

# A Complete Bibliography of Publications in *Linear Algebra and its Applications*: 2015–2019

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## Title word cross-reference

<p>(0, 1) [BD19, CR18a, CLT15, CMQV16, GT18, NS15a, NA17, ZM16, dCFF17]. (2, 1, 0) [WG15]. (75, 32, 10, 16) [AM18]. (76, 30, 8, 14) [BPR17]. <math>(A, m)</math> [BSZ18]. <math>(b, c)</math> [Rak17]. <math>(d, k, \delta)</math> [FJ19]. <math>(\delta, \epsilon)</math> [Zha18b]. <math>(e, f)</math> [KC16]. <math>(I - A)</math> [CC18]. <math>(m, m - 1, 0)</math> [HZ17]. <math>(m, q)</math> [BMN16]. <math>(\mathbf{P}^1)^n</math> [LM16a]. <math>(N - 4)</math> [HAM16]. <math>(p, n - p)</math> [PR18a]. <math>(p, r)</math> [AdF19, EJ18]. <math>(v, b, r, k, \lambda) = (10, 15, 6, 4, 2)</math> [Mic16]. <math>*</math> [DI16]. <math>-(1 + \sqrt{17})/2</math> [LM16b]. <math>-1</math> [BK17a]. <math>\{-1, 0, 1\}</math> [JMPS18]. <math>-1 \notin \sigma(S^{-T}S)</math> [GMP16c]. <math>-2</math> [CRS15]. <math>-3</math> [KLY18]. <math>0</math> [BBH16, HL19b, Shi18b]. <math>\{0, 1\}</math> [XLQC16, XCQ18]. <math>0 &lt; p \leq 1</math> [LC19]. <math>1</math> [BBH16, BR17, Hir18, HL19b, KY18,</p>	<p>KLW16, MHL15, OP16a, PCI15, Shi18b]. <math>14</math> [Jel18]. <math>2</math> [AKR15, AK16a, AA17, BLdS16, BC15a, BH16a, CP16a, CG19b, CW15a, CL18, CJ17d, DFK<sup>+</sup>15, DHS18, EV15, HPSS19, Hoo19, KLP15, KY15, KY18, KIS18, LY16, LWX17, MMS16, Mic16, ME15, NP15a, OQ18, QKP16, Sam17, STW19, Wan15b, YLT16, ZXW19, ZGW16]. <math>2(n - 1)/3</math> [LS15a]. <math>2n</math> [dlCMP17a, dlCdR17]. <math>2 \times 2</math> [GHK17, GLRT18, KLP18, KM16, She17, Ulu19, UG18]. <math>2 \times 2 \times 3</math> [LS15b]. <math>2 \times N</math> [Sar19]. <math>3</math> [BK17a, BKLP16, CLZ16a, DFK<sup>+</sup>15, HN18, Kal16, Lee15c, LWX17, Sam17]. <math>3 \times 3</math> [BBdH18, HK18b]. <math>4</math> [BDVRT15, KH17, LWX17, SS17a]. <math>5</math> [AMR<sup>+</sup>16, BDVRT15, JMP17, Jør15]. <math>5 \times 5</math> [LS17b, SW18a]. <math>7 \times 7</math> [HLPS19]. <math>9</math> [Kar16].</p>
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$[\mathcal{S}]$  [BGCMASS19].  
 $[x_1, y_1][x_2, y_2] \cdots [x_q, y_q] = 0$  [vWZ17].  $*$   
 $[\text{BCP16}]$ .  $*$  [CP16a].  $o$  [LQL15].  $A$   
 $[\text{BDG15, CLST18}]$ .  $A^{s+1}R = RA^*$  [CLST18].  
 $A_\alpha$  [CLM19b, LHX18, LXS18, LL18b,  
 LWCL19, NPRS17, XLLS18].  $A_\alpha(G)$   
 $[\text{CPR18, NR17}]$ .  $A_q(N, M)$  [Liu16b].  $AB$   
 $[\text{GSW16}]$ .  $\alpha$   
 $[\text{CPR18, FKM17a, FKM17b, GX19, NR18}]$ .  
 $*$  [AG15b, AG20, BBEE18].  $A \rightarrow \text{Tr}(Pf(A))$   
 $[\text{Gir19}]$ .  $AW^*$  [LCLW18].  $AX + YB = C$   
 $[\text{MEMM17}]$ .  $AX - \bar{X}B = C$  [FKS16].  
 $AXA^* + BYB^* = C$  [MEMM17].  
 $AXB - C = 0$  [CGM17].  $B$  [LL15a, NA15].  
 $B(H)$  [AR15b, NP15a].  $BA$  [GSW16].  $\square_q$   
 $[\text{Yan18}]$ .  $B\pi R$  [OP19a].  $c$   
 $[\text{Cha15, CCCNT19}]$ .  $C^*$   
 $[\text{EP18a, LMX19, Mol18b, MEMM17, XF17}]$ .  
 $C_1^\vee, C_1$  [NT17].  $c_2 = 1$  [MMP16].  $\mathcal{B}(\mathcal{H})$   
 $[\text{Tur17}]$ .  $\mathcal{B}_\setminus$  [Sim18].  $\mathcal{C}_\setminus$  [Sim18].  $\mathcal{D}_\alpha$   
 $[\text{DPR19}]$ .  $\mathcal{E}$  [Sim18].  $\mathcal{E}_i$  [Sim18].  $\mathcal{E}_\vee$  [Sim18].  
 $\mathcal{F}_\Delta$  [Sim18].  $\mathcal{G}_\in$  [Sim18].  $D$   
 $[\text{Lin15a, BF15, FMM16, KZ17}]$ .  $D_\nu$   
 $[\text{GGMPC15}]$ .  $\Delta_2 = 0$  [MMP16].  $DL(P)$   
 $[\text{BBFF17}]$ .  $E$  [Sma15, BL18a].  $\ell$  [DDV16].  $\ell^p$   
 $[\text{EE15, EM15}]$ .  $\ell^p(I)$  [Lju15].  $\ell^p(I)^+$  [LD16b].  
 $\ell_p$  [HT18a, Jia15].  $f$  [Nie15b, Vir16].  $F_2$   
 $[\text{CKT19}]$ .  $G$  [BBM19, zSqST15].  $G_1$   
 $[\text{KMS17a}]$ .  $\Gamma$  [LLL17].  $GL(V)$  [Gua18].  
 $GP(n, k)$  [KMM17].  $H$  [CDR18, CS19a,  
 FuKT16, HQX15, HWXC18, LZM16,  
 SWB19, WYLW17, WLWZ19, wXL14,  
 wXZ19, YQS16, ZLLL18, MMV19, MP16b].  
 $H_\infty$  [Ste15].  $H_n^*$  [Gao18].  $I$  [LD17b].  $\infty$   
 $[\text{CGL16}]$ .  $J$  [BFY18, HR17, dICdR17].  $k$   
 $[\text{ACT16, Che19a, DMS19, HHL15, HW15c,$   
 $\text{HSS16a, KNY15, KLW15, KLW18, MM17c,$   
 $\text{Nik16b, NLWJ18, \ddot{O}K18, QH15, Stu17,$   
 $\text{YYQ19, YG15, ZL15a, ZL15b, vDS16}]$ .  $K_2$   
 $[\text{Sin17}]$ .  $K_{2,t}$  [Nik17c].  $K_5$  [SUY16].  $K_{s,t}$   
 $[\text{dFNP16}]$ .  $L$  [Dah15a, BR16a, DPV19].  
 $l^1(I)^+$  [LD17b].  $L^2$  [Fre18, Li15b].  $L^p$   
 $[\text{LNW17}]$ .  $l^p(I)$  [LD17c].  $L_\infty$  [BBMFM17].  $l_p$   
 $[\text{BMN16, LC19}]$ .  $\lambda$  [CM17, EP18b].  $LDL^T$

$[\text{LMS15}]$ .  $LQ$  [GH16b].  $LR$   
 $[\text{Nom15c, Nom16}]$ .  $LU$  [DEH16, SP16].  $M$   
 $[\text{BC16b, GL16, HWXC18, JS16, KLS19a,$   
 $\text{MY16, SH15b, VB18, ZSWB16, ANAPSR17,$   
 $\text{BBMP19}]$ .  $M[[\alpha, \infty); (s_j)_{j=0}^m, \leq]$  [FKMS18].  
 $m_0\lambda(p)$  [EF19].  $M_3(\mathbf{C})$  [YLT16].  $\mathbf{E}^{n+1}$   
 $[\text{Kim15a}]$ .  $\mathbf{F}_\ell$  [SSS15].  $\mathbf{F}_q^3$  [MC19].  $\mathbf{H}_n$   
 $[\text{GLZ16a, GLZ16b, GL17}]$ .  $\mathbf{R}_\infty^4$  [HM16].  $\mathbf{R}^n$   
 $[\text{\AA VAK}^+19]$ .  $\mathbf{Z}_2$  [CR15].  $\mathbf{Z}_\ell$  [TZK17].  $\mathbf{p}$   
 $[\text{Sab19}]$ .  $\mathcal{B}(\mathcal{H})$  [CIMW15].  $\mathcal{H}$  [KSMB15].  $\mathcal{Z}$   
 $[\text{SWB19}]$ .  $\mathcal{I}(\in, \mathbf{F})$  [CCD19].  $N$   
 $[\text{HAM16, AMR}^+16, CILL16, DHS18, FJM18,$   
 $\text{LS15a, TWM16, VGG17}]$ .  $n + 1$  [dICdR17].  
 $n - 3$  [LHH17, MQTW18].  $n > 1$  [AMR<sup>+</sup>16].  
 $n \equiv 2 \pmod{4}$  [Sma15].  $n \geq 3$  [IL17b].  
 $n \geq 4$  [GLZ16b, Gao18].  $n \geq 5$  [GL17].  
 $n \leq 6$  [BCS15].  $n \times n$   
 $[\text{AOK15, Tan16b, Ter18, ZSQZ19}]$ .  $P$   
 $[\text{DLQ18, DdF15, FdC18, NS15b, NS15c,$   
 $\text{BSS17, CL15b, CM16, DV18, EG15, Guo19,$   
 $\text{IL17b, JM16, JLM18, KNY15, LG18,$   
 $\text{Nik17a, WQH19, Wol18}]$ .  $p = 2, 3$  [PR18a].  
 $P^2$  [Kus16].  $P_0$  [DLQ18].  $\Phi_n$  [Ter18].  $\phi_S$   
 $[\text{GMP15, GMP16b, GMP16c}]$ .  $p \in (1, \infty)$   
 $[\text{LD16b}]$ .  $p \neq 2$  [IL17b].  $Q$   
 $[\text{FZwCW16, GK15, NY15, PS19a, Yua14,$   
 $\text{Yua15, ZLS17, ZG18, dFNP16, BT17b,$   
 $\text{CJ17a, CJ15, CJ16a, Ern18, NS17, Nag19,$   
 $\text{NT17, Ter17a, Ter17b, dS18a, dS19a}]$ .  $Q^2$   
 $[\text{Kus15}]$ .  $q \mapsto \hat{q}$  [FKS16].  $QR$   
 $[\text{RBKA16, Saw16, FZwCW16}]$ .  $R$   
 $[\text{SS18, \ddot{O}K18, XFZD17}]$ .  $R^k = I$  [CLST18].  
 $R^{p,q}$  [RAAGA16].  $R_{II}$  [IR19].  $S$   
 $[\text{Bou16a, CCiT18, GMP15, GMP16b, LJJ16,$   
 $\text{dICMP15}]$ .  $S^T S$  [GMP16c].  $\Sigma$  [WLL19].  
 $\sigma(p)$  [BM17c].  $\Sigma_1$  [WLL19].  $\text{sl}_2$  [AC15].  $SR$   
 $[\text{FR16}]$ .  $\star$  [NP15a].  $U(p, p)$  [MY19].  $U_q(\hat{\mathfrak{f}}_{\downarrow 2})$   
 $[\text{Ter17b}]$ .  $U_q(\text{sl}_2)$  [SGH16, Ter15].  $UT_2(E)$   
 $[\text{CR15}]$ .  $\varphi$  [dICMP17b].  $\text{Vir}(a, b)$  [HCS17].  
 $W$  [CF18].  $X$  [PS16, LM17].  
 $X + A^*X^{-1}A = Q$  [Chu16].  $X - A\bar{X}B = C$   
 $[\text{FKS16}]$ .  $y^*f(A)x$  [FM16].  $Z$  [Bal15a, DN16,  
 LLV15, LZM16, OP19b, RT16].  $Z_2$  [Ste18].



$Z_4$  [Mor16b].  $|V(G)| - 2m + 2c(G)$  [zSqST15].  
 \* [DD16b]. **\*-rings** [DD16b].  
**-adic** [BSS17, EG15]. **-algebra** [CILL16].  
**-algebras** [BCP16, CP16a, EP18a, LCLW18, Mol18b].  
**-Aluthge** [CM17, EP18b]. **-approximately** [Zha18b]. **-atomic** [KY18]. **-Bernoulli** [Ern18]. **-Bernstein** [MMV19]. **-Bilocal** [CL18]. **-by-** [AMR<sup>+</sup>16, DFK<sup>+</sup>15, HN18, Lee15c, dICMP17a, dICdR17].  
**-characteristic** [LL18b]. **-chromatic** [KNY15]. **-coherent** [GGMPC15]. **-colored** [Kal16]. **-commuting** [QH15]. **-cones** [IL17b]. **-connected** [HSS16a, NLWJ18, SS17a]. **-connections** [Nie15b]. **-contractive** [LCNZ19].  
**-cospectral** [ZLS17]. **-cut** [Nik16b, vDS16].  
**-cyclic** [MP16b]. **-density** [BDG15].  
**-derivations** [NP15a]. **-designs** [BH16a].  
**-digraphs** [FJ19]. **-dimensional** [BC15a, FMM16, KLP15, HAM16].  
**-divergence** [Vir16]. **-eigenpair** [LLV15].  
**-eigenvalue** [FuIKT16, HWXC18, Lin15a, SWB19, ZG18].  
**-eigenvalues** [CLM19b, HQX15, YQS16].  
**-element** [DHS18]. **-Euler** [Ern18]. **-gons** [VGG17]. **-graded** [CR15]. **-graphs** [BBM19]. **-ideals** [HR17]. **-ifications** [BR16a, DPV19, DDV16]. **-independence** [ACT16]. **-index** [NR18, Yua15, NY15, Yua14, dFNP16].  
**-integral** [PS19a]. **-inverses** [KC16, PCI15].  
**-isometries** [BMN16, BBMP19, CGL16, MMS16, BSZ18].  
**-isomorphisms** [STW19]. **-join** [CDR18].  
**-Laplacians** [NS17, Nag19]. **-less** [FZwCW16]. **-linear** [ANAPSR17, RT16, BGCMAS19]. **-Local** [AKR15, AK16a, AA17, CW15a, CP16a, NP15a]. **-majorization** [NA15].  
**-majorizing** [Sab19]. **-matrices** [AMG19, BD19, CR18a, GT18, NA17, wXZ19, ZM16, dCFF17, Bal15a, CS19a, DN16, GL16, JS16, KLS19a, Kus16, MY16, OP19b, SH15b, SS18, VB18, wXL14, ZLLL18]. **-matrix** [CLT15, CMQV16, NS15a, BC16b, DPR19].  
**-minimization** [LC19]. **-modified** [JM16, JLM18]. **-module** [Gua18, LMX19].  
**-modules** [MEMM17, XF17, Yan18].  
**-negative** [Wol18]. **-norm** [Hoo19, Nik17a, OP16a]. **-norms** [CL15b].  
**-nuclear** [BM17c]. **-numerical** [CJ17a, CCCNT19, Zam19, Cha15].  
**-Onsager** [Ter17b]. **-optimal** [Sma15].  
**-order** [DV18]. **-orthogonality** [KZ17].  
**-partite** [KNY15]. **-permanent** [dS19a].  
**-permanental** [dS18a]. **-point** [KLW16, KLW18]. **-polynomial** [GK15].  
**-positive** [YLT16]. **-potence** [Stu17].  
**-potent** [Stu17]. **-potents** [XFZD17].  
**-problem** [CG19b]. **-Racah** [NT17, Ter17a].  
**-rank** [WYLW17]. **-ranks** [WLWZ19]. **-rays** [Dah15a]. **-Regular** [CLZ16a, MM17c].  
**-resolvable** [Mic16]. **-rings** [BBEE18].  
**-Riordan** [BT17b, CJ15]. **-scalar** [GX19].  
**-scalings** [Kus15]. **-Schatten** [CM16].  
**-Schur** [FKM17a, FKM17b]. **-SDD** [WLL19]. **-semiclassical** [GGMPC15].  
**-semigroups** [AG15b, AG20]. **-set** [DdF15, NS15b]. **-sets** [NS15c]. **-Sheffer** [CJ16a]. **-simple** [PS16]. **-space** [LNW17].  
**-special** [Ern18]. **-spectra** [JMP17, LXS18, NPRS17]. **-spectral** [KNY15, LZM16, LHX18, XLLS18]. **-SSD** [WLL19]. **-stability** [Fre18]. **-Stieltjes** [LM17]. **-subsets** [DHS18]. **-Sylvester** [DI16]. **-symmetric** [BFY18]. **-symmetries** [dICdR17]. **-tensors** [LQL15, DLQ18, HWXC18, KSMB15, LL15a, OP19a, SWB19, ZSWB16].  
**-tessellable** [HPSS19, KIS18]. **-th** [Guo19].  
**-Toeplitz** [AdF19, EJ18]. **-trees** [HW15c, ZL15a, ZL15b]. **-triples** [BCP16].  
**-type** [LJL16]. **-uniform** [YYQ19].  
**-unitary** [CCiT18]. **-universal** [Bou16a].  
**-variable** [KY15, KY18, LY16]. **-vertex**



[TWM16]. **-vertices** [FdC18].

**-Walk-regular** [QKP16].

**0** [BL18b, Zha15a].

**1** [BL18b]. **1-tensor** [BL18b]. **18th** [GPW15]. **19th** [CFH<sup>+</sup>16].

**2013** [GPW15]. **2014** [CFH<sup>+</sup>16]. **2016** [FLVV18]. **2017** [GHPS19]. **20th** [FLVV18].

**436** [Duk15, LT16a]. **437** [Kis15]. **438** [LMO16]. **458** [wXZ19, Yua15]. **463** [EKSV18]. **467** [ZL15a]. **479** [BKSP23]. **486** [AG20].

**501** [GP18]. **502** [Ano16a]. **505** [KHI16a]. **509** [SM18]. **510** [BF17b]. **512** [Bal18]. **513** [LZSD18]. **520** [FJS21]. **521** [LLS17a]. **523** [ASMN17a]. **532** [Hou20, dCDFK18]. **548** [GWL<sup>+</sup>18]. **558** [RB19]. **561** [PW20]. **577** [Ali20]. **582** [KAPS20].

**6** [Bar15, Bru16a].

**70th** [BBF19].

**8** [Tsa16b].

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**978-981-4667-96-8** [Tsa16b].

**978-981-4749-46-6** [Bru16a].

**=** [SM16, SM18].

**A.** [CW18a]. **A6** [Jel18]. **ABC** [Che18c, Che19b, GS19a]. **Abel** [HJW19]. **abelian** [AJ19, TFC19]. **Aberth** [RV18]. **abs** [GBRS15]. **abs-normal** [GBRS15]. **abscissa** [HvdD16]. **absolute** [Eve18]. **absolutely** [AB19, Ege16]. **absorption** [BFM19, JT18a]. **abstract** [CW17, CFM16].

**Accelerating** [Pan15b]. **Accessible** [Lax16]. **according** [BDS15]. **accretive** [GHK17]. **accretive-dissipative** [GHK17].

**accuracy** [KR17, MH15, OZ18, TLL15].

**Accurate** [MMP17, MMV19, OP19b,

SSB15b, BP16b, CLM19a]. **Achieving**

[BH16a]. **ACI** [BC17a]. **ACI-matrices**

[BC17a]. **acoustically** [BKLP16]. **acting**

[Vir16]. **Action** [AM19, AMH11, Fis17].

**Acute** [Wei17]. **acyclic**

[DdF15, Fer15, FKD15, kJ16]. **Adaptive**

[CDTZ15]. **Addendum** [BF17b, RB19].

**adding** [GWL<sup>+</sup>18, GTL<sup>+</sup>18, JST19].

**Additive**

[BFMK18, LL17, LY17, PZ17a, QH15].

**additivity** [ACM15, DFM17]. **ADI** [RW16].

**ADI-like** [RW16]. **adic** [BSS17, EG15].

**Adjacency** [CR17b, Ore16a, Ore16b,

ARS16, AGH17, BK15, CLR<sup>+</sup>18, LL15c,

Moh16, Pea15, SY15, Shi16a]. **adjoint**

[AG18, GG18, KNR18, MY19, Nag15,

Nie15a, Pan19b, PM15b, Shi16f, WHC17].

**adjointable** [AG15b, AG20, XF17].

**Adjusted** [UM16]. **admit** [JT18b, Stu17].

**admitting** [Hua15]. **AE**

[Hla15, LX17, Li19, RW17]. **Affine**

[DA19a, dSP16a, Zue18, LT19a, Ma16,

Pan15b, PB16, STZ15]. **after** [Xu17b].

**again** [Pan15a]. **ahead** [UZ19]. **AI** [Nie19b].

**AI** [Fis17]. **AI-Mohy** [Fis17]. **Albert**

[VF17]. **Aleksandrov** [Geh15]. **Alexander**

[KL18a]. **Alexandrov** [Ost15]. **Algebra**

[ASMN17a, Ali20, Ano16a, AG20, Bal18,

BMVW16, BF17b, BKSP23, Duk15,

EKSV18, FJS21, GP18, GWL<sup>+</sup>18, GHPS19,

Hou20, KAPS20, Kis15, KHI16a, LMO16,

LT16a, LLS17a, LZSD18, PW20, RB19,

SM18, Tsa16b, wXZ19, Yua15, ZL15a,

dCDFK18, AHV19, Bal15b, BS15a, CCiT18,

CILL16, CK15a, Chi18, CW16a, CD16d,

CLLS19, Dog18, DR17, DK18, FJP15a,

FJP15b, GM16b, HCS17, Hol16, KS17,

KY17, KMS17b, LMS16, Li19, LHG15,

MMP16, Mor16b, Mos17, MP15a, MP19,



Niv15, Olk15, Pas19, PS18b, RLP19, SGH16, SB15, Ser15, Ter17b, UG18, Wan19, dIP18].

**Algebraic** [BJ15, CCGV<sup>+</sup>19, EHK16, Oi19, PS19e, Sch17, AAMM18, Alf18b, BD15a, BBEE19, BB16a, BGCMPB15, BGdCCMSS17, BS18b, CN17b, Das18, DP16, DPJ17, DD17c, GMW18, GL16, KS19, Kol15, NT19, NR16a, PMB15, PRS18, RRV15, UM16, Zas16, Zha17, DP15b].

**Algebraically** [KQZ16, DB19a, LS15b].

**Algebras** [CRVSS19, AM15a, AEV16, ALH15, AEV15, AKR15, AK16a, AK16b, BZ16a, BKRE18, BY19, Bal17a, BES16, BGV17, BC15a, BdlCL17, BCS15, BCS16, BLdSV19, BP19b, BFD18, BBS16b, Bre17, BS19c, BCP16, Bur18, CP16a, CMV16, CMV17, CKM19, CLOK13, CPS17, Cha15, CW15a, CL15a, CR18b, CDTZ15, CME18, Cos19a, Cos19b, CDH18, DIR16, Der19, DKNS16, DOR16, EL16, EP18a, EF17, EF19, FKPS18, GGH15, Gol16, Gon15, Gow17, GJ18, HA15a, HAM16, HA16, Hou15, HZ19, JG16, JG17, KKO15, KLP15, KM15b, KSTX15, KLL17, LMO16, LL19, LT16b, LZ16c, LZ17c, LGZ18, LCLW18, LZ15e, MR17a, MI16, MI17, Mol18b, Mon19, MX16, NINS16, OW17, Oi19, Pel17, PR19, PR18b, Rai19, RE16, SBB15, SY15, Shi16a, TW16, Tom15, Wan16c, WZ17b, WFS19, Xu17a, ZK17].

**algebras** [Zha17, Zus17a, Zus17b, vWZ17].

**algorithm** [AAG<sup>+</sup>18, Ais18a, Ais18b, BDK<sup>+</sup>17b, CLM19a, CKM16, DD17c, Fay18, Fis17, FKM17a, FKM17b, GCC18, Kwo16, LLL17, LC19, Miz16, Pan15b, RKT15, SZ17, Yin19, CA18].

**Algorithms** [Ano16a, BMVW16, KLS17, Per18, SdJY<sup>+</sup>16].

**Aliasing** [BMS15].

**ALIF** [CGSC19].

**allow** [LP15].

**Almost** [SW16, VQ19, CS15b, Pol19, WHG17].

**almost-equidistant** [Pol19].

**Almost-invariant** [SW16].

**Almost-nonsingular** [VQ19].

**along** [Nag19].

**alternate** [GL15a, NAS18].

**Alternating** [BD19, FGH<sup>+</sup>15, HS16, Kob17, Pan15b, dSP16a, dSP16d, dSP16e, Ter18].

**alternative** [Koz16].

**Aluthge** [CM17, EP18b].

**amenable** [NINS16].

**American** [Zha15a].

**among** [BS18b].

**analog** [MM19b, Nie19a].

**analogs** [HT18a].

**analogue** [GKR16].

**Analogues** [MP17, AJ19, LN17].

**Analysis** [Ano16a, BMVW16, Tsa16b, AL16, BZ16b, CL19, CN19a, CA18, CGSC19, GZB19, GCC18, GCQX15, JLT17, Kir15, KIS18, KLS17, MM16a, MP17, Miz16, OZ15b, SNP16, See18, SLY17, Bar15, Bru16a].

**analytic** [JLM18].

**analytical** [GS18].

**Analyticity** [DvSW18].

**ancestral** [ADW19].

**Ando** [Ric19, Wad18].

**angle** [LMX19].

**Angles** [CPZ16a].

**angular** [CS15a].

**anisotropic** [AL16].

**annihilating** [NN19b].

**annihilator** [HAM16].

**anomaly** [Zim15].

**ansatz** [FS18a].

**antecedents** [Bar19].

**anti** [AyLPS18, AT15, BF19a, DDSC<sup>+</sup>16, FT18, GJK18, MV16, YWD16].

**anti-banded** [BF19a].

**anti-circulant** [AT15].

**anti-community** [FT18].

**anti-negative** [GJK18].

**anti-reflective** [DDSC<sup>+</sup>16].

**anti-regular** [AyLPS18].

**anti-triangular** [MV16, YWD16].

**anticommuting** [Hru16].

**antinegative** [DO16].

**antiperiodic** [GM15].

**antipodal** [Fil18].

**Anzahl** [GL15b, GL15a].

**Apartments** [Pan17, Pan16b].

**Appl** [ASMN17a, Ali20, Ano16a, AG20, Bal18, BF17b, BKSP23, Duk15, EKSV18, FJS21, GP18, GWL<sup>+</sup>18, Hou20, KAPS20, Kis15, KHI16a, LMO16, LT16a, LLS17a, LZSD18, PW20, RB19, SM18, wXZ19, Yua15, ZL15a, dCDFK18].

**Application** [AMH11, Abi19, AO18, ACM17, BM16a, BFMK18, CRX15, DGGP18, DHW18, FBH19, FL15, GK15, KVP19, PHW16, RGP16, Ste15, YYSX19, BTN<sup>+</sup>18].

**Applications** [APR<sup>+</sup>17, Ano16a, BMVW16, DH15, He16a, PCI15, AAG<sup>+</sup>18, AM16a, ANP16, AL19a, BBM19, BKNS17, BJKR17,



BDDO16, BBP19, BR16b, Bri17, Bur18, CDR18, CDG16, CPZ16b, CIY15, CLS18, CJ15, CJB18, CSW17, Chu16, CJ16d, DR16, DLQ18, FSSW17, GZB19, GHT16, GL15b, HM17a, He16b, Hua19, HC19, KC16, KKL<sup>+</sup>17, KK18, LCL15, LCWZ19, LLSX15, Lin15c, Lop17, MVPST19, MM16a, MMP17, MMV19, Mel16a, MNT19, MO18, NSCV16, PS19d, SSCS16, SSB15b, Wan16a, Xu17a, Zou17, Tsa16b]. **Applied** [Bru16a, LNT16c, Ser16, War17]. **approach** [ACPR15, BKLP16, BF19a, BBT15, BDP<sup>+</sup>18b, CC17a, CLLS19, FKM17a, FKM17b, GS18, HW16, JS18a, KÖ16, Mar15b, MR19, NN19b, Ota15, Per18, SZW16, XvdBvdLS15, YDHX18]. **approaches** [LMM<sup>+</sup>16]. **approximability** [KU16]. **Approximate** [CSW17, CKM16, PSM18, SLY17, AEV16, ACM17, FG17, dMGC19, KMOR19, LUC19, WZL17]. **Approximately** [Man19, Zha18b]. **Approximating** [Alo15, GKS19, BDK<sup>+</sup>17b]. **Approximation** [FK18, Bob16, CCO15, Gar17, GH17, GS19b, GCC18, JMRV16, KLL16, LL16b, PQY15, PW18, PHW16, RRT16]. **approximations** [BHK16, LS18b, OZ18, SZ19]. **Araki** [Hia16b]. **Arbitrary** [MI16, BCS16, BNST17, BC17a, CMV16, DDCY17, GLAdS19, GM19, HA15a, KSVW17, MM17b, OvdDV17, Wan15b]. **arc** [XSW19a]. **Archimedean** [ABG16a]. **arcs** [ZD16a, ZD16b]. **arising** [HvdD16, NT18]. **arithmetic** [IKW16, Zou17, Zou19]. **arithmetic-geometric** [IKW16, Zou17, Zou19]. **Arithmetical** [CV18]. **Arnold** [Lin16a, SS17a, BSS17]. **Arnoldi** [BMS16a, MP18]. **Aron** [KVP19]. **arrangement** [AB17, BS19a]. **array** [Bar19, YDYY18]. **arrays** [Bar16a, CW19, CJ17b, CS18a, He15, HS16, He18, KZ17, MMW17, WZ19, YDHX18, Yan16]. **arrowhead** [SSB15b]. **artifacts** [BL15]. **Artin** [SB15]. **aspect** [CS18a]. **aspects** [BC16b]. **assignment** [Bil19, RKT15, WZ17a]. **Associated** [XvdBvdLS15, ABP15, AG15b, AG20, Bal15c, BM19b, CCiT18, CEM15a, CLT15, CKS16, CJ16a, CN17b, FWB<sup>+</sup>19, FBH19, FX19, GL16, IHM08, LG18, Mon19, PR19, Pop16a, RMP18]. **Association** [WG15, BM19a, CHJM18, CGGV15, Han19a, Mor16b, MX16]. **associative** [AA17, Pel17, Zus17a]. **assortativity** [EB17]. **assuming** [LMS16]. **asymmetric** [CLHL15, FI16]. **Asymptotic** [CLR16, iT16, VG18, BÓ15, CUPW15, De 16b, Gar17, KLS17]. **asymptotically** [Dal17a]. **Asymptotics** [BGS15, BGM<sup>+</sup>19, MNT19]. **atomic** [KY18]. **attain** [CR19a]. **attainment** [SPH15]. **attenuated** [Liu16b]. **attractive** [SH15b]. **Audenaert** [Lin16c]. **augmentation** [PZ17a, PS18a]. **augmented** [Mas17, Ste15]. **autocovariance** [CIY15]. **Automatic** [DA19b]. **automorphic** [GPI18]. **automorphism** [FKS16, HA15b, TZ19]. **Automorphisms** [CD16d, AK16a, CW15a, Cos19a, CDH18, Wan15a]. **autonomous** [SSF16]. **autoregression** [FK18]. **average** [Das18, KLL17]. **AVMM** [BT17a]. **Avoiding** [KN16]. **Avram** [BEF16]. **aware** [Tyg19]. **B** [AMG19, DGP<sup>+</sup>15, MR19]. **B-splines** [DGP<sup>+</sup>15]. **backtracking** [AGHN18]. **Backward** [BCMASS15, Ma15, MP18]. **Baer** [BBEE18]. **balance** [CRRY15]. **balanced** [Mic16]. **balancing** [Zha15c]. **Ball** [MM16a, Dym16]. **balls** [Jia15]. **Banach** [AHV19, BM17c, BBS16b, CG19b, CDFK19, DK18, JC18, KVP19, KL19b, Mos17, NINS16, NP15c, PMW19, Pop16b, SPBB19, SB15, SBB15, XS17]. **band** [BGS15, CG15]. **banded** [BF19a, LDL18]. **bandwidth** [LDL18]. **Bannai** [WHG17]. **Bannai/Itô** [WHG17]. **Bapat** [Lin15c]. **bar** [Alf15, KS15b]. **bar-joint** [KS15b].



**Barabanov** [GMW18]. **Bartholdi** [TH16a]. **barycenter** [HL17a, HL18, KLL16]. **barycentric** [EG19]. **base** [BS16e, CDR<sup>+</sup>19]. **base-orderability** [BS16e]. **based** [Ais18a, AM16b, BL15, BB18, BKLP16, CIY15, DGM<sup>+</sup>18, DV19a, FT18, GCC18, MHA18, RD15, RMKJ18, RBKA16, RW17, Som17, SZW16, VT18, WG15, WL16, XXZ16, wXL14, wXZ19, ZD15, ZZR15]. **Bases** [Shi15, BDP<sup>+</sup>18b, DA19b, DA19a, DA19c, VD18, DPV19, DV19b, FS17a, HHR16, LS17a, MP16a, MB15, PM18, Rai19, Szá16, DDMV16, DDV16, WZW19, War17]. **Basic** [CKM19, SSS15, Ste15]. **basis** [AC15, DMQ19, Hür15, JMPS18, Lax16, MI16, You15, YMZ19]. **Baxter** [SS18]. **Bayesian** [RH15]. **BCCB** [Kar16]. **be** [Nom16, dCdSA15]. **behavior** [AB15a, Tab16, VG18]. **behaviors** [BMO15, Obe16]. **behaviour** [BCF<sup>+</sup>18]. **Belgium** [FLVV18]. **Belitskii** [CXLF16, CNX17]. **Bell** [ZSQZ19]. **benefits** [LMS15]. **bent** [ÇMP18]. **Bergman** [Lee19a]. **Berner** [KVP19]. **Bernoulli** [DTZ16, Ern18, He16a]. **Bernstein** [MP16a, MMV19, YMZ19]. **Bessel** [JC18]. **Best** [KRZ<sup>+</sup>17, BaHOS15, GH17, dMGC19, GCC18, Reb19]. **Bethe** [KSTY18, SdJY<sup>+</sup>16]. **better** [OZ18]. **between** [AJO15, BBM19, Bar17b, Bün17, CCW16, CDM19, CVV19, DM16a, DS17a, DMG17, DdFR16, EG19, HS19b, LL16a, LS19, LHL18b, MSSZ17, Min17, Mol18b, Obo19c, PMW19, RS17a, TW18a, WDFS17, Zui17]. **Beurling** [AS17]. **Beyond** [Nik16a, Fie15a, KL18a]. **Bezout** [BS19b, ACDT<sup>+</sup>15, Kwo16]. **Bezoutian** [Ota15]. **Bhatia** [DDF17a, Kim18, Lin17b]. **bi** [LMR16]. **bi-infinite** [LMR16]. **biased** [RBKA16]. **BIB** [HMS17]. **bicolored** [CD16c]. **Bicyclic** [BSP18, BBC18, LWX17, OQY17]. **Biderivations** [LGZ18]. **Bidiagonal** [FN17, MM16a, AAG<sup>+</sup>18, Hua15, MMP17, MMV19]. **bidiagonal-type** [Hua15]. **bidual** [KVP19]. **bijection** [Ter18]. **Bilinear** [CG19b, HSTW17, AAdFS19, DPS19, FM16, GLW17, Mar18, MdIP16, dFFRS17, CA18]. **Billiard** [Yan16]. **Bilocal** [CL18]. **Binary** [HI16, MBB<sup>+</sup>18, TVD15, Alo15, BS18b, CD16c, GCQX15, KM18, PS18a, Sei18, Tok17, Yor17]. **biography** [Olk15]. **bipartite** [BN17, DMS19, FuIKT16, GSZ16, HLSP17, HLW15, JKS15, uIKF15, LN17, aLwW15, MMP16, MM17a, MHN18, PS15, SZ17, Sim18, Sim19, VSV18, WHG17, WZL15, Zaj19, ZG18]. **bipartiteness** [RMS16]. **bipartitive** [BmBCC17]. **bipolar** [GM17]. **Birkhoff** [AR15b, CQCZ19, DDCY17, DD16a, DD19, DU16b, DKPU18, Fer15, kJ16, KL19b, PSG16, PSM18, PMW19, SPH15, VB19]. **Birkhoff-James** [KL19b]. **birth** [CLM19a]. **birthday** [BBF19]. **bisexual** [DOR16]. **Bishop** [DGK<sup>+</sup>17]. **bisolvents** [CP17]. **bisymmetric** [JS15, SW18b, SW18a]. **biunimodular** [FR15]. **bivariate** [Liu17, Ple17]. **Blaschke** [DGSV17]. **blind** [Win16]. **Block** [AMNR18, DPV19, ELN18, FS18a, APT17, AL19b, BJ16, BDLM16, BFD18, BDFR15, BDP<sup>+</sup>18b, CL19, CGMSR15, Cho17b, dMGC19, GHK17, GLRT18, Had17, Hay19, KS15a, KLL19, KL17, KM16, Lee15a, LZ17b, LGZ18, LSM16, MV16, Mas17, MN19a, Mic16, NZZ15, Nie19c, NK18, PCL15, PQY15, RRT16, SNDM17, SP16, Sot17, Ulu19, You15, YWD16, Zha19a, SK17a]. **block-augmented** [Mas17]. **block-matrix** [Hay19]. **block-monotone** [Mas17]. **block-shift** [APT17]. **block-symmetric** [BDFR15]. **block-term** [dMGC19]. **block-Toeplitz** [BDLM16, NK18]. **block-triangular** [BDLM16]. **blocked** [SY16b]. **blocks** [AMNR18, Hir18, Kal16, Sot17, Ulu19].



**blow** [LM16a]. **blow-up** [LM16a]. **Board** [Ano18-27, Ano18-28, Ano18-29, Ano18z, Ano15a, Ano15b, Ano15c, Ano15d, Ano15e, Ano15f, Ano15g, Ano15h, Ano15i, Ano15j, Ano15k, Ano15l, Ano15m, Ano15n, Ano15o, Ano15p, Ano15q, Ano15r, Ano15s, Ano15t, Ano15u, Ano15v, Ano16b, Ano16c, Ano16d, Ano16e, Ano16f, Ano16g, Ano16h, Ano16i, Ano16j, Ano16k, Ano16l, Ano16m, Ano16n, Ano16o, Ano16p, Ano16q, Ano16r, Ano16s, Ano16t, Ano16u, Ano16v, Ano16w, Ano16x, Ano16y, Ano17a, Ano17b, Ano17c, Ano17d, Ano17e, Ano17f, Ano17g, Ano17h, Ano17i, Ano17j, Ano17k, Ano17l, Ano17m, Ano17n, Ano17o, Ano17p, Ano17q, Ano17r, Ano17s, Ano17t, Ano17u, Ano17v, Ano17w, Ano18a, Ano18-30, Ano18-31, Ano18-32, Ano18-33, Ano18-34, Ano18-35, Ano18-36, Ano18-37, Ano18-38, Ano18-39, Ano18-40, Ano18-41, Ano18-42]. **Board** [Ano18-43, Ano18b, Ano18c, Ano18d, Ano18e, Ano18f, Ano18g, Ano18h, Ano18i, Ano18j, Ano18k, Ano18l, Ano18m, Ano18n, Ano18o, Ano18p, Ano18q, Ano18r, Ano18s, Ano18t, Ano18u, Ano18v, Ano18w, Ano18x, Ano18y, Ano19a, Ano19-27, Ano19-28, Ano19-29, Ano19-30, Ano19-31, Ano19-32, Ano19-33, Ano19-34, Ano19-35, Ano19-36, Ano19-37, Ano19-38, Ano19-39, Ano19-40, Ano19-41, Ano19-42, Ano19-43, Ano19-44, Ano19b, Ano19c, Ano19d, Ano19e, Ano19f, Ano19g, Ano19h, Ano19i, Ano19j, Ano19k, Ano19l, Ano19m, Ano19n, Ano19o, Ano19p, Ano19q, Ano19r, Ano19s, Ano19t, Ano19u, Ano19v, Ano19w, Ano19x, Ano19y, Ano19z]. **boards** [War17]. **Bohnenblust** [CJRMF<sup>+</sup>15]. **Bohnenblust-Hille** [CJRMF<sup>+</sup>15]. **Bollobás** [DGK<sup>+</sup>17]. **Book** [Bru16a, Tsa16b, Zha15a]. **Boolean** [ABC<sup>+</sup>16b, Kim15b, PS18a, PRS19]. **border** [Zui17]. **bordered** [DE15]. **borderenergetic** [DLG16]. **Bordering** [OvdDV17, CN17a, CN17b, CN18]. **borderline** [FM19b]. **Bott** [KC16]. **bottleneck** [Mol18a]. **bound** [ARR18, AL15, ARS17, BL18a, Bal15c, Ber18, BH16a, CLF18, GRS15, HW15b, IL17a, LCWZ19, LwW16, Mol18a, Obo19b, Vec16, WF19, Xu17b, ZWS18]. **boundaries** [AGV17, BS18b]. **Boundary** [CN19b, BL15, CN15, DDSC<sup>+</sup>16, EHK16, EH18, GM16a, HJW19, Piv19, YLB15]. **Bounded** [Pan19a, AB19, CM19, DDL17, DD17b, GSP16, LT12, LT16a, LZ16c, PSG16, PSM18, dSP16a, dSP16c, dSP16d, Pep17, RMS16]. **Bounding** [Sta19, AO18]. **Bounds** [ALMZ<sup>+</sup>19, DdSJdFDV15, FW17, Gil16, HHL19, HMNP15, Lia17, LL18a, Mel16a, OP16a, Pep17, Rum19, VV18, WM17a, dIPJG18, ACT16, AR16, ACRR15, AGRR16, AdFRR18, ADLR19, AP15a, BG15, BaHOS15, CR19b, bCR18, CLL15, CIY15, CL17b, CLS18, CJ16c, CJ16d, DHHZI19, DV19a, DR18, DM18, Drn19, EA17, GM17, IGW17, Ken16, Lan15, LLV15, LWY16, LZM16, Lot15, MR17b, MS17b, MHS15, OVW18, Rod19, SZ23, SK17b, Sku17, TLL15, TWM16, WZL17, WLL19, WZW19, WWC18, YZL15, vDS16, ELN18]. **Braess** [HK19b]. **Brauer** [BJLD17, DLB18, LL16a]. **Brauer-type** [BJLD17, DLB18, LL16a]. **Bregman** [MPV16]. **bridge** [CDM19]. **bridging** [LS17a]. **Brill** [Gua18]. **Brouwer** [GP18, Che18b, Che19a, GAP16, HT17]. **Brown** [BŠS18]. **Brownian** [MMS16]. **Brualdi** [BWSZ15b, LL16a]. **Brualdi-type** [BWSZ15b, LL16a]. **Bruhat** [dCFF17]. **Brunn** [Liu16a]. **bundles** [DFK<sup>+</sup>15, EM16, Gal17]. **Bures** [Mol18b]. **Butson** [EC19]. **butterfly** [LZSD17, LZSD18]. **butterfly-like** [LZSD17, LZSD18]. **C** [COS18, BCP16, CP16a]. **cactoid** [HC15]. **cactus** [Gal17]. **cages** [Fil18]. **cake** [CA19]. **calculation** [PW18]. **calculus** [Nev18]. **CAM** [Bru16a]. **Cambridge** [Bar15]. **Can**



[dCdSA15, Nom16]. **CANDECOMP** [KL18b]. **CANDECOMP/PARAFAC** [KL18b]. **Canonical** [BBdH18, DD17c, LS15b, AEKP16, BTW16, BGSS18, CXLf16, CNX17, CW17, DFK<sup>+</sup>15, FdC15, GLAdS19, MN19b, Rad17]. **Carathéodory** [BFMK18, IL17a]. **cardinality** [CRVSS19, MMR17, Yor17]. **Carlen** [Bek16]. **Carleson** [DPS19]. **Carlitz** [KT19]. **Carlo** [WC15]. **Cartan** [HL17a, HL18, KLL16, LL19, MM19a, PR19, WZ17b]. **Cartesian** [BK19, KMY15]. **case** [ACS19, Bar17a, BDK<sup>+</sup>17a, DV19b, EHHL17, IHS16, Mat15a, Pan15b, ZHC16, dFRS16]. **cases** [MP17]. **Catalan** [HS17, YDHX18]. **category** [MVPST19]. **Cauchon** [AAG<sup>+</sup>18]. **Cauchy** [JM16, JKP16, Kal18, LL16b, Lyn15, MMP17, Mel16b]. **Cauchy-like** [Mel16b]. **causal** [FKD15]. **Cayley** [AT15, BBM19, BBS16b, CFH19, KM15b, KLW15, LZ15d, RB16, SLY17, TFC19]. **Cayley-type** [RB16]. **cell** [KT15]. **cells** [GMLT19]. **Central** [Yin18, BDDO16, EF17, EF19, Lék16]. **centrality** [AM16b, BFM19, HKS19]. **centralizer** [AGP<sup>+</sup>17]. **centralizers** [Han19a, dCDFK17, dCDFK18]. **centralizing** [Wan16c]. **centrally** [Mig16]. **Centrosymmetric** [JRS19, Bur15]. **certain** [AKYD16, Ege16, EEV17, FKPS18, Hia16a, Joe16, JMP17, Kol15, KLW18, Lin17a, Liu18, Lot15, Mol19, NP15c, PP18, Sch17, Shel17, Tab16, VHB18, vWZ17]. **certificate** [CJ17c, Dic19]. **Cesàro** [AB19]. **chain** [AAS16, BK17c, Cho19, WC15]. **chains** [BLPT15, BCF<sup>+</sup>18, Hun16, Hun18a, Hun18b, JLT17, LZ15a, Mas17, MP16b, NP15b, SY16a, Sku17, Ter18, VB18, Vas15]. **Change** [DFK<sup>+</sup>15, JST19, VSV18]. **changing** [GM15, SV17]. **channels** [FL16, HJ19, LPPZ19, Lev18]. **chaos** [BCMASS15]. **character** [Che15b]. **Characteristic** [AW15a, BLdS16, Ben18, BCS16, BBFF17,

BCF<sup>+</sup>16, CCD19, CK15b, EV15, FOvdD16, FMR18, HY18, HZ19, HZ17, KMS17b, LL18b, MW15, MMR16, MMR17, MMR18, Niv15, Shi16f, WW18, WLWZ19, ZGW16]. **characteristics** [AKPS19, JKKL15, KAPS20, Koz16, MNTX16]. **Characterization** [BJKR17, DP16, GLZ16a, GSSvdD16, HT18b, JT18b, Kim15b, LD16a, MWT16a, QH15, RW17, Wój19, ZXW19, Abi19, CRRY15, CLR<sup>+</sup>18, DGCC16, DP18, DP15b, DPJ17, IFwW16, GGMP15, GH16a, GX17, HvD18, HJW19, Hoa15, KY18, LZSD17, LZSD18, LWCL19, MHL15, MM16b, NS18, PP15, SW18a, zSqST15, TSH16, WM17b, XvdBvdLS15, YCL17]. **Characterizations** [HM17a, Mol19, RS17b, AyLPS18, ABDN18, BP15, DDF18, He15, He18, LL15b, LWC18, SBB15, Sol19, UYY17, WZ15, ZSWB16]. **Characterizing** [BDMB19, CJ16c, FMR19, LZ15b, HK19a]. **characters** [AR15a]. **Charles** [Bar15]. **Chebyshev** [Guo19, KMM17, Yam15]. **Chevalley** [MMR18]. **Chief** [Ano18-44, Bru15, Bru16b, Bru17]. **Chip** [BMZB18]. **Chip-firing** [BMZB18]. **Choi** [GKR16]. **Cholesky** [LWY16]. **Cholesky-like** [LWY16]. **Christoffel** [AM15b]. **Chromatic** [KM19, AL15, FCL<sup>+</sup>16, KNY15, Tom15, vDS16]. **circle** [Cas19, IR19, MS15a]. **circles** [Rum19]. **circuits** [MT15]. **circulant** [AT15, AMNR18, Hil17b, Joe16, KK17, Lee19a, NW19, Nie19c, PSZ15, PS18b, QWC15, RR18b, San15, San18, SB18, TG19]. **circulants** [DM16b, Sbu17]. **class** [ASMN17a, ASMN17b, AMR18, AMG19, BG15, BPP16, BR16a, BHP17, CX17, Chu19, CM16, FPGPV17, Hou15, HSTW17, JLM18, uIKF15, KY18, LDL18, MI17, Min17, Mir18, Nob16, ÖK18, Ris16, RBKA16, Sam17, XXZ16, ZD15, Zhu19]. **classes** [AG15a, CHJM18, DGS18, EC19, Egg15, ETF18, Far19, FMR19, Gre18,



GJLS16, LCF19, MR17a, Mar15a, Pan19b, Pel17, Rob19, Sha16, SS18, VLGS15, Ye17, ZM16, dSRST17]. **classical** [HLG15, OVW18, Ota15, Saw16].  
**Classification** [AMC18, BKRE18, BCS15, CMV17, CLOK13, DdFR16, EEV17, HA16, LMO16, LZ16c, MSSZ17, RE16, SWZ18, GSZ15, GSZ16, Gas19, HAM16, Sim18, YdB19, dFRS16, dFFRS17]. **classifying** [BP19b, FKPS18]. **clean** [BM16b]. **Clifford** [CK15a]. **clique** [FHJT19, HFS15, Yus17]. **clique-width** [FHJT19]. **close** [BCF<sup>+</sup>18, BaHOS15]. **Closed** [DKSV19, AYK17, Bie15, LS15b, LMX19, XS17]. **closest** [KT15]. **Cluster** [TLL15]. **Cluster-robust** [TLL15]. **Clustering** [BCF<sup>+</sup>18, EB17, Bai18, Est16]. **clusters** [CR17b]. **clutter** [MFdM15]. **CMV** [MS15a]. **Co** [Bru16a, Tsa16b, Alf18b]. **co-rank** [Alf18b]. **coadjoint** [BC15a]. **coarse** [KN16]. **cocycle** [Ong18]. **code** [LA16]. **codes** [AGP<sup>+</sup>17, ANP16, BDMB19, CG16, CG19a, CLHL15, CMPZ18, DGGP18, GZ19, GR16, La 16, LCF19, Ouy17, Pud16, SSS15, TZK17, TZ19]. **codimension** [MS19, RZ17]. **coefficient** [BDDSC17, PRS18]. **coefficients** [BS15c, BF17a, Ben18, CLR<sup>+</sup>18, JLM18, LG18, Sug17, TH16a, WZZ19]. **Coffey** [SSCS16]. **cognitive** [Dog18]. **Coherence** [CKL17, RGPH16]. **Coherent** [DD16b, GGMP15, Xu17a]. **Cohomologically** [BCS16]. **Collatz** [GH16a]. **collections** [HJ16]. **Collocation** [JKP16]. **Collocation-quadrature** [JKP16]. **color** [AT15]. **colored** [Kal16]. **Colorings** [KL18a]. **colourful** [BFMK18]. **column** [SS17b]. **combination** [Kis15, XX12, Ziz16]. **combinations** [KP17]. **Combinatorial** [ACD19, Nik17a, BR18, CJ15, CJS16, EJ19, MR19, Ser15]. **Combinatorics** [AMPT16, LMP<sup>+</sup>17, AM16b]. **Combined** [BGG16, Mat15c]. **cominuscule** [MM15a]. **comments** [AdF19]. **common** [CKM16, G6r17, GX16, GX19].  
**communicability** [DHHZI19]. **community** [FT18]. **commutation** [Nie18].  
**Commutative** [BS19b, AM15a, AA17, GPI18, GMM16, KM19, LZ15d, OW17, SNDM17, Ser16]. **Commutativity** [Pan19b, Pie18, SB15]. **Commutator** [GH15, CL17b]. **Commutators** [SB15, CL15b, GW17a, Hou19, XCJ18, dCdR17]. **commute** [BFFN16, Kis15, XX12]. **Commuting** [Bou16b, CKT19, Shi18a, Wan16c, BF18a, BS19c, BKS15, BKPS17, BKSP23, CM19, CJW19, DBK17, FKPS18, GMM19, IKVZ18, KS17, LdlP15, LY17, Mig16, MT16, QH15, Sha16, aHRT15]. **Compact** [ABM16, CN19a, JLM18, LWC18, PS19c]. **compactly** [AKPS19, KAPS20]. **Companion** [EKSV14, EKSV18, BM16b, GSSvdD16, Lee15c, VV18]. **compared** [QKP16]. **comparison** [ABD19, DU16a].  
**Compatible** [BKS15, BKSP23, LT19a, dSP15, dSP16c]. **competition** [FGS<sup>+</sup>16, Kim15b]. **complement** [AG16, AAMM18, CGMSR15, Row18, WYL19]. **Complementarity** [JS16, See18, Bal15a, Bal15b, BP16a, CFNP17, DN16, DN18, WLL19, XXZ16, wXL14, wXZ19, ZZR15, ZLQ16].  
**Complementary** [FJT17, Sz16, CCdFV18]. **complements** [CMM19, LD17a, Row15, YCL17, YZLC18]. **completable** [SMBDK16]. **Complete** [BSMSZ19, HK19b, BK18, BES19, CH15a, CGSZ16, DP18, DD17b, LNW17, NS18, Obo19a, Obo19c, Shi19, VSV18, WYL19].  
**Completely** [Gow16, LT12, LT16a, Sal16, Zha18a, BDS15, GdLL17, SSV17, DDMV16, XLQC16]. **Completion** [Ber17, Dod16, MFdM15, BA15, CMQV16, DH15, Dod17]. **completions** [Cal16, CJ16b, JLD17, PCI15, VQ17]. **Complex** [HP15, LWX17, AM19, AGQ19,



AS17, AP15a, BFY18, BH16a, BSS17, Bün17, CDM19, DL16, ET18, Fik18, FM19b, FKM17a, GT16, Gór17, Hut17, Kar16, Mag16, Mat15a, Nev18, NW19, PM15a, PR19, QWW18, RGP16, SK17a, Tan16b, TCD15, dCMP17a, dCdR17]. **complexes** [LT18]. **complexity** [BC16a, FMY16, HI16, KMM17, RR18a, VGG17]. **component** [FK18]. **components** [BFFN16, CLT15, DDL17, DBK17, ÖK18]. **componentwise** [DS18b]. **Composition** [AL19a, BMN16, HA15b]. **compound** [AGN18, APR<sup>+</sup>17, BSS16, FK18, RS17b]. **comprehensive** [BBT15]. **Compressed** [KKLP17, BÓ15, Fli16]. **compressing** [BE15]. **Compressions** [PS19c, He18]. **computation** [BFM19, CRX15, Hun16, Hun18a, Miy19, Sim19]. **computations** [BP16b, Win16]. **compute** [BV18a, Pas19]. **Computing** [AMH11, BDLM16, DU16a, Eld15, FI19a, Fer15, HR17, Hir18, KL18b, MMR17, Saw16, Fis17, SK17a, SSH15, SZW16]. **Concatenated** [DGGP18]. **Concavity** [Hia16a, FS17b]. **Concentration** [Bar16b, Ngu18, FL15]. **concerning** [AKYD16, Hil15]. **Concini** [FH19]. **Concise** [OBRA15]. **concrete** [Uch15]. **Condition** [ME15, Van17, WYL15, ABD19, Ben16, CC17a, DR16, DS18b, Fli16, LS17b, Nie19b, Sch17, Zim15]. **conditioned** [Bar16b, NSCV16]. **conditioning** [FR16]. **conditions** [Bar17a, CYD19, DDSC<sup>+</sup>16, DD17c, ES16, EH18, FZL<sup>+</sup>17, GM16a, Gu16, Li15a, LX17, LSX15, MPS17, PM15a, ZLG15]. **cone** [Bal15a, BP16a, CCCNT19, CFNP17, FG17, GR15, Gow16, HC19, KOST15, Lee19b, Ser15]. **cones** [BFN15, BMZB18, GP19b, GJ18, IL17b, JG16, JL16b, KLL17, Kut18, Sol18a, Sol19, Zha18a]. **Conference** [CFH<sup>+</sup>16, GPW15, GHPS19, ET18, TG19]. **configurations** [BF19b, FGG<sup>+</sup>18, Xu17a]. **congruence** [BGSS18, BHSS18, DFK<sup>+</sup>15, Dmy16, Dmy19, Egg15, YZZ18, dICF16]. **Congruences** [Sbu17, Sim19]. **coninvolutory** [AMR<sup>+</sup>16]. **conjecture** [AB15a, AKYD16, Bah19, Che18b, Che19a, CL15d, Das18, DDF17a, DK16, eFLYL15, GAP16, GP18, Gho16, GO18, GLMS18, HT17, KM19, Koz16, LOS19, Lin15a, LMP<sup>+</sup>17, Riz19, SY16a, Shc16, XS18, YQS16, AA19, BS16f]. **conjectured** [AL15]. **conjectures** [BCJ<sup>+</sup>16, Das15, TWR15, Zha17]. **conjugacy** [Pan19b, VLGS15]. **conjugate** [DMG17, KR17, Lin15b, Nev18]. **conjugate-normal** [Lin15b]. **conjugation** [Bik19]. **Connected** [LM16c, CLT15, COvdD16, DPR19, DS19c, GWL<sup>+</sup>18, GTL<sup>+</sup>18, HSS16a, JMM16, LLL15, NLWJ18, PS15, SS17a, See18, VK19]. **connectedness** [GJ18]. **Connecting** [ES16]. **connection** [CHB15, DGSV17, RS17a]. **Connections** [GHPS19, CJ17a, Nie15b]. **Connectivity** [ZLG17, AAMM18, Das18, Gu16, HXL19, Kol15, NLW18, O16, Row15, XSW19a]. **consensus** [VK19]. **Conservative** [KLP15, Geh15]. **considerations** [AAC<sup>+</sup>15]. **consistency** [Shi16b, XvdBvdLS15]. **consistent** [BMS15]. **constacyclic** [CLHL15, La 16]. **Constant** [PRS18, BBH16, BC17a, EM16, MMM19, PV17, WDV17]. **Constant-coefficient** [PRS18]. **constants** [BCKL17, Nun17, Reb19]. **Constrained** [CMQV16, DOR16, OS17, Rak17, TD15]. **constraint** [LSM18, MT15]. **constraints** [BT17a, DAG16, LPPZ19]. **construct** [LMPM17]. **constructed** [Mir18]. **Constructing** [CR18a, CJW19, CJ17d, DDV16, WC15, ATM18, BH16a, MLW15]. **Construction** [HHL15, JCW19, LS15c, MM15b, BBM16, CW17, DGGP18, FdC15, Gór17, Hey17, MW15, MR17a, PS17]. **constructions** [FJMP15, GF17, LA16, HL17c, Pud16].



**contain** [FJKM18]. **containing** [AMG19, FJ19, Gre18]. **Contemporary** [Bru16a]. **Continuity** [CG19c, Gol17, AB15b, BP16a, GMW18]. **Continuous** [BS19c, Cos16a, Mas17, ZH17, Zhu19]. **Continuous-time** [Mas17, ZH17]. **Contour** [Wim16, Van16a]. **contracted** [CEM19, XCJ18]. **contraction** [McK18]. **Contractions** [BC15a, LPW16]. **Contractive** [AKS17a, AKS17b, LNW17, LCNZ19, Lin16b]. **contribution** [Geh15]. **control** [Bel16, BTN<sup>+</sup>18, Ste15, BCMASS15]. **controllability** [AG15a, TD15]. **Controlling** [Yas16]. **convection** [BDDSC17]. **convection-diffusion** [BDDSC17]. **Convergence** [CN19a, GCC18, JMRV16, KR17, OZ15b, SSF16, BM17a, BW18, BMS16a, CGSC19, DHW18, GKS18, Guo19, KH17, Sch16, SLY17, ZZR15]. **convergent** [Ais18a, Ais18b, EE16, JCW19, QWW18, Sku17]. **converse** [Lev15]. **Conversions** [EG19]. **Convex** [BKNS17, EE15, Han19b, BGCMASS19, BU18, CW18b, EM15, Eve18, KP17, Naj17, RW17, SXD16, Vir19, WH19b, ZC15]. **Convexity** [Dym16, JK15, LNT16a, Sab16, Bek16, CFL16, FNX19, Kum19, Nor18, Sab18]. **convolution** [ABC<sup>+</sup>16b, Ziz16]. **convolutional** [ANP16, CLHL15, DGGP18]. **convolutions** [RLP19]. **coordinate** [KRZ<sup>+</sup>18]. **coordinatization** [Lax16]. **Copositive** [Hil17b, SM16, SM18]. **copositivity** [Dic19]. **coprime** [AMZ16, Lie18]. **corank** [GSZ15, GSZ16, SZ17]. **corank-two** [GSZ16]. **Core** [EB17, CMV19, HPZ18, HPZ19, JS19, KY18, NW19, WL16, Wan16a]. **Core-EP** [Wan16a]. **core-nilpotent** [JS19, WL16]. **Core-satellite** [EB17]. **cores** [GT17]. **corner** [bCR18, ZMT19]. **corona** [BS17, LJK16]. **coronas** [ABC<sup>+</sup>16a]. **correction** [WP17, Zas16]. **correlated** [Sma15]. **correlation** [CPZ16a, Tab16, iT16, Zim15]. **correspondence** [GPI18]. **Corrigendum** [ASMN17a, Ali20, Ano16a, AG20, Bal18, BKSP23, DIPR18a, Duk15, EKSV18, FJS21, GP18, GWL<sup>+</sup>18, Hou20, Kis15, KHI16a, LMO16, LT16a, LLS17a, LZSD18, PW20, SM18, wXZ19, Yua15, ZL15a, dCDFK18]. **cosets** [LA16]. **Cospectral** [CHJM18, DF16, WQH19, AHMM18, BH16b, Hey17, LMT19, ZLS17]. **cosquare** [GMP15, GMP16b]. **cost** [CYD19]. **Coulomb** [BS18a]. **Coulson** [ALOR19]. **countable** [JLT17]. **counterexample** [Bah19, Shi16c, Shi17a]. **Counterexamples** [SY16a, FJS17, FJS21]. **Counting** [FMM16, Mat15b, PD17, Ram16, VLGS15, GRV16, MT15]. **counts** [KS15b]. **coupled** [HAWM16, Lee19b]. **coupling** [CRC17]. **Covariance** [CLZ<sup>+</sup>16b, GH16b, KRZ<sup>+</sup>17, LHC15, MNT19, iT19, Wan16b, Yin18]. **cover** [PF18, WM17a]. **Covering** [WH19b]. **coverings** [FHH15, MC19]. **covers** [CGSZ16]. **Cox** [Sim19]. **Cox-regular** [Sim19]. **Coxeter** [GSZ15, Gas19, Mró16, MdIP16, Sim18, dIPJG18, dIP18]. **Coxeter-Dynkin** [GSZ15]. **CP** [BDS15, XCQ18]. **CP-plus-rank** [BDS15]. **CP-rank** [BDS15]. **CRAIG** [HKP17, TW16]. **criteria** [DIPR18a, DIPR18b, DFKS17, FKS16, SFW18]. **criterion** [FHS17b, SS15a, Sam17]. **Critical** [BBT15, Gae16, GP19b, DHS18, FCL<sup>+</sup>16, HMPT18]. **crossings** [dS19a]. **Crouzeix** [GO18]. **CS** [CRX15]. **cubature** [BBM16]. **cubic** [CLR19, Jel18]. **cumulant** [OBRA15]. **curvature** [NR16a, Opo16]. **curve** [CN15, LHC15]. **Curves** [Ber18, ÁVAK<sup>+</sup>19, BGCPMB15, CS15a, CN17b, CN19b, LP18]. **cut** [Alo15, CA19, DV19a, Nik16b, WWT18, vDS16]. **cut-norm** [Alo15]. **cycle** [DF15, DF18, DR19, HFS15, Liu15, PF18, WZW19, dS19a]. **cycle-clique** [HFS15].



## **cycles**

[ABDN18, Ash19, GH19, MWT16a, Mac16, NY15, WZZ19, Yua14, Yua15, ZLG15]. **Cyclic** [BGV17, BM18, BMR17, CLUP17, Dal17b, Far16, MP16b, Ziz16]. **cyclomatic** [HHL19, TH17]. **cyclotomic** [CFW15, LA16].

**D** [BKLP16, Sam17]. **DAHA** [NT17].

**Darboux** [AM15b, CG15]. **Dashnic**

[LCWZ19, ZLLL18]. **Data**

[SUBG18, BCJ<sup>+</sup>16, CS15a, CJ16c, HPZ19, KRZ<sup>+</sup>17, KRZ<sup>+</sup>18, MM15b, Wei15].

**Data-driven** [SUBG18]. **Davidson**

[BM17a, WP17]. **Davis**

[ABR18, CJ17a, LSZ18]. **DCT** [BP19a].

**DDVV** [GXYZ17]. **DDVV-type**

[GXYZ17]. **Dealing** [BL15]. **death**

[CLM19a]. **deblurring** [DDSC<sup>+</sup>16]. **Decay** [MR17b, BMR17, PPZ19].

**decomposability** [LL17]. **decomposable**

[CW18b, YLT16]. **Decomposition** [FM19a,

GT16, Hou19, ÁVAK<sup>+</sup>19, BC19b, CRX15, CQCZ19, CP16b, DD17c, DU16b, DKPU18,

Duk12, Duk15, FZwCW16, FR16, FX19, GH16b, dMGC19, GMP15, GMP16b, GM17,

HKM18, HAWM16, Hir18, JS19, KMY15, KL18b, Lop15, MVPST19, MM16a, MMP17,

MMV19, MFdM15, MV16, MMR18, Nie18, Nie19a, RBKA16, Saw16, SP16, SSB15b,

SSB15a, SG17b, Van17, Wan16a, WL16].

**Decompositions** [KK18, Mar18, BBEE18, BFW17, CMV16, CCGO17, FSSW17,

FSW19, Lee16, Nom15c, Ota15, Szá16, Tyg19, Urs18, Ye17, dCMP17b].

**deconvolution** [BL15, Win16]. **decreases**

[JDS17]. **dedicated** [BBF19]. **defined** [He16b, Hon18, HC19, PMW19, Ram17,

Zho17]. **defining** [CR18a]. **definite** [ACM17, BS15d, BJL19, BC19a, BDK<sup>+</sup>17b,

CJ16b, CLS17, Fie15b, GLRT18, HL17a, HK17, KL15, KLL16, LZ17b, LNT16c,

Min17, MS15b, MPV16, PR19, Riv15b, Sch16, SH15b, STZ15]. **definiteness**

[DLB18, HT18a]. **deflated** [KR17].

**deflating** [WZL17]. **Deflation** [LNT16c].

**deformations** [BSS17, Dmy16, Dmy19].

**degenerate** [Bob16, KK17]. **Degree**

[DGM<sup>+</sup>18, Chu16, CW16a, Das18, De 16b, DD17b, DK16, Fer15, NLW18, Sku17,

Wan15b, XWL17, YHY15, ZLS17, ZWS18].

**Degree-based** [DGM<sup>+</sup>18]. **degrees** [BD15a,

DMG17, DV19b, LLS17a, LLS17b, PS19a].

**delay**

[BTN<sup>+</sup>18, FM17, PMB15, SNP16, WZ17a].

**deletion** [VSV18]. **Dellac** [BF19b].

**Demmel** [AGV18]. **dense**

[Dal17a, Duk12, Duk15, FGH<sup>+</sup>15]. **density**

[BDG15, Lie18, Mol18b, SCD17].

**dependent** [DHLT19, GM16a, PCL15].

**depending** [EH18]. **derangement** [MR19].

**derivable** [WMC15]. **derivation** [LZ16c].

**Derivations** [Bre17, Hou15, AKR15, AK16b, AA17, BCP16, CL15a, CL18, EP18a,

LZ17c, NP15a, ZK17]. **derivative** [UUG15].

**derivatives** [Eld15, Gir19]. **derived**

[JLD17, LMR16]. **Desarguesian** [Van16b].

**descent** [VK16]. **descent-like** [VK16].

**descents** [AR15a]. **description**

[BmBCC17, DDL17, Ong18, PS19e, Ser15].

**descriptions** [DSCD17, May15]. **descriptor**

[Mar15b]. **design**

[AKPS19, Bel16, KAPS20, Mic16, RGP16].

**Designing** [Van16a]. **designs** [BMS15,

BH16a, BL16, HMS17, Ma16, Sma15].

**detection** [FT18]. **determinant**

[BDK<sup>+</sup>17b, BR17, Cho17b, Cos19b, DdC16,

GSS15, Hil18, Hol18, HLS<sup>+</sup>16, KMS16,

Rum18, RB19, Rum19, Shi18b, Yur15,

Min17]. **Determinantal**

[LP18, CNY18, CN18, DP18, HII16, LS18a,

MT15, Ple17, dCdSA15]. **Determinants**

[HZ19, Riz19, Sot17, ABO15, BS18a, BK17b,

BaHOS15, BR18, CLLS19, HM16, Sbu17,

Sei18, Zhe19]. **determination** [AAG<sup>+</sup>18].

**determined** [ALH15, BCC<sup>+</sup>18, BSMSZ19,

HNR16, KHI16a, KHI16b, MW15, MLW15].

**detrended** [CIY15]. **Deveci** [CL15d].



**Developed** [DKS15]. **deviation** [DHLT19].  
**DGL** [BBMFM17]. **DGMRES** [GKS18].  
**Diagonal**  
 [AM16a, AMV17, APS18, BBH16, Bik19,  
 BR16b, BMR17, ELN18, Far19, GX16,  
 GX17, HN18, HK18b, Lee15a, Nom15b,  
 PM15a, PPZ19, SP16, SV17, SSB15a, ZH17].  
**Diagonality** [ACM17]. **diagonalizability**  
 [dlCF16]. **diagonalizable**  
 [JLDS18, JKP<sup>+</sup>17, wXjMZL19].  
**diagonalization**  
 [ACM17, CL19, LUC19, cSfCFX15].  
**Diagonally** [Roh18, DM18, HW15b].  
**diagram** [Bal15c, LCF19]. **diagrams**  
 [Sch15]. **diameter**  
 [BK17a, CC17b, CNM19, DBK17, HSS16a,  
 LS15a, Mig16, XWD18, ZLG17]. **Diaz**  
 [MF16]. **dichotomy** [Dra18]. **dicyclic**  
 [CFH19]. **difference** [Dra18, EJ19, PHW16,  
 SNP16, SJD16, Sug17, UWYY15, UZ19].  
**differences** [Cos16b]. **different**  
 [ALMZ<sup>+</sup>19, SY16b]. **Differential**  
 [Gon15, BMO15, HLM17, LMS15, Mat15a,  
 Obe16, PMB15, PRS18, RRV15].  
**differential-algebraic** [PMB15, PRS18].  
**Differentiating** [Hol18]. **Differing** [Dog18].  
**Diffuse** [GHS16]. **Diffusion**  
 [VK19, BDDSC17, CS15a, RW16].  
**diffusively** [Lee19b]. **digit** [JT18b].  
**digraph** [ARR18, BDMB19, HC15].  
**digraphs** [AR16, ARR18, AGH17, DF16,  
 Dal17a, Dal17b, FGS<sup>+</sup>16, FJ19, GLMPC18,  
 GMO19, JL16b, Kal16, LWCL19, LMP<sup>+</sup>17,  
 MS17b, Ost15, SG16, XSW19a, XSW19b,  
 ZSWB16, dS19a]. **Dilations** [BEKS17].  
**dilogarithm** [BV18b]. **dimension**  
 [BCS15, BBT15, CMV16, DD16a, DD19,  
 FI19b, Hol16, IL17b, JKKL15, KS17, MB15,  
 Pas19, SB15, VB19, YT16]. **dimensional**  
 [Alf15, AKPS19, AKR15, AK16a, AK16b,  
 BC15a, BB16a, Ben18, BGdCCMSS17,  
 CMV17, CDFK19, CW15a, CL16, CJ17b,  
 CG19c, Cos19a, EHHL17, EHLP18, ET18,  
 EF17, EF19, FJM18, FMM16, FKPS18,  
 Gol17, HAM16, HA16, IHS16, KAPS20,  
 KLP15, KL19b, KU16, LT16b, LZ15e,  
 MS17a, Min17, NINS16, OW17, Pan17,  
 PMW19, Pel17, QWC15, RE16, Sab19,  
 Vir16, WH19a, Yan18, Yin18].  
**Dimensionality** [BF19c]. **dimensions**  
 [BNST17, CLUP17, bCR18, DDCY17, Fre18,  
 Geh15, PP15]. **dimers** [NS15a]. **Dirac**  
 [FKRS17]. **Direct**  
 [KP19, DSCD17, GF17, KS15a, Xu17a].  
**Directed**  
 [Jør15, ASMN17a, ASMN17b, AM16b,  
 BK17c, CLN15, DL16, Kob17, VK19].  
**directional** [AKPS19, Gir19, KAPS20].  
**directions** [JZ16]. **Dirichlet** [LN18].  
**discontinuity** [CG19c]. **discrepancy**  
 [CLZ<sup>+</sup>16b]. **Discrete** [ACE15, EH18, Lev15,  
 BB18, BPT15, CEM15b, DPJ17, EE15,  
 EM15, FCLP18, GM15, GM16a, GKS19,  
 HM17b, LZQ19, LS18b, LN18, SL16, SH15a,  
 Shi16b, TNK16, ZD15, Zhu19, CGSC19].  
**discrete-time** [GKS19, SL16].  
**discriminant** [Bar16b, HS18].  
**discriminants** [CP16b]. **Disentangling**  
 [ZS17]. **disjoint** [WM17b]. **Disjointness**  
 [LCLW18]. **displacement** [TW18b].  
**dispositions** [LMP<sup>+</sup>17]. **dissipative**  
 [GHK17]. **Distance** [AJO15, AAKS17,  
 BK17a, BF15, CDR18, Che15a, DS17a,  
 LZ16a, LZW17, Obo19a, VSV18, AAB<sup>+</sup>16,  
 Alf18a, AP15b, AB18, BD15a, BG15, BS15b,  
 BS16a, BK19, BGOY15, BF18b, BMS16a,  
 BGT<sup>+</sup>19, CG16, CVV19, Cho19, CGGV15,  
 CHT19, DdSJdFDV15, Das15, DR18, DL15,  
 FdFdSDV18, GK15, Geh15, GLW17, Hey17,  
 HC15, HFS15, KPL18, KHI16a, KHI16b,  
 KT15, KB15, LM16b, LZ15c, LLL15, LD16a,  
 LWCS16, LZ16b, LD17a, LDZ18, LHG15,  
 LHH17, LHL18a, Ma16, MQTW18, MMP16,  
 MM17a, MS15b, Som17, TWR15, TWM16,  
 TW17, TW18a, XSW19a, XSW19b, XS18,  
 ZLG17, ZD16a, ZD16b, Zho17]. **distance-**  
**[BF15]. distance-based** [Som17].  
**Distance-regular**



[AAKS17, BK17a, BF15, CGGV15, GK15, GLW17, LHG15, MMP16, MM17a].

**distances** [CEM19, Ngu18]. **distinct** [AAKS17, BBH16, BDVRT15, BF15, HZ15, HH17, JDS17, LOS19, Mon17, Row16b, Xu17b]. **Distinguishing** [DM15].

**Distribution** [BB16b, DMT16, HMSC19, HLLZ17].

**Distributional** [BCMASS15].

**Distributions** [Jia15, ABvN19, SSF16].

**diverge** [Est16]. **divergence** [Vir16].

**divergences** [Hia19, Min17, MPV16, Vir19].

**divisibility** [AYK17, BC16a]. **divisible** [VB18]. **division** [BZ16a, BKRE18, CKM16, LT16b, Mig16, dSP16b, RE16]. **divisor** [CQ15a, Wan15a]. **divisors** [AMZ17, SJS15].

**DM** [Hir18]. **DM-decomposition** [Hir18].

**do** [CR19a, GL17, Gao18]. **does** [MHL15, Wad18]. **domain** [HR17, Kwo16].

**domains** [BGCMLSSS16, BS19b, CQ15a, Cal16, Ris16, Vol17]. **dominance** [ELN18, Far19, HT17]. **dominant** [DM18, HW15b]. **domination** [Lin19].

**Double** [FM19b, Han19a, LL15a, LMR16, AAC<sup>+</sup>15, He18, PF18]. **doubling** [CLM19a, KLS17]. **doubly** [ATM18, BM18, Ben18, CC19, CQCZ19, Chu15, Dah15a, DU16b, DKPU18, Dya17, Gow17, KRZ<sup>+</sup>17, KRZ<sup>+</sup>18, Lju15, LD17c, NMBA19, Nat19, dCDFK17, dCDFK18].

**Dowling** [LM17]. **down** [LT18]. **Drazin** [QWW18, Rak17, YWD16]. **Drinfel'd** [Yan18]. **driven** [SUBG18]. **Drury** [Lin17b, Nie19a]. **DST** [Per18]. **dual** [BMS15, De 16a, DN18, Fay18, GR15, Gow16, KK18, NAS18, RR18a, Shi16a, DDMV16, DDV16]. **Duality** [NP15b, STW18, WO17, NR16a, RT16].

**duals** [BM17c, ÇMP18, CJ17c, JLD17].

**Ducci** [OZ15a, SB18]. **due** [JST19, Lin15c, Nun17, VSV18]. **Duffin** [KC16]. **Dye** [BL19]. **dynamical** [BBMP19, CNX17, CR18b, DOR16, Hoo19, Kur19].

**dynamics** [BTN<sup>+</sup>18]. **Dynkin** [GSZ15, Sim18]. **Dyukarev** [Riv15a].

**Each** [AMR<sup>+</sup>16, dIC15, dICdR17, GLZ16b].

**Eaton** [Nie19b]. **Edge** [CR17b, O16, OQ18, FCL<sup>+</sup>16, GSZ16, Gu16, NT18, NLW18, PS19a, Row15, SZ17, Sim18, Sim19, VSV18, Yus17, Zaj19].

**edge-bipartite** [GSZ16, SZ17, Sim18, Sim19, Zaj19].

**Edge-connectivity** [O16, Row15].

**edge-degrees** [PS19a]. **Edge-minimal** [OQ18]. **edges** [BL18a, GWL<sup>+</sup>18, GTL<sup>+</sup>18, HK19b, JZ18, JST19]. **edition** [Bar15].

**Editor** [Bru15, Bru16b, Bru17].

**Editor-in-Chief** [Bru15, Bru16b, Bru17].

**Editorial** [Ano18-27, Ano18-28, Ano18-29, Ano18z, Ano15a, Ano15b, Ano15c, Ano15d, Ano15e, Ano15f, Ano15g, Ano15h, Ano15i, Ano15j, Ano15k, Ano15l, Ano15m, Ano15n, Ano15o, Ano15p, Ano15q, Ano15r, Ano15s, Ano15t, Ano15u, Ano15v, Ano16b, Ano16c, Ano16d, Ano16e, Ano16f, Ano16g, Ano16h, Ano16i, Ano16j, Ano16k, Ano16l, Ano16m, Ano16n, Ano16o, Ano16p, Ano16q, Ano16r, Ano16s, Ano16t, Ano16u, Ano16v, Ano16w, Ano16x, Ano16y, Ano17a, Ano17b, Ano17c, Ano17d, Ano17e, Ano17f, Ano17g, Ano17h, Ano17i, Ano17j, Ano17k, Ano17l, Ano17m, Ano17n, Ano17o, Ano17p, Ano17q, Ano17r, Ano17s, Ano17t, Ano17u, Ano17v, Ano17w, Ano18a, Ano18-30, Ano18-31, Ano18-32, Ano18-33, Ano18-34, Ano18-35, Ano18-36, Ano18-37, Ano18-38, Ano18-39, Ano18-40, Ano18-41, Ano18-42]. **Editorial** [Ano18-43, Ano18b, Ano18c, Ano18d, Ano18e, Ano18f, Ano18g, Ano18h, Ano18i, Ano18j, Ano18k, Ano18l, Ano18m, Ano18n, Ano18o, Ano18p, Ano18q, Ano18r, Ano18s, Ano18t, Ano18u, Ano18v, Ano18w, Ano18x, Ano18y, Ano19a, Ano19-27, Ano19-28, Ano19-29, Ano19-30, Ano19-31, Ano19-32, Ano19-33, Ano19-34, Ano19-35, Ano19-36, Ano19-37, Ano19-38, Ano19-39, Ano19-40, Ano19-41, Ano19-42, Ano19-43, Ano19-44,



Ano19b, Ano19c, Ano19d, Ano19e, Ano19f, Ano19g, Ano19h, Ano19i, Ano19j, Ano19k, Ano19l, Ano19m, Ano19n, Ano19o, Ano19p, Ano19q, Ano19r, Ano19s, Ano19t, Ano19u, Ano19v, Ano19w, Ano19x, Ano19y, Ano19z]. **Editors** [Ano18-44]. **Editors-in-Chief** [Ano18-44]. **effect** [BLPT15, BTN<sup>+</sup>18, FJP15a, GWL<sup>+</sup>18, GTL<sup>+</sup>18, LMS16, LZ16b, Yus17]. **effective** [KLS19b, WDV17]. **effects** [Ruk15, Wan16b]. **efficiencys** [SSH15]. **Efficient** [RV18, Sas18, CP16b, Per18, RKT15]. **Ehrhart** [BJS18]. **Ehrlich** [RV18]. **eigenanalyses** [UZ19]. **Eigenbasis** [HPSS19, MS16c]. **eigencones** [PS16]. **eigendata** [DU16a]. **eigenpair** [LLV15]. **eigenparameter** [GM16a]. **eigenproblem** [BFY18]. **Eigenschemes** [AEKP16]. **eigenspaces** [BSS16, KT17, MP19, PS18b]. **Eigenstructure** [BCU15, BLdS16]. **eigenstructures** [DD17b]. **Eigenvalue** [AAS16, CR17a, ES16, FHJT19, Gho19, Mel19, Nag19, Row16a, SSCS16, ATM18, Ais18a, Ais18b, ABH<sup>+</sup>19, ABD19, BM16a, BK17a, BPP16, BPP17, BZ16c, BBC18, BMS16a, BC17b, BWSZ15b, BJLD17, CRX15, CPR18, CLQW17, CRS15, DLB18, DHW18, Duk12, Duk15, ELN18, EH18, FuIKT16, FWB<sup>+</sup>19, FI16, GM15, Gil16, GRS17, HL17b, HWXC18, HL19a, IK18, IR19, JP16, JMP17, JST19, JP18, JKS15, JS15, Kal16, KKY16, KLY18, KU16, LCL15, LM16b, LL16a, LJL16, LLL17, LDL18, Lin15a, Ma15, MHL15, MQTW18, MPS17, McK18, MNT19, NN19a, Nik16b, Obo16, PP17b, RMKJ18, See18, SdJY<sup>+</sup>16, SLY17, SWB19, SAdFZ15, SW18b, Sta19, SSB15b, SSB15a, TW18a, Van16a, VT18, WZL17, WZ17a, Wei15, WZL15, XL18, Yas16, Yin19, ZG18]. **Eigenvalue-free** [Gho19]. **Eigenvalues** [BSS18, GM15, GM16a, JTT15, YSZ17, ASMN17a, ASMN17b, Ais18b, ABG16a, AGS17, AAKS17, APS18, AB15a, AKYD16, ARSB18, ABvN19, BK15, BK16, BM18, BGS15, BGM<sup>+</sup>19, BM19b, BDVRT15, BCF<sup>+</sup>18, BB16b, BF15, CR17b, Che18c, Che18b, CLF18, Che19a, CLM19b, CJS18, Das15, DMT16, DMS19, EA17, ET16, EG15, IFwW16, FJT17, FdFdSDV18, FM19b, GAP16, GP18, Gho16, GWL<sup>+</sup>18, GTL<sup>+</sup>18, HKLQ16, HL18, HXL19, HQX15, HHL15, HH17, HK18b, IHM08, Jia15, JDS17, JLDS18, JMM16, KM15a, KPL18, Kri15, KLW16, KLW18, LOS19, LD16a, LWCS16, LDZ18, LLT19, Mat15c, Mel16a, Mon17, MST15, NN19a, Nik15, O16, OS17, PM15b, PG15, Piv19, PP18, Ref16, Row16b, SW15, Sam17, Sod18, TY15, TS18, TWR15, TW17, WLP16, WH18, Xu17b, wXjMZL19, YYMK17, YG15, YZL15, YQS16, Yua16, Zhu19]. **Eigenvariety** [FBH19]. **eigenvector** [AM16b, BMS16a, DdSJdFDV15, HW16, Ken16, Rin17, SSCS16]. **eigenvector-based** [AM16b]. **Eigenvectors** [BBGM16, DT15, FWB<sup>+</sup>19, AB16, BM19b, BS18c, Chu19, DA19b, DA19a, DV19a, GHT16, LZB18, LKY16]. **eight** [CF18]. **element** [DHS18]. **Elementary** [CGL16, AHV19, AMZ17, Bou16a, BR17, CQ15a, JLM18, KMS17a, Lee16, MB18, Pan19a, Pas19, PR18b, SJS15]. **elements** [Bal17a, Bre18, CDG16, DD16b, GLAdS19, HM17a, HC19, KLW15, MY19, Rai19, Van16b]. **elimination** [PQY15, PZ17b]. **Ellipsoids** [Kim15a, KKP19]. **elliptic** [CEM15b, HA15b, Kim15a, Yur15]. **Elliptical** [AAS18]. **embedding** [DPS19, VB18]. **embeddings** [De 16a, Han18, Pan16a]. **empirical** [GJLS16]. **enclosure** [Miy15]. **encountered** [BDLM16]. **end** [Nom15a]. **end-entries** [Nom15a]. **endomorphism** [CD16d, MMR18]. **endomorphisms** [KOST15, SR18, Shi16g]. **endpoint** [LS18b, MM17a]. **energies** [DMG17, DGM<sup>+</sup>18, DR18, LL15c]. **Energy**



[AHJR18, Ash19, AAG<sup>+</sup>19, AR16, APR<sup>+</sup>17, ARS17, ALOR19, BSP18, CLL15, CLZ16a, Che18c, Dah15b, DMG16, DM16a, DG18, DMS19, DL15, GCP18, GS19a, GW17b, GRS15, HLSP17, HT17, Ito17, JTT15, LMZRZ18, LLL15, MMM19, Mró16, Nik16a, Nik16c, NA17, Obo19b, PG15, VSV18, WM17a, WZZ19, WF19, WWC18]. **Engel** [BRN18]. **enhanced** [BCF<sup>+</sup>16, FOvdD16]. **entangled** [GW19a, Poo15]. **entanglement** [Car17, HK19a, JP18]. **entries** [Alf18a, APS18, DdSJdFDV15, GP19a, HLPS19, Hil17a, HN18, HK18b, Nom15a]. **Entringer** [FHS17a]. **entropies** [DHL<sup>+</sup>17]. **Entropy** [HYH15, FS18b, KP17, KKS18, SCD17]. **Entropy-preserving** [HYH15]. **entry** [AG17, HZ15, VQ17, VQ19]. **entry-wise** [AG17]. **Enumerating** [OL16]. **enumeration** [KS19]. **envelope** [APT17]. **envelopes** [Ber18]. **EP** [Wan16a]. **Equality** [GW18, GWW19b, GWW19a, BT17a, LL15b, SR19]. **equals** [MWT16a]. **equation** [CLM19a, CGM17, DI16, IT18, LMS15, LM19, SS18, WYL15, Wój19, WP17, DP15b]. **equations** [Ais18a, AHV19, BB16a, BDDSC17, BHP17, Bou15, CN19a, CFNP17, DIPR18a, DIPR18b, DP16, DPJ17, DFKS17, Dra18, EJ19, EM17, FI19a, FL15, FKS16, Gal17, Gua18, GL16, HK18a, HAWM16, HS19b, JKP16, KU16, MEMM17, Mys16, PMB15, RW16, SR18, SNP16, Shi16b, UZ19, WT18, Wim16, Zue18, dS18a]. **equi** [ET18]. **equi-isoclinic** [ET18]. **Equiangular** [CGSZ16, FJKM18, Gre18, BFG<sup>+</sup>16, BF17b, RNC17]. **Equidistant** [GR16, Pol19]. **equilibrium** [SSF16]. **equimodular** [CK19]. **Equitable** [BFW17, JZZ18, AC15, FSSW17, FSW19, YYSX19]. **Equivalence** [Bar17b, BBdH16, BBdH18, BS16f, BS18c, CJS16, Chu15, Had17, Jin15, Moh16, NSCV16, dICF16]. **equivalent** [BR16a, NS15a]. **equivalently** [dCdSA15]. **erasure** [FJMP15, LS15c]. **erasure-robust** [FJMP15]. **erasures** [CLS18]. **ERES** [CKM16]. **Ergodic** [BBMP19]. **Ergodicity** [Sab19, AB19, RH15]. **Erratum** [KAPS20]. **Error** [MM16a, WZL17, CW17, CJ16c, CJ16d, Ema18, Fis17, KL19a, Ma15, WLL19]. **Essential** [NSCV16, SS15c]. **essentially** [ÁKM17, SW16]. **essentially-invariant** [SW16]. **Estimability** [BFFN16]. **estimate** [Fre18, Nun17]. **Estimates** [Rum18, RB19, Duk12, Hua19, KRZ<sup>+</sup>17, OZ18, wXjMZL19]. **Estimating** [PSZ15, Wol18, FL15]. **Estimation** [CS15a, FM16, LHC15, SH15b, BBP19, BSS17, DR16, DLM15, Ema18, Fis17, KRZ<sup>+</sup>18, LLH17, PCL15, WYL15]. **estimator** [LLH17, iT19]. **estimators** [RBKA16]. **Estrada** [APR<sup>+</sup>17, CR19b, HLW15, HW15c, LZ15b, Rod19, ZW16]. **etc** [Bar15, JS18b]. **ETFs** [RGPH16]. **Euclidean** [Alf18a, BD15a, BK19, ET18, Fie15a, Gow17, GJ18, JG16, JG17, Jia15, Kim15a, KSTX15, KT15, KB15, Kwo16, PR18a, SSS15, TZK17, TW16]. **Euler** [Ern18, He16a]. **evaluated** [AEV15, CW16a, MO16]. **evaluating** [Fas19]. **evaluation** [Sas18]. **even** [DS19b, Fil18, FKM17a, FKM17b, uIKF15, NY15, WZZ19]. **eventually** [SA17]. **Every** [dlCMP17a, TXZ18]. **Evolution** [CMV16, CMV17, CKM19, DOR16, EL16, HA15a, HPSS19]. **exact** [SSS15]. **exactly** [HKLQ16, HHL15, MM17a]. **Examples** [Gol16, MM17c]. **exceed** [MHL15]. **exceptional** [Zus17b]. **exchangeable** [KRZ<sup>+</sup>17]. **excluded** [BS16e]. **exist** [GLZ16b]. **Existence** [Mon17, BPR17, BÓ15, DS17b, Fil18, FJ19, dMGC19, HHR16, NS15a, Sam17, ZLG15, ZMT19]. **Exotic** [KOST15]. **expander** [Lev15]. **expansions** [BCKL17, LG18, dS19a]. **expected** [DHLT19]. **Explicit** [Ban16, BG15, EJ18, Guo19, SR18, DDL17, DSCD17, FKRS17, Nat19, Pud16].



**exponent** [BS16b, HYY15, Iop18, OQ18].  
**Exponential** [AMH11, HM17b, Tan19, AGHN18, BDLM16, BMO15, CJB18, Dra18, Fis17, FL15, Obe16, PPZ19]. **exponents** [ANAPSR17]. **exposed** [Zha18a].  
**expressed** [DMQ19]. **Expressing** [HLZ17, Hou20, Ste18]. **Expressions** [CGMSR15]. **Ext** [CG19b]. **extendability** [BGdCCMSS17]. **extendable** [CRVSS19].  
**Extended** [Nie18, AG16, BW19, CEM19, LHC15, Nom16, Sch16, WHG17].  
**Extending** [JZC19, PP15, Shi16d].  
**extensible** [dCdSA15]. **Extension** [Zha15b, ZH17, Ali20, CS17, DP15a, HAD19, LS18a, Nie19b, PQY15, Ric19, Row18, VGG17].  
**Extensions** [CTZ19, FSSW17, SST15, BBM16, EF17, EF19, KVP19, KSVW17, MM17b, NT19].  
**exterior** [Mag16]. **extinction** [GCQX15].  
**Extracting** [You15]. **extraordinary** [FM19b]. **Extrema** [Nik15]. **Extremal** [AdIPR16, Kri16, RMS16, SUY16, BZ16c, BM19b, BDK<sup>+</sup>17a, GP19a, Hut17, LD16a, WZ15]. **Extremality** [GW16a, GW17a, GL19, Che19b].  
**Extremals** [Ser15]. **Extreme** [HLM17, NAS18, Eve18, FL16, PP18].  
**Extremizing** [Kal16].  
  
**facets** [AK17]. **facially** [Zha18a]. **factor** [LZ17c, WFS19, Yor17]. **factoring** [FR18].  
**factorisations** [ABP15]. **Factorization** [CP17, Kur19, Mar16, AAG<sup>+</sup>18, Bot16b, Bur15, Chu16, DEH16, LMS15, LWY16, LSM16, LSM18, MV16, SP16, ZSQZ19, ZZC15]. **Factorizations** [BJ16, Lev18, SG17a, AAC17, Hua15, LW15, SSV17, TVD15]. **factors** [CQ15a, DS15, FR16, Ram17]. **Failed** [AJPS16]. **Failure** [DPS19]. **false** [Shc16].  
**families** [AN17, ABGJR<sup>+</sup>18, BmBCC17, BGCMASS19, CLHL15, CM19, DGGP18, DR19, FJ19, FL15, GMO19, Hru16, Kol15, LD17c]. **family** [APR<sup>+</sup>17, BCC<sup>+</sup>18, BS16e, BH16b, CPS17, COS18, CMPZ18, ET18, GSSvdD16, PRS19, SSH15, UWYY15]. **Fan** [HRM18, Pet15, SWB19, TY15]. **Faria** [ACPR15]. **Farkas'** [CS15b, Alf15, CJ17c, DP15a, LX17].  
**Farkas-type** [LX17]. **farthest** [GMLT19].  
**Fast** [LL16b, Miy15, BP19a, JKP16, KP19].  
**fat** [KLY18]. **FEAST** [Yin19]. **Feedback** [DS19c, BR19, Bel16, NN19b]. **Fejér** [Chu16]. **Ferrers** [Bal15c, LCF19]. **few** [JZ18, OQY17]. **fewer** [BF15]. **Fibonacci** [HHJM15]. **fidelity** [LPP15]. **Fiedler** [AB16, ARSB18, BDP<sup>+</sup>18b, DA19b, DA19c, GP19a, LZ17b, PD17, RRS16]. **Fiedler-like** [AB16, BDP<sup>+</sup>18b, DA19c]. **Field** [HK19c, BZ16a, Bal17b, Bal18, Bie15, Cox15, FKS16, JSST16, JLDS18, LS15b, MM17b, Pel17, Ram16, Sha16, Sin17, UG18, Van16b].  
**fields** [Bal19, BLdS16, BP19b, BC17a, Bre18, CM18, CFW15, CJK<sup>+</sup>16, HA15a, JKKL15, LS15b, Lie18, NT19, PW19, PW20, RFPS18, Shi18a, SH15b, WG15]. **fifteen** [HAWM16]. **filiform** [CLOK13, EF19, LMO16]. **filling** [BGCMPB15]. **Fillmore** [Bor17]. **filter** [CMV19, Van16a]. **filtering** [DLM15].  
**filtration** [FH19]. **finding** [RV18]. **finitary** [CDH18]. **Finite** [BGOY15, LZ15e, MS19, NINS16, Yan18, AMZ17, AKR15, AK16a, AK16b, Bal17b, Bal18, Bal19, BLPT15, Bre18, CM18, CDFK19, CW15a, Che15b, CJK<sup>+</sup>16, Cos19a, DHLT19, Far16, Gol17, Gór17, HA15b, IM19, JT18b, KKLP17, KT19, LS15b, LT16b, LH17, Lie18, LZ15d, Man19, MS17a, Mig16, OW17, Pan19b, PMB15, PS19e, PW19, PW20, QWW18, Ram16, RFPS18, RE16, Row15, Sab19, SR18, Sha16, UZ19, UG18, VB18, Vir16, WG15, Wol18].  
**Finite-dimensional** [LZ15e, Yan18, AKR15, AK16a, AK16b, CDFK19, CW15a, Gol17, LT16b, OW17, RE16]. **finite-time** [PMB15, QWW18]. **finite-valued** [KKLP17]. **Finiteness**



[Egg15, Koz16, NW19]. **Finsler** [Cim15]. **firing** [BMZB18]. **First** [PM15b, BK17c, Chu16, GHPS19, Hun18a, Kal16, KT17, LDZ18, Lom17, OQY17, XWD18]. **Fischer** [CTZ19]. **fitting** [HPZ19, UM16]. **five** [HA16]. **five-dimensional** [HA16]. **fixed** [CMQV16, DD18, FG17, JKS15, JKP16, KLL16, KKY16, NLW18, PS15, RR18a, SJD16, You15]. **fixed-point** [FG17]. **fixing** [KLW15, KLW16, KLW18]. **flag** [BF19b]. **flags** [Lax16]. **Flanders** [dSP16b]. **Flat** [KY15, BBM16, JSST16, SS17a, WH19a]. **flattenings** [Hu15]. **flow** [DvSW18, Li15b, MGM17, Per18]. **flows** [Ban16, HL17a, VG18]. **fluctuations** [MNT19]. **fluid** [BDLM16]. **forbidden** [FdFdSDV18, Yua14, Yua15, NY15]. **forcing** [AJPS16, FMY16, KL19a, Lin16a, Lin19, TD15]. **forest** [JMPS18]. **form** [AEKP16, BBdH18, BLdS16, BTW16, BGSS18, BD19, CS18b, Cus17, DEH16, DFK<sup>+</sup>15, EG15, FM16, GLAdS19, Gir19, GBRs15, IW15, IGW17, Joe16, Li15a, MN15, Miz16, Nom15b, PRS18, Rad17, SZ23, Wój15]. **formal** [CJS16, GPI18]. **formalism** [MdlP16]. **formats** [YLB15]. **forms** [AAAdFS19, BS18b, CR19a, CG19b, CXLF16, CNX17, CN17a, CFP18, CQS18, De 16b, GKR16, GLW17, HSTW17, IKR16, LS15b, MN19b, Ota15, Tok17, dFRS16, dFFRS17]. **formula** [AM15b, ACM15, ALOR19, BLdS16, BBM16, CDMP15, CUPW15, DKSV19, Hil18, LMPM17]. **formulae** [Ban16, OBRA15, XW16]. **formulas** [CM17, CJB18]. **formulation** [HPZ18, HPZ19]. **Forward** [SSB15a, MP18, Per18, BCMASS15]. **forward-backward** [MP18]. **found** [BH16b]. **foundations** [Gar17]. **four** [Ben18, BP19b, HH17, Pel17, TWR15, dlC15]. **fourfolds** [Jel18]. **Fourier** [BLdS16, KP19]. **Fox** [KL18a]. **Fractional** [Mat15a, SKC18, RW16, ZH17]. **Frame** [CC17a, CDFK19, LH17, BCKL17, LC19]. **framelets** [AKPS19, KAPS20]. **Frames** [CLS18, AW15a, BGOY15, BFG<sup>+</sup>16, BF17b, CH19, CFW15, CW17, DV18, FJMP15, FJKM18, HJ19, HL17c, LS15c, MRS15, MBB<sup>+</sup>18, NAS18, RNC17, RGP16, WO17, Zas16]. **framework** [FM17, JLT17, OZ15b]. **frameworks** [Alf15, KS15b]. **Frechet** [Eld15]. **Free** [BdlCL17, HNS15, KRZ<sup>+</sup>18, Tan16a, ABM16, AL19b, CLR16, CD16d, GSZ16, Gho19, IKR16, JMRV16, Row16a, Shi15, Shi16g, ySpW17, SZ17, Zaj19]. **Free-coordinate** [KRZ<sup>+</sup>18]. **Friedland** [Tsa16b]. **Friedrichs** [LMX19]. **Frobenius** [CLZ<sup>+</sup>16b, FK16, GH16a, LT19b, Mon19, Tar18]. **Frobenius-norm** [CLZ<sup>+</sup>16b]. **Fucík** [LN18]. **Fueter** [ACS19]. **full** [SZW16]. **function** [AB15b, AMZ16, AGHN18, BS18a, BGCMASS19, CFL16, CPW17, DS18b, DSX15, Hun18b, JCW19, Kli19, KMS16, KMMS19, Som17, TH16a]. **Functional** [Ere16, Wan15b, Nev18, Wój19]. **functionals** [Gir19, dSP19a, Pop16b, SST15, WH19b]. **Functions** [MN19b, AB16, AL18, AL19a, ACS19, BKNS17, Bar17b, BBSS18, BGCMLSSS16, BEKS17, Bil19, BS19c, BU18, CPZ16a, ÇMP18, CR18b, CW18b, CRVSS19, CLP16, DR16, DDF18, DM15, FI19a, Fas19, Fay18, FNX19, FKM17b, FKRS17, GS16, HM17a, He16a, HNS15, Hia16a, Hil15, Hoa15, Hon18, IHM08, JMRV16, JG17, JS18a, JLM18, KM16, LT19a, MY16, MR17b, Mon19, NW15, Naj17, Nie19b, Pas18, RRT16, RV18, SR19, Sch16, Shi18a, dSN15, Skr17, SZ19, SS15b, UUG15, Van16a, Vol17, Yam15]. **fundamental** [AHV19, GZB19, IHS16, ZD15]. **Further** [AAG<sup>+</sup>18, BTN<sup>+</sup>18, DKPU18, LW15, YHY15, ZM16]. **Fuss** [HS17]. **fuzzy** [MP15b]. **Gabidulin** [TZ19]. **Gabor** [DV18]. **Gaddum** [EA17, HL19a, LOS19]. **gain**



[LWX17, Ref16]. **Gale** [RT16]. **Galois** [GL15b, GL15a]. **game** [GR15]. **game-theoretic** [GR15]. **games** [GC19, Gow16, XvdBvdLS15]. **gap** [BGT<sup>+</sup>19, CCW16, Car17, Wol18, Zui17]. **gaps** [FCLP18]. **Gau** [CDR<sup>+</sup>19, Lee15b]. **Gauss** [BV18a]. **Gaussian** [FL15, FI16, Hoo19, PCL15, PQY15, PZ17b, SH15b, Zim15]. **gcd** [AYK17, AKYD16, AYK17, GW19b, HT18a]. **gcd-closed** [AYK17]. **Gelfand** [FH19]. **General** [DSCD17, FSW19, ABP15, BCM17, Bar17a, BBM16, CDR18, DL16, EH18, Hla15, KSMB15, KM18, Li15a, LX17, Miz16, RH15, SK17a, SZB19, Uch15, wXL14, wXZ19, ZLKB17]. **Generalization** [DFKS17, Roo19, AOK19, BEF16, Hia16b, HP15, KPRvdO16, Rao18, TW16, TG19, Vec16]. **Generalizations** [Liu16a, HS19a]. **Generalized** [BS18c, FT16, IK18, MT15, Zem16, ZZC15, AMPT16, AHV19, Bai18, BLdS16, Bar16a, BBS16b, CEM15a, CCW18, CK15a, CJ17c, CHT19, DA19b, DI16, DIPR18a, DIPR18b, Dra16a, DHW18, DGP<sup>+</sup>15, DM15, FuIKT16, FGS<sup>+</sup>16, FM19a, FX19, GSSvdD16, GH16a, HAWM16, HPZ19, Hua19, IR19, JT18a, JZZ18, KP17, Kim15b, Koo19, KSTY18, KMM17, LJK16, LNT16b, LLPS19, LZ15e, Ma15, MW15, MLW15, MS17a, MS15b, NN19a, Nie19b, Pep17, PF18, RD15, SMH19, SR18, SR19, SB15, TZ19, WM17b, XSW19b, XSW17, wXjMZL19, Yin19, YMZ19, ZH15, dCdSA15, BS16f]. **Generalizing** [SP16]. **generated** [FM19a, Jia15, JLM18, Kan16, KS17, K LW15, MS19, Pas19]. **generates** [RS18]. **Generating** [Mon19, SÖ16, AGHN18, BN17, CN15, CN19b, Vij15]. **generation** [RAAGA16]. **generator** [LMS16]. **Generators** [CS18b, Chi18, FH19]. **Generic** [DD17b, DD18, Mor17, SS15a, BC15a, Bou15]. **genericity** [BGdCCMSS17]. **geodesic** [BHML15, STZ15]. **geodesic-affine** [STZ15]. **geodesics** [WO17]. **Geometric** [BHML15, BC16b, HL17a, JS18b, KLL19, RH15, Tsa16a, DGSV17, EHN16, FS17b, FS19b, GT17, IKW16, KLL18, LPP15, MHA18, Nob16, NK18, Pep17, Zou17, Zou19]. **geometrical** [Fli16]. **geometries** [ABP15, CD16a, Hor17, IM19]. **Geometry** [ÁVAK<sup>+</sup>19, BPZ17, CRC17, Che15a, DvSW18, Fie15a, IHS16, Li15b, LM19, MHS15, Sar19]. **geometry/trigonometry** [CRC17]. **gerechte** [BL16]. **Gersgorin** [HW16]. **Gershgorin** [DeV19, Rum19]. **Gerstenhaber** [HO15, dSP19b, dSP19c]. **Ghorbani** [Riz19]. **ghost** [ME15]. **Gibbs** [RH15]. **Gilmour** [KÖ16]. **girth** [Fil18, LLT19]. **give** [Gal17]. **given** [BR16a, CJ17d, De 16b, DV19b, FdC15, HLW15, HSS16a, IKVZ18, JL16a, Kal16, KT15, LdlP15, LLT19, MS16a, Mon17, Pas19, Ram17, SÖ16, SUY16, TH17, WHG17, WZL15, XSW19a, XWL17, XWD18]. **gIN** [FH19]. **Global** [LM19, CJ16d, Est16, KH17, NT19]. **globally** [JCW19]. **GLT** [Bar17b]. **GM** [WQH19]. **GM-switching** [WQH19]. **GMRES** [DHW18]. **Gohberg** [XW16]. **gons** [VGG17]. **Gorenstein** [Jel18]. **Grad** [Zha15a]. **grade** [DD18]. **Graded** [BY19, BFD18, BZ16a, BKRE18, CC16, CLOK13, CR15, LMO16, RZ17]. **graded-division** [BKRE18]. **gradient** [KR17]. **grading** [Zue18]. **Gradings** [CME18, KY17, RZ17, RE16, Zus17a]. **graft** [LZ16b]. **grafting** [HLSP17]. **Gram** [CA19, GSZ16, Sei18, Sim19, Yas16]. **Graph** [BK16, dSN15, YYMK17, ACT16, ARS16, AAMM18, AL15, AJPS16, AvdHS15, ALOR19, AM16b, AM18, AB18, BDMB19, Ben16, BPR17, BF15, CLT15, CD16b, Che18b, CLF18, CD16c, CGSZ16, COvdD16, DHL<sup>+</sup>17, Dal19, DM16a, DMG17, DR18, DT15, DHS18, EA17, FW17, GAP16, GP18, GCP18, GK15, Gho16, GRV16, HHL19, HFS15, HZ17, JT17, JLDS18, Ken16, Kob17,



KMS16, KIS18, KMMS19, K LW15, K LW16, K LW18, KMM17, LOS19, LLL15, LL18b, LWZ18, LHL18b, MWT16b, Mes17, Mig16, MMS18, MM15b, MS16c, Mon17, NS15c, Nik15, Nik16a, OS17, OP16b, Per18, PG15, Piv19, SW15, SAdFZ15, STW18, STW19, TNK16, TWR15, TW18a, VSV18, Wan15a, WM17a, WDV17, WH18, WYL19, WF19, WWC18, XLLS18, ZG18, Zho17, ZWS18, vDS16]. **Graphical** [SFW18, FZL<sup>+</sup>17]. **Graphs** [Alf18b, BFM19, CRS15, LS15a, MQTW18, TW17, dFNP16, AAB<sup>+</sup>16, AAG<sup>+</sup>19, AJO15, Abi19, AG15a, AyLPS18, ASMN17a, ASMN17b, AHMM18, ABH<sup>+</sup>19, AAS16, AAKS17, AT15, AAC<sup>+</sup>15, ACRRI15, AGRRI16, APR<sup>+</sup>17, ARS17, ALMZ<sup>+</sup>19, AB17, Ash19, AH16, AP15b, ABK19, BBM19, BK15, Bah19, BM17b, BK17a, BPP16, BPP17, BK18, BFW17, BS15c, BP15, BSS16, BZ16c, BBC18, BCC<sup>+</sup>18, BSMSZ19, BSP18, BK17c, BF15, BH16b, CR17a, CR17b, CDR18, CPR18, CCdFV18, CR19b, CLL15, CLZ16a, CL17a, Che19a, CLM19b, CFH19, CJKM19b, CJKM19a, CV18, CW16b, CGGV15, CJ17d, Dah15b, Das15, DMT16, DMG16, DS17a, DGM<sup>+</sup>18, DG18, Das18, DHHZI19, DMS19, DLG16, DPR19, DBK17, DL16, DL15, DM15, ET16, EB17, EHHL17, EHLP18, ETF18, fWw16, FCL<sup>+</sup>16, FJT17, Fio16, FKD15, FSSW17, FSW19, FHJT19, GGH15, GH19, GSZ16]. **graphs** [GK15, Gho19, GHS16, GLW17, Gre18, GJLS16, GRS17, GWL<sup>+</sup>18, GTL<sup>+</sup>18, GRS15, HKLQ16, HLSP17, HS19a, Her16, Hey17, HXL19, HMT19, HLLZ17, HK19b, HHL15, HLW15, HSS16a, HSTW17, HH17, IM19, JTT15, JT18a, JZ18, JKP<sup>+</sup>17, Jør15, JMM16, JKS15, KM15b, KKY16, KM19, Kol15, Koo19, KLY18, KSTY19, LJK16, LMT19, LMZRZ18, LZ15b, LM16b, LN17, LS19, LZ15c, LwW16, LD16a, LWCS16, LDZ18, LHX18, LXS18, LL15c, LHG15, LZ15d, aLwW15, LSX15, Liu17, LLS17a, LLS17b, LZSD17, LLZ17, LL18a, LZSD18, LLT19, LWX17, LHH17, LHL18a, MHL15, MWT16a, Ma16, MG18a, Mac16, MMP16, MM17a, Man19, MW15, MLW15, Mir18, Moh16, Mol18a, MM16b, MK18, Mró16, MST15, Nik16a, Nik16c, Nik17c, NR18, NLW18, NLWJ18, OQ18, Obo16, Obo19a, Obo19b, Obo19c, OL16, PP17a, PP17b, Pan16a, PS19a, PS19b, PS17, PF18, PS15]. **graphs** [QKP16, RFPS18, RFPS19, Ref16, RS17a, RB16, RR18b, RMS16, RJK18, Row15, Row16a, Row16b, Row18, San15, San18, SS17a, See18, SMBDK16, SM16, SM18, SY15, SSF16, SS16, SZ17, Sim18, Sim19, SUY16, zSqST15, Sta19, SV17, TH17, TFC19, TWM16, Tom15, TSH16, Urs18, VK19, WYLLW17, WM17b, WW18, WWT18, WQH19, WLWZ19, WZW19, WYL19, WZZ19, WZL15, WZ15, XS18, YCL17, YZLC18, Zaj19, ZLG15, ZW16, ZLG17, ZLS17, ZXW19, ZGW16, dS18a, dIPJG18]. **Grassmann** [BA15, CG16, CG19a, CLLS19, GGH15, Jen17, Pan16a, SY15]. **Grassmannians** [BHML15, Pan16b, Pan17]. **Green** [CEGM16, CEM15a, GJK18]. **Grid** [CDRT17, KN16, OL16]. **grids** [Sar19]. **ground** [LM19]. **Group** [FJMP15, KY17, AMC18, ABP15, Bie15, BS19a, BJ15, CS19a, CFH19, CH19, CJ17b, CS18b, DHS18, Gae16, GH15, He16b, HS17, K LW15, KMM17, LH17, LMM<sup>+</sup>16, MBB<sup>+</sup>18, MY19, PB16, Pop16a, RB16, Sri17, Van16b, Wei17, WLH18, XW16, ZMT19]. **group-subgroup** [RB16]. **Group-theoretic** [FJMP15]. **groups** [AJ19, BD15a, BRN18, BMZB18, CLUP17, Che15b, CHK17, CW17, DF15, DF18, DH19, Far16, GG18, Gae16, GP19b, KMOR19, LMPM17, MS19, MOR16a, NT19, Oi19, Saw16, Sin17, TZ19, Zem16]. **Grover** [KSTY18, LT18]. **Growth** [AB19, CR15, bCR18, LHC15, RZ17]. **Grundy** [Lin19]. **GTS** [NS19]. **guarantee** [Lin16a]. **guarantees** [ZC15]. **Guo** [AB15b, AMNR18, Rob19]. **gyroscopic**



[CL15c].

**H** [CS19b]. **H-matrices** [CS19b].

**Haagerup** [Ali20, HAD19]. **Hadamard** [FJS21, AMV17, BS15a, BGKP19, CM18, DHW16, FJS17, GW16b, GX17, HL17b, HW15b, Jai17, JKP<sup>+</sup>17, Kar16, LK16, NS17, NW19, Pep17, RS17a, Roo19, RWH17, TG19, Zha18c]. **Hadamard-type** [HW15b]. **Hadamards** [MB15]. **Hajós** [Jen17].

**Hajós-type** [Jen17]. **Half**

[EV15, YDYY18, AM19, CD16a, HT18b].

**half-radial** [HT18b]. **half-spin** [CD16a].

**halfspaces** [SW16]. **Halley** [LG18].

**Halmos** [LMX19]. **halves** [Bar19].

**Hamburger** [CJ16b, HZC15]. **Hamilton**

[BBS16b, LN17]. **Hamiltonian**

[LSX15, LS18b, SS15c, ZG18, Zhu19].

**Hamiltonicity** [Ben16]. **hand** [HPZ18].

**Hankel** [Al<sup>+</sup>17, BS18a, CJ16b, CI15a, CI15b, DS19b, FM19a, HKM18, Xu16, Yur15].

**Hans** [BMS16b]. **hard**

[BC17b, FS19a, RSS17]. **HARDI** [CS15a].

**Hardy**

[AP15a, ANAPSR17, HJW19, Nun17].

**harmonic** [Vec16, Yam15, Yin19]. **Harpe**

[Ali20, HAD19]. **Haukkanen** [AKYD16].

**having** [BK17a, BBH16, ET16, HLG15, IKVZ18, Nom15a, Nom15b]. **Hecke** [Rai19].

**Hedetniemi** [KM19]. **Heisenberg**

[LZ15e, Pop16a]. **Helly** [BJC15].

**hemispaces** [EHN16]. **Herglotz** [ACS19].

**Hermite**

[BDM18, ACDT<sup>+</sup>15, Joe16, PP18, Reb19].

**Hermitian** [ACM17, BŚS18, BBGM16, BBFF17, CG19a, CRC17, CLZ16a, CS18b, CQS18, FM16, GXYZ17, GMO19, Lau18, LL15c, MNTX16, Moh16, Ore16a, Ore16b, Sch16, SWZ18, TC15, Vec16, Yin19].

**Hermitian-adjacency** [LL15c].

**Hermitianity** [HK19c]. **Hermiticity**

[BdP18a]. **Heron** [Hoa17]. **Hessenberg**

[BR16b, DHW18, Mar16].

**Hessenberg-upper** [DHW18]. **Hessian**

[CPW17]. **heterogeneous** [Ruk15, Zha15c].

**Hiai** [Wad18]. **hidden** [DN16, LL16b].

**Hierarchical** [DH15]. **hierarchy** [Ong18].

**high** [CS15a, GdLL17, KU16, Lom17, MH15, SSH15, TW18b, WZ17a]. **high-dimensional**

[KU16]. **Higham** [Fis17]. **Higher**

[BBMFM17, AAS18, AMC18, BGV17,

BBT15, CLUP17, CL16, Fre18, GH16b,

GS15, HMNP15, KKP19, LZ15a, SL16].

**higher-dimensional** [CL16]. **higher-order**

[GH16b, LZ15a, SL16]. **Highly** [CLM19a].

**Higman** [LMP<sup>+</sup>17]. **Hilbert**

[AK19, BF18a, BCKL17, BSZ18, Bil19,

CR19a, CGL16, DY15, GKR16, Jel18,

LMX19, MS17a, MEMM17, OZ15b, Pan16b,

PCI15, Pop16a, Vir16, XF17]. **Hilbertian**

[BFA18, FG16, Zam19]. **Hille**

[Bob16, CJRMF<sup>+</sup>15]. **Hille-type** [Bob16].

**Hilton** [GLW17]. **Hlawka** [BS15d].

**Hoffman** [KLY18, KSTY19]. **hold**

[DV18, Wad18]. **Hölder** [Kal18, Zou19].

**Holomorphic** [BGCMLSSS16, Bal17a,

BGdCCMSS17, Bil19, FKM17b, Nev18].

**homogeneous**

[BB16b, IL17b, PC15, Vas15, Zue18].

**homology** [BBMFM17, CCW18].

**homomorphism** [Jen17].

**homomorphisms**

[GRV16, OP16b, dSP15, dSP16e].

**homotopies** [BV18a]. **homotopy** [KL18b].

**Hook** [NS17, Sri17]. **Hopf**

[BBdH16, BBdH18, MG18b]. **Horizontal**

[CJB18]. **Horn** [Bar15, CW18a, DP15a].

**Hou** [Bah19]. **Hourglass** [Koz16].

**Householder** [RMP18]. **HSS** [Bai18]. **Hua**

[LHS16, LZH16, Lin16b]. **Hua-type** [LZH16].

**hulls** [AMR19, KS15a]. **Hurwitz**

[BS18a, Dya17, PM15a, Riv15b].

**Hurwitz-type** [BS18a]. **Hyper** [BT15].

**Hyper-ideals** [BT15]. **hyperbolic**

[GT16, LP18, MHS15]. **hyperbolical**

[SÖ16]. **hyperboloid** [SÖ16]. **hyperboloids**

[Kim15a]. **hypercube** [Mir18].

**Hypercubes** [KHI16a, KHI16b].



**hyperdeterminant** [YLB15]. **hypergraph** [HQX15, Pea15]. **hypergraphic** [CRRY15, CLR<sup>+</sup>18]. **Hypergraphs** [Nik17b, BL18a, BCM17, CLN15, Duk12, Duk15, DR19, FuIKT16, FWB<sup>+</sup>19, FBH19, JZZ18, KNY15, uIKF15, LZB18, LZ16a, LZM16, LZW17, LZ17a, LKY16, LM16c, OQY17, RS17a, SY17, SZB19, XLQC16, YYQ19, YZL15, YQS16, ZLKB17]. **Hyperinvariant** [AW15b, AW15a, FMM16]. **hypermatrices** [Nik17a, Nik17b]. **hypermatrix** [GF17, Pea15]. **hyperplane** [FGG<sup>+</sup>18]. **hyperplanes** [Pan15b]. **hyerpower** [SSH15]. **hypersurfaces** [UM16]. **hypertrees** [GZ18, ZKSB17]. **Hyponormality** [Lee19a].

**ideal** [HR17, Pop16b, Ris16]. **ideals** [AKS17a, AKS17b, BT15, CKM19, HR17, JLM18, KVV17, Ris16]. **idempotence** [LP15]. **idempotent** [Bot16a, GT17, LP15, Ste18, TXZ18]. **idempotents** [AJL16, BES16]. **Identifiability** [Wan16b]. **Identification** [LPPZ19, Hoo19, NAS18]. **identifications** [SBB15]. **Identifiers** [GZ19]. **identifying** [BDMB19]. **Identities** [UG18, AGN18, BY19, BKNS18, BLdSV19, BV18b, CR15, Ere16, HHJM15, LMR16, TZK17, Wan15b]. **identity** [AMPT16, BaHOS15, LMS16, LLSX15, Rum18, RB19, Zha18b, dCdSA15, vWZ17]. **ifications** [BR16a, DPV19, DDV16]. **Ihara** [KMMS19, Som17]. **II** [dSP19c, AKS17a, BS16c, CJKM19b, CSJ16, DV19b, EHLP18, FKM17b, GH15, Hia16a, KLY18, Ore16b, PT19, She17]. **III** [AKS17b]. **ILAS** [CFH<sup>+</sup>16, FLVV18, GPW15, GHPS19]. **ill** [BB18, NSCV16]. **ill-posed** [BB18]. **Ilmonen** [AKYD16]. **image** [DDSC<sup>+</sup>16, PS16, Win16]. **images** [AEV15, Fag19, LNT16a, Lau18, LT16b, MO16]. **imaging** [CS15a]. **immanantal**

[NS17, NS19]. **immanants** [Tab16]. **Implementing** [CG19a]. **Implications** [BdP18a]. **implicit** [CMV19, SNP16]. **imprecise** [Sku17]. **imprecision** [Sku17]. **imprimitive** [MP16c]. **Imprimitivity** [AGH17]. **improve** [AM16b]. **Improved** [Che18b, DM18, XL18, LLH17, Xu17b]. **Improving** [OVW18]. **incentive** [LT19a]. **incidence** [AB18, CR18b, CDH18, IHM08, Ma16, MMM19, WZZ19, ZK17]. **including** [Ern18, JLD17]. **inclusion** [BWSZ15b, BJLD17, DLB18, ELN18, LCL15, LL16a, XF17, YZL<sup>+</sup>19]. **incomplete** [LSM18, Mic16, iT16, iT19]. **inconsistent** [BW19]. **increasing** [CR19b, Gar17]. **Indecomposable** [CPS17]. **indefinite** [MV16, MSSZ17, ME15, NN19a, SG17a, VK16]. **independence** [ACT16, JL16a, LL18a, ZLG17]. **independent** [bCR18, MC19, OL16, Vij15]. **indeterminates** [HZ15]. **index** [AGH17, AMNR18, BOT19, CR19b, DG18, DS19b, FW17, JDS17, Kim15b, LZ15b, LS19, LLZ17, LL18a, MMS18, NY15, NR18, PS15, Rob19, SPBB19, SG16, Yua14, Yua15, ZW16, dFNP16, Rod19]. **indexes** [WWT18]. **indices** [APR<sup>+</sup>17, DA19c, FGS<sup>+</sup>16, HLW15, HW15c, Pal16, Som17, SS17b]. **induced** [KSTY19, Mar18]. **inductive** [MHA18]. **Inequalities** [BM19b, BJL19, CS19a, Cho17a, Cho17b, HvdD16, AOK15, AO18, AKS17a, AKS17b, AN17, AK19, ANAPSR17, Bar17a, BS15d, BLY16, BBP19, CPZ16a, CM16, DKS15, DS15, GW18, GHK17, GLRT18, HRM18, Hoa17, HWXC18, JM16, JLM18, Kal18, KMY15, KL17, KMS17a, Lin16b, Lék16, MN15, MRS15, MF16, NS17, Nie15a, Nie15b, Reb19, Ric19, Sab15, Sab18, SMH19, SDK17, She17, SWB19, TNK16, Uch15, Ulu19, WDFS17, XCJ18, Zam19, Zha18c, Zha19a, Zou19]. **inequality** [Ali20, ACPR15, AP15a, BNST17, CJRMF<sup>+</sup>15, CPZ16b, CTZ19, CS17, CW15b,



CJ16c, CJ16d, FS19b, GXYZ17, HAD19, Hay19, HL17b, IKW16, JZC19, LS18a, Lin15c, Liu16a, Nun17, RRV15, Roo19, RWH17, Wad18, Zha19b, Zou17]. **Inertia** [HT18a, NN19a, AvdHS15, AvdHS16, BS16a, FW17, LS19, LLL15, LOvdD18, WWT18]. **inertias** [BOvdD17, COvdD16]. **inexact** [BM17a]. **Infimum** [WLL19]. **Infinite** [BGdCCMSS17, DE15, ET18, MS17a, Min17, ABO15, AMZ17, Bie15, BS16e, CG19c, CJ17c, Dya17, Egg15, EGT15, HLZ17, Hou19, Hou20, KL19b, LD17b, LMR16, MK18, NT19, Pan17, PMW19, PP15, PPZ19, SR18]. **infinite-by-infinite** [Egg15]. **Infinite-dimensional** [Min17, CG19c, Pan17]. **Infinitely** [VB18]. **infinity** [GS19b, LCWZ19]. **Inflation** [SZ17]. **inflations** [MM19a]. **influence** [BK17c]. **information** [DKS17, Mel19]. **initial** [MGM17]. **injectivity** [FMR19]. **inner** [AGQ19, AL19b, BEKS17, FZwCW16, FS19b, Mag16, MSSZ17, PP18, SG17a]. **inputs** [LPPZ19]. **insight** [CQ15b]. **Instances** [DK16]. **instructional** [Dog18]. **integer** [Bor17, Mac16]. **integers** [San15]. **Integral** [BK18, CFH19, San15, ALOR19, Bal17a, Cal16, CDMP15, CS15a, CX17, CW16b, DN18, FdC15, HK19a, JKP16, Mir18, Ota15, PS19a, San18, Wim16]. **integrality** [DN18]. **Integrally** [MS16a, PS17]. **integration** [BPT15, Van16a]. **Integrators** [AMH11]. **intercyclic** [VV18]. **interlaced** [MM15b]. **Interlacing** [GMO19, DS15, Tya17]. **International** [GHPS19]. **interplay** [Pal16]. **interpolants** [ACDT<sup>+</sup>15, EG19]. **Interpolated** [Sab15]. **Interpolating** [Zha19b, RV18]. **Interpolation** [BDM18, AL18, HZC15, MM17c, Ste15]. **interpolational** [UY17]. **interpretation** [FKD15]. **interpretations** [LPP15]. **interrelations** [Riv15b]. **intersection** [KKL<sup>+</sup>17, PRS19, SXD16]. **intersections** [RV18]. **intertwiners** [Ter17a]. **intertwining** [DSCD17, MMS16]. **Interval** [Mys16, RS18, WT18, Gho19, Hla15, HS19b, Li15a, LX17, Li19, MP15b, MP19, PM15a, PS18b, Rub19, wXjMZL19]. **intervals** [XL18]. **intriguing** [BM19a]. **Introduction** [Bru16a]. **Invariance** [AG17, BJ15]. **Invariant** [CQ15a, ACRR15, AG15b, AG20, BBEE19, BB16a, CKL17, CFP18, CJW19, DG18, DH19, DS15, JLM18, KT17, KLL18, KMS17a, Lee19b, LP18, LNW17, MRS18, MOR16a, NINS16, NP15c, Ouy17, Ram17, Sab15, SK17a, SW16, WL15, Zha19b, Zha15c, Zou19]. **invariants** [DS19c, GRV16, KLP18, Obe16]. **Inverse** [BS16a, CS19b, CIY15, CNY18, ES16, HJ16, HC15, HFS15, Wei15, ATM18, Ais18a, Ais18b, AB18, BW16, BPP17, BFM19, Bik19, BC17b, BC16b, CJ17a, CGMSR15, CGDM16, CL15c, CCO15, DHW18, EJ18, GMLdS16, Hoo19, JT18a, JMRV16, JP16, JMP17, JP18, JS15, KB15, LDL18, LCWZ19, LL16c, LMM<sup>+</sup>16, Ma15, MN15, MPS17, Miy15, MK18, NMBA19, Nor18, QWW18, Rak17, SLY17, SW18b, Wei17, XSW17, YWD16, ZC15, Zho17]. **inverse-free** [JMRV16]. **Inverses** [LL19, PP17a, WZ17b, BJKR17, BKNS18, BBH16, CFM16, DM18, Dra16a, ELN18, HWZ15, KC16, Niv15, OP16a, OP19b, PSZ15, PCI15, PHW16, RD15, SR18, Shi17a, SSH15, SZW16, XW16, ZMT19, ZZC15]. **inversion** [EGT15, KP19]. **Invertibility** [PPZ19, DS19b, YYMK17]. **invertible** [CS19a, CKT19, KKA15, LY17, Ore16a, Ore16b, PS17]. **investigation** [GO18]. **involution** [BLdSV19, UG18, ZZC15]. **involutions** [AR18, BKRE18, GT16, HLZ17, Hou19, Hou20, LMPM17, dlC15]. **involutive** [FKS16]. **involutory** [Kis15, XX12]. **involving** [CGMSR15, Das18, FI19a, GHK17, HL17b, KMS17a, Lin15a, SS17b, UWYY15]. **Iowa** [GHPS19]. **irrationals** [OZ15a]. **irreducibility** [GJ18]. **irreducible**



[CUPW15, DDL17, DLB18, FBH19, KLS19a, Kim15b, LLV15, LZ16c, MM17a, MP16c, WFS19, Yan18]. **irregular** [NLWJ18]. **ISBN** [Bar15, Bru16a, Tsa16b, Zha15a]. **isoclinic** [ET18]. **Isometries** [Hor17, Nag15, BMN16, BSZ18, BBMP19, Bil19, BJ15, BKS15, BKPS17, BKSP23, Cha15, CGL16, FG16, GS17, GT16, GS15, MMS16, Mol18b, aHRT15]. **isometry** [CCW16, FX19, GG18, Oi19]. **Isomorphism** [Pel17, ET16]. **isomorphisms** [BFD18, GJK18, PR18a, STW19, Wan16c]. **Isospectral** [MGM17, BS18c, DT15]. **Isotonic** [EE16, NN16]. **Issue** [DLW15, BBF19]. **Itô** [WHG17]. **Iterated** [Dal17a, BMZB18, Col19, GP19b]. **iteration** [BB18, Lia17, RW16, RV18, XXZ16, ZZR15, SK17a]. **iterations** [SSH15]. **Iterative** [CA18, FS19a, LC19, AL19b, Had17, RSS17]. **IV** [HW16]. **Iwasawa** [Saw16].

**J** [Dra16b, LCNZ19]. **J.** [Dra16b]. **Jacobi** [AM15b, BW16, BM17a, BKNS18, HP15, KH17, SS15b, Wei15, WP17]. **Jacobian** [KMM17, dB19b]. **Jacobians** [YT16, YdB19]. **James** [AR15b, KL19b, LLH17, PSG16, PSM18, PMW19, SPH15]. **JB** [BCP16, KLL17]. **JB-algebras** [KLL17]. **Jensen** [MPV16, Nie15a, Vir19]. **Jersey** [Bru16a, Tsa16b]. **Jin** [Bru16a]. **Johnson** [Bar15, CHJM18]. **join** [CDR18, IHM08, IK18, Mat15c]. **Joining** [SNDM17]. **Joint** [BFA18, CM19, cSfCFX15, AMC18, ACM17, BF18a, CL19, GMW18, KS15b, Lau18, Pep17, SWZ18]. **Jointly** [Vir19, Alf18a]. **Jordan** [AEKP16, ALH15, AA17, Bal15b, BLdS16, BLPT15, Ben15, BM15, GLAdS19, GW17a, Gow17, GJ18, HA16, IKVZ18, JG16, JG17, KS15a, KVP19, KSTX15, KY17, LNW17, MO16, MP16b, MN19b, MMR18, Pet15, Rad17, TW16, YL17]. **July** [GHPS19]. **just** [Row16b].

**Kac** [Fik18, FM19b, FH19, Sin17]. **Kaczmarz** [BW18, BW19, NZZ15, OZ15b]. **Kaczmarz-type** [OZ15b]. **Kadison** [Hou15]. **Kalman** [RRV15]. **Kaplansky** [DK16, RY15]. **Karaduman** [CL15d]. **Karcher** [FS18b, LK16, SMH19]. **Karlsson** [MB15]. **Karpelevic** [JP17]. **Kautz** [Dal17b]. **Keller** [PC15]. **Kemeny** [Hun18b, MMM19, WDV17]. **kernel** [Pep17, Ram16, San18]. **kernels** [AG15b, AG20, BGKP19, CJW19, GW19b, Pan19a]. **Kerov** [GH15]. **key** [Hun16]. **kind** [KT17, YMZ19]. **Kirchhoff** [DG18, MMS18, RFPS18, RFPS19]. **Kirchhoffian** [Pal16]. **kissing** [Che15a]. **Kittaneh** [Lin17b]. **Kneading** [ABO15]. **Kneser** [DHS18]. **Knill** [MB18]. **Kogbetliantz** [MH15]. **Kolchin** [KLS19b]. **Korea** [CFH<sup>+</sup>16]. **Korovkin** [KNR18]. **Korovkin-type** [KNR18]. **Koteljanskii** [JZC19]. **Krawtchouk** [HK19a]. **Krein** [CMM19, GMP16a]. **Kreiss** [Rao18]. **Kronecker** [BTW16, FS18a, FK18, GF17, HF18, Hil18, Lot15, PRS18]. **Krylov** [CA18, BMS16a, CMV19, CS18a, Dax17, Sch16]. **kurtosis** [Hür15, Lop17]. **Kutta** [BDDSC17]. **Ky** [HRM18, Pet15, TY15].

**Lagrange** [CPW17, VT18]. **Lam** [GKR16]. **Laman** [KS15b]. **Laplace** [Reb19, Sch16, SY17]. **Laplacian** [ASMN17a, GP18, LLS17a, ZL15a, ABC<sup>+</sup>16a, AA19, ARR18, AG15a, ASMN17b, ACPR15, ACRR15, AGRR16, ADLR19, ARSB18, AH16, BK16, BS17, BS15c, BZ16c, BBC18, BCC<sup>+</sup>18, BDVRT15, BH16b, CR17b, CCdFV18, CD16b, CX17, CLR<sup>+</sup>18, Che18b, CLF18, Che19a, Dah15b, DdSJdFDV15, Das15, DMT16, DM16a, DS17a, DG18, DV19a, DL16, EHHL17, EHLP18, lFwW16, FuIKT16, FWB<sup>+</sup>19, FdFdSDV18, GAP16, GCP18, Gho16, GRS17, HvD18, HT17, HQX15, HL19a, JMM16, LZ15b, LZ15c, LwW16, LD16a,



LWCS16, LZ16b, LZW17, LDZ18, LLS17b, LLZ17, LL18a, LHH17, MQTW18, MMM19, NS19, NLWJ18, Obo19c, Ost15, PG15, SW15, STW18, STW19, SV17, TWR15, TWM16, TW18a, WH18, WZZ19, WZL15, XSW19a, XS18, YG15, YQS16, Yua16, ZL15b, ZW16]. **Laplacian-energy-like** [DG18]. **Laplacians** [FCLP18, MM19b, NS17, Nag19, SCD17]. **Large** [BDFR15, dSP16c, dSP16d, BW19, BGM<sup>+</sup>19, BB16a, BDLM16, CR18a, EM17, HK18a, Jia15, LMS15, MNT19, PS19d, VHB18, Yin18]. **large-scale** [BB16a, EM17, HK18a, LMS15]. **larger** [YSS16]. **largest** [ABH<sup>+</sup>19, AB15a, BK17c, Che19a, CLM19b, DMS19, IFwW16, FuIKT16, HQX15, Kim15b, Lin15a, LDZ18, MHL15, McK18, MNT19, Obo16, OQY17, SAdFZ15, Sta19, TW18a, XWD18, YQS16]. **lasso** [WLH18]. **latin** [War17, Shi18c]. **lattice** [EHL18, Joe16, MMR16, MMR17, MMR18, WDFS17, YDYY18]. **Lattices** [BFG<sup>+</sup>16, BF17b, Bie15, LM17, MdIP16, Str18, Yam15]. **Laurent** [Che18a]. **law** [PCI15, XSW17, dCdSA15]. **laws** [NN19a]. **Lax** [AS17]. **Layout** [RR18b]. **LCM** [AYK17, HT18a]. **leading** [De 16b, HJ16]. **learning** [SH15b]. **least** [BZ16c, BBC18, CGDM16, CKM16, CGM17, CRS15, DS18b, Eld15, GRS17, HK18a, JKS15, KL15, KLY18, LM16b, LC19, LHC15, NZZ15, SZ17, UM16, WZL15, Yas16, ZG18]. **Lee** [Mor16b, SSS15, TZK17]. **Left** [Dra16a, HW16, Lie18]. **Legendre** [Reb19]. **Leibniz** [LMO16, CC16, CLOK13, CILL16, KKO15]. **lemma** [Alf15, CS15b, CJ17c, DP15a, Lev15, Cim15]. **Length** [GMM19, WZW19, DF15, DF18, LMS16]. **Lengths** [GMM16]. **Leonard** [AC15, HLG15, LHG15, Nom15a, Nom15b, NT17, SGH16, Ter17a, WHG17]. **Leslie** [Ben18]. **less** [FZwCW16]. **Leuven** [FLVV18]. **level** [KRZ<sup>+</sup>17, MP18, WQH19, Zas16]. **lexicographic** [WW18]. **LFED** [Zha17]. **Lidskii** [MRS15, MRS18]. **Lie** [ABM18, AEV15, AKR15, AK16a, AK16b, BC15a, BdlCL17, BCS15, BCS16, BP19b, CCiT18, CPS17, CCW18, CW15a, CL15a, Chi18, Cos19a, CLP16, Der19, DR17, EF17, EF19, FKPS18, GPI18, HAM16, Hol16, HZ19, HK17, KLS19b, LL19, LZ16c, LZ17c, LGZ18, PR19, RZ17, Saw16, Wan16c, WZ17b, ZK17, Zus17b, vWZ17]. **Lieb** [Bek16, FS17b, Hua19]. **lifts** [CV17]. **like** [AB16, BDP<sup>+</sup>18b, CCGO17, DG18, DA19c, DF15, DF18, LWY16, LZSD17, LZSD18, Mel16b, Nie15b, RW16, VK16, Zhe19]. **likelihood** [Ruk15]. **Lim** [DDF17a]. **limit** [Ban16, LMM<sup>+</sup>16, Yin18]. **limited** [EM17]. **limited-memory** [EM17]. **Limiting** [Tab16, CG15]. **limits** [Bik19, Ege16, Nat19, PR18b]. **Line** [Her16, ALMZ<sup>+</sup>19, CG19a, DF16, Dal17a, DMG16, DM16a, FdC15, GCP18, Gre18, HS19a, LMZRZ18, MST15, Ref16]. **line-Hermitian** [CG19a]. **Linear** [AMR19, ASMN17a, Ali20, Ano16a, AG20, Bal15a, Bal15c, Bal18, BR19, BTW16, BMVW16, BF17b, BO17, BKSP23, CC17b, CR18b, Dog18, Duk15, EKSV18, EP18a, FJS21, FL15, GP18, GWL<sup>+</sup>18, GJK18, GHPS19, HF18, Hou20, HSS16b, KAPS20, KS19, KHI16a, LMO16, LM16a, Lau18, LT16a, LLS17a, LZSD18, LD16b, LD17b, MRV15, Nom15c, PW20, Pud16, RB19, SM18, XFZD17, Yua15, ZL15a, dCDFK18, dS19a, ABP15, AAdFS19, AJ19, ÁKM17, ABO15, ANAPSR17, ABGJR<sup>+</sup>18, AW15b, BW19, Bal15b, BP16a, BLPT15, Bel16, BF17a, BGCMAS19, BS16c, BRN18, BM17c, BL19, BMO15, CEM15a, CVV19, CNX17, CJ16c, CJ16d, CJ17c, COS18, CFNP17, Cus17, DGCC16, DGGP18, DS18b, DdFR16, DU16a, DN16, DN18, DdC16, EE16, Ema18, EJ19, FM17, FHS17b, FKPS18,



GM15, GSP16, GC19, GR15, Gow16]. **linear** [Grc18, GBRS15, GHT16, Hla15, HR16, HS19b, Hoo19, HM17b, KL18a, KKA15, Kis15, KÖ16, LNT16a, LPPZ19, Lee19b, Li15a, LX17, LLL17, Li19, LS18b, Lom17, Mar18, MSSZ17, MMR16, NA15, NN19b, NINS16, NT19, NP15a, Nie15b, Obe16, Olk15, ÖK18, PSG16, PSM18, dSP19a, PMB15, Ram17, RJK18, RH15, RT16, RW17, SFW18, SR18, SNP16, SDK17, SK17b, SSS15, Shi16b, Shi16c, Sug17, SS15c, TZK17, TXZ18, VGG17, VF17, VG18, Wan16b, WZL17, WT18, WLL19, Wan19, Wój19, XX12, wXL14, XvdBvdLS15, wXZ19, YLT16, Yin18, ZD15, ZZR15, ZC15, ZH17, ZLQ16, Zhu19]. **linearization** [BŚS18, VT18]. **Linearizations** [MP16a, PM18, AB16, BDFR15, BBFF17, CCGV<sup>+</sup>19, DA19a, DMQ19, FS17a, NP15b]. **linearly** [Mar15a, MC19, Vij15]. **lines** [CGSZ16]. **Liouville** [GM16a, YSZ17]. **Lipschitz** [AAdFS19, BP16a, BZ16b, GMW18, Oi19]. **list** [HMPT18]. **lists** [AMR18, BCJ<sup>+</sup>16, JZ18, MAR17, MN19a]. **Littlewood** [AP15a, ANAPSR17, Nun17]. **LNED** [Zha17]. **load** [Zha15c]. **Local** [AKR15, AK16a, AK16b, AA17, CW15a, CL15a, Cos19a, CDH18, LZ17c, MRS18, AAM15, ABM18, ÁVAK<sup>+</sup>19, BM17a, BE15, Ben15, BM15, BL18c, BCP16, CP16a, CJ16c, Cos16a, CS18b, CQS18, EJ17, EG15, Est16, HLM17, NT19, NP15a]. **local-global** [NT19]. **Localization** [BM18, BM16a, LJL16, Mel19, NN19a]. **localizations** [SKC18]. **locally** [AW15b, Beh17, Bik19, Che18a, DF16, Man19, TXZ18]. **location** [AAS16, FHJT19]. **loci** [BBT15]. **locus** [Jel18]. **Log** [AGS17, HL18, Hia19, BDK<sup>+</sup>17b, Hia16b, LS18a, Min17]. **Log-Determinant** [Min17]. **Log-majorization** [AGS17, Hia19, Hia16b]. **Log-majorizations** [HL18, LS18a]. **logarithm** [Miy19]. **logarithmic** [BES16]. **logarithms** [BNST17]. **logistic** [KM18]. **lollipop** [BP15]. **long** [GH19]. **look** [UZ19]. **look-ahead** [UZ19]. **loop** [BGM<sup>+</sup>19, BBGM16, GSZ16, SZ17, Zaj19]. **loop-free** [GSZ16, SZ17, Zaj19]. **loops** [AvdHS15, AvdHS16, GPI18, Sim19]. **loose** [Xu17a]. **loose-coherent** [Xu17a]. **Lorentz** [Bal15a, HC19]. **losing** [BdP18a]. **Lovász** [OP15]. **Low** [BA15, GS19b, RSS17, BB16a, BR16b, CCO15, FS19a, GH17, HKM18, IHS16, KU16, MS19, Mor17, OVW18, PQY15, RGP16]. **low-dimensional** [BB16a]. **Low-rank** [BA15, GS19b, FS19a, GH17, KU16, Mor17, PQY15]. **Lower** [AR16, AP15a, CLL15, DTZ16, TWM16, WWC18, AL15, ARS17, AdFRR18, Bal15c, CR19b, HW15b, Mor17, Obo19b, SP16, ACRR15]. **lower-upper-lower** [SP16]. **Lowering** [Ter15]. **Lowering-raising** [Ter15]. **Löwner** [Pas18]. **LS** [MVPST19]. **LS-category** [MVPST19]. **LSMR** [HKP17]. **LSQR** [CN19a, HKP17]. **Lur’e** [SL16]. **Lvov** [DK16]. **Lyapunov** [eFLYL15, Gór17, GX16, GX17, GX19]. **MacWilliams** [TZK17]. **made** [Kal16]. **magic** [JKKL15, War17]. **magnetic** [FCLP18]. **main** [HKLQ16, HHL15]. **maintaining** [MGM17]. **Majorization** [DGS18, Fie15a, Nie15a, AGS17, Dah15b, EE15, EM15, Gow17, Hia16b, Hia19, Lin15c, Lju15, LD16b, LD17b, NA15, Obo19a, Obo19c, PP15, XF17]. **majorizations** [HL18, LS18a]. **majorizing** [Sab19]. **Malcev** [HAM16]. **manifold** [BA15, DH15, DSX15]. **manifolds** [BC19a]. **map** [BP16a, Dym16, MPS17]. **mapping** [Cus17, GMLdS16, Tsa16a]. **mappings** [AAdFS19, BMGP15, CC17b, DGK<sup>+</sup>17, DKS15, DdFR16, FJ17, FJM18, eFLYL15, FHS17b, MSSZ17, Wój19, WMC15, Zha18b]. **Maps** [AAM15, BE15, BM15, KP17, MPV16, Pet15,



ZH15, AKS17a, AKS17b, BS16c, Bou16b, BL18c, BL19, CP16a, CHK19, CKL17, CKT19, COS18, Cos16a, Cos16b, Cos19b, DdC16, EJ17, EP18a, FMR19, Gow17, HF18, HYH15, HLS<sup>+</sup>16, KVP19, LT12, LT16a, LT16b, LY17, MR17a, Mar18, MS16b, MM17c, Nie15b, Oi19, Ong18, PC15, QH15, SDK17, SK17b, STZ15, Vir16, XFZD17, YT16, YdB19, YLT16, YL17, dB19b]. **Mardia** [Hür15]. **marked** [CFP18]. **Markham** [LZ17b]. **Markov** [BPZ17, BK17c, BCF<sup>+</sup>18, CLR19, Cho19, GZB19, Hun16, Hun18a, Hun18b, JLT17, LZ15a, Mas17, Reb19, SY16a, Sab19, Sku17, SH15b, VB18, Vas15, WC15]. **Markovian** [GCQX15]. **mass** [HZC15]. **matchable** [AJ19]. **matching** [Ash19, HHL19, MWT16b, TH17, TWM16, TW18a, WWC18]. **matchings** [Mes17, MM16b, TD15, YG15]. **mates** [CHJM18]. **Math.** [Zha15a]. **Mathematical** [Zha15a]. **Mathematics** [Bru16a]. **Matic** [Zha15b]. **Matrices** [AR15a, Bre18, CLST18, CSJ16, GS17, GdLL17, Hil17a, LdIP15, RFPS18, AMR<sup>+</sup>16, AOK15, AM19, AAS18, ATM18, AG17, AMR19, AJL16, AK19, Alf18a, APS18, ANP16, Alo15, AKYD16, AYK17, ACM17, AMZ16, AdF19, ARS17, AMNR18, AMR18, AMG19, APT17, AGV18, ABK19, AL19b, BJ16, BW16, Bai18, BFFN16, BM18, Bal15a, Bal15c, Bal17b, Bal18, BM16a, BS15a, BK19, BBdH16, BBdH18, BDDO16, BP16b, BBH16, Bar16b, BGS15, BGM<sup>+</sup>19, BF18b, BF19a, BŚS18, BM19b, BE15, BN17, Ben18, Ber17, BS16c, BJL19, BC19a, Bie15, BDLM16, BR16b, BBGM16, BBC<sup>+</sup>15, BDS15, BC17a, Bor17, BC19b, Bot16a, Bot16b, Bou16b, BM15, BC15b, BSS17, BGSS18, BHSS18, BS16f, BM16b, BaHOS15, Bri17, BCU15, BGGs16, BD19, BR18, BÓ15, BO17, Bur15, BV18b, CCiT18, CRX15, CU18]. **matrices** [CC19, CDR18, CEM15a, CR19b, CLR19, CPZ16a, CGMSR15, CM18, CHK19, CR18a, Cha19, bCR18, CRC17, CS19a, CS19b, CLW15, CXLF16, CIY15, CL17b, CKS16, CJB18, CS18a, CK19, CN17a, CN17b, CN18, Cho17b, CKT19, CS15b, CHB15, Chu19, CI15a, CI15b, Chu15, CM19, CD16c, CW16a, Cos16a, Cos16b, CJW19, CLP16, CLS17, DD17a, Dah15a, DA19a, DA19c, DB19a, Dax17, DDCY17, DeV19, DD16a, DD19, DAG16, DEH16, DDF17b, DFK<sup>+</sup>15, Dmy16, Dmy19, DO16, DL16, DMQ19, DM18, DdF15, DE15, DN16, DdC16, DS17b, DU16b, DKPU18, DHW16, Dya17, ELN18, Ege16, Egg15, EHK16, EM16, Ern18, EGT15, ET18, EW19, Fag19, FOvdD16, Far19, FT16, FMR19, FdC15, FM19a, Fie15b, FGH<sup>+</sup>15, FM16, Fik18, FM19b, FI16, FKM17a, FR15, FR18, GG18, GSW16, GSSvdD16]. **matrices** [Gar17, GW16b, GWW16, GL19, GXYZ17, GH17, GIM16, GM16b, GT17, GMP16c, GW19b, GHT16, GHK17, GLRT18, GL15b, GL15a, GL16, GMM16, GS16, GJK18, GT18, GMM19, HS18, HKM18, HvdD16, HT18a, HAWM16, HS17, HJW19, HL17a, HJ16, Hil17b, HW15b, HP15, HT18b, Hon18, HLZ17, Hou19, Hou20, Hru16, HWZ15, Hua15, HSS16b, lHS16, HNR16, HLS<sup>+</sup>16, Hua19, HL19b, Hür15, HK18b, IKVZ18, IW15, IHM08, IK18, IKW16, Jai17, JT18b, JS16, Jia15, Jin15, JSST16, JZ16, JT17, JZ18, KLS19a, Kan16, KS17, Kar16, KLP18, KKL<sup>+</sup>17, Kim15b, KL15, KLL16, KK18, KLL19, KQZ16, Kis15, KL17, KM16, Kob17, KLS19b, KK17, KY17, KH17, Koz16, Kur19, Kus15, Kus16, LL17, Lau18, LLPS19, Lee15b, LP15, Lee15c, LL19, LT16b, LZH16, LDL18, LCWZ19, Lia17, Lie18, Lin15b]. **matrices** [Lin16b, Lin17a, LZ17b, LL15c, Liu15, LY17, LT19b, Lék16, LS17b, LSM16, LSM18, LMR16, Lyn15, MO16, MY16, MM19a, MS16a, MAR17, MS15a, MM16a, MMP17, MMV19, Mar16, Mar15a, MV16, Mat15b, Mat15c, MP16b, MP16c, MN19a, MNT19, MN19b, Mol18a, MS15b, MPV16,



MM15b, Mor17, ME15, MMW17, MHN18, MP15b, MP19, NMBA19, NS15c, Ngu18, NW19, Nie19c, Nik16a, NA17, Niv15, Nob16, NK18, NSCV16, OW17, OVW18, OS17, OP16a, Ore16a, Ore16b, OP19b, Ost15, OBRA15, PSZ15, PT19, PS18a, Pas19, PM15a, PCI15, dSP16a, dSP16c, dSP16d, dSP16e, PM15b, PS19d, PR19, PS16, PS18b, PP18, PHW16, PW19, PW20, RS17a, RS17b, Ris16, Riz19, Rob19, RAAGA16, Roh18, RS18, Rub19, Sal16, SSCS16, SR19, Sch16, SK17a, Ser16, SA17, Sha16, SK17b]. **matrices** [She17, Shi16e, Shi18a, SSV17, SCD17, SH15b, SS18, SB18, SUY16, Sol18b, SW18a, Sot17, SJS15, SS15b, SV17, Ste18, SSB15b, SG17a, STZ15, SWZ18, TH16b, Tan16b, Tan19, Tar18, TS18, DDMV16, Ter18, TW18b, Tsa16a, TW19, TCD15, TC15, TG19, Ulu19, UG18, VB18, VQ17, VQ19, VV18, Vec16, VHB18, VLGS15, VB19, Wan15a, WLP16, WQH19, WLL19, WZ17b, WMC15, WHC17, XW16, XX12, wXL14, XFZD17, XSW17, wXZ19, Yan16, YDHX18, Yin18, Yor17, YZZ18, ZS17, Zha18c, ZMT19, Zha19a, ZLLL18, Zhe19, ZM16, ZF15, Zim15, dCFF17, dICMP15, dICMP17a, dICG18, Tsa16b]. **matricial** [FKM17a, FKM17b, FKMS18, HZC15, JP17, ZHC16]. **Matrix** [AMH11, BLdSV19, Bru16a, BPT15, Che18d, CP17, DKS17, Eve18, He15, KM15a, MN15, MHA18, MP16c, Nat19, PW18, PV17, Rao18, ZSQZ19, Zhe19, AMR<sup>+</sup>16, ARS16, AG17, ARR18, ASMN17a, ASMN17b, Ais18a, AGH17, ABG16a, AGS17, AGN18, AB16, Al'17, AB15a, AMZ17, ADW19, ABD19, AL16, ACDT<sup>+</sup>15, ABK19, AA17, AB18, BR15, BmBCC17, BS15b, BS16a, BES16, BDG15, BB18, Beh17, BGKP19, Ben15, BGT<sup>+</sup>19, Ber18, BLY16, BR16a, BHK16, BFD18, BHP17, BA15, Bou15, BDK<sup>+</sup>17b, BC16b, BaHOS15, BS19c, BDFR15, Bün17, BR17, CL19, Cal16, CJ17a, CG15, Cha15, CCGV<sup>+</sup>19, CLT15, CMQV16, CPW17, CLR<sup>+</sup>18, CLM19a, CJ15, CA19, CJ16b, CS17, CYD19, Cim15, CDTZ15, Cos19b, CHT19, DGS18, DdSJdFDV15, DA19b, DI16, DDL17, DDMP19, DR16, DKS15, DHLT19, DF15, DF18, DPR19]. **matrix** [DD17b, DFKS17, Dmy17, DD18, Dod16, Dod17, DKNS16, DPS19, DU16a, DPV19, DE15, DvSW18, EKSV14, EKSV18, EEV17, EH15, EJ18, Ere16, FI19a, Fas19, FS17a, FS18a, FS17b, FdC18, FMM16, Fis17, FHS17a, FK16, FKM17b, FKRS17, FX19, FKS16, GGMP15, GW16a, GW17a, GWW19b, GWW19a, Gil16, GS19b, Gol16, dMGC19, Guo19, GLMS18, HLPS19, Hay19, He16a, HAWM16, HNS15, HR17, Hia16a, Hir18, Hoa17, HC15, HFS15, Hu15, HNR16, HN18, Huh15, Hut17, JMRV16, JLD17, JLDS18, JCW19, Kal18, KS15a, KM15b, KK18, Kis15, Kli19, KPL18, KIS18, KT15, KB15, KMOR19, LMS16, LMS15, Lee15a, Lee19a, Lev15, Li15b, LWY16, LM19, LLSX15, LLL15, Lin16b, LdP15, LW15, LLH17, Lop17, LG18, LMPM17, Mac16, Mac18, MP16a, MR17a, MI17, MR17b, MOR16a, Mat15a, MP17, MNTX16, Mel15]. **matrix** [Mel16a, Mes17, MR19, MRV15, Mig16, Miy15, Miy19, MGM17, Mon17, Mys16, NS15a, Nev18, NP15b, NR16b, OZ15a, Pan15a, PRS19, Pas18, dSP15, dSP19a, PM18, PPZ19, QWW18, RRT16, Rin17, Riv15a, Riv15b, RMP18, Rum18, RB19, Sab16, SR19, Sas18, Shi16f, Shi18b, SÖ16, SZ19, STW18, STW19, SS19, Tab16, TY15, TW17, Tom15, TVD15, iT16, iT19, UZ19, WYL15, Wei15, Wim16, WC15, XSW19b, XXZ16, XX12, wXL14, XvdBvdLS15, Xu17b, wXZ19, Yas16, Ye17, YYSX19, You15, YWD16, ZD16a, ZD16b, Zho17, dCDFK17, dCDFK18, dIC15, dICF16, dICMP17a, dICdR17, vWZ17, MM19b, Bar15, Zha15a]. **matrix-products** [BR15]. **Matrix-tree** [BPT15]. **matrix-valued** [FKM17b, Lee19a]. **matrix-variate** [Mat15a, MP17]. **Matroid**



[GRV16]. **matroids** [MFdM15, Pea15]. **Max** [Hoo15, Hoo19, Nik16b, EHN16, GMW18, Li19, MP15a, Mys16, MP19, PS18b, RLP19, Ser15, Shi16b, WT18, ZD15, vDS16]. **max** [vDS16]. **max-algebra** [PS18b]. **max-min** [MP19]. **Max-plus** [Hoo15, Hoo19, EHN16, Li19, Mys16, RLP19, WT18, ZD15]. **Maxima** [NY15, Yua14, Yua15, dFNP16]. **Maximal** [BR18, DO16, Mes17, NS15c, dCDFK17, dCDFK18, CRVSS19, DMS19, DF15, DF18, EEV17, GH16a, LZ15b, LCNZ19, PS15, Ter18, ZHC16]. **maximality** [HT17]. **maximally** [GW19a, Poo15]. **maximized** [dSN15]. **maximizers** [LT19a]. **Maximizing** [EH15, GRS17, HSS16a, Kol15, NLW18]. **maximum** [BWSZ15a, CU18, CC18, De 16b, DdF15, FdC18, HZC15, HLW15, HW15c, HZ15, IKVZ18, LMZRZ18, LLS17a, LLS17b, MO18, OS17, VQ17, XWL17, ZW16, ZWS18]. **maximum-volume** [MO18]. **Maxwell** [KS15b]. **Mazur** [WH19a]. **MB** [LQL15]. **MB-tensors** [LQL15]. **MCMC** [BL15]. **MCMC-based** [BL15]. **mean** [BHML15, BJL19, BK17c, FS18b, FS19b, HL17a, Hoa17, Hun18a, IKW16, KL15, KLL16, KLL19, Nob16, NK18, Pep17, SMH19, Zou17, Zou19]. **means** [BLY16, DKS17, DDF17b, DU16a, FS17b, Han19b, HK17, KK18, KLL18, LK16, MHA18, Mol19, Sab16, UWYY15, UYY17]. **measurable** [Bar17b, CRVSS19]. **measure** [BŠS18, DP15a]. **measure-extension** [DP15a]. **measurement** [Ema18]. **measures** [ACM17, AM16b, BFM19, HZC15, KL15, MS15a, MS15b, dIPJG18]. **mechanical** [BTN<sup>+</sup>18]. **mechanics** [BdP18a]. **median** [YYMK17]. **meet** [IHM08, IK18, Mat15c]. **meeting** [FLVV18]. **Melbourne** [Bar15]. **memory** [EM17]. **Mercer** [Nie15a]. **Merging** [MR17a]. **Merikoski** [AKYD16]. **Mertens** [CK19, Kli19]. **Metcalf** [MF16]. **method** [ATM18, BM17a, BW18, BW19, BFN15, BB18, BKLP16, BŠS18, BMS16a, Bel16, BV18a, CVV19, CGSC19, CP16b, Cox15, CFNP17, Fas19, FT18, FG17, GH16a, Guo19, HK18a, Her16, KR17, KH17, KPRvdO16, KL18b, MLW15, MH15, MP18, NZZ15, Pas19, RW16, Sch16, WP17, XXZ16, wXL14, wXZ19, ZLQ16, SK17a]. **methods** [AL19b, BT17a, BFM19, BHK16, CDRT17, DU16a, Gór17, Had17, HS19b, JKP16, LG18, LNT16c, Nik17a, OZ15b, PS19d, PW18, RR18a, SLY17, VK16, Zas16, ZZR15, Zhe19]. **metric** [CPZ16a, LCF19, Wol18]. **metric-preserving** [CPZ16a]. **metrics** [Ber17]. **Metzler** [Bri17]. **Milner** [GLW17]. **min** [MP19]. **Minimal** [Dod17, IKR16, Ple17, dCFF17, BR19, BSP18, BDP<sup>+</sup>18b, CR18a, DA19b, DA19a, DA19c, VD18, DPV19, DV19b, DL15, GLMPC18, dMGC19, HM17a, LWC18, LCNZ19, MM15a, OQ18, OS17, SP16, SS17b, DDMV16, DDV16]. **minimally** [FGS<sup>+</sup>16, SG16]. **Minimising** [BK17c]. **minimization** [CDTZ15, LC19]. **minimize** [JKS15]. **minimizing** [BBC18, DSX15, LS15a]. **Minimum** [BWSZ15a, CG16, FGG<sup>+</sup>18, HLPS19, PF18, AAG<sup>+</sup>19, Cos16b, DM16b, GS19a, HWXC18, JLDS18, LOS19, MS16b, NS18, NA17, NLW18, SWB19, ZM16]. **Miniversal** [Dmy16, Dmy19, BSS17]. **Minkowski** [Hor17, JM16, Liu16a]. **minor** [Bil19, Nik17c, RKT15]. **minors** [BS16e, BC15b, SUY16, dCdSA15]. **minus** [DFM17]. **minuscule** [MM15a]. **Miroslav** [RRS16]. **MISO** [BPZ17]. **missing** [Dal19, JZ18]. **Mitra** [Rak17]. **Mixed** [DS18b, MP18, WYLW17, ARS16, AM15b, Bar16b, CLZ16a, CP16b, De 16a, FKD15, Gow16, HLLZ17, KÖ16, LL15c, Moh16, ÖK18, RH15, Wan16b, WLWZ19, Wei15]. **mixing** [Lev15]. **Mn** [COS18]. **Mn2** [COS18]. **Möbius** [Bur18, CR18b, DGSV17, HM16]. **mock** [Zus17b]. **mock-Lie** [Zus17b]. **modalities**



[Dog18]. **Model** [WLH18, BFFN16, BCMASS15, HvdD16, KM18, LHC15, Mar15b]. **models** [DV18, Ema18, FL15, GH16b, HPZ19, KÖ16, ÖK18, QWW18, RH15, Ruk15, SNDM17, Wan16b, Zha15c]. **moderate** [ET16]. **modifications** [SSB15a]. **modified** [AL19b, CLLS19, JM16, JLM18, wXL14, wXZ19]. **Modular** [HMS17, SY15, Shi16a, TC15]. **modularity** [BBC<sup>+</sup>15, FT16, FT18]. **module** [CD16d, Gua18, IKR16, LT12, LT16a, LMX19, Shi16g]. **Modules** [HCS17, CPS17, Gon15, LZ16c, LZ15e, MM17a, MEMM17, XF17, Yan18, dSRST17]. **moduli** [AGS17, Pie18]. **modulus** [Cos16b, MS16b, XXZ16, wXL14, wXZ19, ZZR15, ZLQ16]. **modulus-based** [XXZ16, wXL14, wXZ19, ZZR15]. **Mohy** [Fis17]. **moment** [CIY15, CJ16b, DE15, EGT15, FKM17a, FKM17b, FKMS18, HZC15, LM17, Lop15, PS19e, Riv15a, ZHC16]. **moments** [Lék16]. **monic** [CK15a, FK16]. **monoid** [CDG16, CLR16]. **monomers** [NS15a]. **monomial** [Lax16]. **Monotone** [Sch16, BU18, DDF18, Hoa15, JS18a, Mas17, Naj17, Nob16, Pas18, iT16, iT19]. **Monotonic** [Grc18, AB15a]. **Monotonically** [ZF15]. **Monotonicity** [LG18, WL15, Cas19, DKS17, DDF17b, GMW18, Nag19, NW15]. **Monte** [WC15]. **Montgomery** [Cox15]. **Moody** [Sin17]. **Moon** [LN17]. **Moore** [AB18, CGMSR15, CGDM16, Dal19, HWZ15, KB15, Nor18, XW16, XSW17]. **Moreau** [Sol19]. **Moreau-type** [Sol19]. **Morphisms** [Cha19, EC19, CLR16, DKNS16]. **Morrison** [ACM15]. **Moser** [LN17]. **most** [Alf18b, CJ17d, EHK16, PS19a, TW17]. **Mostow** [GM17]. **MRD** [CMPZ18, GZ19]. **MRD-codes** [CMPZ18, GZ19]. **MUBs** [Kar16]. **Muir** [dCdSA15]. **multi** [AKPS19, CJ17b, KAPS20, XLQC16, Zas16]. **multi-dimensional** [AKPS19, CJ17b, KAPS20]. **multi-hypergraphs** [XLQC16]. **multi-level** [Zas16]. **multigraph** [McK18]. **multigraphs** [Gu16, O16]. **Multigrid** [CDRT17, BDDSC17, BHK16]. **Multilinear** [Ano16a, BMVW16, CW16a, BT15, BM17c, CR19a, DGK<sup>+</sup>17, DKS15, DK16, Fag19, LT16b, Pop16b]. **multiparameter** [HY18]. **multipartite** [BK18, BSMSZ19, HK19b, Obo19a, Obo19c, WYL19]. **multiple** [Ais18b, AM15b, BBT15, BDK<sup>+</sup>17a, BTN<sup>+</sup>18, CDMP15, CKM16, DKSV19, LPPZ19, NSCV16, PM15b]. **multiplication** [Beh17, CYD19, DK18]. **Multiplicative** [CGDM16, CL16, MRS15, XSW17, CJZ18, Hil15, Hil17a, MI16]. **Multiplicatively** [BL18c]. **multiplicativity** [San15]. **Multiplicities** [FdFdSDV18, Piv19]. **Multiplicity** [JZ18, ARSB18, BK15, BK16, BCJ<sup>+</sup>16, CR17a, CPR18, ET16, JDS17, JLDS18, JST19, LHH17, MQTW18, OS17, Row16a]. **Multipliers** [JC18, LH17, PQY15]. **multisplitting** [ZZR15]. **Multivariate** [CHK17, FKD15, Han19b, HKM18, KRZ<sup>+</sup>17, KRZ<sup>+</sup>18, KPRvdO16, LW15, LLH17, Lop15, Ruk15]. **Murdock** [Fik18, FM19b]. **mutation** [CKS16]. **Mutually** [BL16, Kis15, Lie18, MB15, Szá16, XX12]. **Narayana** [AMPT16, Bar16a]. **natural** [Lie18]. **naturally** [CLOK13, LMO16]. **Near** [MOR16a, DL15]. **Near-invariant** [MOR16a]. **nearest** [GKS19]. **nearly** [MOR16a]. **nearness** [HNR16, NR16b]. **necessarily** [Mon17]. **Necessary** [Bar17a, Li15a, LS17b]. **negative** [FW17, GSZ15, GSZ16, GJK18, JLM18, Koz16, LS19, MM19a, SZ17, TW17, Wol18, Zaj19]. **Neighborhood** [BSS17]. **Nekrasov** [OP19b]. **nest** [CL15a]. **nested** [AAC<sup>+</sup>15]. **network** [GZB19, QWW18, Sar19, SZW16]. **networks**



[AM16b, Ban16, BS18c, CEGM16, CEM19, Est16, KKL<sup>+</sup>17, Kir15, Zha15c, UZ19]. **Neumann** [JC18, CHASSSG15, CQCZ19, CW15b, DHL<sup>+</sup>17, DGCC16, DU16b, DKPU18, LZ17c, PR18b, SCD17, WFS19]. **Neural** [SZW16, UZ19, QWW18]. **Newton** [SK17a, BV18a, CFNP17, EG19, EM17, Guo19, LG18, PM18]. **Nice** [CW17]. **NIEP** [Ben18]. **Nikiforov** [AR16]. **Nil** [BM16b]. **Nil-clean** [BM16b]. **Nilpotent** [HA15a, IKVZ18, LS17a, VF17, AW15b, BdlCL17, BP19b, Bre18, BO17, Che18a, CXL16, Chi18, DO16, EL16, GLAdS19, GS15, HA16, JS19, Pel17, Ste18, TXZ18, WL16, YT16, YdB19]. **nilradical** [BCS15, BCS16, CLOK13, LMO16]. **nilradicals** [KKO15]. **NMF** [Miz16]. **No** [LMT19, AM18, Nik17c, PZ17b, dFNP16]. **Nodal** [Urs18]. **nodes** [PCL15]. **Noetherian** [Kwo16]. **Noetherianity** [Bik19]. **Noise** [HKP17, Hoo19]. **Non** [ABG16a, AYK17, Bal17a, BPR17, JKS15, Ser16, Zus17a, AGHN18, BSS18, BGCMLSSS16, BGdCCMSS17, DP16, FuIKT16, Fil18, FJ19, GSZ15, GSZ16, HLPS19, HAM16, JLM18, uIKF15, KM19, Koz16, KNR18, Kwo16, MM19a, Nev18, PP18, SSF16, SZ17, Vas15, WZL15, Yin19, Zaj19, ZG18, ZLQ16, Ziz16, cSfCfX15]. **Non-Archimedean** [ABG16a]. **non-autonomous** [SSF16]. **non-backtracking** [AGHN18]. **Non-bipartite** [JKS15, WZL15, ZG18]. **Non-commutative** [Ser16, KM19]. **Non-divisibility** [AYK17]. **Non-existence** [BPR17, Fil18, FJ19]. **non-extendability** [BGdCCMSS17]. **non-Hermitian** [BSS18, Yin19]. **non-holomorphic** [Nev18]. **non-homogeneous** [Vas15]. **Non-integral** [Bal17a]. **non-Lie** [HAM16]. **non-modulus** [ZLQ16]. **non-negative** [GSZ15, GSZ16, JLM18, Koz16, MM19a, SZ17, Zaj19]. **non-Noetherian** [Kwo16]. **non-normal** [BSS18]. **non-odd-bipartite** [FuIKT16, uIKF15]. **Non-Orthogonal** [cSfCfX15]. **non-Runge** [BGCMLSSS16]. **non-self-adjoint** [KNR18]. **Non-semigroup** [Zus17a]. **non-standard** [PP18]. **non-stationary** [Ziz16]. **non-symmetric** [DP16]. **non-zero-entries** [HLPS19]. **nonassociative** [Bre17]. **nonautonomous** [Dra18]. **Noncommutative** [DH19, DvSW18, LNW17, Pas18, Vol17]. **noncommuting** [Sot17]. **noncompact** [Saw16]. **Noncrossing** [dS18a]. **nondegenerate** [ZHC16]. **nonderogatory** [GLMS18]. **nonequispaced** [KP19]. **nonexistence** [FHH15, Mic16]. **nonincreasing** [DdC16]. **Nonlinear** [BB17, Cos19b, MS16b, WMC15, BHP17, Cos16b, Fay18, LM19, Mar15b, Sab19, WYL15, XXZ16]. **nonlinearly** [EH18]. **Nonnegative** [ES16, SA17, SJS15, TH16b, AG17, APS18, ARSZ15, AMR18, BF17a, BC17b, BS16f, CU18, CCCNT19, CHB15, EHK16, FBH19, FdC15, GH16a, HYY15, HK18b, JP16, JMP17, JS15, JRS19, Lee15b, LLV15, Lia17, LS17b, MPS17, MP16c, Shi16e, SW18b, SW18a, TCD15, VB18, WLP16, YHY15, Zha18c]. **nonnegativity** [AG16, AG17, GW19b]. **Nonoscillation** [Sug17]. **nonoscillatory** [SH15a]. **nonreal** [Sam17]. **Nonscalar** [Mel15]. **nonseparable** [HL17c]. **nonsingular** [AMG19, BBdH18, BHSS18, BWSZ15a, HWXC18, MY16, Sol18b, VQ19, ZLLL18, dFRS16]. **nonsingularity** [Liu15, Liu18]. **nonstandard** [AR18]. **Nonsymmetric** [Bou15, HZ15, Had17]. **nonuniform** [Col19, Dra18, Fre18]. **nonzero** [BOvdD17, FGG<sup>+</sup>18, Gao18, MM17b, RS17b, Shi17b]. **Nordhaus** [EA17, HL19a, LOS19]. **Norm** [CM16, GHK17, JLM18, AKS17a, AKS17b, AdlPR16, ARR18, AN17, Alo15, BLY16, CR19a, CLZ<sup>+</sup>16b, eFLYL15, GH16a, GS19b, GMO19, GLRT18, HT18a, Hay19, Hia16a, Hoo19, HMT19, Hu15, JM16, KMS17a,



Li15b, LL15b, LCWZ19, Nik17a, NA17, OP16a, Pet15, Reb19, SPH15, SS15a, Tan16b, WDFS17, XCJ18, Zha18c]. **norm/energy** [NA17]. **Normal** [JSST16, JT17, BSS18, BD19, Cus17, DDL17, EG15, GSW16, GMP16a, GMP15, GMP16b, GMP16c, GBRS15, HZ15, HN18, IW15, IGW17, Joe16, KS15a, LWC18, Lin15b, LdlP15, LLH17, Nie18, Nie19a, SZ23, SG17a, YZZ18, dlCG18]. **normality** [BF18b, FKD15]. **normalizable** [MS16a]. **normalized** [BM17b, BCC+18, BDVRT15, BH16b, DS17a, LSZ18, MMM19, SY17, cSfCX15]. **normally** [ARR18]. **normed** [BJC15, CSW17, KS15b]. **norms** [CDMP15, CL15b, ELN18, GMW18, JM16, JLM18, Ken16, Lev15, LT12, LT16a, MRS18, OP15, PSZ15, Sab15, WL15, Zha19b, Zou19, Nik16a]. **Northcott** [LZQ19]. **Note** [Ano18-44, BaHOS15, CLF18, DHL+17, ySpW17, Sri17, YG15, Bün17, Bur18, Dra18, FR18, GHT16, HKLQ16, HMSC19, Kum19, LHX18, LLS17a, LLS17b, NMBA19, NR17, Nor18, PS15, Rak17, Rod19, SZ23, SDK17, SSS15, Shi16e, Sin17, STW19, Str18, Wan15a, XF17, Zhu19, Zui17, dSRST17]. **Notes** [CW19, DU16b, SAdFZ15, DKPU18]. **novel** [DAG16]. **nowhere** [MS16c]. **nowhere-zero** [MS16c]. **NP** [BC17b]. **NP-hard** [BC17b]. **Nuclear** [Pop16b, BM17c, Hu15]. **Nuclei** [TZ19]. **Null** [KVV17, Ris16, CCW16, JMPS18, Kul15]. **Null-** [KVV17]. **Nullities** [TH17]. **nullity** [FdC18, zSqST15, WZ15, ZWS18]. **number** [ACT16, AAKS17, AB15a, AL15, Ash19, BL18b, CC17a, CLT15, CUPW15, CW16b, Cox15, DR16, FMY16, FdC18, HLPS19, HHL19, HZ15, IL17a, JL16a, JDS17, JLDS18, LOS19, Lin15a, Lin19, LL18a, LLT19, MWT16a, MWT16b, PF18, QKP16, Ram17, RMS16, TH17, TWM16, TW18a, Tom15, TD15, WM17a, WZL15, WWC18,

Xu17b, ZLG17, Zim15, vDS16]. **numbers** [ABD19, BZ16a, CDR+19, Che18d, DTZ16, DS18b, KM19, Lee15b, ME15, Van17, WYL15]. **Numerical** [AOK15, Ano16a, Bal19, BBP19, BMVW16, CJK+16, GW16b, GWW16, GO18, KLN16, PW18, Sab18, She17, AOK19, AAS18, AMC18, AR18, AMR19, AK19, BFA18, Bal17b, Bal18, BFM19, BD15b, CJ17a, CDM19, CC17b, CCCNT19, CL16, CN15, CNY18, CN19b, CNM19, CJ17c, Dax17, DGP+15, FK16, GW16a, GW17a, GW18, GWW19b, GL19, GWW19a, HA15b, HMNP15, KS15a, KKP19, KMY15, Kum19, LNT16b, LLPS19, Lee15c, LTWW15, LSZ18, MR17b, SPBB19, SWZ18, Zam19, Cha15]. **Numerically** [PZ17b, PQY15].

**objective** [Fay18]. **oblique** [BB17, BMS15]. **observations** [Sma15]. **occasion** [BBF19]. **odd** [Ash19, DF15, DD18, ET18, FuIKT16, FKM17a, FKM17b, HZ17, uIKF15, LDL18, MWT16a, Yua14, Yua15]. **off** [BMR17, Lee15a, PPZ19, SP16]. **off-diagonal** [BMR17, Lee15a, PPZ19, SP16]. **often** [Sol18b]. **Old** [Fie15b]. **Oliver** [MB18]. **one** [BM19b, BCF+18, BCU15, EF17, EF19, FK18, FS19a, Gas19, HSS16b, JLDS18, KOST15, LS18b, SSB15a, TXZ18, EHHL17]. **one-dimensional** [EF17, EF19, EHHL17]. **one-parameter** [KOST15]. **one-peak** [Gas19]. **ones** [BL18b, TVD15]. **only** [FJ19, SS17b]. **Onsager** [BGV17, Ter17b]. **onto** [BFN15, FG17]. **open** [Beh17, DK18, YHY15]. **operations** [BN17]. **Operator** [HRM18, MEMM17, MHN18, NW15, SPH15, Uch15, WDFS17, AOK15, AKS17a, AKS17b, AEV16, AN17, AK19, ACM15, BBS16a, BU18, CFL16, CN19a, DDF18, Drn19, FS18b, FS19b, GS15, HJ19, Han19b, HPSS19, Hoa15, JS18a, JM16, KU16, LZH16, LN18, MF16, Naj17, OP15, OP16b,



Pas18, PCI15, Reb19, SS15a, She17, Tan16b, UUG15, UWYY15, UYY17, WHC17, Zam16]. **operator-valued** [FS19b, HJ19, Zam16]. **Operators** [AR15b, DIR16, MMS16, Wój15, AB19, AAM15, AO18, And15, AAC17, AG18, ANAPSR17, ABGJR<sup>+</sup>18, AG15b, AG20, BFA18, BF18a, BG15, BLPT15, BŚS18, BBSS18, BDRC16, BMN16, Bob16, BT15, BM17c, Bou16a, CDMP15, CEM15b, CEGM16, CPZ16b, CDRT17, CMM19, DS19b, DSCD17, EE16, EJ17, EM15, EHHL17, EHLP18, FPGPV17, FKPS18, GSP16, He16b, HA15b, HK17, JLM18, Kim18, KL19b, KMS17a, KNR18, Lee19a, LTWW15, LWC18, Lju15, LD17c, LMX19, MS16b, Mat15a, Min17, Mol19, Nag15, NINS16, Nie15a, Nie15b, Pan19a, Pan19b, PSG16, PSM18, PMW19, PCI15, Pep17, Pie18, PPZ19, PR18b, Pop16b, PRS18, Rao17, Sab19, Sam17, SST15, Tur17, Vir16, WFS19, XF17, Zam19, Zem16, ZH15]. **Optimal** [ANAPSR17, CCO15, CFM16, GMP16a, Hon18, DDSC<sup>+</sup>16, Had17, IHS16, HK19c, JMPS18, La 16, LCF19, MRS15, NAS18, Sma15, WC15]. **Optimality** [Fas19, Li15a]. **optimisation** [CRC17]. **Optimization** [DH15, BA15, FS17b, FM17, Hil15, Kri15, Kur19]. **optimization-reusing** [Kur19]. **Optimizing** [BDDSC17, DeV19]. **Optimum** [GW17b, CLZ16a]. **OPUC** [MS15a]. **orbit** [IKVZ18]. **orbits** [BC15a, LNT16a, Lau18, MM15a, MBB<sup>+</sup>18]. **order** [ABO15, BP16a, BGV17, BBMFM17, CFNP17, DV18, DY15, DFM17, DD17c, GM15, GL17, Gao18, GH16b, GS15, HA15b, JKS15, Kar16, KH17, LS15a, LZ15a, LUC19, Lom17, PCI15, PM15b, PS15, PPZ19, SY16a, SL16, Shi19, Sug17, TH17, WZ17a, XSW17, ZWS18, dCFF17]. **orderability** [BS16e]. **Ordered** [HW15a, CKS16]. **Ordering** [YSS16, BOT19, LLS17a, LLS17b]. **orderings** [IKR16]. **orders** [AB19, BMGP15, CIMW15, ET18, Mos17, RD15, WL16]. **Orientation** [HM16]. **orientations** [COvdD16]. **Oriented** [Ref16, AdlPR16, CRRY15, CLL15, CL17a, CLR<sup>+</sup>18, DR19, HMT19, LHL18b, MWT16b, RS17a, WF19, ZXW19]. **original** [BS18c]. **Orthogonal** [Lin15b, Pan16b, War17, AM15b, BGV17, BF19b, BL16, CRX15, CG15, CJ16a, DEH16, DMQ19, DSCD17, DH19, FS17a, GGMP15, GMP16c, HZ17, IR19, Jin15, LNT16a, LUC19, Mac18, MP18, Ota15, Riv15a, Riv15b, RAAGA16, RMP18, SNDM17, SJD16, Shi16d, Sim17, WQH19, ZS17, ZGW16, dCMP15, cSfCfX15]. **orthogonalities** [Wój19]. **Orthogonality** [GSP16, AR15b, ABR18, CSW17, HHJM15, KL19b, KZ17, PSG16, PSM18, PMW19, SPH15, Tur17, Zha18b]. **orthogonally** [CW18b]. **orthoplex** [BH16a]. **oscillation** [EH18]. **Osserman** [NR16a]. **Ostrowski** [Nie19b]. **other** [CFW15, EA17, GSW16, KL18a]. **outcome** [LT19a]. **Outer** [BJKR17, BKNS18, LHC15, Shi17a, SSH15, SZW16]. **output** [Bel16, NN19b]. **outputs** [LPPZ19]. **overdetermined** [BW19]. **packet** [Far16]. **packing** [Gu16, LLT19]. **Padé** [PW18]. **pair** [BMS15, BGSS18, FHH15, Nom16, WHG17]. **Pairs** [SJD16, BGV17, BHSS18, BKS15, BKSP23, DdFR16, Dmy16, Dmy19, GMM16, GMM19, Lyn15, Mor17, NS15b, Nom15a, Nom15b, NT17, Ram16, RB16, SGH16, wXjMZL19]. **pairwise** [MC19]. **palindromic** [DDMP19]. **PARAFAC** [KL18b]. **parallel** [KH17, SdJY<sup>+</sup>16]. **parallelepipeds** [Bil19]. **parallelism** [Zam16]. **Parallelogramic** [LMP<sup>+</sup>17]. **Parameter** [AL19b, Zha15c, EH18, Fik18, FM19b, Gil16, KOST15, LMR16]. **Parameter-invariant** [Zha15c]. **parameters** [ACRR15, ACD19, BPZ17, HLW15, Ken16, KRZ<sup>+</sup>17, LHC15, Mic16, Wan16b].



**parametric** [HS19b, RW17].  
**Parametrizing** [And15]. **paraorthogonal** [Cas19]. **Parking** [MY16]. **Parseval** [KAPS20, AKPS19, MBB<sup>+</sup>18]. **part** [DU16a, DMQ19, KLY18, LNW17, Ter17b].  
**Parter** [BEF16, JS18b]. **Partial** [CIMW15, FG16, RD15, WL16, WZ17a, BS15a, BC19b, Cho17a, Eld15, FX19, GS17, Mel19, Shi19, aHRT15]. **partially** [BW19].  
**partite** [KNY15]. **partition** [GK15, JZZ18, NS18, WDFS17].  
**partitioned** [Hir18]. **Partitions** [CC19, CDG16, RNC17, Abi19, ARSB18, CD16a, Col19, dS18a]. **parts** [MMS16].  
**Pascal** [KT17, Zhe19]. **Pascal-like** [Zhe19].  
**passage** [BK17c, Hun18a]. **Paterson** [Fas19]. **Path** [EHHL17, EHLP18, GL17, KKL<sup>+</sup>17, AHMM18, BPT15, DR19, PF18, dSN15].  
**paths** [LN17, NR18, PS19b, YDYY18, ZLG15].  
**pattern** [BES16, BWSZ15a, KSVW17, LP15, LT19b, OS17, SUY16, VQ17, VQ19].  
**patterns** [BOvdD17, DB19a, EKSv14, EKSv18, FGG<sup>+</sup>18, FGH<sup>+</sup>15, GLZ16a, GLZ16b, GL17, Gao18, GM19, HZ15, LOvdD18, Liu18, MM17b, OvdDV17, Shi17b, Stu17]. **Pauli** [AMC18, RZ17, Sam17]. **payoff** [EW19].  
**Paz** [GLMS18]. **PDE** [PCL15]. **PDEs** [Lom17]. **peak** [Gas19]. **Peirce** [ZMT19].  
**Pellet** [Mel16b]. **Pellet-like** [Mel16b].  
**pencil** [AHV19, Rin17]. **pencils** [BGT<sup>+</sup>19, BR16a, BDP<sup>+</sup>18b, DA19b, DA19c, DDL17, Dod16, Dod17, DHW18, dMGC19, HY18, NP15b, PD17, Sch17].  
**pendant** [CPR18, PS19b]. **pendent** [NR18].  
**penetrable** [BKLP16]. **Penrose** [AB18, CGMSR15, CGDM16, HWZ15, KB15, Nor18, XW16, XSW17]. **Penttila** [BM19a]. **per-nullity** [WZ15].  
**Per-spectral** [WZ15]. **Perfect** [CGGV15, JKP<sup>+</sup>17, TFC19, CGK<sup>+</sup>17, Kir15, YG15].  
**Perforated** [AGV18]. **period** [Cha19].  
**Periodic** [Yam15, Ban16, Bre18, Fre18, GM15, SSF16, YSZ17]. **Periodicity** [KSTY18, MdIP16, KSTY19, Vas15].  
**peripheral** [ZH15]. **periplectic** [CCW18].  
**permanent** [CC18, GT18, Hut17, Liu17, Shc16, Shi16b, dS19a]. **permanent-on-top** [Shc16]. **permanental** [dS18a].  
**permanents** [CP16b, CLLS19, KK17, Roo19, Sbu17].  
**Permutability** [CI15b, CI15a].  
**Permutation** [DF15, DF18, Ouy17, AJL16, Dah15a, TC15].  
**Permutation-invariant** [Ouy17].  
**Permutation-like** [DF15, DF18].  
**permutative** [PT19]. **permuting** [Sim17].  
**Perron** [AG16, ACD19, FK16, GH16a, JP16, Lia17, LT19b, Tar18]. **Persymmetric** [JS15, SJS15]. **Perturbation** [CL19, GM17, GCQX15, IGW17, SZ23, Sku17, AG17, CR17b, CGDM16, JLT17, JZ16, KR17, LWY16, MM16a, OVW18, PM15b, SK17b, cSfCfX15, Wei17, XL18, Xu17b].  
**Perturbations** [CEM15b, XS17, BLPT15, BM19b, DFK<sup>+</sup>15, VD18, DV19b, Hun16, MS15a, MRS15, SV17, WHC17, XSW17, wXjMZL19].  
**Perturbed** [CFP18, GHT16, Rum18, RB19].  
**Perturbing** [WLP16]. **Petersen** [COvdD16, KMM17]. **Pfaffians** [EW19].  
**Phase** [HJ19, BZ16b]. **Phase-retrievable** [HJ19]. **Phelps** [DGK<sup>+</sup>17]. **phenomena** [KY15]. **phenomenon** [Gho16, SW15].  
**Picard** [BFN15]. **piecewise** [GBRS15].  
**pineapple** [TSH16]. **pivoting** [PZ17b].  
**pivots** [Kur19]. **planar** [VG18]. **plane** [BJC15, CRC17, FJ17, FJM18, LP18].  
**planes** [ET18]. **planted** [Col19]. **plateaux** [Gho16, SW15]. **player** [LT19a].  
**pluripotential** [Wan19]. **plus** [BR16b, BDS15, DS19b, EHN16, Hoo15, Hoo19, Li19, Mys16, RLP19, Shi16b, WT18, ZD15].  
**Poincaré** [AL16]. **point** [Bai18, EP18a, FGG<sup>+</sup>18, FG17, Had17, KLL16, KLW16, KLW18, Kur19, LSM16,



LSM18, RR18a, WMC15]. **point-hyperplane** [FGG<sup>+</sup>18]. **points** [BDG15, BDM18, CN17b, Eve18, FL16, HLM17, HMPT18, Jel18, KLV15, NAS18, Rao17, WWT18]. **polar** [De 16a, FX19, GMP15, GMP16b, Pan16a, Shi16a, Sol19, SG17b, dICMP17b]. **Polarity** [Sol18a]. **poles** [PW18]. **poly** [RT16]. **Pólya** [MF16]. **polyadic** [DD17c]. **polygons** [HMNP15, VG18]. **polyhedral** [SPBB19]. **Polynomial** [KS15a, RLP19, SS16, DDMV16, VT18, Win16, YT16, AMR19, AGS17, AP15a, BY19, BBdH16, BBdH18, Ben18, BLdSV19, BR16a, BV18a, CJRMF<sup>+</sup>15, CK15a, CLQW17, Che18a, CCD19, Cox15, DMQ19, FJ17, FJM18, Fio16, GK15, HWZ15, KPL18, KMS17b, Lie18, LW15, LL18b, Mel15, MMW17, NN19b, Shi16f, VV18, WW18, WZ19, YdB19, dBI19b, dIP18]. **polynomials** [AO18, ABG16a, AMZ17, ABD19, AEV15, AM15b, BGV17, BJS18, BBP19, BB16b, BDFR15, CDR<sup>+</sup>19, CW18a, Cas19, CG15, CM18, CCGO17, CCGV<sup>+</sup>19, CK15b, CJ16a, CKM16, Cim15, CP17, CW16a, DA19b, DDMP19, DP18, DD17b, Dmy17, DD18, DPV19, DK16, Fag19, Fas19, FS17a, FS18a, FM19a, FK16, GGMP15, GIM16, He16a, HK19a, HY18, HZ19, IR19, KM15a, KPL18, KMM17, Lee16, Liu17, LM17, LMR16, MO16, MP16a, MW15, MNTX16, Mel15, Mel16a, Mel16b, NS19, Niv15, Ota15, Ouy17, PM18, PP18, Ple17, Reb19, Riv15a, Riv15b, RV18, Sas18, Ser16, DDMV16, Tya17, WLWZ19, Yam15, Yan18, Zem16]. **polyominoes** [CEM15a]. **polytope** [CC19, HLM17]. **polytopes** [AK17, Fer15, GSS15, JK15, kJ16, NT18, SS19, War17, WH19b]. **Poncelet** [CN15]. **Popov** [RRV15]. **Popoviciu** [BS15d]. **population** [DOR16, HvdD16]. **portions** [JSST16]. **posed** [BB18]. **poset** [FI19b, Liu16b, Nag19, NS19, Ter18]. **posets** [CX17, GSZ15, Gas19]. **Positive** [BDRC16, BS16c, CJ16b, Gow17, GLRT18, JLN15, SK17b, AL18, ACM17, BP16b, BS15d, BJJ19, BC19a, BDS15, BL19, BDK<sup>+</sup>17b, BV18b, CPZ16b, Cho17b, Chu15, CJS18, CSJ16, CLS17, DB19a, DKS15, DLB18, Drn19, EA17, FMY16, FW17, Fie15b, FG17, GS18, GdLL17, GHT16, HT18a, Hay19, HJW19, HL17a, HW15b, HK17, Jai17, JZ16, Kan16, KS17, KL15, KLL16, KQZ16, KL17, KM16, Kus16, LNW17, LPW16, LS19, Lin17a, LZ17b, LNT16c, MR17a, MM16a, MMP17, MMV19, Min17, MS15b, Mol19, MPV16, Nie15b, NR17, Pep17, PR19, Riv15b, SFW18, Sal16, Sch16, SST15, SA17, SDK17, SSV17, Sim18, Sim19, SH15b, SUY16, STZ15, Ter17b, Ulu19, Vir16, WWT18, XLQC16, YLT16, ZH17, Zha18a, Zha19a, ZF15, dS19a]. **positive-definite** [ACM17]. **positivities** [Xu16]. **Positivity** [SNP16, CLW15, CW19, FJS17, FJS21, LG18, MGM17, Skr17, YMZ19]. **Positivstellensätze** [KVV17]. **possessing** [SSH15]. **possible** [BaHOS15]. **posteriori** [Fis17]. **potence** [Stu17]. **potent** [SR18, Stu17]. **potential** [CDFK19, Fay18]. **Potentials** [DMS16]. **potents** [XFZD17]. **Poupard** [FHS17a]. **Power** [Lee16, LY17, BV18a, CJS16, CM19, DD19, DKS17, DF15, DF18, DDF17b, FuIKT16, GH16a, HNS15, JZZ18, KL15, LG18, MG18a, TCD15, UWYY15, VB19, aHRT15]. **powers** [BGKP19, Ege16, FJS17, FJS21, GWW19b, GWW19a, Jai17, Mag16]. **PPT** [Car17, Lee15a]. **pre** [Mos17]. **pre-orders** [Mos17]. **precoherent** [DD16b]. **Preconditioned** [VK16, BT17a, BA15, Miz16]. **preconditioner** [Bai18]. **preconditioners** [Hon18, LSM18]. **preconditioning** [AL19b, DDSC<sup>+</sup>16, NSCV16, RMKJ18]. **predictions** [KÖ16, ÖK18]. **Preface** [BFH<sup>+</sup>17, BDIM15, BBF19, CFH<sup>+</sup>16, DLW15, FLVV18, GPW15, GHPS19]. **preorders** [BES19]. **preprocessing**



[PZ17a]. **prescribed**  
[APS18, BL18b, Bal15c, DS17b, HK18b, KPL18, SJS15, WYL19, YZLC18]. **presence**  
[GLMS18]. **preservation** [CYD19, MR17b].  
**Preservers**  
[Ben15, BBS16a, BBSS18, CLP16, EP18b, Poo15, ABM18, AMR19, AEV16, BS16b, CCCNT19, CL16, GW19a, HSS16b, LL17, LCLW18, LD16b, LD17b, NA15, Oik19, Ore16a, Ore16b, dSP19a, dS19a].  
**Preserving** [STZ15, AAM15, AR15b, BN17, BM15, BL18c, BMGP15, Bur15, CPZ16a, CHK19, CC17b, CV17, Cos16a, Cos16b, Cos19b, Dmy17, DdC16, EJ17, EM15, GJK18, HF18, HYH15, HM16, HLS<sup>+</sup>16, KP17, KM16, KLS17, Li15b, LLL17, MS16b, MS15b, MPV16, Pan17, Pan19b, Pet15, SdJY<sup>+</sup>16, Vir16, Wój15, Wój19, XFZD17, ZH15, Zha18b]. **Press** [Bar15]. **pressing**  
[CD16c]. **Primal** [Fay18, RR18a]. **Primal-dual** [Fay18, RR18a]. **primary**  
[FI19a]. **prime**  
[DD16a, DD19, DF15, VB19]. **prime-power**  
[DD19, VB19]. **Primitive** [BS16b, CLN15, FGS<sup>+</sup>16, HYY15, SG16, YHY15]. **Principal**  
[Bil19, LZB18, ÖK18, BC15b, BCF<sup>+</sup>16, DdSJdFDV15, FOvdD16, FMR18, Gas19, HR17, HJ16, LKY16, Miy19, RKT15, Ris16].  
**principle** [NR16a]. **principles**  
[NT19, Nie18]. **priori** [KL19a]. **priors**  
[RH15]. **prisms** [CCdFV18]. **privacy**  
[HLM17]. **probabilistic** [FM17, WO17].  
**probability**  
[GCQX15, KL15, LZ15a, Lie18, SY16a].  
**problem** [AO18, ATM18, AA16, ACM17, ACE15, BZ16b, BR19, Bel16, BF17a, BP19b, BC17b, BC16b, CW18a, CJ17a, CG19b, CGDM16, CL17a, CL15c, CI15a, CQ15b, DM16b, DS18b, Dod17, DE15, DN16, DN18, FPGPV17, FKM17a, FKM17b, FKMS18, Geh15, Gil16, GS18, Had17, Hil15, IR19, JP16, JMP17, JP18, JS15, Lee15c, LLH17, Ma15, MPS17, Miz16, MS16c, MK18, NMBA19, NN19b, dSP19b, dSP19c, Piv19, PS19e, Pud16, RMKJ18, RKT15, Riv15a, SdJY<sup>+</sup>16, cSfCfX15, SW18b, Ste15, SS17b, Tan16b, VB18, Wei15, XL18, Yua16, ZLQ16, BDM18, ES16, VF17]. **problems**  
[Ais18a, Ais18b, BT17a, Bal15b, BP16a, BB18, BMS16a, BGCMLSSS16, BC19a, CLQW17, CFNP17, DHW18, EH18, Fay18, FKPS18, GM15, GM16a, HJ16, HPZ18, Hoo19, HZC15, HNR16, HL19a, IK18, JLD17, KU16, Kri15, LZQ19, LLL17, LDL18, Mat15b, MP18, MT15, NN19a, NS15a, NR16b, SLY17, STZ15, Van16a, WZL17, WLL19, XXZ16, wXL14, wXZ19, Yin19, YHY15, YSZ17, ZHC16, ZD15, ZZR15, ZC15].  
**procedure** [FKRS17]. **Proceedings**  
[CFH<sup>+</sup>16, GPW15, FLVV18, GHPS19].  
**process** [CG15, CLM19a, DHLT19, Lin16a].  
**processes**  
[CLR19, EHHL17, EHLP18, Hun18b].  
**Procrust** [AA16]. **Procrustes**  
[BC19a, GS18]. **Product**  
[BS15b, HN18, LPW16, AAM15, ABM18, AGQ19, AMV17, ALH15, AL19b, BK19, BM15, CPZ16b, CF18, CJZ18, DD17a, DdC16, EH15, FZwCW16, FK18, FS19b, GW16b, HJW19, HL17b, Huh15, LK16, LTWW15, LHC15, Mag16, MSSZ17, Pet15, SWB19, Sod18, SG17a, SG17b, WW18, YLB15, ZD16b, dIC15, dICdR17]. **Products**  
[AG18, Bot16a, CLS17, GS15, dICG18, AJL16, BR15, BBMFM17, Ben15, BBS16a, BBSS18, Bre17, CQ15a, CHK19, CKL17, CLP16, DGSV17, FJS17, FJS21, FI16, GW16a, GW17a, GL19, GF17, GX17, Hil17a, Hil18, HLZ17, Hou19, Hou20, HSS16b, IKW16, KKA15, LL17, Lot15, MX16, PP18, XCJ18, XFZD17, Xu17a, ZH15, Zha18c].  
**Profiles** [CKS16]. **program** [Lil15a].  
**programming** [BT17a, Fay18]. **programs**  
[CJ17c]. **Projection**  
[BFN15, CVV19, SXD16, BKLP16, CYD19, Col19, CFNP17, DY15, FJP15a, FG17, LNT16c, Miz16, NZZ15, NN16, Pan15b].  
**projection-cost** [CYD19]. **Projections**



[KM18, PR18b, And15, AG18, BB17, DSCD17, FS19a, FJP15b, GMP16a, LCNZ19, LMX19, SJD16, Sim17].

**Projective**

[CLUP17, De 16a, BBT15, BH16a, Che15b].

**Prony** [KPRvdO16]. **Proof**

[AL15, Das15, Das18, Gho16, Lin15a, TWR15, XS18, Yua16, AB15a, CS15b, Lax16, Mic16, MB18, YQS16]. **Proofs**

[PQY15, BR17, ZZR15]. **propagation**

[KL19a, LY16]. **proper** [RH15]. **Properties**

[RGPH16, BBMP19, BBC<sup>+</sup>15, BJ15, Bri17,

CLR16, CJKM19b, CJKM19a, CGL16,

DHW16, DvSW18, Egg15, EM15, EB17,

FZL<sup>+</sup>17, Fik18, GLMPC18, Hua15, Hun16,

JS16, KSMB15, Kri15, Lin17a, LT19b,

MB15, Mor17, PP17b, PS17, SS15a, SY16b,

SY17, SZ19, SB18, SZB19, Tsa16a, iT16,

UY17, ZLKB17]. **property**

[AAdFS19, BPP16, BPP17, CCW16, CV17,

Far19, Kim18, PS18a, Tar18, WH19a, Lin16a,

SS17a]. **Providence** [GPW15]. **Pseudo**

[CLQW17, OZ18, PHW16, Xu17a, BBS16a,

GK15, Hol18, MY19, Niv15, PR18a, Ter17a].

**Pseudo-direct** [Xu17a].

**pseudo-Euclidean** [PR18a].

**Pseudo-inverses** [PHW16, Niv15].

**pseudo-partition** [GK15].

**Pseudo-skeleton** [OZ18]. **Pseudo-spectra**

[CLQW17]. **pseudo-unitary** [MY19].

**pseudographs** [XCQ18]. **pseudoinverses**

[FG16]. **pseudospectra**

[AGV17, AGV18, CJ17a, SKC18].

**Publishing** [Bru16a, Tsa16b]. **PWS** [RT16].

**QBD** [DHLT19]. **Qing** [Bru16a]. **QR**

[Bur15, LLL17]. **QRD** [GM16b]. **Quadratic**

[DDMP19, LZ15d, PC15, dB19b, BM17a,

BT17a, BdlCL17, CM18, CLM19a, DP18,

DSX15, Dym16, FJ17, FJM18, FNX19,

IKR16, MP18, OZ15a, CLR19].

**quadratically** [Ais18a, Ais18b].

**quadrature** [JKP16, PCL15, RRT16].

**quadrifocal** [Oed17]. **quandles** [KL18a].

**Quantity** [Kim18]. **Quantum**

[OP16b, Vir16, BS15a, BdP18a, BN17,

CLHL15, FL16, FH19, HJ19, HYH15, HK19a,

HPSS19, JKP<sup>+</sup>17, Kir15, KIS18, KSTY19,

Lev18, LPP15, LZ16c, SGH16, SCD17, Vir19].

**quartic** [CR17a]. **Quasi**

[AJL16, Hil18, CLM19a, Dod16, Dod17,

EM17, FMR18, FNX19, GMM16, GMM19,

KLS19b, LL15a, MM19a, PR19].

**quasi-birth-and-death** [CLM19a].

**quasi-Cartan** [MM19a, PR19].

**quasi-commutative** [GMM16].

**quasi-commuting** [GMM19].

**quasi-convexity** [FNX19]. **quasi-double**

[LL15a]. **quasi-Newton** [EM17].

**Quasi-permutation** [AJL16].

**quasi-regular** [Dod16, Dod17].

**quasi-unipotent** [KLS19b]. **quasiconvex**

[BKNS17]. **Quasiseparable**

[BR16b, DEH16, MR17b]. **quaternion**

[HWZ15, Yin18]. **quaternionic**

[AR18, ABC<sup>+</sup>16b, AS17, CDM19, CN19b,

HM16, KMS16, Kum19, Wan19].

**quaternions** [FKS16]. **qubit** [CF18]. **qudit**

[Ouy17]. **question** [Lin17b]. **Questions**

[BCJ<sup>+</sup>16]. **queues** [BDLM16]. **quiver**

[Gon15]. **Quotient**

[Fio16, SK17a, DdFR16, YYSX19].

**Quotient-polynomial** [Fio16]. **quotients**

[HF18, HK19c].

**R** [Bar15]. **Racah** [LHG15, NT17, Ter17a].

**radial** [BBSS18, HT18b]. **Radii**

[HR16, BFMK18, CLL15, CL17a, GW16a,

GW17a, GL19, LZB18, LZM16, OQY17,

TWM16, XWL17, XWD18, YSS16]. **radius**

[AOK15, AO18, AOK19, AK19, BL18a,

BL18b, BF18a, BBS16a, BBP19, BSS17,

BJLD17, Bün17, CM17, Cha15, Che19b,

CJ17d, Drn19, EJ17, EH15, FuKT16,

FBH19, FCL<sup>+</sup>16, GH19, GW16b, GW18,

Gol16, GMW18, GZ18, HSS16a, JL16a,

KNY15, uLKF15, KMY15, LS15a, Lia17,

LZ15c, LZ16a, LZ16b, LZW17, LZ17a,



LHX18, aLwW15, LLZ17, LWCL19, LM16c, LHH17, MMM19, Mol18a, Mor17, Nik17c, NLW18, NLWJ18, Obo19a, Obo19c, PS19b, Pep17, PV17, Sab18, She17, XSW19a, XS18, XLLS18, Zam19, ZLG17, ZLKB17]. **raising** [Ter15]. **Ramanujan** [CV17, DTZ16, San15]. **Randić** [AdFRR18, BM16a, GRS15]. **Random** [OVW18, PQY15, BŚS18, BB16b, DMS16, DE15, GJLS16, HLLZ17, Hua19, LLH17, Liu18, OBRA15, PSZ15, RR18b, RJK18, Ruk15, SH15b, XL18, Yas16]. **Randomized** [NZZ15, BW18, BW19, BDK<sup>+</sup>17b, CYD19, PZ17a]. **Range** [ACM15, dSP15, dSP16e, AAS18, AMC18, Bal17b, Bal18, Bal19, BS19b, CJ17a, CC17b, CCCNT19, CN15, CNY18, DFM17, FK16, HA15b, Kum19, LNT16b, LLPS19, LSZ18, Rub19, XF17]. **Range-compatible** [dSP15, dSP16e]. **ranges** [AR18, BFA18, BD15b, CDM19, CL16, CN19b, CNM19, CJK<sup>+</sup>16, GWW16, GWW19b, GWW19a, HMNP15, KKP19, KLN16, Lee15c, LTWW15, SWZ18]. **Rank** [BBS16b, DdC16, GS16, Hua15, MV16, AAS18, AAG<sup>+</sup>18, AMC18, Alf18b, ARSZ15, Al<sup>+</sup>17, Bal15c, BES19, BLPT15, BM19b, Ber17, BR16b, BS16d, BDS15, BC17a, BA15, BCU15, BWSZ15a, BCF<sup>+</sup>16, CU18, CF18, CHB15, CJZ18, CCO15, Dax17, De 16b, DDL17, DM16b, DAG16, DPJ17, DD17b, DD18, DR17, EHK16, EM16, FOvdD16, FMR18, FS19a, GH17, GS19b, GdLL17, GCC18, HKM18, HHL19, Hir18, HMNP15, HSS16b, Joe16, Jør15, KKP19, KU16, LCF19, LWX17, LWZ18, LHL18b, MWT16b, Mes17, Mor17, ME15, OVW18, PQY15, Pan19b, PS18a, PRS19, PC15, dSP16a, dSP16c, dSP16d, PF18, RSS17, Rub19, Shi18c, Shi19, SZW16, SSB15a, Tok17, TW18b, VQ17, Van17, WYLW17, WF19, ZXW19, ZM16, Zui17, dB19b]. **rank-** [Hir18]. **rank-1** [GCC18, Joe16]. **rank-metric** [LCF19]. **rank-one** [FS19a, SSB15a]. **Rank-revealing** [MV16]. **rank/trace** [BES19, Shi19]. **Ranks** [FGH<sup>+</sup>15, BS18b, FGG<sup>+</sup>18, dMGC19, Mat15b, MHN18, SP16, WLWZ19]. **Rao** [Rak17]. **rapid** [PCL15]. **rate** [BW18, GKS18]. **rates** [bCR18, JMRV16]. **ratio** [Bün17]. **Rational** [CA18, Duk12, Duk15, SSV17, AB16, AL18, AL19a, AMZ16, CMV19, CFW15, DA19a, DA19c, DMQ19, EG19, Fas19, FKRS17, JMRV16, JT18b, RV18, RAAGA16, Van16a, Vol17, WQH19, BDM18]. **rationality** [KVV17]. **Ray** [Liu15, LT19b, Liu18, Stu17]. **Rayleigh** [SK17a]. **rays** [Dah15a]. **re** [LC19]. **re-weighted** [LC19]. **Reachability** [MP19, PS18b]. **Real** [BP19a, BS16d, CW18a, DGP<sup>+</sup>15, FI16, KKP19, Alf18b, AL18, BD15a, BZ16a, BKRE18, BCS15, BR16b, BS19a, BC17b, BS18b, Bün17, Bur15, CJRMF<sup>+</sup>15, Che18d, CL17b, CHB15, DAG16, EE16, GM16b, JP16, LNT16a, LS15b, LDL18, MS19, MM15b, NMBA19, NN19a, RE16, RGPH16, Sei18, SSB15b, TY15]. **realizability** [CJS18, DDMP19, GMM19, HMPT18, JMPS19]. **Realizable** [AMR18, MAR17, MN19a, BPZ17, HMPT18]. **realization** [AL19a, BR19, JRS19, SUBG18, DDMV16]. **Realizing** [PT19]. **receptance** [WZ17a]. **Recessive** [SH15a]. **reciprocal** [BPP16, BPP17, PP17b]. **reconstruction** [BKLP16, BBT15, BS18c, SS16]. **recoverability** [WLH18]. **Recovering** [Col19, RJK18]. **Recovery** [AB16, DA19c, DA19b, DA19a, FS19a, FKRS17, KSTX15, LL16b, LS15c, RSS17]. **Rectangular** [MO18, BL16, CLT15, Hua15, MM16a, YZL<sup>+</sup>19]. **recurrence** [IR19]. **recurrences** [ABO15, EJ19, Grc18, LMR16]. **recursions** [BF17a]. **recursive** [ATM18, CLW15, HK18a]. **Recursiveness** [LY16]. **Redheffer** [CK19]. **Reduced** [Pie18, CFP18, Cos16b, MS16b, TH16a]. **Reducibility** [CN17a, KMOR19]. **reducing**



[BF19a]. **Reduction** [BGSS18, dFRS16, BK16, BSS18, BR16b, BMR17, BF19c, CQ15b, Fay18, GP19a, HPZ18, HPZ19, JLN15, Lom17, Mar15b, Van16b]. **Refined** [COvdD16, BBdH16, BBdH18, BOvdD17, Nie15a]. **refinement** [AL19b, JZC19]. **Refinements** [JM16]. **reflection** [BS19a]. **reflective** [DDSC<sup>+</sup>16]. **Reflexive** [NT18, SR18]. **reflexivity** [Oi19, Pan19a]. **reformulation** [Ste15]. **regions** [Guo19]. **registers** [BR19, CUPW15]. **Regression** [Tyg19, BHML15, Eld15, Hoo19, KM18, NN16, ÖK18, RR18a]. **Regression-aware** [Tyg19]. **Regular** [CD16a, CLZ16a, LS18b, Rai19, WYL19, AAG<sup>+</sup>19, Abi19, ARR18, AyLPS18, AAKS17, ÁKM17, AP15b, AM18, AB18, BK17a, BS18a, BPR17, BF15, BGG16, CHASSSG15, CGGV15, Dod16, Dod17, IFwW16, FJKM18, GK15, GLW17, Gre18, GJLS16, GL16, HH17, IM19, Jør15, LwW16, LHG15, MMP16, MM17a, MM17c, Nik16c, O16, PB16, QKP16, Row18, Sim19, Tom15, VGG17, WQH19, ZM16]. **Regularity** [RS18, HKS19, KKS18]. **Regularization** [HNR16, CLZ<sup>+</sup>16b, HKP17, NR16b]. **regularized** [CCO15, ZC15]. **regulator** [ZD15]. **related** [AKYD16, BGCMLSSS16, BD19, Cho17a, Cho17b, CM16, Duk12, Duk15, Hia19, HZC15, JM16, JLM18, LL17, Lin16b, LM17, LMP<sup>+</sup>17, STZ15, WZ19, Zha19a, dIPJG18]. **Relating** [EG15]. **Relation** [DM16a, TW18a, BBdH16, BBdH18, CJS16, LS19, Obo19c]. **Relations** [DMG17, HS19b, Hu15, ÁKM17, ACRR15, BTW16, CS18b, DY15, GJK18, PR19]. **relationship** [BBM19, LHL18b]. **Relationships** [LL16a]. **Relative** [BD15b, MVPST19, CSJ16, FS18b, GR15, MH15]. **Relaxed** [DD17c, BT17a, Had17]. **relevance** [OW17]. **reliability** [MP17]. **remark** [FX19, Tur17, WM17b]. **Remarks** [Lin16c, Nik16c, BFY18, BTN<sup>+</sup>18, Gol16, kJ16, JMM16, LW15, Shi17b]. **removing** [JST19]. **rencontres** [FM19a]. **renewal** [Hun18b]. **Rényi** [DHL<sup>+</sup>17, Hia19]. **Repetition** [KLL18, DA19b]. **repetitions** [PD17]. **representable** [MFdM15]. **representation** [BT17b, CNY18, CN18, DAG16, HMS17, HNS15, HKP17, Kli19, Mel15, Ruk15, SZW16]. **Representations** [AG15b, AG20, Che18d, Che15b, CHK17, EG19, Gae16, HJ19, HJW19, JT18b, KMS17b, LP18, LH17, Ple17, Sch15, Sri17]. **Representing** [CK15b]. **require** [GLZ16a, GLZ16b, GL17, Gao18]. **requiring** [LOvdD18, LT19b]. **rescaling** [Bil19]. **Residual** [Lan15]. **residuals** [HKP17]. **residue** [HSTW17, Ris16]. **residues** [BES16, PW18]. **Resistance** [ABK19, CEM19, Cho19, Som17, WDV17]. **resolution** [CS15a, GLMS18]. **resolvable** [KVV17, Ma16, Mic16]. **resolvent** [AHV19, KLL17, Riv15a]. **respect** [AR18, BS16d, CFNP17, MS16a, Nom15c, Pop16b]. **response** [LLL17, WZL17]. **Restricted** [DKNS16, EF17, EF19, Ruk15, CCW16, KÖ16, YDYY18]. **Restriction** [Bal19]. **result** [Bal15b, BÓ15, CDR18, Dra16b, LZ17b, NW19, Nie19a, She16, TY15, Vij15]. **Results** [FJS21, AA19, Bal15a, BR15, BU18, BFMK18, CD16b, Che18b, DV18, DPR19, FHH15, GS15, KMOR19, LL17, LZH16, Lin16c, Mel16b, cSfCfX15, YHY15, Zha15b, ZM16, FJS17]. **retrievable** [HJ19]. **retrieval** [BZ16b]. **reusing** [Kur19]. **revealing** [MV16]. **reverse** [Kal18, PCI15, XSW17]. **reversion** [Bar16a]. **Review** [Bar15, Bru16a, Tsa16b, Zha15a]. **revisited** [Al<sup>+</sup>17, ELN18, KLS19a, Mac18, dSP16c, RY15, TH17, Wan16c]. **Revisiting** [BF17a]. **reward** [DHLT19]. **Riccati** [DP15b, AM16a, AMV17, Bar17a, BB16a, DP16, DPJ17, GL16]. **Ricci** [DvSW18]. **Rickart** [DD16b]. **Ridge** [Ema18, KÖ16, RR18a]. **Riemannian** [BC19a]. **Riesz** [Chu16]. **right**



[Dra16a, HPZ18, LT12, LT16a]. **right-hand** [HPZ18]. **rigid** [BCS15, BCS16]. **rigidity** [Alf15]. **rigorous** [LWY16]. **ring** [Bou16b, CS18b, GLAdS19, Mig16, ZZC15]. **rings** [AA17, BBEE18, CHASSSG15, Che18a, CQS18, DGCC16, DGGP18, DD16b, Ere16, GM19, GL15b, GL15a, HLZ17, Hou20, HWZ15, HSTW17, KT19, LZ15d, dSP16b, QH15, RD15, Ris16, Wan15b]. **Riordan** [BT17b, Bar16a, Bar19, CW19, CJ15, CKS16, CJ17b, CHK17, CJB18, CS18a, CJKM19b, CJKM19a, He15, He16a, HS16, He16b, HS17, He18, KZ17, LMR16, LMM<sup>+</sup>16, LMPM17, MN19b, MMW17, WZ19, YDYY18, YDHY18, Zem16]. **Ritz** [TLL15, Vec16]. **RKFUN** [EG19]. **Roberts** [ABR18]. **Robust** [CJ16d, FM17, PMB15, WLH18, CJ16c, FJMP15, LS15c, TLL15]. **Robustness** [VD18, DV19b, Miz16, MP15b]. **Roger** [Bar15]. **role** [BBEE19]. **ROM** [Hür15]. **Root** [MM19a, Guo19, Lia17, LG18, Miy15, Vij15]. **rooted** [ADW19, Sal16]. **roots** [AGS17, BDK<sup>+</sup>17a, DKSV19, MP16c, Shi16e, TH16b, VV18]. **Rosenbrock** [CHASSSG15]. **roses** [HvD18]. **rotation** [BS19a, SÖ16]. **rotations** [DSCD17]. **Rotfel'd** [Zha19b]. **Roth** [DFKS17, FKS16]. **Rough** [Gal19]. **roundoff** [Fis17]. **Row** [HS16, MMW17, DV19b, Ege16, GWW16, RS17b]. **row-stochastic** [Ege16]. **rules** [Cho19, Joe16, RRT16]. **Ruling** [JMP17]. **Runge** [BGCMLSSS16, BDDSC17]. **Russo** [BL19].  
**Saad** [Vec16]. **Sabidussi** [KM19]. **saddle** [Bai18, Had17, Kur19, LSM16, LSM18]. **saddle-point** [Bai18, Kur19, LSM18]. **safe** [PZ17b]. **Said** [MM16a]. **Sakamoto** [TW16]. **Salpeter** [SdJY<sup>+</sup>16]. **same** [AMZ17, ZLS17]. **sample** [CIY15, MNT19, iT16, iT19, Yin18]. **samplers** [RH15]. **Sampling** [BKLP16, BMS15, Fre18, KL19a]. **satellite** [EB17]. **satisfaction** [MT15]. **satisfy** [PP17b]. **scalar** [GX19, Mel15, Mel16a, SG17b]. **scale** [BB16a, EM17, HK18a, LMS15]. **scaled** [VT18]. **scaling** [Mac16, Nat19]. **scalings** [CC17a, Hut17, Kus15]. **scatterers** [BKLP16]. **scattering** [GHS16]. **Schatten** [CL15b, CM16, JC18]. **scheme** [BM19a, CHJM18, Jel18]. **schemes** [CDRT17, CGGV15, Han19a, JCW19, Mor16b, MX16, Shi16a, WG15]. **Schmidt** [AK19, MHN18]. **Schneider** [BMS16b]. **Schoenmakers** [SSCS16]. **Schrödinger** [LM19]. **Schubert** [Lax16]. **Schultz** [BB18]. **Schur** [CGMSR15, CMM19, FKM17a, FKM17b, GP19a, KK17, Nie19b, PM15a, dSP19a]. **Schwarz** [FS19b, JM16, Kal18]. **Scientific** [Bru16a, Tsa16b]. **scrambling** [SG16]. **SDD** [WLL19]. **SDP** [CJ17c]. **SDPs** [BF19c]. **Seak** [Bru16a]. **Seak-Weng** [Bru16a]. **secant** [Han18]. **Secants** [MM15a]. **Second** [CCW18, BP16a, Bar15, BSP18, CLM19b, CFNP17, GM15, KT17, KMS16, Lin15a, MHL15, Mar15a, SY16a, SAdFZ15, Sug17, TW18a]. **second-order** [BP16a, GM15, SY16a, Sug17]. **sectional** [Opo16]. **sections** [Kum19]. **Seidel** [BSMSZ19, Riz19]. **selection** [Cox15]. **Self** [BPP17, MY19, Tya17, WHC17, AG18, GG18, GR15, Gow16, KNR18, Nag15, Nie15a, Pan19b]. **Self-adjoint** [MY19, WHC17, AG18, GG18, Nag15, Nie15a, Pan19b]. **self-dual** [GR15, Gow16]. **Self-interlacing** [Tya17]. **Self-inverse** [BPP17]. **selfadjoint** [And15, CMM19, FKRS17]. **selfrepeat** [FJ19]. **Semencul** [XW16]. **Semi** [CHB15, ÁKM17, BFA18, CJ17c, CFNP17, CLS17, FG16, FK16, GS18, GLRT18, KS17, LNT16c, Zam19]. **semi-analytical** [GS18]. **semi-commuting** [KS17]. **semi-definite** [CLS17, GLRT18, LNT16c]. **semi-Hilbertian** [BFA18, FG16, Zam19].



**semi-infinite** [CJ17c]. **semi-monic** [FK16]. **Semi-nonnegative** [CHB15]. **semi-smooth** [CFNP17]. **semiclassical** [GGMPC15]. **semidefinite** [Cho17b, FMY16, FS17b, FG17, GS18, GdLL17, HNS15, KL17, Lin17a, SUY16, Ulu19, Vir16]. **semidefiniteness** [KM16, NR17]. **semifields** [GJK18]. **semigroup** [Zus17a]. **semigroups** [AG15b, AG20, Bob16, KOST15, KMOR19, PV17, Shi17a]. **semilattices** [IK18]. **semilinear** [Van16b]. **semimodule** [Shi15, Tan16a]. **semimodules** [HM17a, Shi16d, ySpW17]. **Semimonotone** [TW19]. **seminorms** [CG19c, Gol17]. **semiparametric** [Ema18]. **semipositive** [Tsa16a]. **semiring** [IKR16, YZZ18]. **semirings** [DO16]. **semisimple** [CME18, PR19]. **Semrl** [Kim18]. **sensing** [BÓ15, Fli16, KKLP17]. **Sensitivity** [Kir15]. **Seoul** [CFH<sup>+</sup>16]. **separable** [GH16b, JC18, Miz16]. **Separating** [KLP18]. **separation** [Sol18a]. **Sequence** [He18, BCS16, BCF<sup>+</sup>16, CR19b, FOvdD16, FMR18, FHS17a, NP15c, SSS15, Yur15]. **Sequences** [Dnr19, Bar17b, BDG15, CJ16a, CD16c, EE16, EJ19, FKM17a, FKM17b, Gar17, HMSC19, JC18, KT17, LM17, MHA18, OZ15a, PW19, PW20, Riv15b, SB18, WZ19, XWL17, ZLS17]. **sequential** [CR18b]. **Sergeichuk** [BBF19]. **Series** [Bru16a, Bar16a, BV18a, CIY15, CJS16, DS19c, Dya17, LG18]. **Serre** [CQ15b, PR19]. **Serrin** [ACE15]. **sesqui** [Bil19]. **sesqui-holomorphic** [Bil19]. **sesquilinear** [Wój15, dFRS16, dFFRS17]. **Set** [SS18, AvdHS15, AvdHS16, BDM18, BGT<sup>+</sup>19, BGCMPB15, DDL17, DdF15, DHS18, Gór17, HYY15, Hil17b, LLPS19, LCL15, LL16a, LJL16, LD17b, MS16a, May15, NS15b, SR19, SG16, Tar18, Yor17]. **Set-theoretic** [SS18]. **Sets** [BOvdD17, Kan16, AYK17, ABM16, BM19a, BH16a, BWSZ15b, BJLD17, CR18a, bCR18, DLB18, DD17b, DO16, ELN18, Eve18, GJ18, JG17, Jin15, KL19a, Koz16, Lax16, LL16a, Lin15b, MC19, MB15, MRV15, NS15c, OL16, Pep17, Pol19, RW17, ySpW17, SXD16, Tan16a, YZL<sup>+</sup>19]. **setting** [ABC<sup>+</sup>16b, AS17]. **Several** [GL15b, GL15a, LCF19, CKM16, Ern18, Ken16, Naj17]. **shadow** [DGP<sup>+</sup>15]. **Shannon** [Nie15b]. **shape** [VG18]. **shaped** [HP15]. **shapedness** [LNT16a, LNT16b]. **Sharp** [DR18, Ken16, BMGP15, CL17b]. **Sheffer** [CJ16a]. **shell** [ABR18, CJ17a, LSZ18]. **Sherman** [ACM15]. **Shift** [CV17, He16b, APT17, BR19, BMN16, BS16f, Chu15, CUPW15, Skr17, ZSQZ19]. **shifts** [KY15, KY18, LY16]. **Shmuel** [Tsa16b]. **Shoda** [SB15]. **short** [BP19a, Bün17, MC19, May15, Mic16, SS17b]. **shorted** [ACM15]. **shuffled** [MHA18]. **SICs** [CW17]. **side** [AL18]. **sided** [HAWM16]. **sides** [HPZ18]. **Siegel** [AM19]. **sieve** [Cox15]. **Sign** [Bri17, GLZ16b, LP15, LOvdD18, SS19, SV17, Stu17, BDDO16, BGGS16, BD19, BWSZ15a, BBFF17, Bün17, DB19a, FGG<sup>+</sup>18, FGH<sup>+</sup>15, GM15, GLZ16a, GL17, JCW19, Kob17, MNTX16, OvdDV17, Ter18]. **sign-central** [BDDO16]. **Sign-changing** [SV17, GM15]. **sign-complex** [Bün17]. **sign-real** [Bün17]. **Signal** [Per18, PHW16]. **signals** [KKLP17]. **Signature** [MG18a, HS19a, MWT16a, PR18a]. **signatures** [Ma16]. **Signed** [AHMM18, BZ16c, BBC18, WWT18, YYQ19, ASMN17a, ASMN17b, ABDN18, ABH<sup>+</sup>19, AvdHS15, AvdHS16, AH16, Bah19, BS15c, BP15, BSS16, BSP18, CRRY15, HHL19, LWZ18, RS17a, RS17b, SS16, STW18, STW19, Sta19, WH18]. **Signless** [GCP18, HL19a, ACPR15, ADLR19, CR17b, CCdFV18, DdSJdFDV15, Das15, DM16a, lFwW16, FWB<sup>+</sup>19, GRS17, HQX15, LD16a, LZ16b, LZW17, LLS17a, LLS17b, LLZ17, LL18a, MM19b, NLWJ18, Obo19c, TWR15, WZZ19, WZL15, XSW19a,



YQS16, ZL15a, ZL15b]. **similar** [GS17]. **similarities** [W6j19]. **Similarity** [BP16b, BBSS18, CXLF16, CN18, CM19, CLP16, GSW16, Sha16, dICF16]. **SIMO** [BPZ17]. **Simple** [BZ16a, Lot15, BKRE18, BGM<sup>+</sup>19, BBGM16, CW15a, Cos19a, EF17, Hol16, LZ15e, MI17, MB18, PS16, RE16, Sam17]. **simple-loop** [BGM<sup>+</sup>19, BBGM16]. **simplices** [FJKM18]. **simplicial** [BFN15, LT18]. **simplification** [SW15]. **simplified** [BM17a, BDP<sup>+</sup>18b]. **simulation** [Hür15]. **Simultaneous** [BGKP19, Sha16, FT18, FKM17a, FKM17b, GX17, HK18a, HAWM16, She16]. **simultaneously** [DO16]. **Singer** [BH16a, Hou15]. **single** [LPPZ19]. **singleton** [Kan16]. **Singular** [CN17b, KLS19a, Lop15, YZL<sup>+</sup>19, AJL16, ÁVAK<sup>+</sup>19, BGT<sup>+</sup>19, BMR17, GH16a, GL16, Had17, Hoo15, JS16, JKP16, KN16, Lan15, LY17, LS18b, MVPST19, Nie19c, SS15c, TY15, DDMV16, TW18b, WG15, Zhu19, Zou17]. **Singularities** [CDR<sup>+</sup>19, Han18, JKP16]. **singularity** [RS18, Sch17]. **singularizable** [Roh18]. **Sinkhorn** [IW15]. **six** [MB15, PS19a]. **size** [ABGJR<sup>+</sup>18, DV19a, DdF15, Gar17, JKS15, MS17b, NS18, NP15c, PS15, SWZ18]. **skeleton** [Fer15, OZ18]. **sketching** [BF19c]. **Skew** [BC15b, MWT16b, dICMP17b, AAM15, AJPS16, BRN18, BGSS18, BHSS18, Che18a, CLL15, CL17a, CS15b, CS18b, CQS18, Dmy16, Dmy17, DD18, DKNS16, FOvdD16, FKRS17, FKS16, GG18, GW17b, Ito17, Joe16, LWY16, LHL18b, May15, MM15b, PM15b, WF19]. **skew-adjoint** [PM15b]. **skew-circulant** [Joe16]. **skew-morphisms** [DKNS16]. **skew-product** [AAM15]. **Skew-rank** [MWT16b, LHL18b]. **skew-selfadjoint** [FKRS17]. **Skew-symmetric** [BC15b, BGSS18, BHSS18, CS15b, Dmy16, Dmy17, DD18, FOvdD16, GG18, LWY16, May15, MM15b]. **skewness** [Hür15]. **sln** [Chi18]. **Small** [ABG16b, AAKS17, BOT19, CW16a, DHW16, Dym16, FHJT19, LM16c, QKP16, Shi15]. **smallest** [AB15a, AKYD16, KKY16, KLY18, KLW16, MST15, Nik16b]. **Smith** [BD19, EG15]. **Smooth** [Rao17, BGM<sup>+</sup>19, BBGM16, CFNP17]. **smoother** [BDDSC17]. **smoothness** [PSG16]. **snowflake** [Piv19]. **Sobolev** [TNK16]. **Society** [GHPS19, Zha15a]. **socle** [SB15, SBB15]. **Solution** [BHP17, CL17a, PCL15, BP16a, BB18, Bel16, BB16a, CI15a, DI16, DTZ16, DS18b, Gór17, Lin17b, May15, RW17, SS17b, Tan16b, Yur15, ZD15, ZC15]. **solutions** [BV18a, CGM17, DP15b, DP16, DPJ17, DN18, FI19a, GX16, GX19, Hla15, KU16, Kri15, Li19, LM19, SFW18, SR18, SH15a, SS18, WT18, Wim16, ZHC16, Zue18]. **Solvability** [DIPR18a, DIPR18b, Bar17a, DFKS17, FKS16, Hla15, HR16, JLD17, LX17, vWZ17]. **Solvable** [KKO15, BCS15, BCS16, CLOK13, CPS17, LMO16]. **solver** [VT18]. **solvers** [LMS15]. **Solving** [GBRS15, BW19, EM17, HAWM16, HS19b, NZZ15, SdJY<sup>+</sup>16, Van16a, ZLQ16]. **Some** [AA19, AN17, AAC<sup>+</sup>15, AdF19, BR15, BFY18, BLY16, BU18, Cal16, CFL16, CLHL15, CD16b, CL17b, CJ15, DHHZI19, DY15, EM15, Gór17, GS15, Hoa17, HO15, HWXC18, kJ16, JMM16, KSMB15, KM16, LS18a, LL15b, LPP15, LZH16, LWC18, Lin15c, LM17, Lék16, LMM<sup>+</sup>16, NR16b, Pal16, SY17, SWB19, cSfCFX15, SB18, UYY17, XCJ18, YZL15, ZLKB17, Zha18c, ZSWB16, AAS18, AAC17, BBM19, BS17, BSS16, CHJM18, DB19a, Duk12, Duk15, ET16, FZL<sup>+</sup>17, FM19a, GRS15, HLW15, Jai17, Kal18, KPL18, Lan15, LHG15, LWCL19, LMR16, MQTW18, Mar15a, Mel15, Mor17, MST15, NW15, NT19, Oik19, OP16a, Ota15, PP17b, Pas19, Rob19, SY16b, YdB19, YHY15, YSS16, Zha19a]. **somewhere** [WH19a]. **somewhere-flat**



[WH19a]. **Soules** [Hür15]. **South** [CFH<sup>+</sup>16]. **space** [AM19, AL19a, BCKL17, BGCMPB15, CCW16, CGL16, CMM19, DY15, DdFR16, EE16, FJM18, HJW19, HL17a, JMPS18, Kim15a, KL15, Kul15, Lee19a, LNW17, Liu16b, Mag16, OZ15b, PSM18, Pop16a, Sab19, SG17b, WG15, Zam19]. **space-filling** [BGCMPB15]. **Spaces** [BM17c, EM16, AGQ19, BFA18, BF18a, BSZ18, Bil19, BHSS18, BDFR15, BO17, CR19a, CG19b, CDFK19, CFW15, CSW17, CG19c, DA19a, De 16a, DdFR16, EE15, EM15, ET18, FZwCW16, FS17a, FS18a, FPGPV17, FG16, FKWS18, GMP16a, Gol17, HW15a, HHR16, JC18, KL19b, KS15b, Mar18, MSSZ17, Mes17, MM17c, MRV15, Mol18b, Nag15, NP15c, Pan17, PMW19, PR18a, PCI15, dSP15, dSP16a, dSP16c, dSP16d, dSP16e, Rao17, RT16, SPBB19, Shi16c, SG17a, VF17, Vir16, WH19a, Wol18, XS17]. **spanned** [RMP18]. **Spanning** [LLT19, Gu16, KS19, MRV15]. **Sparse** [BHK16, KSTX15, LSM16, Alo15, BW19, BF19a, BP19a, PHW16, Shi18b]. **sparser** [Kli19]. **sparsest** [JMPS18]. **sparsity** [SUY16]. **Specht** [FHS17b, dSRST17]. **Special** [DLW15, SS15b, Zus17b, ABGJR<sup>+</sup>18, BBF19, Ern18, LNT16a]. **specified** [KM15a, Nom15a, ZLG15]. **Spectra** [BCM17, CCdFV18, DR19, LJK16, VHB18, AAB<sup>+</sup>16, AJO15, ACPR15, AB17, AH16, BW16, BR15, BS17, BCC<sup>+</sup>18, CLQW17, CJS18, Cos16a, Dal17b, DS17a, DM15, GF17, JLN15, JMP17, JRS19, JMPS19, Kan16, KHI16a, KHI16b, LXS18, LS18b, LHL18a, MAR17, MN19a, NPRS17, PT19, SY17, Shi17b, SS15c, WHC17, XS17, ZL15a, ZL15b, ZKSB17]. **Spectral** [ACT16, AO18, AyLPS18, ABDN18, AEV16, AL16, BL18b, BP15, BOT19, Ben16, BBC<sup>+</sup>15, BS16f, CGSC19, DLM15, DHW16, FCLP18, FZL<sup>+</sup>17, Fik18, Gu16, GJLS16, HT17, HMT19, JG16, JG17, LN17, LZ17a, aLwW15, MHL15, MM16b, MHS15, Pea15, SZB19, ZLG15, BL18a, Bai18, BF18a, BG15, BBS16a, BTN<sup>+</sup>18, BJLD17, Bün17, BS18c, CM17, CLL15, CL17a, Che19b, CJ17d, DV19a, Drn19, DvSW18, EJ17, EH15, EH18, EB17, FuKT16, FBH19, FT18, FCL<sup>+</sup>16, GH19, GJ18, GMO19, GMW18, GZ18, HvdD16, HvD18, HJ16, HMSC19, HLLZ17, HSS16a, JL16a, KNY15, Ken16, uKF15, KIS18, Koz16, LS15a, LZB18, Lia17, LZ15c, LZ16a, LZ16b, LZM16, LZW17, LHX18, LSX15, LLS17a, LLS17b, LZSD17, LZSD18, LWCL19, Lot15, LM16c, LHH17, Mel19, MMM19, Mol18a, MM15b, Mor17, NMB19, Nik17a, Nik17c, NLW18, NLWJ18]. **spectral** [NSCV16, Obo19a, Obo19c, OQY17, PS19b, PS17, Pep17, PV17, Sim18, Skr17, TWM16, TSH16, Tsu15, WM17b, WZ15, XSW19a, XWL17, XWD18, XS18, XLS18, Yin18, YSS16, ZLG17, ZLKB17, Zha18c, dIPJG18, CRC17, CJKM19b]. **Spectrally** [GM19, KSVW17, MM17b, OvdDV17]. **spectratopes** [JP16]. **Spectrum** [Chu19, AAM15, ABM18, AP15b, BDMB19, BM17b, BE15, Ben15, Ber18, BSMSZ19, BM15, BL18c, CM18, CX17, CW18b, CJ17d, Gil16, Hua19, JZZ18, KLW18, LTWW15, LD17a, LS17b, LN18, MLW15, Moh16, MK18, MP15a, Nik17b, SS15b, YYSX19, ZH15]. **spectrum-preserving** [BL18c]. **sphere** [Tan16b]. **spheres** [Che15a, Jia15]. **spherical** [FNX19]. **spin** [Bal15b, CD16a, Kir15]. **Spiral** [BK17b]. **spliced** [BDG15]. **splines** [CFM16, DGP<sup>+</sup>15]. **splitting** [XXZ16, wXL14, wXZ19]. **SPN** [SM18, SMBDK16, SM16]. **Spread** [AA19, ACRR15, AGRR16, AdFRR18, ADLR19, CD16b, LwW16]. **spreads** [ALMZ<sup>+</sup>19, BS16c, Van16b]. **Square** [Bot16b, Bot16a, Bün17, IHS16, Miy15, Shi16e, Shi16g, TH16b]. **Square-zero** [Bot16b, Bot16a, Shi16g]. **Squared** [BS16a, BNST17]. **squares**



[CGDM16, CGM17, DS18b, Eld15, EA17, HK18a, HL19b, JKKL15, KL15, LC19, LHC15, NZZ15, UM16, War17]. **Squaring** [MF16]. **SSD** [WLL19]. **Stability** [CA18, DV18, FKRS17, Lee19b, SL16, SZ19, AM16a, AMV17, BMO15, Dra18, FM17, Fli16, Fre18, GX17, HM17b, Kus16, MP18, Obe16, Oik19, PM15a, PMB15, SNP16, WZL15, XW16, ZH17]. **stabilization** [ZH17]. **stabilize** [PQY15]. **stabilizer** [HS17]. **stable** [BB18, BDRC16, BS19b, GKS19, HLPs19, JCW19, Per18, SSB15a]. **stage** [HK18a, HvdD16]. **stage-structured** [HvdD16]. **staggered** [KIS18]. **staircase** [CMQV16, MGM17]. **Standard** [GIM16, BLdSV19, Lax16, PP18, Ser16]. **Star** [Row15, BMGP15, DY15, GLZ16a, LNT16a, LNT16b, PF18, Row18, WYL19, YCL17, YZLC18, aHRT15]. **star-commuting** [aHRT15]. **star-shapedness** [LNT16a, LNT16b]. **State** [AL19a, GHPS19, ABC<sup>+</sup>16a, CGK<sup>+</sup>17, CGGV15, JKP<sup>+</sup>17, Kir15, TFC19, VB18]. **State-space** [AL19a]. **states** [CF18, GW19a, HYH15, KP17, LM19, Pool15, Sar19]. **static** [Bel16, NN19b]. **Stationary** [LZ15a, SY16a, VB18, Ziz16]. **statistical** [Lop17, Opo16, WYL15]. **Statistics** [DLW15, FI16, Yin18]. **Staudt** [KT19]. **steepest** [VK16]. **Stein** [LLH17]. **Steklov** [AL16]. **step** [NSCV16, iT16, iT19, XXZ16]. **Stiefel** [DSX15]. **Stieltjes** [CK15b, FKM17a, FKM17b, FKMS18, LM17, PS19e, Riv15a, Riv15b, Sch16]. **Stieltjes-type** [FKM17a, FKM17b]. **stochastic** [ATM18, BM16a, Ben18, CLR19, CQCZ19, Chu15, Dah15a, DLB18, DU16b, DKPU18, Ege16, GWW16, GT17, Gow17, KÖ16, NMBA19, Nat19, dCDFK17, dCDFK18]. **stochastic/irreducible** [DLB18]. **Stockmeyer** [Fas19]. **strategies** [KH17]. **stratification** [Dmy17]. **strict** [AGV17, AGV18, Wol18]. **strictly** [Bou16b, Fag19]. **Strong** [BPP16, BS16f, Chu15, DMQ19, AR15b, BPP17, BS16e, BDFR15, DA19a, FGS<sup>+</sup>16, GLMPC18, KSMB15, SG16, Sim19, DDV16, TD15, WT18, Lin16a, SS17a]. **strongly** [AM18, BPR17, BU18, COvdD16, lFwW16, IM19, Jør15, LwW16, QWC15]. **Structural** [CYD19, GLMPC18, TD15, CJKM19a]. **Structure** [Dmy17, GSZ15, SdJY<sup>+</sup>16, aHRT15, BBEE19, BR15, BGCMPB15, BDS15, Bur15, CC16, CILL16, CLZ<sup>+</sup>16b, Der19, EHN16, FK18, Hua15, KKY16, Kob17, KRZ<sup>+</sup>17, KLS17, LLL17, LL16b, MGM17, RJK18, SCS16, SNDM17, SH15b, Tar18, Zaj19]. **structure-preserving** [Bur15, KLS17, LLL17]. **Structured** [AA16, Ano16a, BF18b, BMVW16, HKM18, HvdD16, HPZ18, MAR17, Mar15a, MK18, dSP19b, dSP19c, PM15b, SUBG18]. **structures** [BBMFM17, BGCMASS19, CV18, Dog18, OW17, Opo16, Pan15a]. **Stud** [Zha15a]. **studies** [PZ17a]. **study** [DHW18, GT17, KMS16]. **Sturm** [GM16a, YSZ17]. **subadditive** [CPZ16a]. **subalgebra** [BN17]. **subalgebra-preserving** [BN17]. **subalgebras** [DR17, EEV17]. **subclass** [ZLLL18]. **Subconstituents** [HZ17, ZGW16]. **subdifferential** [CW18b]. **subdirect** [AG17]. **subdivision** [CDRT17]. **subframe** [CLS18]. **Subgraph** [HKS19, HLSP17]. **subgraphs** [FdFdSDV18, KLW18]. **subgroup** [GH15, RB16]. **subgroups** [BRN18, Bie15, HS17, PB16]. **subKautz** [Dal17b]. **submajorization** [Bek16]. **submatrices** [HJ16, MO18, PRS19]. **submatrix** [DS17b]. **submodules** [LMX19]. **subnormal** [BRN18]. **subnormality** [KY18]. **subordinate** [JSST16, JT17]. **subordinated** [DS19b]. **suborthogonal** [Str18]. **subpencil** [SS17b]. **Subresultants**



[BDK<sup>+</sup>17a, DKSV19]. **subsemimodules** [ySpW17, Tan16a]. **subset** [ABG16b]. **subsets** [AJ19, DHS18, NP15c, Shi16d, Vij15]. **Subspace** [Zas16, BBEE19, BMS16a, BS19a, DdFR16, GR16, MMR16, NS18, Ram17, Sch16]. **subspaces** [AW15a, AW15b, Bal15c, Bal19, BB16a, BEKS17, CFP18, CJW19, FMM16, Huh15, MOR16a, MMR17, MMR18, NINS16, Pan15b, RMP18, SK17a, TLL15, WG15, WZL17, XS17]. **substochastic** [CC19, Lju15]. **subtle** [RWH17]. **subtournaments** [MS17b]. **Successful** [CD16c]. **successive** [Miz16]. **such** [CLST18]. **Sudoku** [War17]. **suffice** [NS15b]. **Sufficient** [LSX15, PM15a, Bar17a, ES16, Li15a, MPS17]. **Sugeno** [Mar15b]. **suggested** [NR16b]. **Suleimanova** [PT19]. **sum** [AMR<sup>+</sup>16, AG17, AT15, BJC15, BDDO16, BNST17, Che18b, CLF18, Che19a, Cho19, DMS19, EA17, GAP16, GP18, GF17, GMP16c, Hua19, KS15a, Lee16, Sol18b, Ste18, TXZ18, WH18, dCMP17a]. **summability** [BDG15]. **summation** [JKP16]. **summing** [CDMP15]. **Sums** [BES16, Shi16g, AO18, ABG16b, Bre18, FJS17, FJS21, FdC15, GS15, HS16, HS17, Lot15, Xu17a]. **Sunder** [Lin15c]. **Superadditivity** [UUG15]. **superalgebras** [CCW18, Iop18, LL19, RZ17, WZ17b]. **superdiffusive** [EHL17, EHLP18]. **supereigenvector** [Ser15]. **supereigenvectors** [But16]. **superinvolution** [Iop18]. **superinvolutions** [GIM16]. **supermajorization** [LD17c]. **Superregular** [ANP16]. **superstability** [IT18]. **superstochastic** [LD17c]. **supertail** [NS18]. **supertrees** [XWL17, XWD18, YSS16]. **supertropical** [IKR16, Niv15, Shi16f]. **support** [BP19a, Hill17b]. **supported** [AKPS19, KAPS20, MS15a]. **supporting** [Pan15b]. **Surjective** [YL17]. **survey** [Dal19]. **SVD** [GM16b, GCC18, PS19d]. **SVD-based** [GCC18]. **switching** [BSMSZ19, ETF18, Gre18, IM19, Moh16, WQH19]. **Sylvester** [DIPR18a, DI16, DIPR18b, Dra16b, HAWM16, RMKJ18, Wim16, dCdSA15]. **Sylvester-based** [RMKJ18]. **Sylvester-type** [DIPR18a, DIPR18b, Wim16]. **Symbolic** [Sim19]. **symbols** [BGM<sup>+</sup>19, BBGM16, Lee19a]. **Symmetric** [BBH16, BF19b, CR19a, SCD17, ARS17, BGS15, BGM<sup>+</sup>19, BM19b, BFY18, BLdSV19, BC15b, BDK<sup>+</sup>17b, BGSS18, BHSS18, BC16b, BDFR15, BO17, CP16a, CM18, CS15b, CW18b, DeV19, DP16, Dmy16, Dmy17, DD18, Dmy19, ET18, FOvdD16, FBH19, Fay18, FHH15, GG18, GKR16, GC19, HW15b, JMP17, JZ18, KH17, KLV15, KLL17, KOST15, Lee16, LWY16, LLL17, LDL18, LUC19, LS17b, LNT16c, Ma15, MO16, MPS17, MV16, May15, MM15b, Mon17, Nik17b, OS17, dSP16a, dSP16d, dSP16e, QWC15, RKT15, SR19, Sod18, Sri17, SSB15b, Tar18, VK16, XL18, dCFF17, ES16]. **symmetrically** [BF19a]. **symmetries** [BFW17, FSSW17, FSW19, GS15, LCNZ19, dCMP15, dCdR17]. **symmetrization** [Rad17]. **symmetrized** [HMSC19]. **symmetrizers** [DU16a]. **Symmetry** [PMW19, AH16, FK18, TC15, Tur17, dSRST17]. **Symplectic** [BHSS18, AM19, BF19b, BR17, CG16, DR17, DH19, EH18, HL18, IGW17, RMP18, SH15a, SZ23, WG15, dIC15, dICF16, dCMP17a, dCdR17, dICG18]. **symplectic/orthogonal** [BF19b]. **synaptic** [FJP15a, FJP15b]. **synchronous** [ZZR15]. **synthesis** [BZ16b]. **system** [BTN<sup>+</sup>18, BB16b, GKS19, Hoo19, WZ17a]. **systems** [AAdFS19, BW19, BPZ17, Bell16, BTN<sup>+</sup>18, CC16, CHASSSG15, CDG16, CNX17, CR18b, CL15c, CJ16c, CJ16d, DGCC16,



DGGP18, DTZ16, DFKS17, DS19c, DOR16, FM17, FKRS17, FHS17b, Gór17, Gre18, GBRS15, GHT16, HK18a, Hla15, HR16, Hon18, Hoo19, HM17b, KN16, KVP19, Kur19, LM16a, Lee19b, LX17, Li19, LS18b, LNT16c, MM19a, Nie18, Nie19a, OP15, OP16b, Pas18, RRV15, RW17, SFW18, SR18, SL16, SH15a, Sug17, SS15c, Vas15, VK16, Vij15, WT18, ZH17, Zhu19, dFFRS17]. **Szego** [Fik18, FM19b, MF16].

**T** [MM17a]. **T-modules** [MM17a]. **tableaux** [SS19]. **Takagi** [Mar15b]. **Tangent** [Kut18]. **Tarski** [DP15a]. **Taylor** [DR16, JLM18, SZ19]. **TD** [Nom15b]. **technique** [Row18]. **techniques** [BK16, KS19, RW17]. **technology** [SSCS16]. **Ten** [CRS15]. **Tensor** [CJZ18, GH16a, KKA15, BL18b, BJS18, Bre17, CPZ16b, CLQW17, CF18, CKL17, DH15, DdC16, FuIKT16, GL19, GZB19, dMGC19, GCC18, Hil17a, Hu15, HSS16b, Kut18, LL17, LLV15, LL16c, RSS17, Sar19, Sch15, Shi18c, Sod18, Van17, WDFS17, XCJ18, XFZD17]. **Tensor-tensor** [KKA15]. **Tensors** [ARSZ15, YLB15, BS15d, BWSZ15b, BWSZ15a, BJLD17, CLQW17, CQCZ19, CW15b, CW18b, CLN15, DLB18, DLQ18, DD17c, FBH19, FGS19, GH16a, HYY15, HWXC18, JZZ18, KSMB15, KLN16, KL18b, LS15b, LL15a, LQL15, LCL15, LL16a, LJL16, LUC19, MS17a, NR16a, OP19a, QWC15, Sei18, SY16b, SWB19, Tsu15, XLQC16, Xu16, XCQ18, YZL<sup>+</sup>19, YYQ19, YHY15, ZSWB16, dSRST17]. **term** [De 16b, dMGC19]. **Terminating** [Kwo16]. **terms** [DGCC16, lFwW16, HHL19, LWZ18, MWT16b, TWM16, WM17a, WF19, WWC18, ZWS18]. **ternary** [CN17a, De 16b]. **Terwilliger** [GGH15, GK15, MMP16, Mor16b, MX16]. **tessellable** [HPSS19, KIS18]. **Test** [CILL16]. **th** [Guo19, LG18, YG15]. **their** [ABP15, AJ19, Bal15c, BKNS17, Bar19,

BCC<sup>+</sup>18, BSMSZ19, BDS15, BM17c, BC15b, CR19a, CMV16, CR15, ÇMP18, CIY15, CHK17, CJB18, DGGP18, DLQ18, DdFR16, DHW18, FGH<sup>+</sup>15, GL15b, HT18a, He16b, HS17, He18, HC19, KC16, KHI16a, KHI16b, LTWW15, Lin19, MW15, MLW15, Mas17, MO18, Mor16b, Niv15, PSZ15, PS17, PHW16, RFPS18, Riv15b, RGPH16, SKC18, SCD17, Ter17a, Ulu19, WYL15, Xu16, Yan18].

#### **Theorem**

[MB18, Al'17, BW16, BM16a, BS18a, Bor17, BBS16b, CHASSSG15, CQCZ19, CS15b, DGK<sup>+</sup>17, DDCY17, DP15a, DD16a, DD19, DR16, DPS19, FS17b, GH16a, GKR16, GLW17, HO15, lHS16, Hua19, JZZ18, KT19, Kul15, LN17, LMX19, Mar15a, McK18, NS15a, Pas18, dSP16b, RY15, SB15, TW16, Uch15, VB19, Yin18, BEF16, BL19, JP17, KM19, KLS19b, MG18b, MM19b, Rao18]. **theorems** [AS17, BJC15, BPT15, CFL16, CLLS19, EH18, FK16, GL15b, GL15a, HLSP17, Jen17, MRS18, aHRT15]. **theoretic** [AB15a, FJMP15, GR15, SS18]. **theoretical** [BBT15]. **theory** [BBEE19, CDG16, CGDM16, CLQW17, Che15b, DH19, DE15, Gar17, HMS17, JS18b, KKY16, KNR18, MM16a, Pea15, PM15b, RD15, Tsu15, Wan19, Zha15a]. **There** [AM18]. **theta** [OP15]. **third** [DD17c, Han18, LUC19, Lop15, Obo16]. **third-order** [DD17c]. **Thompson** [CS17, LZ17b]. **thoughts** [HO15]. **Three** [May15, QWC15, Shi17b, BW16, CMV17, CF18, DK16, EHK16, Far19, GW18, HK18a, IKW16, JKKL15, KRZ<sup>+</sup>17, Nom15c, Pal16, Row16b, SY16b, SWZ18, TW17, iT19, YT16, dlCMP17a]. **three-dimensional** [CMV17]. **three-level** [KRZ<sup>+</sup>17]. **three-qubit** [CF18]. **three-stage** [HK18a]. **three-step** [iT19]. **Threshold** [LSM18, AG15a, BM17b, Dah15b, Gho19, HT17, JTT15, LMT19, LHL18a]. **thresholding** [FS19a, RSS17]. **Tight** [CFW15, BGOY15, BFG<sup>+</sup>16, BF17b,



FJKM18, HL17c, LC19, LwW16, Mol18a, RNC17]. **Tighter** [DV19a]. **Tikhonov** [NR16b]. **tiling** [NS15a]. **Time** [UZ19, BMO15, BTN<sup>+</sup>18, BK17c, CG15, CIY15, DHLT19, GKS19, HM17b, JMPS18, KL19a, Mas17, Obe16, PCL15, PMB15, QWW18, SL16, SSF16, WZ17a, ZD15, ZH17]. **time-and-band** [CG15]. **time-delay** [BTN<sup>+</sup>18]. **time-dependent** [DHLT19, PCL15]. **Time-varying** [UZ19, BMO15, HM17b, Obe16, QWW18]. **times** [Hun18a]. **Tingley** [FPGPV17, Tan16b]. **TLS** [HPZ18, HPZ19]. **TN** [JZ16]. **Toda** [Ong18, Zue18]. **Toeplitz** [PW20, AAS18, AdF19, APT17, BGS15, BGM<sup>+</sup>19, BDLM16, BBGM16, CI15a, CI15b, DTZ16, DS19b, DE15, EJ18, EW19, Hon18, HMSC19, KNR18, Lee19a, Nob16, NK18, NSCV16, PSZ15, PW19, SSCS16, Sch17, TNK16, TS18, XW16]. **Toeplitz-block** [NK18]. **toggling** [BH16b]. **top** [Shc16]. **topical** [HM17a]. **topics** [STZ15]. **Topological** [Gar17, dFRS16, dFFRS17, Shi18a, BGCMPB15]. **topologies** [Ost15]. **topology** [ABM16]. **tori** [LZ16c]. **Toric** [YMZ19]. **Toric-Bernstein** [YMZ19]. **Total** [AG16, CLW15, DN18, FJS17, FJS21, GW19b, YMZ19, AG17, ALMZ<sup>+</sup>19, CW19, DHHZ19, DS18b, MGM17]. **Totally** [BV18b, AG17, BP16b, CU18, CSJ16, JZ16, MM16a, MMP17, MMV19, WHG17]. **tournament** [GW17b]. **tournaments** [Ito17]. **TP** [JZ16]. **Trace** [HLS<sup>+</sup>16, KL17, SBB15, AdIPR16, ARR18, BG15, BES19, Ben18, CFL16, Cho17a, Cho17b, CW15b, FPGPV17, Gir19, Hia16a, HL19b, LL15b, Min17, NA17, Ota15, Shi19, SW18a, dIP18]. **traceable** [LSX15]. **traceless** [GG18, Nag15]. **traces** [Sch15, Wan16c]. **traffic** [BCMASS15]. **train** [Kut18]. **transfer** [ABC<sup>+</sup>16a, bCR18, CDRT17, CGK<sup>+</sup>17, CGGV15, JKP<sup>+</sup>17, Kir15, TFC19]. **transform** [BLdS16, CM17, CK15b, KP19, SLY17]. **transformation** [CUPW15, GR15, MMR16, TXZ18, dICF16]. **Transformations** [MS15b, Pan15a, AW15b, BS18c, CMV19, DGSV17, DEH16, DT15, HM16, LUC19, LZ16b, Nom15c, Pan17, Pan19b, Ram17]. **transforms** [EP18b, Far16, KKA15]. **transition** [WC15]. **transitive** [MS17b]. **transplantation** [Her16]. **transportation** [GSS15, War17]. **transpose** [Cho17a]. **Tree** [MM19b, SW15, ADW19, AvdHS16, BS15b, BS16a, Ber17, BPT15, Che19b, CP16b, CSJ16, Gon15, GCQX15, JSST16, JLDs18, KS19, Liu15, LLT19, NS15c, Pud16, ZD16a, ZD16b]. **Trees** [BDVRT15, AdIPR16, ACD19, BKNS17, BOT19, BCJ<sup>+</sup>16, CKS16, DMS16, GS19a, GLMPC18, GP19a, Gu16, HW15c, JS19, JL16a, KSTY18, LD17a, MST15, NS17, Nag19, NS19, NPRS17, YG15, Yua16, ZL15a, ZL15b]. **Trench** [XW16]. **trend** [DLM15]. **triangle** [CPZ16a, LL15b, Row16a]. **triangle-free** [Row16a]. **triangles** [Bar16a, Lin15a]. **Triangular** [EJ19, BJ16, Bie15, BDLM16, BFD18, Bou16b, Cha15, CXLf16, CKT19, DIR16, DTZ16, DHW18, Ere16, Fag19, KKO15, KY17, MV16, OP16a, SP16, SY16b, UG18, Wan15b, Wan15a, Wan16c, WMC15, WHC17, Yan16, YWD16]. **triangularization** [She16]. **tridiagonal** [AdF19, APT17, BGV17, BF18b, Chu19, DM18, DE15, EJ18, HJ16, kJ16, Nom15c, TS18, VHB18]. **Trigonometry** [AGQ19, CRC17]. **Triple** [ABP15, Ben15, BCP16, CC16, EP18a, KVP19, Nom15c, Nom16, Wan16c, XSW17, YL17]. **triples** [AC15, BCP16, FN17, HLG15, LHG15, Nie19b, Ter15, Ter17a, WHG17]. **Tripotency** [Kis15, XX12]. **tripotent** [Kis15, XX12]. **Tropical** [AGN18, GSS15, Tsu15, AGS17, But16, GS16, JK15, JL16b, Kri15, LdlP15, MT16, PS16, Shi16c, TS18, YZZ18]. **Tropicalization** [AK17]. **tropically** [VT18].



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**Ulam** [WH19a]. **Ultra** [Shi16b]. **ultrafriable** [San15]. **unattainable** [BDM18]. **unbalanced** [KL18b]. **Unbiased** [iT19, KRZ<sup>+</sup>17, MB15, Szá16]. **Unbounded** [MNT19]. **uncertain** [CJ16d]. **uncertainty** [CJ16c]. **unconditional** [BCKL17]. **unconstrained** [CDTZ15]. **uncountable** [Hol16]. **underlying** [Der19, LWZ18, LHL18b]. **unextendible** [Szá16]. **unfoldings** [WDFS17]. **unicyclic** [ABH<sup>+</sup>19, BPP17, GRS17, LDZ18, MHL15, OQY17]. **Unification** [Zou19]. **unified** [ACPR15, JLT17, JS18a, Li15a, RD15, YDHX18]. **Uniform** [Lie18, RFPS19, CLS18, Cus17, EM16, GH17, GZ18, HQX15, KNY15, uIKF15, LZB18, LZ16a, LZM16, LZW17, LZ17a, LKY16, PRS19, SY17, XWL17, XWD18, YYQ19, YZL15, YSS16, YQS16, ZKSB17]. **uniformly** [Liu18, Man19]. **Unifying** [LZ17b]. **unimodular** [DS17b]. **Unimodularity** [MB18]. **union** [CHJM18, WM17b]. **Unions** [BES19, LS17a]. **unipotent** [KLS19b]. **unique** [KL18b, LOvdD18]. **Uniquely** [Sma15, Sku17]. **Uniqueness** [DI16, Lee15c, Bal15b, DIPR18a, DIPR18b, DD17c, SZ19, ZC15]. **unit** [Cas19, IR19, LWX17, MS15a, Tan16b]. **unital** [AHV19, CW16a]. **Unitaries** [Sim17]. **Unitarily** [KMS17a, JLM18, MRS18, Sab15, WL15, Zha19b, Zou19]. **Unitary** [CN18, Jin15, BBSS18, BN17, CCiT18, CN17a, CN17b, CS18b, CLP16, DDCY17, DD16a, DD19, FR15, FR18, HT18a, HC19, IW15, KM15b, KIS18, Lau18, LZ15d, MHN18, MY19, TC15, VB19]. **unitriangular** [VLGS15]. **unity** [GM19]. **univariate** [DKSV19]. **Universal** [CJS18, BY19, Bou16a, JMPS19, NT17]. **Universality** [CGK<sup>+</sup>17]. **University** [Bar15, GHPS19]. **unsolvability** [HR16]. **update** [PS19d]. **updated** [BCU15]. **Upper** [ARR18, AGRR16, bCR18, GRS15, LZM16, MS17b, WF19, Yan16, AM19, BG15, BFD18, Bou16b, CXLF16, CLF18, DR18, DHW18, Ere16, Fag19, KY17, Moll18a, SP16, UG18, Wan15a, WMC15, WHC17, Xu17b, YZL15, ZWS18]. **Using**



[Lin16a, BB16a, CMV19, CKM16, DU16a, HAWM16, JKP<sup>+</sup>17, Ken16, Ong18, Pan15b, Saw16, VV18, WZ17a, YDHX18]. **usual** [CHB15].

**valency** [QKP16]. **valuations** [ABG16a]. **value** [ÁVAK<sup>+</sup>19, GR15, Lop15, MVPST19, Piv19, YZL<sup>+</sup>19]. **valued** [FKM17b, FS19b, HJ19, KKLP17, Lee19a, Zam16]. **values** [AdlPR16, AG15b, AG20, BBH16, BMR17, BTN<sup>+</sup>18, GT18, Hoo15, JSST16, Lan15, Nie19c, TY15, TW18b, XvdBvdLS15, Zou17]. **Vandermonde** [BLdS16, MM16a, MMP17, MMV19, Xu16]. **Vandermonde-type** [BLdS16]. **variable** [BDDSC17, KY15, KY18, LY16]. **variable-coefficient** [BDDSC17]. **variables** [ACS19, BLdSV19, BP19b, Naj17]. **variance** [BFFN16]. **variants** [BS17, Far19, Lin19]. **variate** [Mat15a, MP17]. **variation** [MHS15]. **variations** [HW16]. **varieties** [BF19b, BS16d, CVV19, Gal17, Han18, Kut18]. **variety** [FI19b, Gal19, MT16, Oed17, Rin17]. **Various** [HK18b, HS19b, MR17a]. **varying** [BMO15, HM17b, Obe16, QWW18, Sug17, UZ19]. **Vector** [Gal17, BP19b, BDFR15, CFW15, CG19c, DdFR16, EM16, FS17a, GP19a, Gol17, HW15a, HHR16, LH17, Mag16, OBRA15, Pan17]. **Vectorial** [ÇMP18]. **vectors** [BJC15, BP19a, FR15, GH16a, LZ15a, RMP18, SY16a, Vec16]. **Verified** [Miy19]. **Veronese** [Gal19, Han18]. **Vershik** [GH15]. **version** [IHS16]. **versions** [AL19b, KMOR19, RWH17]. **versus** [GLMPC18]. **Vertex** [HXL19, AHJR18, ALOR19, CEGM16, Fer15, OL16, RMS16, TWM16, WM17a]. **Vertex-connectivity** [HXL19]. **vertical** [CJB18]. **vertices** [CPR18, FdC18, FJ19, QKP16]. **via** [BS18a, BA15, BDP<sup>+</sup>18b, CM17, bCR18, CRRY15, CK15b, CS18a, CYD19, CP17, Col19, CLZ<sup>+</sup>16b, DKS15, DEH16, FMR19,

FS19b, GX17, HJW19, Hun16, IM19, LHC15, MAR17, MV16, MN19a, Mes17, NSCV16, OP16b, PT19, RSS17, Sab18, SSCS16, San15, UZ19, ZSWB16]. **view** [JP17, Riv15a]. **views** [BBT15]. **Vladimir** [BBF19]. **vol** [Bru16a, Zha15a]. **volume** [MO18]. **volumes** [Bil19]. **Vong** [Bru16a]. **Voronoi** [GMLdS16, GMLT19]. **VSPs** [Jel18].

## Walk

[KKS18, QKP16, HKS19, KIS18, KSTY19]. **walk-regularity** [HKS19, KKS18]. **walks** [AGHN18, CRRY15, DMS16, HPSS19, KSTY18, LT18]. **wandering** [BEKS17]. **Wang** [Bah19]. **Waring** [CCGO17, Tok17]. **Waring-like** [CCGO17]. **Wasserstein** [BJL19, HL17a]. **Wave** [Far16, BS18a]. **waveguide** [RMKJ18]. **wavelet** [HL17c]. **Weak** [BMO15, BCP16, CP16a, Lju15, LD17c, NP15a, CRRY15, HHR16, LD16b, LD17b, MP15b, Nie19b, Obe16]. **Weak-** [CP16a, NP15a]. **Weak-local** [BCP16]. **weakly** [BmBCC17, FBH19, MC19, VK19]. **Wedderburn** [Mar15a, SB15]. **Wedderburn-type** [Mar15a]. **wedge** [HP15]. **wedge-shaped** [HP15]. **weight** [Abi19, GM15, LZ16c, ZHC16]. **weight-regular** [Abi19]. **Weighted** [ABvN19, BMN16, CGM17, JL16b, Mos17, BPP16, BH16a, DDF17b, DPS19, DL16, HS17, KY15, KY18, KS19, KMS16, KMMS19, LK16, LY16, Lee19a, LS19, LC19, Mac16, MMS18, PP17a, RT16, TNK16, UYY17, WLWZ19]. **weights** [ABK19, BS15b, SSS15, TZK17, Yus17, ZD16a, ZD16b]. **well** [Bar16b, Zho17]. **well-conditioned** [Bar16b]. **well-defined** [Zho17]. **Weng** [Bru16a]. **Weyl** [FKRS17]. **Weyr** [FMM16, OW17]. **Where** [Beh17, BF15, CR19a]. **Which** [ZLS17, BMN16, EP18a, JDS17, LwW16, PP17b]. **Whitehead** [BBMFM17]. **whose** [BS19a, DTZ16, HL19b, JZ18, JLDS18,



MHL15, MWT16a, NS15c, OS17, SUY16, Ter18, TW17, WWT18]. **width** [CNM19, FHJT19]. **Wielandt** [ABR18, CJ17a, GH16a, LSZ18]. **Wiener** [BBdH16, BBdH18, JS18b]. **Wigner** [IT18, Ngu18]. **Wildness** [BP19b, FKPS18, FGS19]. **Williamson** [SZ23, IGW17]. **Williford** [BM19a]. **windmill** [Koo19]. **Wirtinger** [LZQ19]. **Wirtinger-Northcott** [LZQ19]. **wise** [AG17]. **Wishart** [ME15]. **without** [Eve18, GH19, SUY16, WZZ19]. **witnesses** [JP18]. **Wold** [BBEE18]. **Wold-type** [BBEE18]. **Wong** [NP15b]. **Woodbury** [ACM15]. **work** [Pan15a]. **World** [Bru16a, Tsa16b]. **Wreath** [DD17a, MX16, Xu17a]. **‘Wrong’** [AL18]. **WST** [BC19b]. **WST-decomposition** [BC19b]. **Wu** [CDR<sup>+</sup>19, Lee15b]. **Wuven** [AB15b].

**Xiao** [Bru16a]. **Xiao-Qing** [Bru16a]. **Xingzhi** [Zha15a].

**Yakubovich** [RRV15]. **Yamazaki** [DDF17a]. **Yang** [SS18]. **years** [CRS15]. **yielding** [Alf18a]. **yields** [DTZ16]. **Young** [MN15, SS19].

**Zero** [ALH15, BDDO16, Gao18, Lin19, TD15, AJPS16, BES16, Ben18, BOvdD17, Bot16a, Bot16b, CW18a, EJ17, FMY16, FWB<sup>+</sup>19, FGG<sup>+</sup>18, HLPS19, Hil17b, HL19b, KL19a, Lin16a, MM17b, MS16c, Nom15b, PM15b, Ram16, Shi16g, Shi17b, SW18a, Wan15a, WMC15]. **zero-diagonal** [Nom15b]. **zero-divisor** [Wan15a]. **Zero-nonzero** [Gao18, BOvdD17, FGG<sup>+</sup>18, MM17b, Shi17b]. **zeros** [AO18, BBP19, Cas19, CMQV16, HK19a, PW18]. **zeta** [DM15, KMS16, KMMS19, Som17, TH16a]. **Zhan** [Zha15a]. **Zhang** [QWW18, UZ19]. **zigzag** [DDMV16]. **Zusmanovich** [LCWZ19, ZLLL18].

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[AA16]

[AA17]

[AA19]

[AAB<sup>+</sup>16]

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[Ais18b]

Kensuke Aishima. A quadratically convergent algorithm for inverse eigenvalue problems with multiple eigenvalues. *Linear Algebra and its Applications*, 549(??):30–52, July 15, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518301320>

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[AJ19]

Mohsen Aliabadi and Mano Vikash Janardhanan. On matchable

subsets in abelian groups and their linear analogues. *Linear Algebra and its Applications*, 582(??):138–155, December 1, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379519303416>

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Adel Alahmadi, S. K. Jain, and André Leroy. Quasi-permutation singular matrices are products of idempotents. *Linear Algebra and its Applications*, 496(??):487–495, May 1, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516000884>

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- [AK16a] Shavkat Ayupov and Karimbergen Kudaybergenov. 2-local automorphisms on finite-dimensional Lie algebras. *Linear Algebra and its Applications*, 507(?):121–131, October 15, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516302178>. **Ayupov:2016:LDF** [ÁKM17]
- [AK16b] Shavkat Ayupov and Karimbergen Kudaybergenov. Local derivations on finite-dimensional Lie algebras. *Linear Algebra and its Applications*, 493(?):381–398, March 15, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515007089>. **Allamigeon:2017:TFP** [AK17]
- Xavier Allamigeon and Ricardo D. Katz. Tropicalization of facets of polytopes. *Linear Algebra and its Applications*, 523(?):79–101, June 15, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517300873>. **Aldalabih:2019:HSN**
- Alaa Aldalabih and Fuad Kittaneh. Hilbert–Schmidt numerical radius inequalities for operator matrices. *Linear Algebra and its Applications*, 581(?):72–84, November 15, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002437951930285X>. **Alvarez:2017:ESR**
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- N. Atreas, N. Karantzas, M. Papadakis, and T. Stavropoulos. On the design of multi-dimensional compactly supported Parseval framelets with directional characteristics. *Linear Algebra and*



*its Applications*, 582(?): 1–36, December 1, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379519303155>. See erratum [KAPS20].

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[AKR15]

Shavkat Ayupov, Karimbergen Kudaybergenov, and Isamiddin Rakhimov. 2-local derivations on finite-dimensional Lie algebras. *Linear Algebra and its Applications*, 474(?):1–11, June 1, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515000452>.

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[AKS17a]

Anchal Aggarwal, Yogesh Kapil, and Mandeep Singh. Contractive maps on operator ideals and norm inequalities II. *Linear Algebra and its Applications*, 513(?):182–200, January 15, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002437951630489X>.

**Aggarwal:2017:CMOb**

[AKS17b]

Anchal Aggarwal, Yogesh Kapil, and Mandeep Singh. Contractive maps on operator ideals and norm inequalities III. *Linear Algebra and its Applications*, 530(?):322–343, October 1, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517303129>. See [IHM08].

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**Altinisik:2016:CIH**

Ercan Altinisik, Ali Keskin, Mehmet Yildiz, and Murat Demirbüken. On a conjecture of Ilmonen, Haukkanen and Merikoski concerning the smallest eigenvalues of certain GCD related matrices. *Linear Algebra and its Applications*, 493(?):1–13, March 15, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515006977>.

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Tsuyoshi Ando and Minghua Lin. Proof of a conjectured lower bound on the chromatic number of a graph. *Linear Algebra and its Applications*, 485(?):480–484, November 15, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515004723>.

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Mario Arioli and Daniel



Loghin. Spectral analysis of the anisotropic Steklov–Poincaré matrix. *Linear Algebra and its Applications*, 488(??):168–183, January 1, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515005674> [AL19b]

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[AL’17]

Yu. A. Al’pin. The Hankel matrix rank theorem revisited. *Linear Algebra and its Applications*, 534(??):97–101, December 1, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002437951730486X>

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[AL18]

Daniel Alpay and Izchak Lewkowicz. ‘Wrong’ side interpolation by positive real rational functions. *Linear Algebra and its Applications*, 539(??):175–197, February 15, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517305402> [Alf15]

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[AL19a]

Daniel Alpay and Izchak Lewkowicz. Composition of rational functions: State-space realization and appli-

cations. *Linear Algebra and its Applications*, 580(??):359–383, November 1, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379519302666>

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Owe Axelsson and Zhao-Zheng Liang. Parameter modified versions of preconditioning and iterative inner product free refinement methods for two-by-two block matrices. *Linear Algebra and its Applications*, 582(??):403–429, December 1, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379519303118>

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A. Y. Alfakih. On Farkas lemma and dimensional rigidity of bar frameworks. *Linear Algebra and its Applications*, 486(??):504–522, December 1, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002437951500508X>

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A. Y. Alfakih. On yielding and jointly yielding entries of Euclidean distance ma-



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- [ALMZ<sup>+</sup>19] **Andrade:2019:BDS** Enide Andrade, Eber Lenes, Exequiel Mallea-Zepeda, María Robbiano, and Jonathan Rodríguez Z. Bounds for different spreads of line and total graphs. *Linear Algebra and its Applications*, 579(?):365–381, October 15, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <https://www.sciencedirect.com/science/article/pii/S0024379519302599> ■
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- Argimiro Arratia and Carlos Marijuán. On graph combinatorics to improve eigenvector-based measures of centrality in directed networks. *Linear Algebra and its Applications*, 504(??):325–353, September 1, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516301100>
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- [AM18] Jernej Azarija and Tilen Marc. There is no  $(75, 32, 10, 16)$  strongly regular graph. *Linear Algebra and its Applications*, 557(??):62–83, November 15, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856
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- (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518303458> [AMH11]
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- [AM19] Keshav Raj Acharya and Matt McBride. Action of complex symplectic matrices on the Siegel upper half space. *Linear Algebra and its Applications*, 563(??):47–62, February 15, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002437951830507X>
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- [AMC18] Hamid Reza Afshin, Mohammad Ali Mehrjoofard, and Akbar Zare Chavoshi. Pauli group: Classification and joint higher rank numerical range. *Linear Algebra and its Applications*, 549(??):136–152, July 15, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518301186> [AMNR18]
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- Enide Andrade, Cristina Manzaneda, Hans Nina, and María Robbiano. Block matrices and Guo’s index for block circulant matrices with circulant blocks. *Linear Algebra and its Applications*, 556(??):301–322, November 1, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518303410>
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- José Agapito, Ângela Mestre, Pasquale Petrullo, and Maria M. Torres. Combinatorics of a generalized Narayana identity. *Linear Algebra and its Ap-*



*plications*, 503(??):56–82, August 15, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516300507> ■

**Abara:2016:EMS**

[AMR<sup>+</sup>16]

Ma. Nerissa M. Abara, Dennis I. Merino, Viacheslav I. Rabanovich, Vladimir V. Sergeichuk, and John Patrick Sta. Maria. Each  $n$ -by- $n$  matrix with  $n > 1$  is a sum of 5 con-involutory matrices. *Linear Algebra and its Applications*, 508(??):246–254, November 1, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516302737> ■

**Andrade:2018:RLC**

[AMR18]

Enide Andrade, Cristina Manzaneda, and María Robbiano. Realizable lists on a class of nonnegative matrices. *Linear Algebra and its Applications*, 551(??):36–56, August 15, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518301824> ■

**Aghamollaei:2019:LPP**

[AMR19]

Gh. Aghamollaei, L. W. Marcoux, and H. Radjavi.

Linear preservers of polynomial numerical hulls of matrices. *Linear Algebra and its Applications*, 575(??):27–34, August 15, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379519301363> ■

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[AMV17]

Alexander Aleksandrov, Oliver Mason, and Anna Vorob'eva. Diagonal Riccati stability and the Hadamard product. *Linear Algebra and its Applications*, 534(??):158–173, December 1, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517304913> ■

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A. Amparan, S. Marcaida, and I. Zaballa. On coprime rational function matrices. *Linear Algebra and its Applications*, 507(??):1–31, October 15, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516302051> ■

**Amparan:2017:MPS**

A. Amparan, S. Marcaida, and I. Zaballa. On matrix polynomials with the same finite and infinite elemen-



tary divisors. *Linear Algebra and its Applications*, 513(??):1–32, January 15, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516304621>

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[AN17]

Imam Nugraha Albania and Masaru Nagisa. Some families of operator norm inequalities. *Linear Algebra and its Applications*, 534(??):102–121, December 1, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517303944>

**Aron:2017:OEH**

[ANAPSR17]

R. M. Aron, D. Núñez-Alarcón, D. M. Pellegrino, and D. M. Serrano-Rodríguez. Optimal exponents for Hardy–Littlewood inequalities for  $m$ -linear operators. *Linear Algebra and its Applications*, 531(??):399–422, October 15, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517303713>

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[And15]

Esteban Andruchow. Parametrizing projections with self-adjoint operators. *Lin-*

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**Anonymous:2015:EBa**

Anonymous. Editorial Board. *Linear Algebra and its Applications*, 464(??):ii–iii, January 1, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379514006697>

**Anonymous:2015:EBb**

Anonymous. Editorial Board. *Linear Algebra and its Applications*, 465(??):ii–iii, January 15, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379514007071>

**Anonymous:2015:EBc**

Anonymous. Editorial Board. *Linear Algebra and its Applications*, 466(??):ii–iii, February 1, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379514007423>



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|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Ano15d] | <div data-bbox="492 363 799 405" style="border: 1px solid black; padding: 2px; text-align: center;">Anonymous:2015:EBd</div> <p>Anonymous. Editorial Board. <i>Linear Algebra and its Applications</i>, 467(?):ii–iii, February 15, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <a href="http://www.sciencedirect.com/science/article/pii/S0024379514007848">http://www.sciencedirect.com/science/article/pii/S0024379514007848</a></p> | [Ano15h] | <div data-bbox="1047 363 1354 405" style="border: 1px solid black; padding: 2px; text-align: center;">Anonymous:2015:EBh</div> <p>Anonymous. Editorial Board. <i>Linear Algebra and its Applications</i>, 473(?):ii–iii, May 15, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <a href="http://www.sciencedirect.com/science/article/pii/S002437951500244X">http://www.sciencedirect.com/science/article/pii/S002437951500244X</a></p>    |
| [Ano15e] | <div data-bbox="492 716 799 758" style="border: 1px solid black; padding: 2px; text-align: center;">Anonymous:2015:EBe</div> <p>Anonymous. Editorial Board. <i>Linear Algebra and its Applications</i>, 468(?):ii–iii, March 1, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <a href="http://www.sciencedirect.com/science/article/pii/S0024379514008076">http://www.sciencedirect.com/science/article/pii/S0024379514008076</a></p>     | [Ano15i] | <div data-bbox="1047 716 1354 758" style="border: 1px solid black; padding: 2px; text-align: center;">Anonymous:2015:EBi</div> <p>Anonymous. Editorial Board. <i>Linear Algebra and its Applications</i>, 474(?):ii–iii, June 1, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <a href="http://www.sciencedirect.com/science/article/pii/S0024379515001615">http://www.sciencedirect.com/science/article/pii/S0024379515001615</a></p>    |
| [Ano15f] | <div data-bbox="492 1068 799 1110" style="border: 1px solid black; padding: 2px; text-align: center;">Anonymous:2015:EBf</div> <p>Anonymous. Editorial Board. <i>Linear Algebra and its Applications</i>, 469(?):ii–iii, March 15, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <a href="http://www.sciencedirect.com/science/article/pii/S0024379515000051">http://www.sciencedirect.com/science/article/pii/S0024379515000051</a></p>  | [Ano15j] | <div data-bbox="1047 1068 1354 1110" style="border: 1px solid black; padding: 2px; text-align: center;">Anonymous:2015:EBj</div> <p>Anonymous. Editorial Board. <i>Linear Algebra and its Applications</i>, 475(?):ii–iii, June 15, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <a href="http://www.sciencedirect.com/science/article/pii/S0024379515001743">http://www.sciencedirect.com/science/article/pii/S0024379515001743</a></p> |
| [Ano15g] | <div data-bbox="492 1415 799 1457" style="border: 1px solid black; padding: 2px; text-align: center;">Anonymous:2015:EBg</div> <p>Anonymous. Editorial Board. <i>Linear Algebra and its Applications</i>, 472(?):ii–iii, May 1, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <a href="http://www.sciencedirect.com/science/article/pii/S002437951500107X">http://www.sciencedirect.com/science/article/pii/S002437951500107X</a></p>     | [Ano15k] | <div data-bbox="1047 1415 1354 1457" style="border: 1px solid black; padding: 2px; text-align: center;">Anonymous:2015:EBk</div> <p>Anonymous. Editorial Board. <i>Linear Algebra and its Applications</i>, 476(?):ii–iii, July 1, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <a href="http://www.sciencedirect.com/science/article/pii/S0024379515001962">http://www.sciencedirect.com/science/article/pii/S0024379515001962</a></p>  |



- |          |                                                                                                                                                                                                                                                                                                                                  |          |                                                                                                                                                                                                                                                                                                                                   |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          | <b>Anonymous:2015:EBI</b>                                                                                                                                                                                                                                                                                                        |          | <b>Anonymous:2015:EBp</b>                                                                                                                                                                                                                                                                                                         |
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- [Ano19-44] **Anonymous:2019:EBar**  
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Amer Abu-Omar and Fuad Kittaneh. Numerical radius



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Enide Andrade, María Robbiano, and B. San Martín. A lower bound for the energy of symmetric matrices and graphs. *Linear Algebra and its Applications*, 513(??):264–275, January 15, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516304955>

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[ARSB18]

Eleonora Andreotti, Daniel Remondini, Graziano Servizi, and Armando Bazzani. On the multiplicity of Laplacian eigenvalues and Fiedler partitions. *Linear Algebra and its Applications*, 544(??):206–222, May 1, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518300156>

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[ARSZ15]

Elizabeth S. Allman, John A. Rhodes, Bernd Sturmfels, and Piotr Zwiernik. Tensors of nonnegative rank two. *Linear Algebra and*

*its Applications*, 473(??):37–53, May 15, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379513006812>

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Daniel Alpay and Irene Sabadini. Beurling–Lax type theorems in the complex and quaternionic setting. *Linear Algebra and its Applications*, 530(??):15–46, October 1, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517302860>

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Firouzeh Ashraf. Energy, matching number and odd cycles of graphs. *Linear Algebra and its Applications*, 577(??):159–167, September 15, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379519301879>

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Saeed Ahmadizadeh, Iman Shames, Samuel Martin, and Dragan Nesić. Corrigendum to “On eigenvalues of Laplacian matrix for a class of directed signed graphs” [*Linear Algebra*



bra Appl. **523** (2017) 281–306]. *Linear Algebra and its Applications*, 530(?): 541–557, October 1, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517303865>. See [ASMN17b].

**Ahmadizadeh:2017:ELM**

[ASMN17b]

Saeed Ahmadizadeh, Iman Shames, Samuel Martin, and Dragan Nesić. On eigenvalues of Laplacian matrix for a class of directed signed graphs. *Linear Algebra and its Applications*, 523(?):281–306, June 15, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517301301>. See corrigendum [ASMN17a].

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[AT15]

M. Amooshahi and B. Taeri. Cayley sum color and anti-circulant graphs. *Linear Algebra and its Applications*, 466(?):409–420, February 1, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379514007009>.

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[ATM18]

Iman Adeli, Maryam Taheri, and Mahmoud Mohseni

Moghadam. A recursive method for constructing doubly stochastic matrices and inverse eigenvalue problem. *Linear Algebra and its Applications*, 537(?): 318–331, January 15, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517305748>.

**Alvarez-Vizoso:2019:GCR**

[ÁVAK<sup>+</sup>19]

J. Álvarez-Vizoso, Robert Arn, Michael Kirby, Chris Peterson, and Bruce Draper. Geometry of curves in  $\mathbf{R}^n$  from the local singular value decomposition. *Linear Algebra and its Applications*, 571(?):180–202, June 15, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379519300618>.

**Arav:2015:ISS**

[AvdHS15]

Marina Arav, Hein van der Holst, and John Sinkovic. On the inertia set of a signed graph with loops. *Linear Algebra and its Applications*, 471(?):169–183, April 15, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379514008258>.



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[Bal17a]

E. Ballico. Non-integral elements in holomorphic algebras. *Linear Algebra and its Applications*, 520(??):77–79, May 1, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517300435> ■

**Ballico:2017:NRM**

[Bal17b]

E. Ballico. On the numerical range of matrices over a finite field. *Linear Algebra and its Applications*, 512(??):162–171, January 1, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516304359> ■  
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**Ballico:2018:CNR**

[Bal18]

E. Ballico. Corrigendum to “On the numerical range of matrices over a finite field” [Linear Algebra Appl. 512 (2017) 162–171]. *Linear Algebra and its Applications*, 556(??):421–427, November 1, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518303550> ■  
See [Bal17b].

**Ballico:2019:NRF**

[Bal19]

E. Ballico. Numerical range over finite fields: Restriction to subspaces. *Linear Algebra and its Applications*, 571(??):1–13, June 15, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379519300680> ■

**Banasiak:2016:EFL**

[Ban16]

J. Banasiak. Explicit formulae for limit periodic flows on networks. *Linear Algebra and its Applications*, 500(??):30–42, July 1, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516001695> ■

**Bart:2015:RMA**

[Bar15]

Harm Bart. Review of *Matrix Analysis*, second edition, Roger A. Horn, Charles R. Johnson. Cambridge University Press, Cambridge, Melbourne etc. (2013), ISBN: 978-0-521-54823-6. *Linear Algebra and its Applications*, 466(??):527–529, February 1, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379514006922> ■



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 Paul Barry. Riordan arrays, generalized Narayana triangles, and series reversion. *Linear Algebra and its Applications*, 491(?):343–385, February 15, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515006618>. [Bar19]
- [Bar16b] **Barvinok:2016:CMD**  
 Alexander Barvinok. Concentration of the mixed discriminant of well-conditioned matrices. *Linear Algebra and its Applications*, 493(?):120–133, March 15, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515007223>. [BB16a]
- [Bar17a] **Barabanov:2017:NSC**  
 N. E. Barabanov. Necessary and sufficient conditions for solvability of the Riccati inequalities in the general case. *Linear Algebra and its Applications*, 513(?):33–54, January 15, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516303822>.
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 Giovanni Barbarino. Equivalence between GLT sequences and measurable functions. *Linear Algebra and its Applications*, 529(?):397–412, September 15, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517302896>. [Barry:2019:HRA]
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 Peter Benner and Zvonimir Bujanović. On the solution of large-scale algebraic Riccati equations by using low-dimensional invariant subspaces. *Linear Algebra and its Applications*, 488(?):430–459, January 1, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002437951500542X>.
- Breiding:2016:DER**  
 Paul Breiding and Peter Bürgisser. Distribution of the eigenvalues of a ran-



dom system of homogeneous polynomials. *Linear Algebra and its Applications*, 497(??):88–107, May 15, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516001221>

**Beltita:2017:NOP**

[BB17] Ingrid Beltita and Daniel Beltita. Nonlinear oblique projections. *Linear Algebra and its Applications*, 533(??):451–467, November 15, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002437951730469X>

**Bazan:2018:SMI**

[BB18] Fermín S. V. Bazán and Everton Boos. Schultz matrix iteration based method for stable solution of discrete ill-posed problems. *Linear Algebra and its Applications*, 554(??):120–145, October 1, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518302623>

**Bolla:2015:SPM**

[BBC<sup>+</sup>15] Marianna Bolla, Brian Bullins, Sorathan Chaturapruek, Shiwen Chen, and Katalin Friedl. Spectral

properties of modularity matrices. *Linear Algebra and its Applications*, 473(??):359–376, May 15, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379514007186>

**Belardo:2018:SBG**

Francesco Belardo, Maurizio Brunetti, and Adriana Ciampella. Signed bicyclic graphs minimizing the least Laplacian eigenvalue. *Linear Algebra and its Applications*, 557(??):201–233, November 15, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518303549>

**Baragana:2016:RWH**

Itziar Baragaña, M. Asunción Beitia, and Inmaculada de Hoyos. A refined Wiener–Hopf equivalence relation for polynomial matrices. *Linear Algebra and its Applications*, 506(??):342–362, October 1, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516302245>

**Baragana:2018:CFR**

Itziar Baragaña, M. Asunción Beitia, and Inmaculada



de Hoyos. Canonical form for the refined Wiener–Hopf equivalence relation for non-singular  $3 \times 3$  polynomial matrices. *Linear Algebra and its Applications*, 542(??):527–556, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517304391>

**Bagheri-Bardi:2018:WTD**

[BBEE18]

G. A. Bagheri-Bardi, A. Elyaspour, and G. H. Esslamzadeh. [BBFF17] Wold-type decompositions in Baer  $\ast$ -rings. *Linear Algebra and its Applications*, 539(??):117–133, February 15, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517306134>

**Bagheri-Bardi:2019:RAS**

[BBEE19]

G. A. Bagheri-Bardi, A. Elyaspour, and G. H. Esslamzadeh. The role of algebraic structure in the invariant subspace theory. [BBGM16] *Linear Algebra and its Applications*, 583(??):102–118, December 15, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379519303696>

**Bebiano:2019:PSI**

[BBF19]

Natalia Bebiano, Matej Bre-

sar, and Vyacheslav Futorny. Preface to the special issue dedicated to Vladimir Sergeichuk on the occasion of his 70th birthday. *Linear Algebra and its Applications*, 568(??):1–9, May 1, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002437951930062X>

**Bueno:2017:SCH**

M. I. Bueno, J. Breen, S. Ford, and S. Furtado. On the sign characteristic of Hermitian linearizations in  $\mathbf{DL}(P)$ . *Linear Algebra and its Applications*, 519(??):73–101, April 15, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516306346>

**Bogoya:2016:EHT**

J. M. Bogoya, A. Böttcher, S. M. Grudsky, and E. A. Maximenko. Eigenvectors of Hermitian Toeplitz matrices with smooth simple-loop symbols. *Linear Algebra and its Applications*, 493(??):606–637, March 15, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515007314>



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**Baklouti:2018:JSR**

[BF18a]

Hamadi Baklouti and Kais Feki. On joint spectral radius of commuting operators in Hilbert spaces. *Linear Algebra and its Applications*, 557(??):455–463, November 15, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518303963>.

[BF19b]

**Bigeni:2019:SDC**

Ange Bigeni and Evgeny Feigin. Symmetric Delac configurations and symplectic/orthogonal flag varieties. *Linear Algebra and its Applications*, 573(??):54–79, July 15, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379519301168>.

**Bebiano:2018:SDN**

[BF18b]

Natália Bebiano and Susana Furtado. Structured distance to normality of tridiagonal matrices. *Linear Algebra and its Applications*, 552(??):239–255, September 1, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518302179>.

[BF19c]

**Bluhm:2019:DRS**

Andreas Bluhm and Daniel Stilck França. Dimensionality reduction of SDPs through sketching. *Linear Algebra and its Applications*, 563(??):461–475, February 15, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518305354>.

**Bebiano:2019:RAS**

[BF19a]

Natália Bebiano and Susana Furtado. A reducing approach for symmetrically sparse banded and anti-banded matrices. *Linear Algebra and its Applications*, 581(??):36–50, November 15, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379519302873>.

[BFA18]

**Baklouti:2018:JNR**

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- [BFFN16] R. A. Bailey, Sandra S. Ferreira, Dário Ferreira, and Célia Nunes. Estimability of variance components when all model matrices commute. *Linear Algebra and its Applications*, 492(??):144–160, March 1, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515006655>. **Bailey:2016:EVC**
- [BFG<sup>+</sup>16] Albrecht Böttcher, Lenny Fukshansky, Stephan Ramon Garcia, Hiren Maharaj, and Deanna Needell. Lattices from equiangular tight frames. *Linear Algebra and its Applications*, 510(??):395–420, December 1, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516303974>. See addendum [BF17b]. **Bapat:2017:P**
- [BFH<sup>+</sup>17] Ravindra B. Bapat, Shmuel Friedland, John Holbrook, Roger Horn, and Fuad Kitaneh. Preface. *Linear Algebra and its Applications*, 528(??):1–16, September 1, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002437951730157X>. **Benzi:2019:GAN**
- [BFM19] Michele Benzi, Paraskevi Fika, and Marilena Mitrouli. Graphs with absorption: numerical methods for the absorption inverse and the computation of centrality measures. *Linear Algebra and its Applications*, 574(??):123–152, August 1, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379519301338>. **Brugger:2018:ACC**
- [BFMK18] Matthias Brugger, Maximilian Fiedler, Bernardo González Merino, and Anja Kirschbaum. Additive colourful Carathéodory type results with an application to radii. *Lin-*



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mains and related problems. *Linear Algebra and its Applications*, 511(??):226–236, December 15, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516304207> ■

**Bernal-Gonzalez:2015:SSF**

[BGCMPB15] L. Bernal-González, M. C. Calderón-Moreno, and J. A. Prado-Bassas. The set of space-filling curves: Topological and algebraic structure. *Linear Algebra and its Applications*, 467(??):57–74, February 15, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379514007381> ■

**Bernal-Gonzalez:2017:IDH**

[BGdCCMSS17] Luis Bernal-González, María del Carmen Calderón-Moreno, and Juan Benigno Seoane-Sepúlveda. Infinite dimensional holomorphic non-extendability and algebraic genericity. *Linear Algebra and its Applications*, 513(??):149–159, January 15, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516304815> ■

**Bru:2016:CMS**

Rafael Bru, Maria T. Gassó, Isabel Giménez, and Máximo Santana. Combined matrices of sign regular matrices. *Linear Algebra and its Applications*, 498(??):88–98, June 1, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379514008003> ■

**Belton:2019:SKM**

Alexander Belton, Dominique Guillot, Apoorva Khare, and Mihai Putinar. Simultaneous kernels of matrix Hadamard powers. *Linear Algebra and its Applications*, 576(??):142–157, September 1, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518301459> ■

**Batalshchikov:2019:AEL**

A. A. Batalshchikov, S. M. Grudsky, I. S. Malisheva, S. S. Mihalkovich, E. Ramírez de Arellano, and V. A. Stukopin. Asymptotics of eigenvalues of large symmetric Toeplitz matrices with smooth simple-loop symbols. *Linear Algebra and its Applications*, 580(??):292–335, November 1, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856



(electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379519302691>

**Barg:2015:FTD**

[BGOY15]

Alexander Barg, Alexey Glazyrin, Kasso A. Okoudjou, and Wei-Hsuan Yu. [BGT<sup>+</sup>19] Finite two-distance tight frames. *Linear Algebra and its Applications*, 475(??):163–175, June 15, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515001263>

**Batalshchikov:2015:AES**

[BGS15]

A. A. Batalshchikov, S. M. Grudsky, and V. A. Stukopin. [BGV17] Asymptotics of eigenvalues of symmetric Toeplitz band matrices. *Linear Algebra and its Applications*, 469(??):464–486, March 15, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379514007691>

**Bovdi:2018:RPS**

[BGSS18]

Victor A. Bovdi, Tatiana G. Gerasimova, Mohamed A. Salim, and Vladimir V. Sergeichuk. [BH16a] Reduction of a pair of skew-symmetric matrices to its canonical form under congruence. *Linear Algebra and its Applications*, 543(??):17–30, April 15, 2018. CODEN LAA-

PAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517306833>

**Berger:2019:GDS**

Thomas Berger, Hannes Gernandt, Carsten Trunk, Henrik Winkler, and Michal Wojtylak. The gap distance to the set of singular matrix pencils. *Linear Algebra and its Applications*, 564(??):28–57, March 1, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518305433>

**Baseilhac:2017:CTP**

P. Baseilhac, A. M. Gainutdinov, and T. T. Vu. Cyclic tridiagonal pairs, higher order Onsager algebras and orthogonal polynomials. *Linear Algebra and its Applications*, 522(??):71–110, June 1, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002437951730085X>

**Bodmann:2016:AOB**

Bernhard G. Bodmann and John Haas. Achieving the orthoplex bound and constructing weighted complex projective 2-designs with Singer sets. *Lin-*



*ear Algebra and its Applications*, 511(??):54–71, December 15, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516303949> ■

*gebra and its Applications*, 466(??):83–101, February 1, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379514006508> ■

**Butler:2016:CFG**

[BH16b]

Steve Butler and Kristin Heyse. A cospectral family of graphs for the normalized Laplacian found by toggling. *Linear Algebra and its Applications*, 507(??):499–512, October 15, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516302506> ■

**Bolten:2016:SMA**

[BHK16]

Matthias Bolten, Thomas K. Huckle, and Christos D. Kravvaritis. Sparse matrix approximations for multi-grid methods. *Linear Algebra and its Applications*, 502(??):58–76, August 1, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515006710> ■

**Batzies:2015:GMG**

[BHML15]

E. Batzies, K. Hüper, L. Machado, and F. Silva Leite. Geometric mean and geodesic regression on Grassmannians. *Linear Al-*

[BHP17]

Snehasish Bose, Sk Monowar Hossein, and Kallol Paul. Solution of a class of nonlinear matrix equations. *Linear Algebra and its Applications*, 530(??):109–126, October 1, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002437951730294X> ■

**Bose:2017:SCN**

**Bovdi:2018:SSP**

Victor A. Bovdi, Roger A. Horn, Mohamed A. Salim, and Vladimir V. Sergeichuk. Symplectic spaces and pairs of symmetric and nonsingular skew-symmetric matrices under congruence. *Linear Algebra and its Applications*, 537(??):84–99, January 15, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517305608> ■

**Bier:2015:LCS**

Agnieszka Bier. On lattices of closed subgroups in



the group of infinite triangular matrices over a field. *Linear Algebra and its Applications*, 485(??):132–152, November 15, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515004462>■

**Bik:2019:NCL**

[Bik19]

Arthur Bik. Noetherianity up to conjugation of locally diagonal inverse limits. *Linear Algebra and its Applications*, 582(??):237–290, December 1, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379519303337>■

**Bilokopytov:2019:PMA**

[Bil19]

Eugene Bilokopytov. Principal minor assignment, isometries of Hilbert spaces, volumes of parallelepipeds and rescaling of sesquiholomorphic functions. *Linear Algebra and its Applications*, 580(??):37–61, November 1, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379519302629>■

**Botelho:2015:AIP**

[BJ15]

Fernanda Botelho and James Jamison. Algebraic and in-

variance properties of the group of isometries. *Linear Algebra and its Applications*, 471(??):531–543, April 15, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379514008210>■

**Baeth:2016:FBT**

Nicholas R. Baeth and Joel Jeffries. Factorizations of block triangular matrices. *Linear Algebra and its Applications*, 511(??):403–420, December 15, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516304116>■

**Barany:2015:HTT**

Imre Bárány and Jesús Jerónimo-Castro. Helly type theorems for the sum of vectors in a normed plane. *Linear Algebra and its Applications*, 469(??):39–50, March 15, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379514007538>■

**Bapat:2017:OIC**

Ravindra B. Bapat, Suren-  
der Kumar Jain, K. Man-  
junatha Prasad Karantha,  
and M. David Raj. Outer

[BJKR17]



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**Bhatia:2019:IWM**

[BJL19]

Rajendra Bhatia, Tanvi Jain, and Yongdo Lim. Inequalities for the Wasserstein mean of positive definite matrices. *Linear Algebra and its Applications*, 576(??):108–123, September 1, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518301277> ■

**Bu:2017:BTE**

[BJLD17]

Changjiang Bu, Xiuquan Jin, Haifeng Li, and Chunli Deng. Brauer-type eigenvalue inclusion sets and the spectral radius of tensors. *Linear Algebra and its Applications*, 512(??):234–248, January 1, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002437951630458X> ■

**Berg:2018:ETP**

[BJS18]

Sören Berg, Katharina

Jochemko, and Laura Silverstein. Ehrhart tensor polynomials. *Linear Algebra and its Applications*, 539(??):72–93, February 15, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517306109> ■

**Bahmani:2015:MAE**

Asghar Bahmani and Dariush Kiani. On the multiplicity of the adjacency eigenvalues of graphs. *Linear Algebra and its Applications*, 477(??):1–20, July 15, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515001688> ■

**Bahmani:2016:GRT**

Asghar Bahmani and Dariush Kiani. Graph reduction techniques and the multiplicity of the Laplacian eigenvalues. *Linear Algebra and its Applications*, 503(??):215–232, August 15, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516300933> ■

**Bang:2017:DRG**

Sejeong Bang and Jack Koolen. Distance-regular graphs of diameter 3 having eigenvalue  $-1$ . *Lin-*



- ear Algebra and its Applications*, 531(??):38–53, October 15, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517303385>. **Bapat:2019:CPE**
- [BK17b] Gaurav Bhatnagar and Christian Krattenthaler. Spiral determinants. *Linear Algebra and its Applications*, 529(??):374–390, September 15, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517302719>. **Bhatnagar:2017:SD** [BK19]
- [BK17c] Jane Breen and Steve Kirkland. Minimising the largest mean first passage time of a Markov chain: the influence of directed graphs. *Linear Algebra and its Applications*, 520(??):306–334, May 1, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517300630>. **Breen:2017:MLM** [BKLP16]
- [BK18] Ravindra B. Bapat and Masoud Karimi. Integral complete multipartite graphs. *Linear Algebra and its Applications*, 549(??):1–11, July 15, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518301368>. **Bapat:2018:ICM**
- Ravindra B. Bapat and Hiroshi Kurata. On Cartesian product of Euclidean distance matrices. *Linear Algebra and its Applications*, 562(??):135–153, February 1, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518304828>. **Bazn:2016:SMB**
- Fermín S. V. Bazán, Andreas Kleefeld, Koung Hee Leem, and George Pelekanos. Sampling method based projection approach for the reconstruction of 3D acoustically penetrable scatterers. *Linear Algebra and its Applications*, 495(??):289–323, April 15, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515007570>. **Bazn:2016:SMB**
- R. B. Bapat, D. Kalita, M. Nath, and D. Sarma. Convex and quasiconvex functions on trees and their



applications. *Linear Algebra and its Applications*, 533(??):210–234, November 15, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517304226>

**Bapat:2018:OIJ**

[BKNS18]

Ravindra B. Bapat, Manjunatha Prasad Karantha, Nupur Nandini, and Divya P. Shenoy. Outer inverses and Jacobi type identities. *Linear Algebra and its Applications*, 536(??):274–294, January 1, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517305591>

**Burdak:2017:CI**

[BKPS17]

Zbigniew Burdak, Marek Kosiek, Patryk Pagacz, and Marek Słociński. On the commuting isometries. *Linear Algebra and its Applications*, 516(??):167–185, March 1, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516305638>

**Bahturin:2018:CIG**

[BKRE18]

Yuri Bahturin, Mikhail Kochetov, and Adrián Rodrigo-Escudero. Classification

of involutions on graded-division simple real algebras. *Linear Algebra and its Applications*, 546(??):1–36, June 1, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518300557>

**Burdak:2015:CPC**

Zbigniew Burdak, Marek Kosiek, and Marek Słociński. Compatible pairs of commuting isometries. *Linear Algebra and its Applications*, 479(??):216–259, August 15, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515002384> See corrigendum [BKSP23].

**Burdak:2023:CCP**

Zbigniew Burdak, Marek Kosiek, Marek Słociński, and Patryk Pagacz. Corrigendum to “Compatible pairs of commuting isometries” [Linear Algebra Appl. **479** (2015) 216–259]. *Linear Algebra and its Applications*, 675(??):106–117, October 15, 2023. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379523002367> See [BKS15].



- [BL15] **Bardsley:2015:DBA**  
 Johnathan M. Bardsley and Aaron Luttmann. Dealing with boundary artifacts in MCMC-based deconvolution. *Linear Algebra and its Applications*, 473(??):339–358, May 15, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379514006089> **[BL18c]**
- [BL16] **Bremigan:2016:MOR**  
 Ralph Bremigan and John Lorch. Mutually orthogonal rectangular gerechte designs. *Linear Algebra and its Applications*, 497(??):44–61, May 15, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516001191> **[BL18a]**
- [BL18a] **Bai:2018:BSR**  
 Shuliang Bai and Linyuan Lu. A bound on the spectral radius of hypergraphs with  $e$  edges. *Linear Algebra and its Applications*, 549(??):203–218, July 15, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002437951830140X> **[BLdS16]**
- [BL18b] **Bai:2018:SRT**  
 Shuliang Bai and Linyuan Lu. Spectral radius of 0,1-tensor with prescribed number of ones. *Linear Algebra and its Applications*, 558(??):205–235, December 1, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518304026> **[Bourhim:2018:MLS]**
- Bourhim:2018:MLS**  
 Abdellatif Bourhim and Ji Eun Lee. Multiplicatively local spectrum-preserving maps. *Linear Algebra and its Applications*, 549(??):291–308, July 15, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518301538> **[Bourin:2019:RDT]**
- Bourin:2019:RDT**  
 Jean-Christophe Bourin and Eun-Young Lee. On the Russo–Dye Theorem for positive linear maps. *Linear Algebra and its Applications*, 571(??):92–102, June 15, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379519300795> **[Barone:2016:EJF]**
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 M. Barone, J. B. Lima, and R. M. Campello de Souza. The eigenstructure and Jordan form of the Fourier



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[Bru15]

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[Bru16a]

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[CCGO17]

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Jonathan Caalim, Claris- [CCW18]  
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Julianne Chung, Matthias  
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Jameson Cahill, Xuemei  
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**Chen:2015:SFA**

[CLHL15]

Jianzhang Chen, Jianping Li, Yuanyuan Huang, and Jie Lin. Some families of asymmetric quantum codes and quantum convolutional codes from constacyclic codes. *Linear Algebra and its Applications*, 475(??):186–199, June 15, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515001317> ■

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Xiaolin Chen, Xueliang Li, and Huishu Lian. Lower bounds of the skew spectral radii and skew energy of oriented graphs. *Linear Algebra and its Applications*, 479(??):91–105, August 15, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515002165> ■

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Eugene Curtin, Junu Lee, Andrew Lu, and Sophia Sun. A modified Grassmann algebra approach to theorems on permanents and determinants. *Linear Algebra and its Applications*, 581(??): 20–35, November 15, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379519302836> ■

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Cairong Chen, Ren-Cang Li, and Changfeng Ma. Highly accurate doubling algorithm for quadratic matrix equation from quasi-birth-and-death process. *Linear Algebra and its Applications*, 583(??):1–45, December 15, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379519303581> ■

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Yuanyuan Chen, Dan Li, and Jixiang Meng. On the second largest  $A_\alpha$ -eigenvalues of graphs. *Linear Algebra and its Applications*, 580(??):343–358, November 1, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379519303581> ■



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Lu-Bin Cui, Wen Li, and Michael K. Ng. Primitive tensors and directed hypergraphs. *Linear Algebra and its Applications*, 471(??):96–108, April 15, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515000245>

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[CLOK13]

J. M. Casas, M. Ladra, B. A. Omirov, and I. A. Karimjanov. Classification of solvable Leibniz algebras with naturally graded filiform nilradical. *Linear Algebra and its Applications*, 438(7):2973–3000, April 1, 2013. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379512008300> See corrigendum [LMO16].

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Jianlian Cui, Chi-Kwong Li, and Yiu-Tung Poon. Preservers of unitary similarity functions on Lie products of matrices. *Linear Algebra and its Applications*, 498(??):160–180, June 1, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516001427>

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Maolin Che, Guoyin Li, Liquan Qi, and Yimin Wei. Pseudo-spectra theory of tensors and tensor polynomial eigenvalue problems. *Linear Algebra and its Applications*, 533(??):536–572, November 15, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517304469>

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Émilie Charlier, Julien Leroy, and Michel Rigo. Asymptotic properties of free monoid morphisms. *Linear Algebra and its Applications*, 500(??):119–148, July 1, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516001427>

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Gina Chen, Vivian Liu, Ellen Robinson, Lucas J. Rusnak, and Kyle Wang. A characterization of oriented hypergraphic Laplacian and adjacency matrix coefficients. *Linear Algebra and its Applications*, 556(??):323–341, November 1, 2018. CODEN LAAPAW. ISSN



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[CLW15]

Xi Chen, Huyile Liang, and Yi Wang. Total positivity of recursive matrices. *Linear Algebra and its Applications*, 471(??):383–393, April 15, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515000385>■

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Xiaolin Chen, Xueliang Li, and Yingying Zhang. 3-regular mixed graphs with optimum Hermitian energy. *Linear Algebra and its Applications*, 496(??):475–486, May 1, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516001130>■

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Xiangzhao Cui, Chun Li, Jine Zhao, Li Zeng, Defei Zhang, and Jianxin Pan. Covariance structure regularization via Frobenius-norm discrepancy. *Linear Algebra and its Applications*, 510(??):124–145, December 1, 2016. CODEN LAAPAW. ISSN

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Cristian Conde and Mohammad Sal Moslehian. Norm inequalities related to  $p$ -Schatten class. *Linear Algebra and its Applications*, 498(??):441–449, June 1, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515007053>■

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Fadil Chabbabi and Mostafa Mbekhta. New formulas for the spectral radius via  $\lambda$ -Aluthge transform. *Linear Algebra and its Applications*, 515(??):246–254, February 15, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516305481>■

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Francis N. Castro and Luis A. Medina. Hadamard matrices and the spectrum of quadratic symmetric polynomials over finite fields. *Linear Algebra and its Applications*, 549(??):153–175, July 15, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856



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- [CME18] **Cordova-Martinez:2018:GSA** Alejandra S. Córdova-Martínez and Alberto Elduque. Gradients on semisimple algebras. *Linear Algebra and its Applications*, 559(??):145–171, December 15, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518304294>.
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[DdSJdFDV15] Kinkar Ch. Das, Celso M. da Silva Junior, Maria Aguiéras A. de Freitas, and Renata R. Del-Vecchio. Bounds on the entries of the principal eigenvector of the distance signless Laplacian matrix. *Linear Algebra and its Applications*, 483(??):200–220, October 15, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515003560> [De 16b]

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C. Dalfo and M. A. Fiol. Cospectral digraphs from locally line digraphs. *Linear Algebra and its Applications*, 500(??):52–62, July 1, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516001737>
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Carlos M. da Fonseca, Vyacheslav Futorny, Tetiana Rybalkina, and Vladimir V. Sergeichuk. Topological classification of systems of



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**Dmytryshyn:2015:CCC**

[DFK<sup>+</sup>15]

Andrii Dmytryshyn, Vyacheslav Futorny, Bo Kågström, Lena Klimenko, and Vladimir V. Sergeichuk. Change of the congruence canonical form of 2-by-2 and 3-by-3 matrices under perturbations and bundles of matrices under congruence. *Linear Algebra and its Applications*, 469(??):305–334, March 15, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379514007289>■ [dFNP16]

**Dmytryshyn:2017:GRS**

[DFKS17]

Andrii Dmytryshyn, Vyacheslav Futorny, Tetiana Klymchuk, and Vladimir V. Sergeichuk. Generalization of Roth’s solvability criteria to systems of matrix equations. *Linear Algebra and its Applications*, 527(??):294–302, August 15, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517302367>■ [dFRS16]

[/www.sciencedirect.com/science/article/pii/S0024379517302367](http://www.sciencedirect.com/science/article/pii/S0024379517302367)■

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Carlos M. da Fonseca, Tetiana Rybalkina, and Vladimir V. Sergeichuk. Topological classification of sesquilinear forms: Reduction to the nonsingular case. *Linear Algebra and its Applications*, 504(??):581–589, September 1, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516000902>■



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[DG18]

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**DeCastro-Garcia:2016:CNR**

[DGCC16]

Noemí DeCastro-García, Miguel V. Carriegos, and Ángel Luis Muñoz Castañeda. A characterization of von Neumann rings in terms of linear systems. *Linear Algebra and its Applications*, 494(??):236–244, April 1, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516000227>■

**DeCastro-Garcia:2018:CLS**

[DGGP18]

Noemí DeCastro-García and M. I. García-Planas. Concatenated linear systems over rings and their application to construction of concatenated families of convolutional codes. *Linear Algebra and its Applications*, [DGP<sup>+</sup>15]

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- [EKS14] B. Eastman, I.-J. Kim, B. L. Shader, and K. N. Vander Meulen. Companion matrix patterns. *Linear Algebra and its Applications*, 463(??):255–272, December 15, 2014. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379514000623> **Eastman:2014:CMP**



science/article/pii/S0024379514005953 /www.sciencedirect.com/  
See corrigendum [EKSV18]. science/article/pii/S0024379514006028

**Eastman:2018:CSC**

[EKSV18]

B. Eastman, I.-J. Kim, B. L. Shader, and K. N. Van-der Meulen. Corrigendum to “Companion matrix pat-terns” [Linear Algebra Appl. **463** (2014) 255–272]. *Linear Algebra and its Ap-plications*, 538(??):225–227, February 1, 2018. CO-DEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517305967>. See [EKSV14].

[ELN18]

**Echeverria:2018:BDD**

Carlos Echeverría, Jörg Liesen, and Reinhard Nabben. Block diagonal dominance of matrices revisited: Bounds for the norms of inverses and eigenvalue inclusion sets. *Linear Algebra and its Ap-plications*, 553(??):365–383, September 15, 2018. CO-DEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518302192>.

**Elduque:2016:NEA**

[EL16]

Alberto Elduque and Alicia Labra. On nilpotent evolution algebras. *Lin-ear Algebra and its Ap-plications*, 505(??):11–31, September 15, 2016. CO-DEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516301240>.

[EM15]

**Eshkaftaki:2015:SPO**

A. Bayati Eshkaftaki and S. M. Manjegani. Some properties of operators pre-serving convex majorization on discrete  $\ell^p$  spaces. *Lin-ear Algebra and its Ap-plications*, 484(??):130–140, November 1, 2015. CO-DEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515003705>.

**Elden:2015:CFD**

[Eld15]

Lars Eldén. Computing Frechet derivatives in par-tial least squares regres-sion. *Linear Algebra and its Applications*, 473(??):316–338, May 15, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515003705>.

[EM16]

**Ellia:2016:SMC**

Ph. Ellia and P. Menegatti. Spaces of matrices of con-stant rank and uniform vec-tor bundles. *Linear Al-gebra and its Applications*, 507(??):474–485, October 15, 2016. CODEN LAA-PAW. ISSN 0024-3795



(print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516302361>

**Erway:2017:SLS**

[EM17]

Jennifer B. Erway and Roummel F. Marcia. On solving large-scale limited-memory quasi-Newton equations. *Linear Algebra and its Applications*, 515(??):196–225, February 15, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516305195>

**Emami:2018:RES**

[Ema18]

Hadi Emami. Ridge estimation in semiparametric linear measurement error models. *Linear Algebra and its Applications*, 552(??):127–146, September 1, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518302106>

**Essaleh:2018:LMC**

[EP18a]

Ahlem Ben Ali Essaleh and Antonio M. Peralta. Linear maps on  $C^*$ -algebras which are derivations or triple derivations at a point. *Linear Algebra and its Applications*, 538(??):1–21, February 1, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517305785>

**Essaleh:2018:PAT**

Ahlem Ben Ali Essaleh and Antonio M. Peralta. Preservers of  $\lambda$ -Aluthge transforms. *Linear Algebra and its Applications*, 554(??):86–119, October 1, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002437951830260X>

**Eremita:2016:FIU**

Daniel Eremita. Functional identities in upper triangular matrix rings. *Linear Algebra and its Applications*, 493(??):580–605, March 15, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515007594>

**Ernst:2018:SSM**

Thomas Ernst. On several  $q$ -special matrices, including the  $q$ -Bernoulli and  $q$ -Euler matrices. *Linear Algebra and its Applications*, 542(??):422–440, ??? 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517303919>



**Ellard:2016:CSC**

[ES16]

Richard Ellard and Helena Smigoc. Connecting sufficient conditions for the Symmetric Nonnegative Inverse Eigenvalue Problem. *Linear Algebra and its Applications*, 498(??):521–552, June 1, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516000215>■

**Estrada:2016:WLG**

[Est16]

Ernesto Estrada. When local and global clustering of networks diverge. *Linear Algebra and its Applications*, 488(??):249–263, January 1, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515005753>■

**Elsasser:2016:IGH**

[ET16]

Robert Elsässer and Horst Trinker. On the isomorphism of graphs having some eigenvalues of moderate multiplicity. *Linear Algebra and its Applications*, 488(??):377–395, January 1, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515005388>■

**Et-Taoui:2018:IFE**

[ET18]

Boumediene Et-Taoui. Infinite family of equi-isoclinic planes in Euclidean odd dimensional spaces and of complex symmetric conference matrices of odd orders. *Linear Algebra and its Applications*, 556(??):373–380, November 1, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002437951830332X>■

**Et-Taoui:2018:SCG**

Boumediene Et-Taoui and Augustin Fruchard. On switching classes of graphs. *Linear Algebra and its Applications*, 549(??):246–255, July 15, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518301472>■

**Ellers:2015:HTC**

[EV15]

Erich W. Ellers and Oliver Villa. Half turns in characteristic 2. *Linear Algebra and its Applications*, 483(??):221–226, October 15, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515003547>■



- [Eve18] **Evert:2018:MCS**  
Eric Evert. Matrix convex sets without absolute extreme points. *Linear Algebra and its Applications*, 537(??):287–301, January 15, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517305670> [Far19]
- [EW19] **Evans:2019:PTP**  
Ron Evans and Nolan Walach. Pfaffians of Toeplitz payoff matrices. *Linear Algebra and its Applications*, 577(??):114–120, September 15, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379519301843> [Fas19]
- [Fag19] **Fagundes:2019:IMP**  
Pedro S. Fagundes. The images of multilinear polynomials on strictly upper triangular matrices. *Linear Algebra and its Applications*, 563(??):287–301, February 15, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518305378>
- [Far16] **Farashahi:2016:WPT**  
Arash Ghaani Farashahi. Wave packet transforms over finite cyclic groups. *Linear Algebra and its Applications*, 489(??):75–92, January 15, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515005960>
- Farid:2019:TCM**  
Farid O. Farid. On three classes of matrices with variants of the diagonal dominance property. *Linear Algebra and its Applications*, 579(??):382–418, October 15, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <https://www.sciencedirect.com/science/article/pii/S0024379519302502>
- Fasi:2019:OPS**  
Massimiliano Fasi. Optimality of the Paterson–Stockmeyer method for evaluating matrix polynomials and rational matrix functions. *Linear Algebra and its Applications*, 574(??):182–200, August 1, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379519301454>
- Faybusovich:2018:PDP**  
Leonid Faybusovich. Primal-dual potential reduction algorithm for symmetric pro-



gramming problems with nonlinear objective functions. *Linear Algebra and its Applications*, 536(??): 228–249, January 1, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517305414> [FCLP18]

**Fan:2019:ENS**

[FBH19]

Yi-Zheng Fan, Yan-Hong Bao, and Tao Huang. Eigenvariety of nonnegative symmetric weakly irreducible tensors associated with spectral radius and its application to hypergraphs. *Linear Algebra and its Applications*, 564(??):72–94, March 1, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518305500> [FdC15]

**Feng:2016:SRE**

[FCL<sup>+</sup>16]

Lihua Feng, Jianxiang Cao, Weijun Liu, Shifeng Ding, and Henry Liu. The spectral radius of edge chromatic critical graphs. *Linear Algebra and its Applications*, 492(??):78–88, March 1, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515006825> [FdC18]

**Fabila-Carrasco:2018:SGD**

John Stewart Fabila-Carrasco, Fernando Lledó, and Olaf Post. Spectral gaps and discrete magnetic Laplacians. *Linear Algebra and its Applications*, 547(??): 183–216, June 15, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518300673>

**Fernandes:2015:CCN**

Rosário Fernandes and Henrique F. da Cruz. A canonical construction for non-negative integral matrices with given line sums. *Linear Algebra and its Applications*, 484(??):304–321, November 1, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515003961>

**Fernandes:2018:NPV**

Rosário Fernandes and Henrique F. da Cruz. The number of  $P$ -vertices in a matrix with maximum nullity. *Linear Algebra and its Applications*, 547(??): 168–182, June 15, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518300855>



- [FdFdSDV18] **Fernandes:2018:MDL** Rosário Fernandes, Maria Aguiéiras A. de Freitas, Celso M. da Silva, and Renata R. Del-Vecchio. Multiplicities of distance Laplacian eigenvalues and forbidden subgraphs. *Linear Algebra and its Applications*, 541(??):81–93, March 15, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517306596> [FG17]
- [FG17] **Francisco:2017:FPM** Juliano B. Francisco and Douglas S. Gonçalves. A fixed-point method for approximate projection onto the positive semidefinite cone. *Linear Algebra and its Applications*, 523(??):59–78, June 15, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517300903>
- [Fer15] **Fernandes:2015:CDV** Rosário Fernandes. Computing the degree of a vertex in the skeleton of acyclic Birkhoff polytopes. *Linear Algebra and its Applications*, 475(??):119–133, June 15, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515000877> [FGG<sup>+</sup>18]
- [FGG<sup>+</sup>18] **Fang:2018:MRS** Wei Fang, Wei Gao, Yubin Gao, Fei Gong, Guangming Jing, Zhongshan Li, Yanling Shao, and Lihua Zhang. Minimum ranks of sign patterns and zero-nonzero patterns and point-hyperplane configurations. *Linear Algebra and its Applications*, 558(??):44–62, December 1, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518304002>
- [FG16] **Fongi:2016:PIP** Guillermina Fongi and M. Celeste Gonzalez. Partial isometries and pseudoinverses in semi-Hilbertian spaces. *Linear Algebra and its Applications*, 495(??):324–343, April 15, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002437951600029X> [FGH<sup>+</sup>15]
- [FGH<sup>+</sup>15] **Fiedler:2015:RDA** Miroslav Fiedler, Wei Gao, Frank J. Hall, Guangming Jing, Zhongshan Li, and Mikhail Stroeve. Ranks of dense alternating sign matrices and their sign patterns. *Linear Algebra and its Applications*, 471(??):109–121, April 15, 2015.



CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515000257>

**Fang:2016:GCI**

[FGS<sup>+</sup>16]

Wei Fang, Yubin Gao, Yanling Shao, Wei Gao, Guangming Jing, and Zhongshan Li. The generalized competition indices of primitive minimally strong digraphs. *Linear Algebra and its Applications*, 493(??): 206–226, March 15, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515007107>

**Futorny:2019:WT**

[FGS19]

Vyacheslav Futorny, Joshua A. Grochow, and Vladimir V. Sergeichuk. Wildness for tensors. *Linear Algebra and its Applications*, 566(??):212–244, April 1, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518305937>

**Futorny:2019:CKF**

[FH19]

Vyacheslav Futorny and Jonas T. Hartwig. De Concini–Kac filtration and Gelfand–Tsetlin generators for quantum  $\mathfrak{gl}_N$ . *Linear Algebra and its Applications*, 568(??):173–188,

May 1, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518303847>

**Francetic:2015:MNR**

Nevena Francetić, Sarada Herke, and Daniel Horsley. More nonexistence results for symmetric pair coverings. *Linear Algebra and its Applications*, 487(??): 43–73, December 15, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515005194>

**Furer:2019:ELG**

Martin Fürer, Carlos Hoppen, David P. Jacobs, and Vilmar Trevisan. Eigenvalue location in graphs of small clique-width. *Linear Algebra and its Applications*, 566(??):56–85, January 1, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518304506>

**Foata:2017:EPM**

Dominique Foata, Guo-Niu Han, and Volker Strehl. The Entringer–Poupard matrix sequence. *Linear Algebra and its Applications*, 512(??):71–96, January 1, 2017. CODEN LAAPAW. ISSN



- 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516304153> ■
- [FHS17b] **Futorny:2017:SCS** Vyacheslav Futorny, Roger A. Horn, and Vladimir V. Sergeichuk. Specht's criterion for systems of linear mappings. *Linear Algebra and its Applications*, 519(??):278–295, April 15, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517300198> ■
- [FI16] **Forrester:2016:RES** Peter J. Forrester and Jesper R. Ipsen. Real eigenvalue statistics for products of asymmetric real Gaussian matrices. *Linear Algebra and its Applications*, 510(??):259–290, December 1, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516303524> ■
- [FI19a] **Fasi:2019:CPS** Massimiliano Fasi and Bruno Iannazzo. Computing primary solutions of equations involving primary matrix functions. *Linear Algebra and its Applications*, 560(??):17–42, January 1, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518304439> ■
- [FI19b] **Fonseca:2019:DPV** Claudia Cavalcante Fonseca and Kostiantyn Iusenko. On dimension of poset variety. *Linear Algebra and its Applications*, 568(??):155–164, May 1, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518303033> ■
- [Fie15a] **Fiedler:2015:MEG** Miroslav Fiedler. Majorization in Euclidean geometry and beyond. *Linear Algebra and its Applications*, 466(??):233–240, February 1, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379514006843> ■
- [Fie15b] **Fiedler:2015:ONA** Miroslav Fiedler. Old and new about positive definite matrices. *Linear Algebra and its Applications*, 484(??):496–503, November 1, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515004279> ■



**Fikioris:2018:SPK**

[Fik18]

George Fikioris. Spectral properties of Kac–Murdock–Szegő matrices with a complex parameter. *Linear Algebra and its Applications*, 553(??):182–210, September 15, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518302350>■

**Filipovski:2018:NEA**

[Fil18]

Slobodan Filipovski. On the non-existence of antipodal cages of even girth. *Linear Algebra and its Applications*, 546(??):261–273, June 1, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518300715>■

[FJ17]

**Fiol:2016:QPG**

[Fio16]

M. A. Fiol. Quotient-polynomial graphs. *Linear Algebra and its Applications*, 488(??):363–376, January 1, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515005911>■

[FJ19]

**Fischer:2017:AAM**

[Fis17]

Thomas M. Fischer. On the algorithm by Al-Mohy

and Higham for computing the action of the matrix exponential: a posteriori roundoff error estimation. *Linear Algebra and its Applications*, 531(??):141–168, October 15, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517303427>■ See [AMH11].

**Farnik:2017:QPM**

M. Farnik and Z. Jelonek. On quadratic polynomial mappings of the plane. *Linear Algebra and its Applications*, 529(??):441–456, September 15, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517303087>■

**Filipovski:2019:NEF**

Slobodan Filipovski and Robert Jajcay. On the non-existence of families of  $(d, k, \delta)$ -digraphs containing only selfrepeat vertices. *Linear Algebra and its Applications*, 563(??):302–312, February 15, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518305305>■



**Fickus:2018:ETF**

[FJKM18]

Matthew Fickus, John Jasper, Emily J. King, and Dustin G. Mixon. Equiangular tight frames that contain regular simplices. *Linear Algebra and its Applications*, 555(??):98–138, October 15, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002437951830288X>

**Farnik:2018:QPM**

[FJM18]

M. Farnik, Z. Jelonek, and P. Migus. On quadratic polynomial mappings from the plane into the  $n$  dimensional space. *Linear Algebra and its Applications*, 554(??):249–274, October 1, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518302581>

**Fickus:2015:GTC**

[FJMP15]

Matthew Fickus, John Jasper, Dustin G. Mixon, and Jesse Peterson. Group-theoretic constructions of erasure-robust frames. *Linear Algebra and its Applications*, 479(??):131–154, August 15, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515002190>

**Foulis:2015:PES**

David J. Foulis, Anna Jencová, and Sylvia Pulmanová. A projection and an effect in a synaptic algebra. *Linear Algebra and its Applications*, 485(??):417–441, November 15, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002437951500453X>

**Foulis:2015:TPS**

David J. Foulis, Anna Jencová, and Sylvia Pulmanová. Two projections in a synaptic algebra. *Linear Algebra and its Applications*, 478(??):162–187, August 1, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515001858>

**Fallat:2017:TPS**

Shaun Fallat, Charles R. Johnson, and Alan D. Sokal. Total positivity of sums, Hadamard products and Hadamard powers: Results and counterexamples. *Linear Algebra and its Applications*, 520(??):242–259, May 1, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/>



science/article/pii/S0024379517300411. See corrigendum [FJS21].

**Fallat:2021:CTP**

[FJS21]

Shaun Fallat, Charles R. Johnson, and Alan D. Sokal. Corrigendum to “Total positivity of sums, Hadamard products and Hadamard powers: Results and counterexamples” [Linear Algebra Appl. **520** (2017) 242–259]. *Linear Algebra and its Applications*, 613(??): 393–396, March 15, 2021. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379520305863>. See [FJS17].

**Fernandes:2017:CEG**

[FJT17]

Rafael Fernandes, Joaquim Judice, and Vilmar Trevisan. Complementary eigenvalues of graphs. *Linear Algebra and its Applications*, 527(??):216–231, August 15, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517302094>.

**Forster:2016:PFT**

[FK16]

K.-H. Förster and P. Kallus. Perron–Frobenius theorems for the numerical range of semi-monic matrix polynomials. *Linear Algebra and its Applications*, 498(??):471–

489, June 1, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515007533>.

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Bernd Fritzsche, Bernd Kirstein, and Conrad Mädler. On a simultaneous approach to the even and odd trun-



cated matricial Stieltjes moment problem I: an  $\alpha$ -Schur-Stieltjes-type algorithm for sequences of complex matrices. *Linear Algebra and its Applications*, 521(??): 142–216, May 15, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517300575> [FKPS18]

**Fritzsche:2017:SAEb**

[FKM17b]

Bernd Fritzsche, Bernd Kirstein, and Conrad Mädler. On a simultaneous approach to the even and odd truncated matricial Stieltjes moment problem II: an  $\alpha$ -Schur-Stieltjes-type algorithm for sequences of holomorphic matrix-valued functions. *Linear Algebra and its Applications*, 520(??):335–398, May 1, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517300599> [FKRS17]

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[FKMS18]

Bernd Fritzsche, Bernd Kirstein, Conrad Mädler, and Torsten Schröder. On the truncated matricial Stieltjes moment problem  $M[[\alpha, \infty); (s_j)_{j=0}^m, \leq]$ . *Linear Algebra and its Applications*, 544(??):30–114, May 1, 2018. CODEN LAAPAW. ISSN 0024-3795 [FKS16]

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**Futorny:2018:WPC**

Vyacheslav Futorny, Tetiana Klymchuk, Anatolii P. Petravchuk, and Vladimir V. Sergeichuk. Wildness of the problems of classifying two-dimensional spaces of commuting linear operators and certain Lie algebras. *Linear Algebra and its Applications*, 536(??): 201–209, January 1, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517305438>

**Fritzsche:2017:SPE**

Bernd Fritzsche, Bernd Kirstein, Inna Roitberg, and Alexander Sakhnovich. Stability of the procedure of explicit recovery of skew-selfadjoint Dirac systems from rational Weyl matrix functions. *Linear Algebra and its Applications*, 533(??):428–450, November 15, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517304640>

**Futorny:2016:RSC**

Vyacheslav Futorny, Tetiana



Klymchuk, and Vladimir V. Sergeichuk. Roth's solvability criteria for the matrix equations  $AX - \bar{X}B = C$  and  $X - A\bar{X}B = C$  over the skew field of quaternions with an involutive automorphism  $q \mapsto \hat{q}$ . *Linear Algebra and its Applications*, 510(??):246–258, December 1, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516303597>■

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[FL15]

Peter G. M. Forbes and Stefan Lauritzen. Linear estimating equations for exponential families with application to Gaussian linear concentration models. *Linear Algebra and its Applications*, 473(??):261–283, May 15, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379514005485>■

[FLVV18]

**Friedland:2016:EPQ**

[FL16]

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[FM16]

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Axel Flinth. A geometrical stability condition for compressed sensing. *Linear Algebra and its Applications*, 504(??):406–432, September 1, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516301161>■

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D. Farenick, B. Lemmens, M. Van Barel, and R. Van debril. Preface to the proceedings of the 20th ILAS meeting, Leuven, Belgium, 2016. *Linear Algebra and its Applications*, 542(??):1–3, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517305396>■

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science/article/pii/S002437951500511X. **Fenzi:2017:RSO**
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H. Faßbender and M. Rozložník. On the conditioning of factors in the  $SR$  decomposition. *Linear Algebra and its Applications*, 505(??):224–244, September 15, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516301495> ■

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Heike Faßbender and Philip Saltenberger. On vector spaces of linearizations for matrix polynomials in orthogonal bases. *Linear Algebra and its Applications*, 525(??):59–83, July 15, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517301799> ■

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Hartmut Führ and Ziemowit Rzeszutnik. A note on factoring unitary matrices. *Linear Algebra and its Applications*, 547(??):32–44, June 15, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518300843> ■

**Fawzi:2017:LCT**

[FS17b]

Hamza Fawzi and James Saunderson. Lieb’s concavity theorem, matrix geometric means, and semidefinite optimization. *Linear Algebra and its Applications*, 513(??):240–263, January 15, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516304852> ■

**Frederick:2018:SEP**

[Fre18]

Christina Frederick. An  $L^2$ -stability estimate for periodic nonuniform sampling in higher dimensions. *Linear Algebra and its Applications*, 555(??):361–372, October 15, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518302982> ■

**Fassbender:2018:BKA**

[FS18a]

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**Fujii:2018:ROE**

[FS18b]

Jun Ichi Fujii and Yuki Seo. The relative operator entropy and the Karcher mean. *Linear Algebra and its Applications*, 542(??): 4–34, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516305444>.

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[FS19a]

Simon Foucart and Srinivas Subramanian. Iterative hard thresholding for low-rank recovery from rank-one projections. *Linear Algebra and its Applications*, 572(??):117–134, July 1, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379519301028>.

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[FS19b]

Masayuki Fujimoto and Yuki Seo. The Schwarz inequality via operator-valued inner product and the geometric operator mean. *Linear Algebra and its Applications*, 561(??):141–160, January 15, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002437951830466X>.

**Francis:2017:EAE**

[FSSW17]

Amanda Francis, Dallas Smith, Derek Sorensen, and Benjamin Webb. Extensions and applications of equitable decompositions for graphs with symmetries. *Linear Algebra and its Applications*, 532(??):432–462, November 1, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517304093>.

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Amanda Francis, Dallas Smith, and Benjamin Webb. General equitable decompositions for graphs with symmetries. *Linear Algebra and its Applications*, 577(??):287–316, September 15, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379519301934>.

**Fasino:2016:GMM**

[FT16]

Dario Fasino and Francesco Tudisco. Generalized modularity matrices. *Linear Algebra and its Applications*, 502(??):327–345, August 1, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515003663>.



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Yi-Zheng Fan, Murad ul Islam Khan, and Ying-Ying Tan. The largest  $H$ -eigenvalue and spectral radius of Laplacian tensor of non-odd-bipartite generalized power hypergraphs. *Linear Algebra and its Applications*, 504(??):487–502, September 1, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516300921>
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Yi-Zheng Fan and Long Wang. Bounds for the positive and negative inertia index of a graph. *Linear Algebra and its Applications*, 522(??):15–27, June 1, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517300812>
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Yi-Zheng Fan, Yi Wang, Yan-Hong Bao, Jiang-Chao Wan, Min Li, and Zhu Zhu. Eigenvectors of Laplacian or signless Laplacian of hypergraphs associated with zero eigenvalue. *Linear Algebra and its Applications*, 579(??):244–261, October 15, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <https://www.sciencedirect.com/science/article/pii/S0024379519302514>
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- [FZL<sup>+</sup>17] **Feng:2017:SCS**  
Lihua Feng, Pengli Zhang, Henry Liu, Weijun Liu, Minmin Liu, and Yuqin Hu. Spectral conditions for some graphical properties. *Linear Algebra and its Applications*, 524(??):182–



198, July 1, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517301581> [Gal19]

**Fan:2016:QLQ**

[FZwCW16]

H.-Y. Fan, L. Zhang, E. K. w. Chu, and Y. Wei.  $Q$ -less  $QR$  decomposition in inner product spaces. *Linear Algebra and its Applications*, 491(??):292–316, February 15, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515005133> [Gao18]

**Gaetz:2016:CGG**

[Gae16]

Christian Gaetz. Critical groups of group representations. *Linear Algebra and its Applications*, 508(??):91–99, November 1, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516302634> [GAP16]

**Galazka:2017:VBG**

[Gal17]

Maciej Galazka. Vector bundles give equations of cactus varieties. *Linear Algebra and its Applications*, 521(??):254–262, May 15, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516300453>

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Francesco Galuppi. The Rough Veronese variety. *Linear Algebra and its Applications*, 583(??):282–299, December 15, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379519303775>

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Wei Gao. Zero-nonzero patterns of order  $n \geq 4$  do not require  $H_n^*$ . *Linear Algebra and its Applications*, 554(??):1–14, October 1, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518302544>

**Ganie:2016:SLE**

Hilal A. Ganie, Ahmad M. Alghamdi, and S. Pirzada. On the sum of the Laplacian eigenvalues of a graph and Brouwer’s conjecture. *Linear Algebra and its Applications*, 501(??):376–389, July 15, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516300453> See corrigendum [GP18].



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Lino G. Garza, Luis E. Garza, Francisco Marcellán, and Natalia C. Pinzón-Cortés. A matrix characterization for the  $D_\nu$ -semiclassical and  $D_\nu$ -coherent orthogonal polynomials. *Linear Algebra and its Applications*, 487(?):242–259, December 15, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515005297> [GH16b]
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Chander K. Gupta and Waldemar Holubowski. Commutator subgroup of Vershik–Kerov group II. *Linear Algebra and its Applications*, 471(?):85–95, April 15, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515000294> [GH17]
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Ana I. Julio and Ricardo L. Soto. Persymmetric and bisymmetric nonnegative inverse eigenvalue problem. *Linear Algebra and its Applications*, 469(??):130–152, March 15, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856



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[KHI16b]

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Steve Kirkland. Sensitivity analysis of perfect state transfer in quantum spin networks. *Linear Algebra and its Applications*, 472(??):1–30, May 1, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515000427>.

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Emre Kisi. Corrigendum to “Tripotency of a linear combination of two involutory matrices and a tripotent matrix that mutually commute” [Linear Algebra Appl. **437** (9) (2012) 2091–2109]. *Linear Algebra and its Applications*, 477(??):211–212, July 15, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856



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[KKLP17]

Sandra Keiper, Gitta Kutyniok, Dae Gwan Lee, and Götz E. Pfander. Compressed sensing for finite-valued signals. *Linear Algebra and its Applications*, 532(??):570–613, November 1, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379517304160>

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[KL15]



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Dariusz Kiani and Mohsen Mollahajaghaei. On the unitary Cayley graphs of matrix algebras. *Linear Algebra and its Applications*, 466(??):421–428, February 1, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379514006934>.

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Lutz Klotz and Conrad Mädler. Some functions preserving positive semidefiniteness of  $2 \times 2$  block matrices. *Linear Algebra and its Applications*, 507(??):68–76, October 15, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002437951630204X>.

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- [KMS16] **Konno:2016:QSW** Norio Konno, Hideo Mitsuhashi, and Iwao Sato. The quaternionic second weighted zeta function of a graph and the Study determinant. *Linear Algebra and its Applications*, 510(?): 92–109, December 1, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516303342>.
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Masato Kobayashi. A directed graph structure of alternating sign matrices. *Linear Algebra and its Applications*, 519(??):164–190, April 15, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516306309> [Koz16]

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Robert Kooij. On generalized windmill graphs. *Linear Algebra and its Applications*, 565(??):25–46, March 15, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518305482>

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Bojan Kuzma, Matjaz Omadic, Klemen Sivic, and Josef Teichmann. Exotic one-parameter semigroups of endomorphisms of a symmetric cone. *Linear Algebra and its Applications*, 477(??):42–75, July 15, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515001500>

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Victor Kozyakin. Hourglass alternative and the finiteness conjecture for the spectral characteristics of sets of non-negative matrices. *Linear Algebra and its Applications*, 489(??):167–185, January 15, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515006126>

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Mahdi Karder and Tatjana Petek. Maps on states preserving generalized entropy of convex combinations. *Linear Algebra and its Applications*, 532(??):86–98, November 1, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002437951730366X>



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- [KRZ<sup>+</sup>18] **Koziol:2018:FCE** Arkadiusz Koziol, Anuradha Roy, Roman Zmysłony, Ricardo Leiva, and Miguel Fonseca. Free-coordinate estimation for doubly multivariate data. *Linear Algebra and its Applications*, 547(??):217–239, June 15, 2018. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379518300867>. [KS17]
- [KS15a] **Karami:2015:PNH** Saeed Karami and Abbas Salemi. Polynomial numerical hulls of the direct sum of a normal matrix and a Jordan block. *Linear Algebra and its Applications*, 465(??):143–160, January 15, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515002967>. [KS19]
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[KSTX15]

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Sho Kubota, Etsuo Segawa, Tetsuji Taniguchi, and Yusuke Yoshie. Periodicity of Grover walks on generalized Bethe trees. *Linear Algebra and its Applications*, 554(??):371–391, October 1, 2018. CODEN LAAPAW. ISSN

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Sho Kubota, Etsuo Segawa, Tetsuji Taniguchi, and Yusuke Yoshie. A quantum walk induced by Hoffman graphs and its periodicity. *Linear Algebra and its Applications*, 579(??):217–236, October 15, 2019. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <https://www.sciencedirect.com/science/article/pii/S0024379519302356>

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In-Jae Kim, Bryan L. Shader, Kevin N. Vander Meulen, and Matthew West. Spectrally arbitrary pattern extensions. *Linear Algebra and its Applications*, 517(??):120–128, March 15, 2017. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516305894>

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[KT17] Ik-Pyo Kim and Michael J. [Kul15]  
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the first or second kind.  
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[KT19]

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[LMP<sup>+</sup>17]

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[LNT16b]

Pan-Shun Lau, Tuen-Wai Ng, and Nam-Kiu Tsing. [Lom17] The star-shapedness of a generalized numerical range. *Linear Algebra and its Applications*, 506(??):308–315, October 1, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379516302191>

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[LNT16c]

E. Ludwig, R. Nabben, [Lop15] and J. M. Tang. Deflation and projection methods applied to symmetric positive semi-definite systems. *Linear Algebra and its Applications*, 489(??):253–273, January 15, 2016. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515005947>

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Chi-Wai Leung, Chi-Keung Ng, and Ngai-Ching Wong. The positive contractive part of a noncommutative  $L^p$ -space is a complete Jordan invariant. *Linear Algebra and its Applications*, 519(??):102–110, April 15, 2017.

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[LPP15] Jin Li, Rajesh Pereira, and Sarah Plosker. Some geometric interpretations of quantum fidelity. *Linear Algebra and its Applications*, 487(??):158–171, December 15, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515005261>



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[LPPZ19]

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Fusheng Lv and Wenchang Sun. Construction of robust frames in erasure recovery. *Linear Algebra and its Applications*, 479(??):155–170, August 15, 2015. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0024379515002554>.



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[LS18b]

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**Loewy:2017:NCS**

[LS17b]

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[Mat15a]

[Mat15b]



- [Mat15c] [/www.sciencedirect.com/science/article/pii/S0024379514006053](http://www.sciencedirect.com/science/article/pii/S0024379514006053) **Mattila:2015:ECM** [MB18]  
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[RB19]

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[RD15]

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