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#11812 [1953]. **#14473** [1557]. **#17627** [1946]. **#8879** [1787].

$(2 + 1)$ [1265, 1286]. (2×2) [1461]. $(\lambda\phi^4 + \sigma\phi^2)_2$ [421]. $(\lambda\phi^4 - \mu\phi)_3$ [181].
 $(\lambda\phi^4 - \sigma\phi^2 - \mu\phi)_3$ [808]. $(\text{Sp}(2N); 2N)$ [1368, 1609]. $*X \otimes *X$ [52]. $-\Delta$ [936].
1 [1198, 956, 811, 184, 209, 939, 1140]. $1/2$ [1279, 1140]. $1/r^2$
[130, 131, 132, 102]. 2 [510]. $2 + 1$ [498]. $2 + \epsilon$ [632, 940]. $\{2^{N/2-S}, 1^{2S}\}$ [1396].
3 [1827, 1785, 1950, 1317, 1731, 660, 1197, 316, 317, 1464, 595]. $3/2$ [1140]. $3j$
[1615]. $3V$ [1085]. 4 [1534]. $405 \times 56 \rightarrow 56, 70$ [476]. $5/2$ [1259]. 6
[750, 1894, 316, 317, 1443, 1390]. 9 [1780, 480]. $*$ [1409, 1869]. $-$ [1098]. 2
[1521]. 3 [1521]. 6 [481]. p [721]. 2 [32, 886]. 4 [883]. 7 [1207]. 8 [628]. p [252].
 xy [541]. α [647]. B [33]. $\beta\epsilon$ [326]. C [496, 490, 1447, 1888, 1874]. C^*
[845, 1005, 353]. C^* [1906]. c^{-1} [1249]. c^{-4} [1431]. C^∞ [1430]. \mathcal{H} [1832]. D
[619, 1833, 1690, 221, 379, 1602]. $D(1, 0)$ [976]. δ [614]. $\delta = 2$ [582, 412]. E
[132]. ϵ [976]. F_2 [669]. $f_{tt} - f_{ss} = \gamma^2 f$ [255, 6]. G [360]. $G_2 \supseteq A_2$ [712]. g_{ij}
[21]. $\text{gl}(n, \mathbf{C})$ [1667]. H [1641, 514, 867, 1201, 1202].

$H = (-1/2)d^2/dx^2 + x^2/2 + \lambda/x^2$ [232]. $h \rightarrow 0$ [691]. I [132]. $\text{IO}(n)$ [140, 1596, 1644]. $\text{IU}(n)$ [140, 1596, 1644]. $iU_t + \Delta_2 U = 0$ [96]. J [1259, 83, 1780, 66, 660, 750, 1197, 1894, 316, 317, 480, 1443, 1464, 595, 1390]. J_1 [1322]. J_2 [1322]. J_3 [1322]. K [1129, 1405, 1676, 1295, 1007, 1069]. $K(z - z_0)$ [1729]. L [204]. $l = 1$ [892]. L^2 [1294]. L_2 [496]. L_p [494, 188]. λ [923, 1833]. $\lambda: \Phi_4^4$: [45]. $\lambda\phi_3^4$ [351, 579]. $\lambda x^2/(1 + gx^2)$ [1455]. $m \geq 0$ [820]. N [150, 890, 917, 1706, 336, 1100, 1386, 1896, 1419, 727, 538, 616, 1704, 1904, 1230, 1341, 599, 802, 803, 1696, 1697, 1768, 1060, 133, 315, 485, 1025, 1329, 1750, 1245, 1710, 1089, 66, 796, 1176, 1223, 528, 1295, 1048, 1047, 1453, 1135]. N/D [306]. n^2 [1660]. $N \rightarrow \infty$ [336]. $\text{O}(2, 1)$ [1628]. $\text{O}(2, 1)$ [434, 863, 435]. $\text{O}(3)$ [1466]. $\text{O}(3, 1)$ [434]. $\text{O}(4, 1)$ [214]. $\text{O}(4, 2)$ [192]. $\text{O}(5) \subseteq \text{O}(3)$ [1411]. $\text{O}(N)$ [1721, 1319, 1926]. $\text{O}(n, 1)$ [140]. O_n^5 [52]. O_h^7 [52]. $\text{OSp}(1/4)$ [1281]. P [279, 1701, 234]. $p = \omega$ [13]. $P_\mu = 0$ [524]. $\partial^2 z / \partial x^1 \partial x^2 = f(z)$ [1504]. $\partial_{tt}\psi = \Delta_2\psi$ [459]. ϕ^3 [1370]. $Pn3n$ [1776, 1649]. pp [1457]. Ψ^{2N} [1543]. $\Psi_{tt} - \Delta_2\Psi = 0$ [399, 458]. $\psi_{tt} - \Delta_3\psi = 0$ [1012, 1332]. R [458, 459, 1012, 1332, 1429, 1428]. r^{-2} [1480]. r^a [431]. $R^{l_{ijk}}$ [21]. S [235, 234, 1579, 1676, 767, 307, 1287, 652, 466, 1393, 1313]. $S(Q, \omega)$ [561]. S^2 [14]. S_n [1002, 1556]. $S \cdot \pi$ [1140]. σ [1926, 1924]. $\text{SL}(2, \mathbf{C})$ [1767]. $\text{SL}(2, \mathbf{C})$ [334]. $\text{sl}(2, R)$ [250]. $\text{SL}(3, \mathbf{R})$ [1779, 1949, 1474]. $\text{SL}(3, R)$ [815, 1204, 64]. $\text{SO}(1, 1)$ [1397]. $\text{SO}(2)$ [1397]. $\text{SO}(2, 1)$ [553, 1397]. $\text{SO}(3)$ [1189, 1840]. $\text{SO}(4)$ [553]. $\text{SO}(4, 1)$ [82]. $\text{SO}(5)$ [524]. $\text{SO}(N)$ [629, 916, 1418, 70, 379, 474, 1236]. $\text{SO}(n - 1, 1)$ [1458, 379]. $\text{Sp}(2M)$ [629]. $\text{Sp}(2n)$ [1721]. $\text{Sp}(8, R)$ [1365]. $s \rightarrow \infty$ [1188]. $\text{SU}(1, 1)$ [305, 198, 644, 1285]. $\text{SU}(2)$ [1322, 14, 305, 1681, 384]. $\text{SU}(2)_\Lambda \mathbf{R}^4$ [1770]. $\text{SU}(2) \otimes \text{SU}(2)$ [613]. $\text{SU}(2) \times \text{SU}(2)$ [638]. $\text{SU}(2, 1)$ [1694]. $\text{SU}(2, 2)$ [1024]. $\text{SU}(2, 2/1)$ [1281]. $\text{SU}(3)$ [696, 1034, 1371, 1840]. $\text{SU}(4)$ [1692, 1083, 716, 638, 398]. $\text{SU}(4) \subseteq \text{SU}(2) \times \text{SU}(2)$ [925]. $\text{SU}(4) \supset \text{SU}(2) \otimes \text{SU}(2)$ [1205]. $\text{SU}(6)$ [476]. $\text{SU}(6) \supseteq \text{SU}(3) \otimes \text{SU}(2)$ [1583, 1782]. $\text{SU}(N)$ [1460, 1535, 1194, 597]. SU_2 [119, 1172, 1549]. $\text{SU}_2 \supset \dots \supset \mathbf{G}'' \supset \mathbf{G}' \supset \mathbf{G}$ [545]. $\text{SU}_2 \times \text{SU}_2$ [214]. SU_3^c [1207]. SU_6 [1207]. T [1676, 675, 8, 172, 1518, 1559, 241, 892]. \times [1207]. $\text{U}(1)$ [1880]. $\text{U}(2)$ [364]. $\text{U}(3)$ [387]. $\text{U}(3): \text{U}(2)$ [387]. $\text{U}(5) \subseteq \text{O}(5) \subseteq \text{O}(3)$ [516]. $\text{U}(M)$ [629]. $\text{U}(N)$ [629, 597, 1031, 1242, 364, 100, 1396, 133, 315, 648, 1390, 1893]. $\text{U}(n, 1)$ [140]. $\text{U}(p) \times \text{U}(q)$ [1838, 1839]. $\text{U}(p + q)$ [1838, 1839]. $\text{U}(p, q)$ [1838]. $\text{U}(p, q)$ [1839]. $\text{U}_1(M) \otimes \text{U}_2(M) \otimes \text{U}_3(M)$ [995]. $V(X) = a\|X\|$ [605]. φ^2 [1826, 1668]. φ^4 [1826]. ϑ [775, 352, 544]. W^* [1789]. $W_t^2 - W_x^2 - W_y^2 = 0$ [1156]. $W_t^2 - W_x^2 W_y^2 = 0$ [1157]. $x = 1$ [582]. x^{-2} [764]. $x^{2\alpha}$ [620]. $y = \pm 1$ [582]. Z [498]. $\mathbf{Z}_2 \otimes \mathbf{Z}_2$ [1483].

-algebra [1005, 845]. **-algebras** [353, 1906]. **-analytic** [431]. **-band** [890]. **-bell** [923]. **-body** [1025, 1329, 1750, 528, 917, 1706, 336, 1100, 1386, 1904, 1696, 485]. **-bubble** [796, 1176]. **-coefficients** [1615, 316, 317]. **-correlated** [614]. **-dimensional** [1089, 1048, 1047]. **-dimensions** [221, 1245]. **-electron** [1710]. **-equation** [1641]. **-equations** [867, 1202]. **-Fd3m** [52]. **-fibre** [1880]. **-Fm3m** [52].

-function [1201]. **-generalized** [1007]. **-harmonics** [1129, 1405]. **-Hilbert** [360]. **-level** [727, 538, 616]. **-like** [764, 1480]. **-matrix** [307, 1069, 83]. **-metric** [490, 1447, 1874]. **-mode** [1341]. **-model** [1926]. **-momentum** [1731]. **-parametric** [647]. **-plet** [1660]. **-point** [1223]. **-product** [1869]. **-quantum** [1060]. **-representability** [802, 803]. **-representation** [279]. **-representations** [1409]. **-separable** [458, 459, 1012, 1332]. **-site** [33]. **-soliton** [1896]. **-space** [1827, 494]. **-spaces** [496, 514]. **-sphere** [1317]. **-state** [1313]. **-structures** [1461]. **-system** [1295]. **-variable** [150]. **-vector** [1534]. **-wave** [1785, 1950, 234, 1676].

15015b [1951]. **16** [624, 775]. **17** [1787]. **18** [1953, 1451, 1091, 1065, 915]. **19** [1686, 1887, 1888, 1943, 1941, 1591, 1557, 1590, 1946, 1605, 1815, 1726, 1814].

20 [1942, 1935, 1949, 1944, 1950, 1952, 1889, 1951, 1945, 1890, 1940, 1947, 1936, 1938, 1939].

55 [1953, 1787]. **56** [1946]. **58** [1557].

80b [1940]. **80f** [1952]. **80g** [1945]. **80h** [1889]. **80i** [1949]. **80k** [1944]. **81038b** [1451]. **81039a** [1889]. **81d** [1950]. **81e** [1451]. **81j** [1951]. **82045a** [1940].

9 [225].

= [541].

Abelian [1761, 1923, 1192, 1289]. **above** [573]. **Absence** [1252, 1737]. **absorbing** [623]. **abstract** [736, 112]. **accelerated** [1758]. **acceleration** [1108, 107]. **accidental** [1046, 1048, 28, 304]. **Acoustic** [84, 853, 1210, 1277, 1531, 907]. **acoustics** [778, 1953]. **across** [1757]. **acting** [884, 1301]. **action** [1620, 1286, 1817, 974]. **actions** [1569]. **activity** [1633, 522, 561]. **adapted** [1400]. **adapting** [133, 315]. **Addendum** [624, 1590, 225, 1726, 1556, 915]. **addition** [704]. **Adiabatic** [156, 1713, 1640, 1948, 1280, 1478, 57]. **adiabats** [1226]. **adjoint** [353, 372]. **adjointness** [1865]. **admit** [1462, 1154]. **admittance** [467]. **admitting** [1832, 737, 943, 756, 944, 454, 1209]. **advanced** [10, 202]. **Affine** [1006, 441, 1537]. **affinity** [1830]. **Airy** [1863]. **AKNS** [831]. **Albedo** [1927, 1552]. **algebra** [163, 290, 1323, 1368, 1609, 250, 347, 276, 845, 1005, 1473, 1366, 468, 1454, 613, 1369, 1889, 1614, 1492, 1849, 375, 374, 384, 1680, 779, 712, 1748, 638, 515, 654, 655, 1497, 1365, 718]. **Algebraic** [100, 146, 939, 626, 1434, 964, 1666, 47, 1537, 1898, 341, 342, 1301, 1697]. **Algebraically** [514, 170, 410, 852, 1209]. **algebras** [1620, 1861, 987, 464, 88, 785, 1837, 1609, 1229, 1282, 276, 702, 319, 1634, 770, 1086, 1384, 1789, 297, 1391, 1853, 1091, 919, 821, 1468, 1612, 548, 353, 1906, 1109, 1639, 330, 505,

564, 965, 571, 1561, 1446, 1483, 654, 655, 768, 769, 1652, 1052]. **algorithm** [1720]. **algorithms** [966]. **aligned** [1121, 1542, 1159]. **alloys** [736]. **Almost** [1461, 547, 1372, 1461]. **almost-** [1372]. **Almost-Hermite-** [1461]. **almost-Killing** [1372]. **almost-product-** [1461]. **Almost-structures** [1461]. **along** [292, 560, 293]. **alternative** [1190]. **Altman** [1562]. **among** [1320, 100, 1653]. **Ampère** [1175]. **Amplitude** [1, 1719, 1516, 601, 225, 833, 1044]. **amplitudes** [1550, 307, 835, 1276, 971]. **analog** [1380, 1557]. **Analysis** [1855, 230, 624, 1120, 1540, 569, 1886, 46, 1846, 1466, 835, 442, 1050, 287, 1890, 1619, 1940, 1777, 1489, 1338, 810, 1365, 133, 315]. **Analytic** [14, 1101, 50, 1201, 1544, 1527, 1293, 241, 492, 916, 1707, 1633, 434, 1628, 1835, 1361, 741, 543, 498, 815, 1204, 1667, 435, 431, 746, 531, 669, 607, 1533, 3, 44, 405, 1349]. **analytical** [1643, 1298, 1943, 1550]. **analyticity** [684]. **analyzing** [1377]. **angle** [1560, 1816]. **angle-dependent** [1560]. **Angular** [586, 1740, 235, 66, 1029, 1859, 1951, 1688, 686, 316, 317, 534, 83]. **angular-spectrum** [534]. **anharmonic** [1538, 1361, 481, 1174, 1292, 394, 313, 620, 442, 1574, 1668, 1670, 1745, 176]. **anharmonic-oscillator** [1670]. **anharmonicity** [313, 620]. **anholonomic** [868]. **anisotropic** [1855, 600, 1119, 358, 787, 1055, 1545, 872, 685, 1475, 1046, 1048, 1045]. **anisotropy** [1150]. **annular** [1120]. **anticommuting** [1139, 1360]. **antifermion** [29]. **antinormal** [1788]. **any** [1322, 1133, 1941, 1651, 1755, 1261]. **Appell** [669]. **applicability** [1817, 1080]. **Application** [481, 46, 1174, 1292, 1562, 1745, 5, 43, 1707, 865, 1784, 1609, 1361, 731, 1030, 1438, 1741, 1420, 1859, 1951, 424, 1865, 1147, 1824, 1903, 1708, 1252, 1123, 1453, 1135, 1432, 736, 91, 1927, 188, 1608]. **Applications** [1666, 1935, 1632, 668, 873, 674, 205, 1804, 1581, 233, 867, 1201, 213, 127, 1928, 1868, 752, 1028, 969, 881, 774]. **applied** [991, 1013, 1345, 1899]. **Approach** [444, 1088, 1934, 587, 336, 1884, 1886, 1151, 73, 124, 437, 438, 155, 1662, 895, 1203, 1794, 341, 1900, 512, 455, 28, 649, 146, 1697, 1768, 1548, 1885, 1190, 1568, 193, 1920]. **approaches** [556, 1661, 826]. **approximant** [499, 517]. **approximants** [150, 143, 162, 570, 58, 542, 1516]. **Approximate** [582, 375, 948, 1343, 1656, 969]. **approximated** [1222, 1431]. **approximately** [639]. **Approximating** [823, 968]. **approximation** [592, 529, 748, 1129, 849, 1572, 1952, 609, 151, 301, 1169, 1856, 1431, 1564, 181, 1060, 1106]. **approximations** [370, 91, 1405, 848, 1676, 549, 1312, 560, 808, 812, 621, 317, 534, 1393, 605]. **arbitrary** [243, 961, 1486, 1602, 1412, 1912, 1698, 132, 870, 1824, 311, 820, 83, 117]. **arising** [1108, 920]. **array** [114, 113]. **Ashkin** [842]. **aspects** [1387, 335, 767, 138, 1203, 789, 802, 803, 1042]. **assembly** [106, 1167]. **associated** [987, 1682, 1710, 1136, 1645, 1064, 334, 103, 622, 817, 1056, 1612, 440, 1389]. **assumptions** [730]. **Asymmetric** [879, 1275, 760, 1705]. **Asymptotic**

[1543, 1273, 640, 1238, 448, 1754, 1364, 986, 902, 812, 1714, 1936, 525, 526, 534, 1291, 1487, 1376, 1550, 1386, 1168, 767, 1010, 151, 1459, 753, 328, 1863, 1395, 1605, 1285, 565]. **asymptotically** [1800, 68, 1912, 1799]. **atmospheres** [1927]. **atom** [592, 173, 665, 1304, 1298, 1943, 1032]. **atomic** [1250, 1659, 1682, 1710, 1298, 1943]. **atomlike** [1442]. **atoms** [1682, 1710, 760]. **attempt** [1675]. **attractive** [1739, 102]. **augmented** [1006, 1562]. **autocatalysis** [1934]. **autocorrelation** [54]. **automorphism** [1906]. **Automorphisms** [1597, 718, 1537, 353]. **Average** [366, 1456]. **averaged** [641]. **averages** [388]. **averaging** [359]. **avoiding** [1130]. **axial** [964, 40]. **axially** [1738, 942, 9, 171, 1103, 1587, 1674]. **axially-symmetric** [1103]. **Axiomatic** [928, 453, 975]. **axiomatics** [978]. **axis** [1536, 689, 687, 53]. **Axisymmetric** [795, 743, 1612, 147, 1728, 1417, 294]. **axisymmetry** [1715]. **azimuthal** [1290, 1590]. **Azzarelli** [1044].

Bach [1142]. **background** [48]. **backgrounds** [636, 1602]. **Bäcklund** [541, 238, 382, 1139, 1847, 1504]. **bad** [936]. **balance** [1731]. **Banach** [36, 1474]. **band** [890, 706]. **bands** [549]. **Bargmann** [358]. **barotropic** [1240]. **barriers** [573]. **baryon** [964, 1259]. **baryonium** [1692]. **baryons** [1692]. **base** [1049]. **based** [584, 1707, 91, 518, 1340, 1686]. **bases** [1397, 588, 589, 1400]. **basic** [1100, 739, 810, 1191, 437]. **basis** [1630, 1547, 434, 1925, 498, 79, 1838, 1839, 1218, 1840, 1396, 928]. **Baxter** [195]. **Baym** [1520]. **BCH** [208]. **Beam** [1536, 199, 48, 1798, 31, 1078]. **behavior** [1452, 1225, 1370, 1796, 391, 986, 902, 1276, 1863, 1395, 1605, 1291]. **behaviour** [1168]. **bell** [923]. **belonging** [943]. **below** [271, 1032]. **Benjamin** [1685, 1093]. **Bergmann** [1514]. **Bernoulli** [872]. **Bertotti** [1177]. **Bertrand** [1425]. **Bessel** [1138]. **Bethe** [361, 524, 29]. **between** [507, 470, 1143, 1155, 1259, 1433, 621, 1788, 1293]. **BGK** [810]. **Bianchi** [575, 1597]. **Bifurcate** [185, 1736, 98, 99]. **Bifurcation** [653, 705, 1406]. **Bilinear** [450, 548, 644, 1167]. **Binary** [663, 138, 1607]. **binding** [1570]. **biorthogonal** [1008]. **Biot** [1180]. **Birkhoff** [1231]. **Birman** [1819]. **Bivariational** [570]. **Bivector** [973]. **Black** [413, 1260, 433, 1022, 606, 732, 1759, 519]. **blowing** [1021]. **Blume** [1795]. **bodies** [671, 672]. **body** [1268, 249, 1025, 1329, 1750, 917, 1706, 336, 182, 1100, 1386, 901, 1705, 198, 155, 23, 1904, 528, 1725, 142, 859, 1254, 1336, 1786, 1945, 1906, 256, 1696, 485, 1346]. **body-centred** [142]. **Bogoliubov** [690, 1500, 847, 828]. **Bogolubov** [647]. **Bogolyubov** [1166]. **Bogolyubov-boson** [1166]. **Bohr** [1420]. **Boltzmann** [242, 1163, 1555, 631, 899, 284, 1248]. **Bondi** [816, 1872]. **bonds** [121]. **Bonnor** [1915]. **Boost** [1766, 1017, 379]. **Bopp** [788]. **Borel** [1872, 1292, 309]. **Born** [517, 621]. **Bose** [1889, 690, 1086, 1722, 1614, 1794, 752, 38, 1137, 1470, 1918]. **Bose-like** [1137]. **Boson** [1565, 814, 221, 729, 1606, 813, 590, 847, 76, 515, 1788, 1365, 1166, 550, 589]. **boson-fermion** [515]. **bosons** [846, 1167, 1877]. **both** [337]. **Bound**

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