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#11812 [1033]. **#17627** [300].

$(++--)$ [591, 1129, 1288]. $(-\infty,\infty)$ [2203]. $(1-X^2)$ [1832]. $(2+1)$ [344]. $(4+1)$ [1674]. $(\mathrm{ad}^{\otimes k})_s$ [2109]. $(\Delta-m^2)u=0$ [834]. $(JJ^*)^{-1}$ [870]. $(\partial/\partial x)[a(u+b)^{-2??}(\partial u/\partial x)]-(\partial u/\partial t)=0$ [170]. $(\Psi(z)-z)^{-1}$ [998]. (Sp(4): 4) [1039]. (x,t) [2015]. $*$ [1325, 658]. 0 [601]. 1 [492, 678]. $1+1$ [1602, 1895, 968]. $1+3$ [968]. $1-\exp[-a(r-r_e)]$ [1342]. 1/2 [1692, 637, 101, 1752, 238, 404, 467, 529, 1793, 601, 1478]. $1/N$ [285, 1845, 410]. $1/r$ [419, 1942]. 2 [160, 1690, 957, 678]. $2+1$ [2093]. $2+2$ [1371]. 2ω [650]. 2×2 [2161]. $2\times 2\times N$ [1557]. $2\times N$ [1734]. 3 [2104, 13, 466, 917, 1391, 109, 245]. $3+1$ [2085, 1623]. $3\times N$ [1223]. 4 [1221, 1875, 561, 591, 1129, 1288, 1050, 944]. 5 [1876]. 6 [2104, 1811, 1350, 109, 245]. $6j$ [2071]. 9 [801]. $[\mathrm{SU}(2)]^3$ [2125, 2124]. $^+$ [643]. $^-$ [1452]. $^{-1}$ [721]. $_2$ [558]. A [1009, 385]. $\mathrm{A}(0,n)$ [208]. $\mathrm{A}(m,n)$ [764]. A_1, [1627]. A_2, [1627]. A_3, [1627]. $\alpha x^2+\beta x^4$ [1840]. B^* [1683]. B_2, [1627]. β

[1981]. c [323]. C^* [799]. $\mathcal{E}_6 \otimes \mathcal{U}(1)$ [1097]. $\mathcal{H}$ [544, 565, 487]. $\mathcal{HH}$ [544, 1099, 912]. CC^* [902]. $:\exp\xi:_d$ [1795]. $\mathbf{C}P^N$ [494]. $\mathbf{C}\mathrm{P}_2^{n-1}$ [1464]. D [1220, 709, 1974, 913, 1118, 1643, 2213, 1973, 1196, 1934]. $d = 11$ [2158]. $D = 8$ [1915]. $\ddot{\mathbf{r}} = \hat{l}_r\{[\ddot{U}(t)/U(t)]r - [\mu_0/U(t)]r^{-2}\}$ [1542]. $E_1(x)$ [1236]. E_6 [726, 2110, 2071]. E_7 [726]. E_8 [726]. $\exp[i(\omega/c)(r-ct)]/r$ [1869]. F(4) [1188]. F_4 [726, 1811]. G [837]. G(3) [1188]. $g-2$ [610]. G_2 [1082, 855, 1197, 1627, 301, 796]. $\mathrm{GL}(4, \mathbf{R})$ [2208]. $\mathrm{GL}(n, \mathbf{R})$ [859]. Gln?? [55]. Gsl(2) [1884]. $\mathrm{G} \supseteq [\mathrm{SU}(2)]^n$ [1881]. H [985, 82, 255, 1209, 509, 1262, 1158]. i° [2085]. $\mathrm{III} \otimes \mathrm{III}$ [167]. $\mathrm{II} \otimes \mathrm{II}$ [165]. $\mathrm{II} \otimes \mathrm{III}$ [166]. $\int_0^1 r|v(r)|\,dr + \int_1^\infty |v(r)|\,dr < \infty$ [214]. $\mathrm{I} \otimes \mathrm{I}$ [162]. $\mathrm{I} \otimes \mathrm{II}$ [163]. $\mathrm{I} \otimes \mathrm{III}$ [164]. ISO(n) [19, 686]. IU(n) [583]. J [906, 1742, 2104, 1875, 1811, 801, 1391, 1350, 1876, 2184, 109, 245]. $J^{\alpha\beta}$ [592]. jm [2104]. K [424]. K_3 [500]. l [485, 1681, 271, 1803, 1472, 1473]. L^2 [267]. $L_w^{l/2}(R^l)$ [599]. λ [913]. $\lambda P(\varphi)$ [341]. $LCRG$ [1238]. m [409]. M_4 [380, 171, 536]. N [1175, 1839, 1962, 1312, 2021, 842, 1267, 963, 1857, 396, 318, 1597, 1535, 45, 542, 1942, 610, 1491, 1497, 2113, 896, 1085]. $n+1$ [2006]. $N = 2$ [1101]. $n_t = (n^{-1}n_x)_x$ [1043]. $N \geq 1$ [804]. O(3) [1667, 802, 803, 1433]. O(3, 3) [380]. O(4) [1432, 196]. $\mathrm{O}(6) \supseteq \mathrm{SO}(2)\mathrm{SU}(3) \supseteq \mathrm{SO}(3)$ [1907]. O(n) [86, 805, 1435]. $\mathrm{O}(p) \downarrow \mathrm{O}(p-2) \times \mathrm{O}(2)$ [1534]. O(p, q) [351, 56]. $\mathrm{O}^+(2, 2)$ [2000]. O_l^0 [795, 293, 294, 1484]. osp(1, 2) [949]. Osp(2, 1) [471]. OSP(3, 2) [2177]. P [122, 168]. P(1, 4) [2176]. $P(h, T)$ [2212]. $P(\varphi)$ [705]. $P(\varphi)_2$ [1184]. P_l^0 [1082]. p_α [592]. $\partial^2 u/\partial x\partial t = f(u) and \partial u/\partial t = \partial^2 u/\partial x^2 + f(u)$ [1730]. $\{\partial_{xx} + 2i\partial_t - 2g_2(t)x^2 - 2g_1(t)x - 2g_0(t)\}\Psi(x,t) = 0$ [901]. πN [1079]. $Pn3'n$ [305]. R [444, 1437, 1027]. $\mathrm{R}(2\lambda+1)$ [397]. R(3) [91, 397, 796]. R(5) [292]. $\mathrm{R}(5)\mathrm{O}_l^0$ [398]. $\mathrm{R}(5)\mathrm{SU}(2) \otimes \mathrm{SU}(2)$ [795]. R(7) [302, 1483, 1484]. $R + R^2$ [1686]. $\mathbf{R}^4$ [1106]. R^n [1964, 1656]. ρ [1828]. S [1297, 1376, 1471, 1689, 1470, 385, 2142, 836, 1365, 223]. $\mathrm{S}(f_1 + f_2) \supseteq \mathrm{S}(f_1) \times \mathrm{S}(f_2)$ [438]. S^* [497]. S_L [1348]. σ [1753, 1501]. $\mathrm{Sl}(2) \wedge T_2$ [861]. SL(2, $\mathbf{C}$) [1077, 1624]. SL(2, $\mathbf{R}$) [925, 117]. SL(3, $\mathbf{R}$) [210, 12, 436]. $\mathrm{SL}_4(\mathbf{R})$ [205]. SO(10) [2110]. SO(2) [1890, 1989]. SO(2, 1) [111]. SO($2N$) [1388, 1762]. $\mathrm{SO}(2n) \to \mathrm{SO}(2n-2) \otimes \mathrm{U}(1)$ [2002]. SO(3) [1814]. $\mathrm{SO}(3) \otimes \mathrm{SO}(3)$ [1811]. SO(3, 1) [585, 1568]. SO(3, 2) [687]. SO(4) [1432, 1923]. so(4, 2) [308]. SO(4, 2) [687]. SO(5) [1431]. SO(7) [1610, 1877, 2125, 2124]. SO(N) [1267, 1878, 1395, 859, 261]. SO($n+1$) [686]. SO(n, 1) [116, 686]. $\mathrm{SO}^*(2n)$ [1762]. $\mathrm{Sp}(2n) \downarrow \mathrm{Sp}(2n-2)$ [115]. sp(3, $\mathbf{R}$) [154]. $\mathrm{Sp}(3, \mathbf{R}) \times \mathrm{O}(N-1)$ [2210]. $\mathrm{sp}(4N; r)[\mathrm{gl}(4N; r)]$ [804]. Sp(6) [1880, 854]. $\mathrm{Sp}(6) \supseteq \mathrm{Sp}(2) \times \mathrm{O}(3)$ [2105]. $\mathrm{Sp}(6) \supseteq \mathrm{U}(3)$ [1880]. Sp(n) [1319, 1762]. Sp(n, $\mathbf{R}$) [1319]. $\mathrm{Sp}(p) \times \mathrm{Sp}(q)$ [1810]. $\mathrm{Sp}(p+q)$ [1810]. Sp(p, q) [1810]. Spin(2, 1) [926]. Spin(2, 2) [926]. spl(2, 1) [206, 207]. SU(1, 1) [1195]. SU(2) [197, 1132, 1379, 749, 89, 1076, 473, 2028, 1812]. $\mathrm{SU}(2) \otimes \mathrm{U}(N)$ [804]. $\mathrm{SU}(2) \times \mathrm{SU}(2)$ [1431]. SU($2n$) [1762]. SU(3) [684, 1194, 802, 803, 1108, 1763, 1164, 1732, 1025, 306, 1199, 1433]. $\mathrm{SU}(3) \supseteq \mathrm{R}(3)$ [1396]. $\mathrm{SU}(3) \supseteq \mathrm{SO}(3)$ [353]. $\mathrm{SU}(3) \times \mathrm{U}(1)$ [854]. SU(5) [1080].

SU(5) $\supseteq$ SU(3) $\times$ SU(2) $\times$ U(1) [1569]. SU(8) [2158]. SU(M) [1231]. SU(m/n) [1607, 1307]. SU(mn) $\supseteq$ SU(m) $\times$ SU(n) [438]. SU(N) [1273, 180, 755, 1263, 2013, 372, 2104, 859, 1753, 800, 352]. SU(N) $\times$ SU(N) [198]. SU($N+M$) [1087]. SU(N/M) [1087]. SU($n|1$) [1935]. SU(p, q) [1999]. SU*($2n$) [1762]. SU$_2$ [84]. SU$_2$ $\times$ SU$_2$ [1946]. SUn [1651, 1348]. T [727, 1663, 1065, 1256, 920, 1472, 1473, 1455, 2133, 2132, 2220, 1079, 502, 503]. T*Q $\oplus$ TQ [1659]. U(1) [675]. U(2) [754]. U(2)$\sigma\mathbf{C}^{2\times 2}$ [303]. u(3) [1637]. U(4) [1490]. U(6) $\supseteq$ SU(3) $\supseteq$ SO(3) $\supseteq$ SO(2) [676]. U(6) $\supseteq$ U(3) $\supseteq$ U(2) $\supseteq$ U(1) [676]. U(6) $\wedge$ SU(3) [1756]. U(N) [1987, 406, 1263, 410, 2104, 86, 474, 440, 247, 1319, 1762]. U(N/M) [1987]. U(p) $\times$ U(q) [1109]. U($p+q$) [1109]. U($p+q$) $\downarrow$ U(p) $\otimes$ U(q) [1086]. U(p, q) [1109]. V [2098]. $V(r) = (\sin r)/r^\beta, 1/3 < \beta \leq 1/2$ [1018]. V^* [2077]. ε [97, 1670]. φ^3 [719]. φ^4 [1499]. φ_4^4 [1270]. $x^2 + \lambda x^2/(1+gx^2)$ [422]. x^{2N} [1322]. x^α [592]. xy [347]. $y_{LM}[(\mathbf{r}_1 \bigwedge \mathbf{r}_2) \bigwedge \mathbf{r}_3]$ [1440]. $y_t + y_{xxx} - 6y^2 y_x + 6\lambda y_x = 0$ [1899]. Z [683, 63]. Z$_2$ [386]. Z$_2$ $\times$ Z$_2$ [386]. Z$_2$ $\times$ Z$_2$ $\times$ Z$_2$ [386]. Z$_n$ [1650]. Z$_N$ $\times$ Z$_N$ [1200]. $|x|^{-(n+1)/2}$ [1964]. $|x|^\nu$ [1161, 903].

***** [1058]. ***-quantization** [1058].

-algebra [799, 1683]. **-algebras** [658, 2077]. **-anharmonic** [1322]. **-basis** [500]. **-bell** [1981]. **-body** [1175, 1962, 1312, 963]. **-boson** [1637]. **-bubble** [610]. **-bug** [542]. **-classes** [1501]. **-component** [917]. **-de** [1674]. **-dependent** [267]. **-depending** [2015]. **-dimensional** [344, 2113, 1839, 1267, 1535, 45]. **-equation** [255, 1209, 509, 1158]. **-equations** [82]. **-field** [1027]. **-fields** [385]. **-forms** [957]. **-gravitating** [567]. **-invariant** [1077, 1624]. **-manifolds** [591, 1129, 1288]. **-matrix** [1471, 1689, 1470, 1663, 385, 1065, 1256, 2142, 836, 906, 1742]. **-metacyclic** [683]. **-model** [1753]. **-momenta** [1221]. **-number** [323]. **-parameter** [160]. **-photon** [409]. **-potentials** [599]. **-proper** [1009]. **-separable** [444]. **-separation** [1437]. **-space** [561, 487]. **-spaces** [565]. **-supermanifolds** [1828]. **-surfaces** [424]. **-symbol** [1811, 2071]. **-theorem** [985, 1262]. **-theory** [1270]. **-topology** [678]. **-type** [122, 168]. **-vector** [944]. **-wave** [13, 466, 1365].

15015b [581]. **18** [1033]. **19** [204, 158, 300].

20 [203, 370, 436, 243, 466, 624, 51, 581, 244, 17, 105, 348, 52, 53]. **20009b** [1194]. **21** [613, 242, 350, 614, 947, 798, 934, 467, 437, 894, 536, 537, 1004, 349, 649]. **22** [1160, 1720, 1566, 1194, 893, 1034, 1129, 1005, 1084, 1130, 1162, 895, 1006]. **23** [1281, 1886, 1161, 1428, 1429, 1608, 1085]. **24** [1606, 1722, 2214, 2102, 2222, 2218, 1607, 1430, 2147, 2224]. **25** [2216, 2180, 2213, 2219, 2223, 2221, 2179, 2215, 2217, 2148, 2181, 2220].

55 [1033]. **56** [300].

80b [105]. **80f** [624]. **80g** [244]. **80i** [436]. **80k** [243, 349]. **80m** [242]. **81066b** [537, 1004]. **81a** [894]. **81d** [466]. **81f** [649]. **81g** [613]. **81j** [467, 581]. **81k** [934]. **81m** [798, 537, 1004]. **82045a** [105]. **82b** [947]. **82d** [1720]. **82f** [1162]. **82j** [1129]. **82m** [1161]. **83a** [536]. **83b** [1194]. **83j** [1566]. **83m** [1886, 1608]. **84b** [1722]. **84g** [2218]. **84j** [2214]. **84m** [2224]. **85d** [2215]. **85e** [2222, 2223]. **85i** [2219]. **85m** [2220]. **86e** [2221].

Abel [484]. **abelian** [1419, 881, 1856, 856, 857, 1571, 1715, 504]. **abelizing** [2045]. **abruptly** [48]. **absence** [1703, 1815, 361]. **absolutely** [1815]. **Absorption** [258, 409]. **ac** [1468]. **accelerated** [909, 910]. **Accelerating** [1789, 964, 929]. **acceleration** [1370, 547]. **accidental** [1409]. **according** [353]. **accurate** [420]. **acoustic** [1963, 1500, 1968]. **acoustical** [2162]. **acoustics** [1, 1033, 886]. **action** [1406, 1218, 1429, 1120, 531, 1784, 1892]. **action-principle** [1218, 1429]. **actions** [1379, 413]. **activated** [48]. **active** [1271]. **adapted** [1282, 1283]. **Addendum** [895, 934]. **Addition** [1200, 249, 418]. **additional** [864]. **additive** [1172]. **adequate** [90]. **adiabatic** [8, 370, 2053]. **Adjoint** [1294, 1293, 862, 1785, 269, 798, 755, 1633, 139, 1613]. **adjointness** [520, 194, 2154]. **Adjoints** [693, 1084]. **admitting** [1856, 1070, 2024]. **admixtures** [920]. **advantages** [265]. **Aesthetic** [187, 527]. **Affine** [501, 1766, 1058]. **affinely** [1816]. **affinely-connected** [1816]. **against** [1481]. **Aharonov** [551, 702, 452]. **algebra** [930, 804, 246, 799, 1354, 2045, 1228, 1570, 763, 702, 2108, 1434, 1884, 1960, 754, 1039, 308, 1792, 1726, 468, 210, 470, 762, 1349, 87, 680, 488, 1683, 55]. **Algebraic** [773, 326, 950, 1676, 1090, 185, 235, 710, 989]. **Algebraically** [670, 751, 893, 544, 43, 1099, 1978]. **Algebras** [758, 759, 1760, 248, 1629, 574, 575, 1487, 1688, 590, 2077, 1206, 1140, 1882, 1883, 2033, 1532, 1766, 1988, 2109, 790, 650, 2183, 1616, 1111, 658, 2066, 1765, 106, 107, 897, 1675, 354, 977, 1571, 1488, 469, 896, 1085, 1809, 1670, 2036, 2154, 739, 1814, 2034]. **algorithm** [2002, 398, 1245, 1289]. **aligned** [1974]. **allowed** [1361]. **almost** [633, 1815, 530, 1737]. **almost-Mathieu** [1815]. **along** [1875, 1876, 2184]. **alpha** [2148, 1871]. **alpha-function** [2148, 1871]. **alternative** [340, 664, 24, 1176]. **ambiguities** [898]. **amplitude** [445, 496, 125, 1964, 284, 68, 331, 71]. **Amplitudes** [607, 1692, 664, 46, 484, 905, 714, 324, 262, 195, 1824, 1270, 1990]. **analog** [816, 879]. **analogue** [417]. **Analysis** [579, 272, 1315, 1394, 804, 670, 892, 1570, 863, 2090, 1681, 1127, 17, 7, 105, 1423, 1889, 1480, 1687, 2154, 1904, 1827]. **Analytic** [97, 1880, 983, 1166, 997, 810, 1108, 1840, 372, 2044, 1927, 1407, 1584, 2165, 1637, 47, 560, 1585]. **Analytical** [507, 540, 847, 794, 727, 1899, 4, 204, 578, 1774]. **Analyticity** [341, 2093, 1366, 2164, 2064, 745, 1079, 1990]. **angle** [1352, 1353]. **angles** [1327, 820, 2152]. **Angular**

[1366, 1267, 287, 326, 552, 911, 249, 581, 271, 1573, 1621, 2224, 1485].
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