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#5824 [1784].

$(3 + 1)$ [1104]. $(:\phi^4:)$ $_{1+1}$ [1573, 1574]. $(\nabla^2)\phi = -\phi - \phi^3$ [432].
 $(\partial/\partial t + a(t, x, y)\partial/\partial x + b(t, x, y)\partial/\partial y + c(t, x, y) + d(t, x, y)\partial^2/\partial x\partial y)u = f(t, xy)$
[251]. $(\partial^2/(\partial x\partial y) + ax\partial/\partial x + by\partial/\partial y + cxy + \partial/\partial t)P = 0$ [84, 155].
 $(\partial^2/\partial x\partial y + ax\partial/\partial x + by\partial/\partial y + cxy + \partial/\partial t)P = 0$ [108]. $(\varphi^4)_3$ [1243]. $+$ [290].
 $-f^2/r^4$ [1126]. 0 [290]. 1 [290]. $1/2$ [440, 1068, 1374]. 12 [1664]. 15 [1664].
 $1 \leq m \leq n$ [1754]. $2 \times N$ [828, 1502, 1457, 381]. 3 [1672]. $3 + 2$ [566, 544]. 6
[925]. 9 [1148, 805, 1297]. $-$ [1129]. 4 [234]. ${}_2$ [868, 861]. ${}_3$ [1395]. ${}_3F_2$ [763].
 ${}_sY_m(\theta, \phi)$ [682]. A_n [68]. α [714]. B_n [68]. C^* [962, 1644, 1645, 1646]. C^∞
[1232]. C_n [68]. $:\phi^4:$ [272]. D [400, 1198]. D^j [909]. D_4 [1124]. D_n [68]. δ
[772]. $E(2)$ [436]. $E2$ [200]. f [364, 757, 1773, 1441]. F_4 [486]. F_D [1010].
 $f_{tt} - f_{ss} = \gamma^2 f$ [1780, 1598]. g [1773, 1441]. $G(0, 1)$ [404]. G_2 [372].
 $\Gamma_{jk;l}^i = 0, g_{ij;k} = 0$ [926]. $GL(n)$ [729]. $GL(N) \supset \Sigma_m$ [1465]. H [380, 1054].
 $H = -(1/2)d^2/dx^2 + m^2x^2/2 + g/x^2$ [1624]. I [420].

$\Gamma^m[\mathbb{S}_p(n) \otimes \mathbb{S}_p(m)] \Rightarrow \mathbb{S}_p(n, m)$ [1754]. $\Gamma^m[\mathbb{SO}(n) \otimes \mathbb{SO}(m)] \Rightarrow \mathbb{SO}(n, m)$ [1754].
 $\Gamma^m[\mathbb{U}(n) \otimes \mathbb{U}(m)] \Rightarrow \mathbb{U}(n, m)$ [1754]. ISO_n [462]. IU_n [1043].
 $i\mathbb{U}_t + \mathbb{U}_{xx} - c/x^2\mathbb{U} = 0$ [1699]. $i\mathbb{U}_t + \mathbb{U}_{xx} = 0$ [1699]. $\text{IUSp}(2\nu_1, 2\nu_2)$ [226]. J
[615, 1672, 1148, 1664, 805, 1297, 925]. k [1713]. k_ν [333]. $k \geq 4$ [1713]. L
[695, 1626]. L^2 [1089, 523, 803]. L^∞ [1745]. $\lambda: \phi_2^4(x):$ [1080, 1079]. $\lambda\phi_2^4$ [1036].
 λx^{2m} [1290]. μ [1751]. N [185, 490, 1123, 1784, 565, 822, 917, 1041, 767, 1228,
874, 1155, 1030, 401, 1329, 1157, 1212, 1719, 243, 407]. N/D [16, 17, 327].
 N/V [1436, 1649]. O [1124]. $O(1, 1) \otimes O(2)$ [995]. $O(2, 1)$ [555, 475, 1410, 267].
 $O(2, 1) \times O(3)$ [964]. $O(3)$ [1708, 734]. $O(3, 1)$ [89]. $O(3, 1) \supset O(2, 1) \supset O(1, 1)$
[497]. $O(4)$ [290, 89, 627, 1414]. $O(5)$ [137, 152, 635, 1559]. $O(n)$ [729, 895].
 $P(\varphi)_2$ [1230]. $P(x, y, t = 0) = \Phi(x, y)$ [84]. $\partial t^2 f - \Delta f = 0$ [130]. ϕ^4 [1446].
 $\phi^4: i + 1$ [721]. $\pi N \rightarrow \gamma N$ [615]. $\pi N \rightarrow \pi B_s$ [578]. $\pi N \rightarrow \pi N$ [615].
 $\prod_{i=1}^N (\nabla^2 + k_i^2)\Psi = 0$ [1242]. $Q(4, 2)$ [361]. R [1683, 1684]. $R_{jkl}^i \neq 0$ [926]. R_4
[317]. R_5 [511, 879]. S
[429, 1045, 637, 520, 73, 121, 1505, 523, 1482, 1626, 1629, 682, 1700]. S_N
[1157]. $\text{SL}(2, C)$ [200, 132, 812, 336, 1363, 1344, 538, 539]. $\text{SL}(3, C)$
[1219, 224]. $\text{SL}(n, C)$ [138]. $\text{SL}(n, C) \cdot R(n^2)$ [354]. $\text{SO}(2, 1)$ [1203, 1633].
 $\text{SO}(2, C)$ [1533]. $\text{SO}(3)$ [1633]. $\text{SO}(3, 2)$ [361]. $\text{SO}(4, 1)$ [361]. $\text{SO}(4, 2)$ [537].
 $\text{SO}(5)$ [1166]. $\text{SO}(N)$ [1429, 728, 649]. $\text{SO}(n, 1)$ [1421]. $\text{SO}(p, 1)$ [1528, 659].
 $\text{SO}(p, 1) \supset \text{SO}(p-1, 1)$ [724, 1183]. $\text{SO}(p, q)$ [671, 1725]. $\text{SO}^+(n, 1)$ [171].
 $\text{SO}_0(n, 1)$ [451]. $\text{SO}_0(p, 1)$ [1195]. $\text{SO}_0(p, q)$ [209].
 $\text{SO}_0(p-1, q-1)$ [multiplication in righthalf circle] \mathbb{T}_{p+q-2} [209]. SO_n [462].
 $\text{SO}_{n,1}$ [462]. $\text{SO}_{n,1} \supset \text{SO}_{1,1} \otimes \text{SO}_{n-1}$ [1514]. $\text{Sp}(4)$ [1167, 1166]. $\text{SP}(n)$ [729].
 $\text{Sp}(n+2)$ [186]. $\text{SU}(1, 1)$ [1408, 267, 1488]. $\text{SU}(1, 1) \otimes \text{SU}(2)$ [821]. $\text{SU}(2)$
[296, 1408]. $\text{SU}(2, 1)$ [1648]. $\text{SU}(2, 2)$ [821, 481]. $\text{SU}(3)$
[985, 1708, 122, 1302, 1259, 224, 240, 518, 1427]. $\text{SU}(3) \otimes \text{SU}(2) \subset \text{SU}(6)$
[1623]. $\text{SU}(4)$ [1167]. $\text{SU}(4) \supset \text{SU}(2) \otimes \text{SU}(2)$ [402]. $\text{SU}(6)$ [1623].
 $\text{SU}(6) \supset \text{SU}(3) \otimes \text{SU}(2)$ [240]. $\text{SU}(n)$ [1138, 889, 1028, 1198, 817, 491].
 $\text{SU}(n-2) \times \text{SU}(2) \times \text{U}(1)$ [817]. $\text{SU}(p, q)$ [671, 1648]. T
[597, 768, 755, 178, 1628, 1778, 627, 1414, 1154, 1340, 1626, 1341, 1127].
 $\mathbb{T}(2n) \stackrel{\pm}{=} \text{Sp}(n)$ [186]. U [1111, 772]. $U(3)$ [1094, 1095, 1009].
 $U(4) \supset U(2) \otimes U(2)$ [184]. $U(k)$ [931]. $U(m)$ [752]. $u(n)$
[458, 1759, 881, 1604, 301, 1157]. $U(n) \supset \text{SO}(n)$ [183]. $U(N) \supset U(M)$ [1216].
 $U(n+m) \downarrow U(n) \times U(m)$ [346, 766]. $U(p, 1) \supset U(p)$ [1141]. U_{2n} [28].
 $U_{2n} \supset U_n + U_n$ [28]. $U_{n,1}$ [1043]. $\text{USP}(2\nu_1 + 2, 2\nu_2)$ [226]. $\text{USp}(2\nu_1, 2\nu_2 + 2)$
[226]. V [1111]. $V\theta$ [958]. X [1214]. $X - Y$ [1233]. XY [440]. Y [1214]. Z
[1219]. $|\phi|^{2N}$ [600].

-algebraic [962, 1644, 1645, 1646]. **-body** [1212, 490, 767, 1123, 1784, 1155].
-calculation [138]. **-dependent** [1089]. **-dimensional** [364, 757, 185, 874].
-fold [565]. **-formulation** [537]. **-function** [772]. **-functions** [380].
-invariant [171]. **-matrix** [520, 1505, 1684, 1482, 755, 178]. **-operator**
[1219]. **-Parametrization** [200]. **-particle** [243, 917]. **-perturbations**

[1232]. **-point** [407, 1030]. **-representability** [822, 401]. **-representable** [1041]. **-soliton** [1228]. **-space** [1751]. **-spin** [420]. **-Symbol** [925]. **-Theorem** [1054]. **-type** [1198, 17]. **-wave** [1700, 695, 73].

1 [515]. **1-D** [515]. **11** [857]. **12** [1784]. **13** [1785]. **14** [1466]. **1D** [1524].

2- [1041, 419]. **2-Dimensional** [305]. **2-Form** [662].

3 [775]. **3-J** [775]. **3-parameter** [419]. **3-Space** [920].

43 [1784].

6 [775]. **6-J** [775].

Abnormal [635, 672, 152]. **Absence** [1675, 25, 1056, 1226, 1614, 1552, 954]. **absolute** [559]. **absorption** [337]. **absorptive** [727]. **Abstract** [569, 1135]. **AC** [562]. **Accelerated** [585]. **Accelerating** [707]. **Acceleration** [944]. **accelerations** [434]. **accelerator** [499]. **accidental** [1208, 1209]. **According** [228]. **Accuracy** [50, 270]. **accurate** [700]. **Action** [809, 1512, 1692]. **action-at-a-distance** [1692]. **Actions** [845]. **Adapted** [628, 1157]. **Addendum** [833, 636, 1614, 1537, 1311]. **Addition** [5]. **additively** [158]. **Adiabatic** [50, 748, 412, 496, 1190, 166]. **adjacent** [1098]. **Adjoint** [602, 301, 649, 825]. **adjointness** [1574]. **admit** [1621, 1566, 199]. **Admitting** [765, 14, 1295, 1131]. **advance** [1474]. **advanced** [1753, 1779]. **Advection** [722]. **Agranovitch** [1358]. **Albedo** [220]. **Algebra** [873, 510, 1484, 937, 1235, 872, 1429, 88, 1572, 1436, 1708, 1625, 1449, 1649, 1613, 1754, 1121]. **Algebraic** [1039, 143, 769, 1055, 735, 958, 1335, 367, 1246, 829, 1488, 962, 1078, 1644, 1645, 1646]. **Algebraically** [1142, 1484, 1609, 1511]. **Algebras** [873, 764, 819, 676, 916, 186, 376, 628, 887, 1354, 1386, 1656, 575, 1523, 1152, 495, 231, 921, 922, 1617, 158, 848, 1044, 226, 1632, 744, 677]. **Alisauskas** [1297]. **Almost** [505, 831]. **along** [386]. **Alternative** [76]. **Amati** [1464]. **ambiguity** [1356]. **among** [1184, 1207, 862]. **Amplitude** [969, 349, 1371, 223, 1657, 1600, 1601]. **Amplitudes** [615, 181, 142, 164, 513, 39, 64, 1356, 135, 520, 1713, 1515, 344, 475, 971, 727, 1718, 654, 716, 717]. **Analogs** [38]. **Analysis** [873, 230, 156, 620, 146, 325, 945, 872, 924, 232, 1079, 1516, 1493, 1173, 127, 1144, 1246]. **Analytic** [909, 308, 476, 956, 557, 934, 961, 1118, 667, 919, 661, 594, 1463, 220, 504, 1255, 1035, 1356, 945, 1731, 153, 1371, 1300, 512, 993, 1349, 1636, 1264, 1602, 1420, 1280, 1626, 1627, 1629, 1775, 997, 1161, 515]. **Analytical** [106, 860]. **Analyticity** [223, 1461, 547, 755, 1084, 1626]. **and/or** [490, 1654, 1784]. **angles** [874]. **Angular** [531, 437, 876, 796, 594, 858, 859, 1610, 418]. **Anharmonic** [999, 100, 1290, 1130, 1549]. **Anholonomic** [275]. **anisotropic** [1248, 1721, 1117, 1403, 198, 1107, 1208, 280, 58]. **Anisotropy** [41]. **annular** [522]. **Anomalous** [1133, 1479]. **antifermion** [500]. **Antiferromagnetic**

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877, 1210, 1508, 1423, 1697, 516, 1498, 1664, 374, 1124, 1545, 860, 1477, 1064,
823, 1488, 580, 389, 1519, 910, 805, 1085, 1120, 711, 712]. **approaches**
[1500, 1676]. **approximant** [1145]. **approximants** [1146, 1134, 1288].
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[1346, 1347, 1262]. **Arbitrary**
[944, 504, 536, 26, 1263, 182, 434, 664, 1666, 1688, 1551, 1539, 1015, 942].
Arbitrary-Spin [536]. **Argument** [173]. **Arising** [815, 159]. **array**
[1088, 1502]. **arrays** [1457, 381]. **Ashkin** [1389]. **aspect** [1335]. **Aspects**
[484, 321, 1709, 1489]. **assemblies** [1518]. **Associated**
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[1387, 888, 527, 1143, 802, 742, 552, 30, 1433, 44, 1729, 1747, 698, 1042, 172,
443, 831, 798, 1368, 1237, 26, 489, 929, 1361, 222, 314, 1258, 816, 818, 442, 1058].
Asymptotically [777, 1652, 950, 832, 1074, 156, 607, 1492, 1082].
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[639, 796, 31, 179, 548, 1162, 1163, 1743, 742, 1024, 768, 315, 654, 1504].
atom-rigid [1024]. **Atomic** [343, 1387, 161, 704]. **atomicity** [1047]. **Atoms**
[335, 700]. **Attractive** [294, 392, 1700]. **Automorphisms** [510, 1656].
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[994]. **axially** [1650, 1777, 1032]. **Axiom** [1003]. **axiomatic**
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[1529]. **Baker** [1752]. **Balescu** [1115]. **Bargmann** [1664, 805]. **Barnes**
[1186, 546]. **barrier** [963]. **Baryon** [615]. **based** [1238]. **Bases**
[27, 28, 676, 817, 137, 677, 275]. **Basic** [1046]. **Basis** [769, 457, 995, 400, 1009,
2, 525, 628, 538, 261, 812, 566, 1234, 689, 1363, 1203, 1257, 633, 1106, 1200,
1438, 766, 224, 1410, 1642, 1643, 1685, 1686, 1278, 1503, 931, 539].
Basis-Dependent [457]. **Basis-Independent** [457]. **bcc** [561, 1015]. **Be**
[453, 255, 1539]. **beam** [1301, 1282, 1110]. **Behavior**
[944, 888, 802, 1619, 900, 563, 570, 1387, 987, 1390, 1723, 1258, 1729, 818, 1368].
Bel [1120]. **Bertocchi** [1464]. **Bertotti** [1768]. **Bessel** [460, 550]. **best**
[1264]. **Bethe** [635, 857, 152, 639, 1187, 90, 54, 500, 1055, 651, 656]. **between**
[1060, 89, 1702, 340, 1027, 731, 321, 484, 583, 1199, 16, 67, 1405, 1438, 523,

932, 189, 504, 1069, 15]. **biased** [562]. **Biaxial** [859]. **Biedenharn** [1333]. **Bifurcate** [454]. **bifurcation** [1199, 315]. **biharmonic** [1103]. **bilinear** [968]. **Binary** [590, 1592]. **binding** [371]. **binomial** [4, 282]. **binomial-coefficient** [282]. **biorthogonal** [1515]. **Birkhoff** [113]. **Bivector** [765]. **black** [691, 1673, 1577, 820, 870, 1334]. **Bloch** [991, 1458, 1745]. **Block** [291]. **bodies** [20]. **Body** [308, 490, 142, 767, 531, 86, 687, 276, 653, 332, 470, 471, 85, 778, 1123, 1654, 1784, 1170, 1212, 1678, 629, 467, 1666, 1155, 746, 1325, 1467, 1653]. **body-centered** [629, 467, 1666]. **Boltzmann** [1151, 29, 493, 509]. **Bonded** [394]. **Bondi** [1072]. **Born** [1033, 69, 1618]. **Bose** [1424, 669, 670, 1364, 1451, 622, 737, 665, 1766]. **Boson** [122, 1153, 1548, 1714, 696, 1405, 1318, 1196]. **boson-fermion** [1548]. **bosons** [559, 1588, 1257]. **both** [1408, 1474]. **Bound** [1014, 192, 798, 1387, 1123, 216, 756, 500, 1557, 996, 318, 1385, 1711, 727, 1078, 448, 844]. **Bound-State** [1014, 216]. **boundaries** [1640, 701, 846]. **Boundary** [586, 257, 374, 830, 459, 1248, 195, 190, 35, 713, 1637, 955, 1636, 686, 1478, 106, 923]. **boundary-initial** [713]. **Boundary-Value** [586, 257, 374, 35, 955, 106]. **Bounded** [761, 784, 1682, 1388]. **bounding** [1145]. **Bounds** [1443, 1738, 3, 577, 943, 770, 1076, 814, 1, 642, 314, 1670, 824, 825, 1403]. **Box** [809, 834, 162]. **bra** [1326]. **Bracket** [219]. **Brackets** [640]. **Branching** [183, 1216, 197, 908, 1465, 187, 409, 395]. **Brans** [551, 902, 1630]. **breakdown** [1671]. **Breaking** [230, 208, 960, 537, 1289]. **Breit** [135, 1515]. **Breit-system** [135]. **Brillouin** [1509]. **Broglie** [398, 650]. **Bronzan** [1111]. **Brownian** [1518]. **BS** [290]. **Bubble** [912]. **Bubble-Time** [912]. **Bulk** [3, 577].

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