

Author index

- Abate, J. A., 741
 —, Kimble, H. J. *and* Mandel, L., 719, Fig. 14.10
- Abella, I. D.,
 —, Kurnit, N. A. *and* Hartmann, S. R., 809, 813, Fig. 16.4
 Kurnit, N. A., — *and* Hartmann, S. R., 809, 812, 813
- Aboundadi, J.,
 Albano, A. M., —, Chyba, T. H., Searle, C. E., Yong, S., Gioggia, R. S., *and* Abraham, N. B., 972
- Abraham, N. B.,
 — *and* Smith, S. R., 1023
 Albano, A. M., Aboundadi, J., Chyba, T. H., Searle, C. E., Yong, S., Gioggia, R. S. *and* —, 972
- Bentley, J. *and* —, 971
 Gioggia, R. S. *and* —, 971
 Maeda, M. *and* —, 971
 Rockower, E. B., — *and* Smith, S. R., 1023
- Abramowitz, M. *and* Stegun, I. A., 999, 1050
- Abrikosova, I. I.,
 Derjaguin, B. V., — *and* Lifshitz, E. M., 509
- Acharya, R. *and* Sudarshan, E. C. G., 629
- Ackerhalt, J. R.,
 —, Knight, P. L. *and* Eberly, J. H., 511, 766
 —, Milonni, P. W. *and* Shih, M. L., 970, Fig. 18.35
 — *and* Milonni, P. W., 689, 691
 Milonni, P. W., Cook, R. J. *and* —, 689, 691
 Milonni, P. W. — *and* Smith, W. A., 511
- Ádám, A., Jánossy, L. *and* Varga, P., 713
- Agarwal, G. S., 782, 784, 849, 878, 880, 883
 — *and* Dattagupta, S., 993, 995
 — *and* Saxena, R., 791
 — *and* Tara, K., 1032
 —, Brown, A. C., Narducci, L. M. *and* Vetri, G., 841, 885
 —, Feng, D. H., Narducci, L. M., Gilmore, R. *and* Tuft, R. A., 885
 —, Friberg, A. T. *and* Wolf, E., 1099
 —, Ravi, S. *and* Cooper, J., 901
 — *and* Wolf, E., 108, 147, 214, 433, 559, 560, 579, 619
 —, Foley, J. T. *and* Wolf, E., 307
- Friberg, A. T., —, Foley, J. T. *and* Wolf, E., 307
- Narducci, L. M., Gilmore, R., Da Hsuan Feng *and* —, 829, 885
 Shenoy, S. R. *and* —, 1013
 Wolf, E. *and* —, 389
- Aharanov, Y.,
 Bohm, D. *and* —, 649, 651
- Aitken, A. C., 356
- Akimoto, O.,
 Ikeda, K., Daido, H. *and* —, 831
- Albano, A. M., Aboundadi, J., Chyba, T. H., Searle, C. E., Yong, S., Gioggia, R. S. *and* Abraham, N. B., 972
- Allen, L.,
 — *and* Eberly, J. H., 741, 743, 745, 752, 766
 —, Gatehouse, S. *and* Jones, D. G. C., 389
- Brown, Hanbury R., Davis, J. *and* —, 461, Fig. 9.9
- Alley, C. O.,
 Chang, R. F., Korenman, V., — *and* Detenbeck, R. W., 926, 929, Fig. 18.15
- Kiess, T. E., Shih, Y. H., Sergienko, A. V. *and* —, 655
 Shih, Y. H. *and* —, 655
- Amrein, W. O., 480, 630, 637
- Anderson, D. K.,
 Wessner, J. M., — *and* Robiscoe, R. T., 761, 774
- Antes, G.,
 Baltes, H. P., Steinle, B. *and* —, 244, 249, Fig. 5.10, 297
 —, Baltes, H. P. *and* Steinle, B., 245
- Arecchi, F. T., 727, Fig. 14.12
 — *and* Courtens, E., 848
 — *and* Degiorgio, V., 953
 —, Courtens, E., Gilmore, R. *and* Thomas, H., 852, 857, 858
 —, Degiorgio, V. *and* Querzola, B., 953
 —, Berné, A. *and* Burlamacchi, P., 921
 —, Gatti, E. *and* Sona, A., 448, 718
 —, Rodari, G. S. *and* Sona, A., 926
- Corti, M., Degiorgio, V. *and* —, 719, 958, Fig. 18.28
- Arimondo, E.,
 —, Lew, H. *and* Oka, T., 794, 796
 —, Phillips, W. D. *and* Strumia, F., 803

- Armstrong, J. A.,
 —, Bloembergen, N., Ducuing, J. and
 Pershan, P. S., 1070, 1073
 Grischkowsky, D., Courtens, E. and —, 754
 Smith, A. W. and —, 921, 926
 Aronwitz, F., 977
 Arrathoon, R.,
 Siegman, A. E. and —, 961
 Asaka, S.,
 Nakatsuka, H., —, Itoh, H., Ikeda, K. and
 Matsuoka, M., 832
 Asher, I. M. and Scully, M. O., Fig. 16.6
 Ashkin, A., 791, 795, 797, 799
 — and Gordon, J. P., 795, 799
 Bjorkholm, J. E., Freeman, R. R., — and
 Pearson, D. B., 791, 795
 Chu, S., Bjorkholm, J. E., — and Cable,
 A., 799
 Chu, S., Hollberg, L., Bjorkholm, J., Cable,
 A., and —, 801
 Gordon, J. P. and —, 797, 799
 Aspect, A.,
 —, Dalibard, J. and Roger, G., 655, Fig.
 12.11
 —, Grangier, J. and Roger, G., 655
 —, Dalibard, J., Heidmann, A., Salomon,
 C. and Cohen-Tannoudji, C., 799
 Grangier, P., Roger, G. and —, 720
 Grangier, P., Roger, G., —, Heidmann, A.
 and Reynaud, S., 720
 Salomon, C., Dalibard, J., —, Metcalf, H.
 and Cohen-Tannoudji, C., 795
 Baker, B. B. and Copson, E. T., 126
 Baker, H. F., 520
 Baklanov, E. V. and Dubetskii, B. Ya., 791
 Balachandran, A. P.,
 Mehta, C. L., Wolf, E. and —, 200
 Baltes, H. P., 249
 Antes, G. — and Steinle, B., 249
 — and Steinle, B., 244, 297
 —, Steinle, B. and Antes, G., 244, 249, Fig.
 5.10, 297
 Steinle, B. and —, 244
 Balykin, V. I., Letokhov, V. S. and Mushin,
 V. I., 795
 Bandilla, A., Paul, H. and Ritzl, H., 495
 Banos, A., 120
 Barakat, R., 362
 Bargmann, V., 522, 538
 Barnett, S. M.,
 — and Pegg, D. T., 495
 Pegg, D. T. and —, 495, 496
 Sanders, B. C., — and Knight, P. L., 495
 Bartolino, R.,
 Scudieri, F., Bertolotti, M. and —, 258
 Basov, N. G.,
 — and Prokhorov, A. M., 900
 —, Krokhin, O. N. and Popov, Yu. M., 611
 Bastiaans, M. J., 171
 Beard, T. D., 388
 Bédard, G., Chang, J. C. and Mandel, L.,
 732
 Bell, J. S., 648, 649, 651, 652
 Ben-Mizrachi, A., Procaccia, I. and Grassberger,
 P., 972
 Benedek, G. B., 418
 Ford, N. C. and —, 463
 Lastovak, J. B. and —, 464
 Bennett, W. R.,
 Javan, A., — and Herriott, D. R., 900
 Bentley, J. and Abraham, N. B., 971
 Beran, M. J., 45
 — and Parrent, G., 367
 Berman, P. R.,
 Lam, J. F. and —, 791
 Bermejo, F. J.,
 Garcia-Fernandez, P., Sainz de los Terreros,
 L., — and Santoro, J., 1066
 Berne, B. J. and Pecora, R., 401
 Berné, A.,
 Arecchi, F. T., — and Burlamacchi, P., 921
 Bernhardt, A. F.,
 Cook, R. J. and —, 791, 795, 796
 Bertolotti, M.,
 —, Daino, B., Gori, F. and Sette, D., 394
 Carter, W. H. and —, 258
 Crosignani, B., Di Porto, P. and —, 401, 718
 Scudieri, F., — and Bartolino, R., 258
 Beth, R. A., 491
 Bialynicki-Birula, I., 480
 Bethe, H. A., 510, 771
 Bigelow, N. P. and Prentiss, M. G., 796
 Bjorkholm, J. E.,
 Chu, S., —, Ashkin, A. and Cable, A., 799
 Chu, S., Hollberg, L., —, Cable, A. and
 Ashkin, A., 801
 Chu, S., Prentiss, M. G., Cable, A. E. and
 —, 803
 —, Freeman, R. R., Ashkin, A. and
 Pearson, D. B., 791, 795
 Bjorklund, G. C.,
 Bloom, D. M. and —, 1093
 Blanc-Lapierre, A. and Dumontet, P., 147
 Bloch, F., 742, 746, 751
 Bloembergen, N., 584, 611, 1069
 —, Armstrong, J. A., —, Ducuing, J. and
 Pershan, P. S., 1071, 1073
 Bloom, D. M. and Bjorklund, G. C., 1093
 Bochner, S., 18
 Bocko, M., Douglass, D. H. and Knox, R. S.,
 312, Fig. 5.35, Fig. 5.36
 Bohm, D., 648, 649
 — and Aharanov, Y., 649, 651
 Bohr, N., 648
 Bonifacio, R.,
 — and Lugiato, L. A., 824, 829, 847
 —, Schwendimann, P. and Haake, F., 843, 885
 Boon, J. P.,
 Fleury, P. A. and —, Fig. 7.10
 Born, M. and Wolf, E., 132, 147, 154, 157, 161,
 167, 179, 187, 190, 191, 271, 288, 351, 355,
 397, 402, 639, 767, 808
 Bothe, W., 159
 Bourret, R. C., 367, 668
 Bowden, C. M. and Sung, C. C., 829
 Boyd, G. D. and Gordon, J. P., 389, 390, 394,
 902, 905, 906
 Boyd, R. W., 584, 1069, 1073
 —, Habashy, T. M., Jacobs, A. A., Mandel,
 L., Nieto-Vesperinas, M., Tompkin, W. R.
 and Wolf, E., 1099, Fig. 22.15, Fig. 22.16

- Boyer, T. H., 761
 Bracewell, R. N., 632
 Braginsky, V. B. *and* Khalil, F. Y., 1100
 Brannen, E.,
 — *and* Ferguson, H. I. S., 713
 —, Ferguson, H. I. S. *and* Wehlau, W., 713
 Braun, G., 131
 Breckinridge, J. B., 380, 381
 Bremerman, H., 57, 549
 Brewer, R. G. *and* Shoemaker, R. L., 808, Fig. 16.1
 Bridges, T. J.,
 Rigrod, W. W. *and* —, 1013
 Brillouin, L., 415
 Brown, A. C.,
 Agarwal, G. S., —, Narducci, L. M. *and* Vetri, G., 841, 885
 Brown, Hanbury R., 461
 — *and* Twiss, R. Q., 157, 448, 452, 457, 458, Fig. 9.6, 461, Fig. 9.7, Fig. 9.8, 708
 —, Davis, J. *and* Allen, L. R., 461, Fig. 9.9
 Twiss, R. Q., Little, A. G. *and* —, 448, 713
 Bulabojs, J.,
 Courjon, D. *and* —, 259
 Courjon, D., — *and* Carter, W. H., 259
 Dechamps, J., Courjon, D. *and* —, 259
 Buley, E. R. *and* Cummings, F. W., 965
 Bures, J., Delisle, C. *and* Zardecki, A., 733
 Burge, R. E., Fiddy, M. A., Greenaway, A. H. *and* Ross, G., 385
 Burlamacchi, P.,
 Arecchi, F. T., Berné, A. *and* —, 921
 Burnham, D. C. *and* Weinberg, D. L., 1074, 1084
 Butcher, P. N. *and* Cotter, D., 1069
 Byer, R. L.,
 S. E. Harris, M. K. Oshman *and* —, 1136
 Cable, A.,
 Chu, S., Bjorkholm, J. E., Ashkin, A. *and* —, 799
 Chu, S., Hollberg, L., Bjorkholm, J., — *and* Ashkin, A., 801
 Chu, S., Prentiss, M. G., — *and* Bjorkholm, J. E., 803
 Prentiss, M. *and* —, 799
 Raab, E. L., Prentiss, M., —, Chus, S. *and* Pritchard, D. E., 800
 Cahill, K. E., 535
 — *and* Glauber, R. J., 559, 619
 Callen, H. B. *and* Welton, T. A., 867, 870
 Campbell, J. E., 519
 Campos, R. A., Saleh, B. E. A. *and* Teich, M. C., 640
 Cantrell, C. D.,
 — *and* Smith, W. A., 964
 —, Lax, M. *and* Smith, W. A., 964, Fig. 18.33
 Carmichael, H. J.,
 — *and* Walls, D. F., 738, 787, 885
 Walls, D. F., Drummond, P. D., Hassan, S. S. *and* —, 829
 Carruthers, P. *and* Nieto, M. M., 492, 494
 Carter, S. L. *and* Kelley, H. P., 690
 Carter, W. H., 249
 — *and* Bertolotti, M., 258
 — *and* Wolf, E., 65, Fig. 5.3, 239, Fig. 5.5, 243, Fig. 5.8, 249, 297
 Courjon, D., Bulabojs, J. *and* —, 259
 Wolf, E. *and* —, 65, 171, 239, 299, Fig. 5.26
 Carusotto, S., 1023
 Casimir, H. B. G., 509
 — *and* Polder, D., 509
 Casperson, L. W., 915, 971
 Caves, C. M., 1022, 1034, 1036, 1038, 1042
 — *and* Schumaker, B. L., 1034, 1036, 1038, 1056
 —, Thorne, K. S., Drever, R. W. P., Sandberg, V. D. *and* Zimmerman, M., 1100
 Schumaker, B. L. *and* —, 1034, 1036, 1038, 1056
 Chako, N., 134
 Chan, V. W. S.,
 Yuen, H. P. *and* —, 1054, 1056
 Chander, M.,
 Kandpal, H. C., Vaishya, J. S., —, Saxena, K., Mehta, D. S. *and* Joshi, K. C., 318
 Chandrasekhar, S., 287, 302
 Chang, J. C.,
 Bédard, G., — *and* Mandel, L., 732
 Chang, R. F., Korenman, V., Alley, C. O. *and* Detenbeck, R. W., 926, 929, Fig. 18.15
 Chapman, S., 72
 Chiao, R. Y.,
 Kwiat, P. G., Steinberg, A. M. *and* —, 1083
 Chopra, S. *and* Mandel, L., 719, 958, 964
 Christian, W. R.,
 Chyba, T. H., —, Gage, E., Lett, P. *and* Mandel, L., 972
 Lett, P., —, Singh, S. *and* Mandel, L., Fig. 19.12, 1001, Fig. 19.18
 Chu, B., 401, 718
 Chu, S.,
 —, Bjorkholm, J. E., Ashkin, A. *and* Cable, A., 799
 —, Hollberg, L., Bjorkholm, J., Cable, A. *and* Ashkin, A., 801
 —, Prentiss, M. G., Cable, A. E. *and* Bjorkholm, J. E., 803
 Raab, E. L., Prentiss, M., Cable, A., — *and* Pritchard, D. E., 800
 Ungar, P. J., Weiss, D. S., Riis, E. *and* —, 803
 Weiss, D. S., Riis, E., Shevy, Y., Ungar, P. J. *and* —, 802
 Chyba, T. H., Fig. 18.37
 Albano, A. M., Aboundadi, J., —, Searle, C. E., Yong, S., Gioggia, R. S. *and* Abraham, N. B., 972
 —, Christian, W. R., Gage, E., Lett, P. *and* Mandel, L., 972
 Clauser, J. F., 648, 649, 651, 653, 655
 — *and* Horne, M. A., 648, 649, 651, 653, 654
 — *and* Shimony, A., 648, 649, 651
 —, Horne, M. A., Shimony, A. *and* Holt, R. A., 648, 649, 651
 Freedman, S. J. *and* —, 655, 761
 Cohen-Tannoudji, C., 791
 Aspect, A., Dalibard, J., Heidmann, A., Salomon, C. *and* —, 799
 — *and* Phillips, W. D., 803
 —, Diu, B. *and* Laloe, F., 440
 Dalibard, J., Dupont-Roc, J. *and* —, 511

- Cohen-Tannoudji, C., (*cont.*)
 Dalibard, J. *and* —, 799, 803
 Heidmann, A., Reynaud, S. *and* —, 1056
 Salomon, C., Dalibard, J., Aspect, A.,
 Metcalf, H. *and* —, 795
 Collett, E.,
 — *and* Wolf, E., 251
 Farina, J. D., Narducci, L. M. *and* —, 258,
 286, Fig. 5.24
 Wolf, E. *and* —, Fig. 5.12
 Collett, M. J.,
 — *and* Gardiner, C. W., 1054, 1056
 — *and* Walls, D. F., 1054, 1056
 —, Walls, D. F. *and* Zoller, P., 1056, 1063
 Gardiner, C. W. *and* —, 1057
 Connes, J., 388, Fig. 7.5
 Cook, R. J., 630, 738, 795, 797, 798, Fig. 15.15
 — *and* Bernhardt, A. F., 791, 795, 796
 Milonni, P. W., — *and* Ackerhalt, J. R.,
 689, 691
 Cooper, J.,
 Agarwal, G. S., Ravi, S. *and* —, Fig. 18.2
 Cooper, M.,
 Weiss, C. O., Klishche, W., Ering, P. S. *and*
 —, 970, Fig. 18.36
 Copson, E. T., 94, 95, 131
 Baker, B. B. *and* —, 126
 Corti, M.,
 — *and* Degiorgio, V., 719, Fig. 18.11, 964,
 Fig. 18.34
 — Degiorgio, V. *and* Arecchi, F. T., 719,
 958, Fig. 18.28
 Cotter, D.,
 Butcher, P. N. *and* —, 1069
 Courant, R. *and* Hilbert, D., 123
 Courjon, D.,
 — *and* Bulabois, J., 259
 — Bulabois, J. *and* Carter, W. H., 259
 Dechamps, J., — *and* Bulabois, J., 259
 Courtens, E.,
 Arecchi, F. T. *and* —, 848
 Arecchi, F. T., —, Gilmore, R. *and*
 Thomas, H., 852, 857, 858
 Grischkowsky, D., — *and* Armstrong, J. A.,
 754
 Cresser, J. D., Häger, J., Leuchs, G., Rateike,
 M. *and* Walther, H., 720
 Crisp, M. D. *and* Jaynes, E. T., 761
 Crosignani, B., Di Porto, P. *and* Bertolotti, M.,
 401, 718
 Cummings, F. W.,
 Buley, E. R. *and* —, 965
 Jaynes, E. T. *and* —, 761
 Cummins, H. Z., 401
 —, Knable, N. *and* Yeh, Y., 463
 — *and* Pike, E. R., 718
 — *and* Swinney, H. L., 401, 464, 718
 Currie, D. G.,
 Klauder, J. R., McKenna, J. *and* —, 540,
 543
 d’Espagnat, B., 648
 Da Hsuan Feng,
 Narducci, L. M., Gilmore, R., — *and*
 Agarwal, G. S., 829, 885
 Dagenais, M.,
 — *and* Mandel, L., 720, Fig. 14.11, 755, Fig.
 15.3, 787, Fig. 15.11, Fig. 15.12
 Kimble, H. J., — *and* Mandel, L., 720, 787
 Daido, H.,
 Ikeda, K., — *and* Akimoto, O., 831
 Daino, B.,
 Bertolotti, M., —, Gori, F. *and* Sette, D.,
 394
 Siegman, A. E., — *and* Manes, K. R., 961
 Dainty, J. C., 380
 Dalibard, J.,
 Aspect, A. — *and* Roger, G., 655, Fig.
 12.11
 Aspect, A., —, Heidmann, A., Salomon, C.
and Cohen-Tannoudji, C., 799
 — *and* Cohen-Tannoudji, C., 799, 803
 —, Dupont-Roc, J. *and* Cohen-Tannoudji,
 C., 511
 —, Raimond, J. M. *and* Zinn-Justin, J., 803
 Salomon, C., —, Aspect, A., Metcalf, H.
and Cohen-Tannoudji, C., 795
 Daneu, V.,
 Szöke, A., —, Goldhar, J. *and* Kurnit,
 N. A., 822
 Dattagupta, S.,
 Agarwal, G. S. *and* —, 993, 995
 Davenport, W. B., Jr. *and* Root, W. L., 61, 106
 Davidson, F., 716, 722, 964
 — *and* Mandel, L., 716, Fig. 14.7, 718, 719,
 722, 926, Fig. 18.12, 964
 Davis, J.,
 — *and* Tango, W. J., 380
 Brown, Hanbury R., — *and* Allen, L. R.,
 461, Fig. 9.9
 Davis, R. C., 65
 Davis, S. P.,
 Phillips, D. T., Kleiman, H. *and* —, 716,
 717, Fig. 14.8
 Srinivas, M. D. *and* —, 726
 Davis, W.,
 Meltzer, D., — *and* Mandel, L., 921, Fig.
 18.8
 Debye, P., 415
 Dechamps, J., Courjon, D. *and* Bulabois, J., 259
 Degiorgio, V.,
 Arecchi, F. T. *and* —, 953
 Arecchi, F. T., — *and* Querzola, B., 953
 Corti, M. *and* —, 719, Fig. 18.11, 964, Fig.
 18.34
 Corti, M., — *and* Arecchi, F. T., 719, 958,
 Fig. 18.28
 — *and* Scully, M., 913, 914
 Dehmelt, H.,
 Wineland, D. *and* —, 799
 Delisle, C.,
 Bures, J., — *and* Zardecki, A., 733
 Zardecki, A. *and* —, 733
 DeMaria, A. J.,
 Treacy, E. B. *and* —, 754
 Dennery, P. *and* Krzywicki, A., 131
 Derjaguin, B. V., Abrikosova, I. I. *and* Lifshitz,
 E. M., 509
 DeSantis, P.,
 —, Gori, F., Guattari, G. *and* Palma, C.,
 256, Fig. 5.13, Fig. 5.14, Fig. 5.15

- DeSantis, P., (*cont.*)
 —, Gori, F. *and* Palma, C., 256
 Detenbeck, R. W.,
 Chang, R. F., Korenman, V., Alley, C. O. *and*
 —, 926, 929, Fig. 18.15
 Devaney, A. J.,
 Wolf, E. *and* —, 213
 Wolf, E., — *and* Foley, J. T., 211
 Wolf, E., — *and* Gori, F., 213
 Di Porto, P.,
 Crosignani, B. — *and* Bertolotti, M., 401,
 718
 Dialetis, D., 384
 — *and* Wolf, E., 384
 — *and* Mehta, C. L., 602
 Dicke, R. H., 743, 835, 839, 850
 — *and* Wittke, J. P., 835
 DiPorto, P.,
 Crosignani, B., — *and* Bertolotti, M., 401,
 718
 Dirac, P. A. M., 474, 492
 Diu, B.,
 Cohen-Tannoudji, C. — *and* Laloë, F., 440
 Doss, H. M.,
 Narducci, L. M., —, Ru, P., Scully, M.O.,
 Zhu, S. Y. *and* Keitel, C., 901
 Douglass, D. H.,
 Bocko, M., — *and* Knox, R. S., 312, Fig.
 5.35, Fig. 5.36
 Drever, R. W. P.,
 Caves, C. M., Thorne, K. S., —, Sandberg,
 V. D. *and* Zimmerman, M., 1100
 Drexhage, K. H., 841
 Drummond, P. D., 1070
 Friberg, A. T. *and* —, 640
 Walls, D. F., —, Hassan, S. S. *and*
 Carmichael, H. J., 829
 Dubetskii, B. Ya.,
 Baklanov, E. V. *and* —, 791
 Ducuing, J.,
 Armstrong, J. A., Bloembergen, N., — *and*
 Pershan, P. S., 1071, 1073
 Dugundji, J., 101
 Dumontet, P.,
 Blanc-Lapierre, A. *and* —, 147
 Dupont-Roc, J.,
 Dalibard, J., — *and* Cohen-Tannoudji, C.,
 511
 Durmin, J.,
 Roy, R., Short, R., — *and* Mandel, L.,
 1017, Fig. 19.24, 1018, Fig. 19.25
 Eberly, J. H., 784, 849
 Ackerhalt, J. R., Knight, P. L. *and* —, 511,
 766
 Allen, L. *and* —, 741, 743, 745, 752, 766
 — *and* Kujawski, A., 602
 Milonni, P. W. *and* —, 903
 Rehler, N. E. *and* —, 843, 848
 Stroud, Jr., C. R., —, Lama, W. L. *and*
 Mandel, L., 848, 849
 Wodkiewicz, K. *and* —, 766
 Einstein, A., 59, 65, 84, 88, 159, 414, 415, 439,
 626, 736, 867
 — *and* Hopf, L., 65
 —, Podolsky, B. *and* Rosen, N., 648, 1082
 Eisenhart, L. P., 135
 Erdelyi, A., 121, 131
 Ering, P. S.,
 Weiss, C. O., Klishche, W., — *and* Cooper,
 M., 970, Fig. 18.36
 Ezekiel, S.,
 Wu, F. Y., Grove, R. E. *and* —, 755, Fig.
 15.10
 Fabelinskii, I. L., 415
 Fabre, C.,
 Gross, M., —, Pillet, P. *and* Haroche, S.,
 846
 Raimond, J. M., Goy, P., Gross, M., — *and*
 Haroche, S., 847
 Faklis, D.,
 — *and* Morris, G. M., 316
 Morris, G. M. *and* —, 331, Fig. 5.50, Fig.
 5.51
 Fan, H. Y., 1034
 —, Zaidi, H. R. *and* Klauder, J. R., 1034
 Farina, J. D.,
 —, Narducci, L. M. *and* Collett, E., 258,
 286, Fig. 5.24
 Narducci, L. M. *and* —, Fig. 5.16
 Fearn, H.,
 — *and* Loudon, R., 640
 Feigenbaum, M. J., 971
 Feld, M. S.,
 Skribanowitz, N., Herman, I. P.,
 MacGillivray, J. C. *and* —, 846
 Fellgett, P., 388
 Feng, D. H.,
 Agarwal, G. S., —, Narducci, L. M.,
 Gillmore, R. *and* Tuft, R. A., 885
 Narducci, L. M., Gilmore, R., — *and*
 Agarwal, G. S., 885
 Ferguson, H. I. S.,
 Brannen, E. *and* —, 713
 Brannen, E., — *and* Wehlauf, W., 713
 Ferwerda, H. A., 388
 Feshbach, H.,
 Morse, P. M. *and* —, 84, 95, 391
 Feynman, R. P., Vernon, F. L., Jr. *and*
 Hellwarth, R. W., 751
 Fiddy, M. A.,
 Burge, R. E., —, Greenaway, A. H. *and*
 Ross, G., 385
 Fienup, J. R.,
 Wolf, E. *and* —, 323
 Fisher, I. Z.,
 Komarov, L. *and* —, 412
 Fisher, R. A., 1098
 —, Nieto, M. M. *and* Sandberg, V. D.,
 1038, 1042
 Fleury, P. A. *and* Boon, J. P., Fig. 7.10
 Flusberg, A., Mossberg, T. *and* Hartmann,
 S. R., 846
 Focke, J., 131, 133, 134
 Foley, J. T., 323, Fig. 5.43, Fig. 5.44
 Agarwal, G. S., — *and* Wolf, E., 307
 — *and* Wolf, E., 303, Fig. 5.30, 332, 411,
 418

- Foley, J. T., (*cont.*)
 Friberg, A. T., Agarwal, G. S., — and Wolf, E., 307
 — and Zubairy, M. S., Fig. 5.22, Fig. 5.23
 Wolf, E., Devaney, A. J. and —, 211
 Wolf, E. and —, 399, 406, 407
 Wolf, E., — and Gori, F., 335, 337, 413
 Ford, N. C. and Benedek, G. B., 463
 Forster, D., 411
 Fougères, A.,
 Noh, J. W., — and Mandel, L., 495, 497,
 Fig. 10.1, Fig. 10.2, 499, Fig. 10.3, Fig. 10.4
 Fox, A. G. and Li, T., 389, 394, 902, 905, 906
 Franken, P. A., Hill, A. E., Peters, C. W. and
 Weinreich, G., 1069, 1070
 Freed, C. and Haus, H. A., 921, 926
 Freedman, S. J.,
 — and Clauser, J. F., 655, 761, 795
 Freeman, R. R.,
 Bjorkholm, J. E., —, Ashkin, A. and
 Pearson, D. B., 791
 Friberg, A. T., 294, 295, 297
 Agarwal, G. S., — and Wolf, E., 1099
 —, Agarwal, G. S., Foley, J. T. and Wolf,
 E., 307
 —, Hong, C. K. and Mandel, L., Fig. 22.2,
 1084
 — and Sudol, R. J., 280
 — and Drummond, P. D., 640
 — and Turunen, J., 395
 — and Wolf, E., 172, 285, 406, 408
 Tervonen, E., — and Turunen, J., 259
 Turunen, J., Tervonen, E. and —, 259
 Friberg, S.,
 — and Mandel, L., 1022, 1025, 1030, Fig.
 20.2, 1053, 1056
 Hong, C. K., — and Mandel, L., 1022, 1030
 Singh, S., — and Mandel, L., 958, Fig. 18.29
 Fried, Z., 690
 Friedberg, R. and Hartmann, S. R., 847
 Frisch, R., 794
 Fry, E. S. and Thompson, R. C., 655
 Fürth, R., 159, 736

 Gabor, D., 93, 118
 Gage, E.,
 Chyba, T. H., Christian, W. R., —, Lett, P.
 and Mandel, L., 972
 Gamliel, A., 312
 — and Wolf, E., 312
 Gamo, H., 386, 388, 719
 Garcia-Fernandez, P., Sainz de los Terreros, L.,
 Bermejo, F. J. and Santoro, J., 1066
 Gardiner, C. W.,
 Collett, M. J. and —, 1054, 1056
 — and Collett, M. J., 1056
 — and Savage, C. M., 1054, 1056
 Gatehouse, S.,
 Allen, L., — and Jones, D. G. C., 389
 Gatti, E.,
 Arecchi, F. T., — and Sona, A., 448, 718
 Gavrielides, A.,
 Scully, M. O., Zhu, S. Y. and —, 901
 Gerhardt, H., Welling, H. and Güttner, A., 961
 Gericke, K. H.,
 Güttner, A., Welling, H., — and Seifert,
 W., 961, Fig. 18.31, Fig. 18.32
 Ghilmetti, F., 623
 Gibbs, H. M., 761, 774
 — and Venkatesan, T. N. C., 784
 —, McCall, S. L. and Venkatesan, T. N. C.,
 822, 824, 831, Fig. 16.13
 —, Vreken, Q. H. F. and Hiksloops, H. M.
 J., 847, Fig. 16.20, 850
 —, Hopf, F. A., Kaplan, D. L. and
 Shoemaker, R. L., 832
 Slusher, R. E. and —, 820, Fig. 16.8
 Gilmore, R.,
 Agarwal, G. S., Feng, D. H., Narducci, L. M.,
 — and Tuft, R. A., 855
 Arecchi, F. T., Courtens, E., — and
 Thomas, H., 852, 857, 858
 Narducci, L. M., —, Da Hsuan Feng and
 Agarwal, G. S., 829, 885
 Gioggia, R. S.,
 — and Abraham, N. B., 971, 972
 Albano, A. M., Aboundadi, J., Chyba, T. H.,
 Searle, C. E., Yong, S., — and Abraham,
 N. B., 972
 Giordmaine, J. A., 1073
 Giuliano, C. R., 1099, Fig. 22.17
 Glauber, R. J., 409, 522, 525, 526, 540, 541, 555,
 556, 568, 573, 574, 585, 590, 591, 703, 705,
 722, 726, 1022, 1042
 Cahill, K. E. and —, 559, 619
 Haake, F., Haus, J., King, H., Schröder, G.
 and —, 850
 Haake, F., King, H., Schröder, G., Haus, J.
 and —, 850
 Mollow, B. R. and —, 1074
 Titulaer, U. M. and —, 592, 593, 596, 599,
 601
 Glogower, J.,
 Susskind, L. and —, 492, 494
 Godone, A.,
 Weiss, C. O., — and Olafsson, A., 971
 Goldberg, R. R., 17, 18, 214
 Goldhar, J.,
 Szöke, A., Daneu, V., — and Kurnit,
 N. A., 822
 Goldman, S., 59
 Goodman, J. W., 117, 243
 Gordon, J. P.,
 Ashkin, A. and —, 795, 799
 Boyd, G. D. and —, 389, 390, 394, 902, 905,
 906
 —, Zeiger, H. J. and Townes, C. H., 900
 — and Ashkin, A., 797, 799
 Gori, F., 256, 261, 262, 267, 281, 389
 Bertolotti, M., Daino, B., — and Sette, D.,
 394
 De Santis, P., — and Palma, C., 256
 De Santis, P., —, Guattari, G. and Palma,
 C., 256, Fig. 5.13, Fig. 5.14, Fig. 5.15
 —, Guattari, G., Palma, C. and Padovani,
 C., 315, Fig. 5.37, Fig. 5.38
 — and Palma, C., 256
 Santarsiero, M. and —, 318
 Wolf, E., Devaney, A. J. and —, 213
 Wolf, E., Foley, J. T. and —, 335, 337, 413
 Gottfried, K., 488

- Gould, P. L.,
 Lett, P. D., Watts, R. N., Westbrook, C. I.,
 Phillips, W. D., — *and* Metcalf, H. J., 802
 Martin, P. J., —, Oldaker, B. G., Miklich,
 A. H. *and* Pritchard, D. E., 796
 Phillips, W. D., — *and* Lett, P. D., Fig.
 15.17
 Westbrook, C. I., Watts, R. N., Tanner,
 C. E., Rolston, S. L., Phillips, W. D., Lett,
 P. D. *and* —, 796
- Goy, P.,
 Raimond, J. M., —, Gross, M., Fabre, C.
and Haroche, S., 847
- Gradshteyn, I. S. *and* Ryzhik, I. M., 132, 248,
 266, 1005
- Graham, R., 913, 914, 915, 989, 1075, 1078
 — *and* Haken, H., 913, 1019
- Grangier, J.,
 Aspect, A., — *and* Roger, G., 655
- Grangier, P.,
 —, Roger, G. *and* Aspect, A., 720
 —, Roger, G. Aspect, A., Heidmann, A.
and Reynaud, S., 720
- Grassberger, P.,
 Ben-Mizrachi, A., — *and* Procaccia, I., 972
 — *and* Procaccia, I., 972
- Greenaway, A. H.,
 Burge, R. E., Fiddy, M. A., — *and* Ross,
 G., 385
- Grischkowsky, D., 754
 —, Courtens, E. *and* Armstrong, J. A., 754
- Gross, E., 415
- Gross, M.,
 —, Fabre, C., Pillet, P. *and* Haroche, S.,
 846
 Raimond, J. M., Goy, P., —, Fabre, C. *and*
 Haroche, S., 847
- Grossmann, S. *and* Richter, P. H., 984
- Grove, R. E.,
 Wu, F. Y., — *and* Ezekiel, S., 755, Fig.
 15.10
- Guattari, G.,
 De Santis, P., Gori, F., — *and* Palma, C.,
 256, Fig. 5.13, Fig. 5.14, Fig. 5.15
 Gori, F., —, Palma, C. *and* Padovani, C.,
 315, Fig. 5.37, Fig. 5.38
- Guttmann, M. J.,
 Simmons, J. W. *and* —, 491, 610
- Güttner, A.,
 Gerhardt, H., Welling, H. *and* —, 961
 —, Welling, H., Gericke, K. H. *and* Seifert,
 W., 961, Fig. 18.31, Fig. 18.32
- Haake, F.,
 Bonifacio, R., Schwendimann, P. *and* —,
 843, 885
 —, Haus, J., King, H., Schröder, G. *and*
 Glauber, R. J., 850
 —, King, H., Schröder, G., Haus, J. *and*
 Glauber, R. J., 850
 Weidlich, W. *and* —, 888, 890
- Habashy, T. M.,
 Boyd, R. W., —, Jacobs, A. A., Mandel,
 L., Nieto-Vesperinas, M., Tompkin,
 W. R. *and* Wolf, E., 1099, Fig. 22.15,
 Fig. 22.16
- Häger, J.,
 —, Cresser, J. D., —, Leuchs, G.,
 Rateike, M. *and* Walther, H., 720
- Hahn, E. L., 808, 809
 McCall, S. L. *and* —, 760, Fig. 15.7, 761,
 814, 817, 818, Fig. 16.5, 820, Fig. 16.7
- Haken, H., 888, 890, 903, 913, 914, 915, 923,
 930, 936, 965, 989
 Graham, R. *and* —, 913, 1019
 — *and* Ohno, H., 915
 — *and* Sauer mann, H., 903, 930
- Hall, J.,
 Wu, L. A., Kimble, H. J., — *and* Wu, H.,
 1054, Fig. 21.6
- Haller, K., 691
- Halliday, D. *and* Resnick, R., Fig. 13.1
- Hambenne, J. B. *and* Sargent, M., III., 994
- Hänsch, T. W. *and* Schawlow, A. L., 799, 800
- Happer, W.,
 Tam, A. C. *and* —, 799
- Haroche, S.,
 Gross, M., Fabre, C., Pillet, P. *and* —, 846
 Raimond, J. M., Goy, P., Gross, M., Fabre,
 C. *and* —, 847
- Harris, S. E., 901
 Iamamoglu, A. *and* —, 901
 —, Oshman, M. K. *and* Byer, R. L., 1136
- Hartig, W., Rasmussen, W., Schieder, R. *and*
 Walther, H., 755
- Hartmann, S. R.,
 Abella, I. D., Kurnit, N. A. *and* —, 809,
 813, Fig. 16.4
 Flusberg, A., Mossberg, T. *and* —, 846
 Friedberg, R. *and* —, 847
 Kurnit, N. A., Abella, I. D. *and* —, 809, 812
- Hassan, S. S.,
 Walls, D. F., Drummond, P. D., — *and*
 Carmichael, H. J., 829
- Haus, H. A.,
 Freed, C. *and* —, 921, 926
 Haake, F., —, King, H., Schröder, G. *and*
 Glauber, R. J., 850
 Haake, F., King, H., Schröder, G., — *and*
 Glauber, R. J., 850
 Imoto, N., — *and* Yamamoto, Y., 1100,
 1102
 Kärtner, F. X. *and* —, 1103
- Hausdorff, F., 520
- Healy, W. P., 520, 691
- Hegerfeldt, G. C., 638
 — *and* Ruijsenaar, S. N. M., 638
- Heidmann, A.,
 Aspect, A., Dalibard, J., —, Salomon, C.
and Cohen-Tannoudji, C., 799
 Grangier, P., Roger, G., Aspect, A., — *and*
 Reynaud, S., 720
 —, Reynaud, S. *and* Cohen-Tannoudji, C.,
 1056
- Heiniger, F., Herden, A. *and* Tschudi, T., 173
- Heitler, W., 96, 224, 474, 492, 501, 817
- Hellwarth, R. W., 1093
 Feynman, R. P., Vernon, F. L., Jr. *and* —,
 751
 Jensen, S. M. *and* —, 1094
- Hempstead, R. D. *and* Lax, M., 916, 924, 946,
 948, 957

- Hercher, M.,
 Schuda, F., — *and* Stroud, C. R., Jr., 761
 Schuda, F., Stroud, C. R., Jr. *and* —, 755,
 Fig. 15.4, 784
- Herden, A.,
 Heiniger, F., — *and* Tschudi, T., 173
- Herman, I. P.,
 Skribanowitz, N., —, MacGillivray, J. C.
and Feld, M. S., 846
- Herriott, D. R.,
 Javan, A., Bennett, W. R. *and* —, 900
- Hikspoors, H. M. J.,
 Gibbs, H. M., Vrehen, Q. H. F. *and* —,
 847, Fig. 16.20, 850
- Hilbert, D.,
 Courant, R. *and* —, 123
- Hill, A. E.,
 Franken, P. A., —, Peters, C. W. *and*
 Weinreich, G., 1069, 1070
- Hill, R. N.,
 Margenau, H. *and* —, 296
- Hillery, M., 625, 1067
 — *and* Mlodinow, L. D., 1070
- Hioe, F. T.,
 — *and* Singh, S., 1002, 1012
 —, Singh, S. *and* Mandel, L., 1002
- Hollberg, L. W.,
 Chu, S., —, Bjorkholm, J., Cable, A. *and*
 Ashkin, A., 801
 Slusher, R. E., —, Yurke, B., Mertz, J. C.
and Valley, J. F., 1054, Fig. 21.5, 1064, 1098
- Hollenhorst, J. N., 1038
- Holt, R. A.,
 Clauser, J. F., Horne, M. A., Shimony, A.
and —, 648, 649, 651
- Hong, C. K.,
 Friberg, A. T., — *and* Mandel, L., Fig. 22.2,
 1084
 — *and* Mandel, L., 738, 1065, 1078, Fig.
 22.3
 —, Friberg, S. *and* Mandel, L., 1022, 1030
 —, Ou, Z. Y. *and* Mandel, L., 646, 1084,
 1086, Fig. 22.5, Fig. 22.6
 Mandel, L. *and* —, 1067
 Ou, Z. Y., — *and* Mandel, L., 640, 644,
 1057, 1058, 1063, 1064, Fig. 21.8, Fig. 21.9
- Hopf, E., 287, 302
- Hopf, F. A.,
 Gibbs, H. M., —, Kaplan, D. L. *and*
 Shoemaker, R. L., 832
- Hopf, L.,
 Einstein, A. *and* —, 65
- Hopkins, H. H., 147
- Horne, M. A.,
 Clauser, J. F. *and* —, 648, 649, 651, 653,
 654
 Clauser, J. F., —, Shimony, A. *and* Holt,
 R. A., 648, 649, 651
- Horowicz, R. J.,
 Schleich, W., — *and* Varro, S., 495
- Hurwitz, H., 678
 — *and* Jones, R. C., 355
- Iamamoglu, A., 901
 — *and* Harris, S. E., 901
- Ikeda, K., 831
 —, Daido, H. *and* Akimoto, O., 831
 Nakatsuka, H., Asaka, S., Itoh, H., — *and*
 Matsuoka, M., 832
- Imai, Y.,
 — *and* Ohtsuka, Y., 259
 Ohtsuka, Y. *and* —, 259
- Imoto, N., Haus, H. A. *and* Yamamoto, Y.,
 1100, 1102
- Imre, K., Özizmir, E., Rosenbaum, M. *and*
 Zweifel, P. F., 296
- Indebetouw, G., 324, Fig. 5.45, Fig. 5.46, Fig.
 5.47
- Irshid, M. I.,
 Saleh, A. E. *and* —, 251
- Itoh, H.,
 Nakatsuka, H., Asaka, S., —, Ikeda, K. *and*
 Matsuoka, M., 832
- Jackson, J. D., 488
- Jacobs, A. A.,
 Boyd, R. W., Habashy, T. M., —, Mandel,
 L., Nieto-Vesperinas, M., Tompkin, W. R.
and Wolf, E., 1099, Fig. 22.15, Fig. 22.16
- Jacquinet, P., 388
- Jain, R. K. *and* Lind, R. C., 1101
- Jakeman, E., 719
 — *and* Pike, E. R., 719
 Rarity, J. G., Tapster, P. R. *and* —, 738
 Walker, J. G. *and* —, 720
- James, D. F. V., Fig. 16.16
 —, Kandpal, H. C. *and* Wolf, E., 173
 —, Savedoff, M. P. *and* Wolf, E., 327, 411
 — *and* Wolf, E., 317, Fig. 5.39, 318, Fig.
 5.40, 327, 411, Fig. 7.9
- Jauch, J. M. *and* Piron, C., 630
- Javan, A., Bennett, W. R. *and* Herriott, D. R.,
 900
- Jaynes, E. T., 761
 Crisp, M. D. *and* —, 761
 — *and* Cummings, F. W., 761
 Stroud, C. R., Jr. *and* —, 761
- Jánossy, L.,
 Ádám, A., — *and* Varga, P., 713
- Jeffreys, H., 368
- Jensen, S. M. *and* Hellwarth, R. W., 1094
- Jodoin, R.,
 — *and* Mandel, L., 849, Fig. 16.21
 Lama, W. L., — *and* Mandel, L., 851, Fig.
 16.22
- Jones, D. G. C.,
 Allen, L., Gatehouse, S. *and* —, 389
- Jones, D. S., 57
 — *and* Kline, M., 134
- Jones, R. C., 355
 Hurwitz, H. *and* —, 355
- Jordan, T. F., 539
- Joshi, K. C.,
 Kandpal, H. C., Saxena, K., Mehta, D. S.,
 Vaishya, J. S. *and* —, 200
 Kandpal, H. C., Vaishya, J. S., Chander, M.,
 Saxena, K., Mehta, D. S. *and* —, 318
 Kandpal, H. C., Vaishya, J. S. *and* —,
 323

- Kac, M. *and* Siegert, A. J. F., 66
 Kahanin, Ya I.,
 Kocharovskaya, O. A. *and* —, 901
 Kandpal, H. C.,
 James, D. F. V., — *and* Wolf, E., 173
 —, Saxena, K., Mehta, D. S., Vaishya, J. S.
 and Joshi, K. C., 200
 —, Vaishya, J. S., Chander, M., Saxena, K.,
 Mehta, D. S. *and* Joshi, K. C., 318
 —, Vaishya, J. S. *and* Joshi, K. C., 323
 — *and* Wolf, E., 254
 Kano, Y., 602, 618
 — *and* Wolf, E., Fig. 13.2
 Kaplan, D. L.,
 Gibbs, H. M., Hopf, F. A., — *and*
 Shoemaker, R. L., 832
 Karhunen, K., 66
 Kärtner, F. X. *and* Haus, H. A., 1103
 Kay, I. *and* Silverman, R., 178
 Kazantsev, A. P., 795, 797
 —, Ryabenko, G. A., Surdutovich, G. I.
 and Yakovlev, V. P., 799
 Keitel, C.,
 Narducci, L. M., Doss, H. M., Ru, P., Scully,
 M. O., Zhu, S. Y. *and* —, 901
 Kelley, H. P.,
 Carter, S. L. *and* —, 690
 Kelley, P. L. *and* Kleiner, W. H., 726
 Kendall, M. G., 17
 Kestelman, H., 56
 Khalil, F. Y.,
 Braginsky, V. B. *and* —, 1100
 Khanin, Ya. I.,
 Kocharovskaya, O. A. *and* —, 901
 Kharkevich, A. A., 178
 Khintchine, A., 57
 Kibble, T. W. B., 565
 Kielich, S., Kozierowski, M. *and* Tanás, R.,
 1071, 1072
 Kiess, T. E., Shih, Y. H., Sergienko, A. V. *and*
 Alley, C. O., 655
 Kim, K.,
 — *and* Wolf, E., 307
 —, Mandel, L. *and* Wolf, E., 356, 362
 Kimble, H. J., 1034
 Abata, J. A., — *and* Mandel, L., 719, Fig.
 14.10
 — *and* Mandel, L., 694, 698, 738, 766, 772,
 776, Fig. 15.9, 781, 784, 786, 787, 865
 —, Dagenais, M. *and* Mandel, L., 720, 787
 Orozco, L. A., — *and* Rosenberger, A. T.,
 830, Fig. 16.12
 Wu, L. A., —, Hall, J. *and* Wu, H., 1054,
 Fig. 21.6
 King, H.,
 Haake, F., Haus, J., —, Schröder, G. *and*
 Glauber, R. J., 850
 Haake, F., —, Schröder, G., Haus, J. *and*
 Glauber, R. J., 850
 Weiss, C. O. *and* —, 971
 Kinzly, R. E., 259
 Kitagawa, M. *and* Yamamoto, Y., 1102
 Kitchener, J. A. *and* Prosser, A. P., 509
 Klauder, J. R., 522, 534, 540, 543, 555, 556, 866
 —, McKenna, J. *and* Currie, D. G., 534,
 540, 543, 592
 — *and* Sudarshan, E. C. G., 540, 544, 555,
 565, 866
 Fan, H. Y., Zaidi, H. R., *and* —, 1034
 Kleiman, H.,
 Phillips, D. T., — *and* Davis, S. P., 716,
 717, Fig. 14.8
 Kleiner, W. H.,
 Kelley, P. L. *and* —, 726
 Kleinman, D. A., 1074
 Kline, M.,
 Jones, D. S. *and* —, 134
 Klishche, W.,
 Weiss, C. O., —, Ering, P. S. *and* Cooper,
 M., 970, 971, Fig. 18.36
 Klyshko, D. N., 1074
 Zel'dovich, B. Ya *and* —, 1074
 Knable, N.,
 Cummins, H. Z. — *and* Yeh, Y., 463
 Knight, P. L.,
 Ackerhalt, J. R., — *and* Eberly, J. H., 511,
 766
 Loudon, R. *and* —, 1034
 Sanders, B. C., Barnett, S. M. *and* —, 495
 Knox, R. S.,
 Bocko, M., Douglass, D. H. *and* —, 312,
 Fig. 5.35, Fig. 5.36
 Kobe, D. H., 690
 Kocharovskaya, O. A. *and* Khanin, Ya. I., 901
 Kogelnik, H.,
 — *and* Li, T., 262, 902, 905, 906
 — *and* Rigrod, W. W., Fig. 18.3
 Kohler, D. *and* Mandel, L., 388
 Kolmogoroff, A., 72
 Komarov, L. *and* Fisher, I. Z., 412
 Korenman, V.,
 Chang, R. F., —, Alley, C. O. *and*
 Detenbeck, R. W., 926, 929, Fig. 18.15
 Korn, G. A. *and* Korn, T. M., 938
 Korn, T. M.,
 Korn, G. A. *and* —, 938
 Korobkin, V. V. *and* Uspenskii, A. V., 915
 Kozierowski, M., 1066
 Kielich, S., — *and* Tanas, R., 1071, 1072
 — *and* Tanas, R., 1071, 1072
 Kramers, H. A., 77
 Krokhin, O. N.,
 Basov, N. G., — *and* Popov, Yu. M., 611
 Krzywicki, A.,
 Dennery, P. *and* —, 131
 Kubo, R., 867
 Kujawski, A.,
 Eberly, J. H. *and* —, 602
 Kurnit, N. A.,
 —, Abella, I. D. *and* Hartmann, S. R., 809,
 812
 Abella, I. D., — *and* Hartmann, S. R., 809,
 813, Fig. 16.4
 Szöke, A., Daneu, V., Goldhar, J. *and* —,
 822
 Kwiat, P. G., Steinberg, A. M. *and* Chiao,
 R. Y., 1083
 Labeyrie, A., 380, 381
 Laloë, F.,
 Cohen-Tannoudji, C., Diu, B. *and* —, 440

- Lalor, É., 113
 Sherman, G. C., Stamnes, J. J. *and* —, 114
 Lam, J. F.,
 — *and* Berman, P. R., 791
 Lama, W. L.,
 —, Jodoin, R. *and* Mandel, L., 851, Fig. 16.22
 Stroud, Jr., C. R., Eberly, J. H., — *and* Mandel, L., 848, 849
 Lamb, W. E., Jr., 689, 814, 903, 905, 977, Fig. 19.10
 — *and* Retherford, R. C., 510, 771, 773
 — *and* Scully, M. O., 439
 Menegozzi, L. N. *and* —, 977
 Sargent, M., III, Scully, M. O. *and* —, 930, 932, 977, 980
 Scully, M. O. *and* —, 930, 932, 936, Fig. 18.17, Fig. 18.18
 Wang, Y. K. *and* —, 941
 Landau, L.,
 — *and* Lifshitz, E. M., 415, 923
 — *and* Placzek, G., 415
 Lane, A. S.,
 Milburn, G. J., — *and* Walls, D. F., 1100
 Lastovak, J. B. *and* Benedek, G. B., 464
 Lax, M., 79, 559, 860, 888, 890
 Cantrell, C. D., — *and* Smith, W. A., 964, Fig. 18.33
 Hempstead, R. D. *and* —, 916, 924, 946, 948, 957
 — *and* Louisell, W. H., 941
 Leader, J. C., 244
 Leidermann, W., 467
 Lenstra, D., 738
 — *and* Mandel, L., 488, 491, 610
 — *and* Singh, S., 1013, 1017, 1018
 Lerner, E. C., 495
 Letokhov, V. S., 791
 Balykin, V. I., — *and* Mushin, V. I., 795
 — *and* Minogin, V. G., 795
 — *and* Pavlik, B. D., 795
 —, Minogin, V. G., *and* Pavlik, B. D., 795
 Lett, P. D.,
 —, Christian, W., Singh, S. *and* Mandel, L., Fig. 19.12, 1001, Fig. 19.18
 —, Phillips, W. D., Rolston, S. L., Tanner, C. E., Watts, R. N. *and* Westbrook, C. I., 801, 802, Fig. 15.18
 —, Watts, R. N., Westbrook, C. I., Phillips, W. D., Gould, P. L. *and* Metcalf, H. J., 802
 Chyba, T. H., Christian, W. R., Gage, E., — *and* Mandel, L., 972
 Phillips, W. D., Gould, P. L. *and* —, Fig. 15.17
 Westbrook, C. I., Watts, R. N., Tanner, C. E., Rolston, S. L., Phillips, W. D., — *and* Gould, P. L., 796
 Leuchs, G.,
 Cresser, J. D., Häger, J., —, Rateike, M. *and* Walther, H., 720
 Lew, H.,
 Arimondo, E., — *and* Oka, T., 794, 796
 Ley, M. *and* Loudon, R., 640
 Li, T.,
 Fox, A. G. *and* —, 389, 394, 902, 905, 906
 Kogelnik, H. *and* —, 262, 902, 905, 906
 Li, Y. *and* Wolf, E., 244
 Lifshitz, E. M.,
 Derjaguin, B. V., Abrikosova, I. I. *and* —, 509
 Landau, L. *and* —, 415, 923
 Lind, R. C.,
 Jain, R. K. *and* —, 1101
 Little, A. G.,
 Twiss, R. Q. — *and* Brown, Hanbury R., 448, 713
 Lorentz, H. A., 289
 Lorenz, E. N., 965
 Loudon, R., 446, 640, 1056, 1063
 Fearn, H. *and* —, 640
 Ley, M. *and* —, 640
 — *and* Knight, P. L., 1034
 Louisell, W. H., 474, 492, 515, 617, 860, 866, 888, 890, 941, 942, 1074
 Lax, M. *and* —, 941
 Loy, M. M. T., 754
 Lugiato, L. A.,
 Bonifacio, R. *and* —, 824, 829, 847
 — *and* Strini, G., 1053, 1054
 Lukacs, E., 17, 19, 55, 79
 Luneburg, R. K., 126
 Lynch, R., 495
 M-Tehrani, M. *and* Mandel, L., 979, 983, 984, Fig. 19.3, Fig. 19.4, Fig. 19.5, 988, 1002, 1004, Fig. 19.19, Fig. 19.20, Fig. 19.22
 MacGillivray, J. C.,
 Skribanowitz, N., Herman, I. P., — *and* Feld, M. S., 846
 Machado Mata, J. A.,
 Shapiro, J. H., Yuen, H. P. *and* —, 1049, 1052
 Machida, S. *and* Yamamoto, Y., 738
 Maeda, M. *and* Abraham, N. B., 971
 Maiman, T. H., 900
 Maker, P. D., Terhune, R. W., Nisenoff, M. *and* Savage, C. M., 1073
 Mandel, L., 102, 157, 179, 197, 200, 401, 422, 446, 450, Fig. 9.10, 495, Fig. 11.2, 553, 612, Fig. 12.5, 627, 629, 630, 632, 635, 666, 677, Fig. 13.6, 680, 690, 722, 726, 731, 732, Fig. 14.13, 734, 735, 790, 791, 793, Fig. 15.13, 900, 979, 1000, Fig. 19.16, 1022, 1052, 1053, 1073, 1090
 Abata, J. A., Kimble, H. J. *and* —, 719, Fig. 14.10
 Bédard, G., Chang, J. C. *and* —, 732
 Boyd, R. W., Habashy, T. M., Jacobs, A. A., —, Nieto-Vesperinas, M., Tompkin, W. R. *and* Wolf, E., 1099, Fig. 22.15, Fig. 22.16
 Chopra, S. *and* —, 719, 958, 964
 Chyba, T. H., Christian, W. R., Gage, E., Lett, P. *and* —, 972
 Dagenais, M. *and* —, 720, Fig. 14.11, 755, Fig. 15.3, 787, Fig. 15.11, Fig. 15.12
 Davidson, F. *and* —, 716, Fig. 14.7, 719, 722, 926, Fig. 18.12, 964
 Friberg, S. *and* —, 1022, 1025, 1030, Fig. 20.2, 1054, 1056
 Friberg, A. T., Hong, C. K. *and* —, Fig. 22.2, 1084

- Mandel, L., (*cont.*)
 Hioe, F. T., Singh, S. *and* —, 1002
 Hong, C. K. *and* —, 738, 1065, 1078, Fig. 22.3
 Hong, C. K., Friberg, S. *and* —, 1022, 1030
 Hong, C. K., Ou, Z. Y. *and* —, 646, 1084, 1086, Fig. 22.5, Fig. 22.6
 Jodoin, R. *and* —, 849, Fig. 16.21
 Kim, K., — *and* Wolf, E., 356, 362
 Kimble, H. J. *and* —, 694, 698, 738, 766, 772, 776, Fig. 15.9, 781, 784, 786, 787, 865
 Kimble, H. J., Dagenais, M. *and* —, 720, 787
 Kohler, D. *and* —, 388
 — *and* Hong, C. K., 1067
 — *and* Mehta, C. L., 585, 587, 589, 602
 — *and* Meltzer, D., 613, 696
 — *and* Wolf, E., 65, 169, 171, 180, 197, 205, 396, 712, 735
 —, Roy, R. *and* Singh, S., 989, Fig. 19.9, 995, Fig. 19.13, 998, Fig. 19.14, Fig. 19.15, Fig. 19.23
 —, Sudarshan, E. C. G. *and* Wolf, E., 439, 626, 706, 736
 Lama, W. L., Jodoin, R. *and* —, 851, Fig. 16.22
 Lenstra, D. *and* —, 488, 491, 610
 Lett, P., Christian, W., Singh, S. *and* —, Fig. 19.12, 1001, Fig. 19.18
 Mehta, C. L. *and* —, 425, 585
 Meltzer, D. *and* —, 739, Fig. 18.23, Fig. 18.24, 953, Fig. 18.25, Fig. 18.26
 Meltzer, D., Davis, W. *and* —, 921, Fig. 18.8
 Meltzer, D. *and* —, 952, 953, 955
 Morgan, B. L. *and* —, 448, 715, Fig. 14.6
 M-Tehrani, M. *and* —, 979, 983, 984, Fig. 19.3, Fig. 19.4, Fig. 19.5, 988, 1002, 1004, Fig. 19.19, 19.20, Fig. 19.22
 Noh, J. W., Fougères, A. *and* —, 495, 497, Fig. 10.1, Fig. 10.2, 499, Fig. 10.3, Fig. 10.4
 Ou, Z. Y. *and* —, 640, 655, Fig. 12.12
 Ou, Z. Y., Hong, C. K. *and* —, 640, 644, 1057, 1058, 1063, 1064, Fig. 21.8, Fig. 21.9
 Ou, Z. Y., Wang, L. J. *and* —, 1078, 1080, 1088, 1090, Fig. 22.7
 Ou, Z. Y., Wang, L. J., Zou, X. Y. *and* —, 1088, Fig. 22.8
 Roy, R. *and* —, 1001
 Roy, R., Short, R., Durnin, J. *and* —, 1017, Fig. 19.24, 1018, Fig. 19.25
 Short, R. *and* —, 627, 738, 790
 Singh, S. *and* —, 983, 984, Fig. 19.6, Fig. 19.7, Fig. 19.8, 1001, Fig. 19.17, Fig. 19.21, 1013, 1015
 Singh, S., Friberg, S. *and* —, 958, Fig. 18.29
 Stroud, Jr., C. R., Eberly, J. H., Lama, W. L. *and* —, 848, 849
 Wang, L. J., Zou, X. Y. *and* —, 1091
 Zou, X. Y., Wang, L. J. *and* —, 1079, 1091, Fig. 22.9, Fig. 22.10, Fig. 22.11
 Manes, K. R.,
 — *and* Siegman, A. E., 961
 Siegman, A. E., Daino, B. *and* —, 961
 Marathay, A. S.,
 — *and* Roman, P., 384
 Roman, P. *and* —, 384
 Marchand, E. W. *and* Wolf, E., 273, 294, 295, 297
 Margenau, H. *and* Hill, R. N., 296
 Marshall, T. W., 761
 Martienssen, W. *and* Spiller, E., 257
 Martin, P. J., Gould, P. L., Oldaker, B. G., Miklich, A. H. *and* Pritchard, D. E., 796
 Matsuoka, M.,
 Nakatsuka, H., Asaka, S., Itoh, H., Ikeda, K. *and* —, 832
 Mayr, M., Risken, H. *and* Vollmer, H. D., 915, 1019
 McCall, S. L., 822, 829
 Gibbs, H. M., — *and* Venkatesan, T. N. C., 822, 824, 831, Fig. 16.13
 — *and* Hahn, E. L., 760, Fig. 15.7, 761, 814, 817, 818, Fig. 16.5, 820, Fig. 16.7
 McGuire, D., 250
 McKenna, J.,
 Klauder, J. R. — *and* Currie, D. G., 540, 543
 Mehta, C. L., 38, 180, 388, 545, 585, 591, 727
 Dialetis, D. *and* —, 602
 Mandel, L. *and* —, 585, 587, 589, 602
 Wolf, E. *and* —, 734
 — *and* Mandel, L., 425, 585
 — *and* Sudarshan, E. C. G., 545, 619
 — *and* Wolf, E., 364, 367, 370, 372, 668, Fig. 13.2, Fig. 13.3
 —, Wolf, E. *and* Balachandran, A. P., 200
 Mehta, D. S., 386
 Kandpal, H. C., Saxena, K., —, Vaishya, J. S. *and* Joshi, K. C., 200
 Kandpal, H. C., Vaishya, J. S., Chander, M., Saxena, K., — *and* Joshi, K. C., 318
 Meltzer, D.,
 Mandel, L. *and* —, 613, 696
 — *and* Mandel, L., 739, Fig. 18.23, Fig. 18.24, 953, Fig. 18.25, Fig. 18.26
 —, Davis, W. *and* Mandel, L., 921, Fig. 18.8
 Menegozzi, L. N. *and* Lamb, W. E., Jr., 977
 Menzel, D. H., 287
 Mermin, N. D., 648
 Mertz, J. C.,
 Slusher, R. E., Hollberg, L. W., Yurke, B., — *and* Valley, J. F., 1054, Fig. 21.5, 1064, 1098
 Messiah, A., 440, 476
 Metcalf, H. J.,
 Lett, P. D., Watts, R. N., Westbrook, C. I., Phillips, W. D., Gould, P. L. *and* —, 802
 Phillips, W. D. *and* —, 800
 Phillips, W. D., Prodan, J. V. *and* —, 800
 Prdodan, J. V., Phillips, W. D. *and* —, 800
 Salomon, C., Dalibard, J., Aspect, A., — *and* Cohen-Tannoudji, C., 795
 Michelson, A. A., 147, 166, 375, 381
 — *and* Pease, F. G., 375
 Middleton, D., 59
 Miklich, A. H.,
 Martin, P. J., Gould, P. L., Oldaker, B. G., — *and* Pritchard, D. E., 796
 Milburn, G. J., 1034
 — *and* Walls, D. F., 1053, 1100
 —, Lane, A. S. *and* Walls, D. F., 1100

- Milburn, G. J., (*cont.*)
 Sanders, B. C. *and* —, 1102, 1103, Fig. 22.18
 Walls, D. F. *and* —, 887
 Millane, R. P., 388
 Miller, M. M. *and* Mishkin, E. A., 540
 Milonni, P. W., 511, 781
 Ackerhalt, J. R., — *and* Shih, M. L., 970,
 Fig. 18.35
 Ackerhalt, J. R. *and* —, 689, 691
 —, Ackerhalt, J. R. *and* Smith, W. A., 511
 —, Cook, R. J. *and* Ackerhalt, J. R., 689,
 691
 — *and* Eberly, J. H., 903
 Minogin, V. G.,
 Letokhov, V. S. *and* —, 795
 Letokhov, V. S., — *and* Pavlik, B. D., 795
 Mishkin, E. A.,
 Miller, M. M. *and* —, 540
 Miyamoto, K. *and* Wolf, E., 113
 Mlodinow, L. D.,
 Hillery, M. *and* —, 1070
 Mollow, B. R., 726, 781, 782, 784, 1055, 1074,
 1078
 — *and* Glauber, R. J., 1074
 Montroll, E. W., 878, 880, 883
 Moran, J. M.,
 Thompson, A. R., — *and* Swenson, G. W.,
 381
 Morgan, B. L. *and* Mandel, L., 448, 715, Fig.
 14.6
 Morris, G. M.,
 Fakis, D. *and* —, 316
 — *and* Fakis, D., 331, Fig. 5.50, Fig. 5.51
 Morse, P. M. *and* Feshbach, H., 84, 95, 391
 Mossberg, T.,
 Flusberg, A., — *and* Hartmann, S. R., 846
 Mountain, R. D., 417
 Moyal, J. E., 77, 559
 Mueller, H., 362
 Mushin, V. I.,
 Balykin, V. I., Letokhov, V. S. *and* —, 795
 Nakatsuka, H., Asaka, S., Itoh, H., Ikeda, K.
and Matsuoka, M., 832
 Narducci, L. M.,
 Agarwal, G. S., Brown, A. C., — *and* Vetri,
 G., 841, 885
 Agarwal, G. S., Feng, D. H., —, Gilmore,
 R. *and* Tuft, R. A., 885
 Farina, J. D., — *and* Collett, E., 258, 286,
 Fig. 5.24
 —, Doss, H. M., Ru, P., Scully, M. O.,
 Zhu, S. Y. *and* Keitel, C., 901
 — *and* Farina, J. D., Fig. 5.16
 —, Gilmore, R., Da Hsuan Feng *and*
 Agarwal, G. S., 829, 885
 Neureuther, A. R.,
 Oldham, W. G., Subramanian, S. *and* —,
 259
 Newton, T. D. *and* Wigner, E. P., 480, 629
 Nieto, M. M.,
 Carruthers, P. *and* —, 492, 494
 Fisher, R. A., — *and* Sandberg, V. D.,
 1038, 1042
 Nieto-Vesperinas, M.,
 Boyd, R. W., Habashy, T. M., Jacobs, A. A.,
 Mandel, L., —, Tompkin, W. R. *and*
 Wolf, E., 1099, Fig. 22.15, Fig. 22.16
 — *and* Wolf, E., 640
 Nisenoff, M.,
 Maker, P. D., Terhune, R. W., — *and*
 Savage, C. M., 1073
 Noh, J. W., Fougères, A. *and* Mandel, L., 495,
 497, Fig. 10.1, Fig. 10.2, 499, Fig. 10.3, Fig.
 10.4
 Nummedal, H.,
 Risken, H. *and* —, 915, 965, 968, 971, 1019
 Nussenzveig, H. M., 57, 94, 384, 549
 Nyquist, H., 867
 Nyysönen, D., 259
 Ohno, H.,
 Haken, H. *and* —, 915
 Ohtsuka, Y.,
 Imai, Y. *and* —, 259
 — *and* Imai, Y., 259
 Oka, T.,
 Arimondo, E., Lew, H. *and* —, 794, 796
 Olafsson, A.,
 Weiss, C. O., Godone, A. *and* —, 971
 Oldaker, B. G.,
 Martin, P. J., Gould, P. L., —, Miklich,
 A. H. *and* Pritchard, D. E., 796
 Oldham, W. G., Subramanian, S. *and*
 Neureuther, A. R., 259
 Oppenheim, I., Shuler, K. E. *and* Weiss, G. H.,
 70, 75, 878
 Orozco, L. A., Kimble, H. J. *and* Rosenberger,
 A. T., 830, Fig. 16.12
 Oswald, J. R. V., 93
 Ou, Z. Y.,
 Hong, C. K. — *and* Mandel, L. 646, 1084,
 1086, Fig. 22.5, Fig. 22.6
 — *and* Mandel, L., 640, 655, Fig. 12.12
 —, Hong, C. K. *and* Mandel, L., 640, 644,
 1057, 1058, 1063, 1064, Fig. 21.8, Fig. 21.9
 —, Wang, L. J. *and* Mandel, L., 1078, 1080,
 1088, 1090, Fig. 22.7
 —, Wang, L. J., Zou, X. Y. *and* Mandel,
 L., 1088, Fig. 22.8
 Özizmir, E.,
 Imre, K., —, Rosenbaum, M. *and* Zweifel,
 P. F., 296
 Padovani, C.,
 Gori, F., Guattari, G., Palma, C. *and* —,
 315, Fig. 5.37, Fig. 5.38
 Page, C. H., 385
 Paley, A. R. E. A. C. *and* Wiener, N., 94, 385
 Palma, C.,
 De Santis, P., Gori, F. Guattari, G. *and* —,
 256, Fig. 5.13, Fig. 5.14, Fig. 5.15
 De Santis, P., Gori, F. *and* —, 256
 Gori, F., Guattari, G., — *and* Padovani, C.,
 315, Fig. 5.37, Fig. 5.38
 Gori, F. *and* —, 256
 Pancharatnam, S., 147
 Pao, Y.,
 Weaver, R. L. *and* —, 385
 Papas, C. H., 195, 406
 Parke, N. G., III, 362

- Parrent, G. B., 185
 Beran, M. J. *and* —, 367
 — *and* Roman, P., 355
 Patashinskii, A. Z. *and* Pokrovskii, V. L., 1000
 Paul, H., 495
 Bandilla, A. — *and* Ritzl, H., 495
 Pauli, W., 75, 878
 Pavlik, B. D.,
 Letokhov, V. S. *and* —, 795
 Letokhov, V. S., Minogin, V. G. *and* —,
 795
 Pearson, D. B.,
 Bjorkholm, J. E., Freeman, R. R., Ashkin, A.
and —, 791, 795
 Pease, F. G., 375, 376
 Michelson, A. A. *and* —, 375
 Pecora, R., 401, 412
 Berne, B. J. *and* —, 401
 Pegg, D. T.,
 Barnett, S. M. *and* —, 495
 — *and* Barnett, S. M., 495, 496
 Peierls, R. E., 467
 Pepper, D. M., 1098
 Yariv, A. *and* —, 1064, 1093
 Peřina, J., 559, 727, 1070
 Teich, M. C., Saleh, B. E. A. *and* —, 738
 Perrin, F., 362
 Pershan, P. S.,
 Armstrong, J. A., Bloembergen, N., Ducuing,
 J. *and* —, 1071, 1073
 Peters, C. W.,
 Franken, P. A., Hill, A. E., — *and*
 Weinreich, G., 1069, 1070
 Phillips, D. T., Kleiman, H. *and* Davis, S. P.,
 716, 717, Fig. 14.8
 Phillips, W. D.,
 Arimondo, E., — *and* Strumia, F., 803
 Cohen-Tannoudji, C. *and* —, 803
 Lett, P. D., —, Rolston, S. L., Tanner,
 C. E., Watts, R. N. *and* Westbrook, C. I.,
 801, 802, Fig. 15.18
 Lett, P. D., Watts, R. N., Westbrook, C. I.,
 —, Gould, P. L. *and* Metcalf, H. J., 802
 — *and* Metcalf, H., 800
 —, Gould, P. L. *and* Lett, P. D., Fig. 5.17
 —, Prodan, J. V. *and* Metcalf, H., 801
 Prodan, J. V., — *and* Metcalf, H. J., 800
 Westbrook, C. I., Watts, R. N., Tanner,
 C. E., Rolston, S. L., —, Lett, P. D. *and*
 Gould, P. L., 796
 Picqué, J.-L. *and* Vialle, J.-L., 794, Fig. 15.14
 Pike, E. R., 718
 Cummins, H. Z. *and* —, 718
 Jakeman, E. *and* —, 719
 — *and* Sarkar, S., 630
 Pilipetsky, N. F.,
 Zel'dovich, B. Ya., — *and* Shkunov, V. V.,
 1098
 Pillet, P.,
 Gross, M., Fabre, C., — *and* Haroche, S.,
 846
 Piron, C.,
 Jauch, J. M. *and* —, 630
 Pitcher, T. S.,
 Root, W. L. *and* —, 65
 Placzek, G.,
 Landau, L. *and* —, 415
 Planck, M., 302, 665
 Podolsky, B.,
 Einstein, A., — *and* Rosen, N., 648, 1082
 Pogorzelski, W., 67
 Pokrovskii, V. L.,
 Patashinskii, A. Z. *and* —, 1000
 Polder, D.,
 Casimir, H. B. G. *and* —, 509
 —, Schuurmans, M. F. H. *and* Vreken,
 Q. H. F., 850
 Popov, Yu. M.,
 Basov, N. G., Krokhin, O. N. *and* —, 611
 Pound, R. V.,
 Rebka, G. A. *and* —, 448, 713
 Power, E. A., 474, 509
 — *and* Thirunamachandran, T., 690
 — *and* Zienau, S., 689
 Prentiss, M. G.,
 Bigelow, N. P. *and* —, 796
 Chu, S., —, Cable, A. E. *and* Bjorkholm,
 J. E., 803
 —, *and* Cable, A., 799
 Raab, E. L., —, Cable, A., Chus, S. *and*
 Pritchard, D. E., 800
 Prigogine, I., 878, 880, 883
 Pritchard, D. E.,
 Martin, P. J., Gould, P. L., Oldaker, B. G.,
 Miklich, A. H. *and* —, 796
 Raab, E. L., Prentiss, M., Cable, A., Chus, S.
and —, 800
 Procaccia, I.,
 Ben-Mizrachi, A., — *and* Grassberger, P.,
 972
 Grassberger, P. *and* —, 972
 Prodan, J. V.,
 Phillips, W. D., — *and* Metcalf, H. J., 800,
 801
 —, Phillips, W. D. *and* Metcalf, H. J., 800
 Prokhorov, A. M.,
 Basov, N. G. *and* —, 900
 Prosser, A. P.,
 Kitchener, J. A. *and* —, 509
 Purcell, E. M., 718
 Querzola, B.,
 Arecchi, F. T., Degiorgio, V. *and* —, 953
 Raab, E. L., Prentiss, M., Cable, A., Chus, S.
and Pritchard, D. E., 800
 Rabi, I. I., 742, 754
 Radcliffe, J. M., 852
 Raimond, J. M.,
 Dalibard, J., — *and* Zinn-Justin, J., 803
 —, Goy, P., Gross, M., Fabre, C. *and*
 Haroche, S., 847
 Rainville, E. D., 1050
 Rarity, J. G.,
 — *and* Tapster, P. R., 1083
 —, Tapster, P. R. *and* Jakeman, E., 738
 Rasmussen, W.,
 Hartig, W., —, Schieder, R. *and* Walther,
 H., 755

- Rateike, M.,
 Cresser, J. D., Häger, J., Leuchs, G., —
 and Walther, H., 720
- Ravi, S.,
 Agarwal, G. S., — and Cooper, J., 901
- Rayleigh, Lord, 127
- Rebka, G. A. and Pound, R. V., 448, 713
- Rehler, N. E. and Eberly, J. H., 843, 848
- Reid, M. D. and Walls, D. F., 653, 657, 1053,
 1064
- Renaud, B., Whitley, R. M. and Stroud, C. R.,
 Jr., 782
- Resnick, R.,
 Halliday, D. and —, Fig. 13.1
- Ressayre, E. and Tallet, A., 849
- Retherford, R. C.,
 Lamb, W. E., Jr. and —, 510, 771, 773
- Reynaud, S.,
 Grangier, P., Roger, G., Aspect, A.,
 Heidmann, A. and —, 720
 Heidmann, A., — and Cohen-Tannoudji,
 C., 1056
- Reynolds, G. O. and Smith, A. E., 259
- Rice, S. O., 51, 101, 453
- Richter, P. H.,
 Grossmann, S. and —, 984
- Richter, T., 1056
- Riesz, F. and Sz.-Nagy, B., 67
- Rigrod, W. W.,
 Kogelnik, H. and —, Fig. 18.3
 — and Bridges, T. J., 1013
- Riis, E.,
 Ungar, P. J., Weiss, D. S., — and Chu, S.,
 803
 Weiss, D. S., —, Shevy, Y., Ungar, P. J.
 and Chu, S., 803
- Risken, H., 80, 916, 924, 927, Fig. 18.14, 929,
 946, 948, Fig. 18.21, Fig. 18.22, 957, Fig.
 18.30
- Mayr, M., — and Vollmer, H. D., 915, 1019
 — and Nummedal, H., 915, 965, 968, 971,
 1019
 — and Vollmer, H. D., 915, 924, 946, 947,
 948, Fig. 18.19, Fig. 18.20, 957, Fig. 18.27
- Ritze, H.,
 Bandilla, A., Paul, H. and —, 495
- Robiscoe, R. T.,
 Wessner, J. M., Anderson, D. K. and —,
 761, 774
- Rocca, F., 540, 543
- Rockower, E. B., Abraham, N. B. and Smith,
 S. R., 1023
- Rodari, G. S.,
 Arecchi, F. T., — and Sona, A., 926
- Roger, G.,
 Aspect, A., Dalibard, J. and —, 655, Fig.
 12.11
 Aspect, A., Grangier, J. and —, 655
 Grangier, P., — and Aspect, A., 720
 Grangier, P., —, Aspect, A., Heidmann, A.
 and Reynaud, S., 720
- Rohlfis, K., 381
- Rolston, S. L.,
 Lett, P. D., Phillips, W. D., —, Tanner,
 C. E., Watts, R. N. and Westbrook, C. I.,
 801, 802, Fig. 15.18
 Westbrook, C. I., Watts, R. N., Tanner,
 C. E., —, Phillips, W. D., Lett, P. D. and
 Gould, P. L., 796
- Roman, P., 367
- Marathay, A. S. and —, 384
 Parrent, G. B. and —, 355
 — and Marathay, A. S., 384
 — and Wolf, E., 365, 367
- Root, W. L.,
 Davenport, W. B. and —, 61, 106
 — and Pitcher, T. S., 65
- Rosen, N.,
 Einstein, A., Podolsky, B. and —, 648, 1083
- Rosenbaum, M.,
 Imre, K., Özizmir, E., — and Zweifel,
 P. F., 296
- Rosenberger, A. T.,
 Orozco, L. A., Kimble, H. J. and —, 830,
 Fig. 16.12
- Ross, G.,
 Burge, R. E., Fiddy, M. A., Greenaway,
 A. H. and —, 385
- Ross, S. L., 947
- Roy, R.,
 Mandel, L., — and Singh, S., 989, Fig. 19.9,
 995, Fig. 19.13, 998, Fig. 19.14, Fig. 19.15,
 Fig. 19.23
 — and Mandel, L., 1001
 —, Short, R., Durnin, J. and Mandel, L.,
 1017, Fig. 19.24, 1018, Fig. 19.25
- Ru, P.,
 Narducci, L. M., Doss, H. M., —, Scully,
 M. O., Zhu, S. Y. and Keitel, C., 901
- Ruijsenaar, S. N. M.,
 Hegerfeldt, G. C. and —, 638
- Ryabenko, G. A.,
 Kazantsev, A. P., —, Surdutovich, G. I. and
 Yakovlev, V. P., 799
- Ryzhik, I. M.,
 Gradshteyn, I. S. and —, 132, 248, 266, 1005
- Sainz de los Terreros, L.,
 Garcia-Fernandez, P., —, Bermejo, F. J.
 and Santoro, J., 1066
- Sakai, H.,
 Vanasse, G. A. and —, 388
- Saleh, B. E. A., 251, 727
 Campos, R. A., — and Teich, M. C., 640
 — and Irshid, M. I., 251
 — and Teich, M., 727, 738
 Teich, M. C. and —, 738, 790, 1034
 Teich, M. C., — and Perina, J., 738
- Salomon, C.,
 Aspect, A., Dalibard, J., Heidmann, A., —
 and Cohen-Tannoudji, C., 799
 —, Dalibard, J., Aspect, A., Metcalf, H.
 and Cohen-Tannoudji, C., 795
- Sandberg, V. D.,
 Caves, C. M., Thorne, K. S., Drever,
 R. W. P., — and Zimmerman, M., 1100
- Fisher, R. A., Nieto, M. M. and —, 1038,
 1042
- Sanders, B. C.,
 —, Barnett, S. M. and Knight, P. L., 495

- Sanders, B. C., (*cont.*)
 — *and* Milburn, G. J., 1102, 1103, Fig. 22.18
 Santarsiero, M. *and* Gori, F., 318
 Santoro, J.,
 Garcia-Fernandez, P., Sainz de los Terreros,
 L., Bermejo, F. J. *and* —, 1066
 Sarfatt, J., 668
 Sargent, M., III.,
 Hambenne, J. B. *and* —, 994
 —, Scully, M. O. *and* Lamb, W. E., Jr., 930,
 977, 980
 Sarkar, S.,
 Pike, E. R. *and* —, 630
 Sauermann, H.,
 Haken, H. *and* —, 903, 930, 932
 Savage, C. M.,
 Gardiner, C. W. *and* —, 1054, 1056
 Maker, P. D., Terhune, R. W., Nisenoff, M.
and —, 1073
 Savedoff, M. P.,
 James, D. F. V., — *and* Wolf, E., 327, 411
 Saxena, K.,
 Agarwal, G. S. *and* —, 791
 Kandpal, H. C., —, Mehta, D. S., Vaishya,
 J. S. *and* Joshi, K. C., 200
 Kandpal, H. C., Vaishya, J. S., Chander, M.,
 —, Mehta, D. S. *and* Joshi, K. C., 318
 Scarl, D. B., 448, 716, 717
 Schawlow, A. L.,
 Hänsch, T. W. *and* —, 799, 800
 — *and* Townes, C. H., 900
 Schell, A. C., 234
 Schieder, R.,
 Hartig, W., Rasmussen, W., — *and*
 Walther, H., 755
 —, Walther, H. *and* Wöste, L., 794
 Schiff, L. I., 440
 Schleich, W.,
 —, Horowicz, R. J. *and* Varro, S., 495
 Vogel, W. *and* —, 495
 Schröder, G.,
 Haake, F., Haus, J., King, H., — *and*
 Glauber, R. J., 850
 Haake, F., King, H., —, Haus, J. *and*
 Glauber, R. J., 850
 Schrödinger, E., 522
 Schubert, M.,
 — *and* Vogel, W., 495
 — *and* Wilhelm, B., 1069, 1070
 Schuda, F.,
 —, Hercher, M. *and* Stroud, C. R., Jr., 761
 —, Stroud, C. R., Jr. *and* Hercher, M., 755,
 Fig. 15.4, 784
 Schumaker, B. L., 1034, 1056
 Caves, C. M. *and* —, 1034, 1036, 1038, 1056
 — *and* Caves, C. M., 1034, 1036, 1038, 1056
 Schuurmans, M. F. H.,
 Polder, D., — *and* Vreken, Q. H. F., 850
 Schweber, S. S., 513
 Schwendimann, P.,
 Bonifacio, R., — *and* Haake, F., 843, 885
 Scudieri, F., Bertolotti, M. *and* Bartolino, R.,
 258
 Scully, M. O., 913, 930, 932
 Asher, I. M. *and* —, 819, Fig. 16.6
 Degiorgio, V. *and* —, 913, 914
 Lamb, W. E. *and* —, 439
 Narducci, L. M., Doss, H. M., Ru, P., —,
 Zhu, S. Y. *and* Keitel, C., 901
 Sargent, M., III., — *and* Lamb, W. E., Jr.,
 930, 932, 977, 980
 — *and* Lamb, W. E., Jr., 930, 936, Fig.
 18.17, Fig. 18.18
 —, Zhu, S. Y. *and* Gavrielides, A., 901
 Searle, C. E.,
 Albano, A. M., Aboundadi, J., Chyba, T. H.,
 —, Yong, S., Gioggia, R. S. *and*
 Abraham, N. B., 972
 Seifert, W.,
 Güttner, A., Welling, H., Gericke, K. H. *and*
 —, 961, Fig. 18.31, Fig. 18.32
 Senitzky, I. R., 888, 890
 Sergienko, A. V.,
 Kiess, T. E., Shih, Y. H., — *and* Alley,
 C. O., 655
 Series, G. W., 509
 Sette, D.,
 Bertolotti, M., Daino, B., Gori, F. *and* —,
 394
 Shapiro, J. H., 1057
 —, Shepard, S. R. *and* Wong, N. C., 495
 Yuen, H. P. *and* —, 640, 1049, 1052, 1053,
 1056, 1064, 1094, 1097
 —, Yuen, H. P. *and* Machado Mata, J. A.,
 1049, 1052
 Shen, Y. R., 584, 1069, 1070, 1073
 Shenoy, S. R. *and* Agarwal, G. S., 1013
 Shepard, S. R.,
 Shapiro, J. H., — *and* Wang, N. C., 495
 Sherman, G. C., 117
 —, Stannnes, J. J. *and* Lalor, E., 114
 Shevy, Y.,
 Weiss, D. S., Riis, E., —, Ungar, P. J. *and*
 Chu, S., 802
 Shih, M. L.,
 Ackerhalt, J. R., Milonni, P. W. *and* —,
 970, Fig. 18.35
 Shih, Y. H.,
 — *and* Alley, C. O., 655
 Kiess, T. E., —, Sergienko, A. V. *and*
 Alley, C. O., 655
 Shimony, A.,
 Clauser, J. F. *and* —, 648, 649, 651
 Clauser, J. F., Horne, M. A., — *and* Holt,
 R. A., 648, 649, 651
 Shkunov, V. V.,
 Zel'dovich, B. Ya, Pilipetsky, N. F. *and* —,
 1098
 Shoemaker, R. L.,
 Brewer, R. G. *and* —, 808, Fig. 16.1
 Gibbs, H. M., Hopf, F. A., Kaplan, D. L. *and*
 —, 832
 Short, R.,
 Roy, R., —, Durnin, J. *and* Mandel, L.,
 1017, Fig. 19.24, 1018, Fig. 19.25
 — *and* Mandel, L., 627, 738, 790
 Shuler, K. E.,
 Oppenheim, I., — *and* Weiss, G. H., 70, 75,
 878
 Shurcliff, W. A., 362

- Siegert, A. J. F.,
 Kac, M. *and* —, 66
 Siegman, A. E., 262, 903, 906
 Manes, K. R. *and* —, 961
 — *and* Arrathoon, R., 961
 —, Daino, B. *and* Manes, K. R., 961
 Silverman, R.,
 Kay, I. *and* —, 178
 Simmons, J. W. *and* Guttman, M. J., 491, 610
 Simon, R., 362
 Singh, S., 738, 980, 981, 984
 Hioe, F. T. *and* —, 1002, 1012
 Hioe, F. T., — *and* Mandel, L., 1002
 Lenstra, D. *and* —, 1013, 1017, 1018
 Lett, P., Christian, W., — *and* Mandel, L.,
 Fig. 19.12, 1001, Fig. 19.18
 Mandel, L., Roy, R. *and* —, 989, Fig. 19.9,
 995, Fig. 19.13, 998, Fig. 19.14, Fig. 19.15,
 Fig. 19.23
 — *and* Mandel, L., 983, 984, Fig. 19.6, Fig.
 19.7, Fig. 19.8, 1001, Fig. 19.17, Fig. 19.21,
 1013, 1015
 —, Friberg, S. *and* Mandel, L., 958, Fig.
 18.29
 Skribanowitz, N., Herman, I. P., MacGillivray,
 J. C. *and* Feld, M. S., 846
 Slusher, R. E., 820
 — *and* Gibbs, H. M., 820, Fig. 16.8
 —, Hollberg, L. W., Yurke, B., Mertz, J. C.
and Valley, J. F., 1054, Fig. 21.5, 1064, 1098
 Smirnov, V. S. *and* Zhelnov, B. L., 979
 Smith, A. E.,
 Reynolds, G. O. *and* —, 259
 Smith, A. W. *and* Armstrong, J. A., 921, 926
 Smith, S. R.,
 Abraham, N. B. *and* —, 1023
 Rockower, E. B., Abraham, N. B. *and* —,
 1023
 Smith, W. A.,
 Cantrell, C. D. *and* —, 964
 Cantrell, C. D., Lax, M. *and* —, 964, Fig.
 18.33
 Milonni, P. W., Ackerhalt, J. R. *and* —, 511
 Smithies, F., 67, 391
 Smoluchowski, M. V., 72, 415
 Soleillet, P., 362
 Sona, A.,
 Arecchi, F. T., Gatti, E. *and* —, 448, 718
 Arecchi, F. T., Rodari, G. S. *and* —, 926
 Spiller, E.,
 Martienssen, W. *and* —, 257
 Srinivas, M. D.,
 — *and* Wolf, E., 75, 867
 — *and* Davis, E. B., 726
 Starnes, J. J., 133, 141
 Sherman, G. C., — *and* Lalor, E., 114
 Starikov, A. *and* Wolf, E., 261, 262, Fig. 5.17
 Stegun, I. A.,
 Abramowitz, M. *and* —, 999, 1050
 Steinberg, A. M.,
 Kwiat, P. G., — *and* Chiao, R. Y., 1083
 Steinle, B.,
 Antes, G., Baltes, H. P. *and* —, 249
 Baltes, H. P. *and* —, 244, 297
 Baltes, H. P. — *and* Antes, G., 244, 249,
 Fig. 5.10, 297
 — *and* Baltes, H. P., 244
 Stenholm, S., 791
 Stokes, G. G., 147, 348, 511, 639
 Stoler, D., 531, 1036, 1038
 Stratonovich, R. L., 982, 1013
 Streifer, W., 389
 Strini, G.,
 Lugiato, L. A. *and* —, 1053, 1054
 Strong, J. *and* Vanasse, G. A., 388
 Stroud, C. R., Jr.,
 Renaud, B., Whitley, R. M. *and* —, 782
 Schuda, F., Hercher, M. *and* —, 761
 Schuda, F., — *and* Hercher, M., 755, Fig.
 15.4, 784
 — *and* Jaynes, E. T., 761
 —, Eberly, J. H., Lama, W. L. *and* Mandel,
 L., 848, 849
 Strumia, F.,
 Arimondo, E., Phillips, W. D. *and* —, 803
 Su, C. *and* Wodkiewicz, K., 657
 Subramanian, S.,
 Oldham, W. G., — *and* Neureuther, A. R.,
 259
 Sudarshan, E. C. G., 207, 209, 210, 540, 555,
 556, 570, 592, 866
 Acharya, R. *and* —, 629
 Klauder, R. J. *and* —, 534, 540, 544, 555,
 565, 592, 866
 Mandel, L., — *and* Wolf, E., 439, 626, 706,
 736
 Mehta, C. L. *and* —, 545, 619
 Sudol, R. J.,
 Friberg, A. T. *and* —, 280
 Sung, C. C.,
 Bowden, C. M. *and* —, 829
 Surdutovich, G. I.,
 Kazantsev, A. P., Ryabenko, G. A., — *and*
 Yakovlev, V. P., 799
 Susskind, L. *and* Glogower, J., 494
 Swenson, G. W.,
 Thompson, A. R., Moran, J. M. *and* —, 381
 Swindell, W., 355
 Swinney, H. L., 718
 Cummins, H. Z. *and* —, 464, 718
 Sz, -Nagy, B.,
 Riesz, F. *and* —, 67
 Szöke, A., Daneu, V., Goldhar, J. *and* Kurnit,
 N. A., 822
 Tallet, A.,
 Ressayre, E. *and* —, 849
 Tam, A. C. *and* Happer, W., 799
 Tanás, R.,
 Kielich, S., Kozirowski, M. *and* —, 1071,
 1072
 Kozirowski, M. *and* —, 1071, 1072
 Tango, W. J.,
 Davis, J. *and* —, 380
 Tanner, C. E.,
 Lett, P. D., Phillips, W. D., Rolston, S. L.,
 —, Watts, R. N. *and* Westbrook, C. I.,
 801, 802, Fig. 15.18
 Westbrook, C. I., Watts, R. N., —, Rolston,

- Tanner, C. E., (*cont.*)
 S. L., Phillips, W. D., Lett, P. D. and Gould, P. L., 796
- Tapster, P. R.,
 Rarity, J. G. and —, 1083
- Rarity, J. G., — and Jakeman, E., 738
- Tara, K.,
 Agarwal, G. S. and —, 1032
- Teich, M. C.,
 — and Saleh, B. E. A., 727, 738, 790, 1034
 —, Saleh, B. E. A. and Perina, J., 738
 Campos, R. A., Saleh, B. E. A. and —, 640
 Saleh, B. E. A. and —, 738
- Terhune, R. W.,
 Maker, P. D., —, Nisenoff, M. and Savage, C. M., 1073
- Tervonen, E.,
 —, Friberg, A. T. and Turunen, J., 259
 Turunen, J., — and Friberg, A. T., 259
- Thirunamachandran, T.,
 Power, E. A. and —, 690
- Thomas, H.,
 Arecchi, F. T., Courtens, E., Gilmore, R. and —, 852, 857, 858
- Thompson, A. R., Moran, J. M. and Swenson, G. W., 381
- Thompson, R. C.,
 Fry, E. S. and —, 655
- Thompson, W., 130
- Thorne, K. S.,
 Caves, C. M., —, Drever, R. W. P., Sandberg, V. D. and Zimmerman, M., 1100
- Titchmarsh, E. C., 56, 94
- Titulaer, U. M. and Glauber, R. J., 592, 593, 596, 599, 601
- Toll, J. S., 385
- Tompkin, W. R.,
 Boyd, R. W., Habashy, T. M., Jacobs, A. A., Mandel, L., Nieto-Vesperinas, M., — and Wolf, E., 1099, Fig. 22.15, Fig. 22.16
- Torrey, H. C., 755, 758
- Townes, C. H.,
 Gordon, J. P., Zeiger, H. J. and —, 900
 Schawlow, A. L. and —, 900
- Treacy, E. B. and DeMaria, A. J., 754
- Tricomi, F. G., 219
- Trotter, A. P., 287
- Tschudi, T.,
 Heiniger, F., Herden, A. and —, 173
- Tucker, J. and Walls, D. F., 1074
- Tuft, R. A.,
 Agarwal, G. S., Feng, D. H., Narducci, L. M., Gilmore, R. and —, 885
- Turski, L. A., 495
- Turunen, J.,
 Friberg, A. T. and —, 395
 Tervonen, E., Friberg, A. T. and —, 259
 —, Tervonen, E. and Friberg, A. T., 259
- Twiss, R. Q.,
 Brown, Hanbury R. and —, 157, 448, 452, 457, 458, Fig. 9.6, 461, Fig. 9.7, Fig. 9.8, 708
 —, Little, A. G. and Brown, Hanbury R., 713
- Ungar, P. J.,
 —, Weiss, D. S., Riis, E. and Chu, S., 803
 Weiss, D. S., Riis, E., Shevy, Y., — and Chu, S., 802
- Uspenskii, A. V., 915, 965
 Korobkin, V. V. and —, 915
- Vaicek, A., 639
- Vaishya, J. S.,
 Kandpal, H. C., Saxena, K., Mehta, D. S., — and Joshi, K. C., 200
 Kandpal, H. C., —, Chander, M., Saxena, K., Mehta, D. S. and Joshi, K. C., 318
 Kandpal, H. C., — and Joshi, K. C., 323
- Valley, J. F.,
 Slusher, R. E., Hollberg, L. W., Yurke, B., Mertz, J. C. and —, 1054, Fig. 21.5, 1064, 1098
- van Cittert, P. H., 147, 188
- van der Corput, J. G., 131
- van der Pol, B., 911
- Van Hove, L., 409, 878, 880, 883
- van Kampen, N. G., 131, 412, 414
- Vanasse, G. A.,
 Strong, J. and —, 388
 — and Sakai, H., 388
- Varga, P.,
 Adám, A., Jánosy, L. and —, 713
- Varro, S.,
 Schleich, W., Horowicz, R. J. and —, 495
- Vašček, A., 639
- Venkatesan, T. N. C.,
 Gibbs, H. M. and —, 784
 Gibbs, H. M., McCall, S. L. and —, 822, 824, 831, Fig. 16.13
- Verdet, E., 147, 153
- Vernon, F. L., Jr.,
 Feynman, R. P., — and Hellwarth, R. W., 751
- Vetri, G.,
 Agarwal, G. S., Brown, A. C., Narducci, L. M. and —, 841, 885
- Vialle, J.-L.,
 Picqué, J.-L. and —, 794, Fig. 15.14
- Ville, J., 93
- Vogel, W.,
 Schubert, M. and —, 495
 — and Schleich, W., 495
 — and Welsch, D.-G., 492
- Vollmer, H. D.,
 Mayr, M., Risken, H. and —, 915, 1019
 Risken, H. and —, 915, 924, 946, 947, 948, Fig. 18.19, Fig. 18.20, 957, Fig. 18.27
- von Laue, M., 65, 147
- Vreken, Q. H. F.,
 Gibbs, H. M., — and Hiksipoors, H. M. J., 847, Fig. 16.20, 850
 Polder, D., Schuurmans, M. F. H. and —, 850
- Walker, J. G. and Jakeman, E., 720
- Walls, D. F., 1034
 Carmichael, H. J. and —, 738, 787, 885

- Walls, D. F., (*cont.*)
 Collett, M. J. *and* —, 1054, 1056
 Collett, M. J. — *and* Zoller, P., 1056
 Milburn, G. J. *and* —, 1053, 1100
 Milburn, G. J., Lane, A. S. *and* —, 1100
 Reid, M. D. *and* —, 653, 657, 1053, 1064
 Tucker, J. *and* —, 1074
 — *and* Milburn, G. J., 887
 — Drummond, P. D., Hassan, S. S. *and*
 Carmichael, H. J., 829
 — *and* Zoller, P., 1053, 1056, 1063
- Walther, A., 294, 295
 Walther, H., 755
 Cresser, J. D., Häger, J., Leuchs, G., Rateike,
 M. *and* —, 720
 Hartig, W., Rasmussen, W., Schieder, R. *and*
 —, 755
 Schieder, R., — *and* Wöste, L., 794
- Wang, L. J.,
 Ou, Z. Y., — *and* Mandel, L., 1078, 1080,
 1088, 1090, Fig. 22.7
 Ou, Z. Y., —, Zou, X. Y. *and* Mandel, L.,
 1088, Fig. 22.8
 —, Zou, X. Y. *and* Mandel, L., 1091
 Zou, X. Y., — *and* Mandel, L., 1079, 1091,
 Fig. 22.9, Fig. 22.10, Fig. 22.11
- Wang, Y. K. *and* Lamb, W. E., Jr., 941
 Watson, G. N., 121, 248
 Whittaker, E. T. *and* —, 128
- Watts, R. N.,
 Lett, P. D., Phillips, W. D., Rolston, S. L.,
 Tanner, C. E., — *and* Westbrook, C. I.,
 801, 802, Fig. 15.18
 Lett, P. D., —, Westbrook, C. I., Phillips,
 W. D., Gould, P. L. *and* Metcalf, H. J., 802
 Westbrook, C. I., —, Tanner, C. E.,
 Rolston, S. L., Phillips, W. D., Lett, P. D.
and Gould, P. L., 796
- Weaver, R. L. *and* Pao, Y., 385
 Wehlau, W.,
 Brannen, E., Ferguson, H. I. S. *and* —, 713
 Weidlich, W. *and* Haake, F., 888, 890
 Weinberg, D. L.,
 Burnham, D. C. *and* —, 1074, 1084
- Weinreich, G.,
 Franken, P. A., Hill, A. E., Peters, C. W. *and*
 —, 1069, 1070
- Weiss, C. O.,
 — *and* King, H., 970
 —, Godone, A. *and* Olafsson, A., 970
 —, Klishche, W., Ering, P. S. *and* Cooper,
 M., 970, Fig. 18.36
- Weiss, D. S.,
 Ungar, P. J., —, Riis, E. *and* Chu, S., 803
 —, Riis, E., Shevy, Y., Ungar, P. J. *and*
 Chu, S., 802
- Weiss, G. H., 70, 75, 1013
 Oppenheim, I., Shuler, K. E. *and* —, 878
- Welling, H.,
 Gerhardt, H., — *and* Güttner, A., 961
 Güttner, A., —, Gericke, K. H. *and* Seifert,
 W., 961, Fig. 18.31, Fig. 18.32
- Welsch, D.-G.,
 Vogel, W. *and* —, 492
- Welton, T. A., 509
 Callen, H. B. *and* —, 867, 870
- Wentzel, G., 288
- Wessner, J. M., Anderson, D. K. *and* Robiscoe,
 R. T., 761, 774
- Westbrook, C. I.,
 Lett, P. D., Phillips, W. D., Rolston, S. L.,
 Tanner, C. E., Watts, R. N. *and* —, 801,
 802, Fig. 15.18
 Lett, P. D., Watts, R. N., —, C. I., Phillips,
 W. D., Gould, P. L. *and* Metcalf, H. J., 802
 —, Watts, R. N., Tanner, C. E., Rolston,
 S. L., Phillips, W. D., Lett, P. D. *and*
 Gould, P. L., 796
- Weyl, H., 120, 179
- Whitley, R. M.,
 Renaud, B., — *and* Stroud, C. R., Jr., 782
- Whittaker, E. T.,
 — *and* Watson, G. N., 128
- Wiener, N., 56, 86, 147
 Paley, A. R. E. A. C. *and* —, 94, 385
- Wigner, E. P., 296, 541, 559, 648
 Newton, T. D. *and* —, 480, 629
- Wilhelmi, B.,
 Schubert, M. *and* —, 1069, 1070
- Wineland, D. *and* Dehmelt, H., 799
- Wittke, J. P.,
 Dicke, R. H. *and* —, 835
- Wódkiewicz, K.,
 Su, C. *and* —, 657
 — *and* Eberly, J. H., 766
- Wolf, E., 58, 65, 147, 163, 173, 178, 182, 214,
 Fig. 5.11, 287, 303, 307, Fig. 5.32, 320, 327,
 Fig. 5.48, Fig. 5.49, 330, 331, 342, 355, 365,
 384, 389, 411, 422, 559, 560, 568, 579, 619
- Agarwal, G. S. *and* —, 108, 147, 214, 433
 Agarwal, G. S., Friberg, A. T. *and* —, 1099
 Agarwal, G. S., Foley, J. T. *and* —, 307
- Born, M. *and* —, 132, 147, 154, 157, 161,
 167, 179, 187, 190, 191, 271, 288, 351, 355,
 397, 402, 639, 767, 808
- Boyd, R. W., Habashy, T. M., Jacobs, A. A.,
 Mandel, L., Nieto-Vesperinas, M.,
 Tompkins, W. R. *and* —, 1099, Fig. 22.15,
 Fig. 22.16
- Carter, W. H. *and* —, 65, Fig. 5.3, 239, Fig.
 5.5, 243, Fig. 5.8, 249, 297
- Collett, E. *and* —, 251
- Dialetis, D. *and* —, 384
- Foley, J. T. *and* —, 303, Fig. 5.30, 332, 411
- Friberg, A. T. *and* —, 172, 285, 406, 408
- Friberg, A. T., Agarwal, G. S., Foley, J. T.
and —, 307
- Gamliel, A. *and* —, 312
- James, D. F. V., Kandpal, H. C. *and* —, 173
- James, D. F. V., Savedoff, M. P. *and* —,
 327, 411
- James, D. F. V. *and* —, 317, Fig. 5.39, 318,
 Fig. 5.40, 327, 411, Fig. 7.9
- Kandpal, H. C. *and* —, 254
- Kano, Y. *and* —, Fig. 13.2
- Kim, K. *and* —, 307

- Wolf, E., (*cont.*)
 Kim, K., Mandel, L. *and* —, 356, 362
 Li, Y. *and* —, 244
 Mandel, L. *and* —, 65, 169, 171, 180, 197,
 205, 396, 712, 735
 Mandel, L., Sudarshan, E. C. G. *and* —,
 439, 626, 706, 736
 Marchand, E. W. *and* —, 273, 294, 295, 297
 Mehta, C. L. *and* —, 364, 367, 370, 372,
 668, Fig. 13.2, Fig. 13.3
 Mehta, C. L., — *and* Balachandran, A. P.,
 200
 Miyamoto, K. *and* —, 113
 Nieto-Vesperinas, M. *and* —, 640
 Roman, P. *and* —, 365, 367
 Srinivas, M. D. *and* —, 75, 867
 Starikov, A. *and* —, 261, 262, Fig. 5.17
 — *and* Agarwal, G. S., 389
 — *and* Carter, W. H., 65, 171, 239, 299, Fig.
 5.26
 — *and* Collett, E., Fig. 5.12
 — *and* Devaney, A. J., 213
 — *and* Fienup, J. R., 323
 — *and* Foley, J. T., 399, 406, 407, 418
 — *and* Mehta, C. L., 734
 —, Foley, J. T. *and* Gori, F., 335, 337, 413
 —, Devaney, A. J. *and* Foley, J. T., 211
 —, Devaney, A. J. *and* Gori, F., 213
 Wong, N. C.,
 Shapiro, J. H., Shepard, S. R. *and* —, 495
 Woolley, R. G., 690
 Wooters, W. K. *and* Zurke, W. H., 1022
 Wöste, L.,
 Schieder, R., Walther, H. *and* —, 794
 Wu, F. Y., Grove, R. E. *and* Ezekiel, S., 755,
 Fig. 15.10
 Wu, H.,
 Wu, L. A., Kimble, H. J., Hall, J. *and* —,
 1054, Fig. 21.6
 Wu, L. A., Kimble, H. J., Hall, J. *and* Wu, H.,
 1054, Fig. 21.6
 Yaglom, A. M., 8, 45, 57, 59
 Yakovlev, V. P.,
 Kazantsev, A. P., Ryabenko, G. A.,
 Surdutovich, G. I. *and* —, 799
 Yamamoto, Y.,
 Imoto, N., Haus, H. A. *and* —, 1100, 1102
 Kitagawa, M. *and* —, 1102
 Machida, S. *and* —, 738
 Yariv, A., 1055, 1069, 1073, 1074
 — *and* Pepper, D. M., 1064, 1093
 Yeh, Y.,
 Cummins, H. Z., Knable, N. *and* —, 464
 Yong, S.,
 Albano, A. M., Aboundadi, J., Chyba, T. H.,
 Searle, C. E., —, Gioggia, R. S. *and*
 Abraham, N. B., 972
 Yuen, H. P., 531, 1036, 1038, 1039, 1046, 1047,
 1049
 Shapiro, J. H., — *and* Machado Mata, J. A.,
 1049, 1052
 — *and* Chan, V. W. S., 1054, 1056
 — *and* Shapiro, J. H., 640, 1049, 1052, 1053,
 1056, 1064, 1094, 1097
 Yurke, B., 695, 1053, 1057, 1064
 Slusher, R. E., Hollberg, L. W., —, Mertz,
 J. C. *and* Valley, J. F., 1054 Fig. 21.5, 1064,
 1098
 Zaidi, H. R.,
 Fan, H. Y., — *and* Klauder, J. R., 1034
 Zak, J., 495
 Zardecki, A.,
 Bures, J., Delisle, C. *and* —, 733
 — *and* Delisle, C., 733
 Zeiger, H. J.,
 Gordon, J. P., — *and* Townes, C. H., 900
 Zel'dovich, B. Ya,
 — *and* Klyshko, D. N., 1074
 —, Pilipetsky, N. F. *and* Shkunov, V. V.,
 1098
 Zernike, F., 147, 188
 Zhelnov, B. L.,
 Smirnov, V. S. *and* —, 979
 Zhu, S. Y.,
 Scully, M. O., — *and* Gavrielides, A., 901
 Narducci, L. M., Doss, H. M., Ru, P., Scully,
 M. O., — *and* Keitel, C., 901
 Zienau, S.,
 Power, E. A. *and* —, 689
 Zimmerman, M.,
 Caves, C. M., Thorne, K. S., Drever, R. W.
 P., Sandberg, V. D. *and* —, 1100
 Zinn-Justin, J.,
 Dalibard, J., Raimond, J. M. *and* —, 803
 Zoller, P.,
 Collett, M. J., Walls, D. F. *and* —, 1056
 Walls, D. *and* —, 1053, 1056, 1063
 Zou, X. Y.,
 Ou, Z., Wang, L. J., — *and* Mandel, L.,
 1088, Fig. 22.8
 Wang, L. J., — *and* Mandel, L., 1091
 —, Wang, L. J., *and* Mandel, L., 1079,
 1091, Fig. 22.9, Fig. 22.10, Fig. 22.11
 Zubairy, M. S.,
 Foley, J. T. *and* —, Fig. 5.22, Fig. 5.23
 Zurke, W. H.,
 Wooters, W. K. *and* —, 1022
 Zwanzig, R., 878, 880, 883
 Zweifel, P. F.,
 Imre, K., Özizmir, E., Rosenbaum, M. *and*
 —, 296

Subject index

- absolute integrability, 214
 absorber, 358
 absorption coefficient, 817
 absorption operator (*see also* annihilation operator – configuration space), 574
 absorption probability, 763
 acoustical source, 312
 adiabatic elimination, 934
 adiabatic following, 754
 amplifier, 1021 *et seq.*
 amplifier gain, 1024
 amplitude transmission function, 118, 174
 amplitude-squared squeezing, 1067
 analytic signal, 93 *et seq.*, 340
 angular correlation function, 273
 angular momentum operator, 486
 angular spectrum representation, 109 *et seq.*
 angular spread of Gaussian beam, 271
 anharmonicity parameter, 1102
 annihilation operator, 479, 1039
 configuration space, 487, 566
 anode, 692
 anti-bunching, 719–720
 anti-commutator, 742
 anti-Stokes line, 418
 anti-superradiance, 841
 antinormal ordering, 518
 aperture, 239
 area theorem (McCall and Hahn), 817
 arrow of time, 898
 asymptotic approximation, 128
 asymptotic expansion, 128
 atomic density, 910
 atomic hydrogen, 745
 atomic interactions, 805 *et seq.*, 839 *et seq.*
 atomic system, 612, 683
 autocorrelation function, 43, 55
 axial mode, 906
- back-action evading variable, 1102
 backward Fokker–Planck equation, 1014
 bandwidth, 62, 177
 basis vector, 536
 Bayes' theorem, 6
 beam angular spread, 282
 beam condition, 265, 275, 277
 beam expansion coefficient, 279, 282
- beam radius, 282
 beam spectral coherence width, 284
 beam splitter, 316, 511, 639 *et seq.*
 beam waist, 270
 Beer's law, 303
 Bell's inequality, 652
 Bernoulli distribution, 21
 Bessel correlated source, 250
 Bessel function, 121, 192, 297
 bi-orthogonal series, 391
 Bienayme–Chebyshev inequality, 16
 binomial sum, 702
 bistability, 822 *et seq.*
 blackbody radiation, 65, 158, 297, 659 *et seq.*
 higher-order correlations, 670
 isotropy, 671
 photon statistics, 660–663
 blackbody source, 297
 Blaschke factor, 385–386
 Bloch equations, 750, 753
 Bloch representation, 746 *et seq.*
 Bloch state, 855
 blueshift, 312
 Bochner's theorem, 18
 Boltzmann distribution, 659
 Born approximation (first-order), 403
 Bose–Einstein distribution, 25, 451
 boson, 479
 bound state, 692
 boundary value
 cross-spectral density, 239, 275
 field, 115, 304
 brightness, 293
 Brillouin doublets, 401, 415, 418
 Brown–Twiss effect, 458, 643, 708
 Brownian motion, 84, 876
 bunching, 448, 712 *et seq.*
- Campbell theorem, 453
 Campbell–Baker–Hausdorff theorem, 519
 canonical ensemble, 659
 canonical equations of motion, 473
 canonical variables, 472
 cascaded system, 360
 Casimir force, 508
 cathode, 692
 Cauchy distribution, 11, 17

- Cauchy integral formula, 95
 causality, 96
 cavity (laser), 905–907
 cavity mode, 902, 903, 905
 central limit theorem, 30
 chaos, 832, 967
 chaotic radiation, 674
 characteristic function, 17, 557
 characteristic functional, 45, 564
 Chebyshev inequality, 15
 classical optics, 465
 classical state of light, 541
 Clauser–Horne form of Bell’s inequality, 653
 coarse-grained derivative, 934
 coherence
 complete, 200–207
 degree of, 163, 169, 171
 longitudinal, 149, 233
 of laser resonator modes, 389–396
 quantum, 590 *et seq.*
 transverse, 151, 233
 coherence area, 151
 coherence matrix, 343
 coherence tensor, 363
 coherence theory of laser modes, 389 *et seq.*
 coherence time, 106, 148, 177
 coherence volume, 155
 coherent mode representations, 214 *et seq.*, 261, 433
 coherent state
 atom, 852–858
 field, 522 *et seq.*
 two-photon, 1039, 1046–1051
 coherent state (field) representation, 538 *et seq.*
 coincidence detection, 713–714
 collective atomic interactions, 805 *et seq.*
 commutation relations, 473, 474, 502
 compensator, 342, 357
 complement of an event, 2
 complementarity, 1106
 completeness, 440
 complex degree of coherence, 163
 complex envelope, 101
 composition law of probabilities, 4
 conducting plates, 508
 conservation law for probability, 81
 constitutive relations, 396–397, 402
 cooling (atomic), 799–803
 cooperation number, 835, 841
 cooperativity parameter, 829
 correlation coefficient, 14
 correlation function (quantum)
 anti-normally ordered, 611 *et seq.*
 normally ordered, 567, 584 *et seq.*
 correlation function of dielectric susceptibility, 406
 correlation functions of fields obeying Gaussian statistics, 428–432
 correlation time, 62
 correspondence principle, 476
 cosine operator, 494
 Coulomb gauge, 466, 687
 counting rate – spontaneous, 615
 coupled system, 683
 covariance, 14
 covariance matrix, 62, 343
 creation operator
 configuration space, 487, 566
 photon, 479, 1039
 critical opalescence, 415
 critical points, 129
 cross-correlation function, 62, 423
 cross-correlation matrix, 62
 cross-spectral density, 63, 170, 427, 588
 cross-spectral purity, 196–200
 cumulant, 19
 Curie temperature, 913
 current (classical) – field of, 568
 damping term (phenomenological), 755
 de Broglie relation, 157
 Debye’s theory of specific heats, 415
 deflection (atomic) by light, 790 *et seq.*
 degeneracy parameter, 158
 degenerate four-wave mixing, 1093 *et seq.*
 degree of angular correlation, 274
 degree of coherence
 complex, 163
 global, 262
 spectral, 171
 degree of polarization, 354
 density of states, 443
 density operator, 481, 684, 686, 692
 dephasing of atomic dipoles, 807
 depolarization, 356
 determination of angular diameters of stars, 379
 dichotomic observable, 651
 Dicke state, 834–839
 dielectric (nonlinear), 584, 1073
 dielectric response of fluctuating medium, 396–401
 dielectric susceptibility, 396, 584, 1073
 differential scattering coefficient, 302
 diffusion coefficient, 77
 diffusion process, 86
 dipole approximation, 688
 dipole force, 791
 dipole moment (atomic), 744
 Dirac delta function, 96, 548
 direction cosines, 471
 Dirichlet discontinuous integral, 632
 Dirichlet problem, 125
 dispersion relations, 96
 displacement operator, 516, 526, 852
 Doppler limit for cooling atoms, 802
 drift coefficient, 77
 Dugundji’s theorem, 101
 dynamical structure factor, 411
 echo pulse, 812
 effective field, 823
 effective linear source dimension, 238
 efficiency factor – source, 299
 eigenfunction, 215
 eigenvalue, 215
 Einstein *A*-coefficient, 765
 Einstein–Podolsky–Rosen (EPR) paradox, 648 *et seq.*
 electric coherence matrix, 363
 electric cross-spectral density tensor, 369
 electric displacement vector, 402, 690

- electric energy density (average), 341, 365, 371
 electric field vector, 340
 electric Hertz vector, 402
 electromotive force (e.m.f.), 868
 elliptic integral K of first kind, 554
 embedding dimension, 972
 emission probability, 614
 energy (atomic), 744
 energy – nonlinear medium, 1069–1070
 energy conservation law, 288, 290
 energy density, 288
 energy flux density vector, 288
 energy level structure, 612
 ensemble, 7, 218, 275
 ensemble average, 42
 entangled quantum state, 648, 1082
 entire analytic function, 538
 entropy (thermodynamic), 924
 equal-time correlation function, 168
 equation of radiative energy transfer, 302
 equations of motion – field operators, 503
 equipartition law, 869
 equivalence theorem for radiant intensity, 251, 256
 ergodicity, 48
 evanescent plane waves, 113 *et seq.*
 even-order correlation function, 424
 events, 1
 exit pupil, 187
 expectation value, 11, 474
 exponential distribution, 108
 exponential filter, 386
 exponential operator, 525
 extinction coefficient, 302

 Fabry–Perot interferometer, 824, 901
 factorial moment, 12
 factorial moment generating function, 16
 fair sampling hypothesis, 653
 far-zone approximation, 127, 230, 240
 far-zone coherence angle, 285
 Fermi Golden Rule, 871
 fermion, 742
 ferromagnetic material, 913
 field component (quadrature), 1035
 field correlations, 153, 159
 field of classical current, 568
 field operator, 566
 fields obeying Gaussian statistics, 428, 436
 filtered light, 175
 first passage time, 1013
 fluctuation spectroscopy, 463
 fluctuation-dissipation theorem, 869, 875
 Fock space, 478–479, 514, 1047
 Fock space – continuous, 513
 Fock state representation, 480, 523, 565
 Fokker–Planck equation, 79
 backward, 1014
 Fourier spectroscopy, 388
 Fourier–Stieltjes integral, 57
 Fox–Li modes, 394
 Fraunhofer diffraction formula, 117
 Fredholm integral equation, 67, 215, 391
 free electron energy state, 693
 free induction decay (optical), 805–808

 Fresnel integral, 132
 Fresnel transform, 267
 fringe visibility, 166, 376
 frozen atmosphere model, 412

 gain medium, 901
 Gamma distribution, 30
 gas discharge tube, 900
 Gauss' theorem, 288
 Gaussian, quasi-homogeneous source, 237
 Gaussian beam, 267
 Gaussian distribution, 27–37
 Gaussian error function, 925
 Gaussian mode, 906
 Gaussian moment theorem, 36, 38
 Gaussian random process, 44, 107
 Gaussian Schell-model beam, 276
 Gaussian Schell-model source, 253
 Gaussian statistics, 428 *et seq.*
 generalized radiance, 294 *et seq.*
 generalized structure function, 410
 generalized Wiener–Khinchine theorem, 63
 geometrical trajectory, 287
 Glauber–Sudarshan P -representation, 540
 global coherence, 262
 gradient force, 791
 Green's function, 120, 127, 210, 267, 405
 Green's theorem, 138
 ground state, 475

 half space, 112
 Hamiltonian (quantum) – interaction, 687, 689–691
 Hamiltonian (classical), 472
 Hamiltonian of quantized radiation field, 474–478
 Hanbury Brown–Twiss effect
 semi-classical treatment, 458
 quantum treatment, 708
 Hankel transform formulas, 121
 harmonic generation, 1070–1073
 harmonic oscillator, 473, 475, 888
 He:Ne laser, 156
 Heaviside unit step function, 694
 Heisenberg equation of motion, 483, 683
 Heisenberg picture, 529
 Heisenberg uncertainty relation, 156
 helicity, 491
 Helmholtz equation, 109, 181
 Hermite polynomial, 261
 Hermite–Gaussian function, 262
 Hermitian operator, 440
 Hermiticity, 47
 hidden variable, 649, 651
 higher-order correlations, 422
 Hilbert space, 440, 473, 683
 Hilbert transform, 94
 Hilbert–Schmidt kernel, 67, 215
 homodyne detection, 1052
 homogeneity (statistical), 228, 607–609
 homogeneous broadening, 806
 homogeneous plane waves, 111
 Huygens–Fresnel principle, 186
 hyperbolic secant 2π -pulse, 758–760, 820
 hysteresis, 828–829

- ideal squeezed state, 1042–1045
 idempotency condition, 359
 idler photon, 1074
 impedance (generalized), 870
 impulse response (*see also* propagator), 188
 inclination factor, 187
 incoherent light, 166
 index of refraction, 397
 inductor, 868
 information dimension (order 2), 972
 inhomogeneous broadening, 805
 inhomogeneous lifetime, 806
 inhomogeneous wave equation, 193
 integrated intensity operator, 725
 intensity (instantaneous), 108, 161
 intensity fluctuations, 429, 447
 intensity interferometer, 462
 intensity operator, 576
 interaction energy, 440, 683, 689, 690
 interaction picture
 operator evolution, 684
 Schrodinger equation of motion, 685
 interference fringes, 148, 150, 176
 interference spectroscopy, 381 *et seq.*
 interferometric equivalence principle, 318
 intersection of events, 2
 intrinsic (spin) angular momentum operator, 490,
 intrinsic indistinguishability, 157
 invariance property of Gaussian Schell-model
 beam, 284
 irreversibility, 898
 isotropy (statistical), 228, 609–611
- Jacobi polynomial, 1005
 Johnson noise, 868
 Jones' matrix calculus, 355 *et seq.*
- Karhunen–Loève expansion, 66
 Kerr effect, 1102
 ket, 474
 kinetic momentum (electron), 691
 Kolmogorov entropy (order 2), 974
 Kolmogorov equation, 1014
 Kramers–Moyal differential equation, 77
 Kronecker symbol, 368
 kurtosis, 12
- Lamb shift, 509, 771
 Lambertian source, 248
 Langevin equation, 80, 891, 916
 Laplace transform, 776
 laser (single mode), 389 *et seq.*, 900 *et seq.*
 coherent state representation of field,
 941–945
 coupling constant, 931
 field correlation functions, 955 *et seq.*
 Fokker–Planck equation, 916 *et seq.*
 gain and loss coefficients, 903, 911
 instabilities, 965 *et seq.*
 intensity moments (steady state), 924–929
 master equation, 931–936
 phase transition analogy, 921–924
 quantum theory, 929 *et seq.*
 responsivity (susceptibility), 914
 semiclassical theory, 903 *et seq.*
 spectral density, 960
 threshold of oscillation, 911
 laser (two-mode, ring), 976 *et seq.*
 coupling, constant, 979
 field correlation functions, 1008–1011
 Fokker–Planck equation, 981–984
 intensity moments (steady state), 984–986
 metastable state, 996
 mode asymmetry parameter, 985
 mode switching, 1012–1018
 phase transition analogy, 989 *et seq.*
 laser resonator, 390
 laser source, 254
 latent heat – phase transition, 1000
 Levi-Civita antisymmetric unit tensor, 365
 light amplifier (linear), 1021 *et seq.*
 light cone, 502
 linear dissipative system, 867–871
 linear momentum operator, 484
 linearly polarized field, 409, 411
 Liouville operator, 880
 local hidden variable theory, 651 *et seq.*
 local spatial coherence, 235
 local time average, 89
 locally averaged fields, 506
 longitudinal coherence, 149, 233
 Lorentz–Lorenz relation, 397
 Lorentzian function, 417
 Lorenz model of fluid flow, 967
 loss mechanism, 901
 lowering operator (atomic), 742
 Lyapunov exponent, 972
- Mach-Zehnder interferometer, 1021
 magnetic coherence matrix, 363
 magnetic cross-spectral density, 369
 magnetic energy density, 341, 365, 371
 magnetic field vector, 340
 magnetic Hertz vector, 403
 magnetic induction vector, 402
 magnetic susceptibility, 914
 magnetization vector, 402
 Markov approximation, 770, 884
 Markov process, 72
 maser, 900
 master equation, 74, 877 *et seq.*
 Maxwell's equations, 365, 402, 466
 Maxwell–Bloch equations, 815, 825
 McCall and Hahn area theorem, 817
 Mercer's theorem (expansion), 68, 215, 393
 metastable level, 612
 method of stationary phase, 128 *et seq.*
 method of steepest descents, 131
 Michelson interferometer, 148, 381, 643 *et seq.*
 Michelson stellar interferometer, 376
 microphone, 315
 minimum phase, 385
 minimum spot size, 268
 mixed coherence matrix, 363
 mixed cross-spectral density tensor, 369
 modes, 111, 216, 501
 molecular polarizability, 396
 moment generating function, 16
 moment theorem for Gaussian distributions, 36 *et seq.*

- momentum conservation, 1074
 monochromatic fields, 263 *et seq.*, 398
 Mueller matrix, 362
 multinomial theorem, 600
 mutual coherence function, 163
 mutual intensity, 169
 mutually exclusive probabilities, 536

 natural lifetime (atomic state), 765
 natural light, 350
 natural lineshape (atomic state), 773
 natural modes of oscillation, 221
 negative binomial, 681
 net flux vector, 301
 Neumann problem, 126
 non-classical state of light, 541, 625
 non-locality, 650, 1082
 non-negative definiteness, 18, 53
 non-negative definiteness condition, 364
 non-radiative coupling, 612
 nonlinear optics – quantum effects, 1069 *et seq.*
 normal mode (cavity), 905
 normal ordering, 475, 487, 518, 538, 578, 579
 number operator (photon), 478, 479
 configuration space, 630 *et seq.*
 moments of, 626–629
 pseudo, 1047

 occupation number (photon)
 definition, 478
 probabilities, 623–625
 Ohm's law (generalized), 876
 opaque planar screen, 239
 operator ∇ ($-\nabla^2$), 209
 operator algebra, 515
 operator derivative theorem, 518
 operator expansion theorem, 516
 operator ordering, 559
 optical devices – non-image forming, 355
 optical equivalence theorem, 556, 559, 564
 optical imaging system, 118
 optical intensity, 320
 optical molasses, 800–802
 optical nutation, 755
 optical period, 161
 optical system, 187
 orbital angular momentum, 489
 order parameter, 914
 orthonormality, 66, 216, 440
 mutual, 217
 over-completeness, 535

 $P(\{v\})$ functional (also denoted by $\phi(\{v\})$), 564
 Paley–Wiener condition, 385
 parametric down-conversion, 1054, 1074 *et seq.*
 multimode treatment, 1079–1082
 photon statistics, 1076–1079
 signal/idler time separation, 1084–1087
 paraxial equation, 266
 Parseval's theorem, 178
 partial coherence, 166
 partially coherent beams, 272 *et seq.*
 partially correlated sources, 308
 partially polarized light, 354
 path delay, 165

 Pauli master equation, 75, 878–880
 Pauli spin operators, 349, 743
 Pegg–Barnett phase operator, 496
 phase anomaly near focus, 271
 phase conjugation, 1098–1099
 phase function, 142
 phase matching, 1073
 phase operator, 492 *et seq.*
 phase problem, 384
 phase space, 156
 phase space cell, 156
 phase space density, 540 *et seq.*
 coherent state and superposition of two coherent
 states, 546, 550
 Fock state, 549
 integral representation, 545
 randomly phased laser, 547
 thermal light, 548
 phase space distribution function, 295, 1035
 phase space functional, 564, 618–622
 phase transition, 913–916, 921–924
 first-order (discontinuous), 924, 995
 second-order (continuous), 924, 994
 photoelectric correlations, 707 *et seq.*
 photoelectric counting statistics, 723 *et seq.*
 photoelectric current
 correlations, 452 *et seq.*, 709–712
 pulse, 453
 photoelectric detection, 573 *et seq.*, 683 *et seq.*
 probability, 443–446, 575–577, 696, 705, 724 *et seq.*
 photoelectric detector, 438, 458, 581, 694
 response time, 456
 photoelectric effect, 438
 photoelectric pulses – time interval distribution,
 720–723
 photomultiplier, 438
 photon, 439, 479
 density operator, 580
 echo, 809–813
 energy wave function, 637
 localization, 629 *et seq.*
 localized, 480
 number squeezed state, 1045
 polychromatic, 636
 position wave function, 636
 statistics, 622 *et seq.*
 pinhole plane, 317
 Plancherel's theorem, 93
 Planck spectrum 317
 plane wave (mode), 111, 467
 plane wave expansion (*see also* angular spectrum
 representation), 467, 471, 483
 Plank's distribution law, 665
 Pockels, cell, 953
 Poisson distribution, 23
 polarization (induced), 396–401
 polarization
 circular, 470
 degree of, 354
 ellipse, 470
 elliptical, 469
 linear, 468
 matrix, 343
 vector (induced, 396, 584, 1070)

- polarized (completely) light, 351
 polarizer, 342, 359, 647
 population inversion (atomic), 744, 901, 911
 positive definiteness, 68
 potential condition – drift coefficients, 918, 982
 power dissipation, 871–872
 power series expansion, 555
 power spectrum, 313
 Poynting vector (average), 341, 365, 371
 primary source, 193, 229
 principle of detailed balance, 878
 probability, 1 *et seq.*
 conditional, 5, 71
 joint, 3, 43
 probability amplitude, 574
 probability current, 81, 918
 probability density, 5
 probability functional, 45
 product state (atomic), 834
 product theorem for Gaussian functions, 337
 projection operator, 440, 474
 propagation
 of coherence tensors, 367
 of correlations, 180 *et seq.*, 193
 of cross-spectral density tensors, 372
 propagator, 188, 390
 pseudo photon number operator, 1047
 pulse area, 757
 pulse correlation measurements (two-time),
 714–719
 pump (optical), 901
 pump parameter, 912
 pupil mask, 325
- Q -parameter, 627
 q -representation, 482, 528
 $Q(\{v\})$ functional, 618–622
 quadratic forms, 135
 quadrature squeezing (light), 1034 *et seq.*
 quantization of radiation field, 473
 quantum counter, 612 *et seq.*
 quantum efficiency – photodetector, 444, 581
 quantum noise, 887 *et seq.*
 quantum non-demolition (QND) measurements,
 1100–1106
 quantum state – pure and mixed (impure), 746
 quasi-homogeneous source
 planar, secondary, 242
 three-dimensional, primary, 234
 quasi-mode, 905
 quasi-monochromatic approximation, 698
 quasi-monochromatic light, 160
 quasi-probability, 295, 541
 quasi-stationary field, 779, 1059
- Rabi frequency, 752
 Rabi oscillation, 755, 777
 radiance
 field, 304
 generalized, 294 *et seq.*
 quasi-homogeneous source (short wavelength
 limit), 305
 source, 293
 radiant cross-intensity, 230
 radiant emittance, 296
- radiant intensity, 231
 radiation
 from planar, secondary sources, 239 *et seq.*
 from three-dimensional primary source, 229 *et
 seq.*
 pattern, 112
 rate, 292
 radiative coupling, 612
 radiative energy transfer, 301
 radiometric laws (postulates), 292 *et seq.*
 radiometry, 287 *et seq.*
 raising operator (atomic), 742
 random phase assumption, 879, 894
 random process, 41
 random walk, 84
 Rayleigh diffraction formulas, 125–127
 Rayleigh distribution, 108
 Rayleigh line, 415, 418
 reactance (generalized) 871
 receiver response function, 507
 reciprocity inequality, 179, 214
 reciprocity relations
 3D, primary, quasi-homogeneous sources, 236
 Gaussian Schell-model sources (beams), 285
 planar, secondary, quasi-homogeneous sources,
 243
 redshift, 312
 reduction formula for cross-spectrally pure light,
 199
 regression theorem (quantum), 860 *et seq.*
 regularization, 637
 reproducing property, 32
 reservoir (quantum), 860, 888
 resistance (generalized), 871
 resolving time, 161
 resonance fluorescence, 774 *et seq.*
 resonator, 900, 906
 Riemann zeta functions, 665
 ring laser, 976 *et seq.*
 rotating frame of reference, 753
 rotating wave approximation, 753
 rotation generator, 611
 rotation matrix, 610
 rotation of coordinate system, 347
 rotator, 358
 ruby laser, 612
- scalar product, 440
 scaling law, 330
 scattered field, 402–404, 406
 spectral density, 408, 413, 416
 scattering
 from deterministic media, 401 *et seq.*
 from random media, 406 *et seq.*
 from two-level atoms, 774 *et seq.*
 scattering cross-section, 780
 scattering matrix, 640
 Schell-model source
 planar, secondary, 242
 three-dimensional, primary, 234
 Schrödinger equation, 440, 602, 684
 Schrödinger picture, 529
 Schrödinger wave function
 coherent state, 528
 Fock state, 482

- Schwarz inequality, 53, 79, 586, 593
 secondary source plane, 240
 secondary, planar source, 239
 self-coherence function, 169
 self-induced transparency, 813 *et seq.*
 semiclassical theory, 439
 separable random process, 72
 separation of variables, 946
 shot noise, 455, 1060
 signal photon, 1074
 similarity transformation, 517
 simple fluid, 414
 simultaneous measurement, 502
 sine operator, 494
 single-mode field, 435
 singular D -function, 501
 skewness, 12
 slab geometry, 109
 slowly varying envelope approximation (SVEA), 908
 small angle approximation, 271
 Smoluchowski–Chapman–Kolmogorov relation, 73
 solid angle, 299
 source function, 302
 source reconstruction, 245, 328
 source-integrated cross-spectral density, 232
 space density of radiation, 301
 space-time commutation relations, 500
 spatial coherence, 151
 spatial frequency, 115
 spatial frequency vectors, 231, 247
 spatial translation generator, 608
 spatially incoherent source, 189, 377
 speaker, 312
 specific intensity, 301
 spectral amplitude, 115
 spectral changes (due to source correlations), 307 *et seq.*
 spectral component squeezing, 1063
 spectral cross-correlation function of order (M, N) , 425
 spectral degree of coherence, 171, 233
 spectral density, 57, 59, 171
 spectral distribution function, 664
 spectral interference law, 173, 310
 spectral invariance, 330
 spectral visibility, 173
 spectrum, 59, 171, 328
 spectrum analyzer, 316
 spherical wave, 120
 spin (photon), 491
 spin echo, 809
 spin operators, 743, 833
 spin- $\frac{1}{2}$ particle, 742
 spontaneous emission, 764, 772–774, 915 *et seq.*
 spot size, 270
 spread (averaging) function, 505
 square-integrability, 214
 squeeze operator, 1038–1041, 1056
 squeezed states, 532, 1034 *et seq.*, 1053–1056
 ideal, 1042–1045
 photon number, 1045
 vacuum, 1043
 squeezing
 amplitude-squared, 1067
 degree of, 1063
 full sense, 1058
 higher-order, 1065–1068
 homogeneous and inhomogeneous, 1063
 N 'th order (intrinsic), 1065
 spectral component, 1063
 spectrum of, 1062
 standard deviation, 12
 standard wave field, 796
 star Betelgeuse, 154
 Stark effect (a.c.), 784
 state of definite phase, 495
 state of minimum uncertainty product, 531
 state vector, 474
 static scattering, 413
 stationarity (statistical), 45, 47, 601 *et seq.*
 stationarity in the wide sense, 47
 stationary phase, method of, 128 *et seq.*
 stationary points, 129
 statistical independence, 5
 statistics, Gaussian, 428 *et seq.*
 steepest descent, method of, 131
 Stefan–Boltzmann law, 665
 stellar interferometry, 375, 460
 stimulated emission, 612, 764
 Stirling's theorem, 85
 Stirling's approximation to Γ -function, 938
 stochastic equation, 80
 Stokes lines, 418
 Stokes parameters, 348
 Stokes' law (for particle in a viscous fluid), 876
 Stokes' reciprocity relations, 511, 640
 Stokes' representation, 348
 structure function, 410
 Sturm–Liouville equation, 946, 1003
 sub-Poissonian statistics, 627, 643, 737–738
 Sudarshan's equations, 210
 summation law of probabilities, 4
 super-Poissonian statistics, 643, 737
 superfluorescence, 843
 superradiance, 839 *et seq.*
 symmetric ordering, 475, 541
 synthesized source, 325
 Taylor series, 516
 tempered distribution, 549
 temporal coherence, 148
 temporal filter, 174
 thermal equilibrium, 872
 thermal light beam, 675 *et seq.*
 thermal radiation, 674 *et seq.*
 thermal reservoir, 659
 thermal source, 150, 287
 threshold frequency, 439
 time average, 47
 time evolution
 of free field correlation functions, 211
 operator, 529, 861
 time ordering symbol, 578
 time resolution (intrinsic) – circuit, 713
 time translation generator, 602
 time-to-amplitude converter (TAC), 716

- tipping angle, 757
 traceable operator, 539
 transformation
 of coherence matrix, 356, 360
 of Stokes parameters, 362
 of variates, 9
 transition matrix element, 574
 transition moments, 76
 transition probability, 72, 441
 transition rate, 74
 translation operator, 516
 transmission matrix, 356
 transmitted wave, 511
 transversality, 468
 transverse coherence, 151, 233
 transverse delta function, 503
 trapping (atomic), 799–803
 two-beam interference, 150, 172, 387, 582
 two-lens afocal system, 324
 two-level atom
 cooling/trapping, 799–803
 definition, 741 *et seq.*
 deflection by light, 790 *et seq.*
 interaction with classical field, 749 *et seq.*
 interaction with quantized field, 761 *et seq.*
 momentum transfer, 790 *et seq.*
 two-mode laser model, 90
 two-photon coherent state, 1039
 two-pinhole experiment, 155
- uncertainty product (canonical), 531, 1035
 union of events, 1
 unit polarization vectors, 468
 unitarity principle for probabilities, 723
 unitary matrix, 357
 unpolarized light, 350
- vacuum fluctuations, 504 *et seq.*
 vacuum state, 479, 506, 525
- Van der Waals attraction, 509
 Van Hove time-dependent two-particle correlation function, 409
 van Cittert–Zernike theorem, 190, 377
 van der Pol oscillator, 911
 variance, 12
 vector fields, 340
 vector mode function, 471
 vector potential (electromagnetic), 466, 767
 vector random process, 78
 Venn diagram, 2
 visibility of fringes, 166, 376
 Volterra-type integral equation, 441, 685
- Ω -ordered delta function, 559
 waiting time distribution, 723
 wave equation
 homogeneous, 181
 inhomogeneous, 814
 wave packet, 598
 wave train, 153
 weak law of large numbers, 26
 Wein's displacement law, 665
 Weiss' law, 913
 Weyl ordering, 541
 Weyl representation, 120–125
 white (δ -correlated) noise, 916
 wide-sense stationarity, 47
 Wiener process, 86
 Wiener–Khinchine theorem, 59, 63
 generalized, 63, 427
 Wigner distribution, 295, 541
 Wollaston prism, 653
- Young's interference experiment, 150, 161
- Zernike's propagation law, 189
 zero-point contribution, 475
 Zwanzig's generalized master equation, 881