

References

- H. D. I. Abarbanel and J. B. Bronzan, *Phys. Rev.* **D9**, 2397 (1974*a*)
H. D. I. Abarbanel and J. B. Bronzan, *Phys. Rev.* **D9** 3304 (1974*b*)
H. D. I. Abarbanel, J. B., Bronzan, R. L. Sugar and A. R. White, *Physics Reports*, **21C**, 120 (1975)
H. D. I. Abarbanel, G. F. Chew, M. L. Goldberger and L. M. Saunders, *Phys. Rev. Letters*, **26**, 937 (1971)
H. D. I. Abarbanel, M. L. Goldberger and S. B. Trieman, *Phys. Rev. Letters*, **22**, 500 (1969)
H. D. I. Abarbanel and C. Itzykson, *Phys. Rev. Letters*, **23**, 53 (1969)
H. D. I. Abarbanel, F. E. Low, I. Muzinich, S. Nussinov and J. Schwarz, *Phys. Rev.* **160**, 1329 (1967)
W. J. Abbe, P. Kaus, P. Nath and Y. N. Srivastava, *Phys. Rev.* **154**, 1515 (1967)
E. S. Abers, H. Burkhardt, V. L. Teplitz and C. Wilkin, *Nuovo Cimento*, **42**, 365 (1966)
E. S. Abers, D. Keller and V. L. Teplitz, *Phys. Rev.* **D2**, 1757 (1970)
E. S. Abers and V. L. Teplitz, *Phys. Rev.* **158**, 1365 (1967)
R. K. Adair, *Phys. Rev.* **172**, 1370 (1968)
M. Ademollo, H. R. Rubinstein, G. Veneziano and M. A. Virasoro, *Phys. Rev.* **176**, 1904 (1968)
J. P. Ader, M. Capdeville and H. Navelet, *Nuovo Cimento*, **56A**, 315 (1968)
S. L. Adler and R. F. Dashen, *Current algebras and applications to particle physics* (Benjamin, 1968)
A. Ahmadzadeh, P. G. Burke and C. Tate, *Phys. Rev.* **131**, 1315 (1963)
V. de Alfaro and T. Regge, *Potential scattering* (North-Holland, 1965)
D. Amati, A. Stanghellini and S. Fubini, *Nuovo Cimento*, **26**, 6 (1962*a*)
D. Amati, S. Fubini and A. Stanghellini, *Phys. Letters*, **1**, 29 (1962*b*)
I. Ambats *et al.*, *Nucl. Phys.* **B77**, 269 (1974)
M. Andrews and J. Gunson, *J. Math. Phys.* **5**, 1391 (1964)
M. Armad, Fayyazuddin and Riazuddin, *Phys. Rev. Letters*, **23**, 504 (1969)
R. C. Arnold, *Phys. Rev.* **153**, 1523 (1967)
D. Atkinson, K. Dietz and D. Morgan, *Ann. Phys.* **37**, 77 (1966)
P. Aurenche *et al.*, Building a general framework for hadron collisions, *Proceedings of the 6th international colloquium on multi-particle reactions* (Oxford U.P., 1975)

L. A. P. Balazs, *Phys. Rev.* **128**, 1939 (1962)
L. A. P. Balazs, *Phys. Rev.* **129**, 872 (1963)
N. F. Bali, G. F. Chew and A. Pignotti, *Phys. Rev.* **163**, 1572 (1967)
N. F. Bali, D. D. Coon and J. W. Dash, *Phys. Rev. Letters*, **23**, 900 (1969)
J. S. Ball, W. R. Frazer and M. Jacob, *Phys. Rev. Letters*, **20**, 518 (1968)
K. Bardakci and H. Ruegg, *Phys. Letters*, **28B**, 342 (1968)
V. Barger, in J. R. Smith (ed.), *Proceedings of the 17th international conference on higher energy physics, London* (Rutherford Laboratory, 1974)

- V. Barger and D. Cline, *Phys. Rev. Letters*, **16**, 913 (1966)
- V. Barger and D. Cline, *Phys. Rev.* **155**, 1792 (1967)
- V. Barger and D. Cline, *Phys. Rev. Letters*, **24**, 1313 (1970)
- V. Barger and R. J. N. Phillips, *Phys. Rev.* **167**, 2210 (1969)
- V. Barger and R. J. N. Phillips, *Phys. Letters*, **53B**, 195 (1974)
- V. Bargmann, *Ann. Math.* **48**, 568 (1947)
- M. B. Bari and M. S. K. Razmi, *Phys. Rev.* **D2**, 2054 (1970)
- A. O. Barut, *The theory of the scattering matrix* (MacMillan, 1967)
- A. O. Barut and D. E. Zwanziger, *Phys. Rev.* **127**, 974 (1962)
- D. S. Beder, *Phys. Rev.* **149**, 1203 (1966)
- J. Benecke, T. T. Chou, C. N. Yang and E. Yen, *Phys. Rev.* **188**, 2159 (1969)
- E. L. Berger, *Phenomenology in particle physics* (California Institute of Technology, 1971a)
- E. L. Berger, in *Colloquium on multi-particle dynamics, Helsinki* (1971b)
- E. L. Berger and G. C. Fox, *Phys. Rev.* **188**, 2120 (1969)
- J. Bernstein, *Elementary particles and their currents* (Freeman, 1968)
- L. Bertocchi, S. Fubini and M. Tonin, *Nuovo Cimento*, **25**, 626 (1962)
- H. Bethe and E. E. Salpeter, *Phys. Rev.* **84**, 1232 (1951)
- K. M. Bitar and G. L. Tindle, *Phys. Rev.* **175**, 1835 (1968)
- J. D. Bjorken and S. Drell, *Relativistic quantum fields* (McGraw-Hill, 1965)
- R. Blankenbecler, and H. M. Fried, *Phys. Rev.* **D8**, 678 (1973)
- R. Blankenbecler, J. R. Fulco and R. L. Sugar, *Phys. Rev.* **D9**, 736 (1974)
- R. Blankenbecler, M. L. Goldberger, N. N. Khuri and S. B. Trieman, *Ann. Phys.* **10**, 62 (1960)
- J. M. Blatt and V. F. Weisskopf, *Theoretical nuclear physics* (Wiley, 1952)
- M. J. Bloxam, D. I. Olive and J. C. Polkinghorne, *J. Math. Phys.* **10**, 494, 545, 553 (1969)
- P. Bonamy *et al.*, *Nucl. Phys.*, **B52**, 392 (1973)
- M. Borghini *et al.*, *Phys. Letters*, **31B**, 405 (1970)
- M. Borghini *et al.*, *Phys. Letters*, **36B**, 493 (1971)
- J. F. Boyce, *J. Math. Phys.* **8**, 675 (1967)
- B. H. Bransden, D. Evans and J. V. Major, *The fundamental particles* (Van Nostrand-Reinhold, 1973)
- W. E. Britten and A. O. Barut (eds.), *Lectures in theoretical physics*, vol. 7A (University of Colorado Press, 1964)
- S. J. Brodsky, F. E. Close and J. F. Gunion, *Phys. Rev.* **D5**, 1384 (1972)
- J. B. Bronzan, *Phys. Rev.* **D10**, 746 (1974)
- J. B. Bronzan, I. S. Gerstein, B. W. Lee and F. E. Low, *Phys. Rev.* **157**, 1448 (1967)
- J. B. Bronzan and C. E. Jones, *Phys. Rev.* **160**, 1494 (1967)
- R. C. Brower, R. N. Cahn and J. Ellis, *Phys. Rev.* **D7**, 2080 (1973a)
- R. C. Brower, M. Einhorn, M. Green, A. Patroscioiu and J. H. Weis, *Phys. Rev.* **D8**, 2524 (1973b)
- R. C. Brower, C. E. de Tar and J. H. Weis, *Physics Report*, **14C**, 257 (1974)
- R. C. Brower and J. H. Weis, *Rev. Mod. Phys.* **47**, 605 (1975)
- K. E. Cahill and H. P. Stapp, *Phys. Rev.* **D6**, 1007 (1972)
- K. E. Cahill and H. P. Stapp, *Phys. Rev.* **D8**, 2714 (1973)
- R. Cahn, in J. R. Smith (ed.), *Proceedings of the 17th international conference on high-energy physics, London* (1974)
- F. Calogero, J. M. Charap and E. J. Squires, in *Proceedings of the Sienna conference* (CERN, 1963)

- F. Calogero, J. M. Charap and E. J. Squires, *Ann. Phys.* **25**, 325 (1963)
- A. Capella, *Phys. Rev.* **D6**, 2047 (1973)
- A. Capella, J. Tran Thanh Van and A. P. Contogouris, *Nucl. Phys.* **B12**, 167 (1969)
- J. L. Cardy, *Nucl. Phys.* **B28**, 455, 477 (1971)
- J. L. Cardy, *Nucl. Phys.* **B75**, 413 (1974a)
- J. L. Cardy, *Nucl. Phys.* **B79**, 319 (1974b)
- J. L. Cardy and A. R. White, *Phys. Letters*, **47B**, 445 (1973)
- J. L. Cardy and A. R. White, *Nucl. Phys.* **B80**, 12 (1974)
- R. Carlitz and M. Kisslinger, *Phys. Rev. Letters*, **24**, 186 (1970)
- P. Carruthers, *Introduction to unitary symmetry* (Wiley, 1966)
- L. Castillejo, R. H. Dalitz and F. J. Dyson, *Phys. Rev.* **101**, 453 (1956)
- A. Chados, R. L. Jaffe, K. Johnson, C. B. Thorn and V. Weisskopf, *Phys. Rev.* **D9**, 3471 (1974)
- H.-M. Chan, *Phys. Letters*, **28B**, 425 (1968)
- H.-M. Chan, P. Hoyer, H. I. Miettinen and D. P. Roy, *Phys. Letters*, **40B**, 406 (1972c)
- H.-M. Chan, K. Kajantie and G. Ranft, *Nuovo Cimento*, **49A**, 157 (1967)
- H.-M. Chan, J. Loskiewicz and W. W. M. Allison, *Nuovo Cimento*, **57A**, 93 (1968)
- H.-M. Chan, H. I. Miettinen and W. S. Lam, *Phys. Letters*, **40B**, 112 (1972b)
- H.-M. Chan and J. Paton, *Nucl. Phys.* **B10**, 519 (1969)
- H.-M. Chan, J. E. Paton and S. T. Tsou, *Nucl. Phys.* **B68**, 479 (1975)
- H.-M. Chan, R. O. Raitio, G. H. Thomas and N. A. Tournqvist, *Nucl. Phys.* **B19**, 173 (1970)
- H.-M. Chan and S. T. Tsou, *Phys. Letters*, **28B**, 485 (1969)
- S. J. Chang and T. M. Yan, *Phys. Rev. Letters*, **25**, 1586 (1970)
- J. M. Charap and E. J. Squires, *Phys. Rev.* **127**, 1387 (1962)
- H. Cheng and D. Sharp, *Phys. Rev.* **132**, 1854 (1963); *Ann. Phys.* **22**, 481 (1963)
- H. Cheng and T. T. Wu, *Phys. Rev.* **186**, 1611 (1969)
- H. Cheng and T. T. Wu, *Phys. Rev. Letters*, **24**, 1456 (1970)
- G. F. Chew, *S-matrix theory of strong interactions* (Benjamin, 1962)
- G. F. Chew, in B. de Witt and M. Jacob (eds.), *High energy physics, les Houches Lectures* (Gordon and Breach, 1965)
- G. F. Chew, *Phys. Rev. Letters*, **16**, 60 (1966)
- G. F. Chew, *Proceedings of the 5th international conference on high-energy collisions, Stony Brook* (1973)
- G. F. Chew and S. C. Frautschi, *Phys. Rev. Letters*, **7**, 394 (1961)
- G. F. Chew and S. C. Frautschi, *Phys. Rev. Letters*, **8**, 41 (1962)
- G. F. Chew, M. L. Goldberger, F. Low and Y. Nambu, *Phys. Rev.* **106**, 1337 (1957)
- G. F. Chew, F. E. Low and M. L. Goldberger, *Phys. Rev. Letters*, **22**, 208 (1969)
- G. F. Chew and S. Mandelstam, *Phys. Rev.* **119**, 476 (1960)
- G. F. Chew and A. Pignotti, *Phys. Rev.* **176**, 2112 (1968)
- G. F. Chew, T. Rogers and D. R. Snider, *Phys. Rev.* **D2**, 765 (1970)
- G. F. Chew and D. R. Snider, *Phys. Rev.* **D3**, 420 (1971)
- C. B. Chiu and J. Finkelstein, *Phys. Letters*, **27B**, 510 (1968)
- C. B. Chiu and A. Kotanski, *Nucl. Phys.* **B7**, 615; **B8**, 553 (1968)
- F. E. Close and J. F. Gunion, *Phys. Rev.* **D4**, 742 (1971)
- G. Cohen-Tannoudji, A. Morel and H. Navelet, *Ann. Phys.* **46**, 239 (1968)
- G. Cohen-Tannoudji, Ph. Salin and A. Morel, *Nuovo Cimento*, **55A**, 412 (1968)
- G. Cohen-Tannoudji, F. Henyey, G. L. Kane and W. J. Zakrzewski, *Phys. Rev. Letters*, **26**, 112 (1971)

- S. Coleman and R. E. Norton, *Nuovo Cimento*, **38**, 438 (1965)
- P. D. B. Collins, *Phys. Rev.* **142**, 1163 (1966)
- P. D. B. Collins, *Physics Reports*, **1C**, 105 (1971)
- P. D. B. Collins and A. Fitton, *Nucl. Phys.* **B91**, 332 (1975)
- P. D. B. Collins and F. D. Gault, *Nuovo Cimento*, **10A**, 189 (1972)
- P. D. B. Collins and F. D. Gault, *A bibliography of Regge phenomenology*, University of Durham report (1975)
- P. D. B. Collins, F. D. Gault and A. Martin, *Nucl. Phys.* **B80**, 136; **B83**, 241 (1974)
- P. D. B. Collins and R. C. Johnson, *Phys. Rev.* **169**, 1222 (1968)
- P. D. B. Collins and R. C. Johnson, *Phys. Rev.* **182**, 1755 (1969)
- P. D. B. Collins, R. C. Johnson and E. J. Squires, *Phys. Letters*, **26B**, 223 (1968*a*)
- P. D. B. Collins, R. C. Johnson and E. J. Squires, *Phys. Letters*, **27B**, 23 (1968*b*)
- P. D. B. Collins and K. L. Mir, *Nucl. Phys.* **B19**, 509 (1970)
- P. D. B. Collins, G. C. Ross and E. J. Squires, *Nucl. Phys.* **B10**, 475 (1969)
- P. D. B. Collins and E. J. Squires, *Regge poles in particle physics* (Springer, 1968)
- P. D. B. Collins and R. A. Swetman, *Lettere al Nuovo Cimento*, **5**, 793 (1972)
- W. N. Cottingham, *Ann. Phys.* **25**, 424 (1963)
- R. E. Cutkosky, *J. Math. Phys.* **1**, 429 (1960)
- R. E. Cutkosky, *Rev. Mod. Phys.* **33**, 446 (1961)
- R. E. Cutkosky and B. B. Deo, *Phys. Rev. Letters*, **19**, 1256 (1967)
- R. H. Dalitz, *Phil. Mag.* **44**, 1068 (1953)
- R. H. Dalitz, in B. de Witt and M. Jacob (eds.), *High energy physics, les Houches Lectures* (Gordon and Breach 1965)
- M. Damashek and F. J. Gilman, *Phys. Rev.* **D1**, 1319 (1970)
- A. Dar, V. F. Weisskopf, C. A. Levinson and H. J. Lipkin, *Phys. Rev. Letters*, **20**, 1261 (1968)
- R. F. Dashen and M. Gell-Mann, *Phys. Rev. Letters*, **17**, 340 (1966)
- R. Dolen, D. Horn and C. Schmid, *Phys. Rev.* **166**, 1768 (1968)
- G. Domokos and G. L. Tindle, *Phys. Rev.* **165**, 1906 (1968)
- A. Donnachie and R. G. Kirsopp, *Nucl. Phys.* **B10**, 433 (1969)
- H. Dosch, *Phys. Rev.* **173**, 1595 (1968)
- W. Drechsler, *Nuovo Cimento*, **53A**, 115 (1968)
- S. D. Drell and A. C. Hearn, *Phys. Rev. Letters*, **16**, 908 (1966)
- S. D. Drell and J. D. Walecka, *Ann. Phys.* **28**, 18 (1964)
- I. T. Drummond, in *Proceedings of the 16th international conference on high-energy physics, Batavia* (Batavia Laboratory, 1972)
- I. T. Drummond, P. V. Landshoff and W. J. Zakrzewski, *Nucl. Phys.* **B11**, 383 (1969*a*)
- I. T. Drummond, P. V. Landshoff and W. J. Zakrzewski, *Phys. Letters*, **28B**, 676 (1969*b*)
- L. Durand, *Phys. Rev. Letters*, **18**, 58 (1967)
- L. Durand and Y. T. Chiu, *Phys. Rev.* **139**, B646 (1965)
- R. J. Eden, *High energy collisions of elementary particles* (Cambridge U.P., 1967)
- R. J. Eden, *Rev. Mod. Phys.* **43**, 15 (1971)
- R. J. Eden, P. V. Landshoff, D. I. Olive and J. C. Polkinghorne, *The analytic S-matrix* (Cambridge U.P., 1966)

- A. R. Edmonds, *Angular momentum in quantum mechanics* (Princeton U.P., 1960)
- M. B. Einhorn, J. Ellis and J. Finkelstein, *Phys. Rev.* **D5**, 2063 (1972a)
- M. B. Einhorn, M. Green and M. A. Virasoro, *Phys. Rev.* **D6**, 1675 (1972b)
- A. Erdelyi, W. Magnus, F. Oberhettinger and F. G. Tricomi (eds.), *Higher transcendental functions*, 3 vols. (McGraw-Hill, 1953)
- T. Ferbel, *Phys. Rev. Letters*, **29**, 448 (1972)
- M. Ferro-Luzzi *et al.*, *Phys. Letters*, **34B**, 534 (1971)
- R. P. Feynman, *Phys. Rev. Letters*, **23**, 1415 (1969)
- R. P. Feynman, *Photon-hadron interactions* (Benjamin, 1972)
- K. Fialkowski and H. I. Miettinen, *Phys. Letters*, **43B**, 61 (1973)
- R. D. Field and G. C. Fox, *Nucl. Phys.* **B80**, 367 (1974)
- J. Finkelstein and K. Kajantie, *Nuovo Cimento*, **56A**, 659 (1968a)
- J. Finkelstein and K. Kajantie, *Phys. Letters*, **26B**, 305 (1968b)
- G. C. Fox, in C. Quigg (ed.), *Proceedings of Stony Brook conference on high energy collisions* (American Institute of Physics, 1973)
- W. M. Frank, D. J. Land and R. M. Spector, *Rev. Mod. Phys.* **43**, 36 (1971)
- S. C. Frautschi, P. Kaus and F. Zachariasen, *Phys. Rev.* **133**, B1607 (1964)
- W. R. Frazer *et al.*, *Rev. Mod. Phys.* **44**, 284 (1972)
- D. Z. Freeman and J. M. Wang, *Phys. Rev.* **153**, 1596 (1967)
- P. G. O. Freund, *Phys. Rev. Letters*, **20**, 235 (1968a)
- P. G. O. Freund, *Phys. Rev. Letters*, **21**, 1375 (1968b)
- M. Froissart, *La Jolla conference on weak and strong interactions*, unpublished (1961a)
- M. Froissart, *Phys. Rev.* **123**, 1053 (1961b)
- S. Fubini, in R. G. Moorhouse (ed.), *Strong interactions and high energy physics* (Oliver and Boyd, 1963)
- S. Fubini, *Nuovo Cimento*, **43**, 475 (1966)
- S. Fubini, D. Gordon and G. Veneziano, *Phys. Letters*, **29B**, 679 (1969)
- S. Fubini and G. Veneziano, *Nuovo Cimento*, **64A**, 811 (1969)
- S. Fubini and G. Veneziano, *Nuovo Cimento*, **67A**, 29 (1970)
- S. Fubini and G. Veneziano, *Ann. Phys.* **63**, 12 (1971)
- M. K. Gaillard, B. W. Lee and J. L. Rosner, *Rev. Mod. Phys.* **47**, 277 (1975)
- S. Gasiorowicz, *Elementary particle physics* (Wiley, 1966)
- M. Gell-Mann, in *CERN conference on high-energy physics* (CERN, 1962)
- M. Gell-Mann, *Phys. Letters*, **8**, 214 (1964)
- M. Gell-Mann and M. L. Goldberger, *Phys. Rev. Letters*, **9**, 275 (1962)
- M. Gell-Mann, F. E. Low, E. Marx, V. Singh and F. Zachariasen, *Phys. Rev.* **133**, B145, B161 (1964)
- F. J. Gilman, *Physics Reports*, **4C**, 95 (1972)
- R. J. Glauber, in W. E. Britten and L. G. Dunham (eds.), *Lectures in theoretical physics* (Interscience, 1959)
- P. Goddard, J. Goldstone, C. Rebbi and C. B. Thorn, *Nucl. Phys.* **B56**, 109 (1973)
- P. Goddard and A. R. White, *Nuovo Cimento*, **1A**, 645 (1971)
- P. Goddard and A. R. White, *Phys. Letters*, **38B**, 93 (1972)
- M. L. Goldberger, *Multiperipheral dynamics*, Princeton University report (1969)
- M. L. Goldberger and K. M. Watson, *Collision theory* (Wiley, 1964)
- G. R. Goldstein and J. F. Owens, *Nucl. Phys.* **B103**, 145 (1976)

- M. L. Good and W. D. Walker, *Phys. Rev.* **120**, 1857 (1960)
 K. Gottfried and J. D. Jackson, *Nuovo Cimento*, **33**, 309 (1964)
 M. Gourdin, *Unitary symmetries* (North-Holland, 1967)
 V. N. Gribov, *JETP* **41**, 667 (1961) (Tr. *Sov. Phys. JETP* **14**, 478 (1962))
 V. N. Gribov, *Sov. Jour. Nucl. Phys.* **5**, 138 (1967)
 V. N. Gribov, *Sov. Phys. JETP*, **26**, 414 (1968)
 V. N. Gribov and A. A. Migdal, *Sov. Jour. Nucl. Phys.* **8**, 583 (1968)
 V. N. Gribov and A. A. Migdal, *Sov. Jour. Nucl. Phys.* **6**, 703 (1969)
 V. N. Gribov and I. Ya. Pomeranchuk, in *CERN conference on high-energy physics* (CERN, 1962)
 V. N. Gribov and I. Ya. Pomeranchuk, *Phys. Rev. Letters*, **9**, 238 (1962)
 V. N. Gribov, I. Ya. Pomeranchuk and K. A. Ter-Martirosyan, *Phys. Rev.* **139**, B184 (1965)
 M. T. Grisaru, H. J. Schnitzer and H. S. Tsao, *Phys. Rev.* **D8**, 4498 (1973)
 D. Gross, *Phys. Rev. Letters*, **19**, 1303 (1967)
 D. Gross, *Nucl. Phys.* **B13**, 467 (1969)
- R. Hagedorn, *Suppl. Nuovo Cimento*, **3**, 147 (1965); **6**, 169 (1968); **6**, 311 (1968).
 I. G. Halliday, *Nuovo Cimento*, **60**, 177 (1969)
 I. G. Halliday and C. T. Sachrajda, *Phys. Rev.* **8**, 3598 (1973)
 I. G. Halliday and L. M. Saunders, *Nuovo Cimento*, **60A**, 115 (1969)
 F. Halzen, A. Kumar, A. D. Martin and C. Michael, *Phys. Letters*, **32B**, 111 (1970)
 F. Halzen and C. Michael, *Phys. Letters*, **36B**, 367 (1971)
 D. Hankins, P. Kaus and C. J. Pearson, *Phys. Rev.* **137**, B1034 (1965)
 Y. Hara, *Phys. Rev.* **136**, 507 (1964)
 H. Harari, *Phys. Rev. Letters*, **17**, 1303 (1966)
 H. Harari, *Phys. Rev. Letters*, **20**, 1395 (1968)
 H. Harari, *Phys. Rev. Letters*, **22**, 562 (1969)
 H. Harari, *Phys. Rev. Letters*, **24**, 286 (1970)
 H. Harari, *Ann. Phys.* **63**, 432 (1971)
 H. Harari, in R. L. Crawford and R. Jennings (eds.), *Phenomenology of particles at high energies* (Academic Press, 1974)
 H. Harari and E. Rabinovici, *Phys. Letters*, **43B**, 49 (1973)
 H. Harari and Y. Zarmi, *Phys. Rev.* **187**, 2230 (1969)
 D. R. Harrington, *Phys. Rev.* **D1**, 260 (1970)
 B. J. Hartley and G. L. Kane, *Nucl. Phys.* **B57**, 157 (1973)
 F. Henyey, G. L. Kane, J. Pumplin and M. H. Ross, *Phys. Rev.* **182**, 1579 (1969)
 A. Herglotz, *Ber. Verk. Sächs Akad. Wiss. Leipzig. Math. Naturw. Kl.* **63** (1911)
 D. Hill *et al.*, *Phys. Rev. Letters*, **30**, 239 (1973)
 J. F. L. Hopkinson and E. Plahte, *Phys. Letters*, **28B**, 489 (1968)
 D. Horn, *Physics Reports* **4C**, 1 (1972)
 P. Hoyer, R. G. Roberts, and D. P. Roy, *Nucl. Phys.* **B56**, 173 (1973).
 P. Hoyer, in J. R. Smith (ed.), *Proceedings of 17th international conference on high-energy physics, London* (Rutherford Laboratory, 1974)
 R. Hwa, *Phys. Rev.* **162**, 1706 (1967)
 R. Hwa, *Phys. Rev.* **D1**, 1790 (1970)
 R. Hwa and C. B. Chiu, *Phys. Rev.* **D4**, 224 (1971)
 R. Hwa, and W. S. Lam, *Phys. Rev.* **D5**, 766 (1972)
- K. Igi and S. Matsuda, *Phys. Rev. Letters*, **19**, 928 (1967)
 J. Iliopoulos, in J. R. Smith (ed.), *Proceedings of the 17th international conference on high-energy physics, London* (1974)

- T. Inami, *Nucl. Phys.* **B77**, 337 (1974)
- E. Inonu and E. P. Wigner, *Nuovo Cimento*, **9**, 707 (1952)
- A. C. Irving, A. D. Martin and V. Barger, *Nuovo Cimento*, **16A**, 573 (1973)
- A. C. Irving, A. D. Martin and C. Michael, *Nucl. Phys.* **B32**, 1 (1971)
- J. D. Jackson, in C. de Witt and M. Jacob (eds.), *High-energy physics, les Houches Lectures* (Gordon and Breach, 1965)
- J. D. Jackson and G. E. Hite, *Phys. Rev.* **169**, 1248 (1968)
- M. Jacob in *Proceedings of the 16th international conference on high-energy physics, Batavia* (Batavia Laboratory, 1972)
- M. Jacob, E. Berger and R. L. Slansky, *Phys. Rev.* **D6**, 2580 (1972)
- M. Jacob and R. L. Slansky, *Phys. Rev.* **D5**, 1847 (1972)
- M. Jacob and G. C. Wick, *Ann. Phys.* **7**, 404 (1959)
- C. J. Jochain and C. Quigg, *Rev. Mod. Phys.* **46**, 279 (1974)
- C. E. Jones and J. B. Hartle, *Phys. Rev.* **140**, B90 (1965)
- C. E. Jones, F. E. Low and J. E. Young, *Phys. Rev.* **D4**, 2358 (1971)
- C. E. Jones and V. L. Teplitz, *Phys. Rev.* **159**, 1271 (1967)
- H. F. Jones and M. Scadron, *Nucl. Phys.* **B4**, 267 (1967)
- H. Joos, in Britten and Barut (eds.), *Lectures in theoretical physics*, vol. 8A (University of Colorado, 1964)
- G. L. Kane, F. Henyey, D. R. Richards, M. Ross and G. Williamson, *Phys. Rev. Letters*, **25**, 1519 (1970)
- A. Kernan and H. K. Sheppard, *Phys. Rev. Letters*, **23**, 1314 (1969)
- T. W. B. Kibble, *Phys. Rev.* **131**, 2282 (1963)
- Z. Koba and H. B. Nielsen, *Nucl. Phys.* **B10**, 633 (1969)
- J. J. J. Kokkedee, *The quark model* (Benjamin, 1969)
- H. A. Kramers, *Atti. Congr. Intern. Fisici Como*, **2**, 545 (1927)
- R. Kronig, *J. Opt. Soc. Amer.* **12**, 547 (1926)
- P. K. Kuo and P. Suranyi, *Phys. Rev.* **D1**, 3416, 3424 (1970)
- K. W. Lai and J. Louie, *Nucl. Phys.* **B19**, 205 (1970)
- L. D. Landau, *Nucl. Phys.* **13**, 181 (1959)
- P. V. Landshoff and J. C. Polkinghorne, *Phys. Rev.* **181**, 1989 (1969)
- P. V. Landshoff and J. C. Polkinghorne, *Nucl. Phys.* **B19**, 432 (1970)
- P. V. Landshoff and J. C. Polkinghorne, *Physics Reports*, **5C** (1972)
- P. V. Landshoff and J. C. Polkinghorne, *Phys. Rev.* **D5**, 2056 (1972)
- P. V. Landshoff and W. J. Zakrzewski, *Nucl. Phys.* **B12**, 216 (1969)
- E. Leader, *Phys. Rev.* **166**, 1599 (1968)
- M. Le Bellac, *Phys. Letters*, **25B**, 524 (1967)
- M. Le Bellac, *Nuovo Cimento*, **55A**, 318 (1968)
- M. Le Bellac and J. L. Meunier, *Phys. Letters*, **43B**, 127 (1973)
- H. Lee, *Phys. Rev. Letters*, **30**, 719 (1973)
- J. Lee-Franzini, *Proceedings of 5th international conference on high-energy collisions, Stony Brook* (1973)
- H. Lehmann, *Nuovo Cimento*, **10**, 579 (1958)
- D. W. G. S. Leith, in J. Tran Thanh Van (ed.), *The Pomeron* (CNRS, 1973)
- N. Levinson, *Kgl. Dansk Vidensk. Selsk., Mat.-Fys. Medd.* **25**, no. 9 (1949)
- M. Levy and J. Sucher, *Phys. Rev.* **186**, 1653 (1969)
- J. M. Levy-Leblond, *Nuovo Cimento*, **45**, 772 (1966)
- Y. C. Liu and S. Okubo, *Phys. Rev. Letters*, **19**, 190 (1967)
- C. H. Llewellyn-Smith, *Physics Reports*, **3C**, 261 (1972)

- F. K. Loebinger, in J. R. Smith (ed.), *Proceedings of 17th international conference on high-energy physics, London* (1974)
- C. Lovelace, *Phys. Letters*, **28B**, 264 (1968)
- C. Lovelace and D. Masson, *Nuovo Cimento*, **26**, 472 (1962)
- S. MacDowell, *Phys. Rev.* **116**, 774 (1959)
- W. Magnus and F. Oberhettinger, *Functions of mathematical physics* (Chelsea, 1949)
- S. Mandelstam, *Phys. Rev.* **112**, 1344 (1958)
- S. Mandelstam, *Phys. Rev.* **115**, 1741, 1752 (1959)
- S. Mandelstam, *Ann. Phys.* **19**, 254 (1962)
- S. Mandelstam, *Nuovo Cimento*, **30**, 1127, 1148 (1963)
- S. Mandelstam, *Phys. Rev.* **137**, B949 (1965)
- S. Mandelstam, *Nucl. Phys.* **B64**, 205 (1973)
- S. Mandelstam, *Physics Reports*, **13C**, 259 (1974)
- J. Mandula, C. Rebbi, R. Slansky, J. Weyers and G. Zweig, *Phys. Rev. Letters*, **22**, 1147 (1969)
- J. Mandula, J. Weyers and G. Zweig, *Phys. Rev. Letters*, **23**, 266 (1970)
- A. Martin, in G. Moorhouse (ed.), *Strong interactions and high energy physics* (Oliver and Boyd, 1963)
- A. Martin, *Nuovo Cimento*, **42**, 930; **44**, 1219 (1966)
- A. Martin and P. R. Stevens, *Phys. Rev.* **D5**, 147 (1972)
- A. D. Martin and T. D. Spearman, *Elementary particle theory* (North-Holland, 1970)
- C. Michael, *Nucl. Phys.* **B13**, 644 (1969a)
- C. Michael, *Phys. Letters*, **29B**, 230 (1969b)
- H. I. Miettinen, *Phys. Letters*, **38B**, 431 (1972)
- H. I. Miettinen, Helsinki Thesis (1973)
- A. A. Migdal, A. M. Polyakov and K. A. Ter-Martirosyan, *Phys. Letters*, **48B**, 239 (1974)
- D. R. O. Morrison, *Phys. Letters*, **25B**, 238 (1967)
- D. R. O. Morrison, in J. R. Smith (ed.), *Proceedings of 4th international conference on high-energy collisions* (Rutherford Laboratory, 1972)
- P. M. Morse and H. Feshbach, *Methods of theoretical physics* (McGraw-Hill, 1953)
- A. H. Mueller, *Phys. Rev.* **D2**, 2963 (1970)
- A. H. Mueller, *Phys. Rev.* **D4**, 150 (1971)
- I. J. Muzinich, F. E. Paige, T. L. Trueman and L.-L. Wang, *Phys. Rev.* **D6**, 1048 (1972)
- A. Neveu and J. H. Schwarz, *Phys. Rev.* **D4**, 1109 (1971)
- R. G. Newton, *The complex J-plane* (Benjamin, 1964)
- R. G. Newton, *Scattering theory of waves and particles* (McGraw-Hill, 1966)
- R. Odorico, *Phys. Letters*, **34B**, 65 (1971)
- R. Odorico, *Nucl. Phys.* **B37**, 509 (1972)
- P. J. O'Donovan, *Phys. Rev.* **185**, 1902 (1969)
- R. Oehme and G. Tiktopoulos, *Phys. Letters*, **2**, 86 (1962)
- R. Oehme, *Nucl. Phys.* **B16**, 161 (1970)
- D. I. Olive and J. C. Polkinghorne, *Phys. Rev.* **171**, 1475 (1968)
- D. Olive, in J. R. Smith (ed.), *Proceedings of the 17th international conference on high-energy physics, London* (1974)

- Particle Data Group, *Physics Letters*, **50B**, 1 (1974)
 Particle Data Group, *Rev. Mod. Phys.* **47**, 535 (1975)
 B. Peterson and N. A. Tornqvist, *Nucl. Phys.* **B13**, 629 (1969)
 R. J. N. Phillips, *Phys. Letters*, **24B**, 342 (1967)
 R. J. N. Phillips, G. A. Ringland and R. P. Worden, *Phys. Letters*, **40B**, 239 (1972)
 H. Pilkuhn, *The interactions of hadrons* (Wiley, 1967)
 E. Plahte and R. G. Roberts, *Nuovo Cimento*, **60A**, 33 (1969)
 J. H. Poincaré, *Acta. Math.* **4**, 213 (1884)
 J. C. Polkinghorne, *J. Math. Phys.* **5**, 431 (1964)
 J. C. Polkinghorne, *Nuovo Cimento*, **7A**, 555 (1972)
 I. Ya. Pomeranchuk, *Sov. Phys. JETP* **7**, 499 (1958)
- C. Quigg, *Nucl. Phys.* **B34**, 77 (1971)
- T. Regge, *Nuovo Cimento*, **14**, 951 (1959)
 T. Regge, *Nuovo Cimento*, **18**, 947 (1960)
 B. Renner, *Current algebras and their applications* (Pergamon, 1968)
 M. Rimpault and Ph. Salin, *Nucl. Phys.* **B22**, 235 (1970)
 G. A. Ringland and R. J. N. Phillips, *Nucl. Phys.* **B13**, 274 (1969)
 R. G. Roberts and D. P. Roy, *Phys. Letters*, **40B**, 555 (1972)
 M. E. Rose, *Elementary theory of angular momentum* (Wiley, 1957)
 J. L. Rosner, *Phys. Rev. Letters*, **21**, 950 (1968)
 J. L. Rosner, *Phys. Rev. Letters*, **22**, 689 (1969)
 H. J. Rothe, *Phys. Rev.* **159**, 1471 (1967)
 D. P. Roy and R. G. Roberts, *Nucl. Phys.* **B77**, 240 (1974)
 H. R. Rubinstein, G. Veneziano and M. A. Virasoro, *Phys. Rev.* **167**, 1441 (1968)
 A. de Rujula, H. Georgi, S. L. Glashow and H. R. Quinn, *Rev. Mod. Phys.* **46**, 391 (1974)
- A. I. Sanda, *Phys. Rev.* **D6**, 280 (1972)
 R. Savit and J. Bartels, *Phys. Rev.* **D11**, 2300 (1975)
 M. D. Scadron and H. F. Jones, *Phys. Rev.* **173**, 1734 (1968)
 L. I. Schiff, *Quantum mechanics* (McGraw-Hill, 1968)
 C. Schmid, *Phys. Rev. Letters*, **20**, 689 (1968)
 J. H. Schwarz, *Phys. Rev.* **162**, 1671 (1967)
 J. H. Schwarz, *Physics Reports*, **8C**, 269 (1973)
 J. Scherk, *Rev. Mod. Phys.* **47**, 123 (1975)
 H. Sciarrino and M. Toller, *J. Math. Phys.* **8**, 1252 (1967)
 V. Singh, *Phys. Rev.* **127**, 632 (1962)
 V. Singh, *Phys. Rev. Letters*, **18**, 36 (1967)
 D. Sivers and J. Yellin, *Rev. Mod. Phys.* **43**, 125 (1971)
 A. Sommerfeld, *Partial differential equations in physics*, p. 282 (Academic Press, 1949)
 E. J. Squires, *Complex angular momentum and particle physics* (Benjamin, 1963)
 E. J. Squires, *Nuovo Cimento*, **34**, 1751 (1964)
 J. K. Storrow, *Nucl. Phys.* **B47**, 174 (1972)
 J. K. Storrow, *Nucl. Phys.* **B96**, 77 (1975)
 J. J. de Swart, *Nuovo Cimento*, **31**, 420 (1964)
 A. R. Swift, *Nucl. Phys.* **B84**, 397 (1975)
 A. R. Swift and R. W. Tucker, *Phys. Rev.* **D1**, 2894; **D2**, 2486 (1970)

- A. R. Swift and R. W. Tucker, *Phys. Rev.* **D4**, 1707 (1971)
- C. E. de Tar, *Phys. Rev.* **D3**, 128 (1971)
- C. E. de Tar, D. Z. Freedman and G. Veneziano, *Phys. Rev.* **D4**, 906 (1971)
- C. E. de Tar and J. H. Weis, *Phys. Rev.* **D4**, 3141 (1971)
- J. C. Taylor, *Nucl. Phys.* **B3**, 504 (1967)
- K. A. Ter-Martirosyan, *Nucl. Phys.* **68**, 591 (1965)
- G. Tiktopoulos and S. B. Trieman, *Phys. Rev.* **D2**, 805 (1970)
- G. Tiktopoulos and S. B. Trieman, *Phys. Rev.* **D3**, 1037 (1971)
- E. C. Titchmarsh, *The theory of Fourier integrals* (Oxford U.P., 1937)
- E. C. Titchmarsh, *The theory of functions*, 2nd edn. (Oxford U.P., 1939)
- M. Toller, *Nuovo Cimento*, **37**, 631 (1965)
- M. Toller, *Nuovo Cimento*, **53A**, 671 (1967)
- M. Toller, *Nuovo Cimento*, **54A**, 295 (1968)
- M. Toller, *Riv. Nuovo Cimento*, **1**, 403 (1969)
- T. L. Trueman, *Phys. Rev.* **173**, 1684 (1968) (Erratum *ibid.* **181**, 2154 (1969))
- T. L. Trueman and G. C. Wick, *Ann. Phys. (N.Y.)* **26**, 322 (1964)
- S. H. Tye and G. Veneziano, *Nuovo Cimento*, **14A**, 711 (1973)
- G. Veneziano, *Nuovo Cimento*, **57A**, 190 (1968)
- G. Veneziano, *Phys. Letters*, **38B**, 30 (1972)
- G. Veneziano, *Phys. Letters*, **43B**, 413 (1973)
- G. Veneziano, *Physics Reports*, **9C**, 201 (1974a)
- G. Veneziano, *Nucl. Phys.* **B74**, 355 (1974b)
- M. A. Virasoro, *Phys. Rev. Letters*, **22**, 37 (1969)
- J. M. Wang and L. L. C. Wang, *Phys. Rev.* **D1**, 663 (1970)
- L. L. C. Wang, *Phys. Rev.* **142**, 1187 (1966)
- A. E. A. Warburton, *Phys. Rev.* **137**, B993 (1964)
- G. N. Watson, *Proc. Roy. Soc.* **95**, 83 (1918)
- B. R. Webber, *Phys. Rev.* **D3** (1971)
- H. A. Weidenmuller, *Phys. Letters*, **24B**, 441 (1967)
- S. Weinberg, *Phys. Rev. Letters*, **17**, 616 (1966)
- S. Weinberg, *Rev. Mod. Phys.* **46**, 255 (1974)
- J. H. Weis, *Phys. Letters*, **43B**, 487 (1973)
- J. H. Weis, *Nucl. Phys.* **B71**, 342 (1974)
- A. R. White, *Nucl. Phys.* **B39**, 432, 461 (1971)
- A. R. White, *Nucl. Phys.* **B50**, 93, 130 (1972)
- A. R. White, *Nucl. Phys.* **B50**, 130 (1973a)
- A. R. White, *Nucl. Phys.* **B67**, 189 (1973b)
- A. R. White, *Phys. Rev.* **D10**, 1236 (1974)
- J. N. J. White, *Lett. al Nuovo Cimento*, **1**, 20 (1971)
- E. P. Wigner, *Ann. Math.* **40**, 159 (1939)
- E. P. Wigner, *Group theory* (Academic Press, 1959)
- P. W. Williams, *Phys. Rev.* **D1**, 1312 (1970)
- R. Worden, *Nucl. Phys.* **B58**, 205 (1973)
- F. Zachariasen, *Phys. Rev. Letters*, **7**, 112; 268(E) (1961)
- F. Zachariasen, *Schladming Lectures*, CERN report Th. 1290 (1971)
- K. Zalewski, in J. R. Smith (ed.), *Proceedings of 17th international conference on high-energy physics, London* (1974)
- G. Zweig, CERN reports Th. 401, 412 (1964) unpublished

