

References

- [1] S. Abatzis *et al.*, WA85 collaboration, 1990. Λ and $\bar{\Lambda}$ production in sulphur–tungsten interactions at 200 GeV/c per nucleon. *Phys. Lett. B*, **244**, 130.
- [2] S. Abatzis *et al.*, WA85 collaboration, 1991. Production of multistrange baryons and anti-baryons in sulphur–tungsten interactions at 200 GeV/c per nucleon. *Phys. Lett. B*, **259**, 508.
- [3] S. Abatzis *et al.*, WA85 collaboration, 1991. Ξ^- , $\bar{\Xi}^-$, Λ and $\bar{\Lambda}$ production in sulphur–tungsten interactions at 200 GeV/c per nucleon. *Phys. Lett. B*, **270**, 123.
- [4] S. Abatzis *et al.*, WA85 collaboration, 1993. Observation of omega and anti-omega in sulphur–tungsten interactions at 200 GeV/c per nucleon. *Phys. Lett. B*, **316**, 615.
- [5] S. Abatzis *et al.*, WA85 collaboration, 1995. Measurement of the Ω/Ξ production ratio in central S–W interactions at 200A GeV. *Phys. Lett. B*, **347**, 158.
- [6] S. Abatzis *et al.*, WA85 collaboration, 1996. Strangeness production in p + W and S + W interactions at 200A GeV. *APH N. S., Heavy Ion Physics*, **4**, 79.
- [7] S. Abatzis *et al.*, WA85 collaboration, 1996. Study of K_S^0 , Λ and $\bar{\Lambda}$ production in S–W collisions at 200 GeV/c per nucleon. *Phys. Lett. B*, **376**, 251.
- [8] S. Abatzis *et al.*, WA94 collaboration, 1995. A study of a cascade and strange baryon production in sulphur–sulphur interactions at 200 GeV/c per nucleon. *Phys. Lett. B*, **354**, 178.
- [9] F. Abe *et al.*, CDF collaboration, 1998. Observation of B_c mesons in p– \bar{p} collisions at $\sqrt{s} = 1.8$ TeV. *Phys. Rev. D*, **58**, 112004.
- [10] F. Abe *et al.*, CDF collaboration, 1998. Observation of the B_c meson in p– \bar{p} collisions at $\sqrt{s} = 1.8$ TeV. *Phys. Rev. Lett.*, **81**, 2432.

- [11] M. C. Abreu *et al.*, NA38 collaboration, 1998. Transverse momentum of J/Ψ , Ψ' and mass continuum muon pairs produced in $^{32}\text{S-U}$ collisions at 200 GeV/c per nucleon. *Phys. Lett. B*, **423**, 207.
- [12] M. C. Abreu *et al.*, NA50 collaboration, 2000. Evidence for deconfinement of quarks and gluons from the J/Ψ suppression pattern measured in Pb + Pb collisions at the CERN SPS. *Phys. Lett. B*, **477**, 28.
- [13] M. C. Abreu *et al.*, NA50 collaboration, 2001. Results on open charm from NA50. *J. Phys. G*, **27**, 677.
- [14] M. C. Abreu *et al.*, NA50 collaboration, 2001. Transverse momentum distributions of J/Ψ , Ψ' , Drell–Yan and continuum dimuons produced in Pb + Pb interactions at the SPS. *Phys. Lett. B*, **499**, 85.
- [15] K. H. Ackermann *et al.*, STAR collaboration, 2001. Elliptic flow in Au + Au collisions at $\sqrt{s_{\text{NN}}} = 130$ GeV. *Phys. Rev. Lett.*, **86**, 402.
- [16] K. Adcox *et al.*, PHENIX collaboration, 2001. Measurement of the mid-rapidity transverse energy distribution from $\sqrt{s_{\text{NN}}} = 130$ GeV Au + Au collisions at RHIC. *Phys. Rev. Lett.*, **87**, 52301.
- [17] K. Adcox *et al.*, PHENIX collaboration, 2002. Suppression of hadrons with large transverse momentum in central Au + Au collisions at $\sqrt{s_{\text{NN}}} = 130$ GeV. *Phys. Rev. Lett.*, **88**, 22301.
- [18] C. Adler *et al.*, STAR collaboration, 2001. Pion interferometry of $\sqrt{s_{\text{NN}}} = 130$ GeV Au + Au collisions at RHIC. *Phys. Rev. Lett.*, **87**, 82301.
- [19] C. Adler, STAR collaboration, 2001. Mid-rapidity anti-proton to proton ratio from Au + Au collisions at $\sqrt{s_{\text{NN}}} = 130$ GeV. *Phys. Rev. Lett.*, **86**, 4778.
- [20] A. T. M. Aerts and J. Rafelski, 1984. QCD, bags and hadron masses. *Phys. Lett. B*, **148**, 337.
- [21] S. V. Afanasev *et al.*, NA49 collaboration, 2000. Production of ϕ mesons in p + p, p + Pb and central Pb + Pb collisions at $E_{\text{beam}} = 158A$ GeV. *Phys. Lett. B*, **491**, 59.
- [22] G. Agakishiev *et al.*, CERES collaboration, 1998. Low mass e^+e^- pair production in 158A GeV Pb–Au collisions at the CERN SPS, its dependence on multiplicity and transverse momentum. *Phys. Lett. B*, **422**, 405.
- [23] J.-E. Alam, S. Raha, and B. Sinha, 1994. Successive equilibration in quark–gluon plasma. *Phys. Rev. Lett.*, **73**, 1895.
- [24] T. Alber *et al.*, NA35 collaboration, 1994. Strange particle production in nuclear collisions at 200 GeV per nucleon. *Z. Phys. C*, **64**, 195.
- [25] T. Alber *et al.*, NA35 collaboration, 1995. Two-pion Bose–Einstein correlations in nuclear collisions at 200 GeV per nucleon. *Z. Phys. C*, **66**, 77.
- [26] T. Alber *et al.*, NA35 collaboration, 1998. Charged particle production in proton, deuteron, oxygen and sulphur–nucleus collisions at 200 GeV per nucleon. *Eur. Phys. J. C*, **2**, 643.

- [27] T. Alber *et al.*, NA49 collaboration, 1995. Transverse energy production in $Pb^{208} + Pb$ collisions at 158 GeV per nucleon. *Phys. Rev. Lett.*, **75**, 3814.
- [28] R. Albrecht *et al.*, WA80 collaboration, 1989. Global and local fluctuations in multiplicity and transverse energy for central ultrarelativistic heavy ion interactions. *Z. Phys. C*, **45**, 31.
- [29] R. Albrecht *et al.*, WA80 collaboration, 1995. Production of η mesons in 200A GeV S + S and S + Au. *Phys. Lett. B*, **361**, 14.
- [30] M. Alford, K. Rajagopal, and F. Wilczek, 1998. Color superconductivity and signs of its formation. *Nucl. Phys. A*, **638**, 515c.
- [31] M. Alford, K. Rajagopal, and F. Wilczek, 1999. Color flavor locking and chiral symmetry breaking in high density QCD. *Nucl. Phys. B*, **537**, 443.
- [32] A. Ali Khan *et al.*, CP-PACS collaboration, 2001. Equations of state of finite-temperature QCD with two flavors of improved Wilson quarks. *Phys. Rev. D*, **64**, 74510.
- [33] A. Ali Khan *et al.*, CP-PACS collaboration, 2001. Light hadron spectroscopy with two flavors of dynamical quarks on the lattice. *Hep-lat* 0105015.
- [34] T. Altherr and D. Seibert, 1993. Thermal quark productions in pure glue and quark–gluon plasmas. *Phys. Lett. B*, **313**, 149.
- [35] J. Ambjorn and P. Olesen, 1980. A color magnetic vortex condensate in QCD. *Nucl. Phys. B*, **170**, 60.
- [36] J. O. Andersen, E. Braaten, and M. Strickland, 2000. Hard-thermal-loop resummation of the free energy of a quark–gluon plasma. *Phys. Rev. D*, **61**, 74016.
- [37] E. Andersen *et al.*, 1989. A measurement of cross-sections for S^{32} interactions with Al, Fe, Cu, Ag and Pb at 200 GeV/c per nucleon. *Phys. Lett. B*, **220**, 328.
- [38] E. Andersen *et al.*, WA97 collaboration, 1999. Strangeness enhancement at mid-rapidity in Pb–Pb collisions at 158A GeV. *Phys. Lett. B*, **449**, 401.
- [39] B. Andersson, G. Gustafson, G. Ingelman, and T. Sjostrand, 1983. Parton fragmentation and string dynamics. *Phys. Rep.*, **97**, 31.
- [40] B. Andersson, G. Gustafson, and H. Pi, 1993. The FRITIOF model for very high-energy hadronic collisions. *Z. Phys. C*, **57**, 485.
- [41] F. Antinori *et al.*, WA85 collaboration, 1999. Enhancement of strange and multi-strange baryons and anti-baryons in S–W interactions at 200 GeV/c. *Phys. Lett. B*, **447**, 178.
- [42] F. Antinori *et al.*, WA97 collaboration, 2000. Transverse mass spectra of strange and multi-strange particles in Pb–Pb collisions at 158A GeV. *Eur. Phys. J. C*, **14**, 633.

- [43] H. Appelshäuser *et al.*, NA49 collaboration, 1999. Baryon stopping and charged particle distributions in central Pb + Pb collisions at 158 GeV per nucleon. *Phys. Rev. Lett.*, **82**, 2471.
- [44] A. T. Armstrong *et al.*, E864 collaboration, 2001. Search for strange quark matter produced in relativistic heavy ion collisions. *Phys. Rev. C*, **63**, 54903.
- [45] R. Arsenescu *et al.*, NA52 collaboration, 2001. The NA52 strangelet search. *J. Phys. G*, **27**, 487.
- [46] J. Bächler *et al.*, NA35 collaboration, 1991. Study of the energy flow in sulphur and oxygen–nucleus collisions at 60 and 200 GeV/nucleon. *Z. Phys. C*, **52**, 239.
- [47] J. Bächler *et al.*, NA35 collaboration, 1992. Production of charged kaons in proton–nucleus and nucleus–nucleus collisions at 60 and 200 GeV/nucleon. *Nucl. Phys. A*, **544**, 609.
- [48] B. B. Back *et al.*, PHOBOS collaboration, 2001. Charged-particle pseudorapidity density distributions from Au + Au collisions at $\sqrt{s_{NN}} = 130$ GeV. *Phys. Rev. Lett.*, **87**, 102303.
- [49] B. B. Back, PHOBOS collaboration, 2000. Charged particle multiplicity near midrapidity in central Au + Au collisions at $\sqrt{s} = 56$ and 130A GeV. *Phys. Rev. Lett.*, **85**, 3100.
- [50] B. B. Back, PHOBOS collaboration, 2002. Energy dependence of particle multiplicity at central Au + Au collisions. *Phys. Rev. Lett.*, **88**, 22302.
- [51] R. Balian and C. Bloch, 1970. Distribution of eigenfrequencies for the wave equation in a finite domain. I. Three-dimensional problem with smooth boundary surface. *Ann. Phys.*, **60**, 401.
- [52] R. Balian and C. Bloch, 1971. Distribution of eigenfrequencies for the wave equation in a finite domain. II. Electromagnetic field. Riemannian spaces. *Ann. Phys.*, **64**, 271.
- [53] B. C. Barrois, 1977. Superconducting quark matter. *Nucl. Phys. C*, **129**, 390. Ph. D. Thesis, Caltech 1979.
- [54] J. Bartke *et al.*, NA35 collaboration, 1990. Neutral strange particle production in sulphur–sulphur and proton–sulphur collisions at 200 GeV/nucleon. *Z. Phys. C*, **48**, 191.
- [55] S. Bass *et al.*, 1999. Group report: Last call for RHIC predictions. *Nucl. Phys. A*, **661**, 205.
- [56] I. A. Batalin, S. G. Matinyan, and G. K. Savvidy, 1977. Vacuum polarization by a source-free gauge field. *Sov. J. Nucl. Phys.*, **26**, 214.
- [57] G. Baym and P. Braun-Munzinger, 1996. Physics of Coulomb corrections in Hanbury-Brown Twiss interferometry in ultrarelativistic heavy ion collisions. *Nucl. Phys. A*, **160**, 286c.

- [58] G. Baym, B. L. Friman, J.-P. Blaizot, M. Soyeur, and W. Czyż, 1983. Hydrodynamics of ultrarelativistic heavy ion collisions. *Nucl. Phys. A*, **407**, 541.
- [59] I. G. Bearden *et al.*, NA44 collaboration, 1997. Collective expansion in high-energy heavy ion collisions. *Phys. Rev. Lett.*, **78**, 2080.
- [60] F. Becattini. Universality of thermal hadron production in pp, p \bar{p} and e $^+$ e $^-$ collisions. In L. Cifarelli, A. Kaidalov, and V. A. Khoze., editors, *Universality Features in Multihadron Production and the Leading Effect*. World Scientific, Singapore, 1998.
- [61] F. Becattini, M. Gaździcki, and J. Sollfrank, 1998. On chemical equilibrium in nuclear collisions. *Eur. Phys. J. C*, **5**, 143.
- [62] F. Becattini and G. Pettini, 2001. Strangeness production in a statistical effective model of hadronization. In *Proceedings of QCD@Work: International Conference on QCD: Theory and Experiment, Martina Franca*, 2001. *Hep-ph/0108212*.
- [63] S. Z. Belenkij, 1956. Connection between scattering and multiple production of particles. *Nucl. Phys.*, **2**, 259.
- [64] E. Beth and G. E. Uhlenbeck, 1937. The quantum theory of non-ideal gas, II. Behavior at low temperatures. *Physica*, **4**, 915.
- [65] A. Bialas, 1999. Fluctuations of the string tension and transverse mass distribution. *Phys. Lett. B*, **466**, 301.
- [66] N. Bilić, J. Cleymans, I. Dadić, and D. Hislop, 1995. Gluon decay as a mechanism for strangeness production in a quark–gluon plasma. *Phys. Rev. C*, **52**, 401.
- [67] T. Biró and J. Zimányi, 1982. Quarkochemistry in relativistic heavy ion collisions. *Phys. Lett. B*, **113**, 6.
- [68] T. Biró and J. Zimányi, 1983. Quark–gluon plasma formation in heavy ion collisions and quarkochemistry. *Nucl. Phys. A*, **395**, 525.
- [69] T. S. Biró, 2000. Quark coalescence and hadronic equilibrium. *Hep-ph/0005067*.
- [70] T. S. Biró, P. Lévai, and B. Müller, 1990. Strangeness production with massive gluons. *Phys. Rev. D*, **42**, 3078.
- [71] T. S. Biró, E. van Doorn, B. Müller, M. H. Thoma, and X.-N. Wang, 1993. Parton equilibrium in relativistic heavy ion collisions. *Phys. Rev. D*, **48**, 1275.
- [72] J. D. Bjørken, 1982. Energy loss of energetic partons in quark–gluon plasma: Possible extinction of high P_{\perp} jets in hadron–hadron collisions. *Fermilab-Pub-82/59-THY*.
- [73] J. D. Bjørken, 1983. Highly relativistic nucleus–nucleus collisions: The central rapidity region. *Phys. Rev. D*, **27**, 140.

- [74] J. D. Björken and S. D. Drell. *Relativistic Quantum Mechanics*. McGraw-Hill Book Co., New York, 1964.
- [75] D. Boal, C. K. Gelbke, and B. Jennings, 1990. Intensity interferometry in subatomic physics. *Rev. Mod. Phys.*, **62**, 553.
- [76] A. Bode *et al.*, ALPHA collaboration, 2001. First results on the running coupling in QCD with two massless flavors. *Phys. Lett. B*, **515**, 49.
- [77] H. Boggild *et al.*, NA44 collaboration, 1996. Coulomb effect in single particle distributions. *Phys. Lett. B*, **372**, 339.
- [78] P. N. Bogolioubov, 1967. Sur un modèle à quarks quasi-indépendants. *Ann. Inst. Henri Poincaré*, **8**, 163.
- [79] C. Bormann, *et al.*, NA49 collaboration, 1997. Kaon, lambda and anti-lambda production in Pb + Pb collisions at 158 GeV per nucleon. *J. Phys. G*, **23**, 1817.
- [80] P. Braun-Munzinger, I. Heppe, and J. Stachel, 1999. Chemical equilibration in Pb+Pb collisions at the SPS. *Phys. Lett. B*, **465**, 15.
- [81] P. Braun-Munzinger, D. Magestro, K. Redlich, and J. Stachel, 2001. Hadron production in Au–Au collisions at RHIC. *Phys. Lett. B*, **518**, 41.
- [82] P. Braun-Munzinger and J. Stachel, 1996. Probing the phase boundary between hadronic matter and the quark–gluon plasma in relativistic heavy ion collisions. *Nucl. Phys. A*, **606**, 320.
- [83] L. Bravina, L. P. Csernai, P. Levai, and D. Strottman, 1994. Collective global dynamics in Au + Au collisions at the BNL AGS. *Phys. Rev. C*, **50**, 2161.
- [84] W. Broniowski and W. Florkowski, 2001. Description of the RHIC p_T -spectra in a thermal model with expansion. *Phys. Rev. Lett.*, **87**, 272302.
- [85] W. Busza, R. L. Jaffe, J. Sandweiss, and F. Wilczek, 2000. Review of speculative ‘disaster scenarios’ at RHIC. *Rev. Mod. Phys.*, **72**, 1125.
- [86] E. Byckling and K. Kajantie. *Particle Kinematics*. J. Wiley, New York, 1973.
- [87] N. Carrer, NA57 collaboration, 2001. First results on strange baryon production from the NA47 experiment. In [146].
- [88] A. Casher, H. Neuberger, and S. Nussinov, 1979. Chromoelectric-flux-tube model of particle production. *Phys. Rev. D*, **20**, 179.
- [89] W. Cassing, 2001. Antibaryon production in hot and dense nuclear matter. *Nucl. Phys. A*, *Nucl-th/0105069*.
- [90] P. Chen, N. Christ, G. Fleming, A. Kaehler, C. Malureanu, R. Mawhinney, G. Siebert, C. Sui, L. Wu, Y. Zhestkov, and P. Vranas, 2001. The finite temperature QCD phase transition with domain wall fermions. *Phys. Rev. D*, **64**, 14503.

- [91] S. A. Chin, 1978. Transition to hot quark matter in relativistic heavy-ion collision. *Phys. Lett. B*, **78**, 552.
- [92] A. Chodos, R. L. Jaffe, K. Johnson, and C. B. Thorn, 1974. Baryon structure in the bag theory. *Phys. Rev. D*, **10**, 2599.
- [93] A. Chodos, R. L. Jaffe, K. Johnson, C. B. Thorn, and V. F. Weisskopf, 1974. New extended model of hadrons. *Phys. Rev. D*, **9**, 3471.
- [94] A. Chodos and C. B. Thorn, 1975. Chiral invariance in a bag theory. *Phys. Rev. D*, **12**, 2733.
- [95] B. Combridge, 1979. Associated production of heavy flavour states in pp and $\bar{p}p$ interactions: Some QCD estimates. *Nucl. Phys. B*, **151**, 429.
- [96] F. Cooper and G. Frye, 1974. Single-particle distribution in the hydrodynamic and statistical thermodynamic models of multiparticle production. *Phys. Rev. D*, **10**, 186.
- [97] M. Creutz. *Quarks, Gluons and Lattices*. Cambridge University Press, Cambridge, 1983.
- [98] L. P. Csernai. *Introduction to Relativistic Heavy Ion Collisions*. J. Wiley and Sons, New York, 1994.
- [99] T. DeGrand, R. L. Jaffe, K. Johnson, and J. Kiskis, 1975. Masses and other parameters of the light hadrons. *Phys. Rev. D*, **12**, 2060.
- [100] M. D'Elia, A. Di Giacomo, and E. Meggiolaro, 1997. Field strength correlators in full QCD. *Phys. Lett. B*, **408**, 315.
- [101] M. D'Elia, A. Di Giacomo, and E. Meggiolaro, 1999. Gauge invariant quark-anti-quark nonlocal condensates in lattice QCD. *Phys. Rev. D*, **59**, 54503.
- [102] C. Derreth, W. Greiner, H.-Th. Elze, and J. Rafelski, 1985. Strangeness abundances in \bar{p} -nucleus annihilations. *Phys. Rev. C*, **31**, 1360.
- [103] C. DeTar. Quark gluon plasma in numerical simulations of lattice QCD. In R. C. Hwa, editor, *Quark Gluon Plasma*, volume II, page 1. World Scientific, Singapore, 1995.
- [104] D. Di Bari *et al.*, WA85 collaboration, 1995. Results on the production of baryons with $|s| = 1, 2, 3$ and strange mesons in S-W collisions at 200 GeV/c per nucleon. *Nucl. Phys. A*, **590**, 307c.
- [105] H. G. Dosch and S. Narison, 1998. Direct extraction of the chiral quark condensate and bounds on the light quark masses. *Phys. Lett. B*, **417**, 173.
- [106] M. S. Dubovikov and A. V. Smilga, 1981. Analytical properties of the quark polarization operator in an external selfdual field. *Nucl. Phys. B*, **185**, 109.
- [107] G. V. Efimov and S. N. Nedelko, 1998. (Anti-)selfdual homogeneous vacuum gluon field as an origin of confinement and $SU_L(N_F) \times SU_R(N_F)$ symmetry breaking in QCD. *Eur. Phys. J. C*, **1**, 343.

- [108] D. Elia *et al.*, NA57 collaboration. Results on cascade production in Pb–Pb interactions from the NA57 experiment. In *36th Rencontres de Moriond on QCD and Hadronic Interactions, Les Arcs, France, 2001*. Hep-ex/0105049.
- [109] E. Elizalde and J. Soto, 1986. A field configuration closer to the true QCD vacuum. *Z. Phys. C*, **31**, 237.
- [110] R. K. Ellis, W. J. Stirling, and B. R. Webber. *QCD and Collider Physics*. Cambridge University Press, New York, 1996.
- [111] H.-Th. Elze, W. Greiner, and J. Rafelski, 1983. On the color-singlet quark–gluon plasma. *Phys. Lett. B*, **124**, 515.
- [112] H.-Th. Elze, W. Greiner, and J. Rafelski, 1984. Color degrees of freedom in a quark–gluon plasma at finite baryon density. *Z. Phys. C*, **24**, 361.
- [113] H.-Th. Elze, J. Rafelski, and W. Greiner, 1980. The relativistic ideal Fermi gas revisited. *J. Phys. G*, **6**, L149.
- [114] H.-Th. Elze, J. Rafelski, and L. Turko, 2001. Entropy production in relativistic hydrodynamics collisions. *Phys. Lett. B*, **506**, 123.
- [115] J. Eshke, 1996. Strangeness enhancement in sulphur–nucleus collisions at 200 GeV/N. *Heavy Ion Phys.*, **4**, 105.
- [116] D. Evans *et al.*, WA85 collaboration, 1994. New results from WA85 on multistrange hyperon production in 200A GeV S–W interactions. *Nucl. Phys. A*, **566**, 225c.
- [117] D. Evans *et al.*, WA85 collaboration, 1995. Review of strange particle production from the WA85 collaboration. In [217], page 234.
- [118] D. Evans *et al.*, WA85 collaboration, 1996. Strangeness production in p–W and S–W interactions at 200A GeV. *Heavy Ion Phys.*, **4**, 79.
- [119] Y. Hama, F. Grassi, and T. Kodama, 1996. Particle emission in the hydrodynamical description of relativistic nuclear collisions. *Z. Phys. C*, **73**, 153.
- [120] E. L. Feinberg, 1976. Direct production of photons and dileptons in thermodynamical models of multiple hadron production. *Nuovo Cimento A*, **34**, 39.
- [121] E. Fermi, 1950. High-energy nuclear events. *Prog. Theor. Phys.*, **5**, 570.
- [122] E. Fermi, 1953. Multiple production of pions in nucleon–nucleon collisions at cosmotron energies. *Phys. Rev.*, **92**, 452.
- [123] H. Fritzsche, M. Gell-Mann, and H. Leutwyler, 1973. Advantages of the color octet gluon picture. *Phys. Lett. B*, **47**, 365.
- [124] S. Frixione, M. L. Mangano, P. Nason, and G. Ridolfi, 1998. Heavy quark production. *Adv. Ser. Direct. High Energy Phys.*, **15**, 609.
- [125] J. Gasser and H. Leutwyler, 1982. Quark masses. *Phys. Rep.*, **87**, 77.
- [126] M. Gaździcki, 1995. Entropy in nuclear collisions. *Z. Phys. C*, **66**, 659.

- [127] M. Gaździcki and D. Röhrich, 1995. Pion multiplicity in nuclear collisions. *Z. Phys. C*, **65**, 215.
- [128] M. Gaździcki and D. Röhrich, 1996. Strangeness in nuclear collisions. *Z. Phys. C*, **71**, 55.
- [129] K. Geiger, 1992. Thermalization in ultrarelativistic nuclear collisions. II. entropy production and energy densities at BNL relativistic Heavy Ion Collider and the CERN Large Hadron Collider. *Phys. Rev. D*, **46**, 4986.
- [130] K. Geiger, 1995. Space–time description of ultrarelativistic nuclear collisions in the QCD parton picture. *Phys. Rep.*, **258**, 238.
- [131] K. Geiger, 1997. VNI 3.1: MC simulation program to study high-energy particle collisions in QCD by space–time evolution of parton cascades and parton–hadron conversion. *Comput. Phys. Commun.*, **104**, 70.
- [132] N. K. Glendenning and T. Matsui, 1983. Creation of $q\bar{q}$ pairs in a chromoelectric flux tube. *Phys. Rev. D*, **28**, 2890.
- [133] M. I. Gorenstein, A. P. Kostyuk, H. Stöcker, and W. Greiner, 2001. Statistical coalescence model with exact charm conservation. *Phys. Lett. B*, **509**, 277.
- [134] C. Greiner, P. Koch, and H. Stöcker, 1987. Separation of strangeness from antistrangeness in the phase transition from quark to hadron matter: Possible formation of strange quark matter in heavy-ion collisions. *Phys. Rev. Lett.*, **58**, 1825.
- [135] C. Greiner and H. Stöcker, 1991. Distillation and survival of strange quark matter droplets in ultrarelativistic heavy ion collisions. *Phys. Rev. D*, **44**, 3517.
- [136] D. E. Groom *et al.* (Particle Data Group), 2000. Review of particle properties. *Eur. Phys. J. C*, **15**, 1.
- [137] H. Grote, R. Hagedorn, and J. Ranft. *Particle Spectra*. CERN black report, 1970.
- [138] J. Günther *et al.*, NA35 collaboration, 1995. Anti-baryon production in S^{32} + nucleus collisions at 200 GeV/nucleon. *Nucl. Phys. A*, **590**, 487c.
- [139] H. H. Gutbrod and J. Rafelski, editors. *Particle Production in Highly Excited Matter, Proceedings of Il Ciocco NATO Summer School*, volume 303. NATO Physics series B, Plenum Press, New York, 1993.
- [140] R. Hagedorn, 1965. Statistical thermodynamics of strong interactions at high energies. I. *Suppl. Nuovo Cimento*, **3**, 147.
- [141] R. Hagedorn. *Lectures on Thermodynamics of Strong Interactions*. CERN yellow report 71-12, 1971.
- [142] R. Hagedorn, 1983. The pressure ensemble as a tool for describing the hadron–quark phase transition. *Z. Phys. C*, **17**, 265.
- [143] R. Hagedorn, I. Montvay, and J. Rafelski. Thermodynamics of nuclear matter from the statistical bootstrap model. In N. Cabibbo and L. Sertorio,

- editors, *Hadronic Matter at Extreme Energy Density*. Plenum Press, New York, 1980.
- [144] R. Hagedorn and J. Rafelski, 1980. Hot hadronic matter and nuclear collisions. *Phys. Lett. B*, **97**, 136.
- [145] R. Hagedorn and J. Ranft, 1968. Statistical thermodynamics of strong interactions at high energies. II Momentum spectra of particles produced in pp-collisions. *Suppl. Nuovo Cimento*, **6**, 169.
- [146] T. J. Hallman *et al.*, editor. *Quark Matter'01, Brookhaven*. North Holland, Amsterdam, 2001.
- [147] S. Hamieh, J. Letessier, and J. Rafelski, 2000. Quark–gluon plasma fireball. *Phys. Rev. C*, **62**, 64901.
- [148] S. Hamieh, K. Redlich, and A. Tounsi, 2000. Canonical description of strangeness enhancement from p–A to Pb–Pb collisions. *Phys. Lett. B*, **486**, 61.
- [149] J. Hughes, 1980. Some comments on asymptotic freedom. *Phys. Lett. B*, **97**, 246.
- [150] M. Jamin and M. Münz, 1995. The strange quark mass from QCD sum rules. *Z. Phys. C*, **66**, 633.
- [151] K. Johnson, 1975. The M.I.T. bag model. *Acta Phys. Pol. B*, **6**, 865.
- [152] P. G. Jones *et al.*, NA49 collaboration, 1996. Hadron yields and hadron spectra from the NA49 experiment. *Nucl. Phys. A*, **610**, 188c.
- [153] S. Kabana *et al.*, NA52 collaboration, 1999. Centrality dependence of π^\pm , K^\pm , baryon and antibaryon production in Pb+Pb collisions at 158A GeV. *J. Phys. G*, **25**, 217.
- [154] K. Kajantie, J. Kapusta, M. Kataja, L. McLerran, and A. Mekjian, 1986. Dilepton emission and the QCD phase transition in ultrarelativistic nuclear collisions. *Phys. Rev. D*, **34**, 2746.
- [155] D. B. Kaplan, 1992. A method for simulating chiral fermions on the lattice. *Phys. Lett. B*, **288**, 342.
- [156] J. I. Kapusta, 1979. Quantum chromodynamics at high temperature. *Nucl. Phys. B*, **148**, 461.
- [157] J. I. Kapusta. *Finite-Temperature Field Theory*. Cambridge University Press, Cambridge, 1989.
- [158] J. I. Kapusta and S. M. H. Wong, 2001. Is anomalous production of Ω and $\bar{\Omega}$ evidence for disoriented chiral condensates? *Phys. Rev. Lett.*, **86**, 4251.
- [159] F. Karsch. Lattice QCD at high temperature and density. In *Lectures given at 40th Internationale Universitätswochen für Theoretische Physik: Dense Matter (IUKT 40), Schladming*, 2001. Hep-lat 106019.
- [160] F. Karsch, E. Laermann, and A. Peikert, 2000. The pressure in 2, 2 + 1 and 3 flavour QCD. *Phys. Lett. B*, **478**, 447.

- [161] F. Karsch, E. Laermann, and A. Peikert, 2001. Quark mass and flavor dependence of the QCD phase transition. *Nucl. Phys. B*, **605**, 579.
- [162] F. Karsch, E. Laermann, A. Peikert, and B. Sturm, 1999. The three flavour chiral phase transition with an improved quark and gluon action in lattice QCD. *Nucl. Phys. Proc. Suppl.*, **73**, 468.
- [163] M. Kataja, J. Letessier, P. V. Ruuskanen, and A. Tounsi, 1992. Equation of state and transverse expansion effects in heavy ion collisions. *Z. Phys. C*, **55**, 153.
- [164] P. Koch, B. Müller, and J. Rafelski, 1986. Strange quarks in relativistic nuclear collisions. *Phys. Rep.*, **142**, 167.
- [165] P. Koch and J. Rafelski, 1985. Time evolution of strange-particle densities in hot hadronic matter. *Nucl. Phys. A*, **444**, 678.
- [166] P. Koch and J. Rafelski, 1986. Why the hadronic gas description of hadronic reactions works: The example of strange hadrons. *S. Afr. J. Phys.*, **9**, 8.
- [167] P. Koch, J. Rafelski, and W. Greiner, 1983. Strange hadrons in hot nuclear matter. *Phys. Lett. B*, **123**, 151.
- [168] J. Kogut and L. Susskind, 1975. Hamiltonian formulation of Wilson's lattice gauge theories. *Phys. Rev. D*, **11**, 395.
- [169] K. Kolodziej and R. Ruckl, 1998. On the energy dependence of hadronic B_c production. *Nucl. Instrum. Methods A*, **408**, 33.
- [170] A. Kostyuk, M. I. Gorenstein, H. Stöcker, and W. Greiner, 2001. Second cluster integral and excluded volume effects for the pion gas. *Phys. Rev. C*, **63**, 44901.
- [171] I. Králik, *et al.*, WA97 collaboration, 1998. Λ , Ξ and Ω production in Pb–Pb collisions at 158A GeV. *Nucl. Phys. A*, **638**, 115.
- [172] L. D. Landau, 1953. On the multiparticle production in high-energy collisions. *Izv. Akad. Nauk SSSR, Ser. Fiz.*, **17**, 51. Reprinted in English translation in [173].
- [173] L. D. Landau. *Collected Papers of L. D. Landau*, D. Ter Haar, editor. Pergamon, Oxford, 1965.
- [174] L. D. Landau and S. Z. Belenkij, 1956. Hydrodynamic theory of multiple production of particles. *Usp. Phys. Nauk*, **56**, 309. Reprinted in English translation in [173].
- [175] L. D. Landau and E. M. Lifshitz. *Statistical Physics*. Pergamon, Oxford, 1985.
- [176] J. Letessier and J. Rafelski, 1999. Chemical non-equilibrium and deconfinement in 200A GeV sulphur induced reactions. *Phys. Rev. C*, **59**, 947.
- [177] J. Letessier and J. Rafelski, 1999. Chemical non-equilibrium in high energy nuclear collisions. *J. Phys. G*, **25**, 295.

- [178] J. Letessier and J. Rafelski, 2002. Rapidity particle spectra in sudden hadronization of QGP. *J. Phys. G*, **28**, 183.
- [179] J. Letessier, J. Rafelski, and A. Tounsi, 1994. Strange particle abundance in QGP formed in 200A GeV nuclear collisions. *Phys. Lett. B*, **323**, 393.
- [180] J. Letessier, J. Rafelski, and A. Tounsi, 1997. Strangeness in Pb–Pb collisions at 158A GeV. *Phys. Lett. B*, **410**, 315.
- [181] J. Letessier, J. Rafelski, and A. Tounsi, 2000. Low- m_{\perp} $\pi^{+}\pi^{-}$ asymmetry enhancement from hadronization of QGP. *Phys. Lett. B*, **475**, 213.
- [182] J. Letessier, A. Tounsi, U. Heinz, J. Sollfrank, and J. Rafelski, 1993. Evidence for a high entropy phase in nuclear collisions. *Phys. Rev. Lett.*, **70**, 3530.
- [183] J. Letessier, A. Tounsi, U. Heinz, J. Sollfrank, and J. Rafelski, 1995. Strange antibaryons and high entropy phase. *Phys. Rev. D*, **51**, 3408.
- [184] S. Y. Lo, editor. *Geometrical Pictures in Hadronic Collisions*. World Scientific, Singapore, 1987.
- [185] J. Madsen, 2001. Color-flavor locked strangelets. *Phys. Rev. Lett.*, **87**, 172003.
- [186] N. M. Mar *et al.*, 1996. Improved search for elementary particles with fractional electric charge. *Phys. Rev. D*, **53**, 1.
- [187] S. G. Matinian and G. K. Savvidy, 1978. On the radiative corrections to classical lagrangian and dynamical symmetry breaking. *Nucl. Phys. B*, **134**, 539.
- [188] T. Matsui and H. Satz, 1986. J/Ψ suppression by quark–gluon plasma formation. *Phys. Lett. B*, **178**, 416.
- [189] T. Matsui, B. Svetitsky, and L. D. McLerran, 1986. Strangeness production in ultrarelativistic heavy-ion collisions. *Phys. Rev. D*, **34**, 783.
- [190] H. E. Miettinen and P. M. Stevenson, 1987. Hadron–nucleus scattering as a function of nuclear size. *Phys. Lett. B*, **199**, 591.
- [191] D. P. Morrison and S. Sorenson *et al.*, WA98 collaboration. Private communication. 1996.
- [192] B. Müller. The physics of the quark–gluon plasma. In *Lecture Notes in Physics*, volume 225. Springer-Verlag, Berlin, 1984.
- [193] B. Müller and J. Rafelski, 1975. Stabilization of the charged vacuum created by very strong electrical fields in nuclear matter. *Phys. Rev. Lett.*, **34**, 349.
- [194] T. Muta. *Foundations of Quantum-Chromodynamics*. World Scientific, Singapore, 1987.
- [195] Y. Nambu and G. Jona-Lasinio, 1961. Dynamical model of elementary particles based on an analogy with superconductivity. I. *Phys. Rev.*, **122**, 345.

- [196] Y. Nara, 1998. A parton–hadron cascade approach in high-energy nuclear collisions. *Nucl. Phys. A*, **638**, 555c.
- [197] S. Narison, 1995. Model independent determination of $m(s)$ from τ -like inclusive decays in e^+e^- and implications for the χ_{SB} parameters. *Phys. Lett. B*, **358**, 113.
- [198] S. Narison, 1996. Heavy quarkonia mass splittings in QCD: Gluon condensate, α_s and $1/m$ expansion. *Phys. Lett. B*, **387**, 162.
- [199] H. B. Nielsen and P. Olesen, 1979. A quantum liquid model for the QCD vacuum: Gauge and rotational invariance of domain and quantized homogeneous color fields. *Nucl. Phys. B*, **160**, 380.
- [200] N. K. Nielsen and P. Olesen, 1978. An unstable Yang–Mills field mode. *Nucl. Phys. B*, **144**, 376.
- [201] I. Otterlund. Physics of relativistic nuclear collisions. In [139], page 57, 1993.
- [202] Y. Pang, T. J. Schlagel, and S. H. Kahana, 1992. ARC: A relativistic cascade. *Nucl. Phys. A*, **544**, 435c.
- [203] Y. Pang, T. J. Schlagel, and S. H. Kahana, 1992. Cascade for relativistic nucleus collisions. *Phys. Rev. Lett.*, **68**, 2743.
- [204] A. Peshier, B. Kämpfer, and G. Soff, 2000. Equation of state of deconfined matter at finite chemical potential in a quasiparticle description. *Phys. Rev. C*, **61**, 45203.
- [205] H. Pi, 1992. An event generator for interactions between hadrons and nuclei: FRITIOF version 7.0. *Comput. Phys. Commun.*, **71**, 173.
- [206] R. D. Pisarski and D. H. Rischke, 1999. Superfluidity in a model of massless fermions coupled to scalar bosons. *Phys. Rev. D*, **60**, 4013.
- [207] R. D. Pisarski and D. H. Rischke, 2000. Color superconductivity in weak coupling. *Phys. Rev. D*, **61**, 74017.
- [208] J. Podolanski and R. Armenteros, 1954. Analysis of V-events. *Phil. Mag.*, **45**, 13.
- [209] S. Pratt, T. Csorgo, and J. Zimanyi, 1990. Detailed predictions for 2-pion correlations in ultrarelativistic heavy-ion collisions. *Phys. Rev. C*, **42**, 2646.
- [210] S. D. Protopopescu *et al.*, 1973. $\pi\pi$ partial wave analysis from reactions $\pi^+p \rightarrow \pi^+\pi^-\Delta^{++}$ and $\pi^+p \rightarrow K^+K^-\Delta^{++}$ at 7.1 GeV/c. *Phys. Rev. D*, **7**, 1279.
- [211] E. Quercigh, 1993. Strangeness in ultrarelativistic nucleus–nucleus interactions. In [139], page 499.
- [212] C. Quintans *et al.*, NA50 collaboration, 2001. Production of the ϕ vector-meson in heavy-ion collisions. *J. Phys. G*, **27**, 405.
- [213] J. Rafelski. Extreme states of nuclear matter. In R. Bock and R. Stock, editors, *Workshop on Future Relativistic Heavy Ion Experiment*, page 282. GSI-Yellow Report 81-6, Darmstadt, 1981.

- [214] J. Rafelski, 1982. Extreme states of nuclear matter. *Nucl. Phys. A*, **374**, 489c.
- [215] J. Rafelski, 1982. Formation and observables of the quark gluon plasma. *Phys. Rep.*, **88**, 331.
- [216] J. Rafelski, 1991. Strange antibaryons from quark–gluon plasma. *Phys. Lett. B*, **262**, 333.
- [217] J. Rafelski, editor. *Strangeness in Hadronic Matter: S'95, Proceedings of Tucson workshop*, volume 340. American Institute of Physics Proceedings Series, New York, 1995.
- [218] J. Rafelski and M. Danos, 1980. The importance of the reaction volume in hadronic collisions. *Phys. Lett. B*, **97**, 279.
- [219] J. Rafelski, L. P. Fulcher, and A. Klein, 1978. Theory of elementary particles interacting with arbitrarily strong classical fields. *Phys. Rep.*, **38**, 227.
- [220] J. Rafelski and R. Hagedorn. From hadron gas to quark matter II. In H. Satz, editor, *Statistical Mechanics of Quarks and Hadrons*, page 253. North Holland, Amsterdam, 1981.
- [221] J. Rafelski and J. Letessier, 1999. Expected production of strange baryons and antibaryons in baryon-poor QGP. *Phys. Lett. B*, **469**, 12.
- [222] J. Rafelski and J. Letessier, 2000. Sudden hadronization in relativistic nuclear collisions. *Phys. Rev. Lett.*, **85**, 4695.
- [223] J. Rafelski and J. Letessier, 2002. Importance of reaction volume in hadronic collisions: Canonical enhancement. In press in [254], hep-ph/0112151.
- [224] J. Rafelski, J. Letessier, and G. Torrieri, 2001. Strange hadrons and their resonances: A diagnostic tool of quark–gluon plasma freeze-out dynamics. *Phys. Rev. C*, **64**, 54907.
- [225] J. Rafelski, J. Letessier, and A. Tounsi, 1996. Strange particles from dense hadronic matter. *Acta. Phys. Pol. B*, **27**, 1037.
- [226] J. Rafelski and B. Müller, 1982. Strangeness production in the quark–gluon plasma. *Phys. Rev. Lett.*, **48**, 1066. See also *Phys. Rev. Lett.*, **56**, 2334E (1986).
- [227] K. Rajagopal and F. Wilczek. The condensed matter physics of QCD. In M. Shifman, editor, *At the Frontier of Particle Physics, Handbook of QCD*, volume 2. World Scientific, 2000. Festschrift in honor of B. L. Ioffe.
- [228] K. Redlich, S. Hamieh, and A. Tounsi, 2001. Statistical hadronization and strangeness enhancement from p–A to Pb–Pb collisions. *J. Phys. G*, **27**, 413.
- [229] K. Redlich and L. Turko, 1980. Phase transitions in the statistical bootstrap model with an internal symmetry. *Z. Phys. C*, **5**, 201.

- [230] C. Roland *et al.*, PHOBOS collaboration. First results from the PHOBOS experiment at RHIC. In *36th Rencontres de Moriond on QCD and Hadronic Interactions, Les Arcs, France*, 2001.
- [231] P. Roy, J. Alam, S. Sarkar, B. Sinha, and S. Raha, 1997. Quark–gluon plasma diagnostics in a successive equilibrium scenario. *Nucl. Phys. A*, **624**, 687.
- [232] A. Rusek *et al.*, E886 collaboration, 1996. Strangelet search and light nucleus production in relativistic Si + Pt and Au + Pt collisions. *Phys. Rev. C*, **54**, 15.
- [233] A. Sandoval *et al.*, 1980. Energy dependence of multi-pion production in high-energy nucleus–nucleus collisions. *Phys. Rev. Lett.*, **45**, 874.
- [234] R. Santo *et al.*, WA80 collaboration, 1989. π^0 and photon spectra from central and peripheral O^{16} + Au collisions at 200A GeV. *Nucl. Phys. A*, **498**, 391c.
- [235] R. Santo *et al.*, WA80 collaboration, 1994. Single photon and neutral meson data from WA80. *Nucl. Phys. A*, **566**, 61c.
- [236] G. K. Savvidy, 1977. Infrared instability of the vacuum state of gauge theories and asymptotic freedom. *Phys. Lett. B*, **71**, 133.
- [237] B. R. Schlei, D. Strottman, J. P. Sullivan, and H. W. van Hecke, 1999. Bose–Einstein correlations and the equation of state of nuclear matter. *Eur. Phys. J. C*, **10**, 483.
- [238] E. Schnedermann, J. Sollfrank, and U. Heinz. Fireball spectra. In [139], page 175, 1993.
- [239] M. Schroedter, R. L. Thews, and J. Rafelski, 2000. B_c meson production in nuclear collisions at RHIC. *Phys. Rev. C*, **62**, 24905.
- [240] J. Schwinger, 1951. On gauge invariance and vacuum polarization. *Phys. Rev.*, **82**, 664.
- [241] P. Senger and H. Stroebele, 1999. Hadronic particle production in nucleus–nucleus collisions. *J. Phys. G*, **25**, R59.
- [242] M. A. Shifman. *Vacuum Structure and QCD Sum Rules*. North Holland, Amsterdam, 1992.
- [243] M. A. Shifman, A. I. Vainshtein, and V. I. Zakharov, 1979. QCD and resonance physics. *Nucl. Phys. B*, **147**, 385, 448, and 519.
- [244] E. V. Shuryak, 1978. Quark–gluon plasma and hadronic production of leptons, photons and psions. *Phys. Lett. B*, **78**, 150.
- [245] E. V. Shuryak. *The QCD Vacuum, Hadrons and the Superdense Matter*. World Scientific, Singapore, 1988.
- [246] E. V. Shuryak and J. J. M. Verbaarschot, 1992. On baryon number violation and nonperturbative weak processes at SSC energies. *Phys. Rev. Lett.*, **68**, 2576.

- [247] E. V. Shuryak and L. Xiong, 1993. Dilepton and photon production in the “hot-gluon” scenario. *Phys. Rev. Lett.*, **70**, 2241.
- [248] F. Siklér *et al.*, NA49 collaboration, 1999. Hadron production in nuclear collisions from the NA49 experiment at 158A GeV. *Nucl. Phys. A*, **661**, 45c.
- [249] J. Sollfrank, U. Heinz, H. Sorge, and N. Xu, 1999. Thermal analysis of hadron multiplicities from RQMD. *Phys. Rev. C*, **59**, 1637.
- [250] H. Sorge, 1995. Flavor production in Pb (160A GeV) on Pb collisions: Effect of color ropes and hadronic rescattering. *Phys. Rev. C*, **52**, 3291.
- [251] J. Soto, 1985. Relations between quark and gluon condensates from one loop effective actions in constant background fields. *Phys. Lett. B*, **165**, 389.
- [252] D. K. Srivastava, M. G. Mustafa, and B. Müller, 1997. Chemical equilibration of an expanding quark–gluon plasma. *Phys. Lett. B*, **45**, 396.
- [253] D. K. Srivastava, M. G. Mustafa, and B. Müller, 1997. Expanding quark–gluon plasmas: Transverse flow, chemical equilibration and electromagnetic radiation. *Phys. Rev. C*, **56**, 1064.
- [254] H. Stöcker *et al.*, editors. *Proceedings of SQM 2001. J. Phys. G* (in preparation), 2002. Recent results from SPS and RHIC.
- [255] L. R. Surguladze and M. A. Samuel, 1996. Decay widths and total cross sections in perturbative QCD. *Rev. Mod. Phys.*, **68**, 259.
- [256] S. Théberge, A. W. Thomas, and G. A. Miller, 1980. Pionic corrections to the MIT bag model: The (3, 3) resonance. *Phys. Rev. D*, **22**, 2838.
- [257] R. L. Thews, M. Schroedter, and J. Rafelski, 2001. Enhanced J/Ψ production in deconfined quark matter. *Phys. Rev. C*, **63**, 54905.
- [258] A. W. Thomas, S. Théberge, and G. A. Miller, 1981. Cloudy bag model of the nucleon. *Phys. Rev. D*, **24**, 216.
- [259] G. Torrieri and J. Rafelski, 2001. Search for QGP and thermal freeze-out of strange hadrons. *New J. Phys.*, **3**, 12.
- [260] G. Torrieri and J. Rafelski, 2001. Strange hadron resonances as a signature of freeze-out dynamics. *Phys. Lett. B*, **509**, 239.
- [261] B. Touschek, 1968. Covariant statistical mechanics. *Nuovo Cimento B*, **58**, 295.
- [262] L. Turko, 1981. Quantum gases with internal symmetry. *Phys. Lett. B*, **104**, 153.
- [263] H. van Hecke, H. Sorge, and N. Xu, 1998. Evidence of early multistrange hadron freezeout in high-energy nuclear collisions. *Phys. Rev. Lett.*, **81**, 5764.
- [264] H. Vija and M. H. Thoma, 1995. Braaten–Pisarski method at finite chemical potential. *Phys. Lett. B*, **342**, 212.

- [265] P. M. Vranas, 1998. Chiral symmetry restoration in the Schwinger model with domain wall fermions. *Phys. Rev. D*, **57**, 1415.
- [266] X.-N. Wang, 1997. PQCD based approach to parton production and equilibration in high-energy nuclear collisions. *Phys. Rep.*, **280**, 287.
- [267] S. Weinberg. *Gravitation and Cosmology*. J. Wiley, New York, 1972.
- [268] S. Weinberg. *The Quantum Theory of Fields*, volume I and II. Cambridge University Press, Cambridge, 1995/96.
- [269] H. A. Weldon, 1982. Covariant calculations at finite temperature: The relativistic plasma. *Phys. Rev. D*, **26**, 1394.
- [270] H. A. Weldon, 1982. Effective fermion masses of order gT in high temperature gauge theories with exact chiral invariance. *Phys. Rev. D*, **26**, 2789.
- [271] K. Werner, 2001. Tools for RHIC: Review of models. *J. Phys. G*, **27**, 625.
- [272] U. A. Wiedemann and U. Heinz, 1999. Particle interferometry for relativistic heavy ion collisions. *Phys. Rep.*, **319**, 145.
- [273] K. Wilson, 1974. Confinement of quarks. *Phys. Rev. D*, **10**, 2445.
- [274] L. A. Winckelmann *et al.*, 1996. Microscopic calculations of stopping and flow from 160A MeV to 160A GeV. *Nucl. Phys. A*, **610**, 116c.
- [275] S. M. H. Wong, 1996. Thermal and chemical equilibration in a gluon plasma. *Phys. Rev. C*, **54**, 2588.
- [276] S. M. H. Wong, 1997. α_s dependence in the equilibration in relativistic heavy ion collisions. *Phys. Rev. C*, **56**, 1075.
- [277] A. K. Wróblewski, 1985. On the strange quark suppression factor in high energy collisions. *Acta Phys. Pol. B*, **16**, 379.
- [278] L. Xiong and E. V. Shuryak, 1994. Gluon multiplication in high energy heavy ion collisions. *Phys. Rev. C*, **49**, 2203.
- [279] Z. Xu, STAR collaboration, 2001. Resonance studies at STAR. In [146], page 607.
- [280] F. J. Ynduráin. *Quantum Chromodynamics*. Springer Verlag, Berlin, 1999.
- [281] W. A. Zajc, PHENIX collaboration, 2001. Overview of PHENIX results from the first RHIC run. In [146].
- [282] C. Zhai and B. Kastening, 1995. Free energy of hot gauge theories with fermions through g^5 . *Phys. Rev. D*, **52**, 7232.
- [283] B. Zhang, M. Gyulassy, and Y. Pang. Strangeness production via parton cascade. In *Proceedings of the Strangeness'96 Workshop, Budapest*, page 361, 1996.

