

## Publications of J. Stachel

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672. S. Acharya *et al.* [ALICE], Production of light (anti)nuclei in pp collisions at  $\sqrt{s} = 5.02$  TeV, Eur. Phys. J. C **82** 289 (2022) 289, [arXiv:2112.00610 [nucl-ex]].
673. S. Acharya *et al.* [ALICE], Forward rapidity  $J/\psi$  production as a function of charged-particle multiplicity in pp collisions at  $\sqrt{s} = 5.02$  and 13 TeV, JHEP **06** (2022) 015, [arXiv:2112.09433 [nucl-ex]].
674. S. Acharya *et al.* [ALICE], Neutral to charged kaon yield fluctuations in Pb – Pb collisions at  $s_{NN}=2.76$  TeV, Phys. Lett. B **832** (2022) 137242, [arXiv:2112.09482 [nucl-ex]].
675. S. Acharya *et al.* [ALICE], Multiplicity dependence of charged-particle jet production in pp collisions at  $\sqrt{s} = 13$  TeV, Eur. Phys. J. C **82** (2022) 516, [arXiv:2202.01548 [nucl-ex]].
676. S. Acharya *et al.* [ALICE], First measurement of the absorption of  $^3\overline{\text{He}}$  nuclei in matter and impact on their propagation in the galaxy, [arXiv:2202.01549 [nucl-ex]].
677. [ALICE], ALICE luminosity determination for Pb–Pb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV, [arXiv:2204.10148 [nucl-ex]].
678. [ALICE], Study of charged particle production at high  $p_T$  using event topology in pp, p–Pb and Pb–Pb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV, [arXiv:2204.10157 [nucl-ex]].
679. [ALICE], First measurement of antideuteron number fluctuations at energies available at the Large Hadron Collider, [arXiv:2204.10166 [nucl-ex]].
680. [ALICE], Measurement of the production of charm jets tagged with  $D^0$  mesons in pp collisions at  $\sqrt{s} = 5.02$  and 13 TeV, [arXiv:2204.10167 [nucl-ex]].
681. [ALICE], Measurement of the  $J/\psi$  polarization with respect to the event plane in Pb-Pb collisions at the LHC, [arXiv:2204.10171 [nucl-ex]].

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684. [ALICE], Measurements of the groomed jet radius and momentum splitting fraction with the soft drop and dynamical grooming algorithms in pp collisions at  $\sqrt{s} = 5.02$  TeV, [arXiv:2204.10246 [nucl-ex]].
685. [ALICE], Measurement of  $\psi(2S)$  production as a function of charged-particle pseudorapidity density in pp collisions at  $\sqrt{s} = 13$  TeV and p-Pb collisions at  $\sqrt{s_{NN}} = 8.16$  TeV with ALICE at the LHC, [arXiv:2204.10253 [nucl-ex]].
686. [ALICE], First measurement of the  $\Lambda$ - $\Xi$  interaction in proton-proton collisions at the LHC, [arXiv:2204.10258 [nucl-ex]].
687. [ALICE], Multiplicity and rapidity dependence of  $K^*(892)^0$  and  $\phi(1020)$  production in p-Pb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV, [arXiv:2204.10263 [nucl-ex]].
688. [ALICE], Measurement of inclusive and leading subjet fragmentation in pp and Pb-Pb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV, [arXiv:2204.10270 [nucl-ex]].
689. [ALICE], Measurement of beauty-strange meson production in Pb-Pb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV via non-prompt  $D_s^+$  mesons, [arXiv:2204.10386 [nucl-ex]].
690. [ALICE], Underlying-event properties in pp and p-Pb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV, [arXiv:2204.10389 [nucl-ex]].
691. [ALICE],  $W^\pm$ -boson production in p-Pb collisions at  $\sqrt{s_{NN}} = 8.16$  TeV and PbPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV, [arXiv:2204.10640 [nucl-ex]].
692. [ALICE], Photoproduction of low- $p_T$   $J/\psi$  from peripheral to central Pb-Pb collisions at 5.02 TeV, [arXiv:2204.10684 [nucl-ex]].
693. [ALICE], First measurement of  $\Omega_c^0$  production in pp collisions at  $\sqrt{s} = 13$  TeV, [arXiv:2205.13993 [nucl-ex]].
694. [ALICE],  $\Sigma(1385)^\pm$  resonance production in Pb-Pb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV, [arXiv:2205.13998 [nucl-ex]].
695. [ALICE], Closing in on critical net-baryon fluctuations at LHC energies: cumulants up to third order in Pb-Pb collisions, [arXiv:2206.03343 [nucl-ex]].
696. [ALICE], Towards the understanding of the genuine three-body interaction for p-p-p and p-p- $\Lambda$ , [arXiv:2206.03344 [nucl-ex]].
697. [ALICE], Observation of flow angle and flow magnitude fluctuations in Pb-Pb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV at the LHC, [arXiv:2206.04574 [nucl-ex]].
698. [ALICE], Anisotropic flow and flow fluctuations of identified hadrons in Pb-Pb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV, [arXiv:2206.04587 [nucl-ex]].
699. [ALICE], Performance of the ALICE Electromagnetic Calorimeter, [arXiv:2209.04216 [physics.ins-det]].



700. [ALICE], Neutron emission in ultraperipheral Pb-Pb collisions at  $\sqrt{s_{\text{NN}}} = 5.02$  TeV, [arXiv:2209.04250 [nucl-ex]].
701. [ALICE], Multiplicity dependence of  $\Upsilon$  production at forward rapidity in pp collisions at  $\sqrt{s} = 13$  TeV, [arXiv:2209.04241 [nucl-ex]].
702. [ALICE],  $\psi(2S)$  suppression in Pb-Pb collisions at the LHC, [arXiv:2210.08893 [nucl-ex]].
703. [ALICE], Measurements of azimuthal anisotropies at forward and backward rapidity with muons in high-multiplicity p-Pb collisions at  $\sqrt{s_{\text{NN}}} = 8.16$  TeV, [arXiv:2210.08980 [nucl-ex]].
704. [ALICE], Letter of intent for ALICE 3: A next-generation heavy-ion experiment at the LHC, [arXiv:2211.02491 [physics.ins-det]].
705. [ALICE], The ALICE experiment - A journey through QCD, [arXiv:2211.04384 [nucl-ex]].
706. [ALICE], Measurement of the angle between jet axes in pp collisions at  $\sqrt{s} = 5.02$  TeV, [arXiv:2211.08928 [nucl-ex]].
707. [ALICE], Production of  $K_S^0$ ,  $\Lambda$  ( $\bar{\Lambda}$ ),  $\Xi^\pm$  and  $\Omega^\pm$  in jets and in the underlying event in pp and p-Pb collisions, [arXiv:2211.08936 [nucl-ex]].
708. A. Collaboration [ALICE], Two-particle transverse momentum correlations in pp and p-Pb collisions at LHC energies, [arXiv:2211.08979 [nucl-ex]].
709. [ALICE], Measurement of electrons from beauty-hadron decays in pp and Pb-Pb collisions at  $\sqrt{s_{\text{NN}}} = 5.02$  TeV, [arXiv:2211.13985 [nucl-ex]].
710. [ALICE], Light (anti)nuclei production in Pb-Pb collisions at  $\sqrt{s_{\text{NN}}} = 5.02$  TeV, [arXiv:2211.14015 [nucl-ex]].
711. [ALICE], First measurement of  $\Lambda_c^+$  production down to  $p_T = 0$  in pp and p-Pb collisions at  $\sqrt{s_{\text{NN}}} = 5.02$  TeV, [arXiv:2211.14032 [nucl-ex]].
712. [ALICE],  $J/\psi$  production at midrapidity in p-Pb collisions at  $\sqrt{s_{\text{NN}}} = 8.16$  TeV, [arXiv:2211.14153 [nucl-ex]].
713. [ALICE], Investigation of  $K^+K^-$  interactions via femtoscopy in Pb-Pb collisions at  $\sqrt{s_{\text{NN}}} = 2.76$  TeV at the LHC, [arXiv:2211.15194 [nucl-ex]].
714. [ALICE], Enhanced deuteron coalescence probability in jets, [arXiv:2211.15204 [nucl-ex]].
715. A. Collaboration [ALICE], Multiplicity dependence of charged-particle production in pp, p-Pb, Xe-Xe and Pb-Pb collisions at the LHC, [arXiv:2211.15326 [nucl-ex]].
716. A. Collaboration [ALICE], Pseudorapidity densities of charged particles with transverse momentum thresholds in pp collisions at  $\sqrt{s} = 5.02$  and 13 TeV, arXiv:2211.15364 [nucl-ex].

## Talks presented at Conferences

1. Frühjahrstagung der Deutschen Physikalischen Gesellschaft, München 17.-21.3.80  
J. Stachel, N. Kaffrell, H. Emling, H. Folger, E. Grosse, R. Kulesa and D. Schwalm,  
Multiple Coulombanregung von  $^{104}\text{Ru}$
2. 2nd Specialized Workshop on Interacting Bose-Fermi systems in nuclei, Erice, Sicily,  
12.-19.6.80  
J. Stachel, Is the cut-off as predicted by the IBM observed in recent Coulomb exci-  
tation experiments performed at GSI?
3. Frühjahrstagung der Deutschen Physikalischen Gesellschaft, Hamburg, 23.-27.3.81  
J. Stachel, N. Kaffrell, N. Trautmann, H. Emling, H. Folger, E. Grosse, R. Kulesa,  
D. Schwalm, K. Broden, G. Skarnemark and D. Eriksen, Phase transition in nuclear  
shape in the  $A \approx 100$  region
4. 4th International Conference on Nuclei far from Stability, Helsingor, 7.-13.6.81  
J. Stachel, Phase transition in nuclear shape in the  $A \approx 100$  region? (invited talk)
5. The 14th Mazurian Summer School on Nuclear Physics, Mikolajki, 31.8.-12.9.81  
J. Stachel, Deformed nuclei around  $A=100$ ?
6. XXth International Winter Meeting on Nuclear Physics, Bormio, 25.-30.1.82  
J. Stachel, Evidence for triaxiality in  $^{104}\text{Ru}$  (invited talk)
7. Frühjahrstagung der Deutschen Physikalischen Gesellschaft, Karlsruhe, 22.-26.3.82  
J. Stachel, N. Kaffrell, H. Emling, H. Folger, E. Grosse, R. Kulesa and D. Schwalm,  
Zur Struktur von  $^{104}\text{Ru}$
8. 14. Expertentreffen für Kernphysik, Schleching, 1.-12.3.83  
J. Stachel, Bestimmung kollektiver Koordinaten aus E2-Momenten
9. Frühjahrstagung der Deutschen Physikalischen Gesellschaft, Münster, 21.-25.3.83  
J. Stachel, P. Hill, N. Kaffrell, H. Emling, H. Grein, E. Grosse, R. Kulesa, C.  
Michel, H.J. Wollersheim, D. Schwalm, S. Brüssermann, Evidence for non-axial nu-  
clear shape from electromagnetic moments (invited talk)
10. Conference on Nuclear Structure and Particle Physics, 23.-25.3.83, Liverpool  
J. Stachel, Nuclear shape and dynamics in the  $A=100$  region (invited talk)
11. Gordon Research Conference on Nuclear Chemistry, 20.-24.6.83, New London  
J. Stachel, Collective and single particle degrees of freedom around  $A=100$
12. Workshop on electromagnetic properties of high spin states, 9.-13.1.84, Ein Boqek,  
Israel  
J. Stachel, Collective structure around  $A \approx 100$  (invited talk)
13. 187th National Meeting of the American Chemical Society, 4/8-4/13/84, St. Louis  
J. Stachel, Collective structure around  $A=100$  (invited talk)
14. Spring meeting of the American Physical Society, 4/23-4/26/84, Washington  
J. Stachel, P. Braun-Munzinger, P. Paul, L. Ricken, P.H. Zhang, G.R. Young, F.E.  
Obenshain and E. Grosse, Collectivity in subthreshold pion production
15. INS-RIKEN Int.Symp. on Heavy Ion Nuclear Physics, 8/27-8/31/84, Mt. Fuji, Japan  
J. Stachel, P. Braun-Munzinger, P. Paul, P.H. Zhang, F.E. Obenshain, F. Plasil  
and G.R. Young, Pion production in heavy ion reactions near absolute thresholds  
(invited talk)

16. 7th High Energy Heavy Ion Study, GSI Darmstadt, 10/8-10/12/84  
J. Stachel, Subthreshold  $\pi^0$  production (invited talk)
17. XIIIth Int. Workshop on Gross Properties of Nuclei and Nuclear Excitations, Hirschegg, Jan.13-19,1985  
J. Stachel, Pion production in heavy ion reactions near absolute thresholds
18. Niels Bohr Centennial Symposium on Nuclear Structure, Copenhagen, May 1985  
J. Stachel, Pion production - a probe for coherence in medium energy heavy ion collisions (invited talk)
19. 189th National Meeting of the American Chemical Society, Miami, 5/85  
J. Stachel, P. Braun-Munzinger, P. Paul, F.E. Obenshain, F. Plasil, G.R. Young, Pion production in heavy ion reaction near absolute thresholds (invited talk)
20. Workshop on Local Equilibrium in Strong Interaction Physics, Santa Fe, 4/8 - 4/13/86  
J. Stachel, Photon and Pion Production in Medium Energy Heavy Ion Reactions (invited talk)
21. International Nuclear Physics Conference, Harrogate 8/25-30/1986, UK  
J. Stachel, Pion and photon production - a probe for coherence in medium energy heavy ion collisions (invited talk)
22. Fourth Gull Lake Nuclear Physics Meeting "Energetic products of heavy ion collisions", Gull Lake, May 17-20, 1987  
J. Stachel, Pion production in heavy ion collisions close to absolute thresholds (invited talk)
23. Fall Meeting of the American Physical Society, New Brunswick 10/15-18/87:  
J. Stachel, P. Braun-Munzinger, R. Scharf, Photon response of a Pb-glass Cerencov detector
24. Texas A&M Symposium On Hot Nuclei, College Station, Texas, 12/7-10/87  
J. Stachel, From nuclear to hadronic fireballs (invited talk)
25. Conference on Intersections between Nuclear and Particle Physics, Rockport Maine, May 12-18,1988  
J. Stachel, New results from experiment E814 (invited talk)
26. Quarkmatter '88, Lenox, September 25-30,1988  
J. Stachel, Stopping and energy flow in relativistic nucleus-nucleus collisions
27. International Workshop on Nuclear Dynamics at Medium and High Energies Bad Honnef, Germany, October 10-14, 1988  
J. Stachel, Stopping in relativistic heavy ion collisions (invited talk)
28. HIPAGS - Workshop on the Relativistic Heavy Ion Program at the AGS Brookhaven National Lab., March 6-8, 1990  
J. Stachel, Successes and Failures of the Fireball Model
29. Quarkmatter '90, Menton, France, May 7-11, 1990  
J. Stachel, Experimental survey of global observables (invited talk)
30. Panic XII, MIT Boston, June 25-29, 1990  
J. Stachel, Relativistic Nucleus-Nucleus Collisions at the AGS - Survey of Experimental Results (invited talk)

31. International Symposium on High Energy Nuclear Collisions and Quark-Gluon Plasma, Kyoto, Japan, June 6-9, 1991  
J. Stachel for the E814 collaboration, Recent Results from E814.
32. Fourth International Conference on Nucleus-Nucleus Collisions, Kanazawa, Japan, June 10-14, 1991.  
J. Stachel for the E814 collaboration, Baryon Distributions at 14.6 GeV/nucleon
33. Gross Properties of Nuclei and Nuclear Excitations, International Workshop XX, Hirschegg, Austria, January 1992.  
J. Stachel, Baryon and Pion Distributions from Nucleus-Nucleus Collisions at 15 GeV/nucleon.
34. Int. Symposium on Heavy Ion Physics at the AGS, HIPAGS '93, January 13-15, 1993, MIT, Boston: J. Stachel, Conference Summary (invited talk).
35. 2nd International Conference on Physics and Astrophysics of the Quark-Gluon Plasma, January 19-23, 1993, Calcutta, India  
J. Stachel, The Relativistic Heavy Ion Program at the Brookhaven AGS (invited Talk).
36. Symposium on Advanced Instrumentation for Nuclear Research, Bhabha Atomic Research Centre, Bombay, India, January 27-29, 1993, India  
J. Stachel, Measurement of Direct Photons at RHIC.
37. 159th National Meeting of the American Association for the Advancement of Science, Boston, February 1993  
J. Stachel, Exploring New States of Matter with Ultrarelativistic Collisions of Nuclei (invited talk).
38. Topical Workshop on Meson Production in Nuclear Collisions, GSI, Germany, May 1993  
J. Stachel, Meson Spectra from E814 at the Brookhaven AGS (invited talk).
39. Quark Matter '93, Borlänge, Sweden, June 1993  
J. Stachel for the E814 Collaboration, Particle Spectra and Correlations from AGS experiment 814 (invited talk).
40. Nuclear Physics Gordon Conference, July 26, 1993, Tilton,  
J. Stachel, Matter at High Density and Temperature - Recent Results from the AGS Heavy Ion Program (invited talk).
41. 9th General Conference of the European Physical Society "Trends in Physics", Florence, Italy, September 1993  
J. Stachel, Hot and Dense Matter Created in Ultrarelativistic Heavy Ion Collisions at the Brookhaven AGS (invited talk).
42. European Research Conference "Nuclear Physics", Vuosaari, Finland, June 1994  
J. Stachel, Results from Truly Heavy Ion Experiments at the BNL AGS (invited talk).
43. Nato Advanced Research Workshop "Hot Hadronic Matter: Theory and Experiment", Divonne-Les-Bains, June 1994  
J. Stachel, Matter at Extreme Conditions from Ultra-relativistic Au-Au Collisions at the AGS (invited talk).

44. APS Fall Meeting of the DNP, Williamsburg, October 1994,  
J. Stachel Information on Nuclear Fireballs from Particle Spectra of Strange and Nonstrange Hadrons (invited talk).
45. Workshop “The PHENIX Experiment at RHIC”, CCAST, Beijing, China, November 1994  
J. Stachel, Heavy Ion Physics at the BNL AGS.
46. The 11th Nordic Meeting on Intermediate and High Energy Nuclear Physics, Gräftåvallen, Sweden, January 1995  
J. Stachel, Au + Au Collisions at the AGS: Matter at Extreme Density and High Temperature (invited talk).
47. AGS User’s Meeting, BNL, June 16, 1995  
J. Stachel, Recent Results from E877 (invited talk).
48. Second International Workshop on Heavy Ion Physics and its Applications, Lanzhou, August 29 - 31, 1995  
J. Stachel, Results from the AGS Relativistic Heavy Ion Program (invited talk).
49. Board of Physics and Astronomy of the US National Research Council, November 4, 1995  
J. Stachel, An assessment of nuclear physics.
50. International Conference on Nuclear Physics at the Turn of the Millennium, Wilderness, South Africa, March 10-16, 1996  
J. Stachel, Probing the equation of state of dense matter with relativistic heavy ion collisions. (invited talk)
51. Workshop ‘The Quark, the Plasma and Beyond’, Bielefeld, May 17-18, 1996  
J. Stachel, The search for QGP in heavy ion collisions. (invited talk)
52. Quark Matter ’96, Heidelberg, May 20-24, 1996  
J. Stachel, Tests of thermalization. (invited talk)
53. PANIC 96, Williamsburg, Virginia, May 22-28, 1996  
J. Stachel, Exploring the phase boundary to the quark-gluon plasma in collisions between high energy nuclei. (invited talk)
54. 20th Johns Hopkins Workshop on Non-Perturbative Particle Theory and Experimental Tests, Heidelberg, June 27-29, 1996  
J. Stachel, Heavy Ion Collisions. (invited talk)
55. Workshop HBT ’96, Particle Interferometry in High Energy Heavy Ion Collisions, Trento, September 16-27, 1996  
J. Stachel, Remarks about correlations and freeze-out.
56. Int. Research Workshop “Heavy Ion Physics at Low, Intermediate and Relativistic Energies using  $4\pi$  Detectros, Poiana Brasov, Romania, October 7-14, 1996  
J. Stachel, Energy and Particle Flow in Au + Au Collisions at the AGS. (invited talk).
57. XXVIII Arbeitstreffen Kernphysik, Schleching, March 5-13, 1997  
J. Stachel, Quarkmaterie (invited lectures).

58. ECT Trento, Workshop on Equilibration in Relativistic Heavy Ion Collisions, April 7-11, 1997  
J. Stachel, Review of Hadron Yields and Spectra from the AGS Heavy Ion Program.
59. Extended NuPECC Meeting, Garching, April 25-26, 1997  
J. Stachel, Nucleus-Nucleus Collisions and the Phase Transitions of Nuclear Matter.
60. Nuclear Matter in Different Phases and Transitions, Les Houches, March 31 - April 10, 1998  
J. Stachel, Flow Phenomena as Possible Signals of the QCD Phase Transition (invited talk).
61. Meson '98, Workshop on Production, Properties and Interaction of Mesons, Crakow, May 30 - June 2, 1998  
J. Stachel, Meson Production from Nuclear Fireballs at AGS and SPS Energies (invited talk)
62. International Nuclear Physics Conference, Paris, August 24-28, 1998  
J. Stachel, Towards the Quark-Gluon Plasma (invited talk).
63. CERN Summer School, St. Andrews, August 24 - September 4, 1998  
J. Stachel, Heavy Ion Collisions (invited lecture).
64. 20th International School of Nuclear Physics, Erice, September 17-25, 1998  
J. Stachel, Particle Production and Dynamical Evolution in Ultra-Relativistic Nuclear Collisions (invited talk).
65. RHIC Winter Workshop at LBNL – Prospects for Year One Physics at RHIC, Berkeley, January 7-9, 1999  
J. Stachel, Freeze-out and expansion dynamics in AGS and SPS heavy ion collisions (invited talk).
66. ECT Trento, Workshop on Dilepton production and properties of vector mesons in hot and dense matter, Trento, March 15-26, 1999  
J. Stachel, Perspectives for the CERES experiment.
67. DPG Frühjahrstagung Teilchenphysik, Heidelberg, April 15-19, 1999  
J. Stachel, Towards the Quark-Gluon Plasma (invited talk).
68. DPG Frühjahrstagung Physik der Kerne und Hadronen, Freiburg, April 22-26, 1999  
J. Stachel, Towards the Quark-Gluon Plasma (invited talk).
69. Workshop on Relativistic heavy ion collisions and quark matter physics, Wuhan, China, April 5-8, 1999  
J. Stachel, Experimental results from AGS and SPS (invited talk).
70. Quarkmatter '99, Torino, Italy, May 10-15, 1999  
J. Stachel, Predictions for hadron yields at RHIC from a thermal model.
71. QCD and Multiparticle Production, XXIX International Symposium on Multiparticle Dynamics, Providence, Rhode Island, USA, August 9-13, 1999  
J. Stachel, Minireview of heavy ion physics and future prospects (a summary talk).

72. Workshop on flow and strangeness production in heavy ion collisions from relativistic to ultra-relativistic energies, Obernai, France, September 27-28, 1999  
J. Stachel, Particle production and collective flow: experimental overview of AGS and SPS.
73. Workshop on hadrons in dense matter, Institute for Nuclear Theory, University of Washington, Seattle, March-June 2000  
J. Stachel, CERES results on lepton pairs and chiral restoration.
74. CERN/GANIL Theory Workshop "Dynamics and Thermodynamics of Heavy Ion Collisions, April 12-13, 2000  
J. Stachel, Experimental Evidence for the creation of quark matter.
75. Seventh International Conference on Nucleus-Nucleus Collisions, July 3-7, 2000, Strasbourg, France  
J. Stachel, An investigation of thermal charm production in nuclear collisions at SPS energies.
76. Workshop on QCD in a Nuclear Environment, August 3-5, 2000, Regensburg, Germany  
J. Stachel, Measurement of charmonia in PbPb collisions at LHC energy.
77. 5th Nordic Summer School Nuclear Physics, Hilleroed, Denmark, 14-25 August 2000  
J. Stachel, Ultrarelativistic Collisions, 4 lectures.
78. XXIX International Meeting on Fundamental Physics, February 5-9, 2001, Sitges, Spain  
J. Stachel, The little bang in the laboratory: studying the quark-gluon plasma via high energy heavy ion collisions
79. North West Europe Nuclear Physics Conference, April 17-20, 2001, Bergen, Norway  
J. Stachel, The quark-gluon plasma (invited talk).
80. Workshop on Thermalization in Heavy Ion Collisions, June 11-15, 2001, Institute for Nuclear Theory, Trento, Italy  
J. Stachel, Strangeness and Charm production at AGS and SPS energies.
81. Workshop on Thermalization and Chemical Equilibration in Heavy Ion Collisions at RHIC, July 20-21, 2001, Brookhaven National Lab., USA  
J. Stachel, Hadronization and strangeness production in heavy ion collisions from AGS to SPS to collider energies.
82. Workshop on High Level Triggers in ALICE, CERN, July 2001  
J. Stachel, leptonic charm and beauty physics and trigger prospects.
83. International Workshop on the Physics of the Quark-Gluon Plasma, September 4-7, Palaiseau, France  
J. Stachel, Hadronization and strangeness production in heavy ion collisions from AGS to SPS to collider energies.
84. Fourth International Conference on Physics and Astrophysics of the Quark-Gluon Plasma, Nov. 26-30, 2001, Jaipur, India  
J. Stachel, Thermal Models of Particle Production.

85. Cracow Epiphany Conference on Quarks and Gluons in Extreme Conditions, Jan. 3-6, 2002, Cracow, Poland  
J. Stachel, New Results from the CERES/NA45 Experiment.
86. International Workshop XXX on Gross Properties of Nuclei and Nuclear Excitations, Jans. 13-19, 2002, Hirschegg  
J. Stachel, the QCD Phase Transition and Observables from SPS to LHC.
87. 5th Moscow International ITEP School of Physics, Feb. 20-28, 2002, Otradnoje, Russia  
J. Stachel, Heavy Ion Physics.
88. Status-Seminar 'Hadronen- und Kernphysik, 8.3.2002, Köln  
J. Stachel, Eigenschaften der Kernmaterie unter extremen Bedingungen hoher Temperaturen und Dichten.
89. 2002 Gordon Conference on Nuclear Chemistry: Nuclear Reactions, June 16-21, 2002, New London, USA  
J. Stachel, B. Erazmus, R. Lacey, Is there evidence for the formation of the QGP?
90. ECT Training Program on Hot and Dense QCD, July 29 - August 2, 2002, Trento, Italy  
J. Stachel, Ultra-relativistic Heavy Ion Experiments: Soft Probes.
91. EPS12, General Conference, Trends in Physics, August 26-30, 2002, Budapest, Hungary  
J. Stachel, Deconfined nuclear matter, what have we learnt from the SPS?
92. International Workshop "Strong and Electroweak Matter 2002" October 2-5, 2002, Heidelberg, Germany  
J. Stachel, Minibang in the laboratory: Heavy ion collisions at the SPS and outlook for LHC.
93. ITP-RCNP Workshop Chiral Restoration in Nuclear Medium, Oct. 7-9, 2002, Kyoto, Japan  
J. Stachel, CERES results: Vector-mesons in heavy-ion Collisions.
94. NS/RIKEN Joint International Workshop Physics of QCD Many Body Systems, November 5-6, 2002, Tokyo, Japan  
J. Stachel, Physics with the ALICE Transition Radiation Detector.
95. XXXXIX Karpacz Winter School of Theoretical Physics 'Foundatons of Quark-Gluon Plasma', Ladek Zdroj, Poland, February 2-12, 2003  
J. Stachel, Thermal Hadron Production and Statistical Charmed Hadron production (3 invited lectures).
96. 7th International Conference on Strangeness in Quark Matter, Atlantic Beach, NC, USA, March 12-17, 2003  
J. Stachel, Thermal models - conventional view (invited talk).
97. "The First Three Years of Heavy Ion Physics at RHIC", Workshop at the Institute for Nuclear Theory, Seattle, April 2003  
J. Stachel, Hadron yields and statistical model.



98. Fourth International Conference on Perspectives in Hadronic Physics, Trieste, Italy, May 12-16, 2003  
J. Stachel, Quark-gluon plasma: facts and facets (invited opening lecture).
99. 25th Int. School of Nuclear Physics, Erice, Italy, Sept. 16-24, 2003  
J. Stachel, Particle production at SPS energies (invited talk).
100. International Workshop "Tracing Deconfinement in Nucleus-Nucleus Collisions", ECT Trento, Italy, April 24-29, 2004  
J. Stachel, Chemical freeze-out and the QCD phase transition.
101. International Symposium "the QCD phase diagramme: from theory to experiment", Skopelos, Greece, May 29 - June 2, 2004  
J. Stachel, Equilibration near the phase boundary.
102. EPS Conference on Nuclear Physics, Prague, Czech Republic, August 23-27, 2004  
J. Stachel, Dilepton Measurements in High Energy Heavy Ion Collisions (invited talk)
103. Deutsche Physikerinnentagung, Aachen, November 4-5, 2004  
J. Stachel, The Little Bang in the Laboratory (invite talk)
104. Hirchegg 2005, Jan. 17-21, 2005
105. ICPAQGP 2005, Kolkata, India, Feb. 8-12, 2005  
J. Stachel, Experimental Summary Talk.
106. Trento, Italy, June 2-8, 2005. J. Stachel, New Results on Dileptons from CERES (invited talk).
107. Lepton-Photon, Uppsala, Sweden, July 1-6, 2005  
J. Stachel, Has the Quark-Gluon Plasma been seen? (invited plenary talk)
108. EPS Einstein, Bern, Switzerland, July 11-15, 2005  
J. Stachel, Quark-Gluon Plasma Physics (invited plenary talk).
109. 3rd Internatinal Workshop on TRD's for the 3rd Millenium, Ostuni, Italy, September 7-10, 2005  
J. Stachel, Detector and Physics Performance of the ALICE TRD (invited talk).
110. TRD workshop Cheile Gradistei, Romania, September 25-28, 2005  
J. Stachel, The ALICE Transition Radiation Detector TRD.
111. International Symposium on Heavy Ion Physics, Frankfurt, Germany, April 3-6, 2006  
J. Stachel, Di-Lepton Production from SPS to ALICE (invited talk).
112. Int. Workshop Frontiers in QCD, DESY Sept. 20-23, 2006  
J. Stachel, Studying the Quark-Gluon Plasma in the Laboratory (invited talk).
113. Workshop on High Energy Heavy Ion Physics, Seoul, Korea, September 29-30, 2006  
J. Stachel, Exploring the QGP at LHC with Hard Probes.
114. SPSC workshop on results of the CERN SPS fixed target heavy ion program, CERN, Switzerland, October 3,2006  
J. Stachel, Results from CERES/NA45.

115. Int. Workshop High Energy Physics in the LHC ERA, Valparaiso, Chile Dec. 11-15, 2006  
J. Stachel, Exploring the QGP at LHC with Hard Probes in ALICE (invited talk).
116. 3rd ALICE physics week, Münster, Germany, February 12-16, 2007  
J. Stachel, Transition from  $J/\psi$  suppression to enhancement as a proof of deconfinement.
117. Int. Conf. on Nuclear Physics in Astrophysics III, Dresden, Germany, March 26-31, 2007  
J. Stachel, Ultra-relativistic heavy ion collisions - probing the Big Bang on the microsecond scale (invited talk).
118. 31st International Johns Hopkins Workshop, Heidelberg, Germany, August 2-4, 2007  
J. Stachel, Challenges for Heavy Ion Physics at the LHC (invited talk).
119. Heavy Ion Physics Perspectives, VISIM workshop, Bad Liebenzell, Germany, Sept. 12-14, 2007  
J. Stachel, Hard probes to diagnose the QGP at the LHC (invited talk).
120. Meeting of the Polish Academy of Science, Breslau, Poland, October 12, 2007  
J. Stachel, Relativistic Nuclear Collisions - a Quark Matter Factory (invited talk).
121. Int. Symposium on Modern Trends in Nuclear Physics, GSI, Germany, October 18-20, 2007  
J. Stachel, Exploring the QGP with ALICE at the LHC (invited talk).
122. Jahrestagung Komitee für Hadronen und Kerne, GSI, Germany, October 25-26, 2007  
J. Stachel, Exploring the QGP with ALICE at the LHC.
123. 46th Wilhelm und Else Heraeus Seminar 'Physics on the Terascale', Bad Honnef, April 29, 2008  
J. Stachel, Exploring the Quark-Gluon Plasma with ALICE at the LHC (invited talk).
124. Int. Workshop on 'the statistical model of hadron formation and the nature of the qCD hadronization process, ECT\* Trento, Italy, Sept. 1-5, 2008  
J. Stachel, Collisional Equilibration in AA collisions near the QCD phase boundary (invited talk).
125. Int. School of Nuclear Physcs, 30th course 'Heavy Ion Collisions from the Coulomb Barrier to the Quark-Gluon Plasma', Erice, Italy, September 17-24, 2008  
J. Stachel, Exploring the Quark-Gluon Plasma with ALICE at the LHC (invited talk).
126. Int. EMMI Workshop 'Quark-Gluon Plasma meets Cold Atoms', GSI Darmstadt, September 25-27, 2008  
J. Stachel, Diagnosing the Quark-Gluon Plasma with experiments at RHIC and LHC (invited talk).
127. Int. Workshop 'Jean Zinn-Justin ou les 2 infinis, Journee Jean Zinn-Justin, Saclay, France, September 29, 2008 J. Stachel, ALICE on the eve of first collisions (invited talk).

128. Int. Workshop 'Extra-Strong Quark-Gluon Plasma', Stony Brook, USA, October 2-4, 2008  
J. Stachel, Probing the Quark-Gluon Plasma with hard probes at the LHC (invited talk).
129. Int. Conference 'the Legacy of Edoardo Amaldi in Science and Society', Rome, Italy, October 23-25, 2008  
J. Stachel, High Energy Heavy Ion Collisions (invited talk).
130. 48th RNM meeting, GSI Darmstadt, February 12, 2009  
J. Stachel, Thermal particle production: the horn revisited.
131. Int. EMMI Workshop 'Phase Transitions', Münster, February 18-20, 2009  
J. Stachel, Thermal particle production: the horn revisited.
132. Quantum Field Theory in Extreme Environments : an international workshop and symposium to celebrate the 60th birthdays of Jean-Paul Blaizot and Larry McLerran, CEA Saclay, April 23-25, 2009  
J. Stachel, Probing the Quark-Gluon Plasma with hard probes at the LHC (invited talk).
133. Heavy Ion Forum, CERN, June 29, 2009  
J. Stachel, the Horn and the Unreasonable Success of the Thermal Model.
134. CATHIE-INT mini-program: Quarkonium in a Hot Medium - from QCD to Experiment, Seattle, June 16-20, 2009,  
J. Stachel, Production of Charmed Hadrons by Statistical Hadronization of a Quark-Gluon Plasma (invited talk).
135. 15th International Symposium on Particles, Strings, and Cosmology, PASCOS 2009, DESY, Hamburg, July 7-10, 2009  
J. Stachel, High Energy Heavy Ion Collisions from RHIC to ALICE (invited talk).
136. EMMI Workshop Wroclaw and XXVI Max-Born Symposium: Three Days of Strong Interactions, July 9-11, 2009  
J. Stachel, the Horn and the Unreasonable Success of the Thermal Model (invited talk).
137. EMMI Workshop 'Quarks, Hadrons and the Phase Diagram of QCD', St. Goar, August 31 - September 2, 2009  
J. Stachel, Information on the Phase Boundary from Hadron Yields or the Unreasonable Success of the Thermal Model (invited talk).
138. Int. Conference Strangeness in Quarkmatter 2009, Buzios, Brazil, September 28 - October 2, 2009  
J. Stachel, Information on the Phase Boundary from Hadron Yields or the Unreasonable Success of the Thermal Model (invited talk).
139. 30th International Workshop on Physics of High Energy Density in Matter, Hirschegg, January 18-22, 2010  
J. Stachel, Hadron yields and the QCD phase diagram (invited talk).

140. Workshop on Dense Nuclear Matter 2010, Stellenbosch, South Africa, April 6-9, 2010  
J. Stachel, Exotica at the Phase boundary - from Meson to Antihypernucleus Production in Central AA Collisions (invited talk).
141. EMMI Workshop Quarkonium and Deconfined Matter in the LHC Era, Martina Franca, Italy, June 16-18, 2010  
J. Stachel, quarkonium in the ALICE central barrel (invited talk).
142. International Nuclear Physics Conference, Vancouver, Canada, July 5-9, 2010  
J. Stachel, Strangeness Measurements with ALICE at the LHC.
143. Workshop on Dense Nuclear Matter 2010, ECT\* Trento, Italy, July 19-23, 2010  
J. Stachel, Exotica at the Phase boundary - from Meson to Antihypernucleus Production in Central AA Collisions (invited talk).
144. Int. Symposium Challenges in Nuclear Physics, Darmstadt, Oct. 14-15, 2010  
J. Stachel, First Physics Results from ALICE at the LHC (invited talk).
145. Int. EMMI Workshop on Strongly Coupled Systems, GSI Darmstadt, Nov. 15-17, 2010  
J. Stachel, First Physics Results from ALICE at the LHC (invited talk).
146. Crakow Warsaw Workshop on LHC Physics, Feb. 25, 2011  
J. Stachel, First ALICE physics results for PbPb collisions at the LHC.
147. Quarkonia in Deconfined Matter, Acitrezza, Italy, Sept. 28-30, 2011  
J. Stachel, Open heavy flavor production in ALICE and its connection to quarkonium production.
148. 8th Int. Workshop on Quarkonium, GSI, Germany, Oct. 6, 2011  
J. Stachel, Charmonium Production via Statistical Hadronization.
149. Int. School for High Energy Nuclear Collisions, Wuhan, China, Oct. 31, 2011  
J. Stachel, J/psi and Quarkonium as Probes of Deconfinement.
150. 28. Arbeitstreffen Kernphysik, Schleching, Feb. 16-23, 2012  
J. Stachel, J/psi and Quarkonia as Probes of Deconfinement at LHC.
151. Symposium 'Symmetries and Phases in the Universe', Kloster Irsee, Feb. 28, 2012  
J. Stachel, Investigating the Quark-Gluon Plasma at the LHC - First Results from ALICE.
152. EMMI Workshop on Relaxation, Turbulence, and Non-Equilibrium Dynamics of Matter Fields, Heidelberg, June 21-24, 2012  
J. Stachel, First Results from ALICE on PbPb collisions at the LHC.
153. 36th International Conference for High Energy Physics, Melbourne, Australia, July 4-11, 2012  
J. Stachel, Recent Results from Heavy Ion Collisions at the LHC (invited talk).
154. EMMI Workshop Quark Gluon Plasma Meets Cold Atoms - Episode 3, Hirschegg, Austria, August 26-31, 2012  
J. Stachel, heavy quarks in a quark-gluon plasma at the LHC.

155. 34th International School of Nuclear Physics, probing the extremes of matter with heavy ions, Erice, Italy, September 17, 2012  
J. Stachel, heavy quarks in a quark-gluon plasma at the LHC (invited talk).
156. LHC days in Split, Split, Croatia, Oct. 1-6, 2012  
J. Stachel, recent results of ALICE: heavy quarks in a quark-gluon plasma at the LHC.
157. Fall meeting of the Division of Nuclear Physics of the American Physical Society, Newport Beach, USA, October 24-27, 2012  
J. Stachel, recent results from heavy ion collisions at the LHC (invited talk).
158. EMMI Workshop Prospects and Challenges for Future Experiments in Heavy Ion Collisions, GSI, February 15, 2013  
J. Stachel, future of heavy ion collisions at the LHC.
159.  $J/\psi$  to  $ee$  workshop, Tübingen, May 28, 2013  
J. Stachel, Charmonia as probes of deconfinement: statistical hadronization vs. transport.
160. Strangeness in Quark Matter 2013  
J. Stachel, Confronting LHC data with the statistical hadronization model (invited talk).
161. 9th Conference on relativistic aspects of nuclear physics, Rio de Janeiro, Brazil, September 23-27, 2013  
J. Stachel, Charmonium production as probe of deconfinement - putting LHC results into perspective (invited talk).
162. 45 years of nuclear physics at Stony Brook: a tribute to Gerald E. Brown, Stony Brook, USA, November 24-27, 2013  
J. Stachel, Charmonium and the quark-gluon plasma at the LHC.
163. Sapore Gravis Days, Nantes, France, December 2-5, 2013  
J. Stachel, Charmonia as probes of deconfinement: statistical hadronization vs transport.
164. Workshop on 'Progress in Nuclear and Hadron Physics and Accelerator Related Sciences, Tsukuba, Japan, July 16, 2014  
J. Stachel, Quarkonia as probe of deconfinement in high energy nuclear collisions (invited talk).
165. Workshop 'Heavy Ion Cafe', U. Tokyo, Japan, July 19, 2014  
J. Stachel, Particle production in nuclear collisions and the QCD phase diagram.
166. 3rd International Conference on New Frontiers in Physics, Kolymbari, Greece, August 5, 2014  
J. Stachel, Selected prospects in relativistic nuclear collisions at LHC (invited talk).
167. ECT\* Workshop on QCD Hadronization and Statistical Model, Trento, Italy, October 6-10, 2014  
J. Stachel, quarkonium production in nuclear collisions from deconfined quarks.

168. 11th ICFA Seminar on Future Perspective in High-Energy Physics, Beijing, China, Oct 28, 2014  
J. Stachel, Quark-Gluon Plasma: from RHIC to LHC energies (invited talk).
169. Flow and heavy flavor in high energy heavy ion collisions: GRN workshop Inha University, South Korea, February 24-26, 2015  
J. Stachel, quarkonium production in nuclear collisions from deconfined quarks.
170. DPG Frühjahrstagung, Heidelberg, Germany, March 24, 2015  
J. Stachel, Exploring the QCD Phase Diagram at the LHC (invited plenary talk).
171. 12th International Conference on Nucleus-Nucleus Collisions, Catania, Italy, June 21-16, 2015  
J. Stachel, Studying the Quark-Gluon Plasma in Nuclear Collisions at the LHC (invited talk).
172. Workshop on QCD Thermodynamics in High-Energy Collisions, Central China Normal University, China, July 27-31, 2015  
J. Stachel, Heavy quarks in a QuarkGluon Plasma at the LHC.
173. International Workshop 'Selected topics on heavy flavor production in highenergy collisions' Tsinghua University, Beijing, China, September 24-25, 2015  
J. Stachel, Charmonia probes for deconfined charm quarks in relativistic nuclear collisions.
174. 11th International Workshop on High pT Physics in the RHIC and LHC Era, Brookhaven National Laboratory, USA, April 12-15, 2016  
J. Stachel, Quarkonia at LHC - probes for deconfined heavy quarks in relativistic nuclear collisions
175. Conference on Critical Point and Onset of Deconfinement CPOD 2016, Wroclaw, Poland, May 30 - June 4, 2016  
J. Stachel, Quarkonium production at the phase boundary - a signal of deconfinement (invited talk).
176. International Workshop 'QCD Thermodynamics - pressure and passion', Schloss Waldthausen, Germany, August 24-26, 2016  
J. Stachel, Statistical Hardonization at the Phase Boundary
177. XIIth Conference on Confinement and the Hadron Spectrum Thessaloniki, Greece, September 2, 2016  
J. Stachel, Probing the QuarkGluon Plasma at the LHC with heavy flavor observables (invited talk).
178. International Workshop 'Hadron Production and Fluctuations in High Energy Nuclear Collisions', Central China Normal University, Wuhan, October 18-21, 2016  
J. Stachel, Production of lightquark hadrons in heavy ion collisions  
J. Stachel, Production of heavy flavor hadrons  
J. Stachel, Future Heavy Ion Physics Program at the LHC
179. 55th Int. Winterworkshop on Nuclear Physics Bormio, Italy, January 24, 2017  
J. Stachel, Recent Results from ALICE on heavy flavor probes of the QuarkGluon Plasma (invited talk).

180. EPS Conference on High Energy Physics, Venice, Italy, July 2, 2017  
J. Stachel, 30 Years of Quark-Gluon Plasma Studies (invited plenary talk).
181. 21. Particles and Nuclei International Conference, Beijing, China, September 1-5, 2017  
J. Stachel, 30 Years of Quark-Gluon Plasma Studies - Lessons and Perspectives (invited plenary talk).
182. 21. Deutsche Physikerinnentagung, Ilmenau, September 29 - October 1, 2017  
J. Stachel, Urknallmaterie im Labor - ALICE am LHC (invited opening lecture).
183. EMMI Workshop Critical Fluctuations Near the QCD Phase Boundary in Relativistic Nuclear Collisions, CCNU Wuhan, China, October 12, 2017  
J. Stachel, Heavy Quarks and the QCD Phase Boundary.
184. Physics@Veldhoven, January 22-24, 2018  
J. Stachel, Studying big bang matter in high energy nuclear collisions at the LHC (invited plenary talk).
185. EMMI Workshop Constraining the Phase Boundary with Data from Heavy Ion Collisions, GSI Darmstadt, February 12-14, 2018  
J. Stachel, Probing deconfinement with heavy quarks.
186. 678th Wilhelm and Else Heraeus Seminar '100 Years of Gauge Theories', Bad Honnef, July 30 - August 3, 2018  
J. Stachel, Experimental tests of gauge theories: the QCD phase diagram at high temperature.
187. 679th Wilhelm und Else Heraeus Seminar 'Quantum Chromodynamics and Its Symmetries', Oberwoelz, Austria, September 9-15, 2018  
J. Stachel, Quarkonium production at the phase boundary - a signal of deconfinement.
188. Int. Workshop on Heavy Flavor Production in High Energy Collisions and Fourty Years of Quark-Gluon Plasma, Wuhan, China, October 8-11, 2018  
J. Stachel, Quarkonia as probes of deconfinement.
189. Int. Workshop 'Observables of Hadronization and the QCD Phase Diagram in the Cross Over Region, ECT\* Trento, Italy, October 15-19, 2018  
J. Stachel, Quarkonia as Probes of Deconfinement
190. '2018 High Energy Physics' Pre-SAC Symposium, Weizmann Institute of Science, October 28, 2018  
J. Stachel, Experimental test of gauge theories: the QCD phase diagram at high temperature
191. EMMI Physics Day, GSI Darmstadt, November 20, 2018  
J. Stachel, Decoding the phase structure of QCD via particle production at high energy
192. DPG Frühjahrstagung, München March 17-22, 2019  
J. Stachel, Charmonia as probes of deconfinement - recent LHC results and perspectives (plenary talk)

193. ALICE Charmonia Workshop, University of Bergen, Norway, April 3-5, 2019  
Perspectives for Charmonia Measurements at the LHC
194. CERN Council Open Symposium on the Update of European Strategy for Particle Physics, Granada, Spain, May 13-16, 2019  
J. Stachel, Heavy Ion Physics using High Energy Beams
195. 18th International Conference on Strangeness in Quark Matter, Bari, Italy, June 10-15, 2019  
J. Stachel, Heavy Ion Physics using High Energy Beams (invited plenary talk)
196. ALICE Workshop in Event-by-event Fluctuations, CERN, September 15, 2020  
J. Stachel, Measurement of charge fluctuations at the LHC (invited opening talk)
197. ECT\* Workshop on Heavy Flavor Transport in QCD Matter, Trento, April 26-30, 2021  
J. Stachel, Charm, open charm states, exotica and deconfinement - new developments of the framework of the SHMc
198. 42nd International School of Nuclear Physics QCD under extreme conditions – from heavy ion, Erice, Italy, Sept. 16-22, 2021  
J. Stachel, Heavy flavor hadrons as probes of deconfinement at the LHC collisions to the phase diagram (invited lecture)
199. International Symposium From Particles to the Universe, 50 years IN2P3, Paris, France, December 10, 2021  
J. Stachel, Exploring the Phase Diagram of Strongly Interacting Matter
200. 29th International Conference on Ultrarelativistic Nucleus-Nucleus Collisions, Quark-matter 2022, Krakow, Poland, April 4-11, 2022  
J. Stachel, Deciphering deconfinement and hadronization: achievements and opportunities (invited talk)
201. 9th International Conference on Quarks and Nuclear Physics, QNP2022, Florida State University, Tallahassee, USA, September 5-9, 2022  
J. Stachel, Exploring the Phase Diagram of Strongly Interacting Matter (invited opening lecture)
202. online conference Women of the World in Physics, November 9-11, 2022  
J. Stachel, Exploring the Phase Diagram of Strongly Interacting Matter with Collisions of Heavy Nuclei at the LHC (invited lecture)
203. EMMI Rapid Reaction Task Force (RRTF) - Part 2, GSI Darmstadt, December 12-16, 2022  
J. Stachel, Suppression and (re)generation of quarkonium in heavy-ion collisions at the LHC
204. 786th Wilhelm und Else Heraeus Seminar 'the QCD phase transition', Bad Honnef, Germany, April 3-5, 2023  
J. Stachel, Experimental test of quark deconfinement - hadrons with charm quarks
205. Discoveries at Hadron Colliders, Symposium in honor of Thomas Müller's 70th birthday, KIT Karlsruhe, Germany, June 9, 2023  
J. Stachel, Exploring the quark gluon plasma



206. Experimental test of quark deconfinement with charmonia at the LHC, Workshop QCD Matter: Status and Future Direction, IMP Lanzhou, China, September 19-20, 2023
207. EMMI Workshop and International Workshop on Gross Properties of Nuclei and Nuclear Excitations: 'strong interaction physics of heavy flavor', Hirschegg, Austria, January 14-20, 2024  
J. Stachel, Charmonia as probe of deconfinement
208. EMMI Rapid Reaction Task Force (RRTF)- Understanding light (anti-)nuclei production at RHIC and LHC, GSI, Germany, April 8-12, 2024  
J. Stachel, SHMc - charm statistical hadronization

## Colloquia and Seminars

1. Kernfysisch Versneller Instituut, Groningen, 10.11.81  
The onset of deformation in the mass region around  $A=100$
2. GSI, Darmstadt, 17.12.81  
Form und Struktur von neutronenreichen Kernen im Massenbereich  $A \approx 100$
3. TU and LMU, München, 14.5.82  
Triaxialität um  $A=100$  - Was sagen uns elektromagnetische Momente über die Kerngestalt?
4. TH, Darmstadt, 28.10.82  
Information über die Kernform aus elektromagnetischen Momenten
5. HMI, Berlin, 6.12.82  
Triaxiale Kerndeformation im Massenbereich  $A=100$
6. Universität Göttingen, 17.12.82  
Kernstruktur des Übergangskerns  $^{104}\text{Ru}$
7. SUNY at Stony Brook, 26.4.83  
Nuclear shape and structure around  $A=100$
8. Yale University, 2.5.83  
Nuclear shape and structure around  $A=100$
9. Brookhaven National Laboratory, 17.5.83  
Nuclear shape and structure around  $A=100$
10. Lawrence Berkeley Laboratory, 11.10.83  
Nuclear structure around  $A=100$
11. Technion, Haifa, 16.1.84  
Collectivity in subthreshold pion production
12. Weizman Institute of Science, Rehovot, 20.1.84  
Collectivity in subthreshold pion production

13. Princeton University, 2/29/84  
Collective structure around  $A=100$
14. Rutgers University, 2/19/84  
Collectivity in subthreshold pion production
15. Osaka University, 8/22/84  
Cooperative effects in subthreshold pion production
16. CEN Saclay, 1/11/85  
Pion production in heavy ion reactions close to absolute thresholds
17. SUNY Stony Brook, 1/23/85  
Pion production - a probe for coherence in heavy ion collisions
18. NSCL Michigan State University, 2/6/85  
Coherence in medium energy heavy ion collisions
19. Argonne National Laboratory, 2/18/85  
Pion production as a probe for coherence in heavy ion collisions
20. Brookhaven National Laboratory, 5/14/85  
Pion production as a probe for coherence in heavy ion collisions
21. MIT Boston, 10/22/85  
Pion and photon production in low energy heavy ion collisions
22. Brookhaven National Laboratory, Chemistry Dept. Colloquium, 12/18/85  
Pion and photon production - a probe for coherence in medium energy heavy ion collisions
23. SUNY Stony Brook, 3/4/86  
High energy photons from intermediate energy nucleus-nucleus collisions
24. University of Pennsylvania, 3/27/86  
Photon and Pion production in intermediate energy heavy ion collisions
25. University Giessen, Germany, 1/27/87  
The Brookhaven relativistic heavy ion program
26. Max-Planck Institut für Kernphysik, Heidelberg, Germany, 1/28/87  
The Brookhaven relativistic heavy ion program
27. GSI Darmstadt, Germany, 1/29/87  
Experiment 814 at the Brookhaven AGS
28. Oak Ridge National Lab., 4/16/87  
Study of central and extremely peripheral collisions in relativistic heavy ion collisions
29. GANIL, France, 7/12/88  
The Brookhaven Relativistic Heavy Ion Program
30. GSI Darmstadt, Germany, 4/18/89  
Recent Results from BNL Relativistic Heavy Ion Experiment E814.
31. University of Arizona, Tucson, Colloquium, 11/1/89  
Search for the Quark-Gluon Plasma at Brookhaven National Laboratory

32. University of Arizona, Tucson, 11/2/89  
Recent results from experiment 814
33. Kent State University, Acron, Colloquium, 10/17/91  
The Little Bang: Hot, Dense Matter via Relativistic Nuclear Collisions
34. TUNL, Durham, 11/7/91  
Hot and Dense Nuclear Matter from Relativistic Heavy Ion Collisions
35. Program Initiation Group for Nuclear and High Energy Physics, NRC, Washington, 11/17/91  
Review: Nuclear Physics since the Brinkman Report.
36. SUNY Stony Brook, Nuclear Theory Seminar, 12/5/91  
Baryon Distributions from 14.6 GeV/nucleon Heavy Ion Collisions.
37. Inst. f. Theoretische Physik, Universität Frankfurt, Colloquium, 12/13/91  
Recent Results from Brookhaven AGS Experiment 814.
38. SUNY Stony Brook, Colloquium, 4/7/92  
Relativistic Heavy Ion Physics at the AGS: Results and Future Perspectives
39. Rutgers University, Colloquium, 4/15/92  
Relativistic Heavy Ion Physics at the AGS: Results and Future Perspectives
40. Caltech, Nuclear Physics Seminar, 6/5/92  
Recent Results from the Brookhaven Relativistic Heavy Ion Program.
41. Brown University, Colloquium, 10/23/92  
The Mini-Bang: Creating Hot and Dense Matter in Ultra-Relativistic Nuclear Collisions.
42. SUNY Binghamton, Colloquium, 11/16/92  
Recreating the Big Bang in the Laboratory - Ultra-Relativistic Heavy Ion Collisions.
43. University Freiburg, Germany, Colloquium, 2/1/93  
Erzeugung von heißer und dichter hadronischer Materie in ultrarelativistischen Kern-Kern Stößen.
44. LAMPF, Colloquium, 6/9/93  
The Little Bang: Hot and Dense Matter via Relativistic Nuclear Collisions.
45. Kernforschungsanlage Jülich, Germany, Colloquium, 6/16/93  
Erzeugung von heißer und dichter hadronischer Materie in ultrarelativistischen Kern-Kern Stößen.
46. NSF/DOE Summer School on Nuclear Physics Research, North Carolina State University, Raleigh, July 1993  
J. Stachel, Relativistic Nuclear Collisions.
47. University Heidelberg, Germany, Colloquium, 12/17/93  
Erzeugung von heißer und dichter hadronischer Materie im ultrarelativistischen Schwerionenstoß

48. University Mainz, Germany, Colloquium, 12/21/93  
Erzeugung von heißer und dichter hadronischer Materie im ultrarelativistischen Scherionenstoß
49. University of Minnesota, Minneapolis, Nuclear and High Energy Physics Seminar, 2/16/94  
Ultra-relativistic Heavy Ion Collisions - Results from the AGS Fixed Target Program and Prospects for RHIC.
50. Argonne National Laboratory, Physics Dept. Colloquium, 2/18/94  
The Little Bang: Creating Hot and Dense Hadronic Matter in the Laboratory.
51. University Heidelberg, Germany, Seminar, 6/24/94  
Erste Ergebnisse von Ultrarelativistischen Kollisionen der Schwersten Kerne.
52. University of Rochester, Nucl. Physics Seminar, 12/8/94  
Information about nuclear fireballs created in ultra-relativistic nucleus-nucleus collisions from hadron distributions.
53. Michigan State University, Phys. Dept. Colloquium, 2/7/95  
The Little Bang: Nuclear Fireballs Created in Ultra-Relativistic Heavy Ion Collisions.
54. Ohio State University, Nucl. Physics Seminar, 5/8/95  
Matter at Extreme Density and High Temperature Created in High Energy Heavy Ion Collisions.
55. SUNY Stony Brook, Joint BNL - Columbia U. - Stony Brook U. Nuclear Theory Seminar, 12/15/95  
Equilibration in Ultrarelativistic Nuclear Collisions.
56. Inst. für Theoretische Physik, Universität Heidelberg, Seminar, 1/29/96  
Hadron Production in Ultra-Relativistic Nuclear Collisions.
57. Subatech Nantes, Seminar, 4/11/1996  
Testing Equilibration in Ultra-Relativistic Heavy Ion Collisions.
58. Physikalisches Kolloquium der Universität Dortmund, 1/7/1997  
Relativistische Schwerionenkollisionen und der Phasenübergang zu Quarkmaterie.
59. Physikalisches Kolloquium der Universität Giessen, 1/20/1997  
Relativistische Schwerionenkollisionen und der Phasenübergang zu Quarkmaterie.
60. Physikalisches Kolloquium der Universität Frankfurt, 1/29/1997  
Relativistische Schwerionenkollisionen und der Phasenübergang zu Quarkmaterie.
61. Gemeinsames Kolloquium Forschungszentrum Karlsruhe und Universität Karlsruhe, 2/4/1997
62. Palaver Physikalisches Institut der Universität Heidelberg, 2/10/1997  
Perspektiven in relativistischer Schwerionenphysik.
63. Seminar DESY, Hamburg, 2/18/1997  
Ultrarelativistic Heavy Ion Collisions and the QCD Phase Transition.

64. Kolloquium Universität Augsburg, 2/24/1997  
Relativistische Schwerionenkollisionen und der Phasenübergang zu Quarkmaterie.
65. CERN Heavy Ion Colloquium, 5/26/1997  
Tests for Equilibration in High Energy Heavy Ion Collisions.
66. Kolloquium der Universität Stuttgart, 6/10/1997  
Kollisionen ultra-relativistischer Schwerionen und der QCD Phasenuebergang zum Quark-Gluon-Plasma
67. Physikalisches Kolloquium der Universität Heidelberg, 7/4/1997  
Kollisionen relativistischer Schwerionen und der Quark-Hadron Phasenübergang
68. Physikalisches Kolloquium der Universität Basel, 11/21/1997  
Studium des QCD Phasenübergangs in Kollisionen der schwersten Atomkerne
69. Physikalisches Kolloquium der Universität Tübingen, 12/17/1997  
Kollisionen relativistischer Schwerionen und der Quark-Hadron Phasenübergang
70. Physikalisches Kolloquium der Universität Dresden, 1/13/1998  
Kollisionen relativistischer Schwerionen und der Quark-Hadron Phasenübergang
71. Seminar Kernforschungszentrum Rossendorf, 1/14/1998  
Expansion und Fluß in Kollisionen der schwersten Atomkerne bei hohen Energien
72. Kolloquium der Technischen Universität Darmstadt, 1/23/1998  
Kollisionen hochenergetischer Schwerionen und der QCD Phasenübergang
73. Colloquium University of Ghent, 3/5/1998  
Exploring the QCD Phase Transition in High Energy Nuclear Collisions
74. Kolloquium bei GSI, Darmstadt, 6/30/1998  
Physics with Ultra-Relativistic Heavy Ions: Status and Perspective
75. Workshop on High Energy Heavy Ion Collisions at MPI, Heidelberg, 7/2/98  
Physics with Ultra-Relativistic Heavy Ions: Status and Perspective
76. Kolloquium Universität Bonn, 12/4/1998  
Kollisionen hochenergetischer Atomkerne und der QCD Phasenübergang
77. Colloquium NIKHEF Amsterdam, Netherlands, 26/2/1999  
Towards the Quark-Gluon Plasma
78. Kolloquium Universität Göttingen, 5/31/1999  
Towards the Quark-Gluon Plasma
79. Graduiertenkolleg theoretische Kernphysik der Universitäten Regensburg und Erlangen, Regensburg, 6/16/1999  
Die Physik des CERES Experiments
80. Kolloquium Forschungszentrum Jülich, 9/10/1999  
Relativistische Schwerionenkollisionen und der Phasenübergang zu Quarkmaterie
81. CERN Seminar on occasion of press release concerning "New State of Matter", 2/10/2000  
Virtual and real photons radiated by the cooling and hadronizing fireball

82. Kolloquium Universität und ETH Zürich, 4/19/2000  
Mit relativistischen Kern-Kern-Stößen zum Quark-Gluon Plasma
83. Seminar des Graduiertenkolleg Elementarteilchenphysik, Universität Mainz, 6/28/2000  
Dileptons, Chiral Symmetry, and the Quark Gluon Plasma
84. Physikalisches Kolloquium Universität Heidelberg, 7/15/2000  
Mit relativistischen Kern-Kern-Stößen zum Quark-Gluon-Plasma
85. CERN Heavy Ion Forum, 3/14/2001  
Charm and statistical hadronization: analysis of SPS data and outlook for future colliders
86. Physikalisches Kolloquium Universität Köln, 5/15/2001  
Mit relativistischen Kern-Kern-Stößen zum Quark-Gluon-Plasma
87. National Institute for Physics and Nuclear Engineering, Bucharest, Romania, 2/8/2002  
Physics with the ALICE Transition Radiation Detector
88. Festkolloquium, Forschungszentrum Rossendorf, 3/1/2002  
Messung von Leptonenpaaren und die Wiederherstellung der chiralen Symmetrie.
89. Physikalisches Kolloquium der Universität Stuttgart und des Max-Planck Instituts für Metallforschung, 4/23/2002  
Ultra-relativistic nuclear collisions - the Little Bang in the Laboratory.
90. Physikalisches Kolloquium der LMU und TU München, 5/27/2002  
Formation of the Quark-Gluon Plasma in relativistic nuclear collisions.
91. Colloquium KEK, Tsukuba, Japan, 10/10/2002  
New Physics Opportunities with the ALICE.
92. Physics Colloquium University of Tokyo, 10/11/2002  
Minibang in the Laboratory: Heavy Ion Collisions at the SPS and Outlook for LHC.
93. Intern. Graduiertenkolleg, Univ. Giessen, 12/05/2002  
CERES Results: Vector Meson Production and Dynamical Evolution in Heavy Ion Collisions.
94. GSI Kolloquium, 1/27/2004  
Relativistic Nuclear Collisions and the QCD Phase Boundary.
95. Physikalisches Kolloquium, Universität Ulm, 5/10/2004  
Der Urknall im Labor - Kollisionen zwischen  $\gamma$  ultra-relativistischen Atomkernen
96. Physikalisches Kolloquium, Universität Bielefeld, 6/7/2004  
Urknall im Labor und die Phasengrenze zur Quark-Gluon Welt.
97. CERN Summer Student Lectures, July, 2004  
High Energy Heavy Ion Collisions.
98. Bucharest, NIPNE, October 25, 2004  
The Alice TRD
99. Uppsala University, Particle Physics Seminar, December 7, 2004

100. CERN Summer Student Lectures, July 25/26, 2005  
Quark Gluon Plasma Physics.
101. Grad. Kolleg Workshop der Teilchenphysik RWTH Aachen, Bad Honnef, August 22, 2005  
The Quark-Gluon Plasma.
102. Physikalisches Kolloquium, RWTH Aachen, November 28, 2005  
The Little Bang in the Laboratory: Creating the Quark-Gluon Plasma
103. Teilchenphysikalisches Seminar, TU Dresden, July 19, 2007  
Exploring the QGP at LHC with ALICE.
104. ECFA meeting, Berlin, October 5, 2007  
Physics with High Energy Heavy Ions
105. Physikalisches Kolloquium, Universitaet Würzburg, Jan. 28, 2008  
The Little Bang in the Laboratory: Creating the Quark-Gluon Plasma.
106. Eröffnungsvortrag 12. Deutsche Physikerinnentagung und Physikalisches Kolloquium, Universität Münster, November 6, 2008  
The Little Bang in the Laboratory: Creating the Quark-Gluon Plasma.
107. Physikalisches Kolloquium, Johannes Gutenberg Universität Mainz, November 25, 2008  
The Little Bang in the Laboratory: Creating the Quark-Gluon Plasma.
108. Physikalisches Kolloquium, Ruprecht-Karls Universität Heidelberg, January 23, 2009  
The Little Bang in the Laboratory: Creating the Quark-Gluon Plasma.
109. Kolloquium, Max Planck Institut für Radioastronomie, Bonn, February 13, 2009  
The Little Bang in the Laboratory: Creating the Quark-Gluon Plasma.
110. Physikalisches Kolloquium, Universität Dresden, July 12, 2011  
Investigating the Quark-Gluon Plasma at the LHC: First Results from ALICE.
111. Physikalisches Kolloquium, KIT Karlsruhe, October 28, 2011  
Investigating the Quark-Gluon Plasma at the LHC: First Results from ALICE.
112. Physikalisches Kolloquium, Universität Bochum, January 9, 2012  
Investigating the Quark-Gluon Plasma at the LHC: First Results from ALICE.
113. Max-von-Laue Kolloquium, Berlin, May 4, 2012  
das Wunderland von ALICE am LHC: Quantenflüssigkeiten aus Quarks und Gluonen.
114. Colloquium Jefferson National Laboratory, Newport News, USA, August 22, 2012  
Studying the Quark-Gluon Plasma in Nuclear Collisions at the LHC.
115. Physikalisches Kolloquium, Universitaet Wien, Nov. 30, 2012  
the wondrous world of quantum liquids of quarks and gluons - results from ALICE.
116. Festkolloquium GSI, Dec. 19. 2012  
the wonderland of ALICE at the LHC - quantum liquids of quarks and gluons.

117. Physikalisches Kolloquium, Universität Saarbrücken, April 18, 2013  
Die wundersame Welt von Quantenflüssigkeiten aus Quarks und Gluonen: Erste Resultate von ALICE am LHC.
118. Physics Colloquium, Ecole Polytechnique Lausanne, April 29, 2013  
The wondrous world of quantum liquids of quarks and gluons - results from ALICE.
119. Physikalisches Kolloquium, Universität Dortmund, January 7, 2014  
Die wundersame Welt von Quantenflüssigkeiten aus Quarks und Gluonen: Erste Resultate von ALICE am LHC.
120. Particle Physics Seminar, U. Brussels, February 14, 2014  
Exploring the QCD Phase Diagram at the LHC.
121. Seminar on Physics of the Quark-Gluon Plasma, U. Heidelberg, July 6, 2016  
Quarkonia as probes of deconfinement at the LHC - experimental data and phenomenology.
122. Physikalisches Kolloquium, Universität Frankfurt, Nov. 22, 2017  
Studying big bang matter in high energy collisions at the LHC
123. ISOQUANT seminar, Heidelberg, January 28, 2019  
Decoding the phase structure of QCD via particle production at high energy
124. Seminar of the Polish Physical Society, Wroclaw, Poland, April 12, 2019  
Charmonia as probes of deconfinement recent LHC results and perspectives
125. Special Seminar, CCNU Wuhan, China, September 10, 2019  
Charmonia as probes of deconfinement recent LHC results and perspectives
126. Öffentlicher Abendvortrag Magnushaus Berlin, January 25, 2022  
Exploring Big Bang Matter with Collisions of Heavy Nuclei at the LHC
127. Online seminar series RHIC Beam Energy Scan: Theory and Experiment, May 10, 2022  
Experimental constraints on the phase structure of QCD from LHC data
128. ISOQUANT lunch seminar, Heidelberg, January 24, 2023  
Experimental test of quark confinement – hadrons with charm quarks
129. Kolloquium Tsinghua University, Beijing, September 14, 2023  
Experimental test of quark deconfinement - hadrons with charm quarks
130. Kolloquium University of the Chinese Academy of Science, Huairou, September 15, 2023  
Experimental test of quark deconfinement - hadrons with charm quarks
131. Kolloquium GSI Darmstadt, April 30, 2024  
Mapping the properties of the quark-gluon plasma and the QCD phase boundary

## Events for the General Public



1. Reise zum Urknall, Teilchenphysik, Hadronen- und Kernphysik, Berlin, April 3-9, 2000  
J. Stachel, Urknall im Labor.
2. Gerd-Bucerius Lecture, Bucerius Law School, Hamburg, 3/5/2003  
Das Quark-Gluon Plasma; Schluesselfragen der Teilchenphysik
3. Hospitalhof Stuttgart, öffentlicher Abendvortrag, 10/1/2003  
In der Hitze von 100 000 Sonnen
4. Integra Symposium 2004, Mannheim, 6/3/2004  
Teilnahme Podiumsdiskussion: Bildung, Menschlichkeit und Persönlichkeit
5. Öffentlicher Abendvortrag Senden, 6/2005  
Reise zum Urknall
6. Festveranstaltung zum 125-jährigen Bestehen des Spohngymnasium, 10/2006  
Reise zum Urknall
7. Journalistenreise zum CERN, 11/1/2006  
die deutschen Beiträge zu den LHC Experimenten
8. Einweihung der BMBF Forschungsschwerpunkte, 2/2/2007  
Der BMBF Forschungsschwerpunkt ALICE
9. Talk im Hirsch, Schwetzingen, February 4, 2009  
Der LHC und der Urknall im Labor
10. Humboldttag, Universität Heidelberg, June 30, 2011  
Bridging the Gaps between Cultures and Disciplines.
11. Eröffnung der Ausstellung Weltmaschine, GSI, August 26, 2011  
LHC - die Maschine zur Erforschung von wissenschaftlichem Neuland.
12. Eröffnung der Ausstellung Weltmaschine, Tübingen, January 11, 2012  
LHC - die Maschine zur Erforschung von wissenschaftlichem Neuland.
13. Vortragsreihe über das Nichts, Stadtgalerie Saarbrücken, January 19, 2017  
Reise zum Urknall.
14. International Seminar "For a Next Generation of World-Wide Leading Engineers",  
Institute of Innovative Science and Technology, Nagasaki Institute of Applied Science,  
Nagasaki, March 21, 2017  
Ensuring the physics education for a next generation of world-wide leading scientists  
and engineers - some lessons from Germany
15. Lise-Meitner Lecture, Plenarvortrag, Frühjahrstagung der DPG, Münster, March 28, 2017  
Erforschung von Urknallmaterie an der Weltmaschine LHC.
16. Heidelberger Akademie der Wissenschaften, July 21, 2017  
Erforschung von Urknallmaterie an der Weltmaschine LHC.
17. Nordrhein-Westfälische Akademie der Wissenschaften, Düsseldorf, September 26, 2018  
Erforschung von Urknallmaterie an der Weltmaschine LHC.

18. Lise-Meitner Lecture, November 7, 2018, Wien, Österreich  
Erforschung von Urknallmaterie an der Weltmaschine LHC
19. Dritter Monheimer Wissenschaftstag, Monheim, February 19, 2019  
Erforschung von Urknallmaterie an der Weltmaschine LHC
20. iCANX Talk, Beijing (virtual) July 23, 2021  
Exploring Big Bang Matter with Collisions of Heavy Nuclei at the Large Hadron Collider