

PUBLIKACJE PUBLICATIONS 2004

Scientific articles

„Philadelphian” publications

1. R. Maj and St. Mrówczyński,
Inaccurate Use of Asymptotic Formulas,
American Journal of Physics **72** (2004) 922.
2. St. Mrówczyński, A. Rebhan, and M. Strickland,
Hard-Loop Effective Action for Anisotropic Plasmas,
Physical Review **D70** (2004) 025004.
3. C. Manuel and St. Mrówczyński,
Whitening of the Quark-Gluon Plasma,
Physical Review **D70** (2004) 094019.
4. St. Mrówczyński, M. Rybczyński and Z. Włodarczyk,
*Transverse Momentum versus Multiplicity Fluctuations
in High-Energy Nuclear Collisions*,
Physical Review **C70** (2004) 054906.
5. M. Gaździcki, St. Mrówczyński, and M.I. Gorenstein,
Fluctuations and Deconfinement Phase Transition in Nucleus-Nucleus Collisions,
Physical Letters **B585** (2004) 115.
6. St. Mrówczyński and R. Maj,
Sum Rule of the Correlation Function,
Nukleonika **49**, Suppl. 2 (2004) S27.
7. C. Alt et al.(NA49 Collaboration),
*Evidence for an Exotic $S=-2$, $Q=-2$ Baryon Resonance in Proton-Proton Collisions at
the CERN SPS*,
Physical Review Letters **92** (2004) 042003
8. T. Anticic et al., (NA49 Collaboration),
 Λ and $\bar{\Lambda}$ Production in Central Pb-Pb Collisions at 40, 80 and 158 A GeV,
Physical Review Letters **93** (2004) 022302
9. T. Anticic et al. (NA49 Collaboration),
*Energy and centrality dependence of deuteron and proton production in Pb+Pb
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Physical Review **C69** (2004) 024902
10. T.Anticic et al. (NA49 Collaboration),
Transverse momentum fluctuations in nuclear collisions at 158A GeV,
Physical Review **C70** (2004) 034902
11. V. Friese et al. (NA49 Collaboration),
Strangeness from 20 AGeV to 158 AGeV,

- Journal of Physics **G30** (2004) S119
12. Ch. Meurer et al. (NA49 Collaboration),
 Ξ^- and Ξ^+ production in Pb+Pb collisions at 40 A GeV at CERN SPS,
Journal of Physics **G30** (2004) S175
 13. M. Mitrovski et al. (NA49 Collaboration),
 Ω^- and Ω^+ production in Pb+Pb and p+p collisions at 30, 40 and 158 A GeV,
Journal of Physics **G30** (2004) S357
 14. I. Kraus et al. (NA49 Collaboration),
System size dependence of strangeness production at 158 A GeV,
Journal of Physics **G30** (2004) S583
 15. M. Gazdzicki (NA49 Collaboration),
Report from NA49,
Journal of Physics **G30** (2004) S701
 16. Ch. Meurer (NA49 Collaboration),
Hyperon production in Pb+Pb collisions at the CERN-SPS,
Journal of Physics **G30** (2004) S1325
 17. S. Kniege (NA49 Collaboration),
*Rapidity and transverse momentum dependence of $\pi^- \pi^-$ Bose-Einstein correlations
measured at 20, 30, 40, 80 and 158 A GeV beam energy,*
Journal of Physics **G30** (2004) S1073
 18. K. Kadija (NA49 Collaboration),
Exotic baryon resonances in p+p interactions with the NA49 detector,
Journal of Physics **G30** (2004) S1359
 19. Ch. Roland (NA49 Collaboration),
*Event-by-event fluctuations of particle ratios
in central Pb+Pb collisions at 20-158 A GeV,*
Journal of Physics **G30** (2004) S1381
 20. C. Alt et al. (NA49 Collaboration),
Strangeness from 20-A-GeV to 58-A-GeV
Journal of Physics **G30** (2004) S119.
 21. M. Gaździcki (NA49 Collaboration),
*Energy scan program at the CERN SPS and an observation of the deconfinement
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Journal of Physics **G30** (2004) S161.
 22. C. Alt et al. (NA49 Collaboration),
*Multistrange Hyperon Production in Pb-Pb Collisions
at 30-AGeV, 40-AGeV, 80-AGeV and 158-AGeV,*
Progress in Particle and Nuclear Physics **53** (2004) 269.

23. G. Wilk and Z. Włodarczyk,
Nonextensive information entropy for stochastic networks,
Acta Physica Polonica **B35** (2004) 871.
24. M. Rybczyński, Z. Włodarczyk, and G. Wilk,
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25. G. Wilk and Z. Włodarczyk,
Stochastic network view on hadron production,
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26. F.S. Navarra, O.V. Utyuzh, G. Wilk, and Z. Włodarczyk,
*Information theory approach (extensive and nonextensive) to high energy
multiparticle production processes,*
Physica **A340** (2004) 467.
27. F.S. Navarra, O.V. Utyuzh, G. Wilk, and Z. Włodarczyk,
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Physica **A344** (2004) 568.
28. F.S. Navarra, O.V. Utyuzh, G. Wilk and Z. Włodarczyk,
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29. O.V. Utyuzh, G. Wilk, and Z. Włodarczyk,
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30. A. Baran, W. Broniowski, and W. Florkowski,
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31. W. Florkowski,
Schwinger tunneling mechanism and thermal character of hadron spectra,
Acta Physica Polonica **B35** (2004) 799.
32. W. Broniowski and W. Florkowski,
Resonance Production in a Thermal Model,
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33. W. Florkowski, P. Bożek, W. Broniowski,
Balance functions from a Thermal Model,
Acta Physica Hungarica, Heavy Ion Physics **A21/1** (2004) 49.
34. W. Florkowski, W. Broniowski, and P. Bozek,
*Production of resonances in a Thermal Model: Invariant Mass
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35. W. Broniowski, W. Florkowski, L. Glozman,
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Physical Review **D70** (2004) 117503.
36. W. Broniowski and W. Florkowski,
Hydro-Inspired Parametrizations of Freeze-out in Relativistic Heavy Ion Collisions
Acta Physica Polonica **B35** (2004) 2895.
37. M.M. Aggarwal et al. (G. Stefanek),
Interferometry of Direct Photons in Central $^{208}\text{Pb}+^{208}\text{Pb}$ Collisions at 158A GeV,
Physical Review Letters **93** (2004) 022301.
38. M. Gaździcki,
Observation Of Deconfinement Phase Transition In Nucleus Nucleus Collisions,
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39. V.V. Begun, M. Gaździcki, M.I. Gorenstein, O.S. Zozulya,
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40. Y. Hama, F. Grassi, O. Socolowski, T. Kodama, M. Gaździcki and M. Gorenstein,
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41. F. Becattini, M. Gaździcki, A. Keranen, J. Manninen and R. Stock,
Chemical equilibrium in nucleus nucleus collisions at relativistic energies,
Physical Review **C69** (2004) 024905.
42. M. Gaździcki, M.I. Gorenstein, F. Grassi, Y. Hama and T. Kodama,
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*Fluctuations of strangeness and deconfinement phase transition
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44. M. Kliemant, B. Lungwitz and M. Gaździcki,
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Physical Review **C69** (2004) 044903.
45. K.Dworecki, M.Drabik, T.Hasegawa, and S.Wąsik,
Modification transport properties of polymer membranes by ion implantation,
Nuclear Instruments and Methods **B185** (2004) 483
46. A.Słezak, K.Dworecki, J.Jasik-Ślęzak, and J.Wąsik,
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47. T. Kosztołowicz,
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48. A. Kubala-Kukuś and M. Pajek,
Simulation of Censoring Effect in XRF Analysis,
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49. M. Pajek, A. Kubala-Kukuś, D. Banaś, J. Braziewicz and U. Majewska,
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X-Ray Spectrometry **33** (2004) 306.
50. M. Pajek, A. Kubala-Kukuś and J. Braziewicz,
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Spectrochimica Acta **B59** (2004) 1091.
51. J. Braziewicz, A. Kubala-Kukuś and M. Pajek,
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52. M. Pajek and A. Kubala-Kukuś,
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53. A. Kubala-Kukuś, E. Kuternoga, J. Braziewicz and M. Pajek,
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Spectrochimica Acta **B59** (2004) 1711.
54. J. Braziewicz, L. Kownacka, U. Majewska, and A. Korman,
Elemental concentrations in tropospheric and lower stratospheric air in a northeastern region of Poland,
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55. J. Braziewicz, U. Majewska, K. Słabkowska, M. Polasik, I. Fijał, M. Jaskóła, A. Korman, W. Czarnacki, S. Chojnacki, and W. Kretschmer

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57. A. Okopińska ,
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Laser Physics **14** (2004) 591.
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70. P. Flin, M. Biernacka, and J. Krywult,
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4. B.M. Barbashov, A.G. Zorin, V.N. Pervushin i P. Flin,
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5. J. Braziewicz,
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V Konferencja „Membrany i Procesy Membranowe w Ochronie Środowiska”,
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12. K. Dworecki, M. Drabik, T. Hasegawa, A. Ślęzak i S. Wąsik,
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1. J. Semaniak, J. Semaniak,
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2. J. Semaniak, A. Kubala-Kukuś, J. Semaniak,
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3. J. Semaniak, J. Semaniak, J. Krywult,
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3. P. Flin,
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4. Marek Gaździcki, Reinhard Stock, and Peter Seyboth,
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PARTICIPATION IN CONFERENCES

Lectures

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2. P. Flin,
Ludwik Silberstein, life and work,
XIX School of Cosmology and Gravitation “Historical Review of Gravitational Theories and Experiments”,
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3. M. Gaździcki,
Report from NA49,
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4. M. Gaździcki,
Strangeness and Deconfinement in Nucleus-Nucleus Collisions,
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BNL, USA, May 10, 2004
5. M. Gaździcki,
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Skopelos, Greece, 29 May - 2 June, 2004
6. M. Gaździcki,
Ion Program at the CERN SPS,
Special SPSC meeting,
Villars, Switzerland, September, 2004
7. M. Gaździcki,
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8. M. Gaździcki,
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Stony Brook, USA, November 17, 2004
9. St. Mrówczyński,
Whitening of the Quark-Gluon Plasma,
20-th Winter Workshop on Nuclear Dynamics,
Trelawny Beach, Jamaica, March 15-20, 2004
10. St. Mrówczyński,
Whitening of the Quark-Gluon Plasma,
Strong and Electroweak Matter 2004,
Helsinki, Finland, June 16-19, 2004
11. A. Okopińska,
Approximations to density functional of interacting bosons,
Laser Physics 04,
Triest, Italy, July 12-16, 2004
12. M. Pajek,
Statistical Aspects of Trace Element Analysis in Medical Samples,
10th National Conference on Application of Mathematics in Biology and Medicine,
Święty Krzyż, Poland, 22-25 September, 2004
13. M. Rybczyński,
Multiplicity Fluctuations in Relativistic Heavy Ion Collisions,
Focus on Multiplicity – International Workshop on Particle Multiplicity in Relativistic Heavy Ion Collisions,
Bari, Italy, June 15 – 20, 2004
14. M. Rybczyński,
Multiplicity Fluctuations in High-Energy Nuclear Collisions,
International Workshop on Future of Nuclear Collisions at High Energies,
Kielce, Poland, October 15-17, 2004
15. M. Rybczyński, G. Wilk and Z. Włodarczyk,
Strangelets in cosmic rays,
XIII International Symposium on Very High Energy Cosmic Ray Interactions,
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16. G. Wilk and Z. Włodarczyk,
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19. W. Florkowski,
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Oakland, USA, January 11-17, 2004
20. W. Florkowski,
Strange Particle Production in a Single-Freeze-Out Model,
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