

PUBLICATIONS 2005

Scientific articles

„Philadelphian” publications

1. C. Alt et al. (NA49 Collaboration),
System-size dependence of strangeness production in nucleus-nucleus collisions at $\sqrt{s_{NN}} = 17.3 \text{ GeV}$,
Physical Review Letters 94 (2005) 052301.
2. C. Alt et al. (NA49 Collaboration),
 Ω^- and $\bar{\Omega}^+$ production in central Pb+Pb collisions at 40 and 158 A GeV,
Physical Review Letters 94 (2005) 192301.
3. C. Alt et al. (NA49 Collaboration),
System size and centrality dependence of the balance function in A+A collisions at $\sqrt{s_{NN}} = 17.2 \text{ GeV}$,
Physical Review C 71 (2005) 034903.
4. P. Seyboth et al. (NA49 Collaboration),
Indications for the onset of deconfinement in Pb+Pb collisions at the CERN SPS from NA49, Proceedings of 34-th International Symposium on Multiparticle Dynamics (ISMD 2004), Rohnert Park, California, 26 Jul - 1 Aug 2004,
Acta Physica Polonica B 36 (2005) 565.
5. M. Mitrovski et al. (NA49 Collaboration),
Hyperon production at CERN SPS energies,
Acta Physica Hungarica A 24 (2005) 157.
6. P. Christakoglou et al. (NA49 Collaboration),
System Size and Centrality Dependence of the Electric Charge Correlations in A+A and p+p Collisions at the SPS Energies,
Nuclear Physics A 749 (2005) 279c.
7. O. Chvala et al. (NA49 Collaboration),
Pion production in Pb Pb collisions at the SPS,
Nuclear Physics A 749 (2005) 304c.
8. G. Martinez et al. (NA49 Collaboration),
The Muon Spectrometer of the ALICE experiment,
Nuclear Physics A 749 (2005) 313c.
9. I. Kraus et al., (NA49 Collaboration),
System size dependence of strange particle yields and spectra at $\sqrt{s_{NN}} = 17.3 \text{ GeV}$,
Journal of Physics G 31 (2005) S147.
10. A. Richard et al. (NA49 Collaboration),

Energy dependence of hyperon production in central Pb+Pb collisions at the CERN-SPS,
Journal of Physics G 31 (2005) S155.

11. C. Blume et al. (NA49 Collaboration),
Review of results from NA49 collaboration,
Journal of Physics G 31 (2005) S685.
12. V. Friese et al. (NA49 Collaboration),
Energy dependence of strangeness production,
Journal of Physics G 31 (2005) S911.
13. C. Roland et al. (NA49 Collaboration),
Event-by-event fluctuations of particle ratios in central Pb+Pb collisions at 20 – 158 A GeV,
Journal of Physics G 31 (2005) S1075.
14. P. Dinkelaker et al. (NA49 Collaboration),
System size dependence of hadron production in A+A collisions at 40 A GeV beam energy,
Journal of Physics G 31 (2005) S1131.
15. D. Flierl et al. (NA49 Collaboration),
Indications for the Onset of Deconfinement in Nucleus Nucleus Collisions,
Proceedings of 6-th Conference on Quark Confinement and the Hadron Spectrum,
Villasimius, Sardinia, Italy, 21-25 Sep 2004,
AIP Conference Proceedings 756 (2005) 433.
16. G. Wilk and Z. Włodarczyk,
Information theory point of view on stochastic networks,
Acta Physica Polonica B 36 (2005) 2513.
17. M. Rybczynski, Z. Włodarczyk and G. Wilk,
Are there strangelets in cosmic rays?
International Journal of Modern Physics A 20 (2005) 6724.
18. M. I. Gorenstein, M. Gaździcki, and W. Greiner,
Critical line of the deconfinement phase transitions,
Physical Review C 72 (2005) 024909.
19. P. Bożek, W. Broniowski, and W. Florkowski,
Balance functions in a Thermal Model with Resonances,
Acta Physica Hungarica A 22 (2005) 149.
20. W. Broniowski, W. Florkowski, and B. Hiller,
Production of Resonances in a Thermal Model,
Acta Physica Hungarica A 22 (2005) 159.
21. G. Torrieri, S. Steinke, W. Broniowski, W. Florkowski, J. Letessier, and J. Rafelski,
SHARE: Statistical Hadronization with Resonances,

Computer Physics Communications 167 (2005) 229.

22. M. Chojnacki, W. Florkowski, and T. Csorgo,
On the formation of Hubble Flow in Little Bangs,
Physical Review C 71 (2005) 044902.
23. W. Florkowski, W. Broniowski, and A. Baran,
Strange Particle Production in a Single-Freeze-Out Model,
Journal of Physics G 31 (2005) S1087.
24. P. Kościak and A. Okopińska,
Application of the Fröbenius method to the Schrödinger equation for a spherically symmetric potential: anharmonic oscillator,
Journal of Physics A 38 (2005) 7743.
25. H. Montaigne, W. D. Geppert, J. Semaniak, F. Österdahl, F. Hellberg, R. D. Thomas, M. af Ugglas, H. Roberts, T. J. Millar, V. Zhaunerchyk, M. Kamińska, A. Al-Khalili, A. Källberg, and M. Larsson
Dissociative Recombination of the Thioformyl (HCS⁺) and Carbonyl Sulfide (OCS⁺) Cations,
Astrophysical Journal 631 (2005) 653.
26. O. Novotny, J. B. A. Mitchell, J. L. LeGarrec, A. I. Florescu-Mitchell, C. Rebrion-Rowe, A. Svendsen, M. A. El Ghazaly, L. H. Andersen, A. Ehlerding, A. A. Viggiano, F. Hellberg, R. D. Thomas, V. Zhaunerchyk, W. D. Geppert, H. Montaigne, M. Kamińska, F. Österdahl and M. Larsson,
The dissociative Recombination of Fluorocarbon Ions. II: CF⁺,
Journal of Physics B 38 (2005) 1471.
27. Gumberidze, Th. Stöhlker, D. Banaś, K. Beckert, P. Beller, H.F. Beyer, F. Bosch, S. Hagmann, C. Kozuharov, D. Liesen, F. Nolden, X. Ma, P.H. Mokler, A. Orsic Muthig, M. Steck, D. Sierkowski, S. Tachenov, and Y. Zou
Quantum Electrodynamics in Strong Electric Fields: The Ground State Lamb Shift in Hydrogenlike Uranium.
Physical Review Letters 94 (2005) 223001.
28. J. Rzadkiewicz, D. Chmielewska, Z. Sujkowski, M. Berset, J.-Cl. Dousse, Y.-P. Maillard, O. Mauron, P. A. Raboud, M. Polasik, K. Ślabkowska, J. Hoszowska, and M. Pajek,
Natural widths of hypersatellite K X-ray spectra and lifetimes of double K-hole states in mid-Z atoms,
Nuclear Instruments and Methods B 235 (2005) 110.
29. I. Fijał, M. Jaskóła, A. Korman, D. Banaś, J. Braziewicz, M. Czarnota, U. Majewska, J. Semaniak, W. Kretschmer, T. Mukoyama, and D. Trautmann,
Coupling and binding effects in L-shell ionization in heavy atoms by oxygen, silicon and sulphur ions,
Nuclear Instruments and Methods B 235 (2005) 301.

30. D. Banaś, Th. Stöhlker, D. C. Ionescu, H. F. Beyer, F. Bosch, A. Braeuning-Demian, A. Gumberidze, S. Hagmann, C. Kozhuharov, X. Ma, P. H. Mokler, R. Mann, D. Sierkowski, S. Tachenov, Z. Stachura, and A. Warczak,
X-ray emission studies in relativistic collisions of Li-like uranium ions with gaseous target,
Nuclear Instruments and Methods B 235 (2005) 326.
31. J. Braziewicz, U. Majewska, M. Polasik, K. Ślabkowska, I. Fijał, M. Jaskóła, A. Korman and W. Kretschmer,
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Nuclear Instruments and Methods B 235 (2005) 403.
32. J. Szlachetko, R. Barrett, M. Berset, J.-Cl. Dousse, K. Fennane, J. Hoszowska, A. Kubala-Kukus, M. Pajek, and M. Szlachetko,
Resonant X-ray Raman scattering for Al, Si and their oxides,
Nuclear Instruments and Methods B 238 (2005) 353.
33. J. Bąbel, J. Braziewicz, M. Jaskóła, W. Kretschmer, M. Pajek, J. Semaniak, A. Schaff, and T. Uhl,
The radiocarbon dating of the Neolithic flint mines at Krzemionki in central Poland,
Nuclear Instruments and Methods B 240 (2005) 539.
34. J. Braziewicz, R. Dudzik, M. Jaskóła, A. Kubala-Kukuś, W. Kretschmer, J. Rutkowski, J. Semaniak, A. Scharf, M. Stankiewicz, and T. Uhl,
Examinations of wooden sculptures from the altar of Veit Stoss in Cracow,
Nuclear Instruments and Methods B 240 (2005) 544.
35. W. Godłowski, M. Szydłowski, and P. Flin,
Some remarks on the angular momenta of galaxies, their clusters and superclusters,
General Relativity and Gravitation 37 (2005) 615.
36. M. E. Carrington and St. Mrówczyński,
Transport theory beyond binary collisions,
Physical Review D 71 (2005) 065007.
37. R. Maj and St. Mrówczyński,
Sum rule of the correlation function,
Physical Review C 71 (2005) 044905.
38. C. Manuel and St. Mrówczyński,
Strongly and weakly unstable anisotropic quark-gluon plasma,
Physical Review D 72 (2005) 034005.
39. T. Kosztołowicz,
Transport in diffusive-subdiffusive system,
Acta Phys. Pol. B 36 (2005) 1635.
40. T. Kosztołowicz, K. Dworecki, and St. Mrówczyński,
How to measure subdiffusion parameters,
Physical Review Letters 94 (2005) 170602.

41. T. Kosztołowicz, K. Dworecki, and St. Mrówczyński,
Measuring subdiffusion parameters,
Physical Review E 71 (2005) 041105.
42. K. Dworecki,
Experimental investigation of the anomalous subdiffusion in a membrane system,
Physica A 359 (2006) 24.
43. K. Dworecki, A. Ślęzak, B. Ornał-Wąsik, and S. Wąsik,
Evolution of concentration field in a membrane system,
J. Biochem. Biophys. Methods 62 (2005) 153.
44. K. Dworecki, A. Ślęzak, B. Ornał-Wąsik, and S. Wąsik,
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J. Memb. Sci. 265 (2005) 94.
45. Ślęzak, K. Dworecki, I.H. Ślęzak, and S. Wąsik,
Permeability coefficient model equations of the complex: Membrane-concentration boundary layers for ternary nonelectrolyte solutions,
J. Memb. Sci. 267 (2005) 50.
46. M. Kargol, A. Kargol, and G. Suchanek,
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Acta Physiologiae Plantarum 27 (2005) 71.
47. M. Kargol, G. Suchanek, M. Przestalski, J. Siedlecki, and A. Kargol,
The problem of water exchange across the living cell in the light of the mechanistic equations of transport,
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48. Kargol, M. Przestalski, and M. Kargol,
A study of porous structure of cellular membranes in human erythrocytes,
Cryobiology 50 (2005) 332.
49. G. Suchanek,
On the Derivation of the Kargols Mechanistic Transport Equations from the Kedem-Katchalsky Phenomenological Equations,
Gen. Physiol. and Biophys. 24 (2005) 247.
50. T. Kosztołowicz,
How to measure a subdiffusion coefficient and a subdiffusion parameter,
AIP Conference Proceedings 800, UPON 4, Gallipoli, 6-10 June 2005, eds. L. Reggiani et al., pp. 569-573.
51. M. Kamińska et al.,
Branching ratios and absolute cross sections of dissociative recombination process of N₂O⁺,
Phys. Chem. Chem. Phys. 7 (2005) 1664.

52. J. Semaniak, et al.,
Rate constants and branching ratios for the dissociative recombination of C3D+7 and C4D+9
Journal of Chemical Phys. 122 (2005) 156101.

Other publications

53. M. Rybczyński et al. (NA49 Collaboration),
Multiplicity fluctuations in nuclear collisions at 158 A GeV,
Proceedings of International Workshop on Particle Multiplicity in Relativistic Heavy
Ion Collisions Focus on Multiplicity, Bari, Italy, 17-19 Jun 2004,
Journal of Physics, Conference Series 5 (2005) 74.
54. C. Alt et al. (NA49 Collaboration),
Main physics results and further analysis plans of the NA49 Collaboration on nucleus-nucleus collisions at SPS,
CERN-SPSC-2005-041 and CERN-SPSC-P-264-ADD-12, Nov 2005.
55. M. Gazdzicki,
Fluctuations and NA49,
Journal of Physics, Conf. Ser. 27 (2005) 154.
56. M. Rybczyński and Z. Włodarczyk,
Non-monotonic behavior of multiplicity fluctuations,
Journal of Physics, Conference Series 5 (2005) 238.
57. E. Gladysz-Dziadus and Z. Włodarczyk,
Black Holes versus Strange Quark Matter,
in: *Trends in Black Hole Research*
(Editor: Paul V.Kreitler, Nova Science Publishers Inc., 2005) p. 171.
58. St. Mrówczyński,
Whitening of the Quark-Gluon Plasma,
Proceedings of Strong and Electroweak Matter 2004, Helsinki, Finland, June 16-19,
2004, edited by K.J. Eskola, K. Kainulainen, K. Kajantie, and K Rummukainen,
World Scientific, Singapore, 2005.
59. T. Kosztołowicz and K.D. Lewandowska,
Subdiffusive reaction front in the enamel caries process
Diffusion Fundamentals I Basic Principles of Theory, Experiment and Application,
September 21 st - 24 th , 2005 Leipzig, Germany, Leipzig University, p. 574.
60. T. Kosztołowicz,
How to measure subdiffusion coefficient,
Diffusion Fundamentals I Basic Principles of Theory, Experiment and Application,
September 21 st - 24 th , 2005 Leipzig, Germany, Leipzig University, p. 572.

61. E. A. Panko and P. Flin,
Sozdanie kataloga skoplenij galaktyk,
Vestnik Astr. Szkoły 5 (2005) 226.
62. P. Flin et al.,
Conformal gravitation and evolution of galaxies,
Proceedings of the 11th Lomonosov Conference on Elementary Physics, World Scientific Publishing Company, Singapore, 2005, p. 130.
63. J. Semaniak et al.,
Storage ring measurements of the dissociative recombination rate of rotationally cold H⁺³
Journal of Phys., Conference Series 4 (2005) 92.
64. J. Semaniak, M. Kamińska, et al.,
Dissociative recombination branching ratios and their influence on interstellar clouds
Journal of Phys., Conference Series 4 (2005) 26.
65. P. Kankiewicz,
Stabilność orbit planetoid NEA o dużych mimośrodach (The stability of large-eccentricity NEA orbits),
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66. P. Kankiewicz,
Planetoidy zbliżające się do Marsa,
Proceedings of the Polish Celestial Mechanics Seminar, 23-25.06.2004, (materiały Komeciarz, Biuletyn Naukowy Sekcji Obserwatorów Komet, 41 (2005) 7.
67. P. Kankiewicz,
Obserwacje małych ciał Układu Słonecznego w Obserwatorium Astronomicznym AŚ,
Materiały z konferencji Wykorzystanie małych teleskopów, Akademia Świętokrzyska, Polskie Towarzystwo Miłośników Astronomii, Kielce, Kraków 2005, str. 73.
68. T. Kosztołowicz and K.D. Lewandowska,
Subdiffusion in the formation of carious lesion,
Proc. XI Natl. Conf. Appl. Math. Biol. Med., Zawoja, 21-24 September 2005, p. 85.
69. K.D. Lewandowska and T. Kosztołowicz,
Application of the perturbation method to modeling the enamel caries progress,
Proc. XI Natl. Conf. Appl. Math. Biol. Med., Zawoja, 21-24 September 2005, p.79.
70. Małgorzata Wysocka-Kunisz i Kazimierz Kunisz,
Realizacja treści edukacji ekologicznej w nauczaniu fizyki wymogiem zrównoważonego rozwoju, w: *Edukacja środowiskowa wzmacnieniem zrównoważonego rozwoju*, pod red. D. Cichy,
Instytut Badań Edukacyjnych, Warszawa 2005, str. 72.

Text-books and scripts

1. J. Semaniak, J. Semaniak, J. Krywult
Od kwarków do galaktyk. Podręcznik do fizyki i astronomii dla liceum ogólnokształcącego, profilowanego i technikum (zakres podstawowy z elementami rozszerzającymi), część 2.
MAC Edukacja, Kielce 2005, ISBN83-7315-864-2, Nr dopuszczenia 279/04
2. J. Semaniak, J. Semaniak, J. Krywult, A. Kubala-Kukuś
 - Drgania i fale. Od kwarków do galaktyk. Zbiór zadań do fizyki i astronomii dla liceum ogólnokształcącego, profilowanego i technikum (zakres podstawowy i rozszerzony), moduł 3-4.*
MAC Edukacja, Kielce 2005, ISBN83-7515-713-1

Popular articles

1. H. W. Duerbeck and P. Flin,
Ludwik Silberstein – Einsteins Antagonist, Einsteins Kosmos (2005) p.186,
Untersuchungen zur Geschichte der Kosmologie, Relativitätstheorie und zu Einsteins Wirken und Nachwirken (redakorzy: Hilmar W. Duerbeck i Wolfgang R. Dick), Wissenschaftlicher Verlag Harri Reutsch GmbH, Frankfurt am Main, 2005, ISBN 3-8171-1770-1
2. St. Mrówczyński,
Przyszłość zderzeń jądrowych przy wysokich energiach,
Postępy Fizyki 56 (1) (2005) 40.
3. P. Flin,
Nowości z Kielc,
Urania - Postępy Astronomii 3 (2005) 123.

PARTICIPATION IN CONFERENCES

Invited lectures

International

1. M. Gaździcki,
Search for the critical point - a possible future programs at SPS and RHIC,
Hirschegg Workshop "Probing QCD with High Energy Nuclear Collisions",
Hirschegg, Austria, January, 16-22, 2005.
2. M. Gaździcki,
Search for the critical point at the CERN SPS,
2nd International Workshop on the Critical Point and Onset of Deconfinement,
Bergen, Norway, March 30 - April 3, 2005.
3. M. Gaździcki,
Observation of the Onset of Deconfinement and Search for the Critical Point; Past and Future of the Ion Physics at the CERN SPS,
Heavy Ion Forum, CERN, Switzerland, April 11, 2005.
4. M. Gaździcki,
Fluctuations and NA49,
International Workshop on Correlations and Fluctuations, MIT, USA, April 21-23, 2005.
5. M. Gaździcki,
Energy Dependence of Hadron Production and the Nuclotron Energy Range,
invited talk at the *Round Table Discussion: Searching for the mixed phase of strongly interacting matter at the JINR Nuclotron*,
JINR, Dubna, Russia, July 7-9, 2005.
6. M. Gaździcki,
Observation of the onset of deconfinement and search for the critical point, NATO Advanced Research Workshop "Nuclear Science and Safety in Europe", Jalta, Ukraine, September 10-16, 2005.
7. St. Mrówczyński,
Whitening of the Quark-Gluon Plasma,
5-th International Conference on Physics and Astro-Physics of Quark Gluon Plasma, Calcutta, India February 8 - 12, 2005.
8. St. Mrówczyński,
Thermalization in nuclear collisions,
2-nd International Workshop on the Critical Point and Onset of Deconfinement, Bergen, Norway, March 30 - April 3, 2005.

9. St. Mrówczyński,
Thermalization versus Isotropization and Azimuthal Fluctuations,
 MIT Workshop on Correlations and Fluctuations in Relativistic Nuclear Collisions,
 Cambridge, Massachusetts, USA, April 21-23, 2005.
10. St. Mrówczyński,
Instabilities Driven Equilibration at the Early Stage of Nuclear Collisions,
18-th International Conference on Ultrarelativistic Nucleus-Nucleus Collisions: Quark Matter 2005, Budapest, Hungary, August 4-9, 2005.
11. St. Mrówczyński,
Plasma Instabilities and Azimuthal Fluctuations,
 Virtual Institute Workshop 'Fluctuations and Correlations', Bad Liebenzell, Germany,
 October 3-5, 2005.
12. G. Stefanek,
Elliptic Flow of Lambda Hyperons in Pb+Pb Collisions at 158A GeV,
 18-th International Conference on Ultrarelativistic Nucleus-Nucleus Collisions: Quark Matter 2005, Budapest, Hungary, August 4-9, 2005.
13. W. Florkowski,
Particle spectra and hydro-inspired models,
 18-th International Conference on Ultrarelativistic Nucleus-Nucleus Collisions: Quark Matter 2005, Budapest, Hungary, August 4-9, 2005.
14. A. Okopińska,
Kohn-Sham approximation scheme for cold trapped bosons,
 14-th Laser Physics Workshop, Kyoto 2005.
15. M. Pajek,
State-selective X-ray study of radiative recombination of U^{92+} ions with cooling electrons,
 24th International Conference on Photonic, Electronic and Atomic Collisions (ICPEAC), Rosario, Argentina, July 20-26 2005
16. P. Flin,
Ludwik Silberstein, life and work,
 Konferencja: "Einstein's Century" Paryż, Francja, 18- 23 lipca 2005.

Domestic

17. T. Kosztołowicz,
Measuring subdiffusion parameters,
 18th Marian Smoluchowski Symposium on Statistical Physics, Zakopane, Poland, 3-6 września 2005.

18. M. Pajek,
Photon spectroscopy at electron coolers/targets,
SPARC Workshop "Atomic Physics in Strong Fields",
Piaski, Poland, 6-11 września 2005.

 19. W. Florkowski,
Thermal Monte-Carlo for Heavy-Ion Collisions
International Mini-Workshop on *Particle Production in high-energy collisions of elementary projectiles with nuclear targets*, Instytut Fizyki Jądrowej PAN, Kraków, 30 maja 2005.
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- ## Communicates
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- ### International
1. M. Gaździcki,
Fluctuations in Nuclear Collisions,
NATO Advanced Research Workshop "Nuclear Science and Safety in Europe", Jalta, Ukraine, September 10-16, 2005.

 2. M. Gaździcki,
Virtual Institute on Physics of Strongly Interacting Matter,
International Workshop on Correlations and Fluctuations, Bad Liebenzell, Germany, October 3-5, 2005.

 3. M. Rybczyński,
Multiplicity Fluctuations in Relativistic Heavy-Ion Collisions,
Virtual Institute Meeting on Event by Event Fluctuations, GSI, Darmstadt, Germany, 10 March 2005.

 4. M. Rybczyński,
Fluctuations in Nuclear Collisions at 158 AGeV,
Virtual Institute Workshop "Physics of strongly interacting matter at high densities", Bad Liebenzell, Germany, 3 – 5 October 2005.

 5. M. Biernacka,
The evolution of galaxy clusters,
Int. Conference: A Pan-Chromatic View of Clusters of Galaxies and the Large-Scale Structure, Tonanzintla – Puebla, Meksyk, 27.06-08.07.2005.

 6. J. Braziewicz,
Iodine and selenium concentrations in thyroid cancer tissue,
11th Conference on Total Reflection X-Ray Fluorescence Analysis and Related Methods (TXRF 2005), September 18-22, 2005, Budapest, Hungary.

 7. U. Majewska,

Trace elements concentration distributions in breast, lung and intestine tissues determined by TXRF analysis,

18th International Conference on X-Ray Optics and Microanalysis (ICXOM 2005) Frascati Roma, Italy, 25-30 September 2005.

8. U. Majewska,
Elemental analysis of meteorite by TXRF technique,
18th International Conference on X-Ray Optics and Microanalysis (ICXOM 2005) Frascati Roma, Italy, 25-30 September 2005
9. A. Kubala-Kukuś,
Analysis of elemental concentration censored distributions in breast malignant and breast benign neoplasm tissues,
18th International Conference on X-Ray Optics and Microanalysis (ICXOM 2005) Frascati Roma, Italy, 25-30 September 2005.
10. J. Szlachetko
X-ray resonant Raman scattering in Si at 1s absorption edge,
ESRF Users Meeting, Grenoble, France, 08-09.02. 2005.
11. M. Pajek,
X-ray resonant Raman scattering in Si and SiO₂ at Si-K absorption egde,
24th International Conference on Photonic, Electronic and Atomic Collisions (ICPEAC), Rosario, Argentina, 20-26.07.2005.
12. M. Pajek,
Satellite structure of Pd L α _{1,2} (M₃M_{4,5}) X-ray transitions excited by oxygen ion impact,
24th International Conference on Photonic, Electronic and Atomic Collisions (ICPEAC), Rosario, Argentina, 20-26.07.2005.
13. M. Pajek,
Multiple ionization effects in x-ray emission induced by heavy ions,
19th International Seminar on Ion-Atom Collisions (ISIAC)
Rio de Janeiro, Brasil, July 28-29 2005.
14. M. Czarnota,
Interpretation of Pd L α _{1,2} M- and N-shell x-ray satellites by using the MCDF calculations,
37th Conference of European Group on Atomic Spectroscopy (EGAS)
Dublin, Ireland, August 3-6, 2005.
15. J. Szlachetko,
First high-resolution observation of X-ray resonant Raman scattering in Si at 1s absorption edge,
International Workshop on Photoionization (IWP) 2005,
Campinas, Brazil, 27-31.08. 2005.
16. J. Szlachetko,
High-resolution study of the x-ray resonant Raman scattering for Al, Si, Al₂O₃ and SiO₂ in the region of the K-absorption edge

International Workshop on Photoionization (IWP) 2005,
Campinas, Brazil, 27-31.08. 2005.

17. D. Banaś,
X-rays from radiative recombination of bare uranium ions with electrons
3rd Conference on Elementary Processes in Atomic Systems (CEPAS)
Miskolc, Hungary, 31 August - 2 September 2005.
 18. J. Czub,
An irradiation facility with a horizontal beam for radiobiological studies
14th Symposium on Microdosimetry, Venice, 13-18.11.2005
 19. A. Okopińska,
Kohn-Sham approximation scheme for an interacting many-boson system,
Optimized Effective Potential Workshop, Berlin, Niemcy, 2005.
 20. P. Flin,
A new catalogue of galaxy clusters,
Konferencja: The Fabulous Destiny of Galaxies: Bridging Past and Present, Marsylia, Francja, 20- 24 czerwca 2005.
 21. P. Flin,
Some properties of a new unbiased sample of galaxies,
Konferencja: The Fabulous Destiny of Galaxies: Bridging Past and Present, Marsylia, Francja, 20- 24 czerwca 2005.
- Domestic**
22. T. Kosztołowicz,
Subdyfuzja w procesie powstawania próchnicy,
XI Krajowa Konferencja Zastosowań Matematyki w Biologii i Medycynie, Zawoja, 21-24.IX.2005.
 23. T. Kosztołowicz,
Zastosowanie metody perturbacyjnej w modelowaniu rozwoju próchnicy,
XI Krajowa Konferencja Zastosowań Matematyki w Biologii i Medycynie, Zawoja, 21-24.IX.2005.
 24. K.Dworecki,
Experimental investigation of the subdiffusion in a membrane system,
18th Marian Smoluchowski Symposium on Statistical Physics, 3-6 September 2005, Zakopane, Poland.
 25. K. Dworecki,
Determination of the membrane permeability coefficient in the concentration polarisation conditions,

Membrane Science and Technology Conference of Visegrad Countries, PERMEA
2005, September 18-22, Polanica-Zdrój, Poland.

26. K. Dworecki,
Influence of ion implantation on polymer membrane surface properties,
Membrane Science and Technology Conference of Visegrad Countries, PERMEA
2005, September 18-22, Polanica-Zdrój, Poland.
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