

**Spis publikacji pracowników Instytutu Fizyki Doświadczalnej i Instytutu Fizyki Teoretycznej (obecnie Wydziału Fizyki) w roku 2006**

1. B.Kalska-Szostko, M.Zubowska and D.Satuła, Studies of the Magnetic Nanoparticles by Means of Mössbauer Spectroscopy, *Acta Physica Polonica A* **109** (2006) 365.
2. J.Cieśliński, B.Ratkiewicz, On simulations of the classical harmonic oscillator equation by difference equations, *Advances in Difference Equations* **2006** (2006) Article ID 40171.
3. L.Dobrzyński, A.Holas, D.Satuła and K.Szymański, Interpretation of the Mössbauer Spectroscopy Data by the Maximum Entropy Method, *AIP Conference Proceedings* (2006) p. 511.
4. P.Astone, D.Babusci, M.Bassan, K.M.Borkowski, L.Brocco, E.Coccia, S.D'Antonio, F.Fafone, S.Frasca, G.Giordano, P.Jaranowski, A.Królak, A.Marini, Y.Minenkov, I.Modena, G.Modestino, A.Moleti, A.Pai, G.V.Pallotino, C.Palomba, M.Piętka, G.Pizella, L.Quintieri, F.Ricci, A.Rocchi, F.Ronga, R.Terenzi, M.Visco, All-sky search of Explorer data: search for coincidences, *Class. Quantum Grav.* **23** (2006) S687.
5. K.Winkler, M.E.Płońska, K.Rećko and L.Dobrzyński, Remarkable Solvent Effect on the Structure and Electrochemical Properties of  $[M(\text{bipirydyl})_3](\text{ClO}_4)_3$  ( $M = \text{Co, Fe and Ru}$ ) Films, *Electrochimica Acta* **51** (2006) 4544.
6. A.Branicki, Wyznaczanie odległości i rozmiarów Księżyca, *Fizyka w Szkole* **1** (2006).
7. A.Branicki, Z pogranicza astronomii, *Fizyka w Szkole* **3** (2006).
8. J.Cieśliński, Discretization of multidimensional submanifolds associated with Spin-valued spectral problems, *Fundamentalnaya i prikladnaya matematika* **12** (2006) 253.
9. K.Szymański, L.Dobrzyński, Optimization of the filter technique, *Hyperfine Interactions* **167** (2006) 911.
10. A.Andrejczuk, Y.Sakurai, M.Ito, A Compound Refractive Lens for 175-keV for Magnetic Compton Profile Measurements at SPring-8, *IAPP Conf. Series* **7** (2006) 162.
11. V.Zabłotskii, M.Kisielewski, A.Maziewski and T.Polyakova, Field and anisotropy-induced evaluation of magnetization distributions in ultrathin magnetic films, *J.Magn.Magn.Mater.* **300** (2006) e301.
12. J.L.Cieśliński, A geometric interpretation of the spectral parameter for surfaces of constant mean curvature, *J.Nonlin.Math.Phys.* **13** (2006) 507.
13. J.Cieśliński, J.Czarnecka, The Darboux-Bäcklund transformation for the static 2-dimensional continuum Heisenberg chain, *Journal of Physics A* **39** (2006) 11003.
14. K.Gawryluk, M.Brewczyk, M.Gajda, J.Mostowski, Formation of soliton trains in Bose-Einstein condensates by temporal Talbot effect, *Journal of Physics B* **39** (2006) L1.
15. K.Gawryluk, M.Brewczyk, K.Rzążewski, Thermally induced instability of a doubly quantized vortex in a Bose-Einstein condensate, *Journal of Physics B* **39** (2006) L225.
16. M.Foldyna, K.Postava, R.Ossikowski, A. De Martino, E.Garcia-Caurel, Effective spectral optical functions of lamellar nanogratings, *Journal of the European Optical Society* **1** (2006) 06015.
17. K.Postava, A.Maziewski, A.Stupakiewicz, A.Wawro, L.T.Baczewski, S.Visnovsky, T.Yamaguchi, Transverse magneto-optical Kerr effect measured using phase modulation, *Journal of the European Optical Society* **1** (2006) 06017.
18. J.Jaworowicz, Z.Kurant, K.Postava, A.Maziewski, L.T.Baczewski, A.Wawro, Domain structures and magnetization processes in thin Co films with in-plane anisotropy, *Mat.Sci.-Poland* **24** (2006) 639.
19. A.Stupakiewicz, R.Gieniusz, K.Postava, M.Tekielak, A.Maziewski, I.Szerel, A.Wawro, L.T.Baczewski, Magnetic ordering in ultrathin Co films grown on vicinal substrates, *Mat.Sci.-Poland* **24** (2006) 659.
20. K.Szymański, L.Dobrzyński, D.Satuła, E.Voronina, E.P.Yelsukov, Magnetization distribution in nanocrystalline  $\text{Fe}_{0.48}\text{Al}_{0.52}$ , *Mat.Sci.-Poland* **24** (2006) 754.
21. W.Stefanowicz, M.Tekielak, V.Bucha, A.Maziewski, V.Zabłotskii, L.T.Baczewski, A.Wawro, Dendritic domain structures in ultrathin cobalt films, *Mat.Sci.-Poland* **24** (2006) 783.
22. M.Nikołajuk, B.Czerny, J.Ziółkowski, M.Gierliński, Consistency of the black hole mass determination in AGN from the reverberation and the X-ray excess variance method, *Mon. Not. R. Astron. Soc.* **370** (2006) 1534.
23. K.Szymański, Theory of the resonant filter for polarized radiation, *Nucl.Instr.Meth. B* **243** (2006) 429.
24. T.Karpiuk, M.Brewczyk, K.Rzążewski, Bright solitons in Bose-Fermi mixtures, *Phys.Rev. A* **73** (2006) 053602.
25. K.Nygård, M.Hakala, S.Manninen, K.Hämäläinen, M.Ito, A.Andrejczuk and Y.Sakurai, Ion hydration studied by x-ray Compton scattering, *Phys.Rev. B* **73** (2006) 024208
26. A.Maziewski, V.Zabłotskii and M.Kisielewski, Geometry-driven out-of-plane magnetization states in nanostructure, *Phys.Rev. B* **73** (2006) 134415.
27. K.Nygård, M.Hakala, S.Manninen, A.Andrejczuk, M.Ito, Y.Sakurai, L.G.M.Pettersson, K.Hämäläinen, Compton scattering study of water versus ice Ih: Intra- and intermolecular structure, *Phys.Rev. E* **74** (2006) 031503.

28. A.Go, M.Pugaczowa-Michalska, L.Dobrzyński, Electronic structure and the site preference of chromium in Fe<sub>3</sub>Al alloy, *Phys.Stat.Sol. B* **243** (2006) 1241.
29. A.Stupakiewicz, R.Gieniusz, A.Maziewski, K.Postava, L.T.Baczewski, A.Wawro, Magnetic anisotropy changes in ultrathin Co films grown on vicinal sapphire substrates, *Phys.Stat.Sol. B* **243** (2006) 202.
30. A.Wawro, Z.Kurant, L.T.Baczewski, P.Pankowski, J.B.Pelka, A.Maneikis, A.Bojko, V.Zablotskii, A.Maziewski, Structure and magnetic anisotropy evolution in Au/Co/Au sandwiches upon thermal treatment, *Phys.Stat.Sol. C* **1** (2006) 77.
31. M.Kisielewski, A.Maziewski, V.Zablotskii, New spin configurations in nano-sized magnets near reorientation phase transition, *Phys.Stat.Sol. C* **1** (2006) 9.
32. T.Polyakova, V.Zablotskii, Temperature-induced changes of domain structures in ultrathin magnetic films, *Phys.Stat.Sol. C*, **5** (2006) 1316.
33. M.Kisielewski, A.Maziewski, T.Polyakova, V.Zablotskii, Equilibrium and metastable nanoscale domains in ultrathin magnets, *Phys.Stat.Sol. C* **5** (2006) 1333.
34. M.Kisielewski, A.Maziewski, V.Zablotskii, W.Stefanowicz, Micromagnetic simulations and analytical description of magnetic configurations in nanosized magnets, *Physica B* **372** (2006) 316.
35. A.Stupakiewicz, P.Gogol, P.Beauvillain, A.Maziewski, Micromagnetic simulation of magnetization reversal in ultrathin Co magnetic films on Si(111) vicinal substrates, *Physica B* **372** (2006) 354.
36. Y.Sakurai, M.Itou, A.Andrejczuk, A.Kodama, Y.Obiraki, R.Settai, Y.Onuki, Spin-polarized electron momentum density in GdRh<sub>3</sub>B<sub>2</sub>, *Physica B* **378-380** (2006) 1156.
37. K.Szymański, Polarized radiation in Mössbauer spectroscopy, *Physics Reports* **423** (2006) 295.
38. A.Maziewski, W.Dobrogowski, V.Zablotskii, Working towards a global laboratory, *Physics World* **19** (2006) 17.
39. V.Zablotskii, A.Maziewski, T.Polyakova, Thermal-driven evolution of magnetic domain structures in ultrathin films, *Sol.State Phen.* **112** (2006) 101.
40. A.Go, M.Pugaczowa-Michalska and L.Dobrzyński, An influence of the Local Environment on Local Magnetic Moments and Hyperfine Fields in Fe<sub>3-n</sub>Mn<sub>n</sub>A, *Sol.State Phen.* **112** (2006) 117.
41. M.Brancewicz, H.Reniewicz, A.Andrejczuk, L.Dobrzyński, E.Żukowski and S.Kaprzyk, Electron momentum density of hexagonal magnesium studied by Compton scattering, *Sol.State Phen.* **112** (2006) 123.
42. A.Branicki, *Obserwacje i pomiary astronomiczne dla studentów, uczniów i miłośników astronomii*, Wydawnictwo Uniwersytetu Warszawskiego, 2006, 328 stron, ISBN: 83-235-0094-0.