

Spis publikacji pracowników Wydziału Fizyki w roku 2012

1. A.Go, L.Dobrzański, Electronic structure and ordering degree in Fe3Al alloy doped with transition metals. *Ab Initio* study, *Acta Phys.Pol. A* **121** (2012) 1124.
2. K.Rećko, K.Szymański, L.Dobrzański and J.Waliszewski, The Magnetic Properties of GaFeO₃ by Neutron Diffraction and Mössbauer Spectroscopy, *Acta Phys.Pol. A* **122** (2012) 396.
3. T.Accadia, ..., P.Jaranowski, ..., M.Piętka, ..., M.Yvert, Status of the commissioning of the Virgo interferometer, *AIP Conference Proceedings* **1446** (2012) 150-158.
4. A.Stupakiewicz, M.Pashkevich, A.Maziewski, A.Stognij and N.Novitskii, Spin precession modulation in magnetic bilayer, *Appl.Phys.Letters* **101** (2012) 262406.
5. B.Kalska-Szostko, M.Rogowska, A.Dubis, K.Szymański, Enzymes immobilization on Fe₃O₄-gold nanoparticles, *Appl.Surf. Science* **258** (2012) 2783-2787.
6. J.Abadie, ..., P.Jaranowski, ..., M.Piętka, ..., W.Zheng, Implementation and testing of the first prompt search for gravitational wave transients with electromagnetic counterparts, *Astron.Astrophys.* **539** (2012) A124.
7. J.Abadie, ..., P.Jaranowski, ..., M.Piętka, ..., W.Zheng, First low-latency LIGO+Virgo search for binary inspirals and their electromagnetic counterparts, *Astron.Astrophys.* **541** (2012) A155.
8. J.Abadie, ..., P.Jaranowski, ..., M.Piętka, ..., J.Zweizig, Search for gravitational waves associated with gamma-ray bursts during LIGO acience run 6 and VIRGO science runs 2 and 3, *Astrophys.J.* **760** (2012) 12 (18pp).
9. P.A.Evans, ..., P.Jaranowski, ..., J.Zweizig, Swift follow-up observations of candidate gravitational-wave transient events, *Astrophys.J. Suppl. Series* **203** (2012) 28 (14pp).
10. T.Accadia, ..., P.Jaranowski, ..., M.Piętka, ..., J.P.Zendri, Characterization of the Virgo seismic environment, *Class. Quantum Grav.* **29** (2012) 025005.
11. T.Accadia, ..., P.Jaranowski, ..., M.Piętka, ..., J.-P.Zendri, Data quality studies of enhanced interferometric gravitational wave detectors, *Class. Quantum Grav.* **29** (2012) 124010 (11pp).
12. , T.Accadia, ..., P.Jaranowski, ..., M.Piętka, ..., J.-P.Zendri, Resent results for the search of continuous waves with the LIGO and Virgo detectors, *Class. Quantum Grav.* **29** (2012) 124011 (10pp).
13. T.Accadia, ..., P.Jaranowski, ..., M.Piętka, ..., J.-P.Zendri, Astronomy and astrophysics with gravitational waves in the advanced detector era, *Class. Quantum Grav.* **29** (2012) 124012 (13pp).
14. A.Aasi, ...P.Jaranowski, ..., J.Zweizig, The characterization of Virgo data and its impact on gravitational-wave searches, *Class. Quantum Grav.* **29** (2012) 155002.
15. J.L.Cieśliński, B.Ratkiewicz, Discrete gradient algorithms of high order for one-dimensional systems, *Comput.Phys.Commun.* **183** (2012) 617-627.
16. G.Labeyrie, T.Karpiuk, J.-F.Schaff, B.Gremaud, Ch.Miniatura and D.Delande, Enhanced backscattering of a dilute Bose-Einstein condensate, *EPL (Europhysics Letters)*, **100** (2012) 66001.
17. A.Chizik, A.Stupakiewicz, A.Zhukov, A.Maziewski and J.Gonzalez, High-Frequency Electric Current Influence on Magnetization Reversal and Domain Structure in Co-Rich Amorphous Microwires, *IEEE T.Magn.* **48** (2012) 3800.
18. M.Pashkevich, A.Stupakiewicz, A.Kirilyuk, A.Maziewski, A.Stognij, N.Novitskii, A.Kimel, Th.Rasing, Tunable magnetic properties in ultrathin Co/garnet heterostructures, *J.Appl.Phys.* **111** (2012) 023913.
19. T.Accadia, ..., P.Jaranowski, ..., M.Piętka, ..., Z.Zhang, Virgo: a laser interferometer to detect gravitational waves, *J.Instrum.* **7** (2012) P03012.
20. A.Go, K.Rećko, L.Dobrzański, J.J.Milczarek, M.Biernacka, Site preference and magnetism of Fe_{3-x}Cr_xAl_{0.5}Si_{0.5}, *J.Magn.Magn.Mater.* **324** (2012) 2442-2451.
21. J.L.Cieśliński, New definitions of exponential, hyperbolic and trigonometric functions, *J.Math.Anal.Appl.* **388** (2012) 8-22.
22. K.Rećko, D.Satuła, L.Dobrzański, M.Biernacka, J.Waliszewski, A.Go, J.J.Milczarek, Magnetic and structural properties of Fe_{3-x}Cr_xAl_{0.5}Si_{0.5}, *J.Phys.:Conf.Series* **340** (2012) 012070.
23. T.Accadia, ..., P.Jaranowski, ..., M.Piętka, ..., J.P.Zendri, Noise monitor tools and their application to Virgo data, *J.Phys.:Conf.Series* **363** (2012) 012024.
24. T.Accadia, ..., P.Jaranowski, ..., M.Piętka, ..., J.P.Zendri, The NoEMi (Noise Frequency Event Miner) framework, *J.Phys.:Conf.Series* **363** (2012) 012037.
25. K.Hryńiewicz, M.Nikołajuk and B.Czerny, Probing broad-line region of the weak line quasar SDSS J094533.99+100950.1, *J.Phys.:Conf.Series* **372** (2012) 012060.

26. K.Rećko, A.Go, D.Satuła, M.Biernacka, L.Dobrzyński, J.Waliszewski, J.J.Milczarek, and K.Szymański, Magnetic moments and hyperfine parameters of $\text{Fe}_{3-x}\text{Cr}_x\text{Al}_{0.5}\text{Si}_{0.5}$, *J.Phys.Soc.Japan* **81** (2012) 044713.
27. K.Perzyńska, K.Szymański, M.Biernacka, A.Go, W.Olszewski, D.Oleszczuk, K.Rećko, J.Waliszewski, P.Zaleski, L.Dobrzyński, Electric and magnetic properties of bcc Fe based multicomponent alloy, *J.Phys.Soc.Japan* **81** (2012) 064715.
28. P.Jaranowski, A.Królak, Gravitational-Wave Data Analysis. Formalism and Sample Applications: The Gaussian Case, *Living Rev.Relativ.* **15** (2012) 4.
29. M.Nikołajuk and R.Walter, The environment of weak emission-line quasars, *Mon. Not. R. Astron. Soc.* **420** (2012) 2518-2525.
30. P.Kuświk, I.Sveklo, B.Szymański, M.Urbaniak, F.Stobiecki, A.Ehresmann, D.Engel, P.Mazalski, A.Maziewski and J.Jagielski, Colloidal domain lithography in multilayers with perpendicular anisotropy: an experimental study and micromagnetic simulations, *Nanotechnology* **23** (2012) 475303 (9pp).
31. P.Kuświk, F.Stobiecki, B.Szymański, M.Urbaniak, M.Falkowski, J.Jagielski, P.Mazalski, Effect of He ions irradiation on anisotropy and magnetoresistance of $(\text{NiFe}/\text{Au}/\text{Co}/\text{Au})_{10}$ multilayers, *Nucl.Instr.Meth. B* **272** (2012) 88-91.
32. N.Cherroret, T.Karpiuk, C.A.Muller, B.Gremaud, and Ch.Miniatura, Coherent backscattering of ultracold matter waves: Momentum space signatures, *Phys.Rev. A* **85** (2012) 011604(R).
33. J.Pietraszewicz, T.Sowiński, M.Brewczyk, J.Zakrzewski, M.Lewenstein, M.Gajda, Two-component Bose_Hubard model with higher-angular-momentum states, *Phys.Rev. A* **85** (2012) 053638.
34. A.Maziewski, P.Mazalski, Z.Kurant, M.O.Liedke, J.McCord, J.Fassbender, J.Ferre, A.Mougin, A.Wawro, L.T.Baczewski, A.Rogalev, F.Wilhelm, T.Gemming, Tailoring of magnetism in Pt/Co/Pt ultrathin films by iron irradiation, *Phys.Rev. B* **85** (2012) 054427.
35. J.Kisielewski, A.Kirilyuk, A.Stupakiewicz, A.Maziewski, A.Kimel, Th.Rasing, L.T.Baczewski, A.Wawro, Laser-induced manipulation of magnetic anisotropy and magnetization precession in an ultrathin cobalt wedge, *Phys.Rev. B* **85** (2012) 184429.
36. M.Sakamaki, K.Amemiya, M.O.Liedke, J.Fassbender, P.Mazalski, I.Sveklo, A.Maziewski, Perpendicular magnetic anisotropy in a Pt/Co/Pt ultrathin film arising from a lattice distortion induced by iron irradiation, *Phys.Rev. B* **86** (2012) 024418.
37. T.Karpiuk, B.Gremaud, Ch.Miniatura and M.Gajda, Superfluid fountain effect in a Bose_Einstein condensate, *Phys.Rev. B* **86** (2012) 033619.
38. E.Piasecki, W.Czarnacki, N.Keeley, M.Kisieliński, S.Kliczewski, A.Kordyasz, M.Kowalczyk, S.Khlebnikov, E.Koshchii, T.Krogulski, T.Loktev, M.Mutterer, A.Piórkowska, K.Rusek, M.Sillanpaa, A.Staudt, I.Strojek, S.Smirnov, W.H.Trzaska and A.Trzcińska, Weak channels in backscattering of ^{20}Ne on $^{\text{nat}}\text{Ni}$, ^{118}Sn , and ^{208}Pb , *Phys.Rev. C* **85** (2012) 054604 (7 pp).
39. E.Piasecki, Ł.Świderski, N.Keeley, M.Kisieliński, M.Kowalczyk, S.Khlebnikov, T.Krogulski, K.Piasecki, G.Tiourin, M.Sillanpaa, W.H.Trzaska and A.Trzcińska, Smoothing of structure in the fusion and quasielastic barrier distributions for the $^{20}\text{Ne} + ^{208}\text{Pb}$ system, *Phys.Rev. C* **85** (2012) 054608 (6 pp).
40. J.Abadie, ..., P.Jaranowski, ..., M.Piętka, ..., J.Zweizig, All-sky search for periodic gravitational waves in the full S5 LIGO data, *Phys.Rev. D* **85** (2012) 022001.
41. J.Abadie, ..., P.Jaranowski, ..., M.Piętka, ..., J.Zweizig, Search for gravitational waves from low mass compact binary coalescence in LOGO's sixth science run and Virgo's science runs 2 and 3, *Phys.Rev. D* **85** (2012) 082002.
42. J.Abadie, ..., P.Jaranowski, ..., M.Piętka, ..., J.Zweizig, Search for gravitational waves from intermediate mass binary black holes, *Phys.Rev. D* **85** (2012) 102004.
43. J.Abadie, ..., P.Jaranowski, ..., M.Piętka, ..., J.Zweizig, Upper limits on a stochastic gravitational-wave background using LIGO and Virgo interferometers at 600-1000 Hz, *Phys.Rev. D* **85** (2012) 122001.
44. J.Abadie, ..., P.Jaranowski, ..., M.Piętka, ..., J.Zweizig, All-sky search for gravitational-wave bursts in the second joint LIGO-Virgo run, *Phys.Rev. D* **85** (2012) 122007.
45. P.Jaranowski, G.Schafer, Towards the fourth post-Newtonian Hamiltonian for two-point-mass systems, *Phys.Rev. D* **86** (2012) 061503(R).
46. T.Karpiuk, N.Cherroret, K.L.Lee, B.Gremaud, C.A.Muller and C.Miniatura, Coherent Forward Scattering Peak Induced by Anderson Localization, *Phys.Rev. Letters* **109** (2012) 190601.
47. T.Karpiuk, P.Deuar, P.Bienias, E.Witkowska, K.Pawlowski, M.Gajda, K.Rzążewski and M.Brewczyk, Spontaneous Solitons in the Thermal Equilibrium of a Quasi-1D Bose Gas, *Phys.Rev. Letters* **109** (2012) 205302.
48. T.Accadia, ..., P.Jaranowski, ..., M.Piętka, ..., M.Yvert, A thermal compensation system for the gravitational wave detector Virgo, *Proc. of the MG12 Meeting on General Relativity, Paris, 12-18 July 2009* (2012) 1652-1656.
49. T.Accadia, ..., P.Jaranowski, ..., M.Piętka, ..., M.Yvert, Progresses in the realization of a monolithic suspension system in Virgo, *Proc. of the MG12 Meeting on General Relativity, Paris, 12-18 July 2009* (2012) 1657-1661.

- 50.T.Accadia, ..., P.Jaranowski, ..., M.Piętka, ..., M.Yvert, Noise analysis in Virgo: on-line and offline tools for noise characterization, *Proc. of the MG12 Meeting on General Relativity, Paris, 12-18 July 2009* (2012) 1692-1699.
- 51.T.Accadia, ..., P.Jaranowski, ..., M.Piętka, ..., M.Yvert, Plans for the upgrade of the gravitational-wave detector Virgo: advanced Virgo, *Proc. of the MG12 Meeting on General Relativity, Paris, 12-18 July 2009* (2012) 1738-1742.
- 52.E.Liskova, M.Veis, S.Visnovsky, J.Ferre, A.Mougin, P.Mazalski, A.Maziewski, M.O.Liedke, J.Fassbender, Effect of Ga^+ irradiation on the magneto-optic spectra of Pt/Co/Pt sandwiches, *Thin Solid Films* **520** (2012) 7169-7172.
- 53.J.L.Cieśliński, Modified van der Pauw method based on formulas solvable by the Banach fixed point method, *Thin Solid Films* **522** (2012) 314-317.

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