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\*pracovisko autora je uvedené pod čiarou, on leave a pod.

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### 6. Kapitoly vo vedeckých monografiách vydaných v zahraničí

1. BOBIK, P. - BOSCHINI, M. - GRANDI, D. - GERVASI, M. - MICELOTTA, E. - RANCOITA, P.G. A Back-Tracing Code to Study the Magnetosphere Transmission Function for Primary Cosmic Rays. In *The Inner Magnetosphere: Physics and Modeling. Geophysical Monograph*, vol.155. Eds. T.I.Pulkkinen, N.A. Tsyganenko, R.H.W. Friedel. Washington: American Geophysical Union, 2005. p.301-305.

### 9. Vedecké práce v časopisoch evidovaných

#### a/ v Current Contents

2. \*\* ŠÁNDOR, L. for NA57 Collaboration (-...- BOMBARA, M. -...- JUSKO, A. -...- KRÁLIK, I. -...- PASTIRČÁK, B. -...- ŠAFARÍK, K. -...- ŠÁNDOR, L. -...-) Results on hyperon production from the NA57 experiment. In *Acta Physica Hungarica A – Heavy Ion Physics*. Vol.22, no.1-2 (2005), p.113-120. e-Print Archive: nucl-ex/0404030. ( 0.154 - IF2005)
3. \*\* HILLER, K. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Diffraction at HERA. In *Acta Physica Polonica B*. Vol.35, no.1 (2004), p.447-464. (0.687 - IF2004)
4. \*\* GLASMAN, C. for ZEUS and H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Jet production at HERA. 34th International Symposium on Multiparticle Dynamics, Sonoma County, California, USA, July 26 -August 1, 2004. In *Acta Physica Polonica B*. Vol.36, no.2 (2005), p.441-449. (0.807 - IF2005)
5. ČLOVEČKO, M. - HANUŠIN, T. - KRÁL, M. - SKYBA, P. Vibrating wire a probe for the energy gap measurement in Superfluid <sup>3</sup>He-B. In *Acta Physica Slovaca*. Vol.54, no.6 (2004), p.525-533. (0.513 - IF2004)
6. \*\* VÁZQUEZ, M. for ZEUS, H1, HERMES and HERA-B Collaborations (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Exotic Hadronic States at HERA. HS 2004: Proceedings of the International Conference on Hadron Structure 2004, 30 Aug - 3 Sep 2004, Smolenice Castle, Slovakia. In *Acta Physica Slovaca*. Vol.55, no.1 (2005), p.109-118. hep-ex/0411045. (0.359 - IF2005)
7. SIBECK, D.G. - KUDELA, K. - MUKAI, T. - NEMEČEK, Z. - ŠAFRÁNKOVÁ, J. Radial dependence of foreshock cavities: a case study. In *Annales Geophysicae*. Vol.22, no.12 (2004), p.4143-4151. (1.610 - IF2004)

8. PASMNIK, D.L. - TITOVA, E.E. - DEMEKHOV, A.G. - TRAKHTENGERC, A.G. - SANTOLIK, O. - JIRICEK, F. - KUDELA, K. - PARROT, M. Quasi-periodic ELF/VLF wave emissions in the Earth's magnetosphere: comparison of satellite observations and modeling. In *Annales Geophysicae*. Vol.22, no.12 (2004), p.4351-4361. (1.610 - IF2004)
9. BUČÍK, R. - KUDELA, K. - KUZNETSOV, S.N. - MYAGKOVA, I.N. Gamma rays in L-B coordinates at CORONAS-I altitude. In *Annales Geophysicae*. Vol.23, no.6 (2005), p.2239-2247. (1.450 - IF2005)
10. ANTALÍK, M. - JANCURA, D. - PALMER, G. - FABIAN, M. A Role for the Protein in Internal Electron Transfer to the Catalytic Center of Cytochrome c Oxidase. In *Biochemistry*. Vol.44, no.45 (2005), p.14881-14889. (3.848 - IF2005)
11. MITRŮOVÁ, Z. - MIHALIK, M. - ZENTKO, A. - BOKOR, M. - KAMARÁS, K. - KAVEČANSKÝ, V. - KOVÁČ, J. - CSACH, K. - TRPČEVSKÁ, J. Synthesis, Structural and Magnetic Properties of  $\text{TM}^{2+}_2[\text{Mo}^{\text{IV}}(\text{CN})_8] \cdot n\text{H}_2\text{O}$ . In *Ceramics – Silikáty*. Vol.49, no.3 (2005), p.181-187. (0.463 - IF2005)
12. HNATICH, M. - JURČIŠIN, M. - REPAŠAN, M. Toy models of developed turbulence. In *Condensed Matter Physics*. Vol.8, no.1 (2005), p.123-133. (- IF2005)
13. MINAROVJECH, M. - RUŠIN, M. - RYBANSKÝ, M. - KUDELA, K. - KOLLÁR, V. An approach to space weather studies from ground based observations. In *Contributions of the Astronomical Observatory Skalnaté Pleso*. Vol.34, no.3 (2004), p.197-203. (- IF 2004)
14. MAREK, J. - DEMJÉNOVÁ, E. - TOMORI, Z. - JANÁČEK, J. - ZOLOTOVA, I. - VALLE, F. - FAVRE, M. - DIETLER, G. Interactive measurement and characterization of DNA molecules by analysis of AFM images. In *Cytometry A*. Vol.63A, no.2, (2005), p.87-93. (2.115 - IF2005)
15. BAŤKO, I. - BAŤKOVÁ, M. Calorimetric tunneling study of heat generation in metal-vacuum-metal tunnel junctions. In *European Physical Journal – Applied Physics*. Vol.31, no.3 (2005), p.191-194. (0.546 - IF2005)
16. FARKAŠOVSKÝ, P. - ČENČARIKOVÁ, H. - TOMAŠOVIČOVÁ, N. Ground-states of the three-dimensional Falicov-Kimball model. In *European Physical Journal B*. Vol.45, no.4 (2005), p.479-484. (1.720 - IF2005)
17. FARKAŠOVSKÝ, P. - ČENČARIKOVÁ, H. Ground states of the generalized Falicov-Kimball model in one and two dimensions. In *European Physical Journal B*. Vol.47, no.4 (2005), p.517-526. (1.720 - IF2005)
18. H1 Collaboration (AKTAS, A. -...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Measurement of Prompt Photon Cross Sections in Photoproduction at HERA. Preprint DESY-04-118. In *European Physical Journal C*. Vol.38, no.4 (2005), p.437-445. hep-ex/0407018. (3.209 - IF2005)
19. H1 Collaboration (AKTAS, A. -...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Inclusive production of  $D^+$ ,  $D^0$ ,  $D^+(S)$  and  $D^{*+}$  mesons in deep inelastic scattering at HERA. Preprint DESY-04-156. In *European Physical Journal C*. Vol.38, no.4 (2005), p.447-459. hep-ex/0408149. (3.209 - IF2005)
20. H1 Collaboration (AKTAS, A. -...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Measurement of  $F_2^{\text{cc}}$  and  $F_2^{\text{bb}}$  at high  $Q^2$  using the H1 vertex detector at HERA. Preprint DESY-04-209. In *European Physical Journal C*. Vol.40, no.3 (2005), p.349-359. hep-ex/0411046. (3.209 - IF2005)

21. H1 Collaboration (BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) A Direct Search for Stable Magnetic Monopoles Produced in Positron-Proton Collisions at HERA. In Preprint DESY 04-240. In *European Physical Journal C*. Vol.41, no.2 (2005), p.133-141. hep-ex/0501039. (3.209 - IF2005)
22. H1 Collaboration (AKTAS, A. -...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Measurement of dijet cross sections in ep interactions with a leading neutron in HERA. Preprint DESY-04-247. In *European Physical Journal C*. Vol.41, no.3 (2005), p.273-286. hep-ex/0501074. (3.209 - IF2005)
23. H1 Collaboration (AKTAS, A.-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Measurement of Beauty Production at HERA Using Events with Muons and Jets. Preprint DESY-05-004. In *European Physical Journal C*. Vol.41, no.4 (2005), p.453-467. hep-ex/0502010. (3.209 - IF2005)
24. H1 Collaboration (AKTAS, A. -...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...- TOMASZ, F. -...-) Measurement of deeply virtual Compton scattering at HERA. Preprint DESY-05-065. In *European Physical Journal C – Particles and Fields*. Vol.44, no. 1 (2005), p. 1-11. hep-ex/0505061. (3.206 - IF2005)
25. H1 Collaboration (AKTAS, A. -...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...- TOMASZ, F. -...-) Measurement of  $F^{\bar{c}}_2$  and  $F^{\bar{b}}_2$  at Low  $Q^2$  and x using the H1 vertex Detector at HERA. Preprint DESY-05-110. In *European Physical Journal C*. Vol.45, no.1 (2005), p.23-33. hep-ex/0507081. (3.206 - IF2005)
26. ERMOLAEV, Yu.I. - ZELENYI, L.M. - ZASTENKER, G.N. - PETRUKOVICH, A.A. - MITROFANOV, I.G. - LITVAK, M.L. - VESELOVSKY, I.S. - PANASYUK, M.I. - LAZUTIN, L.L. - DMITRIEV, A.V. - ZHUKOV, A.N. - KUZNETSOV, S.N. - MYAGKOVA, I.N. - YUSHKOV, B.Yu. - KURT, V.G. - GNEZDILOV, A.A. - GORGUTSA, R.V. - MARKEEV, A.K. - SOBOLEV, D.E. - FOMICHEV, V.V. - KUZNETSOV, V.D. - BOLDYREV, S.I. - CHERTOK, I.M. - BOYARCHUK, K.A. - KRASHENINNIKOV, I.V. - KOLOMIITSEV, O.P. - LESHCHENKO, L.N. - BELOV, A.V. - GAIDASH, S.P. - KANONIDI, Kh.D. - BOGACHEV, S.A. - ZHITNIK, I.A. - IGNAT'EV, A.P. - KUZIN, S.V. - OPARIN, S.N. - PERTSOV, A.A. - SELEMZIN, V.A. - SUKHODREV, N.K. - SHESTOV, S.V. - VLASOV, V.I. - CHASHEI, I.V. - VASHENYUK, E.V. - SAKHAROV, Ya.A. - DANILIN, A.N. - BOGOD, V.M. - TOKHCHUKOVA, S.Kh. - MIKHALEV, A.V. - BELETSKII, A.B. - KOSTYLEVA, N.V. - CHERNIGOVS KAYA, M.A. - GRECHNEV, V.V. - KUDELA, K. Solar and Heliospheric Disturbances that Resulted in the Strongest Magnetic Storm of November 20, 2003. In *Geomagnetism and Aeronomy*. Vol.45, no.1 (2005), p.20-46 = *Geomagnetizm i Aeronomyia*. Vol.45, no.1 (2005), p.23-50. (0.390 - IF2005)
27. FARKAŠOVSKÝ, P. - ČENČARIKOVÁ, H. Valence and metal-insulator transitions in the spinless Falicov-Kimball model induced by doping. In *International Journal of Modern Physics B*. Vol.19, no.23 (2005), p.3603-3612. (0.381 - IF2005)
28. FEDURCO, M. - AUGUSTYNSKI, J. - INDIANI, C. - SMULEVICH, G. - ANTALÍK, M. - BÁNÓ, M. - SEDLÁK, E. - GLASCOCK, M.C. - DAWSON, J.H. Electrochemistry of Unfolded Cytochrome c in Neutral and Acidic Urea Solutions. In *Journal of the American Chemical Society*. Vol.127, no.20 (2005), p.7638-7646. (7.419 - IF2005)
29. KUDELA, K. - STORINI, M. Cosmic ray variability and geomagnetic activity: A statistical study. In *Journal of Atmospheric and Solar-Terrestrial Physics*. Vol.67, no.10 (2005), p.907-912. (1.309 - IF2005)

30. SEDLÁK, M. Real-time monitoring of the origination of multimacroin domains in a polyelectrolyte solution. In *Journal of Chemical Physics*. Vol.122, no.5 (2005), p.151102-1-3. (3.138 - IF2005)
31. BRADLEY, D.I. - FISHER, S.N. - GUÉNAULT, A.M. - MATTHEWS, C.J. - SKYBA, P. - PICKETT, G.R. - ZAKI, K.L. The Thermal Damping of an Aerogel Resonator in Superfluid  $^3\text{He-B}$  at Ultra Low Temperatures. In *Journal of Low Temperature Physics*. Vol.138, Sp. Iss. SI, no.1/2 (2005), p.123-128. (0.753 - IF2005)
32. BRADLEY, D.I. - FISHER, S.N. - GUÉNAULT, A.M. - HALEY, R.P. - MULDER, N. - PICKETT, G.R. - SKYBA, P. - WHITEHEAD, R.C.V. Preliminary Measurements on Coupling Between Superfluid  $^3\text{He}$  and Kapton or Aerogel in the Low Temperature Limit. In *Journal of Low Temperature Physics*. Vol.138, Sp. Iss.SI, no.1/2 (2005), p.129-134. (0.753 - IF2005)
33. FISHER, S.N. - GUÉNAULT, A.M. - MATTHEWS, C.J. - SKYBA, P. - PICKETT, G.R. - ZAKI, K.L. Coherent Spin Precession in Superfluid  $^3\text{He-B}$  Excited in a Field Minimum at Low Temperatures. In *Journal of Low Temperature Physics*. Vol.138, Sp. Iss. SI, no.3/4 (2005), p.777-782. (0.753 - IF2005)
34. FLACHBART, K. - GABÁNI, S. - GLOOS, K. - MEISSNER, M. - OPEL, M. - PADERNO, Y. - PAVLÍK, V. - SAMUELY, P. - SCHUBERTH, E. - SHITSEVALOVA, N. - SIEMENSMEYER, K. - SZABÓ, P. Low Temperature Properties and Superconductivity of  $\text{LuB}_{12}$ . In *Journal of Low Temperature Physics*. Vol.140, no.5/6, p.339-353. (0.753 - IF2005)
35. KOPČANSKÝ, P. - TIMKO, M. - POTOČOVÁ, I. - KONERACKÁ, M. - JURÍKOVÁ, A. - TOMAŠOVIČOVÁ, N. - ŠTELINA, J. - MUSIL, C. - BRACINÍK, J. The determination of the hydrodynamic diameter of magnetic particles using FRS experiment. ICMF 10: Proceedings of the 10th International Conference on Magnetic Fluids, 2 - 6 August 2004, Sao Paolo, Brazil. In *Journal of Magnetism and Magnetic Materials*. Vol.289 (2005), p.97-100. (0.985 - IF2005)
36. KOPČANSKÝ, P. - POTOČOVÁ, I. - KONERACKÁ, M. - TIMKO, M. - JANSEN, A.G.M. - JADZYN, J. - CZECHOWSKI, G. The anchoring of nematic molecules on magnetic particles in some types of ferronematics. ICMF 10: Proceedings of the 10th International Conference on Magnetic Fluids, 2 - 6 August 2004, Sao Paolo, Brazil. In *Journal of Magnetism and Magnetic Materials*. Vol.289 (2005), p.101-104. (0.985 - IF2005)
37. KOPČANSKÝ, P. - HNATIC, M. - REPAŠAN, M. - POTOČOVÁ, I. - TIMKO, M. - TUREK, I. - ŠTELINA, J. - MUSIL, C. - BRACINÍK, J. - AYRJAN, E. - VEKAS, L. - BICA, D. The light-induced structuralization in magnetic fluids with negative Soret constant. ICMF 10: Proceedings of the 10th International Conference on Magnetic Fluids, 2 - 6 August 2004, Sao Paolo, Brazil. In *Journal of Magnetism and Magnetic Materials*. Vol.289 (2005), p.292-294. (0.985 - impakt faktor r. 2005)
38. KOPČANSKÝ, P. - TOMČO, L. - MARTON, K. - KONERACKÁ, M. - TIMKO, M. - POTOČOVÁ, I. The DC dielectric breakdown strength of magnetic fluids based on transformer oil. ICMF 10: Proceedings of the 10th International Conference on Magnetic Fluids, 2 - 6 August 2004, Sao Paolo, Brazil. In *Journal of Magnetism and Magnetic Materials*. Vol.289 (2005), p.415-418. (0.985 - IF2005)
39. MITO, T. - SHIMOIDE, M. - KOYAMA, T. - NAKAMURA, M. - WADA, S. - REIFFERS, M. - IDZIKOWSKI, B. - SARRAO, J.L. - KOBARASHI, T.C. Pressure effect on the magnetic properties in  $\text{YbXCu}_4$  (X = In and Cu). JEMS'04: Proceedings of the Joint European Magnetic Symposia, Dresden, Germany, September 5 - 10, 2004. Ed.

- O.Gutfleisch, V.N.Narozhnyi, U.Nowak, T.Schrefl, M.Ziese. In *Journal of Magnetism and Magnetic Materials*. Vol.290-291, Part 1 (2005), p.405-407. (0.985 - IF2005)
40. MIHALIK, M.Jr. - SVOBODA, P. - MIHALIK, M. - VEJPRAVOVÁ, J. - SECHOVSKÝ, V. Magnetic and transport properties of GdFe<sub>2</sub>Si<sub>2</sub> single-crystal. JEMS '04: Proceedings of the Joint European Magnetic Symposia, Dresden, Germany, September 5 - 10, 2004. Ed. O.Gutfleisch, V.N.Narozhnyi, U.Nowak, T.Schrefl, M.Ziese. In *Journal of Magnetism and Magnetic Materials*. Vol.290-291, Part 1 (2005), p.606-608. (0.985- IF2005)
  41. SVOBODA, P. - MIHALIK, M.Jr. - MIHALIK, M. - VEJPRAVOVÁ, J. - RUSZ, J. Specific heat analysis of heavy REFe<sub>2</sub>Si<sub>2</sub> compounds. JEMS'04: Proceedings of the Joint European Magnetic Symposia, Dresden, Germany, September 5 - 10, 2004. Ed. O.Gutfleisch, V.N.Narozhnyi, U.Nowak, T.Schrefl, M.Ziese. In *Journal of Magnetism and Magnetic Materials*. Vol.290-291, Part 1 (2005), p.609-611. (0.985- IF2005)
  42. WÓJCIK, M. - JĘDRYKA, E. - ŠKORVÁNEK, I. - ŠVEC, P. Magnetic properties of nanocrystalline HITPERM alloys studied by <sup>60</sup>Co NMR. JEMS'04: Proceedings of the Joint European Magnetic Symposia, Dresden, Germany, September 5 - 10, 2004. Ed.- O.Gutfleisch, V.N.Narozhnyi, U.Nowak, T.Schrefl, M.Ziese. In *Journal of Magnetism and Magnetic Materials*. Vol.290-291 (2005), p.1431-1433. (0.985- IF2005)
  43. KONERACKÁ, M. - KOPČANSKÝ, P. - SOSA, P. - BÁGELOVÁ, J. - TIMKO, M. Interliposomal transfer of crystal violet dye from DPPC liposomes to magnetoliposome. In Proceedings of the 5<sup>th</sup> International Conference on Scientific and Clinical Applications of Magnetic Carriers, 20 - 22 May 2004. In *Journal of Magnetism and Magnetic Materials*. Vol.293, no.1 (2005), p.271-276. (0.985 - IF2005)
  44. MARSALA, M. - HEFFERAN, M.P. - KAKINOHANA, O. - NAKAMURA, S. - MARSALA, J. - TOMORI, Z. Measurement of Peripheral Muscle Resistance in Rats with Chronic Ischemia-Induced Paraplegia or Morphine-Induced Rigidity Using a Semi-Automated Computer-Controlled Muscle Resistance Meter. In *Journal of Neurotrauma*. Vol.22, no.11 (2005), p.1348-1361. (2.574 - IF2005)
  45. \*\* BRUNO, G.E. for NA57 Collaboration (-...- BOMBARA, M. -...- JUSKO, A. -...- KRÁLIK, I. -...- PASTIRČÁK, B. -...- ŠAFARÍK, K. -...- ŠÁNDOR, L. -...-) Blast-wave analysis of strange particle mt spectra in Pb-Pb collisions at the SPS. In *Journal of Physics G: Nuclear and Particle Physics*. Vol.31, no.4 (2005), p.S127-134. (2.173 - IF2005)
  46. \*\* ELIA, D. for NA57 Collaboration (-...- BOMBARA, M. -...- JUSKO, A. -...- KRÁLIK, I. -...- PASTIRČÁK, B. -...- ŠAFARÍK, K. -...- ŠÁNDOR, L. -...-) Strange particle production in 158 and 40 A GeV/c Pb-Pb and p-Be collisions. In *Journal of Physics G: Nuclear and Particle Physics*. Vol.31, no.4 (2005), p. S135-140. (2.173 - IF2005)
  47. NA57 Collaboration (ANTINORI, F. -...- BOMBARA, M. -...- JUSKO, A. -...- KRÁLIK, I. -...- PASTIRČÁK, B. -...- ŠAFARÍK, K. -...- ŠÁNDOR, L. -...-) Multiplicity of charged particles in Pb-Pb collisions at SPS energies. In *Journal of Physics G: Nuclear and Particle Physics*. Vol.31, no.5 (2005), p.321-335. (2.173 - IF2005)
  48. \*\* ŠÁNDOR, L. for NA57 Collaboration (-...- BOMBARA, M. -...- JUSKO, A. -...- KRÁLIK, I. -...- PASTIRČÁK, B. -...- ŠAFARÍK, K. -...- ŠÁNDOR, L. -...-) Results on strangeness production from the NA57 experiment. SQM2004: 8th International Conference on Strangeness in Quark Matter, 15 - 20Sep 2004, Cape Town, South Africa.

- Eds. J.Cleymans, P. Steinberg, Z.Vilakazi. In *Journal of Physics G: Nuclear and Particle Physics*. Vol.31, no.6 (2005), p. S919-S927. (2.173 - IF2005)
49. NA57 Colaboration (ANTINORI, F. -...- BOMBARA, M. -...- JUSKO, A. -...- KRÁLIK, I. -...- PASTIRČÁK, B. -...- ŠAFARÍK, K. -...- ŠÁNDOR, L. -...-) Rapidity distributions around mid-rapidity of strangenparticles in Pb-Pb collisions at 158 A GeV/c. In *Journal of Physics G: Nuclear and Particle Physics*. Vol. 31, no. 11 (2005), p. 1345-1357. (2.173 - IF2005)
  50. NILSSON, P. - ANELLI, G. - ANTINORI, F. - BOCCARDI, A. - BURNS, M. - CALI, IA. - CAMPBELL, M. - CASELLE, M. - CHOCHULA, P. - CINAUSERO, M. - DALESSANDRO, A. - DIMA, R. - DINAPOLI, R. - ELIA, D. - EN'YO, H. - FABRIS, D. - FINI, R. - FIORETTO, E. - FORMENTI, F. - FUJIWARA, K. - HEUSER, J.M. - KANO, H. - KAPUSTA, S. - KLUGE, A. - KRIVDA, M. - LENTI, V. - LIBRIZZI, F. - LUNARDON, M. - MANZARI, V. - MOREL, M. - MORETTO, S. - OHNISHI, H. - GINER, A.O. - OSMIC, F. - PAPPALARDO, G.S. - PEPATO, A. - PRETE, G. - RIEDLER, P. - SANTORO, R. - SCARLASSARA, F. - SEGATO, G. - SORAMEL, F. - STEFANINI, G. - TANIDA, K. - TAKETANI, A. - TURRISI, R. - VANNUCCI, L. - VIESTI, G. - VIRGILI, T. Test beam performance of the ALICE silicon pixel detector. VCI 2004: Proceedings of the 10th Vienna Conference on Instrumentation, Vienna, Austria, February 16-21, 2004. Eds.M.Jeitler, M.Krammer, M.Regler, G.Badurek. In *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*. Vol.535, no.1-2 (2005), p.424-427. (1.224 - IF2005)
  51. RIEDLER, P. - ANELLI, G. - ANTINORI, F. - BOCCARDI, A. - BURNS, M. - CALI, IA. - CAMPBELL, M. - CASELLE, M. - CHOCHULA, P. - CINAUSERO, M. - DALESSANDRO, A. - DIMA, R. - DINAPOLI, R. - ELIA, D. - FABRIS, D. - FINI, R. - FIORETTO, E. - KAPUSTA, S. - KLUGE, A. - KRIVDA, M. - LENTI, V. - LIBRIZZI, F. - LUNARDON, M. - MANZARI, V. - MOREL, M. - MORETTO, S. - NILSSON, P. - GINER, A.O. - OSMIC, F. - PAPPALARDO, G.S. - PEPATO, A. - PRETE, G. - SANTORO, R. - SCARLASSARA, F. - SEGATO, G. - SORAMEL, F. - STEFANINI, G. - TURRISI, R. - VANNUCCI, L. - VIESTI, G. - VIRGILI, T. Recent test results of the ALICE silicon pixel detector. VERTEX 2003: 12th International workshop on vertex detectors, Lake Windermere, UK, September 14-19, 2005. Ed.S.J.Watts. In *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*. Vol.549, no.1-3 (2005), p.65-69. (1.224 - IF2005)
  52. \*\* OZEROV, D. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Spectroscopy in epcollisions at HERA. BARYONS 04: 10th International Conference on the Structure of Baryons, October 25 - 29, 2004, Palaiseau, France. Eds. M.Guidal, F.Kunne, B.Pire, M.Soyeur. In *Nuclear Physics A*. Vol.755 (2005), p.383c-386c. hep-ex/0502018. (1.950 - IF2005)
  53. \*\* VALKÁROVÁ, A. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Photon structure as revealed in ep collisions. PHOTON 2003: International Conference on the Structure and Interactions of the Photon and 15th International Workshop on Photon-Photon Collisions, 7 - 11 Apr 2003, Frascati, Italy. In *Nuclear Physics B – Proceedings Supplements*. Vol.126 (2004), p.22-27. (0.944 - IF2004)
  54. \*\* MASTROBERARDINO, A. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Inclusive diffraction in ep collisions. . PHOTON 2003: International Conference on the Structure and Interactions of the Photon and 15th International Workshop on Photon-Photon Collisions, 7 - 11 Apr 2003, Frascati,

- Italy. In *Nuclear Physics B – Proceedings Supplements*. Vol.126 (2004), p.65-70. (0.944 - IF2004)
55. \*\* LEISSNER, B. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Multi-Lepton Production in ep Collisions at HERA. PHOTON 2003: International Conference on the Structure and Interactions of the Photon and 15th International Workshop on Photon-Photon Collisions, 7 - 11 Apr 2003, Frascati, Italy. In *Nuclear Physics B – Proceedings Supplements*. Vol.126 (2004), p.152-157. (0.944 - IF2004)
  56. \*\* KARSHON, U. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Open charm production at HERA. PHOTON 2003: International Conference on the Structure and Interactions of the Photon and 15th International Workshop on Photon-Photon Collisions, 7 - 11 Apr 2003, Frascati, Italy. In *Nuclear Physics B – Proceedings Supplements*. Vol.126 (2004), p.179-184. (0.944 - IF2004)
  57. \*\* KROSEBERG, J. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Beauty in ep collisions. PHOTON 2003: International Conference on the Structure and Interactions of the Photon and 15th International Workshop on Photon-Photon Collisions, 7 - 11 Apr 2003, Frascati, Italy. In *Nuclear Physics B – Proceedings Supplements*. Vol.126 (2004), p.191-196. (0.944 - IF2004)
  58. \*\* BARBI, M. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Vector meson production and inclusive (KsKsO)-K-O final state at HERA. PHOTON 2003: International Conference on the Structure and Interactions of the Photon and 15th International Workshop on Photon-Photon Collisions, 7 - 11 Apr 2003, Frascati, Italy. In *Nuclear Physics B – Proceedings Supplements*. Vol.126 (2004), p.237-242. (0.944 - IF2004)
  59. \*\* LONGHIN, A. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Heavy flavour production in ep collisions. Proceedings of the 10th High-Energy International Conference on Quantum ChromoDynamics, Montpellier, France, 02 - 09 July 2003. In *Nuclear Physics B – Proceedings Supplements*. Vol.133 (2005), p.144-149. (0.875 - IF2005)
  60. KOPELIOVICH, B.Z. - NEMCHIK, J. - POTASHNIKOVA, I.K. - JOHNSON, M.B. - SCHMIDT, I. Large rapidity gap reactions on nuclei: breakdown of QCD factorization. Diffraction 2004: Proceedings of the International Workshop on Diffraction in High-Energy Physics, Cala Gonone, Sardinia, Italy, 18 - 23 September 2004. In *Nuclear Physics B – Proceedings Supplements*. Vol.146 (2005), p.171-176. (0.875 - IF2005)
  61. MIHALIK, M.Jr. - MIHALIK, M. - SECHOVSKÝ, V. Electrical transport and magnetism in CeFe<sub>2</sub>Si<sub>2</sub> single crystal. SCES '04: Proceedings of the International Conference on Strongly Correlated Electron Systems, 26 - 30 July 2004, Karlsruhe, Germany. Eds. H.von Löhneysen, G.Goll, C.Sürgers, C.Pfleiderer, M.Uhlarz. In *Physica B: Condensed Matter*. Vol.359-361 (2005), p.163-165. (0.796 - IF2005)
  62. FARKAŠOVSKÝ, P. The influence of nonlocal hybridization on ground-state properties of the Falicov-Kimball model. SCES '04: Proceedings of the International Conference on Strongly Correlated Electron Systems, 26 - 30 July 2004, Karlsruhe, Germany. Eds. H.von Löhneysen, G.Goll, C.Pfleiderer, C.Sürgers, M.Uhlarz. In *Physica B*. Vol.359-361, (2005), p.687-689. (0.796 - IF2005)
  63. ČENČARIKOVÁ, H. - FARKAŠOVSKÝ, P. Ground states of the two dimensional Falicov-Kimball model with correlated hopping. SCES '04: Proceedings of the

- International Conference on Strongly Correlated Electron Systems, 26 - 30 July 2004, Karlsruhe, Germany. Eds. H.von Löhneysen, G.Goll, C.Pfleiderer, C.Sürgers, M.Uhlarz. In *Physica B*. Vol.359-361, (2005), p.690-692. (0.796 - IF2005)
64. KAČMARČÍK, J. - MARCENAT, - CYTERMANN, C. – FERREIRA da SILVA, A. – ORTEGA, L. – GUSTAFSSON, F. MARCUS, J. – KLEIN, T. – GHEERAERT, E. – BUSTARRET, E. Superconductivity in boron-doped homoepitaxial (001) – oriented diamond layers. In *Physica status solidi (a)*. Vol. 202, no.11 (2005), p.2160-2165. (1.041 - IF2005)
  65. ČENČARIKOVÁ, H. - FARKAŠOVSKÝ, P. The influence of correlated hopping on the ground-state properties of the two-dimensional Falicov-Kimball model. In *Physica status solidi (b) – Basic Solid State Physics*. Vol.242, no.10 (2005), p.2061-2067. (0.836 - IF2005)
  66. KOPELIOVICH, B.Z. - NEMCHIK, J. - POTASHNIKOVA, I.K. - JOHNSON, M.B. - SCHMIDT, I. Breakdown of QCD factorization at large Feynman x. Preprint USM-TH-166. In *Physical Review C*. Vol.72, no.5 (2005), p.054606-1-11. hep-ph/0501260. (3.610 - IF2005)
  67. HNATICH, M. - HONKONEN, J. - JURČIŠIN, M. - MAZINO, A. - ŠPRINC, S. Anomalous scaling of passively advected magnetic field in the presence of strong anisotropy. In *Physical Review E*. Vol.71, no. 6 (2005), p.066312-1-15. (2.418 - IF2005)
  68. SAMUELY, P. - SZABÓ, P. - CANFIELD, P.C. - BUĎKO, S.L. Comment on "Band Filling and Interband Scattering Effects in MgB<sub>2</sub>: Carbon versus Aluminium Doping". In *Physical Review Letters*. Vol.95, no.9 (2005), p.099701-1-1. (7.489 - IF2005)
  69. PINČÁK, R. Spheroidal geometry approach to fullerene molecules. In *Physics Letters A*. Vol.340, no.1-4 (2005), p.267-274. (1.550 - IF2005)
  70. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEL, J. -...- MURÍN, P. -...-) Search for Light Gravitinos in Events with Photons and Missing Transverse Momentum at HERA. Preprint DESY 04-227. In *Physics Letters B*. Vol.616, no.1-2 (2005), p.31-42. hep-ex/0501030. Short communication. (5.301 - IF2005)
  71. H1 Collaboration (AKTAS, A. -...- BRUNCKO, D. -...- FERENCEL, J. -...- MURÍN, P. -...-) Measurement of Charm and Beauty Photoproduction at HERA using D\*/muCorrelations. Preprint DESY-05-040. In *Physics Letters B*. Vol. 621, no.1-2 (2005), p.56-71. hep-ex/0503038. ( 5.301 - IF2005)
  72. NA57 Collaboration (ANTINORI, F. -...- BOMBARA, M. -...- JUSKO, A. -...- KRÁLIK, I. -...- PASTIRČÁK, B. -...- ŠAFARÍK, K. -...- ŠÁNDOR, L. -...-) Central-to-peripheral nuclear modification factors in Pb-Pb collisions at  $\sqrt{s_{NN}} = 17.3$  GeV. In *Physics Letters B*. Vol.623, no.1-2 (2005), p.17-25. Short communication. (5.301 - IF2005)
  73. H1 Collaboration (AKTAS, A. -...- BRUNCKO, D. -...- FERENCEL, J. -...- MURÍN, P. -...- TOMASZ, F. -...-) Search for Leptoquark Bosons in ep collisions at HERA. Preprint DESY-05-087. *Preprint DESY-05-087*. In *Physics Letters B*. Vol. 629, no. 1 (2005), p. 9-19. hep-ex/0506044. (5.301 - IF2005)
  74. KUDELA, K. - LUTSENKO, V.N. - SARRIS, E.T. - SIBECK, D.G. - SLIVKA, M. DOK-2 ion fluxes upstream from the bow shock: characteristics from 4 years of Interball-1 measurements. In *Planetary and Space Science*. Vol.53, no.1-3 (2005), p.59-64. Special Issue: Dynamics of the Solar Wind-Magnetosphere Interaction. (1.408 - IF 2005 )



75. PŘECH, L. - ŠAFRÁNKOVÁ, J. - NĚMEČEK, Z. - KUDELA, K. INTERBALL-1 observation of plasma and energetic particle fluxes upstream of the Earth's bow shock. In *Planetary and Space Science*. Vol.53, no.1-3 (2005), p.65-78. Special Issue: Dynamics of the Solar Wind-Magnetosphere Interaction. (1.408 - IF2005)
76. HAYOSH, M. - ŠAFRÁNKOVÁ, J. - NĚMEČEK, Z. - PŘECH, L. - KUDELA, K. - ZASTENKER, G.N. Relationship between high-energy particles and ion flux in the magnetosheath. In *Planetary and Space Science*. Vol.53, no.1-3 (2005), p.103-115. Special Issue: Dynamics of the Solar Wind-Magnetosphere Interaction. (1.408 - IF2005)
77. SLIVKA, M. - KUDELA, K. Anisotropy of proton fluxes in neutral sheet region measured by DOK2 on Interball-1. In *Planetary and Space Science*. Vol.53, no.1-3 (2005), p.217-227. Special Issue: Dynamics of the Solar Wind-Magnetosphere Interaction. (1.408 - IF2005)
78. BOCHEV, A.Z. - KUDELA, K. Dynamics of field-aligned currents and energetic particle fluxes in the mid-altitude cusp by INTERBALL-Au, April 1997. In *Planetary and Space Science*. Vol.53, no.1-3 (2005), p.255-263. Special Issue: Dynamics of the Solar Wind-Magnetosphere Interaction. (1.408 - IF2005)
79. McKENNA-LAWLOR, S. - BALÁŽ, J. - STRHÁRSKY, I. - BARABASH, S. - JOHNSON, K. - ZHENXING, L. - LI, L. - JIN-BIN, C. - CHAO, S. - ZONG, Q. - ROELOF, E.C. - C:SON BRANDT, P. - KUDELA, K. - FU, S. - DANDOURAS, I. An overview of the scientific objectives and technical configuration of the NeUtral Atom Detector Unit (NUADU) for the Chinese Double Star Mission. In *Planetary and Space Science*. Vol.53, no.1-3 (2005), p.335-348. Special Issue: Dynamics of the Solar Wind-Magnetosphere Interaction. (1.408 - IF2005)
80. MINAROVJECH, M. - KUDELA, K. Cosmic Rays and Solar Coronal Emissions: Cross-correlations of the time series. . 1st International Symposium on Space Climate: Direct and Indirect Observations of Long-Term Solar Activity, 20 – 23 June 2004, Oulu, Finland. In *Solar Physics*. Vol.224, no.1-2 (2004), p.285-290. (2.006 - IF2004)
81. KUDELA, K. - BOBIK, P. Long-term variations of geomagnetic rigidity cutoffs. 1st International Symposium on Space Climate: Direct and Indirect Observations of Long-Term Solar Activity, 20 – 23 June 2004, Oulu, Finland. In *Solar Physics*. Vol.224, no.1-2 (2004), p.423-431. Invited Review. (2.006 - IF 2004)
82. FARKAŠOVSKÝ, P. Valence transition behavior of the doped Falicov-Kimball model at nonzero temperatures. In *Solid State Communications*. Vol.135, no.4 (2005), p.273-277. (1.489 - IF2005)
83. KRAČUNOVSKÁ, S. - DIKO, P. - LITZKENDORF, D. - HABISREUTHER, T. - BIERLICH, J. – GAWALEK, W. Oxygenation and cracking in melt-textured YBCO bulk superconductors. PASREG 2003: International Workshop on Processing and Applications of Superconducting (RE)BCO Large Grain Materials, Jena, Germany, 30 June-2 July 2003. In *Superconductor Science & Technology*. Vol.18, Sp. Iss.SI, no.2 (2005) , p.S142-S148. (1.896 - IF2005)
84. ZMORAYOVÁ, K. - DIKO, P. - CARRILLO, A.E. - SANDIUMENGE, F. - OBRADORS, X. Quantitative analysis of Y<sub>2</sub>BaCuO<sub>5</sub>-particle distribution in a melt-grown YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>/Y<sub>2</sub>BaCuO<sub>5</sub> bulk superconductor. In *Superconductor Science & Technology*. Vol.18 , no.7 (2005) , p.948-952. (1.896 - IF2005)
85. DIKO, P. - KRAČUNOVSKÁ, S. - CENIGA, L. - BIERLICH, J. - ZEISBERGER, M. - GAWALEK, W. Microstructure of top seeded melt-grown YBCO bulks with holes. In *Superconductor Science & Technology*. Vol.18, no.10 (2005), p.1400-1404. (1.896 - IF2005)

86. BLECKI, J. - WRONOWSKI, R. - SAVIN, S. - CORNILLEAU-WEHRLIN, N. - PARROT, M. - NEMEČEK, Z. - ŠAFRÁNKOVÁ, J. - SANTOLIK, O. - KUDELA, K. - SAUVAUD, J.A. Low-frequency plasma waves in the outer polar cusp: A review of observations from Prognos 8, Interball 1, Magion 4, and cluster. In *Surveys in Geophysics*. Vol.26, no.1-3 (2005), p.177-191. (0.975 - IF2005 )
87. KUPKOVÁ, M. - KUPKA, M. - RUDNAYOVÁ, E. - DUSZA, J. On the use of fractal geometry methods for the wear process characterization. In *Wear*. Vol.258, no.9 (2005), p.1462-1465. (1.404 - IF2005)

## 9.Vedecké práce v časopisoch evidovaných b/ v iných medzinárodných databázach

WOS:

88. KUPKOVÁ, M. - KUPKA, M. - RUDNAYOVÁ, E. - DUSZA, J. A Contribution of Fractal Geometry to Characterization of Wear Process. Proceedings of the 2nd International Conference on Fractography of Advanced Ceramics, Stará Lesná, Slovakia, October 3 - 6, 2004. In *Key Engineering Materials*. Vol.290 (2005), p.276-279. (0.224 - IF2005) (Wos)

SCOPUS:

89. STORINI, M. - KUDELA, K. - CORDARO, E.G. - MASSETTI, S. Ground-level enhancements during solar cycle 23: results from SVIRCO, LOMNICKY STIT and LARC neutron monitors. In *Advances in Space Research*. Vol.35, no.3 (2005), p.416-420. (0.706 - IF2005) (Scopus)
90. \*\*\* PICKHARD, M. - VON BERGEN, M. - GAŽOVÁ, Z. - HASCHER, A. - BIERNAT, J. - MANDELKOW, E.M. - MANDELKOW, E. Screening for inhibitors of tau polymerization. In *Current Alzheimer Research*. Vol. 2, no.2 (2005), p.219-226. (Scopus)
91. KOPČANSKÝ, P. - BÁNÓ, M. - REPAŠAN, M. - POTOČOVÁ, I. - TIMKO, M. - HRNČIAR, V. - DEMJAN, S. Magnetic targeted drug delivery using focused magnet. Selected papers of the workshop „Magnetic forces in nano-and biotechnologies“, Riga, Latvia, September 16 - 18, 2004. In *Magneto hydrodynamics*. Vol.40, no.4 (2004), p.369-376. (Scopus)
92. KUZNETSOV, S.N. - KUDELA, K. - MYAGKOVA, I.N. - PODOROLSKY, A.N. - RYUMIN, S.P. - YUSHKOV, B.Yu. First experience with SONG-M measurements on board CORONAS-F satellite. In *Indian Journal of Radio & Space Physics*. Vol.33 (2004), p.353-357. (- IF2005) (Scopus)
93. SAMUELY, P. - HOLANOVÁ, Z. - SZABÓ, P. - WILKE, H.T. - BUĐKO, S.L. - CANFIELD, P.C. Energy gaps in doped MgB<sub>2</sub>. In *Physica status solidi (c)*. Vol.2 , no.5 (2005), p.1743-1748. (- IF2005) (Scopus)
94. TABACHNIKOVA, E.D. - BENGUS, V.Z. - PODOLSKYI, A.V. - SMIRNOV, S.N. - NATSIK, V.D. - CSACH, K. - MIŠKUF, J. - GUNDEROV, D.V. - VALIEV, R. Low Temperature Features of Mechanical Properties and Failure of Different Commercial Purity Nanostructured Titanium Processed by ECA Pressing. In *Reviews on Advanced Materials Science*. Vol.10, no.3 (2005), p. 229-234. (- IF2005) (Scopus)

SLAC SPIRES HEP Database:

95. \*\* JACHOLKOWSKI, A. for NA57 Collaboration (ANTINORI, F. -...- BOMBARA, M. -...- JUSKO, A. -...- KRÁLIK, I. -...- PASTIRČÁK, B. -...- ŠAFAŘÍK, K. -...- ŠÁNDOR, L. -...-) Multiplicity of charged particles in Pb-Pb collisions at SPS energies. Focus on Multiplicity: International Workshop on Particle Multiplicity in Relativistic Heavy Ion Collisions, 17 -19 June 2004, Bari, Italy. In *Journal of Physics: Conference Series*. Vol.5 (2005), p.64-73. hep-ex/0406004. ( - IF2005) (SLAC Spires)

## 10.Vedecké práce v ostatných časopisoch

96. DAXNER, P. - DZVONÍK, O. - KUDELA, K. Space weather and some parameters of the mental performance and health status of aircrews. In *Acta Avionica*. roč.7, č.11 (2005), s.11-15.
97. JÓZEF CZAK, A. - SKUMIEL, A. - TIMKO, M. - KOPČANSKÝ, P. - KONERACKÁ, M. The influence of magnetic field on ultrasonic velocity and magnetic properties of CoFe<sub>2</sub>O<sub>4</sub> ferrofluid. In *Archives of Acoustics*. Vol.30, no.4 (Supplement) (2005), p.11-14.
98. ERMOLAEV, Yu.I. - ZELENYI, L.M. - ZASTENKER, G.N. - PETRUKOVICH, A.A. - MITROFANOV, I.G. - LITVAK, M.L. - VESELOVSKY, I.S. - PANASYUK, M.I. - LAZUTIN, L.L. - DMITRIEV, A.V. - ZHUKOV, A.N. - KUZNETSOV, S.N. - MYAGKOVA, I.N. - YUSHKOV, B.Yu. - KURT, V.G. - GNEZDILOV, A.A. - GORGUTSA, R.V. - MARKEEV, A.K. - SOBOLEV, D.E. - FOMICHEV, V.V. - KUZNETSOV, V.D. - BOLDYREV, S.I. - CHERTOK, I.M. - BOYARCHUK, K.A. - KRASHENINNIKOV, I.V. - KOLOMIITSEV, O.P. - LESHCHENKO, L.N. - BELOV, A.V. - GAIDASH, S.P. - KANONIDI, Kh.D. - BOGACHEV, S.A. - ZHITNIK, I.A. - IGNAT'EV, A.P. - KUZIN, S.V. - OPARIN, S.N. - PERTSOV, A.A. - SELEMZIN, V.A. - SUKHODREV, N.K. - SHESTOV, S.V. - VLASOV, V.I. - CHASHEI, I.V. - VASHENYUK, E.V. - SAKHAROV, Ya.A. - DANILIN, A.N. - BOGOD, V.M. - TOKHCHUKOVA, S.Kh. - MIKHALEV, A.V. - BELETSKII, A.B. - KOSTYLEVA, N.V. - CHERNIGOVS KAYA, M.A. - GRECHNEV, V.V. - KUDELA, K. Solar and Heliospheric Disturbances that Resulted in the Strongest Magnetic Storm of November 20, 2003. In *Geomagnetizm i Aeronomyia*. Vol.45, no.1 (2005), p.23-50 = *Geomagnetism and Aeronomy*. Vol.45, no.1 (2005), p.20-46.
99. RADOCHOVA, B. - JANÁČEK, J. - SCHWARZEROVÁ, K. - DEMJÉNOVÁ, E. - TOMORI, Z. - KAREN, P. - KUBÍNOVÁ, L. Analysis of endoplasmic reticulum of tobacco cells using confocal microscopy In *Image Analysis and Stereology*. Vol.24, no.3 (2005), p.181-185. (ISSN 1580-3139).
100. KOTOV, Yu.D. - ARKHANGELSKAJA, I.V. - ARKHANGELSKY, A.I. - GLYANENKO, A.S. - KUZNETSOV, S.N. - KUDELA, K. - MYAGKOVA, I.N. - YUSHKOV, B.Yu. Study of gamma rays of solar flare of October 29, 2003 according to data of AVS-F and SONG instruments onboard the CORONAS-F satellite. In *Izvestija RAN: Serija fizičeskaja*. Tom. 69, no. 6 (2005), p. 768-771 = Bulletin of the Russian Academy of Sciences: Physics. Vol. 69, no. 6 (2006), p. 859-862.
101. DUDÁŠ, J. - KAVEČANSKÝ, V. - GOSČIAŇSKA, I. - GABÁNI, S. - GUZAN, M. Influence of magnetic structure on electric charge transport in thin films of holmium and dysprosium. In *Journal of Electrical Engineering*. Vol.55, no.10/S (2004), p.20-23.
102. KAVEČANSKÝ, V. - MIHALIK, M. - MITRÓOVÁ, Z. - DIKO, P. - MAŤAŠ, S. Kryštálová štruktúra vybraných ferikyanidov vzácnych zemín. STRUCTURA 2005: Kolokvium Krystalografické spoločnosti, Třešť, ČR, 20. - 23.6. 2005. Bulletin

- Krystalografické společnosti. Praha: CSCA, 2005. 162 s. In *Materials Structure in Chemistry, Biology, Physics and Technology*. Vol.12, no.2 (2005), p.112. Prednáška L4.
103. KOPČANSKÝ, P. - KONERACKÁ, M. - TIMKO, M. - POTOČOVÁ, I. - JURÍKOVÁ, A. - TOMAŠOVIČOVÁ, N. The hydrodynamic size of magnetic carrier systems determined by means of Forced Rayleigh Scattering experiment. In *Measurement Science Review*. Section 3: Measurement of Physical Quantities. Vol.5 (2005), p.82-85.
104. KUPKOVÁ, M. - ACTIS GRANDE, M. - KUPKA, M. - DUDROVÁ, E. - ROSSO, M. On the use of fractal geometry concepts for evaluating the wear behaviour of ductile materials . Application to Mn Mo sintered steels. In *Powder Metallurgy Progress. Journal of Science and Technology of Particle Materials*. Vol. 5, no.1 (2005), p. 27-36.
105. BALÁŽ, J. - STRHÁRSKY, I. Programmable energetic particle spectrometer MEP-2 for space project spectrum-radioastron. Critical Design Review (v 1,3). *Preprint IEP-SAS 1/2005*. Košice: ÚEF SAV, 2005. 31 p.
106. HAYRYAN, E.A. - JURČIŠINOVÁ, E. - JURČIŠIN, M. - POKORNÝ, I. - STEHLÍK, M. Stability of Kolmogorov scaling in the theory of anisotropically driven developed turbulence. In *Preprint JINR Dubna, E17-2005-208* .

## **11. Vedecké práce v zborníkoch (konferenčných aj nekonferenčných, vydaných tlačou alebo na CD)**

### **a/ recenzovaných**

107. DEANKO, M. - MULLER, D. - JANIČKOVIČ, D. - ŠKORVÁNEK, I. - ŠVEC, P. Cluster structure and thermodynamics of the formation of nanocrystalline phases. In *Proceedings of the NATO Advanced Research Workshop on Properties and Applications of Nanocrystalline Alloys from Amorphous Precursors, Budmerice, Slovak Republic, 9 - 15 June 2003. Series: NATO Science Series II: Mathematics, Physics and Chemistry*. Vol.184. Eds. B.Idzikowski, P.Švec, M.Miglierini. Dordrecht: Kluwer Academic Publishers, 2005. ISBN 1-4020-2963-2. p.69-79. ( R )
108. KOLLÁR, P. - FECHOVÁ, E. - FŮZER, J. - KOVÁČ, J. - PETROVIČ, P. - KAVEČANSKÝ, V. - KONČ, M. Structure and magnetic properties of the Fe-Cu-Nb-Si-B powder prepared by milling. In *Proceedings of the NATO Advanced Research Workshop on Properties and Applications of Nanocrystalline Alloys from Amorphous Precursors, Budmerice, Slovak Republic, 9 – 15 June 2003. NATO Science Series. Series II: Mathematics, Physics and Chemistry*. Vol.184. Eds. B.Idzikowski, P.Švec, M. Miglierini. Dordrecht: Kluwer Academic Publishers, 2005. ISBN 1-4020-2963-2. p.147-155. ( R )
109. DIKO, P. - KRABBES, G. Cracks in melt-grown RE-Ba-Cu-O superconductors and their elimination. In *Applied Superconductivity 2003: Proceedings of the 6th European Conference on Applied Superconductivity, Sorrento, Italy, 14 - 18 September 2003*. Eds A.Andreone, G.P.Pepe, R.Cristiano, G.Masullo. Institute of Physics Conference Series No.181. Bristol: IOP, 2004. ISBN 0 7503 09814. p.109-116. ( R )

110. SHLYK, L. - KRABBES, G. - DIKO, P. - NENKOV, K. - FUCHS, G. Chemical doping in YBCO bulk material and its influence on pinning properties. In *Applied Superconductivity 2003: Proceedings of the 6th European Conference on Applied Superconductivity, Sorrento, Italy, 14 - 18 September 2003*. Eds A.Andreone, G.P. Pepe, R.Cristiano, G.Masullo. Institute of Physics Conference Series No.181. Bristol: IOP, 2004. ISBN 0 7503 09814. p.1401-1409. ( R )
111. ZENTKOVÁ, M. - ZENTKO, A. - LUKÁČOVÁ, M. Magická magnetická kocka. In 14. konferencia slovenských fyzikov, 11. - 15.10. 2004, Kongresové centrum SAV v Smoleniciach. Zborník príspevkov. Ed. M.Reiffers. Bratislava: SFS, 2005. ISBN 80-969124-1-0. p.47-48. ( R )
112. TOMAŠOVIČOVÁ, N. Identification of biocompatible polymer immobilization on the magnetic nanoparticles by infrared spectroscopy. In *14. konferencia slovenských fyzikov, 11. - 15.10. 2004, Kongresové centrum SAV v Smoleniciach*. Zborník príspevkov. Ed. M.Reiffers. Bratislava: SFS, 2005. ISBN 80-969124-1-0. p.85-86. ( R )
113. TOMAŠOVIČOVÁ, N. - KONERACKÁ, M. - KOPČANSKÝ, P. - TIMKO, M. - ZÁVIŠOVÁ, V. Infrared study of biocompatible magnetic nanoparticles. In *MEASUREMENT '2005: Proceedings of the 5th International Conference on Measurement, Congress Centre of SAS, Smolenice Castle, Slovak Republic, May 15 - 19, 2005*. Eds. I.Frollo, M.Tyšler, V.Juraš. Bratislava: VEDA, 2005. ISBN 80-967402-8-8. p.279-282. Prednáška. ( R )
114. TIMKO, M. - KONERACKÁ, M. - TOMAŠOVIČOVÁ, N. - KOPČANSKÝ, P. - ZÁVIŠOVÁ, V. Magnetic particles for application in biomedicine. In *Proceedings of the Joint 15th Riga and 6th PAMIR International Conference on Fundamental and Applied MHD, Riga Jurmala, Latvia, June 27 - July 1, 2005*. Riga: IPUL, MHD, 2005. p.393-396. ( R )
115. BALÁŽ, P. - GODOČÍKOVÁ, E. - TAKACS, L. - ŠKORVÁNEK, I. - CHOI, W.S. - KIM, B.S. Preparation of nanocrystalline metals by mechanochemical reaction of sulphides with reducing element. In *Proceedings of the 43<sup>rd</sup> International Symposium on Powder Science and Technology, 2 - 4 Nov. 2005, Busan, Korea*. Ed. W.S.Choi. p.237-241. ( R )
116. ILKOVIČ, S. - REIFFERS, M. - IDZIKOWSKI, B. - ZORKOVSKÁ, A. - ŠEBEK, J. - MÜLLER, K.H. Asymmetry of point contact characteristics of kondo compound YbCu<sub>5</sub>. In *14. konferencia slovenských fyzikov, 11. - 15.10.2004, Kongresové centrum SAV v Smoleniciach*. Zborník príspevkov. Ed. M.Reiffers. Bratislava: SFS, 2005. ISBN 80-969124-1-0. p.33-34. Sympoziálna prednáška. ( R )
117. PRISTÁŠ, G. - REIFFERS, M. - GABÁNI, S. - FLACHBART, K. - RADULEV, I. - SIEMENSMEYER, K. Point contact spectroscopy of HoB<sub>12</sub>. In *14. konferencia slovenských fyzikov, 11. - 15.10.2004, Kongresové centrum SAV v Smoleniciach*. Zborník príspevkov. Ed. M.Reiffers. Bratislava: SFS, 2005. ISBN 80-969124-1-0. p.35-36. Sympoziálna prednáška. ( R )
118. HAJKO, V. - CSACH, K. Structure and thermophysical properties of amorphous-nanocrystalline ribbons. In *14. konferencia slovenských fyzikov, 11. - 15.10. 2004, Kongresové centrum SAV v Smoleniciach*. Zborník príspevkov. Ed. M.Reiffers. Bratislava: SFS, 2005. ISBN 80-969124-1-0. p.75-76. ( R )
119. JURÍKOVÁ, A. - CSACH, K. - MIŠKUF, J. - OCELÍK, V. Anelastic recovery spectra in amorphous alloy Fe-Ni-B. In *14. konferencia slovenských fyzikov, 11. - 15.10.2004, Kongresové centrum SAV v Smoleniciach*. Zborník príspevkov. Ed. M.Reiffers. Bratislava: SFS, 2005. ISBN 80-969124-1-0. p.79-80. ( R )

120. JURÍKOVÁ, A. - CSACH, K. - MIŠKUF, J. - OCELÍK, V. Thermal Analysis of Metallic Glass after Stress-Annealing. . In *MEASUREMENT '2005: Proceedings of the 5th International Conference on Measurement, Congress Centre of SAS, Smolenice Castle, Slovak Republic, May 15 - 19, 2005.* Eds. I.Frollo, M.Tyšler, V.Juraš. Bratislava: VEDA, 2005. ISBN 80-967402-8-8. p.384-387. ( R )
121. \*\* LEITNER, R. for the Tilecal System of the ATLAS Collaboration (-...- BÁN, J. -...- BRUNCKO, D. -...- CHYTRÁČEK, R. -...- JUSKO, A. -...- KLADIVA, E. -...- STRÍŽENEC, P. -...-) Status of Hadron Calorimeter Tilecal of the Atlas Detector. In *HADRON STRUCTURE 2004: Proceedings of the International Conference, Smolenice Castle, Slovak Republic, 30 August – 3 September 2004.* Eds. S.Dubnička, A.Z. Dubničková, P.Stríženec, J.Urbán. Košice: UPJŠ, 2005. ISBN 80-7097-590-3. p.32-41. ( R )
122. \*\* BUNYATYAN, A. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEL, J. -...- MURÍN, P. -...-) Diffraction in High Energy *ep* Collisions. In *HADRON STRUCTURE 2004: Proceedings of the International Conference, Smolenice Castle, Slovak Republic, 30 August - 3 September 2004.* Eds. S.Dubnička, A.Z. Dubničková, P. Stríženec, J. Urbán. Košice: UPJŠ, 2005. ISBN 80-7097-590-3. p.71-81. ( R )
123. \*\* ZAMBRANA, M. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEL, J. -...- MURÍN, P. -...-) Heavy Flavours at HERA. In *HADRON STRUCTURE 2004: Proceedings of the International Conference, Smolenice Castle, Slovak Republic, 30 August - 3 September 2004.* Eds. S.Dubnička, A.Z. Dubničková, P. Stríženec, J. Urbán. Košice: UPJŠ, 2005. ISBN 80-7097-590-3. p.82-91. ( R )
124. \*\* VÁZQUEZ, M. for ZEUS, H1, HERMES and HERA-B Collaborations (-...- BRUNCKO, D. -...- FERENCEL, J. -...- MURÍN, P. -...-) Exotic Haddronic States at HERA. In *HADRON STRUCTURE 2004: Proceedings of the International Conference, Smolenice Castle, Slovak Republic, 30 August - 3 September 2004.* Eds. S.Dubnička, A.Z. Dubničková, P.Stríženec, J.Urbán. Košice: UPJŠ, 2005. ISBN 80-7097-590-3. p.92-101. ( R )
125. \*\* WENBIAO, Y. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEL, J. -...- MURÍN, P. -...-) Jets and QCD at HERA. In *HADRON STRUCTURE 2004: Proceedings of the International Conference, Smolenice Castle, Slovak Republic, 30 August - 3 September 2004.* Eds. S.Dubnička, A.Z. Dubničková, P.Stríženec, J.Urbán. Košice: UPJŠ, 2005. ISBN 80-7097-590-3. p.133-142. ( R )
126. WA97 Collaboration (ANTINORI, F. -...- KRÁLIK, I. -...- PASTIRČÁK, B. -...- ŠAFARÍK, K. -...- ŠÁNDOR, L. -...-) Search for pentaquarks in WA97 experiment at CERN. In *QCHS 2004: 6th Conference on Quark Confinement and the Hadron Spectrum, Villasimius, Sardinia, Italy, 21 - 25 Sep 2004.* AIP Conference Proceedings. Vol.756 (2005), p.315-317. ( R )
127. NA57 Collaboration (ANTINORI, F. -...- BOMBARA, M. -...- JUSKO, A. -...- KRÁLIK, I. -...- PASTIRČÁK, B. -...- ŠAFARÍK, K. -...- ŠÁNDOR, L. -...-) Lambda and omega- Polarization in Pb+Pb Collisions at 160 A GeV/c. In *QCHS 2004: 6th Conference on Quark Confinement and the Hadron Spectrum, Villasimius, Sardinia, Italy, 21 - 25 Sep 2004.* AIP Conference Proceedings. Vol.756 (2005), p.428-432. ( R )
128. BRUNCKO, D. - GINTNER, M. - MELO, I. Phenomenology of vector resonances at future e+e- colliders. In *14. konferencia slovenských fyzikov, 11. - 15.10. 2004, Kongresové centrum SAV v Smoleniciach. Zborník príspevkov.* Ed. M.Reiffers. Bratislava: SFS, 2005. ISBN 80-969124-1-0. p.49-50. ( R )

129. DIRNER, A. - DOMARACKÝ, M. - KANÁSZ, R. - MURÍN, P. - FRANKO, F. - DOMARACKÝ, M. Exploitation of the streaming and the archive technologies in education. In *14. konferencia slovenských fyzikov, 11. - 15.10. 2004, Kongresové centrum SAV v Smoleniciach. Zborník príspevkov.* Ed. M.Reiffers. Bratislava: SFS, 2005. ISBN 80-969124-1-0. p.61-62. ( R )
130. \*\* BEHNKE, O. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...- TOMASZ, F. -...-) New Results From H1. In *DIS 2005: 13 th International Workshop on Deep Inelastic Scattering, 27 Apr - 1 May 2005, Madison, Wisconsin, USA.* Ed. Wesley H.Smith, Sridhara R.Dasu. AIP Conference Proceedings. Vol.792, 2005. AIP: 2005. ISBN 0-7354-0283-3. p.3. ( R )
131. NIKIFOROV, A. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...- TOMASZ, F. -...-) Polarisation Dependence of the Total CC  $e^+p$  Cross Section. In *DIS 2005: 13th International Workshop on Deep Inelastic Scattering, 27 Apr - 1 May 2005, Madison, Wisconsin, USA.* Ed. Wesley H.Smith, Sridhara R. Dasu. AIP Conference Proceedings. Vol.792, 2005. AIP: 2005. ISBN 0-7354-0283-3. p.340. ( R )
132. \*\* KIESLING, Ch. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...- TOMASZ, F. -...-) New Data on elastic  $J/\psi$  Production from H1 at HERA. In *DIS 2005: 13th International Workshop on Deep Inelastic Scattering, 27 Apr - 1 May 2005, Madison, Wisconsin, USA.* Ed. Wesley H.Smith, Sridhara R.Dasu. AIP Conference Proceedings. Vol.792, 2005. AIP: 2005. ISBN 0-7354-0283-3. p.403. ( R )
133. \*\* GWILLIAM, C. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...- TOMASZ, F. -...-) Diffractive photoproduction of  $\rho$  mesons with large momentum transfer at HERA. In *DIS 2005: 13th International Workshop on Deep Inelastic Scattering, 27 Apr - 1 May 2005, Madison, Wisconsin, USA.* Ed. Wesley H. Smith, Sridhara R.Dasu. AIP Conference Proceedings. Vol.792, 2005. AIP: 2005. ISBN 0-7354-0283-3. p.432. ( R )
134. \*\* ANTHONIS, T. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...- TOMASZ, F. -...-) Multiplicity structure in inclusive and diffractive deep inelastic  $e^+p$  collisions at HERA. In *DIS 2005: 13th International Workshop on Deep Inelastic Scattering, 27 Apr - 1 May 2005, Madison, Wisconsin, USA.* Ed. Wesley H.Smith, Sridhara R.Dasu. AIP Conference Proceedings. Vol.792, 2005. AIP: 2005. ISBN 0-7354-0283-3. p.476. ( R )
135. \*\* BECKINGHAM, M. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...- TOMASZ, F. -...-) Diffractive  $D^{*+}$  Meson Production in Deep-Inelastic Scattering at HERA. In *DIS 2005: 13th International Workshop on Deep Inelastic Scattering, 27 Apr - 1 May 2005, Madison, Wisconsin, USA.* Ed. Wesley H. Smith, Sridhara R.Dasu. AIP Conference Proceedings. Vol.792, 2005. AIP: 2005. ISBN 0-7354-0283-3. p.484. ( R )
136. \*\* MOZER, M.U. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...- TOMASZ, F. -...-) Diffractive Dijets in DIS and Photoproduction. In *DIS 2005: 13th International Workshop on Deep Inelastic Scattering, 27 Apr - 1 May 2005, Madison, Wisconsin, USA.* Ed. Wesley H.Smith, Sridhara R.Dasu. AIP Conference Proceedings. Vol.792, 2005. AIP: 2005. ISBN 0-7354-0283-3. p.488. ( R )
137. \*\* KLUGE, T. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...- TOMASZ, F. -...-) Multi Jet Production at High  $Q^2$ . In *DIS 2005: 13 th International Workshop on Deep Inelastic Scattering, 27 Apr - 1 May 2005, Madison, Wisconsin, USA.* Ed. Wesley H.Smith, Sridhara R.Dasu. AIP Conference Proceedings.

- Vol.792, 2005. AIP: 2005. ISBN 0-7354-0283-3. p.702. Prednáška. hep-ex/0510079. ( R )
138. \*\* FERENCÉI, J. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCÉI, J. -...- MURÍN, P. -...- TOMASZ, F. -...-) Measurement of prompt photon cross sections in photoproduction at H1. In *DIS 2005: 13th International Workshop on Deep Inelastic Scattering, 27 Apr - 1 May 2005, Madison, Wisconsin, USA*. Ed. Wesley H.Smith, Sridhara R.Dasu. AIP Conference Proceedings. Vol.792, 2005. AIP: 2005. ISBN 0-7354-0283-3. p.763. ( R )
  139. \*\* PERIEANU, A. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCÉI, J. -...- MURÍN, P. -...- TOMASZ, F. -...-) The Structure of Charm Jets in Deep-Inelastic Scattering. In *DIS 2005: 13th International Workshop on Deep Inelastic Scattering, 27 Apr - 1 May 2005, Madison, Wisconsin, USA*. Ed. Wesley H.Smith, Sridhara R.Dasu. AIP Conference Proceedings. Vol.792, 2005. AIP: 2005. ISBN 0-7354-0283-3. p.807. ( R )
  140. \*\* FLUCKE, G. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCÉI, J. -...- MURÍN, P. -...- TOMASZ, F. -...-) Photoproduction of D\* Mesons and Jets with H1. In *DIS 2005: 13th International Workshop on Deep Inelastic Scattering, 27 Apr - 1 May 2005, Madison, Wisconsin, USA*. Ed. Wesley H.Smith, Sridhara R.Dasu. AIP Conference Proceedings. Vol.792, 2005. AIP: 2005. ISBN 0-7354-0283-3. p.815. ( R )
  141. \*\* MARTIŠKOVÁ, M. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCÉI, J. -...- MURÍN, P. -...- TOMASZ, F. -...-) Study of Jet Shapes in Charm Photoproduction at HERA. In *DIS 2005: 13th International Workshop on Deep Inelastic Scattering, 27 Apr - 1 May 2005, Madison, Wisconsin, USA*. Ed. Wesley H.Smith, Sridhara R.Dasu. AIP Conference Proceedings. Vol.792, 2005. AIP: 2005. ISBN 0-7354-0283-3. p.819. ( R )
  142. \*\* RÚRIKOVÁ, Z. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCÉI, J. -...- MURÍN, P. -...- TOMASZ, F. -...-) Charm Fragmentation Fractions and the Charm Fragmentation Function. In *DIS 2005: 13th International Workshop on Deep Inelastic Scattering, 27 Apr - 1 May 2005, Madison, Wisconsin, USA*. Ed. Wesley H.Smith, Sridhara R.Dasu. AIP Conference Proceedings. Vol.792, 2005. AIP: 2005. ISBN 0-7354-0283-3. p.859. ( R )
  143. \*\* BEHNKE, O. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCÉI, J. -...- MURÍN, P. -...- TOMASZ, F. -...-) Measurement of beauty production at HERA using events with muons and jets. In *DIS 2005: 13th International Workshop on Deep Inelastic Scattering, 27 Apr - 1 May 2005, Madison, Wisconsin, USA*. Ed. Wesley H. Smith, Sridhara R.Dasu. AIP Conference Proceedings. Vol.792, 2005. AIP: 2005. ISBN 0-7354-0283-3. p.903. ( R )
  144. \*\* LENISA, P. for PAX Collaboration (-...- BRUNCKO, D. -...- FERENCÉI, J. -...-) PAX: polarized Antiproton experiments. In *DIS 2005: 13th International Workshop on Deep Inelastic Scattering, 27 Apr - 1 May 2005, Madison, Wisconsin, USA*. Ed. Wesley H. Smith, Sridhara R.Dasu. AIP Conference Proceedings. Vol.792, 2005. AIP: 2005. ISBN 0-7354-0283-3. p.1023. ( R )
  145. KUDELA, K. - SLIVKA, M. Extreme disturbances in space in october – november 2003: Slovak contribution to study of energetic particles. In *14. konferencia slovenských fyzikov, 11. - 15.10. 2004, Kongresové centrum SAV v Smoleniciach*. Zborník príspevkov. Ed. M.Reiffers. Bratislava: SFS, 2005. ISBN 80-969124-1-0. p.69-70 ( R )
  146. SLIVKA, M. - KUDELA, K. Shifts of the outer radiation belt position of relativistic electrons during october - november 2003. In *14. konferencia slovenských fyzikov, 11. -15.10. 2004, Kongresové centrum SAV v Smoleniciach*. Zborník príspevkov. Ed. M. Reiffers. Bratislava: SFS, 2005. ISBN 80-969124-1-0. p.71-72. ( R )



147. SLIVKA, M. - KUDELA, K. - KUZNETSOV, S.N. Dynamics of relativistic electrons during strong magnetic storms according to the CORONAS-F data. In *14. konferencia slovenských fyzikov, 11. - 15.10. 2004, Kongresové centrum SAV v Smoleniciach*. Zborník príspevkov. Ed. M.Reiffers. Bratislava: SFS, 2005. ISBN 80-969124-1-0. p.73-74. ( R )
148. KUDELA, K. - SLIVKA, M. - LANGER, R. Energetic particle data base at IEP SAS from satellites and ground measurements. In *Proceedings of the 11<sup>th</sup> International Scientific Conference Solar Terrestrial Influences*, Sofia, Bulgaria, November 23 - 25, 2005. Ed. S. Panechev. Bulgaria: BAS, 2005. ISBN 954-91424-1-9. p.270-272. ( R )
149. TOMČO, L. - MARTON, K. - KOPČANSKÝ, P. - KONERACKÁ, M. - TIMKO, M. Experimentálne štúdium dielektrického prierazu v magnetických kvapalinách na báze transformátorového oleja. In *14. konferencia slovenských fyzikov, 11. - 15.10. 2004, Kongresové centrum SAV v Smoleniciach*. Zborník príspevkov. Ed. M.Reiffers. Bratislava: SFS, 2005. ISBN 80-969124-1-0. p.29-30. ( R )
150. KOPČANSKÝ, P. - TIMKO, M. - POTOČOVÁ, I. - KONERACKÁ, M. - JURÍKOVÁ, A. - TOMAŠOVIČOVÁ, N. The determination of the hydrodynamic size of magnetic carrier systems using FRS experiment. In *14. konferencia slovenských fyzikov, 11. -15.10. 2004, Kongresové centrum SAV v Smoleniciach*. Zborník príspevkov. Ed. M. Reiffers. Bratislava: SFS, 2005. ISBN 80-969124-1-0. p.81-82. ( R )
151. KOPČANSKÝ, P. - KONERACKÁ, M. - TIMKO, M. - POTOČOVÁ, I. - JURÍKOVÁ, A. - TOMAŠOVIČOVÁ, N. The hydrodynamic size of magnetic carrier systems determined by means of Forced Rayleigh Scattering experiment. In *MEASUREMENT '2005: Proceedings of the 5th International Conference on Measurement, Congress Centre of SAS, Smolenice Castle, Slovak Republic, May 15 - 19, 2005*. Eds. I.Frollo, M. Tyšler, V. Juraš. Bratislava: VEDA, 2005. ISBN 80-967402-8-8. p.562-565. Prednáška. ( R )
152. KOPČANSKÝ, P. - MARTON, K. - TOMČO, L. - KONERACKÁ, M. - TIMKO, M. - POTOČOVÁ, I. - HERCHL, F. The influence of magnetic nanoparticles on DC- and AC-Dielectric breakdown in transformer oil-based magnetic fluid. In *Proceedings of the Joint 15th Riga and 6th PAMIR International Conference on Fundamental and Applied MHD, Riga Jurmala, Latvia, June 27 - July 1, 2005*. Riga: IPUL, MHD, 2005. p.329-332. ( R )
153. ŠTELINA, K. - MUSIL, C. - BRACINÍK, J. - KOPČANSKÝ, P. - TIMKO, M. - HNATIC, M. - REPAŠAN, M. - POTOČOVÁ, I. - AYRJAN, E. Light induced structuralization in magnetic fluids with negative soret constant. . In *Proceedings of the Joint 15th Riga and 6th PAMIR International Conference on Fundamental and Applied MHD, Riga Jurmala, Latvia, June 27 - July 1, 2005*. Riga: IPUL, MHD, 2005. p. 349-352. ( R ) Pozvaná prednáška.
154. KUPKOVÁ, M. - KUPKA, M. The influence of Internal Friction and Cohesion on the Density – Pressure Relation for a Powder Pressed in a DIE. In *DF PM 2005: Proceedings of the International Conference Deformation and Fracture in Structural PM Materials, Congress Center Academia, Stará Lesná, Slovak Republic, September 27 – 30, 2005*. Košice: ÚMV SAV, 2005. ISBN 80-968543-4-8. p.314-317. ( R )
155. KUPKOVÁ, M. - ACTIS GRANDE, M. - KUPKA, M. - KABÁTOVÁ, M. - DUDROVÁ, E. - ROSSO, M. A Contribution of Fractal Theory to Characterization of Wear Process of Ductile Materials. In *DF PM 2005: Proceedings of the International Conference Deformation and Fracture in Structural PM Materials, Congress Center Academia, Stará Lesná, Slovak Republic, September 27 – 30, 2005*. Košice: ÚMV SAV, 2005. ISBN 80-968543-4-8. p.332-336. ( R )

156. Janáček, J. - Radochova, B. - Demjénová, E. - Mao, X.W. - Archambeau, P. - Schwarzerová, K. - Tomori, Z. - Karen, P. - Kubínová, L. Analysis of fiber-like structures using confocal microscopy. In *Proceedings of the 9th European Congress on Stereology and Image Analysis, Zakopane, Poland, May 10 - 13, 2005*, p. 79-85. ( R )

## **11. Vedecké práce v zborníkoch (konferenčných aj nekonferenčných, vydaných tlačou alebo na CD)**

### **b/ nerecenzovaných**

157. MITRÓOVÁ, Z. - ZENTKOVÁ, M. - MIHALIK, M. - ZENTKO, A. - KAVEČANSKÝ, V. - KOVÁČ, J. Štúdium vybraných kyanokomplexov prechodných kovov. In *40 rokov výučby a výskumu v oblasti anorganickej chémie na PF UPJŠ, Tatranská Štrba, 19. - 21.5. 2005*. nestr. CD nosič.
158. DEMJÉNOVÁ, E. - JANÁČEK, J. - ZOLOTOVÁ, I. - TOMORI, Z. Active contours in segmentation of fiber like objects. In *SAMI 2005: Proceedings of the 3rd Slovakian-Hungarian Joint Symposium on Applied Machine Intelligence, Herľany, January 21-22, 2005*. ISBN 963 7154 35 3. p.75-86.
159. KOZUBÍK, A. - HOFMANOVÁ, J. - HORVÁTH, V. - ŠVIHÁLKOVÁ-ŠINDLEROVÁ, L. - TURÁNEK, J. - SOVA, P. - BÁGEĽOVÁ, J. Komplexní povaha mechanismů působení platinových cytostatik a možnosti modulace jejich účinků ovlivněním fosfolipidového metabolismu. In *29. Brněnské onkologické dny s 19. Konferencí pro sestry a laboranty, Brno, 26 - 28.5. 2005*. Edukační sborník. Prednáška 52, 2 p.
160. JANÁČEK, J. - RADOCHOVA, B. - DEMJÉNOVÁ, E. - SCHWARZEROVÁ, K. - TOMORI, Z. - KAREN, P. - KUBÍNOVÁ, L. Analysis of endoplasmic reticulum by confocal microscopy. In *PPGT 2005: Proceedings of Prague Post Genome Technology Workshop, Prague, Czech Republic, June 6 - 7, 2005*. p.22-23.

## **12. Vedecké práce v zborníkoch rozšírených abstraktov**

161. FABIAN, M. - ANTALÍK, M. - BERKA, V. - JANCURA, D. - PALMER, G. Internal Electron Transfer in Cytochrome c Oxidase. In *SSB 2005: 4th Conference Structure and Stability of Biomacromolecules, Košice, Slovak Republic, September 12 - 14, 2005*. Book of Contributions. Košice: ÚEF SAV a UPJŠ Košice, 2005. p. 9-10, plenary lectures PL3.
162. ANTALÍK, M. Effect of strong inorganic acids on ferricytochrome c structure. In *SSB 2005: 4th Conference Structure and Stability of Biomacromolecules, Košice, Slovak Republic, September 12 - 14, 2005*. Book of Contributions. Košice: ÚEF SAV a UPJŠ, 2005. p. 17-18, plenary lectures PL7.
163. BÁNÓ, M. - MAREK, J. Interaction and thermal volumes of the hydrated proteins. In *SSB 2005: 4th Conference Structure and Stability of Biomacromolecules, Košice, Slovak Republic, September 12 - 14, 2005*. Book of Contributions. Košice: ÚEF SAV a UPJŠ, 2005. p.37-38, short communications SC9.

164. TOMORI, Z. - DEMJÉNOVÁ, E. - MOZEŠ, Š. Semi-interactive segmentation algorithm in the villus optical density measurement. In *SSB 2005: 4th Conference Structure and Stability of Biomacromolecules, Košice, Slovak Republic, September 12 -14, 2005*. Book of Contributions. Košice: ÚEF SAV a UPJŠ, 2005. p. 39-40, short communications SC10.
165. TOMÁŠKOVÁ, N. - VARHAČ, R. - ŽOLDÁK, G. - OLEKŠÁKOVÁ, L. - SEDLÁKOVÁ, D. - SEDLÁK, E. Modulation of conformational dynamics of cytochrome c affects its alkaline isomerization. In *SSB 2005: 4th Conference Structure and Stability of Biomacromolecules, Košice, Slovak Republic, September 12 - 14, 2005*. Book of Contributions. Košice: ÚEF SAV a UPJŠ, 2005. p. 87-88, poster PO21.
166. VARHAČ, R. - ANTALÍK, M. pH dependence of cytochrome c conformational stability. In *SSB 2005: 4th Conference Structure and Stability of Biomacromolecules, Košice, Slovak Republic, September 12 - 14, 2005*. Book of Contributions. Košice: ÚEF SAV a UPJŠ, 2005. p. 89-90, poster PO22.
167. BÁGELOVÁ, J. - FEDUNOVÁ, D. - ANTALÍK, M. Affection of cytochrome c stability by sorbitol and NaCl. In *SSB 2005: 4th Conference Structure and Stability of Biomacromolecules, Košice, Slovak Republic, September 12 - 14, 2005*. Book of Contributions. Košice: ÚEF SAV a UPJŠ, 2005. p. 91-92, poster PO23.
168. FEDUNOVÁ, D. - BÁGELOVÁ, J. - ANTALÍK, M. Thermal induced  $\alpha$  - helix to  $\beta$  - sheet transition of polylysine: Model of protein aggregation. In *SSB 2005: 4th Conference Structure and Stability of Biomacromolecules, Košice, Slovak Republic, September 12 - 14, 2005*. Book of Contributions. Košice: ÚEF SAV a UPJŠ, 2005. p.93-94, poster PO24.
169. PUDLÁK, M. Effect of the conformational transitions on electron transfer in the reaction centers of photosynthetic bacteria. In *SSB 2005: 4th Conference Structure and Stability of Biomacromolecules, Košice, Slovak Republic, September 12 - 14, 2005*. Book of Contributions. Košice: ÚEF SAV a UPJŠ, 2005. p.109-110, poster PO32.

#### **14. Prednášky a vývesky na vedeckých podujatiach s min. 30% zahraničnou účasťou**

Pozvané prednášky

170. DIKO, P. - CENIGA, L. - KRAČUNOVSKÁ, S. - GAWALEK, W. - KRABBES, G. - SHLYK, L. - BABU, H. - CARDWELL, D. Microstructure modification of TSMG YBCO bulks by artificial holes or cyclic growth. In *2<sup>nd</sup> SCENET WG Meeting, WG 1c: High Critical Current Superconductors for Applications, April 22. - 24. 2005, Rust, Austria*. Pozvaná prednáška.
171. MIHALIK, M. Summary Physics. In *Proceedings of the 35iemes Journées des Actinides, Schloss Weikersdorf, Baden, Austria, 23<sup>rd</sup> - 26<sup>th</sup> April 2005*. Baden: Schloss Weikersdorf, 2005. Pozvaná prednáška.
172. ŠKORVÁNEK, I. Soft Magnetic FeCo-based Nanocrystalline Alloys: Induced Anisotropy and Applicability at High Temperatures. In *Seminar über Magnetismus und Supraleitung, Univ. Hamburg, Germany, May 2, 2005*. Pozvaná prednáška.

173. ŠKORVÁNEK, I. Magnetic Nanomaterials. In *NENAMAT Summer School "Advanced Nanotechnologies, Testing, Production and Application of Nanoscale Materials "*, Primorsko, Bulgaria, 1.06 - 7.06. 2005. Pozvaná prednáška.
174. DEANKO, M. - PALUGA, M. - KEPAPTSOGLU, D.M. - MULLER, D. - MRAFKO, P. - JANIČKOVIČ, D. - HRISTOFOROU, E. - ŠKORVÁNEK, I. - \*ŠVEC, P. Peculiarities of electrical resistivity during transformations in amorphous and nanocrystalline alloys. In *ISMANAM 2005: 12th International Symposium on Metastable and Nano Materials, Paris, France, 3 - 7 July 2005*. Book of Abstracts. Abstr. 4-A-III-i5. Pozvaná prednáška.
175. ŠKORVÁNEK, I. Nanocrystalline materials for soft magnetic and magnetocaloric applications. In *Department of Physics, Chungbuk National University, Cheongju, Korea, August 18, 2005*. Pozvaná prednáška.
176. KEPAPTSOGLU, D.M. - DEANKO, M. - JANIČKOVIČ, D. - HRISTOFOROU, E. - ŠKORVÁNEK, I. - ŠVEC, P. Local ordering and formation of metastable phases in amorphous Fe-Co and Fe-Ni based systems. In *RQ12: 12 International Conference on Rapidly Quenched Materials, Jeju, Korea, August 22 - 26, 2005*. Pozvaná prednáška.
177. ŠKORVÁNEK, I. - MARCIN, J. - KRENICKÝ, T. - KOVÁČ, J. - ŠVEC, P. - JANIČKOVIČ, D. Improved Soft Magnetic Behaviour in Field-Annealed Nanocrystalline HITPERM alloys. In *SMM 17: 17th Soft Magnetic Materials Conference, Bratislava, Slovakia, 7 - 9 September 2005*. Programme and Book of Abstracts. Ed. M.Kollár. Bratislava: STU, 2005. p.22, abstr. O-8. Pozvaná prednáška.
178. DIKO, P. Research on High Tc Bulk Superconductors at IEP SAS Košice. In *Shibaura Institute of Technology Tokyo, October 2005*. Pozvaná prednáška.
179. DIKO, P. - KRAČUNOVSKÁ, S. - GAWALEK, W. Cracking at Oxygenation of TSMG 123 Bulks. In *PASREG 2005: 5th International Workshop on Processing and Application of Superconducting [RE]BCO Large Grain Materials, October 21 - 23, 2005 Tokyo, Japan*. Abstracts. Abstr.21A2. Pozvaná prednáška. Zasláné do Supercond. Sci. Techn.
180. DIKO, P. Microstructural Limits of TSMG REBCO Bulk Superconductors. In *ISS 2005: 18th International Symposium on Superconductivity, October 24 - 26, 2005, Tsukuba, Japan*. Program & Abstracts. Poster BL-6-INV, p.116. Pozvaná prednáška. Zasláné do Physica C.
181. SKYBA, P. Superfluid 3He as a model system for cosmology – experimental point of view. In *COSLAB2005: International Workshop Quantum Simulations via Analogues, July 25 – 28, 2005, Dresden, Germany*. Pozvaná prednáška.
182. SKYBA, P. NMR in Superfluid 3He. In *INYS: International Networking for Young Scientists – Workshop on Intermetallics, Superconductors and Quantum Fields at low Temperatures, Stará Lesná, 27.10. - 30.10.2005*. Pozvaná prednáška.
183. SAMUELY, P. - SZABÓ, P. Two gap superconductivity, case of MgB<sub>2</sub>. In *INYS: International Networking for Young Scientists – Workshop on Intermetallics, Superconductors and Quantum Fields at low Temperatures, Stará Lesná, 27.10. - 30.10.2005*. Pozvaná prednáška.
184. ŠÁNDOR, L. What have we learnt studying strangeness production in heavy-ion collisions at SPS? In *ISMD 2005: 35th International Symposium on Multiparticle Dynamics, Kroměříž, Czech Republic, August 9 - 15, 2005*. Pozvaná prednáška. Zborník v tlači.
185. ŠÁNDOR, L. Program ALICE. In *15th conference of Slovak and Czech Physicists, 5.9. - 8.9. 2005, SAS, Košice*. Proceedings of abstracts. Eds. J.Kováč, M.Reiffers. Bratislava: SFS, 2005. abstr. P4. Pozvaná prednáška.

186. BRUNCKO, D. Vstup Slovenska do CERNu a súčasný stav experimentu ATLAS. In *Fundamentálne problémy súčasnej fyziky*, 16. - 18.10. 2005, Užhorod, Ukrajina. Pozvaná prednáška.
187. KUDELA, K. - BOBIK, P. Long-term variations of geomagnetic rigidity cutoffs. 1st International Symposium on Space Climate: Direct and Indirect Observations of Long-Term Solar Activity, 20 – 23 June 2004, Oulu, Finland. Pozvaná prednáška. = In *Solar Physics*. Vol.224, no.1 (2004), p.423-431. Invited Review.
188. KOPČANSKÝ, P. - HNATIC, M. - REPAŠAN, M. - POTOČOVÁ, I. - TIMKO, M. - TUREK, I. - ŠTELINA, J. - MUSIL, C. – BRACINÍK, J. Light induced structuralization in magnetic fluids with negative Soret constant. In *10<sup>th</sup> Workshop on Acoustoelectronics & Optoelectronics, Gliwice 2. - 4.3.2005*. Abstrakt. Pozvaná prednáška.
189. KOPČANSKÝ, P. - KONERACKÁ, M. - TIMKO, M. - POTOČOVÁ, I. - JADZYN, J. The structural transitions in ferronematics and ferronematic droplets. In *MISM 2005: Moscow International Symposium on Magnetism, June 25 - 30, 2005, Moscow*. Book of abstracts. Eds. N.Perov, I.Zhukov, S.Erokhin, D.Gusakova. Moscow: MGU, 2005. ISBN 5-8279-0052-4. abstr.26RP-D-6, p.44. Pozvaná prednáška. Prijaté do JMMM.
190. KOPČANSKÝ, P. - TOMAŠOVIČOVÁ, N. - KONERACKÁ, M. - POTOČOVÁ, I. - TIMKO, M. - TOMČO, L. - ZÁVIŠOVÁ, V. Magnetic fluids and their technical and biomedical applications. In *ICNCT: The 12<sup>th</sup> International conference of nonconventional technologies*, 3. - 4.11. 2005, Bucharest, Romania. Abstrakt. Pozvaná prednáška.

Prednášky, abstrakty, postery

191. MIHALIK, M. - KAVEČANSKÝ, V. - PANFILOV, A.S. - WOCHOWSKI, K. - TROC, R. Alloying and Magnetovolume EWffect in  $(U_{1-x}Th_x)_3Al_2M_3$ . In *Proceedings of the 35iemes Journées des Actinides, Schloss Weikersdorf, Baden, Austria, 23<sup>rd</sup> - 26<sup>th</sup> April 2005*. Baden: Schloss Weikersdorf, 2005. Poster P-17.
192. TIMKO, M. - KOPČANSKÝ, P. - HERCHL, F. - KONERACKÁ, M. - POTOČOVÁ, I. - MARTIN, K. – TOMČO, L. The DC and AC insulating properties of magnetic fluids based on transformer oil. In *INDUCTICA 2005: Coil Winding, Insulation & Electrical Manufacturing; International Conference and Exhibition, June 21 – 23, 2005, Berlin, Germany*. Abstrakt, poster.
193. ŠKORVÁNEK, I. - KOVÁČ, J. Magnetic viscosity in soft magnetic nanocrystalline FeNbB alloys. In *PM 2005: The European Conference Physics of Magnetism, June 24 -27 2005, Poznań, Poland*. Abstracts. Eds. R.Micnas et al. Poznan: IMP PAS. 2005. Abstr. P-2-16, p.64. Contributions.
194. ŠKORVÁNEK, I. - MARCIN, J. - KRENICKÝ, T. - KOVÁČ, J. - ŠVEC, - JANIČKOVIČ, D. Improved soft magnetic properties in HITPERM nanocrystalline alloys by heat treatment under external magnetic field. In *PM 2005: The European Conference Physics of Magnetism, June 24 - 27, 2005, Poznań, Poland*. Abstracts. Eds. R.Micnas et al. Poznan: IMP PAS. 2005. Abstr. 0-3-03, p.86. Contributions. Prednáška.
195. ZENTKOVÁ, M. - MIHALIK, M. - KOVÁČ, J. - ZENTKO, A. - MITRÓOVÁ, Z. - LUKÁČOVÁ, M. – KISS, L.S. Magnetic properties of  $Tm_3[Cr(CN)_6]_2 \cdot nH_2O$ . In *PM 2005: The European Conference Physics of Magnetism, June 24 – 27, 2005, Poznań, Poland*. Abstracts. Eds. R.Micnas et al. Poznan: IMP PAS. 2005. Abstr. P-3-08, p.91. Contributions.

196. KOVÁČ, J. - BOKOR, M. - ZENTKOVÁ, M. - ZENTKO, A. - MITRÓOVÁ, Z. - KAMARAS, K. Magnetic properties and  $^1\text{H}$  NMR spectroscopy of  $\text{TM}^{2+}_2 [\text{W}^{\text{IV}}(\text{CN})_8] \cdot n\text{H}_2\text{O}$ . In *PM 2005: The European Conference Physics of Magnetism, June 24 – 27, 2005, Poznaň, Poland*. Abstracts. Eds. R.Micnas et al. Poznan: IMP PAS. 2005. Abstr. P-3-12, p.93. Contributions.
197. BEDNARČÍK, J. - KOLLÁR, P. - ROTH, Š. - KOVÁČ, J. The influence of ball milling on curie temperature of amorphous CoFeSiB powder. In *PM 2005: The European Conference Physics of Magnetism, June 24 – 27, 2005, Poznaň, Poland*. Abstracts. Eds. R.Micnas et al. Poznan: IMP PAS. 2005. Abstr. P-3-20, p.96. Contributions.
198. BAŤKOVÁ, M. - BAŤKO, I. - MIHALIK, M. - KONOVALOVA, E.S. - SHITSEVALOVA, N. - PADERNO, Y. Electrical properties of carbon doped  $\text{EuB}_6$ . In *PM 2005: The European Conference Physics of Magnetism, June 24 - 27, 2005, Poznaň, Poland*. Abstracts. Eds. R.Micnas et al. Poznan: IMP PAS. 2005. Abstr. P-4-04, p.105. Contributions.
199. MIHALIK, M. - FLACHBART, K. - GABÁNI, S. - MIHALIK, M. Jr. - ROGL, P. - TROČ, R. Thermal properties of  $\text{U}_3\text{Al}_2\text{Si}_3$  single crystal. In *PM 2005: The European Conference Physics of Magnetism, June 24 – 27, 2005, Poznaň, Poland*. Abstracts. Eds. R.Micnas et al. Poznan: IMP PAS. 2005. Abstr. P-4-08, p.107. Contributions.
200. ZENTKO, A. - KOVÁČ, J. - MAŤAŠ, S. - MIHALIK, M. - ZENTKOVÁ, M. - SVOBODA, P. Magnetic properties of non- stoichiometric  $\text{U}_{1+x}\text{Ni}_{1+y}$  Al compounds. In *PM 2005: The European Conference Physics of Magnetism, June 24 – 27, 2005, Poznaň, Poland*. Abstracts. Eds. R.Micnas et al. Poznan: IMP PAS. 2005. Abstr. P-4-10, p.108. Contributions.
201. TIMKO, M. - KOPČANSKÝ, P. - HERCHL, F. - KONERACKÁ, M. - POTOČOVÁ, I. - TOMČO, L. - MARTON, K. The DC and AC insulting properties of magnetic fluids based on transformer oil. In *PM 2005: The European Conference Physics of Magnetism, June 24 – 27, 2005, Poznaň, Poland*. Abstracts. Eds. R.Micnas et al. Poznan: IMP PAS. 2005. Abstr. P-5-08, p.118. Contributions.
202. TIMKO, M. - KONERACKÁ, M. - TOMAŠOVIČOVÁ, N. - KOPČANSKÝ, P. - ZÁVIŠOVÁ, V. Magnetite polymer nanospheres loaded by indometacin for anti-inflammatory therapy. In *MISM 2005: Moscow International Symposium on Magnetism, June 25 – 30, 2005, Moscow*. Book of abstracts. Eds. N.Perov, I.Zhukov, S.Erokhin, D.Gusakova. Moscow: MGY, 2005. ISBN 5-8279-0052-4. abstr. 26PO-3-21, p.146.
203. TIMKO, M. - KOPČANSKÝ, P. - KONERACKÁ, M. - ŠTRBÁK, O. - ZÁVIŠOVÁ, V. - TOMAŠOVIČOVÁ, N. Magnetic properties for biomedicine and biotechnology applications. In *6th PAMIR International Conference Fundamental and Applied MHD, June 27-July 1, 2005 Riga, Latvia*. Prednáška.
204. TOMČO, L. - MARTON, K. - KONERACKÁ, M. - KOPČANSKÝ, P. - TIMKO, M. - POTOČOVÁ, I. The influence of magnetic nanoparticles concentration on the dielectric breakdown in transformer oil-based magnetic fluids. In *6th PAMIR International Conference Fundamental and Applied MHD, June 27 - July 1, 2005 Riga, Latvia*. Prednáška.
205. BALÁŽ, P. - TAKACS, L. - GODOČÍKOVÁ, E. - ŠKORVÁNEK, I. - KOVÁČ, J. Preparation of nanosized antimony by mechanochemical reduction of antimony sulphide. In *ISMANAM 2005: 12th International Symposium on Metastable and Nano Materials, Paris, France, 3 - 7 July 2005*. Book of Abstracts. abstr.5-C-1-6.
206. KAŇUCH, T. - MIGLIERINI, M. - GRENECHE, J.M. - ŠKORVÁNEK, I. Effect of external magnetic field annealing on magnetic texture of  $\text{Fe}_{76}\text{Mo}_8\text{Cu}_1\text{B}_{15}$  nanocrystalline

- alloy. In *ISMANAM 2005: 12th International Symposium on Metastable and Nano Materials, Paris, France, 3 - 7 July 2005*. Book of Abstracts.abstr.PII-41.
207. KONERACKÁ, M. - ZÁVIŠOVÁ, V. - TOMAŠOVIČOVÁ, N. - KOPČANSKÝ, P. - TIMKO, M. Some immobilization modes of biologically active substances to fine magnetic particles. In *88<sup>th</sup> International Bunsen-Discussion Meeting. Magnetic Colloidal Fluids: Preparation, Characterization, Physical Properties and Applications July 20 – 22, 2005. Saarland University, Saarbrücken Germany. 6th German Ferrofluid-Workshop 2005*. Poster P59, p.105.
208. TOMAŠOVIČOVÁ, N. - KNÍŽEK, K. - VEVERKA, M. Temperature dependence of the infrared properties of Hg-BA-Cu-O high temperature superconductor. In *SCES' 05: International Conference on Strongly Correlated Electron Systems, July 26th – 30th, 2005, Vienna*. Book of abstracts. Poster SCO-62, p.131. V tlači Physica B.
209. BAŤKOVÁ, M. - BAŤKO, I. - KONOVALOVA, E.S. - SHITSEVALOVA, N. - PADERNO, Y. Gap properties of SmB<sub>6</sub> and YbB<sub>12</sub>: Electrical resistivity and tunneling spectroscopy studies. In *SCES' 05: International Conference on Strongly Correlated Electron Systems, July 26th – 30th, 2005, Vienna*. Book of abstracts. Poster BOR-12, p.183. V tlači Physica B.
210. BAŤKOVÁ, M. - BAŤKO, I. - MIHALIK, M. Electron tunneling spectroscopy studies of FeSi. . In *SCES' 05: International Conference on Strongly Correlated Electron Systems, July 26th – 30th, 2005, Vienna*. Book of abstracts. Poster HF-43, p.212.
211. MIHALIK, M. - MAŤAŠ, S. - KOVÁČ, J. - KAVEČANSKÝ, V. - MIHALIK, M. Jr. - SVOBODA, P. Thermal, magnetic and transport properties of Ce<sub>5</sub>Ni<sub>2</sub>Si<sub>3</sub>. In *SCES' 05: International Conference on Strongly Correlated Electron Systems, July 26th – 30th, 2005, Vienna*. Book of abstracts. Poster HFC-65, p.257. V tlači Physica B.
212. SVOBODA, P. - VEJPRAVOVÁ, J. - DANIŠ, S. - MIHALIK, M. Specific heat of RNi<sub>4</sub>Al intermetallic compounds. In *SCES'05: The International Conference on Strongly Correlated Electron Systems, July 26th – 30th, 2005, Vienna*. Book of abstracts. Poster NMM-21, p.330.
213. ŠKORVÁNEK, I. - MARCIN, J. - KRENICKÝ, T. - KOVÁČ, J. - ŠVEC, P. - JANIČKOVIČ, D. Improved soft magnetic behaviour in field-annealed nanocrystalline FeCoNbB alloys. In *ICCE – 12: 12th International Conference on Composites/Nano Engineering, Tenerife, Spain, August 1-6, 2005*. Prednáška.
214. ŠKORVÁNEK, I. - KRENICKÝ, T. - MARCIN, J. - ŠVEC, P. - JANIČKOVIČ, D. - GERLING, R. Magnetic and mechanical properties of (Fe<sub>1-x</sub>Cox)<sub>81</sub>Nb<sub>7</sub>B<sub>12</sub> (x=0, 0.25, 0.33, 0.5, 0.66 and 0.75) nanocrystalline alloys. In *RQ12: 12 International Conference on Rapidly Quenched Materials, Jeju, Korea, August 22 - 26, 2005*. Poster MA-7, p.94. Prednáška.
215. ŠKORVÁNEK, I. - KOVÁČ, J. - ŠVEC, P. - JANIČKOVIČ, D. Magnetocaloric effect in amorphous and nanocrystalline Fe<sub>81-x</sub>Cr<sub>x</sub>Nb<sub>7</sub>B<sub>12</sub> (x=0 and 3.5) alloys. In *RQ12: 12 International Conference on Rapidly Quenched Materials, Jeju, Korea, August 22 -26, 2005*. Poster, p.171. Prednáška.
216. HERCHL, F. - KOPČANSKÝ, P. - MARTON, K. - TOMČO, L. - KONERACKÁ, M. - TIMKO, M. - POTOČOVÁ, I. The DC and AC insulating properties of magnetic fluids based on transformer oil. In *TNT 2005: Trends in Nanotechnology, Španielsko OVIEDO, 29.8 - 2.9. 2005*. Abstrakt.
217. HERCHL, F. - KOPČANSKÝ, P. - MARTON, K. - TOMČO, L. - \*KONERACKÁ, M. - TIMKO, M. - POTOČOVÁ, I. Dielectric breakdown in magnetic liquids based on

- transformer oils. In *15th conference of Slovak and Czech Physicists, 5.9. - 8.9. 2005, SAS, Košice*. Proceedings of abstracts. Eds. J.Kováč, M.Reiffers. Bratislava: SFS, 2005. abstr. S6P12.
218. ŠTELINA, J. - MUSIL, C. - BRACENÍK, J. - KONERACKÁ, M. - KOPČANSKÝ, P. - TIMKO, M. - REPAŠAN, M. - POTOČOVÁ, I. Light induced structuralization in magnetic fluids with negative soret constant. In *15th conference of Slovak and Czech Physicists, 5.9. - 8.9. 2005, SAS, Košice*. Proceedings of abstracts. Eds. J.Kováč, M.Reiffers. Bratislava: SFS, 2005. abstr. S7P10.
219. SKUMIEL, A. - JOZEFČZAK, A. - TIMKO, M. - KOPČANSKÝ, P. - HERCHL, F. - KONERACKÁ, M. The heating effect in biocompatible magnetic fluid. In *ECTP: 17 th European Conference on Thermophysical Properties, September 5 - 8, 2005, Bratislava*. Book of abstracts. Eds. L.Vozár, I.Medved', Ľ.Kubičár. Bratislava: SAS, 2005. Poster, p.275.
220. MARTON, K. - TOMČO, L. - HERCHL, F. - KOPČANSKÝ, P. - TIMKO, M. - KONERACKÁ, M. Tvorba kanála elektrického prierazu v magnetických kvapalinách. In *DIAGNOSTIKA 05: Zborník z medzinárodnej vedeckej konferencie, Plzeň, 6. - 8. september 2005*. Abstract.
221. ZÁVIŠOVÁ, V. - KONERACKÁ, M. - TOMAŠOVIČOVÁ, N. - KOPČANSKÝ, P. - TIMKO, M. Immobilization of indometacin to fine magnetic particles for anti-inflammatory therapy. In *Europe's Premier Nanomedicine Conference of 2005 6th -9th September 2005 - Edinburgh, Scotland*. Abstract.
222. PAWLIK, K. - ŠKORVÁNEK, I. - PAWLIK, P. - WYSLOCKI, J.J. - BODAK, O.I. Phase Structure and Magnetocaloric effect in Binary Pr-Fe Alloys. In *SMM 17: 17th Soft Magnetic Materials Conference, Bratislava, Slovakia, 7 - 9 September 2005*. Programme and Book of Abstracts. Ed. M.Kollár. Bratislava: STU, 2005. p.44, abstr. A-A-21. Poster.
223. ILLEKOVÁ, E. - JANIČKOVIČ, D. - MIGIERINI, M. - ŠKORVÁNEK, I. - ŠVEC, P. Influence of Fe/B Ratio on Thermodynamic Properties of Amorphous Fe-Mo-Cu-B. In *SMM 17: 17th Soft Magnetic Materials Conference, Bratislava, Slovakia, 7 - 9 September 2005*. Programme and Book of Abstracts. Ed. M.Kollár. Bratislava: STU, 2005. p.132, abstr.B-D-10. Poster.
224. LOVAS, A. - BÁRDÓS, A. - BÁN, K. - KOVÁČ, J. - KAMASA, P. Annealing Experiments on the Bulk Amorphous Alloy Around the Glass Transition Temperature. In *SMM 17: 17th Soft Magnetic Materials Conference, Bratislava, Slovakia, 7 - 9 September 2005*. Programme and Book of Abstracts. Ed. M.Kollár. Bratislava: STU, 2005. p.142, abstr.B-D-20. Poster.
225. SATO TURTELLI, R. - KRENICKÝ, T. - PENTON-MADRIGAL, A. - GRÖSSINGER, R. - ŠKORVÁNEK, I. - SASSIK, H. - SCHÖNHART, M. - BARBATTI, C.F. Magnetic and Structural Characterization of As-Cast and Annealed Melt-Spun  $\text{Fe}_{80-x}\text{Si}_{20}\text{Cr}_x$ . In *SMM 17: 17th Soft Magnetic Materials Conference, Bratislava, Slovakia, 7 - 9 September 2005*. Programme and Book of Abstracts. Ed. M. Kollár. Bratislava: STU, 2005. p.167, abstr.B-D-45. Poster.
226. SATO TURTELLI, R. - SINNECKER, J.P. - PENTON-MADRIGAL, A. - GRÖSSINGER, R. - KRENICKÝ, T. - ŠKORVÁNEK, I. Anunusual Temperature Dependence of the Coercive Field in the Melt-Spun  $\text{Fe}_{80-x}\text{Si}_{20}\text{Nb}_x$  ( $x = 12, 20$ ). In *SMM 17: 17th Soft Magnetic Materials Conference, Bratislava, Slovakia, 7 - 9 September 2005*. Programme and Book of Abstracts. Ed. M.Kollár. Bratislava: STU, 2005. p.168, abstr.B-D-46. Poster.



227. WÓJCIK, M. - JEDRYKA, E. - ŠKORVÁNEK, I. - ŠVEC, P.  $^{59}\text{Co}$  NMR Study of Nanocrystallization Process in Co – Rich HITPERM  $(\text{Fe}_{0,25}\text{Co}_{0,75})_{81}\text{Nb}_7\text{B}_{12}$  alloy. In *SMM 17: 17th Soft Magnetic Materials Conference, Bratislava, Slovakia, 7 - 9 September 2005*. Programme and Book of Abstracts. Ed. M.Kollár. Bratislava: STU, 2005. p.170, abstr. B-D-48. Poster.
228. ZENTKOVÁ, M. - ARNOLD, Z. - ZENTKO, A. - MIHALIK, M. - KOVÁČ, J. - KAVEČANSKÝ, V. - MITRÓOVÁ, Z. - KAMARÁD, J. Magnetic Behaviour of Selected Prussian Blue Analogues. In *SMM 17: 17th Soft Magnetic Materials Conference, Bratislava, Slovakia, 7 - 9 September 2005*. Programme and Book of Abstracts. Ed. M.Kollár. Bratislava: STU, 2005. p.242, abstr.C-X-10. Poster.
229. HAINDL, S. - WEBER, H.W. - ŠEFČIKOVÁ, M. - ZMORAYOVÁ, K. - DIKO, P. - HARI BABU, N. - CARDWELL, D.A. - SHLYK, L. - KRABBES, G. Studies of the cracking behavior in melt-processed YBCO superconductors. In *EUCAS 05: 7th European Conference on Applied Superconductivity, Vienna - Austria, 11 - 15 September 2005*. Poster.
230. ZMORAYOVÁ, K. - DIKO, P. - HAINDL, S. - WEBER, H. - KRABBES, G. Quantitative Study of Oxygenation Cracking in Top-Seeded Melt-Grown Y-Ba-Cu-O Bulk Superconductors. In *PASREG 2005: 5th International Workshop on Processing and Application of Superconducting [RE]BCO Large Grain Materials, October 21 - 23, 2005 Tokyo, Japan*. Abstracts. Abstr.21PPO5.
231. ZMORAYOVÁ, K. - ŠEFČIKOVÁ, M. - DIKO, P. - WEBER, H. - KRABBES, G. Oxygenation cracks in TSMG YBCO bulks. In *ISS 2005: 18th International Symposium on Superconductivity, October 24 - 26, 2005, Tsukuba, Japan*. Program & Abstracts. Poster BLP-56, p.241. Zaslané Physica C.
232. ŠKORVÁNEK, I. - KOVÁČ, J. Magnetic viscosity in soft magnetic nanocrystalline FeNbB alloys. In *50-th Annual Conference on Magnetism and Magnetic Materials, San Jose, CA, USA, Oct. 30 - Nov.3, 2005*. Abstract, p.96. Prednáška.
233. PRISTÁŠ, G. - REIFFERS, M. - BAUER, E. Metal point contacts in proximity of quantum criticality. In *CAMIN' 05: Medzinárodná konferencia o nových materiáloch, mikro- a nanotechnológii v súvislosti s projektami tretej výzvy šiesteho RP, 27 - 29.4. 2005, Smolenice*. Proceedings. Krátka prednáška.
234. DUDÁŠ, J. - GABÁNI, S. - FLACHBART, K. - GOSČIAŇSKA, I. - KAVEČANSKÝ, V. - GUZAN, M. - KONČ, M. Electric charge transport in holmium thin films at low temperatures and in magnetic field. In *PM 2005: The European Conference Physics of Magnetism, June 24 - 27, 2005, Poznań, Poland*. Abstracts. Eds. R.Micnas et al. Poznan: IMP PAS. 2005. Abstr. P-2-06, p.59. Contributions.
235. PRISTÁŠ, G. - REIFFERS, M. - ŠEBEK, J. - ŠANTAVÁ, E. - ANDERSEN, K. - HAMELIN, B. Electron-quasiparticle interaction in van Heusler alloy  $\text{Cu}_2\text{MnAl}$ . In *PM 2005: The European Conference Physics of Magnetism, June 24 - 27, 2005, Poznań, Poland*. Abstracts. Eds. R.Micnas et al. Poznan: IMP PAS. 2005. Abstr. 0-3-01, p.85. Contributions. V tlači Physica status solidi b (2006).
236. REIFFERS, M. - ŠEBEK, J. - ŠANTAVÁ, E. - PRISTÁŠ, G. - KUNII, S. Thermal hysteresis of the phase transition temperature of single crystalline  $\text{Gd}_6\text{B}_6$ . In *PM 2005: The European Conference Physics of Magnetism, June 24 - 27, 2005, Poznań, Poland*. Abstracts. Eds. R.Micnas et al. Poznan: IMP PAS. 2005. Abstr. P-4-17, p.112. Contributions. V tlači Physica status solidi c (2006).
237. PRISTÁŠ, G. - REIFFERS, M. - BAUER, E. Point-contact properties of non-Fermi liquid compounds  $\text{YbCu}_{5-x}\text{Al}_x$  ( $x = 1.3, 1.4$  and  $1.6$ ) in the vicinity of QCP. In *Workshop:*

*COST ECOM- Emergent Behaviour of Correlated Matter P16, 25 - 26 jul 2005, Viedeň.*  
Proceedings of abstracts. p.16. Prednáška.

238. PRISTÁŠ, G. - REIFFERS, M. - BAUER, E. Point-contact properties of non-Fermi liquid compounds  $\text{YbCu}_{5-x}\text{Al}_x$  ( $x = 1.3, 1.4$  and  $1.6$ ) in the vicinity of QCP. In *SCES' 05: International Conference on Strongly Correlated Electron Systems, July 26th – 30th, 2005, Vienna*. Book of abstracts. Poster QC-27, p.22. V tlači *Physica B* (2006).
239. MITO, T. - NAKAMURA, M. - SHIMOIDE, M. - OTANI, M. - KOYAMA, T. - WADA, S. - KOTEGAWA, T.C. - IDZIKOWSKI, B. - REIFFERS, M. - SARRAO, J.L. Study of localized-nonlocalized transition in  $\text{YbXCu}_4$  ( $X = \text{Cu}$  and  $\text{In}$ ). In *SCES' 05: International Conference on Strongly Correlated Electron Systems, July 26th – 30th, 2005, Vienna*. Book of abstracts. Poster HF-55, p.218. V tlači *Physica B* (2006).
240. REIFFERS, M. - IDZIKOWSKI, B. - ŠEBEK, J. - ŠANTAVÁ, E. - ILKOVIČ, S. - PRISTÁŠ, G. Electrical resistivity, susceptibility and heat capacity of cubic Kondo compound  $\text{YbCu}_5$  prepared by melt spinning technique. In *SCES' 05: International Conference on Strongly Correlated Electron Systems, July 26th – 30th, 2005, Vienna*. Book of abstracts. Poster HF-59, p.220. V tlači *Physica B* (2006).
241. FLACHBART, K. - GABÁNI, S. - KAČMARČÍK, J. - MORI, T. - OTANI, S. - PAVLÍK, V. Low Temperature Properties and Superconductivity of  $\text{YB}_6$  and  $\text{YB}_4$ . In *LT 24: 24th International Conference on Low Temperature Physics, 10 - 17 august 2005, Orlando, Florida, USA*.
242. GABÁNI, S. - ANDREJCO, R. - FLACHBART, K. - PADERNO, Y. - PAVLÍK, V. - PRIPUTEN, P. - SHITSEVALOVA, N. – SIEMENSMEYER, K. Transport Properties of  $\text{HoB}_{12}$ . In *LT 24: 24th International Conference on Low Temperature Physics, 10 -17 august 2005, Orlando, Florida, USA*. V tlači AIP Conference Proceedings.
243. MIHALIK, M. Jr. - SECHOVSKÝ, V. - GABÁNI, S. - MIHALIK, M. Low temperature behavior of  $\text{LaRhSn}$  superconductor. In *LT 24: 24th International Conference on Low Temperature Physics, 10-17 august 2005, Orlando, Florida, USA*. Poster.
244. SZABÓ, P. - SAMUELY, P. - HOLANOVÁ, Z. - BUĎKO, S. - CANFIELD, P.C. – MARCUS, J. p-band Goes Dirty by Carbon Doping in  $\text{MgB}_2$ . In *LT 24: 24th International Conference on Low Temperature Physics, 10 - 17 august 2005, Orlando, Florida, USA*. V tlači AIP Conference Proceedings.
245. SAMUELY, P. - SZABÓ, P. - HOLANOVÁ, Z. - BUĎKO, S. - CANFIELD, P.C. - MARCUS, J. Development of Two Superconducting Energy Gaps in the Aluminum Doped  $\text{MgB}_2$ . In *LT 24: 24th International Conference on Low Temperature Physics, 10 - 17 august 2005, Orlando, Florida, USA*. V tlači AIP Conference Proceedings.
246. SIEMENSMEYER, K. - FLACHBART, K. - GABÁNI, S. - MAŤAŠ, S. - PADERNO, Y. - SHITSEVALOVA, N. Magnetic structure of rare earth dodecaborides. *ISBB 2005: 15th International Symposium Boron, Borides and Related Compounds, Hamburg, 21 - 26 August 2005*. V tlači *Journal of Solid State Chemistry*. Prednáška.
247. BRADLEY, D.I. - FISHER, S.N. - GUENAULT, A.M. – HALEY, R.P. – PICKETT, G.R. – SKYBA, P. – TSEPELIN, V. – WHITEHEAD, R.C.V. Refrigeration of Superfluid  $^3\text{He}$  by Aerogel at Ultralow Temperatures. In *COSLAB 2005: ESF COSLAB Network Conference, August 28 - September 4, 2005, Smolenice, Slovakia*.
248. PRISTÁŠ, G. - REIFFERS, M. - BAUER, E. Asymmetry effect in heterocontacts non-Fermi liquid - Cu, Pt. In *15th conference of Slovak and Czech Physicists, 5.9. - 8.9. 2005, SAS, Košice*. Proceedings of abstracts. Eds. J.Kováč, M.Reiffers. Bratislava: SFS, 2005. abstr. S7O3.

249. PRIPUTEN, P. - GABÁNI, S. - FLACHBART, K. - PADERNO, Y. - SHITSEVALOVA, N. Transport properties of rare earth dodecaborides at low temperature. In *15th conference of Slovak and Czech Physicists, 5.9. - 8.9. 2005, SAS, Košice*. Proceedings of abstracts. Eds. J.Kováč, M.Reiffers. Bratislava: SFS, 2005. abstr. S7P2.
250. REIFFERS, M. - IDZIKOWSKI, B. - ŠEBEK, J. - ŠANTAVÁ, E. - ILKOVIČ, S. - PRISTÁŠ, G. Electrical resistivity, susceptibility and heat capacity of cubic kondo compound YbCu<sub>5</sub> prepared by melt spinning technique. In *15th conference of Slovak and Czech Physicists, 5.9. - 8.9. 2005, SAS, Košice*. Proceedings of abstracts. Eds. J. Kováč, M.Reiffers. Bratislava: SFS, 2005. abstr. S7P7.
251. MEDEOVÁ, M. - SKYBA, P. Current source with linearly changed output. In *15th conference of Slovak and Czech Physicists, 5.9. - 8.9. 2005, SAS, Košice*. Proceedings of abstracts. Eds. J. Kováč, M. Reiffers. Bratislava: SFS, 2005. abstr. S8P3.
252. ČLOVEČKO, M. - SKYBA, P. Tuning fork a tool for investigating properties of superfluid <sup>3</sup>He-B. In *15th conference of Slovak and Czech Physicists, 5.9. - 8.9. 2005, SAS, Košice*. Proceedings of abstracts. Eds. J.Kováč, M.Reiffers. Bratislava: SFS, 2005. abstr. S8P4.
253. ILKOVIČ, S. - REIFFERS, M. - PRISTÁŠ, G. Point-contact and transport properties of intermetallic compound YbCu<sub>5</sub>. In *INYS: International Networking for Young Scientists – Workshop on Intermetallics, Superconductors and Quantum Fields at low Temperatures, Stará Lesná, 27.10. - 30.10.2005*. Krátka prednáška.
254. PRISTÁŠ, G. - REIFFERS, M. - BAUER, E. Point-contact properties of YbCu<sub>5-x</sub>Al<sub>x</sub> (x = 1.3 – 1.6) in the vicinity of QCP. In *INYS: International Networking for Young Scientists – Workshop on Intermetallics, Superconductors and Quantum Fields at low Temperatures, Stará Lesná, 27.10. - 30.10.2005*. Krátka prednáška.
255. ČLOVEČKO, M. - KUPKA, M. - SKYBA, P. NMR in non-inertial (rotating) frame in superfluid <sup>3</sup>He-B. In *INYS: International Networking for Young Scientists – Workshop on Intermetallics, Superconductors and Quantum Fields at low Temperatures, Stará Lesná, 27.10. - 30.10.2005*. Krátka prednáška.
256. PRIPUTEN, P. - FLACHBART, K. - GABÁNI, S. - PAVLÍK, V. - PADERNO, Y. - SHITSEVALOVA, N. Transport properties of rare earth dodecaborides at low temperature. In *INYS: International Networking for Young Scientists – Workshop on Intermetallics, Superconductors and Quantum Fields at low Temperatures, Stará Lesná, 27.10. - 30.10.2005*. Krátka prednáška.
257. TABACHNIKOVA, E.D. - BENGUS, V.Z. - NATSIK, V.D. - CSACH, K. - MIŠKUF, J. - STOLYAROV, V.V. - VALIEV, R.Z. Low Temperature Deformation and Failure of Nanostructured Ti-6Al-4V Alloy. In *7th International Conference on Nanostructured Materials, June 20 - 24, 2004, Wiesbaden, Germany. Poster P1.A-18*.
258. TABACHNIKOVA, E.D. - BENGUS, V.Z. - NATSIK, V.D. - CSACH, K. - MIŠKUF, J. - GUNDEROV, D. - STOLYAROV, V.V. - VALIEV, R.Z. Low Temperature Deformation And Failure Of Nanostructured Ti-6Al-4V Alloy. In *NanoHPSPD 04: Nanostructured Materials by High-Pressure Severe Plastic Deformation, September 22 - 26, 2004, Donetsk, Ukraine. Poster P-21*.
259. CSACH, K. - MIŠKUF, J. - JURÍKOVÁ, A. - OCELÍK, V. Creep of residual amorphous phase in Fe<sub>73.5</sub>Nb<sub>3</sub>Cu<sub>1</sub>Si<sub>13.5</sub>B<sub>9</sub>. In *15th conference of Slovak and Czech Physicists, 5.9. - 8.9. 2005, SAS, Košice*. Proceedings of abstracts. Eds. J.Kováč, M. Reiffers. Bratislava: SFS, 2005. abstr.S6P2.

260. JURÍKOVÁ, A. - CSACH, K. - MIŠKUF, J. - OCELÍK, V. Structural relaxation of stress-annealed FeNiB amorphous alloy. In *15th conference of Slovak and Czech Physicists, 5.9. - 8.9. 2005, SAS, Košice*. Proceedings of abstracts. Eds. J.Kováč, M. Reiffers. Bratislava: SFS, 2005. abstr.S6P4.
261. MIŠKUF, J. - CSACH, K. - OCELÍK, V. - TABACHNIKOVA, E.D. - BENGUS, V.Z. - POPEL, P.S. - SIDOROV, V.E. Influence of melt history on the structure of Ni-P glass. In *15th conference of Slovak and Czech Physicists, 5.9. - 8.9. 2005, SAS, Košice*. Proceedings of abstracts. Eds. J.Kováč, M.Reiffers. Bratislava: SFS, 2005. abstr. S6P6.
262. VARGA, M. - KOMOVA, E. - JURÍKOVÁ, A. - VARGA, R. - VOJTANIK, P. Perminvar effect in amorphous and nanocrystalline hitperm alloy. In *15th conference of Slovak and Czech Physicists, 5.9. - 8.9. 2005, SAS, Košice*. Proceedings of abstracts. Eds. J.Kováč, M.Reiffers. Bratislava: SFS, 2005. abstr.S7P9
263. \*\* GWENLAN, C. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) QCD analyses of HERA cross section data. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16 - 22 August, 2004*. hep-ex/0507035.
264. \*\* KLUGE, T. for H1, OPAL and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Prompt Photon Production at HERA and LEP. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16 - 22 August, 2004*. hep-ex/0504007.
265. \*\* BEAUDETTE, F. for ATLAS and CMS Collaboration (-...- BRUNCKO, D. -...- CHYTRÁČEK, R. -...- KLADIVA, E. -...- STRÍŽENEC, P. Top physics prospects at LHC. CMS CR 2005/010. In *40th Rencontres De Moriond On Electroweak Interactions and Unified Theories, 5 - 12 Mar 2005, La Thuile, Aosta Valley, Italy*. hep-ex/0506056.
266. \*\* RAUTENBERG, J. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Measurement of high-Q<sup>2</sup> deep inelastic scattering cross sections with longitudinally polarised positron beams at HERA. In *40th Rencontres De Moriond On Electroweak Interactions and Unified Theories, 5 - 12 Mar 2005, La Thuile, Aosta Valley, Italy*. hep-ex/0506037.
267. \*\* SCHWANENBERGER, C. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Searches for New Physics in ep Collisions at HERA. In *40th Rencontres De Moriond On Electroweak Interactions and Unified Theories, 5 - 12 Mar 2005, La Thuile, Aosta Valley, Italy*. Talk given. hep-ex/0505094.
268. \*\* BLOCH, I. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Studies of Beauty at H1 and ZEUS. In *40th Rencontres de Moriond: QCD and High Energy Hadronic Interactions, La Thuile, Italy, March 12 - 19, 2005*. hep-ex/0506006.
269. \*\* SCHÄTZEL, S. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Measurements of the Structure of Diffraction at HERA. In *40th Rencontres de Moriond: QCD and Hadronic Interactions, La Thuile, Italy, March 12 - 19, 2005*. hep-ex/0505087.
270. \*\* WAGNER, J. for ZEUS and H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Charm production in ep – collisions. In *40th Rencontres de Moriond: QCD and Hadronic Interactions, La Thuile, Italy, March 12 -19, 2005*. hep-ex/0505078.
271. \*\* EFTHYMIPOULOS, I. for ATLAS Collaboration (-...- BRUNCKO, D. -...- CHYTRÁČEK, R. -...- KLADIVA, E. -...- STRÍŽENEC, P. -...-) Elastic Cross-Section

- and Luminosity Measurement in ATLAS at LHC. In *EDS 05: 11th International Conference on Elastic and Diffractive Scattering Château de Blois, France, May 15 – 20, 2005*. hep-ex/0510078.
272. \*\* KAPISHIN, M. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...- TOMASZ, F. -...-) Inclusive Diffractive DIS at HERA. In *11th International Conference on Elastic and Diffractive Scattering, Château de Blois, France, May 15 – 20, 2005*. Talk given. hep-ex/0510037.
273. \*\* BRUNO, G.E. for NA57 Collaboration (-...- BOMBARA, M. -...- JUSKO, A. -...- KRÁLIK, I. -...- PASTIRČÁK, B. -...- ŠAFARÍK, K. -...- ŠÁNDOR, L. -...-) Latest results from the NA57 experiment. In *QCD @ Work 2005: International Workshop on Quantum Chromodynamics Theory and Experiment, June 25 - 29, 2005, Conversano (Bari, Italy)*.
274. \*\* KATKOV, I. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...- TOMASZ, F. -...-) Heavy flavour production in high-energy ep collisions. In *QCD 05: 12th High Energy Physics International Conference on Quantum Chromodynamics, 4 - 9 July 2005, Montpellier, France*. hep-ex/0511004. Talk.
275. \*\* HALLER, J. for ATLAS Collaboration (-...- BÁN, J. -...- BRUNCKO, D. -...- CHYTRÁČEK, R. -...- JUSKO, A. -...- KLADIVA, E. -...- STRÍŽENEC, P. -...-) Discovery Potential of MSSM Higgs Bosons with ATLAS. In *HEP2005: International Europhysics Conference on High Energy Physics (EPS2005), 21 - 27 July 2005, Lissabon, Portugal*. hep-ex/0512042.
276. KRÁLIK, I. Strange particle production in p-Be collisions at 40 GeV/c from the NA57 experiment. In *QM '05: Quark Matter 2005 - 18th International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions, August 4 - 9, Budapest, Hungary*. Programme. Poster 143, p.22.
277. PASTIRČÁK, B. Radiation studies for the ALICE experiment. In *QM '05: Quark Matter 2005 - 18th International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions, August 4 - 9, 2005, Budapest, Hungary*. Programme. Poster 303, p. 27.
278. DAINESE, A. for NA57 Collaboration (-...- BOMBARA, M. -...- JUSKO, A. -...- KRÁLIK, I. -...- PASTIRČÁK, B. -...- ŠAFARÍK, K. -...- ŠÁNDOR, L. -...-) Results from NA57. In *QM '05: Quark Matter 2005 - 18th International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions, August 4 - 9, 2005, Budapest, Hungary*. nucl-ex/0510001.
279. \*\* WANG, M. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...- TOMASZ, F. -...-) Heavy Flavours in High Energy ep Collisions. In *ISMD 2005: 35th International Symposium on Multiparticle Dynamics, Kroměříž, Czech Republic, August 9 - 15, 2005*. hep-ex/0510038.
280. \*\* KLUGE, T. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...- TOMASZ, F. -...-) Studies of heavy flavour production and the hadronic final state in high energy ep collisions. In *HADRON 05: 11th International Conference On Hadron Spectroscopy, 21 - 26 Aug 2005, Rio de Janeiro, Brazil*. hep-ex/0510080.
281. \*\* JANSSEN, X. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...- TOMASZ, F. -...-) Deeply virtual Compton scattering and prompt photon production at ZEUS and H1 experiments. In *PHOTON 2005: International Conference on the Structure and Interactions of the Photon including the 16th*

- International Workshop on Photon-Photon Collisions, 31.8. - 4.9. 2005, Warsaw.* hep-ex/0510072.
282. \*\* TRICOLI, A. for ATLAS Collaboration (-...- BÁN, J. -...- BRUNCKO, D. -...- CHYTRÁČEK, R. -...- JUSKO, A. -...- KLADIVA, E. -...- STRÍŽENEC, P. -...-) Structure Function Measurements at the LHC. In *PHOTON 2005: International Conference on the Structure and Interactions of the Photon including the 16th International Workshop on Photon-Photon Collisions, 31.8. - 4.9. 2005, Warsaw.* hep-ex/0511020.
283. \*\* CONRAD, J. for the SPD project within the ALICE Collaboration (-...- KRIVDA, M. -...- ŠÁNDOR, L. -...-) Beam Test Performance and Simulation of Prototypes for the ALICE Silicon Pixel Detector. In *PSD7: 7th International Conference on Position Sensitive Detectors, Liverpool, England, 12 -16 Sep. 2005.* nucl-ex/0511015.
284. MURÍN, P. European X-ray Free Electron Laser Facility. Status in Slovakia. In *7th Small Triangel Meeting on Theoretical Physics, September 19 - 21, 2005, Snina, Hotel Kamei, Slovak Republic.* Prednáška.
285. ŠÁNDOR, L. Heavy-ion physics at LHC – program ALICE. In *7th Small Triangel Meeting on Theoretical Physics, September 19 - 21, 2005, Snina, Hotel Kamei, Slovak Republic.* Prednáška.
286. CHOCHULA, P. - KAPUSTA, S. - BABIK, M. - JUSKO, A. - KRÁLIK, I. - \*PASTIRČÁK, B. - STRÍŽENEC, P. - ZVADA, M. - ŠTAVINA, P. - ZAGIBA, M. - URBÁN, J. CERN/LHC experimenty ATLAS, ALICE a ich výpočtové nároky na GRID. In *GCCP2005: International Workshop on Grid Computing for Complex Problems, Bratislava, Slovakia, 29 November - 1 December 2005.* Book of abstracts. p.13. Prednáška.
287. BABIK, M. - BRUNCKO, D. - DARANYI, T. - HLUCHY, T. - STRÍŽENEC, P. IEP SAS-Kosice: experiences in running LCG site. In *GCCP2005: International Workshop on Grid Computing for Complex Problems, Bratislava, Slovakia, 29 November - 1 December 2005.* Book of abstracts. p.29. Prednáška.
288. BRUNCKO, D. Meranie lokálnych porúch magnetického poľa Zeme a previerka hypotézy o korelácii medzi fluktuáciami geomagnetického poľa a toku neutrónov, zdrojom ktorých je zemská kôra. In *Medzinárodný workshop KOLOS 2005: Kolonický seminár, 7. - 9.12. 2005, Sninské rybníky a Kolonické sedlo.* Prednáška..
289. BUČÍK, R. ELF waves within Earth's magnetospheric cusp. Searching for hard X-ray enhancements due to LEP. In *Final RTN meeting in Warsaw, Warsaw, Poland, 17 - 18 March, 2005.* Prednáška.
290. BLECKI, J. - CORNILLEAU-WEHR LIN, N. - PARROT, M. - SAVIN, S. - BUČÍK, R. - WRONOWSKI, R. Fan instability in the polar cusp - observations by Cluster and Interball 1. In *EGU General Assembly, Vienna, Austria, 24 - 29 April 2005.* Prednáška.
291. BUČÍK, R. - KUDELA, K. - BOBIK, P. Transmissivity function of cosmic rays in the disturbed magnetosphere. In *EGU General Assembly, Vienna, Austria, 24 - 29 April 2005.* Prednáška.
292. KUDELA, K. - BUČÍK, R. SEP particle penetration into the Earth's magnetosphere. In *ISO WG4 meeting, Toulouse, France, 9 - 10 May 2005.* Prednáška.
293. BLECKI, J. - CORNILLEAU-WEHRLIN, N. - PARROT, M. - SAVIN, S. - BUČÍK, R. - WRONOWSKI, R. Instability of the paralel to the magnetic field beam of energeticelectrons in the polar cusp - theory and observations. In *WDS'05: 14th Annual Student Conference, Charles University, Prague, June 07 - 10, 2005.* Prednáška.

294. SLIVKA, M. - KUDELA, K. - KUZNETSOV, S.N. Some aspects of relativistic electrons dynamic in outer radiation belt during geomagnetic storm time. In *15th conference of Slovak and Czech Physicists, 5.9. - 8.9. 2005, SAS, Košice*. Proceedings of abstracts. Eds. J.Kováč, M.Reiffers. Bratislava: SFS, 2005. abstr. S301.
295. SLIVKA, M. - KUDELA, K. - KUZNETSOV, S.N. Some characteristics of outer radiation belt relativistic electrons on CORONAS-F during January 2005. In *15th conference of Slovak and Czech Physicists, 5.9 - 8.9. 2005, SAS, Košice*. Proceedings of abstracts. Eds. J.Kováč, M.Reiffers. Bratislava: SFS, 2005. abstr. S3P1.
296. BLECKI, J. - CORNILLEAU-WEHRLIN, N. - PARROT, M. - SAVIN, S. - BUČÍK, R. - WRONOWSKI, R. Fan instability in the polar cusp - observations by Cluster and Interball 1. In *PLASMA 2005: International Conference, Opole, Poland, 6 - 9 September 2005*. Prednáška.
297. DZVONÍK, O. - ŠTETIAROVÁ, J. - KUDELA, K. - DAXNER, P. Vplyvy kozmického počasia na niektoré parametre psychickej výkonnosti (chybovosti) leteckých posádok s využitím dát palubného registračného systému „COMAFRA“ u dopravných lietadiel. Effects of cosmic weather on some parameters of psychological efficiency (error rate) of flight crews with the use of data from the „COMAFRA“ flight data recorder of passenger aircraft. In *15. Mezinárodní vědecká konference Bioklimatologie současnosti a budoucnosti, 12. - 14.9.2005, Brno - Křtiny*. Sborník abstraktu s CD Rom. Eds. J. Rožnovský, T.Litschmann. Praha: ČBS, 2005. ISBN80-86690-31-08. p.23. Prednáška.
298. BLECKI, J. - CORNILLEAU-WEHRLIN, N. - PARROT, M. - SAVIN, S. - BUČÍK, R. - WRONOWSKI, R. Instability of the energetic electron beams in the polar cusp - observations by Cluster and Interball 1. In *Cluster and Double Star symposium, 5th anniversary of Cluster in Space, ESA/ESTEC, Noordwijk, The Netherlands, 19 - 23 September, 2005*. Prednáška.
299. BOBIK, P. Primary Helium CR Inside the Magnetosphere: a Transmission Function Study. In *9th ICATPP Conference on Astroparticle, Particle, Space Physics, Detectors and Medical Physics Applications, Villa Olmo, Como 17 - 21 October 2005*. Prednáška.
300. BUČÍK, R. - KUDELA, K. - KUZNETSOV, S.N. - MYAGKOVA, I.N. - YUSHKOV, B.Yu. Lightning induced hard X ray flux enhancements: CORONAS-F observations. In *28th General Assembly of URSI, New Delhi, India, 23 - 29 October, 2005*. Prednáška.
301. KUDELA, K. - BUČÍK, R. - KUZNETSOV, S.N. - LOPEZ, L.I. - SMITH, D.M. Transient gamma-ray emissions related to thunderstorms: Coordinated RHESSI and CORONAS-F observations. In *AGU Fall Meeting 2005, San Francisco, USA, 5 - 9 December, 2005*. Prednáška.
302. ŠTELINA, J. - MUSIL, C. - BRACINÍK, J. - KOPČANSKÝ, P. - TIMKO, M. - KONERACKÁ, M. Influence of the sign of soret constant on the formation and decay of the nanoparticle structures in dispersion fluids. In *APCOM 2005: 32nd International Symposium of the Application of Computers and Operations Research in the Mineral Industry, March 30 - April 1st, 2005, Tucson Arizona*.
303. KOPČANSKÝ, P. - TIMKO, M. - POTOČOVÁ, I. - KONERACKÁ, M. - HNATIC, M. - REPAŠAN, M. - ŠTELINA, J. - MUSIL, C. - VEKAS, L. Light induced structuralization of magnetic particles in magnetic fluids. In *TIMISOARA, Rumunsko, 26.5 - 27.5. 2005*. Rozšírený abstrakt.
304. ČENČARIKOVÁ, H. - FARKAŠOVSKÝ, P. Electronic phase transitions in the two dimensional spin-one-half Falicov-Kimball model. In *PM 2005: The European Conference Physics of Magnetism, June 24 - 27, 2005, Poznań, Poland*. Abstracts. Eds. R. Micnas et al. Poznan: IMP PAS. 2005. Abstr.P-5-03, p.116. Contributions.

305. FARKAŠOVSKÝ, P. - ČENČARIKOVÁ, H. - TOMAŠOVIČOVÁ, N. Ground-states properties of the three-dimensional Falicov-Kimball model. In *PM 2005: The European Conference Physics of Magnetism, June 24 - 27, 2005, Poznaň, Poland*. Abstracts. Eds. R. Micnas et al. Poznan: IMP PAS. 2005. Abstr. P-5-04, p.117. Contributions.
306. KOPČANSKÝ, P. - KONERACKÁ, M. - POTOČOVÁ, I. - TIMKO, M. - JADZYN, J. The study of structural transitions in liquid crystal droplets doped by magnetic particles. In *PM 2005: The European Conference Physics of Magnetism, June 24 - 27, 2005, Poznaň, Poland*. Abstracts. Eds. R. Micnas et al. Poznan: IMP PAS. 2005. Abstr. P-5-07, p.118. Contributions.
307. KOPČANSKÝ, P. - KONERACKÁ, M. - TIMKO, M. - POTOČOVÁ, I. - JADZYN, J. The structural transitions in ferronematics and ferronematic droplets. In *88<sup>th</sup> International Bunsen-Discussion Meeting. Magnetic Colloidal Fluids: Preparation, Characterization, Physical Properties and Applications July 20 – 22, 2005. Saarland University, Saarbrücken Germany. 6th German Ferrofluid-Workshop 2005, Saarland University, Saarbrücken, 20-22.7.2005*. Talks T7, p.22.
308. ČENČARIKOVÁ, H. - FARKAŠOVSKÝ, P. Ground-state phase diagram of the generalized Falicov-Kimball model. In *SCES' 05: International Conference on Strongly Correlated Electron Systems, July 26th – 30th, 2005, Vienna*. Book of abstracts. Poster MH-22, p.83. V tlači Physica B.
309. FARKAŠOVSKÝ, P. - ČENČARIKOVÁ, H. Effects of doping on valence and metal-insulator transitions in the spinless Falicov-Kimball model. In *SCES' 05: International Conference on Strongly Correlated Electron Systems, July 26th – 30th, 2005, Vienna*. Book of abstracts. Poster MH-23, p.84.
310. JURČIŠIN, M. - \*STEHLÍK, M. D-dimensional developed MHD turbulence: Double expansion model. In *RG 2005: Renormalization Group 2005, Helsinki, Finland, 30 August - 3 September 2005*. Prednáška. V tlači J.Phys.A.
311. HNATIC, M. - JURČIŠINOVÁ, E. - \*JURČIŠIN, M. - REPAŠAN, M. Influence of compressibility on the scaling regimes of a passive scalar advected by turbulent velocity field with finite correlation time (Two-loop RG-analysis). In *RG 2005: Renormalization Group 2005, Helsinki, Finland, 30 August - 3 September 2005*. Prednáška. V tlači J.Phys.A.
312. CHKHETIANI, O. - \*HNATIC, M. - JURČIŠINOVÁ, E. - JURČIŠIN, M. - MAZZINO, A. - REPAŠAN, M. Influence of helicity on scaling regimes in the extended Kraichnan model. In *RG 2005: Renormalization Group 2005, Helsinki, Finland, 30 August - 3 September 2005*. Prednáška. V tlači J.Phys.A.
313. ŠTELINA, J. - MUSIL, C. - BRACINÍK, J. - KOPČANSKÝ, P. - TIMKO, M. - KONERACKÁ, M. Arise of nanoparticle structuralization in the disperse liquid. In *15th conference of Slovak and Czech Physicists, 5. - 8.9. 2005, SAS, Košice*. Proceedings of abstracts. Eds. J.Kováč, M.Reiffers. Bratislava: SFS, 2005. abstr. S6P8.
314. ŽONDA, M. - FARKAŠOVSKÝ, P. - ČENČARIKOVÁ, H. Ground state properties of the spin-one-half Falicov-Kimball model in two dimensions. In *15th conference of Slovak and Czech Physicists, 5. - 8.9. 2005, SAS, Košice*. Proceedings of abstracts. Eds. J.Kováč, M.Reiffers. Bratislava: SFS, 2005. abstr. S7P4.
315. ČLOVEČKO, M. - KUPKA, M. - SKYBA, P. A new collective mode of spin precession in superfluid  $^3\text{He-B}$ . In *15th conference of Slovak and Czech Physicists, 5. -8.9. 2005, SAS, Košice*. Proceedings of abstracts. Eds. J.Kováč, M.Reiffers. Bratislava: SFS, 2005. abstr. S8O3.



316. KOPČANSKÝ, P. - KONERACKÁ, M. - TIMKO, M. - POTOČOVÁ, I. - TOMČO, L. - TOMAŠOVIČOVÁ, N. - ZÁVIŠOVÁ, V. - JADZYN, J. The structural transitions in ferromagnetic droplets. In *CLC 2005: 16th Conference on Liquid Crystals (Chemistry, Physics & Applications), Stare Jablonki, 18 – 21 September, 2005, Poland*. Programme & Abstracts. Ed. P.Perkowski. Warsaw: 2005. Poster B23, p.107.
317. HNATICH, M. - JURČIŠINOVÁ, E. - JURČIŠIN, M. - REPAŠAN, M. Combine effects of compressibility and helicity on the scaling regimes of a passive scalar advected by turbulent velocity field with finite correlation time. In *7th Small Triangel Meeting on Theoretical Physics, September 19 - 21, 2005, Snina, Hotel Kamei, Slovak Republic*. Prednáška.
318. PINČÁK, R. The electronic spectra of fullerene molecules. In *7th Small Triangel Meeting on Theoretical Physics, September 19 – 21, 2005, Snina, Hotel Kamei, Slovak Republic*. Prednáška.
319. JURČIŠIN, M. Toy models of developed turbulence. In *7th Small Triangel Meeting on Theoretical Physics, September 19 – 21, 2005, Snina, Hotel Kamei, Slovak Republic*. Prednáška.
320. REPAŠAN, M. Advection of passive scalar in anisotropic and helical stochastic environment. In *7th Small Triangel Meeting on Theoretical Physics, September 19 – 21, 2005, Snina, Hotel Kamei, Slovak Republic*. Prednáška.
321. NEMCHIK, J. Propagation of a parton through nuclear matter. In International Workshop „Parton Propagation through Strongly Interacting Matter“ ECT, Trento, Sept. 26 – Oct. 7, 2005, Italy. Prednáška.
322. MARTON, K. - TOMČO, L. - KOPČANSKÝ, P. - HERCHL, F. - TIMKO, M. – KONERACKÁ, M. The development of electric breakdown in magnetic fluids in combined magnetic and electric fields. In *X Sympozjum „Problemy eksploatacji układow izolacyjnych wysokiego napęcia“*, Krynica, 27 - 30.9. 2005. Abstrakt.

## 15.Ostatné prednášky a vývesky

323. HAJKO, V. Jr. Research of the Nano-Structured Materials at the Department of the Metal Physics of IEP SAS: Structure and Physico-mechanical Properties of the Amorphous and Nanocrystalline alloys. In *NENAMAT: Mobilization Workshop – Slovakia, 13-16 February 2005, Stará Lesná, Slovakia*. Zborník abstraktov. p.8. Prednáška.
324. DIKO, P. Research of Nanostructured materials at the Group of Ceramic Superconductors and Nanomaterials of IEP SAS. In *NENAMAT: Mobilization Workshop – Slovakia, 13 - 16. February 2005, Stará Lesná, Slovakia*. Zborník abstraktov. p.13. Prednáška. Poster.
325. KOPČANSKÝ, P. - TIMKO, M. - KONERACKÁ, M. - POTOČOVÁ, I. The role of magnetic nanoparticles in various composite systems. In *NENAMAT: Mobilization Workshop - Slovakia, 13 - 16 February 2005, Stará Lesná, Slovakia*. Zborník abstraktov. p.15. Poster.
326. ŠKORVÁNEK, I. Nanostructured Magnetic Materials Group at IEP SAS: Nanoparticles, Nanocapsules and Composite Nano-Materials. In *NENAMAT: Mobilization Workshop – Slovakia, 13 - 16. February 2005, Stará Lesná, Slovakia*. Zborník abstraktov. p.20. Prednáška.

327. ALÁČOVÁ, A. - BALÁŽ, P. - GODOČÍKOVÁ, E. - KOVÁČ, J. - ŠKORVÁNEK, I. - JIANG, J.Z. Study of magnetic properties by pyrite - troilite transformation via high energy. In *NENAMAT: Mobilization Workshop – Slovakia, 13 - 16. February 2005, Stará Lesná, Slovakia*. Zborník abstraktov. p.23. Poster.
328. DEANKO, M. - KEPAPTSOGLU, D.M. - MULLER, D. - JANIČKOVIČ, D. - ŠKORVÁNEK, I. - ŠVEC, P. Identification and quantification of microstructures formed during nanocrystallization of amorphous (Fe-Co)Nb(Si-B) systems. In *NENAMAT: Mobilization Workshop – Slovakia, 13 - 16. February 2005, Stará Lesná, Slovakia*. Zborník abstraktov. p.26. Poster.
329. GODOČÍKOVÁ, E. - BALÁŽ, P. - ALÁČOVÁ, A. - ŠKORVÁNEK, I. - KOVÁČ, J. - JIANG, J.Z. Properties of nanocrystalline magnetic pyrrhotite prepared by high-energy milling. In *NENAMAT: Mobilization Workshop – Slovakia, 13 - 16. February 2005, Stará Lesná, Slovakia*. Zborník abstraktov. p.30. Poster.
330. ŠKORVÁNEK, I. - SI, P.Z. - KOVÁČ, J. - ZHANG, M. - ZHAO, X.G. – ZHANG, Z.D. Magnetocaloric effect in dysprosium oxide passivated Dy nanoparticles. In *NENAMAT: Mobilization Workshop – Slovakia, 13 - 16. February 2005, Stará Lesná, Slovakia*. Zborník abstraktov. p.37. Poster.
331. KRENICKÝ, T. - MARCIN, J. - ŠVEC, P. - GERLING, R. – ŠKORVÁNEK, I. Magnetic and mechanical properties of amorphous and nanocrystalline FeCoNbB alloys. In *NENAMAT: Mobilization Workshop – Slovakia, 13 - 16. February 2005, Stará Lesná, Slovakia*. Zborník abstraktov. p.38. Poster.
332. ŠEFČÍKOVÁ, M. - DIKO, P. - BABU, H. - CARDWELL, D. Nanoparticles Created in Complex Alloyed YBCO Superconductors. In *NENAMAT: Mobilization Workshop – Slovakia, 13 - 16. February 2005, Stará Lesná, Slovakia*. Zborník abstraktov. p.46.
333. TIMKO, M. - KOPČANSKÝ, P. - KONERACKÁ, M. - POTOČOVÁ, I. - ZÁVIŠOVÁ, V. The application of magnetic fluids in biomedicine and biotechnologies. In *NENAMAT: Mobilization Workshop – Slovakia, 13 - 16. February 2005, Stará Lesná, Slovakia*. Zborník abstraktov. p.47. Poster.
334. ZMORAYOVÁ, K. - DIKO, P. - BABU, H. - CARDWELL, D. Platelet nanoparticles in YBCO bulk superconductors nucleated on uranium based phase. In *NENAMAT: Mobilization Workshop – Slovakia, 13 - 16. February 2005, Stará Lesná, Slovakia*. Zborník abstraktov. p.50.
335. KONERACKÁ, M. Feronematiká. Prednáška - Fyzikální ústav AVČR, Na Slovance 2, Praha.
336. KAVEČANSKÝ, V. Štúdium štruktúry silne neusporiadaných systémov. In *RPDK: Regionálna prášková difrakčná konferencia, Liptovský Mikuláš, 21. – 23. septembra 2005*. Prednáška.
337. LYSÁK, R. Meranie hmotnosti top kvarku v CDF experimente. In *Seminár Sekcie fyziky elementárnych častíc FZÚ AV ČR, Praha, 10.11.2005*.
338. BRUNCKO, D. Spojitosť mikrosвета s makrosvetom. In *Dni astronómie, Humenné, marec 2005*. Prednáška.

## 18.Vydané alebo editované zborníky z vedeckých podujatí

339. 15th Conference of Slovak and Czech Physicists, SAS, Košice, 5. – 8. 9.2005. Proceedings of abstracts. Eds. J.Kováč, M.Reiffers. Bratislava: SFS, 2005. nestr.
340. HADRON STRUCTURE 2004: Proceedings of the International Conference, Smolenice Castle, Slovak Republic, 30 August – 3 September 2004. Eds. S. Dubníčka, A.Z. Dubníčková, P. Stríženec, J. Urbán. Košice: UPJŠ, 2005. 260 s. ISBN 80-7097-590-3.

## 20.Vedecké práce uverejnené na internete

### a/ v cudzom jazyku

341. H1 Collaboration (AKTAS, A. -...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...) A Determination of Electroweak Parameters at HERA. In *Preprint DESY-05-093*. hep-ex/0507080. Submitted to Phys.Lett.B
342. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Forward Jet Production in Deep Inelastic Scattering at HERA. In *Preprint DESY 05-135*. hep-ex/0508055. Submitted to Eur.Phys.J.C.
343. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- -...- MURÍN, P. -...- TOMASZ, F. -...-) Elastic J/Psi Production at HERA. In *Preprint DESY 05-161*. hep-ex/0510016. Submitted to Eur.J.C.
344. H1 Collaboration (AKTAS, A. -...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...- TOMASZ, F. -...-) Measurement of Event Shape Variables in Deep-Inelastic Scattering at HERA. In *Preprint DESY-05-225*. hep-ex/0512014. Submitted to Eur.Phys.J.C.
345. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...- TOMASZ, F. -...-) First Measurement of Charged Current Cross Sections at HERA with Longitudinally Polarised Positrons. In *Preprint DESY 05-249*. hep-ex/0512060. Submitted to Phys.Lett.B.
346. \*\* LENISA, P. - RATHMANN, F. for PAX Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...-) Antiproton-Proton Scattering Experiments with Polarization. In *hep-ex/0505054*. Technical Proposal.
347. \*\* TARGETT-ADAMS, C. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Structure functions and parton distribution functions at the HERA ep collider. In *hep-ex/0507024*.