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### Knižné odborné publikácie vydané doma

1. Space Research in Slovakia 2002-2003. Eds. K.Kudela, J.Feranec, L.Macho. Košice: SAV, COSPAR Slovak National Committee, ÚEF SAV, 2004. 59 s. ISBN 80-968060-1-7

### Kapitoly vo vedeckých monografiách vydaných v zahraničí

2. KUDELA, K. Solar neutron observations: contribution of IEP SAS to the study. In *Cosmic Rays and Dark Matter: International Conference on Cosmic Rays and Dark Matter, July 28-30, 2003*. Tokyo: Universal Academy Press, Inc., 2004. Ed. Y. Muraki. ISBN 4-946443-84-3. p.93-101.

### Vedecké práce v časopisoch evidovaných v Current Contents

3. DROZD, V. - PEKALA, M. - KOVÁČ, J. - ŠKORVÁNEK, I. - SZYMANSKI, M. - NEDILKO, S. Structure and Transport Properties of  $\text{La}_{0.75-x}\text{RE}_x\text{Ca}_{0.25}\text{MnO}_3$  (RE = Gd, Dy, Ho;  $0 < x < 0.75$ ) Manganites. Proceedings of the School Superconductivity and Other Phenomena in Perovskites, Warsaw 2004. In *Acta Physica Polonica A*. Vol.106, no.5 (2004), p.751-758. ( 0.495 - IF2004 )
4. \*\* ŠÁNDOR, L. for NA57 Collaboration (ANTINORI, F. -...- BOMBARA, M. -...- JUSKO, A. -...- KRÁLIK, I. -...- PASTIRČÁK, B. -...- ŠAFAŘÍK, K. -...- ŠÁNDOR, L. -...-) Strange baryon production in Pb-Pb interactions at CERN SPS. Proceedings of the 33th International Symposium on Multiparticle Dynamics, Krakov, Poland, September 5-11, 2003. In *Acta Physica Polonica B*. Vol.35, no.1 (2004), p.197-202. ( 0.687 - IF2004 )
5. BRADNOVA, V. - CHERNYAVSKY, M.M. - GAITINOV, A.S. - GONACHAROVA, L.A. - JUST, L. - KHARLAMOV, S.P. - KOVALENKO, A.D. - HAIDUC, M. - LARIONOVA, V.G. - LEPEKHIN, F.G. - MALAKHOV, A.I. - ORLOVA, G.I. - PERESADKO, N.G. - POLUKHINA, N.G. - RUKOYATKIN, P.A. - RUSAKOVA, V.V. - SALMANOVA, N.A. - SIMONOV, B.B. - VOKAL, S. - ZARUBIN, P.I. - ZARUBINA, I.G. Studies of light nucleus clustering in relativistic multifragmentation processes. In *Acta Physica Slovaca*. Vol.54, no.4 (2004), p.351-365. ( 0.513 - IF2004 )
6. IDZIKOWSKI, B. - GRENECHE, J.M. - SZAJEK, A. - KOVÁČ, J. Nanogranular  $\text{Fe}_x\text{Ni}_{23-x}\text{B}_6$  phase formation during devitrification of nickel-rich

- Ni<sub>64</sub>Fe<sub>16</sub>Zr<sub>7</sub>B<sub>12</sub>Au<sub>1</sub> amorphous alloy. In *Applied Physics Letters*. Vol.85, no.8 (2004), p. 1392-1394. ( 4.308 - IF2004 )
7. JEADRYKA, E.- WOJCIK, M. - ŠVEC, P. - ŠKORVÁNEK, I. Nanocrystallization of FeCoZrB alloys studied by Co-59 nuclear magnetic resonance. In *Applied Physics Letters*. Vol.85, no.14 (2004), p.2884-2886. ( 4.308 - IF2004 )
  8. VARHAČ, R. - ANTALÍK, M. Determination of the pK for the acid-induced denaturation of ferrocytochrome c. In *Biochemistry*. Vol.43, no.12 (2004), p.3564-3569. ( 4.008 - IF2004 )
  9. FEDURCO, M. - AUGUSTYNSKI, J. - INDIANI, C. - SMULEVICH, - ANTALÍK, M. - BÁNÓ, M. - SEDLÁK, E. - LAMCZYK, M.C. - DAWSON, J.H. The heme iron coordination of unfolded ferric and ferrous cytochrome c in neutral and acidic urea solutions. Spectroscopic and electrochemical studies. In *Biochimica et Biophysica Acta - Proteins and Proteomics*. Vol.1703, no.1 (2004), p.31-41. ( 2.113 - IF2004 )
  10. VESELOVSKY, I.S. - PANASYUK, M.I. - AVDYUSHIN, S.I. - BAZILEVSKAYA, G.A. - BELOV, A.V. - BOGACHEV, S.A. - BOGOD, V.M. - BOGOMOLOV, A.V. - BOTHMER, V. - BOYARCHUK, K.A. - VASHENYUK, E.V. - VLASOV, V.I. - GNEZDILOV, A.A. - GORGUTSA, R.V. - GRECHNEV, V.V. - DENISOV, Yu.I. - DMITRIEV, A.V. - DRYER, M. - YERMOLAEV, Yu.I. - EROSHENKO, E.A. - ZHEREBTSOV, G.A. - ZHITNIK, I.A. - ZHUKOV, A.N. - ZASTENKER, G.N. - ZELENYI, L.M. - ZELDOVICH, M.A. - IVANOV-KHOLODNYI, G.S. - IGNAŤEV, A.P. - ISHKOV, V.N. - KOLOMIYTSEV, O.P. - KRASHENINNIKOV, I.A. - KUDELA, K. - KUZHEVSKY, B.M. - KUZIN, S.V. - KUZNETSOV, V.D. - KUZNETSOV, S.N. - KURT, V.G. - LAZUTIN, L.L. - LESHCHENKO, L.N. - LITVAK, M.L. - LOGACHEV, Yu.I. - LAWRENCE, G. - MARKEEV, A.K. - MAKHMUTOV, V.S. - MITROFANOV, A.V. - MITROFANOV, I.G. - MOROZOV, O.V. - MYAGKOVA, I.N. - NUSINOV, A.A. - OPARIN, S.N. - PANASENCO, O.A. - PERTSOV, A.A. - PETRUKOVICH, A.A. - PODOROĚSKY, A.N. - ROMASHETS, E.P. - SVERTILOV, S.I. - SVIDSKY, P.M. - SVIRZHEVSKAYA, A.K. - SVIRZHEVSKY, N.S. - SLEMZIN, V.A. - SMITH, Z. - SOBELMAN, I.I. - SOBOLEV, D.E. - STOZHKOVA, Yu.I. - SUVOROVA, A.V. - SUKHODREV, N.K. - TINDO, I.P. - TOKHCHUKOVA, S.Kh. - FOMICHEV, V.V. - CHASHEY, I.V. - CHERTOK, I.M. - SHISHOV, V.I. - YUSHKOV, B.Yu. - YAKOVCHOUK, O.S. - YANKE, V.G. Solar and Heliospheric Phenomena in October-November 2003: Causes and Effects. In *Cosmic Research*. Vol.42, no.5 (2004), p.435-488 (Kosmičeskije issledovanija. Vol.42, no.5 (2004), p.453-508.) ( 0.336 - IF2004 )
  11. KUDELA, K. - USOSKIN, I.G. On magnetospheric transmissivity of cosmic rays. In *Czechoslovak Journal of Physics*. Vol. 54, no.2 (2004), p.239-254. ( 0.292 - IF2004 )
  12. ŠTERBÁKOVÁ, K. - ZENTKOVÁ, A. - ZENTKO, A. The Barkhausen effect and the anomalous magnetization losses in metallic ferromagnets. CSMAG 04: Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D55-58. ( 0.292 - IF2004 )
  13. MIGLIERINI, M. - KAŇUCH, T. - KRENICKÝ, T. - ŠKORVÁNEK, I. Magnetic and Mössbauer studies of Fe<sub>76</sub>Mo<sub>8</sub>Cu<sub>1</sub>B<sub>15</sub> nanocrystalline alloy. CSMAG 04: Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D73-76. ( 0.292 - IF2004 )

14. LOVAS, K. - BÁN, K. - KOVÁČ, J. - ZAGYI, B. New effects and interpretation of amorphous Curie point relaxation in FeNi-based metallic glasses. CSMAG 04: Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D89-92. ( 0.292 - IF2004)
15. OLEKŠÁKOVÁ, D. - FÜZER, J. - KOLLÁR, P. - ŠVEC, T. - KOVÁČ, J. - BRIANČIN, J. - POLANSKI, K. Structure and magnetic properties of powder permalloy FeNi. CSMAG 04: Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D93-96. ( 0.292 - IF2004)
16. CSACH, K. - MIŠKUF, J. - JURÍKOVÁ, A. - OCELÍK, V. Creep of FINEMET ribbons during crystallization. CSMAG 04: Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D97-100. ( 0.292 - IF2004)
17. VOJTANIK, P. - ANDREJCO, R. - VARGA, R. - KOVÁČ, J. - CSACH, K. - LOVAS, A. Magnetic and structural properties of amorphous Co-Cr-Si-B alloys. CSMAG 04: Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D113-116. ( 0.292 - IF2004)
18. BALÁŽ, P. - GODOČÍKOVÁ, E. - ALÁČOVÁ, A. - ŠKORVÁNEK, I. - KOVÁČ, J. - JIANG, J.Z. Magnetic properties of nanocrystalline pyrrhotite prepared by high-energy milling. CSMAG 04: Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D121-124. ( 0.292 - IF2004)
19. BÁRDOS, A. - LOVAS, A. - JANOVSZKY, D. - KOVÁČ, J. - VARGA, L.K. The influence of thermal history on the crystallization properties of Fe<sub>70.7</sub>Cr<sub>6.7</sub>P<sub>10.4</sub>B<sub>5</sub>Si<sub>1.1</sub>Mn<sub>0.1</sub>Cr<sub>2</sub>Mo<sub>2</sub>Ga<sub>2</sub> bulk glasses. CSMAG 04: Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D125-128. ( 0.292 - IF2004)
20. JURÍKOVÁ, A. - CSACH, K. - MIŠKUF, J. - OCELÍK, V. Creep recovery of metallic glass Fe-Ni-B after longtime stress-annealing. CSMAG 04: Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D129-132. ( 0.292 - IF2004)
21. MIŠKUF, J. - CSACH, K. - OCELÍK, V. - TABACHNIKOVA, E.D. - BENGUS, V.Z. - POPEL, P.S. - SIDOROV, V.E. Influence of thermal treatment of Ni-P melt on structure of amorphous alloys. CSMAG 04: Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D133-136. ( 0.292 - IF2004)
22. BÁN, K. - LOVAS, A. - NOVÁK, L. - CSACH, K. The influence of low temperature treatments on the H solubility and the Curie temperature of Fe-b based glasses. CSMAG 04: Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism,

- July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D137-140. ( 0.292 - IF2004)
23. BÁN, K. - LOVAS, A. - KOVÁČ, J. Cryogenic effects in the amorphous Curie temperature shift of Fe-based glassy alloys. CSMAG 04: Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D141-144. ( 0.292 - IF2004)
  24. KOVALÁKOVÁ, M. - NOVÁK, L. - LOVAS, A. - KOVÁČ, J. Study of influence of chromium admixture on hydrogenation and dehydrogenation of FeB amorphous ribbons. CSMAG 04: Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D149-152. ( 0.292 - IF2004)
  25. ANDREJCO, R. - VARGA, R. - VOJTANÍK, P. Magnetic after-effect in amorphous Co-Fe-Si-B wire. CSMAG 04: Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D153-156. ( 0.292 - IF2004)
  26. KRENICKÝ, T. - MARCIN, J. - ŠKORVÁNEK, I. - ŠVEC, P. Magnetic properties of FeCoNbB nanocrystallines alloys heat treated under longitudinal magnetic field. CSMAG 04: Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D185-188. ( 0.292 - IF2004)
  27. ŠKORVÁNEK, I. - KOVÁČ, J. Magnetocaloric behaviour in amorphous and nanocrystalline FeNbB soft magnetic alloys. CSMAG 04: Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D189-192. ( 0.292 - IF2004)
  28. BALÁŽ, P. - ALÁČOVÁ, A. - GODOČÍKOVÁ, E. - KOVÁČ, J. - ŠKORVÁNEK, I. - JIANG, J.Z. Study of magnetic properties of nano-powders prepared by pyrite -> troilite transformation via high energy milling. CSMAG 04: Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D197-200. ( 0.292 - IF2004)
  29. DUDÁŠ, J. - GUZAN, M. - GABÁNI, S. - KAVEČANSKÝ, V. - FLACHBART, K. - KONČ, M. - GOSCIANSKA, I. Electric charge transport anomalies in holmium and thulium thin films at low temperatures. CSMAG 04: Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D253-256. ( 0.292 - IF2004)
  30. SIEMENSMEYER, K. - MAŤAŠ, S. - MEISSNER, M. - GABÁNI, S. - BAŤKO, I. - FLACHBART, K. - CZOPNIK, A. - PADERNO, Y. - SHITSEVALOVA, N. Intricate magnetic properties of some rare earth dodecaborides. CSMAG 04: Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D273-278. ( 0.292 - IF2004)
  31. MIHALIK, M.Jr. - SVOBODA, P. - RUSZ, J. - SECHOVSKÝ, V. - MIHALIK, M. Magnetic properties of selected RFe<sub>2</sub>Si<sub>2</sub> compounds. CSMAG 04: Proceedings of the

- 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D283-286. ( 0.292 - IF2004)
32. TOLINSKI, T. - KOWALCZYK, A. - IVANOV, V. - CHELKOWSKA, G. - TIMKO, M. Mixed-valence and Kondo-like effect in  $\text{CeNi}_4\text{X}$  ( $\text{X} = \text{B}, \text{Al}, \text{Ga}$ ). CSMAG 04: Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D287-290. ( 0.292 - IF2004)
33. MIHALIK, M. - KAVEČANSKÝ, V. - WOCHOWSKI, K. - TROC, R. - ROGL, P. Magnetic properties of  $(\text{U}_{1-x}\text{Th}_x)_3\text{Al}_2\text{M}_3$  compounds. CSMAG 04: Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D303-306. ( 0.292 - IF2004)
34. HUDÁKOVÁ, N. - FARKAŠOVSKÝ, P. - FLACHBART, K. - PADERNO, Y. - SHITSEVALOVA, N. Temperature dependence of the infrared properties of  $\text{SmB}_6$ . CSMAG 04: Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D339-342. ( 0.292 - IF2004)
35. SZLAFEREK, A. - KOWALCZYK, A. - ANDRZEJEWSKI, B. - TIMKO, M. - KOVÁČ, J. - BRIANČIN, J. Effect of mechanical alloying on the structural and magnetic properties of  $\text{DyNi}_4\text{Al}$  compounds. CSMAG 04: Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D371-374. ( 0.292 - IF2004)
36. PRISTÁŠ, G. - REIFFERS, M. - GABÁNI, S. - FLACHBART, K. - RADULEV, I. - SIEMENSMEYER, K. - PADERNO, Yu. - SHITSEVALOVA, N. Electron-quasiparticle interaction in  $\text{HoB}_{12}$ . CSMAG 04: Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D375-378. ( 0.292 - IF2004)
37. PEKALA, M. - DROZD, V. - KOVÁČ, J. - ŠKORVÁNEK, I. Magnetic characterization of  $\text{La}_{0.75-x}\text{Gd}_x\text{Ca}_{0.25}\text{MnO}_3$  manganites. CSMAG 04: Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D415-418. ( 0.292 - IF2004)
38. FARKAŠOVSKÝ, P. Ferromagnetism in the Hubbard model with long-range and correlated hopping. CSMAG 04: Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D419-422. ( 0.292 - IF2004)
39. ČENČARIKOVÁ, H. - FARKAŠOVSKÝ, P. Thermodynamics of the Falicov-Kimball model in the weak coupling limit. CSMAG 04: Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D423-426. ( 0.292 - IF2004)

40. DIKO, P. Oxygenation induced cracking in YBCO bulk superconductors. CSMAG 04: Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D445-448. Prednáška. ( 0.292 - IF2004)
41. SZABÓ, P. - SAMUELY, P. - KAČMARČÍK, J. - LYARD, L. - KLEIN, T. - MARCUS, J. - MARCENAT, C. Two-band effects in the critical fields of MgB<sub>2</sub>. CSMAG 04: Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D449-452. ( 0.292 - IF2004)
42. HOLANOVÁ, Z. - SZABÓ, P. - KAČMARČÍK, J. - SAMUELY, P. - DELLA ROCA, M.L. - MARITATO, L. Point-contact spectroscopy on Nb/CuMn bilayers. CSMAG 04: Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D465-468. ( 0.292 - IF2004)
43. ZMORAYOVÁ, K. - ŠEFČÍKOVÁ, M. - DIKO, P. - BABU, N.H. - CARDWELL, D.A. New pinning centres in YBCO bulk superconductors with depleted uranium addition. CSMAG 04: Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D469-472. ( 0.292 - IF2004)
44. ŠEFČÍKOVÁ, M. - ZMORAYOVÁ, K. - DIKO, P. - BABU, N.H. - CARDWELL, D.A. Nanosized pinning centers in YBCO bulk superconductors with complex alloying. CSMAG 04: Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D473-476. ( 0.292 - IF2004)
45. BUNDA, V. - BUNDA, S. - KOVÁČ, J. Coexisting of the magnetic ordering and superconductivity in a fluorine and iodine doped bismut-2234 HTSC. CSMAG 04: Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D477-480. ( 0.292 - IF2004)
46. KAČMARČÍK, J. - SZABÓ, P. - SAMUELY, P. - RODRIGO, J.G. - SUDEROW, H. - VIEIRA, S. - LAFOND, A. - MEERSCHAUT, A. Scanning tunnelling microscopy and spectroscopy of (LaSe)<sub>1.14</sub>(NbSe<sub>2</sub>) at very low temperature and in magnetic field. CSMAG 04: Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D489-492. ( 0.292 - IF2004)
47. ZENTKOVÁ, M. - MIHALIK, M. - ARNOLD, Z. - KAMARÁD, J. - BALANDA, M. - PODGAJNY, R. - SIEKLUCKA, B. High pressure effect on ferromagnetic ordering in layered copper octacyanotungstate. CSMAG 04: Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D527-530. (0.292 - IF2004)
48. SENDEK, M. - ZENTKO, A. - MIHALIK, M. - ZENTKOVÁ, M. - MITRÓOVÁ, Z. - KAVEČANSKÝ, V. - BOKOR, M. - MARYŠKO, M. Magnetic properties and <sup>1</sup>H NMR study of TM<sub>2</sub><sup>2+</sup>[Mo<sup>IV</sup>(CN)<sub>8</sub>].nH<sub>2</sub>O. CSMAG 04: Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice:

- UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D551-554. ( 0.292 - IF2004)
49. MITRÓOVÁ, Z. - MIHALIK, M. - ZENTKO, A. - LUKÁČOVÁ, M. - MIHALIK, M.Jr. - VEJPRAVOVÁ, J. - KISS, L.F. Magnetic properties and heat capacity of selected  $\text{Ln}[\text{Fe}(\text{CN})_6]_n\text{H}_2\text{O}$  compounds. CSMAG 04: Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D559-562. ( 0.292 - IF2004)
50. KAVEČANSKÝ, V. - MIHALIK, M. - MITRÓOVÁ, Z. - LUKÁČOVÁ, M. - MAŤAŠ, S. Neutron diffraction study of crystal and magnetic structure of  $\text{Dy}[\text{Fe}(\text{CN})_6] \cdot 4\text{D}_2\text{O}$ . Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D571-574. ( 0.292 - IF2004)
51. TIMKO, M. - KONERACKÁ, M. - KOPČANSKÝ, P. - RAMCHAND, C.N. - VÉKAS, L. - BICA, D. Application of magnetizable complex systems in biomedicine. Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D599-606. ( 0.292 - IF2004)
52. BAŤKO, I. - BAŤKOVÁ, M. Calorimetric tunneling spectroscopy as a perspective tool for derivation of energy-spectroscopic information in electrically conductive solids. Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D619-622. ( 0.292 - IF2004)
53. SKUMIEL, A. - JÓZEFCZAK, A. - TIMKO, M. - KOPČANSKÝ, P. - KONERACKÁ, M. The effect of a magnetic field on the absorption coefficient of ultrasonic wave in biocompatible ferrofluid. Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D651-654. ( 0.292 - IF2004)
54. TUREK, I. - ŠTELINA, J. - MUSIL, C. - BRACINÍK, J. - KOPČANSKÝ, P. - TIMKO, M. - HNATIC, M. - REPAŠAN, M. - POTOČOVÁ, I. - VÉKAS, L. - BICA, D. Light-induced structuralization in magnetic fluids with negative Soret constant. Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D655-658. ( 0.292 - IF2004)
55. KOPČANSKÝ, P. - KONERACKÁ, M. - TIMKO, M. - POTOČOVÁ, I. - MARTON, K. - TOMČO, L. The dielectric breakdown strength of magnetic fluids based on transformer oil. Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D659-662. ( 0.292 - IF2004)
56. GABÁNI, S. - PAVLÍK, V. - FLACHBART, K. - VARGA, J. - PIETRIKOVÁ, A.  $\text{RuO}_2$ -based low temperature sensors with "tuned" resistivity dependencies. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), p.D663-666. ( 0.292 - IF2004)

57. TÚNYI, I. - GUBA, P. - ROTH, L.E. - TIMKO, M. Electric discharges in the protoplanetary nebula as a source of impulse magnetic fields to promote dust aggregation. In *Earth, Moon and Planets*. Vol.93 (2003), p.65-74. ( 0.418 - IF2003)
58. MARSALA, M. - KAKINOHANA, O. - YAKSH, T.L. - TOMORI, Z. - MARSALA, S. - CIZKOVA, D. Spinal implantation of hNT neurons and neuronal precursors: graft survival and functional effects in rats with ischemic spastic paraplegia. In *European Journal of Neuroscience*. Vol.20 (2004), p.2401-2414. ( 3.820 - IF2004)
59. YOU, C.Y. - YANG, Z.Q. - XIAO, Q.F. - ŠKORVÁNEK, I. - KOVÁČ, J. - LI, Z.J. - LIU, W. - ZHANG, Z.D. Structural and magnetic characterization of Co-Cu nanoparticles prepared by arc-discharge. In *European Physical Journal-Applied Physics*. Vol.28, no.1 (2004), p.73-77. ( 0.745 - IF2004)
60. KOPELIOVICH, B.Z. - NEMCHIK, J. - PREDAZZI, E. - HAYASHIGAKI, A. Inside-outside hadronization in a medium. In *European Physical Journal A*. Vol.19, Suppl.1 (2004), p.111-127. DOI 10.1140/epjad/s2004-03-019-7 ( 1.614 - IF2004)
61. H1 Collaboration (AKTAS, A. -...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Search for Single top quark production in *ep* collisions at HERA. Preprint DESY-03-132, October 2003. In *European Physical Journal C*. Vol.33, no.1 (2004), p.9-22. hep-ex/0310032 ( 3.486 - IF2004)
62. H1 Collaboration (AKTAS, A. -...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Inclusive dijet production at low Bjorken-*x* in deep inelastic scattering. Preprint DESY-03-160. In *European Physical Journal C*. Vol.33, no.4 (2004), p.477-493. hep-ex/0310019 ( 3.486 - IF2004)
63. H1 Collaboration (AKTAS, A. -...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Measurement of anti-deuteron photoproduction and a search for heavy stable charged particles at HERA. Preprint DESY-04-032. In *European Physical Journal C*. Vol.36, no.4 (2004), p.413-423. DOI: 10.1140/epjc/s2004-01978-x hep-ex/0403056 ( 3.486 - IF2004)
64. H1 Collaboration (AKTAS, A. -...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Search for squark production in R-parity violating supersymmetry at HERA. Preprint DESY-04-025. 28 p. In *European Physical Journal C*. Vol.36, no.4 (2004), p.425-440. DOI: 10.1140/epjc/s2004-01982-2 hep-ex/0403027 ( 3.486 - IF2004)
65. H1 Collaboration (AKTAS, A. -...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Forward  $p^0$  production and associated transverse energy flow in deep-inelastic scattering at HERA. Preprint DESY-04-051. In *European Physical Journal C*. Vol.36, no.4 (2004), p.441-452. DOI: 10.1140/epjc/s2004-01983-1 hep-ex/0404009 ( 3.486 - IF2004)
66. H1 Collaboration (AKTAS, A. -...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Measurement of dijet production at low  $Q^2$  at HERA. Preprint DESY-03-206. In *European Physical Journal C*. Vol.37, no.2 (2004), p.141-159. hep-ex/0401010 ( 3.486 - IF2004)
67. KAKINOHANA, O. - CIZKOVÁ, D. - TOMORI, Z. - HEDLUND, Z. - MARSALA, S. - ISACSON, O. - MARSALA, M. Region-specific cell grafting into cervical and lumbar spinal cord in rat: a qualitative and quantitative stereological study. In *Experimental Neurology*. Vol.190, no.1 (2004), p.122-132. ( 3.369 - IF2004)
68. PANT, R.P. - DHAWAN, S.K. - SURI, D.K. - ARORA, M. - GUPTA, S.K. - KONERACKÁ, M. - KOPČANSKÝ, P. - TIMKO, M. Synthesis and characterization of ferrofluid-conducting polymer composite. RANMF 2003: International workshop on



- recent advances in nanotechnology of magnetic fluids, January 22-24, 2003, India, New Delhi. In *Indian Journal of Engineering & Materials Science*. Vol.11, no.4 (2004), p.267-270. ( 0.087 - IF2004)
69. KOPČANSKÝ, P. - POTOČOVÁ, I. - KONERACKÁ, M. - TIMKO, M. - JADZYN, J. - CZECHOWSKI, G. - JANSEN, A.G.M. The structural transitions in thermotropic ferromagnetics. RANMF 2003: International workshop on recent advances in nanotechnology of magnetic fluids, January 22-24, 2003, India, New Delhi. In *Indian Journal of Engineering & Materials Science*. Vol.11, no.4 (2004), p.271-275. ( 0.087 - IF2004)
  70. TIMKO, M. - KONERACKÁ, M. - KOPČANSKÝ, P. - TOMORI, Z. - VÉKAS, L. - JÓZSEFCZAK, A. - SKUMIEL, A. - RADENOVIC, A. - DIETLER, G. - BYSTRENOVÁ, E. - LITA, M. Complex characterization of physiology solution based magnetic fluid. In: RANMF 2003: International workshop on recent advances in nanotechnology of magnetic fluids, January 22-24, 2003, India, New Delhi. In *Indian Journal of Engineering & Materials Science*. Vol.11, no.4 (2004), p.276-282. ( 0.087 - IF2004)
  71. AKATOV, Yu.A. - AKULIN, A.I. - ASOSKOVA, E.O. - BELYAEV, A.A. - GAGARIN, Yu.F. - GORDEEV, Yu.P. - GRACHEV, E.A. - GRIGORYAN, O.R. - KUDELA, K. - MYASNIKOV, A.G. - JUST, L. The Radiation-Measuring Complex of the SPRUT-VI System. In *Instruments and Experimental Techniques*. Vol.47, no.1 (2004), p.103-108 (Pribory i Tekhnika Eksperimenta. Vol.47, no.1 (2004), p.115-121.) ( 0.312 - IF2004)
  72. ČENČARIKOVÁ, H. - FARKAŠOVSKÝ, P. Phase Transitions Induced by Correlated Hopping in the Falicov-Kimball Model. In *International Journal of Modern Physics B*. Vol.18, no.3 (2004), p.357-368. ( 0.361 - IF2004)
  73. KAVEČANSKÝ, V. - ROGL, P. - NOEL, H. - MIHALIK, M. - WOCHOWSKI, K. - TROC, R. X-ray investigation of alloys with composition  $\text{Th}_{37.5}\text{M}_{25}\text{M}_{37.5}$ ;  $\text{M}=\text{Al}, \text{Ga}$ ,  $\text{M}=\text{Si}, \text{Ge}$ . In *Journal of Alloys and Compounds*. Vol.365, no.1-2 (2004), p.173-177. ( 1.562 - IF2004)
  74. KUDELA, K. - BRENKUS, R. Cosmic ray decreases and geomagnetic activity: list of events 1982-2002. In *Journal of Atmospheric and Solar-Terrestrial Physics*. Vol.66, no.13-14 (2004), p.1121-1126. ( 1.517 - IF2004)
  75. VARHAČ, R. - ANTALÍK, M. - BÁNÓ, M. Effect of temperature and guanidine hydrochloride on ferrocycytochrome c at neutral pH. In *Journal of Biological Inorganic Chemistry*. Vol.9, no.1 (2004), p.12-22. ( 3.300 - IF2004)
  76. ZMORAYOVÁ, K. - DIKO, P. - ŠEFČÍKOVÁ, M. - GRANADOS, X. - SANDIUMENGE, F. - OBRADORS, X. Oscillation of  $\text{Y}_2\text{BaCuO}_5$  particle concentration in the melt-growth  $\text{YBaCuO}$  bulk superconductors. In *Journal of Crystal Growth*. Vol.270 (2004), p.685-690. ( 1.707 - IF2004)
  77. SHALYGUINA, E.E. - ŠKORVÁNEK, I. - ŠVEC, P. - MEL'NIKOV, V.A. - ABROSIMOVA, N.M. Inverted near-surface hysteresis loops in heterogeneous (nanocrystalline/amorphous)  $\text{Fe}_{81}\text{Nb}_7\text{B}_{12}$  alloys. In *Journal of Experimental and Theoretical Physics*. Vol.99, no.3 (2004), p.544-551. ( 1.281 - IF2004)
  78. OCELÍK, V. - VAN HEESWIJK, V. - DE HOSSON, J.Th.M. - CSACH, K. Foam coating on aluminum alloy with laser cladding. In *Journal of Laser Applications*. Vol.16, no.2 (2004), p.79-84. ( 0.704 - IF2004)

79. BRADLEY, D.I. - CLUBB, D.O. - FISHER, S.N. - GUÉNAULT, A.M. - MATTHEWS, C.J. - PICKETT, G.R. - SKYBA, P. Spatial Manipulation of the Persistent Precessing Spin Domain in Superfluid  $^3\text{He-B}$ . QFS 2003: Quantum Fluids and Solids International Symposium The University of New Mexico, Albuquerque, New Mexico, USA, 3-8 August, 2003. In *Journal of Low Temperature Physics*. Vol.134, no.1/2 (2004), p.351-356. ( 0.859 - IF2004)
80. BARTKOWIAK, M. - BRADLEY, D.I. - FISHER, S.N. - GUENAUULT, A.M. - HALEY, R.P. - PICKETT, G.R. - SKYBA, P. The stability of the superfluid He-3 AB interface pinned in an aperture. QFS 2003: Quantum Fluids and Solids International Symposium The University of New Mexico, Albuquerque, New Mexico, USA, 3-8 August, 2003. In *Journal of Low Temperature Physics*. Vol.134, no.1-2 (2004), p.387-392. ( 0.859 - IF2004)
81. REIFFERS, M. - IDZIKOWSKI, B. - ILKOVIČ, S. - ZORKOVSKÁ, A. - ŠEBEK, J. - MÜLLER, K.H. Point-contact properties of cubic YbCu<sub>5</sub> prepared by melt spinning technique. ICM 2003: International Conference on Magnetism, Roma, Italy, July 27 - August 1, 2003. In *Journal of Magnetism and Magnetic Materials*. Vol.272-276, Part 1 (2004), p.209-210. ( 1.031 - IF2004)
82. GABÁNI, S. - BAUER, E. - DELLA MEA, M. - FLACHBART, K. - PADERNO, Y. - PAVLÍK, V. - SHITSEVALOVA, N. Insulator-metal phase transition in SmB<sub>6</sub> under pressure. ICM 2003: International Conference on Magnetism, Roma, Italy, July 27 - August 1, 2003. In *Journal of Magnetism and Magnetic Materials*. Vol. 272-276, Part 1 (2004), p.397-399. ( 1.031 - IF2004)
83. REIFFERS, M. - DELLA MEA, M. - BAUER, E. - PRISTÁŠ, G. Pressure and field effects on spin fluctuations in CeNi<sub>5</sub>. ICM 2003: International Conference on Magnetism, Roma, Italy, July 27 - August 1, 2003. In *Journal of Magnetism and Magnetic Materials*. Vol.272-276, Part 1 (2004), p.605-607. ( 1.031 - IF2004)
84. REIFFERS, M. - ILKOVIČ, S. - ZORKOVSKÁ, A. - BAUER, E. Point-contact properties of non-Fermi liquid compound YbCu<sub>3.5</sub>Al<sub>1.5</sub>. ICM 2003: International Conference on Magnetism, Roma, Italy, July 27 - August 1, 2003. In *Journal of Magnetism and Magnetic Materials*. Vol.272-276, Part 1 (2004), p.625-626. ( 1.031 - IF2004)
85. ŠKORVÁNEK, I. - KOVÁČ, J. - KÖTZLER, J. Temperature evolution of coercive field and thermal relaxation effects in nanocrystalline FeNbB alloys. ICM 2003: International Conference on Magnetism, Roma, Italy, July 27 - August 1, 2003. In *Journal of Magnetism and Magnetic Materials*. Vol.272-276, Part 2 (2004), p.1503-1505. ( 1.031 - IF2004)
86. KOPČANSKÝ, P. - POTOČOVÁ, I. - TIMKO, M. - KONERACKÁ, M. - JANSEN, A.M.G. - JADZYN, J. - CZECHOWSKI, G. The structural transitions in ferronematics in combined electric and magnetic fields. ICM 2003: International Conference on Magnetism, Roma, Italy, 27 July - 1 August 2003. In *Journal of Magnetism and Magnetic Materials*. Vol.272-276, Part 3 (2004), p.2355-2356. ( 1.031 - IF2004)
87. KOPČANSKÝ, P. - TOMČO, L. - MARTON, K. - KONERACKÁ, M. - POTOČOVÁ, I. - TIMKO, M. The experimental study of the DC dielectric breakdown strength in magnetic fluids. ICM 2003: International Conference on Magnetism, Roma, Italy, July 27 - August 1, 2003. In *Journal of Magnetism and Magnetic Materials*. Vol.272-276, Part 3 (2004), p.2377-2378. ( 1.031 - IF2004)

88. GODOCIKOVA, E. - BALÁŽ, P. - BOLDIŽÁROVÁ, E. - ŠKORVÁNEK, I. - KOVÁČ, J. - CHOI, W. Mechanochemical reduction of lead sulphide by elemental iron. In *Journal of Materials Science*. Vol.39, no.16-17 (2004), p.5353-5355. ( 0.864 - IF2004)
89. BEDNARČÍK, J. - KOVÁČ, J. - KOLLÁR, P. - ROTH, S. - SOVÁK, P. - BALCERSKI, J. - POLANSKI, K. - ŠVEC, T. Crystallization of CoFeSiB metallic glass induced by long-time ball milling. In *Journal of Non-Crystalline Solids*. Vol.337, no.1 (2004), p.42-47. ( 1.433 - IF2004)
90. PEKALA, K. - PEKALA, M. - ŠKORVÁNEK, I. Electrical resistivity of nanocrystalline Fe<sub>73.5</sub>Nb<sub>4.5</sub>Cr<sub>5</sub>Cu<sub>1</sub>B<sub>16</sub> alloys. In *Journal of Non-Crystalline Solids*. Vol.347, no.1-3 (2004), p.27-30. ( 1.433 - IF2004)
91. \*\* ŠÁNDOR, L. for NA57 Collaboration (ANTINORI, F. -...- BOMBARA, M. -...- JUSKO, A. -...- KRÁLIK, I. -...- PASTIRČÁK, B. -...- ŠAFARÍK, K. -...- ŠÁNDOR, L. -...-) Hyperon production at the CERN SPS: results from the NA57 experiment. *SQM 2003: 7th International Conference on Strangeness in Quark Matter, Atlantic Beach, North Carolina, Marec 2003*. Pozvaná prednáška. In *Journal of Physics G: Nuclear and Particle Physics*. Vol. 30, no.1 (2004), p.S129-S138. ( 1.533 - IF2004)
92. \*\* NORMAN, P.I. for NA57 Collaboration (ANTINORI, F. -...- JUSKO, A. -...- KRÁLIK, I. -...- PASTIRČÁK, B. -...- ŠAFARÍK, K. -...- ŠÁNDOR, L. -...-) Hyperon production in 40 A GeV/c collisions from the NA57 experiment. Prepared for SQM 2003: 7th International Conference on Strangeness in Quark Matter, Atlantic Beach, North Carolina, 12-17 Mar 2003. In *Journal of Physics G: Nuclear and Particle Physics*. Vol.30, no.1 (2004), p.S199-S204. ( 1.533 - IF2004)
93. NA57 Collaboration (ANTINORI, F. -...- BOMBARA, M. -...- JUSKO, A. -...- KRÁLIK, I. -...- PASTIRČÁK, B. -...- ŠAFARÍK, K. -...- ŠÁNDOR, L. -...-) Study of the Transverse Mass Spectra of Strange Particles in Pb - Pb Collisions at 158-A GeV/c. In *Journal of Physics G: Nuclear and Particle Physics*. Vol.30, no.6 (2004), p.823-840. nucl-ex/0403016 ( 1.533 - IF2004)
94. \*\* BRUNO, G.E. for NA57 Collaboration (ANTINORI, F. -...- BOMBARA, M. -...- JUSKO, A. -...- KRÁLIK, I. -...- PASTIRČÁK, B. -...- ŠAFARÍK, K. -...- ŠÁNDOR, L. -...-) New results from the NA57 experiment. QM 2004: 17th International Conference on Ultra-Relativistic Nucleus-Nucleus Collision (Oakland, california, USA, 11-17 January, 2004). In *Journal of Physics G-Nuclear and Particle Physics*. Vol.30, no.8 (2004), p. S717-S724. ( 1.533 - IF2004)
95. SPD ALICE Collaboration MANZARI, V. - ANELLI, G. - ANTINORI, F. - BOCCARDI, A. - BRUNO, G.E. - BURNS, M. - CALI, I.A. - CAMPBELL, M. - CASELLE, M. - CHOCHULA, P. - CINAUSERO, M. - DALESSANDRO, A. - DIMA, R. - DINAPOLI, R. - ELIA, D. - FABRIS, D. - FINI, R.A. - FIORETTO, E. - FORMENTI, F. - GHIDINI, B. - KAPUSTA, S. - KLUGE, A. - KRIVDA, M. - LENTI, V. - LIBRIZZI, F. - LUNARDON, M. - MANZARI, V. - MOREL, M. - MORETTO, S. - NAVACH, F. - NILSSON, P. - GINER, A.O. - OSMIC, F. - PAPPALARDO, G.S. - PEPATO, A. - PRETE, G. - RIEDLER, P. - SANTORO, R. - SCARLASSARA, F. - SEGATO, G. - ŠÁNDOR, L. - SORAMEL, F. - STEFANINI, G. - TURRISI, R. - VANNUCCI, L. - VIESTI, G. - VIRGILI, T. The silicon pixel detector (SPD) for the ALICE experiment. QM 2004: 17th International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions, 11-17 Jan 2004, Oakland, California, USA. In *Journal of Physics G: Nuclear and Particle Physics*. Vol.30, Sp.Iss.SI, no.8 (2004), p.S1091-S1095. ( 1.533 - IF2004)

96. \*\* ELIA, D. for NA57 Collaboration (ANTINORI, F. -...- BOMBARA, M. -...- JUSKO, A. -...- KRÁLIK, I. -...- PASTIRČÁK, B. -...- ŠAFAŘÍK, K. -...- ŠÁNDOR, L. -...-) Energy dependence of  $K^0_S$  and hyperon production at CERN SPS. In *QM 2004: 17th International Conference on Ultrarelativistic Nucleus-Nucleus Collisions: Quark Matter 2004, 17th International Conference On Ultra Relativistic Nucleus-Nucleus Collisions (Quark Matter 2004), 11-17 Jan 2004, Oakland, California, USA.* In *Journal of Physics G: Nuclear and Particle Physics.* Vol.30, no.8 (2004), p.S1329-S1332 ( 1.533 - IF2004)
97. \*\* ALICE Collaboration (-...- BÁN, J. -...- BOMBARA, M. -...- FEDOR, S. -...- HNATIČ, M. -...- KRÁLIK, I. -...- KRIVÁŇ, F. -...- KRIVDA, M. -...- PASTIRČÁK, B. -...- ŠÁNDOR, L. -...-) ALICE: Physics Performance Report, Volume I. Eds. F.Carminati, P.Foka, P.Giubellino, A.Morsch, G.Paic, J.-P.Revol, K.Šafařík, Y.Schutz, U.A.Wiedemann. In *Journal of Physics G: Nuclear and Particle Physics.* Vol.30, no.11 (2004), p.1517-1763. ( 1.533 - IF2004)
98. SI, P.Z. - BRÜCK, E. - ZHANG, Z.D. - ŠKORVÁNEK, I. - KOVÁČ, J. - ZHANG, M. Preparation and properties of dysprosium nanocapsules coated with boron, carbon, and dysprosium oxide. In *Materials Research Bulletin.* Vol.39, no.7-8 (2004), p.1005-1012. ( 1.310 - IF2004)
99. LOVAS, A. – BÖHÖNYEY, A. – KISS, L.F. – KOVÁČ, J. – NÉMETH, P. Some new results on amorphous Curie-temperature relaxation. QMM 2002: 11th International Conference on Rapidly Quenched and Metastable Materials, Oxford, 25 - 30 August 2002. Eds. K. O'Reilly, P. Warren, P. Schumacher, B. Cantor. In *Materials Science and Engineering A - Structural Materials Properties Microstructure and Processing.* Vol. 375-377, Sp. Iss. SI (2004), p. 1097-1100. ( 1.445 - IF2004)
100. ŠKORVÁNEK, I. - WAGNER, V. A neutron depolarization study of low temperature magnetic hardening in Fe-Nb-Cr-B-Cu nanocrystalline alloys. 11th International Conference on Rapidly Quenched and Metastable Materials, Oxford, 25 - 30 August 2002. In *Materials Science and Engineering A - Structural Materials Properties Microstructure and Processing.* Vol.375-77. Sp.Iss.SI (2004), p.1133-1136. ( 1.445 - IF2004)
101. FECHOVÁ, E. - KOLLÁR, P. - FÜZER, J. - KOVÁČ, J. - PETROVIČ, P. - KAVEČANSKÝ, V. The influence of the long time milling on the structure and magnetic properties of the Fe-Cu-Nb-Si-B powder. In *Materials Science and Engineering B - Solid State Materials for Advanced Technology.* Vol.107, no.2 (2004), p.155-160. ( 0.924 - IF2004)
102. McKENNA-LAWLOR, S. - BALÁŽ, J. - STRHÁRSKY, I. - BARABASH, S. - BRINKFELDT, K. - LI, Lu - SHEN, Ch. - SHI, J. - ZONG, Q. - KUDELA, K. - FU, S. - ROELOF, C. - PONTUS C: son BRANDT - DANDOURAS, I. The energetic NeUtral Atom Detector Unit (NUADU) for China s Double Star Mission and its calibration. In *Nuclear Instruments and Methods in Physics Research A.* Vol.530, no.3 (2004), p. 311-322. ( 1.349 - IF2004)
103. ATLAS Liquid Argon EMEC/HEC Collaboration (COJOCARU, C. -...- BRUNCKO, D. -...- CHYTRÁČEK, R. -...- KLADIVA, E. -...- STRÍŽENEC, P. -...-) Hadronic Calibration of the ATLAS Liquid Argon End-Cap Calorimeter in the Pseudorapidity Region  $1.6 < \eta < 1.8$  in Beam Tests. MPP-2004-81. In *Nuclear Instruments and Methods in Physics Research. Section A - Accelerators Spectrometers Detectors and Associated Equipment.* Vol.531, no.3 (2004), p.481-514. e-Print Archive: physics/0407009 ( 1.349 - IF2004)

104. \*\* ELIA, D. for NA57 Collaboration (ANTINORI, F. -...- BOMBARA, M. -...- JUSKO, A. -...- KRÁLIK, I. -...- PASTIRČÁK, B. -...- ŠAFARIK, K. -...- ŠÁNDOR, L. -...-) Hyperon production in 158 and 40 *A* GeV/*c* pb-Pb and p-Be collisions from the NA57 experiment. NN 2003: Proceedings of the 8th international Conference on Nucleus-Nucleus Collisions, 17-21 Jun 2003, Moscow, Russia. Eds. Yu.Oganessian, R.Kalpakchieva. In *Nuclear Physics A*. Vol.734, (2004), p.57-60. ( 2.108 - IF2004)
105. KOPELIOVICH, B.Z. - NEMCHIK, J. - PREDAZZI, E. - HAYASHIGAKI, A. Nuclear hadronization: within or without? Talk given at the 4th International Conference on Perspectives in Hadronic Physics, Trieste, Italy, May 12-16, 2003 and EuroConference on Hadron Structure Viewed with Electromagnetic Probes, Santorini, Greece, October 7-12, 2003. In *Nuclear Physics A*. Vol.740, no.1-2 (2004), p.211-245. ( 2.108 - IF2004)
106. PUDLÁK, M. Effect of the conformational transitions on electron transfer in biological systems. In *Physica A*. Vol.341 (2004), p.444-454. ( 1.369 - IF2004)
107. HOLANOVÁ, Z. - KAČMARČÍK, J. - SZABÓ, P. - SAMUELY, P. - SHEIKIN, I.-RIBEIRO, R.A.- BUĐKO, S.L.- CANFIELD, P.C. Critical fluctuations in the carbon-doped magnesium diboride. Proceedings of the Third European Conference on Vortex Matter in Superconductors at Extreme Scales and Conditions Crete, Greece, 20 - 28 September 2003. Eds. V. V. Moshchalkov, E. H. Brandt, A. S. Alexandrov. In *Physica C - Superconductivity and its Applications*. Vol.404, no.1-4 (2004), p.195-199. ( 1.072 - IF2004)
108. SAMUELY, P. - SZABÓ, P. - KAČMARČÍK, J. - KLEIN, T. Andreev reflection spectroscopy of MgB<sub>2</sub> in the vortex state. Proceedings of the Third European Conference on Vortex Matter in Superconductors at Extreme Scales and Conditions Crete, Greece, 20 - 28 September 2003. Eds. V. V. Moshchalkov, E. H. Brandt, A. S. Alexandrov. In *Physica C - Superconductivity and its Applications*. Vol.404, no.1-4 (2004), p.460-465. ( 1.072 - IF2004)
109. HUDÁKOVÁ, N. - KNÍŽE, K. - HEJTMÁNEK, J. The infrared properties of Bi<sub>2</sub>Y<sub>0.1</sub>Sr<sub>1.9</sub>CaCu<sub>2</sub>O<sub>8+d</sub> superconductor. In *Physica C*. Vol.406, no.1-2 (2004), p.58-62. ( 1.072 - IF2004)
110. HOLANOVÁ, Z. - SZABÓ, P. - KAČMARČÍK, J. - SAMUELY, P. - RIBEIRO, R.A. - BUĐKO, S.L. - CANFIELD, P.C. Energy gaps in carbon-substituted MgB<sub>2</sub>. Proceedings of the International Conference on Materials and Mechanisms of Superconductivity. High Temperature Superconductors VII -- M2SRIO, Rio de Janeiro, Brazil, 25-30 May 2003. Eds. E. Ortiz, E. Mello, E. Granato, E. Baggio Saitovitch. In *Physica C-Superconductivity and its Applications*. Vol.408-410, (2004), p.610-611. ( 1.072 - IF2004)
111. KAČMARČÍK, J. - SAMUELY, P. - SZABÓ, P. - KLEIN, T. Determination of the upper critical magnetic fields from fluctuation conductivity. In *Physica C - Superconductivity and its Applications*. Vol.415, no.1-2 (2004), p.15-20. ( 1.072 - IF2004)
112. BÁNÓ, M. - MAREK, J. - STUPÁK, M. Hydrodynamic parameters of hydrated macromolecules: Monte Carlo calculation. In *Physical Chemistry Chemical Physics*. Vol.6, no.9 (2004), p.2358-2363.( 2.076 - IF2004)
113. ORENDÁČ, M. - ORENDÁČOVÁ, A. - ČIŽMÁR, E. - PARK, J.H. - FEHER, A. - GAMBLE, S.J. - GABÁNI, S. - FLACHBART, K. - KARADAMOGLOU, J. - POIRIER, M. - MEISEL, M.W. Nonlinear excitations in CsNiF<sub>3</sub> in magnetic fields

- perpendicular to the easy plane. In *Physical Review B*. Vol.69, no.18 (2004), p.184403-1-6. ( 3.075 - IF2004)
114. FARKAŠOVSKÝ, P. Effects of nonlocal hybridization on valence and metal-insulator transitions in the Falicov-Kimball model. In *Physical Review B*. Vol.70, no.3 (2004), p.035117-1-6. ( 3.075 - IF2004)
  115. HOLANOVÁ, Z. - SZABÓ, P. - SAMUELY, P. - WILKE, R.H.T. - BUĎKO, S.L. - CANFIELD, P.C. Systematic study of two-band/two-gap superconductivity in carbon-substituted MgB<sub>2</sub> by point-contact spectroscopy. In *Physical Review B*. Vol.70, no.6 (2004), p.064520-1-5. ( 3.075 - IF2004)
  116. MIHALIK, M.Jr. - VEJPRAVOVÁ, J. - RUSZ, J. - DIVIŠ, M. - SVOBODA, P. - SECHOVSKÝ, V. - MIHALIK, M. Anisotropic magnetic properties and specific-heat study of a TbFe<sub>2</sub>Si<sub>2</sub> single crystal. In *Physical Review B*. Vol.70, no.13 (2004), p.134405-1-7. ( 3.075 - IF2004)
  117. KOHOUT, A. - BAŤKO, I. - CZOPNIK, A. - FLACHBART, K. - MAŤAŠ, S. - MEISSNER, M. - PADERNO, Y. - SHITSEVALOVA, N. - SIEMENSMEYER, K. Phase diagram and magnetic structure investigation of the fcc antiferromagnet HoB<sub>12</sub>. In *Physical Review B*. Vol.70, no.22 (2004), p.224416-1-7. ( 3.075 - IF2004)
  118. BARTKOWIAK, M. - FISHER, S.N. - GUENAU, A.M. - HALEY, R.P. - PICKETT, G.R. - SKYBA, P. Interfacial Energy of the Superfluid <sup>3</sup>He A-B Phase Interface in the Zero-Temperature Limit. In *Physical Review Letters*. Vol.93, no.4 (2004), p.045301-1-4. ( 7.218 - IF2004)
  119. BUSTARRET, E. - KAČMARČÍK, J. - MARCENAT, C. - GHEERAERT, E. - CYTERMANN, C. - MARCUS, J. - KLEIN, T. Dependence of the Superconducting Transition Temperature on the Doping Level in Single-Crystalline Diamond Films. In *Physical Review Letters*. Vol.93, no.23 (2004), p.237005-1-4. ( 7.218 - IF2004)
  120. H1 Collaboration (AKTAS, A. -...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Muon pair production in *ep* collisions at HERA. In *Physics Letters B*. Vol. 583, no.1-2 (2004), p.28-40. ( 4.619 - IF2004)
  121. H1 Collaboration (AKTAS, A. -...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Evidence for a Narrow Anti-Charmed Baryon State. Preprint DESY-04-038, March 2004. In *Physics Letters B*. Vol.588, no.1-2 (2004), p.17-28. hep-ex/0403017 ( 4.619 - IF2004)
  122. NA57 Collaboration (ANTINORI, F. -...- BOMBARA, M. -...- JUSKO, A. -...- KRÁLIK, I. -...- PASTIRČÁK, B. -...- ŠAFARÍK, K. -...- ŠÁNDOR, L. -...-) Energy dependence of hyperon production in nucleus-nucleus collisions at SPS. In *Physics Letters B*. Vol.595, no.1-4 (2004), p.68-74. nucl-ex/0403022 ( 4.619 - IF2004)
  123. H1 Collaboration (AKTAS, A. -...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Measurement of the Proton Structure Function F<sub>2</sub> at low Q<sup>2</sup> in QED Compton Scattering at HERA. Preprint DESY-04-083. In *Physics Letters B*. Vol.598, no.3-4 (2004), p.159-171. hep-ex/0406029 ( 4.619 - IF2004)
  124. H1 Collaboration (AKTAS, A. -...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Search for bosonic stop decays in R-parity violating supersymmetry in e<sup>+</sup>p collisions at HERA. Preprint DESY-04-084. In *Physics Letters B*. Vol.599, no.3-4 (2004), p.159-172. hep-ex/0405070 ( 4.619 - IF2004)

125. H1 Collaboration (AKTAS, A. -...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) A general search for new phenomena in  $ep$  scattering at HERA. Preprint DESY 04-140. In *Physics Letters B*. Vol.602, no.1-2 (2004), p.14-30. hep-ex/0408044 ( 4.619 - IF2004)
126. ADAMOVICH, M.I. - ANDREEVA, N.P. - BASOVA, E.S. - BRADNOVA, V. - BUBNOV, V.I. - CHERNYAVSKY, M.M. - GAITINOV, A.S. - GULAMOV, K.G. - HAIDUC, M. - HASEGAN, D. - JUST, L. - KANYGINA, E.K. - KHARLAMOV, S.P. - KOVALENKO, A.D. - KRASNOV, S.A. - KRAVCAKOVA, A. - LARIONOVA, V.G. - LEBEDEV, I.A. - LEVITSKAYA, O.V. - LUKICHEVA, N.S. - MUSAEVA, A.K. - NASYROV, S.Z. - NAVOTNY, V.S. - ORLOVA, G.I. - PERESADKO, N.G. - PHILIPPOVA, L.N. - PLYUSHCHEV, V.A. - RUSAKOVA, V.V. - SAIDKHANOV, N. - SALMANOVA, N.A. - SEITIMBETOV, A.M. - TRETYAKOVA, M.I. - SAIDKHANOV, N. - SALMANOVA, N.A. - SEITIMBETOV, A.M. - TRETYAKOVA, M.I. - TROFIMOVA, T.P. - VOKAL, S. - VRLAKOVA, J. - ZARUBIN, P.I. - ZHOKHOVA, S.I. Flow effects in high-energy nucleus collisions with Ag(Br) in emulsion. In *Physics of Atomic Nuclei*. Vol.67, no.2 (2004), p.273-280. = *Jadernaja fizika*, Vol.67, no.2, 2004, p. 290-297 ( 0.781 - IF2004)
127. ADAMOVICH, M.I. - BRADNOVA, V. - VOKAL, S. - GERASIMOV, S.G. - DRONOV, V.A. - ZARUBIN, P.I. - KOVALENKO, A.D. - KOTEĽNIKOV, K.A. - KRASNOV, V.A. - LARIONOVA, V.G. - LEPEKHIN, F.G. - MALAKHOV, A.I. - ORLOVA, G.I. - PERESADKO, N.G. - POLUKHINA, N.G. - RUKOYATKIN, P.A. - RUSAKOVA, V.V. - SALMANOVA, N.A. - SIMONOV, B.B. - CHERNYAVSKY, M.M. - HAIDUC, M. - KHARLAMOV, S.P. - JUST, L. Investigation of clustering in light nuclei by means of relativistic-multifragmentation processes. In *Physics of Atomic Nuclei*. Vol.67, no.3 (2004), p.514-517. = *Jadernaja fizika*, Vol.67, no.3, 2004, p. 533-536 ( 0.781 - IF2004)
128. BOBROV, O.P. - LAPTEV, S.N. - NEUHAUSER, H. - KHONIK, V.A. - CSACH, K. Stress relaxation and viscosity of a bulk Pd<sub>40</sub>Cu<sub>30</sub>Ni<sub>10</sub>P<sub>20</sub> metallic glass under isochronous heating conditions. In *Physics of the Solid State*. Vol.46, no.10 (2004), p.1863-1867 ( *Fizika tverdogo tela*. Tom 46, no.10 (2004), p.1801-1805 ) ( 0.724 - IF2004)
129. SPURNÝ, F. - KUDELA, K. - DACHEV, T. Airplane radiation dose decrease during a strong Forbush decrease. In *Space Weather – The International Journal of Research and Applications*. Vol.2, no.5 (2004), p.S5001-1-4. doi:10.1029/2004SW000074 ( - - IF2004)
130. DIKO, P. - ZMORAYOVÁ, K. - BABU, N.H. - KRABBES, G. - CARDWELL, D.A. The influence of the addition of depleted uranium on particle pushing in melt-processed, bulk Y-Ba-Cu-O. In *Superconductor Science and Technology*. Vol.17, no.1 (2004), p.186-193. ( 1.556 - IF2004)
131. DIKO, P. Cracking in Melt-Grown RE-Ba-Cu-O Single-Grain Bulk Superconductors. In *Superconductor Science and Technology*. Vol.17, no.11 (2004), p.R45-R58. (Topical Review) ( 1.556 - IF2004)
132. SHALYGUINA, E.E. - ŠKORVÁNEK, I. - ŠVEC, P. - MOLOKANOV, V.V. - MELNIKOV, V.A. Inverted surface hysteresis loops in heterogeneous (nanocrystalline/amorphous) Fe<sub>81</sub>Nb<sub>7</sub>B<sub>12</sub> alloys. In *Technical Physics Letters*. Vol.30, no.7 (2004), p.591-594. ( 0.511 - IF2004)

## Vedecké práce v ostatných časopisoch

### Iné databázy

133. KUPKOVÁ, M. - KUPKA, M. Theoretical bounds on the electrical conductivity of sintered materials and their relation bounds on the young s moduls. In *Metalurgija*. Vol.43, no.2 (2004), p.97-100. ( 0.185 - IF2004) (Wos)
134. TABAČNIKOVA, E.D. - BENGUS, V.Z. - NACIK, V.D. - MIŠKUF, J. - CSACH, K. - STOLJAROV, V.V. - VALIEV, R.Z. Deformacija i razrušenije melkozernistogo titana pri 300, 77 i 4.2 K. In *Izvestija akademiji nauk, seria fizičeskaja*. Tom 67, no.6 (2003), p.785-789. (Scopus)
135. MAŤAŠ, S. - BAŤKO, I. - FLACHBART, K. - PADERNO, Y. - SHITSEVALOVA, N. - SIEMENSMEYER, K. Neutron diffraction on HoB<sub>12</sub>. ICM 2003: International Conference on Magnetism, Roma, Italy, July 27 - August 1, 2003. In *Journal of Magnetism and Magnetic Materials*. Vol.272-276, Supplement 1 (2004), p.e435-e437. ( 1.031 - IF2004) (Scopus)
136. ANDRIANOV, A.VI. - BAUER, E. - GABÁNI, S. - SAVELEVA, O.A. Magnetic phase diagram of YxGdl-x under hydrostatic pressure. ICM 2003: International Conference on Magnetism, Roma, Italy, July 27 - August 1, 2003. In *Journal of Magnetism and Magnetic Materials*. Vol.272-276, Supplement 1 (2004), p.e439-e440. ( 1.031 - IF2004) (Scopus)
137. KOHOUT, A. - CZOPNIK, A. - FLACHBART, K. - MEISSNER, M. - PADERNO, Y. - SHITSEVALOVA, N. - SIEMENSMEYER, K. Magnetic phase diagram of HoB<sub>12</sub>. ICM 2003: International Conference on Magnetism, Roma, Italy, July 27 - August 1, 2003. In *Journal of Magnetism and Magnetic Materials*. Vol.272-276, Supplement 1 (2004), p.e469-e471. ( 1.031 - IF2004) (Scopus)
138. ZENTKOVÁ, M. - MIHALIK, M. - TÓTH, I. - MITRÓOVÁ, Z. - ZENTKO, A. - SENDEK, M. - KOVÁČ, J. - LUKÁČOVÁ, M. - MARYŠKO, M. - MIGLIERINI, M. Magnetic and Mössbauer study of some transition metal based nitroprussides. ICM 2003: International Conference on Magnetism, Roma, Italy, July 27 - August 1, 2003. In *Journal of Magnetism and Magnetic Materials*. Vol.272-276, Supplement 1 (2004), p.e753-e754. ( 1.031 - IF2004) (Scopus)
139. PROKEŠ, K. - NAKOTTE, H. - SECHOVSKÝ, V. - MIHALIK, M. - ANDREEV, A.V. On the magnetic structure of UIrGe. Proceedings of the 3rd European Conference on Neutron Scattering, Montpeliere, 3 - 6 September. Ed. H.Mutka. In *Physica B*. Vol.350, no.1-3 (2004), p.e199-e202. ( 0.679 - IF2004) (Scopus)
140. HELSTRUP, H. for NA57 Collaboration (ANTINORI, F. -...- BOMBARA, M. -...- JUSKO, A. -...- KRÁLIK, I. -...- PASTIRČÁK, B. -...- ŠAFARÍK, K. -...- ŠÁNDOR, L. -...-) Hyperon production in lead-lead interactions at 40 and 160 A GeV/c. HEP 2003: International Europhysics Conference on High Energy Physics, 17-23 July 2003, Aachen, Germany. In *European Physical Journal C*. Vol.33, Suppl.1 (2004), p.S618-S620. ( 3.486 - IF2004) (Slac Spires)

### Iné časopisy

141. DIKO, P. Cracking in TSMG YBCO Superconductors. METALLOGRAPHY 2004: 12th International Symposium on Metallography, 28<sup>th</sup>-30<sup>th</sup> April, 2004, Academia Congress Centre, Stará Lesná, High Tatra Mountains, Slovak Republic. Eds. M.Longauerová, I.Hrivňák, S.Longauer, G.Janáč. In *Acta Metallurgica Slovaca*, vol.10, no.1, special issue (2004), p.570-577.



142. MIŠKUF, J. - CSACH, K. - JURÍKOVÁ, A. - OCELÍK, V. - BENGUS, V.Z. - TABACHNIKOVA, E.D. Analysis of opposite shear fracture surfaces. METALLOGRAPHY 2004: 12th International Symposium on Metallography, 28<sup>th</sup>-30<sup>th</sup> April 2004, Academia Congress Centre, Stará Lesná, High Tatra Mountains, Slovak Republic. Eds. M.Longauerová, I.Hrivňák, S.Longauer, G.Janáč. In *Acta Metallurgica Slovaca*. Vol.10, no.1, special issue (2004), p. 774-776.
143. CSACH, K. - MIŠKUF, J. - OCELÍK, V. - BENGUS, V.Z. - TABACHNIKOVA, E.D. - NATSIK, V.D. - STOLYAROV, V.V. - VALIEV, R.Z. Low temperature failure of bulk nanostructured titanium processed by ECAP. METALLOGRAPHY 2004: 12th International Symposium on Metallography, 28<sup>th</sup>-30<sup>th</sup> April 2004, Academia Congress Centre, Stará Lesná, High Tatra Mountains, Slovak Republic. Eds. M.Longauerová, I.Hrivňák, S.Longauer, G.Janáč. In *Acta Metallurgica Slovaca*. Vol.10, no.1, special issue (2004), p.789-791.
144. KUPKOVÁ, M. - DUDROVÁ, E. - KUPKA, M. - KABÁTOVÁ, M. Relation of electrical resistivity and young s modulus of sintered iron to various compacting pressures and sintering conditions. METALLOGRAPHY 2004: 12th International Symposium on Metallography, 28<sup>th</sup>-30<sup>th</sup> April 2004, Academia Congress Centre, Stará Lesná, High Tatra Mountains, Slovak Republic. Eds. M.Longauerová, I.Hrivňák, S.Longauer, G.Janáč. In *Acta Metallurgica Slovaca*. Vol.10, no.1, special issue (2004), p.883-885.
145. ŠEFČÍKOVÁ, M. - ZMORAYOVÁ, K. - DIKO, P. - BABU, H. - CARDWELL, D. Microstructure characterisation of YBCO bulk superconductors with complex alloying. METALLOGRAPHY 2004: 12th International Symposium on Metallography, 28<sup>th</sup>-30<sup>th</sup> April, 2004, Academia Congress Centre, Stará Lesná, High Tatra Mountains, Slovak Republic. Eds. M.Longauerová, I.Hrivňák, S.Longauer, G.Janáč. In *Acta Metallurgica Slovaca*, vol.10, no.1, special issue (2004), p.889-891.
146. ZMORAYOVÁ, K. - ŠEFČÍKOVÁ, M. - DIKO, P. - BABU, H. - CARDWELL, D. The microstructural characterisation of YBCO bulk superconductors with depleted uranium addition. In *METALLOGRAPHY 2004: 12th International Symposium on Metallography, 28<sup>th</sup>-30<sup>th</sup> April, 2004, Academia Congress Centre, Stará Lesná, High Tatra Mountains, Slovak Republic*. Eds. M.Longauerová, I.Hrivňák, S.Longauer, G.Janáč. In *Acta Metallurgica Slovaca*, vol.10, no.1, special issue (2004), p.892-894.
147. JURÍKOVÁ, A. - CSACH, K. - MIŠKUF, J. - OCELÍK, V. Structural relaxation of metallic glass after longtime loading. METALLOGRAPHY 2004: 12th International Symposium on Metallography, 28<sup>th</sup>-30<sup>th</sup> April, 2004, Academia Congress Centre, Stará Lesná, High Tatra Mountains, Slovak Republic. Eds. M.Longauerová, I.Hrivňák, S.Longauer, G.Janáč. In *Acta Metallurgica Slovaca*. Vol.10, no.1, special issue (2004), p.916-918.
148. BOBROV, O.P. - LAPTEV, S.N. - NEJCHOJZER, Ch. - CHONIK, V.A. - CSACH, K. Relaksacija naprjaženij i vjazkost' massivnogo metalličeskogo stekla Pd<sub>40</sub>Cu<sub>30</sub>Ni<sub>10</sub>P<sub>20</sub> v uslovijach izochronnogo nagreva. In *Fizika tverdogo tela*. Tom 46, no.10 (2004), p.1801-1805 = ( Physics of the Solid State. Vol.46, no.10 (2004), p.1863-1867.)
149. ADAMOVICH, M.I. - ANDREEVA, N.P. - BASOVA, E.S. - BRADNOVA, V. - BUBNOV, V.I. - CHERNYAVSKY, M.M. - GAITINOV, A.S. - GULAMOV, K.G. - HAIDUC, M. - HASEGAN, D. - JUST, L. - KANYGINA, E.K. - KHARLAMOV, S.P. - KOVALENKO, A.D. - KRASNOV, S.A. - KRAVCAKOVA, A. -

- LARIONOVA, V.G. - LEBEDEV, I.A. - LEVITSKAYA, O.V. - LUKICHEVA, N.S. - MUSAEVA, A.K. - NASYROV, S.Z. - NAVOTNY, V.S. - ORLOVA, G.I. - PERESADKO, N.G. - PHILIPPOVA, L.N. - PLYUSHCHEV, V.A. - RUSAKOVA, V.V. - SAIDKHANOV, N. - SALMANOVA, N.A. - SEITIMBETOV, A.M. - TRETYAKOVA, M.I. - SAIDKHANOV, N. - SALMANOVA, N.A. - SEITIMBETOV, A.M. - TRETYAKOVA, M.I. - TROFIMOVA, T.P. - VOKAL, S. - VRLAKOVA, J. - ZARUBIN, P.I. - ZHOKHOVA, S.I. Flow effects in high-energy nucleus collisions with Ag(Br) in emulsion. In *Jadernaja fizika*. Vol. 67, no. 2 (2004), p. 290-297 = *Physics of Atomic Nuclei*. Vol. 67, no. 2 (2004), p. 273-280.
150. ADAMOVICH, M.I. - BRADNOVA, V. - VOKAL, S. - GERASIMOV, S.G. - DRONOV, V.A. - ZARUBIN, P.I. - KOVALENKO, A.D. - KOTELNIKOV, K.A. - KRASNOV, V.A. - LARIONOVA, V.G. - LEPEKHIN, F.G. - MALAKHOV, A.I. - ORLOVA, G.I. - PERESADKO, N.G. - POLUKHINA, N.G. - RUKOYATKIN, P.A. - RUSAKOVA, V.V. - SALMANOVA, N.A. - SIMONOV, B.B. - CHERNYAVSKY, M.M. - HAIDUC, M. - KHARLAMOV, S.P. - JUST, L. Investigation of clustering in light nuclei by means of relativistic-multifragmentation processes. In *Jadernaja fizika*. Vol. 67, no. 3 (2004), p. 533-536 = *Physics of Atomic Nuclei*. Vol. 67, no. 3 (2004), p. 514-517.
151. VESELOVSKY, I.S. - PANASYUK, M.I. - AVDYUSHIN, S.I. - BAZILEVSKAYA, G.A. - BELOV, A.V. - BOGACHEV, S.A. - BOGOD, V.M. - BOGOMOLOV, A.V. - BOTHMER, V. - BOYARCHUK, K.A. - VASHENYUK, E.V. - VLASOV, V.I. - GNEZDILOV, A.A. - GORGUTSA, R.V. - GRECHNEV, V.V. - DENISOV, Yu.I. - DMITRIEV, A.V. - DRYER, M. - YERMOLAEV, Yu.I. - EROSHENKO, E.A. - ZHEREBTSOV, G.A. - ZHITNIK, I.A. - ZHUKOV, A.N. - ZASTENKER, G.N. - ZELENYI, L.M. - ZELDOVICH, M.A. - IVANOV-KHOLODNYI, G.S. - IGNAŤEV, A.P. - ISHKOV, V.N. - KOLOMIYTSEV, O.P. - KRASHENINNIKOV, I.A. - KUDELA, K. - KUZHEVSKY, B.M. - KUZIN, S.V. - KUZNETSOV, V.D. - KUZNETSOV, S.N. - KURT, V.G. - LAZUTIN, L.L. - LESHCHENKO, L.N. - LITVAK, M.L. - LOGACHEV, Yu.I. - LAWRENCE, G. - MARKEEV, A.K. - MAKHMUTOV, V.S. - MITROFANOV, A.V. - MITROFANOV, I.G. - MOROZOV, O.V. - MYAGKOVA, I.N. - NUSINOV, A.A. - OPARIN, S.N. - PANASENCO, O.A. - PERTSOV, A.A. - PETRUKOVICH, A.A. - PODOROĽSKY, A.N. - ROMASHETS, E.P. - SVERTILOV, S.I. - SVIDSKY, P.M. - SVIRZHEVSKAYA, A.K. - SVIRZHEVSKY, N.S. - SLEMZIN, V.A. - SMITH, Z. - SOBELMAN, I.I. - SOBOLEV, D.E. - STOZHKOVA, Yu.I. - SUVOROVA, A.V. - SUKHODREV, N.K. - TINDO, I.P. - TOKHCHUKOVA, S.Kh. - FOMICHEV, V.V. - CHASHEY, I.V. - CHERTOK, I.M. - SHISHOV, V.I. - YUSHKOV, B.Yu. - YAKOVCHOUK, O.S. - YANKE, V.G. Solar and Heliospheric Phenomena in October-November 2003: Causes and Effects. In *Kosmičeskije issledovanija*. Vol.42, no.5 (2004), p.453-508 (*Cosmic Research*. Vol.42, no.5 (2004), p.435-488.)
152. KAVEČANSKÝ, V. - MIHALIK, M. - MAŤAŠ, S. - MITRÓOVÁ, Z. - LUKÁČOVÁ, M. Crystal Structure and Magnetism of Pr[Fe(CN)<sub>6</sub>].4D<sub>2</sub>O. EPDIC: 9th European Powder Diffraction Conference, September 2 - 5, 2004, Praha, Czech Republic. Book of abstracts. Praha: Krystalografická společnost, 2004. In *Materials Structure in Chemistry, Biology, Physics and Technology*. Vol.11, no.1a (2004), abstr.p.201.
153. AKATOV, Yu.A. - AKULIN, A.I. - ASOSKOVA, E.O. - BELYAEV, A.A. - GAGARIN, Yu.F. - GORDEEV, Yu.P. - GRACHEV, E.A. - GRIGORYAN, O.R. - KUDELA, K. - MYASNIKOV, A.G. - JUST, L. The Radiation-Measuring Complex of the SPRUT-VI System. In *Pribory i Tekhnika Eksperimenta*. Vol.47, no.1 (2004),

p.115-121 ( Instruments and Experimental Techniques. Vol.47, no.1 (2004), p.103-108.)

154. IDZIKOWSKI, B. - KRENICKÝ, T. - KLENKE, J. - DANILKIN, S. Spin waves in amorphous and nanocrystalline  $\text{Fe}_{73.5-x}\text{Ni}_x\text{Si}_{13.5}\text{Cu}_1\text{Nb}_3\text{B}_9$  ( $x=10$  or  $30$ ). In *BENSC Experimental Reports 2003*. Eds. Y.Kirschbaum, M.Tovar, D.Bischoff, R.Michaelsen. Berlin: HMI - B 595, 2004. ISSN 0936-0891.
155. MARCIN, J. - ECKERLEBE, H. - KOZIK, G. - ŠKORVÁNEK, I. SANS study of the early stages-of crystallization in the soft magnetic Fe-Zr-B-Cu nanocrystalline alloys. In *GeNF - Experimental Report 2003*. Eds A.Schreyer, J.Vollbrandt, R.Willumeit. Geesthacht GKSS 2004/1. ISSN 0344-7629.
156. ŠTETIAROVÁ, J. - KUDELA, K. - SLIVKA, M. DOK-2 o Interball 1: Available data at IEP SAS. Preprint ÚEF - 01 - 04. Košice: ÚEF SAV, 2004. 11 s.

### Vedecké práce v zborníkoch recenzovaných

157. SZABÓ, P. - SAMUELY, P. - KAČMARČÍK, J. - HOLANOVÁ, Z.  $\text{MgB}_2$  - unikátny dvojmedzerový supravodič. In *13. konferencia slovenských fyzikov, 25. - 28.8.2003, Kongresové centrum SAV, Smolenice*. Zborník príspevkov. Ed. M. Reiffers. Bratislava: SFS, 2004. p.20-25.
158. SKYBA, P. - GAŽO, E. - KUPKA, M. - MEDEOVÁ, M. - FISHER, S.N. - GUÉNAULT, A.M. - PICKETT, G.R. Spinová dynamika v supratekutom  $3\text{He-B}$  alebo čo je nové pri absolútnej nule. In *13. konferencia slovenských fyzikov, 25. - 28.8.2003, Kongresové centrum SAV, Smolenice*. Zborník príspevkov. Ed. M. Reiffers. Bratislava: SFS, 2004. p.31-35.
159. GABÁNI, S. - FLACHBART, K. - PAVLÍK, V. - BAUER, E. - BERGER, S. - DELLA MEA, M. - PAUL, C. - PADERNO, Y. - SHITSEVALOVA, N. Tlakom indukovaný fázový prechod polovodič - kov v  $\text{SmB}_6$ . In *13. konferencia slovenských fyzikov, 25. - 28.8.2003, Kongresové centrum SAV, Smolenice*. Zborník príspevkov. Ed. M. Reiffers. Bratislava: SFS, 2004. p.63-64.
160. REIFFERS, M. - ILKOVIČ, S. - ZORKOVSKÁ, A. - BAUER, E. Mikrokontaktové vlastnosti zlúčeniny  $\text{YbCu}_{3.5}\text{Al}_{1.5}$  typu nie Fermiho kvapaliny. In *13. konferencia slovenských fyzikov, 25. - 28.8.2003, Kongresové centrum SAV, Smolenice*. Zborník príspevkov. Ed. M. Reiffers. Bratislava: SFS, 2004. p.75-76.
161. MIHALIK, M. Nekolineárne feromagnetické usporiadanie v  $\text{U}_3\text{Al}_2\text{Si}_3$  Smolenice. Zborník príspevkov. Ed. M. Reiffers. Bratislava: SFS, 2004. p.79-80.
162. DIRNER, A. - ČERNÁK, J. - URBÁN, J. - ASTALOŠ, J. - ŠUJANSKÝ, M. - BÁBIK, M. - BRUNCKO, D. - JUSKO, A. Grid ako prostriedok pre distribuované a globálne výpočty vo fyzike. In *13. konferencia slovenských fyzikov, 25. - 28.8.2003, Kongresové centrum SAV, Smolenice*. Zborník príspevkov. Ed. M. Reiffers. Bratislava: SFS, 2004. p.117-118.
163. ZENTKOVÁ, M. O fyzike zvierat, ľudí a vecí. In *13. konferencia slovenských fyzikov, 25. - 28.8.2003, Kongresové centrum SAV, Smolenice*. Zborník príspevkov. Ed. M. Reiffers. Bratislava: SFS, 2004. p.123-124.

164. JURÍKOVÁ, A. - CSACH, K. - MIŠKUF, J. - OCELÍK, V. Štruktúrna relaxácia kovového skla po dlhodobom zaťažení. In *13. konferencia slovenských fyzikov, 25. - 28.8.2003, Kongresové centrum SAV, Smolenice*. Zborník príspevkov. Ed. M. Reiffers. Bratislava: SFS, 2004. p.143-144.
165. ZENTKOVÁ, M. - KAVEČANSKÝ, V. - MIHALIK, M. - ZENTKO, A. - SENDEK, M. - CSACH, K. - MIGLIERINI, M. Magnetické vlastnosti vybraných nitroprusidov prechodových kovov. In *13. konferencia slovenských fyzikov, 25. - 28.8.2003, Kongresové centrum SAV, Smolenice*. Zborník príspevkov. Ed. M. Reiffers. Bratislava: SFS, 2004. p.149-150.
166. ŠTELINA, J. - MUSIL, C. - BRACINÍK, J. - KOPČANSKÝ, P. - TIMKO, M. - KONERACKÁ, M. Teplotná závislosť relaxačnej doby zániku difrakčnej mriežky vytvorenej vo vzorke magnetickej kvapaliny. In *13. konferencia slovenských fyzikov, 25. - 28.8. 2003, Kongresové centrum SAV, Smolenice*. Zborník príspevkov. Ed. M. Reiffers. Bratislava: SFS, 2004. p.155-156.
167. KOPČANSKÝ, P. - TOMČO, L. - MARTON, K. - KONERACKÁ, M. - TIMKO, M. Štúdium dielektrického prierazu v magnetických kvapalinách. In *13. konferencia slovenských fyzikov, 25. - 28.8. 2003, Kongresové centrum SAV, Smolenice*. Zborník príspevkov. Ed. M. Reiffers. Bratislava: SFS, 2004. p.157-158.
168. SLIVKA, M. - KUDELA, K. Bipolárne toky protónov v plazmovej vrstve chvosta magnetosféry Zeme. In *13. konferencia slovenských fyzikov, 25. - 28.8.2003, Kongresové centrum SAV, Smolenice*. Zborník príspevkov. Ed. M. Reiffers. Bratislava: SFS, 2004. p.161-162.
169. SLIVKA, M. - KUDELA, K. Určenie polohy neutrálneho bodu pomocou merania anizotropie tokov protónov stredných energií na družici Interball-1. In *13. konferencia slovenských fyzikov, 25. - 28.8.2003, Kongresové centrum SAV, Smolenice*. Zborník príspevkov. Ed. M. Reiffers. Bratislava: SFS, 2004. p.163-164.
170. GINTNER, M. - MELO, I. - TRPIŠOVÁ, B. - BRUNCKO, D. Produkcia nových rezonancií z elektroslabého sektora na budúcich  $e^+e^-$  urýchľovačoch. In *13. konferencia slovenských fyzikov, 25. - 28.8.2003, Kongresové centrum SAV, Smolenice*. Zborník príspevkov. Ed. M. Reiffers. Bratislava: SFS, 2004. p.165-166.
171. TIMKO, M. - KOPČANSKÝ, P. - KONERACKÁ, M. - ŠAFAŘÍK, I. - ŠAFAŘÍKOVÁ, M. Využitie magnetických kvapalín v medicíne a biotechnológiách. In *13. konferencia slovenských fyzikov, 25. - 28.8.2003, Kongresové centrum SAV, Smolenice*. Zborník príspevkov. Ed. M. Reiffers. Bratislava: SFS, 2004. p.175-176.
172. DEANKO, M. - KRENICKÝ, T. - ŠKORVÁNEK, I. - ŠVEC, P. Size distribution of nanocrystalline grains in magnetic metallic systems prepared by rapid quenching. In *ELEKTRO 2004: 5. medzinárodná konferencia Nove smery v diagnostike a opravách elektrických strojov a zariadení, 25.-26.máj 2004, Žilina*. Eds. P.Buray, D.Pudiš, J.Martinák. Žilina: ŽU EF, 2004. ISBN 80-8070-252-7. Vol.2, p. 350-353.
173. \*\* MEHTA, A. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Electroweak Physics and Searches. In *DIS 2003: Proceedings of the 11th International Workshop on Deep Inelastic Scattering, 23-27 April 2003, St. Petersburg, Russia*. Eds. V.T.Kim, L.N.Lipatov. Plenary Sessions. St. Petersburg: PNPI, 2003. ISBN 5-86763-148-6. p.19.
174. \*\* NAROSKA, B. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Production of Heavy Quarks at HERA. In *DIS 2003: Proceedings of the 11th International Workshop on Deep Inelastic Scattering,*

- 23-27 April 2003, St. Petersburg, Russia. Eds. V.T.Kim, L.N.Lipatov. Plenary Sessions. St. Petersburg: PNPI, 2003. ISBN 5-86763-148-6. p.21.
175. \*\* LENDERMANN, V. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Measurement of  $F_2$  at Low  $Q^2$  Using QED Compton Scattering at HERA. In *DIS 2003: Proceedings of the 11th International Workshop on Deep Inelastic Scattering, 23-27 April 2003, St. Petersburg, Russia.* Eds. V.T.Kim, L.N.Lipatov. Session: Structure Functions, Low x and Diffraction. St. Petersburg: PNPI, 2003. ISBN 5-86763-148-6. p.81.
  176. \*\* LOBODZINSKA, E. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Determination of the Longitudinal Proton Structure Function  $F_L$  at Low  $Q^2$  at HERA. In *DIS 2003: Proceedings of the 11th International Workshop on Deep Inelastic Scattering, 23-27 April 2003, St. Petersburg, Russia.* Eds. V.T.Kim, L.N.Lipatov. Session: Structure Functions, Low x and Diffraction. St. Petersburg: PNPI, 2003. ISBN 5-86763-148-6. p.93.
  177. \*\* REISERT, B. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) H1 QCD Fit and Extraction of PDFs. In *DIS 2003: Proceedings of the 11th International Workshop on Deep Inelastic Scattering, 23-27 April 2003, St. Petersburg, Russia.* Eds. V.T.Kim, L.N.Lipatov. Session: Structure Functions, Low x and Diffraction. St. Petersburg: PNPI, 2003. ISBN 5-86763-148-6. p.109.
  178. \*\* BECKINGHAM, M. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Diffractive photoproduction of J/ mesons with large momentum transfer. In *DIS 2003: Proceedings of the 11th International Workshop on Deep Inelastic Scattering, 23-27 April 2003, St. Petersburg, Russia.* Eds. V.T.Kim, L.N.Lipatov. Session: Structure Functions, Low-x and Diffraction. St. Petersburg: PNPI, 2003. ISBN 5-86763-148-6. p.254.
  179. \*\* FLEISCHMANN, P. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Elastic Photoproduction of J/psi Mesons at HERA. In *DIS 2003: Proceedings of the 11th International Workshop on Deep Inelastic Scattering, 23-27 April 2003, St. Petersburg, Russia.* Eds. V.T.Kim, L.N.Lipatov. Session: Structure Functions, Low x and Diffraction. St. Petersburg: PNPI, 2003. ISBN 5-86763-148-6. p.255.
  180. \*\*\* TERASHI, K. for CDF Collaboration (-...- ANTOŠ, J. -...-) RUN II Diffractive Measurements at CDF. In *DIS 2003: Proceedings of the 11th International Workshop on Deep Inelastic Scattering, 23-27 April 2003, St. Petersburg, Russia.* Eds. V.T.Kim, L.N.Lipatov. Session: Structure Functions, Low-x and Diffraction. St. Petersburg: PNPI, 2003. ISBN 5-86763-148-6. p.297.
  181. \*\* SCHÄTZEL, S. for H1 Collaboration (ADLOFF, C. -...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Diffractive Final States and Tests of QCD Factorisation. In *DIS 2003: Proceedings of the 11th International Workshop on Deep Inelastic Scattering, 23-27 April 2003, St. Petersburg, Russia.* Eds. V.T.Kim, L.N.Lipatov. Session: Structure Functions, Low x and Diffraction. St. Petersburg: PNPI, 2003. ISBN 5-86763-148-6. p.308.
  182. \*\* PEREZ, E. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Searches for R-parity Violating Supersymmetry at HERA. In *DIS 2003: Proceedings of the 11th International Workshop on Deep Inelastic Scattering, 23-27 April 2003, St. Petersburg, Russia.* Eds. V.T.Kim, L.N.Lipatov. Session: Electroweak and physics beyond SM. St. Petersburg: PNPI, 2003. ISBN 5-86763-148-6. p.339.

183. \*\* SCHEINS, J. for H1 Collaboration (--- BRUNCKO, D. --- FERENCEI, J. --- MURÍN, P. ---) Search for Physics Beyond the Standard Model at HERA. In *DIS 2003: Proceedings of the 11th International Workshop on Deep Inelastic Scattering, 23-27 April 2003, St. Petersburg, Russia.* Eds. V.T.Kim, L.N.Lipatov. Session: Electroweak and physics beyond SM. St. Petersburg: PNPI, 2003. ISBN 5-86763-148-6. p.344.
184. \*\* SCHÖNING, A. for H1 Collaboration (--- BRUNCKO, D. --- FERENCEI, J. --- MURÍN, P. ---) Search for Single top Production in ep Collisions at HERA. In *DIS 2003: Proceedings of the 11th International Workshop on Deep Inelastic Scattering, 23-27 April 2003, St. Petersburg, Russia.* Eds. V.T.Kim, L.N.Lipatov. Session: Electroweak and physics beyond SM. St. Petersburg: PNPI, 2003. ISBN 5-86763-148-6. p.360.
185. \*\* PARENTI, A. for H1 and ZEUS Collaboration (--- BRUNCKO, D. --- FERENCEI, J. --- MURÍN, P. ---) Multi-lepton Events at HERA. In *DIS 2003: Proceedings of the 11th International Workshop on Deep Inelastic Scattering, 23-27 April 2003, St. Petersburg, Russia.* Eds. V.T.Kim, L.N.Lipatov. Session: Electroweak and physics beyond SM. St. Petersburg: PNPI, 2003. ISBN 5-86763-148-6. p.396.
186. \*\* MAXFIELD, S.J. for H1 Collaboration (--- BRUNCKO, D. --- FERENCEI, J. --- MURÍN, P. ---) A Search for Magnetic Monopoles at HERA. In *DIS 2003: Proceedings of the 11th International Workshop on Deep Inelastic Scattering, 23-27 April 2003, St. Petersburg, Russia.* Eds. V.T.Kim, L.N.Lipatov. Session: Electroweak and physics beyond Standard Model. St. Petersburg: PNPI, 2003. ISBN 5-86763-148-6. p.401.
187. \*\* SCHNEIDER, M. for H1 and ZEUS Collaboration (--- BRUNCKO, D. --- FERENCEI, J. --- MURÍN, P. ---) Searches for Excited Fermions at HERA. In *DIS 2003: Proceedings of the 11th International Workshop on Deep Inelastic Scattering, 23-27 April 2003, St. Petersburg, Russia.* Eds. V.T.Kim, L.N.Lipatov. Session: Electroweak and physics beyond SM. St. Petersburg: PNPI, 2003. ISBN 5-86763-148-6. p.402.
188. \*\* SPECKA, A.E. for H1 Collaboration (ADLOFF, C. --- BRUNCKO, D. --- FERENCEI, J. --- MURÍN, P. ---) Measurement of Inclusive jet Cross-sections at Low  $Q^2$  at HERA. In *DIS 2003: Proceedings of the 11th International Workshop on Deep Inelastic Scattering, 23-27 April 2003, St. Petersburg, Russia.* Eds. V.T.Kim, L.N.Lipatov. Session: Hadronic Final States. St. Petersburg: PNPI, 2003. ISBN 5-86763-148-6. p.444.
189. \*\* GOERLICH, L. for H1 Collaboration (--- BRUNCKO, D. --- FERENCEI, J. --- MURÍN, P. ---) Forward Jet and Pion Production in Deep-inelastic Scattering at H1. In *DIS 2003: Proceedings of the 11th International Workshop on Deep Inelastic Scattering, 23-27 April 2003, St. Petersburg, Russia.* Eds. V.T.Kim, L.N.Lipatov. Session: Hadronic Final States. St. Petersburg: PNPI, 2003. ISBN 5-86763-148-6. p.493.
190. \*\* PÖSCHL, R. for H1 Collaboration (--- BRUNCKO, D. --- FERENCEI, J. --- MURÍN, P. ---) Dijet Production at Low Bjorken-x in DIS. In *DIS 2003: Proceedings of the 11th International Workshop on Deep Inelastic Scattering, 23-27 April 2003, St. Petersburg, Russia.* Eds. V.T.Kim, L.N.Lipatov. Session: Hadronic Final States. St. Petersburg: PNPI, 2003. ISBN 5-86763-148-6. p.499.
191. \*\* LEMRANI, R. for H1 and ZEUS Collaboration (--- BRUNCKO, D. --- FERENCEI, J. --- MURÍN, P. ---) Prompt Photon Production at HERA. In *DIS 2003:*

- Proceedings of the 11th International Workshop on Deep Inelastic Scattering, 23-27 April 2003, St. Petersburg, Russia.* Eds. V.T.Kim, L.N.Lipatov. Session: Hadronic Final States. St. Petersburg: PNPI, 2003. ISBN 5-86763-148-6. p.531.
192. \*\* ANDRIEU, B. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Inclusive Jet Photoproduction at HERA. In *DIS 2003: Proceedings of the 11th International Workshop on Deep Inelastic Scattering, 23-27 April 2003, St. Petersburg, Russia.* Eds. V.T.Kim, L.N.Lipatov. Session: Hadronic Final States. St. Petersburg: PNPI, 2003. ISBN 5-86763-148-6. p.581.
193. \*\* KROPIVNITSKAYA, A. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Measurements of the Inclusive Photoproduction of Light Mesons at HERA. In *DIS 2003: Proceedings of the 11th International Workshop on Deep Inelastic Scattering, 23-27 April 2003, St. Petersburg, Russia.* Eds. V.T.Kim, L.N.Lipatov. Session: Hadronic Final States. St. Petersburg: PNPI, 2003. ISBN 5-86763-148-6. p.613.
194. \*\* FLUCKE, G. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Photoproduction of  $D^*$  Mesons at HERA. In *DIS 2003: Proceedings of the 11th International Workshop on Deep Inelastic Scattering, 23-27 April 2003, St. Petersburg, Russia.* Eds. V.T.Kim, L.N.Lipatov. Session: Heavy Flavours. St. Petersburg: PNPI, 2003. ISBN 5-86763-148-6. p.711.
195. \*\* SCHMIDT, S. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Inclusive  $D^*$  Meson and Associated Dijet Production in Deep-inelastic Scattering. In *DIS 2003: Proceedings of the 11th International Workshop on Deep Inelastic Scattering, 23-27 April 2003, St. Petersburg, Russia.* Eds. V.T.Kim, L.N.Lipatov. Session: Heavy Flavours. St. Petersburg: PNPI, 2003. ISBN 5-86763-148-6. p.727.
196. \*\* GERLICH, Ch. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Beauty Production at HERA. H1 results. In *DIS 2003: Proceedings of the 11th International Workshop on Deep Inelastic Scattering, 23-27 April 2003, St. Petersburg, Russia.* Eds. V.T.Kim, L.N.Lipatov. Session: Heavy Flavours. St. Petersburg: PNPI, 2003. ISBN 5-86763-148-6. p.756.
197. \*\* GREENSHAW, T. from H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Recent Results from H1. In *DIS 2004: Proceedings of the 12th International Workshop on Deep Inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004.* Eds. D.Bruncko, J.Ferencei, P.Stríženec. Vol.I. Plenary and summary talks. Bratislava: Academic Electronic Press, 2004. ISBN 80-88880-57-2. p.103-117.
198. \*\* LOBODZINSKA, E.M. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) New and Recent Measurements of  $F_2$  and  $F_L$  at Low  $Q^2$ . In *DIS 2004: Proceedings of the 12th International Workshop on Deep Inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004.* Eds. D.Bruncko, J.Ferencei, P.Stríženec. Vol.I. Working group A. Bratislava: Academic Electronic Press, 2004. ISBN 80-88880-57-2. p.338-343.
199. \*\* PETRUKHIN, A. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) New Measurement of the Structure Function  $F_2(X, Q^2)$  at Low  $Q^2$  with Initial state Radiation data. In *DIS 2004: Proceedings of the 12th International Workshop on Deep Inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18*

- April 2004. Eds. D.Bruncko, J.Ferencei, P.Striženec. Vol.I. Working group A. Bratislava: Academic Electronic Press, 2004. ISBN 80-88880-57-2. p.372-376.
200. \*\* PORTHEAULT, B. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) H1 QCD Analysis of Inclusive Cross Section Data. In *DIS 2004: Proceedings of the 12th International Workshop on Deep Inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004*. Eds. D.Bruncko, J.Ferencei, P.Striženec. Vol.I. Working group A. Bratislava: Academic Electronic Press, 2004. ISBN 80-88880-57-2. p.377-380.
  201. \*\* FAVART, L. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Deeply Virtual Compton Scattering t HERA. In *DIS 2004: Proceedings of the 12th International Workshop on Deep Inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004*. Eds. D.Bruncko, J.Ferencei, P.Striženec. Vol.I. Working group B. Bratislava: Academic Electronic Press, 2004. ISBN 80-88880-57-2. p.478-481.
  202. \*\* KAPISHIN, M. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-)  $F_D^2(3)$  Measurements at Low, Medium and High  $Q^2$ . In *DIS 2004: Proceedings of the 12th International Workshop on Deep Inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004*. Eds. D.Bruncko, J.Ferencei, P.Striženec. Vol.I. Working group B. Bratislava: Academic Electronic Press, 2004. ISBN 80-88880-57-2. p.486-491.
  203. \*\* KLASSEN, M. - KRAMER, G. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Factorization Breaking in Diffractive Photoproduction of Dijets. In *DIS 2004: Proceedings of the 12th International Workshop on Deep Inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004*. Eds. D.Bruncko, J.Ferencei, P.Striženec. Vol.I. Working group B. Bratislava: Academic Electronic Press, 2004. ISBN 80-88880-57-2. p.492-498.
  204. \*\* SCHÄTZEL, S. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Comparison of Diffractive Final States With LO and LO QCD Predictions. In *DIS 2004: Proceedings of the 12th International Workshop on Deep Inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004*. Eds. D.Bruncko, J.Ferencei, P.Striženec. Vol.I. Working group B. Bratislava: Academic Electronic Press, 2004. ISBN 80-88880-57-2. p.529-534.
  205. \*\* STRIKMAN, M. - WEISS, C. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) The Nucleon s Gluonic Transverse Size: From Exclusive J/v Photoproduction to High-Energy pp Collisions. In *DIS 2004: Proceedings of the 12th International Workshop on Deep Inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004*. Eds. D.Bruncko, J.Ferencei, P.Striženec. Vol.I. Working group B. Bratislava: Academic Electronic Press, 2004. ISBN 80-88880-57-2. p.558-563.
  206. \*\* GOERLICH, L. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Forward  $p^0$  Production in DIS. In *DIS 2004: Proceedings of the 12th International Workshop on Deep Inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004*. Eds. D.Bruncko, J.Ferencei, P.Striženec. Vol.II. Working group C. Bratislava: Academic Electronic Press, 2004. ISBN 80-88880-57-2. p.611-614.
  207. \*\* KNUTSSON, A. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Studies of forward jets in DIS. In *DIS 2004: Proceedings of the 12th International Workshop on Deep Inelastic Scattering, Štrbské*



- Pleso, High Tatras, Slovakia, 14-18 April 2004.* Eds. D.Bruncko, J.Ferencei, P.Striženec. Vol.II. Working group C. Bratislava: Academic Electronic Press, 2004. ISBN 80-88880-57-2. p.633-639.
208. \*\* PÖSCHL, R. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Dijet Production at Low Bjorken-X in DIS. In *DIS 2004: Proceedings of the 12th International Workshop on Deep Inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004.* Eds. D.Bruncko, J.Ferencei, P.Striženec. Vol.II. Working group C. Bratislava: Academic Electronic Press, 2004. ISBN 80-88880-57-2. p.688-691.
209. \*\* SEDLÁK, K. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Measurement of Dijet Production at Low  $Q^2$  at HERA. In *DIS 2004: Proceedings of the 12th International Workshop on Deep Inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004.* Eds. D.Bruncko, J.Ferencei, P.Striženec. Vol.II. Working group C. Bratislava: Academic Electronic Press, 2004. ISBN 80-88880-57-2. p.706-709.
210. \*\* SLOAN, T. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Inclusive Anti-Deuteron Photoproduction at HERA. In *DIS 2004: Proceedings of the 12th International Workshop on Deep Inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004.* Eds. D.Bruncko, J.Ferencei, P.Striženec. Vol.II. Working group C. Bratislava: Academic Electronic Press, 2004. ISBN 80-88880-57-2. p.716-720.
211. \*\* KLUGE, T. - YAN, W.B. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Event Shapes in DIS at H1. In *DIS 2004: Proceedings of the 12th International Workshop on Deep Inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004.* Eds. D.Bruncko, J.Ferencei, P.Striženec. Vol.II. Working group C. Bratislava: Academic Electronic Press, 2004. ISBN 80-88880-57-2. p.736-739.
212. \*\* SCHMIDT, S. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Evidence for a Narrow Exotic Anti-Charmed Baryon State. In *DIS 2004: Proceedings of the 12th International Workshop on Deep Inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004.* Eds. D.Bruncko, J.Ferencei, P.Striženec. Vol.II. Working group D. Bratislava: Academic Electronic Press, 2004. ISBN 80-88880-57-2. p.842-845.
213. \*\* THOMPSON, P. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Measurement of  $F_2^{CC}$  and  $F_2^{BB}$  at High  $Q^2$  Using the H1 Vertex Detector at HERA. In *DIS 2004: Proceedings of the 12th International Workshop on Deep Inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004.* Eds. D.Bruncko, J.Ferencei, P.Striženec. Vol.II. Working group D. Bratislava: Academic Electronic Press, 2004. ISBN 80-88880-57-2. p.855-858.
214. \*\* BRANDT, G. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Events with  $\dagger$  Leptons at HERA. In *DIS 2004: Proceedings of the 12th International Workshop on Deep Inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004.* Eds. D.Bruncko, J.Ferencei, P.Striženec. Vol.II. Working group E. Bratislava: Academic Electronic Press, 2004. ISBN 80-88880-57-2. p.915-918.
215. \*\* CARMINATI, L. for ATLAS Collaboration (-...- BÁN, J. -...- BRUNCKO, D. -...- CHYTRÁČEK, R. -...- JUSKO, A. -...- KLADIVA, E. -...- STRÍŽENEC, P. -...-) Study of the  $H \rightarrow \dagger\dagger$  Decay with the ATLAS Detector. In *DIS 2004: Proceedings of the 12th*

- International Workshop on Deep Inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004.* Eds. D.Bruncko, J.Ferencei, P.Stríženeč. Vol.II. Working group E. Bratislava: Academic Electronic Press, 2004. ISBN 80-88880-57-2. p.925-928.
216. BRUNCKO, D. - GINTNER, M. - MELO, I. Vector Resonances from Strong Electroweak Symmetry Breaking at  $E^+E^-$  Colliders. In *DIS 2004: Proceedings of the 12th International Workshop on Deep Inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004.* Eds. D.Bruncko, J.Ferencei, P.Stríženeč. Vol.II. Working group E. Bratislava: Academic Electronic Press, 2004. ISBN 80-88880-57-2. p.982-985.
217. \*\* PEEZ, M. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) General Search for New Phenomena in  $EP$  Scattering at HERA. In *DIS 2004: Proceedings of the 12th International Workshop on Deep Inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004.* Eds. D.Bruncko, J.Ferencei, P.Stríženeč. Vol.II. Working group E. Bratislava: Academic Electronic Press, 2004. ISBN 80-88880-57-2. p.994-997.
218. \*\* SAUVAN, E. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) High  $P_T$  Multi-Lepton Production at HERA. In *DIS 2004: Proceedings of the 12th International Workshop on Deep Inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004.* Eds. D.Bruncko, J.Ferencei, P.Stríženeč. Vol.II. Working group E. Bratislava: Academic Electronic Press, 2004. ISBN 80-88880-57-2. p.1013-1016.
219. \*\* SOUTH, D. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Events with High  $P_T$  Leptons and Missing  $P_T$  and Anomalous Top at HERA. In *DIS 2004: Proceedings of the 12th International Workshop on Deep Inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004.* Eds. D.Bruncko, J.Ferencei, P.Stríženeč. Vol.II. Working group E. Bratislava: Academic Electronic Press, 2004. ISBN 80-88880-57-2. p.1023-1026.
220. \*\* SZTUK, J. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Searches for Leptoquarks and Contact Interactions at HERA. In *DIS 2004: Proceedings of the 12th International Workshop on Deep Inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004.* Eds. D.Bruncko, J.Ferencei, P.Stríženeč. Vol.II. Working group E. Bratislava: Academic Electronic Press, 2004. ISBN 80-88880-57-2. p.1043-1047.
221. \*\* VEST, A. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Searches for Squarks with H1 at HERA. In *DIS 2004: Proceedings of the 12th International Workshop on Deep Inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004.* Eds. D.Bruncko, J.Ferencei, P.Stríženeč. Vol.II. Working group E. Bratislava: Academic Electronic Press, 2004. ISBN 80-88880-57-2. p.1052-1055.
222. KUZNETSOV, S.N. - RYUMIN, S.P. - KUDELA, K. - SLIVKA, M. - JUST, L. - ROJKO, J. - BALÁŽ, J. - FISCHER, S. Measurements of energetic particles at low altitudes: selected results obtained on Intercosmos satellites. In *Materialy mezhdunarodnoj nauchnoj konferencii "Interkosmos-30"*, 9-10.4. 2001, Moskva. Sekcija Fizika kosmičeskich lučej. Moskva: BLOK-Inform-Ekspress, 2003. p.218-221. English translation p.222-224.
223. LUTSENKO, V.N. - FISCHER, S. - VANDAS, M. - PLCH, J. - NEMECEK, Z. - SAFRANKOVA, J. - VESELY, V. - KUDELA, K. - SLIVKA, M. - ROJKO, J. -

- BALÁŽ, J. Study of energetic particles of solar and magnetospheric origin in a frame of Intercosmos program. In *Materialy mezhdunarodnoj nauchnoj konferencii "Interkosmos-30", 9-10.4. 2001, Moskva*. Sekcija Fizika kosmičeskich lučej. Moskva: BLOK-Info-Ekspress, 2003. p.246-250. English translation p.251-253.
224. McKENNA-LAWLOR, S.M.P. - DRYER, M. - SMITH, Z. - KECSKEMETY, K. - FRY, C.D. - SUN, W. - DEEHR, C.S. - BERDICHEVSKY, D. - KUDELA, K. - ZASTENKER, G. Real time predictions of three numerical models of the arrival at the earth of eleven flare/halo CME associated shocks compared with spacecraft measurements. In *Proceedings of Space Weather Workshop: Looking Towards a European Space Weather Programme, 17-19 December, 2001*. Nordwijk, The Netherlands: ESTEC, 2003. p.191-196.
225. KUZNETSOV, S.N. - MYAGKOVA, I.N. - STAROSTIN, L.I. - YUSHKOV, B. Yu. - KUDELA, K. - DENISOV, Y.V. Dynamics of earth's radiation belts during the magnetic storm of 6 november 2001. In *34th COSPAR Scientific Assembly, The Second World Space Congress, 10-19 October 2002, Houston, TX, USA*. NASA: ADS, 2004. p.659.
226. GRACHEV, E. - GRIGORJAN, O. - KLIMOV, S. - KUDELA, K. - PETROV, A. - SHEVELEVA, V. - SHUISKAYA, F. - ŠTETIAROVÁ, J. Analysis of altitude distribution of electron fluxes at L=1.2-1.9. In *34th COSPAR Scientific Assembly, The Second World Space Congress, 10-19 October 2002, Houston, TX, USA*. NASA: ADS, 2004. p.758.
227. MINAROVJECH, A. - RUŠIN, V. - RYBANSKÝ, M. - KUDELA, K. - KOLLÁR, V. On one approach to space weather studies from ground based observations. In *34th COSPAR Scientific Assembly, The Second World Space Congress, 10-19 October 2002, Houston, TX, USA*. NASA: ADS, 2004. p. 919.
228. KUZNETSOV, S.N. - KUDELA, K. - MYAGKOVA, I.N. - PODOROLSKY, A.N. - RYUMIN, S.P. - YUSHKOV, B.Y. Largest SEP events observed on board CORONAS-F satellite from august 2001. In *34th COSPAR Scientific Assembly, The Second World Space Congress, 10-19 October 2002, Houston, TX, USA*. NASA: ADS, 2004. p.925.
229. KUDELA, K. - KECSKEMETY, K. - MCKENNA-LAWLOR, S. Medium Energy Ions Upstream from the Bow Shock: INTERBALL/DOK2 and SOHO/LION Characteristics. In *34th COSPAR Scientific Assembly, The Second World Space Congress, 10-19 October 2002, Houston, TX, USA*. NASA: ADS, 2004. p.947.
230. KUDELA, K. - SLIVKA, M. - SIBECK, D.G. Energetic ions near the earth's bow shock: statistical and case studies based on Interball-1 Measurements. In *34th COSPAR Scientific Assembly, The Second World Space Congress, 10-19 October 2002, Houston, TX, USA*. NASA, ADS, 2004. p.949.
231. PRECH, L. - ŠAFRÁNKOVÁ, J. - NEMEČEK, Z. - KUDELA, K. - SLIVKA, M. Plasma flow variations and energetic protons upstream of the Earth's bow shock: a statistical study. In *34th COSPAR Scientific Assembly, The Second World Space Congress, 10-19 October 2002, Houston, TX, USA*. NASA, ADS, 2004. p.2059.
232. SARAFPOULOS, D. - SARRIS, E.T. - LUTSENKO, V. - KUDELA, K. Pc5 Related Repetitive Microinjections of Energetic Electrons in the Inner Magnetosphere during Substorms: Interball/DOK2 Observations. In *34th COSPAR Scientific Assembly, The Second World Space Congress, 10-19 October 2002, Houston, TX, USA*. NASA, ADS, 2004. p.2116.

233. STORINI, M. - LAURENZA, M. - RYBAK, J. - ANTALOVA, A. - KUDELA, K. Comparing wavelet and traditional studies in the Gnevyshev Gap context. In *34th COSPAR Scientific Assembly, The Second World Space Congress, 10-19 October 2002, Houston, TX, USA*. NASA, ADS, 2004. p.2174.
234. BOCHEV, A. - KUDELA, K. Dynamics of field-aligned currents and hot particle fluxes in mid-altitude magnetosphere by INTERBALL- AU. In *34th COSPAR Scientific Assembly, The Second World Space Congress, 10-19 October 2002, Houston, TX, USA*. NASA, ADS, 2004. p.2365.
235. BUČÍK, R. - DMITRIEV, A.V. - KUDELA, K. - KUZNETSOV, S.N. - MYAGKOVA, I.N. - RYUMIN, S.P. Review of electron fluxes within the local drift loss cone: Measurements on Coronas-I. In *34th COSPAR Scientific Assembly, The Second World Space Congress, 10-19 October 2002, Houston, TX, USA*. NASA, ADS, 2004. p.2500.
236. KUDELA, K. Cosmic Ray Measurements at Lomnický Štít Observatory. In *Observatoire de Montagne de Moussala OM2, fascicule 9. High Mountain Observatories and the challenges of the 21<sup>st</sup> century, HIMONTONET European Workshop, 28 June - 3 July 2003, Borovetz, Bulgaria*. HIMONTONET FP5 Project "Joining of BEO Centre of Excellence to European Network of High Mountain Observatories. Eds. J.Stamenov, B.Vachev. Sofia: 2003. 250 p. p.156-162.
237. HNATIC, M. - HONKONEN, J. - JURČIŠIN, M. - MAZZINO, A. - ŠPRINC, S. Strong-anisotropy effects on scaling of passively advected magnetic field. In *ETC10: Advances in Turbulence X. Proceedings of the 10th European Turbulence Conference, Trondheim, Norway, June 29-July 2, 2004*. Eds. H.L. Andersson, P.A. Krogstad. Barcelona: CIMNE, 2004. p.820.
238. HNATIC, M. - CHKHETIANI, O. - JURČIŠIN, M. - MAZZINO, A. - REPAŠAN, M. Kraichnan model with synthetic helical velocity field. In *ETC10: Advances in Turbulence X. Proceedings of the 10th European Turbulence Conference, Trondheim, Norway, June 29-July 2, 2004*. Eds. H.L. Andersson, P.A. Krogstad. Barcelona: CIMNE, 2004. p.823.
239. ACTIS GRANDE, M. - DUDROVÁ, E. - KUPKOVÁ, M. - KUPKA, M. - ROSSO, M. Wear Resistance and Properties of Cr Mn Mo Sintered Steels. In *Euro PM2004: Powder Metallurgy World Congress & Exhibition, 17 - 21st October 2004, Austria Centre, Vienna, Austria, 17 - 21 October 2004*. Conference Proceedings. Vol.2: Sintering Secondary and Finishing Operations. p.309-315.
240. KUPKOVÁ, M. - KUPKA, M. - STROBL, S. - DUDROVÁ, E. Effective elastic properties of macrograded PM materials. In *Euro PM2004: Powder Metallurgy World Congress & Exhibition, 17 - 21st October 2004, Austria Centre, Vienna, Austria, 17 - 21 October 2004*. Conference Proceedings. Vol.3: Sintered Steels, PM Tool Materials. p.29-34.
241. KUPKOVÁ, M. - KUPKA, M. Pressure - Density Relation for a Metallic Powder undergoing Die Compaction. In *Euro PM2004: Powder Metallurgy World Congress & Exhibition, 17 - 21st October 2004, Austria Centre, Vienna, Austria, 17 - 21 October 2004*. Conference Proceedings. Vol.5: Full Density and Alternative Consolidation, Tools for Improving PM, PM Applications. p.203-207.
242. KOPČANSKÝ, P. - POTOČOVÁ, I. - KONERACKÁ, M. - TIMKO, M. - JADZYN, J. - CZECHOWSKI, G. - JANSEN, A.M.G. The structural transitions in thermotropic ferronematics. In *15th Conference on Liquid Crystals: Proceedings of SPIE*. Ed.J.Zmija. Vol.5565 (2004), p.263-269.

## nerecenzovaných

243. KUDELA, K. Extreme disturbances in space in october - november 2003: energetic space particles. (Extrémne poruchy v kozmickom priestore v októbri a novembri 2003: energetické kozmické častice.). In *MWT2004: Zborník príspevkov na 2. konferencii s výstavou "Mikrovlnová a bezdrôtová technika 2004", 13.-14.septembra 2004, Košice. (Proceedings of the 2nd Conference with Exhibition "Microwave and Wireless Technology 2004", September 13.-14, 2004, Košice).* Košice: pobočka SES pri FEI TU, 2004. ISBN 80-88922-87-9. p.81-82.
244. KUDELA, K. - DAXNER, P. - DZVONIK, O. - SLIVKA, M. - ŠTETIAROVÁ, J. Datové bázy pre výskum možných vzťahov kozmického počasia a niektorých parametrov výkonnosti a zdravotného stavu leteckého personálu. In *Bulletin: Človek ve svém pozemském a kosmickém prostředí.* Trutnov: EXPRESTISK, 2003. ISBN 80-86303-07-1. p.9-15.
245. KUZNETSOV, S.N. – BOGOMOLOV, A.V. – MYAGKOVA, I.N. – SVERTILOV, S.I. – YUSHKOV, B.Yu. – IGNAT'EV, A.P. – PERTSOV, A.A. – KUDELA, K. Zhestkoe nejtral'noe izluchenie krupnejshih solnechnyh vspyshek v oktyabre-noyabre 2003 goda po dannym eksperimenta na ISZ KORONAS-F. In *Sbornik nauchnyh trudov Nauchnoj sessii MIFI-2004 k 100-letiyu P.A.Cherenkova.* Moskva, Tom 7 (2004), p. 26-27. (in russian)

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

### Pozvané prednášky

246. TIMKO, M. - KOPČANSKÝ, P. - KONERACKÁ, M. - RAMCHAND, C.N. - VÉKAS, L. - BICA, D. Application of magnetizable complex systems in biomedicine. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice.* Programme, abstracts. Košice: UPJŠ, 2004. Abstr.113, p.40. Pozvaná prednáška.
247. REIFFERS, M. Point-contact spectroscopy - a method for study of electron-quasiparticle interaction in metalls. In Kobe University, Japonsko, jún 2004. Pozvaná prednáška.
248. SAMUELY, P. - KAČMARČÍK, J. - SZABÓ, P. - RODRIGO, J.G. - SUDEROW, H. - VIEIRA, S. Intrinsic Josephson junctions superconductor based on NbSe<sub>2</sub>. In *4th International Workshop Solid State Surfaces and Interfaces, Smolenice, november 2004.* Pozvaná prednáška.
249. MARCENAT, C. - HOLANOVÁ, Z. - SZABÓ, P. - SAMUELY, P. Anisotropies of the Lower and Upper Critical Fields in Single Crystal MgB<sub>2</sub>. In *4th International Workshop Solid State Surfaces and Interfaces, Smolenice, november 2004.* Pozvaná prednáška.

250. SKYBA, P. Search for a condensed matter analog of the Unruh effect. In *Coslab 2004, Ambleside, Velká Británie*. Pozvaná prednáška.
251. ŠÁNDOR, L. Results on strangeness production for NA57 experiment. In *SQM2004: 8th International Conference on Strangeness in Quark Matter, 15-20 September 2004, Cape Town, South Africa*. Invited plenary talk. Submitted to J. Phys. G
252. KUDELA, K. - BOBIK, P. Long term variations of cutoff rigidity. In *1st International Symposium on Space Climate: Direct and Indirect Observations of Long-Term Solar Activity, 20-23 June, 2004 (Sommer solstice), Oulu, Finland*. Invited talk.
253. KUDELA, K. - STORINI, M. Useful tools for Space Weather issues from cosmic ray continuous records. In *COSPAR 2004: 35th COSPAR Sci. Assembly, Paris, France, July 18-25, 2004*. PO151, D1.3/E2.4-0054-04. Invited talk. Solicited.
254. NEMCHIK, J. Energy loss of parton propagating through nuclear matter. In *International Workshop "Creation and Flow of Baryons in Hadronic and Nuclear Collisions", 3-7 May 2004, ECT, Trento, Italy*. Invited talk.

## Prednášky, poster, abstrakty

255. BAŤKO, I. *Calorimetric Tunneling Spectroscopy Below 1 K*. In *Berliner Tieftemperatur - Kolloquium, 3.3.2004, Berlin*. Prednáška.
256. TIMKO, M. - ZENTKOVÁ, M. - KOPČANSKÝ, P. - KOVÁČ, J. Magnetic properties of nanomaterials (nanocrystalline materials, molecular magnets, magnetic nanoparticles). In *Nanotechnologie vo výskume a v praxi. Zborník abstraktov z konferencie o spolupráci medzi SAV a MAV v oblasti nanotechnológií, Bratislava, 13.marec 2004*. Prednáška.
257. ŠEFČÍKOVÁ, M. - ZMORAYOVÁ, K. - DIKO, P. - BABU, H. - CARDWELL, D. Microstructure characterisation of YBCO bulk superconductors with complex alloying. In *METALLOGRAPHY 2004: 12th International Symposium on Metallography, 28<sup>th</sup>-30<sup>th</sup> April, 2004, Academia Congress Centre, Stará Lesná, High Tatra Mountains, Slovak Republic*. Poster.
258. DIKO, P. Cracking in TSMG YBCO Superconductors. In *METALLOGRAPHY 2004: 12th International Symposium on Metallography, 28<sup>th</sup>-30<sup>th</sup> April, 2004, Academia Congress Centre, Stará Lesná, High Tatra Mountains, Slovak Republic*. Prednáška.
259. ŠEFČÍKOVÁ, M. - ZMORAYOVÁ, K. - DIKO, P. - BABU, H. - CARDWELL, D. Microstructure characterisation of YBCO bulk superconductors with complex alloying. In *METALLOGRAPHY 2004: 12th International Symposium on Metallography, 28<sup>th</sup>-30<sup>th</sup> April, 2004, Academia Congress Centre, Stará Lesná, High Tatra Mountains, Slovak Republic*. Poster.
260. ZMORAYOVÁ, K. - ŠEFČÍKOVÁ, M. - DIKO, P. - BABU, H. - CARDWELL, D. The microstructural characterisation of YBCO bulk superconductors with depleted uranium addition. In *METALLOGRAPHY 2004: 12th International Symposium on Metallography, 28<sup>th</sup>-30<sup>th</sup> April, 2004, Academia Congress Centre, Stará Lesná, High Tatra Mountains, Slovak Republic*. Poster.
261. ZMORAYOVÁ, K. - ŠEFČÍKOVÁ, M. - DIKO, P. - BABU, H. - CARDWELL, D. The microstructural characterisation of YBCO bulk superconductors with depleted

- uranium addition. In *METALLOGRAPHY 2004: 12th International Symposium on Metallography, 28<sup>th</sup>-30<sup>th</sup> April, 2004, Academia Congress Centre, Stará Lesná, High Tatra Mountains, Slovak Republic*. Prednáška.
262. KONERACKÁ, M. - KOPČANSKÝ, P. - SOSA, P. - TIMKO, M. Interliposomal Transfer of Crystal Violet Dye from DPPC Liposomes to Magnetoliposomes. In 5th International Conference on the Scientific and Clinical Applications of Magnetic Carriers, May 20-22, 2004, Lyon, France. Poster. p.181. - v tlači JMMM
  263. SIEMENSMEYER, K. - BAŤKO, I. - CZOPNIK, A. - FLACHBART, K. - GABÁNI, S. - MAŤAŠ, S. - MEISSNER, M. - PADERNO, Y. - SHITSEVALVA, N. Intricate magnetic properties of some rare earth dodecaborides. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice*. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.17, p.34.
  264. TIMKO, M. - KOPČANSKÝ, P. - KONERACKÁ, M. - RAMCHAND, C.N. - VÉKAS, L. - BICA, D. *Application of magnetizable complex systems in biomedicine*. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice*. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.113, p.40.
  265. MIGLIERINI, M. - KAŇUCH, T. - KRENICKÝ, T. - ŠKORVÁNEK, I. Magnetic and Mössbauer study of Fe<sub>76</sub>Mo<sub>8</sub>Cu<sub>1</sub>B<sub>15</sub> nanocrystalline alloy. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice*. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.201, p.44.
  266. LOVAS, A. - KOVÁČ, J. - BÁN, K. New effects in the Curie point relaxation of Fe-based metallic glasses. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice*. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.207, p.50.
  267. MIHALIK, M. - VEJPRAVOVÁ, J. - RUSZ, J. - MIHALIK, M. - SVOBODA, P. - DIVIŠ, M. - SECHOVSKÝ, V. Magnetic properties of selected RFe<sub>2</sub>Si<sub>2</sub> compounds. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice*. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.402, p.53.
  268. TOLINSKI, T. - KOWALCZYK, A. - IVANOV, V. - CHELKOWSKA, G. - TIMKO, M. Mixed-valence and kondo effect in CeNi<sub>4</sub>X(X=B,Al,Ga) In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice*. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.403 p.54.
  269. DIKO, P. Oxygenation induced cracking in YBCO bulk superconductors. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice*. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.603, p.63. Prednáška.
  270. SZABÓ, P. - KAČMARČÍK, J. - HOĽANOVÁ, Z. - SAMUELY, P. - KLEIN, T. - MARCENAT, C. - MARCUS, J. - LYARD, L. - RIBEIRO, R.A. - BUŽKO, S. - CANFIELD, P.C. MGB<sub>2</sub> - yesterday, today, tomorrow. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice*. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.604, p.64. Prednáška.
  271. ZENTKOVÁ, M. - MIHALIK, M. - ARNOLD, Z. - BALANDA, M. - KAMARÁD, J. - PODGAJNY, R. - SIEKLUCKA, B. High pressure effect on ferromagnetic ordering in layered copper octacyanotungstate. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak*

- Conference on Magnetism, July 12.-15., 2004, Košice. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.702, p.70.*
272. KOPČANSKÝ, P. - POTOČOVÁ, I. - TIMKO, M. - KONERACKÁ, M. - JANSEN, A.M.G. - JADZYN, J. - CZECHOWSKI, G. The characterization of the anchoring of nematic molecules on magnetic particles in ferronematics. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.802, p.76. Prednáška.*
273. BAŤKO, I. - BAŤKOVÁ, M. Calorimetric tunneling spectroscopy as a perspective tool for derivation of energy-spectroscopic information in electrically conductive solids. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.806, p.80. Prednáška.*
274. ŠTERBÁKOVÁ, K. - ZENTKOVÁ, A. - ZENTKO, A. The Barkhausen effect and the anomalous remagnetization losses in metallic ferromagnets. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Programme, abstracts. Košice: UPJŠ, 2004. Poster 1P8, p.88. Poster.*
275. OLEKŠÁKOVÁ, D. - FÜZER, J. - KOLLÁR, P. - KOVÁČ, J. - POLANSKI, K. - BRIANČIN, J. - KONČ, M. - ŠVEC, T. Structure and magnetic properties of Fe-Ni powder alloys. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.2P1, p.89. Poster.*
276. CSACH, K. - MIŠKUF, J. - JURÍKOVÁ, A. - OCELÍK, V. Creep of FINEMET ribbons during crystallisation. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.2P4, p.92.*
277. VOJTANÍK, P. - ANDREJCO, R. - VARGA, R. - KOVÁČ, J. - CSACH, K. - LOVAS, A. Magnetic and structural properties of amorphous Co-Cr-Si-B alloys. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.2P8, p.96. Poster.*
278. BALÁŽ, P. - ŠKORVÁNEK, I. - ZIANG, J.Z. - KOVÁČ, J. - GODOČÍKOVÁ, E. - ALÁČOVÁ, A. Study of magnetic properties by pyrite -> troilite transformation via high energy milling. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.2P10, p.98. Poster.*
279. BÁRDOS, A. - KOVÁČ, J. - JANOVSZKY, D. - LOVAS, A. The influence of thermal history on the thermomagnetic and thermal properties of Fe based bulk glasses. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.2P11, p.99. Poster.*
280. JURÍKOVÁ, A. - CSACH, K. - MIŠKUF, J. - OCELÍK, V. Creep deformation of metallic glass Fe-Ni-B after longtime loading. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.2P12, p.100.*
281. MIŠKUF, J. - CSACH, K. - OCELÍK, V. - TABACHNIKOVA, E.D. - BENGUS, V.Z. - POPEL, P.S. - SIDOROV, V.E. Influence of thermal treatment of Ni-P melt on the structure amorphous alloys. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on*



- Magnetism, July 12.-15., 2004, Košice*. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.2P13, p.101.
282. BÁN, K. - KOVÁČ, J. - LOVAS, A. Cryogenic effects in the amorphous Curie temperature shift of Fe-based glassy alloys. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice*. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.2P15, p.103. Poster.
283. KOVALÁKOVÁ, M. - LOVAS, A. - NOVÁK, L. - KOVÁČ, J. The study of influence of chromium admixture on hydrogenation and dehydrogenation of FeB amorphous ribbons. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice*. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.2P18, p.106. Poster.
284. KRENICKÝ, T. - MARCIN, J. - ŠVEC, P. - ŠKORVÁNEK, I. Magnetic properties of FeCoNbB nanocrystalline alloys heat treated under applied magnetic field. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice*. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.2P27, p.115. Poster.
285. ŠKORVÁNEK, I. - KOVÁČ, J. Magnetocaloric behaviour in amorphous and nanocrystalline FeNbB soft magnetic alloys. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice*. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.2P28, p.116. Poster.
286. BALÁŽ, P. - ŠKORVÁNEK, I. - JIANG, J.Z. - KOVÁČ, J. - GODOČÍKOVÁ, E. Properties of nanocrystalline magnetic pyrrhotite prepared by high-energy milling. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice*. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.2P32, p.120. Poster.
287. DUDÁŠ, J. - GABÁNI, S. - GOSCIANSKA, I. - GUZAN, M. - KAVEČANSKÝ, V. - KONČ, M. - FLACHBART, K. Electric charge transport anomalies in holmium and thulium thin films at low temperatures. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice*. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.3P14, p.134.
288. MIHALIK, M. - KAVEČANSKÝ, V. - WOCHOWSKI, K. - TROC, R. - ROGL, P. Magnetic properties of  $(U_{1-x}Th_x)_3Al_2M_3$  compounds. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice*. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.4P2, p.141. Poster.
289. HUDÁKOVÁ, N. - FARKAŠOVSKÝ, P. - FLACHBART, K. - PADERNO, Y. - SHITSEVALOVA, N. The temperature dependence of the infrared properties of SmB<sub>6</sub>. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice*. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.4P14, p.153. Poster.
290. SZLAFEREK, A. - ANDRZEJEWSKI, B. - KOWALCZYK, A. - TIMKO, M. - KOVÁČ, J. - BRIANČIN, J. Effect of mechanical alloying on the structural and magnetic properties of DyNi<sub>4</sub>Al compound. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice*. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.4P25, p.164. Poster.
291. PRISTÁŠ, G. - RADULEV, I. - REIFFERS, M. - GABÁNI, S. - FLACHBART, K. - SIEMENSMEYER, K. - PADERNO, Yu.B. - SHICEVALOVA, N. Electron-quasiparticle interaction in HoB<sub>12</sub>. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference*

- on Magnetism, July 12.-15., 2004, Košice. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.4P26, p.165.
292. PEKALA, M. - DROZD, V. - KOVÁČ, J. - ŠKORVÁNEK, I. Magnetic and transport characterisation of  $\text{La}_{1-x}\text{RE}_x\text{Ca}_{0.25}\text{MnO}_3$  manganites. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice*. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.5P1, p.168. Poster.
  293. FARKAŠOVSKÝ, P. Ferromagnetism in the Hubbard model with long-range and correlated hopping. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice*. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.5P5, p.172.
  294. ČENČARIKOVÁ, H. - FARKAŠOVSKÝ, P. Thermodynamics of the Falicov-Kimball model in the weak coupling limit. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice*. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.5P6, p.173.
  295. HOĽANOVÁ, Z. - SZABÓ, P. - SAMUELY, P. - RIBEIRO, R.A. - BUĐKO, S.L. - CANFIELD, P.C. Carbon substitution effect on superconducting energy gaps in  $\text{MgB}_2$ . In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice*. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.6P1, p.177.
  296. HOĽANOVÁ, Z. - DELA ROCCA, M.L. - SZABÓ, P. - KAČMARČÍK, J. - SAMUELY, P. Point-contact spectroscopy on Nb/CuMn superconductor/spin-glass bilayers. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice*. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.6P2, p.178.
  297. ZMORAYOVÁ, K. - ŠEFČÍKOVÁ, M. - DIKO, P. - BABU, H. - CARDWELL, D. New pinning centres in YBCO bulk superconductors with depleted uranium addition. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice*. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.6P3, p.179. poster.
  298. ŠEFČÍKOVÁ, M. - ZMORAYOVÁ, K. - DIKO, P. - BABU, H. - CARDWELL, D. Nanosized pinning centers in YBCO bulk superconductors with complex alloying. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice*. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.6P4, p.180. Poster.
  299. BUNDA, V. - BUNDA, S. - KOVÁČ, J. Coexisting of the magnetic ordering and superconductivity in a iodine doped Bismuth-2234 HTSC. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice*. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.6P5, p.181. Poster.
  300. KAČMARČÍK, J. - SZABÓ, P. - SAMUELY, P. - RODRIGO, J.G. - SUDEROW, H. - VIEIRA, S. - LAFOND, A. - MEERSCHAUT, A. Scanning tunneling microscopy and spectroscopy of  $(\text{LaSe})_{1.14}(\text{NbSe}_2)$  at very low temperatures and in magnetic field. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice*. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.6P8, p.184.
  301. SENDEK, M. - ZENTKO, A. - MIHALIK, M. - ZENTKOVÁ, M. - MITRÓOVÁ, Z. - BOKOR, M. - KAVEČANSKÝ, V. - MARYŠKO, M. Magnetic properties and  $^1\text{H}$  NMR study of  $\text{TM}^{2+}_2[\text{Mo}^{\text{IV}}(\text{CN})_8]\cdot 5\text{H}_2\text{O}$ . In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice*. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.7P3, p.193. Poster.

302. MITRÓOVÁ, Z. - MIHALIK, M. - MIHALIK, M. - VEJPRAVOVÁ, J.A. - KISS, L.F. - ZENTKO, A. - LUKÁČOVÁ, M. Magnetic properties and heat capacity of selected  $\text{Ln}[\text{Fe}(\text{CN})_6].n\text{H}_2\text{O}$  compounds. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice*. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.7P5, p.195.
303. KAVEČANSKÝ, V. - MAŤAŠ, S. - LUKÁČOVÁ, M. - MITRÓOVÁ, Z. - MIHALIK, M. Neutron diffraction study of crystal structure and magnetic ordering in rare-earth ferricyanides. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice*. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.7P8, p.198.
304. LUKÁČOVÁ, M. - MIHALIK, M. - KAMARÁD, J. - MITRÓOVÁ, Z. - ARNOLD, Z. - ZENTKOVÁ, M. Effect of pressure on magnetic properties of vanadium hexacyanochromate. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice*. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.7P13, p.203. Poster.
305. SKUMIEL, A. - JÓZEFČZAK, A. - TIMKO, M. - KOPČANSKÝ, P. - KONERACKÁ, M. The effect of a magnetic field on the absorption coefficient of ultrasonic wave in biocompatible ferrofluid. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice*. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.8P14, p.223. Poster.
306. TUREK, I. - ŠTELINA, J. - MUSIL, C. - BRACINÍK, J. - KOPČANSKÝ, P. - HNATIC, M. - POTOČOVÁ, I. - TIMKO, M. - REPAŠAN, M. - BUŠA, J. Light induced structuralization in magnetic fluids with negative soret constant. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice*. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.8P16, p.225.
307. KOPČANSKÝ, P. - MARTON, K. - TOMČO, L. - KONERACKÁ, M. - TIMKO, M. - POTOČOVÁ, I. Study of the dielectric breakdown strength of magnetic fluids based on transformer oil. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice*. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.8P17, p.226.
308. GABÁNI, S. - PIETRIKOVÁ, A. - VARGA, J. - PAVLÍK, V. - FLACHBART, K.  $\text{RuO}_2$ -based low temperature sensors with "tuned" resistivity dependencies. In *CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice*. Programme, abstracts. Košice: UPJŠ, 2004. Abstr.8P18, p.227.
309. ZENTKOVÁ, M. - MIHALIK, M. - KAMARÁD, J. - BALANDA, M. - ARNOLD, Z. - PODGAJNY, R. - SIEKLUCKA, B. High pressure effect on ferromagnetic ordering in layered copper octacyanotungstate. In *CMD: 20th General Conference Condensed Matter Division EPS, Prague, July 19-23, 2004*. Book of abstracts. Praha: UK, 2004. abstr.S2X21, p.106.
310. BAŤKO, I. - BAŤKOVÁ, M. Utilisation of calorimetric tunnelling experiments in condensed matter physics. In *CMD: 20th General Conference Condensed Matter Division EPS, Prague, July 19-23, 2004*. Book of abstracts. Praha: UK, 2004. poster S4Z205, p.275. Poster.
311. KOPČANSKÝ, P. - KONERACKÁ, M. - POTOČOVÁ, I. - TIMKO, M. - MARTON, K. - TOMČO, L. The DC dielectric breakdown strength of magnetic fluids based on transformer oil. In *ICMF10: 10th International Conference on Magnetic Fluids, August 02 - 06, 2004, Guarujá - Sao Paulo, Brazil*. Abstracts. Poster R0089-1, p.266-267.

312. ŠKORVÁNEK, I. - ŠVEC, P. - KRENICKÝ, T. - MARCIN, J. Nanocrystalline hitperm alloys with improved soft magnetic properties at elevated temperatures. In *Joint European Magnetic Symposia, 5-10 September 2004, Dresden, Germany*. SM-ORAL-390, 03. Prednáška.
313. KRENICKÝ, T. - MARCIN, J. - ŠVEC, P. - GELING, R. - ŠKORVÁNEK, I. Magnetic and mechanical properties of amorphous and nanocrystalline FeCoNbB alloys. In *Joint European Magnetic Symposia, 5-10 September 2004, Dresden, Germany*. SM-poster-435, FO/45.
314. DIKO, P. - KRAČUNOVSKÁ, S. - BIERLICH, J. - ZEISBERGER, M. - GRANADOS, X. - GAWALEK, W. Microstructure of TSMG YBCO bulks with holes. In *Effort Meeting, Stará Lesná, 10-12 September 2004*. Prednáška.
315. KRAČUNOVSKÁ, S. - DIKO, P. - LITZKENDORF, D. - HABISREUTHER, T. - BIERLICH, J. - GAWALEK, W. Oxygenation and cracking in melt-textured YBCO bulk superconductors. In *Effort Meeting, Stará Lesná, 10-12 September 2004*. Prednáška.
316. MARTON, K. - TOMČO, L. - KONERACKÁ, M. - KOPČANSKÝ, P. - TIMKO, M. Teoretický rozbor výstavby elektrického výboja v magnetických kvapalinách. In *ELEN 2004: Zborník príspevkov Elektroenergetika, 21.-22.9.2004, Praha, ČR*.
317. KAČMARČÍK, J. - SZABÓ, P. - SAMUELY, P. - RODRIGO, J.G. - SUDEROW, H. - VIEIRA, S. - LAFOND, A. - MEERSCHAUT, A. Scanning tunneling microscopy and spectroscopy of  $(\text{LaSe})_{1.14}(\text{NbSe}_2)$  at very low temperatures and in magnetic field. In *Workshop Vortex a Pi-shift: Nanostructured Superconductors: From fundamentals to applications, 15.-19.5.2004, Bad Munstereifel, Nemecko*. Poster.
318. SAMUELY, P. - HOLANOVÁ, Z. - SZABÓ, P. - WILKE, H.T. - BUĐKO, S.L. - CANFIELD, P.C. Energy gaps in doped  $\text{MgB}_2$ . In *European Material Research Society Fall Meeting, Varšava, september 2004*. Prednáška.
319. ILKOVIČ, S. - REIFFERS, M. - IDZIKOWSKI, B. - ZORKOVSKÁ, A. - ŠEBEK, J. - MÜLLER, K.H. Asymmetry of point-contact spectra of heterocontacts between Kondo system  $\text{YbCu}_5$  and simple metals. In *14. konferencia slovenských fyzikov, 11.-15.10.2004, Kongresové centrum SAV Smolenice*. Sympoziálna prednáška.
320. PRISTÁŠ, G. - REIFFERS, M. - GABÁNI, S. - FLACHBART, K. - RADULEV, I. - SIEMENSMEYER, K. - PADERNO, Yu. - SHITSEVALOVA, N. Point-contact spectroscopy of  $\text{HoB}_{12}$ . In *14. konferencia slovenských fyzikov, 11.-15.10.2004, Kongresové centrum SAV Smolenice*. Sympoziálna prednáška.
321. 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 Kapton/Aerogel and Superfluid  $^3\text{He}$  in the Low Temperature Limit. In *QFS 2004: Trento, Taliansko*. Poster. V tlači J.Low.Temp.Phys.
322. FISHER, S. - GUÉMAULT, 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 *QFS 2004: Trento, Taliansko*. Poster. V tlači J.Low.Temp.Phys.
323. BRADLEY, D.I. - FISHER, S.N. - GUÉNAULT, A.M. - MATTHEWS, C.J. - SKYBA, P. - PICKETT, G.R. - ZAKI, K.I. The Thermal Low Temperatures. In *QFS 2004: Trento, Taliansko*. Poster. V tlači J.Low.Temp.Phys.

324. JURÍKOVÁ, A. - CSACH, K. - MIŠKUF, J. - OCELÍK, V. Structural relaxation of metallic glass after longtime loading. METALLOGRAPHY 2004: 12th International Symposium on Metallography, 28<sup>th</sup>-30<sup>th</sup> April, 2004, Academia Congress Centre, Stará Lesná, High Tatra Mountains, Slovak Republic. Poster P-39.
325. MIŠKUF, J. - CSACH, K. - JURÍKOVÁ, A. - OCELÍK, V. - BENGUS, V.Z. - TABACHNIKOVA, E.D. Analysis of opposite shear fracture surfaces. METALLOGRAPHY 2004: 12th International Symposium on Metallography, 28<sup>th</sup>-30<sup>th</sup> April 2004, Academia Congress Centre, Stará Lesná, High Tatra Mountains, Slovak Republic. Poster P-44.
326. CSACH, K. - MIŠKUF, J. - OCELÍK, V. - BENGUS, V.Z. - TABACHNIKOVA, E.D. - NATSIK, V.D. - STOLYAROV, V.V. - VALIEV, R.Z. Low temperature failure of bulk nanostructured titanium processed by ECAP. METALLOGRAPHY 2004: 12th International Symposium on Metallography, 28<sup>th</sup>-30<sup>th</sup> April 2004, Academia Congress Centre, Stará Lesná, High Tatra Mountains, Slovak Republic. Poster P-49.
327. TABACHNIKOVA, E.D. - BENGUS, V.Z. - NATSIK, V.D. - CSACH, K. - MIŠKUF, J. - STOLYAROV, V.V. - VALIEV, R.Z. Low temperature mechanical properties of bulk nanostructured titanium processed by severe plastic deformation. In *IPMM 2003: 4<sup>th</sup> International Conference: Intelligent Processing and Manufacturing of Materials, 18-23 may 2003, Sendai, Japan*. Session B14. poster B14-3.
328. TABACHNIKOVA, E.D. - BENGUS, V.Z. - NATSIK, V.D. - MACHT, M. - MIŠKUF, J. - CSACH, K. Low Temperature Plastic Deformation Instabilities in Zr<sub>46.8</sub>Ti<sub>8.2</sub>Cu<sub>7.5</sub>Ni<sub>10</sub>Be<sub>27.5</sub>. Bulk Amorphous Alloy. In *ISMANAM 2003: 10<sup>th</sup> International Symposium on Metastable, Mechanically Alloyed and Nanocrystalline Materials, August 24-28, 2003, Foz do Iguacu - Brazil*. Poster P3-7.
329. DUDÁŠ, J. - KAVEČANSKÝ, V. - GOSČIANSKA, I. - GABÁNI, S. - GUZAN, M. Influence of Magnetic Structure on Electric Charge Transport in Thin Films of Holmium and Dysprosium. In *Magnetic Measurements 2004, Prague, June 30 - July 2, 2004*. Book of abstracts. Session 1 (Oral presentations). Praha: CTU, 2004. ISBN 80-01-02994-8. p.11-12. Prednáška.
330. BENGUS, V.Z. - TABAČNIKOVA, E.D. - SMIRNOV, S.N. - CSACH, K. - MIŠKUF, J. - GUNDEROV, D.V. - STOLJAROV, V.V. - VALIEV, R.Z. Plastičnost i razrušenije nanostrukturnogo titana pri rastjaženiji pri 300-4,2 K. In *NANSIS 2004: Nanorozmirni sistemi elektronna, atomna budova i vlastnosti, 12-14 oktjabrja 2004, Kijev, Ukrajina. Kijev: Nacional'naja akademija nauk Ukrajini, 2004*. Programma konferenciji. Poster C5-30, p.203.
331. BENGUS, V.Z. - TABAČNIKOVA, E.D. - SMIRNOV, S.N. - CSACH, K. - MIŠKUF, J. - GUNDEROV, D.V. - STOLJAROV, V.V. - VALIEV, R.Z. Deformacija i razrušenije pri sžatiji nanostrukturnogo splava TI-6AL-4V pri 300-4,2 K. In *NANSIS 2004: Nanorozmirni sistemi elektronna, atomna budova i vlastnosti, 12-14 oktjabrja 2004, Kijev, Ukrajina. Kijev: Nacional'naja akademija nauk Ukrajini, 2004*. Programma konferenciji. Poster C5-31, p.204.
332. \*\* WESSELS, M. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) General Search for New Phenomena in ep Scattering at HERA. In *HEP 2003: Talk given at International Europhysics Conference on High-Energy Physics, Aachen, Germany, 17-23 Jul, 2003*. hep-ex/0402016
333. \*\* ŠÁNDOR, L. for the NA57 Collaboration (ANTINORI, F. -...- BOMBARA, M. -...- JUSKO, A. -...- KRÁLIK, I. -...- PASTIRČÁK, B. -...- ŠAFARIK, K. -...- ŠÁNDOR,

- L. -...-) Results on hyperon production from the NA57 experiment. In *RHIC SCHOOL 2003: 3rd Winter School on Heavy Ion Physics, December 8-11, 2003, Budapest, Hungary*. nucl-ex/0404030 - v tlači Acta Phys.Hung. A - Heavy Ion Physics, 19/1 (2004)
334. (\*\* BRUNO, G.E. -...- ŠÁNDOR, L. -...-) New results from the NA57 experiment. In *QM 2004: 17th International Conference on Ultrarelativistic Nucleus Nucleus Collisions: Quark Matter 2004, 17th International Conference On Ultra Relativistic Nucleus-Nucleus Collisions (Quark Matter 2004), 11-17 Jan 2004, Oakland, California, USA*. - v tlači J.Phys.G: Nucl.Part.Phys.
335. (\*\* ELIA, D. -...- ŠÁNDOR, L. -...-) Energy dependence of  $K^0$  and hyperon production at the CERN SPS. In *QM 2004: 17th International Conference on Ultrarelativistic NucleusNucleus Collisions: Quark Matter 2004, 17th International Conference On Ultra Relativistic Nucleus-Nucleus Collisions (Quark Matter 2004), 11-17 Jan 2004, Oakland, California, USA*. - v tlači J.Phys.G: Nucl.Part.Phys.
336. (\*\* MANZARI, V. -...- ŠÁNDOR, L. -...-) The silicon pixel detector (SPD) for the ALICE experiment. In *QM 2004: 17th International Conference on Ultrarelativistic NucleusNucleus Collisions: Quark Matter 2004, 17th International Conference On Ultra Relativistic Nucleus-Nucleus Collisions (Quark Matter 2004), 11-17 Jan 2004, Oakland, California, USA*. - v tlači J.Phys.G: Nucl.Part.Phys.
337. \*\* PÖSCHL, R. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Jets in Deep-Inelastic Scattering at HERA and determinations of  $\alpha_s^*$ . In *LL WI 2004: Proceedings of talk given at the Lake Louise Winter Institute 2004 On Fundamental Interactions, 15-21 Feb 2004, Lake Louise, Alberta, Canada*. Talk given. hep-ex/0406030
338. \*\* BARBI, M. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Hadron Spectroscopy at HERA. In *LLWI 2004: Proceedings of the Lake Louise Winter Institute, Alberta, Canada, 15-21 February, 2004*. hep-ex/0407006
339. \*\* LIPKA, K. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Charm production in ep interaction at HERA an evidence for a narrow anti-charmed baryon state at H1. In *39th Rencontres de Moriond (QCD and High Energy Hadronic Interactions), La Thuile, Aosta Valley, Italy, March 28 - April 4, 2004*. hep-ex/0405051
340. \*\* MELLADO, B. for ATLAS Collaboration (-...- BÁN, J. -...- BRUNCKO, D. -...- CHYTRÁČEK, R. -...- JUSKO, A. -...- KLADIVA, E. -...- STRÍŽENEC, P. -...-) Prospects for Higgs Searches via VBF at the LHC with Atlas. In *39th Rencontres de Moriond (QCD and High Energy Hadronic Interactions), La Thuile, Aosta Valley, Italy, March 28 - April 4, 2004*. hep-ex/0405043
341. \*\* MELZER-PELLMANN, I.A. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) H1 and ZEUS Results on Beauty Production. In *Contribution to the proceedings of the 39th Rencontres de Moriond (QCD and High Energy Hadronic Interactions), March 28 - April 4, 2004, La Thuile, Italy*. hep-ex/0405023
342. \*\* TRICOMI, A. for ATLAS, CMS Collaboration (-...- BÁN, J. -...- BRUNCKO, D. -...- CHYTRÁČEK, R. -...- JUSKO, A. -...- KLADIVA, E. -...- STRÍŽENEC, P. -...-) Sparticle Reconstruction at LHC. In *39th Rencontres de Moriond (QCD and High Energy Hadronic Interactions), La Thuile, Aosta Valley, Italy, March 28 - April 4, 2004*. hep-ex/0406020

343. \*\* VIRGILI, T. for NA57 Collaboration (ANTINORI, F. -...- BOMBARA, M. -...- JUSKO, A. -...- KRÁLIK, I. -...- PASTIRČÁK, B. -...- ŠAFARIK, K. -...- ŠÁNDOR, L. -...-) Recent results from NA57 on strangeness production in p-A and Pb-Pb collisions at 40 and 158 A GeV/c. In *Proceedings of the 39th Rencontres de Moriond (QCD and High Energy Hadronic Interactions), La Thuile, Aosta Valley, Italy, March 28 - April 4, 2004*. e-print archive: hep-ex/0405052
344. \*\* BRANDT, G. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Isolated tau events with missing pt at HERA. In *DIS 2004: 12th International Workshop on Deep inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004*. Session: Electroweak and BSM. Prednáška.
345. \*\* FAVART, L. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Deeply Virtual Compton Scattering at HERA. In *DIS 2004: 12th International Workshop on Deep inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004*. Session: Diffraction. Prednáška. hep-ex/0407019
346. \*\* GOERLICH, L. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Forward  $\pi^0$  production in DIS. In *DIS 2004: 12th International Workshop on Deep inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004*. Session: Hadronic final states. Prednáška.
347. \*\* HENSHAW, O. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) First inclusive measurements with polarised positron beams at HERA. In *DIS 2004: 12th International Workshop on Deep inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004*. Session: Electroweak and BSM. Prednáška.
348. \*\* JANNSEN, X. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Status of the Very Forward Proton Spectrometer. In *DIS 2004: 12th International Workshop on Deep inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004*. Session: Diffraction. Prednáška.
349. \*\* KAPUSHIN, M. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-)  $F^2_D$  measurements at low, intermediate and high  $Q^2$ . In *DIS 2004: 12th International Workshop on Deep inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004*. Session: Diffraction. Prednáška.
350. \*\* KNUTSSON, A. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Studies of forward jet production in DIS. In *DIS 2004: 12th International Workshop on Deep inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004*. Session: Hadronic final states. Prednáška.
351. \*\* LAYCOCK, P. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) H1 measurements of diffractive  $D^*$  production. In *DIS 2004: 12th International Workshop on Deep inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004*. Session: Heavy flavours. Prednáška.
352. \*\* LOBODZINSKA, E. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Measurement of  $F_2$  at low  $Q^2$  in QED Compton scattering at HERA. In *DIS 2004: 12th International Workshop on Deep inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004*. Session: Structure functions and low x physics. Prednáška.
353. \*\* MALDEN, N. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Search for superlight gravitinos at HERA. In *DIS 2004: 12th International Workshop on Deep inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004*. Session: Electroweak and BSM. Prednáška.

354. \*\* MEYER, A. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Beauty in DIS. In *DIS 2004: 12th International Workshop on Deep inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004*. Session: Heavy flavours. Prednáška.
355. \*\* OLSSON, J. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) High  $|t|$  photon production and  $J/\psi$  production at high  $|t|$ . In *DIS 2004: 12th International Workshop on Deep inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004*. Session: Diffraction. Prednáška.
356. \*\* PEEZ, M. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) General search for new phenomena. In *DIS 2004: 12th International Workshop on Deep inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004*. Session: Electroweak and BSM. Prednáška.
357. \*\* PETRUKHIN, A. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Measurement of  $F_2$  at low  $Q^2$  and extension to the lowest  $Q^2$  using ISR events. In *DIS 2004: 12th International Workshop on Deep inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004*. Session: Structure functions and low x physics. Prednáška.
358. \*\* POESCHL, R. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Inclusive dijet production at low Bjorken-x in DIS. In *DIS 2004: 12th International Workshop on Deep inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004*. Session: Hadronic final states. Prednáška.
359. \*\*\* POMPOŠ, A. for CDF and D0 Collaboration (-...- ANTOŠ, J. -...- KURČA, T. -...-) Other Particle Searches at the Tevatron. In *DIS 2004: Proceedings of the 12th International Workshop on Deep inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004*. hep-ex/0408004
360. \*\* PORTHEAULT, B. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) H1 QCD analysis of inclusive cross-section data. In *DIS 2004: 12th International Workshop on Deep inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004*. Session: Structure functions and low x physics. Prednáška.
361. \*\* SAUVAN, E. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) H1 events with several high  $p_T$  leptons. In *DIS 2004: 12th International Workshop on Deep inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004*. Session: Electroweak and BSM. Prednáška.
362. \*\* SAUVAN, E. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Neutral and charged current cross sections at high  $Q^2$  in collisions of longitudinally polarised positrons with protons at HERA. In *DIS 2004: 12th International Workshop on Deep inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004*. Session: Structure functions and low x physics. Prednáška.
363. \*\* SEDLAK, K. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Measurement of Dijet Production at Low  $Q^2$  at HERA. In *DIS 2004: 12th International Workshop on Deep inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004*. Session: Hadronic final states. Prednáška. hep-ex/0409044
364. \*\* SCHÄTZEL, S. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Comparison of diffractive final states with LO and NLO QCD predictions. In *DIS 2004: Proceedings of the 12th International Workshop on Deep Inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004*. Session: Diffraction. hep-ex/0408049



365. \*\* SCHMIDT, S. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Anti-charmed baryon production in ep collisions. In *DIS 2004: 12th International Workshop on Deep inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004*. Session: Heavy flavours. Prednáška.
366. \*\* SLOAN, T. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) The photoproduction of anti-deuterons at HERA. In *DIS 2004: 12th International Workshop on Deep inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004*. Session: Hadronic final states. Prednáška.
367. \*\* SOUTH, D. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) H1 events with high pT leptons and missing pT and anomalous top production at HERA. In *DIS 2004: 12th International Workshop on Deep inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004*. Session: Electroweak and BSM. Prednáška.
368. \*\* THOMPSON, P. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Charm and beauty measurements at high Q<sup>2</sup> using the H1 vertex detector. In *DIS 2004: 12th International Workshop on Deep inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004*. Session: Heavy flavours. Prednáška.
369. \*\* WEST, A. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Searches for squarks with H1 at HERA. In *DIS 2004: 12th International Workshop on Deep inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004*. Session: Electroweak and BSM. Prednáška.
370. \*\* WOLF, R. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Diffractive D\* production. In *DIS 2004: 12th International Workshop on Deep inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004*. Session: Diffraction. Prednáška.
371. \*\* YAN, W. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Event shapes in DIS. In *DIS 2004: 12th International Workshop on Deep inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004*. Session: Hadronic final states. Prednáška.
372. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) The photoproduction of beauty at HERA. In *DIS 2004: 12th International Workshop on Deep inelastic Scattering, Štrbské Pleso, High Tatras, Slovakia, 14-18 April 2004*. Session: Heavy flavours. Prednáška.
373. BRUNCKO, D. Fundamental open questions in particle physics and their impact on cosmology. In *Annual Physics Conferences, 13-14 May 2004, University of Petrosan, Romania*.
374. BRUNCKO, D. Fundamental Open Questions from Particle Physics. In *Annual Physics Conference, Univ. Petrosany, May 13 - 14, 2004, Petrosany*.
375. ŠÁNDOR, L. Status of NA57 data storing at Castor. In *Na57 Collaboration Meeting, Bari, Italy, 8 June 2004*. Prednáška.
376. \*\* HALLER, J. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Searches for SUSY and Exotics at HERA. In *SUSY04: Proceedings of the 12th Conference on Supersymmetry and Unification of Fundamental Interactions, Tsukuba, Japan, 17-23 June 2004*. hep-ex/0409019
377. \*\* MITSOU, V.A. for ATLAS Collaboration (-...- BÁN, J. -...- BRUNCKO, D. -...- CHYTRÁČEK, R. -...- JUSKO, A. -...- KLADIVA, E. -...- STRÍŽENEC, P. -...-) QCD

- studies with ATLAS at the LHC. In *QCD 04: 11th International Conference in Quantum ChromoDynamics, 5-9 Jul 2004, Montpellier, France*. - Submitted to Nucl. Phys. Proc. Suppl
378. \*\* SCHOERNER-SADENIUS, T. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Jets and the hadronic final state at HERA. In *QCD 04: Proceedings of the 11th International Conference in Quantum ChromoDynamics, 5-9 Jul 2004, Montpellier, France*. hep-ex/0410020
379. \*\* BRUNO, G.E. for NA57 Collaboration (ANTINORI, F. -...- BOMBARA, M. -...- JUSKO, A. -...- KRÁLIK, I. -...- PASTIRČÁK, B. -...- ŠAFARÍK, K. -...- ŠÁNDOR, L. -...-) Blast-wave analysis of strange particle  $m_T$  spectra in Pb-Pb collisions at the SPS. In *Hot Quarks 2004 conference, 18-24 July 2004, Taos Valley, New Mexico, USA*. nucl-ex/0410014 - submitted to J.Phys.G.:Nucl.Part.Phys.
380. \*\* ELIA, D. for NA57 Collaboration (ANTINORI, F. -...- 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 *Hot Quarks 2004 conference, 18-24 July 2004, Taos Valley, New Mexico, USA*. nucl-ex/0410034 - submitted to J. Phys. G: Nucl. Part. Phys.
381. \*\* GLASMAN, C. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Jet production at HERA. In *ISMD 2004: Talk given at the 34th International Symposium on Multiparticle Dynamics, Sonoma County, California, USA, July 26 - August 1, 2004*. hep-ex/0410023
382. \*\* CARON, S. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Searches and electroweak measurements at HERA. In *5th Rencontres du Vietnam on Particle Physics and Astrophysics, Hanoi, Vietnam, August 5-11, 2004*. Talk given. hep-ex/0411037
383. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Multi-Electron Production at High Transverse Momenta in ep Collisions at HERA. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004*. Session 4: Electroweak Physics. Prednáška, abstract 4-0147.
384. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Muon Pair Production in ep Collisions at HERA. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004*. Session 4: Electroweak Physics. Prednáška, abstract 4-0148.
385. H1 Collaborationq (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) First Measurement of the  $Q^2$  Dependence of Neutral and Charged Current Cross Sections in Collisions of Longitudinally Polarised Positrons and Unpolarised Protons at  $\sqrt{s} = 319$  GeV. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004*. Session 4: Electroweak Physics. Prednáška, abstract 4-0756.
386. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Measurement of inclusive jet cross sections in photoproduction at HERA. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004*. Session 5: QCD hard interactions. Prednáška, abstract 5-0149.
387. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Measurement and QCD Analysis of Neutral and Charged Current Cross Sections at HERA. In *ICHEP 04: 32nd International Conference on High-Energy Physics,*

- Beijing, China, 16-22 Aug 2004. Session 5: QCD hard interactions. Prednáška, abstract 5-0150.*
388. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEL, J. -...- MURÍN, P. -...-) Inclusive Dijet Production at Low Bjorken-x in Deep Inelastic Scattering. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004. Session 5: QCD hard interactions. Prednáška, abstract 5-0151.*
  389. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEL, J. -...- MURÍN, P. -...-) Measurement of Dijet Production at Low  $Q^2$  at HERA. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004. Session 5: QCD hard interactions. Prednáška, abstract 5-0152.*
  390. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEL, J. -...- MURÍN, P. -...-) Forward  $\pi^0$  Production and Associated Transverse Energy Flow in Deep-Inelastic Scattering at HERA. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004. Session 5: QCD hard interactions. Prednáška, abstract 5-0153.*
  391. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEL, J. -...- MURÍN, P. -...-) Determination of The Longitudinal Proton Structure Function  $F_L$  at low  $Q^2$ . In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004. Session 5: QCD hard interactions. Prednáška, abstract 5-0161.*
  392. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEL, J. -...- MURÍN, P. -...-) Photoproduction of  $D^*$  Mesons at HERA. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004. Session 5: QCD hard interactions. Prednáška, abstract 5-0162.*
  393. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEL, J. -...- MURÍN, P. -...-)  $D^*$  Mesons and Associated Jet Production in Deep Inelastic Scattering. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004. Session 5: QCD hard interactions. Prednáška, abstract 5-0163.*
  394. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEL, J. -...- MURÍN, P. -...-) Measurement of Beauty photoproduction at HERA using semi-muonic decays. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004. Session 5: QCD hard interactions. Prednáška, abstract 5-0164.*
  395. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEL, J. -...- MURÍN, P. -...-) Measurement of Beauty Production in Deep Inelastic Scattering at HERA. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004. Session 5: QCD hard interactions. Prednáška, abstract 5-0165.*
  396. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEL, J. -...- MURÍN, P. -...-) Inclusive D-meson Production in Deep Inelastic Scattering at HERA. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004. Session 5: QCD hard interactions. Prednáška, abstract 5-0166.*
  397. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEL, J. -...- MURÍN, P. -...-) Measurement of charm and beauty production in deep inelastic  $e^+p$  scattering at high  $Q^2$  at HERA. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004. Session 5: QCD hard interactions. Prednáška, abstract 5-0167.*
  398. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEL, J. -...- MURÍN, P. -...-) Two-Jet and Three-Jet Differential Event Shapes in Deep-Inelastic Scattering. In *ICHEP 04:*

- 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004. Session 5: QCD hard interactions. Prednáška, abstract 5-0168.*
399. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCCEL, J. -...- MURÍN, P. -...-) Measurement of prompt photon production in  $\gamma$ -p Interactions. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004. Session 5: QCD hard interactions. Prednáška, abstract 5-0169.*
  400. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCCEL, J. -...- MURÍN, P. -...-) Measurement of the Inclusive DIS Cross Section at Low  $Q^2$  and High  $x$  using Events with Initial State Radiation. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004. Session 5: QCD hard interactions. Prednáška, abstract 5-0170.*
  401. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCCEL, J. -...- MURÍN, P. -...-) Measurement of the Proton Structure Function  $F_2$  at low  $Q^2$  in QED Compton Scattering at HERA. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004. Session 5: QCD hard interactions. Prednáška, abstract 5-0171.*
  402. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCCEL, J. -...- MURÍN, P. -...-) Measurements of Forward Jet Production at low  $x$  in DIS. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004. Session 5: QCD hard interactions. Prednáška, abstract 5-0172.*
  403. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCCEL, J. -...- MURÍN, P. -...-) Dijet Photoproduction at HERA. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004. Session 5: QCD hard interactions. Prednáška, abstract 5-0173.*
  404. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCCEL, J. -...- MURÍN, P. -...-) A measurement of the excess of positive leading particles in deep A measurement of the excess of positive leading particles in deep inelastic events at HERA. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004. Session 5: QCD hard interactions. Prednáška, abstract 5-0174.*
  405. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCCEL, J. -...- MURÍN, P. -...-) Measurement of Double Differential Deep Inelastic Scattering Neutral and Charged Current Cross Sections in Collisions of Longitudinally Polarised Positrons and Unpolarised Protons at  $\sqrt{s} = 319$  GeV. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004. Session 5: QCD hard interactions. Prednáška, abstract 5-0758.*
  406. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCCEL, J. -...- MURÍN, P. -...-) Photoproduction of  $D^*$  Mesons Associated with a Jet at HERA. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004. Session 5: QCD hard interactions. Prednáška, abstract 5-0759.*
  407. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCCEL, J. -...- MURÍN, P. -...-) Measurement of beauty photoproduction at HERA using inclusive lifetime tagging. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004. Session 5: QCD hard interactions. Prednáška, abstract 5-0760.*
  408. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCCEL, J. -...- MURÍN, P. -...-) Scaled Charged Particle Momentum Distributions at High  $Q^2$  at HERA. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004. Session 5: QCD hard interactions. Prednáška, abstract 5-0762.*

409. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCCEL, J. -...- MURÍN, P. -...-) Diffractive Photoproduction of  $J/\psi$  Mesons with Large Momentum Transfer at HERA. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004*. Session 6: QCD soft interactions. Prednáška, abstract 6-0154.
410. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCCEL, J. -...- MURÍN, P. -...-) Measurement of Anti-Deuteron Photoproduction and a Search for Heavy Stable Charged Particles at HERA. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004*. Session 6: QCD soft interactions. Prednáška, abstract 6-0155.
411. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCCEL, J. -...- MURÍN, P. -...-) Measurement of the Inclusive Cross Section for Diffractive Deep Inelastic Scattering at High  $Q^2$ . In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004*. Session 6: QCD soft interactions. Prednáška, abstract 6-0175.
412. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCCEL, J. -...- MURÍN, P. -...-) Comparison at NLO between Predictions from QCD Fits to F2D and Diffractive Final State Observables at HERA. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004*. Session 6: QCD soft interactions. Prednáška, abstract 6-0176.
413. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCCEL, J. -...- MURÍN, P. -...-) Comparison between diffractive dijet electroproduction and photoproduction. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004*. Session 6: QCD soft interactions. Prednáška, abstract 6-0177.
414. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCCEL, J. -...- MURÍN, P. -...-) Diffractive  $D^*$  Meson Production in Deep Inelastic ep Collisions at HERA. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004*. Session 6: QCD soft interactions. Prednáška, abstract 6-0178.
415. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCCEL, J. -...- MURÍN, P. -...-) Energy Flow in Hard Diffractive DIS and Photoproduction. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004*. Session 6: QCD soft interactions. Prednáška, abstract 6-0179.
416. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCCEL, J. -...- MURÍN, P. -...-) Elastic Photoproduction of  $J/\psi$  Mesons at HERA. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004*. Session 6: QCD soft interactions. Prednáška, abstract 6-0180.
417. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCCEL, J. -...- MURÍN, P. -...-) Elastic photoproduction of  $J/\psi$  mesons at high  $W$ . In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004*. Session 6: QCD soft interactions. Prednáška, abstract 6-0181.
418. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCCEL, J. -...- MURÍN, P. -...-) Deeply Virtual Compton Scattering at HERA. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004*. Session 6: QCD soft interactions. Prednáška, abstract 6-0182.
419. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCCEL, J. -...- MURÍN, P. -...-) Diffractive photoproduction of high  $p_t$  photons at HERA. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004*. Session 6: QCD soft interactions. Prednáška, abstract 6-0183.

420. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Measurements of the Inclusive Photoproduction of  $\eta$ ,  $\rho^0$ ,  $f_0(980)$  and  $f_2(1270)$  Mesons at HERA. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004*. Session 6: QCD soft interactions. Prednáška, abstract 6-0184.
421. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Measurement of Dijet Cross Sections for Events with a Leading Neutron in ep Interactions at HERA. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004*. Session 6: QCD soft interactions. Prednáška, abstract 6-0763.
422. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Measurement of the Diffractive Cross Section in Charged Current Interactions at HERA. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004*. Session 6: QCD soft interactions. Prednáška, abstract 6-0821.
423. \*\* MONNIER, E. for the ATLAS Liquid Argon Calorimeter Group. ( ...- BÁN, J. - ...- BRUNCKO, D. -...- KLADIVA, E. - ...- SEMAN, M. -...- STRÍZENEC, P. - ...- ) The ATLAS Liquid Argon Calorimeter: construction, integration, commissioning and performances from selected test beam results. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004*. Session 9: R&D for future accelerator and detector Prednáška, abstract 9-0546.
424. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Evidence for a Narrow Anti-Charmed Baryon State. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004*. Session 10: Hadron spectroscopy and exotics. Prednáška, abstract 10-0156.
425. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) H1 Searches for Exotic Baryon Resonances containing Charm and Strange Quarks. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004*. Session 10: Hadron spectroscopy and exotics. Prednáška, abstract 10-0764.
426. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Isolated electrons and muons in events with missing transverse momentum at HERA. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004*. Session 12: Beyond the standard model. Prednáška, abstract 12-0157.
427. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Search for new physics in  $e^+p \rightarrow q$  contact interactions at HERA. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004*. Session 12: Beyond the standard model. Prednáška, abstract 12-0158.
428. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Search for Single Top Quark Production in ep Collisions at HERA. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004*. Session 12: Beyond the standard model. Prednáška, abstract 12-0159.
429. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Search for Squark Production in R-Parity Violating Supersymmetry at HERA. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004*. Session 12: Beyond the standard model. Prednáška, abstract 12-0160.
430. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) A Direct Search for Magnetic Monopoles at HERA. In *ICHEP 04: 32nd International*

*Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004. Session 12: Beyond the standard model. Prednáška, abstract 12-0185.*

431. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) General Search for New Phenomena in  $ep$  scattering at HERA. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004. Session 12: Beyond the standard model. Prednáška, abstract 12-0186.*
432. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Search for Superlight Gravitinos at HERA. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004. Session 12: Beyond the standard model. Prednáška, abstract 12-0187.*
433. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Search for events with tau leptons in  $ep$  collisions at HERA. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004. Session 12: Beyond the standard model. Prednáška, abstract 12-0188.*
434. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Search for Bosonic Stop Decays in R-Parity Violating Supersymmetry in  $e+q$  Collisions at HERA. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004. Session 12: Beyond the standard model. Prednáška, abstract 12-0189.*
435. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Analysis of High Transverse Momentum Particle Production with HERA-II data. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004. Session 12: Beyond the standard model. Prednáška, abstract 12-0765.*
436. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) A Search for Lepton Flavour Violation in  $e^+p$  Collisions at HERA. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004. Session 12: Beyond the standard model. Prednáška, abstract 12-0766.*
437. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) A Search for Doubly Charged Higgs Bosons at HERA. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004. Session 12: Beyond the standard model. Prednáška, abstract 12-0767.*
438. \*\* ATLAS Collaboration (speaker to be named) (-...- BÁN, J. -...- BRUNCKO, D. -...- CHYTRÁČEK, R. -...- JUSKO, A. -...- KLADIVA, E. -...- STRÍŽENEC, P. -...-) Search for Extra-dimensions with ATLAS at the LHC. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004. Session 12: Beyond the standard model. Prednáška, abstract 12-0852.*
439. \*\* BRACINIK, J. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Jets in Photoproduction and in the Transition Region to DIS at the HERA Collider. In *ICHEP 04: Proceedings of to 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004. hep-ex/0411019*
440. \*\* COPPOLA, N. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Production of vector mesons and measurement of the hadronic component of photon light-cone wave function at HERA. In *ICHEP 04: Proceedings of to 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004. hep-ex/0410057*

441. \*\* SCHÖNING, A. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEL, J. -...- MURÍN, P. -...-) Searches for new Physics at HERA. In *ICHEP 04: 32nd International Conference on High-Energy Physics, Beijing, China, 16-22 Aug 2004*. Talk given. hep-ex/0411080
442. \*\* MARTINEZ, G. for Alice Collaboration (-...- KRIVDA, M. -...- ŠÁNDOR, L. -...-) The Muon Spectrometer of the ALICE experiment. In *NPDC18: 18th Nuclear Physics Division Conference: Phase Transitions in Strongly Interacting Matter, 23-29 Aug 2004, Prague, Czech Republic*. Talk presented. hep-ex/0410061
443. \*\* VAZQUEZ, M. for ZEUS, H1, HERMES and HERA-B Collaboration (-...- BRUNCKO, D. -...- FERENCEL, J. -...- MURÍN, P. -...-) Exotic hadronic states at HERA. In *Proceedings of the International Conference on Hadron Structure 2004, Smolenice Castle, Slovakia, 30 August - 3 September 2004*. hep-ex/0411045
444. (JUSKO, A. -...- ŠÁNDOR, L. -...-) ALICE trigger system. In *Proceedings of 10th Workshop on electronics for LHC and future experiments, 13-17 September 2004, Boston, USA*.
445. \*\* SCHÄTZEL, S. for H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEL, J. -...- MURÍN, P. -...-) H1 Diffractive Structure Function Measurements and QCD Fits. *Diffraction 2004: International Workshop on Diffraction in High -Energy Physics, 18-23 Sept., 2004, Cala Gonone, Sardinia, Italy*. hep-ex/0412044
446. \*\* GLADILIN, L. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEL, J. -...- MURÍN, P. -...-) Spectroscopy and pentaquarks at HERA. In *Proceedings of 6th International Conference on Quark Confinement and the Hadron Spectrum, Villasimius, Sardinia, Italy, 21-25 September 2004*. hep-ex/0412014
447. \*\* MALDEN, N. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEL, J. -...- MURÍN, P. -...-) Neutral and charged current cross section measurements and searches for new physics at HERA. In *HEP-MAD 04: 2nd High-Energy Physics Conference in Madagascar, 27 Sep - 3 Oct 2004, Antananarivo, Madagascar*. hep-ex/0412005
448. \*\*\* GORELOV, I.V. for CDF Collaboration (-...- ANTOŠ, J. -...-) Measurement of Orbitally Excited D-Mesons at CDF II. In *GHP 2004: 1st Meeting of the APS Topical Group on Hadronic Physics, Oct 24-26, 2004, Fermilab, Batavia, Illinois*. Talk given. hep-ex/0412061
449. BUČÍK, R. Spatial and energy-spectral distribution of the secondary low-energy gamma-ray fluxes in the near-Earth's environment. In *The mid-term review of the RTN, IRF, Uppsala, Sweden, 26-27 January 2004*.
450. SABBAH, I. - KUDELA, K. - JASAAR, H.K.AI - RYBANSKÝ, M. Galactic cosmic ray modulation during the last five solar cycles. EGU 1st General Assembly, Nice, 25-30 April, 2004, abstract. In *Geophysical Research Abstracts*. Vol.6, (2004), abstr.01182. Sref-ID: 1607-7962/gra/EGU04-A-01182.
451. ROTHKAEHL, H. - BUČÍK, R. - KUDELA, K. - STANISLAWSKA, I. - ZBYSZINSKI, Z. Plasma ionospheric response of the seismic activity. EGU 1st General Assembly, Nice, 25-30 April, 2004, abstract. In *Geophysical Research Abstracts*. Vol.6, (2004), abstr.02993. SRef-ID: 1607-7962/gra/EGU04-A-02993.
452. KUDELA, K. - SLIVKA, M. Energetic particles near the bow shock: Interball-1 data. EGU 1st General Assembly, Nice, 25-30 April, 2004, abstract. In *Geophysical Research Abstracts*. Vol.6, (2004), abstr.04677. SRef-ID: 1607-7962/gra/EGU04-A-04677.



453. KUDELA, K. - STORINI, M. Can we use cosmic ray continuous records to forecast enhanced geomagnetic activity levels. EGU 1st General Assembly, Nice, 25-30 April, 2004, abstract. In *Geophysical Research Abstracts*. Vol.6, (2004), abstr.07269. Ref-ID: 1607-7962/gra/EGU04-A-07269.
454. MYAGKOVA, I.N. - KUZIN, S.V. - KUZNETSOV, S.N. - KUDELA, K. - YUSHKOV, B.Yu. - BOGOMOLOV, A.V. Observation of flare activity of the Sun in the neutral radiation by apparatus SPIRIT, SPR and SONG (CORONAS F). In *All Russian Astronomical Conference, Moscow, June 3-10, 2004*. abstract.
455. MYAGKOVA, I.N. - KUZNETSOV, S.N. - KUDELA, K. - YUSHKOV, B.Yu. Spectra of accelerated in flares electrons, hard X and gamma rays, observed by SONG instrument. In *All Russian Astronomical Conference, Moscow, June 3-10, 2004*. abstract.
456. MELNIKOV, V.F. - MYAGKOVA, I.N. - REZNIKOVA, V.E. - KUZNETSOV, S.N. - KUDELA, K. Hard X rays, gamma and radiowaves from the solar flare 24.8.200. In *All Russian Astronomical Conference, Moscow, June 3-10, 2004*. abstract.
457. KUDELA, K. - SLIVKA, M. Strong space storms in October-November 2003. In *International Conference on Aerospace Medicine, Košice, June 15-17, 2004*. Prednáška.
458. BUČÍK, R. Cusp plasma waves observations. In *RTN Young Researches meeting 2004, Upsala, Sweden, June 23-25, 2004*. Prednáška.
459. KUZNETSOV, S.N. - KUDELA, K. - MYAGKOVA, I.N. - PODOROLSKY, A.N. - YUSHKOV, B.Yu. Solar energetic particles in October - November, 2003. In *SEE 2003: International Symposium on Solar Extreme Events of 2003, Lomonosov Moscow State University, July 12-14, 2004*. Eds. M.I.Panasyuk, V.V. Kalegaev. Programme and Abstract Book. Moskva: Moscow State U, 2004. abstr. p.32.
460. KUZNETSOV, S.N. - KURT, V.G. - MYAGKOVA, I.N. - KUDELA, K. High energy neutral emissions of large solar flares in the end of October, 2003. In *SEE 2003: International Symposium on Solar Extreme Events of 2003, Lomonosov Moscow State University, July 12-14, 2004*. Eds. M.I.Panasyuk, V.V. Kalegaev. Programme and Abstract Book. Moskva: Moscow State U, 2004. abstr. p.33.
461. KUZNETSOV, S.N. - KUDELA, K. - SLIVKA, M. - LAZUTIN, L.L. - MURAV EVA, E.A. - MYAGKOVA, I.N. - YUSHKOV, B.Yu. Dynamics of the earth's radiation belts during October - November, 2003. In *SEE 2003: International Symposium on Solar Extreme Events of 2003, Lomonosov Moscow State University, July 12-14, 2004*. Eds. M.I.Panasyuk, V.V. Kalegaev. Programme and Abstract Book. Moskva: Moscow State U, 2004. abstr. p.50.
462. KUZNETSOV, S.N. - KUDELA, K. - MYAGKOVA, I.N. - YUSHKOV, B.Yu. Dynamics of SEP penetration boundaries during magnetic storms on October 29-30, 2003. In *SEE 2003: International Symposium on Solar Extreme Events of 2003, Lomonosov Moscow State University, July 12-14, 2004*. Programme and Abstract Book. Moskva: Moscow State U, 2004. abstr. p.71.
463. BUČÍK, R. - BLECKI, J. - CORNILLEAU-WEHRLIN, N. - GUSTAFSSON, G. - GUTHMANN, A. - KLOS, Z. - PARROT, M. Cusp crossing as viewed by Cluster plasma wave measurements. In *COSPAR 2004: 35th COSPAR Sci. Assembly, Paris, France, July 18-25, 2004*. abstract COSPAR04-A-03363.
464. BLECKI, J. - CORNILLEAU-WEHRLIN, N. - PARROT, M. - DECREAU, P. - RAUCH, S. - SAVIN, S. - ROTHKAEHL, H. - BUČÍK, R. - KUDELA, K. -

- WRONOWSKI, R. High energetic electrons and electron cyclotron waves and their harmonics in the polar cusp. In *COSPAR 2004: 35th COSPAR Sci. Assembly, Paris, France, July 18-25, 2004*. abstract COSPAR04-A-02038.
465. PRECH, L. - ŠAFRÁNKOVÁ, J. - NEMECEK, Z. - KUDELA, K. Study of energetic particle anisotropy in weak and strong foreshocks. In *COSPAR 2004: 35th COSPAR Sci. Assembly, Paris, France, July 18-25, 2004*. P0138, D1.3/E2.4-0045-04.
466. STORINI, M. - KUDELA, K. - CORDARO, E.G. Ground level enhancements during solar cycle 23: results from SVIRCO, Lomnický Štít and LARC neutron monitors. In *COSPAR 2004: 35th COSPAR Sci. Assembly, Paris, France, July 18-25, 2004*. PO182, D2.1/C2.2/E3.1-0067-04.
467. KUZNETSOV, S.N. - KUDELA, K. - MYAGKOVA, I.N. - YUSHKOV, B.Yu. High energy neutral emission from the Sun: indications by SONG-M on CORONAS-F. In *COSPAR 2004: 35th COSPAR Sci. Assembly, Paris, France, July 18-25, 2004*. P0223, D2.5/E3.5-0066-04.
468. KECSKEMETY, K. - ERDOS, G. - FACSKO, G. - TATRALLYAI, M. - DANDOURAS, I. - DALY, P. - KUDELA, K. Distributions of suprathermal ions near hot flow anomalies observed by RAPID aboard CLUSTER. In *COSPAR 2004: 35th COSPAR Sci. Assembly, Paris, France, July 18-25, 2004*. D3.1-0011-04
469. KUZNETSOV, S.N. - YUSHKOV, B.Yu. - KUDELA, K. - MURAVEVA, E.A. - MYAGKOVA, I.N. - STAROSTIN, L.I. - LEMAIRE, J. Dynamics of the Radiation Belts during Magnetic Storms of October 29-30, 2003. In *COSPAR 2004: 35th COSPAR Sci. Assembly, Paris, France, July 18-25, 2004*. D3.1-0025-04.
470. MYAGKOVA, I.N. - KUZNETSOV, S.N. - YUSHKOV, B.Yu. - KUDELA, K. High energy neutral emissions observed by the SONG experiment onboard CORONAS-F during some of the large October-November 2003 solar flares. In *COSPAR 2004: 35th COSPAR Sci. Assembly, Paris, France, July 18-25, 2004*. E2.3-0045-04.
471. TROTTET, G. - LUEHTI, T. - MYAGKOVA, I.N. - DAUPHIN, C. - MAGUN, A. - VILMER, N. KUYNETSOV, S.N. - YUSHKOV, B.Y. - KUDELA, K. Centimeter/submillimeter and hard X-ray/gamma-ray observations of the GOES X12.7 flare on 2003 October 28. In *COSPAR 2004: 35th COSPAR Sci. Assembly, Paris, France, July 18-25, 2004*. E2.3-0063-04.
472. SPURNÝ, F. - KUDELA, K. - DACHEV, T. Airplane radiation dose decrease during a strong Forbush decrease. In *COSPAR 2004: 35th COSPAR Sci. Assembly, Paris, France, July 18-25, 2004*. F2.5-0002-04.
473. GRIGORYAN, O. - KUDELA, K. - ROTHKAEHL, H. - SHEVELEVA, V. The electron formation under the radiation belts as L-shells. In *COSPAR 2004:35th COSPAR Sci. Assembly, Paris, France, July 18-25, 2004*. 1.2-1.9, PSRB1/F2.9-0007-04.
474. BUČÍK, R. - KUDELA, K. - KUZNETSOV, S.N. - MYAGKOVA, I.N. - YUSHKOV, B.Yu. Searching for lightning-induced terrestrial gamma-ray bursts on CORONAS-F satellite. In *NATO Advanced Study Institute on Sprites, Elves and Intense Lightning Discharges, Corte, Corsica, July 24-31, 2004*.
475. KUZNETSOV, S.N. - KUDELA, K. - MYAGKOVA, I.N. - YUSHKOV, B.Yu. SONG-M on CORONAS-F: measurements of high energy neutral emissions from the Sun. In *Chapman conference on Solar Energetic Plasmas and Particles, Turku, Finland, August 1 - 6, 2004*.

476. STORINI, M. - KUDELA, K. Neutron monitor data for space weather forecasts potential possibilities and limits. In *19th ECRS, Firenze, Italy, August 30 - September 3, 2004.*
477. MURAKI, Y. - FLUECKIGER, E.O. - BUETIKOFER, R. - CHILINGARIAN, A. - HOVSEPYAN, G. - TAN, Y.H. - YUDA, T. - TSUCHIYA, H. - OHNISHI, S. - KATAYOSE, Y. - MATSUBARA, Y. - SAKO, T. - WATANABE, K. - MASUDA, S. - SAKAI, T. - SHIBATA, S. - OGASAWARA, R. - MIZUMOTO, Y. - NAKAGIRI, M. - MIYASHITA, A. - STOKER, P.H. - LOPATE, C. - KUDELA, K. - GROSS, M. Solar Neutron Events that have been found in Solar Cycle 23. In *19th ECRS, Firenze, Italy, August 30 - September 3, 2004.*
478. KUZNETSOV, S. - KURT, V. - YUSHKOV, B. - MYAGKOVA, I. - KUDELA, K. - BELOV, A. - CAROUBALOS, C. - HILARIS, A. - MAVROMICHALAKI, H. - MUSSAS, X. - PREKA-PAPADEMA, G. October 28, 2003 X10 Flare: High Energy Gamma Emission, Type II Radio Emission and Solar Particle Observations. In *19th ECRS, Firenze, Italy, August 30 - September 3, 2004.*
479. BUČÍK, R. - BLECKI, J. - KUDELA, K. - KUZNETSOV, S.N. - PARROT, M. Searching for TGF. In *RTN Young Research meeting, IFSI, Rome, Italy, 10-12 November 2004.*
480. STORINI, M. - KUDELA, K. Neutron monitor data for space weather forecasts: potential possibilities and limits. In 1<sup>st</sup> European Space Weather Week. In ESTEC, Noordwijk, Holland, 29.11. - 3.12, 2004.
481. HNATICH, M. - JURČIŠINOVÁ, E. - JURČIŠIN, M. - STEHLÍK, M. Influence of anisotropy on anomalous scaling of passive scalar advected by turbulent velocity field with finite correlation time. In *29. Conf. Middle Europ. Cooper. in Statistical Phys., Bratislava, 28.03.-1.04. 2004.*
482. HNATICH, M. - CHKHETIANI, O. - JURČIŠIN, M. - MAZZINO, A. - \*REPAŠAN, M. Anomalous scaling for passive scalar advected by helical random velocity field. In *MECO 209: 29th Conference of the Middle European Cooperation in Statistical Physics, 28 March - 1 April 2004, Bratislava, Slovakia.* Oral contr. O33, p.15. Prednáška.
483. HNATICH, M. - JURČIŠINOVÁ, E. - \*JURČIŠIN, M. - STEHLÍK, M. Influence of anisotropy on anomalous scaling of a passive scalar advected by the turbulent velocity field with finite correlation time. In *MECO 209: 29th Conference of the Middle European Cooperation in Statistical Physics, 28 March - 1 April 2004, Bratislava, Slovakia.* Oral contr. O35, p.16. Prednáška.
484. BUŠA, J. - HNATICH, M. - JURČIŠINOVÁ, E. - JURČIŠIN, M. - STEHLÍK, M. Influence of anisotropy on the scaling regimes in fully developed turbulence. In *Conference on Kolmogorov's Legacy in Physics: One Century of Chaos, Turbulence and Complexity, Trieste, Italy, September 8-17, 2003.* Poster session.
485. HNATICH, M. - JURČIŠIN, M. - ŠPRINC, S. - STEHLÍK, M. Scaling regimes in stochastic MHD. In *Conference on Kolmogorov's Legacy in Physics: One Century of Chaos, Turbulence and Complexity, Trieste, Italy, September 8-17, 2003.* Poster session.
486. HNATICH, M. - JURČIŠIN, M. - REPAŠAN, M. Kraichnan model with synthetic helical velocity field. In *Conference on Kolmogorov's Legacy in Physics: One Century of Chaos, Turbulence and Complexity, Trieste, Italy, September 8-17, 2003.* Poster session.

487. KOPČANSKÝ, P. - TIMKO, M. - KONERACKÁ, M. - POTOČOVÁ, I. - JURÍKOVÁ, A. - TOMČO, L. - TUREK, I. - ŠTELINA, J. - MUSIL, C. *Magnetic fluid research in Košice. In Annual Physics Conferences, 13-14 May 2004, University of Petrosani, Romania.* Prednáška. V tlači *Annals of University of Petrosani*
488. KUPKOVÁ, M. - KUPKA, M. - RUDNAYOVÁ, E. - DUSZA, J. Fractal geometry concepts in the wear process characterization. In *4th International Conference on Fractals and Dynamic Systems in Geoscience, Kloster Seeon, Germany, May 19-22, 2004.* Book of Abstracts. ISBN 3-923561-24-5. p.51-54.
489. KOPČANSKÝ, P. - TIMKO, M. - POTOČOVÁ, I. - KONERACKÁ, M. - JURÍKOVÁ, A. - TOMAŠOVIČOVÁ, N. - ŠTELINA, J. - MUSIL, C. - BRACINÍK, J. The determination of the hydrodynamic size of magnetic carrier systems using FRS experiment. In *5th International Conference on the Scientific and Clinical Applications of Magnetic Carriers, May 20-22, 2004, Lyon, France.* Poster. p.180. V tlači JMMM.
490. KOPČANSKÝ, P. - TOMČO, L. - MARTON, K. - KONERACKÁ, M. - TIMKO, M. - POTOČOVÁ, I. Experimental Study of DC Dielectric Breakdown Strength in Magnetic Fluids. In: *INDUCTICA 2004: 1st International Conference on inductive and electromagnetic components, systems and devices including manufacturing and processing, Berlin, 15-17 June 2004.* Prednáška.
491. KOPČANSKÝ, P. - TOMČO, L. - MARTON, K. - KONERACKÁ, M. - TIMKO, M. - POTOČOVÁ, I. Experimental Study of DC Dielectric Breakdown Strength in Magnetic Fluids. In: *INDUCTICA 2004: Proceedings of the 1st International Conference on inductive and electromagnetic components, systems and devices including manufacturing and processing, Berlin, 15-17 June 2004.* p.49-53. Prednáška.
492. ČENČARIKOVÁ, H. - FARKAŠOVSKÝ, P. Ground states of the two-dimensional Falicov-Kimball model with correlated hopping. In *SCES04: International Conference on strongly correlated electron systems, Karlsruhe, Germany, July 2004.* Poster.
493. POTOČOVÁ, I. - KOPČANSKÝ, P. - TIMKO, M. - KONERACKÁ, M. - JANSEN, L. - JADZYN, J. - CZECHOWSKI, G. The anchoring of nematic molecules on magnetic particles in different ferronematics. In *ILCC 2004: 20th International Liquid Crystal Conference, July 4 - 9, 2004, Ljubljana, Slovenia.* Ljubljana: J.Stefan Institute and University of Ljubljana, 2004. Book of abstracts. Poster STR-P004, p.620.
494. TUREK, I. - ŠTELINA, J. - MUSIL, C. - KOPČANSKÝ, P. - HNATIČ, M. - POTOČOVÁ, I. - REPAŠAN, M. - AYRJAN, E. - BUŠA, J. Light induced structuralization in magnetic fluids with negative Soret constant. In *ICMF10: 10th International Conference on Magnetic Fluids, August 02 - 06, 2004, Guarujá - Sao Paulo, Brazil.* Abstracts. Poster R0135-1, p.49-50.
495. TUREK, I. - ŠTELINA, J. - MUSIL, C. - KOPČANSKÝ, P. - TIMKO, M. - POTOČOVÁ, I. - KONERACKÁ, M. - JURÍKOVÁ, A. The determination of the hydrodynamic diameter of magnetic particles using FRS experiment. In *ICMF10: 10th International Conference on Magnetic Fluids, August 02 - 06, 2004, Guarujá - Sao Paulo, Brazil.* Abstracts. Poster RO088-1, p.81-82.
496. KOPČANSKÝ, P. - POTOČOVÁ, I. - KONERACKÁ, M. - TIMKO, M. - JANSEN, A.G.M. - JADZYN, J. - CZECHOWSKI, G. The anchoring energy of nematic molecules on magnetic particles in some types of ferronematics. In *ICMF10: 10th International Conference on Magnetic Fluids, August 02 - 06, 2004, Guarujá - Sao Paulo, Brazil.* Abstracts. Poster R0075-1, p.83-84.
497. KOPČANSKÝ, P. - KONERACKÁ, M. - POTOČOVÁ, I. - TIMKO, M. - MARTON, K. - TOMČO, L. The DC dielectric breakdown strength of magnetic fluids based on

- transformer oil. In *ICMF10: 10th International Conference on Magnetic Fluids, August 02 - 06, 2004, Guarujá - Sao Paulo, Brazil*. Abstracts. Poster R0089-1, p.266-267.
498. KOPČANSKÝ, P. - REPAŠAN, M. - POTOČOVÁ, I. - TIMKO, M. - BÁNÓ, M. - HRNČIAR, V. - DEMĽAN, S. Magnetic targeted drug delivery using focused magnet. In *Workshop "Magnetic forces in nano- and biotechnologies", 16-18 September, 2004, Riga, Latvia*. Litva: University of Latvia, 2004. Book of Abstracts. Abstr. p.33-34. Prednáška.
  499. NEMCHIK, J. Nuclear Hadronization vs. HERMES data. In *Small Triangle Meeting on Theoretical Physics, 26-28 September 2004, Vyshka, Ukraina*. Prednáška.
  500. POTOČOVÁ, I. The construction of focused magnet for magnetic targeted drug delivery. In *Small Triangle Meeting on Theoretical Physics, 26-28 September 2004, Vyshka, Ukraina*. Prednáška.
  501. FEDOROV, Y. - SHAKHOV, B. - STEHLÍK, M. Charged particle acceleration in the interplanetary medium: Contribution of alpha-effect. In *Small Triangle Meeting on Theoretical Physics, 26-28 September 2004, Vyshka, Ukraina*. Prednáška.
  502. HNATICĎ, M. Current problems of theory of developed turbulence. In *Small Triangle Meeting on Theoretical Physics, 26-28 September 2004, Vyshka, Ukraina*. Prednáška.
  503. HNATICĎ, M. - JURČIŠIN, M. - REPAŠAN, M. Composite operators in Kraichman model with parity violation. In *Small Triangle Meeting on Theoretical Physics, 26-28 September 2004, Vyshka, Ukraina*. Prednáška.
  504. GLADYSHEV, A. - JURČIŠINOVÁ, E. - JURČIŠIN, M. Mass of the Higgs boson in the MSSM. In *Small Triangle Meeting on Theoretical Physics, 26-28 September 2004, Vyshka, Ukraina*. Prednáška.
  505. PINČÁK, R. - PUDLÁK, R. - OSIPOV, V. Topological defects in Carbon Nanoparticles. In *Small Triangle Meeting on Theoretical Physics, 26-28 September 2004, Vyshka, Ukraina*. Prednáška.
  506. FEDOROV, Y. - HNATICĎ, M. - JURČIŠIN, M. - SHAKHOV, B. - STEHLÍK, M. The alpha-effect in MHD turbulence. In *Small Triangle Meeting on Theoretical Physics, 26-28 September 2004, Vyshka, Ukraina*. Prednáška.
  507. DEMĽENOVÁ, E. - ZOLOTOVÁ, I. - TOMORI, Z. Interactive segmentation of fibre-like objects. In *SAMI 2004: 2nd Slovakian - Hungarian Joint Symposium on Applied Machine Intelligence, Herľany, January 16-17 2004*.
  508. SEDLÁK, M. The structure, dynamics, and kinetics in solutions of simple electrolytes. Effects beyond predictions of Poisson-Boltzmann and Bjerrum theories and comparison with polyelectrolytes. In *Polyelectrolytes, Amherst, Massachusetts, USA, 14.6.2004 - 18.6.2004*. Prednáška.

## Ostatné prednášky a vývesky

### Pozvané prednášky

509. SAMUELY, P. Dvoj pásťová/dvojmedzerová supravodivosť v diboride horčika. In *Seminár na FMFI UK Bratislava, 21.4.2004*. Pozvaná prednáška.

510. SAMUELY, P. Intrinsic Josephson junctions superconductor based on NbSe<sub>2</sub>. In Seminár FMFI, Bratislava, december 2004. Pozvaná prednáška.
511. KUDELA, K. - SLIVKA, M. Energetické častice v kozme a kozmické počasie. Slovenský príspevok k štúdiu efektov október - november 2003. In *17. celoštátny slnečný seminár, St. Lomnica, 27.5.2004*. Pozvaná prednáška.

Prednášky, postery, abstrakty

512. DIKO, P. - ZMORAYOVÁ, K. - ŠEFČÍKOVÁ, M. Tvorba nanočastíc v YBCO masívnych supravodičoch. In *Nanoved 2004: zborník z Celoslovenskej konferencie o nanovedách, nanotechnológiách a nanomateriáloch, 13.-14. September 2004, Košice*. Košice: 2004. Prednáška 04, s.11.
513. ŠKORVÁNEK, I. - KOVÁČ, J. Nanomateriály na báze vzácnych zemín vhodné ako médiá pre magnetické chladienie. In *Nanoved 2004: zborník z Celoslovenskej konferencie o nanovedách, nanotechnológiách a nanomateriáloch, 13.-14. September 2004, Košice*. Košice: 2004. Prednáška 08, s.15.
514. MARCIN, J. - ŠKORVÁNEK, I. - ŠVEC, P. - WIEDERMANN, A. Štúdium mikroštruktúry nanokryštalických zliatin metódou malouhlového rozptylu neutrónov. In *Nanoved 2004: zbor..ník z Celoslovenskej konferencie o nanovedách, nanotechnológiách a nanomateriáloch, 13.-14. September 2004, Košice*. Košice: 2004. Prednáška 12, s.19.
515. TIMKO, M. - KOPČANSKÝ, P. - KONERACKÁ, M. - RAMCHAND, C.N. - VÉKAS, L. - BICA, D. Charakterizácia a aplikácie magnetických kvapalín na báze nanočastíc Fe<sub>3</sub>O<sub>4</sub>. In *Nanoved 2004: zborník z Celoslovenskej konferencie o nanovedách, nanotechnológiách a nanomateriáloch, 13.-14. September 2004, Košice*. Košice: 2004. Prednáška 23, s.30.
516. ŠEFČÍKOVÁ, M. - ZMORAYOVÁ, K. - DIKO, P. - BABU, H. - CARDWELL, D. Tvorba tvarovo anizotropných nano-častíc v masívnych YBCO supravodičoch. In *Nanoved 2004: zborník z Celoslovenskej konferencie o nanovedách, nanotechnológiách a nanomateriáloch, 13.-14. September 2004, Košice*. Košice: 2004. Poster P03, s.41.
517. ZMORAYOVÁ, K. - ŠEFČÍKOVÁ, M. - DIKO, P. - BABU, H. - CARDWELL, D. Nové pinningové nano-centrá v YBCO masívnych supravodičoch s prídavkom ochudobneného uránu. In *Nanoved 2004: zborník z Celoslovenskej konferencie o nanovedách, nanotechnológiách a nanomateriáloch, 13.-14. September 2004, Košice*. Košice: 2004. Poster P04, s.42.
518. KRENICKÝ, T. - MARCIN, J. - ŠVEC, P. - GERLING, R. - ŠKORVÁNEK, I. Magnetické a mechanické vlastnosti amofných a nanokryštalických zliatin FeCoNbB. In *Nanoved 2004: zborník z Celoslovenskej konferencie o nanovedách, nanotechnológiách a nanomateriáloch, 13.-14. September 2004, Košice*. Košice: 2004. Poster P06, s.44.
519. 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 Smolenice*.
520. MIHÁLIK, M. Štúdium fotomagnetických a magnetooptických vlastností analógov Berlínskej modrej a nitroprusidov. In *Workshop APVT 20 - 009902, Danišovce, 3.-5. December, 2004*. Prednáška.

521. ZENTKOVÁ, M. Molekulárne magnety pod tlakom. In *Workshop APVT 20 - 009902, Danišovce, 3.-5. December, 2004.* In *Workshop APVT 20 - 009902, Danišovce, 3.-5. December, 2004.* Prednáška.
522. MITRÓOVÁ, Z. - MIHALIK, M. - MIHALIK, M. - VEJPRAVOVÁ, J. - KISS, L.F. - ZENTKO, A. - LUKÁČOVÁ, M. Magnetic Properties and Heat Capacity of Selected  $\text{Ln}[\text{Fe}(\text{CN})_6] \cdot n\text{H}_2\text{O}$ . In *Workshop APVT 20 - 009902, Danišovce, 3.-5. December, 2004.* Poster. In *Workshop APVT 20 - 009902, Danišovce, 3.-5. December, 2004.* Poster.
523. LUKÁČOVÁ, M. - MIHALIK, M. - KAMARÁD, J. - MITRÓOVÁ, Z. - ARNOLD, Z. - ZENTKOVÁ, M. Effect of Pressure on Magnetic Properties of Vanadium Hexacyanochromate. In *Workshop APVT 20 - 009902, Danišovce, 3.-5. December, 2004.* Poster.
524. ZENTKOVÁ, M. - MIHALIK, M. - ARNOLD, Z. - KAMARÁD, J. - BALANDA, M. - PODGAJNY, R. - SIEKLUCKA, B. Pressure Effect on Ferromagnetic Ordering in Layered Copper Octacyanotungstate. In *Workshop APVT 20 - 009902, Danišovce, 3.-5. December, 2004.* Poster.
525. SENDEK, M. - ZENTKO, A. - MIHALIK, M. - ZENTKOVÁ, M. - MITRÓOVÁ, Z. - BOKOR, M. - KAVEČANSKÝ, V. - MARYŠKO, M. Magnetic Properties and  $^1\text{H}$  NMR Study of  $\text{TM}^{2+}_2[\text{Mo}^{\text{IV}}(\text{CN})_8] \cdot 5\text{H}_2\text{O}$ . In *Workshop APVT 20 - 009902, Danišovce, 3.-5. December, 2004.* Poster.
526. MITRÓOVÁ, Z. - MIHALIK, M. - ZENTKO, A. - BOKOR, M. - KAMARÁS, K. - KAVEČANSKÝ, V. - KOVÁČ, J. - CSACH, K. - TRPČEVSKÁ, J. Synthesis and Physical Properties of Octanyanometallates. In *Workshop APVT 20 - 009902, Danišovce, 3.-5. December, 2004.* Poster.
527. KAVEČANSKÝ, V. Najnovšie poznatky o kryštálovej štruktúre analógov Berlínskej modrej obsahujúcich lantanoid. In *Workshop APVT 20 - 009902, Danišovce, 3.-5. December, 2004.* Prednáška.
528. KAVEČANSKÝ, V. - MAŤAŠ, S. - LUKÁČOVÁ, M. - MITRÓOVÁ, Z. - MIHALIK, M. Neutron Diffraction Study of Crystal Structure and Magnetic Ordering in Rare-Earth Ferricyanides. In *Workshop APVT 20 - 009902, Danišovce, 3.-5. December, 2004.* Poster.
529. KAVEČANSKÝ, V. - MIHALIK, M. - MAŤAŠ, S. - MITRÓOVÁ, Z. - LUKÁČOVÁ, M. Crystal Structure and Magnetism of  $\text{Pr}[\text{Fe}(\text{CN})_6] \cdot 4\text{D}_2\text{O}$ . In *Workshop APVT 20 - 009902, Danišovce, 3.-5. December, 2004.* Poster.
530. HAJKO, V.Jr. - CSACH, K. Štruktúra a vlastnosti rýchlochladených FeCrCuNbSiB zliatin. In *Nanoved 2004: zborník z Celoslovenskej konferencie o nanovedách, nanotechnológiách a nanomateriáloch, 13.-14. September 2004, Košice.* Košice: 2004. Poster P09, s.47.
531. 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 Smolenice.* Poster.
532. HAJKO, V.Jr. - CSACH, K. Structure and thermophysical properties of amorphous-nanocrystalline ribbons. In *14. konferencia slovenských fyzikov, 11.-15.10.2004, Kongresové centrum SAV Smolenice.* Poster.

533. SLIVKA, M. - KUDELA, K. Shift of the radiation belt position of relativistic electrons during October-November 2003. In *14. konferencia slovenských fyzikov, 11.-15.10.2004, Kongresové centrum SAV Smolenice*. Prednáška.
534. 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 Smolenice*. Prednáška.
535. 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 Smolenice*. Prednáška.
536. KOPČANSKÝ, P. - TIMKO, M. - POTOČOVÁ, I. - KONERACKÁ, M. - JURÍKOVÁ, A. - TOMAŠOVIČOVÁ, N. - ŠTELINA, J. - MUSIL, C. - BRACINÍK, J. 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 Smolenice*. Poster.
537. BÁNÓ, M. - MAREK, J. - STUPÁK, M. Influence of hydration on hydrostatic and hydrodynamic parameters of proteins: MC modeling. In *Slovak Biophysical Symposium, Herľany, September 12-15, 2004*. Book of Abstracts. Eds. G. Fabriciová, P. Miškovský. Plenary lectures, p. 22-23.
538. BÁGELOVÁ, J. - FEDUNOVÁ, D. Changes in global stability of ferricytochrome c upon adding of polyanions. In *Slovak Biophysical Symposium, Herľany, September 12-15, 2004*. Book of Abstracts. Eds. G. Fabriciová, P. Miškovský. Poster session, p. 58-59.

### Vydané alebo editované zborníky z vedeckých podujatí

539. CSMAG 04: 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Programme, abstracts. ( Zost. M. Zentková, M. Orendáč ). Košice: UPJŠ, 2004. 261 s.
540. CSMAG 04: Proceedings of the 12<sup>th</sup> Czech and Slovak Conference on Magnetism, July 12.-15., 2004, Košice. Eds. J. Kováč, P. Kollár. Košice: UPJŠ, 2004. In *Czechoslovak Journal of Physics*. Vol.54, Suppl.D (2004), pp.D1-D700.
541. DIS 2004: Proceedings of the 12th International Workshop on Deep Inelastic Scattering, Štrbské Pleso, Slovakia, 14 - 18. April, 2004. Vol.I. Eds. D.Bruncko, J.Ferencei, P.Stríženec. Vol.I.- Vol.II. Bratislava: Academic Electronic Press, 2004. 1176 p. ISBN 80-88880-57-2.
542. NANOVED 2004: Celoslovenská konferencia o nanovedách, nanotechnológiách a nanomateriáloch, 13.-14. september 2004, Košice. ( Zost. P. Diko, I. Škorvánek ). Zborník. Košice: Cex NANOSMART 2004. 59 s.

### Vedecké práce uverejnené na internete

543. (BENCHEKROUN, D. -...- KISH, J. -...- STRÍŽENEC, P. -...-) Comparisons of the Electron and Muon Testbeam Response of the ATLAS Liquid Argon Calorimeters with GEANT4 Simulations. In *ATL-LARG-2004-003*. Geneva: CERN, 27 Jan 2004.



544. ATLAS Liquid Argon EMEC/HEC Collaboration (COJORACU, C. -...- BRUNCKO, D. -...- CHYTRÁČEK, R. -...- KLADIVA, E. -...- STRÍŽENEC, P. -...-) Muon Results from the EMEC/HEC Combined Run corresponding to the ATLAS Pseudorapidity region  $1.6 < \eta < 1.8$ . In *ATLAS note: CERN-ATL-COM-LARG-2004-008*
545. (ALEXA, C. -...- STRÍŽENEC, P. -...-) Geant4 hadronic physics validation with LHC test-beam data: first conclusions. *Preprint CERN-LCGAPP-2004-10*.
546. (AUBERT, B. - BALLANSAT, J. - COLAS, J. - GIRARD, C. - JEREMIE, A. - JEZEQUEL, S. - LESUEUR, J. - SAUVAGE, G. - LISSAUER, D. - MAKOWIECKI, D. - RADEKA, V. - RESCIA, S. - WOLNIEWICZ, K. - BELYMAM, A. - HOUMMADA, A. - CHERIF, A. - CHEVALLEY, J.L. - HERVAS, L. - MARIN, C.P. - FASSNACHT, P. - SZELESS, B. - COLLOT, J. - GALLIN-MARTEL, M.L. - HOSTACHY, J.Y. - MARTIN, P. - LELTCHOUK, M. - SEMAN, M. - CANTON, D. - IMBAULT, D. - LACOUR, F. - ROSSEL, P. - SCHWEWMLING, P. Development and construction of large size signal electrodes for the Atlas electromagnetic calorimeter. In *Preprint CERN-PH-EP-2004-019*. Submitted to Nucl.Instrum.Methods A
547. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Measurement of Prompt Photon Cross Sections in Photoproduction at HERA. In *Preprint DESY-04-118*. hep-ex/0407018 Submitted to Eur.Phys.J.C
548. 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. In *Preprint DESY 04-156*. hep-ex/0408149 Submitted to Eur.Phys.J.C
549. H1 Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Measurement of  $F_2^{cc}$  and  $F_2^{bb}$  at High  $Q^2$  using the H1 Vertex Detector at HERA. In *Preprint DESY 04-209*. hep-ex/0411046 Submitted to Eur.Phys.J.C
550. The 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. hep-ex/0406004
551. MOKHTAR, A.G. for H1 and ZEUS Collaboration (-...- BRUNCKO, D. -...- FERENCEI, J. -...- MURÍN, P. -...-) Recent Electroweak Measurements from the H1 and ZEUS Experiments. hep-ex/0406036