

Nuclear Physics Institute of the ASCR, v. v. i.

RIV - actual data collecting

Document types: Impacted Journal Article, Journal Article, Monograph, Monograph Chapter, Proceedings Paper (International conf.), Proceedings Paper (Czech conf.)

Year(s): 2015

Database: ASEP

0429052 - UJF-V 2015 RIV CH eng C - Proceedings Paper (International conf.)

Míkula, Pavol - Vrána, Miroslav

Residual Stress Investigations of Electron Beam Welds on Samples Prepared by Reconstitution Method.

Applied Mechanics and Materials. Vol. 486. Dürnten-Zürich : Trans Tech Publications, 2014 - (Petrenko, A.), s. 147-150
ISBN 978-3-03785-977-3. ISSN 1660-9336.

[EAN 2013 - 51st International Scientific Conference on Experimental Stress analysis. Litoměřice (CZ), 11.06.2013-13.06.2013]

R&D Projects: GA ČR(CZ) GAP204/12/1360; GA MŠk(XE) LM2011019; GA MPO FR-TI1/378

Institutional Support: RVO:61389005

Keywords: reconstitution method * residual stress * neutron diffraction

Subject RIV: BM - Solid Matter Physics & Magnetism

Permanent link: <http://hdl.handle.net/11104/0234270>

- [WOS](#)

- [DOI](#)

0428685 - UJF-V 2015 RIV CZ eng C - Proceedings Paper (International conf.)

Mráz, L. - Karlsson, L. - Vrána, Miroslav - Míkula, Pavol

Residual Stress Distribution Measurement by Neutron Diffraction of the Single Pass Fillet Steel Welds.

EAN 2014 - CD ROM. Plzeň : Výzkumný a zkušební ústav Plzeň, s.r.o, 2014 - (Polach, P.; Stuna, L.), s. 3 ISBN 978-80-2-1-0377-6.

[EAN 2014 - 52nd International Conference on Experimental Stress Analysis 2014. Mariánské Lázně (CZ), 02.06.2014-05.06.2014]

R&D Projects: GA MŠk(XE) LM2011019; GA ČR(CZ) GA14-36566G

Institutional Support: RVO:61389005

Keywords: residual stress * neutron diffraction * steel welds

Subject RIV: BM - Solid Matter Physics & Magnetism

Permanent link: <http://hdl.handle.net/11104/0234230>

0429959 - UJF-V 2015 RIV GB eng C - Proceedings Paper (International conf.)

Thustý, David

Open charm measurements in p plus p collisions at STAR.

Journal of Physics Conference Series. Vol. 509. Bristol : IOP Publishing Ltd, 2014, 012078. ISSN 1742-6588.

[14th International Conference on Strangeness in Quark Matter (SQM2013). Birmingham (GB), 22.07.2013-27.07.2013]

R&D Projects: GA ČR GA13-20841S

Institutional Support: RVO:61389005

Keywords: STAR * heavy ion collisions * detectors

Subject RIV: BG - Nuclear, Atomic and Molecular Physics, Colliders

Permanent link: <http://hdl.handle.net/11104/0234940>

- [WOS](#)

- [DOI](#)

0428987 - UJF-V 2015 RIV IT eng C - Proceedings Paper (International conf.)

Vajzer, Michal

Charged jet spectra in proton-proton collisions with the ALICE experiment at the LHC.

Proceedings of Science. Trieste : S I S S A, 2013, s. 464. ISSN 1824-8039.

[The European Physical Society Conference on High Energy Physics 2013. Stockholm (SE), 18.07.2013-24.07.2013]

R&D Projects: GA MŠk(CZ) LG13031

Institutional Support: RVO:61389005

Keywords: ALICE * jets * fragmentation

Subject RIV: BG - Nuclear, Atomic and Molecular Physics, Colliders

http://pos.sissa.it/archive/conferences/180/464/EPS-HEP%202013_464.pdf

Permanent link: <http://hdl.handle.net/11104/0234199>

0429960 - UJF-V 2015 RIV GB eng C - Proceedings Paper (International conf.)

Vértesi, Robert

Kaon femtoscopy in root s(NN)=200 GeV central Au plus Au collisions at STAR.

Journal of Physics Conference Series. Vol. 509. Bristol : IOP Publishing Ltd, 2014. ISSN 1742-6588.

[14th International Conference on Strangeness in Quark Matter (SQM2013). Birmingham (GB), 22.07.2013-27.07.2013]

R&D Projects: GA MŠk LA09013

Institutional Support: RVO:61389005

Keywords: STAR * heavy ion collisions * kaon source

Subject RIV: BG - Nuclear, Atomic and Molecular Physics, Colliders

Permanent link: <http://hdl.handle.net/11104/0234941>

• [WOS](#)

• [DOI](#)

0427142 - UJF-V 2015 RIV NL eng J - Journal Article

Abelev, B. - Adam, J. - Adamová, Dagmar - Bielčík, J. - Bielčíková, Jana - Čepila, J. - Ferencei, Jozef - Křelina, M. - Křížek, Filip - Krus, M. - Kučera, Vít - Kushpil, Svetlana - Kushpil, Vasilij - Mareš, Jiří A. - Pachr, M. - Petráček, V. - Petráň, M. - Pospíšil, V. - Schulc, M. - Šmakal, R. - Špaček, M. - Šumbera, Michal - Vajzer, Michal - Wagner, V. - Zach, Č. - Závada, Petr

Multi-strange baryon production at mid-rapidity in Pb-Pb collisions at root s(NN)=2.76 TeV.

Physics Letters. B. Roč. 728, JAN (2014), s. 216-227. ISSN 0370-2693

R&D Projects: GA MŠk(CZ) LG13031

Institutional Support: RVO:68378271 ; RVO:61389005

Keywords: ALICE * heavy ion collisions * quark gluon plasma

Subject RIV: BG - Nuclear, Atomic and Molecular Physics, Colliders; BF - Elementary Particles and High Energy Physics

Impact factor: 6.019, year: 2013

Permanent link: <http://hdl.handle.net/11104/0232760>

• [WOS](#)

• [DOI](#)

0427144 - UJF-V 2015 RIV NL eng J - Journal Article

Abelev, B. - Adam, J. - Adamová, Dagmar - Bielčík, J. - Bielčíková, Jana - Čepila, J. - Ferencei, Jozef - Křelina, M. - Křížek, Filip - Krus, M. - Kučera, Vít - Kushpil, Svetlana - Kushpil, Vasilij - Mareš, Jiří A. - Pachr, M. - Petráček, V. - Petráň, M. - Pospíšil, V. - Schulc, M. - Šmakal, R. - Špaček, M. - Šumbera, Michal - Vajzer, Michal - Wagner, V. - Zach, Č. - Závada, Petr

Multiplicity dependence of pion, kaon, proton and lambda production in p-Pb collisions at root s(NN)=5.02 TeV.

Physics Letters. B. Roč. 728, JAN (2014), s. 25-38. ISSN 0370-2693

R&D Projects: GA MŠk(CZ) LG13031

Institutional Support: RVO:68378271 ; RVO:61389005

Keywords: ALICE * heavy ion collisions * finite temperature

Subject RIV: BG - Nuclear, Atomic and Molecular Physics, Colliders; BF - Elementary Particles and High Energy Physics

Impact factor: 6.019, year: 2013

Permanent link: <http://hdl.handle.net/11104/0232767>

• [WOS](#)

- [DOI](#)

0427153 - UJF-V 2015 RIV US eng J - Journal Article

Abelev, B. - Adam, J. - Adamová, Dagmar - Bielčík, J. - Bielčíková, Jana - Čepila, J. - Ferencei, Jozef - Křelina, M. - Křížek, Filip - Krus, M. - Kučera, Vít - Kushpil, Svetlana - Kushpil, Vasilij - Mareš, Jiří A. - Pachr, M. - Petráček, V. - Petrání, M. - Pospíšil, V. - Schulc, M. - Šmakal, R. - Špaček, M. - Šumbera, Michal - Vajzer, Michal - Wagner, V. - Zach, Č. - Závada, Petr

J/psi production and nuclear effects in p-Pb collisions at $\sqrt{s}=5.02$ TeV.

Journal of High Energy Physics. Roč. 2014, č. 2 (2014), 073. ISSN 1029-8479

R&D Projects: GA MŠK(CZ) LG13031

Institutional Support: RVO:68378271 ; RVO:61389005

Keywords: ALICE * heavy ion collisions * transverse momentum

Subject RIV: BG - Nuclear, Atomic and Molecular Physics, Colliders; BF - Elementary Particles and High Energy Physics

Impact factor: 6.220, year: 2013

Permanent link: <http://hdl.handle.net/11104/0232793>

- [WOS](#)

- [DOI](#)

0428124 - UJF-V 2015 RIV US eng J - Journal Article

Abelev, B. - Adam, J. - Adamová, Dagmar - Bielčík, J. - Bielčíková, Jana - Čepila, J. - Ferencei, Jozef - Hladký, Jan - Křelina, M. - Křížek, Filip - Krus, M. - Kučera, Vít - Kushpil, Svetlana - Kushpil, Vasilij - Mareš, Jiří A. - Pachr, M. - Petráček, V. - Petrání, M. - Pospíšil, V. - Schulc, M. - Šmakal, R. - Špaček, M. - Šumbera, Michal - Vajzer, Michal - Wagner, V. - Zach, Č. - Závada, Petr

Two- and three-pion quantum statistics correlations in Pb-Pb collisions at root S-NN=2.76 TeV at the CERN Large Hadron Collider.

Physical Review. C. Roč. 89, č. 2 (2014), 024911. ISSN 0556-2813

R&D Projects: GA MŠK(CZ) LG13031

Institutional Support: RVO:68378271 ; RVO:61389005

Keywords: pion correlations * heavy ion collisions * ALICE

Subject RIV: BG - Nuclear, Atomic and Molecular Physics, Colliders; BF - Elementary Particles and High Energy Physics

Impact factor: 3.881, year: 2013

Permanent link: <http://hdl.handle.net/11104/0233538>

- [WOS](#)

- [DOI](#)

0428402 - UJF-V 2015 RIV US eng J - Journal Article

Abelev, B. - Adam, J. - Adamová, Dagmar - Bielčík, J. - Bielčíková, Jana - Čepila, J. - Ferencei, Jozef - Hladký, Jan - Křelina, M. - Křížek, Filip - Krus, M. - Kučera, Vít - Kushpil, Svetlana - Kushpil, Vasilij - Mareš, Jiří A. - Pachr, M. - Petráček, V. - Petrání, M. - Pospíšil, V. - Schulc, M. - Šmakal, R. - Špaček, M. - Šumbera, Michal - Vajzer, Michal - Wagner, V. - Zach, Č. - Závada, Petr

Measurement of charged jet suppression in Pb-Pb collisions at root s(NN)=2.76 TeV.

Journal of High Energy Physics. Roč. 2014, č. 3 (2014), 013. ISSN 1029-8479

R&D Projects: GA MŠK(CZ) LG13031

Institutional Support: RVO:68378271 ; RVO:61389005

Keywords: ALICE * jet * heavy ions

Subject RIV: BG - Nuclear, Atomic and Molecular Physics, Colliders; BF - Elementary Particles and High Energy Physics

Impact factor: 6.220, year: 2013

Permanent link: <http://hdl.handle.net/11104/0233771>

- [WOS](#)

- [DOI](#)

0427148 - UJF-V 2015 RIV US eng J - Journal Article

Adamczyk, L. - Adkins, J. K. - Agakishiev, G. - Aggarwal, M. M. - Ahammed, Z. - Alekseev, I. - Alford, J. - Anson, C. - Aparin, A. - Arkhipkin, D. - Barnovská, Zuzana - Bielčík, J. - Bielčíková, Jana - Chaloupka, P. - Hajková, O. -

Pachr, M. - Rusňák, Jan - Šumbera, Michal - Tlustý, David - Vértési, Robert

Energy Dependence of Moments of Net-Proton Multiplicity Distributions at RHIC.

Physical Review Letters. Roč. 112, č. 3 (2014), 032302. ISSN 0031-9007

R&D Projects: GA ČR GA13-20841S

Institutional Support: RVO:61389005

Keywords: STAR * heavy ion collisions * proton and antiproton production

Subject RIV: BG - Nuclear, Atomic and Molecular Physics, Colliders

Impact factor: 7.728, year: 2013

Permanent link: <http://hdl.handle.net/11104/0232792>

- [WOS](#)

- [DOI](#)

0428005 - UJF-V 2015 RIV US eng J - Journal Article

Adamczyk, L. - Adkins, J. K. - Agakishiev, G. - Aggarwal, M. M. - Ahammed, Z. - Alekseev, I. - Alford, J. - Anson, C. - Aparin, A. - Arkhipkin, D. - Barnovská, Zuzana - Bielčík, J. - Bielčíková, Jana - Chaloupka, P. - Pachr, M. - Rusňák, Jan - Šumbera, Michal - Tlustý, David - Vértési, Robert

Neutral pion cross section and spin asymmetries at intermediate pseudorapidity in polarized proton collisions at root s=200 GeV.

Physical Review D: Particles, Fields, Gravitation and Cosmology. Roč. 89, č. 1 (2014), 012001. ISSN 1550-7998

R&D Projects: GA ČR GA13-20841S

Institutional Support: RVO:61389005

Keywords: pions production * transverse momentum * STAR

Subject RIV: BG - Nuclear, Atomic and Molecular Physics, Colliders

Impact factor: 4.864, year: 2013

Permanent link: <http://hdl.handle.net/11104/0233434>

- [WOS](#)

- [DOI](#)

0428244 - UJF-V 2015 RIV US eng J - Journal Article

Adamczyk, L. - Adkins, J. K. - Agakishiev, G. - Aggarwal, M. M. - Ahammed, Z. - Alekseev, I. - Alford, J. - Anson, C. - Aparin, A. - Arkhipkin, D. - Bielčík, J. - Bielčíková, Jana - Chaloupka, P. - Pachr, M. - Rusňák, Jan - Rusňáková, O. - Šumbera, Michal - Tlustý, David - Trzeciak, B. A. - Vértési, Robert

Jet-Hadron Correlations in root s(NN)=200 GeV p plus p and Central Au plus Au Collisions.

Physical Review Letters. Roč. 112, č. 12 (2014), s. 122301. ISSN 0031-9007

R&D Projects: GA ČR GA13-20841S

Institutional Support: RVO:61389005

Keywords: heavy ion collisions * STAR * transverse momentum

Subject RIV: BG - Nuclear, Atomic and Molecular Physics, Colliders

Impact factor: 7.728, year: 2013

Permanent link: <http://hdl.handle.net/11104/0233640>

- [WOS](#)

- [DOI](#)

0428462 - UJF-V 2015 RIV US eng J - Journal Article

Adamczyk, L. - Adkins, J. K. - Agakishiev, G. - Aggarwal, M. M. - Ahammed, Z. - Alakhverdyants, A.V. - Alekseev, I. - Alford, J. - Anson, C. - Barnovská, Zuzana - Bielčík, J. - Bielčíková, Jana - Chaloupka, P. - Chung, Paul - Hajková, O. - Kapitán, Jan - Pachr, M. - Rusňák, Jan - Šumbera, Michal - Tlustý, David

Measurement of charge multiplicity asymmetry correlations in high-energy nucleus-nucleus collisions at root S-NN=200 GeV.

Physical Review. C. Roč. 89, č. 4 (2014), 044908. ISSN 0556-2813

R&D Projects: GA ČR GA13-20841S

Institutional Support: RVO:61389005

Keywords: STAR collaboration * heavy ion collisions * charge multiplicity asymmetries

Subject RIV: BG - Nuclear, Atomic and Molecular Physics, Colliders

Impact factor: 3.881, year: 2013

Permanent link: <http://hdl.handle.net/11104/0233807>

- [WOS](#)
- [DOI](#)

0429957 - UJF-V 2015 RIV US eng J - Journal Article

Adamczyk, L. - Adkins, J. K. - Agakishiev, G. - Aggarwal, M. M. - Ahammed, Z. - Alekseev, I. - Alford, J. - Anson, C. - Aparin, A. - Arkhipkin, D. - Bielčík, J. - Bielčíková, Jana - Chaloupka, P. - Pachr, M. - Rusňák, Jan - Rusňáková, O. - Šumbera, Michal - Tlustý, David - Trzeciak, B. A. - Vértési, Robert

Beam-Energy Dependence of the Directed Flow of Protons, Antiprotons, and Pions in Au plus Au Collisions.

Physical Review Letters. Roč. 112, č. 16 (2014), s. 162301. ISSN 0031-9007

R&D Projects: GA ČR GA13-20841S

Institutional Support: RVO:61389005

Keywords: heavy ion collisions * quark-gluon plasma * STAR

Subject RIV: BG - Nuclear, Atomic and Molecular Physics, Colliders

Impact factor: 7.728, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234939>

- [WOS](#)
- [DOI](#)
- [Inst. Repository](#)

0428220 - UJF-V 2015 RIV NL eng J - Journal Article

Agakishiev, G. - Balanda, A. - Belver, D. - Belyaev, A. - Berger-Chen, J. C. - Blanco, A. - Böhmer, M. - Boyard, J.L. - Cabanelas, P. - Chernenko, S. - Dybczak, A. - Epple, E. - Fabbietti, L. - Fateev, O. - Krásá, Antonín - Křížek, Filip - Kugler, Andrej - Sobolev, Yuri, G. - Tlustý, Pavel - Wagner, Vladimír

Searching a dark photon with HADES.

Physics Letters. B. Roč. 731, APR (2014), s. 265-271. ISSN 0370-2693

R&D Projects: GA ČR GA13-06759S

Institutional Support: RVO:61389005

Keywords: HADES * dark photon * hidden sector * dark matter * rare eta decays

Subject RIV: BG - Nuclear, Atomic and Molecular Physics, Colliders

Impact factor: 6.019, year: 2013

Permanent link: <http://hdl.handle.net/11104/0233614>

- [WOS](#)
- [DOI](#)

0428457 - UJF-V 2015 RIV US eng J - Journal Article

Agakishiev, G. - Aggarwal, M. M. - Ahammed, Z. - Alakhverdyants, A.V. - Alekseev, I. - Alford, J. - Anderson, B. D. - Anson, C. - Bielčík, J. - Bielčíková, Jana - Chaloupka, Petr - Chung, Paul - Hajková, O. - Kapitán, Jan - Kushpil, Vasilij - Krus, M. - Pachr, M. - Rusňák, Jan - Šumbera, Michal - Tlustý, David

Event-plane-dependent dihadron correlations with harmonic $v(n)$ subtraction in Au plus Au collisions at $\sqrt{s_{NN}}=200$ GeV.

Physical Review. C. Roč. 89, č. 4 (2014), 041901. ISSN 0556-2813

R&D Projects: GA ČR GA13-20841S

Institutional Support: RVO:61389005

Keywords: STAR collaboration * relativistic nuclear collisions * quark-gluon plasma

Subject RIV: BG - Nuclear, Atomic and Molecular Physics, Colliders

Impact factor: 3.881, year: 2013

Permanent link: <http://hdl.handle.net/11104/0233837>

- [WOS](#)
- [DOI](#)

0428663 - UJF-V 2015 RIV US eng J - Journal Article

Agakishiev, G. - Arnold, O. - Balanda, A. - Belver, D. - Belyaev, A.V. - Berger-Chen, J. C. - Blanco, A. - Böhmer, M. - Boyard, J.L. - Cabanelas, P. - Chernenko, S. - Dybczak, A. - Eppe, E. - Fabbietti, L. - Krásá, Antonín - Křížek, Filip - Kugler, Andrej - Sobolev, Yuri, G. - Tlustý, Pavel - Wagner, Vladimír

Lambda hyperon production and polarization in collisions of p(3.5 GeV)+Nb.

European Physical Journal A. Roč. 50, č. 5 (2014), s. 81. ISSN 1434-6001

R&D Projects: GA ČR GA13-06759S

Institutional Support: RVO:61389005

Keywords: heavy ion collisions * HADES * spectrometer

Subject RIV: BG - Nuclear, Atomic and Molecular Physics, Colliders

Impact factor: 2.421, year: 2013

Permanent link: <http://hdl.handle.net/11104/0233986>

- [WOS](#)

- [DOI](#)

0428664 - UJF-V 2015 RIV US eng J - Journal Article

Agakishiev, G. - Balanda, A. - Belver, D. - Belyaev, A. - Berger-Chen, J. C. - Blanco, A. - Böhmer, M. - Boyard, J.L. - Cabanelas, P. - Chernenko, S. - Dybczak, A. - Eppe, E. - Fabbietti, L. - Fateev, O. - Krásá, Antonín - Křížek, Filip - Kugler, Andrej - Sobolev, Yuri, G. - Tlustý, Pavel - Wagner, Vladimír

Baryon resonance production and dielectron decays in proton-proton collisions at 3.5 GeV.

European Physical Journal A. Roč. 50, č. 5 (2014), s. 82. ISSN 1434-6001

R&D Projects: GA ČR GA13-06759S

Institutional Support: RVO:61389005

Keywords: heavy ion collisions * bayronic resonance * HADES

Subject RIV: BG - Nuclear, Atomic and Molecular Physics, Colliders

Impact factor: 2.421, year: 2013

Permanent link: <http://hdl.handle.net/11104/0233970>

- [WOS](#)

- [DOI](#)

0429898 - UJF-V 2015 RIV GB eng J - Journal Article

Ambrožová, Iva - Yasuda, N. - Kodaira, S. - Sihver, L.

Measurement of target fragments produced by 160 MeV proton beam in aluminum and polyethylene with CR-39 plastic nuclear track detectors.

Radiation Measurements. Roč. 64, MAY (2014), s. 29-34. ISSN 1350-4487

R&D Projects: GA AV ČR KJB100480901; GA AV ČR IAA100480902

Institutional Support: RVO:61389005

Keywords: target fragments * high-energy protons * Aluminium * Polyethylene * plastic nuclear track detectors * CR-39

Subject RIV: BG - Nuclear, Atomic and Molecular Physics, Colliders

Impact factor: 1.140, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234885>

- [WOS](#)

- [DOI](#)

0428452 - UJF-V 2015 RIV US eng J - Journal Article

Andreeva, O. V. - Golubeva, M. B. - Guber, F. F. - Ivashkin, A. P. - Krásá, Antonín - Kugler, Andrej - Kurepin, A. B. - Petukhov, O. A. - Reshetin, A. I. - Sadovsky, A. S. - Svoboda, Ondřej - Sobolev, Yuri, G. - Tlustý, Pavel - Usenko, E. A.

Forward scintillation hodoscope for nuclear fragment detection at the high acceptance dielectron spectrometer (HADES) setup.

Instruments and Experimental Techniques. Roč. 57, č. 2 (2014), s. 103-119. ISSN 0020-4412

R&D Projects: GA ČR GA13-06759S

Institutional Support: RVO:61389005

Keywords: HADES * collisions * detectors

Subject RIV: BG - Nuclear, Atomic and Molecular Physics, Colliders

Impact factor: 0.349, year: 2013

Permanent link: <http://hdl.handle.net/11104/0233834>

- [WOS](#)
- [DOI](#)

0428658 - UJF-V 2015 RIV US eng J - Journal Article

Avrigeanu, M. - Avrigeanu, V. - Bém, Pavel - Fischer, U. - Honusek, Milan - Katovsky, K. - Manailescu, C. - Mrázek, Jaromír - Šimečková, Eva - Závorka, Lukáš

Low energy deuteron-induced reactions on Fe isotopes.

Physical Review. C. Roč. 89, č. 4 (2014), 044613. ISSN 0556-2813

Institutional Support: RVO:61389005

Keywords: cross sections * proton spectra * polarized deuterons

Subject RIV: BG - Nuclear, Atomic and Molecular Physics, Colliders

Impact factor: 3.881, year: 2013

Permanent link: <http://hdl.handle.net/11104/0233968>

- [WOS](#)
- [DOI](#)

0429049 - UJF-V 2015 RIV US eng J - Journal Article

Barseghyan, D. - Exner, Pavel

A regular version of Smilansky model.

Journal of Mathematical Physics. Roč. 55, č. 4 (2014), 042104. ISSN 0022-2488

R&D Projects: GA ČR(CZ) GA14-06818S

Institutional Support: RVO:61389005

Keywords: irreversible quantum graphs * absolutely continuous-spectrum

Subject RIV: BE - Theoretical Physics

Impact factor: 1.176, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234237>

- [WOS](#)
- [DOI](#)

0428751 - UJF-V 2015 RIV FR eng J - Journal Article

Bergeron, H. - Gazeau, J.P. - Siegl, Petr - Youssef, A.

Semi-classical behavior of Poschl-Teller coherent states.

EPL. Roč. 92, č. 6 (2010), s. 60003. ISSN 1286-4854

R&D Projects: GA MŠK LC06002

Institutional Support: CEZ:AV0Z10480505

Institutional Support: RVO:61389005

Keywords: coherent states * Pöschl-Teller potential * quantization

Subject RIV: BE - Theoretical Physics

Permanent link: <http://hdl.handle.net/11104/0234034>

- [WOS](#)
- [DOI](#)

0428219 - UJF-V 2015 RIV GB eng J - Journal Article

Borovička, Jan - Mihaljevič, M. - Gryndler, Milan - Kubrová, Jaroslava - Žigová, Anna - Hršelová, Hana - Řanda, Zdeněk

Lead isotopic signatures of saprotrophic macrofungi of various origins: Tracing for lead sources and possible applications in geomycology.

Applied Geochemistry. Roč. 43, APR (2014), s. 114-120. ISSN 0883-2927

R&D Projects: GA ČR(CZ) GAP504/11/0484

Institutional Support: RVO:61388971 ; RVO:67985831 ; RVO:61389005

Keywords: macrofungi * Pb isotopic ratio * soils

Subject RIV: CH - Nuclear & Quantum Chemistry; DD - Geochemistry; EE - Microbiology, Virology

Impact factor: 2.021, year: 2013

Permanent link: <http://hdl.handle.net/11104/0233613>

- [WOS](#)
- [DOI](#)

0428454 - UJF-V 2015 RIV US eng J - Journal Article

Brauner, Tomáš - Watanabe, H.

Spontaneous breaking of spacetime symmetries and the inverse Higgs effect.

Physical Review D: Particles, Fields, Gravitation and Cosmology. Roč. 89, č. 8 (2014), 085004. ISSN 1550-7998

Institutional Support: RVO:61389005

Keywords: phenomenological Lagrangians * broken generators

Subject RIV: BE - Theoretical Physics

Impact factor: 4.864, year: 2013

Permanent link: <http://hdl.handle.net/11104/0233836>

- [WOS](#)
- [DOI](#)

0428405 - UJF-V 2015 RIV PL eng J - Journal Article

Calinescu, S. - Ceceres, L. - Grévy, S. - Sorlin, O. - Sohler, D. - Stanoiu, M. - Negoita, F. - Clement, E. - Astatatyan, R. - Borcea, C. - Borcea, R. - Bowry, M. - Catford, W. - Dombradi, Z. - Franchoo, S. - Garcia, R. - Gillibert, R. - Guerin, H. - Thomas, J.C. - Kuti, I. - Lukyanov, S. - Lepailleur, A. - Maslov, V. - Morfouace, P. - Mrázek, Jaromír - Niikura, M. - Perrot, L. - Podolyak, Z. - Petrone, C. - Peniozhkevich, Y. - Roger, T. - Rotaru, F. - Stefan, I. - Vajta, Zs. - Wilson, E.

Study of the Neutron-rich Isotope ⁴⁶Ar Through Intermediate Energy Coulomb Excitation.

Acta physica Polonica. B. Roč. 45, č. 2 (2014), s. 199-204. ISSN 0587-4254

Institutional Support: RVO:61389005

Keywords: GANIL * detector

Subject RIV: BG - Nuclear, Atomic and Molecular Physics, Colliders

Impact factor: 0.998, year: 2013

Permanent link: <http://hdl.handle.net/11104/0233774>

- [WOS](#)
- [DOI](#)

0428450 - UJF-V 2015 RIV CH eng J - Journal Article

Čapek, J. - Máthis, K. - Clausen, B. - Stráská, J. - Beran, Přemysl - Lukáš, Petr

Study of the loading mode dependence of the twinning in random textured cast magnesium by acoustic emission and neutron diffraction methods.

Materials Science and Engineering A-Structural materials. Roč. 602, APR (2014), s. 25-32. ISSN 0921-5093

R&D Projects: GA ČR(CZ) GAP204/12/1360

Institutional Support: RVO:61389005

Keywords: magnesium * acoustic emission * neutron diffraction * deformation twinning

Subject RIV: BM - Solid Matter Physics & Magnetism

Impact factor: 2.409, year: 2013

Permanent link: <http://hdl.handle.net/11104/0233832>

- [WOS](#)
- [DOI](#)

0428991 - UJF-V 2015 RIV CZ cze J - Journal Article

Dragoun, Otokar

Měření hmotnosti neutrin.

[Measurement of the neutrino mass.]

Československý časopis pro fyziku. Roč. 60, č. 3 (2010), s. 151-157. ISSN 0009-0700

R&D Projects: GA MŠk LA318; GA MŠk LC07050

Institutional Support: RVO:61389005

Keywords: neutrino mass * beta-ray spectroscopy * electron spectrometers

Subject RIV: BF - Elementary Particles and High Energy Physics

Permanent link: <http://hdl.handle.net/11104/0234202>

0428992 - UJF-V 2015 RIV CZ cze J - Journal Article

Dragoun, Otokar

Nové poznatky o měření hmotnostních stavů neutrina.

[New knowledge of the neutrino mass states.]

Pokroky matematiky, fyziky & astronomie. Roč. 58, č. 4 (2013), s. 285-300. ISSN 0032-2423

R&D Projects: GA ČR(CZ) GAP203/12/1896

Institutional Support: RVO:61389005

Keywords: neutrino mass states * beta-ray spectroscopy * sterile neutrinos

Subject RIV: BF - Elementary Particles and High Energy Physics

Permanent link: <http://hdl.handle.net/11104/0234203>

0425773 - UJF-V 2015 RIV US eng J - Journal Article

Exner, Pavel - Pankrashkin, K.

Strong Coupling Asymptotics for a Singular Schrodinger Operator with an Interaction Supported by an Open Arc.

Communications in Partial Differential Equations. Roč. 39, č. 2 (2014), s. 193-212. ISSN 0360-5302

R&D Projects: GA ČR GAP203/11/0701

Institutional Support: RVO:61389005

Keywords: Eigenvalue * Schrödinger operator * singular interaction * strong coupling * 35Q40 * 35P15 * 35J10

Subject RIV: BE - Theoretical Physics

Impact factor: 1.194, year: 2013

Permanent link: <http://hdl.handle.net/11104/0231570>

- [WOS](#)
- [DOI](#)

0427324 - UJF-V 2015 RIV US eng J - Journal Article

Exner, Pavel - Laptev, A. - Usman, M.

On Some Sharp Spectral Inequalities for Schrodinger Operators on Semiaxis.

Communications in Mathematical Physics. Roč. 326, č. 2 (2014), s. 531-541. ISSN 0010-3616

R&D Projects: GA ČR GAP203/11/0701

Institutional Support: RVO:61389005

Keywords: Schrödinger operators * Lieb-Thirring inequalities * constants

Subject RIV: BE - Theoretical Physics

Impact factor: 1.901, year: 2013

Permanent link: <http://hdl.handle.net/11104/0232895>

- [WOS](#)
- [DOI](#)

0429043 - UJF-V 2015 RIV CH eng J - Journal Article

Exner, Pavel - Seifert, C. - Stollmann, P.

Absence of Absolutely Continuous Spectrum for the Kirchhoff Laplacian on Radial Trees.

Annales Henri Poincaré. Roč. 15, č. 6 (2014), s. 1109-1121. ISSN 1424-0637

R&D Projects: GA ČR GAP203/11/0701

Institutional Support: RVO:61389005

Keywords: metric trees * operators

Subject RIV: BE - Theoretical Physics

Impact factor: 1.368, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234235>

- [WOS](#)
- [DOI](#)

0428451 - UJF-V 2015 RIV HR eng J - Journal Article

Exner, Pavel - Barseghyan, Diana

Spectral estimates for Dirichlet Laplacians on perturbed twisted tubes.

Operators and Matrices. Roč. 8, č. 1 (2014), s. 167-183. ISSN 1846-3886

R&D Projects: GA ČR GAP203/11/0701

Institutional Support: RVO:61389005

Keywords: Dirichlet Laplacian * twisted tube * discrete spectrum * eigenvalue estimates

Subject RIV: BE - Theoretical Physics

Impact factor: 0.509, year: 2013

Permanent link: <http://hdl.handle.net/11104/0233833>

- [WOS](#)
- [DOI](#)

0429045 - UJF-V 2015 RIV GB eng J - Journal Article

Fink, Dietmar - Hernandez, G.M. - Ruiz, N. L. - Vacík, Jiří - Hnatowicz, Vladimír - Garcia-Arellano, H. - Alfonta, L. - Kiv, A.

Coupled chemical reactions in dynamic nanometric confinement: V. The influence of Li⁺ and F⁻ ions on etching of nuclear tracks in polymers.

Radiation Effects and Defects in Solids. Roč. 169, č. 5 (2014), s. 396-417. ISSN 1042-0150

R&D Projects: GA ČR(CZ) GBP108/12/G108; GA MŠk(XE) LM2011019

Institutional Support: RVO:61389005

Keywords: tracks * biotechnology * nanostruct * ions * etching

Subject RIV: BO - Biophysics

Impact factor: 0.603, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234232>

- [WOS](#)
- [DOI](#)

0428404 - UJF-V 2015 RIV PL eng J - Journal Article

Gal, A. - Friedman, E. - Barnea, N. - Cieplý, Aleš - Mareš, Jiří - Gazda, Daniel

In-medium (K)over-bar- and eta-Meson Interactions and Bound States.

Acta physica Polonica. B. Roč. 45, č. 3 (2014), s. 673-687. ISSN 0587-4254

R&D Projects: GA ČR(CZ) GAP203/12/2126

Institutional Support: RVO:61389005

Keywords: meson-baryon * subthreshold energies * n amplitudes

Subject RIV: BE - Theoretical Physics

Impact factor: 0.998, year: 2013

Permanent link: <http://hdl.handle.net/11104/0233773>

- [WOS](#)
- [DOI](#)

0428201 - UJF-V 2015 RIV US eng J - Journal Article

Inoyatov, A. K. - Ryšavý, Miloš - Kovalík, Alojz - Filosofov, D. V. - Zhdanov, V. S. - Yushkevich, Yu. V.

Improved energies for the 5.2 keV M1 and 42.0 keV M2 nuclear transitions in Rb-83.

European Physical Journal A. Roč. 50, č. 3 (2014), s. 1-6. ISSN 1434-6001

R&D Projects: GA ČR(CZ) GAP203/12/1896

Institutional Support: RVO:61389005

Keywords: internal-conversion * decay

Subject RIV: BG - Nuclear, Atomic and Molecular Physics, Colliders

Impact factor: 2.421, year: 2013

Permanent link: <http://hdl.handle.net/11104/0233607>

- [WOS](#)
- [DOI](#)

0428165 - UJF-V 2015 RIV GB eng J - Journal Article

Jakubský, Vít - Kuru, S. - Negro, J.

Carbon nanotubes in an inhomogeneous transverse magnetic field: exactly solvable model.

Journal of Physics A-Mathematical and Theoretical. Roč. 47, č. 11 (2014), s. 115307. ISSN 1751-8113

R&D Projects: GA AV ČR GPP203/11/P038

Institutional Support: RVO:61389005

Keywords: carbon nanotubes * dirac equation * magnetic field * finite-gap system

Subject RIV: BE - Theoretical Physics

Impact factor: 1.687, year: 2013

Permanent link: <http://hdl.handle.net/11104/0233581>

- [WOS](#)
- [DOI](#)

0427322 - UJF-V 2015 RIV IE eng J - Journal Article

Kallifatidis, B. - Borovička, Jan - Stránská, J. - Drábek, J. - Mills, D. K.

Fluorescent Random Amplified Microsatellites (F-RAMS) analysis of mushrooms as a forensic investigative tool.

Forensic Science International-Genetics. Roč. 9, MAR (2014), s. 25-32. ISSN 1872-4973

Institutional Support: RVO:61389005

Keywords: random amplified microsatellites * hallucinogenic mushrooms * DNA profiling

Subject RIV: EB - Genetics & Molecular Biology

Impact factor: 3.202, year: 2013

Permanent link: <http://hdl.handle.net/11104/0232890>

- [WOS](#)
- [DOI](#)

0427327 - UJF-V 2015 RIV US eng J - Journal Article

Klir, D. - Kubeš, P. - Řezáč, K. - Cikhardt, J. - Kravarik, J. - Šíla, O. - Shishlov, A. V. - Kovalchuk, B. M. - Ratakhin, N. A. - Kokshenev, V. A. - Labetsky, A. Yu. - Cherdizov, R. K. - Fursov, F. I. - Kurmaev, N. E. - Dudkin, G. N. - Nechaev, B. A. - Padalko, V. N. - Orčíková, Hana - Turek, Karel

Efficient Neutron Production from a Novel Configuration of Deuterium Gas-Puff Z-Pinch.

Physical Review Letters. Roč. 112, č. 9 (2014), 095001. ISSN 0031-9007

R&D Projects: GA ČR GAP205/12/0454; GA MŠk(CZ) LG13029

Not R&D Projects: GA MŠk(CZ) LH13283

Institutional Support: RVO:61389005

Keywords: deuterium * neutron yield * neutron production

Subject RIV: BG - Nuclear, Atomic and Molecular Physics, Colliders

Impact factor: 7.728, year: 2013

Permanent link: <http://hdl.handle.net/11104/0232896>

- [WOS](#)
- [DOI](#)

0425781 - UJF-V 2015 RIV GB eng J - Journal Article

Kodaira, S. - Tolocheck, R. V. - Ambrožová, Iva - Kawashima, H. - Yasuda, N. - Kurano, M. - Kitamura, H. - Uchihori, Y. - Kobayashi, I. - Hakamada, H. - Suzuki, A. - Kartsev, I. S. - Yarmanova, E. N. - Nikolaev, I. V. - Shurshakov, V. A.

Verification of shielding effect by the water-filled materials for space radiation in the International Space Station using

passive dosimeters.

Advances in Space Research. Roč. 53, č. 1 (2014), s. 1-7. ISSN 0273-1177

Institutional Support: RVO:61389005

Keywords: space radiation dosimetry * water shield * dose reduction * passive dosimeters * CR-39 * TLD

Subject RIV: BG - Nuclear, Atomic and Molecular Physics, Colliders

Impact factor: 1.238, year: 2013

Permanent link: <http://hdl.handle.net/11104/0231577>

- [WOS](#)
- [DOI](#)

0428327 - UJF-V 2015 RIV JP eng J - Journal Article

Kondej, S. - Krejčířík, David

Spectral Analysis of a Quantum System with a Double Line Singular Interaction.

Publications of the Research Institute for Mathematical Sciences. Roč. 49, č. 4 (2013), s. 831-859. ISSN 0034-5318

R&D Projects: GA ČR GAP203/11/0701

Institutional Support: RVO:61389005

Keywords: Schrödinger operator * singular perturbation * spectral analysis * Hardy inequality * resonance

Subject RIV: BE - Theoretical Physics

Impact factor: 0.614, year: 2013

Permanent link: <http://hdl.handle.net/11104/0233680>

- [WOS](#)
- [DOI](#)

0425780 - UJF-V 2015 RIV CH eng J - Journal Article

Krejčířík, David - Siegl, Petr - Železný, Jakub

On the Similarity of Sturm-Liouville Operators with Non-Hermitian Boundary Conditions to Self-Adjoint and Normal Operators.

Complex Analysis and Operator Theory. Roč. 8, č. 1 (2014), s. 255-281. ISSN 1661-8254

R&D Projects: GA MŠk LC06002; GA MŠk LC527; GA ČR GAP203/11/0701

Not R&D Projects: GA ČR(CZ) GD202/08/H072

Institutional Support: RVO:61389005

Keywords: Sturm-Liouville operators * non-symmetric Robin boundary conditions * similarity to normal or self-adjoint operators * discrete spectral operator * complex symmetric operator * PT-symmetry * metric operator * C operator * Hilbert-Schmidt operators

Subject RIV: BE - Theoretical Physics

Impact factor: 0.519, year: 2013

Permanent link: <http://hdl.handle.net/11104/0231575>

- [WOS](#)
- [DOI](#)

0428794 - MU-W 2015 RIV BG eng J - Journal Article

Křížek, Michal - Křížek, Filip - Somer, L.

Which effects of galaxy clusters can reduce the amount of dark matter.

Bulgarian astronomical journal. -, č. 21 (2014), s. 1-23. ISSN 1313-2709

R&D Projects: GA ČR GA14-02067S; GA MŠk EE2.3.20.0207

Institutional Support: RVO:67985840 ; RVO:61389005

Keywords: dark matter * gravitational lensing * Virial Theorem

Subject RIV: BA - General Mathematics; BG - Nuclear, Atomic and Molecular Physics, Colliders

<http://www.astro.bas.bg/AIJ/issues/n21/MKrizek.pdf>

Permanent link: <http://hdl.handle.net/11104/0234066>

- [Inst. Repository](#)

0428459 - UJF-V 2015 RIV NL eng J - Journal Article

Kubešová, Marie - Krausová, Ivana - Kučera, Jan

Verification of k(0)-NAA results at the LVR-15 reactor in A similar to eA3/4 with the use of Au plus Mo plus Rb(plus Zn) monitor set.

Journal of Radioanalytical and Nuclear Chemistry. Roč. 300, č. 2 (2014), s. 473-480. ISSN 0236-5731

R&D Projects: GA ČR(CZ) GBP108/12/G108; GA MŠk(XE) LM2011019

Institutional Support: RVO:61389005

Keywords: neutron activation analysis * k(0) standardization * neutron flux parameters * monitor set for long irradiations

Subject RIV: CB - Analytical Chemistry, Separation

Impact factor: 1.415, year: 2013

Permanent link: <http://hdl.handle.net/11104/0233803>

- [WOS](#)
- [DOI](#)

0428458 - UJF-V 2015 RIV NL eng J - Journal Article

Kučera, Jan - Kubešová, Marie - Bartoníček, B.

Determination of elemental impurities in polymer materials of electrical cables of safety systems of nuclear power plants by k(0)-INAA.

Journal of Radioanalytical and Nuclear Chemistry. Roč. 300, č. 2 (2014), s. 685-691. ISSN 0236-5731.

[6th International Ko Users Workshop. Budapest, 22.09.2013-27.09.2013]

R&D Projects: GA TA ČR TA02010218; GA MŠk(XE) LM2011019

Institutional Support: RVO:61389005

Keywords: neutron activation analysis * k(0) standardization * polymer materials * element additives * cables of safety systems * nuclear power plant

Subject RIV: JF - Nuclear Energetics

Impact factor: 1.415, year: 2013

Permanent link: <http://hdl.handle.net/11104/0233804>

- [WOS](#)
- [DOI](#)

0428395 - UJF-V 2015 RIV NL eng J - Journal Article

Macková, Anna - Malinský, Petr - Mikšová, Romana - Pupíková, Hana - Khaibullin, R. I. - Slepíčka, P. - Gombitová, A. - Kováčík, L. - Švorčík, V. - Matoušek, J.

Characterization of PEEK, PET and PI implanted with Mn ions and sub-sequently annealed.

Nuclear Instruments & Methods in Physics Research Section B. Roč. 325, APR 15 (2014), s. 89-96. ISSN 0168-583X

R&D Projects: GA MŠk(XE) LM2011019; GA ČR GA106/09/0125; GA ČR GBP302/12/G157

Institutional Support: RVO:61389005

Keywords: Mn ion implantation * polymers * depth profiles * RBS * TEM * AFM

Subject RIV: BG - Nuclear, Atomic and Molecular Physics, Colliders

Impact factor: 1.186, year: 2013

Permanent link: <http://hdl.handle.net/11104/0233767>

- [WOS](#)
- [DOI](#)

0429899 - UJF-V 2015 RIV US eng J - Journal Article

McCleskey, M. - Mukhamedzhanov, A. M. - Trache, L. - Tribble, R. E. - Banu, A. - Eremenko, V. - Goldberg, V. Z. - Lui, Y. W. - McCleskey, E. - Roeder, B. T. - Spiridon, A. - Carstoiu, F. - Burjan, Václav - Hons, Zdeněk - Thompson, I. J.

Determination of the asymptotic normalization coefficients for C-14 + n <-> C-15, the C-14(n,gamma)C-15 reaction rate, and evaluation of a new method to determine spectroscopic factors.

Physical Review. C. Roč. 89, č. 4 (2014), 044605. ISSN 0556-2813

R&D Projects: GA MŠk(CZ) LH11001

Institutional Support: RVO:61389005

Keywords: capture reactions * cross-section * asymptotic normalization coefficient

Subject RIV: BG - Nuclear, Atomic and Molecular Physics, Colliders

Impact factor: 3.881, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234886>

- [WOS](#)
- [DOI](#)

0428399 - UJF-V 2015 RIV US eng J - Journal Article

Mikula, Pavol - Vrána, Miroslav - Pilch, Jan - Seong, B.S. - Woo, W. - Em, V.

Neutron diffraction studies of a double-crystal (plus n,-m) setting containing a fully asymmetric diffraction geometry of a bent perfect crystal with output beam expansion.

Journal of Applied Crystallography. Roč. 47, APR (2014), s. 599-605. ISSN 0021-8898

R&D Projects: GA MŠK LM2010011; GA ČR(CZ) GA14-36566G

Institutional Support: RVO:61389005

Keywords: neutron diffraction * diffractometer * silicon crystal

Subject RIV: BM - Solid Matter Physics & Magnetism

Impact factor: 3.950, year: 2013

Permanent link: <http://hdl.handle.net/11104/0233742>

- [WOS](#)
- [DOI](#)

0429048 - UJF-V 2015 RIV GB eng J - Journal Article

Osinga, J. M. - Ambrožová, Iva - Pachnerová Brabcová, Kateřina - Akselrod, M. S. - Jäkel, O. - Davidková, Marie - Greilich, S.

Single track coincidence measurements of fluorescent and plastic nuclear track detectors in therapeutic carbon beams.

Journal of Instrumentation. Roč. 9, APR (2014), P04013. ISSN 1748-0221

Institutional Support: RVO:61389005

Keywords: instrumentation for heavy-ion therapy * particle tracking detectors * solid-state detectors * heavy-ion detectors * hybrid detectors

Subject RIV: BG - Nuclear, Atomic and Molecular Physics, Colliders

Impact factor: 1.526, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234236>

- [WOS](#)
- [DOI](#)