

Contents

Vol. 71, No. 12, 2008

Simultaneous English language translation of the journal is available from Pleiades Publishing, Ltd.
Distributed worldwide by Springer. *Physics of Atomic Nuclei* ISSN 1063-7788.

Nuclei

Experiment

- Angular Correlations in Emission of Prescission Neutrons from ^{235}U Fission Induced by Slow Polarized Neutrons
G. V. Danilyan, T. Wilpert, P. Granz, V. A. Krakhotin, F. Mezei, V. V. Novitsky, V. S. Pavlov, M. V. Russina, and P. B. Shatalov 2003
-

Theory

- Impact of Non-Markovian Effects on the Fission Rate and Time
A. E. Gegechkori, Yu. A. Anischenko, P. N. Nadtochy, and G. D. Adeev 2007
- New Approximation of the Energy Dependences of Total Cross Sections for Proton-Induced Fission of Actinide Nuclei
Yu. A. Chestnov 2018
- P -Odd and P -Even Correlations for Third Particles in Ternary Fission
V. E. Bunakov, S. G. Kadmsky, and L. V. Titova 2030
- Deuteron-Proton Elastic Scattering at Intermediate Energies
N. B. Ladygina 2039
- Application of a Two-Step Dynamical Model to Calculating Properties of Fusion-Fission Reactions
G. I. Kosenko, F. A. Ivanyuk, V. V. Pashkevich, and D. V. Dinner 2052
- Critical Temperature for the Nuclear Liquid-Gas Phase Transition (from Multifragmentation and Fission)
V. A. Karnaukhov, H. Oeschler, A. Budzanowski, S. P. Avdeyev, A. S. Botvina, E. A. Cherepanov, W. Karcz, V. V. Kirakosyan, I. Skwirzyńska, and E. Norbeck 2067
-

Elementary Particles and Fields

Experiment

- Study of $K^\pm \rightarrow e^\pm \nu \pi^0$ Decays at the KMN Setup
G. A. Akopdzhanov, V. B. Anikeev, V. A. Bezzubov, I. A. Vasilyev, Yu. V. Gilitsky, S. N. Gurzhiev, S. P. Denisov, A. A. Durum, S. A. Zvyagintsev, A. V. Kozelov, E. A. Kozlovsky, V. M. Korablev, V. I. Koreshev, V. I. Kurbakov, V. V. Lipaev, V. A. Onuchin, A. M. Rybin, Yu. M. Sapunov, M. M. Soldatov, D. A. Stoyanova, K. I. Trushin, A. A. Schukin, and V. I. Yakimchuk 2074
-

Theory

- p_t -Multiplicity Correlations in a Multi-Pomeron Exchange Model with String Collective Effects
N. Armesto, D. A. Derkach, and G. A. Feofilov 2087

**Proceedings of the Conference “Physics of Fundamental Interactions”
held at the Session of Nuclear Physics Section, General Physics Department,
Russian Academy of Sciences,
Institute of Theoretical and Experimental Physics (ITEP), Moscow, Russia
November 19–23, 2007***

Nuclei

Experiment

Studying of Hypernuclei with Nuclotron Beams

*A. V. Averyanov, S. A. Avramenko, V. D. Aksinenko, M. Kh. Anikina, S. N. Bazylev,
V. P. Balandin, Yu. A. Batusov, Yu. A. Belikov, Yu. T. Borzunov, O. V. Borodina,
A. I. Golokhvastov, L. B. Golovanov, C. Granja, A. B. Ivanov, Yu. L. Ivanov,
A. Yu. Isupov, Z. Kohout, A. M. Korotkova, A. G. Litvinenko, J. Lukstiņš,
A. I. Malakhov, L. Majling, O. Majlingova, P. K. Manyakov, V. T. Matyushin,
I. I. Migulina, G. P. Nikolaevsky, O. B. Okhrimenko, A. N. Parfenov, N. G. Parfenova,
V. F. Peresedov, S. N. Plyashkevich, S. Pospišil, P. A. Rukoyatkin, I. S. Saitov,
R. A. Salmin, V. M. Slepnev, I. V. Slepnev, M. Solar, B. Sopko, V. Sopko,
E. A. Strokovsky, V. V. Tereshchenko, A. A. Feshchenko, T. Horazdovsky, D. Chren,
Yu. A. Chencov, and I. P. Yudin*

2101

Studying of the Neutron Halo Structure
in Quasi-Free Proton Scattering from ${}^6\text{He}$ Halo Nucleus

E. S. Konobeevski, G. E. Belovitsky, A. V. Stepanov, V. P. Zavarzina, and S. V. Zuev

2110

Elementary Particles and Fields

Experiment

The First Year at the Large Hadron Collider

A. M. Zaitsev

2115

Investigation of the Decay $\eta' \rightarrow 3\pi^0$ with the GAMS-4 π Spectrometer

*A. M. Blik, A. M. Gorin, S. V. Donskov, V. N. Kolosov,
A. A. Lednev, V. A. Lishin, Yu. V. Mikhailov, V. A. Polyakov,
V. D. Samoylenko, A. E. Sobol, V. P. Sugonyaev, G. V. Khaustov*

2124

Comparative Analysis of the Narrow Resonances

*V. V. Vladimirovsky, V. K. Grigor'ev, I. A. Erofeev, O. N. Erofeeva, A. P. Zaitsev,
Yu. V. Katinov, V. I. Lisin, V. N. Luzin, V. N. Nozdrachev, V. V. Sokolovskiy,
E. A. Fadeeva, and Yu. P. Shkurenko*

2129

Comment on the A Dependence of Quasielastic Deuteron Knockout from Nuclei

*B. M. Abramov, Yu. A. Borodin, S. A. Bulychjov, I. A. Dukhovskoi, A. P. Krutenkova,
V. V. Kulikov, M. A. Martemianov, M. A. Matsuk, and E. N. Turdakina*

2138

*Beginning of the publication. For its end, see *Phys. At. Nucl.* **72**, nos. 1–3 (2009).

Elliptic Flow of Particles in Heavy-Ion Collisions and Possibility
of Its Observation at the LHC Energies

*V. L. Korotkikh, I. P. Lokhtin, S. V. Petrushanko,
L. I. Sarycheva, A. M. Snigirev, G. Kh. Eyyubova*

2142

Theory

Cosmology and Neutrino Properties

A. D. Dolgov

2152

Neutrino Magnetic Moment and Shock-Wave Revival in a Supernova Explosion

A. V. Kuznetsov and N. V. Mikheev

2165

Future Publications

2169

Author Index to Volume 71, 2008

2171

Subject Index to Volume 71, 2008

2185
