

Volume 70, Number 5, 2006

Proceedings of the Fifty-Fifth International Conference on Nuclear Physics "Frontiers in the Physics of Nucleus"

E.P. Grigoriev 0 ⁺ and 0 ⁻ States in ¹⁵⁸ Gd	715
S.N. Fadeev and K.A. Gridnev Solution of Inverse Problem for Scattering of α -Particles with Energy $E_{\text{lab}} = 1370$ MeV	725
Yu.A. Shitov (NEMO Collaboration) Search for Neutrinoless Double Beta Decay in NEMO-3 and SUPERNEMO Experiments	731
V.A. Plujko, O.A. Bessheiko, L.A. Golinka-Bessheiko, O.I. Davidovskaya, I.N. Kadenko, and R.V. Ermolenko Comparison and Testing of Methods for $E1$ Radiative Strength Function.....	739
G.E. Belovitsky, E.S. Konobeevsky, V.P. Zavarzina, S.V. Zuev, N.G. Polukhina, N.I. Starkov, A.B. Aleksandrov, S.M. Luk'yanov, and Yu.G. Sobolev Selection of Charged-Particle Trajectories in Nuclear Photoemulsion	744
G.E. Belovitsky, E.S. Konobeevsky, A.V. Stepanov, V.P. Zavarzina, S.V. Zuev, N.G. Polukhina, N.I. Starkov, A.B. Aleksandrov, S.M. Luk'yanov, and Yu.G. Sobolev Study of Halo Nucleus Structure Using Two-Neutron Transfer Reaction.....	749
O.B. Abdinov, A. Kravčakova, A.A. Kuznetsov, M.K. Suleimanov, A.S. Vodopianov, and S. Vokal Search for Signal of Percolation Cluster Formation in Nucleus-Nucleus Collisions at Relativistic Energies	756
O.V. Besspalova, I.N. Boboshin, V.V. Varlamov, B.S. Ishkhanov, and E.A. Romanovsky Information on Nuclear Structure from International Data Base: New Doubly Magic Nucleus ⁹⁶ Zr	761
O.V. Fotina, D.O. Eremenko, S.Yu. Platonov, O.A. Yuminov, M.H. Eslamizadeh, and V.A. Drozdov Temporal and Kinematic Characteristics of Nuclear De-Excitation Processes as Method for Testing Level Density Models.....	770
Yu.N. Koblik, V.P. Pikul, A.V. Khugaev, B.S. Yuldashev, P.D. Ioannou, and E.S. Flitsiyan Measurement and Analysis of Mass and Energy Distributions of Products from Thermal-Neutron Fission of ²³⁹ Pu Nuclei	774
A.V. Khugaev, Yu.N. Koblik, V.P. Pikul, P.D. Ioannou, and E.S. Flitsiyan Calculation of Proton and Neutron Distribution in Fissioning Nuclei.....	779
O.V. Besspalova, I.N. Boboshin, V.V. Varlamov, B.S. Ishkhanov, E.A. Romanovsky, and T.I. Spasskaya Global Parameters of Hartree-Fock Component of Nucleon Dispersive Optical Potential for 40 < A < 208 Nuclei in Range -65 < E < 65 MeV.....	783
O.A. Bessheiko, L.A. Golinka-Bessheiko, I.N. Kadenko, V.A. Plujko, and V.A. Zheltonozhsky Dependence of Isomeric Ratios upon Parameters of Nuclear Models.....	787
O.V. Besspalova, I.N. Boboshin, V.V. Varlamov, T.A. Ermakova, B.S. Ishkhanov, E.A. Romanovsky, T.I. Spasskaya, and T.P. Timokhina Proton Subshells of ^{50,52} Cr Nuclei	794

O.V. Bespalova, I.N. Boboshin, V.V. Varlamov, T.A. Ermakova, B.S. Ishkhanov, E.A. Romanovsky, T.I. Spasskaya, and T.P. Timokhina	
Neutron Subshell of $^{84,86,88}\text{Sr}$ Nuclei: Magic Nucleus ^{88}Sr	798
B.K. Kerimov and M.Ya. Safin	
Anapole and Neutral Weak Magnetic Moments of Proton in Elastic Electron-Proton Electroweak Scattering	802
I.E. Alekseev, E.A. Popov, V.V. Samartsev, and S.M. Kutsenko	
Propagation of γ -Rays in Periodical "Optical" Medium of ^{178}Hf with Inverse Population of Nuclear Levels	810
P.M. Krasovitsky and N.Zh. Takibaev	
Low-Energy Interaction of Channeled Particles	815
M.A. Myagkova-Romanova and L.L. Makarov	
Spherical Lattice Model Used to Calculate Nuclear Dimensions	819
G.K. Nie	
Alpha Cluster Model Based on pn-Pair Interactions	824
G.K. Nie, S.V. Artemov, and E.A. Zaporov	
Asymptotic Normalization Coefficients for ^{27}Al , ^{27}Si Mirror Nuclei and ^{28}Si Nucleus from Analysis of One-Nucleon Transfer Reactions	830
A.T. D'yachenko and O.V. Lozhkin	
Possible Evidence for Nonhadronic Degrees of Freedom in Spectra of Kaons Produced in Relativistic Nucleus-Nucleus Collisions	834
I.M. Nadzhafov, M.R. Radzhabov, and N.I. Nadzhafov	
Polarized Electron-Photon Showers in Crystals under Various Initial Conditions	837
N.A. Burkova, K.A. Zhaksybekova, and M.A. Zhusupov	
Spectroscopic Characteristics of $^6\text{Li}+n$ Cluster Channel of ^7Li Nucleus in αt Model	841–845
Proceedings of the Fifty-Fourth International Conference on Nuclear Spectroscopy and Atomic Nucleus Structure (NUCLEUS-2004)	
A.N. Vodin and I.V. Ushakov	
Isovector l -Forbidden $M1$ Transitions $2s_{1/2} \leftrightarrow 1d_{3/2}$ in Light Nuclei	846
T.V. Chuvilskaya and A.A. Shirokova	
Excitation Functions and Isomeric Ratios in Reactions $^{84}\text{Sr}(^{6(8)}\text{He}, n(3n))^{89m}\text{Zr}$ and $^{86(87)}\text{Sr}(\alpha, n(2n))^{89m}\text{Zr}$	850
T.V. Chuvilskaya and A.A. Shirokova	
Excitation of Isomers in $^{112}\text{Sn}(^{6(4)}\text{He}, 3n(n))^{115m}\text{Te}$ Reactions	854
V.S. Shpinel	
Low-Temperature Detector with Large-Area Multilayer Superconducting Absorber	857
A.S. Kachan, I.S. Kovtunenkov, I.V. Kurguz, V.M. Mishchenko, and R.P. Slabospitsky	
Resonance-Like Structure Observed in $^{22}\text{Ne}(p\gamma)^{23}\text{Na}$ Reaction	860
F.F. Karpeshin and J. da Providencia	
Electron-Ion Interaction in Atomic Clusters in Laser Radiation Field	867
N.N. Kolesnikov, S.A. Kalachev, and V.I. Tarasov	
ΔN Potential from Analysis of Hypernucleus Binding Energies and Δp Scattering	874–880