

Volume 69, Number 5, 2005

Proceedings of the Fifty-Fourth International Conference on Nuclear Spectroscopy and Atomic Nucleus Structure (NUCLEUS-2004)

V.E. Bunakov Application of statistical approach to description of recent experiments on T-odd asymmetry in ternary fission	699
S.G. Kadmsky Dynamics and coherent effects for ternary nuclear fission	702
V.E. Bunakov, S.G. Kadmsky, and L.V. Rodionova T-odd asymmetries for ternary nuclear fission with emission of nonzero-spin particles....	710
Yu.P. Gangrsky, K. Gladnishki, V.I. Zhemelik, G.V. Myshinsky, Yu.E. Penionzhkevich, and E.A. Sokol Detection of β -delayed two-neutron emission from ^{238}U photofission fragments	714
M.V. Evlanov, A.M. Sokolov, and V.K. Tartakovsky Resonant charge exchange process $p + p \rightarrow (\text{N}\Delta) \rightarrow n + \Delta^{++}$	718
V.T. Kupryashkin, A.P. Lashko, T.N. Lashko, and A.I. Feoktistov Energies of γ -transitions and ^{181}Ta levels in ^{181}Hf decay	722
A.M. Sukhvoi, V.A. Khitrov, Li Cher, and V.A. Plyujko Nuclear level density and radiative strength functions of cascade γ -transitions in decay of ^{114}Cd and ^{124}Te compound states	727
A.M. Sukhvoi, V.A. Khitrov, V.A. Bondarenko, J. Honzátko, and I. Tomandl Cascade γ -decay of ^{183}W compound state: possibilities of developing new methods for experimental study of heavy-nucleus properties below B_n	734
O.A. Bessheiko, I.N. Vishnevsky, V.A. Zheltonozhsky, I.N. Kadenko, V.M. Mazur, V.A. Plyujko, and N.V. Strilchuk Isomeric ratios and mean angular momenta for ^{238}U and ^{237}Np photofission products	745
O.A. Bessheiko, I.N. Vishnevsky, V.A. Zheltonozhsky, I.N. Kadenko, V.M. Mazur, V.A. Plyujko, and N.V. Strilchuk Study of isomeric ratios in (γn) and (γp) reactions on $^{120,122m,g}\text{Sb}$ and $^{117m,g}\text{In}$ nuclei	750
B.S. Ishkhanov, I.A. Lyutikov, and S.I. Pavlov Formation features of transmutation trajectory of Xe isotopes in intense bremsstrahlung gamma-ray beam	754
B.S. Ishkhanov, I.A. Lyutikov, and S.I. Pavlov Effect of intensity of bremsstrahlung gamma-ray spectrum on transmutation of ^{165}Ho isotope	757
O.V. Bepalova, I.N. Boboshin, V.V. Varlamov, A.V. Izotova, B.S. Ishkhanov, E.A. Romanovsky, T.I. Spasskaya, and T.P. Timokhina Proton subshells of even-even iron isotopes	763
O.V. Bepalova, I.N. Boboshin, V.V. Varlamov, T.A. Ermakova, B.S. Ishkhanov, E.A. Romanovsky, T.I. Spasskaya, and T.P. Timokhina Neutron and proton subshells of $^{112,124}\text{Sn}$ nuclei	766
F.F. Valiev Features of field of superluminal radiation source traveling over straight-line segment ...	771
K.A. Gridnev and S.N. Fadeev Optical potentials for scattering of α -particles with energy $E_{\text{lab}} = 1370$ MeV	775

Yu.A. Chestnov Mechanism for dynamic fission of ^{238}U , ^{232}Th , and ^{197}Au nuclei by protons of energy 1 GeV	780
V.V. Samarin Description of neutron transfer in heavy nucleus fusion reactions, based on nonstationary Schrödinger equation.....	785
S.G. Kadmsky and L.V. Rodionova Subthreshold photofission of even–even nuclei	793
M.A. Zhusupov, E.T. Ibraeva, and B. Prmantaeva Contribution from spin–orbit interaction to proton scattering by ^7Li nucleus	800
M.A. Zhusupov, A.Yu. Zaikin, and E.T. Ibraeva Elastic scattering of protons by ^6He nucleus in inverse kinematics.....	806
V.V. Samarin Nonstationary quantum analysis of neutron transfer dynamics in heavy-nucleus fusion reactions.....	814
G.M. Gurevich, A.L. Erzinkyan, P.-D. Eversheim, V.T. Filimonov, V. Golovko, P. Herzog, I. Kraev, A.A. Lukhanin, A.A. Belyaev, V.I. Noga, V.P. Parfenova, T. Phalet, A.V. Rusakov, N. Severijns, Yu.G. Toporov, V.N. Vyachin, and D. Zakoucki Angular distributions of α -particles emitted by oriented ^{253}Es and ^{255}Fm nuclei.....	821
L.A. Borovskaya, V.P. Verbitsky, and K.O. Terenetsky Polarizability of deuteron in electric field of nuclei.....	827
Yu.E. Kozyr Effect of $p + ^9\text{Be}$, $n + ^9\text{B}$ channels in ^4He scattering by ^6Li	833
O.K. Gorpinich, O.M. Povoroznyk, and A.A. Yachmenev First excited state of ^5He nucleus	838
O.K. Gorpinich, O.M. Povoroznyk, and A.A. Yachmenev Structure of highly excited states of ^5He nucleus.....	841
Yu.V. Orlov and L.I. Nikitina Phillips and Girard–Fuda plots in light of latest calculation results for nd-system.....	844
I.N. Boboshin, V.V. Varlamov, B.S. Ishkhanov, and S.B. Semin Unified description of energies of first isobaric analogue states in nuclei	855–858