

CONTENTS

I. Angelis: Manifestation of non-traditional magic nucleon numbers in nuclear charge radii	7
G. Balogh, I. Szabó: Stress dependent rotated magnetic field BHN measuring	13
L. Csedreki: Systematic investigation of the $^{12}C(d, p\gamma)^{13}C$ reaction around 1450 keV deuteron energy – a proposed method for accelerator energy calibration	21
L. Csige, D.M. Filipescu, J. Gulyás, M.M. Günther, D. Habs, H.J. Karwowski, A. Krasznahorkay, G.C. Rich, M. Sin, P.G. Thirolf: Photofission of light actinides induced by new generation, quasi monochromatic, highly-intense γ beams	31
Zs. Danku and F. Kun: Bursts in a fiber bundle model of creep rupture ..	43
R. Derco: Simple analytic expressions for the pole parts of double virtual correction to $e^+e^- \rightarrow 3$ partons	49
E. Fenyvesi: Examination of an edge weighted network created from data of Couchsurfing	57
P. Herczku, Z. Juhász, N. Stolterfoht, S.T.S. Kovács, R. Rcz, S. Biri and B. Sulik: Surface conductivity and charge migration on the inner capillary wall	67
J. Kovács, S. Nagy, K. Sailer: On optimization of the functional renormalization group applied to the quantized anharmonic oscillator	77
S.T.S. Kovács, P. Herczku, Z. Juhász, B. Sulik: Fragmentation of H ₂ O and CH ₄ molecules induced by 650 keV N ⁺ projectiles	87

I. Major, M. Molnar, A.J.T. Jull, M. Veres: Pre-treatment of archaeological bone samples for ^{14}C measurement in the Hertelendi Laboratory	95
G. Molnár, G. Erdélyi, G. A. Langer, A. Csík, G. Katona, L. Daróczki, M. Kis-Varga, A. Dudás, D. L. Beke: Diffusion in Pd-Cu thin films	109
G.U.L. Nagy, I. Rajta: Creation of microcapillaries by P-Beam writing using different proton energies	121
G. Pál, I. Varga, T. Kadono, and F. Kun: Effect of spatial dimension on impact fragmentation	129
A. Papp, J. Csikai: Use of neutron albedo to detect plastic explosives	137
B. Parditka: Phase growth analysis in metal silicides	151
J. Rácz, I. Nándori, J. Halász, P. F. de Châtel: Anisotropic magnetic nanoparticles - more effective hyperthermia for cancer therapy?.....	163
S.S. Shenouda, G.A. Langer, A. Csik, G.L. Katona, D.L. Beke: Investigation of solid state reactions between Ni_2S_i nanocrystalline film and Si substrate	175
L. Stuhl, A. Krasznahorkay, M. Csatlós, T. Adachi, H. Fujita, Y. Fujita, A. Algora, J. Gulyás, J. Daeven, E. Estevez-Aguado, C. J.Guess, K. Hatanaka, K. Hirota, D. Ishikawa, E. Litvinova, T. Marketin, H. Matsubara, R. Meharchand, F. Molina, H. Okamura, H.J. Ong, G. Perdikakis, B. Rubio, C. Scholl, T. Suzuki, G. Susoy, A. Tamii, J. Thies, R. Zegers, J. Zenihiro: ($^3\text{He},\text{t}$) reactions on ^{40}Ca nucleus, investigation of soft SDR resonances .	185
T.G. Tornyi, J. Gulyás, A. Krasznahorkay, M. Csatlós, L. Csige, R.A. Bark, N.A. Kondratyev, L.V. Kondratyeva: Mass distribution of the fission fragments following the decay of hyperdeformed states in ^{236}U	195
Zs. Török: Determination of beam parameters at the new in-air micro-beam setup in ATOMKI	203
R. Trencsényi: Some interesting remarks related to phase diagrams of polyphenylene structures	213