

East European Journal of Physics

Volume 5 Number 2 2018

ORIGINAL PAPERS

Chronological Products, Energy-Momentum Tensors of Scalar Fields for Particle Generations, and Indefinite Metrics Yu.V. Kulish	4
Effects of Scalar Boson in Elastic Proton-Electron Scattering A.G. Gakh	16
Approach to Evaluate the Risk of Cancer for Different Number of Tumor Suppressor Genes in the Individual M. Bondarenko, V. Knigavko, O. Zaytseva	23
Efficient Detector of Neutrons for $^9\text{Be}(\text{d},\text{n})$ Generator A.N. Dovbnya, E.L. Kuplennikov, S.S. Kandybei	27
A New Symmetry of Electroweak Lagrangian K.K. Merkotan, T.M. Zelentsova, N.O. Chudak, D.A. Ptashynskiy, V.V. Urbanovich, O.S. Potienko, V.V. Voitenko, O.D. Berezovskyi, I.V. Sharph, V.D. Rusov	35
Processes Occurring in the Polyimide Films PM-A (AS Kapton H) During the Deformation and Cooling I.S. Braude, V.G. Geidarov, Yu.M. Pogribnaya	49
Influence of Bias Potential and Substrate Orientation on Characteristics of Deposited Coating: the Role of Sputtering A.I. Kalinichenko, E.N. Reshetnyak, V.E. Strel'nitskij	54
Change Of Quality Of A Radioactive Waste Under Long Store Terms M.S. Malovytia, S.A. Pismenetskiy, G.S. Hrushch, O.P. Shchus	62
Surface Electromagnetic Waves In A Gap Between Two Left-Handed Materials V.K. Galaydych	68
Transformer Ratio Dependence on Bunch Length at Nonlinear Wakefield Excitation in Plasma by Electron Bunch with Gaussian Charge Distribution D.S. Bondar, I.P. Levchuk, V.I. Maslov, I.N. Onishchenko	72
Occurrence of Accelerating Field, Formation and Dynamics of Relativistic Electron Beam Near Jupiter V.I. Maslov, I.P. Levchuk, S. Nikonova, I.N. Onishchenko	78