Content

S.D. Bronza, A.T. Kotvytskiy Mathematical bases of the theory of N-point gravitational lenses. Part 1.	
Elements of algebraic geometry	6
Alexander Grib, Ruslan Vovk, Volodymyr Shaternik Coherent emission from a stack of long Josephson junctions based on low-temperature superconductors	28
Leonid F. Chernogor, Oleg V. Lazorenko, and Andryi A. Onishchenko Multi-fractal analysis of the gravitational waves	33
V.G. Kononenko, V.V. Bogdanov, M.A. Volosyuk, A.V. Volosyuk On role of mass-transfer crowdion mechanism in local relaxation processes	40
O.I.Kovtun, D.V.Matsokin, I.N.Pakhomova Thermoelastic stresses and their relaxation at alkali-halide single crystals hardening	44
E.S. Orel Effective renormalization of g - factors anisotropic ferromagnetic narrow-band f -d -metal	48
Yu.A. Oleynik, S.A. Saprykin Methods of determination of polytrophic effectiveness factor	
of the centrifugal supercharger	51
V. V. Fedotov Review of theory of mesocopic systems	58
V.P. Poyda, V.I. Beletskiy, V.V. Nerubenko, K.I. Bayramova, M.I. Bobrova, K.A. Minakova, A.V. Semenov, A.F. Suk, E.S. Yunash, O.N. Men'shova Nikolay Dmitrievich Pilchikov – the outstanding physicist,	
one of the founders of wireless telegraphy and the founder of radio control	64