BALTIC ASTRONOMY
An international journal

Volume 25
Number 3
2016

Contents

SELECTED PAPERS OF THE CONFERENCE
≪ MODERN STELLAR ASTRONOMY ~ 2016 ≫
2016 June 8–10, Kislovodsk, Russia

B. P. Kondratyev, E. N. Kireeva. Phase-space model of a collisionless
stellar cylinder embedded in a rotating halo ......................... 247
A. Mylläri, V. Orlov, A. Chernin, A. Martynova, T. Mylläri. Symbiotic
dynamics, mixing and entropy in the three-body problem ............ 254
V. V. Bobylev, A. T. Bajkova. Estimating the vertical disk scale height
using young galactic objects ........................................ 261
A. F. Seleznev. Kernel density estimation in the study of star clusters .. 267
S. A. Shomshekova, A. V. Kusakin, I. V. Reva. Photometric study of the
Seyfert galaxy NGC 4151 ............................................. 275
G. Dryomova, V. Dryomov, A. Tutukov. Ejection of stars with
relativistic velocities .................................................. 280
E. V. Polyachenko. Swing amplification and global modes reciprocity in
models with cusps .................................................. 288
A. D. Chernin. Gravity-antigravity interplay in the local galaxy flows .. 296
S. Yu. Gorda, A. M. Sobolev, A. P. Bisyarina, P. E. Zakharova,
E. D. Kuznetsov. Spectroscopic studies of early-type stars with the
Kourovka 1.2m telescope ........................................... 300
M. Xiang-Gruess, P. B. Ivanov, J. C. B. Papaloizou. A quasi-stationary
twisted disk formed as a result of a tidal disruption event .......... 304
O. V. Kiyaeva. Orbits of wide binaries – new possibilities ............ 310

E. O. Vasiliev, S. A. Khoperskov, A. V. Khoperskov. Molecular clouds and star formation rate in disk galaxies ........................................ 324

I. P. Kostiuk, O. K. Sil’chenko. Outer rings in early-type disk galaxies: star formation rate ......................................................... 331

B. P. Kondratyev, N. G. Trubitsyna. The tidal potential of a homogeneous torus with an elliptical section of the sleeve ............ 338