

## Table of Contents

<i>Martín E. L.</i> Exoplanet plenitude	109
<i>Milinevsky G. P., Danylevsky V. O., Grytsai A. V., Evtushevsky O. M., Kravchenko V. O., Bovchaliuk A. P., Bovchaliuk V. P., Sosonkin M. G., Goloub Ph., Savitska L. Y., Udodov E. V., Voytenko V. P.</i> Recent developments of atmospheric research in Ukraine	114
<i>Boiko A. I., Konovalenko A. A., Koliadin V. L., Melnik V. N.</i> Search of the radio emission from flare stars at decameter wavelengths	121
<i>Malov I. F., Nikitina E. B.</i> Distribution of areas of radiation generation at different frequencies in pulsar magnetospheres	125
<i>Jableka D., Zola S., Zakrzewski B., Szymanski T., Kuzmich A., de Villiers S. N., Zejda M., Koziel-Wierzbowska D.</i> Period changes of the sample of eclipsing binaries with active chromospheres	128
<i>Drozd K., Swierczynski E., Ragan E.</i> V407 Cygni – nova like outburst in symbiotic system	132
<i>Karczmarek P.</i> Binary evolution pulsating star – new evolutionary channel to produce RR Lyr-like pulsations	135
<i>Tanti K. K., Roy J., Duorah K.</i> Spectral energy distributions and age estimates of 40 massive young stellar objects	139
<i>Zakhozhay O.</i> Circumsubstellar disk SED in dependence on system parameters	143
<i>Frantseva K., Kostogryz N. M., Yakobchuk T. M.</i> Simulation of polarimetric effects in planetary system HD 189733	146
<i>Koshmak I. O., Melekh B. Ya.</i> The influence of stellar wind bubbles on the ionizing radiation field in HII regions	149
<i>Baran O. A.</i> Structure of convective flows on supergranular scales in the solar photosphere	153
<i>Allawi H., Pohjolainen S.</i> The energy sources of CME acceleration	157
<i>Paraschiv A. R., Dragomirescu D., Stan L., Talpeanu D. C., Ivan C., Radu S., Lacatus D. A., Mierla M.</i> Coronal jet contribution to the slow Solar wind flux: preliminary results	161
<i>Glubokova S. K., Chashei I. V., Tyul'bashev S. A.</i> Small-scale solar wind density turbulence spectrum from interplanetary scintillation observations	164
<i>Breuillard H., Mendzhul D. I., Agapitov O. V.</i> Effects of equatorial chorus wave normal azimuthal distribution on wave propagation	167
<i>Shubina O., Korsun P., Ivashchenko Yu.</i> Low-resolution spectrum of comet C/2004 Q2 (Machholz)	173

<i>Zaitsev S. V., Kiselev N. N., Rosenbush V. K., Velichko F. P., Kolesnikov S. V., Antonyuk K. A., Psarev V. N.</i> Polarimetric observations of the Galilean satellites near opposition in 2011	177
<i>Lacatus D. A., Paraschiv A. R., Tesileanu O.</i> Simulating peculiar X-shaped extragalactic radio sources	180
<i>Alexandrov A. N., Koval S. M., Zhdanov V. I.</i> Gravitational lens equation: critical solutions and magnification near folds and cusps	184
<i>Babiy Iu., Melnyk O., Elyiv A.</i> Chandra observations of ten galaxy clusters	188
<i>Savushkin A. A., Shlyapnikov A. A.</i> CCD photometry of some areas around the open cluster M45	191
<i>Fursiak Yu. A.</i> Digital version of the CrAO archive of spectral observations of the Sun, carried out with the KG-2 coronagraph	194
<i>Fursiak Yu. A., Shlyapnikov A. A.</i> Catalogue-atlas of photographic observations along Comet Liller's path	197
<i>Pokhvata S. M., Zhilyaev B. E., Reshetnyk V. M.</i> High-speed multicolour photometry with CMOS cameras	200
<i>Rieznik K., Reshetnyk V. M.</i> Astroclimate parameters of the Kyiv observatories	203