

### Table of Contents

<i>Sushch I. for the H.E.S.S. Collaboration</i> The Galactic sky through H.E.S.S. eyes	59
<i>Agapitov O. V., Mozer F. S., Artemyev A. V., Mourenas D., Krasnoselskikh V. V.</i> Wave-particle interactions in the outer radiation belts	68
<i>Tvardovskyi D. E., Marsakova V. I.</i> Cyclic Period Changes of $\beta$ Lyrae-type Eclipsing Variable Stars KR Cyg, V382 Cyg and BX And	75
<i>Sadova V. A., Tugay A. V.</i> The luminosity – spectral index dependence of the X-ray bright Seyfert galaxies	79
<i>Torbaniuk O.</i> A quasar sample for the Ly $\alpha$ forest studies from the Data Release 10 of the Sloan Digital Sky Survey	84
<i>Savchenko D. O., Iakubovskiy D. A.</i> Identification of the $\sim 3.55$ keV emission line candidate objects across the sky	89
<i>Prokhorenkov A. S., Kozak L. V., Lui A. T. Y.</i> Magnetosheath and solar wind turbulence processes features identification	93
<i>Prokhorenkov A. S., Kozak L. V., Lui A. T. Y., Gala I. V.</i> Diffusion processes in the transition layer of the Earth's magnetosphere	99
<i>Shastun V. V., Agapitov O. V.</i> A reconstruction method of electron density distribution in the equatorial region of magnetosphere	104

