

Research in Astronomy and Astrophysics

Vol. 23 No. 4

April 2023

CONTENTS

3D Kinematics of Classical Cepheids According to GaiaEDR3 Catalog	
<i>V. V. Bobylev and A. T. Bajkova</i>	045001
Physical Parameters of W UMa Type Contact Binaries and Their Stability of Mass Transfer	
<i>Berikol Tekeste Gebreyesus and Seblu Humne Negu</i>	045002
AstroSat Observations of the Be/X-Ray Binary XTE J1946+274 During 2018 and 2021 Outbursts	
<i>Amar Deo Chandra, Jayashree Roy and P. C. Agrawal</i>	045003
An Estimation of the Geometrical Structure of Polar Cap and Emission Property of Radio Pulsar: A Treatment from an Analytical Approach	
<i>Tridib Roy</i>	045004
Influence of Solar Activity on Precise Orbit Prediction of LEO Satellites	
<i>Jun-Jun Yuan, Shan-Shi Zhou, Cheng-Pan Tang, Bin Wu, Kai Li, Xiao-Gong Hu and Er-Tao Liang</i> ..	045005
The Variability and Radial Velocity of Planetary Nebula Central Stars	
<i>A. Ali and A. Mindil</i>	045006
Constraining the Temperature-density Relation of the Inter-galactic Medium from Analytically Modeling Ly α Forest Absorbers	
<i>Li Yang, Zheng Zheng and T.-S. Kim</i>	045007
Study of Central Intensity Ratio of Seyfert Galaxies in Nearby Universe	
<i>K. T. Vinod, C. Baheesa, S. Aswathy and C. D. Ravikumar</i>	045008
Observation of Small-amplitude Electromagnetic Cyclotron Waves in the Solar Wind	
<i>Hai-Feng Yang, Guo-Qing Zhao, Heng-Qiang Feng, Gilbert Pi, Qiang Liu, Liang Xiang, Qiu-Huan Li and Dan-Yang Ren</i>	045009
New Photometric Investigations of G-type Contact Binary TU Boo	
<i>Jing-jing Wang, Meng Guo, Lin-qiao Jiang and Bin Zhang</i>	045010
Constraints on Dark Energy from the CSST Galaxy Clusters	
<i>Yufei Zhang, Mingjing Chen, Zhonglue Wen and Wenjuan Fang</i>	045011
Analytical Study of the Co-orbital Motion in the Circular Restricted Threebody Problem	
<i>Xinhe Shen, Tao Liu and Xinhao Liao</i>	045012
Collaborative Simulation of Mechanical Structure and Control Systems of Leighton Chajnantor Telescope	
<i>Yi-Wei Yao, Wei-Rui Chen and Zheng Wang</i>	045013
Photometric Monitoring of Blazar 3C 66A with the Yunnan University Astronomical Observatory 1 m Telescope	
<i>Wei Zeng, Tao Wen, Zhen-Lu Gong, Shi Chen, Fan Wu, Hao-Yang Zhang and Ben-Zhong Dai</i>	045014
Site-testing at the Muztagh-ata Site V. Nighttime Cloud Amount during the Last Five Years	
<i>Jing Xu, Guo-jie Feng, Guang-xin Pu, Le-tian Wang, Zi-Huang Cao et al.</i>	045015
Variation of Small Scale Magnetic Fields Over a Century using Ca-K Images as Proxy	
<i>Jagdev Singh, Muthu Priyal, B. Ravindra, Luca Bertello and Alexei Pevtsov</i>	045016
Period Investigation on Two W UMa Binaries HH UMa and V1175 Her	
<i>Linfeng Chang, Liying Zhu and Fangbin Meng</i>	045017