

Name: Ali Esamdin

Professional:

Professor

Doctoral Supervisor

Education:

PhD

Contact:

aliyi@xao.ac.cn



Research Interests:

I am mainly engaged in optical time-domain astronomical research and astronomical technology research. In recent years, I have carried out observation and research on pulsating variable stars, binary stars, variables in open clusters, stellar flares and supernovae etc. by using the data from ground-based and space telescopes. I have also led the site-testing of the Muztagh-Ata site in the Pamirs plateau.

Selected Publications:

1. Astronomical seeing with DIMM and wind-speed distributions with ERA5 data at the Muztagh-Ata site on the Pamir Plateau, Jicheng Zhang, Yong Zhao*, Ali Esamdin*, et al., 2025, MNRAS, 539, Issue 3, pp. 2077-2087
2. SN 2021hpr: A Normal Type Ia Supernova Showing Excess Emission in the Early Rising Phase, Abdusamatjan Iskandar, Xiaofeng Wang*, Ali Esamdin*, et al., 2025, ApJ, 984, 160
3. Hilbert Transform Reveals Unusual Modulation in Delta Scuti Star KIC 10407873, Haozhi Wang, Ali Esamdin*, Chenglong Lv, et al., 2024, ApJ, 977, 241
4. KIC 10855535: An elegant δ Scuti pulsator with Amplitude and Phase Modulation, Li-xian Shen, Ali Esamdin*, Chenglong Lv, et al., 2024, ApJ, 977, 47

5. Optical turbulence in the atmospheric surface layer at Muztagh-ata site, Wenbo Gu, Ali Esamdin*, Chunhai Bai, et al., 2024, MNRAS, 535, 1, 1193
6. Statistical analysis of asteroseismic indices and stellar parameters of TESS-observed δ Scuti stars, Chenglong Lv, Ali Esamdin*, A. Hasanzadeh, et al., 2024, A&A, , 686, A174
7. Dual-comb spectroscopy over 100km open-air path, Jin-Jian Han, Wei Zhong, Ruo Zhao, et al., 2024, Nature Photonics, 18, 1195-1202
8. TESS Observations of Seven Newly Identified High-Amplitude Delta Stars , Chenglong Lv, Ali Esamdin*, A. Hasanzadeh, et al., 2023, ApJ, 959, 332023, ApJ, 959, 33
9. A detection of the layered structure of nearby open clusters, Hu, Qingshun; Zhang, Yu*; Esamdin, Ali*; et al., 2023, A&A, 672, A12
10. Asteroseismology of a Double mode High-amplitude δ Scuti Star TIC 448892817, Chenglong Lv , Ali Esamdin* , J. Pascual-Granado, et al., 2022, AJ, 164, 218
11. KIC 10417986: Spectroscopic Confirmation of the Nature of the Binary System with a δ Scuti Component, Feng, Guo-Jie; Esamdin, Ali*; Fu, Jian-Ning*, et al., 2022, RAA, 22:105005
12. Binary open clusters in the Gaia data, Fangfang Song*, Ali Esamdin*, Qingshun Hu, et al., 2022, A&A, 666, A75
13. KIC 3440495: A Rapidly Rotating δ Scuti- γ Doradus Hybrid Pulsator in a Binary System, Ma, Shuguo*; Esamdin, Ali*, et al., 2022, ApJ, 937, 80
14. The X-ray emission of contact binary variables within 1 kpc, Junhui Liu, Jianfeng Wu*, Ali Esamdin*, et al., 2022, A&A, 663, A115
15. KIC 5768203: A δ Sct Pulsator Modulated by Rotation and Spots, Ma Shuguo, Ali Esamdin*, et al., 2022, AJ, 164, 22
16. Frequency analysis of KIC 1573174: shedding light on the nature of HADS stars, Lv, Chenglong; Esamdin, Ali*; et al., 2022, ApJ, 932, 42L
17. Qingshun, Hu; Zhang, Yu*; Esamdin, Ali*, Decoding Morphological Evolution of Open Clusters, 2021, A&A, 656, A49
18. Spectroscopic and photometric analysis of the eclipsing binary HIP 7666 with δ

- Scuti pulsations , Feng, Guojie; Esamdin, Ali*; Fu, Jianning*; et al. , 2021 , MNRAS, 508, 529
19. SN 2017fgc: A Fast-expanding Type Ia Supernova Exploded in Massive Shell Galaxy NGC 474, Zeng, Xiangyun; Wang, Xiaofeng*; Esamdin, Ali*; et al., 2021, ApJ, 919, 49
 20. KIC 12602250: A Low-amplitude Double-mode Delta Scuti Star with Amplitude Modulation, Chenglong Lv, Ali Esamdin*, et al., 2021, AJ, 162, 48
 21. KIC 5197256 : Eclipsing Binary Containing a δ Scuti Variable Star, Chenglong Lv, Ali Esamdin*, et al., 2021, RAA, 21, 9, 224
 22. Flare Properties of A-type Stars in Kepler Data, Jian-Ying Bai & Ali Esamdin*, 2020, ApJ, 905:110
 23. Site-testing at Muztagh-ata site III: temperature inversion in surface-layer atmosphere, Jing Xu, Ali Esamdin*, Guo-Jie Feng, et al., 2020, RAA, 20 , 6, 88
 24. Site testing at Muztagh-ata site II: seeing statistics, Jing Xu, Ali Esamdin*, et al., 2020, RAA, Vol. 20 No. 6, 87
 25. Site-testing at Muztagh-ata site I: ground meteorology and sky brightness , Jing Xu, Ali Esamdin*, et al., 2020, RAA, Vol. 20 No. 6, 86
 26. An optical and X-ray study of the contact binary, BH Cassiopeia, Liu Junhui, Esamdin Ali*, et al., 2019, PASP, 131h, 4202L
 27. A double-modulation effect detected in a double-mode high-amplitude delta Scuti star: KIC 10284901, Taozhi Yang & Ali Esamdin*, 2019, ApJ, 879, 59
 28. Pulsations of the SX Phe Star BL Camelopardalis, Peng Zong, Ali Esamdin*, et al., 2019, PASP, 131f, 4202Z
 29. A Weak Modulation Effect Detected in the Light Curves of KIC 5950759: Intrinsic or Instrumental Effect? , Taozhi Yang, Ali Esamdin*, et al., 2018, ApJ, 863, 195
 30. A precursive study of the time-domain survey of the Galactic Anti-center using the Nanshan 1-meter telescope with variable stars detected”, Ma Shu-Guo ,

Esamdin Ali*, et al., 2018, Ap&SS, 363, 68

31. Pulsations of the High-Amplitude δ Scuti star YZ Bootis, Yang Tao-Zhi, Esamdin Ali*, et al., 2018, RAA, 18, 2