

**Зинченко Игорь Иванович**

официальный оппонент по диссертации Каргальцевой Н.С.

1. A Survey of High-Mass Star Forming Regions in the Line of Singly Deuterated Ammonia NH<sub>2</sub>D / E. A. Trofimova, I. I. Zinchenko, P. M. Zemlyanukha et al. // Astronomy Reports. – 2024. T. 68. – №. 8. – C. 771–789
2. Variations of the HCO+, HCN, HNC, N<sub>2</sub>H+, and NH<sub>3</sub> deuterium fractionation in high-mass star-forming regions / A.G. Pazukhin, I.I. Zinchenko, E.A. Trofimova et al. // Monthly Notices of the Royal Astronomical Society. – 2023. – T. 526. – № 3. – C. 3673-3696.
3. Fragmentation and dynamics of dense gas structures in the proximity of massive young stellar object W42-MME / N.K. Bhadari, L.K. Dewangan, L.E. Pirogov et al. // Monthly Notices of the Royal Astronomical Society. – 2023. – T. 526. – № 3. – C. 4402-4417.
4. Structure and kinematics of SH2-138-A distant hub-filament system in the outer galactic plane / K.K. Mallick, L.K. Dewangan, D.K. Ojha et al. // The Astrophysical Journal. – 2023. – T. 944. – № 2. – C. 228.
5. The methanol emission in the J1– J0 A+ line series as a tracer of specific physical conditions in high-mass star-forming regions / S.V. Salii, I.I. Zinchenko, Sh.Yu. Liu et al. // Monthly Notices of the Royal Astronomical Society. – 2022. – T. 512. – № 3. – C. 3215-3229.
6. Fragmented atomic shell around S187 H II region and its interaction with molecular and ionized gas / P. Zemlyanukha, I.I. Zinchenko, E. Dombek et al. // Monthly Notices of the Royal Astronomical Society. – 2022. – T. 515. – № 2. – C. 2445-2463.
7. H<sub>13</sub>CN–HN<sub>13</sub>C intensity ratio as a temperature indicator of interstellar clouds / A.G. Pazukhin, I.I. Zinchenko, E.A. Trofimova, C. Henkel // Astronomy Reports. – 2022. – T. 66. – № 12. – C. 1302-1310.
8. The disk-outflow system around the rare young o-type protostar W42-MME / L.K. Dewangan, I.I. Zinchenko, P.M. Zemlyanukha et al. // The Astrophysical Journal. – 2022. – T. 925. – № 1.
9. Deuterated molecules in regions of high-mass star formation / I.I. Zinchenko, A.G. Pazukhin, E.A. Trofimova et al. // Proceedings of Science. – 2022. – T. 425. – C. 038.
10. Ryabukhina O.L., Zinchenko I.I. A multiline study of the filamentary infrared dark cloud G351.78-0.54 // Monthly Notices of the Royal Astronomical Society. – 2021. – T. 505. – № 1. – C. 726-737.
11. I.I. Zinchenko, L.K. Dewangan, N.K. Bhadari et al. Alma discovery of a dual dense probably rotating outflow from a massive young stellar object G18.88MME // Monthly Notices of the Royal Astronomical Society: Letters. – 2021. – T. 506. – № 1. – C. L45-L49.

12. Е.А. Трофимова, И.И. Зинченко, П.М. Землянуха, М. Томассон  
Обзор областей образования массивных звезд в линиях дейтерированных  
молекул // Астрономический журнал. – 2020. – Т. 97. – № 3. – С. 225-241.
13. I.I. Zinchenko, S.Y. Liu, Y.N. Su et al. Dense cores, filaments, and  
outflows in the S255IR region of high-mass star formation // The Astrophysical  
Journal. – 2020. – Т. 889. – № 1. – С. 43.
14. S.Y. Liu, Y.N. Su, I.I. Zinchenko. et al. Alma view of the infalling  
envelope around a massive protostar in S255IR SMA1 // The Astrophysical  
Journal. – 2020. – Т. 904. – № 2. – С. 17.