

**Зинченко Игорь Иванович**  
официальный оппонент по диссертации Кирсановой М.С.

1. Zinchenko, I. I.; Liu, S. -Y.; Su, Y. -N. Fine structure and kinematics of the ionized and molecular gas in the jet and disk around S255IR NIRS3 from high-resolution ALMA observations, *Astronomy and Astrophysics*, v. 692, id. A181, 2024
2. Churazov, Eugene; Khabibullin, Ildar I.; Bykov, Andrei M.; Chugai, Nikolai N.; Sunyaev, Rashid A.; Utrobin, Victor P.; Zinchenko, Igor I., North Polar Spur: Gaseous plume(s) from star-forming regions  $\sim$ 3–5 kpc from the Galactic Center?, *Astronomy and Astrophysics*, v. 691, id. L22, 2024
3. Trofimova, E. A.; Zinchenko, I. I.; Zemlyanukha, P. M.; Thomasson, M., A Survey of High-Mass Star Forming Regions in the Line of Singly Deuterated Ammonia NH<sub>2</sub>D, *Astronomy Reports*, v. 68, p. 771, 2024
4. Pazukhin, A. G.; Zinchenko, I. I.; Trofimova, E. A.; Henkel, C.; Semenov, D. A. Variations of the HCO+, HCN, HNC, N<sub>2</sub>H+, and NH<sub>3</sub> deuterium fractionation in high-mass star-forming regions, *Monthly Notices of the Royal Astronomical Society*, v. 526, p. 3696, 2023
5. Mallick, Kshitiz K.; Dewangan, Lokesh K.; Ojha, Devendra K.; Baug, Tapas; Zinchenko, Igor I., Structure and Kinematics of Sh2-138-A Distant Hub-filament System in the Outer Galactic Plane, *The Astrophysical Journal*, v. 944, id. 228, 2023
6. Pazukhin, A. G.; Zinchenko, I. I.; Trofimova, E. A.; Henkel, C., H<sub>13</sub>CN-HN<sub>13</sub>C Intensity Ratio as a Temperature Indicator of Interstellar Clouds, *Astronomy Reports*, v. 66, p. 1302, 2022
7. Zemlyanukha, Petr; Zinchenko, Igor I.; Dombek, Evgeny; Pirogov, Lev E.; Topchieva, Anastasiia; Joncas, Gilles; Dewangan, Lokesh K.; Ojha, Devendra K.; Ghosh, Swarna K. Fragmented atomic shell around S187 H II region and its interaction with molecular and ionized gas, *Monthly Notices of the Royal Astronomical Society*, v. 515, p. 2445, 2022
8. Salii, Svetlana V.; Zinchenko, Igor I.; Liu, Sheng-Yuan; Sobolev, Andrej M.; Aberfelds, Artis; Su, Yu-Nung, The methanol emission in the J1 - J0 A++ line series as a tracer of specific physical conditions in high-mass star-forming regions, *Monthly Notices of the Royal Astronomical Society*, v. 512, p. 3215, 2022
9. Dewangan, L. K.; Zinchenko, I. I.; Zemlyanukha, P. M.; Liu, S. -Y.; Su, Y. -N.; Kurtz, S. E.; Ojha, D. K.; Pazukhin, A. G.; Mayya, Y. D., The Disk-Outflow System around the Rare Young O-type Protostar W42-MME, *The Astrophysical Journal*, v. 925, id. 41, 2022

10. Bhadari, N. K.; Dewangan, L. K.; Zemlyanukha, P. M.; Ojha, D. K.; Zinchenko, I. I.; Sharma, Saurabh, Probing Gas Kinematics and PDR Structure around O-type Stars in the Sh 2-305 H II Region, *The Astrophysical Journal*, v. 922, id. 207, 2021
11. Zinchenko, I. I.; Dewangan, L. K.; Baug, T.; Ojha, D. K.; Bhadari, N. K., ALMA discovery of a dual dense probably rotating outflow from a massive young stellar object G18.88MME, *Monthly Notices of the Royal Astronomical Society*, v. 506, p. L45, 2021
12. 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*, v. 505, p. 726, 2021
13. Liu, Sheng-Yuan; Su, Yu-Nung; Zinchenko, Igor; Wang, Kuo-Song; Meyer, Dominique M. -A.; Wang, Yuan; Hsieh, I.-Ta, ALMA View of the Infalling Envelope around a Massive Protostar in S255IR SMA1, *The Astrophysical Journal*, v. 904, id. 181, 2021
14. Trofimova, E. A.; Zinchenko, I. I.; Zemlyanukha, P. M.; Thomasson, M., A Survey of High Mass Star Forming Regions in the Lines of Deuterated Molecules, *Astronomy Reports*, v. 64, p. 244, 2020
15. Zinchenko, Igor I.; Liu, Sheng-Yuan; Su, Yu-Nung; Wang, Kuo-Song; Wang, Yuan, Dense Cores, Filaments, and Outflows in the S255IR Region of High-mass Star Formation, *The Astrophysical Journal*, v. 889, id. 43, 2020