

Основные публикации сотрудников ИЗМИРАН за 2017-2021 годы

1. Kuznetsov, V. D., Osin, A. I. Heliophysics: from observations to models and applications, *Physics Uspekhi*, 63, 8, 812–817 (2020). <https://doi.org/10.3367/UFNe.2019.06.038625>
2. Kuznetsov, V.D., Osin, A.I. Heat Fluxes in Collisionless Magnetohydrodynamic Shock Waves. *Geomagn. Aeron.* 60, 804–810 (2020). <https://doi.org/10.1134/S0016793220070154>
3. Kuznetsov, V.D., Osin, A.I. On the shock induced instabilities in collisionless plasma, *Phys. Lett. A*, 384, 126346 (2020). <https://doi.org/10.1016/j.physleta.2020.126346>
4. Kuznetsov, V.D., Osin, A.I. On the parallel shock waves in collisionless plasma with heat fluxes, *Phys. Lett. A*, 382, 2052–2054 (2018). <https://doi.org/10.1016/j.physleta.2018.05.029>
5. Khabarova, O.V., Sagitov, T., Kislov, R., Li, G. Automated identification of current sheets—A new tool to study turbulence and intermittency in the solar wind. *Journal of Geophysical Research: Space Physics*, 126, e2020JA029099 (2021). <https://doi.org/10.1029/2020JA029099>
6. Khabarova, O.V., Malandraki, O., Malova, H. et al. Current Sheets, Plasmoids and Flux Ropes in the Heliosphere. Part I. 2-D or not 2-D? General and Observational Aspects, *Space Sci Rev* 217, 38 (2021). <https://doi.org/10.1007/s11214-021-00814-x>
7. Khabarova O., Zharkova V., Xia Q., Malandraki O. E. Counterstreaming strahls and heat flux dropouts as possible signatures of local particle acceleration in the solar wind, *The Astrophysical Journal Letters*, 894, L12 (2020). <https://doi.org/10.3847/2041-8213/ab8cb8>
8. Khabarova, O.V., Obridko, V. N., Kislov, R.A., Malova, H.V., Bemporad, A., Zelenyi, L. M., Kuznetsov, V.D., Kharshiladze, A.F. Evolution of the solar wind speed with heliocentric distance and solar cycle. Surprises from Ulysses and unexpectedness from observations of the solar corona. *Plasma Physics Reports*, 2018, 44, 9, 840–853 (2018). <https://doi.org/10.1134/S1063780X18090064>
9. Khabarova, O.V., Zank, G.P. Energetic Particles of keV–MeV Energies Observed near Reconnecting Current Sheets at 1 AU, *The Astrophysical Journal*, 843, 1, 4 (2017). <https://doi.org/10.3847/1538-4357/aa7686>
10. Khabarova, O.V., Malova, H.V., Kislov, R.A., Zelenyi, L.M., Obridko, V.N., Kharshiladze, A.F., Tokumaru, M., Sokół, J.M., Grzedzielski, S., Fujiki, K. High-latitude conic current sheets in the solar wind, *The Astrophysical Journal*, 836, 108, 1 (2017) <https://doi.org/10.3847/1538-4357/836/1/108>
11. Kislov, R. A., Khabarova, O. V., Malova, H. V. Quasi-stationary Current Sheets of the Solar Origin in the Heliosphere, *The Astrophysical Journal*, 875, 1 (2019). <https://doi.org/10.3847/1538-4357/ab0dff>
12. Chertok, I. M., Belov, A. V., Abunin, A. A. Solar eruptions, Forbush decreases, and geomagnetic disturbances from outstanding active region 12673. *Space Weather*, 16, 1549–1560 (2018). <https://doi.org/10.1029/2018SW001899>
13. Chertok, I.M., Grechnev, V.V., Abunin, A.A. An Early Diagnostics of the Geoeffectiveness of Solar Eruptions from Photospheric Magnetic Flux Observations: The Transition from SOHO to SDO. *Sol Phys* 292, 62 (2017). <https://doi.org/10.1007/s11207-017-1081-8>