

List of Publications

Major Contributions

- Jan 2024 | *The infalling elliptical galaxy M89: the chemical composition of the AGN disturbed hot atmosphere*
Kara S., **Pišek T.**, Protušová K., Breuer J.-P., Werner N., Mernier F., Ercan E. N.: MNRAS, 528, 1500-1516
- Nov 2023 | *CADET: pipeline for detection of X-ray cavities in hot galactic and cluster atmospheres*
Pišek T., Werner N., Topinka, M., Simionescu A.: MNRAS, 527, 3315-3346
- Sep 2022 | *The relation between accretion rate and jet power in early-type galaxies with thermally unstable hot atmospheres*
Pišek T., Werner N., Grossová R., Topinka M., Simionescu A., Allen S. W.: MNRAS, 517, 3682-3710

Contributions

- Oct 2025 | *Compact stellar systems hosting an intermediate-mass black hole: Magnetohydrodynamic study of inflow-outflow dynamics*
Labaj M., Ressler S. M., Zajaček M., **Pišek T.**, Ripperda B., Peißker F.: A&A, 702, A233
- Sep 2025 | *The thermodynamic structure and large-scale structure filament in MACS J0717.5+3745*
Breuer J.-P., Werner N., **Pišek T.**, Mernier F., Umetsu K., Simionescu A., Devlin M., Di Mascolo L., Dibblee-Barkman T., Dicker S., Mason B. S., Mroczkowski T., Romero C., Sarazin C. L., Sievers J.: accepted to A&A
- Jul 2025 | *X-ray investigation of the remarkable galaxy group Nest200047*
Majumder, A., Simionescu, A., **Pišek, T.**, Brienza, M., Churazov, E., Khabibullin, I., Gastaldello, F., Botteon, A., Röttgering, H., Brüggén, M., Lyskova, N., Rajpurohit, K., Sunyaev, R. A., Wise, M. W.: A&A, 699, A375
- Feb 2025 | *MeerKAT discovery of gigahertz radio emission extending from Abell 3017 towards Abell 3016*
Hu D., Werner N., Xu H., Zheng Q., Breuer J.-P., Wu L., Duchesne S. W., van Weeren R. J., Sun M., Zhang C., Johnston-Hollitt M., Shan H., Guo Q., Zhu Z., Wang J., Gu J., Zhao Y., Siew H., Mao J., Zhang Z., **Pišek T.**: A&A, 694, A320
- Feb 2025 | *The bulk motion of gas in the core of the Centaurus galaxy cluster*
XRISM Collaboration [including **Pišek T.**]: *Nature*, 638, 365-369
- Nov 2024 | *ICECUBE AGN neutrino candidate PKS 1717+177: dark deflector bends nuclear jet*
Britzen S., Kovačević A. B., Zajaček M., Popović L. Č., Pashchenko I. N., Kun E., Pánis R., Jaron F., **Pišek T.**, Tursunov A., Stuchlík Z.: MNRAS, 535, 2742-2762
- Oct 2023 | *Ram-pressure stripped radio tail and two ULXs in the spiral galaxy HCG 97b*
Hu D., Zajaček M., Werner N., Grossová R., Jáchym P., Roberts I. D., Ignesti A., Kenney J. D. P., **Pišek T.**, Breuer J.-P., Shimwell T., Tasse C., Zhu Z., Wu L.: MNRAS, 527, 1062-1080
- Feb 2022 | *Very Large Array Radio Study of a Sample of Nearby X-Ray and Optically Bright Early-type Galaxies*
Grossová R., Werner N., Massaro F., Lakhchaura K., **Pišek T.**, Gabányi K., Rajpurohit K., Canning R. E. A., Nulsen P., O'Sullivan E., Allen S. W., Fabian A.: ApJ, 258, 30

Submitted & Prepared Publications

2025	<p><i>A XRISM view of chemical enrichment in the Centaurus cluster: I. Average chemical composition and supernova nucleosynthesis yields</i> XRISM Collaboration [including Plšek T.]: to be submitted to A&A</p>
2025	<p><i>XRISM reveals a uniform metal distribution in the hot intracluster medium of the Centaurus galaxy cluster</i> Fukushima K., Mernier F., Kondo M., Sato K., Matsushita K., Simionescu A., Breuer J.-P., Fukazawa Y., Fujimoto R., Hatsukade I., Hosogi K., Loewenstein M., Majumder A., Nakazawa K., Plšek T., Sun M., Urata M., Werner N., Yamasaki N.Y., and Fujita Y.: to be submitted to PASJ</p>
2025	<p><i>Missing metals in the core of the Centaurus cluster</i> Plšek T., Werner N., Simionescu N., Mernier F, TBD...: to be submitted to MNRAS</p>
Nov 2025	<p><i>IceCube candidate neutrino emitter PKS 1413+135 is gravitationally lensed on pc-scales</i> Britzen S., Zajaček M., Fendt C., Best H., Jaron F., Pashchenko I.N., Plšek T., and Seidel G.: submitted to MNRAS</p>
Mar 2025	<p><i>Gravitationally lensed supermassive binary black hole in IceCube AGN Neutrino candidate PKS 2233-148</i> Britzen S., Kovačević A.B., Popović L.Č., Kun E., Zajaček M., Jaron F., Plšek T., Pashchenko I.N., Pánis R., and Stuchlík Z.: submitted to A&A</p>