

MSCA PF HOSTING OFFER 2026 – CSFK, KONKOLY STARFORMATION RG

Name of the host institution	HUN-REN Research Centre for Astronomy and Earth Sciences, Konkoly Thege Miklós Astronomical Institute, https://konkoly.hu/en
Name of the supervisor	Ágnes Kóspál, https://konkoly.hu/en/staff-members/kospal-agnes
Organisational Unit / Research Group	Konkoly Space Astronomy, Planet and Star Formation Group, https://starformation.konkoly.hu/
Research Team	<p>A kutatócsoportot alkotó személyek felsorolása:</p> <ul style="list-style-type: none"> - Ágnes Kóspál, accretion variability, eruptive young stellar objects, substructures of planet-forming disks, debris disks, optical, infrared, and millimeter techniques, interferometry - Péter Ábrahám, accretion phenomena, debris disks, young stellar object variability, infrared interferometry, infrared space astronomy - Claire Lykou, protoplanetary and post-AGB disks, eruptive young stars, evolved stars (AGB, post-AGB, pPNe, planetary nebulae), infrared interferometry (VLT, aperture masking), interstellar dust - Gábor Marton, time series analysis, machine learning, statistical classification of infrared sources, distribution analysis of young stellar objects - Attila Moór, debris disks, young moving groups, infrared astronomy - Zsófia Nagy, physics and chemistry of star-forming regions and protostars, photometry and spectroscopy of eruptive young stars, follow-up of Gaia alerts - Zsolt Regály, numerical modeling of protoplanetary disks, vortex-aided planet formation, planetary migration, debris disks - József Varga, substructures in planet-forming disks, circumstellar dust composition, mid-infrared interferometry <p>Projects (completed or ongoing) carried out by the research group:</p> <ul style="list-style-type: none"> - SACCRED ERC StG project (closed) - Star formation in space and time NKKP ADVANCED project (ongoing) - New insights in star and planet formation Chinese-Hungarian bilateral project (ongoing)
Project experiences (EU / international)	<ul style="list-style-type: none"> - ERC StG 716155 SACCRED, 2017 – 2023 - H2020 101004719 OPTICON RadioNet Pilot, 2021 – 2025 - H2020 101004141 Nemesis, 2021 – 2025 - EU COST Action CA18104 MW-GAIA, 2019 – 2023 - EU COST Action CA22122 PLANETS, 2023 – 2027

	<ul style="list-style-type: none"> - ESA PRODEX 4000129910, 4000132054, Improving classification of Young Stellar Transients with Gaia Alerts, 2020 – 2027 - Participants in two MSCA-DN proposals
Research Interests	<p>The dazzling variety of exoplanetary systems has its origin in the circumstellar disk that forms planets and feeds material to the protostar. The full understanding of disk physics and terrestrial planet formation requires a multi-scale, multi-wavelength, multi-epoch approach. We use the unique capabilities of the James Webb Space Telescope combined with infrared interferometry using the MATISSE instrument on ESO's Very Large Telescope, and other world-class optical, infrared, and millimeter instruments to study planet-forming disks. On-going projects include in-depth studies of individual disks and statistical analyses of larger samples to understand the diversity of morphological, mineralogical, and chemical properties of planet-forming disks.</p>
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