

## Microlensing with exquisite astrometry

*Wednesday, 17 January 2024 13:00 (20 minutes)*

Microlensing is a well-established tool to detect and study the populations of compact objects in our Galaxy, including black holes, low-mass stars, brown dwarfs and extrasolar planets. Gaia has allowed the discovery of hundreds of microlensing events in the Galactic disk adding astrometry to the traditional photometric studies. Gaia-NIR may further increase these discoveries in regions obscured by dust. By astrometry in the central regions of the Galaxy, we may be able to detect and quantify gravitational lensing by Sgr A\* and thus characterize the mass distribution in the Galactic center.

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