

## Searching for dark matter signals with the stellar kinematics

*Wednesday, 11 September 2024 12:35 (25 minutes)*

With increasing precision of the observations of the stellar kinematics around the SMBH, tiny effects from dark matter, including its gravitational perturbation and the direct coupling with the ordinary matter may be detectable. In this two work, we search for possible evidence of the dark matter using accurate orbital measurements of the S-star around Sgr A\*.

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