Session Program

27–28 Oct 2025

ORIGINS Black Hole Days

Supermassive Black Holes & Active Galactic Nuclei

MPE, Garching, X5 1.1.18
Gießenbachstraße 1 85748 Garching

Tuesday 28 October

10:35

Supermassive Black Holes & Active Galactic Nuclei

Session | **Location:** MPE, Garching, X5 1.1.18, Gießenbachstraße 1 85748 Garching

10:35–11:00

eROSITA AGN surveys: constraints on the local population of massive black holes

Speaker
Andrea Merloni

11:00–11:15

Robust AGN and host galaxy decomposition in optical spectral fitting

Speaker
Catarina Aydar

11:15–11:30

The Search for Ice Bands of Frosty Active Galactic Nuclei

Speaker
Ms Khushboo -

11:30–11:45

Coronal gas emission - theory predicted, observationally confirmed - tracer of BH mass

Speaker
Almudena Prieto

11:45–12:00

Precision Black Hole Masses at Cosmic Noon

Speaker
Taro Shimizu

12:00

13:10

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13:10–13:25

Elusive Plunges and Heavy Intermediate-mass-ratio Inspirals from Single and Binary Supermassive Black Holes

Speaker
Lazaros Souvaitzis

13:25–13:40

Ultramassive Black Holes at z < 0.1

Speaker
Stefano de Nicola

13:40–13:55

The fine-tunning challenges of AGN feedback from galaxy groups to massive clusters

Speaker
Justo Gonzalez

13:55–14:10

Supermassive black hole spin evolution in cosmological simulations

Speaker
Luca Sala

14:10

14:30

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14:30–14:55 **Modelling the BH-galaxy connection in cosmological simulations**

Speaker
Volker Springel

14:55–15:10 **Multiphase gas reservoirs around z~3 quasars and the impact of feedback from galaxy to halo scales**

Speaker
Jelena Ritter

15:10–15:25 **Photometric redshifts for quasars in S-PLUS**

Speaker
Raquel Ruiz Valença

15:25–15:40 **Spatially resolving the broad line region in a QSO at z=4**

Speaker
Ric Davies

15:40–15:55 **Formation of massive seed BHs in the early universe**

Speaker
Sunmyon Chon

15:55

16:15

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16:15–16:30 **The Dichotomy in the Nuclear and Host Galaxy Properties of High-redshift Quasars**

Speaker
Ruancun Li

16:30–16:45 **Accelerating Lensed Quasar Discovery in Euclid with Self-Supervised Learning**

Speaker
Dr Irham Taufik Andika

16:45–17:00 **Radiative Transfer Effects on Hydrogen Balmer Lines in Little Red Dots and Their Impact on the Black Hole Mass Estimates**

Speaker
Seok-Jun Chang

17:00–17:15 **Multiple black holes in high-redshift galaxies with JWST/NIRSpec-IFS**

Speaker
Hannah Übler

17:15