



Rome

Joint Astrophysics Colloquia

Chasing the Light: Shadowing, Collimation, and the Rapid Growth of Infant Black Holes

Observations with the James Webb Space Telescope (JWST) have uncovered a substantial population of high-redshift broad-line active galactic nuclei (AGNs) characterized by moderate luminosities, weak X-ray emissions, and faint high-ionization lines, challenging conventional models of AGN activity. In this talk I will propose that these sources are accreting at super-Eddington rates, and discuss how such accretion flows, shaped by thick disk geometries and anisotropic radiation fields, may provide new insights into black hole growth in the early Universe.



Piero Madau

UC Santa Cruz

Wednesday 18 June 2025 time 14:30 CEST

Join in person at INAF - Osservatorio Astronomico di Roma , Aula Gratton
or online on Google Meet <http://meet.google.com/zev-pdvv-gku>

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