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Accretion flow properties through ML modeling

Monday, 16 February 2026 15:15 (45 minutes)

this lecture illustrates how we can build an AI-driven framework that reconstructs accretion flow transfer functions, SMBH physical parameters, and red-noise variability directly from AGN light curves without assuming stationarity or predefined parametric models. We will show how a data-riven approach allows to infer accretion flow structure and variability mechanisms across diverse AGN populations, enabling scalable characterization of SMBH accretion across millions of AGN in upcoming large time-domain surveys.

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