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Feeding the Storm: Probing the Power and Impact of Black Hole Winds

Tuesday, 17 February 2026 11:30 (45 minutes)

Content: the lecture will focus on the most extreme forms of AGN feedback: ultra-fast outflows (UFOs), highly ionized winds moving at relativistic speeds, exploring the physical processes that launch and accelerate these winds, the diagnostics provided by high-resolution X-ray spectroscopy, and the modeling techniques used to interpret their properties. Special attention will be given to recent results from XRISM, which reveal complex multi-velocity structures and rich absorption features. Finally, we will discuss the implications of UFOs for galaxy evolution and the challenges that remain for theory and observation.

Presenter: Prof. TOMBESI, F.