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Studies on Accretion Dynamics around a black hole in Active Galactic Nuclei (AGN): Effects of galactic potentials.

In this work, we present a detailed study and a complete analytical investigation of the critical behavior of the accretion flow and the nature of the phase trajectories corresponding to the transonic accretion in the context of these massive elliptical galaxies by incorporating the effect of entire gravitational potential of the host galaxy in the presence of cosmological constant.

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