

# **Towards an Improved Model for Dynamical Friction on SMBHs**

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Supermassive black holes experience dynamical friction, a drag force caused by momentum exchange with the surrounding medium of stars, dark matter, and gas. In this study, we investigate dynamical friction on massive black holes in depth, including testing a commonly used analytic model based on Chandrasekhar's 1943 study. Our goal is to develop a functional subgrid model that can be incorporated into cosmological simulations.

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**Session Classification:** Poster Prizes & closing