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Probing UV scales with Classical Black Holes

Tuesday 8 July 2025 13:48 (17 minutes)

I will outline how large classical BPS black hole solutions which feature an attractor mechanism can be used to probe large distances in moduli space at the horizon. I will show how these classical 2-derivative solutions seem to know about UV scales such as the species scale and the KK scale, in contrast with standard "EFT" reasoning. I will then explain that this is possible only because of the lack of cosmological moduli stabilisation. I will with comments on the implications of this for black holes in our universe and the fuzzball proposal.

Presenter: DELGADO, Matilda

Session Classification: Parallel Session 1