ID de Contribution: **209**   Type: **Non spécifié**

Dilatonic (A)dS Black Holes and the Weak Gravity Conjecture

jeudi 2 juin 2022 14:20 (20 minutes)

The Weak Gravity Conjecture (WGC) can be obtained in flat space-time from the condition of existence of horizons for Reissner-Nordström black holes. I plan to report on the conditions for the existence and location of horizons for some black hole solutions arising in Einstein-Maxwell dilaton theories with non-trivial dilaton potential, and comment on implications for the extension of the WGC to the corresponding theories.

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Classification de Session: Parallel session 4