

Weak Cosmic Censorship for Higher Derivative Gravity Theories

Monday, 22 November 2021 17:30 (30 minutes)

In this talk I will discuss how the weak cosmic censorship conjecture (WCCC) constrains the higher derivative gravity theories based on Wald's gedanken experiment by throwing the matter into the extremal or near-extremal black holes. We find that even though the WCCC still holds for the extremal black hole for the extremal black holes of quartic gravity theories, it can be violated for the near-extremal cases.

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