

# Higher-curvature gravities, EFTs and the Swampland

*Tuesday, 25 June 2024 17:15 (15 minutes)*

Higher-curvature corrections appear naturally as stringy corrections in the different effective actions of String Theory. In recent years this has motivated an intensive research on higher-curvature terms by themselves, beyond their fundamental origin. In this contribution, I will focus first on showing how a very special class of higher-curvature theories may be used to study  $\alpha'$  corrections in String Theory, illustrating this feature with an explicit example. Secondly, I will present how the Weak Gravity Conjecture may be used to constrain low-energy effective actions which are consistent with Quantum Gravity.

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**Session Classification:** Parallel session