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# Is M-theory emergent?

*Wednesday 25 September 2024 14:51 (17 minutes)*

In this talk, I will present recent progress in the Swampland Program, which I will briefly introduce, focusing primarily on one of its less established conjectures, usually referred to as the Emergence Proposal. This postulates that the low energy effective action of a quantum gravity theory may be obtained by integrating out light towers of states appearing in various asymptotic regions of the moduli space. I will motivate why the Emergence Proposal seems to be naturally realized in the (not yet completely understood) decompactification limit to M-theory by reviewing recent calculations of higher derivative couplings and independent arguments.

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