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Geometry and physics on the boundary of the supergravity landscape

Monday, 23 August 2021 16:00 (40 minutes)

The landscape of supergravity theories arising from string compactifications is highly constrained by the internal geometry. In this talk, I will argue that, rather than being a limitation of string model building, these geometric constraints reflect physical consistency conditions that delineate the landscape from the swampland. I will focus on constructions of 8d and 6d supergravity theories via F-theory, and discuss geometric restrictions on the possible gauge symmetries, including the global structure of the gauge group. As I will explain in the talk, the corresponding physical consistency conditions are related to (generalized) global symmetries.

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