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Walls of Marginal Stability and the Swampland Distance Conjecture

Wednesday 25 September 2019 15:00 (20 minutes)

In this talk we will investigate the Swampland Distance Conjecture in type IIB string theory compactified on K3 x T2. As conjectured one indeed finds a tower of exponentially light states using the Hodge-Deligne splitting of the middle homology in the degeneration limit. This tower, however, consists of quarter-BPS states, which can potentially decay into a pair of half-BPS states at walls of marginal stability. We investigate the presence of these walls in the context of the degenerations.

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