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The modular flavor of the Heterotic String

Tuesday 18 July 2023 15:00 (30 minutes)

Modular transformations of string theory are shown to play a crucial role as discrete flavor symmetries of the Standard Model. They include CP transformations and provide a unification of CP and traditional flavor symmetries within the framework of the eclectic flavor scheme. The unified flavor group is non-universal in moduli space and exhibits the phenomenon of “Local Flavor Unification” with enhanced flavor symmetries at the fixed points and the boundary of the fundamental domain of the modular group.

Primary author: NILLES, Hans Peter (Technische Universitaet Muenchen (DE))

Presenter: NILLES, Hans Peter (Technische Universitaet Muenchen (DE))

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