Contribution ID: **94**   Type: **Invited Talk**

Classification of left-right symmetric heterotic string vacua

Thursday 29 November 2018 15:40 (25 minutes)

Over the past few years an analysis of heterotic string vacua for different types of SO(10) subgroup models has been performed within the free fermionic string formalism. Using a process of random generation of GSO matrices, samples of models from flipped SU(5), Pati-Salam, Standard-like and, most recently, left-right symmetric models have all been classified. In this talk I will briefly describe the classification approach within the free fermionic formalism and present the key results thus far. Then I will discuss techniques beyond the random generation classification. In particular, explorations of 'fertile regions' within left-right symmetric models that are pre-selected at the SO(10) level for phenomenological favourability.

Content of the contribution

Theory

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Session Classification: Strings, branes, extra dimensions and discrete symmetries

Track Classification: [7] Strings, branes, extra dimensions and discrete symmetries