Contribution ID: **3**   Type: **not specified**

Integrable deformations of the AdS5 x S5 superstring: resolving some puzzles

Tuesday, 4 June 2019 10:30 (1 hour)

Recent explorations of the AdS5 x S5 superstring and its integrable deformations have greatly improved our understanding of integrable string sigma models. However, they have also led to a number of puzzles. In this talk we will focus on two particular deformations, the eta and lambda deformations, and their Poisson-Lie duals. In these models the symmetry algebra is q-deformed. We will review the construction of the deformed models and discuss the latest developments in the resolution of one particular puzzle: when do the deformed backgrounds solve the type IIB supergravity equations of motion. To conclude, we will recall some of the puzzles that remain unanswered.

Presenter: HOARE, Ben (ETH Zurich)

Session Classification: Seminar