Strings 2022



Contribution ID: 27

Type: Poster

## Penrose limit of MNa solution and spin chains in three-dimensional field theories

We consider the Penrose limit of the MNa solution, a theory with spontaneous breaking of calN = 1 supersymmetry in 3 dimensions, a case for which the holographic map is less understood. We compare the resulting pp wave and its string eigenstates to a sector of the theory on 5-branes reduced on  $S^3$ , and a spin chain-like system. We obtain many of the features of the pp wave analysis, but a complete matching still eludes us. We suggest possible explanations for the resulting partial mismatch, and compare against other spin chains for 3-dimensional field theories with gravity duals, like ABJM and GJV, as well as to the holographic cosmology case, in order to better understand the issues involved.

Author: NASTASE, Horatiu
Co-author: Mr BARBOSA, Marcelo (São Paulo University)
Presenter: NASTASE, Horatiu
Session Classification: Reception & Poster session