

Contribution ID: 199

Type: Oral Presentation

The Giant Graviton on AdS4xCP3

Thursday, 14 July 2011 08:45 (15 minutes)

<P>A new correspondence between type IIA string theory on AdS4×CP3 and an N=6 Super Chern-Simonsmatter theory was proposed by Aharony, Bergman, Jafferis and Maldacena (ABJM) in 2008. We construct the D4-brane giant graviton, extended and moving in the complex projective space, which is dual to a subdeterminant operator in ABJM theory. This dynamically stable configuration factorizes at maximum size into two topologically stable D4-branes (each wrapped on a different CP2 cycle) dual to ABJM dibaryons. We also mention our more recent results obtained from an analysis of small fluctuations around this CP3 giant graviton.

Level (Hons, MSc,
 PhD, other)?

Postdoctoral

Consider for a student
 award (Yes / No)?

No

Would you like to
 submit a short paper
 for the Conference
 Proceedings (Yes / No)?

No

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Session Classification: Theoretical

Track Classification: Track G - Theoretical and Computational Physics