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Type: **Oral Presentation**

The Giant Graviton on $AdS_4 \times CP^3$

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A new correspondence between type IIA string theory on $AdS_4 \times CP^3$ and an $N=6$ Super Chern-Simons-matter 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 CP^2 cycle) dual to ABJM dibaryons. We also mention our more recent results obtained from an analysis of small fluctuations around this CP^3 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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