Contribution ID: **26** Type: **not specified**

Rotating BPS M5-brane on the plane-wave background

We explicitly solve BPS equations for the bosonic theory on a single M5-brane on the plane wave background. We find that the BPS solution with a non-zero angular momentum describes a rotating ellipsoidal 5-brane, whose shape is parameterized by the angular momentum. We also discuss a possible scenario of how such a BPS solution appears in the BMN matrix model.

Presenter: YOSHIDA, Yuto

Session Classification: Poster session