



Contribution ID: 39

Type: **Parallel talk**

Supersymmetry in dynamical M-brane systems

Thursday 22 June 2017 15:00 (15 minutes)

The supersymmetry arises in certain theories of fermions coupled to gauge fields and gravity in a spacetime of eleven dimensions. The dynamical M-brane backgrounds have mainly been studied for the class of purely bosonic solutions only, but developments involving time-dependent supersymmetric solution have made it clear that one can get more information by asking what happens on dynamical brane systems. In this presentation, we show an exact supersymmetric solution of dynamical M-brane background in the eleven-dimensional supergravity and consider applications to supersymmetric breaking, dynamics of geodesic motion and black hole physics.

Presentation type

Parallel talk

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Session Classification: Parallel II