

Matrix Model for Superstring/M-theory



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Localization of the BFSS matrix model

Thursday, December 4, 2025 2:00 PM (1 hour)

We apply localization to the BFSS matrix model with specific boundary conditions in the time direction, which are related to certain scattering amplitudes in 11-dimensional M-theory. For the boundary conditions corresponding to the three-point graviton amplitude, we compute the partition function exactly using localization and show that the result correctly reproduces the expected momentum dependence of the three-point amplitude.

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Session Classification: Session