

Microscopic Theory for DM from Topological Gravity

Tuesday, 8 July 2025 16:40 (20 minutes)

From topological supergravity, we have found that the action for gravitino contains a coupling between the gravitino and a scalar field. By analogy with the Yukawa coupling, we integrate out the gravitino to obtain an effective action for this scalar field, which may furnish a potential microscopic theory for scalar dark matter.

Presenter: DENG, Jianqiao (CUHK)

Session Classification: Parallel 1