UM Physics Department

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Name: Sze Ning Mak

Title: On Off-Shell 1D, N = 4 Supersymmetric SYK-Type Models

Abstract:

Proposals are made to describe 1D, N = 4 supersymmetrical systems that extend SYK Models by starting 4D, N = 1 supersymmetric action involving chiral, tensor, and complex linear supermultiplets. It is shown that "useful inequivalence" of chiral and complex linear supermultiplets can be starkly demonstrated in actions where arbitrary n-point vertices of fermions are introduced.