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Supersymmetric Action for Multiple D0-brane System

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We present a complete action for the system of N D0-branes in flat 10D type IIA superspace. It is invariant under the rigid spacetime supersymmetry and local worldline supersymmetry (kappa-symmetry). This latter can be considered as supersymmetry of maximal 1d $SU(N)$ SYM model which is made local by coupling to supergravity induced by embedding of the center of energy worldline into the target superspace. We discuss the differences with Panda-Sorokin multiple 0-brane action and with the dimensionally reduced 11D multiple M-wave action.

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