

FROM AN $osp(32|1)$ SUPERGRAVITY TO AN M-ALGEBRA GAUGE THEORY

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ABSTRACT. Starting from an eleven-dimensional AdS supergravity which is gauge theory for the super group $osp(32|1)$, we obtain a gauge supergravity for the M-algebra through a generalization of the Wigner-Inönü contraction. This link is established at the level of the super algebras and the supersymmetric actions.

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