

Construction of the ground state of Matrix Theory: Near the Origin

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We explicitly construct a (unique) $\text{Spin}(9) \times \text{SU}(2)$ singlet state, involving only the fermionic degrees of freedom, corresponding to the supermembrane/M-theory matrix-model. Any ground state of the theory evaluated at the origin must be proportional to the state. (based on arXiv:0809.5270).

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