

## Matrix Model for Superstring/M-theory



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## Lie solutions in Lorentzian IKKT

In our previous work, we have leveraged Lie algebra structure and successfully found a new class of classical saddle in Euclidean IKKT and discuss its emerged geometry. However, to have a natural interpretation of time, one needs to consult Lorentzian signature where single negative eigenvalue in metric that contracts bosonic matrices in IKKT matrix model exists. Hence, in this work, we extend our discussion toward Lorentzian IKKT to find non-trivial classical saddles using Lie algebra.

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