

# **Solving the sign problem in the IKKT model and the real-time quantum evolution by the generalized Lefschetz thimble method**

*Thursday, 8 December 2022 11:20 (40 minutes)*

I report on recent developments in the generalized thimble method based on the Hybrid Monte Carlo algorithm using backpropagation. In particular, I discuss interesting results for the IKKT matrix model and the real-time evolution in quantum mechanics.

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**Session Classification:** Invited talk