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Complex Langevin Simulations of Low-dimensional Supersymmetric Quantum Field Theories

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Using complex Langevin dynamics, we probe the possibility of dynamical breaking of supersymmetry in a class of low-dimensional N=2 supersymmetric quantum field theories with complex potentials. We conclude that complex Langevin dynamics can reliably predict the nonperturbative breaking of supersymmetry in cases where Monte Carlo methods are unreliable.

Primary author: KUMAR (*), Arpith (IISER Mohali)
Co-author: JOSEPH, Anosh
Presenter: KUMAR (*), Arpith (IISER Mohali)
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