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θ -dependence of the massive Schwinger model

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Understanding the role of the θ parameter in QCD and its connection with the strong CP problem and axion physics is one of the major challenges for high energy theorists. Due to the sign problem, at present only the QCD topological susceptibility is well known. Using an algorithmic approach that could potentially be extended to QCD, we study as a first step the θ -dependence in the massive Schwinger model, and try to verify a conjecture of Coleman.

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