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Study of the continuum limit of the Schwinger model using Wilson's lattice formulation

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We estimate the critical point of the Schwinger model in the theta vacuum by taking the continuum limit of Wilson's lattice formulation. The decorated tensor renormalization group which has been recently proposed by Dittrich et al. is employed for numerical investigation. We compare our numerical results with those of Byrnes et al., which were derived from Kogut-Susskind's lattice formulation employing the density matrix renormalization group.

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