

Abstract Submitted  
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**Renormalization Group Analysis of the Dissipative Quantum-XY Model** CHANGTAO HOU, VIVEK AJI, CHANDRA VARMA, Univ of California - Riverside — The action for the dissipative quantum XY model has been transformed into an action for two kinds of topological excitations, vortices and warps, and has been partially analyzed. We continue further analysis of the model to find correspondences with the solution for the phase diagram and the correlation functions of the original model by quantum Monte Carlo calculations.

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