



Quantum Critical Fluctuations Leading to Strange Metals in 2D Metallic Anti-Ferromagnets, Ferromagnets and in the Cuprates

Abstract:

and d XY , a d c d c - a a , a d model for loop-current order in Cuprates. The spectral function of the quantum-critical fluctuations for this model in 2D for a range of parameters is determined by topological defects - instantons and 2D vortices; it is a separable function of space y. The a gi a fe i- i id for the fermions follow from coupling to such fluctuations.



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