Abstract Submitted
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BCS theory of a striped superconductor. MATS GRANATH, JONATAN WRDH, University of Gothenburg — We consider the BCS theory of a system with periodically modulated pair-hopping as a caricature of a a two dimensional striped superconductor. In a parameter regime relevant for the stripe ordered superconductor LBCO we find two types of near degenerate ordered states, with or without spontaneously broken time reversal symmetry. Including a weak interlayer single particle hopping in a model with staggered interlayer stripe order we estimate the 3D transition temperature of the system and calculate the resulting single particle spectral function. We explore the consequences of these states in light of the phenomenology of the putative pair density wave state in LBCO.

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