

Abstract Submitted
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Biot-Savart correlations in anisotropic superconductors KUMAR RAMAN, University of Illinois at Urbana-Champaign, VADIM OGANESYAN, Yale University, SHIVAJI SONDHI, Princeton University — We study the normal-superconducting phase transition of layered type II superconductors in the limit of very weak Josephson coupling. By extending previous renormalization group treatments we investigate the importance of interlayer Biot-Savart interactions for three dimensional correlations near the transition and the recent weak-field magnetization experiments in BSSCO.

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