

Abstract Submitted
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Dispersion of Spin Resonance mode in Yb Doped CeCoIn₅ YU SONG, Rice University, MENGSHU LIU, University of Tennessee, BENJAMIN WHITE, BRIAN MAPLE, University of California San Diego, PENGCHENG DAI, Rice University — It is commonly believed superconductivity in CeCoIn₅ has a d wave symmetry, given such symmetry the spin exciton interpretation of the spin resonance which has been widely applied to many systems where such a mode is observed, predicts a downward dispersion of the resonance mode (PRL 101, 187001 (2008)). Here we discuss our neutron scattering results on Yb doped CeCoIn₅, our results can clearly differentiate whether the resonance mode is indeed a spin exciton or if it's a magnon-like exciton as argued in another work (PRL 101, 087001 (2008)).

Yu Song
Rice University

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