

Abstract Submitted
for the MAR11 Meeting of
The American Physical Society

Effect of Cu magnetism on superconductivity at $\text{YBa}_2\text{Cu}_3\text{O}_7$ / $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ interfaces J. TORNOS, C. VISANI¹, J. GARCIA-BARRIOCANAL², C. LEON, N.M. NEMES, J. SANTAMARIA, GFMC, Departamento de Física Aplicada III, Universidad Complutense de Madrid, 28040 Madrid, Spain, M. GARCIA-HERNANDEZ, Instituto de Ciencia de Materiales de Madrid (ICMM-CSIC). 28049 Cantoblanco. Madrid, YAOHUA LIU, A. HOFFMANN, S.G.E. TE VELTHUIS, Materials Science Division, Argonne National Laboratory, Argonne, Illinois 60439, USA, J. FREELAND, Advanced Photon Source, Argonne National Laboratory, Argonne, Illinois 60439, USA, M. VARELA, S.J. PENNYCOOK, Condensed Matter Sciences Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee 37831-6031, USA — The induced magnetism at the Cu edge of cuprate manganites interfaces has been proposed to depend on interface termination. We have prepared $\text{YBa}_2\text{Cu}_3\text{O}_7$ / $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ trilayers showing Cu magnetism at both cuprate interfaces as evidenced from an XMCD experiment. This result results from the same termination occurring at both interfaces. The effect of Cu magnetism on superconductivity depression proposed by J. Salafrance and S. Okamoto is discussed.

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Date submitted: 08 Dec 2010

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