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Possibility for Direct Observation of Order Parameter Suppression in Cuprate/Manganite Spin-Injection Heterostructures¹ JOHN Y.T. WEI, NAI-CHANG YEH, Department of Physics, California Institute of Technology, RICHARD P. VASQUEZ, DONALD M. STRAYER, *Jet Propulsion Laboratory, California Institute of Technology.*

— Recently, several groups have observed critical-current suppression by spin-injection in perovskite **heterostructures** based on the high-temperature superconducting (HTSC) cuprates and the colossal magnetoresistive (CMR) **manganites**^{2,3,4}. The effect has been attributed to magnetic pair-breaking by the polarized spin-current. We will report on the possibility of **directly** observing the order-parameter suppression by scanning tunneling spectroscopy, as microscopic evidence for verifying the pair-breaking scenarios.

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John Y.T. Wei
jytwei@cco.caltech.edu
California Institute of Technology

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