

Abstract Submitted  
for the MAR10 Meeting of  
The American Physical Society

**A New STM for Spin-Resolved Atomic Scale Imaging**<sup>1</sup> E. MAIN, A. E. PIVONKA, I. ZELJKOVIC, J. E. HOFFMAN, Harvard University — We have designed and constructed a new scanning tunneling microscope system for magnetic and spectroscopic imaging in UHV. The system features a variable-temperature He flow cryostat with internal vibration damping, two-axis magnet, in situ evaporator, and in situ sample and tip transfer. Atomic-resolution test images have been achieved with the new system.

<sup>1</sup>We acknowledge support from AFOSR PECASE grant FA9550-06-1-0531, AFOSR DURIP grant FA9550-06-1-0359, and NSF Career grant DMR-0847433.

Elizabeth Main  
Harvard University

Date submitted: 20 Nov 2009

Electronic form version 1.4