Abstract Submitted
for the DAMOP16 Meeting of
The American Physical Society

Zeeman Electromagnetically Induced Transparency with crossed pump and probe beams: Small angle dependence KALEB CAMPBELL, SOMAYA MADKHALY, DILLON DE MEDEIROS, SAMIR BALI, Miami University, MACKLIN QUANTUM INFORMATION SCIENCES COLLABORATION — Progress toward undergraduate oriented experiments on image storage in room-temperature atomic vapor using Electromagnetically Induced Transparency is described. Using a scanning longitudinal magnetic field technique we diagnose and suppress stray magnetic fields and polarization impurity. Following Carvalho et al. *Phys. Rev. A* **70**, 063818 (2004) we consider the pump-probe angular dependence of the EIT signal but at much smaller angles of less than a milliradian.

Kaleb Campbell
Miami University

Date submitted: 26 Apr 2016 Electronic form version 1.4