## Abstract Submitted for the DAMOP06 Meeting of The American Physical Society

Experimental study of light storage in Rb vapor IRINA NOVIKOVA, JERONIMO MAZE, DAVID PHILLIPS, RONALD WALSWORTH, Harvard-Smithsonian — We study the propagation and storage of weak optical pulses in warm Rb vapor under conditions of electromagnetically induced transparency (EIT). We investigate the effects of various experimental parameters (such as buffer gas pressure, atomic density, etc.) on storage time and fidelity.

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