

Abstract Submitted  
for the OSS15 Meeting of  
The American Physical Society

**First Experimental Demonstration of Coherent Perfect Rotation**

MICHAEL CRESCIMANNO, CHUANHONG ZHOU, JAMES ANDREWS, Department of Physics and Astronomy, Youngstown State University — We present experimental results from a recent laboratory demonstration of coherent perfect polarization rotation (CPR) which is a conservative, reversible counterpart to coherent perfect absorption (a.k.a. the anti-laser). We conclude with a brief summary of new experiments underway that will be critical to applications of CPR in various non-reciprocal optical technologies.

Michael Crescimanno  
Department of Physics and Astronomy, Youngstown State University

Date submitted: 05 Mar 2015

Electronic form version 1.4