

Abstract Submitted
for the DAMOP09 Meeting of
The American Physical Society

Low-loss nonlinear polaritonics¹ BARRY SANDERS, University of Calgary, SERGEY MOISEEV, Kazan Physical-technical Institute, Russian Academy of Sciences, ALI KAMLI, King Khalid University — We show how to achieve low-loss giant nonlinear phase shifts between weak surface polaritons by nano-confined propagation through an electromagnetically-induced transparent medium in the vicinity of a negative-index metamaterial.

¹iCORE, NSERC, MITACS, GDC, KACST, CIFAR, RFBR

Barry Sanders
University of Calgary

Date submitted: 23 Jan 2009

Electronic form version 1.4