Abstract Submitted
for the DAMOP11 Meeting of
The American Physical Society

Harnessing modulational instability for the generation of vector solitons[1] PETER ENGELS, JIAJIA CHANG, CHRIS HAMNER, Washington State University — We investigate the formation of solitons in elongated Bose-Einstein condensates. Counterflow-induced modulational instability is introduced as an effective tool to generate vector solitons in a two-component BEC that have no analog in single-component systems. The current status of the experiment will be discussed.

[1]We acknowledge funding from NSF and ARO.

Peter Engels
Washington State University

Date submitted: 04 Feb 2011 Electronic form version 1.4