

Physics & Astronomy Colloquium

Presents

Elizabeth Donley

National Institute of Standards and Technology

Tuesday, September 26, 2017
4:10 pm, Webster Room 17

“Cold-Atoms: A Clean Platform for Compact Atomic Clocks and Sensors”

Recent work at NIST to develop atomic clocks and sensors based on laser cooling, atomic spectroscopy, and micro-electro-mechanical systems (MEMS) will be presented. The design, fabrication and performance of these instruments will be described, with an emphasis on our work to develop a laser-cooled atom-interferometer gyroscope and an atomic clock based on dark resonances. Finally, we speculate on possible future directions for laser-cooled atomic instruments.

*Please meet our guest speaker and share in refreshments,
3:45-4:10 p.m. in the foyer on floor G above the lecture hall*

Host: Dr. Peter Engels