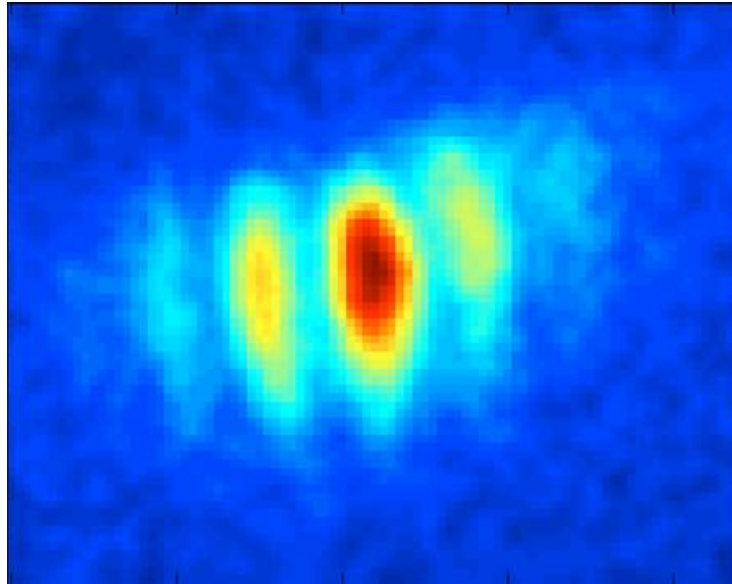


AMO Seminar



Friday, April 6, 2007

2:30 pm

Small Hall 238

Non-Standard Time & Location

Ultra-cold Matter Technology for Many-Body Physics and Interferometry

Seth A. M. Aubin

Dept. of Physics, College of William and Mary

The combination of laser cooling and evaporative cooling has led to the routine production of nano-Kelvin ultra-cold matter: atomic gases dominated by quantum statistics.

Ultra-cold atom based interferometers can be used for high-precision force sensing and fundamental physics studies. Quantum gases are also ideal for implementing novel many-body systems, in particular with ultra-cold polar molecular gases.