

AMO Seminar



*Friday, April 20, 2007
2:00 pm*

Physics conference room (Small Hall 123)

Gravity, Precision Measurements and Squeezed States of Light

Dr. Eugeny Mikhailov
The College of William&Mary

I will review the current status of the Laser Interferometer Gravitational-wave Observatory (LIGO), physics behind it, current sensitivity limits, and future upgrades. Also I will show how use of quantum optics and squeezed states of light can improve sensitivity of the gravitational-wave antenna beyond standard quantum limit.