

Seminar

Prof. Ernst Rasel

Leibniz U Hannover (for the QUANTUS-MAIUS cooperation)

Space-born Bose-Einstein condensation for precision interferometry

Friday, June 9, 2017

at 13:00 h

ESI, Boltzmann Lecture Hall

Abstract: Interferometers employing Bose-Einstein condensates will be at the heart the next generation quantum sensors, promising to improve on both, precision and accuracy. Beyond geodesy or generally Earth observation, they are explored for applications in fundamental physics such as quantum tests of the principle of equivalence. The talk will in particular report on the recent successful launch of the DLR- mission MAIUS-1 exploring methods for BEC interferometry on a sounding rocket in space.

M. Aspelmeyer

June 8, 2017