

Università degli Studi di Trieste

Dipartimento di Fisica

Seminario

Mauro Paternostro

School of Mathematics and Physics

Centre for Theoretical Atomic, Molecular and Optical Physics (CTAMOP)

Queen's University, Belfast

Friday, December 2, 2:00 PM - Lecture Room A, F Building, Dip. di Fisica – via Valerio 2 – Trieste

Alice through the looking glass (or of optics, (quantum) mechanics, and opto-mechanics)



Trying to put back mechanics into quantum mechanics, in this talk I will discuss how to optically drive mechanical systems and explore the possibility to observe quantum effects at the mesoscopic scale using opto-mechanics. I will illustrate a roadmap, based on the use of light and massive mechanical systems, aimed at the design and realisation of quantum thermal machines. Moreover, should time allow it, I will briefly discuss the possibility to infer collapse models that are alternative to the standard formulation of decoherence mechanisms through the use of opto-mechanical devices.

Organizzazione a cura di: D. Fausti, Erik Vesselli

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Everyone interested in the topic is welcome to attend

Informazioni: seminari@ts.infn.it