

COLLOQUIA

Martedì 28 febbraio 2012

ore 15:00

presso INFN - Sezione di Pisa

Largo B. Pontecorvo, 3 – Edificio C
Aula 131 (edificio C - piano terreno)

Dr.ssa Chiara Fort

European Laboratory for Nonlinear Spectroscopy (LENS)

and

Dipartimento di Fisica e Astronomia Università di Firenze

Light to produce, manipulate and probe many-body systems with ultracold bosons

Caffè e pasticcini saranno serviti alle 14:40

Abstract:

I will describe how laser light is used in current experiments to simulate and study many-body physics using ultra cold quantum gases. In particular, after a general introduction, I will report on recent experiments performed at LENS where inelastic light scattering is used to probe correlated phases produced by loading a Bose-Einstein condensate in optical lattices.