PHYSICS **COLLOQUIA** 2015/16

Gli incontri si terranno alle **ore 14:30**
nell'**aula A** del **DIPARTIMENTO DI FISICA**
via Celoria 16 | 20133 MILANO | Tel. +39 02 50317740
http://phd.fisica.unimi.it | phd@fisica.unimi.it

Strongly-correlated fermions show remarkable physical properties due to the combination of interactions, statistics and dimensionality.
The study of such systems is indeed relevant to both fundamental science and technological applications.
I will present results and future perspectives of the experimental work carried out in my laboratory at LENS, cooling binary mixtures of ^{6}Li atoms down to quantum degeneracy.
Such atomic systems are particularly interesting due to the exceptional tunability of the interactions between fermions, allowing one to study the crossover from the regime of
Bose-Einstein condensate (BEC) of tightly bound molecules to the Bardeen-Cooper-Schrieffer (BCS) state of long-range Cooper pairs.

INO-CNR e European Laboratory for Non-Linear Spectroscopy, Firenze, Italia

02**FEB**2016 | GIACOMO ROATI

ULTRACOLD ATOMS AS TUNABLE INTERACTING FERMI GASES

UNIVERSITÀ DEGLI STUDI DI MILANO
DOTTORATO DI RICERCA IN FISICA
ASTROFISICA E FISICA APPLICATA

progetto grafico: roberto perego | www.nonacaso.it