GRUPPO TEORICO
AVVISO DI SEMINARIO

Giovedì 14 giugno 2018
ore 11:00

Dipartimento di Fisica
Largo B.Pontecorvo, 3
Aula 248 - primo piano - Ed. C

Maria Piarulli
(Argonne National Laboratory)

Terrà un seminario dal titolo:
"The basic model of Nuclear Theory: from Atomic Nuclei to Neutron Stars"

Abstract: One of the major goals of nuclear theory is to explain the properties of atomic nuclei and infinite nuclear matter in a fully microscopic approach. In such an approach, which we will refer to as the basic model of nuclear theory, the nucleons - the nucleus' constituents - interact with each other via many-body (primarily, two- and three-body) effective interactions, and with external electroweak probes via effective currents describing the coupling of these probes to individual nucleons and many-body clusters of them. In this talk, I will give an overview of the phenomenological and chiral effective field theory (chiEFT) formulation of the basic model highlighting to what extent these two frameworks impact our knowledge of atomic nuclei and infinite nuclear matter.