



UNIVERSITÀ DEGLI STUDI
DI PERUGIA

COLLOQUIA DOCTORALIA

Mercoledì 5 giugno 2019 - ore 15:30

Sala Riunioni (Fisica)

Prof. Marco Mazzocco

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"Reaction Dynamics Studies at Coulomb Barrier Energies"

Abstract:

The reaction dynamics induced by light weakly-bound projectiles in the energy range around the Coulomb barrier has attracted the interest of the Nuclear Physics community for at least thirty years. In fact, light projectiles like ${}^6\text{Li}$, ${}^7\text{Li}$ and ${}^9\text{Be}$ have (total) binding energies in the range 1.5-2.5 MeV, i.e. much smaller than "standard" nuclei located along the valley of beta-stability. Being so weakly bound, there is a high probability for these nuclei to breakup in their constituent clusters while approaching a target nucleus or to trigger transfer processes of nuclear matter. Recent studies performed with these light projectiles and the perspectives for experiments to be performed with even more exotic Radioactive Ion Beams will be presented.

Tutti gli interessati sono invitati a partecipare

Il Responsabile:

Dr. S. Palmerini

Il Direttore:

Prof. Massimiliano Rinaldo Barchi