

COHERENCE 2009

Tuesday 26 may 2009

h 15.00

University of Rome “La Sapienza”

Viale Regina Elena 295 Roma Piano Terra
Laboratorio Informatica Facoltà Archivistici e Bibliotecari

Seminar

Exploding Coulomb Clusters and Nuclear Fusion

“Hot Fusion on a Desk Top”

Prof. Allan Widom
Physics Department
Northeastern University Boston MA, USA

Abstract: Among the methods presently being studied world wide to obtain clean controllable nuclear fusion as a power source, the use of pulsed laser light incident on molecular clusters is considered. Main results will be presented:

- (i) The experimental evidence of fusion events is unambiguous and reproduced in several laboratories.
- (ii) Theoretical Coulomb barrier tunnelling transitions for nuclear fusion are in very good agreement with experimental data.

Seguirà dibattito:

La fusione nucleare non-convenzionale in Italia

Interventi di: S. Bartalucci (LNF-INFN), M. Bizzarri (ASI), F. Bongiorno (Università di RomaTre), F. Celani (LNF-INFN), G. Degli Antoni (Università di Milano, AFF), L.Gamberale (Pirelli Labs), G. Gigante (Università di Roma “La Sapienza”), U. Mastromatteo (STM Mi), R.Mele (Enel), C.Messina (Siaecm), G. Quartieri (Uniludes), M. Scalia (Università di Roma “La Sapienza”), Y. Srivastava (Università di Perugia), V. Valenzi (CSB)