

Università degli Studi di Pavia

DOTTORATO DI RICERCA IN FISICA

CORSO DI SEMINARI DI INDIRIZZO NUCLEARE

A.A. 2005/2006

Martedì 10 gennaio 2006 alle ore 11.00 in Sala Riunioni il

Prof. Marco Battaglia

University of California at Berkeley and Lawrence Berkeley National Laboratory

terrà un seminario dal titolo:

**THE INTERNATIONAL LINEAR COLLIDER:
PHYSICS OPPORTUNITIES AND R&D REQUIREMENTS
FOR THE NEXT LARGE SCALE FACILITY IN
ACCELERATOR PARTICLE PHYSICS**

Abstract:

An accelerator complex able to collide electron and positron beams at energies up to 1 TeV at high luminosity has been chosen by the HEP community as the next large scale facility to promote our understanding of fundamental interaction and their relation to Cosmology beyond the first stage of exploration made possible by the LHC. The talk will review the physics scenarios which justify the choice of a 1 TeV lepton collider, the challenges set by its anticipated physics program on the performance of the detectors and the world-wide program of R&D set in place to meet these requirements.

Gli studenti di Dottorato e tutti gli interessati sono cordialmente invitati.

Titolare del Corso
Prof. Sergio P. Ratti