AVVISO DI SEMINARIO

Il giorno giovedì 16 gennaio 2014 alle ore 11,00
presso l’Area della Ricerca CNR di Pisa
Aula 44, primo piano, Edificio “A”

il Dr. Graziano VENANZONI

Laboratori Nazionali di Frascati dell' INFN, Frascati, Italy
Graziano.Venanzoni@lnf.infn.it

terrà un seminario sul tema:

The anomalous magnetic moment of the muon:
a crack in the Standard Model?

Abstract

The muon anomaly a_mun was measured to 0.54 parts per million by E821 at Brookhaven Lab, and at present there is a 3 to 4-standard deviation difference between the SM and experimental values. A new muon (g - 2) experiment, E989, is being prepared at Fermilab that will improve the experimental error by a factor of four to clarify this difference. I will review the experimental effort on E989 at Fermilab with particular emphasis on the high-precision laser calibration system which is a central component to reach this fourfold improvement in accuracy.