



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

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terrà un seminario sul tema:

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

Abstract

The muon anomaly a_μ 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.