



## ICTS Seminar

Title : Calculation of hadronic vacuum polarisation contribution to muon

g-2 from lattice QCD

: Bipasha Chakraborty, Jefferson Lab, USA Speaker

Date : Friday, September 22, 2017

Time : 2:30 PM

Venue : Nambu Discussion Room(Right), ICTS Campus, Bangalore

Abstract: I will present a novel lattice QCD calculation of the lowest order

hadronic vacuum polarisation contribution to the muon anomalous

magnetic moment. The Muon anomalous magnetic moment is one of

the very few quantities in the Standard Model (SM) of particle physics

which is both measured in experiment and calculated from theory with

impressive accuracy of sub-parts per million (ppm). Intriguingly, there

exists a tantalizing discrepancy of more than three standard deviations

between the experimental and the SM results of this quantity

providing one of the most stringent tests of the theory.

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