

_logo_small.jpg

/opt/indico/archive/2016/C8/40222322483

Contribution ID : 160

Type : **Contributed Oral**

The Fermilab Muon g-2 experiment: laser calibration system

Monday, 27 February 2017 17:00 (0:20)

Content

The anomalous muon dipole magnetic moment can be measured (and calculated) with great precision thus providing insight on the Standard Model and new physics. Currently an experiment is under construction at Fermilab (USA) which is expected to measure the anomalous muon dipole magnetic moment with unprecedented precision. One of the improvements with respect to the previous experiments is expected to come from the laser calibration system which has been designed and constructed by Italian part of the collaboration (INFN). An emphasis of this talk will be on the calibration system that is in the final stages of construction as well as the experiment which is expected to start data taking this year.

Summary

Primary author(s) : Dr. KARUZA, Marin (University of Rijeka and INFN Trieste); Dr. VENANZONI, Graziano (LNF-INFN)

Presenter(s) : Dr. KARUZA, Marin (University of Rijeka and INFN Trieste)

Session Classification : Colliders and detector integration

Track Classification : Calorimetry