

Session Program

25-30 Sept 2016



Hadronic Contributions to New Physics Searches

Muon $g-2$

Puerto de la Cruz, Tenerife, Spain
Hotel Las Aguilas, C/Doctor Barajas 19, 38400 Puerto de la Cruz, Tenerife

Thursday 29 September

09:00

Muon g-2: Overview

Session

09:00–09:35 **Muon g-2 in the standard model**

Speaker

Marc KNECHT

09:35–10:10 **Experimental prospects on muon g-2**

Speaker

Mark Lancaster

10:10–10:45 **Muon g-2 and new physics**

Speaker

Hyejung Stoeckinger-Kim

10:45

11:15

Muon g-2: Dispersive

Session

11:15–11:50 **Dispersive approach to hadronic LbL contribution in muon $g-2$**

Speaker

Marc Vanderhaeghen

11:50–12:25

Dispersion relation for hadronic light-by-light scattering and the muon g-2

Speaker

Gilberto Colangelo

12:25–13:00 **Experimental inputs for the hadronic calculations of the muon g-2**

Speaker

Yuping Guo

13:00

15:00

Muon g-2: Lattice

Session

15:00–15:35 **Lattice calculations of the hadronic contributions to the muon g-2**

Speaker

Andreas Juttner

15:35–16:10

The hadronic vacuum polarization contribution to a_μ from full lattice QCD

Speaker

Christine Davies

16:10–16:45

S4 approach to the structure of four-point functions and its applications to the LbL-scattering contribution to the muon g-2

16:45

Speaker

Gernot Eichmann

17:15

Muon $g-2$: Form Factors**Session**

17:15–17:50

Precise determination of the low-energy hadronic contribution to the muon $g-2$ from analyticity and unitarity - an improved analysis**Speaker**

Irinel Caprini

17:50–18:25

Pseudoscalar transition form factors: $(g-2)$ of the muon and pseudoscalar decays into lepton pairs**Speaker**

Pablo Sanchez-Puertas

18:25–18:45

Hadronic contribution from light by light processes in $(g-2)$ of the muon in a nonlocal quark model**Speaker**

Alexey Zhevlakov

19:00