

# **Workshop on "Flavour changing and conserving processes" 2015 (FCCP2015)**



## **Report of Contributions**

Contribution ID: 7

Type: **not specified**

## Introduction

*Thursday, 10 September 2015 08:50 (10 minutes)*

**Session Classification:** Session11

Contribution ID: 8

Type: **not specified**

## Theory review on the muon $g-2$

*Thursday, 10 September 2015 09:00 (25 minutes)*

**Presenter:** Mr MELNIKOV, Kirill (KIT)

**Session Classification:** Session11

Contribution ID: 9

Type: **not specified**

## **Status of muon g-2 experiment at FNAL**

*Thursday, 10 September 2015 09:25 (35 minutes)*

**Presenter:** Prof. HERTZOG, David (University of Washington)

**Session Classification:** Session11

Contribution ID: 11

Type: **not specified**

## **Leading-order hadronic contribution to the electron and muon $g-2$**

*Thursday, 10 September 2015 10:00 (25 minutes)*

**Presenter:** Prof. JEGERLEHNER, Fred (DESY Zeuthen)

**Session Classification:** Session11

Contribution ID: 12

Type: **not specified**

## **Perspectives on the hadronic contribution to the muon $g-2$**

*Thursday, 10 September 2015 11:10 (25 minutes)*

**Presenter:** Dr KNECHT, Marc (CNRS)

**Session Classification:** Session12

Contribution ID: 13

Type: **not specified**

## **Review of recent calculations of the hadronic vacuum polarization contribution to $a_\mu$**

*Thursday, 10 September 2015 11:35 (25 minutes)*

**Presenter:** Dr ZHANG, Zhiqing (LAL Orsay)

**Session Classification:** Session12

Contribution ID: 14

Type: **not specified**

## **Leading-order hadronic contributions to the lepton anomalous magnetic moments from the lattice**

*Thursday, 10 September 2015 12:00 (25 minutes)*

**Presenter:** Dr PETSCHLIES, Marcus (HISKP, Universität Bonn)

**Session Classification:** Session12



Contribution ID: 15

Type: **not specified**

## **VMD/HLS approach to the muon ( $g-2$ ): a solution to the tau- $e+e^-$ puzzle**

*Thursday, 10 September 2015 12:25 (25 minutes)*

**Presenter:** Mr BENAYOUN, Maurice (LPNHE Paris 6/7)

**Session Classification:** Session12

Contribution ID: 16

Type: **not specified**

## **A new approach to evaluate the leading hadronic corrections to the muon $g-2$**

*Thursday, 10 September 2015 15:00 (25 minutes)*

**Presenter:** TRENTADUE, Luca (PR)

**Session Classification:** Session13

Contribution ID: 17

Type: **not specified**

## **Recent developments in the calculation of the hadronic light-by-light contribution to the muon $g-2$**

*Thursday, 10 September 2015 15:25 (25 minutes)*

**Presenter:** Dr PROCURA, Massimiliano (University of Vienna and CERN)

**Session Classification:** Session13

Contribution ID: **18**

Type: **not specified**

## **Hadronic Light by Light corrections to $(g-2)_\mu$**

*Thursday, 10 September 2015 15:50 (25 minutes)*

**Presenter:** Prof. VANDERHAEGHEN, Marc (University Mainz)

**Session Classification:** Session13

Contribution ID: 19

Type: **not specified**

## **What does holographic QCD predicts for the light-by-light scattering contribution to $(g-2)_\mu$**

*Thursday, 10 September 2015 16:15 (25 minutes)*

**Presenter:** CAPPIELLO, Luigi (NA)

**Session Classification:** Session13

Contribution ID: 20

Type: **not specified**

## **Hadronic light-by-light contribution to $a_\mu$ : extended Nambu-Jona-Lasinio and chiral quarks models**

*Thursday, 10 September 2015 17:00 (25 minutes)*

**Presenter:** Prof. BIJNENS, Johan Bijmens (Lund University)

**Session Classification:** Session14

Contribution ID: 21

Type: **not specified**

## **Hadronic contributions to the muon anomaly in the Constituent Chiral Quark Model**

*Thursday, 10 September 2015 17:25 (25 minutes)*

**Presenter:** GREYNAT, David (NA)

**Session Classification:** Session14

Contribution ID: 22

Type: **not specified**

## **Review on gamma-gamma physics at KLOE**

*Thursday, 10 September 2015 17:50 (25 minutes)*

**Presenter:** MORICCIANI, Dario (ROMA2)

**Session Classification:** Session14



Contribution ID: 23

Type: **not specified**

## **On the precision of a data-driven estimate of the pseudoscalar-pole contribution to hadronic light-by-light scattering in the muon $g-2$**

*Thursday, 10 September 2015 18:15 (25 minutes)*

**Presenter:** Dr NYFFELER, Andreas (Harish-Chandra Research Institute, Allahabad, India)

**Session Classification:** Session14

Contribution ID: 24

Type: **not specified**

## **Hadronic light-by-light contribution to $(g-2)_\mu$ from lattice QCD**

*Thursday, 10 September 2015 18:40 (25 minutes)*

**Presenter:** LEHNER, Christoph (Brookhaven National Laboratory)

**Session Classification:** Session14

Contribution ID: 25

Type: **not specified**

## **Higher-order hadronic and heavy-lepton contributions to the muon $g-2$**

*Friday, 11 September 2015 09:00 (25 minutes)*

**Presenter:** Prof. STEINHAUSER, Matthias (KIT)

**Session Classification:** Sessione21

Contribution ID: 26

Type: **not specified**

## **Recent developments on the MSSM contribution to the muon $g-2$**

*Friday, 11 September 2015 09:25 (25 minutes)*

**Presenter:** STOCKINGER, Dominik (TU Dresden)

**Session Classification:** Sessione21

Contribution ID: 27

Type: **not specified**

## The muon $g-2$ in two-Higgs-doublet Models

*Friday, 11 September 2015 09:50 (25 minutes)*

**Presenter:** Prof. CHUN, Eung Jin Chun (Korea Institute for Advanced Study)

**Session Classification:** Sessione21

Contribution ID: 28

Type: **not specified**

## **The muon $g-2$ and degenerate supersymmetry**

*Friday, 11 September 2015 10:15 (25 minutes)*

**Presenter:** PATEL, Ketankumar Mohanlal (P)

**Session Classification:** Sessione21

Contribution ID: 29

Type: **not specified**

## **Review on measurement of the R ratio at Novosibirsk and ISR, and radiative corrections**

*Friday, 11 September 2015 15:30 (25 minutes)*

**Presenter:** Dr EIDELMAN, Simon (Budker Institute of Nuclear Physics)

**Session Classification:** Session22

Contribution ID: 30

Type: **not specified**

## **Radiative corrections and Monte Carlo generators for low energies**

*Friday, 11 September 2015 15:55 (25 minutes)*

**Presenter:** MONTAGNA, Guido (PV)

**Session Classification:** Session22



Contribution ID: **31**

Type: **not specified**

## **Review on transition form factors**

*Friday, 11 September 2015 16:20 (25 minutes)*

**Presenter:** KUPSC, Andrzej (Uppsala University)

**Session Classification:** Session22

Contribution ID: 32

Type: **not specified**

## **Pseudoscalar transition form factors: rare decays, $g-2$ , and mixing angles**

*Friday, 11 September 2015 16:45 (25 minutes)*

**Presenter:** MASJUAN, Pere (Johannes Gutenberg-Universität Mainz, Institute für Kernphysik)

**Session Classification:** Session22

Contribution ID: 33

Type: **not specified**

## **Review on Dark Photon**

*Friday, 11 September 2015 17:10 (25 minutes)*

**Presenter:** Dr CURCIARELLO, Francesca (Dipartimento di Fisica-Università di Messina)

**Session Classification:** Session22

Contribution ID: 34

Type: **not specified**

## **On the interrelationship among leptonic $g-2$ , EDMs and lepton flavor violation**

*Friday, 11 September 2015 17:55 (25 minutes)*

**Presenter:** Dr PARADISI, Paride (Padua University and INFN, Italy)

**Session Classification:** Session23

Contribution ID: 35

Type: **not specified**

## **The EDM in the g-2 experiment**

*Friday, 11 September 2015 18:20 (25 minutes)*

**Presenter:** Dr CHISLETT, Rebecca (UCL)

**Session Classification:** Session23

Contribution ID: 36

Type: **not specified**

## **Radiative mu and tau leptonic decays and the possibility to determine the tau dipole moments**

*Friday, 11 September 2015 18:45 (25 minutes)*

**Presenter:** FAEL, Matteo (Bern U.)

**Session Classification:** Session23

Contribution ID: 37

Type: **not specified**

## **Review on the fine-structure constant and the electron $g-2$**

*Friday, 11 September 2015 19:10 (25 minutes)*

**Presenter:** Prof. GUELLATI-KHELIFA, Saïda (Laboratoire Kastler Brossel CNRS-UPMC-ENS)

**Session Classification:** Session23

Contribution ID: 38

Type: **not specified**

## **Experimental review on Lepton Universality and Lepton Flavour Violation tests at the B-factories**

*Saturday, 12 September 2015 08:30 (25 minutes)*

**Presenter:** Dr LUSIANI, Alberto (PI)

**Session Classification:** Session31



Contribution ID: 41

Type: **not specified**

## **Status of the Mu3e experiment at PSI**

*Saturday, 12 September 2015 08:55 (25 minutes)*

**Presenter:** Ms PERREVOORT, Ann-Kathrin (Physics Institute Heidelberg)

**Session Classification:** Session31

Contribution ID: 42

Type: **not specified**

## **Status of the MEG experiment at PSI**

*Saturday, 12 September 2015 09:20 (25 minutes)*

**Presenter:** CEI, Fabrizio (PI)

**Session Classification:** Session31

Contribution ID: 45

Type: **not specified**

## **Lepton-flavour-violating decays in theories with Dim-6 operators**

*Saturday, 12 September 2015 10:55 (25 minutes)*

**Presenter:** Dr PRUNA, Giovanni Marco (Paul Scherrer Institut)

**Session Classification:** Session32

Contribution ID: 46

Type: **not specified**

## **Two-Higgs-doublet model facing experimental hints**

*Friday, 11 September 2015 10:40 (25 minutes)*

**Presenter:** Dr HEECK, Julian (Université Libre de Bruxelles)

**Session Classification:** Sessione21

Contribution ID: 47

Type: **not specified**

## **New Physics effects in flavour physics**

*Thursday, 10 September 2015 10:25 (25 minutes)*

**Presenter:** CRIVELLIN, Andreas (TTP Karlsruhe)

**Session Classification:** Session11

Contribution ID: 48

Type: **not specified**

## Status of the NA62 Experiment

*Saturday, 12 September 2015 11:20 (25 minutes)*

**Presenter:** PALLADINO, Vito

**Session Classification:** Session32

Contribution ID: 49

Type: **not specified**

## Search for edm at storage ring

*Saturday, 12 September 2015 12:10 (25 minutes)*

**Presenter:** Prof. SEMERTZIDIS, Yannis Kyriakos (Center for Axion and Precision Physics, IBS)

**Session Classification:** Session32

Contribution ID: 50

Type: **not specified**

## Outlook

*Saturday, 12 September 2015 12:35 (45 minutes)*

**Presenter:** VAINSHTEIN, Arkady (University of Minnesota)

**Session Classification:** Session32



Contribution ID: 52

Type: **not specified**

## **The SHIP Facility at CERN**

*Saturday, 12 September 2015 11:45 (25 minutes)*

**Presenter:** DE LELLIS, Giovanni (NA)

**Session Classification:** Session32

Contribution ID: 53

Type: **not specified**

## Status of the Mu2e experiment

*Saturday, 12 September 2015 09:45 (25 minutes)*

**Presenter:** MISCETTI, Stefano (LNF)

**Session Classification:** Session31

Contribution ID: 54

Type: **not specified**

## **Status of the COMET experiment**

*Saturday, 12 September 2015 10:10 (25 minutes)*

**Presenter:** Prof. DORNAN, Peter (Imperial College, London)

**Session Classification:** Session31