

Session Program

28 August 2016 to 4 September 2016



XIIth Quark Confinement and the Hadron Spectrum

Section E

Monday 29 August

15:00

Section E

Session | **Location:** Makedonia Palace, Amfitrion I | **Convener:** Marco Gersabeck

15:00–15:20 **Quark flavour anomalies of the SM**

Speaker
Marcin Chrzaszcz

15:20–15:45 **Quark flavour anomalies**

Speaker
Sebastian Jaeger

15:45–16:05 **The $b \rightarrow s$ anomalies: New physics or hadronic effects?**

Speaker
Lars Hofer

16:05–16:25 **Lattice QCD and quark flavour anomalies of the SM**

Speaker
Zhaofeng Liu

16:25–16:40 **Studies of the $t\bar{t}H$ production at 13 TeV by CMS**

Speaker
Predrag Cirkovic

16:40–16:55

Precision measurements of top quark production with the ATLAS detector

Speaker
Philipp Stolte

16:55–17:00 **Empty**

17:00

17:30

Section E

Session | **Location:** Makedonia Palace, Amfitrion I | **Conveners:**
Prof. Martha Constantinou, Felipe J. Llanes-Estrada, Marco Gersabeck

17:30–17:45

CANCELLED: Perturbative and non-perturbative QCD parameters in Dispersive model.

Speaker
Prof. Mohammad Ebrahim Zomorrodian

17:45–18:00 **Search for heavy resonances in vector boson scattering**

Speaker
Guangyi Zhang

18:00–18:15

Measurement of the WZ boson pair production cross section at 13 TeV and limits on anomalous triple gauge couplings with the ATLAS detector

Speaker
Dimitrios Iliadis

18:15–18:30

Measurement of the ZZ(*) production cross section in the four lepton channel at 8 TeV and 13 TeV and limits on anomalous triple gauge couplings with the ATLAS detector

Speaker
Kostas Kordas

18:30–18:45 **Break**

18:45–19:05 **Recent progress on QCD inputs for axion phenomenology**

Speaker
Massimo D'Elia

19:05–19:20

Controlling quark mass determinations non-perturbatively in three-flavour QCD

Speaker
Patrick Fritzscht

19:20–19:35 **Constraining anomalous Higgs couplings at high and low energy**

Speaker
Dr Emanuele Mereghetti

19:35–19:55

Observation of Anomalous Internal Pair Creation in ^8Be : A Possible Signature of a Light, Neutral Boson

Speaker
Attila Krasznahorkay

19:55–20:00 **Discussion**

20:00

Tuesday 30 August

17:30

Section E

Session | **Location:** Makedonia Palace, Amfitrion I | **Convener:** Felipe J. Llanes-Estrada

17:30–17:50 **Hadronic light-by-light contribution to muon ($g-2$)**

Speaker

Dr Peter Stoffer

17:50–18:10 **The Muon $g-2$ Experiment at Fermilab**

Speaker

Antoine Chapelain

18:10–18:30 **Qweak: First Direct Measurement of the Proton's Weak Charge**

Speaker

Wade Duvall

18:30–18:50 **Recent Progress on Intrinsic Charm**

Speaker

Dr Timothy Hobbs

18:50–19:10

Hadronic structure corrections to precision tests of Standard Model at low energies

Speaker

Vladimir Pascalutsa

19:10–19:25 **Effective field theories for muonic hydrogen**

Speaker

Clara Peset

19:25–19:30 **Empty**

19:30

Thursday 1 September

14:30

Section E

Session | **Location:** Makedonia Palace, Kalliope | **Convener:** Achim Schwenk

14:30–14:55 **Searching for Electric Dipole Moments**

Speaker

Peter Fierlinger

14:55–15:20

Matrix elements of quark EDM and quark chromo EDM operators using lattice QCD

Speaker

Rajan Gupta

15:20–15:40

An effective interpretation of electric dipole moments

Speaker

Jordy de Vries

15:40–16:00

Higher Order Corrections to Diboson Production and anomalous Triple Gauge Couplings

Speaker

Robin Roth

16:00–16:15

Probing QCD perturbation theory at high energies with continuum extrapolated lattice data

Speaker

Prof. Stefan Sint

16:15–16:30

A precise determination of the $N_{\text{f}}=3$ QCD Λ -parameter from lattice QCD

Speaker

Mattia Dalla Brida

16:30

Friday 2 September

15:00

Section E

Session | **Location:** Makedonia Palace, Kalliope | **Convener:** Emanuele Mereghetti

15:00–15:20 **Chiral effective field theory for dark matter direct detection**

Speaker

Javier Menendez

15:20–15:40

Status update of the lattice determinations of nuclear matrix elements

Speaker

Prof. Martha Constantinou

15:40–16:00

Status and Future of Neutrinoless Double-Beta Decay Nuclear Matrix Elements

Speaker

Javier Menendez

16:00–16:20

Advances in neutrinoless double beta decay

Speaker

Dr Ralph Massarczyk

16:20–16:40

Neutrinoless double beta decay and particle physics

Speaker

Dr Werner Rodejohann

16:40–17:00

Recent Progress in Neutron-Antineutron Oscillation Theory

Speaker

Michael Wagman

17:00