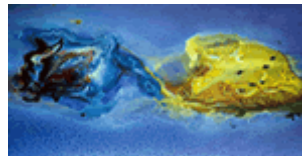


## **Session Program**

**31 July 2018 to 6 August 2018**



# **XIIIth Quark Confinement and the Hadron Spectrum**

## ***QCD and New Physics***

Maynooth University  
Maynooth, Ireland.

# Wednesday 1 August

14:00

## QCD and New Physics: E1a

Session | Location: Arts Bldg, Hall B | Convener: Marco Gersabeck

14:00–14:20 **Long distance effects to rare kaon decays**

**Speaker**

Dr Antonin Portelli

14:20–14:40 **Direct CP violation in  $K^0 \rightarrow \pi^0 \pi^0$ : Standard Model Status**

**Speaker**

Mr Hector Gisbert

14:40–15:10 **New results and prospects in kaon physics from the NA62 experiment**

**Speaker**

Evgueni Goudzovski

15:10–15:40 **Reviewing hadronic uncertainties in rare semileptonic b decays**

**Speaker**

Dr Danny van Dyk

15:40

16:00

## QCD and New Physics: E1b

Session | Location: Arts Bldg, Hall B | Convener: Marco Gersabeck

16:00–16:30 **B decays anomalies at LHCb**

**Speaker**

Arantza Oyanguren Campos

16:30–17:00 **Progress on the nucleon EDM in lattice QCD**

**Speaker**

Prof. Sergey Syritsyn

17:00–17:20

**Towards a new measurement of the neutron electric dipole moment at the Paul Scherrer Institute**

**Speaker**

Dr Stephanie Roccia

17:20–17:40 **CP violation in QCD**

**Speaker**

Dr Michael Creutz

17:40

# Thursday 2 August

14:00

## QCD and New Physics: E2a

Session | Location: Arts Bldg, Hall B | Convener: Felipe J. Llanes-Estrada

14:00–14:30 **The quark/gluon structure of the proton in the high-precision LHC era**

**Speaker**

Dr Juan Rojo

14:30–15:00

**Correlations functions of QCD from the functional renormalization group**

**Speaker**

Mario Mitter

15:00–15:30

**Chiral effective field theory for few- and many-nucleon systems**

**Speaker**

Evgeny Epelbaum

15:30–16:00

**Lattice QCD inputs for neutrino-nucleon and neutrino-nucleus interactions**

**Speaker**

Phiala Shanahan

16:00

16:20

## QCD and New Physics: E2b

Session | Location: Arts Bldg, Hall B | Convener: William Detmold

16:20–16:50

**Recent results from CRESST-III and brief summary of other dark matter direct detection experiments**

**Speaker**

Jochen Schieck

16:50–17:20

**Generalized spin-independent WIMP-nucleus scattering from chiral effective field theory**

**Speaker**

Philipp Klos

17:20–17:50

**Parity-Violating and Parity-Conserving Asymmetries in ep and eN Scattering in the Qweak Experiment**

**Speaker**

Wouter Deconinck

17:50–18:20

**First Observation of the Parity-Violating Asymmetry in Polarized Cold Neutron Capture on Hydrogen**

**Speaker**

Michael Gericke

18:20

## Friday 3 August

14:00

### QCD and New Physics: E3a

**Session** | **Location:** Arts Bldg, Hall B | **Convener:** Felipe J. Llanes-Estrada

14:00–14:30 **The g-2 Experiment at Fermilab.**

**Speaker**

Dr Barry King

14:30–15:00 **Hadronic contributions to the muon anomalous magnetic moment**

**Speaker**

Massimiliano Procura

15:00–15:20 **Standard Model Effective Field Theory and Lepton Flavour Violation**

**Speaker**

Giovanni Marco Pruna

15:20–15:40

**Study of the  $e^+e^- \rightarrow$  hadrons reactions with the CMD-3 detector at the VEPP-2000 collider**

**Speaker**

Dr Peter Lukin

15:40

16:00

### QCD and New Physics: E3b

**Session** | **Location:** Arts Bldg, Hall B | **Convener:** Massimiliano Procura

16:00–16:30 **The Lund Jet Plane**

**Speaker**

Frederic Alexandre Dreyer

16:30–17:00 **Searching for new physics with jet substructure**

**Speaker**

Steven Schramm

17:00–17:20

**A Model for Soft and Hard Interactions based on the CGC/Saturation Approach**

**Speaker**

Prof. Errol Gotsman

17:20–17:40

**One-loop lattice study of composite bilinear operators in Supersymmetric QCD**

**Speaker**

Dr Marios Costa

17:40

# Sunday 5 August

16:30

## QCD and New Physics: E5b

**Session** | **Location:** Arts Bldg, Hall B | **Convener:** Evgeny Epelbaum

16:30–17:00 **Spectroscopy of muonic atoms**

**Speaker**

Aldo Antognini

17:00–17:30 **Baryon Matrix Elements for New Physics Searches**

**Speaker**

Prof. Susan Gardner

17:30–18:00

**Nuclear structure aspects of nuclear matrix elements in neutrinoless double-beta decay**

**Speaker**

Dr Tomás R. Rodríguez

18:00–18:30 **Experimental challenges in neutrinoless double beta decay search**

**Speaker**

Andrea Giachero

18:30