

**Session Program**

**29 July 2019 to 2 August 2019**



**2019 Meeting of the Division of Particles &  
Fields of the American Physical Society**

***Quark & Lepton Flavor***

Northeastern University  
Northeastern University, Boston MA Physics Department, 110 Forsyth St., Boston MA 02115 US

# Monday 29 July

14:00

## Quark & Lepton Flavor

**Session** | **Location:** Northeastern University, Shillman 325 | **Conveners:** Brian Beckford, Bertrand Echenard, Wolfgang Altmannshofer, J Michael Williams

14:00–14:20 **Probing Hidden Sectors with Flavor**

**Speaker**  
Jared Evans

14:20–14:40 **Dark Sectors at LHCb**

**Speaker**  
Constantin Weisser

14:40–15:00

**New results on the search for rare kaon events with the KOTO detector**

**Speaker**  
Dr Brian Beckford

15:00–15:20

**Status on the Search for  $K_L^0 \rightarrow \pi^0 \nu \bar{\nu}$  with the KOTO Experiment**

**Speaker**  
Ms Melissa Hutcheson

15:30

16:00

## Quark & Lepton Flavor

**Session** | **Location:** Northeastern University, Shillman 325 | **Conveners:** Bertrand Echenard, Wolfgang Altmannshofer, Brian Beckford, J Michael Williams

16:00–16:20 **Lepton Flavor Violation**

**Speaker**  
Emilie Passemar

16:20–16:40 **The MEG II experiment in search of  $\mu \rightarrow e \gamma$**

**Speaker**  
Yusuke Uchiyama

16:40–17:00

**A Search for the Neutrinoless Conversion of Muons to Electrons with the Mu2e Experiment**

**Speaker**  
Dr Yaqian Wang

17:00–17:20 **A PIP-II Mu2e Experiment**

**Speaker**  
Prof. Mary Anne Cummings

17:20–17:40

**The Fermilab Muon g-2 straw tracking detectors and the muon EDM measurement**

**Speakers**

Gleb Lukicov, Gleb Lukicov

17:40–18:00

**Leading order hadronic vacuum polarization contribution to the muon anomalous magnetic moment from the FNAL/HPQCD/MILC collaborations**

**Speaker**

Steven Gottlieb

18:00

## Tuesday 30 July

14:00

### Quark & Lepton Flavor

**Session** | **Location:** Northeastern University, Shillman 325 | **Conveners:**  
J Michael Williams, Brian Beckford, Bertrand Echenard, Wolfgang Altmannshofer

14:00–14:20 **Charm CP Violation**

**Speaker**  
Stefan Schacht

14:20–14:40 **Hadronic charm decays at BESIII**

**Speaker**  
Hajime Muramatsu

14:40–15:00 **Semileptonic and leptonic charm decays at BESIII**

**Speaker**  
Alex Gilman

15:00–15:20 **Measurements of charmed baryon decays from LHCb**

**Speaker**  
Michael Kent Wilkinson

15:30

16:00

### Quark & Lepton Flavor

**Session** | **Location:** Northeastern University, Shillman 325 | **Conveners:**  
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16:00–16:20 **Results on Lepton Flavor Universality Tests at LHCb**

**Speaker**  
Dr Phoebe Hamilton

16:20–16:40 **An EFT look at LFUV in  $b \rightarrow s \ell \ell$  decays**

**Speaker**  
Mauro Valli

16:40–17:00 **Reducing Uncertainties in  $B \rightarrow X_s \gamma$  Decay**

**Speaker**  
Ayesh Gunawardana

17:00–17:20 **Update on Semileptonic Decays via Lattice QCD**

**Speaker**  
Dr William Jay

17:20–17:40

**Determination of  $b$ -quark pole mass and  $\overline{MS}$  running mass from H1 and ZEUS beauty vertex production data**

**Speaker**  
Mr Alireza B. Shokouhi

17:40–18:00 **CANCELED Semileptonic  $B \rightarrow X \ell \ell$  decays**

18:00

**Speaker**  
Dean Robinson

## Wednesday 31 July

14:00

### Quark & Lepton Flavor

**Session** | **Location:** Northeastern University, Shillman 325 | **Conveners:**  
J Michael Williams, Brian Beckford, Wolfgang Altmannshofer, Bertrand Echenard

14:00–14:20 **Progress in lattice QCD for B physics**

**Speaker**  
Prof. Stefan Meinel

14:20–14:40 **Belle II Commissioning, First Results, and Future Prospects**

**Speaker**  
Zachary Liptak

14:40–15:00 **LHCb upgrades I and II**

**Speaker**  
Manuel Franco Sevilla

15:00–15:20 **The UT silicon tracker for LHCb's Upgrade I**

**Speaker**  
Ivan Polyakov

15:30

16:00

### Quark & Lepton Flavor

**Session** | **Location:** Northeastern University, Shillman 325 | **Conveners:**  
Brian Beckford, Wolfgang Altmannshofer, Bertrand Echenard, J Michael Williams

16:00–16:20 **Observation of Pentaquarks at LHCb**

**Speaker**  
Dan Craik

16:20–16:40

**Perturbative Corrections to Heavy Quark-Diquark Symmetry Predictions for Doubly Heavy Baryon Hyperfine Splittings**

**Speaker**  
Abhishek Mohapatra

16:40–17:00 **Some interesting aspects of  $\Lambda_b$  baryon decays**

**Speaker**  
Mr Aravindhan Venkateswaran

17:00–17:20 **Revisiting XEFT for the study of  $X(3872)$**

**Speaker**  
Dr Lin Dai

17:20–17:40 **Study of  $Z_c(3900)$  production in  $p\bar{p}$  collisions**

**Speaker**  
Phillip Gutierrez

18:00