

Session Program

July 29, 2019 to August 2, 2019



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

QCD & Heavy Ions

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

Sun, July 28

2:00 PM

QCD & Heavy Ions

Session | **Location:** Northeastern University, Shillman 415 | **Conveners:**
Salvatore Rappoccio, Olga Evdokimov, Prof. Daniel Tapia Takaki, Radja Boughezal

14:00 - 14:20 **Higher order corrections for jet physics at the LHC**

Speaker
Felix Ringer

14:20 - 14:40 **Vector boson + jets cross section measurements at LHC**

Speaker
Avto Kharchilava

14:40 - 15:00 **Results on Hard Probes from LHC Heavy Ion Collisions**

Speaker
Ran Bi

3:30 PM

4:00 PM

QCD & Heavy Ions

Session | **Location:** Northeastern University, Shillman 415 | **Conveners:**
Radja Boughezal, Olga Evdokimov, Daniel Tapia Takaki, Salvatore Rappoccio

16:00 - 16:20 **Critical Point through the random fluctuation walk**

Speaker
Prof. Gennady Kozlov

16:20 - 16:40 **Critical point and primary direct photons**

Speaker
Dr Gennady Kozlov

16:40 - 17:00

Contribution of the Initial geometry state fluctuations to the ridge structure in high multiplicity pp collisions

Speaker
Irais Bautista Guzman

17:00 - 17:20

Quantum Information Science in Proton-Proton Collisions at the Energy Frontier

Speaker
Ridge Liu

17:20 - 17:40 **Exotic Charmonium at BESIII**

Speakers
Ilaria Balossino, Ilaria Balossino

6:00 PM

Mon, July 29

2:00 PM

QCD & Heavy Ions

Session | **Location:** Northeastern University, Shillman 415 | **Conveners:**
Daniel Tapia Takaki, Salvatore Rappoccio, Olga Evdokimov, Radja Boughezal

14:00 - 14:20 **Latest Development in Jet Substructure Techniques**

Speaker
Dr Yang-Ting Chien

14:20 - 14:40 **Multi-jet cross section measurements at the LHC**

Speaker
Christine Angela McLean

14:40 - 15:05

Novel probes of QCD: precision measurements of jet substructure at the LHC

Speaker
Matt LeBlanc

3:30 PM

4:00 PM

QCD & Heavy Ions

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Olga Evdokimov, Daniel Tapia Takaki, Radja Boughezal, Salvatore Rappoccio

16:00 - 16:20 **The proton radius puzzle**

Speaker
Gil Paz

16:20 - 16:40 **Recent BESIII results on light hadrons**

Speaker
Isabella Garzia

16:40 - 17:00 **Studies of baryon form factors at BESIII**

Speakers
Isabella Garzia, Isabella Garzia

17:00 - 17:20 **Physics Goals of the sPHENIX Experiment**

Speaker
Molly Taylor

17:20 - 17:40 **Calorimetry in the sPHENIX Experiment at RHIC**

Speaker
John Haggerty

17:40 - 18:00

Beam energy dependence of the azimuthal anisotropic flow from RHIC

Speaker
Niseem Magdy

6:00 PM

Tue, July 30

2:00 PM

QCD & Heavy Ions

Session | **Location:** Northeastern University, Shillman 415 | **Conveners:** Olga Evdokimov, Daniel Tapia Takaki, Radja Boughezal, Salvatore Rappoccio

14:00 - 14:20 **Small Systems at RHIC**

Speaker

Dr Carlos Eugenio Perez Lara

14:20 - 14:55

Entanglement, Quantum Tomography, and All That: Why It's Happening in QCD

Speakers

Prof. John Ralston, John Ralston

14:55 - 15:15

An overview of heavy-ion physics in small collision systems at the LHC

Speaker

Anders Garritt Knospe

3:30 PM

4:00 PM

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16:00 - 16:20 **Ultra-peripheral heavy-ion collisions + forward/diffraction at RHIC**

Speaker

William Schmidke

16:20 - 16:40 **Quenching of Hadron Spectra in Heavy Ion Collisions at the LHC**

Speaker

Francois Arleo

16:40 - 17:00

General Balance Functions of π^{\pm} , K^{\pm} and p/\bar{p} in Pb--Pb Collisions at the LHC

Speaker

Jinjin Pan

17:00 - 17:20 **Heavy Ion quarkonia and heavy flavor CMS + ATLAS results**

Speaker

Gwang-Jun Kim

17:20 - 17:40 **Heavy ion quarkonia and heavy flavour results from ALICE and LHCb**

Speaker

Gerd Joachim Kunde

6:00 PM