

## **Session Program**

**July 29, 2019 to August 2, 2019**



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

## ***Accelerators***

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

## Tue, July 30

4:00 PM

### Accelerators

**Session** | **Location:** Northeastern University, Shillman 215 | **Conveners:**  
Vladimir Shiltsev, Silvia Verdú Andrés, Patric Muggli

16:00 - 16:20

#### **IsoDAR: Neutrino Physics Using a High Current Cyclotron**

**Speaker**

Joseph Smolsky

16:20 - 16:40

#### **A Beam-Based Production Target Monitor for the Mu2e Experiment at Fermilab**

**Speaker**

Helenka Casler

16:40 - 17:00

#### **The High Intensity Muon Beam project at PSI**

**Speaker**

Angela Papa

17:00 - 17:20

#### **Progress on Muon Ionization Cooling Demonstration with MICE**

**Speaker**

Mark Palmer

17:20 - 17:40

#### **MU\*STAR: A MODULAR ACCELERATOR-DRIVEN SUBCRITICAL REACTOR DESIGN**

**Speaker**

Prof. Mary Anne Cummings

6:00 PM

## Wed, July 31

2:00 PM

### Accelerators

**Session** | **Location:** Northeastern University, Shillman 215 | **Conveners:**  
Vladimir Shiltsev, Silvia Verdú Andrés, Patric Muggli

14:00 - 14:20

#### US CONTRIBUTION TO THE HIGH LUMINOSITY LHC UPGRADE: FOCUSING QUADRUPOLES AND CRAB CAVITIES

##### Speaker

Sandor Feher

14:20 - 14:40

#### Electron-Ion Collider eRHIC: Design and R&D status

##### Speaker

Dr Vadim Ptitsyn

14:40 - 15:00

#### JLEIC: A High Luminosity Polarized Electron-Ion Collider at Jefferson Lab

##### Speaker

Dr Yuhong Zhang

15:00 - 15:20

#### Strong Hadron Cooling for the Electron Ion Collider

##### Speaker

Dr Ferdinand Willeke

3:30 PM

4:00 PM

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#### CBETA: a 4-pass superconducting ERL with combined permanent magnet return arc

##### Speaker

Stephen Brooks

16:20 - 16:40

#### The Chilling Recount of an Unexpected Discovery: First Observations of the Plasma-Cascade Instability in the Coherent Electron Cooling Experiment

##### Speaker

Irina Petrushina

16:40 - 17:00

#### AWAKE: a proton-driven plasma-based accelerator for high-energy physics applications

##### Speaker

Patric Muggli

17:00 - 17:20

#### Progress on laser-driven plasma accelerators for high-energy physics applications

**Speaker**  
Carl Schroeder

17:20 - 17:40

**Investigation of plasma-based accelerators at Stony Brook University**

**Speaker**  
Navid Vafaei-Najafabadi

17:40 - 18:00

**Experiments with Metallic Metamaterial Structures for Wakefield Acceleration**

**Speaker**  
Xueying Lu

6:00 PM