

Session Program

July 29, 2019 to August 2, 2019



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

Plenary Sessions

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

Sun, July 28

8:25 AM

Plenary Sessions: Monday Morning 1

Session | **Location:** Northeastern University, Blackman Auditorium (EII Hall) | **Convener:** Hassan Jawahery

08:30 - 08:35 **Welcome from Northeastern College of Science**

Speaker

Prof. Michael Pollastri

08:35 - 08:40 **Welcome from APS**

Speaker

Dr Kate Kirby

08:40 - 08:50 **Welcome from DPF**

Speakers

Prisca Cushman, Prof. Prisca Cushman

08:50 - 09:15 **Flavor: Theory**

Speaker

Dean Robinson

09:15 - 09:40 **Flavor: Rare Decays & Tests of Lepton Flavor**

Speaker

Saurabh Sandilya

09:40 - 10:05 **Flavor: CPV**

Speaker

Sheldon Stone

10:05 - 10:30 **Flavor: Violation & Dipole Moments**

Speaker

Jason Crnkovic

10:30 AM

11:00 AM

Plenary Sessions: Monday Morning 2

Session | **Location:** Northeastern University, Blackman Auditorium (EII Hall) | **Convener:** Tao Han

11:00 - 11:20 **String Theory**

Speaker

Gary Shiu

11:20 - 11:40 **Lattice QCD**

Speaker

Andreas Kronfeld

11:40 - 12:10 **Heavy Ions**

Speaker

Anthony Robert Timmins

12:10 - 12:30 **Education & Outreach**

12:30 PM

Speaker
kathryn jepsen

Mon, July 29

8:30 AM

Plenary Sessions: Tuesday Morning 1

Session | **Location:** Northeastern University, Blackman Auditorium (EII Hall) | **Convener:** Rafael Lang

08:30 - 08:50 **Axion DM Searches**

Speaker
Lindley Winslow

08:50 - 09:10 **Models of Dark Matter & Dark Sectors**

Speaker
Natalia Toro

09:10 - 09:40 **Dark Matter: Direct Detection**

Speaker
Kaixuan Ni

09:40 - 10:05 **Dark Matter: Indirect Detection**

Speaker
Kerstin Perez

10:05 - 10:30 **Dark Matter: Astrophysical Probes**

Speaker
Alex Drlica-Wagner

10:30 AM

11:00 AM

Plenary Sessions: Tuesday Morning 2

Session | **Location:** Northeastern University, Blackman Auditorium (EII Hall) | **Convener:** Marcelle Soares-Santos

11:00 - 11:30 **New Measurements of Cosmological Parameters**

Speaker
Jonathan Blazek

11:30 - 12:00 **Astrophysical Evidence on Heavy & Light Dark Species**

Speaker
Annika Peter

12:00 - 12:20 **High Energy Astroparticles**

Speaker
Tyce DeYoung

12:20 - 12:22 **DPF2019 Tues Remarks**

Speakers
Emanuela Barberis, Toyoko Orimoto

12:30 PM

Tue, July 30

8:30 AM

Plenary Sessions: Wednesday Morning 1

Session |

Location: Northeastern University, Blackman Auditorium (Ell Hall), 342 Huntington Ave, Boston, MA 02115 |

Convener: Darien Wood

08:30 - 09:00

Precision Electroweak, Top, and Higgs at LHC

Speaker

Keti Kaadze

09:00 - 09:20

What don't we know about the Higgs boson?

Speaker

Ian Low

09:20 - 09:40

Frontiers of Perturbative QCD

Speaker

Prof. Frank Petriello

09:40 - 10:10

LHC Results on BSM

Speaker

Maximilian J Swiatlowski

10:10 - 10:30

Theory Perspectives on Particle Searches at LHC

Speaker

Adam Orion Martin

10:30 AM

11:00 AM

Plenary Sessions: Wednesday Morning 2

Session |

Location: Northeastern University, Blackman Auditorium (Ell Hall), 342 Huntington Ave, Boston, MA 02115 |

Convener: Kate Scholberg

11:00 - 11:20

Neutrino Theory: What are the important questions?

Speaker

Irina Mocioiu

11:20 - 11:40

Long-baseline Accelerator Neutrinos

Speaker

Louise Suter

11:40 - 12:10

Short-baseline Neutrinos

Speaker

Roxanne Guenette

12:10 - 12:30

Neutrinoless Double-beta Decay & Direct Mass Measurements

Speaker

Yury Kolomensky

12:30 - 12:32

DPF2019 Wed Remarks

12:32 PM

Speakers

Emanuela Barberis, Toyoko Orimoto

Wed, July 31

8:30 AM

Plenary Sessions: Thursday Morning 1

Session |

Location: Northeastern University, Blackman Auditorium (Ell Hall), 342 Huntington Ave, Boston, MA 02115 |

Convener: Young-Kee Kim

08:30 - 09:00

Precision Higgs, Electroweak, and Top Physics

Speaker

Michael Peskin

09:00 - 09:30

Precision Cosmology

Speaker

Chihway Chang

09:30 - 10:00

Precision Neutrinos

Speaker

Elizabeth Turner Worcester

10:00 - 10:15

DOE

Speaker

Glen Crawford

10:15 - 10:30

NSF

Speaker

Randy Ruchti

10:30 AM

11:00 AM

Plenary Sessions: Thursday Morning 2

Session |

Location: Northeastern University, Blackman Auditorium (Ell Hall), 342 Huntington Ave, Boston, MA 02115 |

Convener: Dmitri Denisov

11:00 - 11:30

Regional Programs in HEP: Asia

Speaker

Xinchou Lou

11:30 - 12:00

European Strategy Study

Speaker

Halina Abramowicz

12:00 - 12:30

Gearing up for Snowmass 2021

Speakers

Prisca Cushman, Prisca Cushman, Young-Kee Kim

12:30 - 12:32

DPF2019 Thurs Remarks

Speakers

Emanuela Barberis, Toyoko Orimoto

12:32 PM

Thu, August 1

9:00 AM

Plenary Sessions: Friday Morning 1

Session |

Location: Northeastern University, Blackman Auditorium (Ell Hall), 342 Huntington Ave, Boston, MA 02115 |

Convener: Prisca Cushman

09:00 – 09:20 **Diversity & Inclusion**

Speaker

Prof. Sarah Tuttle

09:20 – 09:50 **Applications of Detector Technology**

Speaker

Andrew White

09:50 – 10:20 **Advanced Accelerator Concepts**

Speaker

Dr Mark Palmer

10:20 – 10:30 **Conference Photo**

Speakers

Emanuela Barberis, Toyoko Orimoto

10:30 AM

11:00 AM

Plenary Sessions: Friday Morning 2

Session |

Location: Northeastern University, Blackman Auditorium (Ell Hall), 342 Huntington Ave, Boston, MA 02115 |

Convener: Bo Jayatilaka

11:00 – 11:30 **Computing for Future HEP Analysis**

Speaker

Dr James Amundson

11:30 – 11:45

DPF Instrumentation Award: "Resistive Plate Chambers: the planar geometry impact in the world of gaseous detectors"

Speakers

Rinaldo Santonico, Rinaldo Santonico

11:45 – 12:00

DPF Instrumentation Early Career Award: "Counting electrons with the Skipper-CCD"

Speaker

Javier Tiffenberg

12:00 – 12:05 **Introduction to Mentoring Award**

Speaker

Roxanne Guenette

12:05 – 12:20 **DPF Mentoring Award**

Speaker
Bonnie Fleming

12:20 - 12:30 **Closing Remarks**

Speakers
Emanuela Barberis, Toyoko Orimoto

12:45 PM