

Session Program

24-28 Mar 2025



Deep Inelastic Scattering 2025

WG4: QCD with Heavy Flavors and Hadronic Final States

Tuesday 25 March

09:00

WG4: QCD with Heavy Flavors and Hadronic Final States: WG4: Session #1 (...topic ...)

Session | Location: Baltic | Convener: Chiara Signorile

09:00–09:20

The azimuthal correlation between the leading jet and the scattered lepton in deep inelastic scattering at HERA

Speaker

Oleksandr Zenaiev

09:22–09:42

Semi-Inclusive Deep-Inelastic Scattering at NNLO in QCD

Speaker

Giovanni Stagnitto

09:44–10:04

Machine Learning-Assisted Measurement of Lepton-Jet Azimuthal Angular Asymmetries in Deep-Inelastic Scattering at HERA + Deep learning full phase-space measurement of high Q^2 ep collisions at HERA

Speakers

Miguel Arratia, Miguel Arratia Munoz

10:30

11:00

WG4: QCD with Heavy Flavors and Hadronic Final States: WG4: Session #2

Session | Location: Baltic | Convener: Brian Page

11:00–11:20

New techniques for reconstructing and calibrating hadronic objects with ATLAS

Speaker

Antti Pirttikoski

11:22–11:42

Classifying hadronic objects in ATLAS with ML/AI algorithms

Speaker

Vilius Čepaitis

11:44–12:04

Flavour Tagging with Graph Neural Network with the ATLAS Detector

Speaker

Helena Santos

12:06–12:26

b-jet Triggers in run 3

Speaker

Stefano Franchellucci

12:30

14:00

WG4: QCD with Heavy Flavors and Hadronic Final States: WG4: Session #3

Session | Location: Baltic | Convener: Chiara Signorile

14:00–14:20

Positive-definite gluon fragmentation into quarkonia

Speaker

Sergey Baranov

14:22-14:42

Entanglement as a probe of hadronization

Speaker

Charles Joseph Naim

14:44-15:04

Characterizing the bulk properties of photonuclear collisions with ATLAS measurements of inclusive and strange particle production

Speaker

Benjamin Jacob Gilbert

15:06-15:26

Charged particle and underlying event measurements with the ATLAS detector

Speaker

Claire Gwenlan

15:30

Wednesday 26 March

11:00

WG4: QCD with Heavy Flavors and Hadronic Final States: WG4: Sessoin #6

Session | Location: Baltic | Convener: Brian Page

11:00–11:20

Progress on NNLO+PS predictions for top-quark pair production and decay

Speaker

Chiara Signorile

11:22–11:42

Recent B-physics results from ATLAS

Speaker

Sally Seidel

11:44–12:04

Studies of hadron spectroscopy at Belle and Belle II

Speaker

Youngjoon Kwon

12:30

14:00

WG4: QCD with Heavy Flavors and Hadronic Final States: WG4: Session #7

Session | Location: Baltic | Convener: Chiara Signorile

14:00–14:20

Measurement of the 1-jettiness event shape observable in deep-inelastic electron-proton scattering at HERA

Speaker

Dr Zhoudunming Tu

14:22–14:42

Measurement of groomed event shape observables in deep-inelastic electron-proton scattering at HERA + Observation and differential cross section measurement of neutral current DIS events with an empty hemisphere in the Breit frame

Speakers

Miguel Arratia, Miguel Arratia Munoz

14:44–15:04

Precision simulations for ep colliders with SHERPA

Speaker

Frank Krauss

15:06–15:26

Measurements of W, Z and Drell-Yan processes in ATLAS

Speaker

Johanna Wanda Kraus

15:30

Thursday 27 March

09:00

WG4: QCD with Heavy Flavors and Hadronic Final States: WG4: Session #9

Session | Location: Baltic | Convener: Brian Page

09:00–09:20

Deep learning full phase-space measurement of high Q^2 ep collisions at HERA

Speaker

Miguel Arratia

09:22–09:42

Measurements of jet cross-section ratios with ATLAS

Speaker

Ota Zaplatilek

09:44–10:04

Precise Determination of the Strong Coupling Constant from Dijet Cross Sections up to the Multi-TeV Range

Speaker

Claire Gwenlan

10:06–10:26

Jet substructure measurements with the ATLAS experiment

Speaker

Mario Campanelli

10:30