

Session Program

24-28 Mar 2025



Deep Inelastic Scattering 2025

WG1: Structure Functions and Parton Densities

Tuesday 25 March

09:00

WG1: Structure Functions and Parton Densities: Parallel session 1

Session | **Location:** Atlantic Suite | **Convener:** Dr TIMOTHY J HOBBS

09:00–09:22 **Perturbative RGE systematics in precision observables**

Speaker

Dr Valerio Bertone

09:22–09:44

NLO event generation of neutrino DIS at FASER and application to neutrino flux measurements

Speaker

Peter Krack

09:44–10:06

Dimuon production in DIS with charm-mass effects

Speaker

Sami Yrjänheikki

10:06–10:28

Fast NNLO Implementation of the aSACOT scheme for DIS

Speaker

Dr Valerio Bertone

10:30

11:00

WG1: Structure Functions and Parton Densities: Parallel session 2

Session | **Location:** Atlantic Suite | **Convener:** Mateusz Dyndal

11:00–11:32 **Updates of MSHT PDFs**

Speaker

Robert Samuel Thorne

11:32–11:54

Status of ABMP16/ABMPtt/ABMPgam PDF fits

Speaker

Oleksandr Zenaiev

11:54–12:16

News from the CTEQ-TEA global analysis

Speaker

Dr TIMOTHY J HOBBS

12:16–12:38

NNPDF updates and the path toward NNPDF4.1: data, theory, and methodology

Speaker

Dr Tanjona R. Rabemananjara

12:38

14:00

WG1: Structure Functions and Parton Densities: Parallel session 3

Session | **Location:** Atlantic Suite | **Convener:** Chiara Bissolotti

14:00–14:22

Studies of N3LO Fits to DIS Data Using xFitter

Speaker

Alexander Glazov

14:22-14:44

Approximate N3LO PDFs: Updates and Consequences for Phenomenology**Speaker**

Thomas Cridge

14:44-15:06

The path to the determination of $\alpha_s(m_Z)$ at N³LO_{\bf QCD} \otimes $\{\mathbf{NLO}\}_{\mathbf{QED}}$ accuracy from a global PDF analysis**Speaker**

Roy Stegeman

15:06-15:28

Combination of aN3LO PDFs and implications for Higgs production cross-sections at the LHC**Speaker**

Thomas Cridge

15:30

Wednesday 26 March

09:00

WG1: Structure Functions and Parton Densities: Parallel session 5

Session | Location: Atlantic Suite | Convener: Dr Tanjona R. Rabemananjara

09:00–09:22

Nucleon and Pion Parton Distributions from Lattice and Impacts on Global QCD Analysis

Speaker

Huey-Wen Lin

09:22–09:44

Systematic uncertainties from higher-twist corrections in DIS at large x

Speaker

Alberto Accardi

09:44–10:06

Fantômas: advanced polynomial parametrizations for parton distributions

Speakers

Aurore Courtoy, Dr TIMOTHY J HOBBS, Prof. Fred Olness

10:30

11:00

WG1: Structure Functions and Parton Densities: Parallel session 6

Session | Location: Atlantic Suite | Convener: Claire Gwenlan

11:00–11:22

Evaluating the Faithfulness of PDF uncertainties in the presence of Inconsistent Data

Speaker

Maria Ubiali

11:22–11:44

Theoretical Uncertainties on the determination of the strong coupling from Z pT

Speaker

Thomas Cridge

11:44–12:06

Colibri: a flexible framework for Bayesian analysis in PDF fits

Speaker

Luca Mantani

12:30

14:00

WG1: Structure Functions and Parton Densities: Parallel session 7

Session | Location: Atlantic Suite | Convener: Mpho Gift Doctor Gololo

14:00–14:22

nCTEQ global analysis of nuclear PDFs

Speaker

Michael Klasen

14:22–14:44

Bridging the Gap: Connecting Atomic Nuclei to Their Quantum Foundations

15:30

Speaker
Prof. Fred Olness