

Session Program

4-8 May 2026



33rd International Workshop on Deep Inelastic Scattering and Related Subjects (DIS2026)

WG1 Structure functions and parton densities

Hotel Carlton
via Milazzo 6, Bologna, Italy

Tuesday 5 May

09:00

WG1 Structure functions and parton densities
Session | **Location:** Hotel Carlton, Sala IMPERIALE A, First Floor | **Convener:** Amanda Cooper-Sarkar

09:00–09:20 **CT25: the new generation of CTEQ-TEA PDFs**

Speaker
 Pavel Nadolsky

09:20–09:40 **Towards a new NNPDF global analysis**

Speaker
 Felix Hekhorn

09:40–10:00 **MSHT Updates**

Speaker
 Robert Thorne

10:00–10:20 **Parton and nuclear dynamics at large x: the CJ26 global QCD analysis**

Speaker
 Alberto Accardi

10:20

11:00

WG1 Structure functions and parton densities
Session | **Location:** Hotel Carlton, Sala IMPERIALE A, First Floor | **Convener:** Robert Thorne

11:00–11:10 **Correlations in theory uncertainties from missing higher orders**

Speaker
 Marco Bonvini

11:10–11:20 **Exploring Parametrization and Prior Biases for CT PDFs**

Speaker
 Aurore Courtoy

11:20–11:30 **Theory updates for parton distributions in Hessian formalism**

Speaker
 Petja Paakinen

11:30–11:40 **Colibri: a new tool for fast-flying PDF fits**

Speaker
 Valentina Schutze

11:40–12:00 **Markov Chain Monte Carlo analysis of parton distribution functions**

Speaker
 Aleksander Kusina

12:00–12:20

Neural Network Reconstruction of Parton Distributions from Lattice QCD

Speaker
 Min-Huan Chu

12:20-12:40 **What Can Lattice QCD Tell Us About Sea-Quark Asymmetry?**

Speaker
Huey-Wen Lin

12:40-13:00

Higher Moments of Parton Distribution Functions from Lattice QCD at the Physical Point

Speaker
Emilio Taggi

13:00

14:30

WG1 Structure functions and parton densities

Session | **Location:** Hotel Carlton, Sala IMPERIALE A, First Floor | **Convener:** Markus Diehl

14:30-14:50 **The Pion Parton Distribution Puzzle in High x Region**

Speaker
Misak Sargsian

14:50-15:10 **Meson Structure Study via Drell-Yan Production at AMBER Experiment**

Speaker
Zoë Earnshaw

15:10-15:30 **JAM global QCD analysis of pion and kaon PDFs**

Speaker
Dr Wally Melnitchouk

15:30-15:50 **New parton distributions of the real photon**

Speaker
Madhav Chithirasreemadam

15:50-16:10

Open charm photoproduction with $G\gamma_A$ -FONLL at LHC and EIC

Speaker
Anna Stasto

16:15

16:45

WG1 Structure functions and parton densities

Session | **Location:** Hotel Carlton, Sala IMPERIALE A, First Floor | **Convener:** Thomas Cridge

16:45-17:05 **nCTEQ global analysis of nuclear PDFs**

Speaker
Tomas Jezo

17:05-17:25 **Impact of Open Heavy-Flavour Production on nCTEQ Nuclear PDFs**

Speaker
Mr Jan Wissmann

17:25-17:45

Nuclear modifications on longitudinal-transverse structure function ratio in the deuteron

Speaker
Prof. Shunzo Kumano

17:45-18:05

Nuclear modifications of parton distributions

Speaker

Roberto Petti

18:05

Wednesday 6 May

09:00

WG1 Structure functions and parton densities

Session | **Location:** Hotel Carlton, Sala IMPERIALE A, First Floor | **Convener:** Paul Newman

09:00–09:20

sPHENIX measurements of jet and isolated photon production in p+p collisions at RHIC

Speaker

Yeonju Go

09:20–09:40

Probing the Light-Quark Ratio via Forward-Backward Asymmetry

Speaker

Mr Wenhao Ma

09:40–10:00

Recent hard and soft QCD measurements in ATLAS

Speaker

Zdenek Hubacek

10:00–10:20

Measurements of σ_{W^+} and σ_{W^-} cross sections and their ratio in pp collisions at STAR

Speaker

Bernd Surrow

10:20–10:30

Strangeness in the proton from σ_{W^+} charm production and SIDIS data

Speaker

Wally Melnitchouk

10:30–10:40

Associated $W +$ charm production: indications for PDF analysis

Speaker

Ville Alanko

10:45

11:30

WG1 Structure functions and parton densities

Session | **Location:** Hotel Carlton, Sala IMPERIALE A, First Floor | **Convener:** Thomas Gehrmann

11:30–11:50

NPC fragmentation functions and calculations of SIDIS at N3LO in QCD

Speaker

Jun Gao

11:50–12:10

COMPASS colinear multiplicities on proton and deuteron targets

Speaker

Marcin Stolarski

12:10–12:30

Hadronization Dynamics in the Nuclear Medium: Preliminary Insights from the CLAS12 RGE Experiment at Jefferson Lab

	<p>Speaker Prof. Hayk Hakobyan</p>
12:50	<p>12:30–12:50 Towards NNFF2.0</p> <p>Speaker Tanishq Sharma</p>
14:30	<p>WG1 Structure functions and parton densities Session Location: Hotel Carlton, Sala IMPERIALE A, First Floor Convener: Pavel Nadolsky</p>
	<p>14:30–14:50 Precise predictions for semi-Inclusive DIS</p> <p>Speaker Thomas Gehrmann</p>
	<p>14:50–15:10 Taking dimuon production in DIS to NNLO precision</p> <p>Speaker Sami Yrjänheikki</p>
	<p>15:10–15:30 Electroproduction structure function F2 in the low Q2, low x region - an update</p> <p>Speaker Barbara Badelek</p>
15:50	<p>15:30–15:50 New results on small-x resummation for splitting functions</p> <p>Speaker Marco Bonvini</p>
16:30	<p>WG1 Structure functions and parton densities Session Location: Hotel Carlton, Sala IMPERIALE A, First Floor Convener: Aurore Courtoy</p>
	<p>16:30–16:50 Theoretical Uncertainties on the determination of the strong coupling from Z pT</p> <p>Speaker Thomas Cridge</p>
	<p>16:50–17:00 A simultaneous determination of $\alpha_s(m_Z)$ and m_t from a global PDF analysis</p> <p>Speaker Jaco ter Hoeve</p>
	<p>17:00–17:10 Interplay of α_s, m_t and gluon parametrization in CT PDF extractions</p> <p>Speaker Tanishq Sharma</p>
	<p>17:10–17:30 Impact of PVDIS on the weak mixing angle and high-x parton distributions</p> <p>Speaker Richard Whitehill</p>
	<p>17:30–17:50 Optimization of factorization scale in QED Drell-Yan-like processes</p>

Speaker
Andrej Arbuzov

17:50–18:10

Two-Loop DGLAP Splitting Functions from Light Cone Perturbation Theory

Speaker
Mikko Seppälä

18:10–18:30 **QED Effects in PDFs**

Speaker
Thomas Cridge

18:30

Thursday 7 May

09:00

WG1 Structure functions and parton densities

Session | **Location:** Hotel Carlton, Sala IMPERIALE A, First Floor | **Convener:** Marco Bonvini

09:00–09:20

Studies of N³LO corrections and resummation scale uncertainties in fits to DIS data using xFitter

Speaker

Dr Francesco Giuliani

09:20–09:40

Toward N³LO CT global PDF analyses: GMVFN schemes and DGLAP evolution in QCD

Speaker

Marco Guzzi

09:40–10:00

MSHT N³LO PDF update

Speaker

Thomas Cridge

10:00–10:20

The four-loop non-singlet splitting functions

Speaker

Vasily Sotnikov

10:20

11:00

WG1 Structure functions and parton densities

Session | **Location:** Hotel Carlton, Sala IMPERIALE A, First Floor | **Convener:** Dr Francesco Giuliani

11:00–11:20

Proton structure at the LHC with neural simulation-based inference

Speaker

Robert Schoefbeck

11:20–11:40

Asymmetric soft resummation of Semi-Inclusive Deep Inelastic scattering

Speaker

Francesco Ventola

11:40–12:00

Model-Independent Determination of Proton Structure Functions at the Electron-Ion Collider

Speaker

Javier Jiménez-López

12:00–12:20

Inclusive electron-proton measurement prospects in the Electron-Ion Collider early science stage

Speaker

Stephen Maple

12:20-12:40

Toward Precision Helicity PDFs from Global DIS and SIDIS Fits with Projected EIC Measurements

Speaker

Dr Hamzeh Khanpour

12:40-13:00

CANCELLED: FPDF: an Open Source Tool for Extracting Parton Distribution Functions (PDFs) in the Hessian approach and its application to N3LO PDFs

Speaker

Dr Juan Manuel Cruz Martinez

13:10