

Session Program

8-12 Apr 2019



XXVII International Workshop on Deep Inelastic Scattering and Related Subjects

WG1: Structure Functions and Parton Densities

Turin

Aula Magna della Cavallerizza Reale, University of Turin

Tuesday 9 April

08:30

WG1: Structure Functions and Parton Densities: PDF (1)

Session | Location: Rettorato - Aula Magna, Via Verdi, 8 Turin

08:30-08:50 **NNLO QCD fits to extract PDFs from HERA inclusive and jet data**

Speaker
Amanda Sarkar

08:50-09:10 **Updates of PDFs using the MMHT framework.**

Speaker
Robert Samuel Thorne

09:10-09:30 **New CTEQ global analysis with high precision data from the LHC**

Speaker
C.-P. Yuan

09:30-09:50 **PDFs with theoretical uncertainties**

Speaker
Cameron Voisey

09:50-10:10 **Update of the ABM16 PDF fit**

Speaker
Dr Sergey Alekhin

10:15

10:45

WG1: Structure Functions and Parton Densities: PDF (2)

Session | Location: Rettorato - Aula Magna, Via Verdi, 8 Turin

10:45-11:05 **Current status of spin-dependent parton distributions**

Speaker
nobuo sato

11:05-11:25 **First determination of nuclear PDFs using Neural Networks**

Speaker
Rabah Abdul Khalek

11:25-11:45 **Parton distribution functions from lattice QCD**

Speaker
Dr Jianhui Zhang

11:45-12:05

The PDF interpretation of the measurement of a vector boson produced in association with jets at the ATLAS detector

Speaker
Mark Sutton

12:05-12:25 **Combined analysis of collinear PDFs and FFs**

12:30

Speaker
nobuo sato

14:00

WG1:Structure Functions and Parton Densities: PDF related (1)

Session | **Location:** Rettorato - Aula Magna, Via Verdi, 8 Turin

14:00-14:20

Large-log resummation in the VFN scheme of the DIS heavy-quark production

Speaker
Sergey Alekhin

14:20-14:40

Nuclear Uncertainties in the Determination of Proton PDFs

Speaker
Rosalyn Pearson

14:40-15:00

On the Consistent Use of Scale Variations in PDF Fits and Predictions

Speaker
Lucian Harland-Lang

15:00-15:20

Soft correction to inclusive DIS cross-section at four-loops

Speaker
Dr Goutam Das

15:20-15:40

Status of the measurement of the flavor dependence of light-quark sea in the SeaQuest experiment

Speaker
Mr Jason Dove

15:45

16:15

WG1:Structure Functions and Parton Densities: Tools

Session | **Location:** Rettorato - Aula Magna, Via Verdi, 8 Turin

16:15-16:32

Recent developments from APFEL++

Speaker
Valerio Bertone

16:32-16:49

A review of recent developments for APPLgrid

Speaker
Mark Sutton

16:49-17:06

Recent QCD results from the xFitter project

Speaker
Fred Olness

17:06-17:23

The LHC experimental data in the CT18 global QCD analysis

Speaker
Pavel Nadolsky

17:23-17:40

Recent developments with APPLfast project for fully differential NNLO cross sections at the LHC and the distribution of fast interpolation grids

Speaker
Mark Sutton

17:40–17:57 **Efficient interpolation and evolution of parton distribution functions**

Speaker
Mr Riccardo Nagar

18:00

Wednesday 10 April

08:30

WG1: Structure Functions and Parton Densities

Session | **Location:** Rettorato - Aula Magna, Via Verdi, 8 Turin

08:45–09:05

Constraining the Sea Quark Distributions Through W^\pm Cross Section Ratio Measurements at STAR

Speaker

Matt Posik

09:10–09:30

A new simple PDF parametrisation: improved description of the HERA data

Speaker

Dr Francesco Giuli

09:30–09:50

Fracture Functions in different kinematic regions and their factorizations

Speaker

Dr Kai-bao Chen

09:50–10:10

Testing collinear factorization in a spectator model with mass corrections

Speaker

Juan Guerrero

10:15

14:00

WG1: Structure Functions and Parton Densities: Final states, heavy flavour and top

Session | **Location:** Rettorato - Aula Magna, Via Verdi, 8 Turin

14:00–14:20

Heavy-flavour production processes relevant for PDF fits

Speaker

Maria Vittoria Garzelli

14:21–14:41

Determination of proton parton distribution functions using ATLAS data

Speaker

Francesco La Ruffa

14:41–15:01

Impact of LHC top-quark pair measurements to CTEQ-TEA PDF analysis

Speaker

Tie-Jiun Hou

15:01–15:21

Recent PDFs results from top quark pair and single top t-channel differential cross sections in CMS

Speakers

Olaf Behnke, Olaf Behnke

15:21-15:41

Production of $W^+ W^-$ and $t \bar{t}$ pairs via photon-photon processes in proton-proton scattering**Speaker**

Antoni Szczurek

15:45

16:15

WG1: Structure Functions and Parton Densities: Final states and heavy flavour**Session** | **Location:** Rettorato - Aula Magna, Via Verdi, 8 Turin

16:15-16:35

The fast reproduction of fully differential cross sections at NNLO in deep inelastic scattering at HERA using fast interpolation grids**Speaker**

Daniel Britzger

16:35-16:55

Charm production in charged current deep inelastic scattering at HERA**Speaker**

Jae Nam

16:55-17:15

ATLAS Jet Measurements for PDFs and their Uncertainties**Speaker**

Christopher Young

17:15-17:35

Measurement of photon production at ATLAS**Speaker**

Ana Rosario Cueto Gomez

17:35-17:55

Measurement of W and Z boson production at ATLAS**Speaker**

Artur Trofymov

18:00

Thursday 11 April

08:30

WG1: Structure Functions and Parton Densities: Nuclear scattering

Session | **Location:** Rettorato - Aula Magna, Via Verdi, 8 Turin

08:30–08:50 **Results from proton-lead and fixed-target collisions at LHCb**

Speaker

Óscar Boente García

08:50–09:10 **A QCD analysis for nuclear PDFs at NNLO**

Speaker

Marina Walt

09:10–09:30 **Constraints for nuclear PDFs from the LHCb D-meson data**

Speaker

Hannu Paukkunen

09:30–09:50 **Extracting the Neutron Structure Function from Global DIS Data**

Speaker

Cynthia Keppel

09:50–10:10 **nCTEQ PDFs and the strange PDF at LHC**

Speaker

Fred Olness

10:15

10:45

WG1: Structure Functions and Parton Densities: PDF related (3)

Session | **Location:** Rettorato - Aula Magna, Via Verdi, 8 Turin

10:45–11:05

A statistical description of theory uncertainty from missing higher orders

Speaker

Marco Bonvini

11:05–11:25 **Investigation of parton densities at very high x**

Speaker

Allen Caldwell

11:25–11:45 **PB TMD distributions from fits to DIS precision data**

Speaker

Sara Taheri Monfared

11:45–12:05

Parton Branching TMDs with angular ordering condition and their application to Z boson p_T spectrum

Speaker

Aleksandra Anna Lelek

12:05–12:25 **Using Forward-backward Drell-Yan Asymmetry in PDF Determinations**

12:30

Speaker
Dr Juri Fiaschi