Session Program

Mar 23 – 27, 2020

XXVIII International Workshop on Deep Inelastic Scattering and Related Subjects

Structure function and parton densities

Brooklyn, NY
333 Adams Street, Brooklyn, New York 11201, USA

Tue, March 24

9:00 AM

Structure function and parton densities: Updates of global PDF analyses (I)

Session | **Location:** Brooklyn, NY, 333 Adams Street, Brooklyn, New York 11201, USA | **Conveners:** Benjamin Nachman, Katarzyna Wichmann, Maria Zurita

9:00 – 9:30 AM **Progress in the ABM PDF fit**

Speakers
Johannes BLUEMLEIN, Prof. Sven-Olaf Moch

9:30 – 10:00 AM **Insights from the CT18 NNLO global QCD analysis**

Speaker
Timothy Hobbs

10:00 – 10:30 AM **The new PDF sets in the MSTW/MMHT framework**

Speaker
Prof. Robert Thorne

10:30 AM

11:00 AM

Structure function and parton densities: PDFs from Lattice QCD

Session | **Location:** Brooklyn, NY, 333 Adams Street, Brooklyn, New York 11201, USA | **Conveners:** Maria Zurita, Benjamin Nachman, Katarzyna Wichmann

11:00 – 11:15 AM **Nonperturbative Collins-Soper Kernel from Lattice QCD**

Speaker
Dr Yong Zhao

11:15 – 11:30 AM
Nucleon valence quark distributions from Lattice QCD using distillation

Speaker
Dr Christos Kallidonis

11:30 – 11:45 AM **Nucleon and pion structure at physical pion mass**

Speaker
Dr Joe Karpie

11:45 AM – 12:00 PM
Two-current Correlations and the Pion Valence Quark Distribution from Lattice QCD

Speaker
Colin Egerer

12:00 – 12:15 PM **Lattice QCD determination of valence PDF of pion**

Speaker
Nikhil Karthik

12:15 – 12:30 PM
Unpolarized and Helicity Isovector Nucleon Parton Distribution Functions on Superfine Lattice

Speaker
Mr Xiang Gao

12:30 – 12:45 PM
First Glance at Nucleon Polarized Gluon and Strange Parton Distribution Functions on the Lattice

Speaker
Prof. Huey-Wen Lin

12:45 – 1:00 PM **Charting the future lattice-PDF synergy**

Speaker
Timothy Hobbs

1:00 PM

2:30 PM

Structure function and parton densities: Jets & PDFs

Session | **Location:** Brooklyn, NY, 333 Adams Street, Brooklyn, New York 11201, USA | **Conveners:** Benjamin Nachman, Maria Zurita, Katarzyna Wichmann

2:30 – 2:48 PM
Measurements of Jet Cross Sections in proton-proton Collisions at STAR

Speaker
Zilong Chang

2:48 – 3:06 PM **ATLAS Jet Measurements for PDFs and their Uncertainties**

Speaker
Robert HANKACHE

3:06 – 3:24 PM
Determination of proton parton distribution functions using ATLAS data

Speaker
Stefano CAMARDA

3:24 – 3:42 PM **V+heavy flavor jets and constraints to PDFs in CMS**

Speaker
Avto Kharchilava

3:42 – 4:00 PM **PDF constraints from dijet production at the LHC**

Speaker
Emanuele Roberto Nocera

4:00 PM

4:30 PM

Structure function and parton densities: DIS (I)

Session | **Location:** Brooklyn, NY, 333 Adams Street, Brooklyn, New York 11201, USA | **Conveners:** Maria Zurita, Benjamin Nachman, Katarzyna Wichmann

4:30 – 4:45 PM **Study of proton parton distribution functions at high x**

Speaker
Allen Caldwell

4:45 – 5:00 PM
Impact of full JLab 6 GeV DIS data on CTEQ-JLab (CJ) PDFs & nuclear effects

Speaker
Dr Ishara Fernando

5:00 – 5:15 PM

The shape of the $\bar d- \bar u$ asymmetry from DIS and Drell-Yan data

Speaker
Wally Melnitchouk

5:15 – 5:30 PM **Parton Distributions with Theory Uncertainties**

Speaker
Emanuele Roberto Nocera

5:30 – 5:45 PM

Simultaneous extraction of spin-dependent and spin-averaged gluon PDFs

Speaker
Yiyu Zhou

5:45 – 6:00 PM **Critical analysis of Bayesian approaches to PDF uncertainties**

Speaker
Wally Melnitchouk

6:00 PM

Wed, March 25

9:00 AM

Structure function and parton densities: Updates of global PDF analyses (II)

Session | **Location:** Brooklyn, NY, 333 Adams Street, Brooklyn, New York 11201, USA | **Conveners:** Benjamin Nachman, Katarzyna Wichmann, Maria Zurita

9:00 – 9:30 AM **Towards the NNPDF4.0 global analysis**

Speaker
Juan Rojo

9:30 – 10:00 AM **Recent QCD results from the xFitter project**

Speaker
alexander glazov

10:00 – 10:30 AM **Benchmarking for PDF4LHC20**

Speaker
Prof. Joey Huston

10:30 AM

11:00 AM

Structure function and parton densities: Nuclear PDFs

Session | **Location:** Brooklyn, NY, 333 Adams Street, Brooklyn, New York 11201, USA | **Conveners:** Benjamin Nachman, Katarzyna Wichmann, Maria Zurita

11:00 – 11:20 AM **From bound nucleons to the free neutron**

Speaker
Efrain Segarra

11:20 – 11:40 AM **Re-analysis of neutrino DIS data in the global nuclear PDFs**

Speaker
Mr Khoirul Faiq Muzakka

11:40 AM – 12:00 PM **Advances in the EPPS analysis of nuclear PDFs**

Speaker
Petja Paakkinen

12:00 – 12:20 PM **Progress on nCTEQ PDFs: Challenges with LHC & JLab data**

Speaker
Fredrick Olness

12:20 – 12:40 PM
Impact of single-inclusive hadron data on nuclear PDFs in nCTEQ15

Speaker
Mr Pit Duwentäster

12:40 – 1:00 PM
An updated global QCD analysis of nuclear PDFs using neural networks

Speaker
Jacob Ethier

1:00 PM

2:30 PM

Structure function and parton densities: DIS (II)

Session | **Location:** Brooklyn, NY, 333 Adams Street, Brooklyn, New York 11201, USA | **Conveners:** Benjamin Nachman, Maria Zurita, Katarzyna Wichmann

2:30 – 2:48 PM

Deeply inelastic scattering structure functions on a hybrid quantum computer

Speaker
Niklas Mueller

2:48 – 3:06 PM

Extracting the Neutron Structure Function from Global DIS Data with CJ15

Speaker
Shujie Li

3:06 – 3:24 PM

Impact of heavy-flavor DIS data on unpolarized PDFs

Speaker
Carlota Andres

3:24 – 3:42 PM

Combined analysis of inclusive/exclusive electroproduction from low to high x

Speaker
Astrid Hiller Blin

3:42 – 4:00 PM

Pion Parton Distributions Using Threshold Resummation

Speaker
Patrick Barry

4:00 PM

4:30 PM

Structure function and parton densities: EW bosons and Top quark

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4:30 – 4:48 PM

Top quark pair-production cross-section measurements in the di-lepton channel with the ATLAS detector

Speaker
Richard Hawkings

4:48 – 5:06 PM

Impact of top-quark pair production measurements on PDFs in the CT18 global QCD analysis

Speaker
Dr Marco Guzzi

5:06 – 5:24 PM

Measurement of the W-boson rapidity, helicity, and differential cross sections in CMS

Speaker
Marc Dunser

5:24 – 5:42 PM

Constraining the Sea Quark Distributions Through W and Z Cross Sections and Cross-Section Ratios Measured at STAR

Speaker
Matt Posik

5:42 – 6:00 PM **Precise predictions for high-energy neutrino propagation in matter**

Speaker
Juan Rojo

6:00 PM

Thu, March 26

9:00 AM

Structure function and parton densities: TMDs

Session | **Location:** Brooklyn, NY, 333 Adams Street, Brooklyn, New York 11201, USA | **Conveners:** Katarzyna Wichmann, Maria Zurita, Benjamin Nachman

9:00 – 9:18 AM

Measurement of the Drell-Yan transverse momentum dependence over a wide mass range at the LHC

Speaker
Bugra Bilin

9:18 – 9:36 AM

Drell-Yan spin and azimthal asymmetries at COMPASS

Speaker
Mr Saman Bastami

9:36 – 9:54 AM

TMD splitting functions in the parton branching method

Speaker
Lissa Keersmaekers

9:54 – 10:12 AM

DIS structure functions and unintegrated PDFs with off-shell matrix elements

Speaker
Aleksander Kusina

10:12 – 10:30 AM

The role of dynamical resolution in PB TMD distribution extracted from DIS precision data

Speaker
Sara Taheri Monfared

10:30 AM