



# XXVIII International Workshop on Deep Inelastic Scattering and Related Subjects

## Tuesday, March 24, 2020

### Structure function and parton densities: Updates of global PDF analyses (I) (9:00 AM - 10:30 AM)

-Conveners: Maria Zurita; Benjamin Nachman; Katarzyna Wichmann

time	[id] title	presenter
9:00 AM	[332] Progress in the ABM PDF fit	BLUEMLEIN, Johannes Prof. MOCH, Sven-Olaf
9:30 AM	[275] Insights from the CT18 NNLO global QCD analysis	HOBBS, Timothy
10:00 AM	[256] The new PDF sets in the MSTW/MMHT framework	Prof. THORNE, Robert

### Structure function and parton densities: PDFs from Lattice QCD (11:00 AM - 1:00 PM)

-Conveners: Katarzyna Wichmann; Maria Zurita; Benjamin Nachman

time	[id] title	presenter
11:00 AM	[238] Nonperturbative Collins-Soper Kernel from Lattice QCD	Dr ZHAO, Yong
11:15 AM	[280] Nucleon valence quark distributions from Lattice QCD using distillation	Dr KALLIDONIS, Christos
11:30 AM	[239] Nucleon and pion structure at physical pion mass	Dr KARPIE, Joe
11:45 AM	[279] Two-current Correlations and the Pion Valence Quark Distribution from Lattice QCD	EGERER, Colin
12:00 PM	[41] Lattice QCD determination of valence PDF of pion	KARTHIK, Nikhil
12:15 PM	[45] Unpolarized and Helicity Isovector Nucleon Parton Distribution Functions on Superfine Lattice	Mr GAO, Xiang
12:30 PM	[47] First Glance at Nucleon Polarized Gluon and Strange Parton Distribution Functions on the Lattice	Prof. LIN, Huey-Wen
12:45 PM	[276] Charting the future lattice-PDF synergy	HOBBS, Timothy

### Structure function and parton densities: Jets & PDFs (2:30 PM - 4:00 PM)

-Conveners: Maria Zurita; Benjamin Nachman; Katarzyna Wichmann

time	[id] title	presenter
2:30 PM	[291] Measurements of Jet Cross Sections in proton-proton Collisions at STAR	CHANG, Zilong
2:48 PM	[52] ATLAS Jet Measurements for PDFs and their Uncertainties	HANKACHE, Robert
3:06 PM	[53] Determination of proton parton distribution functions using ATLAS data	CAMARDA, Stefano
3:24 PM	[131] V+heavy flavor jets and constraints to PDFs in CMS	KHARCHILAVA, Avto
3:42 PM	[5] PDF constraints from dijet production at the LHC	NOCERA, Emanuele Roberto

### Structure function and parton densities: DIS (I) (4:30 PM - 6:00 PM)

**-Conveners: Katarzyna Wichmann; Maria Zurita; Benjamin Nachman**

time	[id] title	presenter
4:30 PM	[16] Study of proton parton distribution functions at high x	CALDWELL, Allen
4:45 PM	[242] Impact of full JLab 6 GeV DIS data on CTEQ-JLab (CJ) PDFs & nuclear effects	Dr FERNANDO, Ishara
5:00 PM	[198] The shape of the $\bar{d} - \bar{u}$ asymmetry from DIS and Drell-Yan data	MELNITCHOUK, Wally
5:15 PM	[7] Parton Distributions with Theory Uncertainties	NOCERA, Emanuele Roberto
5:30 PM	[199] Simultaneous extraction of spin-dependent and spin-averaged gluon PDFs	ZHOU, Yiyu
5:45 PM	[243] Critical analysis of Bayesian approaches to PDF uncertainties	MELNITCHOUK, Wally

# Wednesday, March 25, 2020

## Structure function and parton densities: Updates of global PDF analyses (II) (9:00 AM - 10:30 AM)

-Conveners: Katarzyna Wichmann; Maria Zurita; Benjamin Nachman

time	[id] title	presenter
9:00 AM	[6] Towards the NNPDF4.0 global analysis	ROJO, Juan
9:30 AM	[158] Recent QCD results from the xFitter project	GLAZOV, alexander
10:00 AM	[235] Benchmarking for PDF4LHC20	Prof. HUSTON, Joey

## Structure function and parton densities: Nuclear PDFs (11:00 AM - 1:00 PM)

-Conveners: Katarzyna Wichmann; Maria Zurita; Benjamin Nachman

time	[id] title	presenter
11:00 AM	[226] From bound nucleons to the free neutron	SEGARRA, Efrain
11:20 AM	[204] Re-analysis of neutrino DIS data in the global nuclear PDFs	Mr MUZAKKA, Khoirul Faiq
11:40 AM	[160] Advances in the EPPS analysis of nuclear PDFs	PAKKINEN, Petja
12:00 PM	[95] Progress on nCTEQ PDFs: Challenges with LHC & JLab data	OLNESS, Fredrick
12:20 PM	[203] Impact of single-inclusive hadron data on nuclear PDFs in nCTEQ15	Mr DUWENTÄSTER, Pit
12:40 PM	[48] An updated global QCD analysis of nuclear PDFs using neural networks	ETHIER, Jacob

## Structure function and parton densities: DIS (II) (2:30 PM - 4:00 PM)

-Conveners: Katarzyna Wichmann; Benjamin Nachman; Maria Zurita

time	[id] title	presenter
2:30 PM	[183] Deeply inelastic scattering structure functions on a hybrid quantum computer	MUELLER, Niklas
2:48 PM	[283] Extracting the Neutron Structure Function from Global DIS Data with CJ15	LI, Shujie
3:06 PM	[241] Impact of heavy-flavor DIS data on unpolarized PDFs	ANDRES, Carlota
3:24 PM	[46] Combined analysis of inclusive/exclusive electroproduction from low to high x	HILLER BLIN, Astrid
3:42 PM	[169] Pion Parton Distributions Using Threshold Resummation	BARRY, Patrick

## Structure function and parton densities: EW bosons and Top quark (4:30 PM - 6:00 PM)

-Conveners: Maria Zurita; Katarzyna Wichmann; Benjamin Nachman

time	[id] title	presenter
4:30 PM	[54] Top quark pair-production cross-section measurements in the di-lepton channel with the ATLAS detector	HAWKINGS, Richard
4:48 PM	[266] Impact of top-quark pair production measurements on PDFs in the CT18 global QCD analysis	Dr GUZZI, Marco
5:06 PM	[153] Measurement of the W-boson rapidity, helicity, and differential cross sections in CMS	DUNSER, Marc

5:24 PM	[197] Constraining the Sea Quark Distributions Through W and Z Cross Sections and Cross-Section Ratios Measured at STAR	POSIK, Matt
5:42 PM	[4] Precise predictions for high-energy neutrino propagation in matter	ROJO, Juan

# Thursday, March 26, 2020

## Structure function and parton densities: TMDs (9:00 AM - 10:30 AM)

-Conveners: Katarzyna Wichmann; Maria Zurita; Benjamin Nachman

time	[id] title	presenter
9:00 AM	[149] Measurement of the Drell-Yan transverse momentum dependence over a wide mass range at the LHC	BILIN, Bugra
9:18 AM	[166] Drell-Yan spin and azimuthal asymmetries at COMPASS	Mr BASTAMI, Saman
9:36 AM	[257] TMD splitting functions in the parton branching method	KEERSMAEKERS, Lissa
9:54 AM	[10] DIS structure functions and unintegrated PDFs with off-shell matrix elements	KUSINA, Aleksander
10:12 AM	[51] The role of dynamical resolution in PB TMD distribution extracted from DIS precision data	TAHERI MONFARED, Sara