



# DIS2022: XXIX International Workshop on Deep-Inelastic Scattering and Related Subjects

## Tuesday 3 May 2022

### WG1: Structure Functions and Parton Densities: Session 1 (09:20 - 18:50)

-Conveners: Barak Schmookler; Thomas Cridge; Klaus Rabbertz

time	[id] title	presenter
09:20	[68] The NNPDF4.0 global analysis and related studies	STEGEMAN, Roy
09:40	[146] MSHT20 global analysis - General review	HARLAND-LANG, Lucian
10:00	[436] The CTEQ-TEA global analysis of PDFs	Prof. NADOLSKY, Pavel
10:20	[148] PDF4LHC21: Benchmarking, Combination and Phenomenology	CRIDGE, Thomas
10:40	[32] Impact of jet-production data on the next-to-next-to-leading-order determination of HERAPDF2.0 parton distributions	WICHMANN, Katarzyna
11:00	Coffee break	
11:30	[437] Toward precise and robust unpolarized PDFs	COURTOY, Aurore NADOLSKY, Pavel HOU, Tie-Jiun
11:50	[417] Drell-Yan cross-sections with fiducial cuts - impact of linear power corrections and $\alpha_s$ -resummation in PDF determinations	GUIDA, Alessandro
12:10	[178] Parton distributions with scale uncertainties: a Monte Carlo sampling approach	KASSABOV-ZAHARIEVA, Z.D.
12:30	[186] MSHT20 Approximate N3LO Parton Distribution Functions with Theoretical Uncertainties	MCGOWAN, Jamie
12:50	[379] Theory uncertainties from missing higher orders in PDF fits	BONVINI, Marco
13:10	Lunch	
15:00	[19] Constraining the nuclear gluon PDF with heavy quark production data	DUWENTAESTER, Pit MUZAKKA, Khoirul Faiq
15:20	[245] Proton-PDF uncertainties in nuclear-PDFs fitting with p+Pb $W_{\pm}$ data	PAAKKINEN, Petja
15:40	[180] TUJU21: Nuclear PDFs with electroweak-boson data at NNLO	Dr HELENIUS, Ilkka
16:00	[56] nNNPDF3.0: Evidence for a modified partonic structure in heavy nuclei	GIANI, Tommaso
16:20	[348] Modification of partonic structure in a bound nucleon and global QCD analyses.	PETTI, Roberto
16:40	Coffee break	
17:10	[20] Short-range correlations and the phenomenological determination of nuclear PDFs	KUSINA, Aleksander
17:30	[411] Global QCD analysis of pion parton distributions with threshold resummation	BARRY, Patrick
17:50	[172] Estimating missing higher orders in transverse momentum distributions using resummations	RABEMANANJARA, Tanjona R.
18:10	[318] Emergence of resummation scales in the evolution of the QCD strong coupling and PDFs	Dr HAUTMANN, Francesco

18:30	[412] Emergence of pion and proton parton distributions	RODRÍGUEZ-QUINTERO, José RAYA MONTAÑO, Khépani
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# Wednesday 4 May 2022

## WG1: Structure Functions and Parton Densities: Session 2 (09:20 - 19:35)

-Conveners: Barak Schmookler; Klaus Rabbertz; Thomas Cridge

time	[id] title	presenter
09:20	[440] Report on the progress of TMD calculation of the proton system and heavy baryons within the BLFQ framework	HU, Zhi
09:40	[141] PDF bias and flavor dependence in TMD distributions	VLADIMIROV, Alexey
10:00	[214] PB TMD fits at NLO with dynamical resolution scale	Mrs SADEGHI BARZANI, Safura
10:20	[296] Non-perturbative contributions from PB-TMDs and CS kernel determination	BERMUDEZ MARTINEZ, Armando
10:40	[293] Towards mini-global parton-branching TMD fits	WICHMANN, Katarzyna TAHERI MONFARED, Sara
11:00	Coffee break	
11:30	[161] Probing proton structure at LHCb	XU, Menglin
11:50	[266] Determination of proton parton distribution functions using ATLAS data	GIULI, Francesco
12:10	[138] New constraints on PDFs, strong coupling, and SMEFT results using CMS jet data	MAKELA, Toni
12:30	[94] Measurement of the 1-jettiness event shape observable in deep-inelastic electron-proton scattering at HERA	BRITZGER, Daniel
12:50	[305] Preliminary results from neutron-tagged DIS measurements at JLab with CLAS12 and BAND	SEGARRA, Efrain
13:10	Lunch	
15:00	[232] Measurement of charmonium production in p + p and p + d interaction in the Fermilab SeaQuest experiment	LEUNG, Ching Him
15:20	[308] Inclusive Jet Cross Sections in $pp$ Collisions at $\sqrt{s} = 200$ and $510$ GeV	KALINKIN, Dmitry
15:40	[121] Measurements of $W^+/W^-$ cross-section ratio in $pp$ collisions at STAR	NAM, Jae
16:00	[188] Bayesian Monte Carlo extraction of sea asymmetry with SeaQuest and STAR data	COCUZZA, Christopher
16:20	[90] FORWARD MODELING FOR PARTON DENSITY EXTRACTION	CALDWELL, Allen
16:40	Coffee break	
17:10	[400] Reconstructing the Kinematics of Deep Inelastic Scattering with Deep Learning	NACHMAN, Ben BRITZGER, Daniel ARRATIA MUNOZ, Miguel Ignacio LONG, Owen
17:30	[439] EKO and yadism: new software tools for DGLAP and DIS	HEKHORN, Felix Anton
17:50	[357] Recent QCD results from the xFitter project	GIULI, Francesco
18:10	[312] NNLO interpolation grids for jet production at the LHC	RABBERTZ, Klaus

18:30	[365] The impact of various NNLO precision calculations of the Drell-Yan production on the proton PDFs in the CTEQ-TEA global analysis	ABLAT, Alim YUAN, C.-P. XIE, Keping SITIWALDI, Ibrahim DULAT, Sayipjamal
18:50	[24] A new generation of simultaneous fits to LHC data using deep learning	UBIALI, Maria

# Thursday 5 May 2022

## **WG1: Structure Functions and Parton Densities: Session 3 (09:00 - 13:30)**

-Conveners: Klaus Rabbertz; Barak Schmookler; Thomas Cridge

time	[id] title	presenter
09:20	[234] Moments of the longitudinal structure function of proton from lattice QCD simulations	Dr CAN, K. Utku
09:40	[425] Recent Lattice-QCD Calculations of Parton Distributions	LIN, Huey-Wen
10:00	[320] The extraction of light cone parton distributions from lattice quantum chromodynamics	ZAFEIROPOULOS, Sawvas
10:20	[413] Complementarity of experimental and lattice QCD data on pion parton distributions	BARRY, Patrick
10:40	[115] Pion parton distribution function in Minkowski space	DE PAULA, wayne YDREFORS, Emanuel
11:00	Coffee break	
11:30	[168] Gluon distributions in light mesons on the light front	LAN, Jiangshan Mr WU, Jiatong
11:50	[150] Impact of Physical Scheme heavy-quark mass corrections on DIS PDF fits	FLETT, Chris
12:10	[219] Intrinsic Charged-Current DIS at NNLO QCD	KUDASHKIN, Kirill
12:30	[48] The 3-loop anomalous dimensions from off-shell operator matrix elements	SCHÖNWALD, Kay
12:50	[184] DIS at 4-loops with differential equations	PELLONI, Andrea
13:10	[515] Studying nuclear matter with jets in the sPHENIX experiment at RHIC	LAJOIE, John