

QCD Evolution Workshop 2021

Monday, 10 May 2021

QCD: Monday session 1 - ZOOM (09:30 - 11:20)

-Conveners: Zhongbo Kang

time	[id] title	presenter
09:30	[1] Welcome	BERN, Zvi
09:35	[74] Introduction	KANG, Zhongbo
09:40	[2] Milestones of evolution	STERMAN, George
10:05	[3] Jets and Longitudinal Proton Structure at the EIC	BOUGHEZAL, Radja
10:30	[4] QCD Resummation for Jet Observables at Colliders	YUAN, Feng
10:55	[5] Projections of jet measurements at the EIC and recent HERA results	ARRATIA, Miguel

QCD: Monday Session 2 - ZOOM (11:50 - 13:30)

-Conveners: Alexei Prokudin

time	[id] title	presenter
11:50	[6] Overview of recent HERMES results on transverse-momentum dependent spin asymmetries	SCHNELL, Gunar
12:15	[7] Sivers and Qiu-Sterman functions from SIDIS and Drell-Yan data	ALEXEY, Vladimirov
12:40	[8] Reweighting the quark Sivers function with STAR jet data	FLORE, Carlo
13:05	[9] Gluon TMDs and J/ψ polarization in e p collisions	PISANO, Cristian

QCD: Monday session 3 - ZOOM (14:00 - 16:05)

-Conveners: Leonard Gamberg

time	[id] title	presenter
14:00	[10] Measurement of the Drell-Yan transverse momentum dependence over a wide mass range from CMS	MOUREAUX, Louis
14:25	[11] TMD Parton Distributions up to N ³ LL from Drell-Yan data	BOZZI, Giuseppe
14:50	[14] Using TMD formalism for predictions of the W and Z spectrum	SCIMEMI, ignazio
15:15	[12] Factorization & Resummation of Fiducial Power Corrections	MICHEL, Johannes K. L.
15:40	[13] Renormalization schemes for parton densities	ROGERS, Ted

Tuesday, 11 May 2021

QCD: Tuesday session 1 - ZOOM (09:30 - 11:10)

-Conveners: Martha Constantinou

time	[id] title	presenter
09:30	[15] Recent Progress in Large-Momentum Effective Theory	JI, Xiangdong
09:55	[16] QCD factorization for twist-three quasi(pseudo) parton distributions	BRAUN, Vladimir
10:20	[17] Precision calculation of the x-dependence of PDFs from lattice QCD	Dr ZHAO, Yong
10:45	[18] Determination of the Collins-Soper Kernel from Lattice QCD	SCHLEMMER, Maximilian

QCD: Tuesday session 2 - ZOOM (11:40 - 13:20)

-Conveners: Ian Cloet

time	[id] title	presenter
11:40	[19] Recent Progress in Lattice Parton Distribution Calculations	Prof. LIN, Huey-Wen
12:05	[20] x-dependent GPDs from Lattice QCD	CONSTANTINO, Martha
12:30	[21] Valence PDF of pion from lattice QCD	MUKHERJEE, Swagato
12:55	[22] Gluon distribution from lattice QCD	SUFIAN, Raza

QCD: Tuesday session 3 - ZOOM (13:50 - 16:20)

-Conveners: simonetta liuti

time	[id] title	presenter
13:50	[23] Transverse spin sum rule	LORCÉ, Cédric
14:15	[24] Twist-3 GPDs and Orbital Angular Momentum	Dr SHIELLS, Kyle
14:40	[25] Exclusive massive photon-pair production in meson-baryon collisions	YU, Zhite
15:00	[26] Lorentz Invariance and Equation of Motion Relations for polarized GTMDs and Angular Momentum	ENGELHARDT, Michael
15:20	[27] Two-loop coefficient function for DVCS: Vector contributions	SCHONLEBER, Jakob
15:40	[28] Revisiting GPD evolution equations	Dr BERTONE, Valerio

Wednesday, 12 May 2021

QCD: Wednesday session 1 - ZOOM (09:30 - 11:10)

-Conveners: Yoshitaka Hatta

time	[id] title	presenter
09:30	[30] Update on helicity at small x	KOVCHegov, Yuri
09:50	[31] Single Logarithmic Contribution to Small-x Helicity Evolution	TAWABUTR, Yossathorn
10:05	[32] Quark Sivers Function at Small-x: Return of a Spin-Dependent Odderon	SANTIAGO, Melvin
10:20	[33] High-energy OPE for polarized DIS	CHIRILLI, Giovanni Antonio
10:45	[34] Threshold resummation in forward hadron production	LIU, xiaohui

QCD: Wednesday session 2 - ZOOM (11:40 - 13:20)

-Conveners: Ivan Vitev

time	[id] title	presenter
11:40	[35] Towards a unification of gluon distributions at small and moderate x	Dr MEHTAR-TANI, Yacine
12:05	[36] ITMD factorization and its recent applications	KUTAK, Krzysztof
12:30	[37] Small-x dijet/dihadron production the EIC: beyond the TMD factorization and progress towards NLO	SALAZAR, Farid
12:55	[38] Forward dijets in proton-nucleus collisions at next-to-leading order: the real corrections	MULIAN, Yair

QCD: Wednesday session 3 - ZOOM (13:50 - 15:55)

-Conveners: Alexei Prokudin

time	[id] title	presenter
13:50	[39] Gauge-invariant TMD factorization for Drell-Yan hadronic tensor at small-x	BALITSKY, Ian
14:15	[40] Evolution with transverse momentum dependent splitting functions	Dr HENTSCHINSKI, Martin
14:40	[41] Exclusive Double Drell-Yan factorization and GTMDs	GUTIERREZ, Patricia
15:05	[42] JIMWLK Evolution, Lindblad Equation and Quantum-Classical Correspondence	LI, Ming
15:30	[43] Entanglement, partial set of measurements, and diagonality of the density matrix in the parton model	SKOKOV, Vladimir

Thursday, 13 May 2021

QCD: Thursday session 1 - ZOOM (09:30 - 11:10)

-Conveners: Dingyu Shao

time	[id] title	presenter
09:30	[44] Leading jets and energy loss	RINGER, Felix
09:55	[45] Rethinking Jets with the Lightray OPE	MOULT, Ian
10:20	[46] The Time-reversal Odd Side of a Jet	XING, Hongxi
10:45	[47] Azimuthal decorrelation in V+jet production with the WTA axis	RAHN, Rudi

QCD: Thursday session 2 - ZOOM (11:40 - 13:20)

-Conveners: Kyle Lee

time	[id] title	presenter
11:40	[48] The track functions and their QCD evolution	WAALEWIJN, Wouter
12:05	[49] Two-loop splitting in double parton distributions: the colour non-singlet case	PLOSSL, Peter
12:30	[50] Two-loop evolution equation for the B-meson distribution amplitude	JI, Yao
12:55	[51] Energy-energy correlators in DIS (as a probe to TMDPDFs)	MAKRIS, Yiannis

QCD: Thursday session 3 - ZOOM (13:50 - 15:40)

-Conveners: John Terry

time	[id] title	presenter
13:50	[52] Probing the Quark Gluon Plasma with jets	VAIDYA, varun
14:15	[53] Effects of Non-Gaussian in-medium transverse momentum broadening on di-jet observables	ROHRMOSER, Martin
14:40	[54] Recent updates from JAM collaboration	SATO, nobuo
14:50	[55] Gluon helicity distributions	ZHOU, Yiyu
15:00	[75] Isovector EMC effect from global QCD analysis with MARATHON data	COCUZZA, Christopher
15:10	[56] Extractions of Collinear and TMD Parton Distributions in the Pion	BARRY, Patrick
15:20	[57] Small-x Helicity Phenomenology	ADAMIAK, Daniel
15:30	[58] Phenomenological Study of the Origin of SSAs and Extraction of the Tensor Charge	PITONYAK, Daniel

Friday, 14 May 2021

QCD: Friday session 1 - ZOOM (09:30 - 11:35)

-Conveners: Leonard Gamberg

time	[id] title	presenter
09:30	[59] TMDs for spin-1 hadrons	KUMANO, Shunzo
09:55	[60] Space-Time Reciprocity Relations and Fragmentation	NEILL, Duff
10:20	[61] Phenomenological extraction of a universal TMD FF from BELLE single hadron production data	BOGLIONE, Mariaelena
10:45	[62] Hadron production in e+e- collisions within the helicity formalism and the Λ polarizing FF	Prof. D'ALESIO, Umberto
11:10	[63] Gravitational Form Factors and Mechanical Properties of the Proton in a Diquark Model	Dr MUKHERJEE, Asmita

QCD: Friday session 2 - ZOOM (12:05 - 13:45)

-Conveners: Anatoly Radyushkin

time	[id] title	presenter
12:05	[64] Accessing the neutron charge radius through electron scattering	SPARVERIS, Nikos
12:30	[65] Vector meson production in the polarized quark fragmentation process	KERBIZI, Albi
12:55	[66] The Energy Momentum Tensor and the D-term	RODINI, Simone
13:20	[67] QCD Analysis of Near-Threshold Photon-Proton Production of Heavy Quarkonium	GUO, Yuxun

QCD: Friday session 3 - ZOOM (14:15 - 16:25)

-Conveners: Zhongbo Kang

time	[id] title	presenter
14:15	[68] Single spin asymmetry at two loops	HATTA, Yoshitaka
14:40	[69] Correlation effects in hadronization	AVAGYAN, Harut
15:05	[70] TMDs in the covariant parton model with a generalized systematic approach	BASTAMI, Saman
15:30	[71] Lorentz invariance relation anomalies and intrinsic parton transverse momentum	ASLAN, Fatma
15:50	[72] A Comprehensive framework for deeply virtual exclusive experiments	LIUTI, simonetta
16:10	[73] Summary and future plans	PROKUDIN, Alexei