

Lattice PDF Workshop, 6–8 April 2018

Friday, April 6, 2018 - Sunday, April 8, 2018

College Park Marriott Hotel and Conference Center

Scientific Program

The workshop starts on Friday morning around 9:00am, and finishes on Sunday around noon:

Lattice PDF Workshop, Final Agenda
(10 minutes discussion after each talk)
(most talks are 30+10)

Friday, theory developments

Morning:

Chair, Feng Yuan

09:00-09:30 Xiangdong Ji, Introduction and Remarks on LaMET

09:40-10:10 Jianhui Zhang, Renormalization in the LaMET

10:20-11:00 Break and Taking Photo

Chair, Iain Stewart

11:00-11:30 Jiunn-Wei Chen, Power Corrections and the Meson Distribution Amplitudes

11:40-12:10 Lu-Chang Jin, OPE Analysis of Quasi-PDFs

12:30-2:00pm Lunch Break

Afternoon:

Chair, Jianwei Qiu

2:00-2:30 Martha Constantinou, Perturbative and non-perturbative renormalization for QPDF operators

2:40-3:10 Yong Zhao, Matching the quasi parton distribution in a momentum subtraction scheme

3:20-3:50 Jeremy Green, Auxiliary field approach for nonperturbative renormalization

4:00-4:30 Break

Chair: Andreas Metz

4:30-5:00 Fernanda Steffens, Particle number conservation in different matching procedures

5:10-5:40 Markus Ebert, Quasi TMDPDFs

5:50-6:20 Joseph Karpie, Pseudo Parton Distributions on the lattice

6:30- Dinner on your own

Saturday, lattice developments

Morning:

Chair, Karl Jansen

09:00-09:30 Huy-Wen Lin, Improving PDF Fits with Lattice-QCD Calculations

09:40-10:10 Krzysztof Cichy, Reconstruction of light-cone parton distribution functions from lattice QCD simulations at the physical point

10:20-10:50 Break

Chair, Will Detmold

10:50-11:10 Yu-Sheng Liu, Lattice Calculation on Quasi-PDF at the physical pion mass

11:20-11:50 Zohreh Davoudi, Higher moments of parton distribution functions from lattice QCD

12:00-12:20 David Lin, Pion light-cone distribution amplitude from lattice QCD with valence heavy quark

12:30-2:00pm Lunch Break

Afternoon:

Chair, Taku Izubuchi

2:00-2:30 Constantia Alexandrou, Understanding the structure of the proton through large-scale simulations

2:40-3:10 Gunnar Bali, Pion Distribution Amplitudes from Euclidean Correlation Functions

3:20-3:50 Yi-Bo Yang, Q-PDF with non-perturbative renormalization

4:00-4:30 Break

Chair: Peter Petreczky

4:30-5:00 Christopher Monahan, Putative finite volume effects for spatially-nonlocal operators

5:10-5:40 Andre Walker-Loud, Nucleon's Axial Charge

6:00-8:00 Banquet

Sunday, other developments and more discussions

Morning:

Chair, David Richards

09:00-09:30 Jianwei Qiu, Extract partonic structure from hadronic lattice cross sections

09:40-10:10 Anatoly Radyushkin, Structure of pseudo- and quasi-PDFs

10:20-10:50 Break

Chair, Xiangdong Ji

10:50-11:20 Keh-Fei Liu, Comments on current-current correlator

11:30-11:50 Jian Liang, Lattice Calculation of Hadronic Tensor

12:00-12:30 Round table discussions led by Karl Jansen

(Panels: X. Ji, J.-W. Chen, J. Qiu, A. Radyushkin, F. Steffens, etc)

12:30-2:00pm Lunch Break

Early Afternoon: Adjorn