

Preface The QCD Evolution Workshop 2017

Leonard Gamberg Penn State University Berks E-mail: lpg10@psu.edu

Alexei Prokudin Penn State University Berks & Jefferson Lab E-mail: prokudin@jlab.org

Jianwei Qiu Jefferson Lab E-mail: jqiu@jlab.org

Anatoly Radyushkin Old Dominian University & Jefferson Lab E-mail: radyush@jlab.org

This is the Preface to the Proceedings of the QCD Evolution Workshop 2017, Thomas Jefferson National Accelerator Facility, May 22 - 26, 2017.

QCD Evolution 2017 22-26 May, 2017 Jefferson Lab Newport News, VA - USA

© Copyright owned by the author(s) under the terms of the Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International License (CC BY-NC-ND 4.0).

Preface

The QCD Evolution workshop was was held May 22 - 26, 2017 at the Thomas Jefferson National Accelerator Facility (Jefferson Lab) in Newport News, Virginia, USA. The workshop was organized by Jefferson Lab, with additional support from Brookhaven National Lab, Los Alamos National Lab, Pennsylvania State University-Berks, and Old Dominion University. The workshop is a continuation of a series of workshops held during six consecutive years 2011, 2012, 2013, 2015 at Jefferson Lab, 2014 in Santa Fe, New Mexico, and 2016 at National Institute for Subatomic Physics (Nikhef) in Amsterdam.

The rapid developments in our understanding of the evolution of parton distributions (PDFs) including low-*x*, transverse momentum parton distribution and fragmentation functions (TMDs), generalized parton distribution functions (GPDs), higher-twist correlation functions, and the associated progress in perturbative QCD, lattice QCD, and soft collinear effective field theory (SCET), were the focus of this year's meeting. Special attention was also given to participation by young researchers, postdocs, students. Also, many of the topics covered are of special importance for a future Electron Ion Collider (EIC).

This year's workshop attracted 65 registered participants. The Organizing Committee thanks the speakers, and all those who participated in the conference for the stimulating atmosphere that prevailed. We trust the written versions of the talks presented in the Proceedings of Science (PoS) captures the exciting physics topics covered at the workshop. In the Preface you will find a photograph of the conference participants, and an image of the workshop poster.

Thanks are due to the people who worked hard to organize the conference and make it a success. Help from the Staff Services of Jefferson Lab was indispensable. We would like to express our special thanks to, Stephanie Vermeire, Samantha Amell, and Mary Fox for all their efforts before, during and since the conference. Also, we thank the local Organizing Committee of the QCD Evolution Workshop 2017, Jianwei Qiu (co-chair), Alexei Prokudin (co-chair), Harut Avakian, Ian Balitsky, Bipasha Chakraborty, Leonard Gamberg, Zhongbo Kang, Anatoly Radyushkin, Nobuo Sato, Andrea Signori, and Ivan Vitev. Finally, we express our sincere appreciation to Dr. Keith Hillkirk, Chancellor of Penn State University Berks, for support from the Penn State Berks Undesignated Gift Fund, and to Brookhaven National Lab, Jefferson Lab, and Old Dominion University for their support of the workshop.

Leonard Gamberg Alexei Prokudin Jianwei Qiu Anatoly Radyushkin

30 December 2017

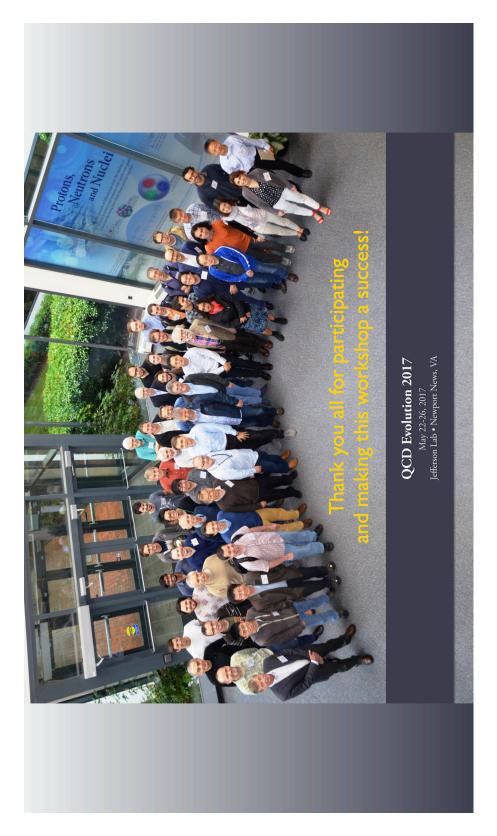


Figure 1: QCD Evolution 2017 Participants

GCD evolution

Organizing Committee:

Alexei Prokudin (JLab, Penn State Berks), co-chair

Jianwei Qiu (JLab), co-chair

Harut Avakian (JLab)

Ian Balitsky (JLab, ODU)

Bipasha Chakraborty (JLab)

Leonard Gamberg (Penn State Berks)

Zhongbo Kang (UCLA)

Anatoly Radyushkin (JLab, ODU)

Nobuo Sato (JLab, UConn)

Andrea Signori (JLab)

Ivan Vitev (LANL)

Jefferson Lab

May 22-26, 2017

Newport News, VA

Jefferson Lab

Jefferson Lab

www.jlab.org/conferences/qcd-evolution2017

Figure 2: QCD Evolution 2017 Poster