PREFACE

These are the proceedings of the QCD Evolution Workshop: From collinear to non collinear case, which was held 8–9 April 2011 at the Thomas Jefferson National Accelerator Facility (Jefferson Lab) in Newport News, Virginia, USA. The workshop was sponsored by Jefferson Lab.

In recent years, the concept of parton distributions has evolved from the original form of distributions for parton momenta collinear to that of the hadron. In particular, Generalized Parton Distributions contain information about the impact parameter distribution of partons necessary in description of hard exclusive processes. For hard inclusive processes, the non-collinear dynamics is described by the Transverse Momentum Dependent (TMD) distributions that attract now a vivid experimental interest, with the theory of TMD's being a rapidly developing area of QCD. The transverse degrees of freedom also play an important role at high energies, where the physics of color dipoles is crucial for studies of such phenomena as gluon saturation. The goal of the workshop was to bring together theorists working in these areas, with emphasis on recent studies of QCD evolution of parton distributions.

The Organizing Committee thanks the speakers and participants at the conference for the stimulating atmosphere that prevailed. We trust the written versions of the talks presented in the volume will reproduce some of that feeling.

Thanks are also due to the people who worked hard to organize the conference and make it a success. The Conference group at Jefferson Lab was indispensable. Allow us to give special thanks to Ruth Bizot, Cynthia Lockwood, Marty Hightower, Stephanie Vermeire and Mary Fox for all their efforts before, during and since the conference.

Ian Balitsky
Alexei Prokudin
Anatoly Radyushkin
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