PREFACE

These are the proceedings of the QCD Evolution Workshop, which was held 14–17 May 2012 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 description of the nucleon's transverse spin and momentum structure given in terms of partonic sub-structure has led to rapid development of QCD theory. In hard semi-inclusive processes involving non-collinear dynamics these correlations are described by transverse momentum parton distributions and fragmentation functions (TMD-PDFs and TMD-FFs). The transverse degrees of freedom also play a crucial role in high energy collider experiments through moments of TMD PDFs and FFs or multi-parton correlations. With the recent development in our understanding of the evolution of parton distributions in both the collinear description and the TMD description. The goal of the workshop was to bring together theorists and experimentalists working in these areas in the context of phenomenology, soft collinear effective theories, resummation and low- x physics.

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, McLaina Evans and Mary Fox for all their efforts before, during and since the conference.

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