



Contribution ID: 24

Type: **Oral contribution**

## Parton Distributions and One-Loop Matching

*Thursday, 24 September 2015 16:50 (20 minutes)*

Recent researches showed that the light-cone parton distributions can be accessed by investigating the quasi distributions which are space-like correlation functions, hence can be directly simulated on the lattice. In this talk, I will show the one-loop matching between the light-cone and quasi PDFs, GPDs. The matching condition is essential to extract the light-cone distribution from the quasi distributions. I will also discuss the light-cone and quasi heavy meson distribution amplitude which is perturbatively calculable through NRQCD refactorization.

**Primary author:** Dr XIONG, Xiaonu (INFN, Sezione di Pavia, Pavia, 27100)

**Co-authors:** Prof. SCHÖAFER, Andreas (Institut für Theoretische Physik, Universität Regensburg, D-93040 Regensburg, Germany); Dr ZHANG, Jian-Hui (Institut für Theoretische Physik, Universität Regensburg, D-93040 Regensburg, Germany); Prof. JI, Xiangdong (INPAC, Department of Physics and Astronomy, Shanghai Jiao Tong University, Shanghai, 200240, P. R. China; Maryland Center for Fundamental Physics, Department of Physics, University of Maryland, College Park, Maryland 20742, USA); Dr ZHAO, Yong (Maryland Center for Fundamental Physics, Department of Physics, University of Maryland, College Park, Maryland 20742, USA)

**Presenter:** Dr XIONG, Xiaonu (INFN, Sezione di Pavia, Pavia, 27100)

**Session Classification:** PARALLL SESSION III