

Wrapping-up REF2015

- goal of this series of Workshops:
 - organize a discussion between the experts of the nucleon structure based on the [Transverse-Momentum Dependent framework \(TMD\)](#), experts dealing with the [unintegrated Parton Distribution Functions \(uPDF\)](#) in the small- x regime as well as experts on [\$p_t\$ resummation approaches and parton showers](#)
- The key topics of the REF Workshop are:
 - TMD parton densities
 - TMD fragmentation functions
 - TMDs and multiparton interactions
 - TMD phenomenology with focus on LHC
 - TMD - tools (TMDlib, MC generators etc)

Previous workshops and Achievements

- Previous discussion meetings and workshops were
 - 2-5 Nov 2015 Hamburg
 - 1-3 June 2015 Amsterdam (The Netherlands)
 - 8-11 December 2014 in Antwerp (Belgium)
 - 23-24 June 2014 Antwerp (Belgium)
- **Transverse momentum dependent (TMD) parton distribution functions: status and prospects** [arXiv:1507.05267](https://arxiv.org/abs/1507.05267)
- **Achievements of previous workshop discussions:**
TMDlib (TMDlib [EPJC 74 (2014) 3220 [arXiv:1408.301]) and TMDplotter

REF workshops – future

- very interesting mix of contributions and discussions from different sides
 - perhaps could try to have even more interactions between communities
- should continue with this series of workshops ?

- Need to define goals and milestones and benchmarks
 - provide TMDs in a form usable for any (knowledgable) user:
 - TMDlib and TMDplotter project
 - development of common tools for calculations
 - benchmarks for TMD evolution: non-pert and perturbative
 - benchmarks for TMD calculations for specific processes

Thanks

- Thanks a lot for coming
- Thanks a lot for the interesting talks and discussions
- Thanks a lot to the program committee:
 - Ami Rostomyan, Igor Cherednikov, Markus Diehl, Francesco Hautmann, Hannes Jung, Piet Mulders, Zoltan Nagy, Frank Tackmann
- and local organizing committee:
 - Ami Rostomyan, Markus Diehl, Francesco Hautmann, Hannes Jung, Frank Tackmann
- Thanks a lot to Brigit & Gabriele for the support in the background !

Have a good trip back home !