

# Joint 20th International Workshop on Hadron Structure and Spectroscopy and 5th workshop on Correlations in Partonic and Hadronic Interactions



Contribution ID: 5

Type: **not specified**

## Extraction of flavour dependence in unpolarized TMDs

*Tuesday 1 October 2024 12:15 (20 minutes)*

A deeper understanding of the three-dimensional structure of nucleons requires separating how different flavours contribute to transverse momentum distributions. We present an initial step in this exploration, with the latest results by the MAP Collaboration on the extraction of unpolarized quark Transverse Momentum Dependent Distributions and Fragmentation Functions from global fits of Drell-Yan and SIDIS data. With the introduction of flavour dependence in nonperturbative models, we obtain significant differences in the TMD shape among different quarks and final-state hadrons.

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**Session Classification:** Tuesday Morning