



Contribution ID: 219

Type: **not specified**

Probing gluon TMDs with quarkonia

Tuesday, April 17, 2018 11:30 AM (25 minutes)

In this talk, I will discuss the relevance of using quarkonium-hadroproduction data in order to study the gluon TMDs in unpolarised protons. I will discuss the case of single η_c production as well as that of $J/\psi(\Upsilon) + \gamma$ and J/ψ pairs. In particular, I will discuss our first extraction of f_1^g using the di- J/ψ LHCb data and argue that $h_1^{\perp g}$ can be extracted in the near future with data taken in the CMS and ATLAS acceptances. I will also discuss how the newly introduced matching procedure based on an inverse-error weighting can help connect such studies with computations made in the collinear factorisation.

Primary authors: Dr PISANO, Cristian (University of Pavia); LANSBERG, Jean-Philippe (IPN Orsay, Paris Sud U. / IN2P3-CNRS); KASEMETS, Tomas (JGU Mainz); Dr G. ECHEVARRÍA, Miguel (INFN Pavia); SCARPA, Florent (IPN Orsay - Paris-Sud U. - CNRS/IN2P3); SIGNORI, Andrea (VU University Amsterdam - Nikhef); SCHLEGEL, Marc (New Mexico State University)

Presenter: LANSBERG, Jean-Philippe (IPN Orsay, Paris Sud U. / IN2P3-CNRS)

Session Classification: WG6: Spin and 3D structure

Track Classification: WG6: Spin and 3D structure