

# Probing TMDs in heavy quarkonium production

*Friday, 3 June 2016 11:00 (30 minutes)*

We investigate the effect of unpolarized transverse momentum dependent gluon parton distributions as well as the effect of linearly polarized gluons on transverse momentum and rapidity distributions of  $J/\psi$  and  $\Upsilon$  production within the framework of transverse momentum dependent factorization employing color evaporation model (CEM) in unpolarized proton-proton collision. We estimate the transverse momentum and rapidity distributions of  $J/\psi$  and  $\Upsilon$  at LHCb, RHIC and AFTER energies using TMD evolution formalism.

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**Session Classification:** Talks