

# Study on the PDF comparisons for quarkonium + gamma production at the LHC and FCC energies

*Tuesday 20 March 2018 16:00 (1 hour)*

The quarkonium plus photon production in coherent hadron - hadron interactions at LHC is studied using the non-relativistic QCD (NRQCD) factorization formalism. We investigate a set of kinematic distributions and compute the total cross sections for  $M + \gamma$  ( $M = J/\Psi$  and  $\Upsilon$ ) production. Our results demonstrate the feasibility of such process in the LHC kinematic regime and explore the possibilities for the Future Circular Collider, where higher event yields can be achieved.

## Summary

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