QCD@LHC2022
28 November 2022 to 2 December 2022
IJCLab Orsay, France

Contribution ID: **190** Type: **not specified**

# Quarkonium production in pp and pPb collisions at the LHC

*Tuesday 29 November 2022 16:00 (15 minutes)*

Quarkonia has been long regarded as golden probes to study the fundamental (de)confinement of Quantum Chromodynamics (QCD). Understanding their production provided crucial information for the physics on non-perturbative QCD factorization. However, the mechanism behind the production of various quarkonium states are still under investigation even after ˜50 years from the discovery of the J/Psi meson in 1974, the "November Revolution". In this talk, the recent results for inclusive quarkonium production in proton-proton collisions at the LHC, reported by the ALICE, ATLAS, CMS, and LHCb Collaborations, are reviewed and discussed in terms of production mechanism such as Colour Evaporation Model (CEM), Colour-Singlet Model (CSM), and non-relativistic QCD (NRQCD).

## Declaration

I certify that I have checked that I am authorised to submit the abstract with the listed co-authors with their current affiliations

## Change of Speaker

I understand that change of speaker is allowed provided that no participant gives more than one talk. Otherwise, we will ask the speaker to choose between one or the other abstract to be presented.

**Author:** PARK, Jaebeom (Korea University (KR))

**Presenter:** PARK, Jaebeom (Korea University (KR))

**Session Classification:** Parallel C - WG4: 2

**Track Classification:** WG4: Heavy-quark and Quarkonium Physics