



Contribution ID: 18

Type: **not specified**

Small x gluon PDF from LHCb exclusive J/ψ data

Thursday, 14 October 2021 11:00 (15 minutes)

The exclusive J/ψ production process within a 'tamed' collinear factorisation approach to NLO is described, giving a stable and reliable theoretical prediction owing to the resummation of a class of large logarithms and implementation of a crucial low Q_0 subtraction. A comparison with data from HERA and LHCb is made, before an extraction of a low $x \sim 3 \cdot 10^{-6}$ and low scale $\mu^2 \sim 2.4 \text{ GeV}^2$ gluon PDF is obtained via profiling of global PDF sets. The significance of this result for low x global gluon PDF fits is quantified.

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Session Classification: WG4: small- x and diffraction

Track Classification: WG4: Small- x and Diffraction