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## Quarkonium production at ultra-high transverse momentum at the LHC

I will present our novel study of quarkonium-production at ultra-high transverse momentum at the LHC. We have performed a complete computation at NLO  $(\alpha_s^3)$ + NLL  $(\alpha_s^{n+1} \ln^n(p_T/m_H))$  using leading-power Fragmentation Functions (FFs). We have performed a thorough analysis of the theoretical uncertainties including those from the FF modelling, the scales  $(\mu_R, \mu_F, \mu_{frag})$  and the PDF uncertainties. We have revisited all the channels previously studied with FFs at LO+LL. Our analysis of the recent CMS and ATLAS data seems to reveal a different scaling behaviour between 50 and 300 GeV.

## Secondary track

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