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Probing gluon TMDs with quarkonia

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In this talk, I will discuss the relevance of using quarkonium-hadroproduction data in order to study the gluon TMDs in unpolarised protons. I will discuss the case of single η_c production as well as that of $J/\psi(\Upsilon) + \gamma$ and J/ψ pairs. In particular, I will discuss our first extraction of f_1^g using the di- J/ψ LHCb data and argue that $h_1^{\perp g}$ can be extracted in the near future with data taken in the CMS and ATLAS acceptances. I will also discuss how the newly introduced matching procedure based on an inverse-error weighting can help connect such studies with computations made in the collinear factorisation.

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