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Associated-quarkonium production

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In this talk, I discuss the growing interest to measure associated-quarkonium production in a number of channels at the LHC. Whereas back-to-back production of quarkonium + isolated photon provides a unique way to extract gluon TMDs [1], observables such as quarkonium + W/Z can be of great help to better understand the quarkonium production mechanism as well as to shed light on double-parton scatterings. Along these lines, quarkonium-pair production [4] is also a potentially rich source of information which has only started to be harvested.

References:

[1] Accessing the Transverse Dynamics and the Polarization of the Gluons inside the Proton at the LHC.
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[2] Next-to-leading-order QCD corrections to the yields and polarisations of J/Psi and Upsilon directly produced in association with a Z boson at the LHC.
By B. Gong, J.P. Lansberg, C. Lorce, J.X. Wang.
[arXiv:1210.2430 [hep-ph]]. JHEP 1303 (2013) 115.

[3] Reassessing the importance of the colour-singlet contributions to direct J/psi + W production at the LHC and the Tevatron.
By J.P. Lansberg, C. Lorce.
[arXiv:1303.5327 [hep-ph]]. Phys.Lett. B726 (2013) 218-222.

[4] Production of J/psi+eta(c) vs. J/psi+J/psi at the LHC: Impact of Real alpha_sˆ5 corrections.
By J.P. Lansberg, H.-S. Shao.
[arXiv:1308.0474 [hep-ph]]. Phys.Rev.Lett. 111 (2013) 122001.

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