

Quarkonium polarisation in heavy-ion collisions: where do we stand and where to go ?

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IJCLab Orsay – Paris Saclay U. – CNRS

December 16 , 2020

Polarisation measurements in ee , ep , pp and heavy-ions collisions
IJCLab Orsay, December 14-18, 2020



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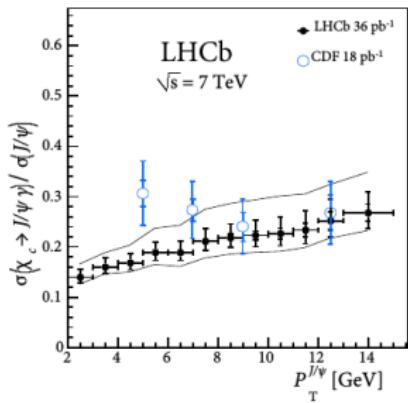
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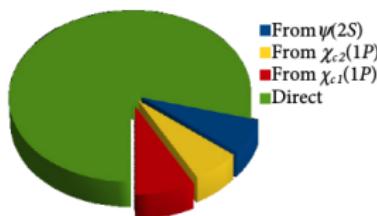
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- Quite some reasons to expect R_{pA} vs $\cos \theta$ not be constant

Feed downs from the excited states

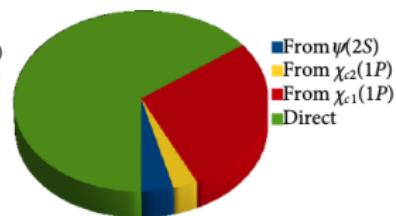
JPL. arXiv:1903.09185 [hep-ph] (Phys. Rept. 889 (2020) 1)



(a)



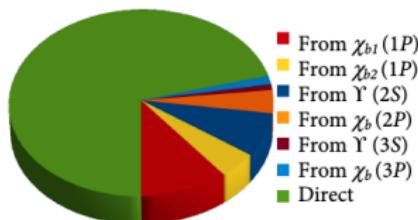
(b) Low P_T J/ψ



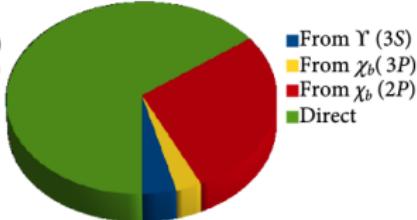
(c) High P_T J/ψ

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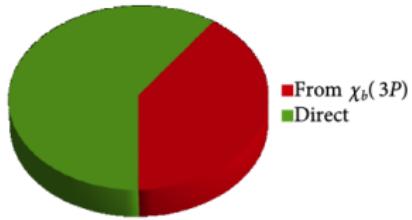
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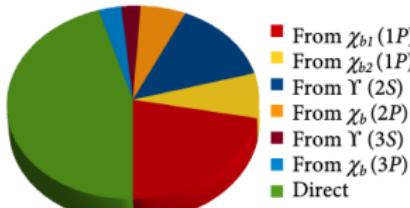
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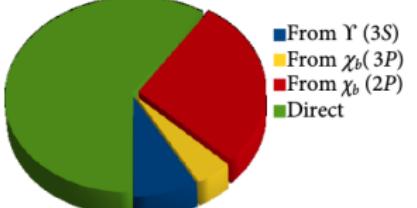
(b) Low P_T $\Upsilon(2S)$



(c) Low P_T $\Upsilon(3S)$



(d) High P_T $\Upsilon(1S)$



(e) High P_T $\Upsilon(2S)$



(f) High P_T $\Upsilon(3S)$