

STUDY OF UPSILON-PION AZIMUTHAL CORRELATION

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- The aim is to study production mechanism of Upsilon
- The bound state is formed through color-singlet or color-octet channel

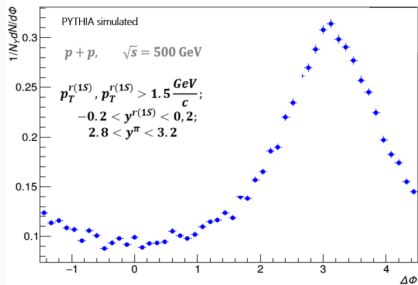


Figure 1: Upsilon-Pion azimuthal correlation using PYTHIA Generator.

Taken from: O. Mezhenka, SQM 2024.

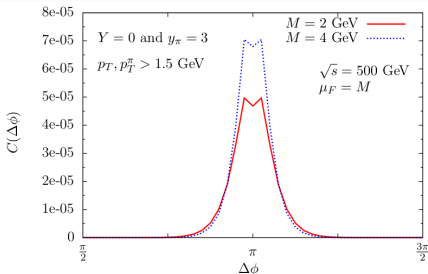


Figure 2: The correlation function $C(\Delta\varphi)$ in p+p collision at $\sqrt{s} = 500$ GeV.

Taken from: E. Basso et al., PoS, EPS-HEP2015, 191 (2016).

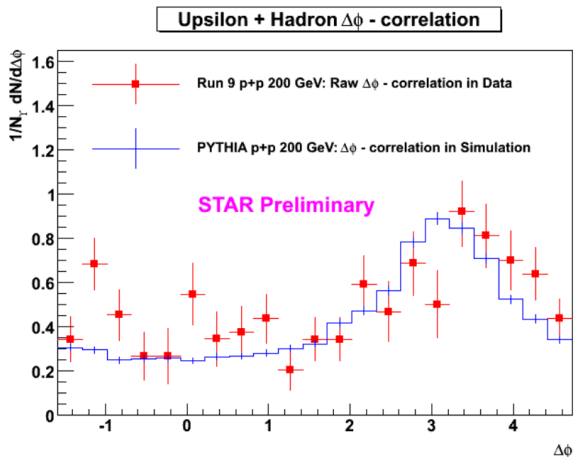


Figure 3: Upsilon-Hadron azimuthal correlation measured by STAR.

Taken from: M. C. Cervantes, J. Phys.: Conf. Ser. 316 012023 (2011).