



Contribution ID: 377

Type: Poster

chi_c measurement in PHENIX: the present and the future.

Thursday 16 August 2012 16:00 (2 hours)

Measurement of different quarkonia states is a well known tool for study of hot and dense matter produced in heavy ion collisions.

The PHENIX experiment at RHIC have successfully measured χ_c production in p+p and d+Au collisions at 200 GeV. The χ_c decays were reconstructed through their decays to J/Psi+gamma. Results from the 2006 p+p and 2008 d+Au datasets at 200GeV will be presented.

The accuracy and pT reach of these measurements potentially can be improved if one uses conversions of soft photons from χ_c decays to e+e- pairs. These pairs can be then detected by the VTX detector recently installed in PHENIX. We present a simulation study of such measurement, and comparison to existing measurements.

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Session Classification: Poster Session Reception

Track Classification: Heavy flavor and quarkonium production