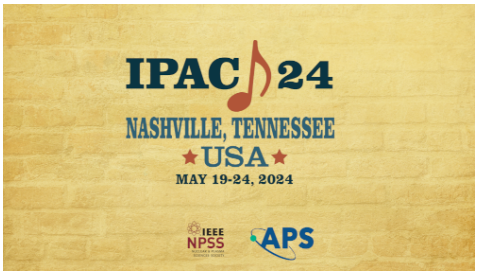

Contribution ID: **794** Contribution code: **MOPC02** Type: **Poster Presentation**

ZDC effective cross section for Run 16 gold-gold collisions in RHIC

Monday, 20 May 2024 16:00 (2 hours)

The 2016 RHIC Au-Au run took place from February 8 to June 27, 2016. Four so-called vernier scans were performed at 100 GeV per beam, with γ=107.396 at flattop at one of the interaction points, IP6. During this type of procedure, one beam is swept across the other, first horizontally and then vertically, recording the interaction rate as a function of the beam to beam distance. From that data, the effective cross section of the ZDC can be derived. This note discusses the results as well as the systematic uncertainties of the effective cross section.

Footnotes

Funding Agency

Paper preparation format

LaTeX

Region represented

North America

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Session Classification: Monday Poster Session

Track Classification: MC1: Colliders and other Particle and Nuclear and Physics Accelerators: MC1.A01 Hadron Colliders