

Contribution ID: 63

Type: Poster presentation

Mechanical Construction of the field cage of sPHENIX TPC

Thursday 25 May 2017 15:26 (4 minutes)

SPHENIX plans to build a world class jet detector at RHIC. Previously inaccessible measurements include jets reconstructed with hadronic calorimeters and fully resolved upsilon states. The current plan includes a highly granular silicon pixel detector (MAPS), a silicon strip detector (INTT) and a time projection chamber (TPC). The tracking system will work in continuous read out, at high data collection rates -15kHz- and will be able to provide momentum resolution below 2% at 5 GeV/c, which is suitable for upsilon reconstruction. The TPC will span a radius from 20 to 78 cm and 2.2 units in pseudorapidity, smaller than TPCs used in current heavy ion experiments, and will be exposed to high electric and magnetic fields. In this poster we present the work done towards the mechanical design and construction of the outer field cage of the TPC

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Session Classification: Coffee Break and Poster Session - 2