

Measurement of electrons from heavy flavor decays at the STAR experiment

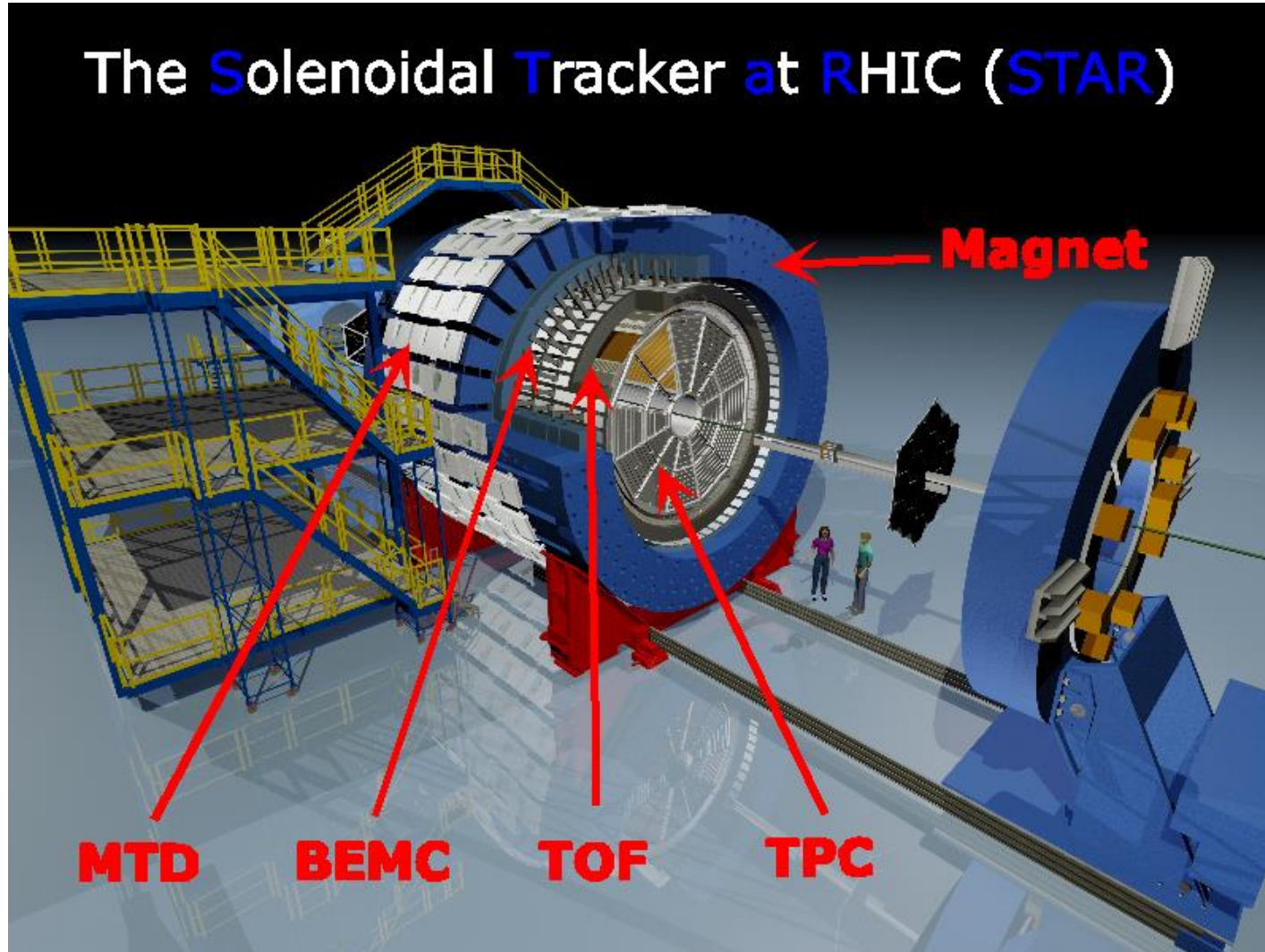
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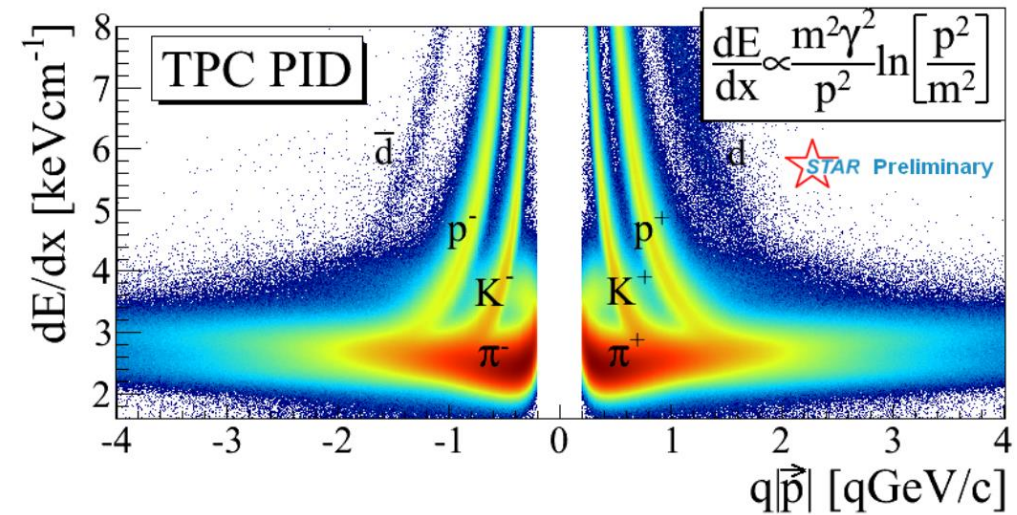
53rd International Winter Meeting on Nuclear Physics in Bormio, Italy

Motivation

The Solenoidal Tracker at RHIC (STAR)



- Heavy quarks are one of the most promising probes for the hot QCD medium
- Electrons from semi-leptonic decays of heavy flavor mesons can serve as a good proxy for heavy flavor quarks



Results on NPE at STAR

- NPE spectra are well described by pQCD calculations
- Heavy quarks strongly interact with the QGP
- 200 GeV -> non-zero elliptic flow observed

