

ECCE tracking detector status and preparation for the 2nd integration

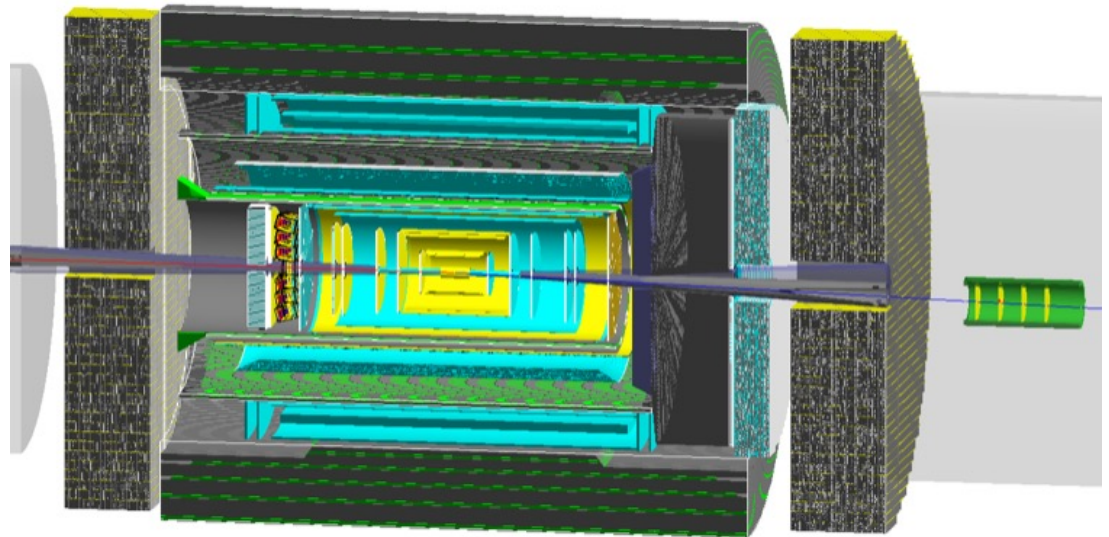
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Simulation sample and detector configuration

- Tracking performance evaluation with recent simulation production:
 - Single electron events done by the production, sample location:
eicS3/eictest/ECCE/MC/prop.1/4cafa64/General/particleGun
 - Simple events configuration: $8 \pi^-$ per event, enable displaced vertex.

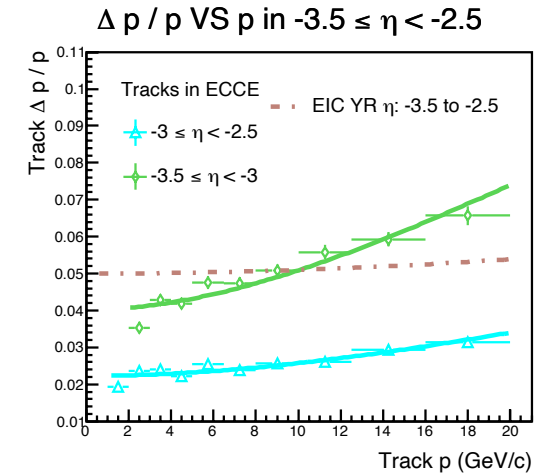
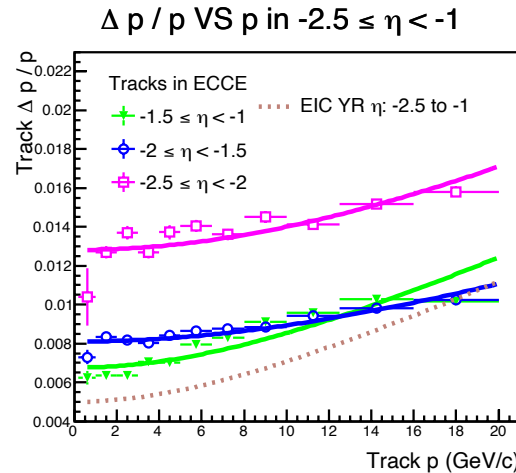
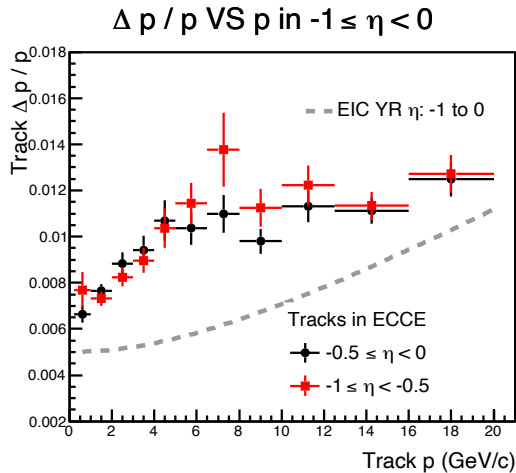
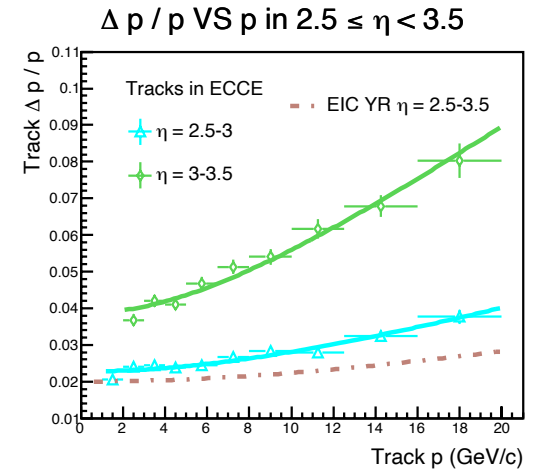
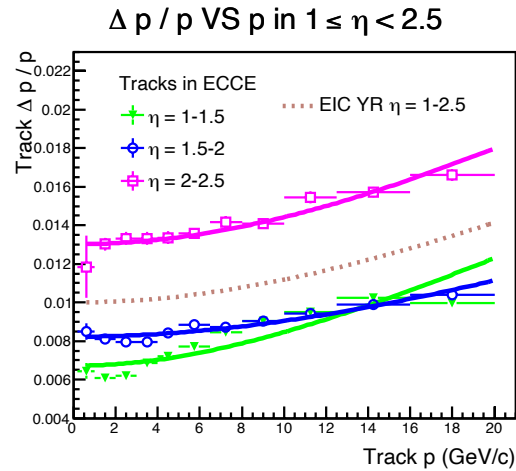
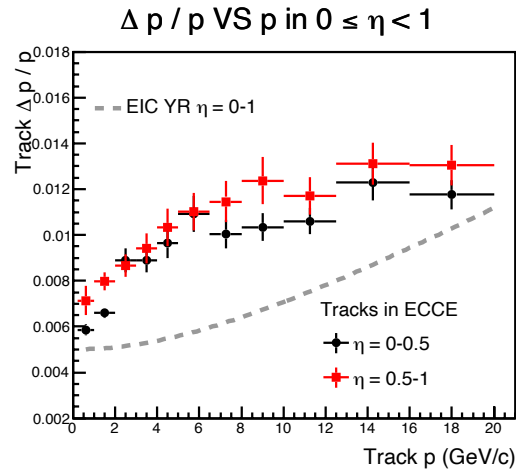
Latest ECCE detector configuration



Thank the ECCE simulation team for their nice efforts!

ECCE Detector Tracking Performance: Momentum resolution

- The current ECCE design generally meets the EIC Yellow Report requirements.



Thoughts for the 2nd ECCE detector integration

- Latest IR design implemented in the simulation?
- 0.5 m extension at IP6 in the hadron going direction, any space allocated for the tracking detector?
- Any additional service part implementation for the ECCE tracking detector? Volunteers?
- Tracking detector geometry optimization?