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U.S. DEPARTMENT OF
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DD4HEP Track Reconstruction Updates

Shujie Li

Thanks: Whitney Armstrong, Sylvester Joosten, Wouter Deconinck, Reynier Cruz Torres, Ernst Sichtermann

ATHENA Tracking WG meeting
Sept 14, 2021

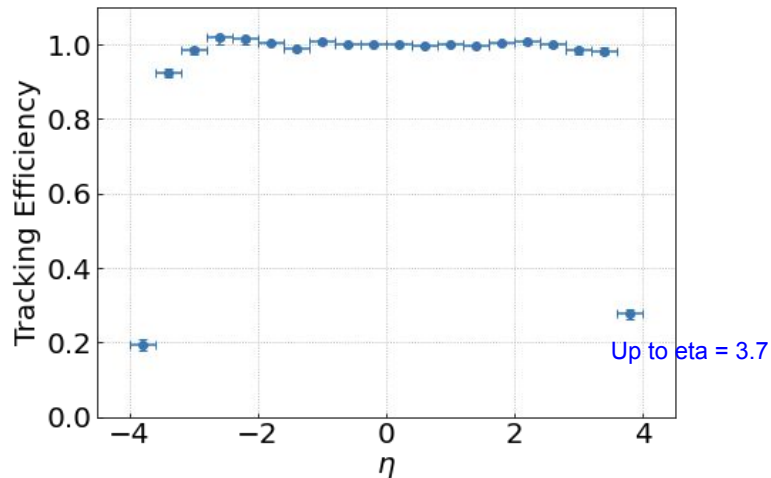
Learned from ACTS Logger:

- The track navigation stops when has no intersection with vertex tracker volume
 - Solution: add beampipe to ACTS geometry (see [this commit](#))
- The material effect is not included in ACTS reconstruction
 - To do: provide a material map to ACTS

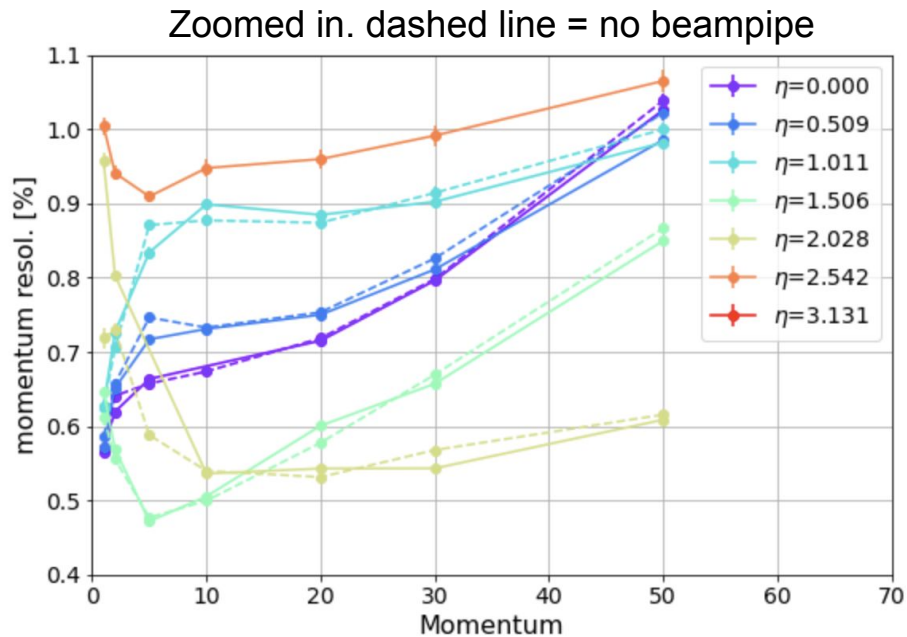
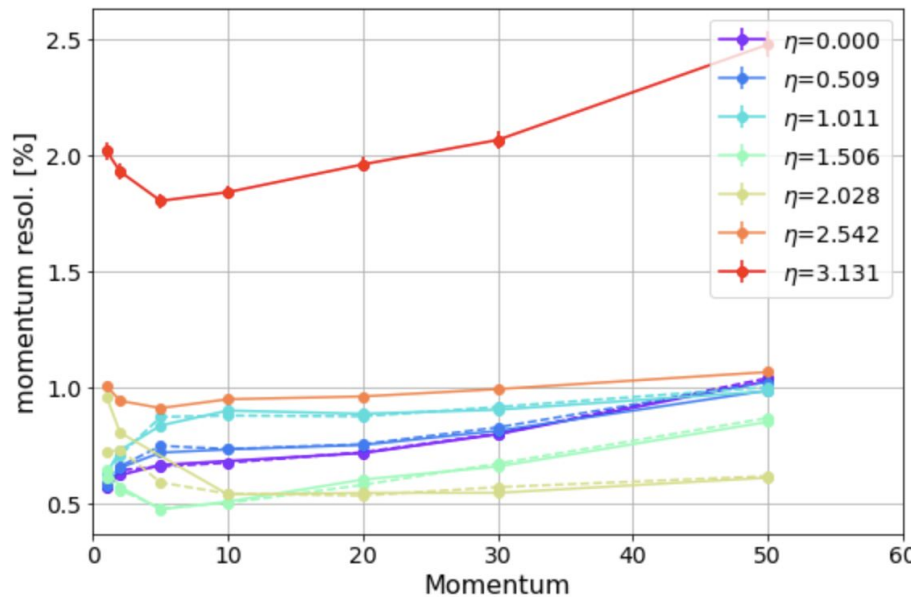


10 GeV pion, single particle.

Tracking eff. = # of events with tracks / generated events



Momentum Resolution:



pT Resolution:

