General Items

Presented at the ATHENA Jets/Heavy Flavor/Electroweak BSM WG Meeting

Miguel Arratia (UC-Riverside), Brian Page (BNL), Ernst Sichtermann (LBNL), Stephen Sekula (SMU) June 15, 2021





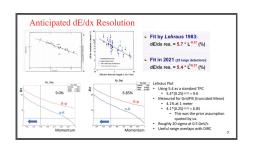




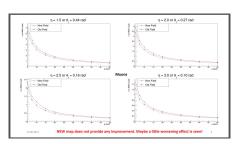


PID Items

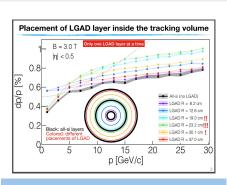
- Emphasis this week in <u>PID WG meeting</u> on particle ID in high-B-field environment and for tracks with low momentum.
- Performance of possible technology ideas (e.g. GridPix, Time-of-Flight via LGAD) under study
 complement and overlap DIRC in barrel.
- Investigation of effect of new 3T B-field map on forward RICH performance suggests new map has no particularly strong effect, with perhaps a slight worsening of the resolution.
- A look at an imaging calorimeter based on monololithic silicon sensors. Question raised about streaming capability of such a device.



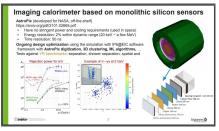
"Low momentum PID at High B-field with GridPix" (P. Garg)



"B field impact on forward RICH performance" (C. Chatterjee)



"Effect of LGAD (extra material) Inside all-si tracker barrel" (W. Fan)



"Imaging Calorimetry for EM Barrel with ToF" (M. Zurek and P. Reimer)

Tracking and Calorimetry

Since <u>Tracking Meeting</u> just ended, no lengthy summary here.

We'll have a report from Miguel today on the HCAL issues. J. Adam summarized in the <u>Calorimeter WG</u> meeting yesterday the history of hadron calorimeter modeling in GEANT from ZEUS to the EIC.

