

Athena

Tracking WG summary

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Update Since Last Meeting

□ Weekly meetings, Tuesday, 12 pm EDT

□ News and ongoing work

- Simplified the all-silicon detector concept geometry (stave-based geometry)
- Study effects of LGAD layers within the all-silicon tracker: **ongoing**
- 18 May: focus on **detector concepts**
 - GridPix mini-TPC for dE/dX
- Switch out TPC from hybrid and replace with MPGD barrel and end caps: **ongoing**
 - Currently involved: Berkeley, Birmingham, Temple, Saclay
- 25 May: Initial comparison between uniform 3T field and Athena field (4/29 meeting) using YR hybrid
- Discussions on technology choices
 - 2 June: Contribution from EIC SC on Si technology
 - Next meeting will have discussions on gaseous technologies
- Collected currently used detector and B field git repos under tracking WG webpage

□ The aim is to converge within a few weeks on two initial layouts