

4D Tracking whitepaper outline

- Physics motivation and requirements for future collider experiments
 - ILC, C3, FCC, EIC, muon collider
 - Run 6 ATLAS HL-LHC?
 - Resolutions and layout (combination of fast-timing layers with \sim ns layers)
- Sensors: current status, key challenges, and R&D roadmap
 - Advanced LGADs
 - CMOS MAPS LGAD integration?
- Electronics
 - Power consumption, low-noise, high granularity
 - R&D roadmap: 10ps vs 100ps vs 1ns