

# Recent tracking/vertexing related pull requests

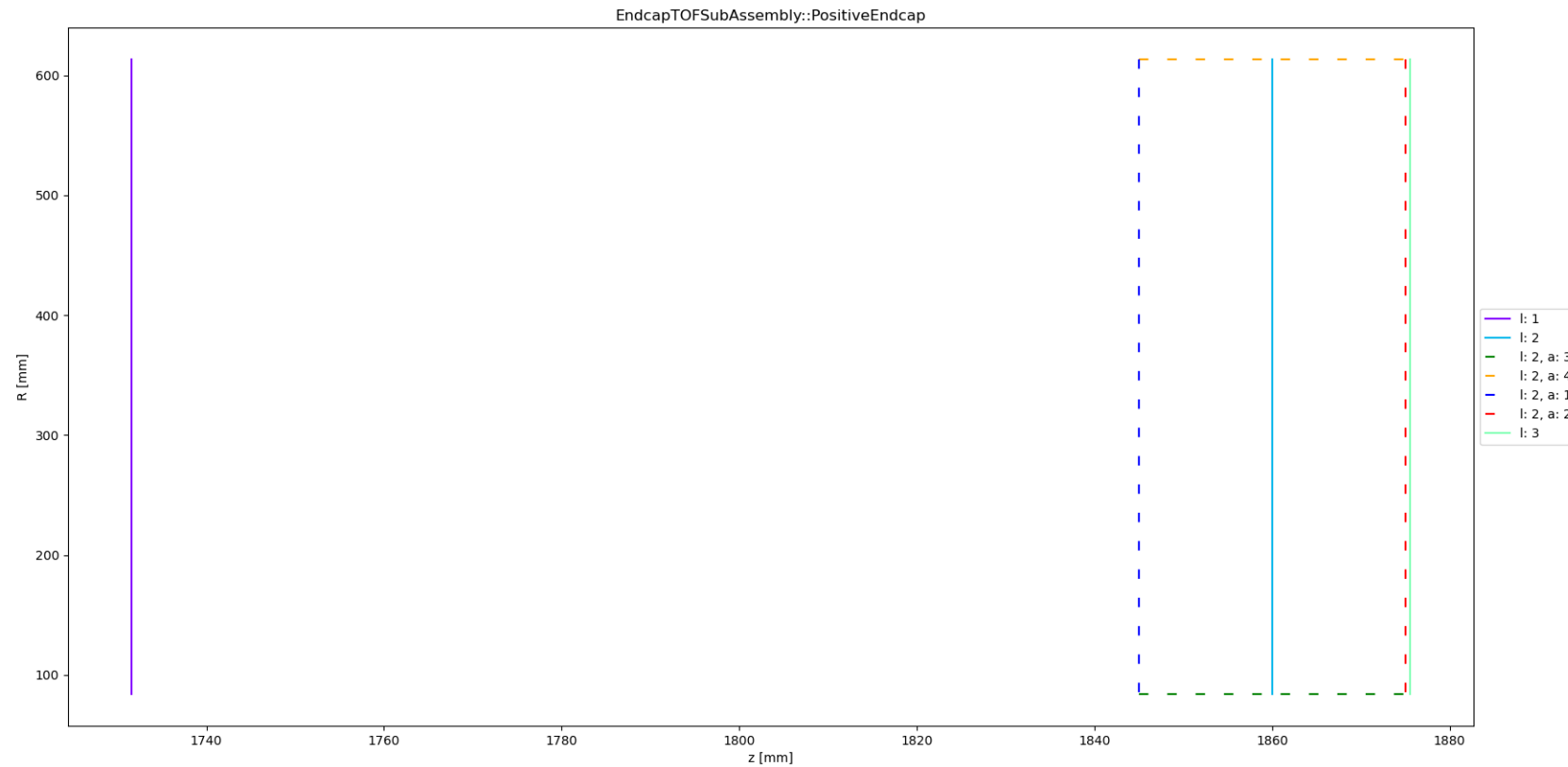
Barak Schmookler

# Time-of-Flight

1. Updated grid size for ETOF and BTOF to reflect correct position resolutions. <https://github.com/eic/epic/pull/883>. **Merged.**
2. Modified ETOF layering scheme to correctly build Acts volumes and sensitive surfaces. <https://github.com/eic/epic/pull/887>. **Completed. Some checks failing due to Docker connection issues.**
3. LGAD reconstruction with clustering. <https://github.com/eic/ElCrecon/pull/1779>. **In progress.**

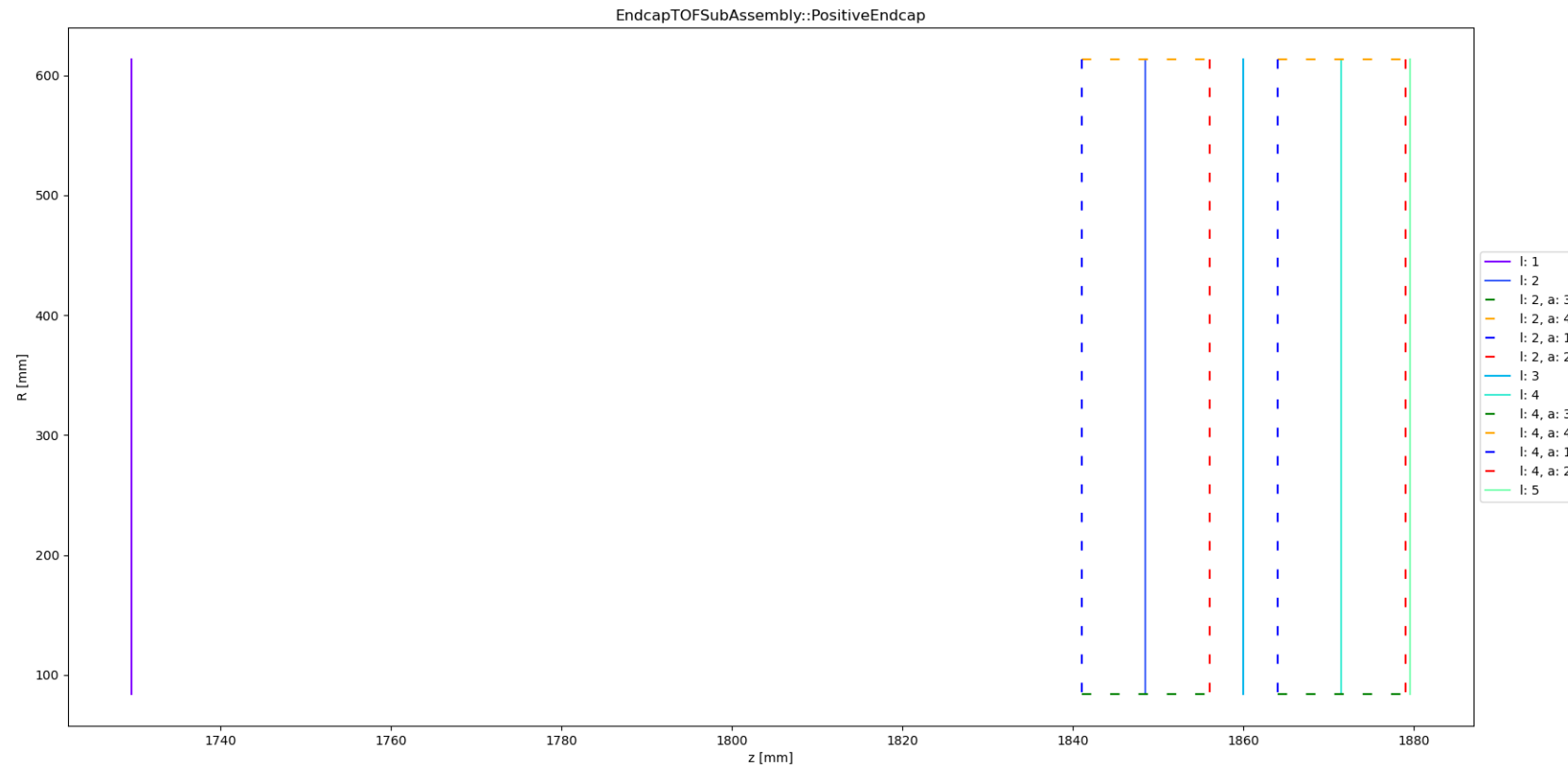
# Effect of modified ETOF layering on Acts geometry

**Before**



# Effect of modified ETOF layering on Acts geometry

**After**



# Track reconstruction & Track projections

1. Updated treatment of outliers for new Acts versions.  
<https://github.com/eic/ElCrecon/pull/1922>. **Merged.**
2. Backwards track projection when needed.  
<https://github.com/eic/ElCrecon/pull/1921>. **Review needed.**
3. Split B0 from central detector tracking.  
<https://github.com/eic/ElCrecon/pull/1744>. **In progress?**
4. Tracking support for AstroPix layers of Barrel ECal.  
<https://github.com/eic/epic/pull/710>. **Approved. Auto checks running.**

# Vertexing

1. Secondary vertexing capabilities.  
<https://github.com/eic/ElCrecon/pull/1915>. **In progress.**  
**Details will be presented at next week's meeting.**

# Detector Benchmarks

1. Updated generated particles momentum variables in analysis codes from float to double.

[https://github.com/eic/detector\\_benchmarks/pull/170](https://github.com/eic/detector_benchmarks/pull/170).

**Approved. Waiting to merge.**