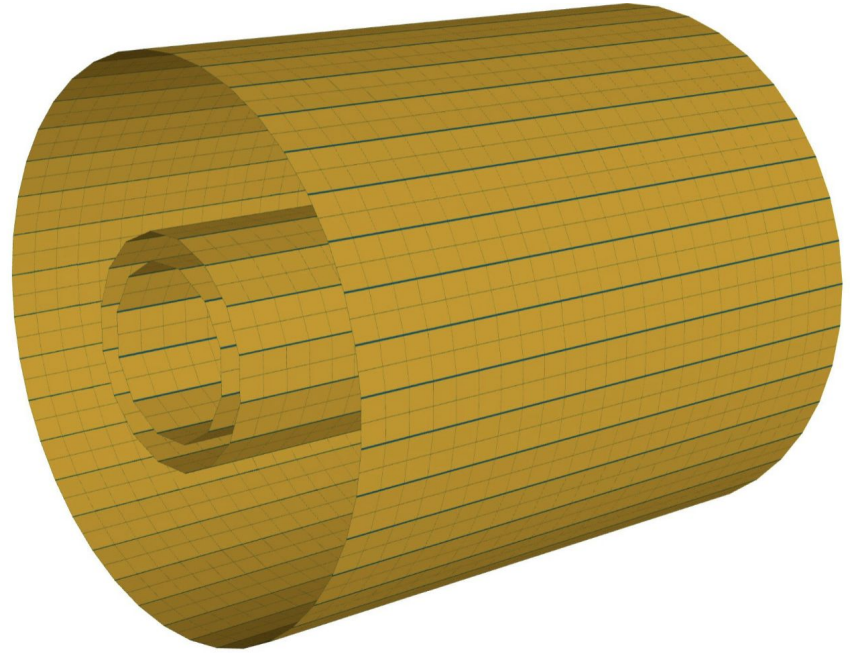


Near term tasks (Opportunities) on tracking software

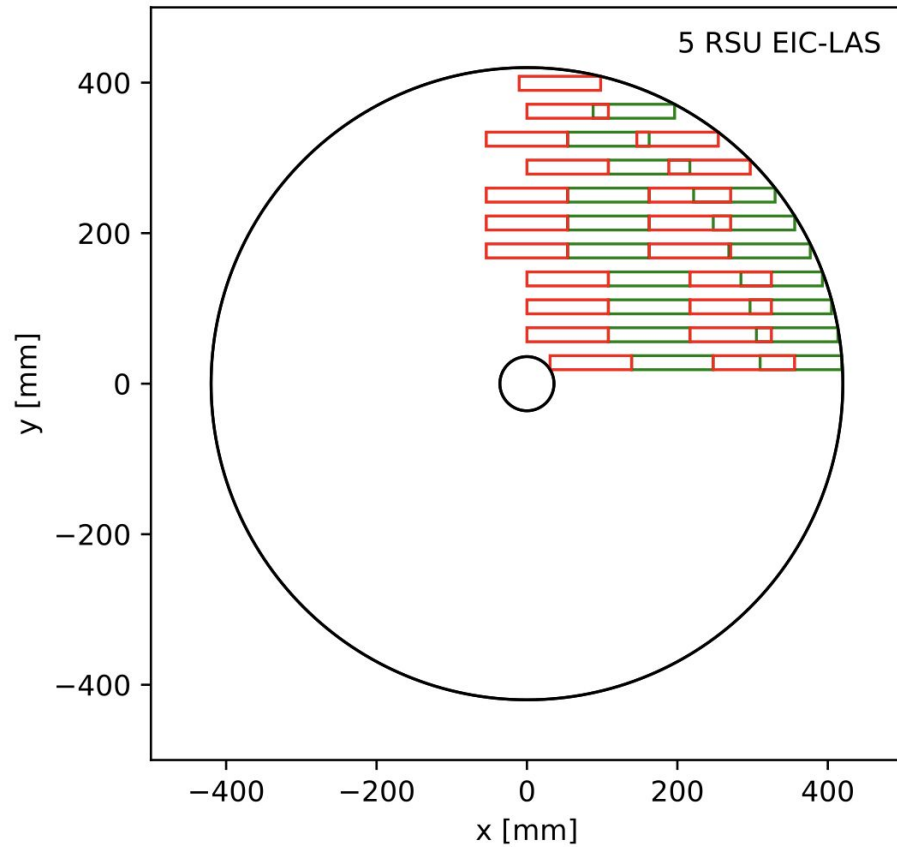
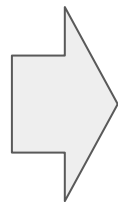
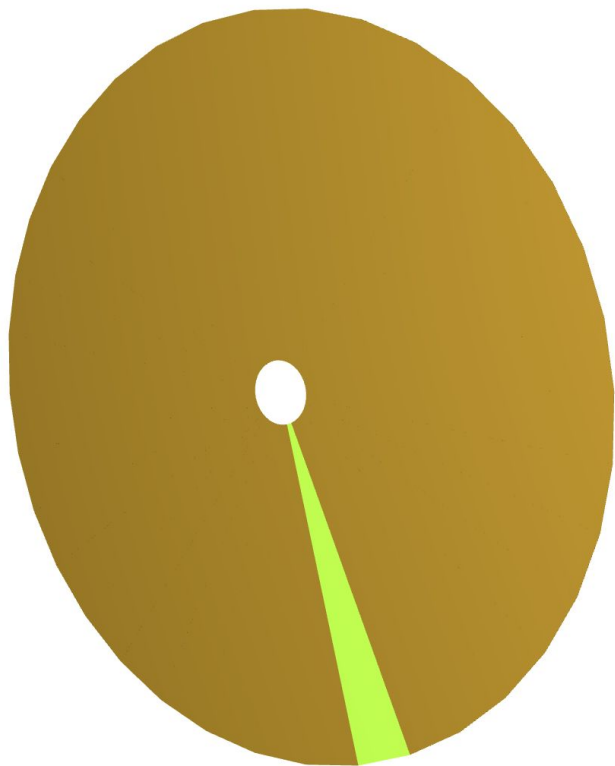
Shujie Li
05. 07. 2024

1. Si tracker with sensors

- Done (by Jonathan): pixels with inactive area
- TBD : curved surface



2. Disk from tiles



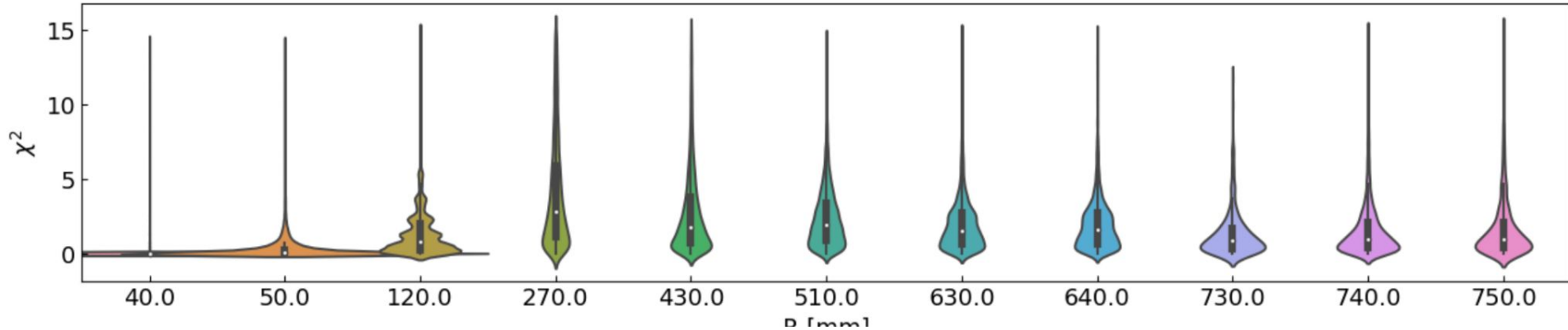
3. Understand Chi2 distribution

Done:

- Initial cov matrix optimization (Jeet and Barak)

To do:

- Balance the chi2 distribution for each layer. Understand the strange behavior on L2



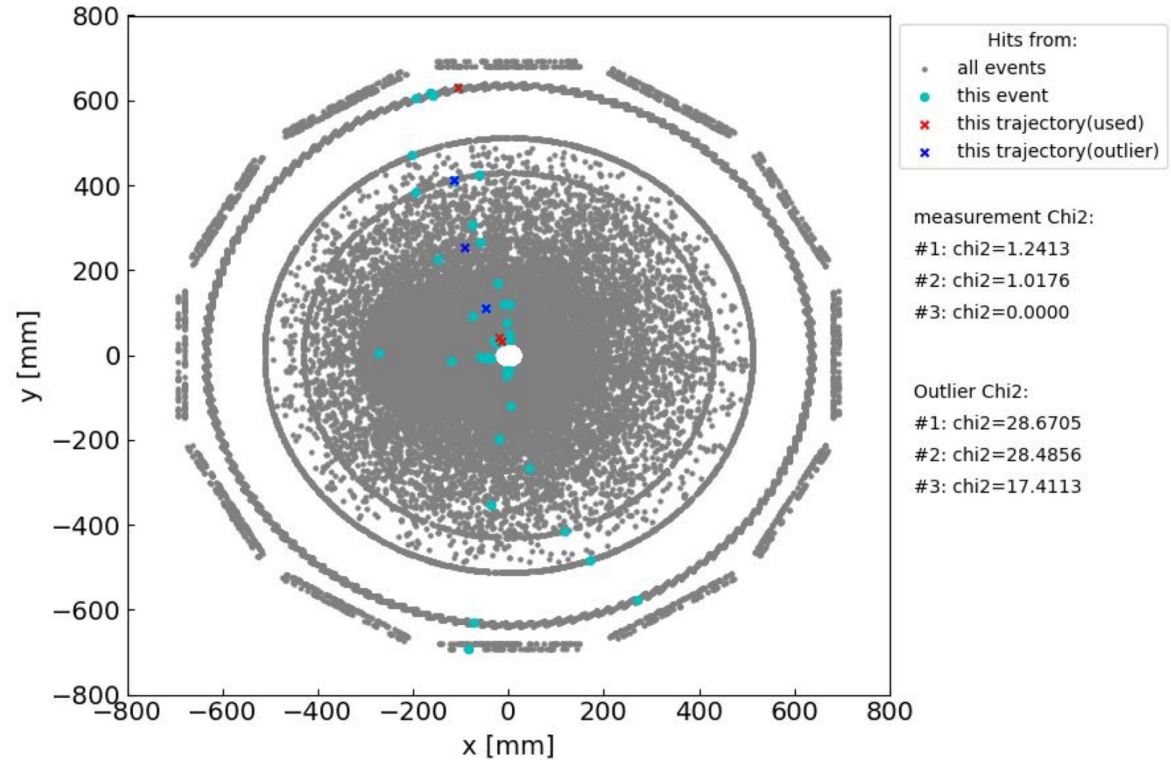
4. Trajectories with holes and outliers

Done:

- Hits to particle association (Barak)
- Initial cov matrix optimization (Jeet and Barak)

To do:

- Understand the holes
- optimize chi2 cuts



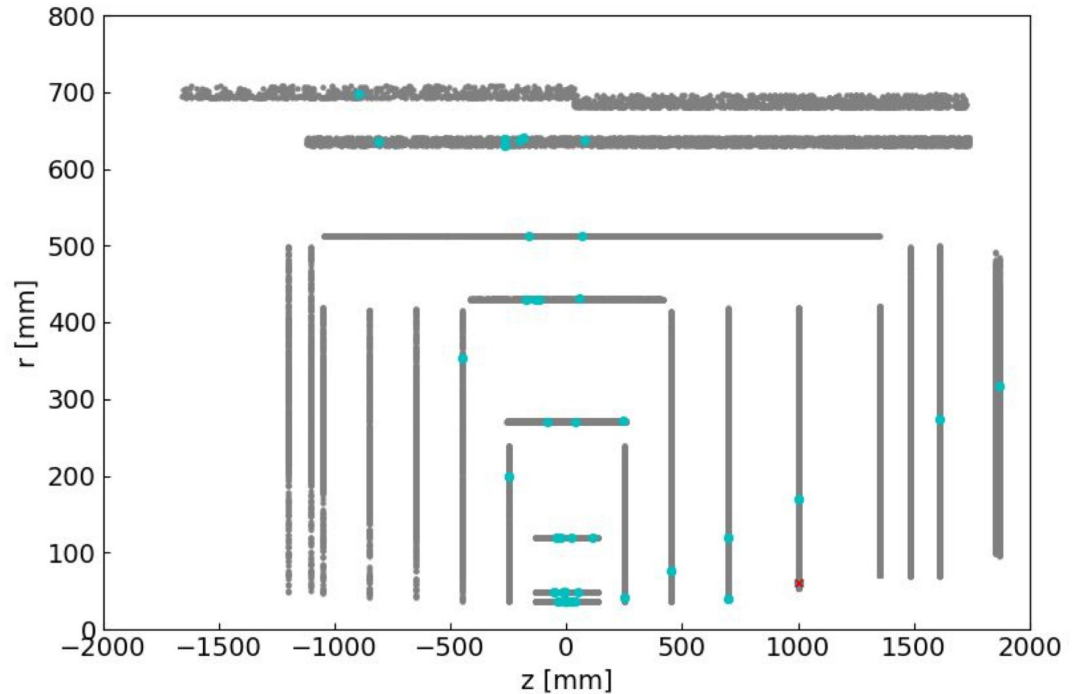
5. Trajectories with less than 3 hits

Done:

- Hits to particle association (Barak)

To do:

- Trajectory to seed association (Barak)
- Resolve or remove trajectories with less than 3 hits



6. Tracking performance study

- a. Performance with timeframe (see Kolja's talk this Thursday)
- b. TDR plots