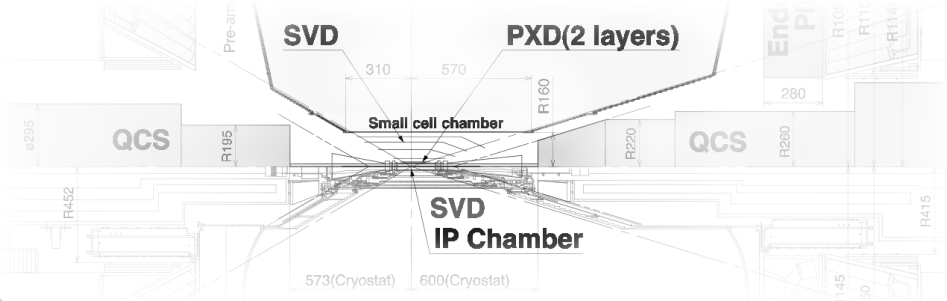


VXD TrackFinder Development at KIT

Status report - tracking meeting

Jonas Wagner | 16th December 2016

INSTITUTE FÜR EXPERIMENTELLE KERNPHYSIK - IEKP



- 1 Multiple Tracks
 - Same Sample Training and Evaluation

Sample C

- Same as for DESY face2face meeting

Common parameters

PdgIds		± 13
nTracks		<u>10</u>
momentum	GeV	0.1 - 4
θ	°	0 - 360
φ	°	17 - 150

Sample C

- 200 000 events
- seed 1234

- Not all SVD cluster can be converted due to inconclusive relations

Example

- RecoTrack contains a single cluster
 - Single cluster has relations to multiple SpacePoints
- ⇒ Which SpacePoint is the correct one?
- ⇒ How to treat this case?

- Not all SVD cluster can be converted due to inconclusive relations

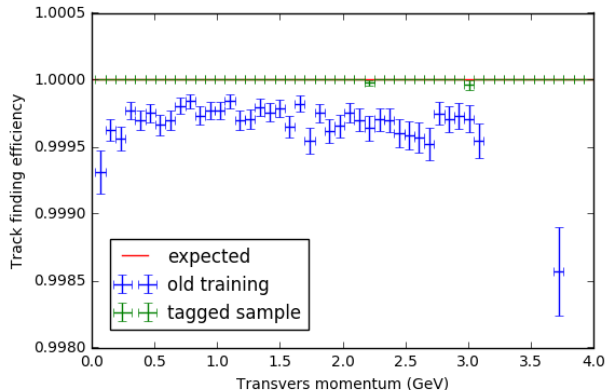
Example

- RecoTrack contains a single cluster
 - Single cluster has relations to multiple SpacePoints
- ⇒ Which SpacePoint is the correct one?
- ⇒ How to treat this case?

Current Options

- Ignore this cluster
- Use a single cluster SpacePoint collection
- Ignore this RecoTrack
- Additionally mark the RecoTrack as problematic (currently using the dirty flag)

Sample C



- SectorMap trained on sample C
- Evaluation on sample C

Differences

- Evaluation only on successfully converted RecoTracks
- Changed max p_t limit in SecMapConfig from 3.1 to 5