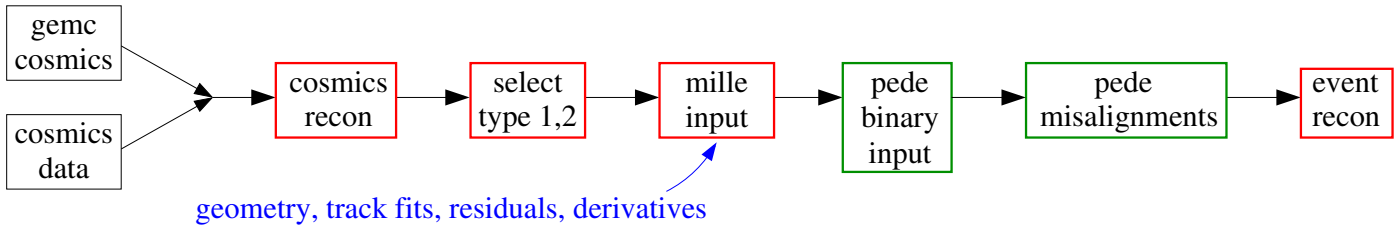
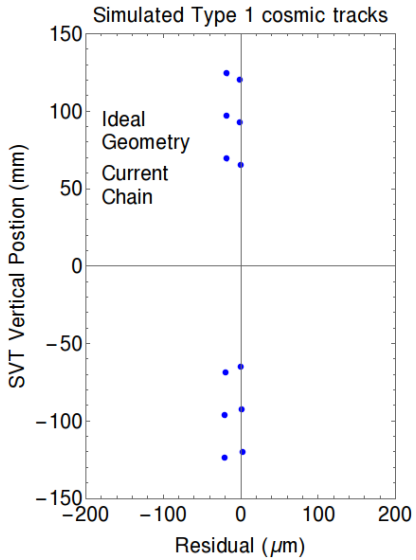
SVT Track-Based Alignment With Millepede

1. Analysis chain: red boxes - Java; green boxes - C++.



2. 

3. gemc version 4.3.0; COATJAVA 5.7.4; Tracker - end 2018.

SVT Track-Based Alignment With Millepede

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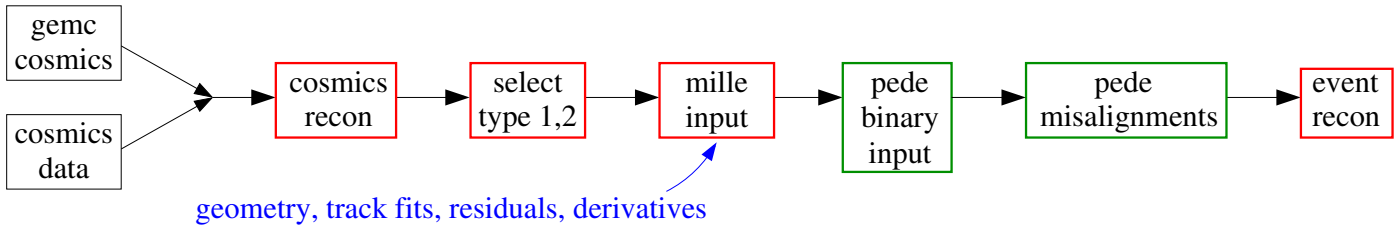
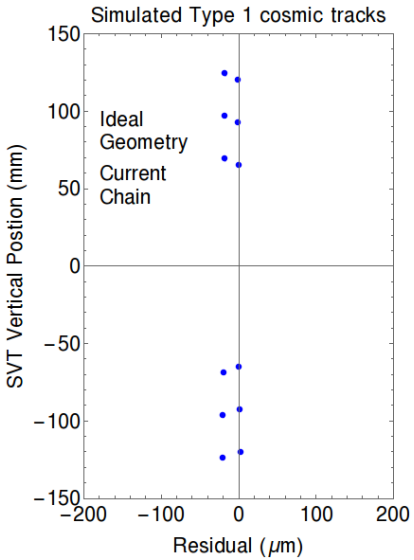
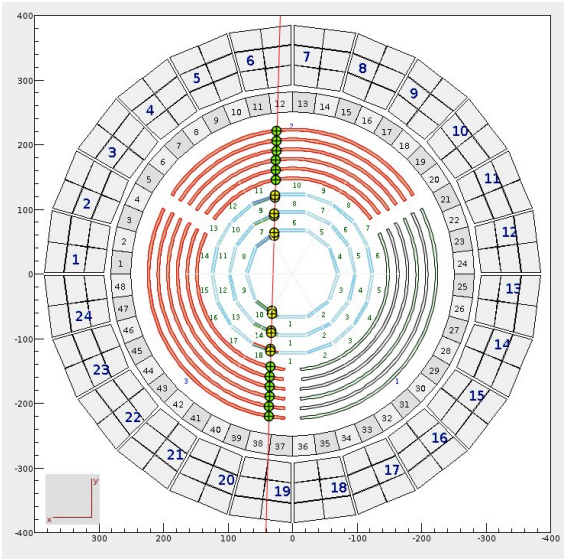


2.





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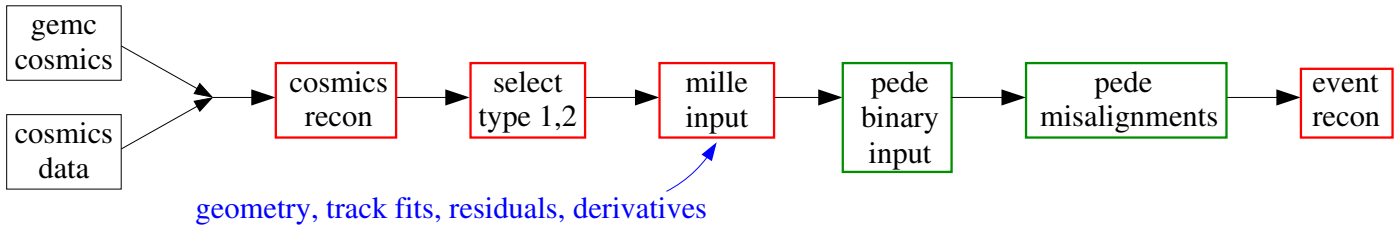
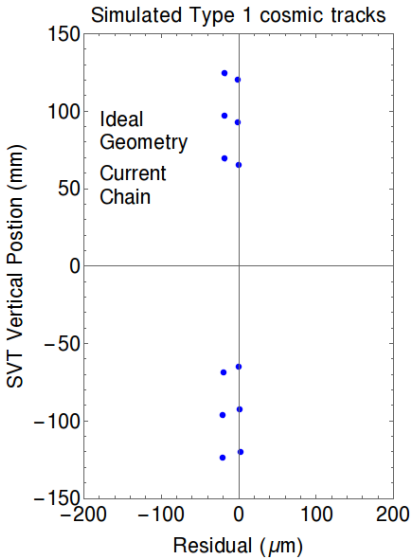
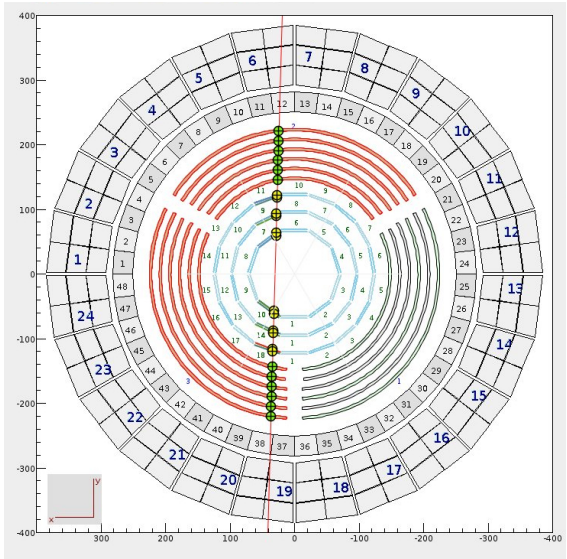
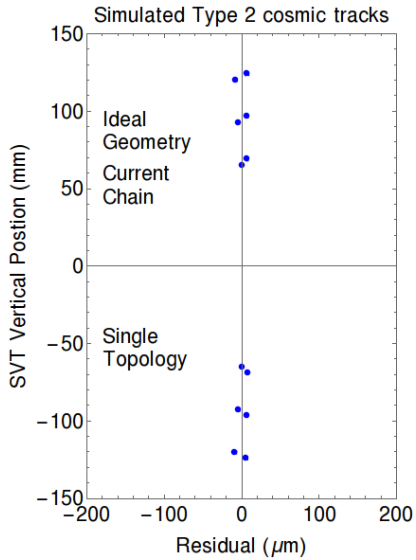


2.







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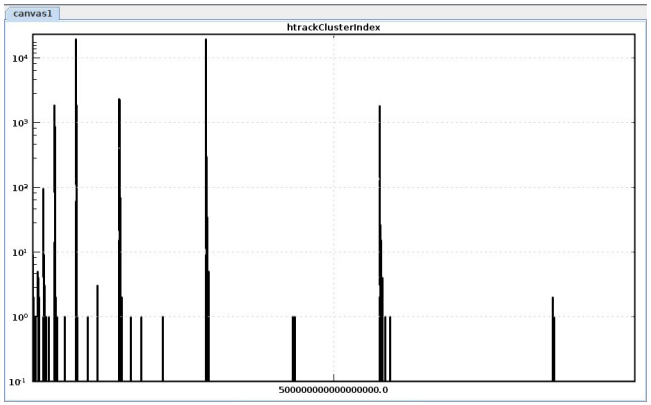
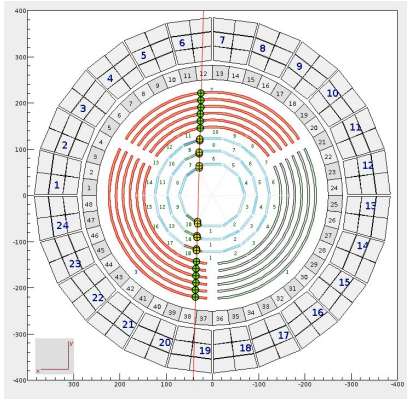
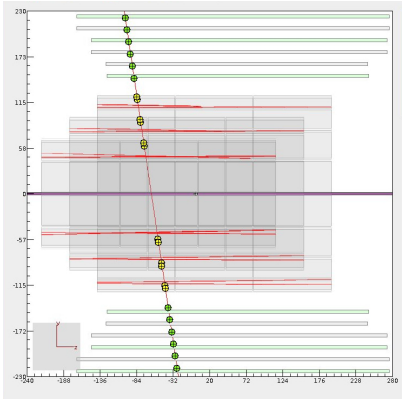
SVT Track-Based Alignment With Millepede

4. Selecting single type-2 event topology
   1. Construct a 'trigger' consisting of 84 bits (number of SVT sensors) and for each event set a bit for the sensors that have a cluster.
   2. Require twelve, single-hit clusters, no repeated sensors.
   3. Select most frequent trigger by 'histogramming' the trigger values.







   4. gemc version 4.3.0; COATJAVA 5.7.4; Tracker - end 2018.

5. To do: (1) Run new Tracker/COATJAVA version. (2) Insert shift in *gemc*. (3) Extend to other topologies.