Analysis Plan during INTT workshop

Analysis topic

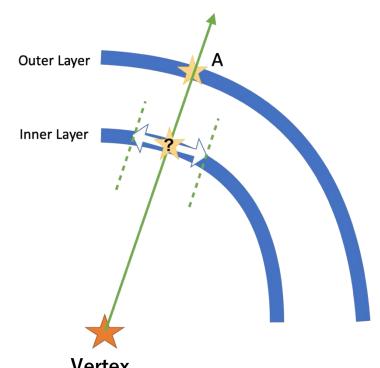
Detection efficiency of INTT with p+p using vertex

Goal for the workshop

- -Estimating detection efficiency of INTT with vertex using simulation.
- -Getting information about how to deside vertex position
- -Establishing the method to connect the information between vertex and cluster

Method

- 1. Find the coordinates A of the cluster in the Outer Layer
- 2. Connect the collision point and A with the cluster and determine the range expected for the Inner cluster
- 3. If there are clusters within the expected range and if there are no clusters within the expected range, count the number of clusters in each case as NYes and NNo respectively. $\varepsilon = N_{ves}/(N_{ves} + N_{No})$



Analysis Plan during INTT workshop

Analysis topic

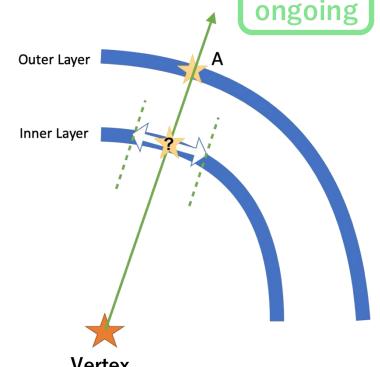
Detection efficiency of INTT with p+p using vertex

Goal for the workshop

- -Estimating detection efficiency of INTT with vertex using simulation. ongoing
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Method

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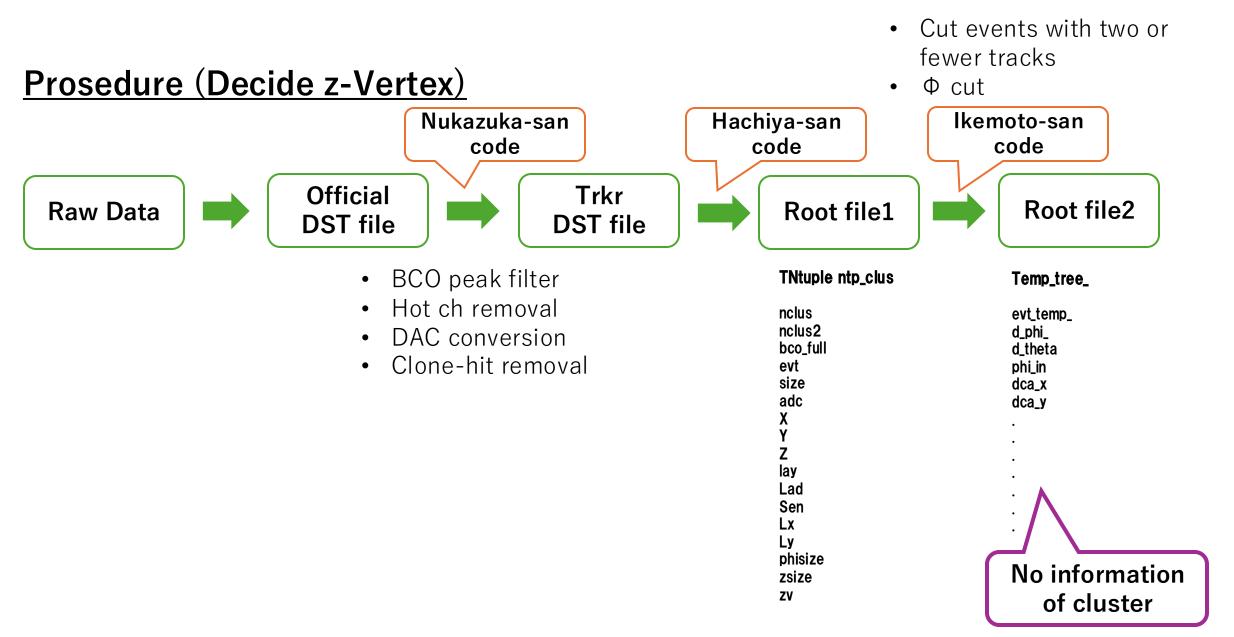


Connect the information between vertex and cluster

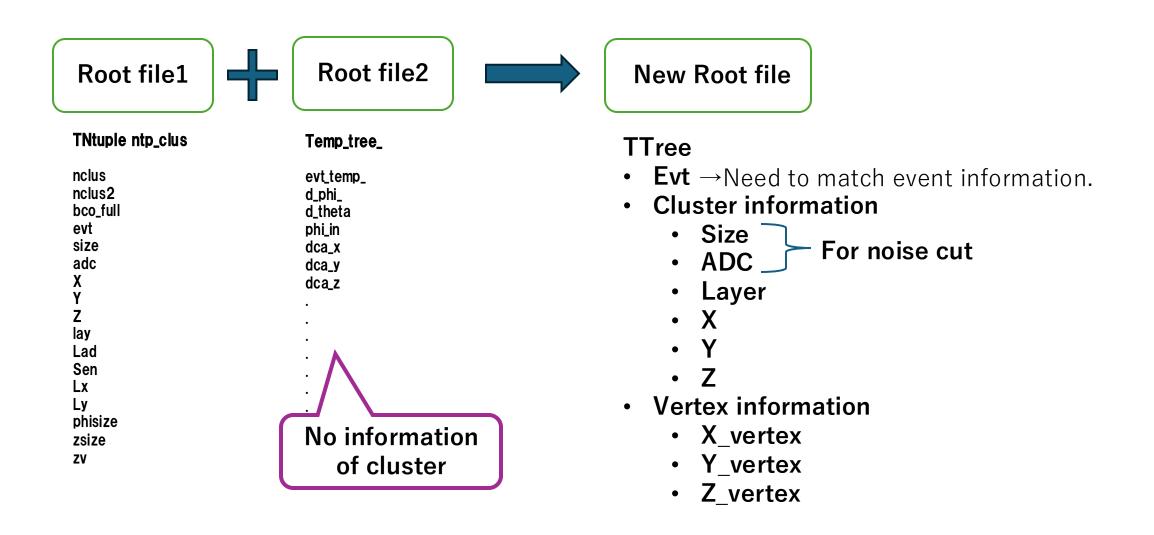
Cut events with two or fewer tracks **Prosedure (Decide z-Vertex)** Φ cut Nukazuka-san Hachiya-san Ikemoto-san code code code Official Trkr Root file2 Root fil1e Raw Data **DST file DST** file BCO peak filter TNtuple ntp_clus Temp_tree_ Hot ch removal nclus evt_temp_ nclus2 d_phi_ DAC conversion bco_full d_theta Clone-hit removal evt phi_in size dca_x adc dca_y lay Lad Sen Lx Ly phisize zsize

Z۷

Connect the information between vertex and cluster



Conect the information between vertex and cluster



Next step

• Estimating detection efficiency of INTT with vertex using simulation.

Establishing the method to connect two root file

Getting information about how to deside vertex position