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 conect 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.

$$\varepsilon = N_{yes}/(N_{yes} + N_{No})$$

