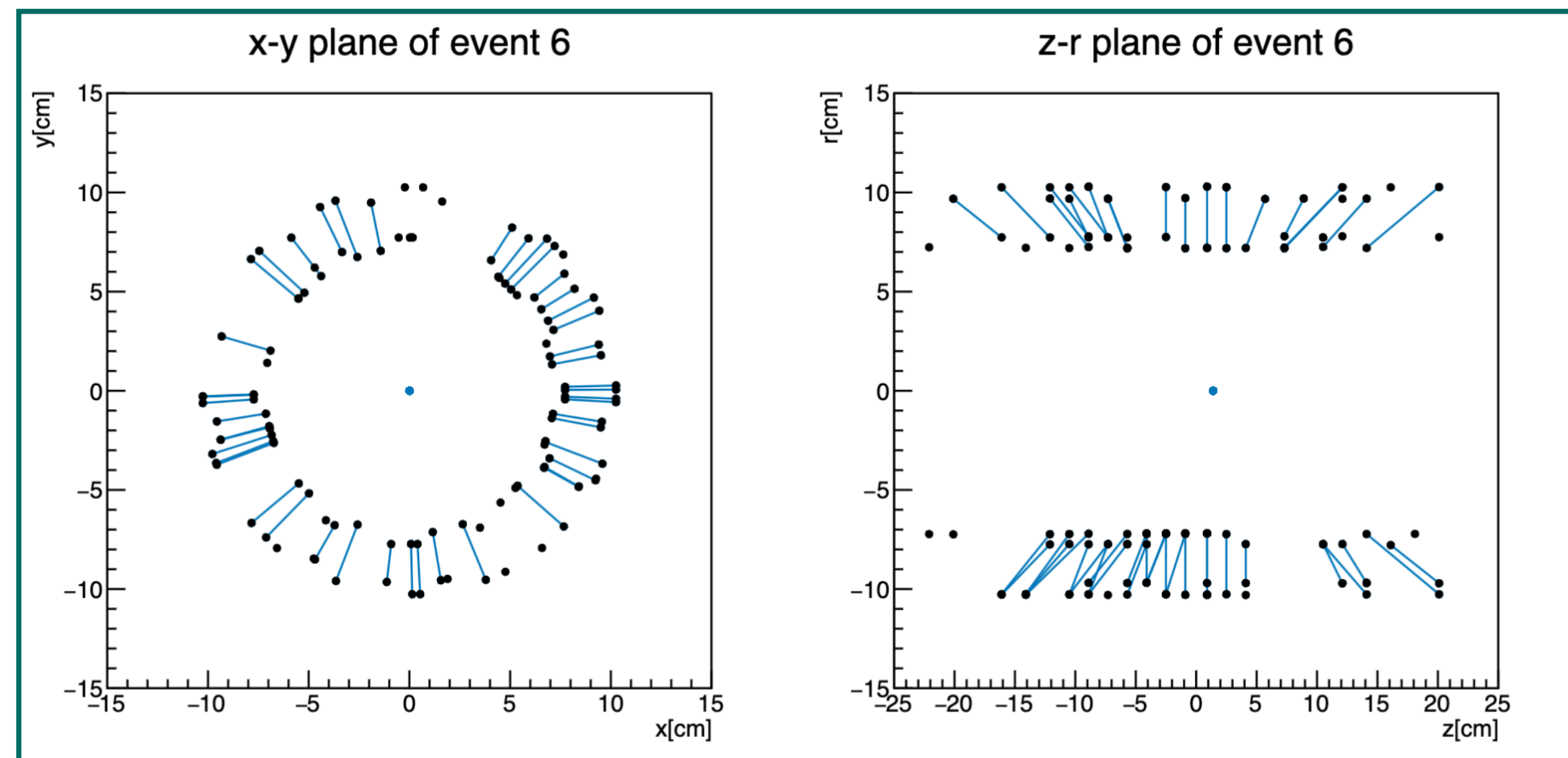


Abstract

【How many clusters can be reconstructed to tracklets?】

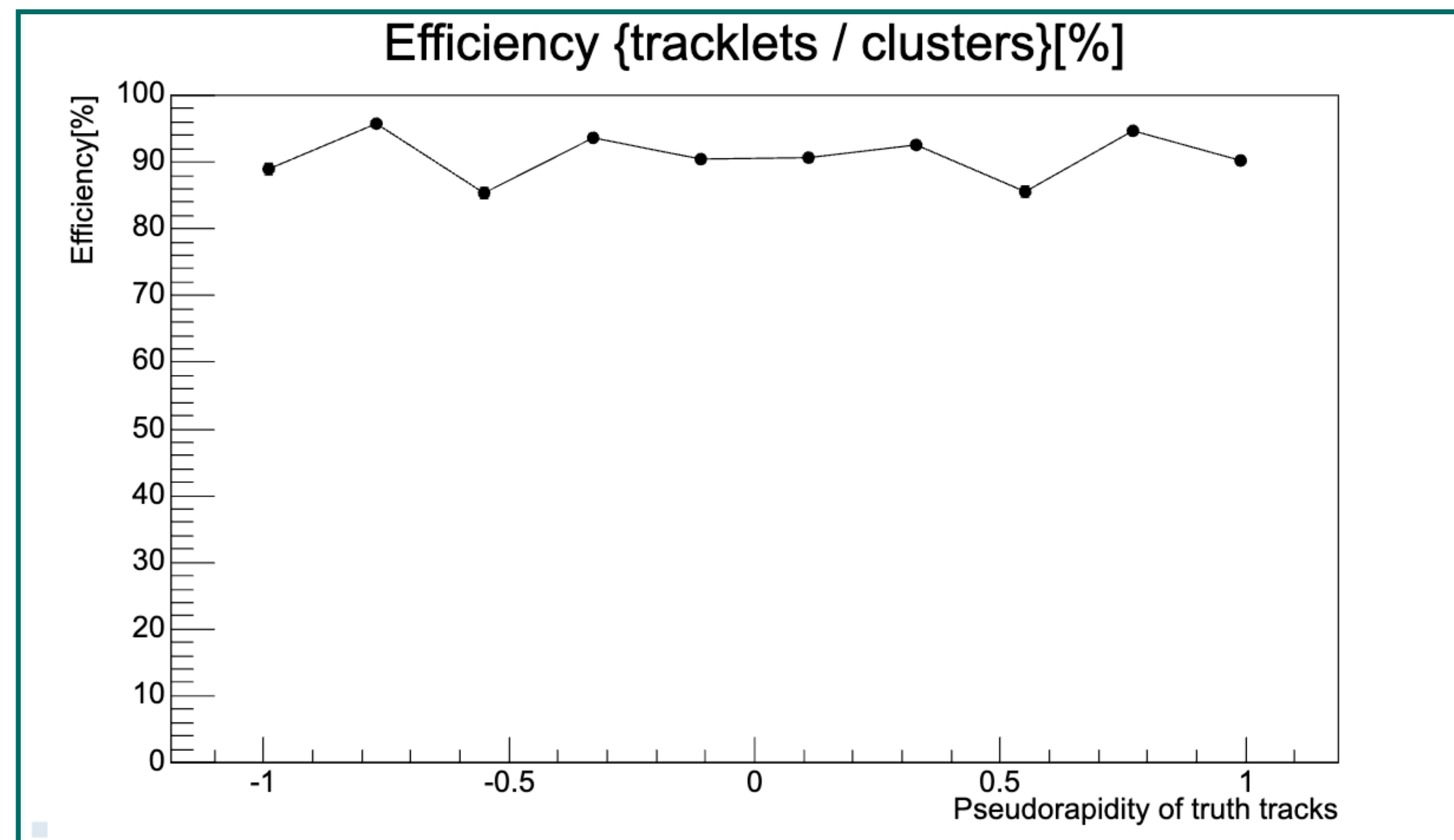
- The tracklet efficiency, which is the ratio of tracklets to clusters, is evaluated.
- This efficiency ϵ is calculated as below.

$$\epsilon = \frac{N_{\text{tracklets}}}{N_{\text{clusters}}}$$



The tracklet efficiency

- The tracklet efficiency, which is the ratio of tracklets to clusters, as a function of pseudorapidity is calculated.
- In this evaluation, only clusters in the inner barrel are used.



$$\text{error} : \sqrt{np(1-p)}$$

- The average tracklet efficiency : $90.7 \pm 0.2\%$
- This is consistent to the event display.

Summary

【Evaluation of my tracking algorithm】

- The tracklet efficiency, which is the ratio of tracklets to clusters, as a function of pseudorapidity is evaluated.

➡ This efficiency is $90.7 \pm 0.2\%$.

<

