

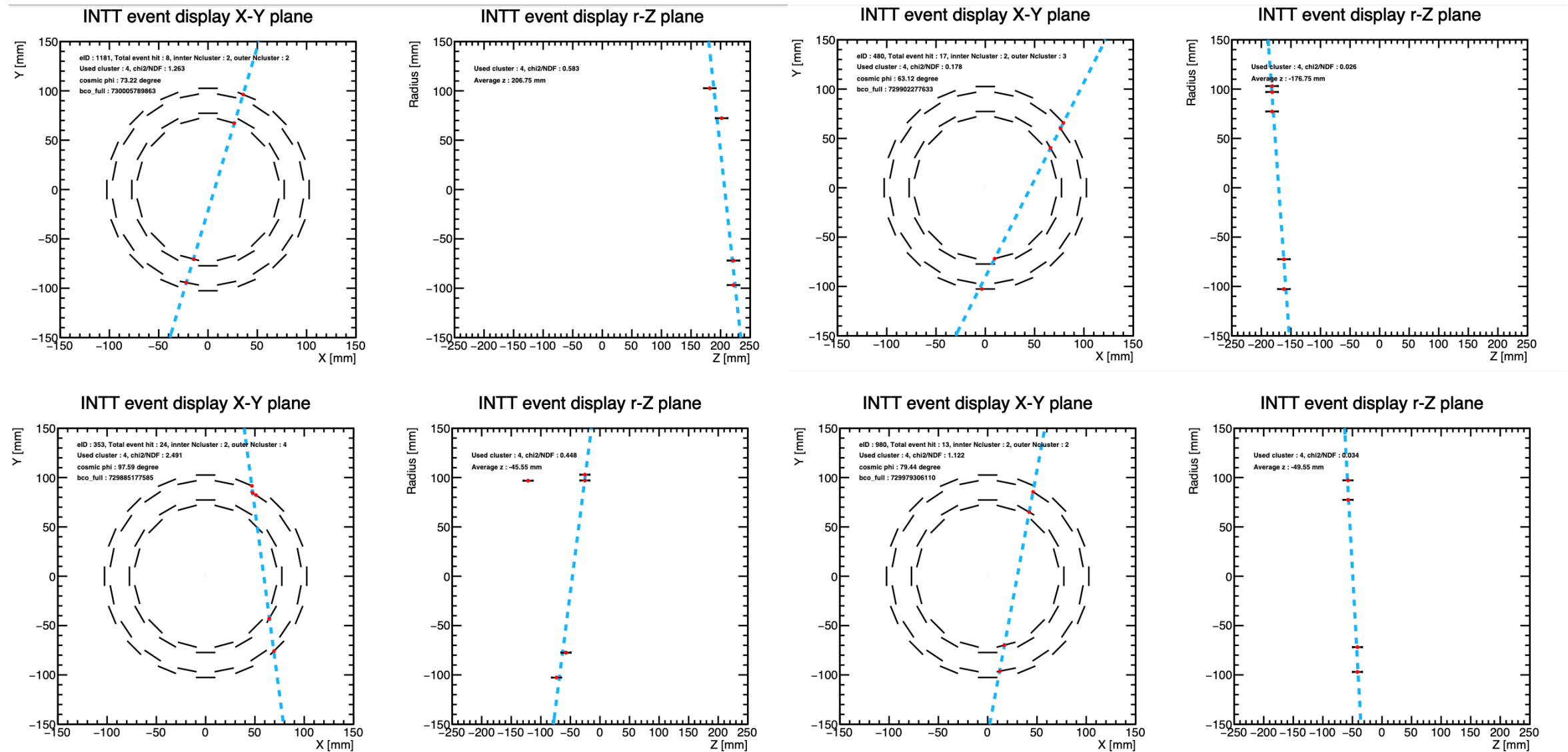
# Cosmic check

Genki, Wei-Che

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# Run 26960 check

- INTT turned on last weekend. This is the run from last weekend.
- The cosmic tracks were checked.
- INTT looks working well.

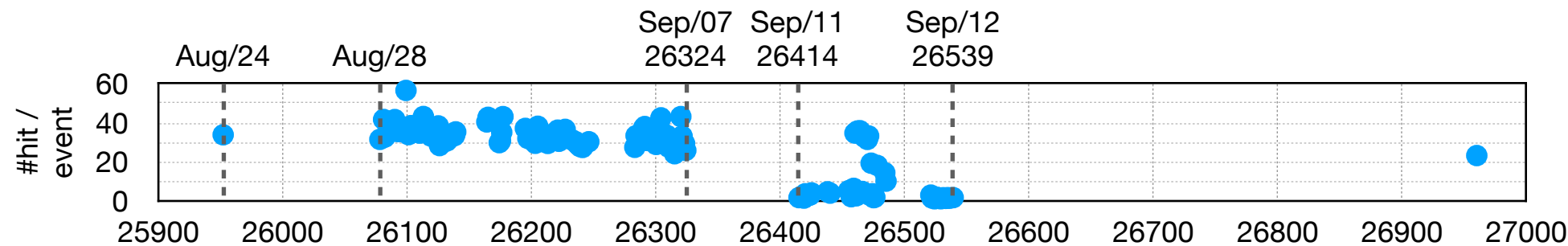


# Stability in the cosmic measurement

- The stability of INTT in the cosmic ray measurement was quickly checked by analyzing runs with 1k events.
- Noisy channels were not removed. If there are clone hits, which means hits with the same pid, module, chip\_id, chan\_id, and add as a hit in the same event, only one of them was counted.

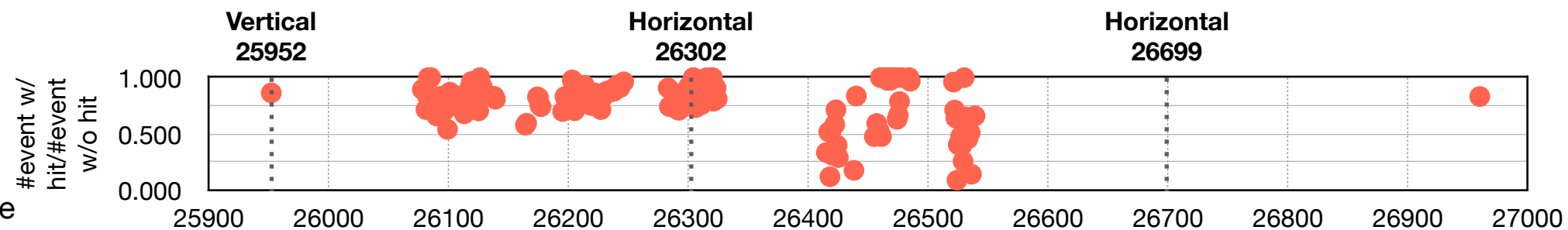
$$\frac{\text{\#hits}}{\text{\#event}}$$

Events were required to have at least 1 hit.

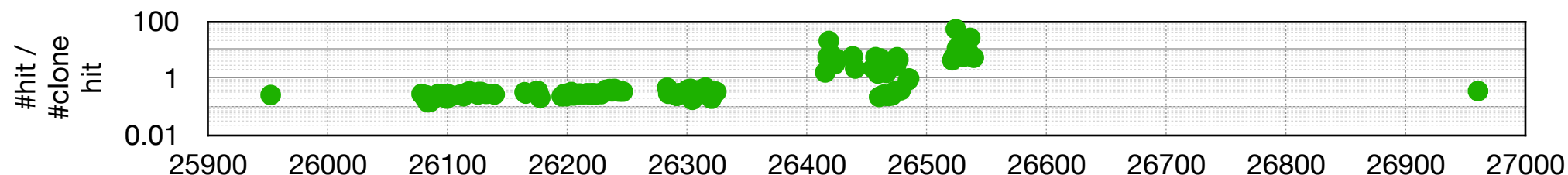


$$\frac{\text{\#event with hits}}{\text{\#event without hit}}$$

Since HCAL makes the trigger, the ratio cannot be 1 but has to be constant under the same condition.

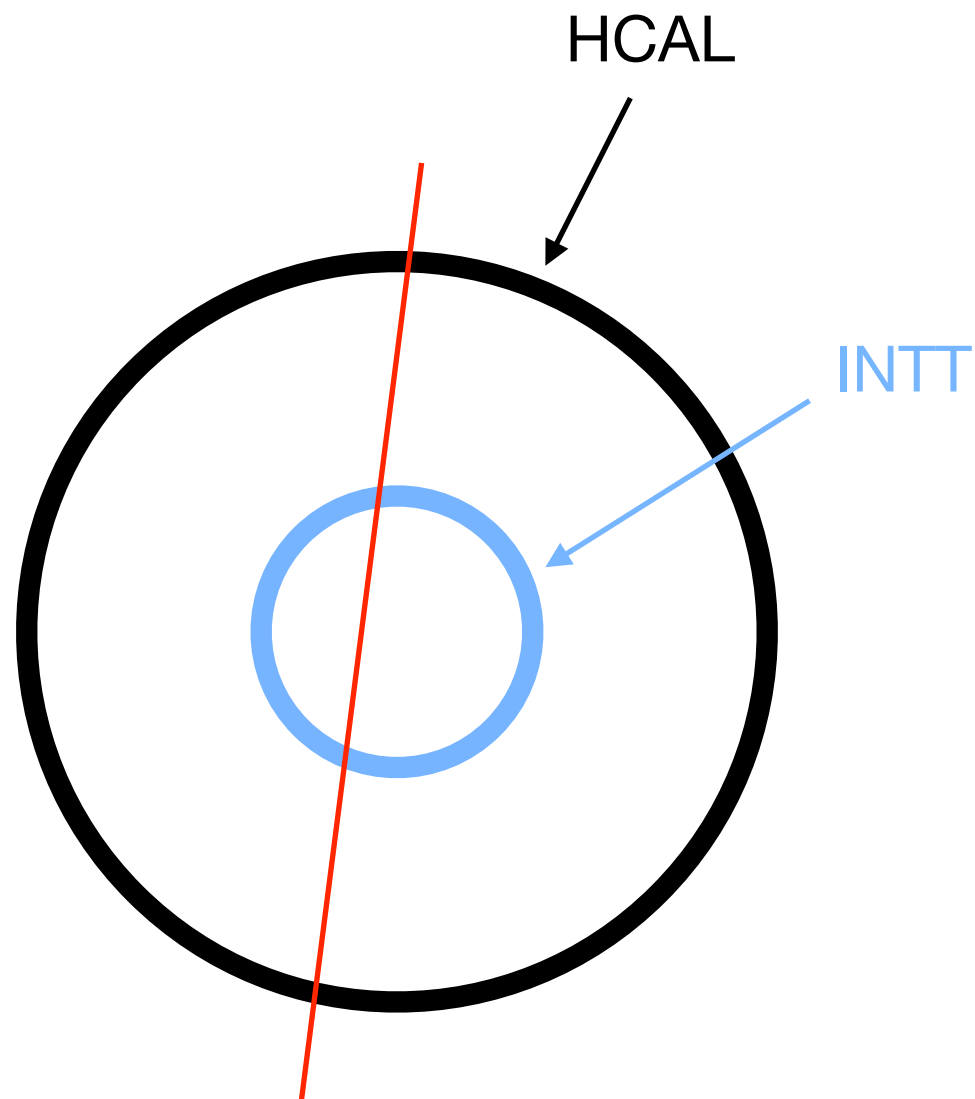


$$\frac{\text{\#clone hits}}{\text{\#original hit}}$$

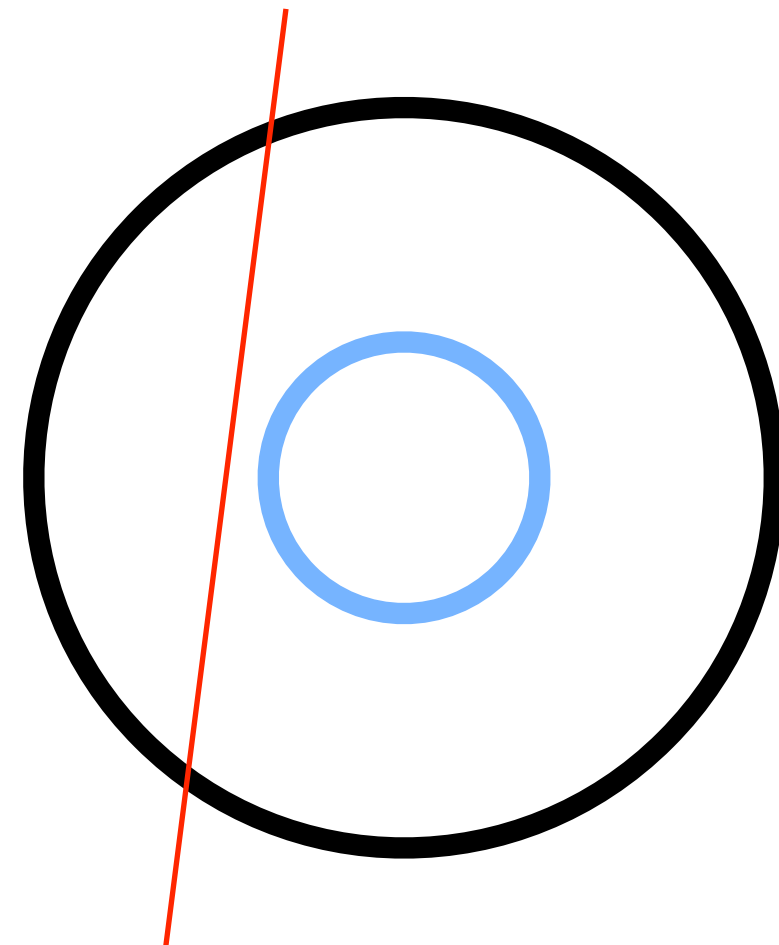


Back up

# Event w/ & w/o hit



Event with hits



Event without hits