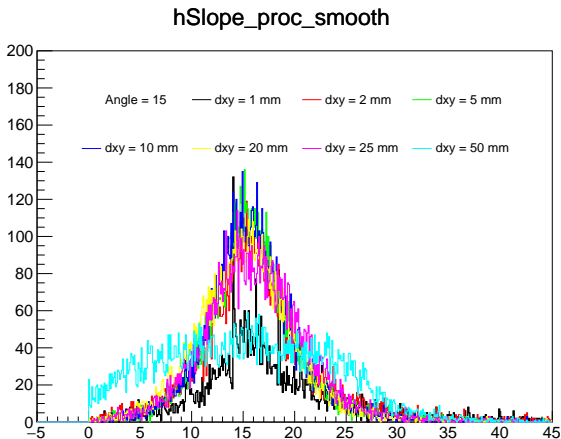


Report on KOTO EMCal Study

Junlee Kim

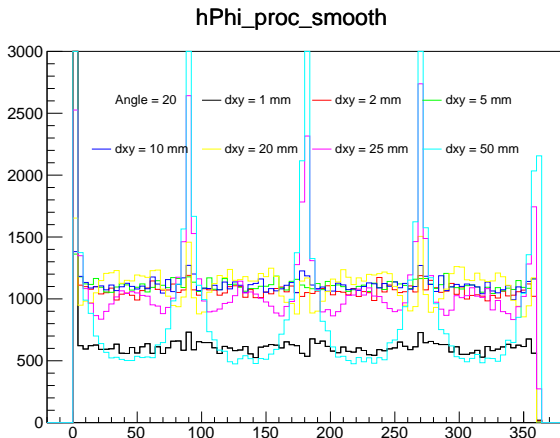
September 22, 2020

Segment dependence



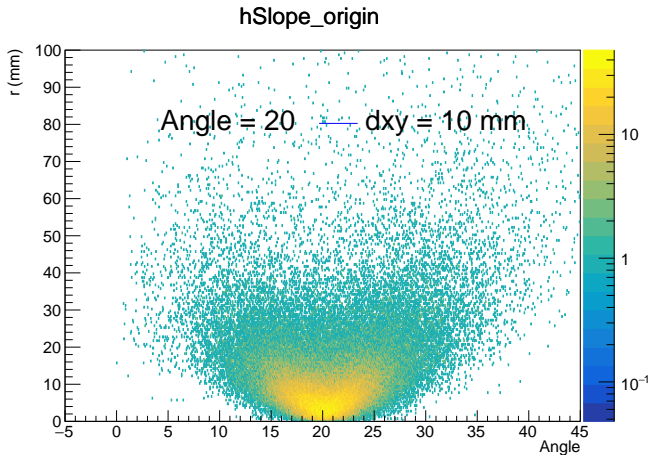
- ▶ Identical from 2 mm to 25 mm
- ▶ Larger event loss for 1 mm due to energy cut(3 MeV)

Phi reconstruction



- ▶ Not uniform until 10 cm.

Origin



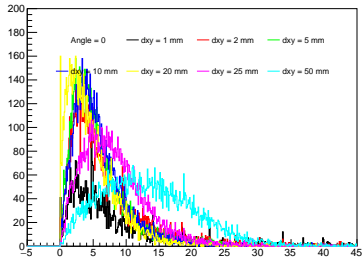
- Fit the data with fixed slope, which is already determined.

Outlook

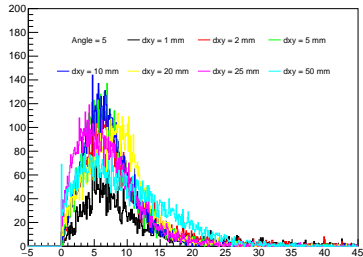
- ▶ No dramatic increases of tracking with fine segment.
- ▶ Phi direction reconstruction needs finer segments than 1 cm
- ▶ Things to do
 - ▶ Energy weighted mean
 - ▶ Other things to do?

Segment dependence

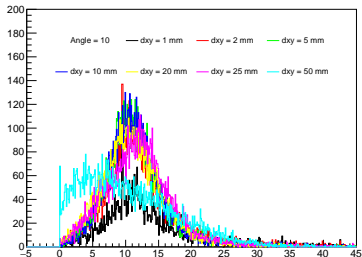
hSlope_proc_smooth



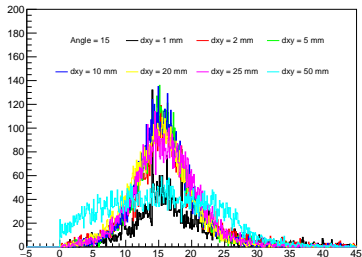
hSlope_proc_smooth



hSlope_proc_smooth

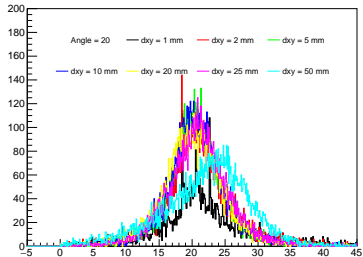


hSlope_proc_smooth

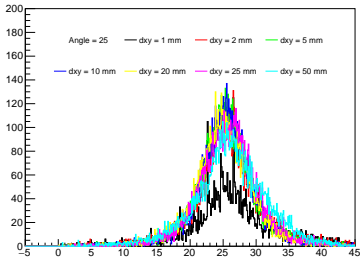


Segment dependence

hSlope_proc_smooth



hSlope_proc_smooth



hSlope_proc_smooth

