

Report on KOTO EMCal Study

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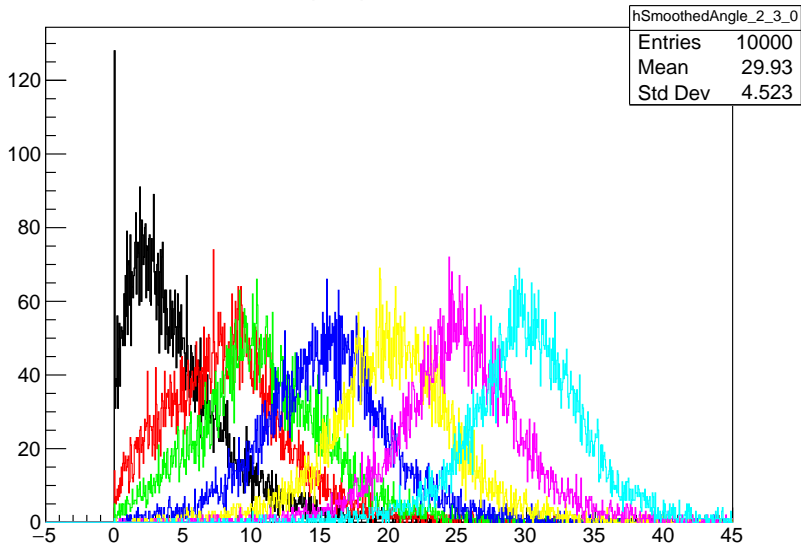
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New method for tracking

- ▶ Problems of previous methods
 - ▶ By averaging signals over segments, measurement of multiple photons is not possible.
- ▶ Slopes with every two points in different layers.
- ▶ Bring average slope.
 - ▶ For a single photon
 - ▶ Also favorable for two photons

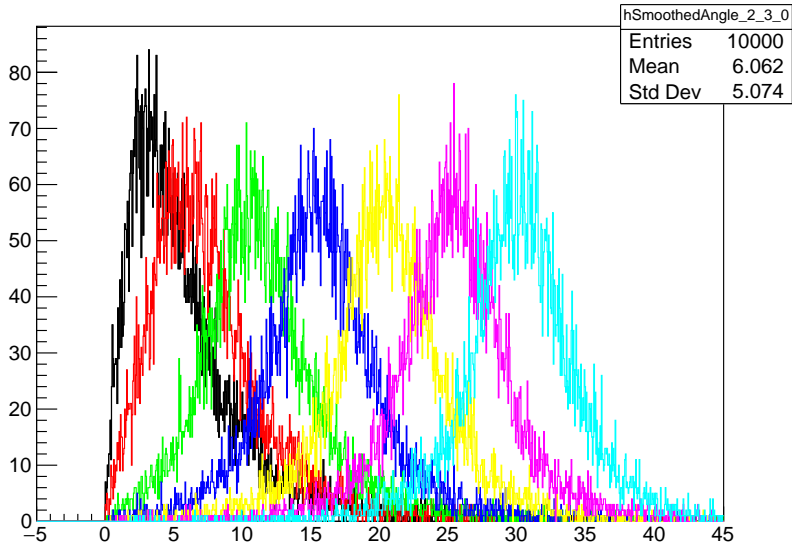
Tracking results

hSlope_proc_smooth



With fine segments (20→5 mm)

hSlope_proc_smooth



Outlook

- ▶ Still developing remaining part
 - ▶ Find origin
 - ▶ Clustering
- ▶ Can be applied to two gammas in a given event
- ▶ Pion reconstruction with current method