



SFT Group Meeting

Status Update #4

Konrad Helms

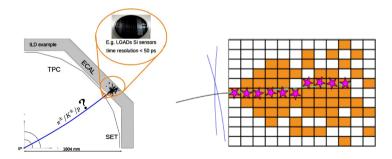
15th June 2023





What am I doing?

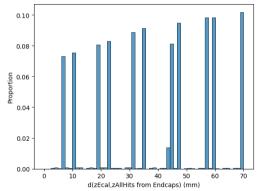
- Regression: TOF estimation using ML techniques based on ECal hits
- data: first 10 hits closest to extrapolated track in ECal







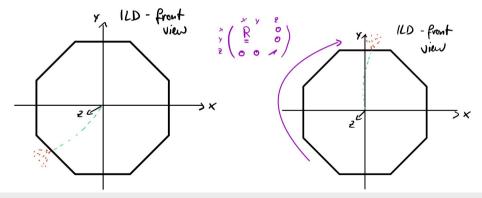
• fixed plot (plotting issue!)







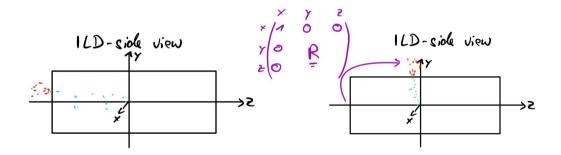
• find a suitable coordinate system - rotate & centre







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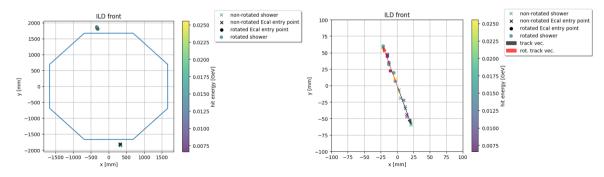






08 June - 15 June Barrel Particle Example

• left: rotated, right: rotated and centred

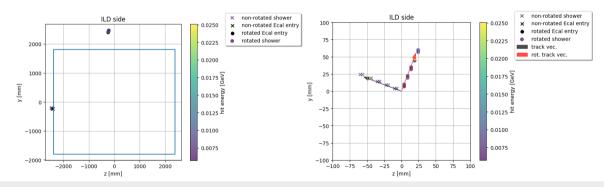






08 June - 15 June Endcap Particle Example

• left: rotated, right: rotated and centred







- generated dataset with 30 hits closest to track extrapolation
- generated dataset with full shower
- started looking at PointNet(++)





Outlook

• work on PointNet++ implementation