



SFT Group Meeting

Status Update #3

Konrad Helms

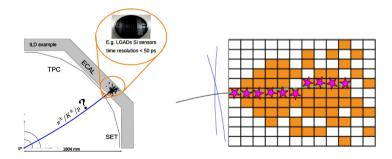
8th June 2023





What am I doing?

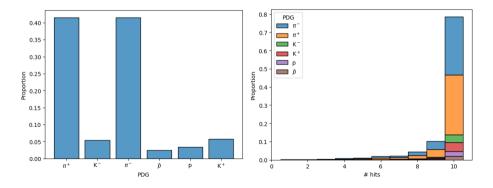
- Regression: TOF estimation using ML techniques based on ECal hits
- data: first 10 hits closest to extrapolated track in ECal





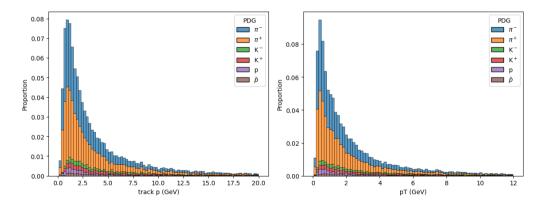


• to really make progress: understand data better! 🔁 plots!



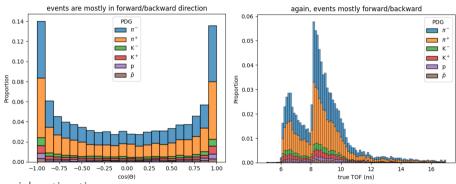








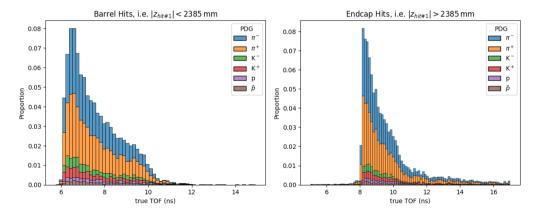




- quick estimation:
 - peaks at 6.5 ns and 8.5 ns
 - \implies 6.5 ns \cdot $c \simeq 1.95$ m and 8.5 ns \cdot $c \simeq 2.55$ m

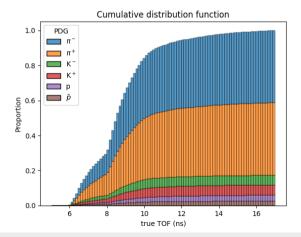






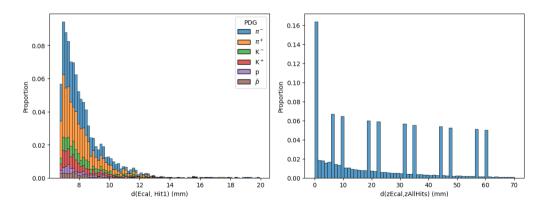








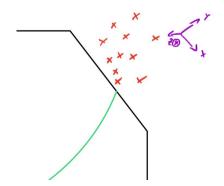


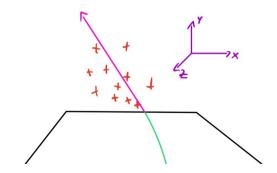






• new coordinate system

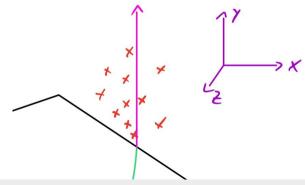








• new coordinate system



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Outlook

ullet generate dataset with ≥ 10 points

:

• point cloud approach