

Forward Tracking Hodoscope

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SANE Detector Working Group Meeting
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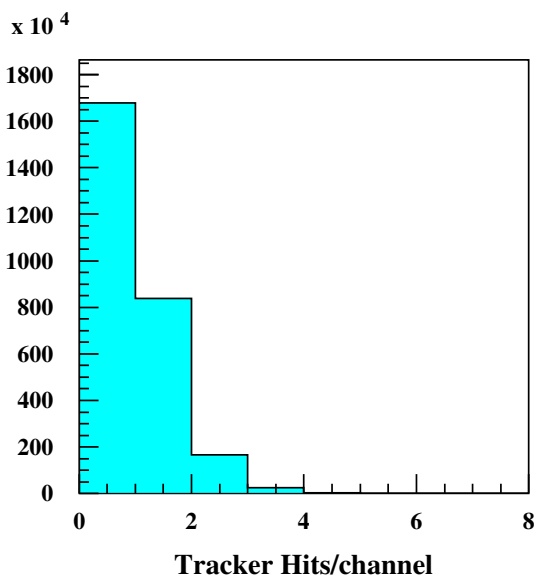
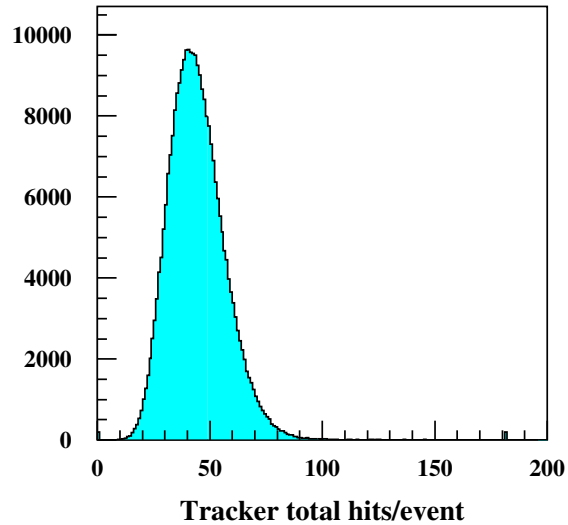
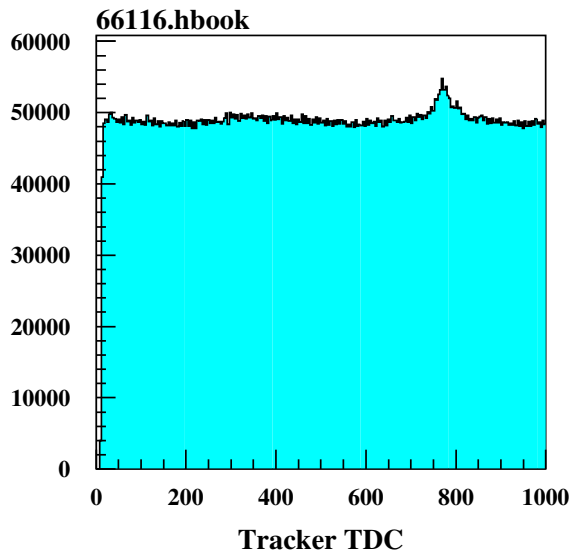
Tracker Beam Test Setup

- **One complete Y-plane of 128 counters ($44 \times 21 \text{ cm}^2$).**
- **Located $\sim 65 \text{ cm}$ from target at $\sim 60 \text{ deg}$.**
- **BigCal ($218 \times 120 \text{ cm}^2$) at 600 cm from target.**
- **BigCal acceptance covers ($24 \times 13 \text{ cm}^2$) on Tracker (68 bars).**
- **Target: 4 cm LH2 and BeO (0.2918 g/cm^2).**
- **$E_e = 2.536 \text{ GeV}$.**
- **$I_e = 0.5$ and $0.1 \mu\text{A}$.**

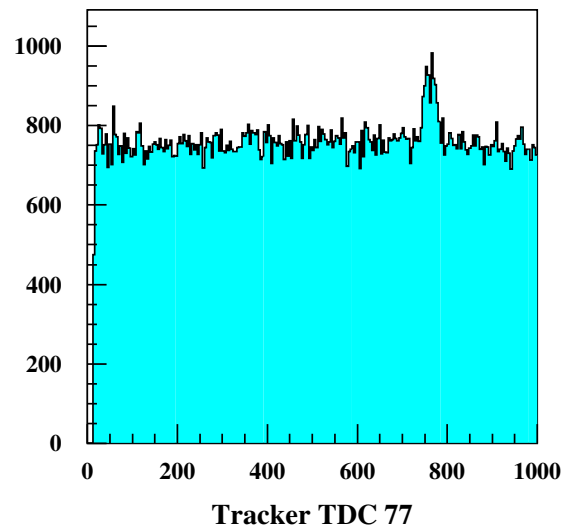
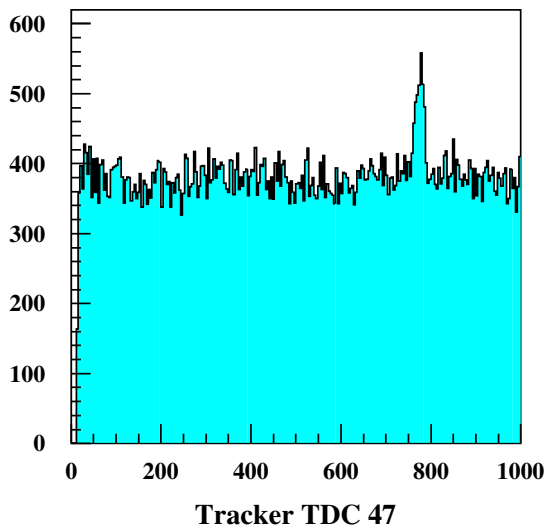
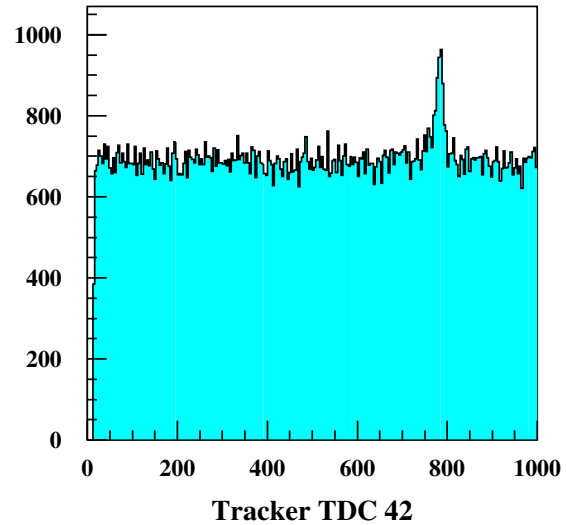
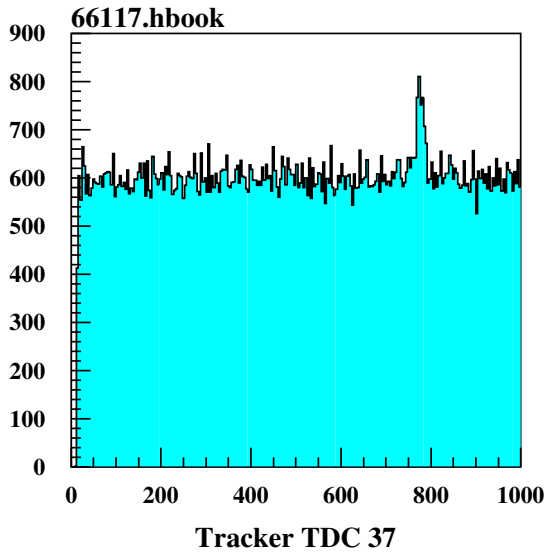
Single Counter Rates

I_{beam} (μA)	Tgt.	HV (V)	Discr. (-mV)	Avg. Rate (kHz)
0.5	LH2	700	-35	2000
0.1	BeO	750	-35	250
0.1	BeO	800	-75	500
0.1	BeO	825	-75	750
0.1	BeO	850	-75	875

Time Response of All Counters

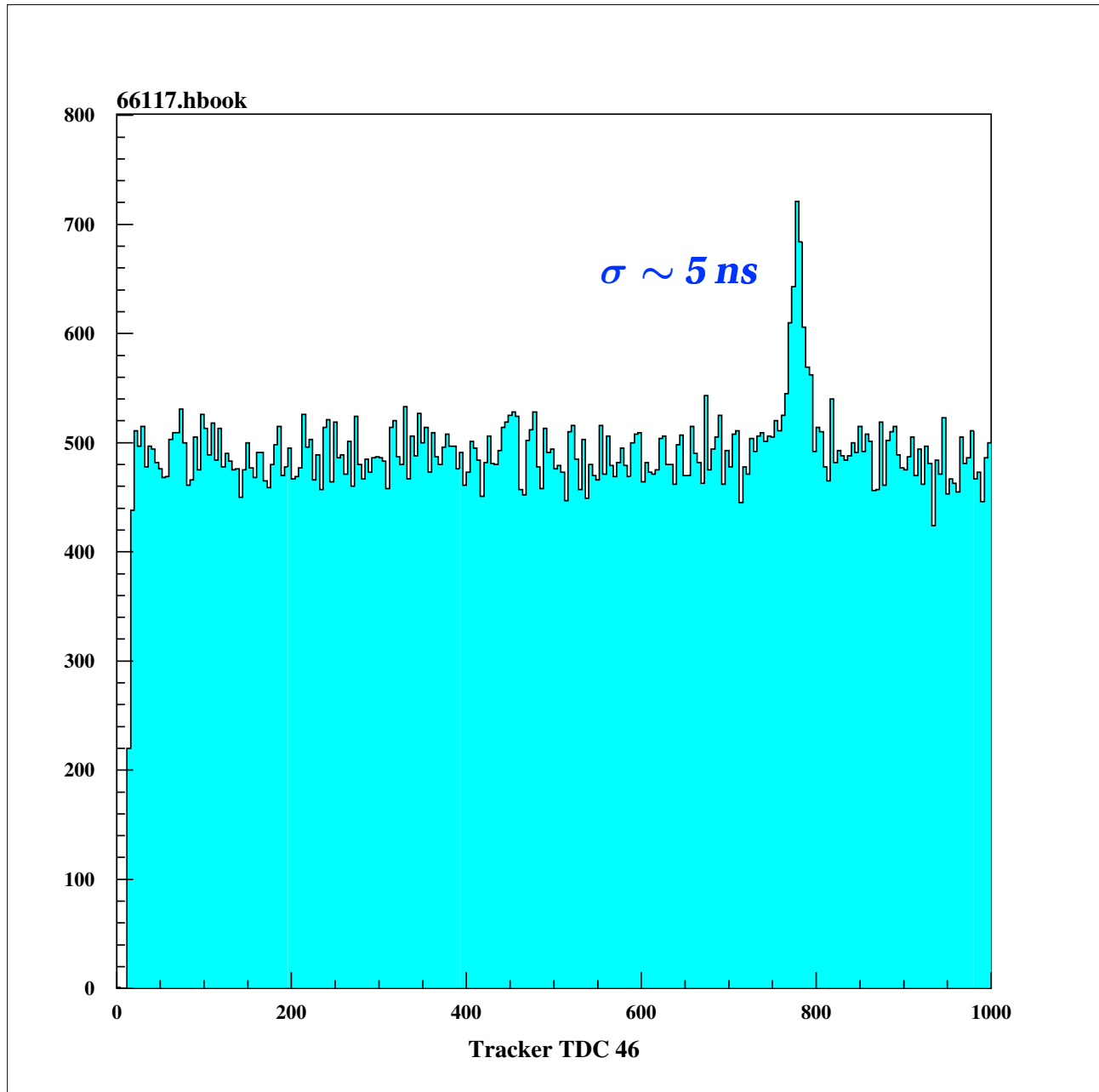


Time Response of Individual Counters



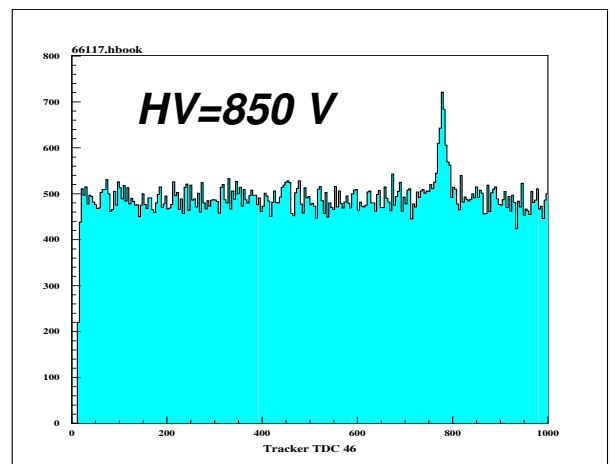
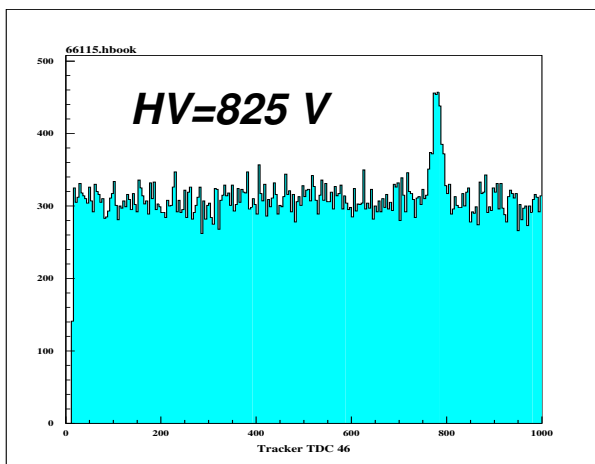
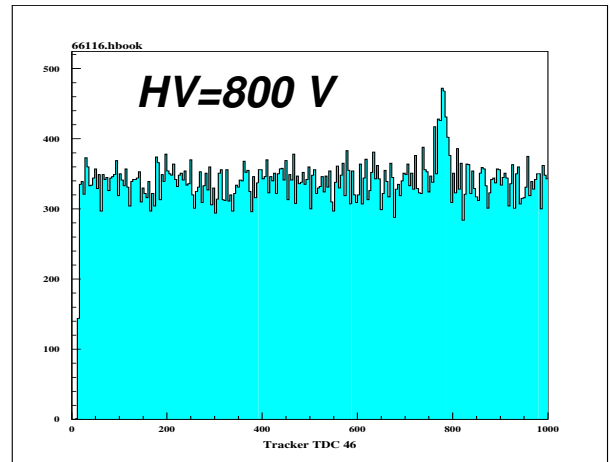
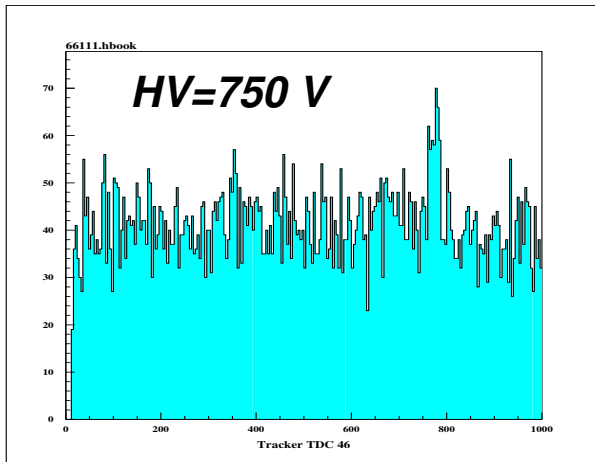
Time Resolution

- *For a single counter.*



HV Scan Results

- *For a typical counter.*



- *Difficult to conclude at this stage.*

Time Response of All Counters

