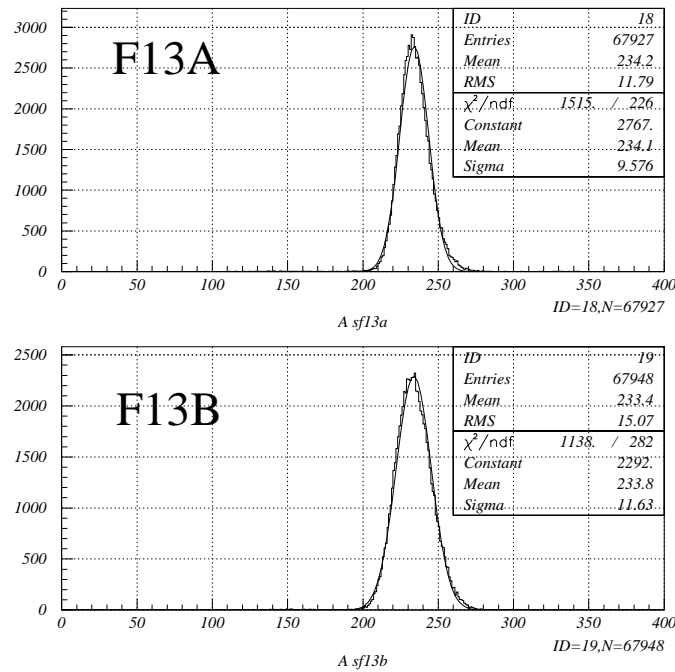


Memo on Samurai standard detectors from 7-Apr-2016 overnight run

- SBT : SF13A, SF13B
- BDC1, 2

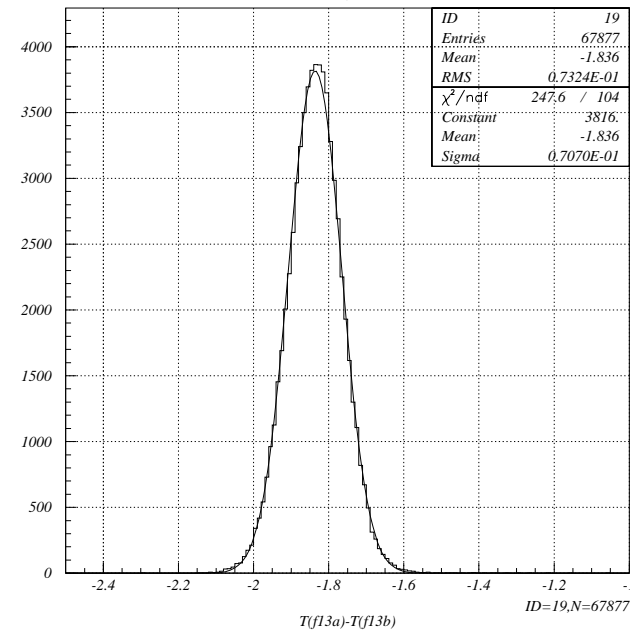
- HV set
 - signal~ 400mV @B3F patch. cf: $V_{th}(B2F) = 40mV$
 - HV : ~1000V (F13A), ~1030V (F13B), with booster on
- Scintillator
 - 120mm x 120mm x 0.2mm ^t

• Pulse height distribution



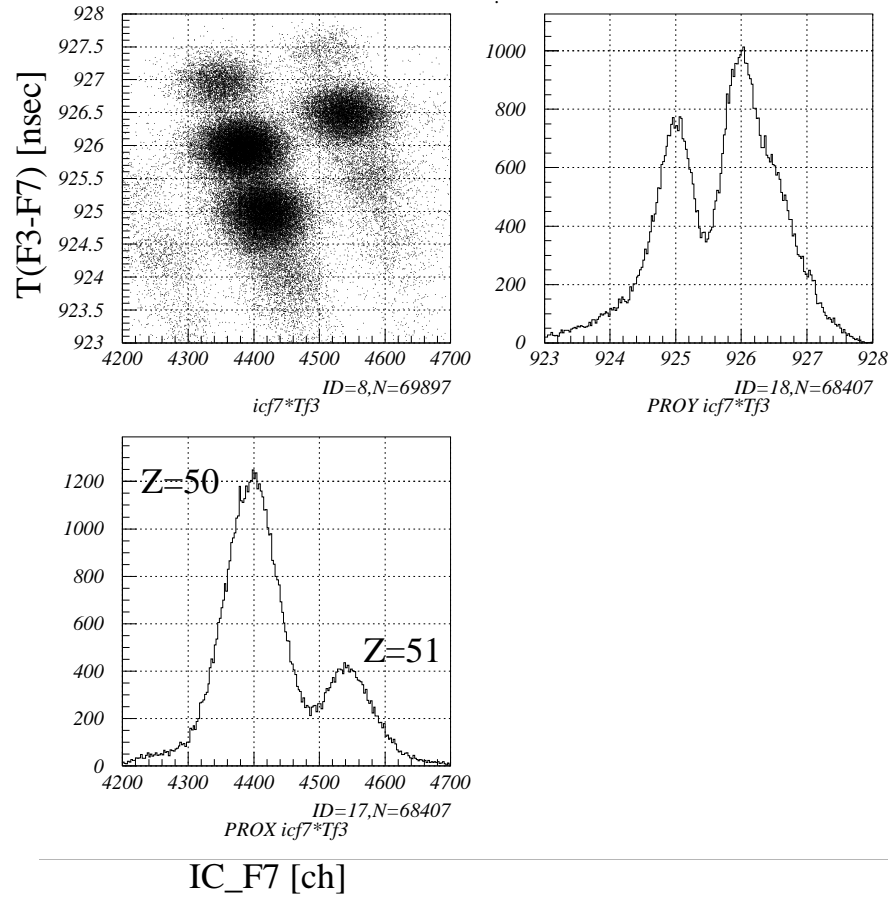
- σ_A/A : ~4.1%(SF13A), ~5.0%(SF13B)

• Time Resolution from T(F13A)-T(F13B)

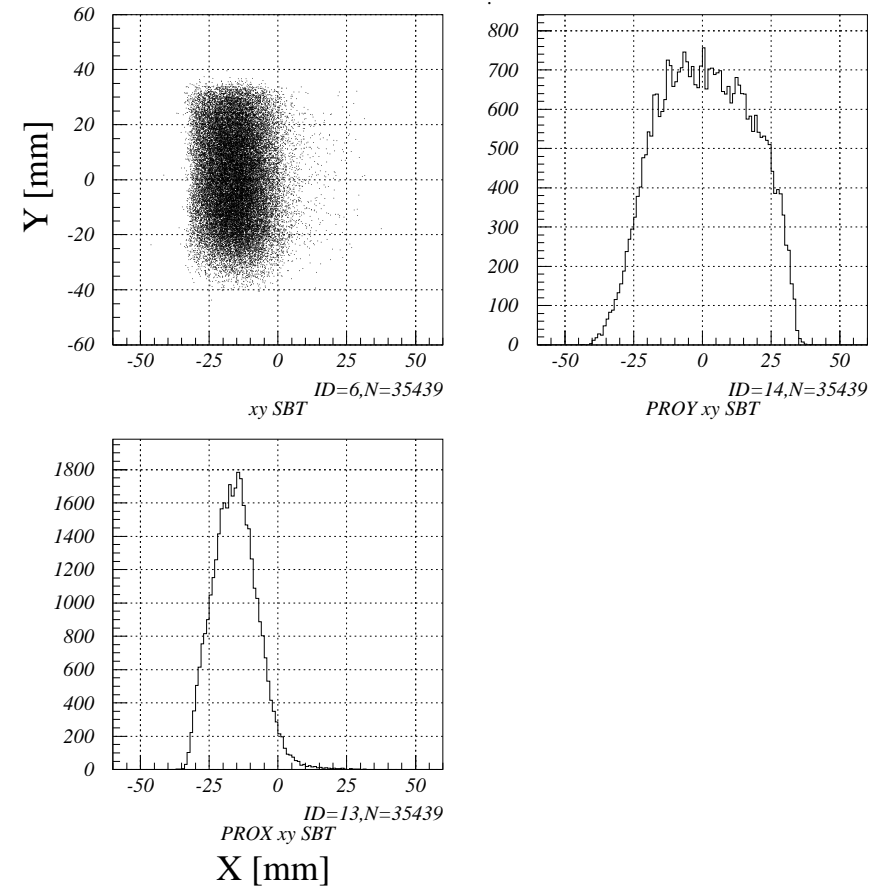


- $\sigma_T (T_{F13A}-T_{F13B}) \sim 71$ psec
 - $\rightarrow \sigma_T \sim 50$ psec

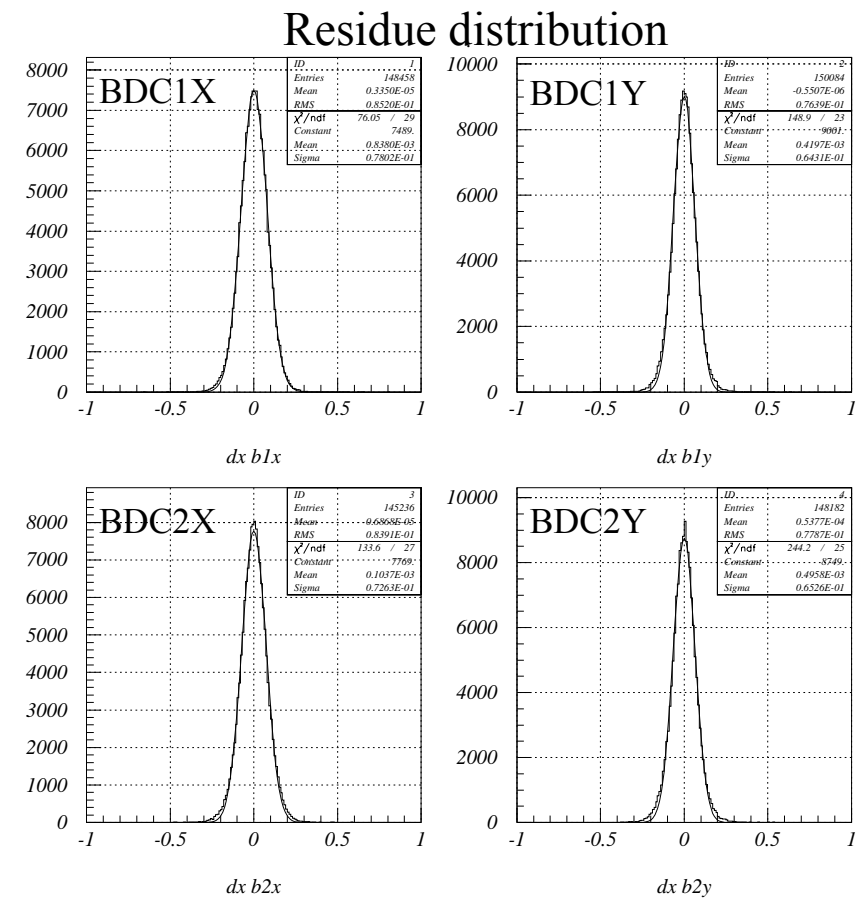
- Secondary beam : Z=50+51



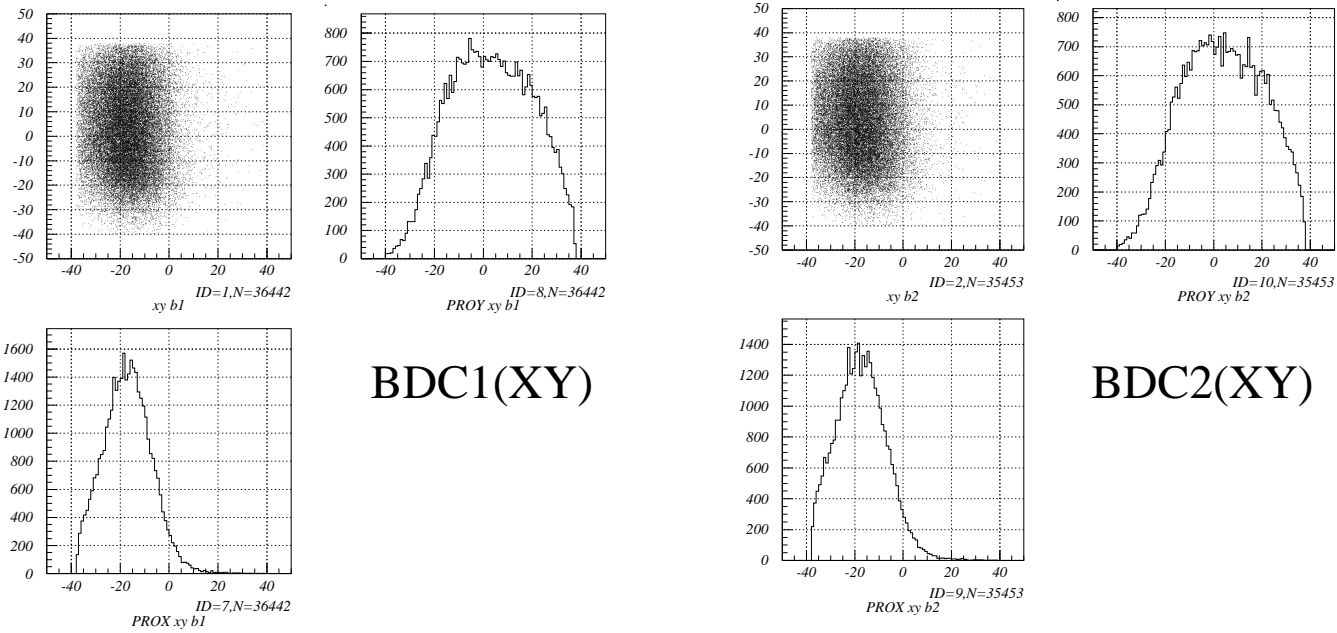
- Beam distribution (X,Y) @SBT



- Gas : $P(i-C_4H_{10}) = 30$ torr
- HV setting : $V_{cathode} = V_{potential}$
- Efficiency
 - checked only at $V = 350V$ & $400V$
 - absolute efficiency not measured, since beam was wider
 - $\epsilon_{tot}(350V) \sim \epsilon_{tot}(400V) \sim 95.9 \pm 0.1\%$
 - probably at the HV plateau $\sim 100\%$
 - actually $>99.5\%$ (only) for run's 1745 & 1746
 - $\epsilon_{M1}(350V) \sim 1.6\%$, $\epsilon_{M1}(400V) \sim 3.8\%$
- Position resolution
 - estimated from residue distribution
 - @350V : $\sigma_{BDCX} \sim 129\mu m$, $\sigma_{BDCY} \sim 111\mu m$
 - @400V : $\sigma_{BDCX} \sim 106\mu m$, $\sigma_{BDCY} \sim 92\mu m$
 - typically $\sigma \sim 100\mu m$
 - $\sigma_{Xplane} > \sigma_{Yplane} : ?$
- HV set for Sn beam
 - HV = 400V seems to be sufficient



- at BDC1, BDC2



- Phase space @target

