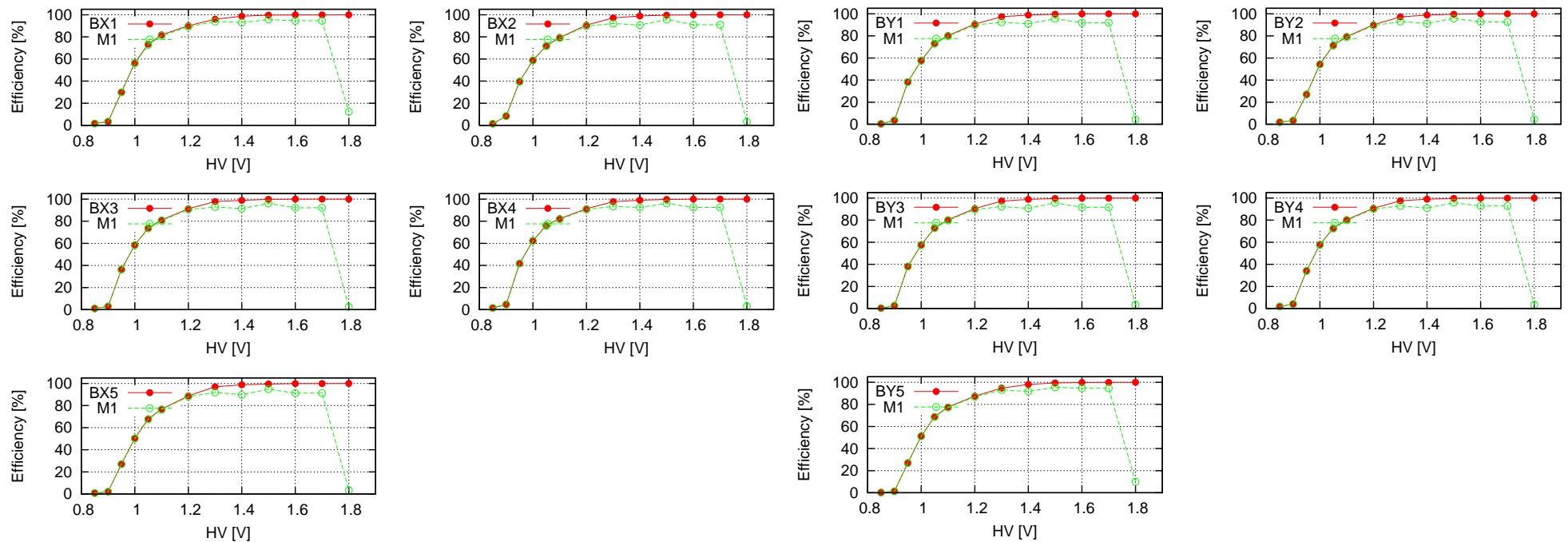


BDC memo-4 @HIMAC PH2

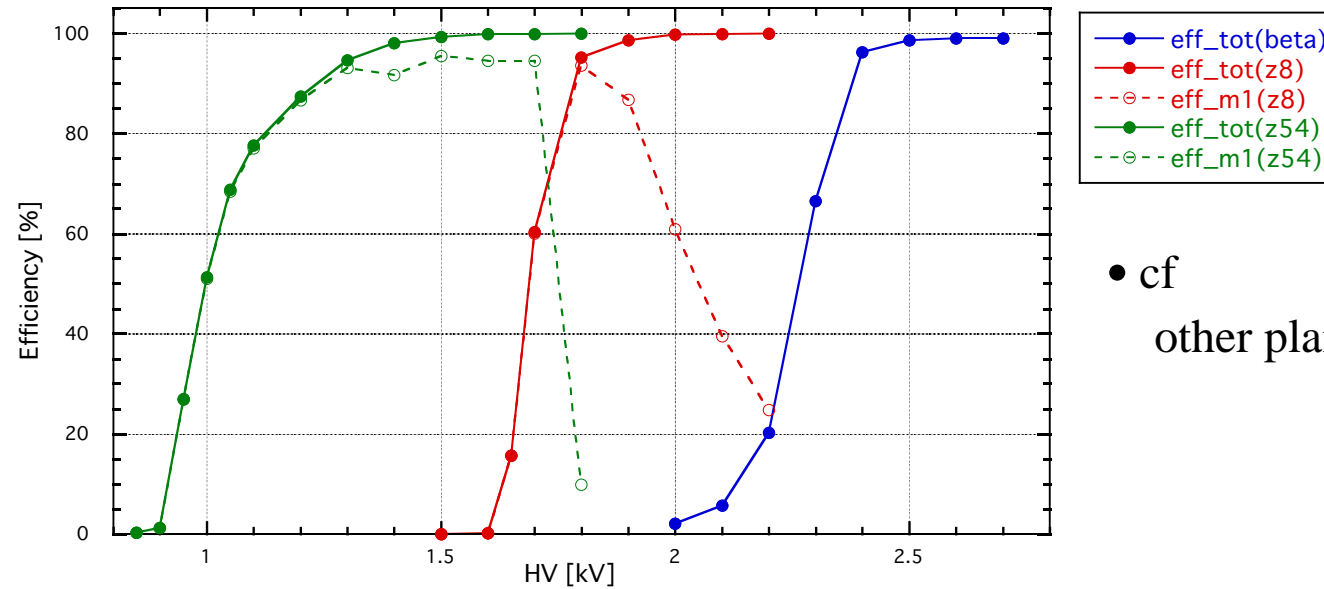
Kobayashi T.
27-Feb-2016

- 26-Feb-2016 overnight run
 - $^{131}\text{Xe}(z=54)$ 290 MeV/u

- Conditions
 - date: 26-Feb-2016 night
 - run: run0328 ~ run0340, HV: 0.85 kV - 1.80 kV
 - bean intensity : ~13 kppp
 - beam profile: wide beam in the vertical direction
- HV set
 - HV= 1.3 kV ← efficiency, drift time distribution
 - drift time distribution has dip at 1.5 kV



- efficiency for Y5



- cf

other planes have higher efficiency

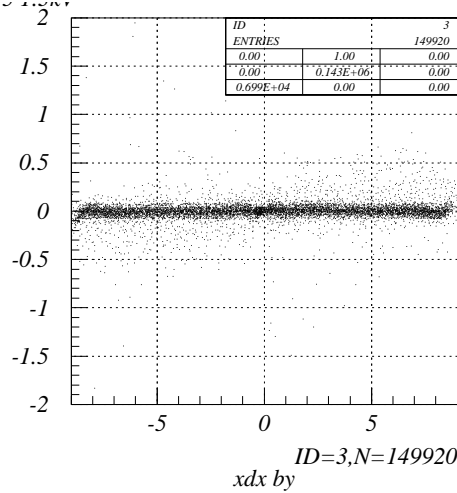
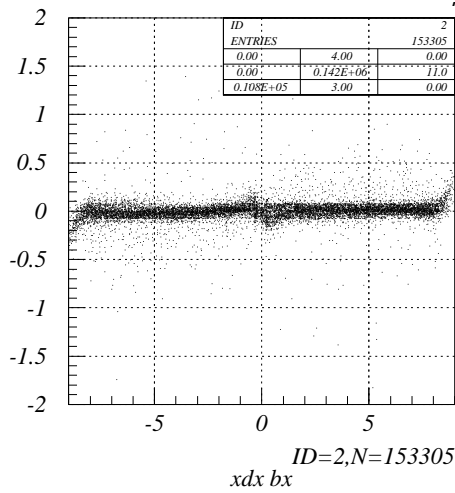
- energy-loss

- $\Delta E(z8)/\Delta E(\beta) \sim 128 = 2^7$
- $\Delta E(z54)/\Delta E(z8) \sim 45.6 = 2^{5.5}$

- ?'s

- consistency with energy loss ?
- slope ?? (same effect is observed also for FDC2@samurai)

Position resolution for $^{131}\text{Xe}(z=54)$ @ 1.3 kV



- run0355
 - 1.3kV, ~13 kppp
 - beam trigger
- residue (resolution/plane)
 - X: 49 um (64 um)
 - Y: 39 um (51 um)
 - position resolution $\sigma < 100$ um for Xe

