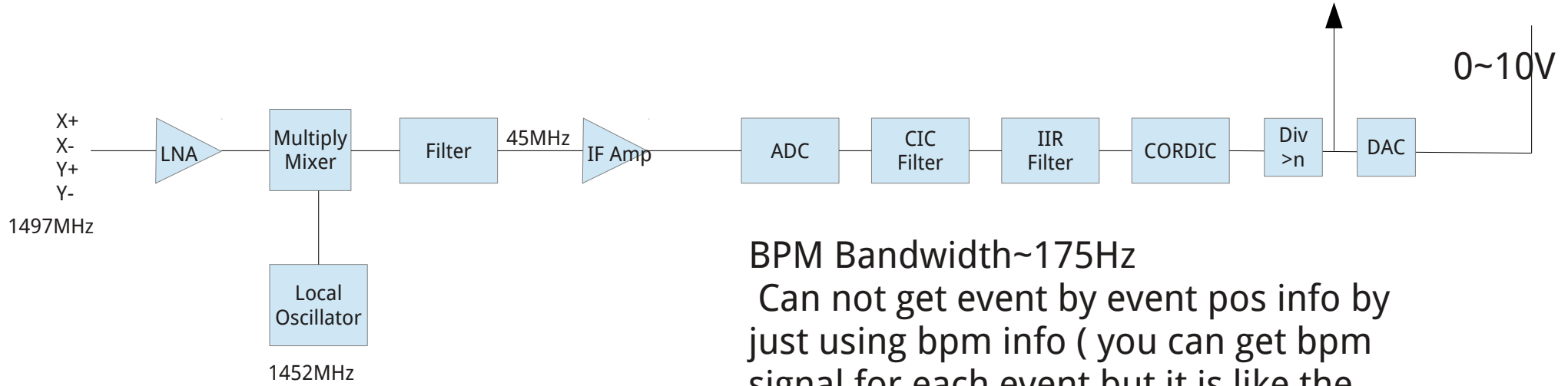


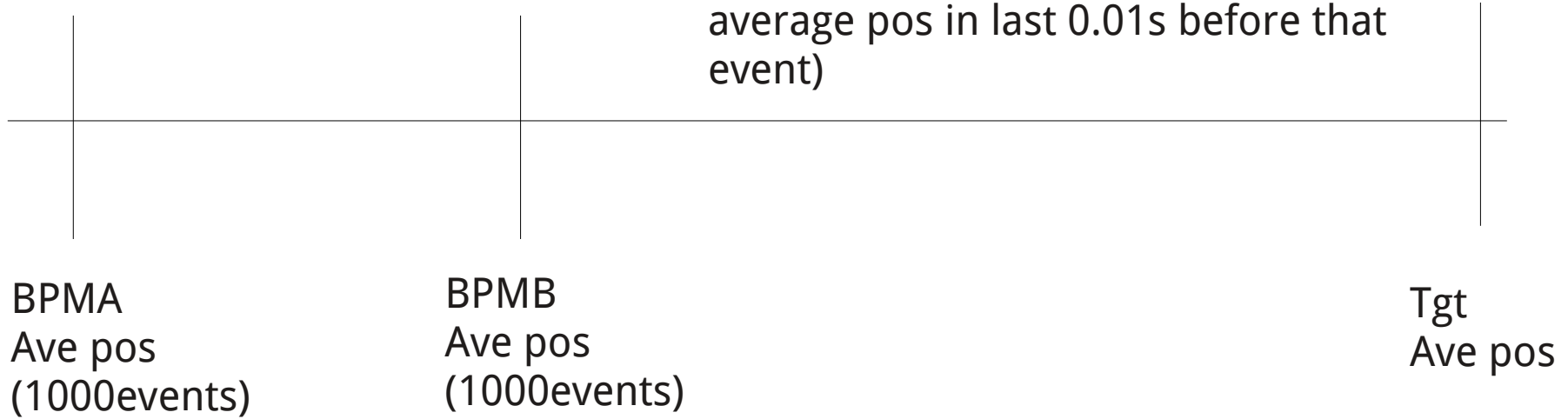
BPM Status

Pengjia Zhu
12.11.2012



BPM Bandwidth~175Hz

Can not get event by event pos info by just using bpm info (you can get bpm signal for each event but it is like the signal you got for that event is the average pos in last 0.01s before that event)

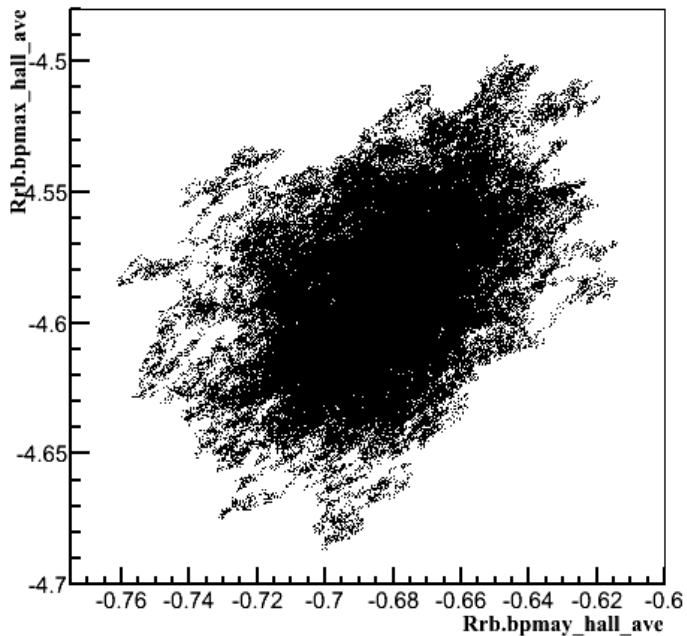


BPMA pos

BPMA pos

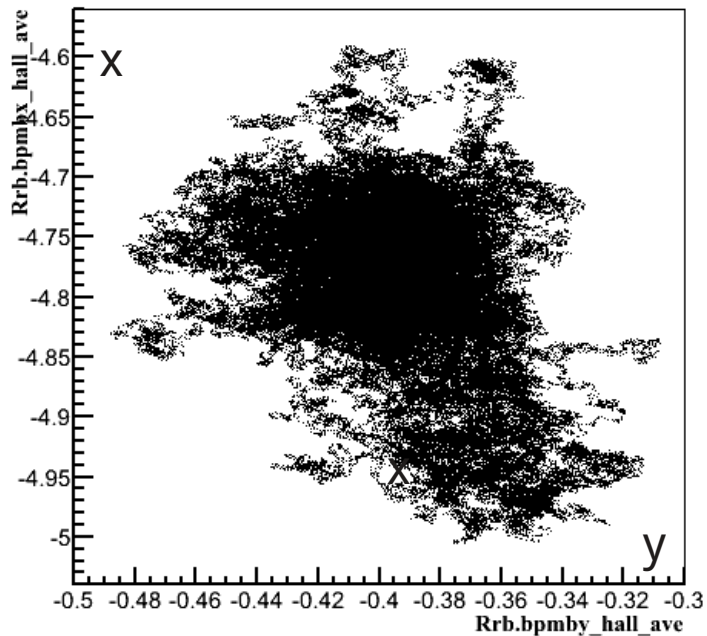
Use raster to get event by event pos (what about non raster setting(optics))

Rrb.bpmax_hall_ave:Rrb.bpmax_hall_ave (EntryS<200000&&Rrb.bpmavail>0)



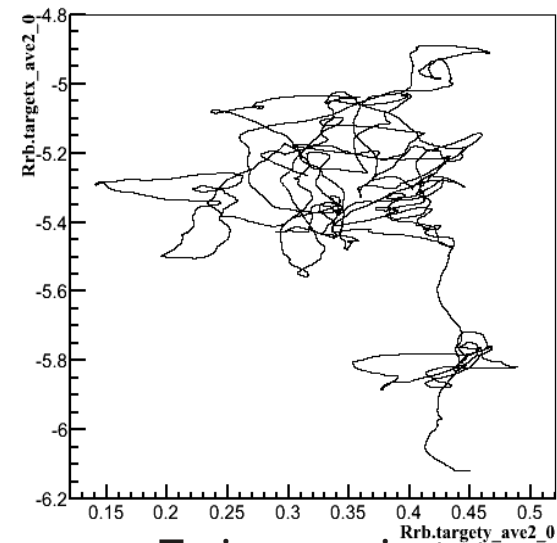
Average pos in bpm A
(1000 events)

Rrb.bpmbx_hall_ave:Rrb.bpmby_hall_ave (EntryS<200000&&Rrb.bpmavail>0)



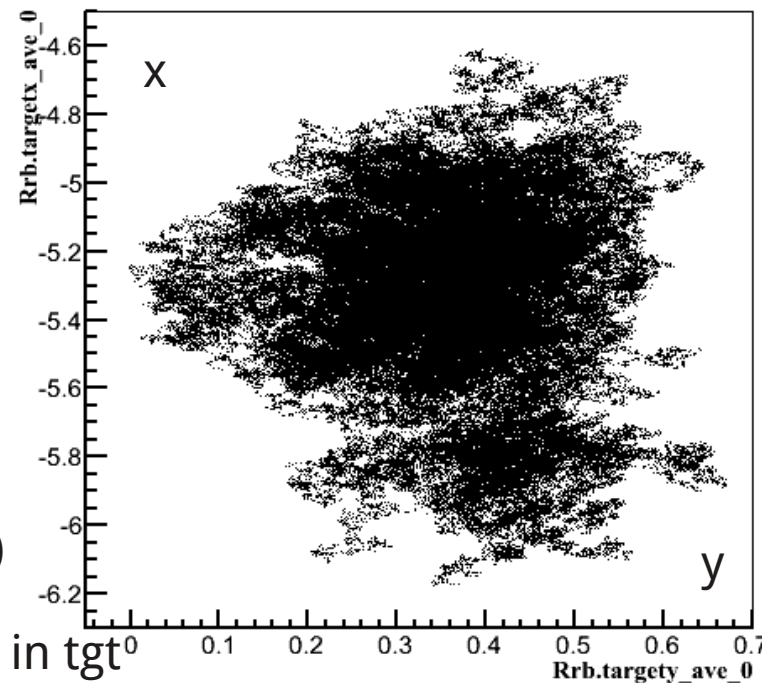
Average pos in bpm B

Rrb.targets_ave2_0:Rrb.targets_ave2_0 (EntryS<200000&&Rrb.bpmavail>0)

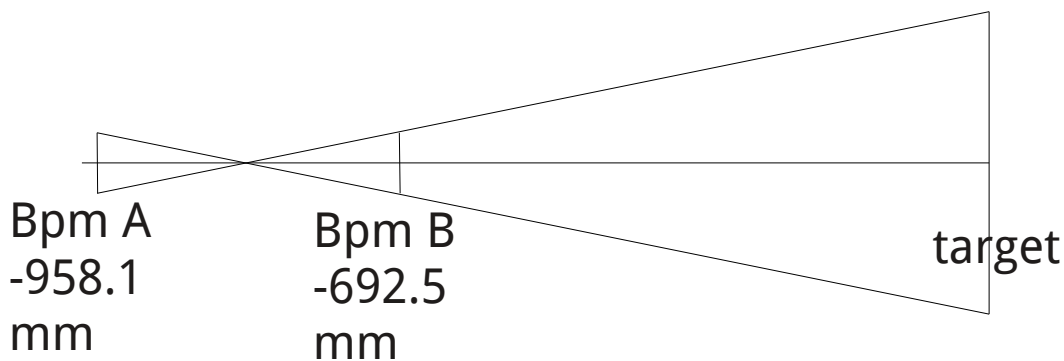


Twice ave in tgt
(5000 events)

Rrb.targets_ave_0:Rrb.targets_ave_0 (EntryS<200000&&Rrb.bpmavail>0)



calculated pos in tgt



$dx_tgt = az / (bz - az) * dx_b + bz / (bz - az) * dx_a$ (straight through)
 → Huge size in tgt

Next step:

- add error in minuit fit for bpm calibration
(will affect calibration constant)