

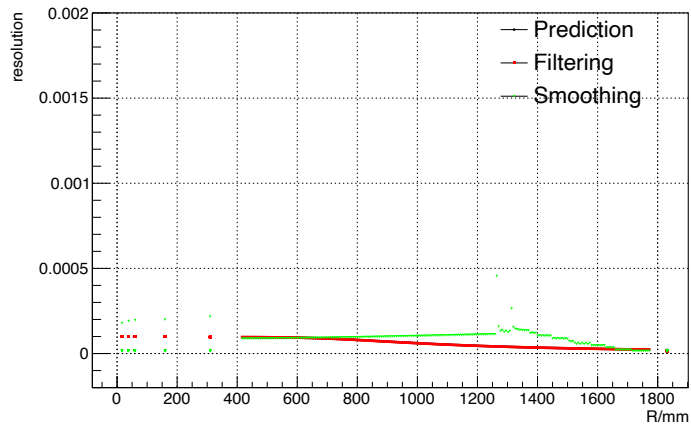
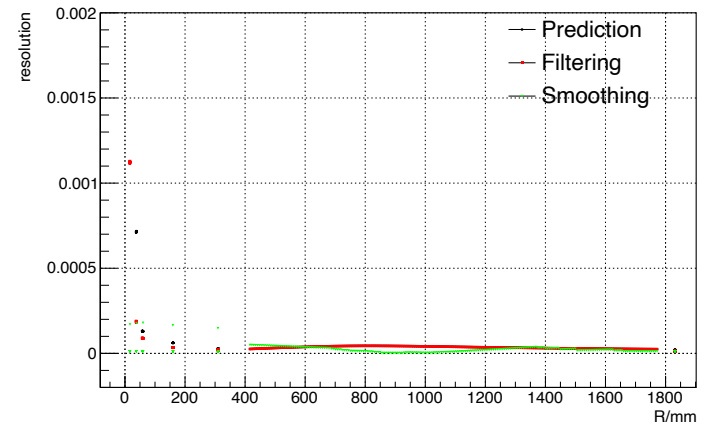
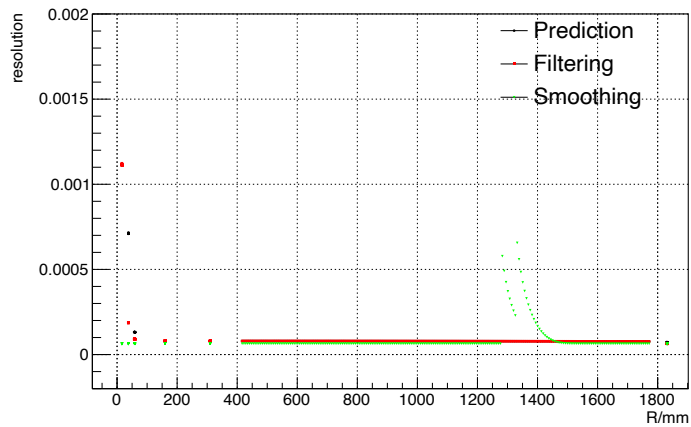
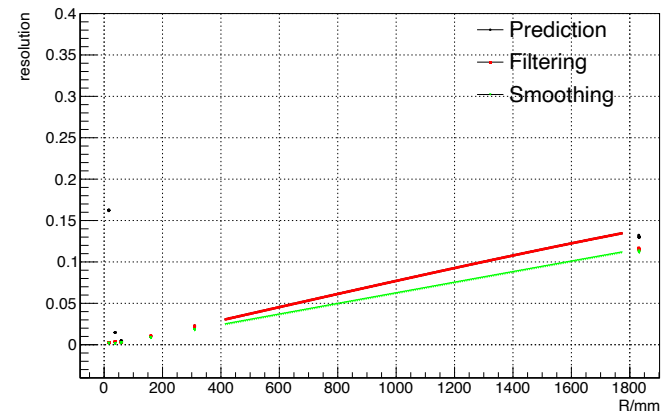
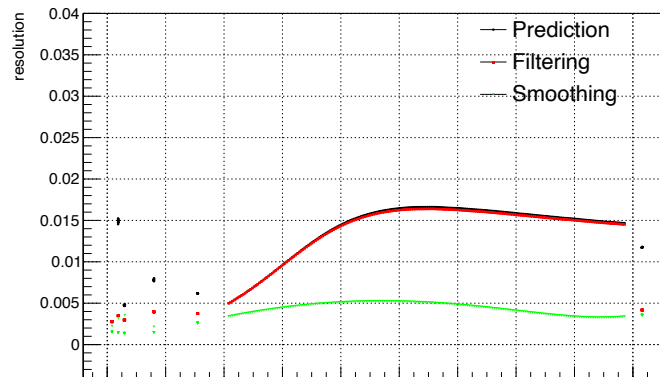
Checks on ACTS

Gang LI

2020 Aug 24-25

Yebo 1M events

- * Theta = 85 degree, $p_t = 100$ GeV, $B=3$ T, no JSON
- * Overlap and missing points tracks removed
- * 36 degree as a phi sector for each layer



item	LOC0(μm)	LOC1(μm)	PHI (mrad)	THETA (mrad)	Q/P(10^{-3})
res. in prediction	0.12 ± 18.35	0.51 ± 109.03	0.00 ± 0.09	-0.00 ± 0.18	0.00 ± 0.05
res. in filtering	0.12 ± 17.72	0.52 ± 108.15	0.00 ± 0.09	-0.00 ± 0.18	0.00 ± 0.05
res. in smoothing	0.03 ± 8.98	0.12 ± 89.03	-0.00 ± 0.03	-0.00 ± 0.09	0.00 ± 0.03
res. at perigee	-0.02 ± 4.30	-0.01 ± 16.64	-0.00 ± 0.08	-0.00 ± 0.12	0.00 ± 0.03
res. in vxd in prediction	-0.08 ± 16.45	-0.13 ± 77.32	-0.00 ± 0.33	-0.01 ± 0.60	0.00 ± 0.06
res. in vxd in filtering	-0.01 ± 3.09	-0.00 ± 3.09	-0.00 ± 0.30	-0.01 ± 0.53	0.00 ± 0.06
res. in vxd in smoothing	-0.01 ± 2.40	0.01 ± 2.63	0.00 ± 0.05	-0.00 ± 0.10	0.00 ± 0.03
res. in sit in prediction	-0.08 ± 14.92	-0.14 ± 23.52	-0.00 ± 0.13	-0.00 ± 0.12	0.00 ± 0.06
res. in sit in filtering	-0.01 ± 4.61	-0.12 ± 22.91	0.00 ± 0.05	-0.00 ± 0.12	0.00 ± 0.06
res. in sit in smoothing	0.00 ± 4.35	0.01 ± 39.50	0.00 ± 0.08	-0.00 ± 0.13	0.00 ± 0.03
res. in tpc in prediction	0.13 ± 18.42	0.54 ± 109.98	0.00 ± 0.08	-0.00 ± 0.16	0.00 ± 0.05
res. in tpc in filtering	0.12 ± 18.06	0.54 ± 109.96	0.00 ± 0.08	-0.00 ± 0.16	0.00 ± 0.05
res. in tpc in smoothing	0.03 ± 9.14	0.13 ± 90.27	-0.00 ± 0.03	-0.00 ± 0.09	0.00 ± 0.03
res. in set in prediction	0.07 ± 19.48	-0.96 ± 156.97	0.00 ± 0.06	-0.00 ± 0.14	0.00 ± 0.04
res. in set in filtering	-0.01 ± 4.83	-0.64 ± 138.61	0.00 ± 0.03	-0.00 ± 0.10	0.00 ± 0.03
res. in set in smoothing	-0.01 ± 4.83	-0.64 ± 138.61	0.00 ± 0.03	-0.00 ± 0.10	0.00 ± 0.03
item	LOC0	LOC1	PHI	THETA	Q/P
pull in prediction	0.01 ± 1.00	0.01 ± 1.00	0.01 ± 1.00	-0.01 ± 1.00	-0.01 ± 1.00
pull in filtering	0.01 ± 1.00	0.01 ± 1.00	0.01 ± 1.00	-0.01 ± 1.00	-0.01 ± 1.00
pull in smoothing	0.00 ± 0.92	0.00 ± 0.99	-0.00 ± 0.72	-0.00 ± 0.99	0.00 ± 1.07
pull at perigee	0.00 ± 1.01	-0.01 ± 1.14	-0.00 ± 1.04	-0.01 ± 1.25	0.00 ± 1.37
pull in vxd in prediction	-0.01 ± 1.00	-0.01 ± 1.00	-0.01 ± 1.00	-0.01 ± 1.00	-0.01 ± 1.00
pull in vxd in filtering	0.00 ± 1.00	-0.00 ± 1.00	-0.01 ± 1.00	-0.01 ± 1.00	-0.01 ± 1.00
pull in vxd in smoothing	0.00 ± 0.99	0.00 ± 0.97	0.00 ± 1.01	0.00 ± 1.05	0.00 ± 1.37
pull in sit in prediction	0.00 ± 1.00	-0.01 ± 1.00	-0.00 ± 1.00	-0.01 ± 1.00	-0.01 ± 1.00
pull in sit in filtering	0.00 ± 1.00	-0.01 ± 1.00	0.00 ± 1.00	-0.01 ± 1.00	-0.01 ± 1.00
pull in sit in smoothing	0.00 ± 0.97	0.00 ± 0.59	0.00 ± 0.93	0.00 ± 0.89	0.00 ± 1.29
pull in tpc in prediction	0.01 ± 1.00	0.01 ± 1.00	0.01 ± 1.00	-0.01 ± 1.00	-0.01 ± 1.00
pull in tpc in filtering	0.01 ± 1.00	0.01 ± 1.00	0.01 ± 1.00	-0.01 ± 1.00	-0.01 ± 1.00
pull in tpc in smoothing	0.00 ± 0.92	0.00 ± 0.99	-0.00 ± 0.70	-0.00 ± 0.98	0.00 ± 1.06
pull in set in prediction	0.00 ± 1.01	-0.01 ± 1.00	0.00 ± 1.00	-0.01 ± 1.00	-0.01 ± 1.00
pull in set in filtering	0.00 ± 1.00	-0.00 ± 1.01	0.00 ± 1.00	0.00 ± 1.01	-0.01 ± 1.00
pull in set in smoothing	0.00 ± 1.00	-0.00 ± 1.01	0.00 ± 1.00	0.00 ± 1.01	-0.01 ± 1.00