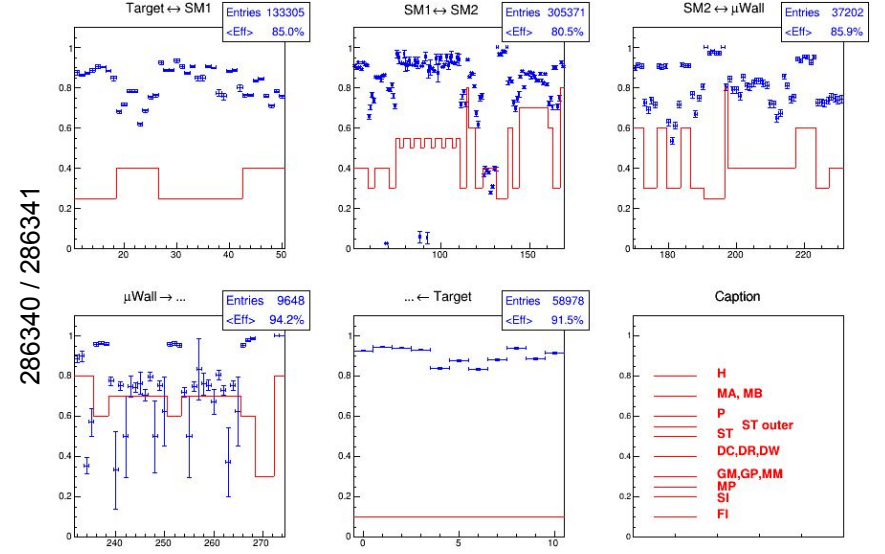
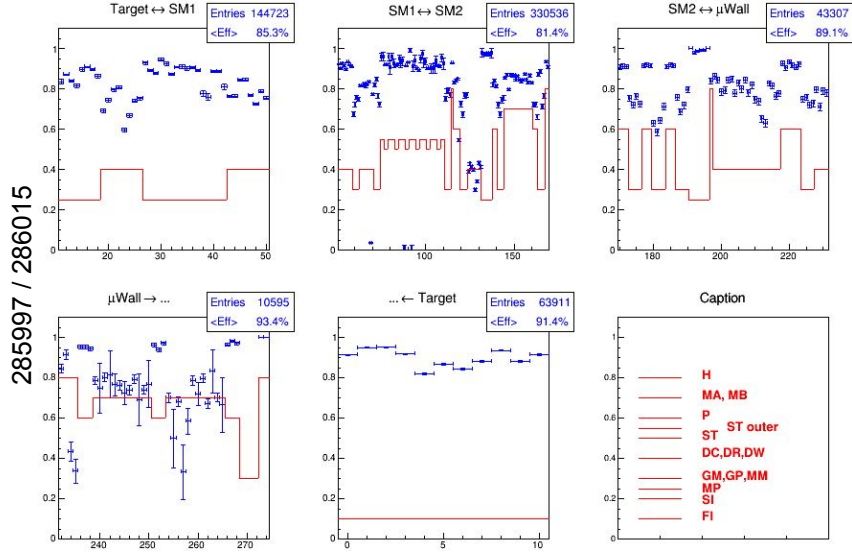


Alignment Status

(DY 2018), notes for CW 31.10.018

Renat Dusaev

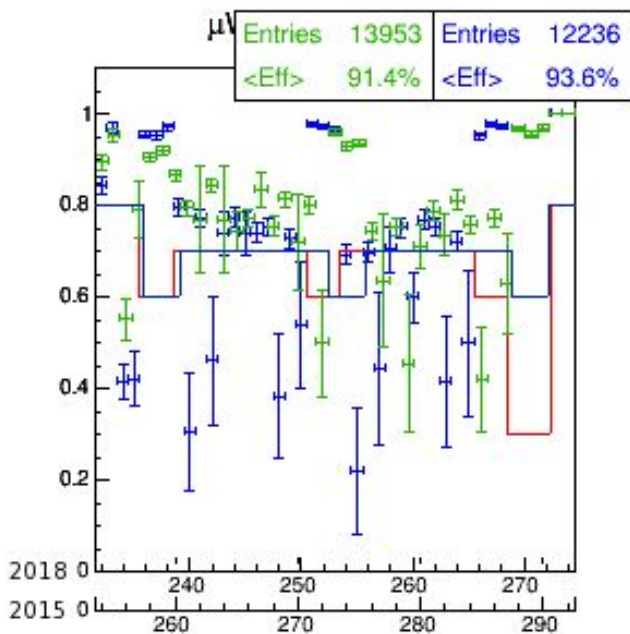
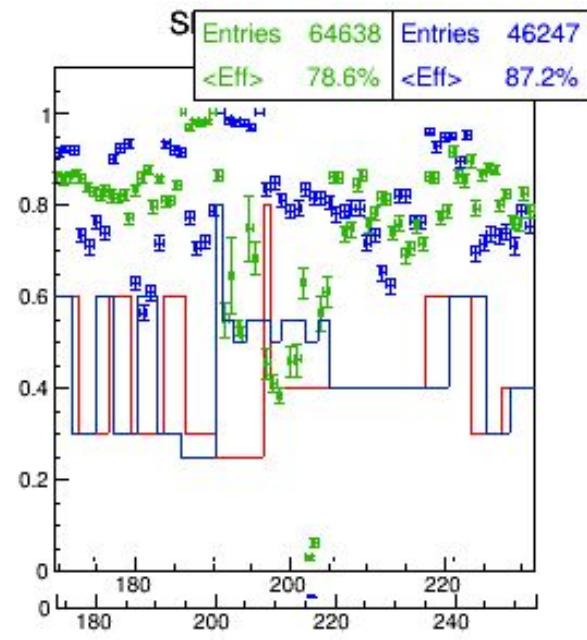
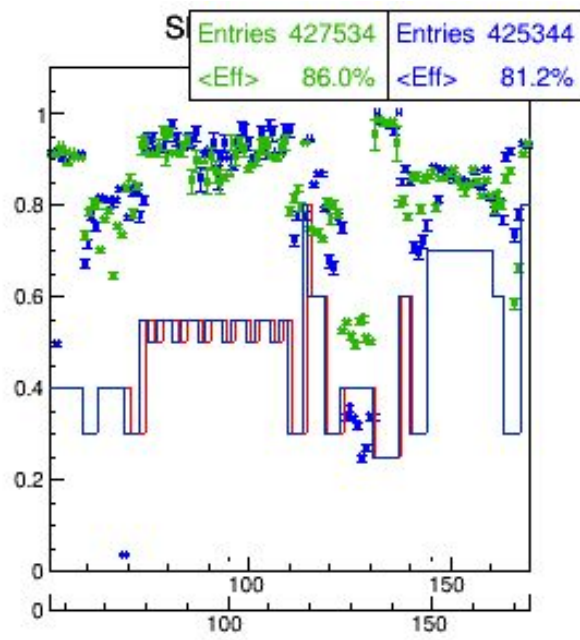
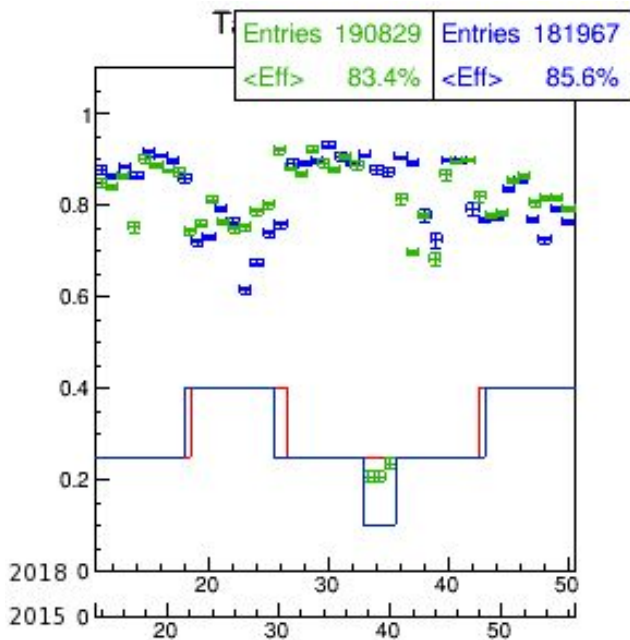


DT Per.	Date	Alignment Runs, #	χ^2 /ndf: mean ; RMS
T02	05 May	282704/282705	2.82 ; 2.41
T02	08 May	282929/282928	-
W01	17 May	283132/283130	2.37 ; 1.88
W01	24 May	283306/283309	2.19 ; 1.86
W02	13 June	283715/283713	2.14 ; 2.05
W04	29 June	284068/284066	2.15 ; 1.79
W05	10 July	284454/284453	2.24 ; 1.99
W06	17 July	284624/284626	2.23 ; 1.81

DT Per.	Date	Alignment Runs, #	χ^2 /ndf: mean ; RMS
W10	09 Aug	285160/285161	2.2 ; 1.77
W12	29 Aug	285656/285657	2.05 ; 1.74
W14	11 Sep	285997/286015	2.25 ; 2.08 (upcoming)
W17	27 Sep	286340/286341	2.1 ; 1.81 (upcoming)
W19	12 Oct	286791/286795	-
W21	25 Oct	287127/287129	-

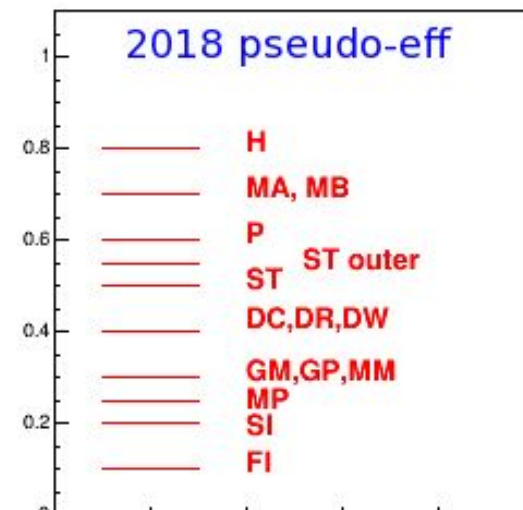
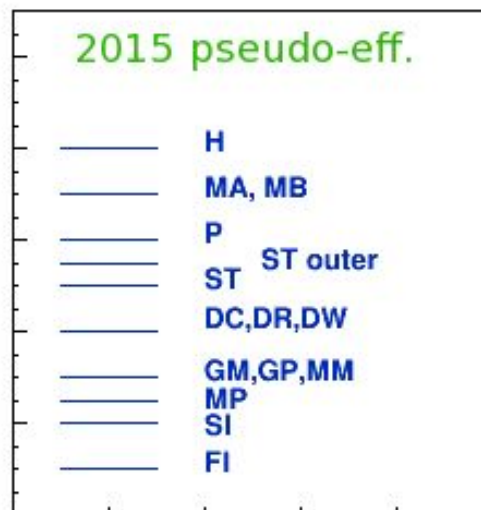
(overall χ^2 /ndf distribution in 2018)

2018 vs 2015 on {MT+LAST | OT+LAST | LAST2}

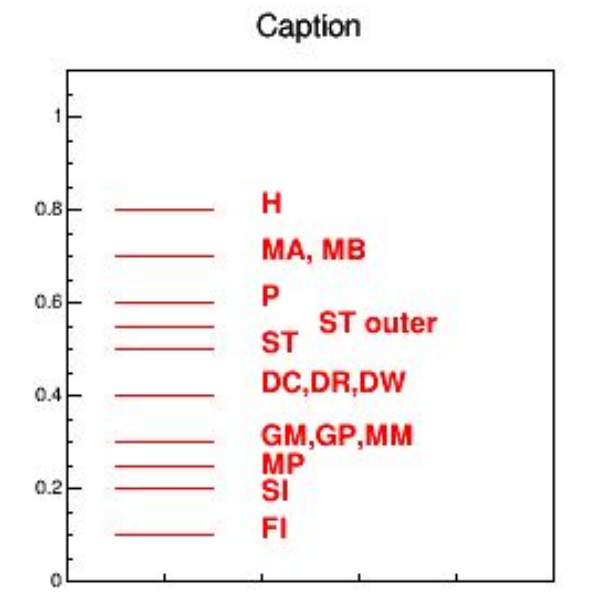
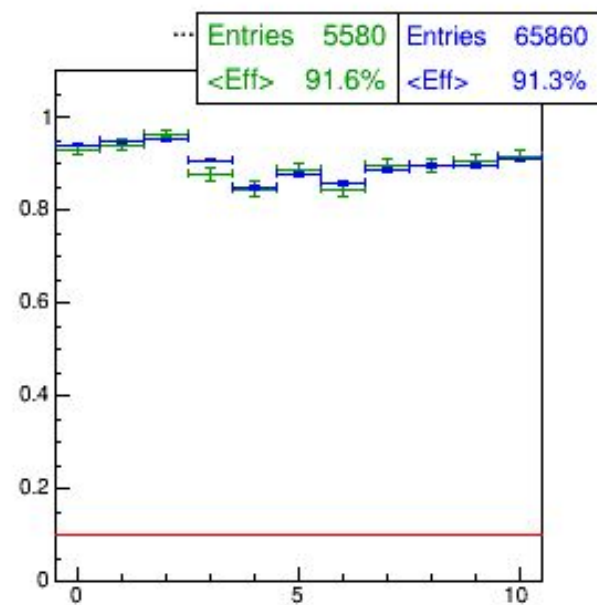
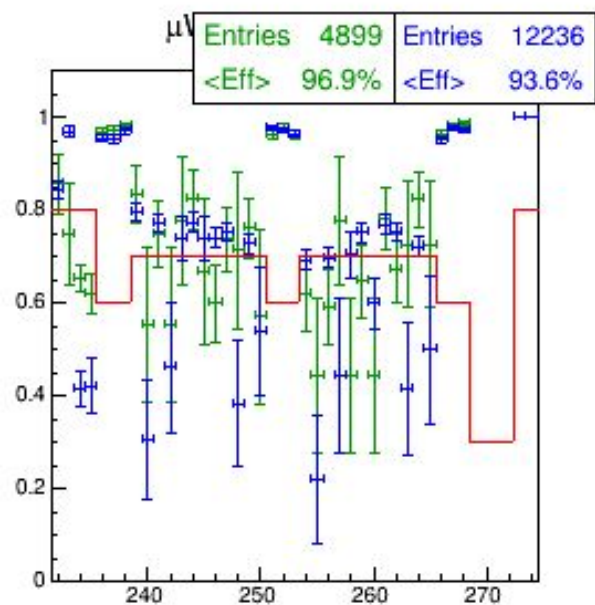
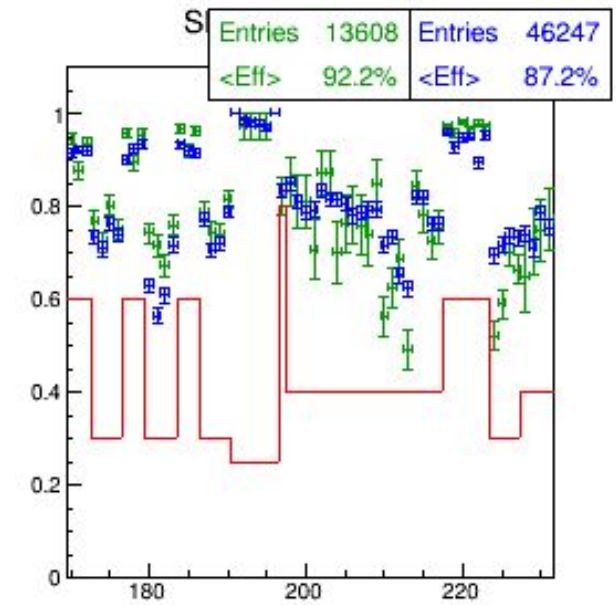
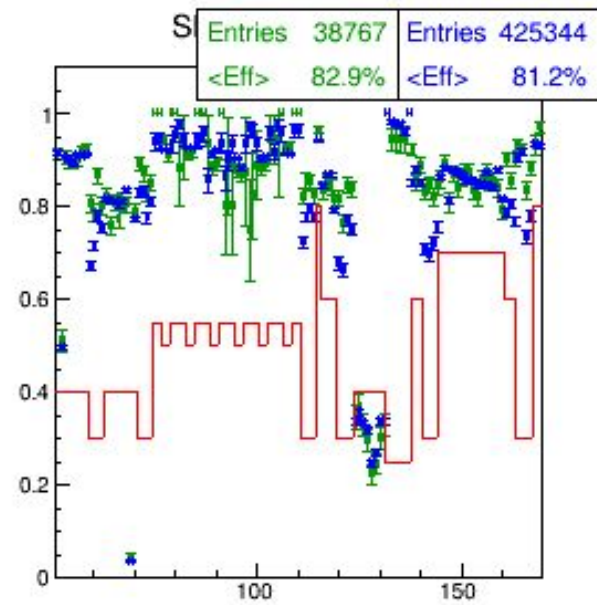
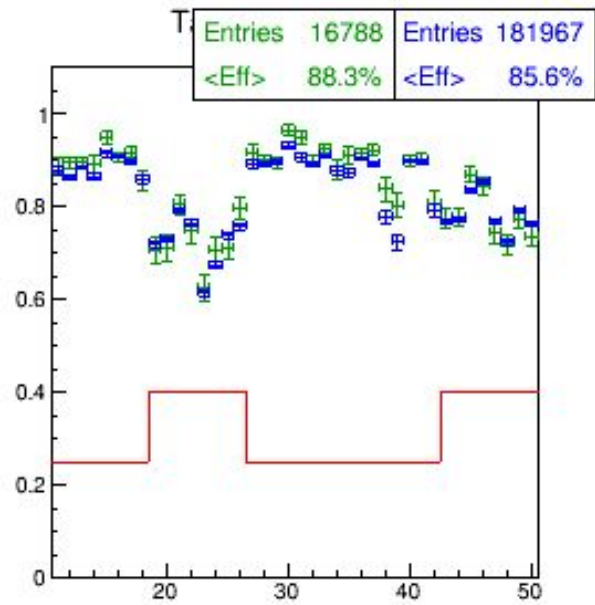


Caption

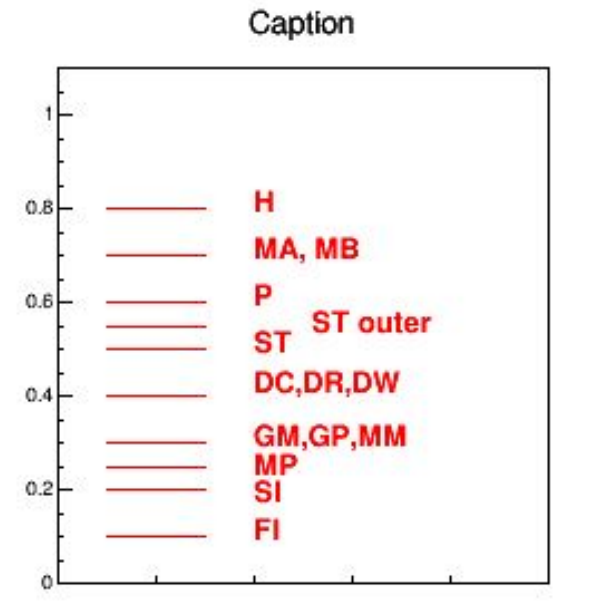
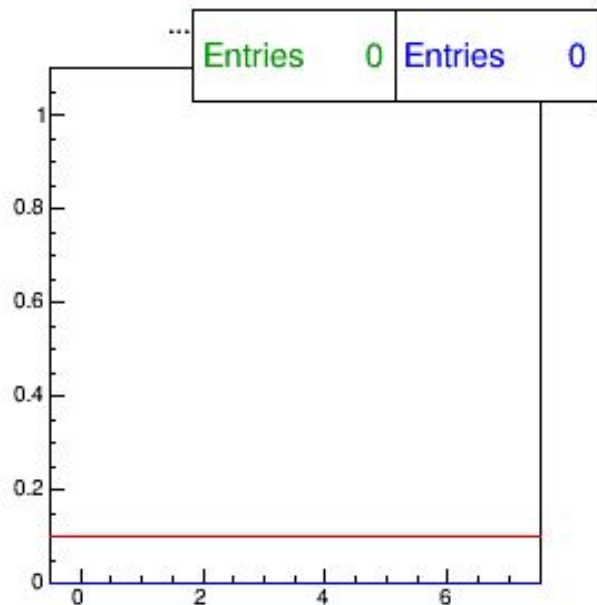
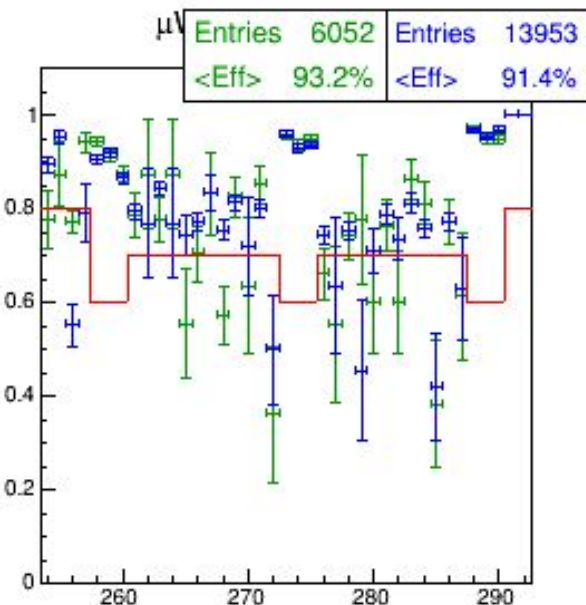
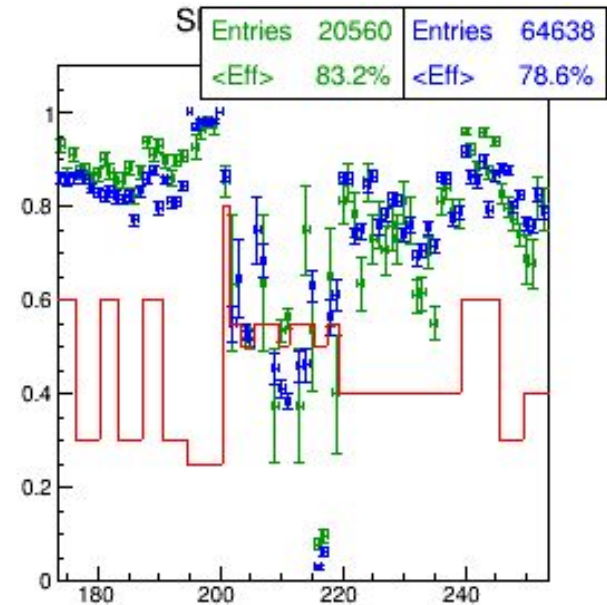
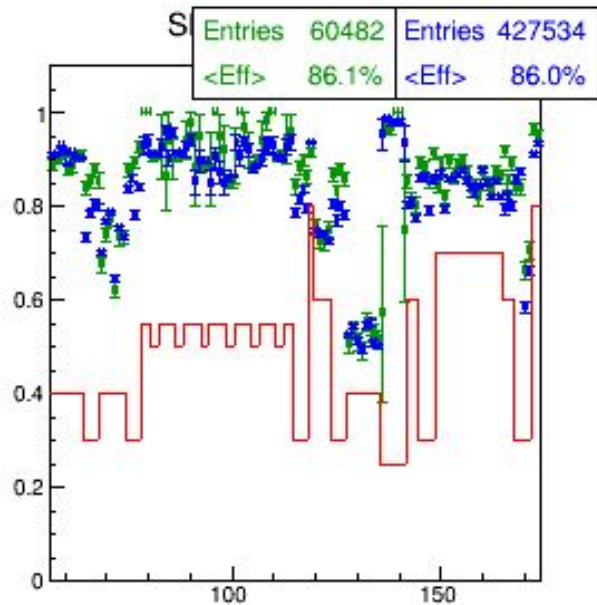
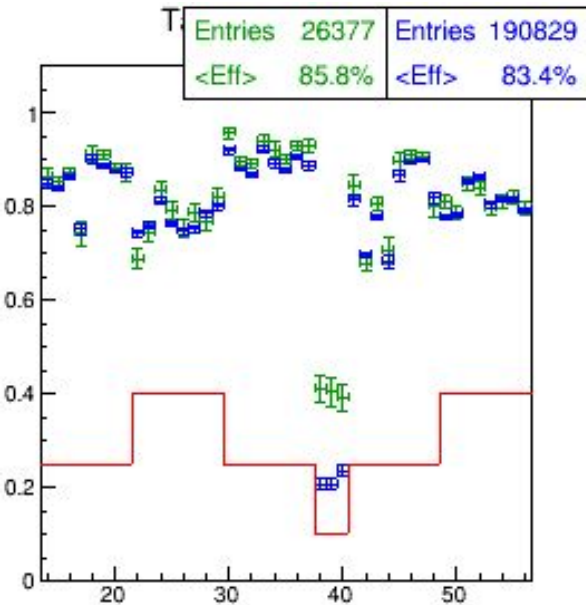
Caption



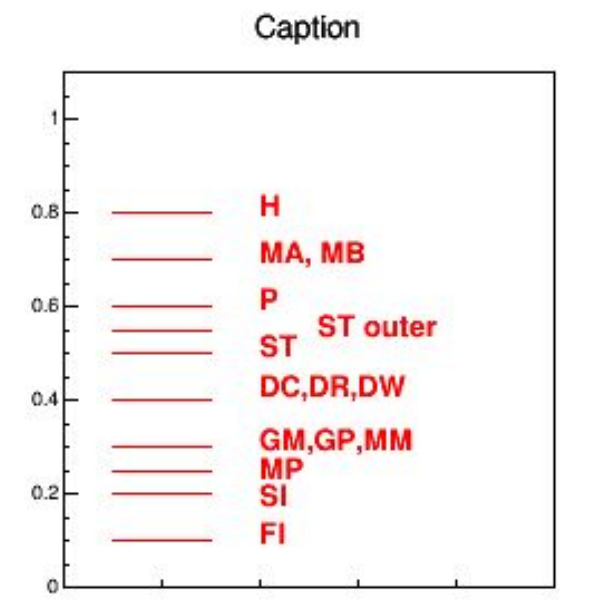
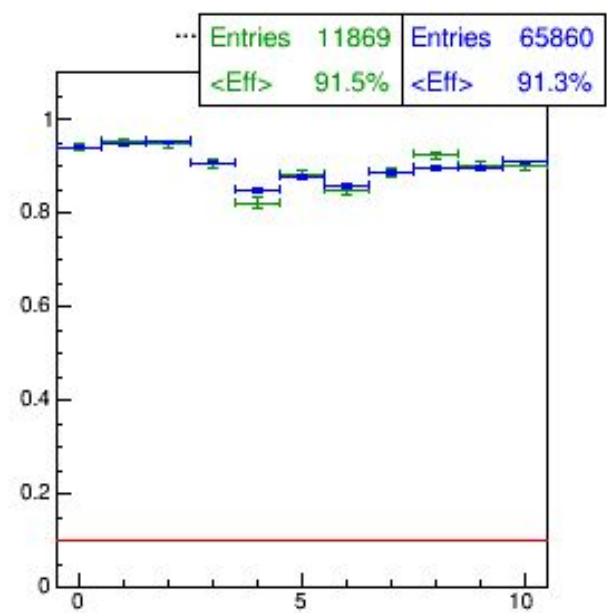
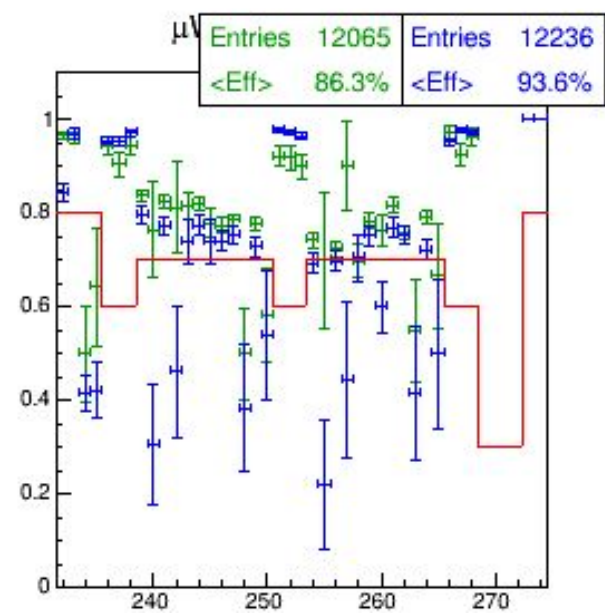
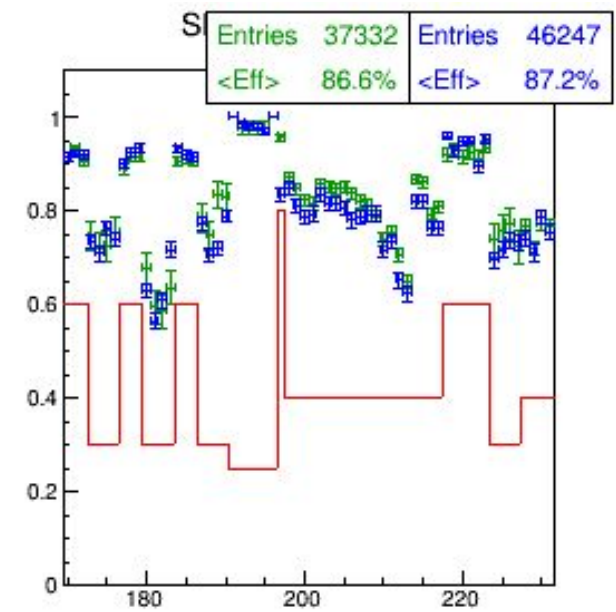
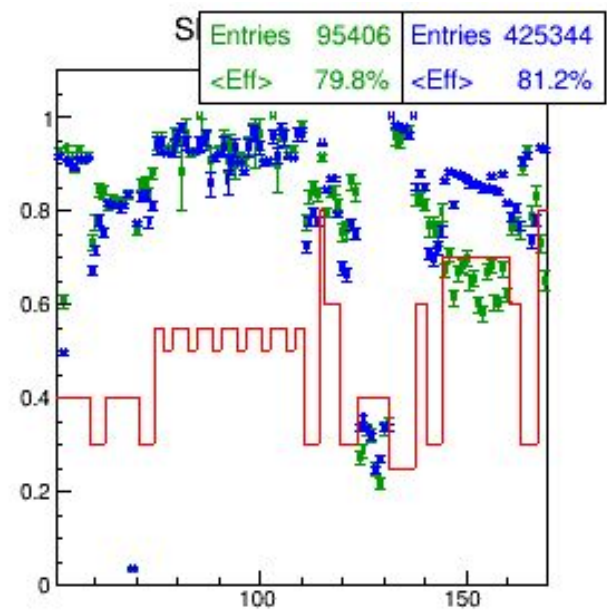
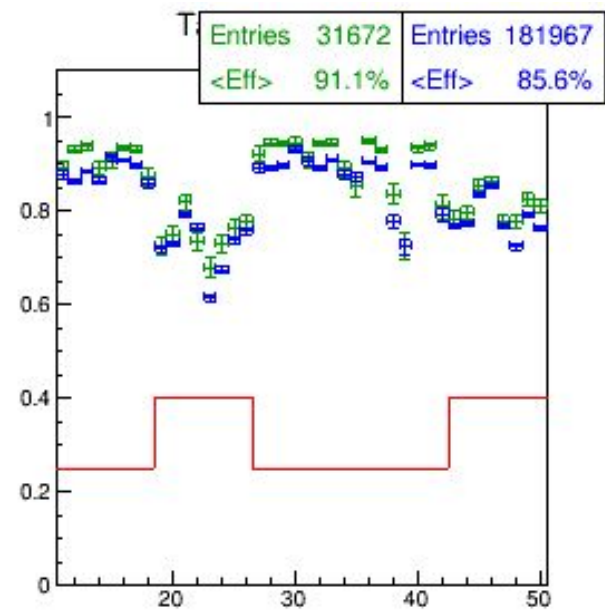
2018: MT+LAST in {MT+LAST | OT+LAST | LAST2}



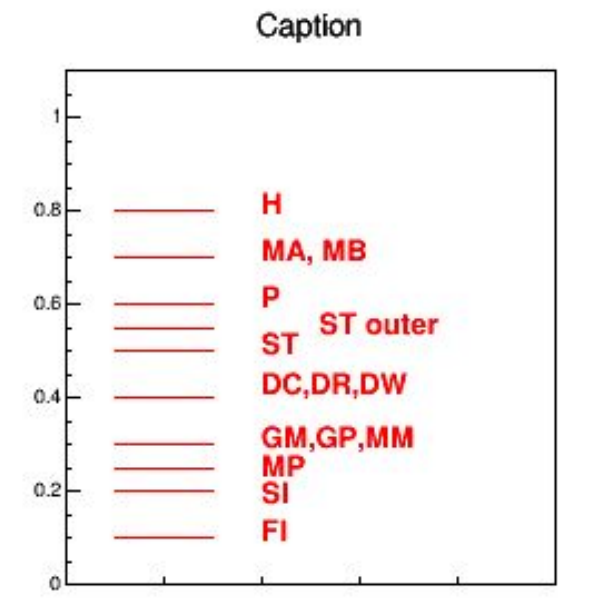
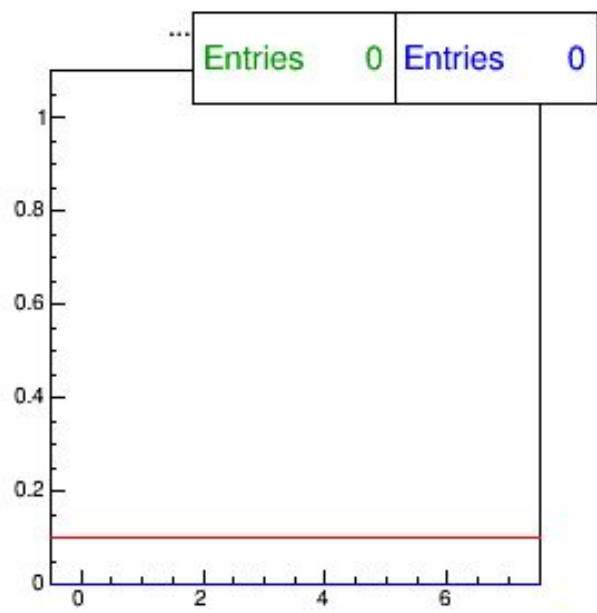
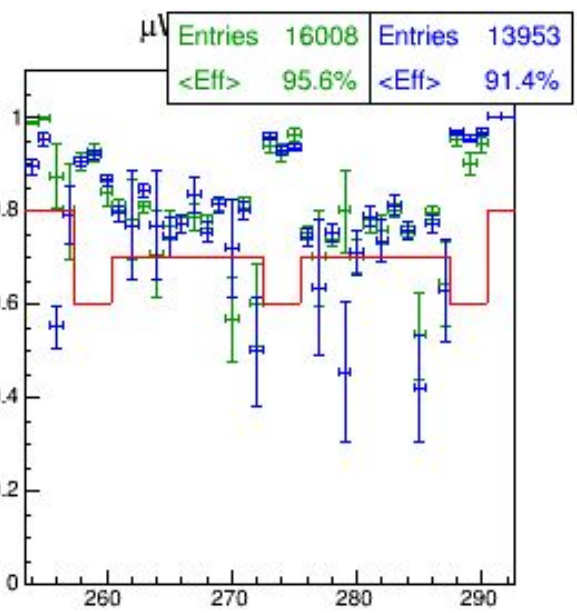
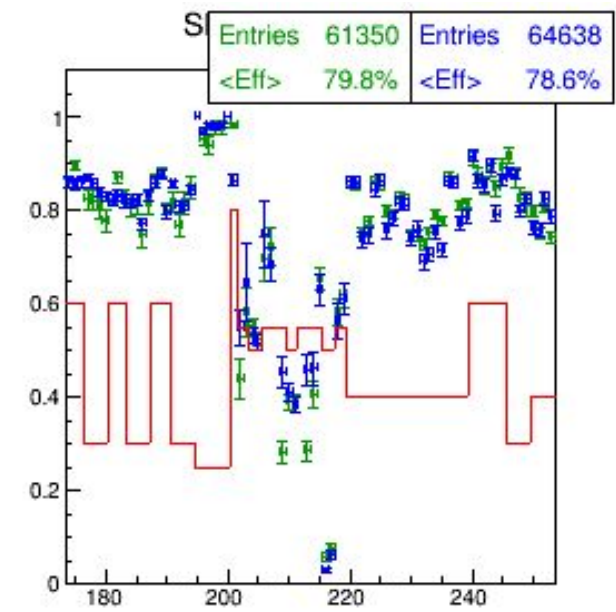
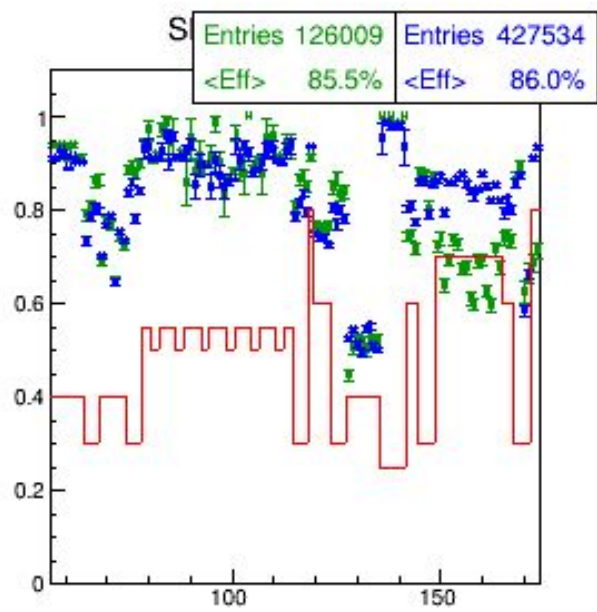
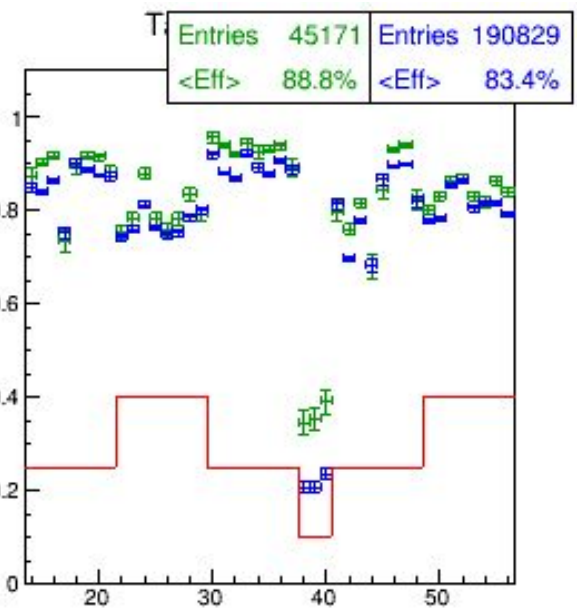
2015: MT+LAST in {MT+LAST | OT+LAST | LAST2}



2018: OT+LAST in {MT+LAST | OT+LAST | LAST2}

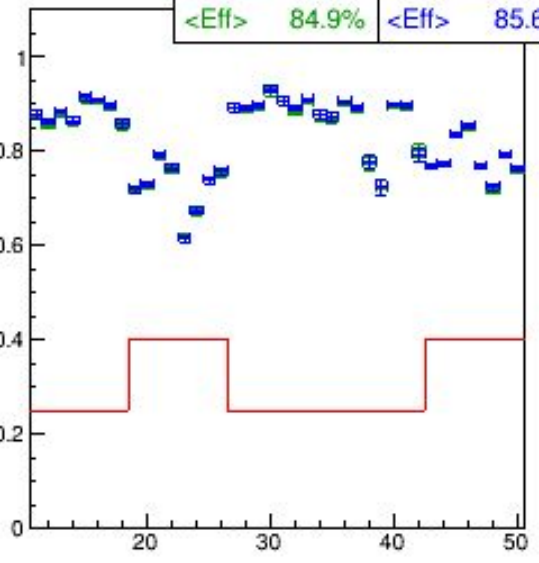


2015: OT+LAST in {MT+LAST | OT+LAST | LAST2}

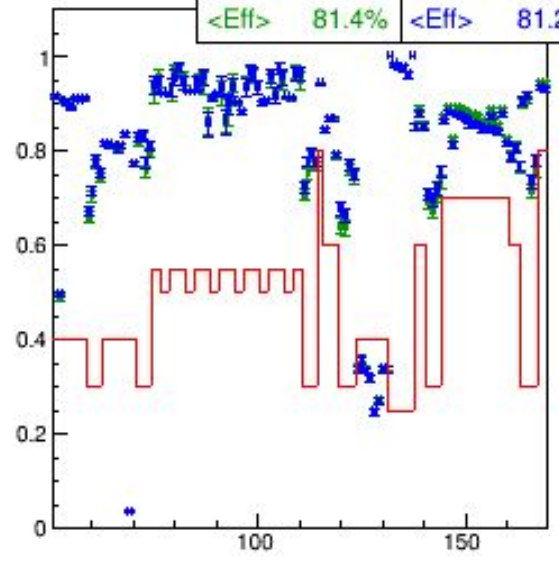


2018: LAST2 in {MT+LAST | OT+LAST | LAST2}

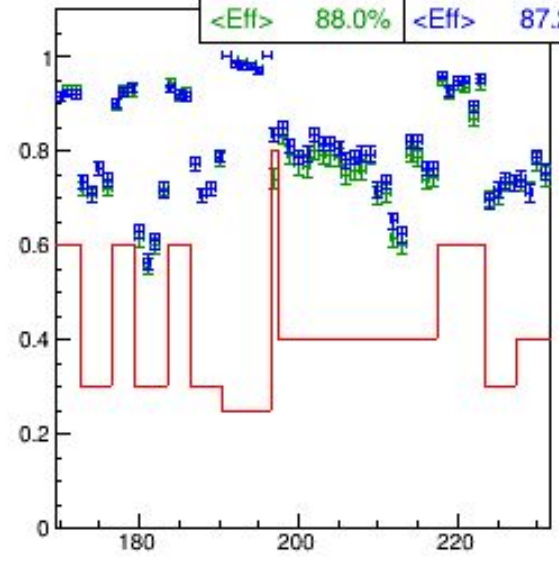
T
 Entries 183940 | Entries 181967
 <Eff> 84.9% | <Eff> 85.6%



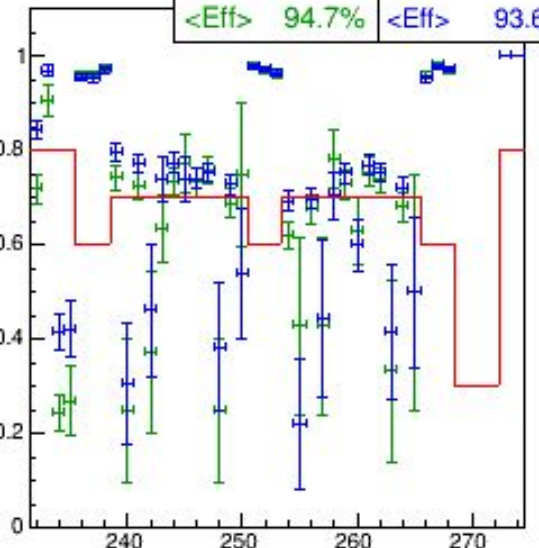
S
 Entries 418215 | Entries 425344
 <Eff> 81.4% | <Eff> 81.2%



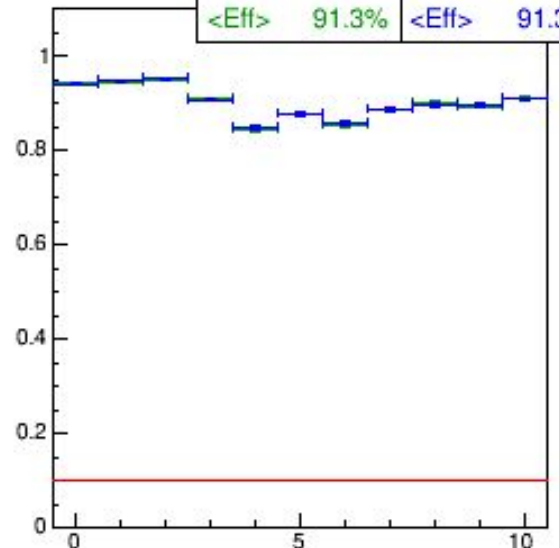
S
 Entries 36580 | Entries 46247
 <Eff> 88.0% | <Eff> 87.2%



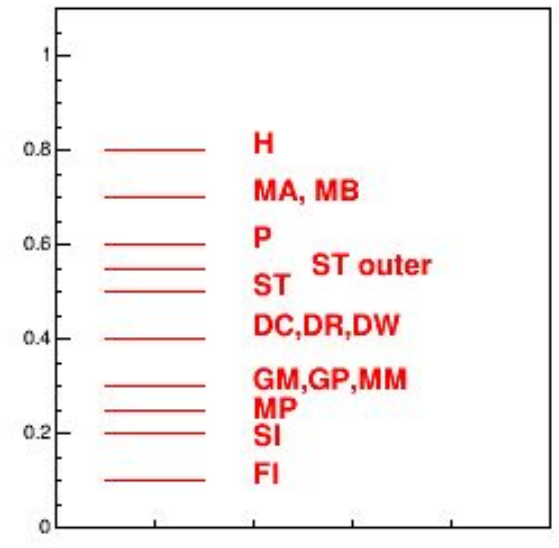
μV
 Entries 8665 | Entries 12236
 <Eff> 94.7% | <Eff> 93.6%



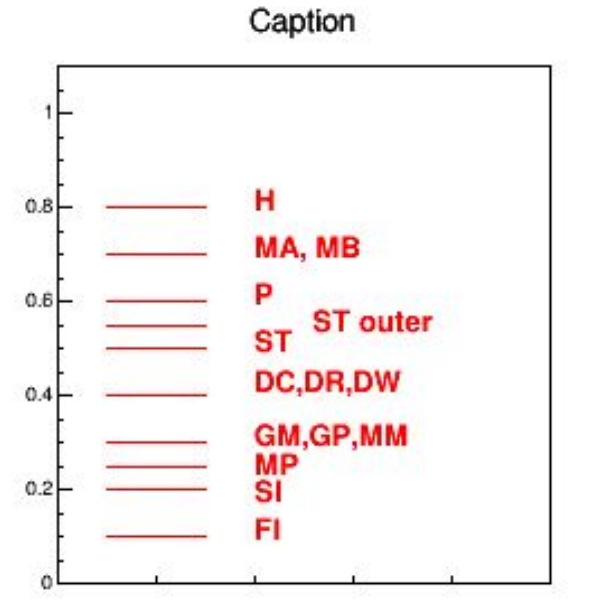
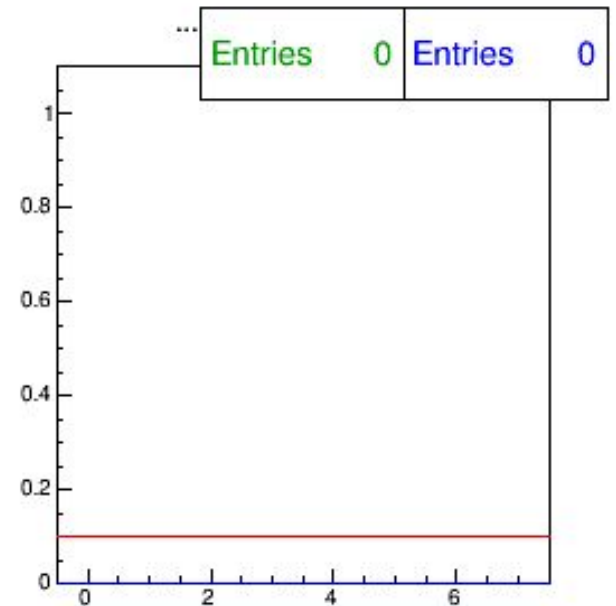
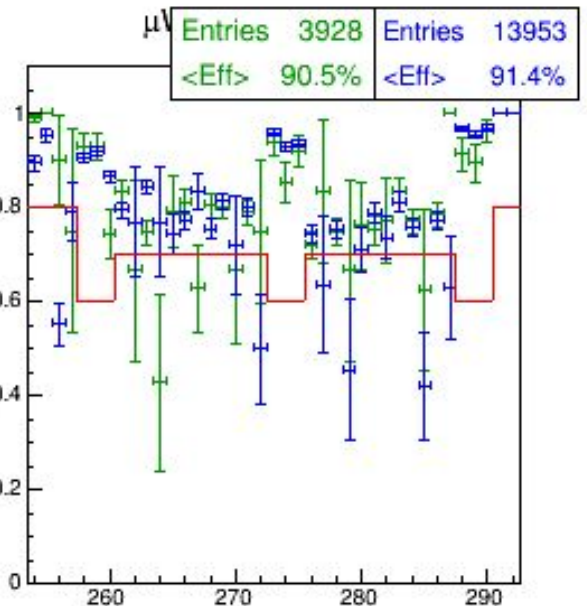
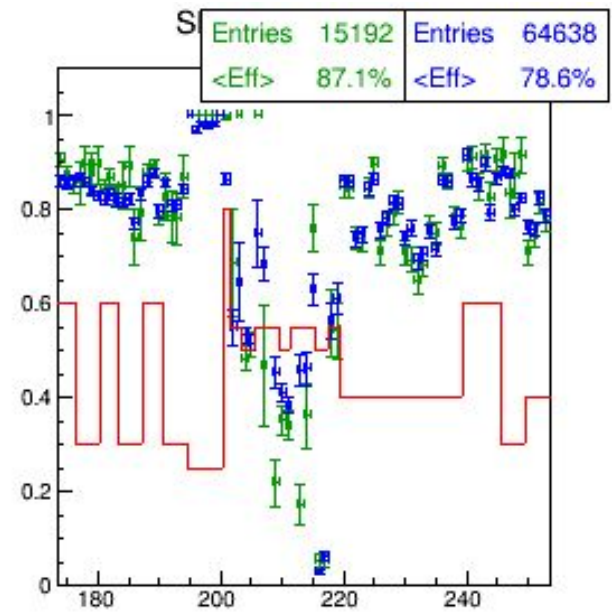
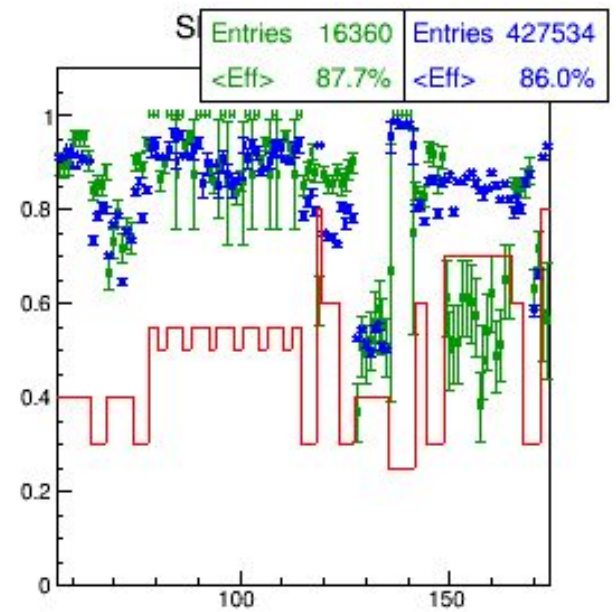
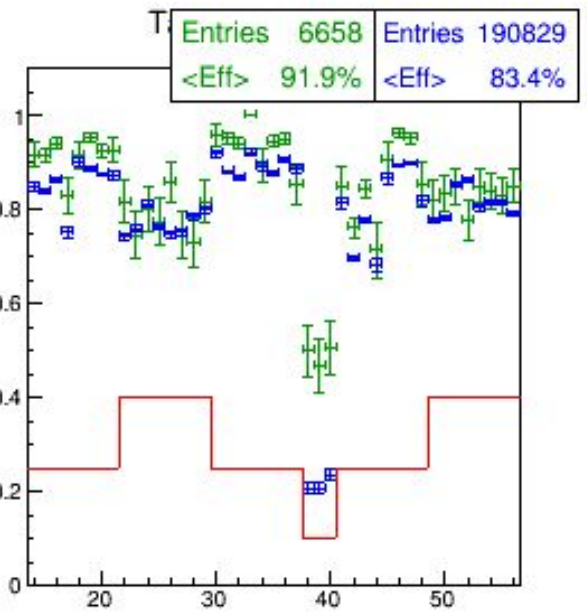
...
 Entries 65410 | Entries 65860
 <Eff> 91.3% | <Eff> 91.3%



Caption

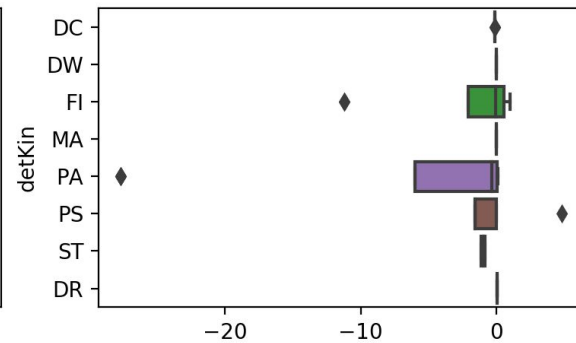
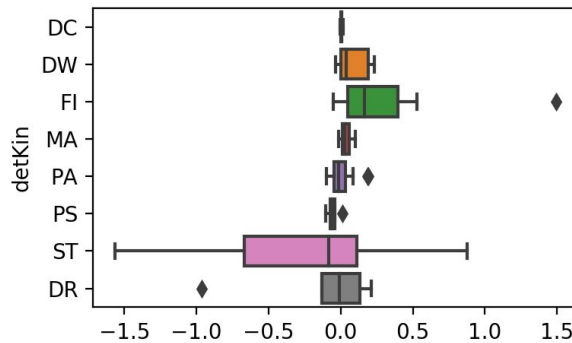
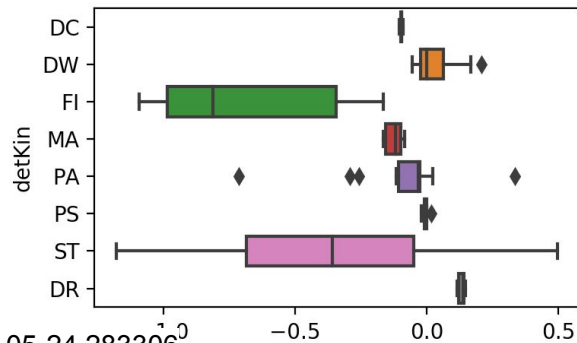


2015: LAST2 in {MT+LAST | OT+LAST | LAST2}

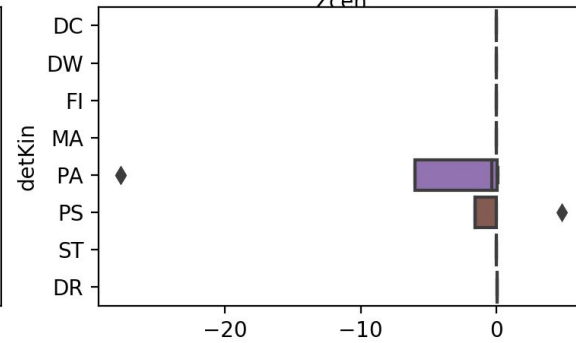
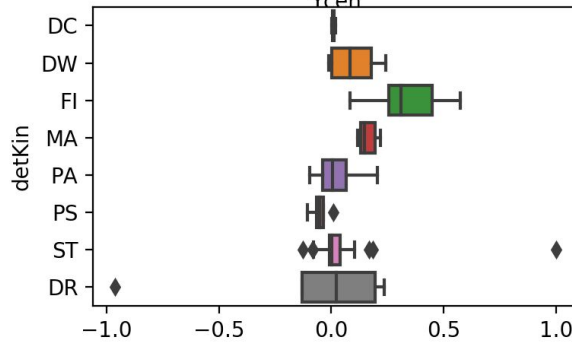
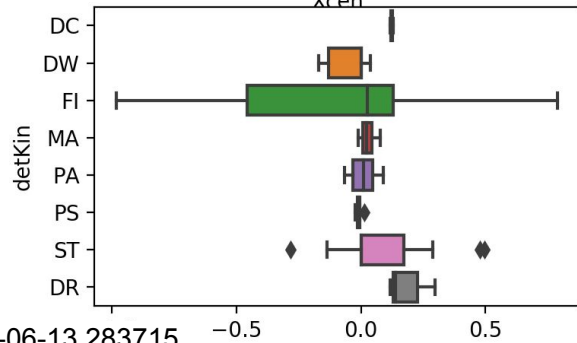


Offsets from survey by detector groups ($\frac{1}{3}$)

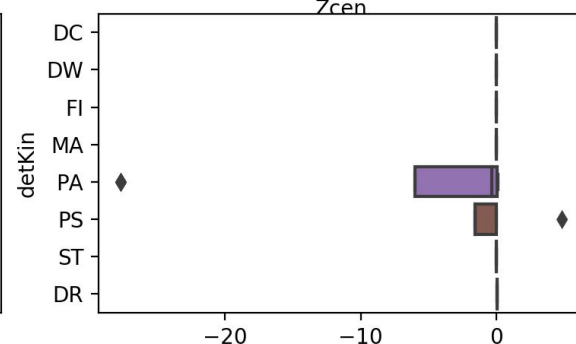
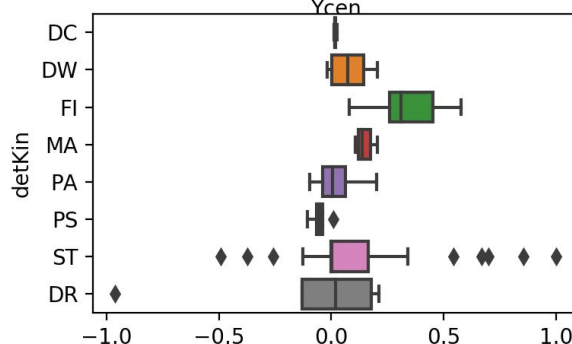
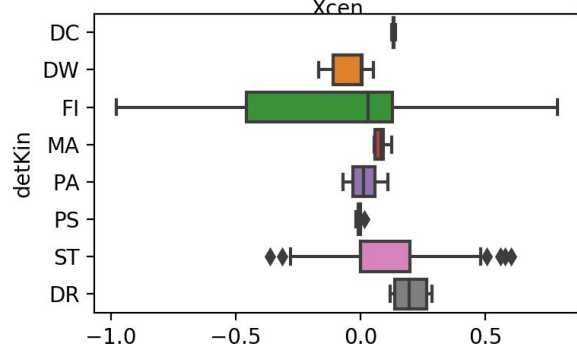
2018-05-17 283130



2018-05-24 283306

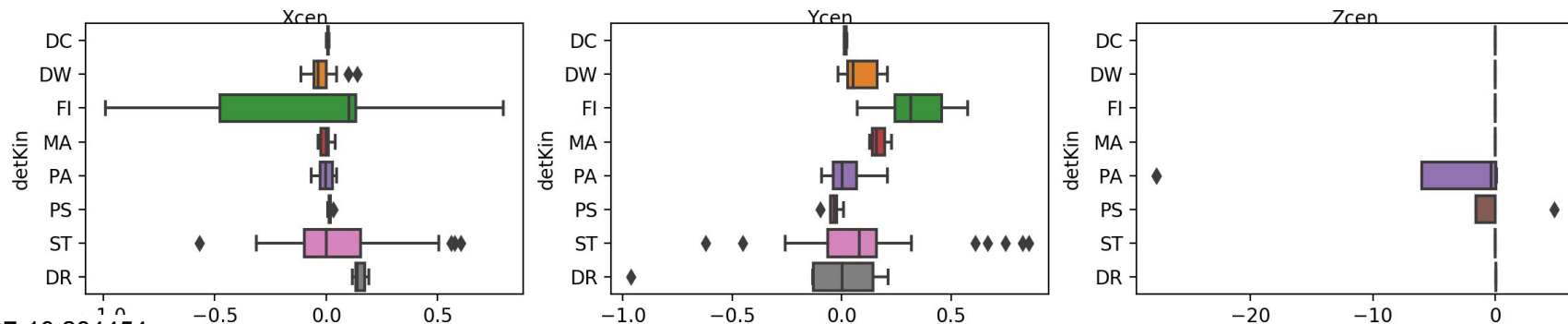


2018-06-13 283715

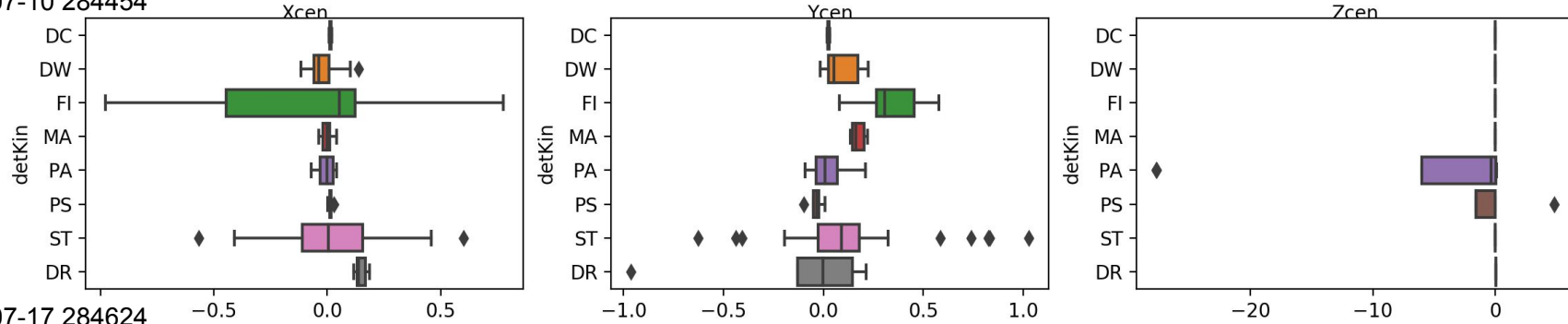


Offsets from survey by detector groups (2/3)

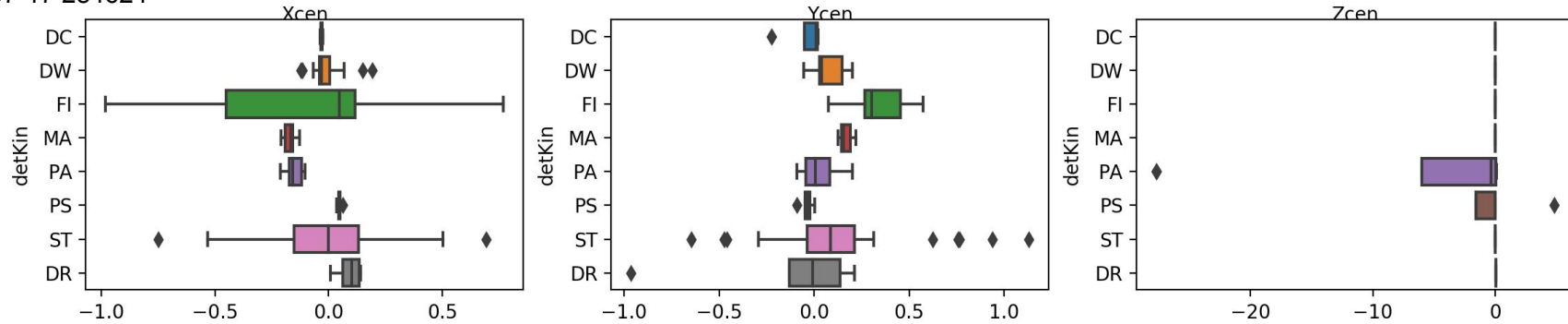
2018-06-29 284068



2018-07-10 284454

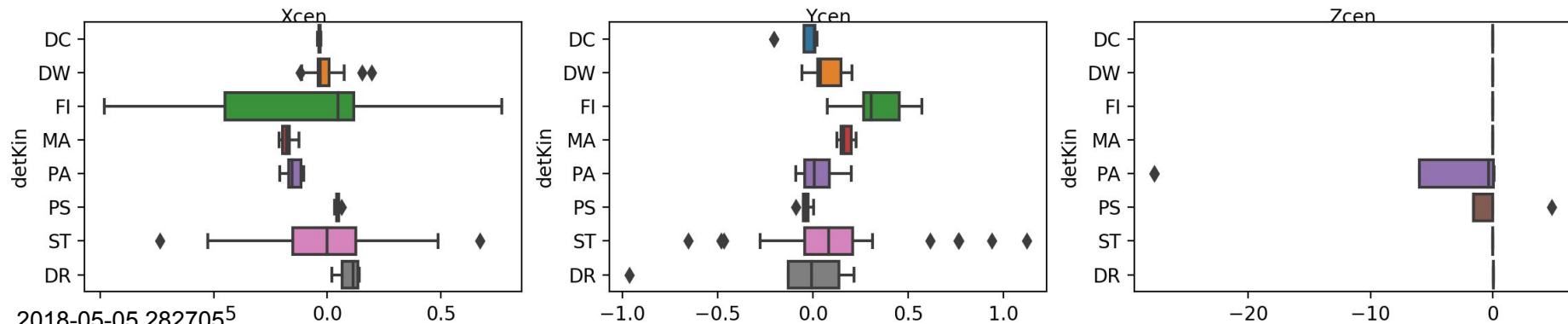


2018-07-17 284624

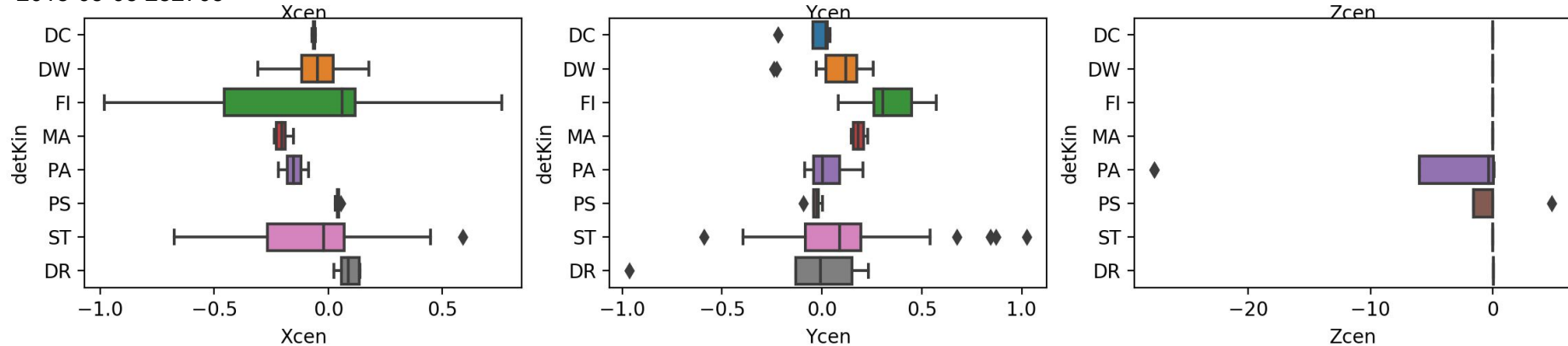


Offsets from survey by detector groups (3/3)

2018-08-01 284941

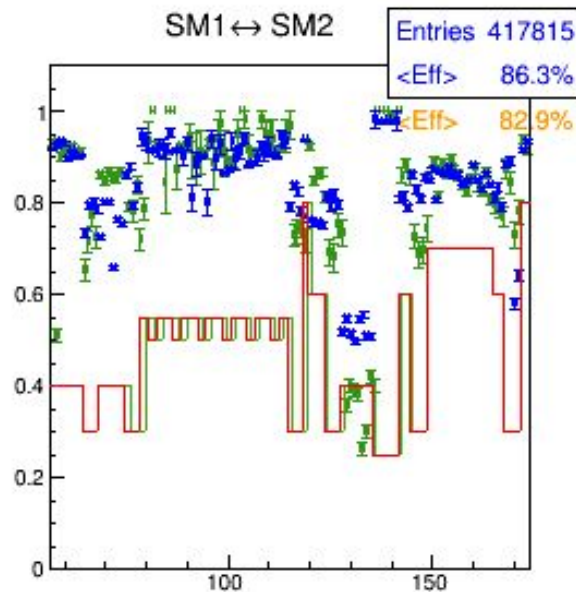
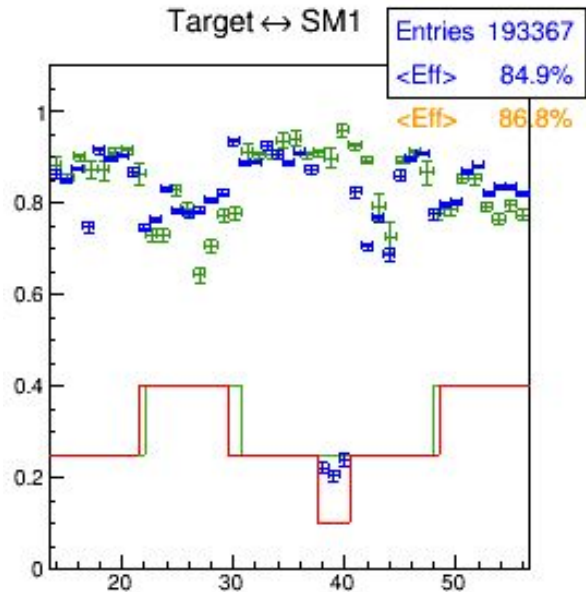


2018-05-05 282705⁵

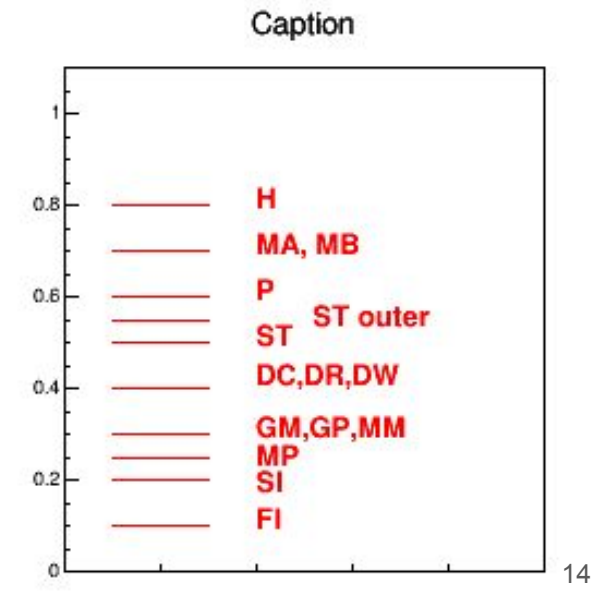
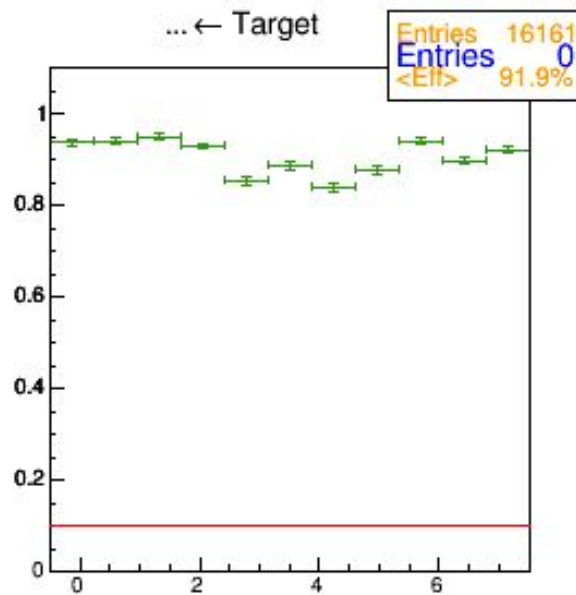
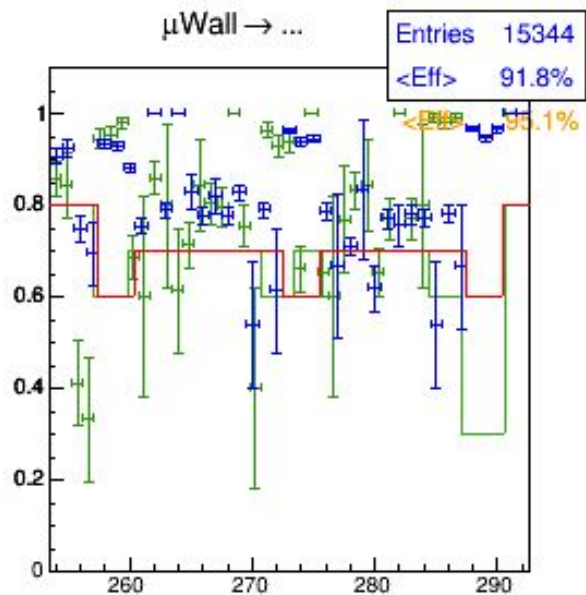
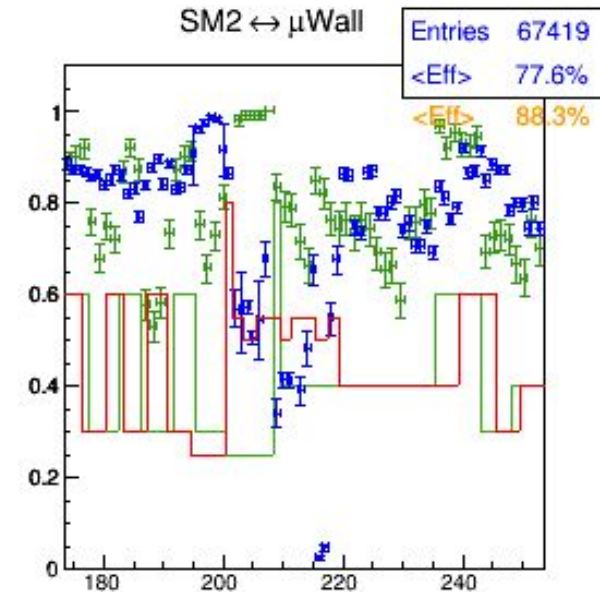


backup

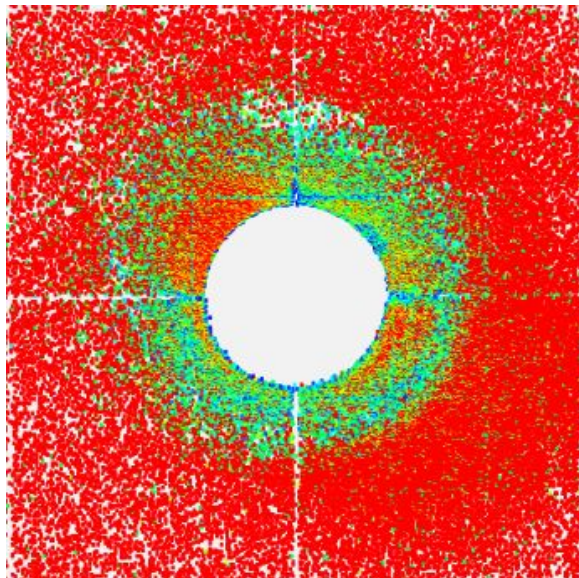
2018 / W10 / run #285182



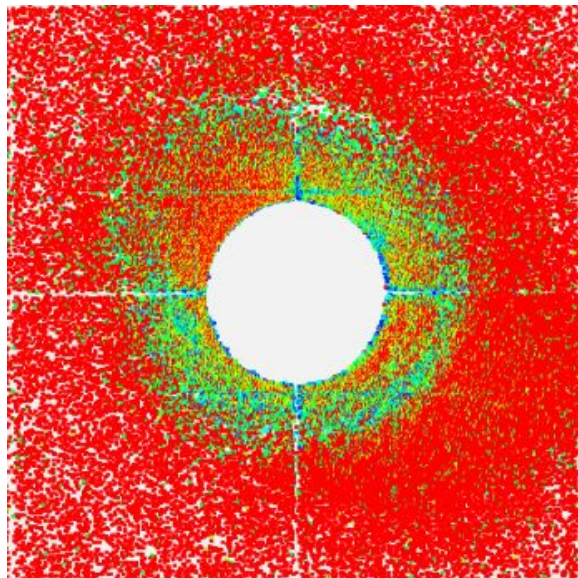
2015 / W10 / run #261554



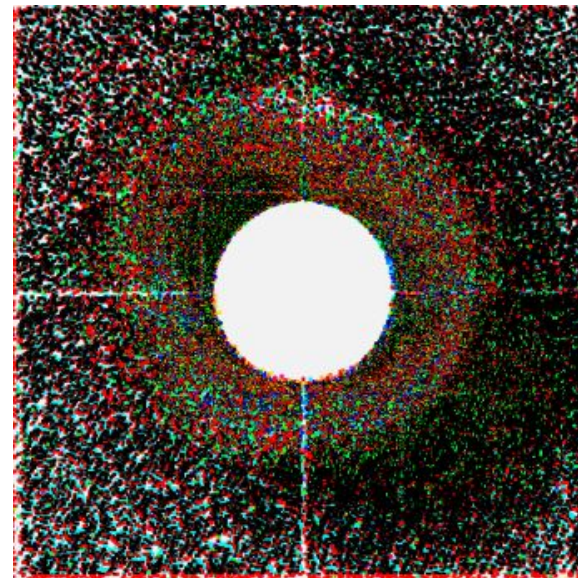
GM04U (rotated 90 CCW)



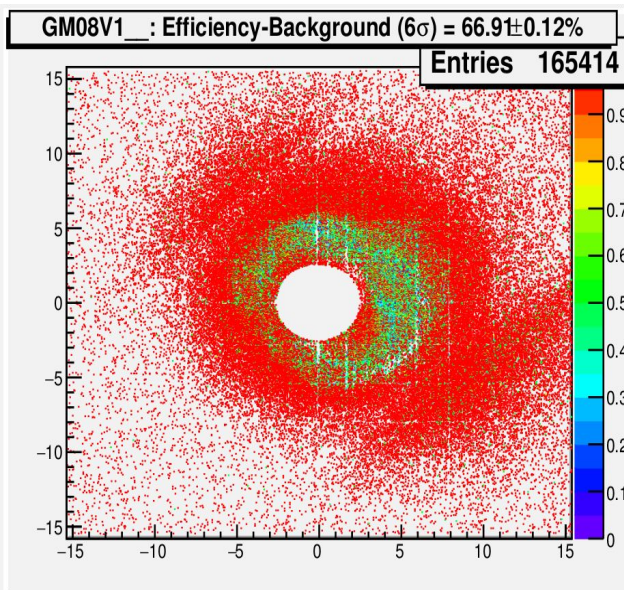
GM04V



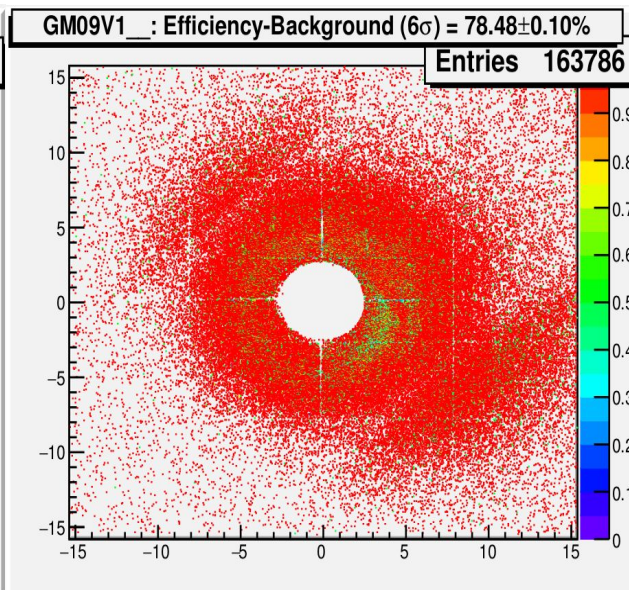
Difference



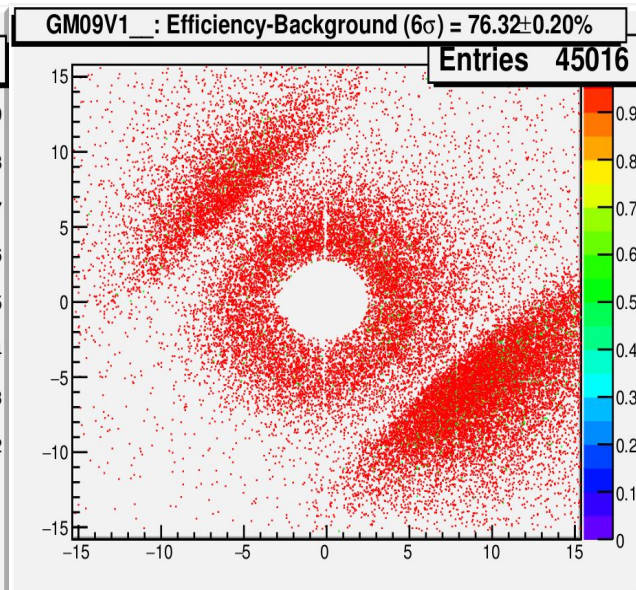
PP, 0x20203, no trigger



TP, 0x203, all triggers



TP, 0x203, MT|and CT



HME on alignment data vs. physics data

