

Day 152 – First Pass Alignment Update

- With the ~600K events I got from Long, I ran the alignment code and got precise estimates (see slide-2)
- Produced the “corrected” geometry and re-run the full BFC with updated geometry
 - about 30K event so far

FIRST PASS ESTIMATED Corrections (angles [only] need a minus sign)

SECTOR 4

dX mkm	dY mkm	dZ mkm	alpha mrad	beta mrad	gamma mrad	Comment
-100	300	2900	0	0.	-0	Average for PXL sector 4 Ladder 1
-20	150	2970	0	0.	0	Average for PXL sector 4 Ladder 2
-100	350	2700	0	0.	-0	Average for PXL sector 4 Ladder 3
-200	+400	3000	0	0	0	Average for PXL Ladder 4

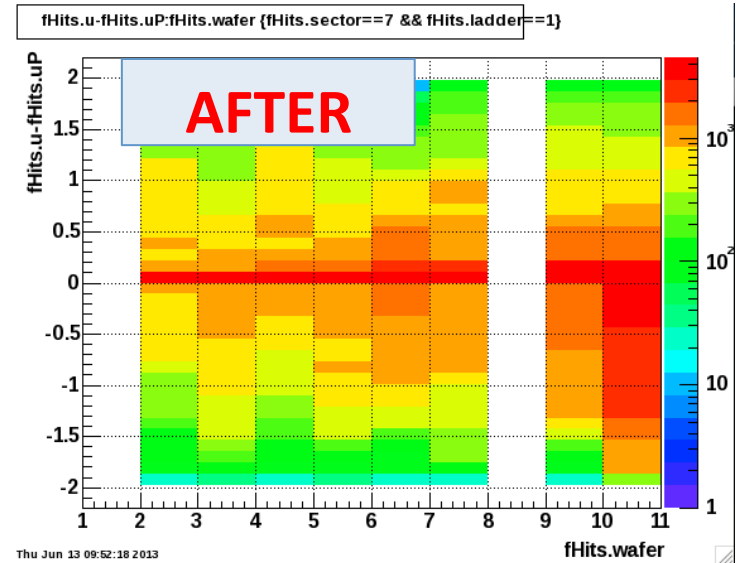
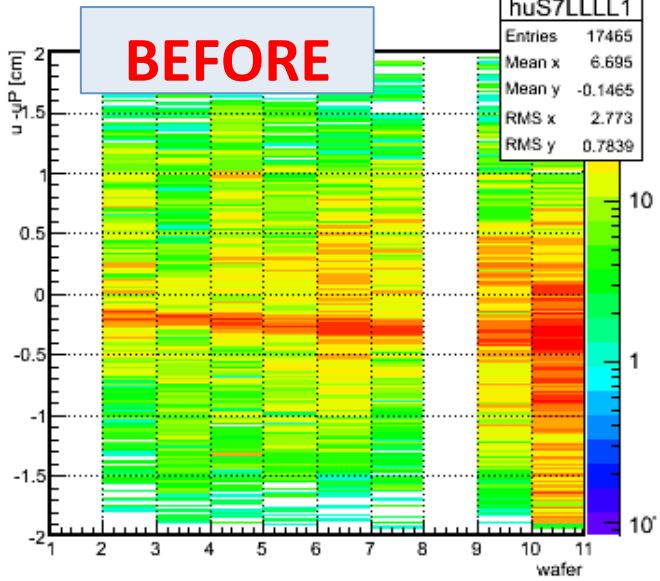
SECTOR 7

1500	2100	3000	-10	10	80	Ladder 1
2350	1150	2900	-15	10	80	Average for PXL sector 7 Ladder 2
2330	1800	2440	-15	20	80	Average for PXL Ladder 3
2230	2710	2570	-10.	20	80	Average for PXL Ladder 4

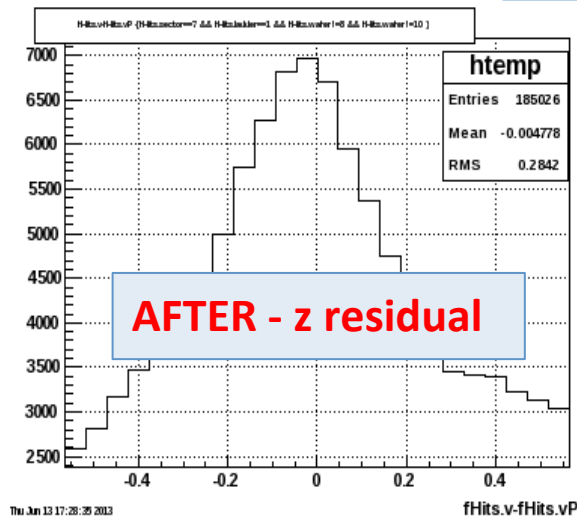
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Sector 7 ladder 1 (inner)

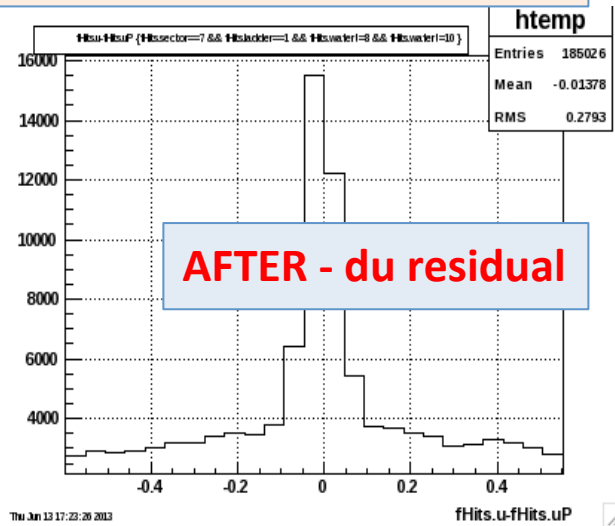
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Most offset and slope gone!



AFTER - z residual

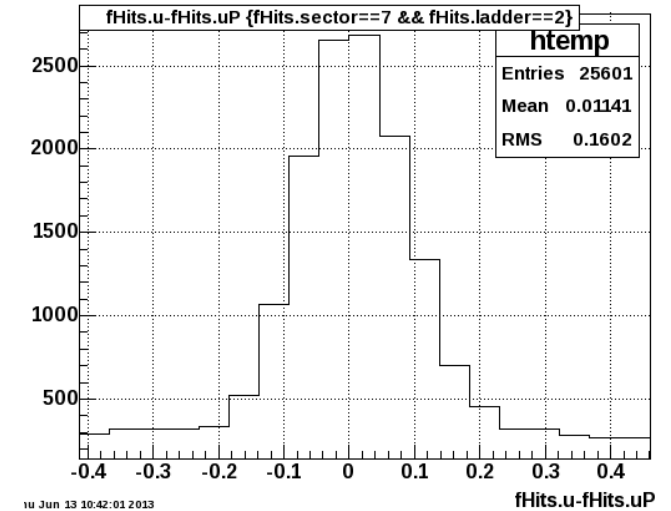
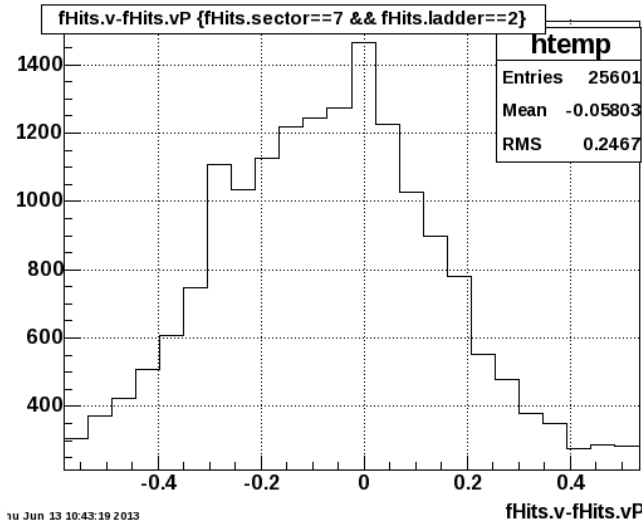
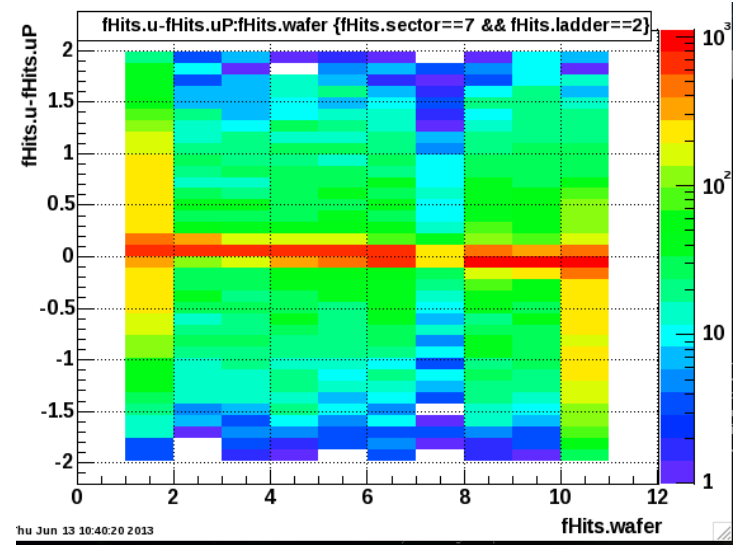
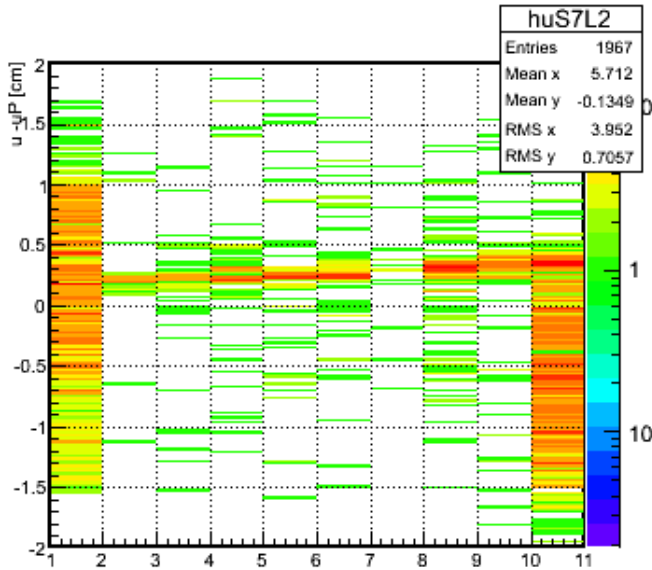


AFTER - du residual

dX mkm	dY mkm	dZ mkm	alpha mrad	beta mrad	gamma mrad	
1500	2100	3000	-10	10	80	

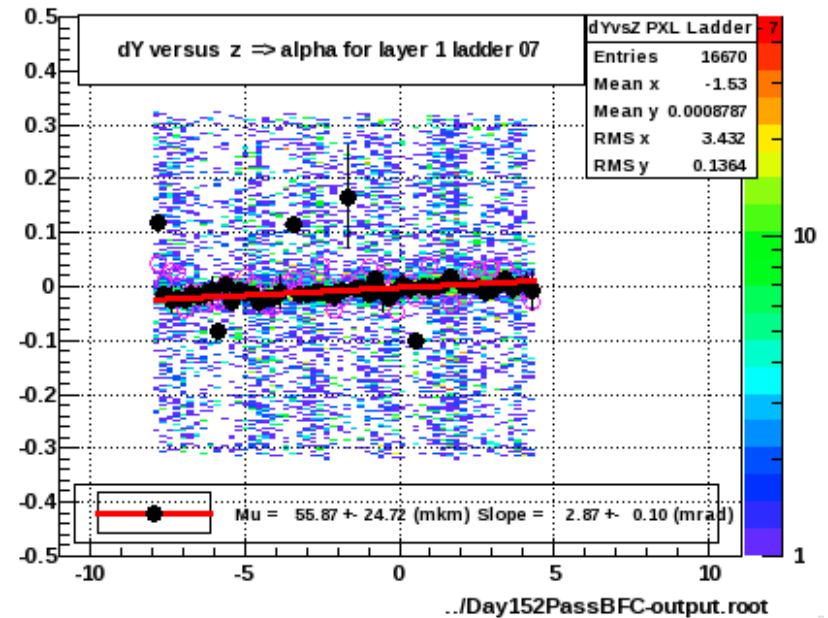
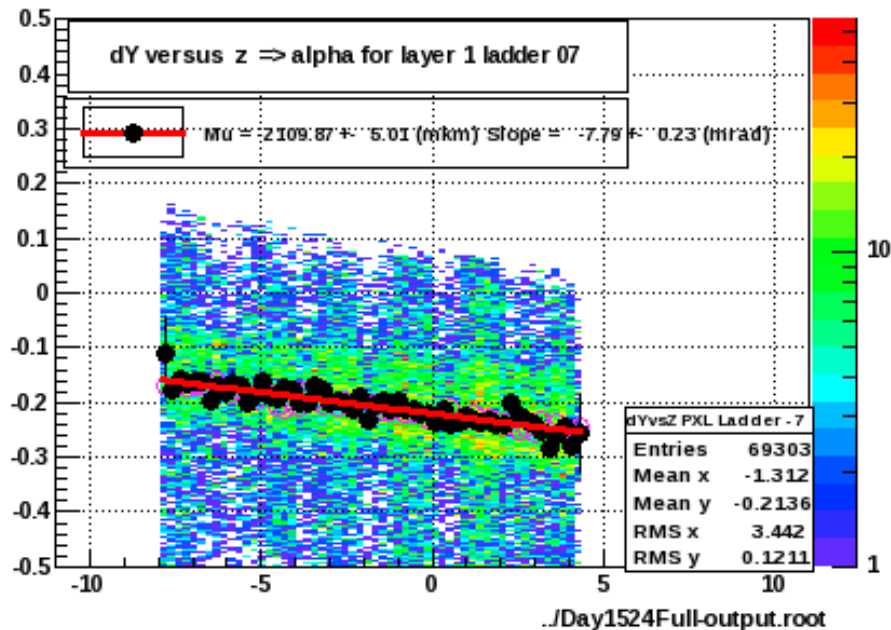
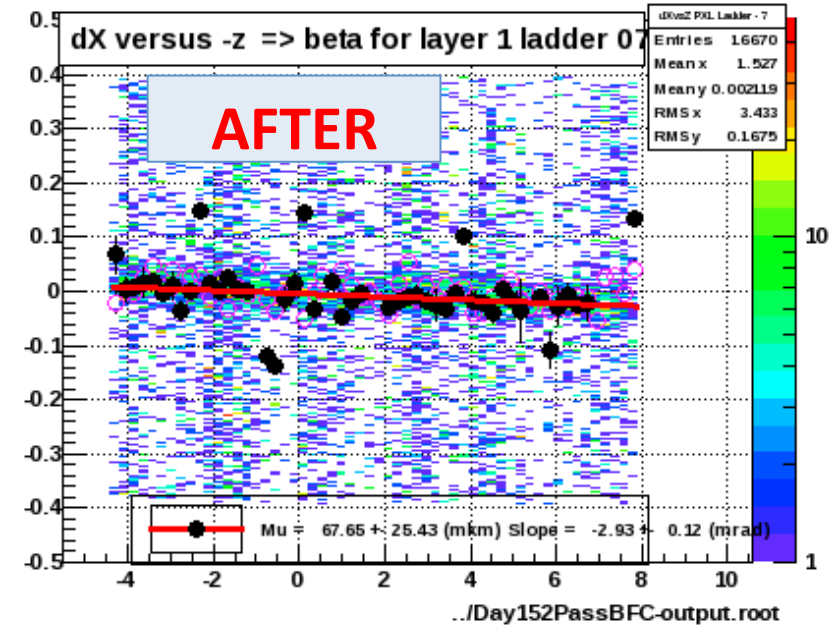
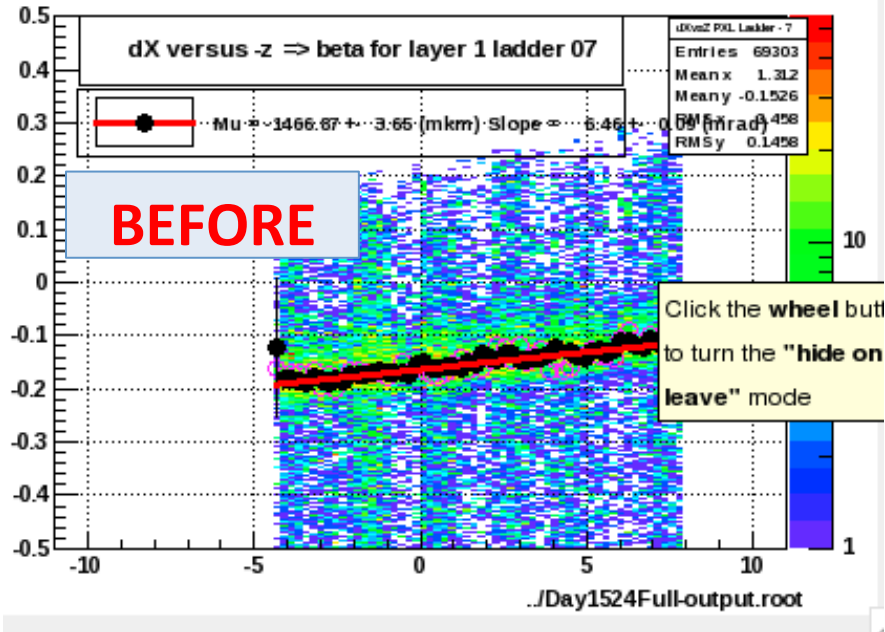
Sector 7 ladder 2 (outer)

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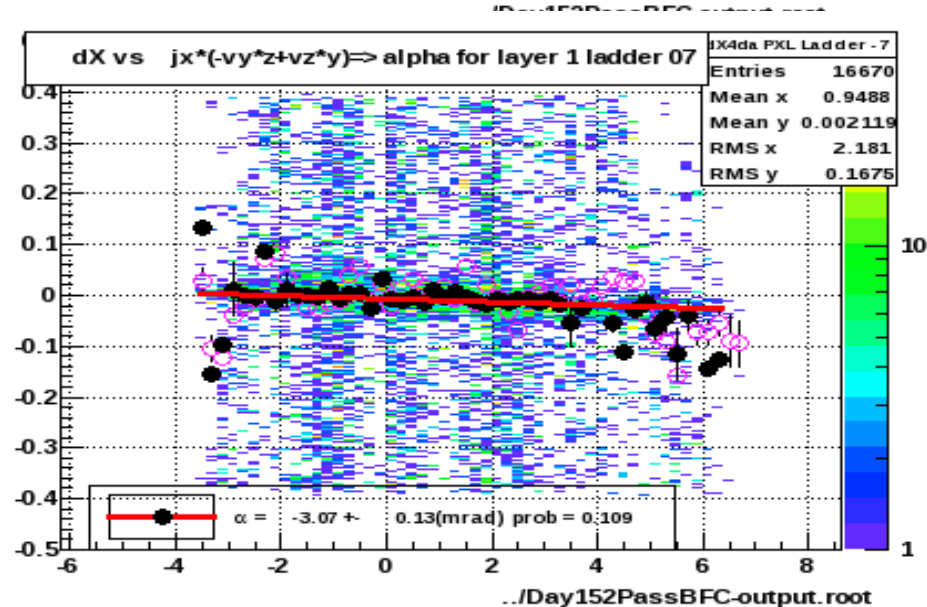
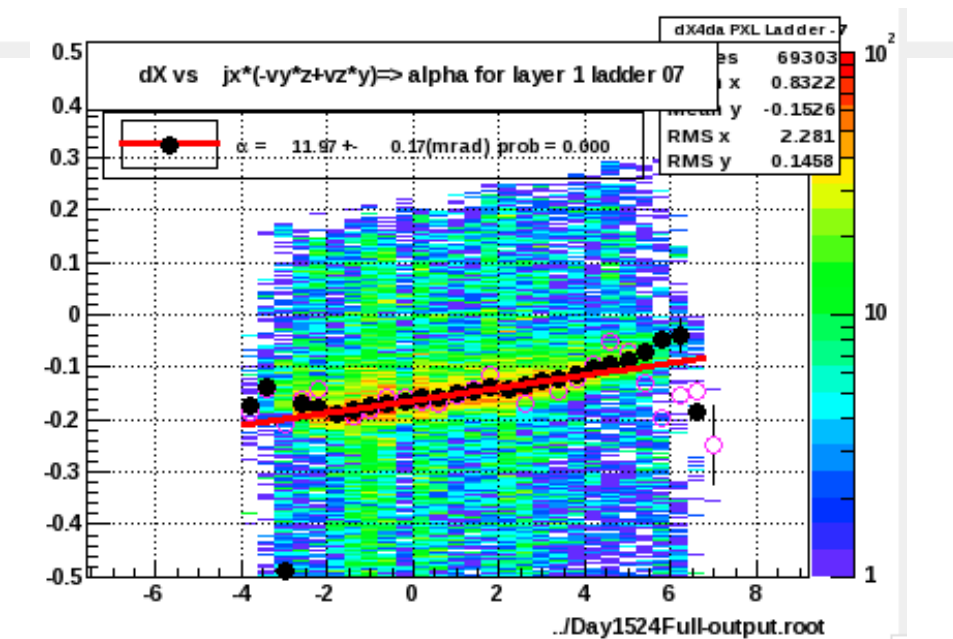
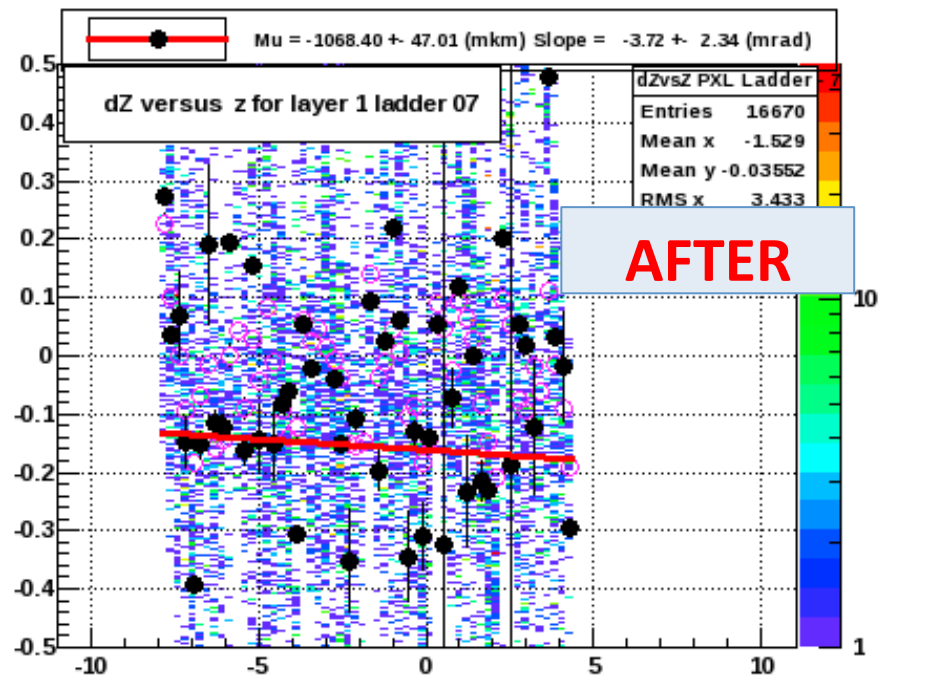
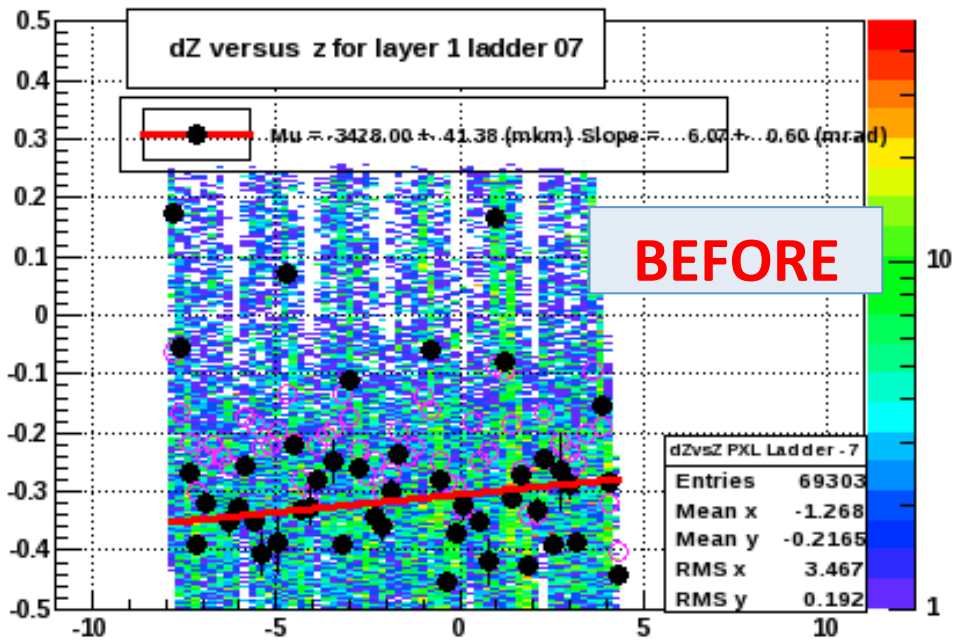


dX mkm	dY mkm	dZ mkm	alpha mrad	beta mrad	gamma mrad	
2350	1150	2900	-15	10	80	

Sector 1 ladder 1 (inner) GLOBAL after BFC rerun (30K)



Sector 1 ladder 1 (inner) GLOBAL after BFC rerun



Sector 1 ladder 1 (inner) GLOBAL after BFC rerun

