



## Status of alignment

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**SINS, Warsaw**

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# Outline

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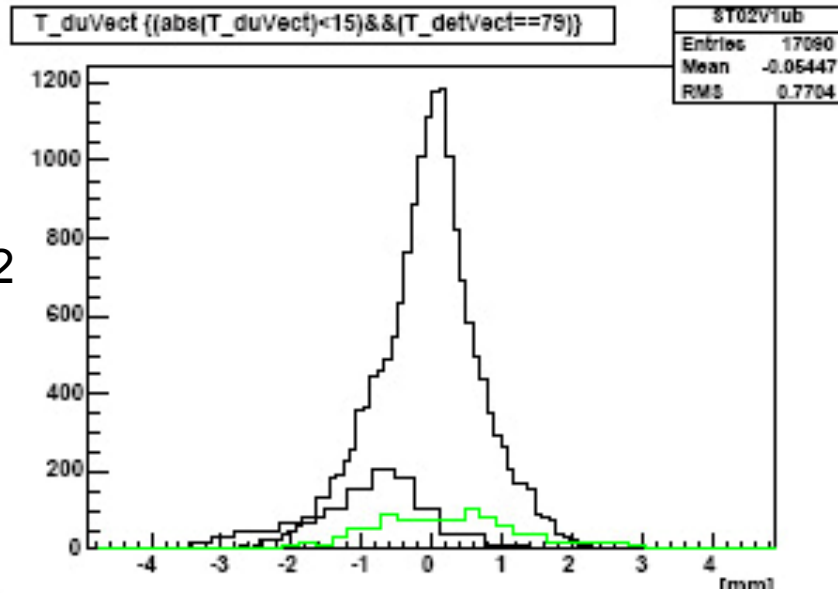
1. Finished periods
2. What's new
3. Remaining problems

# Status of alignment

Period	Status	TODO	Production status
W32	DONE	REDO	
W33	-	ALL	
W34	DONE	REDO	
W35	-	ALL	
W36	DONE	REDO	
W37	DONE	-	next
W40	DONE	MA pitch, Z, Out. ST, ST sig. propag.	Produced
W41	DONE	Outer ST, ST sig. propag.	Produced
W42	DONE	-	Produced?
W43	DONE	ST sig. propag.	Produced
W44	DONE	Outer ST, ST sig. propag.	Produced
W45	DONE	-	Produced
W46	DONE	Z-check, Outer ST, ST sig. Propag.	Produced

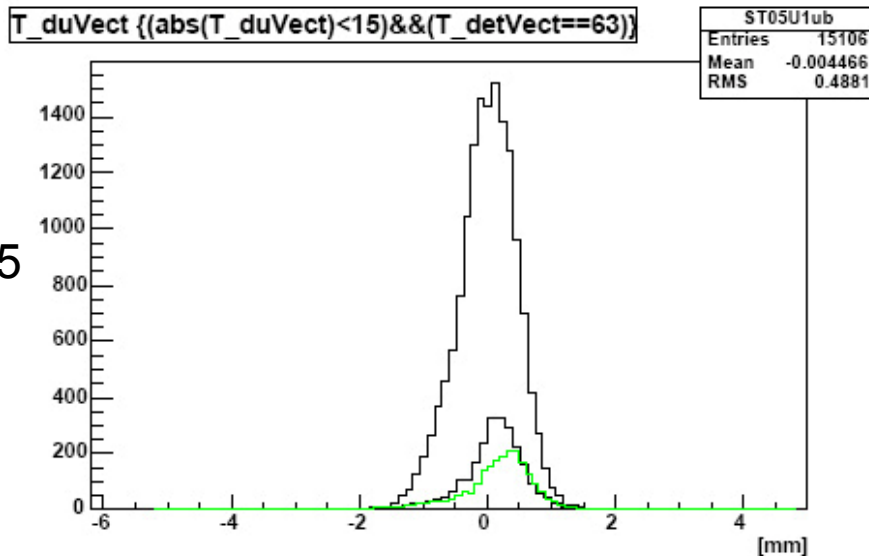
# Outer Straws

ST02



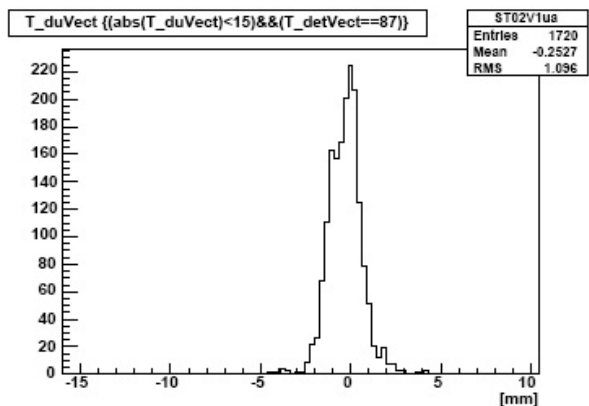
10mm STs  
not aligned  
so far.

ST05

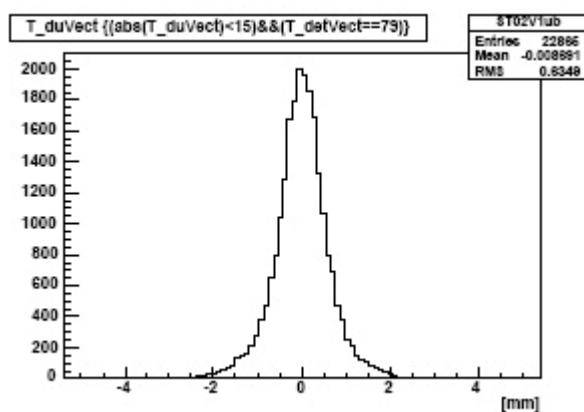


# Outer ST alignment

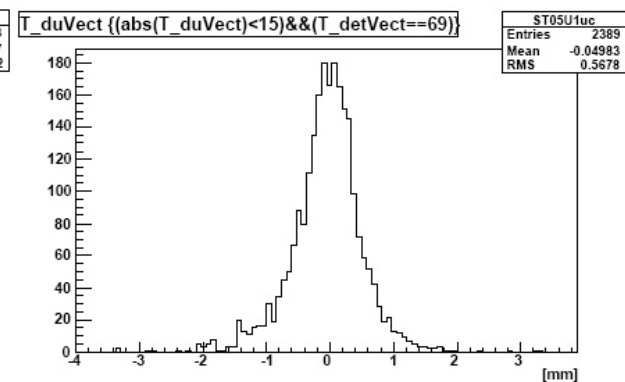
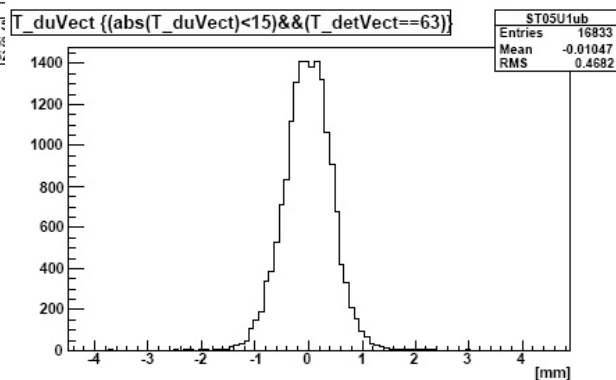
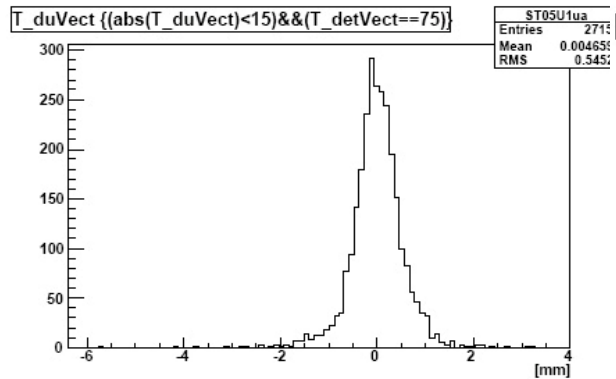
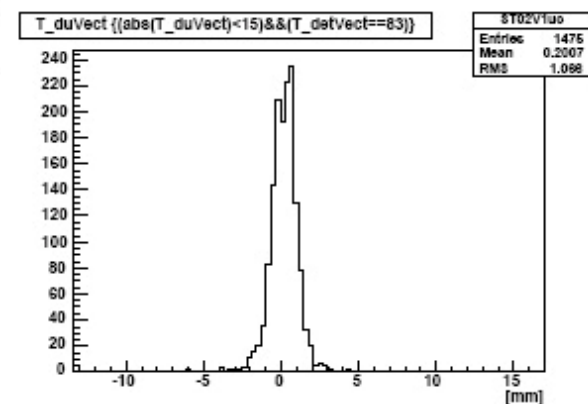
a



b

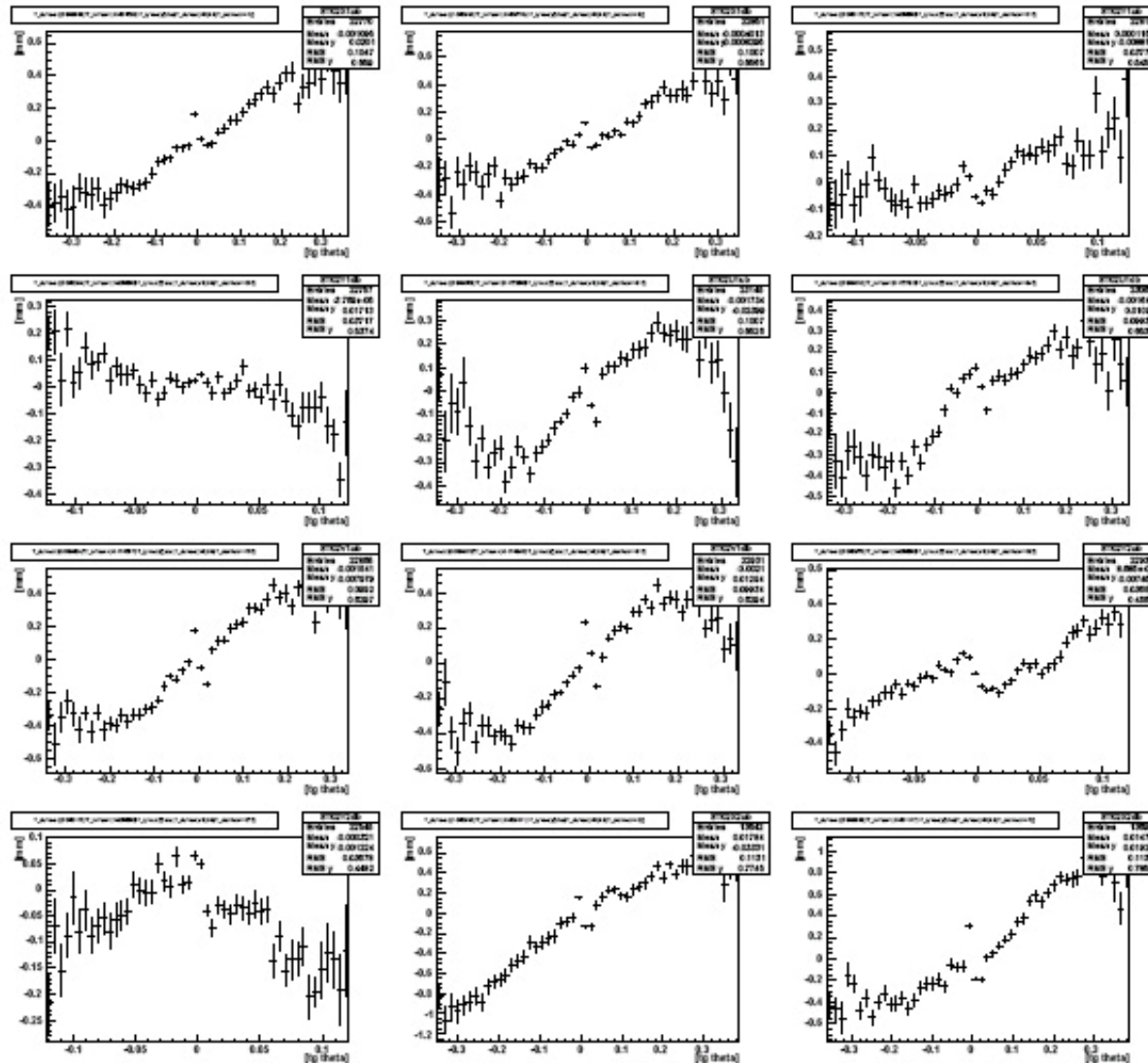


c



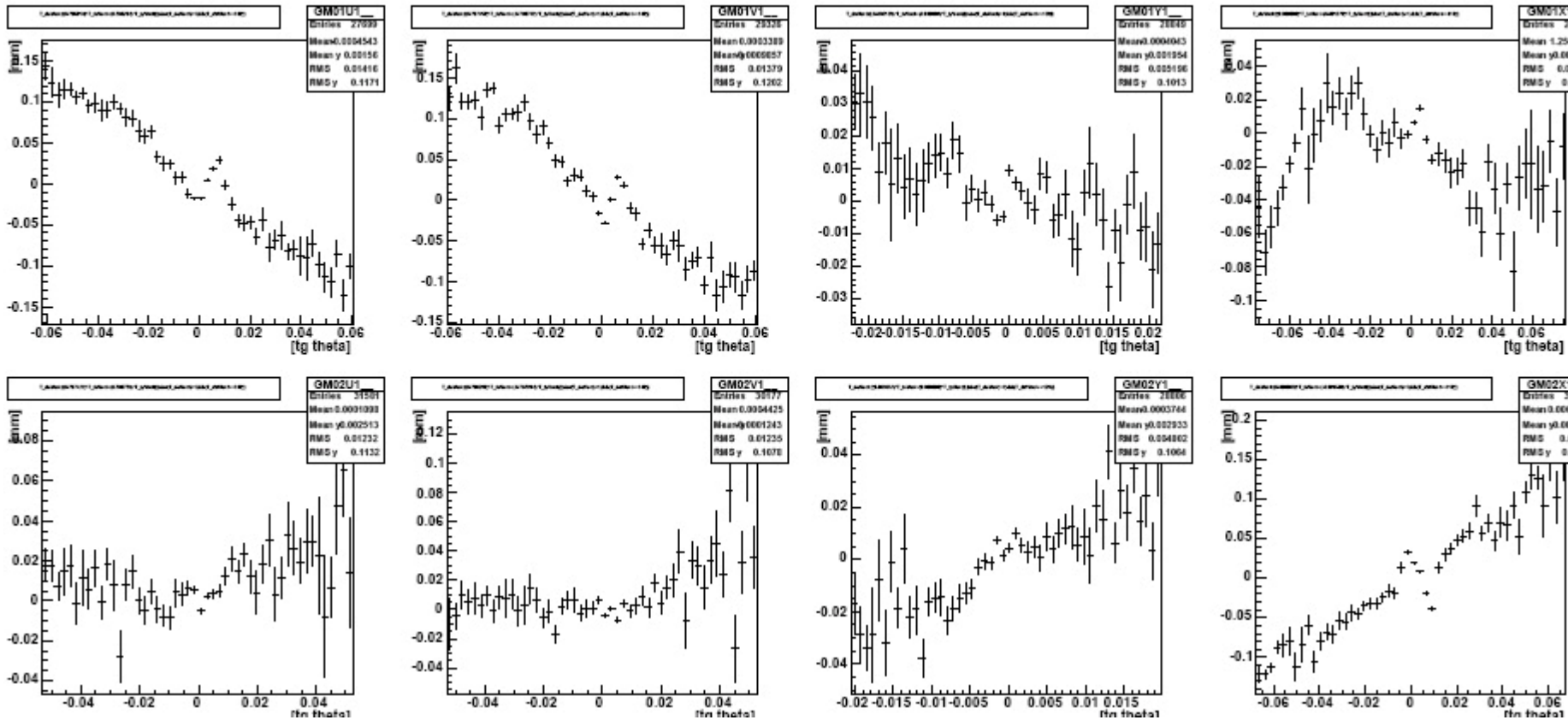
# Remaining problems

DrawDUvsT - ( ST02\*\*\*b) abs(T\_duVect)<6



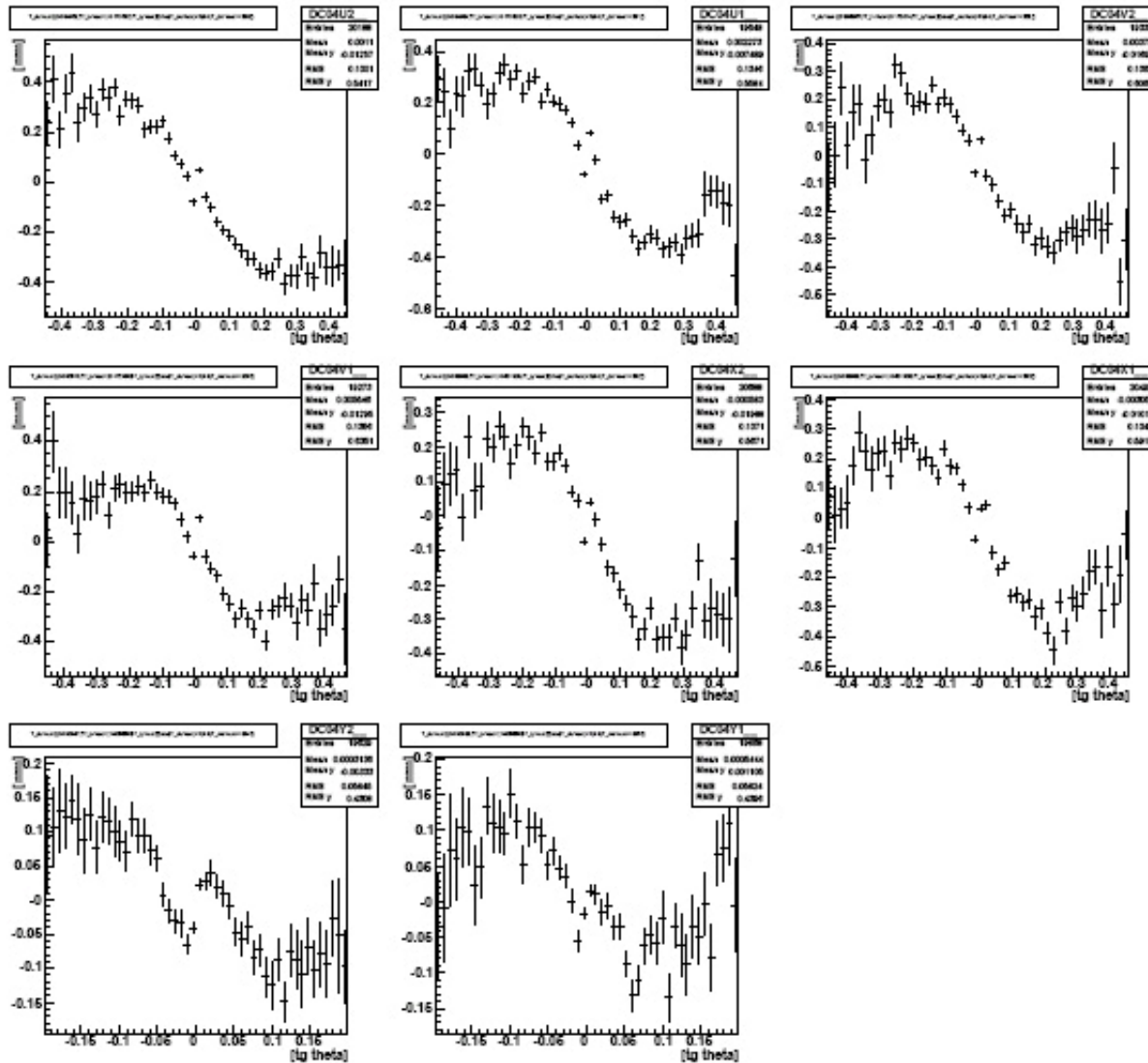
# Remaining problems

DrawDUvsT - ( GM01 GM02 GM03 GM04)  $\text{abs}(T\_duVect)<1$



# Remaining problems

DrawDUvsT - ( DC04) abs(T\_duVect)<3





# Problems cont.

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Problems with alignment performance:

1. Some periods in 2006 don't have alignment runs at all (e.g. W43)
2. Sometimes shift crew decided to take alignment run when there is problem with some of crucial detectors.  
E.g. W44 – alignment taken when GMs (used in align. procedure as pivot points) were switched off...

To do good alignment we need “alignment runs”:

- FIELDOFF and FIELDON
- Both taken at least once per period
- After each “long” access to the zone
- With the same detector conditions as for physics runs