Recent progress

Jamie C 31st March 08

TRIMS

- Were looking odd.....
- Step size too large!
- Tested some new values...
 - R73=180k
 - R75=180k
- Need to check this covers pixel spread! (TBD)





102







86



88

Cold Columns?

- Marcel reported uneven distribution of noise hits in different regions of the shapers à
- Explanation:
 - Effect seen only at very low threshold levels
 - Sensor is therefore seeing hits in ~all pixels (~override mode)
 - Therefore memories fill sequentially
 - Not enough memory to store three full rows of hits, hence "cold columns"





Yield/Bonding/PCBs

- See spreadsheet...
 - boards-yeildtracker.xls
- Missing ORE signals is a common failure of W10 parts
 - For further investigation...

•	Stock (12u+DPW)		
	W8 W10	9 >9	
	W#	60 (sealed)	

Outstanding issues

- Per-pixel scan data analysis
 - What spread do we see? (per pixel type)
 - What range of trims are required?
- Would like to run threshold scans while holding pixels in reset?
 - Matt says firmware will support this
 - Paul needs to confirm if software will override settings?
- Check for BANK=0 in raw data
 - Low priority as "cold-columns" now explained
 - But should still be run on all sensors to check data integrity, otherwise would be losing hit data with no knowledge
- Sensor #9 at IC
 - Mods done?
 - Threshold scan ok?
- Marcel will show
 - Row address corruption & per-row masking scans