Table of Contents

ThickGroove 1

Cosmic Runs (Nov-Dec 2015) 2

Good Run Merge (Nov-Dec 2015) 4

Restart Aquisition 5

Links with more info or previous measurements 6

provvisorio 7

ThickGroove

Cosmic Runs (Nov-Dec 2015)

3MM (Tmm) as tracker; Tmm drift: 300, TmmAmp: 540

5mm drift gap in TGD

137.138.179.109

ArCO2 93-7 2-3 l/h

	Run	Vdrift	V1	V2	V3	V4	Comments	Plots	Notes
	134	1150	1020	1020	900	900			
	133	1150	1020	1020	900	900	Pedestal run		
	132	1150	1020	1020	900	900	tripped det4		
	127	1150	1020	1020	900	900	nighr run, tripped det 1,2,4		
	126	1150	1020	1020	900	900	~ 1050 ev TGD, strange occupancy det1, three hot strips		
	125	1150	1020	1020	900	900	2500 ev TGD		
	119	1100	1000	1000	890	880	night run, tripped det4 after a while		
	113	1100	980	980	880	880	WE run, tripped det4	charge distribution	Noise peak on det1 (small bump also on det2)
	109	1150	980	980	890	890	6500 ev TGD	charge distribution	Noise peak on det1 (small bump also on det2)
	107	1150	950	950	880	880	night run, 7800 ev TGD, energy peak det 1-2 (from online)	charge distribution	Noise peak on det1 (small bump also on det2)
	98	1150	950	950	880	880	det4 tripped, 1000ev TGD		
	94	1150	980	980	880	880	5000 ev TGD	charge distribution	
	92	1100	1000	1000	900	880	tripped DET1 ~ 2850 good triggers	charge distribution	
	82	1450	930	930	850	850	stopped, ~ 4000ev TGD	charge distribution	
	79	1350	930	930	850	850	changed D, 660 e TGD	charge distribution	
	78	1250	930	930	850	850	changed D, 3400 ev TGD	charge distribution	
	75	1150	930	930	850	850	changed D, 2500 ev TGD	charge distribution	
	70	1050	930	930	850	850	night run, stoppe OK, 6000 ev TGD	charge distribution	
	68	1050	980	980	890	800	220 ev TGD		
	66	1050	980	980	890	800	det4 @ 800V , stopped ok, ~ 4800ev TGD, strange occupancy plot det 1	charge distribution	8200 good triggers, det1 quite low occupancy...
	61	1050	980	980	890	880	Sunday run, lowered V det 4 to avoid trips... tripped again DET4!!!	charge distribution	22900 good events. SPECTRA COMPLETELY DISTORTED BY NOISE, SEVERAL PEAKS

Run	Vdrift	V1	V2	V3	V4	Comments	Plots	Notes
59	1050	980	980	890	890	Saturday run, tripe det 4	charge distribution	~900 good events. NOISE PEAKS ON DET 1&2
57	1050	980	980	890	890	night run, tripped det 4	charge distribution	11400 good events
56	1050	980	980	890	890	stopped OK, 4700 ev TGD	charge distribution	
55	1050	980	980	890	890	ped		
54	1050	950	950	880	880	stopped OK, 2900 ev TGD	charge distribution	
53	1050	950	950	880	880	night run, stopped OK~ 5700 evn TGD	charge distribution	
52	1050	950	950	880	880	stopped OK, ~ 2000 ev TGD	charge distribution	
51	1050	950	950	880	880	stopped OK, 3900 ev TGD	charge distribution	
49	1050	1000	1000	900	900	det2 tripped	charge distribution	1850 good events
48	1050	1000	1000	900	900	night run, tripped det4	charge distribution	~10.7kev good
47	1050	1000	1000	900	900	4h run, stopped OK, TGD 3400 events	charge distribution	
46	1050	975	975	920	920	started at 9AM, det4 tripped	charge distribution	Still peaks on Det1...
45	1050	975	975	920	920	Pedestal run		
43	1050	950	950	880	880	runned all night OK, 7800 events TGD	charge distribution	Still peaks on Det1&2...
42	1100	1000	1000	900	900	stopped after ~ 4h, all fine, enegry peaks disappeared....	charge distribution	Still peaks on Det1&2...
41	1100	900	900	900	900	almost 7h run, no trip but from online seen strange E distribution in det1,2. ~ 4500 ev in TGD	charge distribution	Det1&2 show peaks similar to those in run 31. Noise, again?
40	1150	1020	1030	900	900	night run, tripped det2, funny energy distribution, probably due to det2...	charge distribution	
36	1150	1020	1030	900	900	All ok for ~ 2h, 2k events TGD	charge distribution	
31	1150	1020	1030	900	900	Weekend run, tripped Det1,2,4; Lost APV25 config after ~4100 events	charge distribution	Noise (??) peaks
30	1150	1020	1030	900	900	XXX		
29						pedestal run		
24	1150					XXX		
14	1150	1000	0	0	0	night run,only one detector ON	charge distribution	

Good Run Merge (Nov-Dec 2015)

Vdrift	V1	V2	V3	V4	Run range	Good Triggers	Comments	Plots	Notes
1050	1000	1000	900	900	47-48	14.5 kevents	(3.8+10.7(before eltx crash))(run 49, 1850 good events before eltx crash, could be added somehow...)	charge distribution	
1050	980	980	890	890	56-57	17.2 kevents	(5.8+11.4 (before eltx crash))	charge distribution	
1050	950	950	880	880	51-52-53-54	18.9 kevents	(4.7+2.4+7.8+3.9)	charge distribution	
1050	930	930	850	850	70	10.7 kevents		charge distribution	
1100	1000	1000	900	880	92	2.8 kevents	(before eltx crash)	charge distribution	
1150	1020	1030	900	900	40	10.8 kevents	(before eltx crash)	charge distribution	
1150	980	980	880	880	94	6 kevents		charge distribution	
1150	950	950	880	880	107	10 kevents		charge distribution	
1150	980	980	890	890	109	7 kevents		charge distribution	
1150	930	930	850	850	75	10.7 kevents		charge distribution	
1250	930	930	850	850	78	5.1 kevents		charge distribution	
1350	930	930	850	850	79	10.1 kevents		charge distribution	
1450	930	930	850	850	82	6 kevents		charge distribution	
1100	980	980	880	880	113	22 kevents	(before eltx crash)	charge distribution	Noise peak on det1 (small bump also on det2)

Restart Aquisition

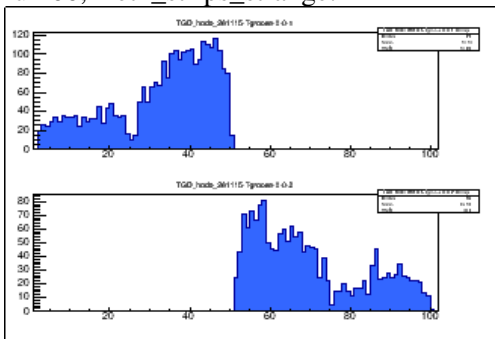
- OFF/ON crate
- disconnect/connect
- Acq OFF
- Dowload to HW, wait for the OK
- ACQ ON
- Start physics run (write)

Links with more info or previous measurements

- TGD_info_Nov2015.txt: Instructions from Fabrizio
- Silvia1.pdf: Preliminary measurements SIlvia (gas 93,7)
- Silvia2.pdf: Preliminary measurements SIlvia (gas 93,7)
- Silvia's presentation at RD51 meeting:
  https://indico.cern.ch/event/365380/session/10/contribution/24/attachments/726463/996915/Franchino_Thick_
- Proceeding_Elba_15.pdf: Proceeding Fabrizio Elba 15

provvisorio

- run 66, Det1_strips_strange:



- first results on ampl. and drift HV scan:

* first results on efficiency for run range 51-54 (Vdrift=1050, Vamp=950/950/880/880:

* first results on resolution for run range 51-54 (Vdrift=1050, Vamp=950/950/880/880:

extrapolation error is 130 microns -> resolution is ~ 0.51 mm.

* TGD_analysis_060116

- Thick_Groove_source_93_7.pdf: Thick_Groove_source_93_7.pdf

This topic: Main > ThickGroove
Topic revision: r65 - 2016-02-23 - SilviaFranchino

Copyright &© 2008-2024 by the contributing authors. All material on this collaboration platform is the property of the contributing authors.
or Ideas, requests, problems regarding TWiki? use Discourse or Send feedback