



# TRD weekly meeting

## weeks 36, 37: 6 – 17 September 2018

- LHC and TRD operation
- run 3 test
- further data taking

**Alexander Borissov, Münster University, CERN, 17.09.2018**

# LHC operation

Fill Info Status	Fill Number	Stable Beams Declared	Filling Scheme Name	Stable Beams Start	Stable Beams End	Stable Beams Duration	Data Taking Duration	Pause Duration	SOR/EOR Duration	Efficiency (%)
	7134	No	25ns_2556b_2544_2215_2332_144bpl_20injV3			00:00:00	00:00:00	00:00:00	00:00:00	
	7133	Yes	25ns_2556b_2544_2215_2332_144bpl_20injV3	07/09/2018 13:09:09	07/09/2018 16:37:38	03:28:29	02:27:35	00:16:09	00:41:05	<b>70.79</b>
	7132	Yes	25ns_2556b_2544_2215_2332_144bpl_20injV3	07/09/2018 03:04:31	07/09/2018 08:48:04	05:43:33	03:12:16	00:00:44	00:26:08	<b>55.96</b>
	7131	Yes	25ns_2556b_2544_2215_2332_144bpl_20injV3	06/09/2018 15:42:19	07/09/2018 01:13:33	09:31:14	08:55:48	00:04:16	00:21:37	<b>93.80</b>
	7130	No				00:00:00	00:00:00	00:00:00	00:00:00	
	7129	No				00:00:00	00:00:00	00:00:00	00:00:00	
	7128	Yes	25ns_2556b_2544_2215_2332_144bpl_20injV3	06/09/2018 04:11:02	06/09/2018 10:48:04	06:37:02	06:09:49	00:02:40	00:12:27	<b>93.14</b>

	7145	Yes	25ns_2556b_2544_2215_2332_144bpl_20injV3	10/09/2018 05:30:58	10/09/2018 14:29:57	08:58:59	08:15:05	00:04:36	00:16:54	<b>91.86</b>
	7144	Yes	25ns_2556b_2544_2215_2332_144bpl_20injV3	09/09/2018 17:57:48	10/09/2018 03:06:22	09:08:34	07:50:21	00:06:08	00:16:58	<b>85.74</b>
	7143	No				00:00:00	00:00:00	00:00:00	00:00:00	
	7142	Yes	25ns_2556b_2544_2215_2332_144bpl_20injV3	09/09/2018 10:31:36	09/09/2018 10:36:13	00:04:37	00:00:00	00:00:00	00:01:09	<b>00.00</b>
	7141	No				00:00:00	00:00:00	00:00:00	00:00:00	
	7140	No				00:00:00	00:00:00	00:00:00	00:00:00	
	7139	Yes	25ns_2556b_2544_2215_2332_144bpl_20injV3	08/09/2018 19:32:09	09/09/2018 08:03:05	12:30:56	11:09:11	00:05:58	00:36:34	<b>89.11</b>
	7138	No	25ns_2556b_2544_2215_2332_144bpl_20injV3			00:00:00	00:00:00	00:00:00	00:00:00	
	7137	Yes	25ns_2556b_2544_2215_2332_144bpl_20injV3	08/09/2018 03:18:19	08/09/2018 15:52:13	12:33:54	11:27:50	00:09:14	00:26:40	<b>91.24</b>
	7136	No				00:00:00	00:00:00	00:00:00	00:00:00	
	7135	Yes	25ns_2556b_2544_2215_2332_144bpl_20injV3	07/09/2018 19:46:01	07/09/2018 23:18:45	03:32:44	02:33:20	00:05:10	00:19:01	<b>72.08</b>

Run 3 tests 7th of September, data taking until 11 of September

7 of September TRD LDC 15 was replaced

11 of September, after power trip in rack I 28 alidcswie085 and 089 were switched ON manually

## TRD run 3 test 7.09

### Fill 7133, 3hr 30min:

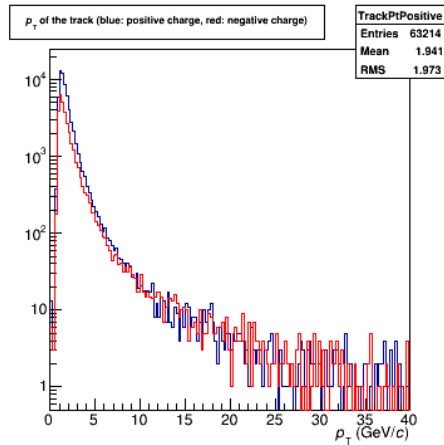
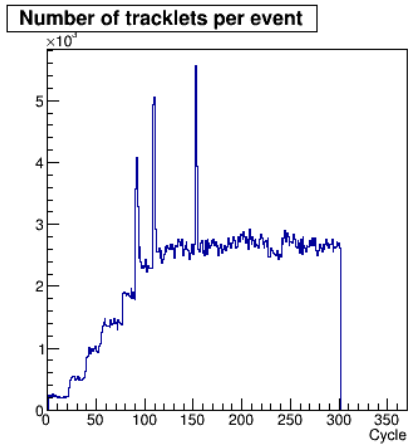
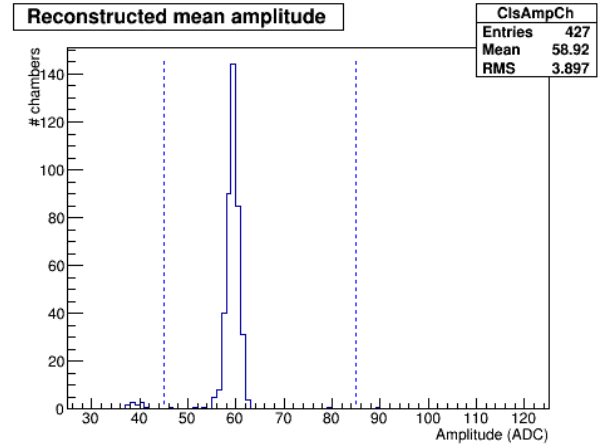
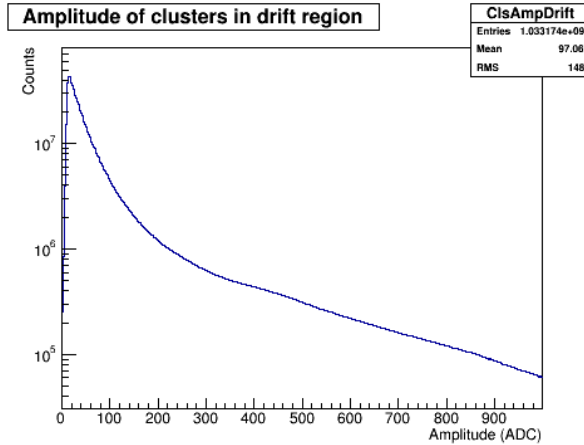
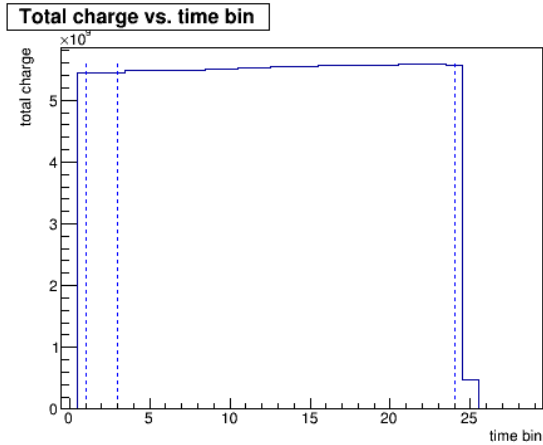
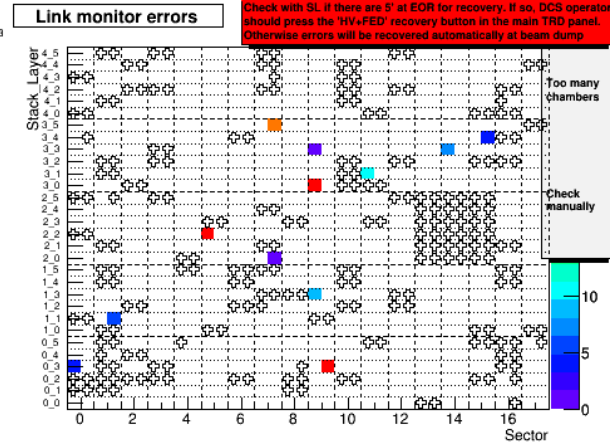
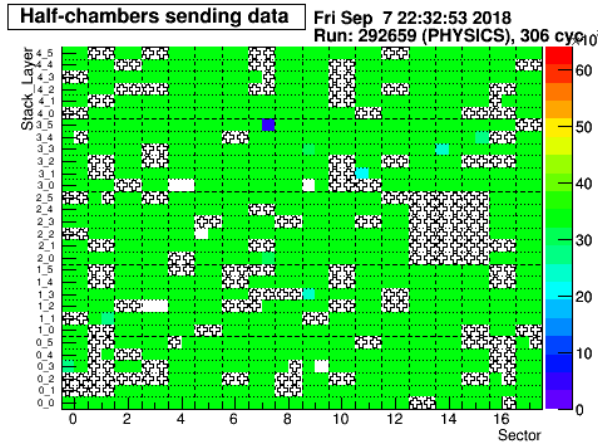
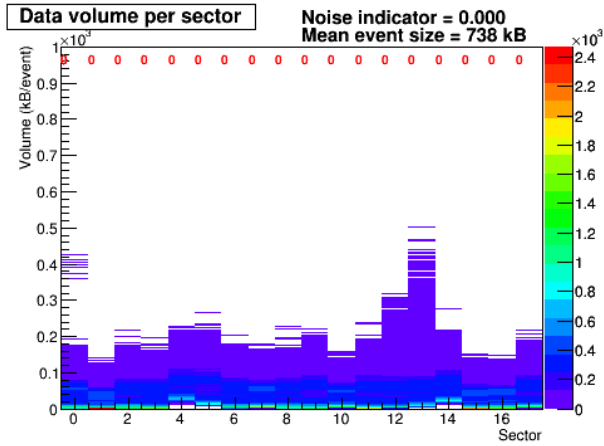
- Lumi ramped in steps upto 70 Hz/ $\mu$ b
- PHYSICS\_1: EMCAL, PHOS, CPV, HMPID, TOF, TRD
- PHYSICS\_2: MCH, MTR
- Later in the fill - PHYSICS\_3: TRD

### Fill 7135, 3hr 30min:

- Lumi ramped in steps upto 60 Hz/ $\mu$ b
- PHYSICS\_1: EMCAL, PHOS, CPV, HMPID, TOF
- PHYSICS\_2: MCH, MTR

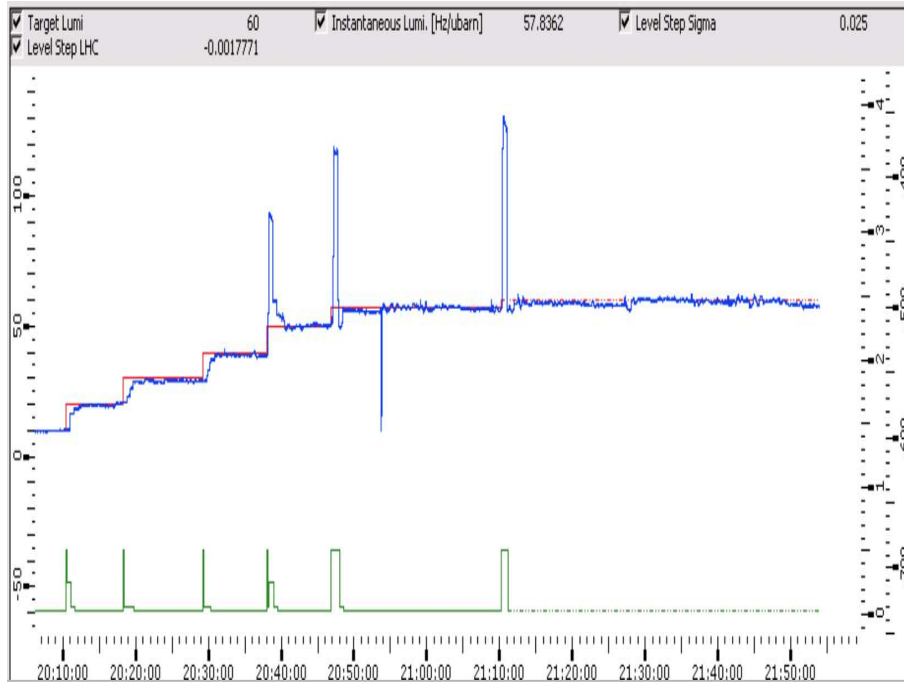
EORs during fill 7133 292627 FEDs 06-3-0 and 06-3-3 in ERROR  
292632 HV trip drift V of sector 04  
292637 GTU ERROR

# TRD run 3 test, run 292359

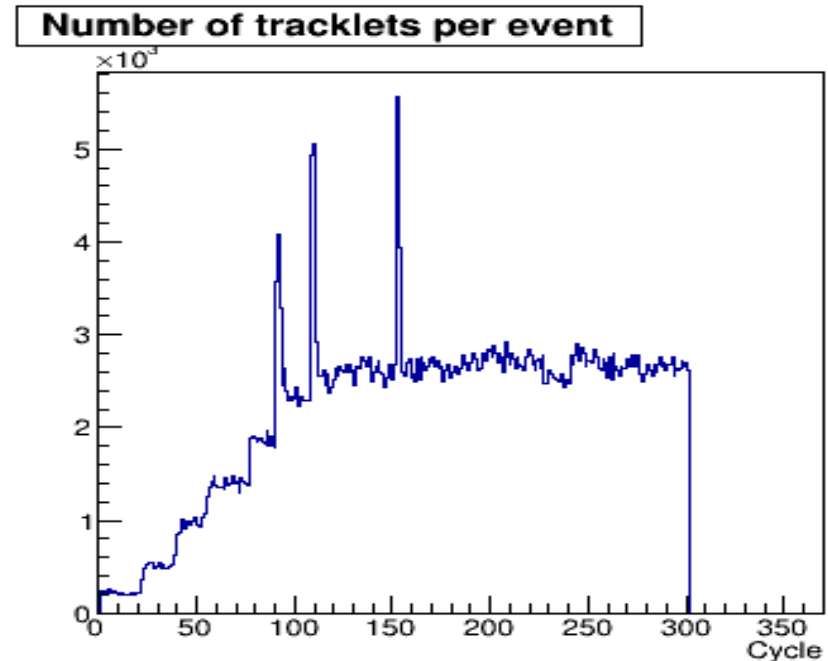
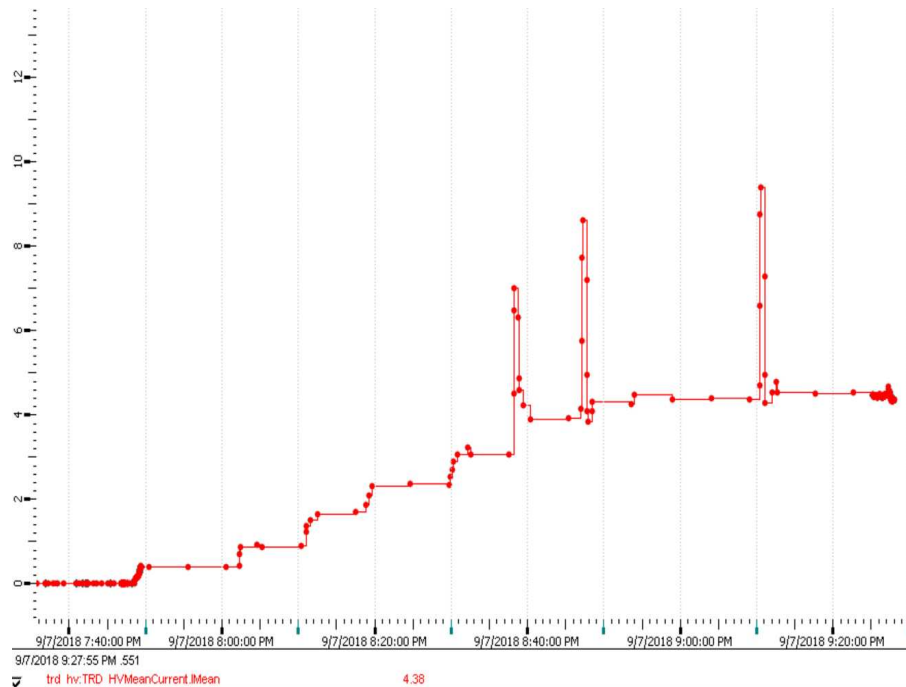


Run 292659 (PHYSICS)  
Warning flags:  
PH plot: Yes  
Mean amplitude: No  
Running time: 162 min, 307 cycles. Trigger main PH & data volume: ALL  
Chamber blacklist: 01\_4\_1 A, 01\_4\_1 B, 16\_3\_2 A, 16\_3\_2 B, 17\_0\_5 B, 16\_0\_2 B, 02\_0\_2 A, 02\_0\_2 B, 08\_0\_3 B, 11\_2\_2 A, 00\_0\_3 A (LD, 062), 01\_1\_1 B (LD, 084), 03\_1\_2 A (D, 306), 03\_1\_2 B (D, 306), 04\_3\_0 A (D, 306), 04\_3\_0 B (D, 306), 05\_2\_2 A (LD, 306), 07\_2\_0 B (LD, 020), 07\_3\_5 B (LD, 296), 09\_0\_3 B (LD, 306), 09\_1\_3 A (LD, 133), 09\_3\_0 A (LD, 306), 09\_3\_3 A (LD, 017), 11\_3\_1 A (LD, 165), 14\_3\_3 A (LD, 108), 15\_3\_4 B (LD, 067).

# Fill 7135, run 292359: EMCAL, TRD curr., # of tracklets



- note current contradiction between EMCAL and TOF for limi measurement was discussed on RC meeting 11/09
- TRD data: average lumi cutted and number of tracklets per cycle (over some time) may be compared as a (normalized) ratio
- those data, normalized on lumi, can be presented in comparison with EMCAL and TOF, if will be normalized to lumi measurement



# Further tests

	July			Aug					Sep				
Wk	27	28	29	30	31	32	33	34	35	36	37	38	39
Mo	$\beta^* = 90\text{ m}$ run	9	16	23	30	6	13	★ 20	27	3	10	today	24
Tu													
We				MD 2								TS2	
Th										Jeune G.			
Fr											MD 3		
Sa													
Su													

- two switches NETGEAR JFS524 for the replacement are available
- dedicated tests and recover of stable LMEs are desirable
- configuration of FED of 04-3-0 to ready
- test of TRD PHYSICS  $\longleftrightarrow$  COSMICS configurations from ACT was discussed with RC and planned during TS2