TRD weekly meeting
week 16: 16–23 April 2018

- fill summary

- last runs with triggers

- TRD performance

- to do

Alexander Borissov, Münster University, CERN, 23.04.018

Fill summary

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 (%)	# of Runs	Time to First Run
🔵	6595	Yes	25ns_339b_326_206_266_12bpi_31inj	22/04/2018 22:14:56	23/04/2018 07:19:19	09:04:23	08:47:44	00:00:00	00:06:04	96.94	3	00:06:46
🟢	6594	Yes	25ns_339b_326_206_266_12bpi_31inj	22/04/2018 09:29:22	22/04/2018 18:43:43	09:14:21	09:01:58	00:00:25	00:07:50	97.77	4	00:02:22
🟢	6592	Yes	Single_10b_9_2_2_BSRT_Calib_RampUp	21/04/2018 23:15:46	22/04/2018 02:10:06	02:54:20	02:50:01	00:00:00	00:02:02	97.52	1	00:03:08
🟢	6584	Yes	25ns_75b_62_32_62_12bpi_9inj	21/04/2018 04:04:20	21/04/2018 10:55:08	06:50:48	06:30:37	00:00:00	00:06:03	95.09	3	00:13:23
🟢	6583	Yes	25ns_75b_62_32_62_12bpi_9inj	20/04/2018 19:48:23	21/04/2018 01:40:00	05:51:37	05:36:23	00:01:09	00:06:13	95.67	3	00:03:50
🟢	6579	Yes	25ns_75b_62_32_62_12bpi_9inj	20/04/2018 00:22:38	20/04/2018 12:17:57	11:55:19	11:44:24	00:00:00	00:05:50	98.47	3	00:04:32
🟢	6574	Yes	Single_12b_8_8_8_2018	18/04/2018 22:28:06	19/04/2018 10:01:37	11:33:31	10:20:51	00:00:00	00:21:09	89.52	10	00:06:52
🟢	6573	Yes	Single_3b_2_2	18/04/2018 00:29:29	18/04/2018 06:50:19	06:20:50	06:03:46	00:00:00	00:02:02	95.52	1	00:03:32
🟢	6570	Yes	Single_3b_2_2_2	17/04/2018 12:54:14	17/04/2018 19:30:50	06:36:36	03:16:44	00:00:52	00:37:45	49.60	17	00:18:20

Duration of stable beams up to almost 12 hours.

Last runs with TRD triggers since 22/04

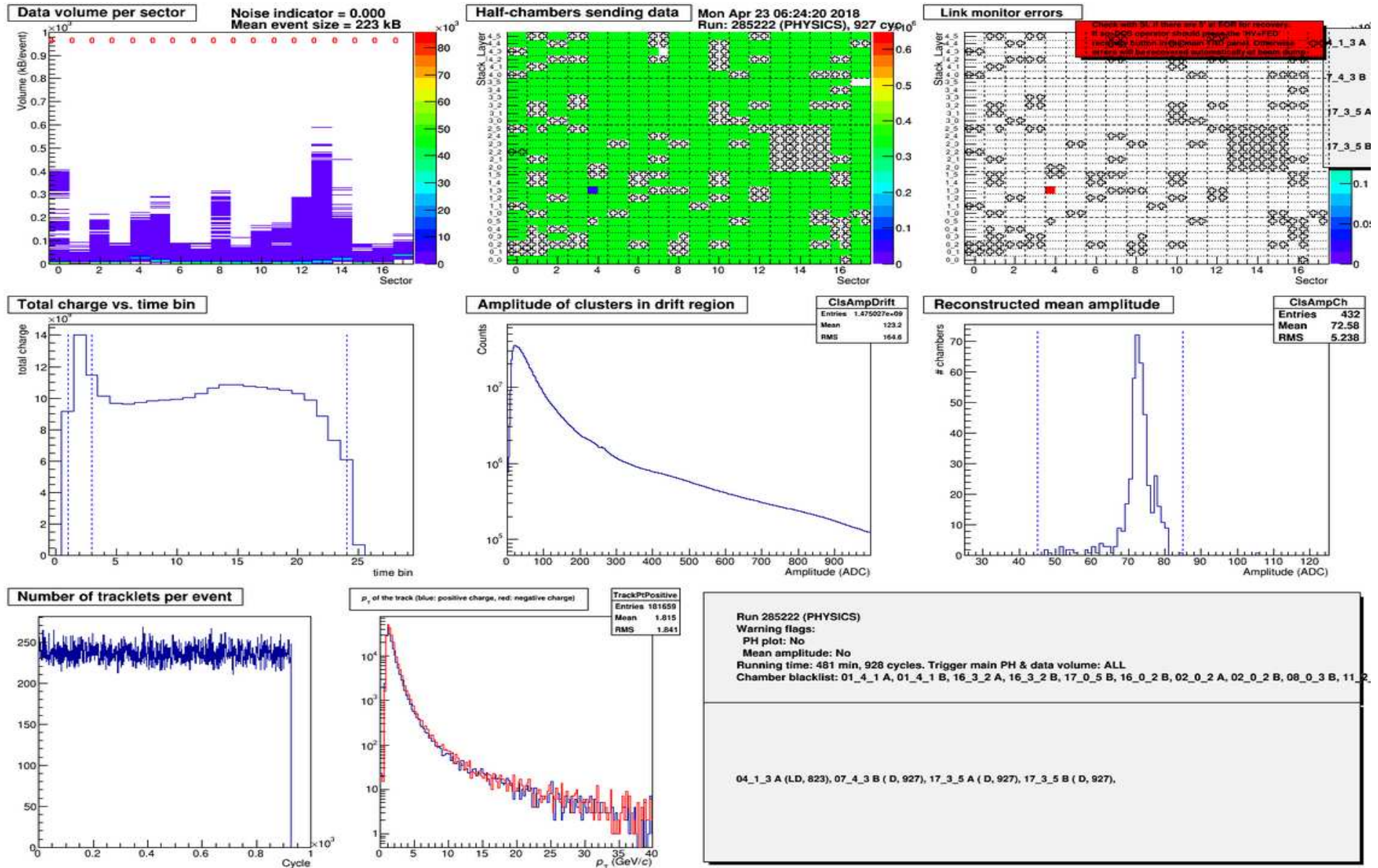|																			
	285224	23/04/2018 06:31:02	47.2 m	196	19	13	PHYSICS_1			5 855 091	2 030.20	PHYSICS	C	-30	-6	BeamDump	Yes	23/04/2018 07:20:11	3 554 211
	285223	23/04/2018 06:27:42	0.5 m	197	19	14	PHYSICS_1			62 742	746.93	PHYSICS	C	-30	-6	Subsystem_failure:DCS	Yes	23/04/2018 06:30:12	38 481
	285222	22/04/2018 22:21:42	8 h	207	19	17	PHYSICS_1			60 700 186	2 103.04	PHYSICS	C	-30	-6	Subsystem_failure:DCS	Yes	23/04/2018 06:23:51	36 313 037
	285211	22/04/2018 19:32:52	23.8 m	183	3	17	TEST_1			227 744	157.39	TECHNICAL	C	-30	-6	Operator_Request	No data	22/04/2018 19:58:05	442 388
	285203	22/04/2018 18:09:59	32.7 m	206	19	16	PHYSICS_1			4 116 874	2 036.04	PHYSICS	C	-30	-6	BeamDump	Yes	22/04/2018 18:44:39	2 375 167
	285202	22/04/2018 17:12:46	54.9 m	206	19	16	PHYSICS_1			6 859 898	2 052.02	PHYSICS	C	-30	-6	Operator_Request	Yes	22/04/2018 18:09:35	3 988 728
	285201	22/04/2018 17:10:02	0.2 m	206	19	16	PHYSICS_1			4 726	78.77	TECHNICAL	C	-30	-6	Operator_Request	Yes	22/04/2018 17:12:09	11 610
	285200	22/04/2018 09:31:44	7.6 h	206	19	16	PHYSICS_1			57 362 326	2 098.80	PHYSICS	C	-30	-6	Operator_Request	Yes	22/04/2018 17:08:21	33 467 389
	285184	22/04/2018 06:53:08	1 h	167	3	14	TEST_1			628 019	168.96	TECHNICAL	C	-30	-6	Subsystem_failure:DCS	No data	22/04/2018 07:56:11	1 356 170
	285165	21/04/2018 23:18:54	2.8 h	207	19	17	PHYSICS_1			5 747 076	560.20	PHYSICS	C	-30	-6	BeamDump	Yes	22/04/2018 02:10:59	7 398 259
	285127	21/04/2018 09:35:14	1.3 h	207	19	17	PHYSICS_1			8 882 756	1 856.38	PHYSICS	C	-30	-6	BeamDump	Yes	21/04/2018 10:56:05	5 837 294
	285126	21/04/2018 09:31:55	0.2 m	207	19	17	PHYSICS_1			3	0.04	PHYSICS	C	-30	-6	DAQ_Request	Yes	21/04/2018 09:34:06	1 033
	285125	21/04/2018 04:17:43	5.2 h	207	19	17	PHYSICS_1			35 413 311	1 888.51	PHYSICS	C	-30	-6	Operator_Request	Yes	21/04/2018 09:31:21	23 181 341
	285108	20/04/2018 23:57:09	1.7 h	207	19	17	PHYSICS_1			11 312 792	1 837.39	PHYSICS	C	-30	-6	BeamDump	Yes	21/04/2018 01:40:54	7 432 423
	285107	20/04/2018 23:48:05	5.2 m	199	19	16	PHYSICS_1			1 120 434	3 028.20	PHYSICS	C	-30	-6	Operator_Request	Yes	20/04/2018 23:55:21	795 230
	285106	20/04/2018 19:52:13	3.8 h	207	19	17	PHYSICS_1			25 031 375	1 801.08	PHYSICS	C	-30	-6	Subsystem_failure:DCS	Yes	20/04/2018 23:44:57	16 661 540

285222 36.3 Mevents, trigger rejection HJT 3873 HNU 1250 HQU 433
285200 33.5 Mevents, trigger rejection HJT 3957 HNU 1098 HQU 353 (Benjamin)
280066 10. Mevents, trigger rejection HJT 3973 HNU 1374 HQU 479 (10/10/17)
In general agreement with previous year. More cross-checks for final confirmation?
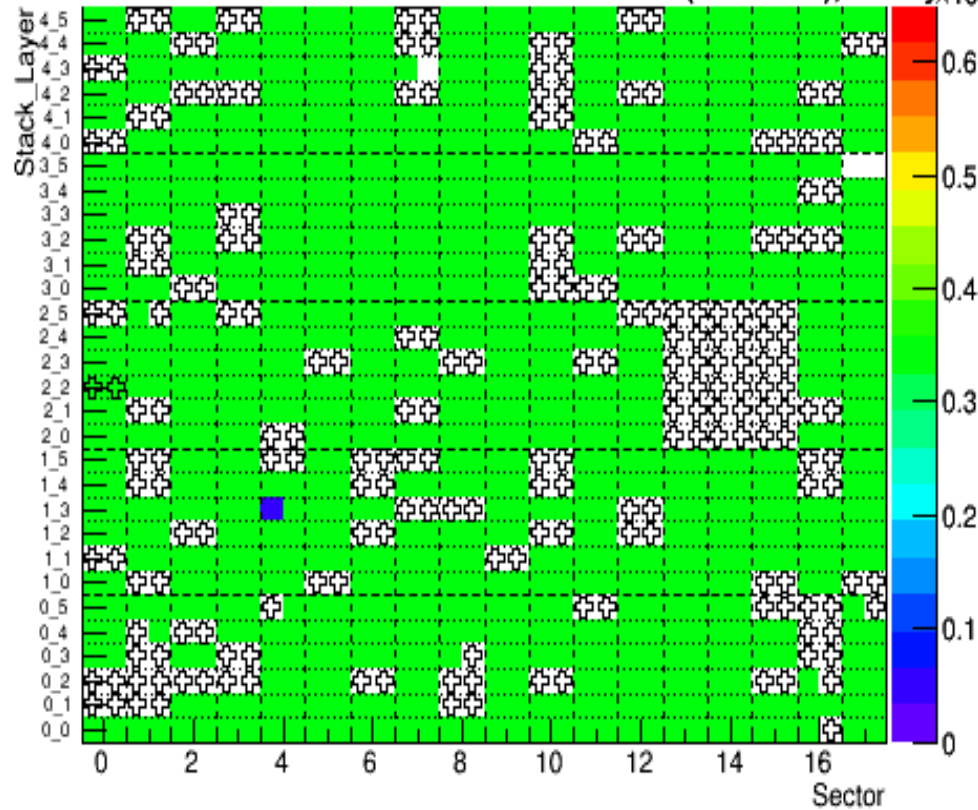
DQM plots

Almost all channels with HV (Yvonne) and FEDs off are labeled.
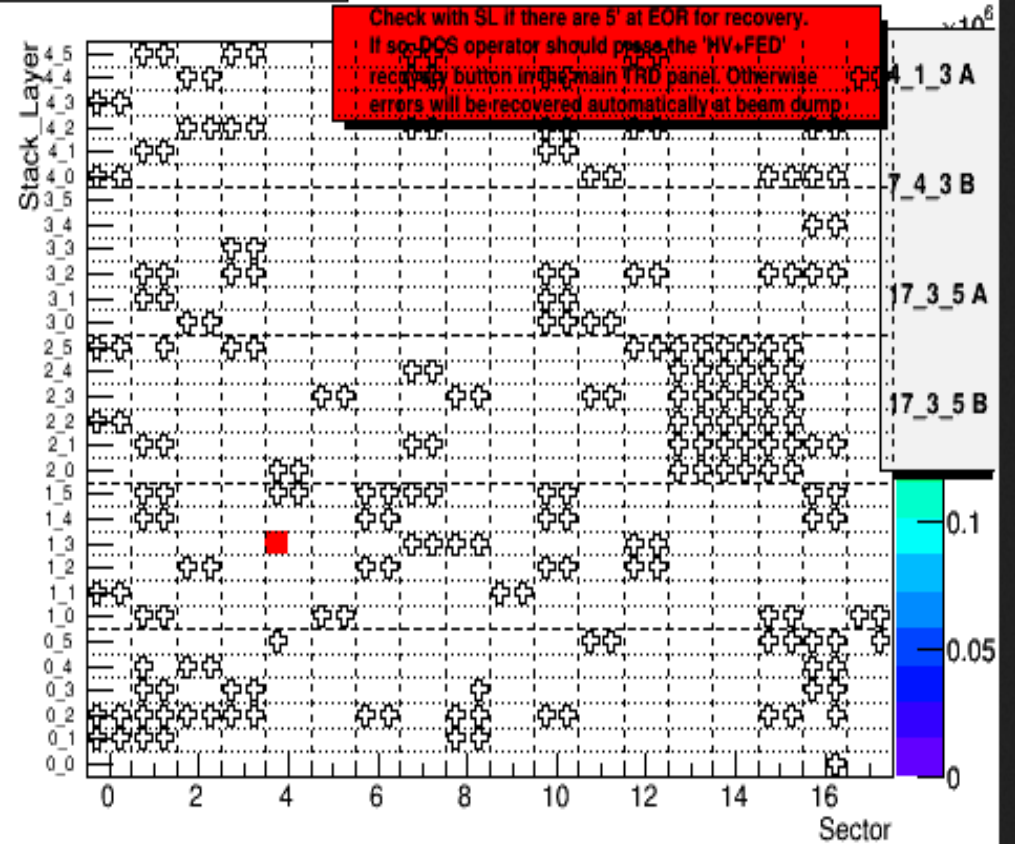$\implies$ Quite reasonable performance...

Updated LME DQM plots
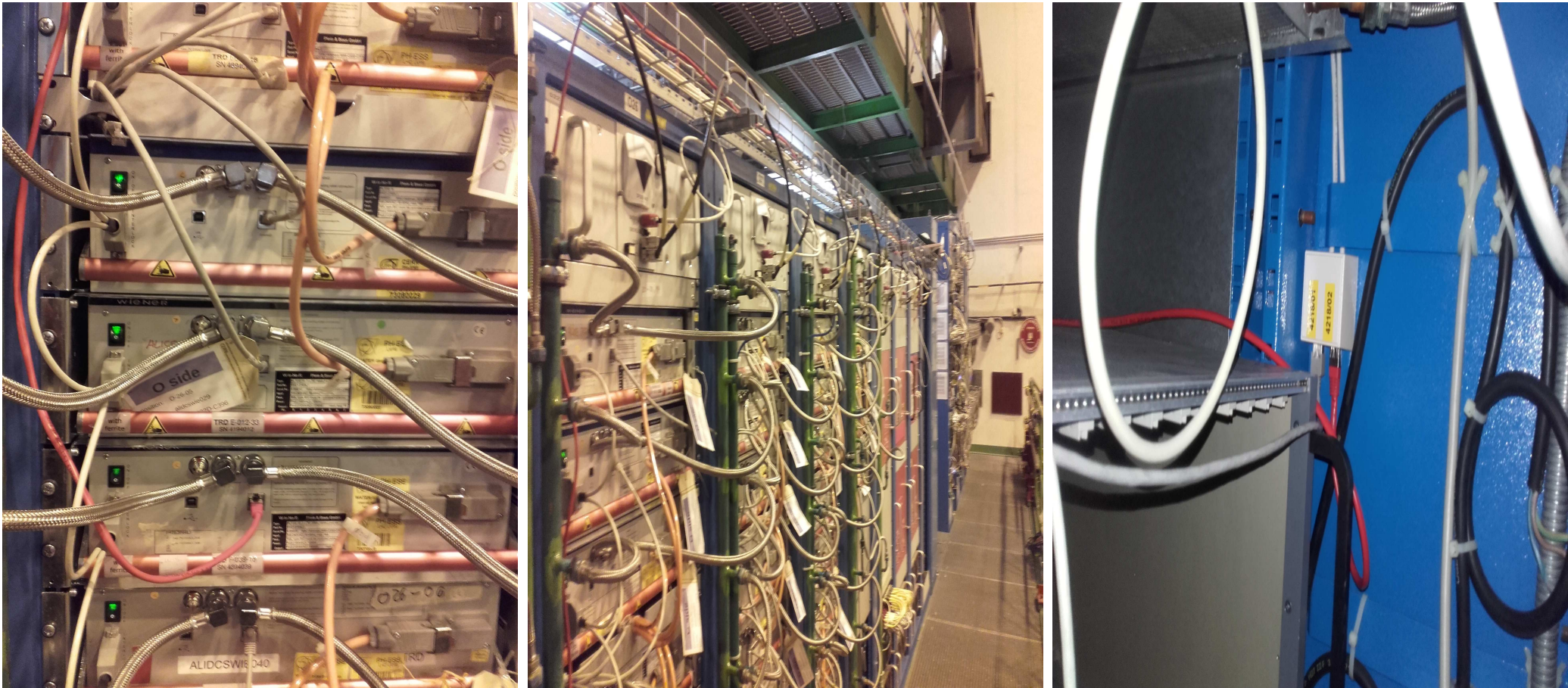

A few more channels will be labeled with HV and FED will be switched off.
Cross-checks of Yvonne.

Updated connection for alidcswie030

after access on 18/04. Broken outlet/connection in O26 3618/08 confirmed, new outlet O32 4218/02 (Alexander,Ole):

Firmware was updated for all spared PSUs on 20/04 (Alexander,Mateusz).

To do

- Confirm the activation of TRD-based triggers: HJT, HNU, HQU.

- Finish disabling of FEDs and its list for AMORE according to the last runs. But without TRD interventions on the DCS during the ongoing handshake.

- Tune the layout of the DQM LME plots (Ruediger).

- Take pedestal run.

- Check TRD configuration for negative polarity.

- Increase alarm thresholds for alidcswie30 channel0 (SEC06L01) from 136A to 140A due to alerts at 139A (Lucas)?

- +?