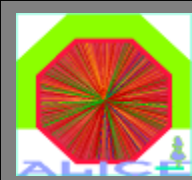


Beam dump by ALICE on 28/10/10 @ 20:04:21

Antonello Di Mauro (CERN)

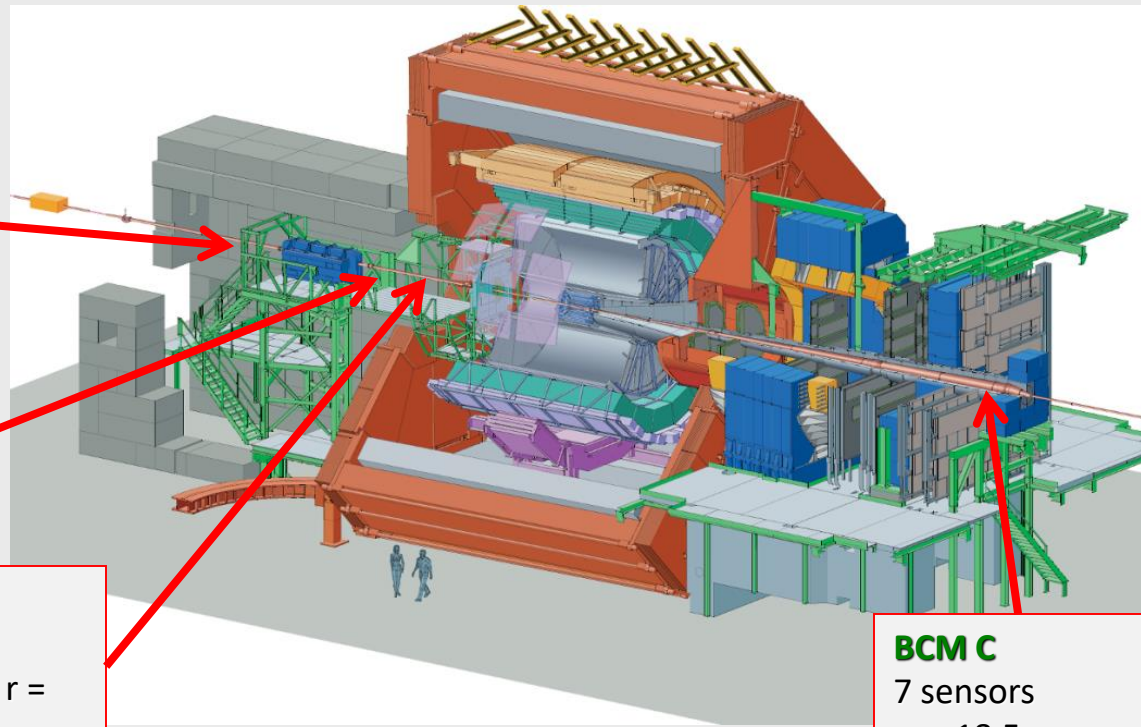
MPP, 12/11/10



Beam Conditions Monitoring



BLM-MWBMD

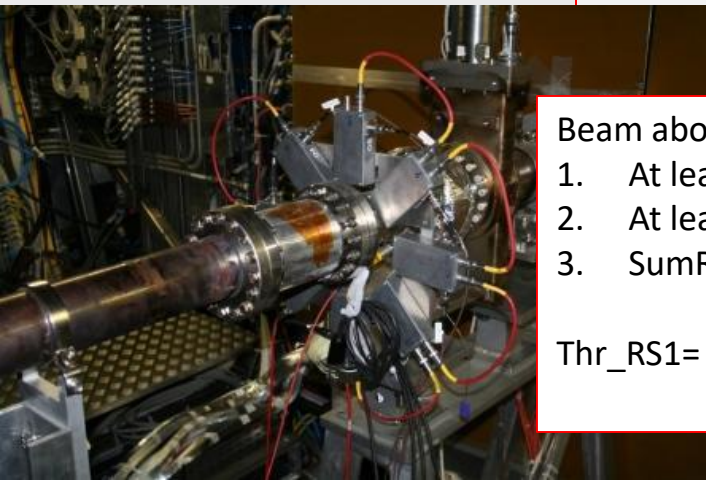


BCM-A

8 sensors
 $z = +6 \text{ m}$, $r = 10 \text{ cm}$

BCM C

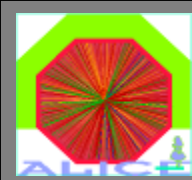
7 sensors
 $z = -18.5 \text{ m}$,
 $r = 10 \text{ cm}$



Beam abort conditions:

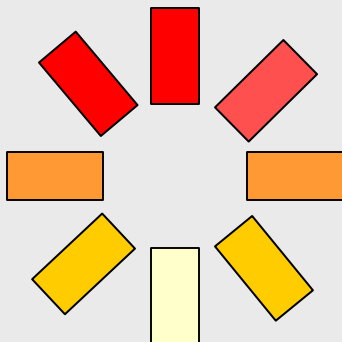
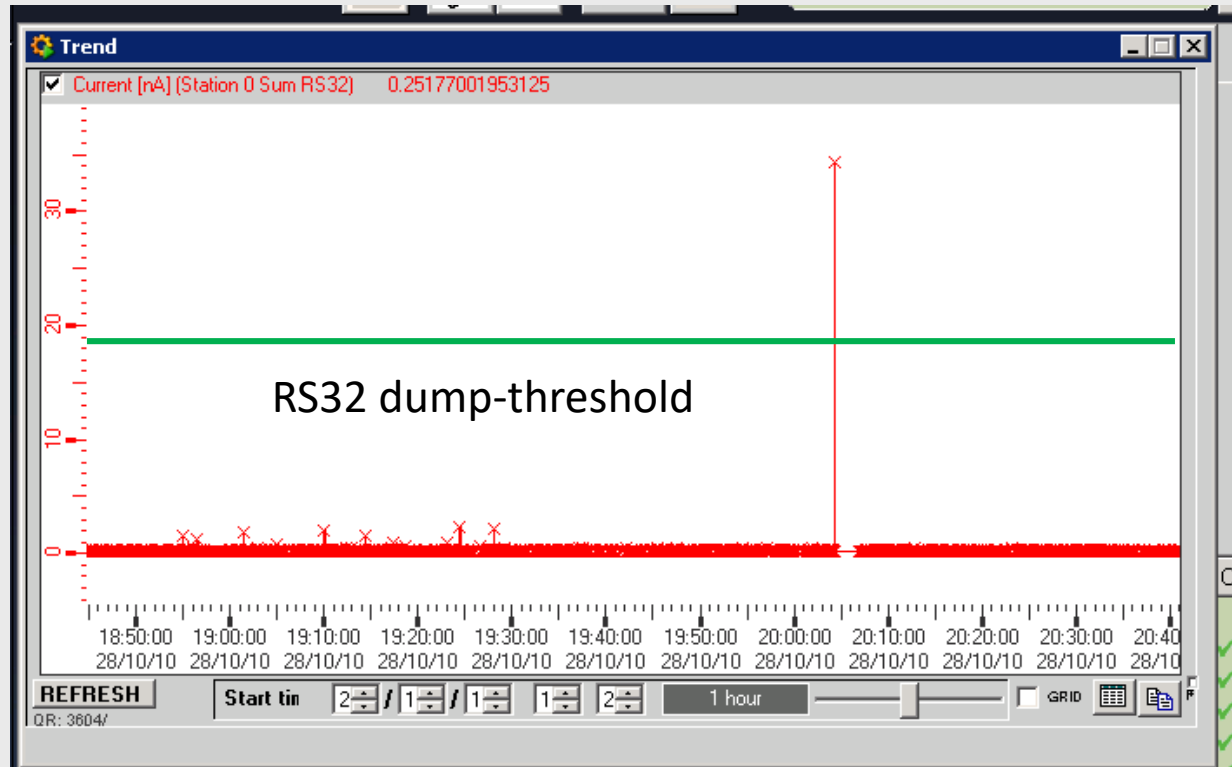
1. At least 3 sensors RS1 above threshold for two consecutive frames
2. At least 3 sensors RS2 above threshold
3. SumRS32 (= avg of RS32 excluding the two highest and the lowest) above threshold

Thr_RS1= 1500 nA, Thr_RS2= 750 nA, Thr_RS32=20 nA

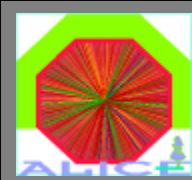


BCM signals on 28/10/10

Sensor	RS1 (nA)	RS2 (nA)	RS32 (nA)
A0	172	161	69
A1	200	189	78
A2	147	140	60
A3	-	70	30
A4	-	-	24
A5	-	-	16
A6	160	-	26
A7	170	-	32



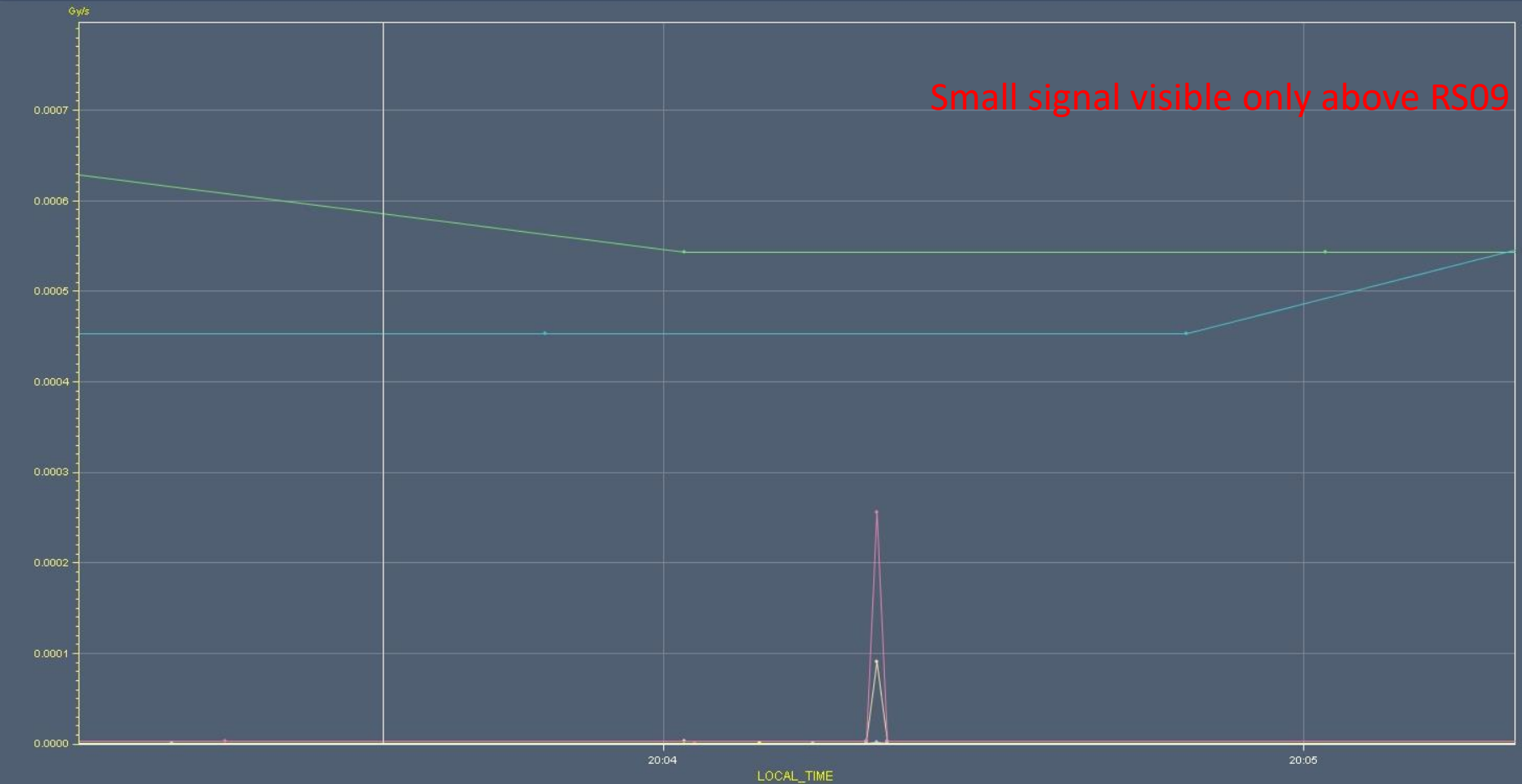
It seems a “slow” process,
dump originated by RS32,
RS1 @ ~10% of dump-threshold

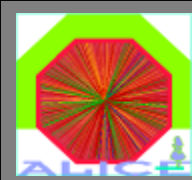


Signals in UX25 BLMs

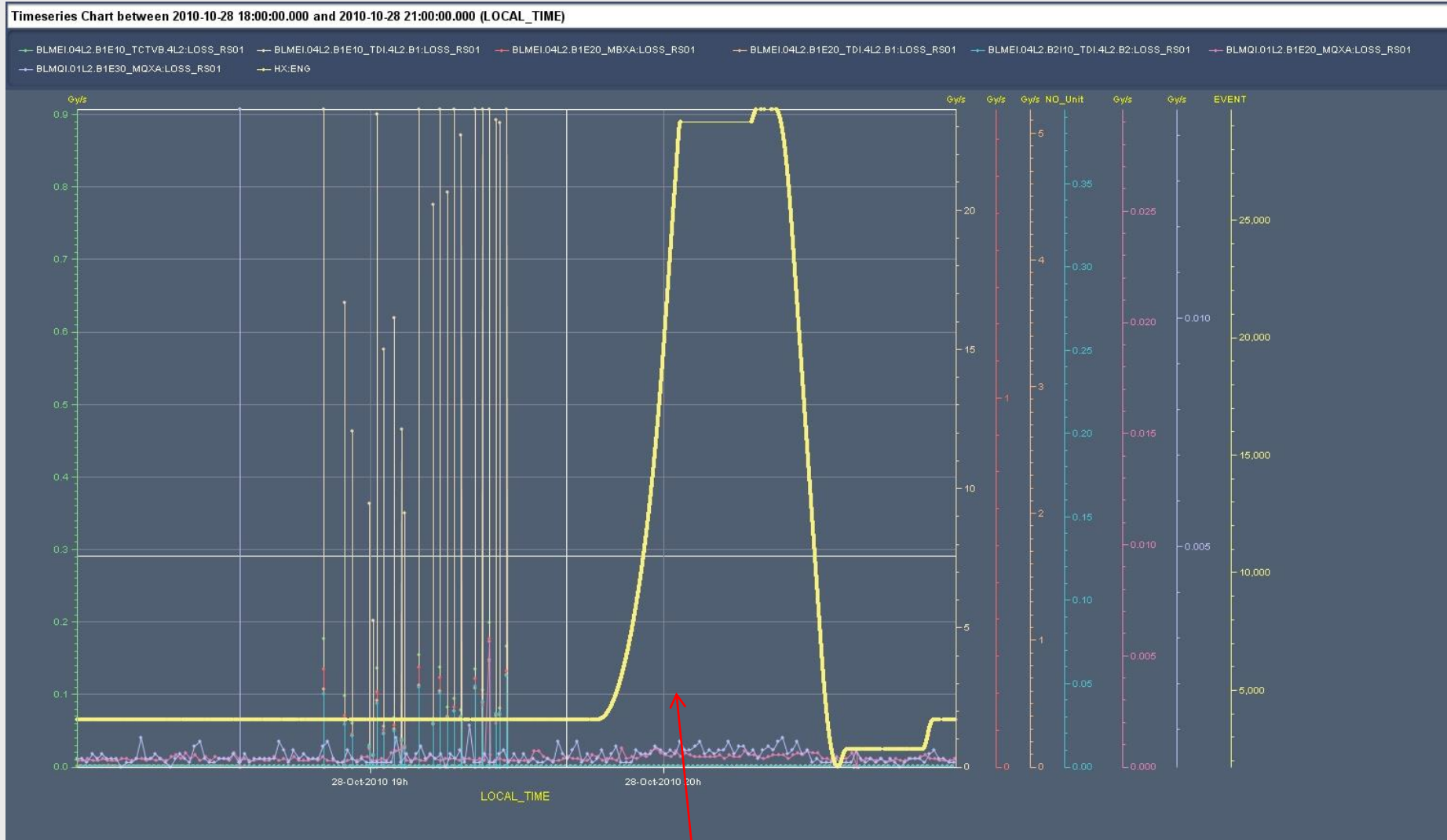
Timeseries Chart between 2010-10-28 18:00:00.000 and 2010-10-28 22:00:00.000 (LOCAL_TIME)

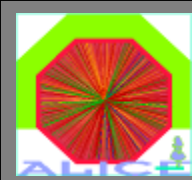
BLMEI.01L2.B1E10_MBWMD:LOSS_RS01 BLMEI.01L2.B1E10_MBWMD:LOSS_RS06 BLMEI.01L2.B1E10_MBWMD:LOSS_RS09 BLMEI.01L2.B1E10_MBWMD:LOSS_RS12 BLMEI.01L2.B1I10_MBWMD:LOSS_RS01 BLMEI.01L2.B1I10_MBWMD:LOSS_RS06
BLMEI.01L2.B1I10_MBWMD:LOSS_RS09 BLMEI.01L2.B1I10_MBWMD:LOSS_RS12



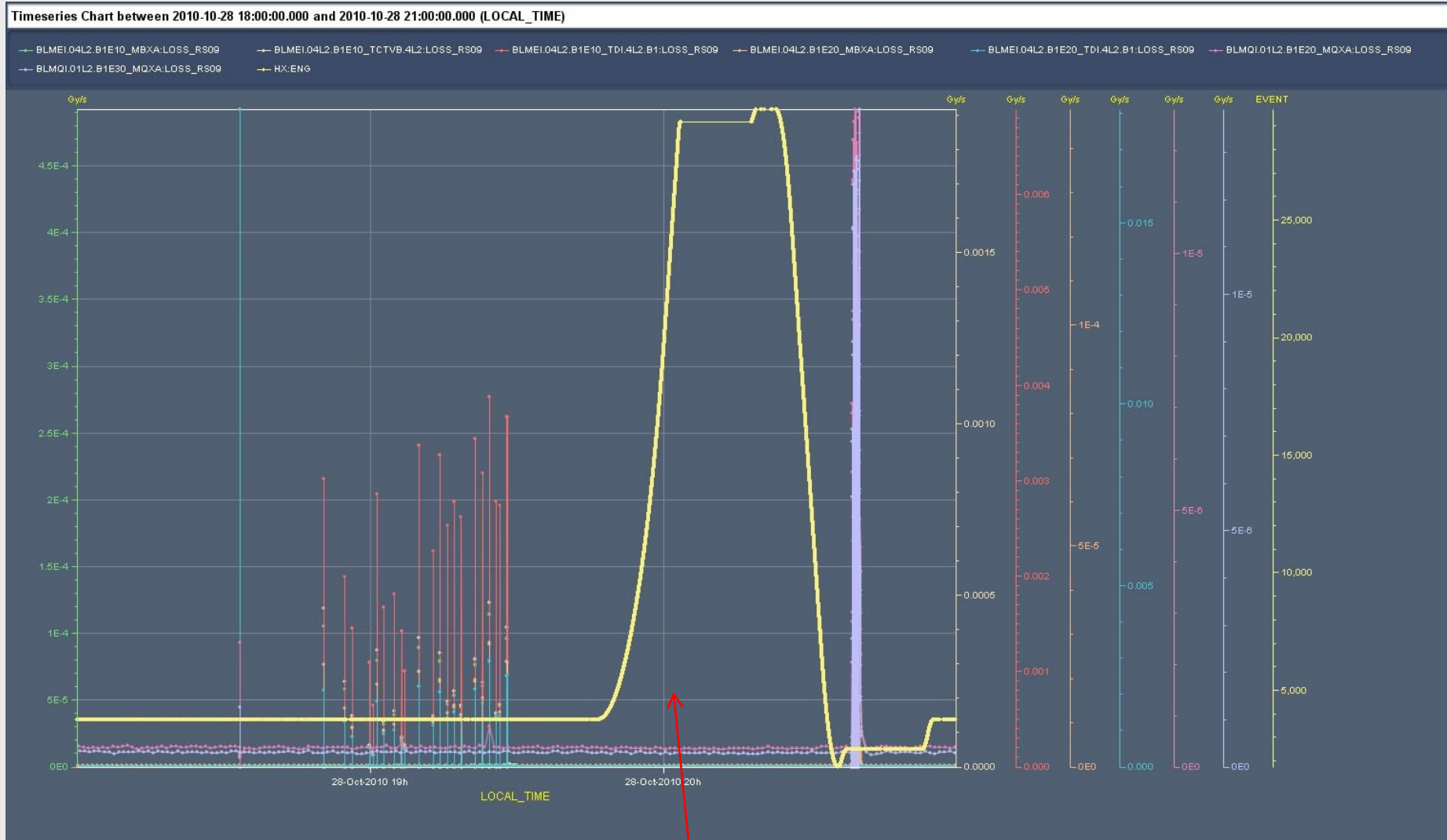


No signals from other BLMS RS1

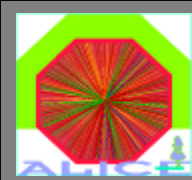




No signals from other BLMS RS9

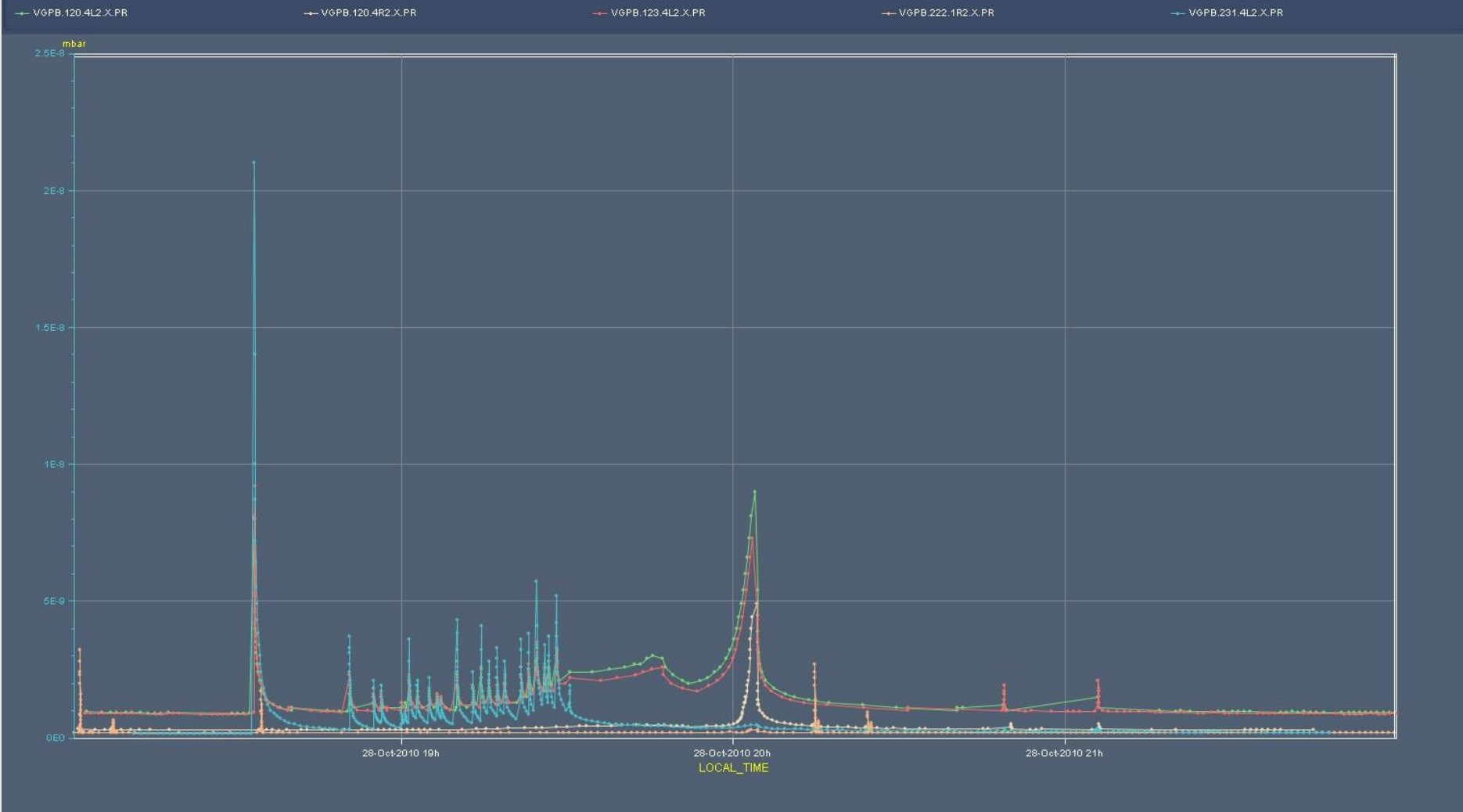


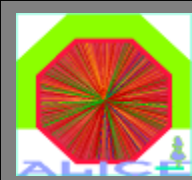
ALICE dump



Vacuum activity around P2

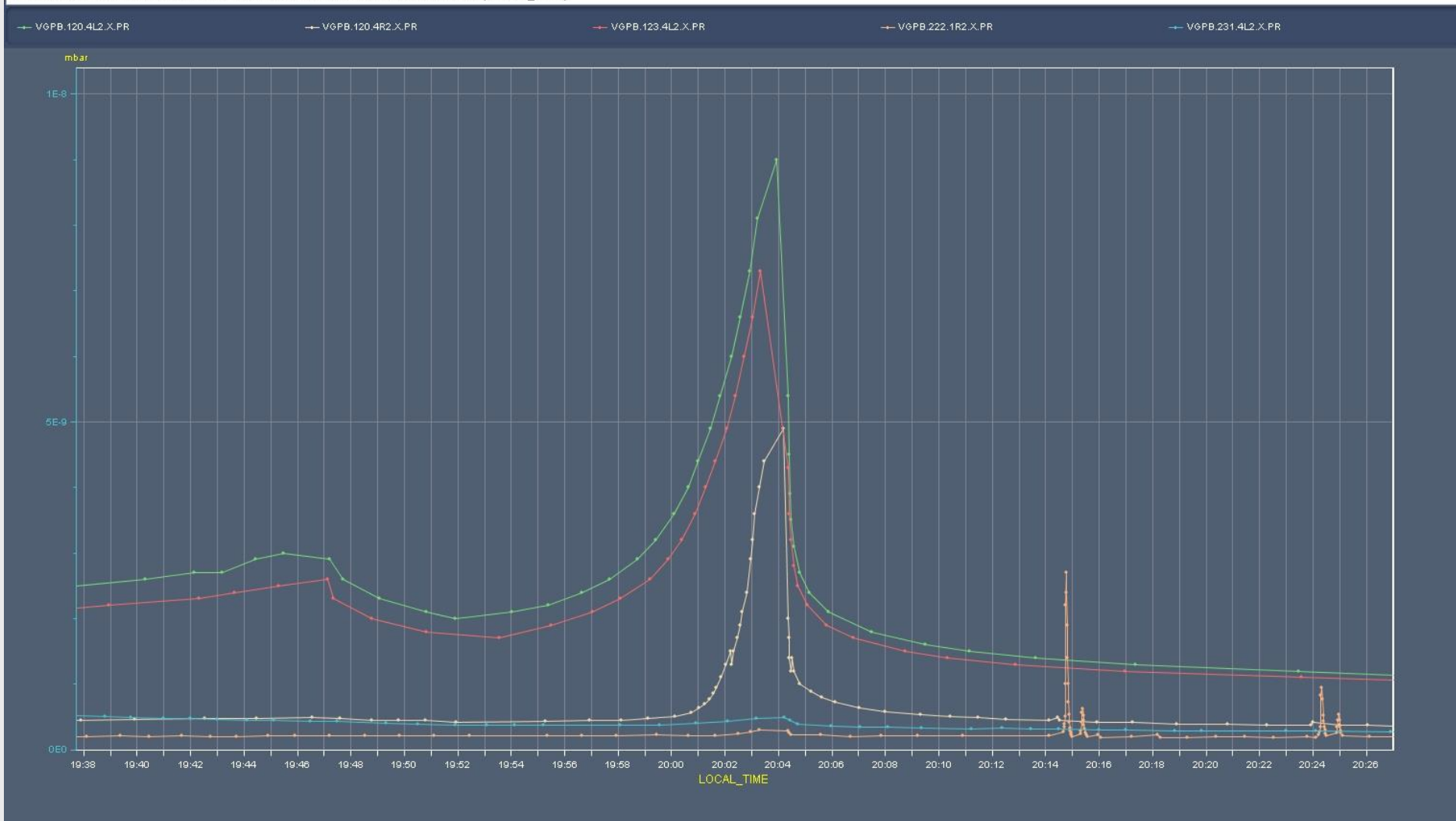
Timeseries Chart between 2010-10-28 18:00:00.000 and 2010-10-28 22:00:00.000 (LOCAL_TIME)

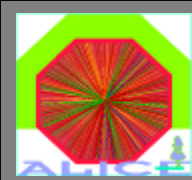




Vacuum activity around P2

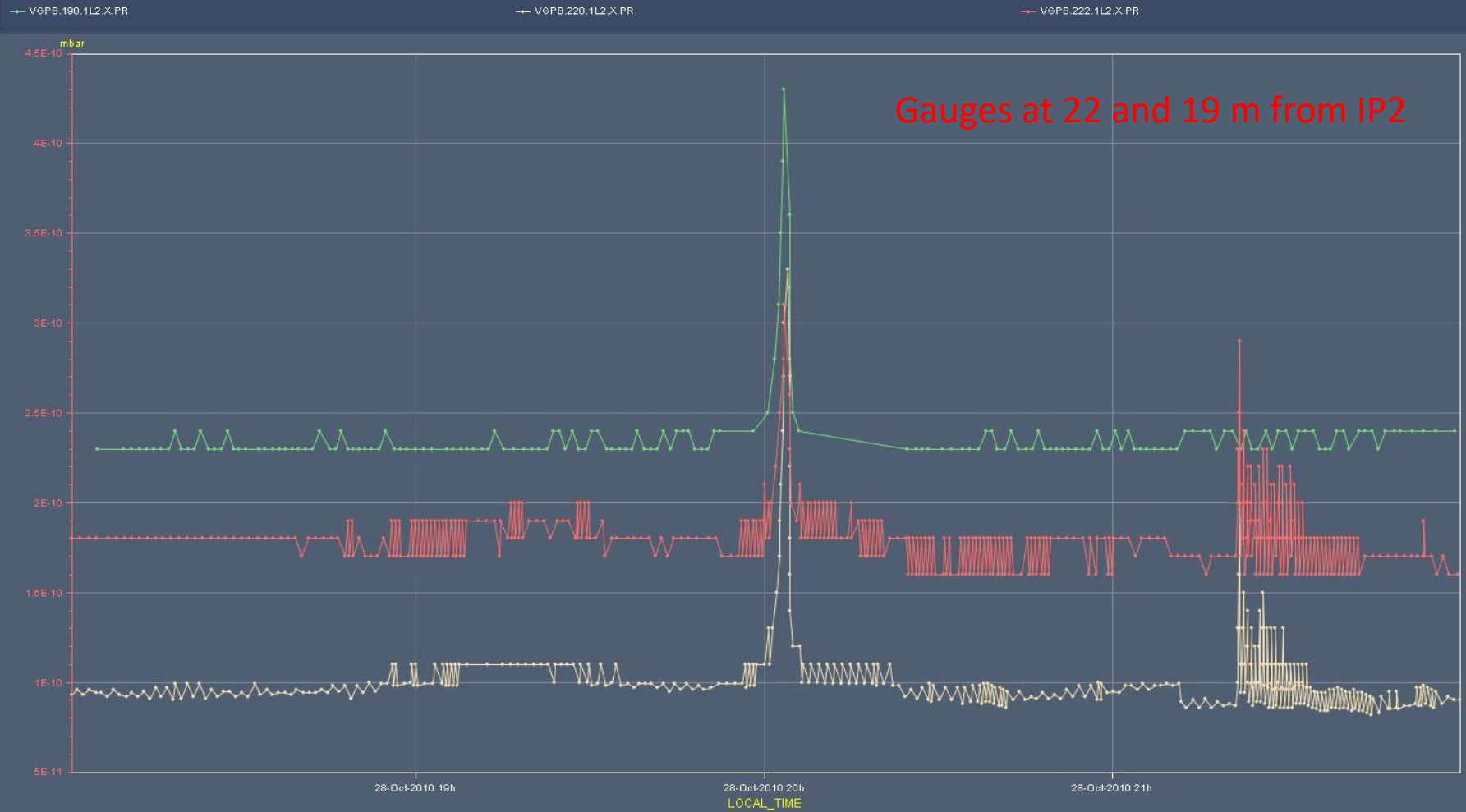
Timeseries Chart between 2010-10-28 18:00:00.000 and 2010-10-28 22:00:00.000 (LOCAL_TIME)

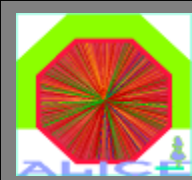




Vacuum activity around P2

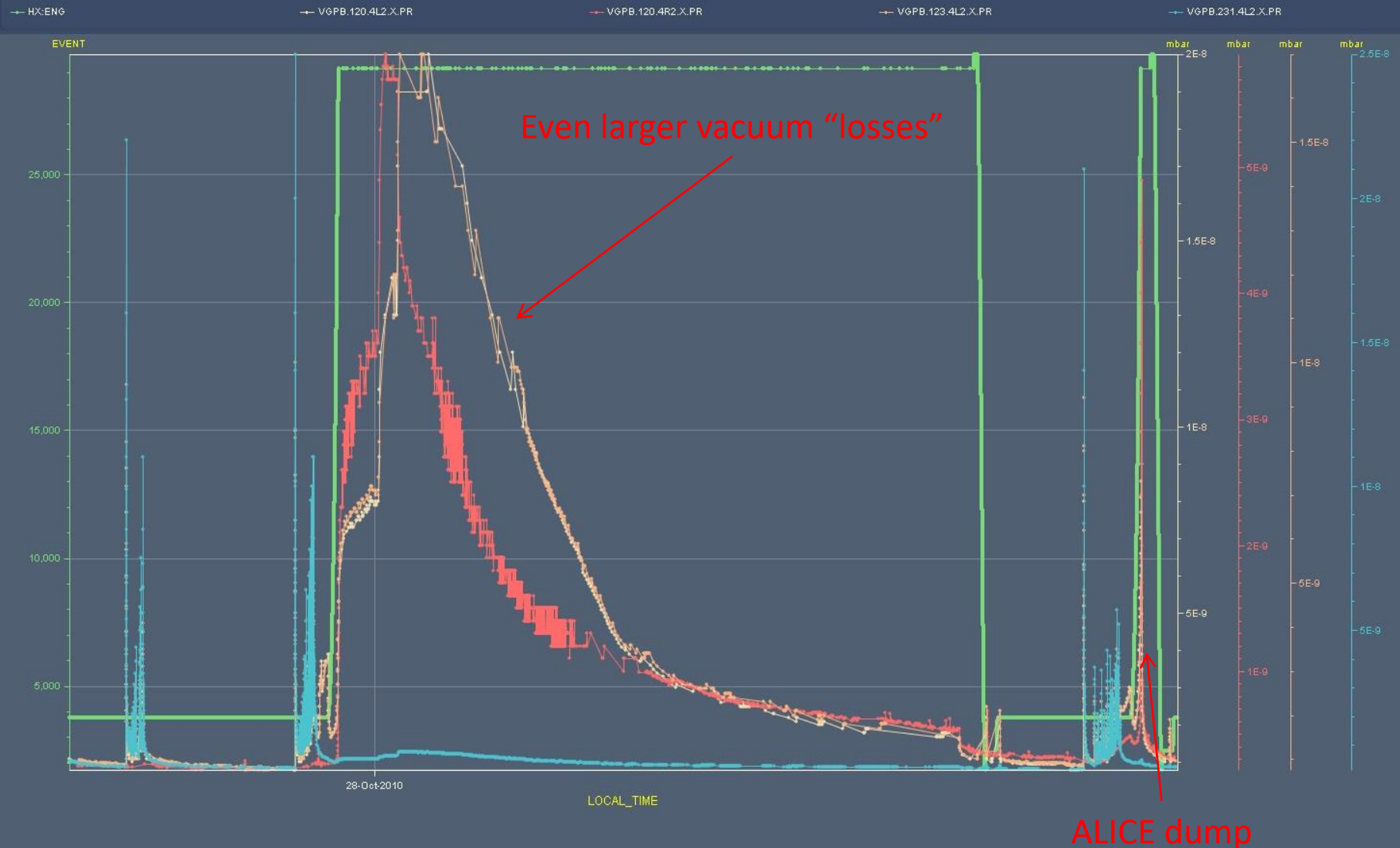
Timeseries Chart between 2010-10-28 18:00:00.000 and 2010-10-28 22:00:00.000 (LOCAL_TIME)

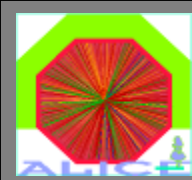




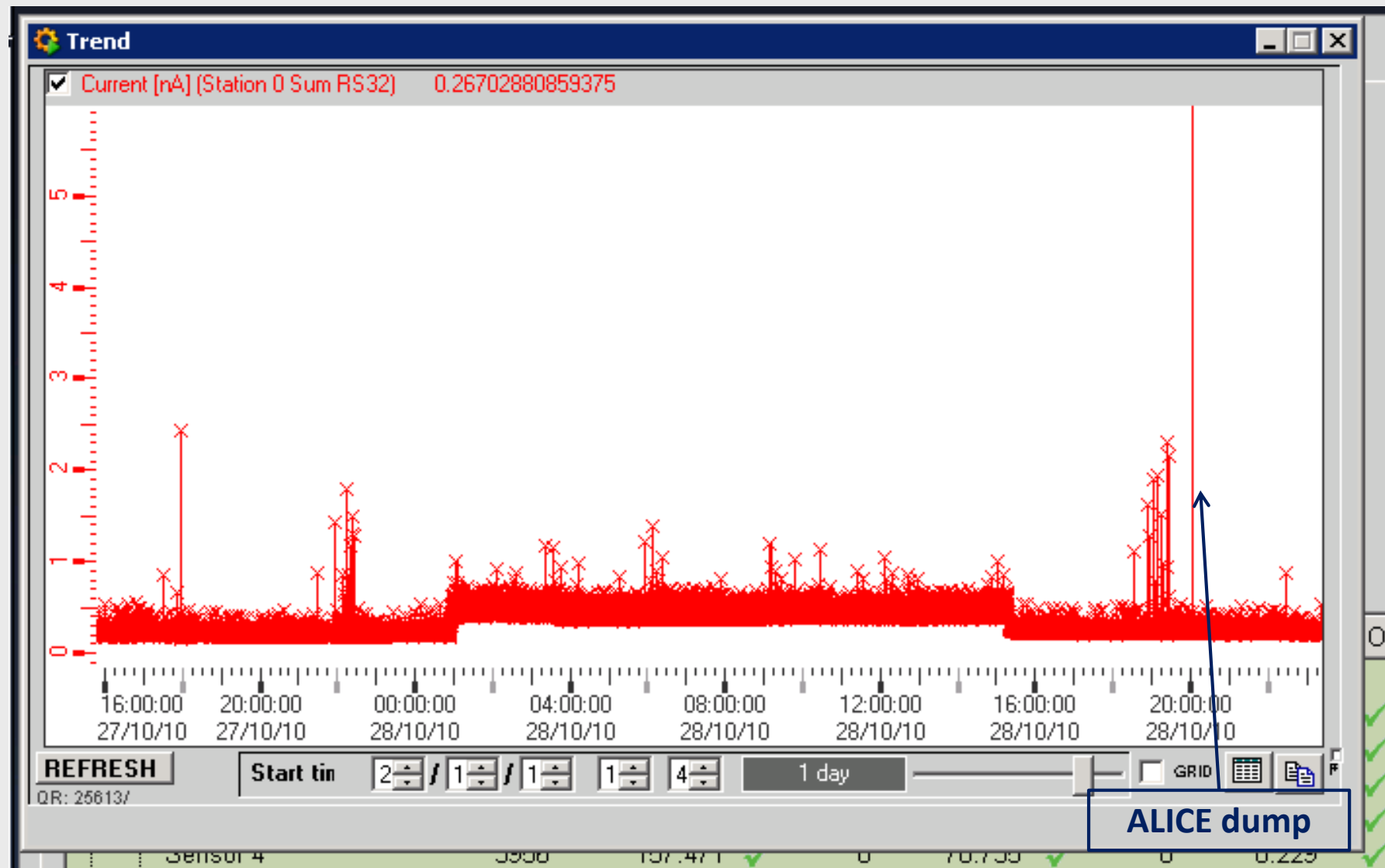
Observations form previous fill

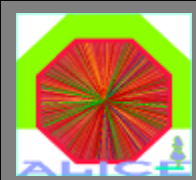
Timeseries Chart between 2010-10-27 16:00:00.000 and 2010-10-28 21:00:00.000 (LOCAL_TIME)





Observations form previous fill





Summary

- Signal losses only visible on long RS both in BCM and in UX25 BLMs
- Correlation with vacuum activity around P2 rather weak...