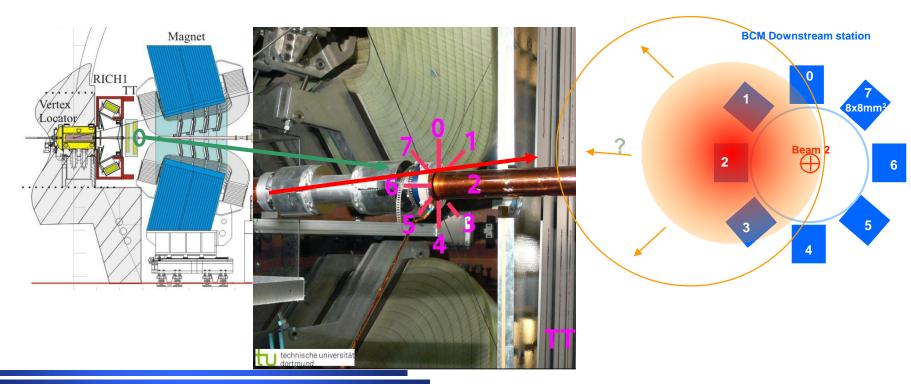


Traditional annual LHCb dump

- ÆRN
- TDI shot with MKI and jaws at -2.4/-5.9 mm @ Sunday 00:46:10
 - All previous shots typical "TDI levels"
 - Loss appeared as a concentrated shower at ~9 o'clock in BCM as seen along Beam 2
 - 7000 nA max seen in sensor 2 as compared to <200 nA typical TDI
 - 36 pA/mips \Rightarrow >2x10⁵ particles in sensor 2 \Rightarrow >10⁷ particles assuming an area of 10x10cm²





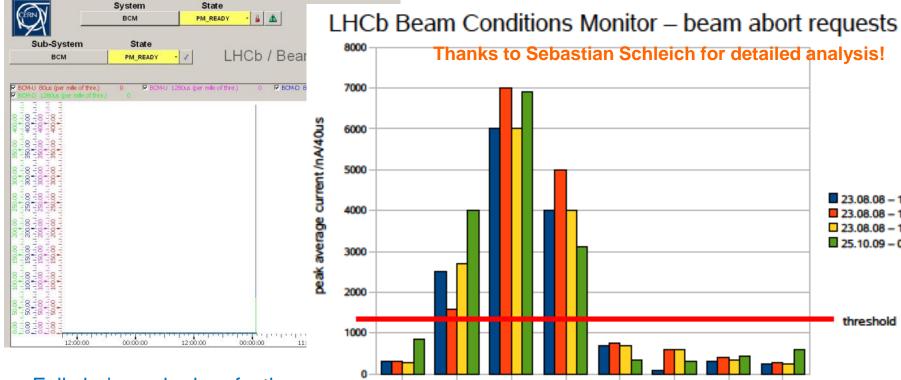
BCM response



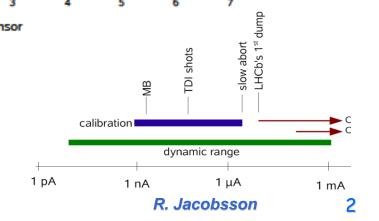
23,08,08 - 11:24

23.08.08 – 12:11 23.08.08 – 12:47 25.10.09 - 00:46

threshold



- Full chain worked perfectly:
 - Dump at point 6 with kicker magnet
 - Automatic injection inhibit
 - Automatic PM processing
 - Rearming after discussion with LHC
 - Confidence in dump level and functioning but not to be repeated routinely...



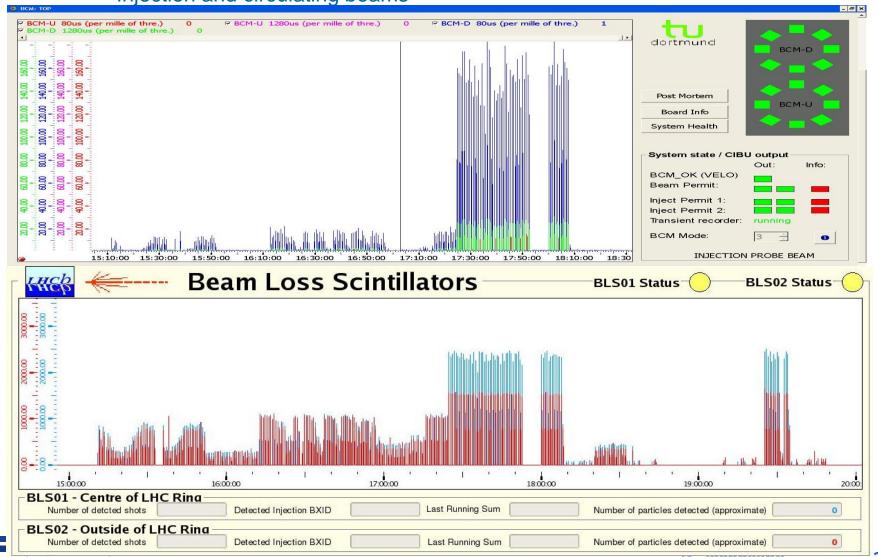


Beam Loss Scintillator and BCM



High resolution (25ns/50ns) and high sensitivity background monitor

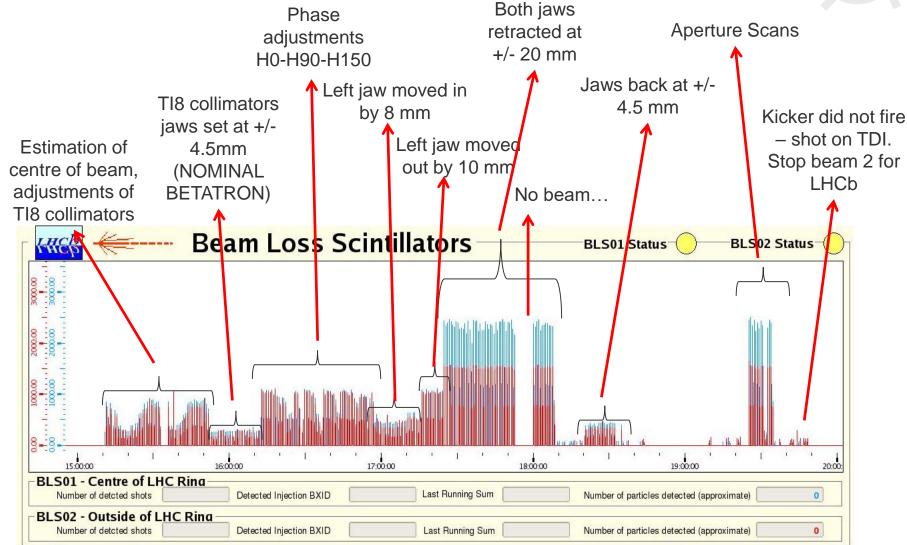
Injection and circulating beams





Beam Loss Scintillator



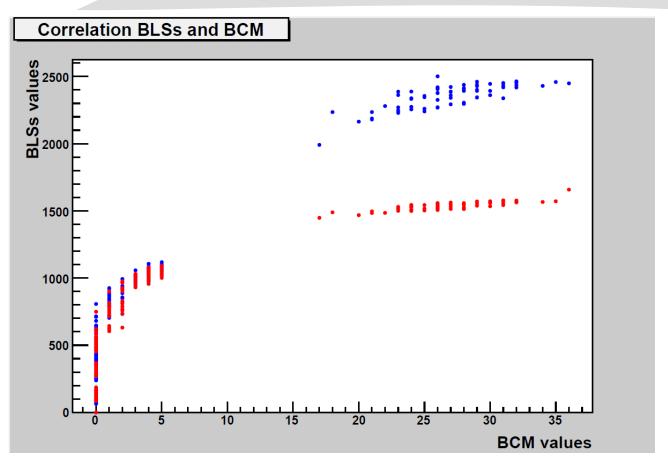


Thanks to Federico for detailed analysis!



BCM/BLS correlations





- Sector Test allowed setting proper gain
- Very good correlation between BCM and BLS
- Higher sensitivity to see background changes and variations