# BCM1F TDCs status

Roberval Walsh DESY

FCAL–CMS weekly meeting 21.11.2011

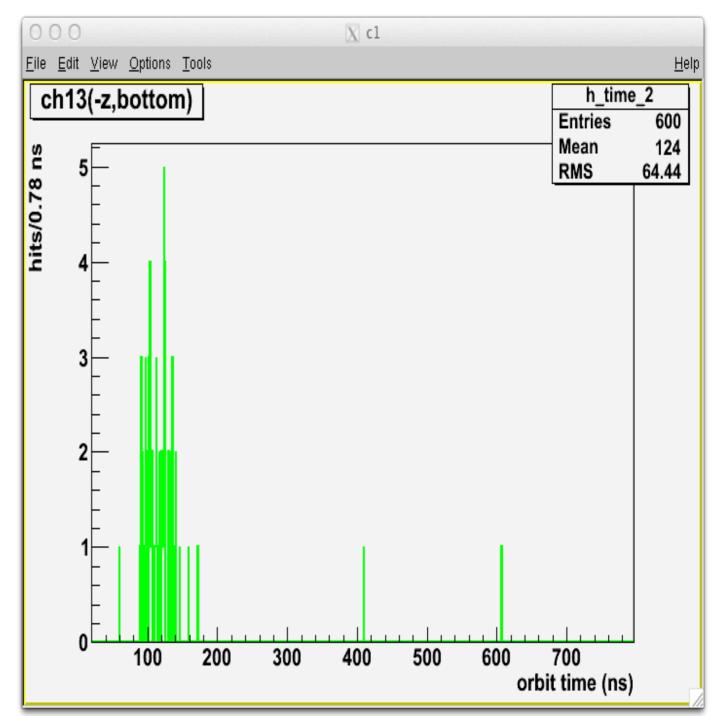
Monday, 21 November 11

#### Technical stop activities

- Implementation of Hans' features to veto hit and start signals via lookup table done successfully. Veto of scalers during block transfer not implemented yet.
- Investigation of possible VME issues. Meeting with Christoph Schwick.
  - [ERR:TDC\_V767\_CAEN-BLTRead\_Output\_Buffer] Read Error! and mismatch of number of readout bytes Seemed very strange to him.
  - Looking the logfile of ctrl3 found BRMBCMCTRL3 kernel: a2818: Timeout on RX where a2818 is the PCI card. Message correlated with [ERR:TDC\_V767\_CAEN-BLTRead\_Output\_Buffer] Read Error!
  - Christoph gave a few suggestions: Upgrade firmware of PCI and Controller (+optical driver); maybe change the fibre and/or PCI card.
  - Firmware upgrade does not seem trivial, straightforward. Exercise started with test crate in B186 together with Elena and Arkady.

## Noise in channel 13

- Strange broad peak in ch13 in sync with orbit trigger.
- Disappears when discriminator threshold is lowered below -12mV.
- No sign of such peak with ADC (checked by Elena) or in the scope (cheked by Wolfgang)
- Rate ~0.4 Hz



#### Status last week

- Readout running since 17 November.
- Errors (see below) only between 14:14 and 14:21. Since then, all running smoothly.

@Readout: Number of bytes = 10002, different than expected = 10000. Skipping these data! UNIX time=1321535662 @Readout: Number of bytes = 65538, different than expected = 65536. Skipping these data! UNIX time=1321535910 @Readout: Number of bytes = 65538, different than expected = 65536. Skipping these data! UNIX time=1321536075 @Readout: Number of bytes = 65538, different than expected = 65536. Skipping these data! UNIX time=1321536150 @Readout: Number of bytes = 2, different than expected = 65536. Skipping these data! UNIX time=1321536431 [ERR:TDC\_V767\_CAEN-BLTRead\_Output\_Buffer] Read Error! Readout time = 15.0024 s UNIX time=1321536501

### Heavy lons 2011

