

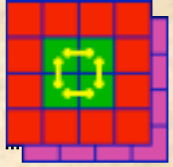
Visit to CERN etc. 6–8 May 2003 (1)

■ **Trigger/DAQ Steering Group**

- ▲ TDR now progressing fairly well, new draft (*7 May*) available
- ▲ ROB-on-ROD option had ‘reappeared’, but detector feedback was all negative. Therefore TDSG voted unanimously to kill it.
- ▲ Many other items ...

■ **Discussion with TileCal people (Rupert Leitner etc.)**

- ▲ PRRs for long cables (now before tendering, second before purchase) — same specification as LAr cables
 - Can we possibly order our short cables at the same time?
- ▲ Look at TileCal pulses with prototype cables (*they have some already*) and prototype receiver in test beam?
 - Contacts: Richard Teuscher, Tomas Davidek, Bob Stanek
 - 12–18 June (LAr week 16–20 June), 3–9 July, 23–30 July, 20–27 August



Visit to CERN etc. 6–8 May 2003 (2)

■ Discussion with Beniamino di Girolamo

▲ Draft document on commissioning

- Requirement to read out both calorimeter and trigger RODs at the same time, in order to integrate Preprocessor, is now recognised and a solution will be provided

■ Information from Bill Cleland

▲ Unipolar TileCal pulse into receivers produces bipolar pulse after transformers — is it acceptable?

- Negative undershoot has time constant of $\sim 10 \mu\text{s}$
- Equal areas mean that a pulse of e.g. 200 GeV has an undershoot with a peak amplitude of $\sim 1 \text{ GeV}$
- Need more information on pulse rates and amplitudes, but seems to be ok?

TileCal Pileup Average Cell Energy

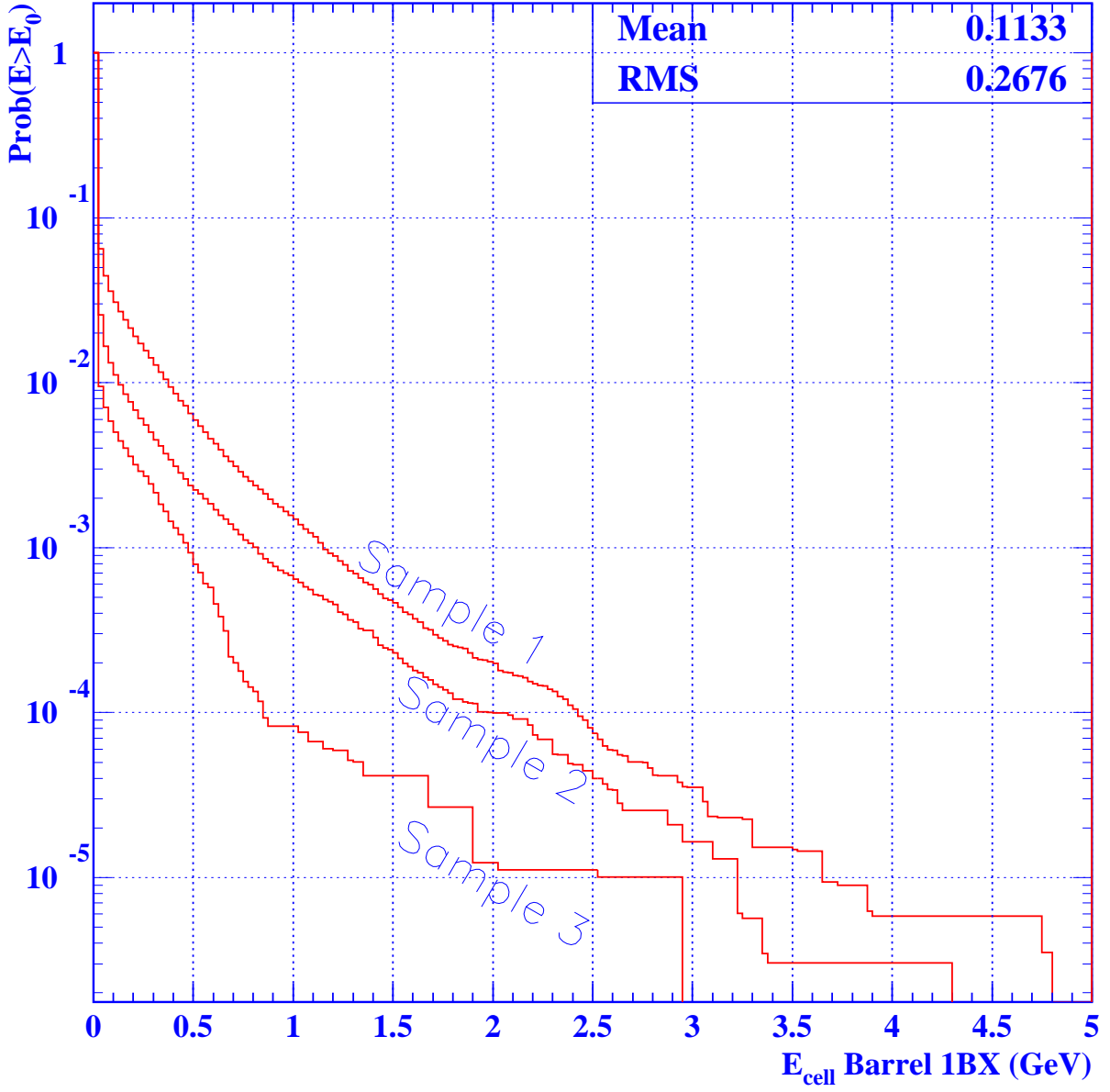


Figure 7: Probability of energy deposits in the TileCal Barrel. The distributions are for one bunch crossing at nominal luminosity, with an average of 23 MB events per crossing.