WP1

David Ward

- Work on last year's data
- 2006 test beam
- Software preparedness

Feb 2005 data

- UK has done most of the work in looking at these data. Augurs well for this year's data analysis, but need to make sure we maintain our position.
  - Data/MC comparisons (DRW): data from incomplete ECAL has already proved useful. Problems with Geant 4 unless tracking cutoffs really low. Fixed in Geant4.8.0. Now have reasonable description of 1-3 GeV electron showers.
  - Beamline simulation (FS): Inclusion of material crucial for data/MC agreement (lesson for CERN/FNAL).
  - Studies of position/angular resolution (A-MM) have been reported. Important basis for further work using 2006 data.

Test beam in 2006

- Uk has taken a leading role in defining tasks ("Nigel's list"), and in signing up to do them. e.g.
  - George in DESY this week implementing monitoring code with HCAL experts.
  - Chris T-A has shown work on identifying bad channels and VFE calibration.
  - Preparation for MC production.
- Shift coverage – about 5 UK people have signed up already for DESY and similar for the CERN-ECAL shifts. I know others are planning to go.
- We seem to be pulling our weight.

Software preparedness for TB

- Native → LCIO raw data conversion working, stable, being used for DESY data. Will run at DESY.
  - Issue of separate trigger and event records still outstanding.
- ECAL pedestal subtraction – on-the-fly in Götz's code (being brought into standard code release by Roman).
- Likewise, calibrations, mapping information, code to use them.
- AHCAL – S.Schmidt working in same framework.
- Aim is to run "reconstruction job" routinely ~1hr after data taken → calibrated zero-suppressed hits for analysis. Basically the pieces exist, but we are not quite there yet.
- I feel we are too reliant on Roman to integrate all this and make it all happen. Good to expand base of expertise and factor off a few tasks to others (in UK?). Topic to discuss at Montreal and after.