Minutes of the 162nd Energy Calibration Meeting held on 4 September 1998

1 Hardware status

The NMR's in the injection dipoles were already replaced on 3 August. All of the NMR's in normal dipoles were replaced before Wednesday 2 September (16 NMR's as in 1997, and 4 NMR's in the spectrometer). At 45 GeV, 3/4 spectrometer probes and all but one in the string at point 5 in the 1997 positions were locking.

2 Scheduling of remaining MD time

As discussed at the last meeting, the priorities for the week 36 machine development are to make one thorough attempt at 60 GeV (first 24 hour slot) and to measure 4 or even 5 points in the same fill (second 24 hour slot). Both of these measurements should be with the 60/60 optics with solenoids off.

There should be another attempt at a multipoint fill at the end of week 39/start of week 40 (60/60, solenoids off).

A long fill should be scheduled in between with the 102/90 optics, solenoids on, to verify the dipole rise model using 16 NMR's, and then at the end to try to measure a point at 50 GeV with the 102/90 optics.

The balance of energy calibration MD days used would then be 2 days in June, 1 in July, 2 in week 36, 1 during physics and 1 in week 39/40, i.e. a total of 7 days.

3 Flux loop measurements

No flux loop measurements have been performed since the beginning of July, because too few NMR's have been locking at low energy.

4 Other data needed for the energy analysis

Joerg Wenninger will put the polarisation calibration data from previous fills and the coming MD into the database. He is also processing the horizontal corrector data. The central frequency measurements this year need more analysis.

5 Paper on 1997 data

A small number of people then stayed for a gory discussion of the paper draft. Some areas need surgery to clarify the argument. In addition, Alain Blondel asked questions about the use of the flux loop, as a result of which more thinking needs to be done on whether the slope fitted through the flux loop data should be the same as the sloop fitted to the polarisation data for each probe.

Peter Renton had suggested that the 1996 energies and error should be revised. After discussion, it was concluded that this would be premature. It may be sensible to fit the 1996, 1997 and 1998 data all together, in which case all the energies would be revised, but it was thought unwise to revise 1996 twice in short succession, and so the files and error should be unchanged for now.

6 Next meeting

The next meeting will be on Friday 11 September at 15:00 in the Pavillon.

Pippa Wells, 10 September 1998