Minutes of the 98th Energy Calibration Meeting held on 05 July 1996 at 10:30

The 10:30 part of the meeting discussed 1996 issues:

1 Phasing of the rf system – Ernst Peschardt

Ernst showed the results from measuring the phase etc. of the old and new RF units, as shown in the accompanying tables. Comparing the 95 and 96 measurements for units in points 2 and 6, they agree to within 0.2 cm. The voltage errors have been improved. One of the new units in point 2 has a 1.2 cm alignment error. For the new units in points 4 and 8, the largest alignment error is –1.4cm (the sign meaning the unit is too close to the IP).

The asymmetry in the position of unit 233_2 wrt Cu units in points 2 and points 6 is 0.25 cm. This will be used by Mike Hildreth to derive an uncertainty in the IP dependent corrections for the 1995 scan due to a possible path length difference between points 2 and 6 for electrons and positrons.

Ernst also showed a slide with a glossary of RF terminology.

On Monday night, LEP ramped a single beam to 82.03 GeV, with 1431 MV of rf. The quantum lifetime was as expected. Currently just 2 cavities have small problems.

2 Logging database – Ronny Billen

Ronny reviewed the status of quantities in the logging database. The majority of quantities are now operational, with the following main points to note:

- The new NMR probes have not yet been implemented
- The new temperature probes are not yet installed. The extra precision for existing probes was implemented shortly after the meeting.
- The main bends and wigglers are not working (followed up after the meeting)
- The watchdog now has updated tolerances, but alarms are not yet taken seriously by the PCR shift crew (who have more serious problems just at the moment! For example, the logging database was locked for one Z fill, but the values may be recovered from the measurement database. When LEP enters a more stable running state then we must take these alarms more seriously).

3 Next Meeting

Friday 12 July... time and place to be sorted out.

Pippa Wells, 3 July 1996.