Minutes of the 150th Energy Calibration Meeting held on 27 February 1998

1 RF corrections for Z running

Mike Hildreth has found an error in the treatment of the RF corrections for the Z running. This explains the poor agreement of Qs for those data. Fixing the mistake only affects the energies in L3 (where some cavities were not logged for the first part of the running). L3 have been informed.

2 Main bend dipole currents

Joerg Wenninger has checked the main bend dipole currents. These were only properly logged from fill 3950 on 20/8. There is a long term drift of the currents. In addition, there occasional errors in the bend modulation sequence which causes a fill with the current too high or too low by 1A. These fills are seen to have atypical initial energies.

Action: A volunteer should be found to check the values of the NMR in the reference dipole to verify that fills with strange energies earlier in the year can be explained by strange values of the dipole currents.

3 Flux loop tests in the ISR tunnel

Enrico Bravin showed first results from the flux loop in the LEP test dipole in the ISR tunnel. In his plots, NMR1 is on top of the vacuum chamber below the field plate. This is equivalent to the position of NMR's in the LEP tunnel, and gives a gradient of 1.0015 when fitting for NMR field as a function of flux loop field. NMR's 2, 3 and 4 are inside the vacuum chamber at different positions along the magnet.

The residuals from a straight line fit show similar excursions to those from fits to the LEP flux loop data. Several points very close together result in a local rise, again as seen in the LEP data.

4 Preliminary errors for Moriond

The status of the error analysis was reviewed, and should be finalised in the next meeting.

5 Next Meeting

The next meeting will be on Friday 27 February at 14:00 in the Pavillon.

Pippa Wells, 6 March 1997