Minutes of the 133rd Energy Calibration Meeting held on 18 July 1997

This meeting was to discuss the status for the 1997 running. In general everything looks in good shape. There are some measurements to be done and decisions to be made in the next week - see below.

1 RF measurements

Ernst has finished the phasing of all the RF cavities. There were no big surprises in alignments. Mike Hildreth will look at the data in a bit more detail. Mike also has to reposition some of the copper RF in point 2 in the model to bring it into line with reality. The calibration of forward and reflected power is an outstanding request from last year, and should be done parasitically on physics time (forward) or time with no beam (reflected).

2 Logging status

Ronny sent a report on the logging. The data base is upgraded as planned, and all programs are recompiled and linked with up to date versions. Noted here are points where work or checking is needed: The watchdog program is using 1996 criteria, so if someone thinks changes are needed they should tell Ronny. Although all the new RF modules are in the database, not all have been seen to be operational yet. The reference magnet NMR was reported as fixed by Enrico in the meeting. Numbers related to collisions have still not been seen in action. The new orbit sawtooth information is being worked on in collaboration with Joerg/Anke. The railway current logging is not yet operational - Enrico is logging it privately for now.

3 Flux loop/NMR

Joerg Wenninger sent the message that about 12 flux loops have been done. The results are stable and consistent with 1996. There has still not been a flux loop with pauses to allow the NMR's to lock.

All 16 NMR's are working with the new mounts allowing precise repositioning from now on, and with radiation hard coils. Only one has so far been tested at 41 GeV, where it locked successfully.

4 K modulation

The planning is to test Joerg's new software in the next week, and then to try to measure the offsets during physics. A time estimate will be more clear once the procedure has

been established.

5 Central frequency measurement

This has not yet been done this year.

6 Temperature experiment

The repeat of the heating/cooling temperature experiment was thwarted by the prompt arrival of beam.

7 Cooling and Bend modulation

The software for the new cooling scheme is in place, but must be tuned during the first few fills at 92 GeV. A first guess for a suitable bend modulation amplitude can be made based on last year, but may need to be changed once the effectiveness of the cooling has been checked.

8 Polarisation measurements

Massimo said that there will be a first calibration with the 90/60 optics at 45 GeV from end of fill MD's during the Z running. It is expected that there will be MD in week 33, and there will be a request for a double shift on the 60/60 polarisation optics. We will then see how far we progress in that time.

Pippa Wells, 18 July 1997.