Minutes of the 163rd Energy Calibration Meeting held on 11 September 1998

1 News/planning from/of MD's

There were two MD's during the week 36/37 period. In the first there was another unsuccessful attempt to achieve significant polarisation and an energy measurement at 60 GeV. In the second, measurements at 41,peak-2 and 50 GeV were made in the same fill, which provides the second three point fill of this year.

Guy Wilkinson showed the result of fitting the two 3-point fills from 1998 individually, and also the biases from the full set of 1998 flux loop measurements. There was a somewhat drawn out discussion of how to evaluate the banana content of three point fills compared to four point fills. But it seems clear that the latest fill shows a different trend for the 45 GeV point w.r.t. neighbouring points, compared to the fills in 1997.

For future MD's, we should therefore put even more emphasis on achieving a four point fill. Massimo Placidi pointed out that after the experience of the last MD, it is advisable to have the next attempt as soon as possible in the hope that the set points for 50 GeV will still be valid.

In view of this we will request a day of polarisation measurements on the last Sunday before the week 39 shutdown. This MD should START with a flux loop measurement at 6am.

We would like a measurement on the physics optics, 102/90, with solenoids on, during week 40, once the machine has stabilised after the SPS switch to lead and the RF interventions of week 39. Whether invest an extra 12 hours of our energy calibration time budget to also studying the dipole rise in this fill depends somewhat on the success of the four point attempt.

We would also like a second attempt at a four point fill during the MD of week 42.

It was noted that the Z running is likely to be in week 43, after the MD period.

2 LEPC practice talk

Guy Wilkinson showed the plots he will be presenting to the LEPC next Tuesday. New w.r.t. the March LEPC:

- The 1997 results are now final.
- There are first polarisation and flux loop results from 1998. The flux loop results look particularly encouraging.
- There are data from the spectrometer to show the progress with the phase 1 setup.
- There are first results using the 1997 data to infer the beam energy from radiative return events.

3 Next meeting

The next meeting will probably be on Friday 25 September at 15:00 in the Pavillon.

Pippa Wells, 11 September 1998