MINUTES OF THE 121st MEETING OF THE ENERGY CALIBRATION WORKING GROUP (part related to 93/94/95 energies)

held at CERN on February 21, 1997

Short term correlation between Xarc in a fill (G.Wilkinson)

Guy observed little correlation anc oncluded that either the short term resolution is inadequate to see long term trend or the short term variation is indipendent of lon term trend.

Checks on dipole model (M.Koratzinos)

After removing the fill 2933 which had an undocumented bending modulation and redone the 2D rise model optimization the average residual between the 6 BOF-EOF fills is down to 1.1 Mev (rms 1.2 MeV).

He compared the Bending-modulated fills with the non BM fills and observed that the importance of the rise due to temperature effects is relatively more important than the rise due to trains for the BM fills.

The so called 'Tuesday' model is now able to include BM fills.

BOF-EOF fills revisited (P.Renton)

Peter checked the 6 BOF_EOF fills of 95 and found that while he agrees on what has been obtained by Mike and Angelika on the average residual and rms after applying tide,Hcorr and 2T corrections (i.e. ~1 MeV with 0.5 Mev rms) he gets a value of the average residual after applying the parasitic current rise correction consisten with 0 (0.3 with and rms of 0.6 MeV).
In the following discussion a few remarks were made :

- Peter fit smoothens the data and is intrinsically bidimensional while Mike's one is based on sampling from projections of a bi-dimensional plot (axis Tphysics, Tday)
- Mike's Tphys and Tday corrections are applied as two correcting factors
- In Peter's parametrization the tday and Tphys dependence are uncorrelated and by the way the functional form is defined does not have a saturation term

It was agreed that, for next meeting, Peter and Guy will try to reproduce the "histogram' parametrization in the Oxford model to cross-check Mike's result. Peter also will try to improve the functional form to effectively introduce a saturation behaviour.

Peter also tried to fit a scaling factor to the tide parameter (for the resonant depolarization measurements of 1995). He got as best value 0.93 ± 0.03 which agrees with what has been determined by Jorg using the BOM data.

Next meeting Feb. 28th.

Scriba:Tiziano Camporesi