MINUTES OF THE 125th MEETING OF THE ENERGY CALIBRATION WORKING GROUP

held at CERN on April 8th, 1997

Discussion on structure of draft

Following the release of the partial draft on the 1993-94-95 analysis several constructive comments were made.

The group decided to have a relatively long and detailed paper rather then a short one containing the physics results accompanied by a technical one.

Many comments were made in order to help streamlining the structure of the paper which at the moment need some 'harmonization' of the various contributions. The comments and suggestions have been noted and a new, hopefully more readable, draft in on the way.

Dipole model errors (M.Koratzinos)

Mike extended the 'Tuesday' model to cover all of the days of the week. The relatively large spread he observed for certain fills lead him to try to estimate the error from this kind of model by shifting cyclically the 'day' of the train excitation data recorded and see the variation of the final results.

Some discussion arose on how to estimate the spread observed between measurement and model for the 6 BOF fills. More to come on this.

Mike went through the list of error contributions which he estimated in the time-honored fashion used in 1993. Any model dependance from a given parameter is characterised by a certain specific energy uncertainty. The error is then calculated as the product of the difference of the average (lumi-weighted) parameter for physics runs and the average parameter value at the time of the resonant depolarization.

The errors evaluated this way look reasonable (see copy of transparencies)

The only error which needs a different treatment is the horizontal corrector correction:

in this case two models of the h.corr. effects based on rather different input assumptions are used to estimate the overall uncertainty. The relative large error from this source quoted at the meeting turned out to be related to problem of interpretation of the hcorr files and is now not worrisome any longer.

Next meeting Apr.. 18th.

Scriba:Tiziano Camporesi