MINUTES OF THE 131st MEETING OF THE ENERGY CALIBRATION WORKING GROUP

held at CERN on June 13th, 1997

Prescan RF status(M.Hildreth)

Mike has looked at the logging of the RF system for the 1995 prescan data. The quality is not too bad. From the comparison between the prescan loggings and the later runs it is evident that one cavity was not properly logged during the prescan. Mike is confident that he should be able to correct for this and provide an average RF correction whose error should be conservatively be less than ±10 MeV (CM energy).

During the following discussion it was pointed out that the lack of logging/starategy for vernier scans during the prescan period should not add more than 4-6 MeV to the cm energy uncertainty.

After discussing with the Eweak WG members present at the meeting it was agreed that the prescan periods can be covered by a single average peak energy: it can be taken equal to the average peak energies of ther est of the year (Warsaw) or computed from the mode if the loggings are not too erratic. The improtance of these data being mostly for aymmetry measurements an error below 20 MeV on the cm energy should fit the needs and shouldbe easily achievable.

Mike Koratzinos is undertaking to actually try to look at the data for the 93 and 95 prescans after getting from the experiments a list of the fills used in the analysis.

Cross checks on the final energy files for 93/94/95 (M.Koratzinos, G. WIlkinson)

A lot of work has gone into the cross checks of the technical parts of the code of Mike which is supposed to produced the final files. The check for 1995 is with respect to an indipendent code which is capable to produce Energy files in a similar manner to Mike's and which has been developed by K.Yip and G.Wilkinson. The current level of agreement is at worst 50 KeV on the average energy for 1995 (Peak -2) and much below for the other energies.

The check with respect to 1993 is performed comparing Mike's average energies with average energies produced in a completely independent and with a somewhat simpler modellization by P.Renton. Peter estimates the technical precision of his model to be at the 0.1-0.2 MeV level and this sets the threshold for the agreement expected. Presently the comparison yelds a difference of 0.22 MeV for P+2 and much less for P-2. Again a rather satisfactory check.

Mike has unified the code treating the three years (93, 94 95) to make sure that all fixes made for the 93 and 95 code benefit as well the 94 analysis.

The final files will be released once the cross comparisons MK-GW and MK-PR have been carried out also for the relative variations due to changes of the model prameters (like temp coeff. etc.) will be performed. The final files are expected for the beginning of week starting on Monday 16-June.

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