MINUTES OF THE 122nd MEETING OF THE ENERGY CALIBRATION WORKING GROUP

held at CERN on February 28, 1997

More on cross checks on BOF-EOF fills (G.Wilkinson)

Guy presented work done by him and Peter Renton on the dipole model cross checks and enhancements.

In particular they developed indipendently a model based on histogram sampling. IT is not the same as Mike's in that it tries to be truly bi-dimensional (works on data binned vs Tphys for a given bin of Tday rather than work on ovrall projection of the original tphys,tday space).

Peter also modified his functional fit to introduce correaltions between Tphys and Tday which should improve the agreement with the observed saturation effects (no details at the moment, but stay tuned !).

All of this 'models' gave average residuals which are compatible with 0 (see attached copies)

Guy also proved that the actual results are quite sensitive to the usage of the std DB NMR information or the special 'smoothed' NMR database provided by M.Geitz (the STD DB info contains istantaneous reading every 15 minutes, the smoothed DB has an average over 15 minutes of readings taken every two seconds).

In particular it looks like the STD DB data has much more fluctuation in it which seem at first sight to wash out most of the rise information when looking at the differntial hourly rises.

Mike K. will try to use the smoothed DB as well and check what happens to his model.

Checks on 1996 energies (G.Wilkinson and P.Bright-Thomas)

A major step forward in the understanding of the data has been performed by clearing some technical problems concerning the mapping of the private logging data from Enrico and the std DB info.

After that the picture Guy and Peter have is very consistent. They now agree that the fill 3599 shows a very odd behaviour. The error assumed so far covers all indeterminations related to this fill while the central values do not change appreciably. The improved understanding will be included in the note which is in preparation. See copies for details.

Next meeting Mar. 14th.

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