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Memo CP-C/348

DATE: August 10, 2004
TO: Distribution
FROM: V. McLane
SUBJECT: Angular distribution data
Re: Memo CP-C/346

I had forgotten to include the handling of coplanar data for particles on opposite sides on the incident beam. I had considered using the azimuthal angles 0 and 180 degrees, but a colleague thought this might be an unnecessary complication. Looking through the compiled data sets, I see this has been handled in some data sets by using negative angles. I think this is a good solution. Therefore, I propose that we allow negative angles for this purpose.

Also, a discussion of energy spectra and double differential data $d\sigma^2/d\Omega dE$ should be included. One issue that occurs to me for the case of double differential data is that we should allow the use of the headings ANG1, E1, *etc.*, without the use of ANG2, E2, *etc.*, for example for the following case:

REACTION (z-s-a (P , 2N) z-s-a , , DA/DA/DE , N/N/N)

Would need to use in the data section to correlate the angle with the correct energy:

ANG1 ANG2 E1

Another issue is whether we should drop the quantity DA/CRL altogether, since it seems that the data are well specified by the particles given in SF7, that is, the energy or angle of a correlated pair is given there as the sum of the 2 particles.

I will draft a new LEXFOR entry. In the meantime, please let me know if you have any strong feelings on any of these questions.

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