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Memo CP-C/282

DATE: May 15, 2001
TO: Distribution
FROM: V. McLane
SUBJECT: Spin-spin data

The current accepted convention for spin-spin data is spins anti-parallel – spins parallel. In looking at the EXFOR data, all but 2 data sets are coded this way (one area 1 and 1 area 2). I am updating the LEXFOR Manual to reflect this, and the area 1 data set. I have also updated the area 2 data set and will send it to NEA Data Bank.

Definitions: $\sigma_{SS} = (\sigma_{\uparrow\downarrow} - \sigma_{\uparrow\uparrow})/2$ Spin-spin cross section
 $\Delta\sigma = \sigma_{\uparrow\downarrow} - \sigma_{\uparrow\uparrow}$ Difference cross section
where $\sigma_{\uparrow\uparrow}$ = cross section for incident-projectile and target spins parallel
 $\sigma_{\uparrow\downarrow}$ = cross section for incident-projectile and target spins anti-parallel

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