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**Memo CP-D/394**

**Date:** 12 May 2004  
**To:** Distribution  
**From:** O. Schwerer

**Subject:** **LEXFOR entries on Polarization and on Thick Target Yields**

Reference: Memos CP-C/339 and 334

**1. Polarization**

In memo CP-C/339 the quantities

31 , POL/DA , , TAP  
32 , POL/DA , , TAP  
33 , POL/DA , , TAP  
31 /PAR , POL/DA , , TAP  
32 /PAR , POL/DA , , TAP  
33 /PAR , POL/DA , , TAP

are introduced for Tensor Analyzing Power , iT31, etc., in spherical coordinates.

The LEXFOR entry on Polarization explains explicitly coefficients 20, 21, and 22 (and only these). Therefore the new quantities should be added also to LEXFOR with appropriate explanation of the additional coefficients.

**2. Thick Target Yields**

The new LEXFOR page on Thick Target Yields (submitted in CP-C/334) does no longer contain the quantity

, SIG , , TT Thick target cross section (units mb or equivalent).

I believe that this quantity must be kept, even more so since additional quantities with "TT" in SF8 (but otherwise identical to an existing quantity) keep coming up (partly without submission in a memo) which have the same dimension as their basic counterpart (as is the case with , SIG , , TT and ,SIG). Probably the LEXFOR entry should mention that similar to , SIG , , TT various differential quantities may also be introduced with TT in SF8.

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