

Clarifications on Polarization quantities

(Action A34)

1. Are the following quantities in dictionary 36 still valid?
LS/SEQ, POL/DA, , D
PAR, POL/DA, , TAP
SL/SEQ, POL/DA, , D
2. See the memo below.

Memo CP-D/320

26 April 2001

From: O. Schwerer

To: Distribution

Subject: Polarization

Reference: CP-C/271 (Proposed LEXFOR entry)

CP-C/272 (List of quantity codes for dictionary 36)

We ask for clarification of the following questions concerning the proposed new quantities.

1) Partial Tensor Analyzing Power, codes in CP-C/272

What is the difference between

20/PAR,POL/DA,,TAP and

PAR/20, POL/DA,,TAP ?

Or are they equivalent?

Both are included in CP-C/272. I cannot see the difference from the code expansion, and these quantities are not mentioned in the section on Analyzing Power in the LEXFOR entry in CP-C/271.

The same question arises also for the codes with 21/PAR and 22/PAR.

2) Tensor Analyzing Power A_{yy}

The LEXFOR entry in CP-C/271 states that Tensor Analyzing Power is to be coded as

NN,POL/DA,,ANA

However, in CP-C/272, this same code is expanded as "Spin correlation parameter", whereas here the only quantities expanded as "Tensor Analyzing Power" are those for spherical coordinates having **TAP** in SF8.

3) General

The LEXFOR entry in CP-C/271 does not explain all the quantities listed in CP-C/272 (at least, for many of them there are no coding examples).

Also, it would be useful in many cases if the coding examples would include the independent variables required (1 or 2 angles, polarization of beam, etc.)