

MEMO CP-A/144

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To: **Distribution**
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Subject: **TCC code plus LEXFOR page**
(Reply to Memo CP-D/364)

We propose to input in Dictionary 30 new code-

TCC (total charge-changing cross sections)

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LEXFOR

Total Charge-Changing Cross Section

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Definition: the sum of all energetically possible nonelastic interactions minus the neutron removal cross section.

Reaction Coding: TCC in SF3

Examples (Target(28-Ni-52,TCC),,SIG)

(Target(6-C-12,TCC),,SIG)

Sum-rules: $TCC = \sigma(\text{total}) - \sigma(\text{el}) - \sigma(\text{nr})$,

Where- $\sigma(\text{total}) = \text{elastic plus nonelastic cross section}$

$\sigma(\text{nr}) = \text{only neutron removal cross section}$

Units: a code from Dictionary 25 - MB, etc.

References

1. B.Blank et.al. , Z.PHYS.A, 352, 69, 1995
2. A.N.Golovchenko et.al, Phys.Rev. C, 66, 014609, 2002