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Brookhave Nat. leb. DAT324-0

MEMO CP/C-45

Date:

September 22, 1978

From:

V. McLane

New Process Codes XN and XP (Proposed at 3rd NRDC Meeting, Paris). Subject:

It is proposed that where mass or element distributions of produce nuclei have been measured and presented as a function of the number of outgoing nucleons (i.e. neutrons and protons), that these be coded by introducing the process codes XN and XP in SF3 of the REACTION keyword:

> XN = variable number of neutrons XP = variable number of protons

The numerical values of the multiplicity factors "X" and "Y" would be entered into the data Tables under the data-heading keywords N-OUT and P-OUT, respectively.

This formation is only permitted if all reaction subfields but SF3 and SF4 remain unchanged.

Proposal:

Add to Dictionary 24 (Data-heading keywords): 1.

N-OUT number of emitted neutrons (Family I) P-OUT number of emitted protons (Family I)

Add to Dictionary 30 (Process) 2.

XN - variable number of emitted neutrons

XP - variable number of emitted protons

- Add to EXFOR under REACTION SF3: 3.
 - in cases where mass or element distributions of product nuclei have been measured and the Z and/or A value acts as an independent variable, a variable sum of outgoing neutrons and protons may be indicated in SF3 using the process codes XN, YP or XN + YP. The numerical values of the multiplicity factors X and Y are entered in the data Table under the data-heading keywords N-OUT and P-OUT, respectively. See LEXFOR Reaction Products.
- Add to EXFOR under REACTION SF4: 4.
 - c.) When SF3 includes the codes F, X, XN or XP, ----

Also required will be an addition to the LEXFOR entry on Reaction Products which is being rewritten.

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