

1983-11-30

To: Distribution

From: *K. Okamoto, H.D. Lemmel*
K. Okamoto, H.D. Lemmel

Subject: (alfa,n) thick target yields

Reference: Report AERE-R-10502 and others

(alfa,n) thick target yield data are essential for nuclear fuel and safeguards.

- (alfa,n) thick target yields compiled in EXFOR earlier have the units PART/MUAHR (= particles per micro-Ampere hour) or MUCI/MUAHR (= micro-Curie per micro-Ampere hour). We now wish to compile data for the same REACTION with the unit "neutrons per incident alfa-particle". We propose to introduce in Dictionary 25 the unit code

✓ N/PART = neutrons per incident particle

Dimension: No. This unit would apply to different incident particles. In the dictionary we would not enter a conversion factor, because conversion to the other units mentioned above is not a trivial multiplication by a factor.

- For (alfa,n) thick target yields there are also neutron energy spectrum data to be compiled. For such data the quantity TTY/DE exists in Dictionary 36, but so far no unit was provided for it. We propose to introduce in Dictionary 25 the unit code

✓ N/PART/MEV = neutrons per incident particle per MeV

✓ Dimension: 1/E. The same dimension code must be entered with the quantity TTY/DE in Dictionary 36.

May we assume your approval unless we receive an objection in due time. (Explicit approval should not be necessary as the proposal is in line with existing unit codes.)

Clearance: J.J. Schmidt *J.J. Schmidt*

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20 December 1983

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EXFOR-Transtapes 3048 and D012 are being dispatched.

MERRY CHRISTMAS

AND

HAPPY NEW YEAR

G. Bush

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[Signature]

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