Helga's file

MEMO 4-C 2/89

To : See Distribution

From : H. Derrien and A. Schett

Subject : X-4 Action "Crouch's Fission Yield File"

21st June, 1977

1. Content of Crouch's File

All kinds of fission yields (cumulative, chain, independant, ...) of fission induced by : alpha, C-12, d, gamma, He-3, n, p.

The original version is in Crouch's compilation format and in arbitrary sorting order.

2. The conversion into NEUDADA format has been performed in order to permit :

(a) Sorting by means of the IBM utility program. The original sorting order is arbitrary and makes the use of the file difficult (sorting is necessary for producing user layout);

(b) Corrections of the file with the help of the CCDN standard correction program;

(c) Plotting of fission yields as a function of the mass of the fission products;

(d) X-4 exchange if required.

3. User layout which can be produced by CCDN :

(a) comments and tables interleaved sorted according to the hierarchies :

Ref, Z, A, A'
or Year, Ref, Z, A, A'
or LAB, Year, Ref, Z, A, A'
etc.
(see sample attached)

Distribution

Dr S. Pearlstein
Dr J.J. Schmidt
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Kammel
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(b) references, interleaved tables sorted according to the hierarchies :

Z, A, Q, A'
or Z, A, Q, kind of yield, A'
or Z, A, Q, En. of incoming part., A'
etc.
(See sample attached)

(c) Plots : Yield (%) = $f(A')$

4. Conversion to X-4

The responsability of E.A.C. Crouch concerning the fission yield compilation in the 4-Centre network should be clearly defined. Then, the CCDN will, with the final agreement of Crouch, convert regions 1, 3 and 4 data into preliminary X-4 and send them to corresponding Centres for inclusion in official X-4 (additional, X-4 prescribed information, have to be added); CCDN will convert region 2 data into official X-4.

However, the CCDN will not give high priority to this conversion, since :

- file already exists;
- service ensured by CCDN

Until the conversion is finished, requests for these data can be forwarded to CCDN.

5. CINDA Entries

CCDN will include the missing entries in CINDA for all areas.