

NJOY/GRAEGG-01 - 2 April 1993

Problems in Processing CD-113 from JEF-2.2

by

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NJOY(GRAEGG-01)

Studsvik Core Analysis

Date
1993-04-02
Your date

Our reference

Your reference

OECD NEA Data Bank
Att. Enrico Sartori
Le Seine-Saint Germain
12, boulevard des Iles
F-92130 Issy-les-Moulineaux
France


NUMÉRO :	435
CODE :	STUDSVIK
DATE :	7/04

Dear Mr. Sartori, ←

I use NJOY-91.38 for processing JEF-2.2 data. I have run many isotopes. For Cd-113 the program gives, however, an unterminated loop in SIGFIG. Version 89.62 of NJOY gives correct results for Cd-113. Therefore an error must have been introduced into the newer NJOY version.

A description of my findings and an input list are enclosed.

Yours sincerely,



Clas Grägg

input for Cd-113

```
0
6
*moder*
20 -21
*reconr*
-21 -22
*PENDE TAPE FOR 48-Cd-113 FROM JEF-2.2. njl.Cd-113 */
4846 1 0/
.001 0. 6/
*48-Cd-113 FROM JEF-2.2 */
0/
*broadr*
-22 -23
4846 4/
0.001/
293. 600. 900. 1500.
0/
*unresr*
-21 -23 -24
4846 4 1 1
293. 600. 900. 1500.
1.e10
0/
*thermr*
0 -24 -25
4846 4846 8 4 1 0 1 221 0
293. 600. 900. 1500.
0.02 4.0
*groupr*
-21 -25 0 26
4846 1 0 4 1 4 1 1
*48-Cd-113 FROM JEF-2.2 */
293. 600. 900. 1500.
1.e10
70
1.000000e-5 5.000000e-3 1.000000e-2
1.500000e-2 2.000000e-2 2.500000e-2 3.000000e-2 3.500000e-2 4.200000e-2
5.000000e-2 5.800000e-2 6.700000e-2 8.000000e-2 1.000000e-1 1.400000e-1
1.800000e-1 2.200000e-1 2.500000e-1 2.800000e-1 3.000000e-1 3.200000e-1
3.500000e-1 4.000000e-1 5.000000e-1 6.250000e-1 7.800000e-1 8.500000e-1
9.100000e-1 9.500000e-1 9.720000e-1 9.960000e-1 1.020000e+0 1.045000e+0
1.071000e+0 1.097000e+0 1.123000e+0 1.150000e+0 1.300000e+0 1.500000e+0
1.855
2.100000e+0 2.600000e+0 3.300000e+0 4.000000e+0 9.877000e+0 1.596800e+1
2.770000e+1 4.805200e+1 7.550100e+1 1.487280e+2 3.672620e+2 9.068980e+2
1.425100e+3 2.239450e+3 3.519100e+3 5.530000e+3 9.118000e+3 1.503000e+4
2.478000e+4 4.085000e+4 6.734000e+4 1.110000e+5 1.830000e+5 3.025000e+5
5.000000e+5 8.210000e+5 1.353000e+6 2.231000e+6 3.679000e+6 6.065500e+6
1.000000e+7
.10 0.025 .8208e6 1.4e6
3 1 *TOTAL*/
3 2 *ELASTIC*/
3 4 *INELASTIC*/
3 102 *CAPTURE*/
3 16 *N2N*/
3 221 *FREE THERMAL SCATTERING*/
3 251 *MYBAR*/
3 51 *DISCRETE INELASTIC*/
3 -53 *CONTINUED*/
3 91 *CONTINUUM*/
6 2 *ELASTIC*/
6 16 *N2N*/
6 221 *FREE THERMAL SCATTERING*/
6 51 *DISCRETE INELASTIC*/
6 -53 *CONTINUED*/
6 91 *CONTINUUM*/
0/
3 1 *TOTAL*/
3 2 *ELASTIC*/
3 102 *CAPTURE*/
3 221 *FREE THERMAL SCATTERING*/
6 2 *ELASTIC*/
6 221 *FREE THERMAL SCATTERING*/
0/
3 1 *TOTAL*/
3 2 *ELASTIC*/
3 102 *CAPTURE*/
3 221 *FREE THERMAL SCATTERING*/
6 2 *ELASTIC*/
6 221 *FREE THERMAL SCATTERING*/
```

