INDEX TO THE JEF-1
NUCLEAR DATA LIBRARY

VOLUME I

GENERAL PURPOSE FILE

JULY 1985

OECD
NEA DATA BANK
BANQUE DE DONNEES DE L'AEN
OCDE
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INTRODUCTION

The Joint Evaluated File Project (JEF)

The JEF project was started in 1981 to bring together European and Japanese effort in reactor physics and nuclear data measurement and evaluation in order to create a comprehensive reference database for fission reactor applications. Data for core and blanket performance, shielding, fuel recycling and plant decommissioning are included.

The JEF-1 file results from a scientific collaboration between laboratories in Austria, France, F.R. Germany, Italy, Japan, the Netherlands, Sweden, Switzerland and the United Kingdom. The project is supported by all member countries of NEA Data Bank, and the Data Bank is responsible for file assembly, simple data testing, and distribution of the data to users in these member countries.

New evaluation work and data testing against integral experiments is continuing in the participating countries, and it is expected the Data Bank will issue a revised version of JEF in 1987-B.

JEF-1 contains neutron interaction data for some 300 nuclides, in the General Purpose file covered by the present Index, and Special Purpose files for thermal scattering law data, fission yields, decay data, and photon interaction data. The special files will be indexed in a separate report to be issued later. JEF-1 uses ENDF-5 format; multigroup cross-section data can be prepared from JEF using either the NJOY system (R. Macfarlane et al., LANL) or the family of codes prepared by D.E. Cullen (IAEA). Copies of these and other processing codes can also be obtained from the NEA Data Bank.

Documentation of JEF will be provided to users in the JEF Report series. The full JEF-1 library is available in two versions, with resonance data given either in parameter or pointwise form, and contains more than 2 million records. Tape copies have been distributed to national laboratories participating directly in the project, and can be supplied on request to users who need the whole library.

Unless users have an in-house storage and retrieval system for ENDF data, we strongly recommend them to make selective data requests for only those materials required for current use.

Structure of an ENDF format Data Tape

A complete evaluated library is normally divided into many different tapes, each one containing evaluations for a number of materials (MAT) in order of increasing MAT numbers. The tape allocations for the JEF-1 materials are shown on page 5. A material is defined as either an isotope or a collection of isotopes. It may be a single nuclide, a natural element containing several isotopes, or a molecule containing several elements. The MAT numbers assigned to each material in the JEF-1 General Purpose Library are given on page 6.

The data for each material is divided into files (MF) and each file contains the data for a certain class of information, for example MF=2 for resonance parameter data and MF=3 for neutron cross sections. The files are then subdivided into sections, each containing data for a particular reaction type (MT). A full explanation of the different MF and MT numbers is given on page 8 and 9 respectively.

Availability of JEF data

JEF data is available only to scientists in Data Bank member countries. Users are asked to treat the JEF-1 data and documents they receive as confidential.
REQUESTING JEF DATA

JEF data is available from the NEA Data Bank to scientists in member countries. The full library, including Special Purpose files, contains over two million records. Although copies of the full library may be useful to laboratories with their own ENDF format data storage and retrieval system, we recommend selective retrievals of only those materials required for current use. The Data Bank holds a "frozen" copy of JEF-1 on disk, so that data received in answer to later requests will still be compatible with those acquired now.

Defining data requests

Requests should be defined as precisely as possible to avoid unnecessary manipulation of large amounts of data.

The following quantities can be specified:

- Tape number
- Tape category (parameter or pointwise)
- Material number or Z and A (isotopes)
- Reaction or MF and MT
- Energy range

Output formats

A choice of three output formats is available. Examples are presented on page 3:

1. Standard ENDF-5 format (See ENDF-102 for the format specifications)
2. Table display format (Useful for short data sets to be listed on printers). This format is restricted to cross section data (MF=3).
3. Computational format (one data point per record in the same format as the EXFOR computational format for experimental data also available from the Data Bank). This format is restricted to cross section data (MF=3).

For JEF data the format is defined as follows:

<table>
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<tr>
<th>column</th>
<th>quantity</th>
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<tbody>
<tr>
<td>1-3</td>
<td>Z</td>
</tr>
<tr>
<td>4-6</td>
<td>A</td>
</tr>
<tr>
<td>7-9</td>
<td>MT</td>
</tr>
<tr>
<td>17-17</td>
<td>Flag indicating evaluated data (=1)</td>
</tr>
<tr>
<td>18-19</td>
<td>MF</td>
</tr>
<tr>
<td>20-20</td>
<td>Interpolation law (0 for last point)</td>
</tr>
<tr>
<td>21-25</td>
<td>Library name (JEF-1)</td>
</tr>
<tr>
<td>26-33</td>
<td>Material number (right justified)</td>
</tr>
<tr>
<td>34-44</td>
<td>Neutron energy (eV)</td>
</tr>
<tr>
<td>45-55</td>
<td>Not used (reserved)</td>
</tr>
<tr>
<td>56-66</td>
<td>Negative of the Q value (eV)</td>
</tr>
<tr>
<td>67-88</td>
<td>Not used (reserved)</td>
</tr>
<tr>
<td>89-99</td>
<td>Cross section (Barn)</td>
</tr>
<tr>
<td>100-132</td>
<td>Not used (reserved)</td>
</tr>
</tbody>
</table>

Restrictions on the use and distribution of JEF-1

Users are asked to treat the JEF-1 data they receive as confidential. Neither the evaluated data themselves nor any multigroup data sets derived from them, nor the JEF documentation should be copied or communicated to any person outside your laboratory. If colleagues in other laboratories wish to have these or other JEF data, they should request them directly from NEA Data Bank.

Small-scale or partial plots of JEF data for single isotopes may be included in publications, where they should be referred to as taken from "the JEF-1 evaluated library", but systematic plots or any other form of publication likely to undermine the confidentiality of JEF is to be avoided. In case of any doubt about publication or quoting from JEF-1 data, please contact NEA Data Bank.
SAMPLE OUTPUT FORMATS

ENDFB format

| 8 01600-+ 3 | 1 585880+ 1 | 0 | 00 | 0 | 0 | 0 | 0 | 0 | 24040 | 3104 | 277 |
| 0.00000+ 0-9.00100+ 6 | 0 | 0 | 1 | 24040 | 3104 | 278 |
| 23 | 0 | 0 | 24040 | 3104 | 279 |
| 1.0625000-7 | 0.00000-7 | 1.100000+7 | 1.00000-7 | 1.110000+7 | 2.000000-4 | 44086 | 3104 | 280 |
| 1.120000+7 | 5.00000+7 | 1.130000+7 | 1.10000-7 | 1.160000+7 | 2.800000-4 | 24086 | 3104 | 281 |
| 1.200000+7 | 8.00000+7 | 1.250000+7 | 1.15000-7 | 1.300000+7 | 1.434200-4 | 24086 | 3104 | 282 |
| 1.380000+7 | 1.85000-2 | 1.400000+7 | 1.83000-2 | 1.460000+7 | 1.390000-4 | 24086 | 3104 | 283 |
| 1.500000+7 | 1.82000-2 | 1.500000+7 | 1.040000-2 | 1.500000+7 | 6.700000-4 | 24086 | 3104 | 284 |
| 1.650000+7 | 7.00000+7 | 1.700000+7 | 6.80000+7 | 1.760000+7 | 6.620000-4 | 24086 | 3104 | 285 |
| 1.800000+7 | 4.00000+7 | 1.860000+7 | 3.90000+7 | 1.900000+7 | 7.600000-4 | 24086 | 3104 | 286 |
| 1.900000+7 | 3.200000+7 | 2.900000+7 | 3.000000+7 | 0.000000+0 | 4086 | 3 | 0 | 288 |

Display format

JEF1

Material isotope: 4086
File number: 8
Reaction number: 104

No of data points: 23

Interpolation scheme between energies
range 1 23
law LIN-LIN

target residual
nucleus nucleus
state state
Q (eV) n E sig(x) E sig(x) E sig(x) E sig(x)
0 ALL 9.9010E+06

Computational format

| 8 16104 | 1 32JEF-1 | 4086 | 1.000000+7 | 0.0010E+08 | 0.0000E+00 |
| 8 16104 | 1 32JEF-1 | 4086 | 1.100000+7 | 0.0010E+08 | 0.0000E+00 |
| 8 16104 | 1 32JEF-1 | 4086 | 1.140000+7 | 0.0010E+08 | 0.0000E+00 |
| 8 16104 | 1 32JEF-1 | 4086 | 1.180000+7 | 0.0010E+08 | 0.0000E+00 |
| 8 16104 | 1 32JEF-1 | 4086 | 1.220000+7 | 0.0010E+08 | 0.0000E+00 |
| 8 16104 | 1 32JEF-1 | 4086 | 1.260000+7 | 0.0010E+08 | 0.0000E+00 |
| 8 16104 | 1 32JEF-1 | 4086 | 1.300000+7 | 0.0010E+08 | 0.0000E+00 |
| 8 16104 | 1 32JEF-1 | 4086 | 1.340000+7 | 0.0010E+08 | 0.0000E+00 |
| 8 16104 | 1 32JEF-1 | 4086 | 1.380000+7 | 0.0010E+08 | 0.0000E+00 |
| 8 16104 | 1 32JEF-1 | 4086 | 1.420000+7 | 0.0010E+08 | 0.0000E+00 |
| 8 16104 | 1 32JEF-1 | 4086 | 1.460000+7 | 0.0010E+08 | 0.0000E+00 |
| 8 16104 | 1 32JEF-1 | 4086 | 1.500000+7 | 0.0010E+08 | 0.0000E+00 |
| 8 16104 | 1 32JEF-1 | 4086 | 1.540000+7 | 0.0010E+08 | 0.0000E+00 |
| 8 16104 | 1 32JEF-1 | 4086 | 1.580000+7 | 0.0010E+08 | 0.0000E+00 |
| 8 16104 | 1 32JEF-1 | 4086 | 1.620000+7 | 0.0010E+08 | 0.0000E+00 |
| 8 16104 | 1 32JEF-1 | 4086 | 1.660000+7 | 0.0010E+08 | 0.0000E+00 |
| 8 16104 | 1 32JEF-1 | 4086 | 1.700000+7 | 0.0010E+08 | 0.0000E+00 |
| 8 16104 | 1 32JEF-1 | 4086 | 1.740000+7 | 0.0010E+08 | 0.0000E+00 |
| 8 16104 | 1 32JEF-1 | 4086 | 1.780000+7 | 0.0010E+08 | 0.0000E+00 |
| 8 16104 | 1 32JEF-1 | 4086 | 1.820000+7 | 0.0010E+08 | 0.0000E+00 |
| 8 16104 | 1 32JEF-1 | 4086 | 1.860000+7 | 0.0010E+08 | 0.0000E+00 |
| 8 16104 | 1 32JEF-1 | 4086 | 1.900000+7 | 0.0010E+08 | 0.0000E+00 |
| 8 16104 | 1 32JEF-1 | 4086 | 1.940000+7 | 0.0010E+08 | 0.0000E+00 |
| 8 16104 | 1 32JEF-1 | 4086 | 1.980000+7 | 0.0010E+08 | 0.0000E+00 |
| 8 16104 | 1 32JEF-1 | 4086 | 2.020000+7 | 0.0010E+08 | 0.0000E+00 |
STRUCTURE OF THE INDEX

The JEF-1 index is ordered by increasing atomic number or element. Within each element the isotopes are ordered by increasing mass number.

Each isotope (or material) begins with a title line:

Isotope name    Tape numbers    Material number

Two tape numbers are given, corresponding to the parameter and pointwise representations of the evaluations of the material. For example: Tape 3,13 means that the resonance region of the material is present on tape 3 in parameter form and on tape 13 in pointwise form.

In cases with no parametrization of the resonance region, indicated by "scattering radius" under MF=2, MT=151, the evaluations on both tapes are identical.

For each material, the index is ordered by increasing MF and MT numbers. The data on the magnetic tapes follow this order.
## TAPE ALLOCATION FOR JEF-1 FILES

<table>
<thead>
<tr>
<th>TAPE NO</th>
<th>Z RANGE</th>
<th>CONTENT</th>
<th>TYPE OF DATA</th>
<th>NUMBER OF RECORDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1 - 23</td>
<td>Light elements</td>
<td>Res.Param.</td>
<td>87 858</td>
</tr>
<tr>
<td>2</td>
<td>24 - 30</td>
<td>Structural materials</td>
<td>Res.Param.</td>
<td>136 813</td>
</tr>
<tr>
<td>3</td>
<td>31 - 47</td>
<td>Fission products 1</td>
<td>Res.Param.</td>
<td>117 779</td>
</tr>
<tr>
<td>4</td>
<td>48 - 59</td>
<td>Fission products 2</td>
<td>Res.Param.</td>
<td>114 866</td>
</tr>
<tr>
<td>5</td>
<td>60 - 65</td>
<td>Fission products 3</td>
<td>Res.Param.</td>
<td>112 833</td>
</tr>
<tr>
<td>6</td>
<td>66 - 83</td>
<td>Heavy elements</td>
<td>Res.Param.</td>
<td>81 102</td>
</tr>
<tr>
<td>7</td>
<td>90 - 92</td>
<td>Actinides 1</td>
<td>Res.Param.</td>
<td>21 125</td>
</tr>
<tr>
<td>8</td>
<td>93 - 94</td>
<td>Actinides 2</td>
<td>Res.Param.</td>
<td>26 668</td>
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<tr>
<td>9</td>
<td>95 - 99</td>
<td>Actinides 3</td>
<td>Res.Param.</td>
<td>70 953</td>
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<td>11</td>
<td>1 - 23</td>
<td>Light elements</td>
<td>Pointwise</td>
<td>88 986</td>
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<td>24 - 30</td>
<td>Structural materials</td>
<td>Pointwise</td>
<td>188 276</td>
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<tr>
<td>13</td>
<td>31 - 47</td>
<td>Fission products 1</td>
<td>Pointwise</td>
<td>256 193</td>
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<td>14</td>
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<td>Fission products 2</td>
<td>Pointwise</td>
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<td>Pointwise</td>
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<td>Actinides 1</td>
<td>Pointwise</td>
<td>175 189</td>
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<td>93 - 94</td>
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<td>Pointwise</td>
<td>130 901</td>
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<td>20</td>
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### Index: Volume 2

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<th>CONTENT</th>
<th>TYPE OF DATA</th>
<th>MF,MT</th>
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<td>Scattering law data</td>
<td>S(α,β)</td>
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<td>Radioactive decay data</td>
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<td>23</td>
<td>90 - 94</td>
<td>Unadj. fission yield data</td>
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<td>90 - 94</td>
<td>Adj. fission yield data</td>
<td>MF=8,MT=454</td>
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<td>Photon interaction data</td>
<td>MF=23,MT=27</td>
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### MATERIAL ALLOCATION (MAT)

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DEFINITION OF FILE NUMBERS (MF)

MF  Class of Data - Abbreviation used in the index

1. General Information - Information
2. Resonance Parameters - Res. parm.
3. Neutron Cross Sections - $\sigma(E)$
4. Angular Distributions of Secondary Neutrons - $d\sigma/d\theta$
5. Energy Distributions of Secondary Neutrons - $d\sigma/dE$
7. Thermal Neutron Scattering Law Data - $S(\alpha,\beta)$
8. Radioactive Decay and Fission Product Yield Data - Rdd, Fpy
9. Multiplicities for Production of Radioactive Nuclides
10. Cross Sections for Production of Radioactive Nuclides
11. General Comments of Photon Production
12. Photon Production Multiplicities and Transition Probability - mult(\gamma)
13. Photon Production Cross Section - $\sigma(E)(\gamma)$
14. Photon Angular Distributions - $d\sigma/d\theta(\gamma)$
15. Continuous Photon Energy Spectra - $d\sigma/dE(\gamma)$
16. Photon Energy-Angle Distributions
17. Discrete Delayed Gamma Rays
18. Continuous Spectra of Delayed-Photon Emission
19. Electron Multiplicities and Transition Probability Arrays
20. Electron Production Cross Sections
21. Electron Angular Distributions
22. Continuous Electron Energy Spectra
23. "Smooth" Photon Interaction Cross Sections - $\sigma(E\gamma)$
24. Secondary Angular Distributions for Photon Interaction - $d\omega(\gamma)/d\theta$
25. Secondary Energy Distributions for Photon Interaction - $d\sigma(\gamma)/dE$
27. Atomic Form Factors or Scattering Functions for Photon Interaction - Aff
28. Not used
29. Not used
30. Not used
31. Covariances of the Average Number of Neutrons per Fission
32. Covariances of Resonance
33. Covariances of Neutron Cross Sections
# Definition of Reaction Types

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| 2: Res. parm. | 151: scattering radius |
| 3: \( \sigma(E) \) | \( 1: (n, \text{tot}) \) | \( 2: (n, \text{el}) \) |
| | \( 4: (n, \text{inel}) \) | \( 16: (n, 2n) \) |
| | \( 24: (n, 2n+\alpha) \) | \( 51: (n, n') \text{1st level} \) |
| | \( 91: (n, n') \text{continuum} \) | \( 102: (n, \gamma) \) |
| | \( 104: (n, d) \) | \( 251: \mu \) |
| | \( 252: \xi \) | \( 253: \gamma \) |
| 4: \( \frac{d\sigma}{d\theta} \) | \( 2: (n, \text{el}) \) | \( 16: (n, 2n) \) |
| | \( 24: (n, 2n+\alpha) \) | \( 51: (n, n') \text{1st level} \) |
| | \( 91: (n, n') \text{continuum} \) |
| 5: \( \frac{d\sigma}{dE} \) | \( 24: (n, 2n+\alpha) \) |
| 12: Mult (\( \gamma \)) | \( 51: (n, n') \text{1st level} \) | \( 102: (n, \gamma) \) |
| 14: \( \frac{d\sigma}{d\theta}(\gamma) \) | \( 51: (n, n') \text{1st level} \) | \( 102: (n, \gamma) \) |
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12: multi($\gamma$)
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14: $\frac{d\sigma}{d\theta}(\gamma)$
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15: $\frac{d\sigma}{dE}(\gamma)$
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14-Si- 0

Tape no: 1,11  Material no: 4140

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# JOINT EVALUATED FILE INDEX

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<td></td>
<td>16: $(n,2n)$</td>
</tr>
<tr>
<td></td>
<td>22: $(n,n+\alpha)$</td>
</tr>
<tr>
<td></td>
<td>28: $(n,n+p)$</td>
</tr>
<tr>
<td></td>
<td>51: $(n,n')\text{lst level}$</td>
</tr>
<tr>
<td></td>
<td>63: $(n,n')\text{13th level}$</td>
</tr>
<tr>
<td></td>
<td>91: $(n,n')\text{continuum}$</td>
</tr>
<tr>
<td></td>
<td>102: $(n,\gamma)$</td>
</tr>
<tr>
<td></td>
<td>103: $(n,p)$</td>
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<tr>
<td></td>
<td>107: $(n,\alpha)$</td>
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<tr>
<td></td>
<td>251: $\mu$</td>
</tr>
<tr>
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<td>252: $\varepsilon$</td>
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<td>253: $\gamma$</td>
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<tr>
<td>4: $d\sigma/d\theta$</td>
<td>2: $(n,\text{el})$</td>
</tr>
<tr>
<td></td>
<td>16: $(n,2n)$</td>
</tr>
<tr>
<td></td>
<td>22: $(n,n+\alpha)$</td>
</tr>
<tr>
<td></td>
<td>28: $(n,n+p)$</td>
</tr>
<tr>
<td></td>
<td>51: $(n,n')\text{lst level}$</td>
</tr>
<tr>
<td></td>
<td>63: $(n,n')\text{13th level}$</td>
</tr>
<tr>
<td></td>
<td>91: $(n,n')\text{continuum}$</td>
</tr>
<tr>
<td>5: $d\sigma/dE$</td>
<td>16: $(n,2n)$</td>
</tr>
<tr>
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<td>22: $(n,n+\alpha)$</td>
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<td></td>
<td>28: $(n,n+p)$</td>
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<tr>
<td></td>
<td>91: $(n,n')\text{continuum}$</td>
</tr>
<tr>
<td>12: $\text{mult}(\gamma)$</td>
<td>91: $(n,n')\text{continuum}$</td>
</tr>
<tr>
<td>13: $\sigma(E)(\gamma)$</td>
<td>102: $(n,\gamma)$</td>
</tr>
<tr>
<td></td>
<td>3: $(n,\text{nonel})$</td>
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<tr>
<td></td>
<td>61: $(n,n')\text{11th level}$</td>
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<tr>
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<tr>
<td></td>
<td>61: $(n,n')\text{11th level}$</td>
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<td>14: $d\sigma/d\theta(\gamma)$</td>
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<tr>
<td></td>
<td>102: $(n,\gamma)$</td>
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<td>91: $(n,n')\text{continuum}$</td>
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<td><strong>18-Ar- 36</strong></td>
<td>Tape no: 1,11 Material no: 4186</td>
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<tr>
<td>1: Information</td>
<td>451: (Gen. info.)</td>
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<tr>
<td>2: Res. parm.</td>
<td>151: (n, res) + unres</td>
</tr>
<tr>
<td>3: ( \sigma(E) )</td>
<td>1: (n, tot)</td>
</tr>
<tr>
<td></td>
<td>4: (n, inel)</td>
</tr>
<tr>
<td></td>
<td>22: (n, n+a)</td>
</tr>
<tr>
<td></td>
<td>51: (n, n') 1st level</td>
</tr>
<tr>
<td></td>
<td>91: (n, n') continuum</td>
</tr>
<tr>
<td></td>
<td>103: (n, p)</td>
</tr>
<tr>
<td></td>
<td>107: (n, a)</td>
</tr>
<tr>
<td></td>
<td>251: ( \mu )</td>
</tr>
<tr>
<td>4: ( d\sigma/d\theta )</td>
<td>2: (n, el)</td>
</tr>
<tr>
<td></td>
<td>22: (n, n+a)</td>
</tr>
<tr>
<td></td>
<td>51: (n, n') 1st level</td>
</tr>
<tr>
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<td>91: (n, n') continuum</td>
</tr>
<tr>
<td>5: ( d\sigma/dE )</td>
<td>16: (n, 2n)</td>
</tr>
</tbody>
</table>

| **18-Ar- 38** | Tape no: 1,11 Material no: 4188 |  |
| 1: Information | 451: (Gen. info.) |  |
| 2: Res. parm. | 151: (n, res) + unres |  |
| 3: \( \sigma(E) \) | 1: (n, tot) | 2: (n, el) |
| | 4: (n, inel) | 16: (n, 2n) |
| | 22: (n, n+a) | 28: (n, n+p) |
| | 51: (n, n') 1st level | 69: (n, n') 21st level |
| | 91: (n, n') continuum | 102: (n, y) |
| | 103: (n, p) | 104: (n, d) |
| | 107: (n, a) | 108: (n, 2a) |
| | 251: \( \mu \) | 252: \( \xi \) |
| 4: \( d\sigma/d\theta \) | 2: (n, el) | 16: (n, 2n) |
| | 22: (n, n+a) | 28: (n, n+p) |
| | 51: (n, n') 1st level | 69: (n, n') 21st level |
| | 91: (n, n') continuum |  |
| 5: \( d\sigma/dE \) | 16: (n, 2n) | 91: (n, n') continuum |

| **18-Ar- 40** | Tape no: 1,11 Material no: 4180 |  |
| 1: Information | 451: (Gen. info.) |  |
| 2: Res. parm. | 151: (n, res) |  |
| 3: \( \sigma(E) \) | 1: (n, tot) | 2: (n, el) |
| | 4: (n, inel) | 16: (n, 2n) |
| | 17: (n, 3n) | 22: (n, n+a) |
| | 28: (n, n+p) | 51: (n, n') 1st level |
| | 71: (n, n') 21st level | 91: (n, n') continuum |
| | 102: (n, y) | 103: (n, p) |
| | 104: (n, d) | 107: (n, a) |
| | 251: \( \mu \) | 252: \( \xi \) |
| 4: \( d\sigma/d\theta \) | 2: (n, el) | 16: (n, 2n) |
| | 17: (n, 3n) | 22: (n, n+a) |
| | 28: (n, n+p) | 51: (n, n') 1st level |
| | 71: (n, n') 21st level | 91: (n, n') continuum |
| 5: \( d\sigma/dE \) | 16: (n, 2n) | 17: (n, 3n) |
18-Ar- 40

JOINT EVALUATED FILE INDEX

Mf

(Contd)

18-Ar- 40

Tape no: 1,11 Material no: 4180

91: (n,n') continuum
<table>
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<tr>
<td>1: Information</td>
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<tr>
<td>2: Res. parm.</td>
<td>151: scattering radius</td>
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</tr>
<tr>
<td>3: (\sigma(E))</td>
<td>1: ((n,\text{tot}))</td>
<td></td>
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<tr>
<td></td>
<td>4: ((n,\text{inel}))</td>
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</tr>
<tr>
<td></td>
<td>22: ((n,n+\alpha))</td>
<td></td>
</tr>
<tr>
<td></td>
<td>51: ((n,n')) lst level-</td>
<td></td>
</tr>
<tr>
<td></td>
<td>91: ((n,n')) continuum</td>
<td></td>
</tr>
<tr>
<td></td>
<td>103: ((n,p))</td>
<td></td>
</tr>
<tr>
<td></td>
<td>251: (\mu)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>253: (\gamma)</td>
<td></td>
</tr>
<tr>
<td>4: (d\sigma/d\theta)</td>
<td>2: ((n,\text{el}))</td>
<td></td>
</tr>
<tr>
<td></td>
<td>16: ((n,2n))</td>
<td></td>
</tr>
<tr>
<td></td>
<td>22: ((n,n+\alpha))</td>
<td></td>
</tr>
<tr>
<td></td>
<td>51: ((n,n')) lst level-</td>
<td></td>
</tr>
<tr>
<td></td>
<td>91: ((n,n')) continuum</td>
<td></td>
</tr>
<tr>
<td>5: (d\sigma/dE)</td>
<td>16: ((n,2n))</td>
<td></td>
</tr>
<tr>
<td></td>
<td>22: ((n,n+\alpha))</td>
<td></td>
</tr>
<tr>
<td>12: mult((\gamma))</td>
<td>91: ((n,n')) continuum</td>
<td></td>
</tr>
<tr>
<td></td>
<td>103: ((n,p))</td>
<td></td>
</tr>
<tr>
<td>13: (\sigma(E)(\gamma))</td>
<td>51: ((n,n')) lst level-</td>
<td></td>
</tr>
<tr>
<td></td>
<td>56: ((n,n')) 6th level</td>
<td></td>
</tr>
<tr>
<td>14: (d\sigma/d\theta(\gamma))</td>
<td>51: ((n,n')) lst level-</td>
<td></td>
</tr>
<tr>
<td></td>
<td>56: ((n,n')) 6th level</td>
<td></td>
</tr>
<tr>
<td></td>
<td>91: ((n,n')) continuum</td>
<td></td>
</tr>
<tr>
<td>15: (d\sigma/dE(\gamma))</td>
<td>91: ((n,n')) continuum</td>
<td></td>
</tr>
</tbody>
</table>

Note: The table likely represents a list of reactions and their corresponding symbols, commonly found in nuclear data evaluation contexts.
### JOINT EVALUATED FILE INDEX

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<td>2: Res. parm.</td>
<td>151: scattering radius</td>
<td>2: (n, el)</td>
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<tr>
<td>3: (\sigma(E))</td>
<td>1: ((n, \text{tot}))</td>
<td>2: ((n, \text{el}))</td>
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<td>4: ((n, \text{inel}))</td>
<td>4: ((n, \text{inel}))</td>
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<td>22: ((n, \alpha))</td>
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<td>51: ((n, n')) continental</td>
</tr>
<tr>
<td></td>
<td>91: ((n, n')) continuum</td>
<td>91: ((n, n')) continuum</td>
</tr>
<tr>
<td>4: (d\sigma/d\theta)</td>
<td>2: ((n, \text{el}))</td>
<td>16: ((n, 2n))</td>
</tr>
<tr>
<td></td>
<td>22: ((n, n + \alpha))</td>
<td>28: ((n, n + p))</td>
</tr>
<tr>
<td></td>
<td>51: ((n, n')) continental</td>
<td>73: ((n, n')) 23rd level</td>
</tr>
<tr>
<td></td>
<td>91: ((n, n')) continuum</td>
<td></td>
</tr>
<tr>
<td>5: (d\sigma/dE)</td>
<td>16: ((n, 2n))</td>
<td>22: ((n, n + \alpha))</td>
</tr>
<tr>
<td></td>
<td>28: ((n, n + p))</td>
<td>91: ((n, n')) 23rd level</td>
</tr>
<tr>
<td>12: (\text{mult(\gamma)})</td>
<td>4: ((n, \text{inel}))</td>
<td>22: ((n, n + \alpha))</td>
</tr>
<tr>
<td></td>
<td>28: ((n, n + p))</td>
<td>22: ((n, n + \alpha))</td>
</tr>
<tr>
<td></td>
<td>103: ((n, p))</td>
<td>107: ((n, \gamma))</td>
</tr>
<tr>
<td>14: (d\sigma/d\theta(\gamma))</td>
<td>4: ((n, \text{inel}))</td>
<td>22: ((n, n + \alpha))</td>
</tr>
<tr>
<td></td>
<td>28: ((n, n + p))</td>
<td>102: ((n, \gamma))</td>
</tr>
<tr>
<td>15: (d\sigma/dE(\gamma))</td>
<td>4: ((n, \text{inel}))</td>
<td>22: ((n, n + \alpha))</td>
</tr>
<tr>
<td></td>
<td>28: ((n, n + p))</td>
<td>102: ((n, \gamma))</td>
</tr>
<tr>
<td></td>
<td>103: ((n, p))</td>
<td>107: ((n, \alpha))</td>
</tr>
</tbody>
</table>
JOINT EVALUATED FILE INDEX

22-Ti-0

Tape no: 1.11 Material no: 4220

1: Information  451: (Gen. info.)
2: Res. parm.  151: scattering radius
3: \(\sigma(E)\)  
  1: \(\langle n,\text{tot} \rangle\)  2: \(\langle n, e_1 \rangle\)
  4: \(\langle n, \text{inel} \rangle\)  16: \(\langle n, 2n \rangle\)
  17: \(\langle n, 3n \rangle\)  22: \(\langle n, n+\alpha \rangle\)
  28: \(\langle n, n+p \rangle\)  51: \(\langle n, n' \rangle 1\text{st level-}\)
  53: \(\langle n, n' \rangle 3\text{rd level}\)  91: \(\langle n, n' \rangle \text{continuum}\)
  102: \(\langle n, \gamma \rangle\)  103: \(\langle n, p \rangle\)
  104: \(\langle n, d \rangle\)  105: \(\langle n, t \rangle\)
  106: \(\langle n, \text{He3} \rangle\)  107: \(\langle n, \alpha \rangle\)
  111: \(\langle n, 2p \rangle\)  112: \(\langle n, p+\alpha \rangle\)
  203: \(\langle n, x \rangle\)  207: \(\langle n, x \rangle\)
  251: \(\mu\)  252: \(\xi\)
  253: \(\gamma\)
  2: \(\langle n, \text{el} \rangle\)
  17: \(\langle n, 3n \rangle\)
  28: \(\langle n, n+p \rangle\)
  53: \(\langle n, n' \rangle 3\text{rd level}\)
  16: \(\langle n, 2n \rangle\)
  22: \(\langle n, n+\alpha \rangle\)
  51: \(\langle n, n' \rangle 1\text{st level-}\)
  91: \(\langle n, n' \rangle \text{continuum}\)

4: \(\frac{d\sigma}{d\theta}\)  
  2: \(\langle n, e_1 \rangle\)  16: \(\langle n, 2n \rangle\)
  17: \(\langle n, 3n \rangle\)  22: \(\langle n, n+\alpha \rangle\)
  28: \(\langle n, n+p \rangle\)  51: \(\langle n, n' \rangle 1\text{st level-}\)
  53: \(\langle n, n' \rangle 3\text{rd level}\)  91: \(\langle n, n' \rangle \text{continuum}\)

5: \(\frac{d\sigma}{dE}\)  
  16: \(\langle n, 2n \rangle\)  17: \(\langle n, 3n \rangle\)
  22: \(\langle n, n+\alpha \rangle\)  28: \(\langle n, n+p \rangle\)
  91: \(\langle n, n' \rangle \text{continuum}\)

12: mult(\(\gamma\))  102: \(\langle n, \gamma \rangle\)
13: \(\sigma(E)(\gamma)\)  3: \(\langle n, \text{nonel} \rangle\)
14: \(\frac{d\sigma}{d\theta}(\gamma)\)  3: \(\langle n, \text{nonel} \rangle\)
15: \(\frac{d\sigma}{dE}(\gamma)\)  3: \(\langle n, \text{nonel} \rangle\)  102: \(\langle n, \gamma \rangle\)
JOINT EVALUATED FILE INDEX

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1: Information
- 451: (Gen. info.)

2: Res. parm.
- 151: scattering radius
- 1: (n, tot)
- 3: (n, nonel)
- 16: (n, 2n)
- 28: (n, n+p)
- 54: (n, n') 4th level
- 102: (n, γ)
- 104: (n, d)
- 107: (n, α)
- 252: μ
- 253: γ

3: $\sigma(E)$
- 2: (n, el)
- 4: (n, inel)
- 16: (n, 2n)
- 22: (n, n+α)
- 51: (n, n') 1st level
- 91: (n, n') continuum
- 102: (n, γ)
- 103: (n, p)
- 105: (n, t)
- 251: μ

4: $d\sigma/dθ$
- 2: (n, el)
- 22: (n, n+α)
- 51: (n, n') 1st level
- 91: (n, n') continuum
- 16: (n, 2n)
- 28: (n, n+p)

5: $d\sigma/dE$
- 16: (n, 2n)
- 28: (n, n+p)
- 91: (n, n') continuum
- 102: (n, γ)

12: mult(γ)
- 3: (n, nonel)
- 16: (n, 2n)
- 22: (n, n+α)
- 28: (n, n+p)
- 102: (n, γ)

14: $d\sigma/dθ(γ)$
- 3: (n, nonel)
- 16: (n, 2n)
- 28: (n, n+p)
- 102: (n, γ)

15: $d\sigma/dE(γ)$
- 3: (n, nonel)
- 16: (n, 2n)
- 28: (n, n+p)
- 102: (n, γ)
**JOINT EVALUATED FILE INDEX**

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1: Information 451: (Gen. info.)
2: Res. parm. 151: (n, res)
3: $\sigma(E)$
   1: (n, tot)
   4: (n, inel)
   22: (n, n+a)
   51: (n, n') list level-
   91: (n, n') continuum
4: $d\sigma/d\theta$
   2: (n, el)
   22: (n, n+a)
   51: (n, n') list level-
   91: (n, n') continuum
5: $d\sigma/dE$
   16: (n, 2n)
   28: (n, n+p)

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<table>
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<th>MT</th>
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<td>24-Cr- 50</td>
<td>Tape no: 2,12 Material no: 4241</td>
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1: Information 451: (Gen. info.)
2: Res. parm. 151: (n, res)
3: $\sigma(E)$
   1: (n, tot)
   4: (n, inel)
   22: (n, n+a)
   51: (n, n') list level-
   91: (n, n') continuum
4: $d\sigma/d\theta$
   2: (n, el)
   22: (n, n+a)
   51: (n, n') list level-
   91: (n, n') continuum
5: $d\sigma/dE$
   16: (n, 2n)
   28: (n, n+p)
## JOINT EVALUATED FILE INDEX

### Tape no: 2,12  Material no: 4255

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<td>2:Res. parm. 151:(n, res)</td>
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<td>3:o(E)</td>
<td>1:(n, tot) 2:(n, el) 3:(n, nonel) 4:(n, inel) 5:(n, n') lst level</td>
<td></td>
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<tr>
<td>16:(n, 2n) 17:(n, 3n) 22:(n, n+α) 28:(n, n+p) 51:(n, n') lst level</td>
<td></td>
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</tr>
<tr>
<td>55:(n, n') 5th level 91:(n, n') continuum 102:(n, γ)</td>
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</tr>
<tr>
<td>103:(n, p) 104:(n, a) 106:(n, He3) 107:(n, a)</td>
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</tr>
<tr>
<td>251:μ 252:ξ 253:γ</td>
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<td></td>
</tr>
<tr>
<td>4:do/dθ 2:(n, el) 16:(n, 2n) 17:(n, 3n) 22:(n, n+α) 28:(n, n+p) 55:(n, n') lst level</td>
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<td></td>
</tr>
<tr>
<td>91:(n, n') continuum</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5:do/dE 16:(n, 2n) 17:(n, 3n) 22:(n, n+α) 28:(n, n+p) 55:(n, n') lst level</td>
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<td></td>
</tr>
<tr>
<td>91:(n, n') continuum</td>
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| | 4: (n, inel) | 16: (n, 2n) |
| | 22: (n, n+\( \alpha \)) | 28: (n, n+p) |
| | 51: (n, n') lst level- | 62: (n, n') 12th level |
| | 91: (n, n') continuum | 102: (n, \( \gamma \)) |
| | 103: (n, p) | 104: (n, d) |
| | 107: (n, a) | 251: \( \mu \) |
| 4: \( \frac{d\sigma}{d\theta} \) | 2: (n, el) | 16: (n, 2n) |
| | 22: (n, n+\( \alpha \)) | 28: (n, n+p) |
| | 51: (n, n') lst level- | 62: (n, n') 12th level |
| | 91: (n, n') continuum | 102: (n, \( \gamma \)) |
| 5: \( \frac{d\sigma}{dE} \) | 16: (n, 2n) | 91: (n, n') continuum |

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| | 103: (n, p) | 104: (n, d) |
| | 105: (n, t) | 107: (n, a) |
| | 251: ( \mu ) | 252: ( \xi ) |
| | 253: ( \gamma ) | |
| 4: ( \frac{d\sigma}{d\theta} ) | 2: (n, el) | 16: (n, 2n) |
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| | 91: (n, n') continuum | 102: (n, ( \gamma )) |
| 5: ( \frac{d\sigma}{dE} ) | 16: (n, 2n) | 91: (n, n') continuum |
| 12: mult(( \gamma )) | 102: (n, ( \gamma )) | |
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3: $\sigma(E)$

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|             | 64: (n,n') 14th level |
|             | 91: (n,n') continuum |
|             | 102: (n,\gamma)   |
|             | 103: (n,p)        |
|             | 104: (n,d)        |
|             | 107: (n,\alpha)   |
|             | 251: \mu          |

### Material 4284

4: $\frac{d\sigma}{d\theta}$

| 2: (n,el) | 16: (n,2n) |
| 17: (n,3n) | 22: (n,n+\alpha) |
| 28: (n,n+p) | 51: (n,n') lst level-
| 64: (n,n') 14th level |

5: $\frac{d\sigma}{dE}$

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| 17: (n,3n) |                    |</p>
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**Tape no:** 2,12  **Material no:** 4304

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| 3: σ(E) | 1: (n, tot) |
| 4: (n,inel) | 5: (n,n') continuum |
| 53: (n,n') 3rd level | 91: (n,n') continuum |
| 102: (n,γ) | 251: μ |
| 252: ξ | 253: γ |
| 4: dσ/dθ | 2: (n,el) |
| 53: (n,n') 3rd level | 91: (n,n') continuum |
| 5: dσ/dE | 91: (n,n') continuum |
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35-Br- 79  Tape no: 3,13 Material no: 4359
1: Information  451: (Gen. info.)
2: Res. parm.  151: (n,res)
3: σ(E)  1: (n,tot)  2: (n,el)
4: (n,inel)  51: (n,n') 1st level-
61: (n,n') 4th level  91: (n,n') continuum
102: (n,γ)  251: μ
252: γ  253: γ
4: do/dθ  2: (n,el)
61: (n,n') 4th level  91: (n,n') continuum
5: do/dE  91: (n,n') continuum

35-Br- 81  Tape no: 3,13 Material no: 4351
1: Information  451: (Gen. info.)
2: Res. parm.  151: (n,res)
3: σ(E)  1: (n,tot)  2: (n,el)
4: (n,inel)  51: (n,n') 1st level-
54: (n,n') 4th level  91: (n,n') continuum
102: (n,γ)  251: μ
252: γ  253: γ
4: do/dθ  2: (n,el)
54: (n,n') 4th level  91: (n,n') continuum
5: do/dE  91: (n,n') continuum
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| 3: σ(E) | 1: (n,tot) | 2: (n,el) |
| | 4: (n,inel) | 16: (n,2n) |
| | 51: (n',n')1st level- | 56: (n',n')6th level |
| | 91: (n',n')continuum | 102: (n,γ) |
| | 103: (n,p) | 104: (n,α) |
| | 105: (n,t) | 106: (n,He3) |
| | 107: (n,α) | 251: μ |
| | 252: γ | 253: γ |
| 4: dσ/dθ | 16: (n,2n) |
| | 51: (n',n')1st level- | 56: (n',n')6th level |
| | 91: (n',n')continuum |
| 5: dσ/dE | 16: (n,2n) | 91: (n',n')continuum |

| 36-Kr- 80 | Tape no: 3,13 Material no: 4362 |
| 1: Information | 451: (Gen. info.) |
| 2: Res. parm. | 151: (n,res) |
| 3: σ(E) | 1: (n,tot) | 2: (n,el) |
| | 4: (n,inel) | 16: (n,2n) |
| | 51: (n',n')1st level- | 59: (n',n')9th level |
| | 91: (n',n')continuum | 102: (n,γ) |
| | 103: (n,p) | 104: (n,α) |
| | 105: (n,t) | 106: (n,He3) |
| | 107: (n,α) | 251: μ |
| | 252: γ | 253: γ |
| 4: dσ/dθ | 16: (n,2n) |
| | 51: (n',n')1st level- | 59: (n',n')9th level |
| | 91: (n',n')continuum |
| 5: dσ/dE | 16: (n,2n) | 91: (n',n')continuum |

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<td>36-Kr- 83</td>
<td>Tape no: 3,13 Material no: 4363</td>
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<td>2:Res. parm.</td>
<td>36-Kr- 84</td>
<td>Tape no: 3,13 Material no: 4364</td>
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<td>3:σ(E)</td>
<td>36-Kr- 85</td>
<td>Tape no: 3,13 Material no: 4365</td>
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<td>36-Kr- 86</td>
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JOINT EVALUATED FILE INDEX

36-Kr- 86

MF

MT

MT

(Contd)

36-Kr- 86

Tape no: 3,13  Material no: 4366

2: Res. parm.  151: (n, res)
3: \sigma(E)  1: (n, tot)
        4: (n, inel)
        17: (n, 3n)
        64: (n, n') 14th level
        102: (n, 2n)
        104: (n, d)
        251: \mu
        253: \gamma

4: \frac{\partial \sigma}{\partial \theta}
   2: (n, el)
   17: (n, 3n)
   64: (n, n') 14th level

5: \frac{\partial \sigma}{\partial E}
   16: (n, 2n)
   91: (n, n') continuum

102: (n, \gamma)
103: (n, p)
105: (n, t)
252: \rho

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<td>Material no: 4375</td>
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<td>2: Res. parm.</td>
<td>151: (n, res)</td>
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<tr>
<td>3: $\sigma(E)$</td>
<td>1: (n, tot)</td>
<td>2: (n, el)</td>
</tr>
<tr>
<td></td>
<td>4: (n, inel)</td>
<td>51: (n, n') 1st level</td>
</tr>
<tr>
<td></td>
<td>53: (n, n') 3rd level</td>
<td>91: (n, n') continuum</td>
</tr>
<tr>
<td></td>
<td>102: (n, $\gamma$)</td>
<td>251: $\mu$</td>
</tr>
<tr>
<td></td>
<td>252: $\xi$</td>
<td>253: $\gamma$</td>
</tr>
<tr>
<td>4: d$\sigma$/d$\theta$</td>
<td>2: (n, el)</td>
<td>51: (n, n') 1st level</td>
</tr>
<tr>
<td></td>
<td>53: (n, n') 3rd level</td>
<td>91: (n, n') continuum</td>
</tr>
<tr>
<td>5: d$\sigma$/dE</td>
<td>91: (n, n') continuum</td>
<td></td>
</tr>
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| **37-Rb- 86** | Tape no: 3,13 | Material no: 4376 |
| 1: Information | 451: (Gen. info.) | |
| 2: Res. parm. | 151: scattering radius | |
| 3: $\sigma(E)$ | 1: (n, tot) | 2: (n, el) |
| | 4: (n, inel) | 51: (n, n') 1st level |
| | 91: (n, n') continuum | 102: (n, $\gamma$) |
| | 251: $\mu$ | 252: $\xi$ |
| | 253: $\gamma$ | |
| 4: d$\sigma$/d$\theta$ | 2: (n, el) | 51: (n, n') 1st level |
| 5: d$\sigma$/dE | 91: (n, n') continuum | |

| **37-Rb- 87** | Tape no: 3,13 | Material no: 4377 |
| 1: Information | 451: (Gen. info.) | |
| 2: Res. parm. | 151: (n, res) | |
| 3: $\sigma(E)$ | 1: (n, tot) | 2: (n, el) |
| | 4: (n, inel) | 51: (n, n') 1st level |
| | 52: (n, n') 2nd level | 91: (n, n') continuum |
| | 102: (n, $\gamma$) | 251: $\mu$ |
| | 252: $\xi$ | 253: $\gamma$ |
| 4: d$\sigma$/d$\theta$ | 2: (n, el) | 51: (n, n') 1st level |
| 5: d$\sigma$/dE | 91: (n, n') continuum | |
38-Sr- 84

JOINT EVALUATED FILE INDEX

MF | MT | MT
---|---|---
38-Sr- 84 | Tape no: 3,13 Material no: 4384 | 
1:Information | 451:(Gen. info.) | 
2:Res. parm. | 1511(n,res) | 2:(n,el)
3:σ(E) | 1:(n,tot) 4:(n,inel) 102:(n,γ) 251:μ 252:γ | 2:(n,el) 91:(n,n')continuum
4:do/dθ | 2:(n,el) 91:(n,n')continuum |
5:do/dE | 91:(n,n')continuum |

38-Sr- 86 | Tape no: 3,13 Material no: 4386 | 
1:Information | 451:(Gen. info.) | 
2:Res. parm. | 1511(n,res) | 2:(n,el)
3:σ(E) | 1:(n,tot) 4:(n,inel) 51:(n,n')1st level 57:(n,n')7th level 91:(n,n')continuum 102:(n,γ) 251:μ 252:γ | 2:(n,el) 51:(n,n')1st level 91:(n,n')continuum
4:do/dθ | 2:(n,el) 51:(n,n')1st level 91:(n,n')continuum |
5:do/dE | 91:(n,n')continuum |

38-Sr- 87 | Tape no: 3,13 Material no: 4387 | 
1:Information | 451:(Gen. info.) | 
2:Res. parm. | 1511(n,res) | 2:(n,el)
3:σ(E) | 1:(n,tot) 4:(n,inel) 51:(n,n')1st level 57:(n,n')7th level 91:(n,n')continuum 102:(n,γ) 251:μ 252:γ | 2:(n,el) 51:(n,n')1st level 91:(n,n')continuum
4:do/dθ | 2:(n,el) 51:(n,n')1st level 91:(n,n')continuum |
5:do/dE | 91:(n,n')continuum |

38-Sr- 88 | Tape no: 3,13 Material no: 4388 | 
1:Information | 451:(Gen. info.) | 
2:Res. parm. | 1511(n,res) | 2:(n,el)
3:σ(E) | 1:(n,tot) 4:(n,inel) 51:(n,n')1st level 55:(n,n')5th level 91:(n,n')continuum 102:(n,γ) 251:μ 252:γ | 2:(n,el) 51:(n,n')1st level 91:(n,n')continuum
4:do/dθ | 2:(n,el) 51:(n,n')1st level 91:(n,n')continuum |
5:do/dE | 91:(n,n')continuum |

38-Sr- 89 | Tape no: 3,13 Material no: 4389 | 
1:Information | 451:(Gen. info.) | 
2:Res. parm. | 151:scattering radius | 2:(n,el)
3:σ(E) | 1:(n,tot) | 2:(n,el)
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<td>Tape no: 3,13</td>
<td>Material no: 4389</td>
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</table>
| 38-Sr- 89 | 4: (n,inel) | 51: (n,\(n'\)) 1st level-
| | 62: (n,\(n'\)) 12th level | 91: (n,\(n'\)) continuum
| | 102: (n,\(\gamma\)) | 251: \(\mu\)
| | 252: \(\xi\) | 253: \(\gamma\)
| 4: \(d\sigma/d\theta\) | 2: (n,el) | 51: (n,\(n'\)) 1st level-
| | 62: (n,\(n'\)) 12th level | 91: (n,\(n'\)) continuum
| 5: \(d\sigma/dE\) | 91: (n,\(n'\)) continuum

| 38-Sr- 90 | Tape no: 3,13 | Material no: 4380 |
| 1: Information | 451: (Gen. info.) |
| 2: Res. parm. | 151: scattering radius |
| 3: \(\sigma(E)\) | 1: (n,tot) | 2: (n,el)
| | 4: (n,inel) | 51: (n,\(n'\)) 1st level-
| | 54: (n,\(n'\)) 4th level | 91: (n,\(n'\)) continuum
| | 102: (n,\(\gamma\)) | 251: \(\mu\)
| | 252: \(\xi\) | 253: \(\gamma\)
| 4: \(d\sigma/d\theta\) | 2: (n,el) | 51: (n,\(n'\)) 1st level-
| | 54: (n,\(n'\)) 4th level | 91: (n,\(n'\)) continuum
| 5: \(d\sigma/dE\) | 91: (n,\(n'\)) continuum
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<td>5:do/dE</td>
<td>56:(n,n')6th level</td>
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<td>102:(n,γ)</td>
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<td>52:(n,n')2nd level</td>
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<td>1:(n,tot)</td>
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<tr>
<td></td>
<td>58:(n,n')8th level</td>
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<td></td>
<td>91:(n,n')continuum</td>
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<td>102:(n,γ)</td>
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<td>251:μ</td>
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<td>252:γ</td>
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<td>4:do/dθ</td>
<td>2:(n,el)</td>
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<td>51:(n,n')1st level-</td>
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<tr>
<td>5:do/dE</td>
<td>58:(n,n')8th level</td>
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<td>91:(n,n')continuum</td>
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<td>1: $(n,\text{tot})$</td>
<td>2: $(n,\text{el})$</td>
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<tr>
<td></td>
<td>4: $(n,\text{inel})$</td>
<td>16: $(n,2n)$</td>
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<td></td>
<td>17: $(n,3n)$</td>
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<td></td>
<td>58: $(n,\text{n})^{8}\text{th level}$</td>
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<td>91: $(n,\text{n})\text{continuum}$</td>
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<tr>
<td></td>
<td>102: $(n,\gamma)$</td>
<td>103: $(n,p)$</td>
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<td></td>
<td>251: $\mu$</td>
<td>252: $\xi$</td>
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<tr>
<td>4: $d\sigma/d\theta$</td>
<td>16: $(n,2n)$</td>
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<tr>
<td></td>
<td>17: $(n,3n)$</td>
<td>51: $(n,\text{n})^{1}\text{st level}$</td>
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<td>58: $(n,\text{n})^{8}\text{th level}$</td>
<td>91: $(n,\text{n})\text{continuum}$</td>
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<tr>
<td>5: $d\sigma/dE$</td>
<td>16: $(n,2n)$</td>
<td>17: $(n,3n)$</td>
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<td>91: $(n,\text{n})\text{continuum}$</td>
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<td>102: $(n,\gamma)$</td>
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<td>13: $\sigma(E)(\gamma)$</td>
<td>3: $(n,\text{nonel})$</td>
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<tr>
<td>14: $d\sigma/d\theta(\gamma)$</td>
<td>3: $(n,\text{nonel})$</td>
<td>102: $(n,\gamma)$</td>
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<tr>
<td>15: $d\sigma/dE(\gamma)$</td>
<td>3: $(n,\text{nonel})$</td>
<td>102: $(n,\gamma)$</td>
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| 40-Zr-90| Tape no: 3,13 Material no: 4400 |
| 1: Information | 451: (Gen. info.) |         |
| 2: Res. parm. | 151: $(n,\text{res})$ |       |
| 3: $\sigma(E)$ | 1: $(n,\text{tot})$ | 2: $(n,\text{el})$ |
|           | 4: $(n,\text{inel})$ | 51: $(n,\text{n})^{1}\text{st level}$ |
|           | 64: $(n,\text{n})^{14}\text{th level}$ |                 |
|           | 91: $(n,\text{n})\text{continuum}$ |             |
|           | 102: $(n,\gamma)$ | 251: $\mu$ |
| 4: $d\sigma/d\theta$ | 2: $(n,\text{el})$ | 51: $(n,\text{n})^{1}\text{st level}$ |
|           | 64: $(n,\text{n})^{14}\text{th level}$ | 91: $(n,\text{n})\text{continuum}$ |
| 5: $d\sigma/dE$ | 91: $(n,\text{n})\text{continuum}$ |         |

| 40-Zr-91| Tape no: 3,13 Material no: 4401 |
| 1: Information | 451: (Gen. info.) |         |
| 2: Res. parm. | 151: $(n,\text{res})$ + unres |       |
| 3: $\sigma(E)$ | 1: $(n,\text{tot})$ | 2: $(n,\text{el})$ |
|           | 4: $(n,\text{inel})$ | 16: $(n,2n)$ |
|           | 28: $(n,\text{n+p})$ | 51: $(n,\text{n})^{1}\text{st level}$ |
|           | 64: $(n,\text{n})^{14}\text{th level}$ | 91: $(n,\text{n})\text{continuum}$ |
|           | 91: $(n,\text{n})\text{continuum}$ |             |
|           | 102: $(n,\gamma)$ | 103: $(n,p)$ |
|           | 107: $(n,\alpha)$ | 251: $\mu$ |
|           | 252: $\xi$ |       |
| 4: $d\sigma/d\theta$ | 2: $(n,\text{el})$ | 16: $(n,2n)$ |
|           | 28: $(n,\text{n+p})$ | 51: $(n,\text{n})^{1}\text{st level}$ |
|           | 64: $(n,\text{n})^{14}\text{th level}$ | 91: $(n,\text{n})\text{continuum}$ |
| 5: $d\sigma/dE$ | 16: $(n,2n)$ | 28: $(n,\text{n+p})$ |
|           | 91: $(n,\text{n})\text{continuum}$ |             |

<p>| 40-Zr-92| Tape no: 3,13 Material no: 4402 |
| 1: Information | 451: (Gen. info.) |         |
| 2: Res. parm. | 151: $(n,\text{res})$ |       |</p>
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<td>1:(n,tot)</td>
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<td>51:(n,n')1st level-</td>
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<td>91:(n,n')continuum</td>
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<td>102:(n,γ)</td>
<td>251:μ</td>
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| | 56: (n, n') 6th level |
| | 91: (n, n') continuum |
| | 102: (n, $\gamma$) |
| | 107: (n, $\alpha$) |
| | 251: $\mu$ |
| | 252: $\gamma$ |
| 4: $d\sigma/d\theta$ | 2: (n, el) |
| | 51: (n, n') first level- |
| | 91: (n, n') continuum |
| 5: $d\sigma/dE$ | 56: (n, n') 6th level |
| | 91: (n, n') continuum |

| 42-Mo-94 | Tape no: 3,13 Material no: 4424 |
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| 2: Res. parm. | 151: (n, res) |
| 3: $\sigma(E)$ | 1: (n, tot) |
| | 4: (n, inel) |
| | 56: (n, n') 6th level |
| | 91: (n, n') continuum |
| | 102: (n, $\gamma$) |
| | 107: (n, $\alpha$) |
| | 251: $\mu$ |
| | 252: $\gamma$ |
| 4: $d\sigma/d\theta$ | 2: (n, el) |
| | 51: (n, n') first level- |
| | 91: (n, n') continuum |
| 5: $d\sigma/dE$ | 56: (n, n') 6th level |
| | 91: (n, n') continuum |

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| 2: Res. parm. | 151: (n, res) |
| 3: $\sigma(E)$ | 1: (n, tot) |
| | 4: (n, inel) |
| | 56: (n, n') 6th level |
| | 91: (n, n') continuum |
| | 102: (n, $\gamma$) |
| | 107: (n, $\alpha$) |
| | 251: $\mu$ |
| 4: $d\sigma/d\theta$ | 2: (n, el) |
| | 51: (n, n') first level- |
| | 91: (n, n') continuum |
| 5: $d\sigma/dE$ | 56: (n, n') 6th level |
| | 91: (n, n') continuum |</p>
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<td>4: (\frac{d\sigma}{d\theta})</td>
<td>\begin{align*} 2: &amp; (n,\text{el}) \ 51: &amp; (n,\text{n'}) \text{continuum} \end{align*}</td>
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<tr>
<td>5: (\frac{d\sigma}{dE})</td>
<td>\begin{align*} 56: &amp; (n,\text{n'}) \text{6th level} \ 91: &amp; (n,\text{n'}) \text{continuum} \end{align*}</td>
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<td>Tape no: 3,13 Material no: 4427</td>
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<td>1:Information</td>
<td>451: (Gen. info.)</td>
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<tr>
<td>2:Res. parm.</td>
<td>151: (\text{n,\text{res}})</td>
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<tr>
<td>3:(\sigma(E))</td>
<td>\begin{align*} 1: &amp; (n,\text{tot}) \ 2: &amp; (n,\text{el}) \ 4: &amp; (n,\text{inel}) \ 64: &amp; (n,\text{n'}) \text{14th level} \end{align*}</td>
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<tr>
<td>4: (\frac{d\sigma}{d\theta})</td>
<td>\begin{align*} 2: &amp; (n,\text{el}) \ 51: &amp; (n,\text{n'}) \text{1st level} \end{align*}</td>
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<td>5: (\frac{d\sigma}{dE})</td>
<td>\begin{align*} 64: &amp; (n,\text{n'}) \text{14th level} \ 91: &amp; (n,\text{n'}) \text{continuum} \end{align*}</td>
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<td>151: (\text{n,\text{res}}) + unres</td>
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<td>3:(\sigma(E))</td>
<td>\begin{align*} 1: &amp; (n,\text{tot}) \ 2: &amp; (n,\text{el}) \ 4: &amp; (n,\text{inel}) \ 102: &amp; (n,\gamma) \end{align*}</td>
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<td>5: (\frac{d\sigma}{dE})</td>
<td>\begin{align*} 16: &amp; (n,\text{2n}) \ 91: &amp; (n,\text{n'}) \text{continuum} \end{align*}</td>
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<td>\begin{align*} 1: &amp; (n,\text{tot}) \ 2: &amp; (n,\text{el}) \ 4: &amp; (n,\text{inel}) \end{align*}</td>
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<td>4: (\frac{d\sigma}{d\theta})</td>
<td>\begin{align*} 2: &amp; (n,\text{el}) \ 51: &amp; (n,\text{n'}) \text{1st level} \end{align*}</td>
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<td>5: (\frac{d\sigma}{dE})</td>
<td>\begin{align*} 56: &amp; (n,\text{n'}) \text{6th level} \ 91: &amp; (n,\text{n'}) \text{continuum} \end{align*}</td>
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<td>42-Mo-100</td>
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<td>4: (n,inel) 16: (n,2n)</td>
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<td>51: (n,n') 1st level- 62: (n,n') 12th level</td>
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<td>91: (n,n') continuum 102: (n,( \gamma ))</td>
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<td>103: (n,p) 107: (n,( \alpha ))</td>
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<td>251: ( \mu ) 252: ( \xi )</td>
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<td><strong>4: ( d\sigma/d\theta )</strong></td>
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<td><strong>5: ( d\sigma/dE )</strong></td>
<td>16: (n,2n) 91: (n,n') continuum</td>
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43-Tc- 99

Tape no: 3,13 Material no: 4439

1: Information
   451: (Gen. info.)

2: Res. parm.
   151: (n,res) + unres
      1: (n,tot)
      4: (n,inel)
      51: (n,n') 1st level-continuum
      91: (n,n') continuum

3: o(E)
   1: (n,tot)
   2: (n,el)
   4: (n,inel)
   51: (n,n') 1st level-continuum
   91: (n,n') continuum

4: dσ/δθ
   2: (n,el)
   16: (n,2n)
   51: (n,n') 1st level-continuum
   91: (n,n') continuum

5: dσ/dE
   16: (n,2n)
   91: (n,n') continuum
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<td>4:(n,inel)</td>
<td>91:(n,n')continuum</td>
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<td>102:(n,γ)</td>
<td>251:μ</td>
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<td></td>
<td>252:γ</td>
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<td>4:do/dθ</td>
<td>2:(n,el)</td>
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<td>4:(n,inel)</td>
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<td></td>
<td>102:(n,γ)</td>
<td>251:μ</td>
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<td>252:γ</td>
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<td>4:do/dθ</td>
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<td>1:(n,tot)</td>
<td>2:(n,el)</td>
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<td>62:(n,n')12th level</td>
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<td>102:(n,γ)</td>
<td>251:μ</td>
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<td>252:γ</td>
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<td>4:do/dθ</td>
<td>2:(n,el)</td>
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<td>91:(n,n')continuum</td>
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<td>1:(n,tot)</td>
<td>2:(n,el)</td>
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<td>4:(n,inel)</td>
<td>91:(n,n')19th level</td>
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<td>57:(n,n')19th level</td>
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<td></td>
<td>252:γ</td>
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<td>4:do/dθ</td>
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<td>2:(n,el)</td>
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<td>4:(n,inel)</td>
<td>91:(n,n')continuum</td>
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<td></td>
<td>69:(n,n')19th level</td>
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MF   MT   MT

(continued)

44-Ru-101  Tape no: 3,13  Material no: 4441
102: \( (n,\gamma) \)  251: \( \mu \)
252: \( \xi \)  253: \( \gamma \)
4: \( \sigma \langle \theta \rangle \)  2: \( (n,el) \)  51: \( (n,n') \) 1st level-
69: \( (n,n') \) 19th level  91: \( (n,n') \) continuum
5: \( \sigma \langle \theta \rangle \)  2: \( (n,el) \)  51: \( (n,n') \) 1st level-
69: \( (n,n') \) 19th level  91: \( (n,n') \) continuum

44-Ru-102  Tape no: 3,13  Material no: 4442
1: Information  451: (Gen. info.)
2: Res. parm.  151: \( (n,\text{res}) \)
3: \( \sigma (E) \)  1: \( (n,\text{tot}) \)  2: \( (n,el) \)
4: \( (n,\text{inel}) \)  69: \( (n,n') \) 1st level-
51: \( (n,n') \) 1st level-
102: \( (n,\gamma) \)  251: \( \mu \)
252: \( \xi \)  253: \( \gamma \)
4: \( \sigma \langle \theta \rangle \)  2: \( (n,el) \)  51: \( (n,n') \) 1st level-
69: \( (n,n') \) 19th level  91: \( (n,n') \) continuum
5: \( \sigma \langle \theta \rangle \)  2: \( (n,el) \)  51: \( (n,n') \) 1st level-
69: \( (n,n') \) 19th level  91: \( (n,n') \) continuum

44-Ru-103  Tape no: 3,13  Material no: 4443
1: Information  451: (Gen. info.)
2: Res. parm.  151: \( (n,\text{res}) \) + unres
3: \( \sigma (E) \)  1: \( (n,\text{tot}) \)  2: \( (n,el) \)
4: \( (n,\text{inel}) \)  16: \( (n,2n) \)
51: \( (n,n') \) 1st level-
89: \( (n,n') \) 39th level  102: \( (n,\gamma) \)
91: \( (n,n') \) continuum  103: \( (n,p) \)
251: \( \mu \)  107: \( (n,\alpha) \)
252: \( \xi \)  253: \( \gamma \)

4: \( \sigma \langle \theta \rangle \)  2: \( (n,el) \)  16: \( (n,2n) \)
51: \( (n,n') \) 1st level-
89: \( (n,n') \) 39th level  91: \( (n,n') \) continuum
91: \( (n,n') \) continuum
5: \( \sigma \langle \theta \rangle \)  16: \( (n,2n) \)

44-Ru-104  Tape no: 3,13  Material no: 4444
1: Information  451: (Gen. info.)
2: Res. parm.  151: \( (n,\text{res}) \)
3: \( \sigma (E) \)  1: \( (n,\text{tot}) \)  2: \( (n,el) \)
4: \( (n,\text{inel}) \)  51: \( (n,n') \) 1st level-
52: \( (n,n') \) 2nd level  91: \( (n,n') \) continuum
102: \( (n,\gamma) \)  251: \( \mu \)
252: \( \xi \)  253: \( \gamma \)
4: \( \sigma \langle \theta \rangle \)  2: \( (n,el) \)  51: \( (n,n') \) 1st level-
52: \( (n,n') \) 2nd level  91: \( (n,n') \) continuum
5: \( \sigma \langle \theta \rangle \)  91: \( (n,n') \) continuum

44-Ru-105  Tape no: 3,13  Material no: 4445
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<td>1: $(n,\text{tot})$</td>
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<tr>
<td></td>
<td>2: $(n,e1)$</td>
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<tr>
<td></td>
<td>3: $(n,\text{inel})$</td>
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<tr>
<td></td>
<td>4: $(n,n')$</td>
</tr>
<tr>
<td>59: $(n,n')$9th level</td>
<td>91: $(n,n')$continuum</td>
</tr>
<tr>
<td>102: $(n,\gamma)$</td>
<td>251: $\mu$</td>
</tr>
<tr>
<td>252: $\xi$</td>
<td>253: $\gamma$</td>
</tr>
<tr>
<td>4: $d\sigma/d\theta$</td>
<td>2: $(n,e1)$</td>
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<tr>
<td></td>
<td>51: $(n,n')$1st level-</td>
</tr>
<tr>
<td>5: $d\sigma/dE$</td>
<td>59: $(n,n')$9th level</td>
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<td>91: $(n,n')$continuum</td>
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<td>2: $(n,e1)$</td>
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<td>252: $\xi$</td>
<td>253: $\gamma$</td>
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<tr>
<td>4: $d\sigma/d\theta$</td>
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<td>51: $(n,n')$1st level-</td>
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<tr>
<td>5: $d\sigma/dE$</td>
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<td>91: $(n,n')$continuum</td>
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<tr>
<td>3:σ(E)</td>
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<td></td>
<td>91: (n, n') continuum</td>
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<td>102: (n, γ)</td>
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<td>103: (n, p)</td>
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<td>104: (n, d)</td>
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<td>105: (n, t)</td>
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<td>251: μ</td>
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<td>4: dσ/dθ</td>
<td>2: (n, el)</td>
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<td>16: (n, 2n)</td>
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<td>5: dσ/dE</td>
<td>51: (n, n') 1st level-</td>
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<td>91: (n, n') continuum</td>
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<td>102: (n, γ)</td>
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<tr>
<td>4: dσ/dθ</td>
<td>2: (n, el)</td>
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<td>51: (n, n') 1st level-</td>
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<td>105: ((n,t))</td>
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<td>107: ((n,\alpha))</td>
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# Joint Evaluated File Index

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**Tape no:** 3,13  
**Material no:** 4466

- $4: \sigma/d\theta$  
  - $2: (n,\alpha)$  
  - $51: (n,n')$  
    - 1st level  
    - 91: (n,n') continuum
  - $16: (n,2n)$  
  - 70: (n,n') 20th level
  - 91: (n,n') continuum

**Tape no:** 3,13  
**Material no:** 4467

- 1: Information  
  - 451: (Gen. info.)
- 2: Res. parm.  
  - 151: (n,res) + unres
- 3: $\sigma(E)$  
  - 1: (n,tot)  
  - 2: (n,el)  
  - 4: (n,inel)  
  - 51: (n,n')  
    - 1st level  
    - 91: (n,n') continuum
  - 16: (n,2n)  
  - 103: (n,p)  
  - 104: (n,d)  
  - 105: (n,t)  
  - 106: (n,He3)  
  - 251: $\mu$
  - 252: $\xi$
  - 2: (n,el)  
  - 6: (n,He3)
- 4: $\sigma/d\theta$  
  - 2: (n,el)  
  - 16: (n,2n)  
  - 67: (n,n')  
    - 17th level
  - 91: (n,n') continuum

**Tape no:** 3,13  
**Material no:** 4468

- 1: Information  
  - 451: (Gen. info.)
- 2: Res. parm.  
  - 151: (n,res) + unres
- 3: $\sigma(E)$  
  - 1: (n,tot)  
  - 2: (n,el)  
  - 4: (n,inel)  
  - 51: (n,n')  
    - 1st level  
    - 91: (n,n') continuum
  - 16: (n,2n)  
  - 103: (n,p)  
  - 104: (n,d)  
  - 105: (n,t)  
  - 106: (n,He3)  
  - 251: $\mu$
  - 252: $\xi$
- 4: $\sigma/d\theta$  
  - 2: (n,el)  
  - 16: (n,2n)  
  - 67: (n,n')  
    - 17th level
  - 91: (n,n') continuum

**Tape no:** 3,13  
**Material no:** 4460

- 1: Information  
  - 451: (Gen. info.)
- 2: Res. parm.  
  - 151: (n,res) + unres
- 3: $\sigma(E)$  
  - 1: (n,tot)  
  - 2: (n,el)  
  - 4: (n,inel)  
  - 51: (n,n')  
    - 1st level  
    - 91: (n,n') continuum
  - 16: (n,2n)  
  - 103: (n,p)  
  - 104: (n,d)  
  - 105: (n,t)  
  - 106: (n,He3)
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<td>2: (n,el)</td>
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<td>51: (n,n')1st level-</td>
<td>60: (n,n')10th level</td>
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<td>16: (n,2n)</td>
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<td>2:Res. parm. 151:(n,res)</td>
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<td>16:(n,2n)</td>
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<td>103:(n,p) 105:(n,t) 251:μ 252:ξ</td>
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- MT: Material Table
- Tape no: 3,13
- Material no: 4477, 4479, 4471
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48-Cd-111

JOINT EVALUATED FILE INDEX

(contd)

Tape no: 4,14 Material no: 4484

1: Information 451: (Gen. info.)
2: Res. parm. 151: (n, res) + unres
3: \( \sigma(E) \)
   1: (n, tot) 2: (n, el)
   4: (n, inel) 16: (n, 2n)
   51: (n, n') 1st level-
   91: (n, n') continuum 102: (n, \( \gamma \))
251: \( \mu \)
252: \( \xi \)

4: \( \delta \sigma/\delta \theta \)
   2: (n, el) 16: (n, 2n)
   51: (n, n') 1st level-
   91: (n, n') continuum

5: \( \delta \sigma/\delta E \)
   16: (n, 2n) 91: (n, n') continuum

Tape no: 4,14 Material no: 4485

1: Information 451: (Gen. info.)
2: Res. parm. 151: (n, res)
3: \( \sigma(E) \)
   1: (n, tot) 2: (n, el)
   4: (n, inel) 51: (n, n') 1st level-
   56: (n, n') 6th level 91: (n, n') continuum
102: (n, \( \gamma \)) 251: \( \mu \)
252: \( \xi \)
253: \( \gamma \)

4: \( \delta \sigma/\delta \theta \)
   2: (n, el) 51: (n, n') 1st level-
   56: (n, n') 6th level 91: (n, n') continuum

5: \( \delta \sigma/\delta E \)
   91: (n, n') continuum

Tape no: 4,14 Material no: 4486

1: Information 451: (Gen. info.)
2: Res. parm. 151: (n, res) + unres
3: \( \sigma(E) \)
   1: (n, tot) 2: (n, el)
   4: (n, inel) 16: (n, 2n)
   51: (n, n') 1st level-
   53: (n, n') 3rd level 91: (n, n') continuum
102: (n, \( \gamma \)) 103: (n, p)
107: (n, a)
251: \( \mu \)
252: \( \xi \)
253: \( \gamma \)

4: \( \delta \sigma/\delta \theta \)
   2: (n, el) 16: (n, 2n)
   51: (n, n') 1st level-
   53: (n, n') 3rd level 91: (n, n') continuum

5: \( \delta \sigma/\delta E \)
   16: (n, 2n) 91: (n, n') continuum

Tape no: 4,14 Material no: 4487

1: Information 451: (Gen. info.)
2: Res. parm. 151: (n, res)
3: \( \sigma(E) \)
   1: (n, tot) 2: (n, el)
   4: (n, inel) 51: (n, n') 1st level-
   56: (n, n') 6th level 91: (n, n') continuum
102: (n, \( \gamma \)) 251: \( \mu \)
Joint Evaluated File Index

48-Cd-114

Tape no: 4, 14 Material no: 4487

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<td>252: $\xi$</td>
<td>253: $\gamma$</td>
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<tr>
<td>4: $d\sigma/d\theta$</td>
<td>2: $(n, el)$</td>
<td>51: $(n, n')$ lst level-continuum</td>
</tr>
<tr>
<td>5: $d\sigma/dE$</td>
<td>56: $(n, n')$ 6th level</td>
<td>91: $(n, n')$ continuum</td>
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48-Cd-115M

Tape no: 4, 14 Material no: 4488

1: Information | 451: (Gen. info.) |
2: Res. parm. | 151: scattering radius |
3: $\sigma(E)$ | 1: $(n, \text{tot})$ |
| | 4: $(n, \text{inel})$ |
| | 102: $(n, \gamma)$ |
| | 252: $\xi$ |
| | 253: $\gamma$ |
| 4: $d\sigma/d\theta$ | 2: $(n, el)$ |
| 5: $d\sigma/dE$ | 91: $(n, n')$ continuum |

48-Cd-116

Tape no: 4, 14 Material no: 4489

1: Information | 451: (Gen. info.) |
2: Res. parm. | 151: $(n, \text{res})$ |
3: $\sigma(E)$ | 1: $(n, \text{tot})$ |
| | 4: $(n, \text{inel})$ |
| | 54: $(n, n')$ 4th level |
| | 102: $(n, \gamma)$ |
| | 252: $\xi$ |
| | 253: $\gamma$ |
| 4: $d\sigma/d\theta$ | 2: $(n, el)$ |
| 5: $d\sigma/dE$ | 91: $(n, n')$ continuum |

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### 49-In-113

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<td>3: σ(E)</td>
<td>1: (n, tot)</td>
<td>2: (n, el)</td>
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<tr>
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<td>4: (n, inel)</td>
<td>5: (n, n') lst level-</td>
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<tr>
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<td>56: (n, n') 6th level</td>
<td>91: (n, n') continuum</td>
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<td>102: (n, γ)</td>
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### 49-In-115

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<td>253: γ</td>
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<td>2: (n, el)</td>
<td>51: (n, n') lst level-</td>
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<td>62: (n, n') 12th level</td>
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<td>22 $(n,n+\alpha)$</td>
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<td>51 $(n,n')1\text{st level}$</td>
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<td>67 $(n,n')17\text{th level}$</td>
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<td>91 $(n,n')\text{continuum}$</td>
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<td>2 $(n,\text{el})$</td>
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<td>22 $(n,n+\alpha)$</td>
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<td>51 $(n,n')1\text{st level}$</td>
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<td>67 $(n,n')17\text{th level}$</td>
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<td>4 $(n,\text{inel})$</td>
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<td>54 $(n,n')4\text{th level}$</td>
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<td>91 $(n,n')\text{continuum}$</td>
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<td>4 $(n,\text{inel})$</td>
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<td>67 $(n,n')17\text{th level}$</td>
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<td>102 $(n,\gamma)$</td>
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<td>252 $\gamma$</td>
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<td>67 $(n,n')17\text{th level}$</td>
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### 50-Sn-117

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<td>4: (n,inel)</td>
<td>51: (n, n') 1st level -</td>
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<td>55: (n, n') 5th level</td>
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<tr>
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<td>102: (n, γ)</td>
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<td>252: ξ</td>
<td>253: γ</td>
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<td>4: da/dθ</td>
<td>51: (n, n') 1st level -</td>
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<tr>
<td></td>
<td>55: (n, n') 5th level</td>
<td>91: (n, n') continuum</td>
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<td>3: σ(E)</td>
<td>4: (n, inel)</td>
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<td>64: (n, n') 14th level</td>
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<td>102: (n, γ)</td>
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<td>64: (n, n') 14th level</td>
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<td>4: (n, inel)</td>
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<td>58: (n, n') 8th level</td>
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<td>102: (n, γ)</td>
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<td>4: da/dθ</td>
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<td>60: (n, n') 10th level</td>
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<td>102: (n, $\gamma$)</td>
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<td>60: (n, n') 10th level</td>
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**50-Sn-126**

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<td>253: $\gamma$</td>
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| 1:       | Information         | 451: (Gen. info.)   |
| 2:       | Res. parm.          | 151: \( (n,\text{res}) \) |
| 3:       | \( \sigma(E) \)     | \( (n,\text{tot}) \) 2: \( (n,\text{el}) \) |
|          |                     | 4: \( (n,\text{inel}) \) 51: \( (n,n') \text{lst level-} \) |
|          |                     | 54: \( (n,n') \text{4th level} \) 91: \( (n,n') \text{continuum} \) |
|          |                     | 102: \( (n,\gamma) \) 251: \( \mu \) |
|          |                     | 252: \( \xi \) 253: \( \gamma \) |
| 4: \( d\sigma/d\theta \) |                     | 2: \( (n,\text{el}) \) 51: \( (n,n') \text{lst level-} \) |
| 5: \( d\sigma/dE \) |                     | 54: \( (n,n') \text{4th level} \) 91: \( (n,n') \text{continuum} \) |

| 52-Te-123| Tape no: 4,14       | Material no: 4522   |
| 1:       | Information         | 451: (Gen. info.)   |
| 2:       | Res. parm.          | 151: \( (n,\text{res}) \) |
| 3:       | \( \sigma(E) \)     | \( (n,\text{tot}) \) 2: \( (n,\text{el}) \) |
|          |                     | 4: \( (n,\text{inel}) \) 51: \( (n,n') \text{lst level-} \) |
|          |                     | 58: \( (n,n') \text{8th level} \) 91: \( (n,n') \text{continuum} \) |
|          |                     | 102: \( (n,\gamma) \) 251: \( \mu \) |
|          |                     | 252: \( \xi \) 253: \( \gamma \) |
| 4: \( d\sigma/d\theta \) |                     | 2: \( (n,\text{el}) \) 51: \( (n,n') \text{lst level-} \) |
| 5: \( d\sigma/dE \) |                     | 58: \( (n,n') \text{8th level} \) 91: \( (n,n') \text{continuum} \) |

| 52-Te-124| Tape no: 4,14       | Material no: 4523   |
| 1:       | Information         | 451: (Gen. info.)   |
| 2:       | Res. parm.          | 151: \( (n,\text{res}) \) |
| 3:       | \( \sigma(E) \)     | \( (n,\text{tot}) \) 2: \( (n,\text{el}) \) |
|          |                     | 4: \( (n,\text{inel}) \) 51: \( (n,n') \text{lst level-} \) |
|          |                     | 61: \( (n,n') \text{11th level} \) 91: \( (n,n') \text{continuum} \) |
|          |                     | 102: \( (n,\gamma) \) 251: \( \mu \) |
|          |                     | 252: \( \xi \) 253: \( \gamma \) |
| 4: \( d\sigma/d\theta \) |                     | 2: \( (n,\text{el}) \) 51: \( (n,n') \text{lst level-} \) |
| 5: \( d\sigma/dE \) |                     | 61: \( (n,n') \text{11th level} \) 91: \( (n,n') \text{continuum} \) |

<p>| 52-Te-125| Tape no: 4,14       | Material no: 4524   |
| 1:       | Information         | 451: (Gen. info.)   |
| 2:       | Res. parm.          | 151: ( (n,\text{res}) ) |
| 3:       | ( \sigma(E) )     | ( (n,\text{tot}) ) 2: ( (n,\text{el}) ) |</p>
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<td>91:(n,n')continuum</td>
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<td>102:(n,γ)</td>
<td>251:μ</td>
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<td>252:γ</td>
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<td>4:do/dθ</td>
<td>2:(n,el)</td>
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<td>56:(n,n')6th level</td>
<td>91:(n,n')continuum</td>
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| 2:Res. parm. | 151:(n,res) |
| 3:σ(E) | 1:(n,tot) 2:(n,el) |
| 4:(n,inel) | 51:(n,n')1st level |
| 63:(n,n')13th level | 91:(n,n')continuum |
| 102:(n,γ) | 251:μ |
| 252:γ |
| 4:do/dθ | 2:(n,el) |
| 63:(n,n')13th level | 91:(n,n')continuum |
| 5:do/dE |
| 91:(n,n')continuum |

| 52-Te-127M | Tape no: 4,14 Material no: 4526 |
| 1:Information | 451:(Gen. info.) |
| 2:Res. parm. | 151:scattering radius |
| 3:σ(E) | 1:(n,tot) 2:(n,el) |
| 4:(n,inel) | 91:(n,n')continuum |
| 102:(n,γ) | 251:μ |
| 252:γ |
| 4:do/dθ | 2:(n,el) |
| 91:(n,n')continuum |
| 5:do/dE |
| 91:(n,n')continuum |

| 52-Te-128 | Tape no: 4,14 Material no: 4527 |
| 1:Information | 451:(Gen. info.) |
| 2:Res. parm. | 151:(n,res) |
| 3:σ(E) | 1:(n,tot) 2:(n,el) |
| 4:(n,inel) | 51:(n,n')1st level |
| 59:(n,n')9th level | 91:(n,n')continuum |
| 102:(n,γ) | 251:μ |
| 4:do/dθ | 2:(n,el) |
| 59:(n,n')9th level | 91:(n,n')continuum |
| 5:do/dE |
| 91:(n,n')continuum |

<p>| 52-Te-129M | Tape no: 4,14 Material no: 4528 |
| 1:Information | 451:(Gen. info.) |
| 2:Res. parm. | 151:scattering radius |
| 3:σ(E) | 1:(n,tot) 2:(n,el) |
| 4:(n,inel) | 91:(n,n')continuum |</p>
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<td>102: (n,γ)</td>
<td>251: μ</td>
</tr>
<tr>
<td>252: ξ</td>
<td>253: γ</td>
</tr>
<tr>
<td>4: dσ/dθ</td>
<td>8: (n, el)</td>
</tr>
<tr>
<td>5: dσ/dE</td>
<td>91: (n, n')continuum</td>
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<td>1: Information</td>
<td>451: (Gen. info.)</td>
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<tr>
<td>2: Res. parm.</td>
<td>151: (n, res)</td>
</tr>
<tr>
<td>3: σ(E)</td>
<td>1: (n, tot)</td>
</tr>
<tr>
<td></td>
<td>4: (n, inel)</td>
</tr>
<tr>
<td></td>
<td>60: (n, n')10th level</td>
</tr>
<tr>
<td></td>
<td>102: (n, γ)</td>
</tr>
<tr>
<td></td>
<td>252: ξ</td>
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<tr>
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<td>253: γ</td>
</tr>
<tr>
<td>4: dσ/dθ</td>
<td>8: (n, el)</td>
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<tr>
<td>5: dσ/dE</td>
<td>91: (n, n')continuum</td>
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<td>2: Res. parm.</td>
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<td>1: (n, tot)</td>
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<td>4: (n, inel)</td>
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<td>56: (n, n')6th level</td>
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<td>252: ξ</td>
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<td></td>
<td>253: γ</td>
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<tr>
<td>4: dσ/dθ</td>
<td>8: (n, el)</td>
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<tr>
<td>5: dσ/dE</td>
<td>91: (n, n')continuum</td>
</tr>
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53-I -127

Tape no: 4,14 Material no: 4533

1: Information 451: (Gen. info.)
2: Res. parm. 151: (n,res) + unres
3: σ(E)
   1: (n,tot) 2: (n,el)
   4: (n,inel) 16: (n,2n)
   51: (n,n')1st level- 62: (n,n')12th level
   91: (n,n')continuum 102: (n,γ)
   103: (n,p) 104: (n,d)
   105: (n,t) 106: (n,He3)
   107: (n,α) 251: μ
   252: ε
   4: dσ/dθ 2: (n,el) 16: (n,2n)
   51: (n,n')1st level- 62: (n,n')12th level
   91: (n,n')continuum

53-I -129

Tape no: 4,14 Material no: 4534

1: Information 451: (Gen. info.)
2: Res. parm. 151: (n,res) + unres
3: σ(E)
   1: (n,tot) 2: (n,el)
   4: (n,inel) 16: (n,2n)
   17: (n,3n) 22: (n,n+α)
   28: (n,n+p) 51: (n,n')1st level-
   60: (n,n')10th level 91: (n,n')continuum
   102: (n,γ) 103: (n,p)
   107: (n,α) 251: μ
   252: ε 253: γ
   4: dσ/dθ 2: (n,el) 16: (n,2n)
   17: (n,3n) 22: (n,n+α)
   28: (n,n+p) 51: (n,n')1st level-
   60: (n,n')10th level 91: (n,n')continuum
   5: dσ/dE 16: (n,2n) 17: (n,3n)

53-I -130

Tape no: 4,14 Material no: 4535

1: Information 451: (Gen. info.)
2: Res. parm. 151: scattering radius
3: σ(E)
   1: (n,tot) 2: (n,el)
   4: (n,inel) 91: (n,n')continuum
   102: (n,γ) 251: μ
   252: ε 253: γ
   4: dσ/dθ 2: (n,el) 91: (n,n')continuum
   5: dσ/dE 16: (n,2n) 91: (n,n')continuum

53-I -131

Tape no: 4,14 Material no: 4536

1: Information 451: (Gen. info.)
2: Res. parm. 151: scattering radius
3: σ(E)
   1: (n,tot) 2: (n,el)
   4: (n,inel) 51: (n,n')1st level-
   54: (n,n')4th level 91: (n,n')continuum
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<td>53-1 -131 Tape no: 4,14 Material no: 4536</td>
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<tr>
<td>102: ( n,\gamma )</td>
<td>251: ( \mu )</td>
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</tr>
<tr>
<td>252: ( \xi )</td>
<td>253: ( \gamma )</td>
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</tr>
<tr>
<td>4: ( d\sigma /d\theta )</td>
<td>2: ( (n,el) )</td>
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<tr>
<td>54: ( (n,n')4\text{th level} )</td>
<td>91: ( (n,n')\text{continuum} )</td>
<td></td>
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<tr>
<td>5: ( d\sigma /dE )</td>
<td>91: ( (n,n')\text{continuum} )</td>
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<p>| 53-1 -135 Tape no: 4,14 Material no: 4537 |
| 1: Information | 451: (Gen. info.) |
| 2: Res. parm. | 151: scattering radius |
| 3: ( \sigma(E) ) | 1: ( (n,tot) ) |
| 4: ( (n,inel) ) | 91: ( (n,n')\text{continuum} ) |
| 102: ( (n,\gamma) ) | 251: ( \mu ) |
| 252: ( \xi ) | 253: ( \gamma ) |
| 4: ( d\sigma /d\theta ) | 2: ( (n,el) ) |
| 5: ( d\sigma /dE ) | 91: ( (n,n')\text{continuum} ) |</p>
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<td>3: $\sigma(E)$</td>
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<tr>
<td>1: $(n, \text{tot})$</td>
<td>2: $(n, el)$</td>
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<tr>
<td>4: $(n, \text{inel})$</td>
<td>16: $(n, 2n)$</td>
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<tr>
<td>17: $(n, 3n)$</td>
<td>51: $(n, n')$ 1st level</td>
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<tr>
<td>54: $(n, n')$ 4th level</td>
<td>91: $(n, n')$ continuum</td>
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<tr>
<td>102: $(n, \gamma)$</td>
<td>103: $(n, p)$</td>
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<tr>
<td>104: $(n, d)$</td>
<td>105: $(n, t)$</td>
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<tr>
<td>106: $(n, \text{He3})$</td>
<td>107: $(n, \alpha)$</td>
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</tr>
<tr>
<td>251: $\mu$</td>
<td>252: $\xi$</td>
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</tr>
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<td>253: $\gamma$</td>
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<td>4: $d\sigma/d\theta$</td>
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<td>17: $(n, 3n)$</td>
<td>51: $(n, n')$ 1st level</td>
<td></td>
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<tr>
<td>54: $(n, n')$ 4th level</td>
<td>91: $(n, n')$ continuum</td>
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<td>3: $\sigma(E)$</td>
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<tr>
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<td>16: $(n, 2n)$</td>
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<td>17: $(n, 3n)$</td>
<td>51: $(n, n')$ 1st level</td>
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<tr>
<td>54: $(n, n')$ 4th level</td>
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<td>102: $(n, \gamma)$</td>
<td>103: $(n, p)$</td>
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<tr>
<td>104: $(n, d)$</td>
<td>105: $(n, t)$</td>
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<td>106: $(n, \text{He3})$</td>
<td>107: $(n, \alpha)$</td>
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<tr>
<td>251: $\mu$</td>
<td>252: $\xi$</td>
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<td>253: $\gamma$</td>
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<tr>
<td>4: $d\sigma/d\theta$</td>
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<tr>
<td>2: $(n, el)$</td>
<td>16: $(n, 2n)$</td>
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<td>17: $(n, 3n)$</td>
<td>51: $(n, n')$ 1st level</td>
<td></td>
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<tr>
<td>54: $(n, n')$ 4th level</td>
<td>91: $(n, n')$ continuum</td>
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<tr>
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<tr>
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<td>16: $(n, 2n)$</td>
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<tr>
<td>17: $(n, 3n)$</td>
<td>51: $(n, n')$ 1st level</td>
<td></td>
</tr>
<tr>
<td>53: $(n, n')$ 3rd level</td>
<td>91: $(n, n')$ continuum</td>
<td></td>
</tr>
<tr>
<td>102: $(n, \gamma)$</td>
<td>103: $(n, p)$</td>
<td></td>
</tr>
<tr>
<td>104: $(n, d)$</td>
<td>105: $(n, t)$</td>
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<td>106: $(n, \text{He3})$</td>
<td>107: $(n, \alpha)$</td>
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<tr>
<td>251: $\mu$</td>
<td>252: $\xi$</td>
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<td>253: $\gamma$</td>
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<tr>
<td>4: $d\sigma/d\theta$</td>
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<td>2: $(n, el)$</td>
<td>16: $(n, 2n)$</td>
<td></td>
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<tr>
<td>17: $(n, 3n)$</td>
<td>51: $(n, n')$ 1st level</td>
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54-Xe-131

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<td>252:</td>
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<td>dσ/dE</td>
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54-Xe-132 | Tape no: 4,14 Material no: 4546 |
| 1: | Information |
| 2: | Res. parm. |
| 3: | σ(E) |
| 1: | (n,tot) |
| 4: | (n,inel) |
| 17: | (n,3n) |
| 54: | (n,n')4th level |
| 102: | (n,γ) |
| 104: | (n,d) |
| 105: | (n,t) |
| 107: | (n,α) |
| 252: | γ |
| 4: | dσ/dθ |
| | | 2: | (n,el) |
| | | 16: | (n,2n) |
| | | 17: | (n,3n) |
| | | 51: | (n,n')1st level |
| | | 54: | (n,n')4th level |
| | | 91: | (n,n')continuum |
| 5: | dσ/dE |
| | | 16: | (n,2n) |
| | | 17: | (n,3n) |
| | | 91: | (n,n')continuum |

54-Xe-133 | Tape no: 4,14 Material no: 4547 |
| 1: | Information |
| 2: | Res. parm. |
| 3: | σ(E) |
| 1: | (n,tot) |
| 4: | (n,inel) |
| 17: | (n,3n) |
| 53: | (n,n')3rd level |
| 102: | (n,γ) |
| 251: | μ |
| 252: | γ |
| 4: | dσ/dθ |
| | | 2: | (n,el) |
| | | 51: | (n,n')1st level |
| | | 91: | (n,n')continuum |
| 5: | dσ/dE |
| | | 91: | (n,n')continuum |

54-Xe-134 | Tape no: 4,14 Material no: 4548 |
| 1: | Information |
| 2: | Res. parm. |
| 3: | σ(E) |
| 1: | (n,tot) |
| 4: | (n,inel) |
| 17: | (n,3n) |
| 53: | (n,n')3rd level |
| 102: | (n,γ) |
| 251: | μ |
| 252: | γ |
| 4: | dσ/dθ |
| | | 2: | (n,el) |
| | | 51: | (n,n')1st level |
| | | 91: | (n,n')continuum |
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MF

54-Xe-134

Tape no: 4,14 Material no: 4548

104: (n,d)
107: (n,α)
252: γ

4: dσ/ dθ
2: (n, el)
16: (n,2n)
17: (n,3n)
53: (n, n')3rd level

5: dσ/ dE
16: (n,2n)
91: (n,n') continuum

54-Xe-135

Tape no: 4,14 Material no: 4549

1: Information 451: (Gen. info.)
2: Res. parm. 151: scattering radius
3: σ(E) 1: (n,tot)
4: (n,inel)
91: (n,n') continuum
251: μ
252: γ

4: dσ/ dθ
2: (n, el)
91: (n,n') continuum

5: dσ/ dE
91: (n,n') continuum

54-Xe-136

Tape no: 4,14 Material no: 4551

1: Information 451: (Gen. info.)
2: Res. parm. 151: scattering radius
3: σ(E) 1: (n,tot)
4: (n,inel)
17: (n,3n)
53: (n,n')3rd level
102: (n,γ)
104: (n,d)
107: (n,α)
252: γ

4: dσ/ dθ
2: (n, el)
16: (n,2n)
17: (n,3n)
53: (n,n')3rd level

5: dσ/ dE
16: (n,2n)
91: (n,n') continuum
55-Cs-133

JOINT EVALUATED FILE INDEX

Tape no:  4,14  Material no:  4553

1: Information  451: (Gen. info.)
2: Res. parm.  151: (n,res) + unres
3: σ(E)  1: (n,tot)  2: (n,el)
        4: (n,inel)  16: (n,2n)
        51: (n,n') 1st level-
        68: (n,n') 18th level
        91: (n,n') continuum
        102: (n,γ)
        103: (n,p)
        105: (n,γ)
        106: (n,He3)
        107: (n,α)
        251: μ
        252: ±
        2: (n,el)
        51: (n,n') 1st level-
        68: (n,n') 18th level
        91: (n,n') continuum

Tape no:  4,14  Material no:  4554

1: Information  451: (Gen. info.)
2: Res. parm.  151: scattering radius
3: σ(E)  1: (n,tot)  2: (n,el)
        4: (n,inel)  51: (n,n') 1st level-
        55: (n,n') 5th level
        91: (n,n') continuum
        102: (n,γ)
        251: μ
        252: ±
        4: dσ/dθ
        2: (n,el)
        51: (n,n') 1st level-
        68: (n,n') 18th level
        91: (n,n') continuum

Tape no:  4,14  Material no:  4555

1: Information  451: (Gen. info.)
2: Res. parm.  151: (n,res) + unres
3: σ(E)  1: (n,tot)  2: (n,el)
        4: (n,inel)  16: (n,2n)
        51: (n,n') 1st level-
        68: (n,n') 18th level
        91: (n,n') continuum
        102: (n,γ)
        103: (n,p)
        107: (n,α)
        251: μ
        252: ±
        4: dσ/dθ
        2: (n,el)
        16: (n,2n)
        51: (n,n') 1st level-
        68: (n,n') 18th level
        91: (n,n') continuum

Tape no:  4,14  Material no:  4556

1: Information  451: (Gen. info.)
2: Res. parm.  151: (n,res)
3: σ(E)  1: (n,tot)  2: (n,el)
        4: (n,inel)  91: (n,n') continuum
        102: (n,γ)
        251: μ
        252: ±
        4: dσ/dθ
        2: (n,el)
        91: (n,n') continuum
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<td>Tape no: 4,14 Material no: 4556</td>
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<tr>
<td>5: $d\sigma/dE$</td>
<td>$91:(n,n')$continuum</td>
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<td>55-Cs-137</td>
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<td>1: Information</td>
<td>451: (Gen. info.)</td>
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<td>2: Res. parm.</td>
<td>151: $(n,\text{res}) + \text{unres}$</td>
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<td>3: $\sigma(E)$</td>
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<td>251: $\mu$</td>
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<td>5: do/dE</td>
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| 56-Ba-135 | 4,14   | 4565        |      |
| 1: Information | 451: (Gen. info.) | 151: (n,res) |
| 2: Res. parm. | 1: (n,tot) | 2: (n,el) |
| 3: σ(E) | 4: (n,inel) | 51: (n,n') 1st level |
|        | 59: (n,n') 9th level | 91: (n,n') continuum |
|        | 102: (n,γ) | 251: μ |
|        | 252: γ | |
| 4: do/dθ | 2: (n,el) | 51: (n,n') 1st level |
|        | 59: (n,n') 9th level | 91: (n,n') continuum |
| 5: do/dE | 91: (n,n') continuum |

| 56-Ba-136 | 4,14   | 4566        |      |
| 1: Information | 451: (Gen. info.) | 151: (n,res) |
| 2: Res. parm. | 1: (n,tot) | 2: (n,el) |
| 3: σ(E) | 4: (n,inel) | 51: (n,n') 1st level |
|        | 60: (n,n') 10th level | 91: (n,n') continuum |
|        | 102: (n,γ) | 251: μ |
|        | 252: γ | |
| 4: do/dθ | 2: (n,el) | 51: (n,n') 1st level |
|        | 60: (n,n') 10th level | 91: (n,n') continuum |
| 5: do/dE | 91: (n,n') continuum |

| 56-Ba-137 | 4,14   | 4567        |      |
| 1: Information | 451: (Gen. info.) | 151: (n,res) |
| 2: Res. parm. | 1: (n,tot) | 2: (n,el) |
| 3: σ(E) | 4: (n,inel) | 51: (n,n') 1st level |
|        | 58: (n,n') 8th level | 91: (n,n') continuum |
|        | 102: (n,γ) | 251: μ |
|        | 252: γ | |
| 4: do/dθ | 2: (n,el) | 51: (n,n') 1st level |
|        | 58: (n,n') 8th level | 91: (n,n') continuum |
| 5: do/dE | 91: (n,n') continuum |

<p>| 56-Ba-138 | 4,14   | 4568        |      |
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### Joint Evaluated File Index

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<td>3: ( \sigma(E) )</td>
<td>1: (n,tot) 2: (n,el) 4: (n,inel) 51: (n,n') 1st level 73: (n,n') 23rd level 91: (n,n') continuum 102: (n,( \gamma )) 103: (n,p) 104: (n,d) 105: (n,t) 106: (n,He3) 107: (n,( \alpha )) 251: ( \mu ) 252: ( \xi )</td>
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<td>4: ( \frac{d\sigma}{d\theta} )</td>
<td>2: (n,el) 16: (n,2n) 51: (n,n') 1st level 73: (n,n') 23rd level 91: (n,n') continuum</td>
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<td>5: ( \frac{d\sigma}{dE} )</td>
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| **57-La-140** | Tape no: 4,14 Material no: 4570 |
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| 2: Res. parm. | 151: scattering radius |
| 3: \( \sigma(E) \) | 1: (n,tot) 2: (n,el) 4: (n,inel) 51: (n,n') 1st level 56: (n,n') 6th level 91: (n,n') continuum 102: (n,\( \gamma \)) 251: \( \mu \) 252: \( \xi \) 253: \( \gamma \) |
| 4: \( \frac{d\sigma}{d\theta} \) | 2: (n,el) 51: (n,n') 1st level 56: (n,n') 6th level |
| 5: \( \frac{d\sigma}{dE} \) | 91: (n,n') continuum |
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58-Ce-140

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<td>102: (n, $\gamma$)</td>
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<td>253: $\gamma$</td>
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<td>4: (n, inel)</td>
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<td>102: (n, $\gamma$)</td>
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<td>253: $\gamma$</td>
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<td>4: $d\sigma/dE$ 2: (n, el)</td>
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<td>5: 58: (n, n') 8th level</td>
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58-Ce-141

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<td>62: (n, n') 12th level</td>
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58-Ce-142

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<td>51:(n,n')1st level -</td>
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## 60-Nd-142

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<td>4: (n,inel)</td>
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<td>58: (n,n') 8th level</td>
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<td>2: (n,el)</td>
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<td>4: (n,inel)</td>
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<td>102: (n,(\gamma))</td>
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<td>16: (n,2n)</td>
<td>91: (n,n') continuum</td>
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<td>105: (n,t)</td>
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<td>107: (n,(\alpha))</td>
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<td>64: (n,n') 14th level</td>
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<td>102: (n,(\gamma))</td>
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**60-Nd-146**

**Tape no:** 5,15  **Material no:** 4606

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<td>51:</td>
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<td>$(n,n')$continuum</td>
<td>102: $(n,\gamma)$</td>
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<td>103:</td>
<td>$(n,p)$</td>
<td>104: $(n,d)$</td>
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**60-Nd-147**

**Tape no:** 5,15  **Material no:** 4607

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<td>$(n,\gamma)$</td>
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**60-Nd-148**

**Tape no:** 5,15  **Material no:** 4608

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<td>$(n,n')$continuum</td>
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<td>$(n,p)$</td>
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<tr>
<td>105:</td>
<td>$(n,t)$</td>
<td>106: $(n,He3)$</td>
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<tr>
<td>107:</td>
<td>$(n,\alpha)$</td>
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**60-Nd-148**

**Tape no:** 5, 15  
**Material no:** 4608

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<td>$16:(n, 2n)$</td>
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<td>$51:(n, n')$</td>
<td>$57:(n, n')$</td>
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<td>1st level</td>
<td>7th level</td>
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<td><strong>5:</strong> $\frac{d\sigma}{dE}$</td>
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**60-Nd-150**

**Tape no:** 5, 15  
**Material no:** 4600

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<td>$16:(n, 2n)$</td>
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<tr>
<td></td>
<td>$17:(n, 3n)$</td>
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<tr>
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<td>$22:(n, n+\alpha)$</td>
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<td>$28:(n, n+p)$</td>
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<td>$51:(n, n')$</td>
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<tr>
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<td>1st level</td>
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<td></td>
<td>$59:(n, n')$</td>
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<td>9th level</td>
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<td>$91:(n, n')$</td>
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<td>continuum</td>
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<tr>
<td>$102:(n, \gamma)$</td>
<td>$103:(n, p)$</td>
</tr>
<tr>
<td>$104:(n, d)$</td>
<td>$105:(n, t)$</td>
</tr>
<tr>
<td>$107:(n, \alpha)$</td>
<td>$251: \mu$</td>
</tr>
<tr>
<td>$252: \xi$</td>
<td>$253: \gamma$</td>
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| **4:** $\frac{d\sigma}{d\theta}$ | $2:(n, el)$ | $16:(n, 2n)$ |
| | $17:(n, 3n)$ | $22:(n, n+\alpha)$ |
| | $28:(n, n+p)$ | $51:(n, n')$ |
| | 1st level | 7th level |
| | $59:(n, n')$ | continuum |
| | 9th level | |
| | $91:(n, n')$ | continuum |

<p>| <strong>5:</strong> $\frac{d\sigma}{dE}$ | $16:(n, 2n)$ | $17:(n, 3n)$ |
| | $22:(n, n+\alpha)$ | $28:(n, n+p)$ |
| | $91:(n, n')$ | continuum |</p>
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<td>3: σ(E)</td>
<td>1: (n,tot)</td>
<td>2: (n,el)</td>
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<td>4: (n,inel)</td>
<td>16: (n,2n)</td>
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<td>51: (n,n')1st level-</td>
<td>61: (n,n')11th level</td>
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<td>91: (n,n')continuum</td>
<td>102: (n,γ)</td>
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<td>252: ε</td>
<td>253: γ</td>
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| 1: Information | 451:(Gen. info.) |             |
| 2: Res. parm. | 151:(n,res) |             |
| 3: $\sigma(E)$ | 1:(n,tot) | 2:(n,el) |
|         | 69:(n,n')19th level | 91:(n,n')continuum |
|         | 102:(n,\gamma) | 251:\mu |
|         | 252:\xi | 253:\gamma |
| 4: $d\sigma/d\theta$ | 2:(n,el) | 51:(n,n')1st level- |
|         | 69:(n,n')19th level | 91:(n,n')continuum |
| 5: $d\sigma/dE$ | 91:(n,n')continuum |
### 63-Eu-151

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### JOINT EVALUATED FILE INDEX

**63-Eu-155**

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**65-Tb-160**

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**71-Lu-175**

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72-Hf-178

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<td>2: Res. parm.</td>
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72-Hf-180

Tape no: 6,16 Material no: 4720

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<td>91: (n, n') continuum</td>
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| 12: mult($\gamma$) | 102: (n, $\gamma$) |
| 13: $\sigma(E)(\gamma)$ | 3: (n, nonel) |
| 14: $d\sigma/d\theta(\gamma)$ | 3: (n, nonel) | 102: (n, $\gamma$) |
| 15: $d\sigma/dE(\gamma)$ | 3: (n, nonel) | 102: (n, $\gamma$) |

| 73-Ta-182 | Tape no: 6,16 | Material no: 4732 |
| 1: Information | 451: (Gen. info.) | 2: (n, el) |
| 2: Res. parm. | 151: (n, res) + unres |
| 3: $\sigma(E)$ | 1: (n, tot) | 2: (n, el) |
| | 4: (n,inel) | 16: (n, 2n) |
| | 17: (n, 3n) | 51: (n, n') 1st level- |
| | 58: (n, n') 8th level | 91: (n, n') continuum |
| | 102: (n, $\gamma$) | 107: (n, $\alpha$) |
| | 251: $\mu$ | 252: $\xi$ |
| | 253: $\gamma$ |
| 4: $d\sigma/d\theta$ | 2: (n, el) | 16: (n, 2n) |
| | 17: (n, 3n) | 51: (n, n') 1st level- |
| | 58: (n, n') 8th level | 91: (n, n') continuum |
| 5: $d\sigma/dE$ | 16: (n, 2n) | 17: (n, 3n) |
| | 91: (n, n') continuum |
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<td>17: (n,3n)</td>
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<td>91: (n,n') continuum</td>
<td>102: (n,\gamma)</td>
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<td>17: (n,3n)</td>
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<td>51: (n,n') 1st level</td>
<td>58: (n,n') 8th level</td>
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<td>91: (n,n') continuum</td>
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<td>103: (n,p)</td>
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<td>151: (n,res) + unres</td>
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<td>2: (n,e1)</td>
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<td>4: (n,inel)</td>
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<td>17: (n,3n)</td>
<td>28: (n,n+p)</td>
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<td>102: (n,\gamma)</td>
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<td>103: (n,p)</td>
<td>107: (n,\sigma)</td>
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74-W -184  Tape no: 6,16  Material no: 4744
51: (n,n') lst level  59: (n,n') 9th level 
91: (n,n') continuum  102: (n,γ) 
103: (n,ρ)  107: (n,α) 
251: μ  252: γ 
4: do/dθ
  2: (n,el)  16: (n,2n) 
  17: (n,3n)  28: (n,n+p) 
  51: (n,n') lst level  59: (n,n') 9th level 
  91: (n,n') continuum
91: (n,n') continuum 
12: mult(γ)  102: (n,γ) 
13: σ(E)(γ)  4: (n,inel) 
14: do/dθ(γ)  4: (n,inel)  102: (n,γ) 
15: do/dE(γ)  4: (n,inel)  102: (n,γ)

74-W -186  Tape no: 6,16  Material no: 4746
1: Information  451: (Gen. info.) 
2: Res. parm.  151: (n,res) + unres 
3: σ(E)  1: (n,tot) 
  2: (n,el) 
  4: (n,inel)  16: (n,2n) 
  17: (n,3n)  28: (n,n+p) 
  51: (n,n') lst level  59: (n,n') 9th level 
  91: (n,n') continuum  102: (n,γ) 
  103: (n,ρ)  107: (n,α) 
  251: μ  252: γ 
91: (n,n') continuum
4: do/dθ
  2: (n,el)  16: (n,2n) 
  17: (n,3n)  28: (n,n+p) 
  51: (n,n') lst level  59: (n,n') 9th level 
  91: (n,n') continuum
5: do/dE 
  16: (n,2n)  17: (n,3n) 
  28: (n,n+p)  91: (n,n') continuum 
12: mult(γ)  102: (n,γ) 
13: σ(E)(γ)  4: (n,inel) 
14: do/dθ(γ)  4: (n,inel)  102: (n,γ) 
15: do/dE(γ)  4: (n,inel)  102: (n,γ)
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#### 75-Re-185

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<td>17: ((n,3n))</td>
<td>51: ((n,n'))</td>
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<td>58: ((n,n')8\text{th level})</td>
<td>91: ((n,n'))</td>
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<td>102: ((n,\gamma))</td>
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#### 75-Re-187

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3: $\sigma(E)$
4: $d\sigma/d\theta$
5: $d\sigma/dE$
12: mult($\gamma$)
14: $d\sigma/d\theta(\gamma)$
15: $d\sigma/dE(\gamma)$

451: (Gen. info.)
151: scattering radius
1: $(n,\text{tot})$
3: $(n,\text{nonel})$
16: $(n,2n)$
51: $(n,n')$ 1st level
85: $(n,n')$ 35th level
91: $(n,n')$ continuum
251: $\mu$
252: $\xi$
253: $\gamma$
2: $(n,\text{el})$
16: $(n,2n)$
17: $(n,3n)$
85: $(n,n')$ 35th level
91: $(n,n')$ continuum
16: $(n,2n)$
17: $(n,3n)$
91: $(n,n')$ continuum

1: $(n,\text{tot})$
3: $(n,\text{nonel})$
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<td>17:(n,3n)</td>
<td>22:(n,n+α)</td>
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<td>28:(n,n+p)</td>
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<td>102:(n,γ)</td>
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<td>2: Res. parm.</td>
<td>151: (n, res) + unres</td>
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<td>4: (n, inel)</td>
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<td>17: (n, 3n)</td>
<td>18: (n, f)total</td>
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<td>63: (n, n') 13th level</td>
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<td>91: (n, n') continuum</td>
<td>102: (n, γ)</td>
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<td>251: μ</td>
<td>252: ξ</td>
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<td>253: γ</td>
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<td>4: dσ/θ</td>
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<td>51: (n, n') 1st level-</td>
<td>63: (n, n') 13th level</td>
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<td>91: (n, n') continuum</td>
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<td>5: dσ/dE</td>
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<td>17: (n, 3n)</td>
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<td>18: (n, f) total</td>
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| 92-U -233 | Tape no: 7,17 Material no: 4923 | |
| 1: Information | 451: (Gen. info.) | 452: (n, f)ν |
| 2: Res. parm. | 151: (n, res) | |
| 3: σ(E) | 1: (n, tot) | 2: (n, el) |
|          | 4: (n, inel) | 16: (n, 2n) |
|          | 17: (n, 3n) | 18: (n, f)total |
|          | 51: (n, n') 1st level- | 63: (n, n') 13th level |
|          | 91: (n, n') continuum | 102: (n, γ) |
|          | 251: μ | 252: ξ |
|          | 253: γ | |
| 4: dσ/θ | 16: (n, 2n) | 17: (n, 3n) |
|          | 51: (n, n') 1st level- | 63: (n, n') 13th level |
|          | 91: (n, n') continuum | |
| 5: dσ/dE | 16: (n, 2n) | 17: (n, 3n) |
|          | 18: (n, f) total | 91: (n, n') continuum |

<p>| 92-U -234 | Tape no: 7,17 Material no: 4924 | |
| 1: Information | 451: (Gen. info.) | 452: (n, f)ν |
| 2: Res. parm. | 151: (n, res) + unres | |
| 3: σ(E) | 1: (n, tot) | 2: (n, el) |
|          | 4: (n, inel) | 16: (n, 2n) |
|          | 17: (n, 3n) | 18: (n, f) total |
|          | 19: (n, f) | 20: (n, n'+f) |
|          | 21: (n, 2n+f) | 51: (n, n') 1st level- |
|          | 56: (n, n') 6th level | 91: (n, n') continuum |
|          | 102: (n, γ) | 251: μ |
|          | 252: ξ | 253: γ |
| 4: dσ/θ | 16: (n, 2n) | 17: (n, 3n) |
|          | 18: (n, f) total |</p>
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<td>56: (n,n')6th level</td>
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<td>91: (n,n')continuum</td>
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<tr>
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<tr>
<td>16: (n,2n)</td>
<td>17: (n,3n)</td>
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<td>18: (n,f)total</td>
<td>19: (n,f)</td>
</tr>
<tr>
<td>20: (n,n'+f)</td>
<td>21: (n,2n+f)</td>
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<td>91: (n,n')continuum</td>
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<td>8: Rdd, Fpy</td>
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<tr>
<td>16: (n,2n)</td>
<td>17: (n,3n)</td>
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<td>102: (n,γ)</td>
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<td>252: ξ</td>
<td>253: γ</td>
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<td>16: (n,2n)</td>
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<td>17: (n,3n)</td>
<td>18: (n,f)total</td>
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<td>19: (n,f)</td>
<td>20: (n,n'+f)</td>
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<tr>
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<td>66: (n,n')16th level</td>
<td>91: (n,n')continuum</td>
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<td>18: (n,f)total</td>
<td>19: (n,f)</td>
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92-U -236

Tape no: 7,17 Material no: 4926

458: \((n,f)E\) release

2: Res. parm.

3: \(\sigma(E)\)

1: \((n,\text{tot})\) 2: \((n,\text{el})\)

4: \((n,\text{inel})\) 16: \((n,2n)\)

17: \((n,3n)\) 18: \((n,f)\) total

19: \((n,f^+)\) 20: \((n,n^+\text{f})\)

21: \((n,2n+f)\) 51: \((n,n^\prime)\) 1st level

251: \((n,n^\prime)\) 6th level 91: \((n,n^\prime)\) continuum

102: \((n,\gamma)\) 251: \(\mu\)

252: \(\xi\) 253: \(\gamma\)

4: \(d\sigma/d\theta\)

2: \((n,\text{el})\) 16: \((n,2n)\)

17: \((n,3n)\) 18: \((n,f)\) total

20: \((n,n^\prime+f)\) 21: \((n,2n+f)\)

5: \(d\sigma/dE\)

16: \((n,2n)\) 17: \((n,3n)\)

18: \((n,f)\) total 19: \((n,f)\)

20: \((n,n^\prime+f)\) 21: \((n,2n+f)\)

91: \((n,n^\prime)\) continuum

8: Rdd, Fpy

16: \((n,2n)\) 17: \((n,3n)\)

102: \((n,\gamma)\)

92-U -237

Tape no: 7,17 Material no: 4927

1: Information 451: \((\text{Gen. info.})\) 452: \((n,f)\nu\)

2: Res. parm.

3: \(\sigma(E)\)

1: \((n,\text{tot})\) 2: \((n,\text{el})\)

4: \((n,\text{inel})\) 16: \((n,2n)\)

17: \((n,3n)\) 18: \((n,f)\) total

91: \((n,n^\prime)\) continuum 102: \((n,\gamma)\)

251: \(\mu\) 252: \(\xi\)

253: \(\gamma\)

4: \(d\sigma/d\theta\)

2: \((n,\text{el})\) 16: \((n,2n)\)

17: \((n,3n)\) 91: \((n,n^\prime)\) continuum

5: \(d\sigma/dE\)

16: \((n,2n)\) 17: \((n,3n)\)

18: \((n,f)\) total 91: \((n,n^\prime)\) continuum

8: Rdd, Fpy

16: \((n,2n)\) 17: \((n,3n)\)

102: \((n,\gamma)\)

12: \(\text{mult}(\gamma)\) 18: \((n,f)\) total 102: \((n,\gamma)\)

13: \(\sigma(E)(\gamma)\)

3: \((n,\text{nonel})\)

14: \(d\sigma/d\theta(\gamma)\)

3: \((n,\text{nonel})\) 18: \((n,f)\) total

15: \(d\sigma/dE(\gamma)\)

3: \((n,\text{nonel})\) 18: \((n,f)\) total

102: \((n,\gamma)\)

92-U -238

Tape no: 7,17 Material no: 4928

1: Information 451: \((\text{Gen. info.})\) 452: \((n,f)\nu\)
JOINT EVALUATED FILE INDEX

(Contd)

92-U -238

Tape no: 7,17 Material no: 4928

455: (n,f)\_\_\_\_\_delayed
456: (n,f)\_\_\_\_\_prompt

2: Res. parm.
151: (n, res) + unres

3: \sigma(E)
1: (n, tot)
4: (n, inel)
17: (n, 3n)

51: (n,n')\_\_\_\_\_1st level-
91: (n,n')\_\_\_\_\_continuum

251: \mu

4: \text{d}\alpha/\text{d}\theta
2: (n, el)
16: (n, 2n)
17: (n, 3n)
18: (n,f)\_\_\_\_\_total
51: (n,n')\_\_\_\_\_1st level-
91: (n,n')\_\_\_\_\_continuum

5: \text{d}\omega/\text{d}E
16: (n, 2n)
18: (n,f)\_\_\_\_\_total
455: (n,f)\_\_\_\_\_delayed
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<th>Material no: 4937</th>
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<td>2: <strong>Res. parm.</strong></td>
<td>151: (n, res)</td>
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<tr>
<td>3: <strong>σ(E)</strong></td>
<td>1: (n, tot)</td>
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<td>4: (n, inel)</td>
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<td>16: (n, 2n)</td>
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<td></td>
<td>18: (n, f) total</td>
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<tr>
<td></td>
<td>26: (n, 2n) meta</td>
</tr>
<tr>
<td></td>
<td>51: (n, n') 1st level</td>
</tr>
<tr>
<td></td>
<td>83: (n, n') 33rd level</td>
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<tr>
<td></td>
<td>91: (n, n') continuum</td>
</tr>
<tr>
<td></td>
<td>102: (n, γ)</td>
</tr>
<tr>
<td>4: do/dθ</td>
<td>2: (n, el)</td>
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<td>16: (n, 2n)</td>
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<td>26: (n, 2n) meta</td>
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<td>83: (n, n') 33rd level</td>
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<td>3: <strong>σ(E)</strong></td>
<td>1: (n, tot)</td>
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<td>2: (n, el)</td>
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<td>16: (n, 2n)</td>
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<td>26: (n, 2n) meta</td>
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<td>51: (n, n') 1st level</td>
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<td>91: (n, n') continuum</td>
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<td>102: (n, γ)</td>
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<tr>
<td>4: do/dθ</td>
<td>2: (n, el)</td>
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<td>17: (n, 3n)</td>
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<td>18: (n, f) total</td>
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<tr>
<td></td>
<td>51: (n, n') 1st level</td>
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<tr>
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<td>58: (n, n') 8th level</td>
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<td>91: (n, n') continuum</td>
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<td>102: (n, γ)</td>
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<td>8: Rdd, Fpy</td>
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<td>458: (n, f)E release</td>
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<td>151: scattering radius</td>
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<td>1: (n, tot) 2: (n, el)</td>
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<td>4: (n, inel) 16: (n, 2n)</td>
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<td>17: (n, 3n) 18: (n, f) total 19: (n, f)</td>
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<tr>
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<td>51: (n, n')1st level 91: (n, n')continuum</td>
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<td>4: do/dθ</td>
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<td>2: (n, el) 16: (n, 2n)</td>
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<td>17: (n, 3n) 18: (n, f) total 19: (n, f)</td>
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<td>51: (n, n')1st level 91: (n, n')continuum</td>
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<td>16: (n, 2n) 17: (n, 3n)</td>
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<td>18: (n, f) total 19: (n, f)</td>
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<td>20: (n, n'+f) 91: (n, n') continuum</td>
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<td>102: (n, γ)</td>
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<td>2: Res. parm.</td>
<td>151: (n, res)</td>
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<td></td>
<td>3: σ(E)</td>
</tr>
<tr>
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<td></td>
<td>1: (n, tot) 2: (n, el)</td>
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<tr>
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<td></td>
<td>4: (n, inel) 16: (n, 2n)</td>
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<td>17: (n, 3n) 18: (n, f) total</td>
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The table contains information related to joint evaluated file index 94-Pu-236, 94-Pu-237, and 94-Pu-238, including nuclide information, reaction parameters, and cross sections for various nuclear reactions and energy levels.
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<th>Material no: 4948</th>
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<td>63: (n,n') 13th level</td>
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<td>4: dσ/dθ</td>
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<td>456: (n,f) ν-prompt</td>
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<td>37: (n,4n)</td>
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<td>78: (n,n') 28th level</td>
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<td>102: (n,γ)</td>
<td>251: μ</td>
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<td>17: (n,3n)</td>
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<td>37: (n,4n)</td>
<td>51: (n,n') 1st level</td>
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<tr>
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<td>79: (n,n') 29th level</td>
<td>91: (n,n') continuum</td>
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<tr>
<td></td>
<td>102: (n,γ)</td>
<td>251: μ</td>
</tr>
<tr>
<td>4: dσ/dθ</td>
<td>2: (n,el)</td>
<td>16: (n,2n)</td>
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<td>17: (n,3n)</td>
<td>18: (n,f) total</td>
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<td></td>
<td>37: (n,4n)</td>
<td>51: (n,n') 1st level</td>
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<tr>
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<td>79: (n,n') 29th level</td>
<td>91: (n,n') continuum</td>
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<tr>
<td>5: dσ/dE</td>
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<td>18: (n,f) total</td>
<td>37: (n,4n)</td>
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<td>91: (n,n') continuum</td>
<td>455: (n,f) ν-delayed</td>
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<td>Tape no: 8,18</td>
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<td>1: (n, tot)</td>
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<td>16: (n, 2n)</td>
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<td>18: (n,f)total</td>
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<td>37: (n, 4n)</td>
<td>51: (n,n')list level-</td>
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<td>102: (n, γ)</td>
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<td>37: (n, 4n)</td>
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<td>61: (n,n')11th level</td>
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<td>16: (n, 2n)</td>
<td>17: (n, 3n)</td>
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<td>18: (n,f)total</td>
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<td>151: (n, res)</td>
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<td>1: (n, tot)</td>
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<td>4: (n, inel)</td>
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<td>17: (n, 3n)</td>
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<td>37: (n, 4n)</td>
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<td>67: (n,n')17th level</td>
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<td>102: (n, γ)</td>
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<td><strong>4: dσ/ dθ</strong></td>
<td>2: (n, el)</td>
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<td>17: (n, 3n)</td>
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<td>37: (n, 4n)</td>
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<td>67: (n,n')17th level</td>
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<td><strong>5: dσ/ dE</strong></td>
<td>16: (n, 2n)</td>
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<td>18: (n,f)total</td>
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<td>91: (n,n')continuum</td>
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94-Pu-243

Tape no: 8,18 Material no: 4943

5: $d\sigma/dE$
- $16: (n,2n)$
- $18: (n,f)_{\text{total}}$
- $91: (n,n')_{\text{continuum}}$

8: Rdd, Fpy
- $16: (n,2n)$
- $37: (n,4n)$
- $102: (n,\gamma)$

12: $\text{mult}(\gamma)$
- $16: (n,2n)$
- $37: (n,4n)$
- $102: (n,\gamma)$

13: $\sigma(E)(\gamma)$
- $3: (n,\text{nonel})$

14: $d\sigma/d\theta(\gamma)$
- $3: (n,\text{nonel})$

15: $d\sigma/dE(\gamma)$
- $3: (n,\text{nonel})$

94-Pu-244

Tape no: 8,18 Material no: 4944

1: Information
- $451: (\text{Gen. info.})$
- $452: (n,f)v$
- $458: (n,f)_{\text{E release}}$

2: Res. parm.
- $151: (n,\text{res}) + \text{unres}$

3: $\sigma(E)$
- $1: (n,\text{tot})$
- $16: (n,2n)$
- $17: (n,3n)$
- $18: (n,f)_{\text{total}}$
- $19: (n,f)$
- $20: (n,n'+f)$
- $37: (n,4n)$
- $51: (n,n')_{\text{lst level}}$
- $55: (n,n')_{5\text{th level}}$
- $91: (n,n')_{\text{continuum}}$
- $102: (n,\gamma)$

4: $d\sigma/d\theta$
- $2: (n,\text{el})$
- $16: (n,2n)$

5: $d\sigma/dE$
- $16: (n,2n)$
- $18: (n,f)_{\text{total}}$
- $20: (n,n'+f)$

8: Rdd, Fpy
- $16: (n,2n)$
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<thead>
<tr>
<th>File Index</th>
<th>Tape no</th>
<th>Material no</th>
<th>Information</th>
<th>Res. parm.</th>
<th>(\sigma(E))</th>
<th>(\text{do/d}\theta)</th>
<th>(\text{do/dE})</th>
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<td>1: (n,tot)</td>
<td>2: (n,el)</td>
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<td></td>
<td>1: (n,inel)</td>
<td>4: (n,2n)</td>
<td>7: (n,3n)</td>
<td>18: (n,f)total</td>
<td>90: (n,n')40th level</td>
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<td></td>
<td>51: (n,n')1st level-</td>
<td>91: (n,n')continuum</td>
<td>102: (n,\gamma)</td>
<td>16: (n,2n)</td>
<td>17: (n,3n)</td>
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<td>4: (n,inel)</td>
<td>16: (n,2n)</td>
<td>72: (n,n')22nd level</td>
<td>91: (n,n')continuum</td>
<td>18: (n,f)total</td>
</tr>
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<td>9,19</td>
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<td>2: (n,res)</td>
<td>1: (n,tot)</td>
<td>2: (n,el)</td>
<td>16: (n,2n)</td>
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<td></td>
<td>1: (n,inel)</td>
<td>4: (n,2n)</td>
<td>7: (n,3n)</td>
<td>18: (n,f)total</td>
<td>90: (n,n')40th level</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>51: (n,n')1st level-</td>
<td>91: (n,n')continuum</td>
<td>102: (n,\gamma)</td>
<td>16: (n,2n)</td>
<td>17: (n,3n)</td>
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<td>95-Am-242M</td>
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<td>1: (n,tot)</td>
<td>2: (n,el)</td>
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<td>1: (n,inel)</td>
<td>4: (n,2n)</td>
<td>7: (n,3n)</td>
<td>18: (n,f)total</td>
<td>90: (n,n')40th level</td>
</tr>
<tr>
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<td>51: (n,n')1st level-</td>
<td>91: (n,n')continuum</td>
<td>102: (n,\gamma)</td>
<td>16: (n,2n)</td>
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<tr>
<td>95-Am-243</td>
<td>9,19</td>
<td>4954</td>
<td>1: (Gen. info.)</td>
<td>2: (n,res)</td>
<td>1: (n,tot)</td>
<td>2: (n,el)</td>
<td>16: (n,2n)</td>
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<td>1: (n,inel)</td>
<td>4: (n,2n)</td>
<td>7: (n,3n)</td>
<td>18: (n,f)total</td>
<td>90: (n,n')40th level</td>
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95-Am-243 Tape no: 9,19 Material no: 4954

1: Information 451: (Gen. info.) 452: (n, f)γ
2: Res. parm. 151: (n, res) + unres
3: σ(E) 1: (n, tot) 2: (n, el)
   4: (n, inel) 16: (n, 2n)
   17: (n, 3n) 18: (n, f) total
   51: (n, n') 1st level-
   91: (n, n') 9th level
   102: (n, γ)

4: d σ/d θ 2: (n, el) 16: (n, 2n)
   17: (n, 3n) 18: (n, f) total
   51: (n, n') 1st level-
   91: (n, n') continuum

5: d σ/d E 16: (n, 2n) 17: (n, 3n)
   18: (n, f) total 91: (n, n') continuum
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<th>Material no.</th>
<th>MF - Information</th>
<th>MT - (Gen. info.)</th>
<th>MT - (n,f)ν</th>
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<td>96-Cm-242</td>
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96-Cm-243

(contd)

Tape no: 9,19 Material no: 4963

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<td>(n,n'+f)</td>
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<tr>
<td>62:</td>
<td>(n,n') 12th level</td>
<td>91: (n,n') continuum</td>
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<tr>
<td>5:</td>
<td>$d\sigma/dE$</td>
<td>16: (n,2n)</td>
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<td></td>
<td>18: (n,f) total</td>
</tr>
<tr>
<td></td>
<td></td>
<td>19: (n,f)</td>
</tr>
<tr>
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<td>20: (n,n'+f)</td>
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<td>91: (n,n') continuum</td>
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96-Cm-244

Tape no: 9,19 Material no: 4964

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<td>2: Res. parm.</td>
<td>151: (n,res) + unres</td>
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<td>3: $\sigma(E)$</td>
<td>1: (n,tot)</td>
<td>2: (n,el)</td>
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<td>4: (n,inel)</td>
<td>16: (n,2n)</td>
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<td>17: (n,3n)</td>
<td>18: (n,f) total</td>
</tr>
<tr>
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<td>51: (n,n') lst level-</td>
<td>72: (n,n') 22nd level</td>
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<td>91: (n,n') continuum</td>
<td>102: (n,\gamma)</td>
</tr>
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<td>4: $d\sigma/d\theta$</td>
<td>2: (n,el)</td>
<td>16: (n,2n)</td>
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<td>17: (n,3n)</td>
<td>18: (n,f) total</td>
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<td>51: (n,n') lst level-</td>
<td>72: (n,n') 22nd level</td>
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<td>91: (n,n') continuum</td>
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<tr>
<td>5: $d\sigma/dE$</td>
<td>16: (n,2n)</td>
<td>17: (n,3n)</td>
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<tr>
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<td>18: (n,f) total</td>
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<td>91: (n,n') continuum</td>
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96-Cm-245

Tape no: 9,19 Material no: 4965

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<td>2: Res. parm.</td>
<td>151: (n,res) + unres</td>
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<td>3: $\sigma(E)$</td>
<td>1: (n,tot)</td>
<td>2: (n,el)</td>
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<tr>
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<td>4: (n,inel)</td>
<td>16: (n,2n)</td>
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<td>18: (n,f) total</td>
<td>19: (n,f)</td>
</tr>
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<td>20: (n,n'+f)</td>
<td>51: (n,n') lst level-</td>
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<td>66: (n,n') 16th level</td>
<td>91: (n,n') continuum</td>
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<td>102: (n,\gamma)</td>
<td>251: \mu</td>
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<td>16: (n,2n)</td>
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<td>20: (n,n'+f)</td>
<td>51: (n,n') lst level-</td>
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<td>66: (n,n') 16th level</td>
<td>91: (n,n') continuum</td>
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<td>16: (n,2n)</td>
<td>18: (n,f) total</td>
</tr>
<tr>
<td></td>
<td>19: (n,f)</td>
<td>20: (n,n'+f)</td>
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<td>91: (n,n') continuum</td>
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96-Cm-246

Tape no: 9,19 Material no: 4966

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<td>452: (n,f)$\nu$</td>
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<td>2: Res. parm.</td>
<td>151: (n,res) + unres</td>
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<tr>
<td>3: $\sigma(E)$</td>
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<td>2: (n,el)</td>
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<td>4: (n,inel)</td>
<td>16: (n,2n)</td>
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<tr>
<td></td>
<td>17: (n,3n)</td>
<td>16: (n,2n)</td>
</tr>
<tr>
<td></td>
<td>37: (n,4n)</td>
<td>51: (n,n') lst level-</td>
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| 61:         | 91:                   |
| (n,n')      | (n,n') continuum     |
| 102:        | 251:                  |
| (n,γ)       | μ                    |
| 252:        | γ                    |
| 4:          |                      |
| do/dθ       |                      |
| 2:          |                      |
| (n,e1)      | 16: (n,2n)           |
| 17:         | 37: (n,4n)           |
| (n,3n)      | 61: (n,n') continuum |
| 51:         | 91: (n,n') continuum |
| (n,n')      |                      |
| 16:         | 17: (n,3n)           |
| (n,2n)      | 37: (n,4n)           |
| 18:         | 91: (n,n') continuum |
| (n,f)total  |                      |
| 37:         | 102: (n,γ)           |
| (n,4n)      | 102: (n,γ)           |
| 102:        |                      |
| 5:          |                      |
| do/dE       |                      |
| 16:         |                      |
| (n,2n)      |                      |
| 17:         | 17: (n,3n)           |
| (n,3n)      | 102: (n,γ)           |
| 37:         | 102: (n,γ)           |
| 102:        |                      |
| 8:          |                      |
| Rdd, Fpy    |                      |
| 16:         | 17: (n,3n)           |
| (n,2n)      | 102: (n,γ)           |
| 37:         | 102: (n,γ)           |
| 102:        |                      |
| 12:         |                      |
| mult(γ)     |                      |
| 18:         | 102: (n,γ)           |
| (n,f)total  |                      |
| 102:        |                      |
| 13:         |                      |
| o(E)(γ)     |                      |
| 3:          | 102: (n,γ)           |
| (n,nonel)   |                      |
| 3:          |                      |
| (n,nonel)   |                      |
| 102:        |                      |
| 14:         |                      |
| do/dθ(γ)    |                      |
| 3:          |                      |
| (n,nonel)   |                      |
| 3:          |                      |
| (n,nonel)   |                      |
| 102:        |                      |
| 15:         |                      |
| do/dE(γ)    |                      |
| 3:          |                      |
| (n,nonel)   |                      |
| 3:          |                      |
| (n,nonel)   |                      |
| 102:        |                      |

| 451:        | 452:                  |
| (Gen. info.)| (n,f)v                |
| 2:          |                      |
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| 17:         | 37: (n,4n)           |
| (n,3n)      | 61: (n,n') continuum |
| 102:        | 102: (n,γ)           |
| (n,r)       |                      |
| 8:          |                      |
| Rdd, Fpy    |                      |
| 16:         | 17: (n,3n)           |
| (n,2n)      | 102: (n,γ)           |
| 37:         | 102: (n,γ)           |
| 102:        |                      |
| 12:         |                      |
| mult(γ)     |                      |
| 18:         | 102: (n,γ)           |
| (n,f)total  |                      |
| 102:        |                      |
| 13:         |                      |
| o(E)(γ)     |                      |
| 3:          |                      |
| (n,nonel)   |                      |
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| (n,nonel)   |                      |
| 102:        |                      |
| 14:         |                      |
| do/dθ(γ)    |                      |
| 3:          |                      |
| (n,nonel)   |                      |
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| 102:        |                      |
| 15:         |                      |
| do/dE(γ)    |                      |
| 3:          |                      |
| (n,nonel)   |                      |
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| (n,nonel)   |                      |
| 102:        |                      |

<p>| 458:        |                      |
| (n,f)E release |                  |</p>
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| **98-Cf-250** | Tape no: 9,19 Material no: 4980 |
| 1: Information | 451: (Gen. info.) | 452: (n,f)ν |
| 2: Res. parm. | 151: (n,res) + unres |
| 3: σ(E) | |
| 1: (n,tot) | 2: (n,el) |
| 4: (n,inel) | 16: (n,2n) |
| 17: (n,3n) | 18: (n,f)total |
| 37: (n,4n) | 91: (n,n')continuum |
| 102: (n,γ) | 251: μ |
| 252: γ | |
| 4: dσ/δθ | |
| 2: (n,el) | 16: (n,2n) |
| 17: (n,3n) | 37: (n,4n) |
| 91: (n,n')continuum |
| 5: dσ/δE | |
| 16: (n,2n) | 17: (n,3n) |
| 18: (n,f)total |
| 37: (n,4n) | 91: (n,n')continuum |
| 8: Rdd, Fpy | |
| 16: (n,2n) | 102: (n,γ) |
| 12: mult(γ) | |
| 18: (n,f)total |
| 102: (n,γ) |
| 13: σ(E)(γ) | |
| 3: (n,nonel) |
| 18: (n,f)total |
| 102: (n,γ) |
| 14: dσ/δθ(γ) | |
| 3: (n,nonel) |
| 18: (n,f)total |
| 102: (n,γ) |
| 15: dσ/δE(γ) | |
| 3: (n,nonel) |
| 18: (n,f)total |
| 102: (n,γ) |

<p>| <strong>98-Cf-251</strong> | Tape no: 9,19 Material no: 4981 |
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| 2: Res. parm. | 151: (n,res) + unres |
| 3: σ(E) | |
| 1: (n,tot) | 2: (n,el) |</p>
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<td>37: (n,4n)</td>
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<td>1: Information</td>
<td>451: (Gen. info.)</td>
<td>452: (n,f)v</td>
</tr>
</tbody>
</table>
98-Cf-253

<table>
<thead>
<tr>
<th>MF</th>
<th>MT</th>
<th>MT</th>
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</thead>
<tbody>
<tr>
<td>(contd)</td>
<td>98-Cf-253</td>
<td>Tape no: 9, 19 Material no: 4983</td>
</tr>
<tr>
<td>2: Res. parm.</td>
<td>151: (n, res) + unres</td>
<td></td>
</tr>
<tr>
<td>3: $\sigma(E)$</td>
<td>1: (n, tot) 2: (n, el)</td>
<td></td>
</tr>
<tr>
<td>18: (n, f) total</td>
<td>102: (n, $\gamma$)</td>
<td></td>
</tr>
<tr>
<td>251: $\mu$</td>
<td>252: $\xi$</td>
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<tr>
<td>253: $\gamma$</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4: $d\sigma/d\theta$</td>
<td>2: (n, el)</td>
<td></td>
</tr>
<tr>
<td>5: $d\sigma/dE$</td>
<td>18: (n, f) total</td>
<td></td>
</tr>
</tbody>
</table>
JOINT EVALUATED FILE INDEX

Tape no: 9,19  Material no: 4993

1: Information  451: (Gen. info.)
2: Res. parm.  151: (n, res) + unres
3: σ(E)  1: (n, tot)  2: (n, el)
   102: (n, γ)  251: μ
   252: ξ  253: γ
4: do/dθ  2: (n, el)