ENDF/B-VII ZR-93
Principal cross sections

Energy (MeV)

Cross section (barns)

- Total
- Absorption
- Elastic
ENDF/B-VII ZR-93
resonance total cross section

Energy (MeV) vs. Cross section (barns)
ENDF/B-VII ZR-93
resonance total cross section

![Graph showing the total cross section as a function of energy. The x-axis is labeled 'Energy (MeV)', the y-axis is labeled 'Cross section (barns)', and the graph shows a smooth curve with a peak at around 10^0 energy and a trough at around 10^1 energy.]
ENDF/B-VII ZR-93 resonance absorption cross sections

The graph shows the cross section (in barns) as a function of energy (in MeV). The graph includes multiple resonance peaks, indicating absorption effects at specific energy levels. The x-axis represents energy in MeV, ranging from $10^{-4}$ to $10^{-3}$, and the y-axis represents the cross section in barns, ranging from $10^{-3}$ to $10^3$. The graph highlights the capture process.
ENDF/B-VII ZR-93
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

- capture
ENDF/B-VII ZR-93
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
ENDF/B-VII ZR-93
UR total cross section

Cross section (barns) vs. Energy (MeV)

Inf. Dil.
100 b
ENDF/B-VII ZR-93
UR capture cross section

Cross section (barns)

Energy (MeV)
<table>
<thead>
<tr>
<th>Energy (MeV)</th>
<th>Damage (MeV-barns)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10^{-11}</td>
<td>10^{-6}</td>
</tr>
<tr>
<td>10^{-10}</td>
<td>10^{-5}</td>
</tr>
<tr>
<td>10^{-9}</td>
<td>10^{-4}</td>
</tr>
<tr>
<td>10^{-8}</td>
<td>10^{-3}</td>
</tr>
<tr>
<td>10^{-7}</td>
<td>10^{-2}</td>
</tr>
<tr>
<td>10^{-6}</td>
<td>10^{-1}</td>
</tr>
<tr>
<td>10^{-5}</td>
<td>10^{0}</td>
</tr>
<tr>
<td>10^{-4}</td>
<td>10^{1}</td>
</tr>
</tbody>
</table>

The diagram shows the relationship between energy (MeV) and damage (MeV-barns) for ENDF/B-VII ZR-93. The curve indicates the variation of damage with energy, with peaks and valleys at different energy levels.
ENDF/B-VII ZR-93
Non-threshold reactions

Energy (MeV)

Cross section (barns)

(n,gma)
ENDF/B-VII ZR-93
Damage

![Graph showing the relationship between damage (in MeV-barns) and energy (in MeV). The graph shows a positive correlation, with damage increasing as energy increases. The y-axis ranges from 10^{-3} to 350, and the x-axis ranges from 0 to 20 MeV.]
ENDF/B-VII ZR-93
Non-threshold reactions

Energy (MeV)

Cross section (barns)

(n, gma)
ENDF/B-VII ZR-93
Threshold reactions

Cross section (barns) vs. Energy (MeV)

*10^{-3}  (n,a)
ENDF/B-VII ZR-93
Threshold reactions

Energy (MeV)

Cross section (barns)

- *(n,xp)*
- *(n,xd)*
- *(n,xt)*
- *(n,xa)*
ENDF/B-VII ZR-93
angular distribution for elastic
ENDF/B-VII ZR-93
angular distribution for (n,3n)
ENDF/B-VII ZR-93
angular distribution for (n,n*)a
ENDF/B-VII ZR-93
angular distribution for \((n,n^*)p\)
ENDF/B-VII ZR-93
angular distribution for \((n,n^*)d\)
ENDF/B-VII ZR-93
angular distribution for (n,n*)t
ENDF/B-VII ZR-93
angular distribution for (n,n*1)
ENDF/B-VII ZR-93
angular distribution for (n,n*2)
ENDF/B-VII ZR-93
angular distribution for (n,n^3)
ENDF/B-VII ZR-93
angular distribution for \((n,n^*4)\)
ENDF/B-VII ZR-93
angular distribution for (n,n*6)
ENDF/B-VII ZR-93
angular distribution for (n,n*8)
ENDF/B-VII ZR-93
angular distribution for (n,n*9)

Energy (MeV)
ENDF/B-VII ZR-93
angular distribution for (n,n*10)
ENDF/B-VII ZR-93
angular distribution for (n,n*\alpha)
ENDF/B-VII ZR-93
Neutron emission for (n,2n)
ENDF/B-VII ZR-93
Neutron emission for (n,3n)
ENDF/B-VII ZR-93
Neutron emission for (n,n*)a
ENDF/B-VII ZR-93
Neutron emission for \((n,n^*)p\)
ENDF/B-VII ZR-93
Neutron emission for (n,n*)d

Energy (MeV)

Prob/MeV

Sec. Energy

10^{-1}

10^{0}

10^{1}

10^{2}

10^{3}
ENDF/B-VII ZR-93
Neutron emission for \((n,n^*)t\)
ENDF/B-VII ZR-93
Neutron emission for (n,n*c)