ENDF/B-VII.1 BK-249
Principal cross sections

Energy (MeV)

Cross section (barns)

- total
- absorption
- elastic
- gamma production

Energy (MeV)
ENDF/B-VII.1 BK-249
resonance total cross section

Energy (MeV)

Cross section (barns)

10^{-7} 10^{-6} 10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4

total

10^{-7} 10^{-6}
ENDF/B-VII.1 BK-249
resonance total cross section

Energy (MeV)

Cross section (barns)

10^{-6} 10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1}

10^1 10^2 10^3 10^4

Energy (MeV)
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resonance total cross section

.png
ENDF/B-VII.1 BK-249
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

- capture
- fission
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resonance absorption cross sections

Energy (MeV) vs. Cross section (barns)

- Capture (solid line)
- Fission (dashed line)
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resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture
fission
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UR elastic cross section

Cross section (barns)

Energy (MeV)

Inf. Dil.
100 b
1 b
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UR fission cross section

Cross section (barns)

Energy (MeV)
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UR capture cross section

Cross section (barns) vs. Energy (MeV)
ENDF/B-VII.1 BK-249 Damage

Energy (MeV) vs. Damage (MeV-barns) graph.
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Non-threshold reactions

![Graph showing non-threshold reactions](image-url)
ENDF/B-VII.1 BK-249
Principal cross sections

Energy (MeV)

Cross section (barns)

total
absorption
elastic
gamma production
ENDF/B-VII.1 BK-249 Damage

Energy (MeV) vs. Damage (MeV-barns)

- The graph shows the relationship between energy (in MeV) and damage (in MeV-barns).
- The damage increases linearly with energy.

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Non-threshold reactions

Energy (MeV)

Cross section (barns)

- fission
- (n,gma)
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Threshold reactions

Cross section (barns)

Energy (MeV)

(n,2n)
(n,3n)
(n,4n)
(n,n*c)
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angular distribution for elastic
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angular distribution for (n,n*1)
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angular distribution for (n,n*2)
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angular distribution for \((n,n^*3)\)
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angular distribution for (n,n*4)
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angular distribution for \( (n,n^*5) \)

![Graph showing angular distribution for \( (n,n^*5) \).](image-url)
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angular distribution for (n,n*6)
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angular distribution for (n,n*7)
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angular distribution for (n,n*8)
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angular distribution for (n,n*9)
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angular distribution for (n,n*10)
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Total fission nubar

Energy (MeV)

Fission nubar

Energy (MeV)
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Neutron emission for (n,2n)
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Neutron emission for (n,3n)
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Neutron emission for fission

Diagram showing the distribution of neutron emission probability for different energies and secondary energies.
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Neutron emission for (n,4n)
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Neutron emission for (n,n*c)
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Photon emission for fission
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Photon emission for (n,2n)
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Photon emission for (n,3n)
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Photon emission for (n,4n)
Photon emission for (n,n*1)
Photon emission for (n,n*2)

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Prob/MeV

$E_{\gamma}$ (MeV)

$E_n$ (MeV)
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Photon emission for (n,n*3)
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Photon emission for (n,n*4)
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Photon emission for (n,n*5)
Photon emission for \((n,n\ast 6)\)
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Photon emission for (n,n*7)
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Photon emission for (n,n*8)
Photon emission for (n,n*9)

$E_\gamma (\text{MeV})$

$E_n (\text{MeV})$

Prob/MeV
Photon emission for \((n,n^*10)\)

\[
\begin{align*}
P & \text{Prob/MeV} \\
E_n (\text{MeV}) & 0.0 \quad 0.2 \\
E_y (\text{MeV}) & 0.0 \quad 0.1 \quad 0.2
\end{align*}
\]
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Photon emission for (n,gma)
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thermal capture photon spectrum

Gamma Prod (barns/MeV)

Gamma Energy (MeV)
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14 MeV photon spectrum

Gamma Energy (MeV)
Gamma Prod (barns/MeV)