ENDF/B-VII TA-181
Principal cross sections

Energy (MeV)

Cross section (barns)

- total
- absorption
- elastic
- gamma production

Energy (MeV)
ENDF/B-VII TA-181
resonance total cross section

Energy (MeV)

Cross section (barns)

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

total
ENDF/B-VII TA-181
resonance total cross section

Cross section (barns)

Energy (MeV)
ENDF/B-VII TA-181
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
ENDF/B-VII TA-181
resonance absorption cross sections

- Energy (MeV)
- Cross section (barns)

Graph showing the relationship between energy (MeV) and cross section (barns) for capture.
ENDF/B-VII TA-181
UR capture cross section

Energy (MeV)

Cross section (barns)

Inf. Dil.
100 b
ENDF/B-VII TA-181
Heating

Energy (MeV) vs. Heating (MeV/reaction) graph.

- Energy axis ranges from $10^{-11}$ to $10^1$ MeV.
- Heating axis ranges from $10^{-6}$ to $10^0$ MeV/reaction.

The graph shows a complex pattern with peaks at specific energies.
ENDF/B-VII TA-181
Damage

Energy (MeV)

Damage (MeV-barns)
ENDF/B-VII TA-181
Damage

Energy (MeV)

Damage (MeV-barns)

*10^{-3}
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Non-threshold reactions

Energy (MeV)

Cross section (barns)

$(n,gma)$
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Inelastic levels

Energy (MeV)

Cross section (barns)

Energy (MeV)

(n,n*1)
(n,n*2)
(n,n*3)
(n,n*4)
(n,n*5)
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Threshold reactions

Cross section (barns) vs. Energy (MeV) for the reaction (n,xp)
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angular distribution for elastic
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angular distribution for (n,2n)
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angular distribution for (n,3n)
Angular distribution for (n,n*1)

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Energy (MeV)

Cosine

Prob/Cos

Prob/Cos

0.5 0.0 -0.5 -1.0

Energy (MeV)

Prob/Cos

0.5 0.0 -0.5 -1.0
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angular distribution for (n,n*2)
ENDF/B-VII TA-181

Angular distribution for (n,n^3)

Energy (MeV)

Prob/Cos

Cosine

Engrg (MeV)

P
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angular distribution for (n,n*4)
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angular distribution for \((n,n^*5)\)
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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)
ENDF/B-VII TA-181

Angular distribution for (n,n′c)
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Neutron emission for (n,2n)
ENDF/B-VII TA-181
Neutron emission for (n,3n)
ENDF/B-VII TA-181
Neutron emission for \((n,n^*c)\)
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Photon emission for (n,gma)
ENDF/B-VII TA-181
Photon emission for nonelastic
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thermal capture photon spectrum

Gamma Energy (MeV)

Gamma Prod (barns/MeV)

10^2
10^1
10^0

Gamma Energy (MeV)
ENDF/B-VII TA-181
14 MeV photon spectrum