Principal cross sections

Energy (MeV) vs. Cross section (barns)

- Total
- Absorption
- Elastic
ENDF/B-VII.1 BR-81 resonance total cross section

Energy (MeV) vs. Cross section (barns)
ENDF/B-VII.1 BR-81
resonance total cross section

Energy (MeV) vs. Cross section (barns) plot.
ENDF/B-VII.1 BR-81
resonance total cross section
ENDF/B-VII.1 BR-81
resonance total cross section
ENDF/B-VII.1 BR-81
resonance total cross section

Cross section (barns)

Energy (MeV)
ENDF/B-VII.1 BR-81
resonance absorption cross sections
ENDF/B-VII.1 BR-81
resonance absorption cross sections

Cross section (barns)

Capture
ENDF/B-VII.1 BR-81
resonance absorption cross sections

![Graph showing resonance absorption cross sections with energy on the x-axis and cross section on the y-axis, with a logarithmic scale for both axes. The graph includes a label for capture.](image-url)
ENDF/B-VII.1 BR-81
resonance absorption cross sections
ENDF/B-VII.1 BR-81
resonance absorption cross sections

Energy (MeV) vs. Cross section (barns)

- Capture curve

Cross section (barns)

10^{-2} - 10^{-1}

Energy (MeV)
ENDF/B-VII.1 BR-81
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture
ENDF/B-VII.1 BR-81
UR total cross section

Energy (MeV) vs. Cross section (barns)

- Inf. Dil.
- 100 b
- 1 b

The graph shows the energy (in MeV) on the x-axis and the cross section (in barns) on the y-axis. The cross section decreases as the energy increases, with different lines representing different cross sections.
ENDF/B-VII.1 BR-81
UR elastic cross section

Energy (MeV)

Cross section (barns)

Inf. Dil.

100 b

1 b
ENDF/B-VII.1 BR-81
UR capture cross section

Energy (MeV)
Cross section (barns)

Inf. Dil. 100 b 1 b
ENDF/B-VII.1 BR-81 Heating

Energy (MeV) vs Heating (MeV/reaction) graph.
ENDF/B-VII.1 BR-81
Damage

Energy (MeV)

Damage (MeV-barns)

damage
ENDF/B-VII.1 BR-81

Non-threshold reactions

Energy (MeV)

Cross section (barns)
ENDF/B-VII.1 BR-81
Inelastic levels

Energy (MeV)

Cross section (barns)

-10^{-3}

(n,n*6)
(n,n*7)
(n,n*8)
(n,n*9)
(n,n*10)

Energy (MeV)
ENDF/B-VII.1 BR-81
Inelastic levels

Energy (MeV)

Cross section (barns)

- \((n,n*16)\)
- \((n,n*17)\)
- \((n,n*18)\)
- \((n,n*19)\)
- \((n,n*20)\)
ENDF/B-VII.1 BR-81
Inelastic levels

Cross section (barns) vs. Energy (MeV)

- (n,n*26)
ENDF/B-VII.1 BR-81
Threshold reactions

Cross section (barns) vs. Energy (MeV)

- (n,n*)t
- (n,n*c)
- (n,p)
- (n,d)
- (n,t)
ENDF/B-VII.1 BR-81
Threshold reactions

Energy (MeV)

Cross section (barns)

*10^{-3}

(n,a)
ENDF/B-VII.1 BR-81
angular distribution for elastic
ENDF/B-VII.1 BR-81
angular distribution for (n,2n)
ENDF/B-VII.1 BR-81
angular distribution for (n,3n)
ENDF/B-VII.1 BR-81
angular distribution for (n,n*)a
ENDF/B-VII.1 BR-81
angular distribution for (n,n*)p
ENDF/B-VII.1 BR-81
angular distribution for (n,n*)d
ENDF/B-VII.1 BR-81 angular distribution for \((n,n^*)t\)
ENDF/B-VII.1 BR-81
angular distribution for (n,n*1)
ENDF/B-VII.1 BR-81
angular distribution for (n,n*2)
ENDF/B-VII.1 BR-81
angular distribution for (n,n*3)
ENDF/B-VII.1 BR-81
angular distribution for (n,n*4)
ENDF/B-VII.1 BR-81
angular distribution for (n,n*5)
ENDF/B-VII.1 BR-81
angular distribution for (n,n*6)
ENDF/B-VII.1 BR-81
angular distribution for (n,n*7)
ENDF/B-VII.1 BR-81
angular distribution for (n,n*8)
ENDF/B-VII.1 BR-81
angular distribution for (n,n*9)
ENDF/B-VII.1 BR-81
angular distribution for \((n,n*10)\)
ENDF/B-VII.1 BR-81
angular distribution for (n,n*11)
ENDF/B-VII.1 BR-81
angular distribution for (n,n*12)
ENDF/B-VII.1 BR-81
angular distribution for (n,n*13)
ENDF/B-VII.1 BR-81
angular distribution for (n,n*14)
ENDF/B-VII.1 BR-81
angular distribution for (n,n*15)
ENDF/B-VII.1 BR-81
angular distribution for (n,n*16)
ENDF/B-VII.1 BR-81
angular distribution for (n,n*17)
ENDF/B-VII.1 BR-81
angular distribution for (n,n*18)
ENDF/B-VII.1 BR-81
angular distribution for (n,n*19)
ENDF/B-VII.1 BR-81
angular distribution for (n,n*20)
ENDF/B-VII.1 BR-81
angular distribution for (n,n*21)
ENDF/B-VII.1 BR-81
angular distribution for (n,n*22)
ENDF/B-VII.1 BR-81
angular distribution for (n,n*23)
ENDF/B-VII.1 BR-81
angular distribution for (n,n*24)
ENDF/B-VII.1 BR-81
angular distribution for \((n,n^*25)\)
ENDF/B-VII.1 BR-81
angular distribution for (n,n*26)
ENDF/B-VII.1 BR-81
angular distribution for (n,n*c)
ENDF/B-VII.1 BR-81
Neutron emission for (n,2n)
ENDF/B-VII.1 BR-81
Neutron emission for (n,3n)
ENDF/B-VII.1 BR-81
Neutron emission for (n,n*)a
ENDF/B-VII.1 BR-81
Neutron emission for (n,n*)p
ENDF/B-VII.1 BR-81
Neutron emission for (n,n*)d

Prob/MeV

Energy (MeV)

Sec. Energy

1 2 3 15 16 17 18 19 20
ENDF/B-VII.1 BR-81
Neutron emission for (n,n*)t
ENDF/B-VII.1 BR-81
Neutron emission for (n,n*\text{c})