ENDF/B-VII.1 CD-106
resonance total cross section
ENDF/B-VII.1 CD-106
resonance total cross section

Energy (MeV)

Cross section (barns)

10^0 10^1

total
ENDF/B-VII.1 CD-106
resonance absorption cross sections

![Graph showing energy and cross section relationship](image-url)
ENDF/B-VII.1 CD-106
resonance absorption cross sections

Energy (MeV)
Cross section (barns)

-10
10
-2
10
-1
10
0
10
1

capture
ENDF/B-VII.1 CD-106
UR total cross section

Energy (MeV) vs. Cross section (barns)

- Inf. Dil.
- 100 b
- 1 b
ENDF/B-VII.1 CD-106
UR elastic cross section

Cross section (barns) vs. Energy (MeV)

Inf. Dil.
100 b
1 b
ENDF/B-VII.1 CD-106
Non-threshold reactions

Energy (MeV)

Cross section (barns)

(n,gma)
ENDF/B-VII.1 CD-106
Damage

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

- Damage increases with increasing energy.
- The graph shows a trend of damage rising as energy increases from 0 to 20 MeV.

The damage is plotted on a logarithmic scale, indicating the energy scale is linear.
ENDF/B-VII.1 CD-106
Non-threshold reactions

Cross section (barns) vs. Energy (MeV)

(n,gma)
ENDF/B-VII.1 CD-106
Inelastic levels

Cross section (barns)

Energy (MeV)
ENDF/B-VII.1 CD-106
Threshold reactions

Energy (MeV)

Cross section (barns)

(n,a)

(n,2p)
ENDF/B-VII.1 CD-106
angular distribution for elastic

Energy (MeV)

Prob/Cos

Cosine

10^1
10^-1
10^-3
ENDF/B-VII.1 CD-106
angular distribution for (n,3n)
ENDF/B-VII.1 CD-106
angular distribution for \((n,n^*)a\)
ENDF/B-VII.1 CD-106
angular distribution for (n,n*)p

Prob/Cos

10^{0}

10^{-1}

10^{-2}

10^{-3}

Energy (MeV)

8 10 12 14 16 18 20

Cosine -1.0 -0.5 0.0 0.5 1.0
ENDF/B-VII.1 CD-106
angular distribution for (n,n*)d
ENDF/B-VII.1 CD-106
angular distribution for (n,n*1)
ENDF/B-VII.1 CD-106
angular distribution for (n,n*2)
ENDF/B-VII.1 CD-106
angular distribution for (n,n*3)
ENDF/B-VII.1 CD-106
angular distribution for (n,n*4)
ENDF/B-VII.1 CD-106
angular distribution for (n,n*5)
ENDF/B-VII.1 CD-106
angular distribution for (n,n*6)
ENDF/B-VII.1 CD-106
angular distribution for \((n,n^*7)\)
ENDF/B-VII.1 CD-106
angular distribution for (n,n*8)
ENDF/B-VII.1 CD-106
angular distribution for (n,n*10)
ENDF/B-VII.1 CD-106
angular distribution for (n,n*11)
ENDF/B-VII.1 CD-106
angular distribution for \((n,n^*c)\)
ENDF/B-VII.1 CD-106
Neutron emission for (n,2n)
ENDF/B-VII.1 CD-106
Neutron emission for (n,3n)
ENDF/B-VII.1 CD-106
Neutron emission for \((n,n^*)a\)
ENDF/B-VII.1 CD-106
Neutron emission for \((n,n^*)p\)
ENDF/B-VII.1 CD-106
Neutron emission for \((n,n^*)d\)
ENDF/B-VII.1 CD-106
Neutron emission for (n,n*c)
ENDF/B-VII.1 CD-106
Photon emission for (n,2n)
ENDF/B-VII.1 CD-106
Photon emission for (n,n*)a
ENDF/B-VII.1 CD-106
Photon emission for (n,n*)p
ENDF/B-VII.1 CD-106
Photon emission for \((n,n^*c)\)
ENDF/B-VII.1 CD-106
Photon emission for (n,gma)
Photon emission for (n,p)
ENDF/B-VII.1 CD-106
Photon emission for (n,a)
ENDF/B-VII.1 CD-106
14 MeV photon spectrum