ENDF/B-VII BR-79
Principal cross sections

Energy (MeV)

Cross section (barns)

- total
- absorption
- elastic

Energy (MeV)
ENDF/B-VII BR-79
resonance total cross section
ENDF/B-VII BR-79
resonance total cross section

Energy (MeV)

Cross section (barns)
ENDF/B-VII BR-79
resonance total cross section
ENDF/B-VII BR-79
resonance total cross section

Energy (MeV) vs. Cross section (barns)

- Total cross section as a function of energy.
- The cross section decreases with increasing energy.

Log-log scale for both axes.
ENDF/B-VII BR-79
resonance total cross section

Cross section (barns)

Energy (MeV)
ENDF/B-VII BR-79
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
ENDF/B-VII BR-79
resonance absorption cross sections

- Energy (MeV)
- Cross section (barns)

capture
ENDF/B-VII BR-79
resonance absorption cross sections

Energy (MeV)

Cross section (barns)
ENDF/B-VII BR-79
resonance absorption cross sections

Energy (MeV) vs. Cross section (barns)

- Capture process is depicted by a line graph.
ENDF/B-VII BR-79
resonance absorption cross sections
ENDF/B-VII BR-79
UR total cross section

Cross section (barns)

Energy (MeV)
ENDF/B-VII BR-79
UR elastic cross section

Cross section (barns)

Energy (MeV)

Inf. Dil. 100 b
ENDF/B-VII BR-79
UR capture cross section

Energy (MeV)

Cross section (barns)

Inf. Dil.
100 b

10^{-2}

10^{-1}

10^{0}
ENDF/B-VII BR-79
Non-threshold reactions

Cross section (barns)

Energy (MeV)
ENDF/B-VII BR-79
Inelastic levels

Energy (MeV)

Cross section (barns)

(n,n*1)
(n,n*2)
(n,n*3)
(n,n*4)
(n,n*5)
ENDF/B-VII BR-79
Inelastic levels

Cross section (barns)

Energy (MeV)

(n,n*11)
(n,n*12)
(n,n*13)
(n,n*14)
(n,n*15)
ENDF/B-VII BR-79
Threshold reactions

Cross section (barns)

Energy (MeV)
ENDF/B-VII BR-79
Threshold reactions

![Graph showing cross-sections for different reactions as a function of energy (MeV)].

- *(n,xp)*
- *(n,xd)*
- *(n,xt)*
- *(n,xhe3)*
- *(n,xa)*
ENDF/B-VII BR-79
angular distribution for elastic
ENDF/B-VII BR-79
angular distribution for (n,2n)
ENDF/B-VII BR-79
angular distribution for (n,3n)
ENDF/B-VII BR-79
angular distribution for (n,n*)a
ENDF/B-VII BR-79
angular distribution for (n,n*)p
ENDF/B-VII BR-79
angular distribution for \((n,n^*)d\)
ENDF/B-VII BR-79
angular distribution for (n,n*)t
ENDF/B-VII BR-79
angular distribution for (n,n*1)

Energy (MeV)
0.0 0.5 1.0

Cosine

ProB/Cos

10 0.5 1.0
angular distribution for (n,n^2)

ENDF/B-VII BR-79

Energy (MeV)
ENDF/B-VII BR-79
angular distribution for \((n,n^*3)\)
ENDF/B-VII BR-79
angular distribution for \((n,n^4)\)
ENDF/B-VII BR-79
angular distribution for \((n,n^*5)\)
ENDF/B-VII BR-79
angular distribution for (n,n*7)
ENDF/B-VII BR-79
angular distribution for \(\text{(n,n*8)}\)
ENDF/B-VII BR-79
angular distribution for \((n, n^*9)\)
ENDF/B-VII BR-79
angular distribution for (n,n*10)
ENDF/B-VII BR-79
angular distribution for (n,n*13)
angular distribution for (n,n*14)

ENDF/B-VII BR-79
ENDF/B-VII BR-79
angular distribution for \((n,n^*15)\)
ENDF/B-VII BR-79
angular distribution for \((n, n^*16)\)
ENDF/B-VII BR-79
angular distribution for \((n,n^*18)\)
ENDF/B-VII BR-79
angular distribution for \((n,n^*19)\)
ENDF/B-VII BR-79
angular distribution for (n,n*20)
ENDF/B-VII BR-79
angular distribution for \((n,n^{*21})\)
ENDF/B-VII BR-79
angular distribution for \((n,n^{*22})\)
ENDF/B-VII BR-79
angular distribution for (n,n*23)
ENDF/B-VII BR-79
angular distribution for (n,n^24)
ENDF/B-VII BR-79
angular distribution for (n,n*25)
ENDF/B-VII BR-79
angular distribution for (n,n*26)
ENDF/B-VII BR-79
angular distribution for (n,n*28)

Energy (MeV)

Cosine

Probability
ENDF/B-VII BR-79
angular distribution for \((n,n^{*29})\)
ENDF/B-VII BR-79
angular distribution for \((n,n^*c)\)
ENDF/B-VII BR-79
Neutron emission for (n,2n)
ENDF/B-VII BR-79
Neutron emission for (n,3n)
ENDF/B-VII BR-79
Neutron emission for \((n, n^*)a\)
ENDF/B-VII BR-79
Neutron emission for \((n,n^*)p\)
ENDF/B-VII BR-79
Neutron emission for (n,n*)d
ENDF/B-VII BR-79
Neutron emission for (n,n*)t
ENDF/B-VII BR-79
Neutron emission for (n,n*c)