Principal cross sections

Energy (MeV) vs. Cross section (barns)

- Total
- Absorption
- Elastic
ENDF/B-VII.1 SE-79
resonance total cross section
ENDF/B-VII.1 SE-79
resonance total cross section

Energy (MeV)

Cross section (barns)

10^0

10^1

total
ENDF/B-VII.1 SE-79
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

10^{-1}

10^{0}

capture
ENDF/B-VII.1 SE-79
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

Capture
ENDF/B-VII.1 SE-79
UR total cross section

[Graph showing the relationship between energy (MeV) and cross section (barns) for different dilutions, labeled as Inf. Dil., 100 b, and 1 b.]
ENDF/B-VII.1 SE-79
UR elastic cross section

Energy (MeV)

Cross section (barns)

Inf. Dil.
100 b
1 b

Energy (MeV)
ENDF/B-VII.1 SE-79
UR capture cross section
ENDF/B-VII.1 SE-79
Non-threshold reactions

Energy (MeV)

Cross section (barns)

(n,gma)
ENDF/B-VII.1 SE-79
Damage

Energy (MeV)

Damage (MeV-barns)

*10^-3

damage

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Energy (MeV)
ENDF/B-VII.1 SE-79
Non-threshold reactions

Energy (MeV)

Cross section (barns)

(n,gma)
ENDF/B-VII.1 SE-79
Inelastic levels

Energy (MeV)

Cross section (barns)

(n,n\*6)

(n,n\*7)

(n,n\*8)

(n,n\*9)

(n,n\*10)

Energy (MeV)
Threshold reactions

Energy (MeV)

Cross section (barns)

*(n,a)*
ENDF/B-VII.1 SE-79
angular distribution for elastic
ENDF/B-VII.1 SE-79
angular distribution for (n,2n)
ENDF/B-VII.1 SE-79
angular distribution for (n,3n)
ENDF/B-VII.1 SE-79
angular distribution for (n,n*)a
ENDF/B-VII.1 SE-79
angular distribution for (n,n*)p
ENDF/B-VII.1 SE-79
angular distribution for \((n,n^*)d\)
ENDF/B-VII.1 SE-79
angular distribution for (n,n*1)
ENDF/B-VII.1 SE-79
angular distribution for (n,n*2)
ENDF/B-VII.1 SE-79
angular distribution for (n,n*3)
ENDF/B-VII.1 SE-79
angular distribution for (n,n*4)
ENDF/B-VII.1 SE-79
angular distribution for (n,n*5)
ENDF/B-VII.1 SE-79
angular distribution for (n,n*6)
ENDF/B-VII.1 SE-79
angular distribution for (n,n*7)
ENDF/B-VII.1 SE-79
angular distribution for \((n,n^*8)\)
ENDF/B-VII.1 SE-79
angular distribution for \((n,n^*9)\)
ENDF/B-VII.1 SE-79
angular distribution for (n,n*10)
ENDF/B-VII.1 SE-79
angular distribution for (n,n*11)
ENDF/B-VII.1 SE-79
angular distribution for (n,n*12)
ENDF/B-VII.1 SE-79
angular distribution for (n,n*13)
ENDF/B-VII.1 SE-79
angular distribution for (n,n*14)
ENDF/B-VII.1 SE-79
angular distribution for (n,n*15)
ENDF/B-VII.1 SE-79
angular distribution for (n,n*16)
ENDF/B-VII.1 SE-79
angular distribution for (n,n*17)
ENDF/B-VII.1 SE-79
angular distribution for (n,n*18)
ENDF/B-VII.1 SE-79
angular distribution for (n,n*19)
ENDF/B-VII.1 SE-79
angular distribution for (n,n*20)
ENDF/B-VII.1 SE-79
angular distribution for (n,n*21)
ENDF/B-VII.1 SE-79
angular distribution for (n,n*22)
ENDF/B-VII.1 SE-79
angular distribution for (n,n*23)
ENDF/B-VII.1 SE-79
angular distribution for (n,n*24)
ENDF/B-VII.1 SE-79
angular distribution for (n,n*25)
ENDF/B-VII.1 SE-79
angular distribution for (n,n*26)
ENDF/B-VII.1 SE-79
angular distribution for \((n,n^*27)\)
ENDF/B-VII.1 SE-79
angular distribution for (n,n*28)
ENDF/B-VII.1 SE-79
angular distribution for (n,n*29)
ENDF/B-VII.1 SE-79
angular distribution for (n,n*c)
ENDF/B-VII.1 SE-79
Neutron emission for (n,2n)
ENDF/B-VII.1 SE-79
Neutron emission for (n,3n)
ENDF/B-VII.1 SE-79
Neutron emission for \((n,n^*)a\)
ENDF/B-VII.1 SE-79
Neutron emission for \((n,n^*)p\)
ENDF/B-VII.1 SE-79
Neutron emission for (n,n*)d
ENFD/B-VII.1 SE-79
Neutron emission for (n,n*c)