ENDF/B-VII.1 W-183
Principal cross sections

Cross section (barns)

Energy (MeV)

- total
- absorption
- elastic
- gamma production
ENDF/B-VII.1 W-183
resonance total cross section
ENDF/B-VII.1 W-183
resonance total cross section
ENDF/B-VII.1 W-183
resonance total cross section

Energy (MeV)

Cross section (barns)
ENDF/B-VII.1 W-183 resonance absorption cross sections
ENDF/B-VII.1 W-183
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

Capture
ENDF/B-VII.1 W-183
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
ENDF/B-VII.1 W-183
resonance absorption cross sections
ENDF/B-VII.1 W-183
UR total cross section

Energy (MeV) vs Cross section (barns)

- Inf. Dil.
- 100 b
- 1 b

Energy (MeV) and Cross section (barns) relationship for ENDF/B-VII.1 W-183.
ENDF/B-VII.1 W-183
UR elastic cross section

Cross section (barns) vs. Energy (MeV)

- Inf. Dil.
- 100 b
- 1 b
ENDF/B-VII.1 W-183
UR capture cross section

Energy (MeV)

Cross section (barns)

10^{-2}

Inf. Dil.
100 b
1 b
ENDF/B-VII.1 W-183

Heating

Heating (MeV/reaction) vs. Energy (MeV)
ENDF/B-VII.1 W-183
Non-threshold reactions

Energy (MeV)

Cross section (barns)

10^{-11} 10^{-9} 10^{-7} 10^{-5} 10^{-3} 10^{-1} 10^1

10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4

(n,gma)
ENDF/B-VII.1 W-183 Damage

![Graph showing the relationship between energy (MeV) and damage (MeV-barns). The graph indicates an increasing trend in damage with increasing energy.]
ENDF/B-VII.1 W-183
Non-threshold reactions

Cross section (barns)

Energy (MeV)
ENDF/B-VII.1 W-183

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.1 W-183
Inelastic levels

Energy (MeV)

Cross section (barns)

*(n,n*6) *(n,n*7) *(n,n*8) *(n,n*9) *(n,n*10)
ENDF/B-VII.1 W-183
Inelastic levels

Energy (MeV)

Cross section (barns)

(n,n*11)
ENDF/B-VII.1 W-183
Threshold reactions

Energy (MeV)

Cross section (barns)

- (n,xp)
- (n,xa)
- (n,p^0)
- (n,p^1)
- (n,p^2)
ENDF/B-VII.1 W-183
Threshold reactions

Cross section (barns)

Energy (MeV)
ENDF/B-VII.1 W-183
Threshold reactions

Cross section (barns) vs. Energy (MeV) for various threshold reactions:
- (n,p*8)
- (n,p*9)
- (n,p*10)
- (n,p*11)
- (n,p*12)

The graph shows the cross sections for these reactions as a function of energy.
ENDF/B-VII.1 W-183
Threshold reactions

Cross section (barns) vs. Energy (MeV)

- (n,p*13)
- (n,p*14)
- (n,p*c)
- (n,a*0)
- (n,a*1)
ENDF/B-VII.1 W-183
Threshold reactions

Energy (MeV)

Cross section (barns)

(n,a*17)
(n,a*18)
(n,a*19)
(n,a*20)
(n,a*21)
ENDF/B-VII.1 W-183
angular distribution for elastic
ENDF/B-VII.1 W-183
angular distribution for elastic
ENDF/B-VII.1 W-183
angular distribution for (n,n*1)
ENDF/B-VII.1 W-183
angular distribution for \((n,n*1)\)
ENDF/B-VII.1 W-183
angular distribution for \((n,n^*2)\)
ENDF/B-VII.1 W-183
angular distribution for \((n,n^3)\)
ENDF/B-VII.1 W-183
angular distribution for \((n,n^*3)\)
ENDF/B-VII.1 W-183
angular distribution for (n,n*4)
ENDF/B-VII.1 W-183
angular distribution for (n,n^4)
ENDF/B-VII.1 W-183
angular distribution for (n,n*5)
ENDF/B-VII.1 W-183
angular distribution for (n,n*5)
ENDF/B-VII.1 W-183
angular distribution for (n,n*6)
ENDF/B-VII.1 W-183
angular distribution for (n,n*6)
ENDF/B-VII.1 W-183
angular distribution for (n,n*7)
ENDF/B-VII.1 W-183
angular distribution for (n,n*7)
ENDF/B-VII.1 W-183
angular distribution for (n,n*8)
ENDF/B-VII.1 W-183
angular distribution for \((n,n^*8)\)
ENDF/B-VII.1 W-183
angular distribution for \((n,n^*9)\)
ENDF/B-VII.1 W-183
angular distribution for (n,n*9)
ENDF/B-VII.1 W-183
angular distribution for \((n,n\ast10)\)
ENDF/B-VII.1 W-183
angular distribution for (n,n*10)
ENDF/B-VII.1 W-183
angular distribution for (n,n*11)
ENDF/B-VII.1 W-183
angular distribution for (n,n*11)
ENDF/B-VII.1 W-183
Neutron emission for (n,x)
ENDF/B-VII.1 W-183
Neutron emission for (n,2n)
ENDF/B-VII.1 W-183
Neutron emission for (n,3n)
ENDF/B-VII.1 W-183
Neutron emission for (n,n*)p
ENDF/B-VII.1 W-183
Neutron emission for (n,4n)
ENDF/B-VII.1 W-183
Neutron emission for (n,2np)
ENDF/B-VII.1 W-183
Neutron emission for (n,n*c)
ENDF/B-VII.1 W-183
Photon emission for (n,2n)
ENDF/B-VII.1 W-183
Photon emission for (n,3n)
ENDF/B-VII.1 W-183
Photon emission for (n,n*)p
ENDF/B-VII.1 W-183
Photon emission for (n,4n)
ENDF/B-VII.1 W-183
Photon emission for (n,2np)
ENDF/B-VII.1 W-183
Photon emission for \((n,n^*c)\)
ENDF/B-VII.1 W-183
Photon emission for (n,gma)
ENDF/B-VII.1 W-183
Photon emission for (n,p*c)
ENDF/B-VII.1 W-183
Photon emission for (n,a*c)
ENDF/B-VII.1 W-183
thermal capture photon spectrum

Gamma Energy (MeV)

Gamma Prod (barns/MeV)
ENDF/B-VII.1 W-183
14 MeV photon spectrum
Particle heating contributions

Energy (MeV)

MeV/collision

Energy (MeV)

protons

alphas
ENDF/B-VII.1 W-183
Recoil Heating

![Graph showing recoil heating as a function of energy in MeV.](image-url)
ENDF/B-VII.1 W-183 protons from (n,x)
ENDF/B-VII.1 W-183
protons from \((n,n^*)p\)
ENDF/B-VII.1 W-183
protons from (n,2np)
ENDF/B-VII.1 W-183
angular distribution for (n,p*0) proton
ENDF/B-VII.1 W-183
angular distribution for \((n,p^*0)\) proton
ENDF/B-VII.1 W-183 angular distribution for (n,p*1) proton
ENDF/B-VII.1 W-183
angular distribution for (n,p*1) proton
ENDF/B-VII.1 W-183
angular distribution for (n,p*2) proton
ENDF/B-VII.1 W-183
angular distribution for (n,p*2) proton
ENDF/B-VII.1 W-183
angular distribution for (n,p*3) proton
ENDF/B-VII.1 W-183
angular distribution for (n,p*3) proton

Prob/Cos

Cosine

Energy (MeV)

10^0

10^-1

1.0 0.5 0.0 -0.5 -1.0 20 40 60 80 100
ENDF/B-VII.1 W-183
angular distribution for (n,p*4) proton
ENDF/B-VII.1 W-183
angular distribution for (n,p^4) proton

Proba/Cos

10^0

10^-1

1.0 0.5 0.0 -0.5 -1.0 20 40 60 80 100 120 140 160

Energy (MeV)

Cosine
ENDF/B-VII.1 W-183 angular distribution for (n,p*5) proton
ENDF/B-VII.1 W-183 angular distribution for (n,p*5) proton
ENDF/B-VII.1 W-183
angular distribution for (n,p*6) proton
ENDF/B-VII.1 W-183
angular distribution for (n,p*6) proton
ENDF/B-VII.1 W-183
angular distribution for (n,p*7) proton
ENDF/B-VII.1 W-183
angular distribution for (n,p*7) proton
ENDF/B-VII.1 W-183 angular distribution for (n,p*8) proton
ENDF/B-VII.1 W-183
angular distribution for (n,p*8) proton
ENDF/B-VII.1 W-183
angular distribution for (n,p*9) proton
ENDF/B-VII.1 W-183
angular distribution for (n,p*10) proton
ENDF/B-VII.1 W-183
angular distribution for (n,p*10) proton
ENDF/B-VII.1 W-183
angular distribution for (n,p*11) proton
ENDF/B-VII.1 W-183
angular distribution for (n,p*11) proton
ENDF/B-VII.1 W-183
angular distribution for (n,p*12) proton
ENDF/B-VII.1 W-183
angular distribution for (n,p*13) proton
ENDF/B-VII.1 W-183
angular distribution for (n,p*13) proton
ENDF/B-VII.1 W-183 angular distribution for (n,p*14) proton
ENDF/B-VII.1 W-183
angular distribution for (n,p*14) proton
ENDF/B-VII.1 W-183
protons from (n,p*c)
ENDF/B-VII.1 W-183
alphas from (n,x)
ENDF/B-VII.1 W-183
angular distribution for (n,a*0) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,a*0) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,a*1) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,a\(^{*}\)1) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,a^2) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,α^2) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,a*3) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,a*3) alpha
ENDF/B-VII.1 W-183
angular distribution for \((n,a^*4)\) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,a^4) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,a*5) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,a*5) alpha
angular distribution for (n,a*6) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,a*6) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,a*7) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,a*7) alpha

Prob/Cos

10^0

10^-1

Energy (MeV)

Cosine

0.5 0.0 -0.5 -1.0

20 40 60 80 100 120 140 160

1.0
ENDF/B-VII.1 W-183
angular distribution for (n,a*8) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,a*9) alpha

Energy (MeV)

Cosine

Prob/Cos

10^{-1}

10^{0}

10^{1}

1.0 0.5 0.0 -0.5 -1.0 0
ENDF/B-VII.1 W-183
angular distribution for (n,a*9) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,α*10) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,a*10) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,a*11) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,a*11) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,a*12) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,a*12) alpha
ENDF/B-VII.1 W-183
angular distribution for \((n,a^*13)\) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,a*13) alpha
ENDF/B-VII.1 W-183
angular distribution for \((n,a^*14)\) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,a*14) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,a*15) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,a*15) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,a*16) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,a*17) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,a*17) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,a*18) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,a*18) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,a*19) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,a*19) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,α^20) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,a*20) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,a*21) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,a*21) alpha
ENDF/B-VII.1 W-183
angular distribution for (n, a^22) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,a\*22) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,a*23) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,a*23) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,a*24) alpha
ENDF/B-VII.1 W-183
angular distribution for (n,a*24) alpha
ENDF/B-VII.1 W-183
alphas from (n,a*c)