Principal cross sections

Energy (MeV)

Cross section (barns)

- total
- absorption
- elastic
- gamma production
ENDF/B-VII.1 TH-232
resonance total cross section
ENDF/B-VII.1 TH-232
resonance total cross section

Energy (MeV)

Cross section (barns)

-10^5
-10^-4
ENDF/B-VII.1 TH-232
resonance total cross section

Energy (MeV)

Cross section (barns)

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

total
ENDF/B-VII.1 TH-232
resonance absorption cross sections
ENDF/B-VII.1 TH-232
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
ENDF/B-VII.1 TH-232
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture
fission
ENDF/B-VII.1 TH-232
UR total cross section

Energy (MeV)
Cross section (barns)

- Inf. Dil.
- 100 b
- 1 b

Energy (MeV)
ENDF/B-VII.1 TH-232
UR elastic cross section

Energy (MeV) vs. Cross section (barns)

- Inf. Dil.
- 100 b
- 1 b
ENDF/B-VII.1 TH-232
UR fission cross section

Energy (MeV)

Cross section (barns)

Inf. Dil.

100 b

1 b
ENDF/B-VII.1 TH-232
UR capture cross section

Energy (MeV)

Cross section (barns)

10^0

Inf. Dil.
100 b
1 b
ENDF/B-VII.1 TH-232
Heating

Energy (MeV) vs Heating (MeV/reaction)

- Energy axis ranges from $10^{-11}$ to $10^{1}$ MeV.
- Heating axis ranges from $10^{-4}$ to $10^{1}$ MeV/reaction.
- The graph shows a upward trend with a sharp rise at higher energies.

heating
ENDF/B-VII.1 TH-232 Damage

Energy (MeV) vs. Damage (MeV-barns) graph.
ENDF/B-VII.1 TH-232
Non-threshold reactions

Energy (MeV)

Cross section (barns)

(n,gma)
ENDF/B-VII.1 TH-232
Principal cross sections

Energy (MeV)

Cross section (barns)

- total
- absorption
- elastic
- gamma production

Energy (MeV)
ENDF/B-VII.1 TH-232 Damage

- Damage as a function of Energy (MeV).
- Damage increases linearly with energy.

Damage (MeV-barns) vs Energy (MeV).
ENDF/B-VII.1 TH-232
Non-threshold reactions

Energy (MeV)

Cross section (barns)

(n,gma)
ENDF/B-VII.1 TH-232
Inelastic levels

Energy (MeV)

Cross section (barns)

(n,n*1)  
(n,n*2)  
(n,n*3)  
(n,n*4)  
(n,n*5)  

Energy (MeV)
ENDF/B-VII.1 TH-232
Inelastic levels

Energy (MeV)

Cross section (barns)

- (n,n*26)
- (n,n*27)
- (n,n*28)
- (n,n*29)
- (n,n*30)

Energy (MeV)
ENDF/B-VII.1 TH-232
Threshold reactions

Energy (MeV)

Cross section (barns)

- (n,n*)p
- (n,2np)
- (n,n*c)
- (n,p)
- (n,a)
ENDF/B-VII.1 TH-232
Threshold reactions

Cross section (barns)

Energy (MeV)
ENDF/B-VII.1 TH-232
Threshold reactions

Energy (MeV)

Cross section (barns)

- (n,xp)
- (n,xa)
- (n,p^0)
- (n,p^c)
- (n,a^0)

Energy (MeV)
ENDF/B-VII.1 TH-232
Threshold reactions

Energy (MeV)

Cross section (barns)

*10^{-3}

(n,a*c)
ENDF/B-VII.1 TH-232
angular distribution for elastic

![Graph showing angular distribution for elastic scattering with energy on the x-axis, cosine of the angle on the y-axis, and probability on the z-axis.](image)
ENDF/B-VII.1 TH-232
angular distribution for elastic
ENDF/B-VII.1 TH-232
Total fission nubar

![Graph showing the relationship between energy (MeV) and fission nubar]
ENDF/B-VII.1 TH-232
Delayed neutron spectra

Probability

Energy (MeV)

10^0
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
10^{-6}
10^{-7}
10^{-8}
10^{-9}
10^{-10}

group 1 frac 0.0364 decay/shake 1.240E-10
group 2 frac 0.1259 decay/shake 3.340E-10
group 3 frac 0.1501 decay/shake 1.210E-09
group 4 frac 0.4406 decay/shake 3.210E-09
group 5 frac 0.1663 decay/shake 1.210E-08
group 6 frac 0.0808 decay/shake 3.290E-08
ENDF/B-VII.1 TH-232
Photon emission for (n,x)
ENDF/B-VII.1 TH-232
Photon emission for (n,2n)
ENDF/B-VII.1 TH-232
Photon emission for (n,3n)
ENDF/B-VII.1 TH-232
Photon emission for fission
ENDF/B-VII.1 TH-232
Photon emission for (n,n*)a
ENDF/B-VII.1 TH-232
Photon emission for (n,2n)a
ENDF/B-VII.1 TH-232
Photon emission for (n,n*)p
ENDF/B-VII.1 TH-232
Photon emission for (n,2np)
ENDF/B-VII.1 TH-232
Photon emission for (n,n\*c)
ENDF/B-VII.1 TH-232
Photon emission for (n,gma)
ENDF/B-VII.1 TH-232
Photon emission for (n,pa)
ENDF/B-VII.1 TH-232
Photon emission for (n,p*c)
ENDF/B-VII.1 TH-232
Photon emission for (n,a*c)
ENDF/B-VII.1 TH-232
thermal capture photon spectrum
ENDF/B-VII.1 TH-232
14 MeV photon spectrum
ENDF/B-VII.1 TH-232
Particle production cross sections

Cross section (barns) vs. Energy (MeV)

- protons
- alphas
ENDF/B-VII.1 TH-232
protons from (n,x)
ENDF/B-VII.1 TH-232
protons from (n,n*)p
ENDF/B-VII.1 TH-232
protons from (n,2np)
ENDF/B-VII.1 TH-232
protons from (n,pa)
ENDF/B-VII.1 TH-232
angular distribution for (n,p*0) proton
ENDF/B-VII.1 TH-232
angular distribution for (n,p*0) proton
ENDF/B-VII.1 TH-232
protons from (n,p*c)
ENDF/B-VII.1 TH-232
alphas from (n,x)
ENDF/B-VII.1 TH-232
alphas from (n,n*)a
ENDF/B-VII.1 TH-232 alphas from (n,2n)a
ENDF/B-VII.1 TH-232
alphas from (n,pa)
ENDF/B-VII.1 TH-232
angular distribution for (n,a*0) alpha
ENDF/B-VII.1 TH-232
angular distribution for (n,a*0) alpha
ENDF/B-VII.1 TH-232
alphas from (n,a*c)