ENDF/B-VII.1 RE-187
Principal cross sections

- Total cross section
- Energy (MeV)
- Cross section (barns)
- Absorption
- Elastic
- Gamma production
ENDF/B-VII.1 RE-187
resonance total cross section

Energy (MeV)

Cross section (barns)

total
ENDF/B-VII.1 RE-187
resonance total cross section

Cross section (barns)

Energy (MeV)
ENDF/B-VII.1 RE-187
resonance total cross section

![Graph showing resonance total cross section with energy (MeV) on the x-axis and cross section (barns) on the y-axis.]
ENDF/B-VII.1 RE-187
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

- capture
ENDF/B-VII.1 RE-187
resonance absorption cross sections

Energy (MeV)

Capture
ENDF/B-VII.1 RE-187
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

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

10^{-4} 10^{-3}
ENDF/B-VII.1 RE-187
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
ENDF/B-VII.1 RE-187
UR total cross section

Cross section (barns) vs. Energy (MeV)

- Inf. Dil.
- 100 b
- 1 b
ENDF/B-VII.1 RE-187
UR capture cross section

Cross section (barns)

Energy (MeV)
ENDF/B-VII.1 RE-187
Heating

- Energy (MeV)
- Heating (MeV/reaction)
ENDF/B-VII.1 RE-187 Damage

Energy (MeV) vs. Damage (MeV-barns)
ENDF/B-VII.1 RE-187
Non-threshold reactions

Cross section (barns)

Energy (MeV)

- (n, n*) a
- (n, gma)
- (n, a)
- (n, xa)
ENDF/B-VII.1 RE-187 Heating

Heating (MeV/reaction) vs. Energy (MeV)

The diagram shows the heating in MeV per reaction as a function of energy in MeV. The heating increases significantly with energy, starting from a low value at lower energies and rising sharply as the energy increases.
ENDF/B-VII.1 RE-187 Damage

Damage vs. Energy (MeV) graph.

- Damage axis: MeV-barns
- Energy axis: MeV

The damage increases linearly with energy.
ENDF/B-VII.1 RE-187
Threshold reactions

Cross section (barns) vs. Energy (MeV)
- (n,2n)
- (n,3n)
- (n,n*)p
- (n,n*c)
- (n,p)
ENDF/B-VII.1 RE-187
angular distribution for elastic
ENDF/B-VII.1 RE-187
angular distribution for (n,n^*1)
ENDF/B-VII.1 RE-187
angular distribution for (n,n*3)
ENDF/B-VII.1 RE-187
angular distribution for (n,n*4)
ENDF/B-VII.1 RE-187
angular distribution for (n,n*5)
ENDF/B-VII.1 RE-187
angular distribution for (n,n*6)
ENDF/B-VII.1 RE-187
angular distribution for (n,n*7)
ENDF/B-VII.1 RE-187
angular distribution for (n,n*8)
ENDF/B-VII.1 RE-187
angular distribution for (n,n*9)
ENDF/B-VII.1 RE-187
angular distribution for (n,n*10)
ENDF/B-VII.1 RE-187
angular distribution for (n,n*11)
ENDF/B-VII.1 RE-187
angular distribution for (n,n*12)
ENDF/B-VII.1 RE-187
angular distribution for (n,n*13)
ENDF/B-VII.1 RE-187
angular distribution for (n,n*14)
ENDF/B-VII.1 RE-187
angular distribution for (n,n*15)
ENDF/B-VII.1 RE-187
angular distribution for (n,n*17)
ENDF/B-VII.1 RE-187
angular distribution for (n,n*18)
ENDF/B-VII.1 RE-187
angular distribution for (n,n*19)
ENDF/B-VII.1 RE-187
angular distribution for (n,n*20)
ENDF/B-VII.1 RE-187
Neutron emission for (n,2n)
ENDF/B-VII.1 RE-187
Neutron emission for (n,3n)
ENDF/B-VII.1 RE-187
Neutron emission for (n,n*)a
ENDF/B-VII.1 RE-187
Neutron emission for \((n,n^*)p\)
ENDF/B-VII.1 RE-187
Neutron emission for (n,n*c)
ENDF/B-VII.1 RE-187
Photon emission for (n,2n)
ENDF/B-VII.1 RE-187
Photon emission for (n,3n)
ENDF/B-VII.1 RE-187
Photon emission for (n,n*)a
ENDF/B-VII.1 RE-187
Photon emission for (n,n*)p
Photon emission for (n,n*c)
ENDF/B-VII.1 RE-187
Photon emission for (n,gma)
ENDF/B-VII.1 RE-187
Photon emission for (n,p)
ENDF/B-VII.1 RE-187
Photon emission for (n,d)
ENDF/B-VII.1 RE-187
Photon emission for (n,a)
ENDF/B-VII.1 RE-187
thermal capture photon spectrum

Gamma Energy (MeV)

Gamma Prod (barns/MeV)
ENDF/B-VII.1 RE-187
14 MeV photon spectrum
Particle heating contributions

- Protons
- Deuterons
- Tritons
- Alphas

MeV/collision vs Energy (MeV)
ENDF/B-VII.1 RE-187
Recoil Heating

Energy (MeV)

Heating (MeV/reaction)

recoil heating
Particle production cross sections

Energy (MeV)

Cross section (barns)

- protons
- deuterons
- tritons
- alphas
ENDF/B-VII.1 RE-187
protons from (n,n*)p
ENDF/B-VII.1 RE-187
protons from (n,p)
ENDF/B-VII.1 RE-187
deuterons from (n,d)
ENDF/B-VII.1 RE-187
tritons from (n,t)
ENDF/B-VII.1 RE-187
alphas from (n,n*)a
ENDF/B-VII.1 RE-187
alphas from (n,a)