ENDF/B-VII.1 GD-158
resonance total cross section
ENDF/B-VII.1 GD-158
resonance total cross section
ENDF/B-VII.1 GD-158
resonance total cross section

Energy (MeV)

Cross section (barns)
ENDF/B-VII.1 GD-158
resonance absorption cross sections

![Graph showing resonance absorption cross sections.](image-url)

- Cross section (barns) on the y-axis.
- Energy (MeV) on the x-axis.
- The graph shows a peak in cross section at a certain energy.

**Note:** The graph is a visual representation of resonance absorption cross sections for GD-158 as per ENDF/B-VII.1.
ENDF/B-VII.1 GD-158
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

- Capture
ENDF/B-VII.1 GD-158 resonance absorption cross sections

Cross section (barns)

Energy (MeV)
ENDF/B-VII.1 GD-158
resonance absorption cross sections

Capture cross section as a function of energy (MeV). The cross section decreases with increasing energy, following a logarithmic scale on both axes.
ENDF/B-VII.1 GD-158
UR total cross section

Energy (MeV)

Cross section (barns)

- Inf. Dil.
- 100 b
- 1 b
ENDF/B-VII.1 GD-158
UR elastic cross section

Energy (MeV) vs. Cross section (barns)

- Inf. Dil.
- 100 b
- 1 b

The graph shows the energy (MeV) on the x-axis and cross section (barns) on the y-axis. Different lines represent different cross sections, with the Inf. Dil. line being the most dominant and the 1 b line being the least visible.
ENDF/B-VII.1 GD-158
UR capture cross section

Energy (MeV) vs. Cross section (barns) plot for different dilutions:
- Inf. Dil.
- 100 b
- 1 b
ENDF/B-VII.1 GD-158 Heating

Heating

Heating (MeV/reaction)

Energy (MeV)
ENDF/B-VII.1 GD-158
Non-threshold reactions

Energy (MeV)

Cross section (barns)
ENDF/B-VII.1 GD-158
Principal cross sections

![Graph showing cross sections vs energy]

- Total
- Absorption
- Elastic
- Gamma production
ENDF/B-VII.1 GD-158
Damage

Energy (MeV) vs. Damage (MeV-barns) graph.
ENDF/B-VII.1 GD-158
Non-threshold reactions

Cross section (barns)

Energy (MeV)
ENDF/B-VII.1 GD-158
Inelastic levels

Cross section (barns)

Energy (MeV)

- (n,n*26)
- (n,n*27)
ENDF/B-VII.1 GD-158
Threshold reactions

Energy (MeV)

Cross section (barns)

(n,2n)
(n,3n)
(n,n\*)a
(n,2n)a
(n,n\*)p
ENDF/B-VII.1 GD-158
Threshold reactions

- (n,2np)
- (n,nα)
- (n,p)
- (n,a)
ENDF/B-VII.1 GD-158
Threshold reactions

Energy (MeV)

Cross section (barns)

- (n,a*6)
- (n,a*7)
- (n,a*c)
ENDF/B-VII.1 GD-158
angular distribution for (n,n*1)
ENDF/B-VII.1 GD-158
angular distribution for (n,n*2)
ENDF/B-VII.1 GD-158
angular distribution for (n,n*4)
ENDF/B-VII.1 GD-158
angular distribution for \((n,n^*5)\)
ENDF/B-VII.1 GD-158
angular distribution for (n,n*6)
ENDF/B-VII.1 GD-158
angular distribution for \((n,n^*7)\)
ENDF/B-VII.1 GD-158
angular distribution for \((n,n^*8)\)
ENDF/B-VII.1 GD-158
angular distribution for \((n,n^*9)\)
ENDF/B-VII.1 GD-158
angular distribution for (n,n*10)
ENDF/B-VII.1 GD-158
angular distribution for (n,n*11)
ENDF/B-VII.1 GD-158
angular distribution for (n,n*12)
ENDF/B-VII.1 GD-158
angular distribution for (n,n*13)
ENDF/B-VII.1 GD-158
angular distribution for (n,n*14)
ENDF/B-VII.1 GD-158
angular distribution for (n,n*15)
ENDF/B-VII.1 GD-158
angular distribution for (n,n*16)
ENDF/B-VII.1 GD-158
angular distribution for (n,n*17)
ENDF/B-VII.1 GD-158
angular distribution for (n,n*18)
ENDF/B-VII.1 GD-158
angular distribution for (n,n*20)
ENDF/B-VII.1 GD-158
angular distribution for \((n,n^*21)\)
ENDF/B-VII.1 GD-158
angular distribution for (n,n*22)
ENDF/B-VII.1 GD-158
angular distribution for \((n,n^{*}23)\)
ENDF/B-VII.1 GD-158
angular distribution for (n,n*24)
ENDF/B-VII.1 GD-158
angular distribution for (n,n*25)
ENDF/B-VII.1 GD-158
angular distribution for (n,n*26)
ENDF/B-VII.1 GD-158
angular distribution for (n,n*27)
ENDF/B-VII.1 GD-158
Neutron emission for (n,2n)
ENDF/B-VII.1 GD-158
Neutron emission for (n,3n)
ENDF/B-VII.1 GD-158
Neutron emission for \((n,n^*)a\)
ENDF/B-VII.1 GD-158
Neutron emission for (n,2n)a
ENDF/B-VII.1 GD-158
Neutron emission for \((n,n^*)p\)
ENDF/B-VII.1 GD-158
Neutron emission for (n,2np)
ENDF/B-VII.1 GD-158
Neutron emission for \((n,n^*c)\)
ENDF/B-VII.1 GD-158
Photon emission for \((n,2n)\)
ENDF/B-VII.1 GD-158
Photon emission for (n,n*)a
ENDF/B-VII.1 GD-158
Photon emission for (n,2n)a
ENDF/B-VII.1 GD-158
Photon emission for \((n,n^*)p\)
ENDF/B-VII.1 GD-158
Photon emission for \( (n,2np) \)
ENDF/B-VII.1 GD-158
Photon emission for (n,n*c)
ENDF/B-VII.1 GD-158
Photon emission for (n,gma)
ENDF/B-VII.1 GD-158
Photon emission for (n,p*c)
ENDF/B-VII.1 GD-158
Photon emission for \((n,a^\ast c)\)
ENDF/B-VII.1 GD-158 thermal capture photon spectrum

Gamma Energy (MeV)

Gamma Prod (barns/MeV)
ENDF/B-VII.1 GD-158
14 MeV photon spectrum
ENDF/B-VII.1 GD-158
Particle heating contributions

Energy (MeV)

MeV/collision

Energy (MeV)

protons

alphas
ENDF/B-VII.1 GD-158
Recoil Heating

Energy (MeV)

Heating (MeV/reaction)

- recoil heating

0.0 0.1 0.2 0.3 0.4 0.5
0 5 10 15 20
0 0.1 0.2 0.3 0.4 0.5
0 5 10 15 20
ENDF/B-VII.1 GD-158
protons from (n,n*)p
ENDF/B-VII.1 GD-158 protons from (n,2np)
ENDF/B-VII.1 GD-158
angular distribution for (n,p*0) proton
ENDF/B-VII.1 GD-158
protons from (n,p* c)
ENDF/B-VII.1 GD-158
alphas from (n,n*)a
ENDF/B-VII.1 GD-158
angular distribution for (n,a*0) alpha
ENDF/B-VII.1 GD-158
angular distribution for (n,a^*) alpha
ENDF/B-VII.1 GD-158
angular distribution for (n,α²) alpha
ENDF/B-VII.1 GD-158
angular distribution for (n,a*3) alpha
ENDF/B-VII.1 GD-158
angular distribution for (n,a*4) alpha
ENDF/B-VII.1 GD-158
angular distribution for (n,a*5) alpha
ENDF/B-VII.1 GD-158
angular distribution for \textit{(n,a^*6) alpha}
ENDF/B-VII.1 GD-158
angular distribution for (n,a^7) alpha
ENDF/B-VII.1 GD-158
alphas from (n,a*c)