Principal cross sections

Energy (MeV)

Cross section (barns)

- total
- absorption
- elastic
- gamma production

74-W-186 FOR FENDL-3.2 FROM INDL/V-3 BY NJOY2016.60+
74-W-186 FOR FENDL-3.2 FROM INDL/V-3 BY NJOY2016.60+
resonance total cross section

Cross section (barns) vs. Energy (MeV)
74-W-186 FOR FENDL-3.2 FROM INDL/V-3 BY NJOY2016.60+
resonance total cross section

Cross section (barns)

Energy (MeV)
74-W-186 FOR FENDL-3.2 FROM INDL/V-3 BY NJOY2016.60+
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture

10^{-5} to 10^{-4} Energy (MeV)

10^{-1} to 10^{4} Cross section (barns)
74-W-186 FOR FENDL-3.2 FROM INDL/V-3 BY NJOY2016.60+
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture
74-W-186 FOR FENDL-3.2 FROM INDL/V-3 BY NJOY2016.60+
resonance absorption cross sections

capture
UR total cross section

Energy (MeV)

Cross section (barns)

Inf. Dil.

100 b

1 b
74-W-186 FOR FENDL-3.2 FROM INDL/V-3 BY NJOY2016.60+
UR elastic cross section

![Graph showing cross section (barns) vs. energy (MeV).]

- Inf. Dil.
- 100 b
- 1 b
74-W-186 FOR FENDL-3.2 FROM INDL/V-3 BY NJOY2016.60+
UR capture cross section

Cross section (barns)

Energy (MeV)
Energy (MeV) vs. Damage (MeV-barns)

The graph shows the relationship between energy in MeV and damage in MeV-barns. The damage increases significantly as the energy increases, particularly at lower energy levels. The graph is on a logarithmic scale, which allows for a clearer visualization of the data across a wide range of energies.
Non-threshold reactions

Cross section (barns) vs. Energy (MeV)

- (n,gma)
Principal cross sections

- Total cross section
- Absorption cross section
- Elastic cross section
- Gamma production cross section

Energy (MeV) vs. Cross section (barns)
74-W-186 FOR FENDL-3.2 FROM INDL/V-3 BY NJOY2016.60+
 Heating

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

- The graph plots the heating in MeV per reaction against energy in MeV.
- There is a clear upward trend indicating that heating increases with increasing energy.
Non-threshold reactions

Cross section (barns) vs. Energy (MeV)

- The graph shows the cross section in barns as a function of energy in MeV.
- The cross section decreases significantly with increasing energy.
- The (n,gma) reaction is indicated on the graph.
Inelastic levels

Energy (MeV)

Cross section (barns)

(n,n*6)
(n,n*7)
(n,n*8)
(n,n*9)
(n,n*10)
74-W-186 FOR FENDL-3.2 FROM INDL/V-3 BY NJOY2016.60+
Inelastic levels

Cross section (barns)

Energy (MeV)

\( (n,n^{11}) \)
Threshold reactions

74-W-186 FOR FENDL-3.2 FROM INDL/V-3 BY NJOY2016.60+

Cross section (barns)

Energy (MeV)
74-W-186 FOR FENDL-3.2 FROM INDL/V-3 BY NJOY2016.60
Threshold reactions

![Graph showing threshold reactions]

Cross section (barns) vs. Energy (MeV) for various reactions:
- (n,xp)
- (n,xa)
- (n,p*0)
- (n,p*c)
- (n,a*0)
74-W-186 FOR FENDL-3.2 FROM INDL/V-3 BY NJOY2016.60+
Threshold reactions

Energy (MeV)

Cross section (barns)

\((n,a^c)\)
angular distribution for elastic
angular distribution for elastic
74-W-186 FOR FENDL-3.2 FROM INDL/V-3 BY NJOY2016.60+
angular distribution for (n,n*1)
angular distribution for (n,n*1)
angular distribution for (n,n*2)
angular distribution for \((n,n^2)\)
angular distribution for (n,n*3)
74-W-186 FOR FENDL-3.2 FROM INDL/V-3 BY NJOY2016.60+
angular distribution for (n,n*3)
angular distribution for (n,n*4)
74-W-186 FOR FENDL-3.2 FROM INDL/V-3 BY NJOY2016.60+
angular distribution for (n,n*4)
74-W-186 FOR FENDL-3.2 FROM INDL/V-3 BY NJOY2016.60+
angular distribution for (n,n*5)
angular distribution for (n,n*5)
74-W-186 FOR FENDL-3.2 FROM INDL/V-3 BY NJOY2016.60+
angular distribution for (n,n*6)
74-W-186 FOR FENDL-3.2 FROM INDL/V-3 BY NJOY2016.60+
angular distribution for (n,n*6)
angular distribution for \((n,n^\ast 7)\)
angular distribution for (n,n*7)
angular distribution for \((n,n^*8)\)
angular distribution for (n,n*8)
angular distribution for (n,n*9)
angular distribution for (n,n*9)
angular distribution for (n,n*10)
angular distribution for (n,n*10)
angular distribution for (n,n*11)
angular distribution for (n,n*11)
74-W-186 FOR FENDL-3.2 FROM INDL/V-3 BY NJOY2016.60+
Neutron emission for (n,x)
74-W-186 FOR FENDL-3.2 FROM INDL/V-3 BY NJOY2016.60+
Neutron emission for (n,2n)
74-W-186 FOR FENDL-3.2 FROM INDL/V-3 BY NJOY2016.60+
Neutron emission for (n,3n)
Neutron emission for \((n,n^*)p\)
Neutron emission for (n,4n)
74-W-186 FOR FENDL-3.2 FROM INDL/V-3 BY NJOY2016.60+
Neutron emission for (n,2np)
74-W-186 FOR FENDL-3.2 FROM INDL/V-3 BY NJOY2016.60+
Neutron emission for (n,n*c)
Photon emission for (n,x)
Photon emission for (n,2n)

E_{\gamma} (MeV) vs. E_{n} (MeV)

Probability/MeV
Photons emission for (n,3n)
Photon emission for \((n,n^*)p\)
Photon emission for (n, 4n)
Photon emission for (n,2np)
Photon emission for (n,n*c)
Photon emission for (n,gma)
Photon emission for (n,p*c)
Photon emission for (n,a*c)
74-W-186 FOR FENDL-3.2 FROM INDL/V-3 BY NJOY2016.60+
thermal capture photon spectrum
74-W-186 FOR FENDL-3.2 FROM INDL/V-3 BY NJOY2016.60+
14 MeV photon spectrum
Particle heating contributions

MeV/collision vs. Energy (MeV)

- **protons**
- **alphas**
74-W-186 FOR FENDL-3.2 FROM INDL/V-3 BY NJOY2016.60+
Recoil Heating

Recoil Heating

Heating (MeV/reaction)

Energy (MeV)
Particle production cross sections

Cross section (barns)

Energy (MeV)

protons

alphas
74-W-186 FOR FENDL-3.2 FROM INDL/V-3 BY NJOY2016.60+
protons from (n,x)
74-W-186 FOR FENDL-3.2 FROM INDL/V-3 BY NJOY2016.60+
protons from \((n,n^*)p\)
74-W-186 FOR FENDL-3.2 FROM INDL/V-3 BY NJOY2016.60+
protons from (n,2np)
angular distribution for (n,p*0) proton
angular distribution for (n,p*0) proton
74-W-186 FOR FENDL-3.2 FROM INDL/V-3 BY NJOY2016.60+
protons from (n,p*c)
74-W-186 FOR FENDL-3.2 FROM INDL/V-3 BY NJOY2016.60+
alphas from (n,x)
angular distribution for \((n, a^*0)\) alpha
angular distribution for (n,a*0) alpha
74-W-186 FOR FENDL-3.2 FROM INDL/V-3 BY NJOY2016.60+
alphas from (n,a*c)