Principal cross sections

Cross section (barns)

Energy (MeV)

- total
- absorption
- elastic
- gamma production
48-CD-106 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section

Energy (MeV)

Cross section (barns)
48-CD-106 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section

Energy (MeV)

Cross section (barns)

total
48-CD-106 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section

![Graph showing the energy (MeV) versus cross section (barns) for 48-CD-106.
The cross section is plotted on a logarithmic scale from 10^0 to 10^1 barns.
The energy axis ranges from 10^0 to 10^1 MeV.
A single line represents the total cross section.](image-url)
48-CD-106 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture
48-CD-106 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

Capture cross section as a function of energy (MeV).
48-CD-106 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

![Graph showing the cross section (barns) versus energy (MeV). The graph indicates a peak in the cross section around 10^{-1} barns at energies near 10^{0} MeV, which then decreases as the energy increases.]
Heating

Heating (MeV/reaction)

Energy (MeV)
48-CD-106 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Non-threshold reactions

![Graph showing cross section vs. energy](image_url)
Principal cross sections

Energy (MeV)

Cross section (barns)

- total
- absorption
- elastic
- gamma production

48-CD-106 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Non-threshold reactions

Cross section (barns) vs. Energy (MeV)
48-CD-106 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Inelastic levels

Cross section (barns) vs. Energy (MeV)

- (n,n*6)
- (n,n*7)
- (n,n*8)
- (n,n*9)
- (n,n*10)
48-CD-106 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Inelastic levels

Cross section (barns)

Energy (MeV)
48-CD-106 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Threshold reactions

Cross section (barns)

Energy (MeV)
Threshold reactions

48-CD-106 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+

Energy (MeV)

Cross section (barns)

- (n,he3)
- (n,a)
- (n,2p)
angular distribution for elastic
48-CD-106 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for elastic
48-CD-106 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for \((n,2n)\)
angular distribution for (n,3n)
angular distribution for (n,n*)a
angular distribution for (n,n*)p
48-CD-106 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for \((n,n^*)d\)
angular distribution for (n,n*1)
angular distribution for (n,n*2)
48-CD-106 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*3)
angular distribution for (n,n*4)
angular distribution for \((n,n^*5)\)
48-CD-106 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for \((n,n^*6)\)
angular distribution for (n,n*7)
48-CD-106 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*8)
angular distribution for (n,n*9)
angular distribution for (n,n*10)
angular distribution for (n,n*11)
48-CD-106 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*c)
Neutron emission for (n,x)
Neutron emission for (n,2n)
Neutron emission for $(n,3n)$
Neutron emission for \((n,n^*)a\)
Neutron emission for \((n,n^*)p\)
Neutron emission for \((n,n^*)d\)
48-CD-106 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Neutron emission for (n,n*c)
Photon emission for (n,2n)
Photon emission for (n,n*)a
Photon emission for (n,n*)p
Photon emission for (n,n*c)
Photon emission for \((n,\gamma)\)
Photons emission for (n,p)
Photon emission for (n,a)
Photon emission for $(n,x)$
48-CD-106 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
thermal capture photon spectrum
48-CD-106 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
14 MeV photon spectrum
Particle heating contributions

- protons
- deuterons
- tritons
- he-3
- alphas

Energy (MeV)

MeV/collision

Energy (MeV)
Recoil Heating

Energy (MeV)

Heating (MeV/reaction)
Particle production cross sections

Energy (MeV) vs. Cross section (barns)

- Protons
- Deuterons
- Tritons
- He-3
- Alphas

Energy (MeV): 20, 40, 60, 80, 100, 120, 140, 160, 180, 200

Cross section (barns): 0.0, 0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5
48-CD-106 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
protons from (n,x)
48-CD-106 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+ deuterons from (n,x)
48-CD-106 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
tritons from (n,x)
48-CD-106 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
he3s from (n,x)
48-CD-106 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
alphas from (n,x)