Principal cross sections

Cross section (barns)

Energy (MeV)

- total
- absorption
- elastic
- gamma production
48-CD-111 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+ resonance total cross section
48-CD-111 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section

Energy (MeV) vs. Cross section (barns)
48-CD-111 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section

![Graph showing total cross section as a function of energy (MeV)]
48-CD-111 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section

Cross section (barns)

Energy (MeV)
48-CD-111 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section

Energy (MeV) vs. Cross section (barns)
48-CD-111 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section

Energy (MeV)

Cross section (barns)

Total
48-CD-111 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
48-CD-111 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

capture
48-CD-111 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture
48-CD-111 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture
48-CD-111 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

capture

Cross section (barns)

Energy (MeV)
48-CD-111 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture
48-CD-111 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+ UR total cross section

Cross section (barns)

Energy (MeV)
48-CD-111 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
UR elastic cross section

Cross section (barns)

Energy (MeV)
48-CD-111 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
UR capture cross section

Cross section (barns)

Energy (MeV)
48-CD-111 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Heating

![Graph showing Heating (MeV/reaction) vs. Energy (MeV). The graph has a log-log scale with Heating on the y-axis and Energy on the x-axis. The graph shows a line labeled 'heating' with data points distributed across the energy range.]
Energy (MeV) vs. Damage (MeV-barns) graph.
Non-threshold reactions

Energy (MeV) vs Cross section (barns)

(n,gma)
48-CD-111 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Heating

Heating (MeV/reaction)

Energy (MeV)
48-CD-111 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Damage

![Graph showing the relationship between energy (MeV) and damage (MeV-barns). The graph has a line representing damage, with energy on the x-axis and damage on the y-axis. The damage increases with energy, reaching a peak around 100 MeV before decreasing slightly before rising again.]
Non-threshold reactions

Cross section (barns) vs. Energy (MeV)

- (n,gma)
48-CD-111 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Inelastic levels

Energy (MeV)

Cross section (barns)

Energy (MeV)
48-CD-111 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Inelastic levels

Cross section (barns) vs. Energy (MeV) graph showing the 
(n,n*6) black line, (n,n*7) red line, (n,n*8) green line, 
(n,n*9) blue line, and (n,n*10) purple line.
48-CD-111 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Inelastic levels

Cross section (barns)

Energy (MeV)

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

Cross section (barns)

Energy (MeV)
48-CD-111 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Threshold reactions

![Graph showing cross section vs. energy for various reactions](image-url)
48-CD-111 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Threshold reactions

![Cross-section graph](image-url)
Threshold reactions

Cross section (barns) vs. Energy (MeV)

- (n,xp)
- (n,xd)
- (n,xt)
- (n,xhe3)
- (n,xa)
angular distribution for elastic
angular distribution for elastic

![Graph showing angular distribution for elastic]
angular distribution for (n,2n)
angular distribution for (n,3n)
angular distribution for (n,n*)a
angular distribution for (n,n*)p
angular distribution for \((n,n^*)d\)
48-CD-111 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*1)
angular distribution for (n,n*2)
angular distribution for \((n,n^*3)\)
angular distribution for (n,n*4)
48-CD-111 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*5)
48-CD-111 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*6)
Angular distribution for (n,n*7)
angular distribution for (n,n*8)
angular distribution for (n,n*9)
48-CD-111 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*10)
48-CD-111 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*11)
48-CD-111 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)
48-CD-111 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Neutron emission for (n,3n)
Neutron emission for \((n,n^*)a\)
48-CD-111 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Neutron emission for (n,n*)p
Neutron emission for (n,n*)d
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)
Photon emission for (n,p)
Photon emission for (n,a)
Photon emission for (n,x)
48-CD-111 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
thermal capture photon spectrum
14 MeV photon spectrum
Particle production cross sections

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

Energy (MeV) vs Cross section (barns)
48-CD-111 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+ protons from (n,x)
48-CD-111 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
deuterons from (n,x)
48-CD-111 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+ tritons from (n,x)
48-CD-111 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
he3s from \((n,x)\)
48-CD-111 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+ alphas from (n,x)