Principal cross sections

Elastic
Absorption
Gamma production
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section

Energy (MeV)

Cross section (barns)
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section

Energy (MeV) vs. Cross section (barns)

- total
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

capture
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

[Graph showingEnergy (MeV) vs. Cross section (barns) with capture line marked]

- Energy (MeV) ranges from $10^{-3}$ to $10^{-2}$
- Cross section (barns) ranges from $10^{-3}$ to $10^1$
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

capture
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+ UR total cross section

Energy (MeV)

10^{-2} 10^{-1} 10^{0}

Cross section (barns)

10^{-1} 10^{1}

Inf. Dil.
100 b
1 b
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
UR elastic cross section
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
UR capture cross section

- Inf. Dil.
- 100 b
- 1 b
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Non-threshold reactions
Non-threshold reactions

![Graph showing cross section (barns) versus energy (MeV). The x-axis represents energy in MeV ranging from $10^{-11}$ to $10^1$, and the y-axis represents cross section in barns ranging from $10^{-3}$ to $10^3$. The graph includes a line labeled (n,gma).]
Principal cross sections

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

Energy (MeV) vs. Cross section (barns)
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+

Damage

Damage (MeV-barns)

Energy (MeV)
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Non-threshold reactions

Cross section (barns)

Energy (MeV)
Non-threshold reactions

Energy (MeV)

Cross section (barns)

\((n,\text{gma})\)
Inelastic levels

Cross section (barns)

Energy (MeV)
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Inelastic levels

Cross section (barns)

Energy (MeV)

(n,n*11)
(n,n*12)
(n,n*13)
(n,n*14)
(n,n*15)
Inelastic levels

Cross section (barns)

Energy (MeV)

42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Inelastic levels

Cross section (barns)

Energy (MeV)

- (n,n*21)
- (n,n*22)
- (n,n*23)
- (n,n*24)
- (n,n*25)
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Inelastic levels

Cross section (barns)

Energy (MeV)

$\langle n,n^*31 \rangle$
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Threshold reactions

![Graph showing cross sections for different reactions](image-url)
Threshold reactions

Cross section (barns) vs. Energy (MeV)

- (n,he3)
- (n,a)
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Threshold reactions

Energy (MeV)

Cross section (barns)

(n,xp)
(n,xd)
(n,xt)
(n,xhe3)
(n,xa)
angular distribution for elastic
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for elastic
42-MO-96 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 $(n,n*4)$
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for \((n,n^*5)\)
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*6)
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*7)
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*8)
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*9)
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*10)
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*11)
angular distribution for (n,n*12)
angular distribution for (n,n*13)
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*14)
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*15)
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for \((n,n^*16)\)
angular distribution for (n,n*17)
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*18)
angular distribution for \( (n,n^{*19}) \)
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*20)
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for \((n, n^*21)\)
Angular distribution for \((n,n^*22)\)
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*23)
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*24)
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*25)
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*26)
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*27)
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*28)
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for \((n,n^*29)\)
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for \((n,n*30)\)
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*31)
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
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
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Neutron emission for (n,n*c)
Photon emission for nonelastic
Photon emission for (n,x)
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
14 MeV photon spectrum

Gamma Energy (MeV)

Gamma Prod (barns/MeV)
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Recoil Heating

![Recoil Heating Graph]

- Heating (MeV/reaction)
- Energy (MeV)
Particle production cross sections

Energy (MeV)

Cross section (barns)

- protons
- deuterons
- tritons
- alphas
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
protons from (n,x)
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
deuterons from (n,x)
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
tritons from (n,x)
42-MO-96 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
alphas from (n,x)