42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Principal cross sections

Energy (MeV)
Cross section (barns)

- total
- absorption
- elastic
- gamma production
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section

![Graph showing the relationship between energy (MeV) and total cross section (barns)]
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section

Cross section (barns)

Energy (MeV)

- Energy (MeV) on the x-axis, ranging from $10^{-6}$ to $10^{-5}$.
- Cross section (barns) on the y-axis, ranging from $10^{-1}$ to $10^{1}$.
- A line graph showing the total cross section as a function of energy.
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section

Energy (MeV)

Cross section (barns)

- Energy (MeV)
- Cross section (barns)

[Graph showing a peak in cross section at a certain energy level]
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section

Energy (MeV) vs Cross section (barns) graph
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section

Energy (MeV)

Cross section (barns)

10^{-3} to 10^{-2}

10^{1} to 10^{2}

10^{3}
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section

Energy (MeV)

Cross section (barns)

total
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

Capture cross section as a function of energy (MeV).
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

![Graph showing the relationship between energy (MeV) and cross section (barns) for capture process.]
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

- capture
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
UR total cross section

Cross section (barns)

Energy (MeV)

Inf. Dil.
100 b
1 b
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
UR elastic cross section

![Graph showing cross section vs energy](image-url)
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
UR capture cross section
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+

Damage

Energy (MeV)

Damage (MeV-barns)

-5

-4

-3

-2

-1

0

10

10

10

10
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Non-threshold reactions

Energy (MeV)

Cross section (barns)

- (n,gma)
- (n,a)
- (n,xa)
- nonelastic
Non-threshold reactions

Cross section (barns)

Energy (MeV)

(n,gma)
(n,a)
(n,xa)
Principal cross sections

Energy (MeV)

Cross section (barns)

- total
- absorption
- elastic
- gamma production
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Non-threshold reactions

Cross section (barns) vs. Energy (MeV) graph
- (n,gma)
- (n,a)
- (n,xa)
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Inelastic levels

Energy (MeV)

Cross section (barns)

0
2
4
6
8
10
12
14
16
18
20

0
200
400
600
800
1000
1200
1400
1600
1800
2000

(n,n*6)
(n,n*7)
(n,n*8)
(n,n*9)
(n,n*10)
42-MO-95 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)
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Inelastic levels

Cross section (barns)

Energy (MeV)
Inelastic levels

Cross section (barns)

Energy (MeV)
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Inelastic levels

Cross section (barns)

Energy (MeV)
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Threshold reactions

![Graph showing various cross-section reactions vs. energy]

- (n,x)
- (n,2n)
- (n,3n)
- (n,n*)a
- (n,n*)p

Cross section (barns) vs. Energy (MeV)
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Threshold reactions

Energy (MeV)

Cross section (barns)

- (n,he3)
- (n,xp)
- (n,xd)
- (n,xt)
- (n,xhe3)
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for elastic
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for elastic

![Graph showing angular distribution for elastic scattering.
Axes: Cosine, Energy (MeV), Prob/Cos.
Graph depicts peaks at various energy values.
]
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*1)
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for \((n,n^2)\)
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*3)
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for \((n,n^*4)\)
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*5)
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*6)
angular distribution for (n,n*7)
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*8)
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*9)
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*11)
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*12)
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n^13)
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for \((n,n^\ast 14)\)
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*15)
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*16)
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*17)
angular distribution for (n,n*18)
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*19)
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n\*20)
angular distribution for (n,n\*21)

Energy (MeV)

Prob/Cos

Cosine

1.0 0.5 0.0 -0.5 -1.0 0 2 4 6 8 10 12 14 16 18 20

10^0
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*22)
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*23)
angular distribution for (n,n*24)
angular distribution for (n,n*25)
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*26)
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Neutron emission for (n,x)
Neutron emission for (n,2n)

42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Neutron emission for \((n,3n)\)
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Neutron emission for (n,n*)\textit{a}
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Neutron emission for \((n,n^*)p\)
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Neutron emission for (n,n*)d
42-MO-95 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-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
14 MeV photon spectrum
Particle heating contributions

Energy (MeV)

MeV/collision

Energy (MeV)

- protons
- deuterons
- tritons
- alphas
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Recoil Heating

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

- Line graph with heating in MeV/reaction on the y-axis and energy in MeV on the x-axis.
- The graph shows fluctuations in heating with energy.
- The energy range is from 0 to 160 MeV.
- The heating values range from 0 to 1 MeV/reaction.
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
protons from (n,x)
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
deuterons from (n,x)
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
tritons from (n,x)
42-MO-95 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
alphas from (n,x)