56-BA-130 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Principal cross sections

![Graph showing cross sections vs. energy](image_url)
56-BA-130 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section
56-BA-130 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section

Energy (MeV)

Cross section (barns)
56-BA-130 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section

Energy (MeV)

Cross section (barns)

- Plot shows the total cross section as a function of energy in MeV.
- The cross section is given in barns (b).
56-BA-130 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section

Energy (MeV) vs. Cross section (barns)

- Line: total

Energy (MeV) range: $10^0$ to $10^1$

Cross section (barns) range: $10^0$ to $10^1$

Graph showing the total cross section as a function of energy.
56-BA-130 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

![Graph showing cross section (barns) vs. Energy (MeV). The graph displays capture cross sections with two resonant peaks.]
56-BA-130 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

Capture cross section as a function of energy (MeV).
56-BA-130 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

![Graph showing cross section versus energy in barns and MeV, with a peak at approximately 10^1 barns and a general decrease as energy increases.](image-url)
56-BA-130 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections
56-BA-130 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

capture

Energy (MeV)

Cross section (barns)
56-BA-130 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
UR total cross section

![Graph showing cross section vs energy](image-url)
56-BA-130 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
UR elastic cross section

![Graph showing the elastic cross section vs energy](image-url)
56-BA-130 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
UR capture cross section

Energy (MeV)

Cross section (barns)

- Inf. Dil.
- 100 b
- 1 b
56-BA-130 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Damage

Energy (MeV)

Damage (MeV-barns)
56-BA-130 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Non-threshold reactions
56-BA-130 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+ Heating

![Graph showing Heating (MeV/reaction) vs. Energy (MeV)](image-url)

- Heating (MeV/reaction)
- Energy (MeV)

Graph depicts an increasing heating rate with increasing energy.
56-BA-130 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Non-threshold reactions

Cross section (barns)

Energy (MeV)
56-BA-130 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Inelastic levels

Energy (MeV) vs Cross section (barns)

- (n,n\textsuperscript{1})
- (n,n\textsuperscript{2})
- (n,n\textsuperscript{3})
- (n,n\textsuperscript{4})
- (n,n\textsuperscript{5})

Energy (MeV) range: 0 to 20
Cross section (barns) range: 0 to 1.0
56-BA-130 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)
Threshold reactions

Cross section (barns) vs. Energy (MeV)

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

Cross section (barns)

Energy (MeV)
Threshold reactions

Cross section (barns)

Energy (MeV)
angular distribution for elastic
56-BA-130 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for elastic
angular distribution for (n,2n)
56-BA-130 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,3n)
56-BA-130 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for \((n,n^*)a\)
angular distribution for (n,n*)p
56-BA-130 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 \((n,n*2)\)
56-BA-130 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*3)
56-BA-130 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*4)
56-BA-130 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*5)
56-BA-130 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*6)
56-BA-130 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for \((n,n^*7)\)
56-BA-130 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*c)
56-BA-130 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Neutron emission for (n,x)
56-BA-130 FOR FENDL-3.2 FROM FENDL 3.2 BY NJOY2016.60+
Neutron emission for (n,2n)
56-BA-130 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Neutron emission for (n,3n)
56-BA-130 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Neutron emission for (n,n*)a
56-BA-130 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Neutron emission for (n,n*)p
56-BA-130 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Neutron emission for (n,n*)d

![Graph showing neutron emission probability as a function of secondary energy and energy (MeV).]
56-BA-130 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Neutron emission for (n,n*c)
Photon emission for (n,x)
Particle heating contributions

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

MeV/collision vs. Energy (MeV)
Particle production cross sections

Protons
Deuterons
Tritons
He-3
Alphas
56-BA-130 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
protons from (n,x)
56-BA-130 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
deuteron from (n,x)
56-BA-130 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
tritons from (n,x)
56-BA-130 FOR FENDL-3.2 FROM FENDL 3.2 BY NJOY2016.60+
he3s from (n,x)
56-BA-130 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
alphas from (n,x)