56-BA-138 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+ 
resonance total cross section

Cross section (barns)

Energy (MeV)
56-BA-138 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section

![Graph showing cross section vs. energy](image-url)
56-BA-138 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section

![Graph showing the total cross section as a function of energy. The x-axis represents energy (MeV) ranging from $10^{-2}$ to $10^{-1}$, and the y-axis represents cross section (barns) ranging from $10^{-2}$ to $10^2$. The graph highlights the resonance structure with sharp spikes at specific energy levels.]

- Label: `total`
56-BA-138 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section

Energy (MeV) vs. Cross section (barns)

- The graph shows the relationship between energy (MeV) and cross section (barns).
- The cross section values are plotted on a logarithmic scale.
- The graph includes a line labeled "total."
56-BA-138 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section

Cross section (barns)

Energy (MeV)
56-BA-138 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture

10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1}
56-BA-138 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture
56-BA-138 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

capture
56-BA-138 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

![Graph showing resonance absorption cross sections for 56-BA-138. The x-axis represents energy (MeV) on a logarithmic scale, ranging from 10^{-1} to 10^0. The y-axis represents cross section (barns) on a logarithmic scale, ranging from 10^{-5} to 10^{-1}. The graph shows peak resonances at various energies and a general trend.]
56-BA-138 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

![Graph showing cross section (barns) vs. Energy (MeV)]

- Capture peak at around 10 MeV.
56-BA-138 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Heating

- Energy (MeV)
- Heating (MeV/reaction)
56-BA-138 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Non-threshold reactions

Energy (MeV)

Cross section (barns)
Principal cross sections

- Total
- Absorption
- Elastic
- Gamma production

Cross section (barns) vs. Energy (MeV)
56-BA-138 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+

Heating

Heating (MeV/reaction)

Energy (MeV)

0 50 100 150 200

0 5 10 15 20 25 30 35
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Non-threshold reactions

![Graph showing cross section as a function of energy for a nuclear reaction. The y-axis represents cross section in barns, and the x-axis represents energy in MeV. The graph has a peak near 2 MeV and another peak near 12 MeV. The notation (n,gma) indicates the type of reaction.]
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Inelastic levels

Energy (MeV)

Cross section (barns)

(n,n^1)
(n,n^2)
(n,n^3)

Energy (MeV)

0 2 4 6 8 10 12 14 16 18 20
Threshold reactions

Cross section (barns) vs Energy (MeV)

- (n,n^*c)
- (n,p)
- (n,d)
- (n,t)
- (n,he3)
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Threshold reactions

Cross section (barns) vs Energy (MeV) graph.
56-BA-138 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+

Threshold reactions

Cross section (barns)

Energy (MeV)
angular distribution for elastic
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angular distribution for elastic
56-BA-138 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,2n)
56-BA-138 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,3n)
56-BA-138 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*)a
56-BA-138 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*1)
56-BA-138 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*2)
56-BA-138 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*3)
56-BA-138 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*c)
56-BA-138 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Neutron emission for (n,x)
56-BA-138 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Neutron emission for (n,2n)
56-BA-138 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Neutron emission for (n,3n)
56-BA-138 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Neutron emission for (n,n*)a
56-BA-138 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Neutron emission for (n,n*)p
56-BA-138 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Neutron emission for (n,n*c)
Photon emission for (n,x)
56-BA-138 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Particle heating contributions

![Graph showing particle heating contributions. The x-axis represents energy (MeV) and the y-axis represents MeV/collision. Different particles are represented by different lines: protons in black, deuterons in red, tritons in green, he-3 in blue, and alphas in pink.](image-url)
Particle production cross sections

Energy (MeV)

Cross section (barns)

- protons
- deuterons
- tritons
- he-3
- alphas
56-BA-138 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
protons from (n,x)
56-BA-138 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
deuterons from (n,x)
56-BA-138 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
tritons from (n,x)
56-BA-138 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
he3s from (n,x)
56-BA-138 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
alphas from (n,x)