26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
Principal cross sections

Energy (MeV)

Cross section (barns)

- total
- absorption
- elastic
- gamma production

Energy (MeV)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
resonance total cross section

Energy (MeV) vs. Cross section (barns) plot.
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
resonance total cross section

Energy (MeV)

Total

Cross section (barns)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
resonance total cross section
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
resonance total cross section

Energy (MeV)

Cross section (barns)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
resonance absorption cross sections

capture
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
resonance absorption cross sections

![Graph showing resonance absorption cross sections with Energy (MeV) on the x-axis and Cross section (barns) on the y-axis. The graph includes multiple resonances indicated by peaks at various energy levels. The line is labeled 'capture'.]
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
resonance absorption cross sections

capture
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture
Non-threshold reactions

Energy (MeV)

Cross section (barns)

(n,gma)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
Principal cross sections

Energy (MeV)

Cross section (barns)

- total
- absorption
- elastic
- gamma production

Energy (MeV)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
Damage

![Graph showing the relationship between energy (MeV) and damage (MeV-barns). The x-axis represents energy in MeV ranging from 0 to 160, and the y-axis represents damage in MeV-barns ranging from 0 to 400. The line graph shows an increase in damage as energy increases, peaking around 40 MeV and then decreasing gradually.]
Non-threshold reactions

Cross section (barns)

Energy (MeV)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
Inelastic levels

![Graph showing cross-section vs energy for different inelastic levels](image-url)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
Inelastic levels

Energy (MeV)

Cross section (barns)

(n,n^11)
(n,n^12)
(n,n^13)
(n,n^14)
(n,n^15)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
Inelastic levels

Energy (MeV)

Cross section (barns)

- (n,n*16)
- (n,n*17)
- (n,n*18)
- (n,n*19)
- (n,n*20)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
Inelastic levels

![Graph showing inelastic levels for 26-FE-56]

- (n,n^21)
- (n,n^22)
- (n,n^23)
- (n,n^24)
- (n,n^25)

Energy (MeV) vs. Cross section (barns)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
Inelastic levels

![Graph showing energy vs. cross section for reactions (n,n*36), (n,n*37), (n,n*38), and (n,n*39).]
Threshold reactions

Cross section (barns)

Energy (MeV)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
Threshold reactions

![Graph showing cross section as a function of energy for the (n,2p) reaction.]
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
Threshold reactions

![Graph showing cross section vs. energy for different reactions](image-url)
Threshold reactions

Cross section (barns) vs. Energy (MeV)

(n,p*5)
(n,p*6)
(n,p*7)
(n,p*8)
(n,p*9)
Threshold reactions

Energy (MeV)

Cross section (barns)

(n,\text{p}^\text{c})
(n,\text{a}^0)
(n,\text{a}^1)
(n,\text{a}^2)
(n,\text{a}^3)
Threshold reactions

Cross section (barns) vs. Energy (MeV)

- (n,a*4)
- (n,a*5)
- (n,a*6)
- (n,a*7)
- (n,a*8)
Threshold reactions

Energy (MeV)

Cross section (barns)

(n,a\textsuperscript{14})
(n,a\textsuperscript{15})
(n,a\textsuperscript{16})
(n,a\textsuperscript{17})
(n,a\textsuperscript{18})
angular distribution for elastic
angular distribution for elastic
angular distribution for (n,n*1)
angular distribution for (n,n*1)
angular distribution for (n,n*2)
angular distribution for \((n,n*2)\)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
angular distribution for \( (n,n*3) \)
angular distribution for (n,n*3)
angular distribution for (n,n*4)
angular distribution for (n,n*4)
angular distribution for (n,n*5)
angular distribution for \((n,n^*5)\)
angular distribution for \((n,n^*6)\)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
angular distribution for (n,n*6)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
angular distribution for \((n, n*7)\)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
angular distribution for (n,n*7)
angular distribution for (n,n*8)
angular distribution for (n,n*9)
angular distribution for (n,n*9)
angular distribution for (n,n*10)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
angular distribution for (n,n*10)
angular distribution for (n,n*11)
angular distribution for \((n,n^*11)\)
angular distribution for \( (n,n*12) \)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
angular distribution for (n,n*12)
angular distribution for (n,n*13)
angular distribution for $(n,n^{*13})$
angular distribution for (n,n*14)
angular distribution for (n,n*14)
angular distribution for (n,n*15)
angular distribution for \((n,n'15)\)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
angular distribution for (n,n*16)
angular distribution for (n,n*16)
angular distribution for (n,n*17)
angular distribution for (n,n\*17)
angular distribution for \( (n,n^{*18}) \)
angular distribution for (n,n*18)
angular distribution for \((n,n^{*19})\)
angular distribution for (n,n*19)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
angular distribution for (n,n*20)
angular distribution for \((n,n^*20)\)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
angular distribution for (n,n*21)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
angular distribution for \((n,n*21)\)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
angular distribution for (n,n*22)
angular distribution for \((n,n*22)\)
angular distribution for (n,n\*23)
angular distribution for (n,n*23)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
angular distribution for (n,n*24)
26-FE-56 FOR FENDL-3.2 FROM INDEL-1.0 BY NJOY2016.60+
angular distribution for (n,n*24)
angular distribution for (n,n*25)
angular distribution for (n,n*25)
angular distribution for (n,n*26)
angular distribution for (n,n*26)
angular distribution for (n,n*27)
angular distribution for (n,n*27)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
angular distribution for (n,n*28)
angular distribution for $(n, n*28)$
angular distribution for (n,n*29)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
angular distribution for (n,n*29)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
angular distribution for (n,n*30)

Prob|Cos

10^0

10^-2

1.0 0.5 0.0 -0.5 -1.0 20 40 60 80 100 120 140 160

Energy (MeV)

Cosine
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
angular distribution for (n,n*31)
angular distribution for (n,n*32)
angular distribution for (n,n*32)
angular distribution for (n,n*33)
angular distribution for (n,n*33)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
angular distribution for (n,n*34)
angular distribution for (n,n*34)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
angular distribution for (n,n*35)
angular distribution for (n,n*35)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
angular distribution for (n,n*36)
angular distribution for (n,n*36)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
angular distribution for (n,n\*37)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
angular distribution for \((n,n^*37)\)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
angular distribution for \((n,n*38)\)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
angular distribution for (n,n*38)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
angular distribution for (n,n*39)
26-FE-56 FOR FENDL-3.2 FROM INDEI-1.0 BY NJOY2016.60+
angular distribution for (n,n*39)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
Neutron emission for (n,x)
Neutron emission for (n,2n)
Neutron emission for (n, n\textsuperscript{c})
Photon emission for \((n,x)\)
Photon emission for (n,2n)
Photon emission for \((n,n^*c)\)
Photon emission for (n,gma)
Photon emission for (n,2p)
Photon emission for (n,p*c)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
14 MeV photon spectrum
Particle heating contributions

Energy (MeV) vs. MeV/collision for protons, deuterons, tritons, he-3, and alphas.
Recoil Heating

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

- Heating values increase with energy.
- There are fluctuations in the heating values.
- The heating reaches a peak and then increases again.
Particle production cross sections

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

Energy (MeV)

Cross section (barns)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+ protons from (n,x)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
protons from (n,2p)
angular distribution for \((n,p^0)\) proton

Energy (MeV)

Cosine

\[ \frac{\text{Prob}}{\text{Cos}} \times 10^0 \]

\[ \frac{\text{Prob}}{\text{Cos}} \times 10^1 \]

\[ \frac{\text{Prob}}{\text{Cos}} \times 10^{-1} \]

\[ \frac{\text{Prob}}{\text{Cos}} \times 10^{-2} \]

\[ \frac{\text{Prob}}{\text{Cos}} \times 10^{-3} \]

\[ \frac{\text{Prob}}{\text{Cos}} \times 10^{-4} \]
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
angular distribution for (n,p*0) proton
angular distribution for (n,p*1) proton
angle distribution for (n, p*1) proton
angular distribution for (n,p*2) proton
angular distribution for (n,p*2) proton
angular distribution for (n,p*) proton
angular distribution for (n,p*3) proton
angular distribution for (n,p*4) proton
angular distribution for (n,p*5) proton
angular distribution for (n,p*5) proton
angular distribution for (n,p*6) proton
angular distribution for (n,p*6) proton
angular distribution for (n,p*7) proton
angular distribution for (n,p*7) proton
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
angular distribution for \(n, p^*8\) proton
angular distribution for \((n,p^*8)\) proton
angular distribution for (n,p*9) proton
angular distribution for (n,p^9) proton
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
protons from (n,p*c)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
deuterons from (n,x)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
he3s from (n,x)
26-FE-56 FOR FENDL-3.2 FROM INDEN-1.0 BY NJOY2016.60+
alphas from (n,x)