92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section

Energy (MeV)

Cross section (barns)

- total
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section

Energy (MeV)

Cross section (barns)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section

![Graph showing the total cross section of 92-U-238 as a function of energy (MeV). The y-axis represents the cross section in barns, and the x-axis represents the energy in MeV. The data shows a detailed resonance structure across the energy spectrum.]
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section

Energy (MeV) vs. Cross section (barns)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section

Energy (MeV)

Cross section (barns)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

Cross section (barns)

Energy (MeV)

- capture
- fission
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

- capture
- fission
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

![Graph showing resonance absorption cross sections for 92-U-238 from FENDL-3.2 using NJOY2016.60+ software. The x-axis represents energy in MeV, and the y-axis represents cross section in barns. The graph exhibits a complex pattern with capture and fission events marked.](image-url)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

Energy (MeV) vs. Cross section (barns)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

Energy (MeV) vs. Cross section (barns)

- Solid line: capture
- Dashed line: fission
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

- Capture
- Fission

Energy (MeV)

Cross section (barns)

Log-log scale for both axes.
92-U-238 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
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
UR elastic cross section

Energy (MeV) vs. Cross section (barns) graph
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+ UR fission cross section

Energy (MeV) vs. Cross section (barns) graph.
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
UR capture cross section

Energy (MeV)

10^{-1}

10^{0}

Cross section (barns)

Inf. Dil.

100 b

1 b
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+

Heating

Heating (MeV/reaction)

Energy (MeV)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+

Damage

Energy (MeV)

Damage (MeV-barns)
Non-threshold reactions

92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+

Cross section (barns)

Energy (MeV)

- fission
- (n,gma)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+

Damage

Energy (MeV)

Damage (MeV-barns)

*10^{-3}
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Non-threshold reactions

Cross section (barns) vs. Energy (MeV)

- Fission
- (n,gma)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Inelastic levels

Cross section (barns)

Energy (MeV)

$\sigma_{(n,n^1)}$

$\sigma_{(n,n^2)}$

$\sigma_{(n,n^3)}$

$\sigma_{(n,n^4)}$

$\sigma_{(n,n^5)}$
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Inelastic levels

Cross section (barns)

Energy (MeV)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 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)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Inelastic levels

Cross section (barns)

Energy (MeV)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Inelastic levels

Cross section (barns)

Energy (MeV)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Inelastic levels

The graph shows the inelastic cross sections for the reactions $(n,n^{*}26)$, $(n,n^{*}27)$, $(n,n^{*}28)$, $(n,n^{*}29)$, and $(n,n^{*}30)$ as a function of energy. The cross sections are represented on a logarithmic scale with units of barns. The energy is measured in MeV, ranging from 0 to 30 MeV on the x-axis. The graph illustrates how the cross sections vary with energy, with each reaction having a distinct curve.
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Inelastic levels

Cross section (barns) vs. Energy (MeV)

- (n,n^31)
- (n,n^32)
- (n,n^33)
- (n,n^34)
- (n,n^35)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Threshold reactions

![Graph showing cross section vs energy for different reactions]

- (n,x)
- (n,2n)
- (n,3n)
- (n,4n)
- (n,n*+c)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Threshold reactions

Cross section (barns)

Energy (MeV)

(n,xp)
(n,xd)
(n,xt)
(n,xhe3)
(n,xa)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for elastic
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for elastic
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*1)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*2)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*3)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*4)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for \((n,n^*5)\)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*6)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*7)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
n-8 distribution for (n,n*8)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*9)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*10)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*11)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*12)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60
angular distribution for \((n,n^*13)\)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*14)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*15)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*16)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*17)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*18)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for \((n,n^*19)\)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for \((n,n^*20)\)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for \((n,n^\ast 21)\)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*22)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*24)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*25)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*26)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*27)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*28)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*29)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*30)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*31)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*32)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for \( (n, n^*33) \)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*34)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*35)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*36)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*37)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*38)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for \((n,n^*39)\)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for \((n, n'40)\)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Neutron emission for (n,x)
Neutron emission for (n,2n)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Neutron emission for (n,3n)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Neutron emission for fission
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Neutron emission for (n,4n)
Neutron emission for (n,n*c)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Delayed nubar
Delayed neutron spectra

- Group 1: 0.0139 decay/shake, $1.363 \times 10^{-10}$
- Group 2: 0.1128 decay/shake, $3.133 \times 10^{-10}$
- Group 3: 0.1310 decay/shake, $1.233 \times 10^{-9}$
- Group 4: 0.3851 decay/shake, $3.237 \times 10^{-9}$
- Group 5: 0.2540 decay/shake, $9.060 \times 10^{-9}$
- Group 6: 0.1031 decay/shake, $3.049 \times 10^{-8}$
Photon emission for fission
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Photon emission for \((n,\gamma\alpha)\)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Photon emission for nonelastic
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Photon emission for (n,x)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
thermal capture photon spectrum
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+ 14 MeV photon spectrum
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Particle heating contributions

![Graph showing particle heating contributions](image-url)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Recoil Heating

![Graph showing the relationship between energy (MeV) and heating (MeV/reaction).]
Particle production cross sections

Cross section (barns)

Energy (MeV)

- protons
- deuterons
- tritons
- he-3
- alphas
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+ protons from (n,x)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
protons from fission
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
deuterons from (n,x)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
tritons from (n,x)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
tritons from fission
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
he3s from (n,x)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
alphas from (n,x)
92-U-238 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
alphas from fission