50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60
resonance total cross section

Energy (MeV)

Cross section (barns)

10^{-6} to 10^{-5}
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section

Energy (MeV)

Cross section (barns)

10^{-5} -- 10^{-4}
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section

Energy (MeV)

Cross section (barns)

10^{-3}  10^{1}  10^{2}  10^{-2}
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section

Energy (MeV)

Cross section (barns)

10^0  10^1

total
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

![Graph showing cross section vs. energy]
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

Energy (MeV)

Capture

Cross section (barns)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+ resonance absorption cross sections

![Graph showing cross-section vs. energy for 50-SN-119. The x-axis represents energy in MeV, ranging from $10^0$ to $10^1$, and the y-axis represents cross-section in barns, ranging from $10^{-2}$ to $10^0$. The graph includes a line labeled 'capture'.]
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
UR total cross section

![Graph showing cross section vs. energy](image-url)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
UR elastic cross section

Energy (MeV)

Cross section (barns)

- Inf. Dil.
- 100 b
- 1 b
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
UR capture cross section
Non-threshold reactions

Cross section (barns)

Energy (MeV)
Principal cross sections

- Total cross section
- Absorption cross section
- Elastic cross section
- Gamma production cross section

Energy (MeV) vs. Cross section (barns)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+

Heating

Heating (MeV/reaction) vs. Energy (MeV)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+

Damage

Damage (MeV-barns) vs. Energy (MeV)
Non-threshold reactions

Energy (MeV) vs. Cross section (barns)

- (n,gma)
- (n,a)
- (n,xa)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Inelastic levels
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Inelastic levels
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Inelastic levels

Cross section (barns) vs. Energy (MeV)
- (n,n^21)
- (n,n^22)
- (n,n^23)
Threshold reactions

Cross section (barns)

Energy (MeV)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Threshold reactions

![Graph showing cross sections for different reactions as a function of energy (MeV).]

- (n,n*)d
- (n,n*c)
- (n,p)
- (n,d)
- (n,t)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Threshold reactions

![Graph showing cross section vs. energy for various reactions: (n,he3), (n,xp), (n,xd), (n,xt), and (n,xhe3). The x-axis represents energy in MeV ranging from 0 to 200, and the y-axis represents cross section in barns ranging from 0 to 2.0. The graph demonstrates the increase in cross section with energy for each reaction type.]
angular distribution for elastic
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for elastic
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*1)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*2)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*3)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
ger angular distribution for (n,n*4)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*5)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for \((n,n^*6)\)
angular distribution for \((n,n^*7)\)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*8)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for \((n,n^*9)\)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*10)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*11)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*12)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*13)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*14)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*15)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+ angular distribution for (n,n*16)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*17)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for \((n,n^*18)\)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for \( (n,n'19) \)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*20)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*21)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*22)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for \((n,n^*23)\)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Neutron emission for \((n,x)\)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Neutron emission for (n,2n)
Neutron emission for (n,3n)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Neutron emission for (n,n*)a
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Neutron emission for (n,n*)p
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Neutron emission for (n,n*c)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Photon emission for (n,x)
Photon emission for (n,2n)
Photon emission for (n,3n)
Photon emission for (n,n*)a
Photon emission for \((n,n^*)p\)
Photon emission for \((n,n^*)d\)
Photon emission for (n,n\*1)
Photon emission for (n,n*3)
Photon emission for (n,n*4)
Photon emission for (n,n*5)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Photon emission for \((n,n^*6)\)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Photon emission for \((n,n^*8)\)
Photon emission for (n,n*9)
Photon emission for (n,n*10)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Photon emission for (n,n*11)
Photon emission for \((n,n'12)\)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Photon emission for \((n,n^*13)\)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Photon emission for (n,n*14)
Photon emission for \((n,n^*15)\)
Photon emission for \((n,n^*16)\)
Photon emission for (n,n*17)
Photon emission for (n,n*18)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Photon emission for (n,n*19)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Photon emission for (n,n*20)
Photon emission for (n,n'*21)
Photon emission for (n,n*22)
Photon emission for \((n,n^*23)\)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Photon emission for (n,n^*c)
Photon emission for (n, gamma)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
thermal capture photon spectrum
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
14 MeV photon spectrum

Gamma Energy (MeV)

Gamma Prod (barns/MeV)
Particle heating contributions

- protons
- deuterons
- tritons
- he-3
- alphas
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Particle production cross sections

![Graph showing particle production cross sections for different particles (protons, deuterons, tritons, he-3, alphas) as a function of energy (MeV). The graph plots the cross section (barns) on the y-axis against energy (MeV) on the x-axis.]
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
protons from (n,x)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
protons from (n,n*)p
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
deuterons from (n,x)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
deuterons from (n,n*)d
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
tritons from (n,x)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
he3s from (n,x)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+ alphas from (n,x)
50-SN-119 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
alphas from (n,n\*)a