27-CO-59 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section

Energy (MeV)
Cross section (barns)
27-CO-59 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section

![Graph showing resonance total cross section.](image)
27-CO-59 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section
27-CO-59 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section

Energy (MeV)

Cross section (barns)

total
27-CO-59 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance total cross section
27-CO-59 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

![Graph showing the relationship between energy (MeV) and cross section (barns). The graph has a log-log scale with a peak at low energy and a decreasing trend at higher energies.]
27-CO-59 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

cross section (barns)

Energy (MeV)
27-CO-59 FOR FENDL-3.2 FROM FENDL-3.2 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 a label for 'capture'.]
27-CO-59 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
resonance absorption cross sections

![Graph showing the cross section (barns) vs. Energy (MeV) for capture.](image)
27-CO-59 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+ resonance absorption cross sections

![Graph showing capture cross section versus energy in MeV](image_url)

- Y-axis: Cross section (barns)
- X-axis: Energy (MeV)
Non-threshold reactions

Energy (MeV)

Cross section (barns)
Principal cross sections

- **Total**
- **Absorption**
- **Elastic**
- **Gamma production**

Energy (MeV) vs. Cross section (barns)
27-CO-59 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+

Heating

Heating (MeV/reaction) vs. Energy (MeV)
27-CO-59 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Non-threshold reactions

Cross section (barns)

Energy (MeV)
27-CO-59 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Inelastic levels

Cross section (barns)

Energy (MeV)

(n,n*1) (n,n*2) (n,n*3) (n,n*4) (n,n*5)
27-CO-59 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Inelastic levels

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

- Cross section (barns)
- Energy (MeV)
- Curves for different reactions: (n,n*6), (n,n*7), (n,n*8), (n,n*9), (n,n*10)
27-CO-59 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Inelastic levels
27-CO-59 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Inelastic levels

Energy (MeV)

Cross section (barns)

*10^-3

(n,n*16)
(n,n*17)
(n,n*18)
(n,n*19)

Energy (MeV)
27-CO-59 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60 + Threshold reactions

- (n,xp)
- (n,xd)
- (n,xt)
- (n,xhe3)
- (n,xa)

Cross section (barns)

Energy (MeV)
angular distribution for elastic
angular distribution for elastic
angular distribution for (n,2n)
angular distribution for \((n,n^*)a\)
angular distribution for (n,n*)p
27-CO-59 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*)d
angular distribution for \((n,n^*)t\)
27-CO-59 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*1)
angular distribution for \((n,n^2)\)
angular distribution for (n,n*3)
angular distribution for (n,n*5)
27-CO-59 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*6)
angular distribution for (n,n*7)
27-CO-59 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*8)
27-CO-59 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*9)
27-CO-59 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*10)
27-CO-59 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*11)
27-CO-59 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*12)
angular distribution for \((n, n*13)\)
27-CO-59 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
angular distribution for (n,n*14)
angular distribution for (n,n*15)
angular distribution for (n,n*16)
angular distribution for (n,n*17)
angular distribution for (n,n*19)
angular distribution for (n,n*c)
27-CO-59 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Neutron emission for (n,x)
27-CO-59 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Neutron emission for (n,2n)
Neutron emission for \((n,n^*)p\)
Neutron emission for (n,n*c)
27-CO-59 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
Photon emission for (n,gma)
Photon emission for nonelastic
Photon emission for (n,x)
27-CO-59 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
thermal capture photon spectrum
27-CO-59 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+ 14 MeV photon spectrum
Particle heating contributions

Energy (MeV) vs. MeV/collision for different particles:
- Protons
- Deuterons
- Tritons
- Alphas

Graph shows the increase in MeV/collision with energy for each particle type.
Particle production cross sections

- Protons
- Deuterons
- Tritons
- Alphas
27-CO-59 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
protons from (n,x)
27-CO-59 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
deuterons from (n,x)
27-CO-59 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+
tritons from (n,x)
27-CO-59 FOR FENDL-3.2 FROM FENDL-3.2 BY NJOY2016.60+ alphas from (n,x)