N + 28-NI-61 ENDF/B-VI.6 APT LA150 NJOY 99
resonance total cross section

Cross section (barns)

Energy (MeV)
N + 28-NI-61 ENDF/B-VI.6 APT LA150 NJOY 99
resonance total cross section

![Graph of total cross section vs. energy (MeV). The x-axis ranges from $10^{-2}$ to $10^{-1}$ MeV, and the y-axis ranges from $10^{-1}$ to $10^2$ barns. The graph shows a series of oscillations and spikes characteristic of a resonance structure.]
N + 28-NI-61 ENDF/B-VI.6 APT LA150 NJOY 99
resonance total cross section

Energy (MeV)

Cross section (barns)
N + 28-NI-61 ENDF/B-VI.6 APT LA150 NJOY 99
resonance total cross section
N + 28-NI-61 ENDF/B-VI.6 APT LA150 NJOY 99
resonance absorption cross sections

![Graph showing resonance absorption cross sections.](image-url)
N + 28-NI-61 ENDF/B-VI.6 APT LA150 NJOY 99
resonance absorption cross sections

Energy (MeV) vs. Cross section (barns)
N + 28-NI-61 ENDF/B-VI.6 APT LA150 NJOY 99
resonance absorption cross sections

![Graph showing resonance absorption cross sections](graph.png)
N + 28-NI-61 ENDF/B-VI.6 APT LA150 NJOY 99
resonance absorption cross sections

- Capture: A plot showing the energy (in MeV) on the x-axis and the cross section (in barns) on the y-axis, with the cross section decreasing as the energy increases.
Non-threshold reactions

Energy (MeV)

Cross section (barns)
Principal cross sections

Energy (MeV)

Cross section (barns)

- total
- absorption
- elastic
- gamma production

N + 28-NI-61 ENDF/B-VI.6 APT LA150 NJOY 99
N + 28-NI-61 ENDF/B-VI.6 APT LA150 NJOY 99
Non-threshold reactions

![Graph showing energy vs. cross section for the reaction (n,gma)]
N + 28-NI-61 ENDF/B-VI.6 APT LA150 NJOY 99
Inelastic levels

Energy (MeV)

Cross section (barns)

0 100 200 300 400 500 600 700

*10^{-3}

0 2 4 6 8 10 12 14 16 18 20

Energy (MeV)

(n,n*1)
(n,n*2)
(n,n*3)
(n,n*4)
(n,n*5)
N + 28-NI-61 ENDF/B-VI.6 APT LA150 NJOY 99
Threshold reactions

Cross section (barns)

Energy (MeV)
Threshold reactions

Energy (MeV)

Cross section (barns)

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

Energy (MeV)
angular distribution for elastic
N + 28-NI-61 ENDF/B-VI.6 APT LA150 NJOY 99
angular distribution for elastic
Neutron emission for (n,x)
Neutron emission for (n,2n)
Neutron emission for $(n,n^*)p$
Neutron emission for (n,n^c)
Photon emission for (n,gma)
Photon emission for (n,x)
Photon emission for (n,2n)
Photon emission for $(n,n^*)p$
Photon emission for \((n,n^*c)\)
Photon emission for (n,p)
Photon emission for (n,a)
N + 28-NI-61 ENDF/B-VI.6 APT LA150 NJOY 99
thermal capture photon spectrum
N + 28-NI-61 ENDF/B-VI.6 APT LA150 NJOY 99
14 MeV photon spectrum
Particle heating contributions

Energy (MeV)

MeV/collision

Energy (MeV)

- protons
- deuterons
- tritons
- alphas
N + 28-NI-61 ENDF/B-VI.6 APT LA150 NJOY 99
protons from (n,x)
N + 28-NI-61 ENDF/B-VI.6 APT LA150 NJOY 99
protons from (n,n*)p
protons from (n,p)
N + 28-NI-61 ENDF/B-VI.6 APT LA150 NJOY 99
deuteron from (n,x)
N + 28-NI-61 ENDF/B-VI.6 APT LA150 NJOY 99
tritons from (n,x)
N + 28-NI-61 ENDF/B-VI.6 APT LA150 NJOY 99
alphas from (n,x)
N + 28-NI-61 ENDF/B-VI.6 APT LA150 NJOY 99
alphas from (n,a)