ENDF/B-VII.1 NI-58
resonance total cross section

![Graph showing the total cross section as a function of energy. The y-axis represents cross section in barns on a log scale, ranging from $10^{-3}$ to $10^{1}$, and the x-axis represents energy in MeV from $10^{-3}$ to $10^{-2}$. The line is labeled 'total'.]
ENDF/B-VII.1 NI-58
resonance total cross section

Energy (MeV)

Cross section (barns)
ENDF/B-VII.1 NI-58
resonance total cross section
ENDF/B-VII.1 NI-58
resonance total cross section

Cross section (barns)

Energy (MeV)
ENDF/B-VII.1 NI-58
resonance absorption cross sections

![Graph showing the cross section (barns) vs. Energy (MeV). The graph includes a peak at a specific energy level, indicating resonance absorption.]

- **Cross section (barns)**
- **Energy (MeV)**

The graph illustrates the resonance absorption cross sections for NI-58 in the ENDF/B-VII.1 format.
ENDF/B-VII.1 NI-58
resonance absorption cross sections

Energy (MeV)

Cross section (barns)
ENDF/B-VII.1 NI-58
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture
ENDF/B-VII.1 NI-58
Non-threshold reactions

Energy (MeV)

Cross section (barns)

(n,gma)
ENDF/B-VII.1 NI-58
Principal cross sections

Energy (MeV)

Cross section (barns)

- total
- absorption
- elastic
- gamma production

Energy (MeV)

Cross section (barns)
ENDF/B-VII.1 NI-58
Heating

Heating (MeV/reaction) vs. Energy (MeV)
ENDF/B-VII.1 NI-58
Damage

![Graph showing the relationship between Energy (MeV) and Damage (MeV-barns). The graph indicates a non-linear increase in damage up to a certain energy level, followed by a decrease.](image)
ENDF/B-VII.1 NI-58
Non-threshold reactions

Cross section (barns) vs. Energy (MeV)

- Plot shows data for the reaction (n,gma) as a function of energy.
- The x-axis represents energy in MeV, ranging from 0 to 20.
- The y-axis represents the cross section in barns, ranging from $10^{-4}$ to $10^{-2}$.
- The graph indicates a decrease in cross section with increasing energy, with a notable peak at lower energies.
ENDF/B-VII.1 NI-58
Inelastic levels

Energy (MeV)

Cross section (barns)

(n,n*6)
(n,n*7)
(n,n*8)
ENDF/B-VII.1 NI-58
Threshold reactions

- (n,p)
- (n,d)
- (n,a)
- (n,pa)
ENDF/B-VII.1 NI-58
Threshold reactions

Cross section (barns)

Energy (MeV)
ENDF/B-VII.1 NI-58
angular distribution for elastic
ENDF/B-VII.1 NI-58
angular distribution for elastic
ENDF/B-VII.1 NI-58
angular distribution for (n,n*1)
ENDF/B-VII.1 NI-58
angular distribution for (n,n*2)
ENDF/B-VII.1 NI-58
angular distribution for (n,n*3)

Energy (MeV)

Cosine

Prob/Cos

10

1

10

1

10

1

10

10

10

10

10

10

10

10
ENDF/B-VII.1 NI-58 angular distribution for \((n,n^*6)\)
ENDF/B-VII.1 NI-58
angular distribution for (n,n*7)
ENDF/B-VII.1 NI-58
Neutron emission for (n,x)
ENDF/B-VII.1 NI-58
Neutron emission for (n,2n)
ENDF/B-VII.1 NI-58
Neutron emission for \((n, n^*)p\)
ENDF/B-VII.1 NI-58
Photon emission for (n,gma)
ENDF/B-VII.1 NI-58
Photon emission for (n,x)
ENDF/B-VII.1 NI-58
Photon emission for \((n,2n)\)
ENDF/B-VII.1 NI-58
Photon emission for (n,n*)a
ENDF/B-VII.1 NI-58
Photon emission for \((n,n^*)p\)
ENDF/B-VII.1 NI-58
Photon emission for (n,n*c)
Photon emission for \((n,p)\)
ENDF/B-VII.1 NI-58
Photon emission for (n,a)
ENDF/B-VII.1 NI-58 thermal capture photon spectrum
ENDF/B-VII.1 NI-58
14 MeV photon spectrum
ENDF/B-VII.1 NI-58
Particle heating contributions

- protons
- deuterons
- tritons
- alphas

Energy (MeV)

MeV/collision

Energy (MeV)
ENDF/B-VII.1 NI-58
Particle production cross sections

- Protons
- Deuterons
- Tritons
- Alphas
ENDF/B-VII.1 NI-58
protons from (n,x)
ENDF/B-VII.1 NI-58
protons from (n,n*)p
ENDF/B-VII.1 NI-58
protons from (n,p)
ENDF/B-VII.1 NI-58 deuterons from (n,x)
ENDF/B-VII.1 NI-58
tritons from (n,x)
ENDF/B-VII.1 NI-58
alphas from (n,n*)a
ENDF/B-VII.1 NI-58
alphas from (n,a)