ENDF/B-VII.1 NI-62
Principal cross sections

Energy (MeV)

Cross section (barns)

- total
- absorption
- elastic
- gamma production

[Graph showing the cross sections as a function of energy with different markers for total, absorption, elastic, and gamma production.]
ENDF/B-VII.1 NI-62
resonance total cross section
ENDF/B-VII.1 NI-62
resonance total cross section

Energy (MeV)

Cross section (barns)
ENDF/B-VII.1 NI-62
resonance total cross section
ENDF/B-VII.1 NI-62
resonance total cross section

Energy (MeV)

Cross section (barns)

total

Energy (MeV)
ENDF/B-VII.1 NI-62
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
ENDF/B-VII.1 NI-62
resonance absorption cross sections

![Graph showing resonance absorption cross sections with energy on the x-axis and cross section on the y-axis in a log-log scale. The graph displays multiple sharp peaks indicating resonances.]
ENDF/B-VII.1 NI-62
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture
ENDF/B-VII.1 NI-62
Non-threshold reactions

![Graph showing non-threshold reactions with energy on the x-axis and cross section on the y-axis, with a smooth curve representing (n,gma) reactions.](image)
ENDF/B-VII.1 NI-62
Principal cross sections

Energy (MeV)

Cross section (barns)

- total
- absorption
- elastic
- gamma production
ENDF/B-VII.1 NI-62
Heating

Heating (MeV/reaction)

Energy (MeV)
ENDF/B-VII.1 NI-62
Non-threshold reactions

Cross section (barns) vs. Energy (MeV)

10^{-2}
10^{-3}
10^{-4}

(n,gma)
ENDF/B-VII.1 NI-62
Inelastic levels

Cross section (barns)

Energy (MeV)

(n,n*1) (n,n*2) (n,n*3) (n,n*4)
ENDF/B-VII.1 NI-62
Threshold reactions

Cross section (barns)

Energy (MeV)
ENDF/B-VII.1 NI-62
angular distribution for elastic
ENDF/B-VII.1 NI-62
angular distribution for elastic
ENDF/B-VII.1 NI-62
Neutron emission for (n,x)
ENDF/B-VII.1 NI-62
Neutron emission for (n,2n)
ENDF/B-VII.1 NI-62
Neutron emission for (n,n*)a
ENDF/B-VII.1 NI-62
Neutron emission for (n,n*)p

\[ \text{Prob/MeV} \]

\[ \text{Sec. Energy} \]

\[ \text{Energy (MeV)} \]
ENDF/B-VII.1 NI-62
Neutron emission for (n,n*c)
ENDF/B-VII.1 NI-62
Photon emission for (n,gma)
ENDF/B-VII.1 NI-62
Photon emission for (n,x)
ENDF/B-VII.1 NI-62
Photon emission for (n,2n)
ENDF/B-VII.1 NI-62
Photon emission for \((n,n^*)a\)
ENDF/B-VII.1 NI-62
Photon emission for \((n,n^*)p\)
ENDF/B-VII.1 NI-62
Photon emission for (n,p)
ENDF/B-VII.1 NI-62
Photon emission for (n,a)
ENDF/B-VII.1 NI-62
thermal capture photon spectrum

Gamma Energy (MeV)

Gamma Prod (barns/MeV)
ENDF/B-VII.1 NI-62
14 MeV photon spectrum
ENDF/B-VII.1 NI-62
Particle production cross sections

Energy (MeV)

Cross section (barns)

protons
deuterons
tritons
alphas
ENDF/B-VII.1 NI-62
protons from \((n,x)\)
ENDF/B-VII.1 NI-62
protons from (n,n*)p

ProbaMeV

10^{-1}

10^{-3}

0

Sec. Energy

5

10

10

12

14

16

18

20

Energy (MeV)
ENDF/B-VII.1 NI-62 protons from (n,p)
ENDF/B-VII.1 NI-62 deuterons from (n,x)
ENDF/B-VII.1 NI-62
tritons from (n,x)
ENDF/B-VII.1 NI-62
alphas from (n,x)
ENDF/B-VII.1 NI-62
alphas from \((n,n^*)a\)
ENDF/B-VII.1 NI-62
alphas from (n,a)