ENDF/B-VII.1 ZN-70
resonance total cross section

Energy (MeV)

Cross section (barns)
ENDF/B-VII.1 ZN-70
resonance total cross section

Energy (MeV)

Cross section (barns)
ENDF/B-VII.1 ZN-70
resonance absorption cross sections
ENDF/B-VII.1 ZN-70
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
ENDF/B-VII.1 ZN-70 UR total cross section

Energy (MeV) vs. Cross section (barns)

- Inf. Dil.
- 100 b
- 1 b
ENDF/B-VII.1 ZN-70
UR capture cross section

Energy (MeV) vs. Cross section (barns)

- Inf. Dil.
- 100 b
- 1 b

Cross section values are given in units of barns (b) on a logarithmic scale.
ENDF/B-VII.1 ZN-70
Damage

![Graph showing damage as a function of energy (MeV). The x-axis represents energy in MeV, ranging from 10^{-11} to 10^1, and the y-axis represents damage in MeV-barns, ranging from 10^{-6} to 10^{-1}. The damage decreases exponentially for low energies and increases sharply for higher energies.](image)
ENDF/B-VII.1 ZN-70
Non-threshold reactions

Energy (MeV)

Cross section (barns)

(n,gma)
ENDF/B-VII.1 ZN-70
Principal cross sections

Energy (MeV)

Cross section (barns)

- total
- absorption
- elastic
- gamma production

Energy (MeV)
ENDF/B-VII.1 ZN-70 Heating

Energy (MeV) vs. Heating (MeV/reaction)
ENDF/B-VII.1 ZN-70 Damage

Energy (MeV) vs Damage (MeV-barns) graph.
ENDF/B-VII.1 ZN-70
Non-threshold reactions

Energy (MeV)

Cross section (barns)

\( (n,gma) \)
ENDF/B-VII.1 ZN-70
Inelastic levels

Cross section (barns)

Energy (MeV)
ENDF/B-VII.1 ZN-70
Threshold reactions

Energy (MeV)

Cross section (barns)

- (n,n^c)
- (n,p)
- (n,d)
- (n,t)
- (n,he3)
ENDF/B-VII.1 ZN-70
Threshold reactions

Energy (MeV) vs. Cross section (barns)

(\(n,a\))
ENDF/B-VII.1 ZN-70
angular distribution for elastic
ENDF/B-VII.1 ZN-70
angular distribution for (n,n*1)
ENDF/B-VII.1 ZN-70
angular distribution for (n,n*2)
ENDF/B-VII.1 ZN-70
angular distribution for (n,n*3)
ENDF/B-VII.1 ZN-70
angular distribution for (n,n*4)
ENDF/B-VII.1 ZN-70
angular distribution for (n,n*5)
ENDF/B-VII.1 ZN-70
angular distribution for (n,n*6)
ENDF/B-VII.1 ZN-70
angular distribution for \((n,n^*7)\)
ENDF/B-VII.1 ZN-70
angular distribution for (n,n*8)
ENDF/B-VII.1 ZN-70
Neutron emission for (n,2n)
ENDF/B-VII.1 ZN-70
Neutron emission for (n,3n)
ENDF/B-VII.1 ZN-70
Neutron emission for \((n,n^*)p\)
ENDF/B-VII.1 ZN-70
Neutron emission for (n,n*)d
ENDF/B-VII.1 ZN-70
Photon emission for (n,2n)
ENDF/B-VII.1 ZN-70
Photon emission for (n,3n)
ENDF/B-VII.1 ZN-70
Photon emission for (n,n*)a
ENDF/B-VII.1 ZN-70
Photon emission for (n,n*)p
ENDF/B-VII.1 ZN-70
Photon emission for \((n,n^*)d\)
ENDF/B-VII.1 ZN-70
Photon emission for (n,n*1)
ENDF/B-VII.1 ZN-70
Photon emission for (n,n*2)
ENDF/B-VII.1 ZN-70
Photon emission for (n,n*3)
ENDF/B-VII.1 ZN-70
Photon emission for (n,n*4)
ENDF/B-VII.1 ZN-70
Photon emission for (n,n*5)
ENDF/B-VII.1 ZN-70
Photon emission for (n,n*6)
ENDF/B-VII.1 ZN-70
Photon emission for (n,n*7)
ENDF/B-VII.1 ZN-70
Photon emission for (n,n*8)
ENDF/B-VII.1 ZN-70
Photon emission for (n,n*c)
ENDF/B-VII.1 ZN-70
Photon emission for (n,gma)
ENDF/B-VII.1 ZN-70 thermal capture photon spectrum
ENDF/B-VII.1 ZN-70
14 MeV photon spectrum

![Graph showing the photon spectrum with energy on the x-axis and gamma product on the y-axis in barns per MeV.](image)
ENDF/B-VII.1 ZN-70
Particle heating contributions

Energy (MeV)

*10^{-3} MeV/collision

protons
deuterons
alphas
ENDF/B-VII.1 ZN-70
Particle production cross sections

![Graph showing particle production cross sections for protons, deuterons, and alphas. The x-axis represents energy in MeV, and the y-axis represents cross section in barns. The graph displays three curves, each representing a different type of particle.]
ENDF/B-VII.1 ZN-70
protons from \((n,n^*)p\)
ENDF/B-VII.1 ZN-70
deuterons from \((n,n^*)d\)
ENDF/B-VII.1 ZN-70
alphas from (n,n*)a