ENDF/B-VII.1 BI-209
Principal cross sections
ENDF/B-VII.1 BI-209
resonance total cross section

Cross section (barns)

Energy (MeV)
ENDF/B-VII.1 BI-209
resonance total cross section

Energy (MeV)

Cross section (barns)
ENDF/B-VII.1 BI-209
resonance total cross section
ENDF/B-VII.1 BI-209
resonance total cross section

Energy (MeV)

Cross section (barns)

10^{-1} to 10^{1}
ENDF/B-VII.1 BI-209
resonance total cross section
ENDF/B-VII.1 BI-209
resonance absorption cross sections
ENDF/B-VII.1 BI-209 resonance absorption cross sections
ENDF/B-VII.1 BI-209
resonance absorption cross sections
ENDF/B-VII.1 BI-209
resonance absorption cross sections

Energy (MeV) vs. Cross section (barns)

- Capture process

The graph shows the energy dependence of the capture cross section for a specific nuclide. The cross section is plotted on a log-log scale, indicating a decrease with increasing energy.
ENDF/B-VII.1 BI-209
Damage

Energy (MeV) vs. Damage (MeV-barns) graph.
ENDF/B-VII.1 BI-209
Damage

Energy (MeV)

Damage (MeV-barns)

- damage
ENDF/B-VII.1 BI-209
Non-threshold reactions

Energy (MeV)

Cross section (barns)

- (n,gma)
- (n,p)
- (n,a)
- (n,xp)
- (n,xa)
ENDF/B-VII.1 BI-209
Threshold reactions

Cross section (barns)

Energy (MeV)

- (n,n*)d
- (n,n*)t
- (n,n*c)
- (n,d)
- (n,t)
ENDF/B-VII.1 BI-209
Threshold reactions

Energy (MeV)

Cross section (barns)

- (n,he3)
- (n,xd)
- (n,xt)
- (n,xhe3)
ENDF/B-VII.1 BI-209
angular distribution for elastic
ENDF/B-VII.1 BI-209
Neutron emission for (n,x)
ENDF/B-VII.1 BI-209
Neutron emission for (n,2n)
ENDF/B-VII.1 BI-209
Neutron emission for (n,3n)
ENDF/B-VII.1 BI-209
Neutron emission for \((n,n^*)a\)
ENDF/B-VII.1 BI-209
Neutron emission for \((n,n^*)p\)
ENDF/B-VII.1 BI-209
Neutron emission for \((n,n^*)d\)
ENDF/B-VII.1 BI-209
Neutron emission for \((n,n^*)t\)
ENDF/B-VII.1 BI-209
Neutron emission for (n,n*c)
ENDF/B-VII.1 BI-209
Photon emission for (n,gma)
ENDF/B-VII.1 BI-209
Photon emission for nonelastic
ENDF/B-VII.1 BI-209
Photon emission for (n,x)
ENDF/B-VII.1 BI-209
thermal capture photon spectrum

Gamma Energy (MeV)

Gamma Prod (barns/MeV)
ENDF/B-VII.1 BI-209
Particle heating contributions

Graph showing the energy (MeV) versus MeV/collision for protons, deuterons, tritons, and alphas. The energy increases with an upward curve, and the contributions from different particles are indicated by different line colors and types.
ENDF/B-VII.1 BI-209
Recoil Heating

Heating (MeV/reaction) vs. Energy (MeV)

- Heating (MeV/reaction) scales are from -0.2 to 1.4.
- Energy (MeV) scales are from 0 to 160.

The graph shows the recoil heating as a function of energy, with a clear increase in heating with increasing energy.
Particle production cross sections

Energy (MeV) vs. Cross section (barns)

- Protons
- Deuterons
- Tritons
- Alphas

ENDF/B-VII.1 BI-209
ENDF/B-VII.1 BI-209
protons from (n,x)
ENDF/B-VII.1 BI-209
deuteron from (n,x)
ENDF/B-VII.1 BI-209
tritons from (n,x)
ENDF/B-VII.1 BI-209
alphas from (n,x)