ENDF/B-VII.1 CR-52
Principal cross sections
ENDF/B-VII.1 CR-52
resonance total cross section

Energy (MeV)

Cross section (barns)

10^{-3} \quad 10^{-2}

10^{-1}

total
ENDF/B-VII.1 CR-52
resonance total cross section

Energy (MeV)

Cross section (barns)

total
ENDF/B-VII.1 CR-52
resonance total cross section

Energy (MeV)

Cross section (barns)
ENDF/B-VII.1 CR-52
resonance total cross section

Energy (MeV)

Cross section (barns)

total
ENDF/B-VII.1 CR-52
resonance absorption cross sections

![Graph showing resonance absorption cross sections. The y-axis represents cross section (barns) on a logarithmic scale, ranging from $10^{-3}$ to $10^1$. The x-axis represents energy (MeV) on a logarithmic scale, ranging from $10^{-3}$ to $10^{-2}$. There is a sharp peak at low energies indicating a resonance effect, followed by a gradual decrease.]
ENDF/B-VII.1 CR-52
resonance absorption cross sections

![Graph showing resonance absorption cross sections with Energy (MeV) on the x-axis and Cross section (barns) on the y-axis.]
ENDF/B-VII.1 CR-52
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
ENDF/B-VII.1 CR-52
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

Capture
ENDF/B-VII.1 CR-52

Damage

![Graph showing energy (MeV) vs. damage (MeV-barns). The graph is on a log-log scale, with energy on the x-axis and damage on the y-axis. There is a line labeled "damage" indicating a decrease in damage as energy increases.]
ENDF/B-VII.1 CR-52
Non-threshold reactions

Energy (MeV)

Cross section (barns)

(n,gma)
ENDF/B-VII.1 CR-52
Principal cross sections

Energy (MeV)

Cross section (barns)

- total
- absorption
- elastic
- gamma production

Energy (MeV)
ENDF/B-VII.1 CR-52 Damage

Energy (MeV) vs. Damage (MeV-barns) graph.
ENDF/B-VII.1 CR-52
Non-threshold reactions

Cross section (barns)

Energy (MeV)

(n,gma)
ENDF/B-VII.1 CR-52
Inelastic levels

Energy (MeV)

Cross section (barns)

(n,n^*6)
(n,n^*7)
(n,n^*8)
(n,n^*9)
(n,n^*10)

Energy (MeV)
ENDF/B-VII.1 CR-52
Threshold reactions

Energy (MeV)

Cross section (barns)

(n,xp)
(n,xd)
(n,xt)
(n,xa)
ENDF/B-VII.1 CR-52
angular distribution for elastic
ENDF/B-VII.1 CR-52
angular distribution for elastic
ENDF/B-VII.1 CR-52
angular distribution for (n,n*1)
ENDF/B-VII.1 CR-52
angular distribution for (n,n*2)
ENDF/B-VII.1 CR-52
angular distribution for (n,n*4)
ENDF/B-VII.1 CR-52
angular distribution for (n,n*5)
ENDF/B-VII.1 CR-52
angular distribution for (n,n*6)
ENDF/B-VII.1 CR-52
angular distribution for (n,n*7)
ENDF/B-VII.1 CR-52
Neutron emission for (n,x)
ENDF/B-VII.1 CR-52
Neutron emission for (n,2n)
ENDF/B-VII.1 CR-52
Neutron emission for \((n,n^*)a\)
ENDF/B-VII.1 CR-52
Neutron emission for \((n,n^\ast)p\)
ENDF/B-VII.1 CR-52
Neutron emission for (n,n*c)
ENDF/B-VII.1 CR-52
Photon emission for (n,gma)
ENDF/B-VII.1 CR-52
Photon emission for (n,x)
ENDF/B-VII.1 CR-52
Photon emission for (n,2n)
ENDF/B-VII.1 CR-52
 Photon emission for (n,n*)a
ENDF/B-VII.1 CR-52
Photon emission for (n,n*)p
ENDF/B-VII.1 CR-52
Photon emission for (n,n*c)
ENDF/B-VII.1 CR-52
Photon emission for (n,p)
ENDF/B-VII.1 CR-52
Photon emission for (n,a)
ENDF/B-VII.1 CR-52
thermal capture photon spectrum

Gamma Energy (MeV)

Gamma Prod (barns/MeV)
ENDF/B-VII.1 CR-52
14 MeV photon spectrum

Gamma Prod (barns/MeV) vs. Gamma Energy (MeV)
ENDF/B-VII.1 CR-52
Particle heating contributions

MeV/collision vs. Energy (MeV)

- Black line: protons
- Red line: deuterons
- Green line: tritons
- Blue line: alphas
ENDF/B-VII.1 CR-52
protons from (n,x)
ENDF/B-VII.1 CR-52
protons from (n,n*)p
ENDF/B-VII.1 CR-52
protons from (n,p)
ENDF/B-VII.1 CR-52
tritons from (n,x)
ENDF/B-VII.1 CR-52
alphas from (n,n*)a
ENDF/B-VII.1 CR-52
alphas from (n,a)