ENDF/B-VI MN-55H
Principal cross sections

Energy (MeV)

Cross section (barns)

- total
- absorption
- elastic
- gamma production
ENDF/B-VI MN-55H
resonance total cross section
ENDF/B-VI MN-55H
resonance total cross section

![Graph showing the total cross section as a function of energy. The x-axis represents energy in MeV, ranging from $10^{-3}$ to $10^{-2}$, and the y-axis represents cross section in barns, ranging from $10^1$ to $10^3$. The graph displays several peaks and dips indicative of resonance behavior.]
ENDF/B-VI MN-55H resonance absorption cross sections

Energy (MeV) vs. Cross section (barns)

Capture cross section

Energy (MeV)

Cross section (barns)
ENDF/B-VI MN-55H
resonance absorption cross sections

- Energy (MeV)
- Cross section (barns)
ENDF/B-VI MN-55H
resonance absorption cross sections

Cross section (barns) vs. Energy (MeV)

Capture peak indicated.
ENDF/B-VI MN-55H
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture
ENDF/B-VI MN-55H
resonance absorption cross sections

![Graph showing resonance absorption cross sections in barns vs. energy (MeV). The cross section decreases as energy increases.]
ENDF/B-VI MN-55H
Non-threshold reactions

Cross section (barns)

Energy (MeV)
ENDF/B-VI MN-55H
Principal cross sections

![Graph showing principal cross sections vs energy (MeV). The graph includes lines for total, absorption, elastic, and gamma production cross sections.]
ENDF/B-VI MN-55H
Heating

Heating (MeV/reaction) vs. Energy (MeV)
ENDF/B-VI MN-55H
Inelastic levels

Energy (MeV)

Cross section (barns)

(n,n*6)
(n,n*7)
(n,n*8)
(n,n*9)
(n,n*10)
ENDF/B-VI MN-55H
Threshold reactions

Energy (MeV)

Cross section (barns)

- (n,2n)
- (n,n*)a
- (n,n*)p
- (n,n*c)
- (n,p)
ENDF/B-VI MN-55H
Threshold reactions

Cross section (barns) vs. Energy (MeV)

- (n,xp)
- (n,xd)
- (n,xt)
- (n,xhe3)
- (n,xa)
ENDF/B-VI MN-55H
angular distribution for elastic
ENDF/B-VI MN-55H
angular distribution for (n,n*1)
ENDF/B-VI MN-55H
angular distribution for (n,n*3)
ENDF/B-VI MN-55H
angular distribution for (n,n*4)
ENDF/B-VI MN-55H
angular distribution for (n,n*5)
ENDF/B-VI MN-55H
angular distribution for (n,n*6)
ENDF/B-VI MN-55H
angular distribution for (n,n*7)
ENDF/B-VI MN-55H
angular distribution for (n,n*8)
ENDF/B-VI MN-55H
angular distribution for (n,n*9)
ENDF/B-VI MN-55H
angular distribution for (n,n*10)
ENDF/B-VI MN-55H
angular distribution for (n,n*11)
ENDF/B-VI MN-55H
angular distribution for \((n,n^{*12})\)
ENDF/B-VI MN-55H
angular distribution for (n,n*13)
ENDF/B-VI MN-55H
angular distribution for (n,n*14)
ENDF/B-VI MN-55H
angular distribution for (n,n*15)
ENDF/B-VI MN-55H
angular distribution for (n,n*16)
ENDF/B-VI MN-55H
angular distribution for (n,n*17)
ENDF/B-VI MN-55H
angular distribution for \((n,n^*18)\)
ENDF/B-VI MN-55H
angular distribution for \((n,n^*19)\)
ENDF/B-VI MN-55H
angular distribution for (n,n*20)
ENDF/B-VI MN-55H
angular distribution for (n,n*22)
ENDF/B-VI MN-55H
angular distribution for (n,n*23)
ENDF/B-VI MN-55H
angular distribution for (n,n*24)
ENDF/B-VI MN-55H
angular distribution for (n,n*25)
ENDF/B-VI MN-55H
angular distribution for \((n,n^*26)\)
ENDF/B-VI MN-55H
angular distribution for (n,n*27)
ENDF/B-VI MN-55H
angular distribution for (n,n*28)
ENDF/B-VI MN-55H
angular distribution for (n,n*29)
ENDF/B-VI MN-55H
Neutron emission for (n,2n)
ENDF/B-VI MN-55H
Neutron emission for \((n,n^*)a\)
ENDF/B-VI MN-55H
Neutron emission for \((n,n^\ast)p\)
ENDF/B-VI MN-55H
Neutron emission for (n,n*c)
ENDF/B-VI MN-55H
Photon emission for (n,gma)
ENDF/B-VI MN-55H
Photon emission for (n,2n)
ENDF/B-VI MN-55H
Photon emission for (n,n*)p
ENDF/B-VI MN-55H
Photon emission for (n,n^c)

Prob[MeV]

$10^{-1}$

$10^{0}$

$10^{1}$

$E_\gamma$(MeV)

$0$

$10$

$20$

$E_n$(MeV)

$2$

$4$

$6$

$8$

$10$

$12$

$14$

$16$

$18$

$20$
ENDF/B-VI MN-55H
Photon emission for (n,p)
ENDF/B-VI MN-55H
Photon emission for (n,a)
ENDF/B-VI MN-55H
14 MeV photon spectrum
ENDF/B-VI MN-55H
Particle heating contributions

Energy (MeV)

MeV/collision

protons
alphas

Energy (MeV)
ENDF/B-VI MN-55H
Recoil Heating

Energy (MeV)

Heating (MeV/reaction)

recoil heating

Energy (MeV)
ENDF/B-VI MN-55H
protons from \((n,n^*)p\)
ENDF/B-VI MN-55H
alphas from (n,n*)a
ENDF/B-VI MN-55H
alphas from (n,a)