ENDF/B-VII.1 ND-145
resonance total cross section

Energy (MeV)

Cross section (barns)

10^{-6} 10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3}

total
ENDF/B-VII.1 ND-145
resonance total cross section

Energy (MeV)

Cross section (barns)

- total
ENDF/B-VII.1 ND-145
resonance total cross section

Energy (MeV) vs. Cross section (barns)
ENDF/B-VII.1 ND-145
resonance total cross section

Energy (MeV)

Cross section (barns)
ENDF/B-VII.1 ND-145
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture
ENDF/B-VII.1 ND-145
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
ENDF/B-VII.1 ND-145
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

Capture
ENDF/B-VII.1 ND-145
UR total cross section

Energy (MeV)

Cross section (barns)

Inf. Dil.
100 b
1 b
ENDF/B-VII.1 ND-145
UR elastic cross section

Cross section (barns) vs Energy (MeV)

- Inf. Dil.
- 100 b
- 1 b
ENDF/B-VII.1 ND-145
Heating

---

Energy (MeV)

Heating (MeV/reaction)

---

heating

---

10^{-11} 10^{-10} 10^{-9} 10^{-8} 10^{-7} 10^{-6} 10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1

10^{-7} 10^{-6} 10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1
ENDF/B-VII.1 ND-145
Non-threshold reactions

Energy (MeV) vs. Cross section (barns) graph:
- (n,gma)
- (n,a)
- (n,xa)
ENDF/B-VII.1 ND-145
Principal cross sections

Energy (MeV)

Cross section (barns)

- total
- absorption
- elastic
- gamma production
ENDF/B-VII.1 ND-145
Inelastic levels

Energy (MeV)

Cross section (barns)

*(n,n*16)
*(n,n*17)
*(n,n*18)
*(n,n*19)
*(n,n*20)
ENDF/B-VII.1 ND-145
Inelastic levels

Energy (MeV)

Cross section (barns)

Energy (MeV)
ENDF/B-VII.1 ND-145
Threshold reactions

Energy (MeV)

Cross section (barns)

- (n,2n)
- (n,3n)
- (n,n*)a
- (n,2n)a
- (n,n*)p

Energy (MeV)

4 6 8 10 12 14 16 18 20

0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8
ENDF/B-VII.1 ND-145
Threshold reactions

Energy (MeV)

Cross section (barns)

(n,p*1)
(n,p*2)
(n,p*3)
(n,p*4)
(n,p*5)
ENDF/B-VII.1 ND-145
Threshold reactions

Cross section (barns) vs. Energy (MeV)

- (n,p*11)
- (n,p*12)
- (n,p*13)
- (n,p*14)
- (n,p*c)
ENDF/B-VII.1 ND-145
angular distribution for elastic
ENDF/B-VII.1 ND-145
angular distribution for (n,n*1)
ENDF/B-VII.1 ND-145
angular distribution for (n,n*2)
ENDF/B-VII.1 ND-145
angular distribution for (n,n*3)
ENDF/B-VII.1 ND-145
angular distribution for \( (n,n^*5) \)
ENDF/B-VII.1 ND-145
angular distribution for (n, n*6)
ENDF/B-VII.1 ND-145
angular distribution for (n,n*7)
ENDF/B-VII.1 ND-145
angular distribution for (n,n*8)
ENDF/B-VII.1 ND-145
angular distribution for \(n,n^*9\)
ENDF/B-VII.1 ND-145
angular distribution for (n,n*10)
ENDF/B-VII.1 ND-145
angular distribution for (n,n*11)
ENDF/B-VII.1 ND-145
angular distribution for (n,n*12)
ENDF/B-VII.1 ND-145
angular distribution for (n,n*13)
ENDF/B-VII.1 ND-145
angular distribution for (n,n*14)
ENDF/B-VII.1 ND-145
angular distribution for (n,n*15)
ENDF/B-VII.1 ND-145 angular distribution for \((n,n'*16)\)
ENDF/B-VII.1 ND-145
angular distribution for (n,n*17)
ENDF/B-VII.1 ND-145
angular distribution for (n,n*18)
ENDF/B-VII.1 ND-145
angular distribution for (n,n*19)
ENDF/B-VII.1 ND-145
angular distribution for (n,n*20)
ENDF/B-VII.1 ND-145
angular distribution for (n,n*21)
ENDF/B-VII.1 ND-145
angular distribution for (n,n*22)
ENDF/B-VII.1 ND-145
angular distribution for (n,n*23)
ENDF/B-VII.1 ND-145
angular distribution for (n,n*24)
ENDF/B-VII.1 ND-145
angular distribution for (n,n^*25)
ENDF/B-VII.1 ND-145
Neutron emission for (n,2n)
ENDF/B-VII.1 ND-145
Neutron emission for (n,3n)
ENDF/B-VII.1 ND-145
Neutron emission for \((n,n^\ast)\)a
ENDF/B-VII.1 ND-145
Neutron emission for (n,2n)a
ENDF/B-VII.1 ND-145
Neutron emission for \((n,n^*)p\)
ENDF/B-VII.1 ND-145
Neutron emission for (n,2np)
ENDF/B-VII.1 ND-145
Neutron emission for (n,n*c)
ENDF/B-VII.1 ND-145
Photon emission for (n,2n)
ENDF/B-VII.1 ND-145
Photon emission for (n,3n)
ENDF/B-VII.1 ND-145
Photon emission for (n,n*)a
ENDF/B-VII.1 ND-145
Photon emission for (n,2n)a
ENDF/B-VII.1 ND-145
Photon emission for \((n,n^*)p\)
ENDF/B-VII.1 ND-145
Photon emission for (n,2np)
ENDF/B-VII.1 ND-145
Photon emission for (n,n*c)
ENDF/B-VII.1 ND-145
Photon emission for (n,gma)
ENDF/B-VII.1 ND-145
Photon emission for (n,p*c)
ENDF/B-VII.1 ND-145
thermal capture photon spectrum

Gamma Energy (MeV)

Gamma Prod (barns/MeV)
ENDF/B-VII.1 ND-145
14 MeV photon spectrum

Gamma Energy (MeV)

Gamma Prod (barns/MeV)
ENDF/B-VII.1 ND-145
Particle heating contributions

Energy (MeV)

*10^{-3}

MeV/collision

protons

alphas

Energy (MeV)
ENDF/B-VII.1 ND-145
Recoil Heating

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

- The graph shows the recoil heating as a function of energy.
- The heating is plotted on the y-axis, which is labeled 'Heating (MeV/reaction),' and the energy on the x-axis, labeled 'Energy (MeV).'
- The data points indicate significant fluctuations in heating across different energy levels.

*10^{-3}
ENDF/B-VII.1 ND-145
Particle production cross sections

Energy (MeV)

Cross section (barns)

protons

alphas

Energy (MeV)
ENDF/B-VII.1 ND-145
protons from (n,2np)
ENDF/B-VII.1 ND-145 angular distribution for (n,p\*0) proton
ENDF/B-VII.1 ND-145
angular distribution for (n,p*1) proton
ENDF/B-VII.1 ND-145
angular distribution for (n,p*2) proton
ENDF/B-VII.1 ND-145
angular distribution for (n,p*3) proton
ENDF/B-VII.1 ND-145
angular distribution for (n,p*4) proton
ENDF/B-VII.1 ND-145
angular distribution for (n,p*5) proton
ENDF/B-VII.1 ND-145
angular distribution for (n,p*6) proton
ENDF/B-VII.1 ND-145
angular distribution for (n,p*7) proton
ENDF/B-VII.1 ND-145
angular distribution for (n,p*8) proton
ENDF/B-VII.1 ND-145
angular distribution for (n,p*9) proton
ENDF/B-VII.1 ND-145
angular distribution for (n,p*10) proton
ENDF/B-VII.1 ND-145
angular distribution for (n,p*11) proton
ENDF/B-VII.1 ND-145
angular distribution for (n,p*12) proton
ENDF/B-VII.1 ND-145 angular distribution for (n,p*13) proton
ENDF/B-VII.1 ND-145
angular distribution for (n,p*14) proton
ENDF/B-VII.1 ND-145
protons from (n,p*c)
ENDF/B-VII.1 ND-145
alphas from (n,n*)a
ENDF/B-VII.1 ND-145
alphas from (n,2n)a