ENDF/B-VII GD-155
Principal cross sections

Cross section (barns)

Energy (MeV)

- total
- absorption
- elastic
- gamma production
ENDF/B-VII GD-155
resonance total cross section

![Graph showing the relationship between energy (MeV) and cross section (barns). The x-axis represents energy in MeV ranging from $10^{-7}$ to $10^{-6}$, and the y-axis represents cross section in barns ranging from $10^4$ to $10^0$. The graph includes a line labeled "total" depicting the decrease in cross section with increasing energy.](chart.png)
ENDF/B-VII GD-155
resonance total cross section

Energy (MeV)

Cross section (barns)
ENDF/B-VII GD-155
resonance total cross section

Energy (MeV)

Cross section (barns)
ENDF/B-VII GD-155
resonance total cross section

Energy (MeV)

Cross section (barns)
ENDF/B-VII GD-155
resonance absorption cross sections

Energy (MeV)

Cross section (barns)
ENDF/B-VII GD-155
resonance absorption cross sections

Energy (MeV) vs. Cross section (barns)

- Capture curve
ENDF/B-VII GD-155
UR total cross section

Cross section (barns)

Energy (MeV)
ENDF/B-VII GD-155
UR elastic cross section

Cross section (barns)

Energy (MeV)
ENDF/B-VII GD-155
UR capture cross section

Energy (MeV) vs Cross section (barns) graph
ENDF/B-VII GD-155
Heating
ENDF/B-VII GD-155
Principal cross sections

Energy (MeV)

Cross section (barns)

total
absorption
elastic
gamma production
ENDF/B-VII GD-155
Non-threshold reactions

Energy (MeV)

Cross section (barns)

- (n,gma)
- (n,a)
- (n,xa)
ENDF/B-VII GD-155
Inelastic levels

Cross section (barns)

Energy (MeV)
ENDF/B-VII GD-155
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 GD-155
Inelastic levels

Cross section (barns)

Energy (MeV)

(n,n*26)
(n,n*27)
(n,n*28)
(n,n*29)
(n,n*30)
ENDF/B-VII GD-155
Inelastic levels

Energy (MeV)

Cross section (barns)

(n,n*36) (n,n*37) (n,n*38)
ENDF/B-VII GD-155
Threshold reactions

Energy (MeV)

Cross section (barns)

(n,p*6)
(n,p*7)
(n,p*8)
(n,p*9)
(n,p*10)
ENDF/B-VII GD-155 angular distribution for elastic
ENDF/B-VII GD-155
angular distribution for (n,n*1)
ENFD/B-VII GD-155 angular distribution for (n,n^2)
ENDF/B-VII GD-155
angular distribution for (n,n*3)
ENDF/B-VII GD-155
angular distribution for (n,n*4)
ENDF/B-VII GD-155
angular distribution for (n,n*5)
ENDF/B-VII GD-155
angular distribution for (n,n*6)
ENDF/B-VII GD-155
angular distribution for (n,n*)
ENDF/B-VII GD-155

angular distribution for (n,n*8)
ENDF/B-VII GD-155
angular distribution for (n,n*9)
ENDF/B-VII GD-155
angular distribution for (n,n*10)
ENDF/B-VII GD-155
angular distribution for (n,n*11)
ENDF/B-VII GD-155
angular distribution for (n,n*12)
ENDF/B-VII GD-155
angular distribution for (n,n^*13)
ENDF/B-VII GD-155
angular distribution for (n,n*14)
ENDF/B-VII GD-155
angular distribution for (n,n*15)
ENDF/B-VII GD-155
angular distribution for (n,n*16)
ENDF/B-VII GD-155 angular distribution for (n,n*17)
ENDF/B-VII GD-155
angular distribution for (n,n*18)
ENDF/B-VII GD-155
angular distribution for (n,n*19)

Energy (MeV)

P,ro/C,os

Prob/Cos

1.0

1.0 0.5 0.0 -0.5 -1.0

0.0

R

0

4

6

10

12

14

16

18

20
ENDF/B-VII GD-155
angular distribution for (n,n*20)
ENDF/B-VII GD-155 angular distribution for (n,n*21)
ENDF/B-VII GD-155
angular distribution for (n,n*22)
ENDF/B-VII GD-155
angular distribution for (n,n*23)
ENGF/B-VII GD-155
angular distribution for (n,n*24)

Energy (MeV)

Prob/Cos

Cosine
ENDF/B-VII GD-155
angular distribution for (n,n*25)
ENDF/B-VII GD-155 angular distribution for \((n,n^{\ast}26)\)
ENDF/B-VII GD-155
angular distribution for (n,n*27)
ENDF/B-VII GD-155
angular distribution for (n,n*28)
angular distribution for (n,n^*)

Prob/Cos

Energy (MeV)

0.2 0.1 0.0 0.5 -1.0

Cosine
ENDF/B-VII GD-155
angular distribution for (n,n*30)
ENDF/B-VII GD-155
angular distribution for (n,n*31)
ENDF/B-VII GD-155
angular distribution for (n,n*32)
ENDF/B-VII GD-155
angular distribution for (n,n*33)
ENDF/B-VII GD-155
angular distribution for (n,n*34)
ENDF/B-VII GD-155
angular distribution for (n,n*35)
ENDF/B-VII GD-155
angular distribution for \((n,n^{*36})\)
ENDF/B-VII GD-155
angular distribution for (n,n*37)
ENDF/B-VII GD-155
angular distribution for (n,n*38)
ENDF/B-VII GD-155
Neutron emission for (n,2n)
ENDF/B-VII GD-155
Neutron emission for (n,3n)
ENDF/B-VII GD-155
Neutron emission for (n,n*)a
ENDF/B-VII GD-155
Neutron emission for (n,2n)a
ENDF/B-VII GD-155
Neutron emission for (n,2np)
ENDF/B-VII GD-155
Neutron emission for \((n,n^c)\)
ENDF/B-VII GD-155
Photon emission for (n,3n)
ENDF/B-VII GD-155
Photon emission for \((n,n^*)a\)
ENDF/B-VII GD-155
Photon emission for \((n,n^*)p\)
ENDF/B-VII GD-155
Photon emission for (n,n*c)
ENDF/B-VII GD-155
Photon emission for (n,gma)
ENDF/B-VII GD-155
Photon emission for (n,p* c)
ENDF/B-VII GD-155
thermal capture photon spectrum

Gamma Energy (MeV)

Gamma Prod (barns/MeV)
ENDF/B-VII GD-155
14 MeV photon spectrum

Gamma Energy (MeV)

Gamma Prod (barns/MeV)
ENDF/B-VII GD-155
Particle production cross sections

Energy (MeV)

Cross section (barns)

- protons
- alphas
ENDF/B-VII GD-155
protons from \((n,n^*)p\)
ENDF/B-VII GD-155 protons from \( (n,2np) \)
ENDF/B-VII GD-155
angular distribution for \((n,p^*0)\) proton
ENDF/B-VII GD-155
angular distribution for (n,p^1) proton
ENDF/B-VII GD-155
angular distribution for (n,p*2) proton
ENDF/B-VII GD-155
angular distribution for (n,p*3) proton
ENDF/B-VII GD-155
angular distribution for (n,p*5) proton
ENDF/B-VII GD-155
angular distribution for (n,p*6) proton
ENDF/B-VII GD-155
angular distribution for (n,p*7) proton
ENDF/B-VII GD-155
angular distribution for (n,p*8) proton
angular distribution for (n,p*9) proton
ENDF/B-VII GD-155
angular distribution for (n,p*10) proton

Energy (MeV)
Cosine
Prob/Cos

1.0 0.5 0.0 -0.5 -1.0

10 10-1 10-2 10-3 10-4 10-5
ENDF/B-VII GD-155
angular distribution for (n,p^11) proton
ENDF/B-VII GD-155
protons from (n,p*c)
ENDF/B-VII GD-155 alphas from (n,n*)a
ENDF/B-VII GD-155
alphas from (n,2n)a