ENDF/B-VII.1 GD-153
resonance total cross section

Energy (MeV)

Cross section (barns)

total
ENDF/B-VII.1 GD-153
resonance total cross section

Graph showing the resonance total cross section as a function of energy (MeV). The y-axis represents the cross section in barns, and the x-axis represents the energy (MeV). The graph includes a peak at a specific energy level, indicating a resonance effect.
ENDF/B-VII.1 GD-153
resonance total cross section

Energy (MeV)

Cross section (barns)

- Total
ENDF/B-VII.1 GD-153
resonance total cross section

Energy (MeV)

Cross section (barns)

total
ENDF/B-VII.1 GD-153
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
ENDF/B-VII.1 GD-153

resonance absorption cross sections

Energy (MeV)

Cross section (barns)
ENDF/B-VII.1 GD-153
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
ENDF/B-VII.1 GD-153
resonance absorption cross sections

Energy (MeV)

Cross section (barns)
ENDF/B-VII.1 GD-153
UR elastic cross section

Cross section (barns)

Energy (MeV)
ENDF/B-VII.1 GD-153
UR capture cross section

Energy (MeV)

Cross section (barns)

Inf. Dil.
100 b
1 b

10^{-4} 10^{-3} 10^{-2}
ENDF/B-VII.1 GD-153 Heating

Heating (MeV/reaction) vs. Energy (MeV)
ENDF/B-VII.1 GD-153
Non-threshold reactions

Energy (MeV)

Cross section (barns)

(n,gma) (n,a) (n,xa)
Principal cross sections

- Total
- Absorption
- Elastic
- Gamma production

Energy (MeV) vs. Cross section (barns)
ENDF/B-VII.1 GD-153 Damage

Damage (MeV-barns) vs. Energy (MeV)
ENDF/B-VII.1 GD-153
Inelastic levels

Energy (MeV) vs. Cross section (barns)

- (n,n*1)
- (n,n*2)
- (n,n*3)
- (n,n*4)
- (n,n*5)
ENDF/B-VII.1 GD-153
Inelastic levels

Energy (MeV)

Cross section (barns)

(n,n*11)
(n,n*12)
(n,n*13)
(n,n*14)
(n,n*15)

Energy (MeV)
ENDF/B-VII.1 GD-153
Inelastic levels

Energy (MeV)

Cross section (barns)

*10^-3

(n,n*16)
(n,n*17)
(n,n*18)
(n,n*19)
(n,n*20)

Energy (MeV)
ENDF/B-VII.1 GD-153
Inelastic levels

Energy (MeV)

Cross section (barns)

(n,n*21)  
(n,n*22)  
(n,n*23)  
(n,n*24)  
(n,n*25)  

Energy (MeV)
ENDF/B-VII.1 GD-153
Inelastic levels

Cross section (barns) vs. Energy (MeV)

- (n,n*31)
- (n,n*32)
- (n,n*33)
- (n,n*34)
- (n,n*35)
ENDF/B-VII.1 GD-153
Threshold reactions

Cross section (barns)

Energy (MeV)

[(n,2n)]
[(n,3n)]
[(n,n*)a]
[(n,2n)a]
[(n,n*)p]
Threshold reactions

Cross section (barns) vs. Energy (MeV)

- (n,2np)
- (n,n*c)
- (n,p)
- (n,xp)
- (n,p*0)
ENDF/B-VII.1 GD-153
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 GD-153
Threshold reactions

Cross section (barns)

Energy (MeV)
ENDF/B-VII.1 GD-153
angular distribution for elastic
ENDF/B-VII.1 GD-153
angular distribution for (n,n*1)
ENDF/B-VII.1 GD-153
angular distribution for \((n,n^{*2})\)
ENDF/B-VII.1 GD-153
angular distribution for (n,n*3)
ENDF/B-VII.1 GD-153
angular distribution for (n,n*4)
ENDF/B-VII.1 GD-153
angular distribution for (n,n*5)
ENDF/B-VII.1 GD-153
angular distribution for \((n,n^*6)\)
ENDF/B-VII.1 GD-153
angular distribution for (n,n*7)
ENDF/B-VII.1 GD-153
angular distribution for (n,n*8)
ENDF/B-VII.1 GD-153
angular distribution for (n,n*9)
ENDF/B-VII.1 GD-153
angular distribution for (n,n*10)
ENDF/B-VII.1 GD-153
angular distribution for (n,n*11)
ENDF/B-VII.1 GD-153
angular distribution for (n,n*12)
ENDF/B-VII.1 GD-153
angular distribution for (n,n*13)
ENDF/B-VII.1 GD-153
angular distribution for (n,n*14)
ENDF/B-VII.1 GD-153 angular distribution for \((n,n^{*}15)\)
ENDF/B-VII.1 GD-153
angular distribution for (n,n*16)
ENDF/B-VII.1 GD-153
angular distribution for \((n,n^*17)\)
ENDF/B-VII.1 GD-153
angular distribution for (n,n^*18)
ENDF/B-VII.1 GD-153
angular distribution for (n,n*19)
ENDF/B-VII.1 GD-153
angular distribution for (n,n*20)
ENDF/B-VII.1 GD-153
angular distribution for (n,n*21)
ENDF/B-VII.1 GD-153
angular distribution for (n,n*22)
ENDF/B-VII.1 GD-153
angular distribution for (n,n*23)
ENDF/B-VII.1 GD-153
angular distribution for (n,n*24)
ENDF/B-VII.1 GD-153
angular distribution for (n,n^{*}25)
ENDF/B-VII.1 GD-153
angular distribution for (n,n*26)
ENDF/B-VII.1 GD-153
angular distribution for (n,n*27)
ENDF/B-VII.1 GD-153
angular distribution for (n,n\*28)
ENDF/B-VII.1 GD-153
angular distribution for (n,n*29)
ENDF/B-VII.1 GD-153
angular distribution for (n,n*30)
ENDF/B-VII.1 GD-153
angular distribution for (n,n*31)
ENDF/B-VII.1 GD-153
angular distribution for \((n,n^*32)\)
ENDF/B-VII.1 GD-153
angular distribution for (n,n*33)
ENDF/B-VII.1 GD-153
angular distribution for (n,n\*34)
ENDF/B-VII.1 GD-153
angular distribution for (n,n*35)
ENDF/B-VII.1 GD-153
angular distribution for \( (n,n^{*}36) \)
ENDF/B-VII.1 GD-153
angular distribution for (n,n*37)
ENDF/B-VII.1 GD-153
angular distribution for (n,n*38)
ENDF/B-VII.1 GD-153
angular distribution for (n,n*39)
ENDF/B-VII.1 GD-153
Neutron emission for (n,2n)
ENDF/B-VII.1 GD-153
Neutron emission for (n,3n)
ENDF/B-VII.1 GD-153
Neutron emission for (n,n*)a
ENDF/B-VII.1 GD-153
Neutron emission for (n,2n)a
ENDF/B-VII.1 GD-153
Neutron emission for (n,n*)p
ENDF/B-VII.1 GD-153
Neutron emission for (n,2np)
ENDF/B-VII.1 GD-153
Neutron emission for \((n,n^*c)\)
ENDF/B-VII.1 GD-153
Photon emission for (n,2n)
ENDF/B-VII.1 GD-153
Photon emission for (n, 3n)
ENDF/B-VII.1 GD-153
Photon emission for (n,n*)a
ENDF/B-VII.1 GD-153
Photon emission for (n,2n)a
ENDF/B-VII.1 GD-153
Photon emission for (n,n*)p
ENDF/B-VII.1 GD-153
Photon emission for (n,2np)
ENDF/B-VII.1 GD-153
Photon emission for (n,n*c)
ENDF/B-VII.1 GD-153
Photon emission for (n,gma)
ENDF/B-VII.1 GD-153
Photon emission for \((n,p^*c)\)
ENDF/B-VII.1 GD-153
thermal capture photon spectrum
ENDF/B-VII.1 GD-153
14 MeV photon spectrum
ENDF/B-VII.1 GD-153
Particle production cross sections

Energy (MeV) vs. Cross section (barns)

- Protons
- Alpha particles
ENDF/B-VII.1 GD-153
protons from \((n,n^*)p\)
ENDF/B-VII.1 GD-153
protons from (n,2np)
ENDF/B-VII.1 GD-153
angular distribution for (n,p*0) proton

Energy (MeV)

Cosine

Prob/Cos

10^-1

10^0

10^1
ENDF/B-VII.1 GD-153
general angular distribution for \((n,p^1)\) proton

Prob/Cos

10.0 10.1 10.0

1.0 0.5 0.0 -0.5 -1.0 0

5 10 15 20

Energy (MeV)
ENDF/B-VII.1 GD-153
angular distribution for (n,p*2) proton
ENDF/B-VII.1 GD-153
angular distribution for (n,p*3) proton
ENDF/B-VII.1 GD-153
angular distribution for (n,p*4) proton
ENDF/B-VII.1 GD-153
angular distribution for (n,p*5) proton
ENDF/B-VII.1 GD-153 angular distribution for (n,p*6) proton
ENDF/B-VII.1 GD-153
protons from (n,p*c)
ENDF/B-VII.1 GD-153
alphas from \((n,n^*)a\)
ENDF/B-VII.1 GD-153
alphas from (n,2n)a