ENDF/B-VII SM-147
resonance total cross section

Cross section (barns)

Energy (MeV)
ENDF/B-VII SM-147
resonance total cross section

Cross section (barns)

Energy (MeV)
ENDF/B-VII SM-147
resonance total cross section

Cross section (barns)

Energy (MeV)
ENDF/B-VII SM-147
resonance absorption cross sections

Cross section (barns)

Energy (MeV)

Capture
ENDF/B-VII SM-147
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture
ENDF/B-VII SM-147
resonance absorption cross sections

![Graph showing resonance absorption cross sections](image-url)
ENDF/B-VII SM-147
resonance absorption cross sections

Capture
ENDF/B-VII SM-147
UR total cross section

Energy (MeV)

Cross section (barns)

Inf. Dil.

100 b
ENDF/B-VII SM-147
UR elastic cross section

Energy (MeV) vs. Cross section (barns)

- Inf. Dil.
- 100 b
ENDF/B-VII SM-147
UR capture cross section

Cross section (barns)

Energy (MeV)
ENDF/B-VII SM-147
Heating

Energy (MeV)

Heating (MeV/reaction)

heating
ENDF/B-VII SM-147
Principal cross sections

Cross section (barns)

Energy (MeV)
ENDF/B-VII SM-147
Non-threshold reactions

Cross section (barns)

Energy (MeV)
ENDF/B-VII SM-147
Inelastic levels

Cross section (barns)

Energy (MeV)

(n,n*31)
(n,n*32)
(n,n*33)
(n,n*34)
(n,n*35)
ENDF/B-VII SM-147
Threshold reactions

Cross section (barns) vs. Energy (MeV)

- (n,2np)
- (n,n^c)
- (n,p)
- (n,xp)
- (n,p^0)
ENDF/B-VII SM-147
angular distribution for elastic
ENDF/B-VII SM-147
angular distribution for (n,n*1)
ENDF/B-VII SM-147
angular distribution for (n,n*3)
ENDF/B-VII SM-147
angular distribution for (n,n*4)
ENDF/B-VII SM-147
angular distribution for \((n,n^*5)\)
ENDF/B-VII SM-147
angular distribution for (n,n*6)
ENDF/B-VII SM-147
angular distribution for (n,n^7)
angular distribution for (n,n*8)
ENDF/B-VII SM-147
angular distribution for \((n,n^*10)\)
ENDF/B-VII SM-147

angular distribution for (n,n*11)

Energy (MeV)

Cosine

Prob/Cos
ENDF/B-VII SM-147
angular distribution for (n,n*12)
ENDF/B-VII SM-147
angular distribution for (n,n*13)
ENDF/B-VII SM-147
angular distribution for (n,n*14)
angular distribution for (n,n*15)
ENDF/B-VII SM-147
angular distribution for (n,n*16)
ENDF/B-VII SM-147
angular distribution for (n,n*18)
ENDF/B-VII SM-147
angular distribution for \((n,n^*19)\)
ENDF/B-VII SM-147 angular distribution for (n,n*20)

Energy (MeV)
ENDF/B-VII SM-147
angular distribution for (n,n*21)
ENDF/B-VII SM-147
angular distribution for (n,n*22)
ENDF/B-VII SM-147
angular distribution for \((n,n^{*24})\)
ENDF/B-VII SM-147
angular distribution for (n,n*25)
ENDF/B-VII SM-147
angular distribution for \((n,n*26)\)
ENDF/B-VII SM-147
angular distribution for \((n,n^*29)\)
ENDF/B-VII SM-147
angular distribution for \((n,n^*30)\)
ENDF/B-VII SM-147
angular distribution for (n,n*31)
ENDF/B-VII SM-147
angular distribution for (n,n*32)

Probi/Cos

Energy (MeV)

Cosine
ENDF/B-VII SM-147
angular distribution for (n,n*33)
ENDF/B-VII SM-147
angular distribution for (n,n*34)
ENDF/B-VII SM-147
angular distribution for (n,n*35)
ENDF/B-VII SM-147
angular distribution for (n, n*36)
ENDF/B-VII SM-147
angular distribution for (n,n*37)
ENDF/B-VII SM-147
Neutron emission for (n,2n)
ENDF/B-VII SM-147
Neutron emission for \( (n,3n) \)
ENDF/B-VII SM-147
Neutron emission for (n,n*)a
ENDF/B-VII SM-147
Neutron emission for (n,2n)a
ENDF/B-VII SM-147
Neutron emission for \((n,n^*)p\)
ENDF/B-VII SM-147
Neutron emission for (n,2np)
ENDF/B-VII SM-147
Neutron emission for \((n,n^*c)\)
ENDF/B-VII SM-147
Photon emission for (n,2n)
ENDF/B-VII SM-147
Photon emission for (n,n*)a
ENDF/B-VII SM-147
Photon emission for (n,2n)a
ENDF/B-VII SM-147
Photon emission for (n,n*)p
ENDF/B-VII SM-147
Photon emission for (n,2np)
ENDF/B-VII SM-147
Photon emission for (n,n*c)
ENDF/B-VII SM-147
Photon emission for (n,gma)
ENDF/B-VII SM-147
Photon emission for (n,p*c)
ENDF/B-VII SM-147
thermal capture photon spectrum
ENDF/B-VII SM-147
14 MeV photon spectrum
ENDF/B-VII SM-147
Particle heating contributions

Energy (MeV)

MeV/collision

0
10
20
30
40
50
60
70
80
90
100
110
120

*10^-3

Energy (MeV)

protons

alphas
ENDF/B-VII SM-147
Particle production cross sections

Cross section (barns)

Energy (MeV)

*10^-3

protons

alphas
ENDF/B-VII SM-147
protons from \((n,n^*)p\)
ENDF/B-VII SM-147
protons from (n,2np)
ENDF/B-VII SM-147
angular distribution for (n,p*0) proton
ENDF/B-VII SM-147 angular distribution for (n,p*1) proton energy (MeV) vs. cosine and probability.
ENDF/B-VII SM-147

angular distribution for \((n,p^*2)\) proton
ENDF/B-VII SM-147
angular distribution for \((n,p^*3)\) proton

Energy (MeV)

Cosine

Prob/Cos

1.0 0.5 0.0 -0.5 -1.0

0

5

10

15

20
ENDF/B-VII SM-147
angular distribution for (n,p*4) proton
ENDF/B-VII SM-147

angular distribution for (n,p*) proton
ENDF/B-VII SM-147
angular distribution for (n,p*6) proton
ENDF/B-VII SM-147
angular distribution for (n,p*7) proton
ENDF/B-VII SM-147
angular distribution for (n,p*8) proton
ENDF/B-VII SM-147
angular distribution for (n,p*9) proton
ENDF/B-VII SM-147
angular distribution for (n,p*10) proton

Energy (MeV)
ENDF/B-VII SM-147
angular distribution for (n,p*11) proton
angular distribution for (n,p*12) proton
ENDF/B-VII SM-147
angular distribution for (n,p*13) proton
ENDF/B-VII SM-147 angular distribution for (n,p*14) proton
ENDF/B-VII SM-147
angular distribution for (n,p*15) proton

Energy (MeV)

P/Cos

Prob/Cos

Cosine

8 10 12 14 16 18 20
ENDF/B-VII SM-147 angular distribution for (n,p*16) proton
ENDF/B-VII SM-147
angular distribution for \((n,p^{*17})\) proton

Energy (MeV)

Cosine

Probl/Cos
angular distribution for (n,p*18) proton
ENDF/B-VII SM-147
protons from (n,p*c)
ENDF/B-VII SM-147
alphas from \((n,n^*)a\)
ENDF/B-VII SM-147
alphas from (n,2n)a