ENDF/B-VII AG-109
resonance total cross section

Cross section (barns) vs. Energy (MeV) for ENDF/B-VII AG-109.
ENDF/B-VII AG-109
resonance total cross section
ENDF/B-VII AG-109
resonance total cross section

![Graph showing resonance total cross section with energy (MeV) on the x-axis and cross section (barns) on the y-axis.](image-url)
ENDF/B-VII AG-109
resonance total cross section

Energy (MeV)

Cross section (barns)

10^{-3} - 10^{-2}

10^{-1} - 10^{1}

10^{2} - 10^{3}
ENDF/B-VII AG-109
resonance absorption cross sections

Energy (MeV)

Cross section (barns)
ENDF/B-VII AG-109 resonance absorption cross sections
ENDF/B-VII AG-109
UR elastic cross section

Energy (MeV) vs Cross section (barns)

- Inf. Dil.
- 100 b
ENDF/B-VII AG-109
UR capture cross section

Cross section (barns)

Energy (MeV)
ENDF/B-VII AG-109 Damage

Damage

Energy (MeV) vs. Damage (MeV-barns)

- Energy (MeV) ranges from $10^{-11}$ to $10^1$
- Damage (MeV-barns) ranges from $10^{-6}$ to $10^1$

The graph shows the damage as a function of energy, highlighting the energy range where damage is most pronounced.
ENDF/B-VII AG-109
Non-threshold reactions

Energy (MeV)

Cross section (barns)

$\text{(n,gma)}$
ENDF/B-VII AG-109
Non-threshold reactions

Energy (MeV)

Cross section (barns)

(n,gma)
Threshold reactions

Cross section (barns) vs. Energy (MeV)
ENDF/B-VII AG-109
Threshold reactions

Energy (MeV)

Cross section (barns)

(n,p*13)
(n,p*14)
(n,p*15)
(n,p*16)
(n,p*17)

2 4 6 8 10 12 14 16 18 20

0 1 2 3 4 5 6 7

2 4 6 8 10 12 14 16 18 20
ENDF/B-VII AG-109
Threshold reactions

Energy (MeV)

Cross section (barns)

\( (n,a^*1) \)
\( (n,a^*c) \)
angular distribution for elastic

ENDF/B-VII AG-109

Energy (MeV)

Cosine

Prob/Cos

10⁻¹ 10⁻⁰ 10⁰ 10¹ 10² 10³ 0.5 0.0 -0.5 -1.0
ENDF/B-VII AG-109
angular distribution for (n,n*1)
ENDF/B-VII AG-109
angular distribution for (n,n^*2)
ENDF/B-VII AG-109
angular distribution for (n,n*4)
angular distribution for (n,n*5)
ENDF/B-VII AG-109
angular distribution for (n,n*6)
ENDF/B-VII AG-109
angular distribution for (n,n\*8)

Energy (MeV)

Cosine

Prob/Cos

1.0 1.0 0.5 0.0 -0.5 -1.0

0

2

4

6

8

10 12 14 16 18 20
ENDF/B-VII AG-109

angular distribution for (n,n*9)

Energy (MeV)

Prob/Cos

Cosine

Prob/Cos

0.0 0.5 1.0

-0.5 -1.0
ENDF/B-VII AG-109
angular distribution for (n,n*10)
ENDF/B-VII AG-109
angular distribution for (n,n*11)
ENDF/B-VII AG-109
angular distribution for (n,n*12)
ENDF/B-VII AG-109
angular distribution for (n,n*13)
ENDF/B-VII AG-109
angular distribution for (n,n*14)
ENDF/B-VII AG-109 angular distribution for (n,n*15)

Energy (MeV):

Cosine

Prob/Cos

1.0 1.0 0.5 0.0 -0.5 -1.0
ENDF/B-VII AG-109
angular distribution for \((n,n^*16)\)
ENDF/B-VII AG-109
angular distribution for (n,n*17)
ENDF/B-VII AG-109
angular distribution for (n,n*18)
ENDF/B-VII AG-109
Neutron emission for (n,2n)
ENDF/B-VII AG-109
Neutron emission for (n,3n)
ENDF/B-VII AG-109
Neutron emission for (n,n*)a
ENDF/B-VII AG-109
Neutron emission for (n,2n)a
ENDF/B-VII AG-109
Neutron emission for (n,n*)p
ENDF/B-VII AG-109
Neutron emission for (n,2np)
ENDF/B-VII AG-109
Neutron emission for (n,n^c)
ENDF/B-VII AG-109
Photon emission for (n,2n)
ENDF/B-VII AG-109
Photon emission for (n,n*)a
Photon emission for \((n,n^*p)\)
ENDF/B-VII AG-109
Photon emission for (n,2np)
ENDF/B-VII AG-109
Photon emission for (n,n*c)
ENDF/B-VII AG-109
Photon emission for (n,gma)
Photon emission for \((n,a^*c)\)
ENDF/B-VII AG-109
thermal capture photon spectrum

![Gamma Energy (MeV)](Image)

![Gamma Prod (barns/MeV)](Image)
Recoil Heating

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

- Heating (MeV/reaction) range: 0 to 250
- Energy (MeV) range: 0 to 20

Graph shows the relationship between energy and recoil heating, with a notable increase in heating as energy increases.
ENDF/B-VII AG-109
Particle production cross sections

Cross section (barns) vs. Energy (MeV)

- Protons
- Alphas
ENDF/B-VII AG-109
protons from \((n,n^*)p\)
ENDF/B-VII AG-109
protons from (n,2np)
ENDF/B-VII AG-109
angular distribution for (n,p*0) proton
angular distribution for (n,p*1) proton
ENDF/B-VII AG-109
angular distribution for (n,p*2) proton
ENDF/B-VII AG-109
angular distribution for \((n,p^*3)\) proton
ENDF/B-VII AG-109 angular distribution for (n, p, 4) proton
ENDF/B-VII AG-109
angular distribution for (n,p*5) proton

Energy (MeV)
ENDF/B-VII AG-109
angular distribution for \((n,p^*6)\) proton
angular distribution for (n,p*7) proton
ENDF/B-VII AG-109

angular distribution for \((n,p^*8)\) proton

Energy (MeV)

Cosine

Prob/Cos
ENDF/B-VII AG-109
angular distribution for (n,p*9) proton
ENDF/B-VII AG-109
angular distribution for \( (n,p^{*10}) \) proton
ENDF/B-VII AG-109
angular distribution for (n,p*11) proton

Energy (MeV)

Prob/Cos

Cosine

Prob/Cos

-1.0 0.5 0.0 -0.5 -1.0

-2.0 1.0 1.5 2.0
ENDF/B-VII AG-109
angular distribution for (n,p*12) proton
ENDF/B-VII AG-109
angular distribution for (n,p*13) proton
ENDF/B-VII AG-109
angular distribution for (n,p*14) proton
ENDF/B-VII AG-109
angular distribution for (n,p*15) proton
ENDF/B-VII AG-109
angular distribution for (n,p*16) proton
angular distribution for (n,p*17) proton
ENDF/B-VII AG-109
angular distribution for (n,p*18) proton
ENDF/B-VII AG-109
angular distribution for (n,p*19) proton
angular distribution for (n,p*20) proton
ENDF/B-VII AG-109
angular distribution for (n,p*21) proton
angular distribution for (n,p*22) proton

Energy (MeV)

Cosine

Prob/Cos

ENDF/B-VII AG-109
angular distribution for (n,p*23) proton

ENDORI/B-VII AG-109
ENDF/B-VII AG-109
angular distribution for (n,p^24) proton
ENDF/B-VII AG-109
angular distribution for \((n,p*25)\) proton
ENDF/B-VII AG-109
angular distribution for (n,p*26) proton
angular distribution for (n,p*27) proton
ENDF/B-VII AG-109
angular distribution for (n,p*28) proton
angular distribution for (n,p*29) proton
ENDF/B-VII AG-109
angular distribution for (n,p*30) proton

Energy (MeV)

Cosine

Prob/Cos

10.0

1.0

0.5

0.0

-0.5

-1.0

0
ENDF/B-VII AG-109
protons from (n,p*c)
ENDF/B-VII AG-109
alphas from (n,n*)a

Prob/Mev

Energy (MeV)

Sec. Energy

Prob/Mev

Energy (MeV)
ENDF/B-VII AG-109
alphas from (n,2n)a
ENDF/B-VII AG-109
angular distribution for (n,a*0) alpha

ENGF/B-VII AG-109
angular distribution for (n,a*0) alpha

Energy (MeV)

Cosine

Probl/Cos

10

10

10

10

10
ENDF/B-VII AG-109
angular distribution for (n,a^1) alpha
ENDF/B-VII AG-109
alphas from (n,a*c)