ENDF/B-VII ER-162
Principal cross sections

Energy (MeV)

Cross section (barns)

- total
- absorption
- elastic
- gamma production

Energy (MeV)
ENDF/B-VII ER-162
resonance total cross section

Energy (MeV)

Cross section (barns)
ENDF/B-VII ER-162
resonance total cross section
ENDF/B-VII ER-162
resonance total cross section

![Graph showing resonance total cross section with energy on the x-axis and cross section on the y-axis. The graph includes multiple resonances with a smooth decrease at higher energies. The y-axis is logarithmic, ranging from $10^{-4}$ to $10^3$ (barns), and the x-axis is also logarithmic, ranging from $10^{-4}$ to $10^{-3}$ (MeV).]
ENDF/B-VII ER-162
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

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

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

Energy (MeV)

Capture
ENDF/B-VII ER-162
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
ENDF/B-VII ER-162
resonance absorption cross sections
ENDF/B-VII ER-162
Principal cross sections

Energy (MeV)

Cross section (barns)

total
absorption
elastic
gamma production

Energy (MeV)
ENDF/B-VII ER-162
Non-threshold reactions

Cross section (barns) vs. Energy (MeV)

Cross section is plotted on a log-log scale. The reaction denoted as (n,gma) shows a decrease in cross section with increasing energy.
ENDF/B-VII ER-162
Inelastic levels

Energy (MeV)

Cross section (barns)

*10^{-3}

0 2 4 6 8 10 12 14 16 18 20

(n,n*11)
(n,n*12)
(n,n*13)
(n,n*14)
(n,n*15)
ENDF/B-VII ER-162
Inelastic levels

Energy (MeV)

Cross section (barns)

(n,n*16)

(n,n*17)
ENDF/B-VII ER-162
Threshold reactions

Cross section (barns)

Energy (MeV)

- (n,2n)
- (n,3n)
- (n,n*)a
- (n,n*)p
- (n,n*c)
ENDF/B-VII ER-162
Threshold reactions

Energy (MeV) vs. Cross section (barns)

- (n,p)
- (n,d)
- (n,t)
- (n,a)
ENDF/B-VII ER-162
angular distribution for elastic

Energy (MeV) vs. Pro/Cos

0.5 1.0 0.0 0.5 -0.5 -1.0

Cosine

10^{-1} 10^{-1} 10^{-1} 10^{1} 10^{1}
ENDF/B-VII ER-162
angular distribution for (n,n*1)
angular distribution for (n,n*2)

ENDF/B-VII ER-162

Prob/Cos

Energy (MeV)
ENDF/B-VII ER-162
angular distribution for (n,n*3)
ENDF/B-VII ER-162
angular distribution for (n,n*4)

Energy (MeV)

0.0 0.5 1.0
Cosine

Prob/Cos

0 1 2 3 4 5 6 7 8 9 10
ENDF/B-VII ER-162
angular distribution for (n,n*5)

Energy (MeV)

Cosine

Pro/Clas
ENDF/B-VII ER-162
angular distribution for (n,n*6)
ENDF/B-VII ER-162
angular distribution for (n,n*7)
ENDF/B-VII ER-162 angular distribution for (n,n*8)
ENDF/B-VII ER-162 angular distribution for (n,n*9)
ENDF/B-VII ER-162
angular distribution for (n,n*10)
ENDF/B-VII ER-162
angular distribution for $(n,n^{*}11)$
ENDF/B-VII ER-162
angular distribution for (n,n*13)
ENDF/B-VII ER-162
angular distribution for (n,n*14)
angular distribution for (n,n*15)

ENDF/B-VII ER-162

Prob/Cos

Energy (MeV)

1.0 0.5 0.0 -0.5 -1.0

Cosine

Prob/Cos

10° 20°
ENDF/B-VII ER-162
angular distribution for (n,n*16)
angular distribution for $(n,n^{*17})$
ENDF/B-VII ER-162
angular distribution for \((n,n^*c)\)
ENDF/B-VII ER-162
Neutron emission for (n,2n)
ENDF/B-VII ER-162
Neutron emission for (n,3n)
ENDF/B-VII ER-162
Neutron emission for (n,n*)a
ENDF/B-VII ER-162
Neutron emission for \((n,n^*)p\)
ENDF/B-VII ER-162
Neutron emission for \((n,n^*c)\)
ENDF/B-VII ER-162
Photon emission for (n,2n)
ENDF/B-VII ER-162
Photon emission for (n,3n)
ENDF/B-VII ER-162
Photon emission for (n,n*c)
ENDF/B-VII ER-162
Photon emission for (n,gma)
ENDF/B-VII ER-162
Photon emission for (n,p)
ENDF/B-VII ER-162
Photon emission for (n,a)
ENDF/B-VII ER-162
thermal capture photon spectrum

Gamma Energy (MeV) vs. Gamma Prod (barns/MeV) graph.