ENDF/B-VII O-16
Principal cross sections

Cross section (barns)

Energy (MeV)
ENDF/B-VII O-16
resonance total cross section

Cross section (barns)

Energy (MeV)
ENDF/B-VII O-16
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
ENDF/B-VII O-16

Heating

Heating (MeV/reaction) vs. Energy (MeV)
ENDF/B-VII O-16
Non-threshold reactions

Cross section (barns)

Energy (MeV)
ENDF/B-VII O-16
Principal cross sections

Cross section (barns)

Energy (MeV)

total
absorption
elastic
gamma production
ENDF/B-VII O-16

Heating

Heating (MeV/reaction) vs. Energy (MeV)
ENDF/B-VII O-16

Damage

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

*10^{-3}

0 20 40 60 80 100 120 140 160

0 50 100 150 200 250 300 350
ENDF/B-VII O-16
Non-threshold reactions

Cross section (barns)

Energy (MeV)
ENDF/B-VII O-16
Inelastic levels

Cross section (barns)

Energy (MeV)
ENDF/B-VII O-16
Inelastic levels

Cross section (barns) vs Energy (MeV)

- (n,n*6)
- (n,n*7)
ENDF/B-VII O-16
Threshold reactions

Energy (MeV)

Cross section (barns)

- (n,x)
- (n,2n)
- (n,n*)a
- (n,n*)3a
- (n,n*)p
ENDF/B-VII O-16
Threshold reactions

Cross section (barns)

Energy (MeV)
ENDF/B-VII O-16
Threshold reactions

Energy (MeV)

Cross section (barns)

- *(n,p)*
- *(n,d)*
- *(n,t)*
- *(n,a)*
- *(n,2a)*
ENDF/B-VII O-16
Threshold reactions

Energy (MeV)

Cross section (barns)

- (n,xp)
- (n,xd)
- (n,xt)
- (n,xa)
- (n,p*)

*10^{-3}
ENDF/B-VII O-16
Threshold reactions

Cross section (barns) vs. Energy (MeV)

Reactions:
- (n,p*1)
- (n,p*2)
- (n,p*3)
- (n,d*0)
- (n,d*1)
ENDF/B-VII O-16
Threshold reactions

Cross section (barns)

Energy (MeV)

*10^-3
ENDF/B-VII O-16
Threshold reactions

Energy (MeV)

Cross section (barns)

- *(n,\gamma)^2*
- *(n,\gamma)^3*
- *(n,\gamma)^4*
- *(n,\gamma)^5*
- *(n,\gamma)^6*
ENDF/B-VII O-16
Threshold reactions

Cross section (barns) vs. Energy (MeV) graph.
angular distribution for elastic

ENDF/B-VII O-16

Prob/Cos

Energy (MeV)

Cosine
ENDF/B-VII O-16
angular distribution for elastic

Energy (MeV)
ENDF/B-VII O-16

Angular distribution for (n,n^1)
angular distribution for (n,n\*2)
ENDF/B-III O-16

angular distribution for (n,n*)

Energy (MeV)

0.0 0.5 1.0

Cosine

-1.0 -0.5 0.0 0.5 1.0

Prob/Cos

1.0 2.5 3.0
ENDF/B-VII O-16

angular distribution for (n,n*4)

Prob/Cos

Energy (MeV)

Cosine

1.0 0.5 0.0 -0.5 -1.0

0 -0.5 -1.0

0 25 50
ENDF/B-VII O-16
angular distribution for (n,n*5)
ENDF/B-VII O-16
Neutron emission for (n,x)
ENDF/B-VII O-16
Neutron emission for (n,2n)
ENDF/B-VII O-16
Neutron emission for (n,n*) 3a
ENDF/B-VII O-16
Neutron emission for \((n,n^*)p\)
ENDF/B-VII O-16
Neutron emission for (n,2np)
ENDF/B-VII O-16
Neutron emission for (n,n2p)
ENDF/B-VII O-16
Neutron emission for (n,npa)
ENDF/B-VII O-16
Neutron emission for \((n,n^*c)\)
ENDF/B-VII-O-16
Photon emission for (n,x)
ENDF/B-VII O-16
Photon emission for (n,n*)3a
ENDF/B-VII.0-16
Photon emission for (n,n*)p
ENDF/B-VII O-16
Photon emission for (n,n*)d

\begin{equation}
E_n(MeV) = E_\gamma(MeV)
\end{equation}
ENDF/B-VII O-16
Photon emission for (n,npa)
ENDF/B-VII O-16
Photon emission for \((n,n^*c)\)
ENDF/B-VII O-16
Photon emission for (n,2a)
ENDF/B-VII O-16
Photon emission for \((n,t^*c)\)
ENDF/B-VII O-16
thermal capture photon spectrum

Gamma Energy (MeV)

Gamma Prod (barns/MeV)
ENDF/B-VII O-16
14 MeV photon spectrum

Graph showing the gamma production rate (in barns per MeV) as a function of gamma energy (in MeV). The x-axis represents gamma energy ranging from 0 to 15 MeV, and the y-axis represents gamma production ranging from $10^{-8}$ to $10^{-6}$ barns per MeV.
ENDF/B-VII O-16
Particle production cross sections

Energy (MeV)

Cross section (barns)

- protons
- deuterons
- tritons
- alphas
ENDF/B-VII O-16
protons from (n,x)
ENDF/B-VII O-16
protons from (n,n*)p
ENDF/B-VII O-16
protons from (n,2np)
ENDF/B-VII O-16 protons from (n,n2p)
ENDF/B-VII O-16 protons from (n, npa)
ENDF/B-VII O-16
protons from (n,pa)
ENDF/B-VII O-16
deuterons from (n,x)
ENDF/B-VII O-16
deuterons from \((n,n^*)d\)
ENDF/B-VII O-16 tritons from (n,x)
ENDF/B-VII O-16
tritons from (n,t*c)
ENDF/B-VII O-16
alphas from (n,n*)a

Energy (MeV)

Prob/MeV
ENDF/B-VII O-16
alphas from \((n,n^*)3a\)
ENDF/B-VII O-16
alphas from (n,npa)
ENDF/B-VII O-16
alphas from (n,2a)
ENDF/B-VII O-16
alphas from (n,pa)
ENDF/B-VII O-16
angular distribution for (n,a*0) alpha