ENDF/B-VII.1 O-16
resonance total cross section

Energy (MeV)

Cross section (barns)

total
ENDF/B-VII.1 O-16
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

Capture
ENDF/B-VII.1 O-16
Principal cross sections

- Total
- Absorption
- Elastic
- Gamma production

Cross section (barns) vs. Energy (MeV)
ENDF/B-VII.1 O-16
Heating

Heating (MeV/reaction) vs. Energy (MeV)
ENDF/B-VII.1 O-16
Non-threshold reactions

Cross section (barns)

Energy (MeV)

(\text{n,gma})
ENDF/B-VII.1 O-16
Inelastic levels

Cross section (barns) vs. Energy (MeV)

- (n,n*1)
- (n,n*2)
- (n,n*3)
- (n,n*4)
- (n,n*5)
ENDF/B-VII.1 O-16
Threshold reactions

Energy (MeV)

Cross section (barns)

- (n,p)
- (n,d)
- (n,t)
- (n,a)
- (n,2a)
ENDF/B-VII.1 O-16
Threshold reactions

Cross section (barns) vs. Energy (MeV)

The graph shows the threshold reactions for O-16 as a function of energy. The cross section (in barns) increases significantly with energy, reaching a peak near 30 MeV.
ENDF/B-VII.1 O-16
angular distribution for elastic
ENDF/B-VII.1 O-16
angular distribution for elastic
ENDF/B-VII.1 O-16
angular distribution for (n,n*1)
ENDF/B-VII.1 O-16
angular distribution for (n,n*2)
ENDF/B-VII.1 O-16
angular distribution for \((n,n^*3)\)
ENDF/B-VII.1 O-16
angular distribution for (n,n\*4)
ENDF/B-VII.1 O-16
angular distribution for (n,n*5)
ENDF/B-VII.1 O-16
Neutron emission for (n,x)
ENDF/B-VII.1 O-16
Neutron emission for (n,2n)
ENDF/B-VII.1 O-16
Neutron emission for \((n,n^*)a\)
ENDF/B-VII.1 O-16
Neutron emission for \((n,n^*)3a\)
ENDF/B-VII.1 O-16
Neutron emission for (n,n*)p
ENDF/B-VII.1 O-16
Neutron emission for (n,2np)
ENDF/B-VII.1 O-16
Neutron emission for (n,2np)
ENDF/B-VII.1 O-16
Neutron emission for \((n,npa)\)
ENDF/B-VII.1 O-16
Neutron emission for (n,n*c)
ENDF/B-VII.1 O-16
Photon emission for \( (n,x) \)
ENDF/B-VII.1 O-16
Photon emission for (n,n*)3a
ENDF/B-VII.1 O-16
Photon emission for (n,n*)p
ENDF/B-VII.1 O-16
Photon emission for (n,n*)d
ENDF/B-VII.1 O-16
Photon emission for (n,2np)
ENDF/B-VII.1 O-16
Photon emission for (n,2np)
ENDF/B-VII.1 O-16
Photon emission for (n,n\*c)
ENDF/B-VII.1 O-16
Photon emission for (n,2a)
ENDF/B-VII.1 O-16
Photon emission for (n,pa)
ENDF/B-VII.1 O-16
thermal capture photon spectrum
ENDF/B-VII.1 O-16
14 MeV photon spectrum
ENDF/B-VII.1 O-16
Particle heating contributions

Energy (MeV) vs. MeV/collision for protons, deuterons, tritons, and alphas.
Recoil Heating

Heating (MeV/reaction) vs. Energy (MeV) graph for ENDF/B-VII.1 O-16.
ENDF/B-VII.1 O-16 protons from (n,x)
ENDF/B-VII.1 O-16 protons from (n,n*)p
ENDF/B-VII.1 O-16
protons from (n,2np)
ENDF/B-VII.1 O-16 protons from (n,2np)
ENDF/B-VII.1 O-16
protons from (n,npa)
ENDF/B-VII.1 O-16 protons from (n,pa)

Graph showing the probability of secondary energy production as a function of energy in MeV.
ENDF/B-VII.1 O-16 deuterons from (n,x)
ENDF/B-VII.1 O-16 deuterons from (n,n*)d
ENDF/B-VII.1 O-16
tritons from (n,x)
ENDF/B-VII.1 O-16 tritons from (n,t*c)

```
0 - 3
P   r
o   M
V
```

```
2 2 2
S  e  c.
E  n  e  r  g  y
2 2 2
M  e  V
```
ENDF/B-VII.1 O-16
alphas from (n,x)
ENDF/B-VII.1 O-16 alphas from (n,n*)a
ENDF/B-VII.1 O-16 alphas from \((n,n^*)3a\)
ENDF/B-VII.1 O-16
alphas from (n,npa)
ENDF/B-VII.1 O-16 alphas from (n,2a)
ENDF/B-VII.1 O-16 alphas from (n,pa)
ENDF/B-VII.1 O-16
angular distribution for (n,a*0) alpha