ENDF/B-VII ND-148
resonance total cross section

Cross section (barns)

Energy (MeV)
ENDF/B-VII ND-148
resonance total cross section
ENDF/B-VII ND-148
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture
ENDF/B-VII ND-148
resonance absorption cross sections
ENDF/B-VII ND-148
UR total cross section

Energy (MeV)

Cross section (barns)

- Inf. Dil.
- 100 b

Energy (MeV) vs Cross section (barns) for ENDF/B-VII ND-148 UR total cross section.
ENDF/B-VII ND-148
UR elastic cross section

Energy (MeV) vs Cross section (barns)
ENDF/B-VII ND-148
UR capture cross section

Energy (MeV)

Cross section (barns)

Inf. Dil.
100 b
ENDF/B-VII ND-148
Damage

Damage (MeV-barns) vs Energy (MeV)
ENDF/B-VII ND-148
Non-threshold reactions

Energy (MeV)

Cross section (barns)

(n,gma)
ENDF/B-VII ND-148
Inelastic levels

Energy (MeV)

Cross section (barns)

(n,n*1)
(n,n*2)
(n,n*3)
(n,n*4)
(n,n*5)
ENDF/B-VII ND-148
Inelastic levels

Energy (MeV)

Cross section (barns)

(n,n*6)
(n,n*7)
(n,n*8)
(n,n*9)
(n,n*10)
ENDF/B-VII ND-148
Inelastic levels

Cross section (barns) vs. Energy (MeV)

- (n,n*16)
ENDF/B-VII ND-148
Threshold reactions

Energy (MeV) vs. Cross section (barns)

- (n,2np)
- (n,n*)
- (n,p)
- (n,a)
ENDF/B-VII ND-148
Threshold reactions

Cross section (barns) vs. Energy (MeV)

- (n,a*11)
- (n,a*12)
- (n,a*c)
angular distribution for elastic

ENDF/B-VII ND-148
ENDF/B-VII ND-148
angular distribution for (n,n*1)
ENDF/B-VII ND-148
angular distribution for (n,n*3)
ENDF/B-VII ND-148
angular distribution for \((n,n^*4)\)
ENDF/B-VII ND-148
angular distribution for (n, n*5)

Energy (MeV)
ENDF/B-VII ND-148
angular distribution for (n,n*6)
ENDF/B-VII ND-148
angular distribution for (n,n*7)
ENDF/B-VII ND-148
angular distribution for (n,n*9)
ENDF/B-VII ND-148
angular distribution for (n,n*11)
ENDF/B-VII ND-148
angular distribution for (n,n*12)
ENDF/B-VII ND-148
angular distribution for (n,n*13)
ENDF/B-VII ND-148
angular distribution for (n,n*14)
ENDF/B-VII ND-148
angular distribution for (n,n*15)
ENDF/B-VII ND-148
angular distribution for (n,n*16)
ENDF/B-VII ND-148
Neutron emission for (n,2n)
ENDF/B-VII ND-148
Neutron emission for (n,3n)
ENDF/B-VII ND-148
Neutron emission for \((n,n^*)a\)
ENDF/B-VII ND-148
Neutron emission for \((n,n^*)p\)
ENDF/B-VII ND-148
Neutron emission for \((n,n^*c)\)
Photon emission for (n,2n)
ENDF/B-VII ND-148
Photon emission for (n,n*)a
ENDF/B-VII ND-148
Photon emission for (n,2n)a
ENDF/B-VII ND-148
Photon emission for \((n,n^*)p\)
ENDF/B-VII ND-148
Photon emission for (n,n*c)
ENDF/B-VII ND-148
Photon emission for \((n,g\gamma)\)
ENDF/B-VII ND-148
Photon emission for (n,p*c)
ENDF/B-VII ND-148
thermal capture photon spectrum
ENDF/B-VII ND-148
14 MeV photon spectrum

Gamma Energy (MeV)

Gamma Prod (barns/MeV)
ENDF/B-VII ND-148
Particle heating contributions

Graph showing particle heating contributions as a function of energy (MeV). Two curves are present:
- Protons
- Alphas

Axes:
- Y-axis: MeV/collision
- X-axis: Energy (MeV)

The graph illustrates how the particle heating contributions increase with energy, with alphas showing a steeper increase compared to protons.
Recoil Heating

ENDF/B-VII ND-148

Energy (MeV)

Heating (MeV/reaction)

recoil heating
ENDF/B-VII ND-148
Particle production cross sections

Energy (MeV)

Cross section (barns)

- protons
- alphas

Energy (MeV)
ENDF/B-VII ND-148
protons from \((n,n^*)p\)
angular distribution for (n,p*0) proton
ENDF/B-VII ND-148
alphas from (n,n*)a
ENDF/B-VII ND-148 alphas from \((n,2n)\)
ENDF/B-VII ND-148
angular distribution for (n,a*0) alpha
angular distribution for (n,a*1) alpha

ENDF/B-VII ND-148
ENDF/B-VII ND-148
angular distribution for (n,a*2) alpha
ENDF/B-VII ND-148
angular distribution for \((n,a^4)\) alpha

\[ \frac{P}{\cos} \]

\[ \text{Energy (MeV)} \]

\[ \cos \]
ENDF/B-VII ND-148
angular distribution for (n,a*5) alpha
ENDF/B-VII ND-148
angular distribution for (n,a*6) alpha
ENDF/B-VII ND-148
angular distribution for (n,a*7) alpha
ENDF/B-VII ND-148 angular distribution for (n,a*8) alpha
angular distribution for (n,a*9) alpha
angular distribution for (n,a*10) alpha

ENDF/B-VII ND-148

Energy (MeV)
ENDF/B-VII ND-148
angular distribution for \((n,a^*11)\) alpha
ENDF/B-VII ND-148
angular distribution for (n,a*12) alpha
ENDF/B-VII ND-148
alphas from (n,a*c)