Principal cross sections

ENDF/B-VII AU-197

Cross section (barns)

Energy (MeV)

- total
- absorption
- elastic
- gamma production
ENDF/B-VII AU-197
resonance total cross section

Energy (MeV)

Cross section (barns)

10^{-6} to 10^{-5}
ENDF/B-VII AU-197
resonance total cross section

Energy (MeV)

Cross section (barns)

$10^{-5}$

$10^{-4}$
ENDF/B-VII AU-197
resonance total cross section

Energy (MeV)

Cross section (barns)
ENDF/B-VII AU-197
resonance total cross section

Cross section (barns)

Energy (MeV)
ENDF/B-VII AU-197
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
ENDF/B-VII AU-197
resonance absorption cross sections

Cross section (barns)

Energy (MeV)

Capture
ENDF/B-VII AU-197
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
ENDF/B-VII AU-197
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
ENDF/B-VII AU-197
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

10^{-2} to 10^{-1}

10^0
ENDF/B-VII AU-197
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

Capture
ENDF/B-VII AU-197
resonance absorption cross sections

Capture cross section vs. energy (MeV)
ENDF/B-VII AU-197
Heating

Heating (MeV/reaction)

Energy (MeV)
ENDF/B-VII AU-197
Damage

Damage (MeV-barns)

Energy (MeV)
ENDF/B-VII AU-197
Non-threshold reactions

Energy (MeV)

Cross section (barns)

(n,gma)
ENDF/B-VII AU-197
Principal cross sections

Energy (MeV)

Cross section (barns)

total
absorption
elastic
gamma production

0 5 10 15 20 25 30
ENDF/B-VII AU-197
Non-threshold reactions

Cross section (barns)

Energy (MeV)
ENDF/B-VII AU-197

Inelastic levels

Cross section (barns)

Energy (MeV)
ENDF/B-VII AU-197
Inelastic levels

Cross section (barns)

Energy (MeV)
ENDF/B-VII AU-197
Inelastic levels

Cross section (barns) vs. Energy (MeV)

*(n,n*11)*
*(n,n*12)*
*(n,n*13)*
ENDF/B-VII AU-197
Threshold reactions

Cross section (barns)

Energy (MeV)

*10^{-3}
ENDF/B-VII AU-197
angular distribution for elastic
ENDF/B-VII AU-197
angular distribution for (n,2n)
ENDF/B-VII AU-197
angular distribution for (n,3n)
ENDF/B-VII AU-197
angular distribution for (n,n*2)
ENDF/B-VII AU-197

Angular distribution for (n,n^*3)

Energy (MeV)

Cosine

Probability
ENDF/B-VII AU-197
angular distribution for (n,n*4)
ENDF/B-VII AU-197
angular distribution for \((n,n^*5)\)
ENDF/B-VII AU-197
angular distribution for \( (n,n^*6) \)
ENDF/B-VII AU-197
angular distribution for (n,n*7)
ENDF/B-VII AU-197
angular distribution for (n,n*8)
ENDF/B-VII AU-197
angular distribution for (n,n*9)
angular distribution for (n,n*10)

ENDF/B-VII AU-197
ENDF/B-VII AU-197
angular distribution for (n,n*11)
ENDF/B-VII AU-197
angular distribution for (n,n*12)
ENDF/B-VII AU-197
angular distribution for (n,\text{n}^*13)
ENDF/B-VII AU-197
angular distribution for \((n,n^*c)\)
ENDF/B-VII AU-197
Neutron emission for (n,2n)
ENDF/B-VII AU-197
Neutron emission for (n,3n)
ENDF/B-VII AU-197

Neutron emission for (n, n\*c)
ENDF/B-VII AU-197
Photon emission for (n,gma)
ENDF/B-VII AU-197
Photon emission for inelastic
ENDF/B-VII AU-197
Photon emission for (n,2n)
Photon emission for (n,3n)

ENDF/B-VII AU-197
ENDF/B-VII AU-197
Photon emission for (n,4n)
ENDF/B-VII AU-197
thermal capture photon spectrum

Gamma Energy (MeV)

Gamma Prod (barns/MeV)

Gamma Prod (barns/MeV) vs. Gamma Energy (MeV)
ENDF/B-VII AU-197
14 MeV photon spectrum