Principal cross sections

Energy (MeV)

Cross section (barns)

- total
- absorption
- elastic
- gamma production

Energy (MeV)

10^{-11} 10^{-10} 10^{-9} 10^{-8} 10^{-7} 10^{-6} 10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1
resonance total cross section
resonance total cross section
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resonance total cross section

Energy (MeV)

Cross section (barns)
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resonance total cross section

Energy (MeV)

Cross section (barns)

10^0

10^1

10^0

10^1

Energy (MeV)

Cross section (barns)

10^0

10^1

10^0

10^1
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resonance absorption cross sections
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture
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resonance absorption cross sections

Cross section (barns)

Energy (MeV)
capture
Heating

Heating (MeV/reaction) vs. Energy (MeV)
Non-threshold reactions

![Graph showing the relationship between energy (MeV) and cross section (barns) for non-threshold reactions. The graph includes a line labeled (n,gma).]
Damage

Damage (MeV-barns)

Energy (MeV)

-10^3

-10^2

-10^1

-10^0

10^0

10^1

10^2

10^3

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Damage
Non-threshold reactions

Cross section (barns)

Energy (MeV)
Threshold reactions

Cross section (barns) vs. Energy (MeV)

- (n,2n)
- (n,n*)p
- (n,n*c)
- (n,p)
- (n,a)
Threshold reactions

Energy (MeV)

Cross section (barns)

(n,2p)
angular distribution for elastic
Neutron emission for (n,2n)
Neutron emission for \((n,n^*)p\)
Photon emission for (n,\gamma)
Photon emission for (n,2n)
Photon emission for (n,n*)p
Photon emission for (n,p)
Photon emission for (n,a)
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thermal capture photon spectrum

Gamma Energy (MeV)

Gamma Prod (barns/MeV)
14 MeV photon spectrum
protons from \((n,n^*)p\)
protons from (n,p)
alphas from (n,a)