JEFF-3.1 N-14
Principal cross sections

Energy (MeV) vs. Cross section (barns)

- Total
- Absorption
- Elastic
- Gamma production

Log-log scale graph showing cross sections over a range of energies from $10^{-11}$ to $10^1$ MeV.
JEFF-3.1 N-14
resonance total cross section

Cross section (barns)

Energy (MeV)
JEFF-3.1 N-14
resonance total cross section

Cross section (barns)

Energy (MeV)
JEFF-3.1 N-14
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
JEFF-3.1 N-14
resonance absorption cross sections

Cross section (barns) vs. Energy (MeV)
JEFF-3.1 N-14
Heating

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

Energy (MeV)

Cross section (barns)

(n,gma)
(n,p)
(n,xp)
JEFF-3.1 N-14
Heating

Energy (MeV)

Heating (MeV/reaction)

heating
JEFF-3.1 N-14
Non-threshold reactions

Energy (MeV) vs. Cross section (barns) graph for the reactions (n,gma), (n,p), and (n,xp) of N-14.
JEFF-3.1 N-14
Inelastic levels

Energy (MeV)

Cross section (barns)

- (n,n*11)
- (n,n*12)
- (n,n*13)
- (n,n*14)
- (n,n*15)
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Inelastic levels

Energy (MeV)

Cross section (barns)

(n,n*16)
(n,n*17)
(n,n*18)
(n,n*19)
(n,n*20)
JEFF-3.1 N-14
Threshold reactions

Cross section (barns)

Energy (MeV)

- (n,x)
- (n,2n)
- (n,d)
- (n,t)
- (n,a)

Cross section in barns as a function of energy in MeV.
JEFF-3.1 N-14
Threshold reactions

![Graph showing cross section vs energy for N-14. The graph has a y-axis labeled 'Cross section (barns)' ranging from 0 to 60*10^-3 and an x-axis labeled 'Energy (MeV)' ranging from 8 to 20. The graph shows an increase in cross section as energy increases.]
JEFF-3.1 N-14
Threshold reactions

Cross section (barns)

Energy (MeV)
JEFF-3.1 N-14
Threshold reactions

Energy (MeV)

Cross section (barns)

(n,a*0)
(n,a*1)
(n,a*2)
(n,a*3)
(n,a*4)
JEFF-3.1 N-14
Threshold reactions

Cross section (barns) vs. Energy (MeV)

- (n,a*10)
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angular distribution for elastic
JEFF-3.1 N-14
angular distribution for elastic
JEFF-3.1 N-14
angular distribution for (n,n*1)
JEFF-3.1 N-14
angular distribution for (n,n*2)
JEFF-3.1 N-14
angular distribution for (n,n*3)
JEFF-3.1 N-14
angular distribution for (n,n*4)
JEFF-3.1 N-14
angular distribution for (n,n*5)
JEFF-3.1 N-14
angular distribution for (n,n^6)
JEFF-3.1 N-14
angular distribution for (n,n*7)
JEFF-3.1 N-14
angular distribution for (n,n*8)
JEFF-3.1 N-14
angular distribution for (n,n*9)
JEFF-3.1 N-14
angular distribution for \((n,n*10)\)
JEFF-3.1 N-14
angular distribution for (n,n*11)
JEFF-3.1 N-14
angular distribution for (n,n*12)
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Neutron emission for (n,x)
JEFF-3.1 N-14
Neutron emission for (n,2n)
JEFF-3.1 N-14
Photon emission for (n,gma)
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Photon emission for (n,x)
JEFF-3.1 N-14
thermal capture photon spectrum

Gamma Energy (MeV)

Gamma Prod (barns/MeV)
JEFF-3.1 N-14
14 MeV photon spectrum
JEFF-3.1 N-14
Particle heating contributions

Energy (MeV)

MeV/collision

protons
deuterons
alphas

Energy (MeV)
JEFF-3.1 N-14
protons from (n,x)
JEFF-3.1 N-14
deerons from (n,x)
JEFF-3.1 N-14
alphas from (n,x)