JEFF-3.0 CR-52
Principal cross sections

Energy (MeV)

Cross section (barns)

- total
- absorption
- elastic
- gamma production

Energy (MeV)
JEFF-3.0 CR-52
resonance total cross section

Cross section (barns)

Energy (MeV)
JEFF-3.0 CR-52
resonance total cross section

Energy (MeV)

Cross section (barns)

total
JEFF-3.0 CR-52
resonance total cross section

Cross section (barns)

Energy (MeV)
JEFF-3.0 CR-52
resonance total cross section

Cross section (barns)

Energy (MeV)
JEFF-3.0 CR-52
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

Capture

10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1}

10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1}
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resonance absorption cross sections

[Graph showing resonance absorption cross sections]

Cross section (barns)

Energy (MeV)
JEFF-3.0 CR-52
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
JEFF-3.0 CR-52
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
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Non-threshold reactions

Energy (MeV)

Cross section (barns)

(n,gma) nonelastic
JEFF-3.0 CR-52
Non-threshold reactions

Energy (MeV)

Cross section (barns)

(n,gma)
JEFF-3.0 CR-52
Non-threshold reactions

Energy (MeV)

Cross section (barns)

(n,gma)
nonelastic
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Non-threshold reactions

Energy (MeV)

Cross section (barns)

(n,gma)
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Inelastic levels

Energy (MeV)

Cross section (barns)

(n,n*6)
(n,n*7)
(n,n*8)
(n,n*9)
(n,n*10)
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Inelastic levels

Cross section (barns) vs. Energy (MeV)

(n,n*16)
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Threshold reactions

Energy (MeV)

Cross section (barns)

(n,x)
(n,p*0)
(n,p*1)
(n,p*2)
(n,p*3)
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Threshold reactions

![Graph showing threshold reactions with cross section in barns vs. energy in MeV. The graph includes curves for different reactions labeled (n,p*14) to (n,p*18).]
JEFF-3.0 CR-52
Threshold reactions

Energy (MeV)

Cross section (barns)

(n,p*24)
(n,a*0)
(n,a*1)
(n,a*2)
(n,a*3)
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Threshold reactions

Cross section (barns)

Energy (MeV)
JEFF-3.0 CR-52
angular distribution for elastic
JEFF-3.0 CR-52
angular distribution for \((n,n^*1)\)
JEFF-3.0 CR-52
angular distribution for (n,n*2)
JEFF-3.0 CR-52
angular distribution for (n,n*3)
JEFF-3.0 CR-52
angular distribution for (n,n*4)
JEFF-3.0 CR-52
angular distribution for (n,n*5)
JEFF-3.0 CR-52
angular distribution for (n,n*6)
JEFF-3.0 CR-52
angular distribution for (n,n*7)
JEFF-3.0 CR-52
angular distribution for (n,n*8)
JEFF-3.0 CR-52
angular distribution for \((n,n^*9)\)
JEFF-3.0 CR-52
angular distribution for (n,n*10)
JEFF-3.0 CR-52
angular distribution for (n,n*11)
JEFF-3.0 CR-52
angular distribution for (n,n*13)
JEFF-3.0 CR-52
angular distribution for (n,n*14)
JEFF-3.0 CR-52
angular distribution for (n,n*15)
JEFF-3.0 CR-52
angular distribution for (n,n*16)
JEFF-3.0 CR-52
Neutron emission for (n,x)
JEFF-3.0 CR-52
Photon emission for nonelastic
JEFF-3.0 CR-52
Photon emission for (n,gma)
JEFF-3.0 CR-52
thermal capture photon spectrum

Gamma Energy (MeV)

Gamma Prod (barns/MeV)
JEFF-3.0 CR-52
14 MeV photon spectrum
JEFF-3.0 CR-52
Particle heating contributions

Energy (MeV)

MeV/collision

protons

alphas

Energy (MeV)
JEFF-3.0 CR-52
protons from (n,x)
JEFF-3.0 CR-52
angular distribution for (n,p*1) proton
JEFF-3.0 CR-52
angular distribution for (n,p*4) proton
JEFF-3.0 CR-52
angular distribution for (n,p*5) proton
JEFF-3.0 CR-52
angular distribution for (n,p*6) proton
JEFF-3.0 CR-52
angular distribution for (n,p*7) proton
JEFF-3.0 CR-52
angular distribution for (n,p*8) proton
JEFF-3.0 CR-52
angular distribution for \((n,p*10)\) proton
JEFF-3.0 CR-52
angular distribution for (n,p*11) proton
JEFF-3.0 CR-52
angular distribution for (n,p*12) proton
JEFF-3.0 CR-52
angular distribution for (n,p*13) proton
JEFF-3.0 CR-52
angular distribution for (n,p*14) proton
JEFF-3.0 CR-52
angular distribution for \((n,p^*15)\) proton
JEFF-3.0 CR-52
angular distribution for (n,p*16) proton
JEFF-3.0 CR-52
angular distribution for (n,p*17) proton
JEFF-3.0 CR-52
angular distribution for (n,p*18) proton
JEFF-3.0 CR-52
angular distribution for (n,p*19) proton
JEFF-3.0 CR-52
angular distribution for (n,p*20) proton
JEFF-3.0 CR-52
angular distribution for (n,p*21) proton
JEFF-3.0 CR-52
angular distribution for (n,p*22) proton
JEFF-3.0 CR-52
angular distribution for (n,p*23) proton
JEFF-3.0 CR-52
angular distribution for (n,p*24) proton
JEFF-3.0 CR-52
alphas from (n,x)
JEFF-3.0 CR-52
angular distribution for (n,a*1) alpha
JEFF-3.0 CR-52
angular distribution for (n,a*2) alpha
JEFF-3.0 CR-52
angular distribution for (n,a*3) alpha
JEFF-3.0 CR-52
angular distribution for (n,a*4) alpha
JEFF-3.0 CR-52
angular distribution for (n,a*5) alpha

Energy (MeV)
JEFF-3.0 CR-52
angular distribution for (n,a*6) alpha
JEFF-3.0 CR-52
angular distribution for (n,a*7) alpha
JEFF-3.0 CR-52 angular distribution for \((n,a^8)\) alpha
JEFF-3.0 CR-52
angular distribution for (n,a*9) alpha
JEFF-3.0 CR-52
angular distribution for (n,a*10) alpha
JEFF-3.0 CR-52
angular distribution for (n,a*11) alpha