JEFF-3.0 MN-55
resonance total cross section

![Graph showing the resonance total cross section with a peak at an energy of approximately 10^{-3} MeV. The y-axis represents cross section in barns (b), ranging from 10^{-4} to 10^3, and the x-axis represents energy in MeV, ranging from 10^{-4} to 10^{-3}. The graph highlights a resonance peak.](image-url)
JEFF-3.0 MN-55
resonance total cross section
JEFF-3.0 MN-55
resonance total cross section

Cross section (barns)

Energy (MeV)
JEFF-3.0 MN-55
resonance total cross section
JEFF-3.0 MN-55
resonance total cross section
JEFF-3.0 MN-55
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1

10^{-4} 10^{-3}

10^{0} 10^{1}

Energy (MeV)

capture

10^{-4} 10^{-3}
JEFF-3.0 MN-55
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
JEFF-3.0 MN-55
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

Capture
JEFF-3.0 MN-55
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

Capture
JEFF-3.0 MN-55
Non-threshold reactions

Cross section (barns) vs. Energy (MeV)
JEFF-3.0 MN-55
Non-threshold reactions

Cross section (barns)

Energy (MeV)

(n,gma)
JEFF-3.0 MN-55
Inelastic levels

Energy (MeV)

Cross section (barns)

(n,n*1)
(n,n*2)
(n,n*3)
(n,n*4)
(n,n*5)

Energy (MeV)
JEFF-3.0 MN-55
Inelastic levels

Energy (MeV)

Cross section (barns)

(n,n*11)
(n,n*12)
(n,n*13)
(n,n*14)
(n,n*15)
JEFF-3.0 MN-55
Inelastic levels

Energy (MeV)

Cross section (barns)

(n,n*16)
JEFF-3.0 MN-55
Threshold reactions

Energy (MeV)

Cross section (barns)

- (n,2n)
- (n,n^*)a
- (n,n^*)p
- (n,n^*c)
- (n,p)
JEFF-3.0 MN-55
angular distribution for elastic
JEFF-3.0 MN-55
angular distribution for \((n,n^*1)\)
JEFF-3.0 MN-55
angular distribution for (n,n^*3)
JEFF-3.0 MN-55
angular distribution for (n,n*4)
JEFF-3.0 MN-55
angular distribution for (n,n*5)
JEFF-3.0 MN-55
angular distribution for (n,n*6)
JEFF-3.0 MN-55
angular distribution for (n,n*7)
JEFF-3.0 MN-55
angular distribution for (n,n*8)
JEFF-3.0 MN-55
angular distribution for \((n,n^*9)\)
JEFF-3.0 MN-55
angular distribution for (n,n*10)
JEFF-3.0 MN-55
angular distribution for \((n,n^{*11})\)
JEFF-3.0 MN-55
angular distribution for (n,n*12)
JEFF-3.0 MN-55
angular distribution for (n,n*13)
JEFF-3.0 MN-55
angular distribution for (n,n*14)
JEFF-3.0 MN-55
angular distribution for (n,n*15)
JEFF-3.0 MN-55
angular distribution for \((n,n^*16)\)
JEFF-3.0 MN-55
Neutron emission for \( (n,2n) \)
JEFF-3.0 MN-55
Neutron emission for \((n,n^*)a\)
JEFF-3.0 MN-55
Neutron emission for \((n,n^*)p\)
JEFF-3.0 MN-55
Neutron emission for \((n,n^*c)\)
JEFF-3.0 MN-55
Photon emission for inelastic

![Graph showing photon emission for inelastic processes.](image-url)
JEFF-3.0 MN-55
Photon emission for (n,2n)
JEFF-3.0 MN-55
Photon emission for (n,n*)a
Photon emission for (n,n*)p
JEFF-3.0 MN-55
Photon emission for (n,gma)
JEFF-3.0 MN-55
Photon emission for (n,p)
JEFF-3.0 MN-55
Photon emission for (n,a)
JEFF-3.0 MN-55
thermal capture photon spectrum

Gamma Energy (MeV)

Gamma Prod (barns/MeV)
JEFF-3.0 MN-55
14 MeV photon spectrum
JEFF-3.0 MN-55
Particle heating contributions

- protons
- deuterons
- tritons
- he-3
- alphas

Energy (MeV) vs. MeV/collision
JEFF-3.0 MN-55
Recoil Heating

Energy (MeV)

Heating (MeV/reaction)

recoil heating
JEFF-3.0 MN-55
Particle production cross sections

Energy (MeV)

Cross section (barns)

protons
deuterons
tritons
he-3
alphas
JEFF-3.0 MN-55
protons from (n,xp)
JEFF-3.0 MN-55
deuterons from (n,xd)
JEFF-3.0 MN-55
tritons from (n,xt)
JEFF-3.0 MN-55
he3s from (n,xhe3)
JEFF-3.0 MN-55
alphas from (n,xa)