JEFF-3.0 P-31
Principal cross sections
JEFF-3.0 P-31
resonance total cross section

Cross section (barns)

Energy (MeV)
JEFF-3.0 P-31
resonance total cross section

Energy (MeV)

Cross section (barns)

total
JEFF-3.0 P-31
resonance absorption cross sections

[Graph showing resonance absorption cross sections with energy on the x-axis and cross section on the y-axis, with peaks at specific energies.]
JEFF-3.0 P-31
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture
JEFF-3.0 P-31
Non-threshold reactions

Energy (MeV)

Cross section (barns)

(n, gma)
JEFF-3.0 P-31
Principal cross sections

Energy (MeV)

Cross section (barns)

total
absorption
elastic
gamma production
JEFF-3.0 P-31
Non-threshold reactions

Cross section (barns) vs. Energy (MeV)
JEFF-3.0 P-31
Inelastic levels

Cross section (barns) vs. Energy (MeV)

- (n,n*6)
JEFF-3.0 P-31
Threshold reactions

Cross section (barns) vs. Energy (MeV)

- (n,a) reaction

- Energy range: 2 to 20 MeV

- Cross section range: 10^-3 to 160 barns

Graph shows a peak in cross section around 10 MeV.
JEFF-3.0 P-31
angular distribution for elastic
JEFF-3.0 P-31
angular distribution for (n,n*1)
JEFF-3.0 P-31
angular distribution for (n,n^*2)
JEFF-3.0 P-31
angular distribution for \( (n,n^*3) \)
JEFF-3.0 P-31
angular distribution for \((n,n^*4)\)
JEFF-3.0 P-31
angular distribution for (n,n*5)
JEFF-3.0 P-31
angular distribution for (n,n*6)
JEFF-3.0 P-31
angular distribution for (n,n*c)
JEFF-3.0 P-31
Neutron emission for (n,2n)
JEFF-3.0 P-31
Neutron emission for \((n,n^*)a\)
JEFF-3.0 P-31
Neutron emission for \((n,n^*)p\)
JEFF-3.0 P-31
Neutron emission for (n,n*c)
JEFF-3.0 P-31
Photon emission for (n,gma)
JEFF-3.0 P-31
Photon emission for (n,p)
JEFF-3.0 P-31
Photon emission for (n,a)
JEFF-3.0 P-31
Photon emission for nonelastic
JEFF-3.0 P-31 thermal capture photon spectrum
JEFF-3.0 P-31
14 MeV photon spectrum