JEFF-3.0 NA-23
Principal cross sections

Energy (MeV)

Cross section (barns)

- total
- absorption
- elastic
- gamma production
JEFF-3.0 NA-23
resonance total cross section

Graph showing the resonance total cross section for JEFF-3.0 NA-23. The x-axis represents energy in MeV, ranging from $10^{-3}$ to $10^{-2}$, and the y-axis represents the cross section in barns, ranging from $10^{-3}$ to $10^2$. The curve peaks at a specific energy level, indicating the resonance effect.
JEFF-3.0 NA-23
resonance total cross section
JEFF-3.0 NA-23
resonance total cross section

Cross section (barns)

Energy (MeV)
JEFF-3.0 NA-23
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

- capture
JEFF-3.0 NA-23
resonance absorption cross sections

Energy (MeV)

Cross section (barns)
JEFF-3.0 NA-23
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture
JEFF-3.0 NA-23
resonance absorption cross sections

Capture cross section versus energy (MeV):
JEFF-3.0 NA-23
Non-threshold reactions

Energy (MeV) vs Cross section (barns)

(n,gma)
JEFF-3.0 NA-23
Principal cross sections

Energy (MeV)

Cross section (barns)

- total
- absorption
- elastic
- gamma production

Energy (MeV)
JEFF-3.0 NA-23
Non-threshold reactions

Cross section (barns)

Energy (MeV)
JEFF-3.0 NA-23
Inelastic levels

Energy (MeV)

Cross section (barns)

*(n,n*16)
*(n,n*17)
*(n,n*18)
*(n,n*19)
*(n,n*20)
JEFF-3.0 NA-23
Inelastic levels

Energy (MeV)

Cross section (barns)

(n,n*21)
(n,n*22)
(n,n*23)
(n,n*24)
(n,n*25)
JEFF-3.0 NA-23
Inelastic levels

Cross section (barns) vs. Energy (MeV)

*10^-3
JEFF-3.0 NA-23
Threshold reactions

Energy (MeV)

Cross section (barns)

(n,2n)  
(n,n*)a  
(n,n*)p  
(n,n*c)  
(n,p)

Energy (MeV)
JEFF-3.0 NA-23
Threshold reactions

Cross section (barns)

Energy (MeV)
JEFF-3.0 NA-23
angular distribution for elastic
JEFF-3.0 NA-23
angular distribution for (n,2n)
JEFF-3.0 NA-23
angular distribution for (n,n*)a
JEFF-3.0 NA-23
angular distribution for (n,n*)p
JEFF-3.0 NA-23
angular distribution for (n,n*1)
JEFF-3.0 NA-23
angular distribution for (n,n*2)
JEFF-3.0 NA-23
angular distribution for (n,n*3)
JEFF-3.0 NA-23
angular distribution for (n,n*4)
JEFF-3.0 NA-23
angular distribution for (n,n^*5)
JEFF-3.0 NA-23
angular distribution for (n,n*6)
JEFF-3.0 NA-23
angular distribution for (n,n*7)
JEFF-3.0 NA-23
angular distribution for (n,n*8)
JEFF-3.0 NA-23
angular distribution for (n,n*9)
JEFF-3.0 NA-23
angular distribution for \((n,n^*10)\)
JEFF-3.0 NA-23
angular distribution for (n,n*11)
JEFF-3.0 NA-23
angular distribution for (n,n*12)
JEFF-3.0 NA-23
angular distribution for (n,n*13)
JEFF-3.0 NA-23
angular distribution for (n,n*14)
JEFF-3.0 NA-23
angular distribution for (n,n*15)
JEFF-3.0 NA-23
angular distribution for (n,n*16)
JEFF-3.0 NA-23
angular distribution for (n,n*17)
JEFF-3.0 NA-23
angular distribution for (n,n*18)
JEFF-3.0 NA-23
angular distribution for (n,n*19)
JEFF-3.0 NA-23
angular distribution for (n,n*20)
JEFF-3.0 NA-23
angular distribution for (n,n^{*}21)
JEFF-3.0 NA-23
angular distribution for (n,n*22)
JEFF-3.0 NA-23
angular distribution for (n,n*23)
JEFF-3.0 NA-23
angular distribution for (n,n*24)
JEFF-3.0 NA-23
angular distribution for (n,n^*25)
JEFF-3.0 NA-23
angular distribution for (n,n*26)
JEFF-3.0 NA-23
angular distribution for (n,n*27)
JEFF-3.0 NA-23
angular distribution for (n,n*c)
JEFF-3.0 NA-23
Neutron emission for (n,2n)
JEFF-3.0 NA-23
Neutron emission for (n,n*)a
JEFF-3.0 NA-23
Neutron emission for (n,n*)p
JEFF-3.0 NA-23
Neutron emission for (n,n\textsuperscript{c})
JEFF-3.0 NA-23
Photon emission for (n,gma)
JEFF-3.0 NA-23
Photon emission for nonelastic
JEFF-3.0 NA-23
thermal capture photon spectrum

Gamma Energy (MeV)

Gamma Prod (barns/MeV)
JEFF-3.0 NA-23
14 MeV photon spectrum

Gamma Energy (MeV)

Gamma Prod (barns/MeV)