JEFF-3.1 ER-164 resonance total cross section

Cross section (barns)

Energy (MeV)
JEFF-3.1 ER-164
resonance total cross section

Energy (MeV)

Cross section (barns)
JEFF-3.1 ER-164
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
JEFF-3.1 ER-164
resonance absorption cross sections

Capture cross sections as a function of energy. The graph shows peaks at various energy levels, indicating resonant absorption processes.
JEFF-3.1 ER-164
resonance absorption cross sections
JEFF-3.1 ER-164
Heating

Heating (MeV/reaction)

Energy (MeV)
JEFF-3.1 ER-164
Non-threshold reactions

Energy (MeV)

Cross section (barns)

(n,gma)
JEFF-3.1 ER-164
Principal cross sections

Energy (MeV)

Cross section (barns)

- total
- absorption
- elastic
- gamma production

Energy (MeV)
JEFF-3.1 ER-164
Non-threshold reactions

Energy (MeV)

Cross section (barns)

$(n,gma)$
JEFF-3.1 ER-164
Inelastic levels

Energy (MeV)

Cross section (barns)

(n,n\textsuperscript{1})
(n,n\textsuperscript{2})
(n,n\textsuperscript{3})
(n,n\textsuperscript{4})
(n,n\textsuperscript{5})

Energy (MeV)
JEFF-3.1 ER-164
Inelastic levels

Cross section (barns)

Energy (MeV)
JEFF-3.1 ER-164
Threshold reactions

Cross section (barns) vs. Energy (MeV)

- (n,xp)
- (n,xd)
- (n,xt)
- (n,xa)
JEFF-3.1 ER-164
angular distribution for elastic
JEFF-3.1 ER-164
angular distribution for (n,n*1)
JEFF-3.1 ER-164
angular distribution for (n,n*2)
JEFF-3.1 ER-164
angular distribution for (n,n*3)
JEFF-3.1 ER-164
angular distribution for \((n,n^4)\)
JEFF-3.1 ER-164
angular distribution for (n,n*5)
JEFF-3.1 ER-164
angular distribution for (n,n*6)
JEFF-3.1 ER-164
angular distribution for (n,n*7)
JEFF-3.1 ER-164
angular distribution for (n,n*8)
JEFF-3.1 ER-164
angular distribution for (n,n*9)
JEFF-3.1 ER-164
angular distribution for (n,n*10)
JEFF-3.1 ER-164
angular distribution for (n,n^11)
JEFF-3.1 ER-164
angular distribution for (n,n*12)
JEFF-3.1 ER-164
angular distribution for (n,n*13)
JEFF-3.1 ER-164
angular distribution for (n,n*14)
JEFF-3.1 ER-164
angular distribution for (n,n^*15)
JEFF-3.1 ER-164
angular distribution for (n,n*16)
JEFF-3.1 ER-164
angular distribution for (n,n*c)
JEFF-3.1 ER-164
Neutron emission for (n,2n)
JEFF-3.1 ER-164
Neutron emission for (n,3n)
JEFF-3.1 ER-164
Neutron emission for (n,n*)a
JEFF-3.1 ER-164
Neutron emission for \((n, n^*)p\)
JEFF-3.1 ER-164
Neutron emission for (n,n*c)
JEFF-3.1 ER-164
Photon emission for (n,2n)
JEFF-3.1 ER-164
Photon emission for (n,3n)
JEFF-3.1 ER-164
Photon emission for (n,n*c)
JEFF-3.1 ER-164
Photon emission for (n,gma)
JEFF-3.1 ER-164
Photon emission for (n,p)
Photon emission for (n,a)
JEFF-3.1 ER-164
thermal capture photon spectrum

Graph showing the thermal capture photon spectrum with Gamma Energy (MeV) on the x-axis and Gamma Prod (barns/MeV) on the y-axis. The graph is on a log-log scale, with the y-axis ranging from $10^{-1}$ to $10^2$. The x-axis ranges from 0 to 8 MeV.
JEFF-3.1 ER-164
14 MeV photon spectrum

Gamma Energy (MeV)

Gamma Prod (barns/MeV)