JEFF-3.1 HF-180
resonance total cross section

Energy (MeV) 10\(^{-5}\) - 10\(^{-4}\)
Cross section (barns) 10\(^{-1}\) - 10\(^{4}\)

total
JEFF-3.1 HF-180
resonance total cross section

![Graph showing the total cross section as a function of energy. The x-axis represents energy in MeV, ranging from 10^0 to 10^1. The y-axis represents cross section in barns, ranging from 10^-1 to 10^0. The graph shows a decrease in cross section with increasing energy. The line is labeled “total.”]
JEFF-3.1 HF-180
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
JEFF-3.1 HF-180
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
JEFF-3.1 HF-180
resonance absorption cross sections

Energy (MeV)

Cross section (barns)
JEFF-3.1 HF-180
resonance absorption cross sections

![Graph showing resonance absorption cross sections for JEFF-3.1 HF-180. The x-axis represents energy in MeV, ranging from $10^{-1}$ to $10^0$. The y-axis represents cross section in barns, ranging from $10^{-1}$ to $10^0$. The line on the graph represents the capture cross section.]
JEFF-3.1 HF-180 resonance absorption cross sections

Cross section (barns)

Energy (MeV)
JEFF-3.1 HF-180
UR total cross section

Energy (MeV)

Cross section (barns)

- Inf. Dil.
- 100 b
- 1 b

Energy (MeV)
JEFF-3.1 HF-180
UR capture cross section

Cross section (barns) vs Energy (MeV) graph showing the cross section values for Inf. Dil., 100 b, and 1 b.
JEFF-3.1 HF-180
Heating

Energy (MeV)

Heating (MeV/reaction)

Energy (MeV)
JEFF-3.1 HF-180
Non-threshold reactions

Energy (MeV)

Cross section (barns)

(n,gma)
JEFF-3.1 HF-180
Principal cross sections

Energy (MeV)

Cross section (barns)

- total
- absorption
- elastic
- gamma production

Energy (MeV)
JEFF-3.1 HF-180
Non-threshold reactions

Energy (MeV)

Cross section (barns)

(n,γma)
JEFF-3.1 HF-180
angular distribution for elastic
JEFF-3.1 HF-180
angular distribution for (n,n*1)
JEFF-3.1 HF-180
angular distribution for (n,n^*2)
JEFF-3.1 HF-180
angular distribution for \((n,n^*3)\)
JEFF-3.1 HF-180
angular distribution for (n,n*4)
JEFF-3.1 HF-180
angular distribution for (n,n*5)
JEFF-3.1 HF-180
angular distribution for (n,n^*6)
JEFF-3.1 HF-180
angular distribution for (n,n*7)
JEFF-3.1 HF-180
angular distribution for (n,n*8)
JEFF-3.1 HF-180
angular distribution for (n,n*9)
JEFF-3.1 HF-180
angular distribution for (n,n*10)
JEFF-3.1 HF-180
angular distribution for (n,n*11)
JEFF-3.1 HF-180
Neutron emission for (n,2n)
JEFF-3.1 HF-180
Neutron emission for \((n,3n)\)
JEFF-3.1 HF-180
Photon emission for (n,2n)
JEFF-3.1 HF-180
Photon emission for (n,3n)
JEFF-3.1 HF-180
Photon emission for (n,n*c)
JEFF-3.1 HF-180
Photon emission for (n,gma)
JEFF-3.1 HF-180
Photon emission for (n,p)
JEFF-3.1 HF-180
Photon emission for (n,a)
JEFF-3.1 HF-180 thermal capture photon spectrum