JEFF-3.1 CO-59
Principal cross sections

Energy (MeV)

Cross section (barns)

- total
- absorption
- elastic
- gamma production

Energy (MeV)
JEFF-3.1 CO-59
resonance total cross section

Cross section (barns)

Energy (MeV)
JEFF-3.1 CO-59
resonance total cross section

Energy (MeV)

Cross section (barns)

10^0

10^-3

10^-2
JEFF-3.1 CO-59
resonance total cross section

Energy (MeV) vs. Cross section (barns)
JEFF-3.1 CO-59
resonance total cross section
JEFF-3.1 CO-59
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture
JEFF-3.1 CO-59
resonance absorption cross sections
JEFF-3.1 CO-59
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
JEFF-3.1 CO-59
resonance absorption cross sections

Capture cross section

Energy (MeV) vs. Cross section (barns)
JEFF-3.1 CO-59
resonance absorption cross sections

![Graph showing resonance absorption cross sections for capture. The x-axis represents energy (MeV) ranging from $10^0$ to $10^1$, and the y-axis represents cross section (barns) ranging from $10^{-2}$ to $10^{-3}$. The graph shows a decreasing trend in cross section with increasing energy.]
JEFF-3.1 CO-59
Principal cross sections

Energy (MeV)

Cross section (barns)

- total
- absorption
- elastic
- gamma production

Energy (MeV)
JEFF-3.1 CO-59

Heating

Heating (MeV/reaction)

Energy (MeV)
JEFF-3.1 CO-59
Non-threshold reactions

Cross section (barns)

Energy (MeV)
JEFF-3.1 CO-59
angular distribution for elastic

Prob/Cos

10^-1
10^0
10^1

15
10
5

Cosine
-1.0 -0.5 0.0 0.5 1.0

Energy (MeV)
20
15
10
5

1.0 0.5 0.0 0.5 1.0
JEFF-3.1 CO-59
angular distribution for (n,2n)
JEFF-3.1 CO-59
angular distribution for (n,n*)a
JEFF-3.1 CO-59
angular distribution for (n,n*)p
JEFF-3.1 CO-59
angular distribution for (n,n*)d
JEFF-3.1 CO-59
angular distribution for (n,n*)t
JEFF-3.1 CO-59
angular distribution for (n,n*1)
JEFF-3.1 CO-59
angular distribution for (n,n*2)
JEFF-3.1 CO-59
angular distribution for (n,n^3)
JEFF-3.1 CO-59
angular distribution for (n,n*4)
JEFF-3.1 CO-59
angular distribution for (n,n*5)
JEFF-3.1 CO-59
angular distribution for \((n,n^*6)\)
JEFF-3.1 CO-59
angular distribution for (n,n*7)
JEFF-3.1 CO-59
angular distribution for (n,n*8)
JEFF-3.1 CO-59
angular distribution for (n,n*9)
JEFF-3.1 CO-59
angular distribution for (n,n*10)
JEFF-3.1 CO-59
angular distribution for (n,n*11)
JEFF-3.1 CO-59
angular distribution for (n,n*12)
JEFF-3.1 CO-59
angular distribution for (n,n^*13)
JEFF-3.1 CO-59
angular distribution for (n,n*14)
angular distribution for (n,n*15)
JEFF-3.1 CO-59
angular distribution for (n,n*16)
JEFF-3.1 CO-59
angular distribution for (n,n*17)
JEFF-3.1 CO-59
angular distribution for (n,n*18)
JEFF-3.1 CO-59
angular distribution for (n,n*19)
JEFF-3.1 CO-59
angular distribution for \((n,n^*c)\)
JEFF-3.1 CO-59
Neutron emission for \((n,2n)\)
JEFF-3.1 CO-59
Neutron emission for \((n,n^*)a\)
JEFF-3.1 CO-59
Neutron emission for (n,n*)p
JEFF-3.1 CO-59
Neutron emission for (n,n^c)
JEFF-3.1 CO-59
Photon emission for (n,gma)
Photon emission for nonelastic
JEFF-3.1 CO-59
thermal capture photon spectrum
JEFF-3.1 CO-59
14 MeV photon spectrum

Gamma Energy (MeV)

Gamma Prod (barns/MeV)