JEFF-3.0 Ni-58
resonance total cross section

Cross section (barns)

Energy (MeV)
JEFF-3.0 NI-58 resonance total cross section

Energy (MeV)

Cross section (barns)
JEFF-3.0 NI-58
resonance total cross section

Energy (MeV)

Cross section (barns)
JEFF-3.0 NI-58
resonance total cross section

Energy (MeV)

Cross section (barns)

10^0

10^0

10^1

10^0

10^1
JEFF-3.0 NI-58
resonance absorption cross sections

![Graph showing the relationship between energy (MeV) and cross section (barns). The graph indicates a decrease in cross section with increasing energy.]
JEFF-3.0 NI-58
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
JEFF-3.0 NI-58
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture
JEFF-3.0 NI-58
resonance absorption cross sections

Energy (MeV)

Cross section (barns)
JEFF-3.0 NI-58
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
JEFF-3.0 NI-58
Principal cross sections

Energy (MeV)

Cross section (barns)

- total
- absorption
- elastic
- gamma production

Energy (MeV)
JEFF-3.0 NI-58
Non-threshold reactions

Energy (MeV)

Cross section (barns)

(n,gma)

(n,a)
JEFF-3.0 NI-58
Inelastic levels

Cross section (barns)

Energy (MeV)

(n,n*1)
(n,n*2)
(n,n*3)
(n,n*4)
(n,n*5)
JEFF-3.0 NI-58
angular distribution for elastic
JEFF-3.0 NI-58
angular distribution for (n,n*1)
JEFF-3.0 NI-58
angular distribution for (n,n*2)
JEFF-3.0 NI-58
angular distribution for \((n,n^*3)\)
JEFF-3.0 NI-58
angular distribution for (n,n*6)
JEFF-3.0 NI-58
angular distribution for (n,n*7)
JEFF-3.0 NI-58
Neutron emission for \((n,2n)\)
JEFF-3.0 NI-58
Neutron emission for \((n,n^*)a\)
JEFF-3.0 NI-58
Neutron emission for \((n,n^*)p\)
JEFF-3.0 NI-58
Neutron emission for (n,n*c)
JEFF-3.0 Ni-58
Photon emission for (n,gma)
JEFF-3.0 NI-58
Photon emission for (n,2n)
JEFF-3.0 NI-58
Photon emission for (n,n*)a

Prob/MeV

$E_y \text{(MeV)}$

$E_n \text{(MeV)}$

$10^{-2}$

$10^{-1}$

$10^{0}$
JEFF-3.0 NI-58
Photon emission for (n,n*)p
JEFF-3.0 NI-58
Photon emission for (n,n\*c)
JEFF-3.0 NI-58
Photon emission for (n,p)
JEFF-3.0 NI-58
Photon emission for (n,a)
JEFF-3.0 NI-58
thermal capture photon spectrum
JEFF-3.0 Ni-58
14 MeV photon spectrum

Gamma Energy (MeV)

Gamma Prod (barns/MeV)
JEFF-3.0 NI-58
Recoil Heating

Heating (MeV/reaction) vs. Energy (MeV)

- Recoil heating
JEFF-3.0 NI-58
Particle production cross sections

Energy (MeV)

Cross section (barns)

protons
alphas
JEFF-3.0 Ni-58
protons from \((n,n^*)p\)
JEFF-3.0 NI-58
protons from (n,p)
JEFF-3.0 NI-58
alphas from (n,n*)a
JEFF-3.0 NI-58
alphas from (n,a)