JEFF-3.1 NI-62
Principal cross sections

Cross section (barns)

Energy (MeV)

total
absorption
elastic
gamma production
JEFF-3.1 NI-62
resonance total cross section

Cross section (barns)

Energy (MeV)
JEFF-3.1 Ni-62
resonance total cross section

Energy (MeV)

Cross section (barns)

total
JEFF-3.1 NI-62
resonance total cross section

Energy (MeV)

Cross section (barns)

total
JEFF-3.1 NI-62
resonance absorption cross sections

![Graph showing the cross section (barns) as a function of energy (MeV). The graph has a logarithmic scale for both axes, with cross sections ranging from $10^{-2}$ to $10^{-1}$ barns and energies ranging from $10^{-3}$ to $10^{-2}$ MeV. The curve peaks in the middle region, indicating a resonance absorption cross section.]
JEFF-3.1 Ni-62
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

Capture
JEFF-3.1 NI-62
resonance absorption cross sections

Capture

Cross section (barns)

Energy (MeV)
JEFF-3.1 NI-62
resonance absorption cross sections

Energy (MeV)

Cross section (barns)
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Damage

Energy (MeV)

Damage (MeV-barns)

damage

10^{-11}  10^{-9}  10^{-7}  10^{-5}  10^{-3}  10^{-1}  10^{1}

10^{-5}  10^{-4}  10^{-3}  10^{-2}  10^{-1}

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Non-threshold reactions

Energy (MeV)

Cross section (barns)

(n,gma)
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Damage

Energy (MeV) vs. Damage (MeV-barns)

- Energy (MeV) ranges from 0 to 160.
- Damage (MeV-barns) ranges from 0 to 4,000,000 * 10^-3.

The graph shows a peak in damage at around 100 MeV, with a decrease at higher energies.
JEFF-3.1 NI-62
Non-threshold reactions

Energy (MeV)

Cross section (barns)

(n, gma)
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Threshold reactions

Energy (MeV)

Cross section (barns)

(n,xp)
(n,xd)
(n,xt)
(n,xa)

Energy (MeV)
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angular distribution for elastic
JEFF-3.1 NI-62
angular distribution for elastic
JEFF-3.1 NI-62
Neutron emission for (n,x)
JEFF-3.1 NI-62
Neutron emission for (n,2n)
JEFF-3.1 NI-62
Neutron emission for (n,n*)a

Energy (MeV) vs. Secondary Energy vs. Probability
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Neutron emission for \((n,n^*)p\)
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Neutron emission for (n,n*c)
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Photon emission for (n,gma)
JEFF-3.1 NI-62
Photon emission for (n,x)
JEFF-3.1 NI-62
Photon emission for (n,2n)
JEFF-3.1 NI-62
Photon emission for (n,n*)a
JEFF-3.1 Ni-62
Photon emission for (n,n*)p
JEFF-3.1 NI-62
Photon emission for (n,n*c)
JEFF-3.1 NI-62
Photon emission for (n,p)
JEFF-3.1 NI-62
Photon emission for \((n,a)\)
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thermal capture photon spectrum
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14 MeV photon spectrum
JEFF-3.1 NI-62
Particle heating contributions

MeV/collision

Energy (MeV)

- protons
- deuterons
- tritons
- alphas
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Recoil Heating

Heating (MeV/reaction) vs Energy (MeV)

- Recoil heating
JEFF-3.1 NI-62
Particle production cross sections

Energy (MeV) vs Cross section (barns)

- Protons
- Deuterons
- Tritons
- Alphas
JEFF-3.1 NI-62
protons from (n,x)
JEFF-3.1 Ni-62
protons from \((n,n^*)p\)
JEFF-3.1 Ni-62
protons from (n,p)
JEFF-3.1 NI-62
deuteron from (n,x)
JEFF-3.1 NI-62
tritons from (n,x)
JEFF-3.1 NI-62
alphas from (n,x)
JEFF-3.1 NI-62
alphas from (n,n*)a
JEFF-3.1 NI-62
alphas from (n,a)