JEFF-3.0 GD-152
Principal cross sections

Energy (MeV)

Cross section (barns)

- total
- absorption
- elastic
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resonance total cross section

Energy (MeV)

Cross section (barns)

- total
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resonance total cross section

Energy (MeV)

Cross section (barns)

total
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resonance total cross section

Energy (MeV)

Cross section (barns)

total
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resonance total cross section

Cross section (barns)

Energy (MeV)
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resonance total cross section

Cross section (barns) vs. Energy (MeV)
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resonance absorption cross sections

Cross section (barns)

Energy (MeV)
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resonance absorption cross sections

Cross section (barns)

Energy (MeV)
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resonance absorption cross sections

Cross section (barns)

Energy (MeV)
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resonance absorption cross sections

Cross section (barns)

Energy (MeV)
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resonance absorption cross sections

Cross section (barns)

Energy (MeV)
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Non-threshold reactions

Energy (MeV) vs. Cross section (barns)

- Black line: (n,gma)
- Red line: (n,a)
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Non-threshold reactions

![Graph showing energy vs. cross section for (n,gamma) and (n,a) reactions.]
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Inelastic levels

![Graph showing cross section vs energy for inelastic levels. The x-axis represents energy in MeV, ranging from 0 to 20. The y-axis represents cross section in barns, ranging from 0 to 6*10^-3. Five distinct curves are plotted, each representing a different inelastic level: (n,n*21), (n,n*22), (n,n*23), (n,n*24), and (n,n*25). The curves peak at different energies, with (n,n*21) peaking around 2 MeV, (n,n*22) around 6 MeV, (n,n*23) around 12 MeV, (n,n*24) around 18 MeV, and (n,n*25) peaking at higher energies.](image-url)
Inelastic levels

Cross section (barns)

Energy (MeV)

(n,n*26)
(n,n*27)
(n,n*28)
(n,n*29)
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Threshold reactions

Energy (MeV)

Cross section (barns)

(n,he3)
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angular distribution for elastic
JEFF-3.0 GD-152
angular distribution for (n,2n)
JEFF-3.0 GD-152
angular distribution for (n,3n)
JEFF-3.0 GD-152
angular distribution for (n,n*)a

Prob/Cos

10^0

10^-1

10^-2

Cosine

0.0

-0.5

-1.0

0

5

10

15

20

Energy (MeV)
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angular distribution for \((n,n^*)p\)
JEFF-3.0 GD-152
angular distribution for \((n,n^*)d\)
JEFF-3.0 GD-152
angular distribution for (n,n*)t
JEFF-3.0 GD-152
angular distribution for (n,n*1)
JEFF-3.0 GD-152
angular distribution for (n,n*2)
JEFF-3.0 GD-152
angular distribution for \((n,n^*3)\)
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angular distribution for \((n,n^*4)\)
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angular distribution for (n,n*5)
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angular distribution for (n,n*6)
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angular distribution for (n,n*7)
JEFF-3.0 GD-152
angular distribution for (n,n*8)
JEFF-3.0 GD-152
angular distribution for (n,n*9)
JEFF-3.0 GD-152
angular distribution for (n,n*10)
JEFF-3.0 GD-152
angular distribution for (n,n*11)
JEFF-3.0 GD-152
angular distribution for (n,n*12)
JEFF-3.0 GD-152
angular distribution for (n,n*13)
JEFF-3.0 GD-152
angular distribution for \((n,n'14)\)
JEFF-3.0 GD-152
angular distribution for $(n,n^*15)$
JEFF-3.0 GD-152
angular distribution for (n,n*16)
JEFF-3.0 GD-152
angular distribution for (n,n*17)
JEFF-3.0 GD-152
angular distribution for (n,n*18)
JEFF-3.0 GD-152
angular distribution for (n,n*19)
JEFF-3.0 GD-152
angular distribution for (n,n*20)
JEFF-3.0 GD-152
angular distribution for (n,n*21)
JEFF-3.0 GD-152
angular distribution for (n,n*22)
JEFF-3.0 GD-152
angular distribution for (n,n*23)
JEFF-3.0 GD-152
angular distribution for (n,n*24)
JEFF-3.0 GD-152
angular distribution for (n,n*26)
JEFF-3.0 GD-152
angular distribution for (n,n*27)
JEFF-3.0 GD-152
angular distribution for (n,n*28)
JEFF-3.0 GD-152
angular distribution for (n,n*29)
JEFF-3.0 GD-152
angular distribution for (n,n*c)
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Neutron emission for (n,2n)
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Neutron emission for (n,3n)
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Neutron emission for \((n,n^*)a\)
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Neutron emission for \((n,n^*)p\)
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Neutron emission for (n,n*)d

Energy (MeV)

Prob/MeV

Sec. Energy

1 2 3 4 13 14 15 16 17 18 19 20

10^-3 10^-1 10^0 10^1
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Neutron emission for (n,n*)t
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Neutron emission for \((n,n^*c)\)