JENDL-3.3 TI-48
Principal cross sections

![Graph showing cross sections vs energy](image_url)
JENDL-3.3 TI-48
resonance total cross section

Energy (MeV)

Cross section (barns)

10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2}

10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2}
JENDL-3.3 TI-48 resonance total cross section

![Graph showing the energy (MeV) vs. cross section (barns) for TI-48 resonance total cross section. The graph has a logarithmic scale on both axes, ranging from 10^{-1} to 10^0 for energy and from 10^{-1} to 10^1 for cross section. The graph includes a curve labeled 'total.']
JENDL-3.3 TI-48
resonance total cross section
JENDL-3.3 TI-48
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

- Capture
JENDL-3.3 TI-48
resonance absorption cross sections

Cross section (barns) vs. Energy (MeV)
JENDL-3.3 TI-48
resonance absorption cross sections

Energy (MeV)

Cross section (barns)
JENDL-3.3 TI-48
resonance absorption cross sections
JENDL-3.3 TI-48
Heating

Energy (MeV)

Heating (MeV/reaction)

heating

10^{-11} 10^{-10} 10^{-9} 10^{-8} 10^{-7} 10^{-6} 10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1}

10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1}
JENDL-3.3 TI-48
Principal cross sections

Energy (MeV)

Cross section (barns)

total
absorption
elastic
gamma production
JENDL-3.3 TI-48 Heating

Heating (MeV/reaction) vs Energy (MeV)

- Heating increases significantly as energy increases.
- There is a steep rise in heating from approximately 5 MeV to 15 MeV.

Note: The heating is represented in units of 10^-3 MeV/reaction.
JENDL-3.3 TI-48
Threshold reactions

Cross section (barns)

Energy (MeV)
JENDL-3.3 TI-48
angular distribution for elastic
JENDL-3.3 TI-48
angular distribution for (n,n*1)
JENDL-3.3 TI-48
angular distribution for (n,n*2)
JENDL-3.3 TI-48
angular distribution for (n,n*3)
JENDL-3.3 TI-48
angular distribution for (n,n*4)
JENDL-3.3 TI-48
angular distribution for \((n,n^*5)\)
JENDL-3.3 TI-48
angular distribution for \( (n, n^*6) \)
JENDL-3.3 TI-48
angular distribution for (n,n*7)
JENDL-3.3 TI-48
angular distribution for (n,n*8)
JENDL-3.3 TI-48
angular distribution for (n,n^9)
JENDL-3.3 TI-48
angular distribution for (n,n*10)
JENDL-3.3 TI-48
angular distribution for (n,n*11)
JENDL-3.3 TI-48
angular distribution for \((n,n^*12)\)
JENDL-3.3 TI-48
angular distribution for (n,n*13)
JENDL-3.3 TI-48
angular distribution for (n,n*14)
JENDL-3.3 TI-48
angular distribution for \((n,n^*15)\)
JENDL-3.3 TI-48
angular distribution for (n,n\*16)
JENDL-3.3 TI-48
angular distribution for (n,n*17)
JENDL-3.3 TI-48
angular distribution for (n,n^*18)
JENDL-3.3 TI-48
Neutron emission for (n,2n)
JENDL-3.3 TI-48
Neutron emission for \((n,n^*)a\)
JENDL-3.3 TI-48
Neutron emission for (n,n*)p
JENDL-3.3 TI-48
Photon emission for (n,2n)
JENDL-3.3 TI-48
Photon emission for (n,n*)a
JENDL-3.3 TI-48
Photon emission for (n,n*)p
JENDL-3.3 TI-48
Photon emission for (n,n*c)
JENDL-3.3 TI-48
Photon emission for (n,gma)
JENDL-3.3 TI-48
Photon emission for (n,p)
JENDL-3.3 TI-48
Photon emission for (n,d)
JENDL-3.3 TI-48
Photon emission for (n,a)
JENDL-3.3 TI-48
14 MeV photon spectrum
JENDL-3.3 TI-48
Particle heating contributions

Energy (MeV)

MeV/collision

<table>
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<tr>
<th>Energy (MeV)</th>
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- protons
- alphas
JENDL-3.3 TI-48
Particle production cross sections

Energy (MeV)

Cross section (barns)

protons

alphas
JENDL-3.3 TI-48
protons from (n,xp)
JENDL-3.3 TI-48
alphas from (n,xa)