ENDF/B-VI PD-106E
Heating

Heating (MeV/reaction)

Energy (MeV)
ENDF/B-VI PD-106E
Damage

Energy (MeV)

Damage (MeV-barns)
ENDF/B-VI PD-106E
Inelastic levels

Energy (MeV)

Cross section (barns)

(n,n*1)
(n,n*2)
(n,n*3)
(n,n*4)
(n,n*5)

Energy (MeV)
ENDF/B-VI PD-106E
Inelastic levels

Cross section (barns) vs. Energy (MeV) graph showing cross sections for different inelastic levels:
- (n,n*6)
- (n,n*7)
- (n,n*8)
- (n,n*9)
- (n,n*10)
ENDF/B-VI PD-106E
Threshold reactions

Cross section (barns)

Energy (MeV)
ENDF/B-VI PD-106E
Threshold reactions

Energy (MeV)

Cross section (barns)

*(n,d*9)
*(n,d*10)
*(n,d*11)
*(n,d*12)
*(n,d*13)
ENDF/B-VI PD-106E
Threshold reactions

Energy (MeV) vs Cross section (barns)

*10^-6

Cross section (barns)

Enery (MeV)

Reactions:
- (n,d*14)
- (n,d*15)
- (n,d*16)
- (n,d*17)
- (n,d*18)
ENDF/B-VI PD-106E
Threshold reactions

Cross section (barns) vs. Energy (MeV)

- (n,d*19)
- (n,d*c)
ENDF/B-VI PD-106E
angular distribution for elastic
ENDF/B-VI PD-106E
angular distribution for (n,n*1)
ENDF/B-VI PD-106E
angular distribution for (n,n*2)
ENDF/B-VI PD-106E
angular distribution for (n,n*3)
ENDF/B-VI PD-106E
angular distribution for (n,n^*)
ENDF/B-VI PD-106E
angular distribution for (n,n*5)
ENDF/B-VI PD-106E
angular distribution for \((n,n^*7)\)
ENDF/B-VI PD-106E
angular distribution for (n,n*8)
ENDF/B-VI PD-106E
angular distribution for (n,n*9)
ENDF/B-VI PD-106E
angular distribution for (n,n*10)
ENDF/B-VI PD-106E
angular distribution for (n,n*11)
ENDF/B-VI PD-106E
angular distribution for (n,n^12)
ENDF/B-VI PD-106E
angular distribution for (n,n*13)
ENDF/B-VI PD-106E
angular distribution for (n,n\star14)
ENDF/B-VI PD-106E
angular distribution for (n,n*15)
ENDF/B-VI PD-106E
angular distribution for (n,n*16)
ENDF/B-VI PD-106E
angular distribution for (n,n^18)
ENDF/B-VI PD-106E
angular distribution for (n,n*19)
ENDF/B-VI PD-106E
angular distribution for (n,n*20)
ENDF/B-VI PD-106E
angular distribution for (n, n*21)
ENDF/B-VI PD-106E
angular distribution for (n,n*22)
ENDF/B-VI PD-106E
angular distribution for (n,n*23)
ENDF/B-VI PD-106E
angular distribution for (n,n*24)
ENDF/B-VI PD-106E
Neutron emission for (n,2n)
ENDF/B-VI PD-106E
Neutron emission for (n,3n)
ENDF/B-VI PD-106E
Neutron emission for (n,n*)a
ENDF/B-VI PD-106E
Neutron emission for (n,2n)a
ENDF/B-VI PD-106E
Neutron emission for (n,n*)p
ENDF/B-VI PD-106E
Neutron emission for \((n, n^*)d\)
ENDF/B-VI PD-106E
Neutron emission for (n,4n)
ENDF/B-VI PD-106E
Neutron emission for (n,2np)
ENDF/B-VI PD-106E
Neutron emission for \((n,n^*c)\)
ENDF/B-VI PD-106E
Photon emission for (n,2n)
ENDF/B-VI PD-106E
Photon emission for (n,3n)
ENDF/B-VI PD-106E
Photon emission for (n,2n)a
ENDF/B-VI PD-106E
Photon emission for (n,n*)p
ENDF/B-VI PD-106E
Photon emission for (n,n*)d
ENDF/B-VI PD-106E
Photon emission for (n,4n)
ENDF/B-VI PD-106E
Photon emission for (n,2np)
ENDF/B-VI PD-106E
Photon emission for (n,n*1)
ENDF/B-VI PD-106E
Photon emission for (n,n*2)
ENDF/B-VI PD-106E
Photon emission for (n,n*3)
ENDF/B-VI PD-106E
Photon emission for \((n,n^*4)\)
ENDF/B-VI PD-106E
Photon emission for (n,n*5)
ENDF/B-VI PD-106E
Photon emission for (n,n*6)
ENDF/B-VI PD-106E
Photon emission for (n,n*7)
ENDF/B-VI PD-106E
Photon emission for (n,n*9)
ENDF/B-VI PD-106E
Photon emission for \((n,n^\ast10)\)
ENDF/B-VI PD-106E
Photon emission for \((n,n'11)\)
ENDF/B-VI PD-106E
Photon emission for (n,n*12)
ENDF/B-VI PD-106E
Photon emission for (n,n*13)
ENDF/B-VI PD-106E
Photon emission for (n,n*14)
ENDF/B-VI PD-106E
Photon emission for (n,n^15)
Photon emission for (n,n\*16)
ENDF/B-VI PD-106E
Photon emission for (n,n*17)
ENDF/B-VI PD-106E
Photon emission for (n,n*18)
ENDF/B-VI PD-106E
Photon emission for (n,n*19)
ENDF/B-VI PD-106E
Photon emission for (n,n*20)
ENDF/B-VI PD-106E
Photon emission for \((n,n^*21)\)
Photon emission for (n,n*22)
ENDF/B-VI PD-106E
Photon emission for (n,n*23)
ENDF/B-VI PD-106E
Photon emission for (n,n*c)
ENDF/B-VI PD-106E
Photon emission for (n,p*1)
ENDF/B-VI PD-106E
Photon emission for \( (n,d^*1) \)

\[
\text{Prob/MeV} = 10^0 \times 10^{-2}
\]

\[
E_\gamma \text{ (MeV)} \quad E_n \text{ (MeV)}
\]

\[
10 \quad 15 \quad 20 \quad 25 \quad 30
\]

\[
1.4 \times 10^{-3}
\]
ENDF/B-VI PD-106E
Photon emission for (n,d*2)
ENDF/B-VI PD-106E
Photon emission for (n,d*3)
ENDF/B-VI PD-106E
Photon emission for (n,d$^*$4)
Photon emission for (n,d*5)
ENDF/B-VI PD-106E
Photon emission for \((n,d^*6)\)
ENDF/B-VI PD-106E
Photon emission for (n,d*7)
ENDF/B-VI PD-106E
Photon emission for (n,d*8)
ENDF/B-VI PD-106E
Photon emission for \((n,d^9)\)
ENDF/B-VI PD-106E
Photon emission for (n,d*10)
ENDF/B-VI PD-106E
Photon emission for (n,d*11)
Photon emission for (n,d*12)
ENDF/B-VI PD-106E
Photon emission for (n,d*13)
ENDF/B-VI PD-106E
Photon emission for (n,d*14)
ENDF/B-VI PD-106E
Photon emission for (n,d*15)
ENDF/B-VI PD-106E
Photon emission for (n,d*16)
ENDF/B-VI PD-106E
Photon emission for (n,d*17)
ENDF/B-VI PD-106E
Photon emission for (n,d*18)
ENDF/B-VI PD-106E
Photon emission for (n,d*c)
ENDF/B-VI PD-106E
Photon emission for (n,a*1)
ENDF/B-VI PD-106E
Photon emission for (n,a*2)
ENDF/B-VI PD-106E
Photon emission for (n,a^3)
Photon emission for \((n,a^*5)\)
ENDF/B-VI PD-106E
Photon emission for (n,a*7)
ENDF/B-VI PD-106E
Photon emission for (n,a*8)
ENDF/B-VI PD-106E
Photon emission for (n,a*9)
ENDF/B-VI PD-106E
Photon emission for $(n,a^{*10})$
ENDF/B-VI PD-106E
Photon emission for (n,a\*11)
ENDF/B-VI PD-106E
Photon emission for (n,a*12)
ENDF/B-VI PD-106E
Photon emission for (n,a*13)
ENDF/B-VI PD-106E
Photon emission for (n,a*14)
ENDF/B-VI PD-106E
Photon emission for (n,a*15)
ENDF/B-VI PD-106E
Photon emission for (n,a*16)
ENDF/B-VI PD-106E
Photon emission for (n,a*17)
ENDF/B-VI PD-106E
Photon emission for (n,a*18)
ENDF/B-VI PD-106E
Photon emission for (n,a*19)
ENDF/B-VI PD-106E
Photon emission for \((n,a^*c)\)
ENDF/B-VI PD-106E
thermal capture photon spectrum

Gamma Energy (MeV)

Gamma Prod (barns/MeV)
ENDF/B-VI PD-106E
14 MeV photon spectrum
ENDF/B-VI PD-106E
Particle production cross sections

**Energy (MeV)**

**Cross section (barns)**

- Protons
- Deuterons
- Alphas
ENDF/B-VI PD-106E
protons from \((n,n^*)p\)
ENDF/B-VI PD-106E
protons from (n,2np)
ENDF/B-VI PD-106E
angular distribution for (n,p*0) proton
ENDF/B-VI PD-106E
angular distribution for (n,p*1) proton
ENDF/B-VI PD-106E
protons from (n,p*c)
ENDF/B-VI PD-106E
deuterons from (n,n*)d
ENDF/B-VI PD-106E
angular distribution for (n,d^0) deuteron
ENDF/B-VI PD-106E
angular distribution for \((n,d^*1)\) deuteron
ENDF/B-VI PD-106E
angular distribution for (n,d*2) deuteron
ENDF/B-VI PD-106E
angular distribution for \((n,d^*3)\) deuteron
ENDF/B-VI PD-106E
angular distribution for (n,d*4) deuteron
ENDF/B-VI PD-106E
angular distribution for (n,d*5) deuteron
ENDF/B-VI PD-106E
angular distribution for (n,d*6) deuteron
ENDF/B-VI PD-106E
angular distribution for (n,d*7) deuteron
ENDF/B-VI PD-106E
angular distribution for (n,d*8) deuteron
ENDF/B-VI PD-106E
angular distribution for (n,d*9) deuteron
ENDF/B-VI PD-106E
angular distribution for (n,d*10) deuteron
ENDF/B-VI PD-106E
angular distribution for (n,d*11) deuteron
ENDF/B-VI PD-106E
angular distribution for (n,d*12) deuteron
ENDF/B-VI PD-106E
angular distribution for (n,d*13) deuteron
ENDF/B-VI PD-106E
angular distribution for (n,d*14) deuteron
ENDF/B-VI PD-106E
angular distribution for (n,d*15) deuteron
ENDF/B-VI PD-106E
angular distribution for (n,d*16) deuteron
ENDF/B-VI PD-106E
angular distribution for (n,d*17) deuteron
ENDF/B-VI PD-106E
angular distribution for (n,d*18) deuteron
ENDF/B-VI PD-106E
angular distribution for (n,d*19) deuteron
ENDF/B-VI PD-106E
deuterons from (n,d*c)
ENDF/B-VI PD-106E
angular distribution for (n,a*0) alpha
ENDF/B-VI PD-106E
angular distribution for (n,a*1) alpha
ENDF/B-VI PD-106E
angular distribution for (n,a*2) alpha

Energy (MeV)

Cosine

Prob/Cos
ENDF/B-VI PD-106E
angular distribution for (n,a*3) alpha
ENDF/B-VI PD-106E
angular distribution for (n,a*4) alpha
ENDF/B-VI PD-106E
angular distribution for (n,a*5) alpha
ENDF/B-VI PD-106E
angular distribution for \((n, a^*6)\) alpha
ENDF/B-VI PD-106E
angular distribution for (n,a^7) alpha
ENDF/B-VI PD-106E
angular distribution for (n,a*8) alpha
ENDF/B-VI PD-106E
angular distribution for (n,a*9) alpha
ENDF/B-VI PD-106E
angular distribution for (n,α*10) alpha
ENDF/B-VI PD-106E
angular distribution for (n,a*11) alpha
ENDF/B-VI PD-106E
angular distribution for (n,a*13) alpha
ENDF/B-VI PD-106E
angular distribution for (n,a^14) alpha

<table>
<thead>
<tr>
<th>Energy (MeV)</th>
<th>Prob/Cos</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0</td>
<td>1.0</td>
</tr>
<tr>
<td>0.5</td>
<td>1.0</td>
</tr>
<tr>
<td>1.0</td>
<td>1.0</td>
</tr>
</tbody>
</table>

Energy distribution with cosine probability on a logarithmic scale.
ENDF/B-VI PD-106E
angular distribution for (n,a*15) alpha
ENDF/B-VI PD-106E
angular distribution for (n,a*16) alpha
ENDF/B-VI PD-106E
angular distribution for (n,a*17) alpha
ENDF/B-VI PD-106E
angular distribution for (n,a*18) alpha
ENDF/B-VI PD-106E
angular distribution for \((n,a^*19)\) alpha
ENDF/B-VI PD-106E
alphas from (n,a*c)