ENDF/B-VII.1 CS-133
resonance total cross section

Energy (MeV)

Cross section (barns)

10^{-6} 10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^1 10^2 10^3 10^4

10^{-6} 10^{-5}
ENDF/B-VII.1 CS-133
resonance total cross section

Energy (MeV)

Cross section (barns)

Graph showing the resonance total cross section for CS-133.
ENDF/B-VII.1 CS-133
resonance total cross section

Cross section (barns)

Energy (MeV)
ENDF/B-VII.1 CS-133
resonance total cross section

![Graph showing the resonance total cross section for CS-133.]
ENDF/B-VII.1 CS-133
resonance absorption cross sections

Capture cross section as a function of energy (MeV).
ENDF/B-VII.1 CS-133
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
ENDF/B-VII.1 CS-133
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture
ENDF/B-VII.1 CS-133
resonance absorption cross sections

Capture
ENDF/B-VII.1 CS-133 UR total cross section

Energy (MeV)

Cross section (barns)

Inf. Dil. 100 b 1 b

10^1

10^{-2}

10^{-1}
ENDF/B-VII.1 CS-133
Non-threshold reactions

Energy (MeV)

Cross section (barns)

\( (n,\gamma m\alpha) \)
ENDF/B-VII.1 CS-133
Principal cross sections

Energy (MeV) vs. Cross section (barns) graph with lines for total, absorption, elastic, and gamma production.
ENDF/B-VII.1 CS-133

Heating

Heating (MeV/reaction) vs. Energy (MeV)
ENDF/B-VII.1 CS-133

Damage

Energy (MeV)

Damage (MeV-barns)
ENDF/B-VII.1 CS-133
Non-threshold reactions

Energy (MeV)

Cross section (barns)
ENDF/B-VII.1 CS-133
Inelastic levels

Energy (MeV)

Cross section (barns)

(n,n*11)
(n,n*12)
(n,n*13)
(n,n*14)
ENDF/B-VII.1 CS-133
Threshold reactions

Graph showing cross section (barns) versus energy (MeV) for various reactions:
- (n,2n)
- (n,3n)
- (n,n*)a
- (n,2n)a
- (n,n*)p

Energy range: 6.0 to 20.0 MeV
Cross section range: 0.0 to 1.8 barns
ENDF/B-VII.1 CS-133
Threshold reactions

Cross section (barns)

Energy (MeV)

- (n,2np)
- (n,n*γ)
- (n,p)
- (n,a)
ENDF/B-VII.1 CS-133
Threshold reactions

Cross section (barns) vs. Energy (MeV)

- (n,xp)
- (n,xa)
- (n,p*0)
- (n,p*1)
- (n,p*2)
ENDF/B-VII.1 CS-133
Threshold reactions

Cross section (barns) vs. Energy (MeV) for various (n,a) reactions.
 ENDF/B-VII.1 CS-133
 Threshold reactions

Cross section (barns)

Energy (MeV)

Graph showing the cross section of threshold reactions for CS-133 as a function of energy (MeV). The graph includes multiple curves representing different reaction types, such as (n,a*10), (n,a*11), (n,a*12), (n,a*13), and (n,a*14). The y-axis represents the cross section in barns, while the x-axis represents energy in MeV.
ENDF/B-VII.1 CS-133
Threshold reactions

Cross section (barns) vs. Energy (MeV)

The graph shows the threshold reactions for CS-133 in ENDF/B-VII.1, with cross section data plotted against energy in MeV.
ENDF/B-VII.1 CS-133
angular distribution for elastic
ENDF/B-VII.1 CS-133
angular distribution for (n,n*1)
ENDF/B-VII.1 CS-133
angular distribution for (n,n*2)
ENDF/B-VII.1 CS-133
angular distribution for (n,n*3)
ENDF/B-VII.1 CS-133
angular distribution for (n,n*4)
ENDF/B-VII.1 CS-133
angular distribution for (n,n*5)
ENDF/B-VII.1 CS-133
angular distribution for (n,n*7)
ENDF/B-VII.1 CS-133
angular distribution for (n,n*8)
ENDF/B-VII.1 CS-133
angular distribution for (n,n*9)
ENDF/B-VII.1 CS-133
angular distribution for (n,n*10)
ENDF/B-VII.1 CS-133
angular distribution for (n,n*11)
ENDF/B-VII.1 CS-133
angular distribution for (n,n*12)
ENDF/B-VII.1 CS-133
angular distribution for (n,n*13)
ENDF/B-VII.1 CS-133
angular distribution for (n,n*14)
ENDF/B-VII.1 CS-133
Neutron emission for (n,2n)
ENDF/B-VII.1 CS-133
Neutron emission for (n,3n)
ENDF/B-VII.1 CS-133
Neutron emission for (n,n*)a
ENDF/B-VII.1 CS-133
Neutron emission for (n,2n)a
ENDF/B-VII.1 CS-133
Neutron emission for \( (n,n^*)p \)
ENDF/B-VII.1 CS-133
Neutron emission for (n,2np)
ENDF/B-VII.1 CS-133
Neutron emission for \((n,n^c)\)
ENDF/B-VII.1 CS-133
Photon emission for (n,2n)
ENDF/B-VII.1 CS-133
Photon emission for (n,3n)
ENDF/B-VII.1 CS-133
Photon emission for \((n,n^*)a\)
ENDF/B-VII.1 CS-133
Photon emission for (n,2n)a
ENDF/B-VII.1 CS-133
Photon emission for (n,n*)p
ENDF/B-VII.1 CS-133
Photon emission for (n,2np)
ENDF/B-VII.1 CS-133
Photon emission for (n,n*c)
ENDF/B-VII.1 CS-133
Photon emission for (n,gma)
ENDF/B-VII.1 CS-133
Photon emission for (n,p*c)
ENDF/B-VII.1 CS-133
Photon emission for (n,a*c)
ENDF/B-VII.1 CS-133 thermal capture photon spectrum
ENDF/B-VII.1 CS-133
14 MeV photon spectrum

Gamma Energy (MeV)

Gamma Prod (barns/MeV)
ENDF/B-VII.1 CS-133
Recoil Heating

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

- The graph shows the relationship between the energy of a reaction and the heating effect in MeV per reaction.
- The heating effect increases with energy, reaching a peak and then decreasing sharply near 15 MeV before rising again.

Note: The graph illustrates the recoil heating effect for the indicated isotopes and energy range.
ENDF/B-VII.1 CS-133
Particle production cross sections

Energy (MeV)

Cross section (barns)

protons
alphas
ENDF/B-VII.1 CS-133
protons from (n,n*)p
ENDF/B-VII.1 CS-133
angular distribution for (n,p*0) proton
ENDF/B-VII.1 CS-133
angular distribution for (n,p*1) proton
ENDF/B-VII.1 CS-133
angular distribution for \((n,p^*2)\) proton
ENDF/B-VII.1 CS-133
angular distribution for \((n,p^*3)\) proton
ENDF/B-VII.1 CS-133
angular distribution for (n,p*4) proton
ENDF/B-VII.1 CS-133
angular distribution for (n,p*5) proton
ENDF/B-VII.1 CS-133
angular distribution for (n,p*6) proton
ENDF/B-VII.1 CS-133
protons from (n,p*c)
ENDF/B-VII.1 CS-133
alphas from (n,n*)a
ENDF/B-VII.1 CS-133
alphas from (n,2n)a
ENDF/B-VII.1 CS-133
angular distribution for (n,a^0) alpha
ENDF/B-VII.1 CS-133
angular distribution for \((n,a^*1)\) alpha

Energy (MeV)

Cosine

Prob/Cos
ENDF/B-VII.1 CS-133
angular distribution for (n,a*2) alpha
ENDF/B-VII.1 CS-133
angular distribution for (n,a*3) alpha
ENDF/B-VII.1 CS-133
angular distribution for (n,a*4) alpha
ENDF/B-VII.1 CS-133
angular distribution for (n,a^5) alpha
ENDF/B-VII.1 CS-133
angular distribution for \((n, a^6)\) alpha
ENDF/B-VII.1 CS-133
angular distribution for (n,a^7) alpha
ENDF/B-VII.1 CS-133
angular distribution for (n,a*8) alpha
ENDF/B-VII.1 CS-133
angular distribution for (n,a*9) alpha
ENDF/B-VII.1 CS-133
angular distribution for (n,a*10) alpha
ENDF/B-VII.1 CS-133
angular distribution for (n,a*11) alpha
ENDF/B-VII.1 CS-133
angular distribution for (n,a*12) alpha
ENDF/B-VII.1 CS-133
angular distribution for (n,a*13) alpha
ENDF/B-VII.1 CS-133
angular distribution for (n,a*14) alpha
ENDF/B-VII.1 CS-133
alphas from (n,a*c)