ENDF/B-VII.1 IR-193
resonance total cross section

Energy (MeV)

Cross section (barns)

total
ENDF/B-VII.1 IR-193
resonance total cross section

Energy (MeV)

Cross section (barns)

10^4

10^3

10^2

10^1

10^{-5} 10^{-4}

Energy (MeV)
ENDF/B-VII.1 IR-193
resonance total cross section

Energy (MeV)

Cross section (barns)

- Energy range from $10^{-4}$ to $10^{-3}$ MeV
- Cross section range from $10^{-3}$ to $10^3$ barns

- Line labeled "total"
ENDF/B-VII.1 IR-193
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
ENDF/B-VII.1 IR-193
resonance absorption cross sections
ENDF/B-VII.1 IR-193
Heating

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

- Heating curve showing a sharp increase at higher energies.
- The curve has a peak at around 10^{-5} MeV, with a sharp下降 at lower energies.

The graph represents the heating data for ENDF/B-VII.1 IR-193, with energy ranging from 10^{-11} to 10^{1} MeV and heating values ranging from 10^{-6} to 10^{0}.
ENDF/B-VII.1 IR-193
Non-threshold reactions

Energy (MeV)

Cross section (barns)

(n,gma)
ENDF/B-VII.1 IR-193

Heating

Energy (MeV)

Heating (MeV/reaction)

heating
ENDF/B-VII.1 IR-193
Inelastic levels

Energy (MeV)

Cross section (barns)

(n,n*11)
(n,n*12)
(n,n*13)
(n,n*14)
(n,n*15)
ENDF/B-VII.1 IR-193
Inelastic levels

Cross section (barns) vs. Energy (MeV)

- (n,n*16)
- (n,n*17)
- (n,n*18)
- (n,n*19)
- (n,n*20)
ENDF/B-VII.1 IR-193
Inelastic levels

Energy (MeV) vs. Cross section (barns) plot for different inelastic levels:
- (n,n*26)
- (n,n*27)
- (n,n*28)
- (n,n*29)
- (n,n*30)

The graph shows the cross section as a function of energy for various inelastic levels, indicating the peak cross sections at different energies.
Inelastic levels

Cross section (barns) vs. Energy (MeV)

- Black: (n,n*36)
- Red: (n,n*37)
- Green: (n,n*38)
- Blue: (n,n*39)
ENDF/B-VII.1 IR-193
angular distribution for elastic
ENDF/B-VII.1 IR-193
angular distribution for (n,n*1)
ENDF/B-VII.1 IR-193
angular distribution for (n,n*2)
ENDF/B-VII.1 IR-193
angular distribution for \( (n,n^*3) \)
ENDF/B-VII.1 IR-193
angular distribution for (n,n*5)
ENDF/B-VII.1 IR-193
angular distribution for (n,n*6)
ENDF/B-VII.1 IR-193
angular distribution for (n,n*7)
ENDF/B-VII.1 IR-193
angular distribution for (n,n*8)
ENDF/B-VII.1 IR-193
angular distribution for \((n,n^*9)\)
ENDF/B-VII.1 IR-193
angular distribution for (n,n*10)
ENDF/B-VII.1 IR-193
angular distribution for (n,n*11)
ENDF/B-VII.1 IR-193
angular distribution for (n,n*12)
ENDF/B-VII.1 IR-193
angular distribution for (n,n*13)
ENDF/B-VII.1 IR-193
angular distribution for (n,n*14)
ENDF/B-VII.1 IR-193
angular distribution for (n,n*15)
ENDF/B-VII.1 IR-193
angular distribution for (n,n*16)
ENDF/B-VII.1 IR-193
angular distribution for (n,n^{*}17)
ENDF/B-VII.1 IR-193
angular distribution for (n,n*19)
ENDF/B-VII.1 IR-193
angular distribution for (n,n*20)

Energy (MeV)

Prob/Cos

Cosine -1.0 -0.5 0.0 0.5 1.0

10.0 10.1 10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 10.0
ENDF/B-VII.1 IR-193
angular distribution for (n,n*21)
ENDF/B-VII.1 IR-193
angular distribution for (n,n*22)
ENDF/B-VII.1 IR-193
angular distribution for (n,n*23)
ENDF/B-VII.1 IR-193
angular distribution for (n,n*24)
ENDF/B-VII.1 IR-193
angular distribution for (n,n*25)
ENDF/B-VII.1 IR-193
angular distribution for (n,n*26)
ENDF/B-VII.1 IR-193
angular distribution for (n,n*27)
ENDF/B-VII.1 IR-193
angular distribution for (n,n*28)
ENDF/B-VII.1 IR-193
angular distribution for \( (n,n^{*}29) \)
ENDF/B-VII.1 IR-193
angular distribution for (n,n*30)
ENDF/B-VII.1 IR-193
angular distribution for (n,n^*31)
ENDF/B-VII.1 IR-193
angular distribution for (n,n*32)
ENDF/B-VII.1 IR-193
angular distribution for (n,n*33)
ENDF/B-VII.1 IR-193
angular distribution for (n,n^34)
ENDF/B-VII.1 IR-193
angular distribution for (n,n*35)
ENDF/B-VII.1 IR-193
angular distribution for (n,n^{*}36)
ENDF/B-VII.1 IR-193
angular distribution for (n,n*37)
ENDF/B-VII.1 IR-193
angular distribution for (n,n*38)
ENDF/B-VII.1 IR-193
angular distribution for (n,n*39)
ENDF/B-VII.1 IR-193
Neutron emission for (n,2n)
ENDF/B-VII.1 IR-193
Neutron emission for $(n,3n)$
ENDF/B-VII.1 IR-193
Neutron emission for (n,n*)a
ENDF/B-VII.1 IR-193
Neutron emission for \((n,2n)a\)
ENDF/B-VII.1 IR-193
Neutron emission for (n,n*)p
ENDF/B-VII.1 IR-193
Neutron emission for (n,2np)
ENDF/B-VII.1 IR-193
Neutron emission for (n,n^c)
ENDF/B-VII.1 IR-193
Photon emission for (n,2n)
Photon emission for (n,3n)
ENDF/B-VII.1 IR-193
Photon emission for \((n,n^*)a\)
ENDF/B-VII.1 IR-193
Photon emission for (n,2n)a
ENDF/B-VII.1 IR-193
Photon emission for \((n,n^*)p\)
ENDF/B-VII.1 IR-193
Photon emission for (n,2np)
ENDF/B-VII.1 IR-193
Photon emission for \((n,n^*c)\)
ENDF/B-VII.1 IR-193
Photon emission for (n,gma)
ENDF/B-VII.1 IR-193
Photon emission for (n,p°c)
ENDF/B-VII.1 IR-193
Photon emission for (n,a*c)
ENDF/B-VII.1 IR-193
thermal capture photon spectrum

Gamma Energy (MeV)

Gamma Prod (barns/MeV)
ENDF/B-VII.1 IR-193
14 MeV photon spectrum

Gamma Energy (MeV)

Gamma Prod (barns/MeV)
Endf/B-VII.1 IR-193
Particle heating contributions

Energy (MeV)

MeV/collision

- protons
- alphas

Energy (MeV)
ENDF/B-VII.1 IR-193
Particle production cross sections

Energy (MeV)

Cross section (barns)

protons

alphas

Energy (MeV)
ENDF/B-VII.1 IR-193
protons from \((n,n^*)p\)
ENDF/B-VII.1 IR-193
protons from (n,2np)
ENDF/B-VII.1 IR-193
angular distribution for (n,p*0) proton
ENDF/B-VII.1 IR-193
angular distribution for (n,p*1) proton
ENDF/B-VII.1 IR-193
angular distribution for (n,p*2) proton
ENDF/B-VII.1 IR-193
angular distribution for (n,p^*3) proton
ENDF/B-VII.1 IR-193
angular distribution for (n,p*4) proton
ENDF/B-VII.1 IR-193
angular distribution for (n,p*5) proton
ENDF/B-VII.1 IR-193
angular distribution for (n,p*6) proton
ENDF/B-VII.1 IR-193
angular distribution for (n,p*7) proton
ENDF/B-VII.1 IR-193
angular distribution for (n,p*8) proton
ENDF/B-VII.1 IR-193
angular distribution for (n,p*9) proton
ENDF/B-VII.1 IR-193
protons from (n,p*\textit{c})
ENDF/B-VII.1 IR-193
alphas from (n,n*)a
ENDF/B-VII.1 IR-193
alphas from (n,2n)a
ENDF/B-VII.1 IR-193
angular distribution for (n,a*0) alpha
ENDF/B-VII.1 IR-193
alphas from (n,a*c)