ENDF/B-V CU-NAT
Principal cross sections

Energy (MeV)

Cross section (barns)

total
absorption
elastic
gamma production
ENDF/B-V CU-NAT resonance total cross section

Energy (MeV)

Cross section (barns)

- Total

$10^{-4}$

$10^{-3}$

$10^{-2}$

$10^{-1}$

$10^0$

$10^1$

$10^2$

$10^3$
ENDF/B-V CU-NAT
resonance total cross section

Energy (MeV)

Cross section (barns)

- total
E\v{N}DF/B-V CU-NAT
resonance total cross section

Energy (MeV)

Cross section (barns)

Energy (MeV)
ENDF/B-V CU-NAT
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
ENDF/B-V CU-NAT
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture
ENDF/B-V CU-NAT
resonance absorption cross sections

capture
ENDF/B-V CU-NAT
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
ENDF/B-V CU-NAT
Non-threshold reactions

Energy (MeV)

Cross section (barns)

(n,gma)
(n,p)
(n,a)
(n,xp)
(n,xa)
ENDF/B-V CU-NAT
Damage

Damage (MeV-barns) vs. Energy (MeV)

*10^{-3}
ENDF/B-V CU-NAT
Non-threshold reactions

Energy (MeV)

Cross section (barns)

(n,gma)
(n,p)
(n,a)
(n,xp)
(n,xa)
ENDF/B-V CU-NAT
Threshold reactions

Cross section (barns)

Energy (MeV)

- (n,2n)
- (n,3n)
- (n,n*)a
- (n,n*)p
- (n,n*c)
ENDF/B-V CU-NAT
Threshold reactions

Energy (MeV)

Cross section (barns)

- (n,d)
- (n,he3)
- (n,xd)
- (n,xhe3)

Energy (MeV)

Cross section (barns)
ENDF/B-V CU-NAT
angular distribution for elastic
ENDF/B-V CU-NAT
angular distribution for (n,2n)
ENDF/B-V CU-NAT
angular distribution for (n,3n)
ENDF/B-V CU-NAT
angular distribution for (n,n*)a

Energy (MeV)

Prob/Cos

Cosine

1.0 0.5 0.0 -0.5 -1.0

10.0 10.1

10.0 10.1
ENDF/B-V CU-NAT angular distribution for (n,n*)p
ENDF/B-V CU-NAT
angular distribution for (n,n*1)
ENDF/B-V CU-NAT angular distribution for (n,n*2)
ENDF/B-V CU-NAT
angular distribution for \( (n,n^*4) \)
ENDF/B-V CU-NAT
angular distribution for (n,n*5)
ENDF/B-V CU-NAT
angular distribution for (n,n*6)
ENDF/B-V CU-NAT
angular distribution for (n,n*7)
ENDF/B-V CU-NAT
angular distribution for (n,n*8)
ENDF/B-V CU-NAT angular distribution for (n,n*9)
ENDF/B-V CU-NAT
angular distribution for (n,n*10)
ENDF/B-V CU-NAT
angular distribution for (n,n*11)
ENDF/B-V CU-NAT
angular distribution for (n,n*c)
ENDF/B-V CU-NAT
Neutron emission for (n,2n)
ENDF/B-V CU-NAT
Neutron emission for \((n,n^*c)\)
ENDF/B-V CU-NAT
Photon emission for nonelastic
ENDF/B-V CU-NAT
14 MeV photon spectrum