JEFF-3.1 CU-65
resonance total cross section

Energy (MeV)

Cross section (barns)

total
JEFF-3.1 CU-65
resonance total cross section

Energy (MeV)

Cross section (barns)

total
JEFF-3.1 CU-65
resonance total cross section

Energy (MeV)

Cross section (barns)
JEFF-3.1 CU-65
resonance total cross section

Cross section (barns)

Energy (MeV)
JÉFF-3.1 CU-65
resonance total cross section

Cross section (barns)

Energy (MeV)
JEFF-3.1 CU-65
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture
JEFF-3.1 CU-65
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
JEFF-3.1 CU-65
resonance absorption cross sections

capture
JEFF-3.1 CU-65 resonance absorption cross sections

Cross section (barns)

Capture
JEFF-3.1 CU-65
resonance absorption cross sections

Energy (MeV)

Cross section (barns)
JEFF-3.1 CU-65
Damage

Energy (MeV)

Damage (MeV-barns)
JEFF-3.1 CU-65
Non-threshold reactions

Energy (MeV)

Cross section (barns)

(n,gma)
JEFF-3.1 CU-65
Non-threshold reactions

Energy (MeV)

10^{-2}

Cross section (barns)

10^{-3}

(n,gma)

Energy (MeV)

0 2 4 6 8 10 12 14 16 18 20
JEFF-3.1 CU-65
Threshold reactions

Cross section (barns) vs. Energy (MeV)

- (n,p)
- (n,d)
- (n,t)
- (n,he3)
- (n,a)
JEFF-3.1 CU-65
angular distribution for elastic
JEFF-3.1 CU-65
angular distribution for elastic
JEFF-3.1 CU-65
angular distribution for \((n,n^*1)\)
JEFF-3.1 CU-65
angular distribution for \((n,n^*2)\)
JEFF-3.1 CU-65
angular distribution for (n,n*3)
JEFF-3.1 CU-65
angular distribution for (n,n*4)
JEFF-3.1 CU-65
angular distribution for (n,n*13)
JEFF-3.1 CU-65
Neutron emission for (n,x)
JEFF-3.1 CU-65
Neutron emission for (n,2n)
JEFF-3.1 CU-65
Neutron emission for \((n,n^*)a\)
JEFF-3.1 CU-65
Neutron emission for (n,n*)p
JEFF-3.1 CU-65
Neutron emission for \((n,n^*c)\)
JEFF-3.1 CU-65
Photon emission for (n,gma)

\[ P(E_\gamma) \text{ (MeV)} \]

\[ E_n (\text{MeV}) \]
JEFF-3.1 CU-65
Photon emission for (n,x)
JEFF-3.1 CU-65
Photon emission for \((n,n^\ast)\)a
JEFF-3.1 CU-65
Photon emission for \((n,n^*)p\)
JEFF-3.1 CU-65
Photon emission for (n,n*c)
JEFF-3.1 CU-65
Photon emission for (n,p)
JEFF-3.1 CU-65
Photon emission for (n,a)
JEFF-3.1 CU-65
thermal capture photon spectrum
JEFF-3.1 CU-65
14 MeV photon spectrum
JEFF-3.1 CU-65
Particle heating contributions

Energy (MeV) vs. MeV/collision for various particles:
- Protons (black line)
- Deuterons (red line)
- Tritons (green line)
- Alphas (blue line)
JEFF-3.1 CU-65
Recoil Heating

![Graph showing the relationship between Energy (MeV) and Heating (MeV/reaction). The graph indicates an increasing trend in heating with energy. The x-axis represents Energy (MeV) ranging from 0 to 160, while the y-axis represents Heating (MeV/reaction) ranging from 0 to 2.5. The graph is labeled as "recoil heating."](#)
JEFF-3.1 CU-65
protons from (n,x)
JEFF-3.1 CU-65
protons from \((n,n^*)p\)
JEFF-3.1 CU-65
protons from (n,p)
JEFF-3.1 CU-65
deuterons from \( (n,x) \)
JEFF-3.1 CU-65
tritons from (n,x)
JEFF-3.1 CU-65
alphas from (n,x)
JEFF-3.1 CU-65
alphas from (n,n*)a
JEFF-3.1 CU-65
alphas from (n,a)