Principal cross sections

Energy (MeV)

Cross section (barns)

- total
- absorption
- elastic
- gamma production
Damage (MeV-barns) vs. Energy (MeV)

- The graph shows the relationship between damage (in MeV-barns) and energy (in MeV).
- The data is presented on a log-log scale, indicating a power law relationship.
- The curve indicates that as energy increases, the damage decreases.
- The damage value decreases sharply at lower energies and levels off at higher energies.
ENDF/B-VII.1 ES-254 Heating

Energy (MeV)

Heating (MeV/reaction)
ENDF/B-VII.1 ES-254
Non-threshold reactions

Graph showing the cross section (in barns) vs. energy (in MeV) for fission and (n,gma) reactions.
ENDF/B-VII.1 ES-254
angular distribution for elastic
Delayed neutron spectra

Energy (MeV)

Probability

10^{-5}  10^{-4}  10^{-3}  10^{-2}  10^{-1}  10^{0}

group 1 frac 0.0073 decay/shake 1.940E-10
group 2 frac 0.3148 decay/shake 2.890E-10
group 3 frac 0.1547 decay/shake 1.048E-09
group 4 frac 0.2788 decay/shake 3.185E-09
group 5 frac 0.2010 decay/shake 8.332E-09
group 6 frac 0.0435 decay/shake 2.724E-08
ENDF/B-VII.1 ES-254
Photon emission for fission
Photon emission for (n,3n)
ENDF/B-VII.1 ES-254
Photon emission for (n,4n)
ENDF/B-VII.1 ES-254
Photon emission for (n,n*1)
Photon emission for (n,n*3)
Photon emission for \((n,n^*4)\)
ENDF/B-VII.1 ES-254
Photon emission for (n,n*5)
Photon emission for \((n,n^*6)\)
ENDF/B-VII.1 ES-254
Photon emission for (n,n*7)
Photon emission for (n,n\textsuperscript{c})
Photon emission for (n,gma)
ENDF/B-VII.1 ES-254 thermal capture photon spectrum

Gamma Energy (MeV)

Gamma Prod (barns/MeV)

Gamma Energy (MeV)