ENDF/B-VII.1 AC-227
Principal cross sections

![Graph of cross sections vs. energy]

- **Total cross section**
- **Absorption cross section**
- **Elastic cross section**
- **Gamma production cross section**

Energy (MeV) vs. Cross section (barns)
ENDF/B-VII.1 AC-227 Heating

The graph shows the heating (MeV/reaction) as a function of energy (MeV). The heating increases significantly as the energy increases.
ENDF/B-VII.1 AC-227 Damage

Damage (MeV-barns) vs. Energy (MeV)
ENDF/B-VII.1 AC-227
Inelastic levels

Energy (MeV)

Cross section (barns)

0.0 0.1 0.2 0.3 0.4 0.5

0 5 10 15 20

(n,n*1) (n,n*2) (n,n*3) (n,n*4) (n,n*5)
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Inelastic levels

Energy (MeV)

Cross section (barns)

- (n,n*6)
- (n,n*7)
- (n,n*8)
- (n,n*9)
- (n,n*10)

Energy (MeV)
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Threshold reactions

Energy (MeV)

Cross section (barns)

(n,2n) (n,3n) (n,4n) (n,n*c)
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angular distribution for elastic
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angular distribution for (n,n*1)
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angular distribution for (n,n*2)
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angular distribution for (n,n*3)
ENDF/B-VII.1 AC-227
angular distribution for (n,n*4)
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angular distribution for (n,n*5)
ENDF/B-VII.1 AC-227
angular distribution for \((n,n^*6)\)
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angular distribution for \((n,n^*7)\)
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angular distribution for (n,n*8)
ENDF/B-VII.1 AC-227
angular distribution for (n,n\*9)
ENDF/B-VII.1 AC-227
angular distribution for (n,n*10)
ENDF/B-VII.1 AC-227
angular distribution for (n,n*11)
ENDF/B-VII.1 AC-227
angular distribution for (n,n*12)
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angular distribution for \( (n,n^{*13}) \)
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angular distribution for (n,n*14)
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angular distribution for (n,n*15)
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angular distribution for (n,n*16)
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angular distribution for (n,n*17)
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angular distribution for (n,n*18)
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angular distribution for (n,n*19)
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angular distribution for (n,n*20)
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Total fission nubar

Fission nubar vs Energy (MeV) graph.
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Neutron emission for (n,2n)
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Neutron emission for (n,3n)
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Neutron emission for fission
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Neutron emission for (n,4n)
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Neutron emission for (n,n*c)
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Photon emission for fission
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Photon emission for (n,4n)

![Graph showing photon emission for (n,4n) with energy distributions for various energies and energies of emitted photons.](image-url)
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Photon emission for (n,n*1)
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Photon emission for (n,n*2)
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Photon emission for (n,n*3)
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Photon emission for \((n,n^*4)\)
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Photon emission for (n,n*5)
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Photon emission for (n,n*6)
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Photon emission for (n,n*7)
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Photon emission for \((n,n^*8)\)
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Photon emission for (n,n*9)
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Photon emission for (n,n*10)
ENDF/B-VII.1 AC-227
Photon emission for (n,n*11)
ENDF/B-VII.1 AC-227
Photon emission for (n,n*12)
ENDF/B-VII.1 AC-227
Photon emission for (n,n*13)

![Graph showing photon emission for (n,n*13)](image)
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Photon emission for (n,n*14)
ENDF/B-VII.1 AC-227
Photon emission for (n,n*15)
ENDF/B-VII.1 AC-227
Photon emission for \((n,n^*16)\)
ENDF/B-VII.1 AC-227
Photon emission for (n,n*17)
ENDF/B-VII.1 AC-227
Photon emission for (n,n*18)
ENDF/B-VII.1 AC-227
Photon emission for (n,n*19)
ENDF/B-VII.1 AC-227
Photon emission for (n,n*20)
Photon emission for \((n,n^*c)\)
Photon emission for (n,gma)
ENDF/B-VII.1 AC-227
thermal capture photon spectrum