JEFF-3.0 AS-75
Principal cross sections

Energy (MeV)

Cross section (barns)

- total
- absorption
- elastic
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resonance total cross section

Energy (MeV)

Cross section (barns)
JEFF-3.0 AS-75 resonance total cross section

Cross section (barns)

Energy (MeV)
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resonance total cross section

Cross section (barns)

Energy (MeV)
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resonance absorption cross sections

Cross section (barns)

Energy (MeV)
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resonance absorption cross sections

Cross section (barns)

Energy (MeV)
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resonance absorption cross sections

Cross section (barns)

Energy (MeV)
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Non-threshold reactions

Cross section (barns) vs. Energy (MeV)

- The graph shows the cross section (in barns) as a function of energy (in MeV).
- The x-axis represents the energy range from $10^{-11}$ to $10^1$ MeV.
- The y-axis represents the cross section range from $10^{-3}$ to $10^2$ barns.
- The reaction $(n,\gamma)$ is highlighted with a dotted line.

Key points:
- The cross section decreases significantly with increasing energy.
- There are sharp peaks in the cross section at specific energy levels, indicating resonant reactions.
- The cross section is highest at low energies and decreases rapidly as energy increases, especially in the region of $10^{-11}$ to $10^{-8}$ MeV.
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Non-threshold reactions

Energy (MeV)

Cross section (barns)

$10^{-2}$

$10^{-3}$

$(n,g_{\gamma\alpha})$