(n,n') α Cross Section

-83.30 To 9999. %

Ni059-n.tendl Threshold 6.2048 MeV
Ni059.endfb7.1 Threshold 6.5000 MeV

Ni059.endfb7.1/Ni059-n.tendl

Incident Energy (eV)
Cross Section

Ni059-n.tendl Threshold 15.746 MeV
Ni059.endfb7.1 Threshold 16.000 MeV

Incident Energy (eV)

NiO59.endfb7.1/NiO59-n.tendl

Ratio

Cross Section (milli-barns)
The graph represents the cross section for the reaction $(n,\alpha)$ on Ni-59. The x-axis denotes the incident energy in eV, ranging from $10^{-5}$ to $10^8$ eV. The y-axis on the left shows the cross section in barns, while the y-axis on the right shows the ratio of the cross sections Ni059.endfb7.1/Ni059-n.tendl.

The black line represents Ni059-n.tendl, the red dashed line represents Ni059.endfb7.1, and the blue line represents the ratio Ni059.endfb7.1/Ni059-n.tendl.

The maximum and minimum ratios are indicated at the top of the graph.
The graph depicts the kerma total (eV-barns) cross section for Ni-59, ranging from 77.36 to 9999%. The graph shows the cross section in bars (y-axis) as a function of incident energy (x-axis) in eV. Two curves are plotted:

- Solid line: Ni059-n.tendl
- Dashed line: Ni059.endfb7.1

Additionally, a ratio curve is shown:

- Blue line: Ni059.endfb7.1/Ni059-n.tendl

The energy range is indicated on the x-axis, spanning from $10^{-5}$ to $10^8$ eV.