Program Complot
(Version 2014-1)
by
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Press Mouse Button to Start.
The graph shows the total cross section for incident energy (eV) ranging from $10^5$ to $10^7$. The graph compares the cross section data from IRDFF and IRDF-2002. The ratio of IRDF-2002 to IRDFF is also shown, with a range from 0.99 to 1.02. The cross section values are in barns (a unit of area used in nuclear physics).
MAT 2931

Cross Section

-100.0 To 10.29 %

IRDF Threshold 10.063 MeV
--- IRDF-2002 Threshold 10.063 MeV

IRDF-2002/IRDF

Incident Energy (eV)

Ratio

Cross Section (barns)

Max Ratio

Min Ratio

29-Cu-65
Cross Section

-9.007 To 41.69 %

MAT 3025

30-Zn-64

(n,p)

Min Ratio

Cross Section (milli-barns)

IRDF

IRDF-2002

Ratio

1.4

1.2

1.0

Incident Energy (eV)

10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}

IRDF-2002/IRDF
MAT 4025

(n,2n) Cross Section

-2.117 To 10.62 %

40-Zr-90

Max Ratio

Min Ratio

IRDF Threshold 12.104 MeV

IRDF-2002 Threshold 12.104 MeV

Cross Section (barns)

Ratio

20 30 40 50 60

Incident Energy (MeV)

40-Zr-90

IRDF-2002/IRDF

1.10

1.05

1.00
Cross Section

IRDF Threshold 12.104 MeV
IRDF-2002 Threshold 12.104 MeV

IRDF-2002/IRDF

Incident Energy (MeV)
Radionuclide Production Cross Section  -1.571 To 3.388 %

**Graph:**
- **Title:** Inelastic: 49-In-115m
- **Y-axis:** Cross Section (milli-barns)
- **X-axis:** Incident Energy (eV)
- **Legend:**
  - IRDF Threshold 339.20 keV
  - IRDF-2002 Threshold 339.20 keV
  - IRDF-2002/IRDF

**Note:**
- The graph shows the cross section for different incident energies with reference to the thresholds specified.
Radionuclide Production Cross Section -18.92 To 10.04 %

- IRDF Threshold 9.3071 MeV
- IRDF-2002 Threshold 9.1190 MeV

Cross Section (barns)

Ratio

Incident Energy (MeV)
(n,γ) Cross Section

-0.569 To 0.579 %

Cross Section (barns)

- IRDFF
- IRDF-2002

Ratio

IRDF-2002/IRDFF

Incident Energy (eV)
MAT 6925

(n,2n) Cross Section

IRDFF Threshold 8.0816 MeV
IRDF-2002 Threshold 8.0816 MeV

Ratio

Cross Section (barns)

Incident Energy (MeV)
Cross Section

Min Ratio
Max Ratio

Cross Section (barns)

IRDF
IRDF-2002

IRDF-2002/IRDF

Ratio

Incident Energy (eV)

106
Fission Cross Section

-97.52 To 94.34 %

Cross Section (barns)

Incident Energy (eV)

Ratio