

Program Complot  
(Version 2018-1)

by

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Press Mouse Button to Start

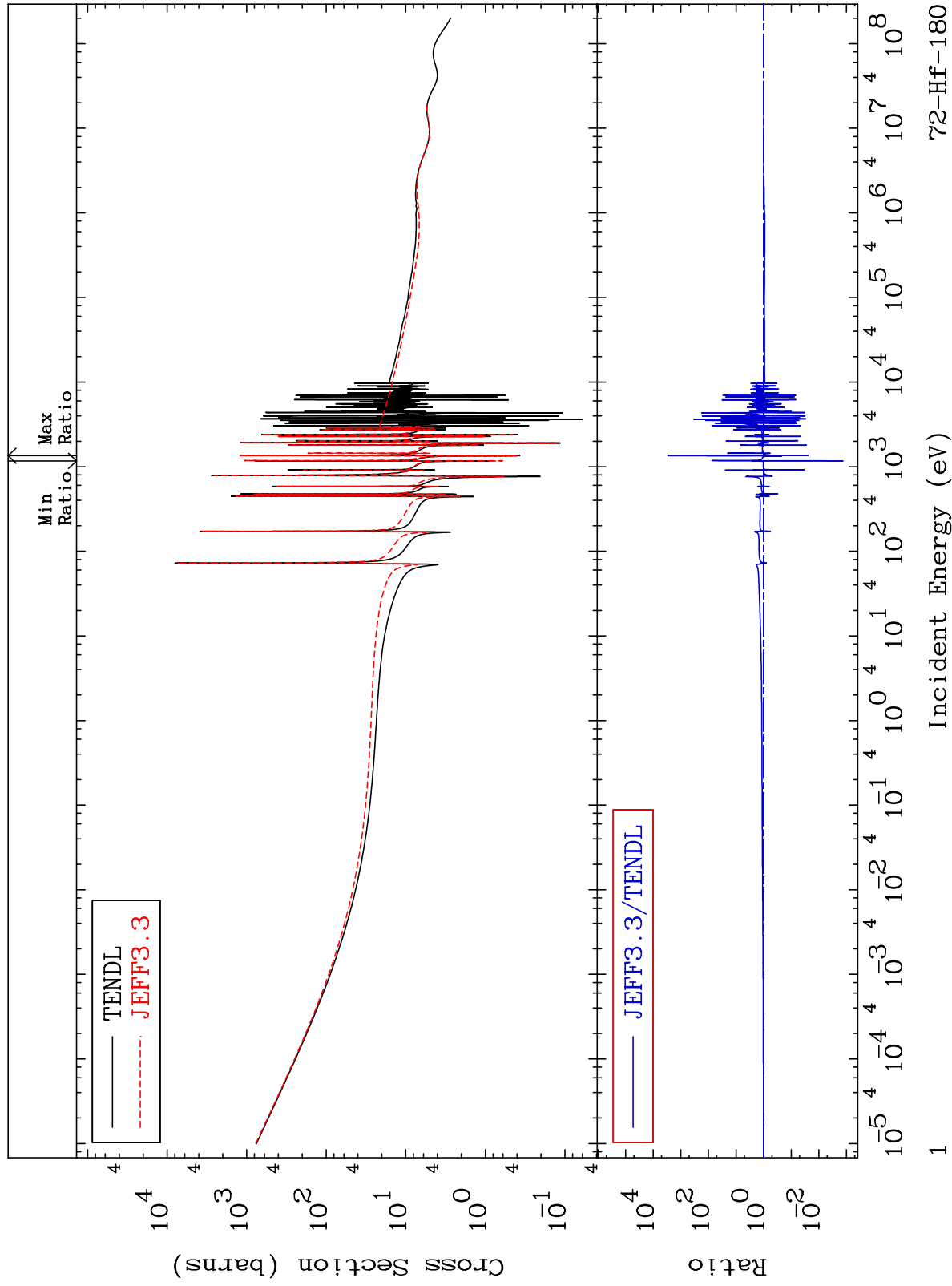
MAT 7243

Total

<sup>72</sup>Hf-180

-99.86 To 9999. %

Cross Section



<sup>72</sup>Hf-180

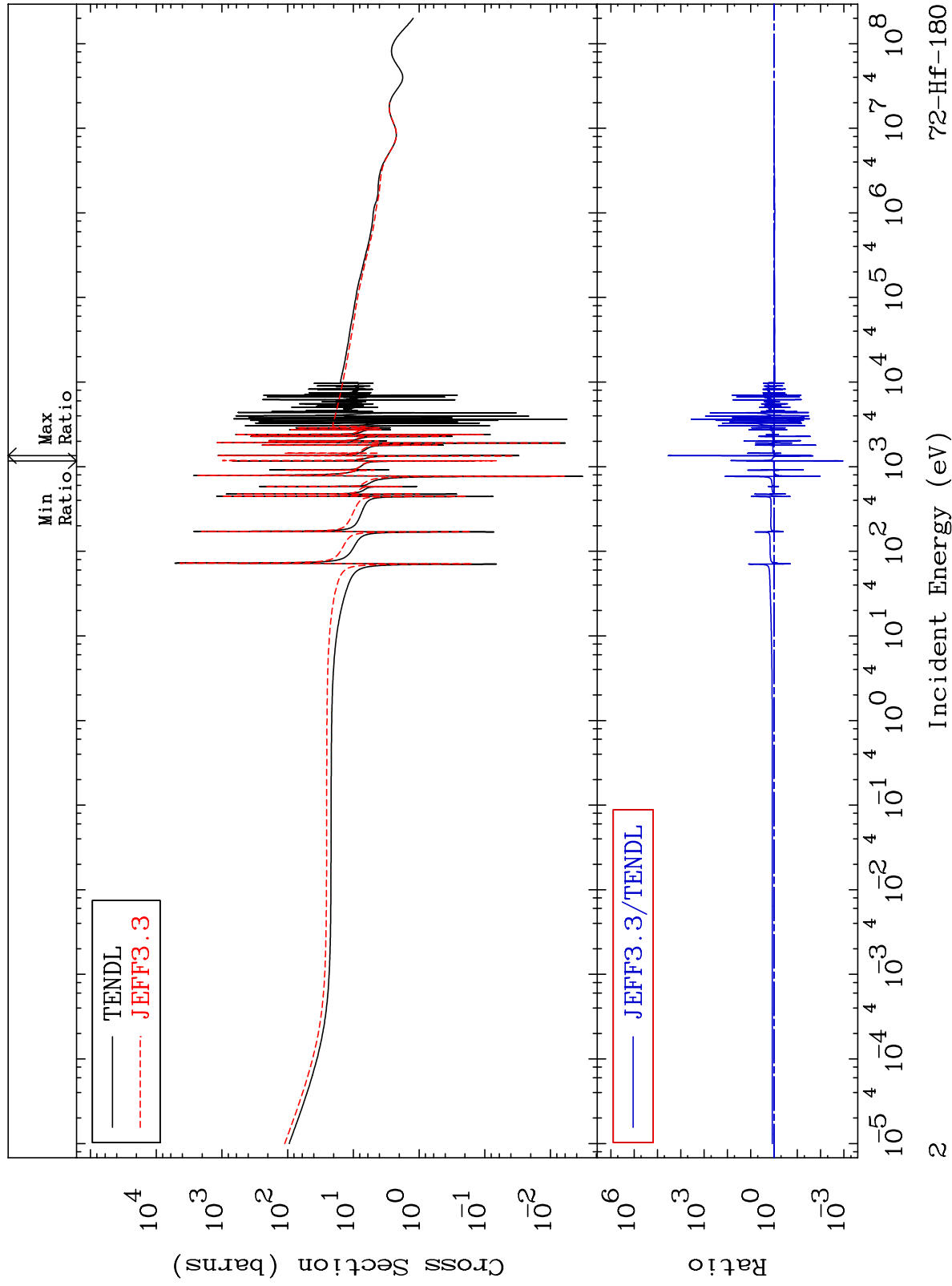
Incident Energy (eV)

1

MAT 7243

Elastic  
Cross Section

72-Hf-180  
-99.89 To 9999. %



72-Hf-180

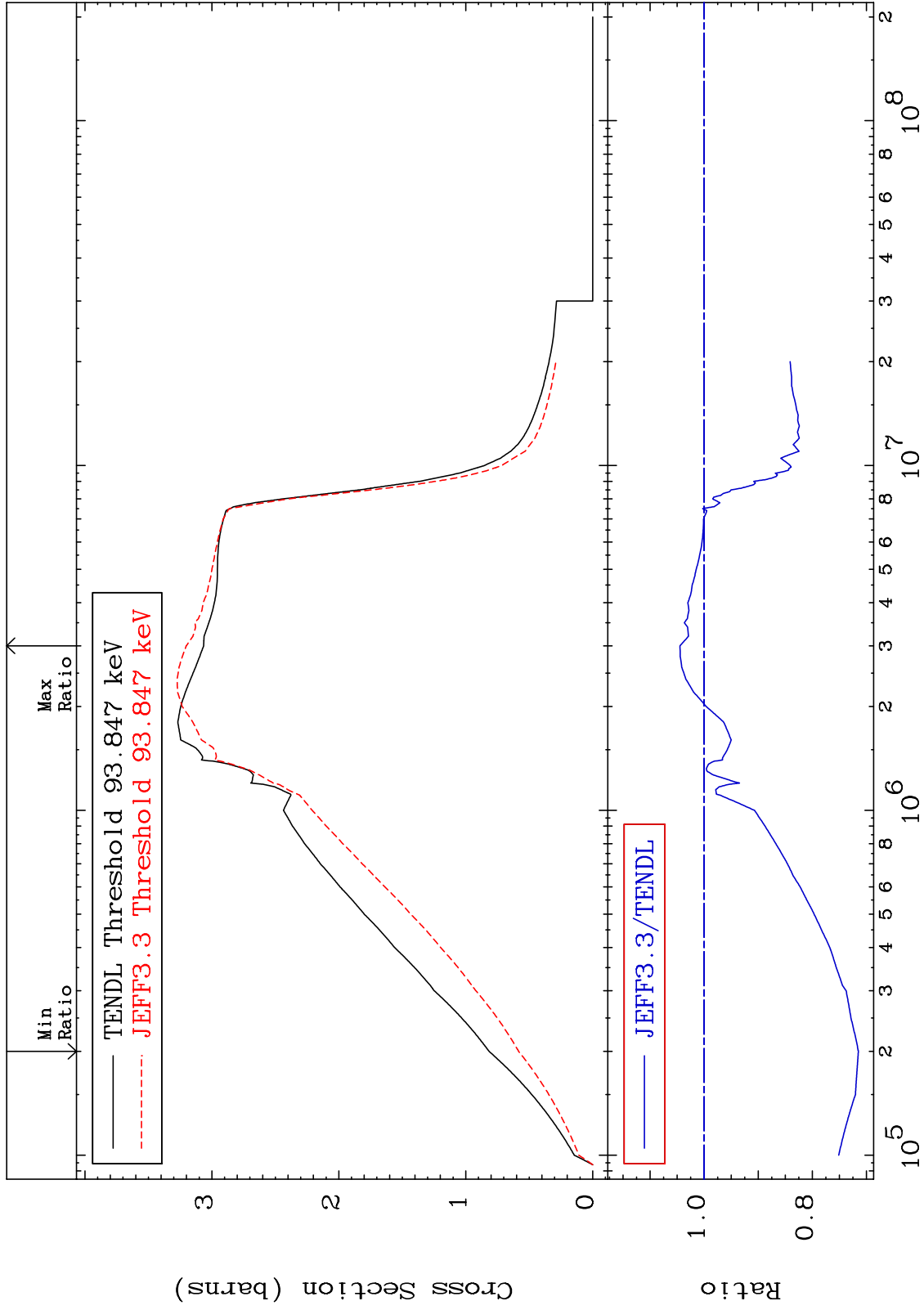
Incident Energy (eV)

MAT 7243

Inelastic  
Cross Section

<sup>72</sup>Hf-180

-28.53 To 4.453 %



Incident Energy (eV)

<sup>72</sup>Hf-180

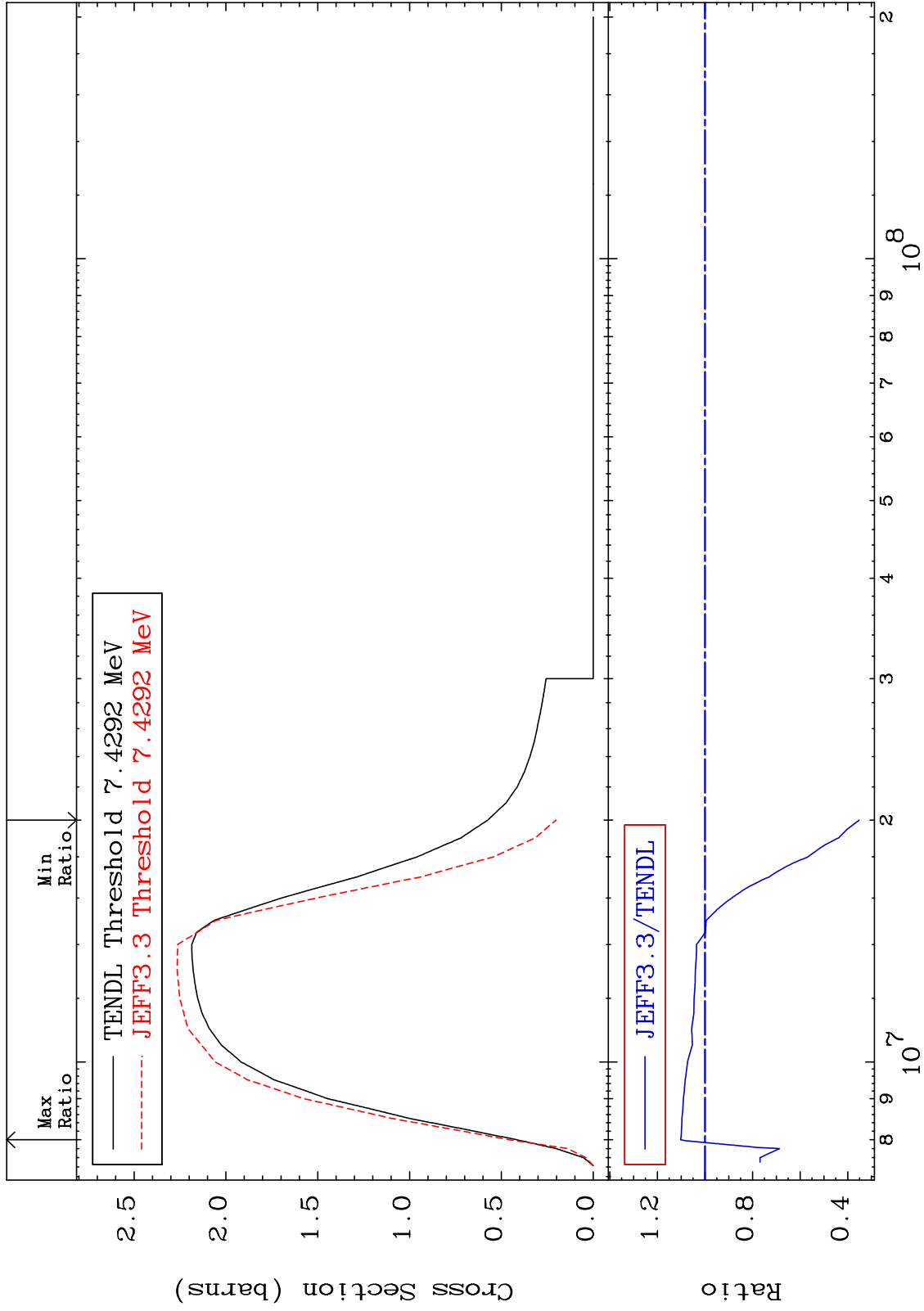
MAT 7243

(n, 2n)

72-Hf-180

Cross Section

-64.84 To 10.23 %



MAT 7243

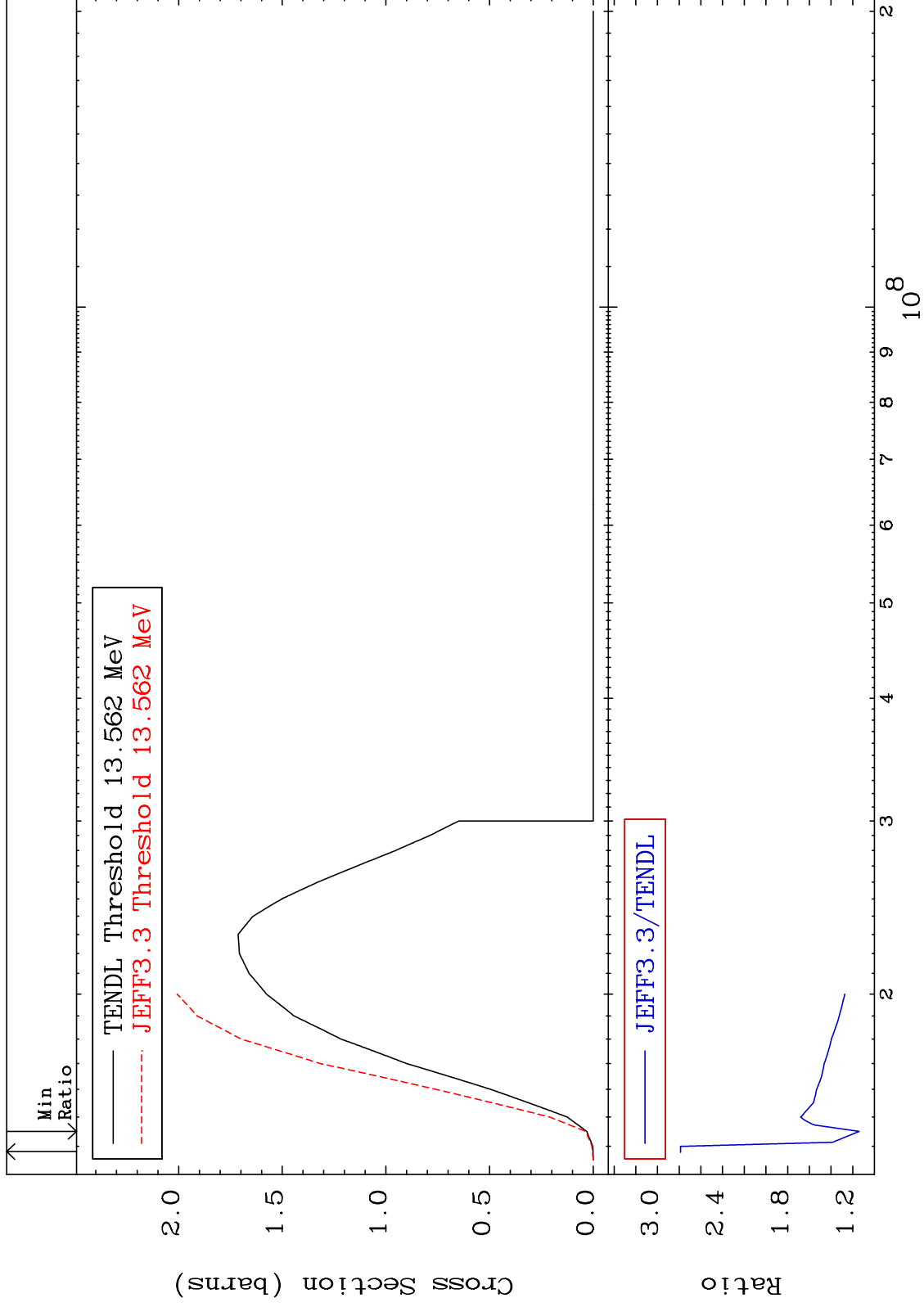
(n, 3n)

72-Hf-180

Cross Section

14.06

To 178.7 %



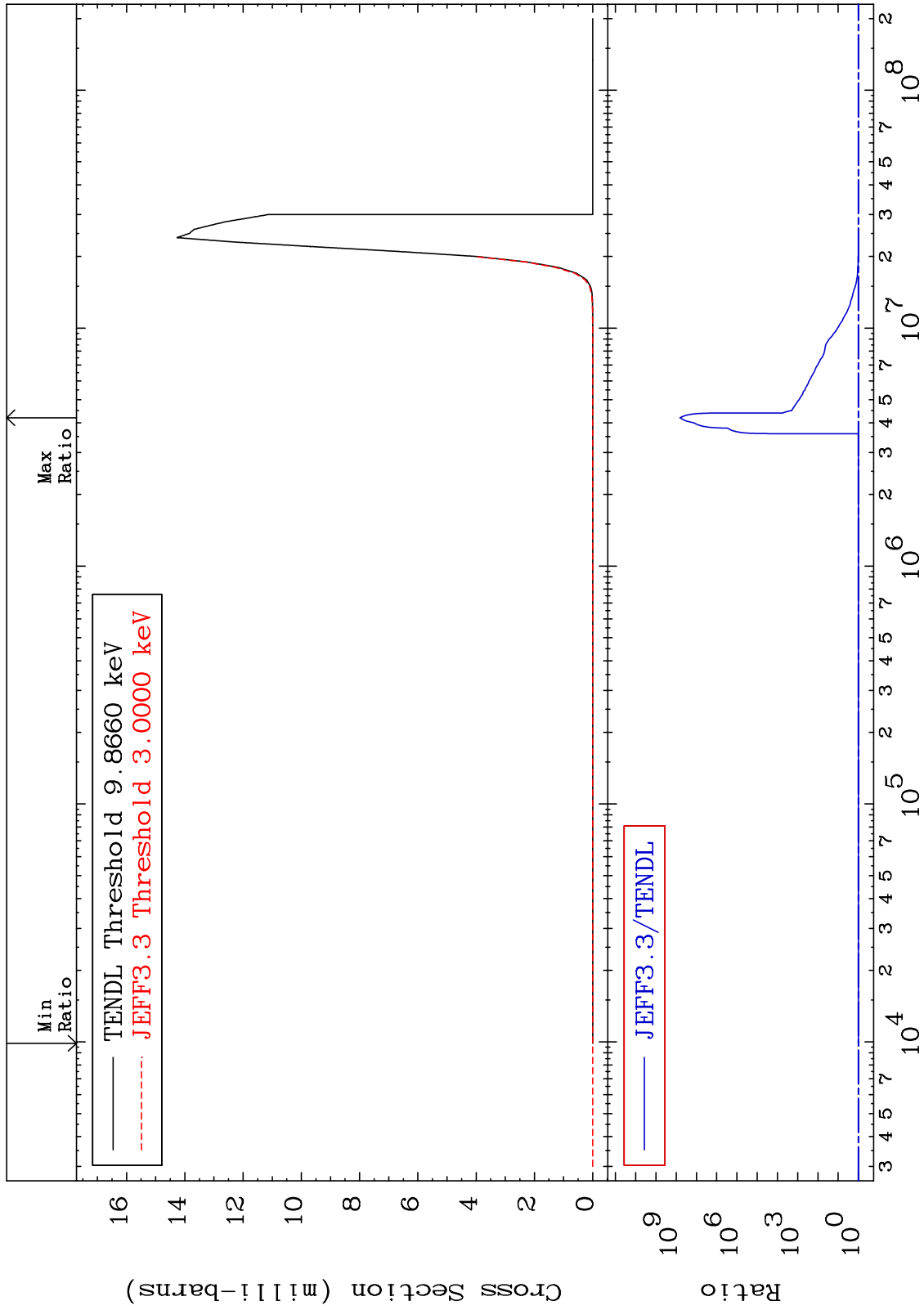
MAT 7243

(n, n')  $\alpha$

72-Hf-180

Cross Section

0.000 To 9999. %



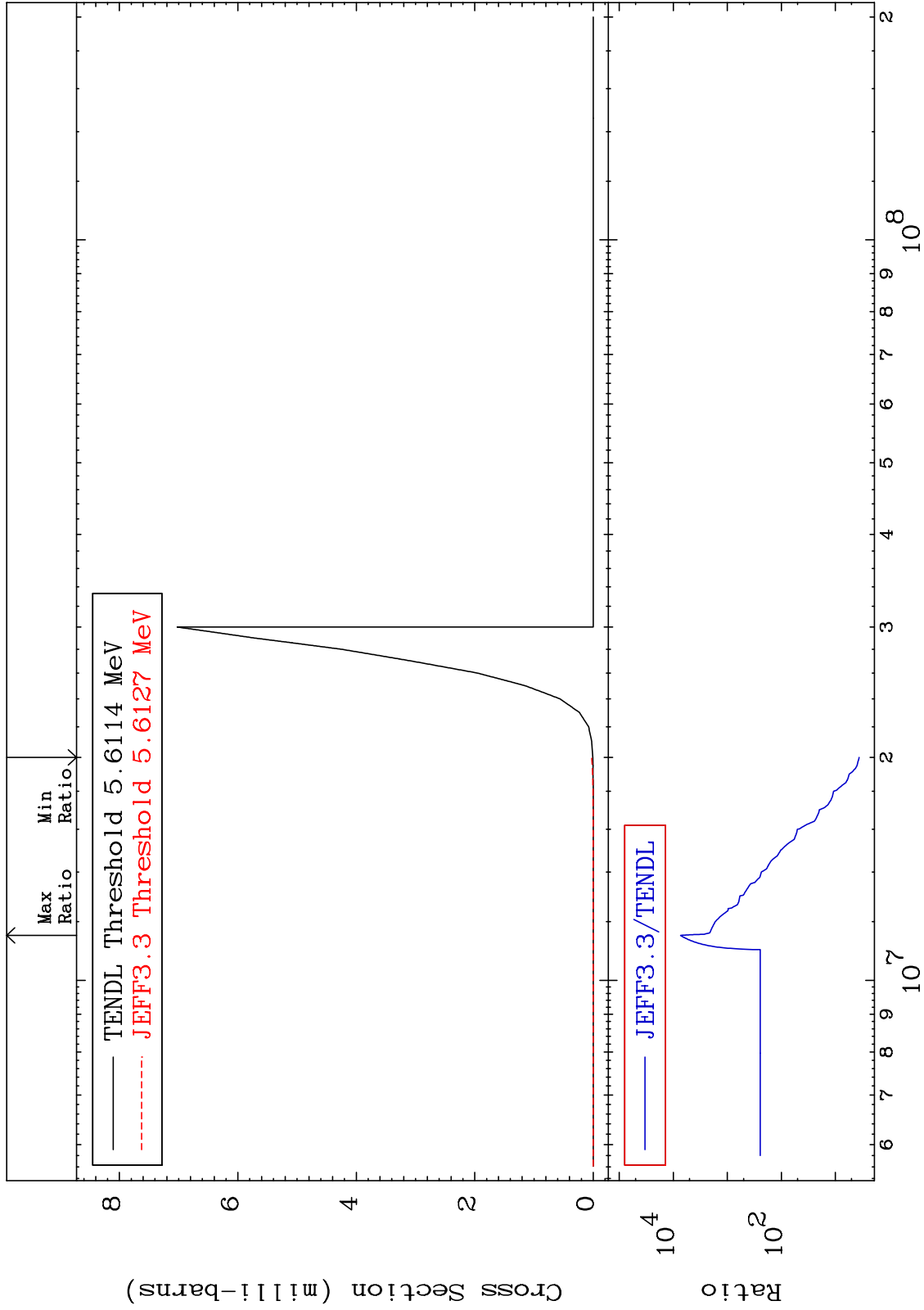
MAT 7243

(n,2n)  $\alpha$

72-Hf-180

Cross Section

262.0 To 9999. %





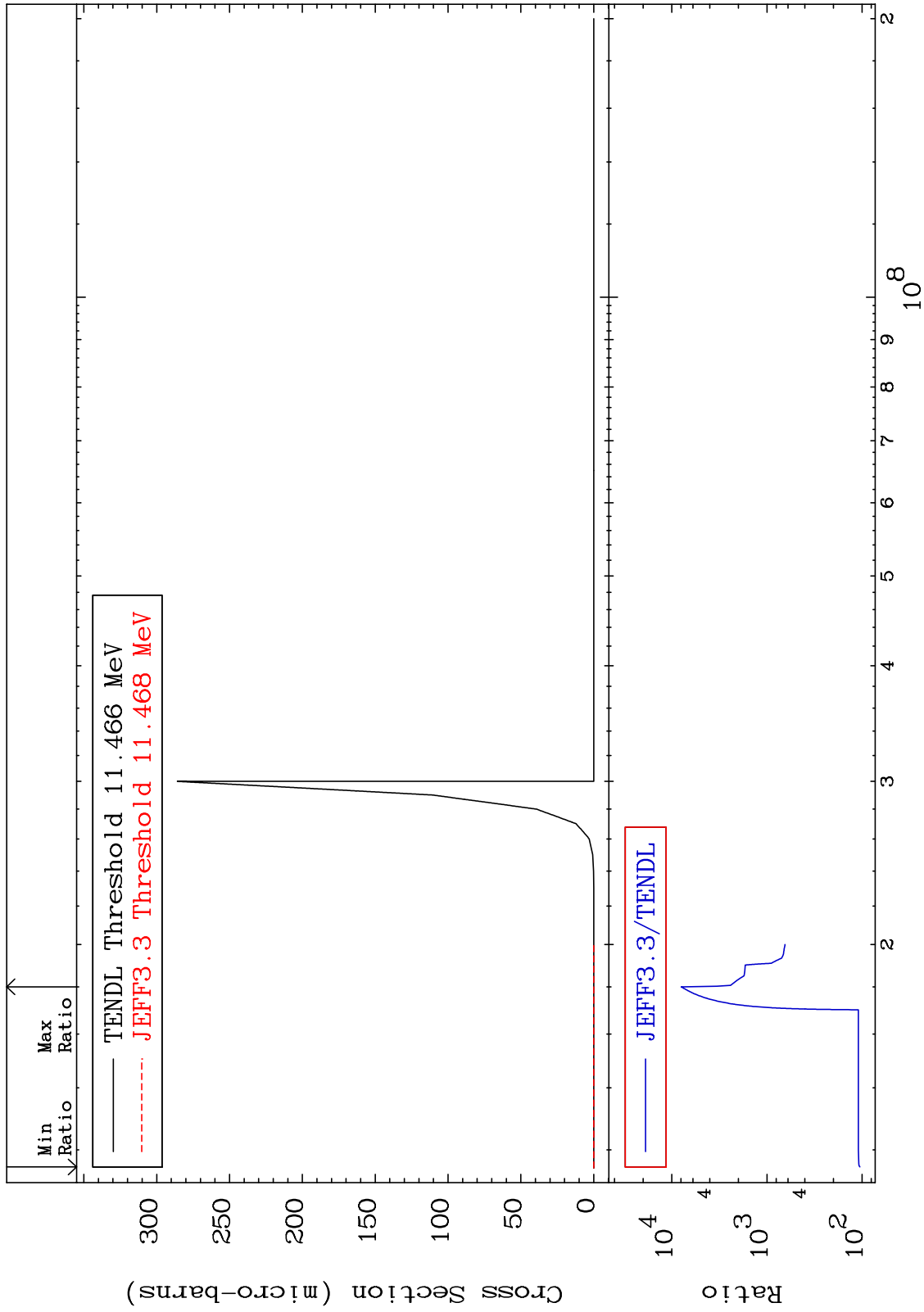
MAT 7243

(n,3n)  $\alpha$

72-Hf-180

Cross Section

9999. To 9999. %



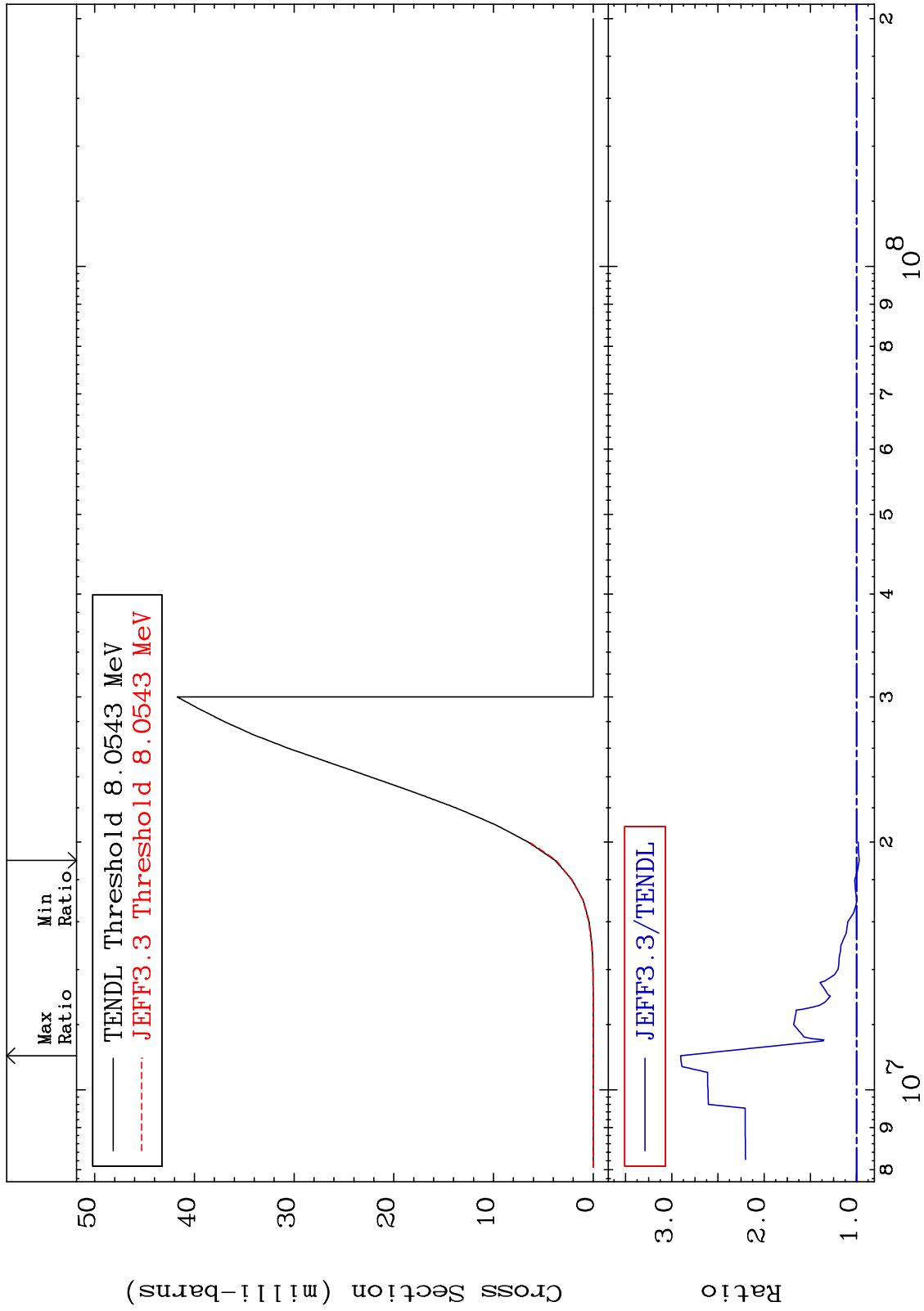
MAT 7243

(n, n') p

72-Hf-180

Cross Section

-2.777 To 190.4 %



9

Incident Energy (eV)

72-Hf-180

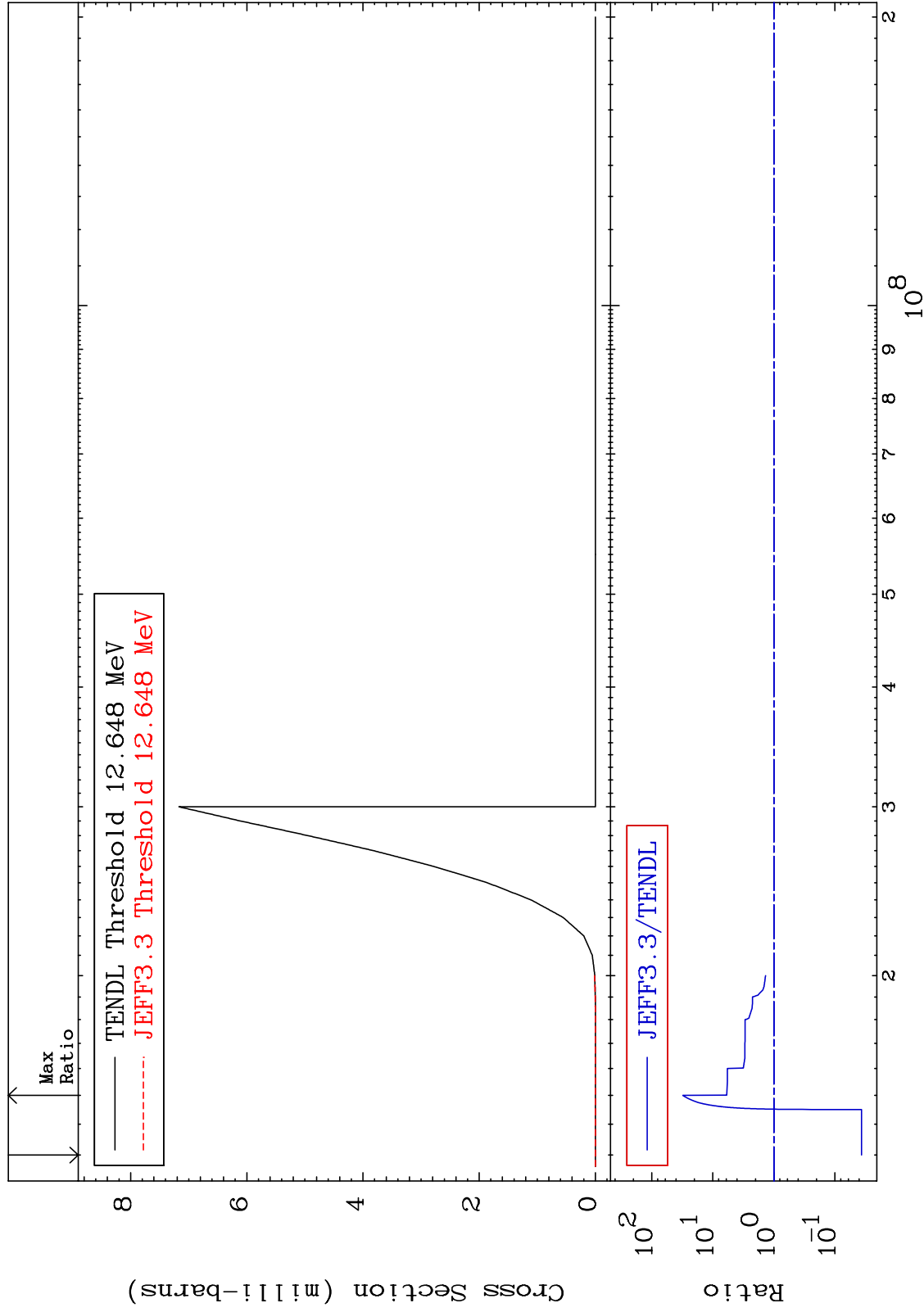
MAT 7243

(n,n') d

72-Hf-180

Cross Section

-96.35 To 2994. %



10

Incident Energy (eV)

72-Hf-180

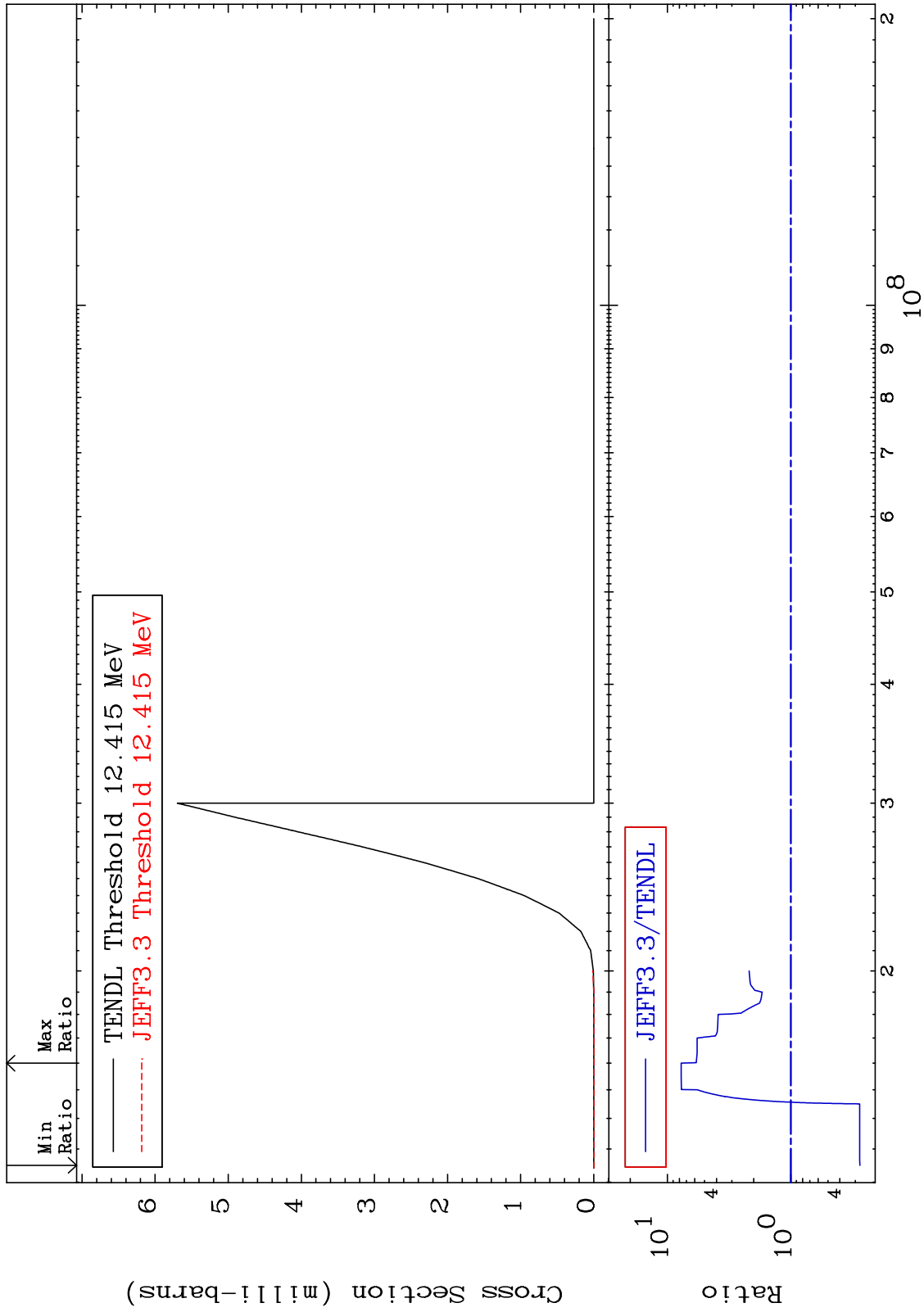
MAT 7243

(n,n') t

72-Hf-180

Cross Section

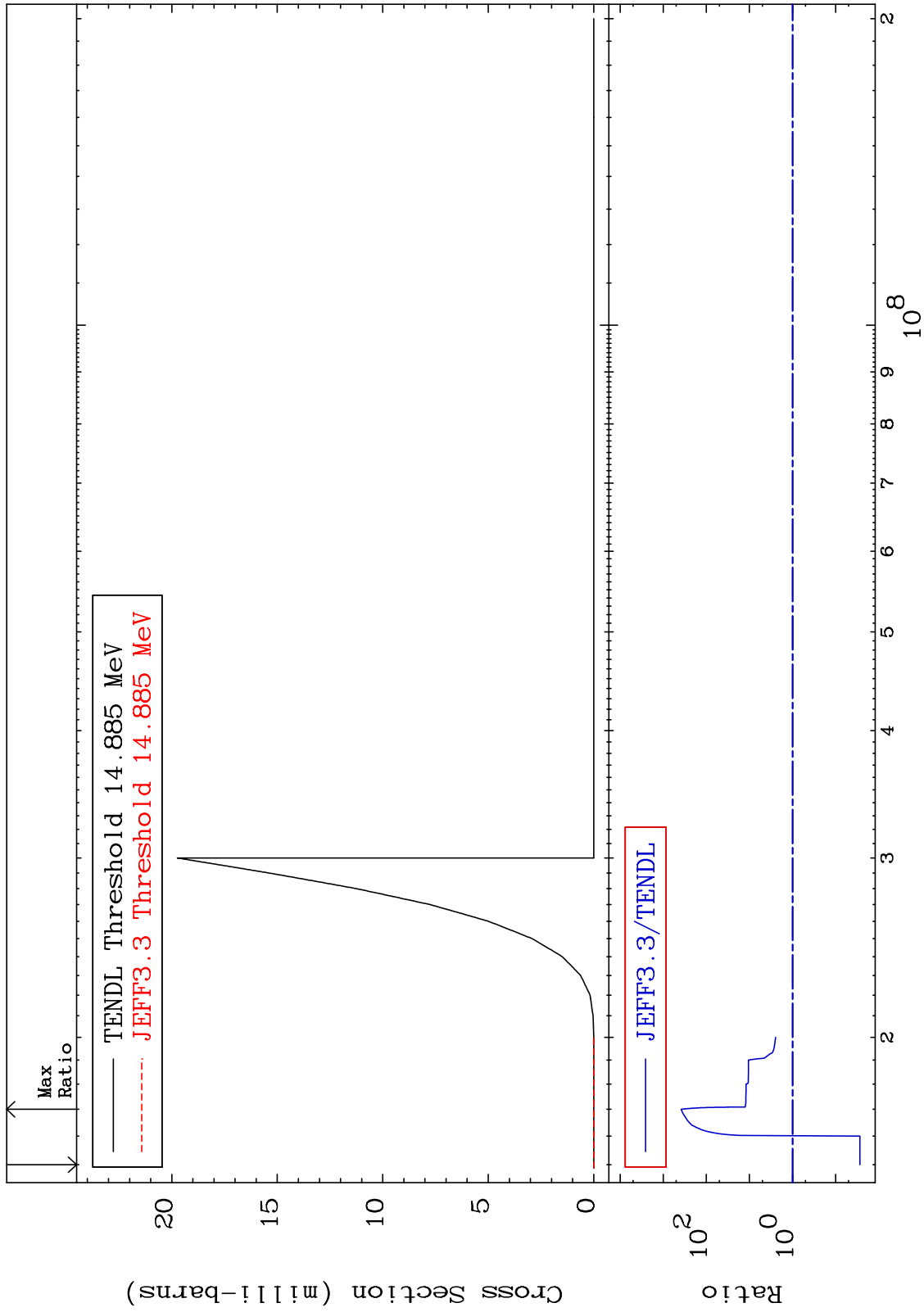
-72.51 To 672.2 %



MAT 7243

(n,2n) p  
Cross Section

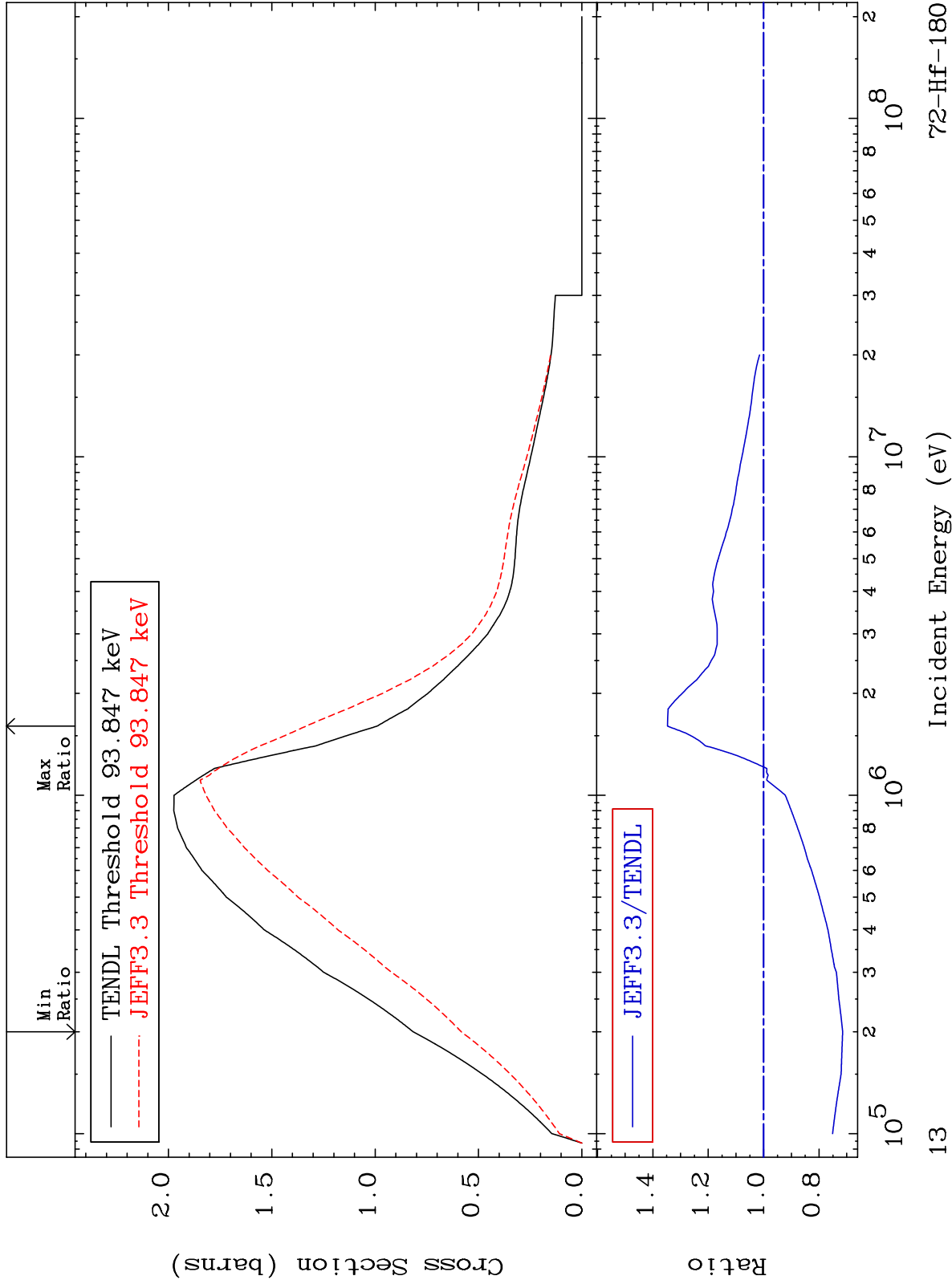
72-Hf-180  
-97.28 To 9999. %



MAT 7243

MT= 51 (n,n') Level  
Cross Section

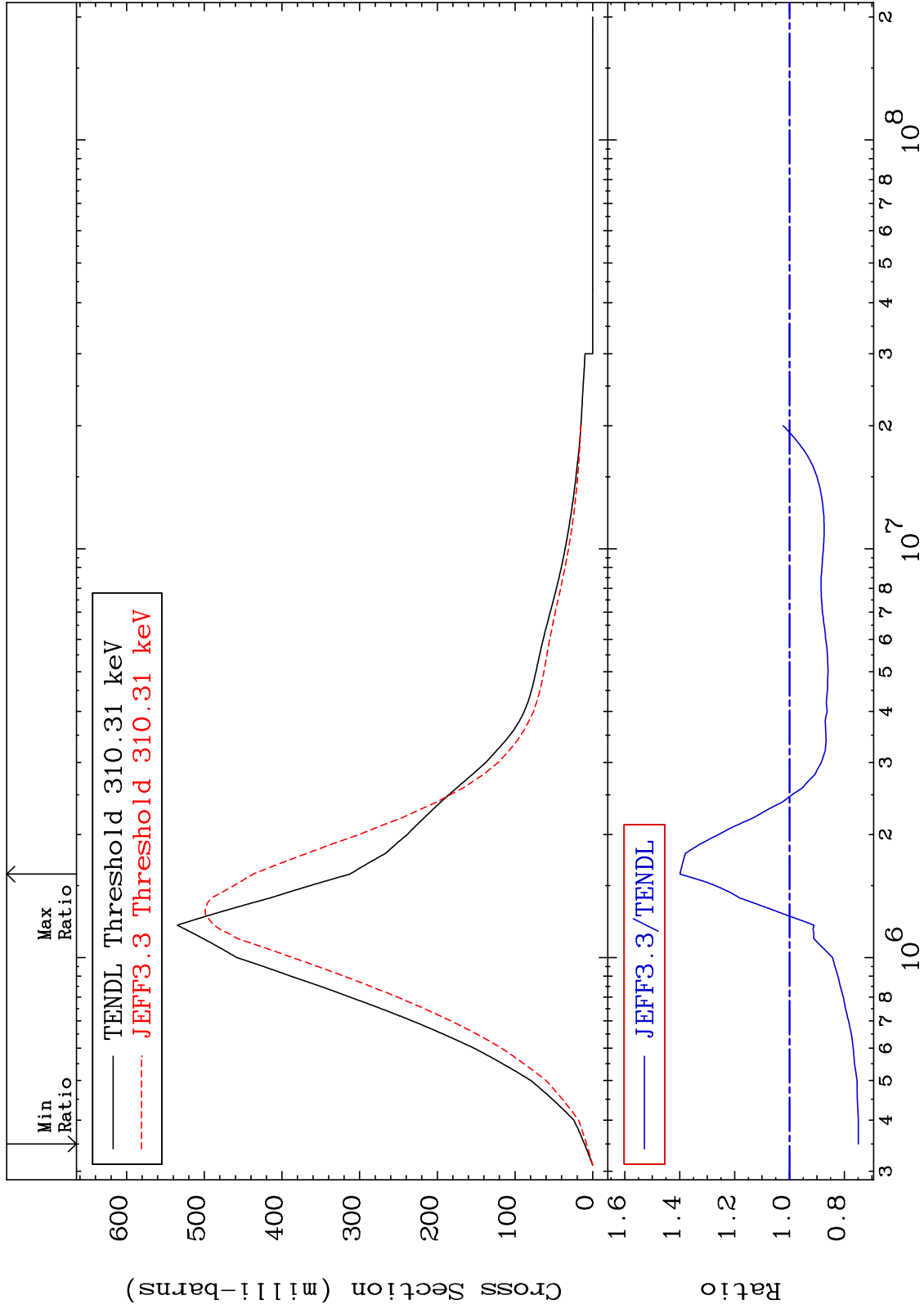
72-Hf-180  
-28.53 To 34.70 %



MAT 7243

MT= 52 (n,n') Level  
Cross Section

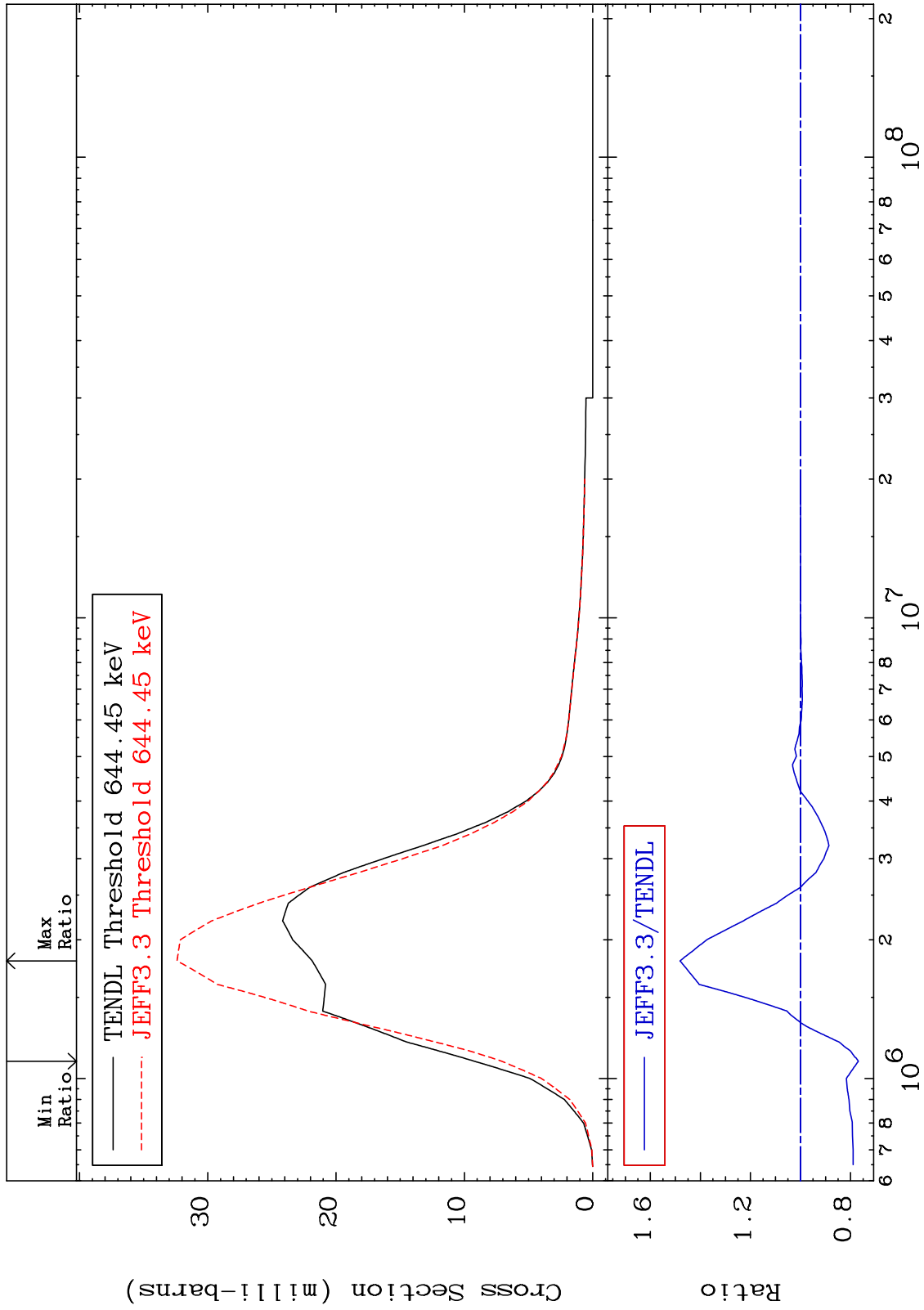
72-Hf-180  
-25.06 To 39.86 %



MAT 7243

MT= 53 (n,n') Level  
Cross Section

<sup>72</sup>Hf-180  
-23.13 To 48.16 %



15

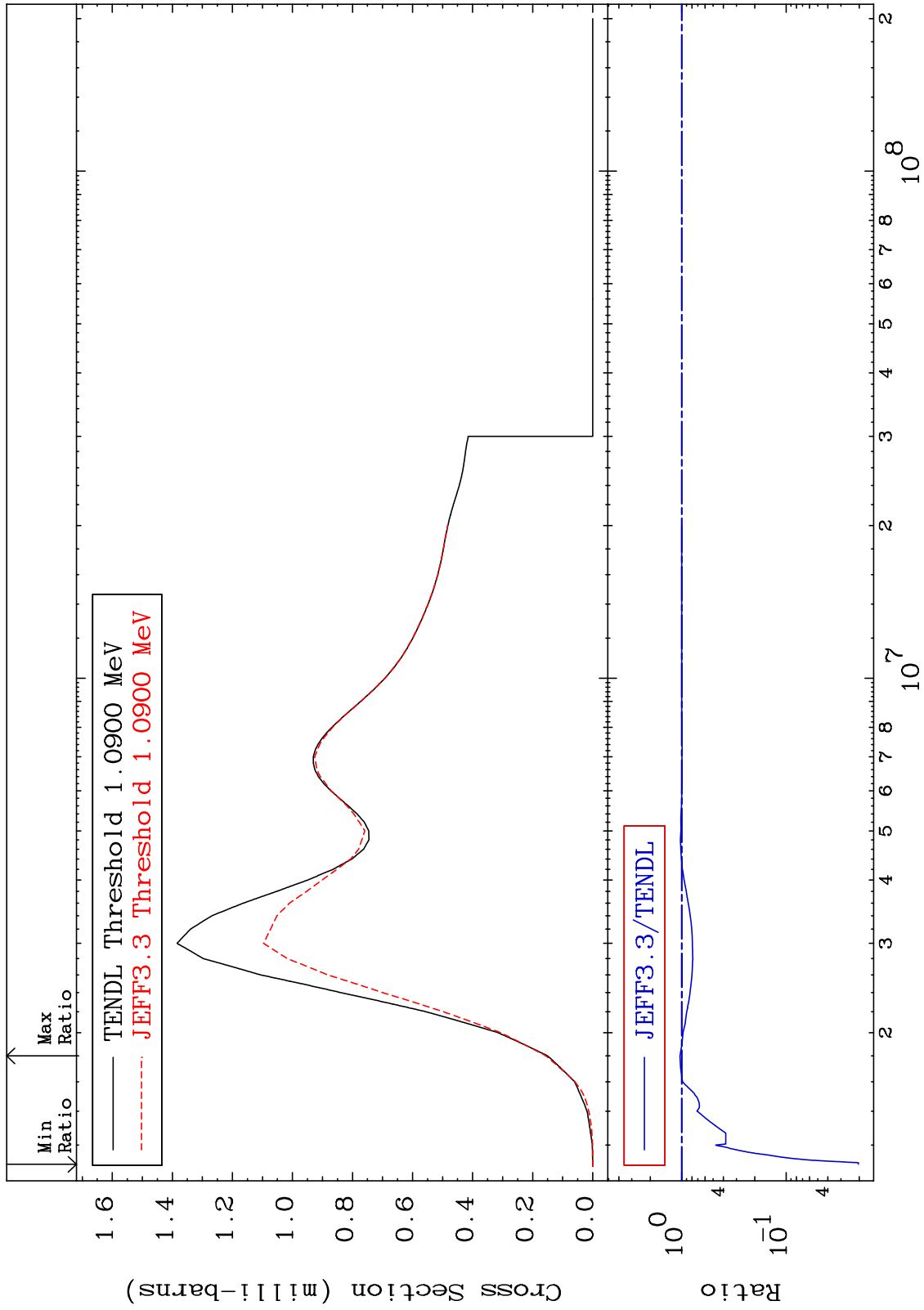
72-Hf-180



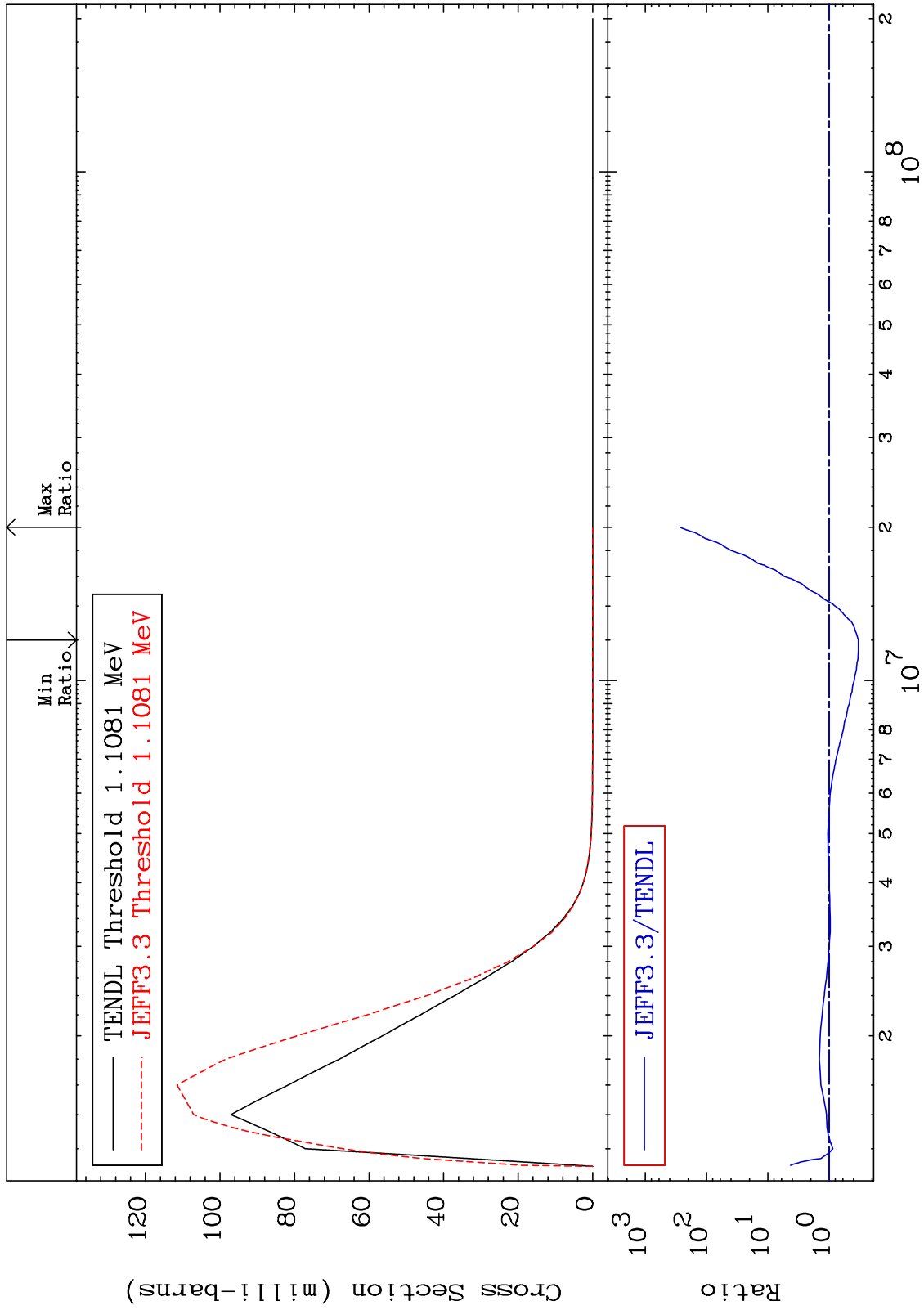
MAT 7243

MT= 54 (n,n') Level  
Cross Section

72-Hf-180  
-97.96 To 3.851 %



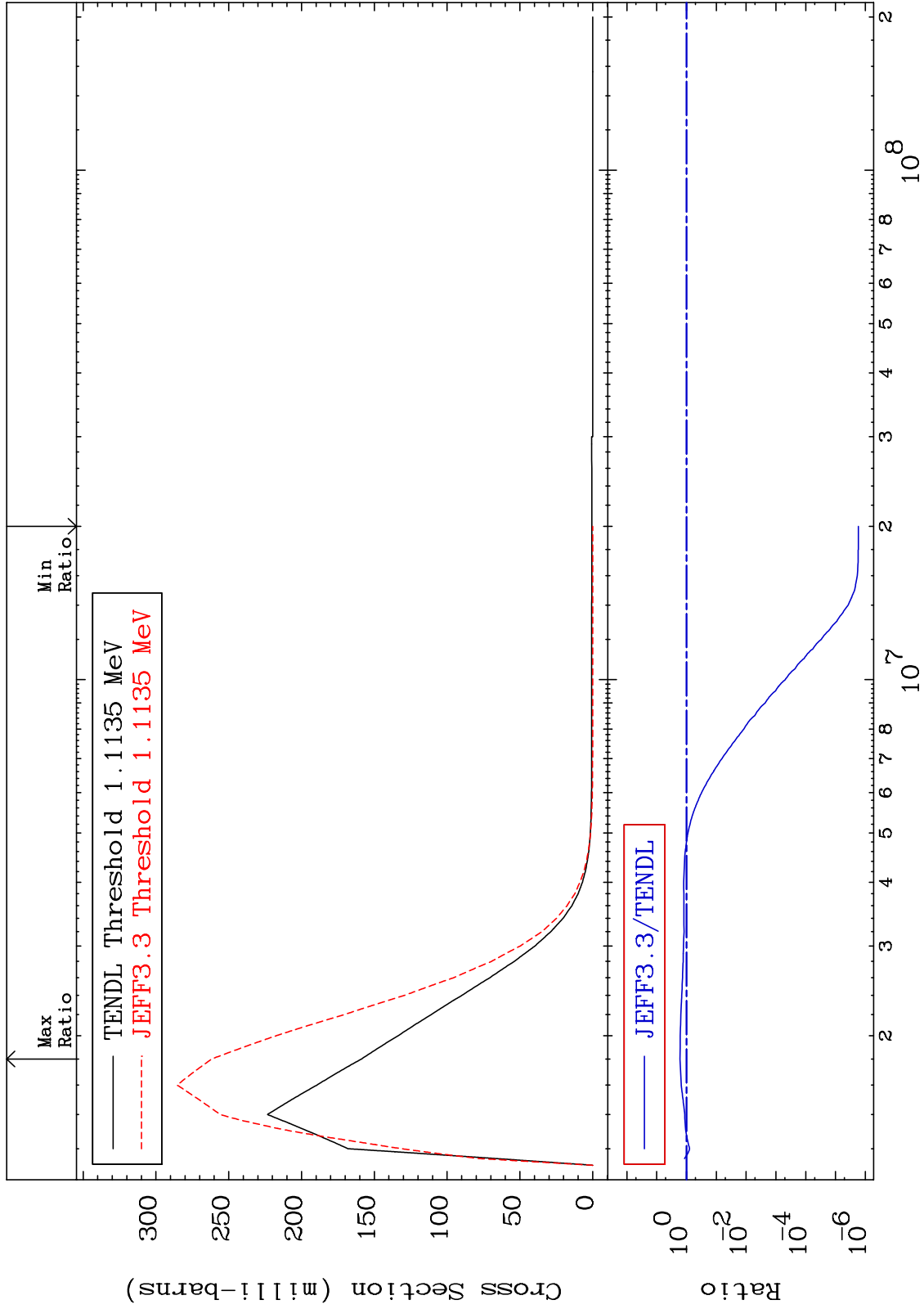
MAT 7243 MT= 55 (n,n') Level Cross Section 72-Hf-180 -66.61 To 9999. %



MAT 7243

MT= 56 (n, n') Level  
Cross Section

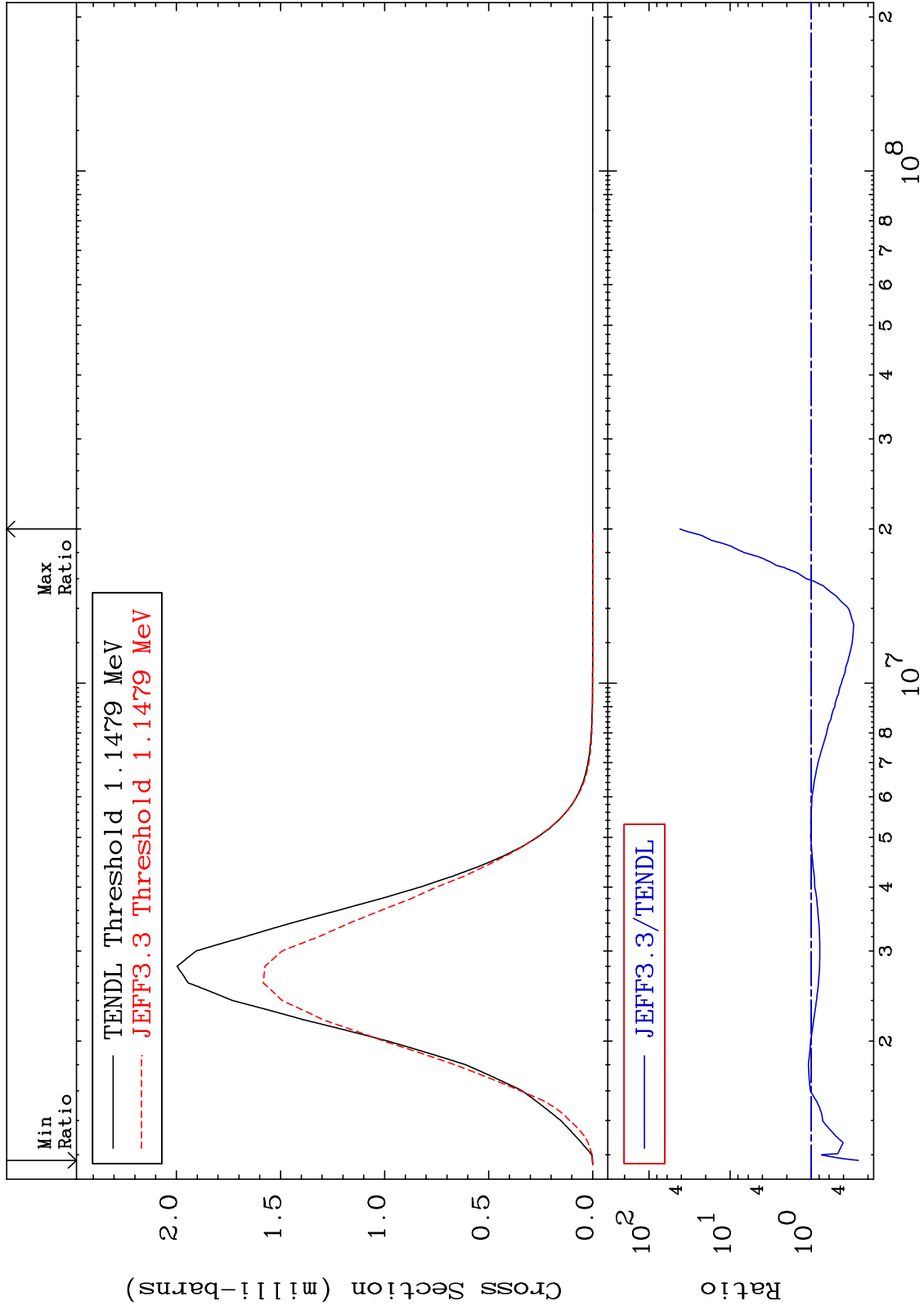
72-Hf-180  
-100.0 To 64.77 %



MAT 7243

MT= 57 (n, n') Level  
Cross Section

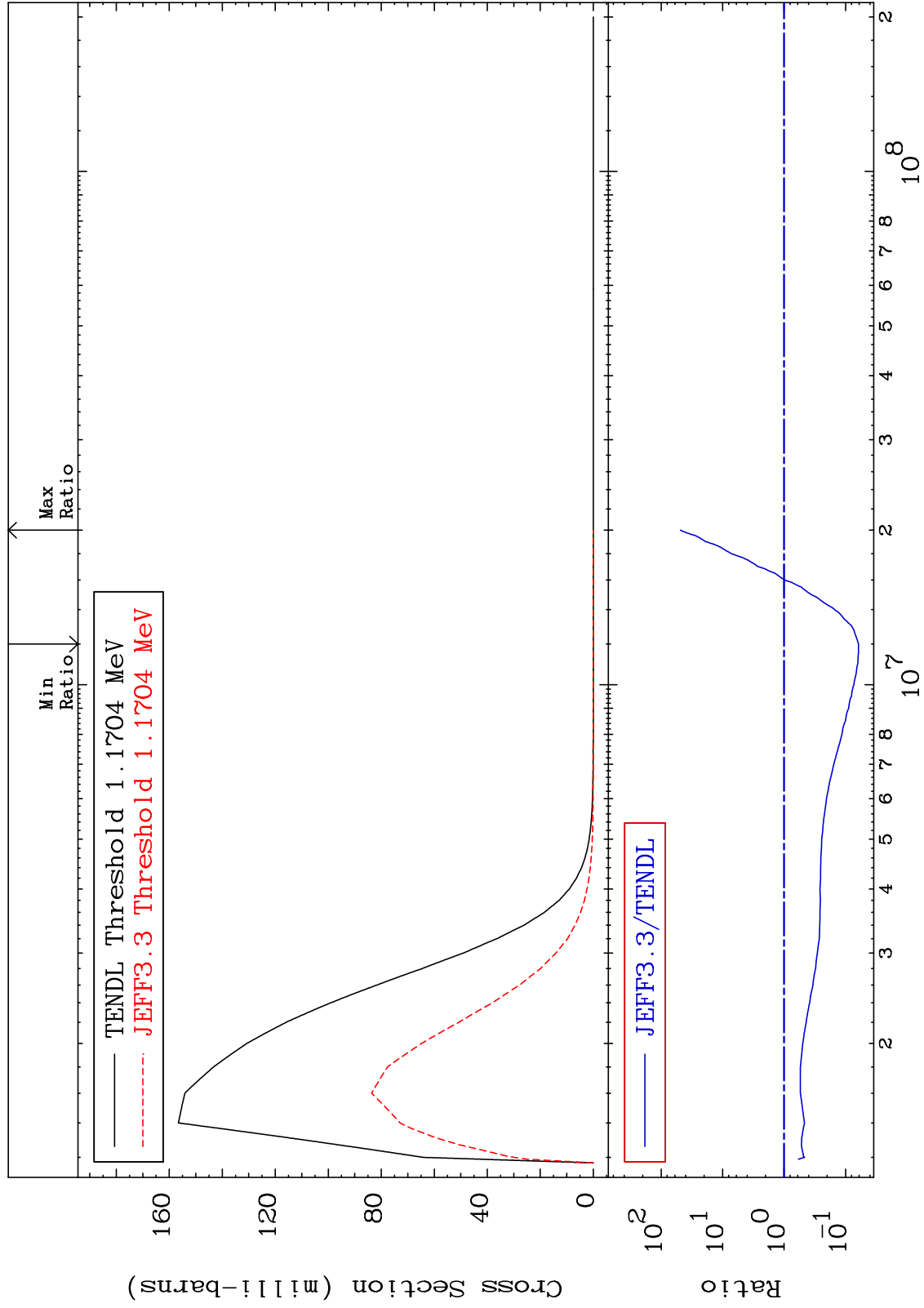
72-Hf-180  
-73.80 To 4050. %



MAT 7243

MT= 58 (n,n') Level  
Cross Section

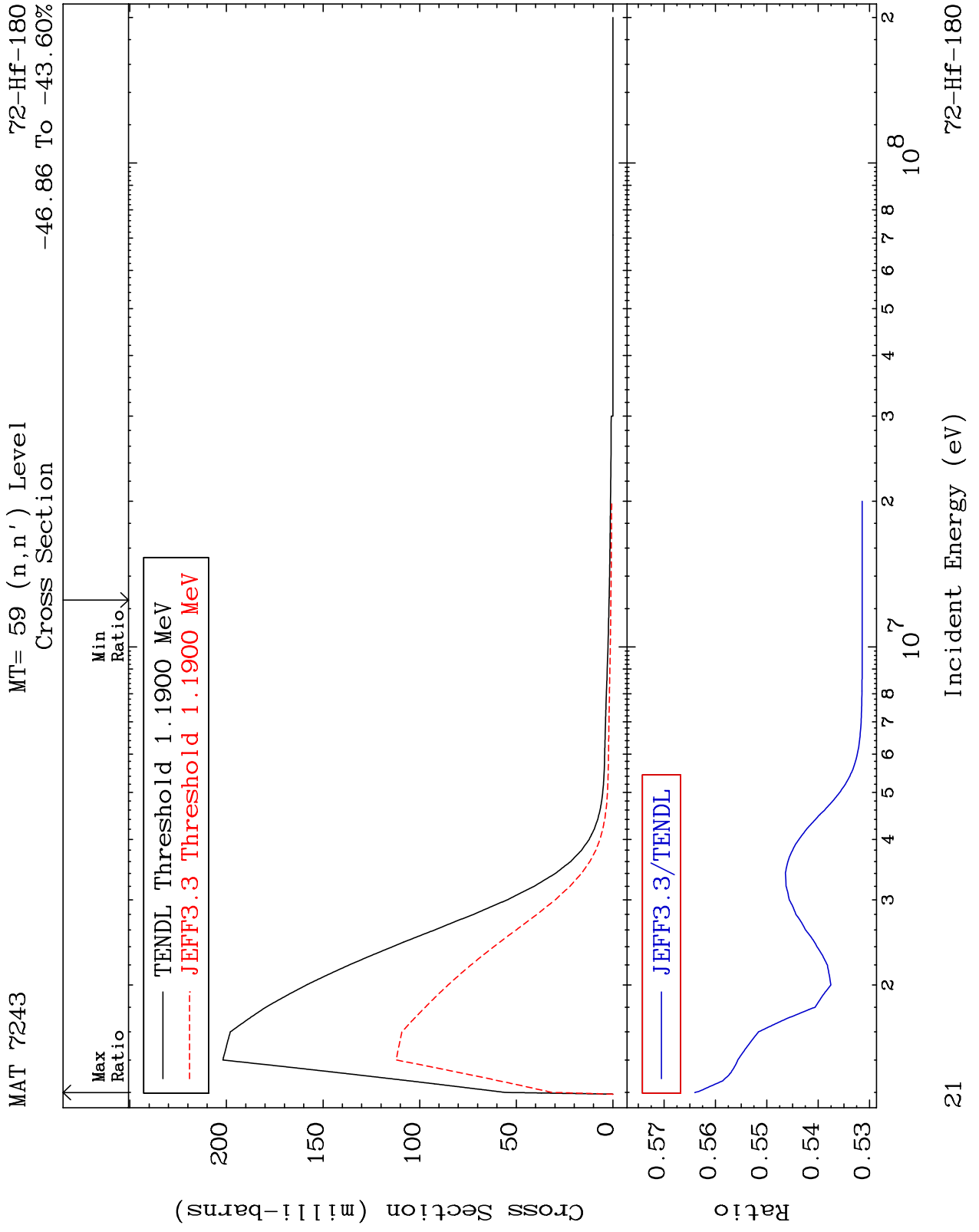
72-Hf-180  
-93.85 To 4764. %



20

Incident Energy (eV)

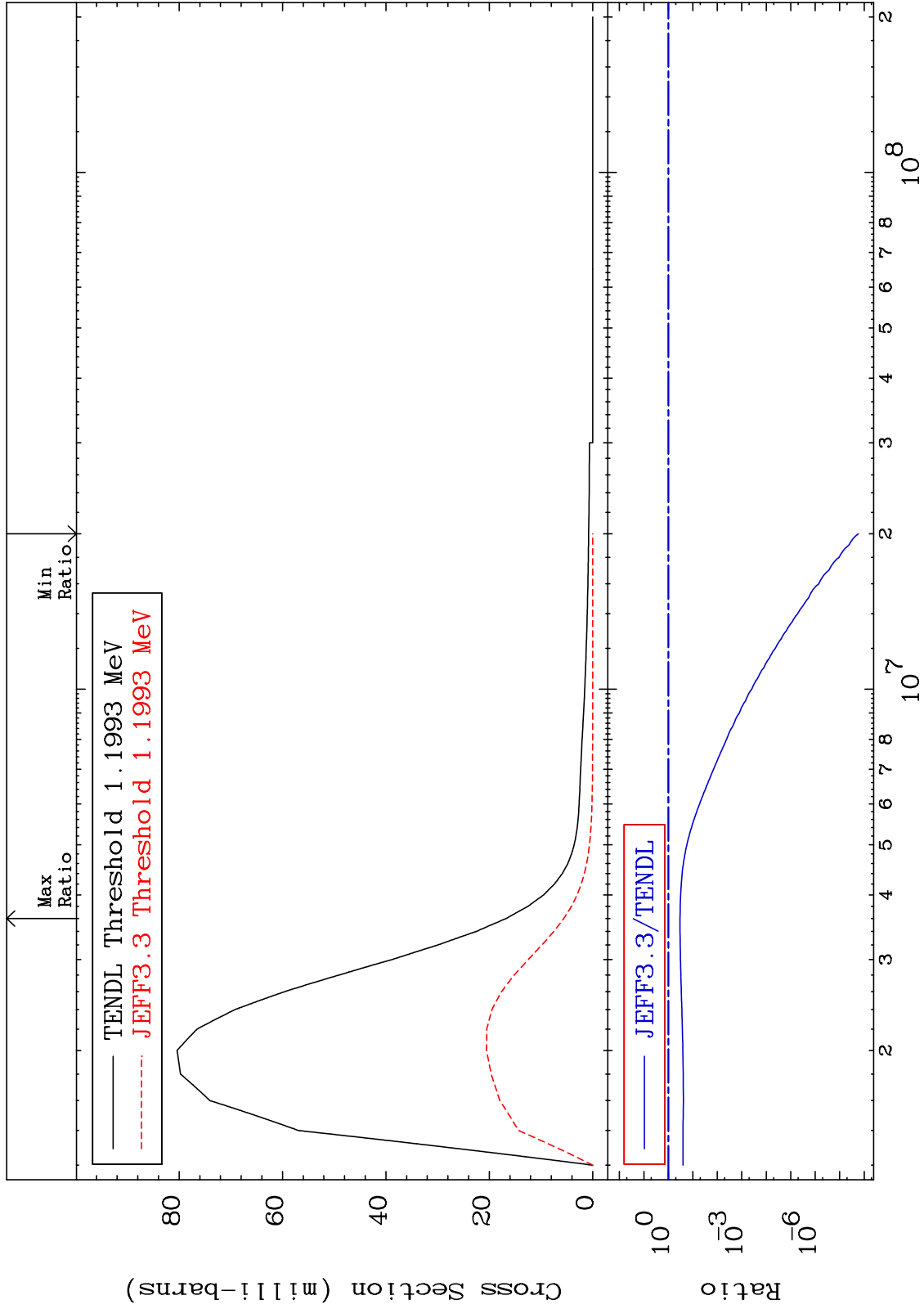
72-Hf-180



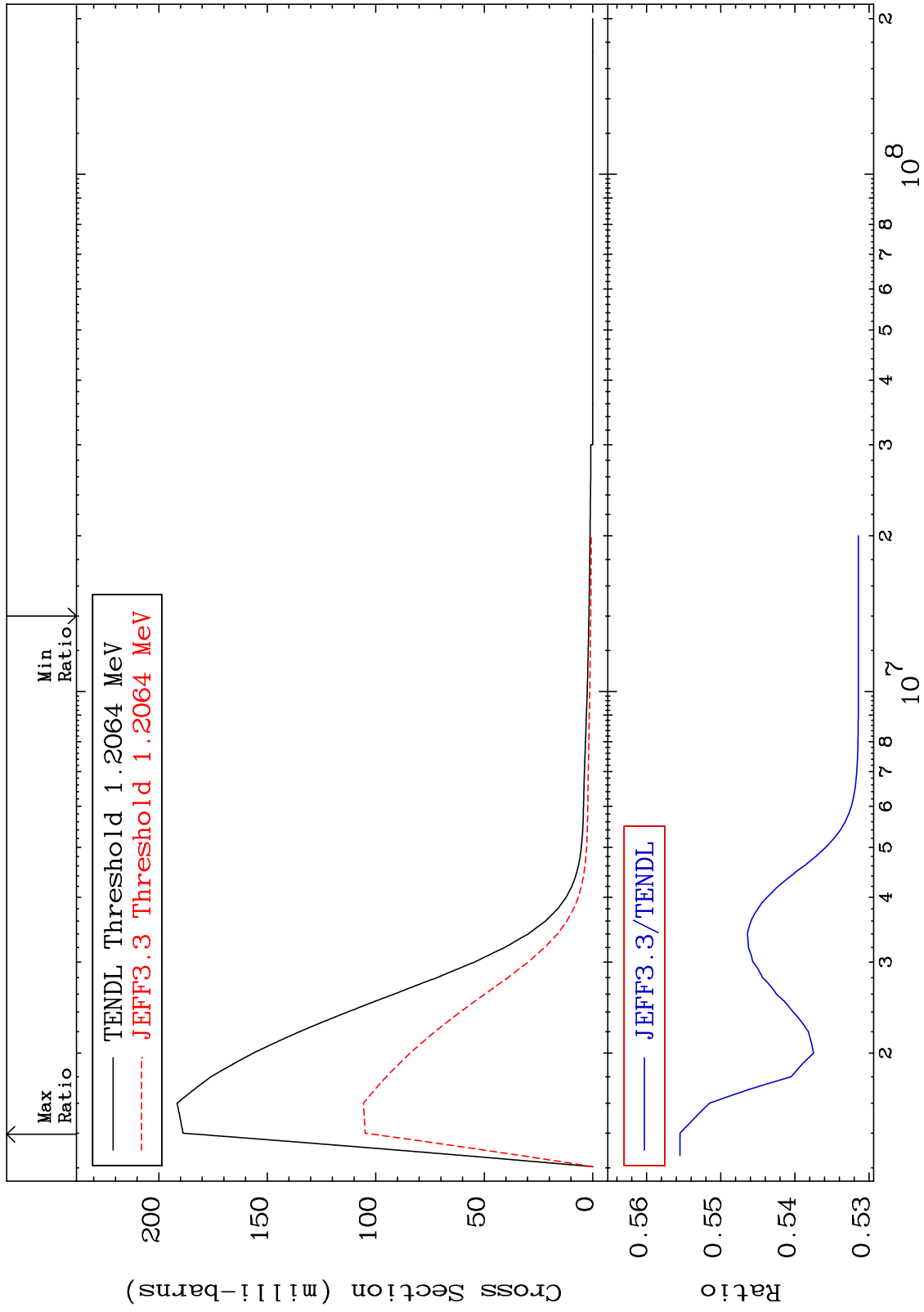
MAT 7243

MT= 60 (n, n') Level  
Cross Section

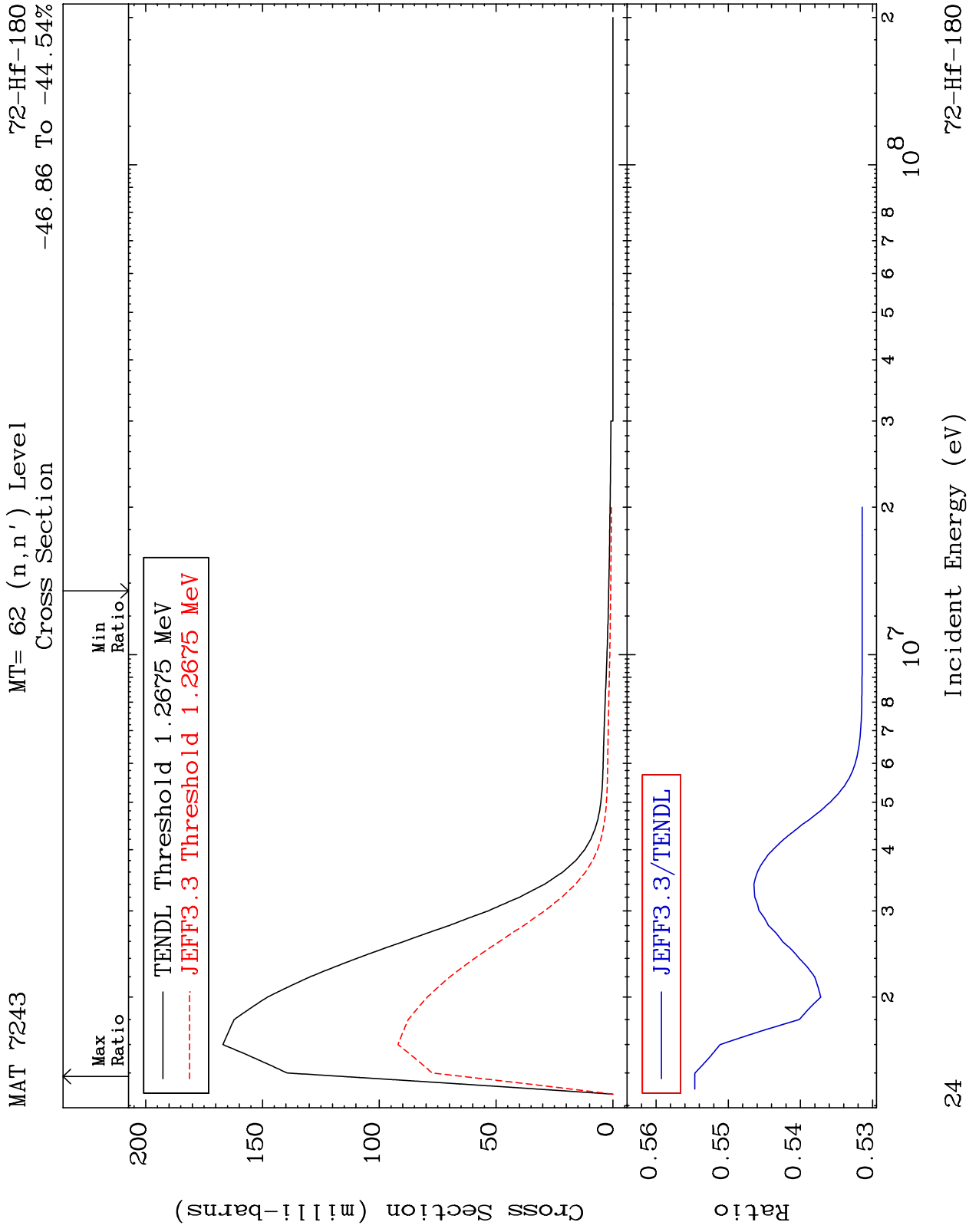
72-Hf-180  
-100.0 To -66.66%



MAT 7243 MT= 61 (n,n') Level  
Cross Section 72-Hf-180  
-46.86 To -44.45%



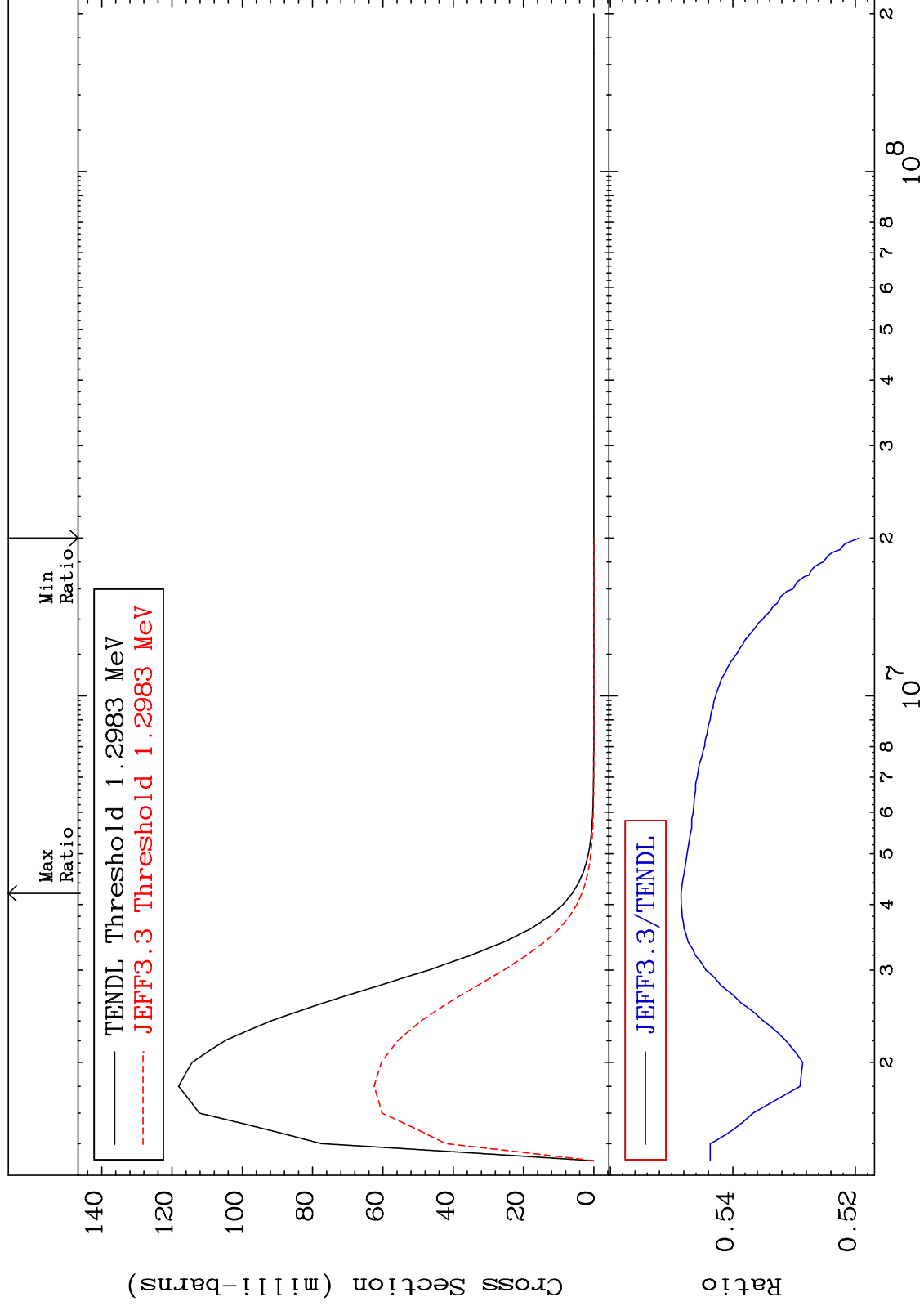




MAT 7243

MT= 63 (n,n') Level  
Cross Section

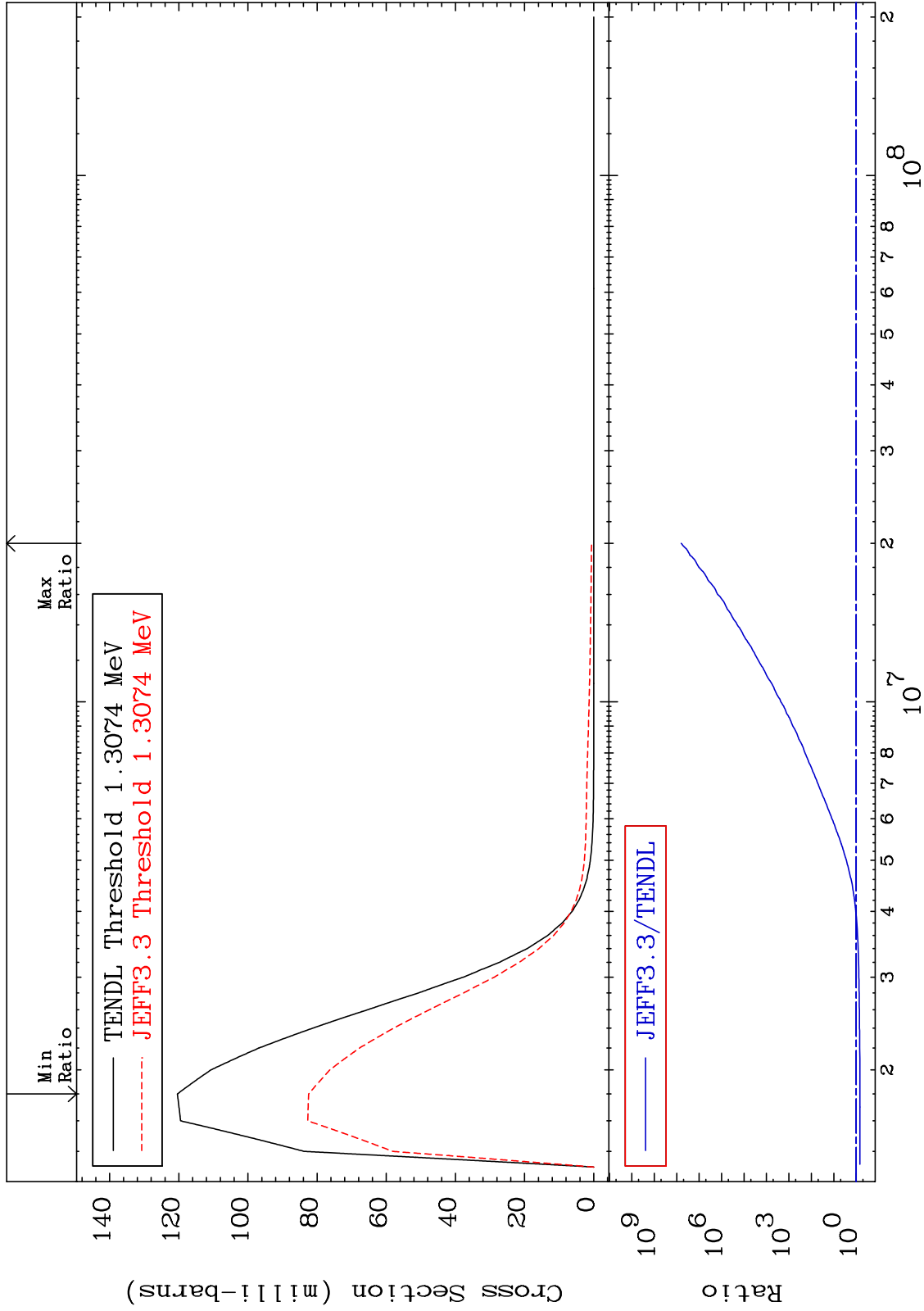
72-Hf-180  
-48.07 To -45.15%



MAT 7243

MT= 64 (n, n') Level  
Cross Section

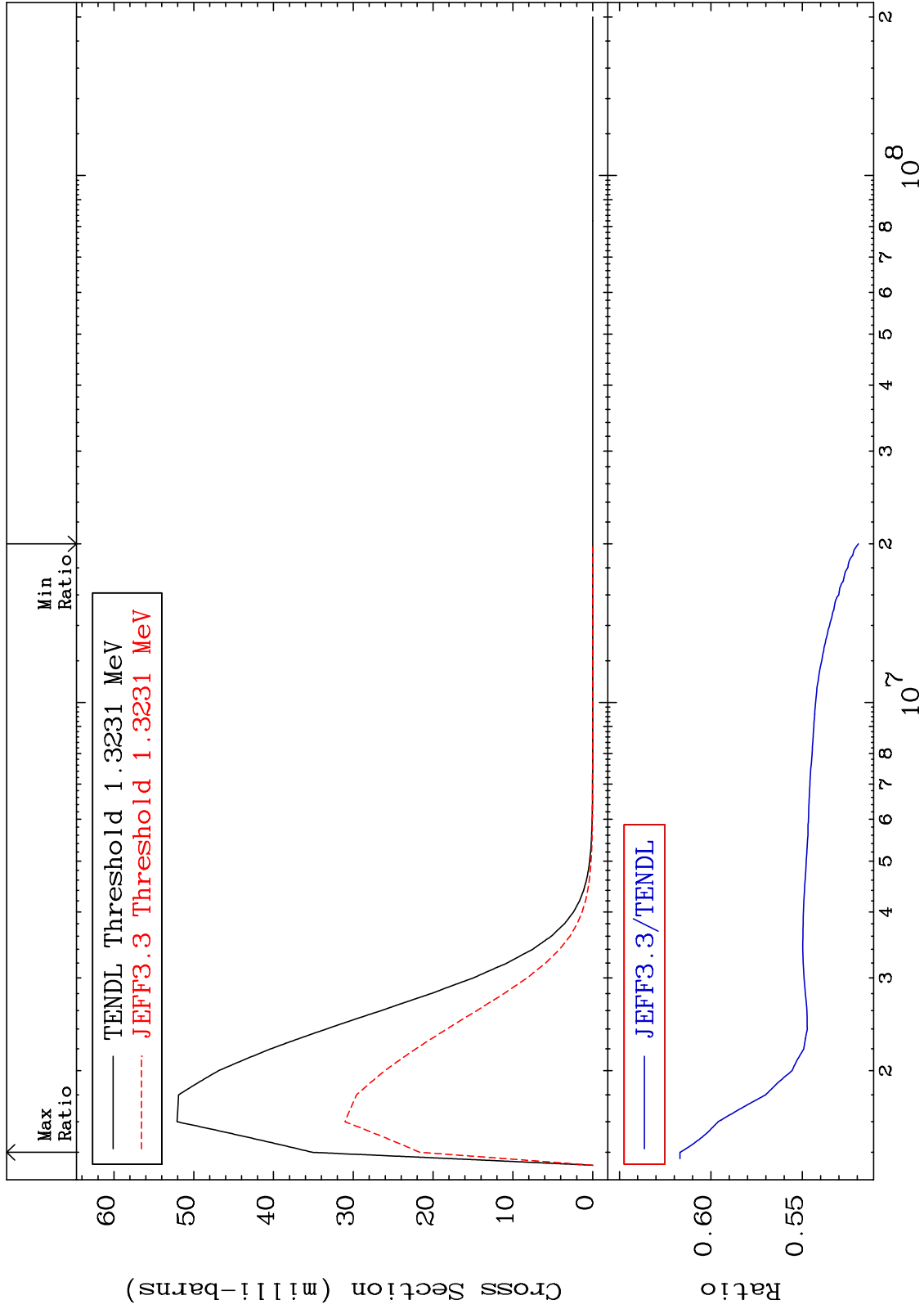
72-Hf-180  
-31.54 To 9999. %



MAT 7243

MT= 65 (n, n') Level  
Cross Section

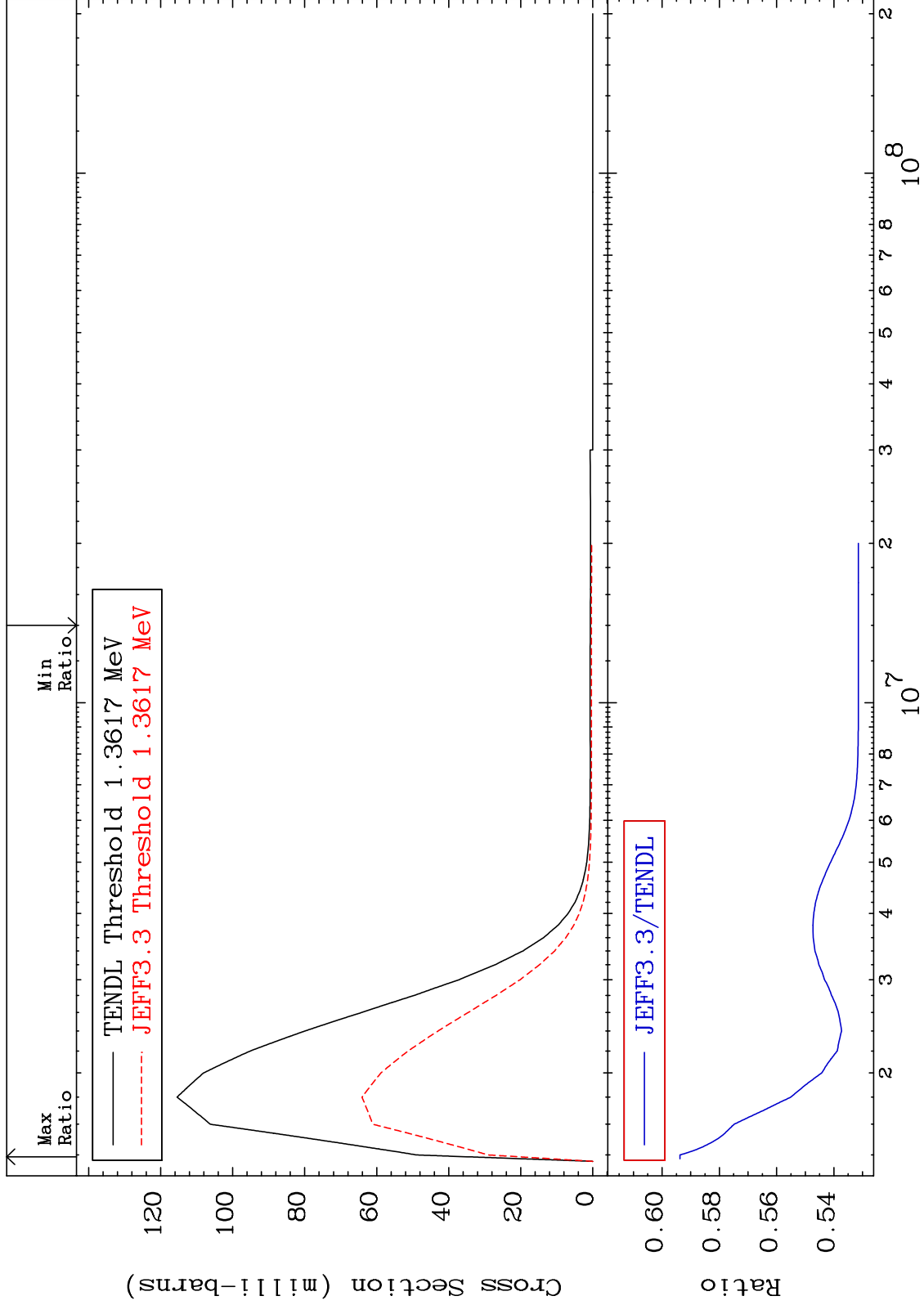
<sup>72</sup>Hf-180  
-48.06 To -38.31%



MAT 7243

MT= 66 (n,n') Level  
Cross Section

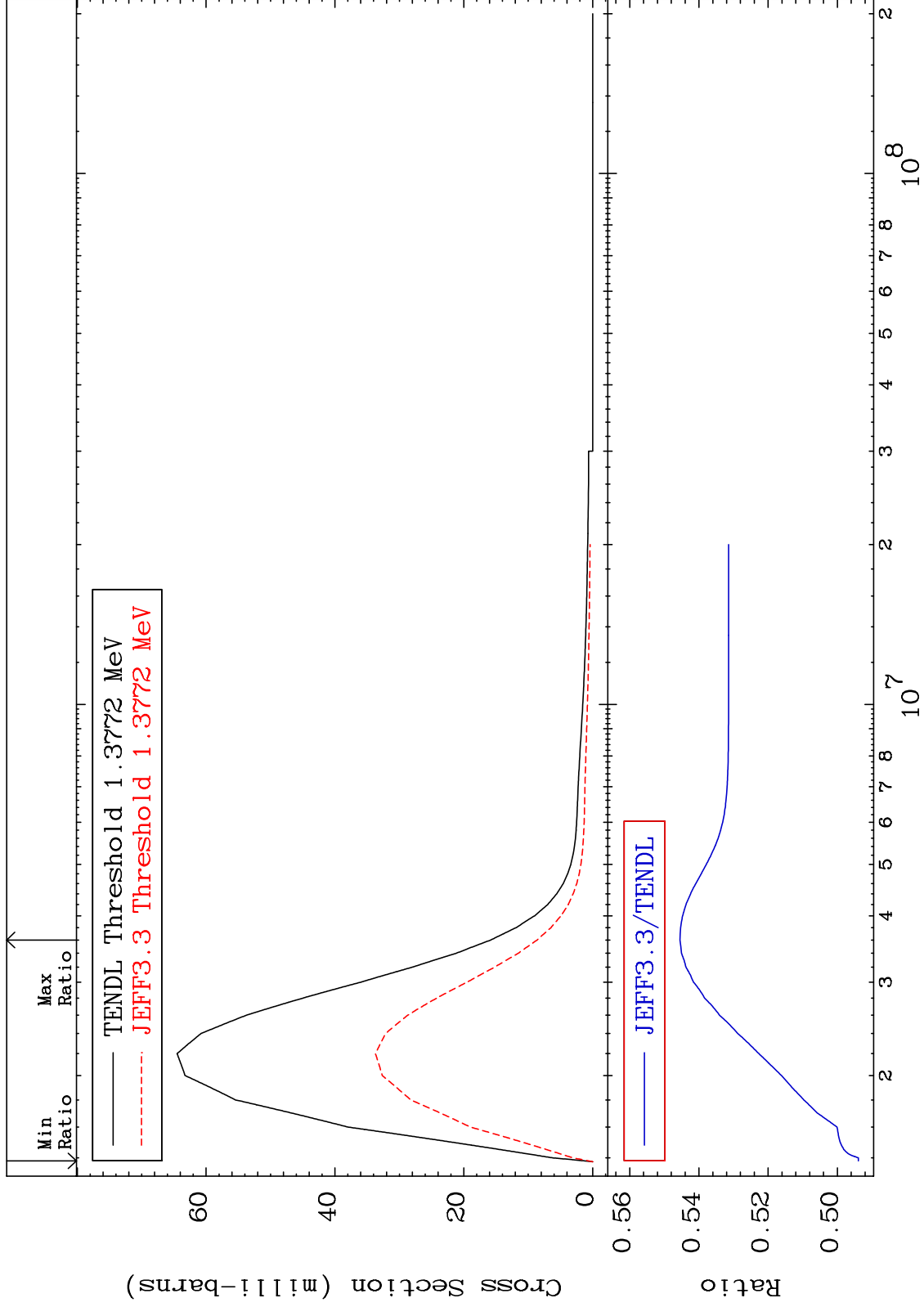
72-Hf-180  
-46.86 To -40.63%



MAT 7243

MT= 67 (n, n') Level  
Cross Section

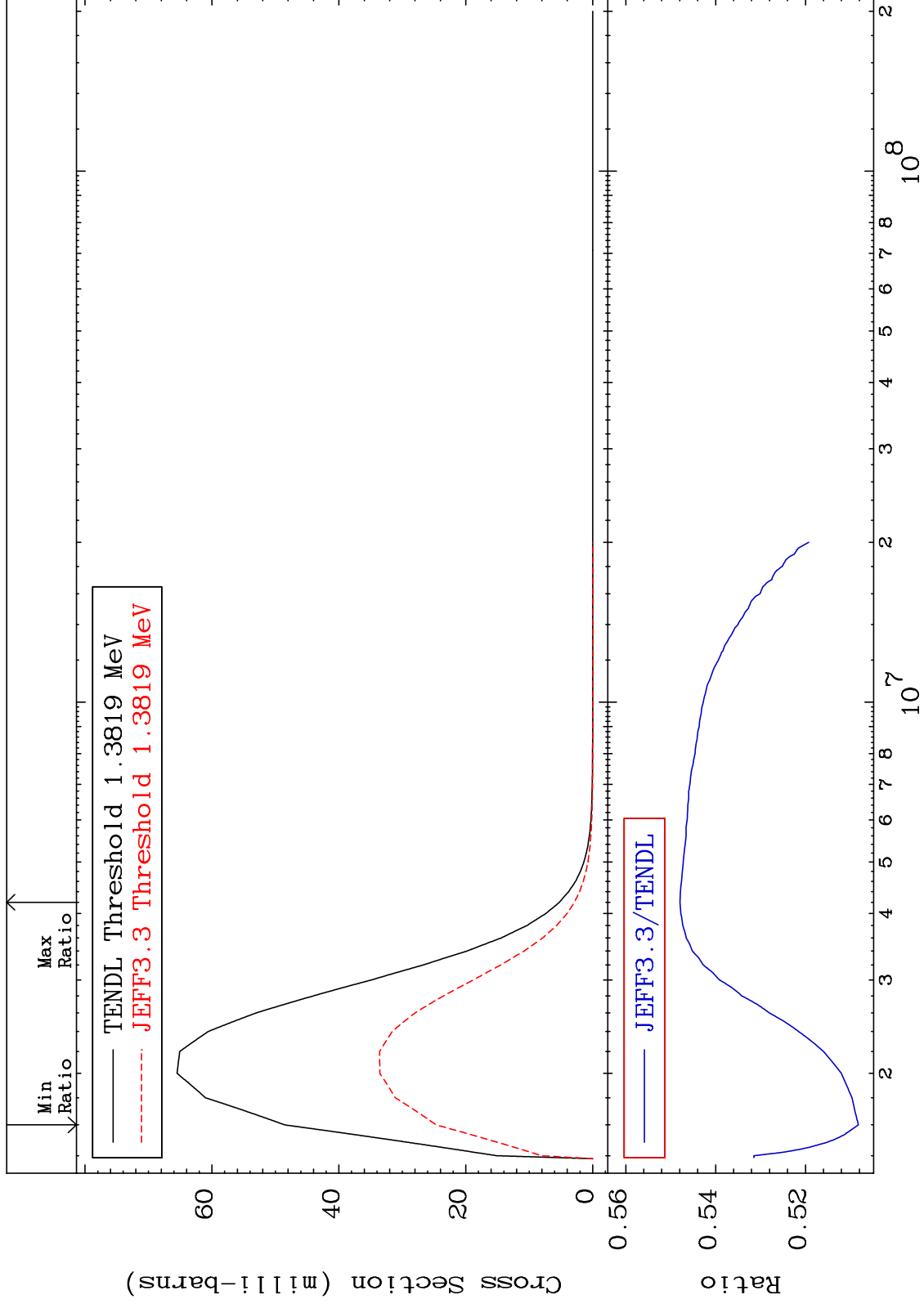
72-Hf-180  
-50.61 To -45.45%



MAT 7243

MT= 68 (n, n') Level  
Cross Section

<sup>72</sup>Hf-180  
-49.18 To -45.21%



30

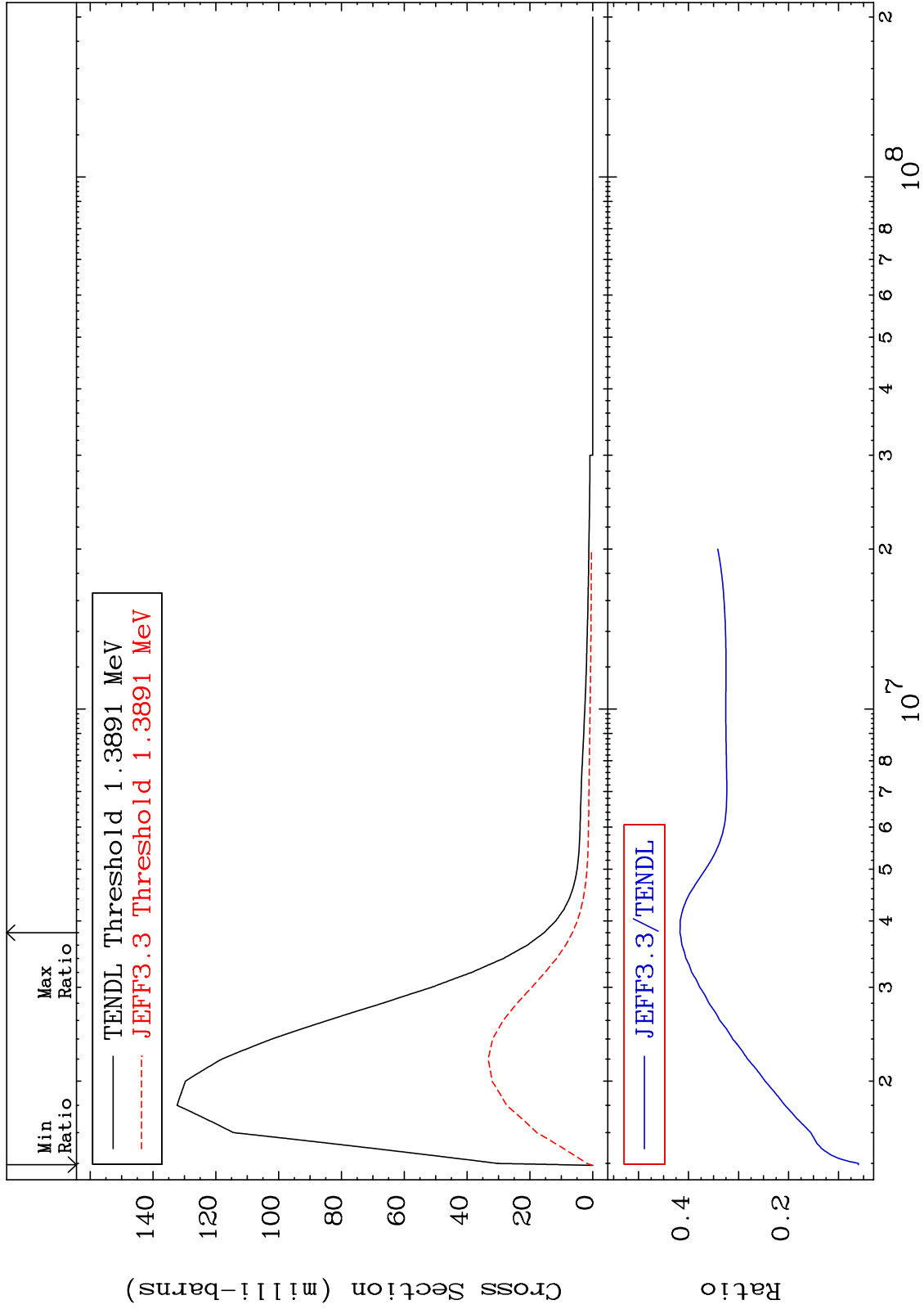
Incident Energy (eV)

<sup>72</sup>Hf-180

MAT 7243

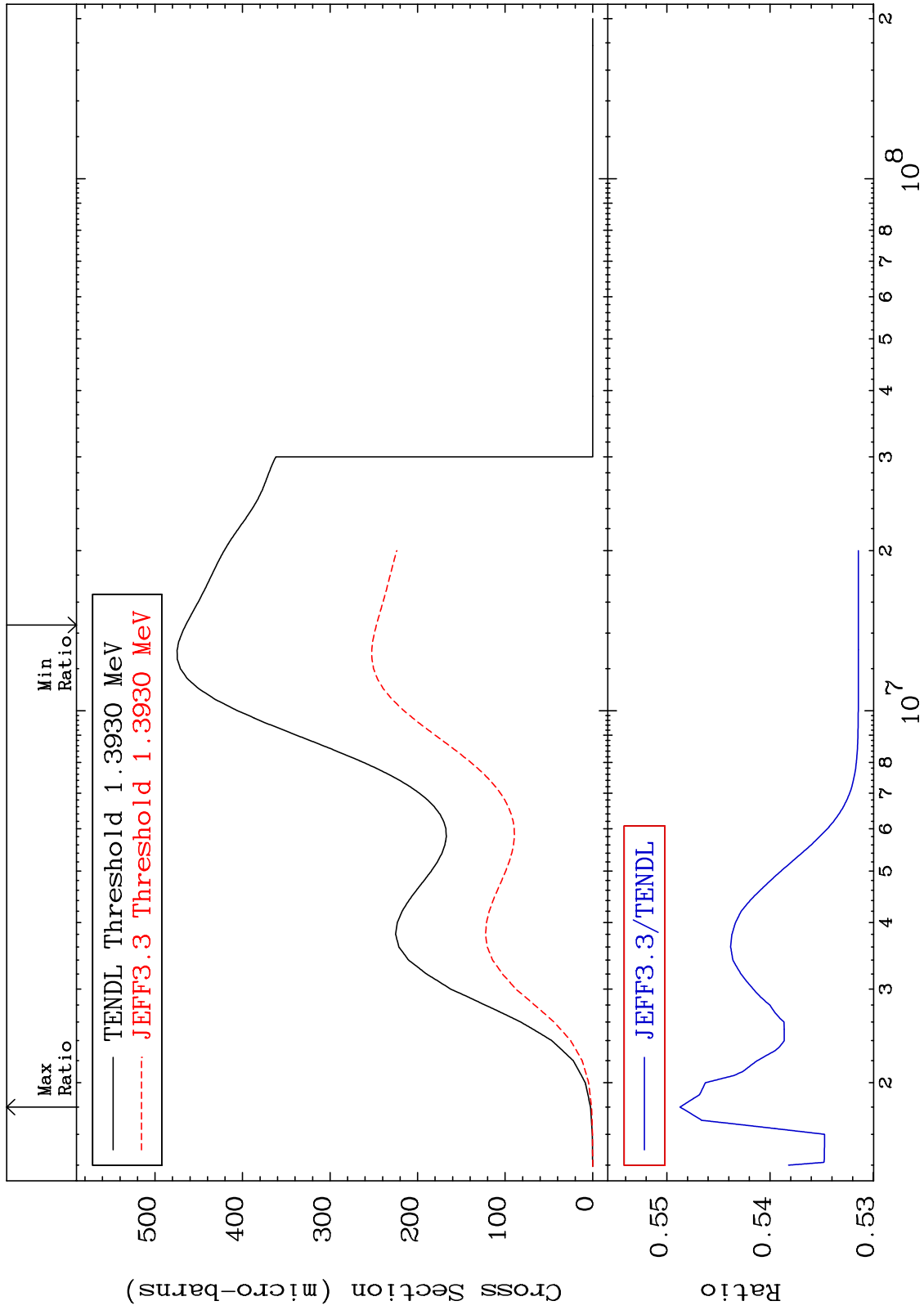
MT= 69 (n,n') Level  
Cross Section

<sup>72</sup>Hf-180  
-93.98 To -58.29%





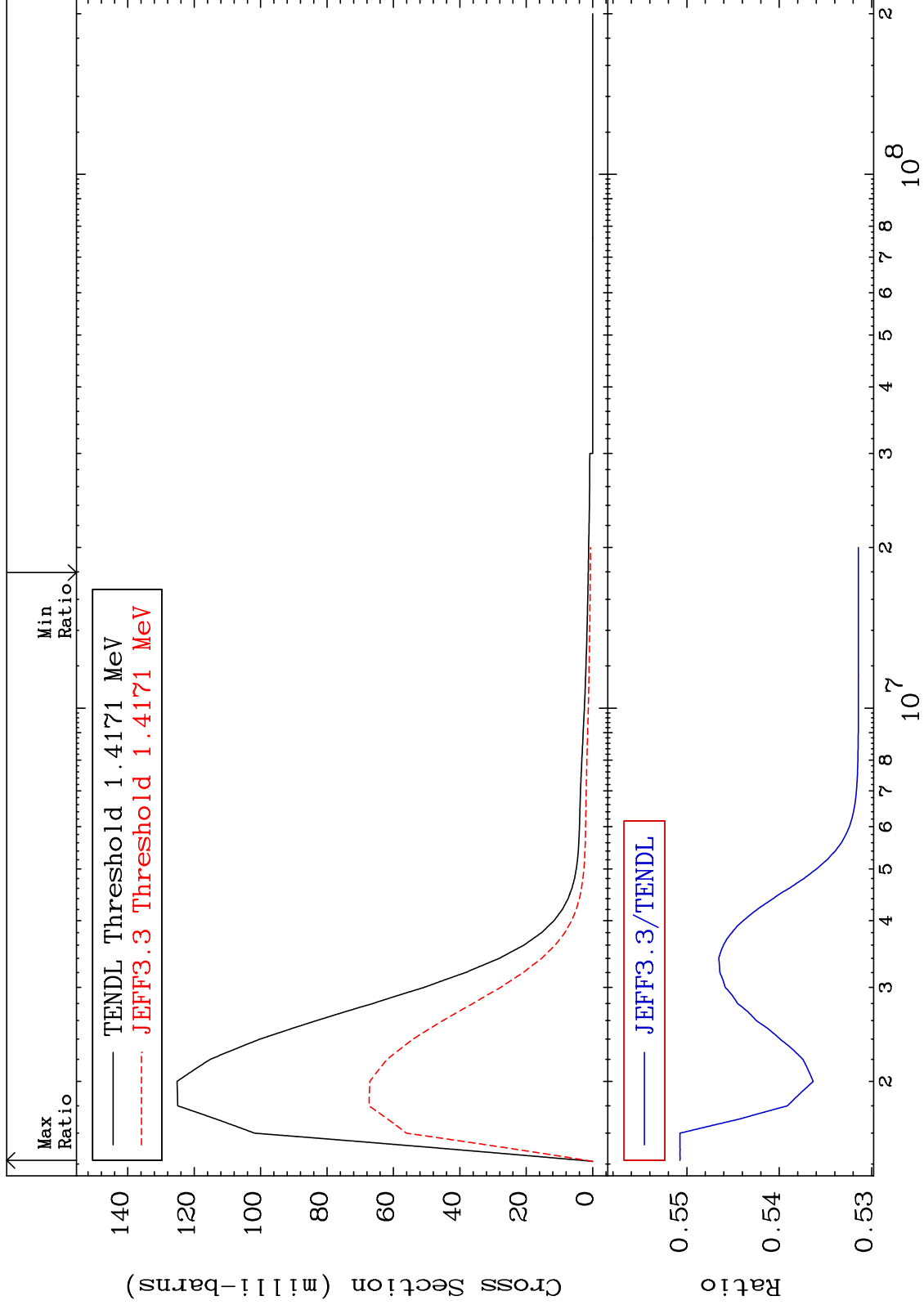
MAT 7243      MT= 70 (n,n') Level Cross Section      <sup>72</sup>Hf-180  
 -46.86 To -45.13%



MAT 7243

MT= 71 (n,n') Level  
Cross Section

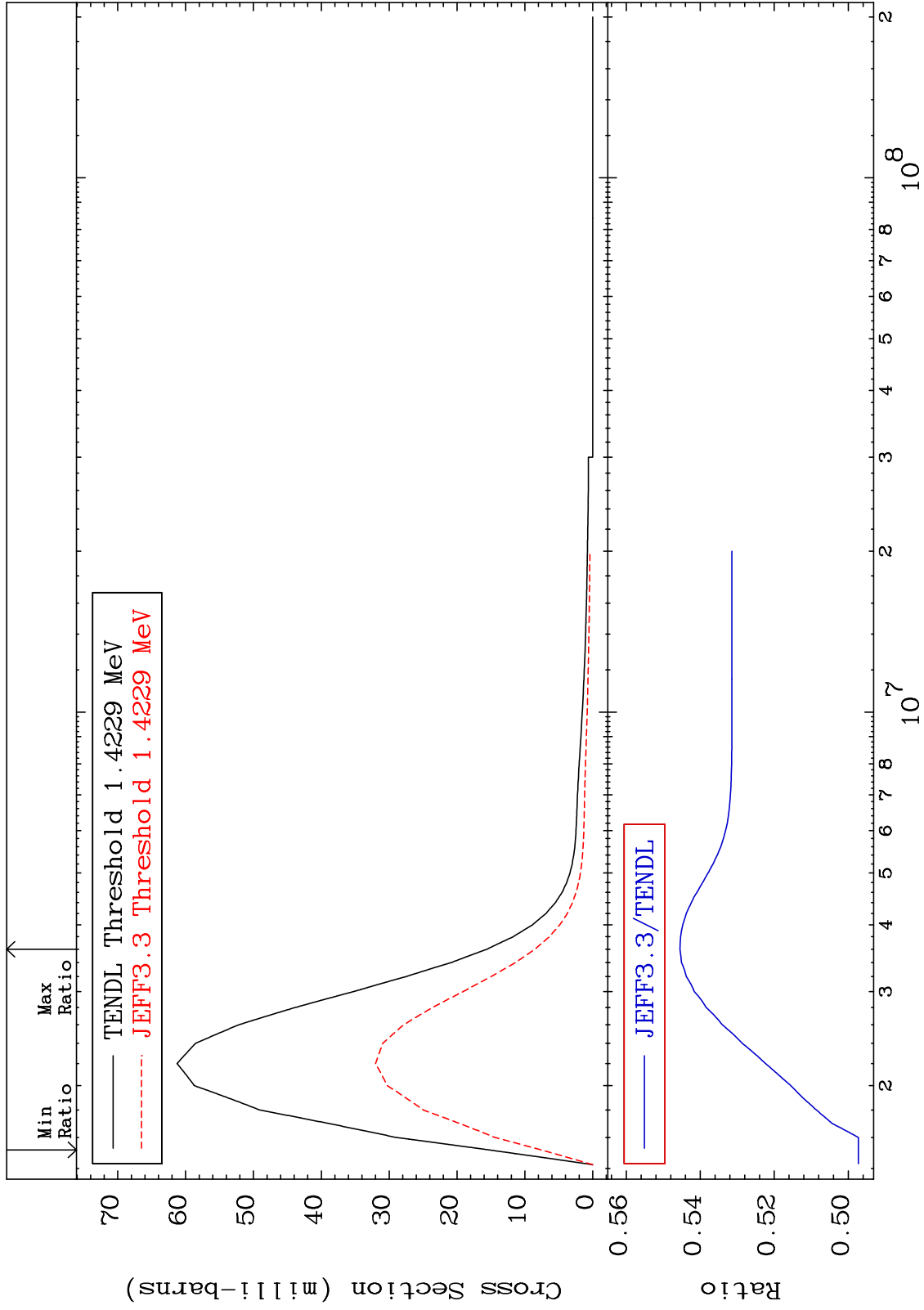
72-Hf-180  
-46.86 To -44.93%



MAT 7243

MT= 72 (n,n') Level  
Cross Section

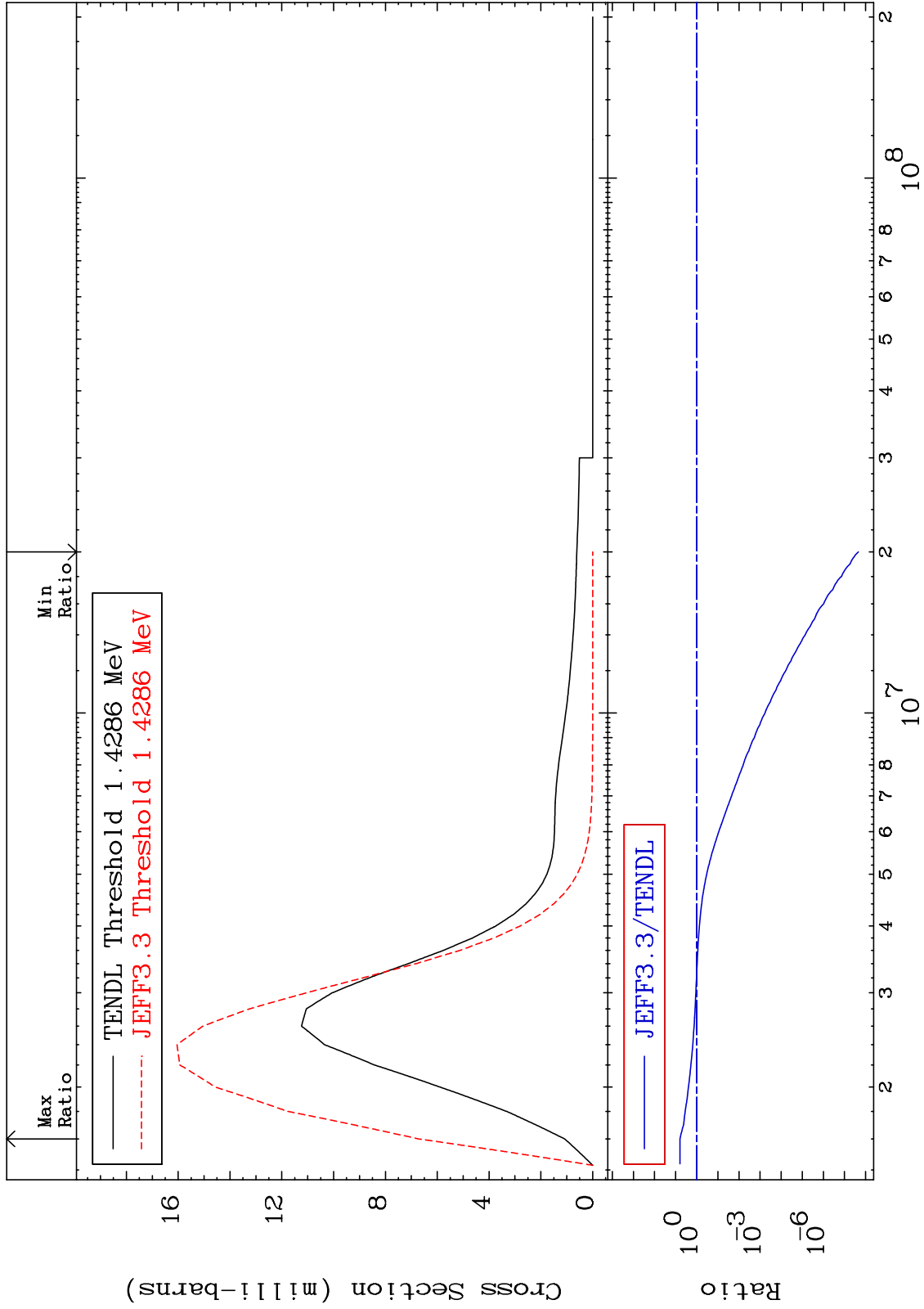
72-Hf-180  
-50.27 To -45.45%



MAT 7243

MT= 73 (n, n') Level  
Cross Section

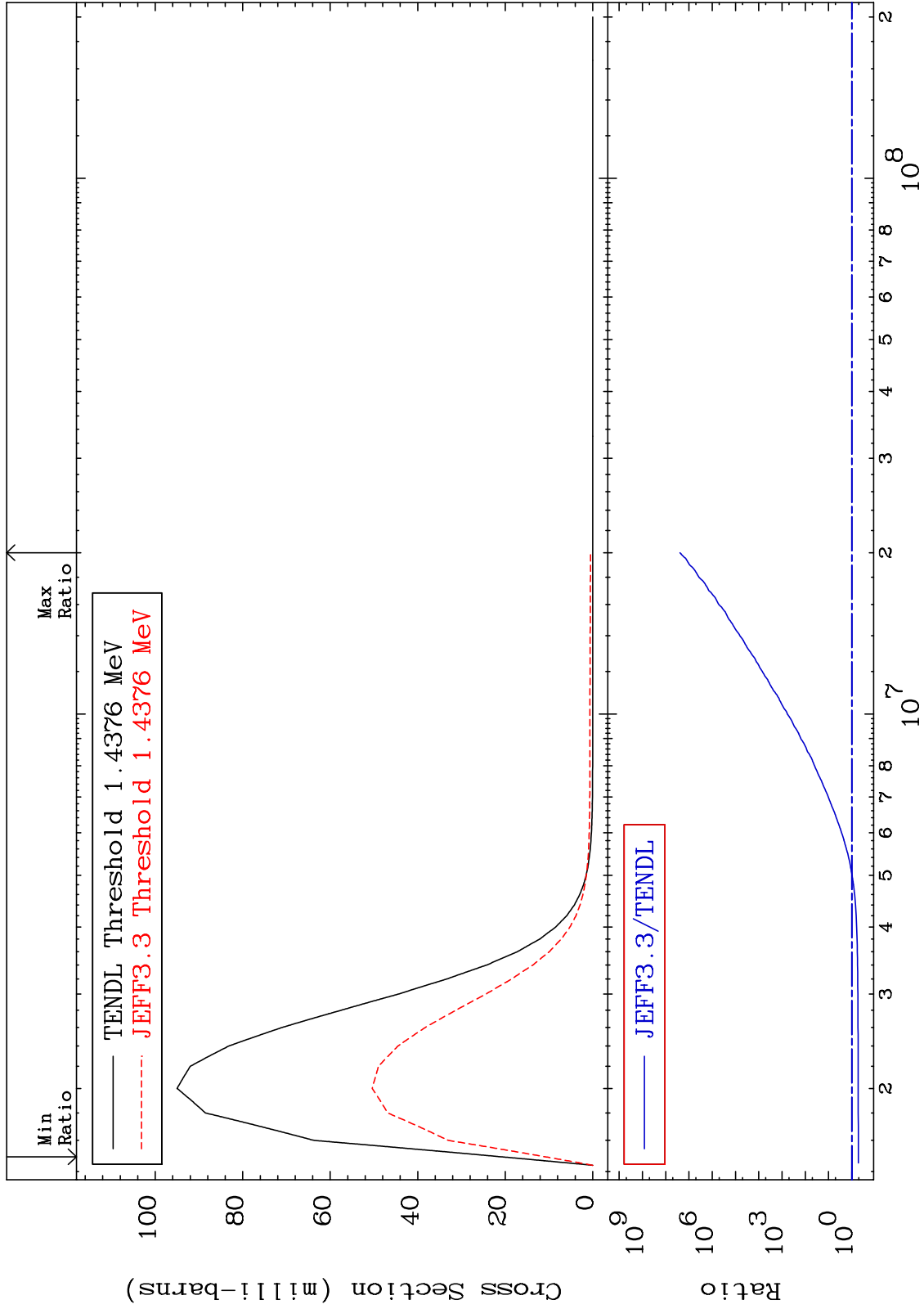
72-Hf-180  
-100.0 To 520.0 %



MAT 7243

MT= 74 (n,n') Level  
Cross Section

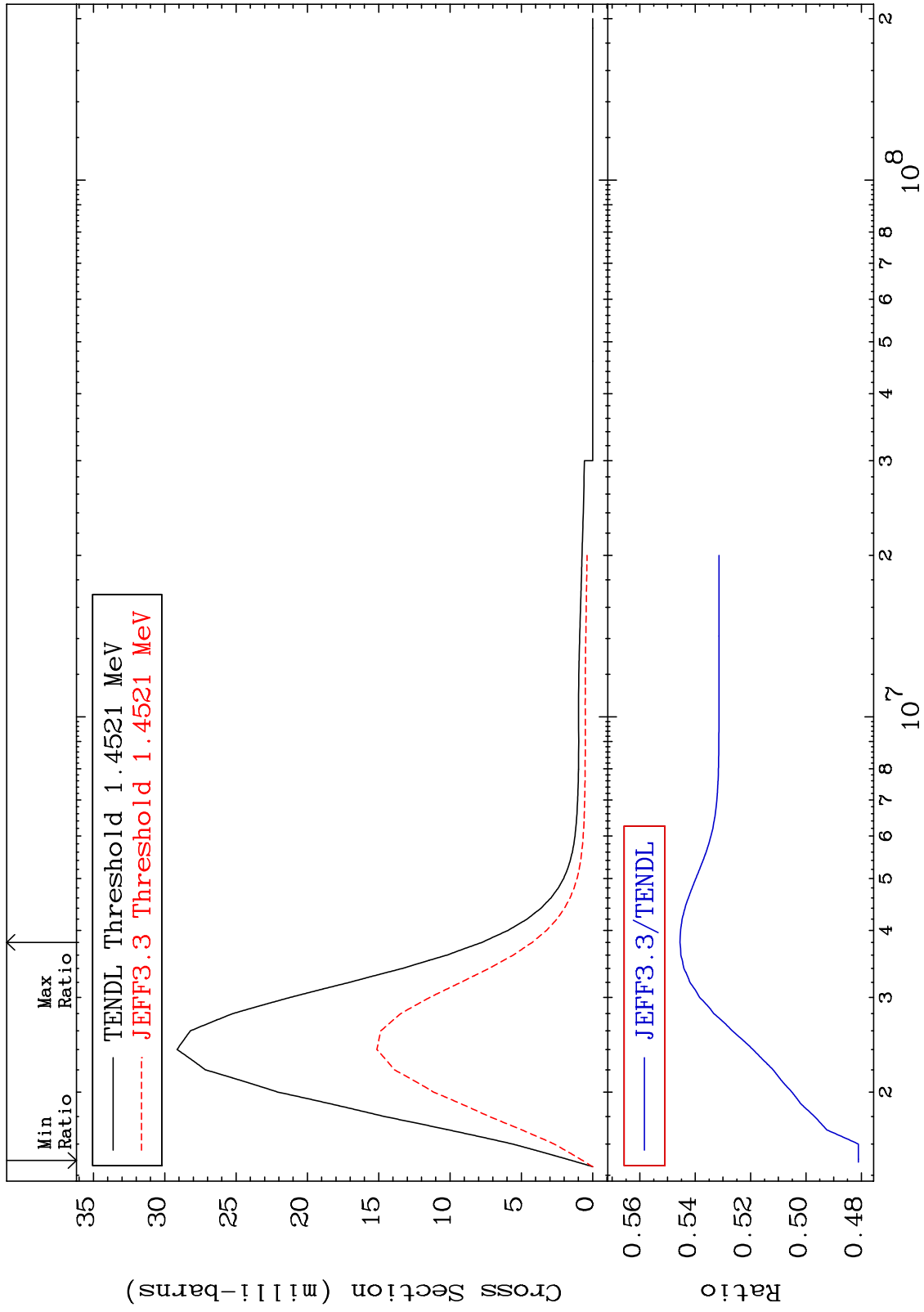
72-Hf-180  
-48.17 To 9999. %



MAT 7243

MT= 75 (n,n') Level  
Cross Section

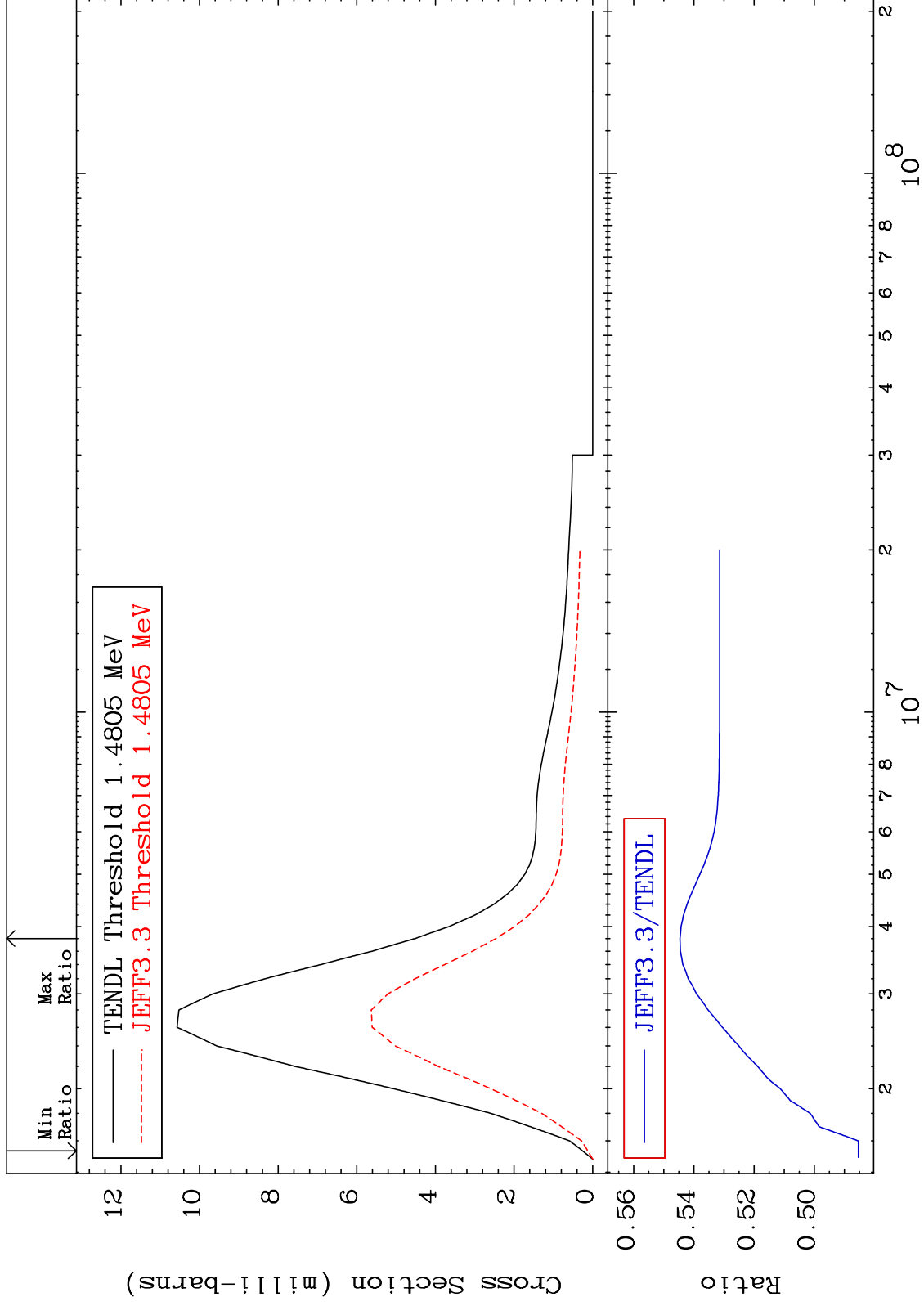
72-Hf-180  
-51.89 To -45.45%



MAT 7243

MT= 76 (n,n') Level  
Cross Section

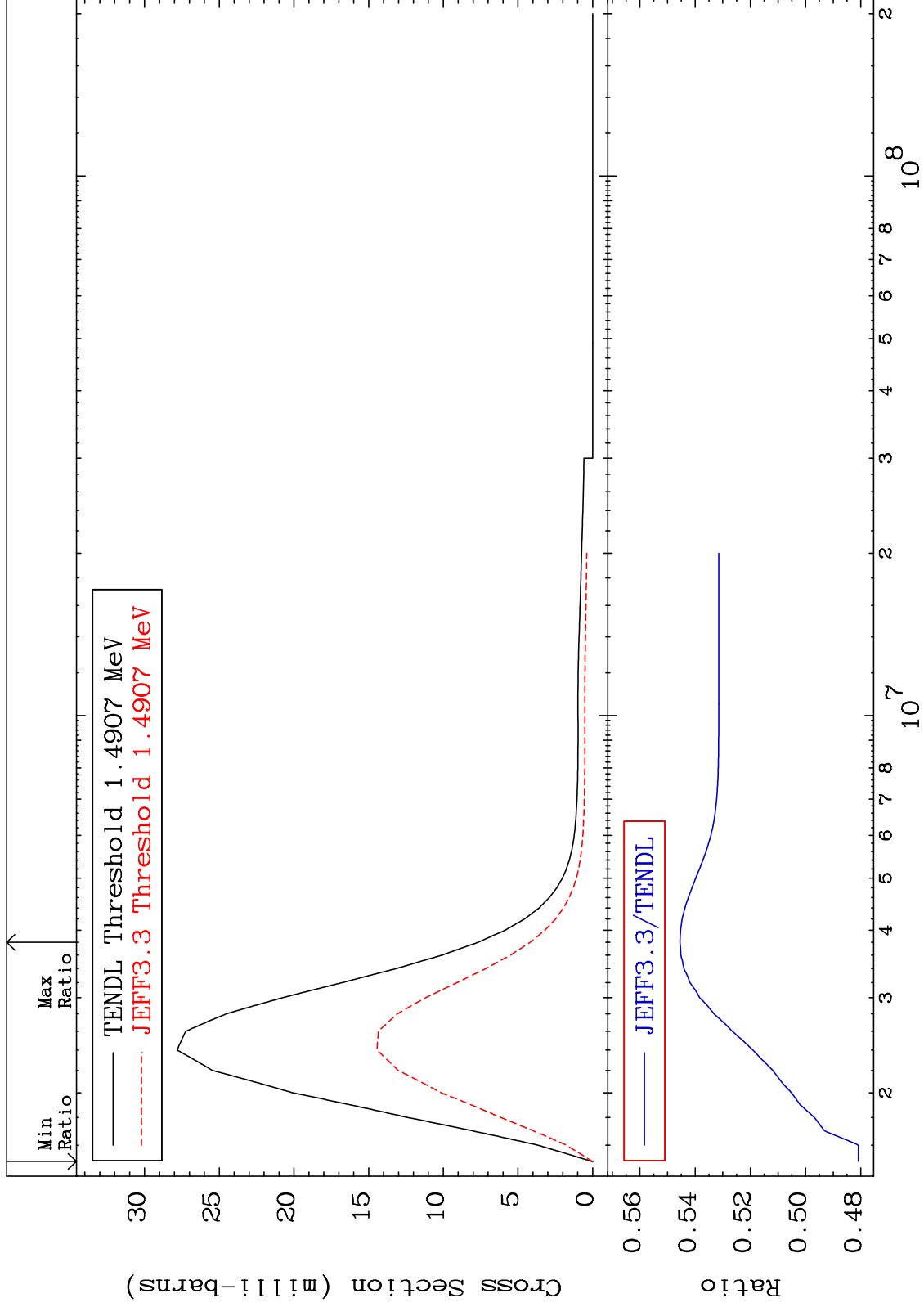
72-Hf-180  
-51.47 To -45.54%



MAT 7243

MT= 77 (n,n') Level  
Cross Section

72-Hf-180  
-51.91 To -45.45%

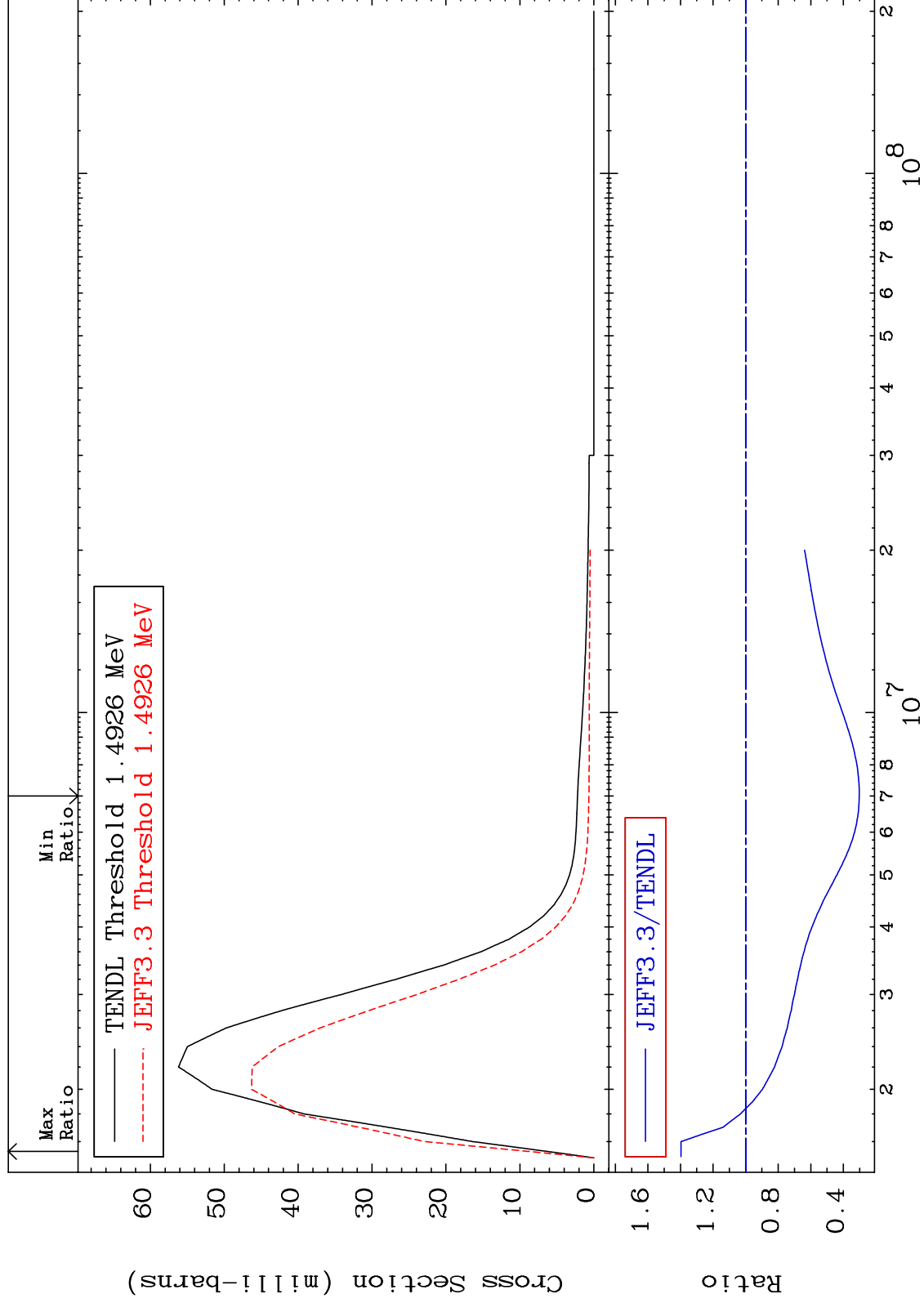




MAT 7243

MT= 78 (n,n') Level  
Cross Section

72-Hf-180  
-69.79 To 39.66 %



40

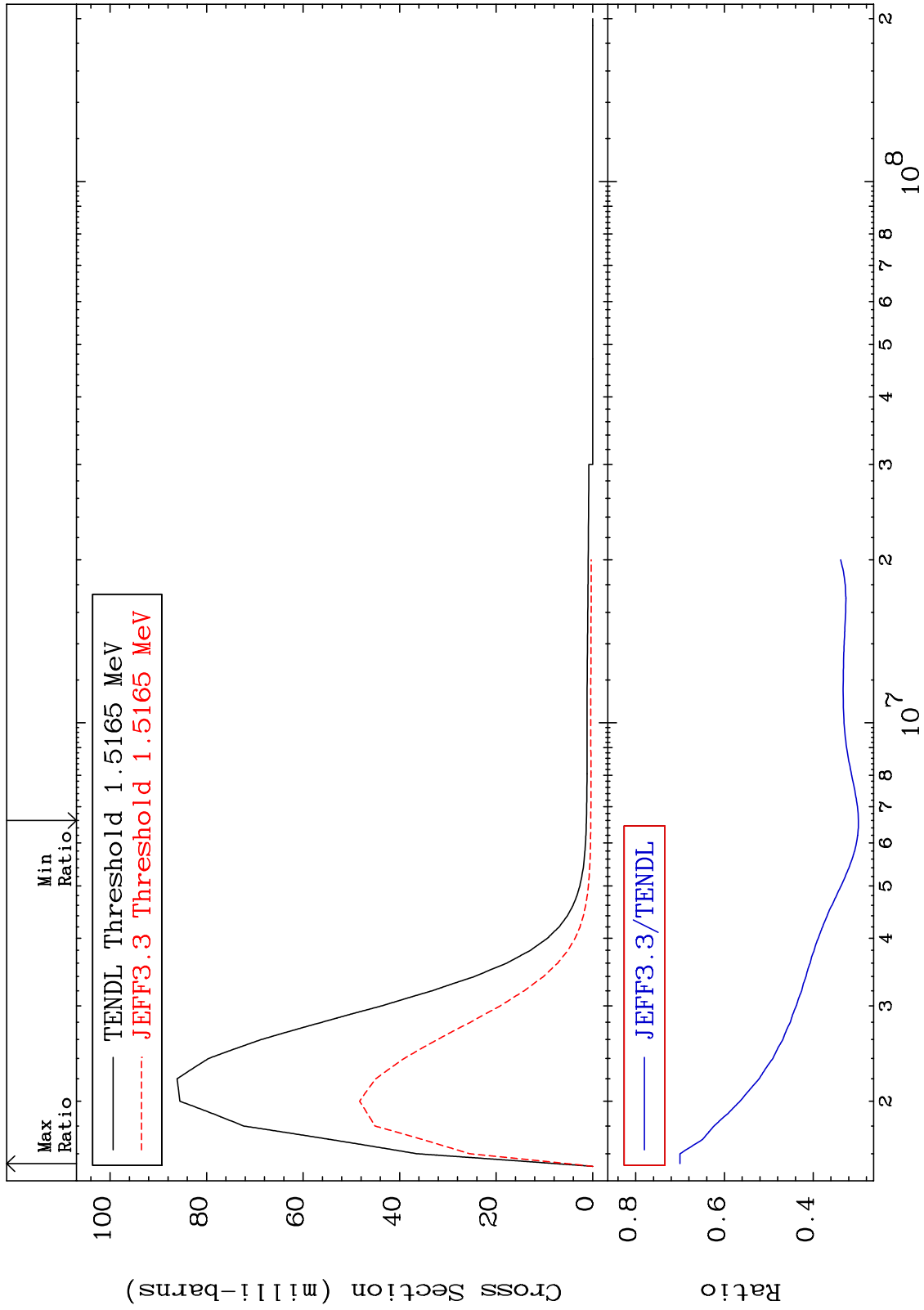
Incident Energy (eV)

72-Hf-180

MAT 7243

MT= 79 (n,n') Level  
Cross Section

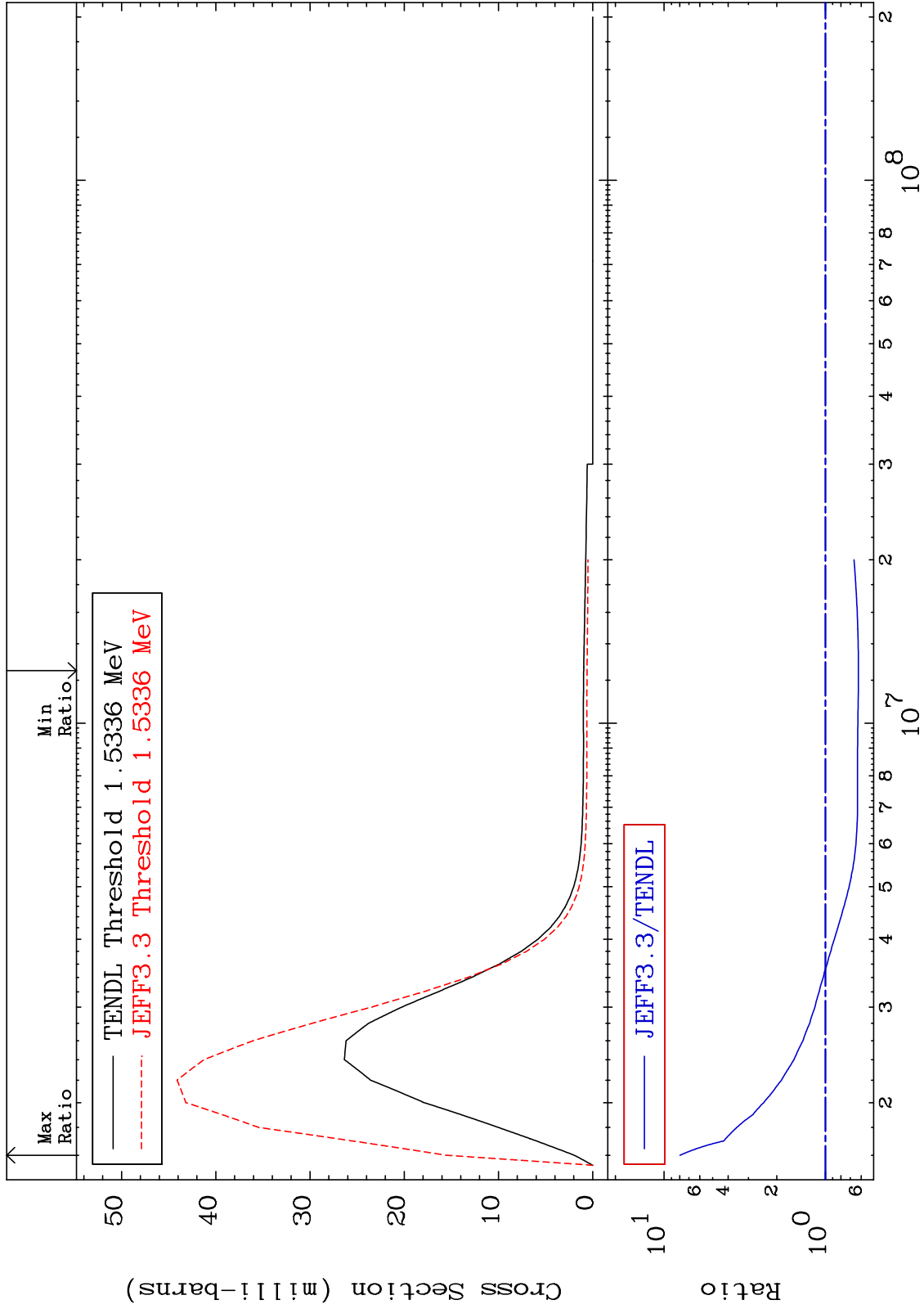
<sup>72</sup>Hf-180  
-70.20 To -29.98%



MAT 7243

MT= 80 (n,n') Level  
Cross Section

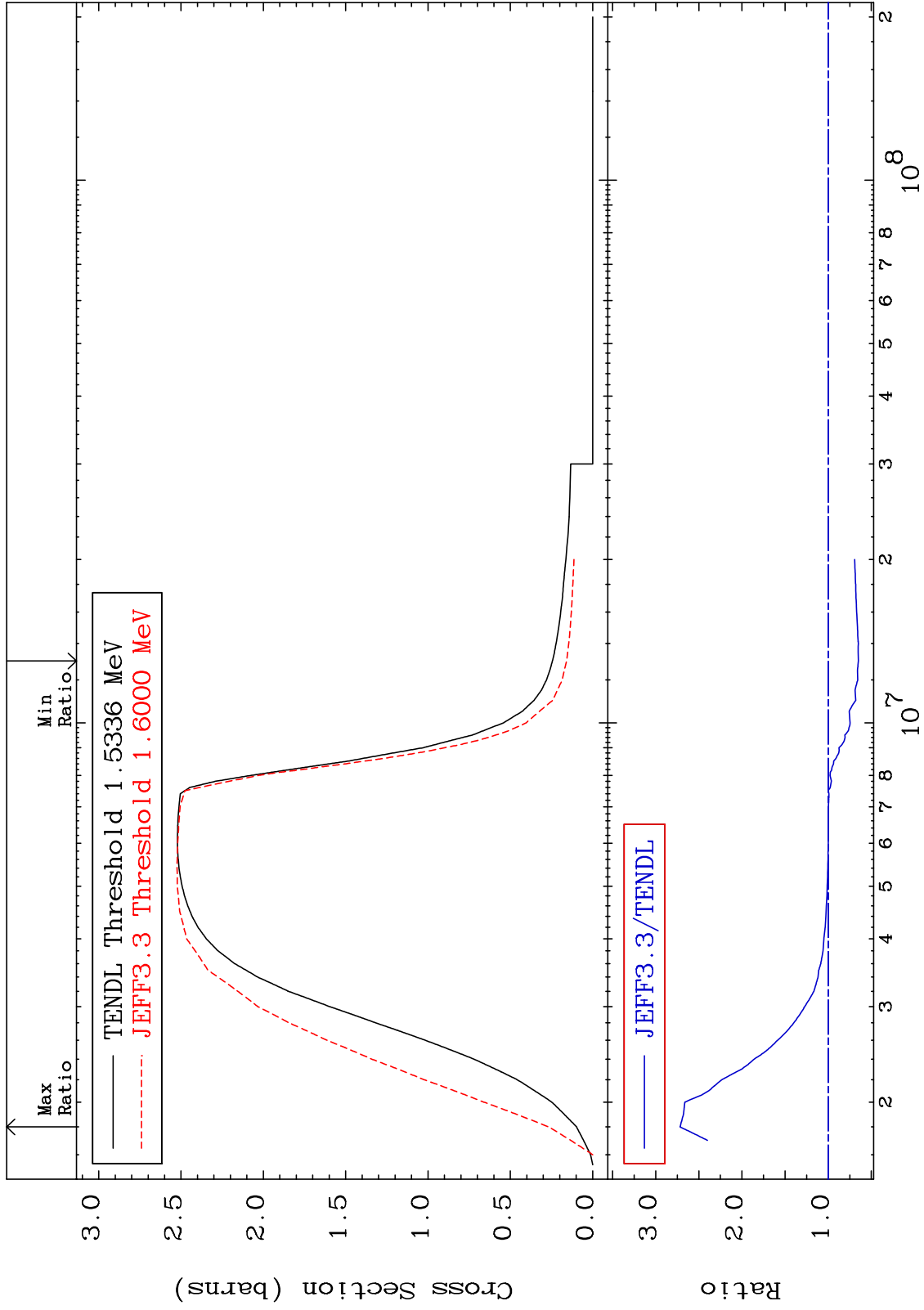
72-Hf-180  
-37.61 To 695.5 %



MAT 7243

(n, n') Continuum  
Cross Section

<sup>72</sup>Hf-180  
-35.02 To 171.8 %



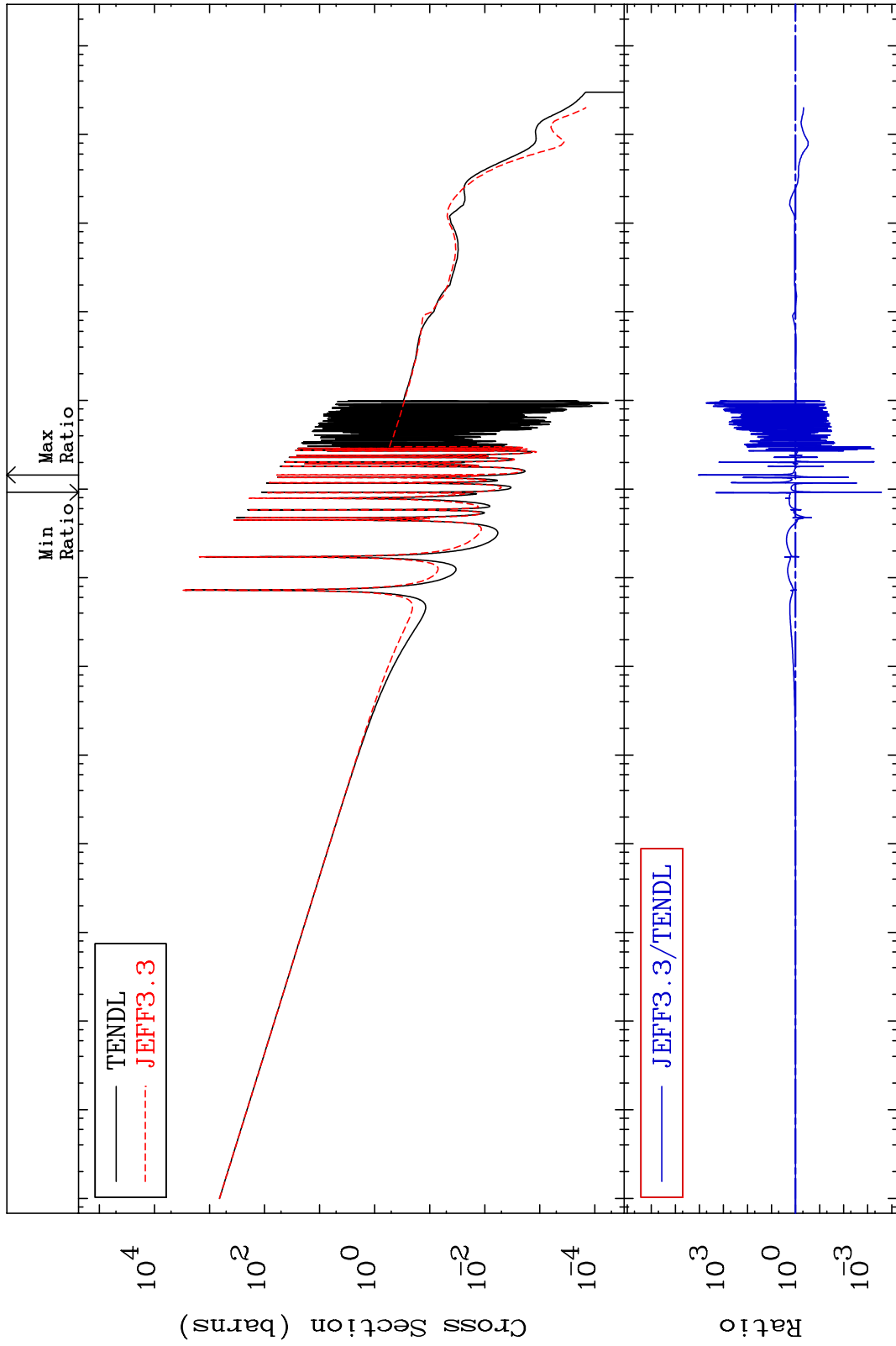
MAT 7243

(n,  $\gamma$ )

72-Hf-180

-99.97 To 9999. %

Cross Section



Incident Energy (eV) 72-Hf-180

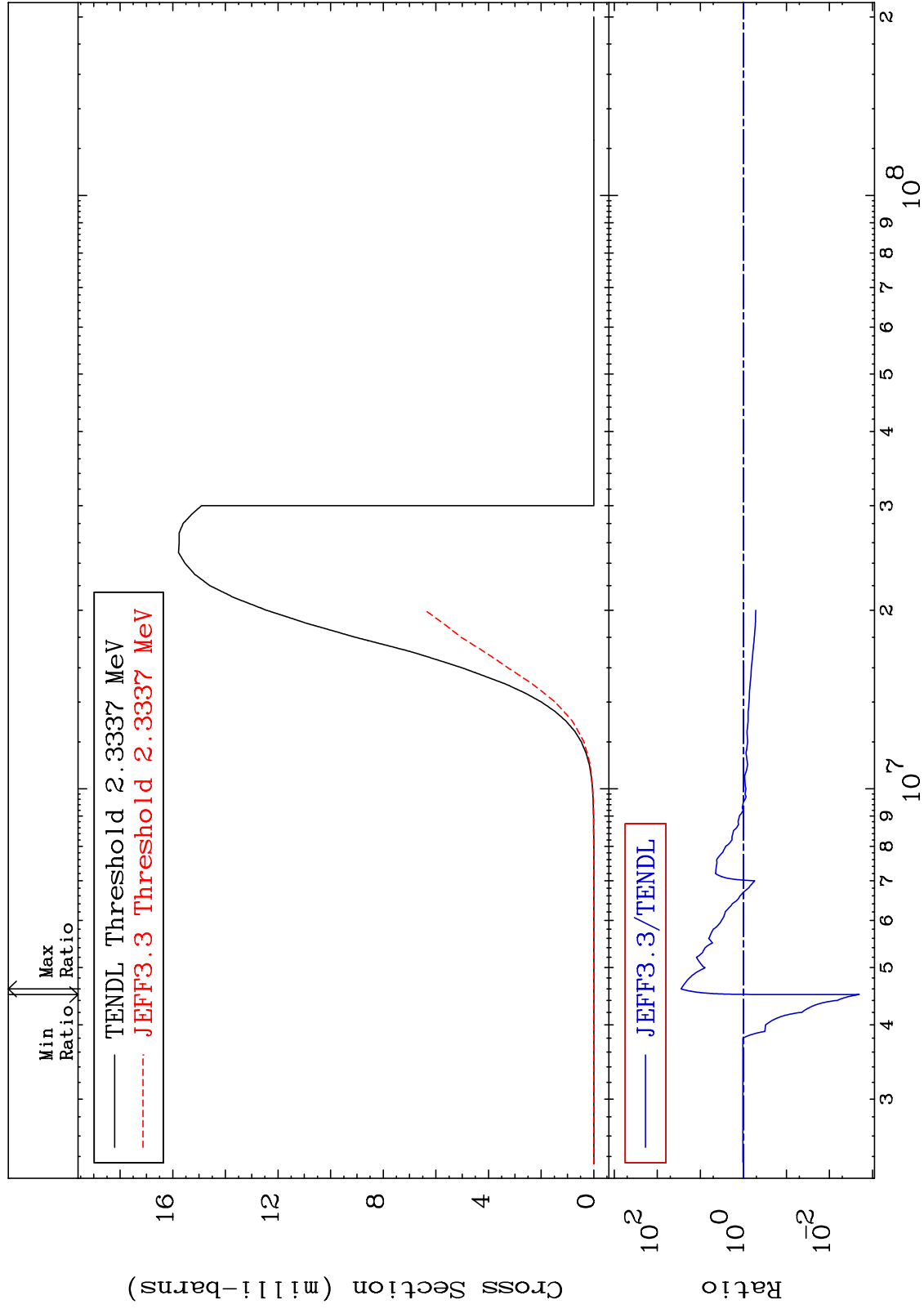
MAT 7243

(n, p)

72-Hf-180

Cross Section

-99.80 To 2700. %



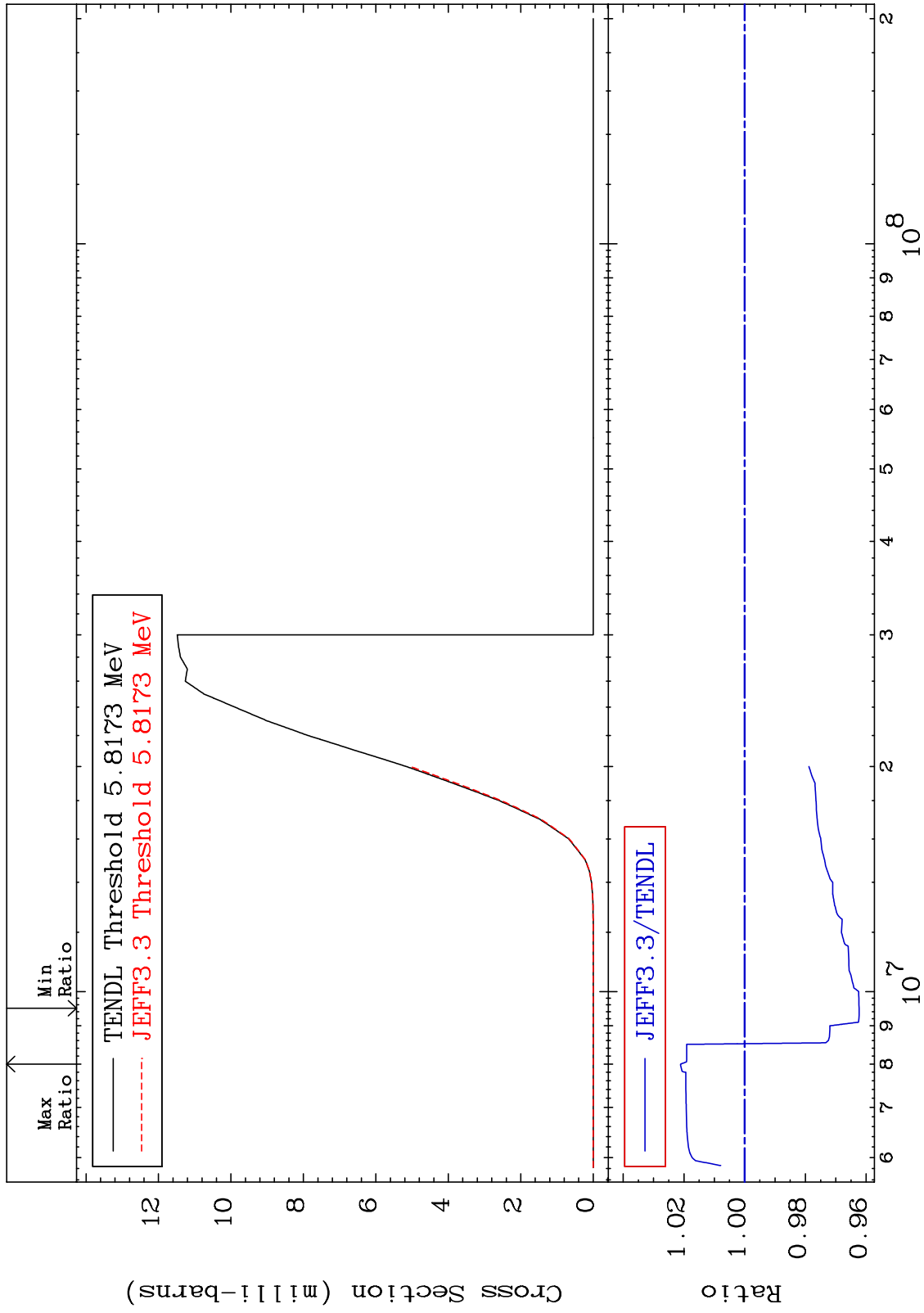
MAT 7243

(n, d)

72-Hf-180

Cross Section

-3.770 To 2.110 %



46

Incident Energy (eV)

72-Hf-180

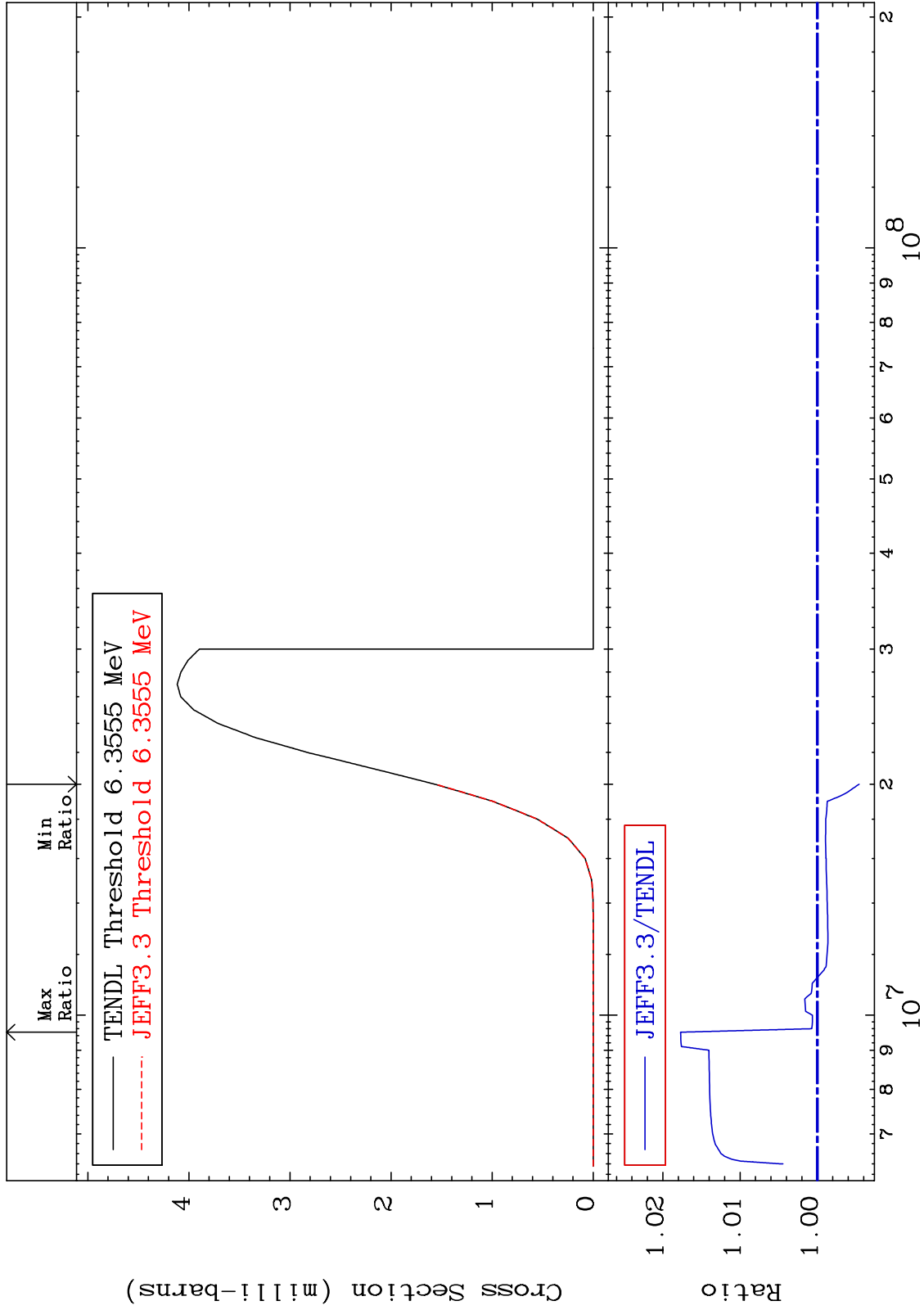
MAT 7243

(n, t)

72-Hf-180

Cross Section

-0.542 To 1.770 %





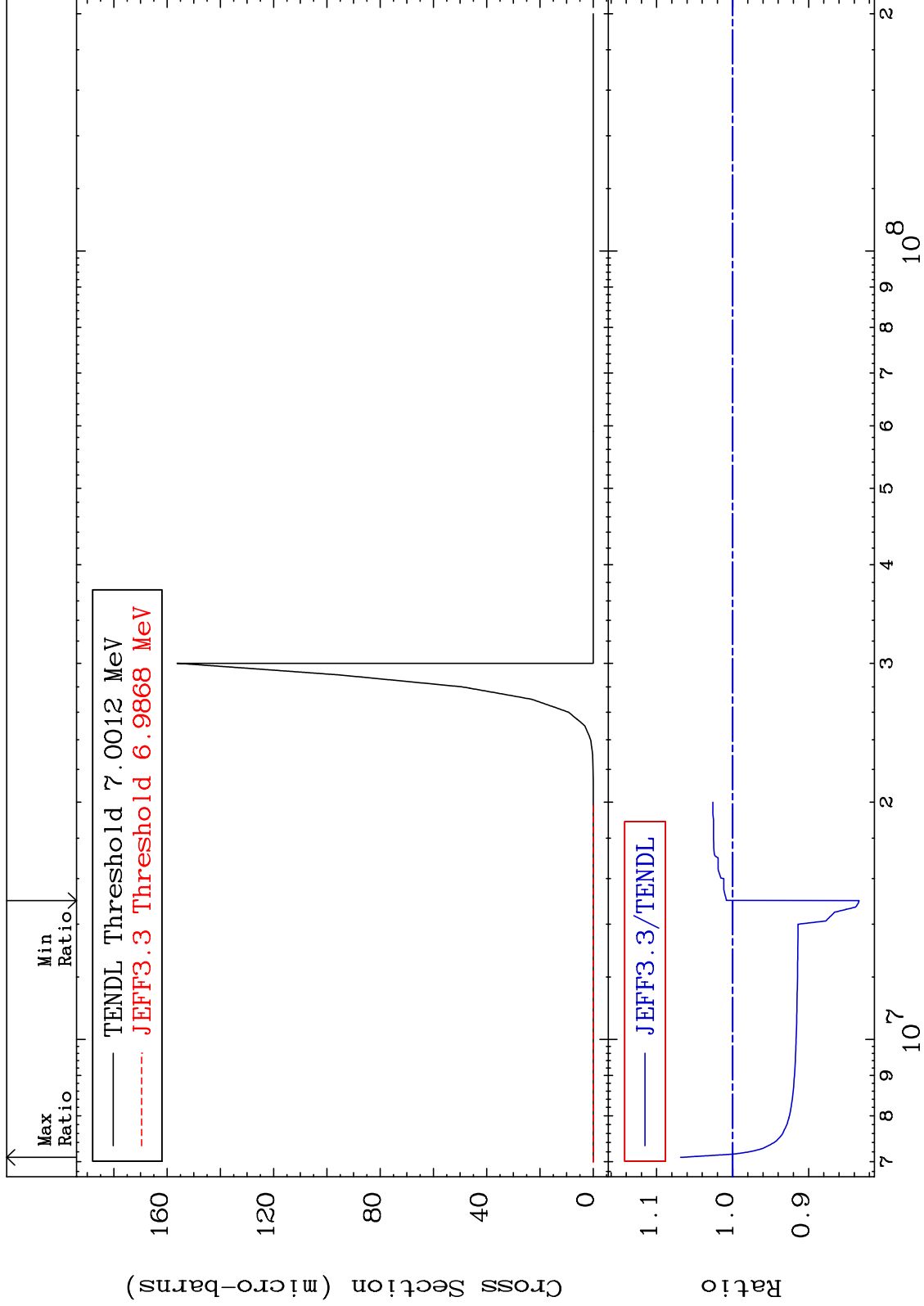
MAT 7243

(n, He-3)

72-Hf-180

Cross Section

-16.65 To 6.845 %



48

Incident Energy (eV)

72-Hf-180

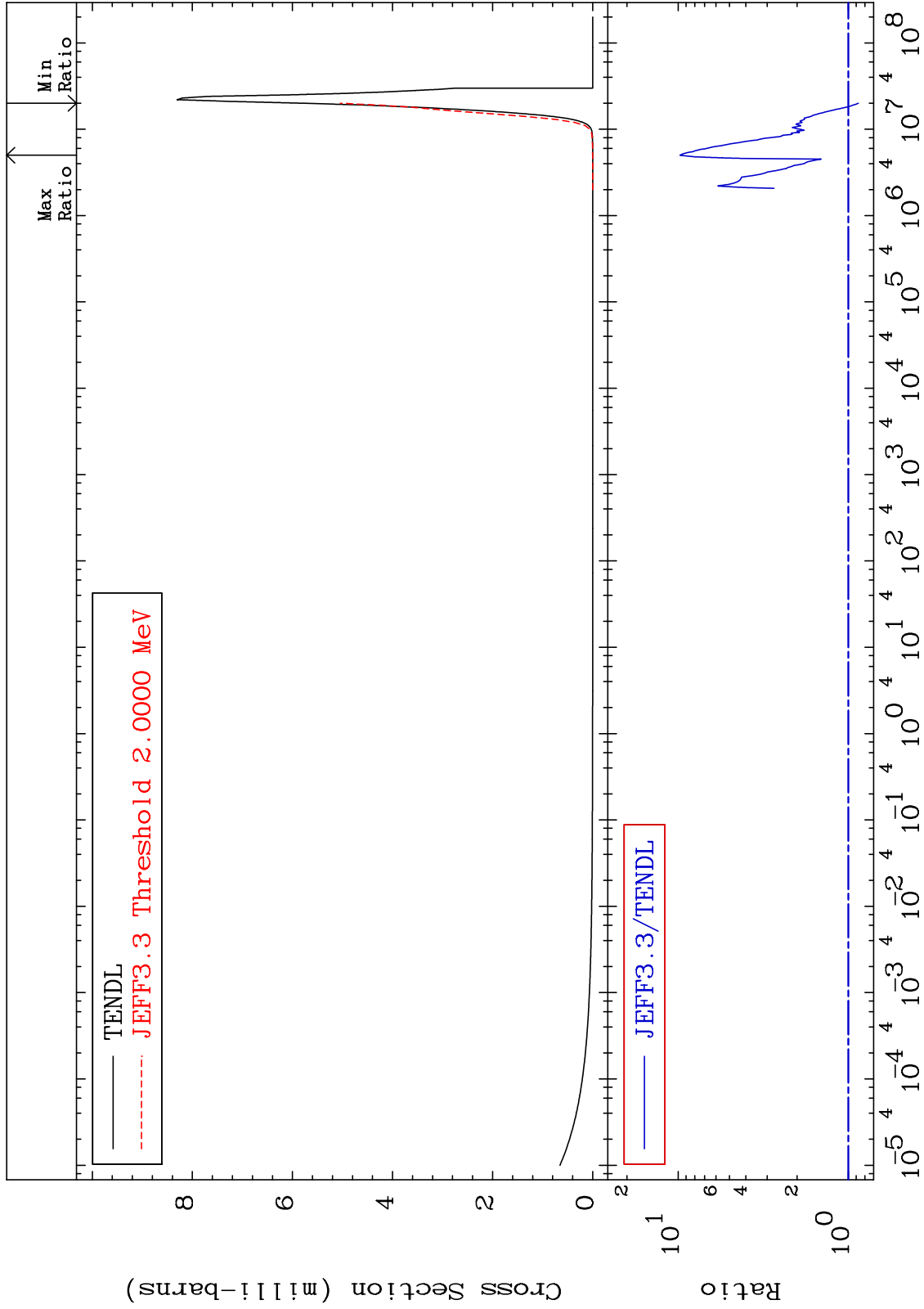
MAT 7243

(n,  $\alpha$ )

72-Hf-180

Cross Section

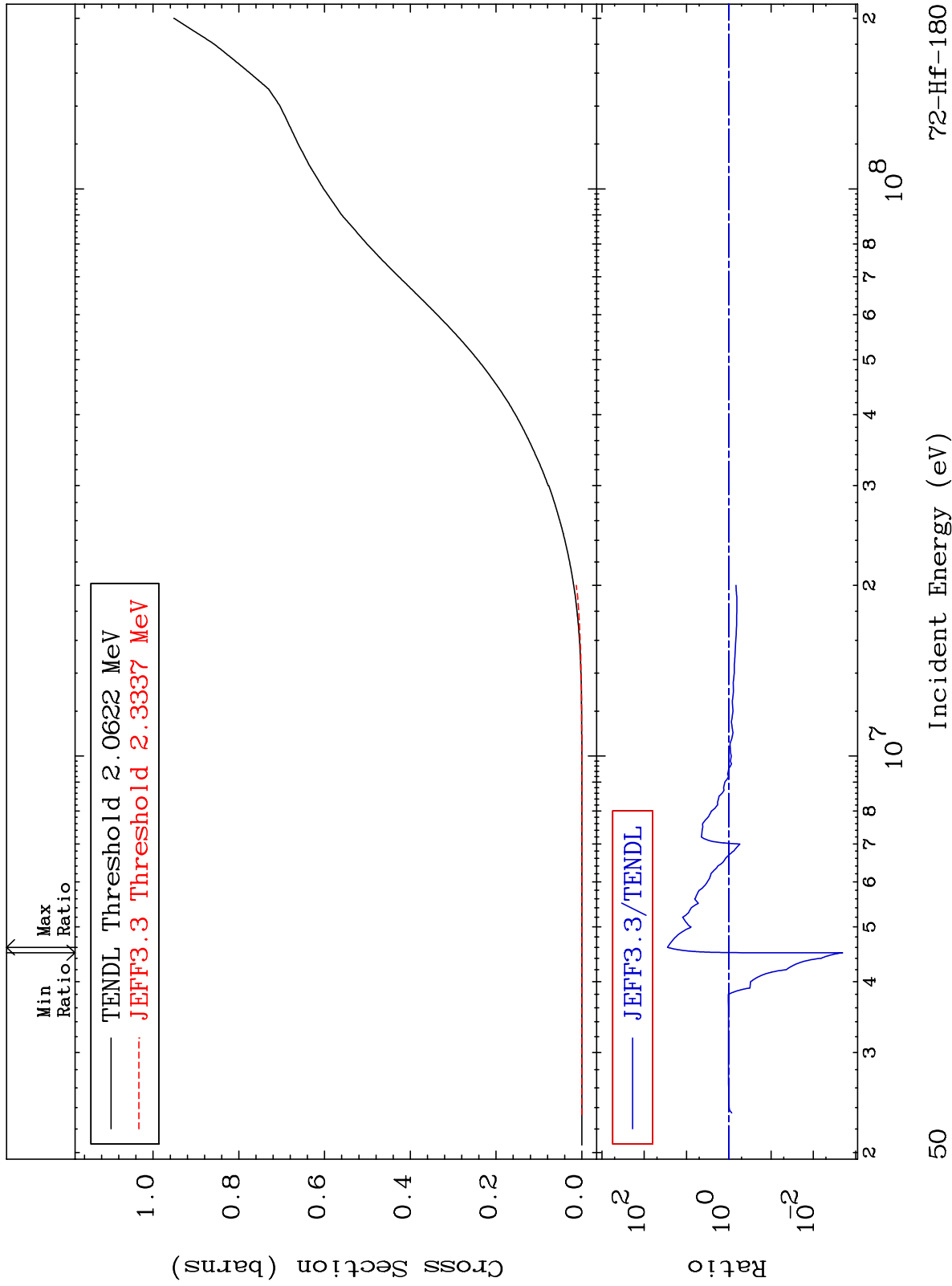
-12.72 To 875.9 %



MAT 7243

Hydrogen Production  
Cross Section

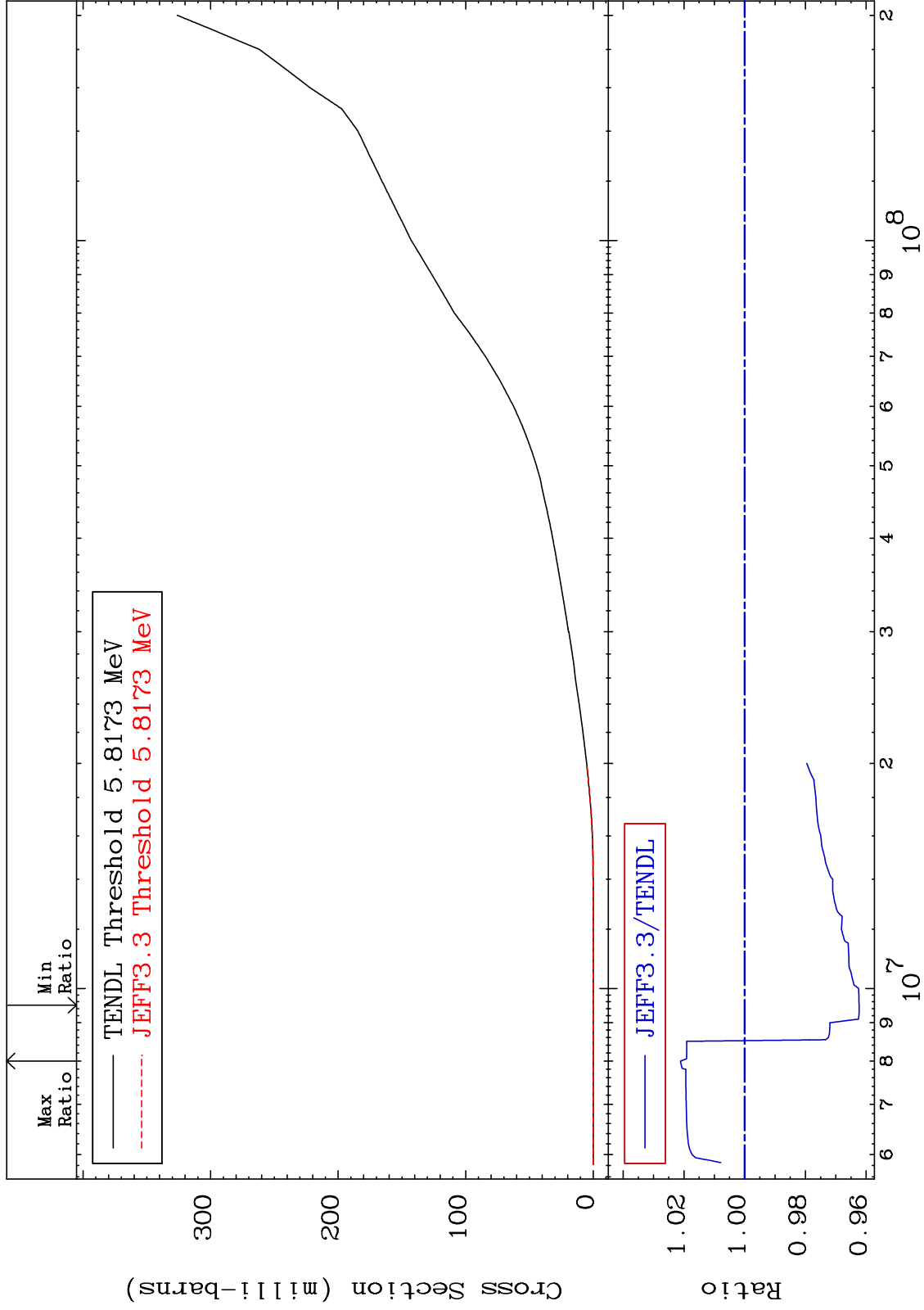
72-Hf-180  
-99.80 To 2700. %



MAT 7243

Deuterium Production  
Cross Section

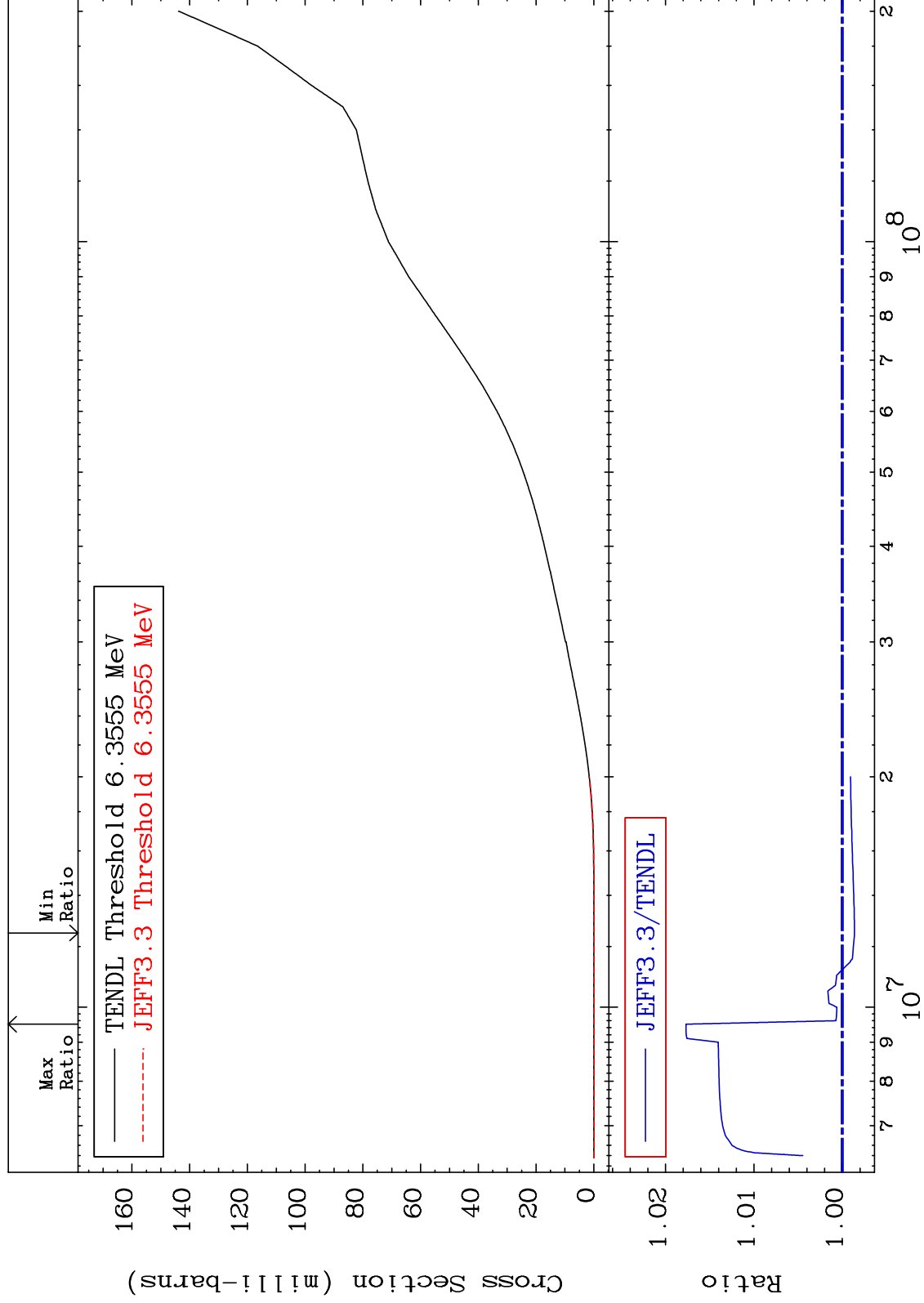
72-Hf-180  
-3.770 To 2.110 %



MAT 7243

Tritium Production  
Cross Section

<sup>72</sup>Hf-180  
-0.137 To 1.770 %



52

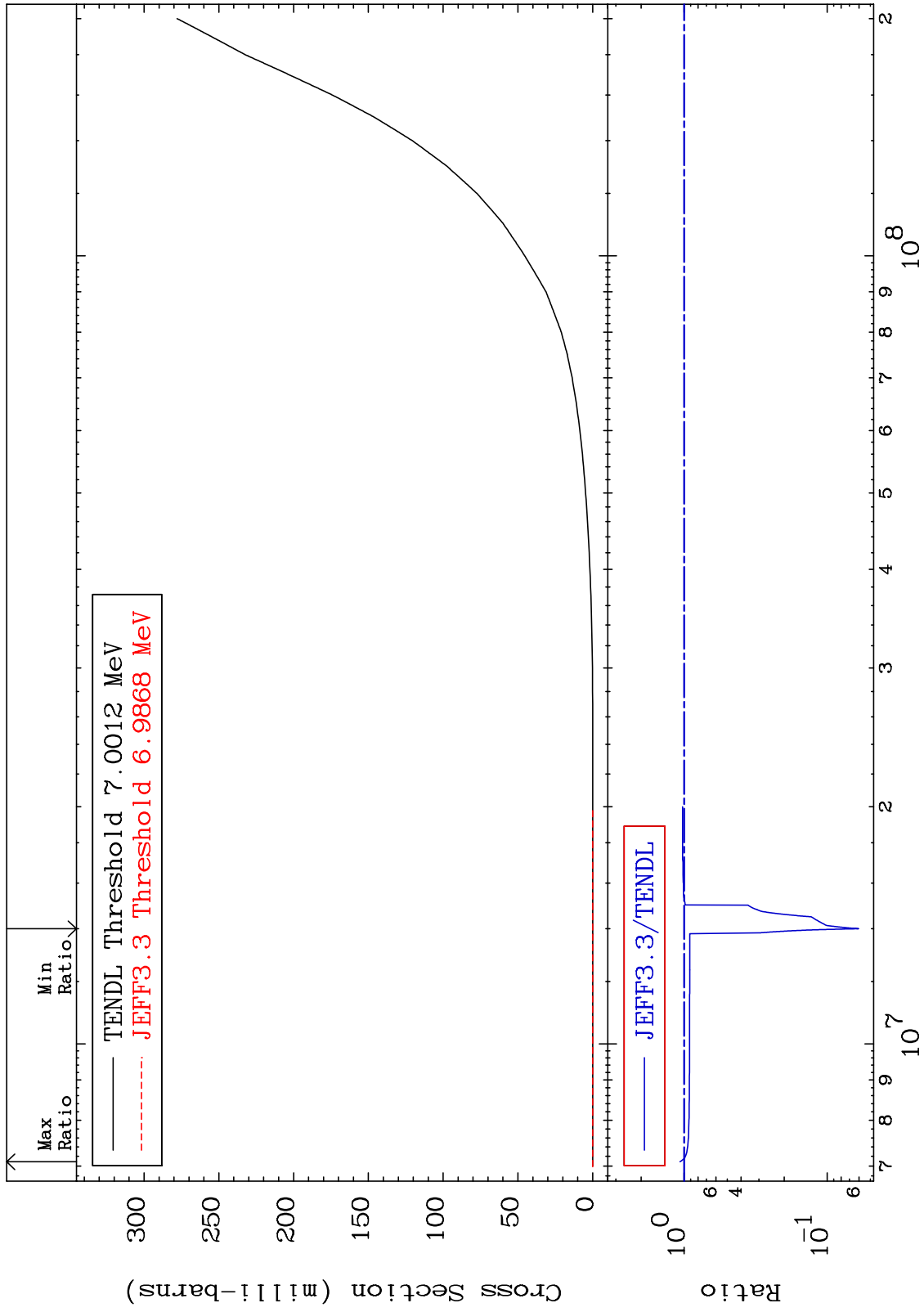
Incident Energy (eV)

<sup>72</sup>Hf-180

MAT 7243

He-3 Production  
Cross Section

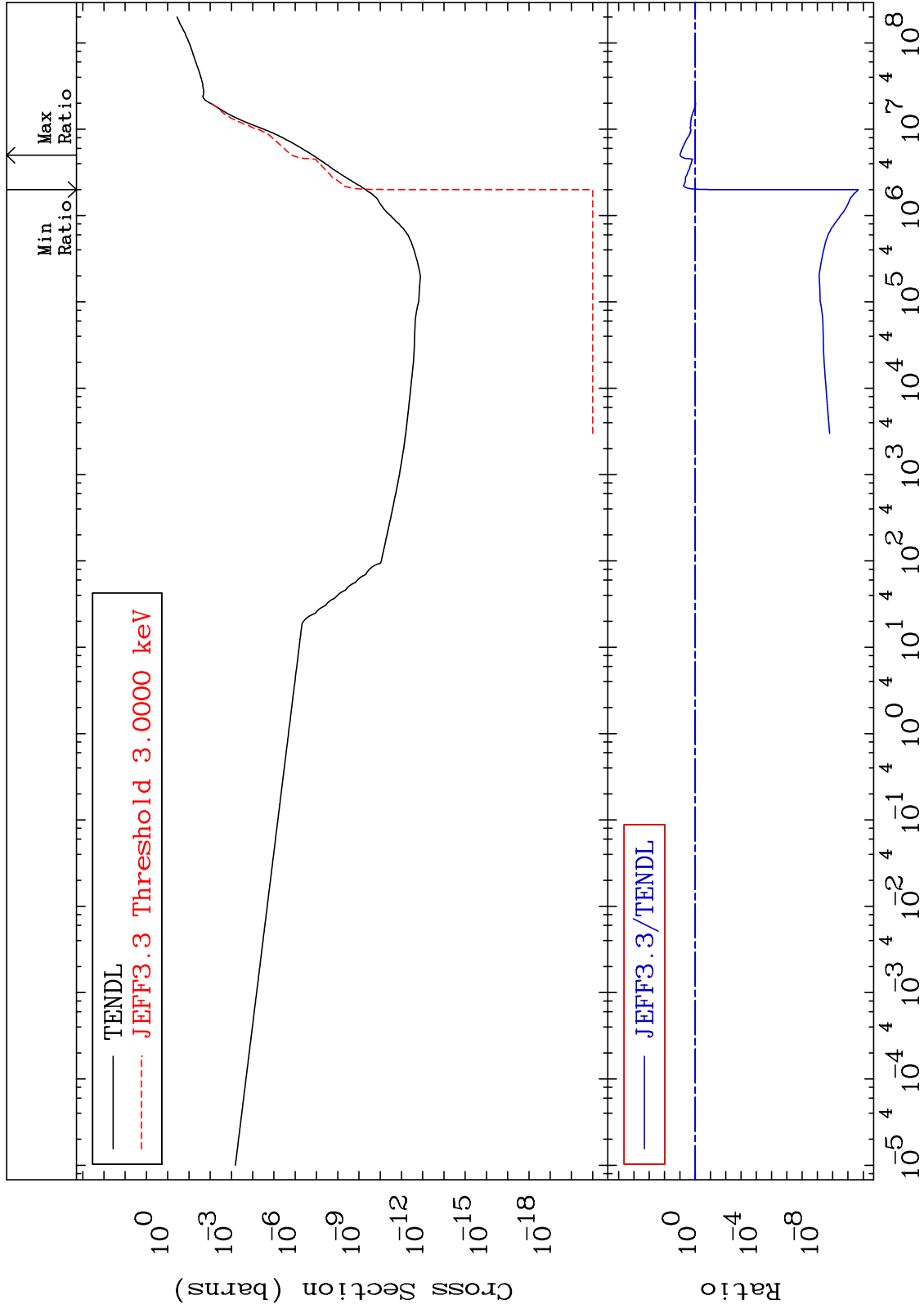
72-Hf-180  
-93.94 To 6.845 %



MAT 7243

He-4 Production  
Cross Section

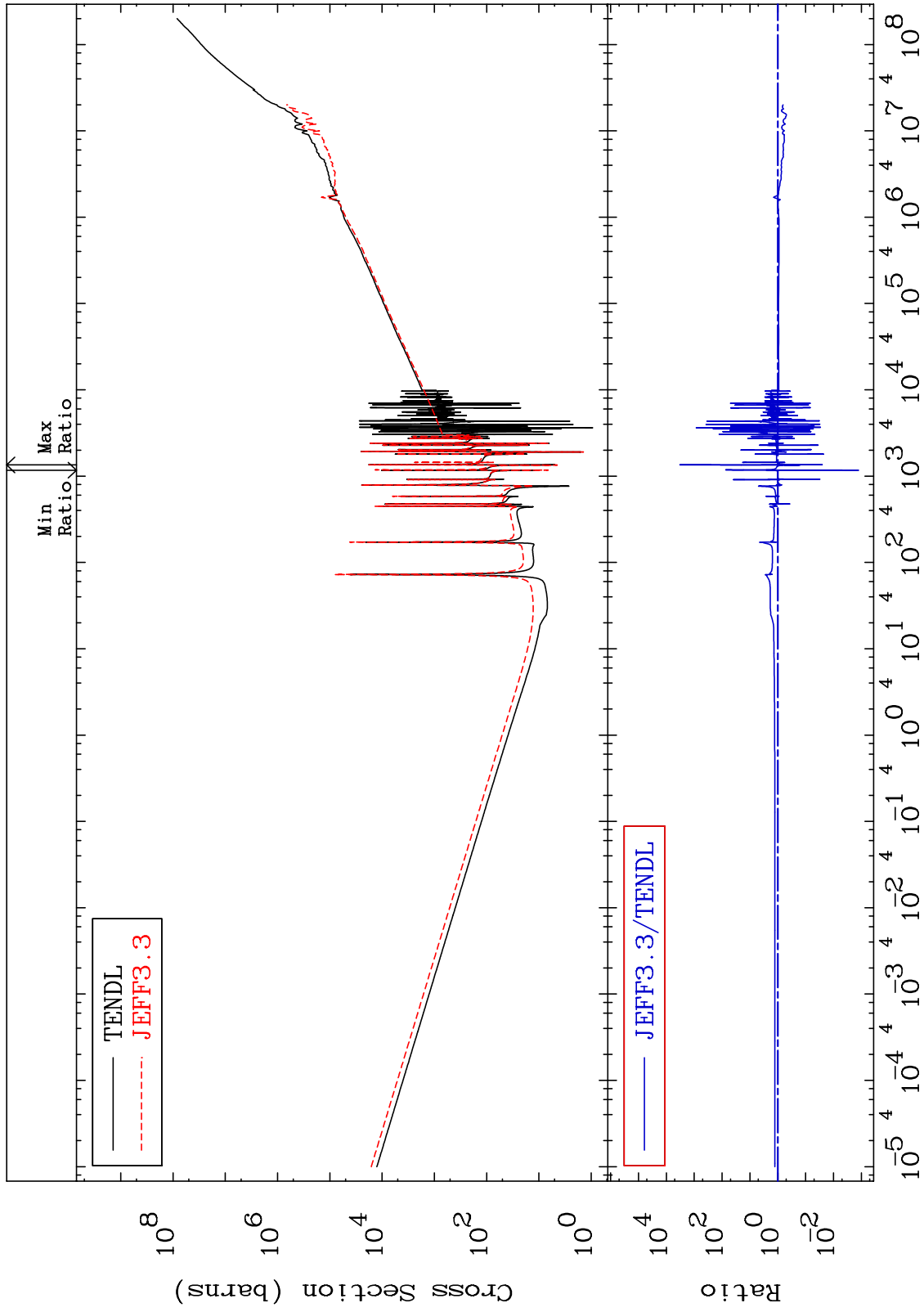
72-Hf-180  
-100.0 To 876.2 %



MAT 7243

Kerma total (eV-barns)  
Cross Section

72-Hf-180  
-99.87 To 9999. %



55

Incident Energy (eV)

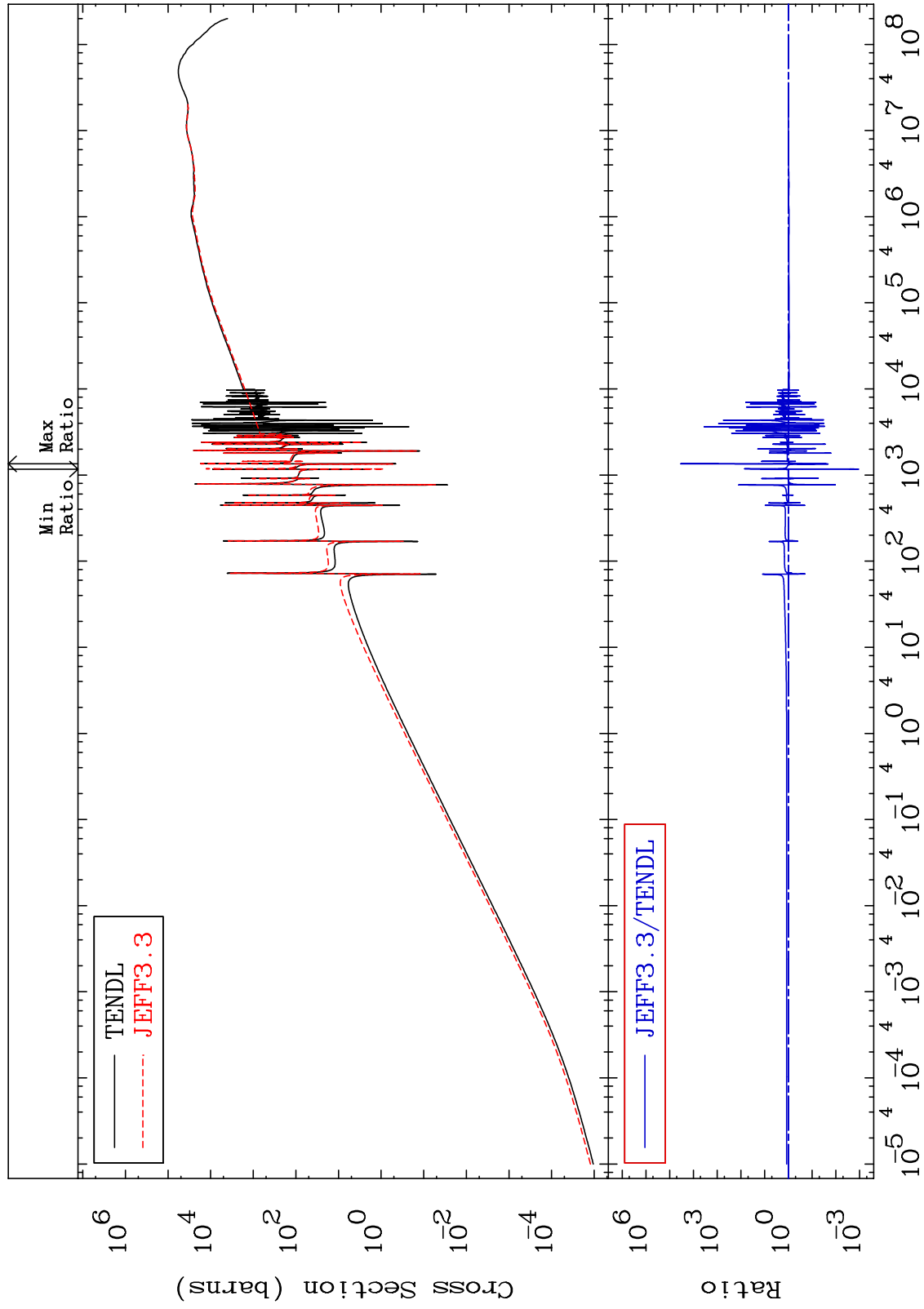
72-Hf-180



MAT 7243

Kerma elastic  
Cross Section

<sup>72</sup>Hf-180  
-99.89 To 9999. %



56

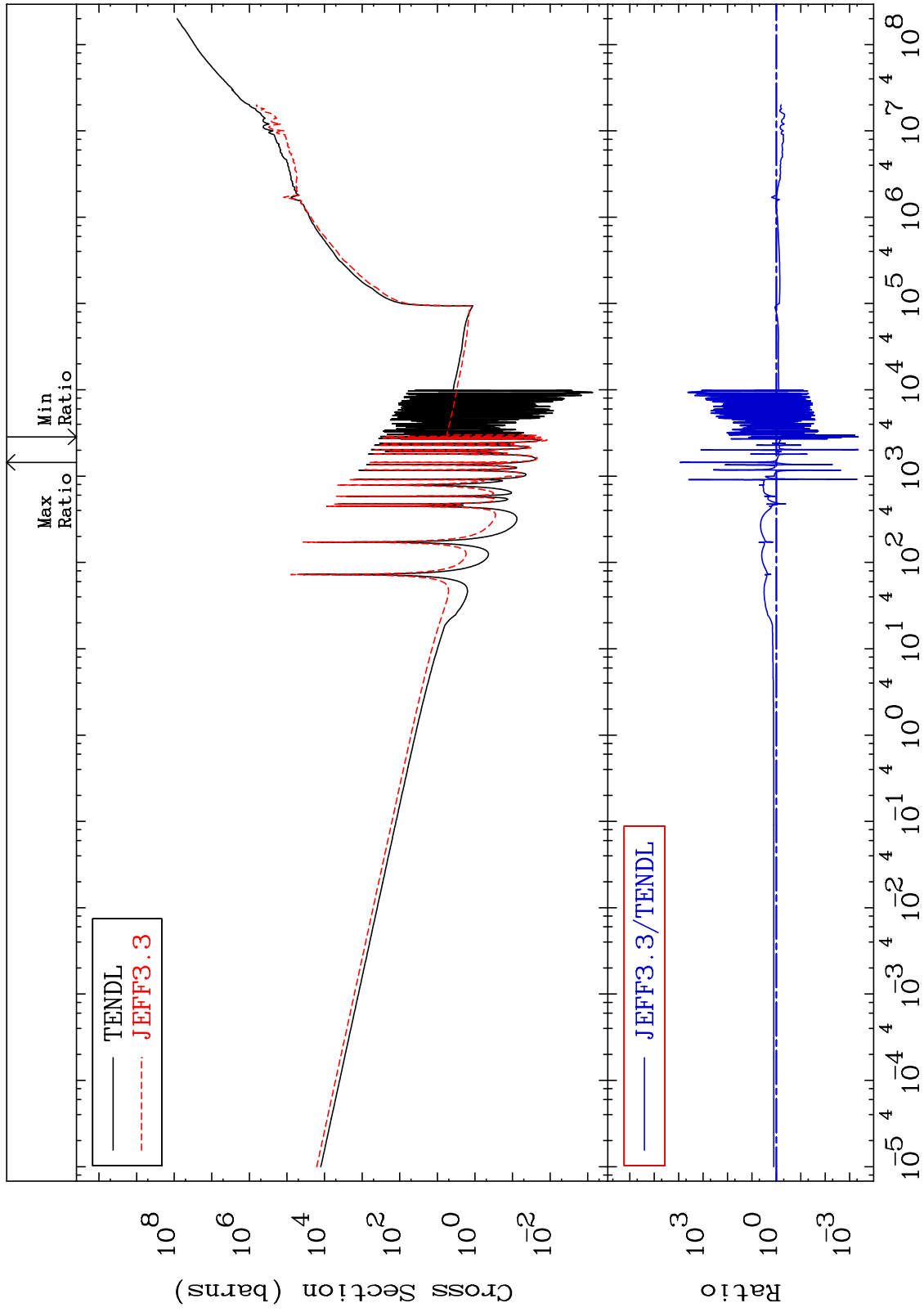
Incident Energy (eV)

<sup>72</sup>Hf-180

MAT 7243

Kerma non-elastic (all but mt2)  
Cross Section

72-Hf-180  
-99.96 To 9999. %



57

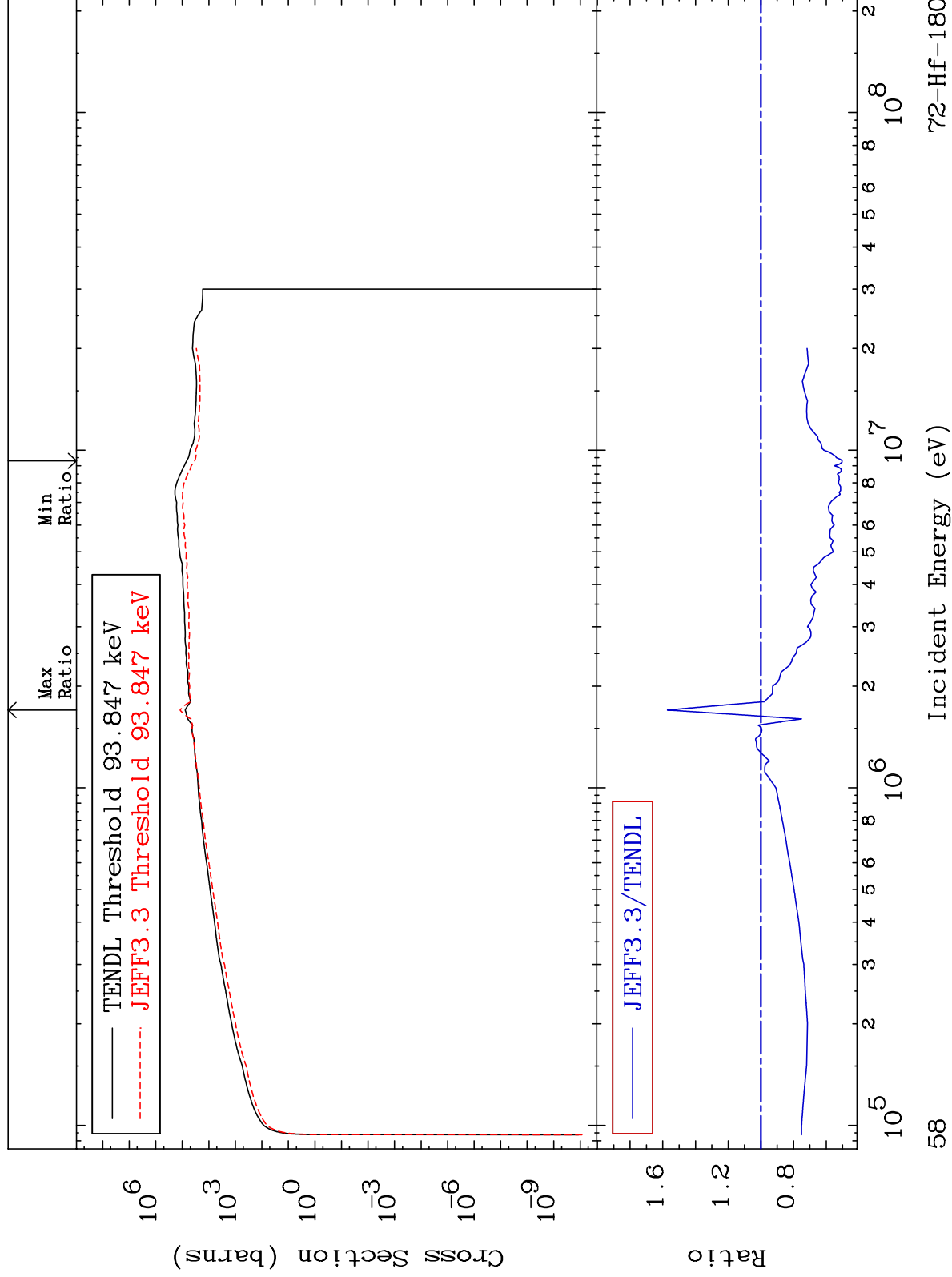
Incident Energy (eV)

72-Hf-180

MAT 7243

Kerma inelastic (mt51-91)  
Cross Section

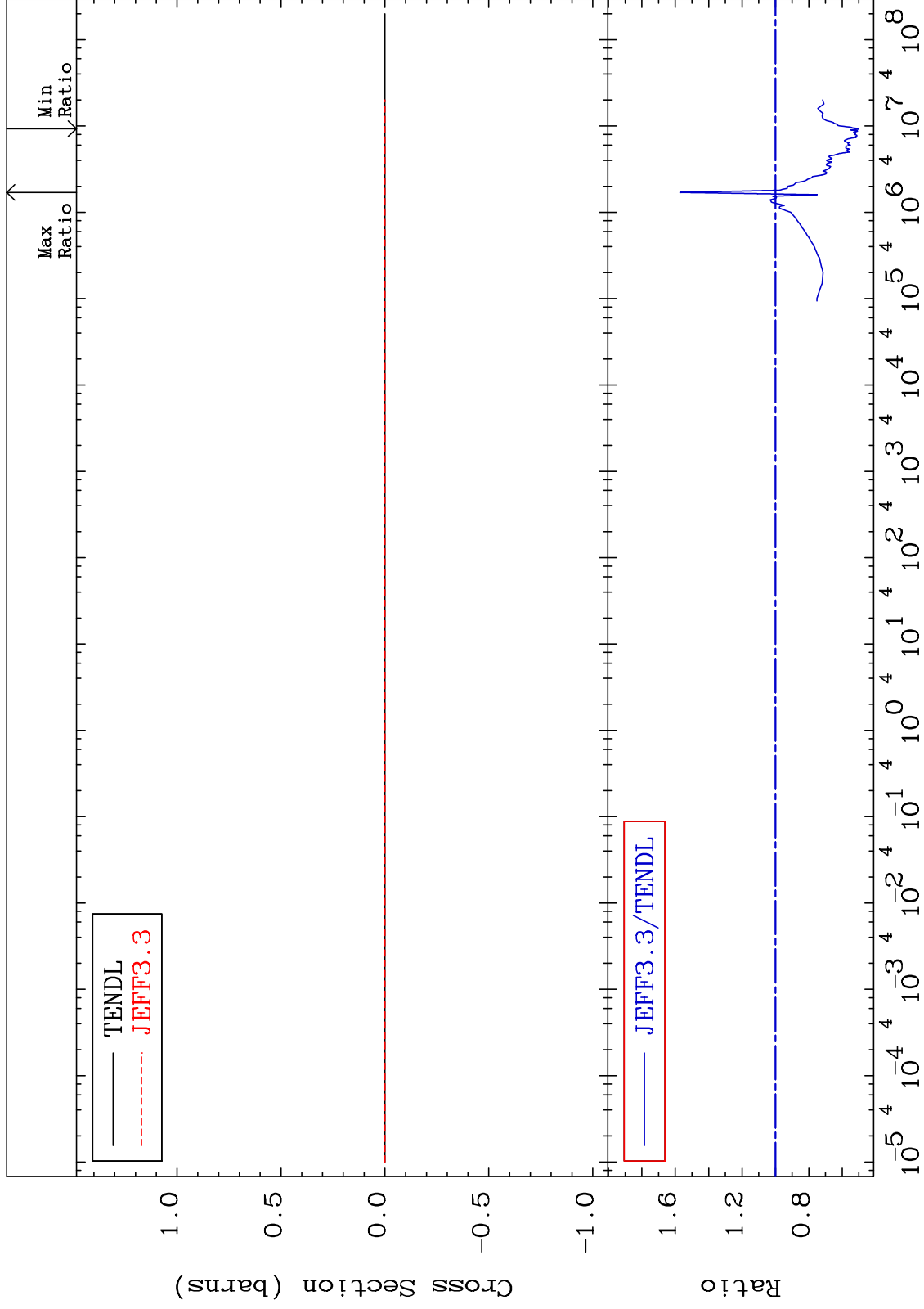
72-Hf-180  
-49.71 To 57.14 %



MAT 7243

Kerma fission (mt18 or mt19-20-21-38)  
Cross Section

72-Hf-180  
-49.71 To 57.14 %



59

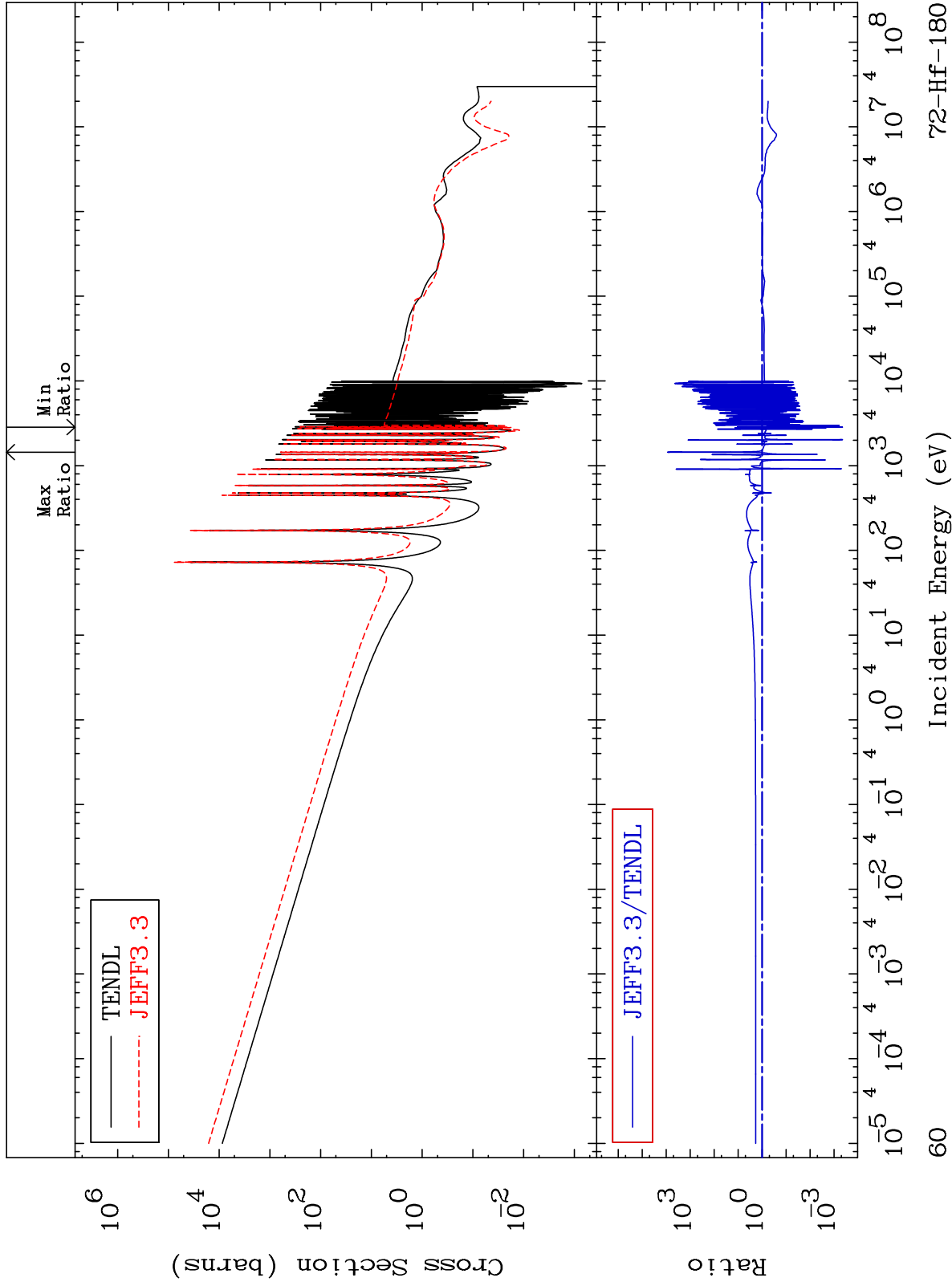
Incident Energy (eV)

72-Hf-180

MAT 7243

Kerma capture (mt102)  
Cross Section

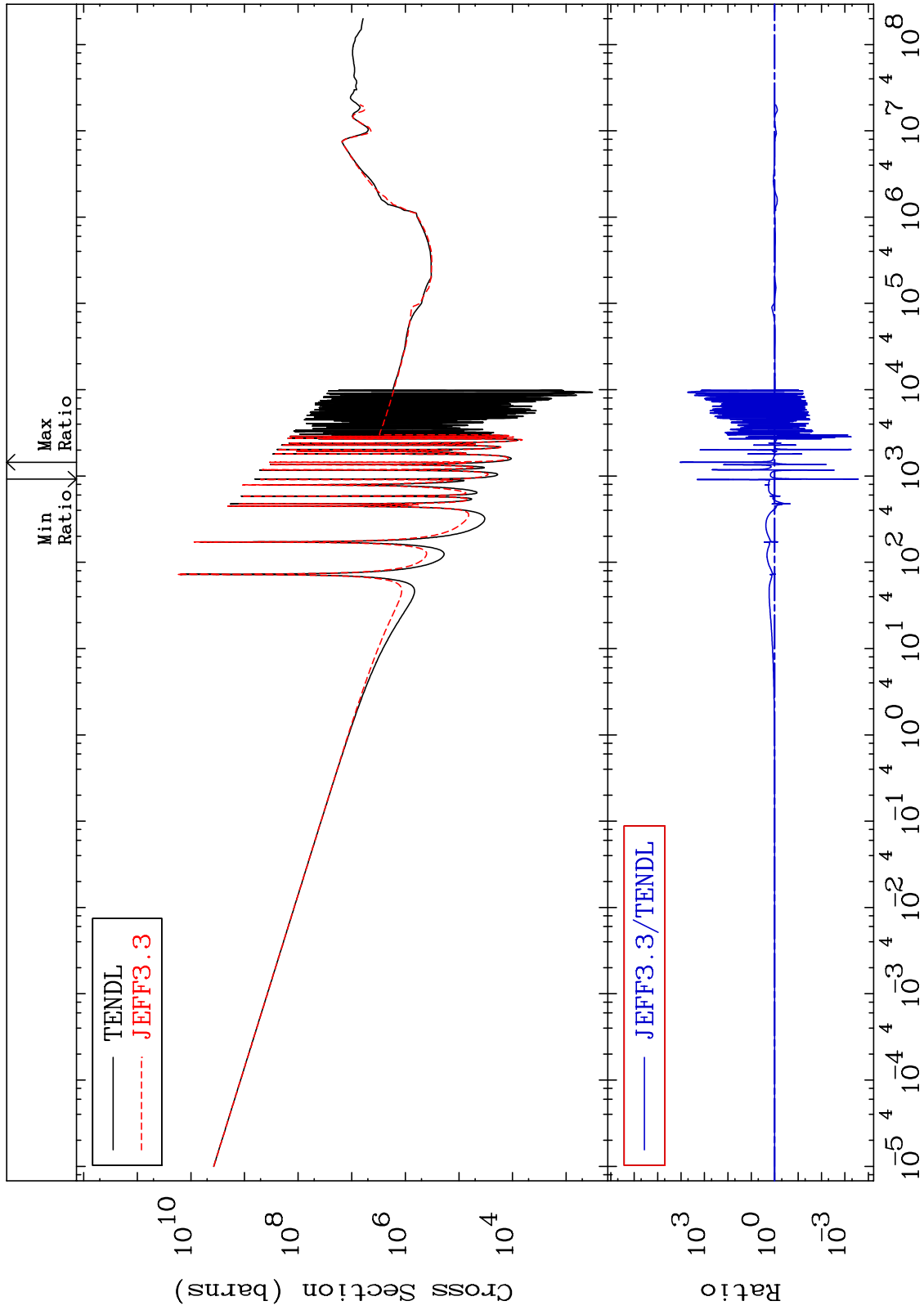
72-Hf-180  
-99.96 To 9999. %



MAT 7243

Total photon (eV-barns)  
Cross Section

72-Hf-180  
-99.97 To 9999. %



61

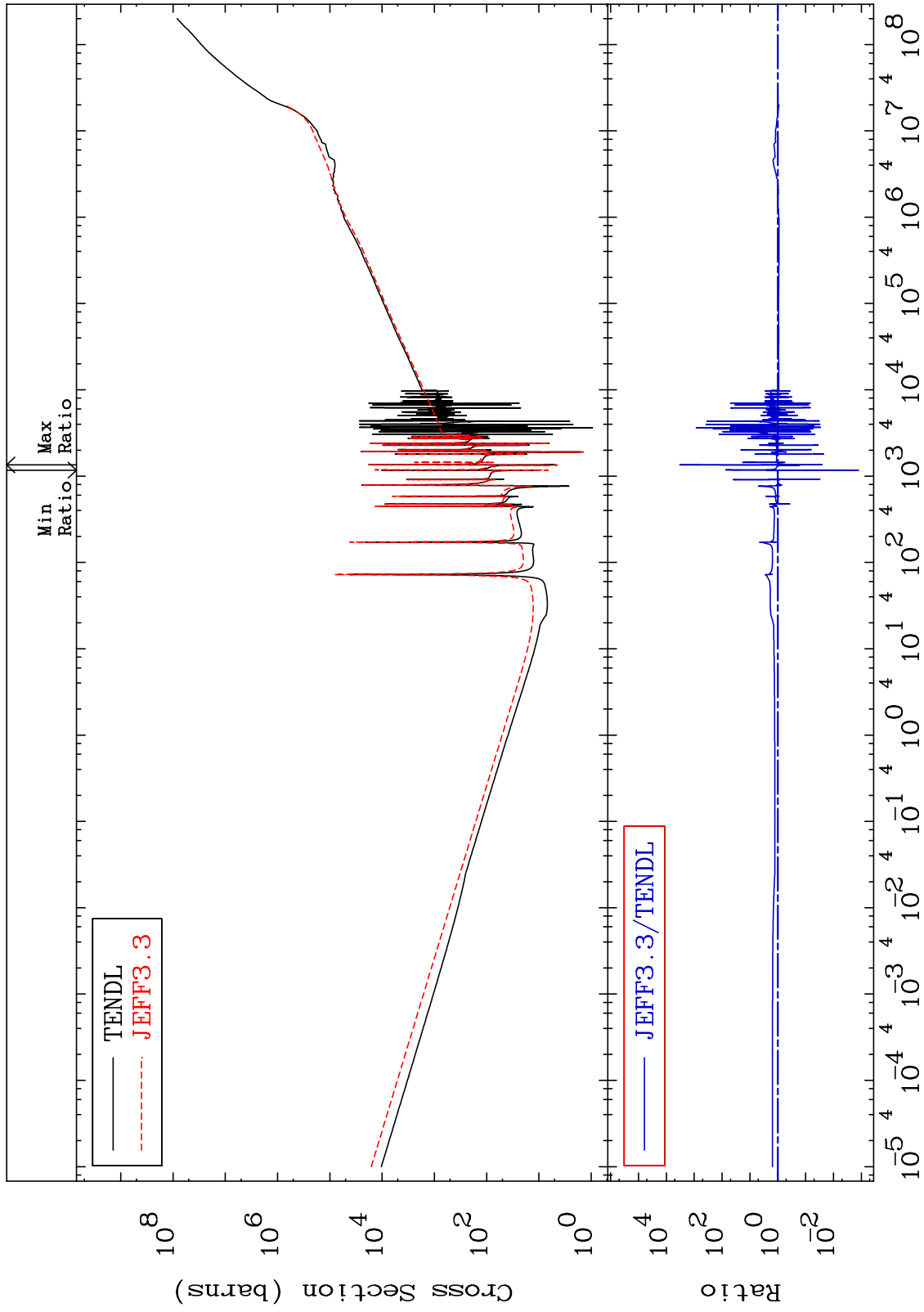
Incident Energy (eV)

72-Hf-180

MAT 7243

Total kinematic kerma (high limit)  
Cross Section

72-Hf-180  
-99.87 To 9999. %



62

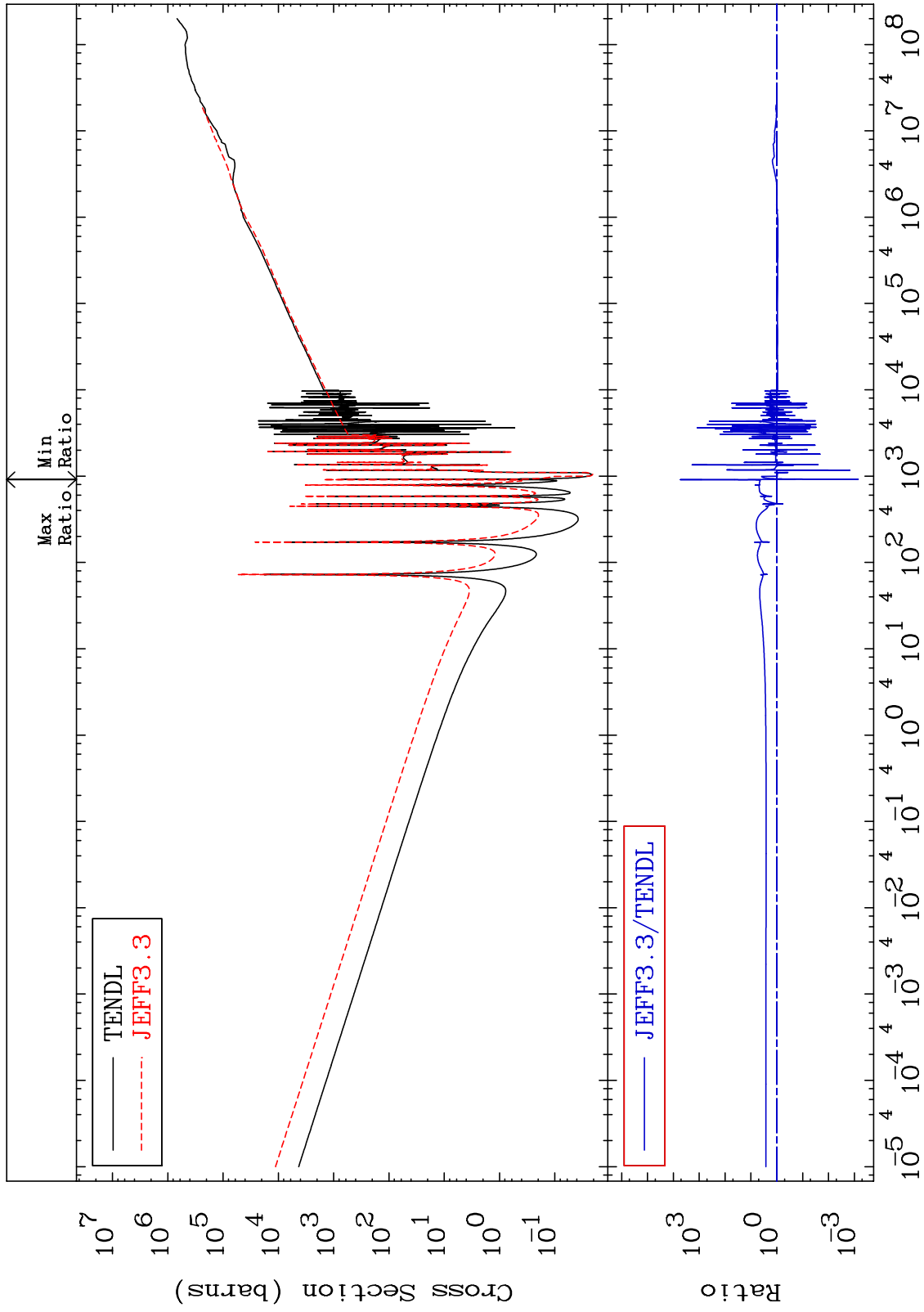
Incident Energy (eV)

72-Hf-180

MAT 7243

Dpa total (eV-barns)  
Cross Section

72-Hf-180  
-99.93 To 9999. %



63

Incident Energy (eV)

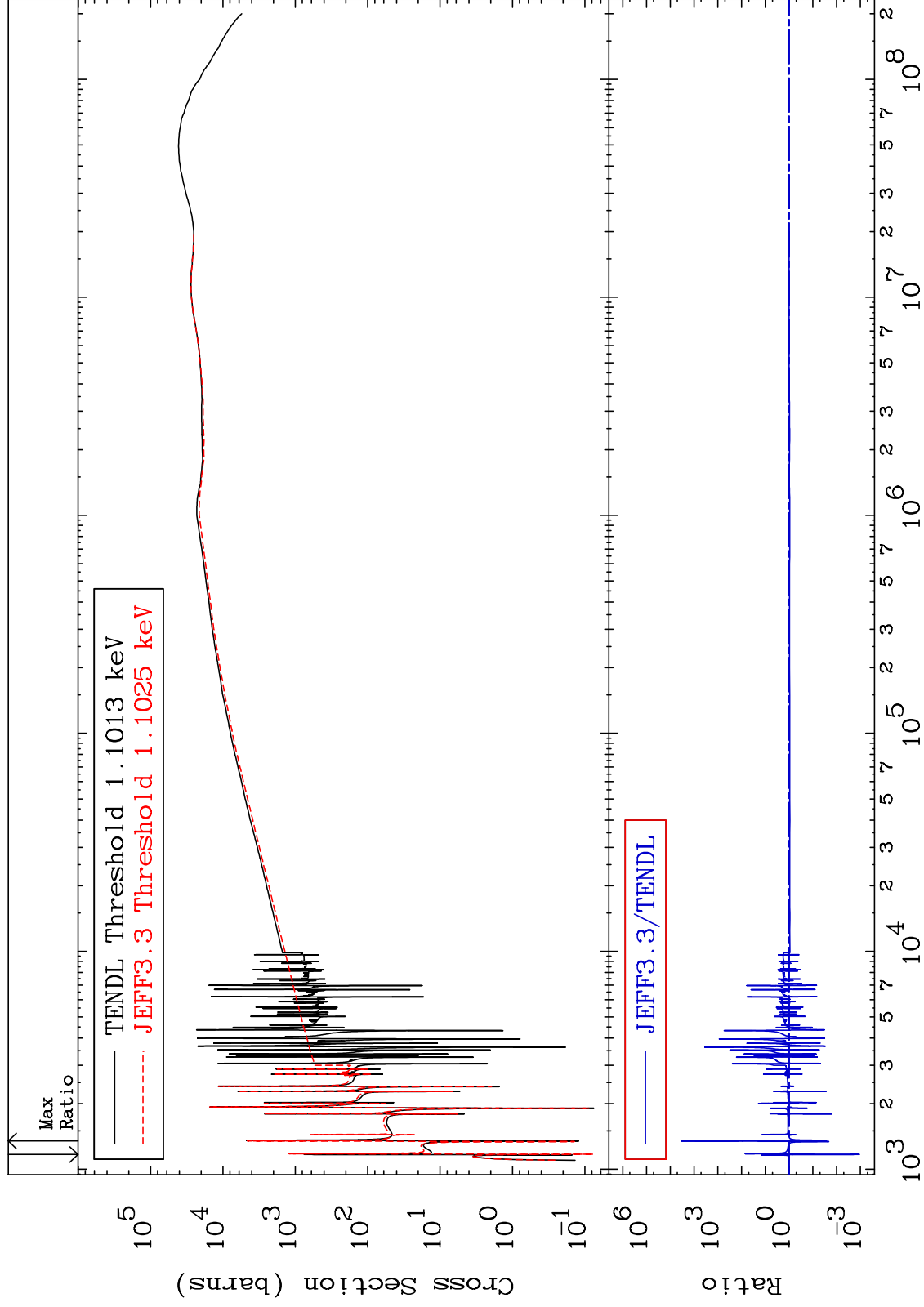
72-Hf-180



MAT 7243

Dpa elastic (mt2)  
Cross Section

72-Hf-180  
-99.89 To 9999. %



64

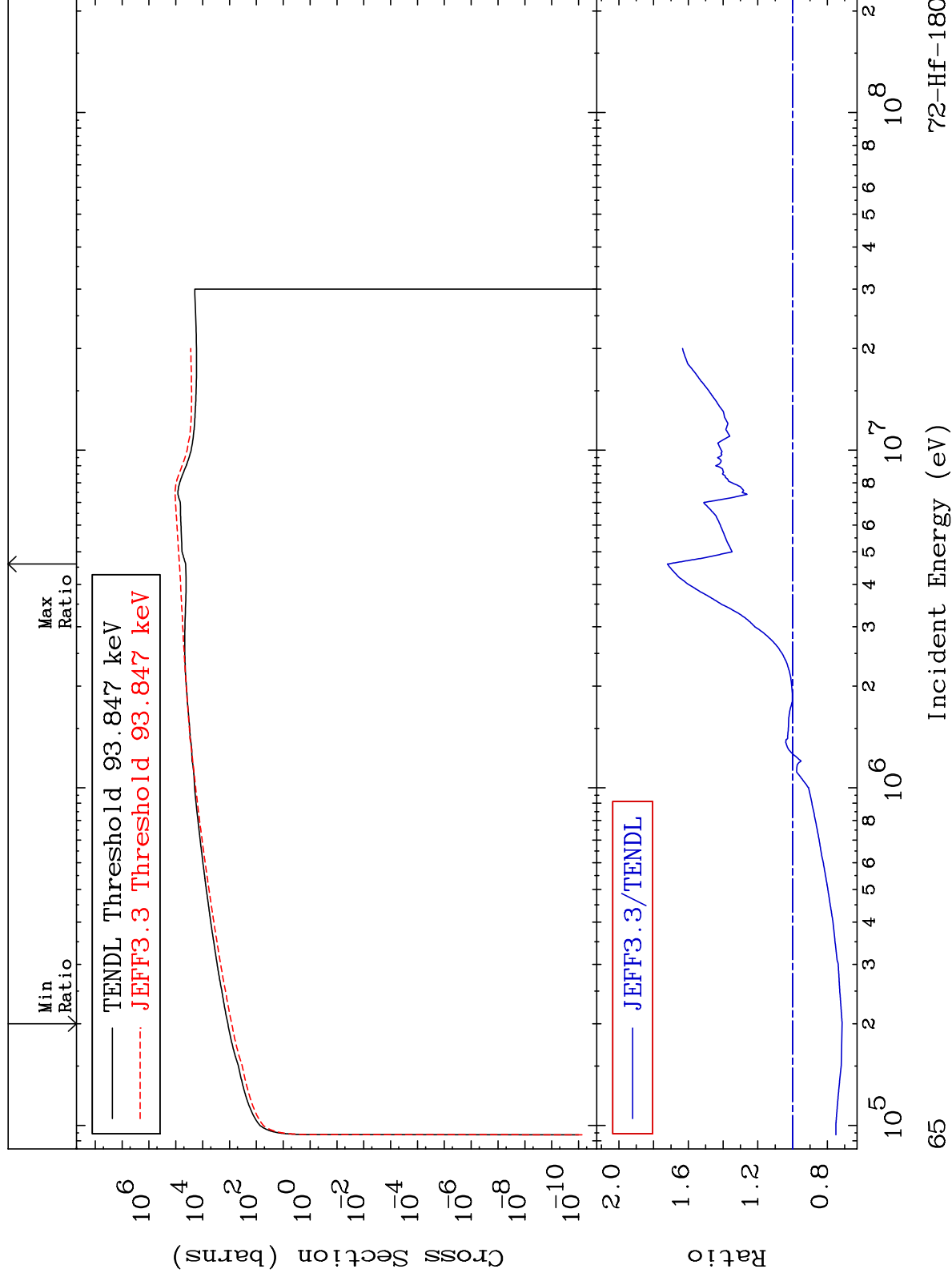
Incident Energy (eV)

72-Hf-180

MAT 7243

Dpa inelastic (mt51-91)  
Cross Section

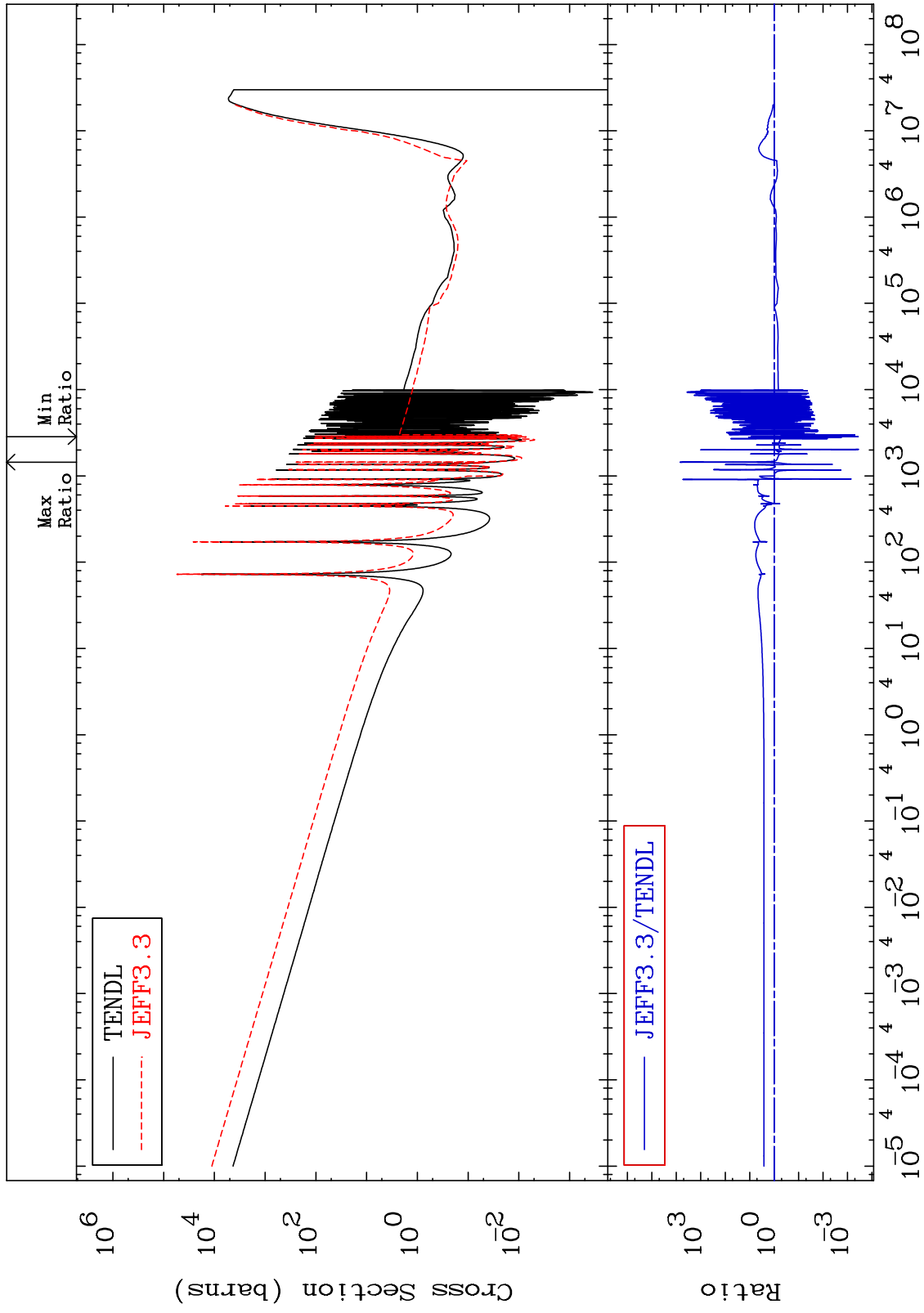
72-Hf-180  
-28.52 To 72.01 %



MAT 7243

Dpa disappearance (mt102 -120)  
Cross Section

72-Hf-180  
-99.96 To 9999. %



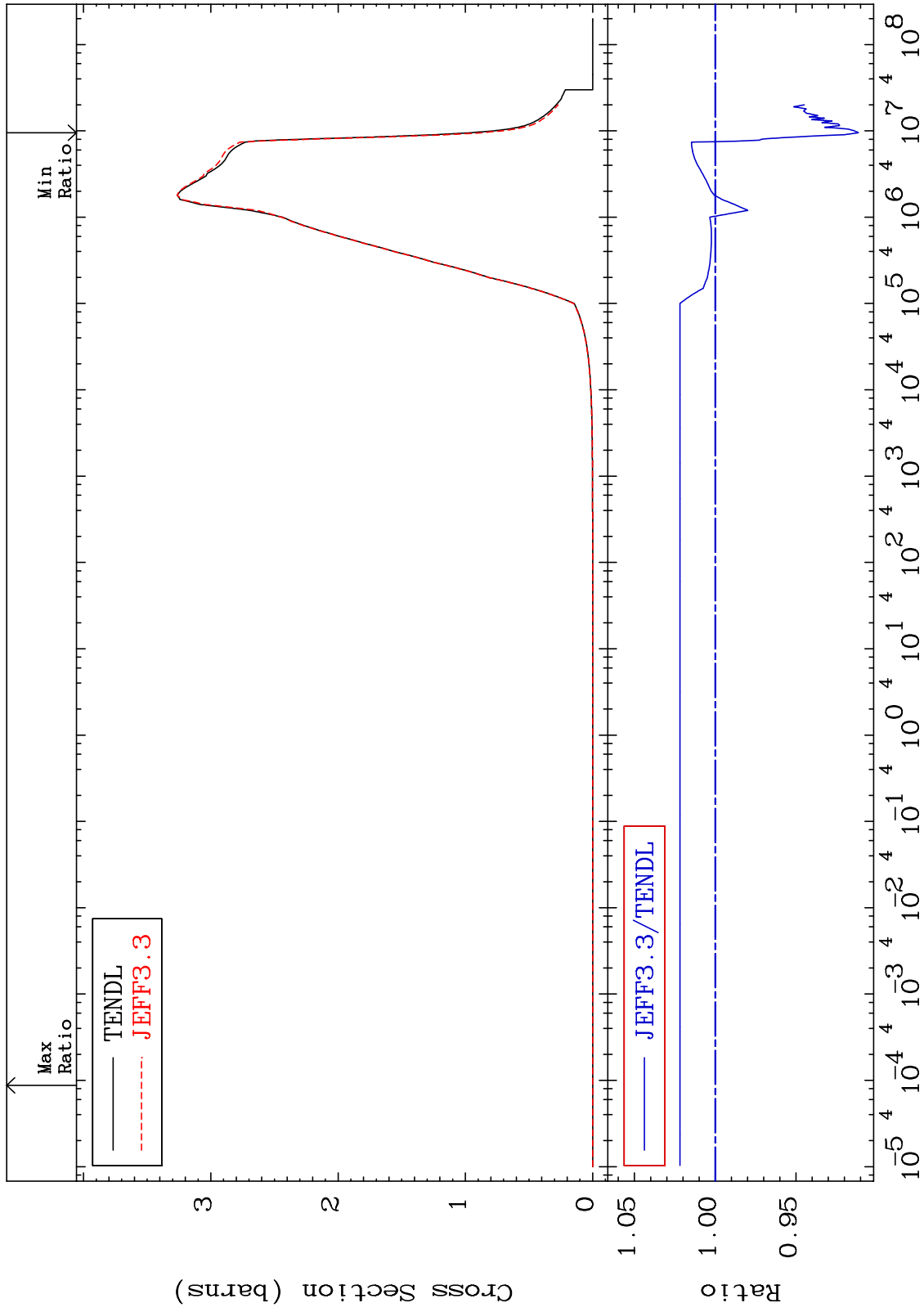
MAT 7243

Inelastic: 72-Hf-180g

72-Hf-180

Radionuclide Production Cross Section

-8.862 To 2.180 %



67

Incident Energy (eV)

72-Hf-180

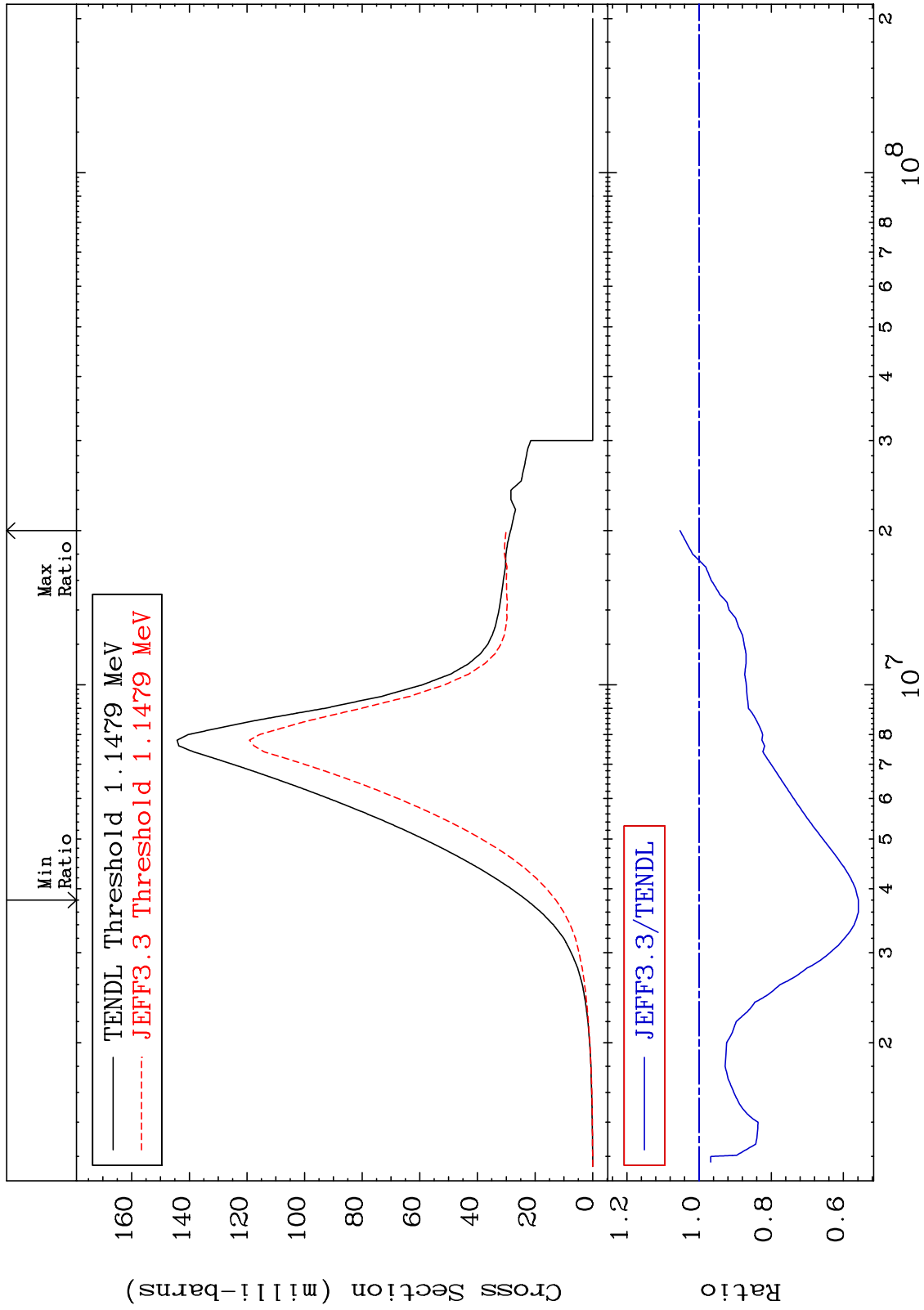
MAT 7243

Inelastic: 72-Hf-180m7

72-Hf-180

Radionuclide Production Cross Section

-44.16 To 5.280 %

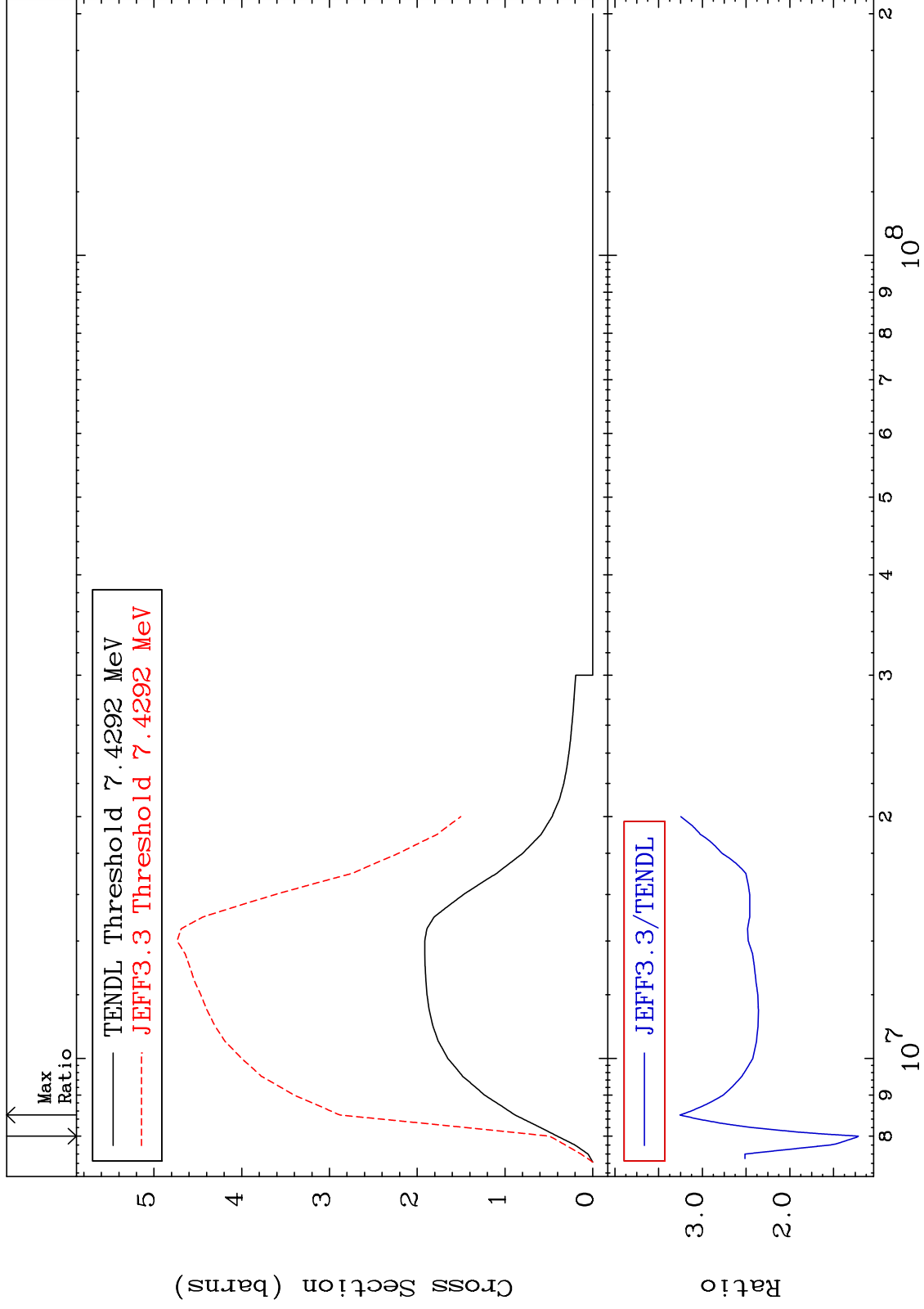


MAT 7243

(n,2n):72-Hf-179g

72-Hf-180

Radionuclide Production Cross Section 21.48 To 225.6 %

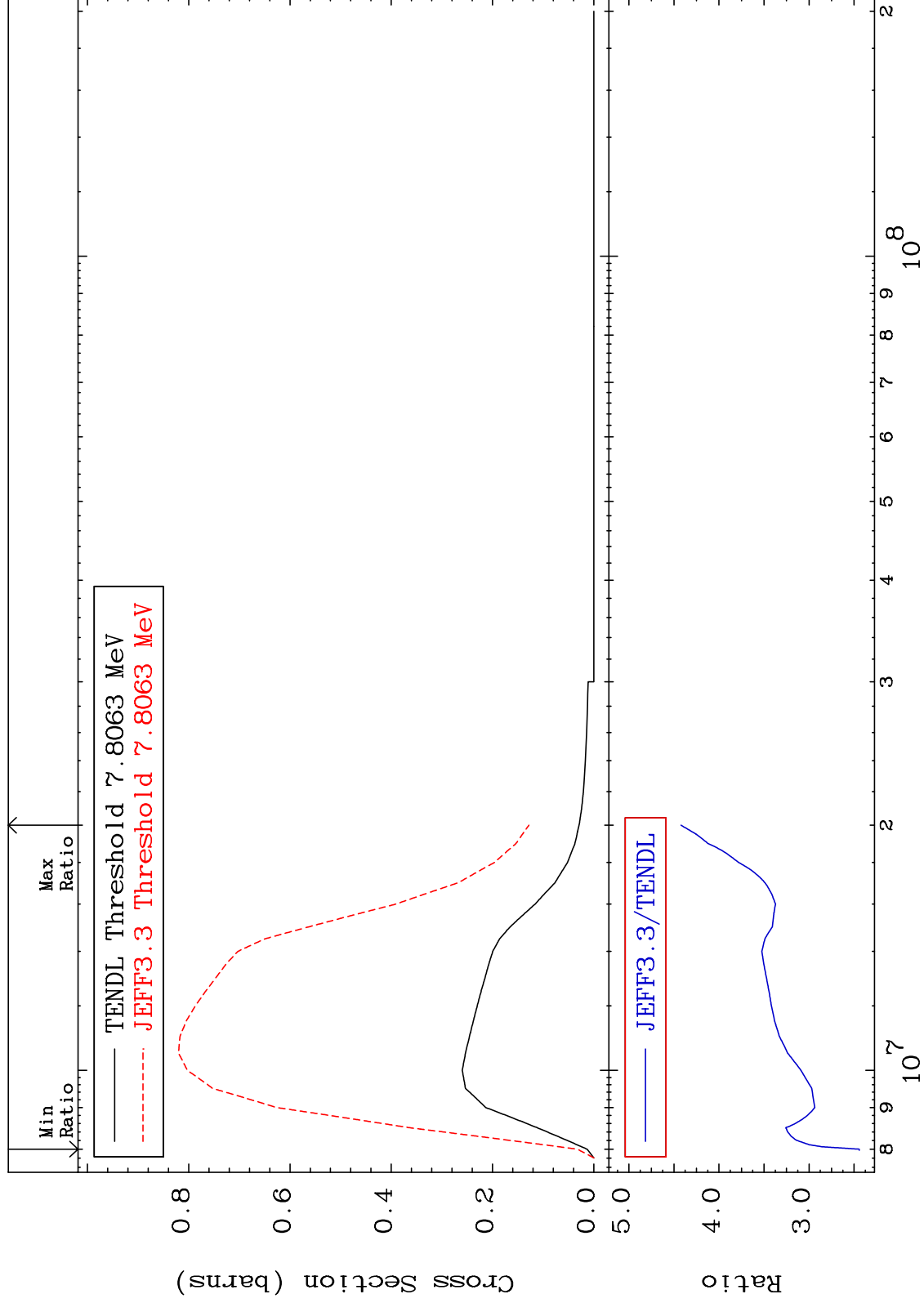


MAT 7243

(n,2n): 72-Hf-179m5

72-Hf-180

Radionuclide Production Cross Section 144.2 To 342.1 %



70

Incident Energy (eV)

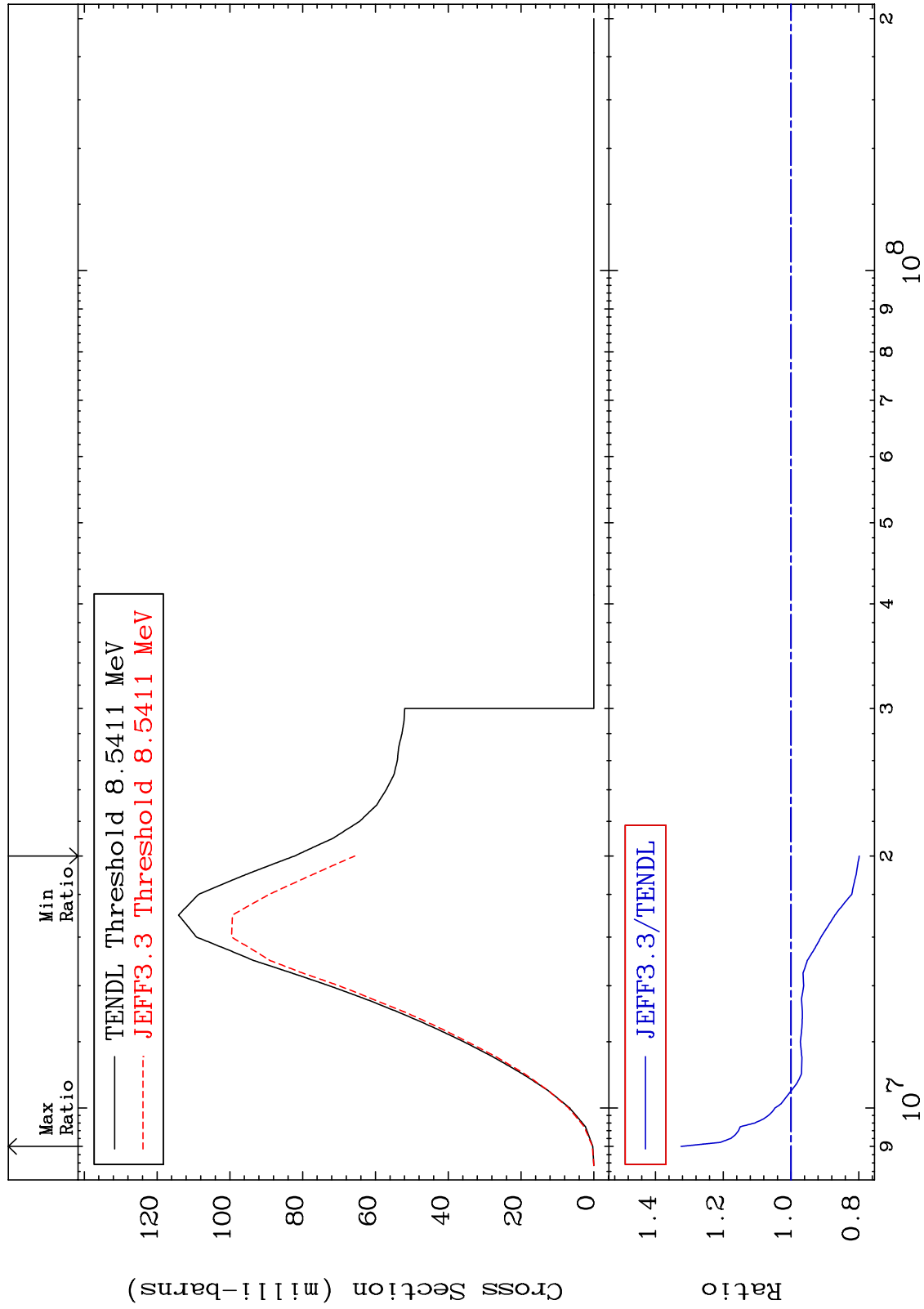
72-Hf-180

MAT 7243

(n,2n): 72-Hf-179m10

72-Hf-180

Radionuclide Production Cross Section -20.14 To 32.43 %



71

Incident Energy (eV)

72-Hf-180

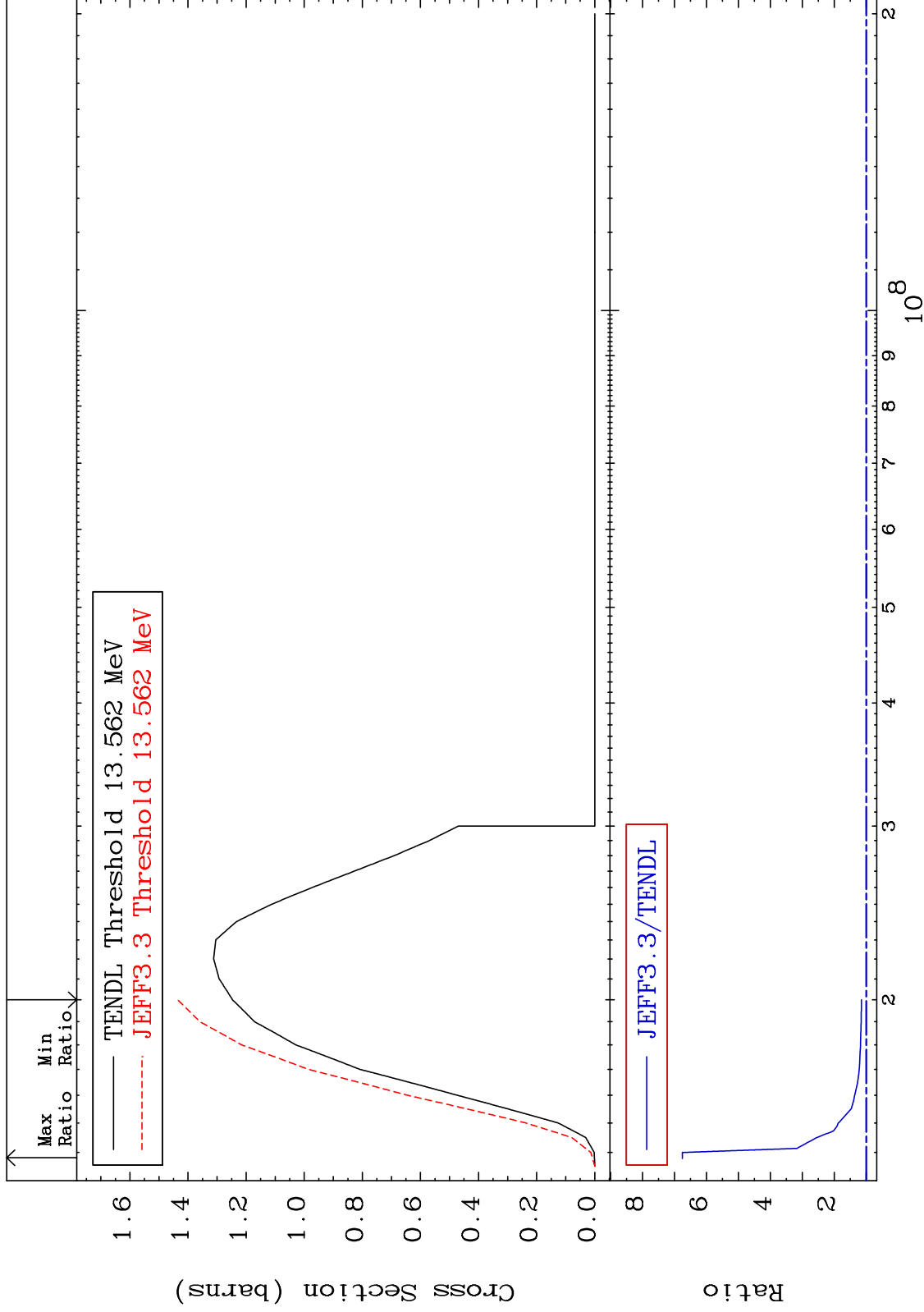


MAT 7243

(n,3n):72-Hf-178g

72-Hf-180

Radionuclide Production Cross Section 15.12 To 575.4 %



72

Incident Energy (eV)

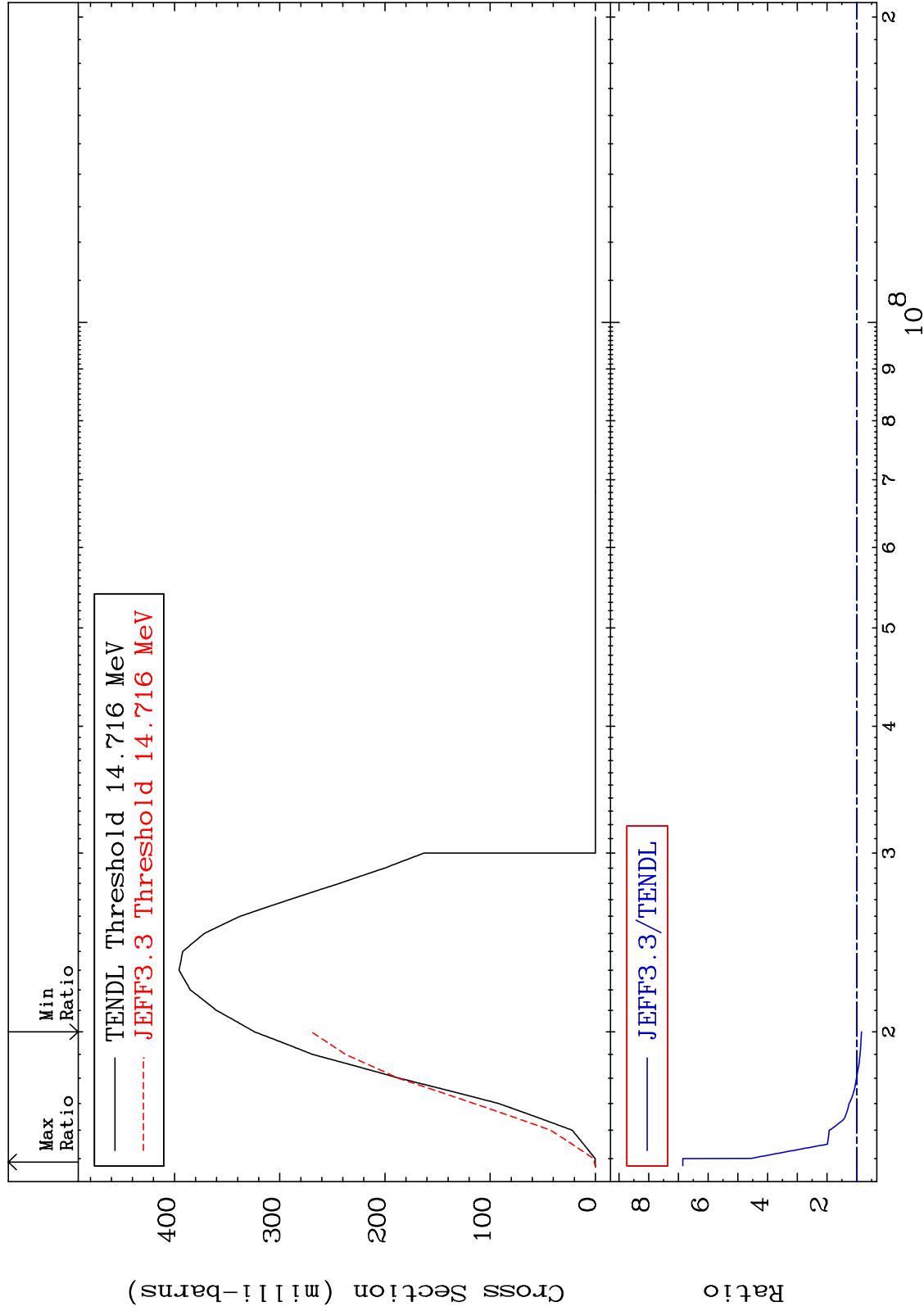
72-Hf-180

MAT 7243

(n, 3n): 72-Hf-178m5

72-Hf-180

Radionuclide Production Cross Section -16.66 To 584.8 %



73

Incident Energy (eV)

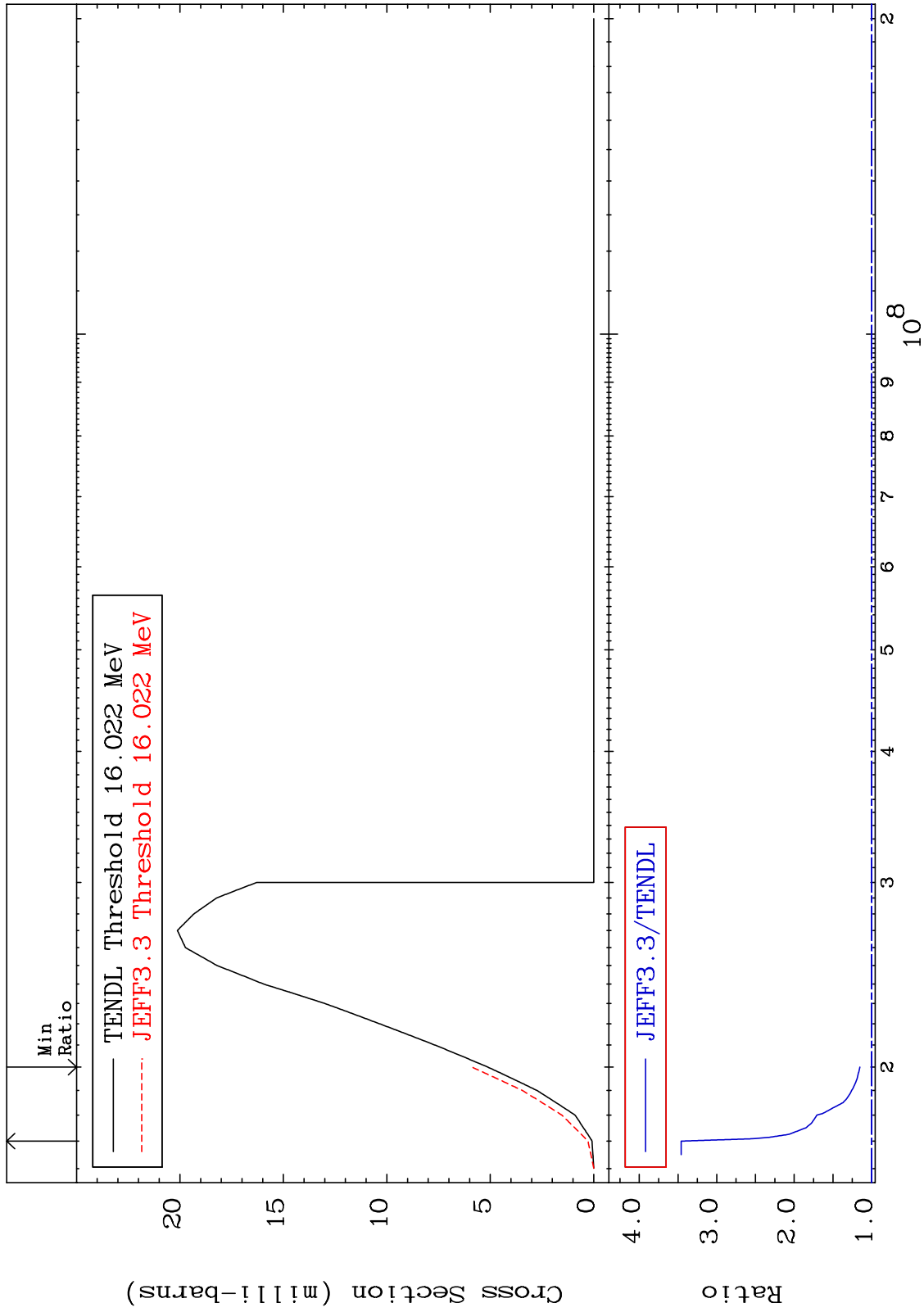
72-Hf-180

MAT 7243

(n,3n):72-Hf-178m10

72-Hf-180

Radionuclide Production Cross Section 15.12 To 245.8 %



74

Incident Energy (eV)

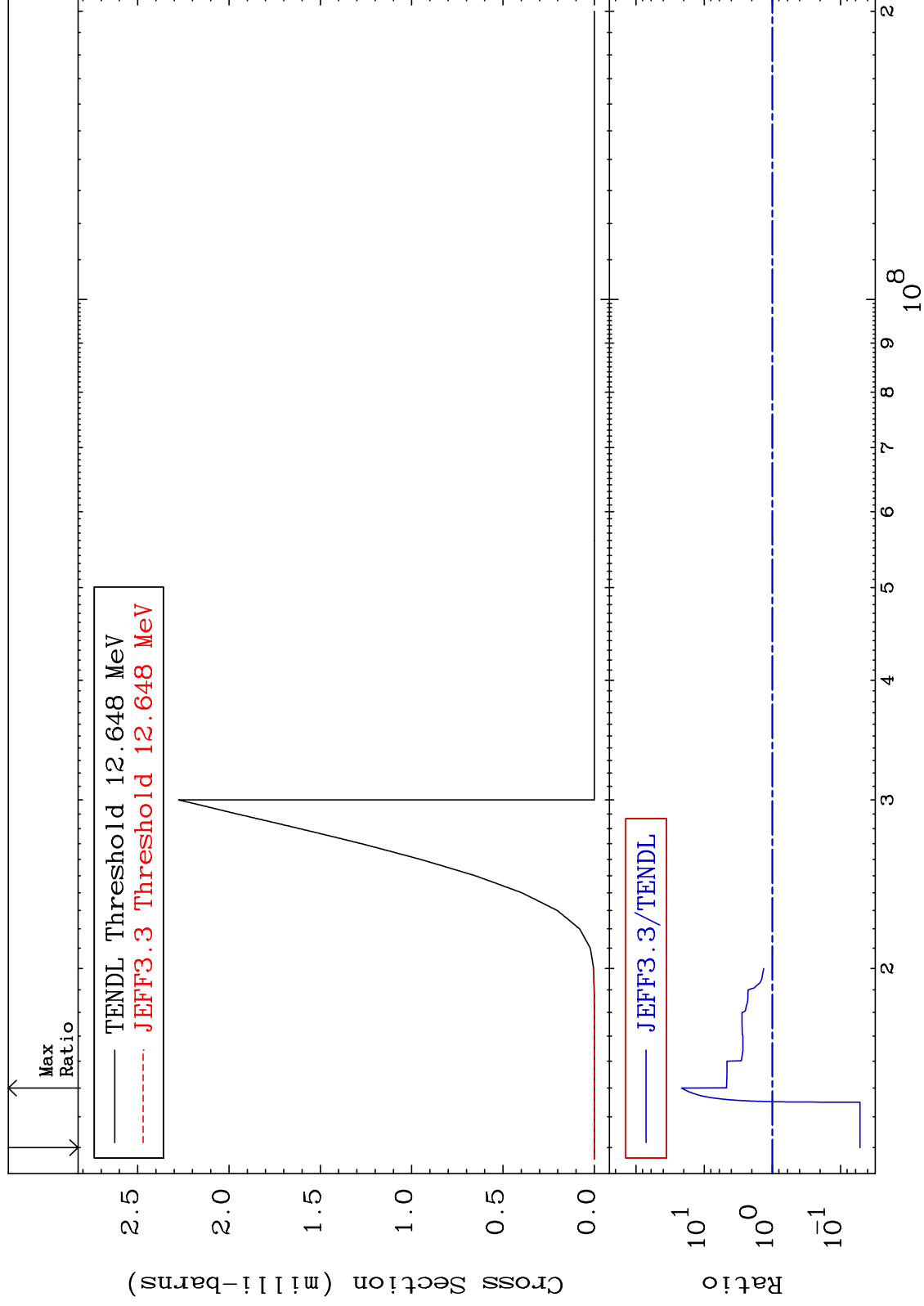
72-Hf-180

MAT 7243

(n, n') d:71-Lu-178g

72-Hf-180

Radionuclide Production Cross Section -94.83 To 2042. %



75

Incident Energy (eV)

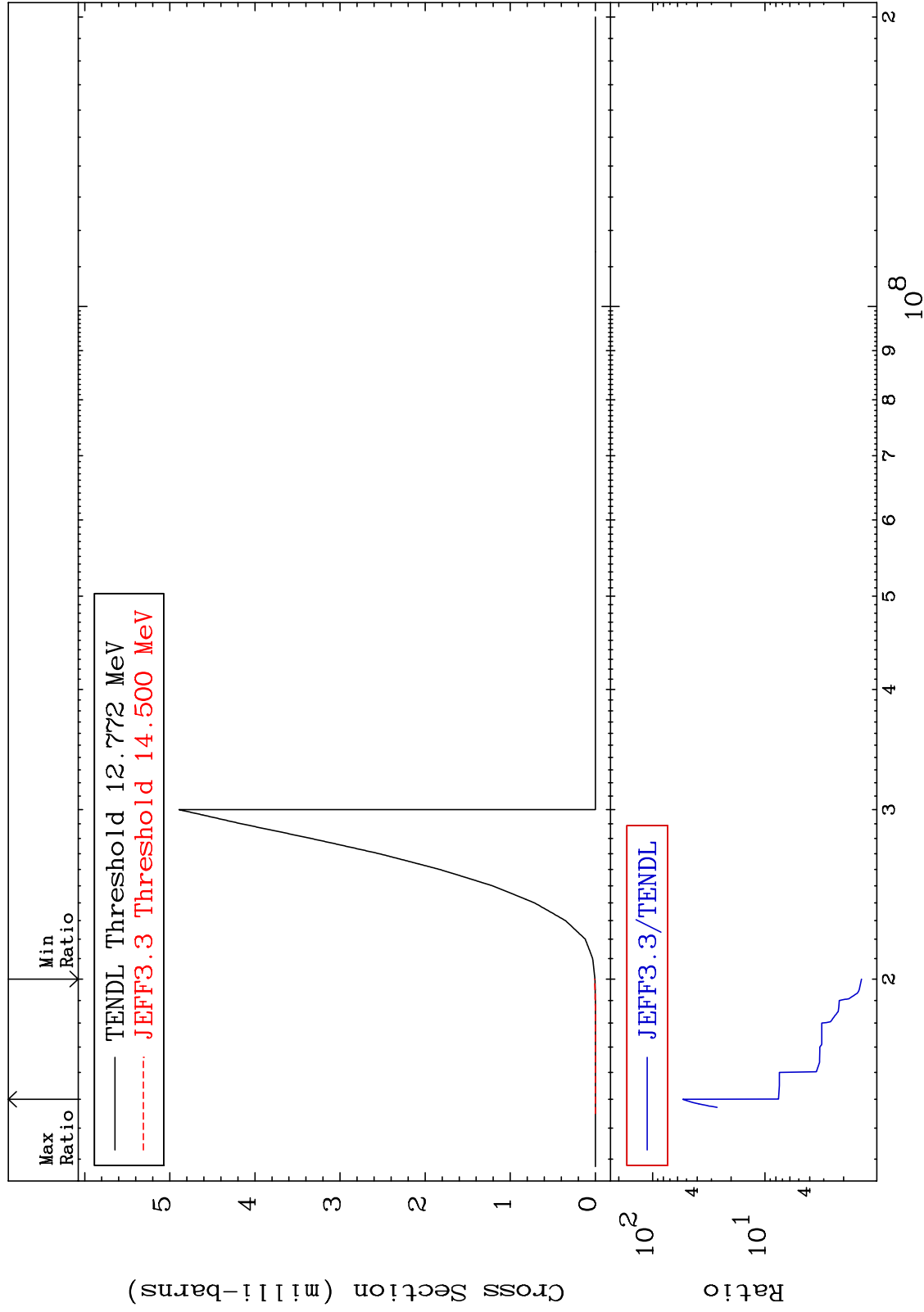
72-Hf-180

MAT 7243

(n, n') d:71-Lu-178m3

72-Hf-180

Radionuclide Production Cross Section 38.44 To 5276. %



76

Incident Energy (eV)

72-Hf-180

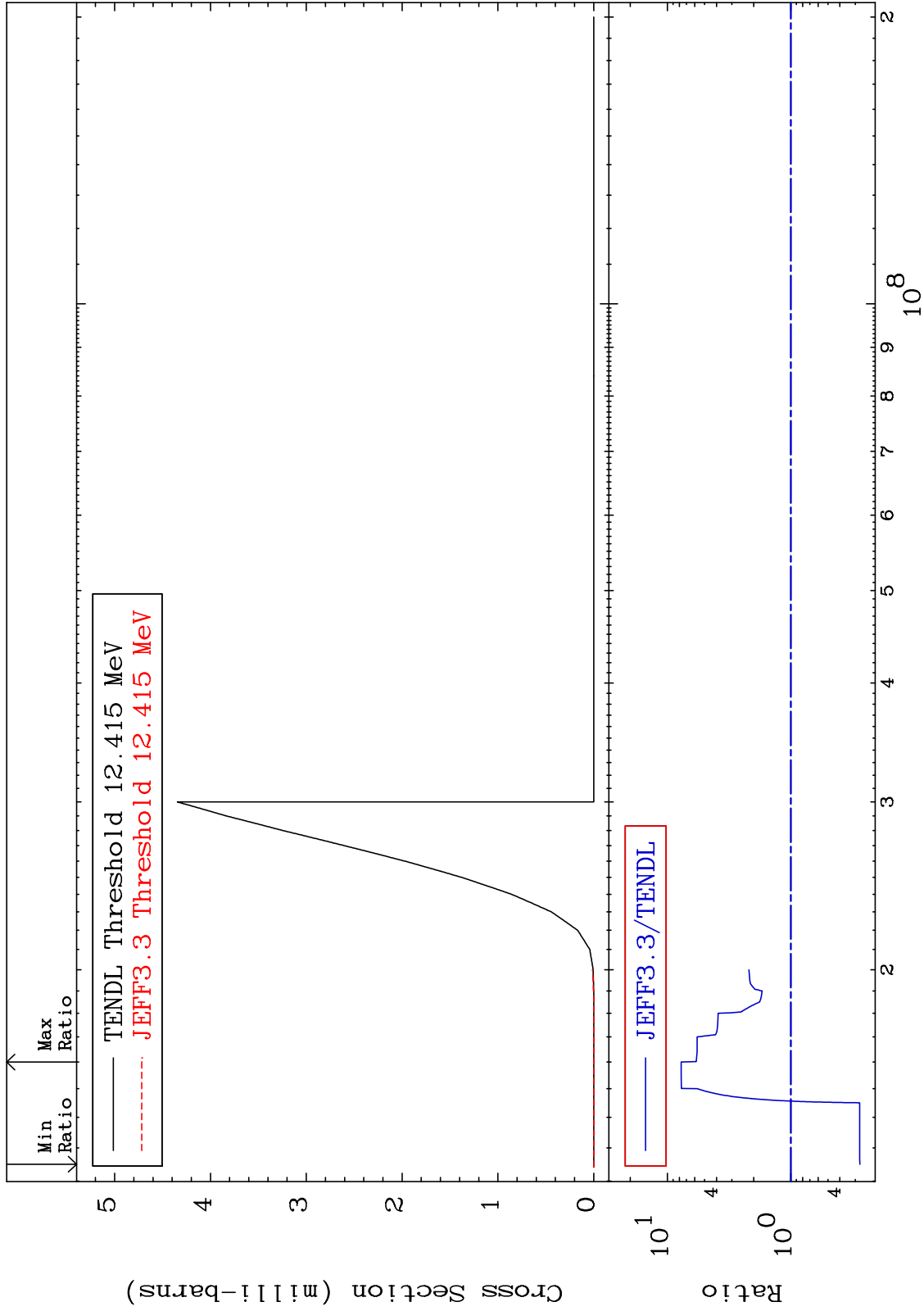
MAT 7243

(n, n') t:71-Lu-177g

72-Hf-180

Radionuclide Production Cross Section

-72.51 To 672.1 %



77

Incident Energy (eV)

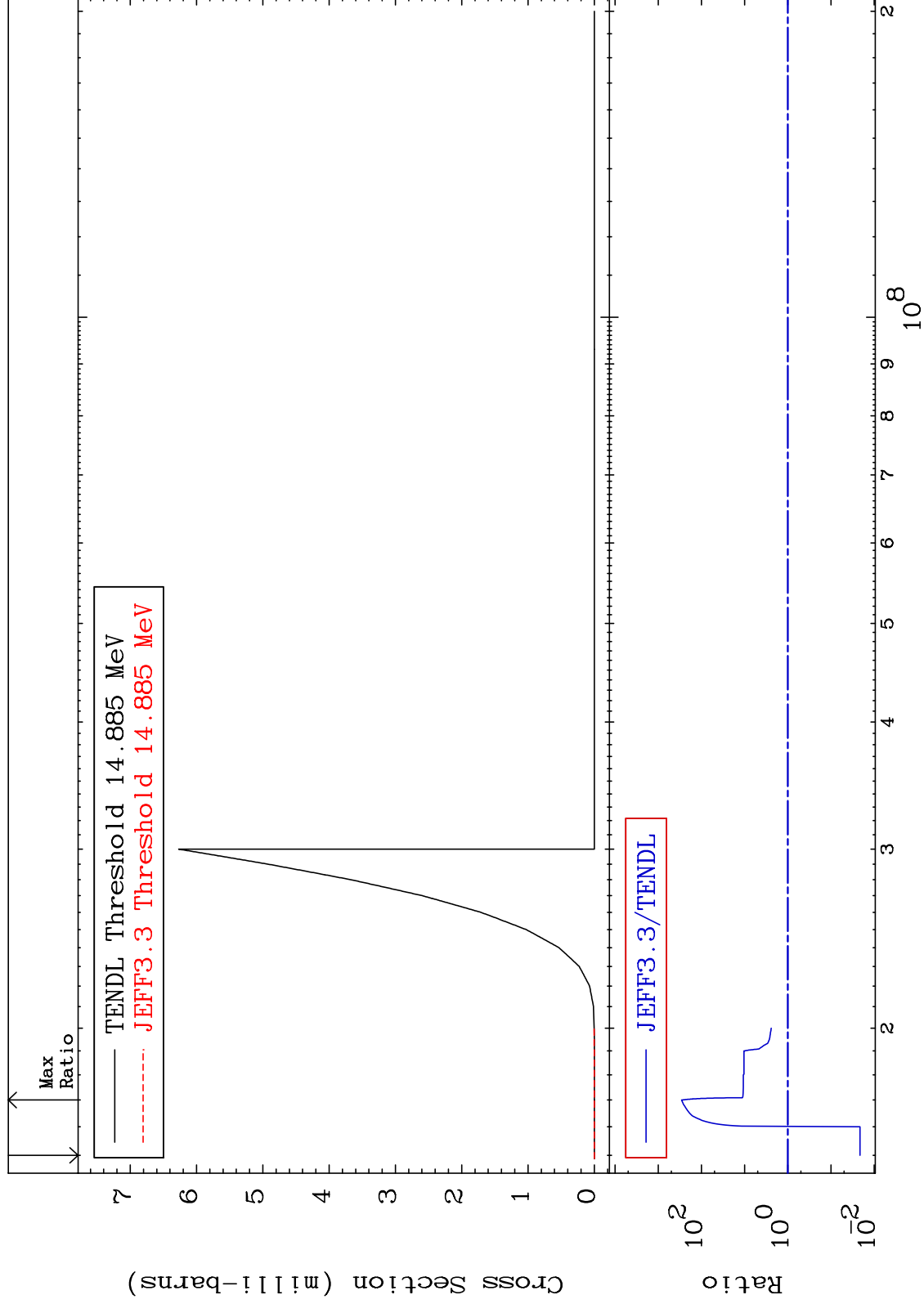
72-Hf-180

MAT 7243

(n,2n) p:71-Lu-178g

72-Hf-180

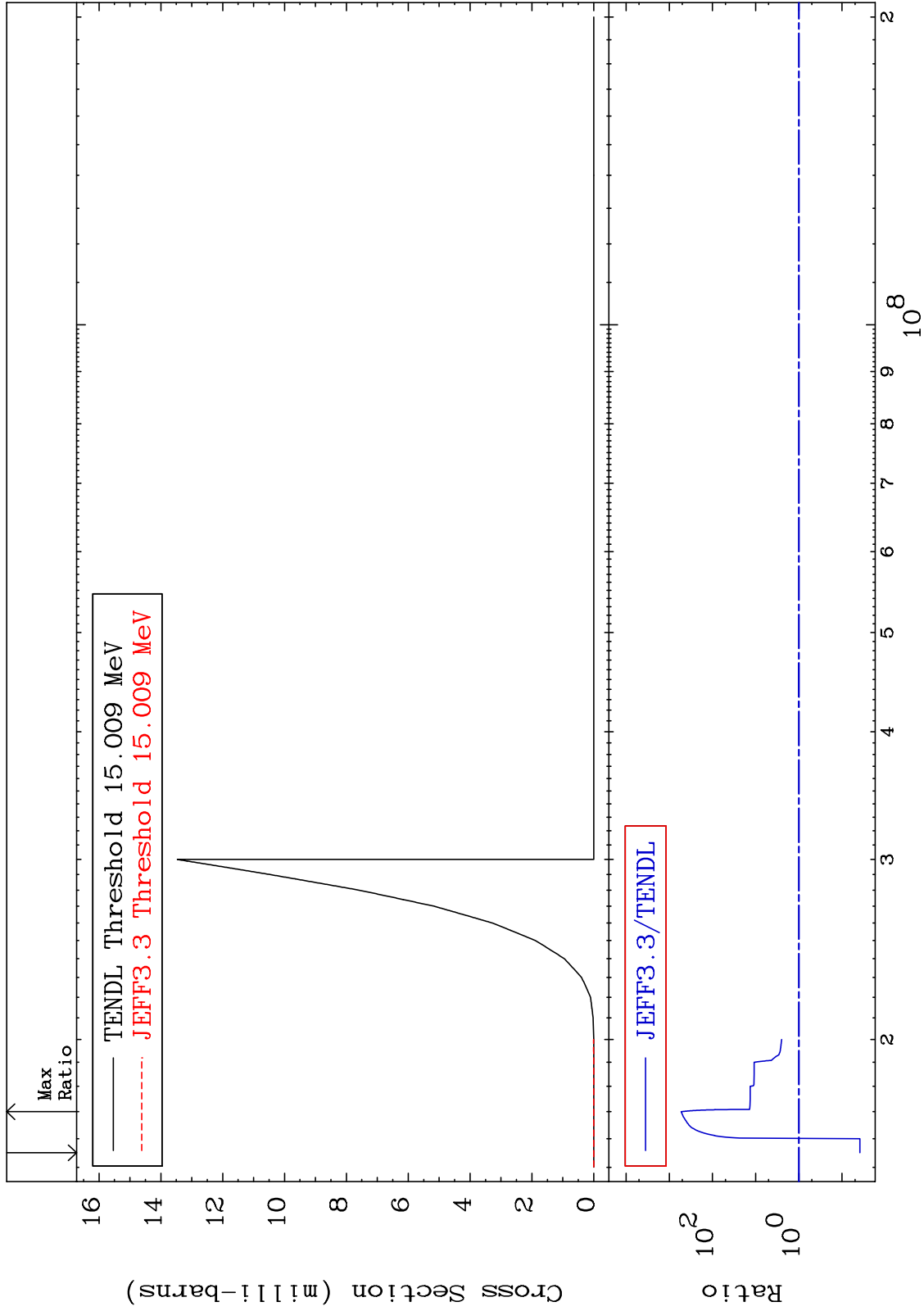
Radionuclide Production Cross Section -97.87 To 9999. %



78

Incident Energy (eV)

72-Hf-180



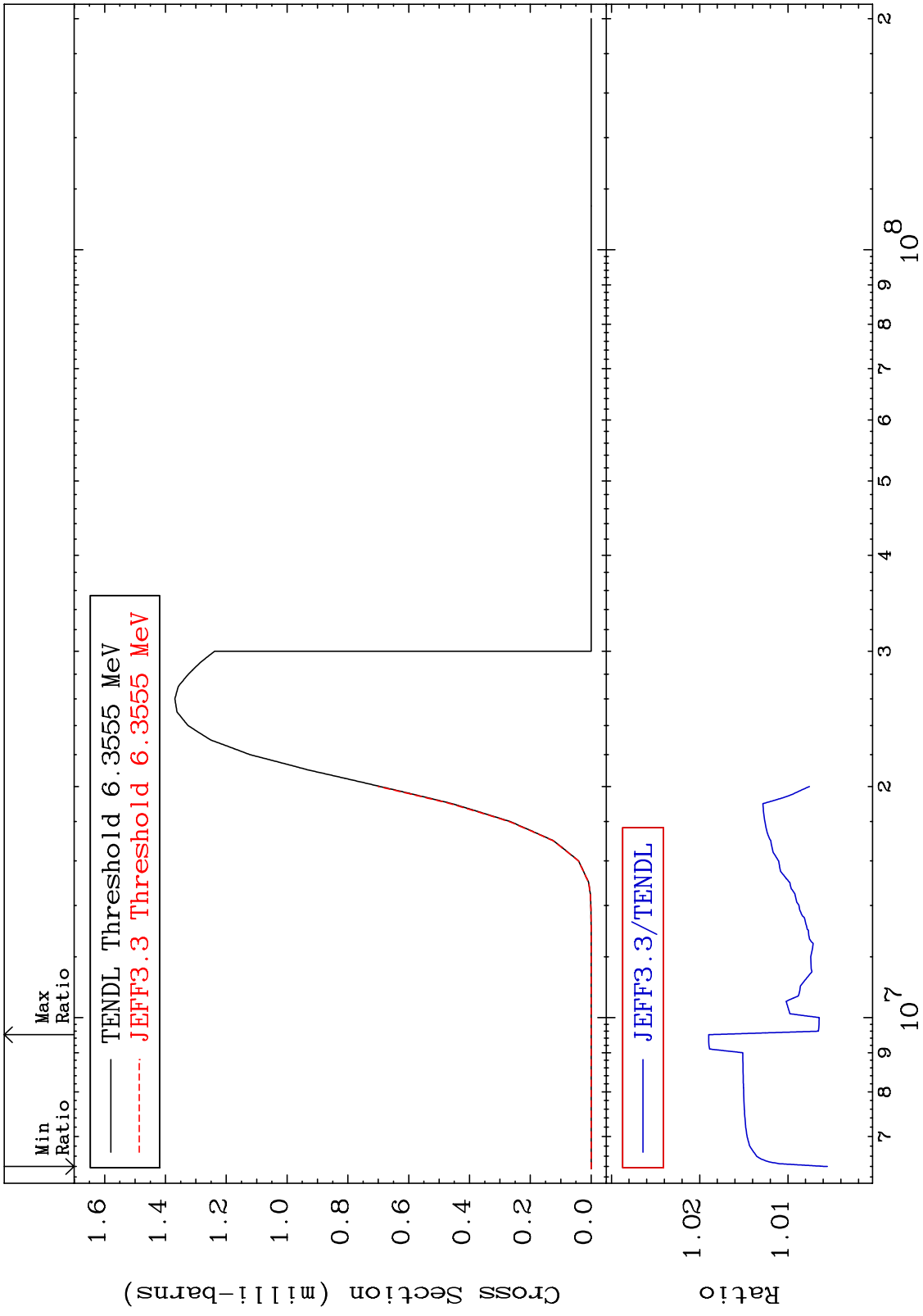


MAT 7243

(n, t): 71-Lu-178g

72-Hf-180

Radionuclide Production Cross Section 0.554 To 1.898 %



80

Incident Energy (eV)

72-Hf-180

MAT 7243

(n, t) : 71-Lu-178m3

72-Hf-180

Radionuclide Production Cross Section -3.811 To 0.576 %

