

Program Complot  
(Version 2018-1)

by

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Press Mouse Button to Start

MAT 7731

77-Ir-193

-27.92 To 1165. %

Total  
Cross Section

Min  
Ratio

Max  
Ratio

— TENDL  
- - - JEFF3.3

Cross Section (barns)

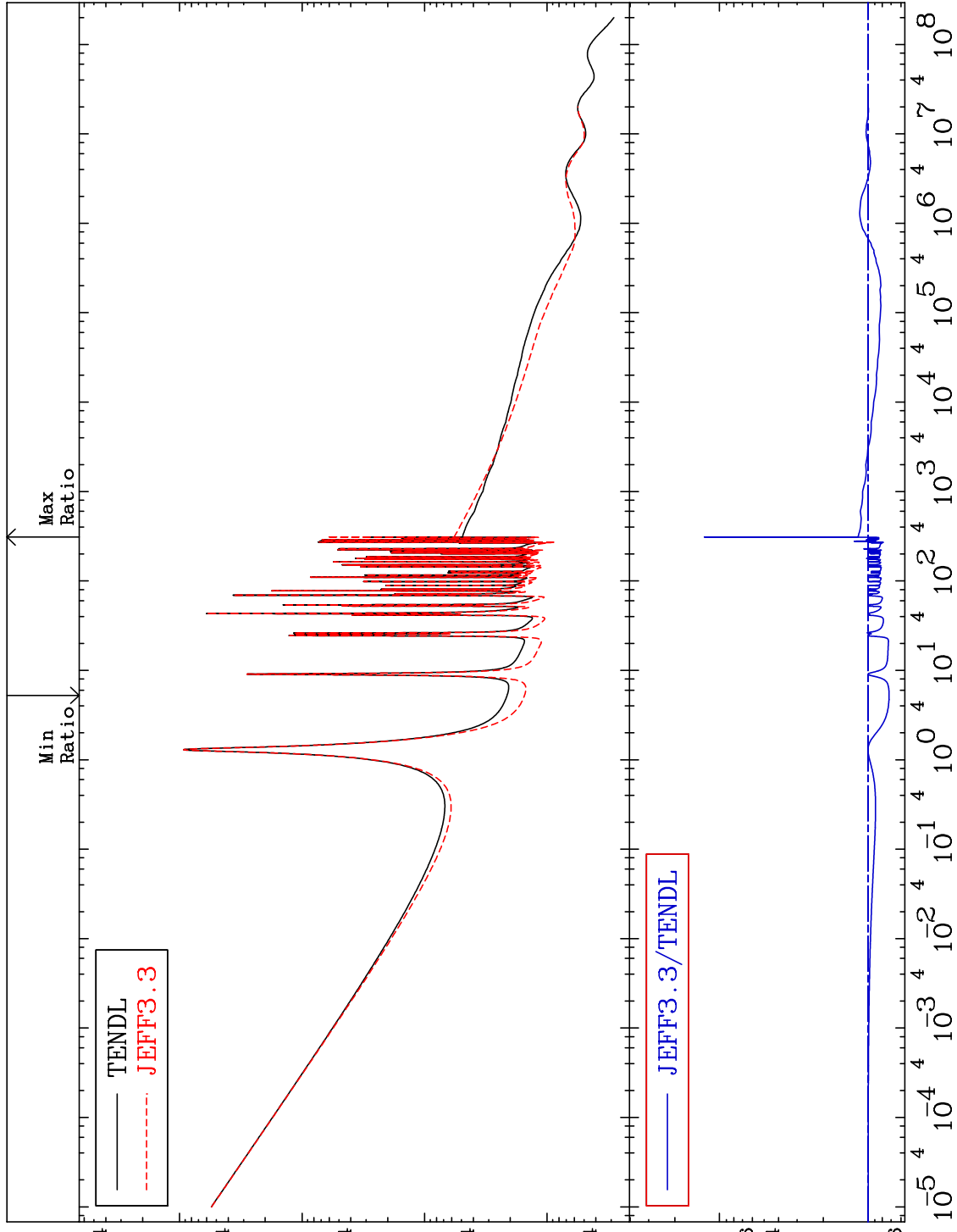
— JEFF3.3/TENDL

Ratio

1

Incident Energy (eV)

77-Ir-193



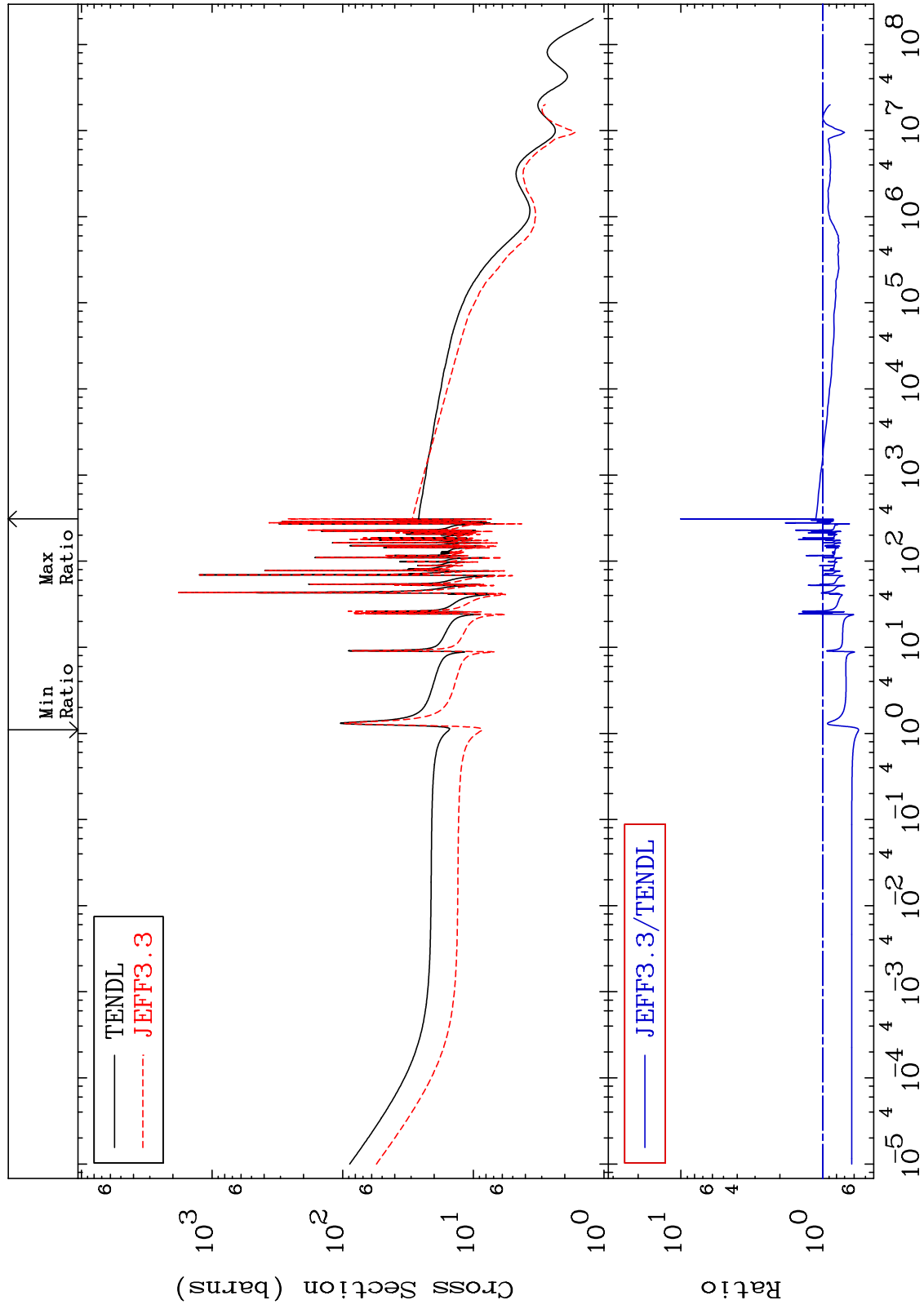
MAT 7731

Elastic

77-Ir-193

Cross Section

-44.11 To 906.0 %



2

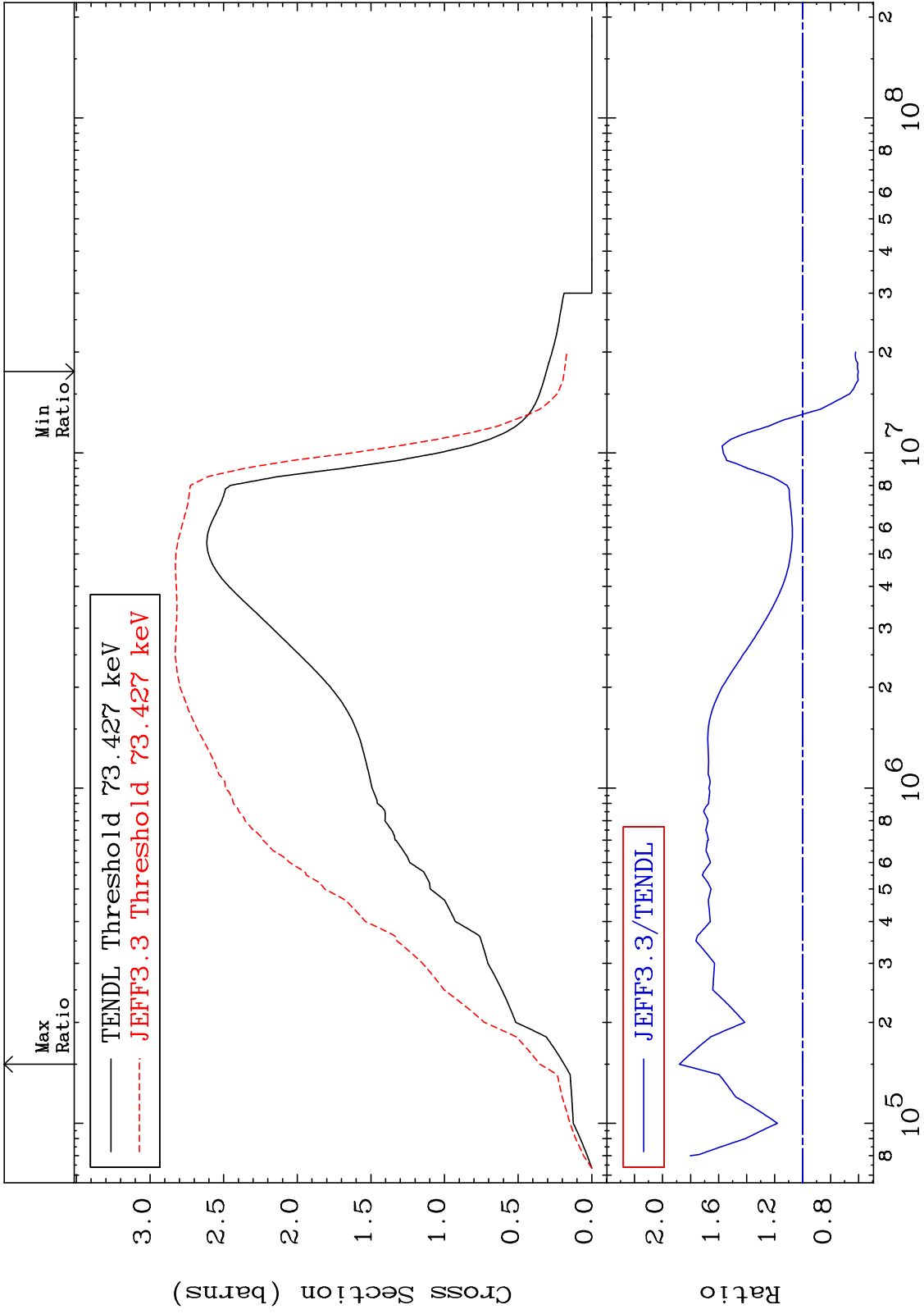
Incident Energy (eV)

77-Ir-193

MAT 7731

Inelastic  
Cross Section

77-Ir-193  
-39.74 To 88.00 %



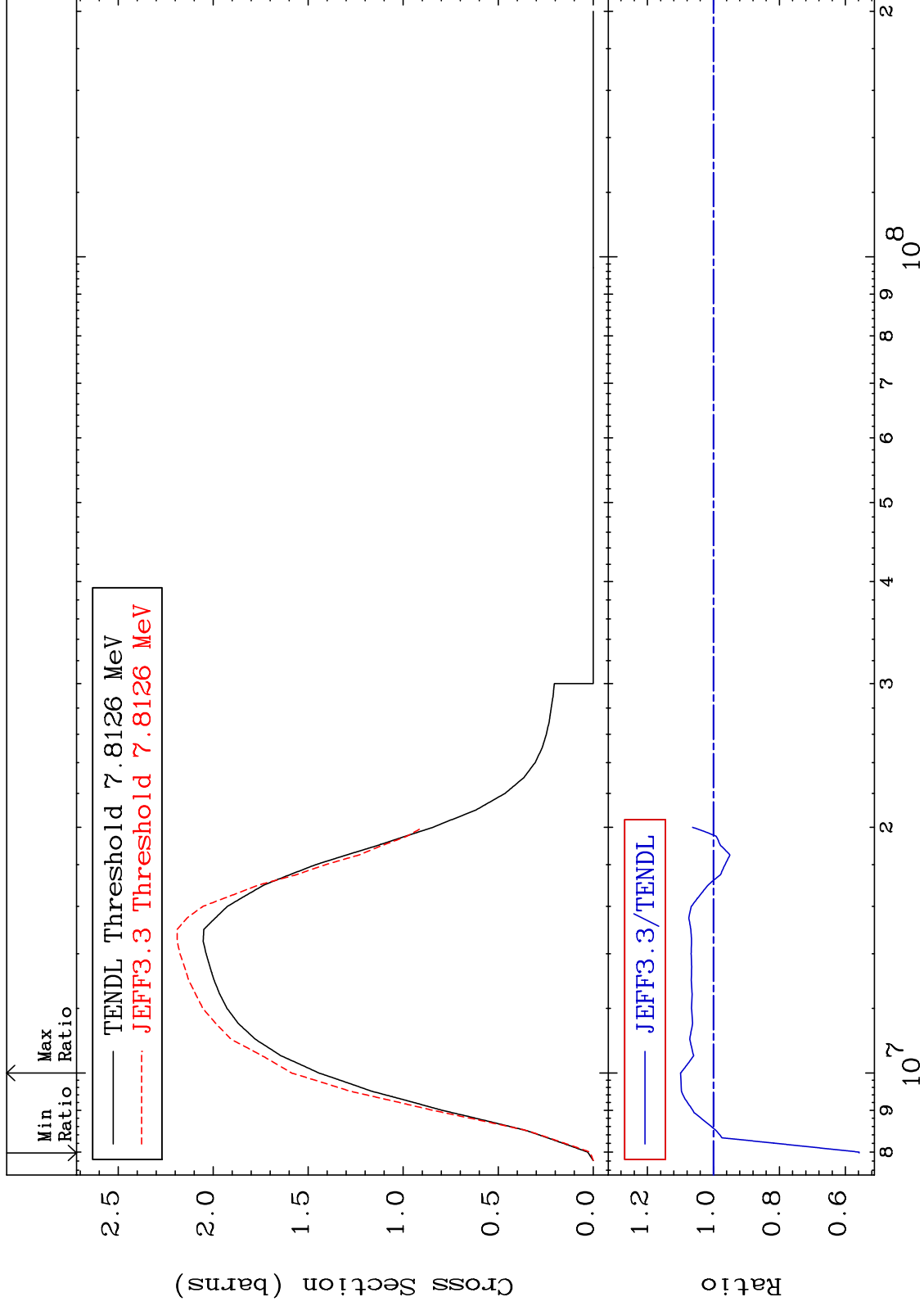
MAT 7731

(n,2n)

<sup>77</sup>Ir-193

Cross Section

-44.19 To 9.941 %



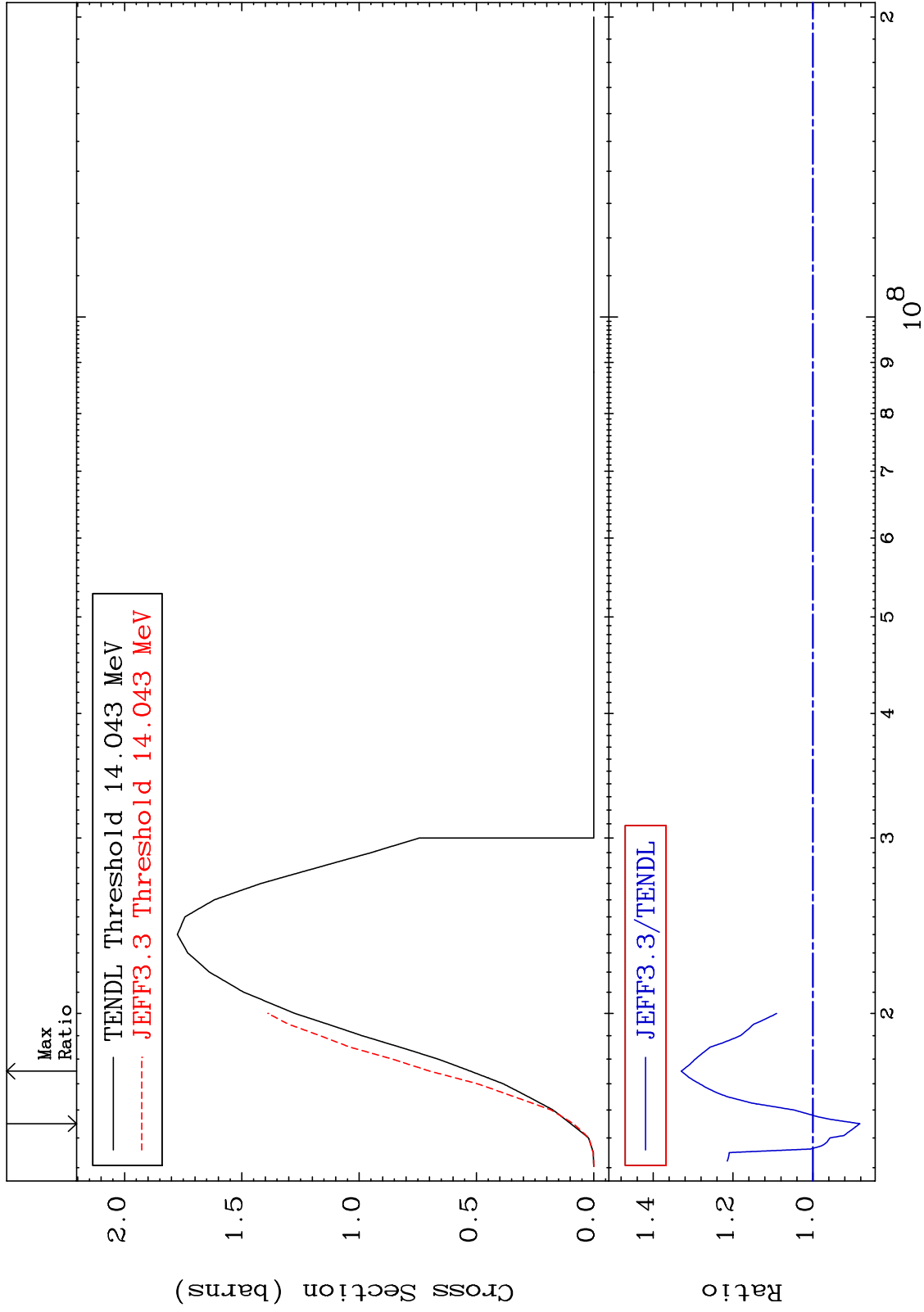
MAT 7731

(n, 3n)

<sup>77</sup>Ir-193

Cross Section

-11.79 To 32.96 %



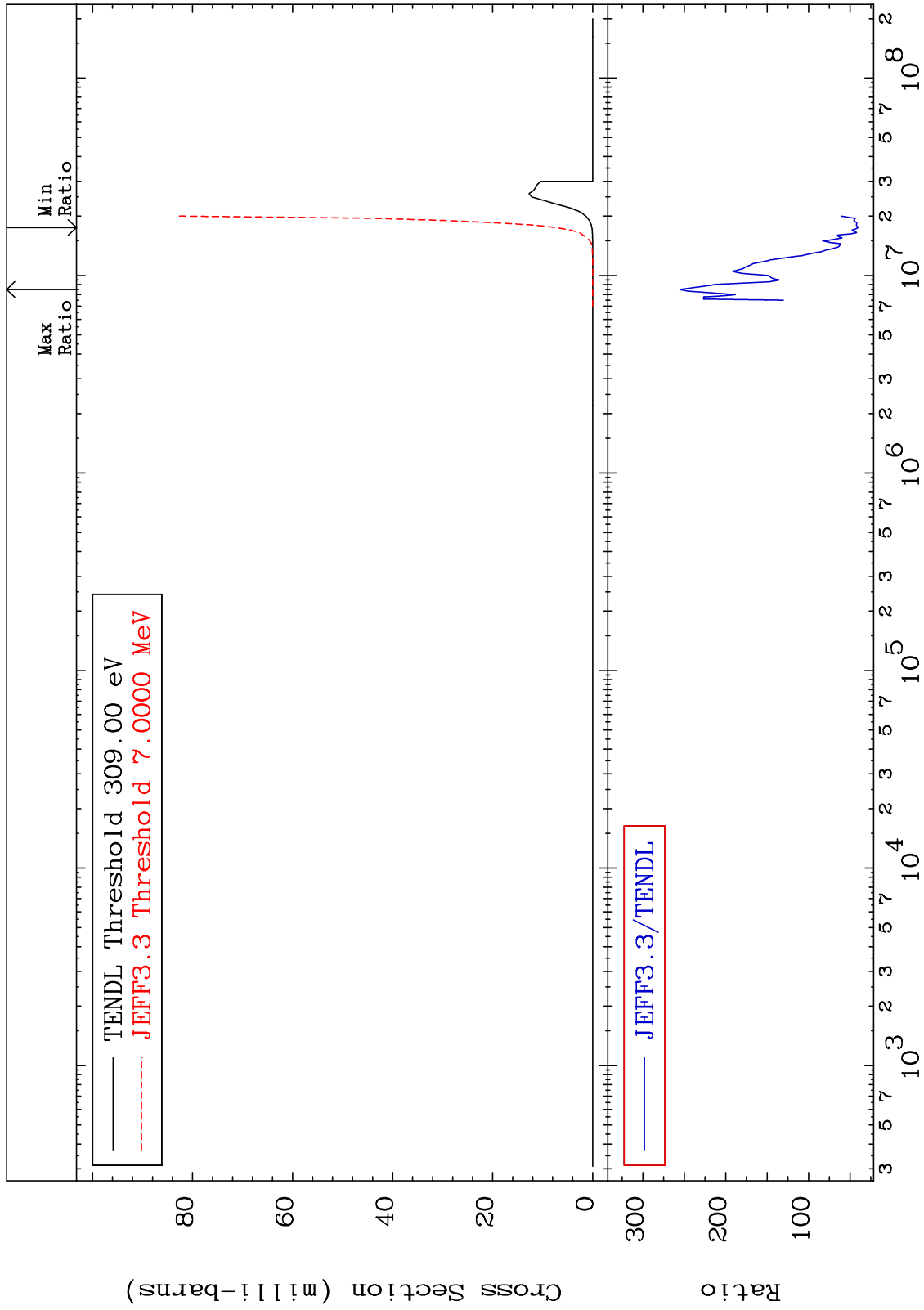
MAT 7731

(n, n')  $\alpha$

<sup>77</sup>Ir-193

Cross Section

3898. To 9999. %



6

Incident Energy (eV)

<sup>77</sup>Ir-193

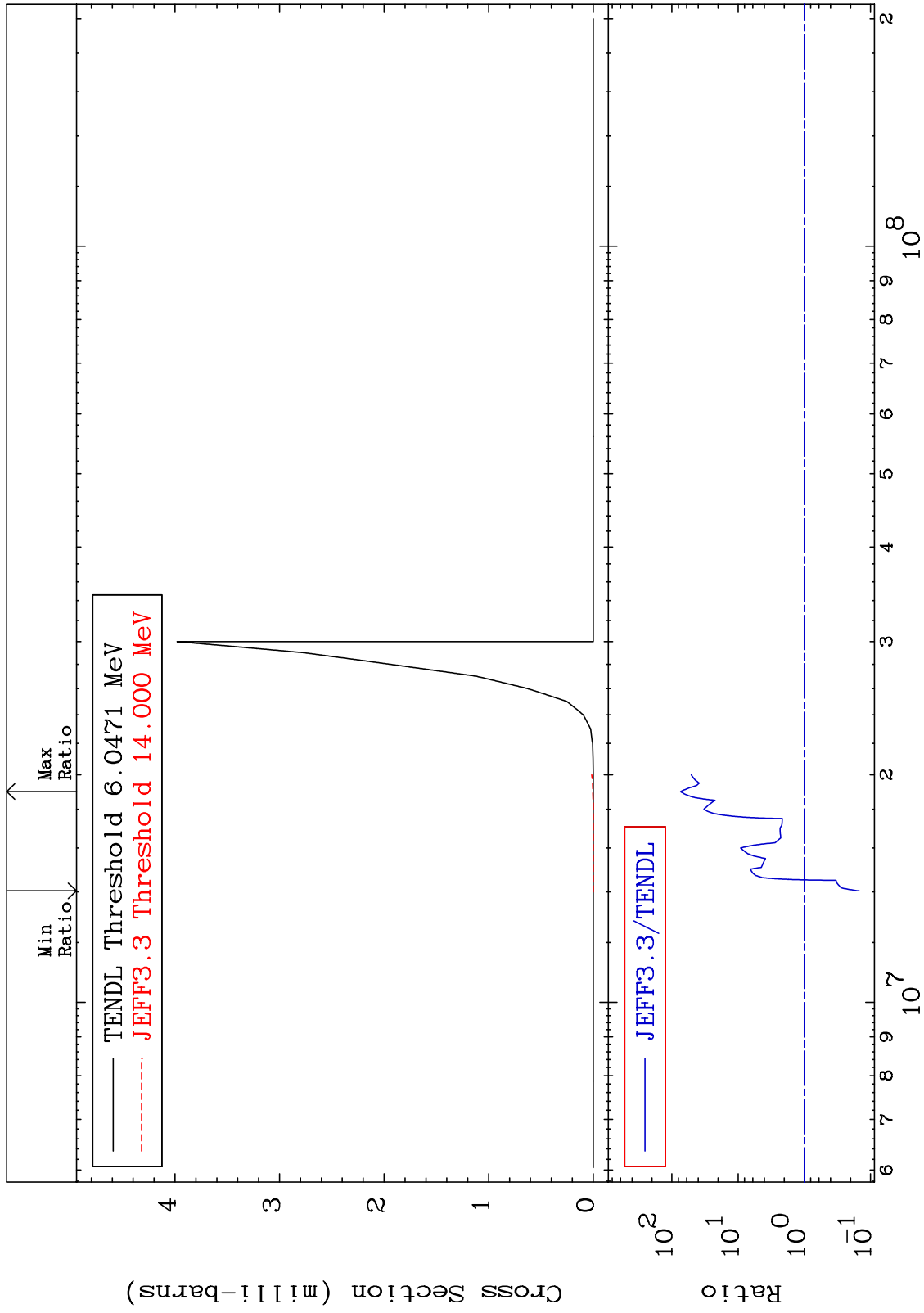
MAT 7731

(n,2n)  $\alpha$

77-Ir-193

Cross Section

-85.19 To 7288. %



7

Incident Energy (eV)

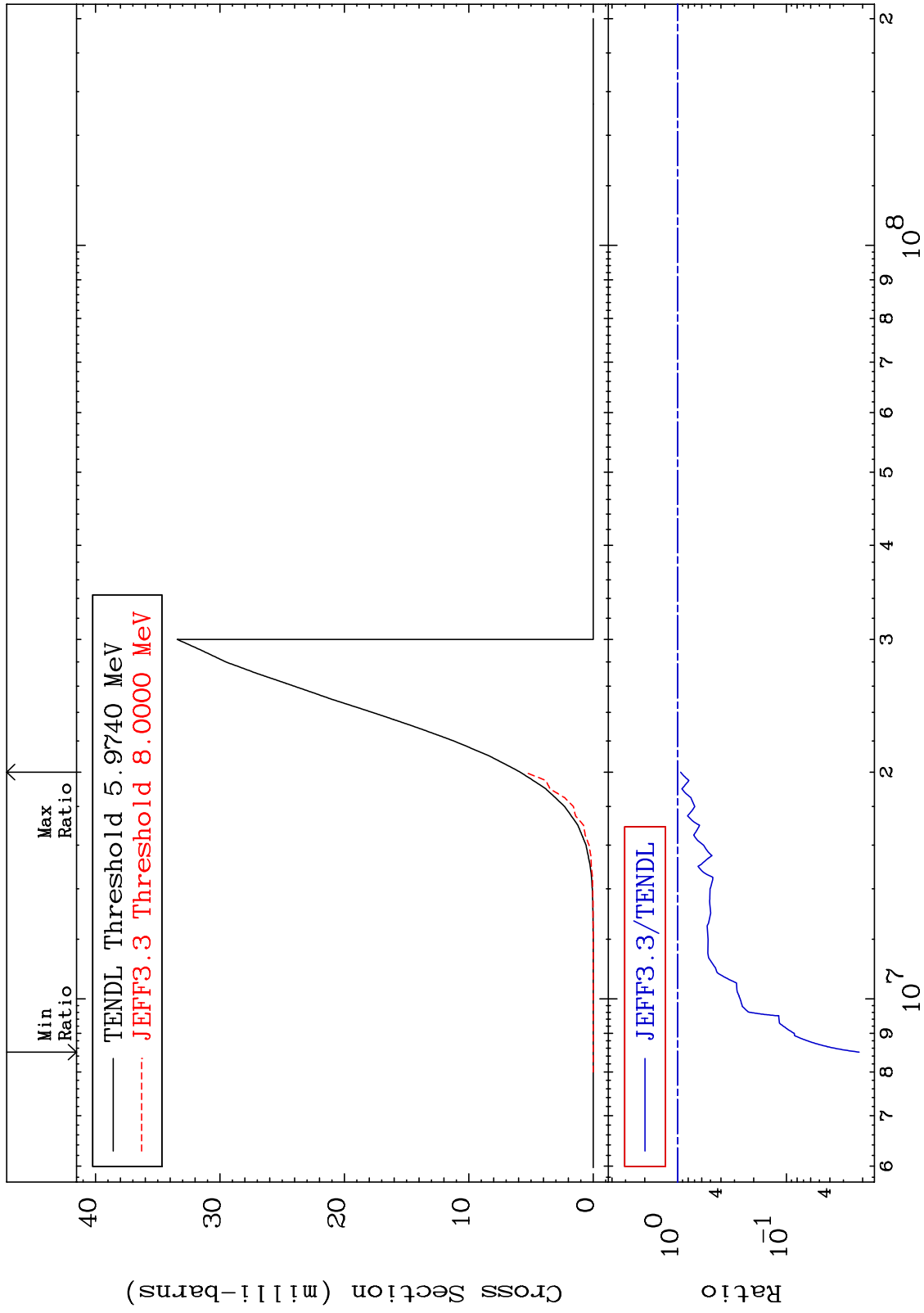
77-Ir-193



MAT 7731

(n, n') p  
Cross Section

<sup>77</sup>Ir-193  
-97.85 To -6.237%



8

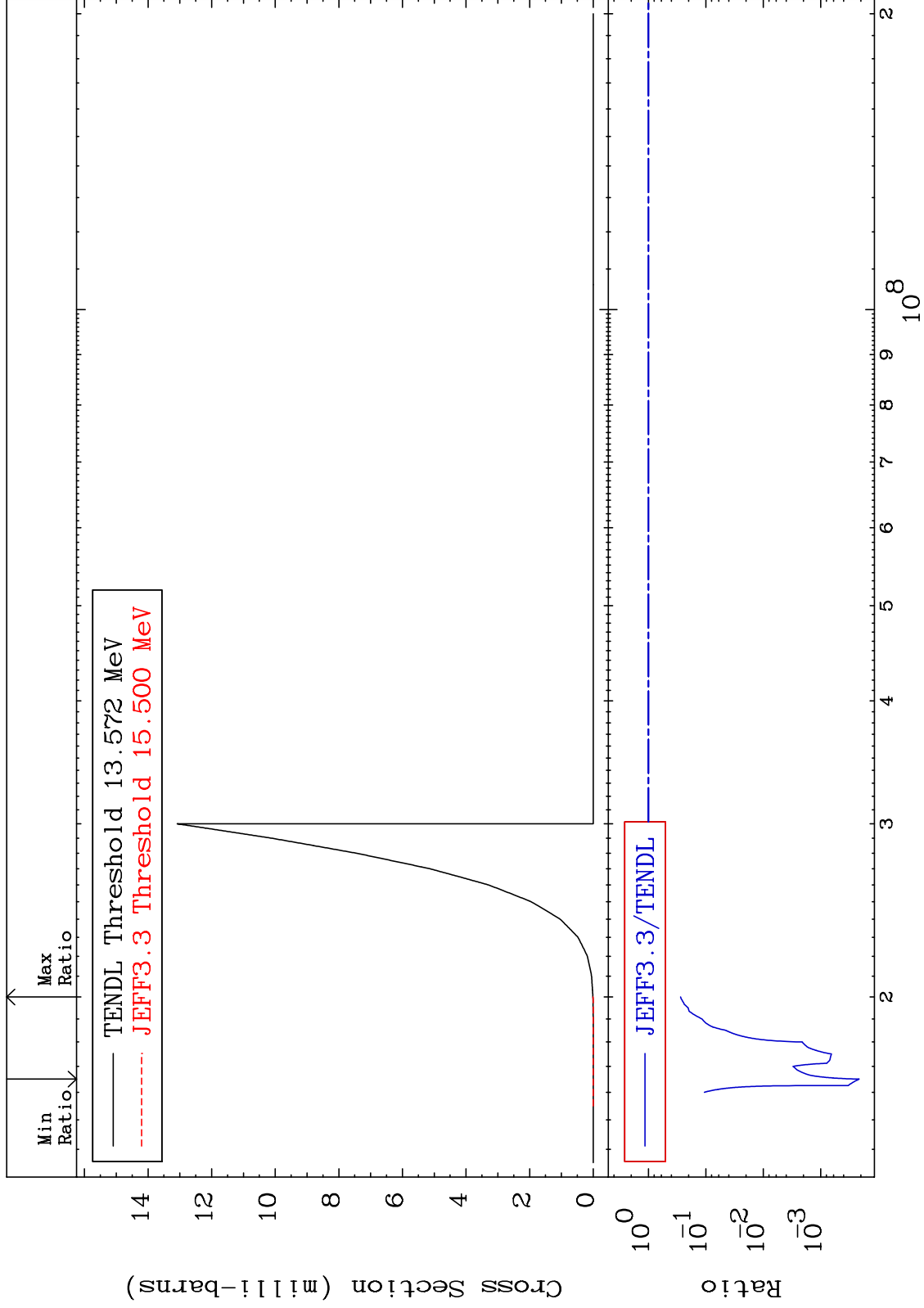
Incident Energy (eV)

<sup>77</sup>Ir-193

MAT 7731

(n,2n) p  
Cross Section

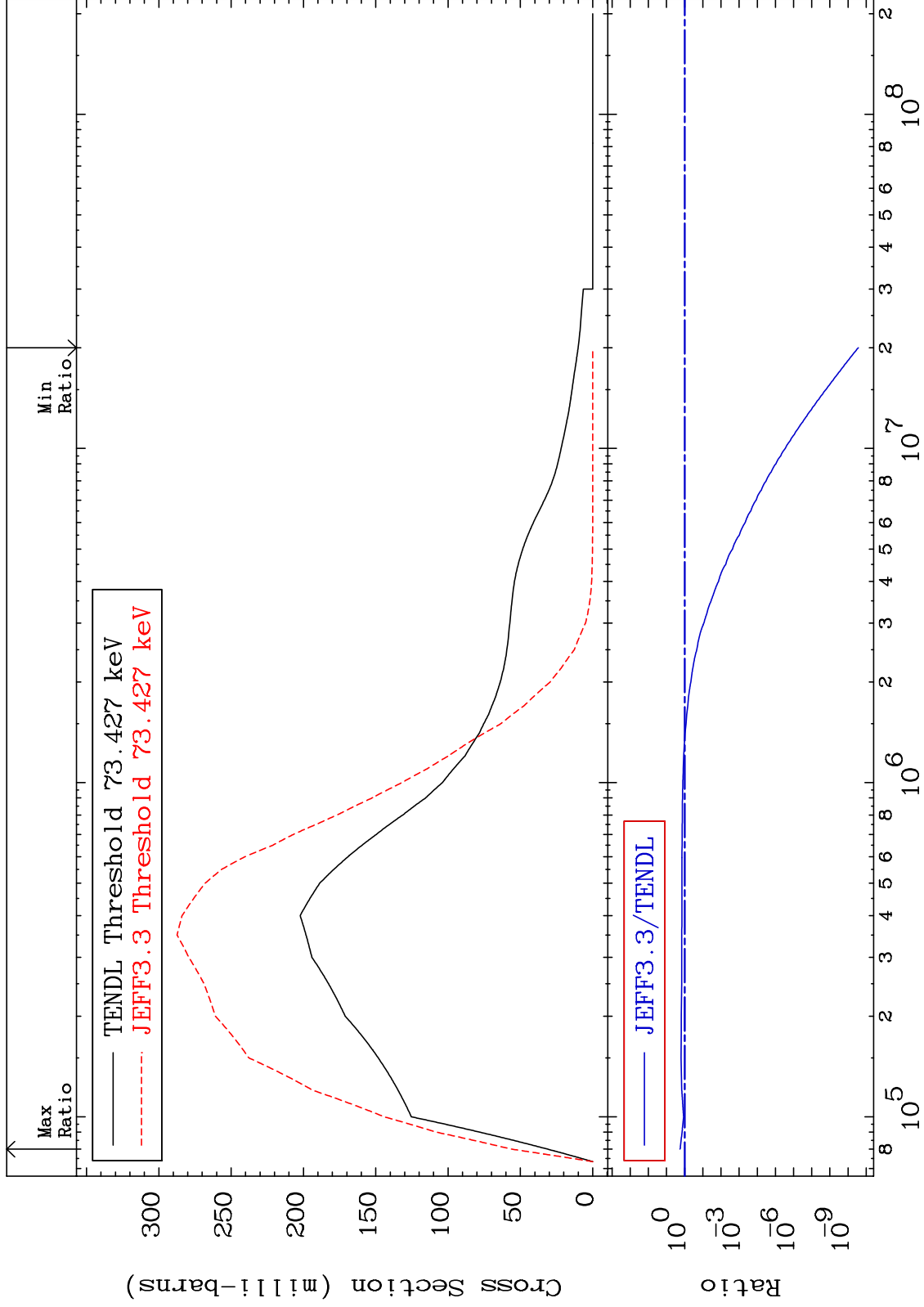
<sup>77</sup>Ir-193  
-99.98 To -72.38%



MAT 7731

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

77-Ir-193  
-100.0 To 80.22 %



77-Ir-193

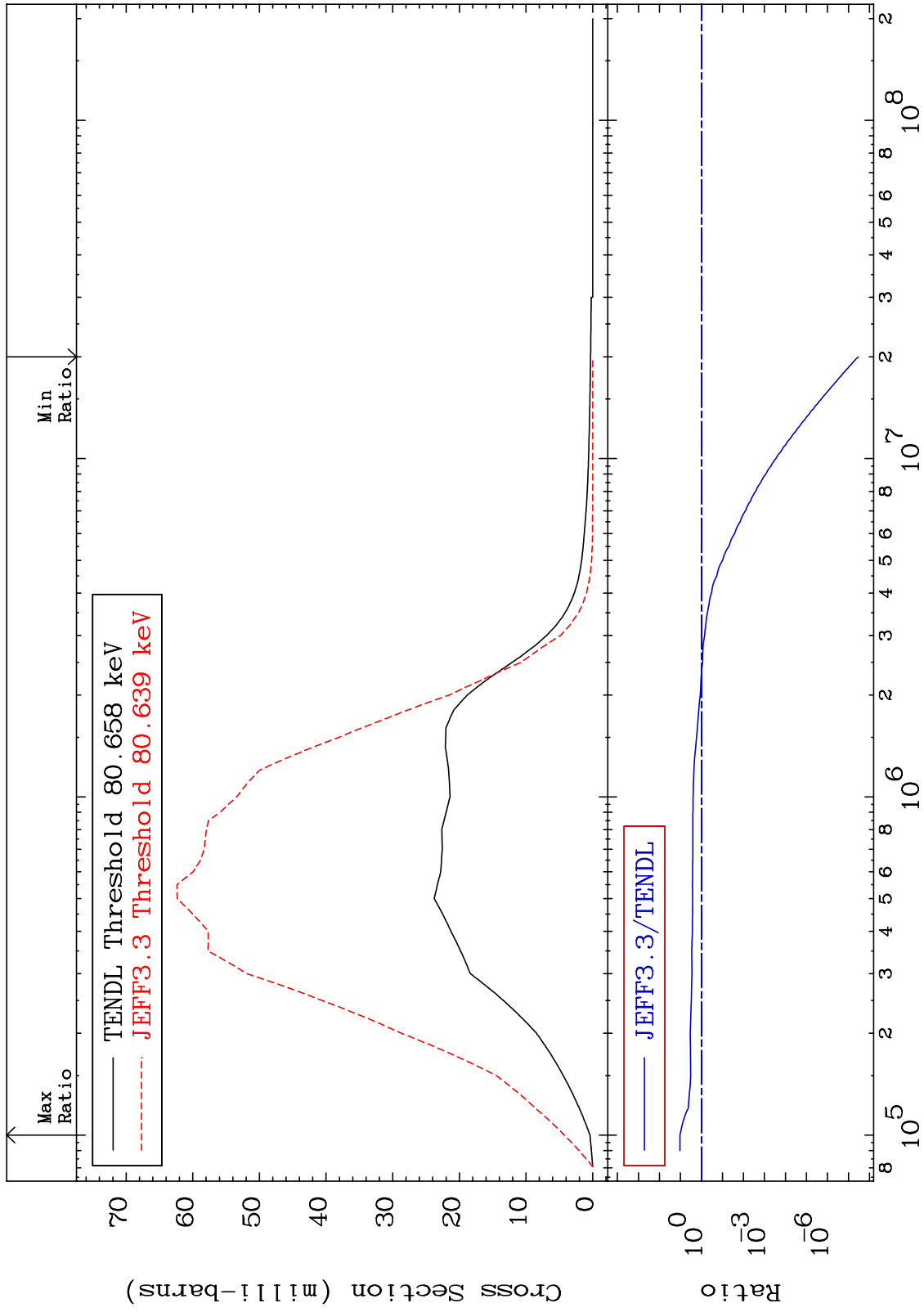
Incident Energy (eV)

10

MAT 7731

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

77-Ir-193  
-100.0 To 947.7 %



11

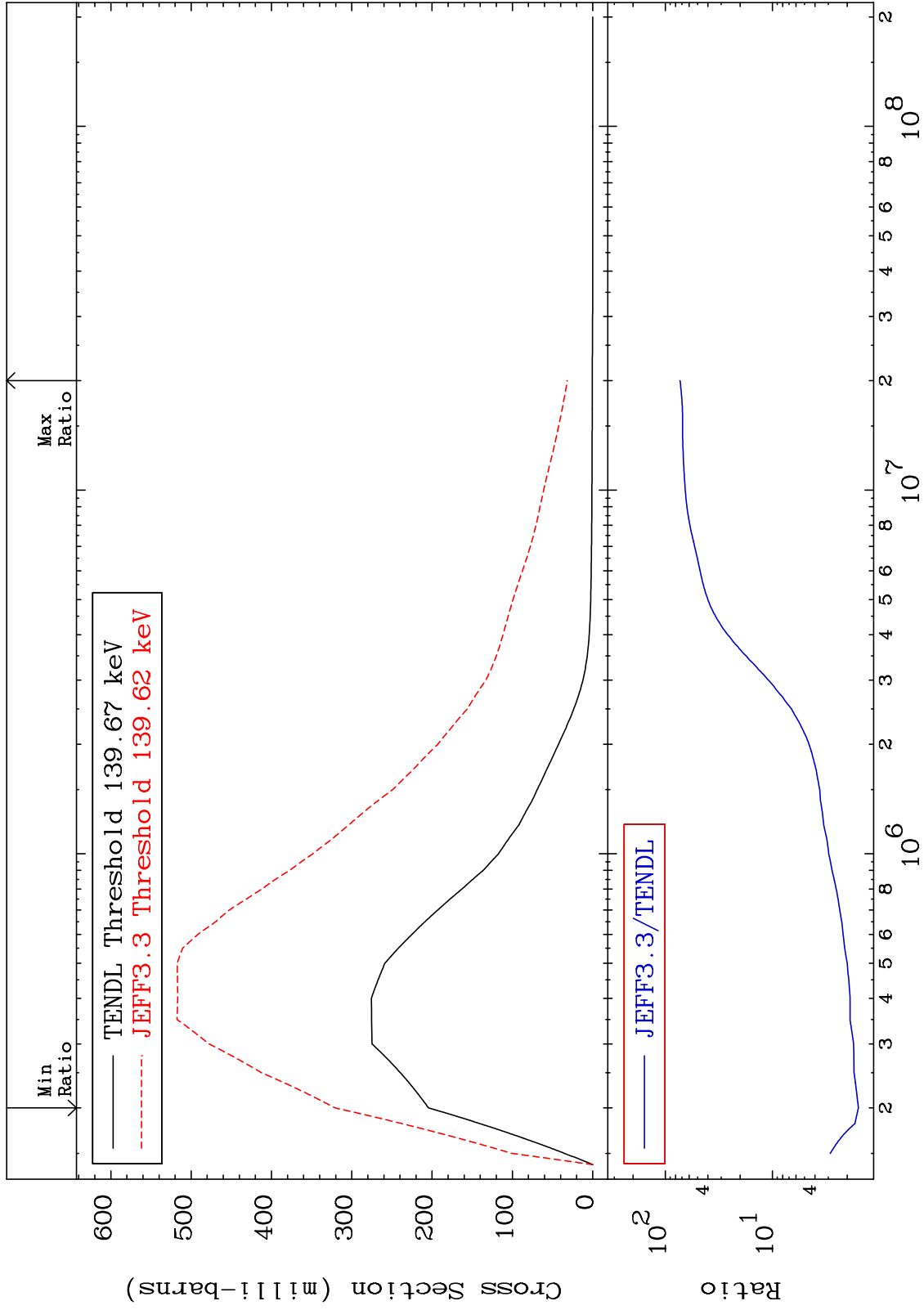
Incident Energy (eV)

77-Ir-193

MAT 7731

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

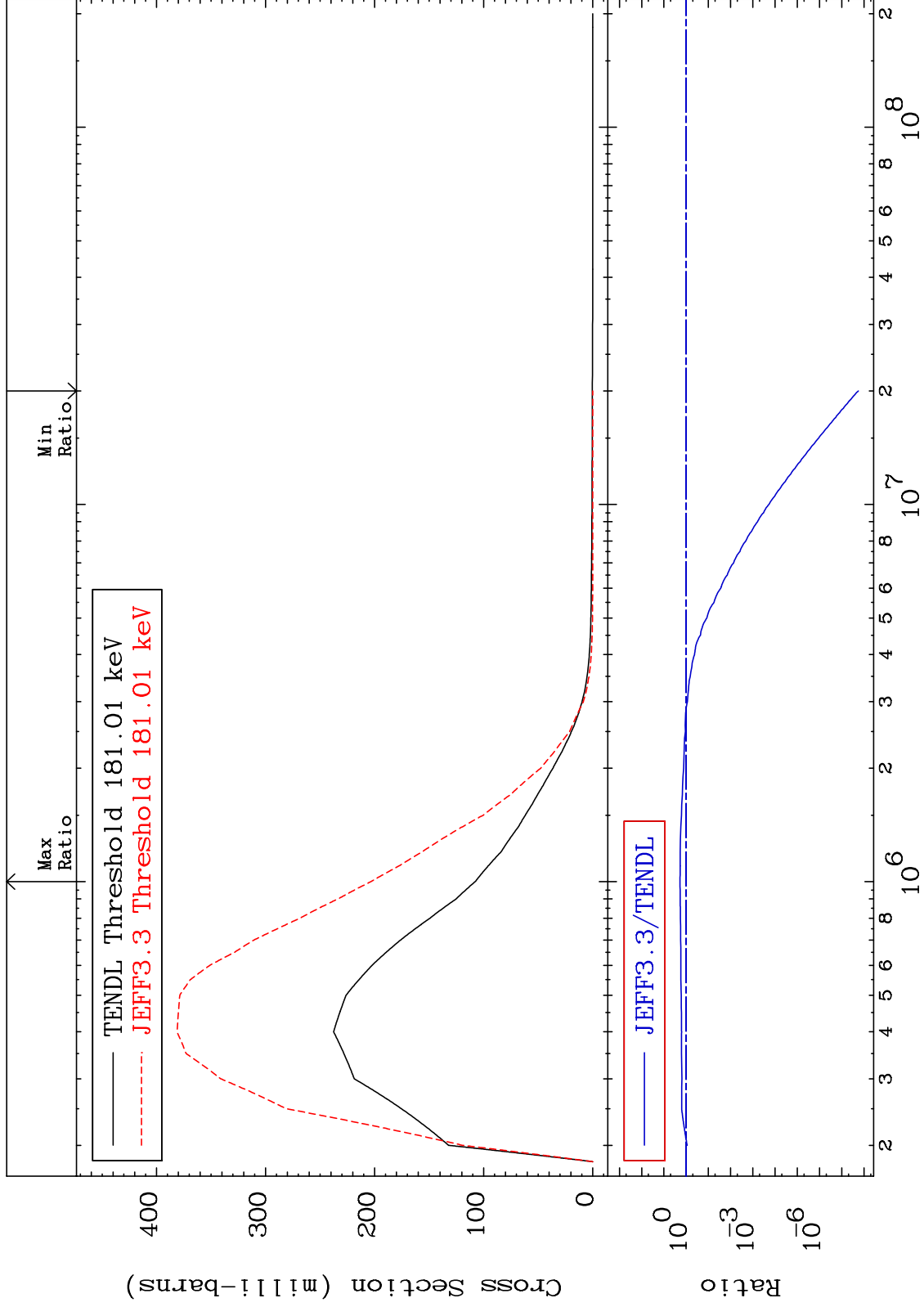
77-Ir-193  
56.93 To 7186. %



MAT 7731

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

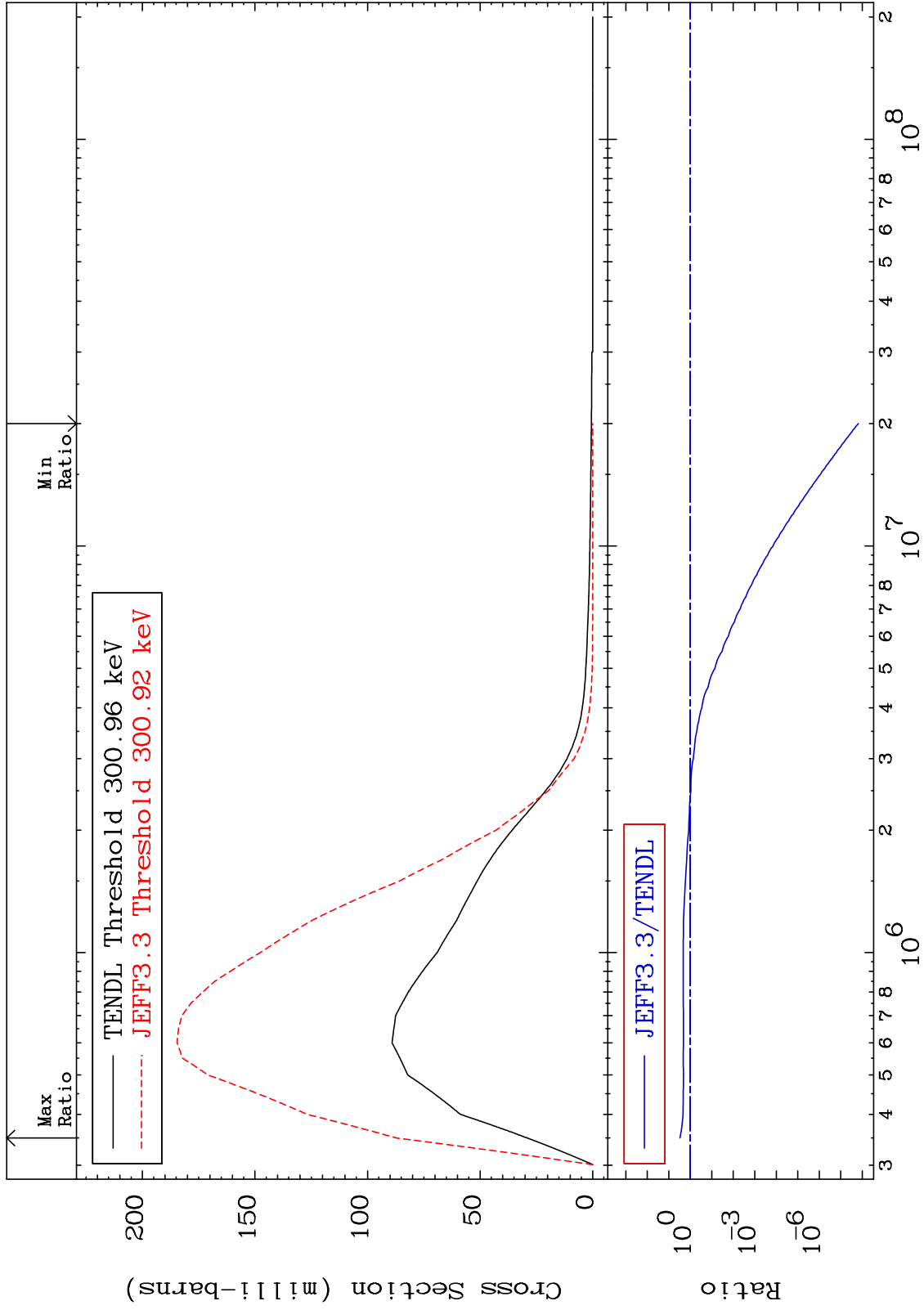
<sup>77</sup>Ir-193  
-100.0 To 88.69 %



MAT 7731

MT= 55 (n,n') Level  
Cross Section

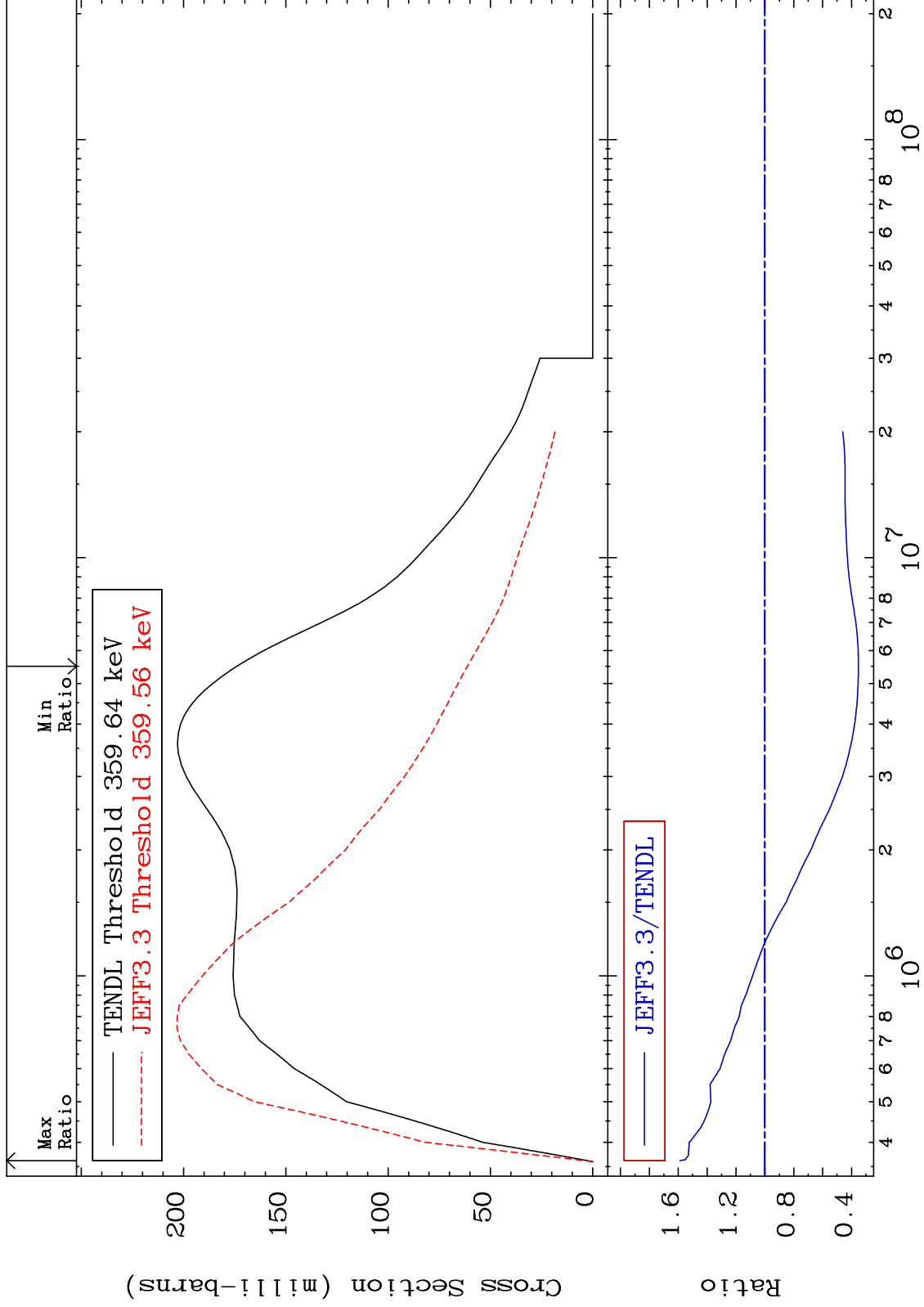
77-Ir-193  
-100.0 To 199.9 %



MAT 7731

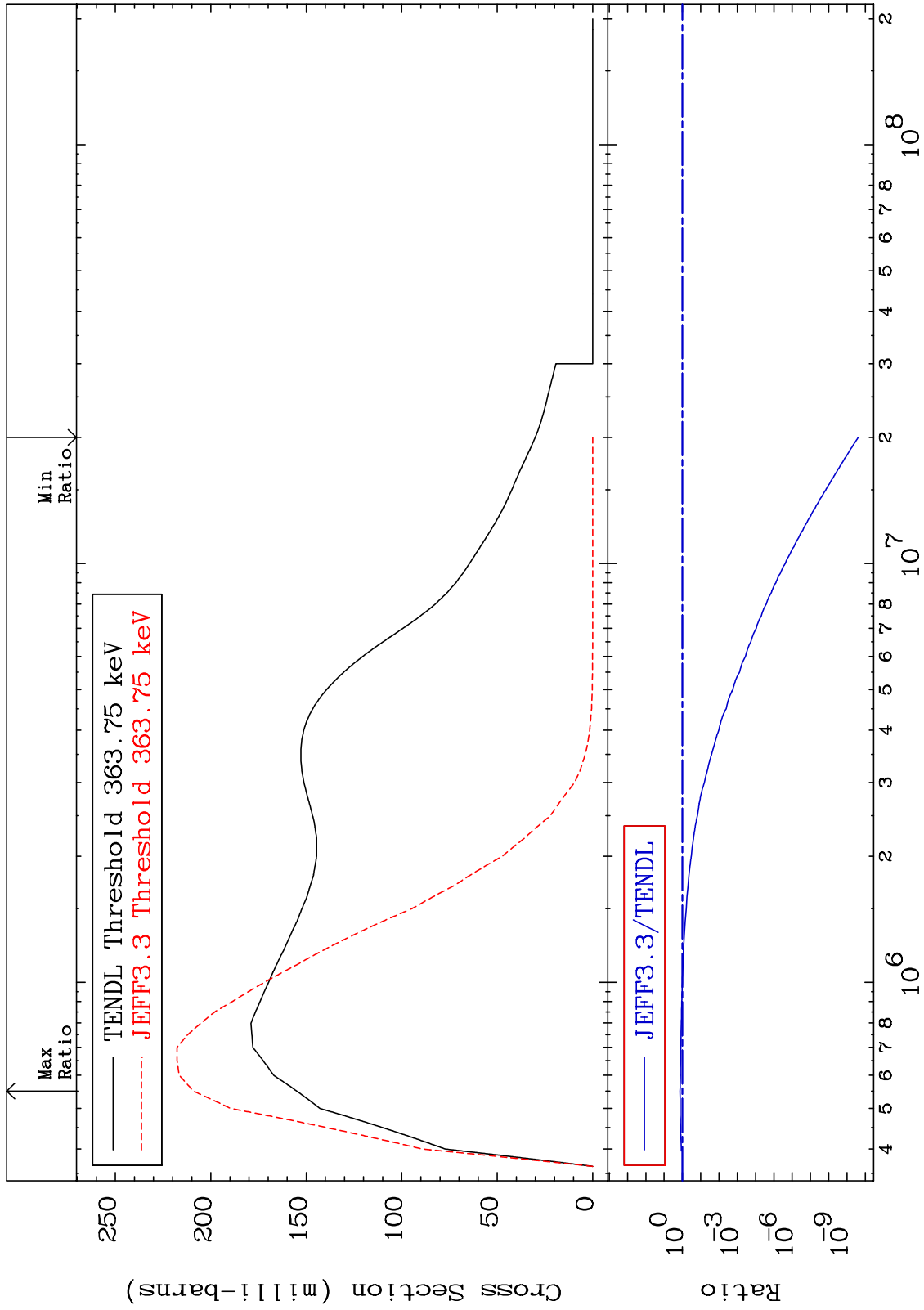
MT= 56 (n,n') Level  
Cross Section

77-Ir-193  
-64.78 To 58.78 %

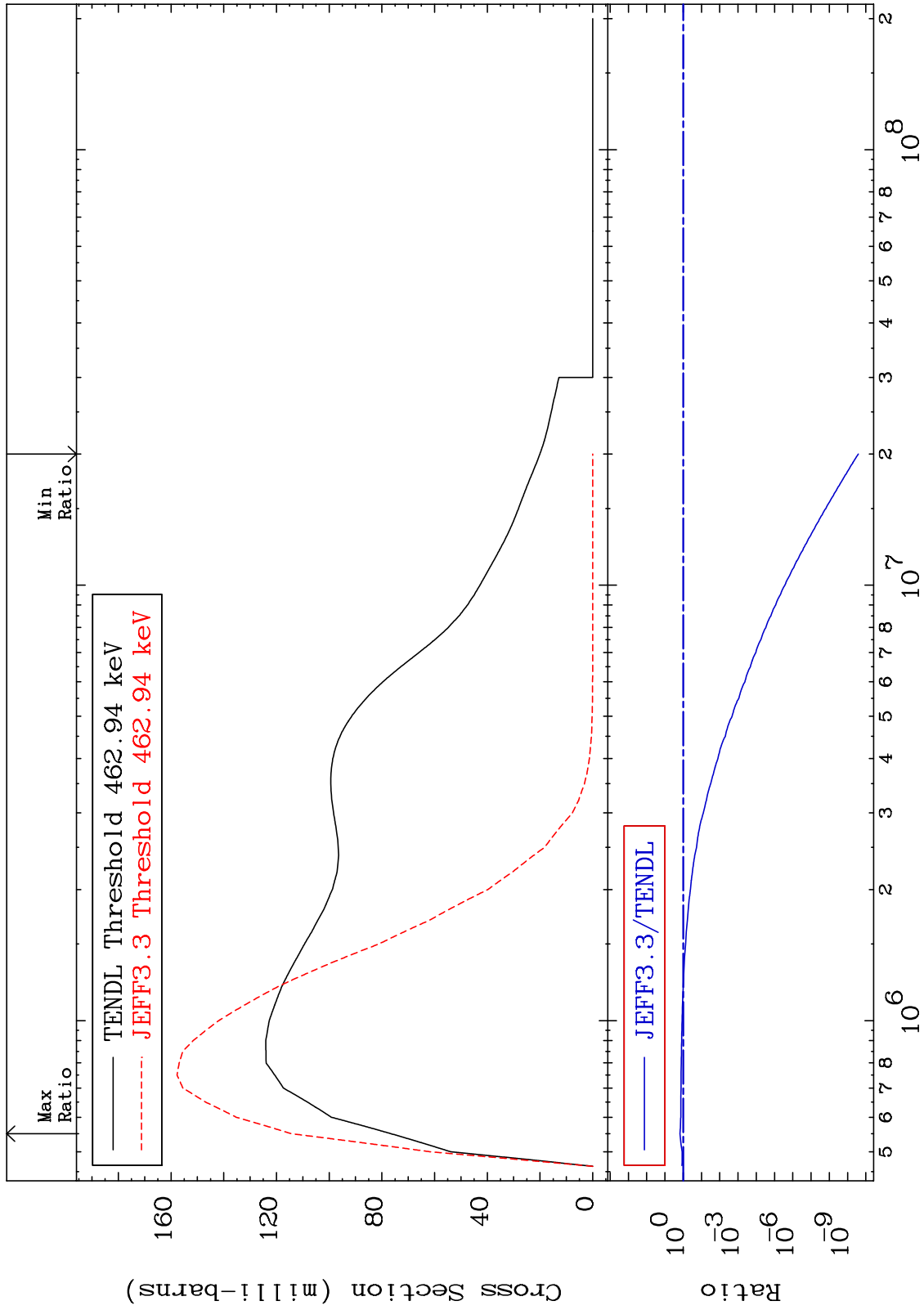




MAT 7731      MT= 57 (n,n') Level      77-Ir-193  
 Cross Section      -100.0 To 35.00 %



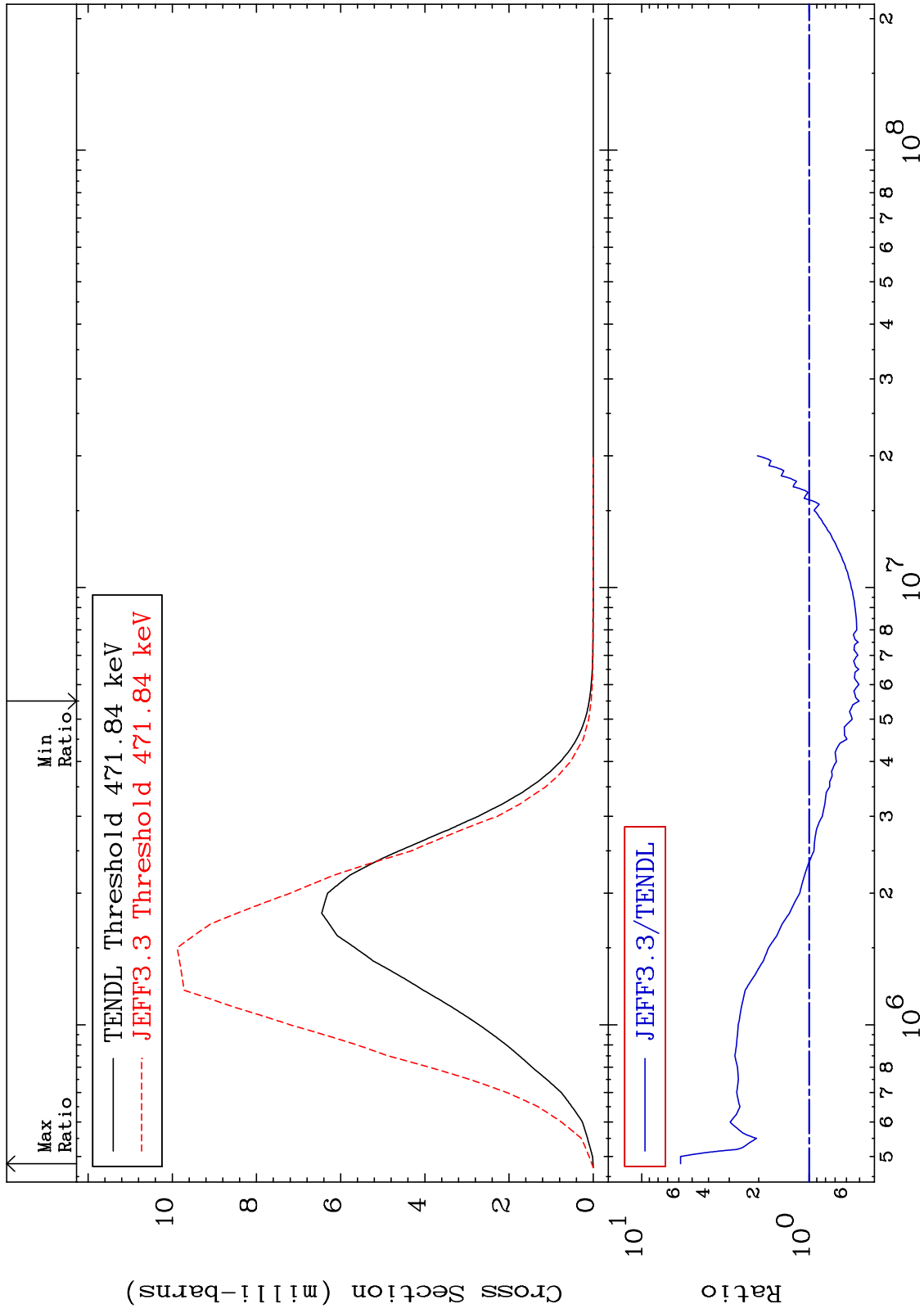
MAT 7731      MT= 58 (n,n') Level      77-Ir-193  
 Cross Section      -100.0 To 49.46 %



MAT 7731

MT= 59 (n, n') Level  
Cross Section

77-Ir-193  
-49.68 To 486.0 %

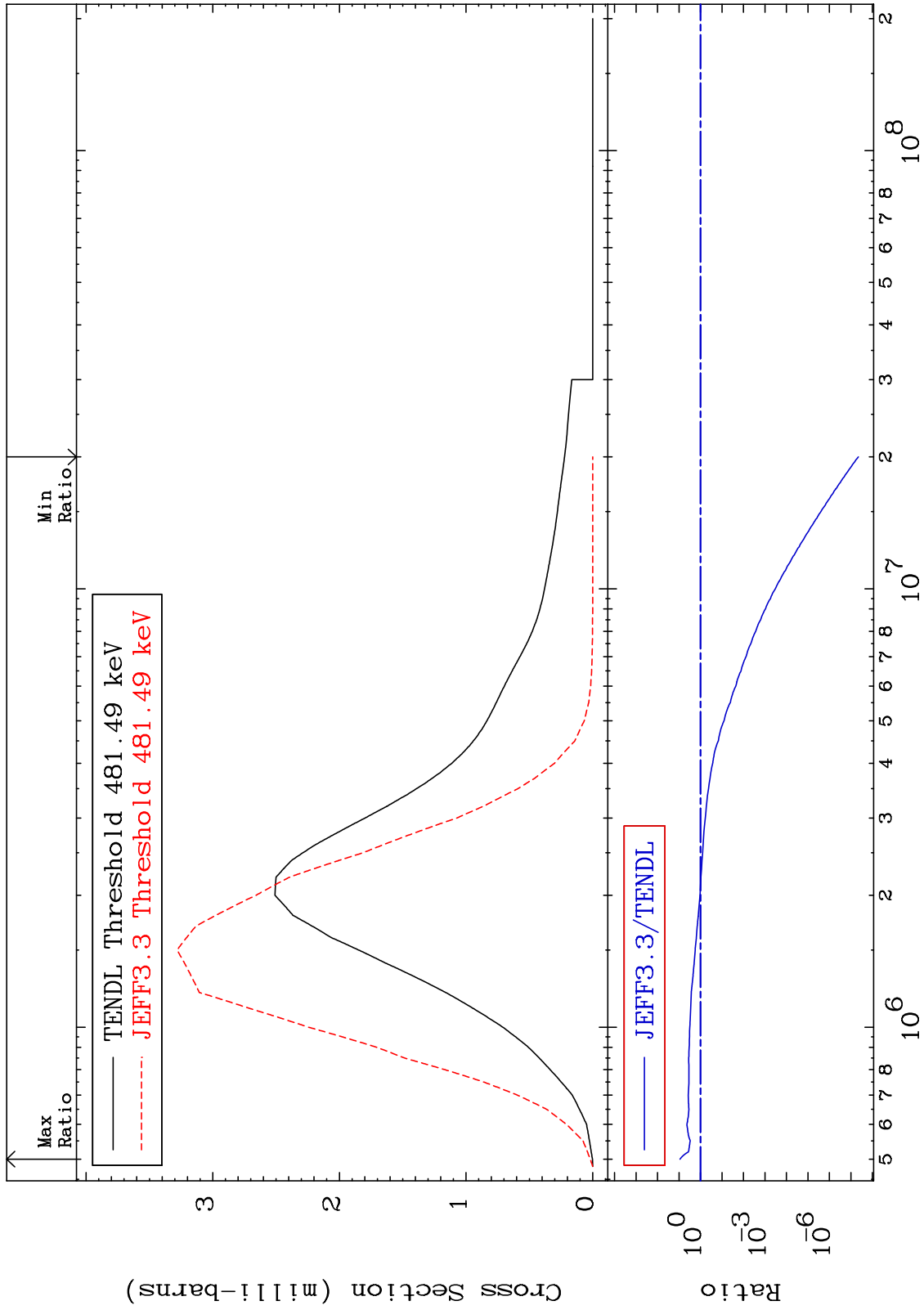


18

77-Ir-193

77-Ir-193

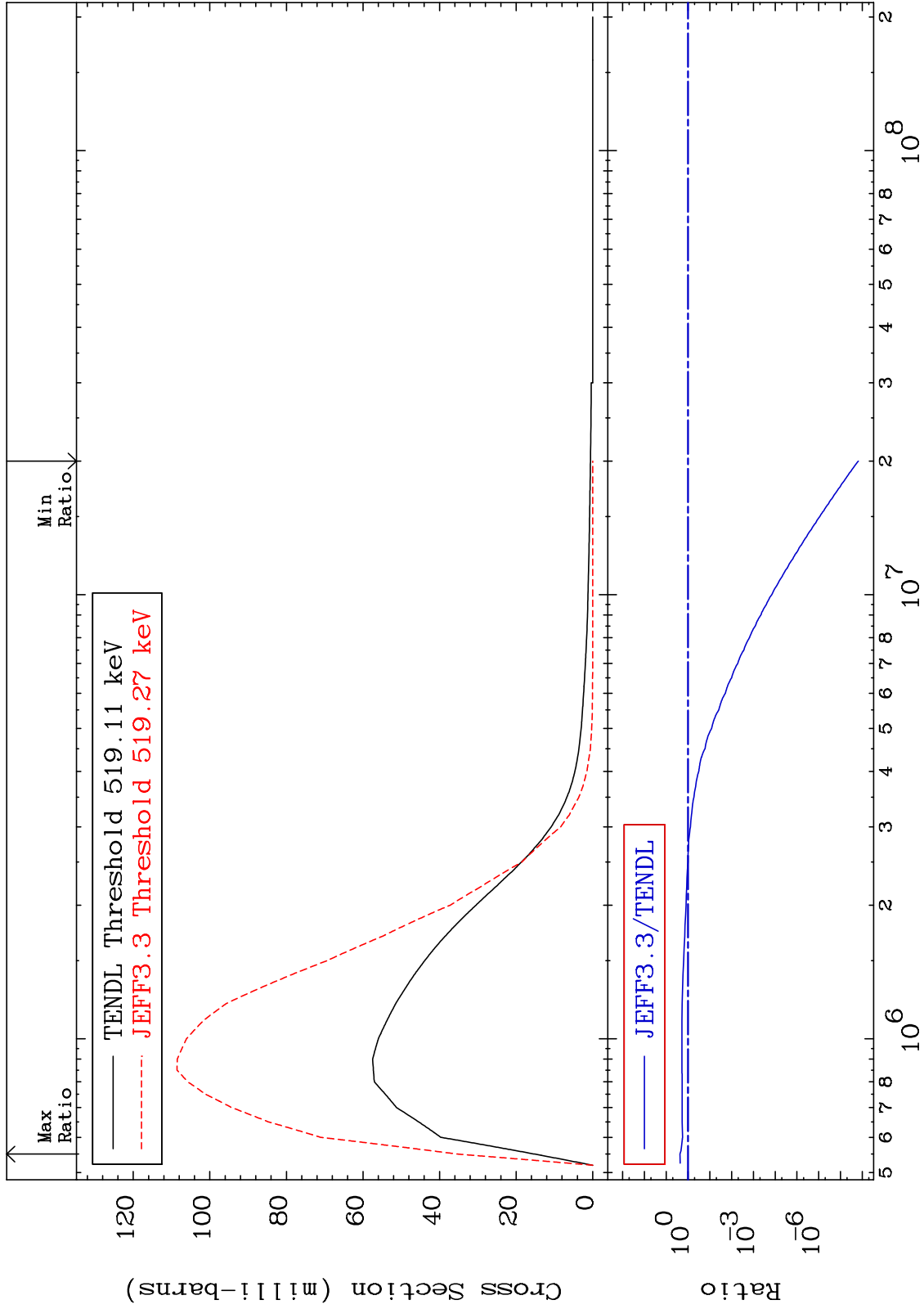
MAT 7731 MT= 60 (n, n') Level Cross Section -100.0 To 796.1 % 77-Ir-193



MAT 7731

MT= 61 (n,n') Level  
Cross Section

77-Ir-193  
-100.0 To 132.6 %



20

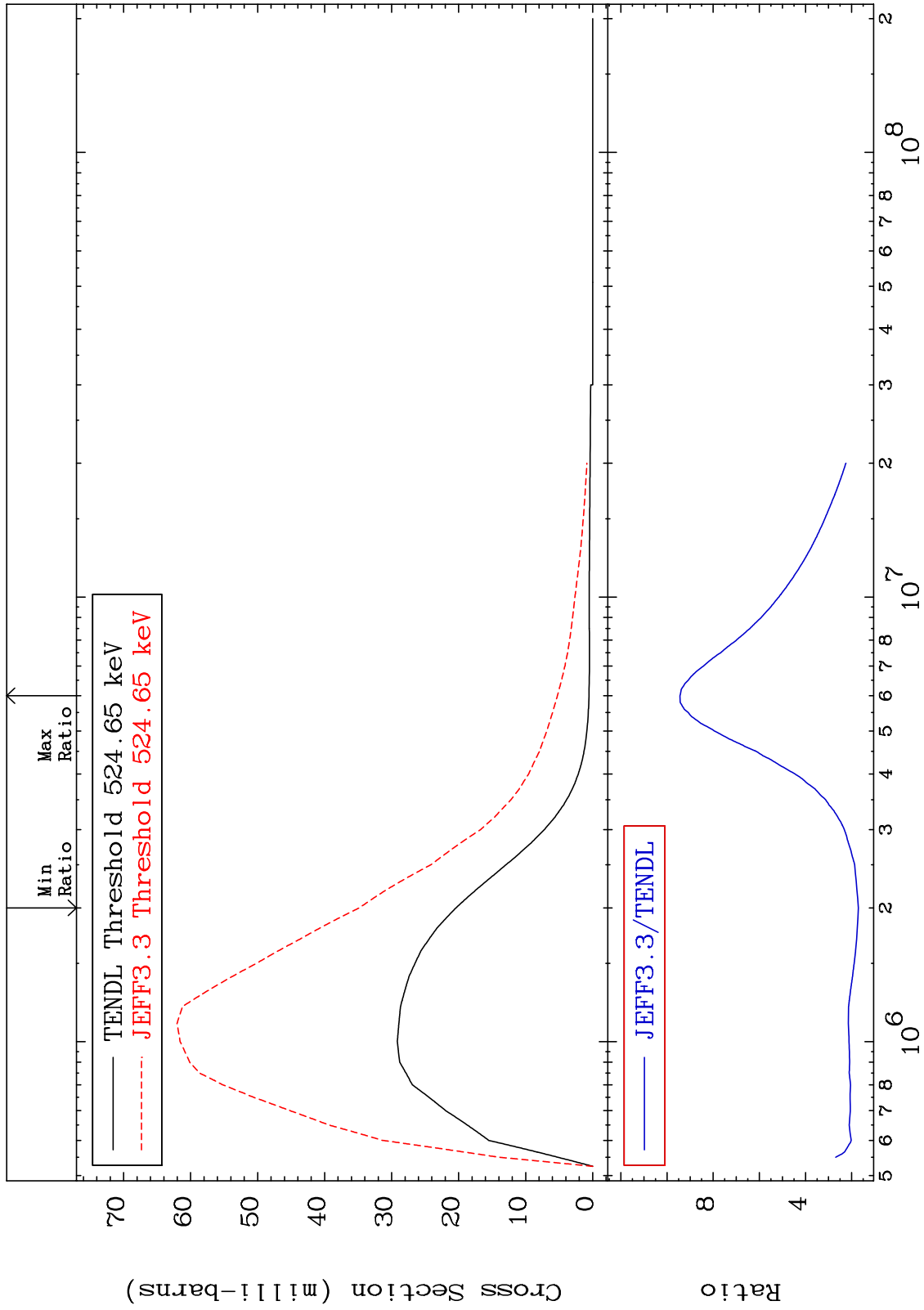
Incident Energy (eV)

77-Ir-193

MAT 7731

MT= 62 (n,n') Level  
Cross Section

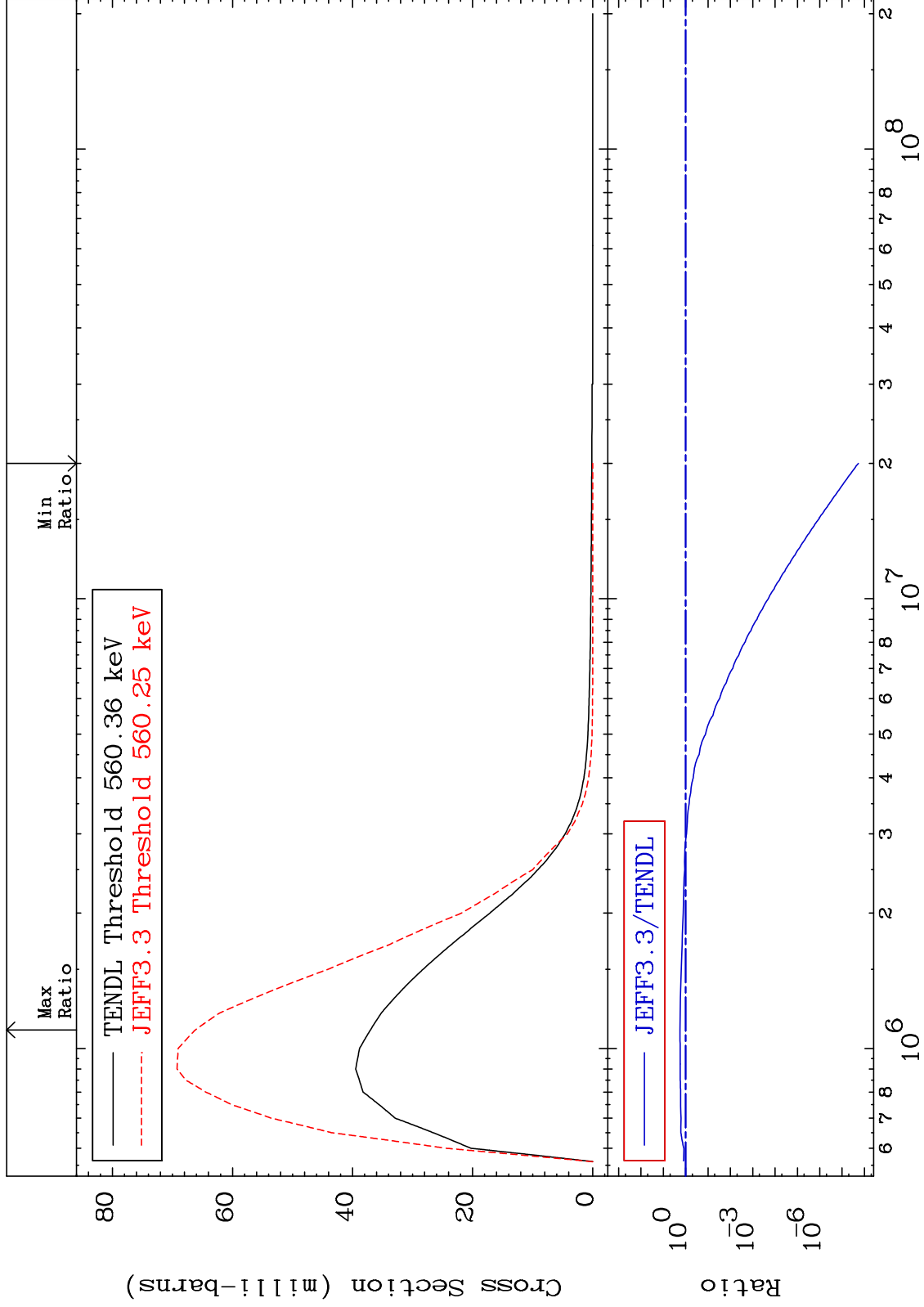
77-Ir-193  
70.76 To 843.7 %



MAT 7731

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

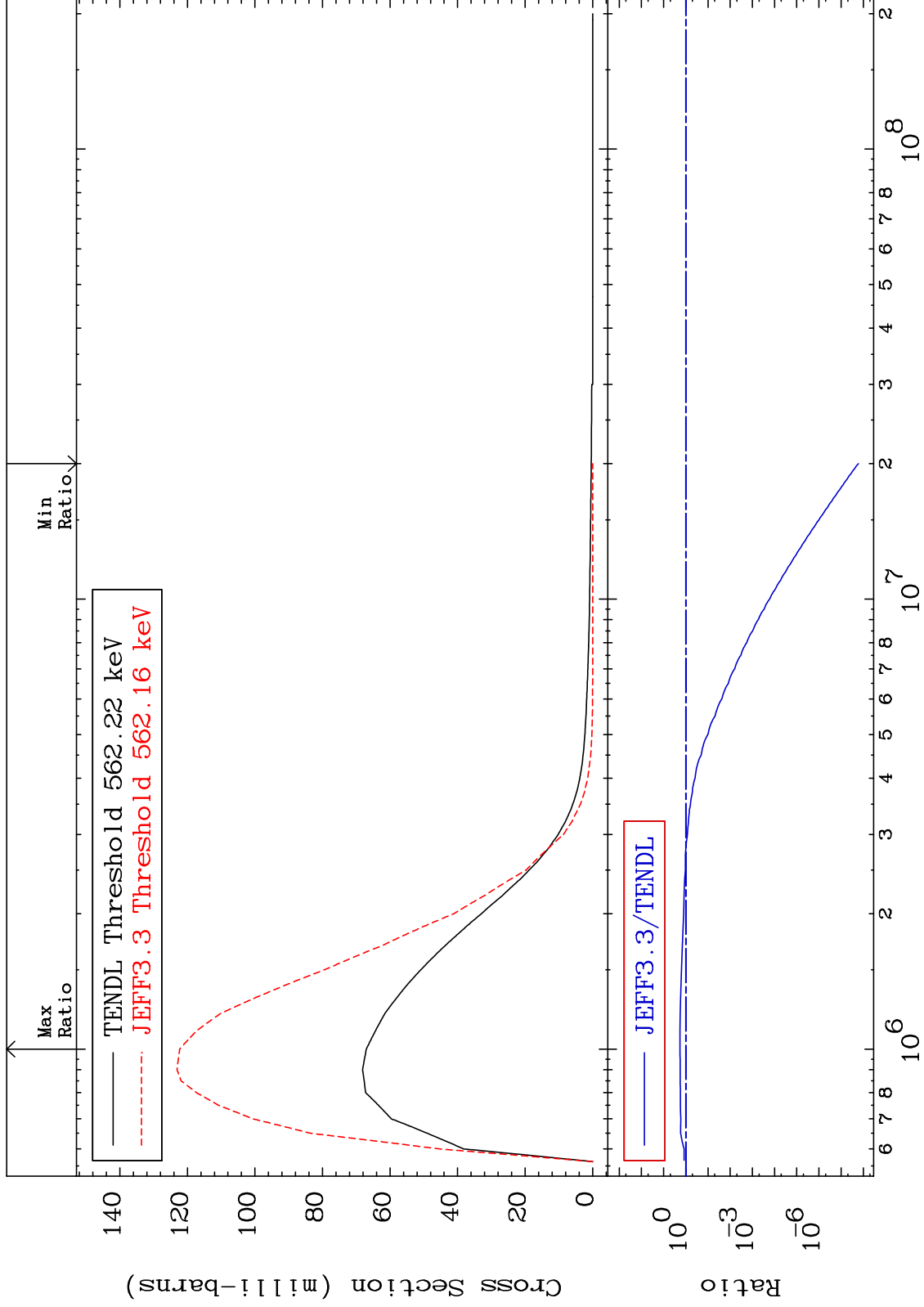
<sup>77</sup>Ir-193  
-100.0 To 78.83 %



MAT 7731

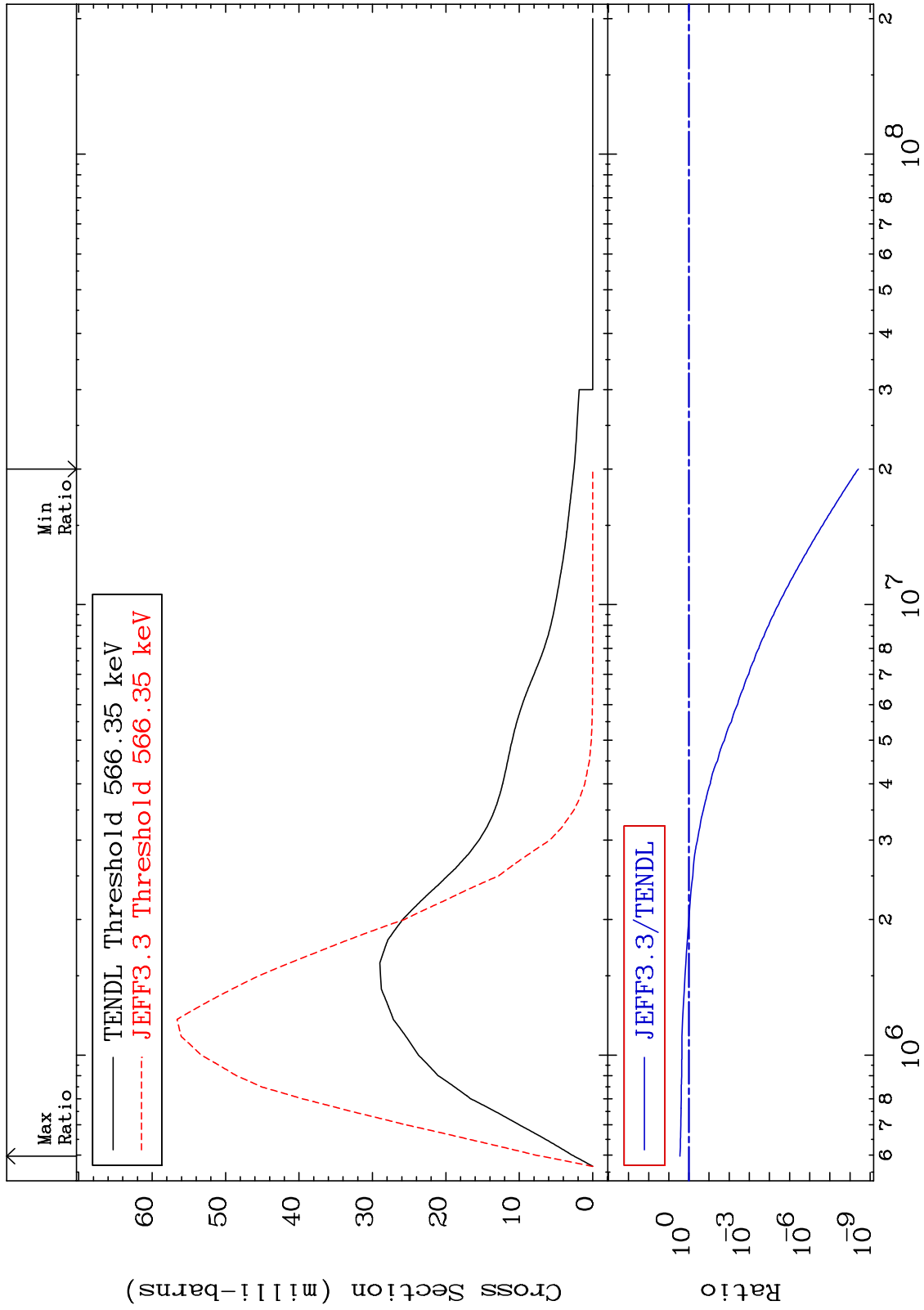
MT= 64 (n,n') Level  
Cross Section

77-Ir-193  
-100.0 To 82.47 %





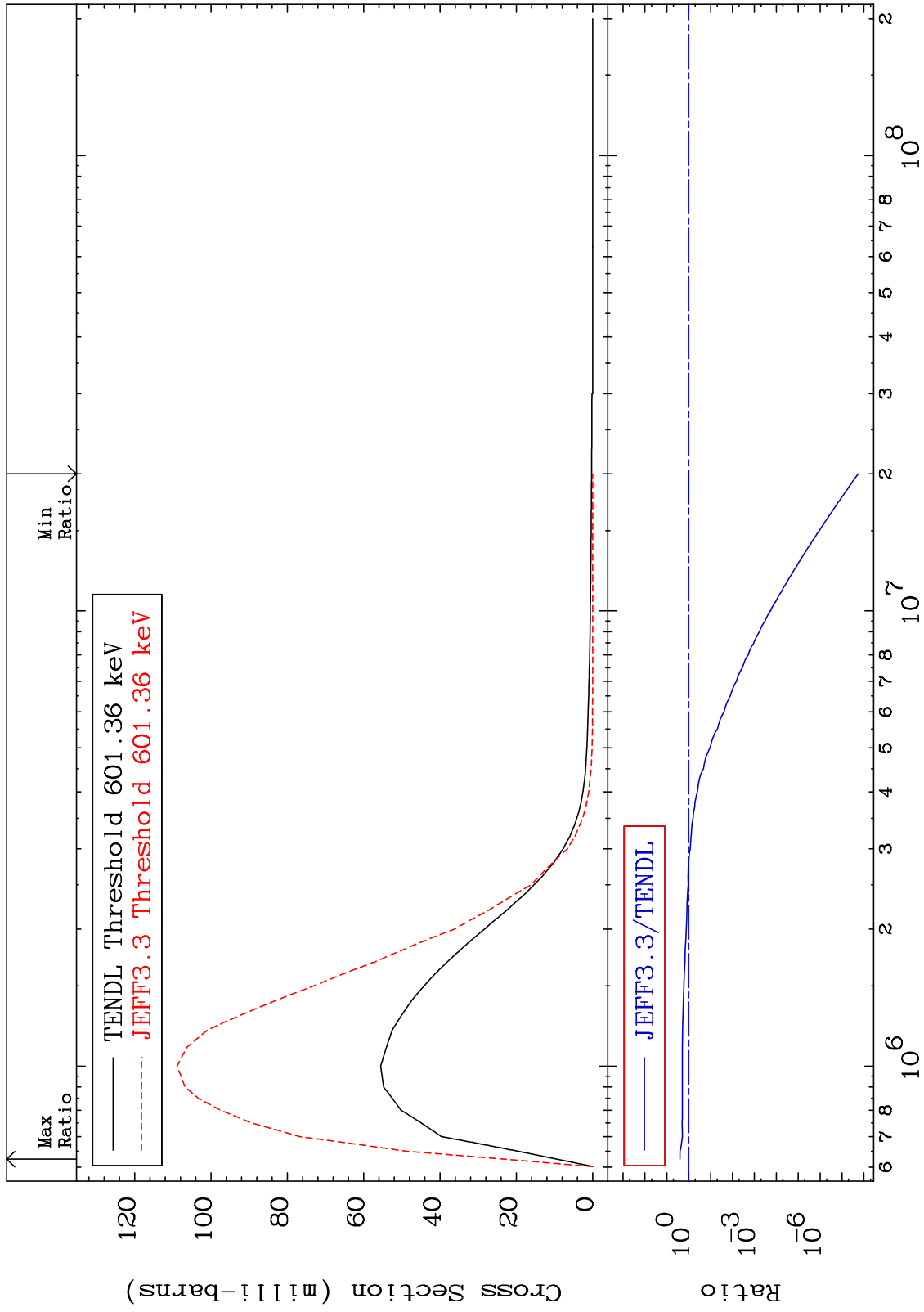
MAT 7731 MT= 65 (n,n') Level Cross Section -100.0 To 176.9 % 77-Ir-193



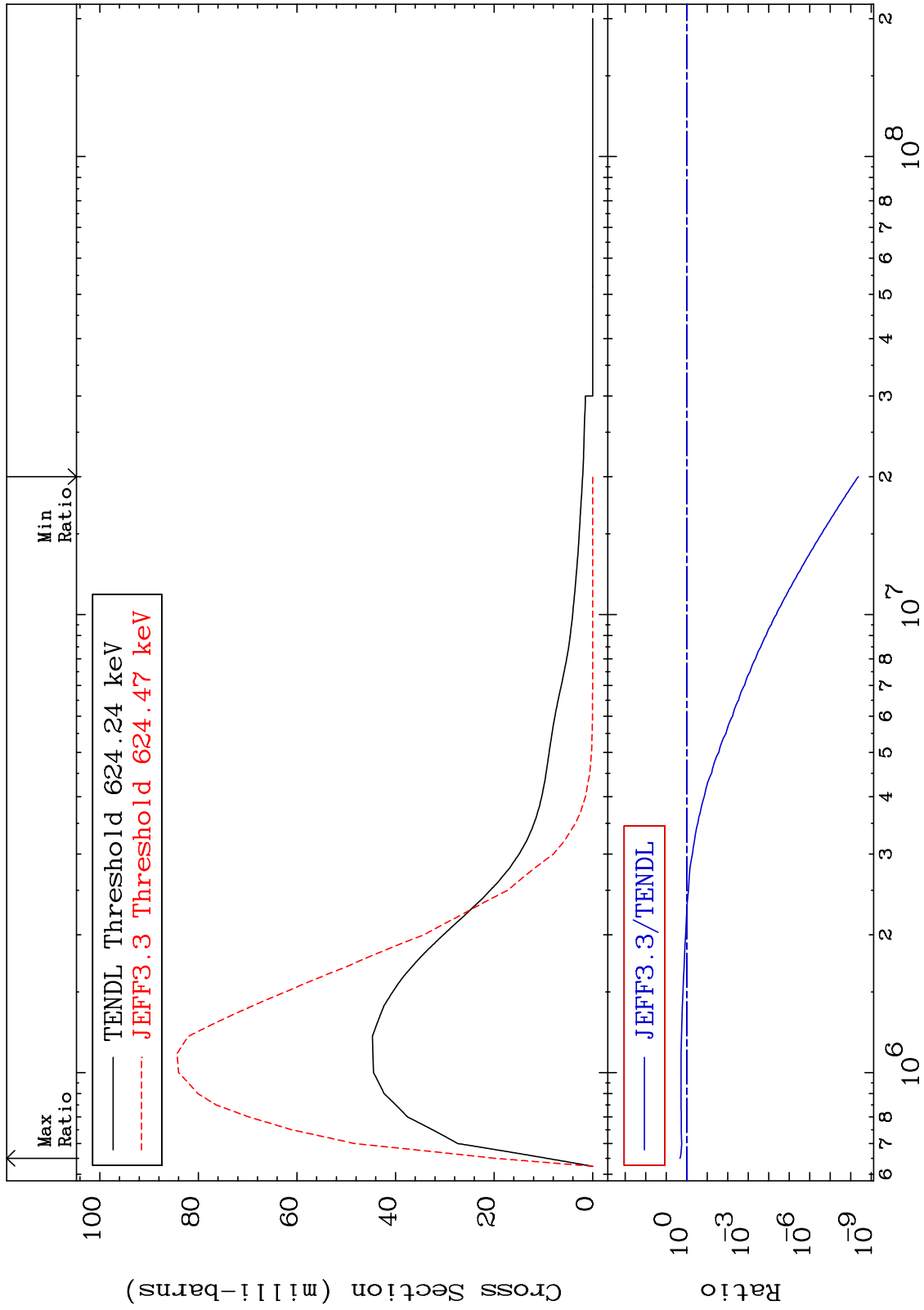
MAT 7731

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

77-Ir-193  
-100.0 To 149.8 %



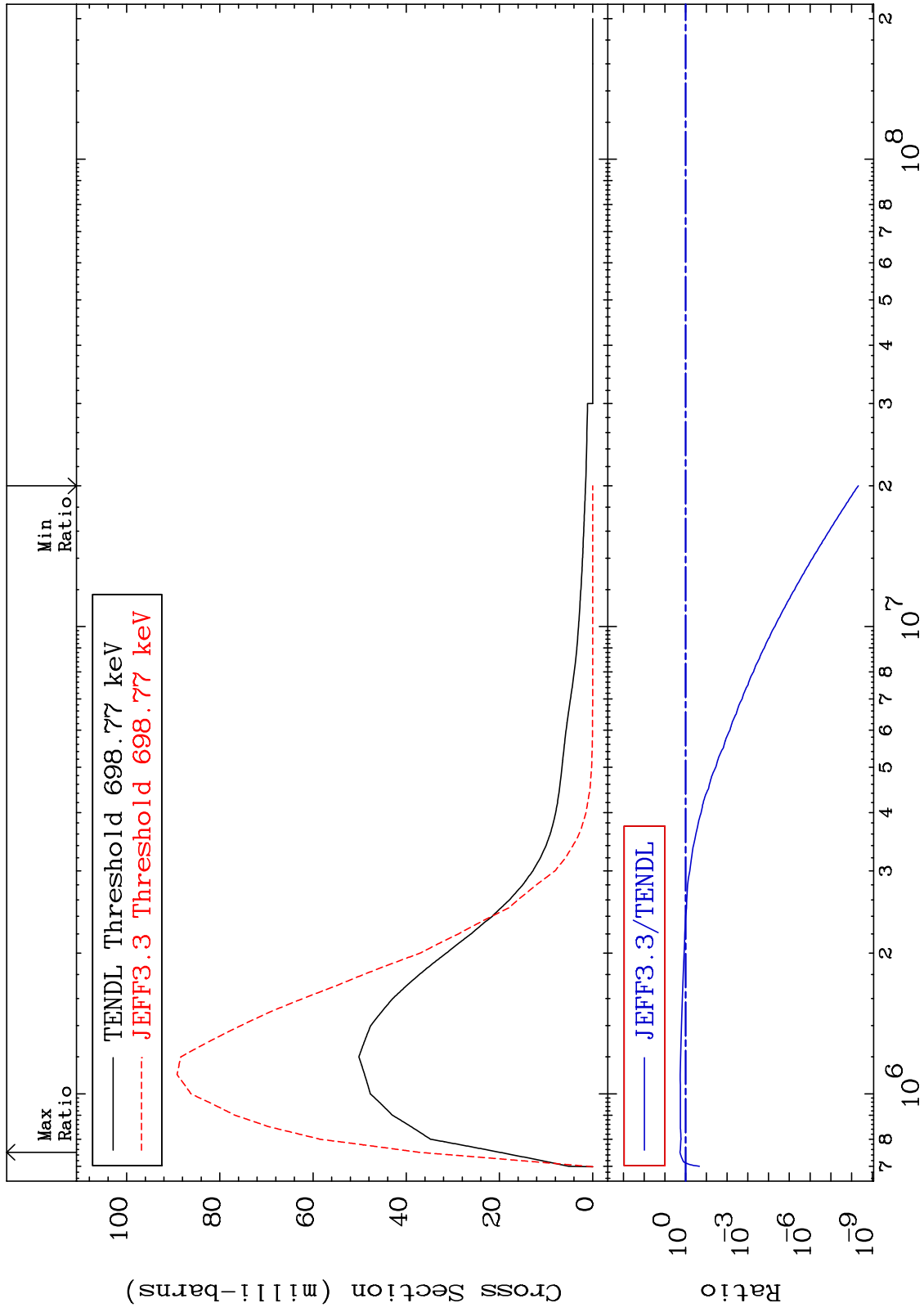
MAT 7731 MT= 67 (n,n') Level Cross Section -100.0 To 114.0 % 77-Ir-193



MAT 7731

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

77-Ir-193  
-100.0 To 86.78 %



27

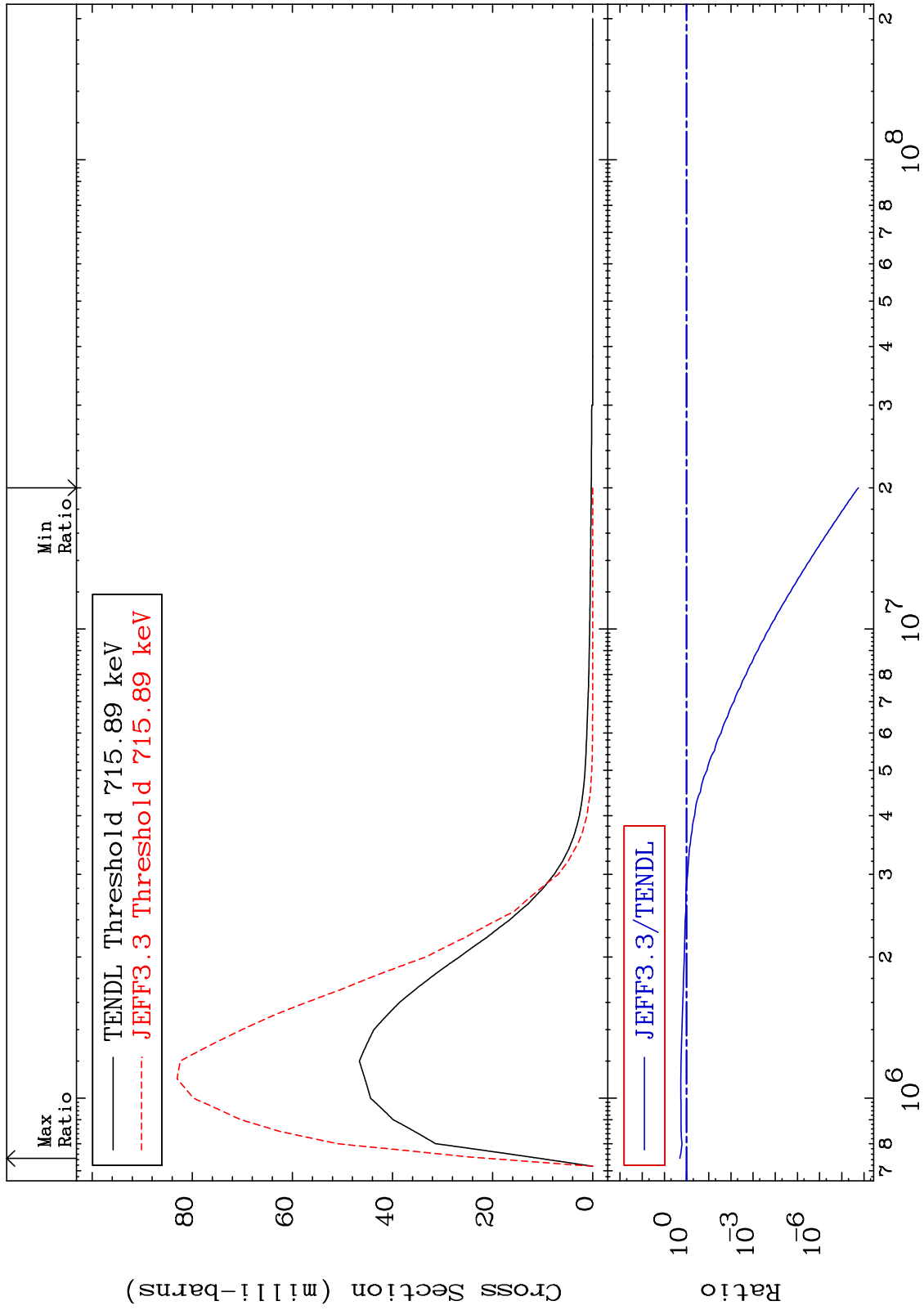
Incident Energy (eV)

77-Ir-193

MAT 7731

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

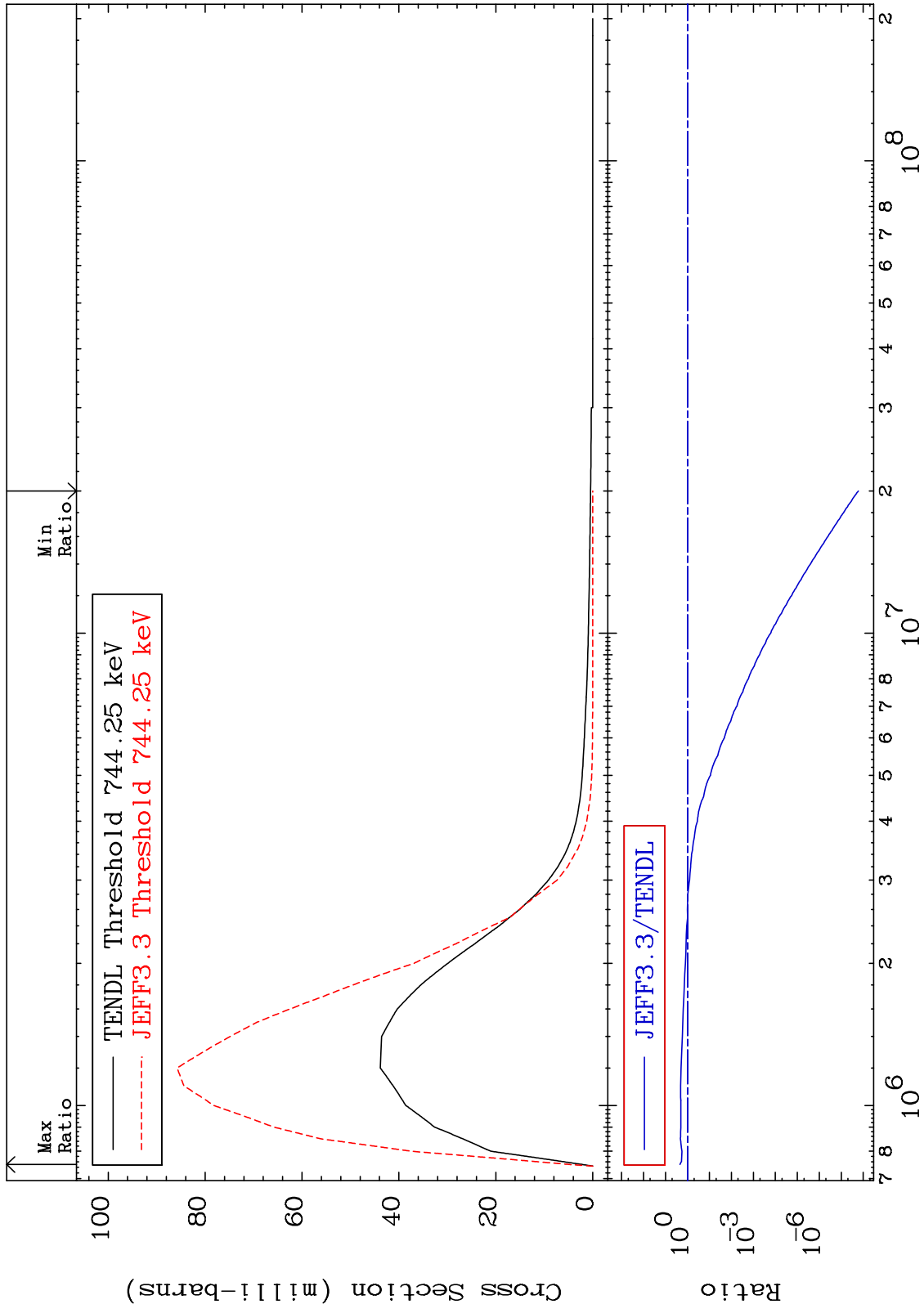
77-Ir-193  
-100.0 To 97.22 %



MAT 7731

MT= 70 (n,n') Level  
Cross Section

77-Ir-193  
-100.0 To 118.9 %



29

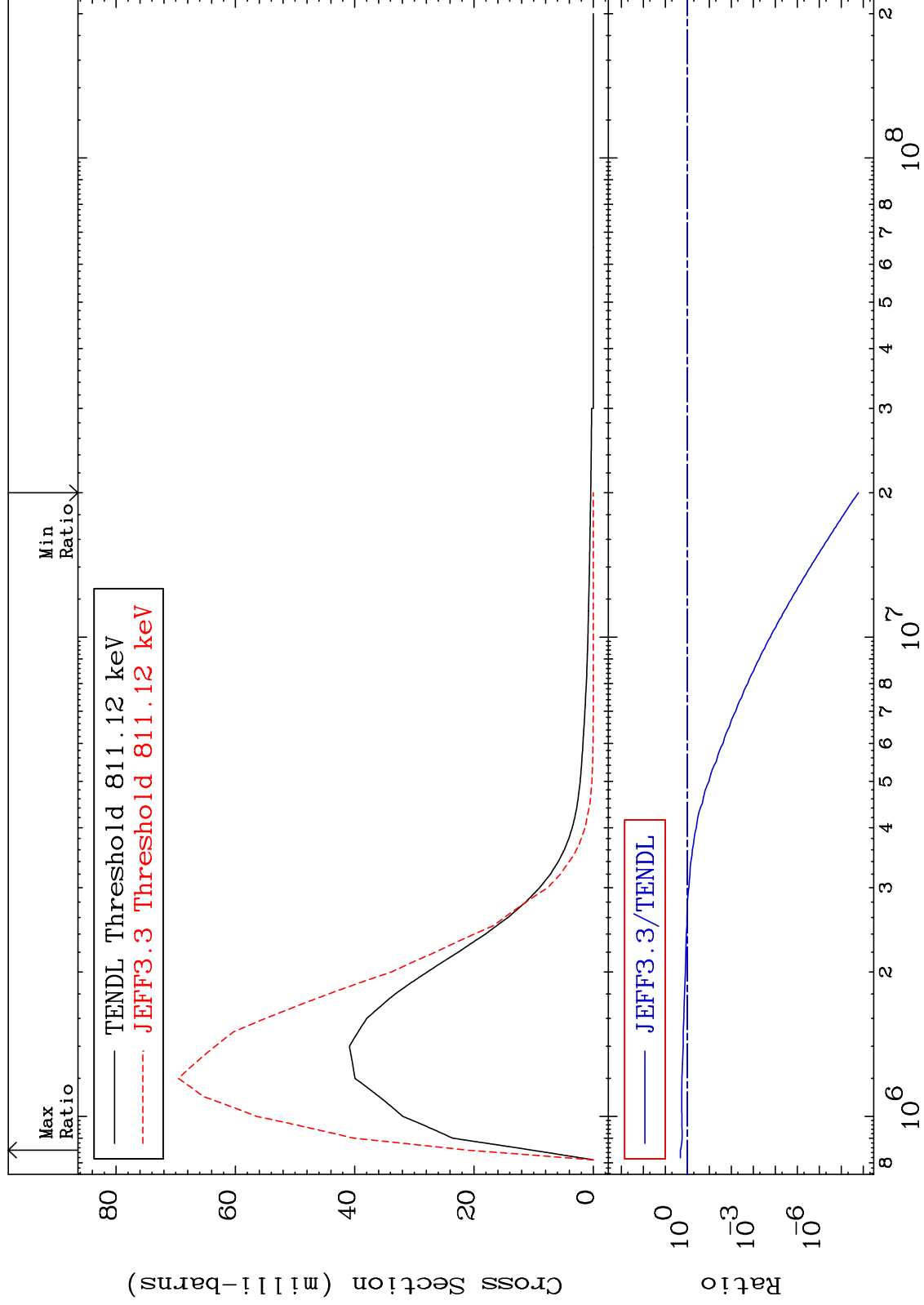
Incident Energy (eV)

77-Ir-193

MAT 7731

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

77-Ir-193  
-100.0 To 104.9 %



30

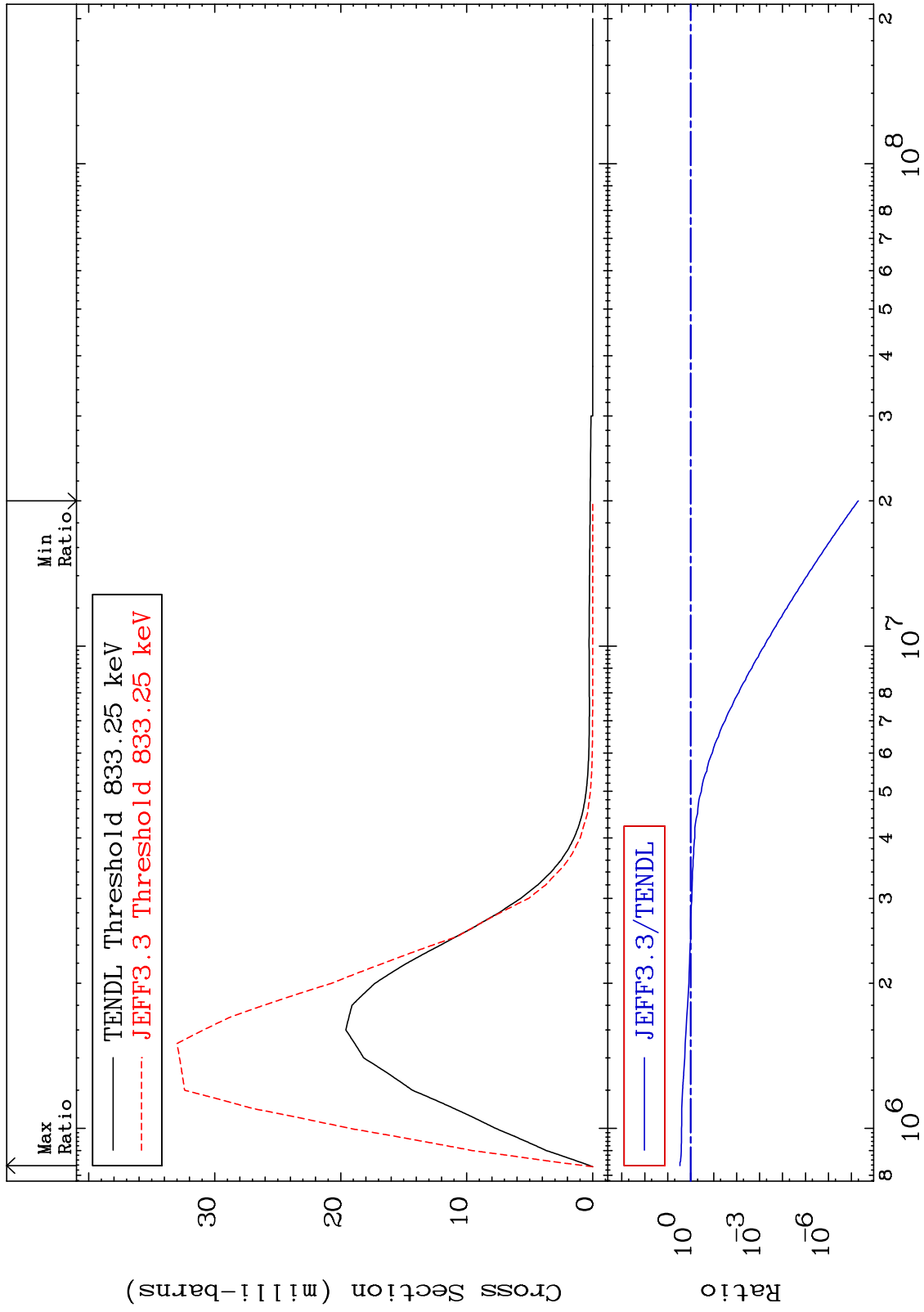
Incident Energy (eV)

77-Ir-193

MAT 7731

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

<sup>77</sup>Ir-193  
-100.0 To 191.8 %



31

Incident Energy (eV)

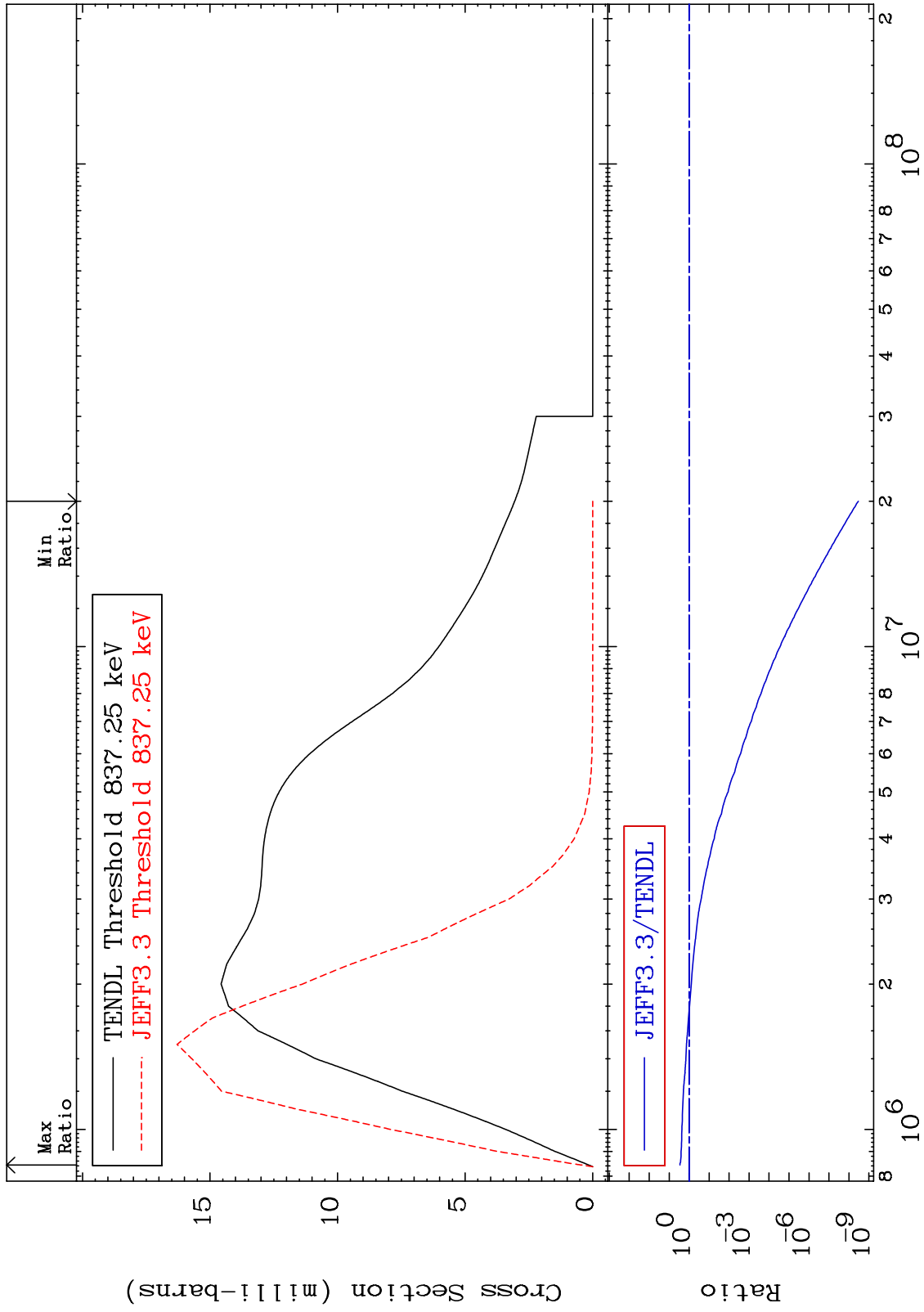
<sup>77</sup>Ir-193



MAT 7731

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

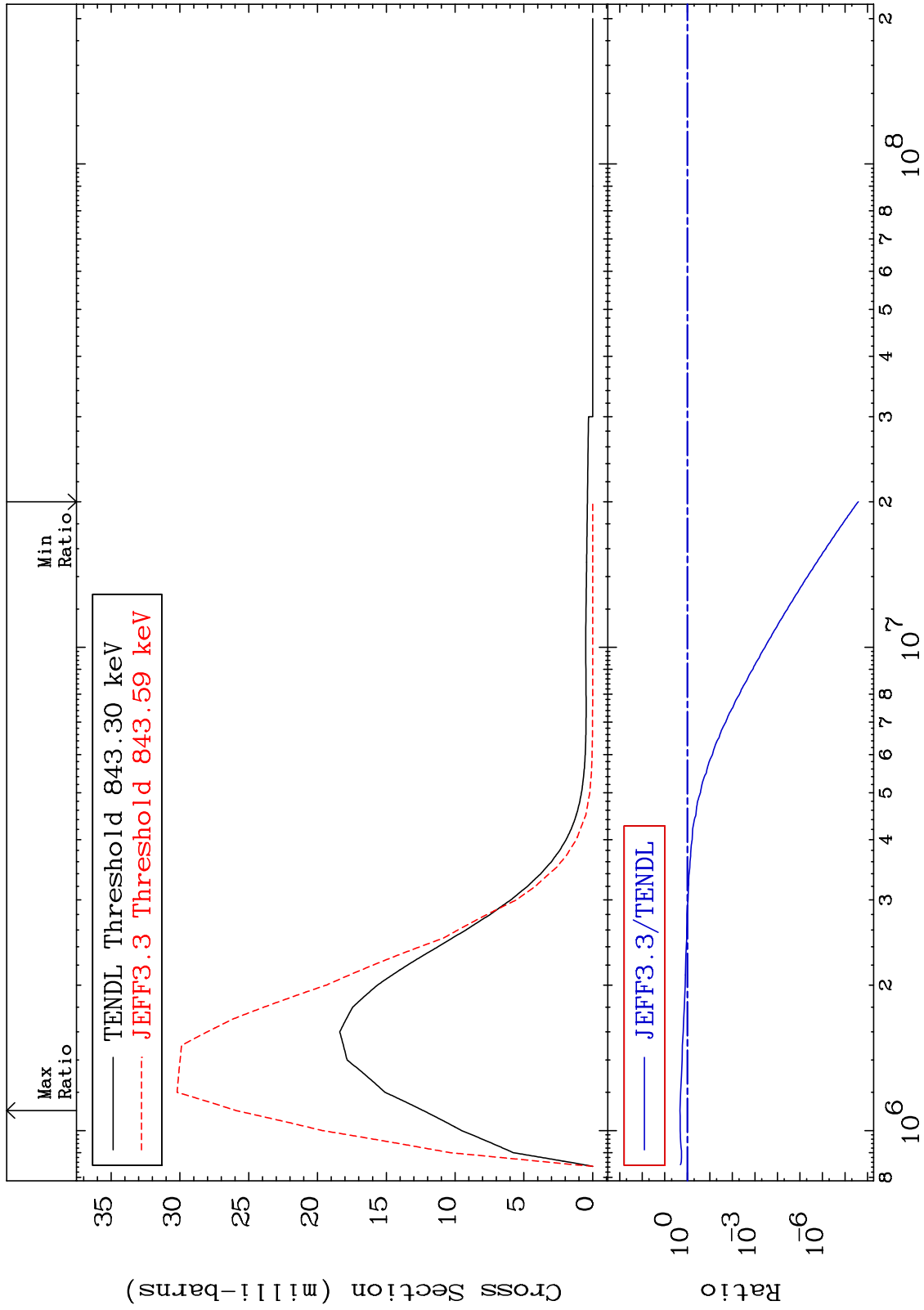
77-Ir-193  
-100.0 To 186.6 %



32

77-Ir-193

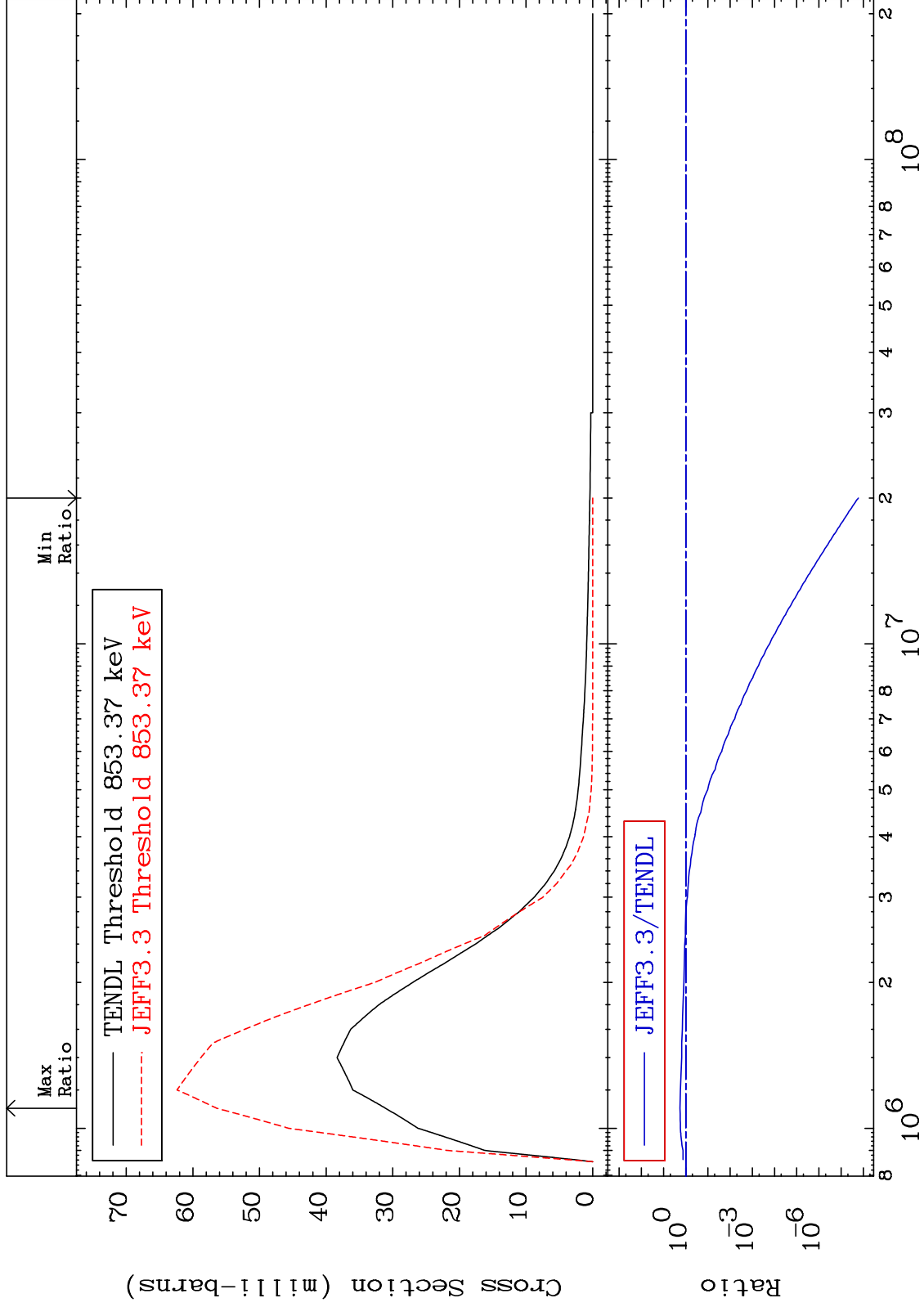
MAT 7731 MT= 74 (n,n') Level Cross Section -100.0 To 110.5 % 77-Ir-193



MAT 7731

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

77-Ir-193  
-100.0 To 81.50 %



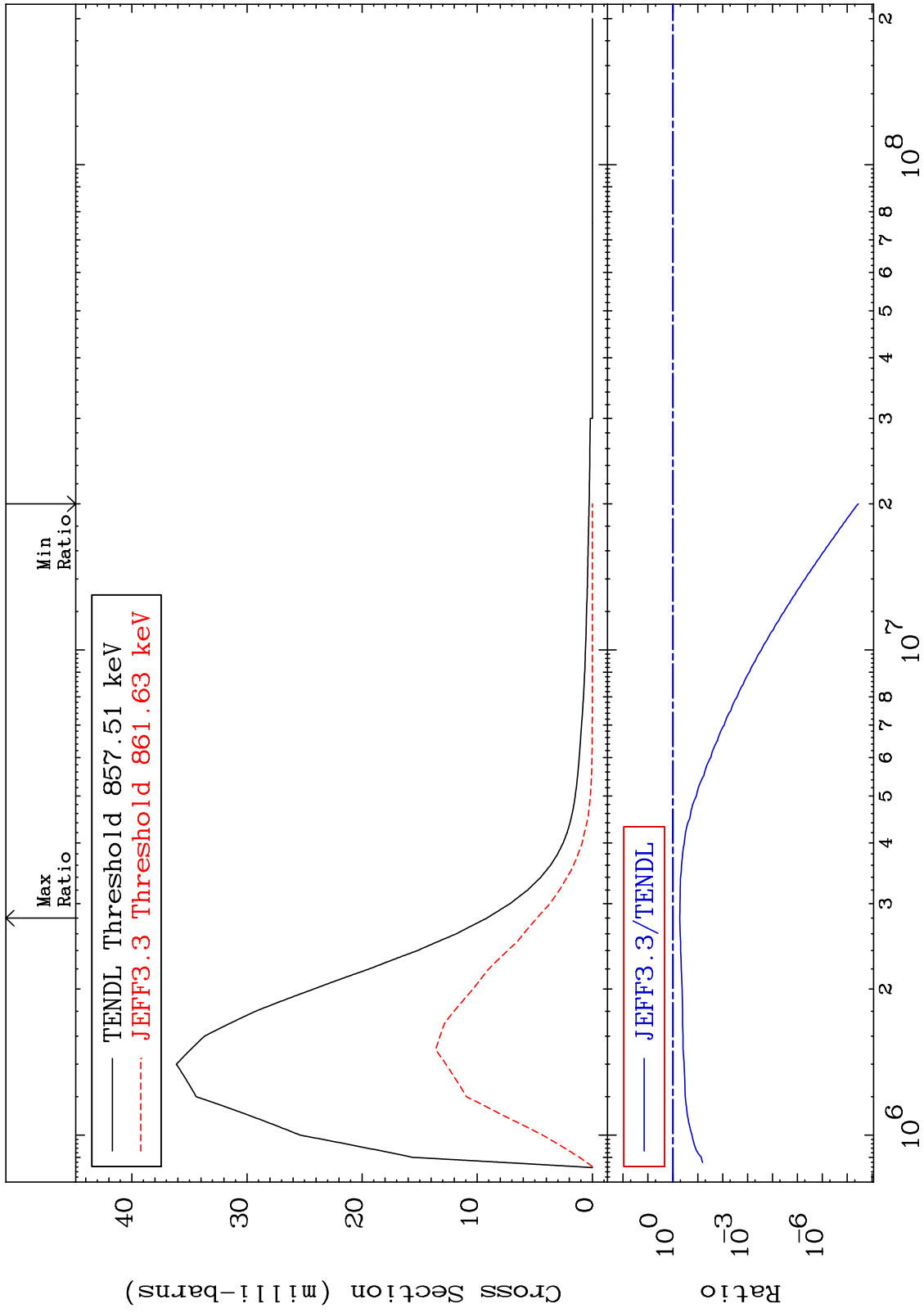
34

77-Ir-193

MAT 7731

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

77-Ir-193  
-100.0 To -47.31%



35

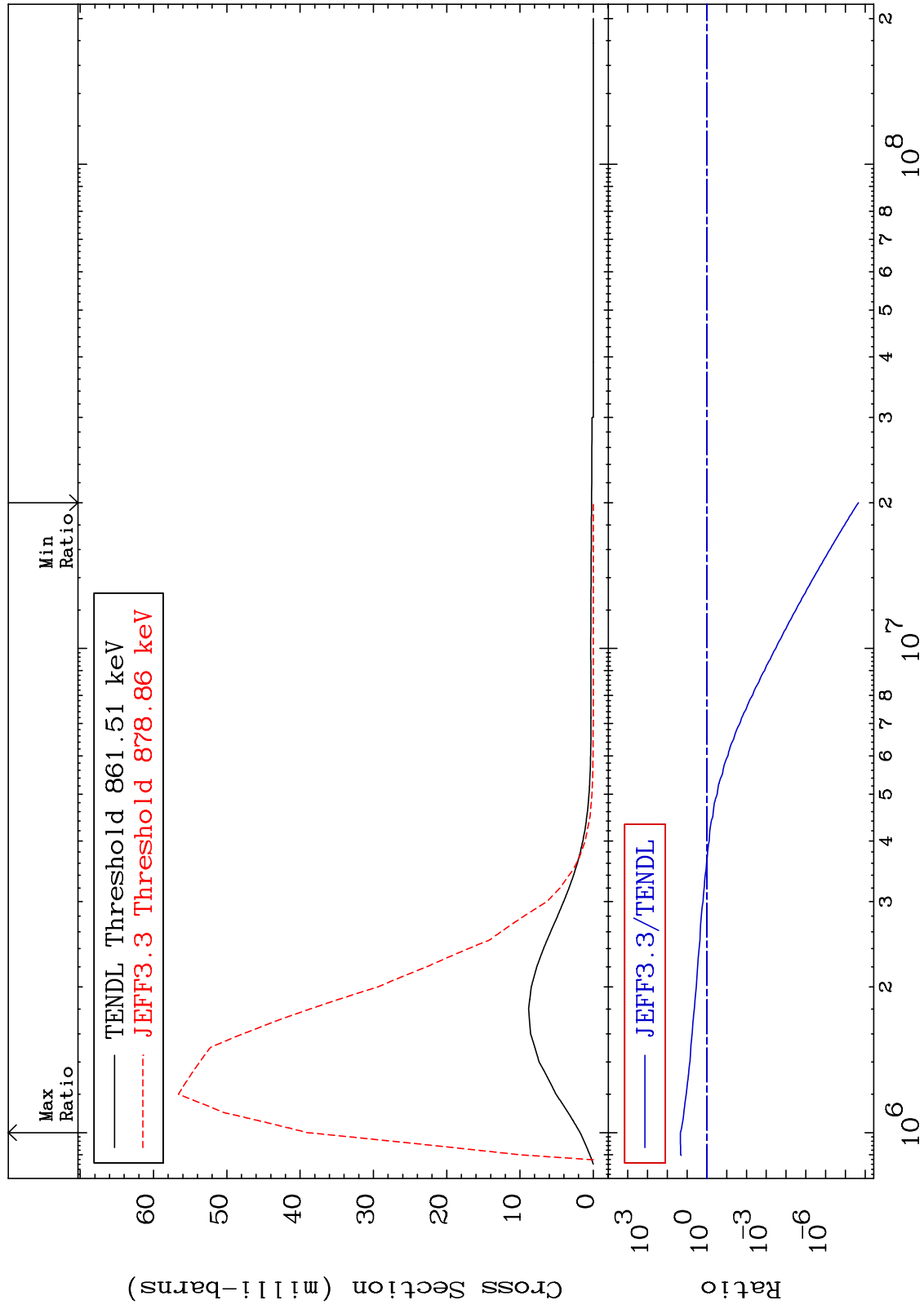
77-Ir-193

77-Ir-193

MAT 7731

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

77-Ir-193  
-100.0 To 2074. %



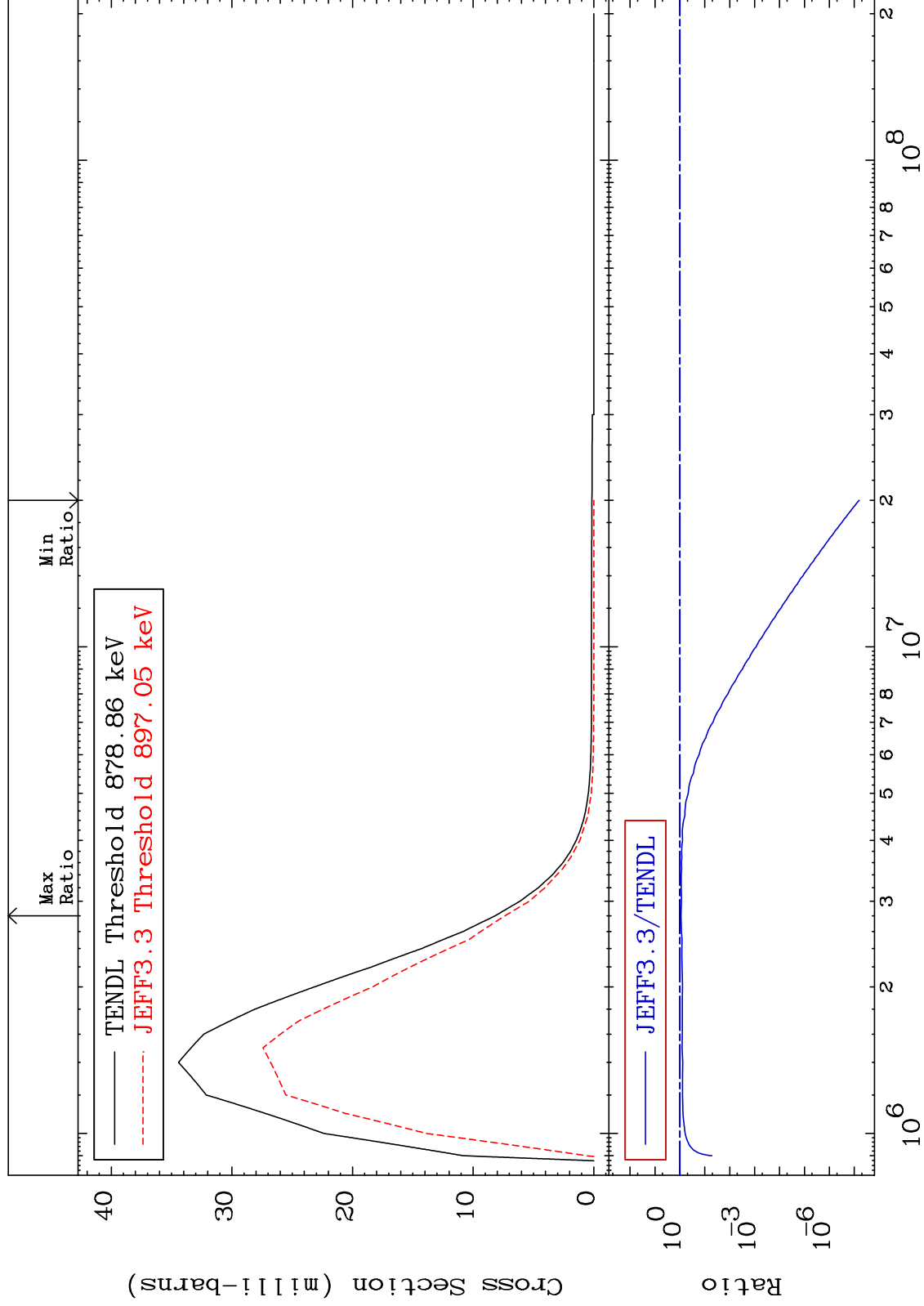
36

77-Ir-193

MAT 7731

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

<sup>77</sup>Ir-193  
-100.0 To -9.916%



37

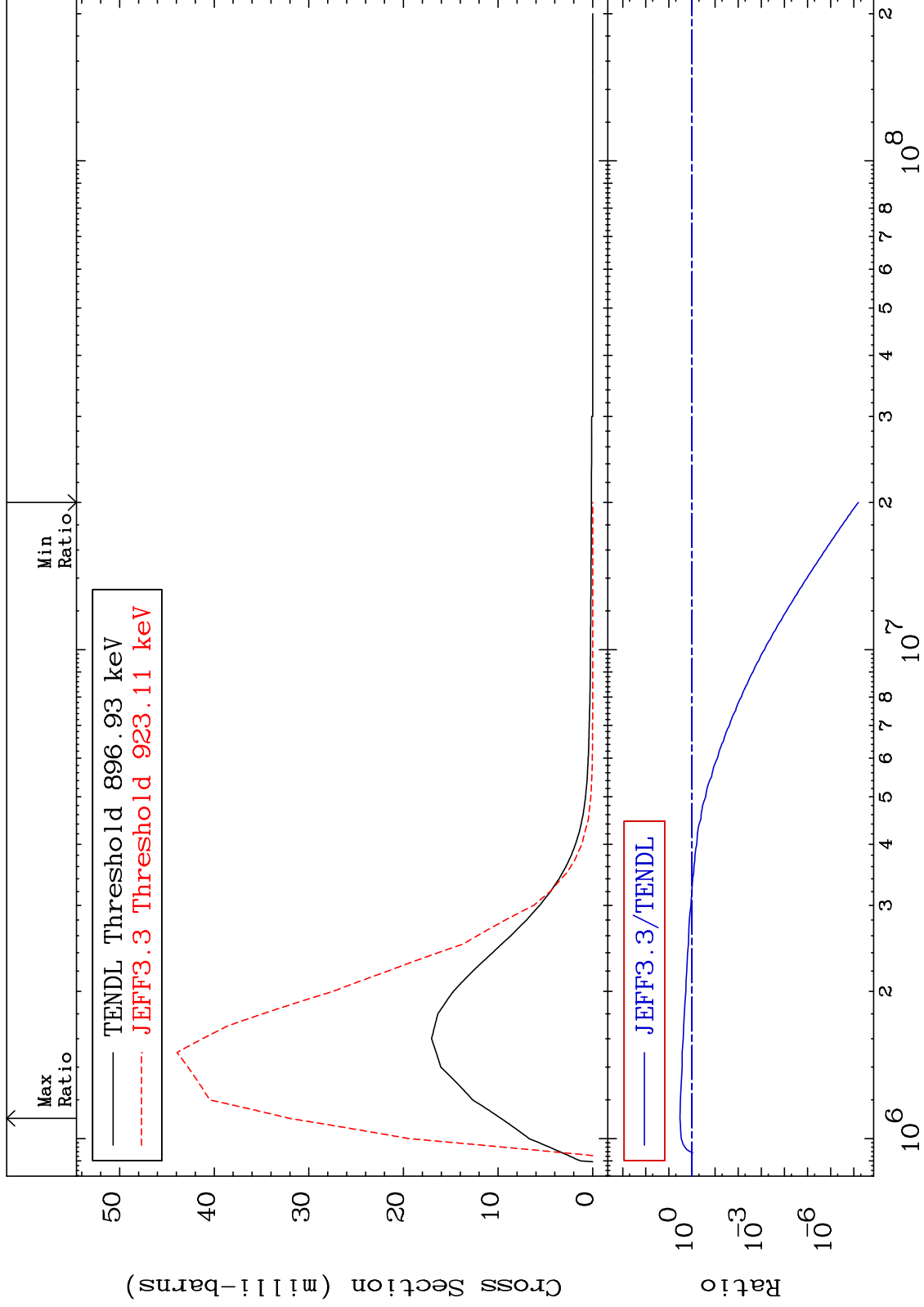
Incident Energy (eV)

<sup>77</sup>Ir-193

MAT 7731

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

77-Ir-193  
-100.0 To 230.5 %



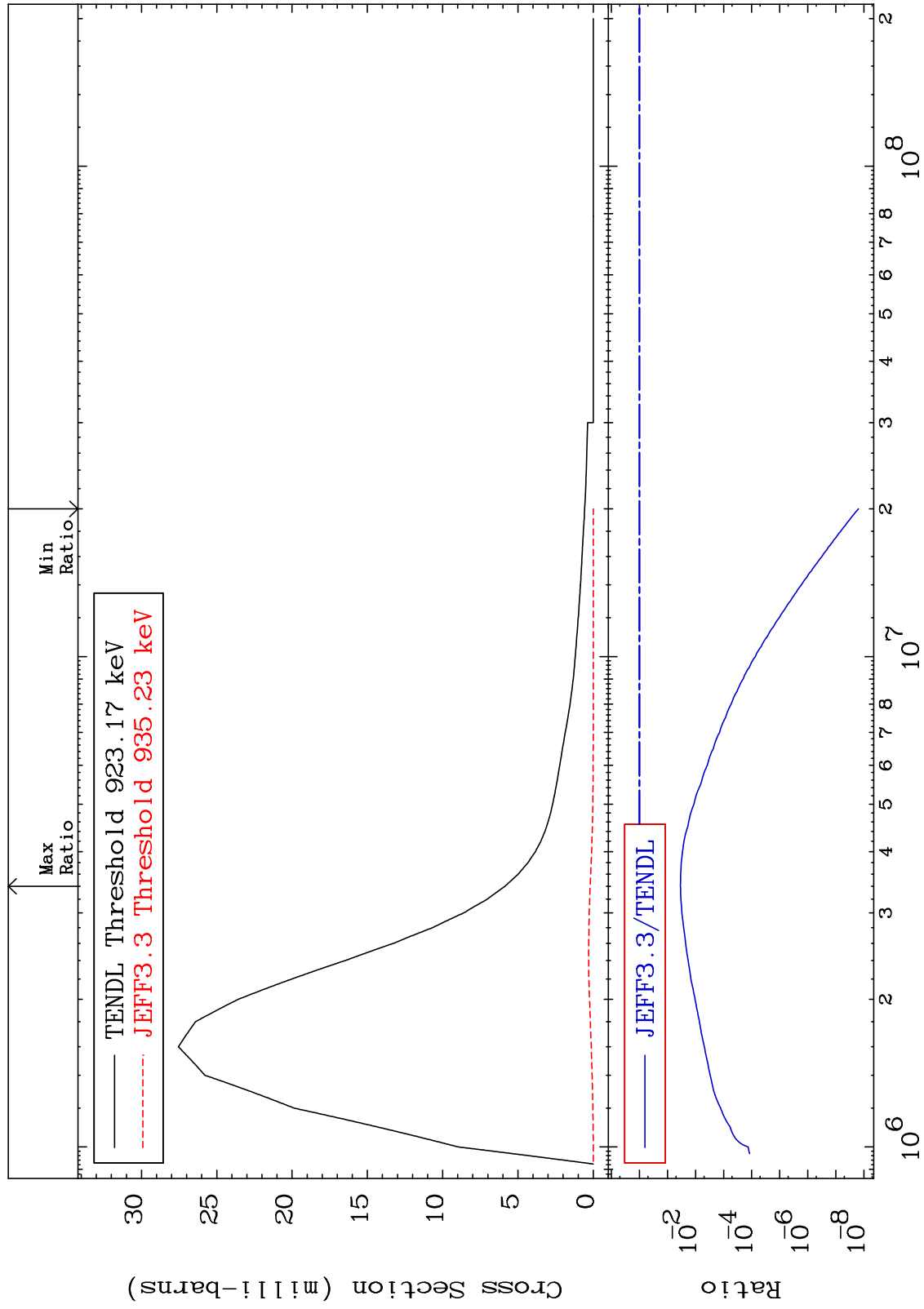
38

77-Ir-193

MAT 7731

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

77-Ir-193  
-100.0 To -96.53%



39

Incident Energy (eV)

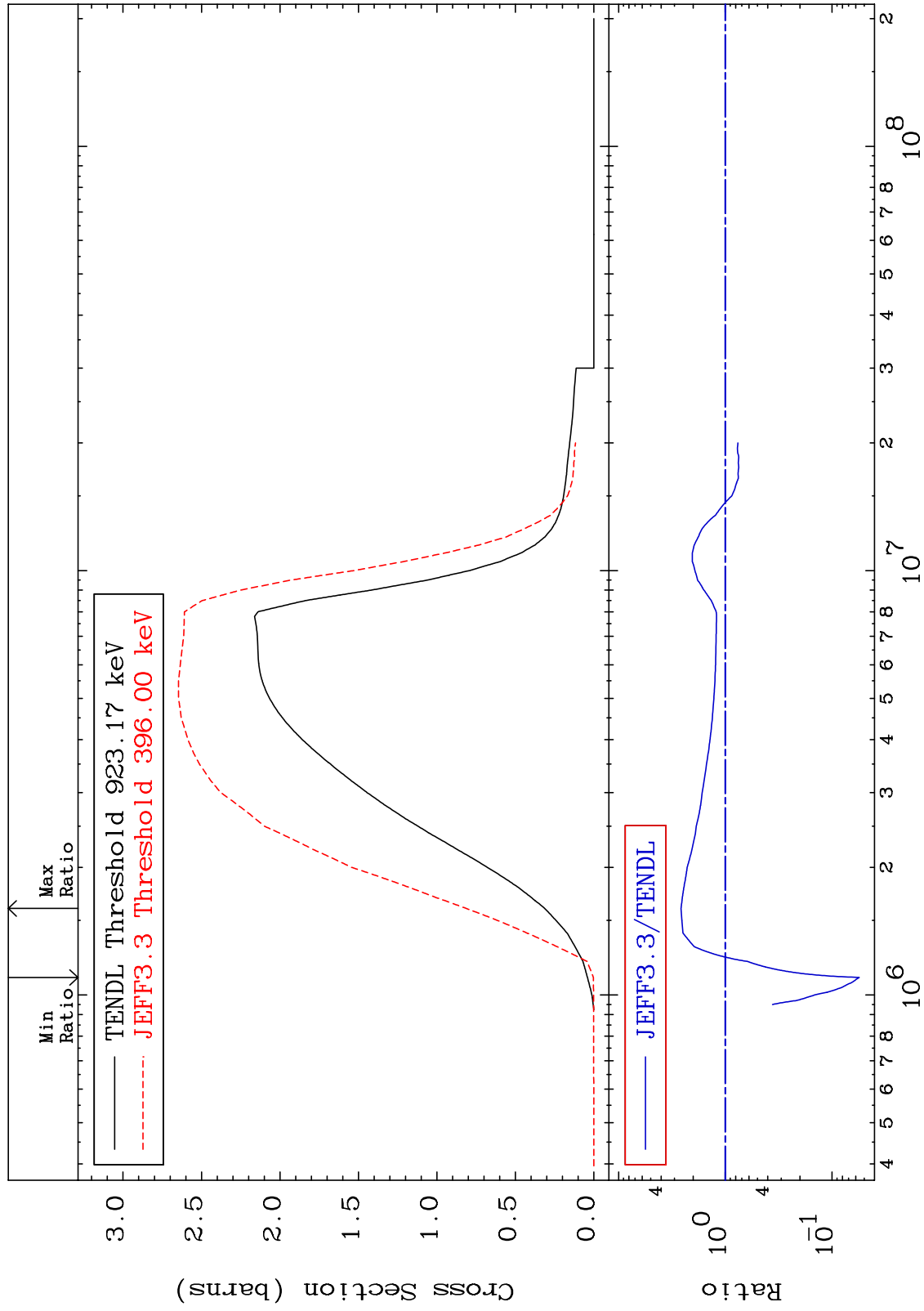
77-Ir-193



MAT 7731

(n,n') Continuum  
Cross Section

<sup>77</sup>Ir-193  
-94.44 To 159.8 %



40

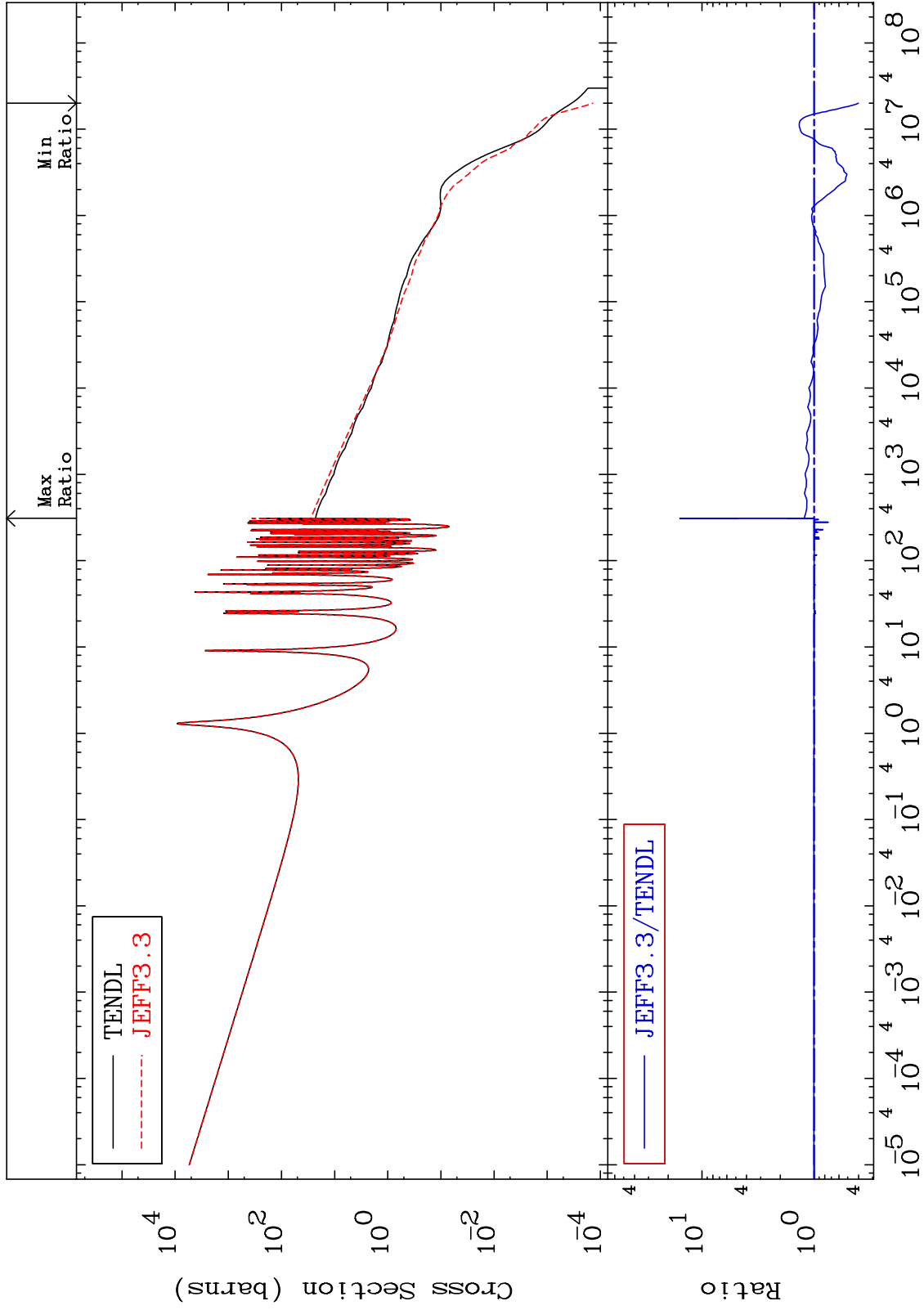
Incident Energy (eV)

<sup>77</sup>Ir-193

MAT 7731

(n,  $\gamma$ )  
Cross Section

77-Ir-193  
-59.84 To 1471. %



41

Incident Energy (eV)

77-Ir-193

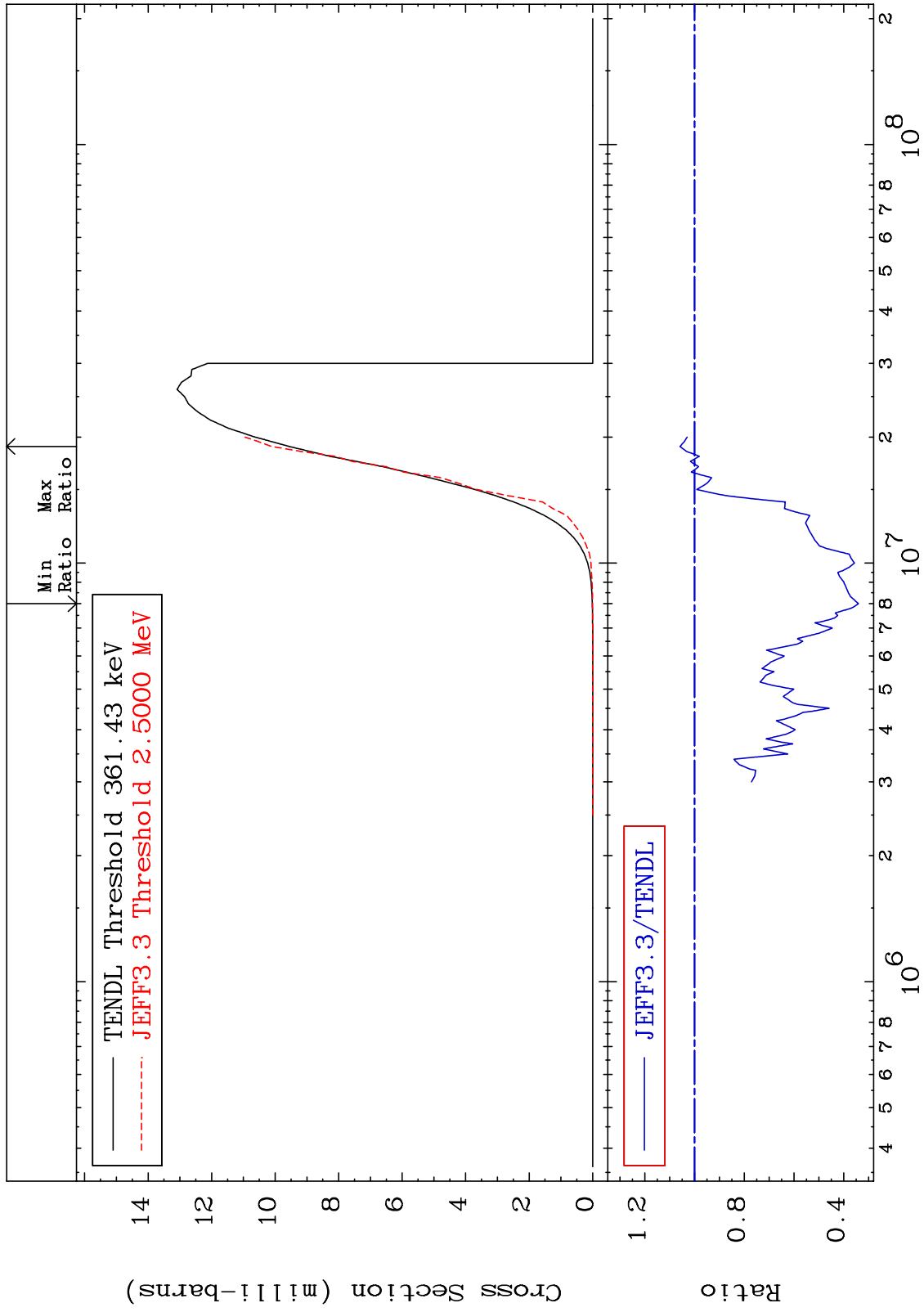
MAT 7731

(n, p)

<sup>77</sup>Ir-193

Cross Section

-65.92 To 5.821 %



42

Incident Energy (eV)

<sup>77</sup>Ir-193

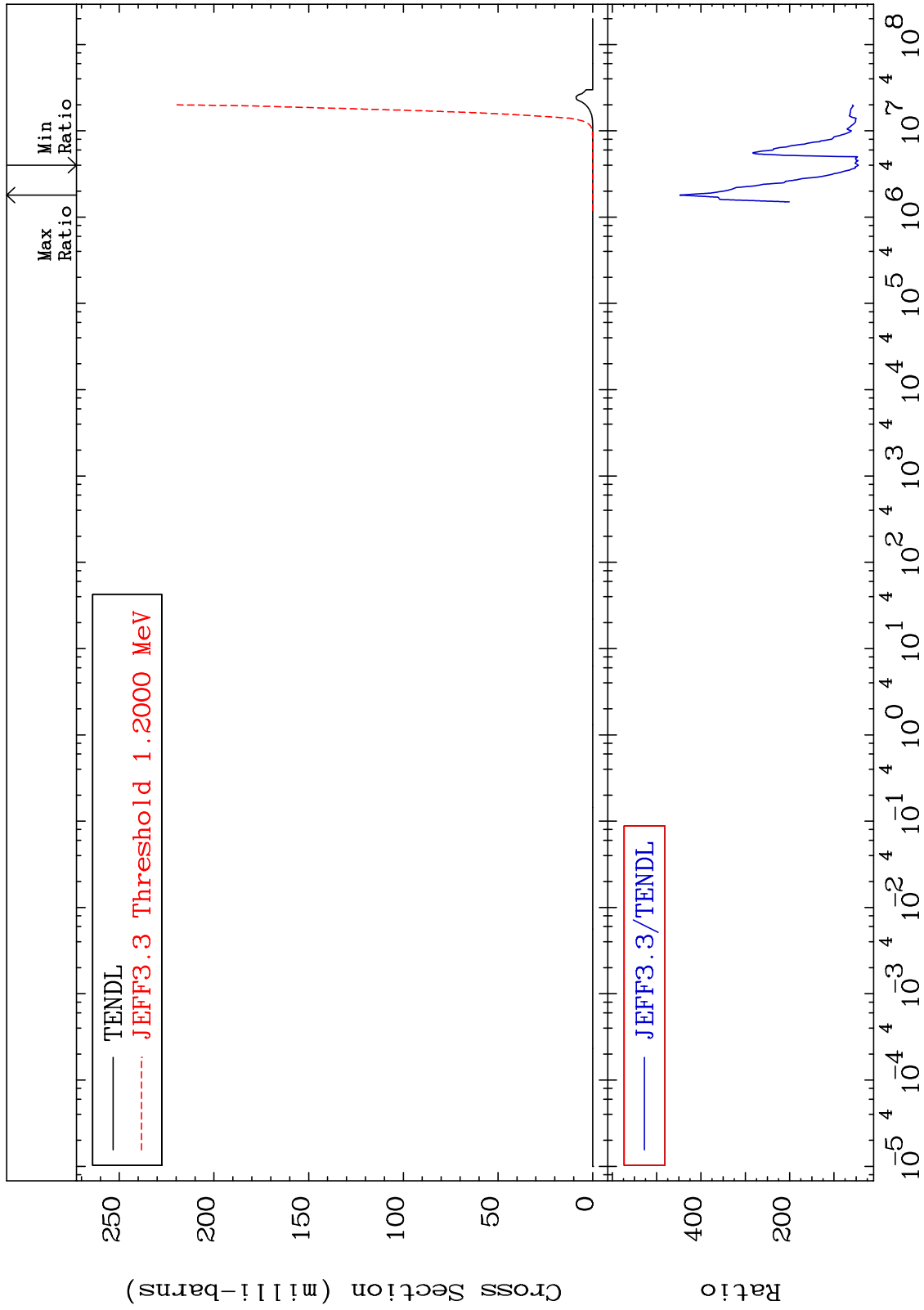
MAT 7731

(n,  $\alpha$ )

77-Ir-193

Cross Section

4399. To 9999. %



43

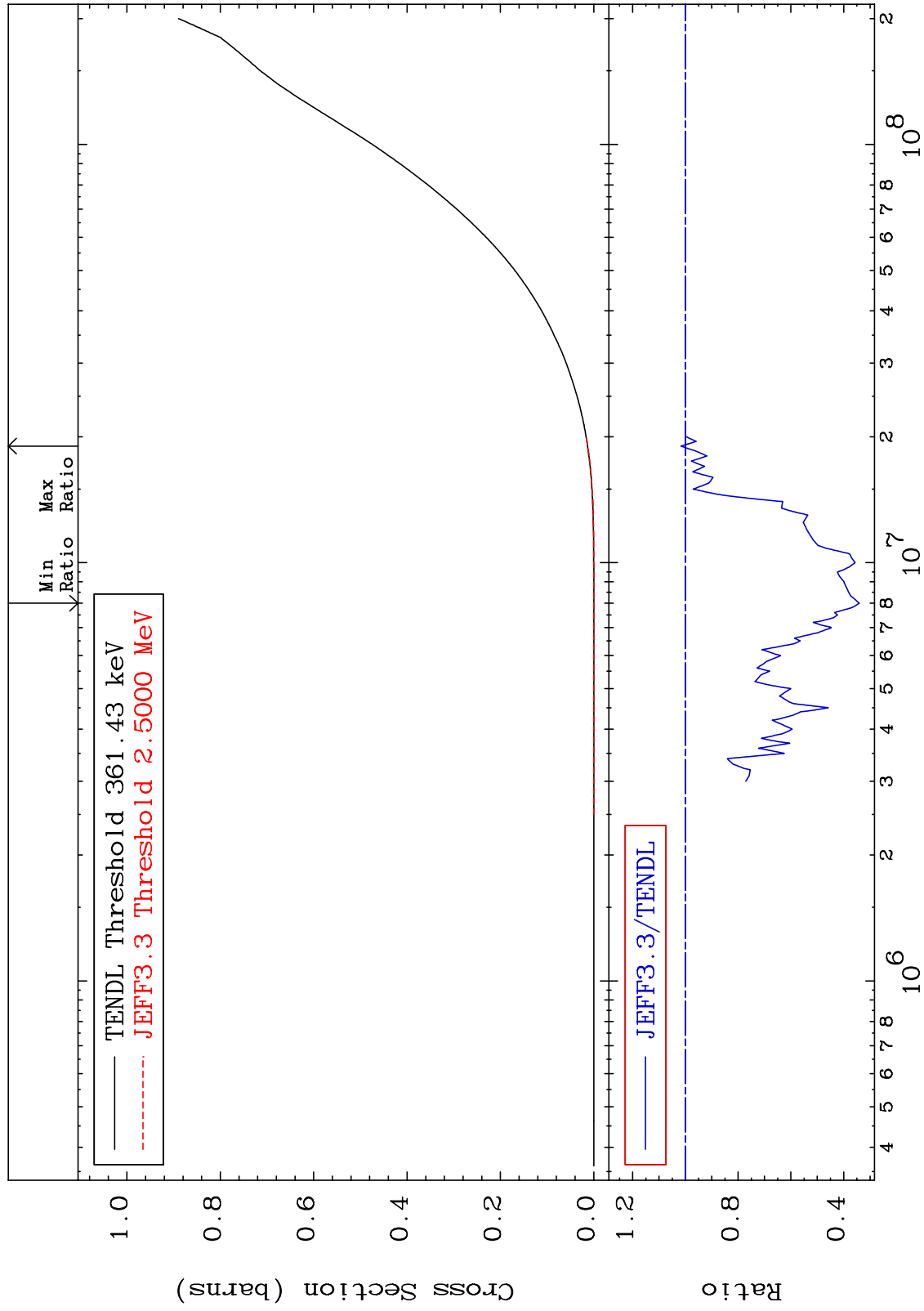
Incident Energy (eV)

77-Ir-193

MAT 7731

Hydrogen Production  
Cross Section

77-Ir-193  
-65.92 To 1.649 %



44

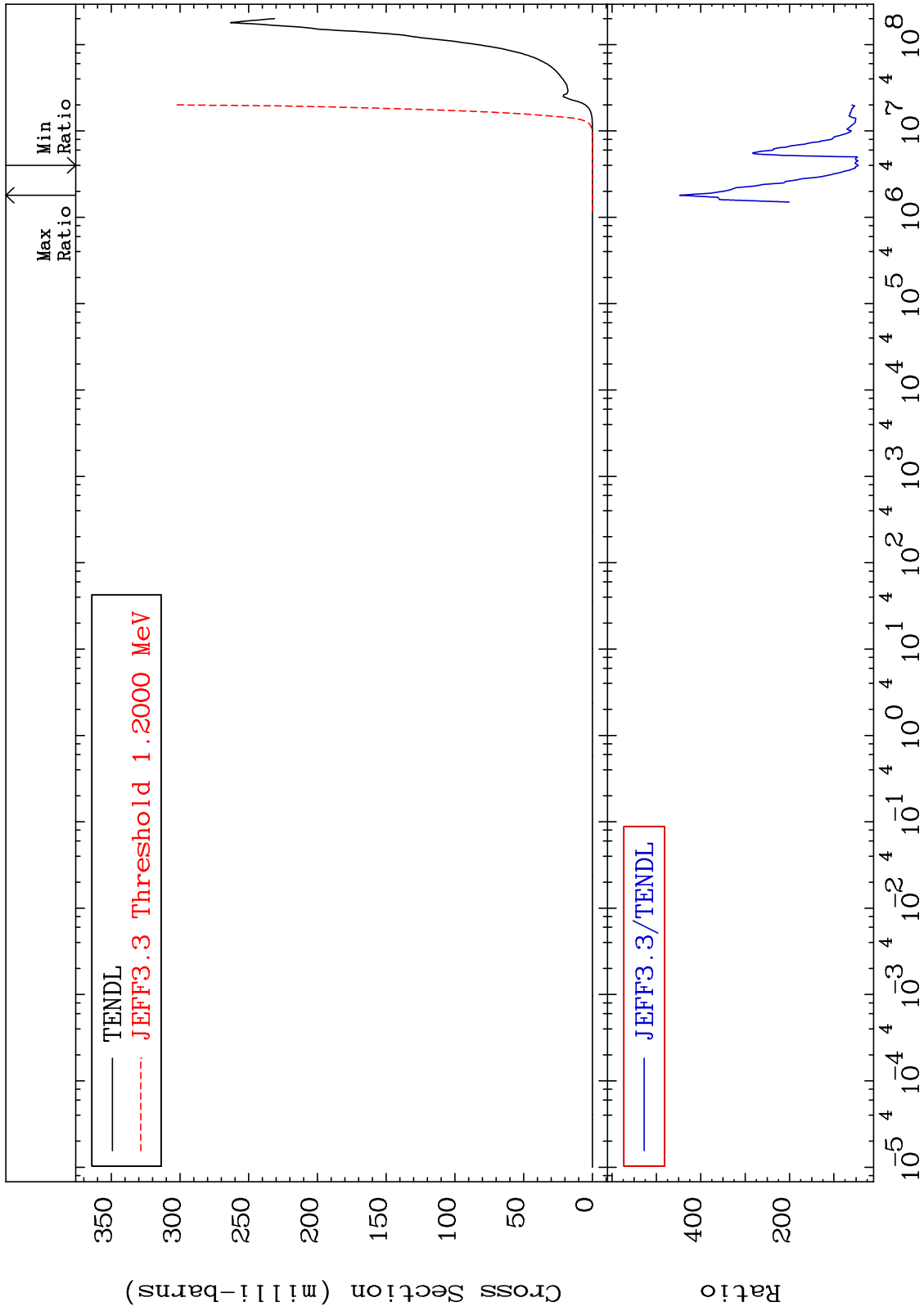
Incident Energy (eV)

77-Ir-193

MAT 7731

He-4 Production  
Cross Section

77-Ir-193  
4399. To 9999. %



45

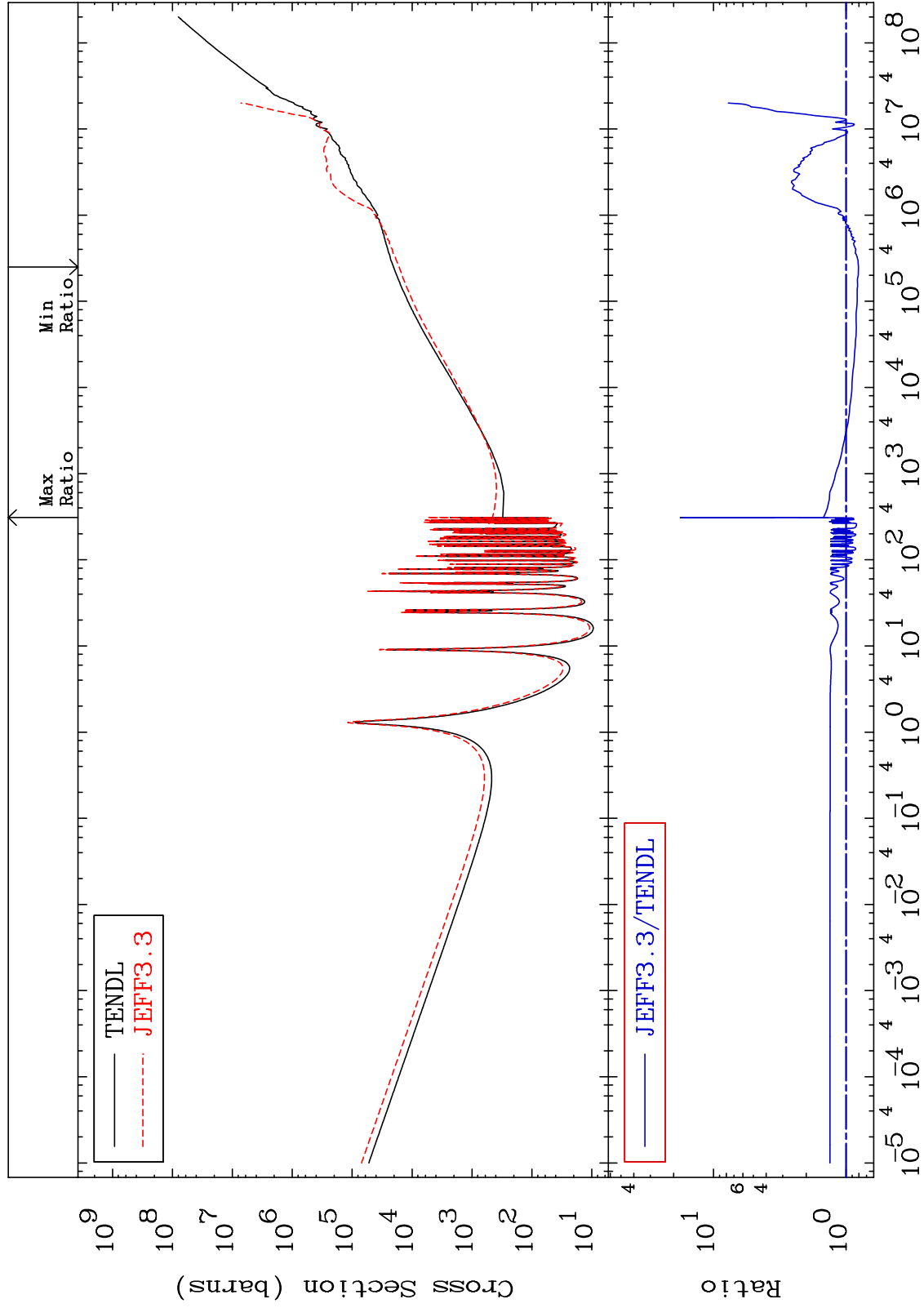
Incident Energy (eV)

77-Ir-193

MAT 7731

Kerma total (eV-barns)  
Cross Section

77-Ir-193  
-19.50 To 1675. %



46

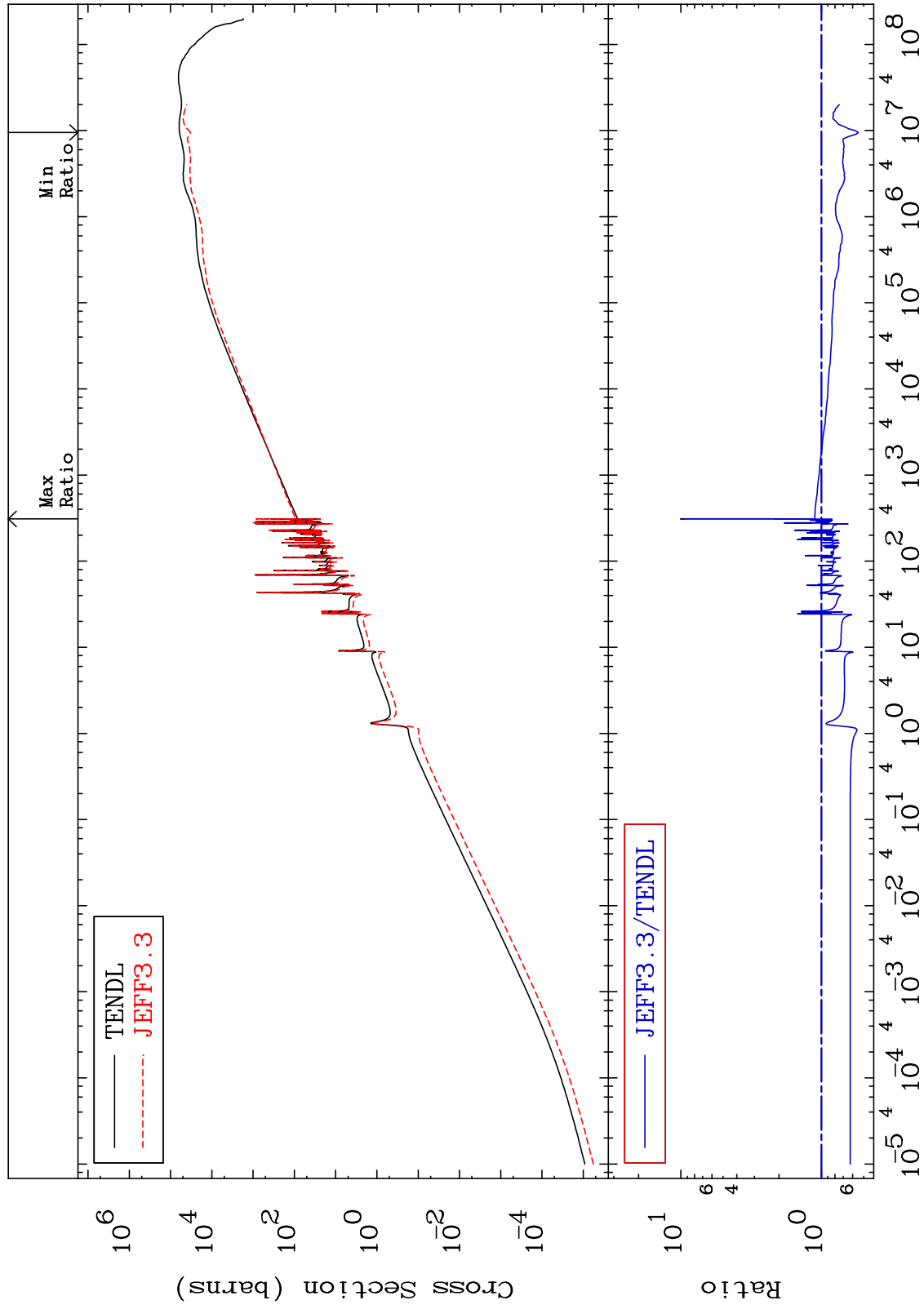
Incident Energy (eV)

77-Ir-193

MAT 7731

Kerma elastic  
Cross Section

<sup>77</sup>Ir-193  
-45.60 To 906.1 %

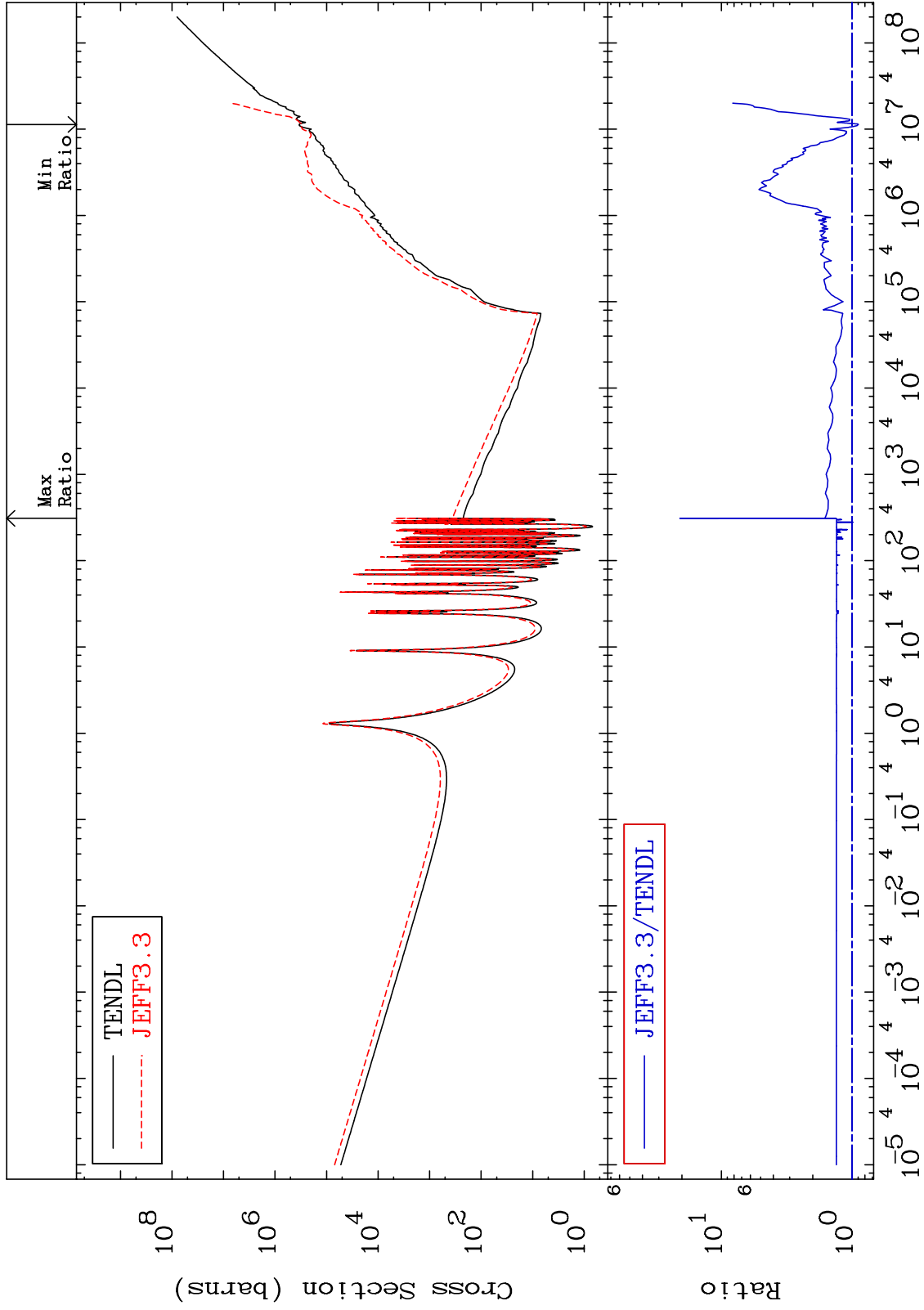




MAT 7731

Kerma non-elastic (all but mt2)  
Cross Section

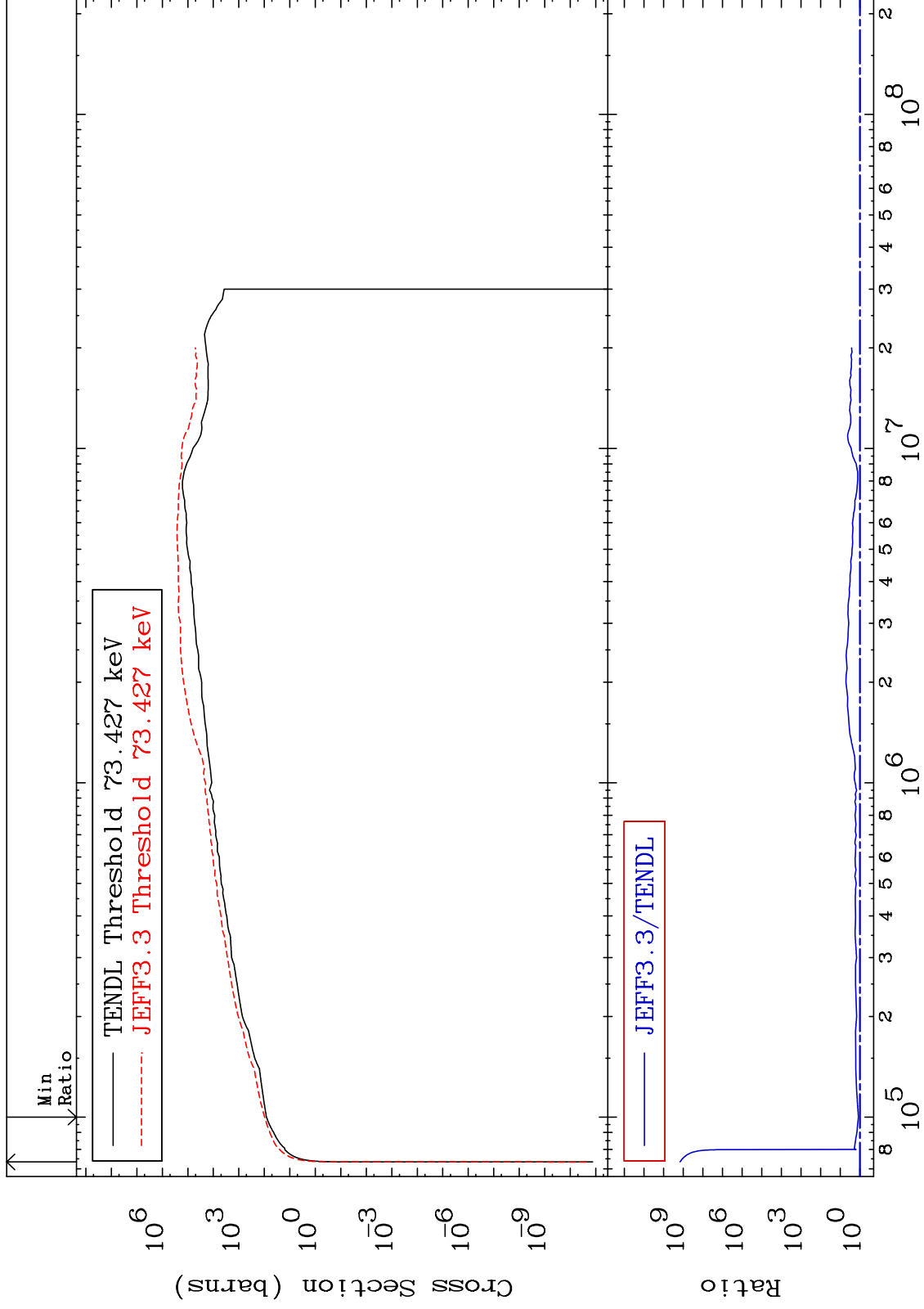
77-Ir-193  
-10.46 To 1968. %



MAT 7731

Kerma inelastic (mt51-91)  
Cross Section

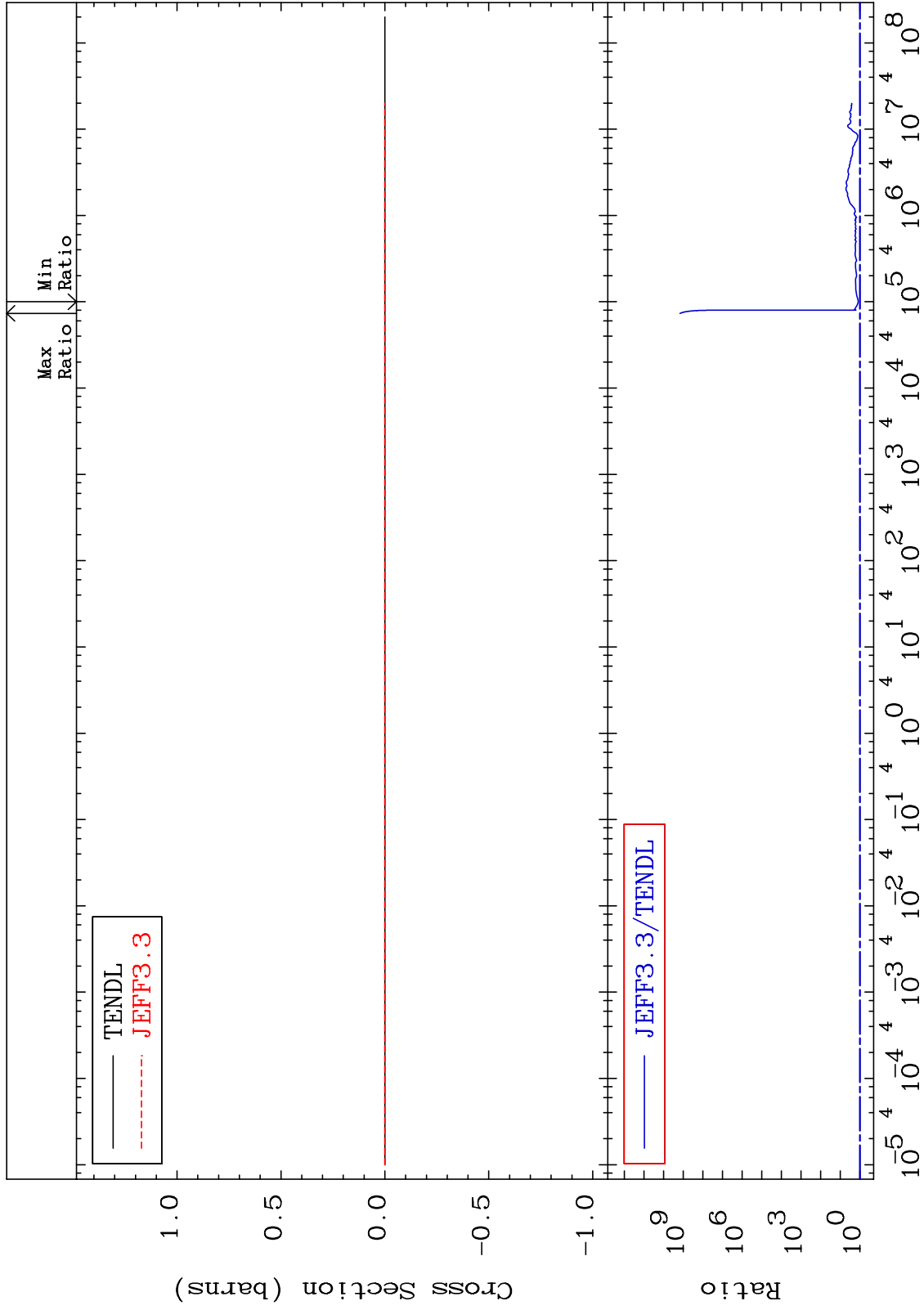
77-Ir-193  
17.80 To 9999. %



MAT 7731

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

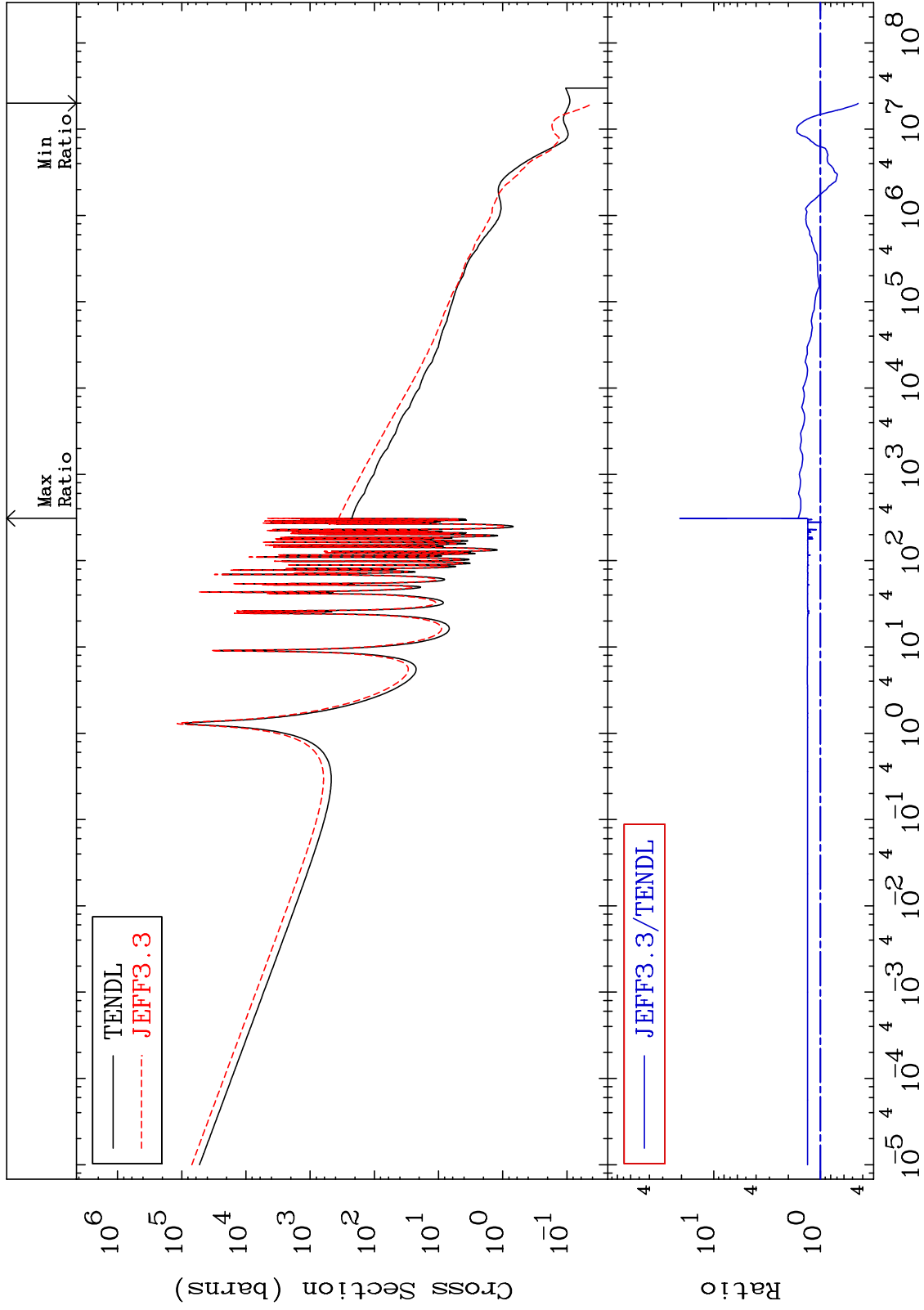
77-Ir-193  
17.80 To 9999. %



MAT 7731

Kerma capture (mt102)  
Cross Section

77-Ir-193  
-56.01 To 1968. %



51

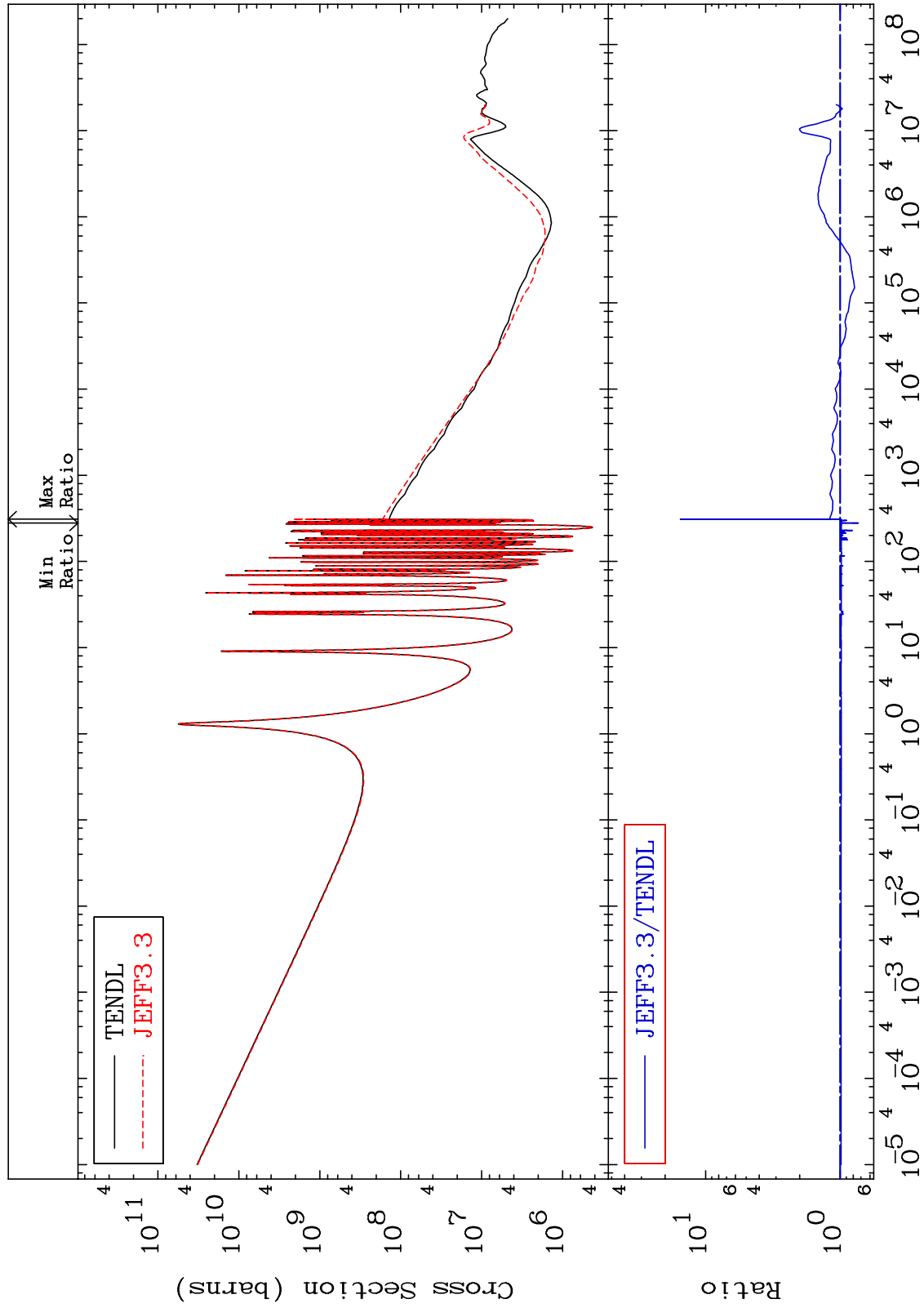
Incident Energy (eV)

77-Ir-193

MAT 7731

Total photon (eV-barns)  
Cross Section

77-Ir-193  
-27.00 To 1440. %



52

Incident Energy (eV)

77-Ir-193

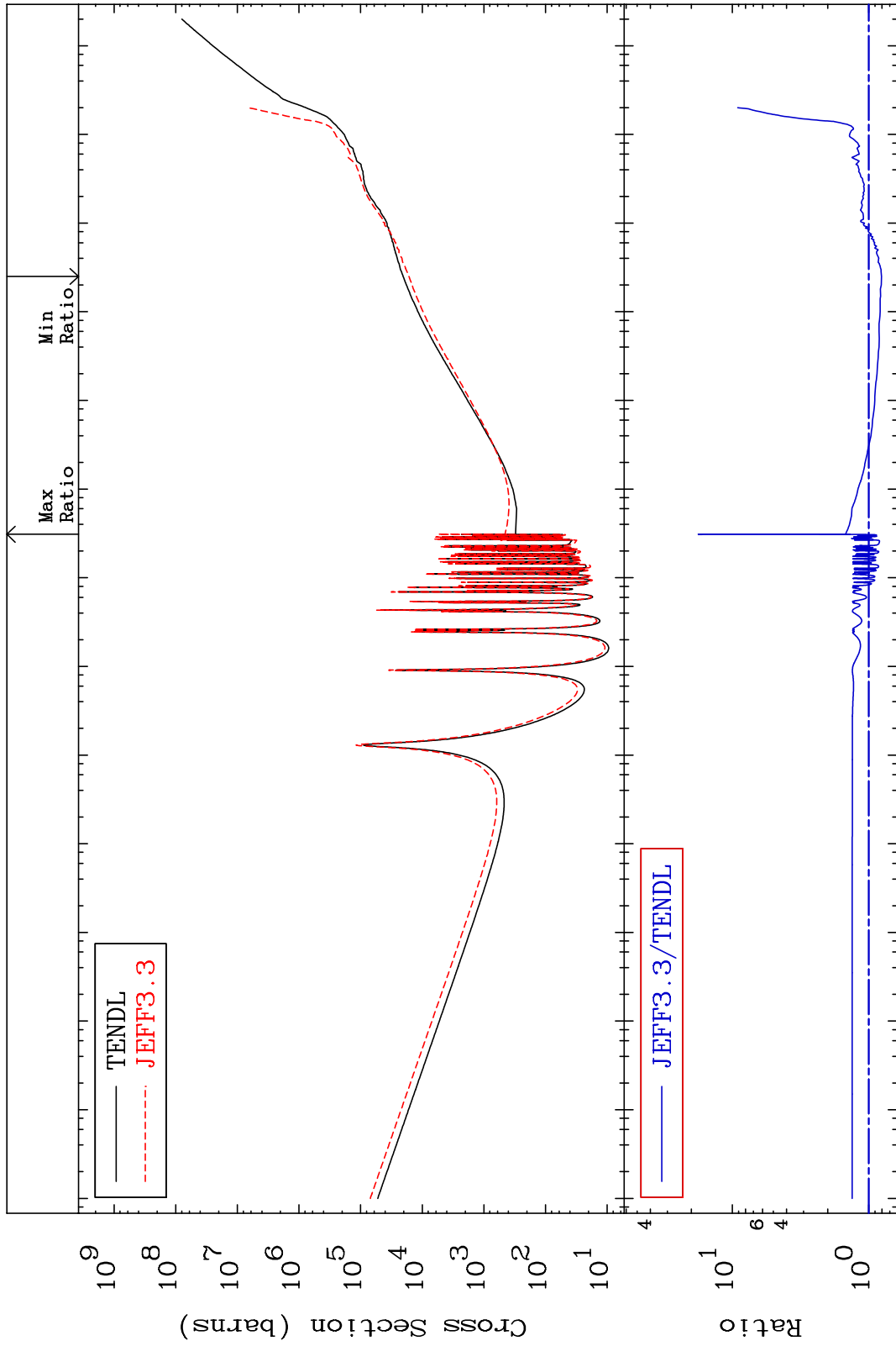
MAT 7731

Total kinematic kerma (high limit)

77-Ir-193

-19.50 To 1675. %

Cross Section



Ratio

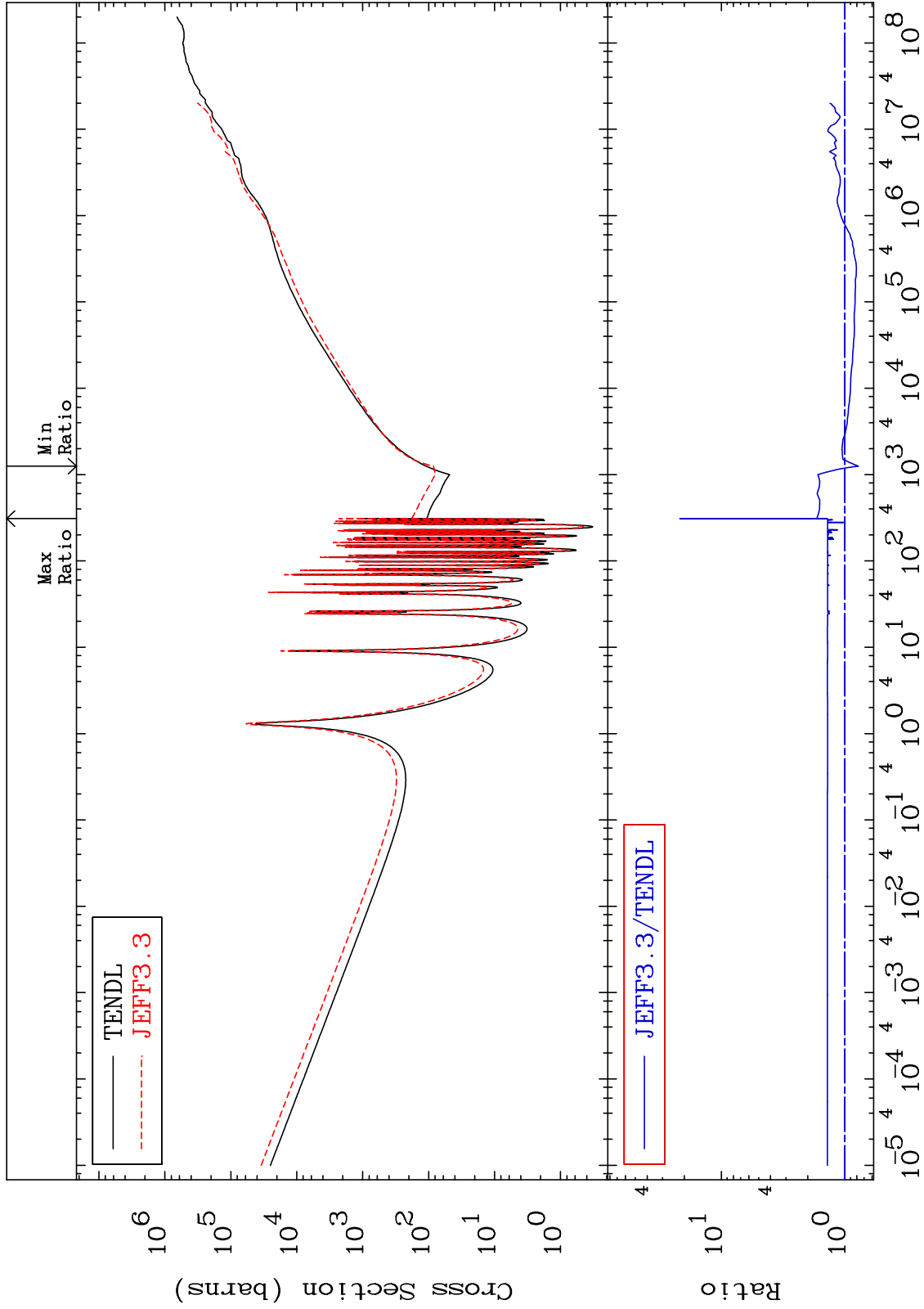
Incident Energy (eV)

77-Ir-193

MAT 7731

Dpa total (eV-barns)  
Cross Section

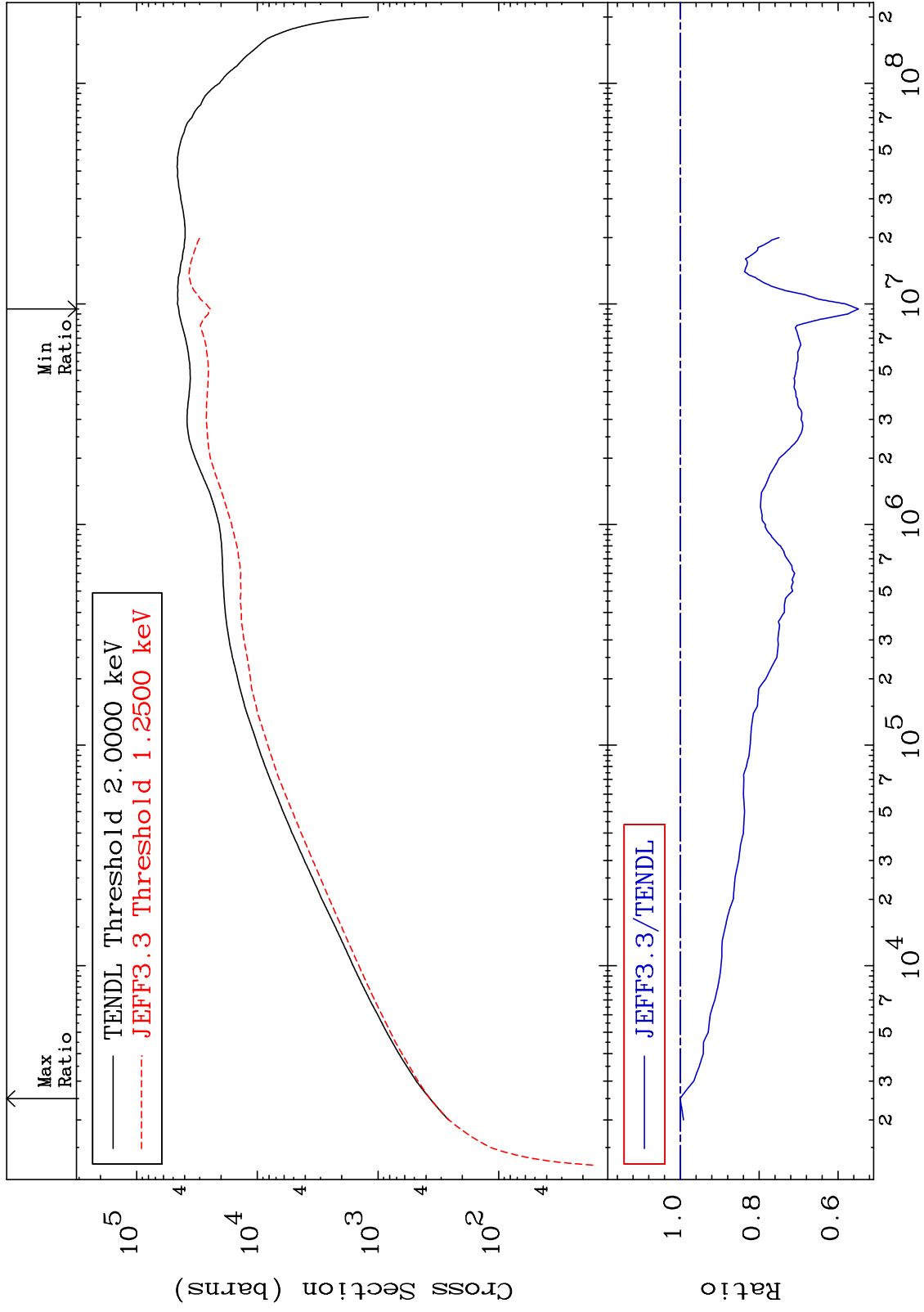
77-Ir-193  
-22.39 To 2066. %



MAT 7731

Dpa elastic (mt2)  
Cross Section

77-Ir-193  
-45.17 To 0.079 %

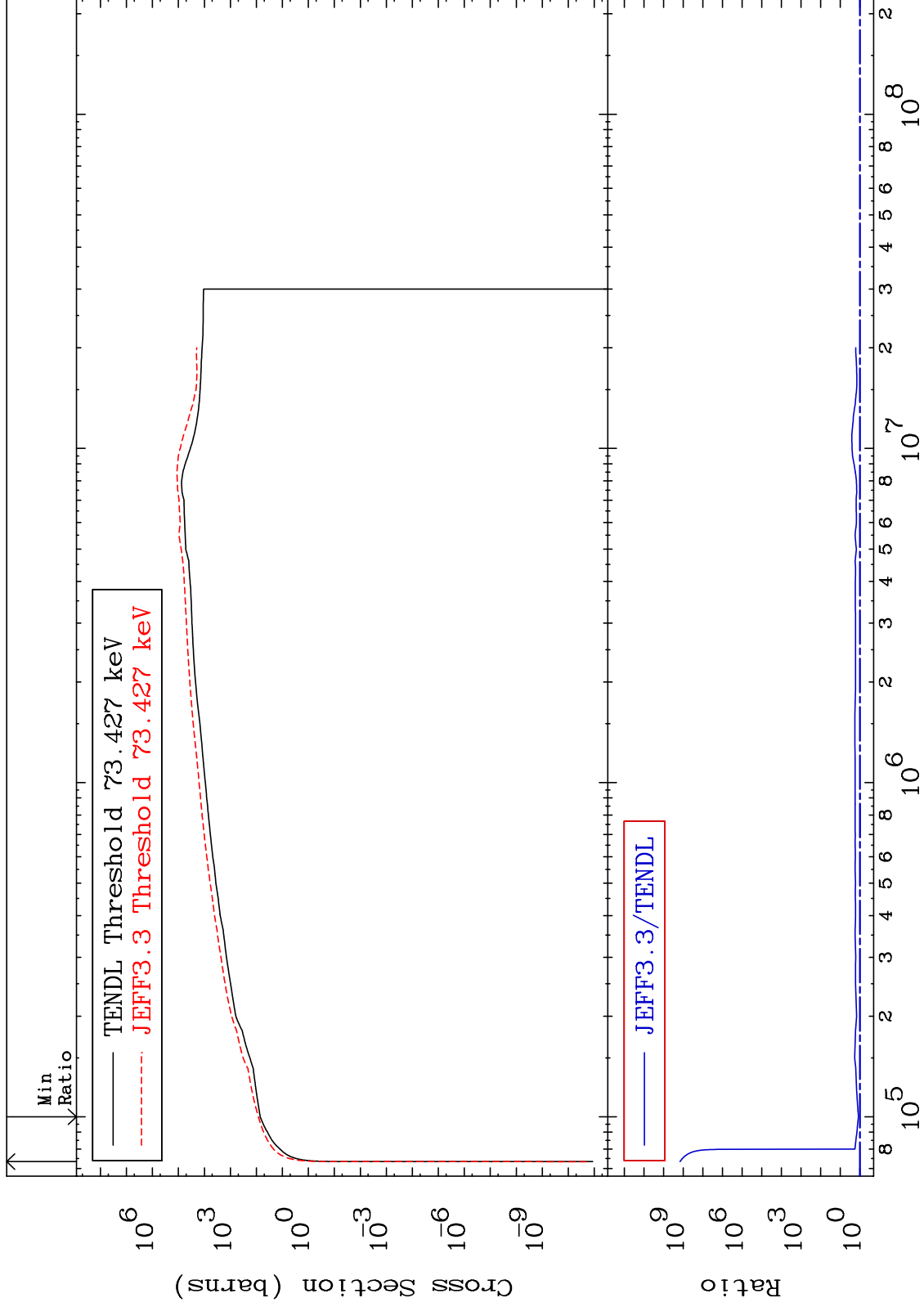




MAT 7731

Dpa inelastic (mt51-91)  
Cross Section

77-Ir-193  
17.80 To 9999. %



56

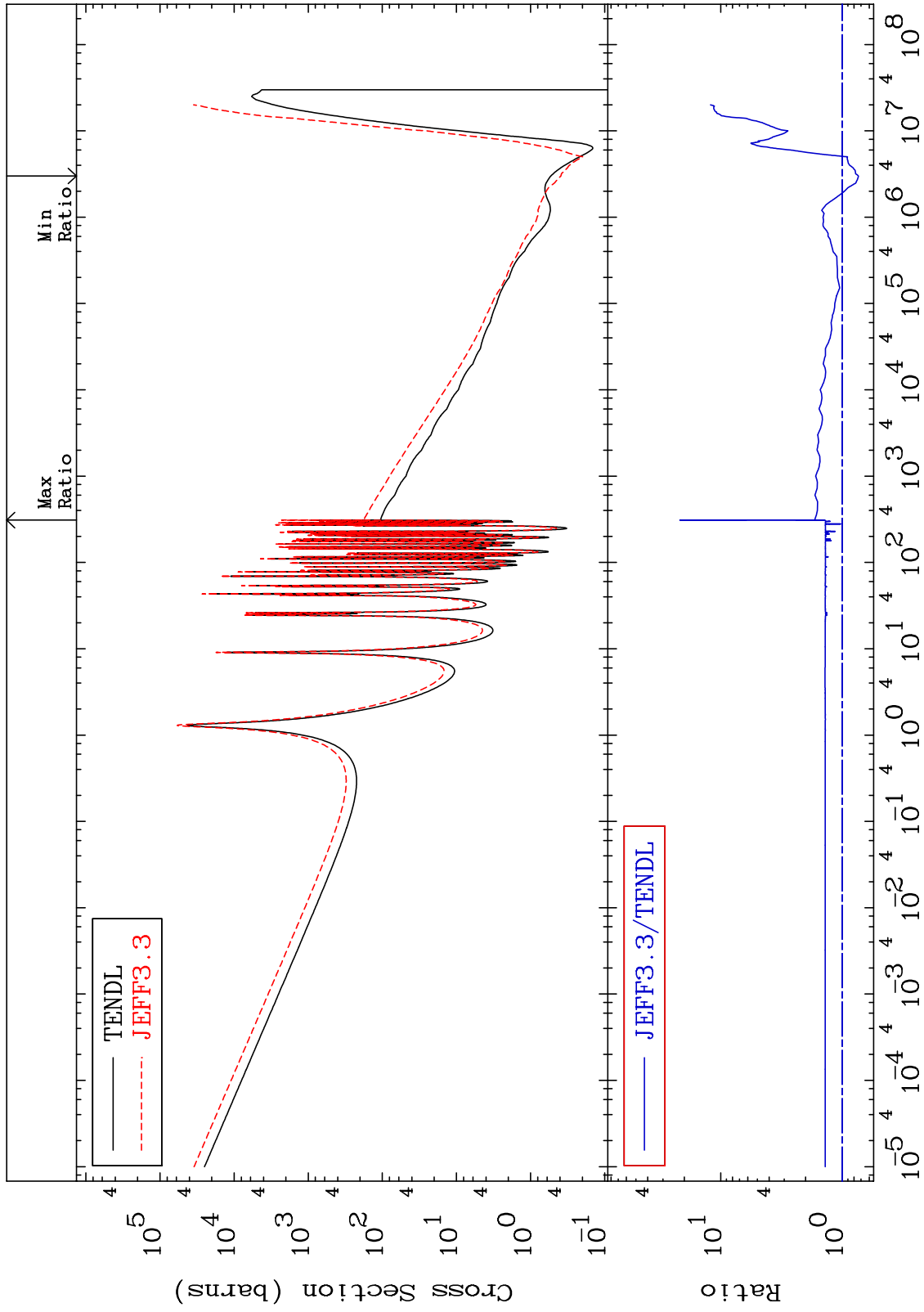
Incident Energy (eV)

77-Ir-193

MAT 7731

Dpa disappearance (mt102 -120)  
Cross Section

77-Ir-193  
-26.40 To 2066. %

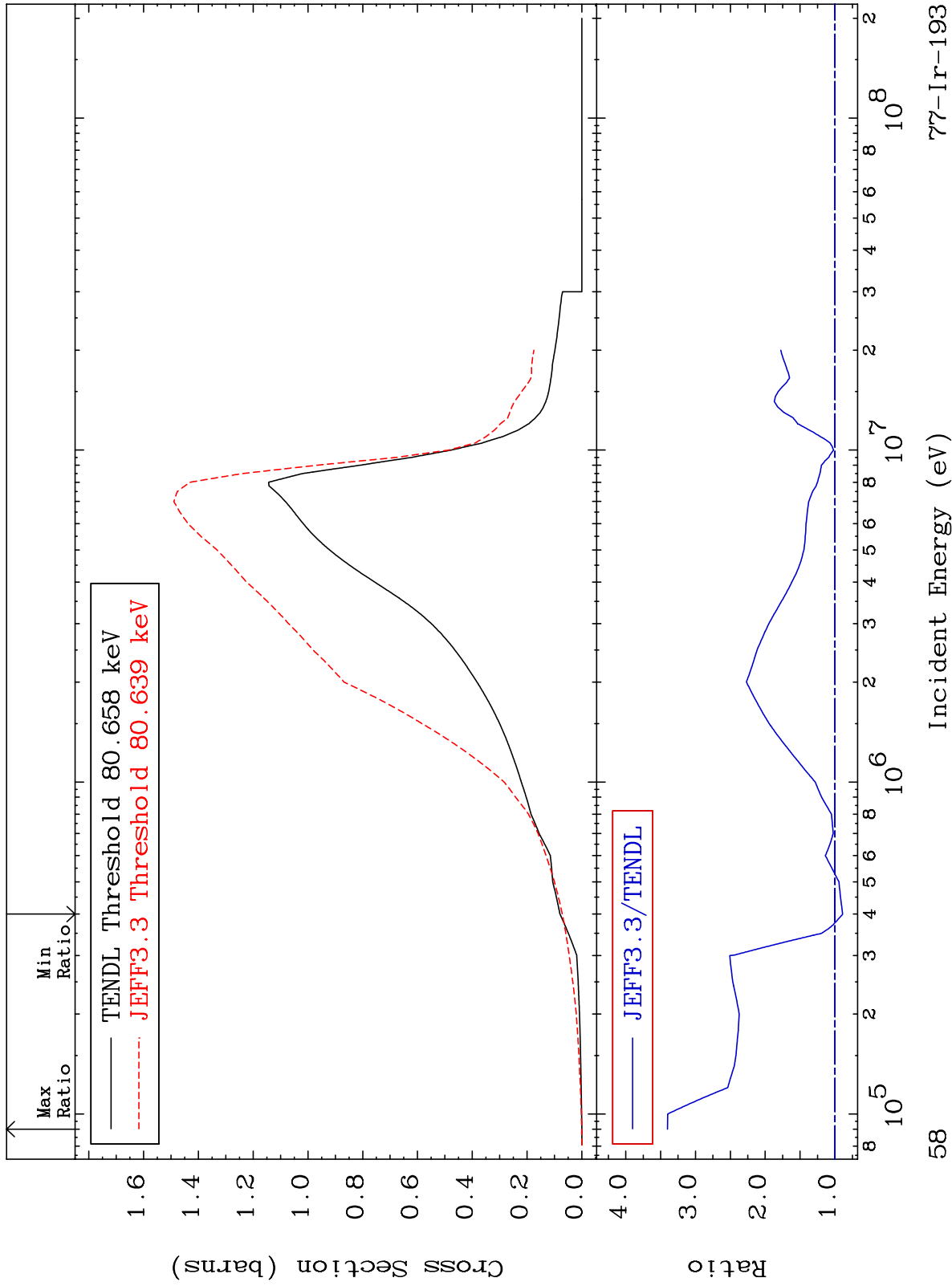


MAT 7731

Inelastic: 77-Ir-193m2

77-Ir-193

Radionuclide Production Cross Section -11.09 To 240.1 %



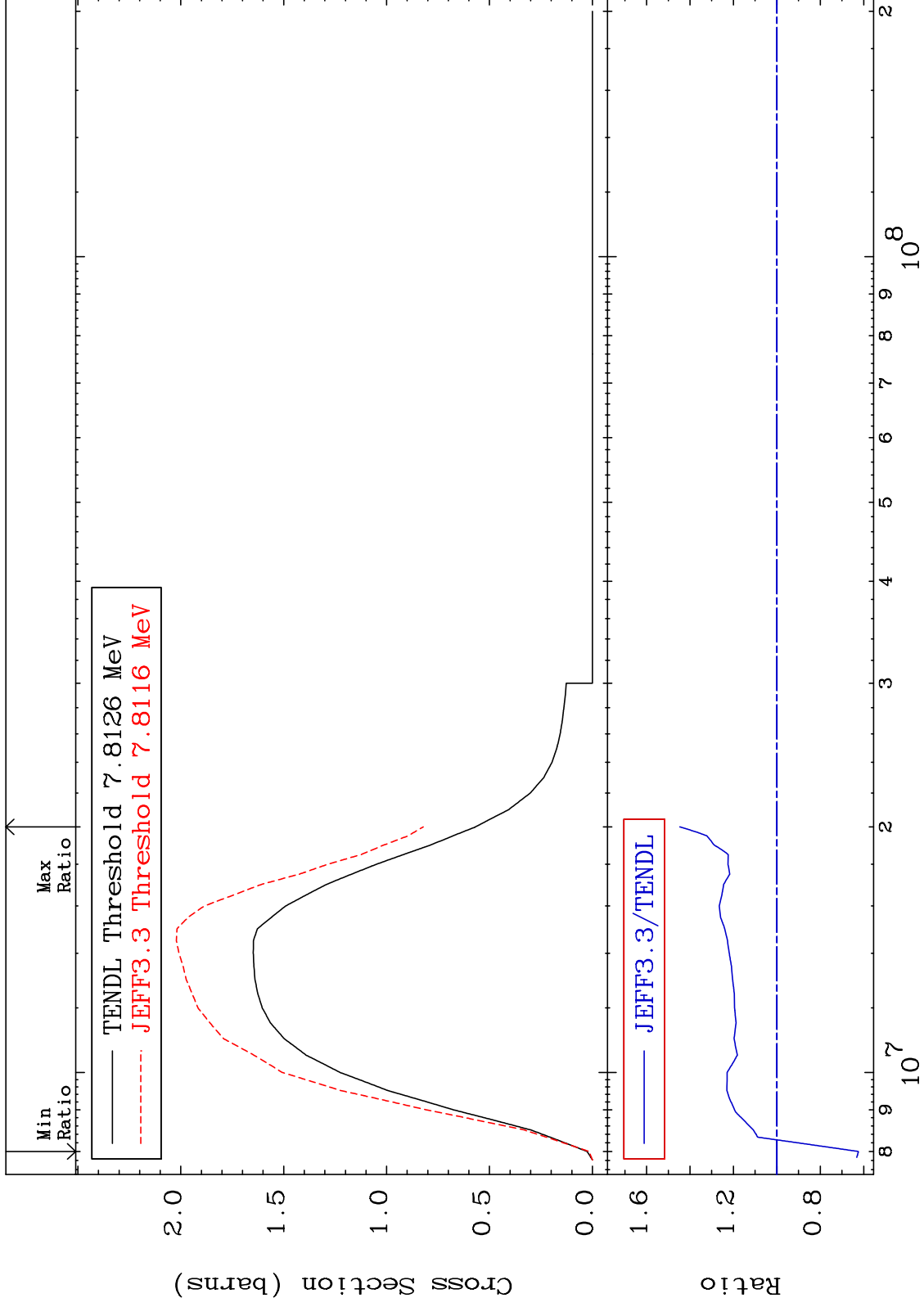
MAT 7731

(n,2n):77-Ir-192g

77-Ir-193

Radionuclide Production Cross Section

-37.56 To 44.70 %



59

Incident Energy (eV)

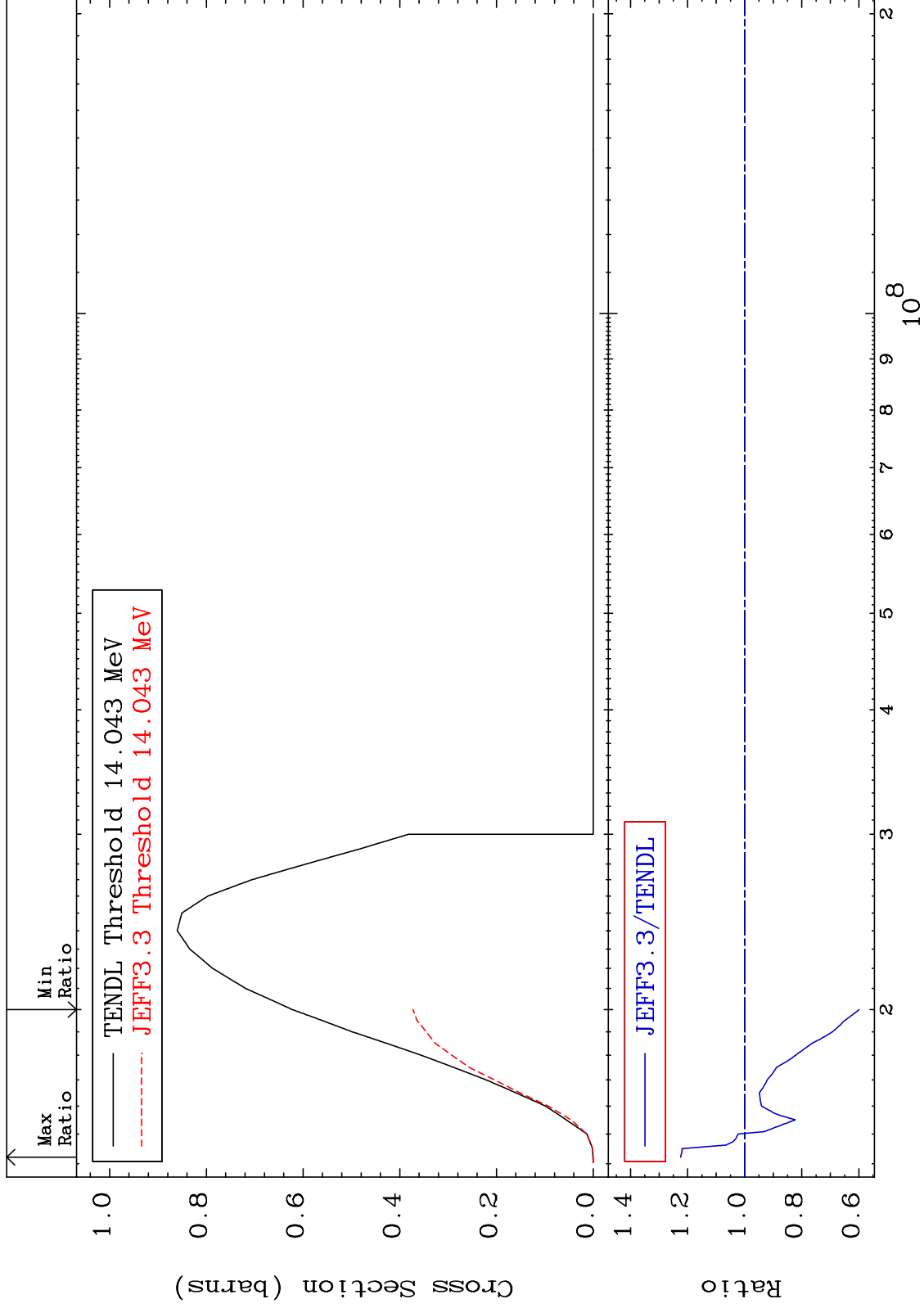
77-Ir-193

MAT 7731

(n,3n):77-Ir-191g

77-Ir-193

Radionuclide Production Cross Section -40.10 To 22.46 %



MAT 7731

(n, 3n): 77-Ir-191m3

77-Ir-193

Radionuclide Production Cross Section -13.58 To 88.95 %

