

Program Complot  
(Version 2021-1)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550

U.S.A.

Tele: 925-443-1911

E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

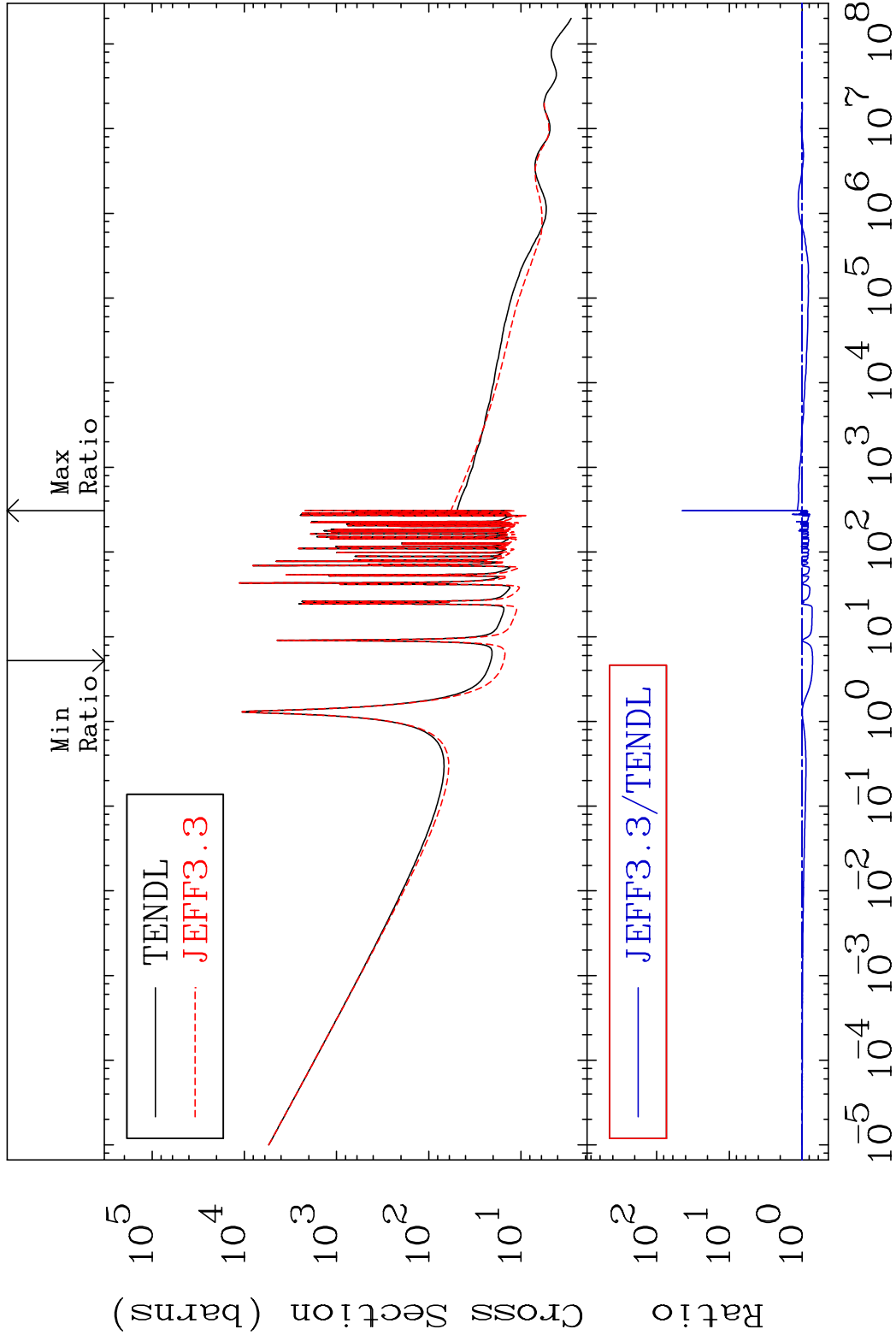
Press Mouse Button to Start

MAT 7731

Total

77-Ir-193

Cross Section -27.92 To 4337. %



1

Incident Energy (eV)

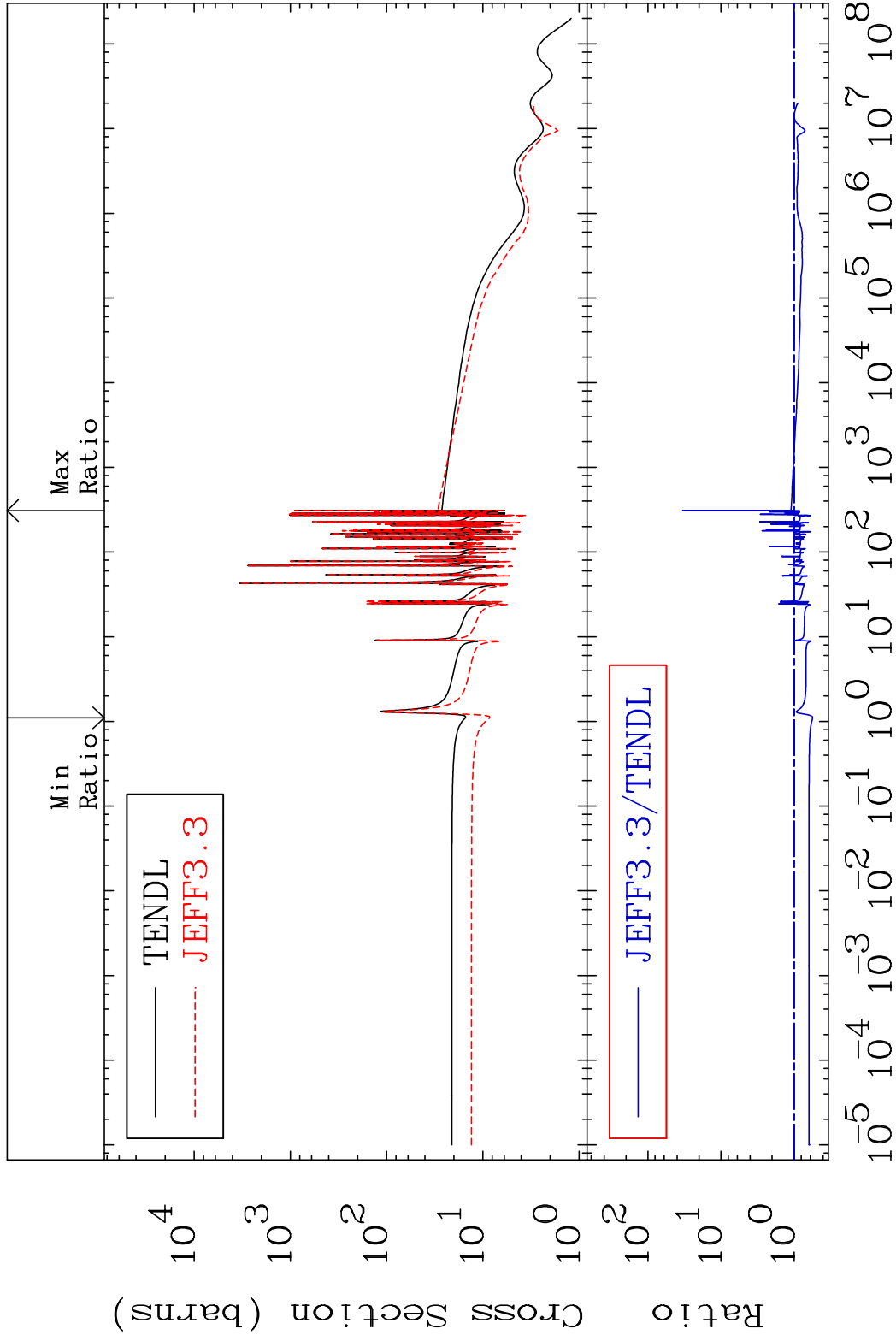
77-Ir-193

MAT 7731

Elastic

77-Ir-193

Cross Section -44.22 To 3288. %

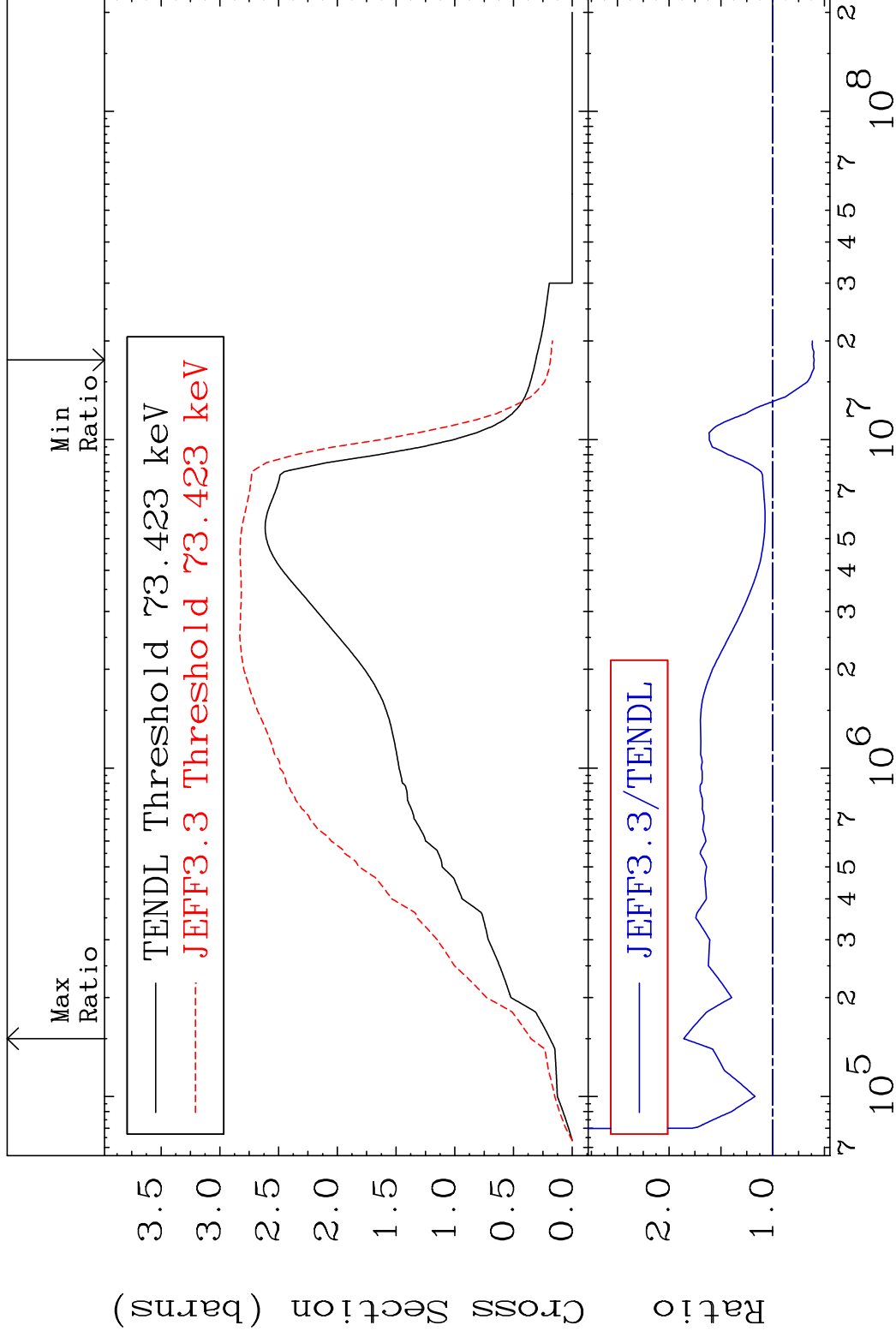


MAT 7731

Inelastic

77-Ir-193

Cross Section -40.02 To 85.94 %



3

Incident Energy (eV)

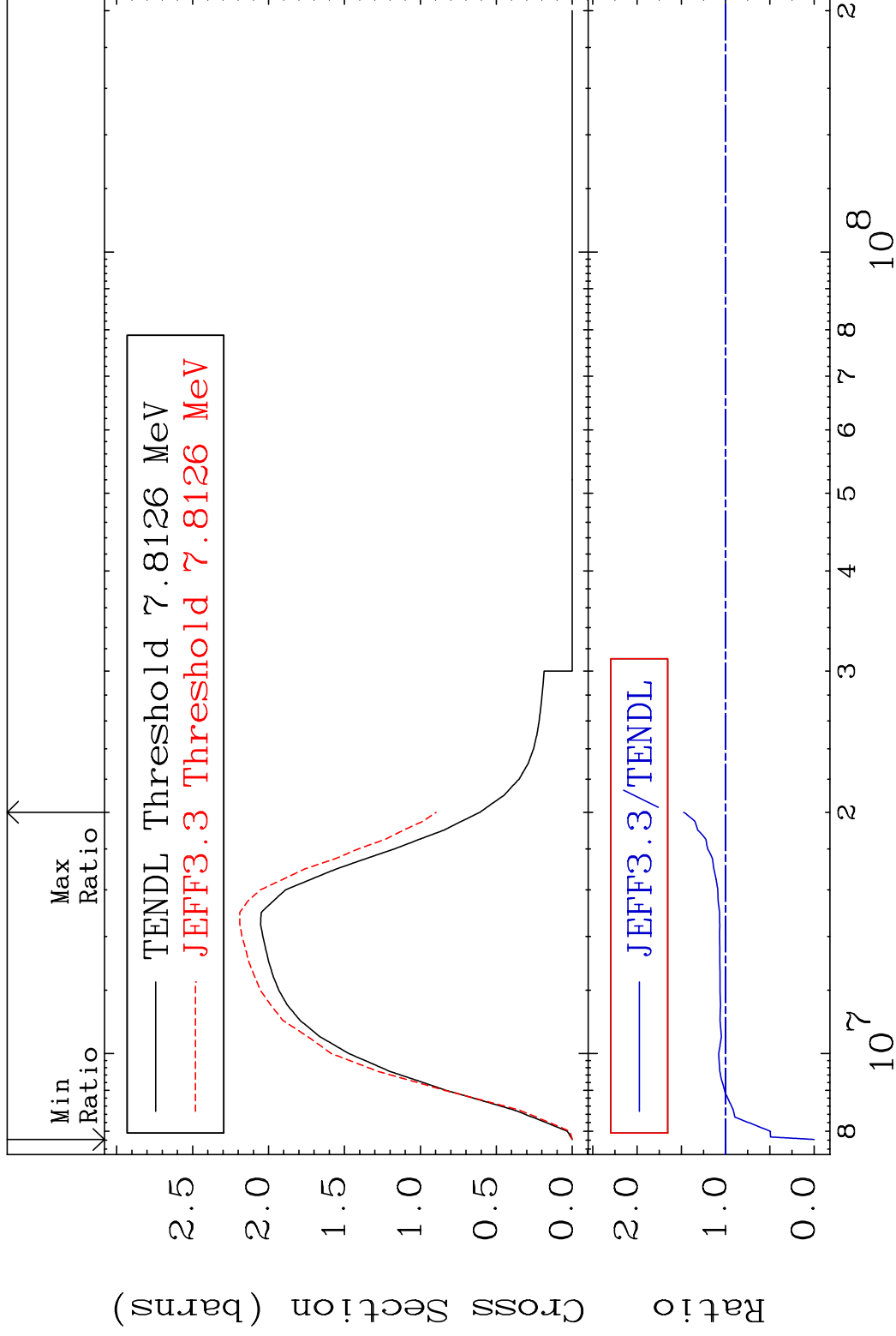
77-Ir-193

MAT 7731

(n,2n)

77-Ir-193

Cross Section -100.0 To 47.41 %



4

Incident Energy (eV)

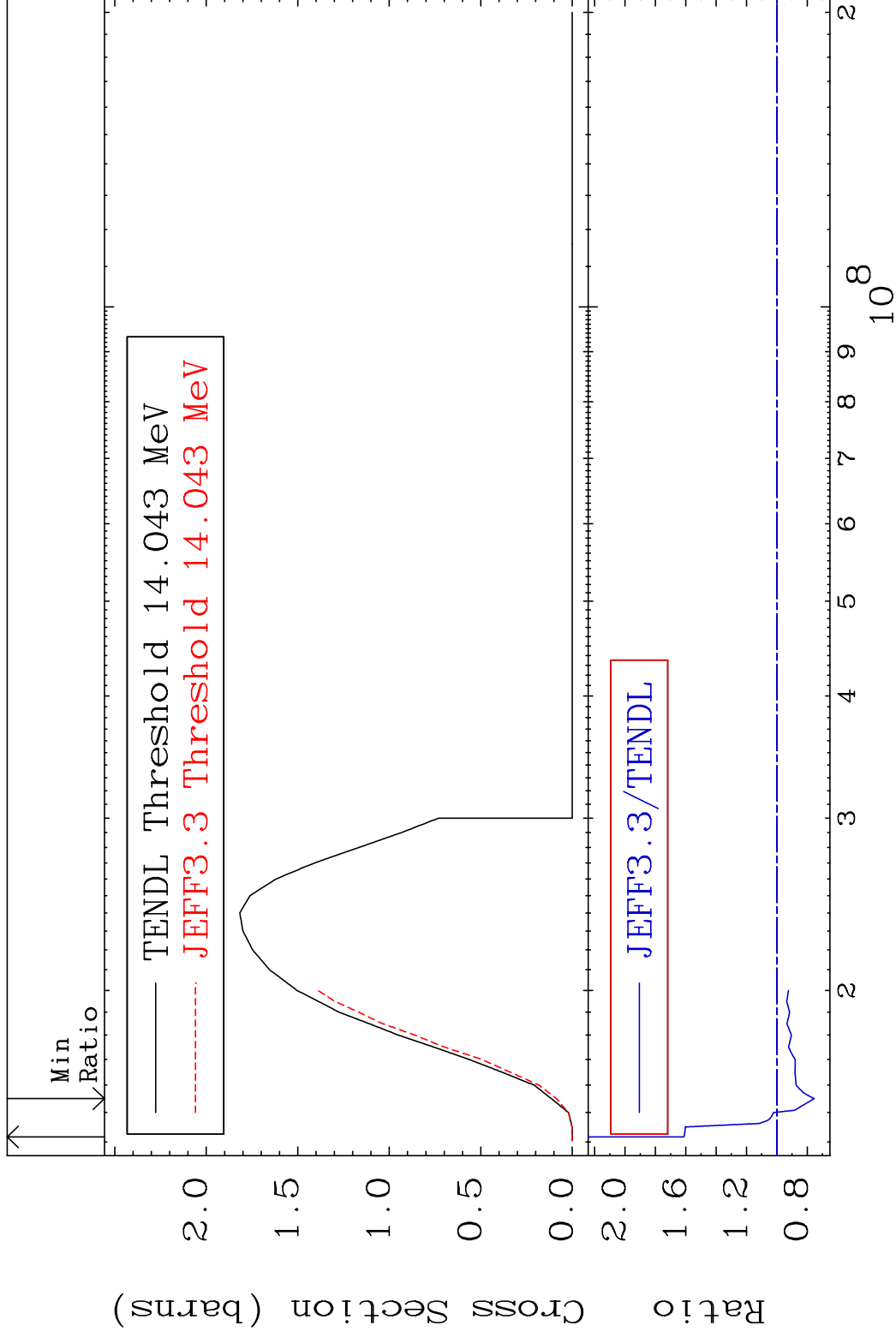
77-Ir-193

MAT 7731

(n,3n)

77-Ir-193

Cross Section -24.52 To 61.39 %



5

Incident Energy (eV)

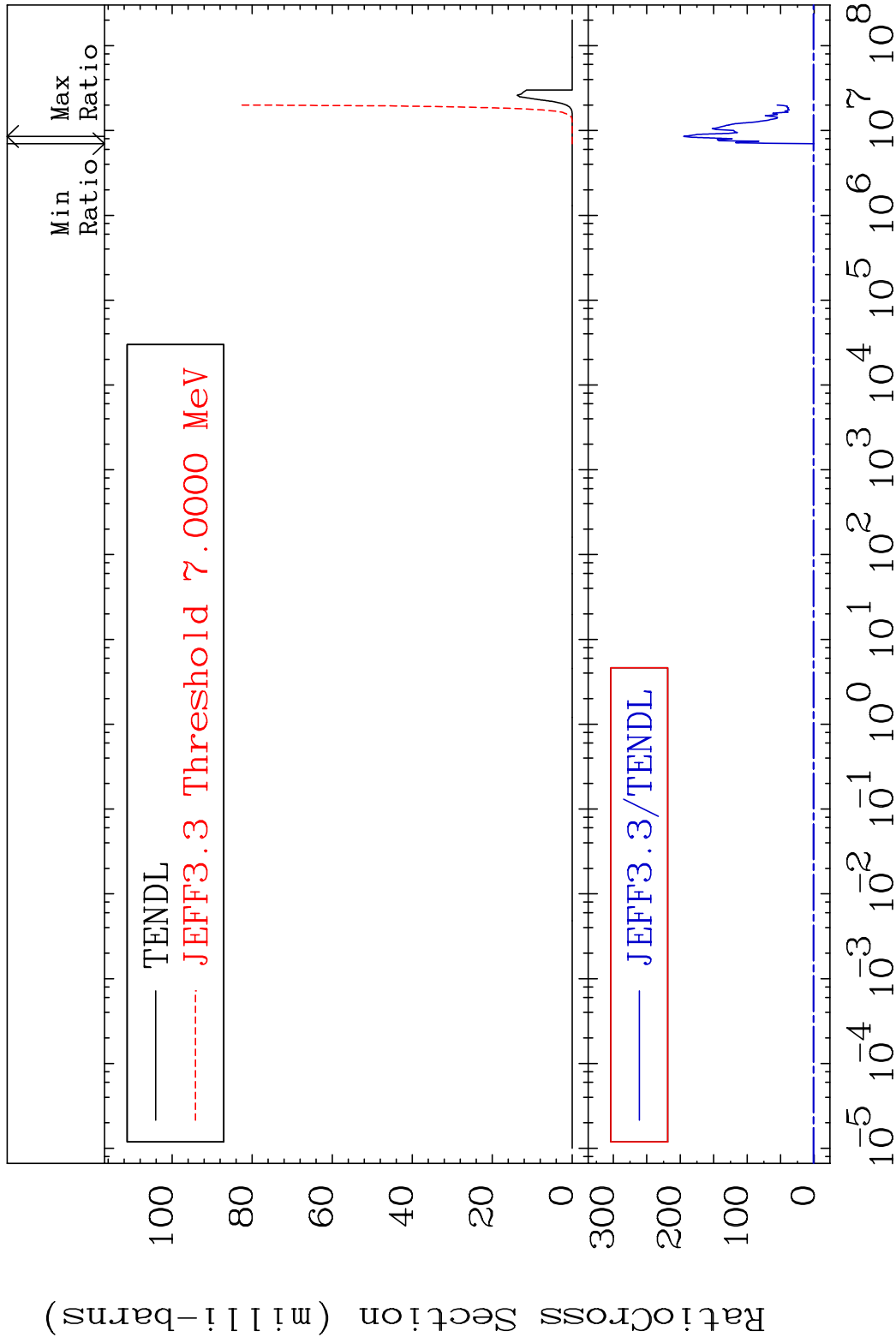
77-Ir-193

MAT 7731

(n, n')  $\alpha$

77-Ir-193

Cross Section -100.0 To 9999. %



6

Incident Energy (eV)

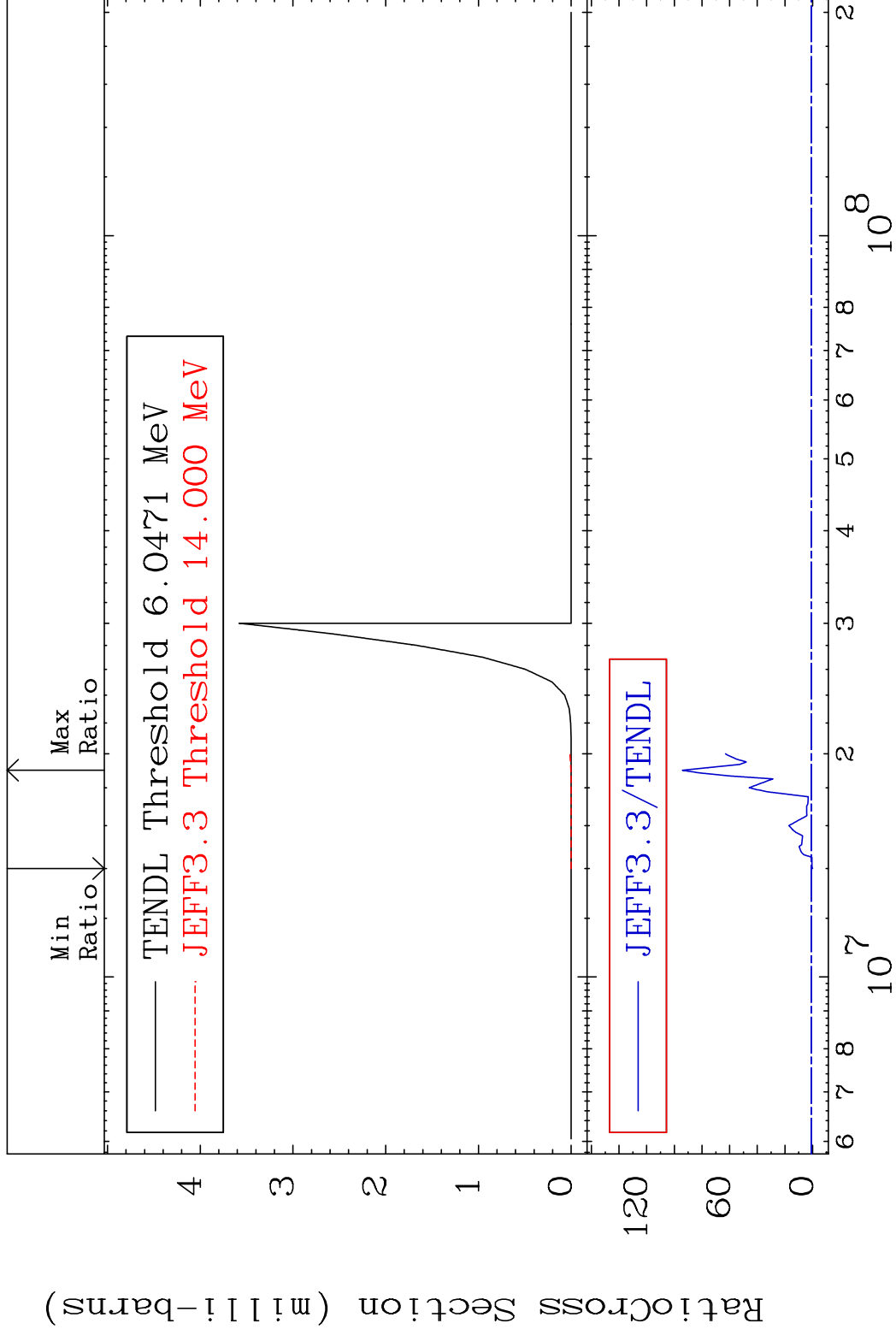
77-Ir-193

MAT 7731

77-Ir-193

(n,2n)  $\alpha$

Cross Section -100.0 To 9320. %



7

Incident Energy (eV)

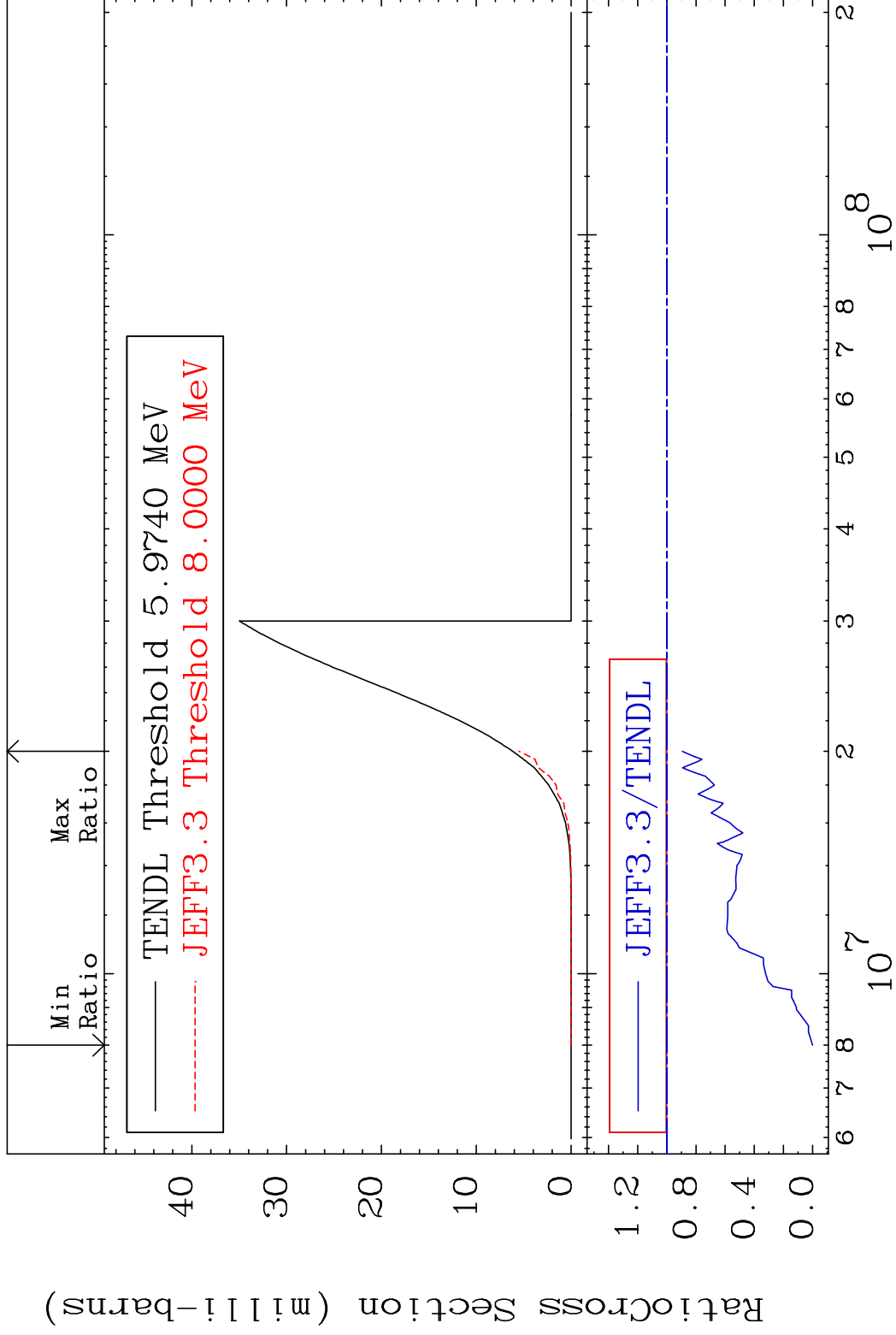
77-Ir-193

MAT 7731

(n, n') p

77-Ir-193

Cross Section -100.0 To -10.66%



8

Incident Energy (eV)

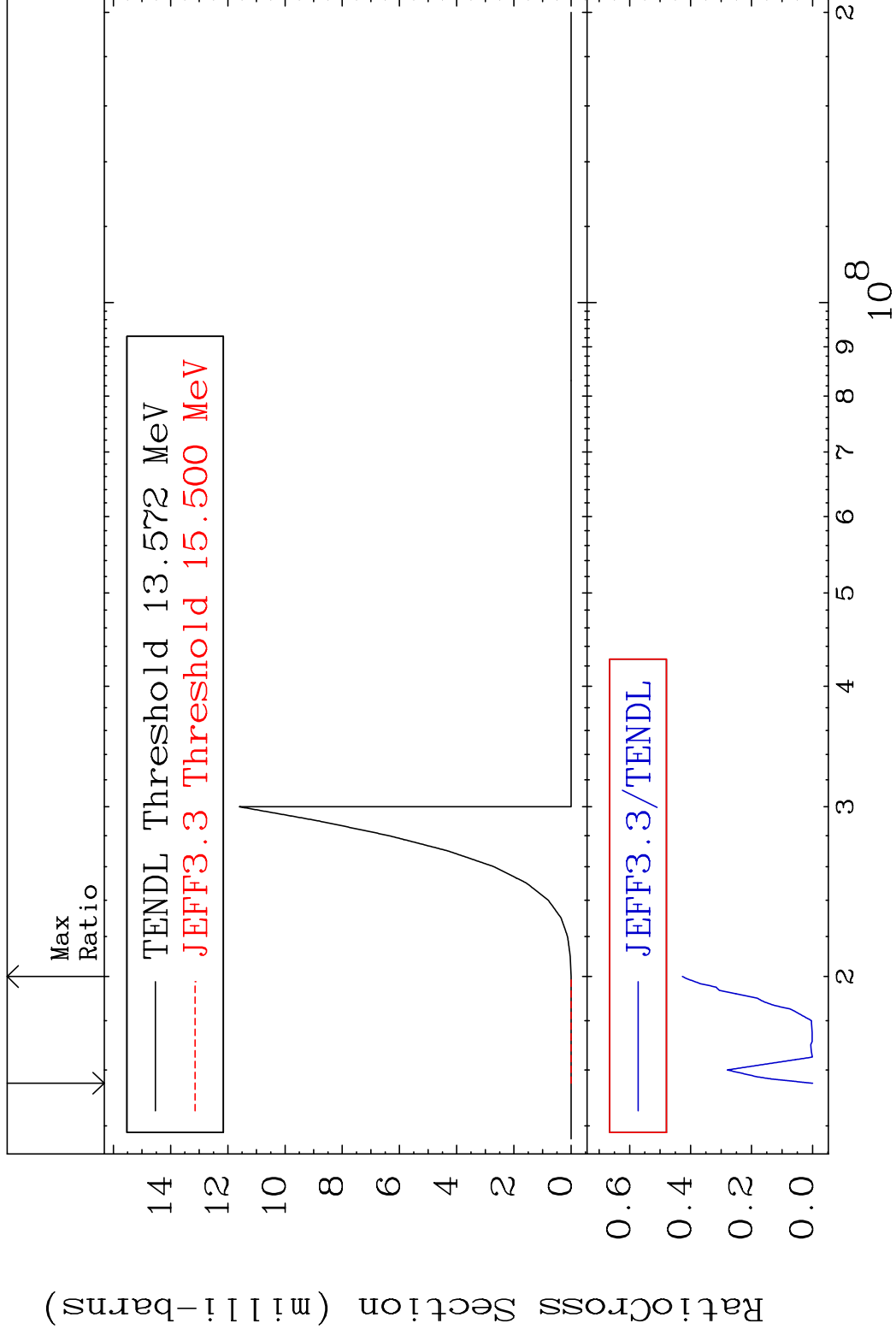
77-Ir-193

MAT 7731

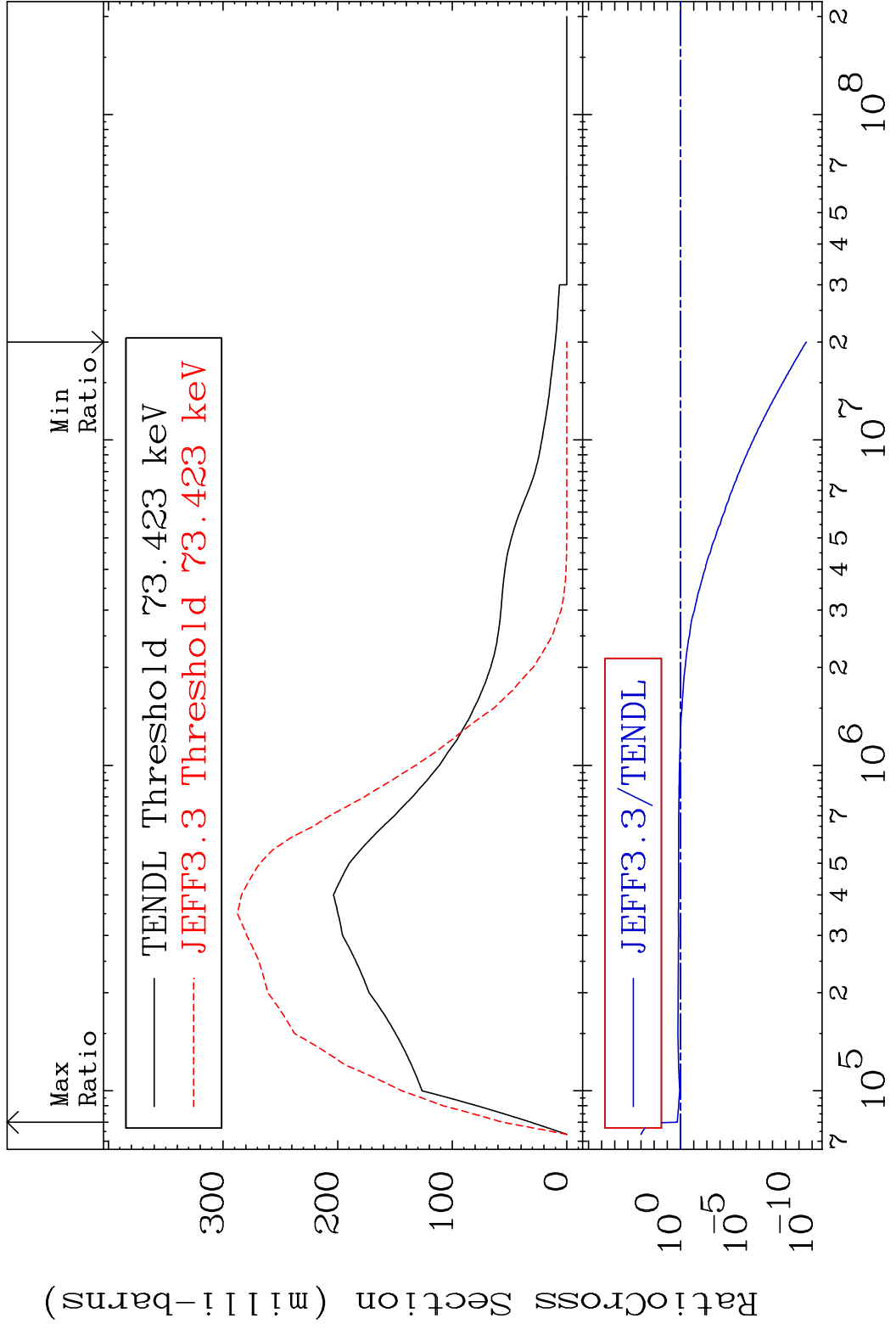
(n,2n) p

77-Ir-193

Cross Section -100.0 To -57.30%

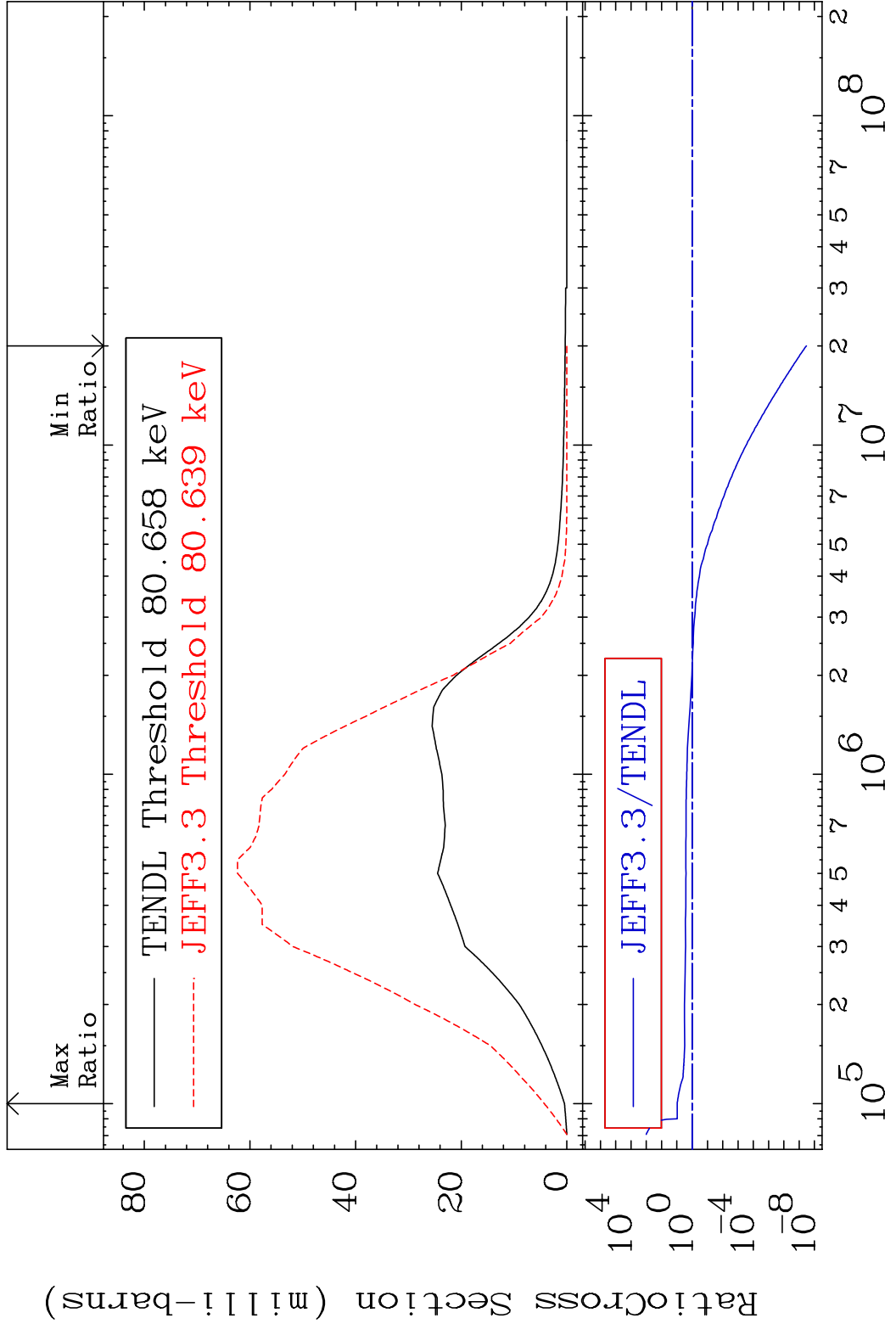


MAT 7731 MT= 51 (n, n') Level 77-Ir-193  
 Cross Section -100.0 To 78.77 %

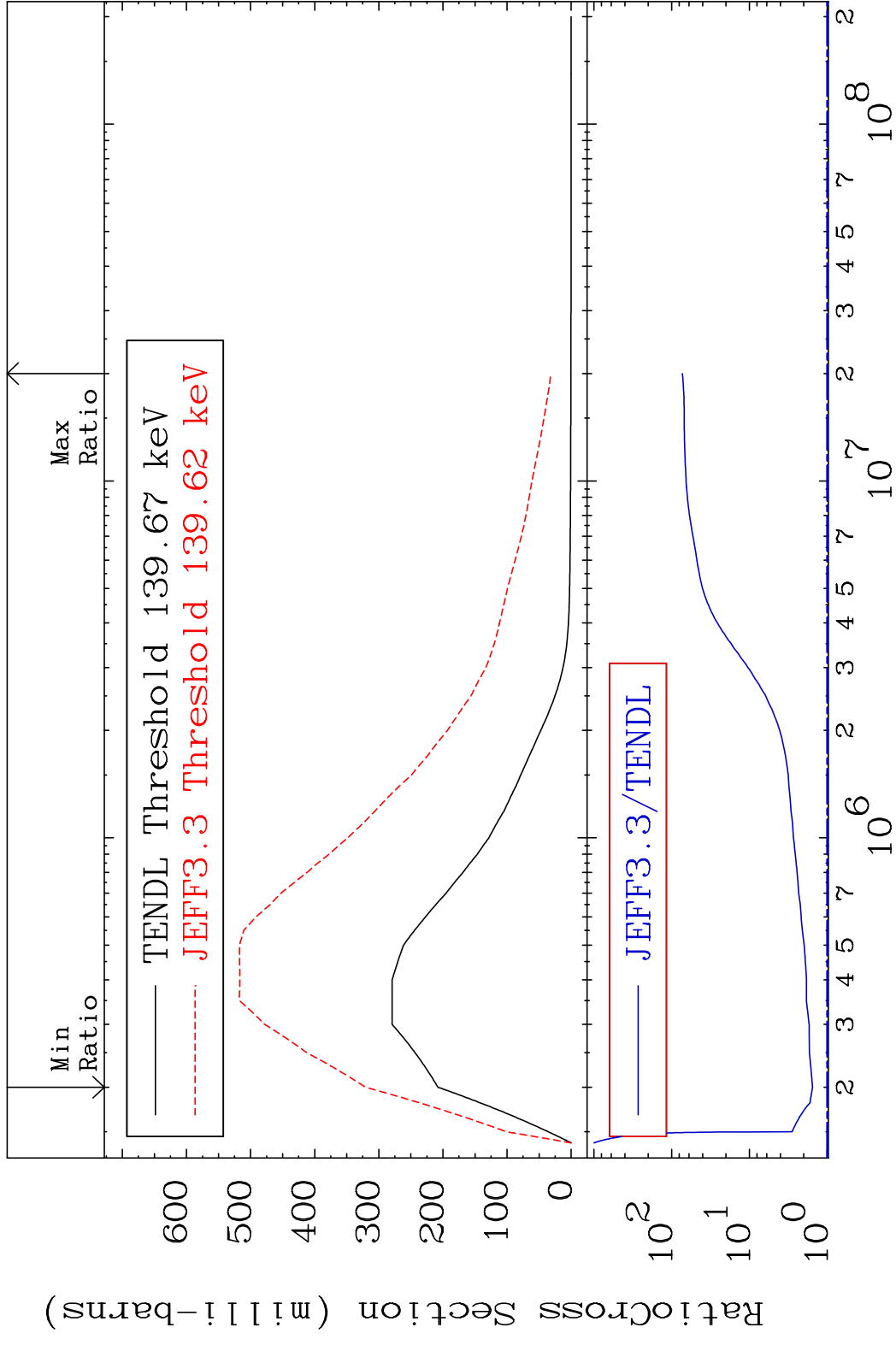


10 10 7 2 3 4 5 7 2 3 4 5 7 8 2  
 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>  
 77-Ir-193

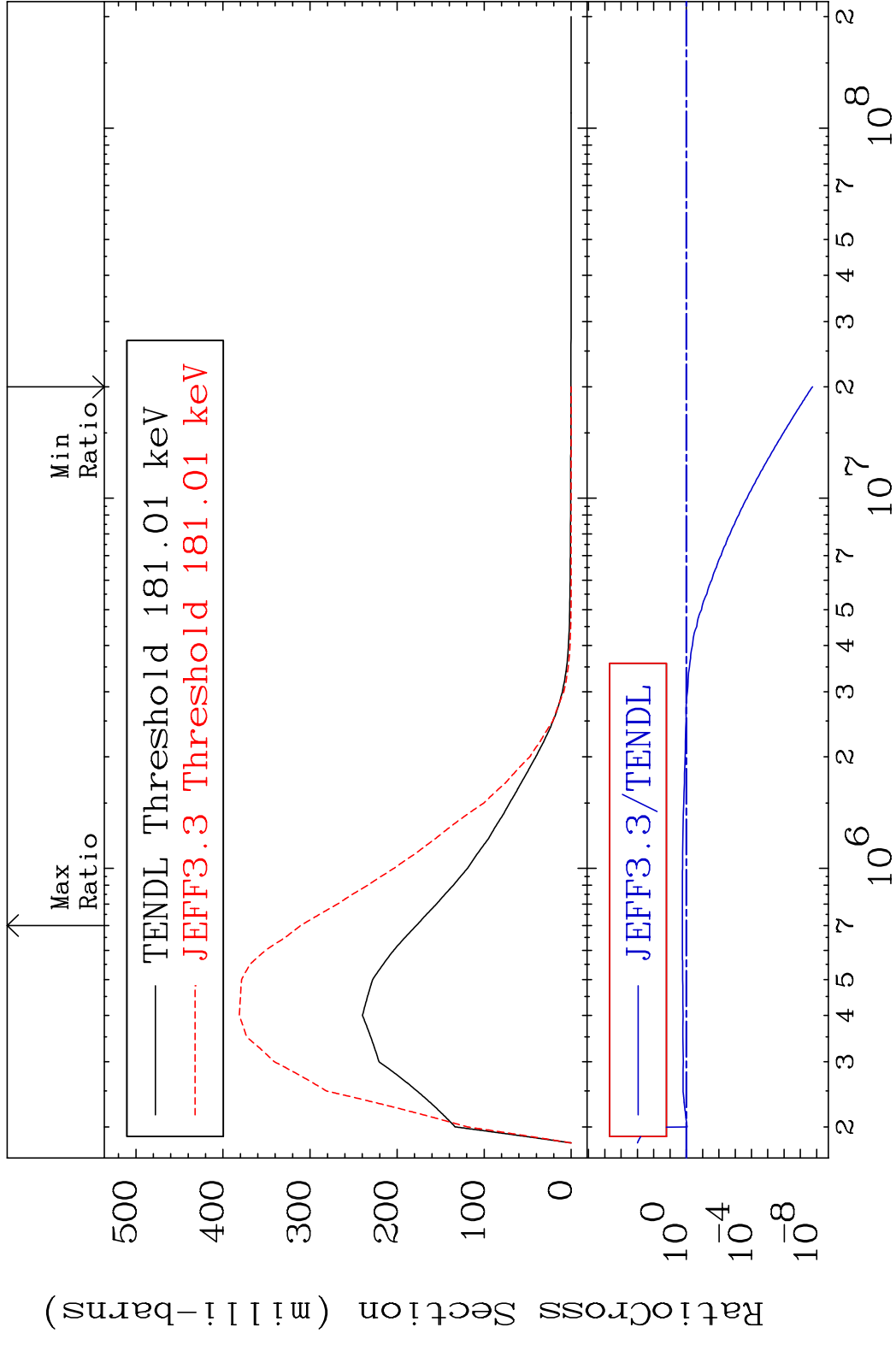
MAT 7731 MT= 52 (n,n') Level 77-Ir-193  
 Cross Section -100.0 To 852.8 %



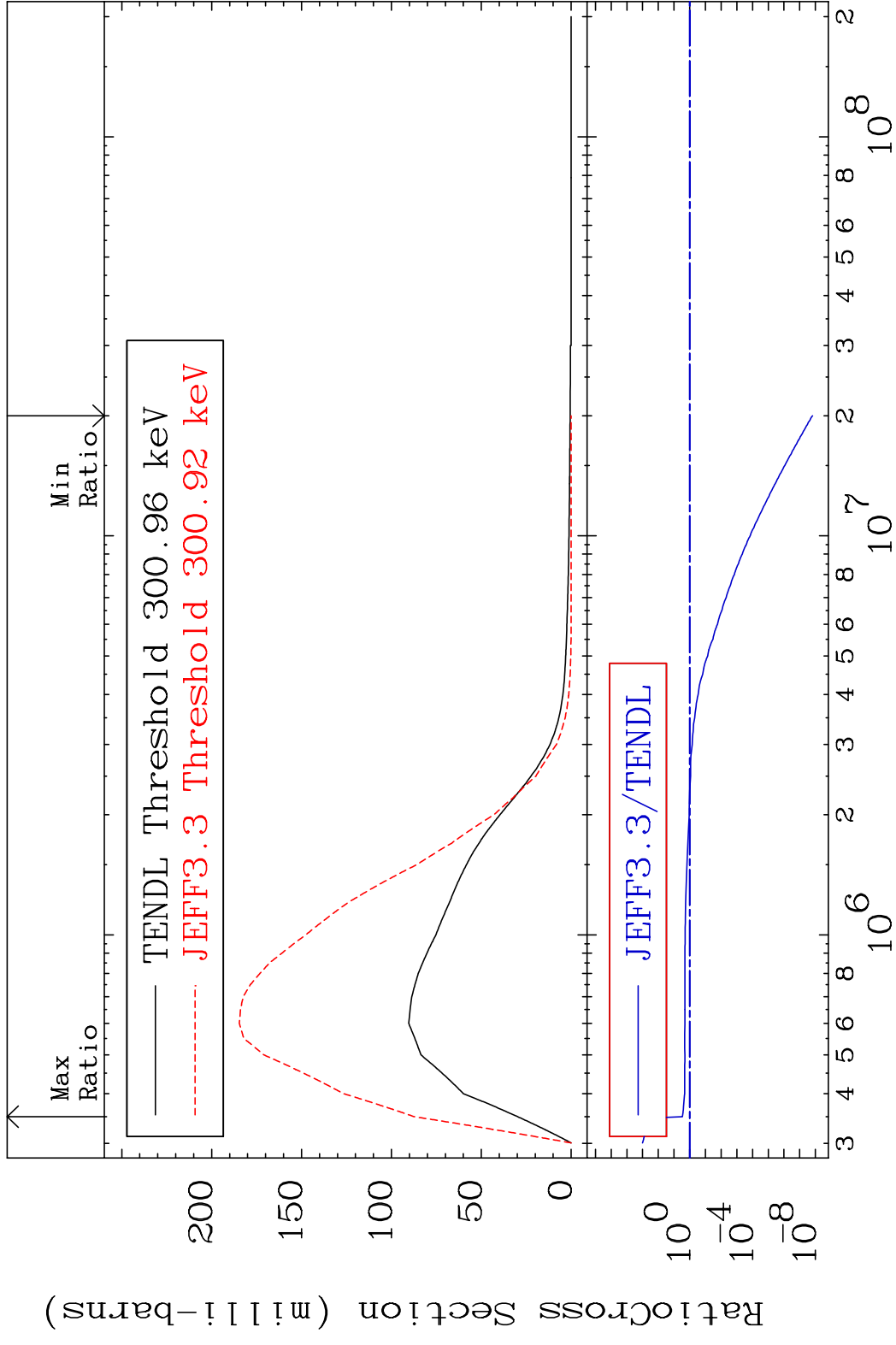
MAT 7731 MT= 53 (n, n') Level 77-Ir-193  
 Cross Section 54.36 To 7186. %



MAT 7731 MT= 54 (n,n') Level 77-Ir-193  
 Cross Section -100.0 To 74.80 %



MAT 7731 MT= 55 (n, n') Level 77-Ir-193  
 Cross Section -100.0 To 193.6 %

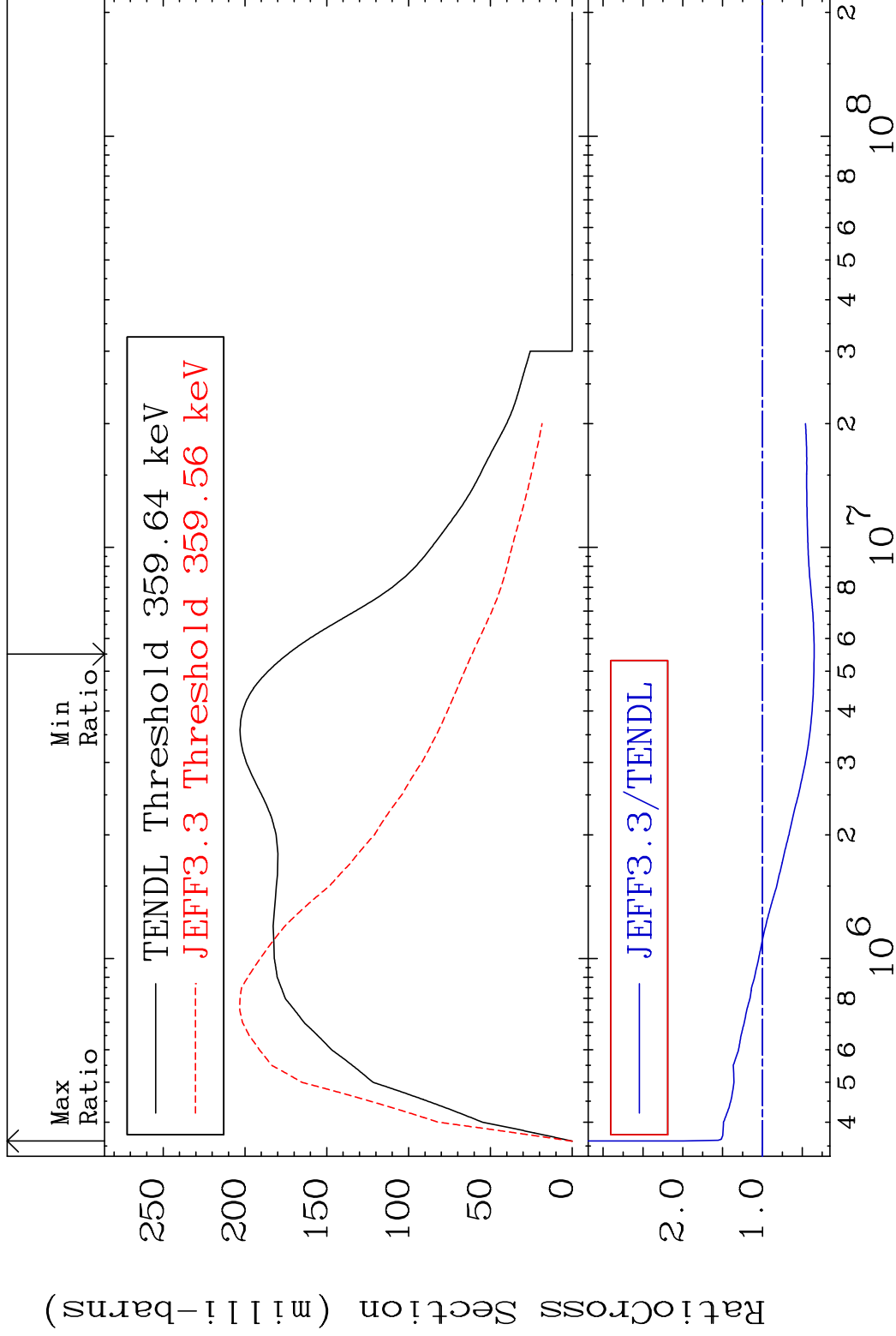


MAT 7731

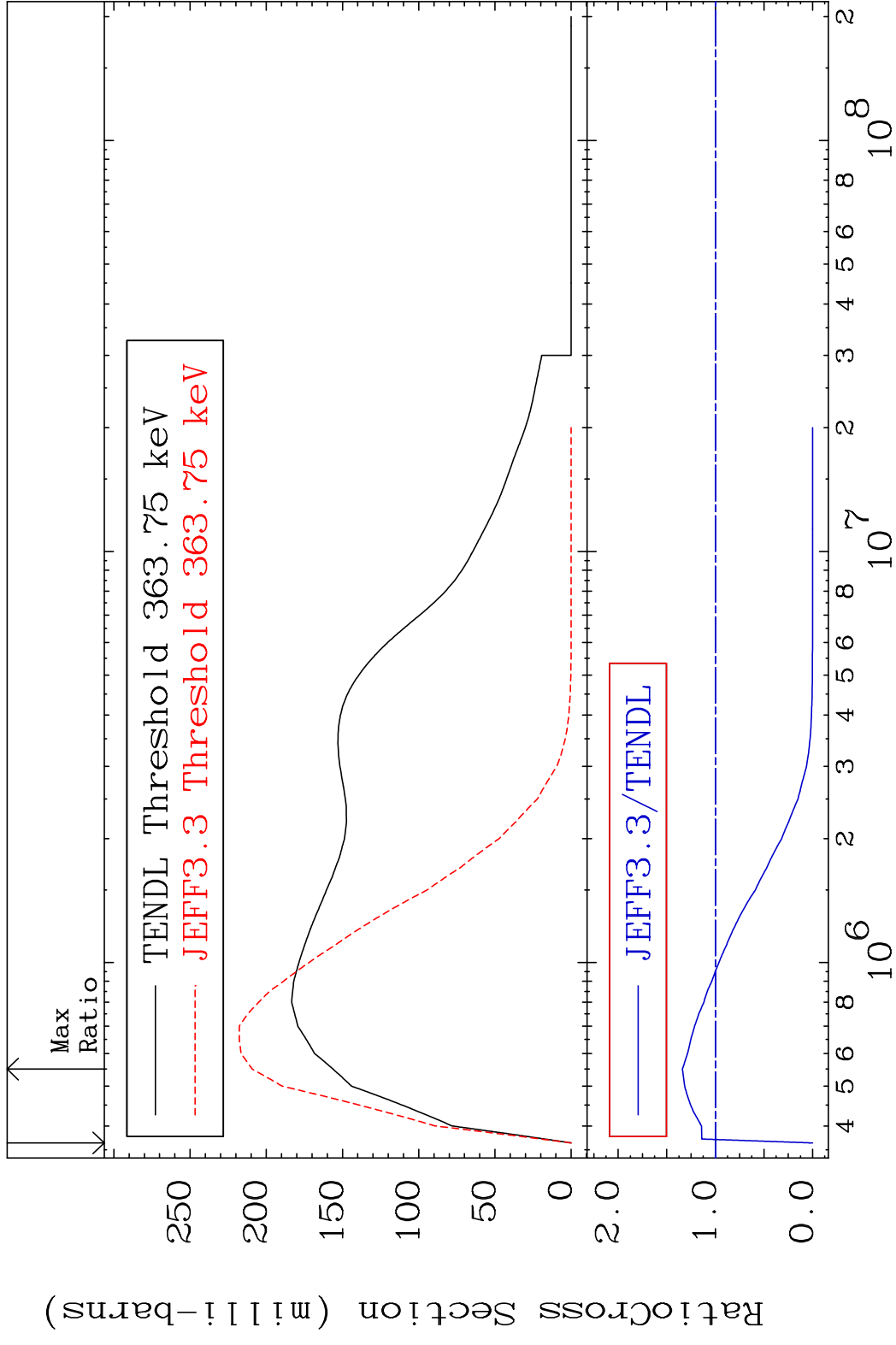
MT= 56 (n,n') Level

77-Ir-193

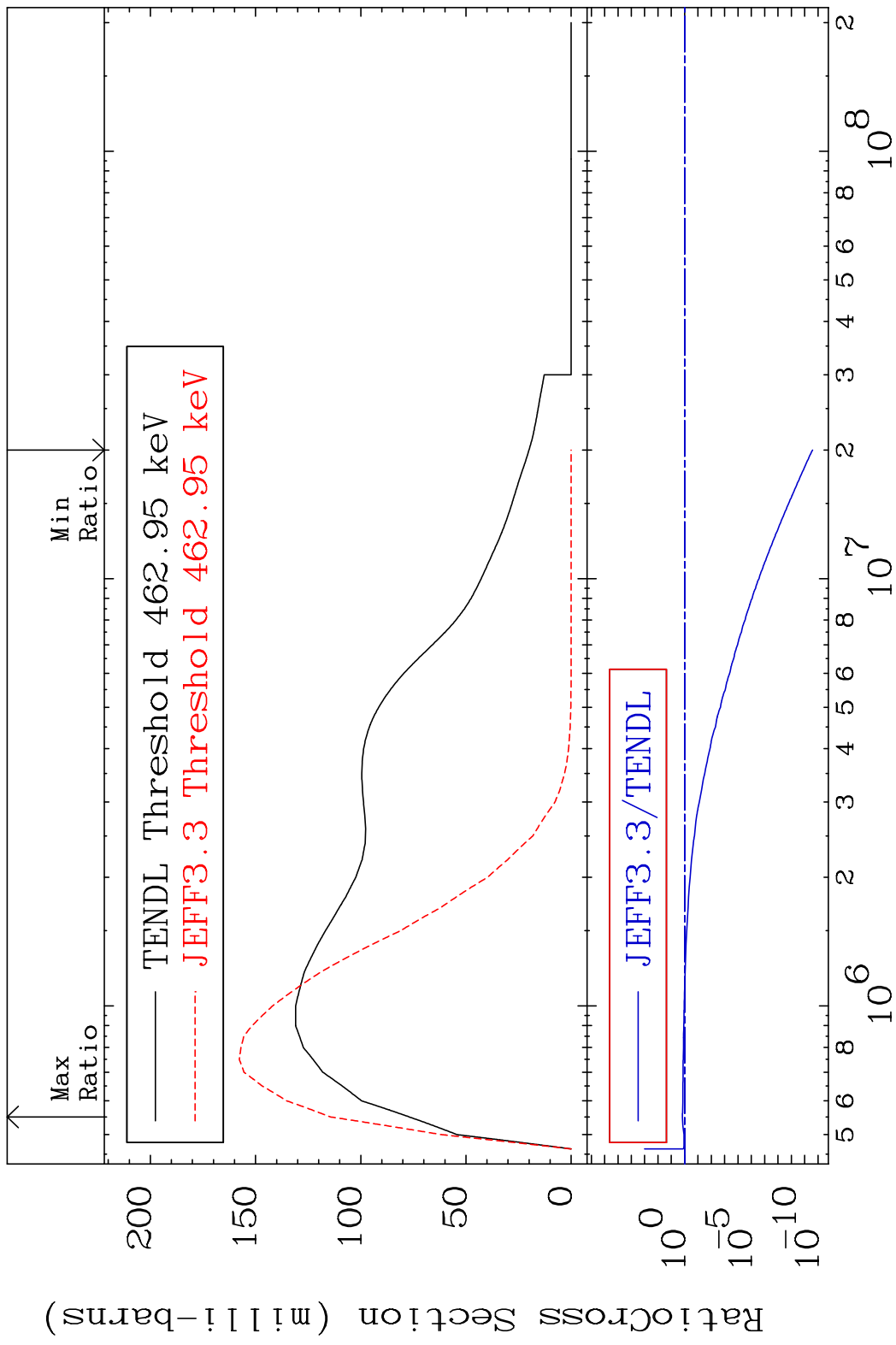
Cross Section -64.78 To 98.93 %



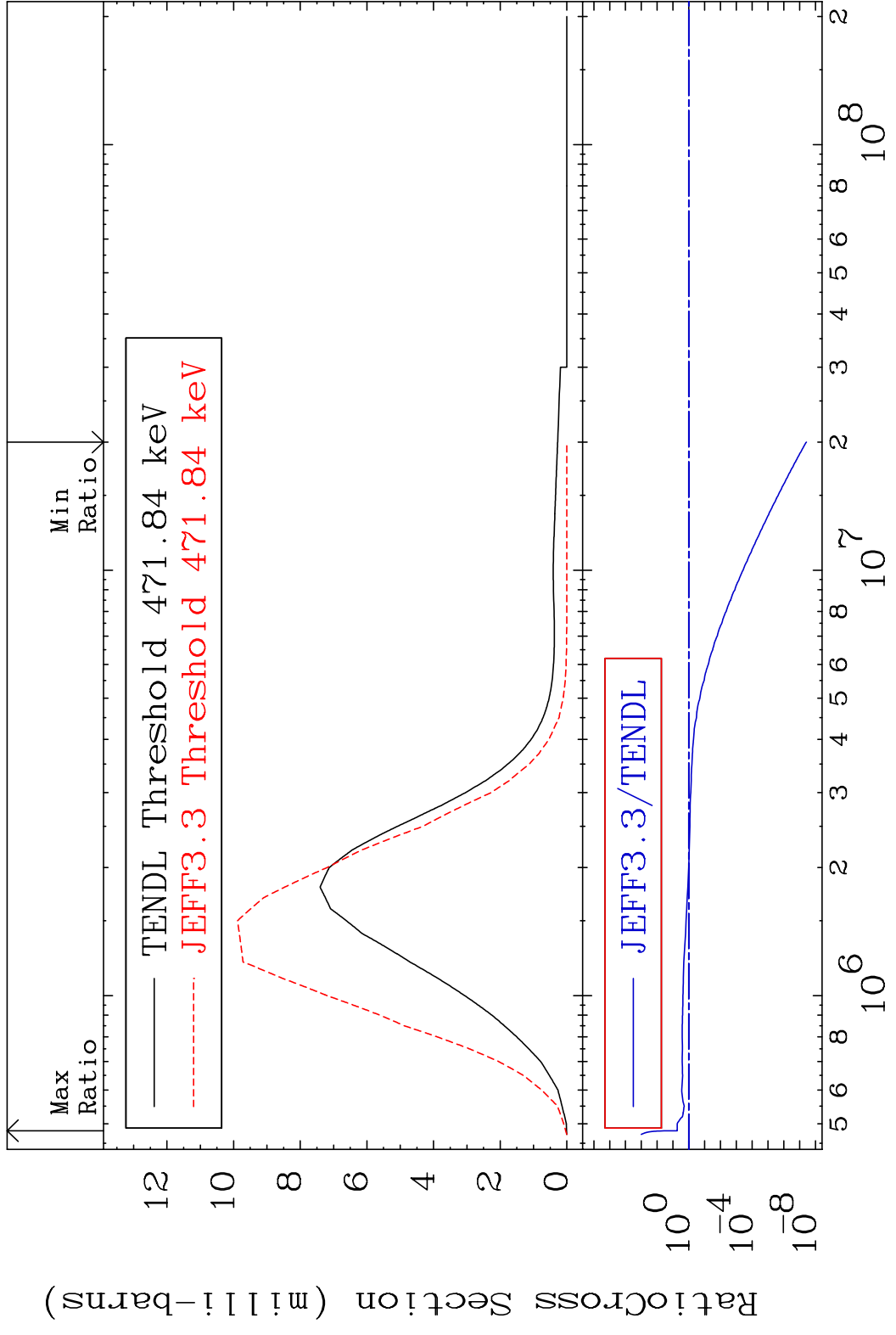
MAT 7731 MT= 57 (n, n') Level 77-Ir-193  
 Cross Section -100.0 To 33.95 %



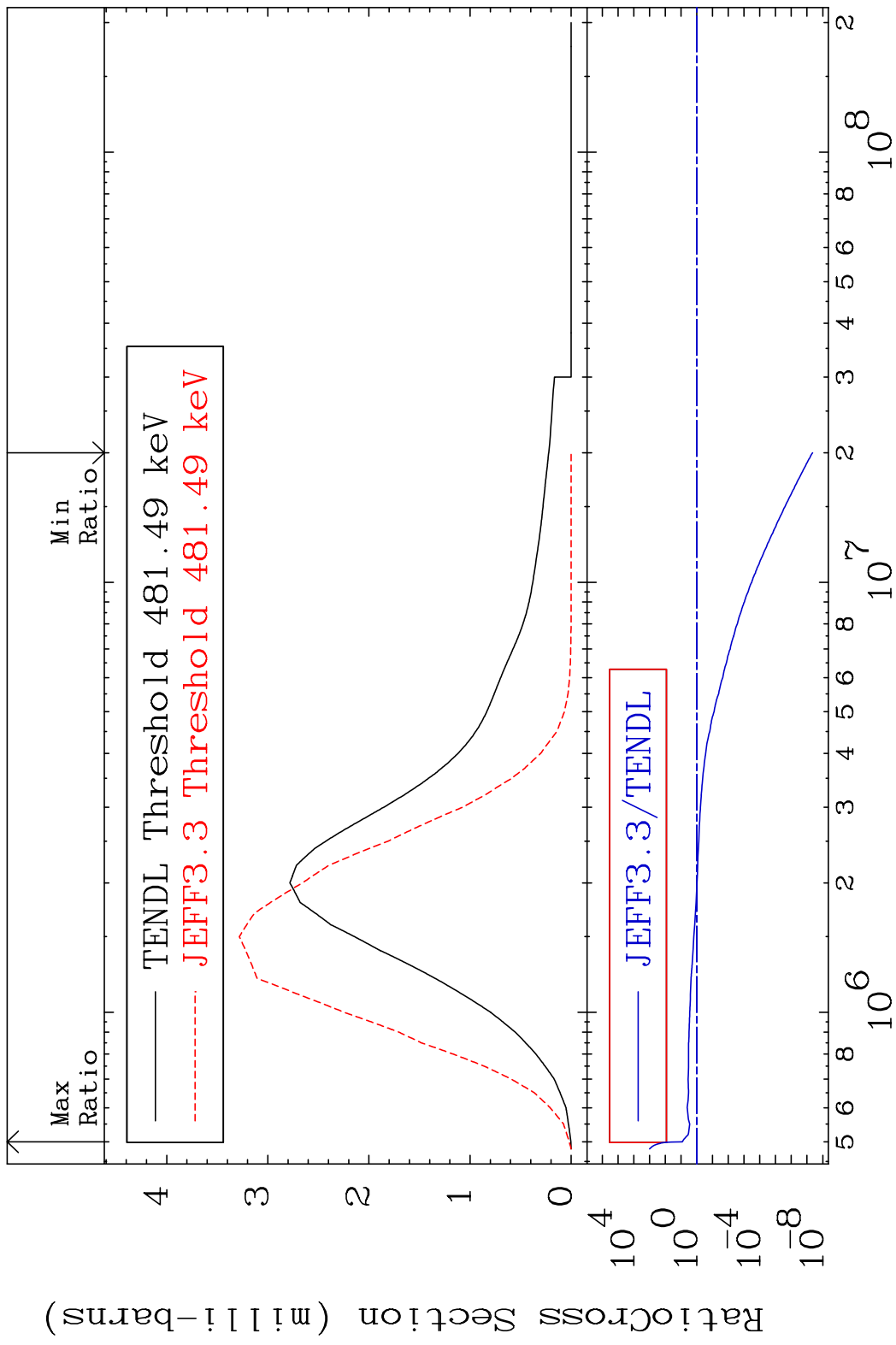
MAT 7731 MT= 58 (n, n') Level 77-Ir-193  
 Cross Section -100.0 To 48.61 %



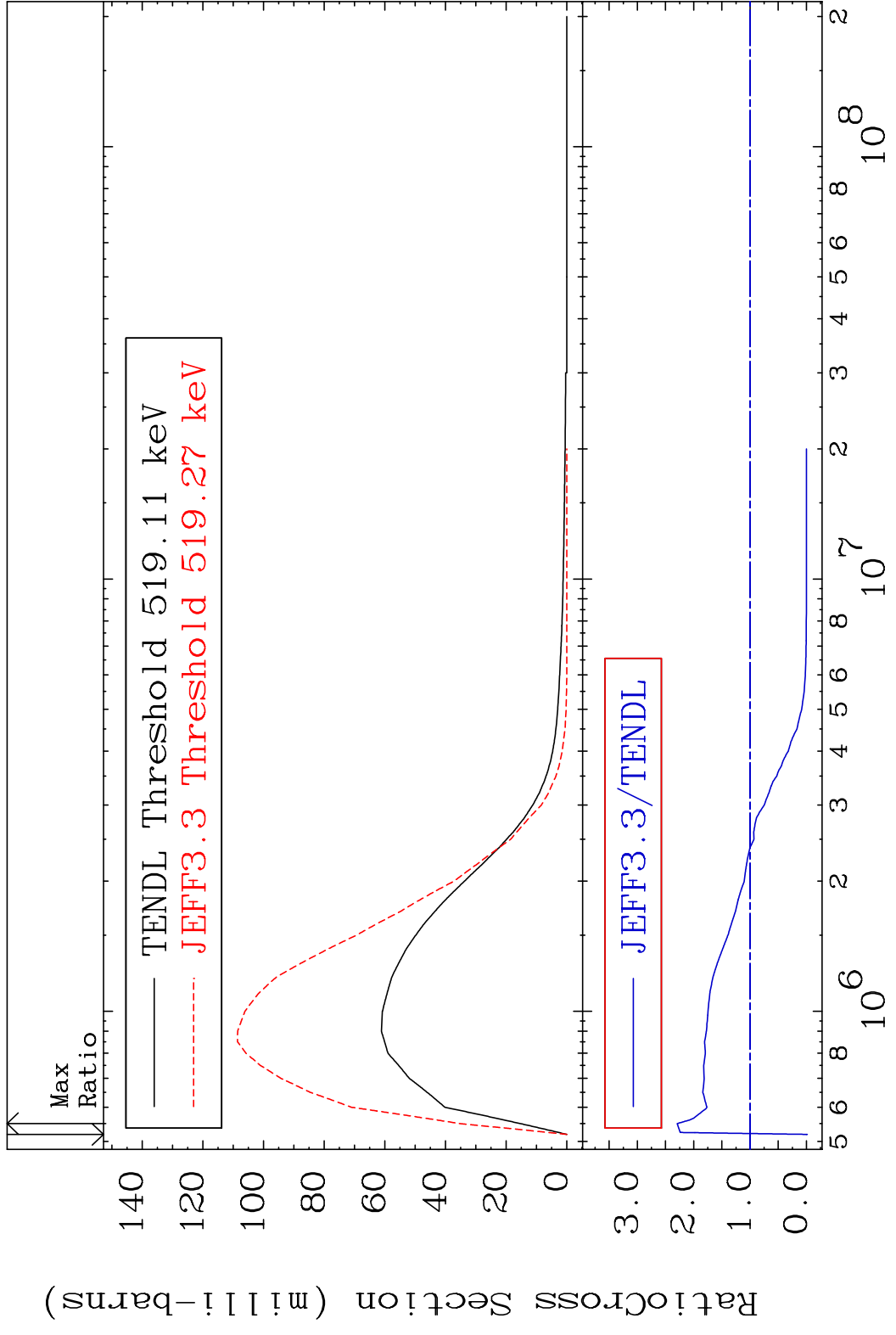
MAT 7731 MT= 59 (n, n') Level 77-Ir-193  
 Cross Section -100.0 To 443.6 %



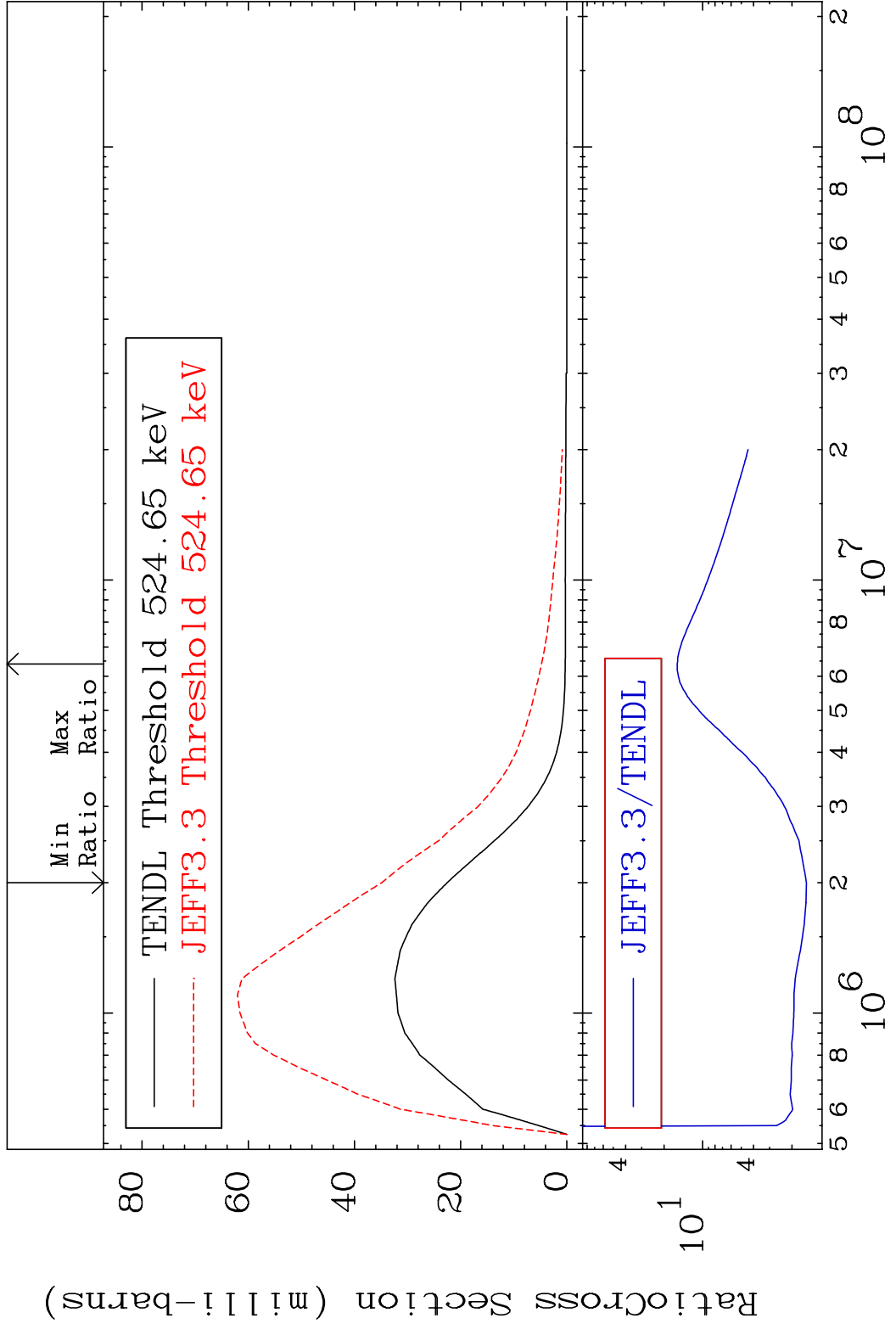
MAT 7731 MT= 60 (n, n') Level 77-Ir-193  
 Cross Section -100.0 To 723.7 %



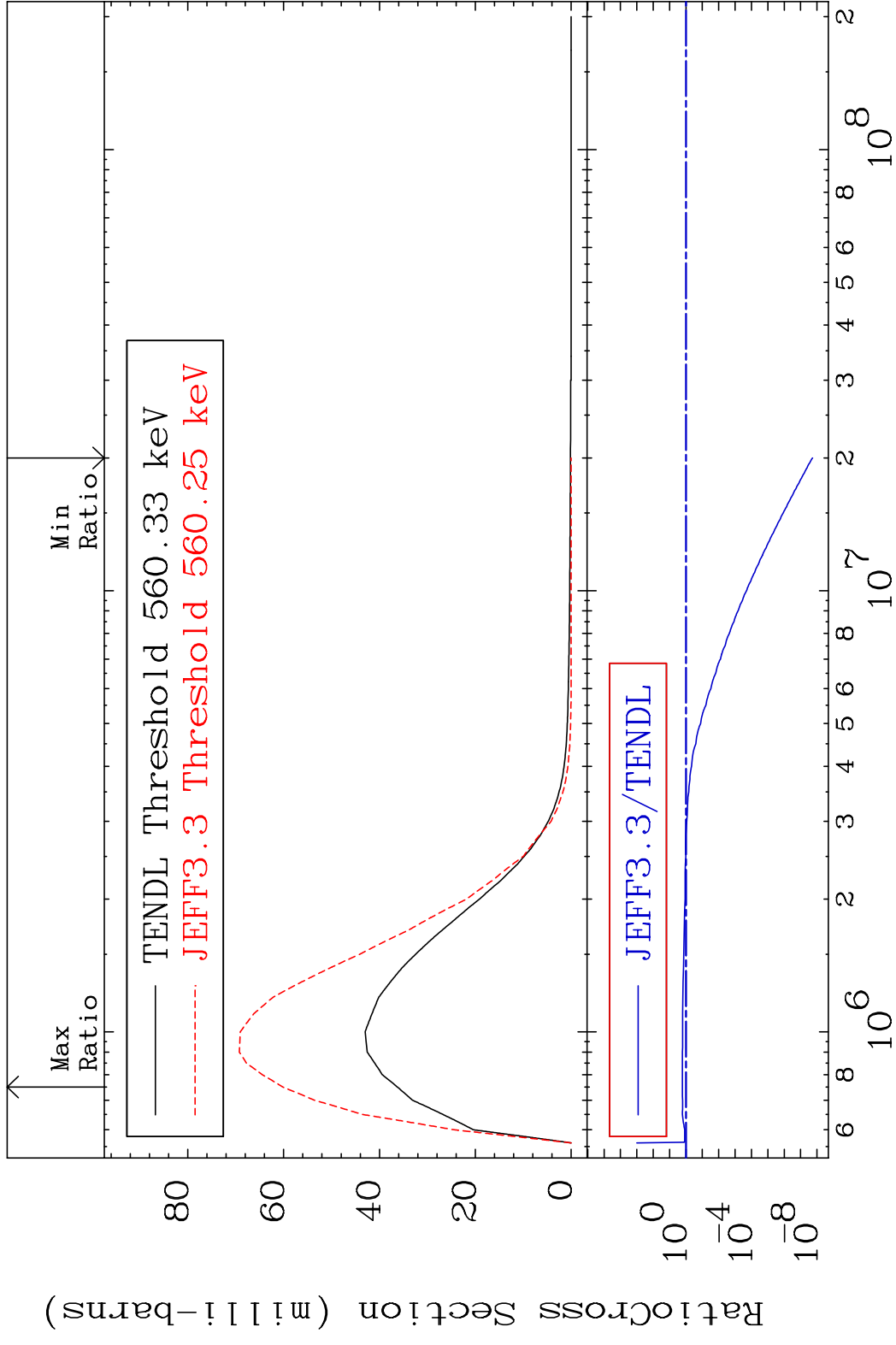
MAT 7731 MT= 61 (n, n') Level 77-Ir-193  
 Cross Section -100.0 To 129.3 %



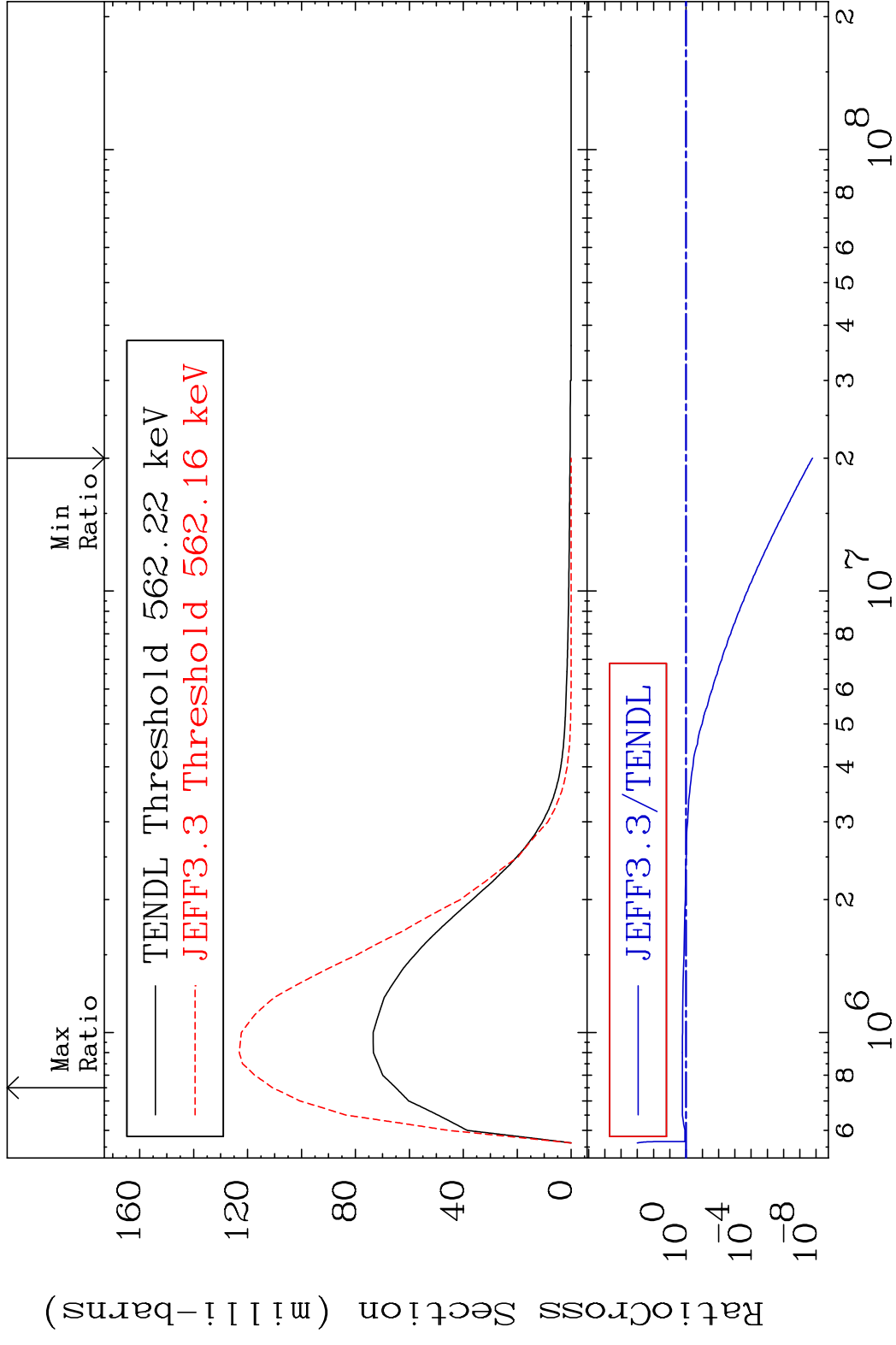
MAT 7731 MT= 62 (n, n') Level 77-Ir-193  
 Cross Section 54.49 To 1482. %



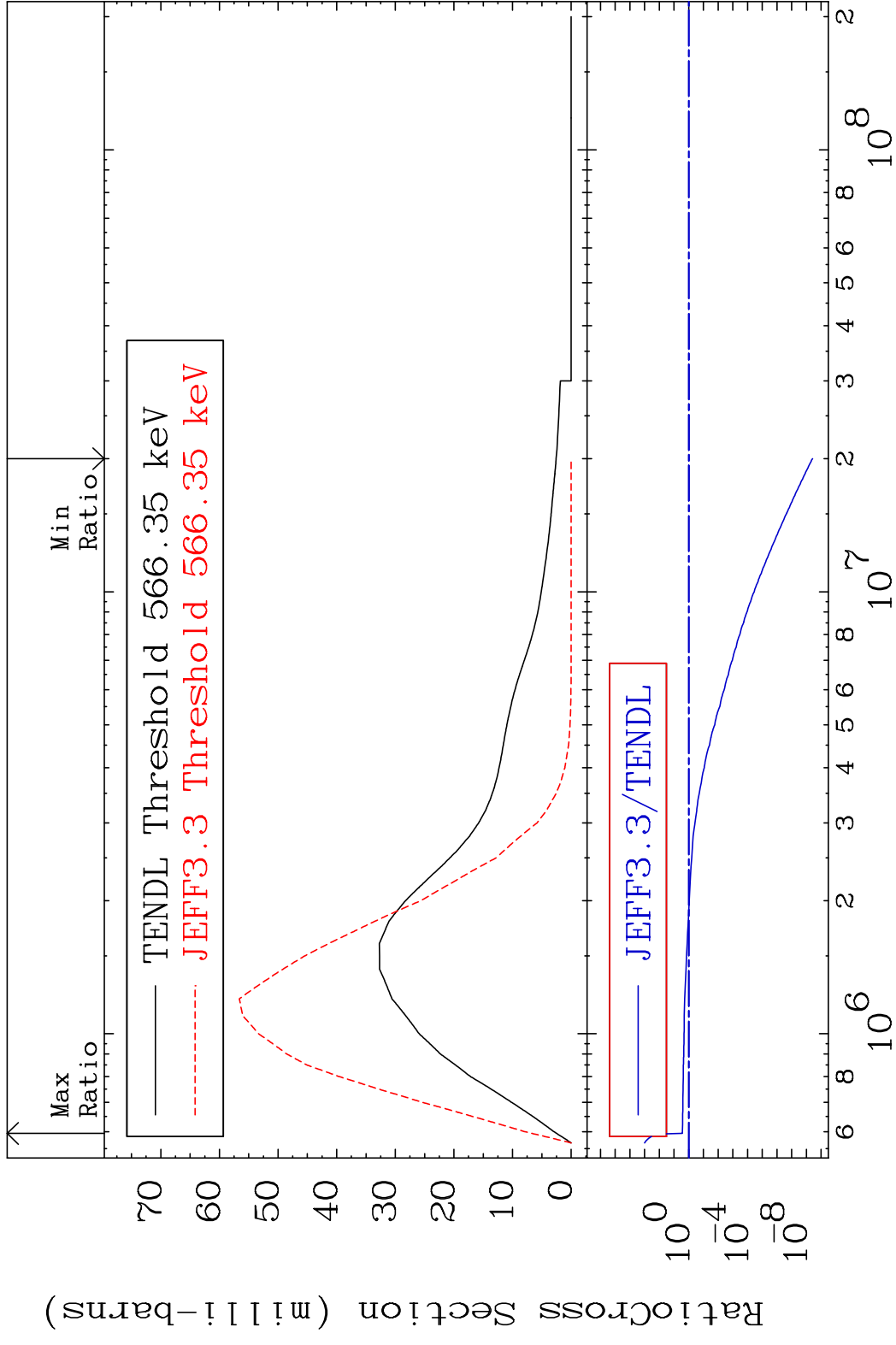
MAT 7731 MT= 63 (n, n') Level 77-Ir-193  
 Cross Section -100.0 To 65.86 %



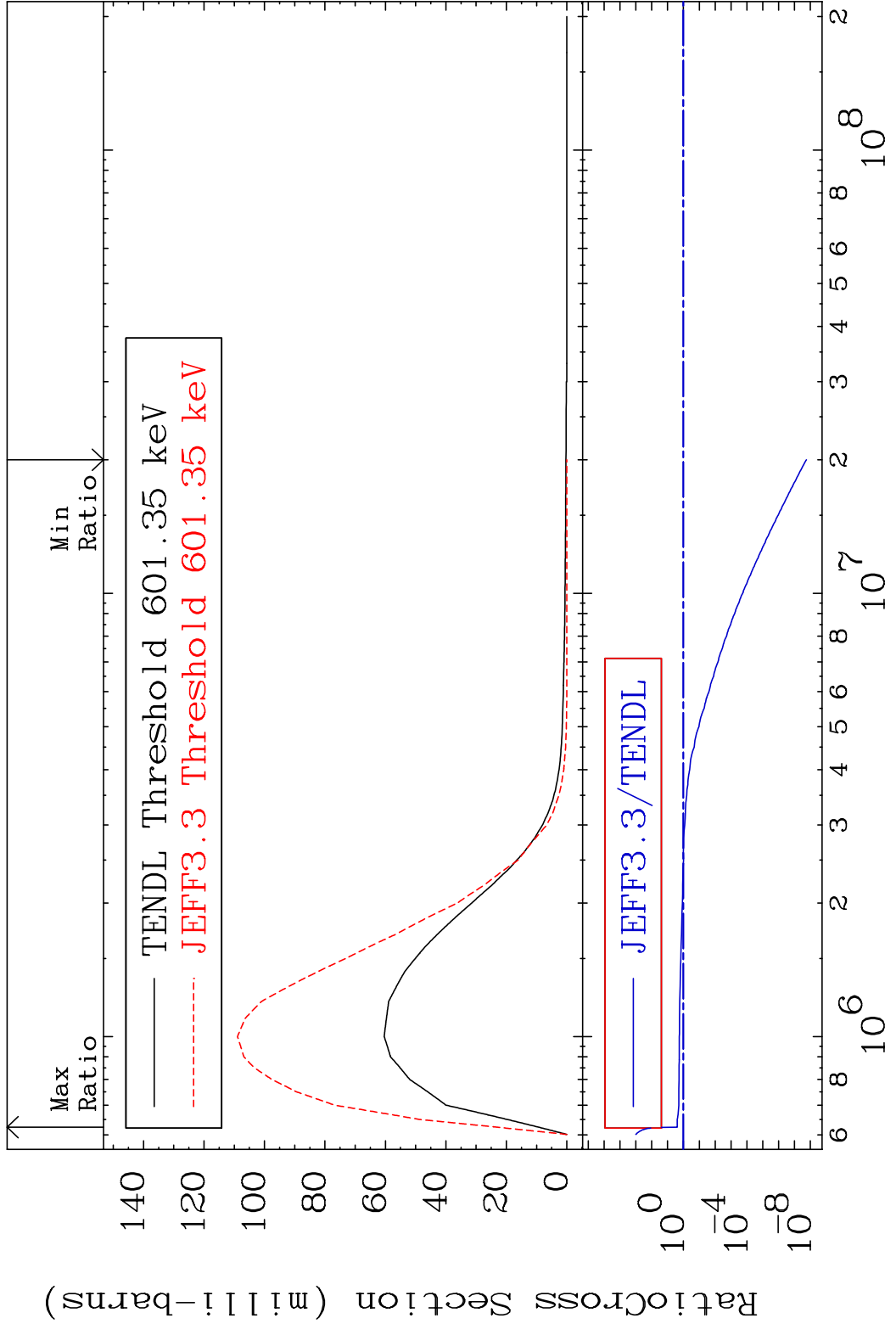
MAT 7731      MT= 64 (n, n') Level      77-Ir-193  
 Cross Section    -100.0 To 70.20 %



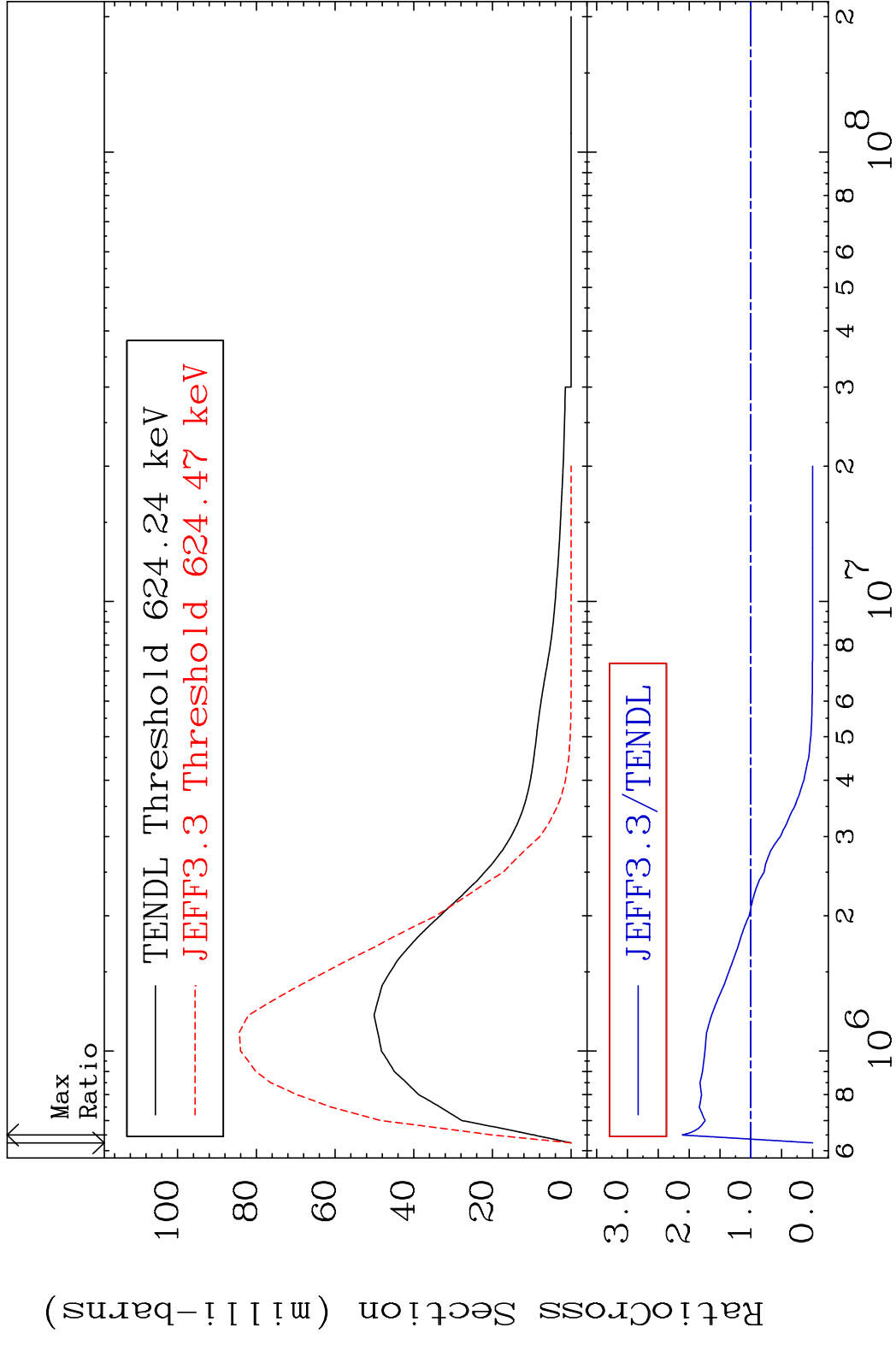
MAT 7731 MT= 65 (n, n') Level 77-Ir-193  
 Cross Section -100.0 To 169.5 %



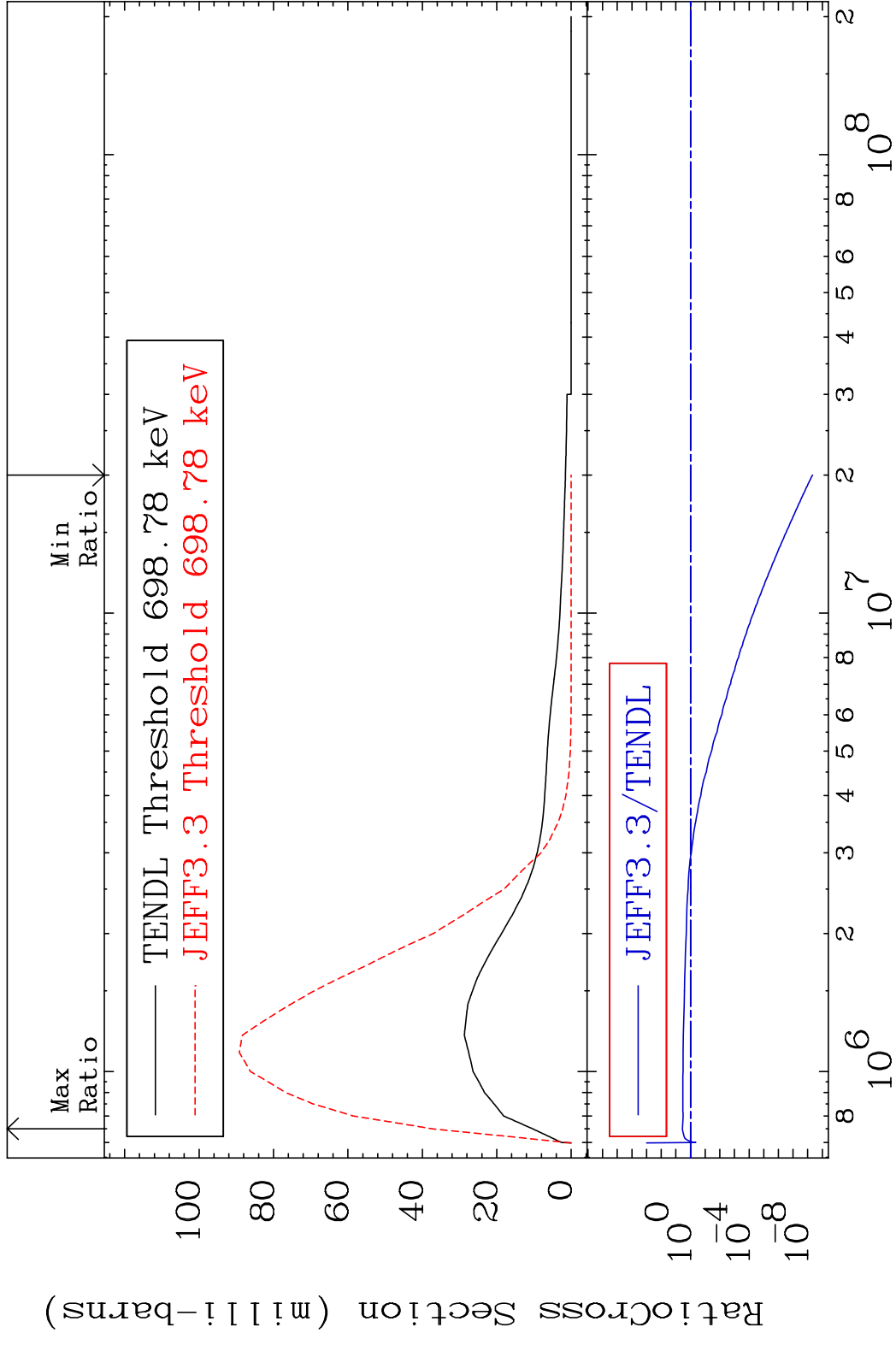
MAT 7731 MT= 66 (n, n') Level 77-Ir-193  
 Cross Section -100.0 To 147.5 %



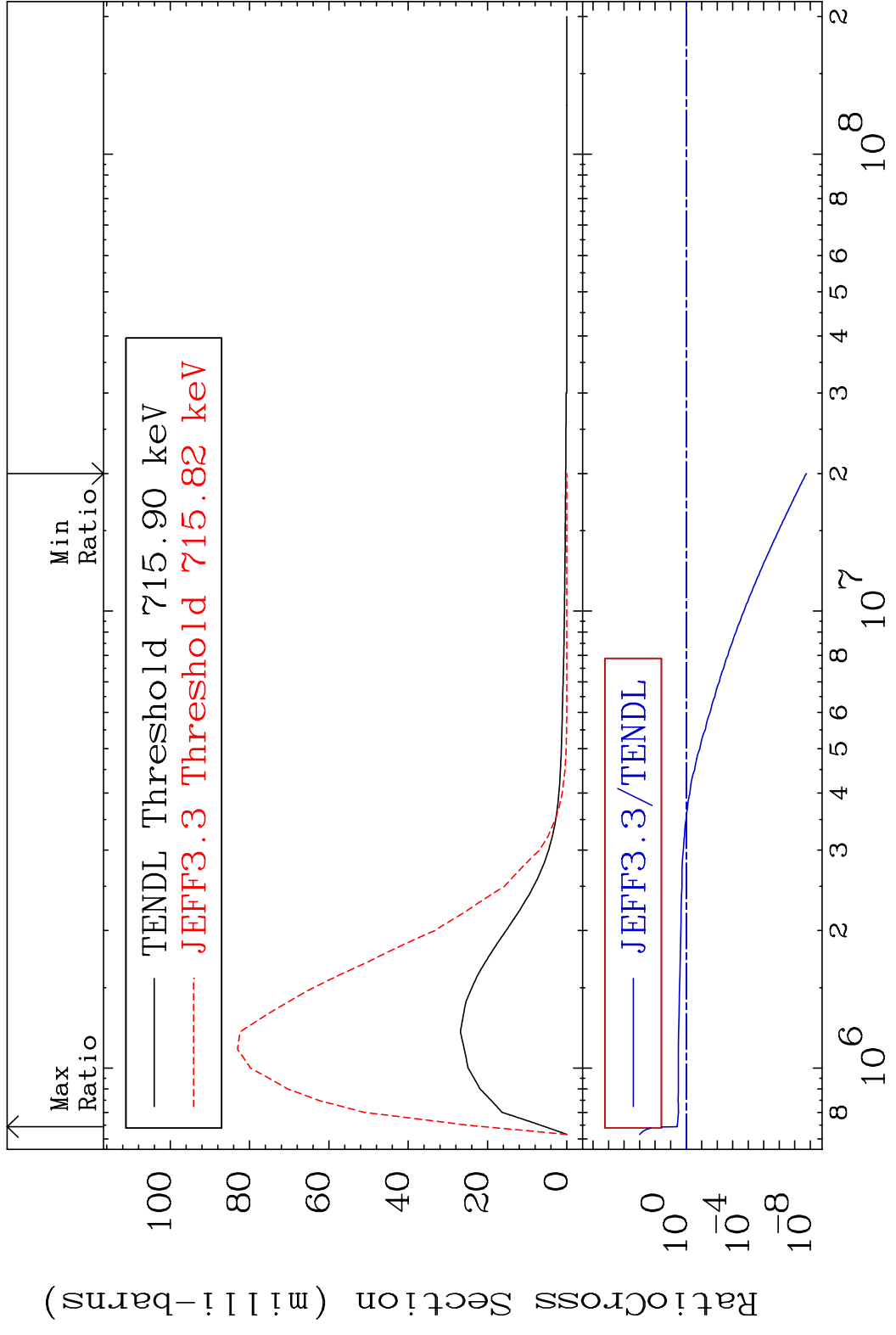
MAT 7731      MT= 67 (n,n') Level      77-Ir-193  
 Cross Section    -100.0 To 111.0 %



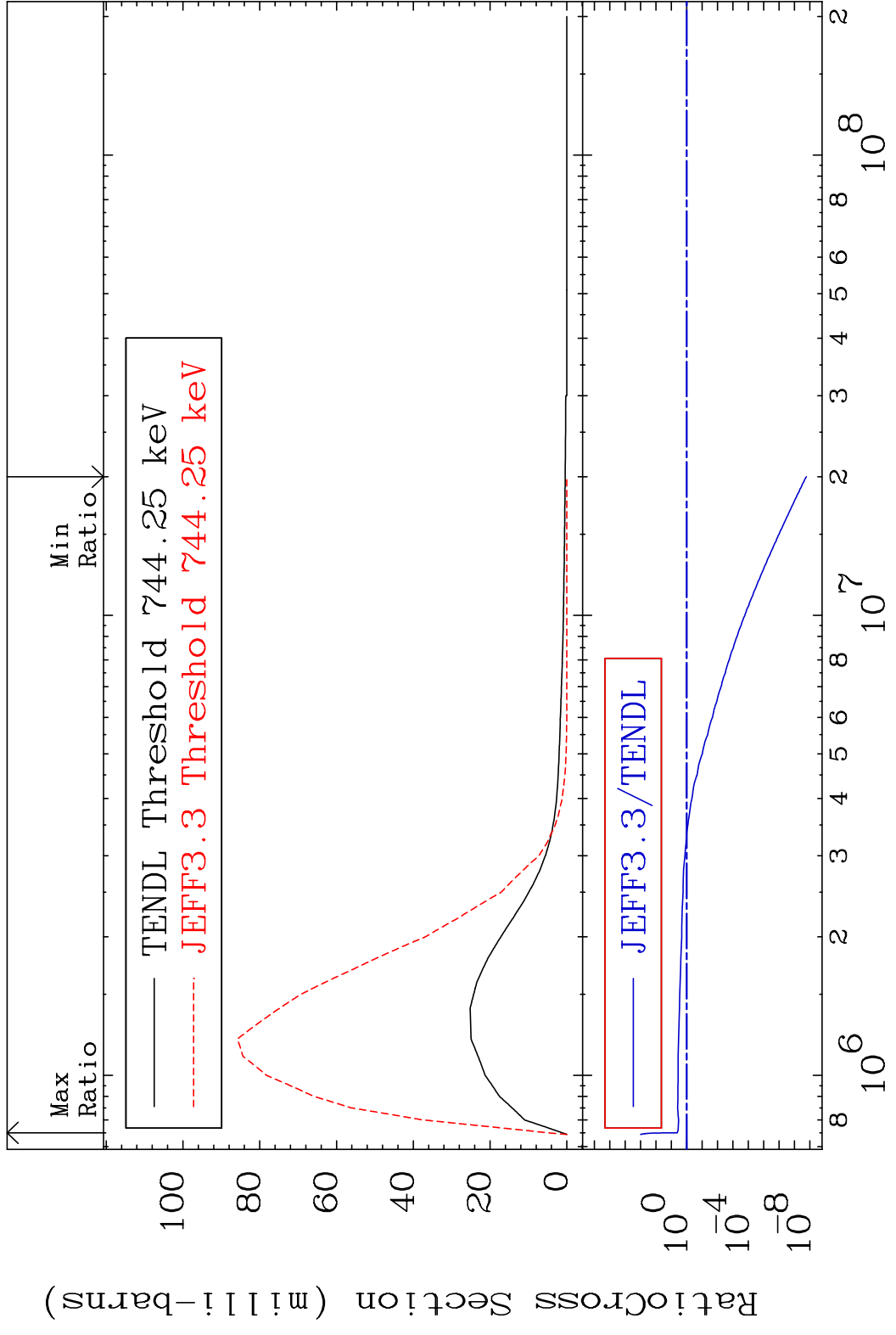
MAT 7731 MT= 68 (n, n') Level 77-Ir-193  
 Cross Section -100.0 To 259.7 %



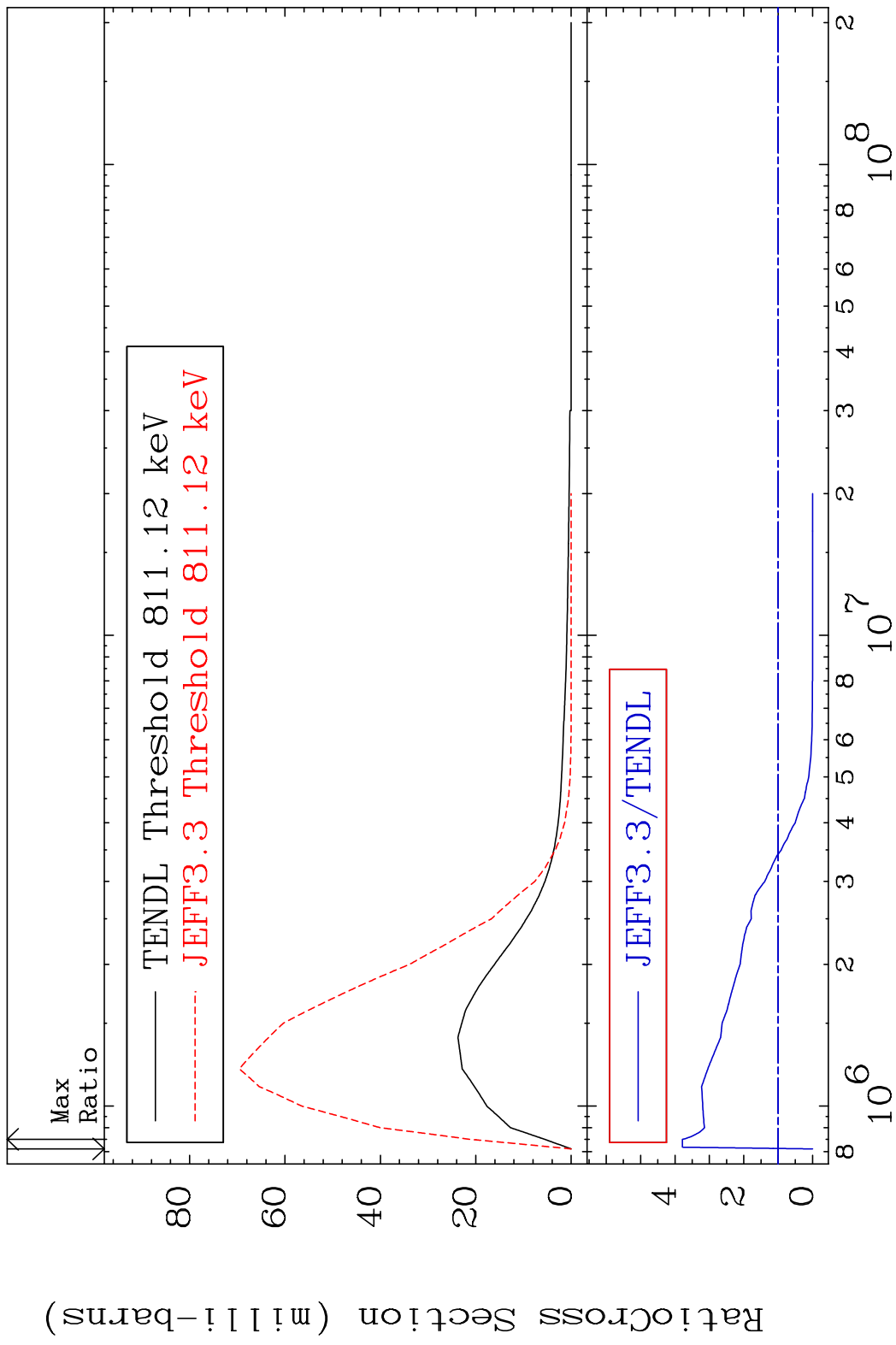
MAT 7731 MT= 69 (n, n') Level 77-Ir-193  
 Cross Section -100.0 To 279.5 %



MAT 7731 MT= 70 (n, n') Level 77-Ir-193  
 Cross Section -100.0 To 318.4 %

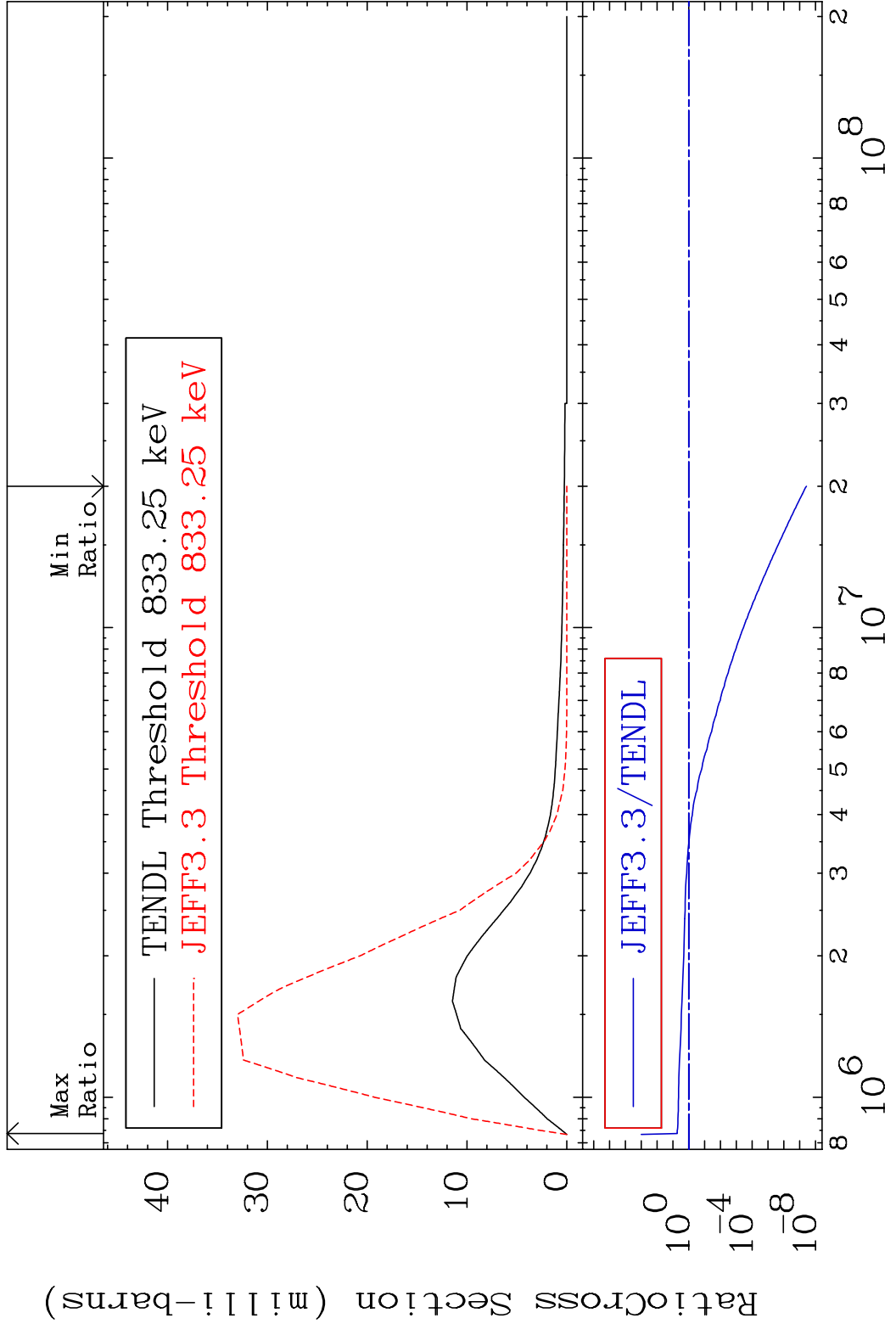


MAT 7731      MT= 71 (n, n') Level      77-Ir-193  
 Cross Section    -100.0 To 278.6 %

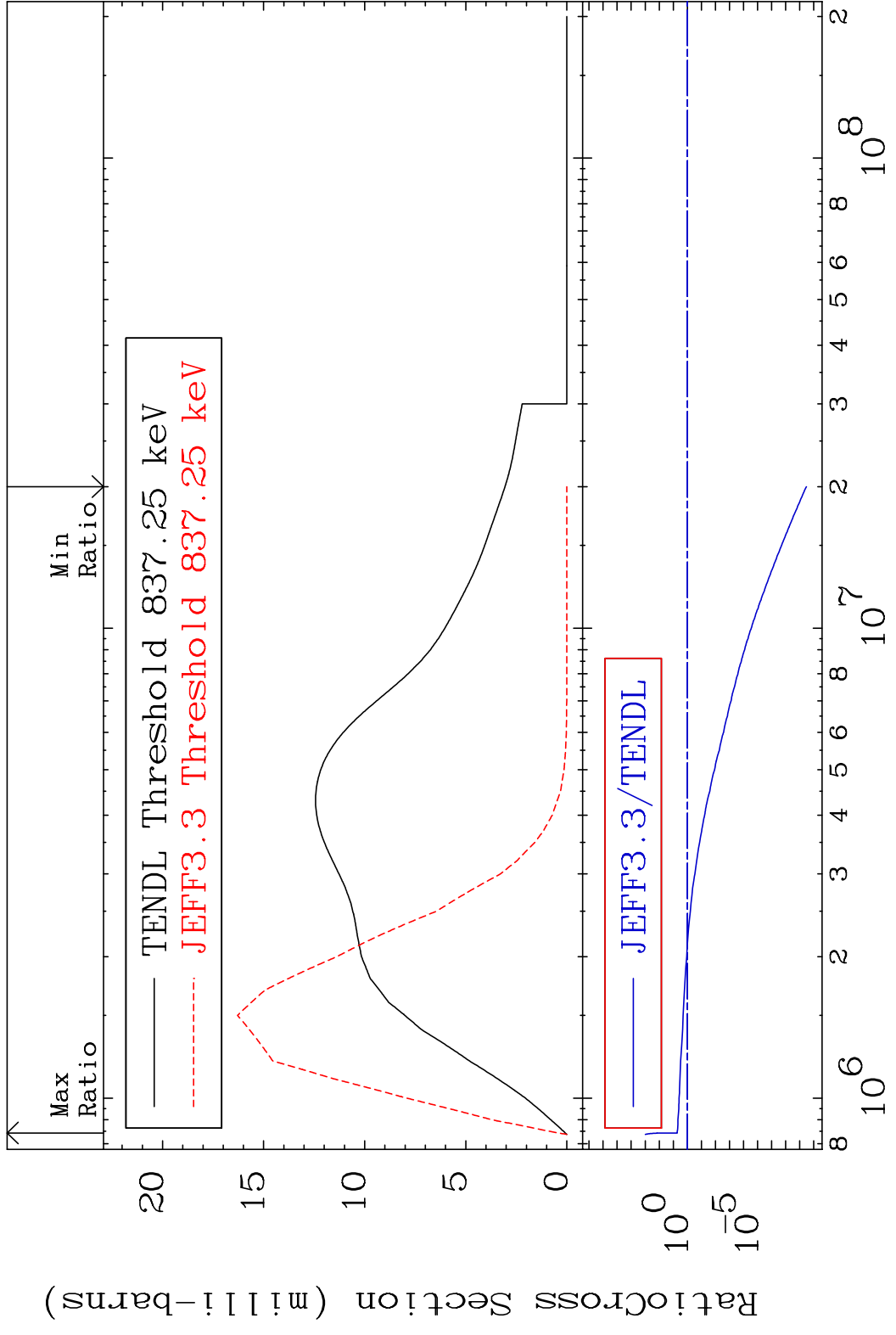


30      Incident Energy (eV)      77-Ir-193

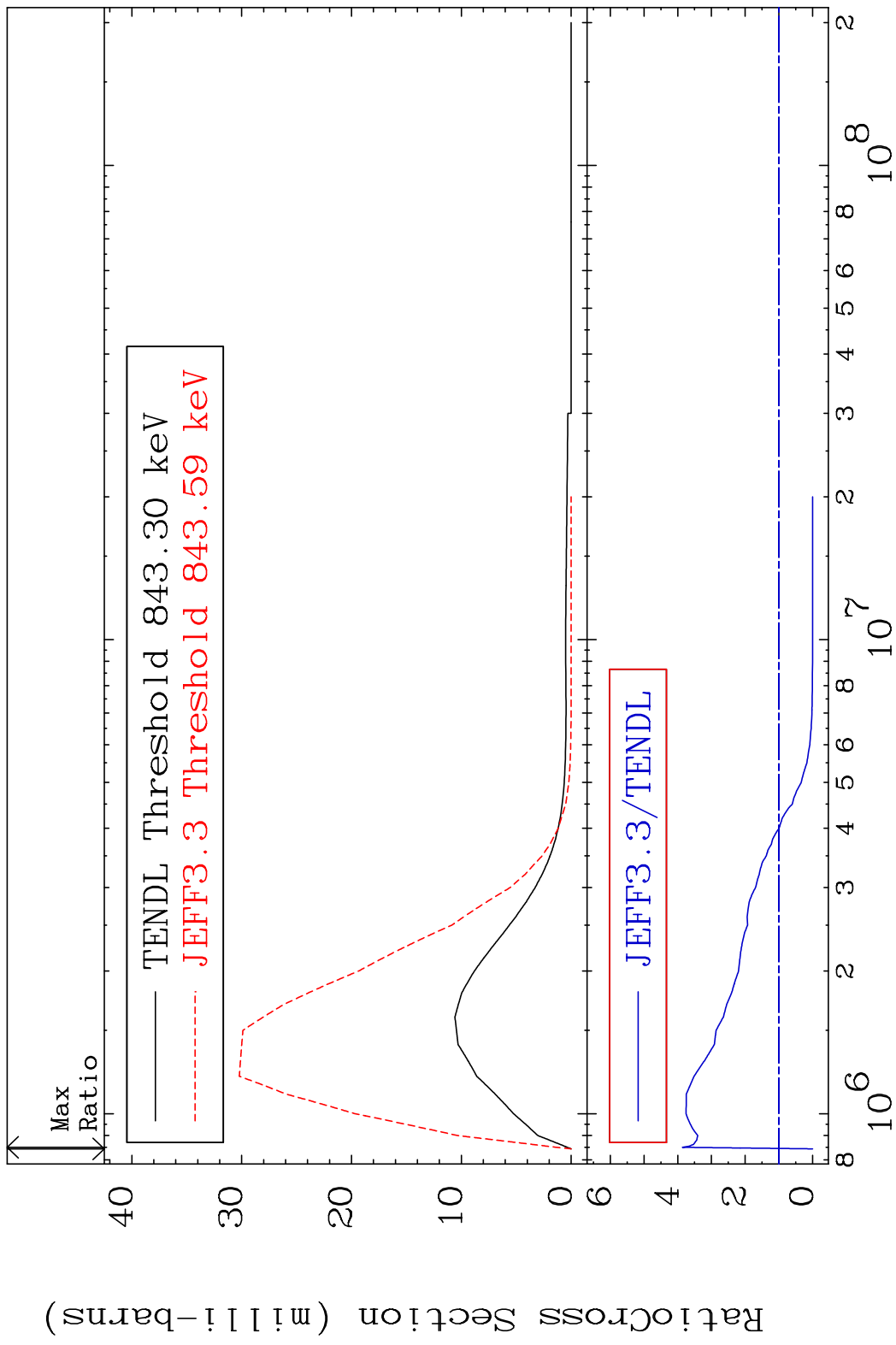
MAT 7731 MT= 72 (n, n') Level 77-Ir-193  
 Cross Section -100.0 To 445.4 %



MAT 7731 MT= 73 (n, n') Level 77-Ir-193  
 Cross Section -100.0 To 428.6 %

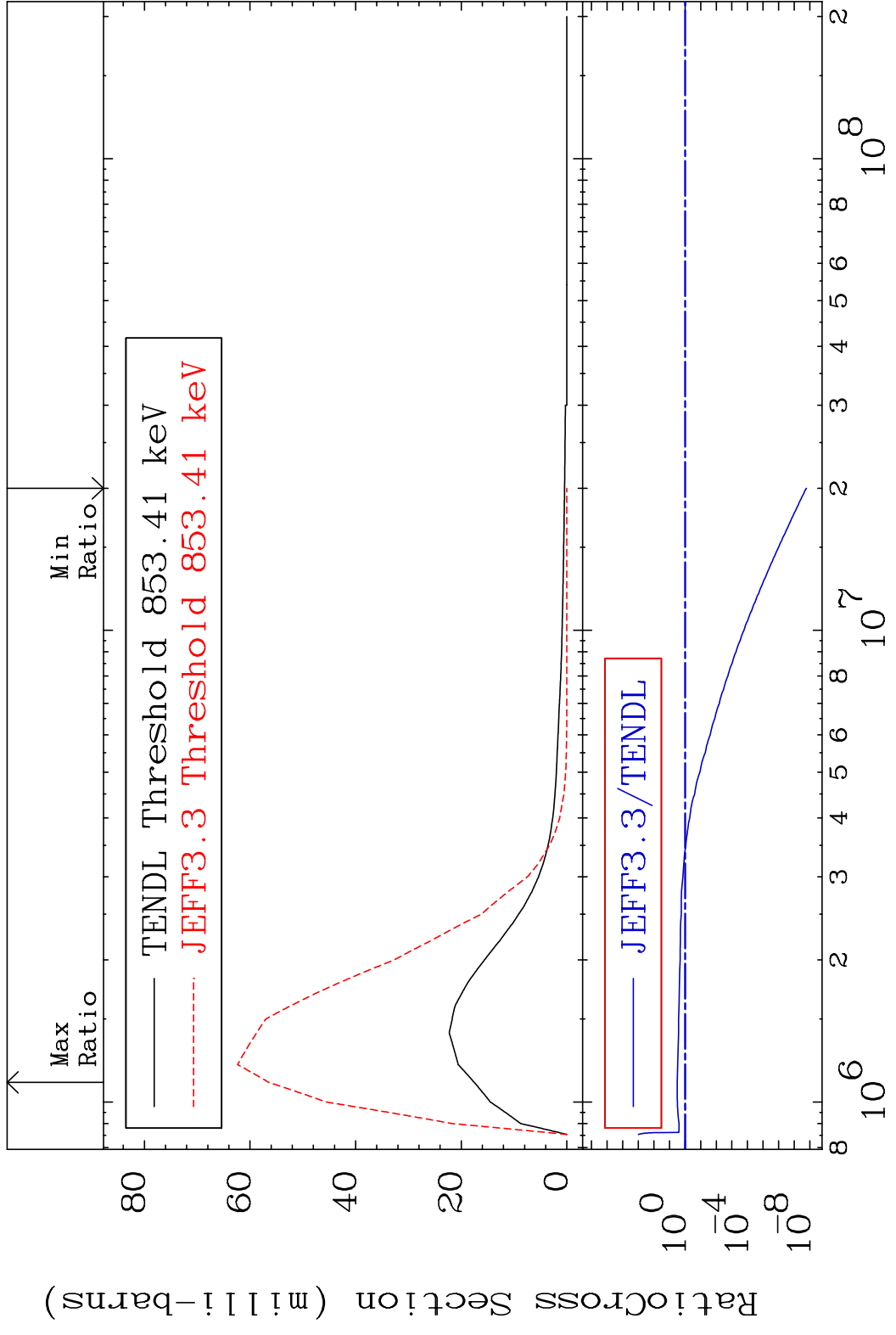


MAT 7731 MT= 74 (n, n') Level 77-Ir-193  
 Cross Section -100.0 To 286.3 %

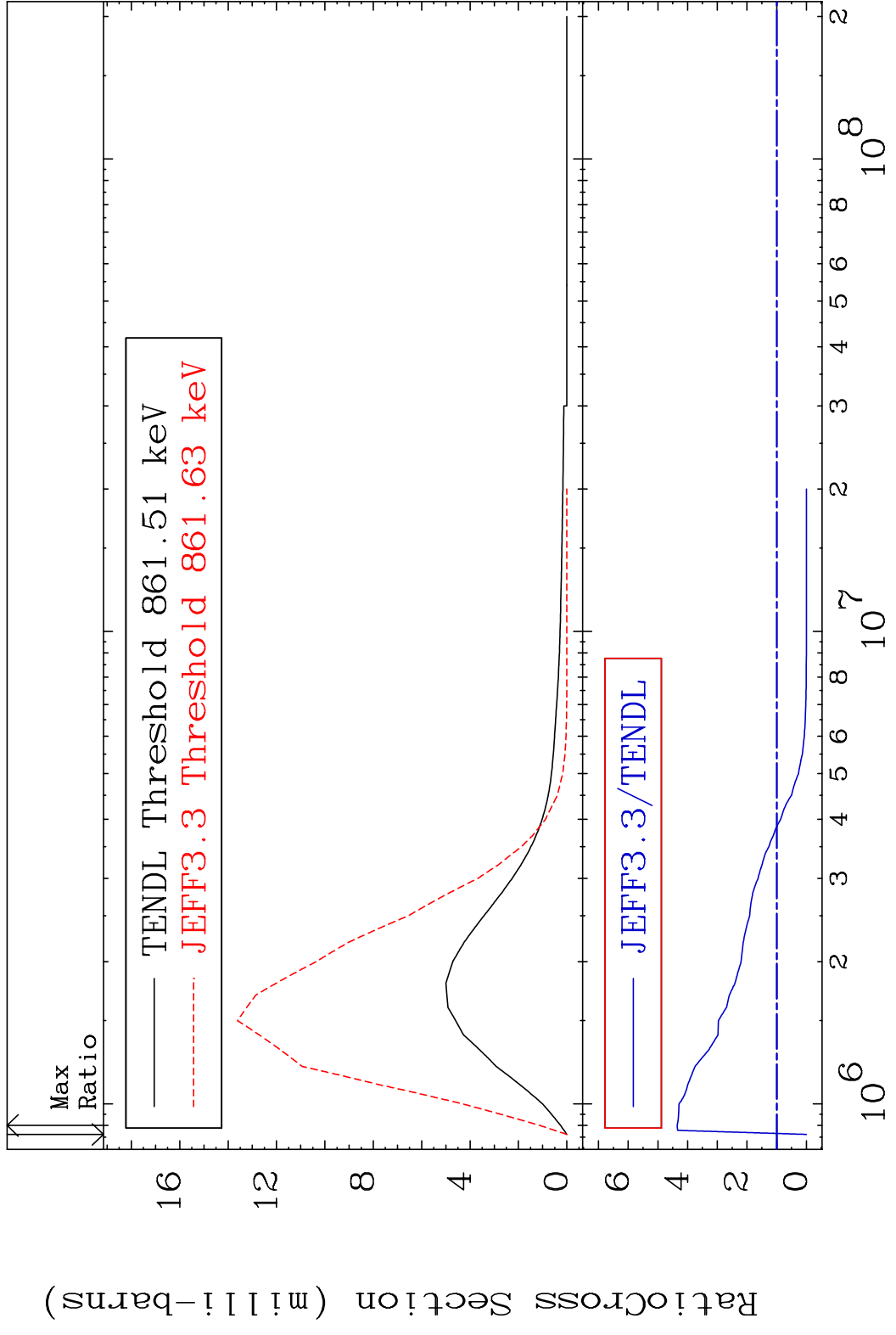


33 Incident Energy (eV) 77-Ir-193

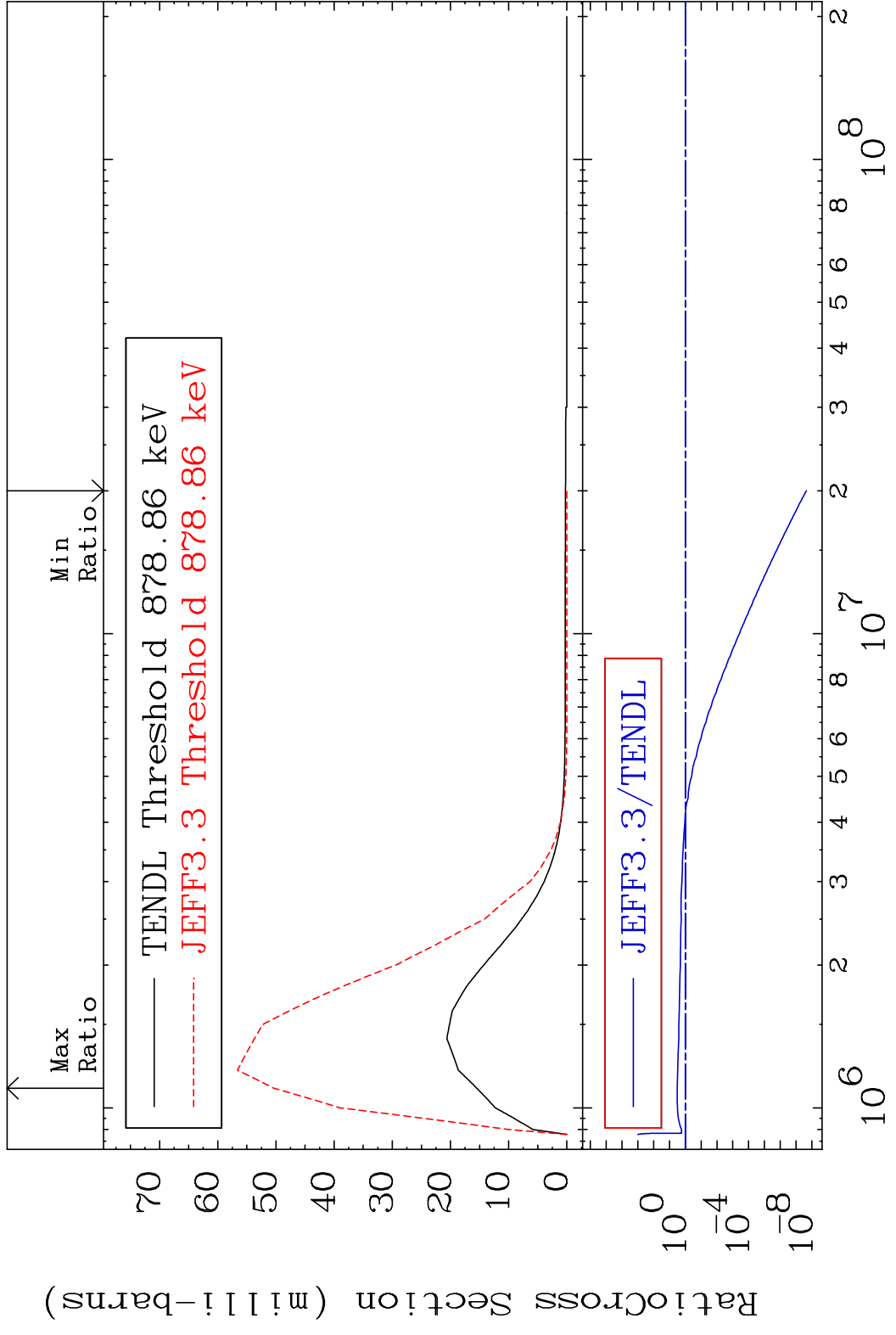
MAT 7731 MT= 75 (n, n') Level 77-Ir-193  
 Cross Section -100.0 To 221.7 %



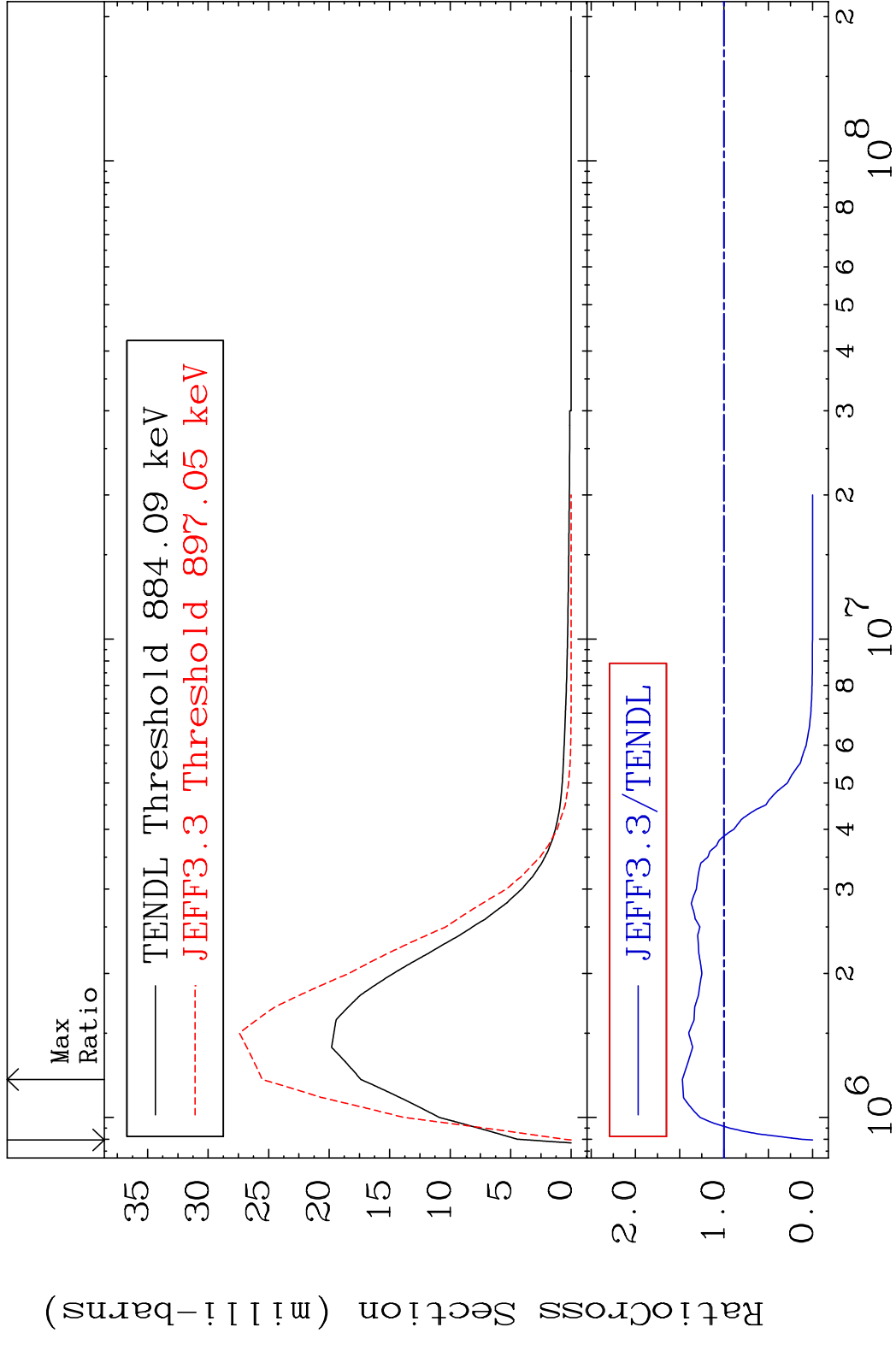
MAT 7731 MT= 76 (n, n') Level 77-Ir-193  
 Cross Section -100.0 To 335.0 %



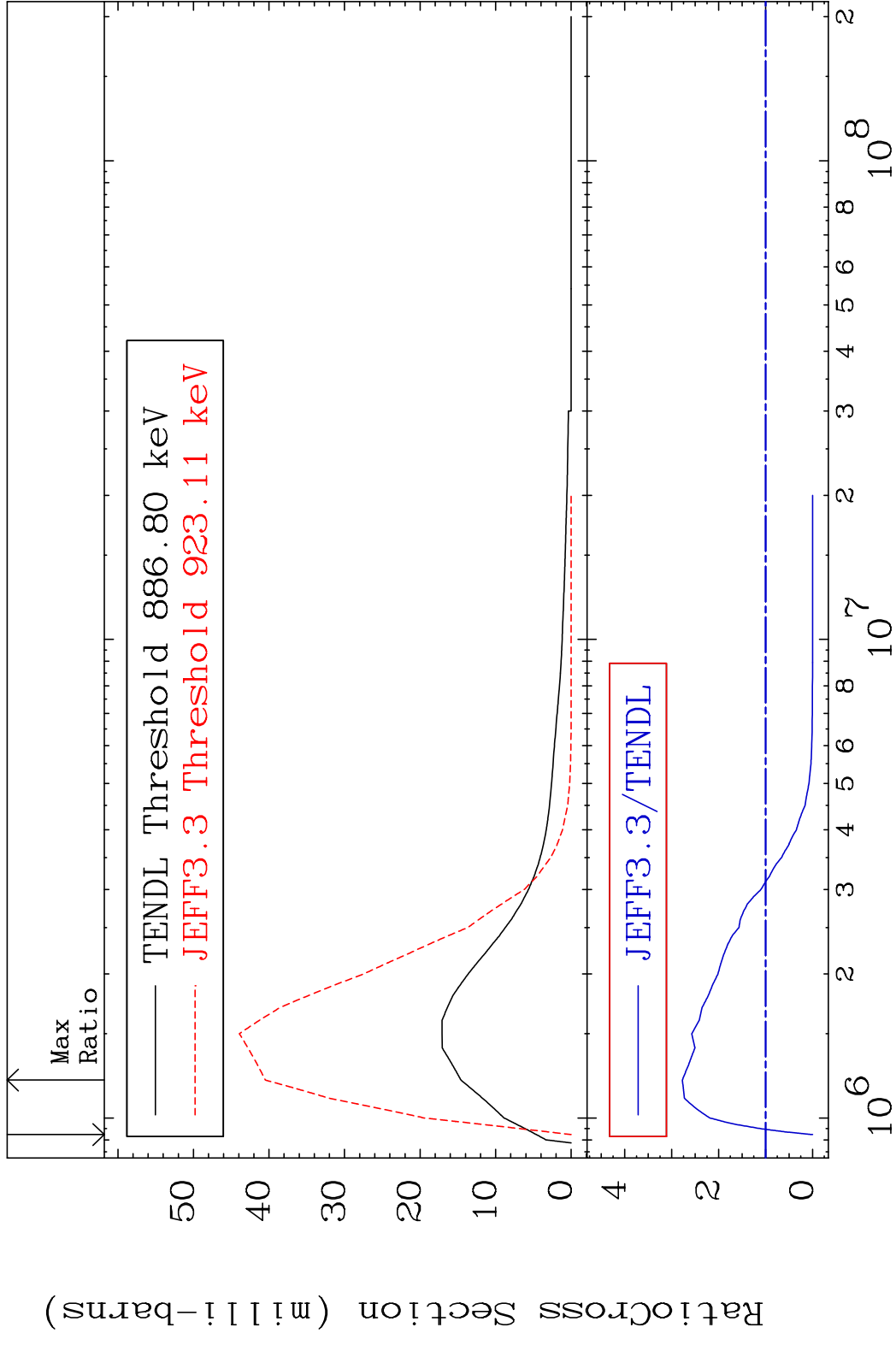
MAT 7731      MT= 77 (n, n') Level      77-Ir-193  
 Cross Section    -100.0 To 225.6 %



MAT 7731 MT= 78 (n,n') Level 77-Ir-193  
 Cross Section -100.0 To 46.97 %



MAT 7731      MT= 79 (n, n') Level      77-Ir-193  
 Cross Section    -100.0 To 177.3 %

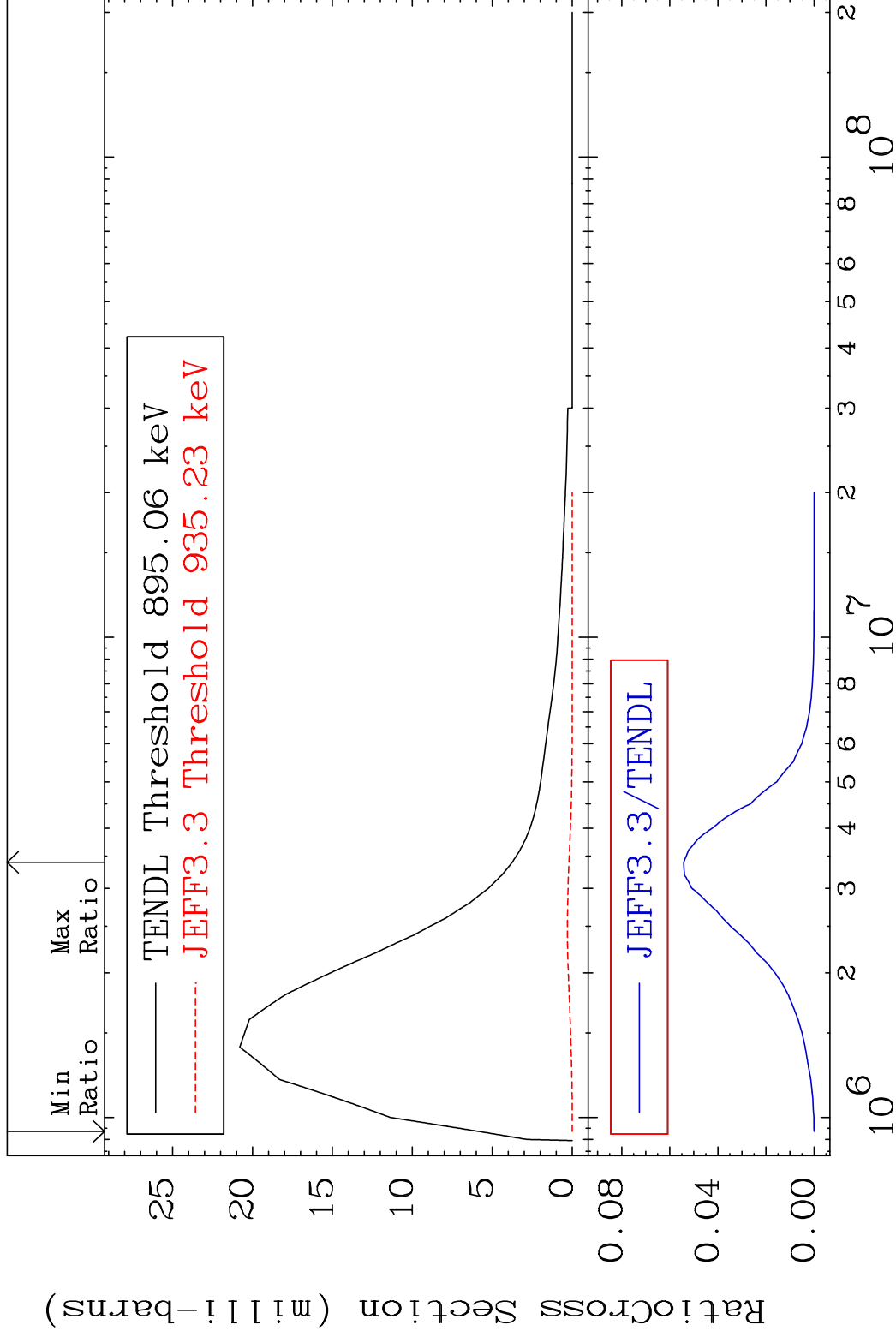


MAT 7731

MT= 80 (n, n') Level

77-Ir-193

Cross Section -100.0 To -94.58%



39

Incident Energy (eV)

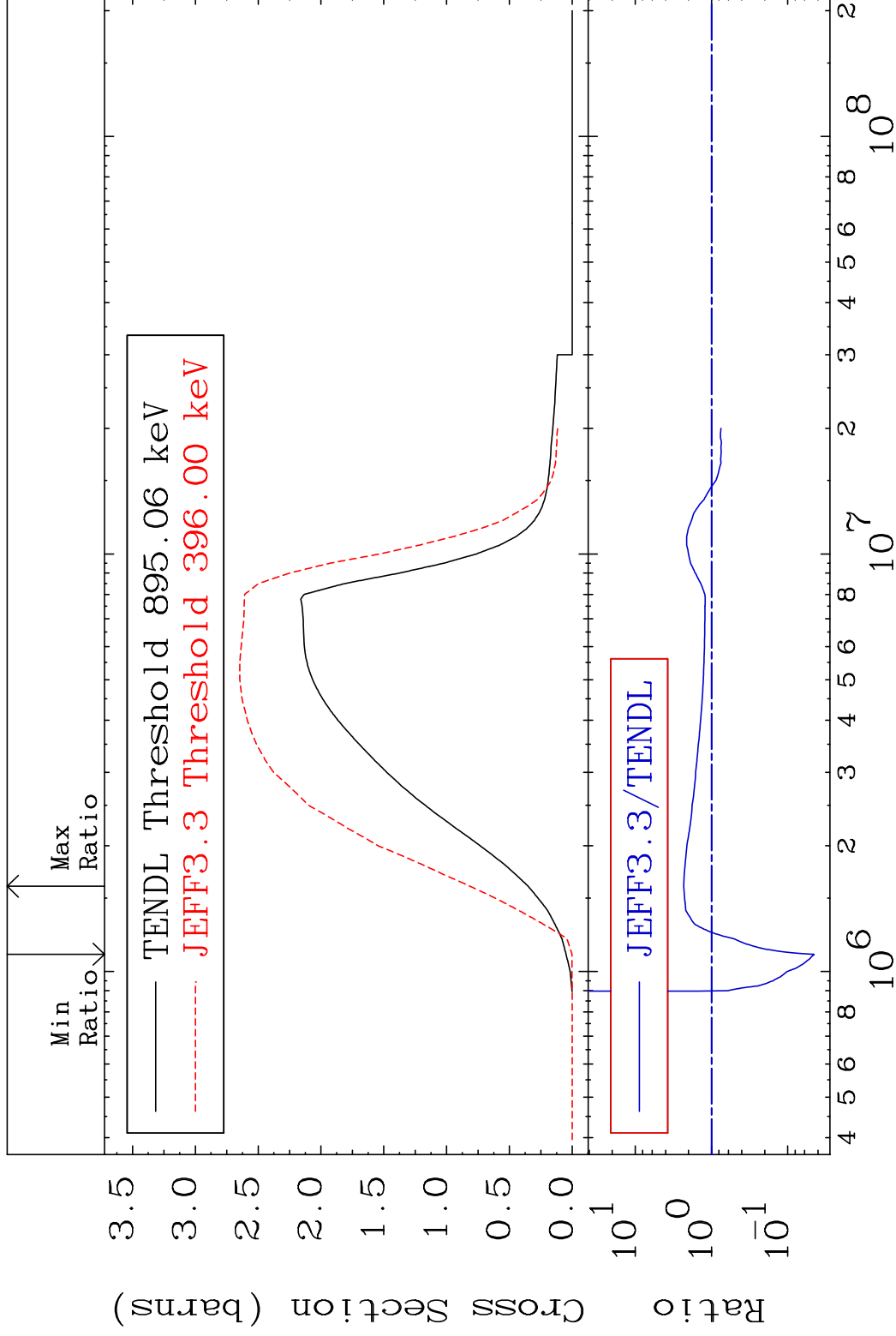
77-Ir-193

MAT 7731

(n, n') Continuum

77-Ir-193

Cross Section -95.49 To 131.5 %



40

Incident Energy (eV)

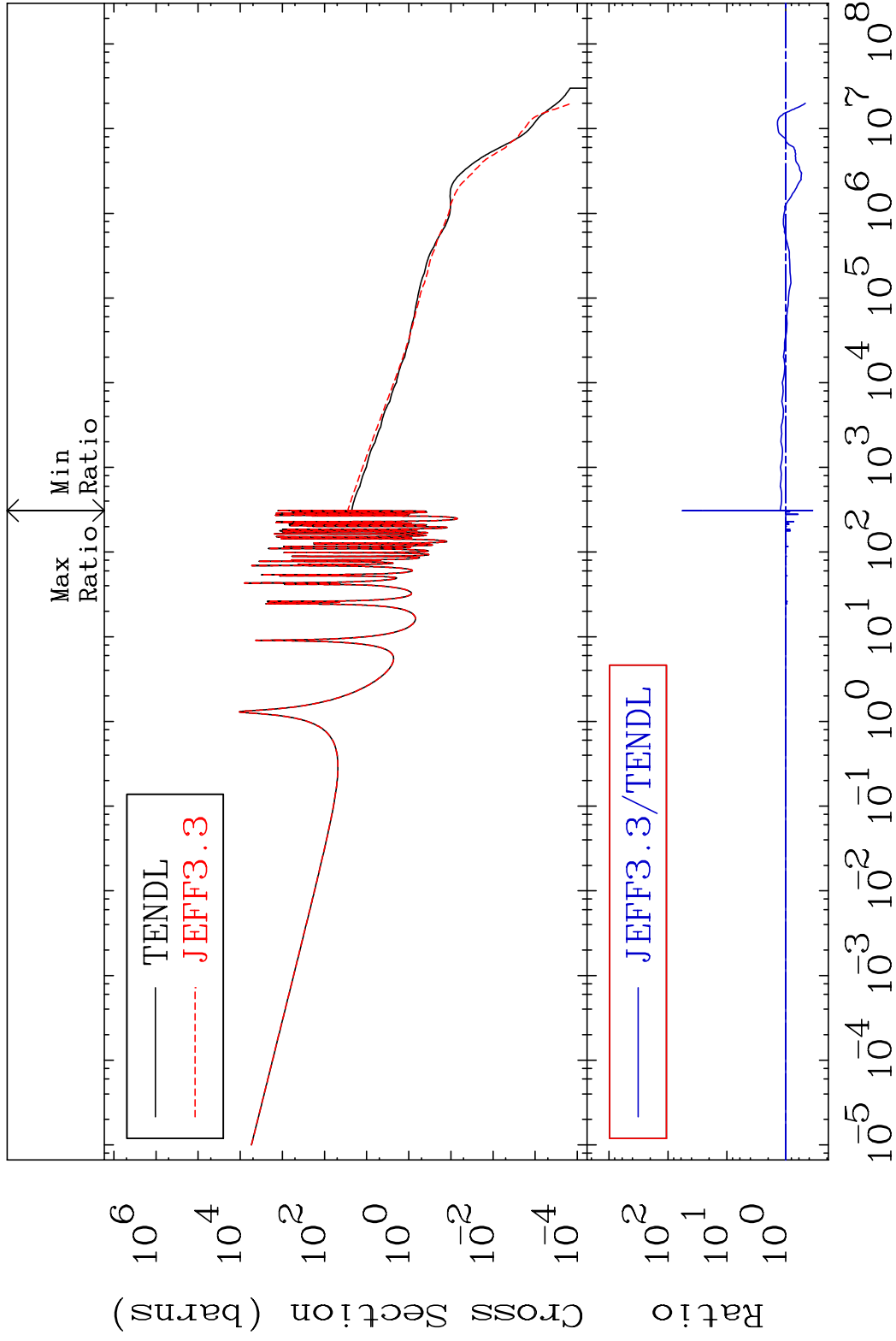
77-Ir-193

MAT 7731

(n,  $\gamma$ )

77-Ir-193

Cross Section -64.89 To 5598. %

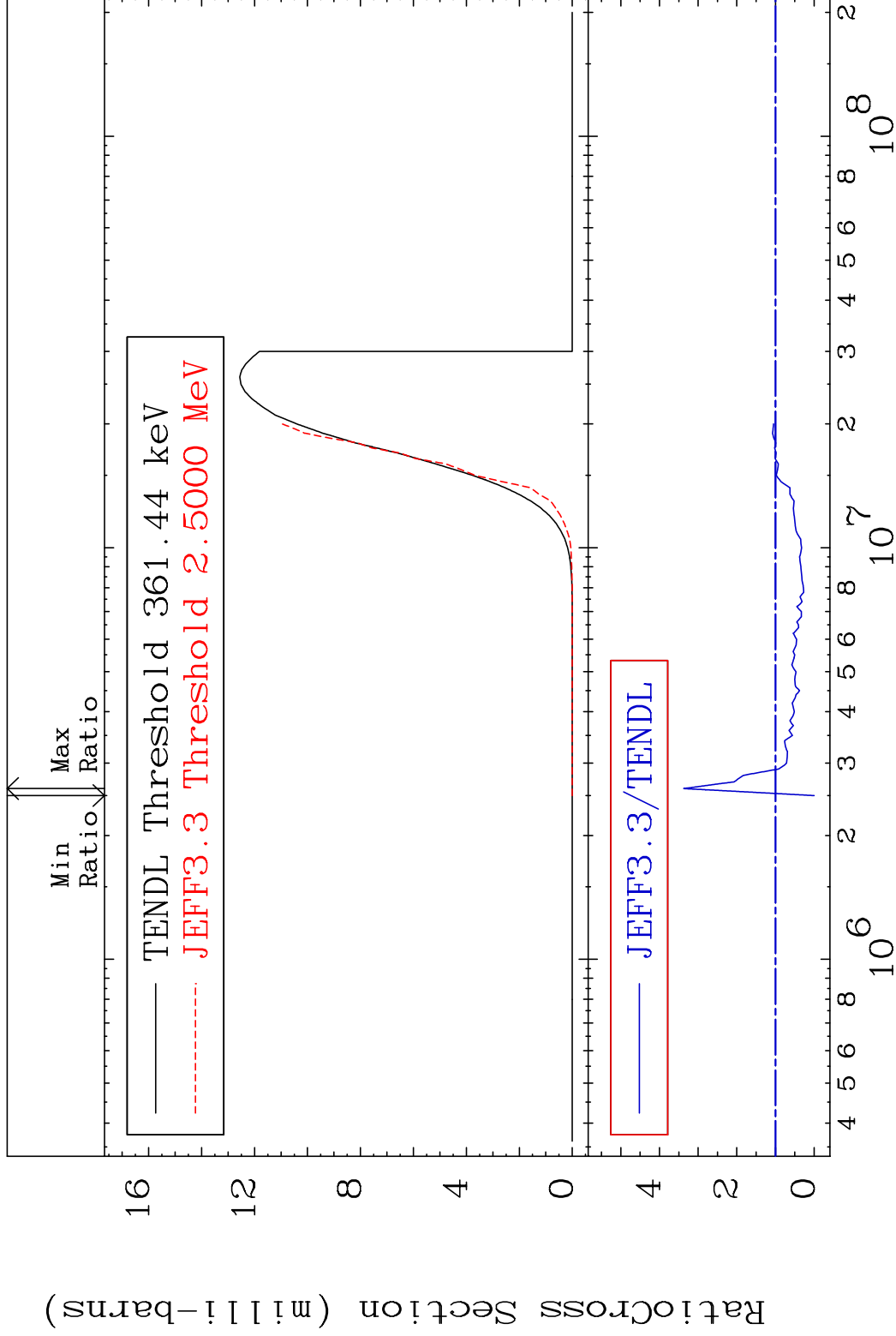


MAT 7731

(n, p)

77-Ir-193

Cross Section -100.0 To 237.4 %



42

Incident Energy (eV)

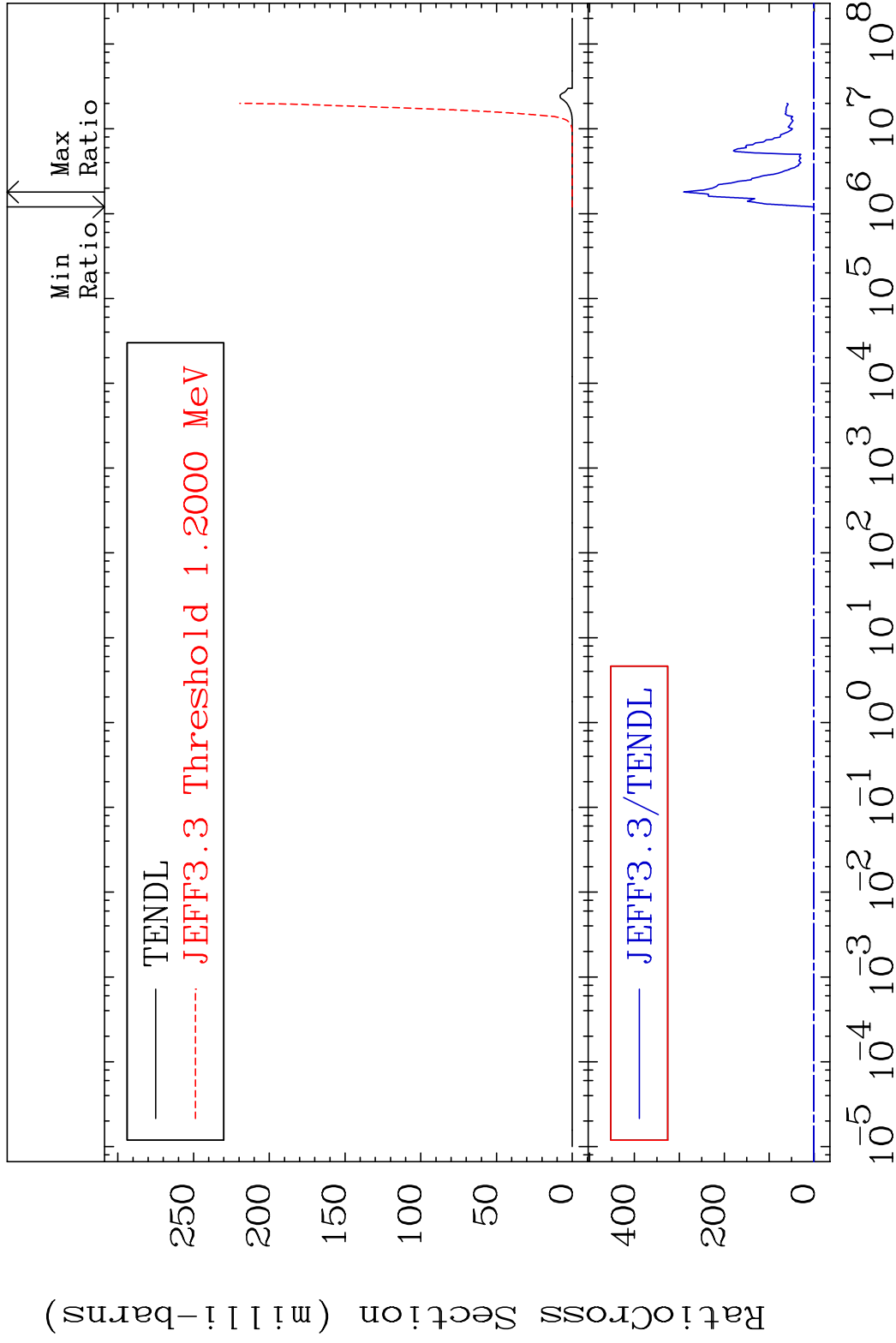
77-Ir-193

MAT 7731

(n,  $\alpha$ )

77-Ir-193

Cross Section -100.0 To 9999. %



43

Incident Energy (eV)

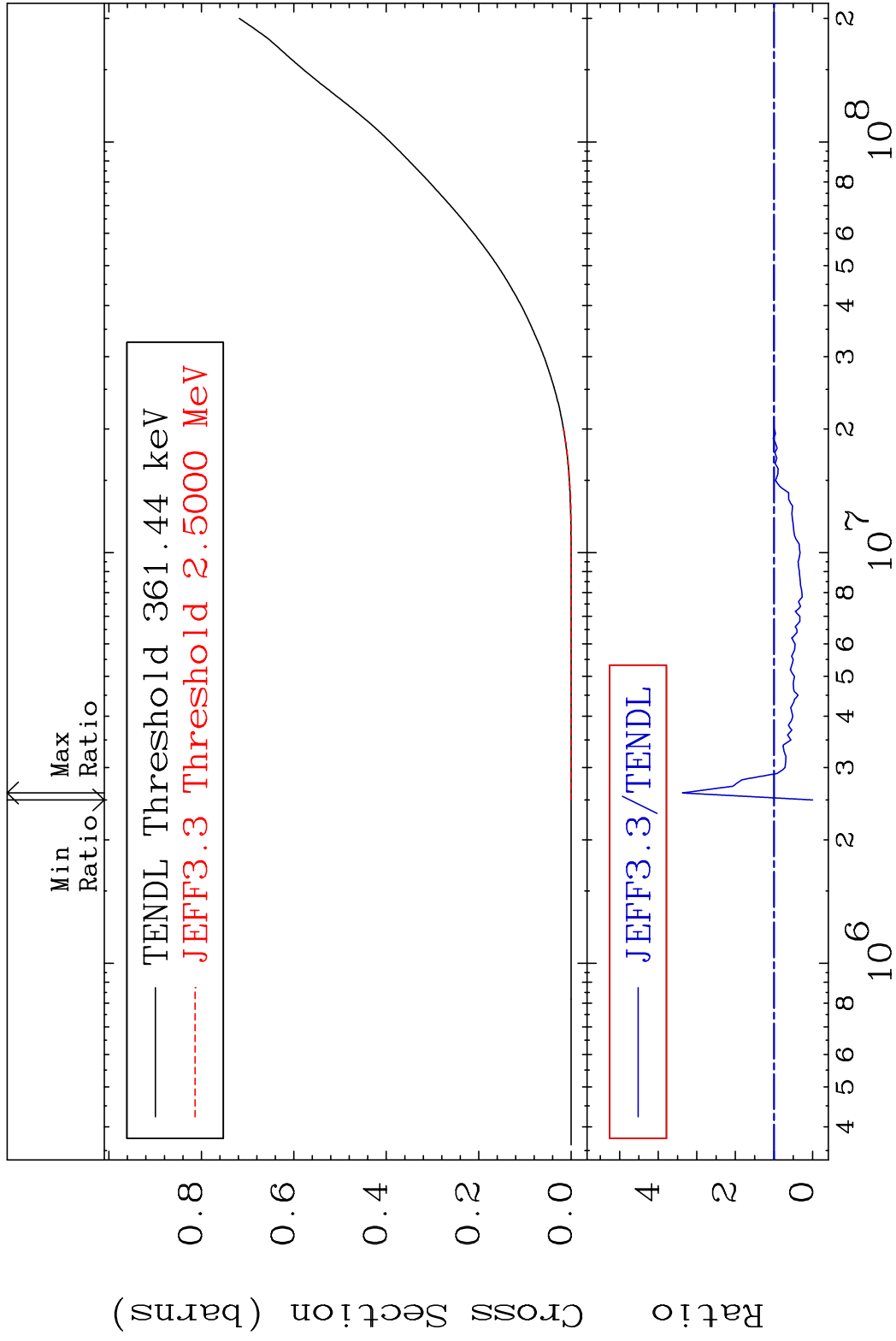
77-Ir-193

MAT 7731

Hydrogen Production

77-Ir-193

Cross Section -100.0 To 237.4 %



44

Incident Energy (eV)

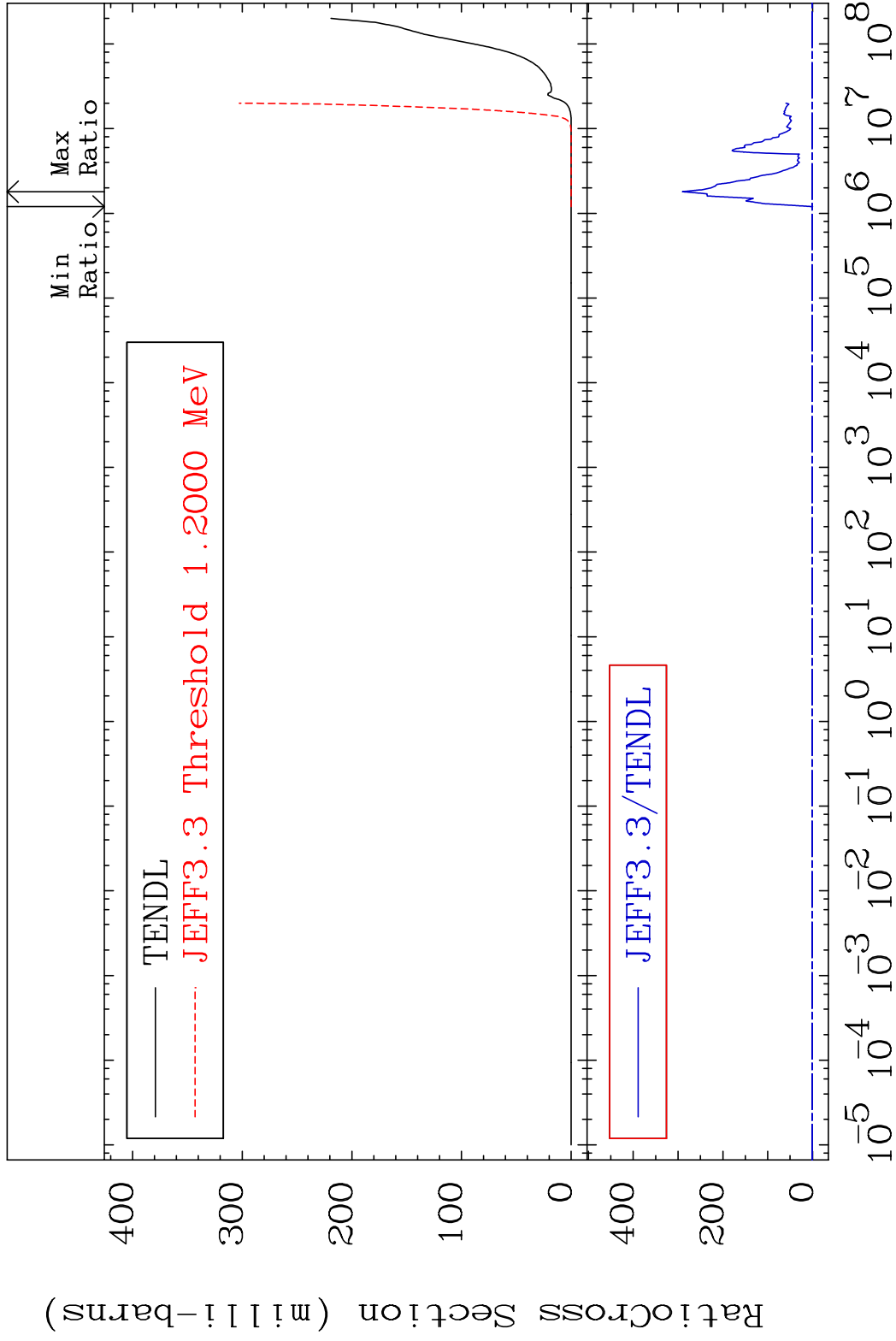
77-Ir-193

MAT 7731

He-4 Production

77-Ir-193

Cross Section -100.0 To 9999. %

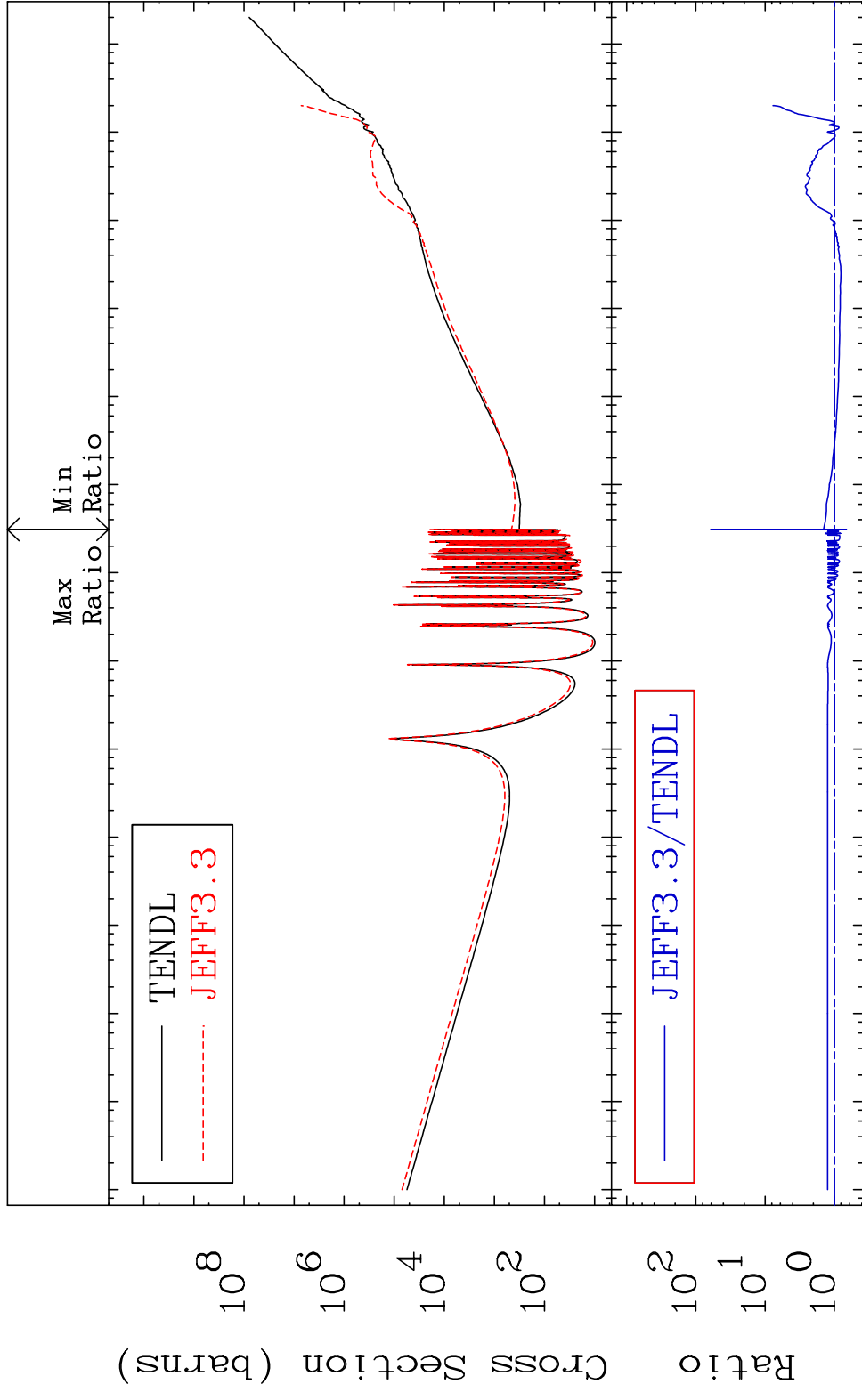


45

Incident Energy (eV)

77-Ir-193

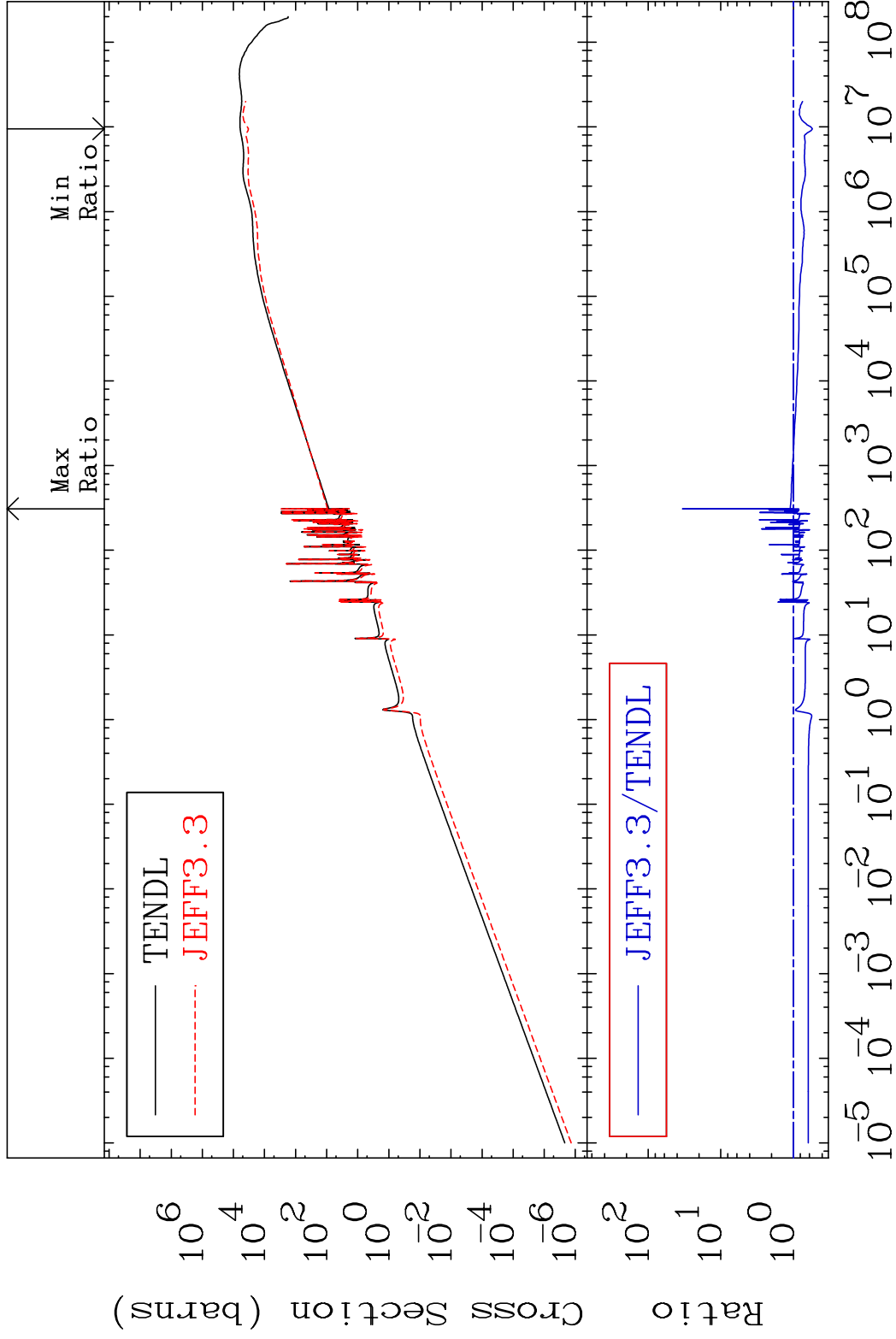
MAT 7731 Kerma total (eV-barns) 77-Ir-193  
 Cross Section -32.93 To 6005. %



MAT 7731

Kerma elastic  
Cross Section

77-Ir-193  
-45.60 To 3288. %

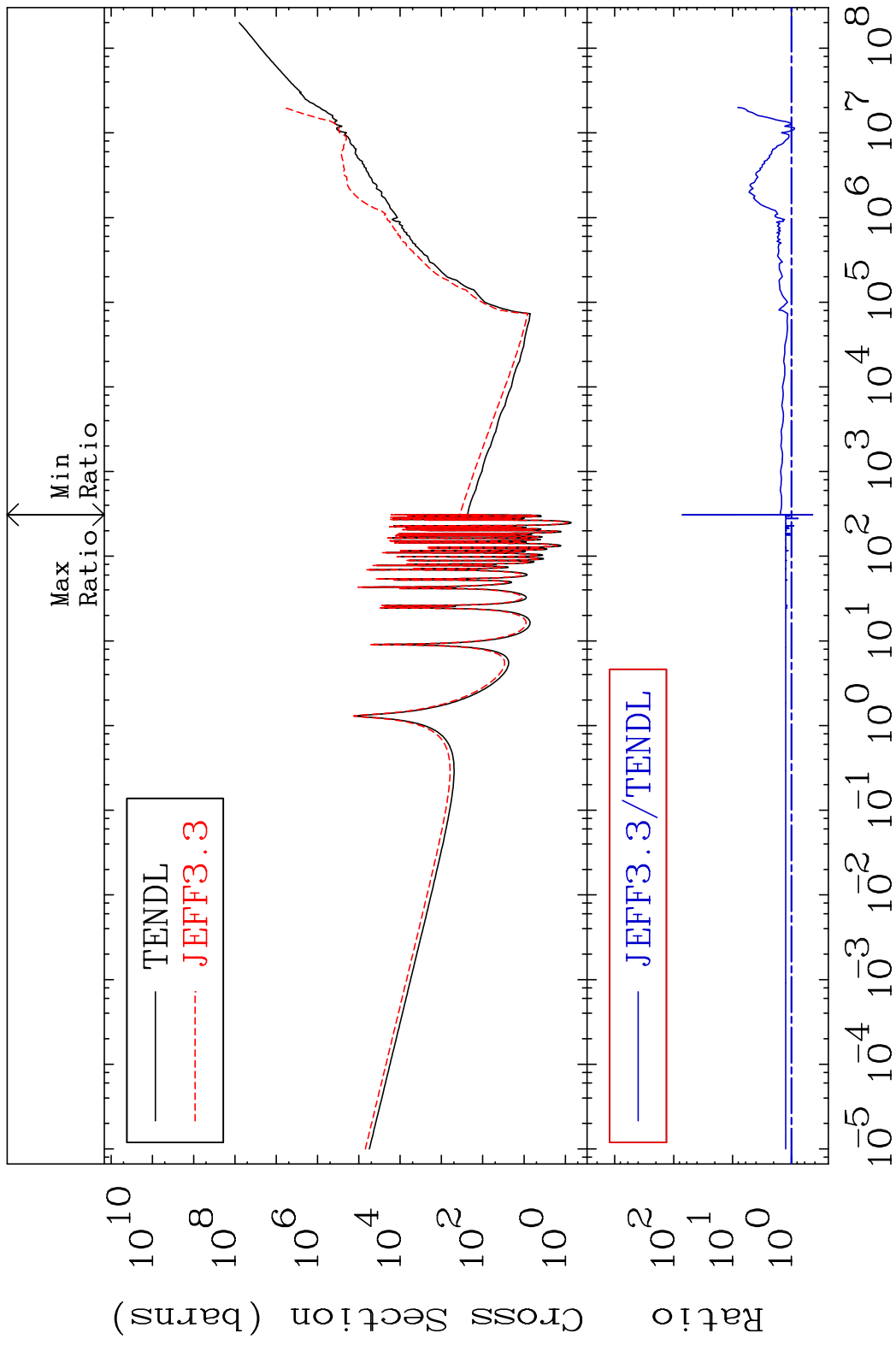


47

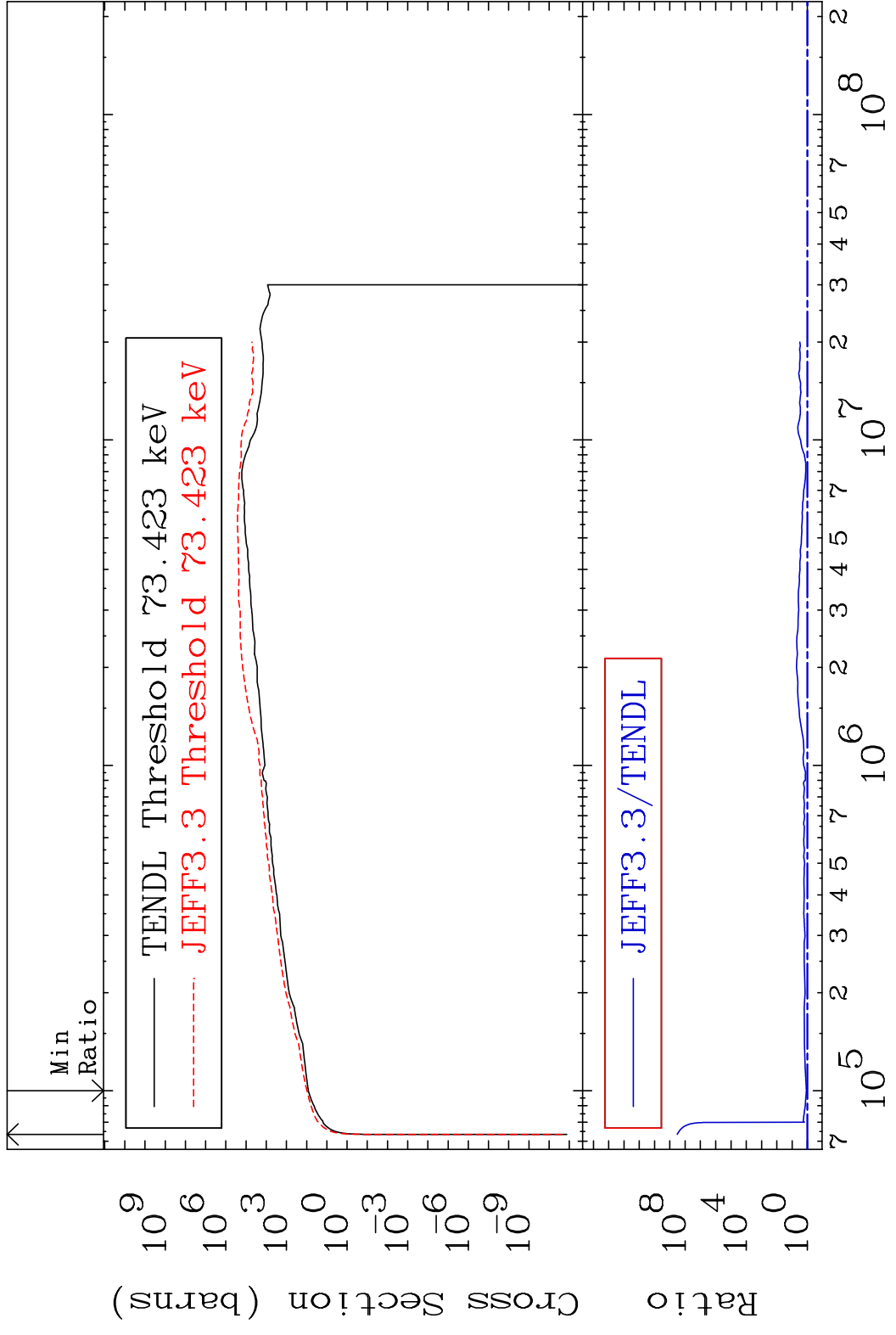
Incident Energy (eV)

77-Ir-193

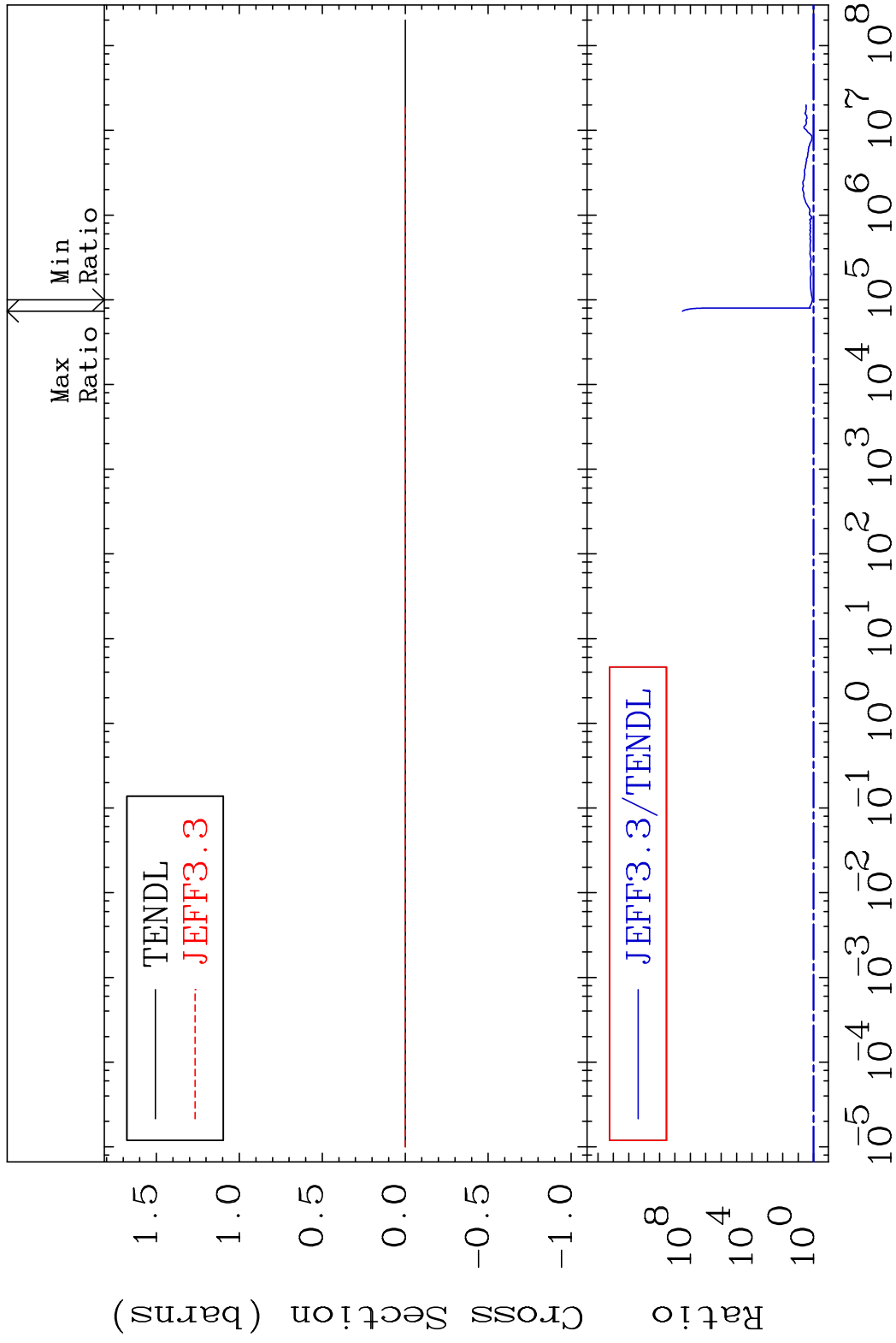
MAT 7731 Kerma non-elastic (all but mt2) 77-Ir-193  
 Cross Section -56.17 To 7013. %



MAT 7731 Kerma inelastic (mt51-91) 77-Ir-193  
 Cross Section 16.84 To 9999. %



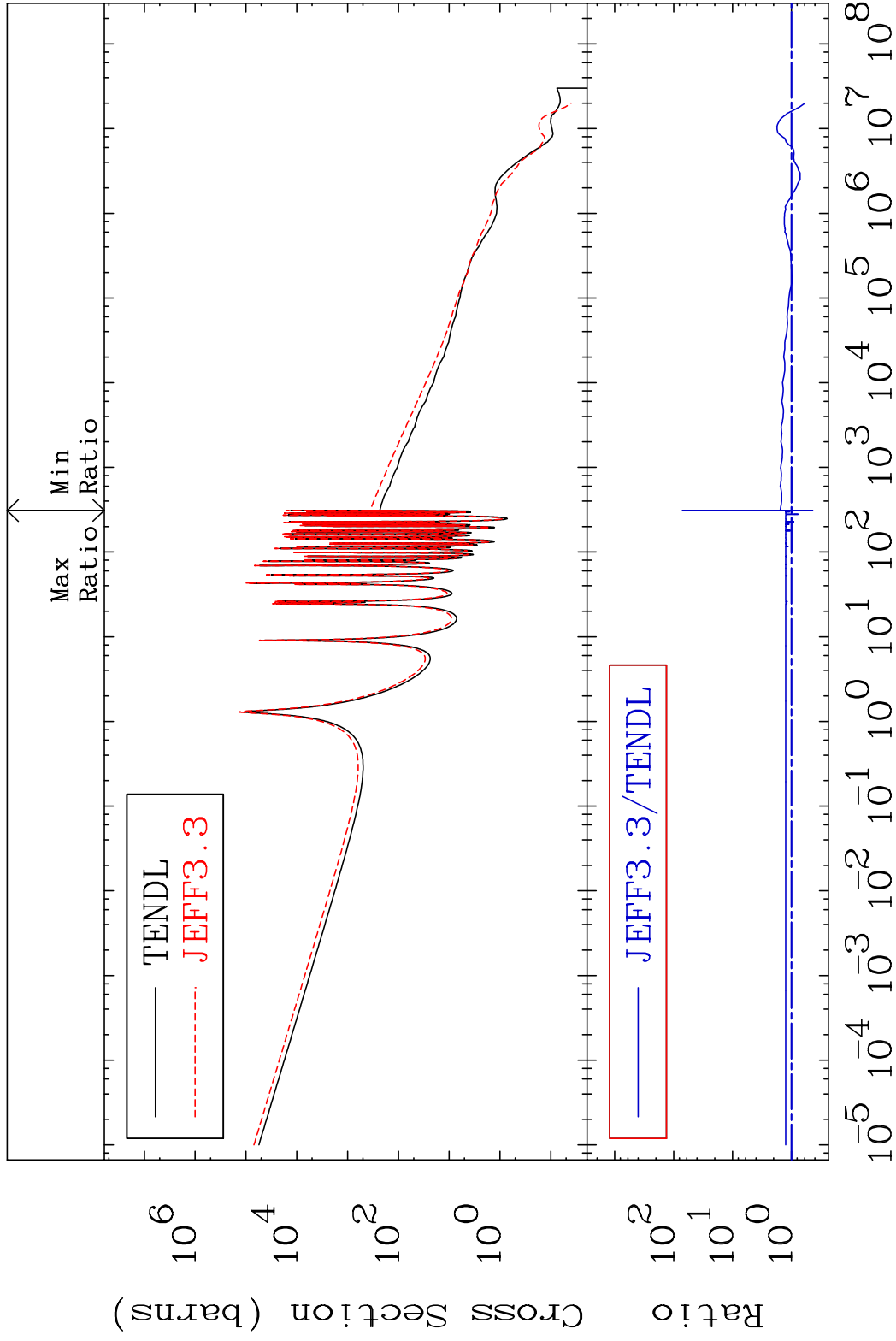
MAT 7731 Kerma fission (mt18 or mt19-20-21-38)77-Ir-193  
 Cross Section 16.84 To 9999. %



MAT 7731

Kerma capture (mt102) 77-Ir-193

Cross Section -56.17 To 7013. %

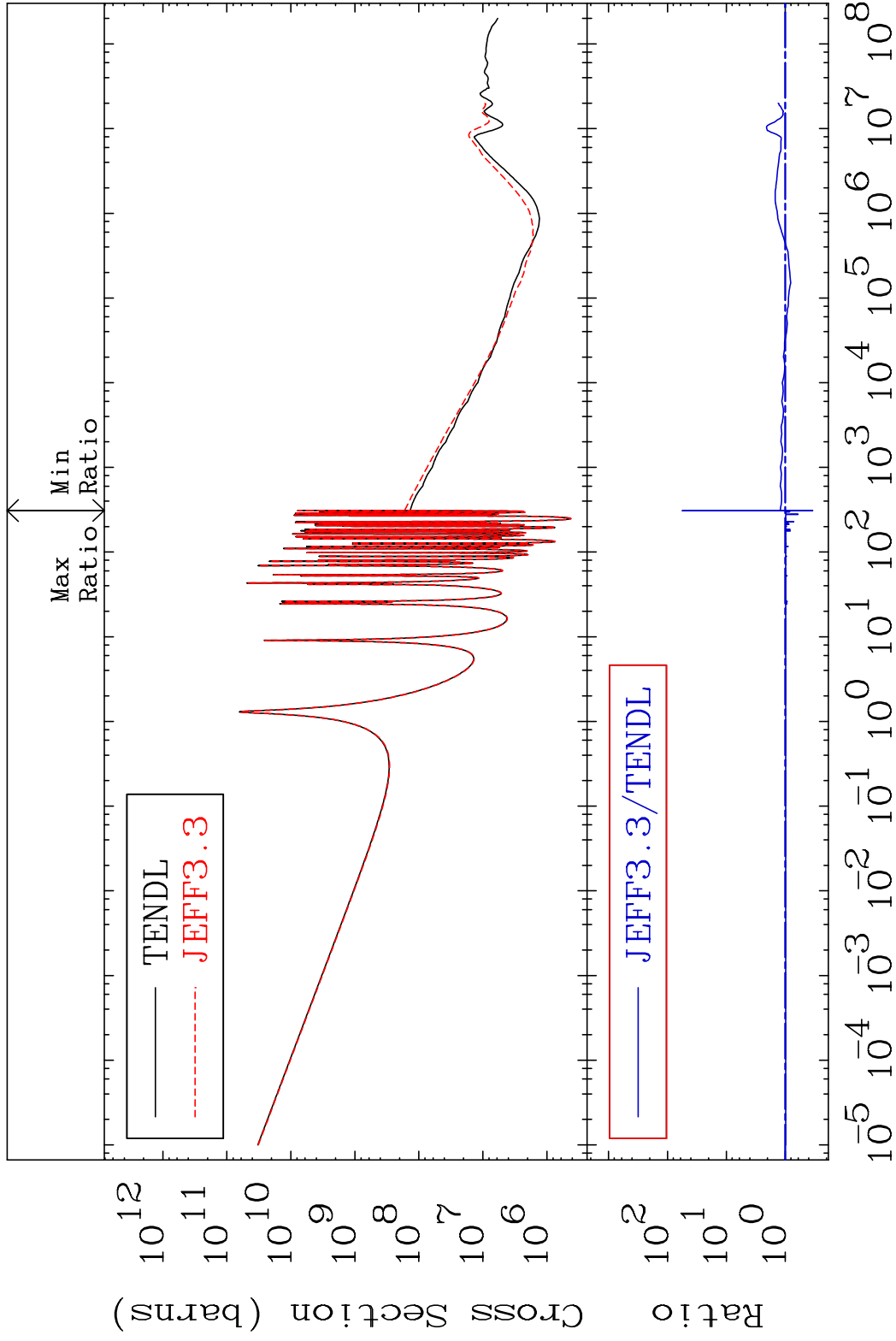


MAT 7731

Total photon (eV-barns)

77-Ir-193

Cross Section -65.58 To 5486. %

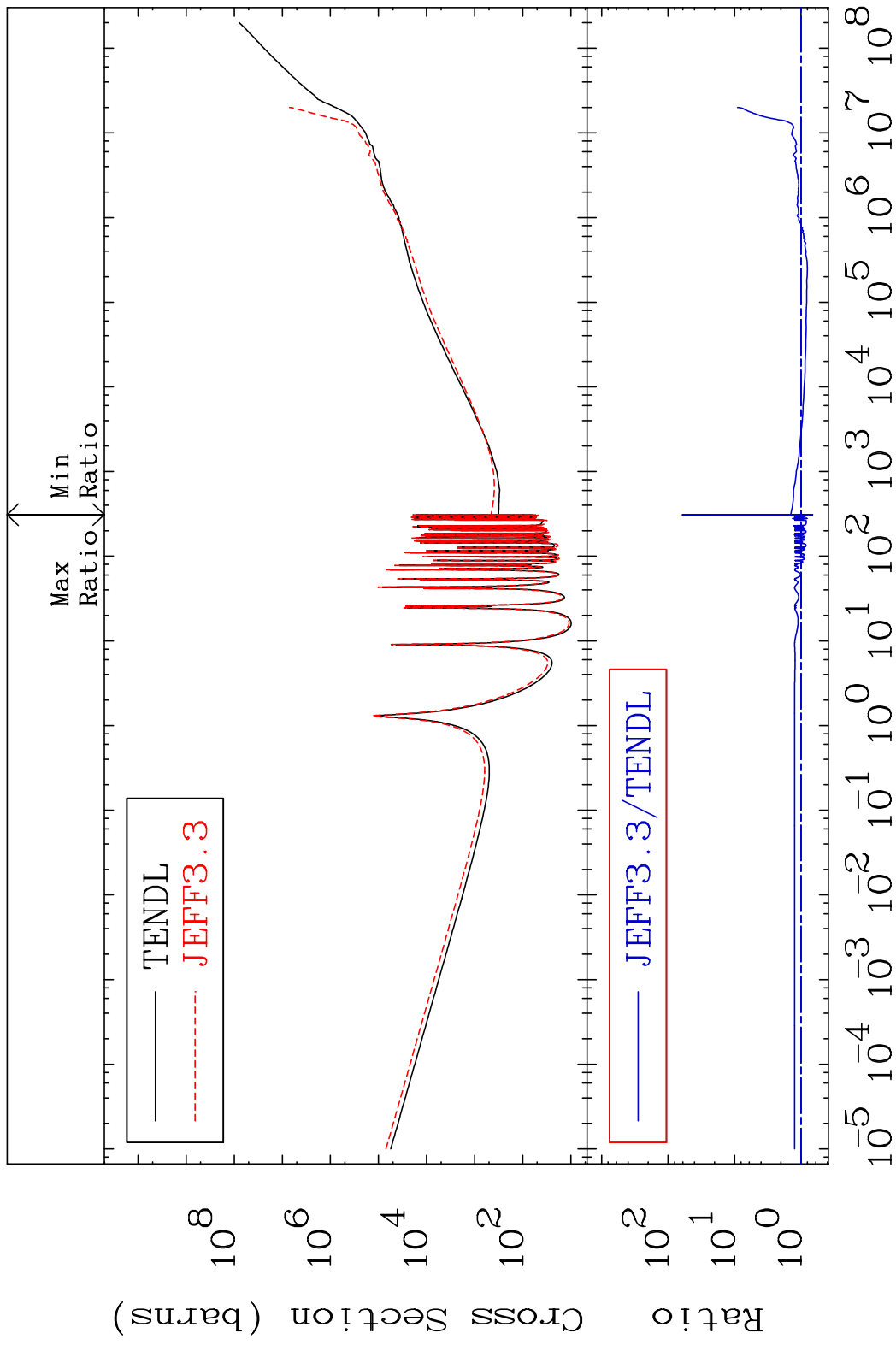


52

Incident Energy (eV)

77-Ir-193

MAT 7731 Total kinematic kerma (high limit) 77-Ir-193  
 Cross Section -32.93 To 6005. %

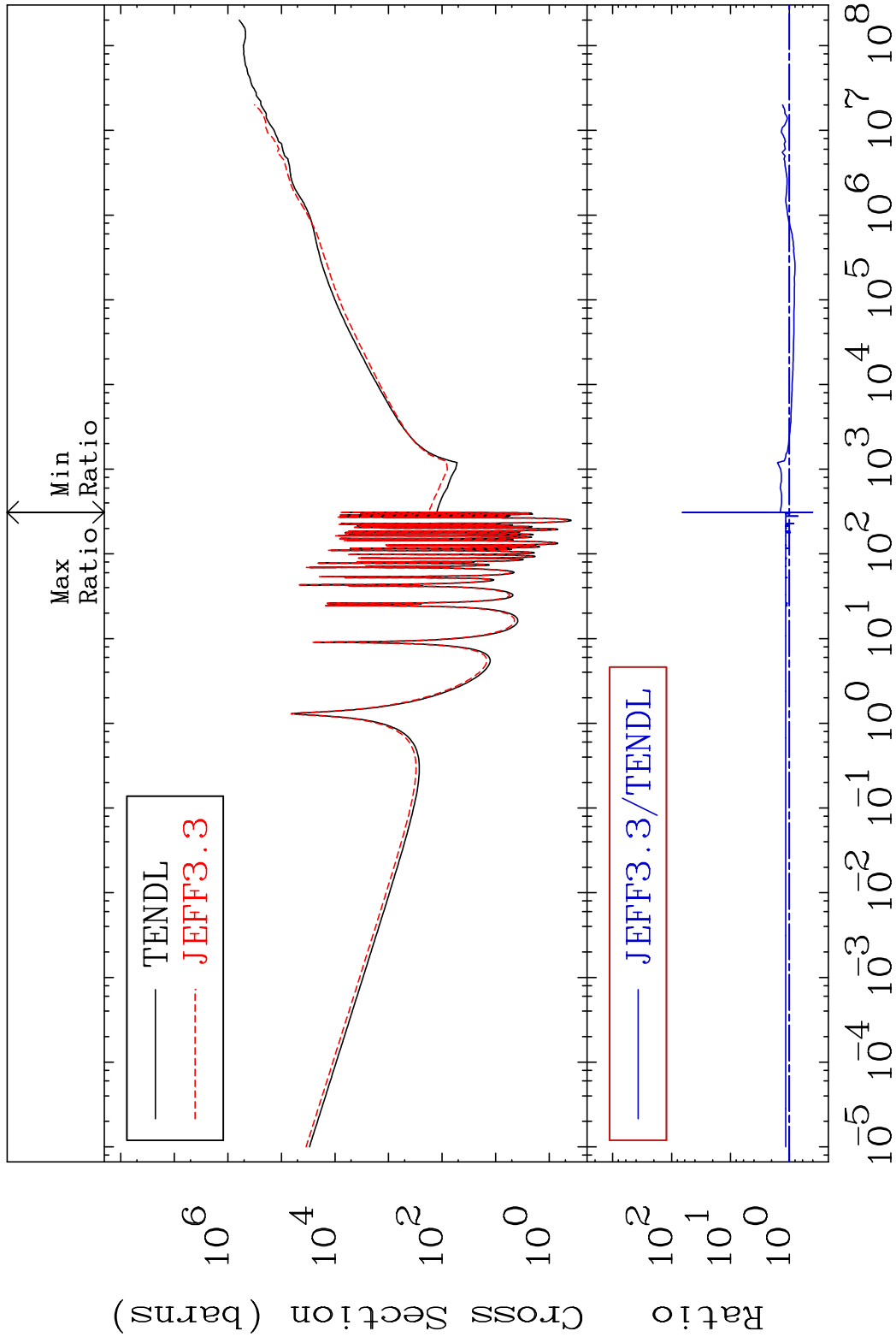


MAT 7731

Dpa total (eV-barns)

77-Ir-193

Cross Section -59.55 To 6465. %



54

Incident Energy (eV)

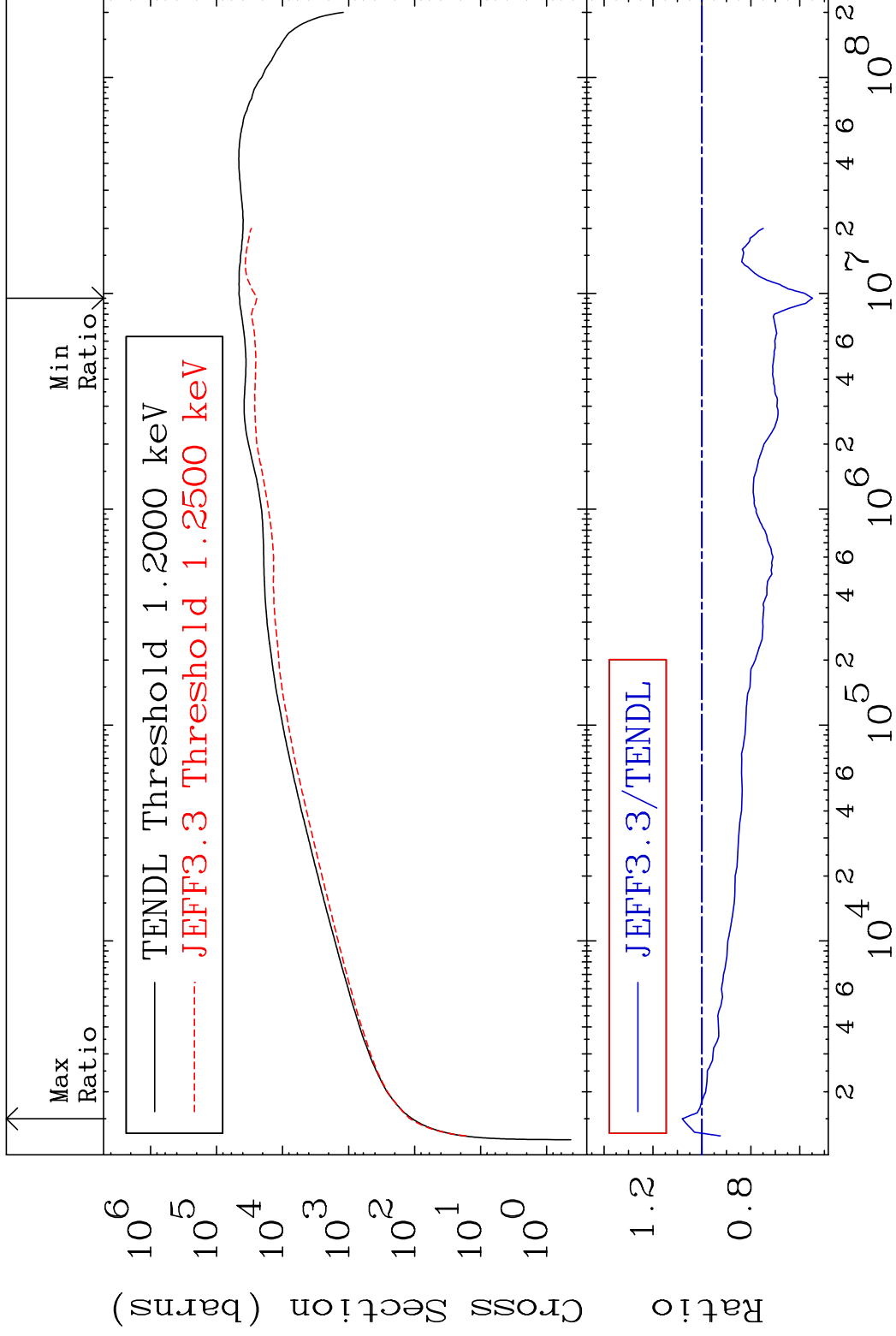
77-Ir-193

MAT 7731

Dpa elastic (mt2)

77-Ir-193

Cross Section -45.17 To 8.081 %

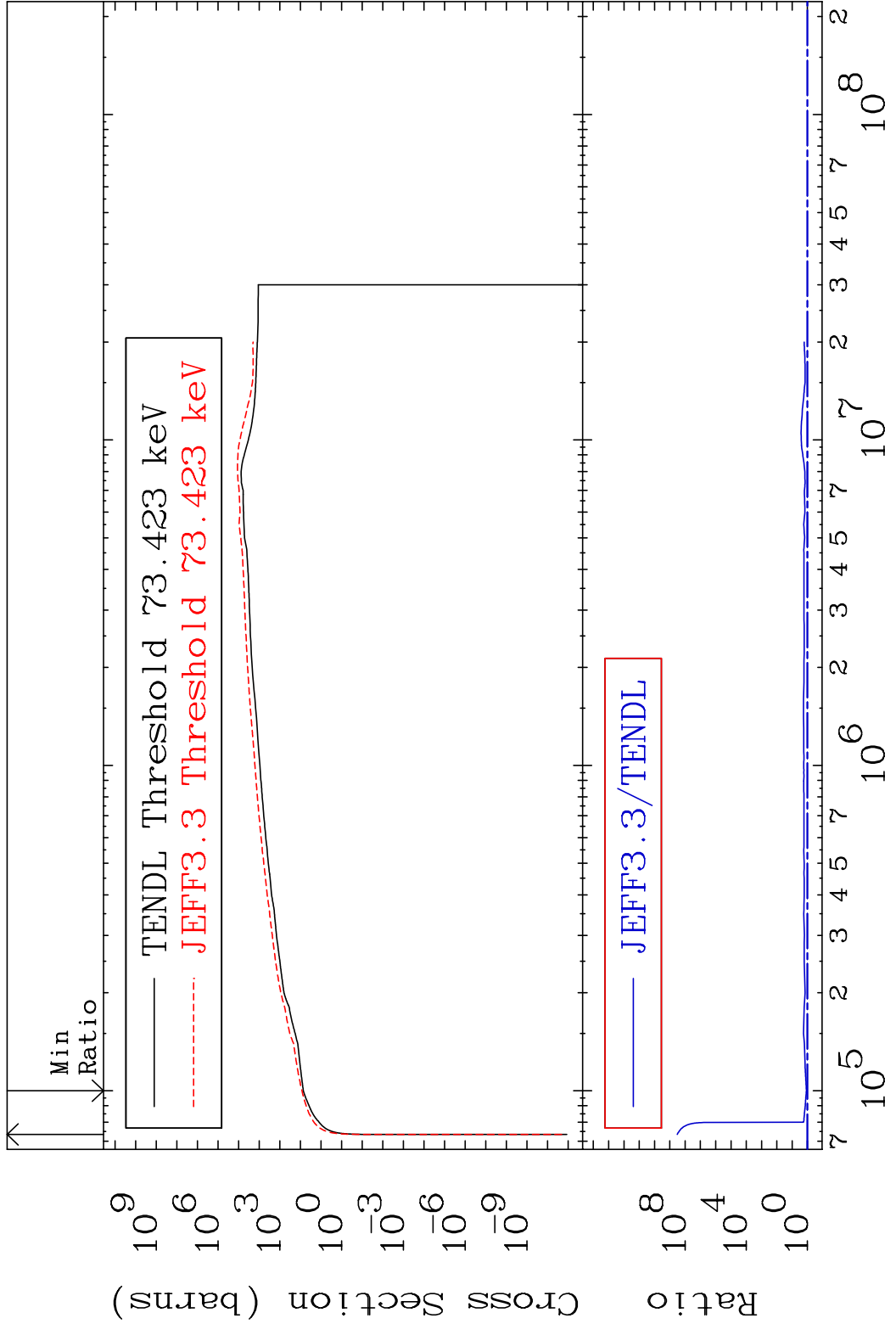


55

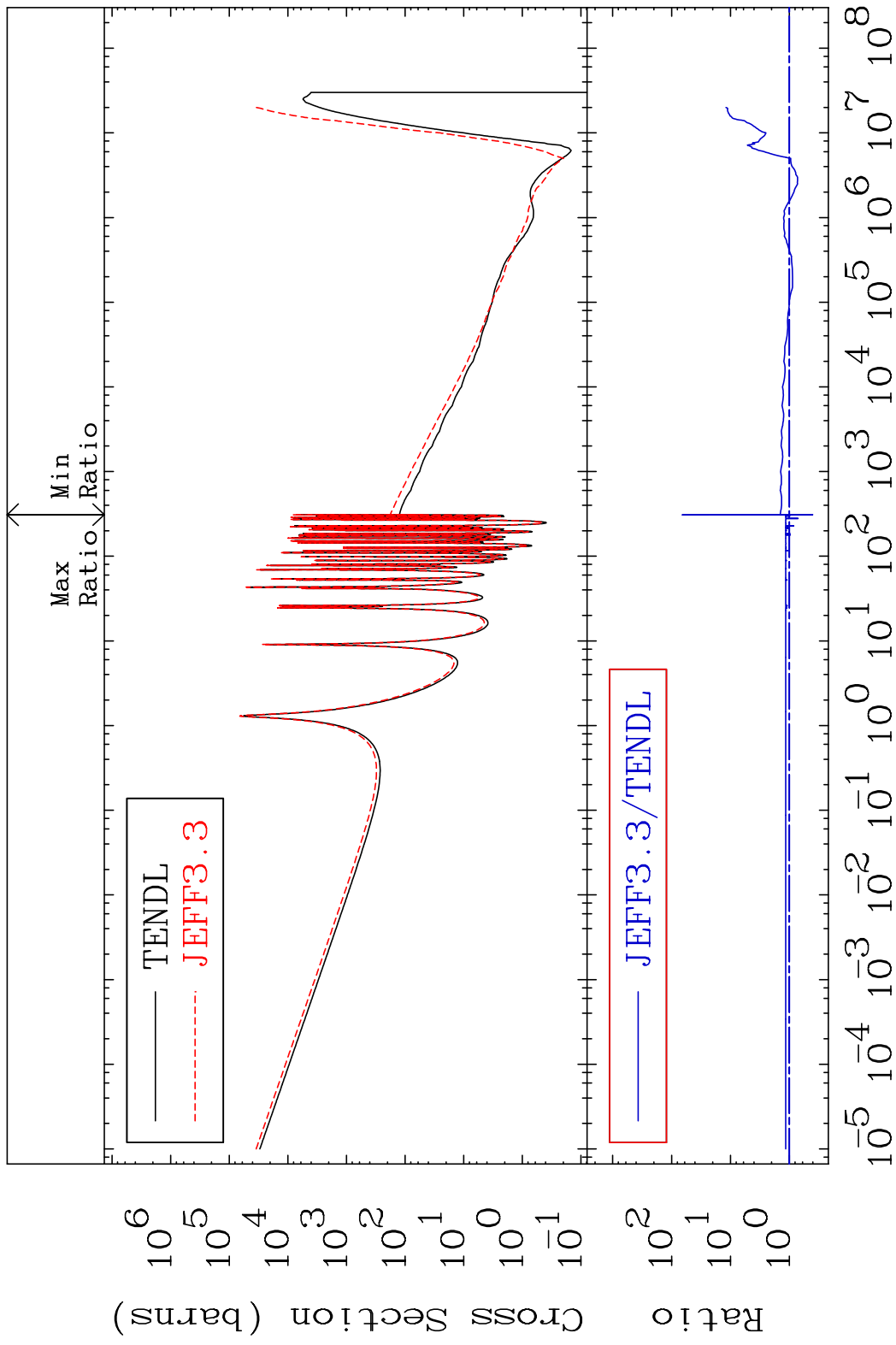
Incident Energy (eV)

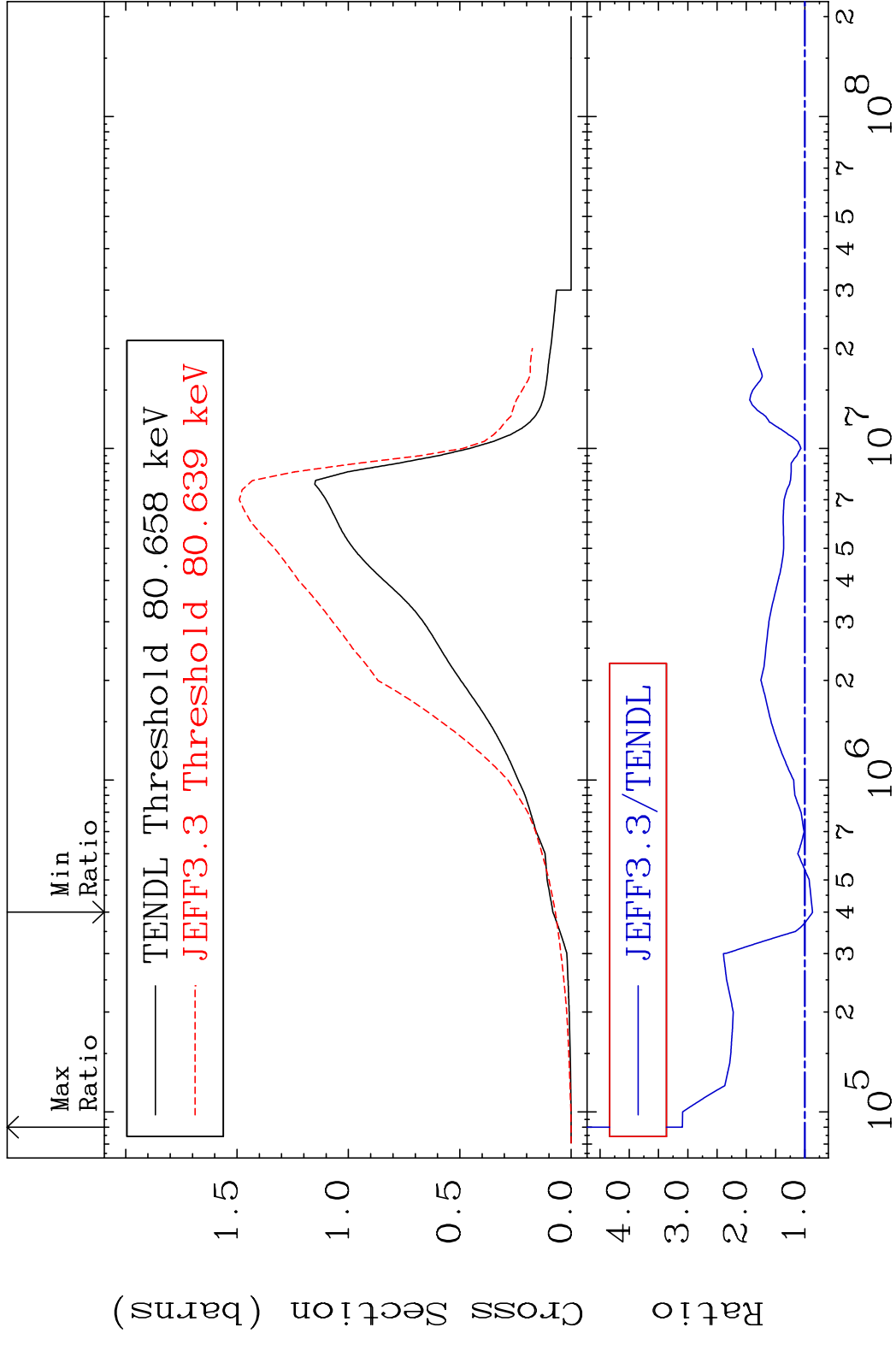
77-Ir-193

MAT 7731      Dpa inelastic (mt51-91)      77-Ir-193  
 Cross Section    16.87    To 9999. %



MAT 7731 Dpa disappearance (mt102 -120) 77-Ir-193  
 Cross Section -59.55 To 6465. %





MAT 7731 (n,2n):77-Ir-192g 77-Ir-193  
 Radionuclide Production Cross Section 89.01 %

