

Program Complot  
(Version 2021-1)

by

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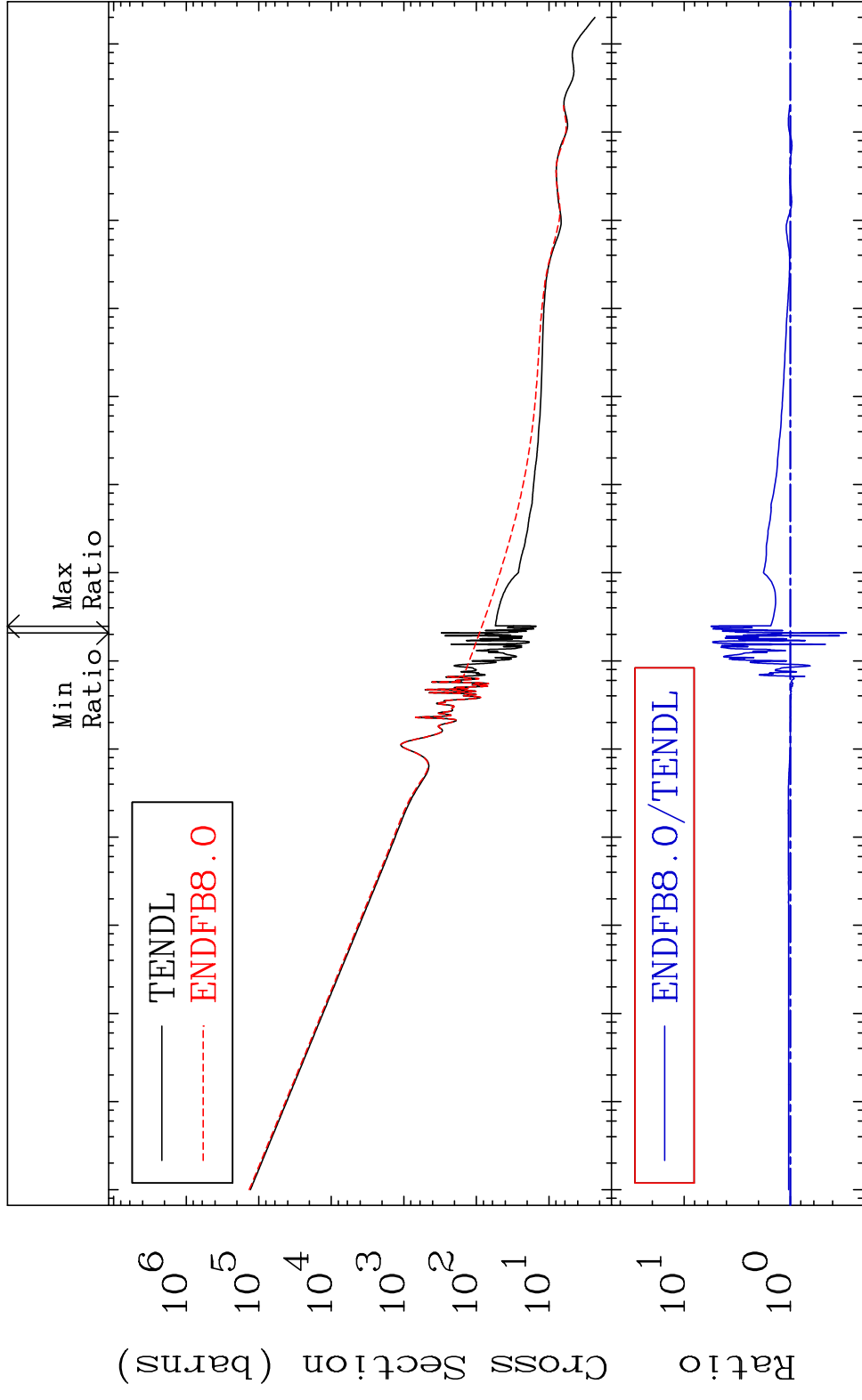
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 9349

Total  
Cross Section -70.29 To 462.9 %

93-Np-238



10<sup>6</sup>  
10<sup>5</sup>  
10<sup>4</sup>  
10<sup>3</sup>  
10<sup>2</sup>  
10<sup>1</sup>  
10<sup>0</sup>  
10<sup>-1</sup>  
10<sup>-2</sup>  
10<sup>-3</sup>  
10<sup>-4</sup>  
10<sup>-5</sup>

10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

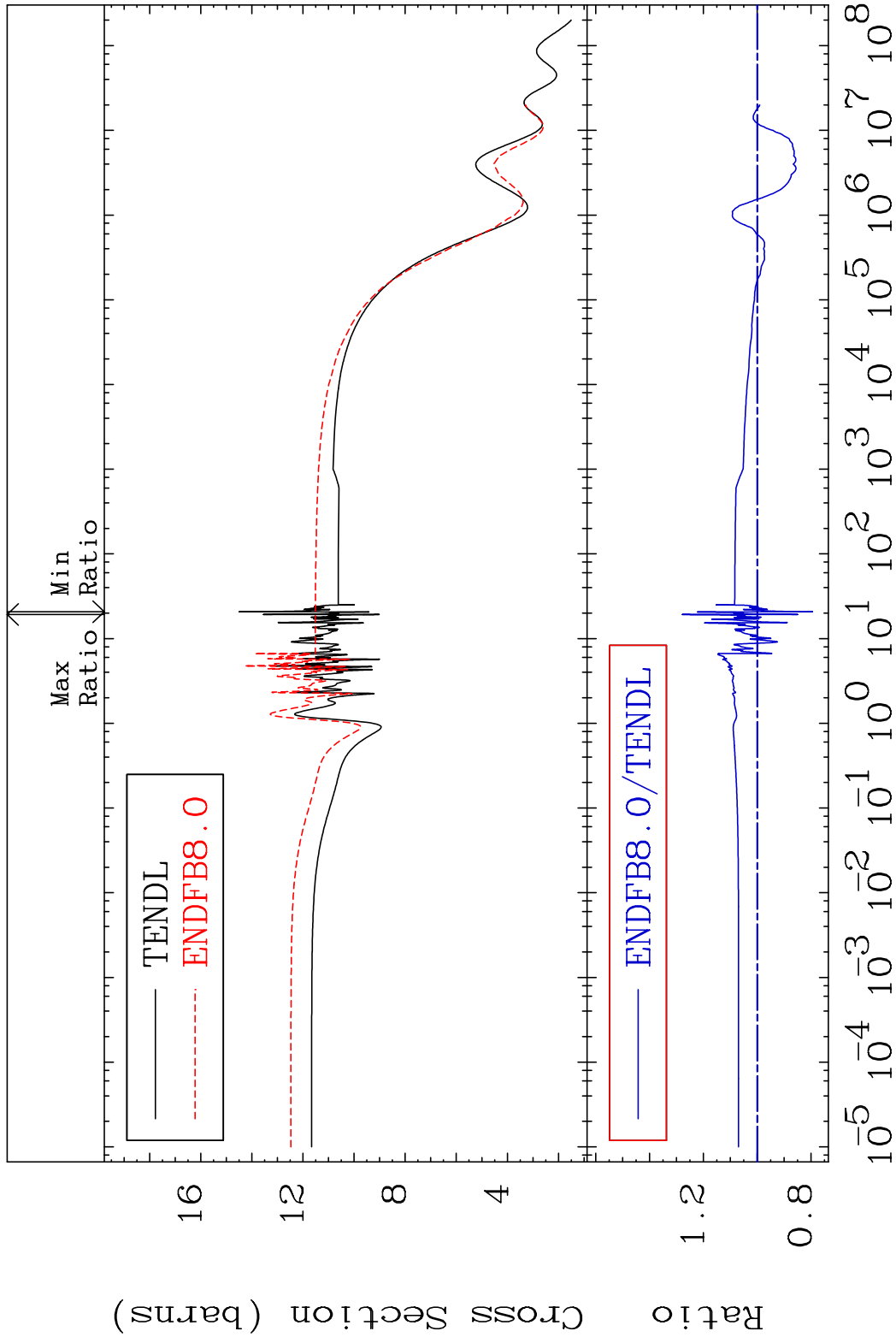
1 Incident Energy (eV) 93-Np-238

MAT 9349

Elastic

93-Np-238

Cross Section -20.54 To 27.84 %

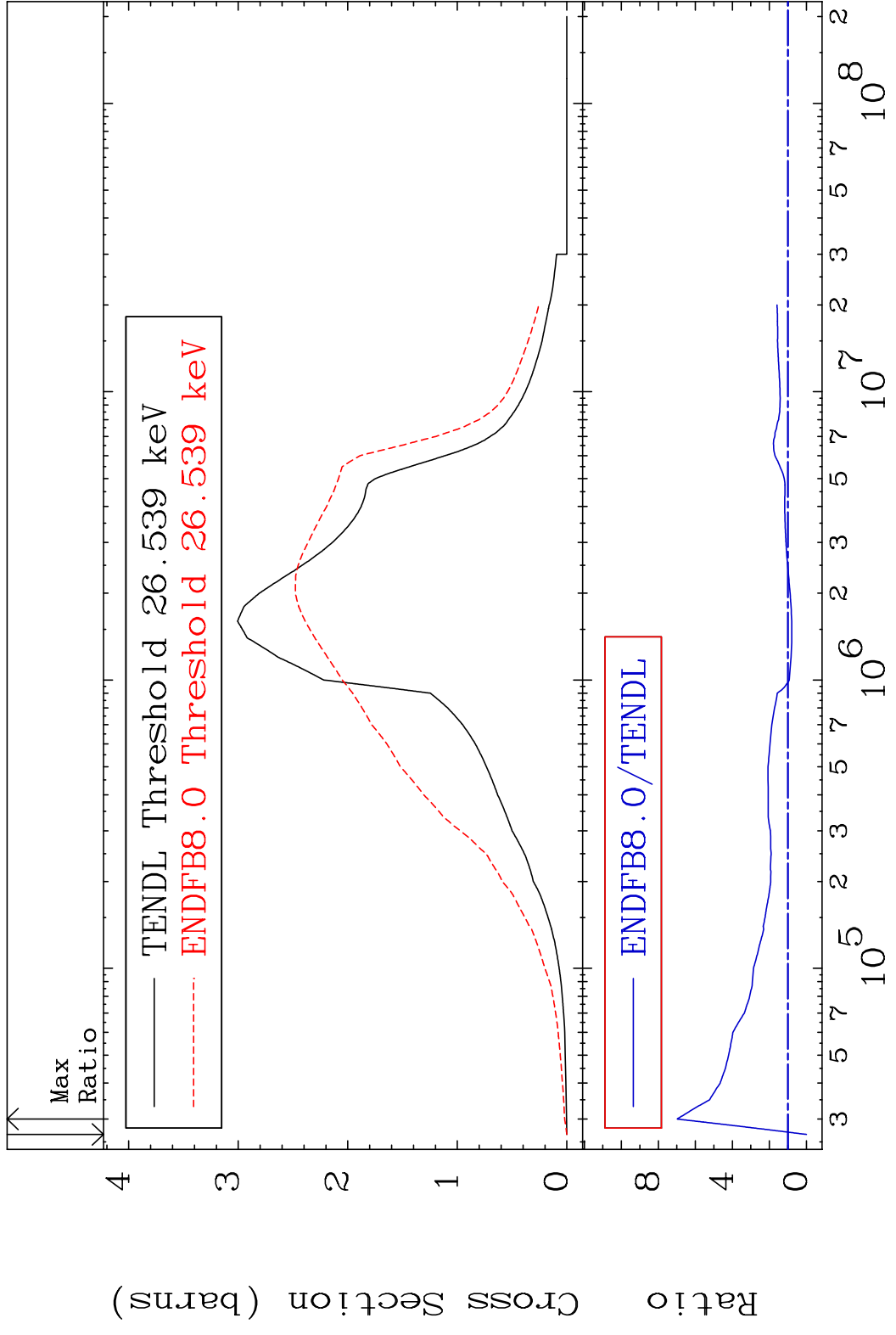


2

Incident Energy (eV)

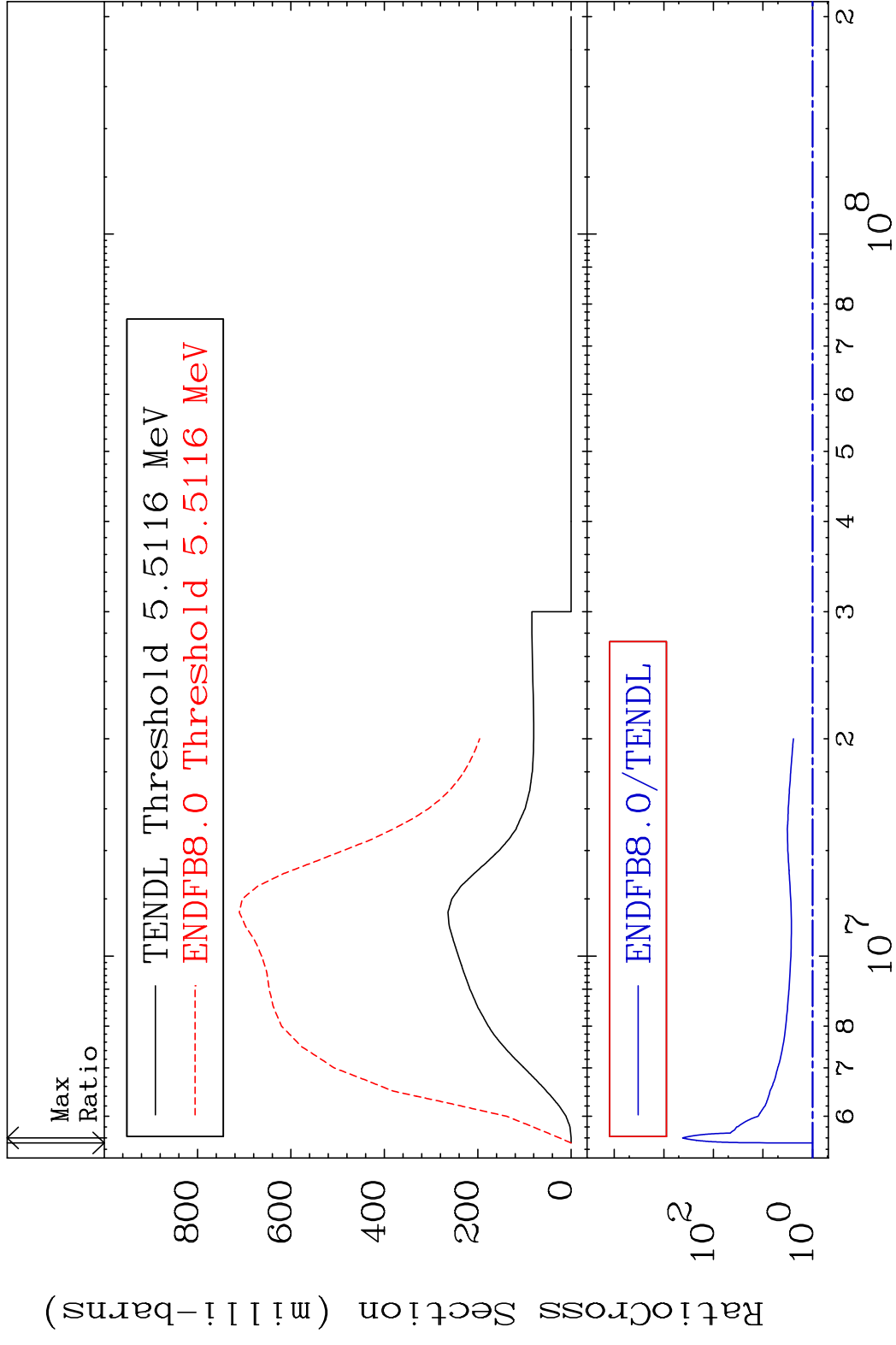
93-Np-238

MAT 9349                      Inelastic                      93-Np-238  
 Cross Section                      -100.0 To 598.2 %



3                                      Incident Energy (eV)                                      93-Np-238

MAT 9349 (n,2n) 93-Np-238  
 Cross Section 0.000 To 9999. %



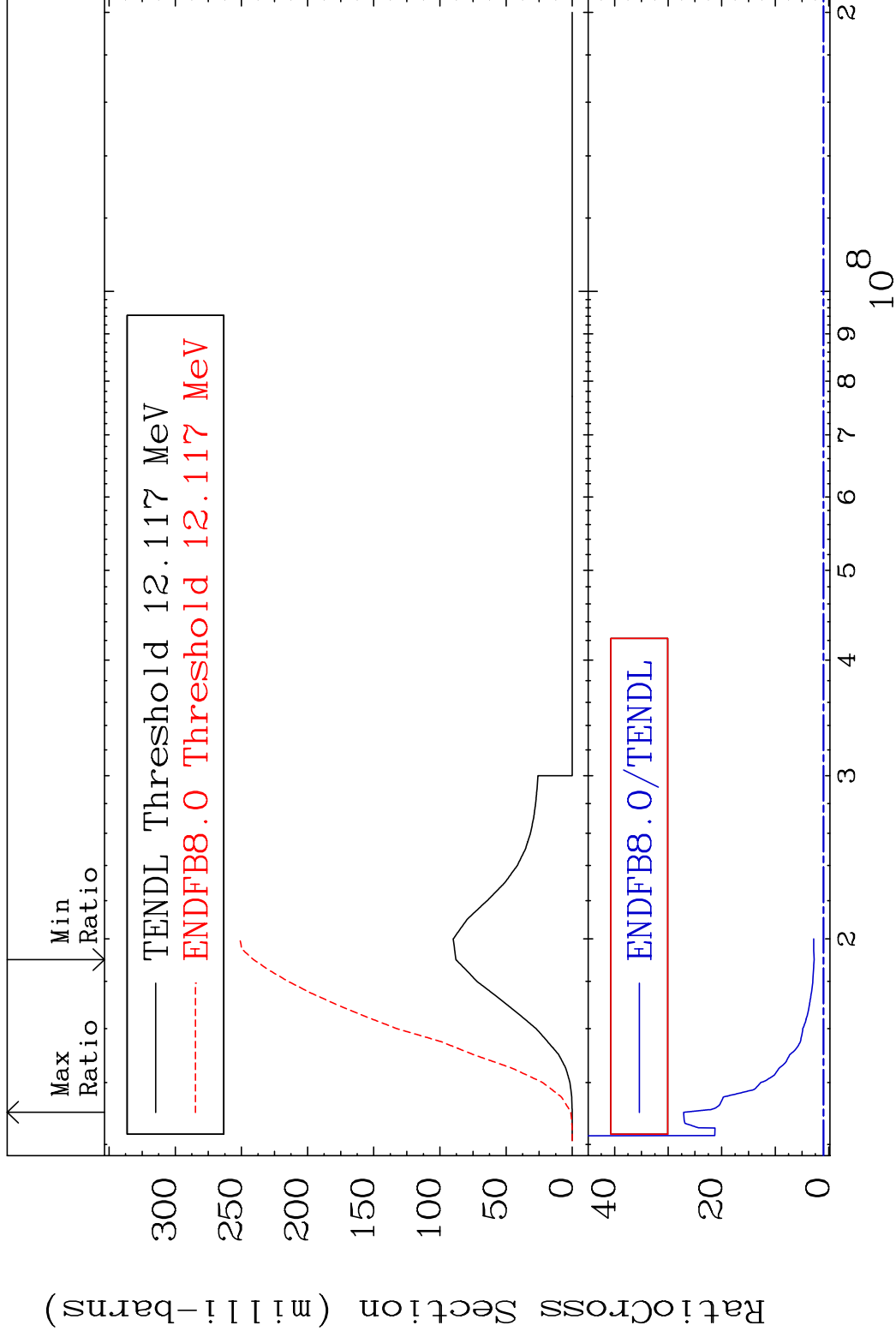
4 Incident Energy (eV) 93-Np-238

MAT 9349

(n,3n)

93-Np-238

Cross Section 173.9 To 2611. %



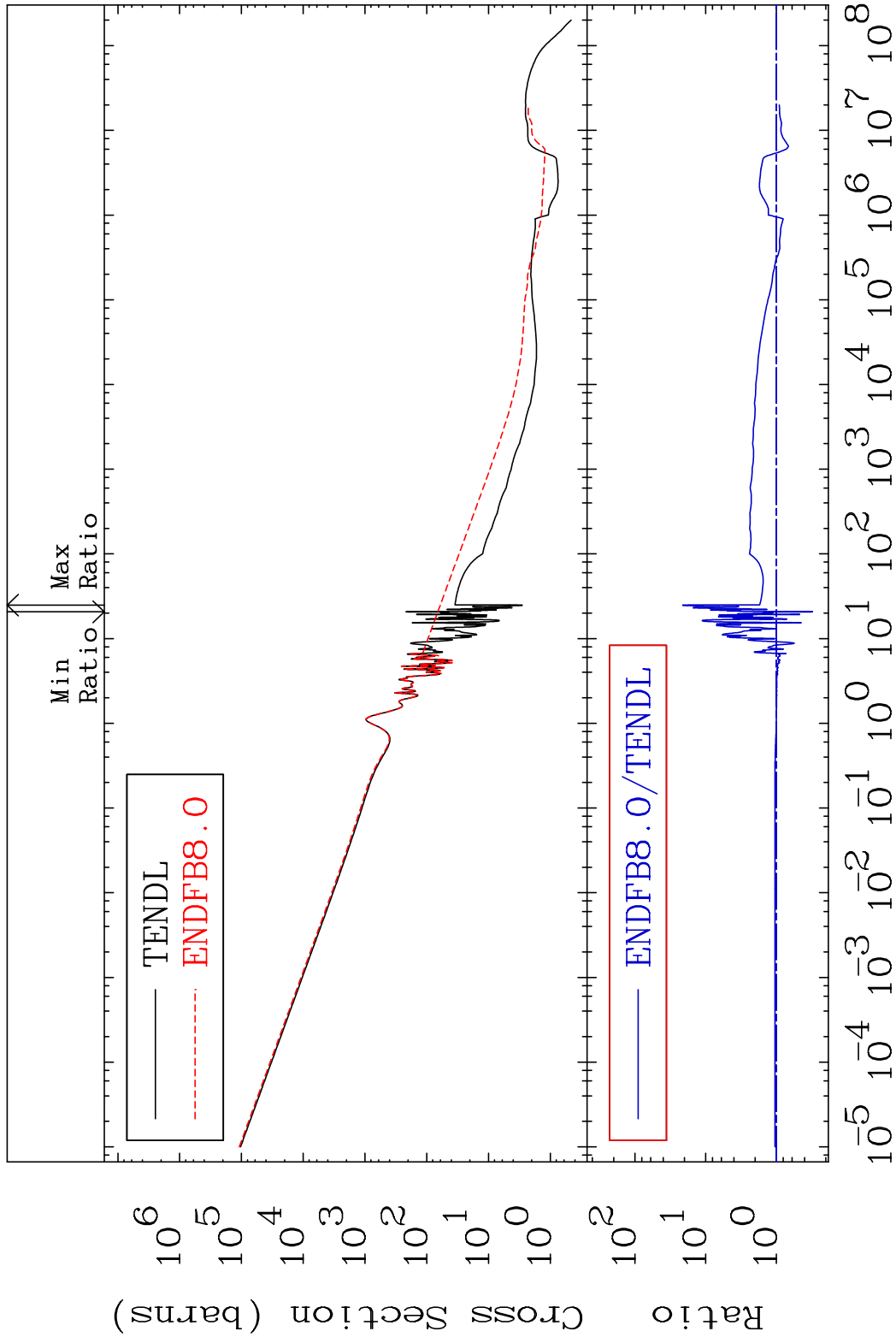
5

Incident Energy (eV)

93-Np-238

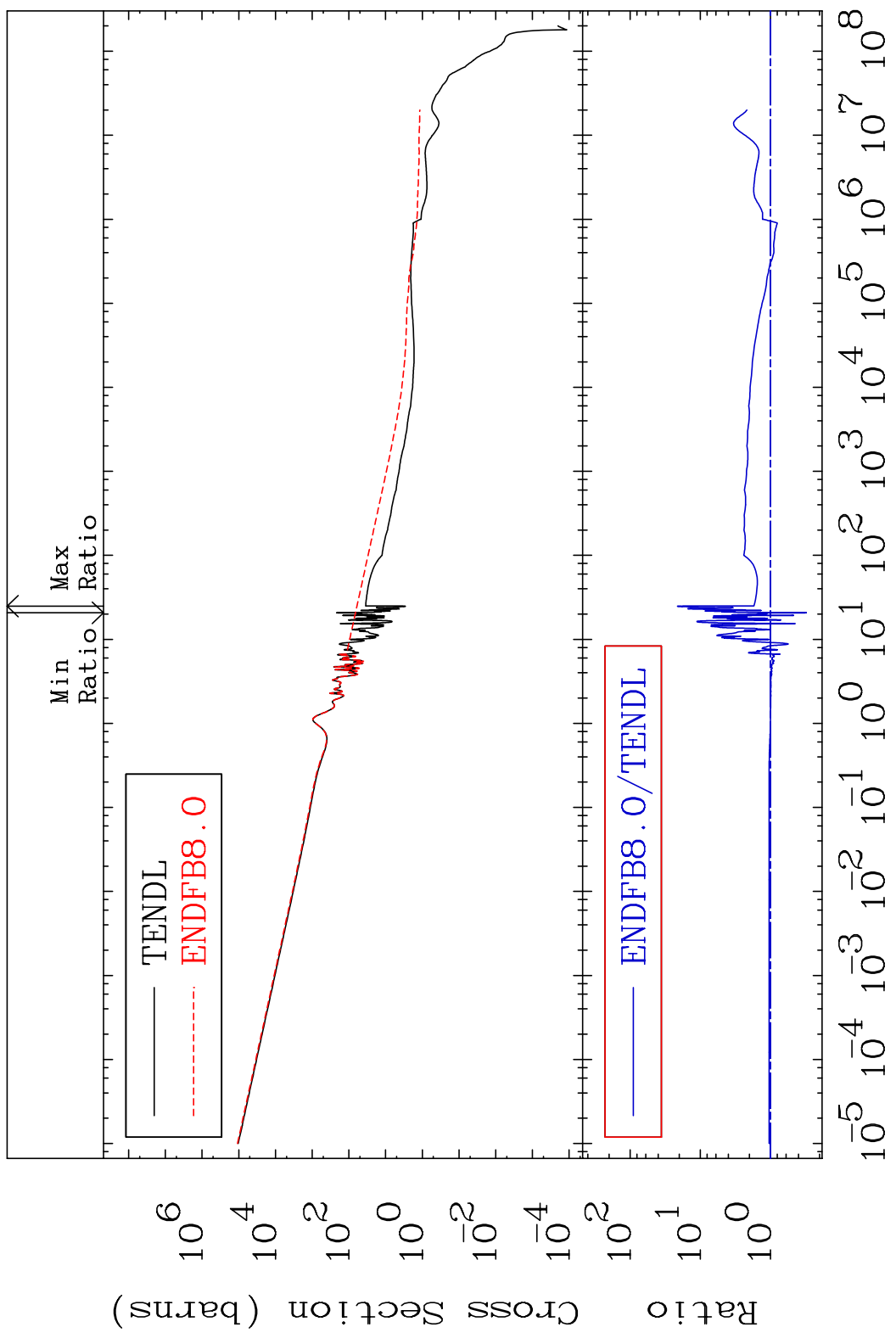
MAT 9349

Fission Cross Section -69.15 To 2039. %  
93-Np-238



MAT 9349

(n,f) First Chance 93-Np-238  
Cross Section -69.15 To 2039. %



7 Incident Energy (eV) 93-Np-238

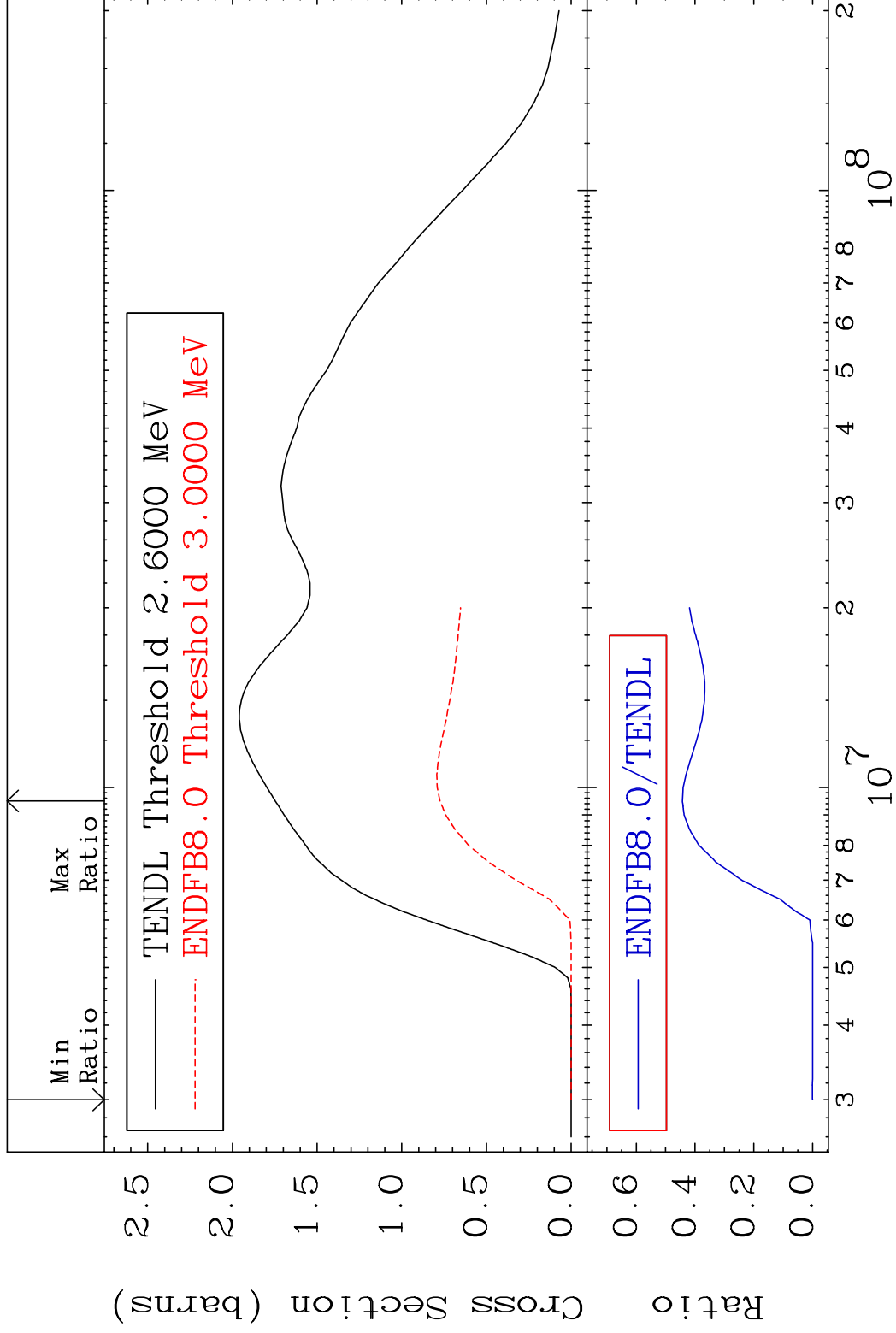


MAT 9349

(n, nf) Second Chance

93-Np-238

Cross Section -100.0 To -55.70%

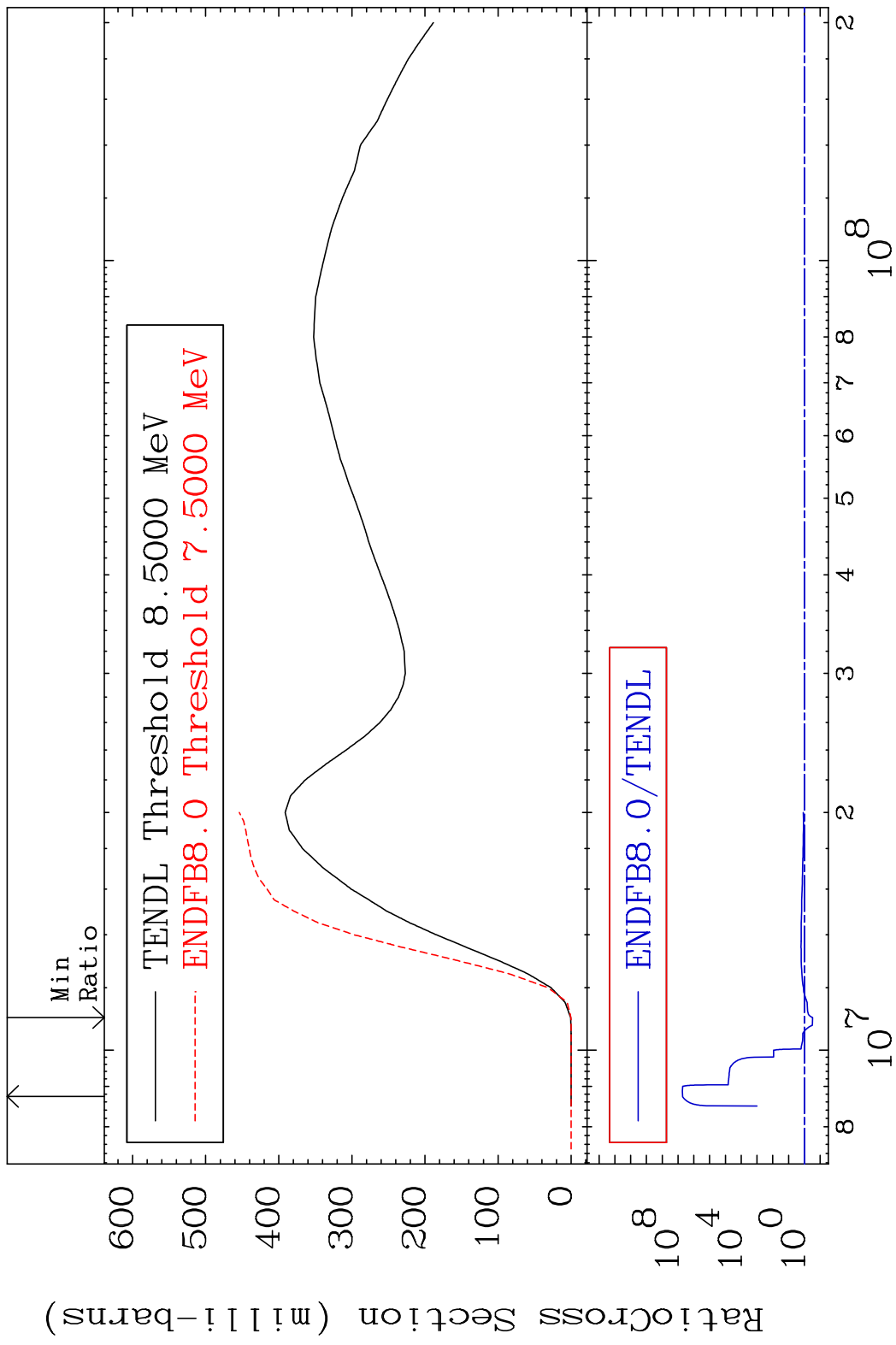


8

Incident Energy (eV)

93-Np-238

MAT 9349 (n,2nf) Third Chance 93-Np-238  
 Cross Section -69.72 To 9999. %



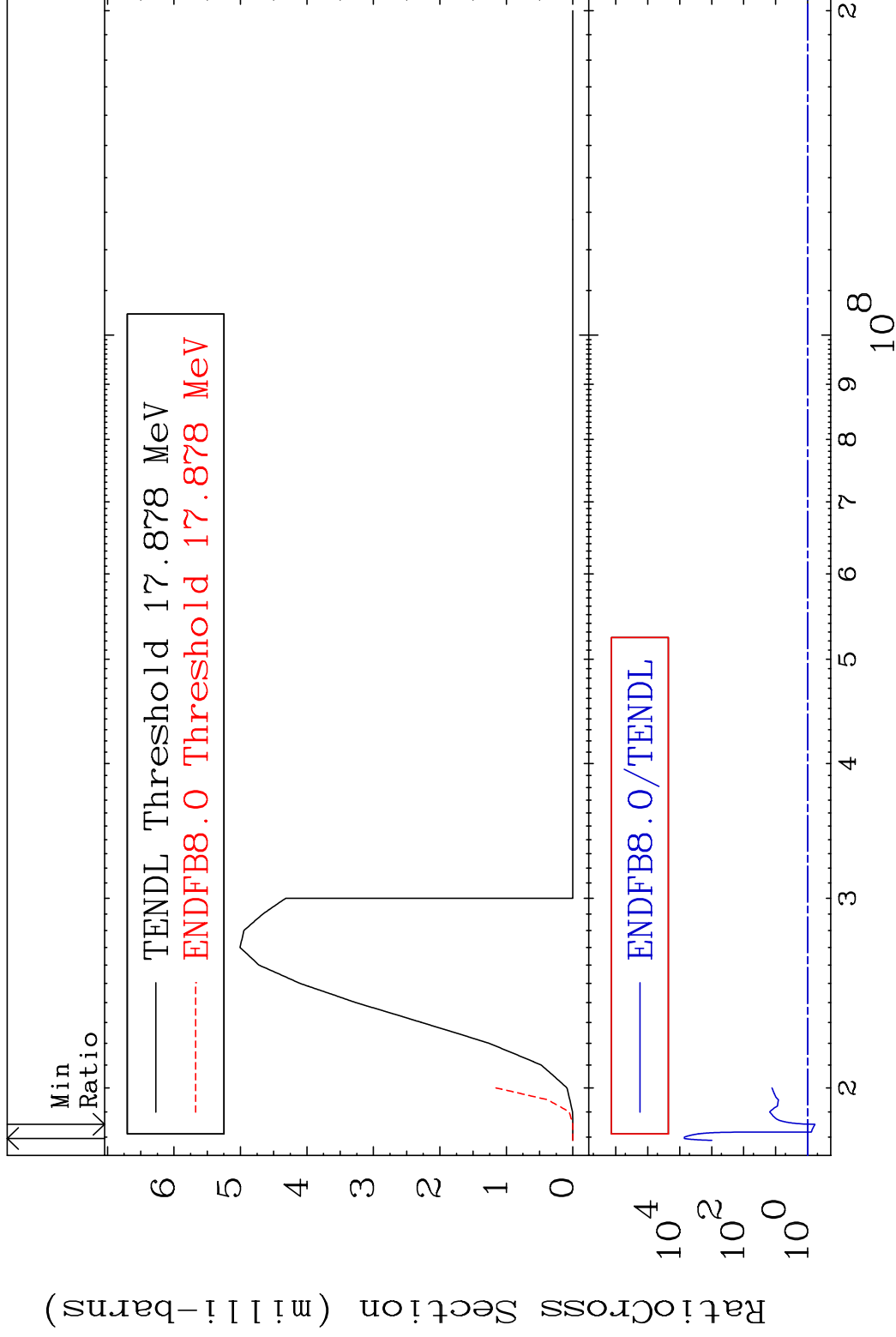
9 93-Np-238

MAT 9349

(n, 4n)

93-Np-238

Cross Section -40.34 To 9999. %

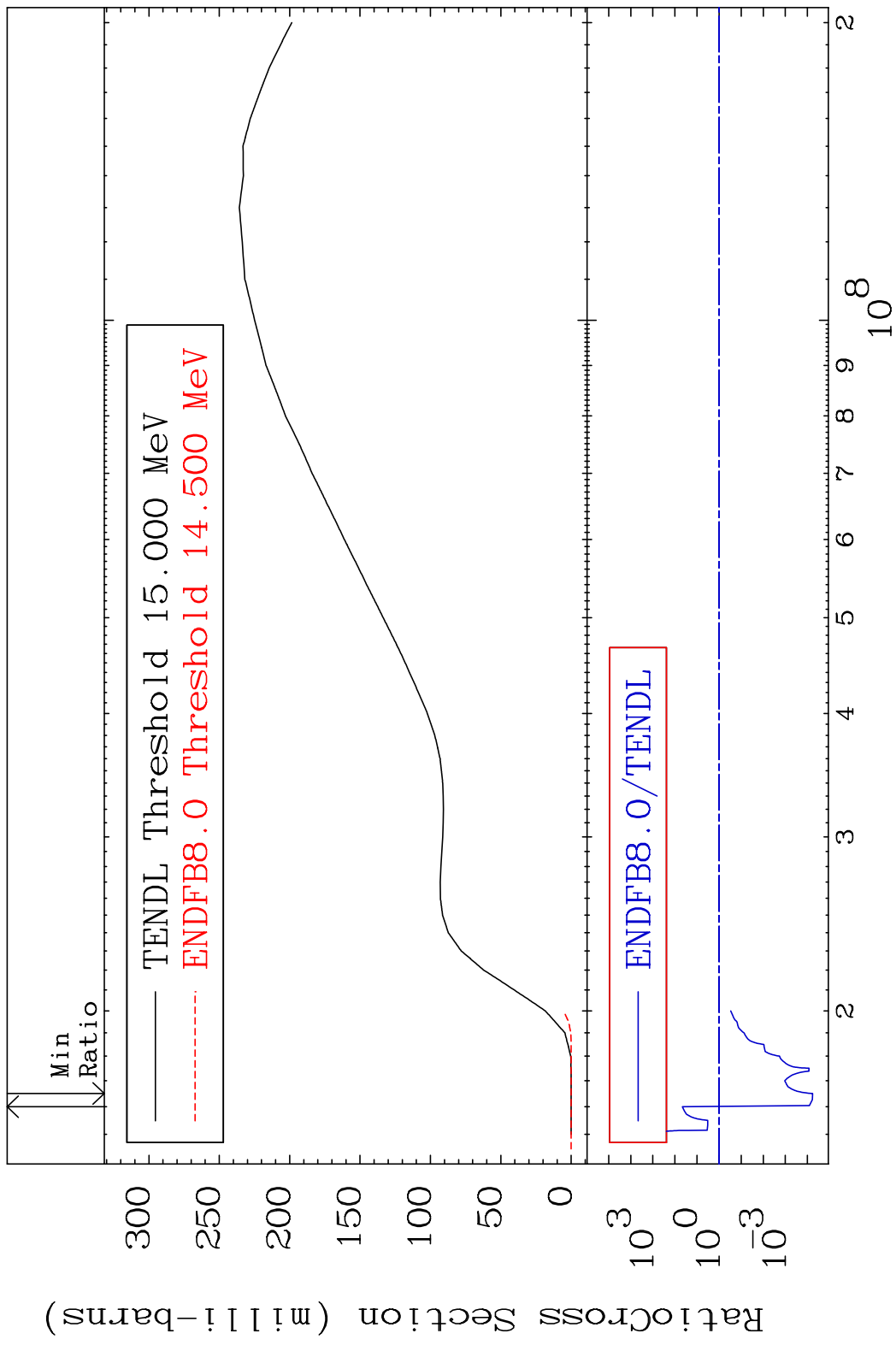


10

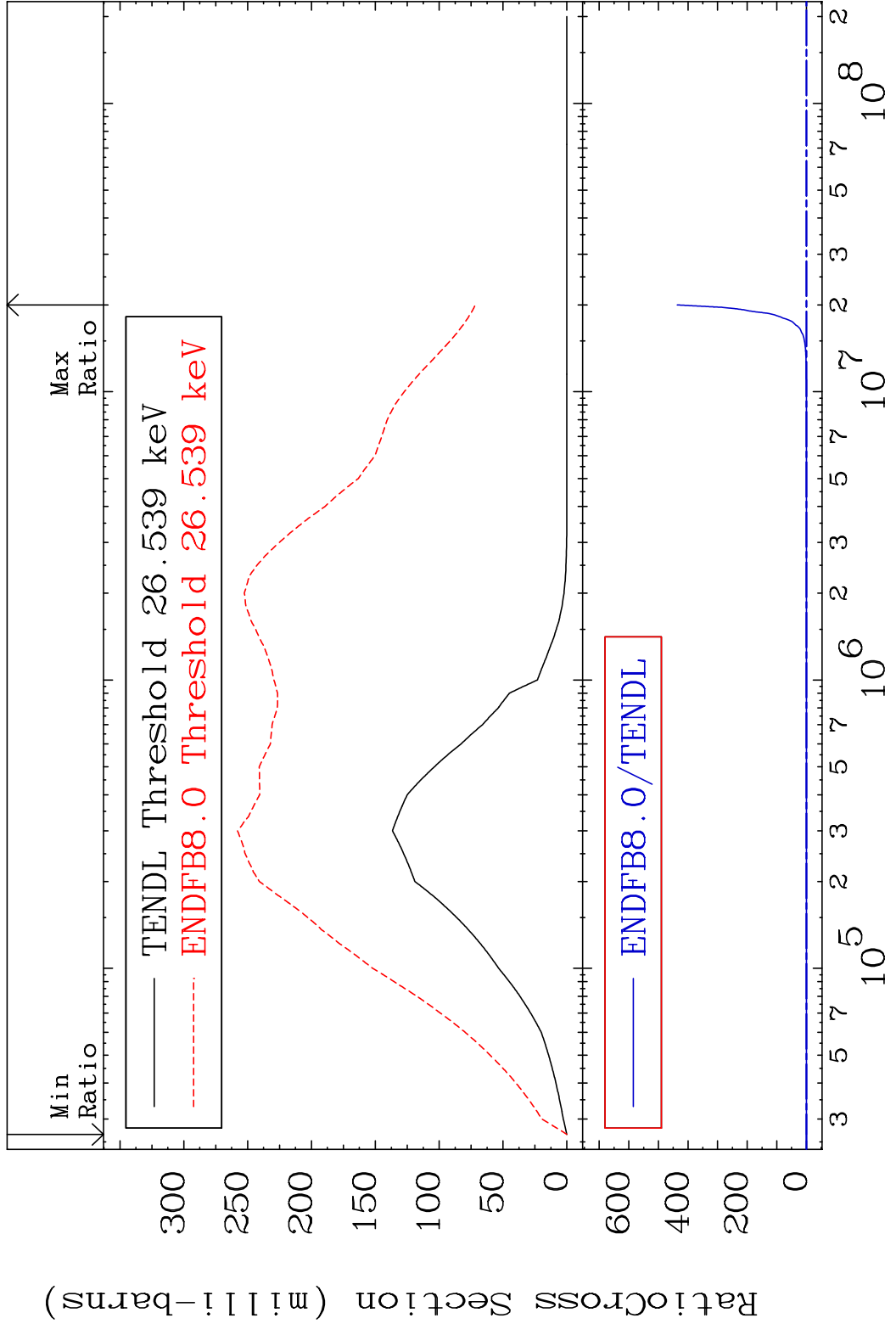
Incident Energy (eV)

93-Np-238

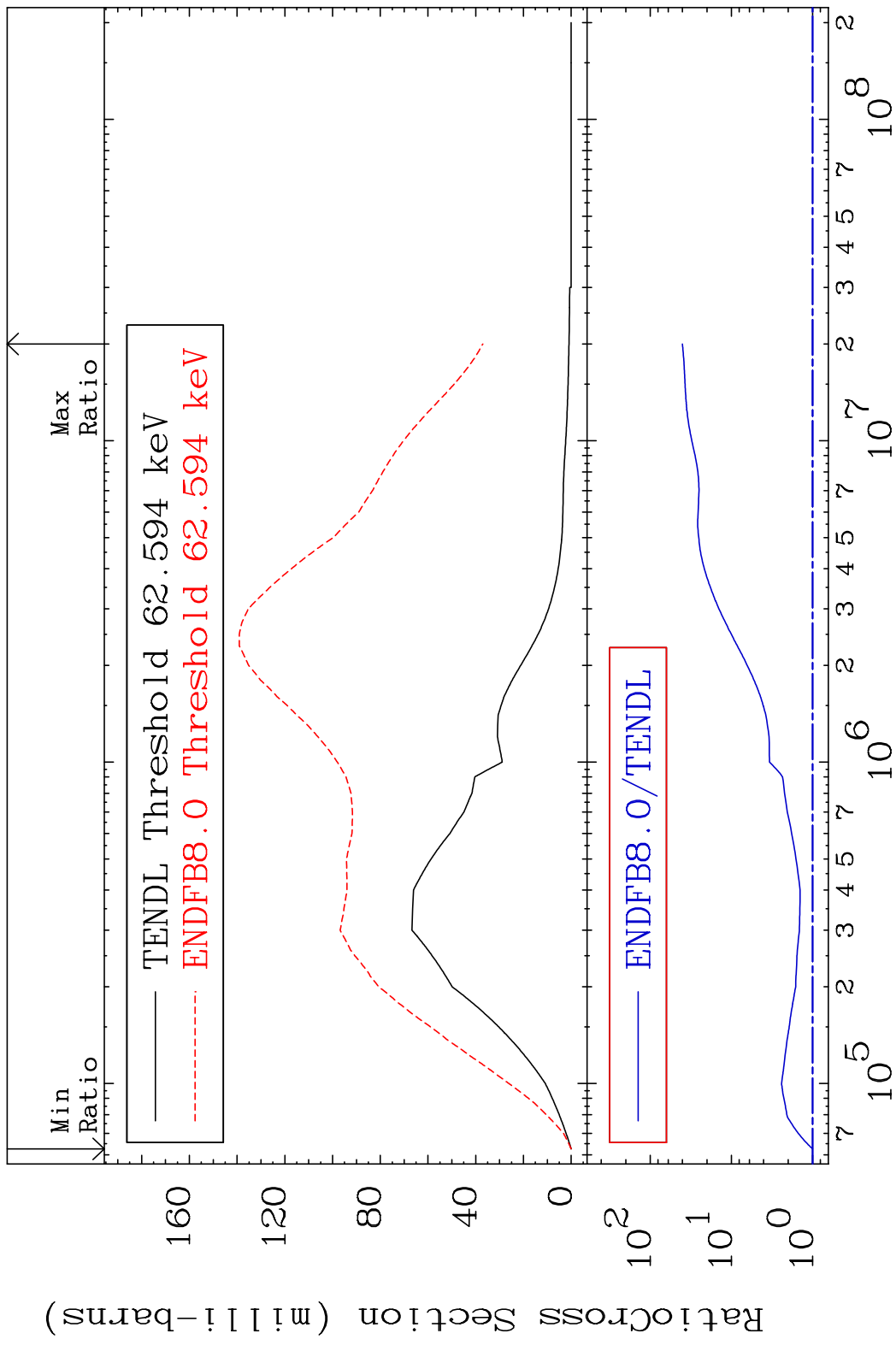
MAT 9349 (n,3nf) Fourth Chance 93-Np-238  
 Cross Section -99.99 To 4507. %



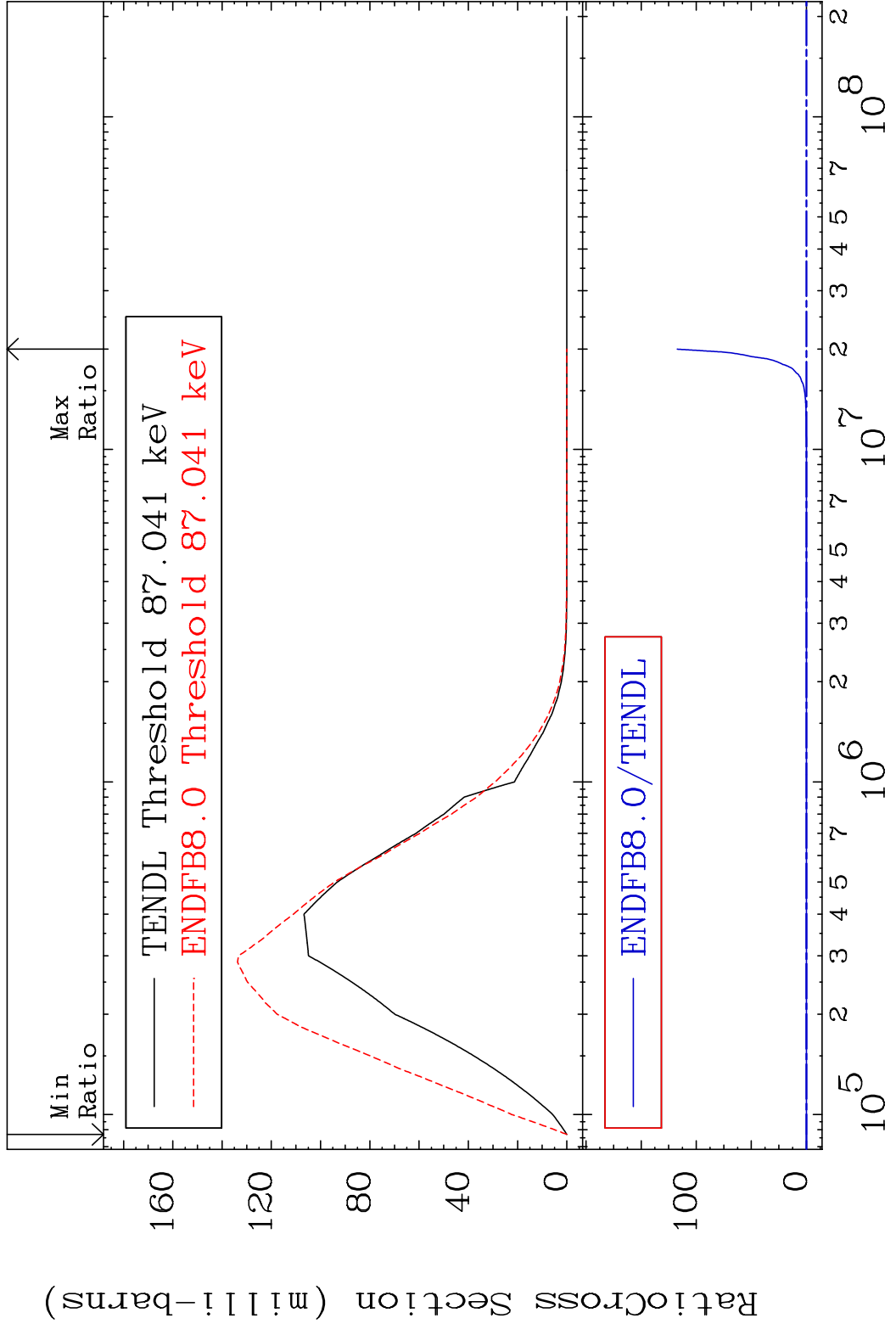
MAT 9349 MT= 51 (n, n') Level 93-Np-238  
 Cross Section -100.0 To 9999. %



MAT 9349 MT= 52 (n, n') Level 93-Np-238  
 Cross Section 0.000 To 3914. %

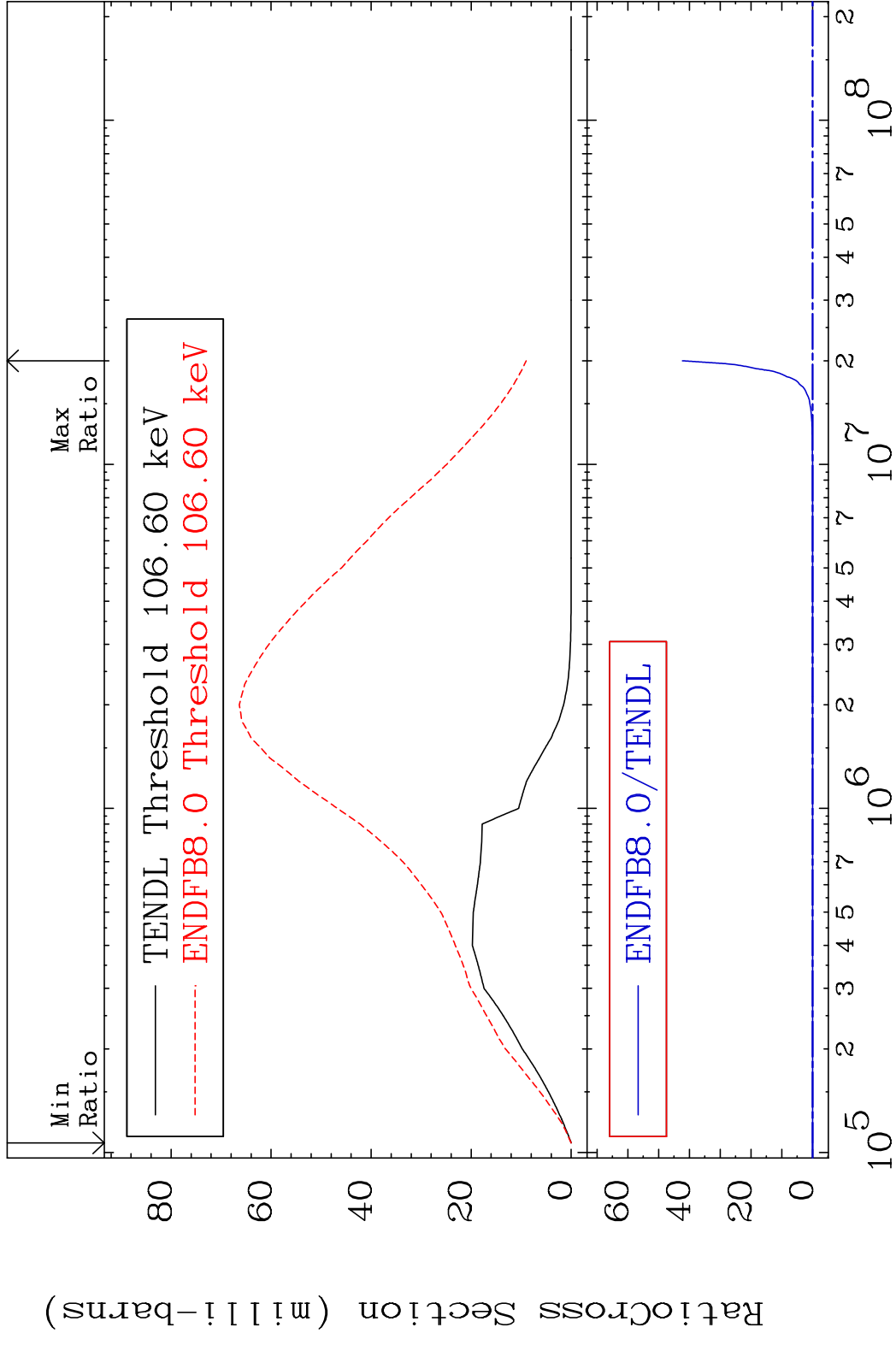


MAT 9349 MT= 53 (n, n') Level 93-Np-238  
 Cross Section -100.0 To 9999. %



14 Incident Energy (eV) 93-Np-238

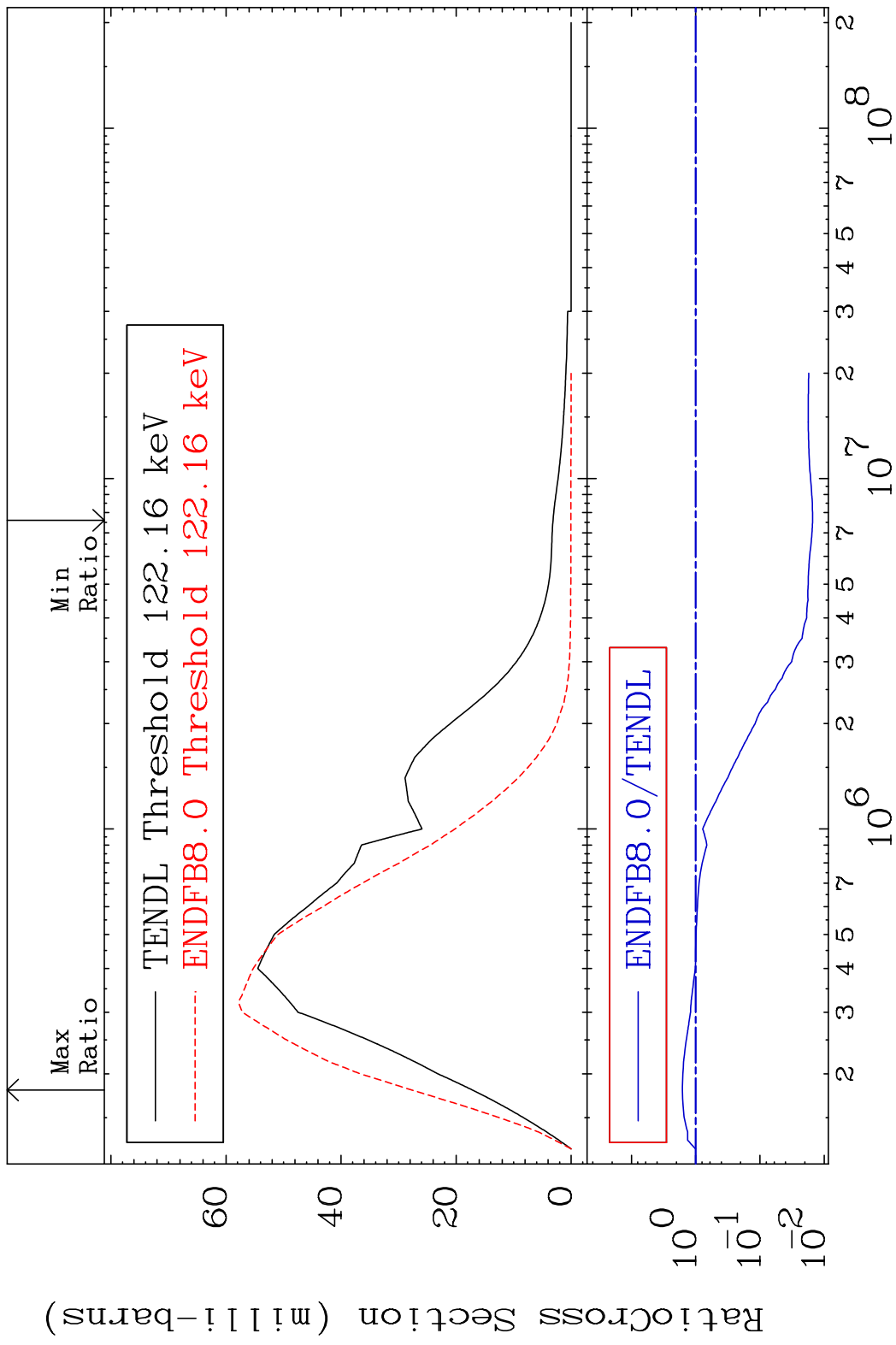
MAT 9349 MT= 54 (n, n') Level 93-Np-238  
 Cross Section -100.0 To 9999. %



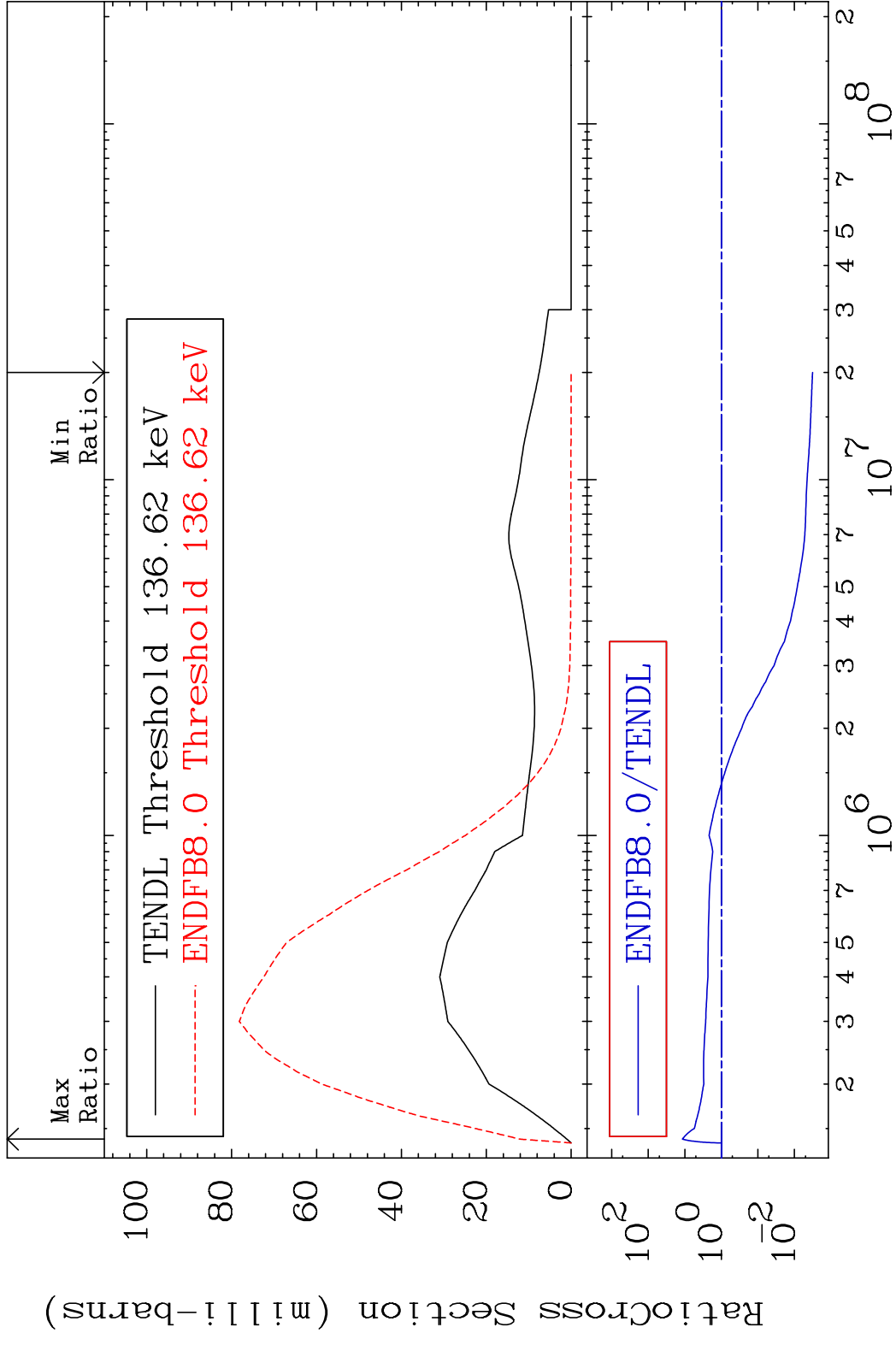
15 Incident Energy (eV) 93-Np-238



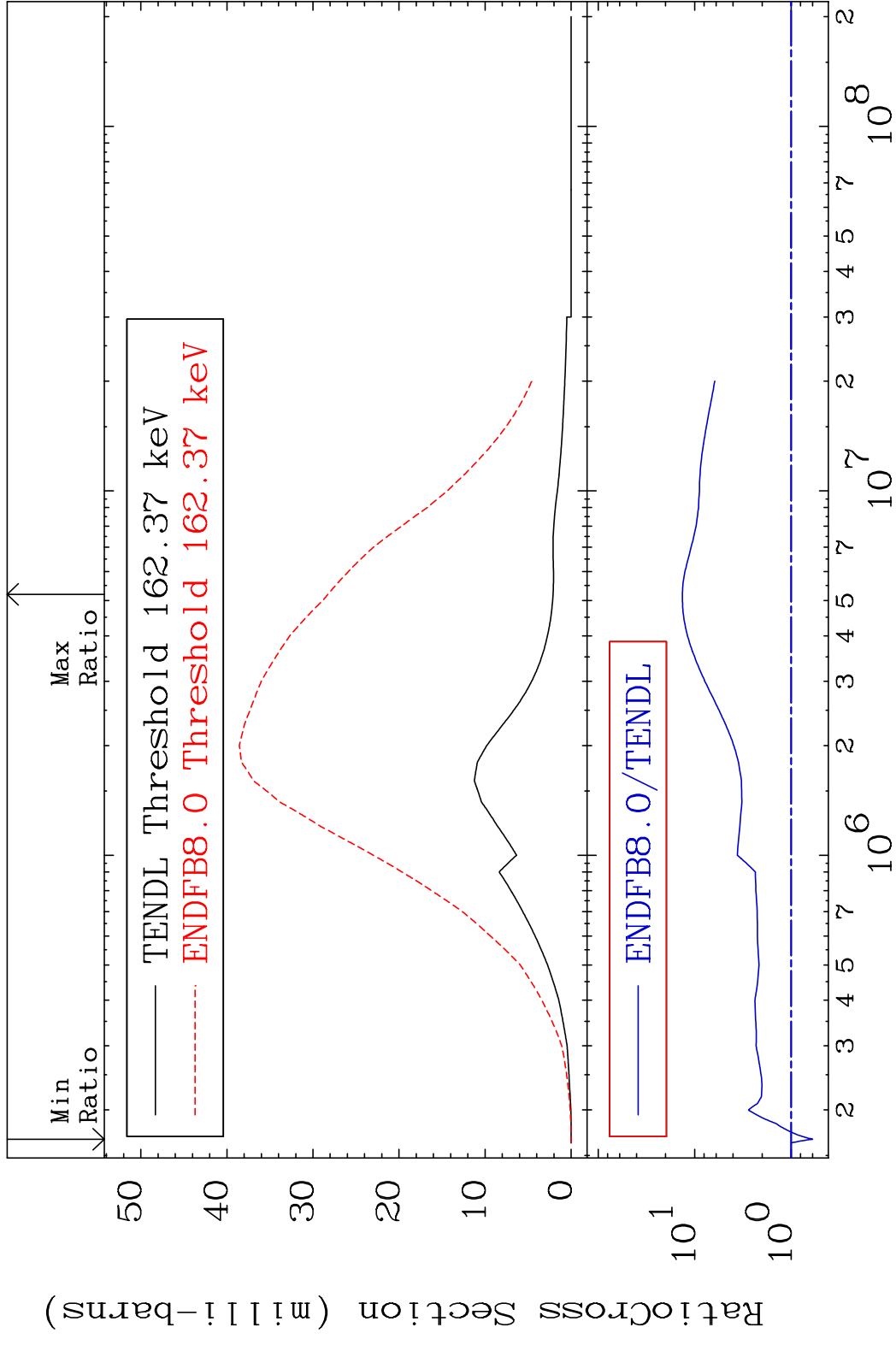
MAT 9349 MT= 55 (n, n') Level 93-Np-238  
 Cross Section -98.48 To 61.45 %



MAT 9349 MT= 56 (n, n') Level 93-Np-238  
 Cross Section -99.68 To 1067. %



MAT 9349 MT= 57 (n, n') Level 93-Np-238  
 Cross Section -39.96 To 1242. %

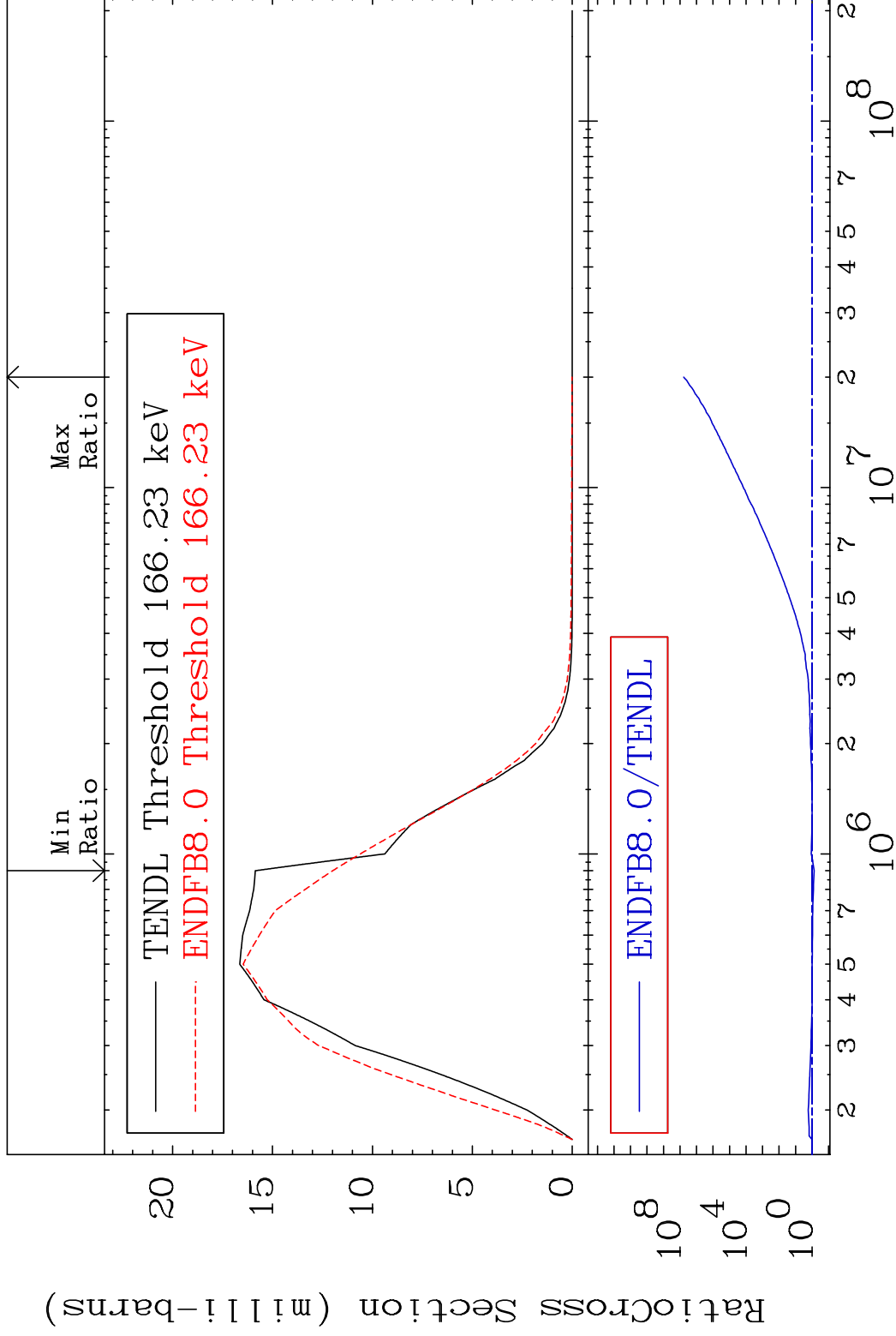


MAT 9349

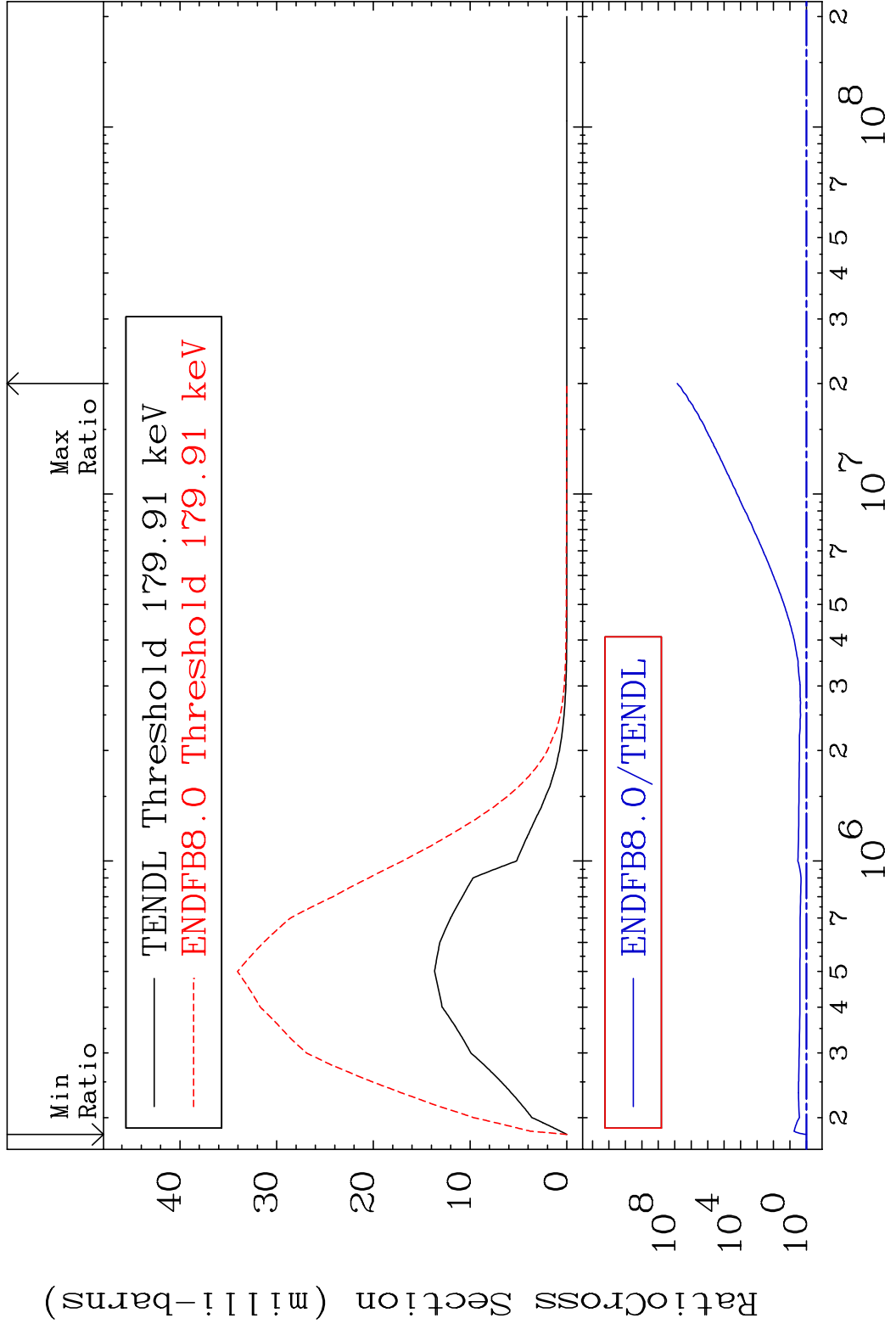
MT= 58 (n, n') Level

93-Np-238

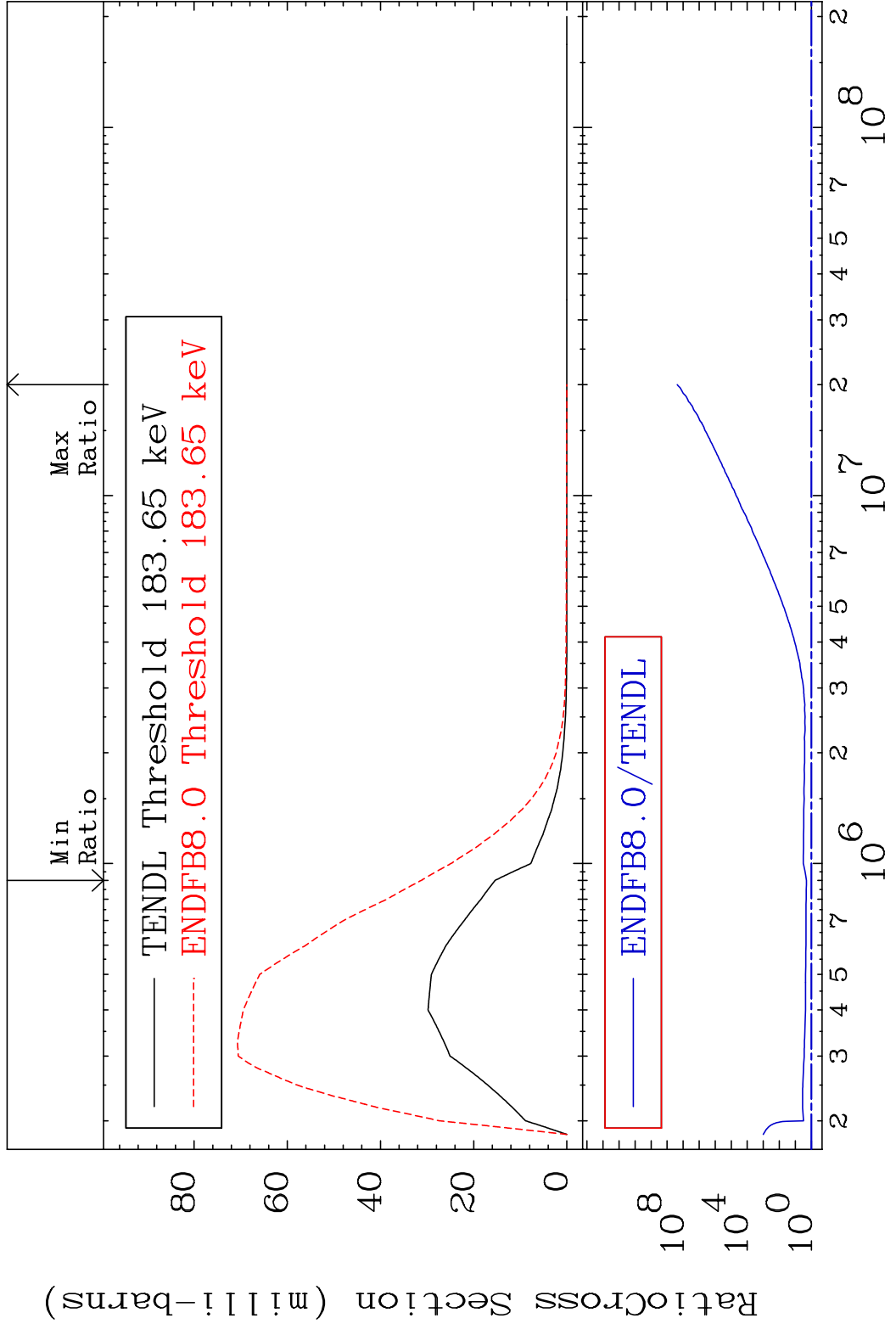
Cross Section -24.44 To 9999. %



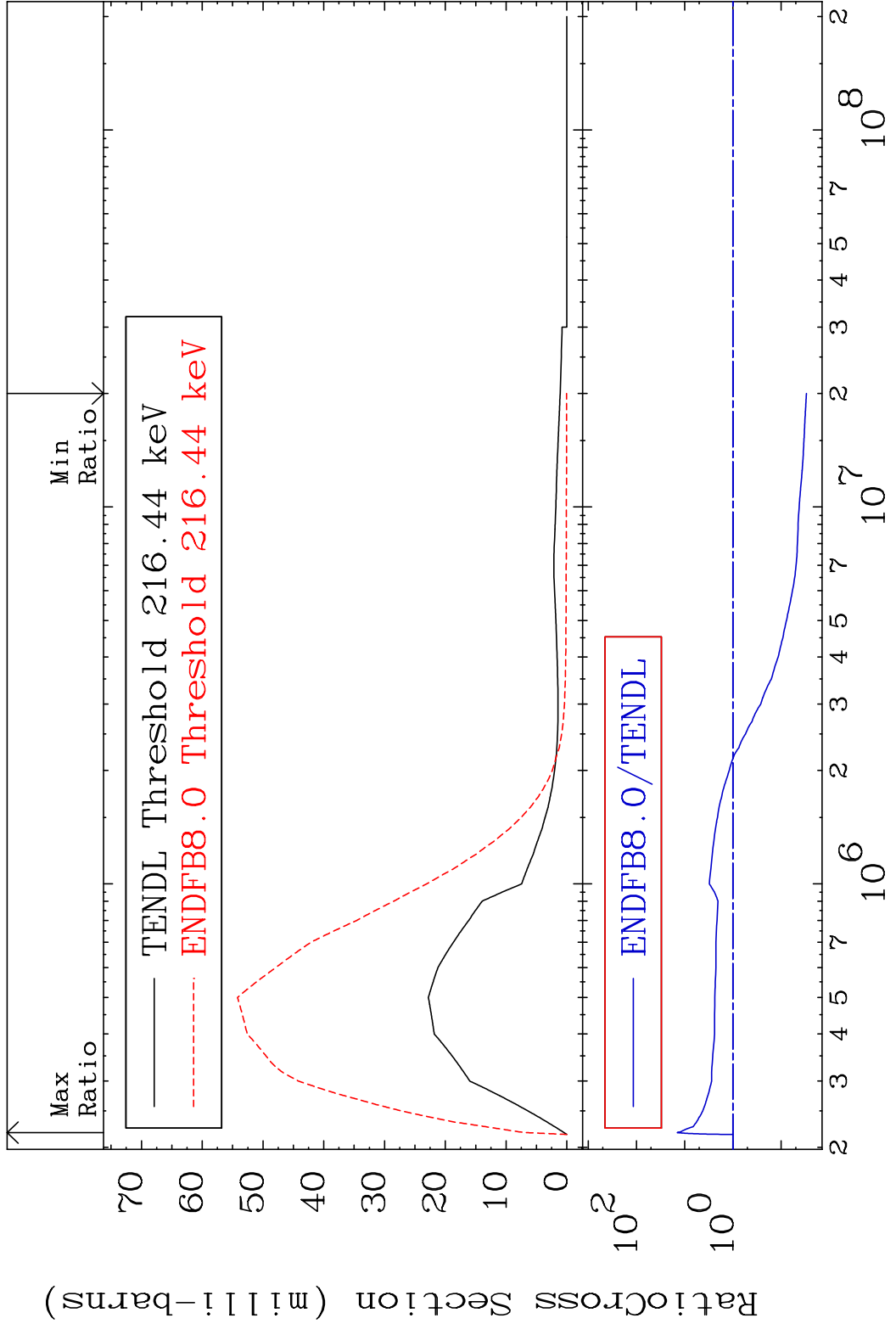
MAT 9349 MT= 59 (n, n') Level 93-Np-238  
 Cross Section 0.000 To 9999. %



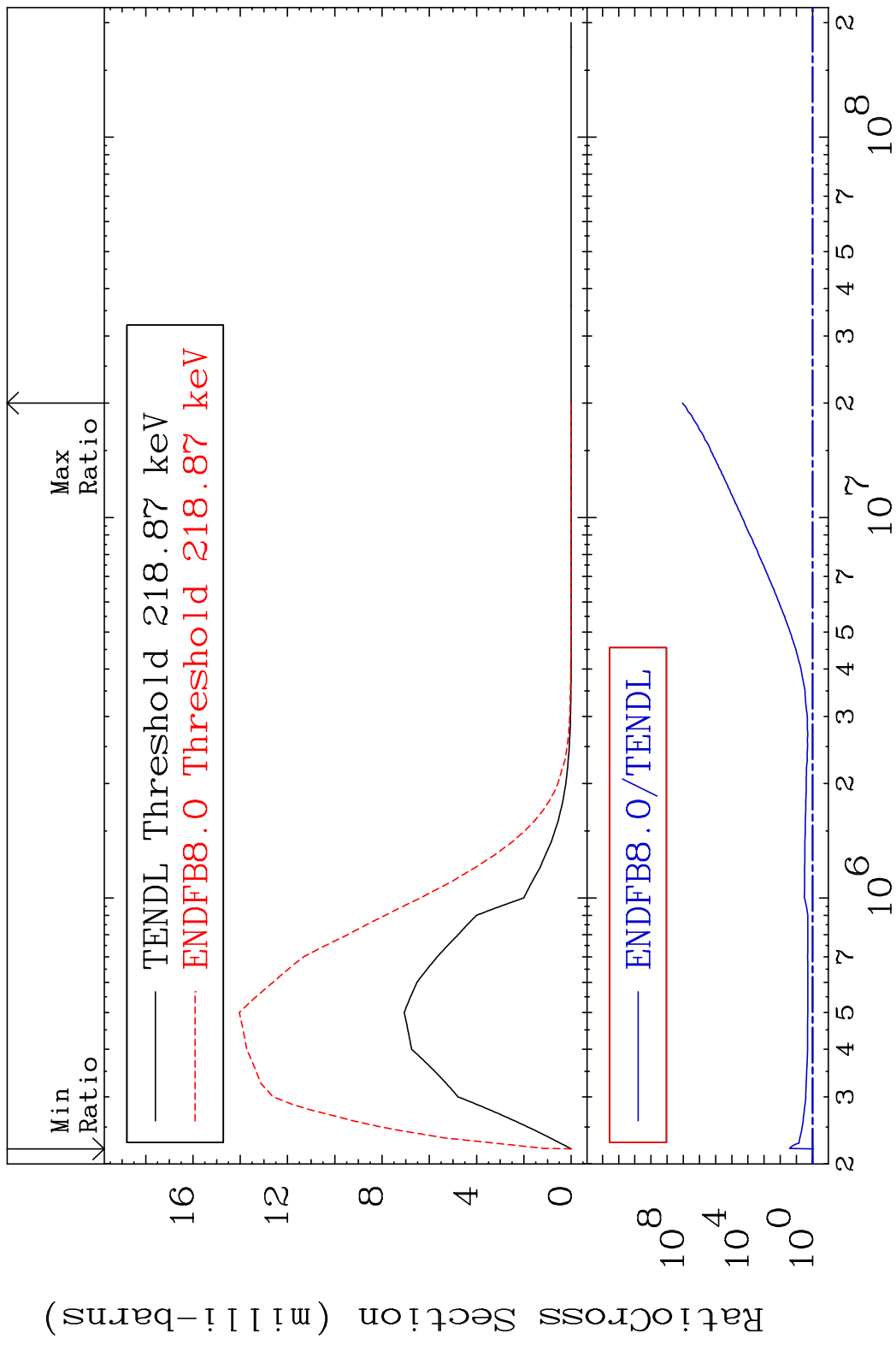
MAT 9349 MT= 60 (n, n') Level 93-Np-238  
 Cross Section 102.9 To 9999. %



MAT 9349 MT= 61 (n, n') Level 93-Np-238  
 Cross Section -97.00 To 1333. %

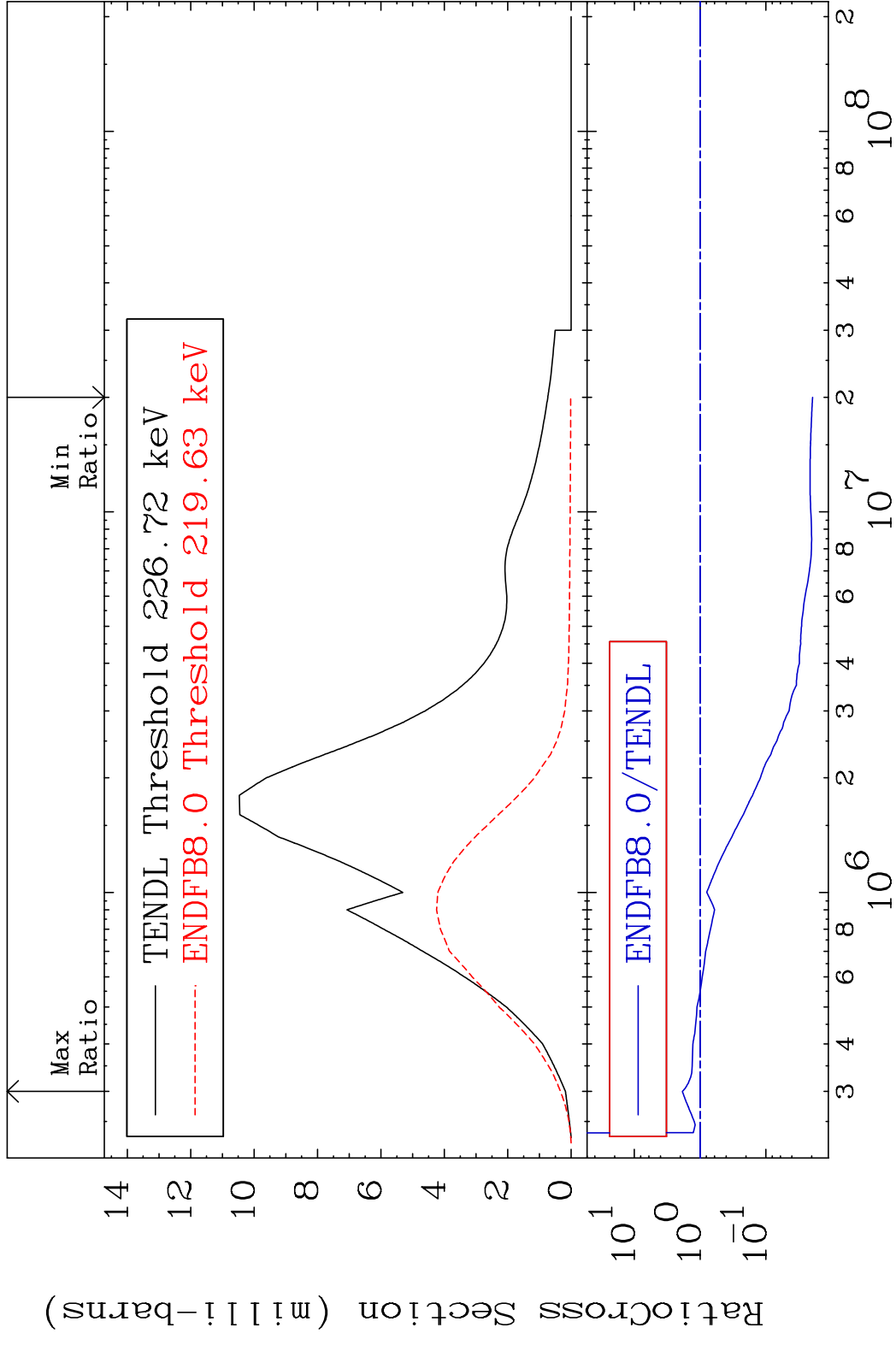


MAT 9349 MT= 62 (n, n') Level 93-Np-238  
 Cross Section 0.000 To 9999. %

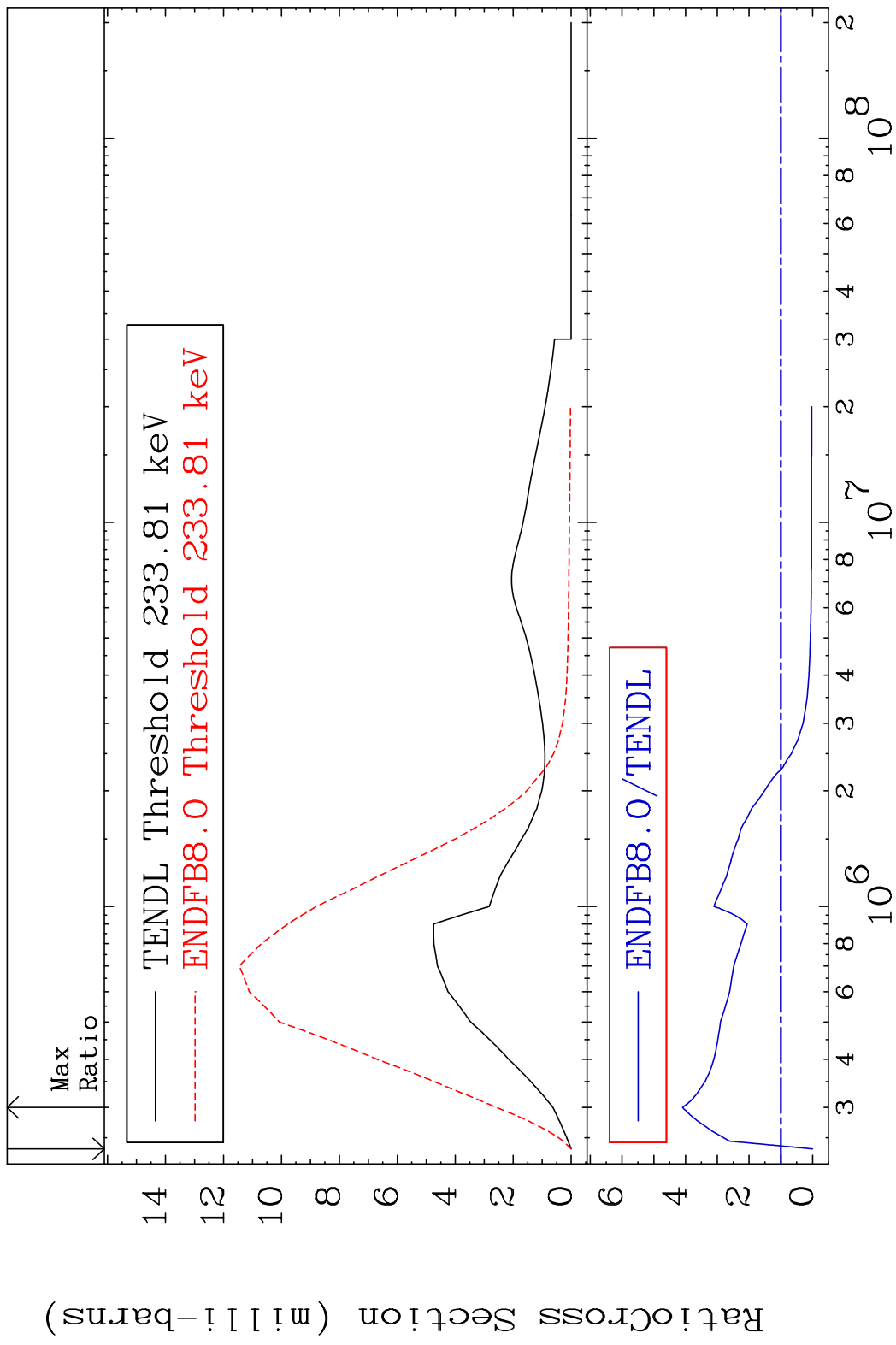




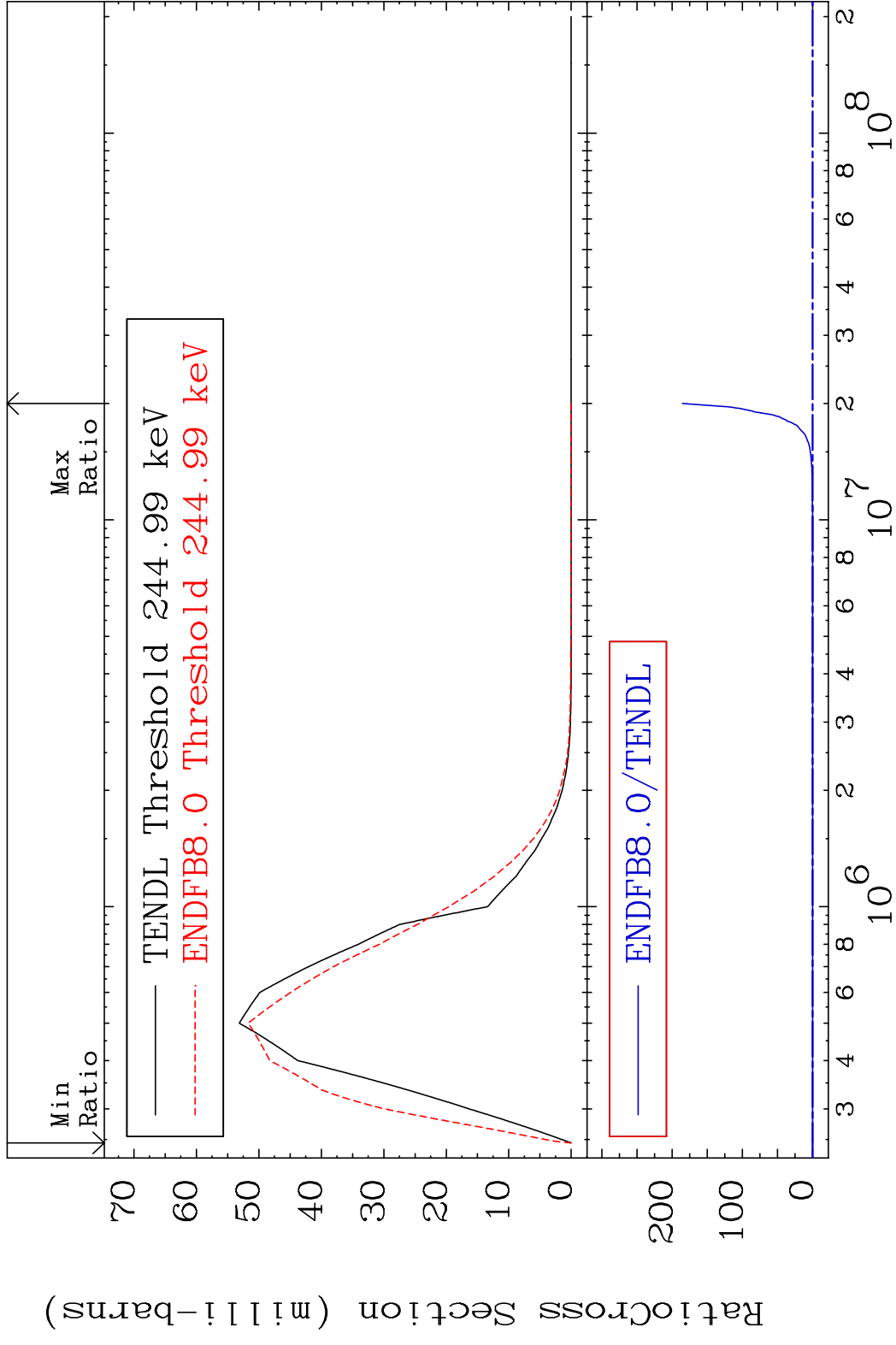
MAT 9349 MT= 63 (n, n') Level 93-Np-238  
 Cross Section -98.06 To 86.03 %



MAT 9349 MT= 64 (n, n') Level 93-Np-238  
 Cross Section -100.0 To 310.0 %



MAT 9349 MT= 65 (n, n') Level 93-Np-238  
 Cross Section -100.0 To 9999. %

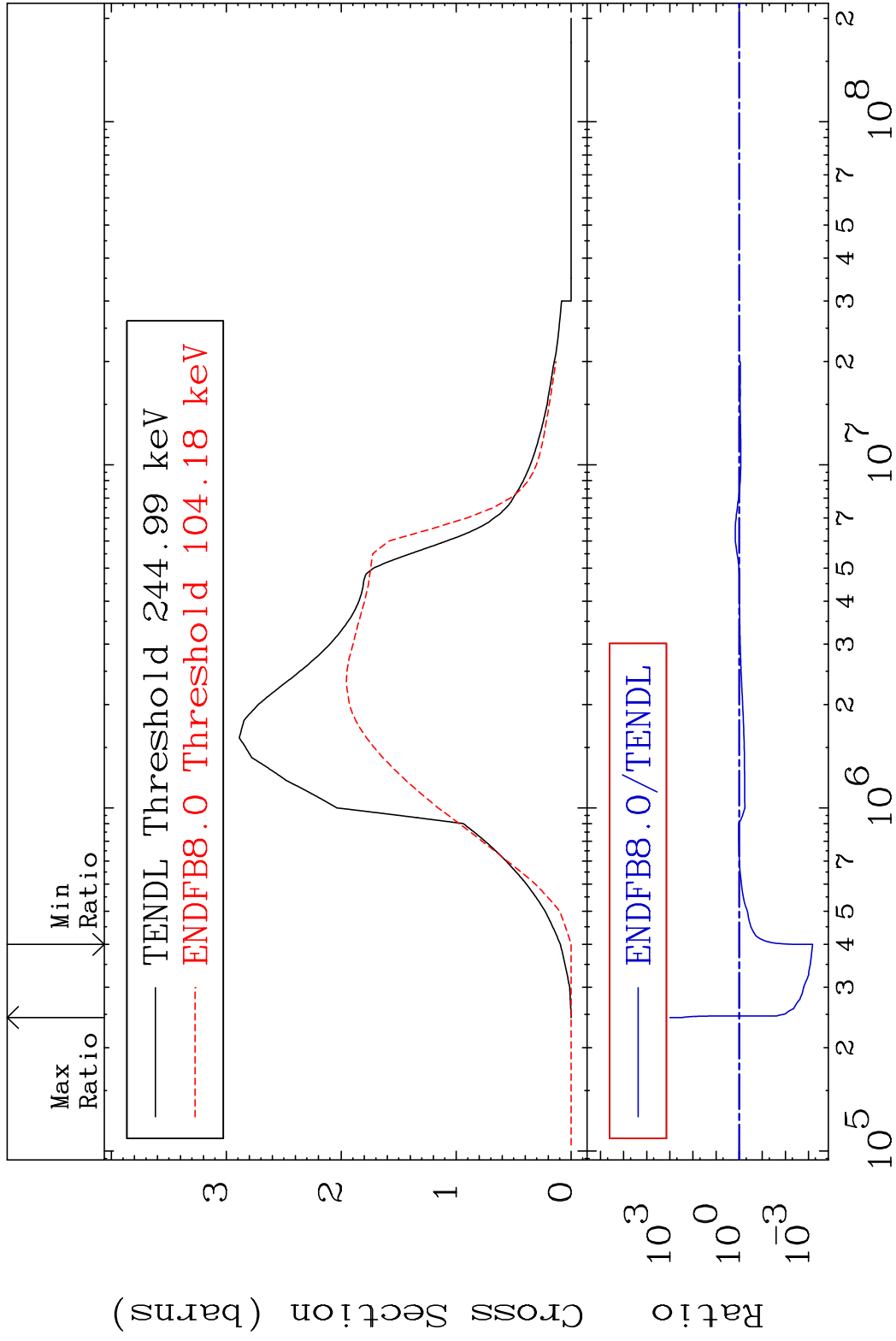


MAT 9349

(n,n') Continuum

93-Np-238

Cross Section -99.93 To 9999. %



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Incident Energy (eV)

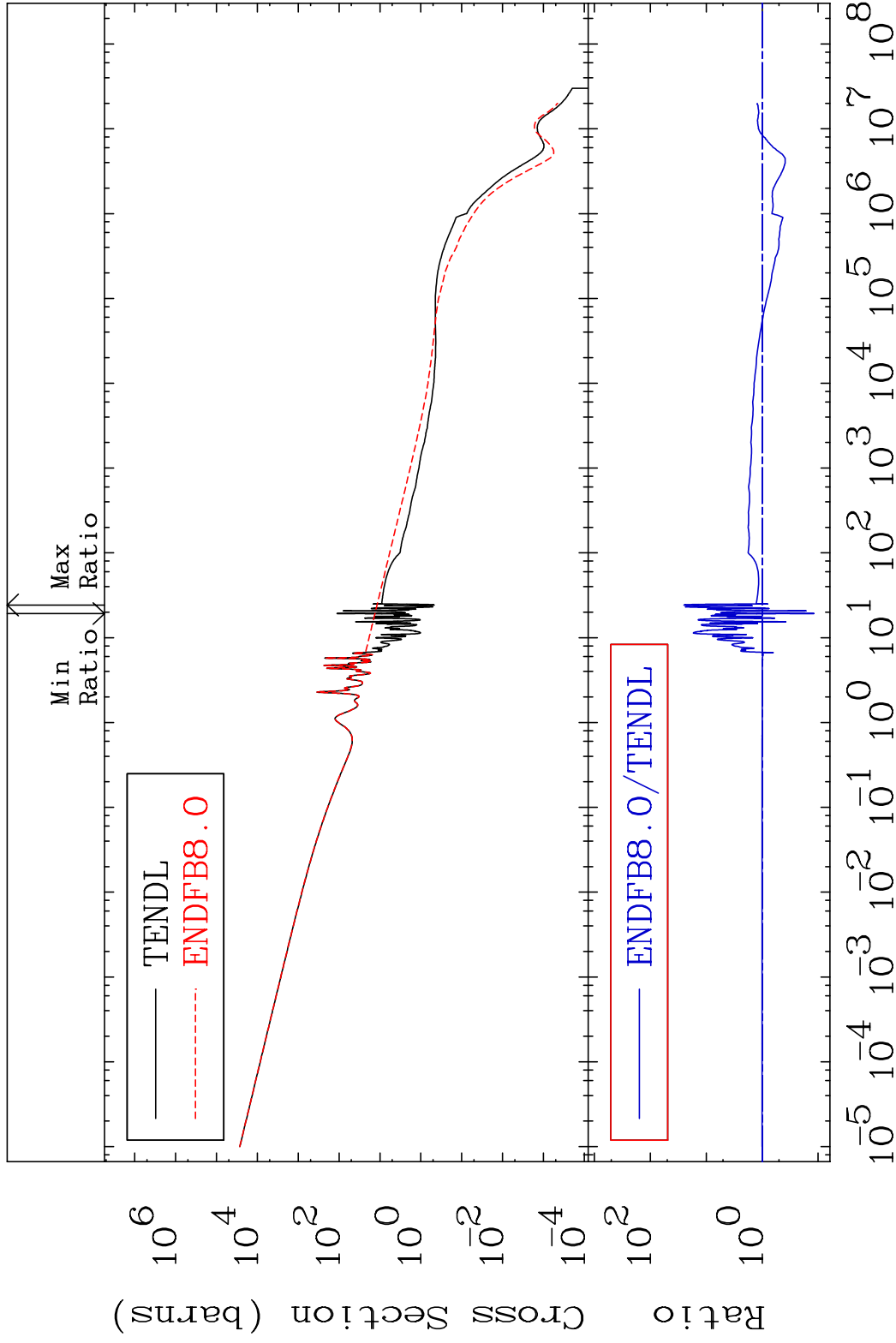
93-Np-238

MAT 9349

(n,  $\gamma$ )

93-Np-238

Cross Section -88.19 To 2436. %



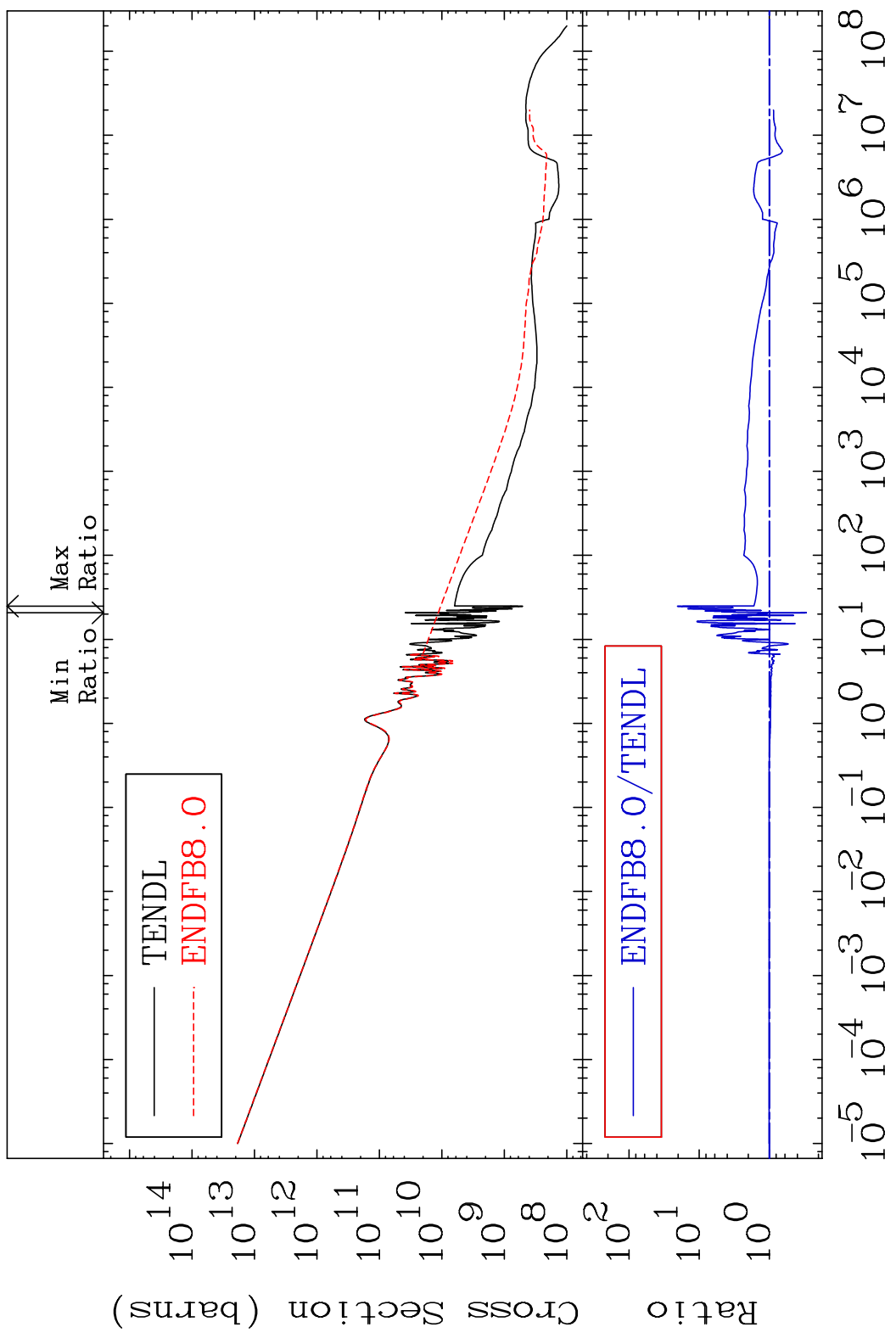
28

Incident Energy (eV)

93-Np-238

MAT 9349

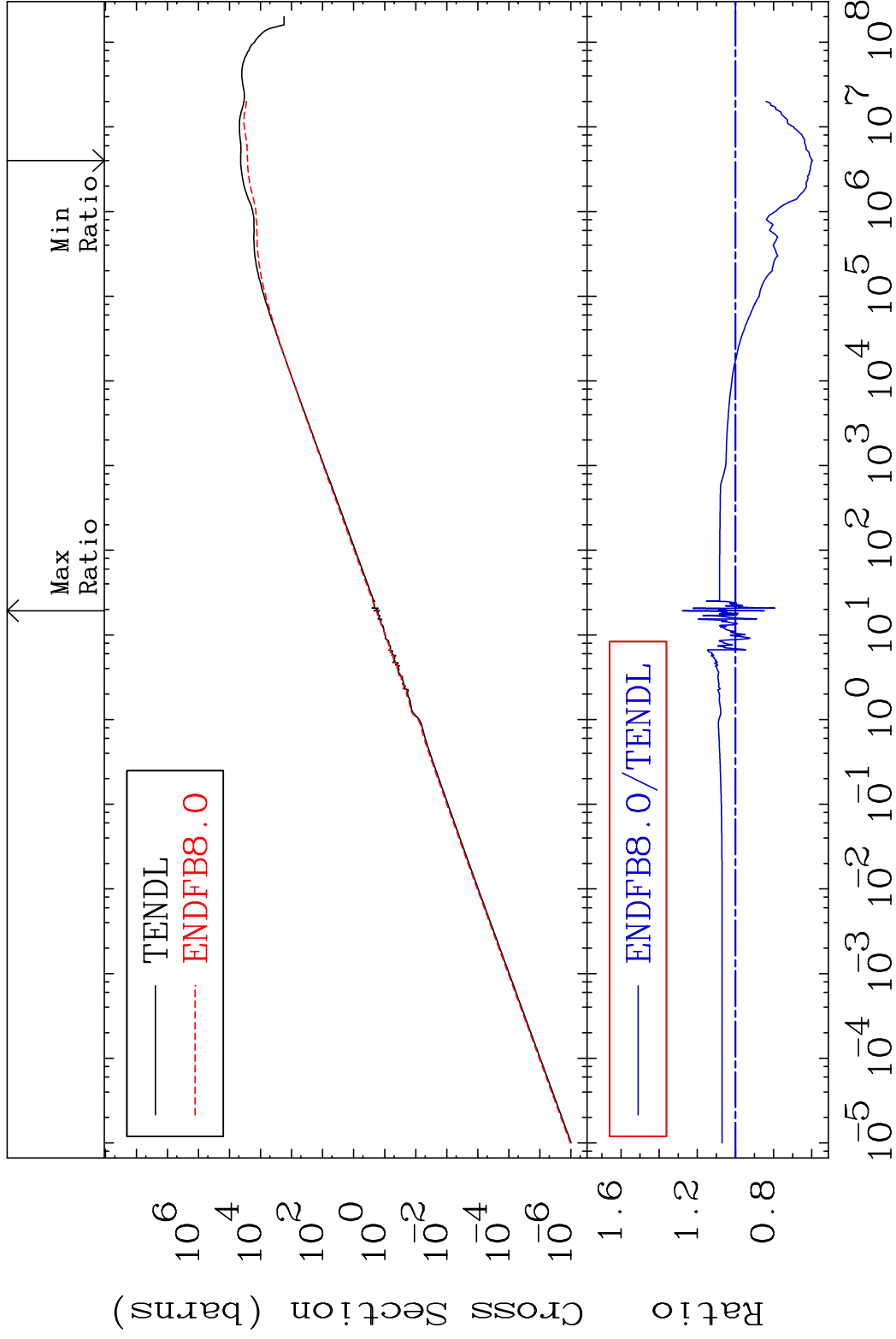
Kerma total (eV-barns) 93-Np-238  
Cross Section -70.30 To 1960. %



MAT 9349

Kerma elastic  
Cross Section

93-Np-238  
-40.40 To 27.84 %

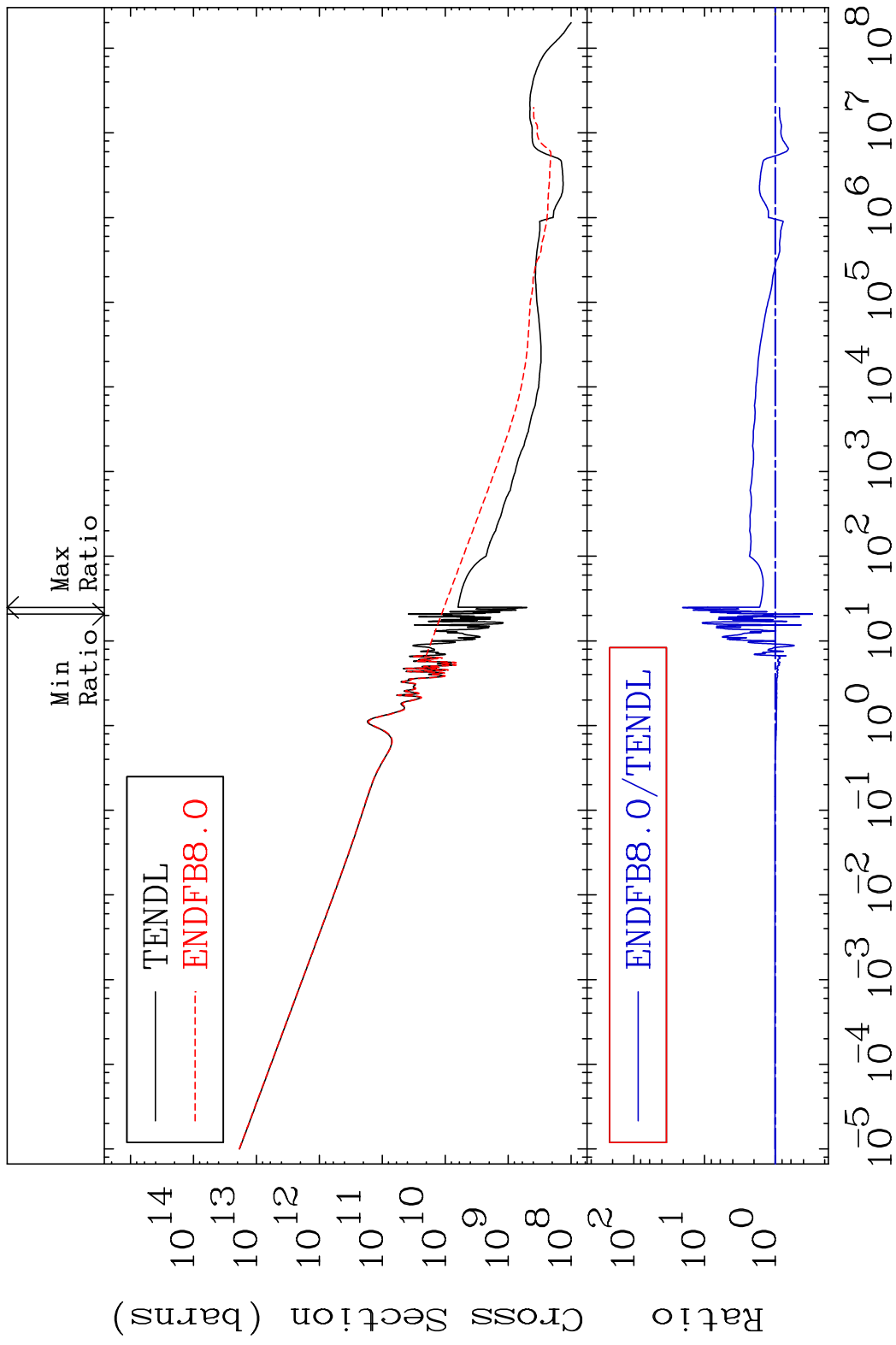


30

Incident Energy (eV)

93-Np-238

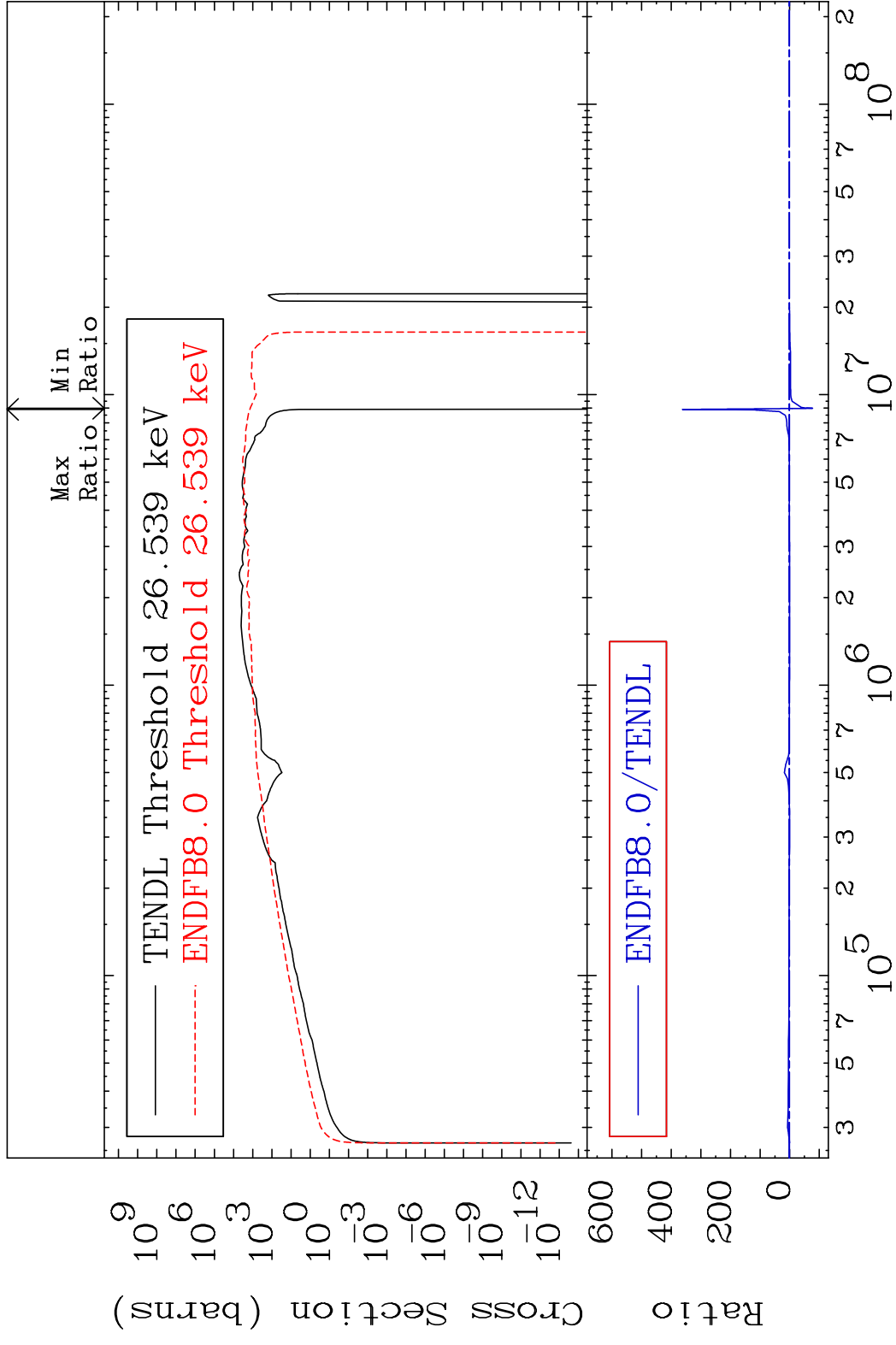
MAT 9349 Kerma non-elastic (all but mt2) 93-Np-238  
 Cross Section -70.30 To 1960. %





MAT 9349

Kerma inelastic (mt51-91) 93-Np-238  
Cross Section -7821. To 9999. %

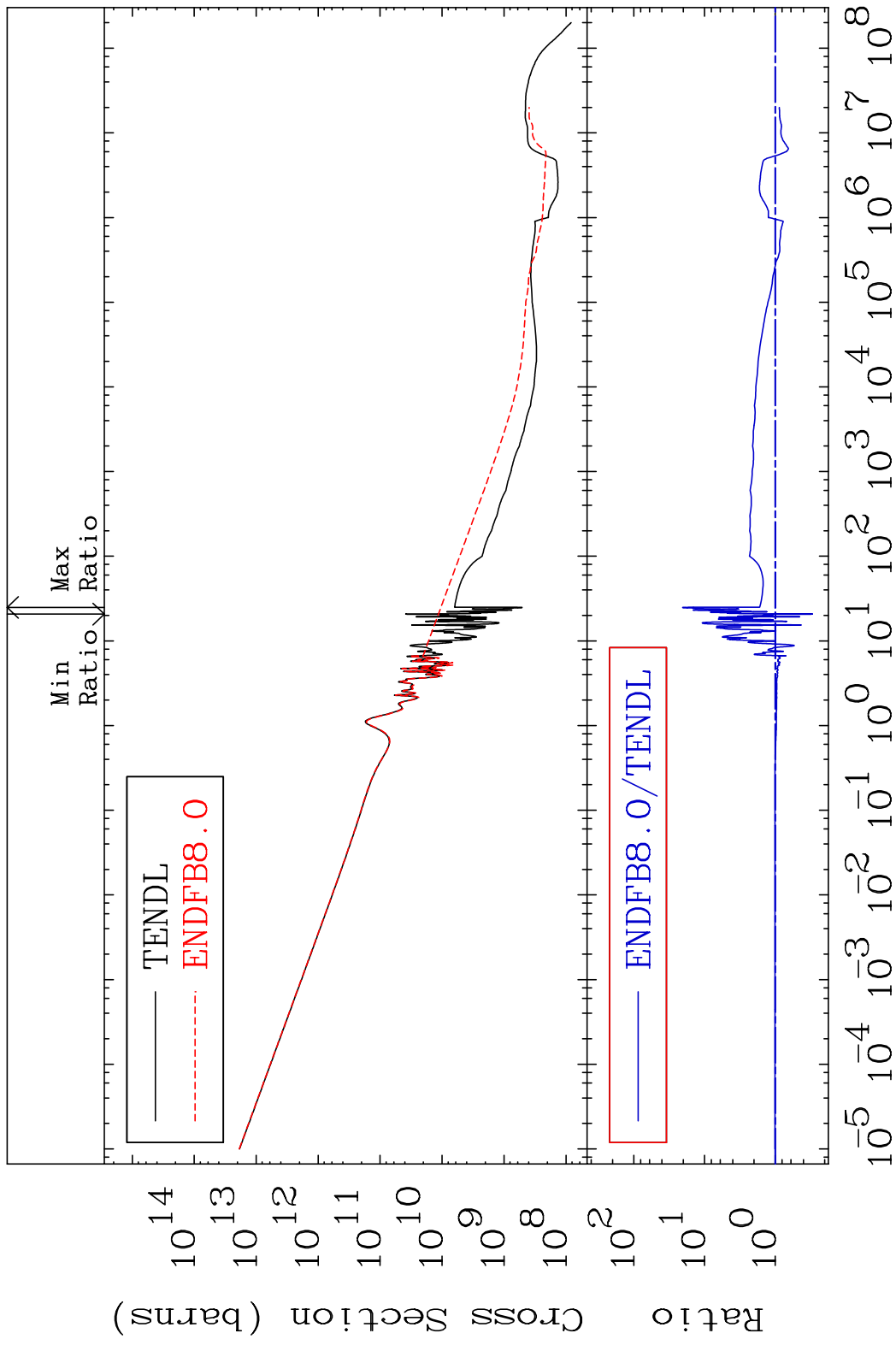


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Incident Energy (eV)

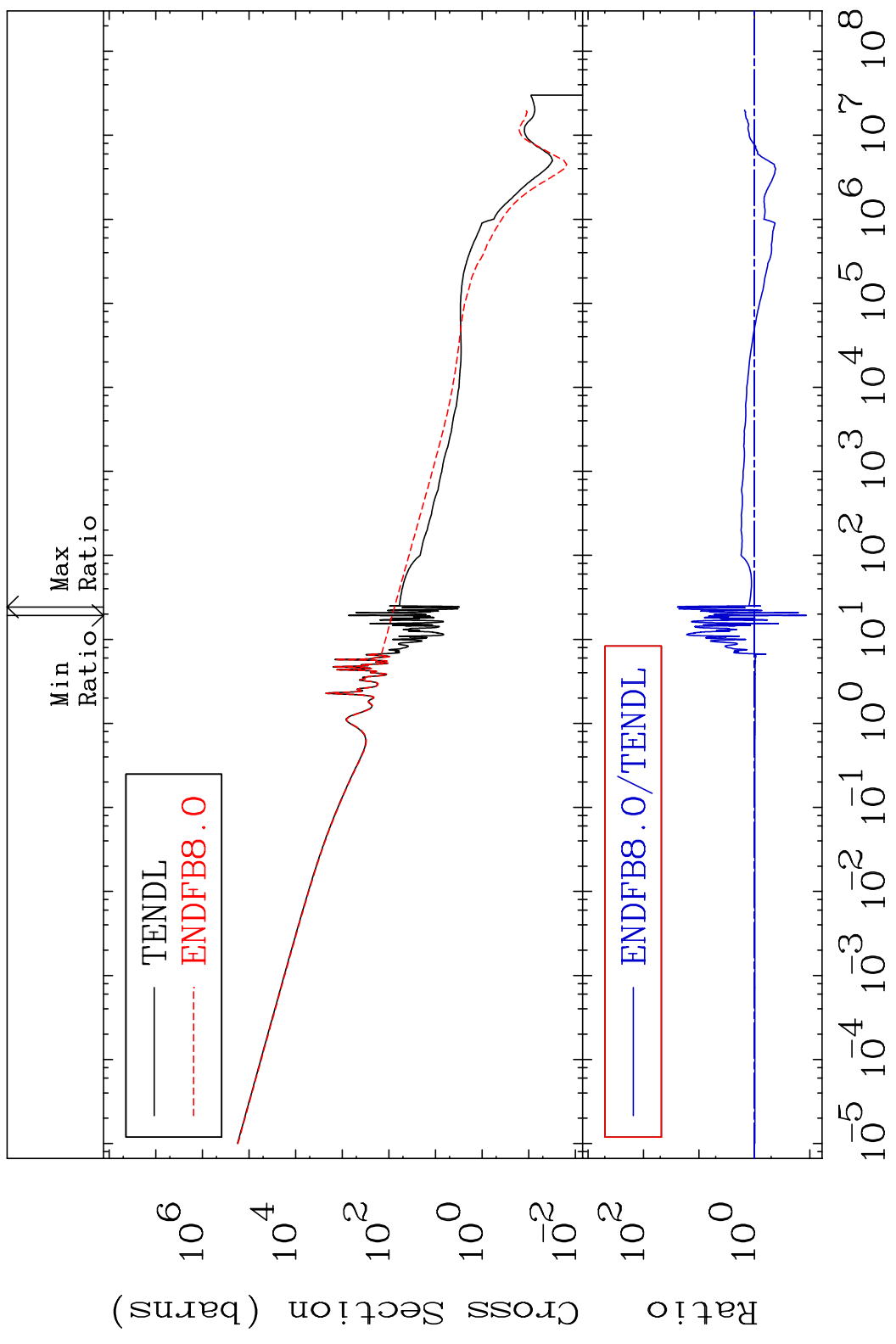
93-Np-238

MAT 9349 Kerma fission (mt18 or mt19-20-21-38) 93-Np-238  
 Cross Section -70.30 To 1960. %

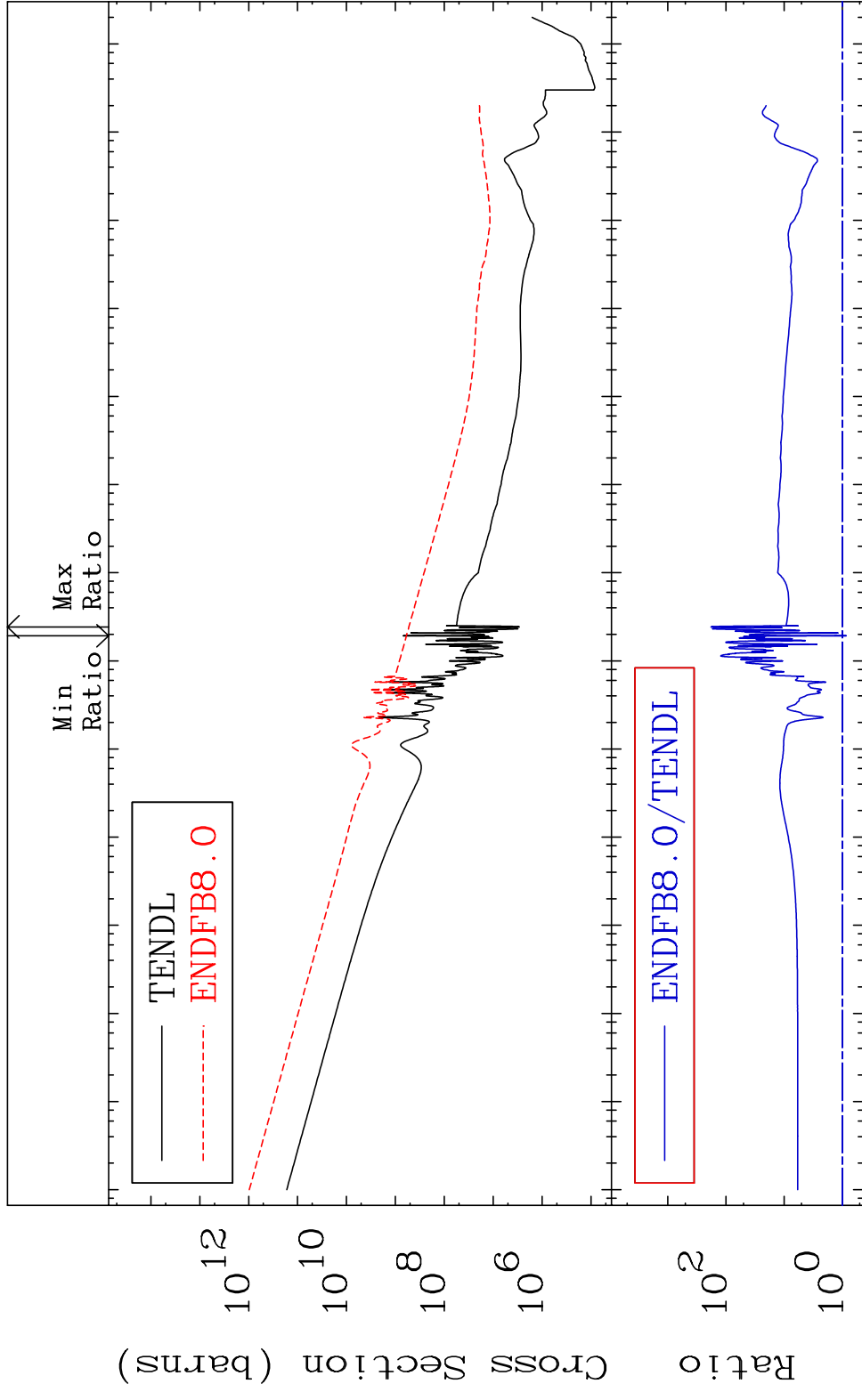


MAT 9349

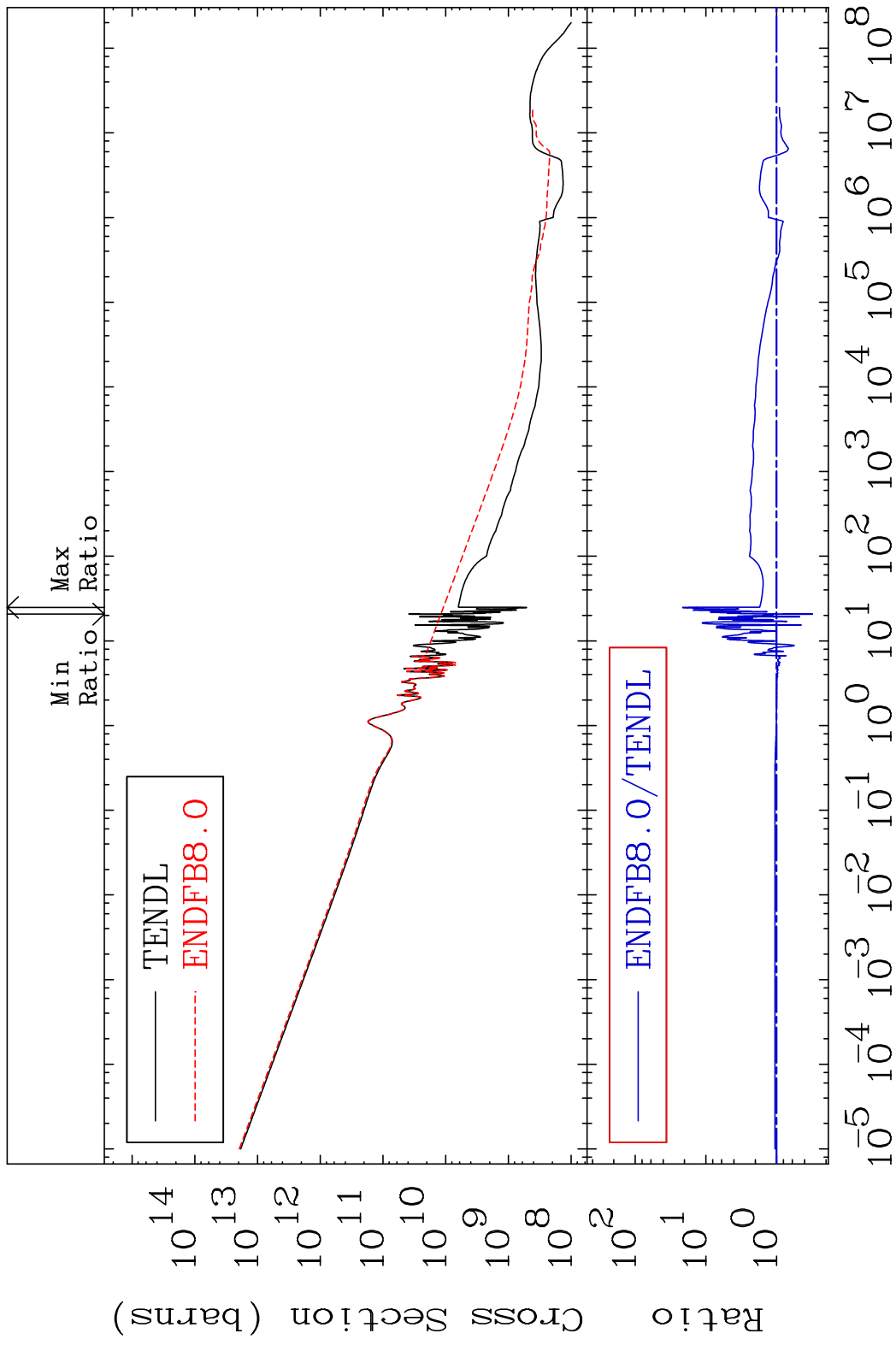
Kerma capture (mt102) 93-Np-238  
Cross Section -88.48 To 2373. %



MAT 9349 Total photon (eV-barns) 93-Np-238  
 Cross Section -14.91 To 9999. %



MAT 9349 Total kinematic kerma (high limit) 93-Np-238  
 Cross Section -69.02 To 2048. %

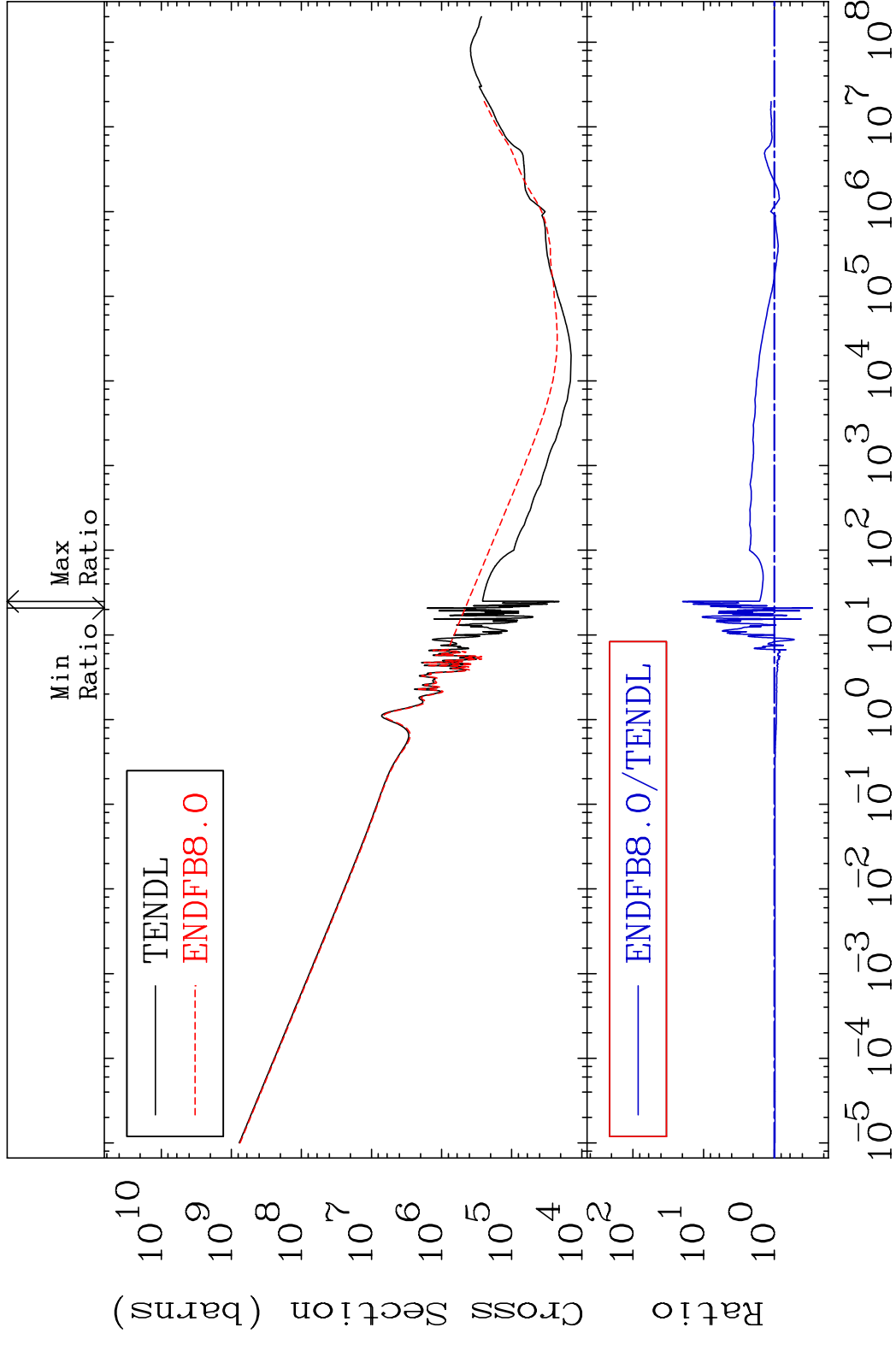


MAT 9349

Dpa total (eV-barns)

93-Np-238

Cross Section -71.21 To 1896. %

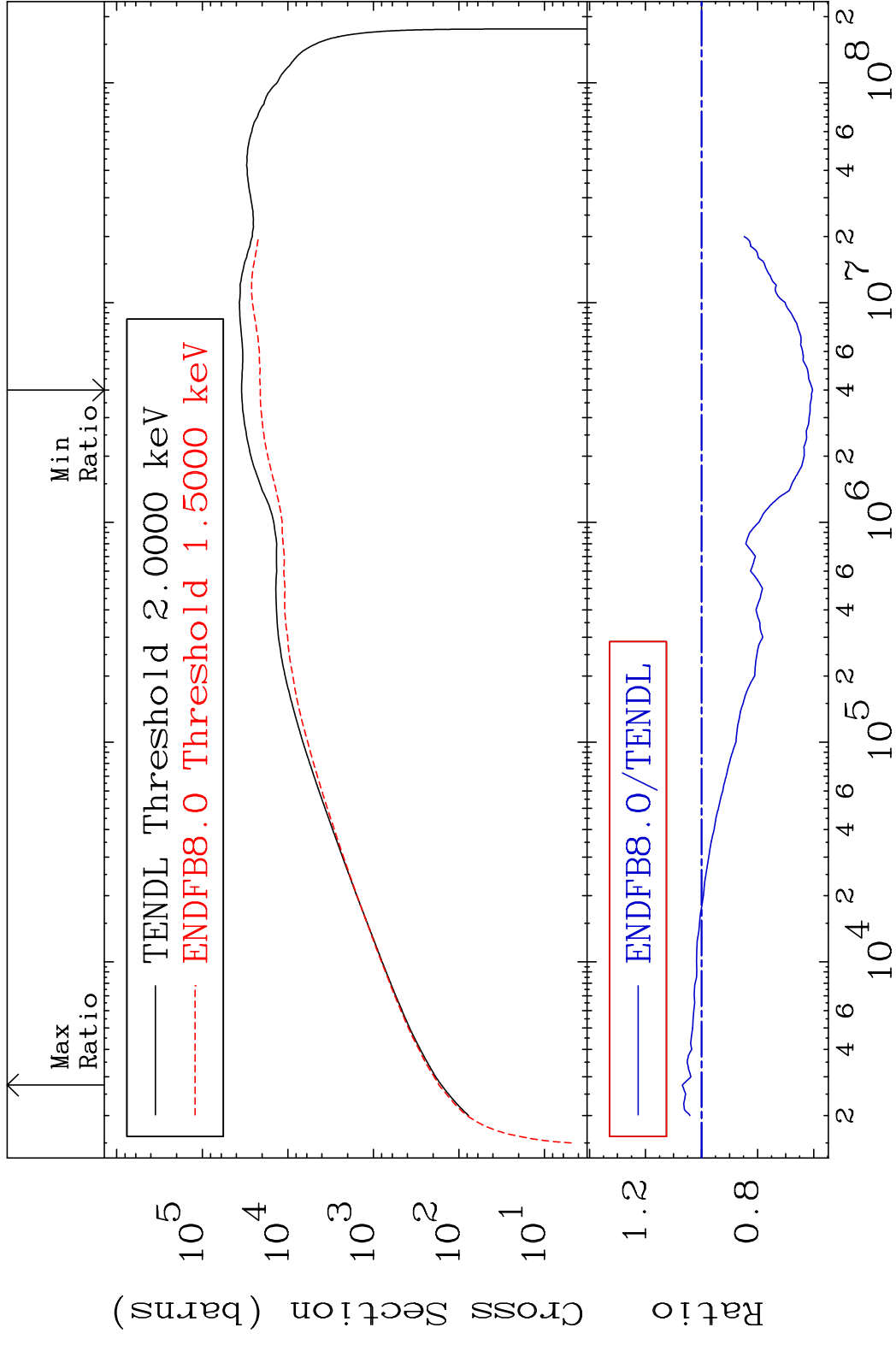


MAT 9349

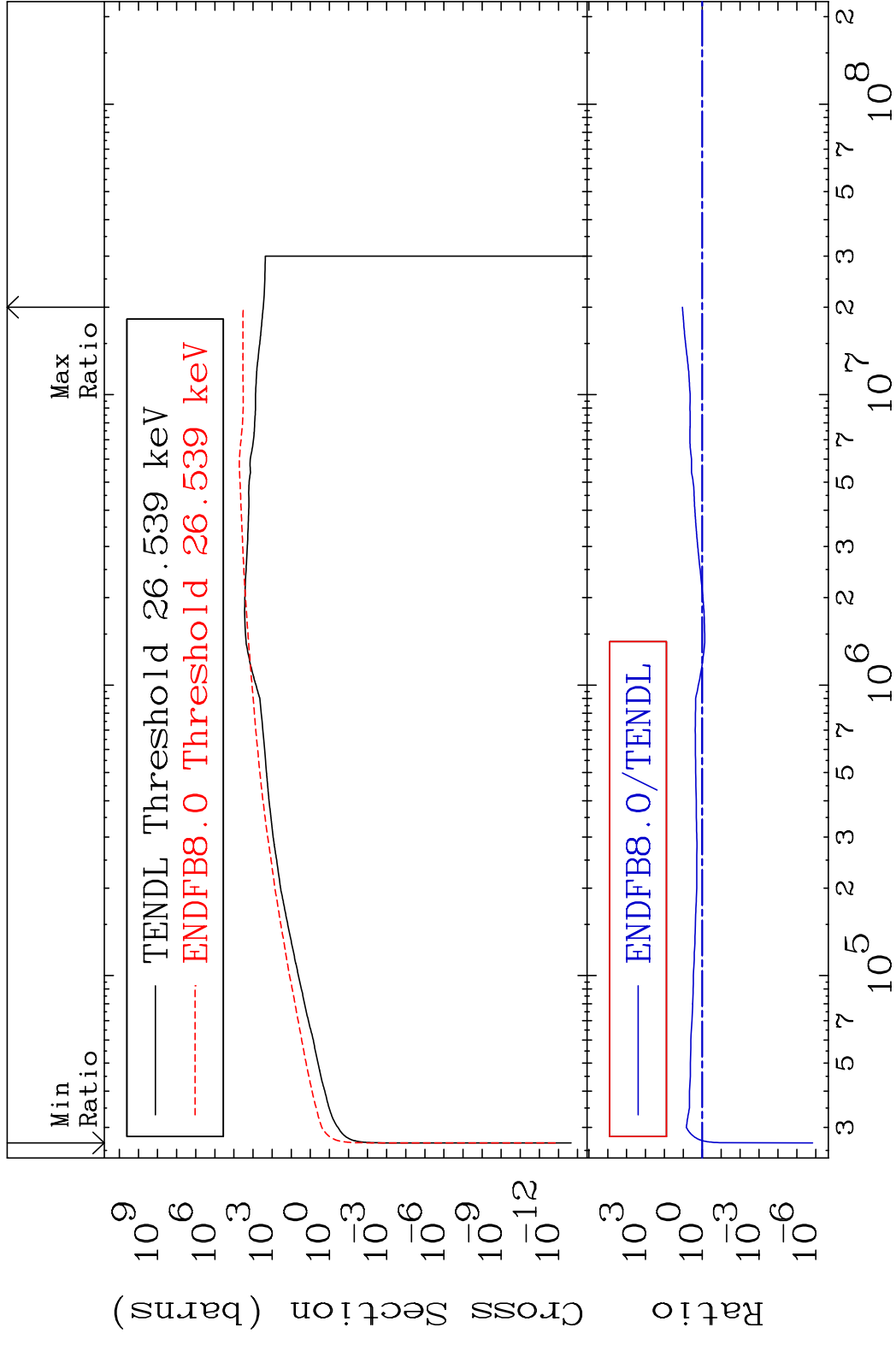
Dpa elastic (mt2)

93-Np-238

Cross Section -39.61 To 6.853 %

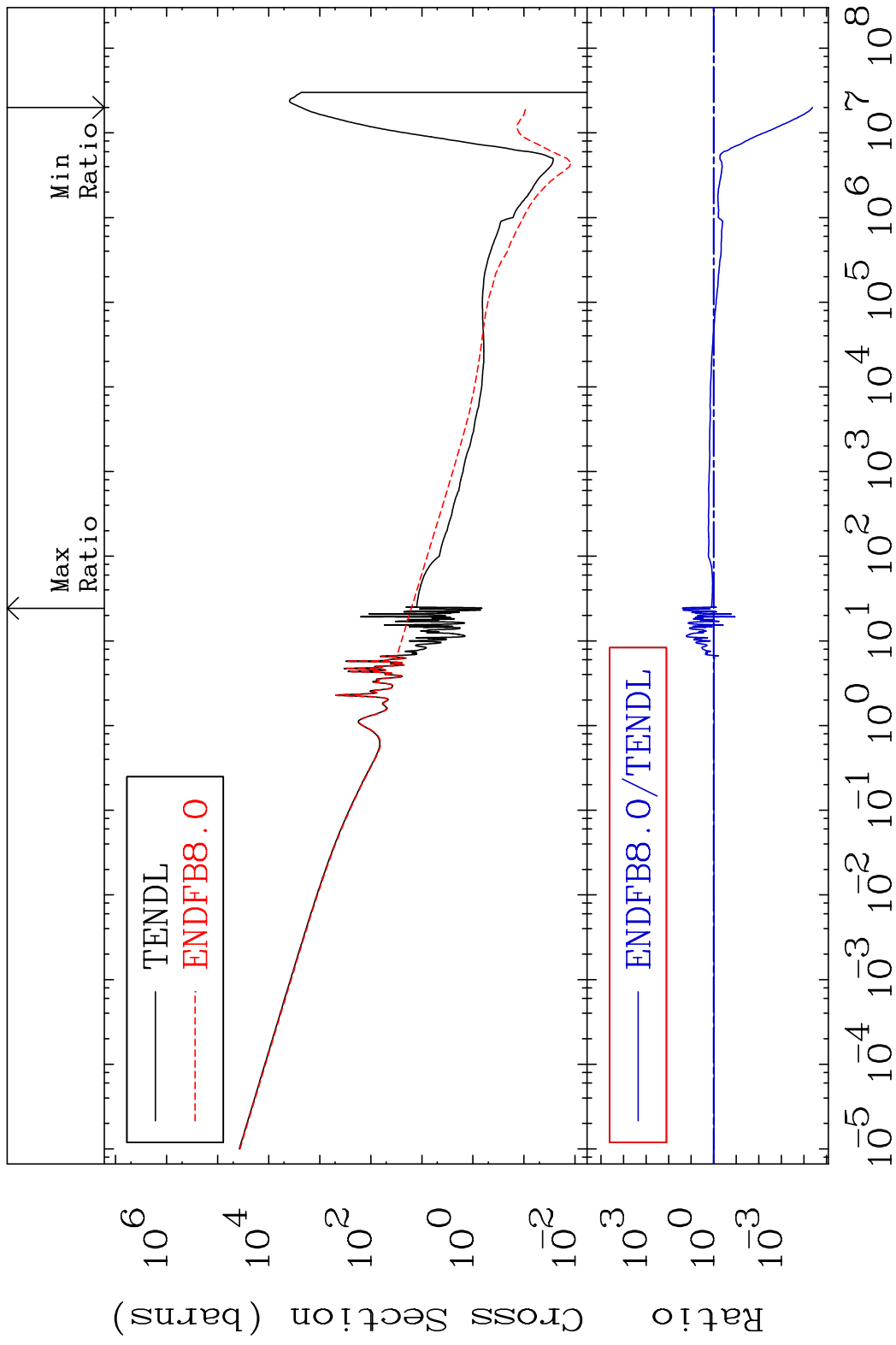


MAT 9349 Dpa inelastic (mt51-91) 93-Np-238  
 Cross Section -100.0 To 1030. %





MAT 9349 Dpa disappearance (mt102 -120) 93-Np-238  
 Cross Section -100.0 To 2356. %



40 Incident Energy (eV) 93-Np-238