

Program Complot  
(Version 2018-1)

by

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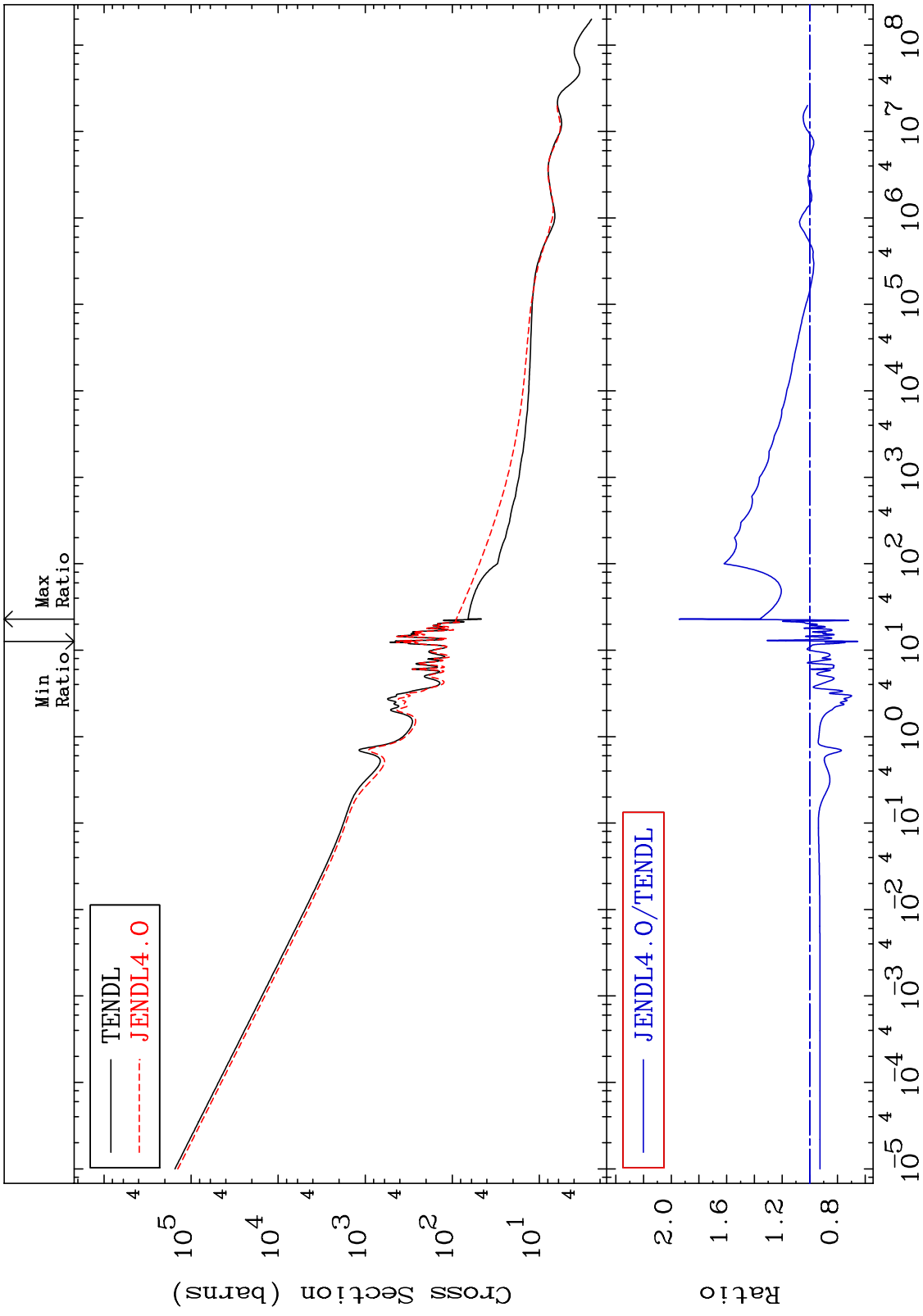
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E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

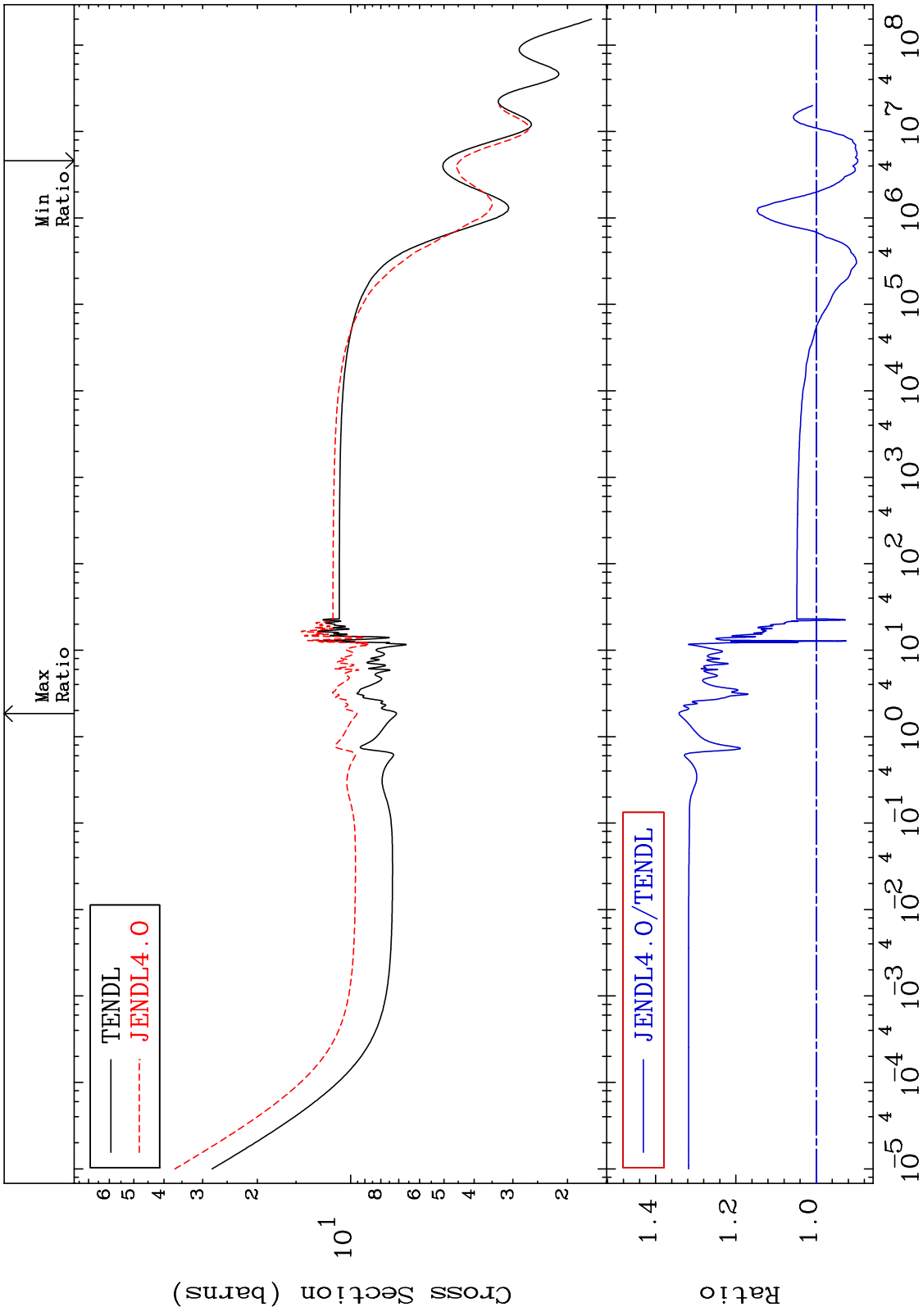
Press Mouse Button to Start

MAT 9343 93-Np-236  
Total Cross Section -34.69 To 94.37 %



Incident Energy (eV) 93-Np-236

MAT 9343 Elastic Cross Section  $^{93}\text{Np-236}$  -10.36 To 34.16 %

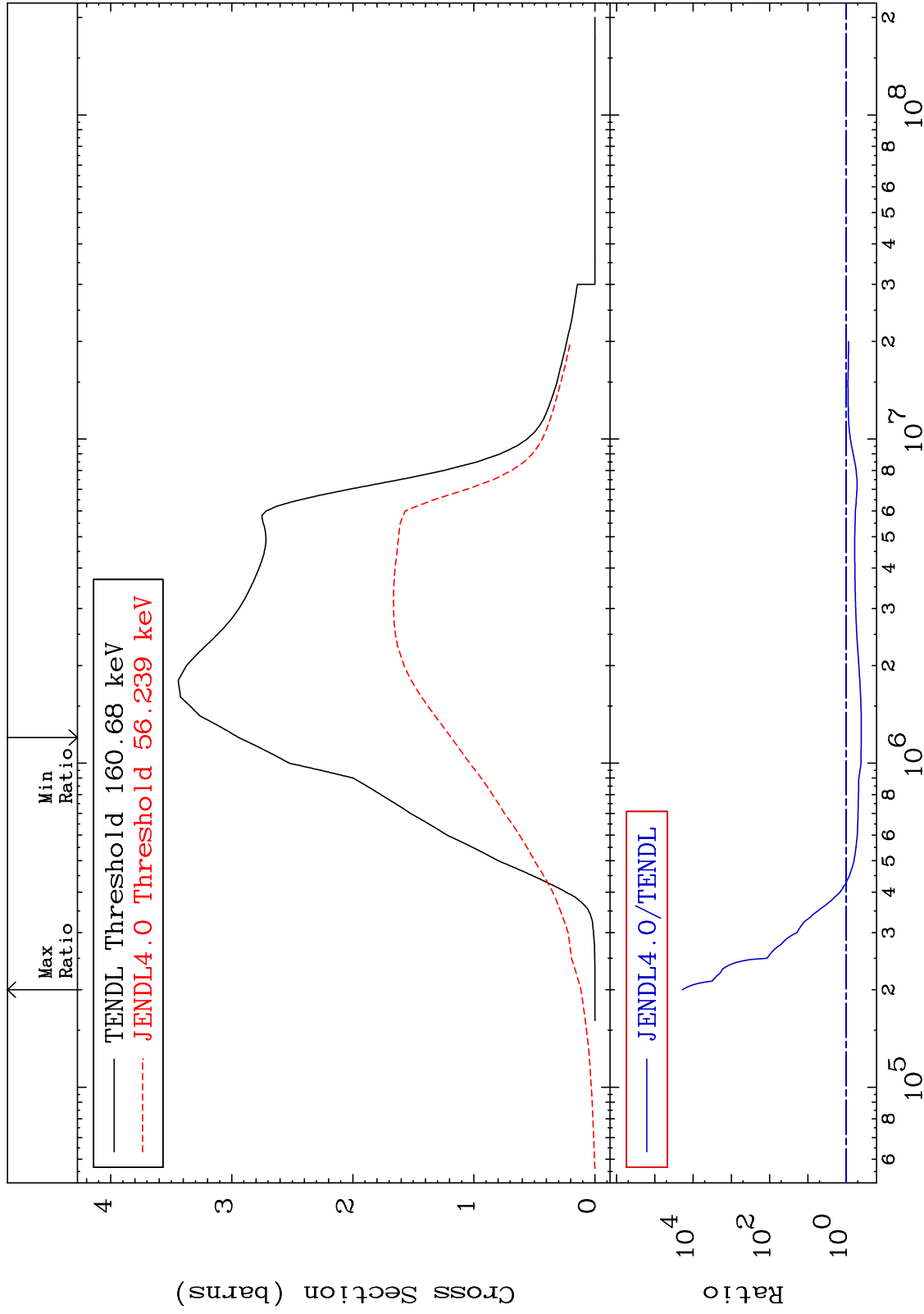


2  $^{93}\text{Np-236}$

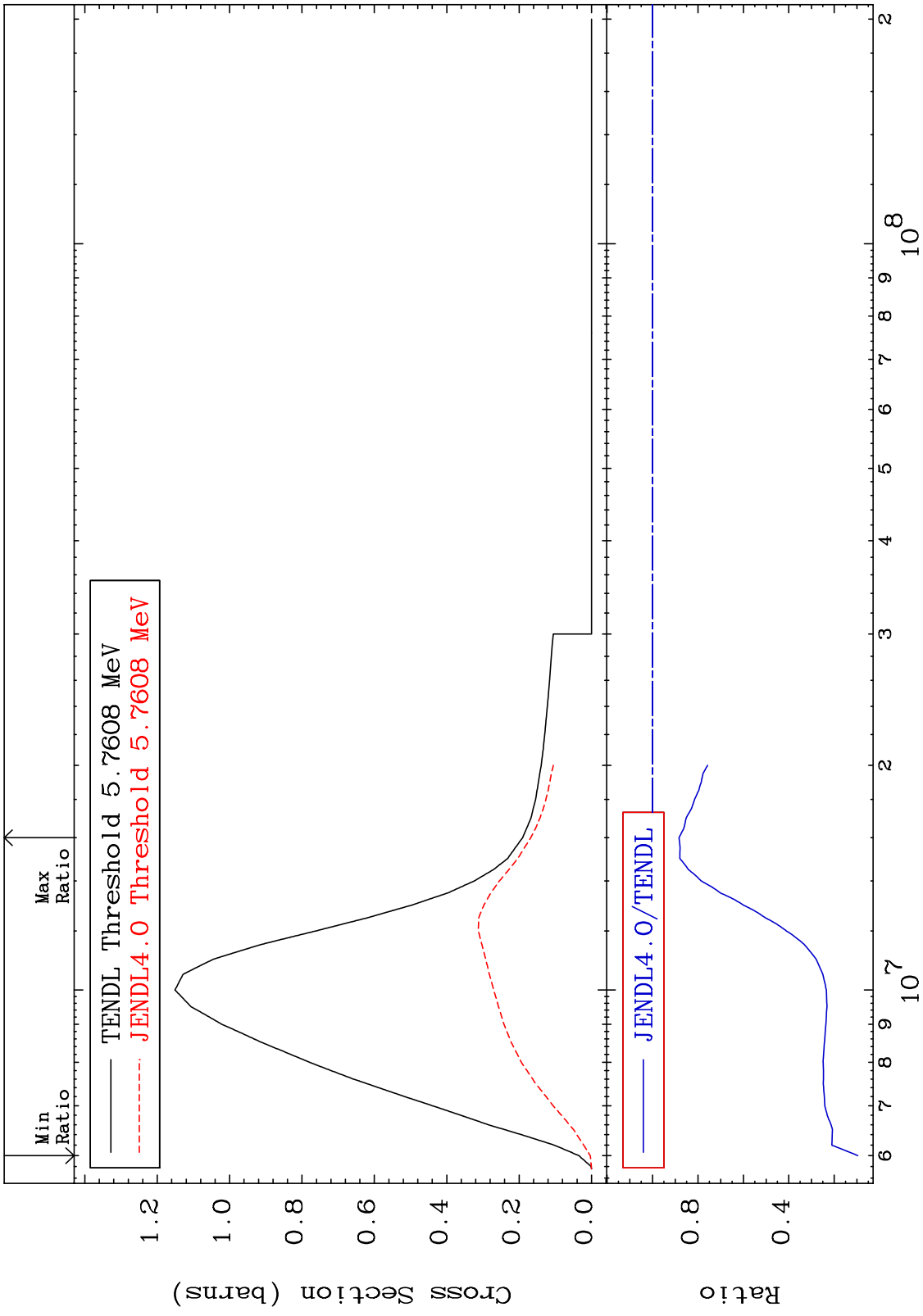
MAT 9343

Inelastic  
Cross Section

93-Np-236  
-59.64 To 9999. %



MAT 9343 (n,2n) 93-Np-236  
Cross Section -90.39 To -11.67%



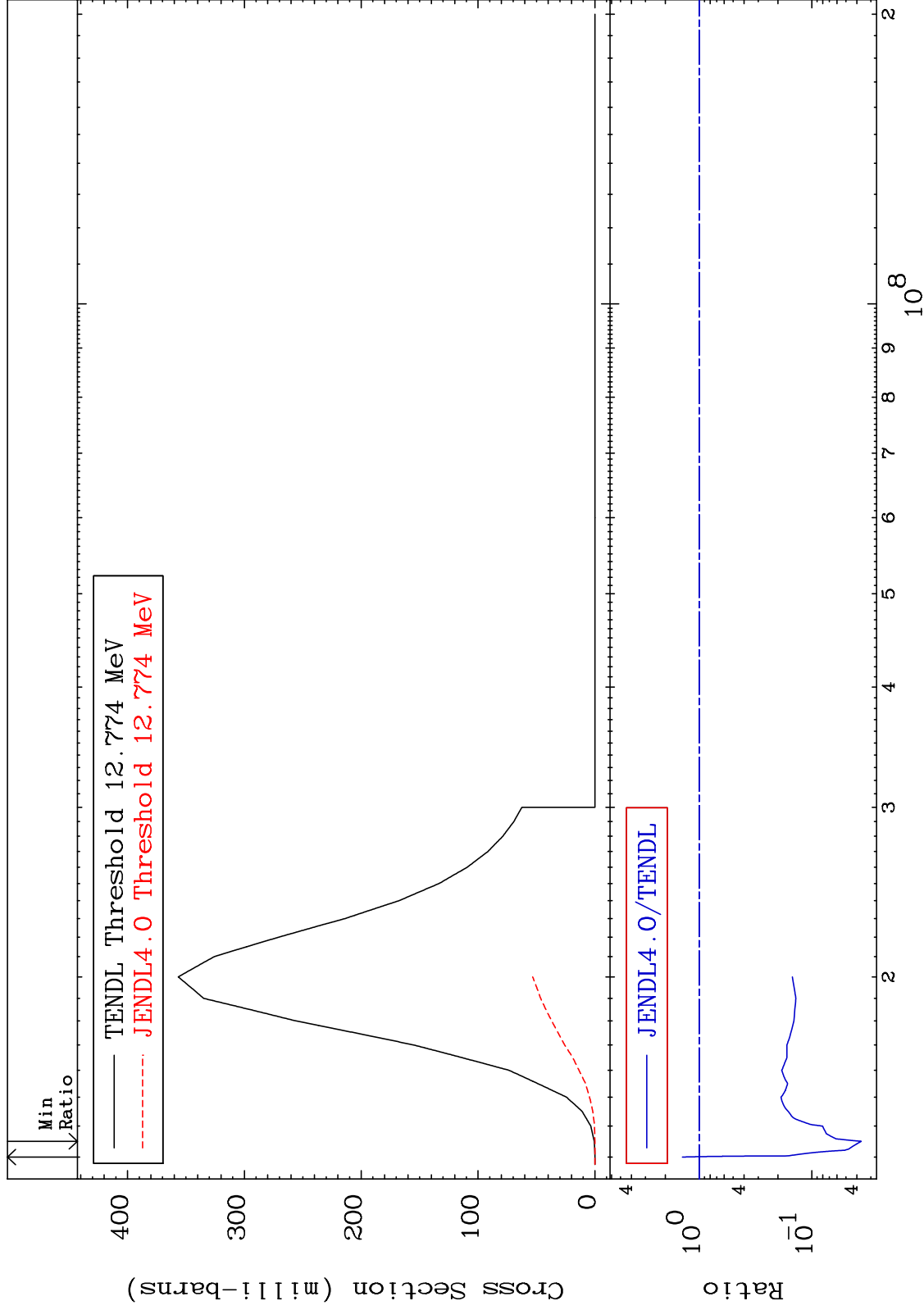
MAT 9343

(n,3n)

93-Np-236

Cross Section

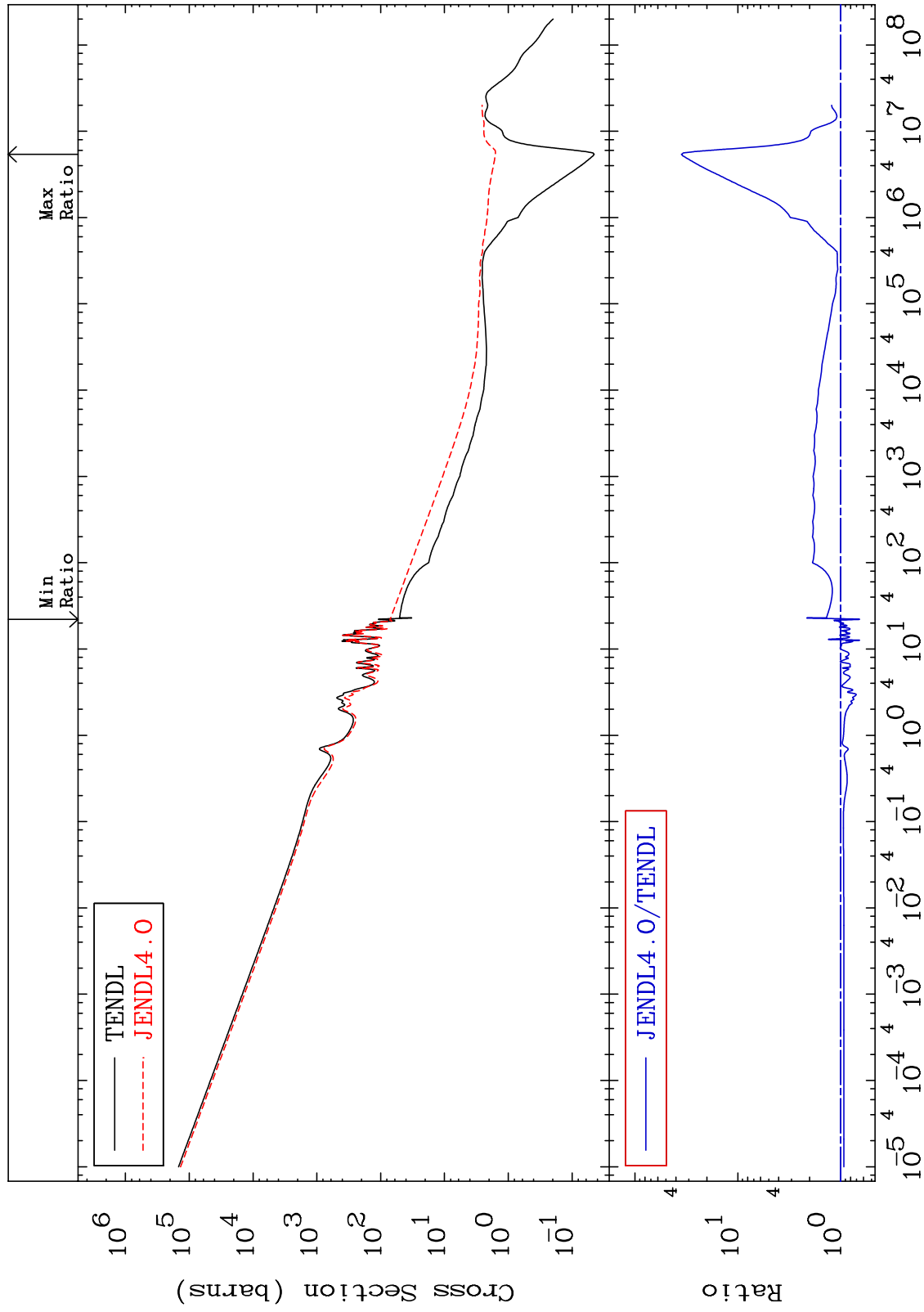
-96.35 To 40.86 %



MAT 9343

Fission  
Cross Section

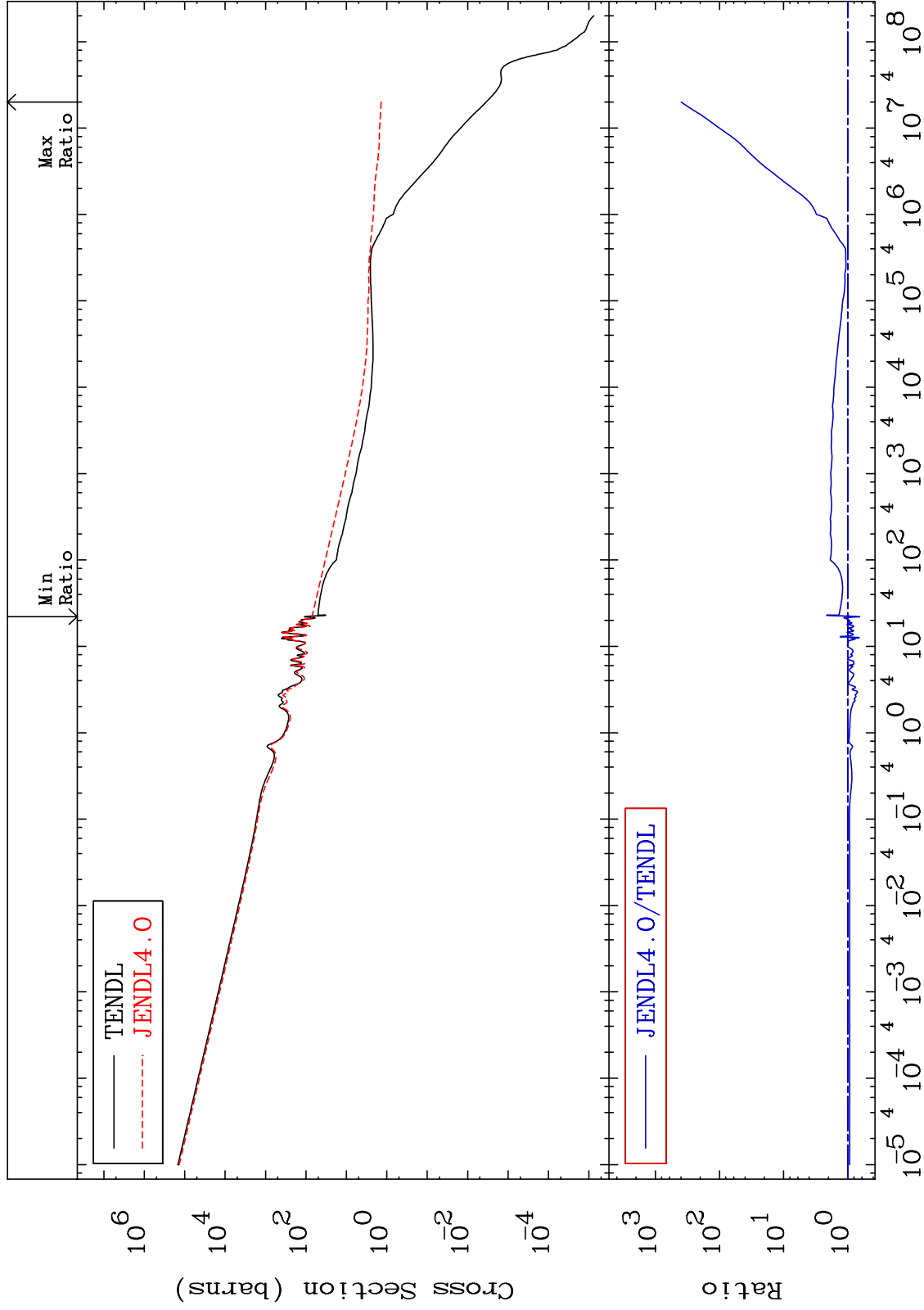
93-Np-236  
-35.00 To 3433. %



MAT 9343

(n,f) First Chance  
Cross Section

93-Np-236  
-35.00 To 9999. %



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Incident Energy (eV)

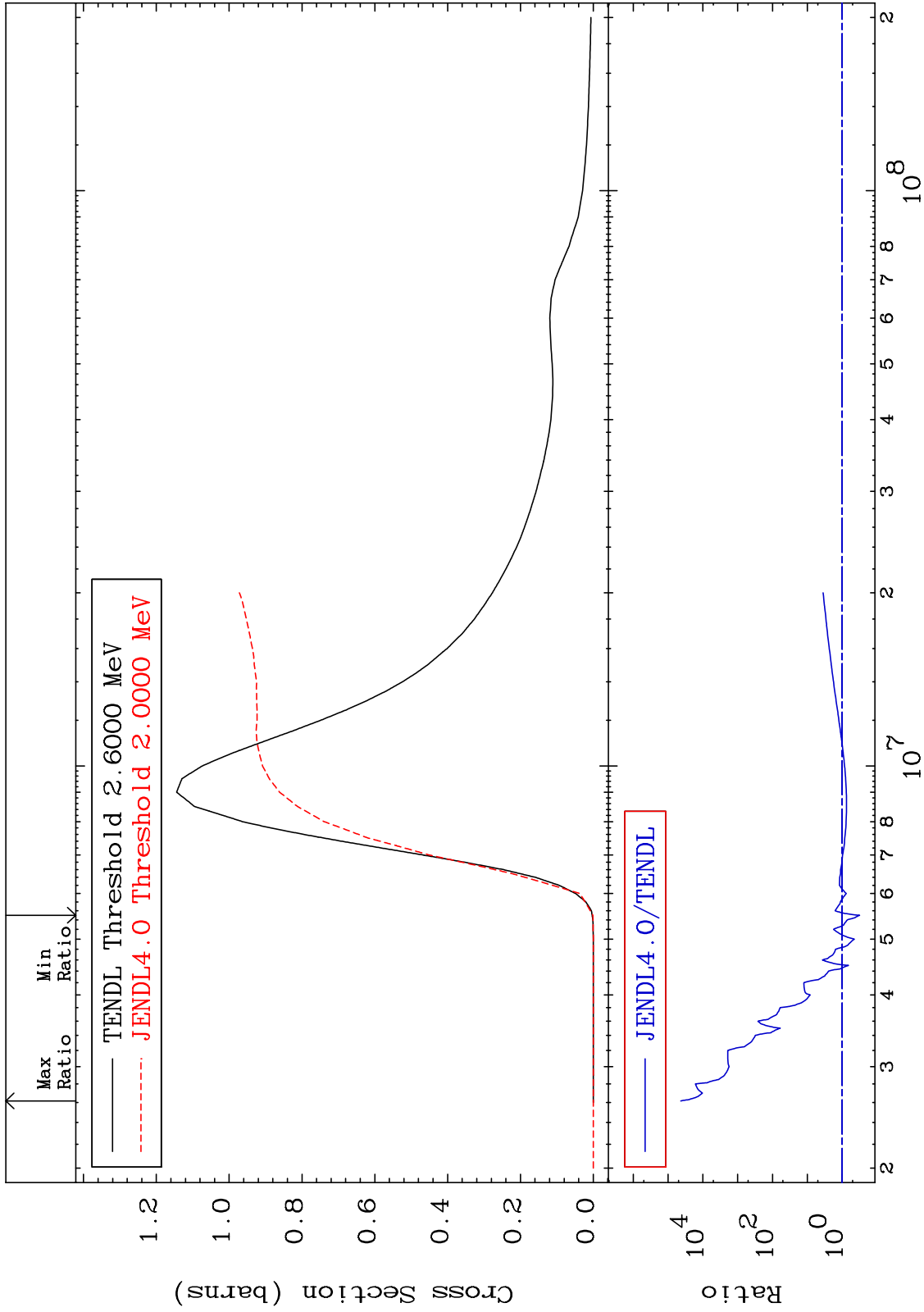
93-Np-236



MAT 9343

(n,nf) Second Chance  
Cross Section

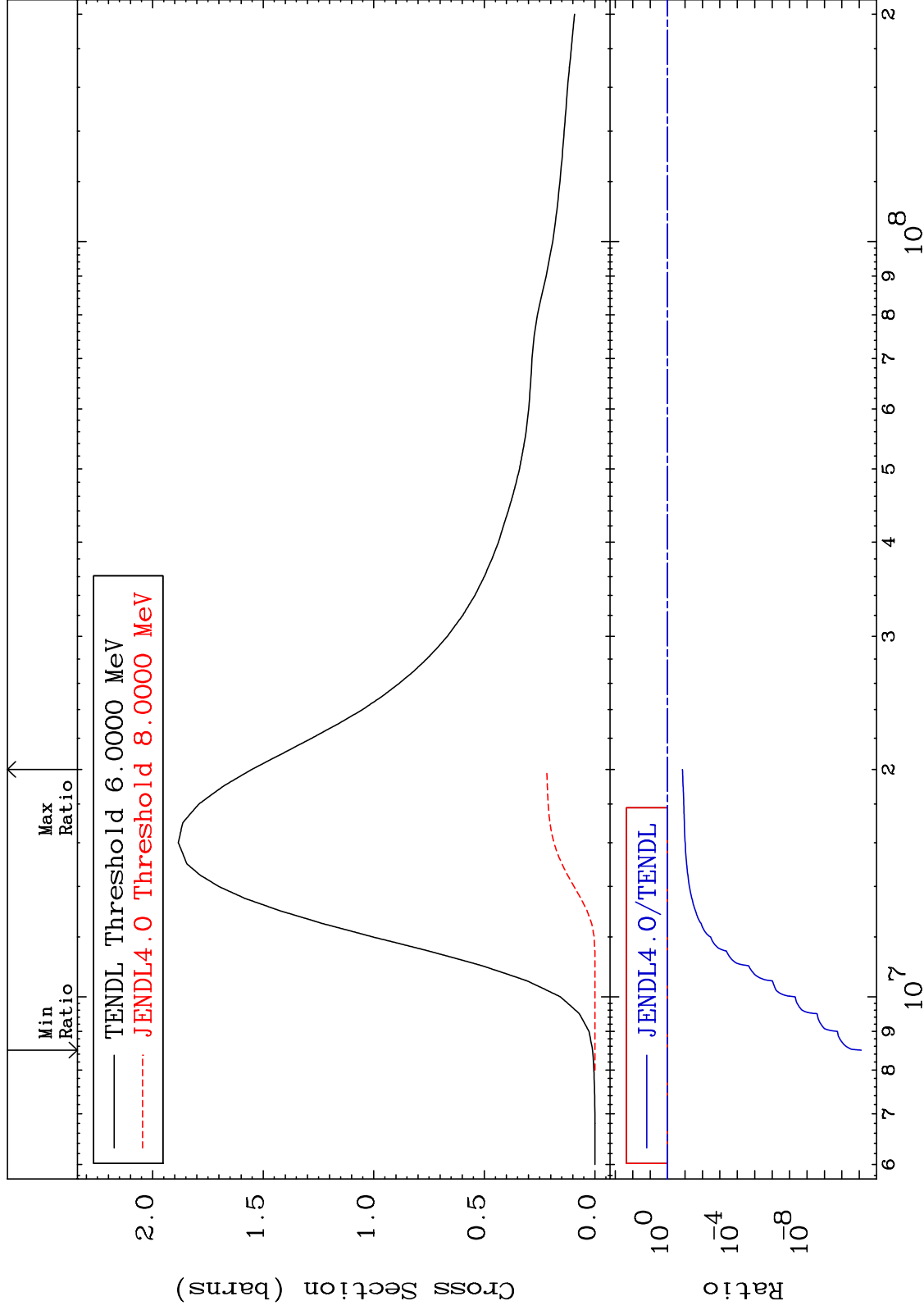
93-Np-236  
-68.75 To 9999. %



MAT 9343

(n,2nf) Third Chance  
Cross Section

93-Np-236  
-100.0 To -86.00%



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Incident Energy (eV)

93-Np-236

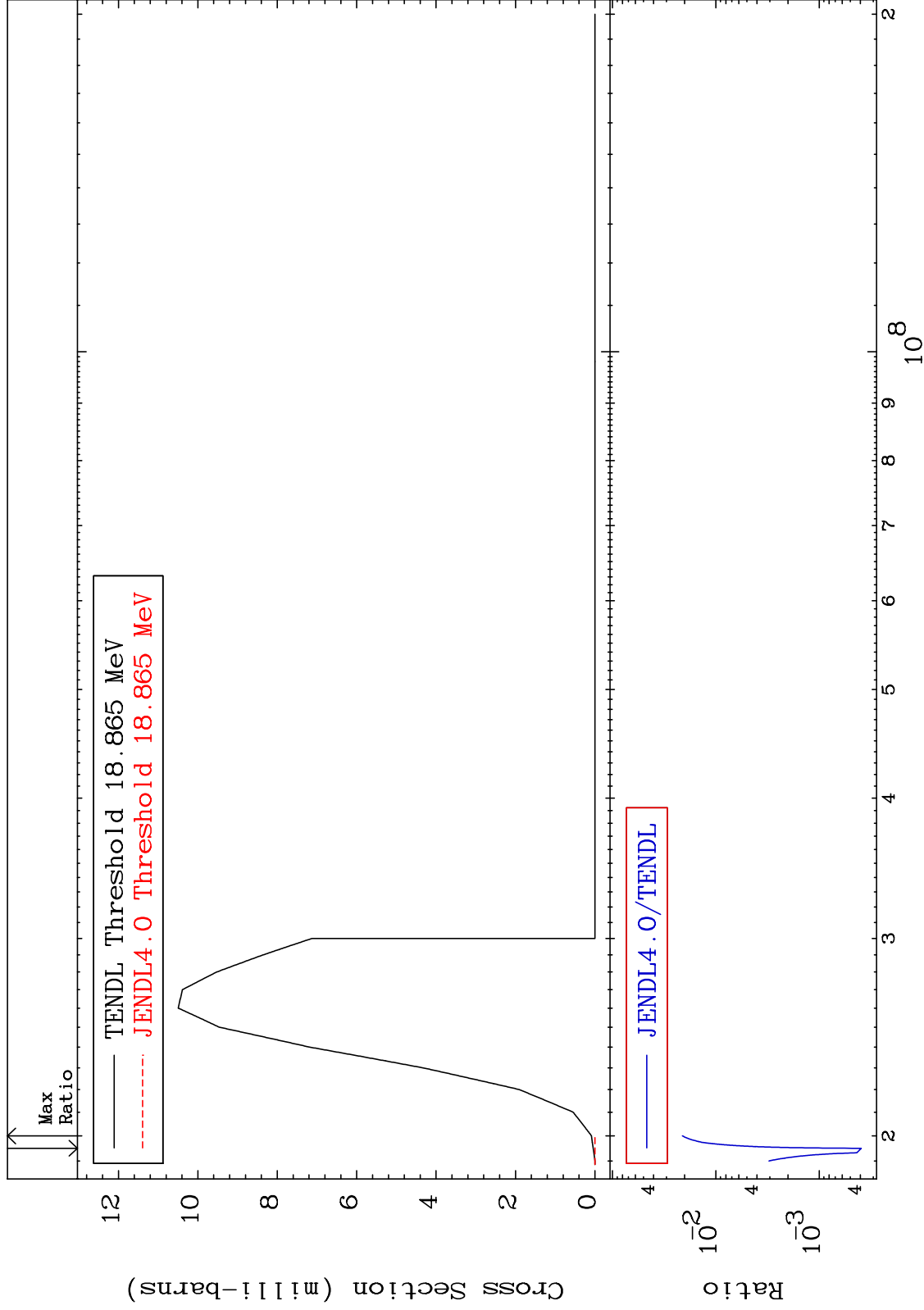
MAT 9343

(n,4n)

93-Np-236

Cross Section

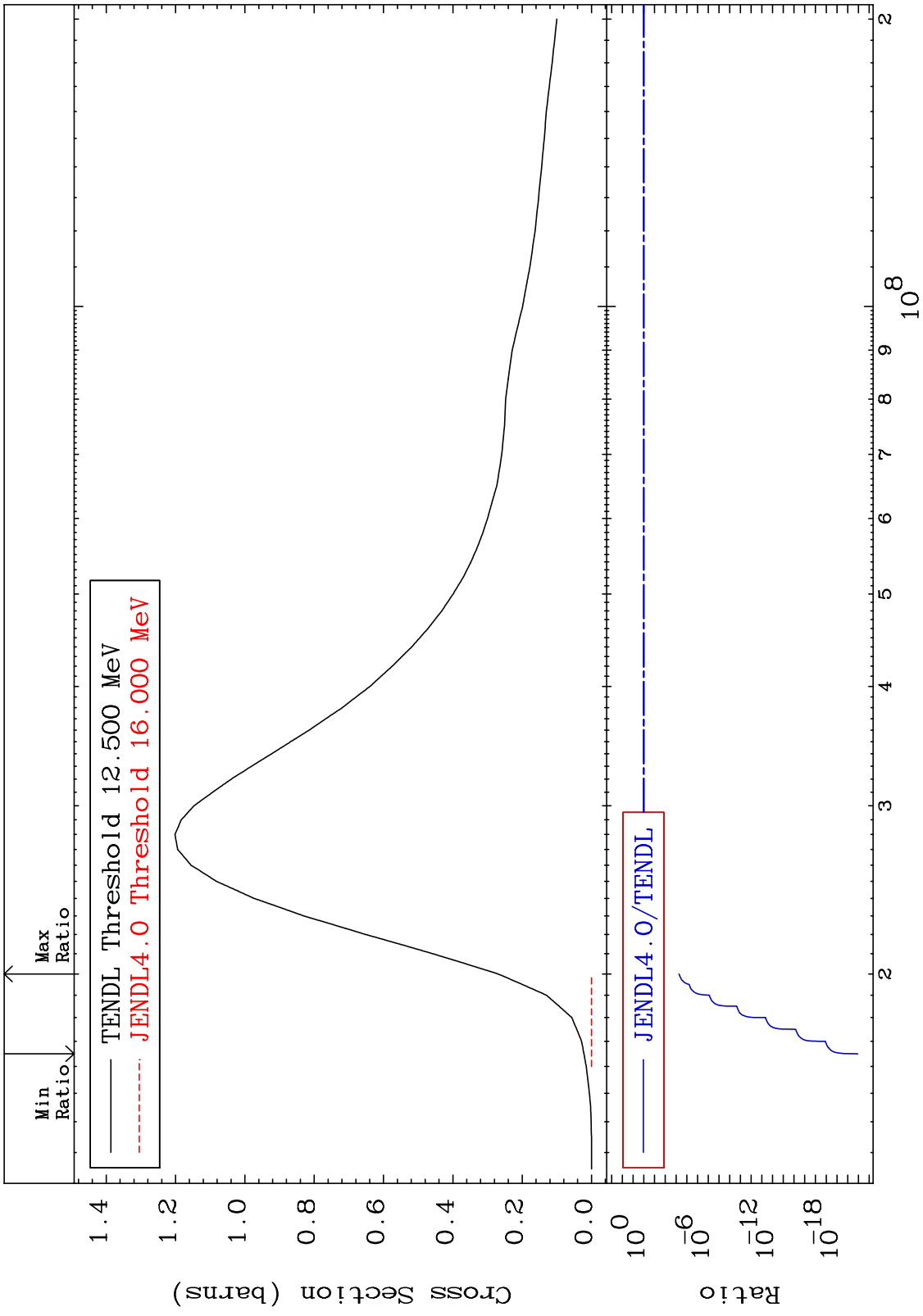
-99.96 To -97.90%



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Incident Energy (eV)

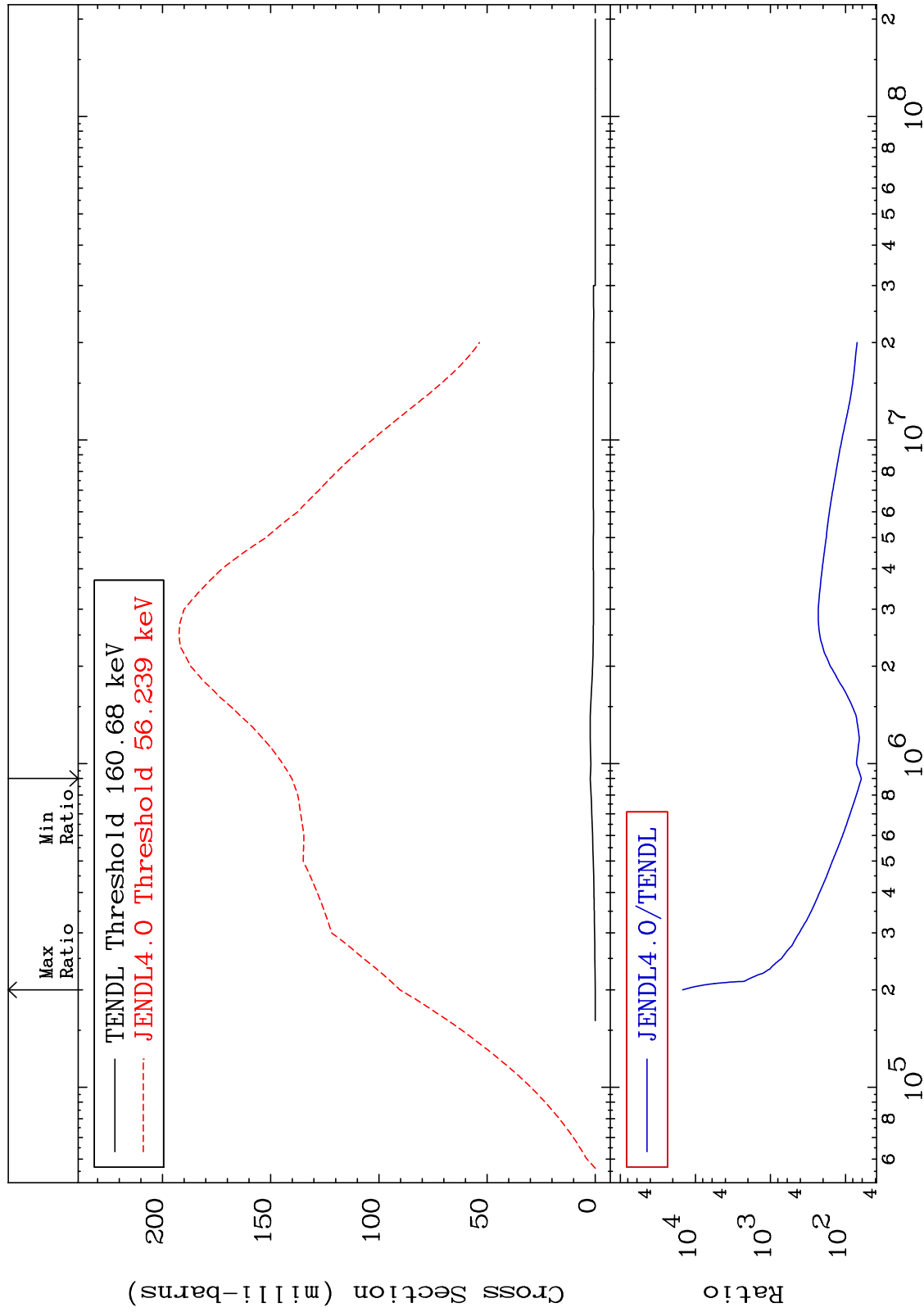
93-Np-236



MAT 9343

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

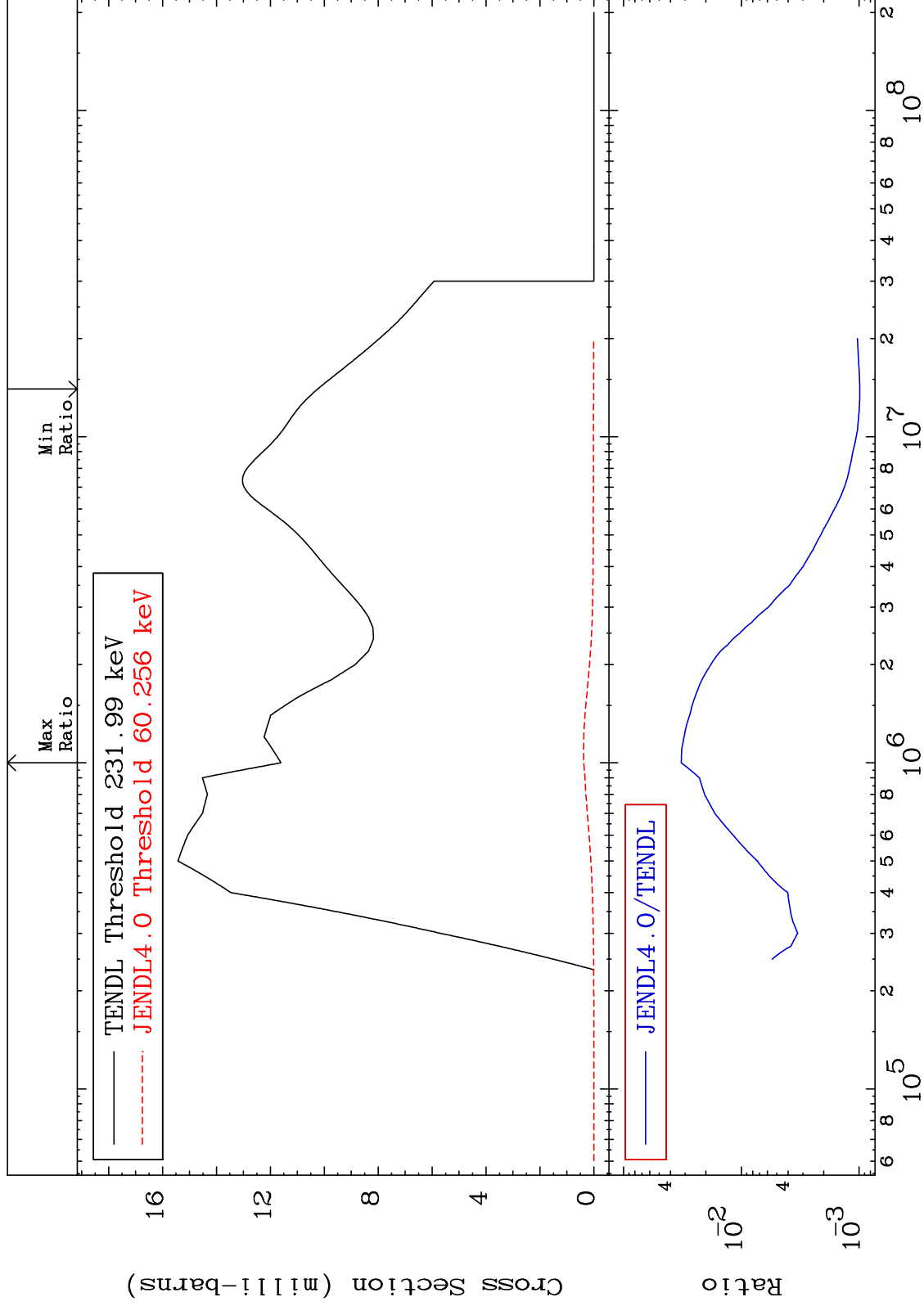
93-Np-236  
6062. To 9999. %



MAT 9343

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

93-Np-236  
-99.90 To -96.76%

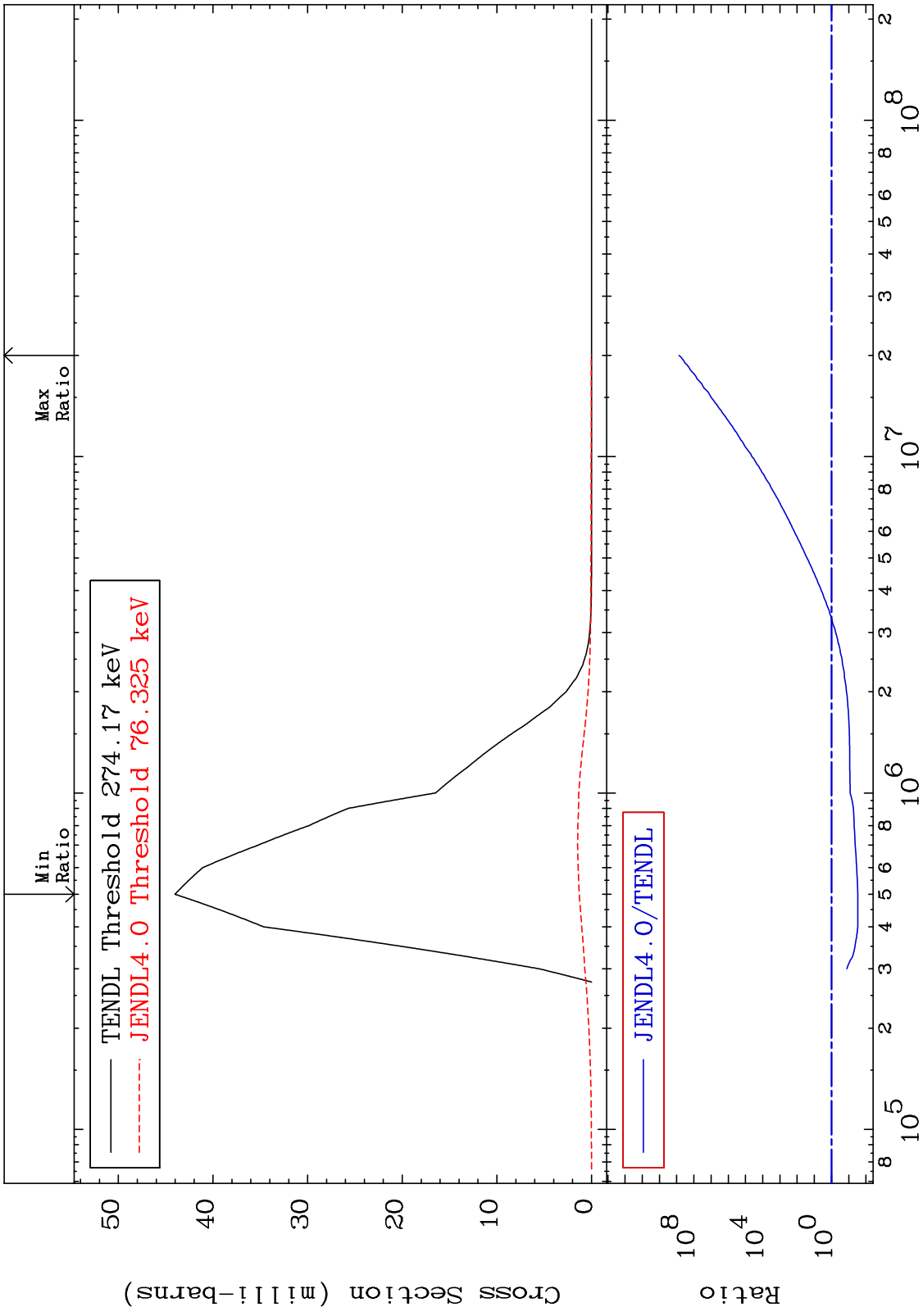


13

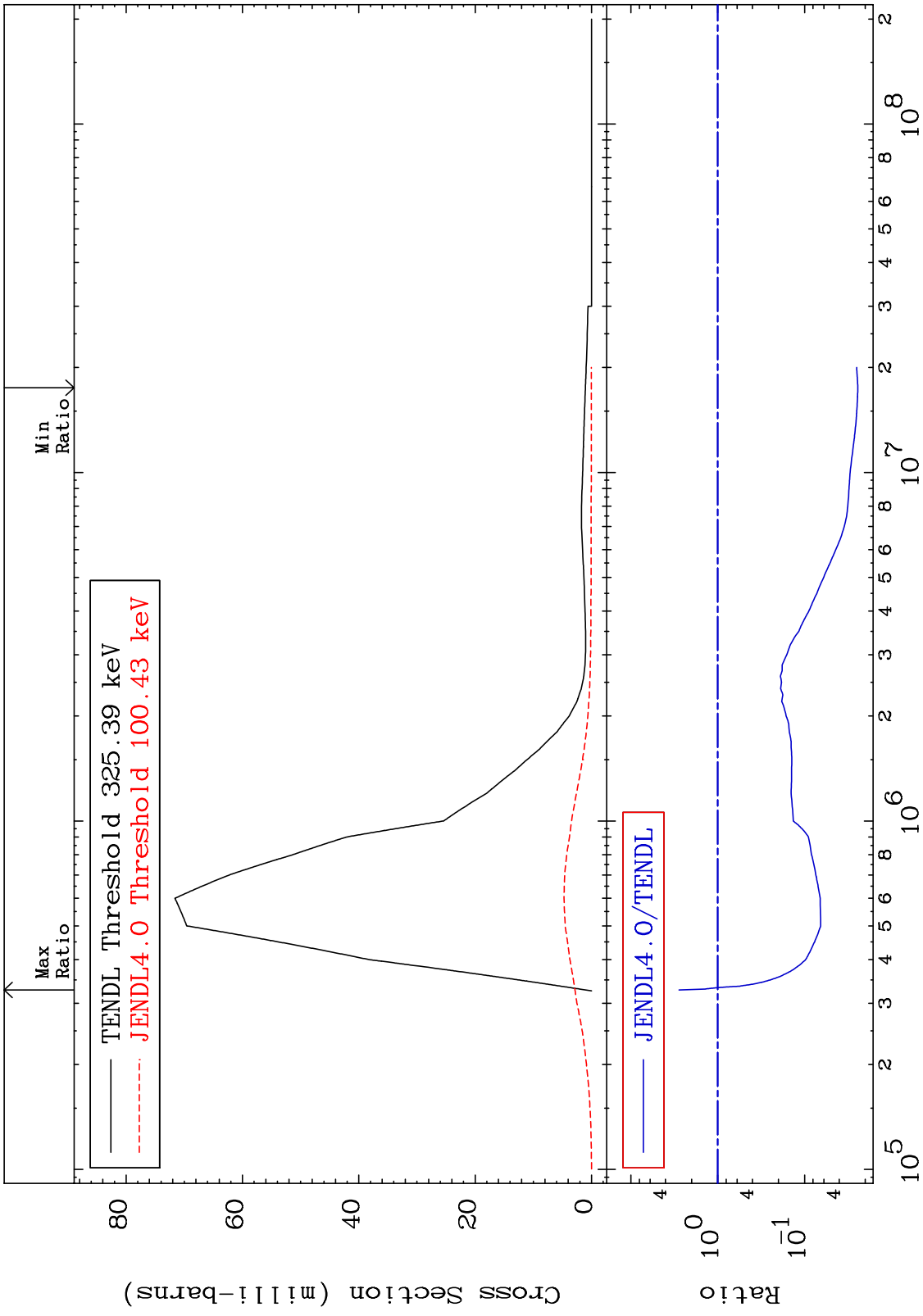
Incident Energy (eV)

93-Np-236

MAT 9343 MT= 53 (n,n') Level Cross Section 93-Np-236  
 -97.05 To 9999. %



MAT 9343 MT= 54 (n,n') Level Cross Section 93-Np-236  
 -97.56 To 179.3 %



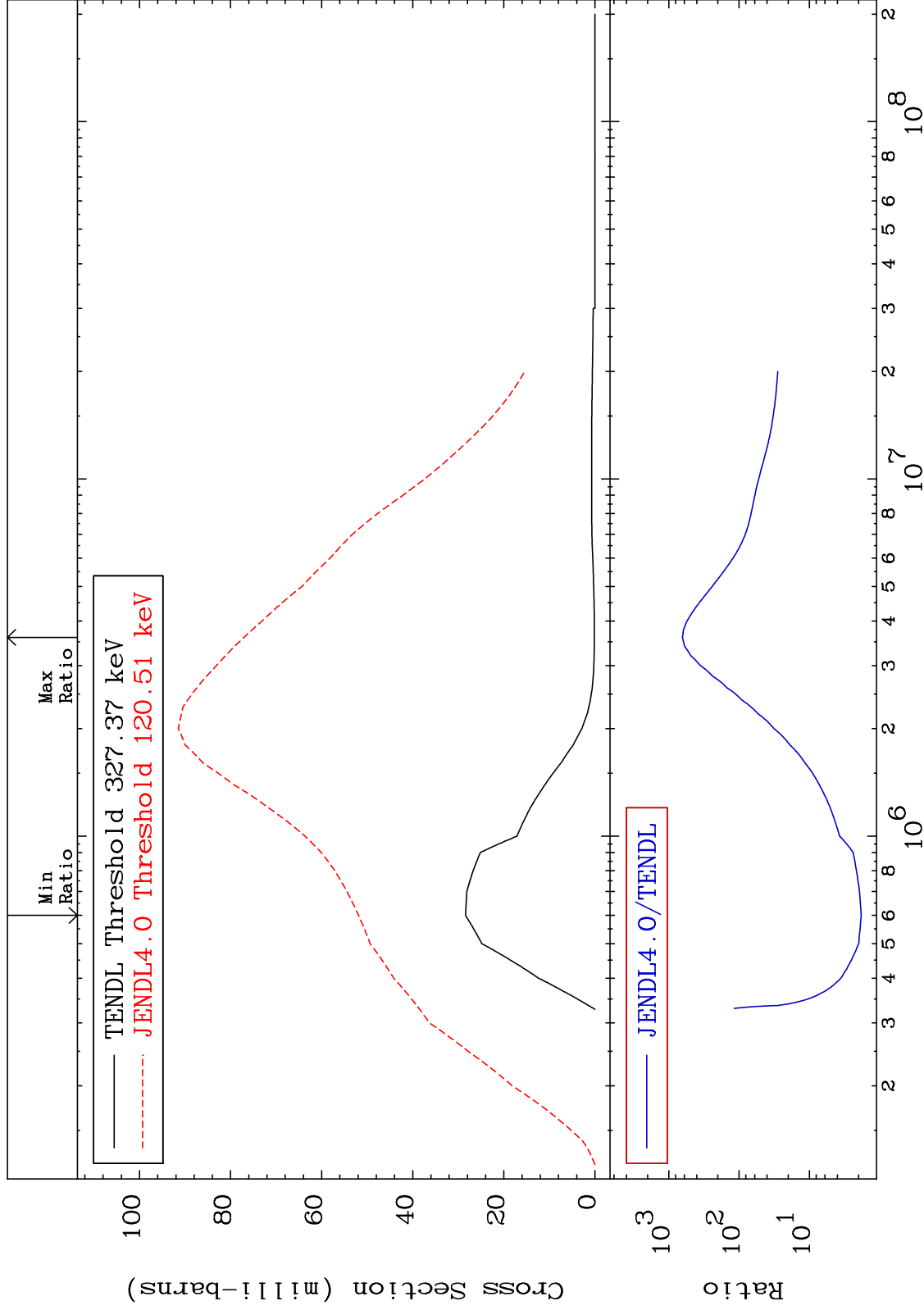
15 Incident Energy (eV) 93-Np-236



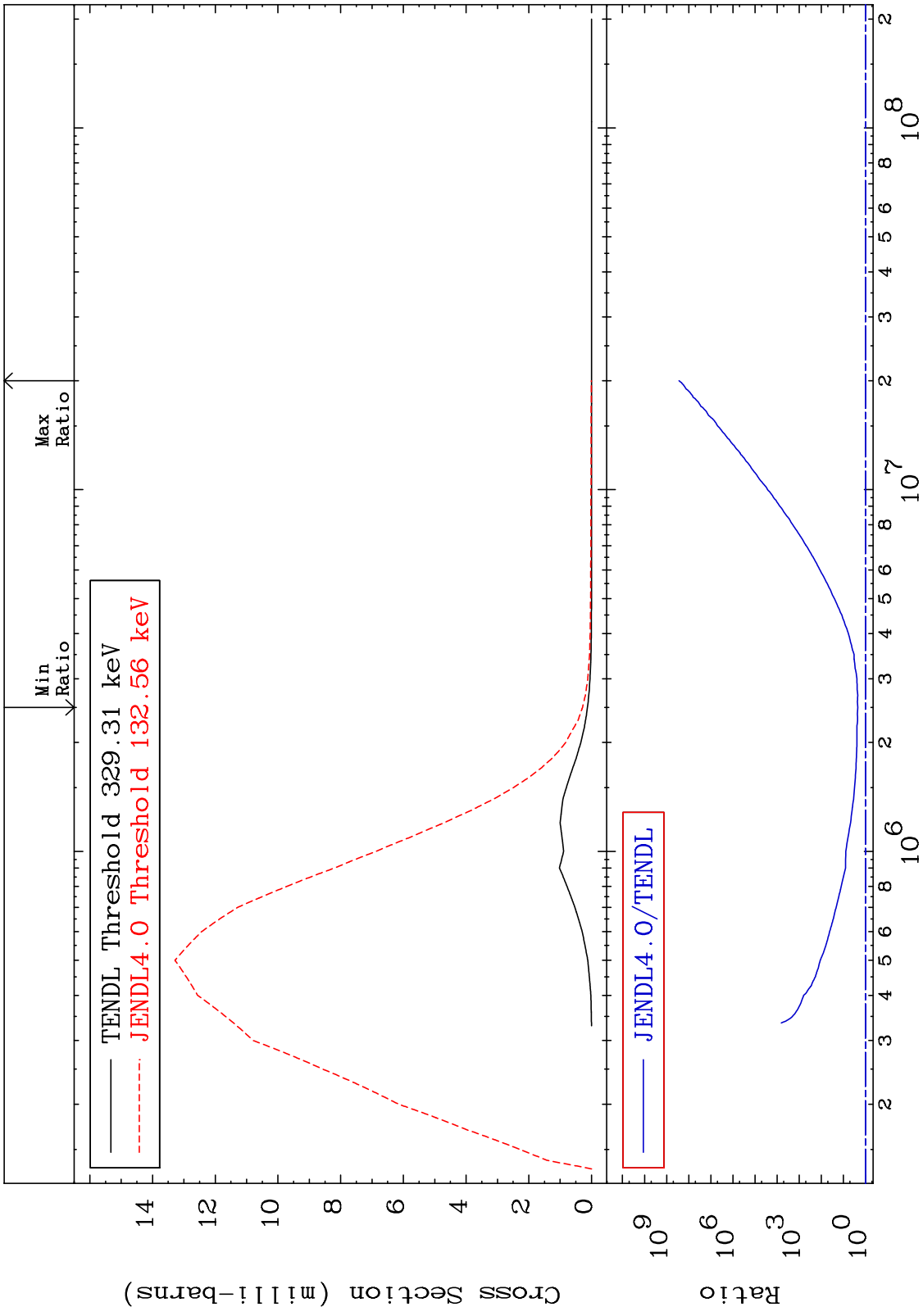
MAT 9343

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

82.60 To 9999. %  
93-Np-236



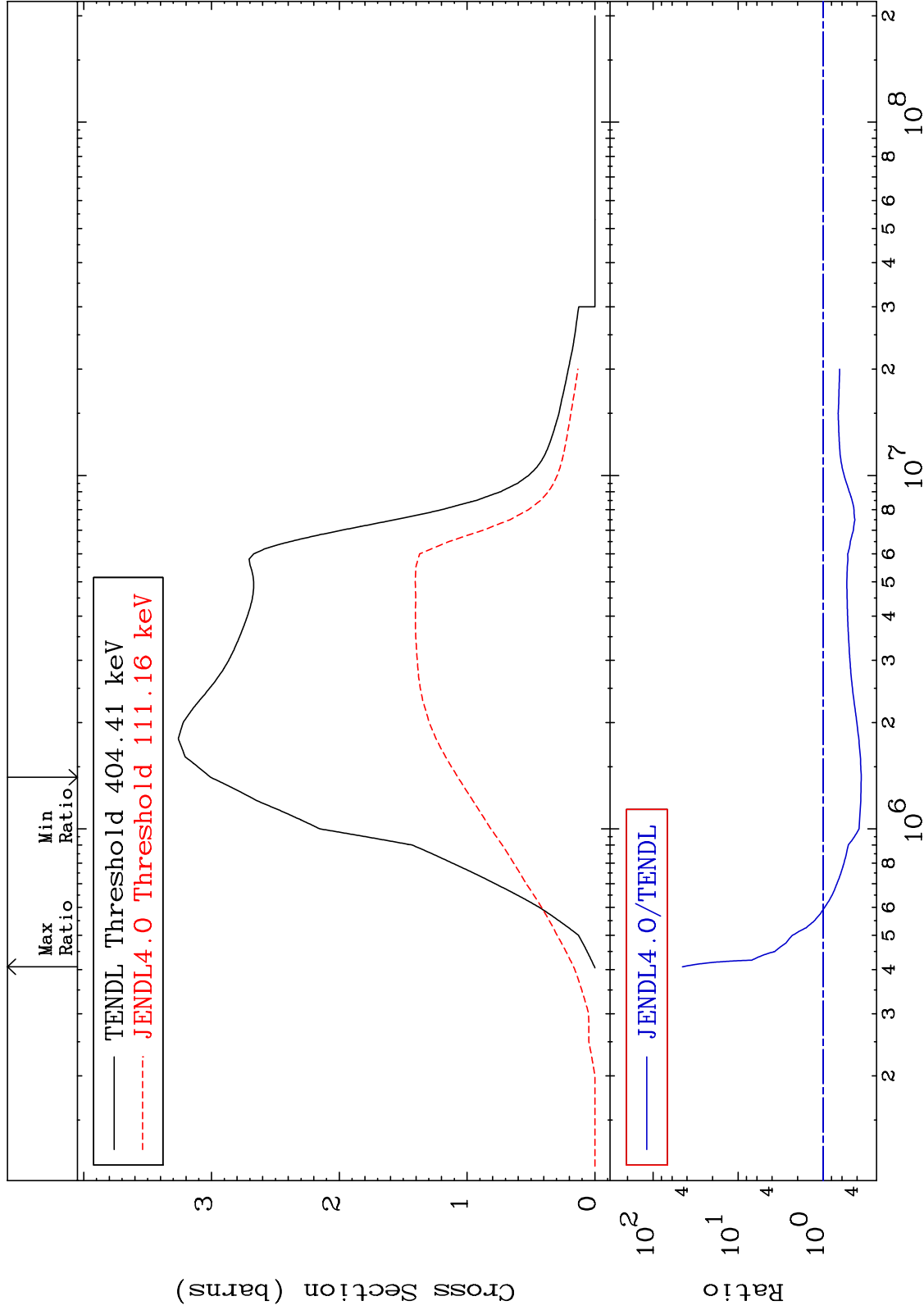
MAT 9343 MT= 56 (n,n') Level Cross Section 93-Np-236 120.3 To 9999. %



MAT 9343

(n, n') Continuum  
Cross Section

93-Np-236  
-64.36 To 4421. %



MAT 9343

93-Np-236

-49.75 To 401.0 %

(n,  $\gamma$ )  
Cross Section

Min Ratio

Max Ratio

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>

Cross Section (barns)

— TENDL

- - - JENDL4.0

6

4

2

Ratio

JENDL4.0/TENDL

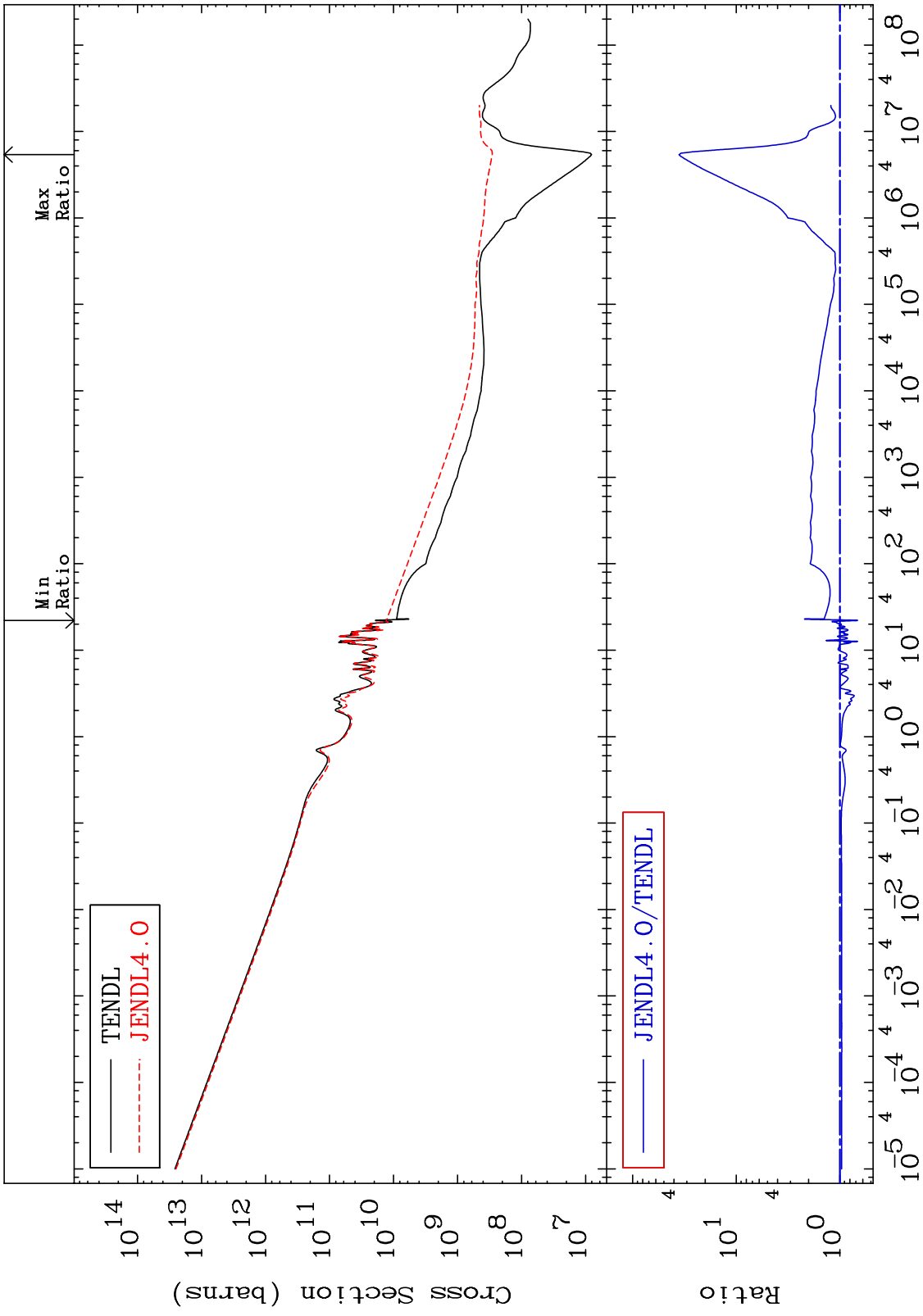
10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

Incident Energy (eV)

93-Np-236

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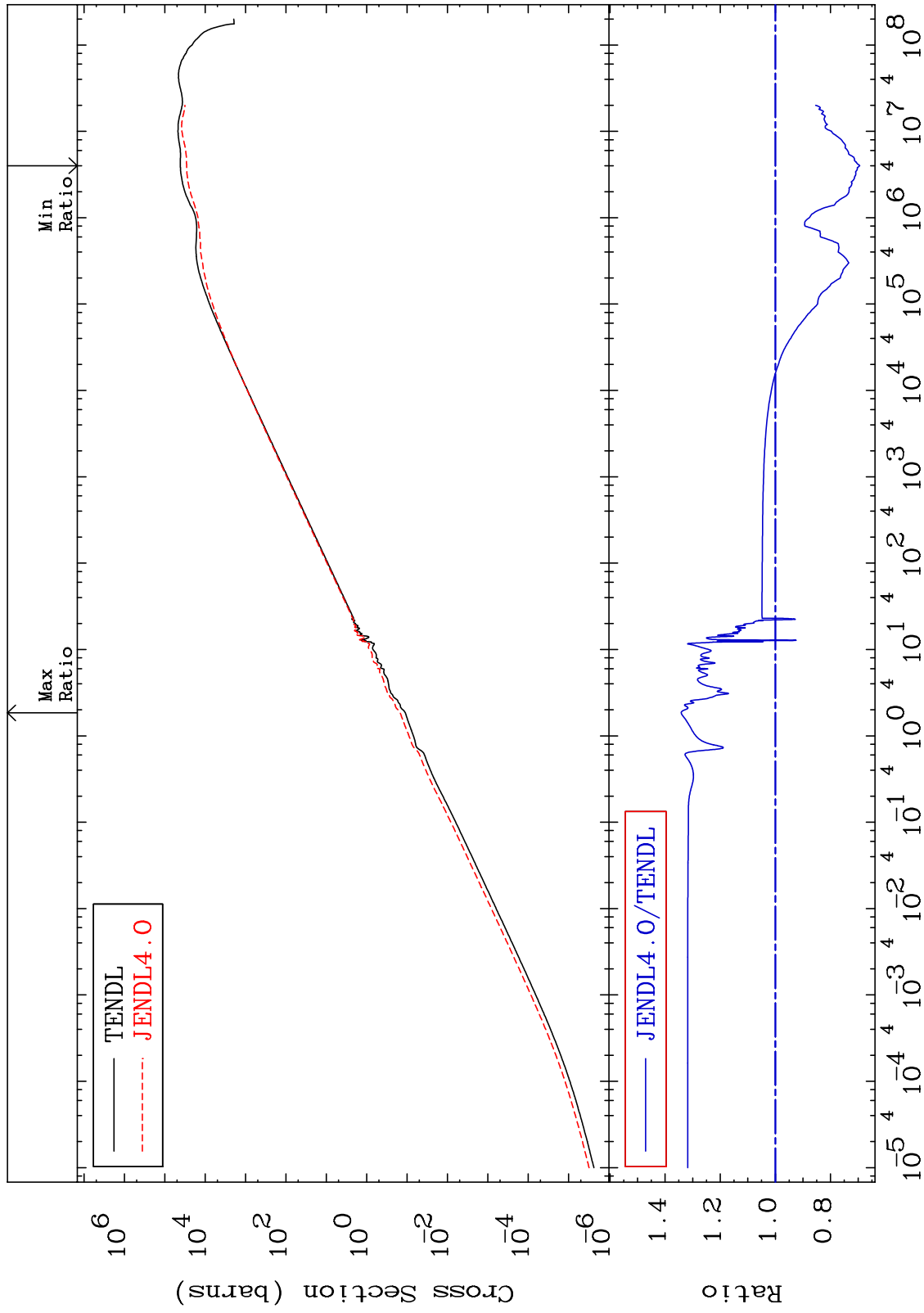
MAT 9343 Kerma total (eV-barns) Cross Section 93-Np-236 -33.00 To 3471. %



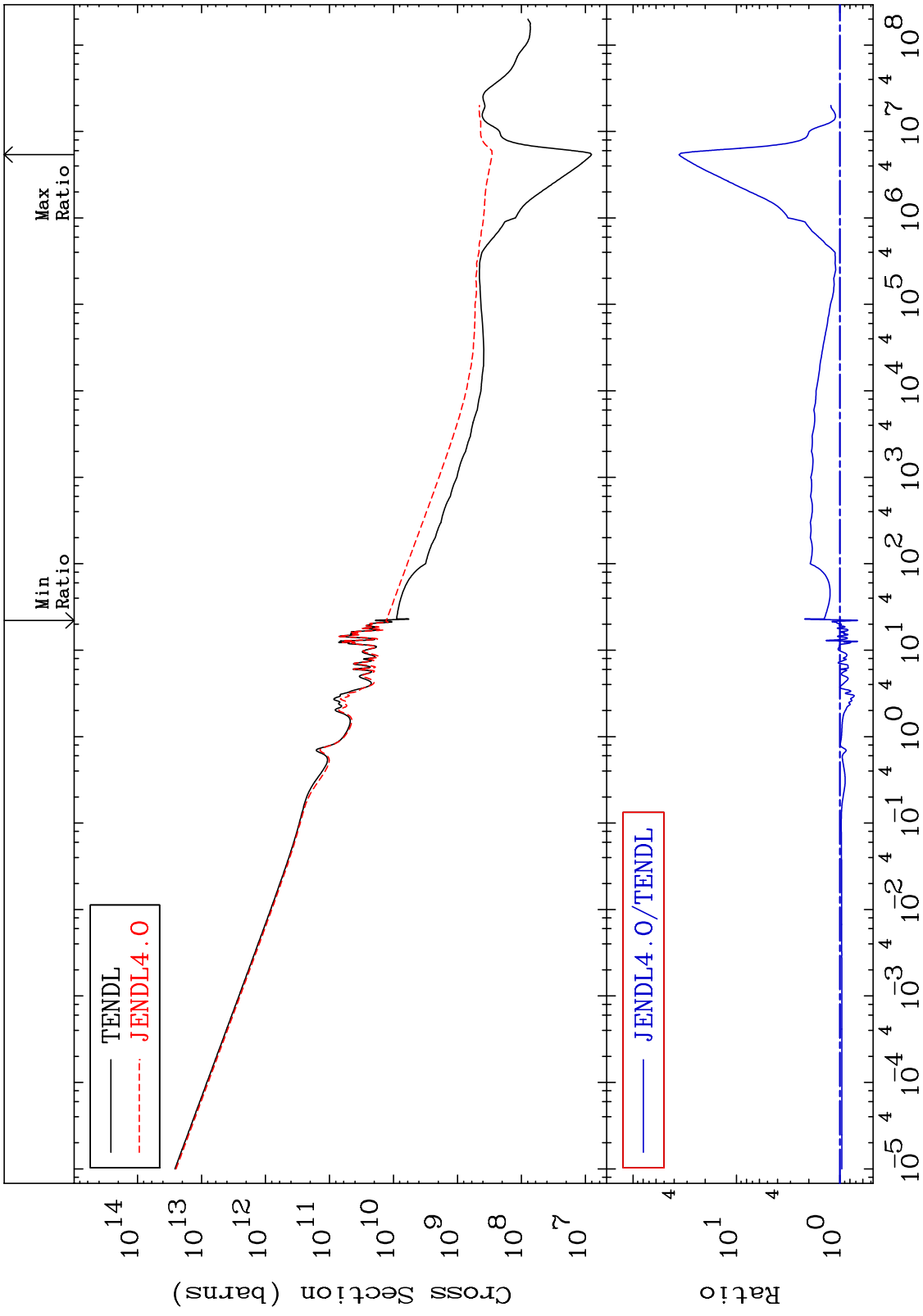
MAT 9343

Kerma elastic  
Cross Section

93-Np-236  
-30.61 To 34.13 %



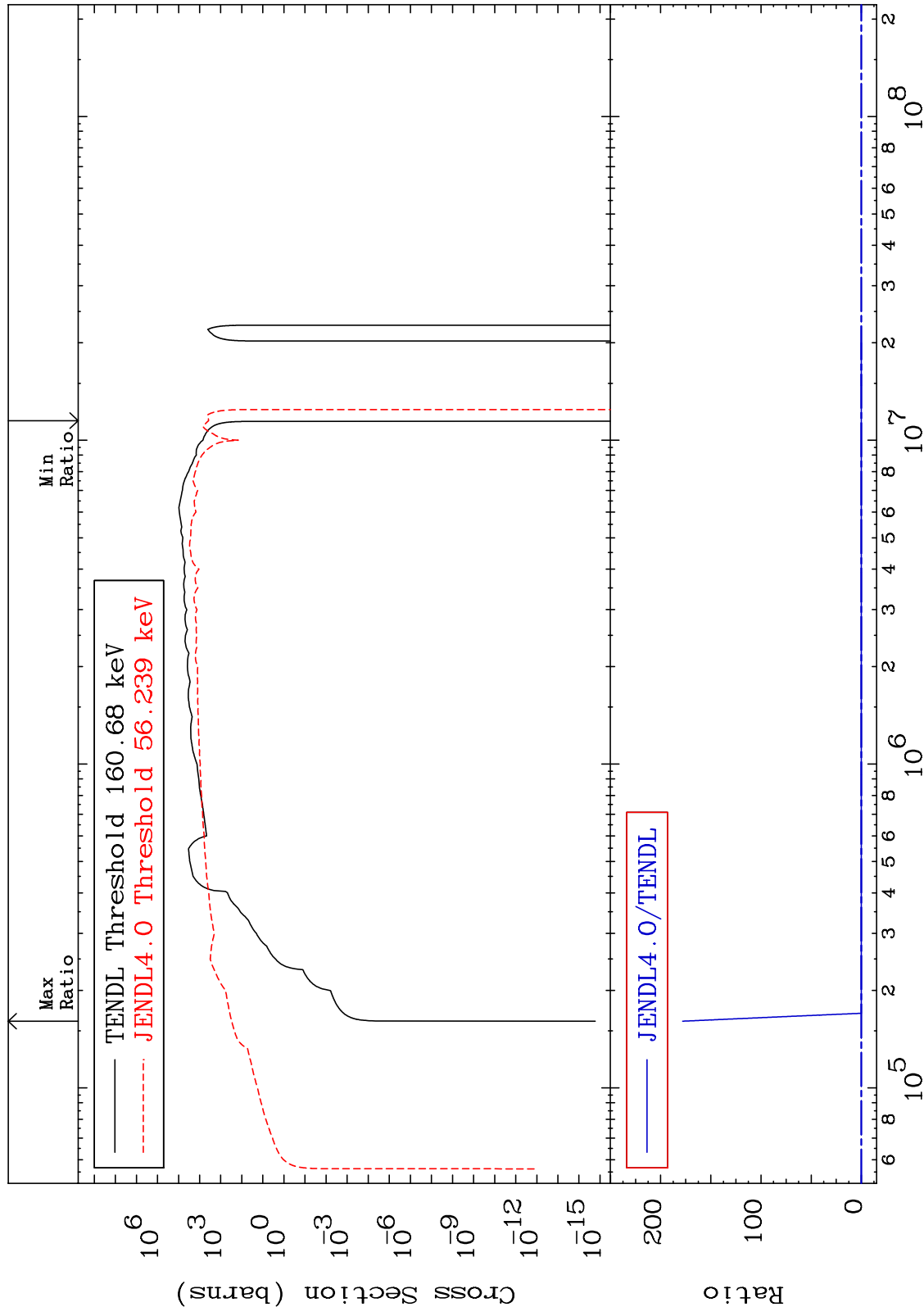
MAT 9343 Kerma non-elastic (all but mt2) 93-Np-236  
 Cross Section -33.00 To 3489. %



MAT 9343

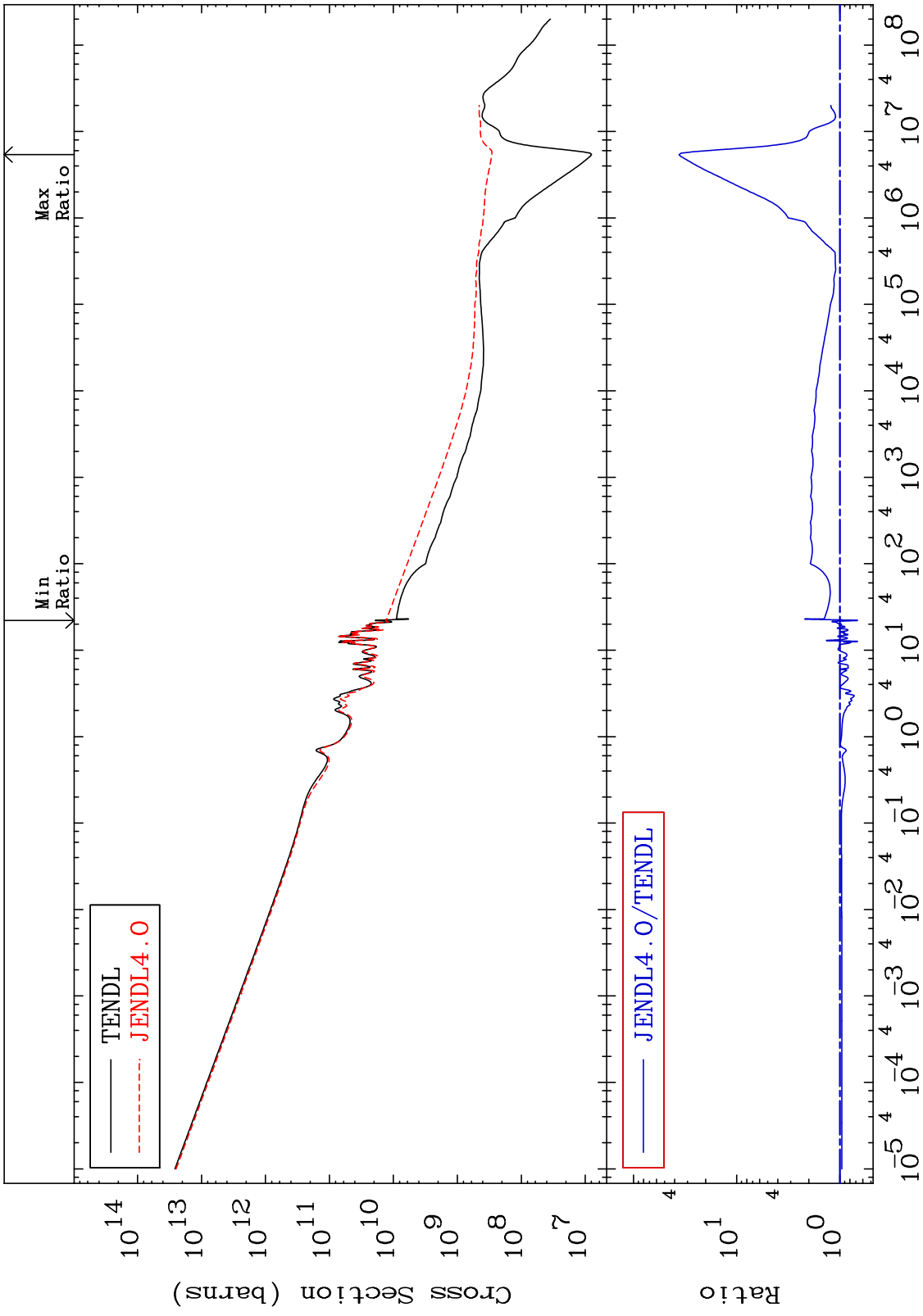
Kerma inelastic (mt51-91)  
Cross Section

93-Np-236  
-1291. To 9999. %

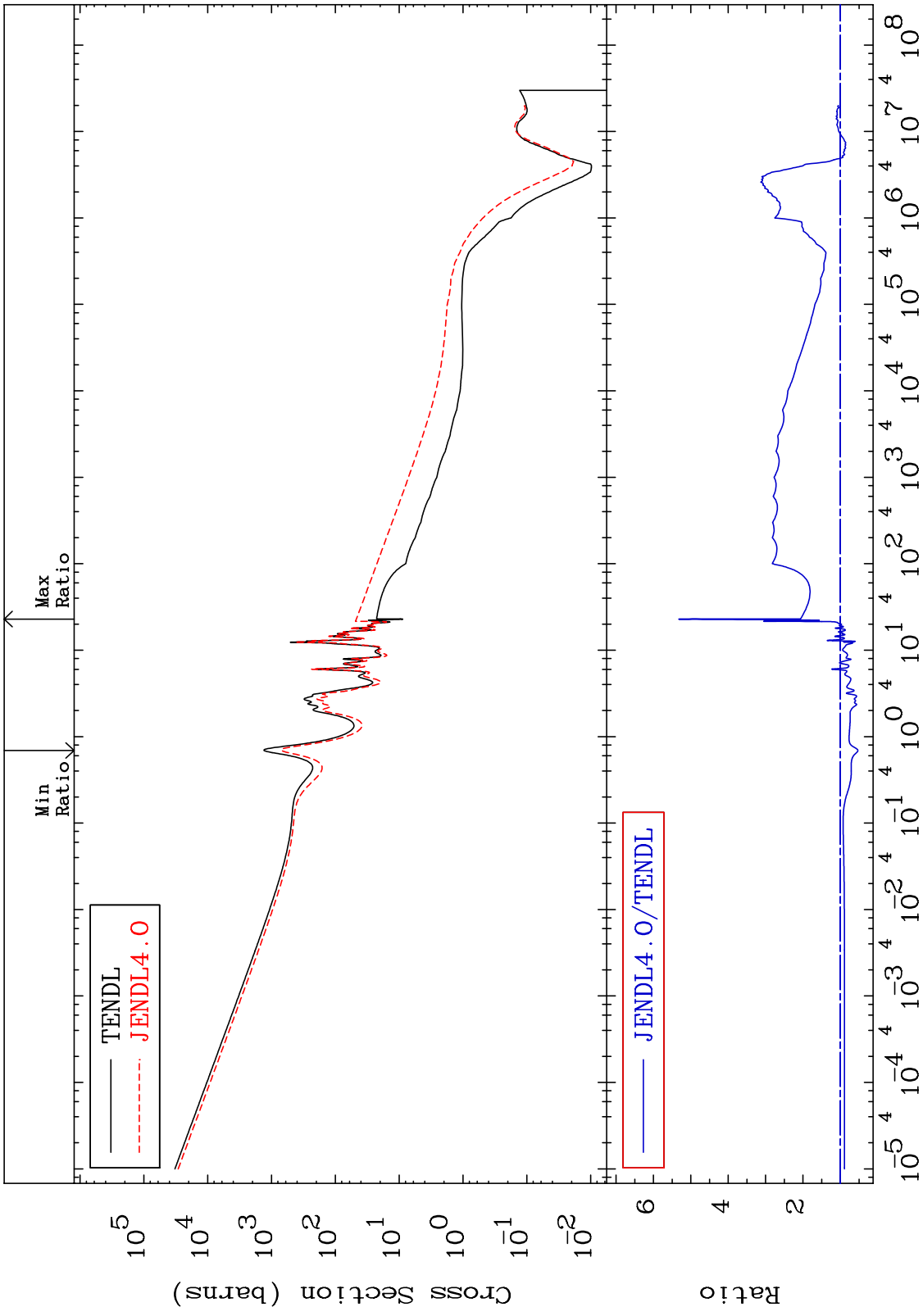




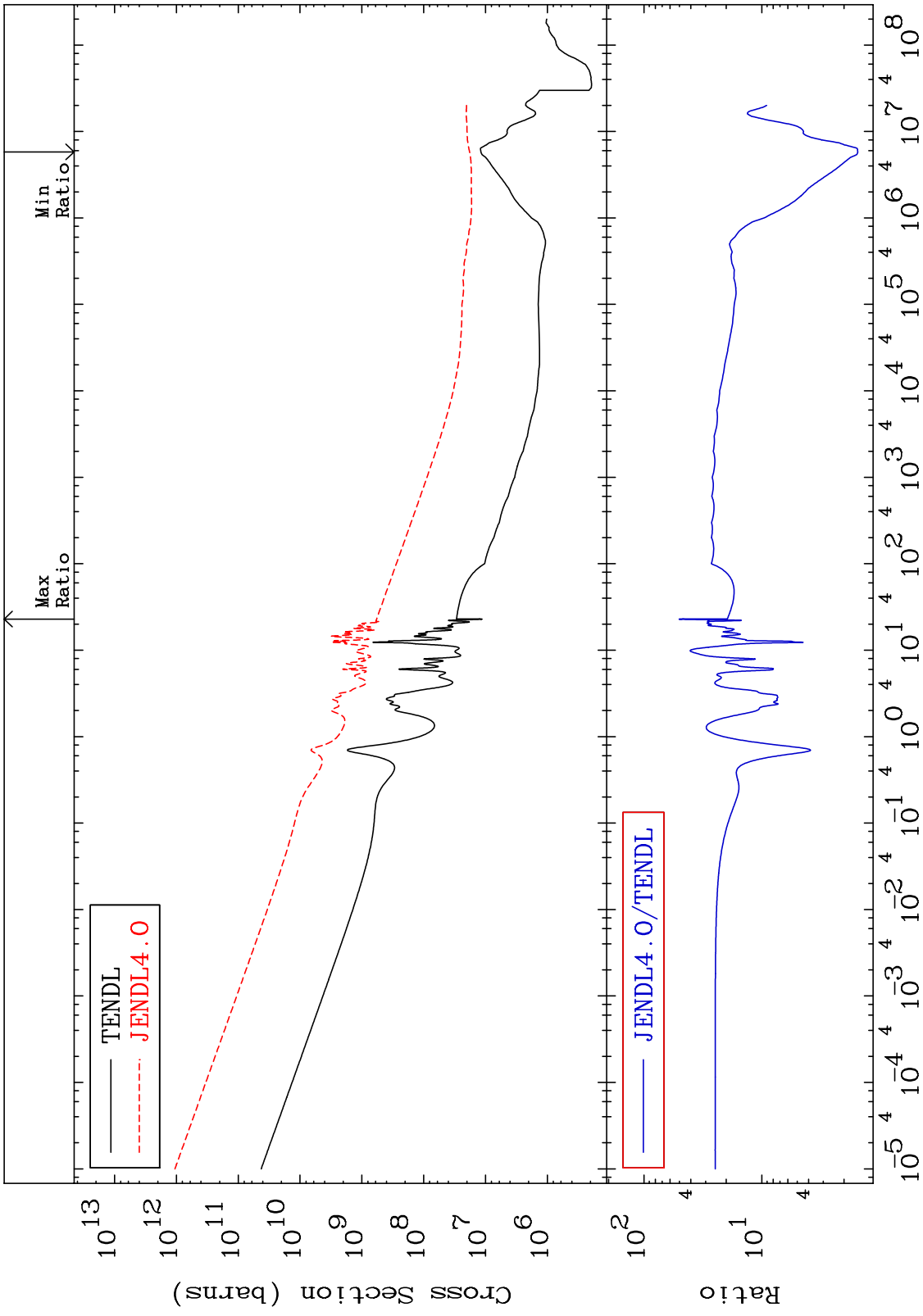
MAT 9343 Kerma fission (mt18 or mt19-20-21-38) 93-Np-236  
 Cross Section -33.00 To 3520. %



MAT 9343 93-Np-236  
 Kerma capture (mt102) -46.68 To 431.6 %  
 Cross Section



MAT 9343 93-Np-236  
 Total photon (eV-barns) 52.70 To 4936. %  
 Cross Section

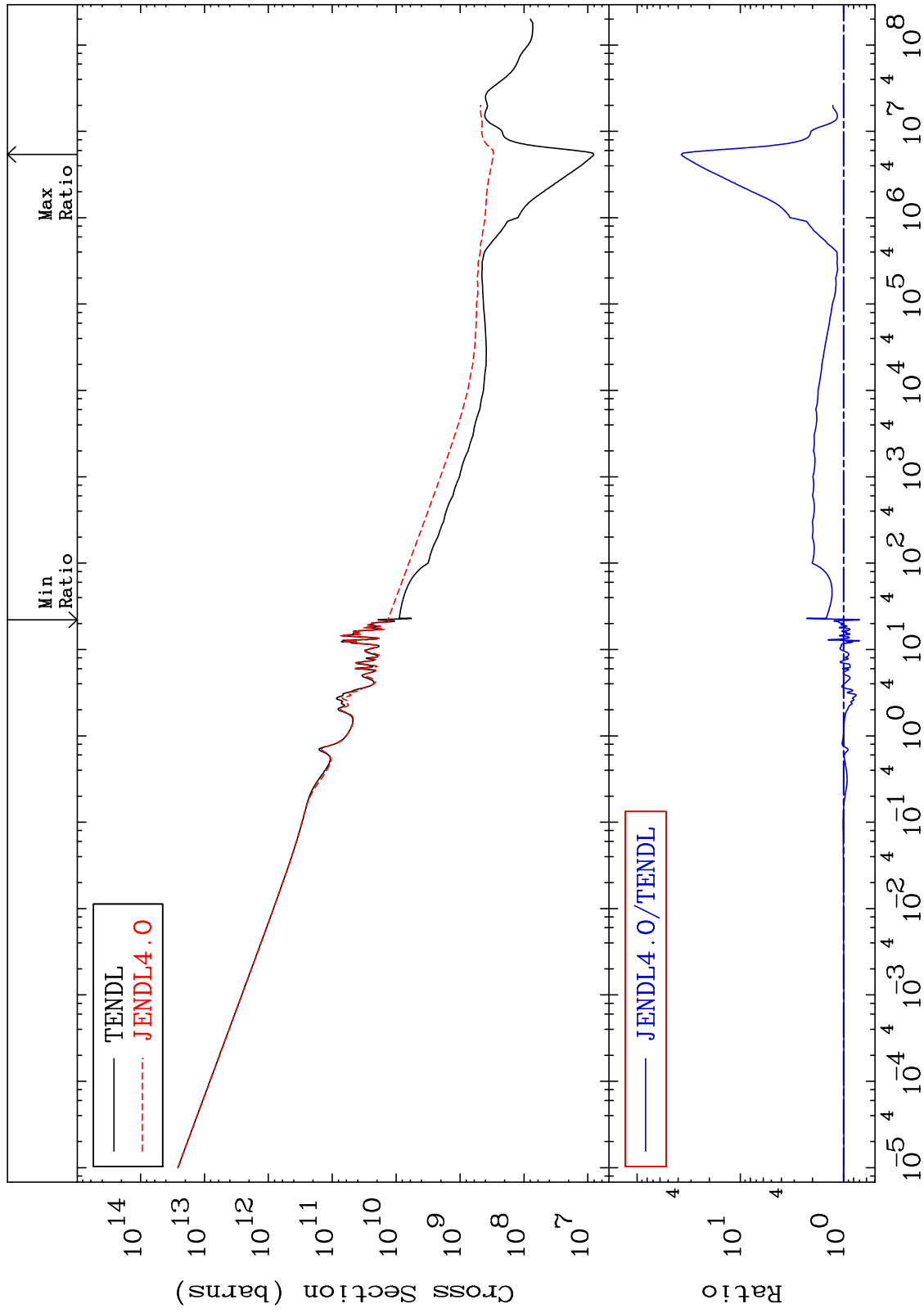


26 93-Np-236

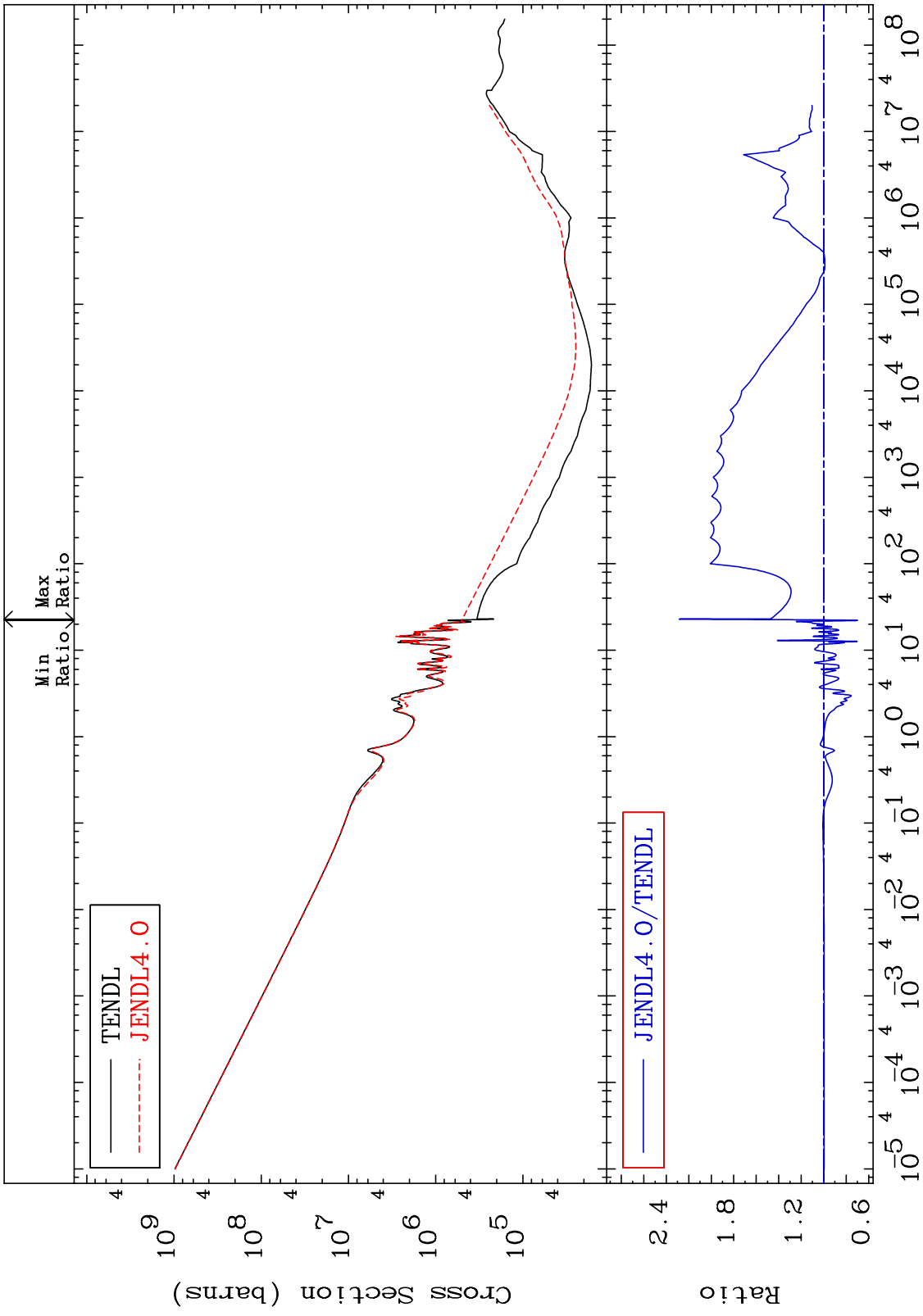
MAT 9343

Total kinematic kerma (high limit)  
Cross Section

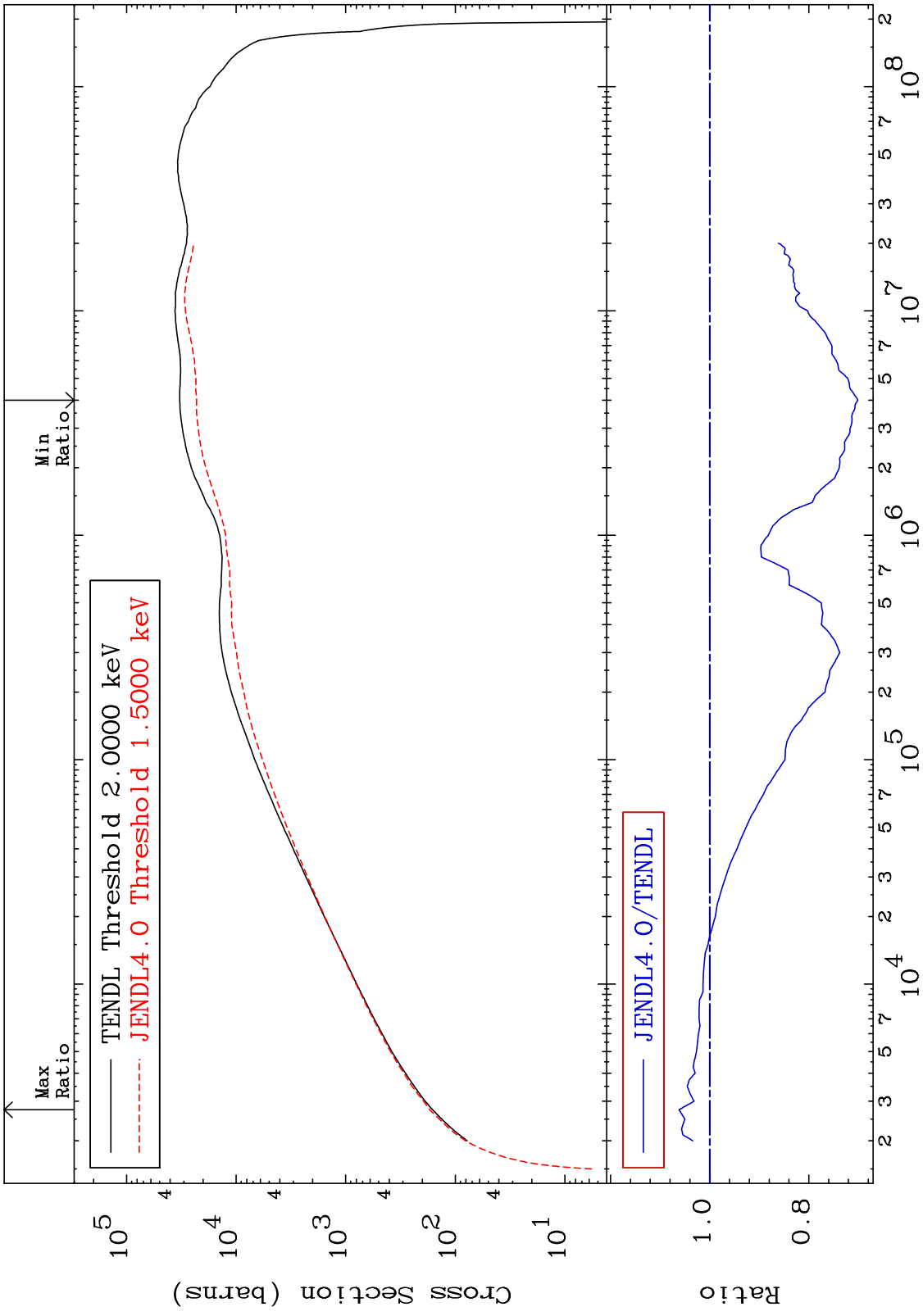
93-Np-236  
-30.26 To 3635. %



MAT 9343      Dpa total (eV-barns)      93-Np-236  
Cross Section      -30.41 To 128.6 %



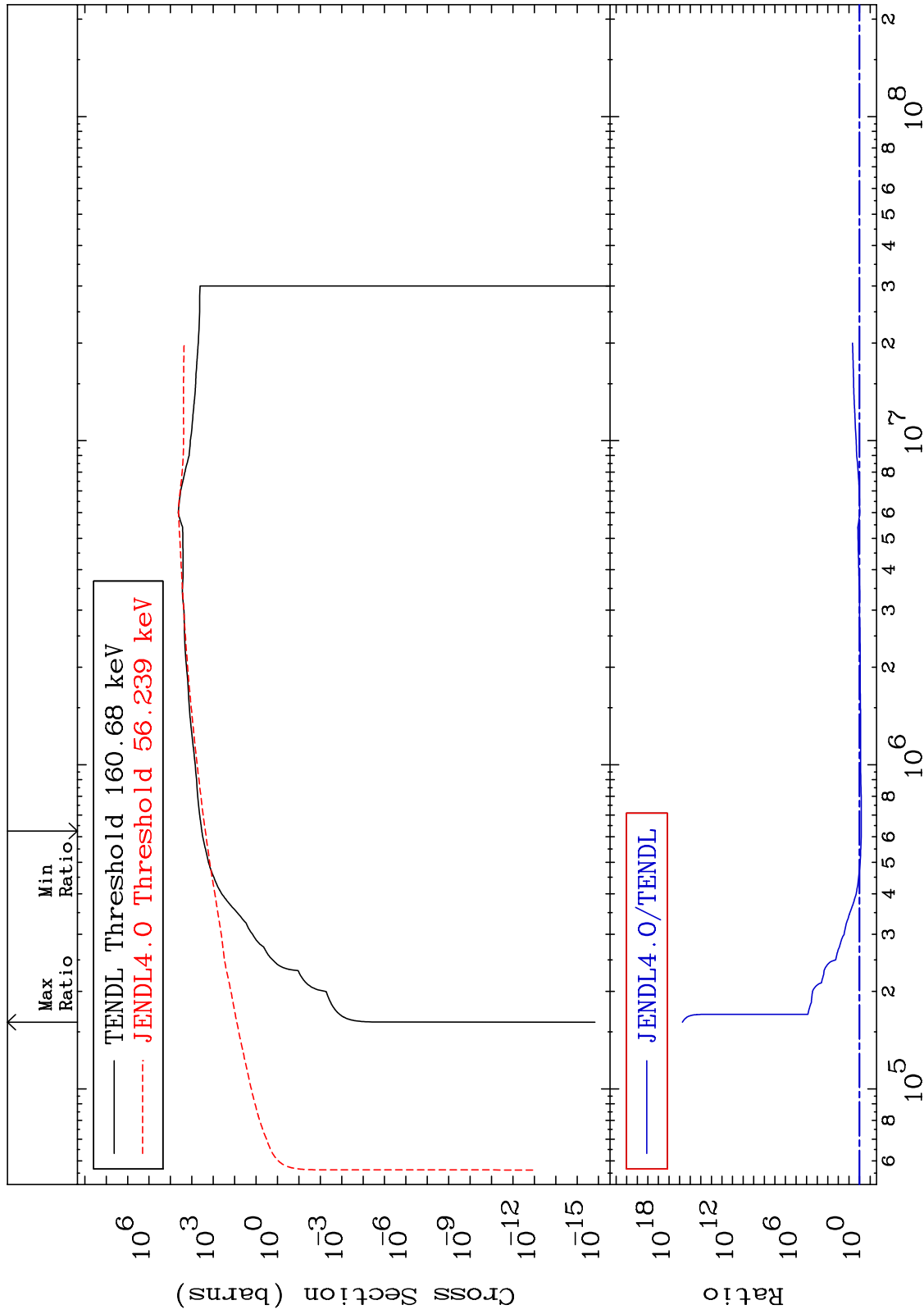
MAT 9343 93-Np-236  
 Dpa elastic (mt2) -29.89 To 6.184 %  
 Cross Section



MAT 9343

Dpa inelastic (mt51-91)  
Cross Section

93-Np-236  
-31.30 To 9999. %



MAT 9343      Dpa disappearance (mt102 -120)      93-Np-236  
 Cross Section      -100.0 To 388.3 %

