

Program Complot  
(Version 2021-1)

by

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(Present Contact Information)

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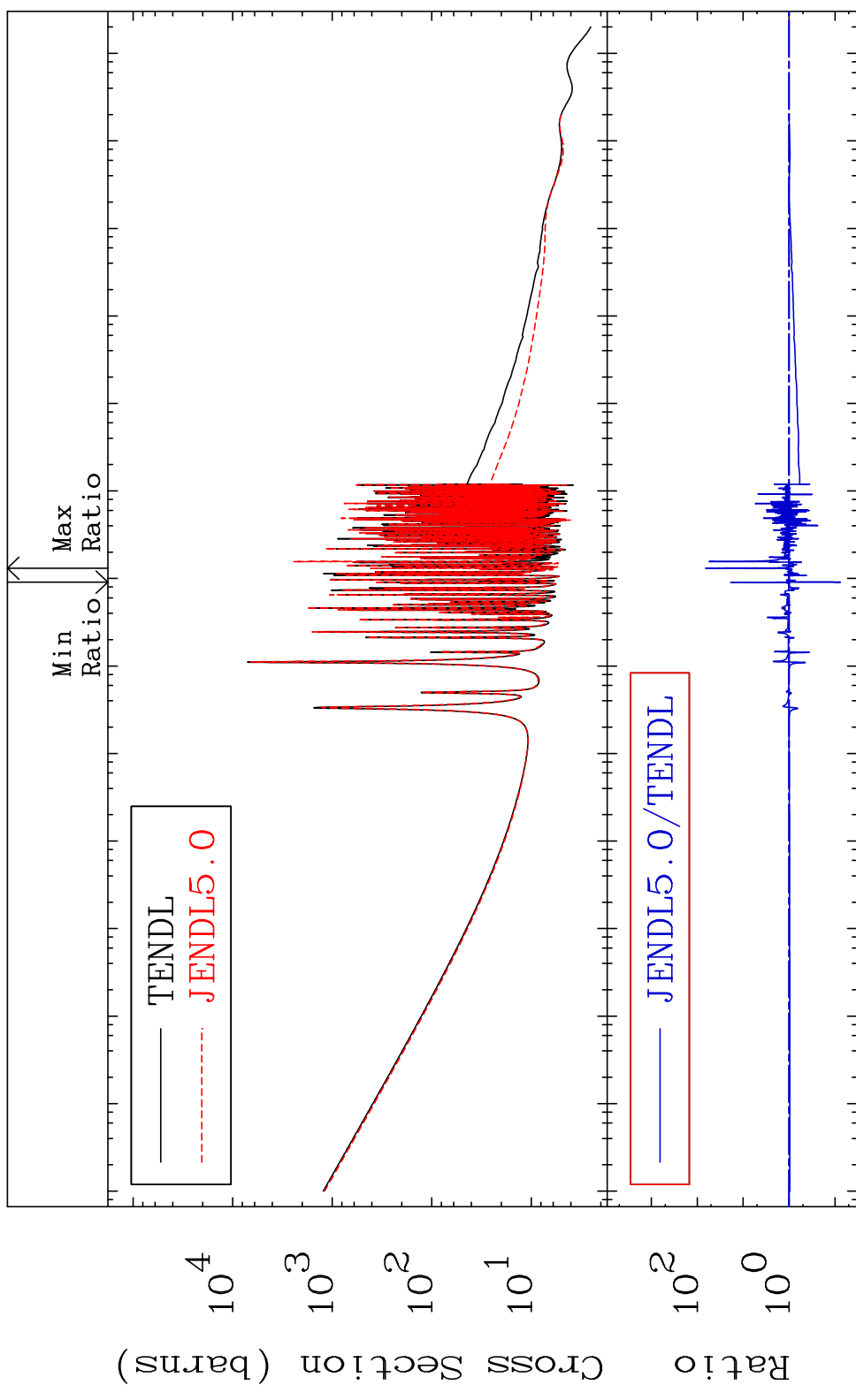
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 6525

Total 65-Tb-159  
Cross Section -92.38 To 6430. %



1 Incident Energy (eV) 65-Tb-159

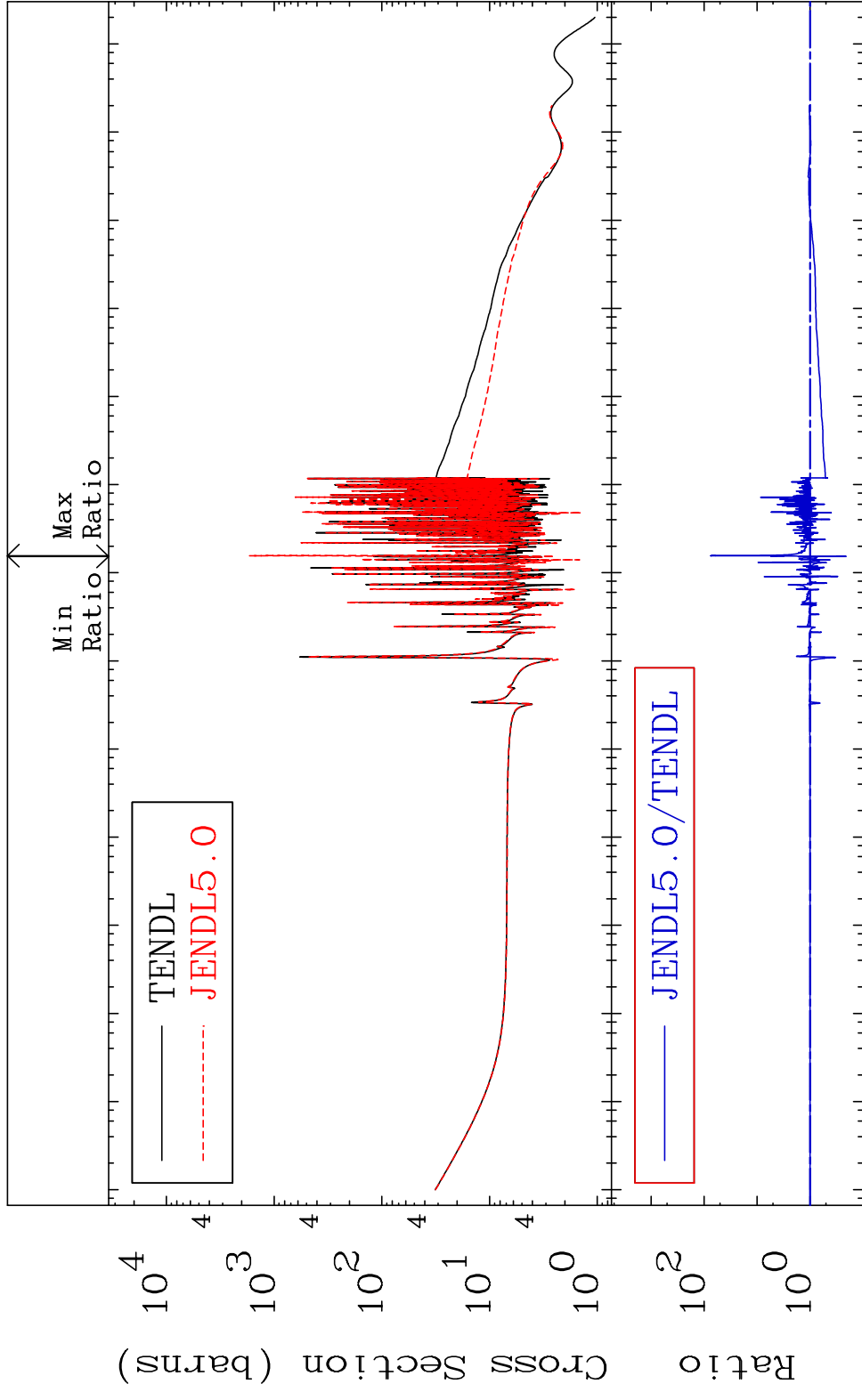
MAT 6525

Elastic

65-Tb-159

Cross Section

-79.41 To 7390. %



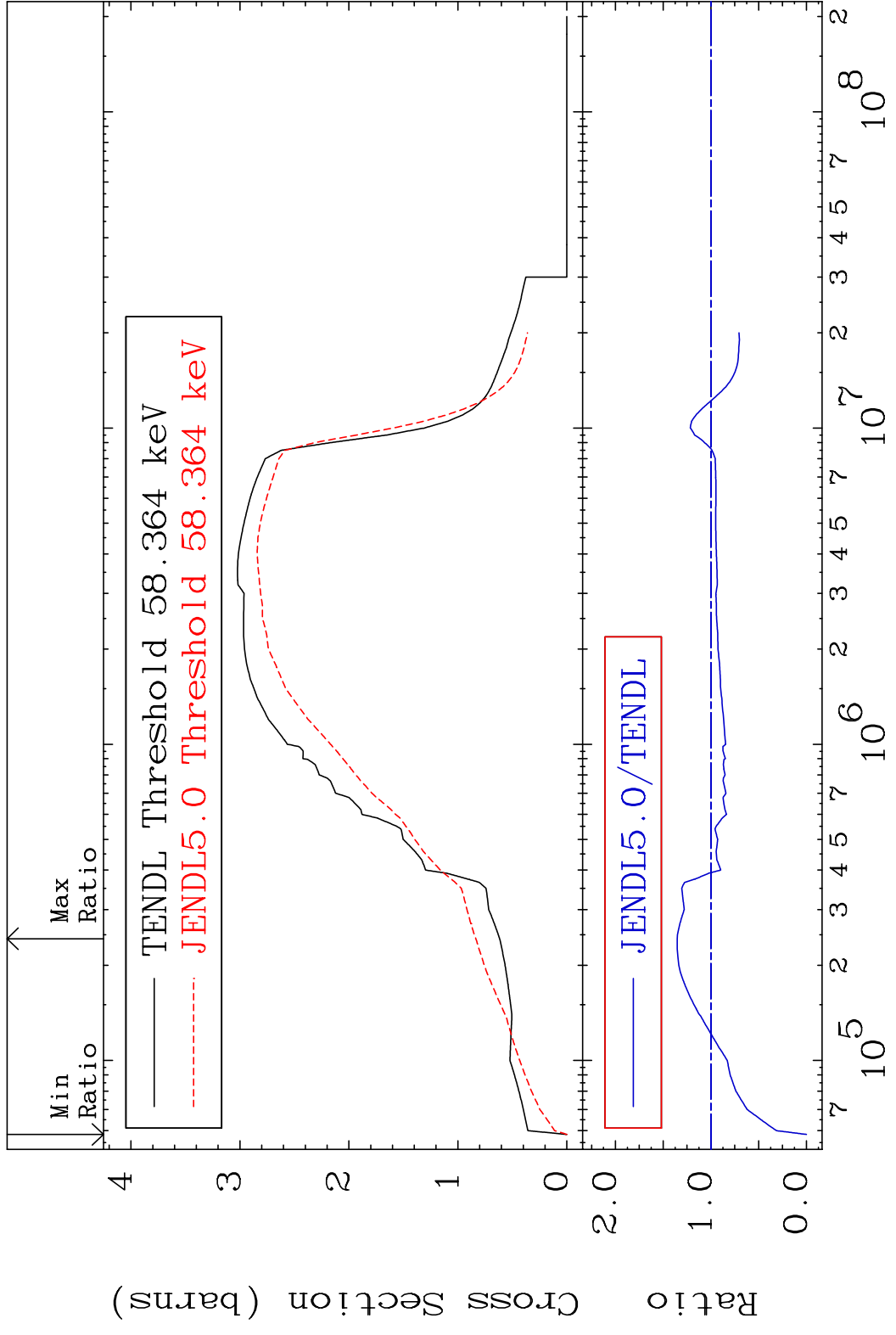
10<sup>4</sup> 10<sup>3</sup> 10<sup>2</sup> 10<sup>1</sup> 10<sup>0</sup> 10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

2

Incident Energy (eV)

65-Tb-159

MAT 6525 Inelastic 65-Tb-159  
 Cross Section -100.0 To 35.33 %



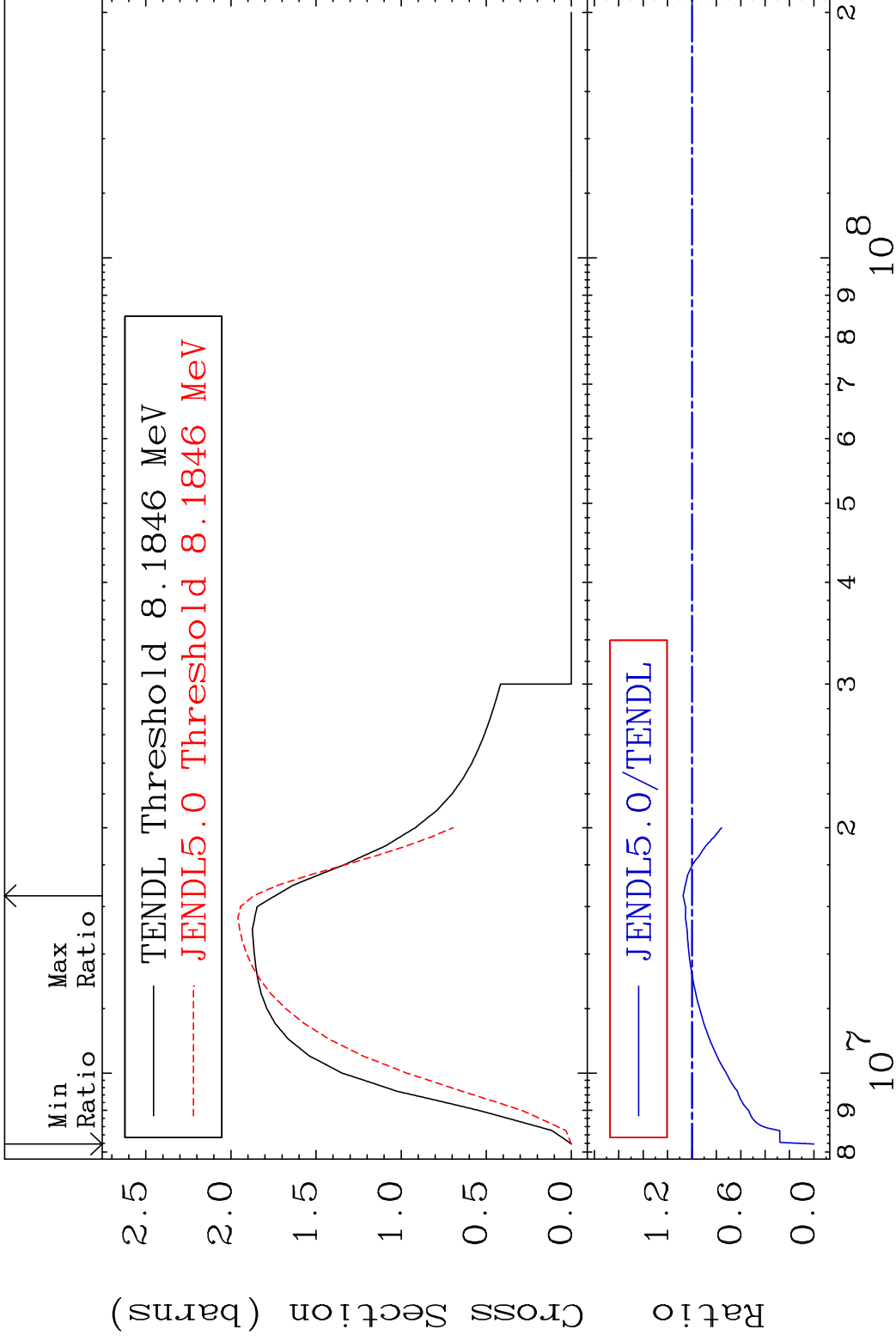
3 Incident Energy (eV) 65-Tb-159

MAT 6525

(n,2n)

65-Tb-159

Cross Section -100.0 To 7.294 %



4

Incident Energy (eV)

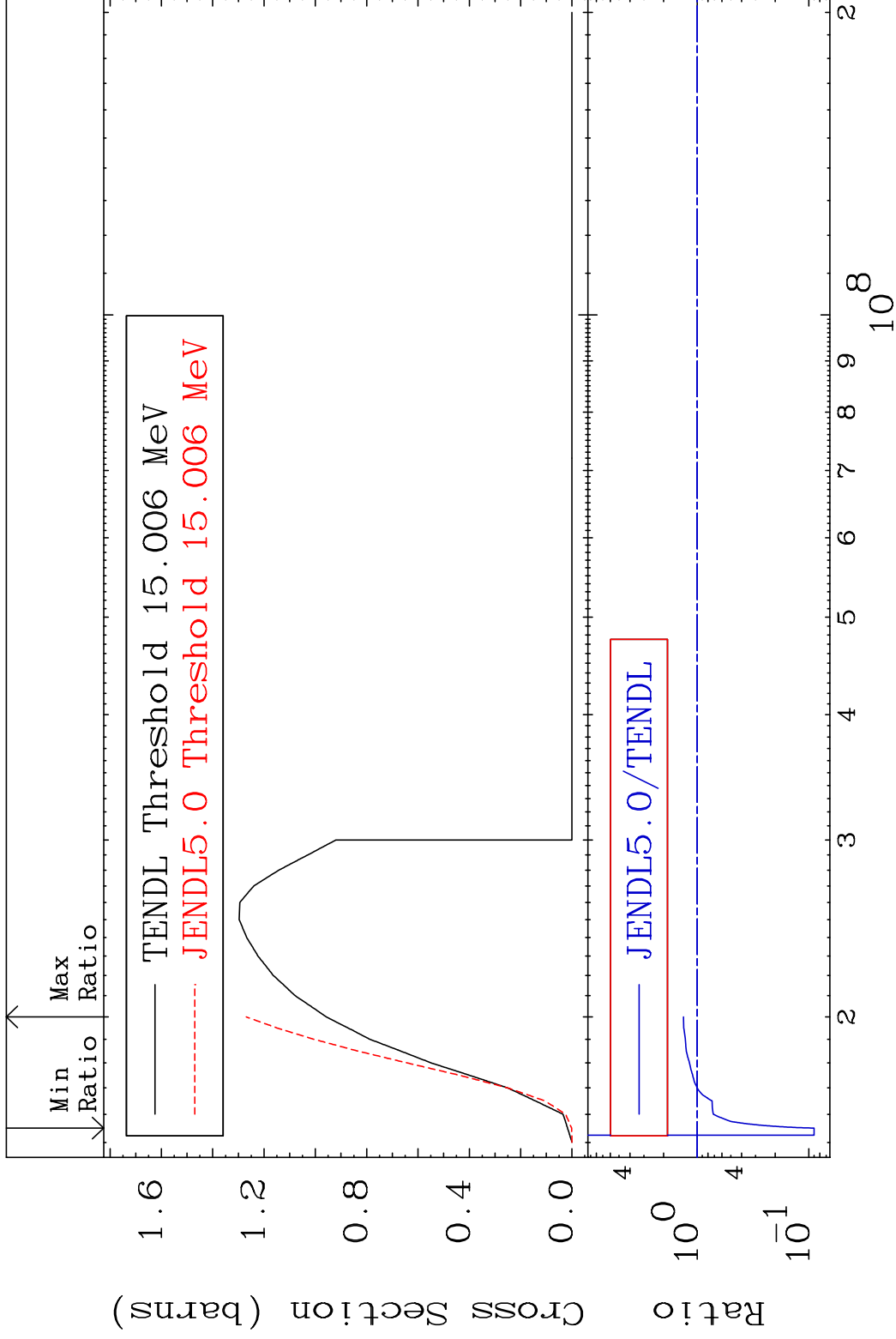
65-Tb-159

MAT 6525

(n,3n)

65-Tb-159

Cross Section -91.01 To 32.63 %



5

Incident Energy (eV)

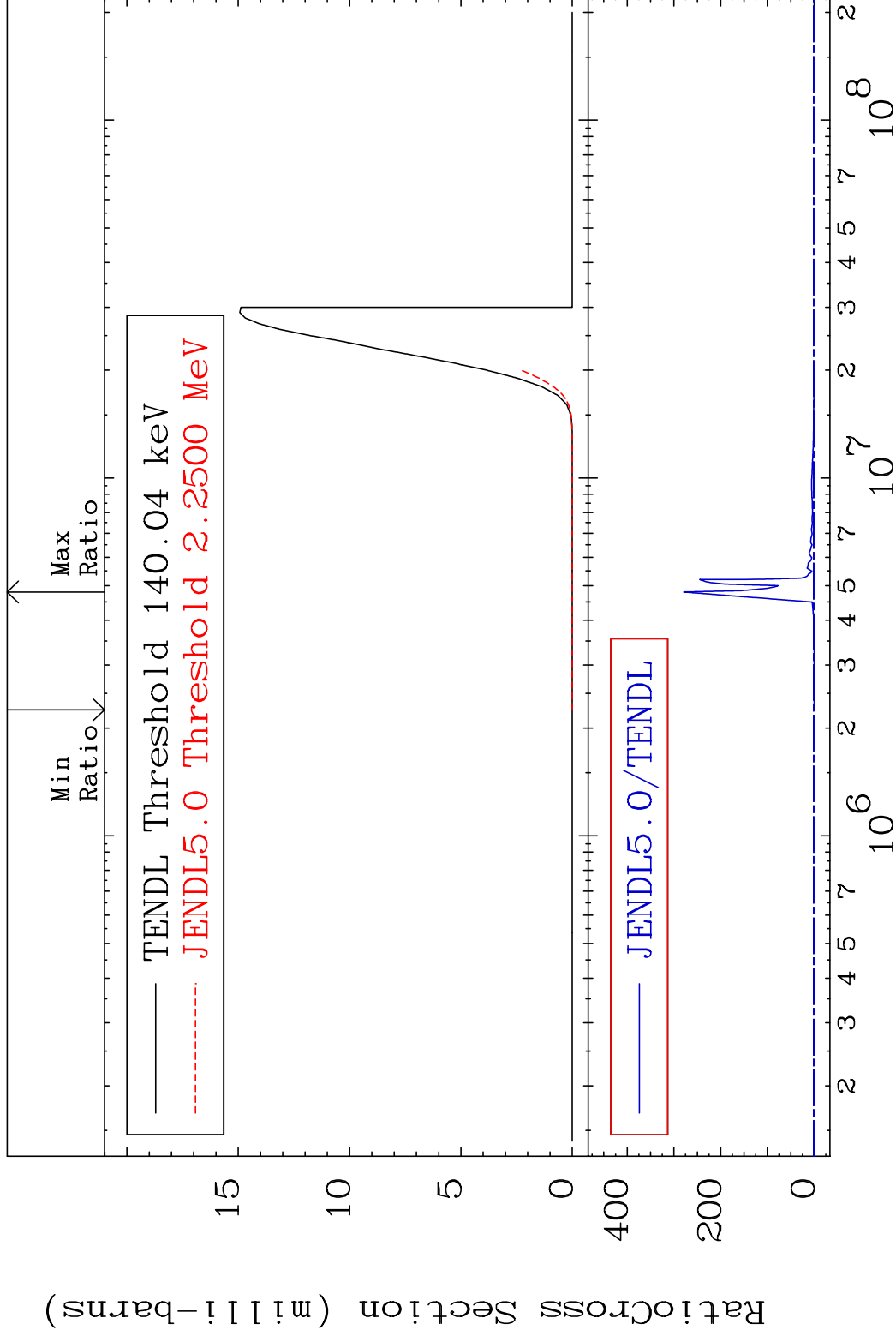
65-Tb-159

MAT 6525

(n, n')  $\alpha$

65-Tb-159

Cross Section -100.0 To 9999. %



6

Incident Energy (eV)

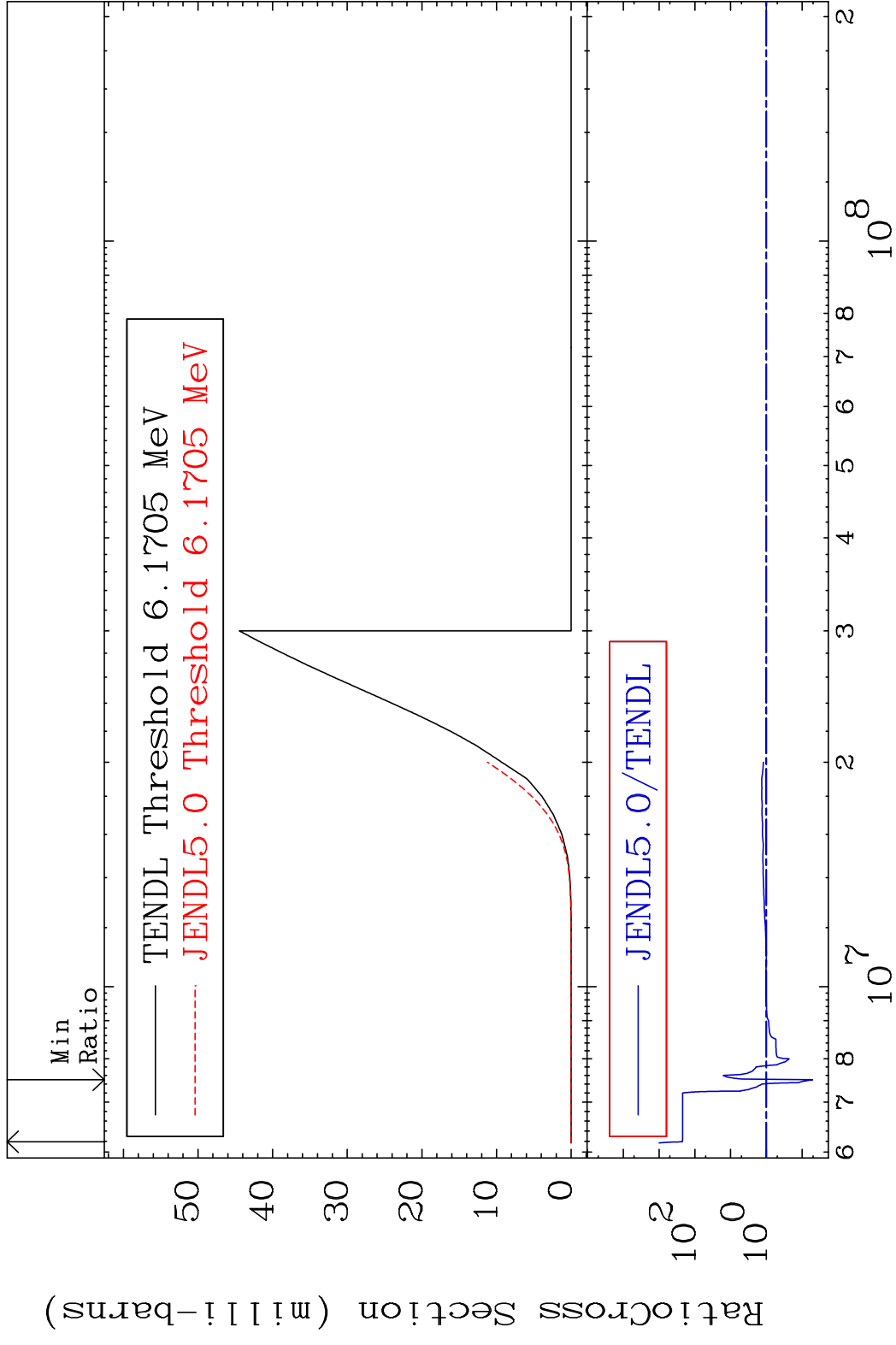
65-Tb-159

MAT 6525

(n, n') p

65-Tb-159

Cross Section -94.86 To 9999. %



7

Incident Energy (eV)

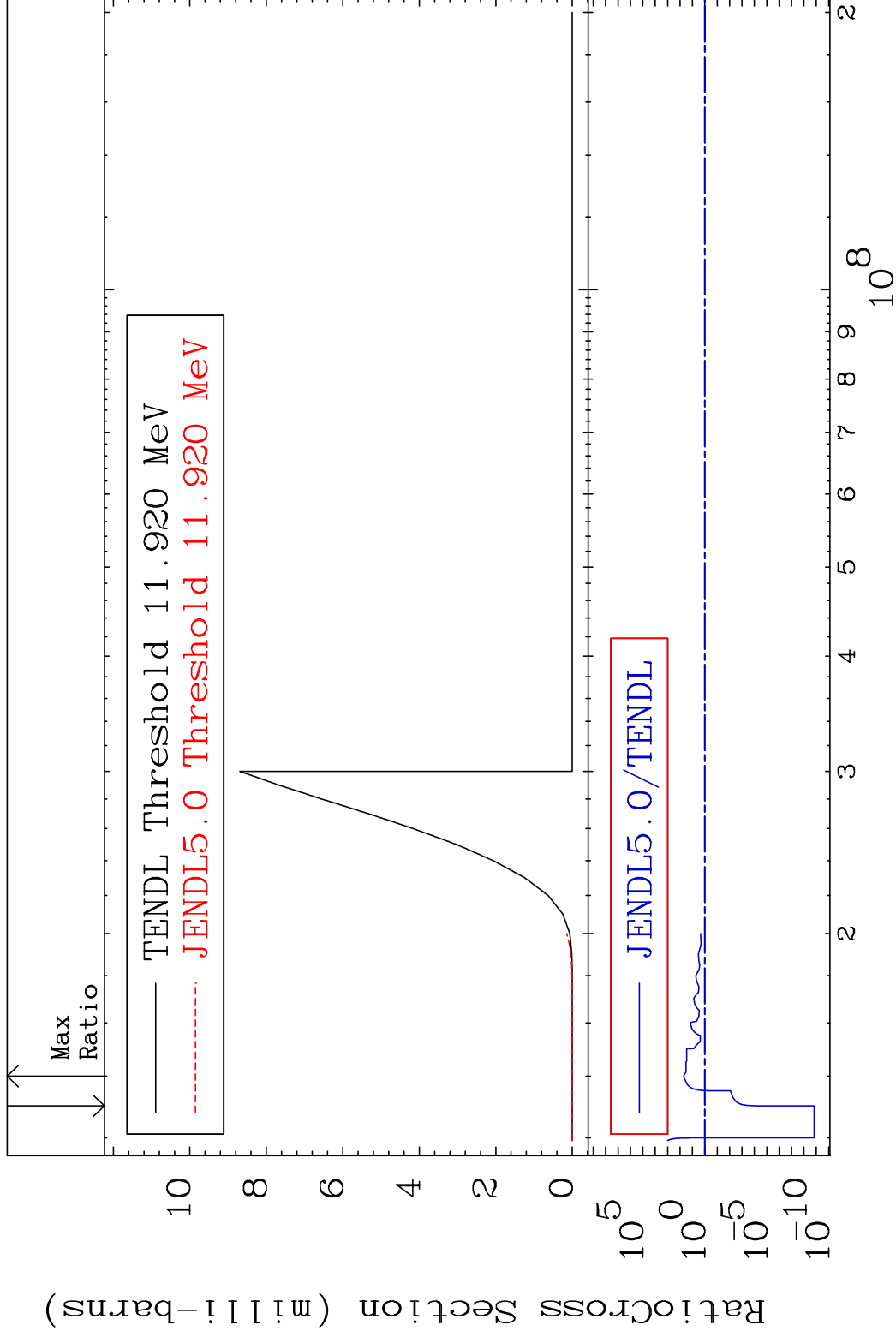
65-Tb-159

MAT 6525

(n, n') d

65-Tb-159

Cross Section -100.0 To 4962. %

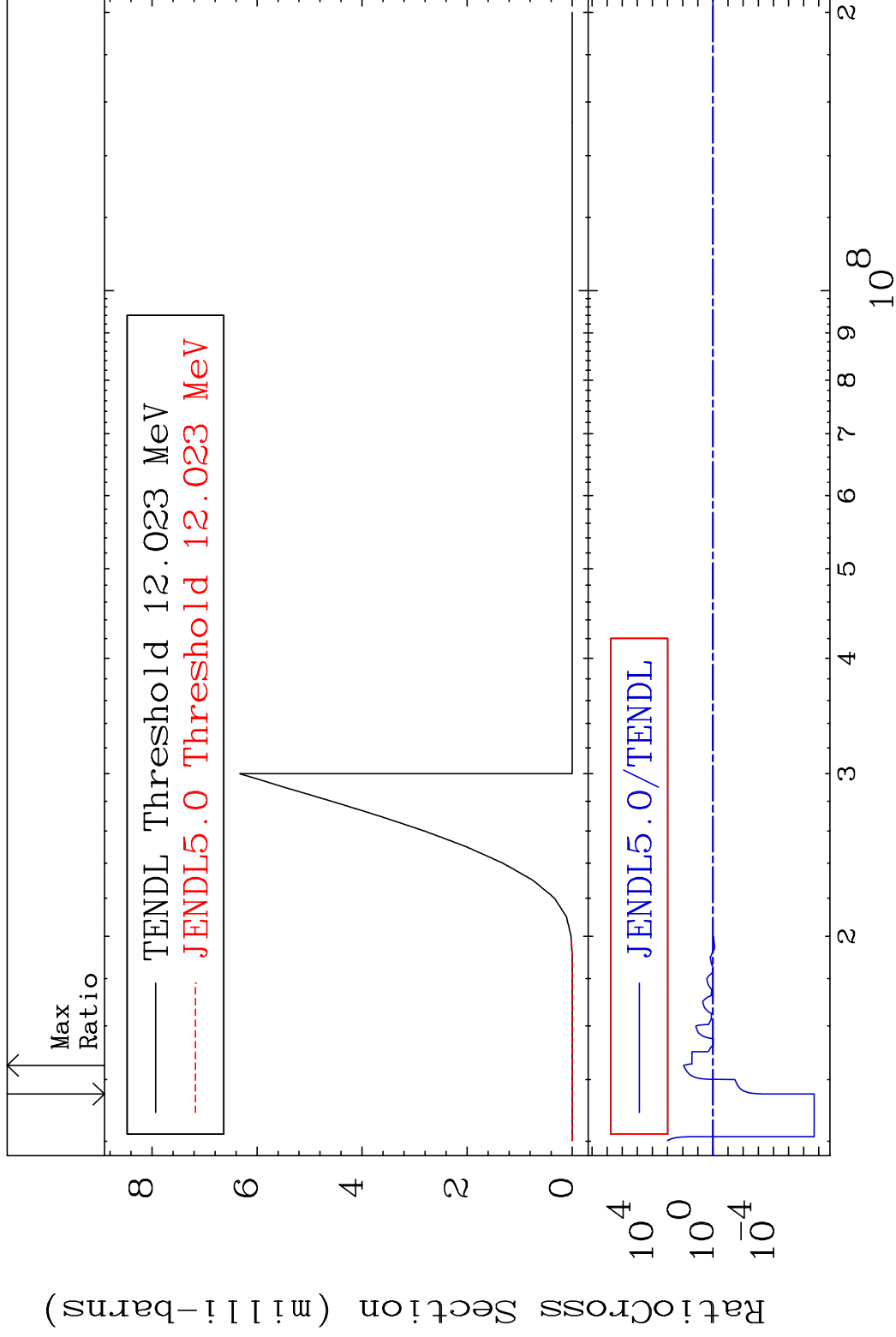


MAT 6525

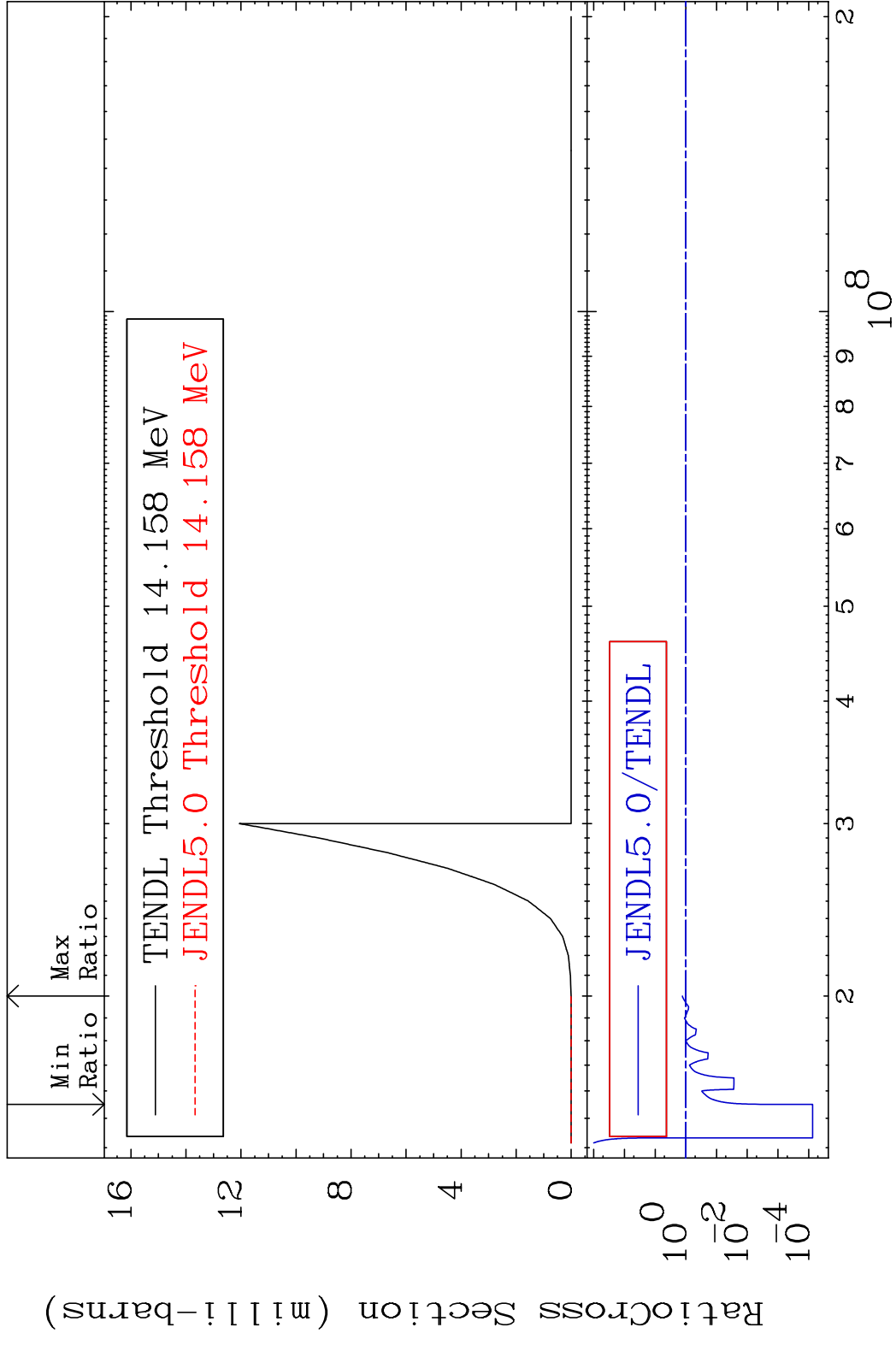
(n, n') t

65-Tb-159

Cross Section -100.0 To 8532. %

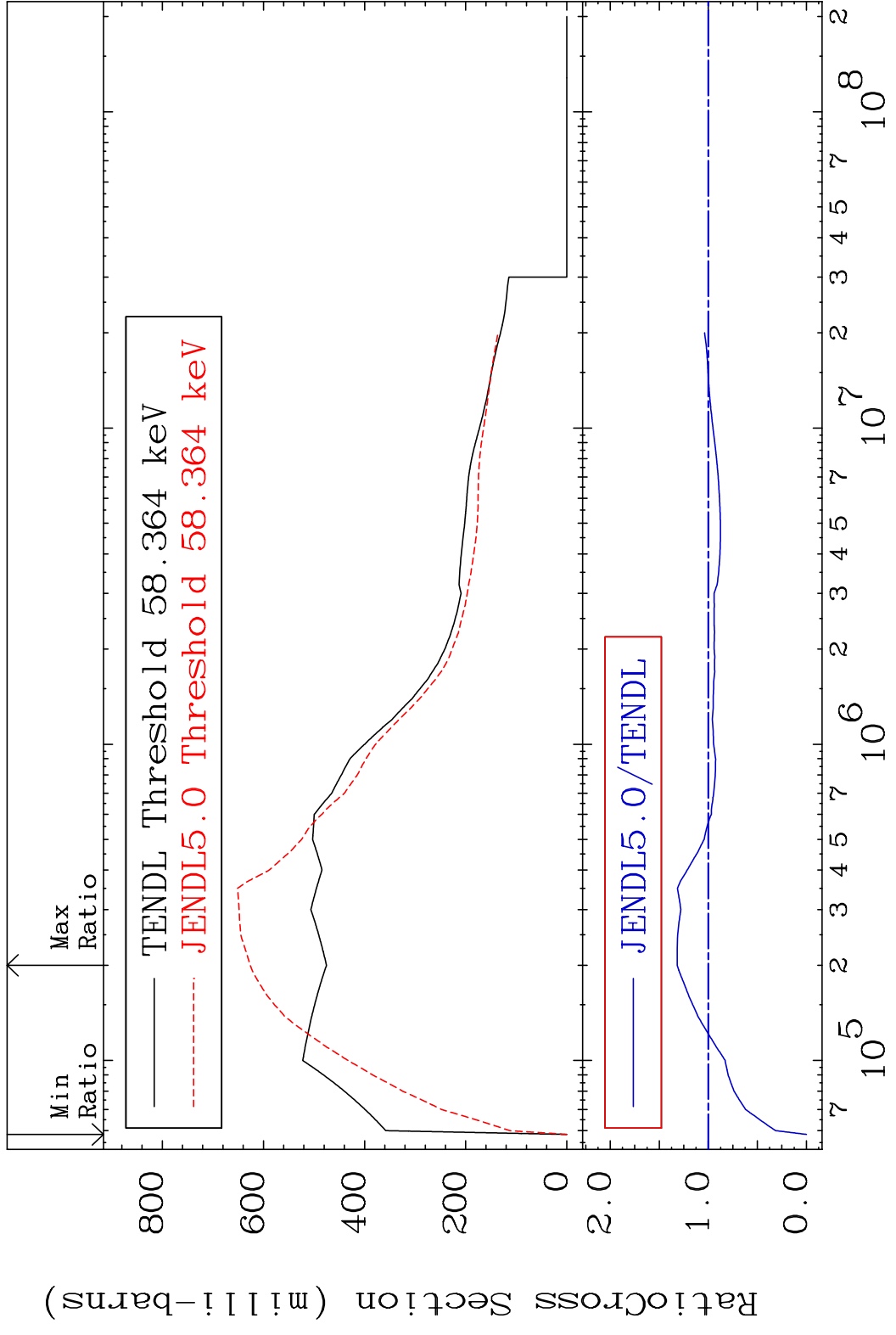


MAT 6525 (n,2n) p 65-Tb-159  
 Cross Section -99.99 To 30.08 %

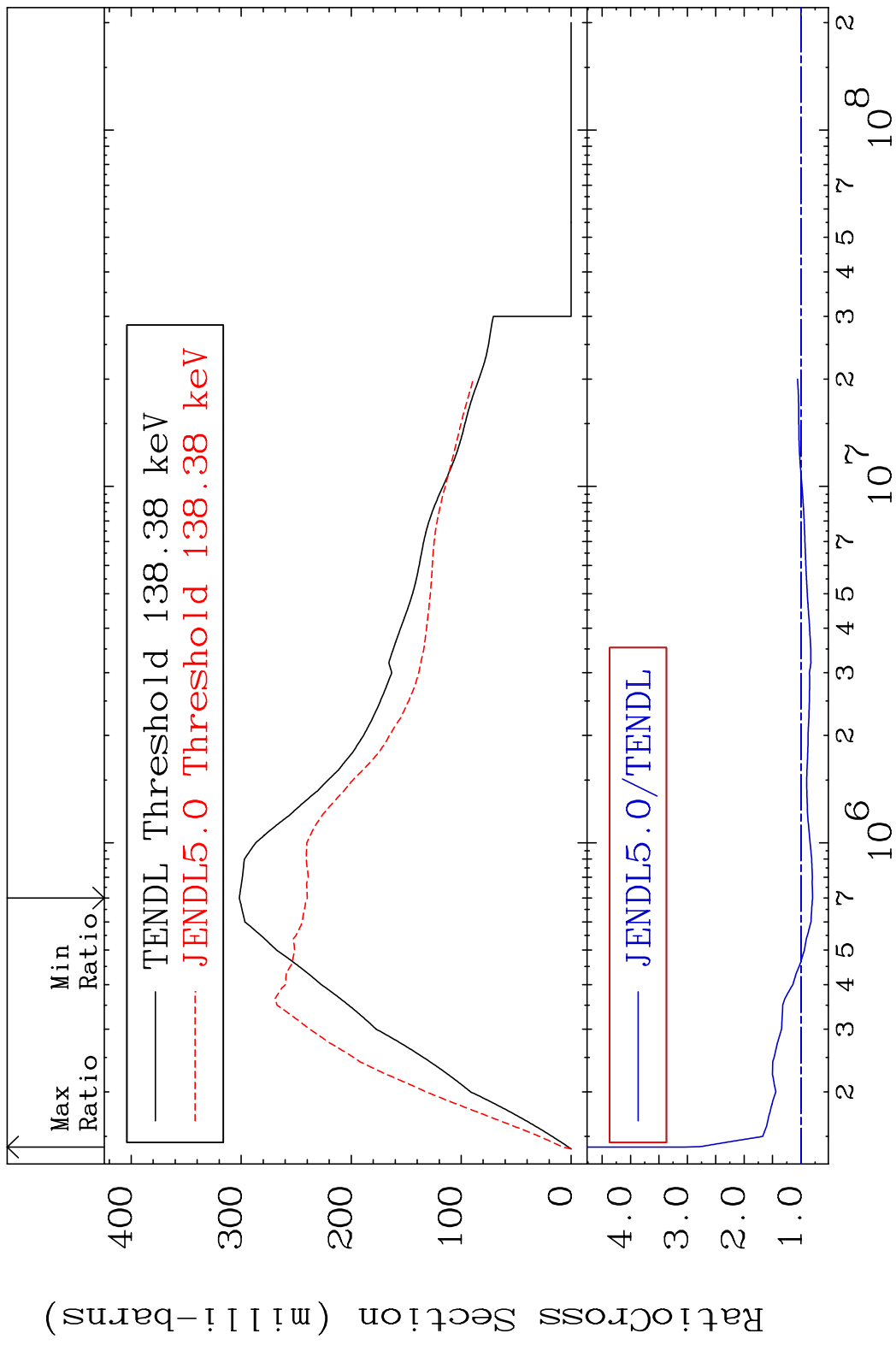


10 Incident Energy (eV) 65-Tb-159

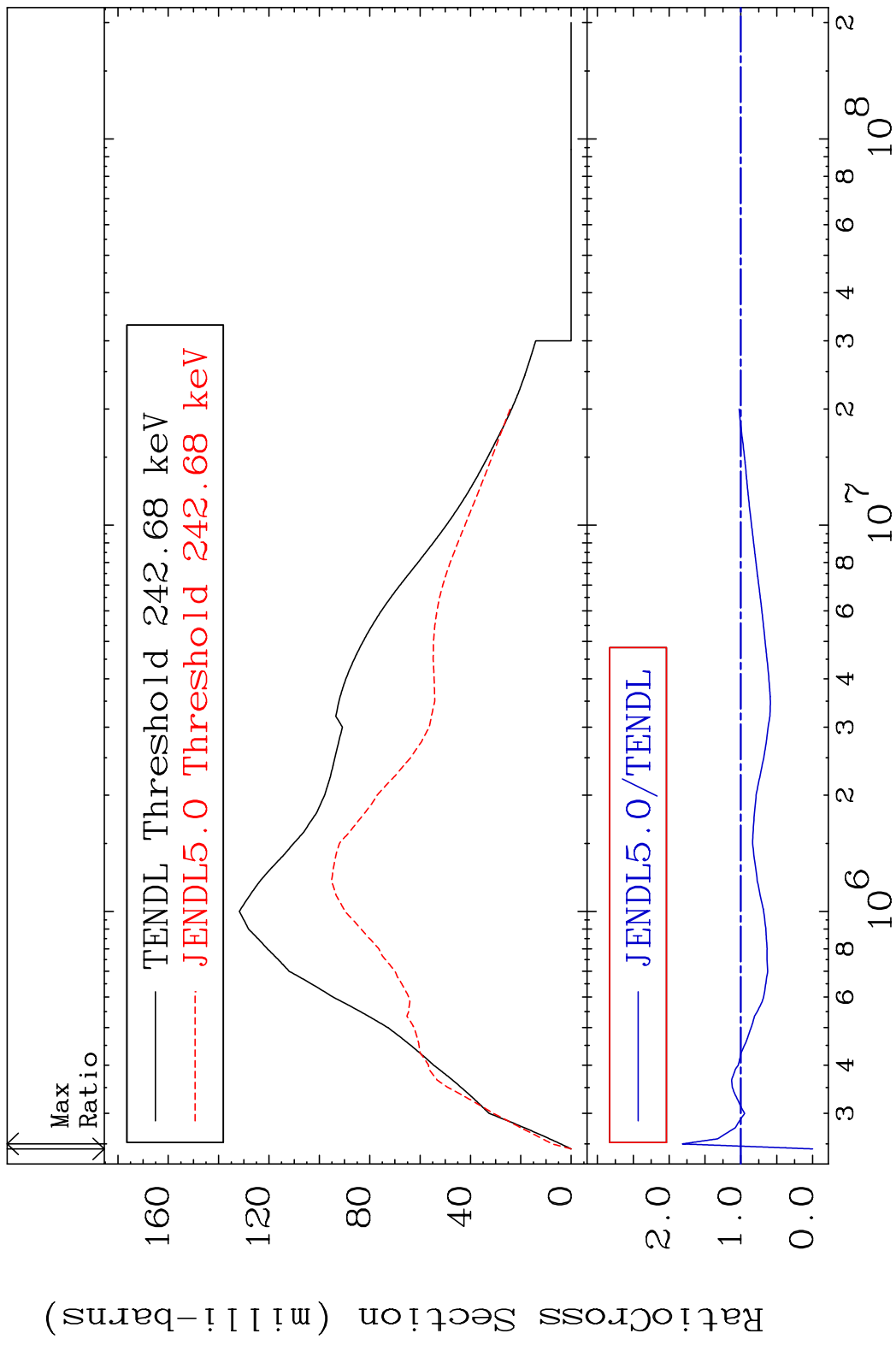
MAT 6525 MT= 51 (n, n') Level 65-Tb-159  
 Cross Section -100.0 To 31.75 %



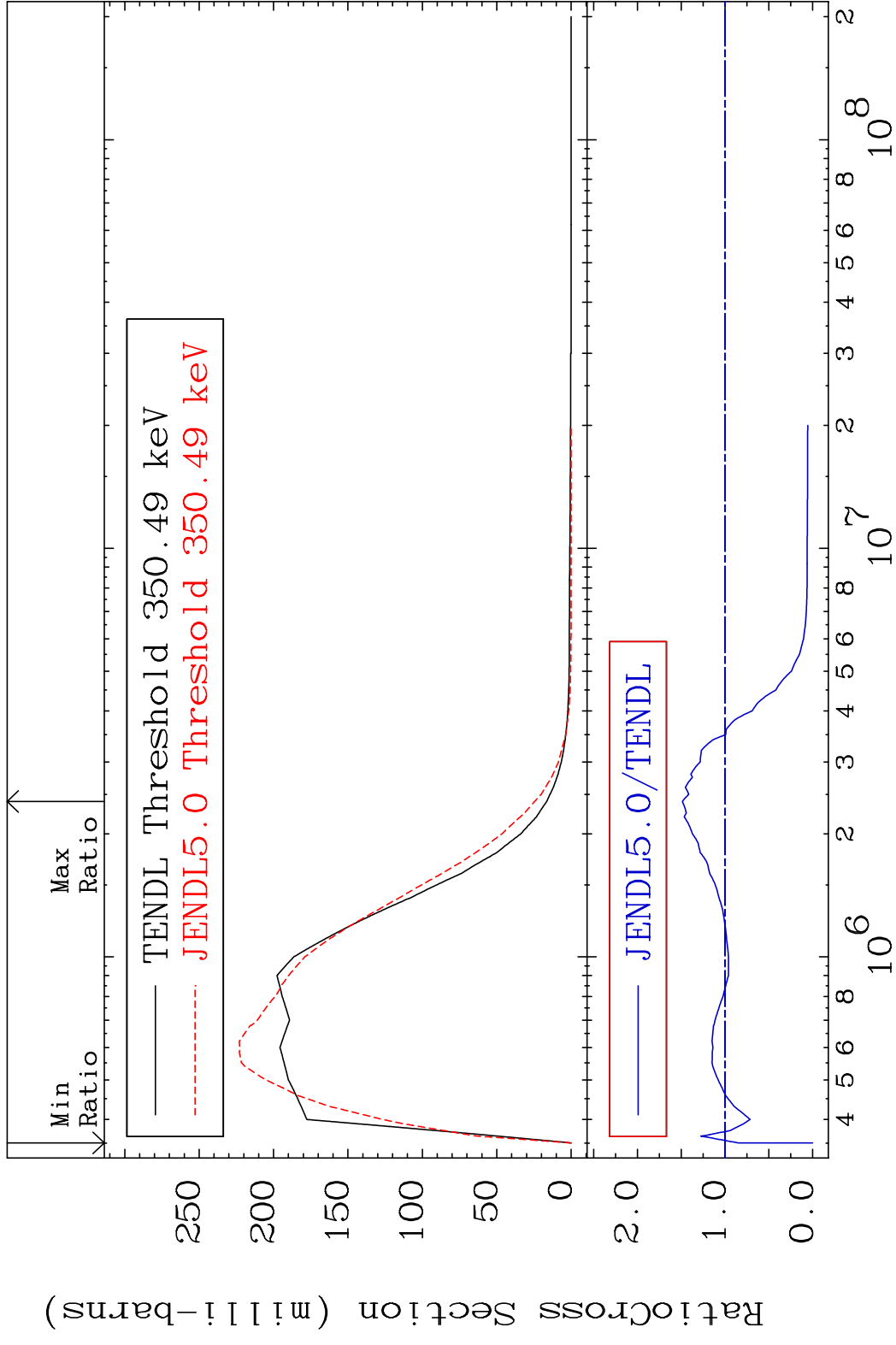
MAT 6525 MT= 52 (n,n') Level 65-Tb-159  
 Cross Section -20.47 To 208.8 %



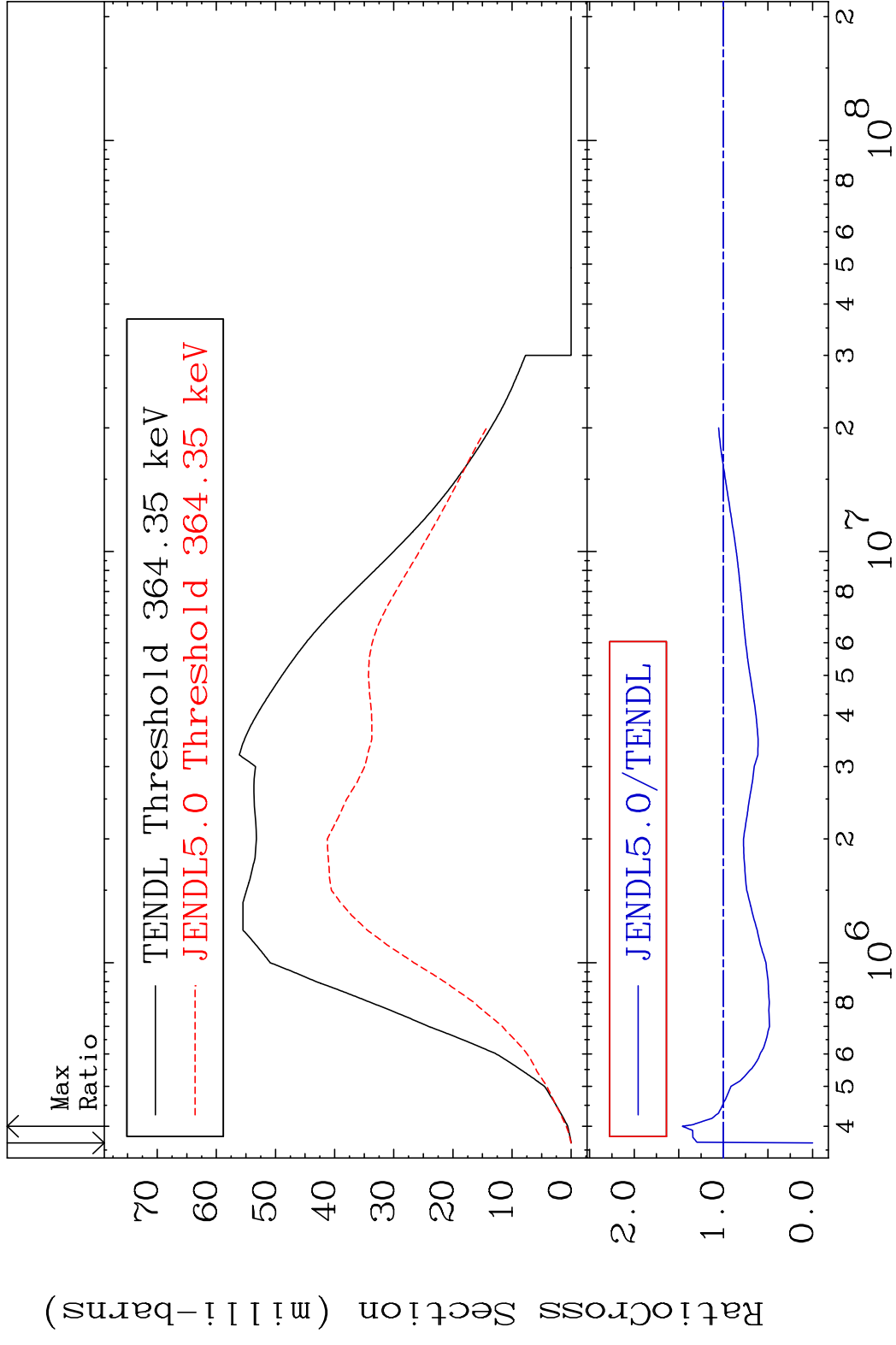
MAT 6525 MT= 53 (n, n') Level 65-Tb-159  
 Cross Section -100.0 To 81.54 %



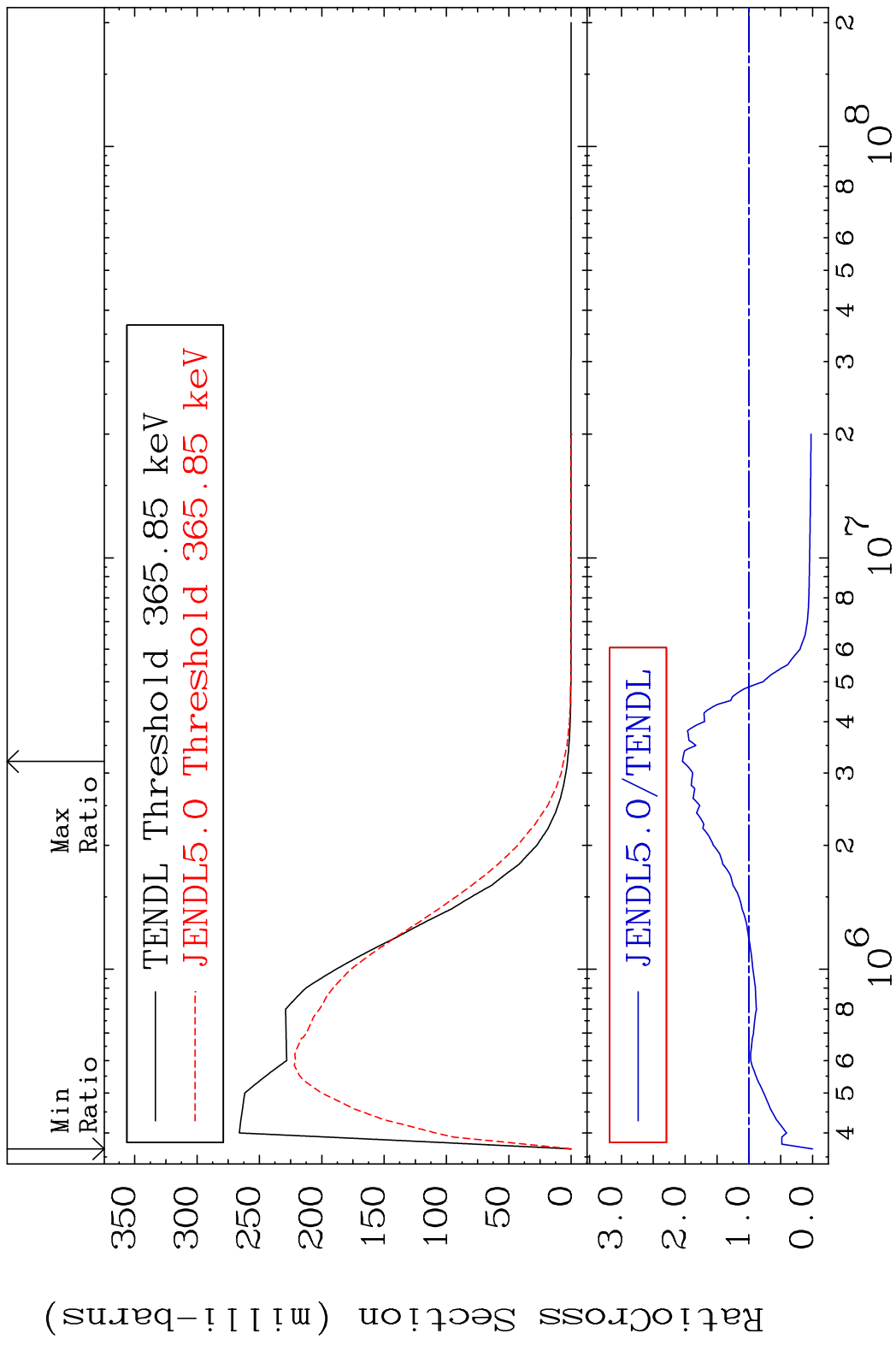
MAT 6525 MT= 54 (n,n') Level 65-Tb-159  
 Cross Section -100.0 To 48.77 %



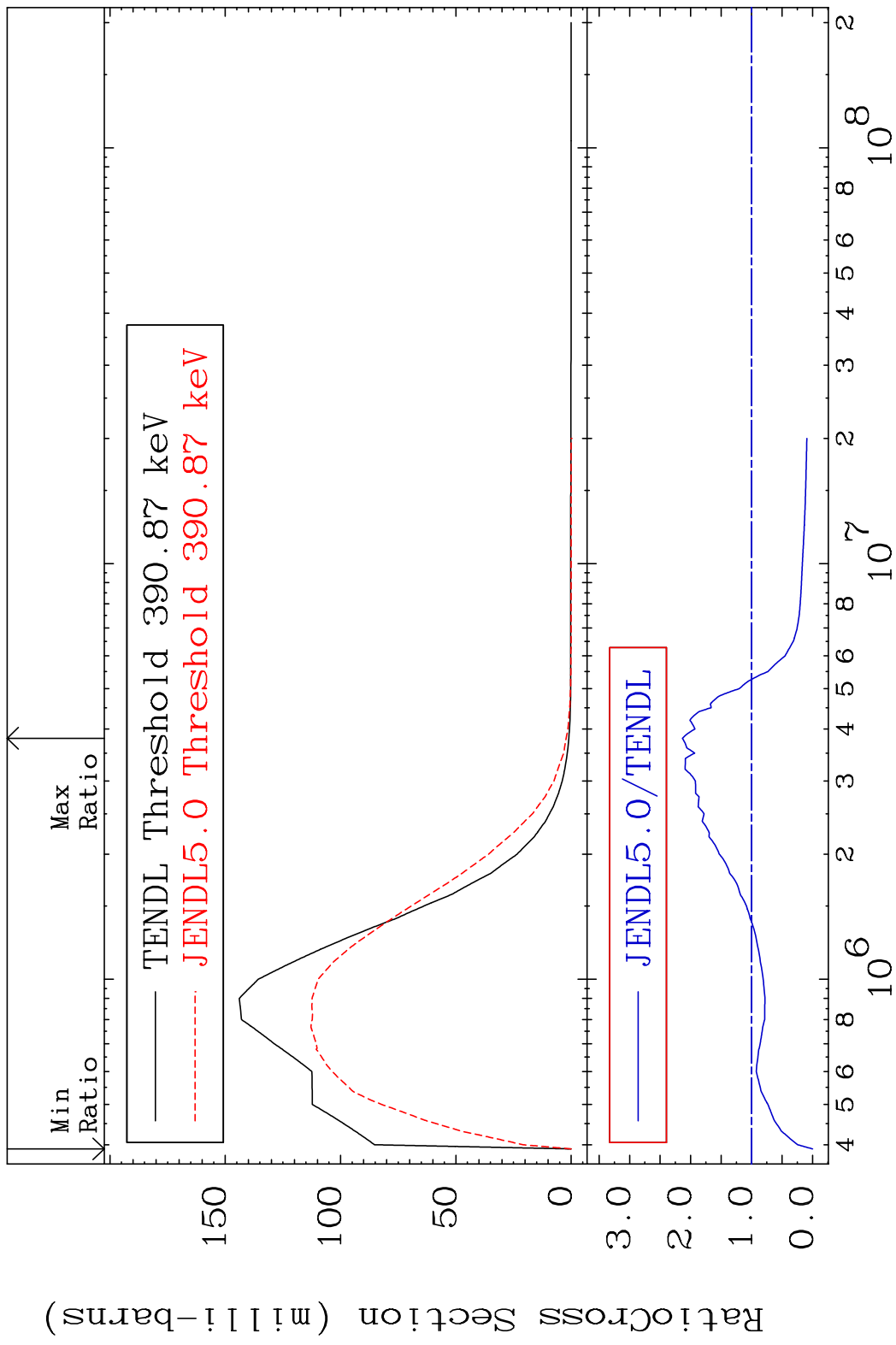
MAT 6525 MT= 55 (n,n') Level 65-Tb-159  
 Cross Section -100.0 To 45.98 %



MAT 6525 MT= 56 (n,n') Level 65-Tb-159  
 Cross Section -100.0 To 104.4 %

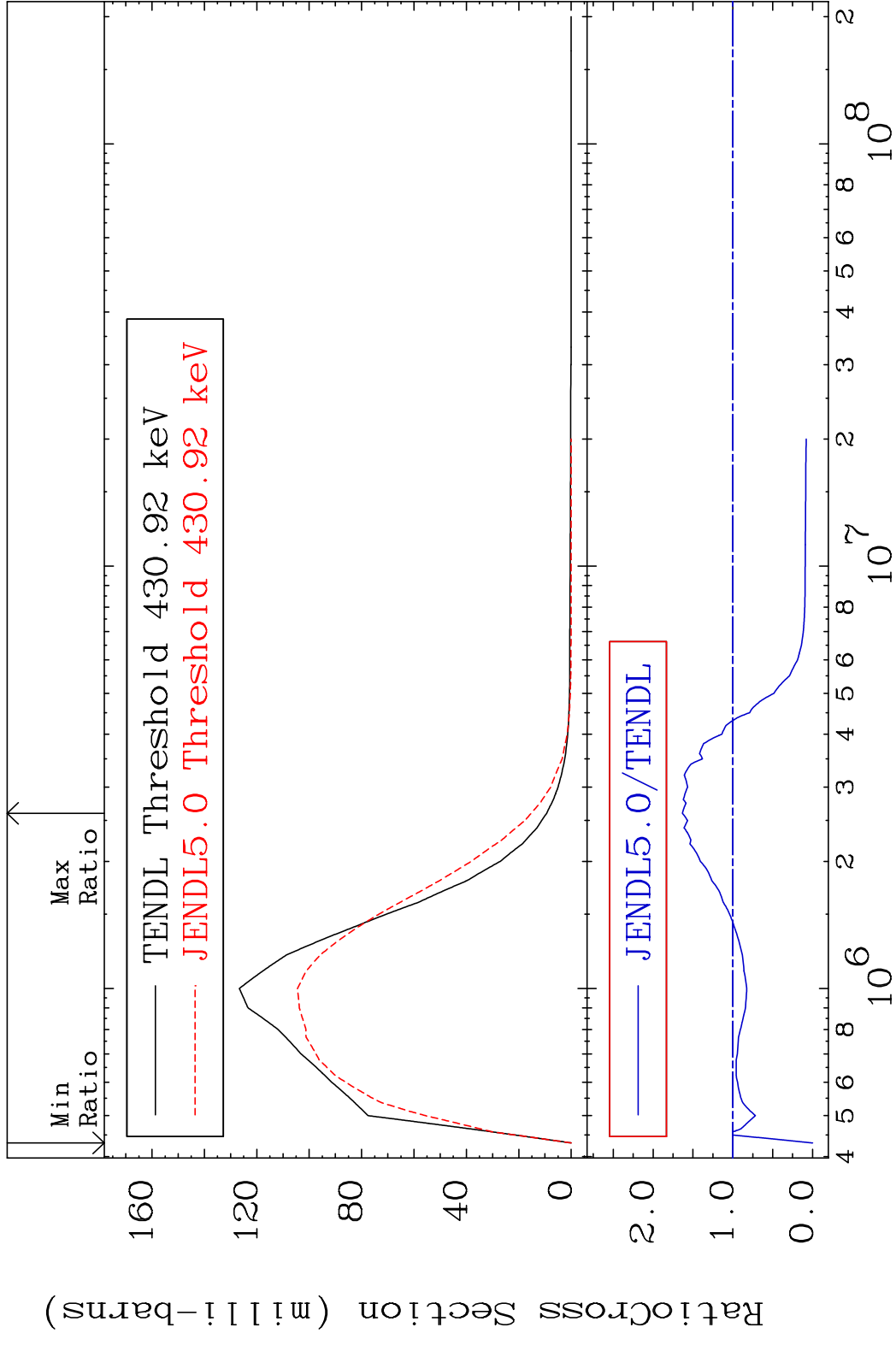


MAT 6525 MT= 57 (n,n') Level 65-Tb-159  
 Cross Section -100.0 To 113.5 %

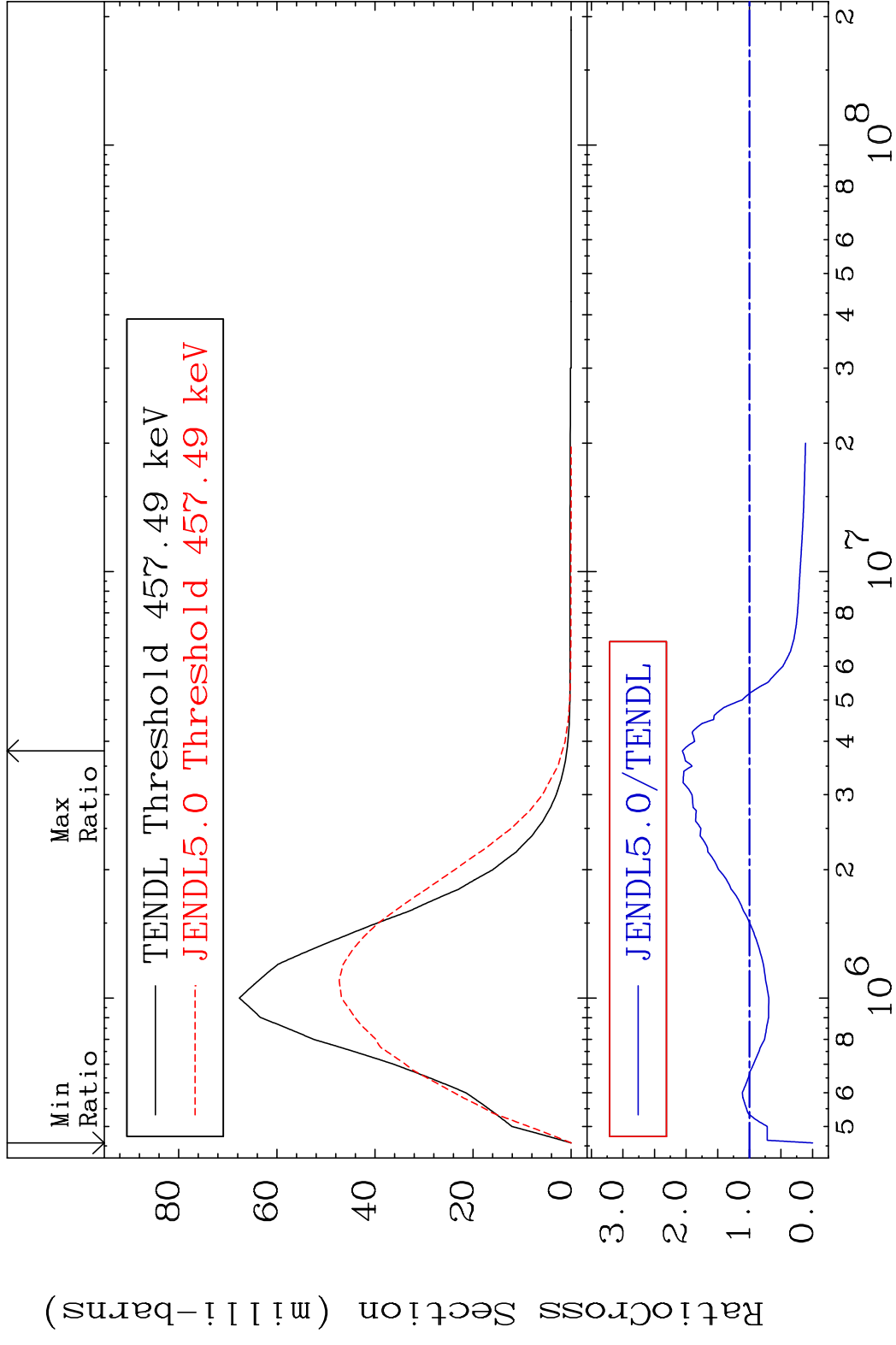


17 Incident Energy (eV) 65-Tb-159

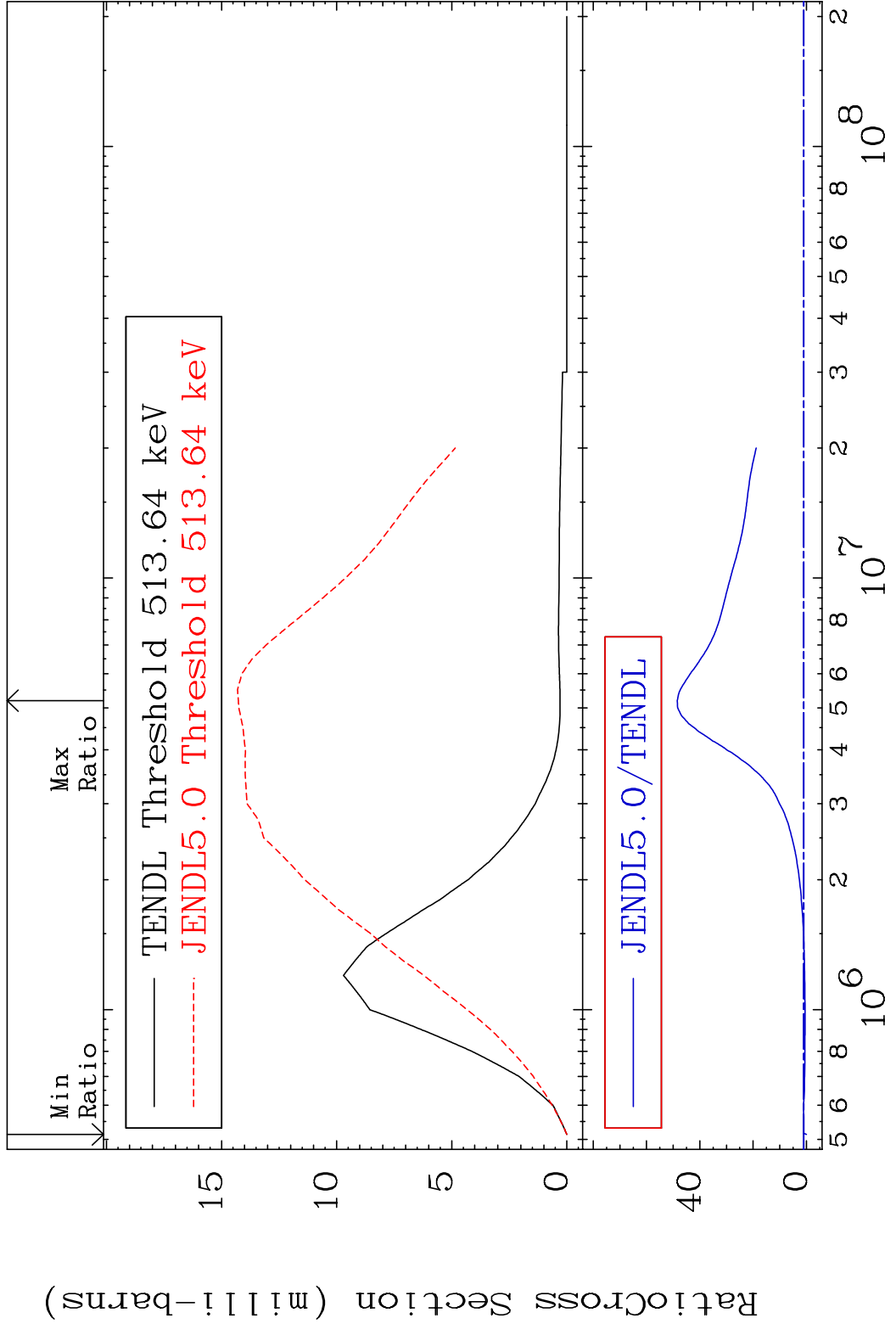
MAT 6525 MT= 58 (n, n') Level 65-Tb-159  
 Cross Section -100.0 To 63.29 %



MAT 6525 MT= 59 (n, n') Level 65-Tb-159  
 Cross Section -100.0 To 106.0 %

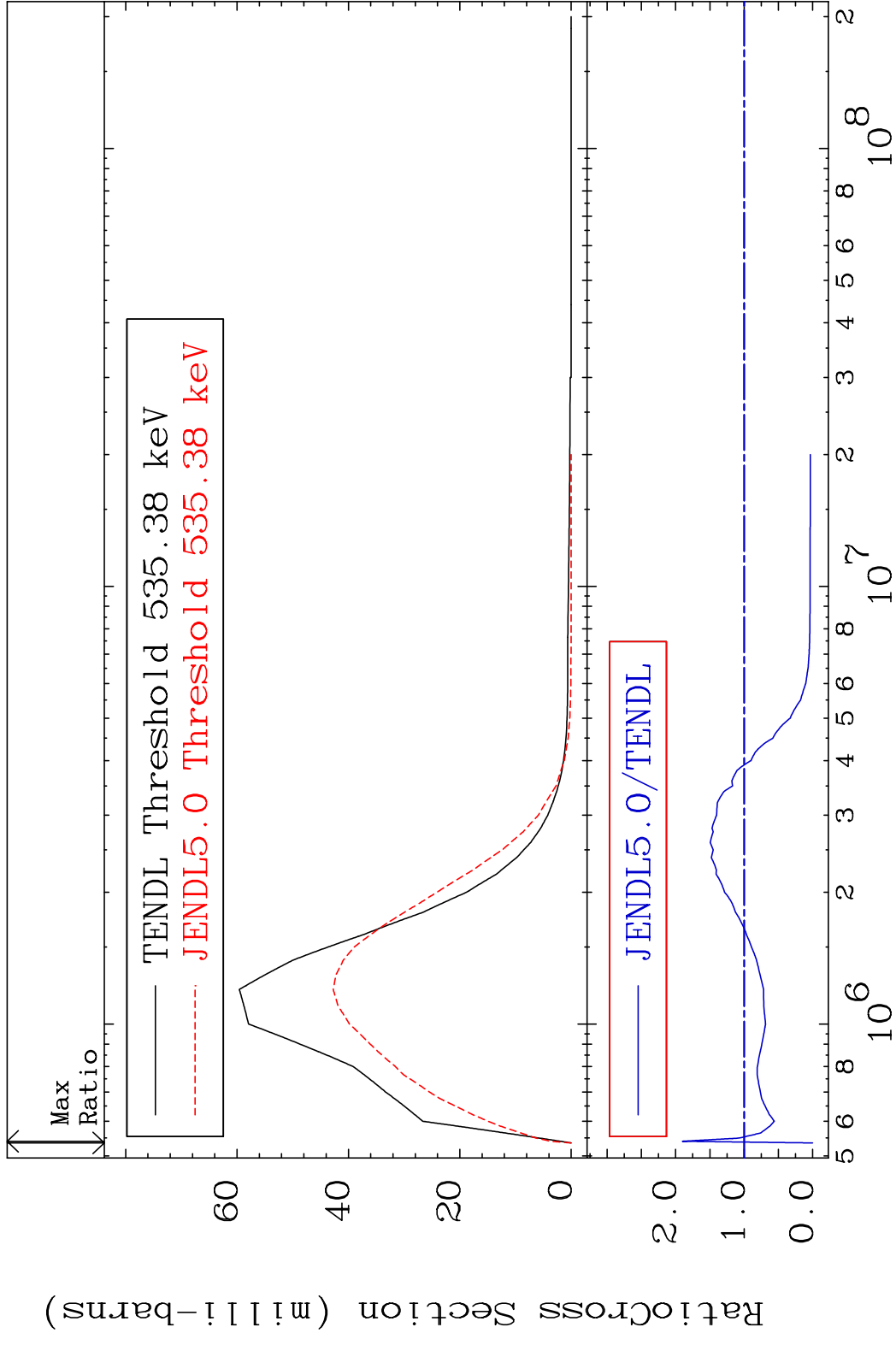


MAT 6525 MT= 60 (n, n') Level 65-Tb-159  
 Cross Section -100.0 To 4749. %

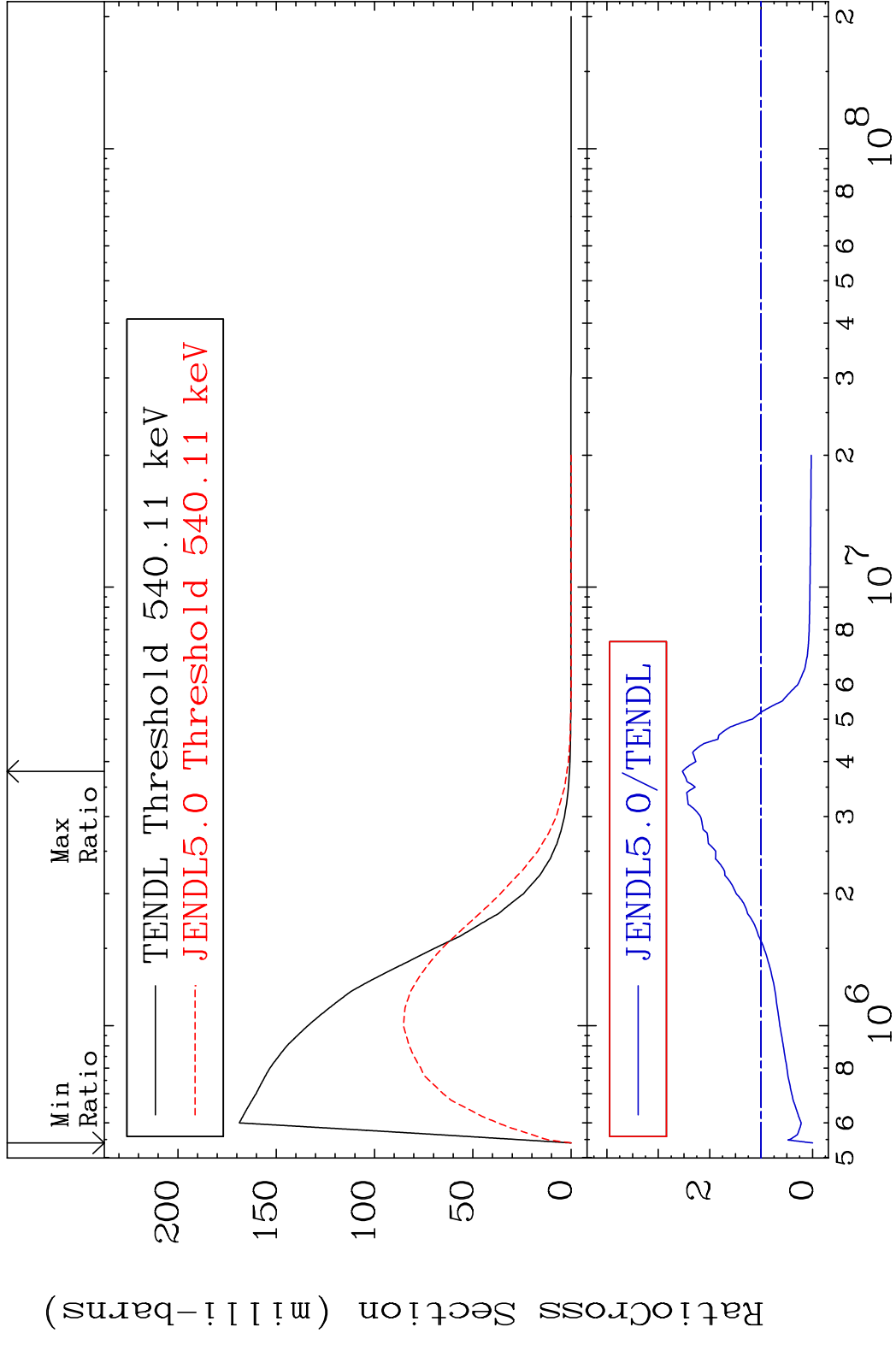


20 Incident Energy (eV) 65-Tb-159

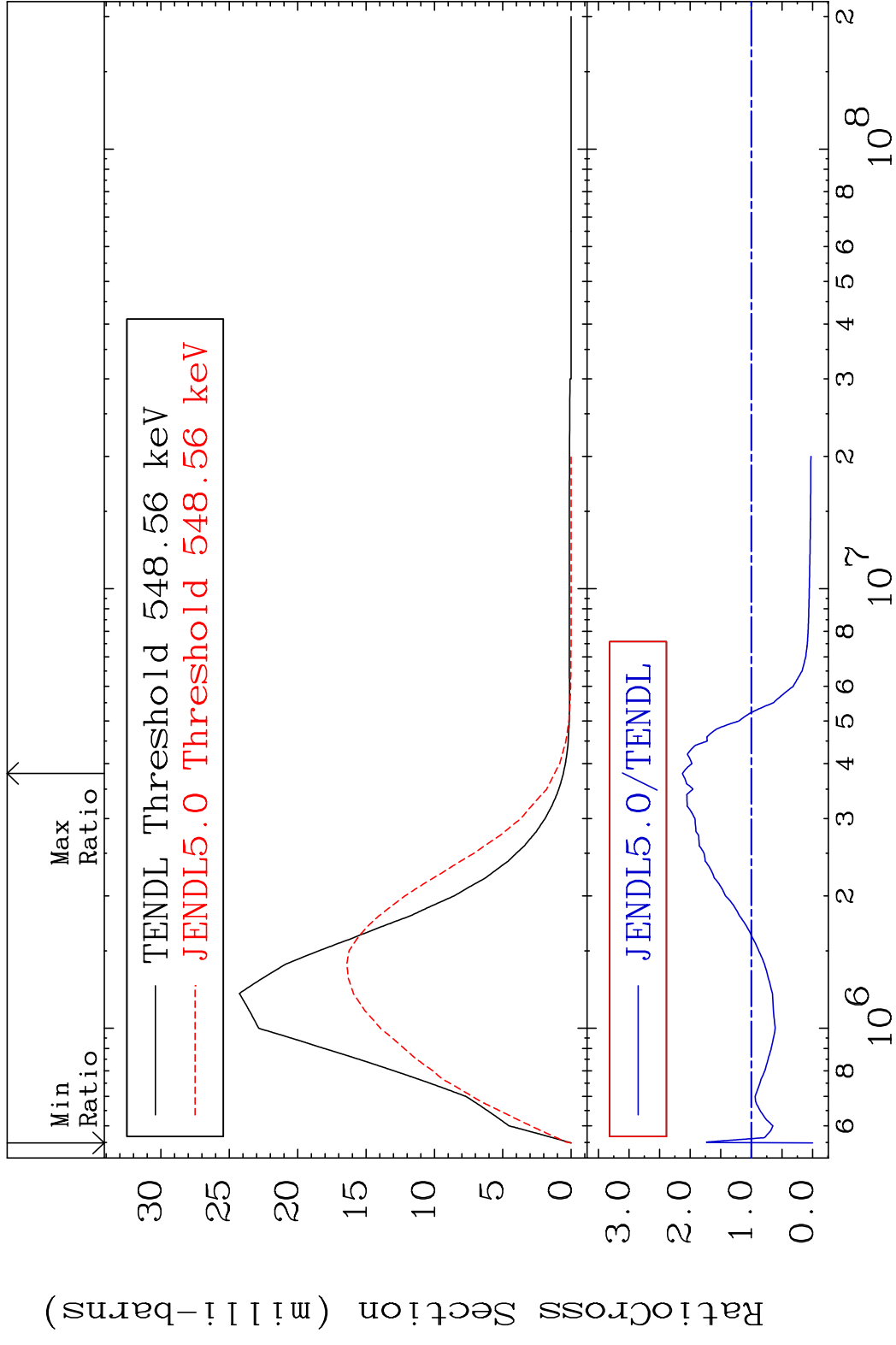
MAT 6525 MT= 61 (n, n') Level 65-Tb-159  
 Cross Section -100.0 To 90.20 %



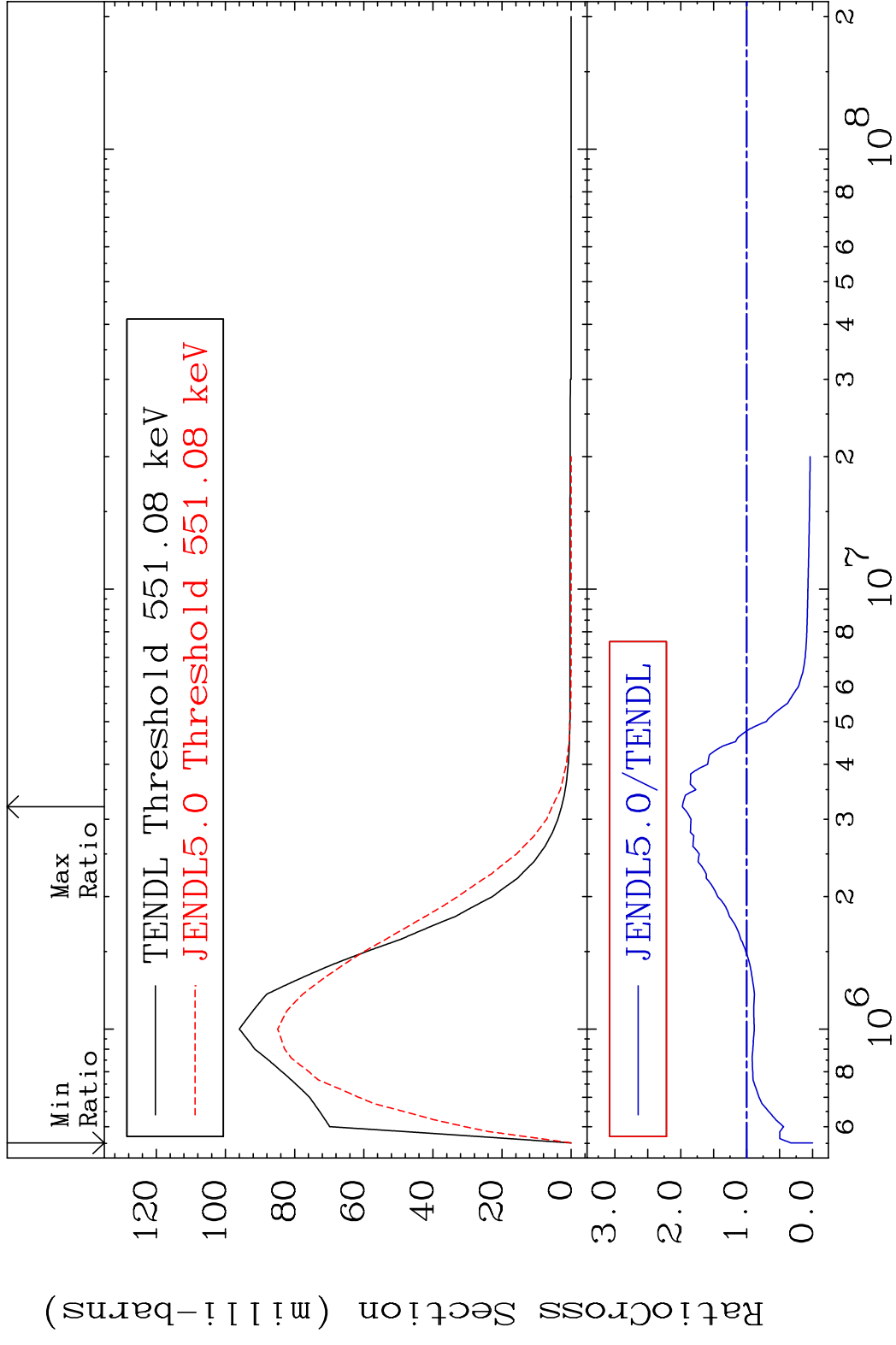
MAT 6525 MT= 62 (n, n') Level 65-Tb-159  
 Cross Section -100.0 To 153.2 %



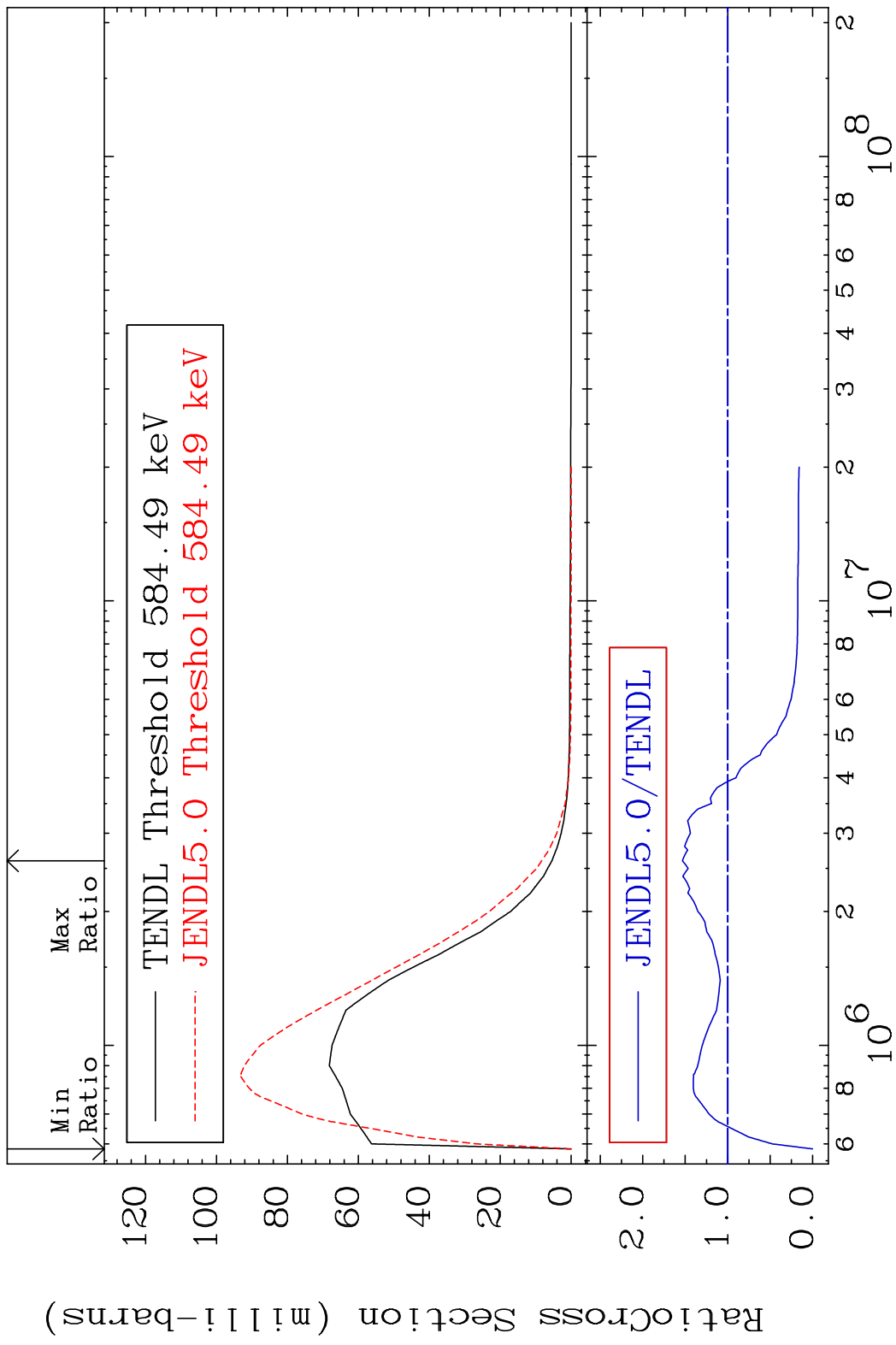
MAT 6525 MT= 63 (n, n') Level 65-Tb-159  
 Cross Section -100.0 To 112.8 %



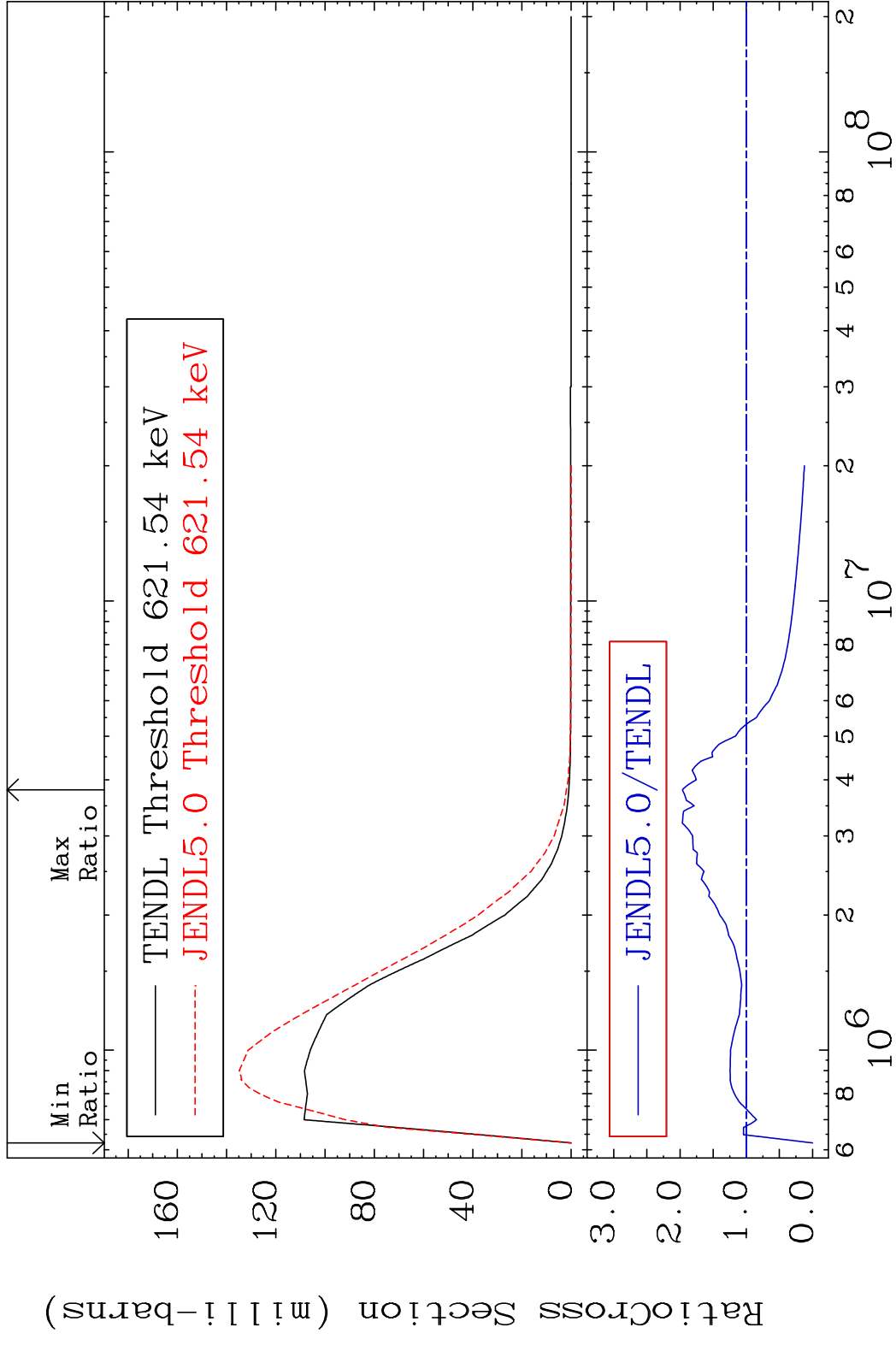
MAT 6525 MT= 64 (n, n') Level 65-Tb-159  
 Cross Section -100.0 To 97.52 %



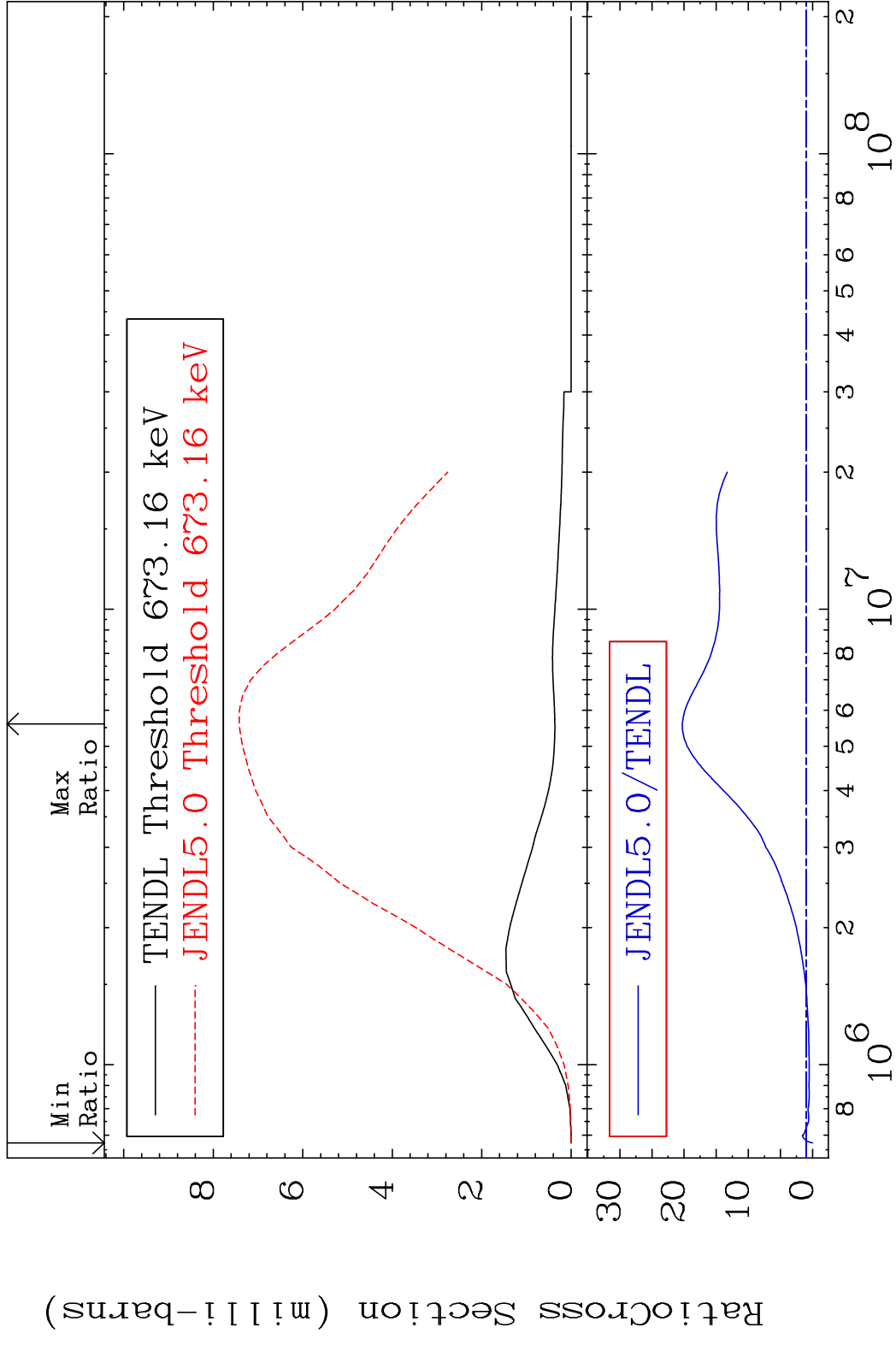
MAT 6525 MT= 65 (n,n') Level 65-Tb-159  
 Cross Section -100.0 To 53.40 %



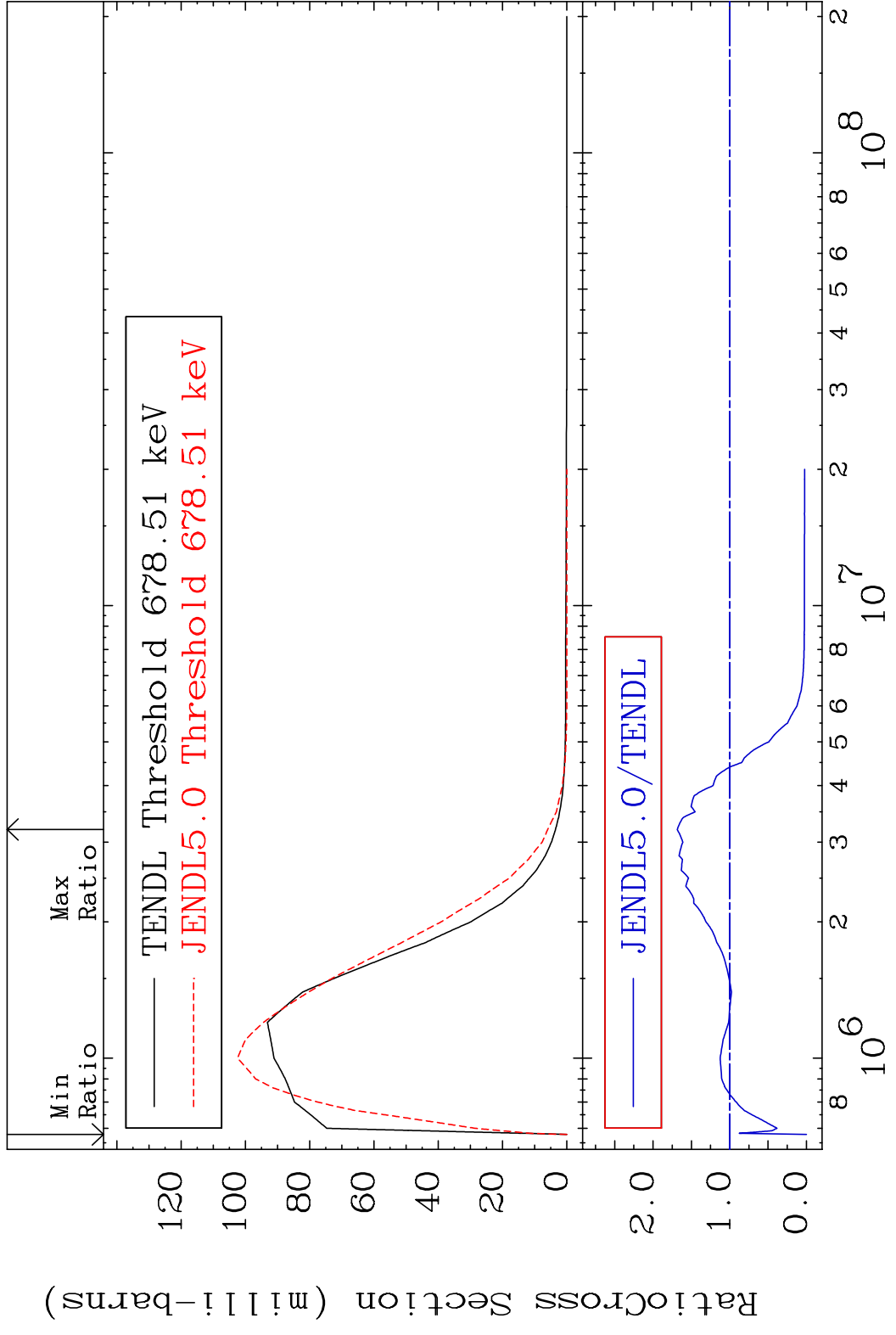
MAT 6525 MT= 66 (n,n') Level 65-Tb-159  
 Cross Section -100.0 To 96.46 %



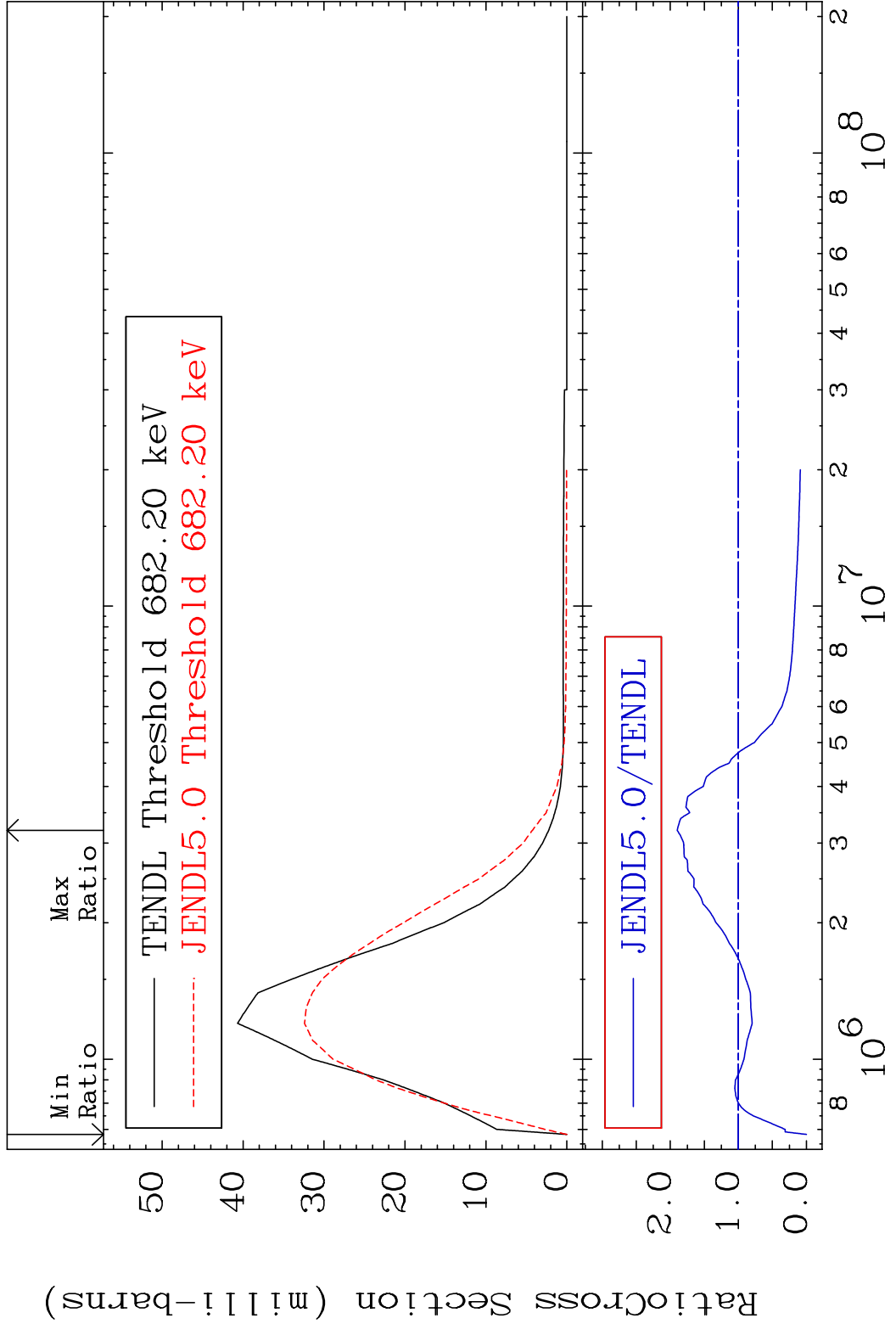
MAT 6525 MT= 67 (n,n') Level 65-Tb-159  
 Cross Section -100.0 To 1927. %



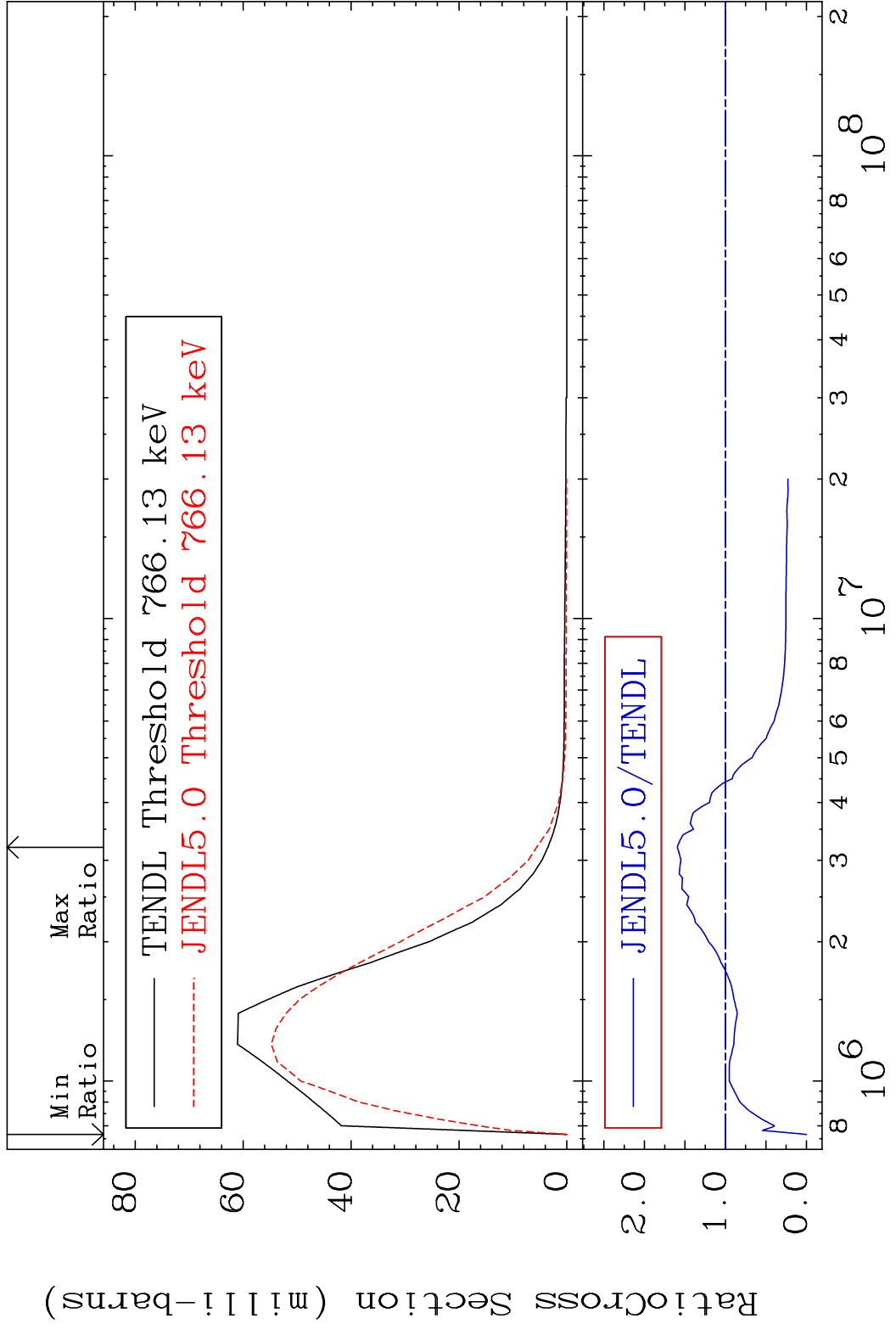
MAT 6525 MT= 68 (n,n') Level 65-Tb-159  
 Cross Section -100.0 To 68.49 %



MAT 6525 MT= 69 (n,n') Level 65-Tb-159  
 Cross Section -100.0 To 89.89 %

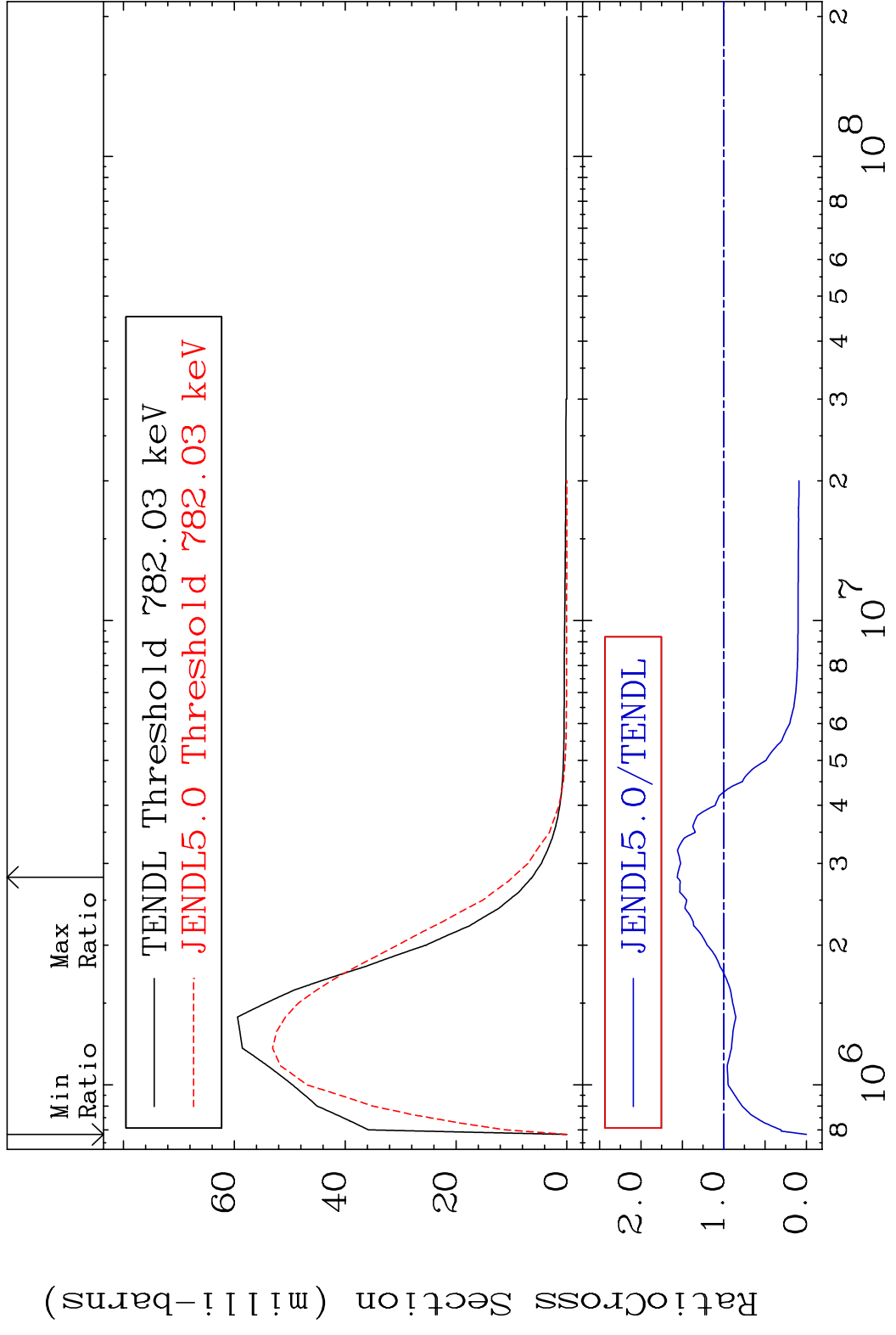


MAT 6525 MT= 70 (n,n') Level 65-Tb-159  
 Cross Section -100.0 To 59.60 %

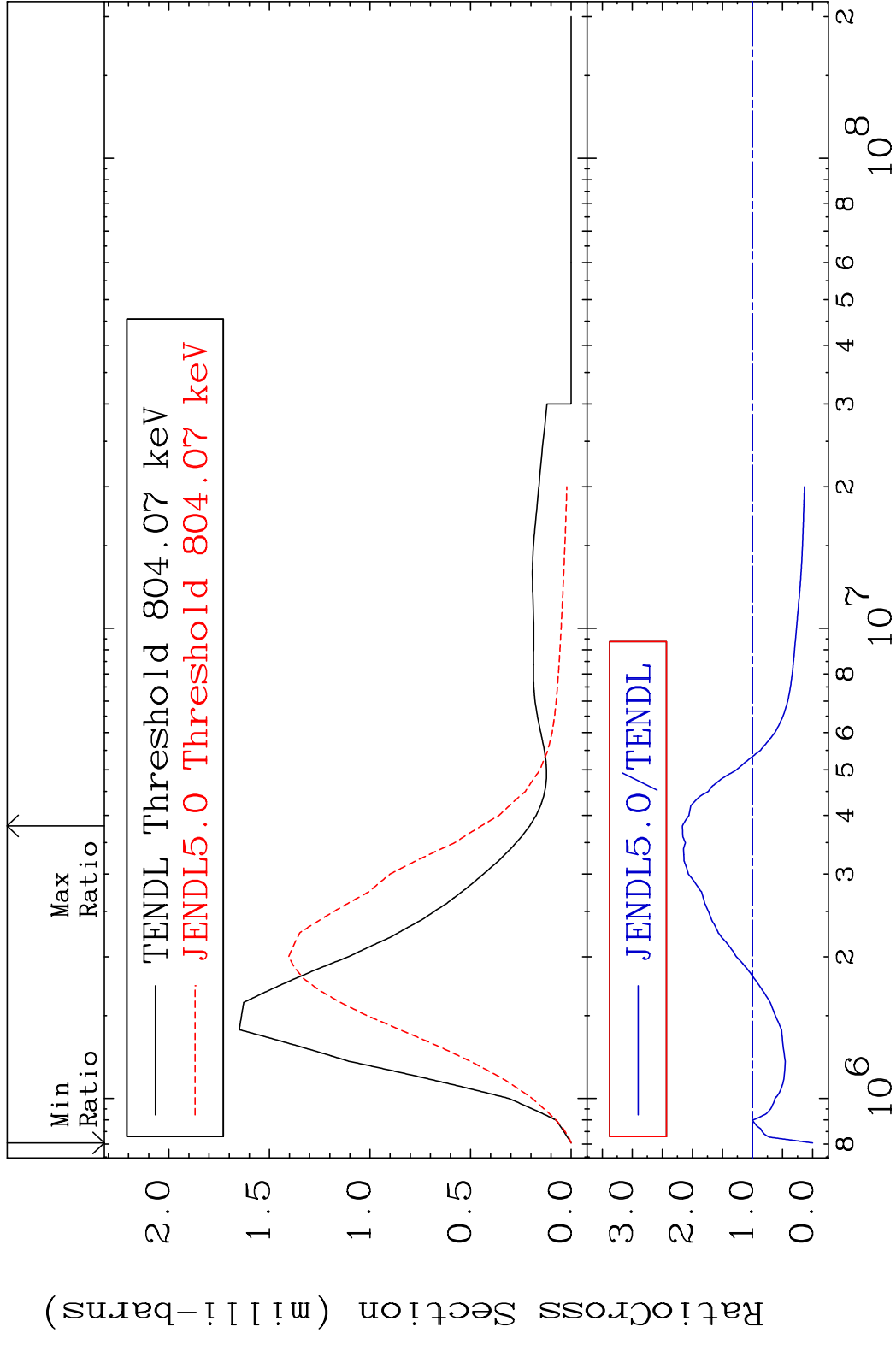


30 Incident Energy (eV) 65-Tb-159

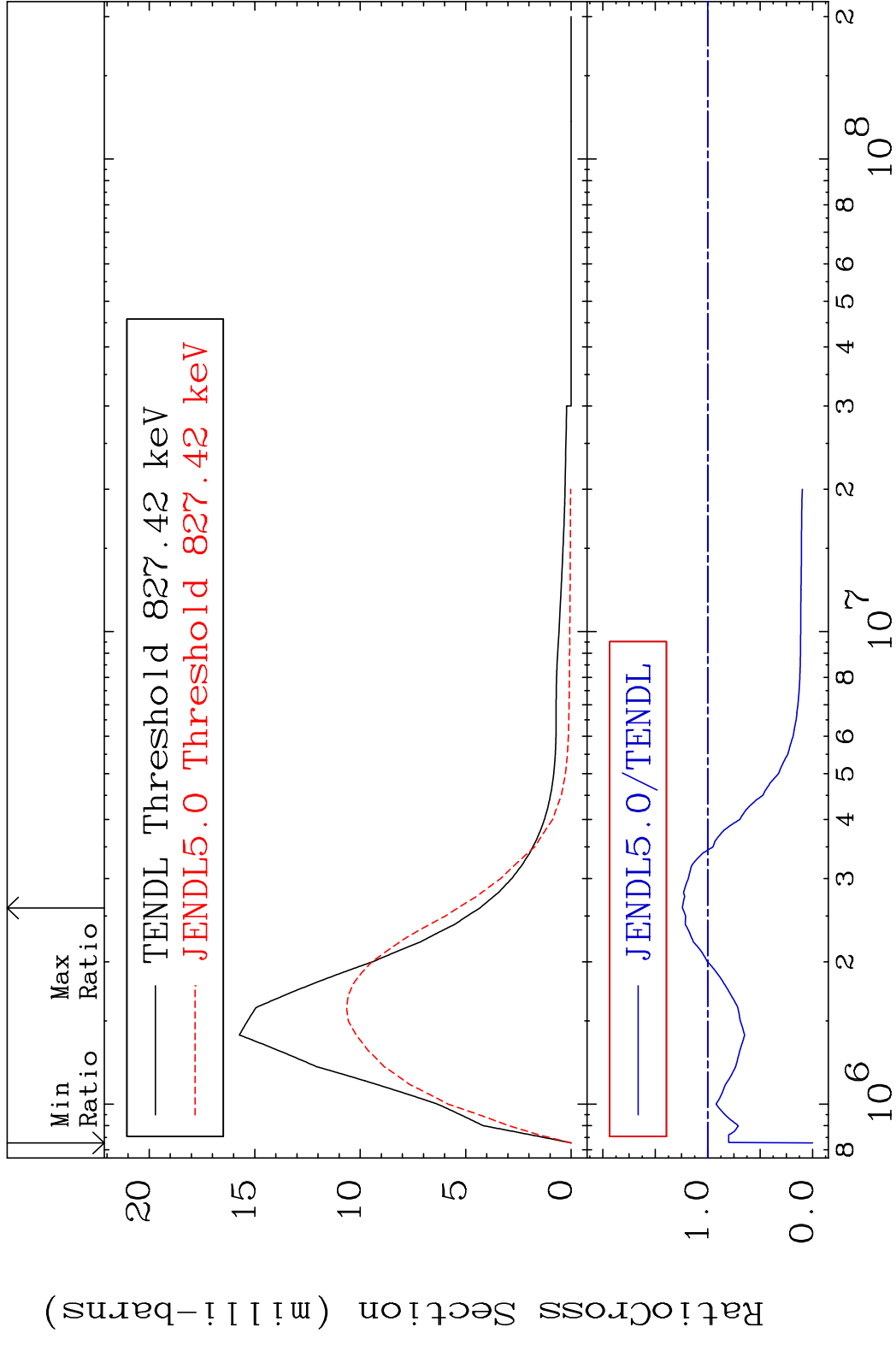
MAT 6525 MT= 71 (n,n') Level 65-Tb-159  
 Cross Section -100.0 To 56.25 %



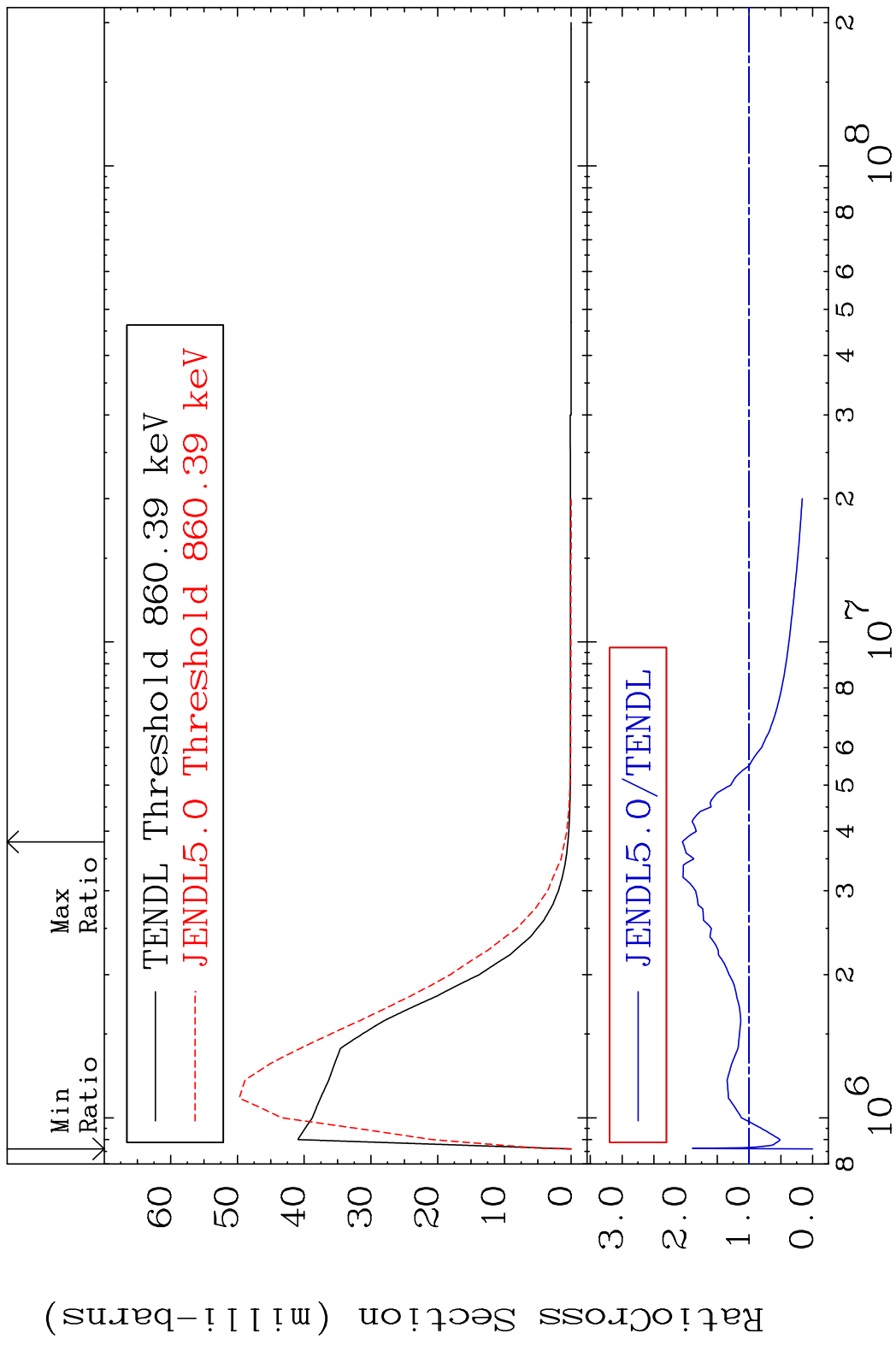
MAT 6525 MT= 72 (n, n') Level 65-Tb-159  
 Cross Section -100.0 To 116.7 %



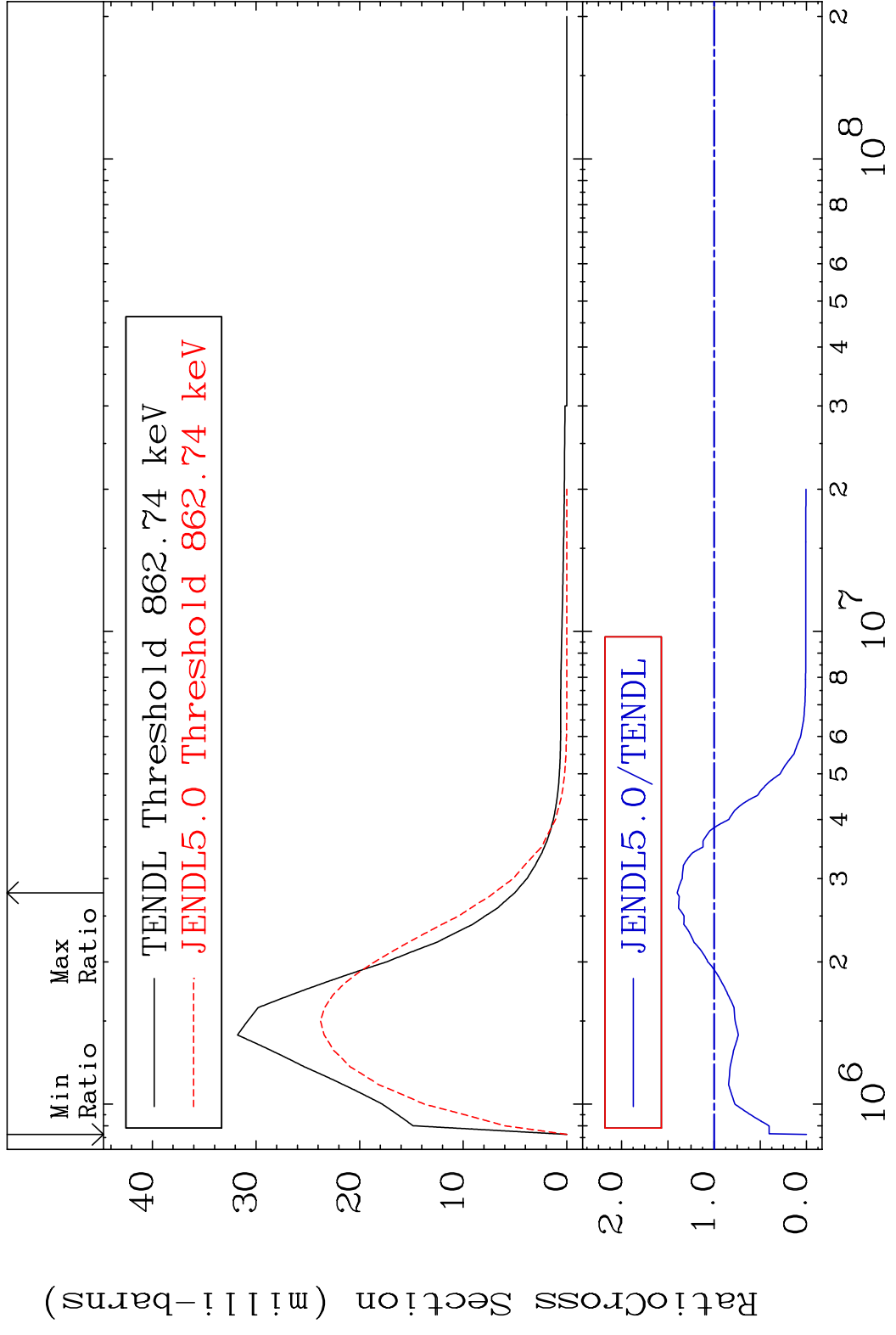
MAT 6525 MT= 73 (n,n') Level 65-Tb-159  
 Cross Section -100.0 To 24.20 %



MAT 6525 MT= 74 (n,n') Level 65-Tb-159  
 Cross Section -100.0 To 105.1 %

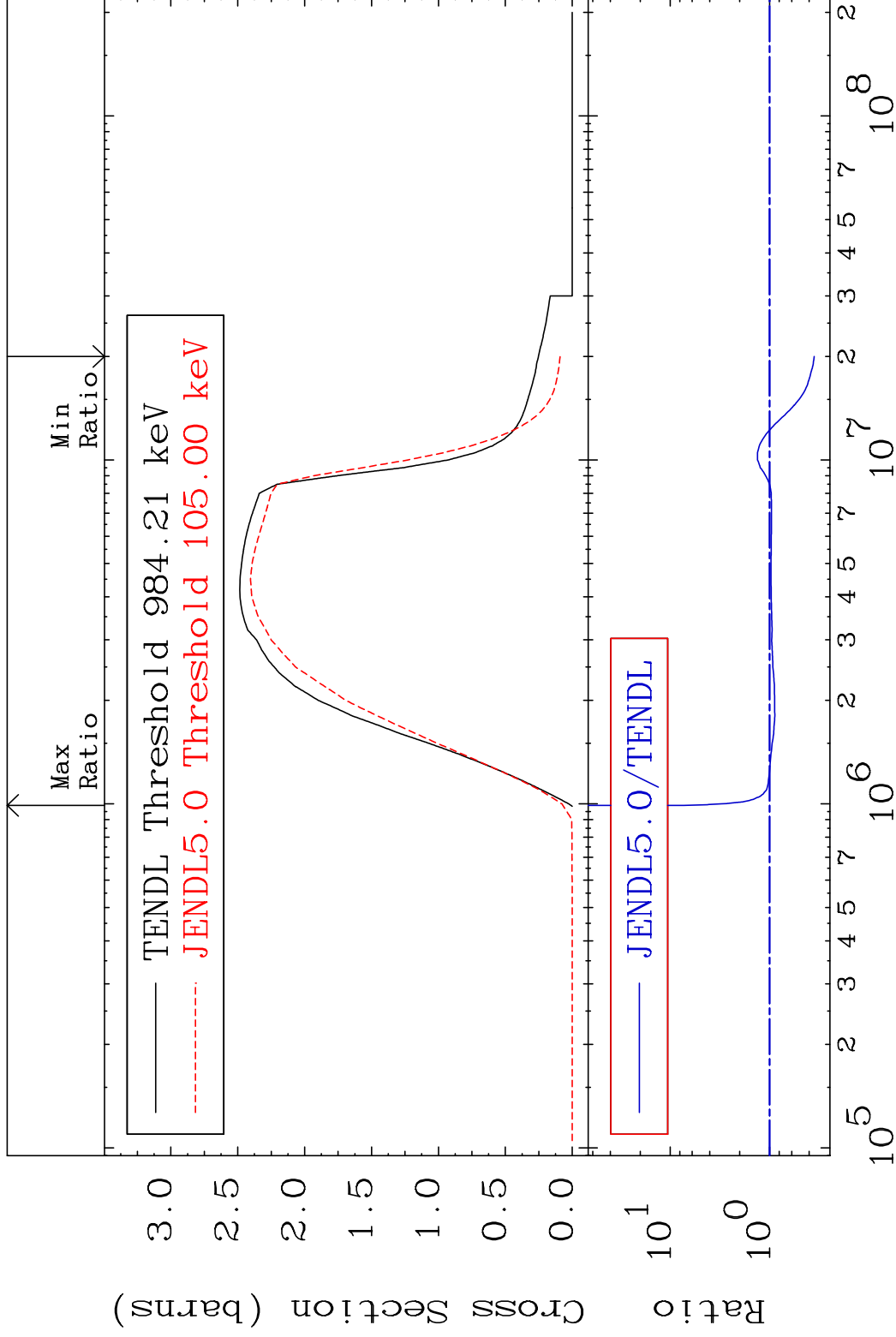


MAT 6525 MT= 75 (n,n') Level 65-Tb-159  
 Cross Section -100.0 To 39.88 %



MAT 6525

(n, n') Continuum 65-Tb-159  
Cross Section -64.31 To 631.4 %



36

Incident Energy (eV)

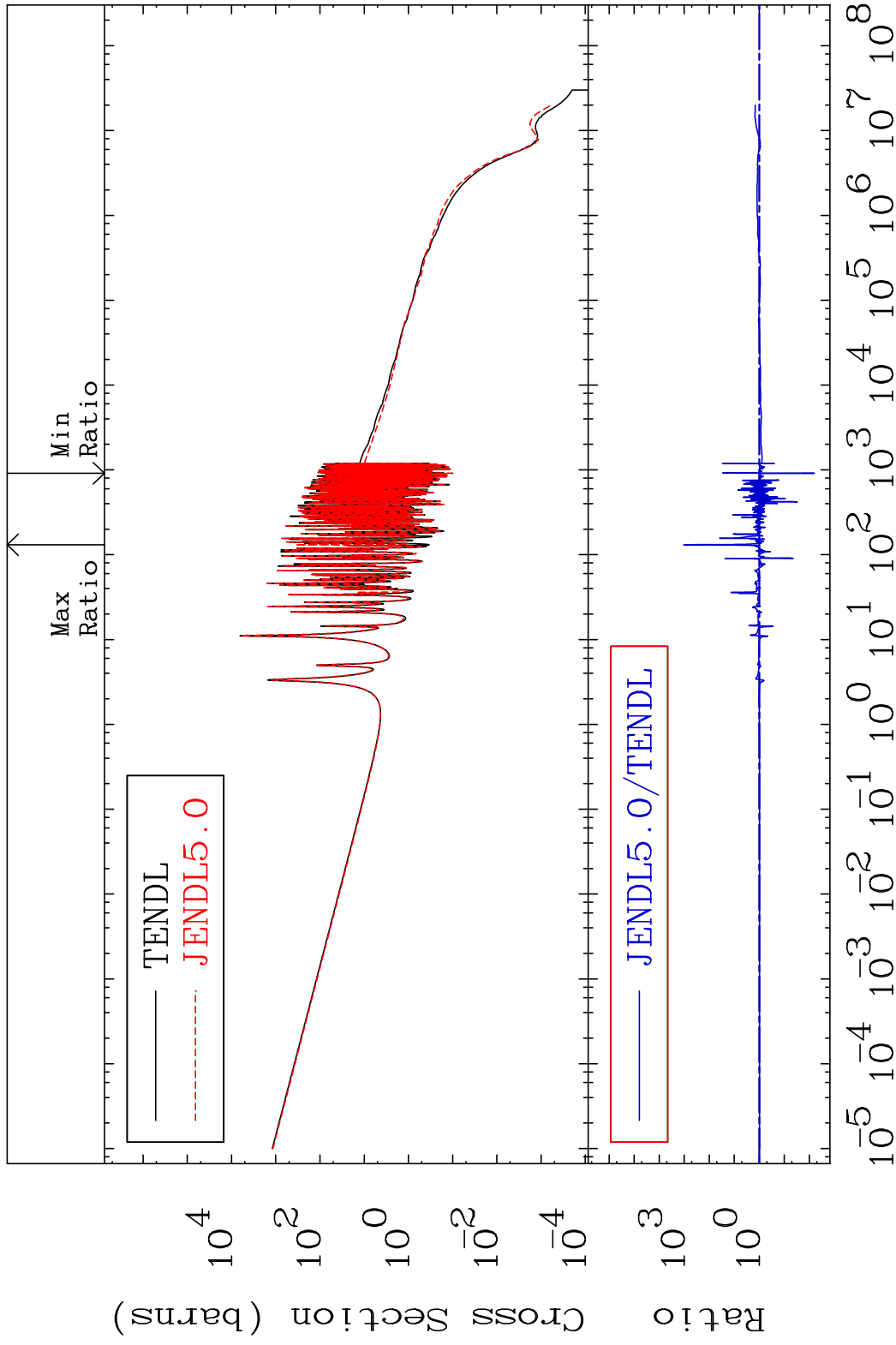
65-Tb-159

MAT 6525

(n,  $\gamma$ )

65-Tb-159

Cross Section -99.36 To 9999. %



37

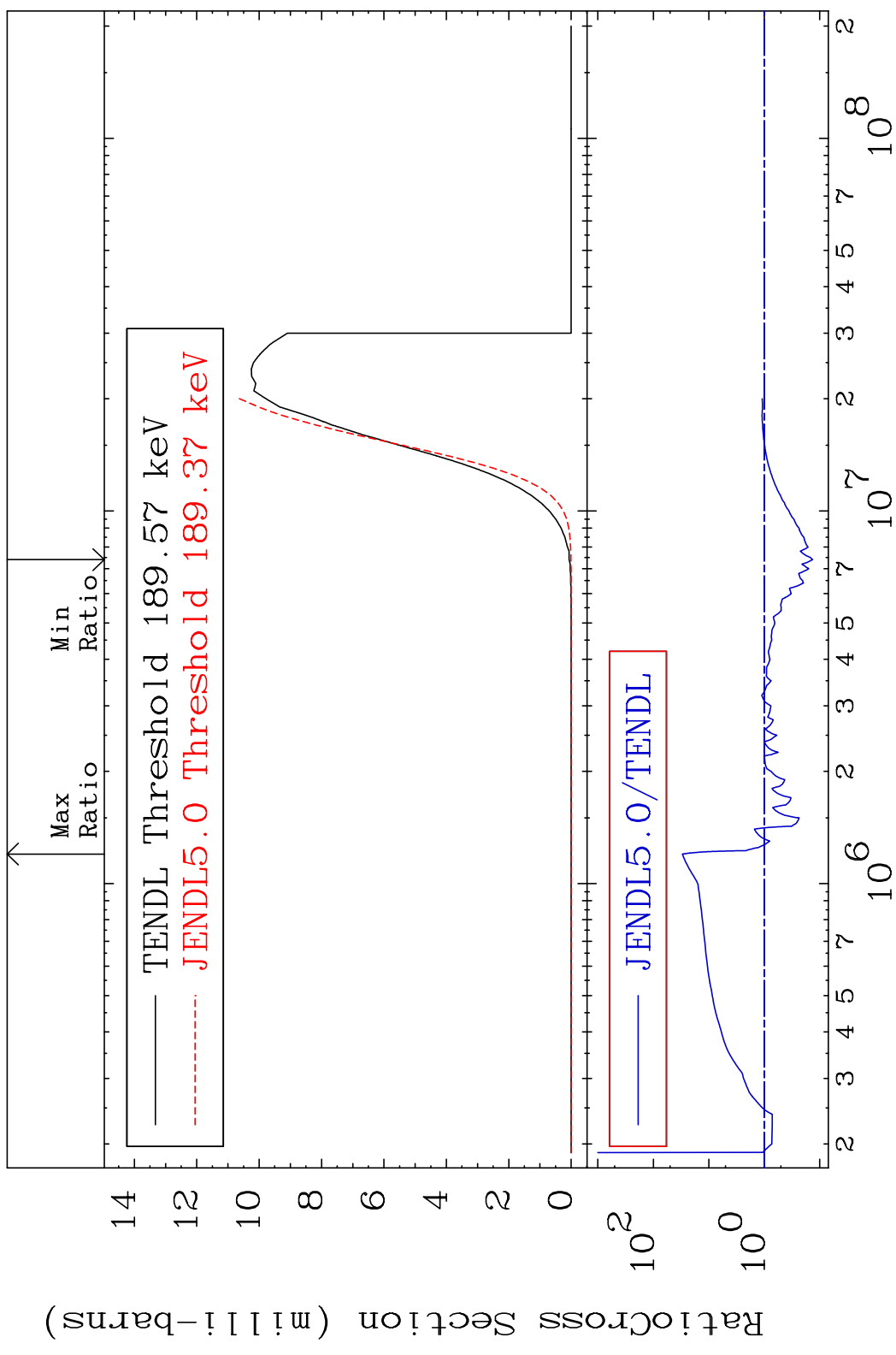
Incident Energy (eV) 65-Tb-159

MAT 6525

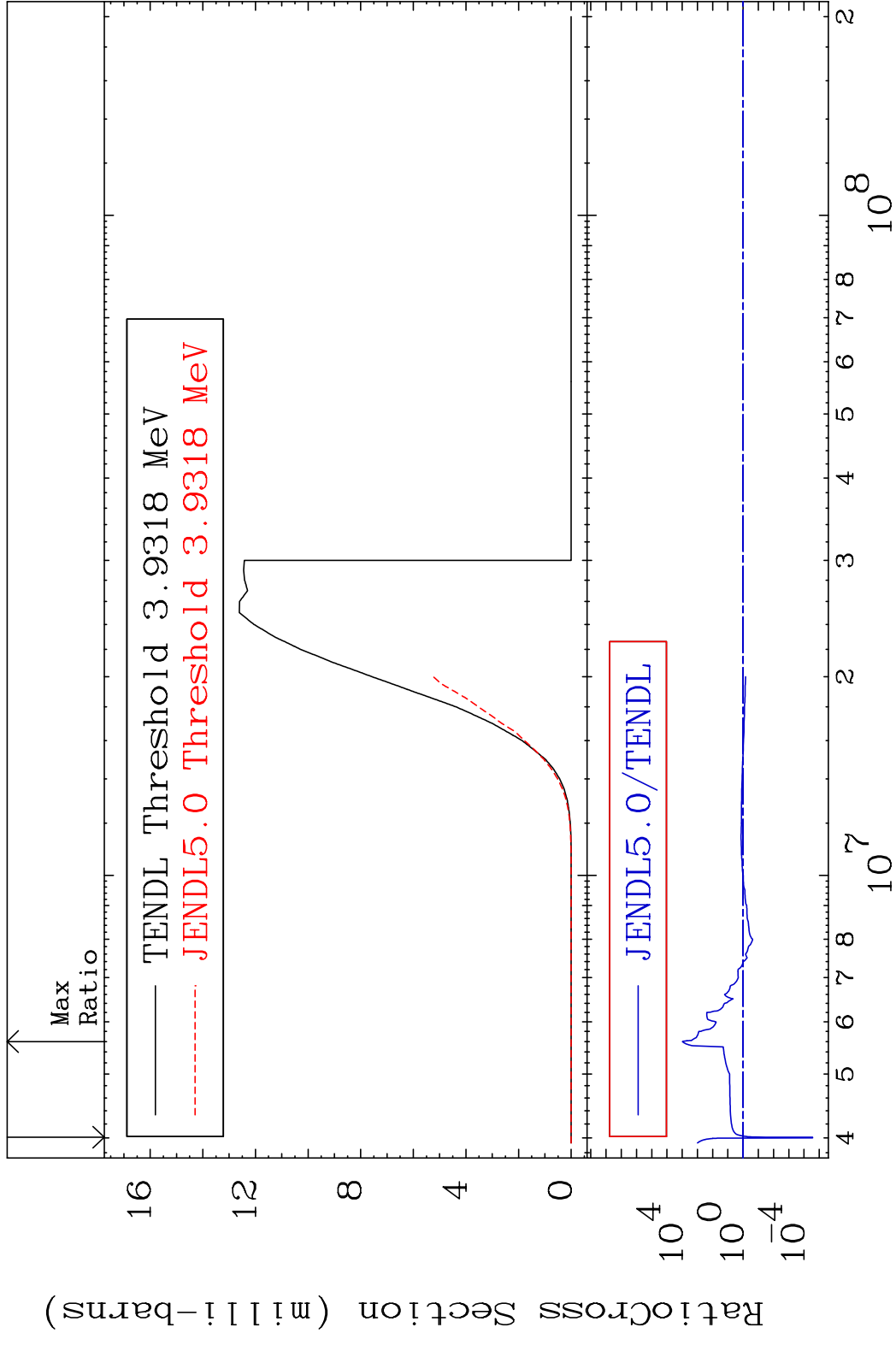
(n, p)

65-Tb-159

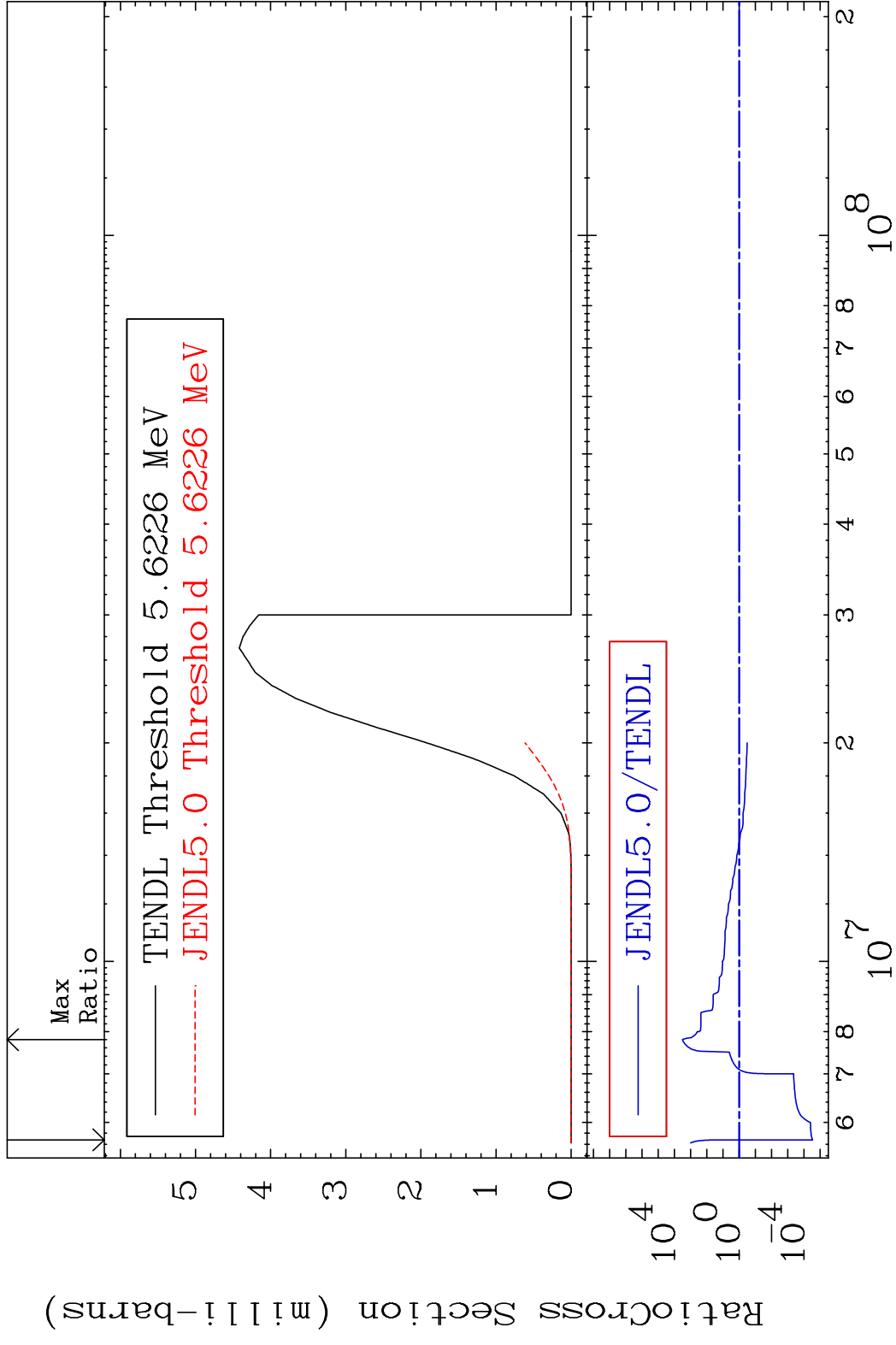
Cross Section -86.57 To 2895. %



MAT 6525 (n,d) 65-Tb-159  
 Cross Section -100.0 To 9999. %

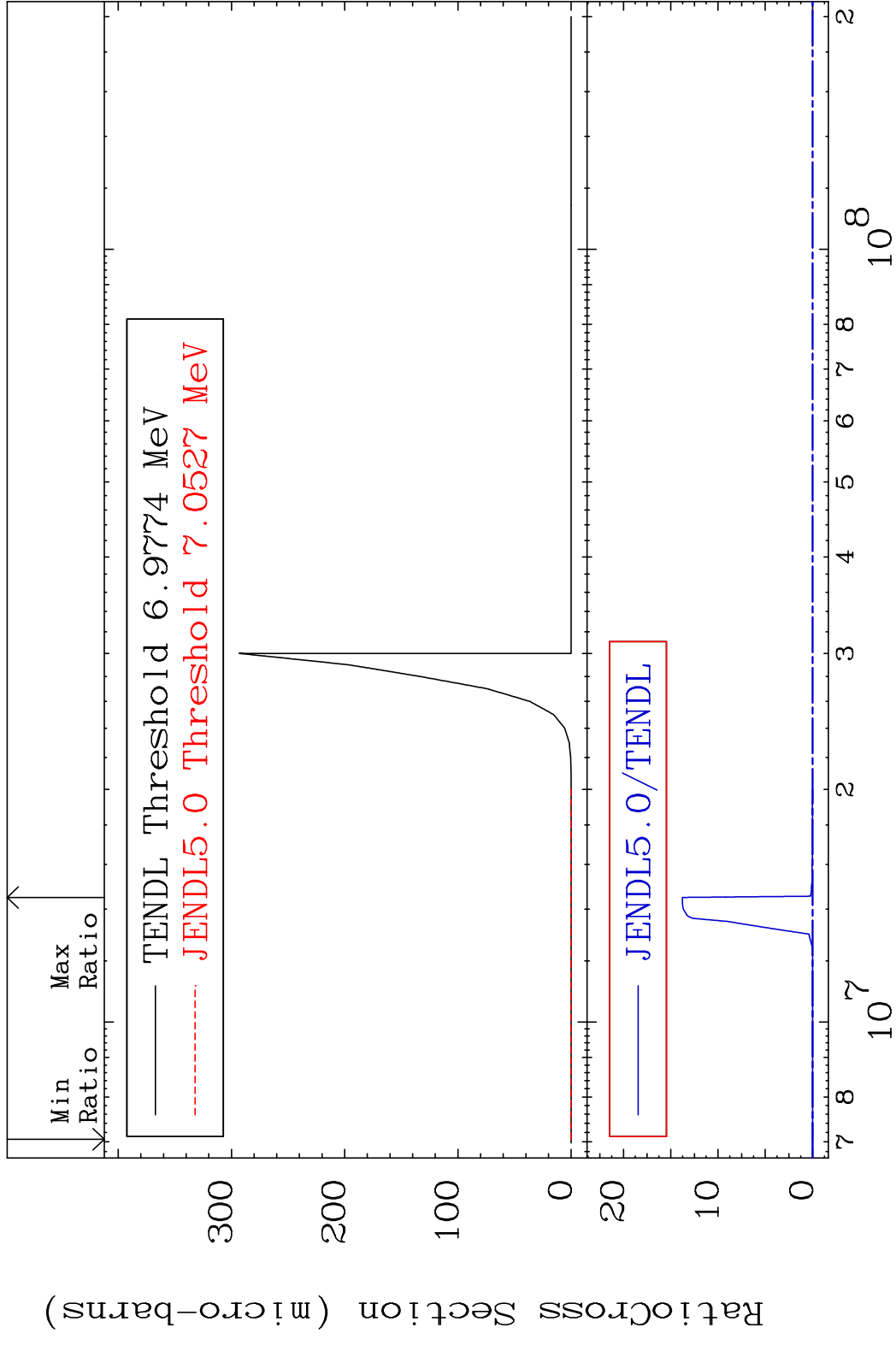


MAT 6525 (n, t) 65-Tb-159  
 Cross Section -100.0 To 9999. %



40 Incident Energy (eV) 65-Tb-159

MAT 6525 (n, He-3) 65-Tb-159  
 Cross Section -100.0 To 9999. %

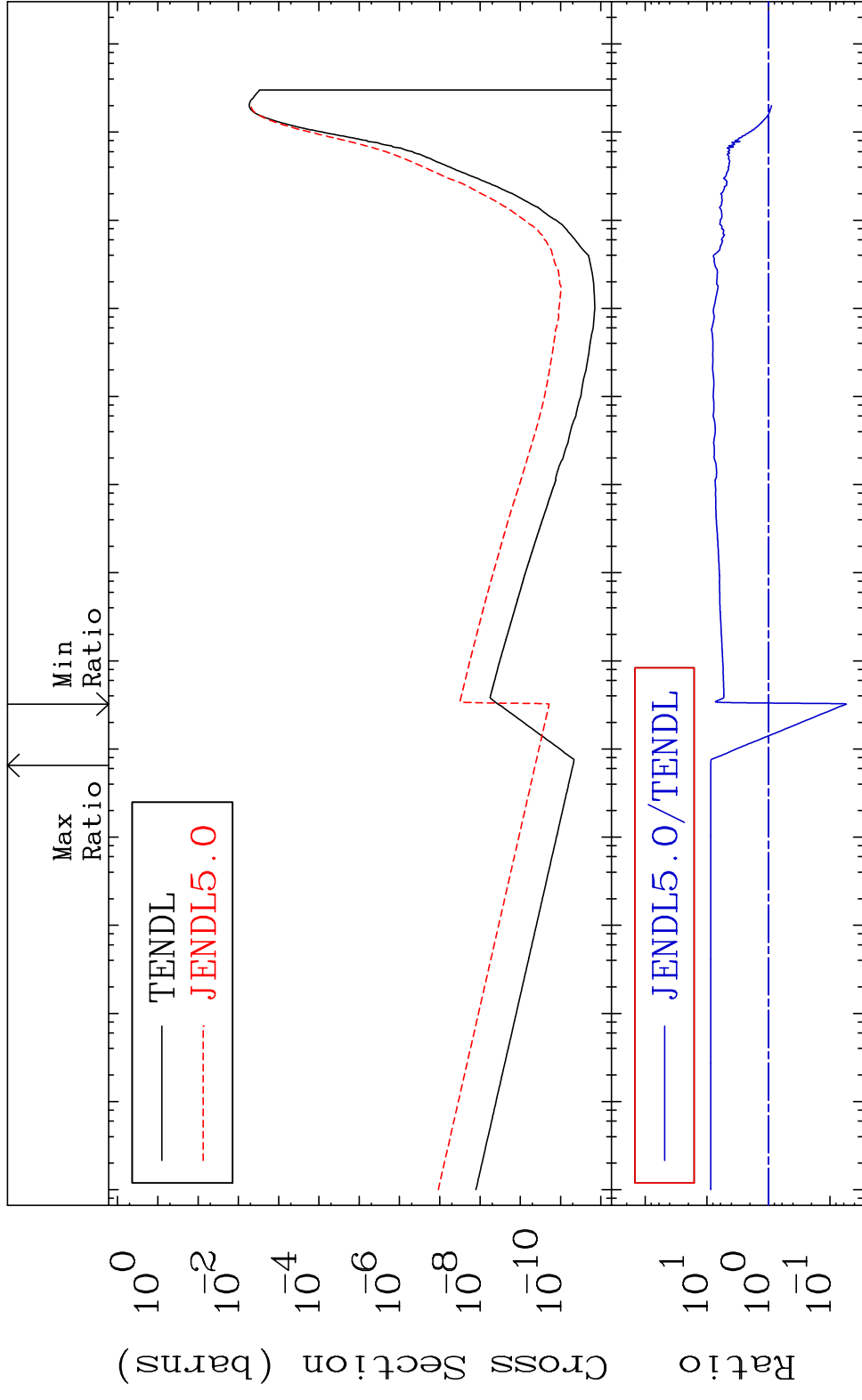


MAT 6525

65-Tb-159

(n,  $\alpha$ )

Cross Section -94.56 To 765.6 %



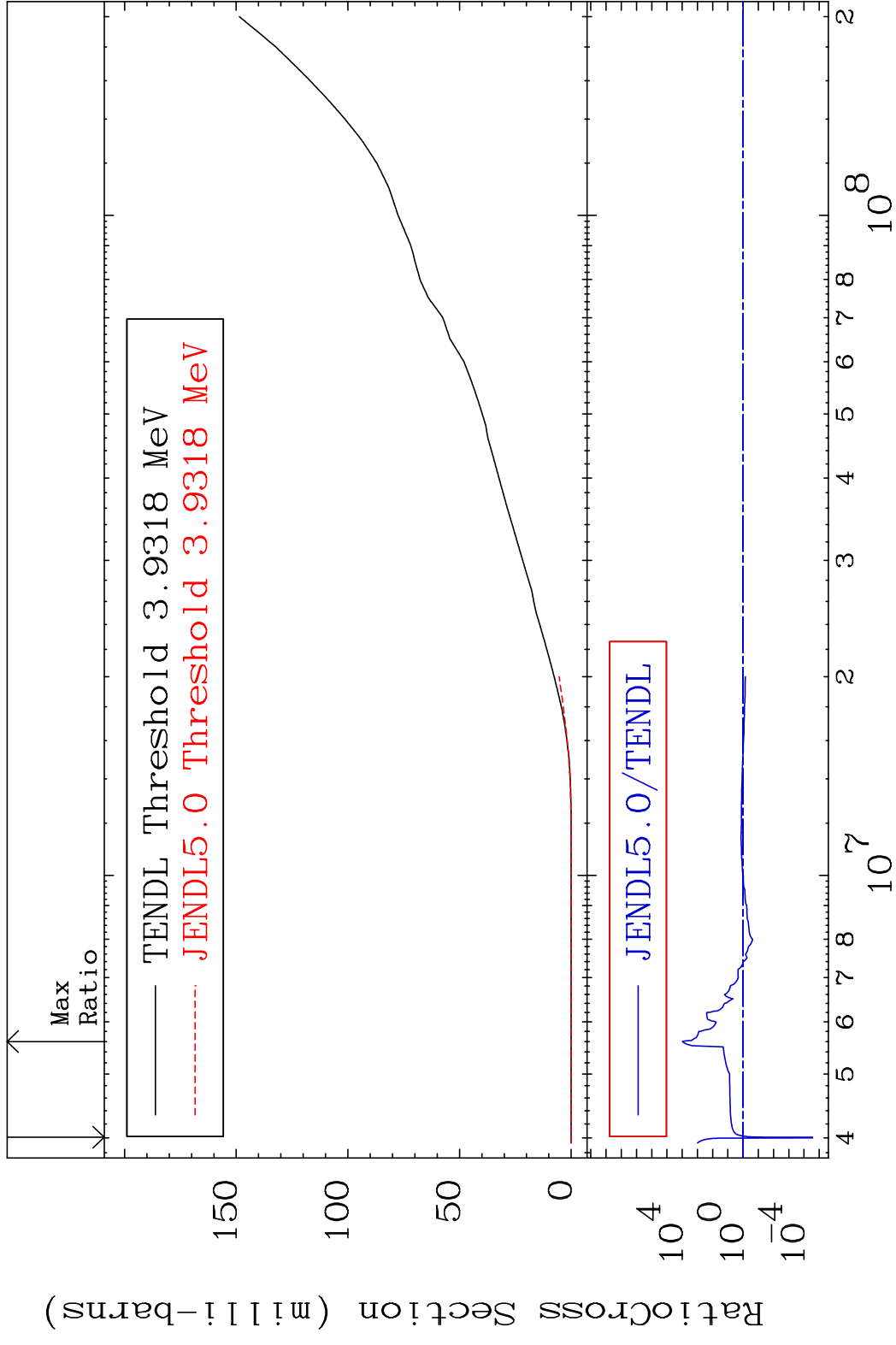


MAT 6525

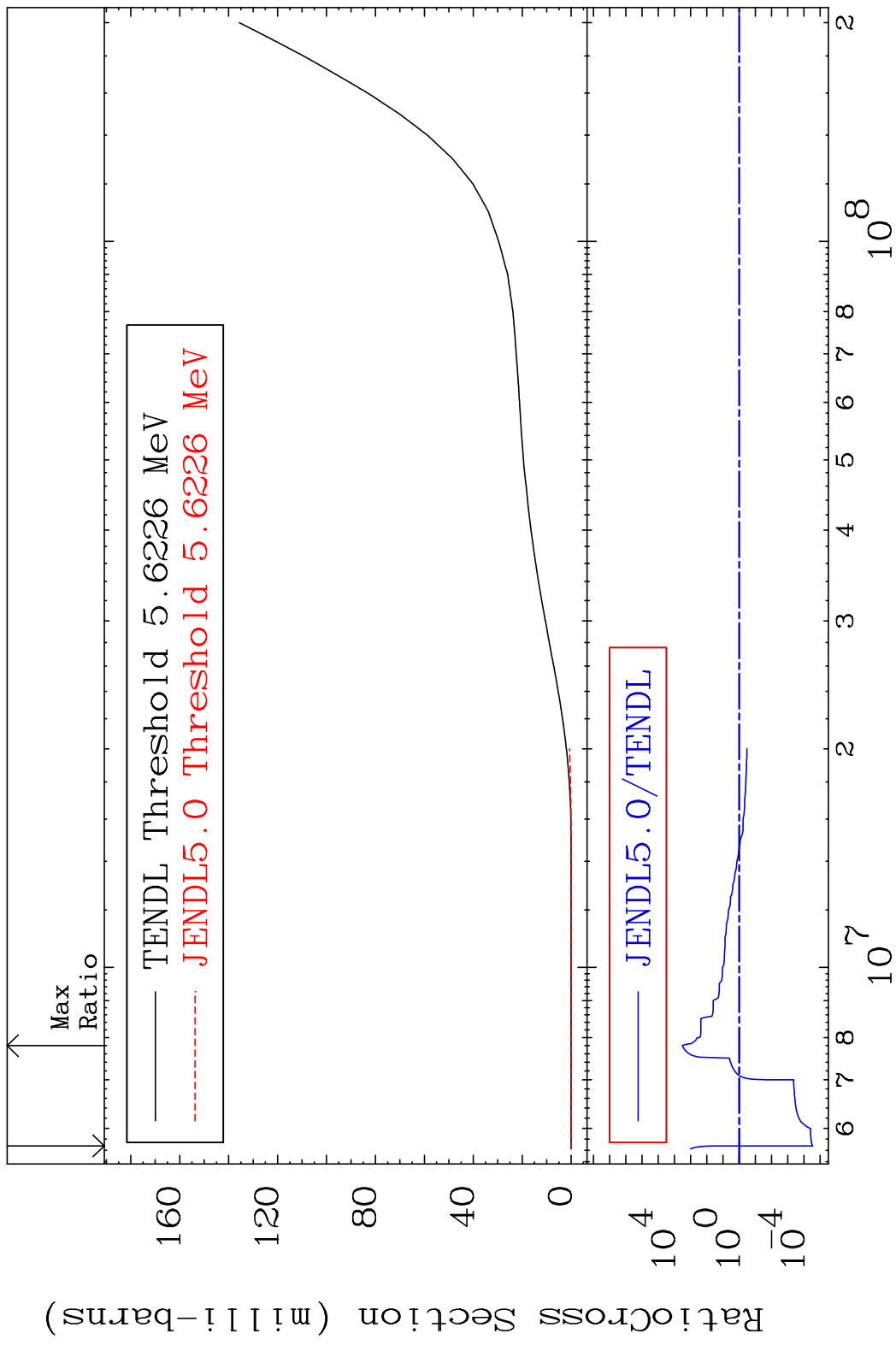
Deuterium Production

65-Tb-159

Cross Section -100.0 To 9999. %



MAT 6525 Tritium Production 65-Tb-159  
 Cross Section -100.0 To 9999. %

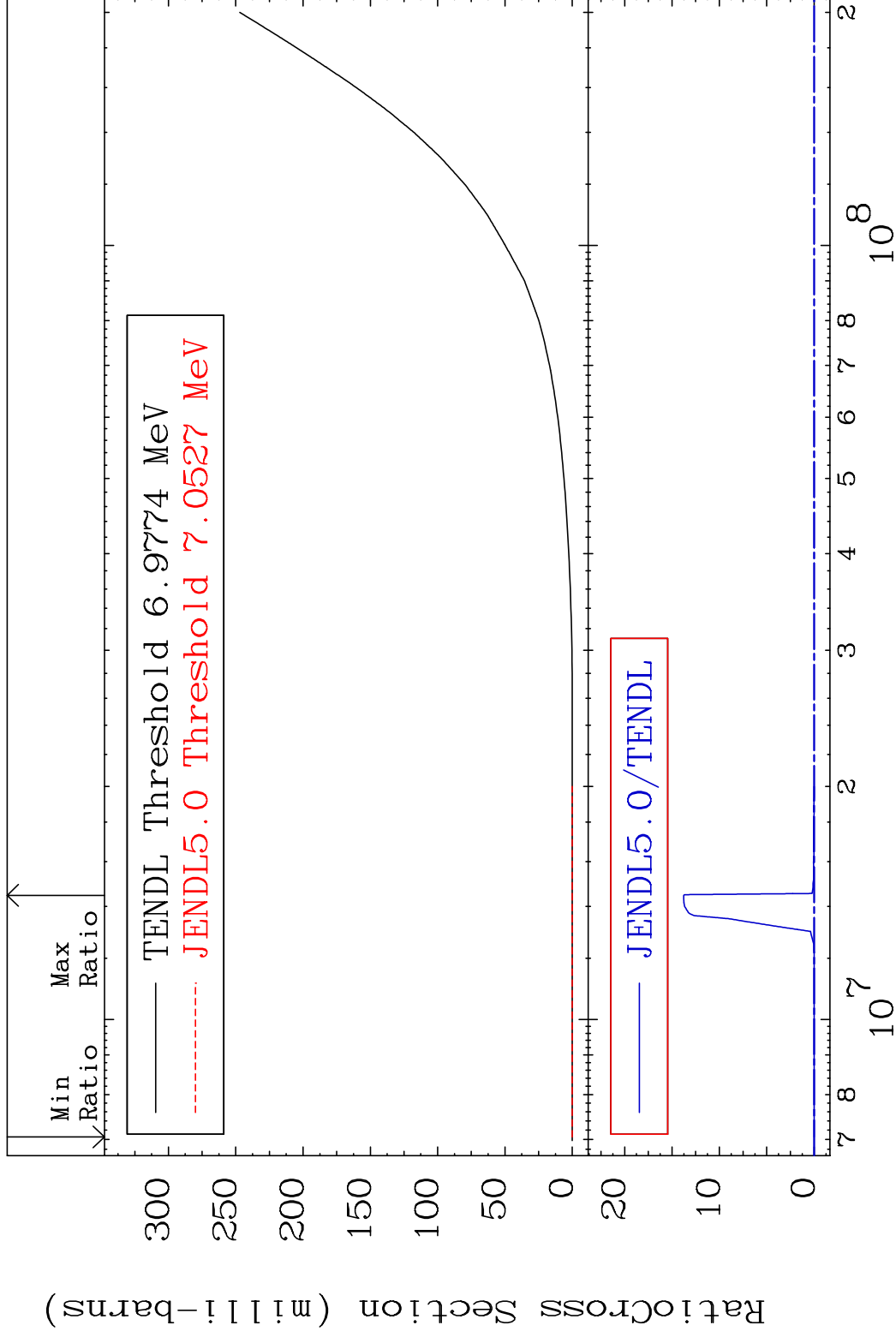


MAT 6525

He-3 Production

65-Tb-159

Cross Section -100.0 To 9999. %



46

Incident Energy (eV)

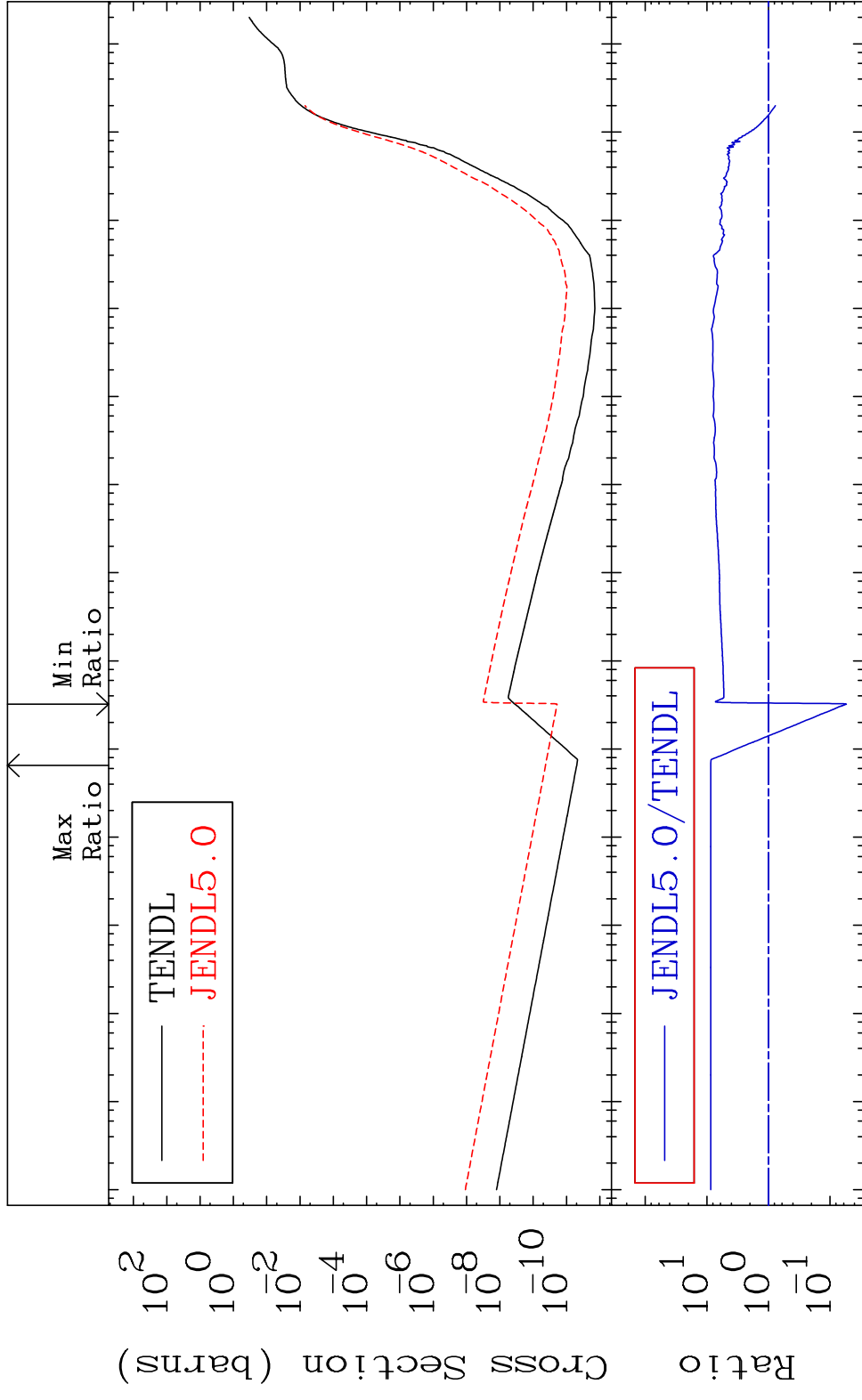
65-Tb-159

MAT 6525

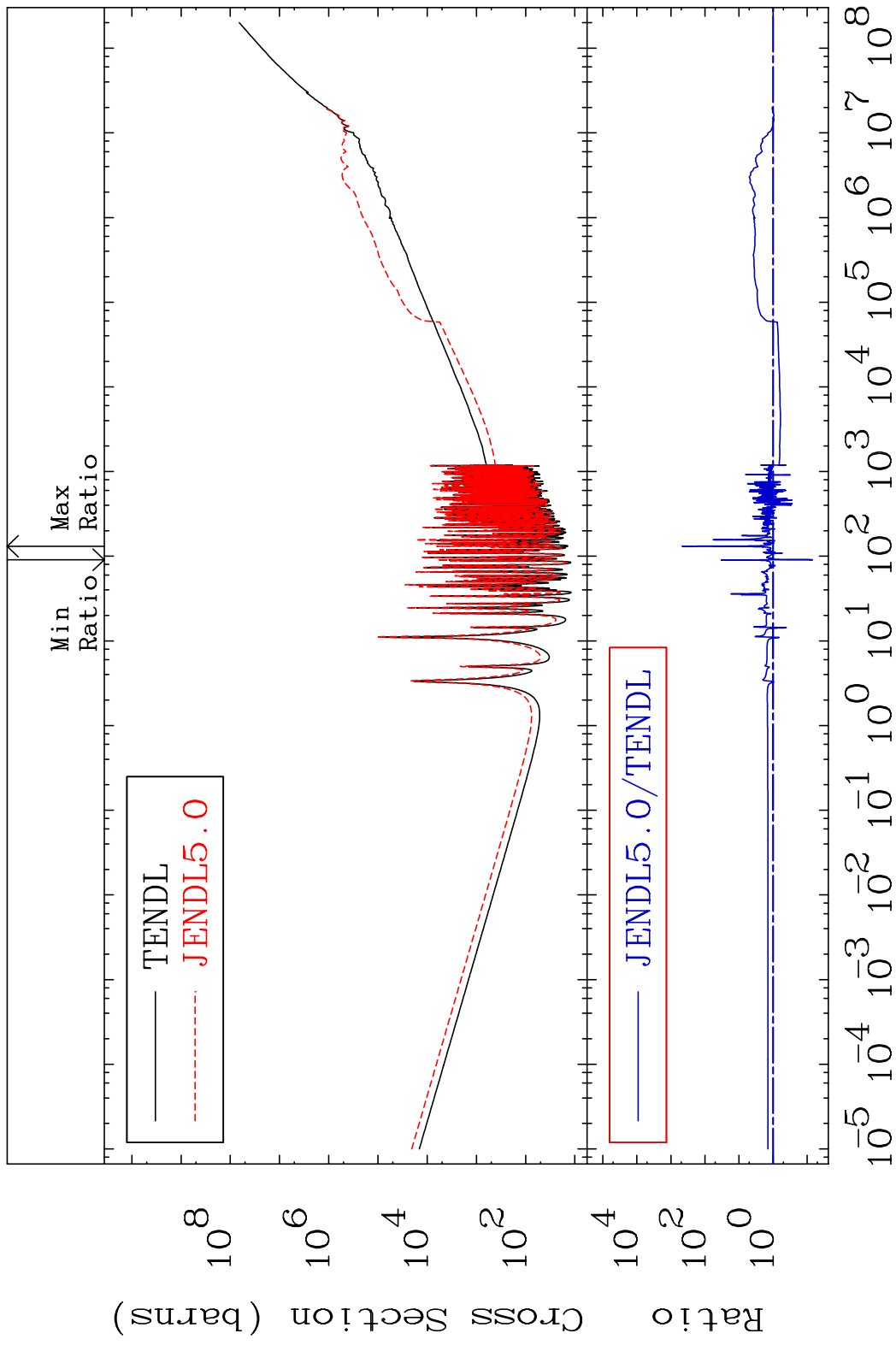
He-4 Production

65-Tb-159

Cross Section -94.56 To 765.6 %



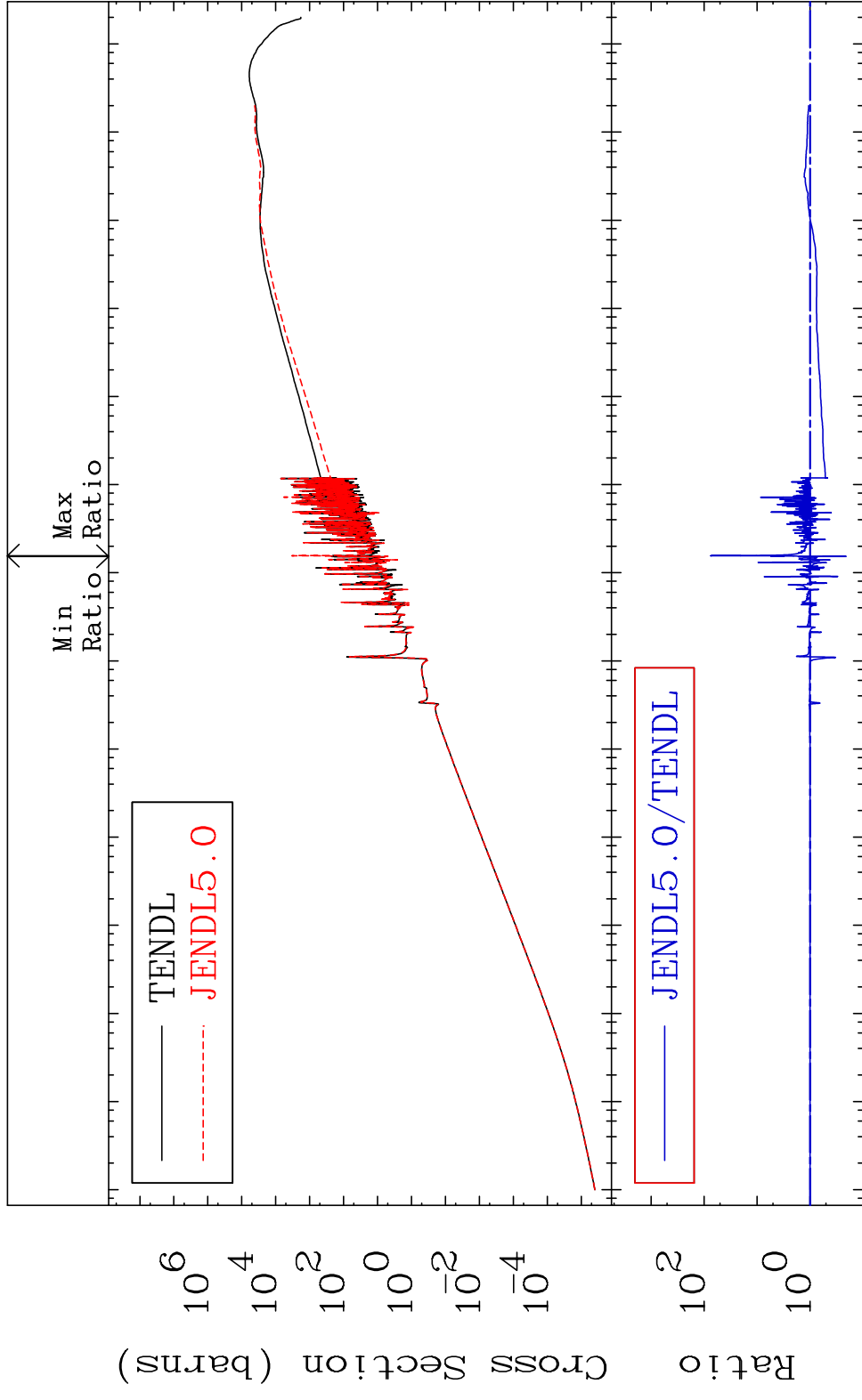
MAT 6525 Kerma total (eV-barns) 65-Tb-159  
Cross Section -93.06 To 9999. %



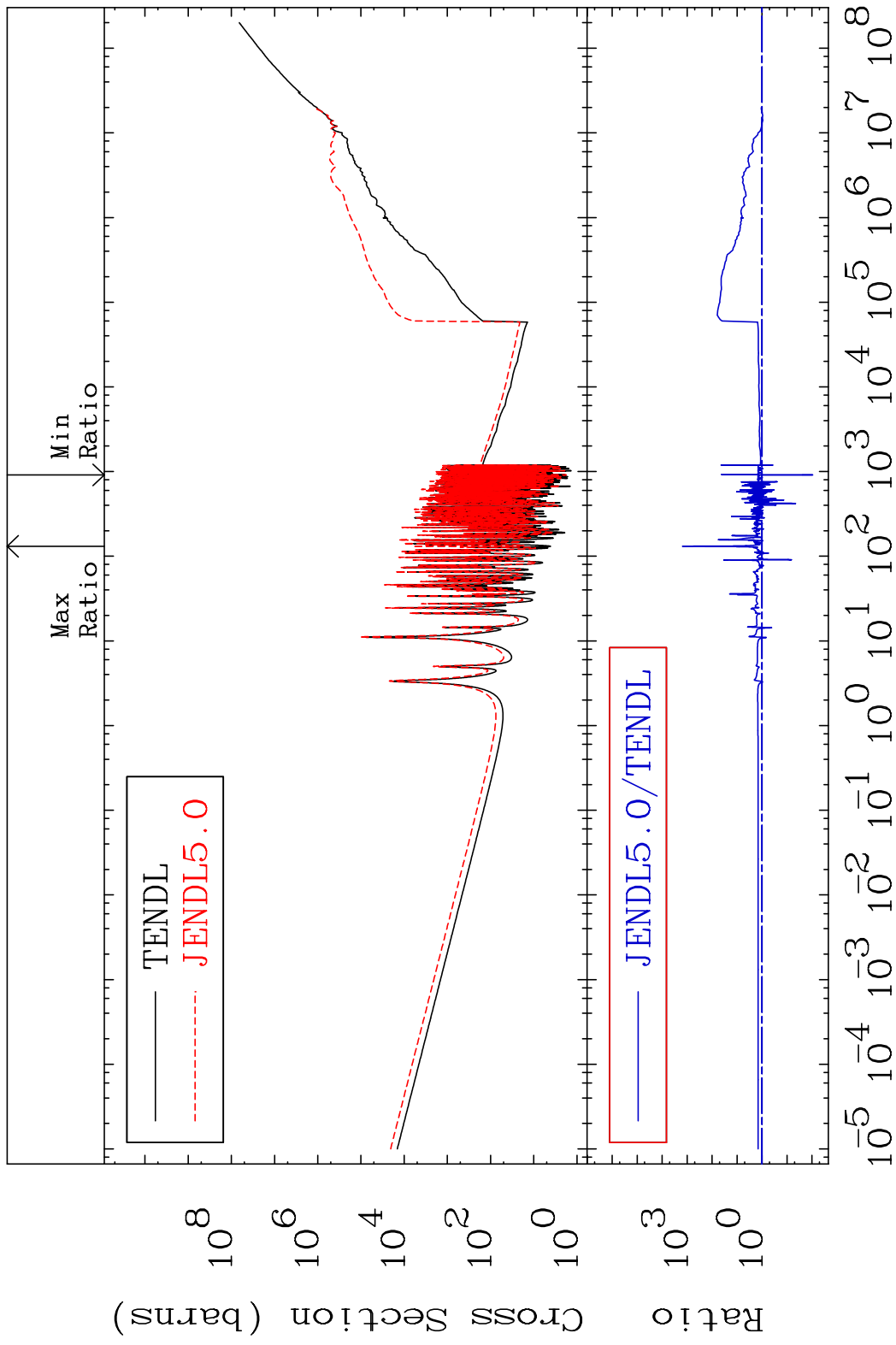
MAT 6525

Kerma elastic  
Cross Section

65-Tb-159  
-79.42 To 7390. %

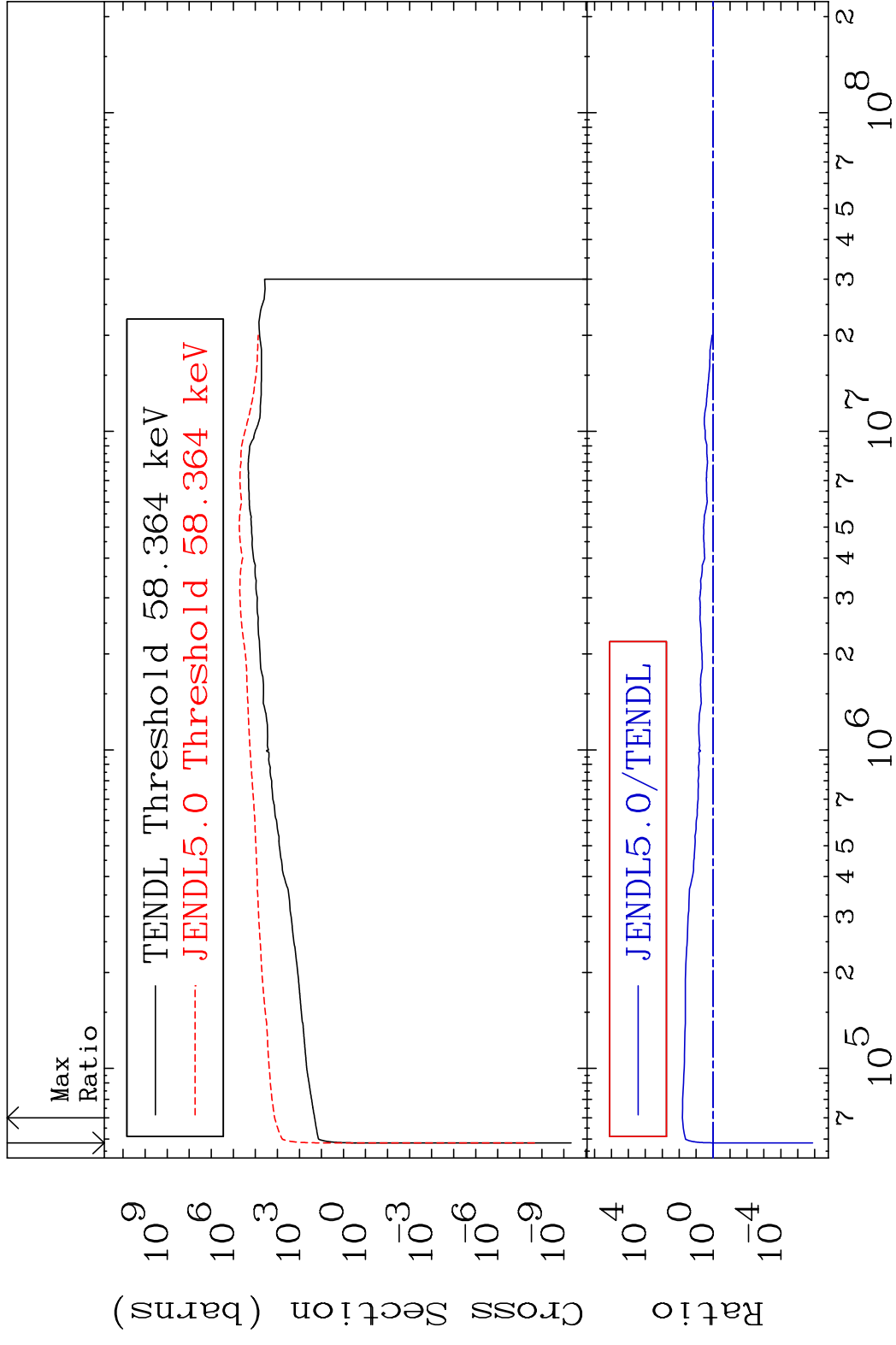


MAT 6525 Kerma non-elastic (all but mt2) 65-Tb-159  
Cross Section -99.06 To 9999. %

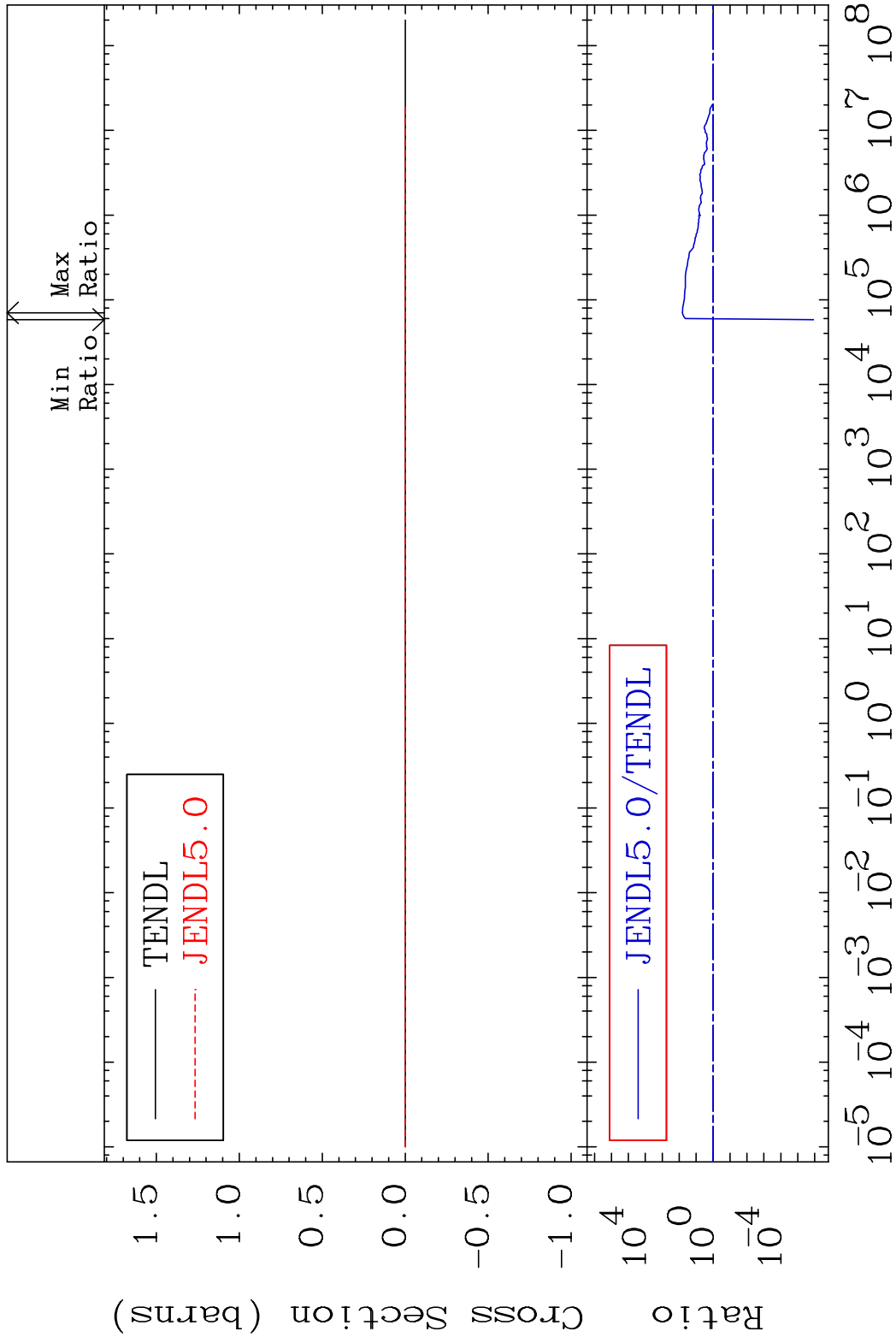


50 Incident Energy (eV) 65-Tb-159

MAT 6525 Kerma inelastic (mt51-91) 65-Tb-159  
 Cross Section -100.0 To 6412. %

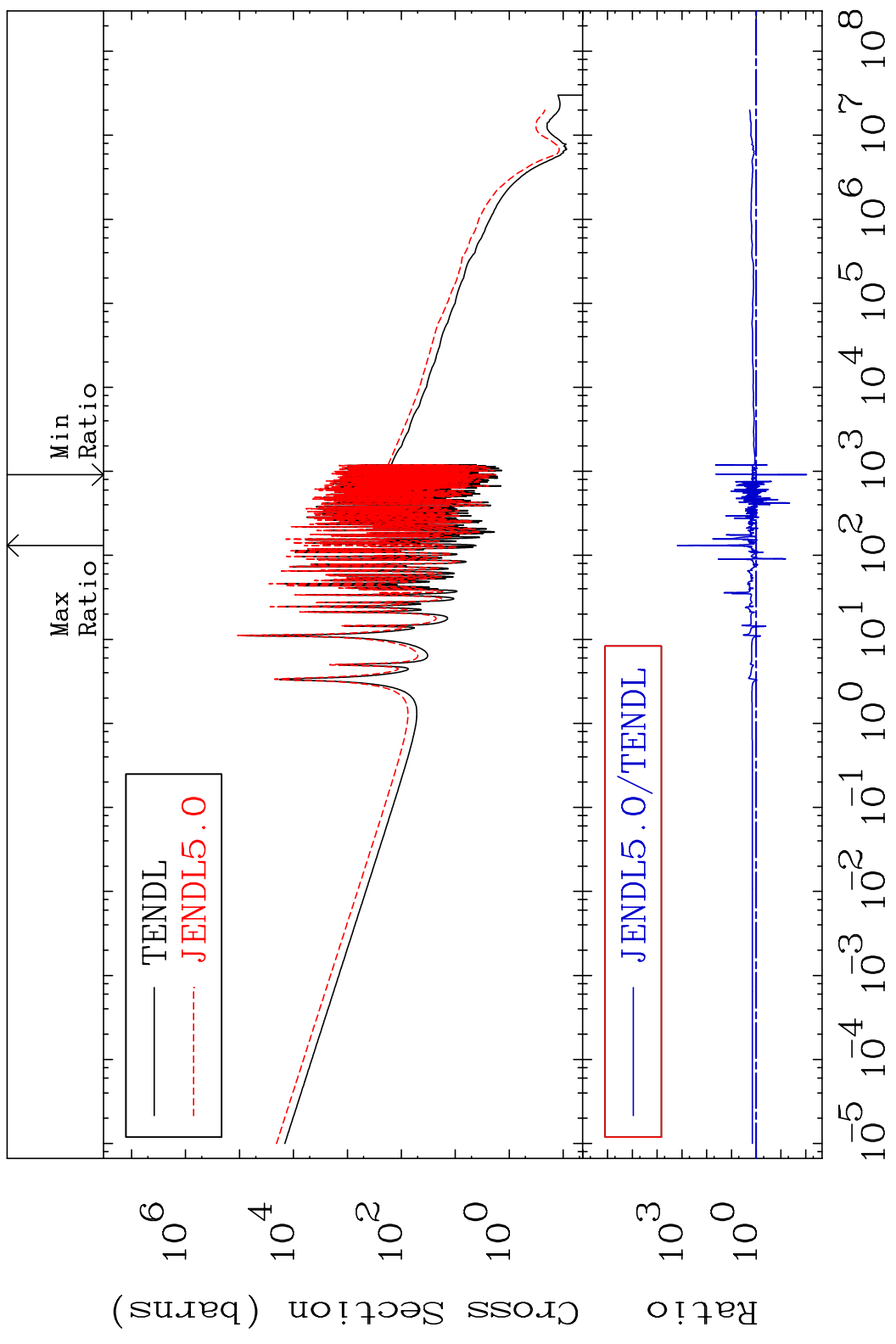


MAT 6525 Kerma fission (mt18 or mt19-20-21-38) 65-Tb-159  
 Cross Section -100.0 To 6412. %

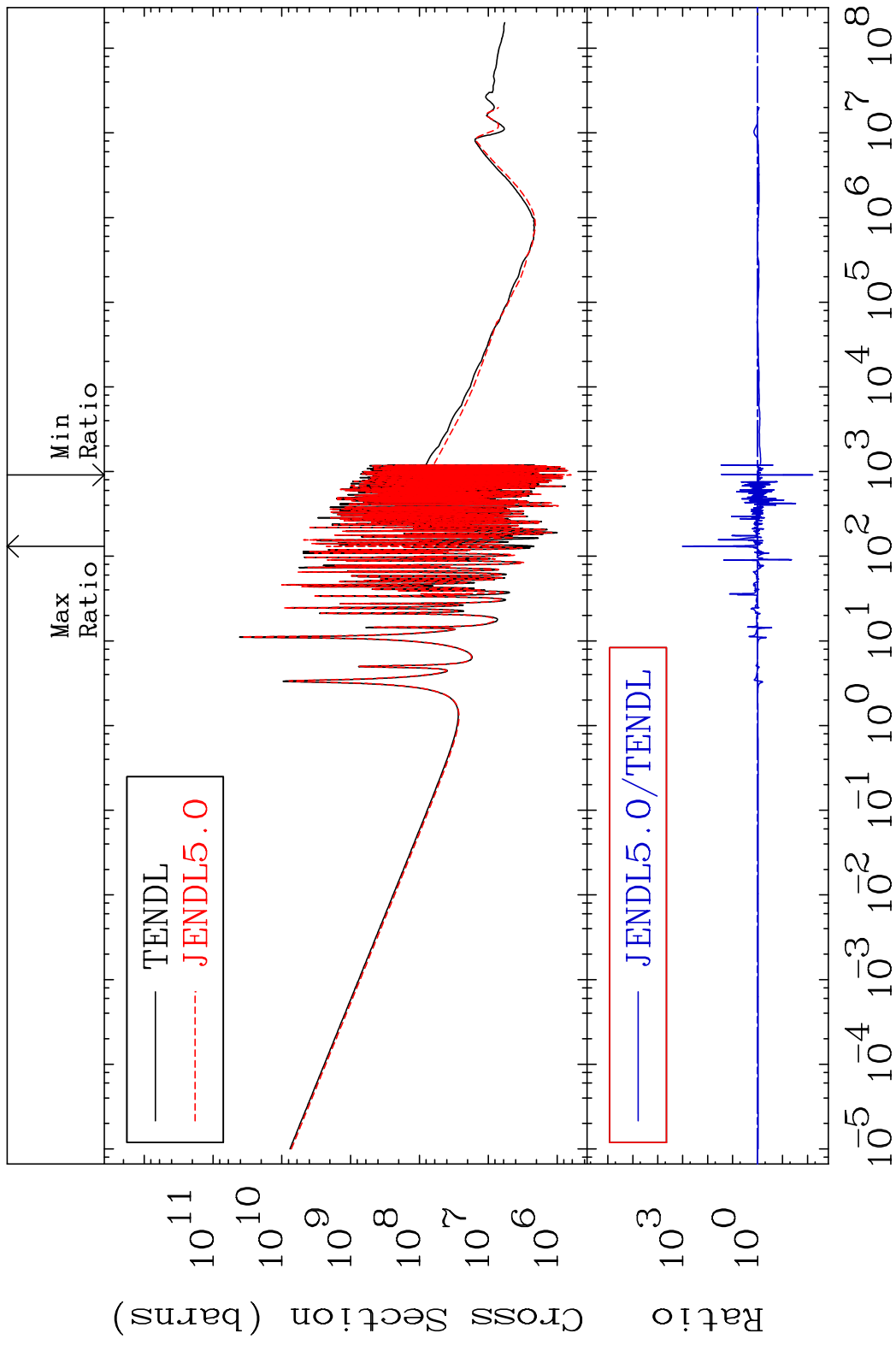


MAT 6525

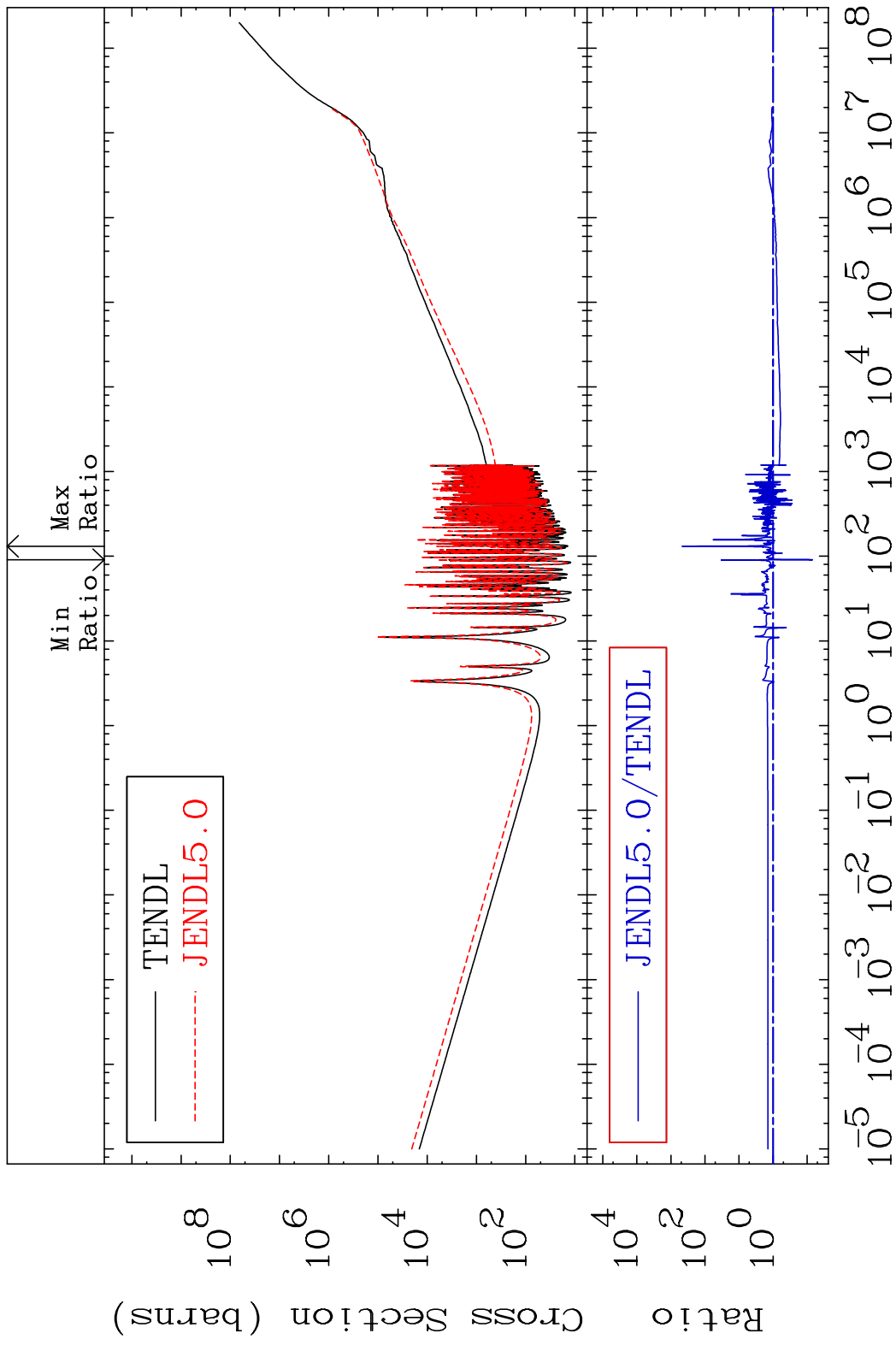
Kerma capture (mt102) 65-Tb-159  
Cross Section -99.06 To 9999. %



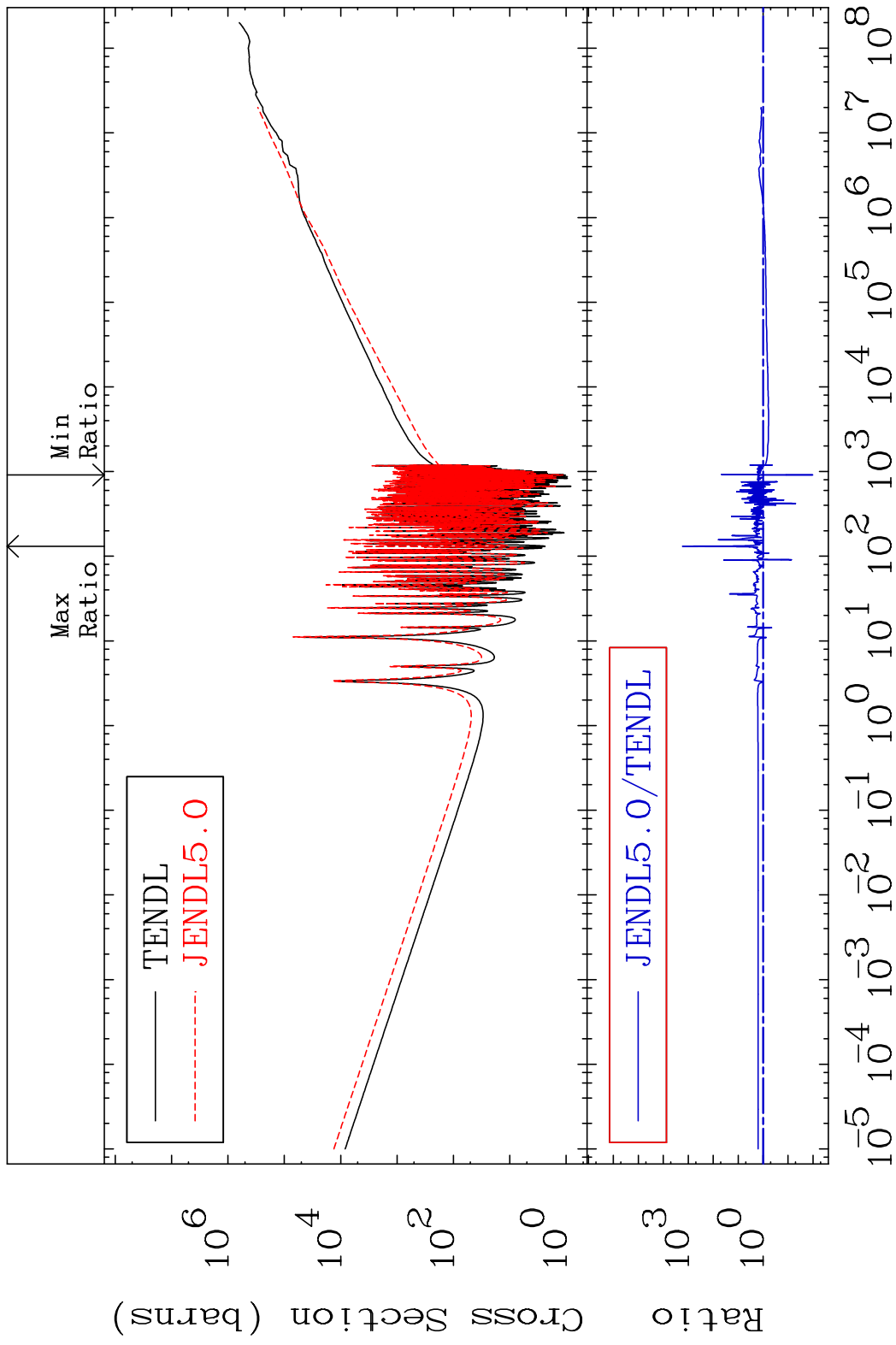
MAT 6525 Total photon (eV-barns) 65-Tb-159  
 Cross Section -99.37 To 9999. %



MAT 6525 Total kinematic kerma (high limit) 65-Tb-159  
 Cross Section -93.06 To 9999. %



MAT 6525      Dpa total (eV-barns)      65-Tb-159  
 Cross Section      -98.95 To 9999. %



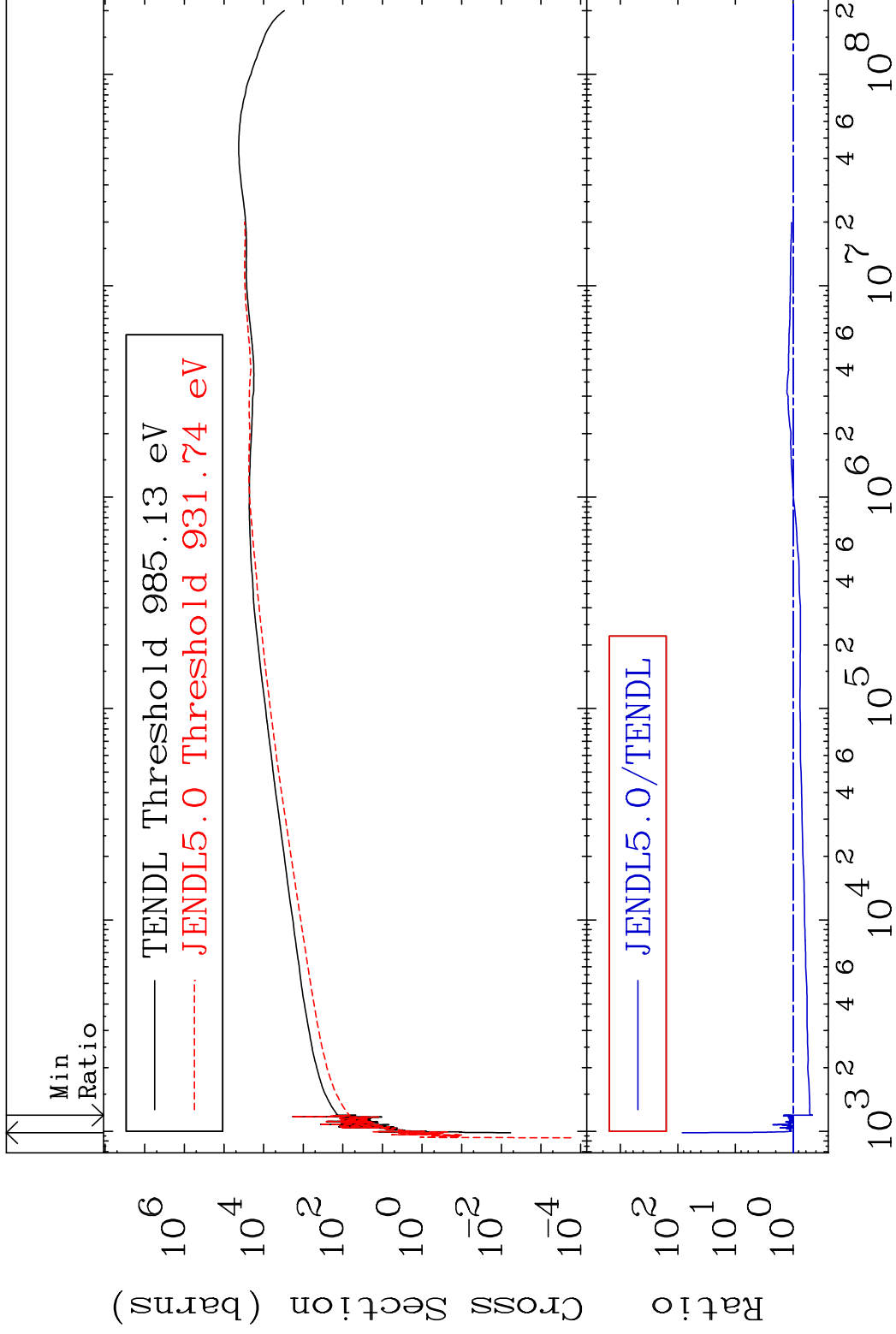
MAT 6525

Dpa elastic (mt2)

65-Tb-159

Cross Section

-53.95 To 8331. %

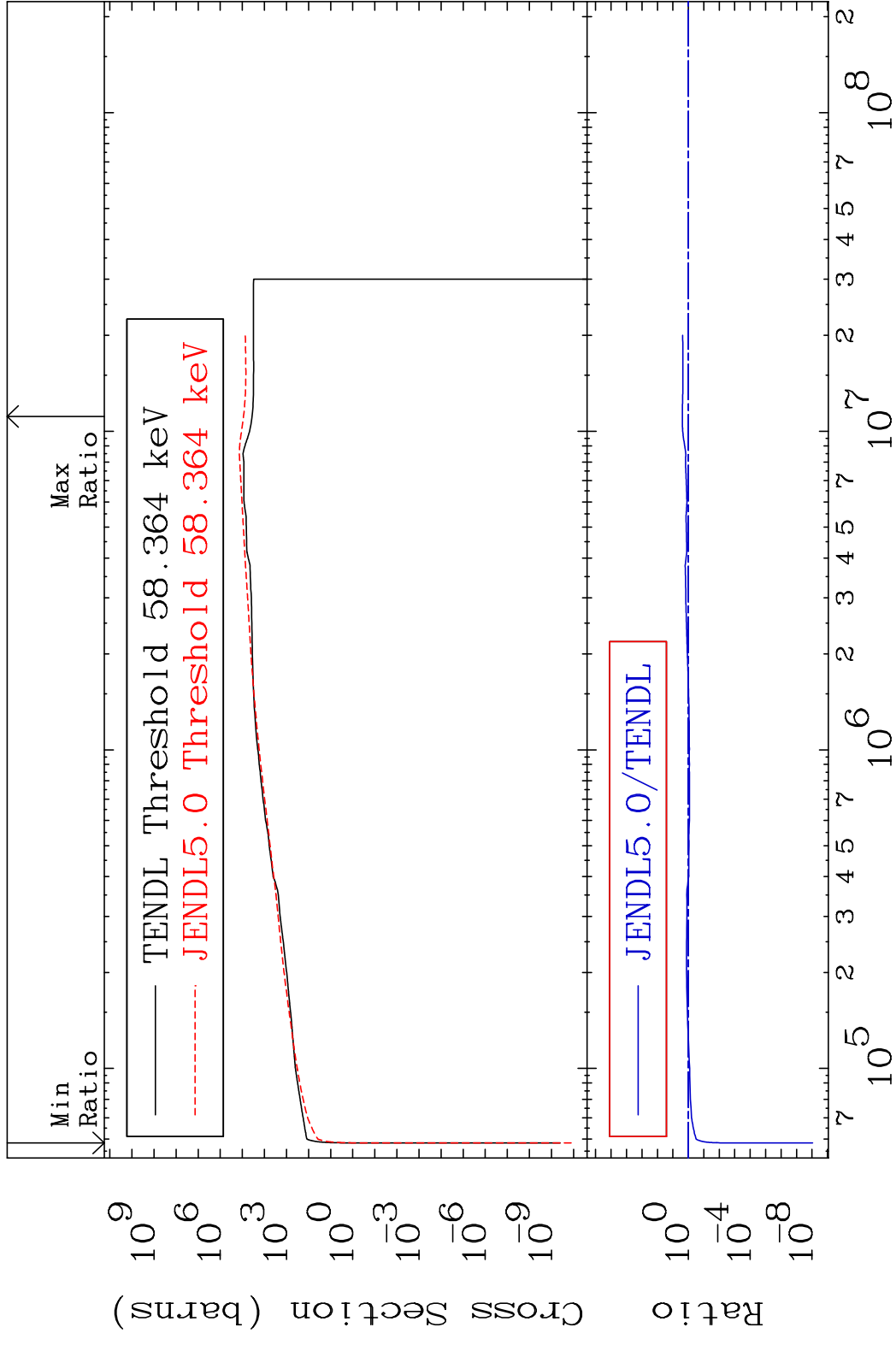


57

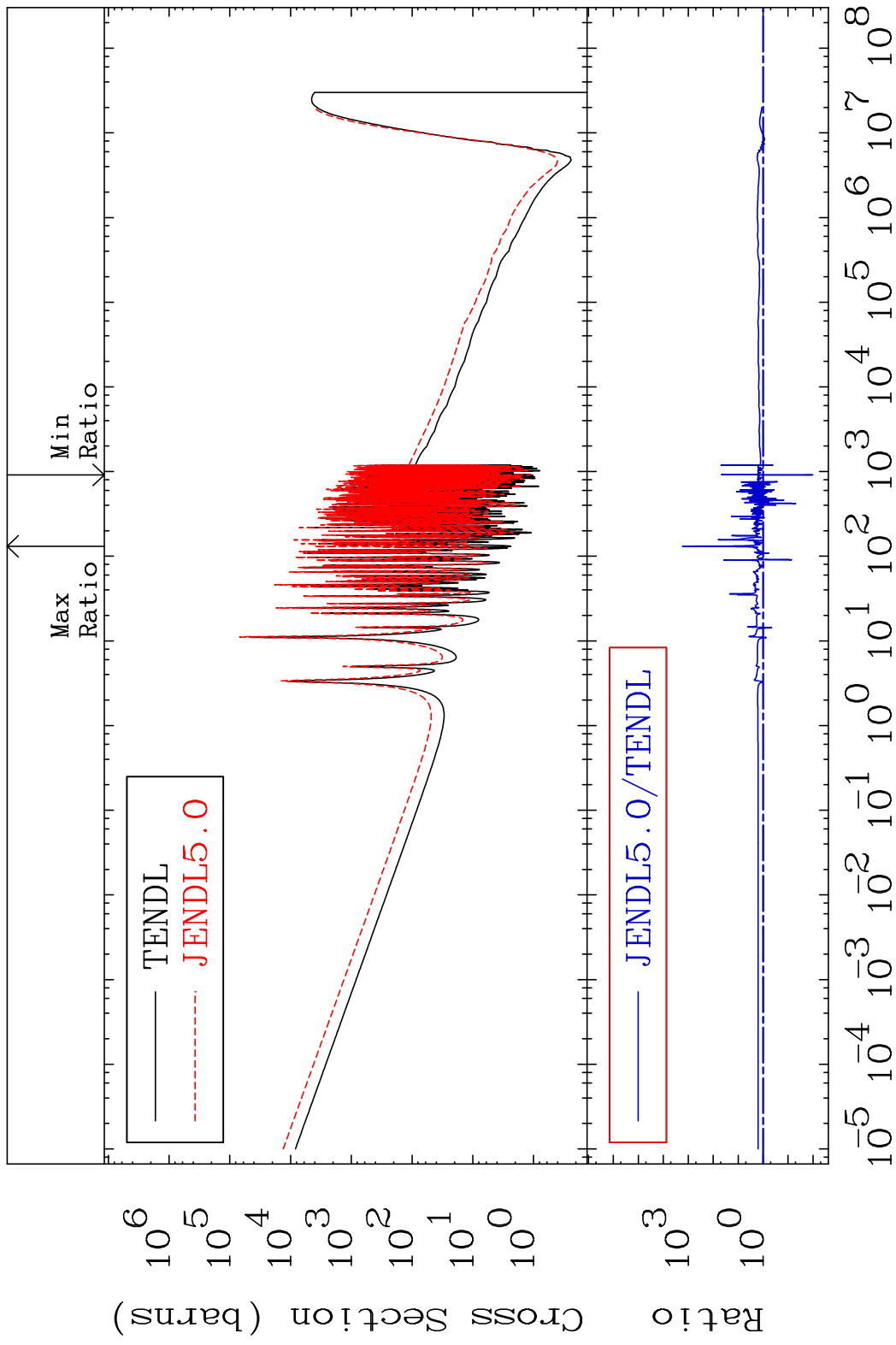
Incident Energy (eV)

65-Tb-159

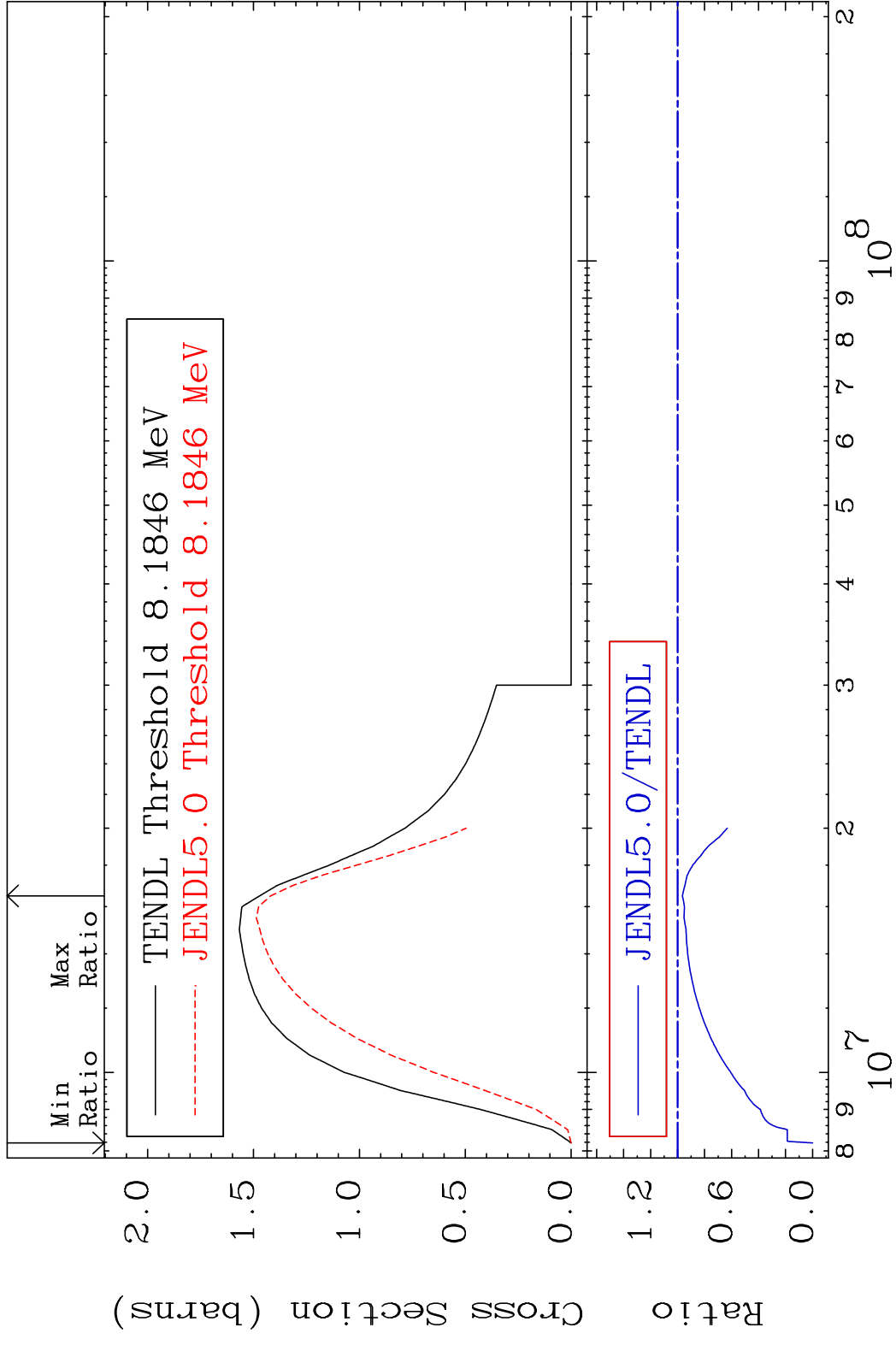
MAT 6525      Dpa inelastic (mt51-91)      65-Tb-159  
 Cross Section      -100.0 To 144.1 %



MAT 6525 Dpa disappearance (mt102 -120) 65-Tb-159  
Cross Section -98.95 To 9999. %



MAT 6525 (n,2n):65-Tb-158g 65-Tb-159  
 Radionuclide Production Cross Section Ratio -3.511%

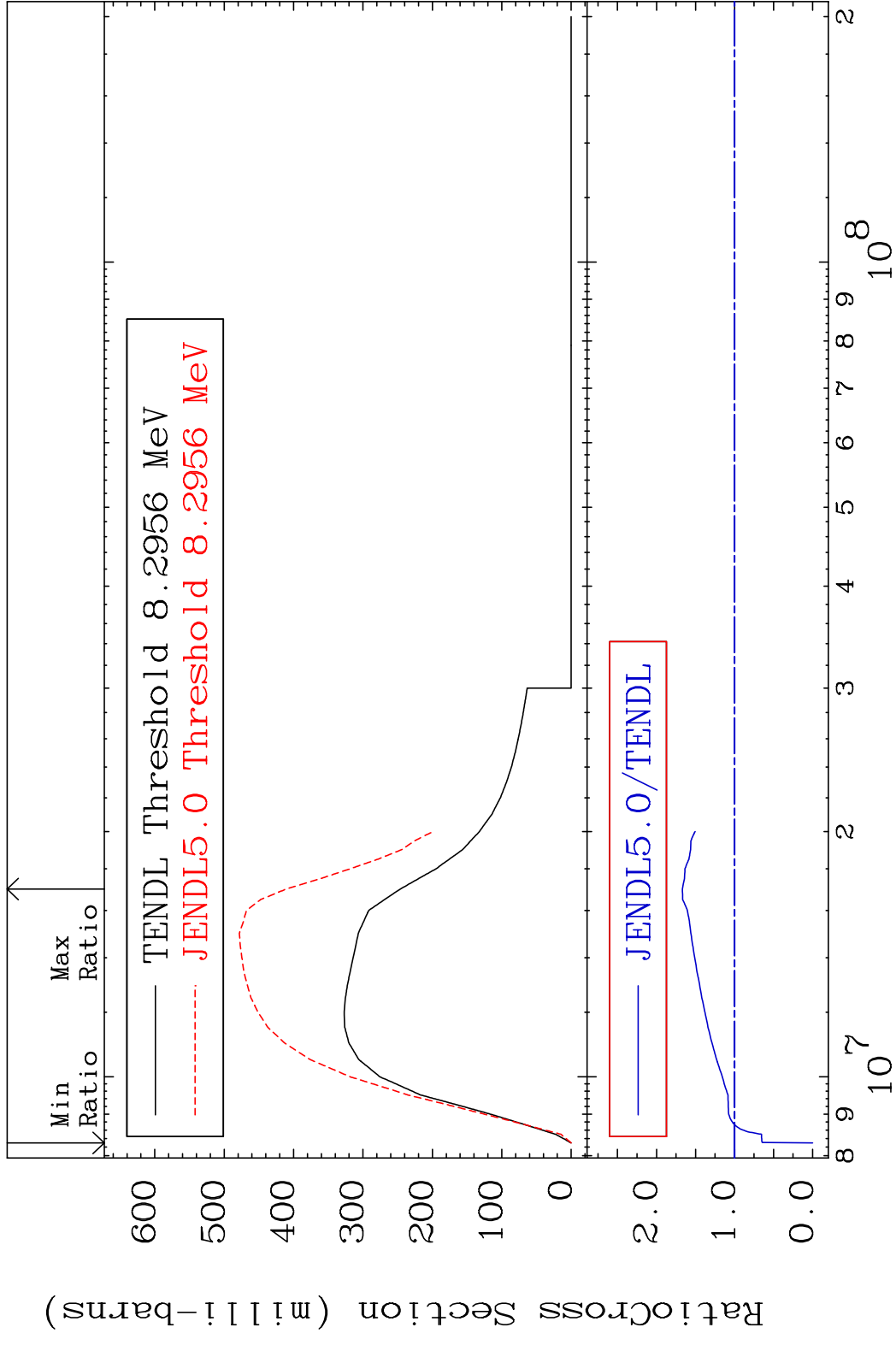


60

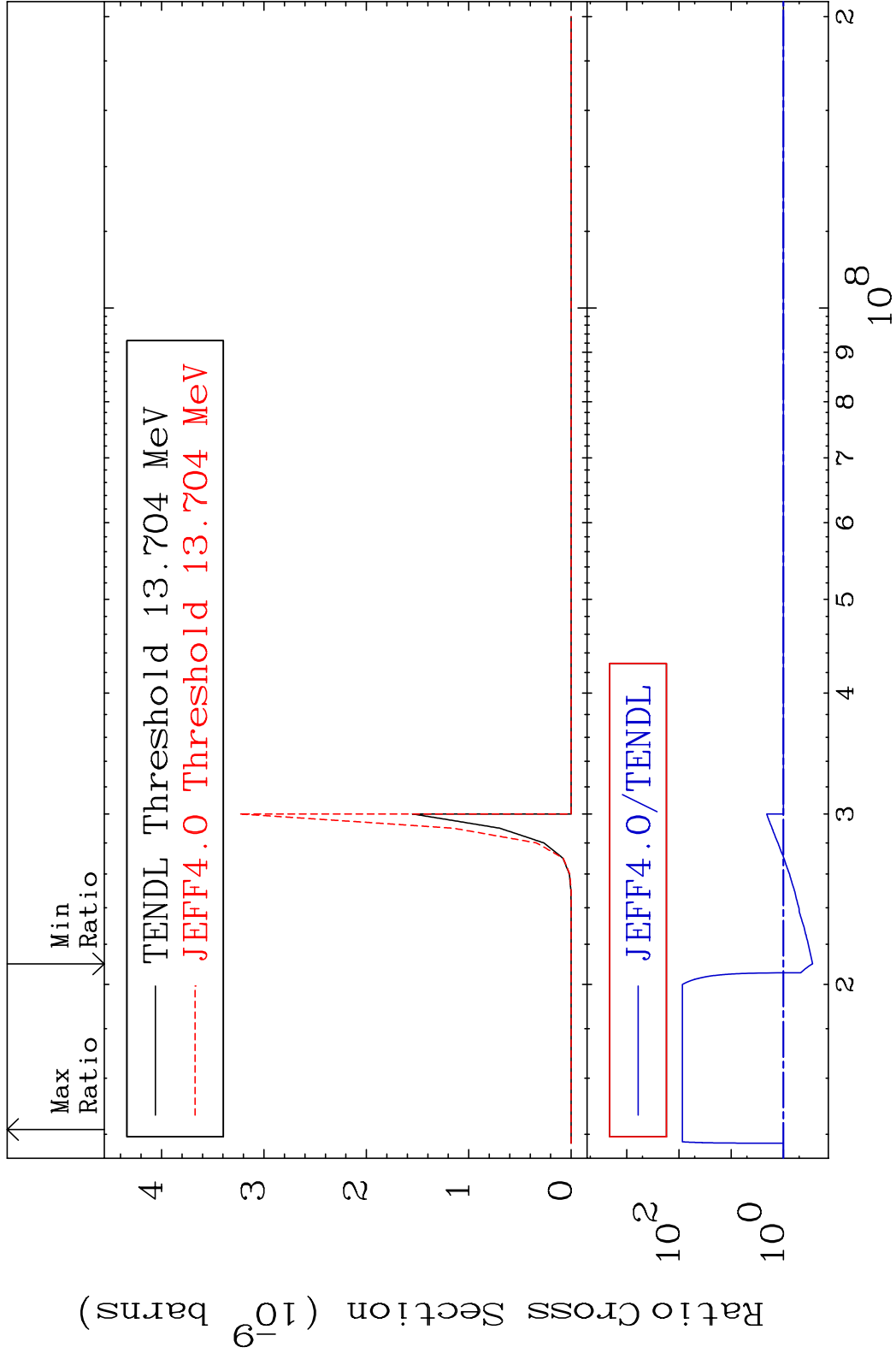
Incident Energy (eV)

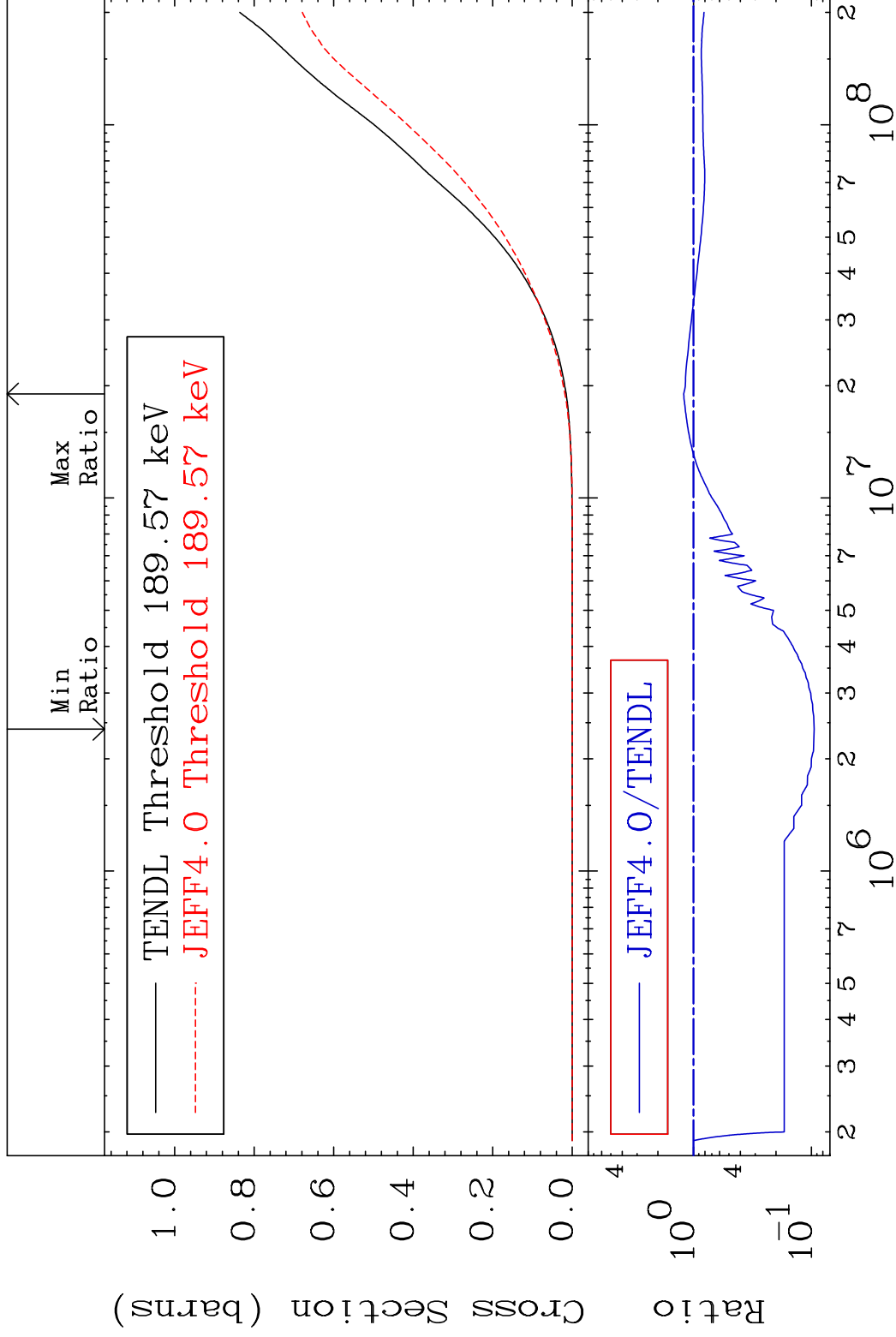
65-Tb-159

MAT 6525 (n, 2n):65-Tb-158m3 65-Tb-159  
 Radionuclide Production Cross Section Ratio 66.87 %



MAT 6525 (n,p) t 65-Tb-159  
 Cross Section -72.31 To 8543. %



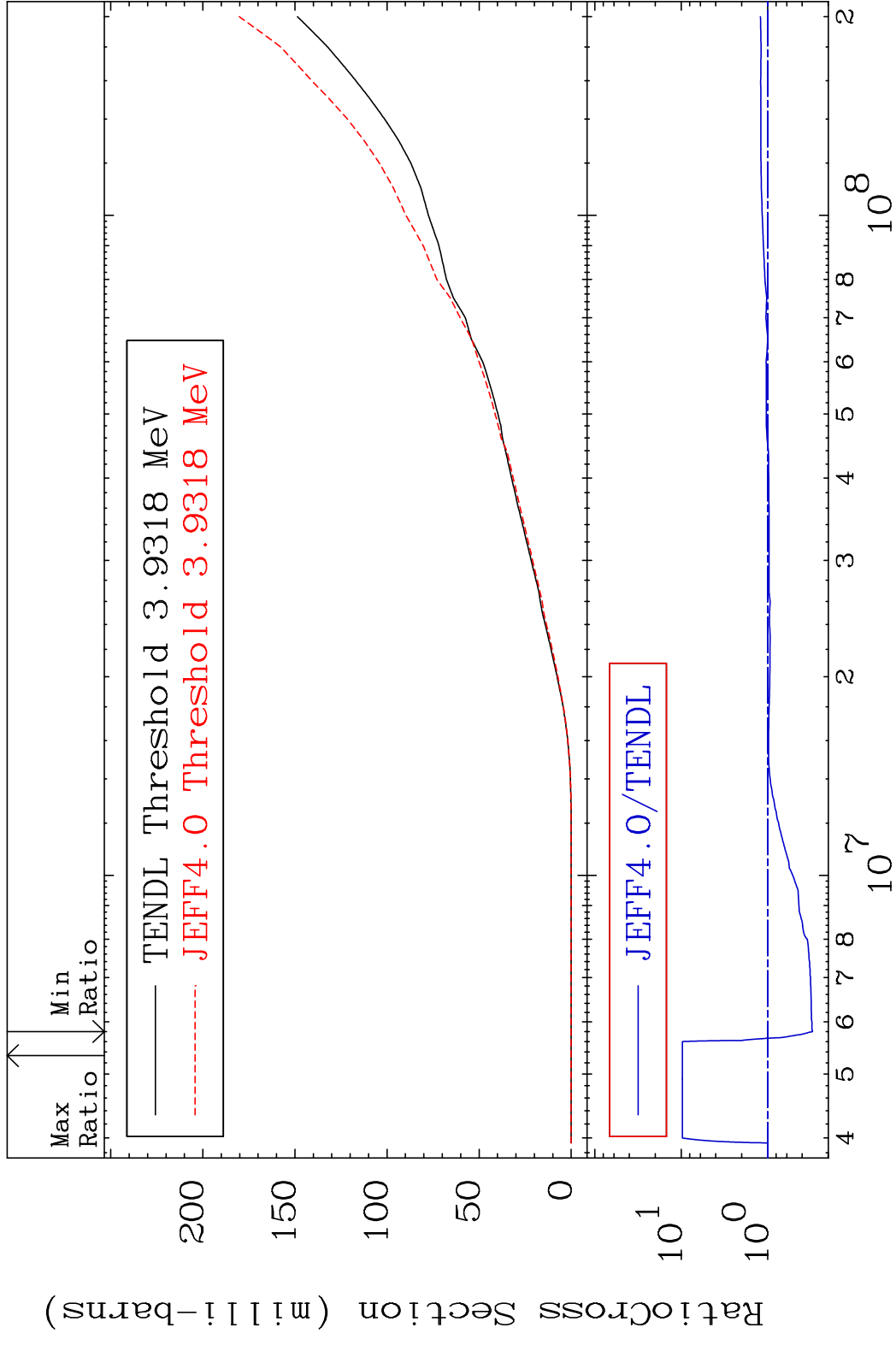


MAT 6525

Deuterium Production

65-Tb-159

Cross Section -69.71 To 870.6 %

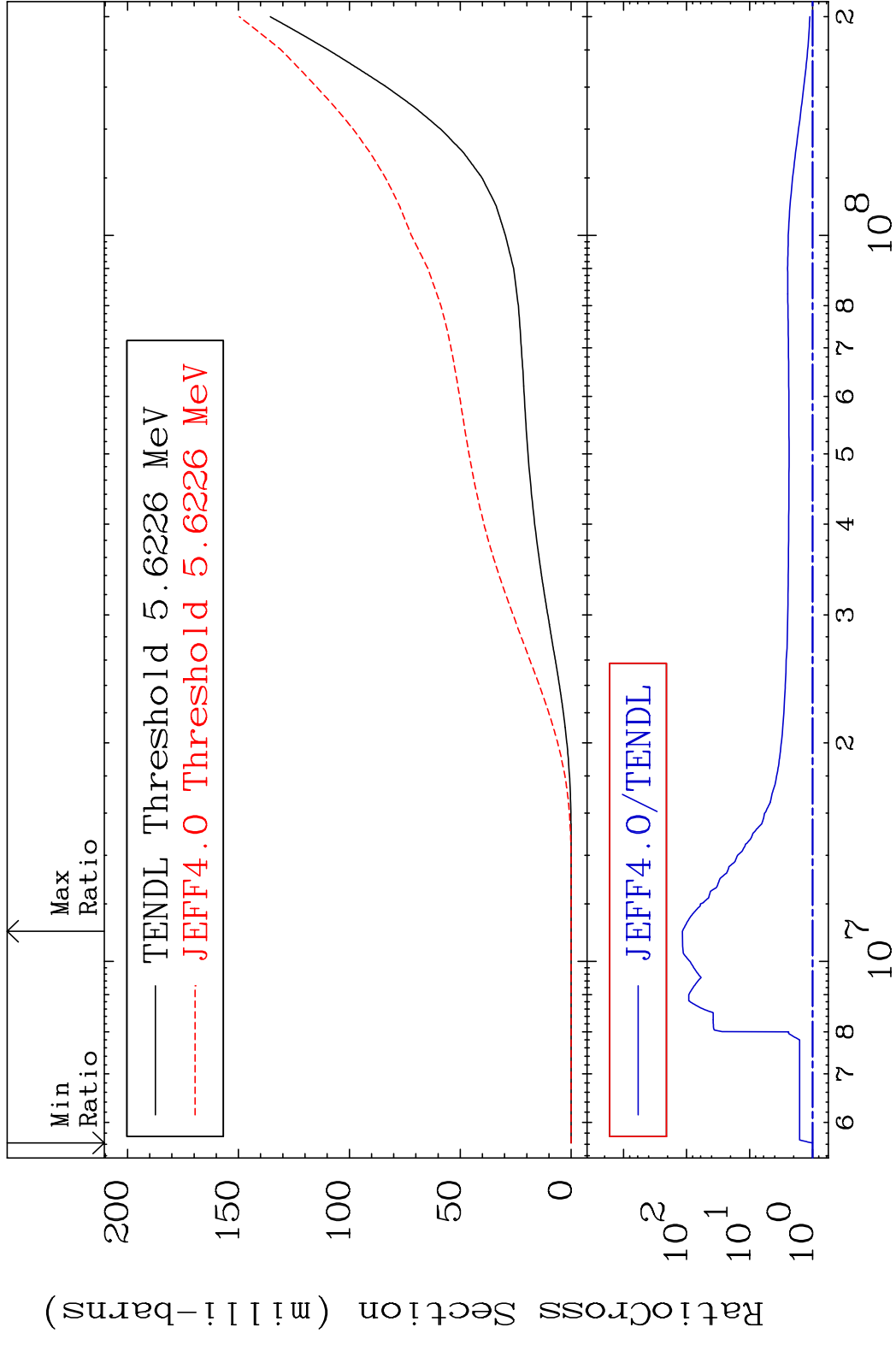


64

Incident Energy (eV)

65-Tb-159

MAT 6525 Tritium Production 65-Tb-159  
 Cross Section 0.000 To 9999. %



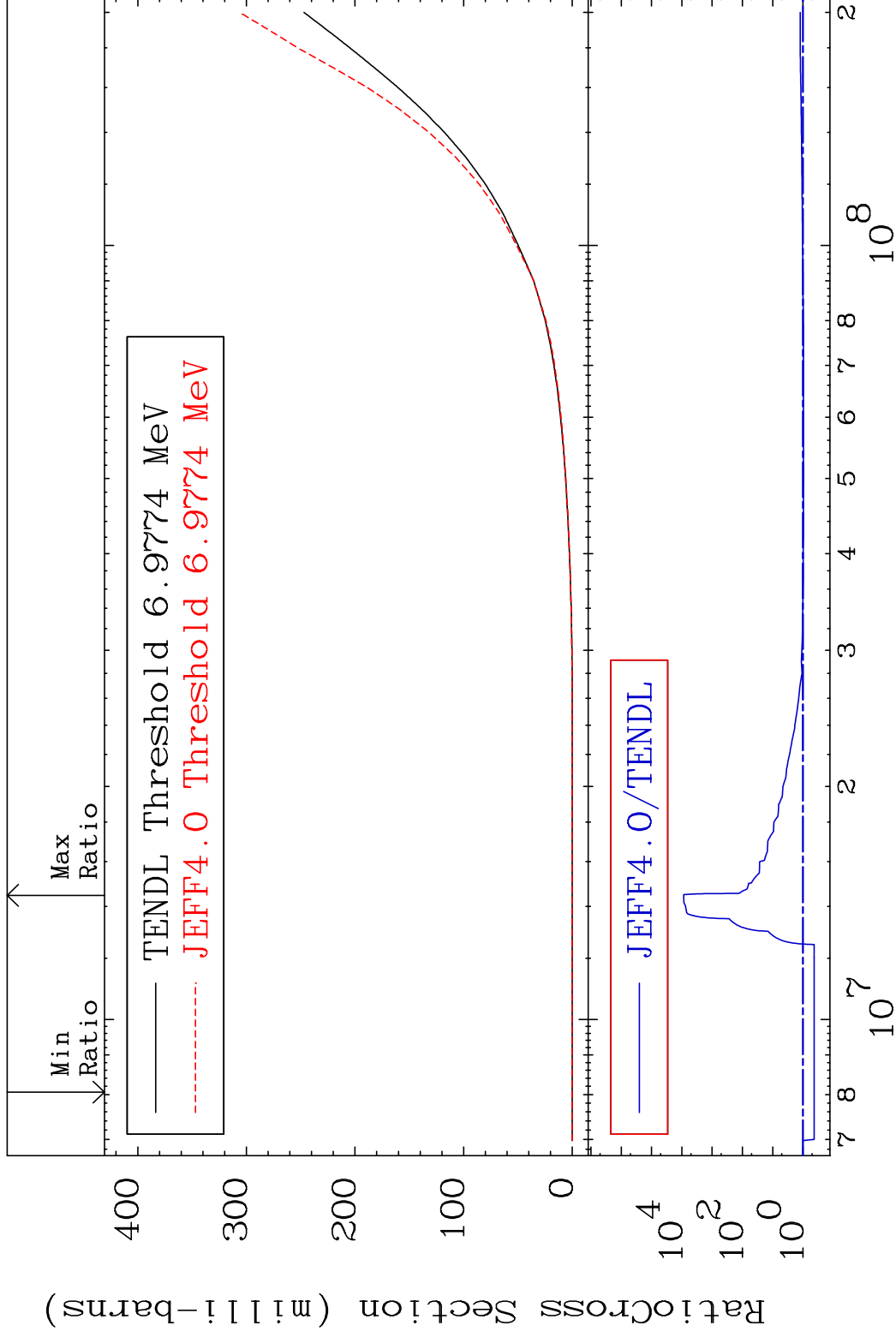
65 65-Tb-159

MAT 6525

He-3 Production

65-Tb-159

Cross Section -57.12 To 9999. %



66

Incident Energy (eV)

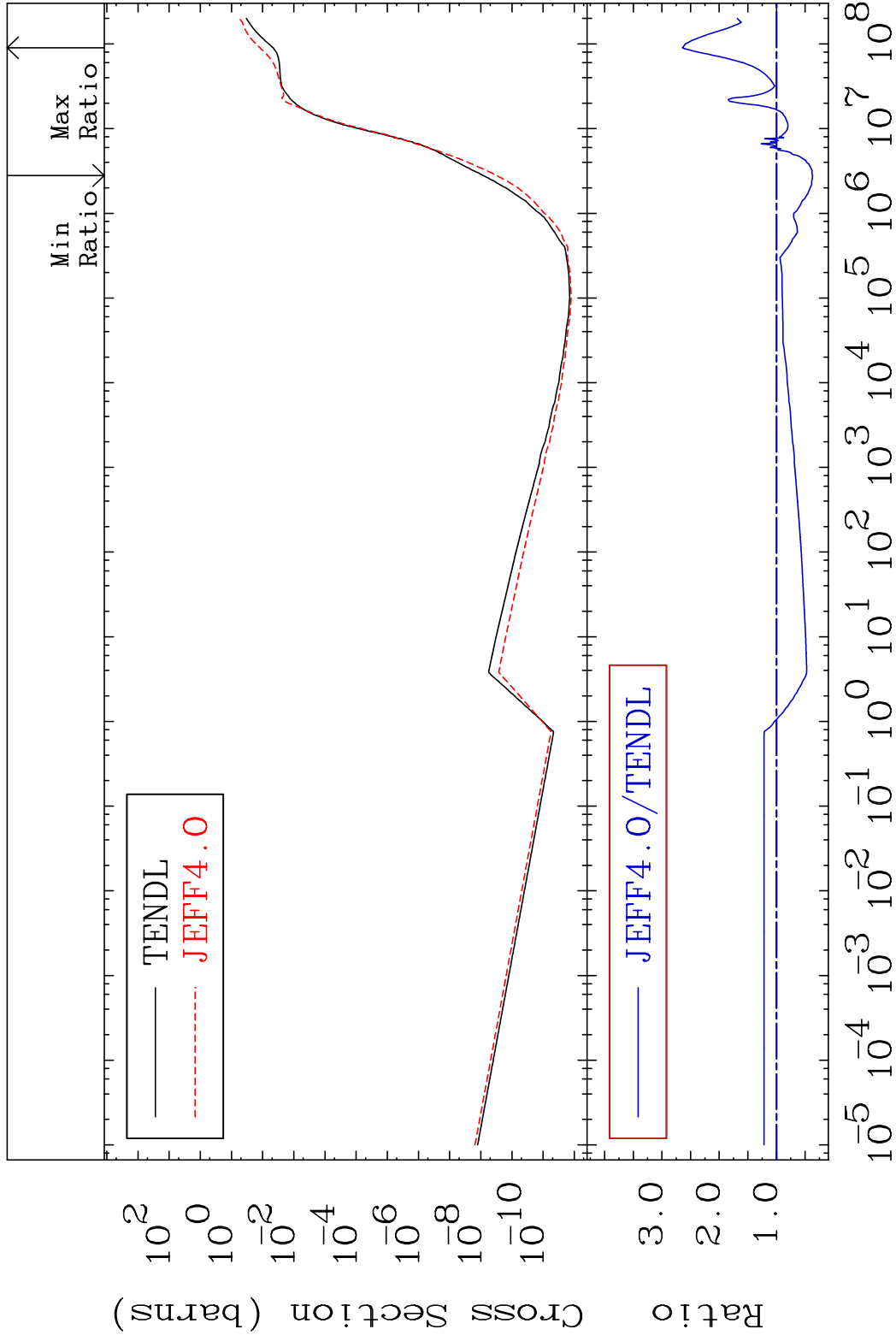
65-Tb-159

MAT 6525

He-4 Production

65-Tb-159

Cross Section -62.97 To 164.3 %

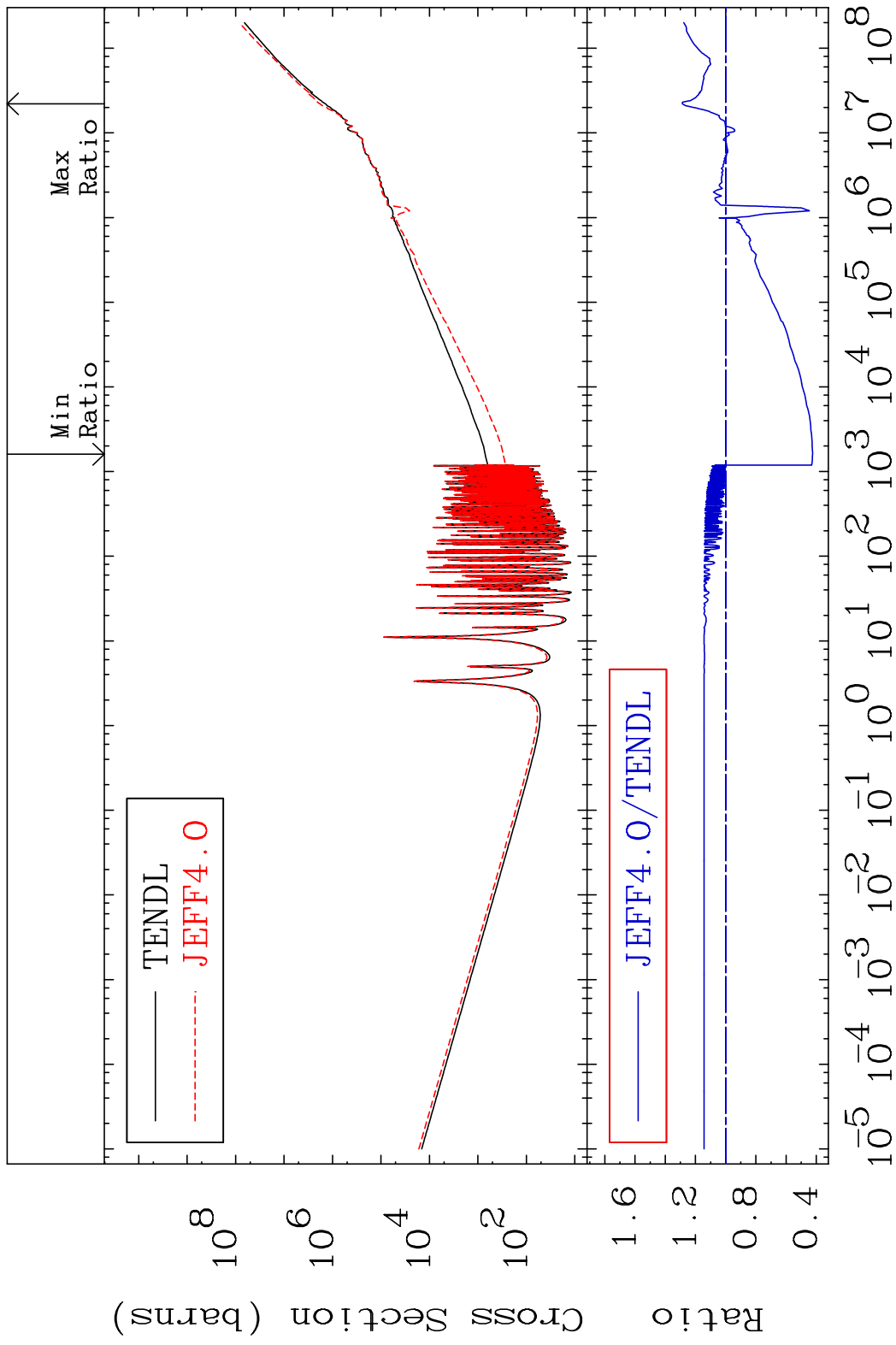


67

Incident Energy (eV)

65-Tb-159

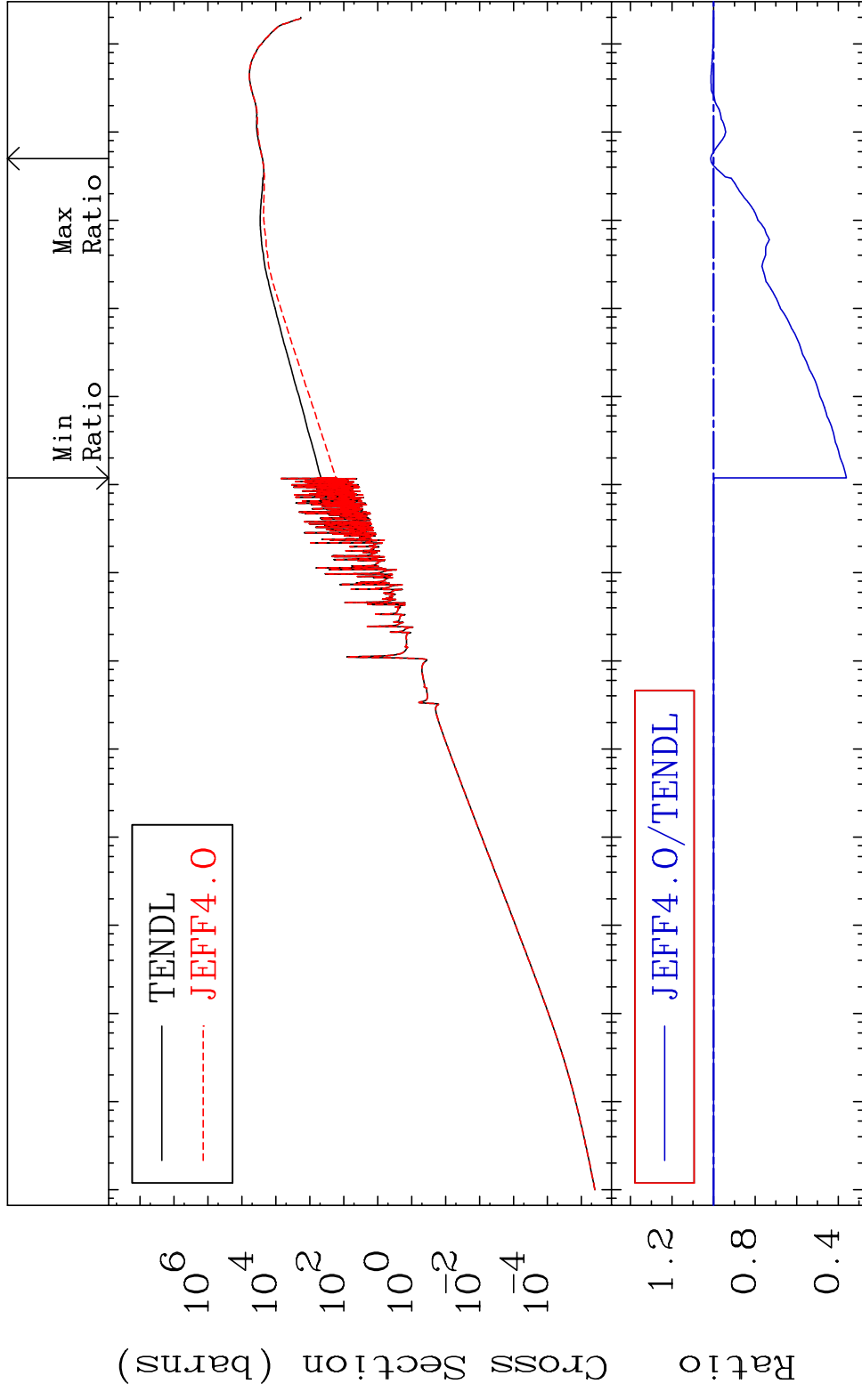
MAT 6525 Kerma total (eV-barns) 65-Tb-159  
 Cross Section -57.50 To 28.67 %



MAT 6525

Kerma elastic Cross Section -63.89 To 1.404 %

65-Tb-159

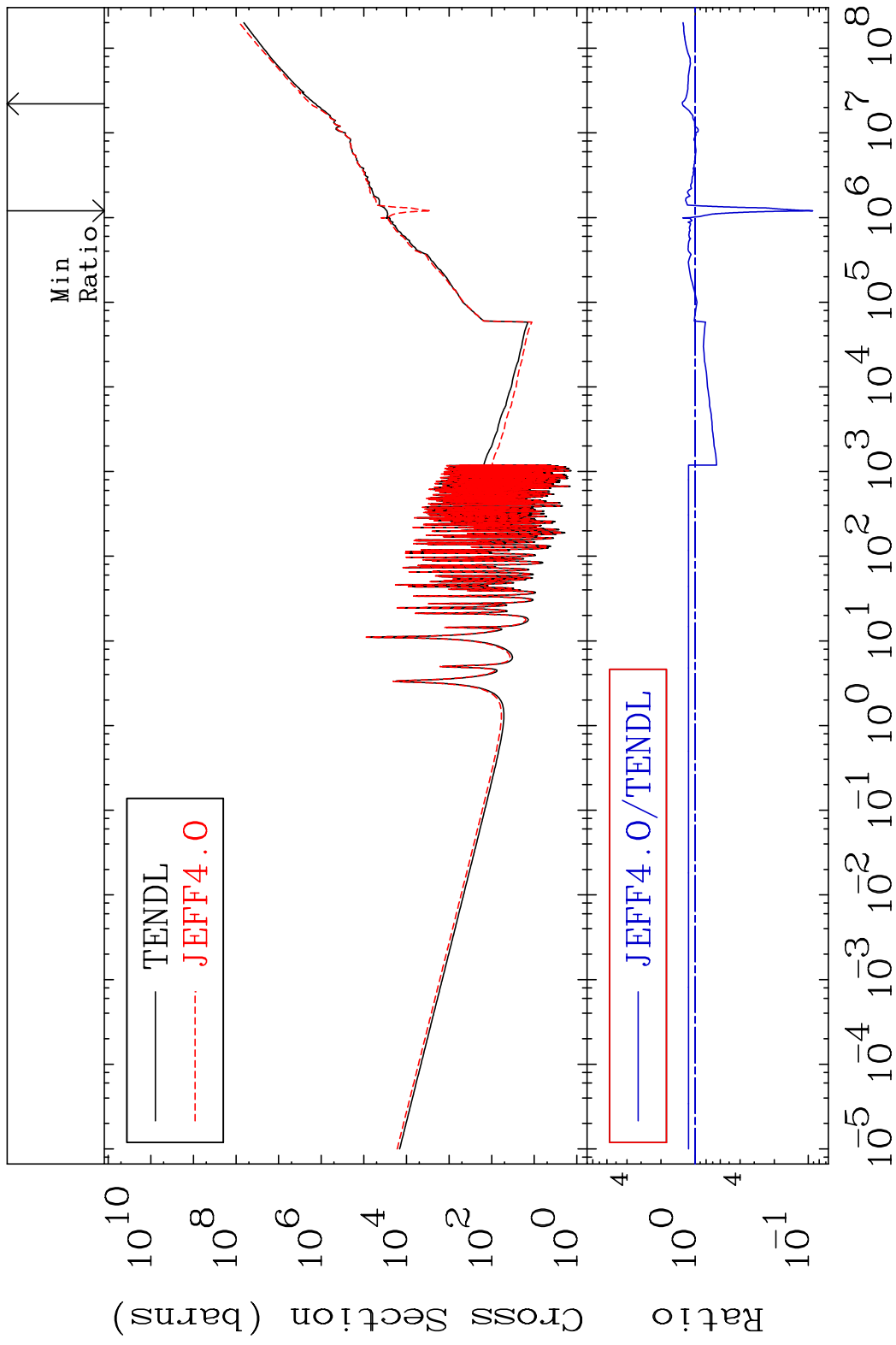


69

Incident Energy (eV)

65-Tb-159

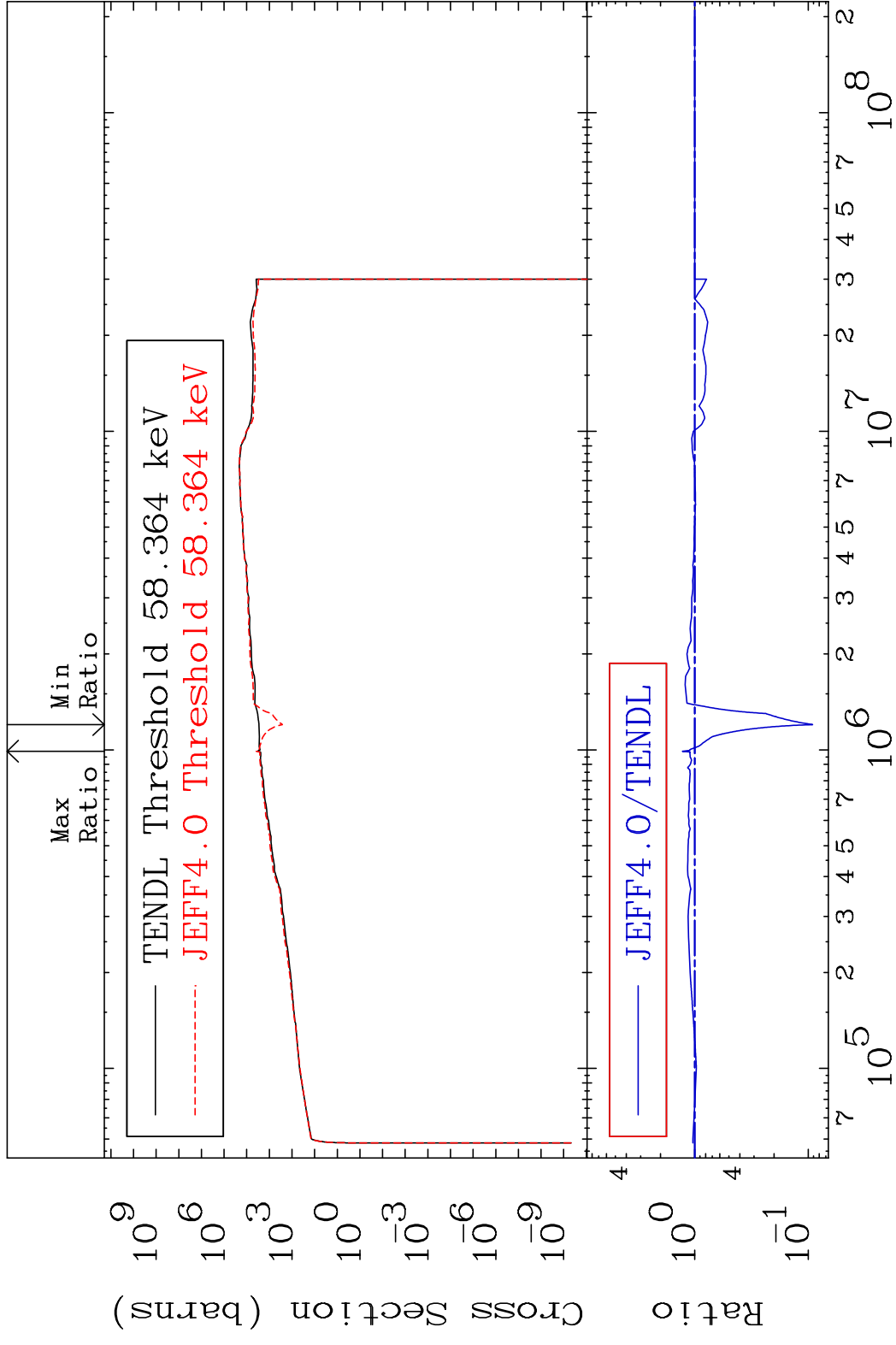
MAT 6525 Kerma non-elastic (all but mt2) 65-Tb-159  
 Cross Section -90.84 To 29.57 %



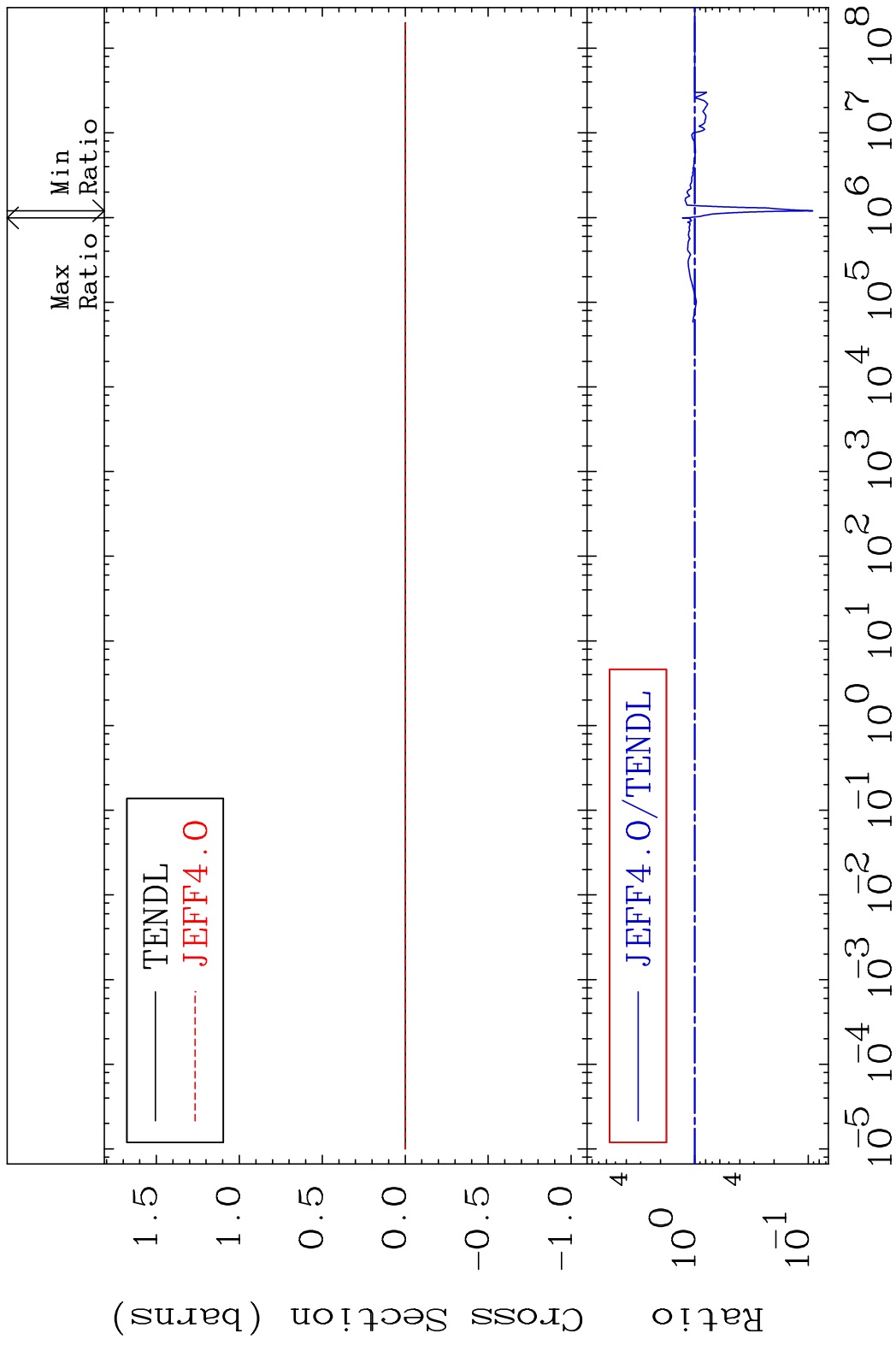
70 Incident Energy (eV) 65-Tb-159

MAT 6525

Kerma inelastic (mt51-91) 65-Tb-159  
Cross Section -90.84 To 28.49 %

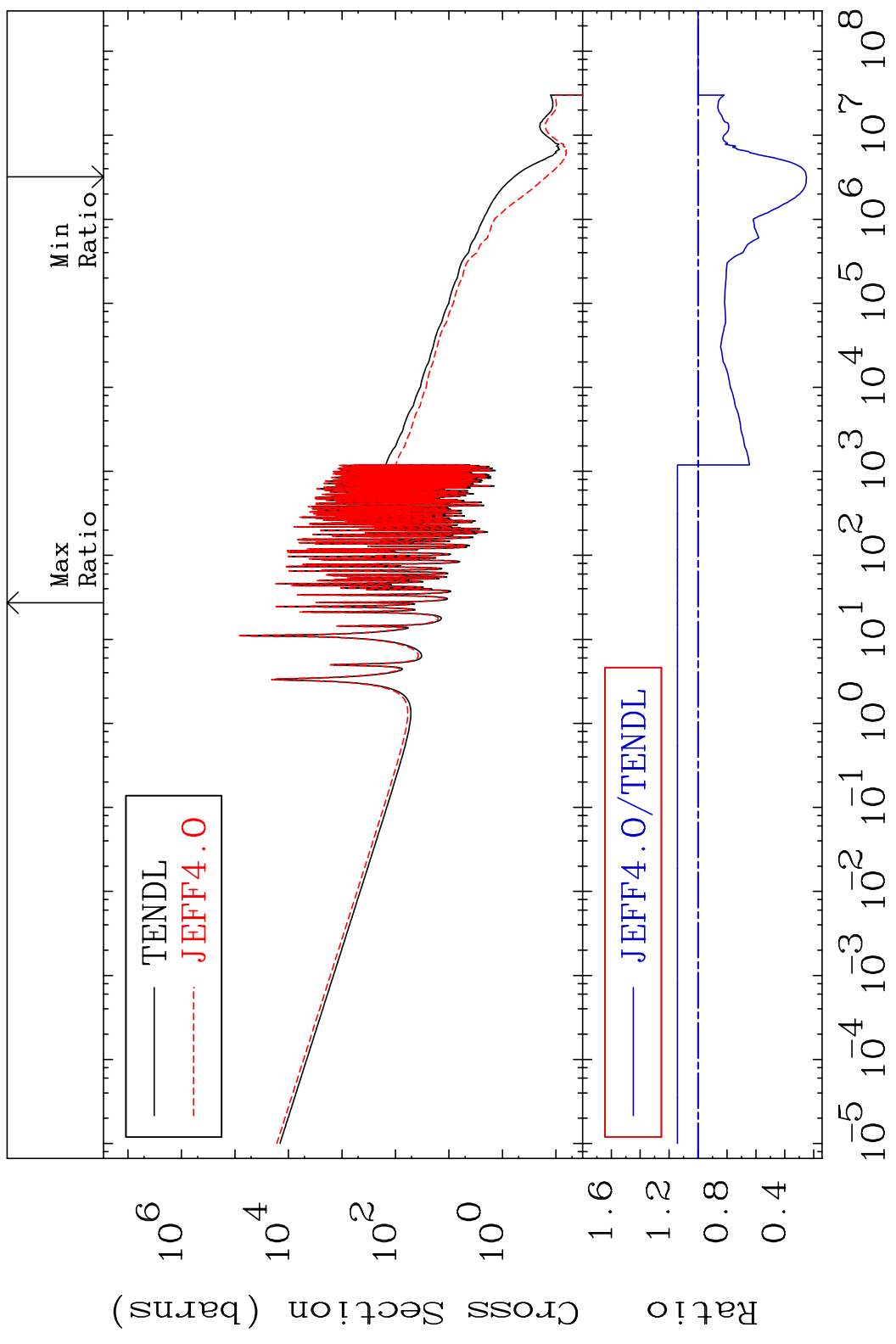


MAT 6525 Kerma fission (mt18 or mt19-20-21-38) 65-Tb-159  
 Cross Section -90.84 To 28.49 %



MAT 6525

Kerma capture (mt102) 65-Tb-159  
Cross Section -74.91 To 14.43 %



73

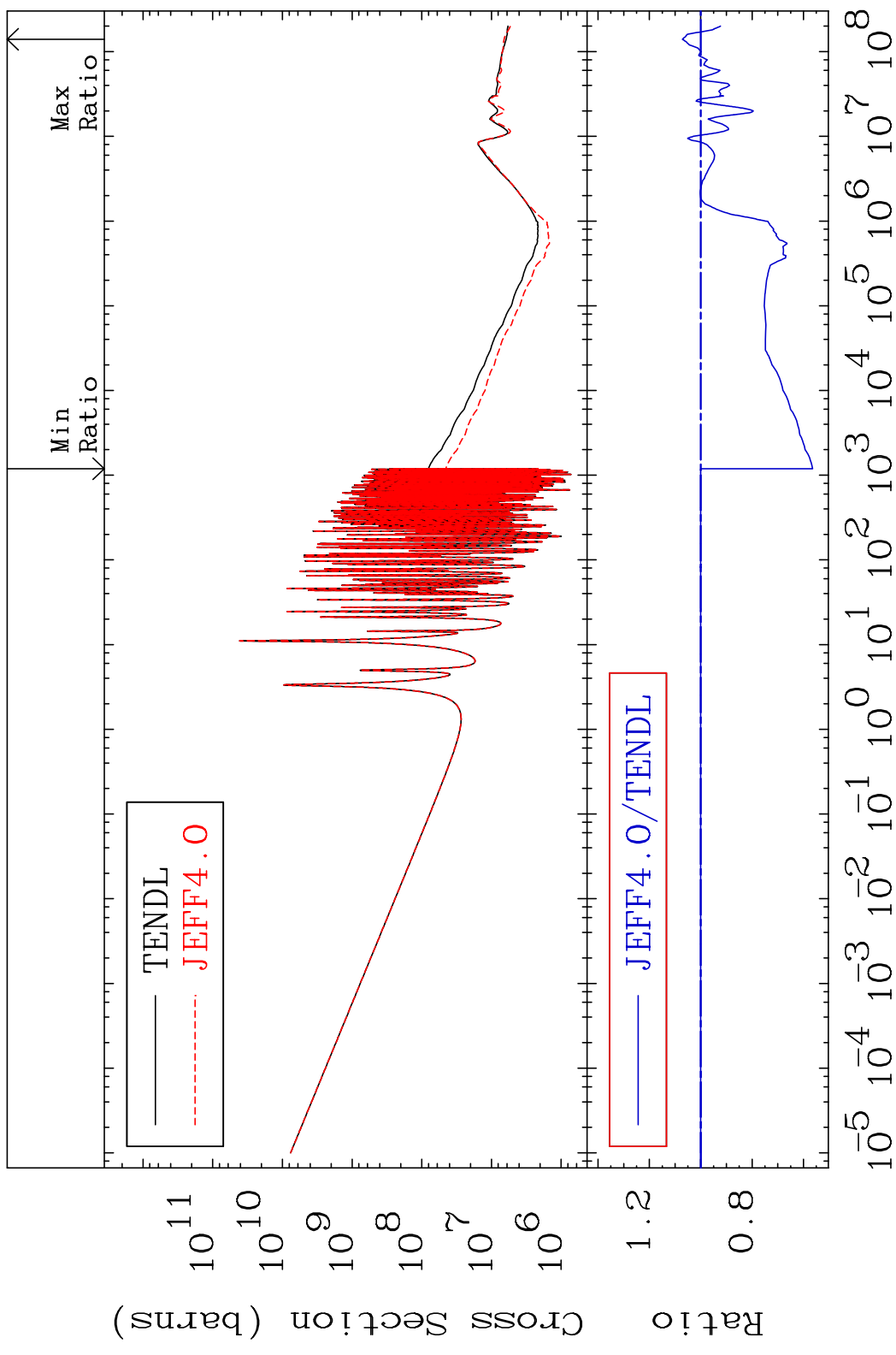
Incident Energy (eV) 65-Tb-159

MAT 6525

Total photon (eV-barns)

65-Tb-159

Cross Section -43.55 To 7.161 %

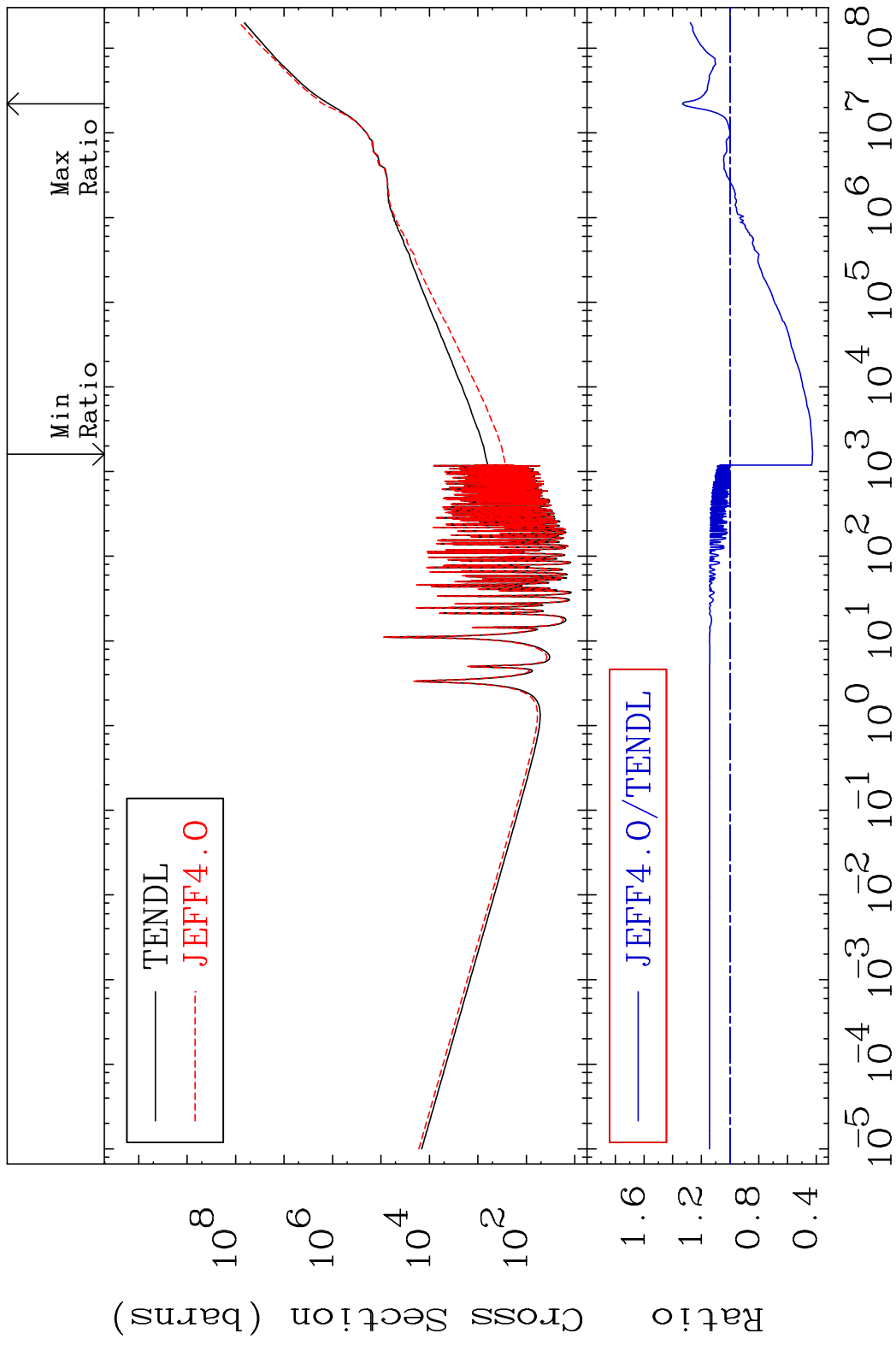


74

Incident Energy (eV)

65-Tb-159

MAT 6525 Total kinematic kerma (high limit) 65-Tb-159  
 Cross Section -57.50 To 33.26 %



75 Incident Energy (eV) 65-Tb-159

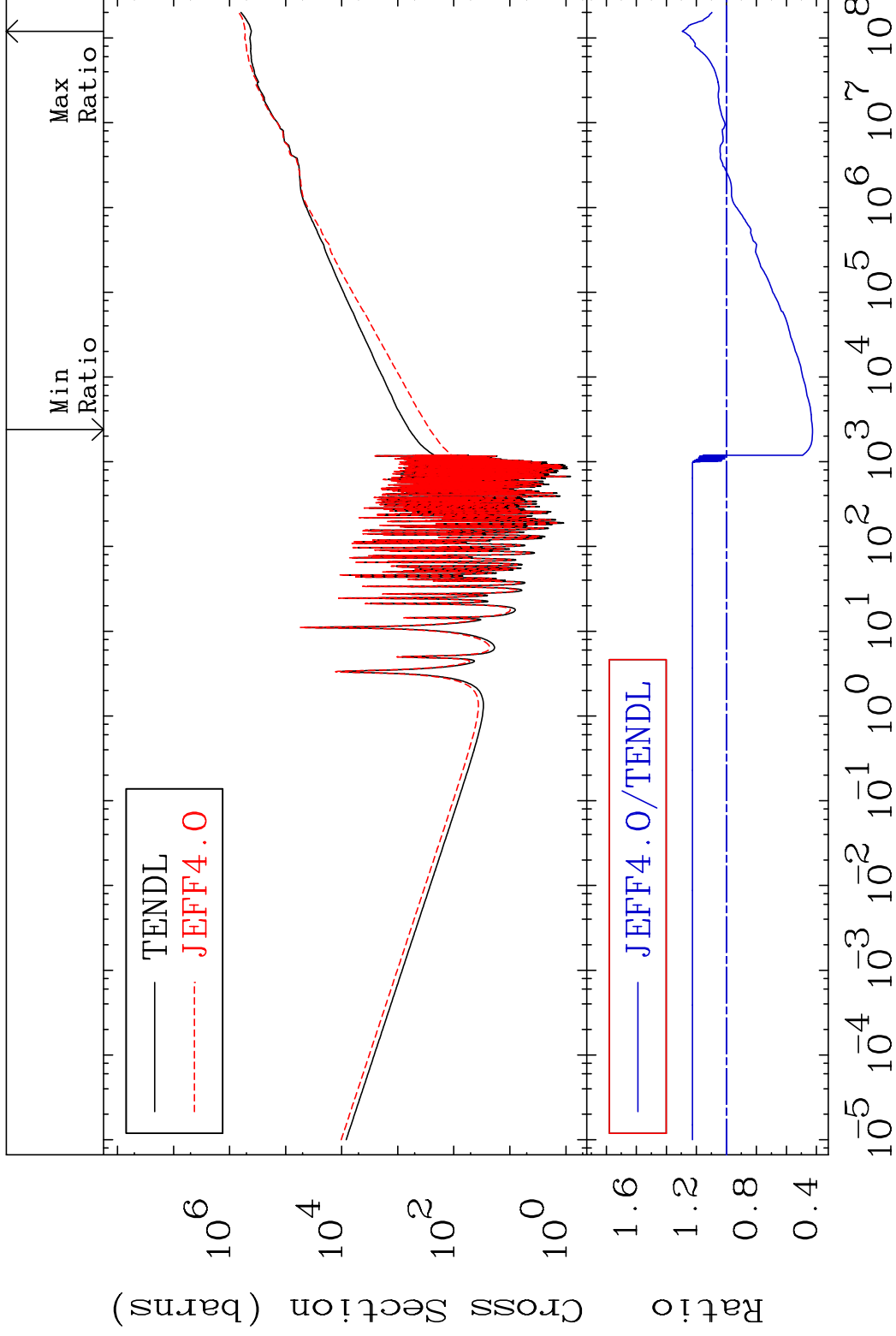
MAT 6525

Dpa total (eV-barns)

65-Tb-159

Cross Section

-57.37 To 29.47 %



76

Incident Energy (eV)

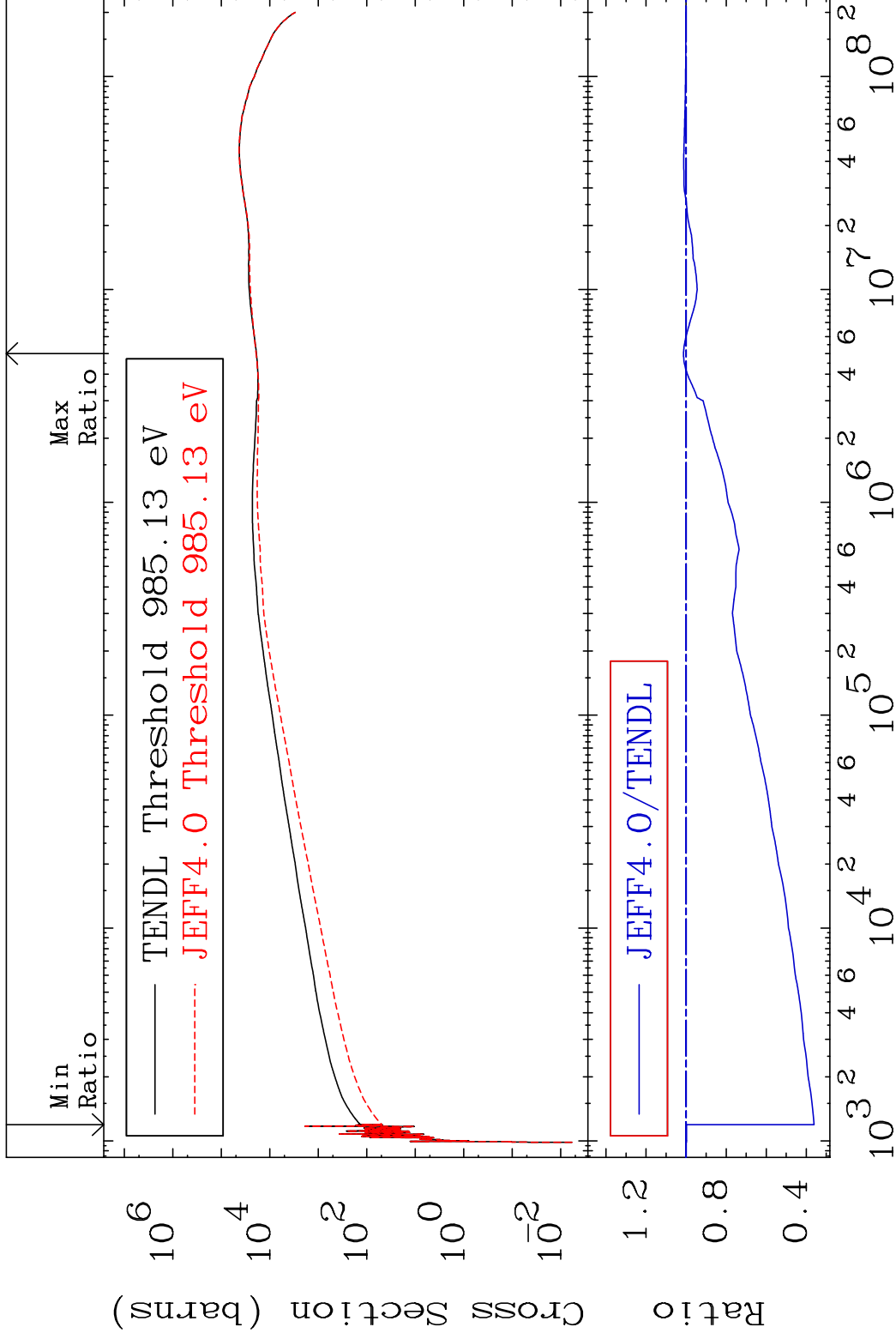
65-Tb-159

MAT 6525

Dpa elastic (mt2)

65-Tb-159

Cross Section -63.91 To 1.330 %



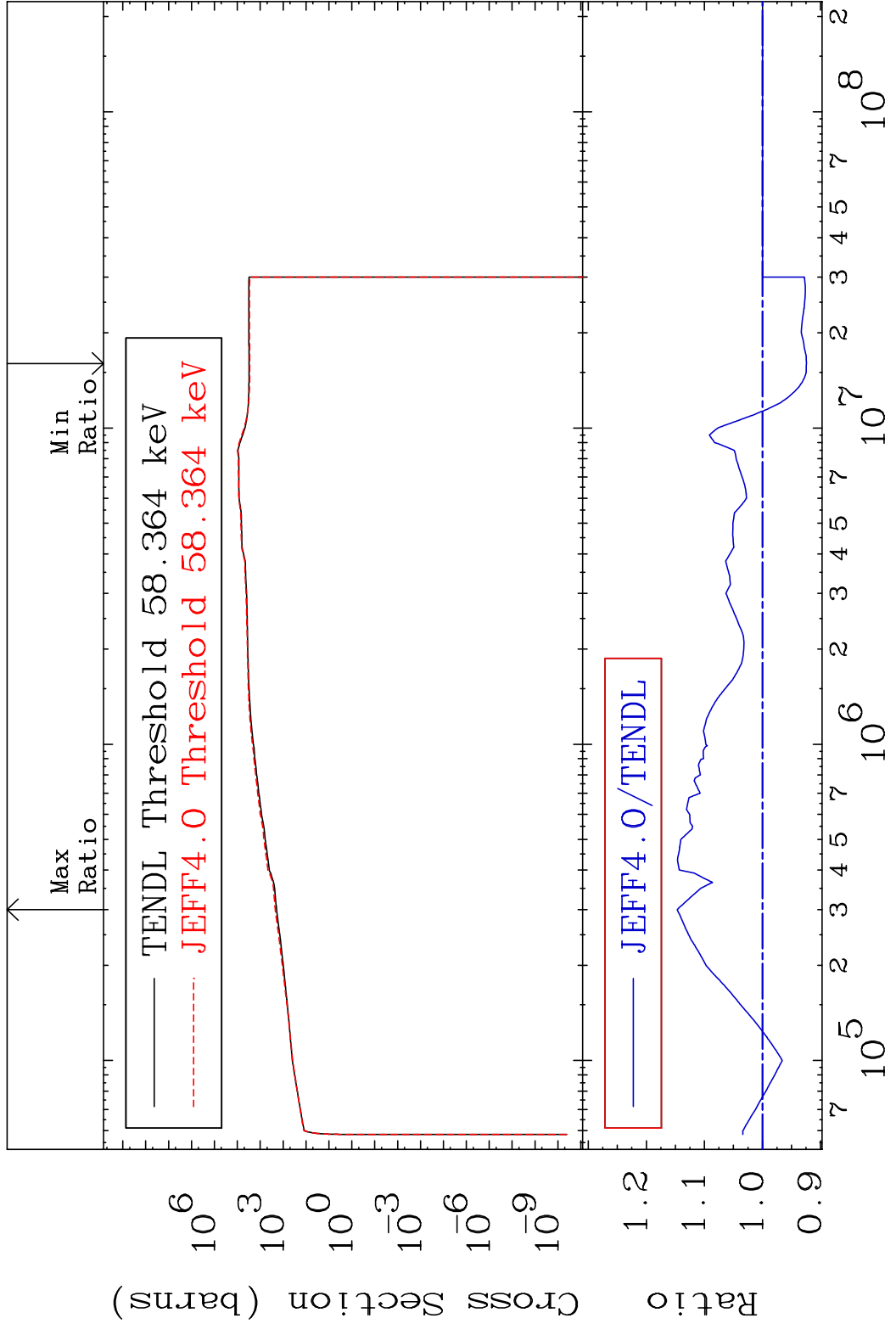
77

Incident Energy (eV)

65-Tb-159

MAT 6525

Dpa inelastic (mt51-91) 65-Tb-159  
Cross Section -7.566 To 14.69 %

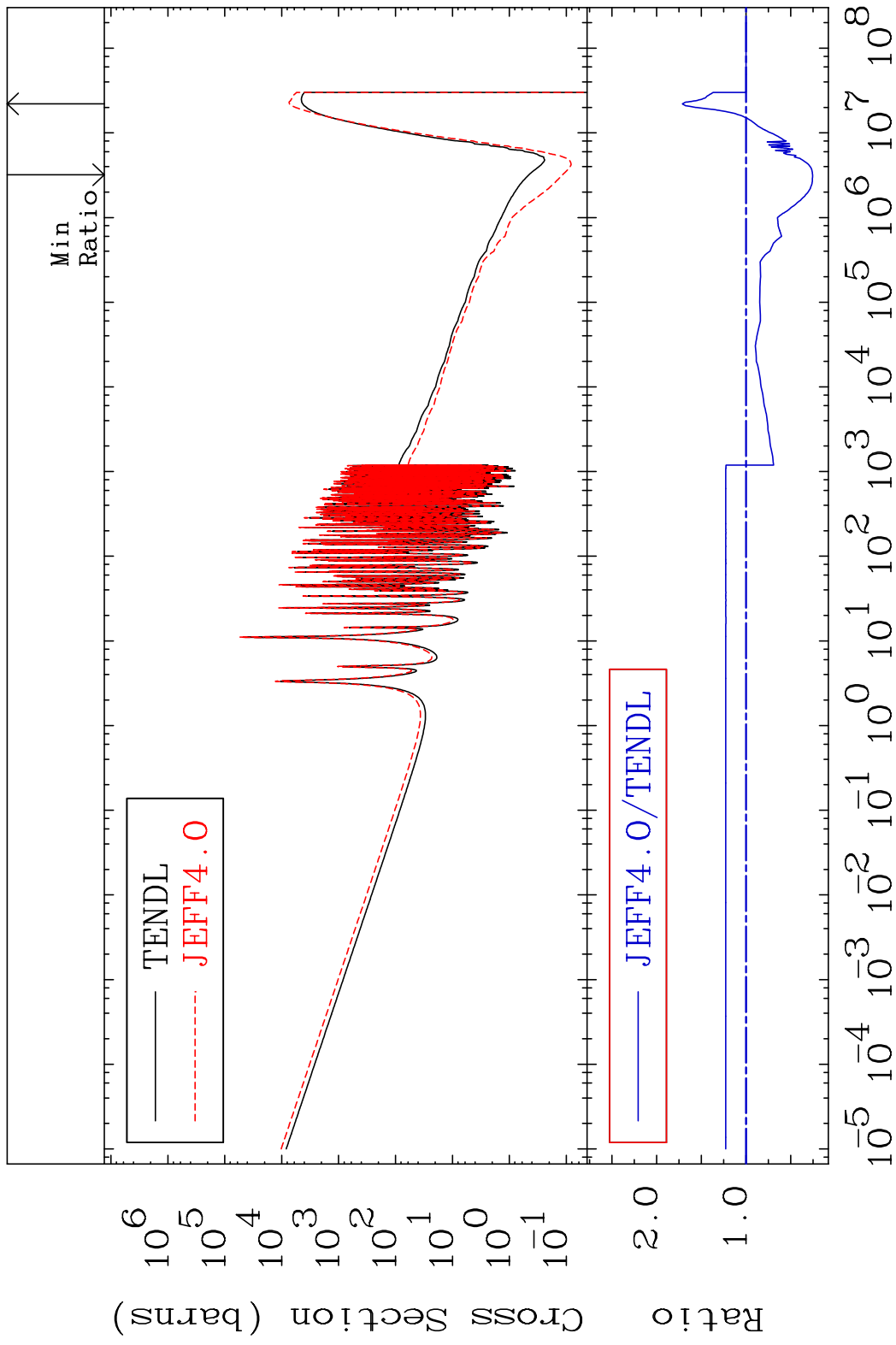


78

Incident Energy (eV)

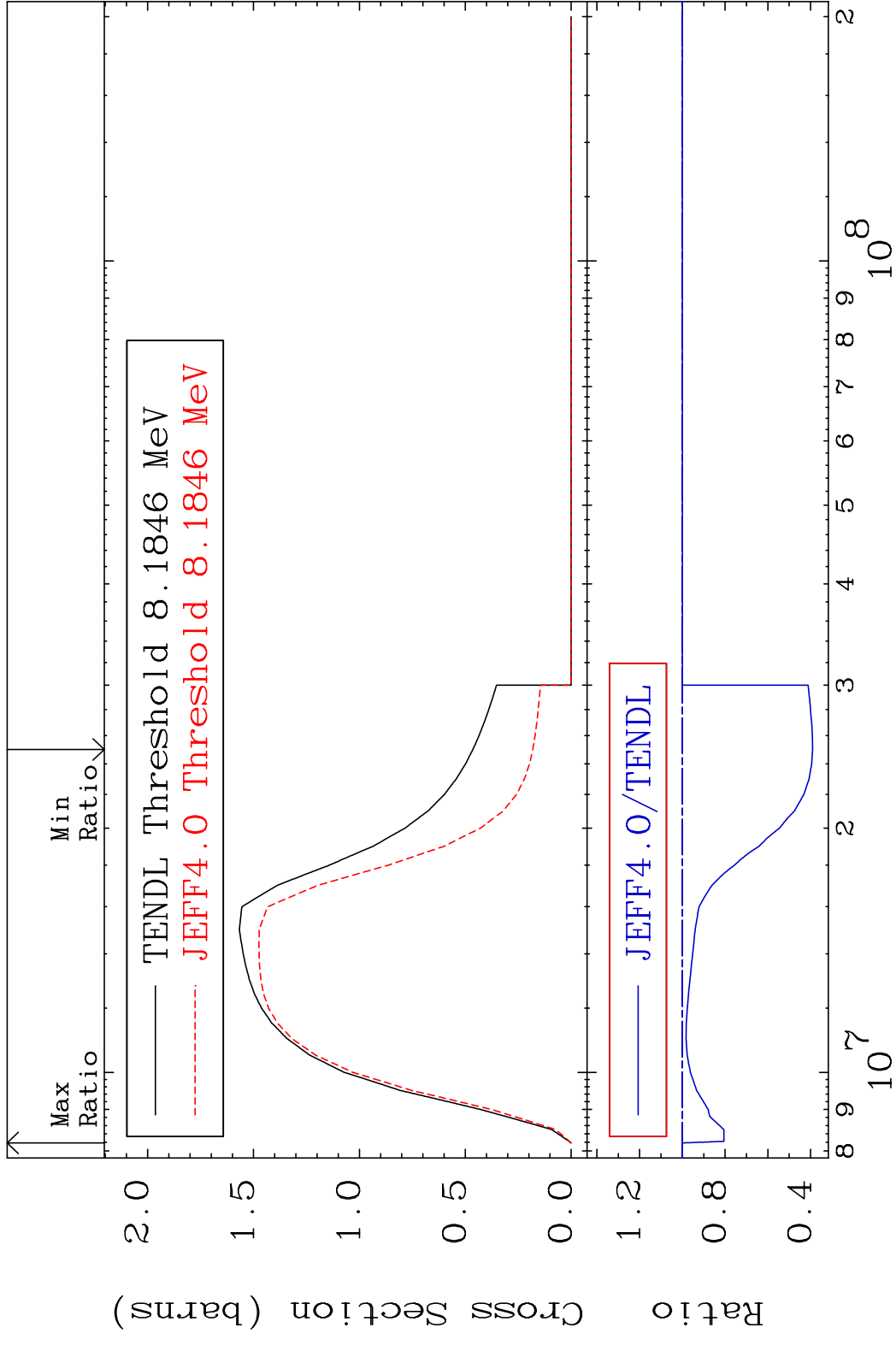
65-Tb-159

MAT 6525 Dpa disappearance (mt102 -120) 65-Tb-159  
Cross Section -74.45 To 71.25 %

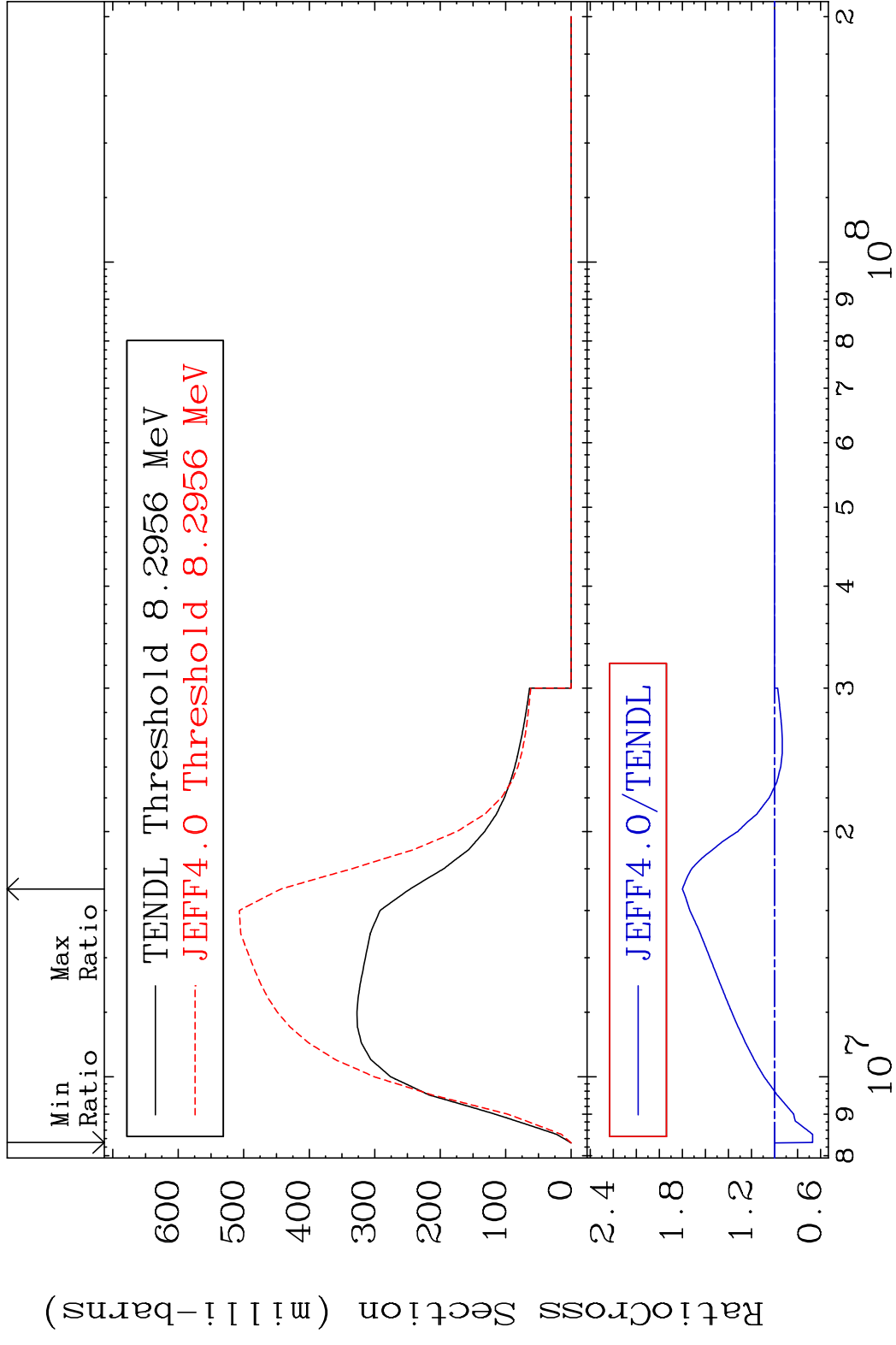


79 Incident Energy (eV) 65-Tb-159

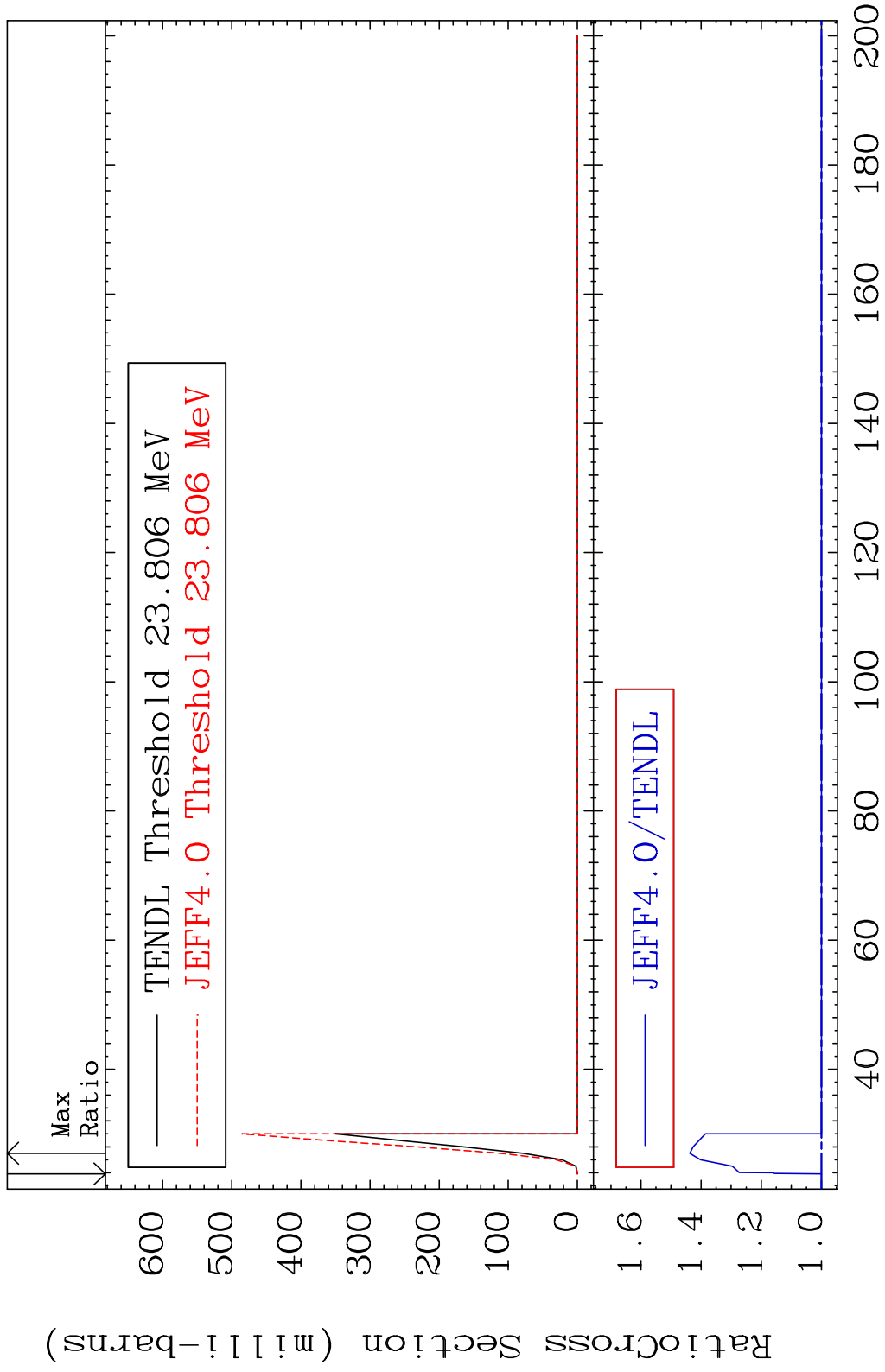
MAT 6525 (n,2n):65-Tb-158g 65-Tb-159  
 Radionuclide Production Cross Section 0.000 %

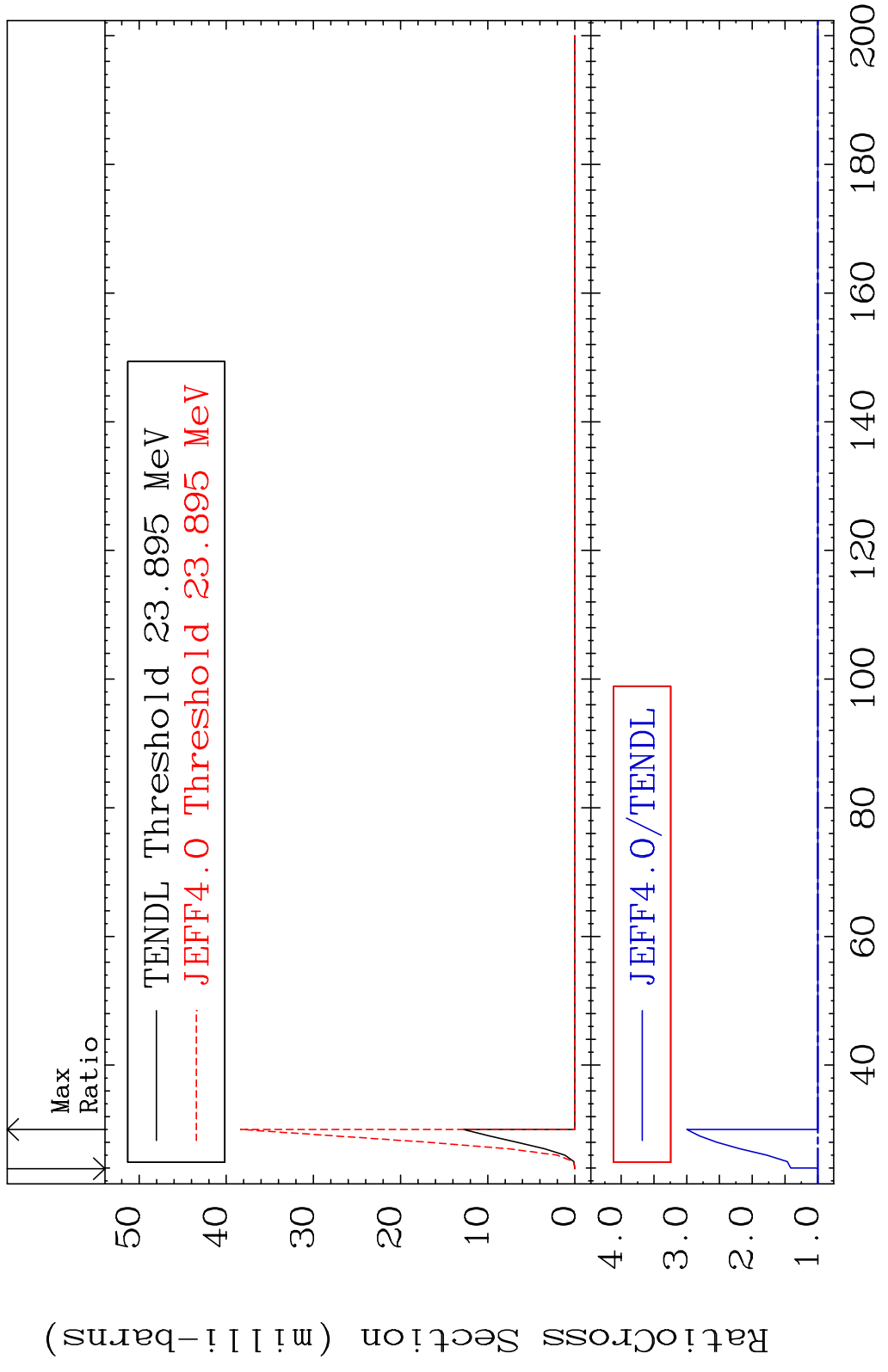


80 Incident Energy (eV) 65-Tb-159

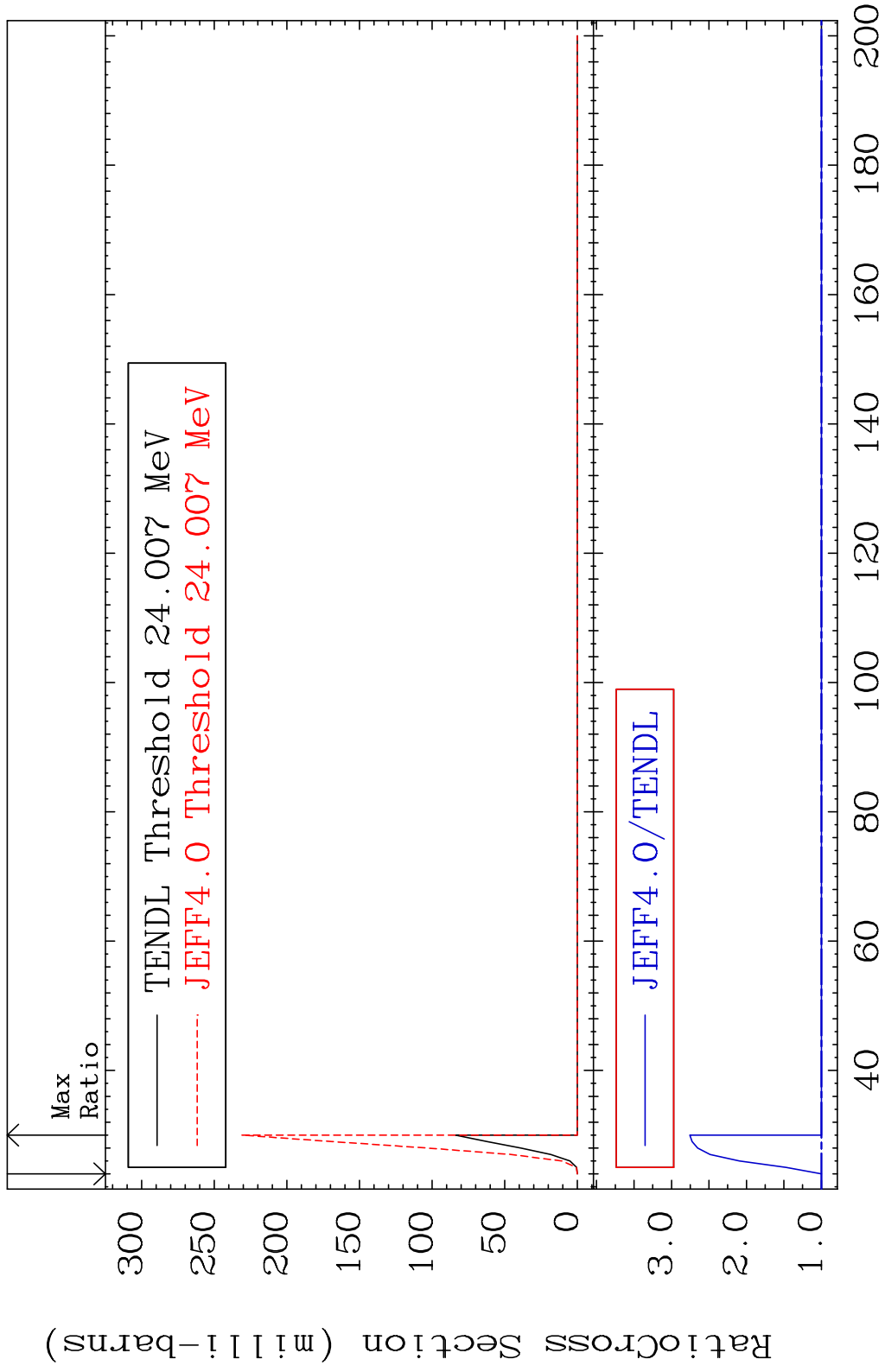


MAT 6525 (n,4n):65-Tb-156g 65-Tb-159  
 Radionuclide Production Cross Section 43.76 %

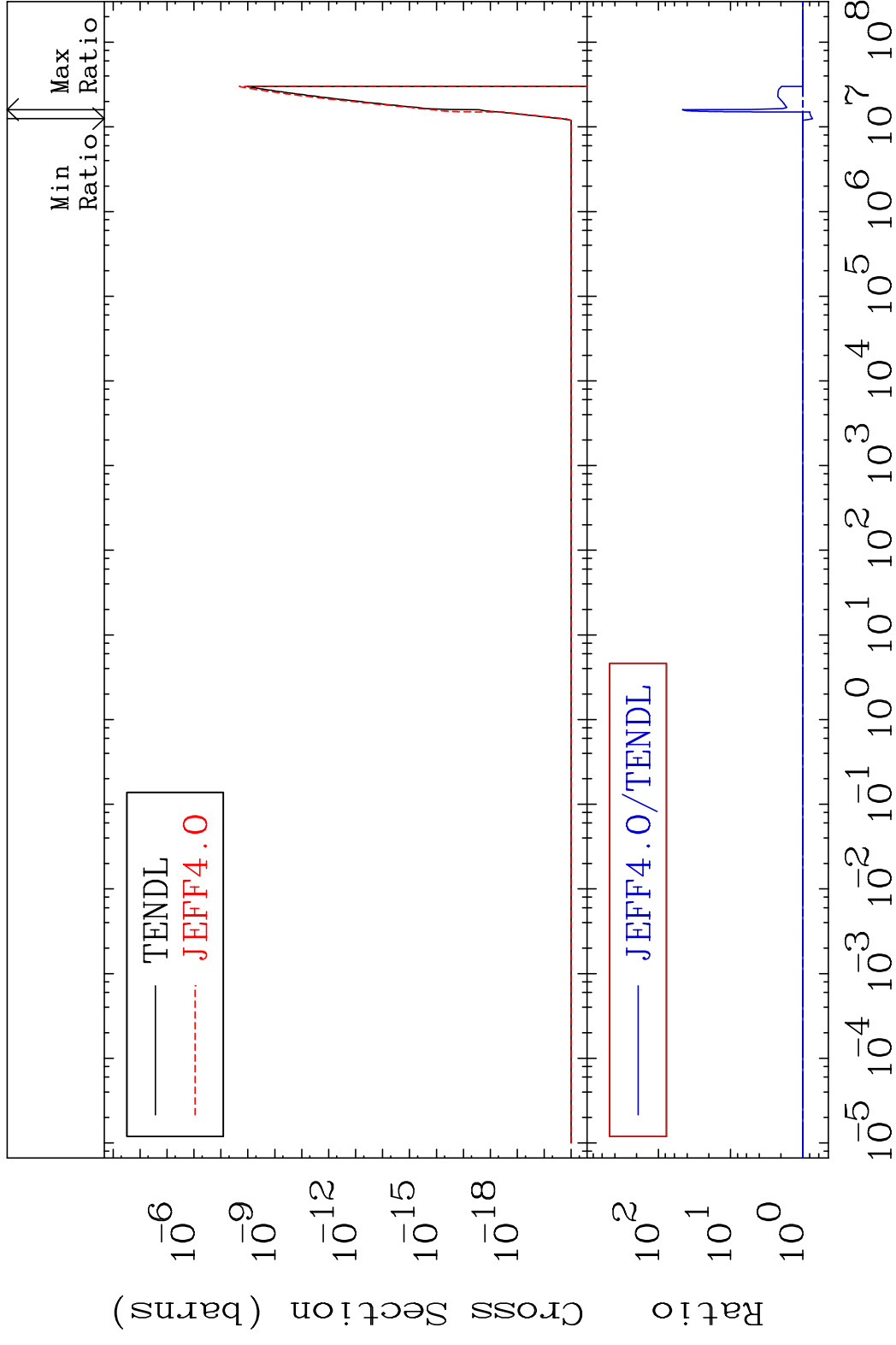




MAT 6525 (n, 4n):65-Tb-156m9 65-Tb-159  
 Radionuclide Production Cross Section 175.6 %



MAT 6525 (n,2α):61-Pm-152g 65-Tb-159  
 Radionuclide Production Cross Section to 4550. %



MAT 6525 (n, 2α):61-Pm-152m4 65-Tb-159  
 Radionuclide Production Cross Section 532.0 %

