

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

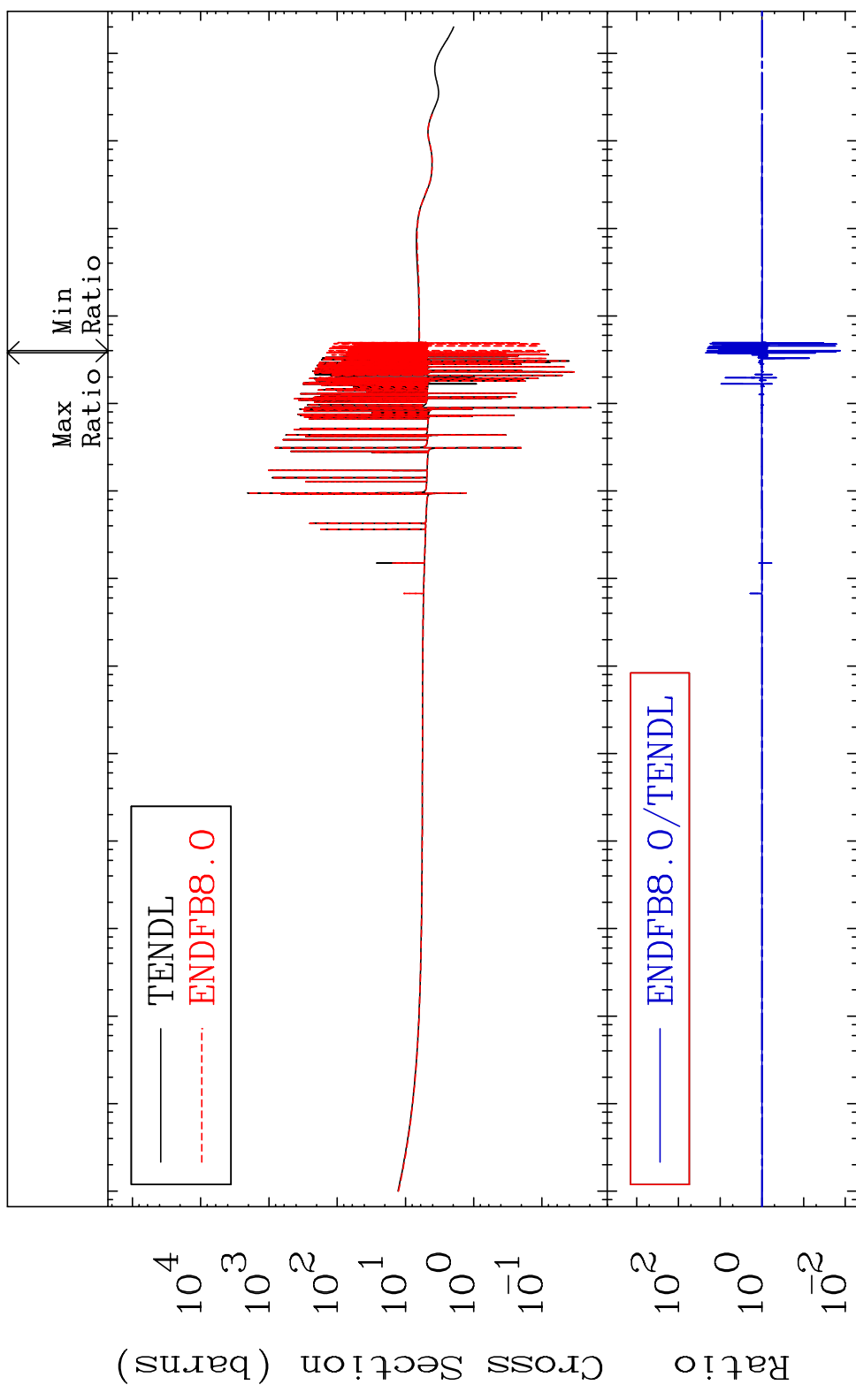
MAT 5049

Total

50-Sn-120

Cross Section

-98.69 To 2115. %



1

Incident Energy (eV)

50-Sn-120

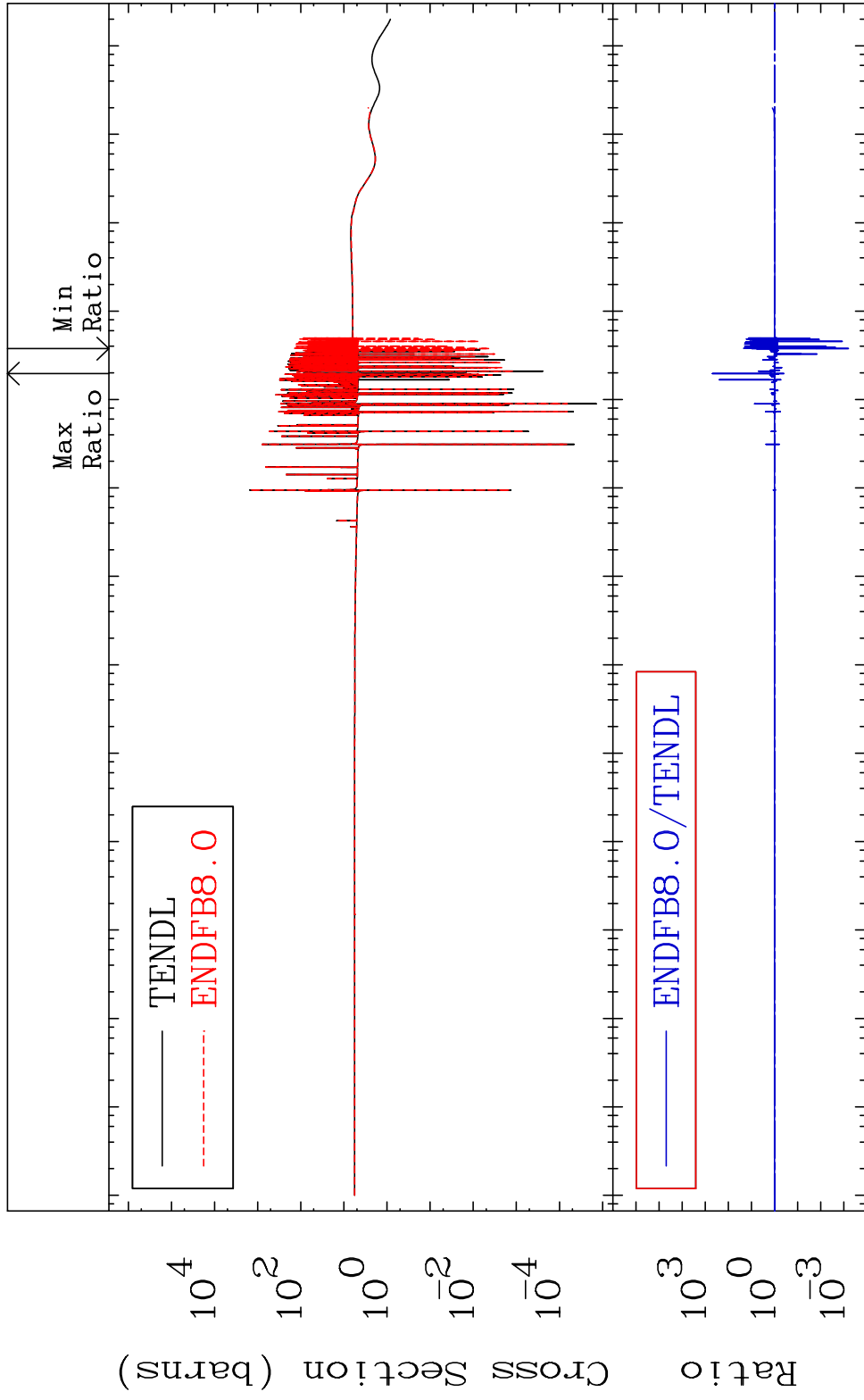
MAT 5049

Elastic

50-Sn-120

Cross Section

-99.94 To 9999. %



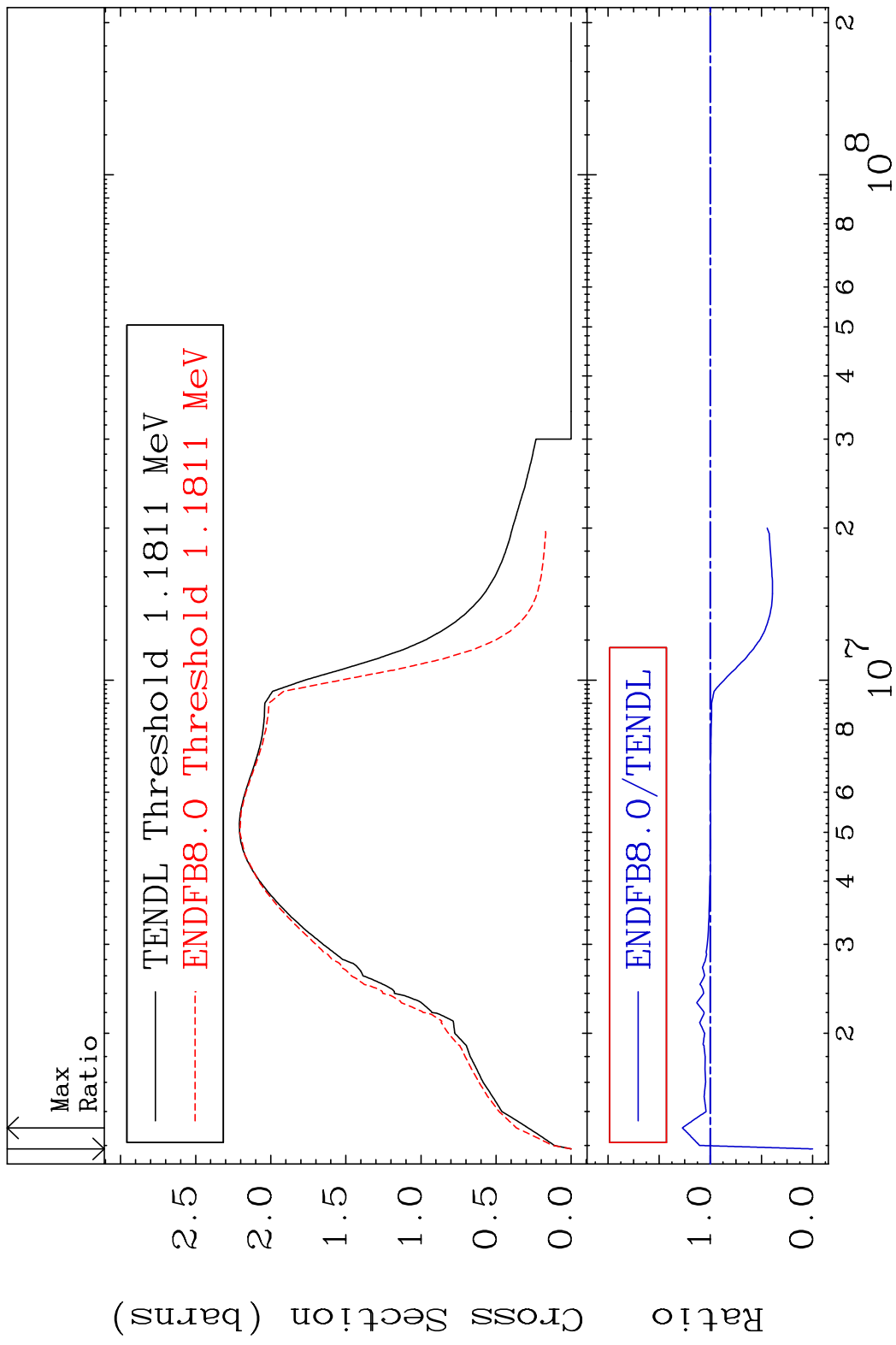
10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

2

Incident Energy (eV)

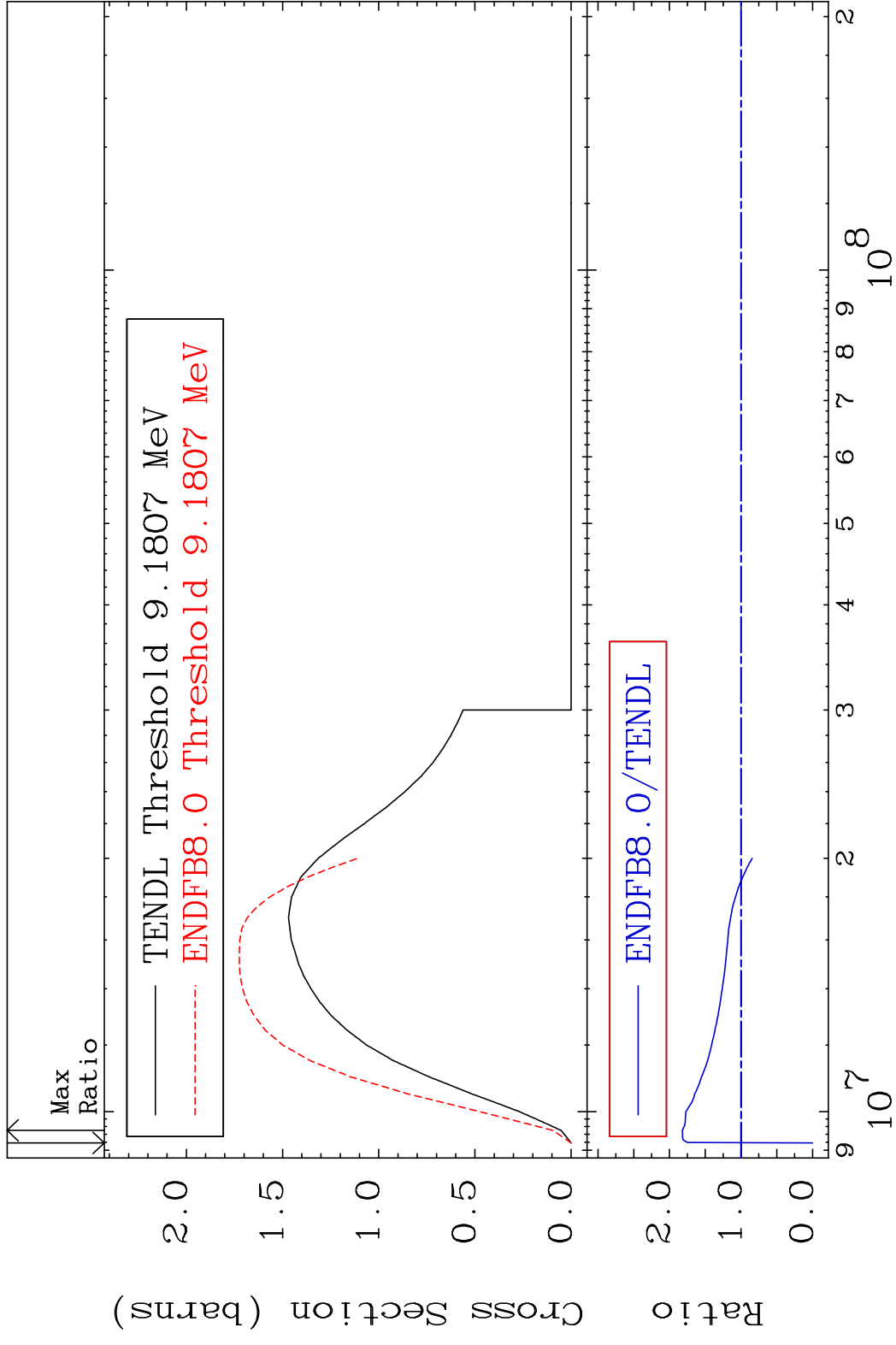
50-Sn-120

MAT 5049 Inelastic 50-Sn-120  
 Cross Section -100.0 To 27.33 %



3 Incident Energy (eV) 50-Sn-120

MAT 5049 (n,2n) 50-Sn-120  
 Cross Section -100.0 To 81.99 %



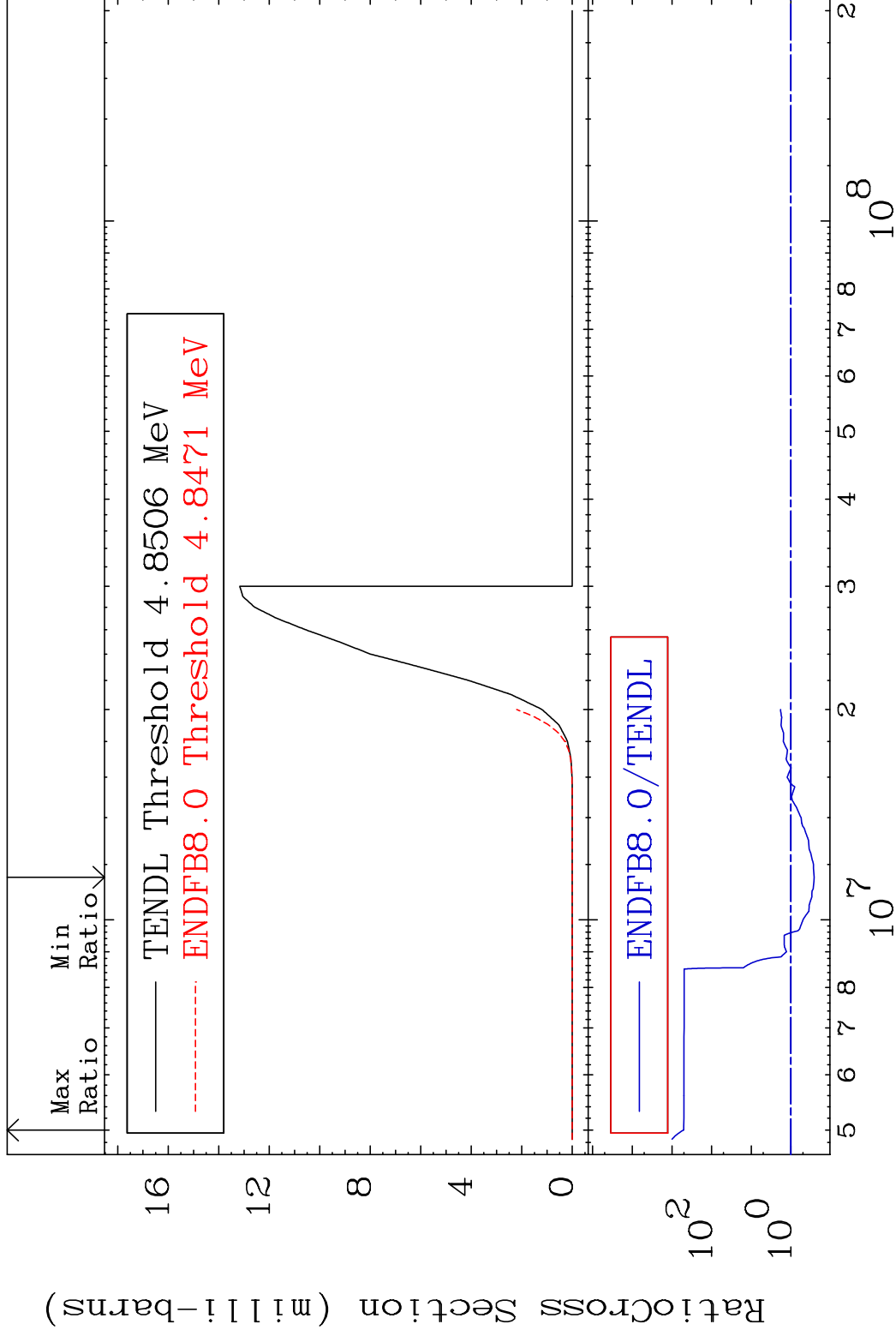
4 Incident Energy (eV) 50-Sn-120

MAT 5049

(n, n')  $\alpha$

50-Sn-120

Cross Section -73.95 To 9999. %



5

Incident Energy (eV)

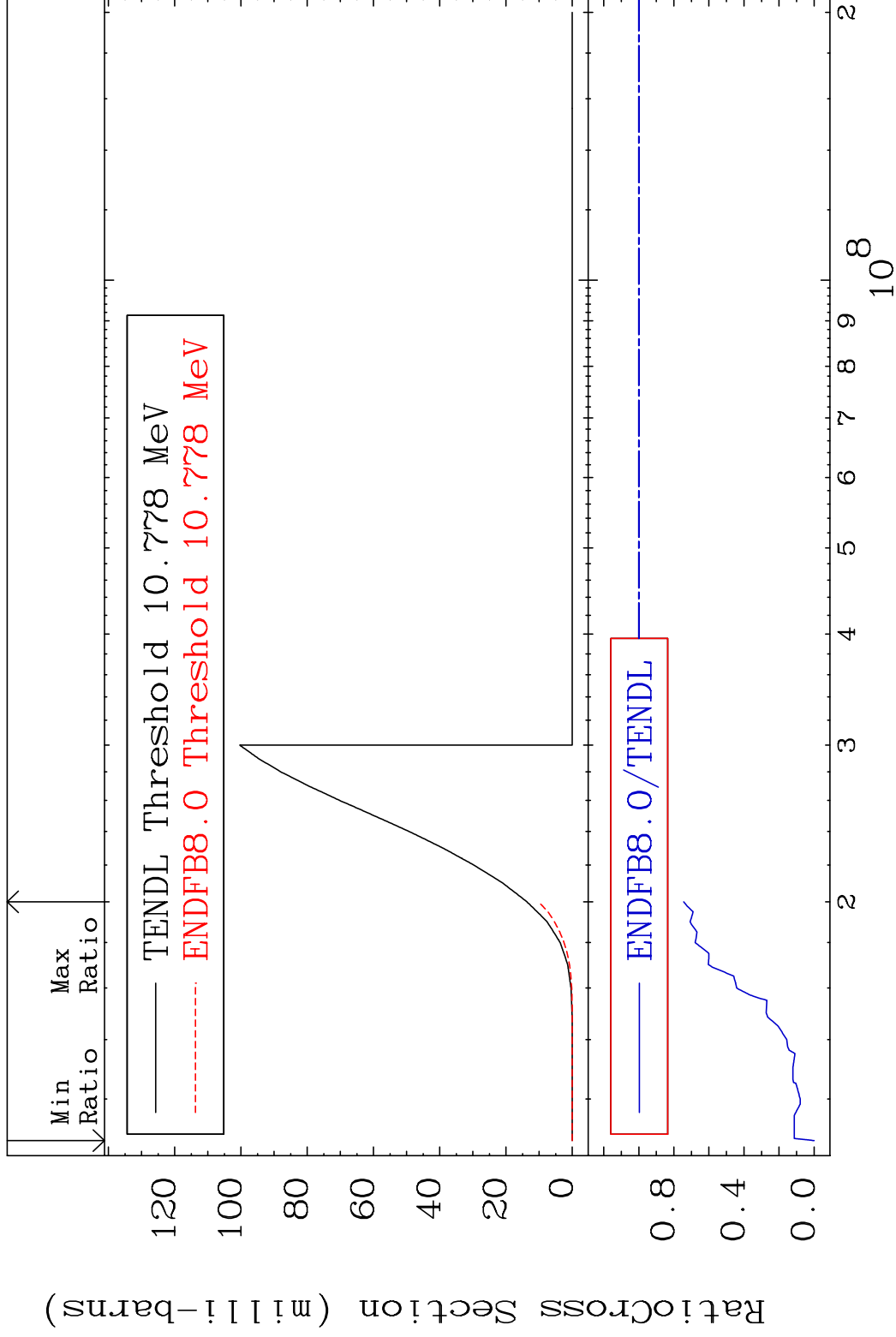
50-Sn-120

MAT 5049

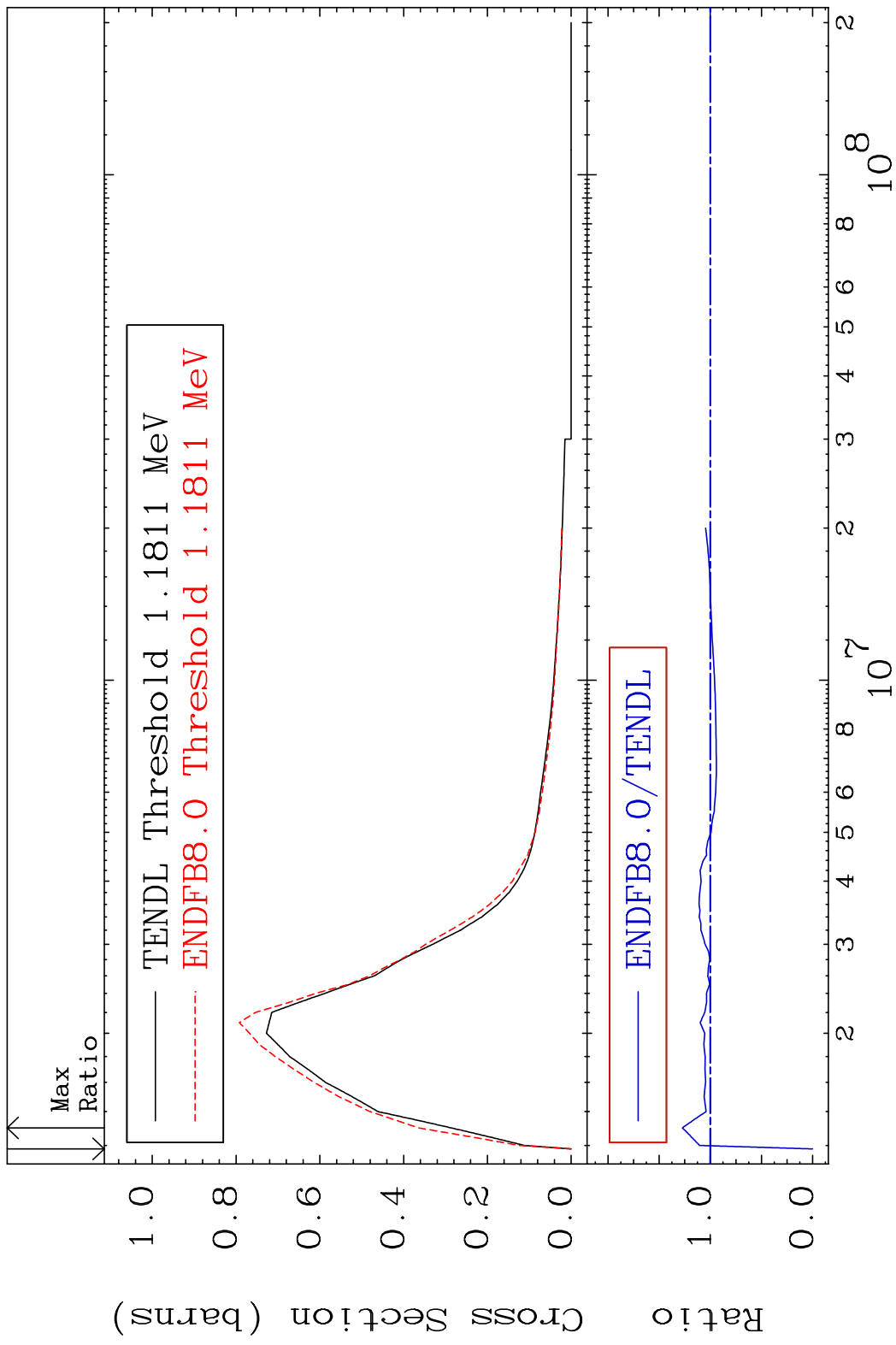
(n, n') p

50-Sn-120

Cross Section -100.0 To -25.59%

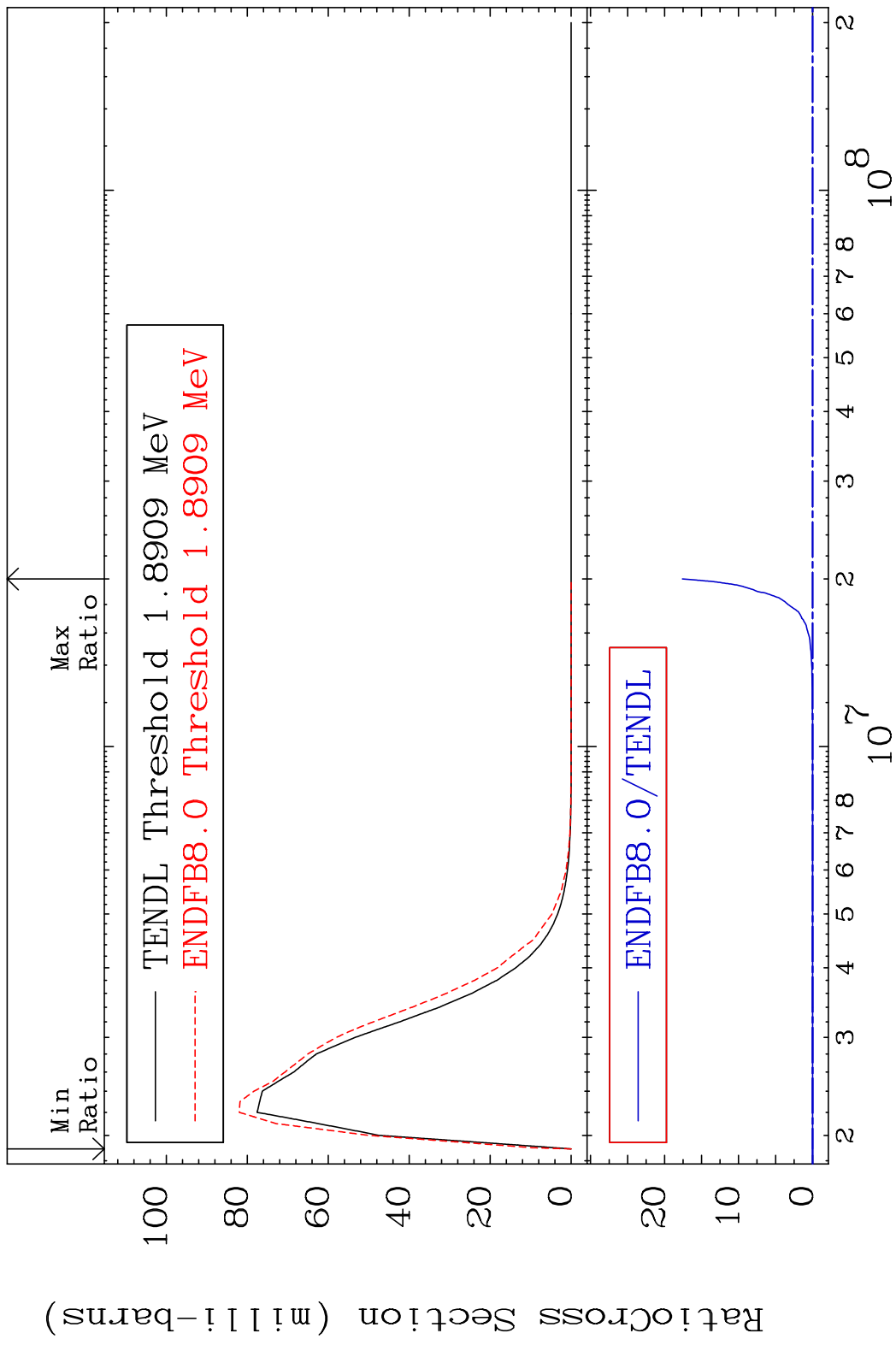


MAT 5049 MT= 51 (n, n') Level 50-Sn-120  
 Cross Section -100.0 To 27.33 %



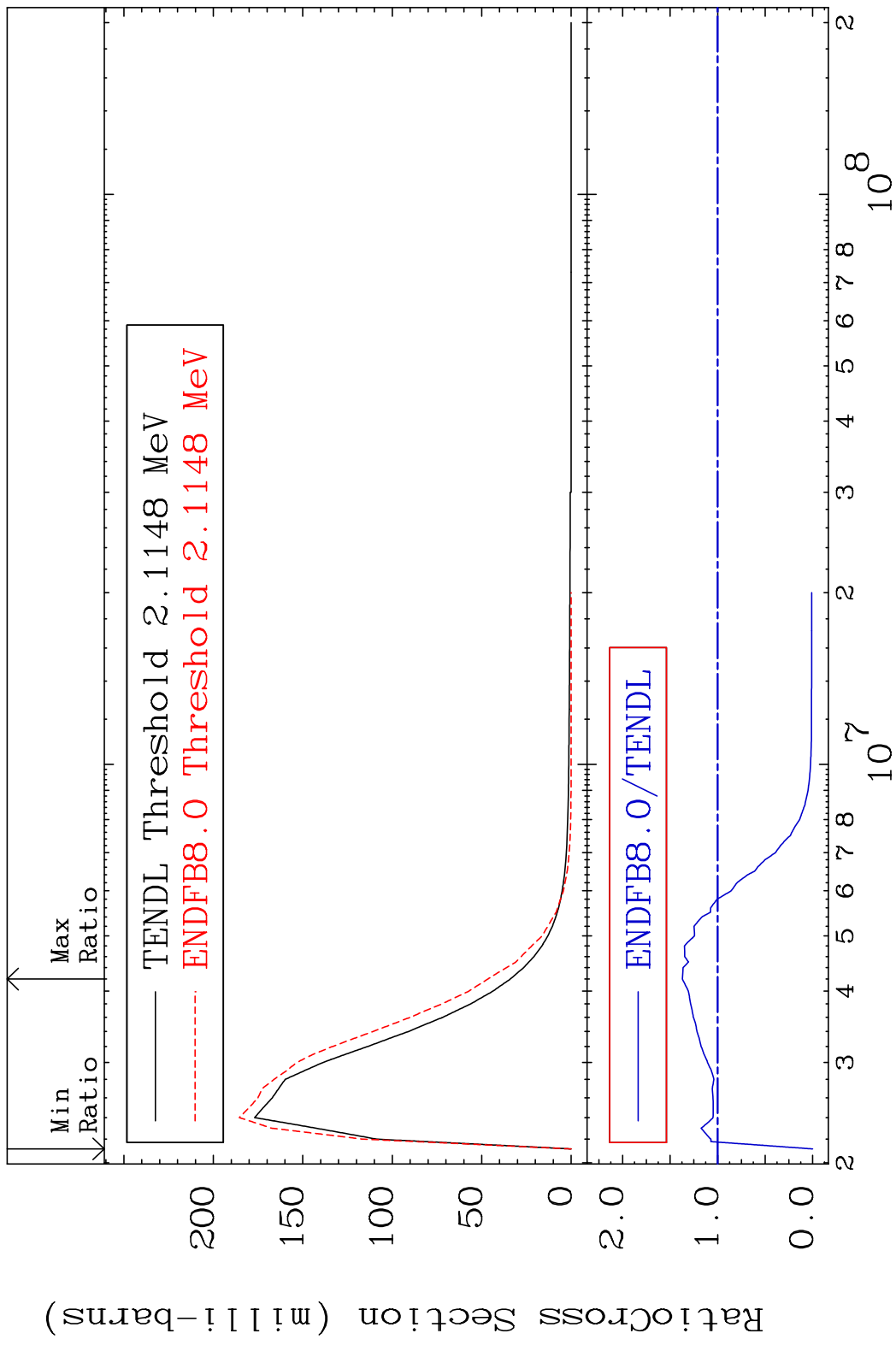


MAT 5049 MT= 52 (n, n') Level 50-Sn-120  
 Cross Section -100.0 To 9999. %



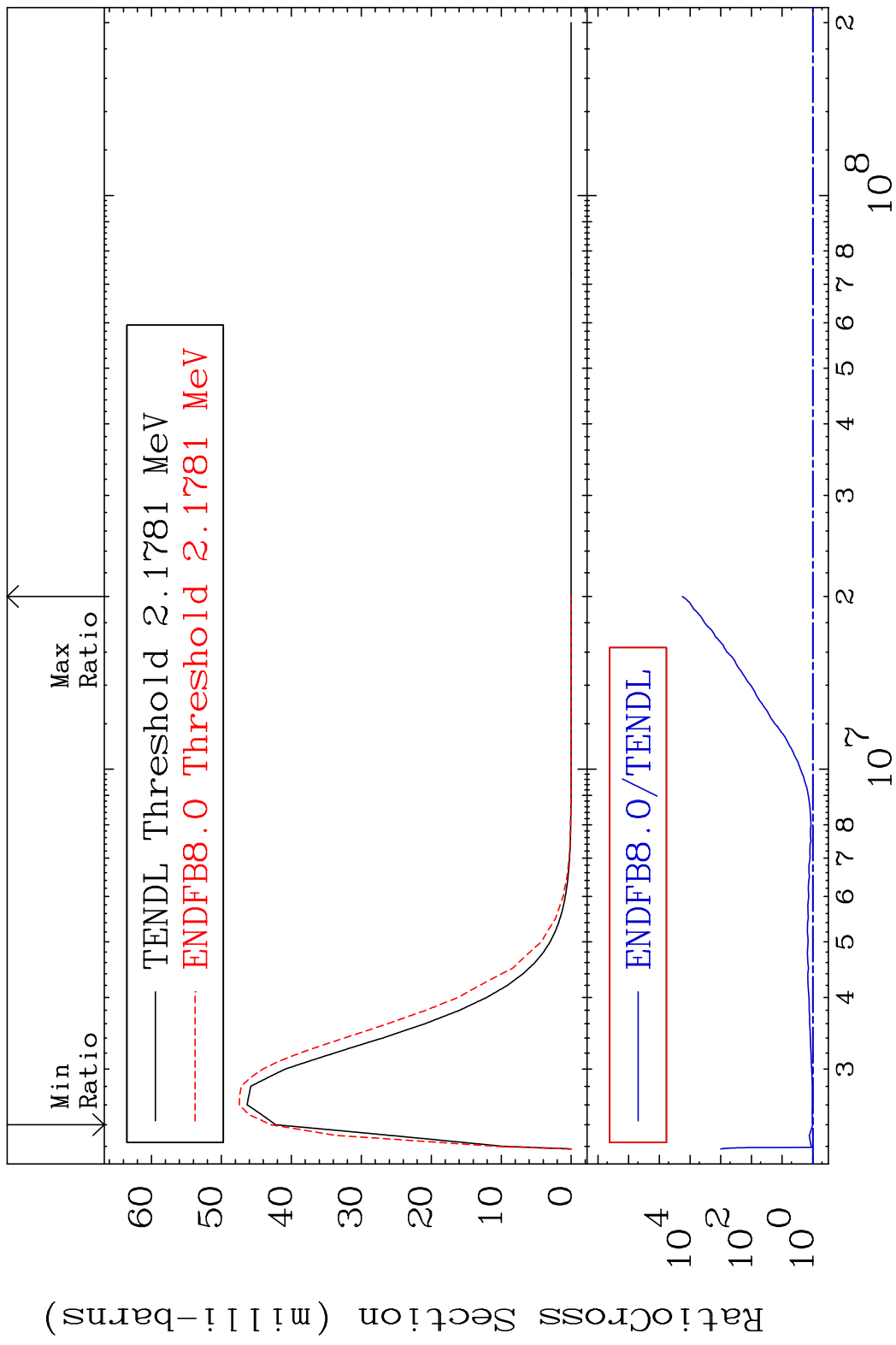
8 Incident Energy (eV) 50-Sn-120

MAT 5049 MT= 53 (n, n') Level 50-Sn-120  
 Cross Section -100.0 To 37.15 %



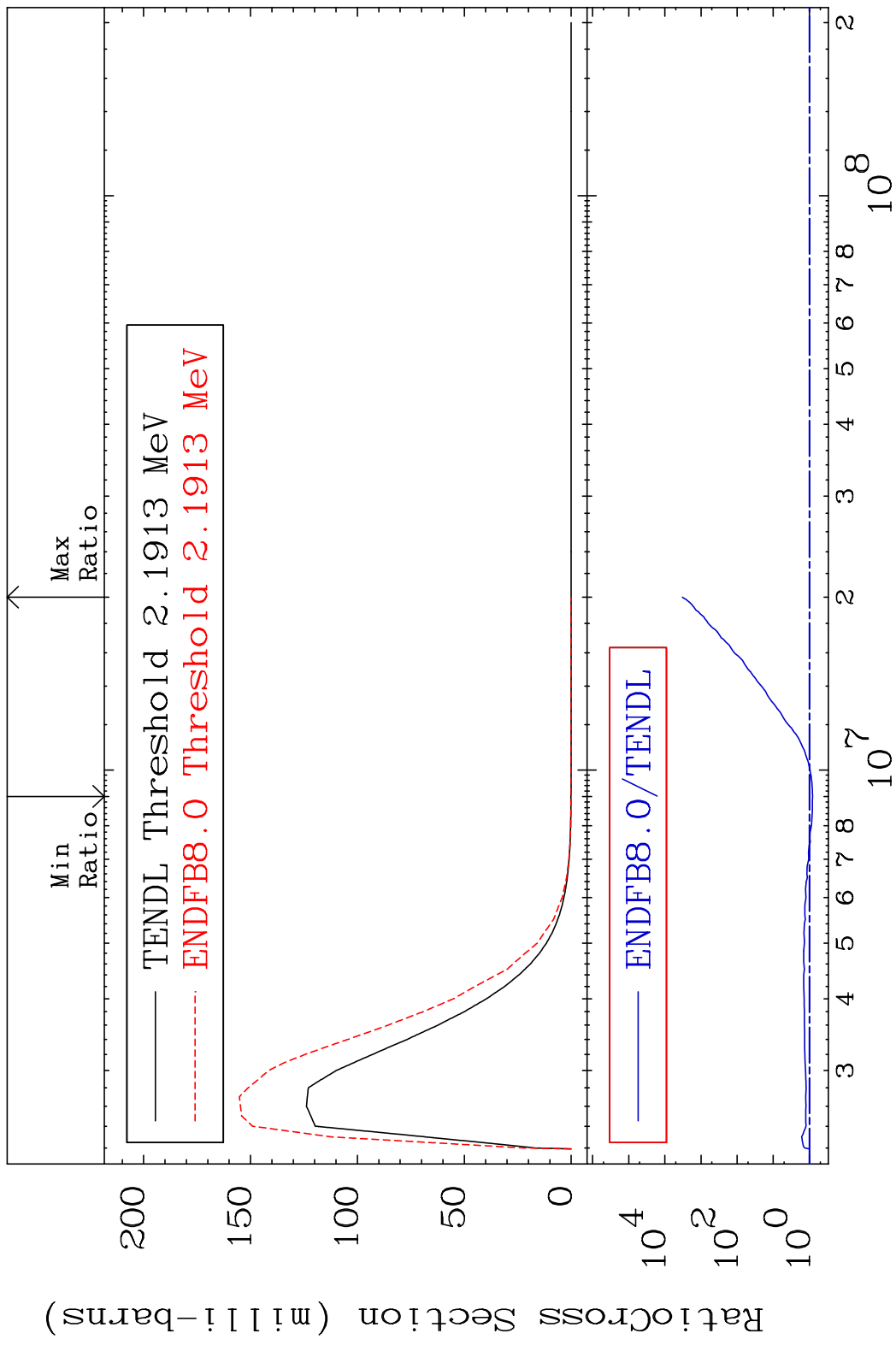
9 Incident Energy (eV) 50-Sn-120

MAT 5049 MT= 54 (n, n') Level 50-Sn-120  
 Cross Section 1.712 To 9999. %



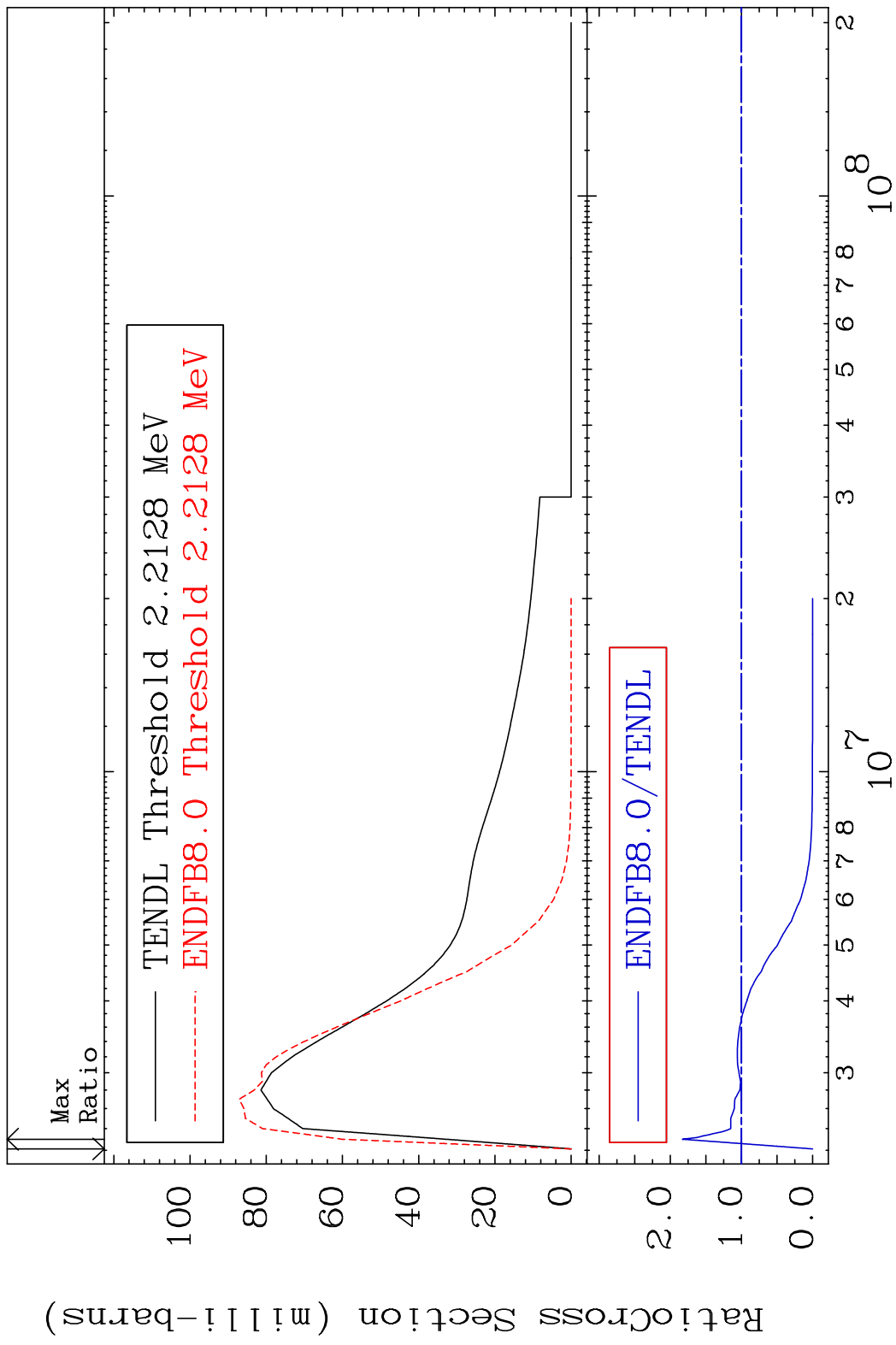
10 Incident Energy (eV) 50-Sn-120

MAT 5049 MT= 55 (n, n') Level 50-Sn-120  
 Cross Section -18.20 To 9999. %

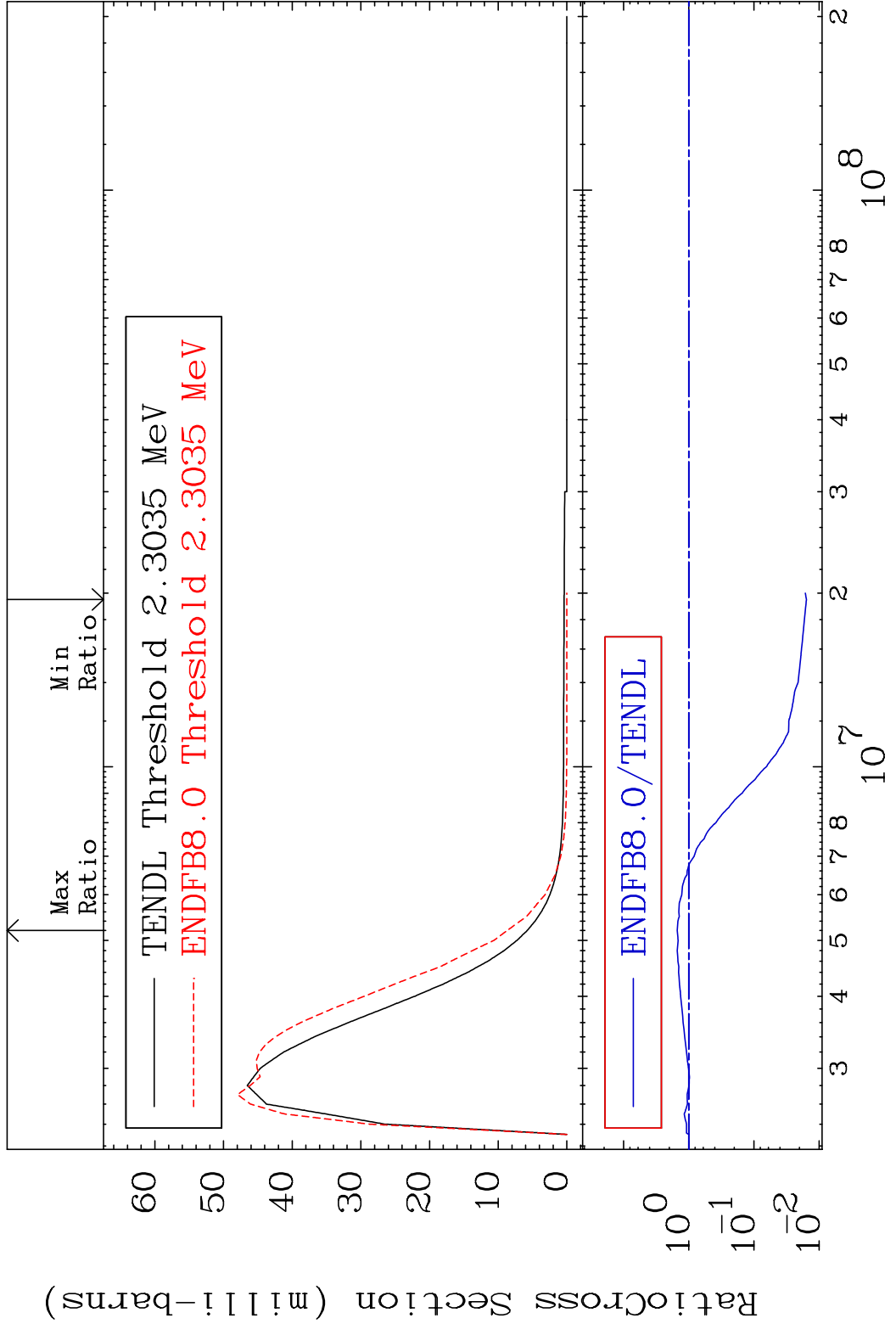


11 Incident Energy (eV) 50-Sn-120

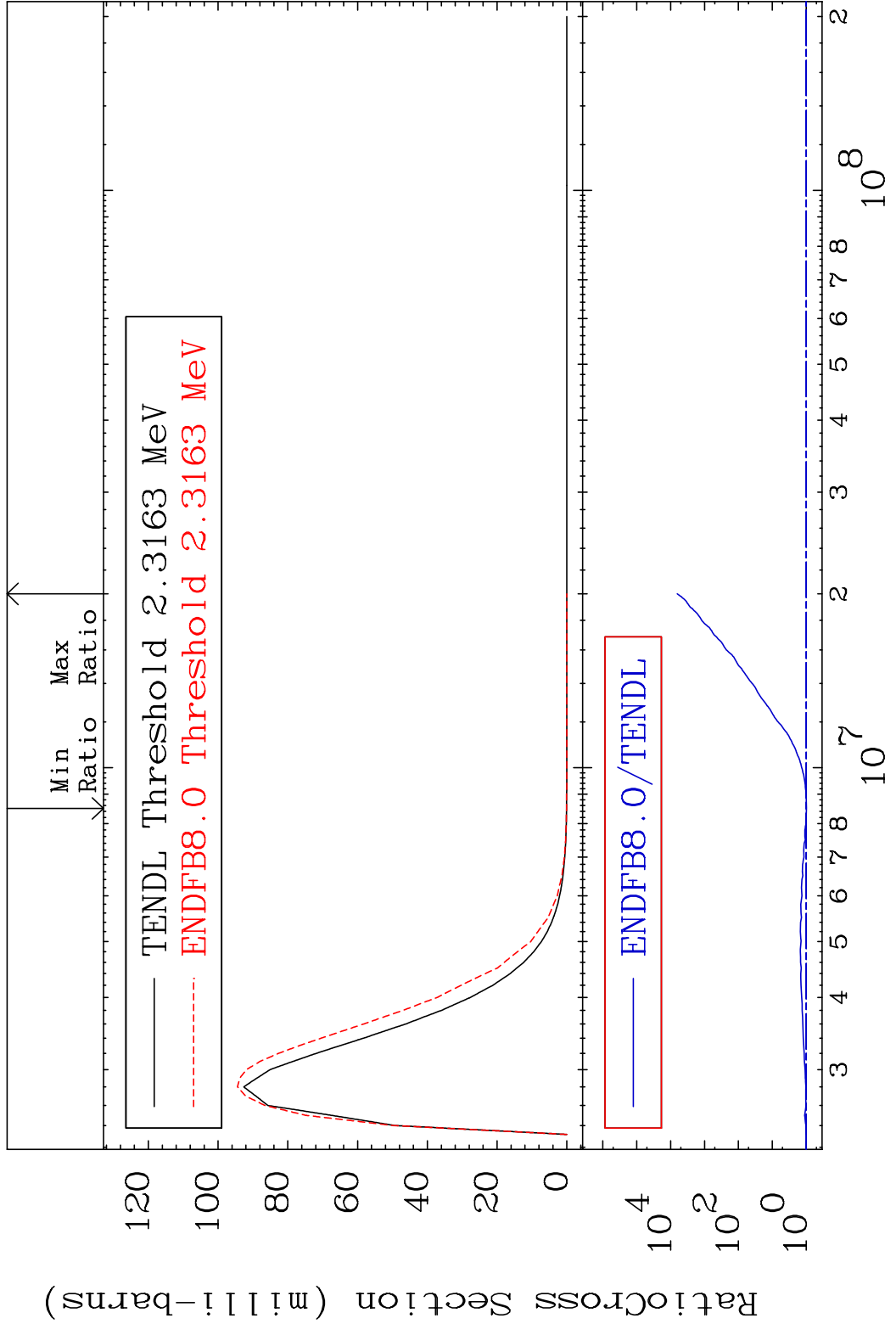
MAT 5049      MT= 56 (n,n') Level      50-Sn-120  
 Cross Section    -100.0 To 83.02 %



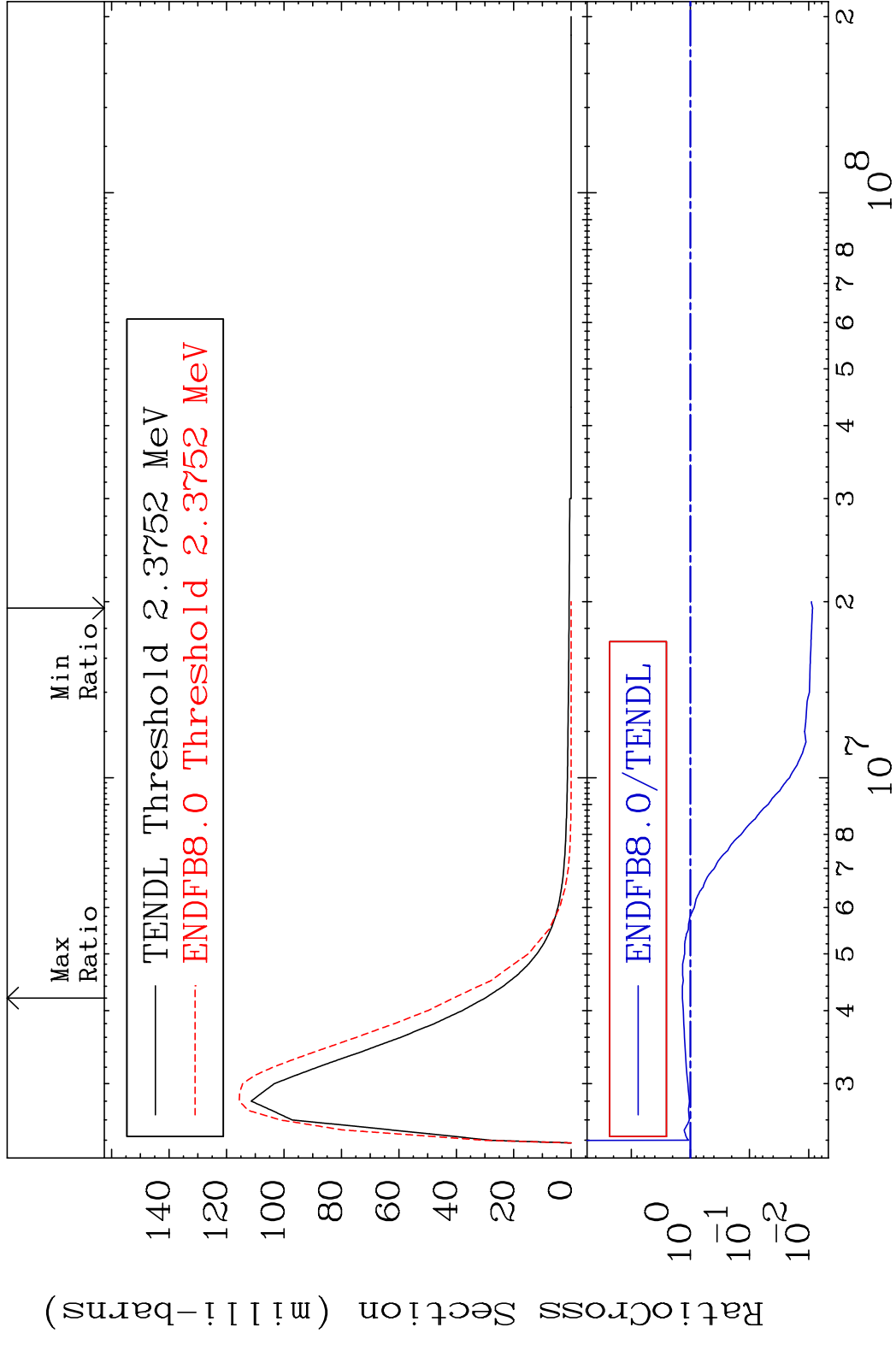
MAT 5049 MT= 57 (n,n') Level 50-Sn-120  
 Cross Section -98.43 To 50.79 %



MAT 5049 MT= 58 (n, n') Level 50-Sn-120  
 Cross Section -1.570 To 9999. %

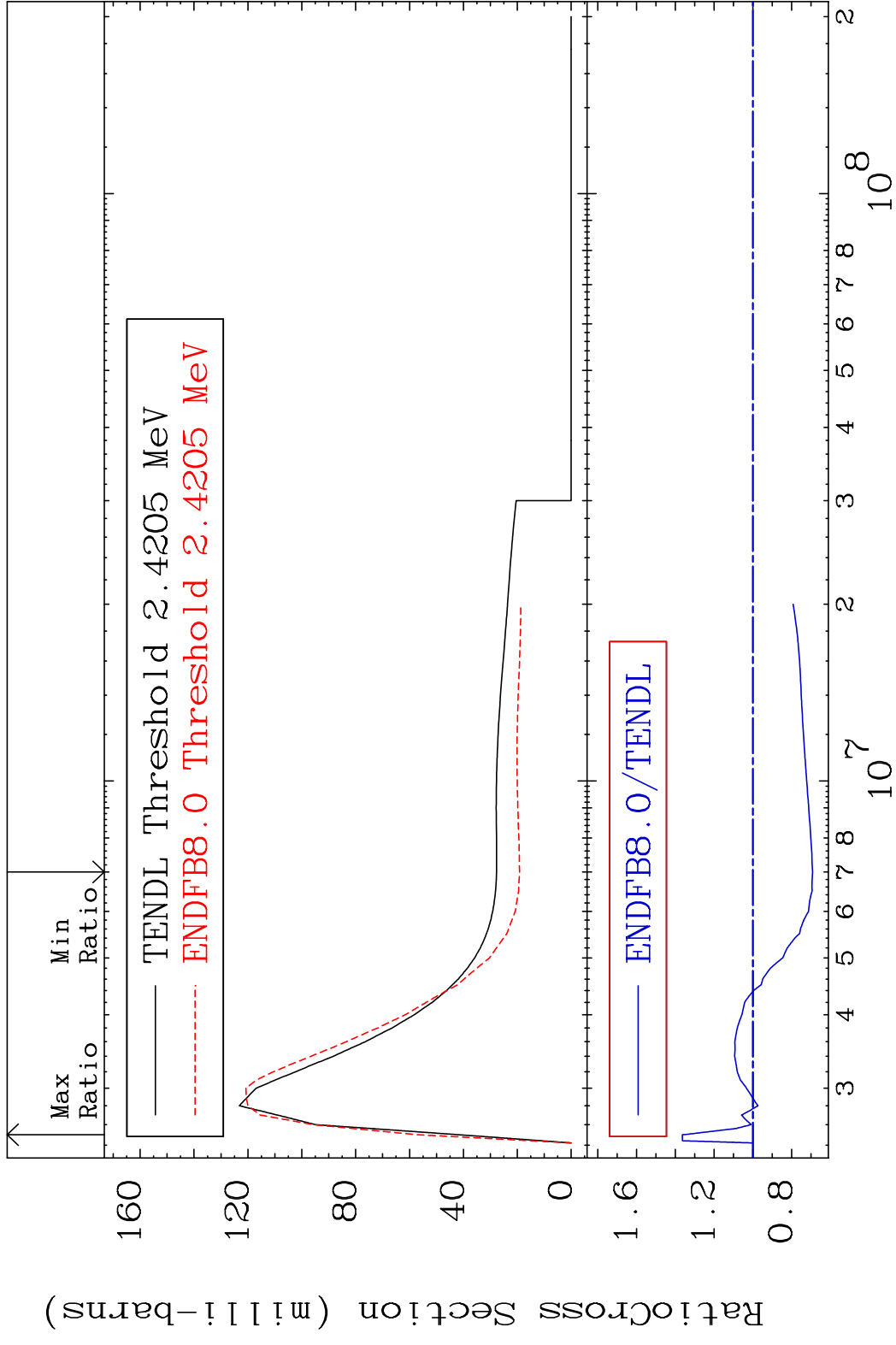


MAT 5049 MT= 59 (n,n') Level 50-Sn-120  
 Cross Section -99.14 To 36.82 %

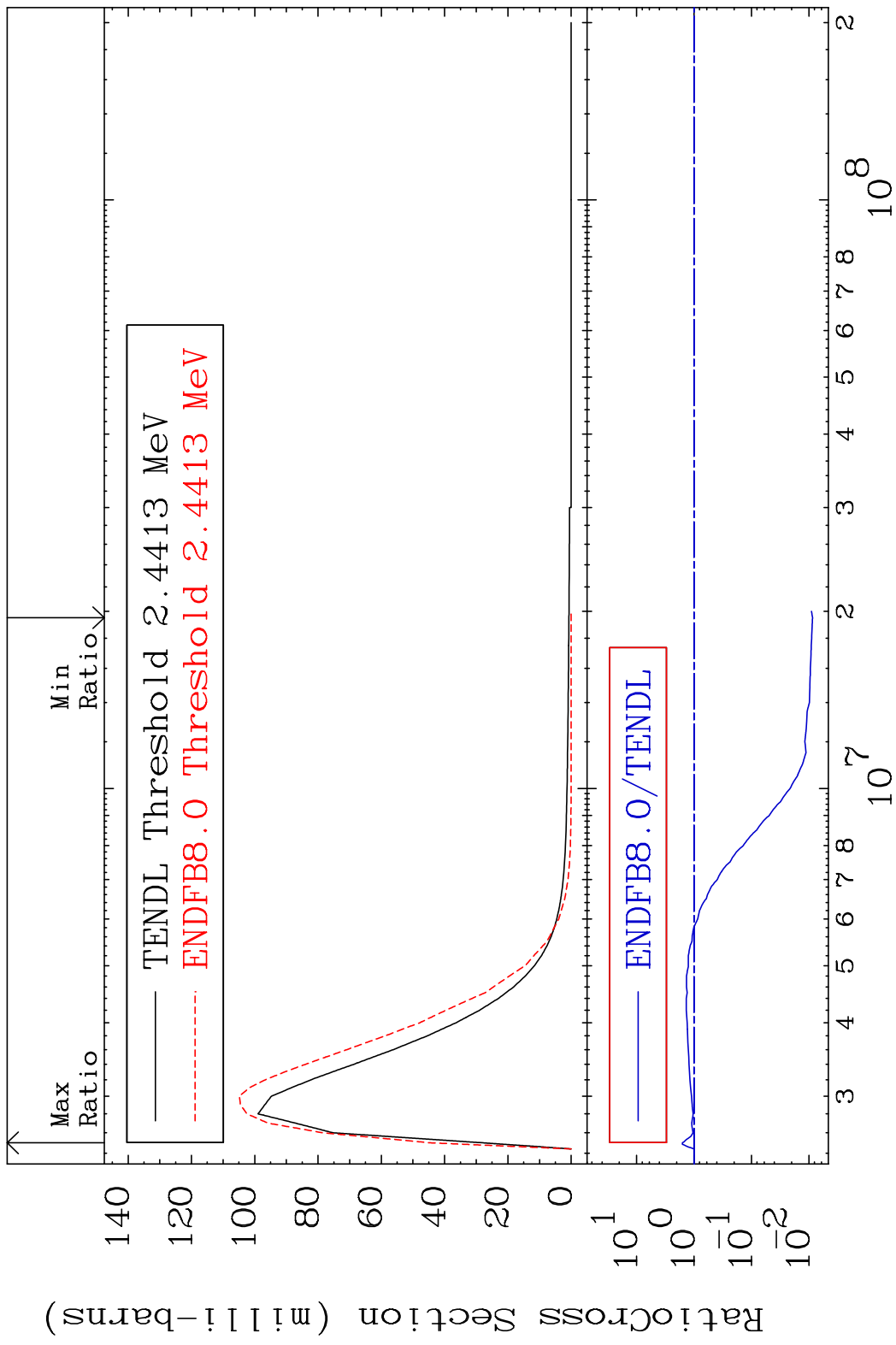




MAT 5049 MT= 60 (n,n') Level 50-Sn-120  
 Cross Section -30.82 To 36.39 %

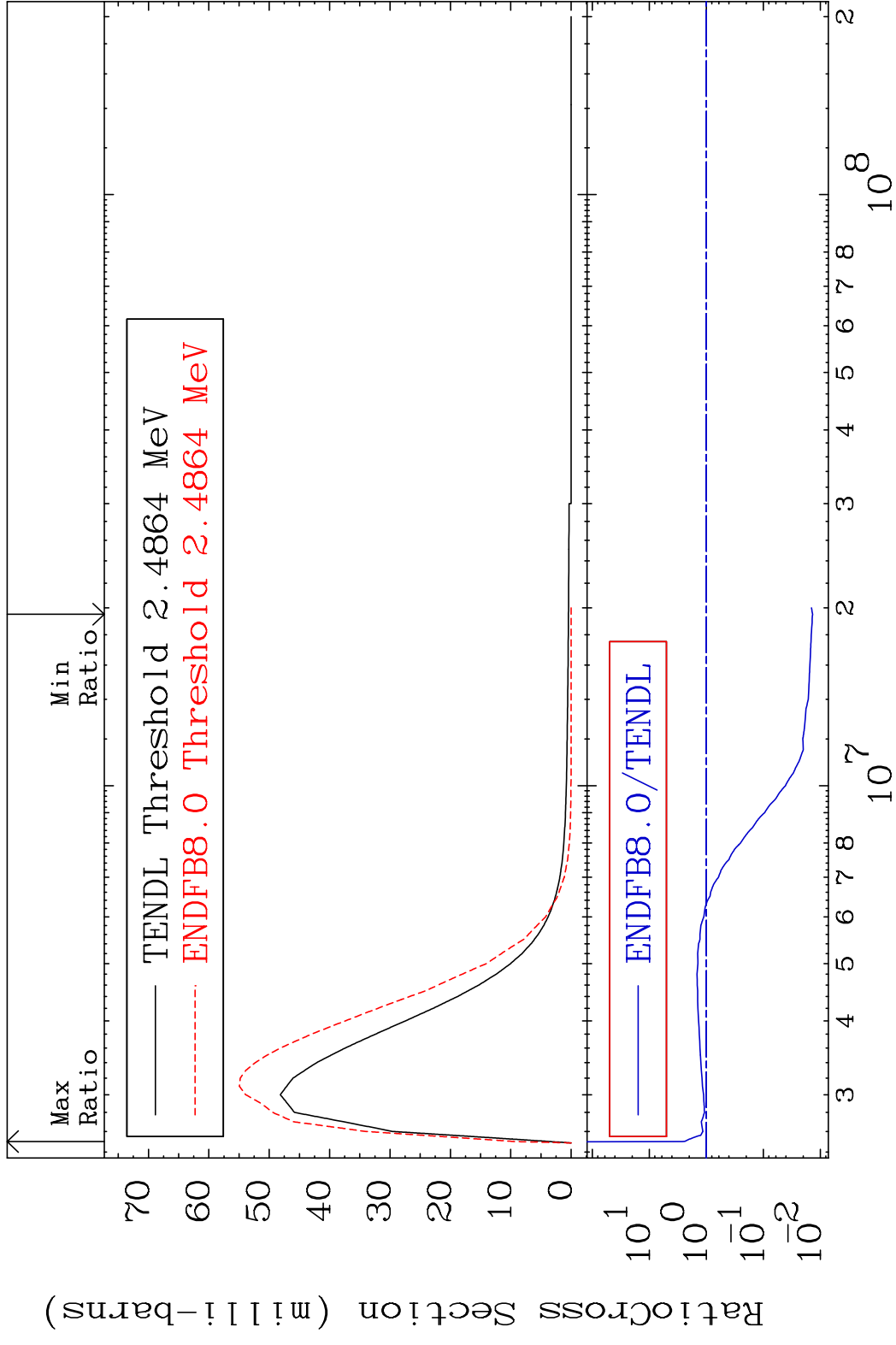


MAT 5049 MT= 61 (n,n') Level 50-Sn-120  
 Cross Section -99.14 To 59.62 %

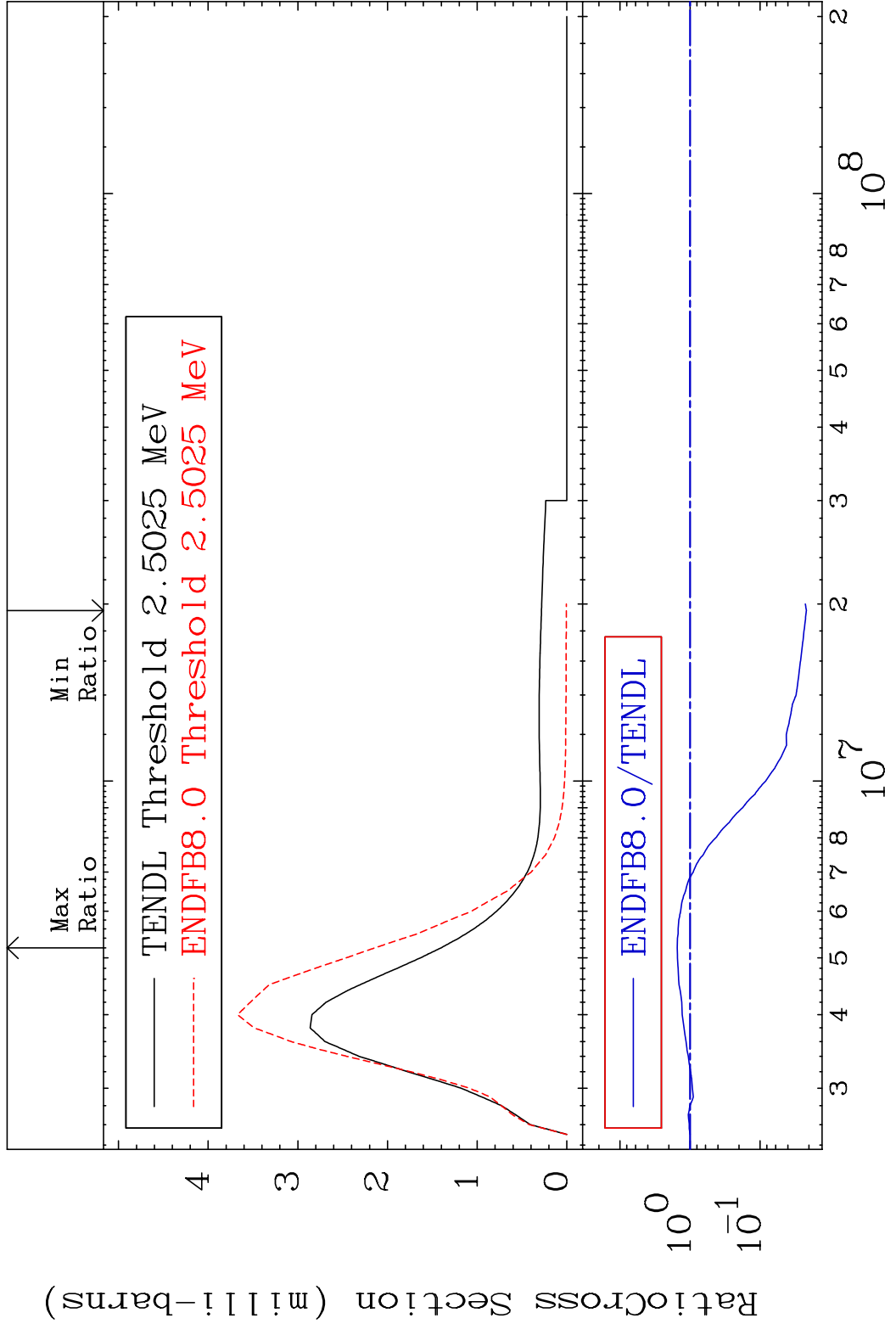


17 Incident Energy (eV) 50-Sn-120

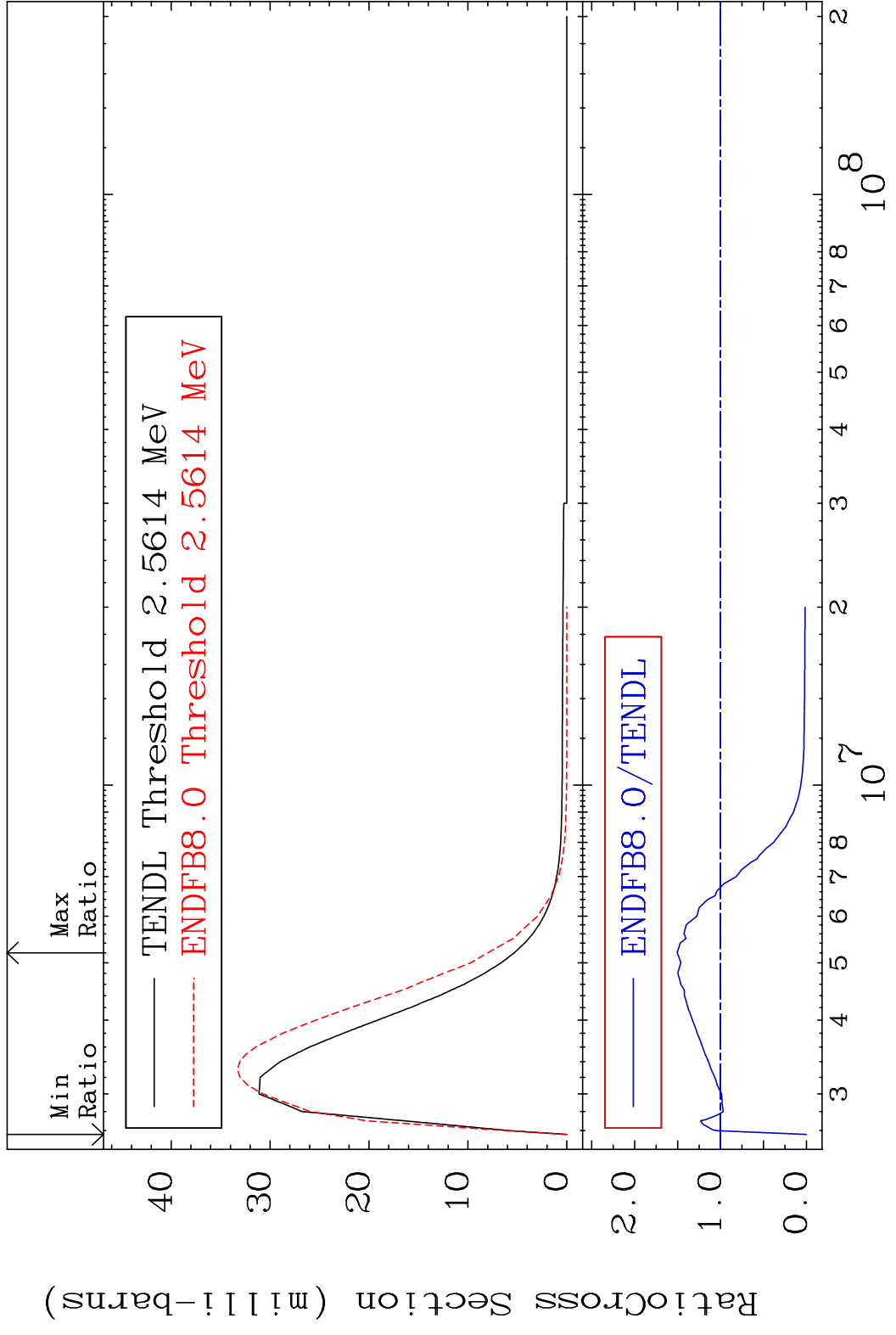
MAT 5049 MT= 62 (n, n') Level 50-Sn-120  
 Cross Section -98.63 To 162.9 %



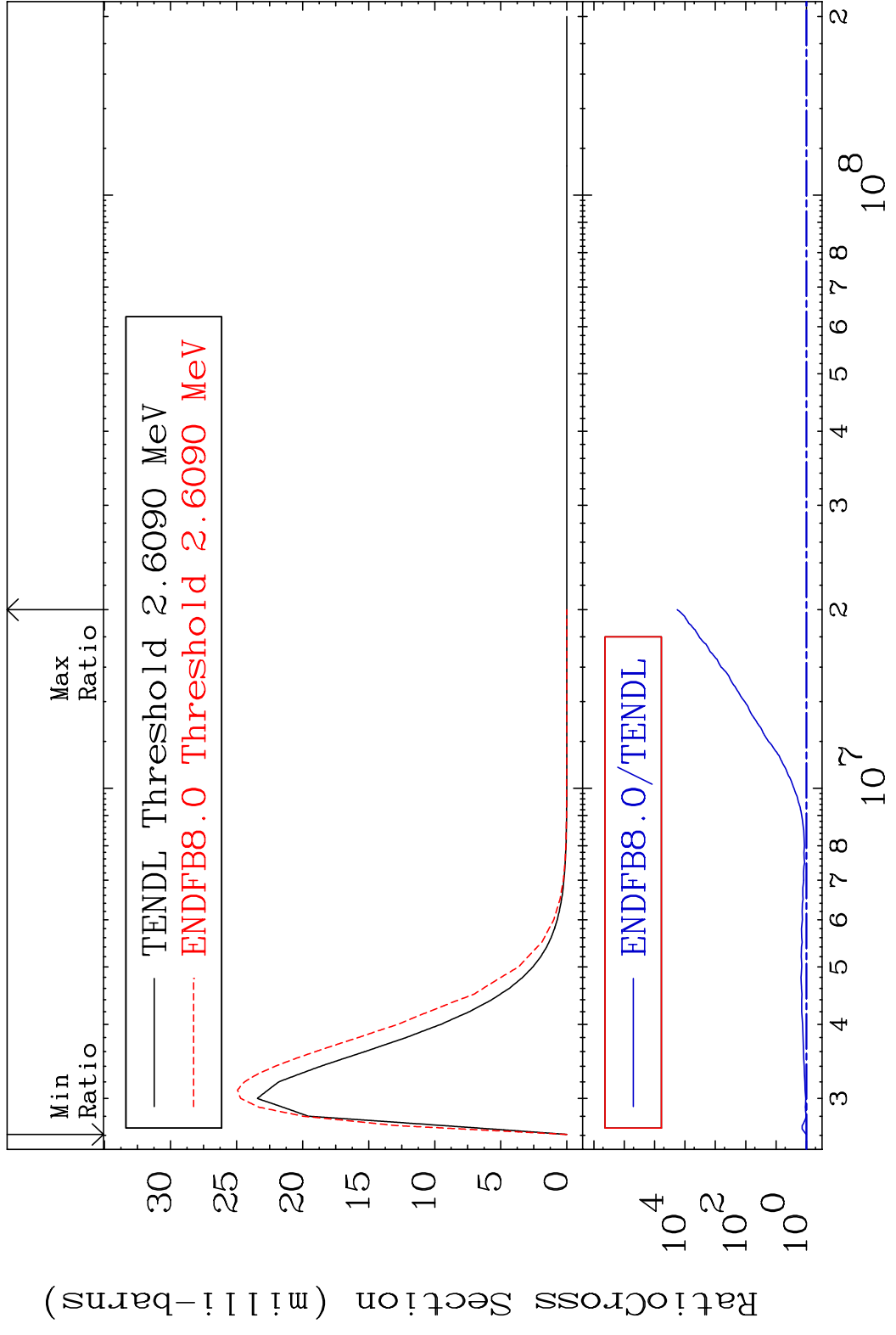
MAT 5049 MT= 63 (n, n') Level 50-Sn-120  
 Cross Section -97.82 To 52.57 %



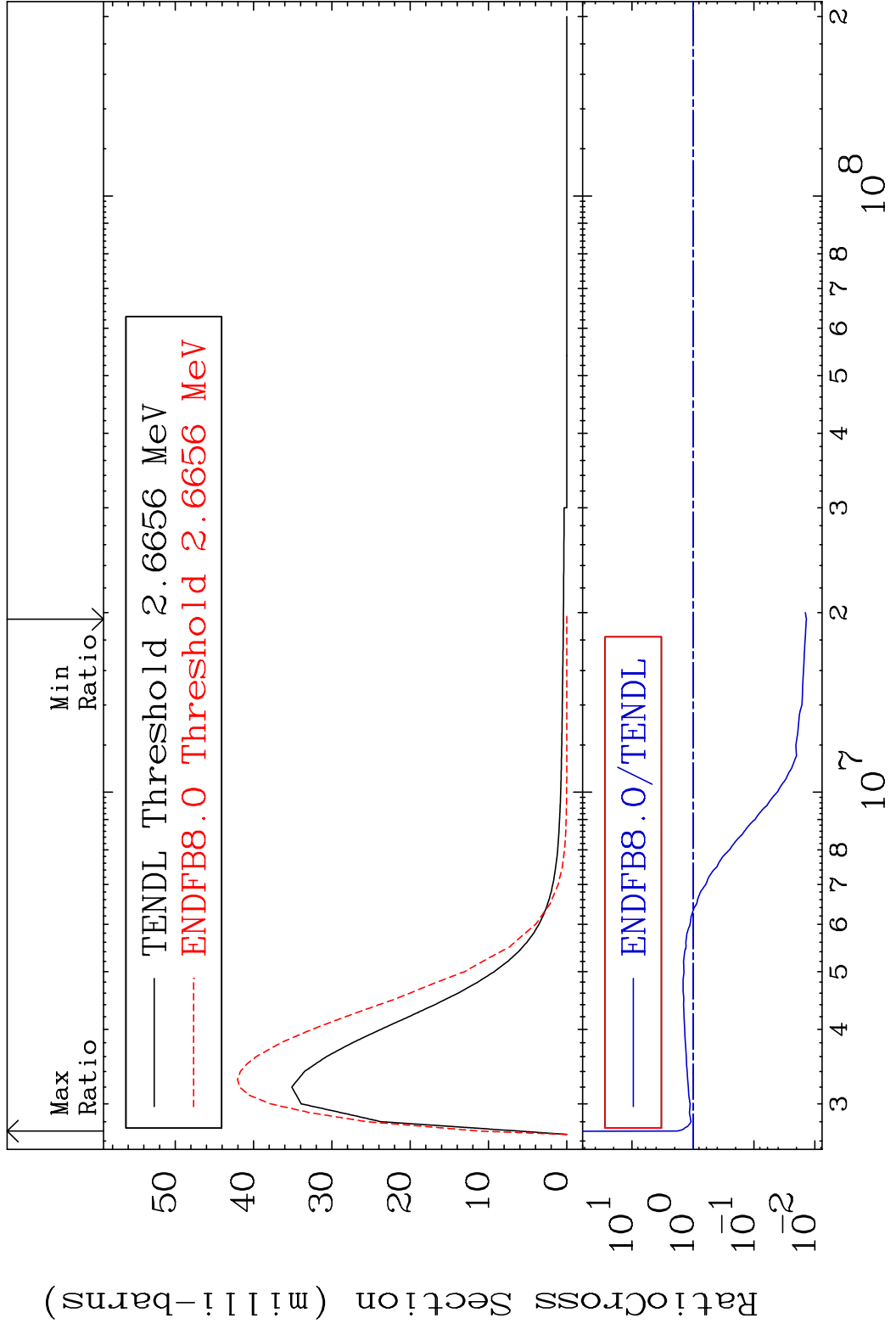
MAT 5049 MT= 64 (n, n') Level 50-Sn-120  
 Cross Section -100.0 To 50.48 %



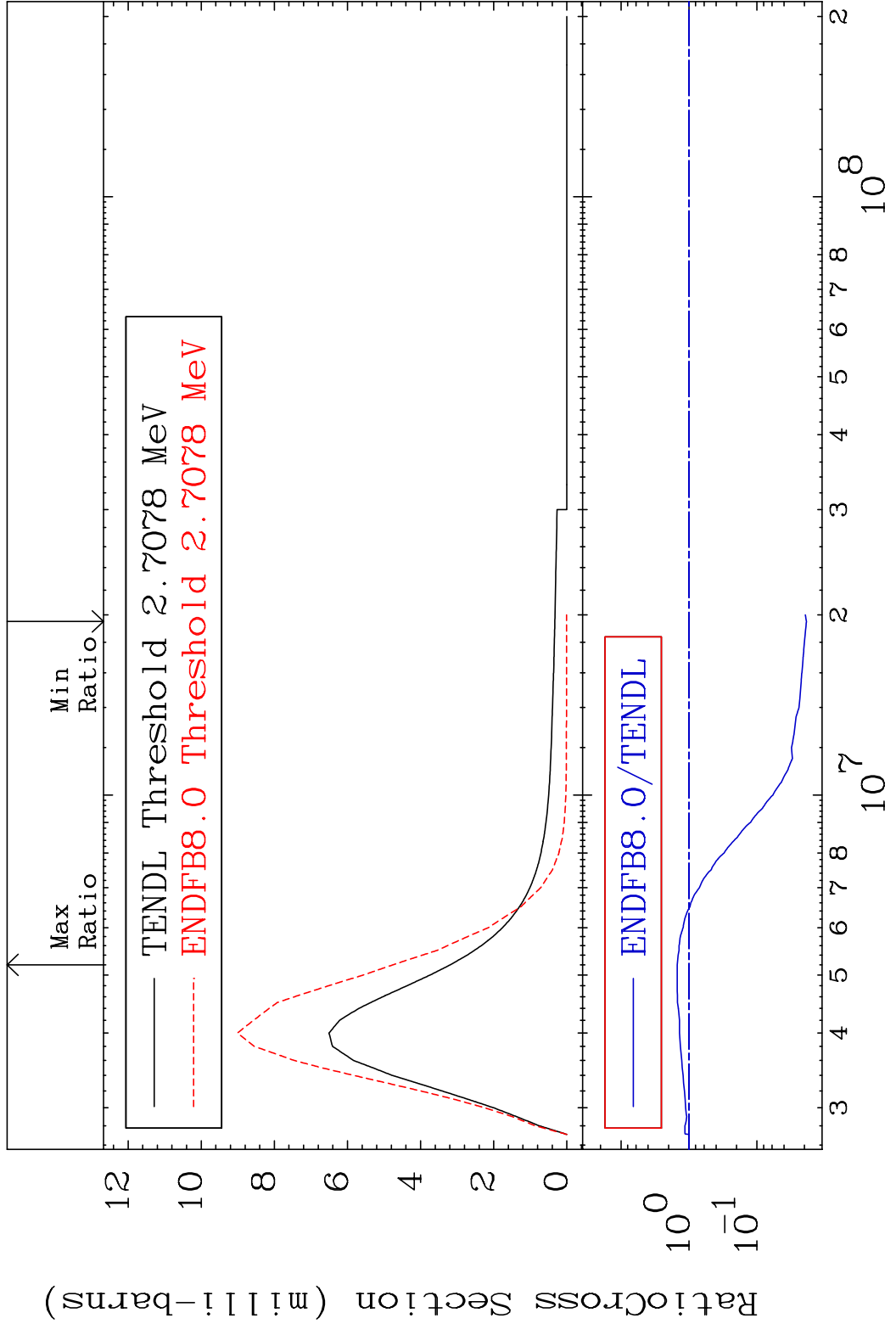
MAT 5049 MT= 65 (n,n') Level 50-Sn-120  
 Cross Section 0.000 To 9999. %



MAT 5049 MT= 66 (n,n') Level 50-Sn-120  
 Cross Section -98.62 To 81.61 %

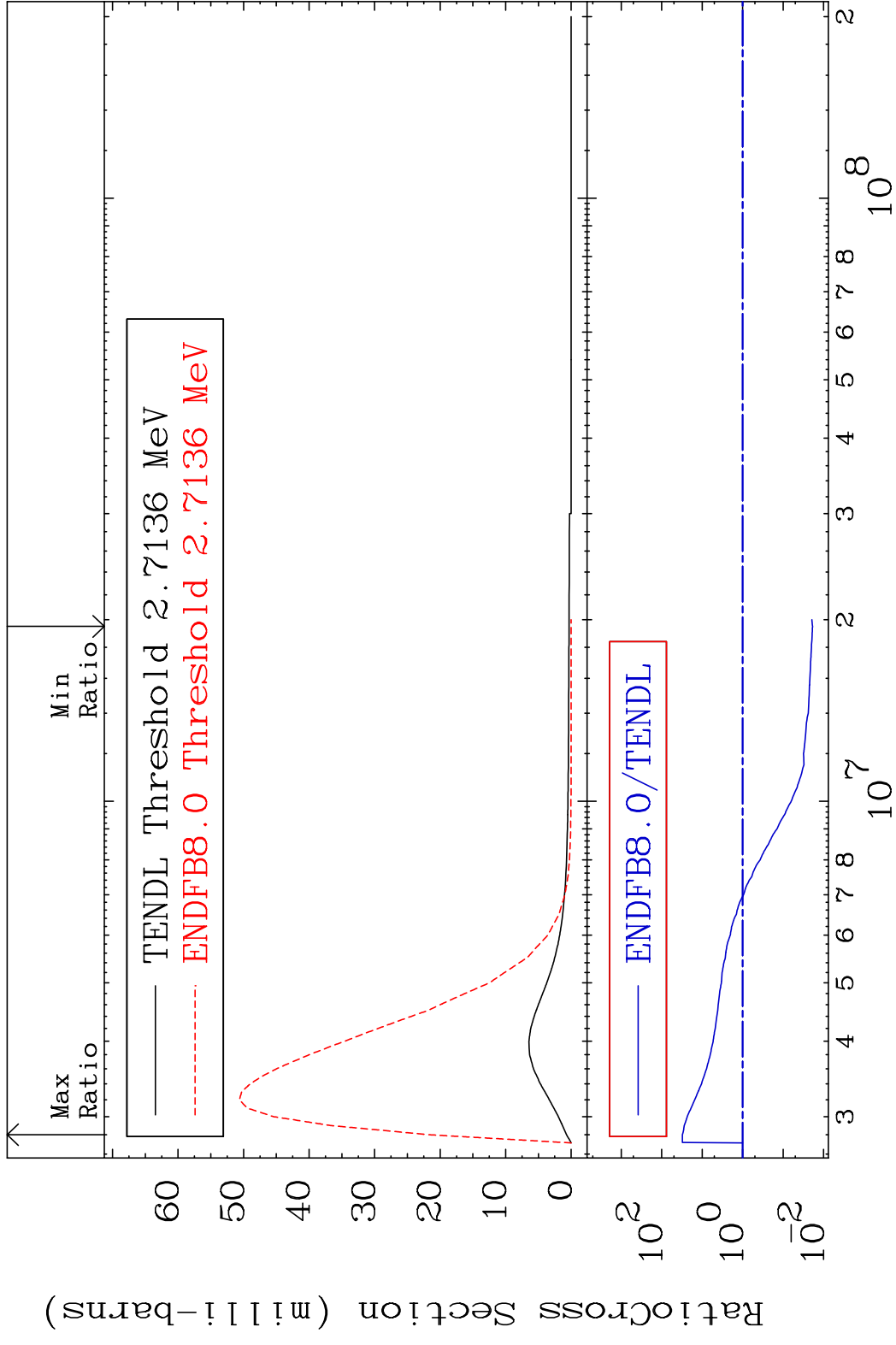


MAT 5049 MT= 67 (n,n') Level 50-Sn-120  
 Cross Section -98.13 To 49.20 %

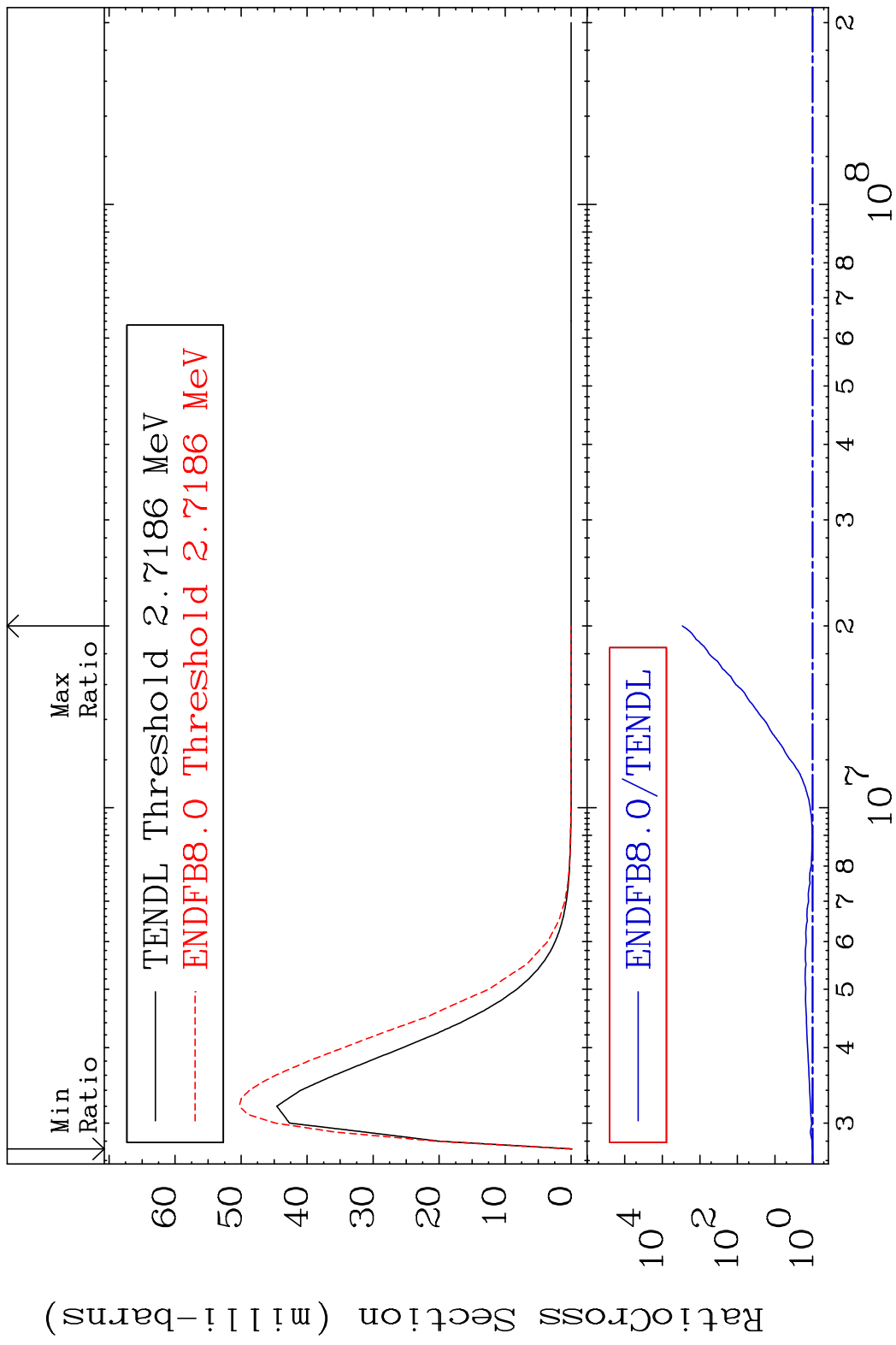




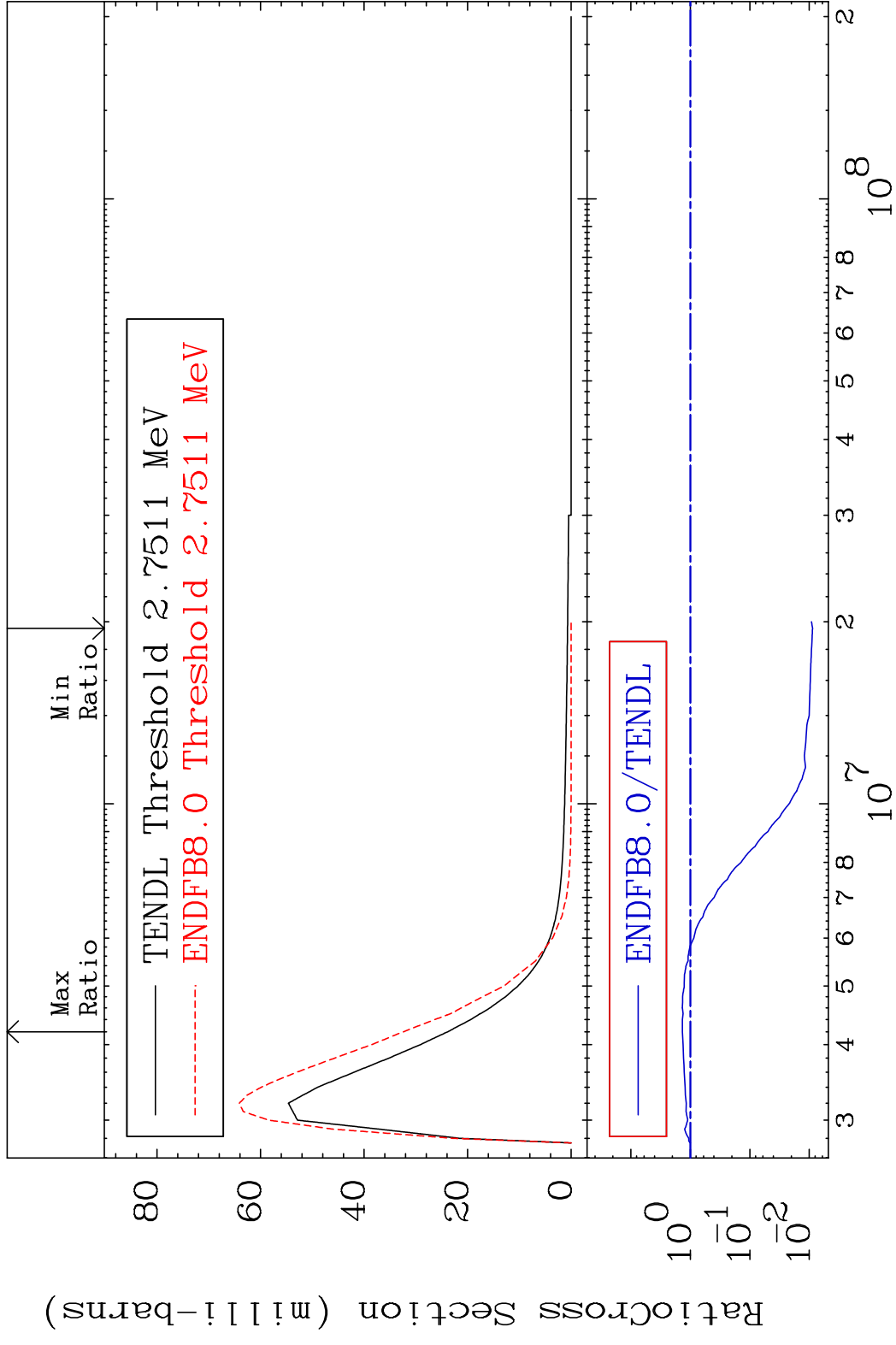
MAT 5049 MT= 68 (n,n') Level 50-Sn-120  
 Cross Section -98.12 To 2982. %



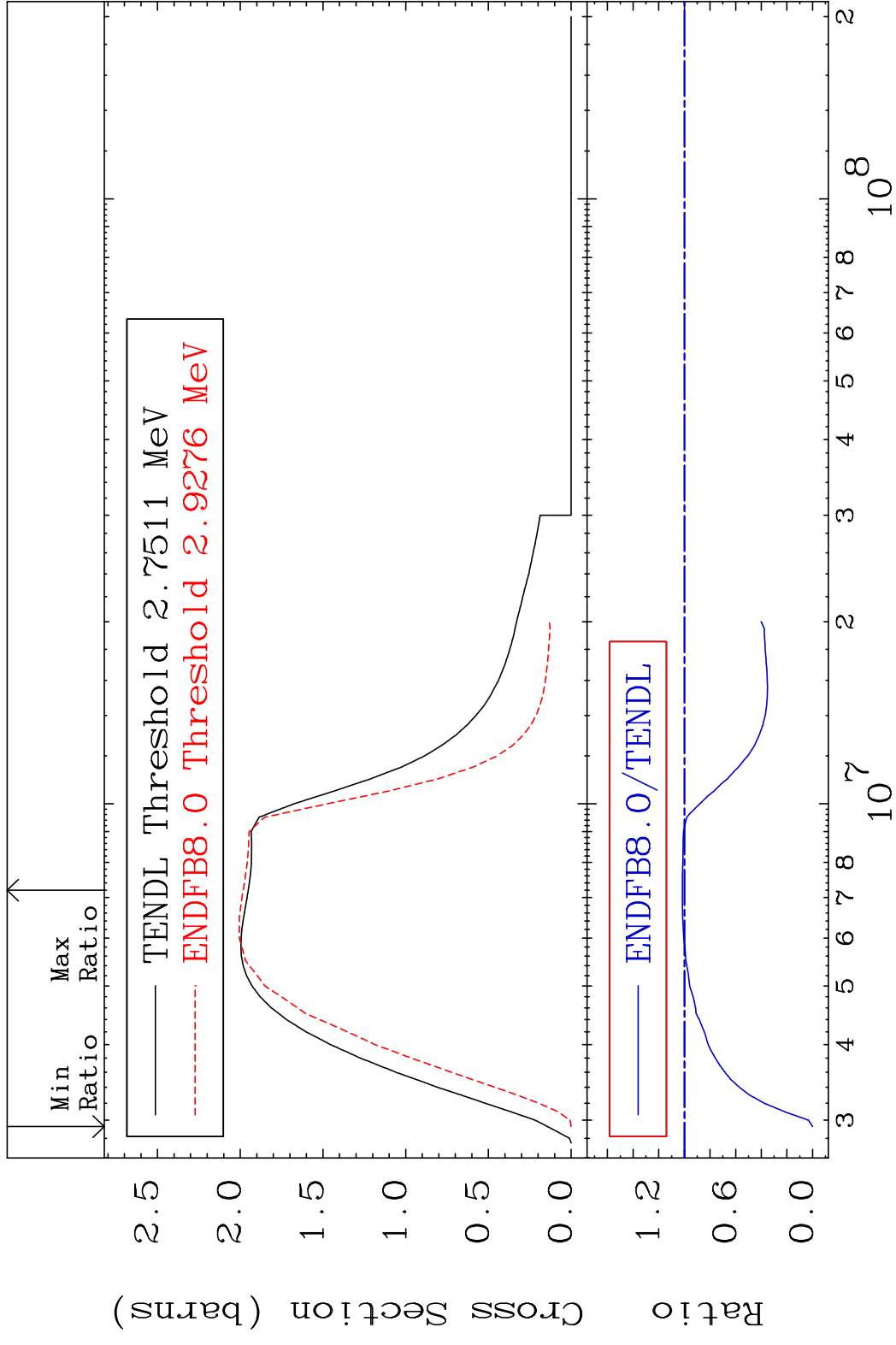
MAT 5049 MT= 69 (n, n') Level 50-Sn-120  
 Cross Section 0.000 To 9999. %



MAT 5049 MT= 70 (n, n') Level 50-Sn-120  
 Cross Section -99.12 To 35.95 %

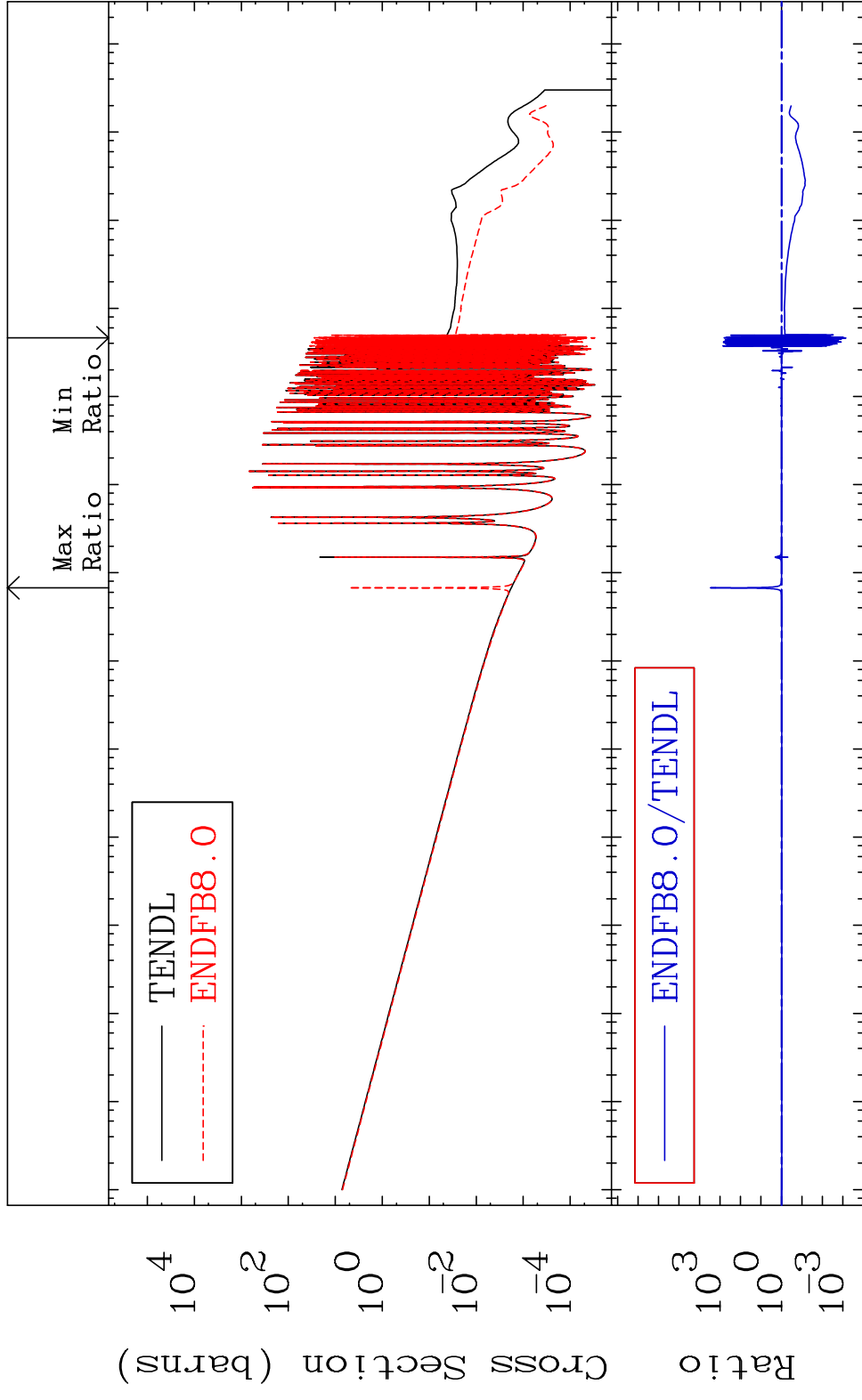


MAT 5049 (n,n') Continuum 50-Sn-120  
 Cross Section -100.0 To 1.580 %



MAT 5049

(n,  $\gamma$ )  
Cross Section -99.93 To 9999. %  
50-Sn-120

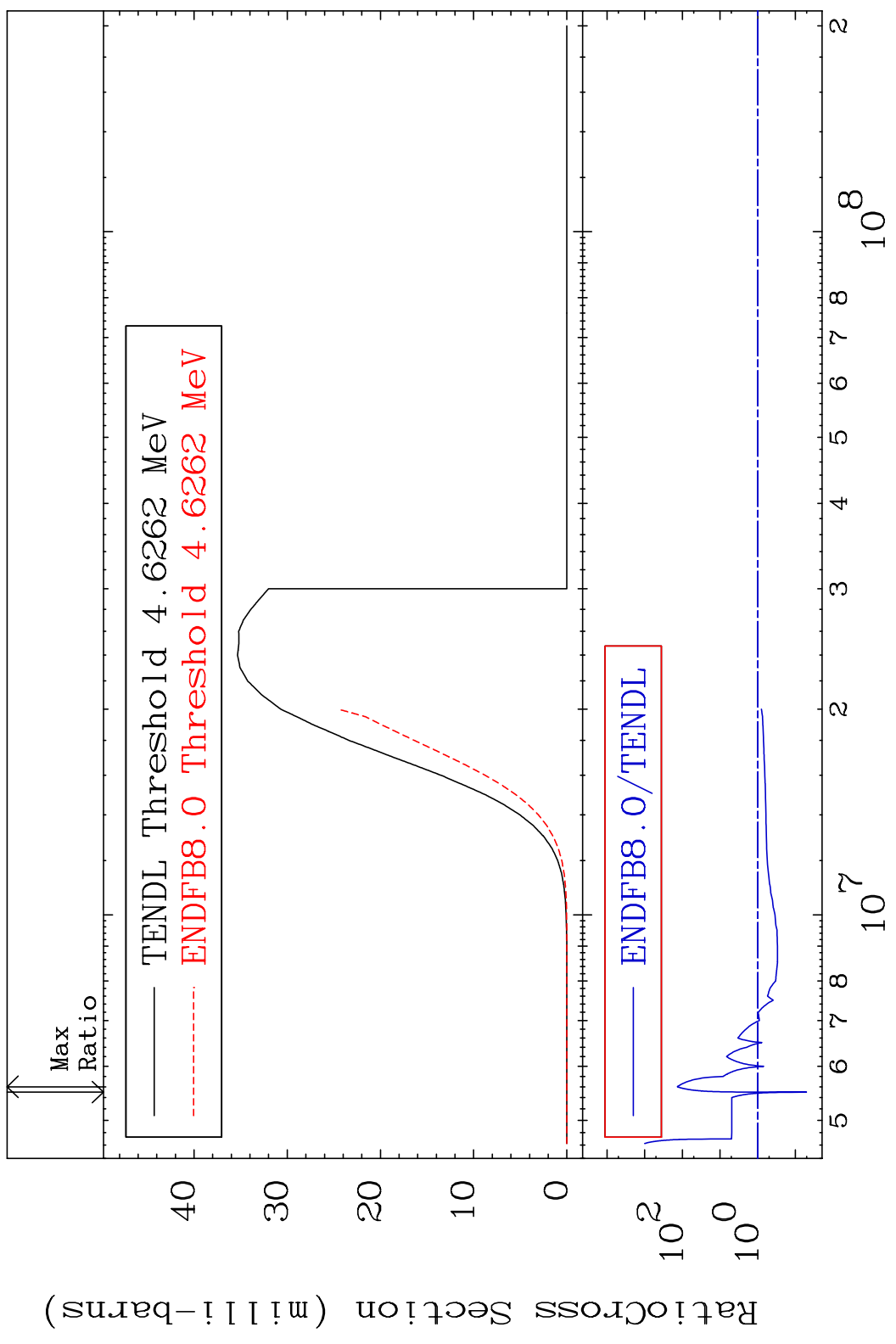


MAT 5049

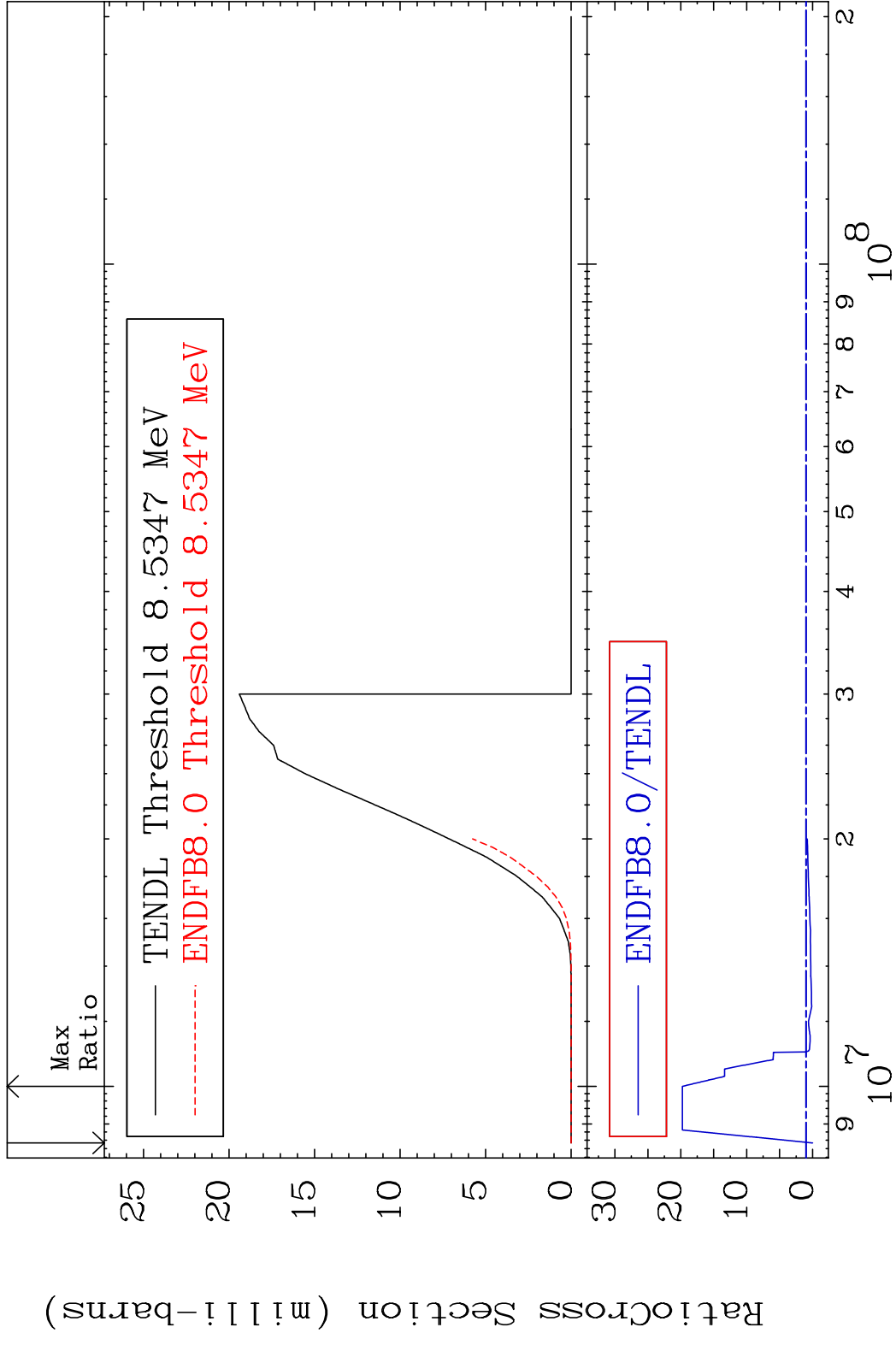
(n,p)

50-Sn-120

Cross Section -94.90 To 9999. %

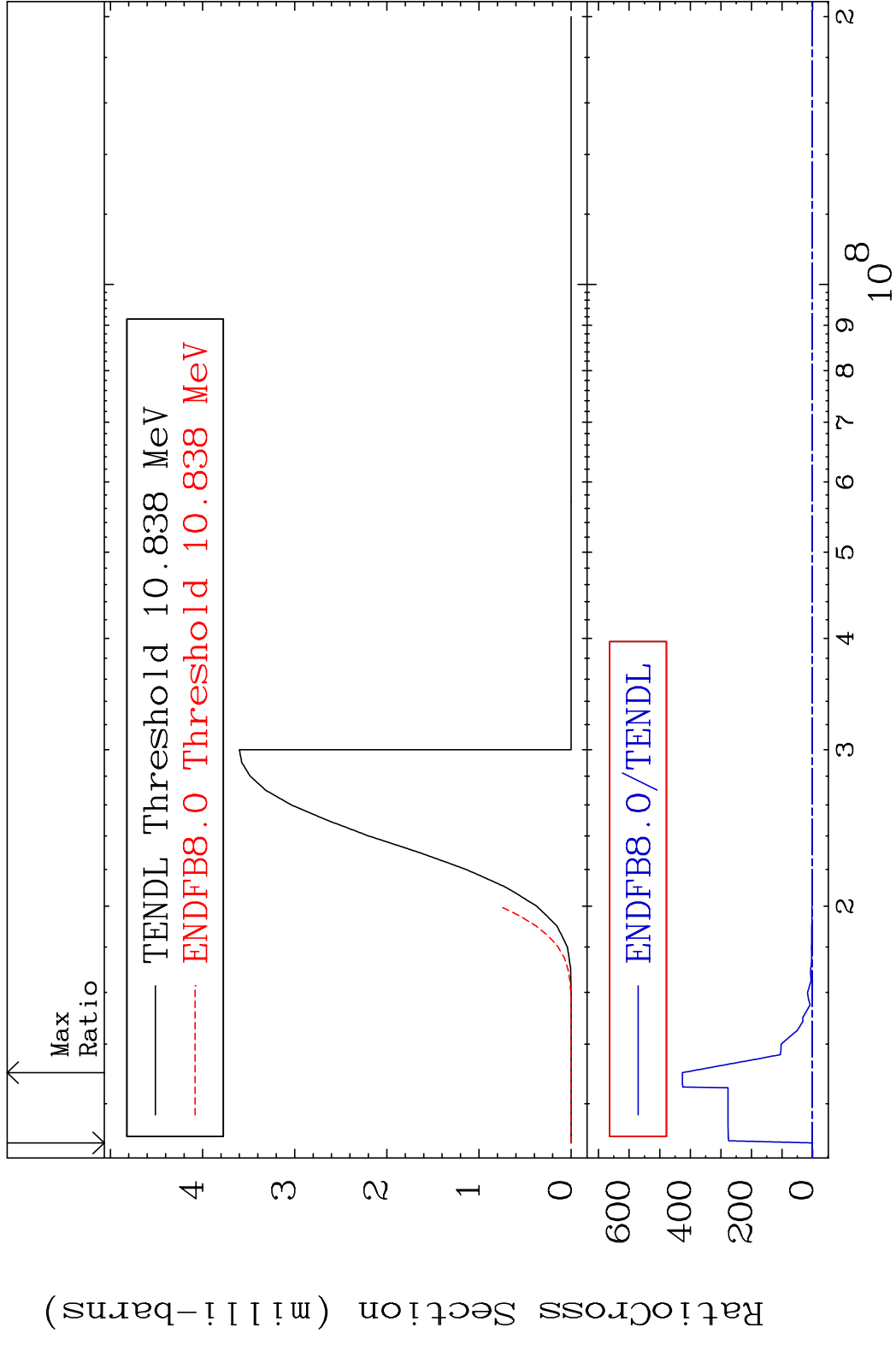


MAT 5049 (n,d) 50-Sn-120  
 Cross Section -100.0 To 1877. %



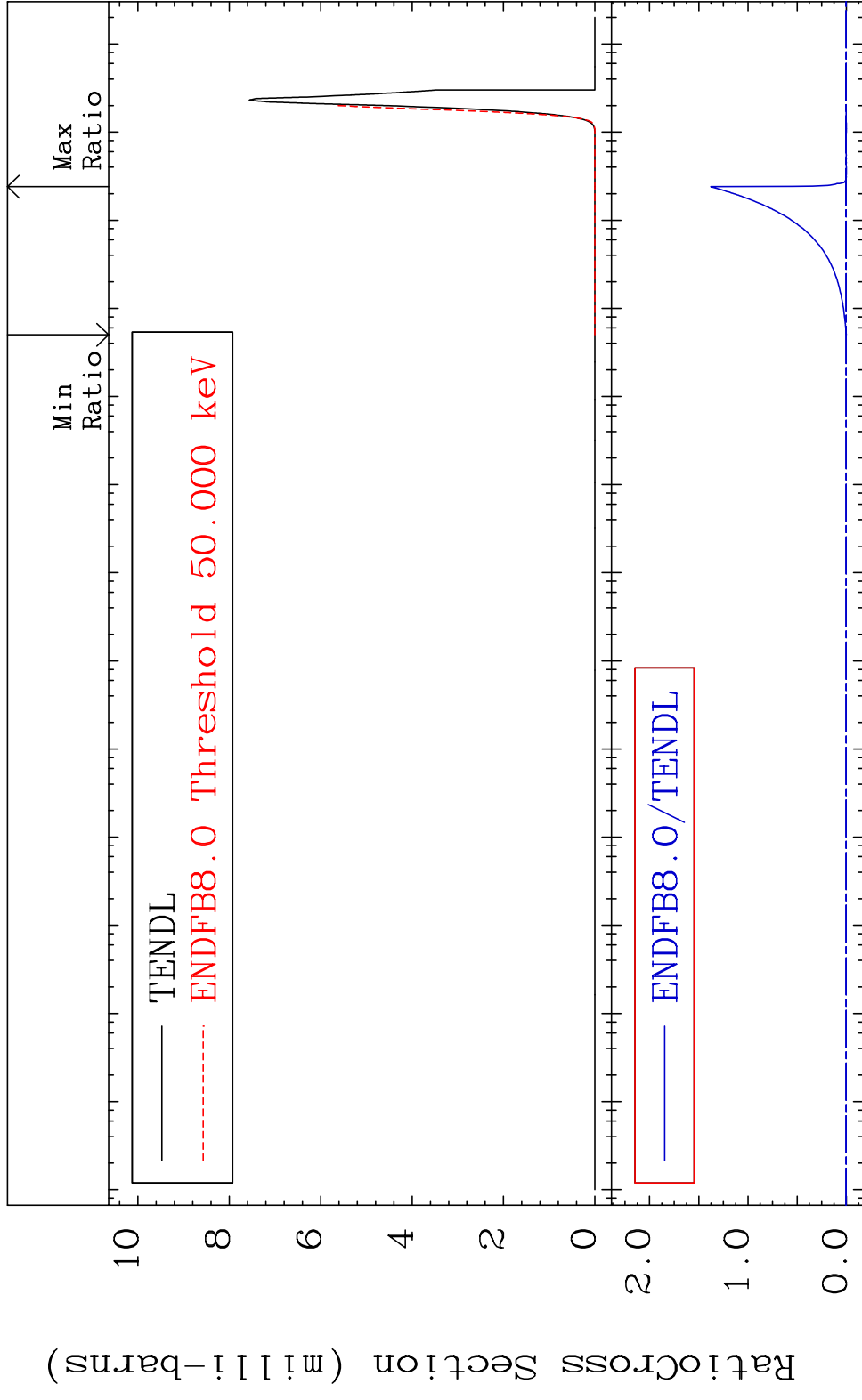
30 50-Sn-120

MAT 5049 (n, t) 50-Sn-120  
 Cross Section -100.0 To 9999. %



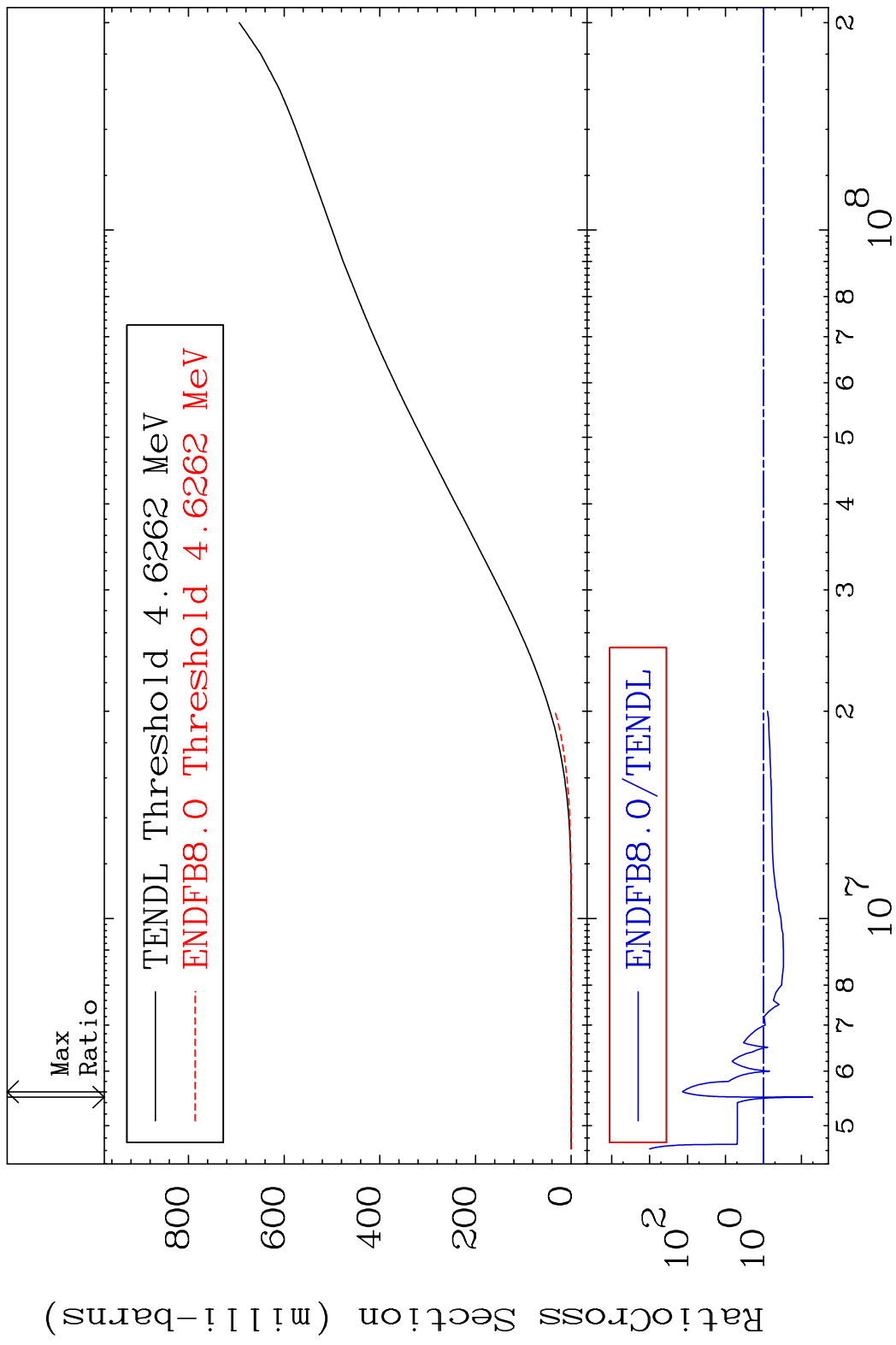


MAT 5049 (n,  $\alpha$ ) 50-Sn-120  
 Cross Section -100.0 To 9999. %

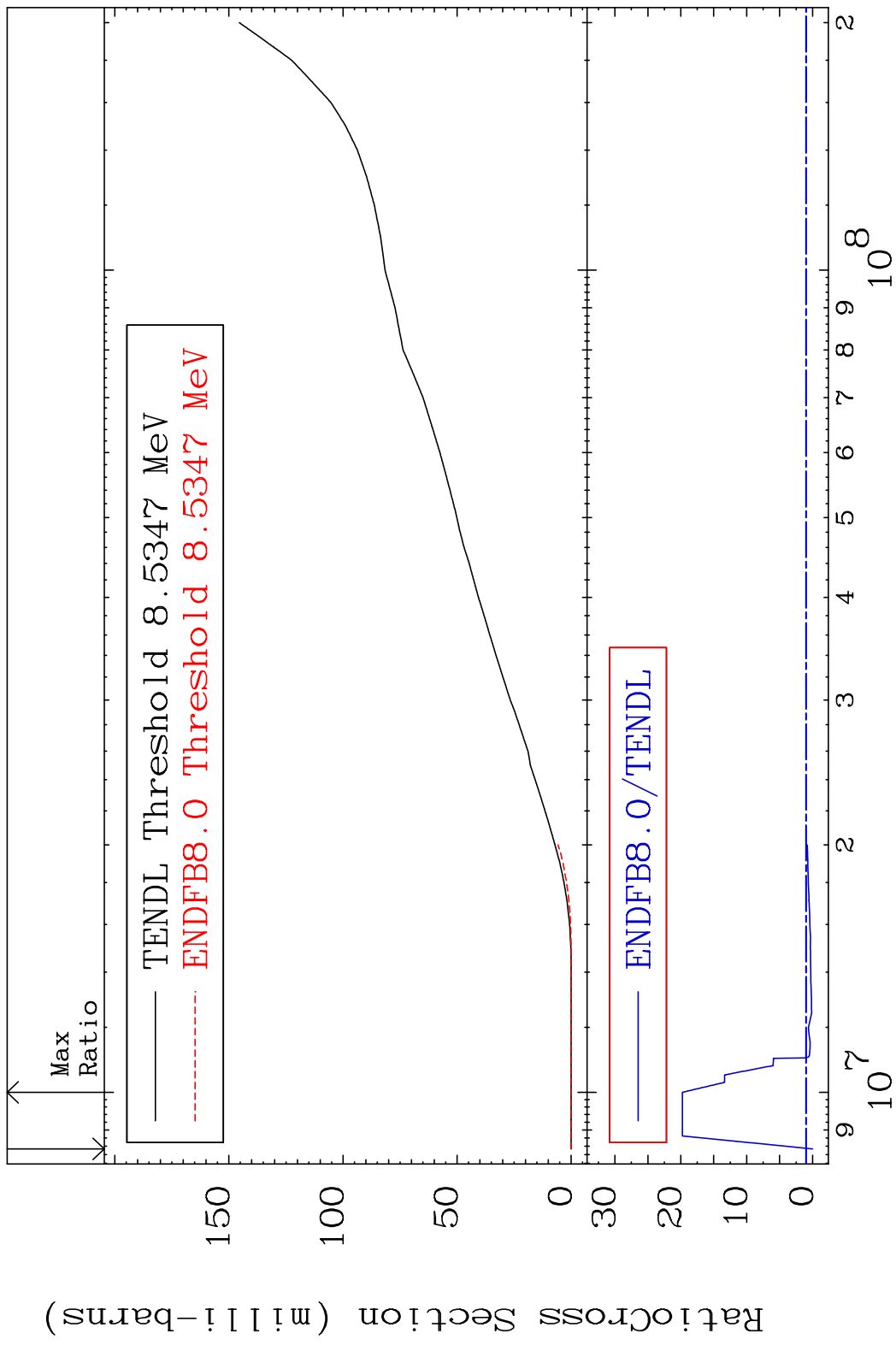


32 Incident Energy (eV) 50-Sn-120

MAT 5049 Hydrogen Production 50-Sn-120  
 Cross Section -94.90 To 9999. %

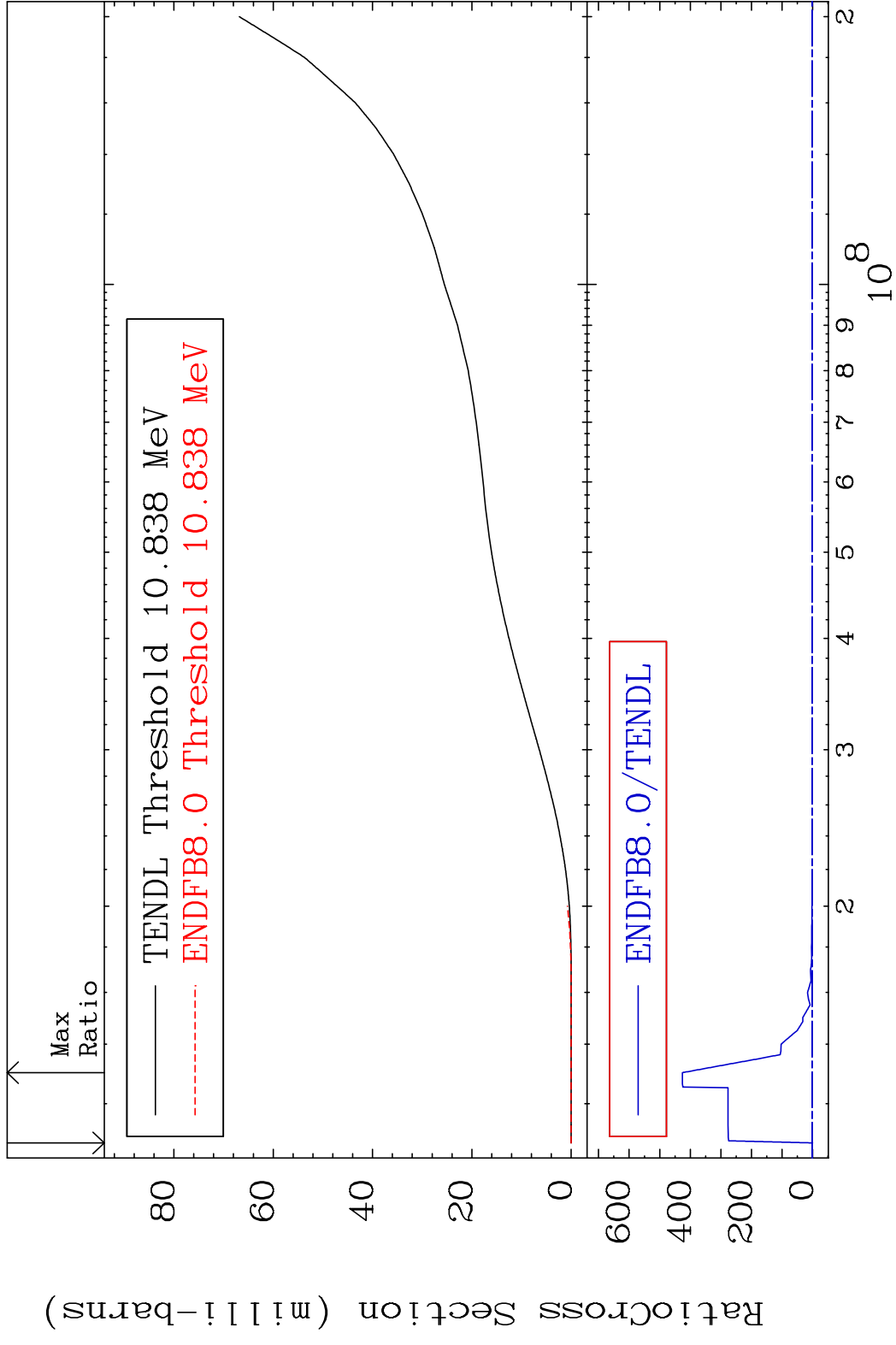


MAT 5049 Deuterium Production 50-Sn-120  
 Cross Section -100.0 To 1877. %



34 Incident Energy (eV) 50-Sn-120

MAT 5049 Tritium Production 50-Sn-120  
 Cross Section -100.0 To 9999. %

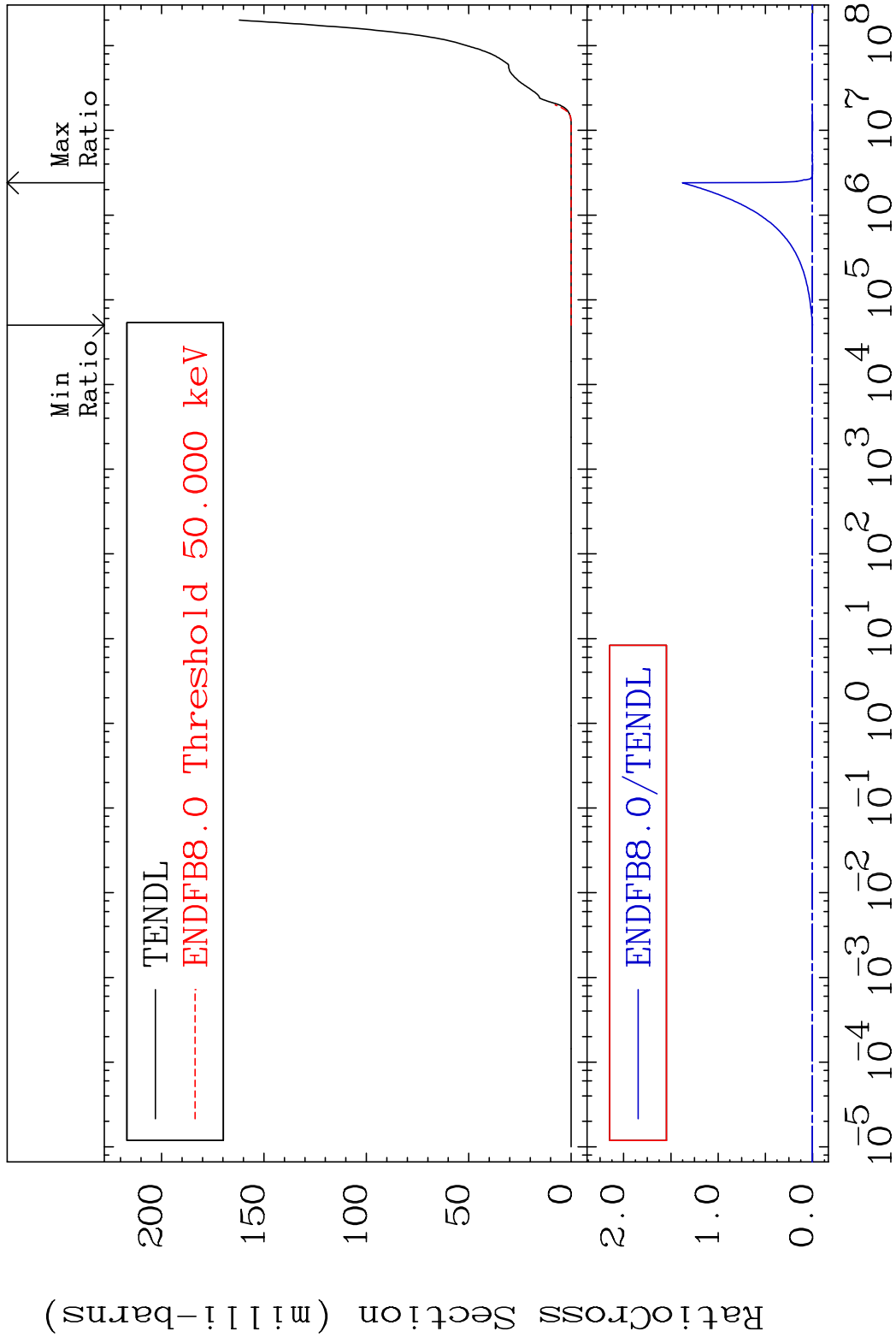


MAT 5049

He-4 Production

50-Sn-120

Cross Section -100.0 To 9999. %

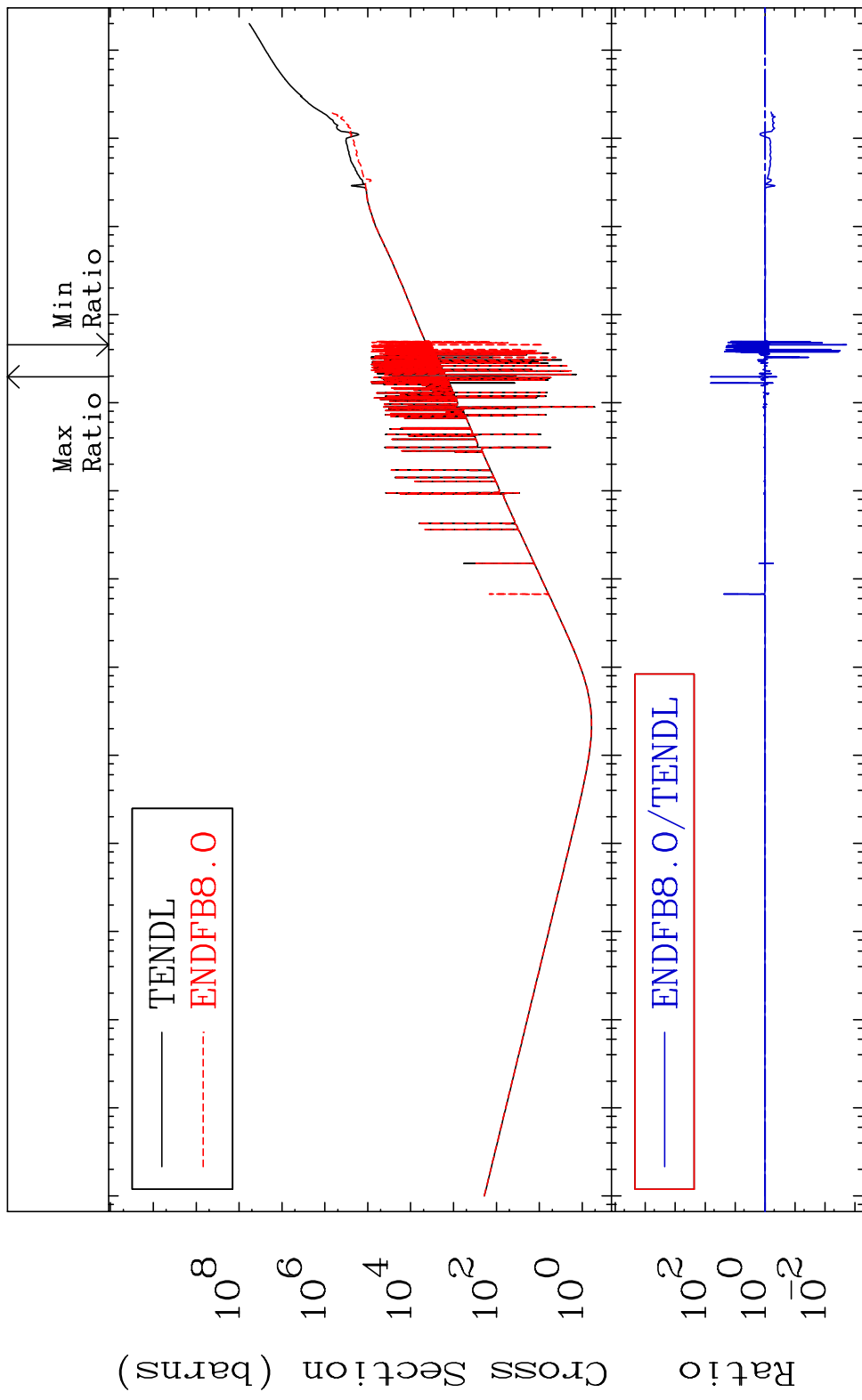


36

Incident Energy (eV)

50-Sn-120

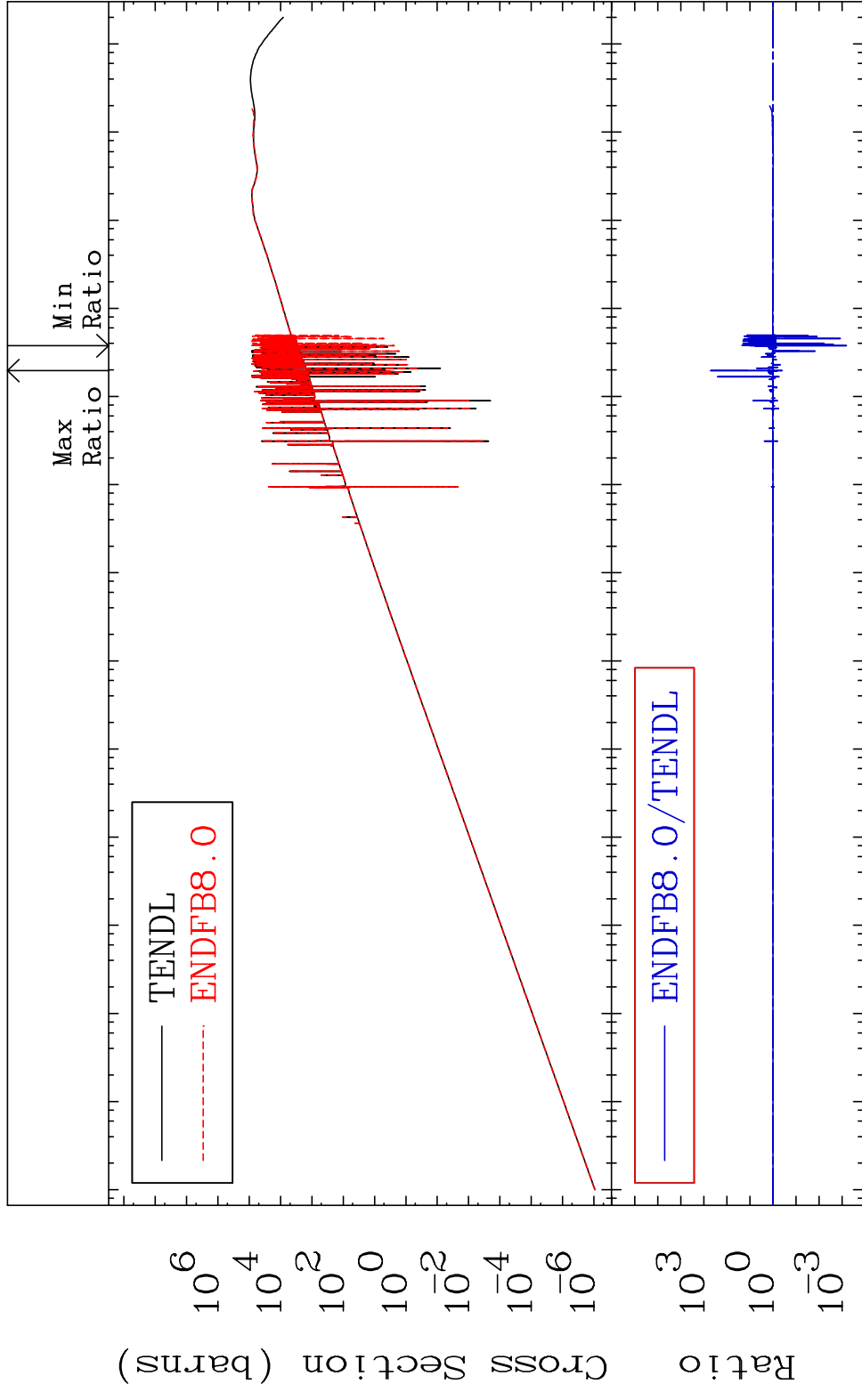
MAT 5049 Kerma total (eV-barns) 50-Sn-120  
 Cross Section -99.81 To 6428. %



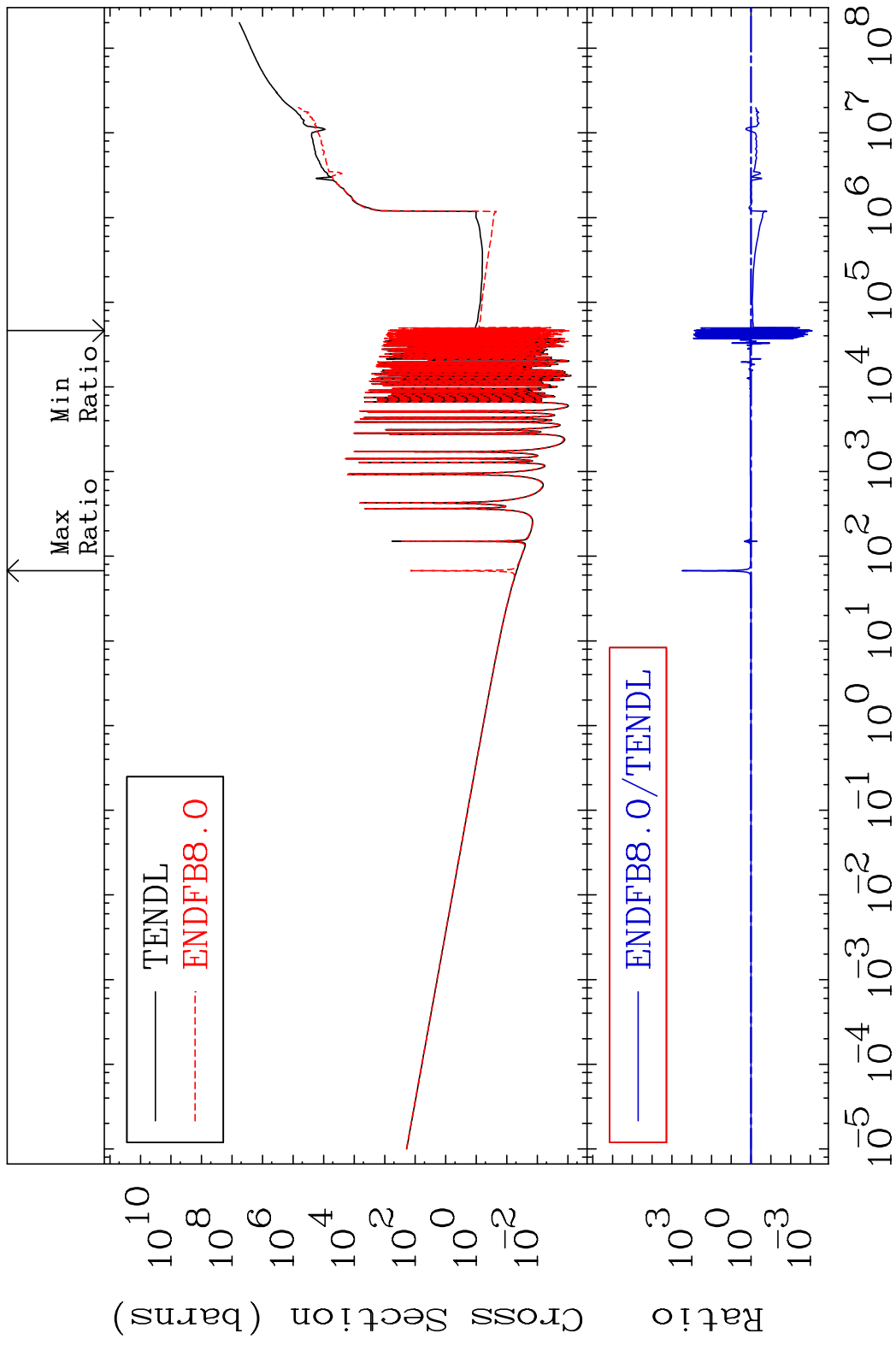
MAT 5049

Kerma elastic  
Cross Section

50-Sn-120  
-99.93 To 9999. %



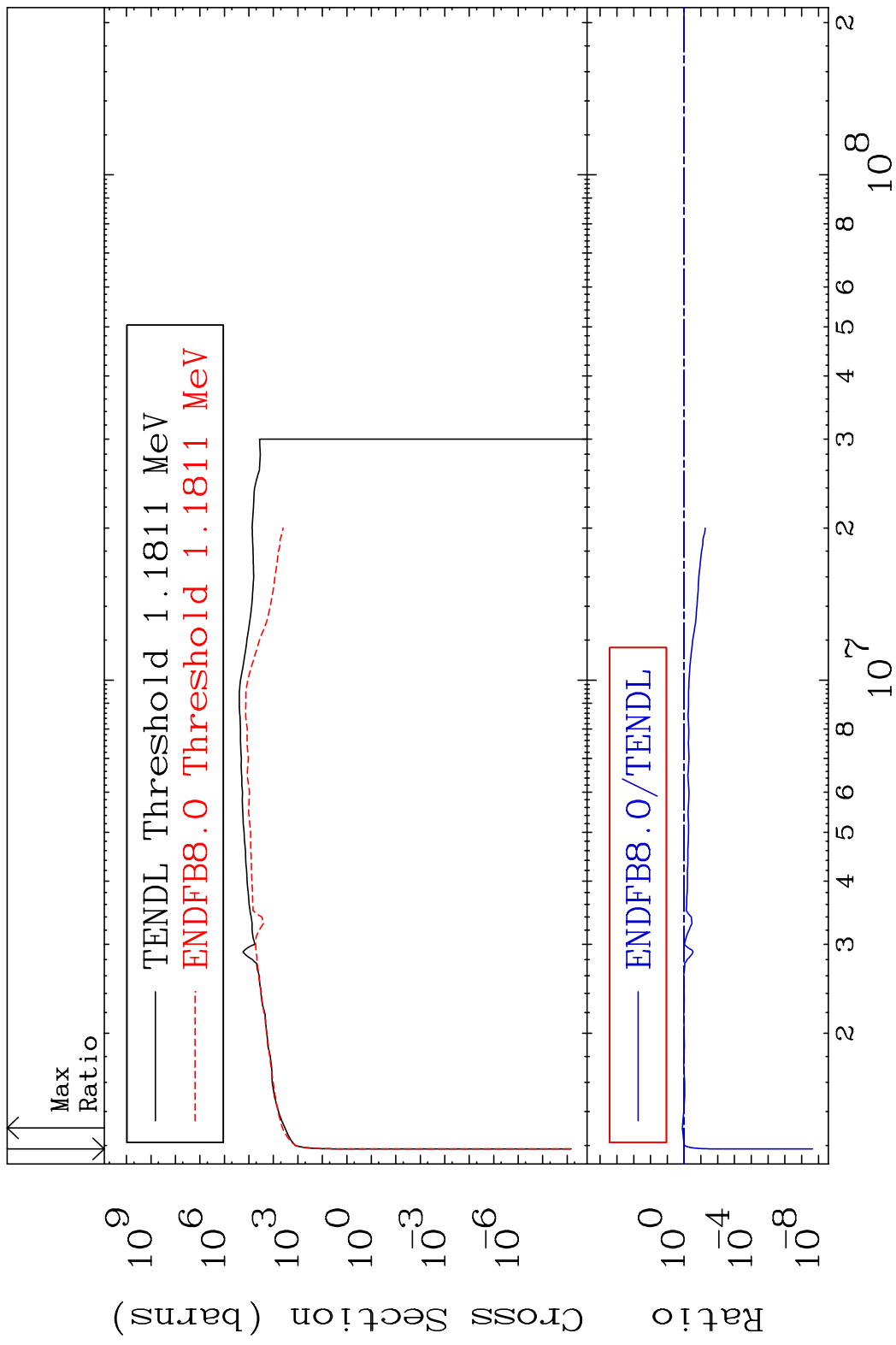
MAT 5049 Kerma non-elastic (all but mt2) 50-Sn-120  
 Cross Section -99.92 To 9999. %



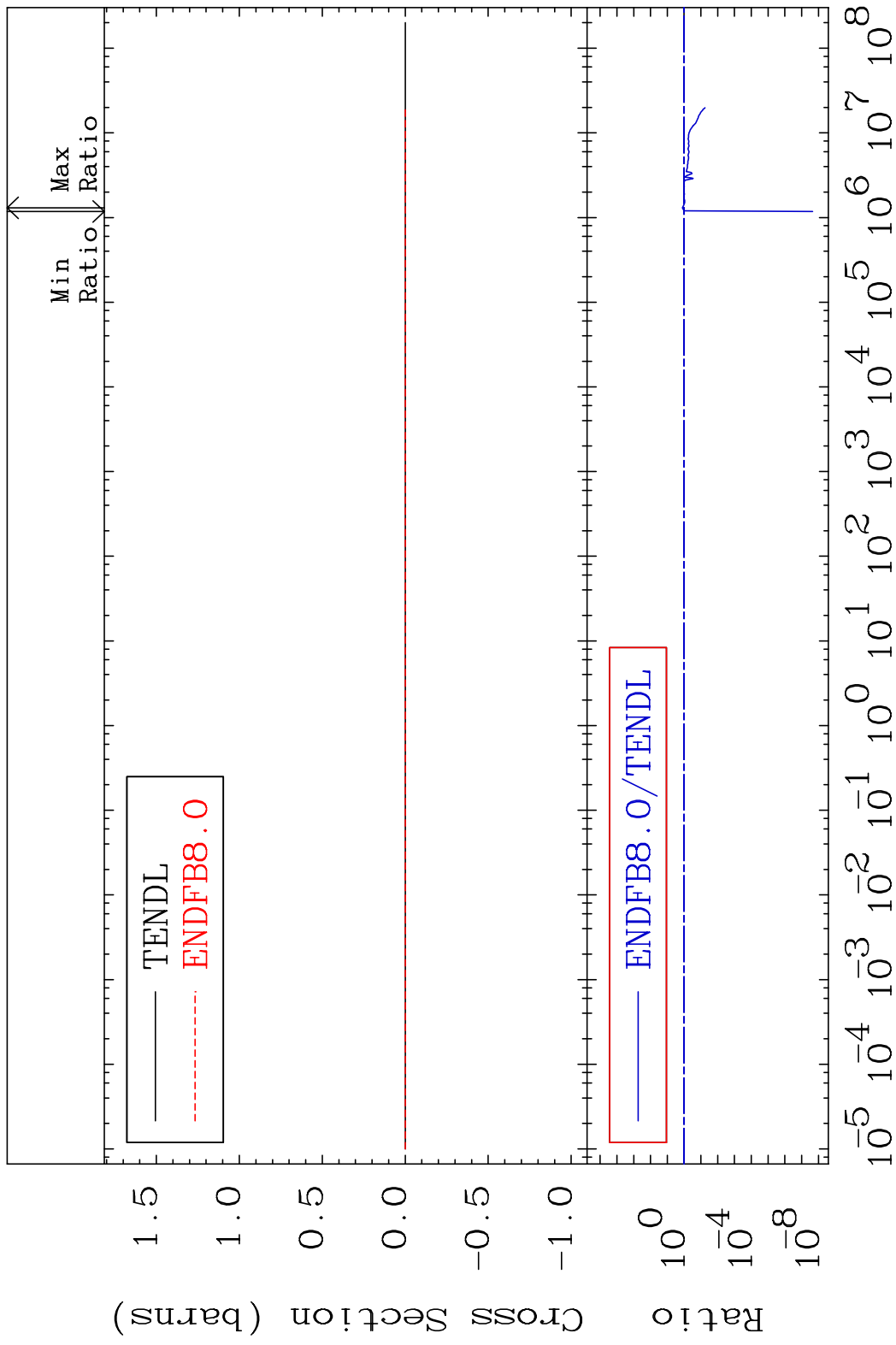
39 Incident Energy (eV) 50-Sn-120



MAT 5049 Kerma inelastic (mt51-91) 50-Sn-120  
 Cross Section -100.0 To 26.77 %



MAT 5049 Kerma fission (mt18 or mt19-20-21-38) 50-Sn-120  
 Cross Section -100.0 To 26.77 %

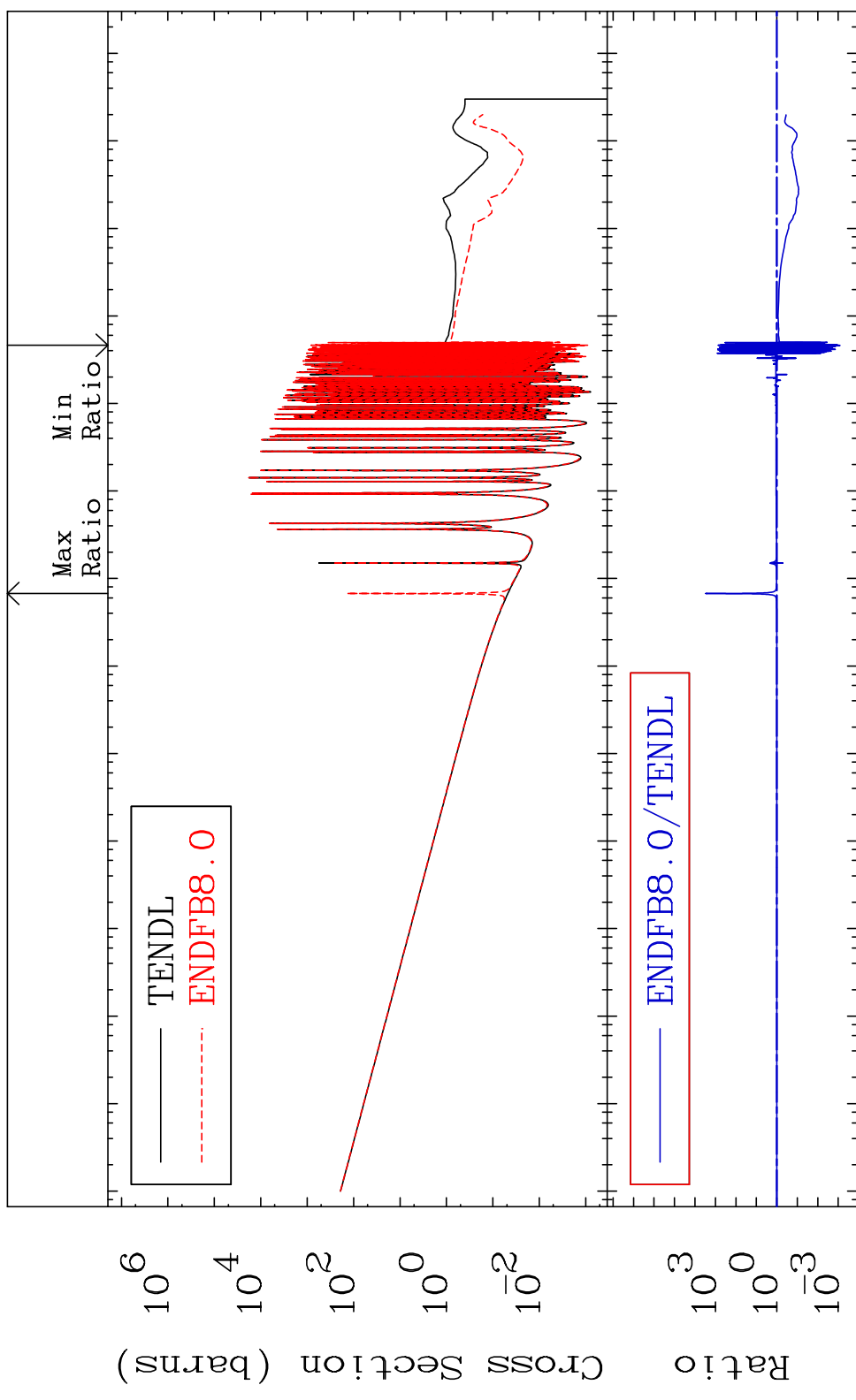


MAT 5049

Kerma capture (mt102)

50-Sn-120

Cross Section -99.92 To 9999. %

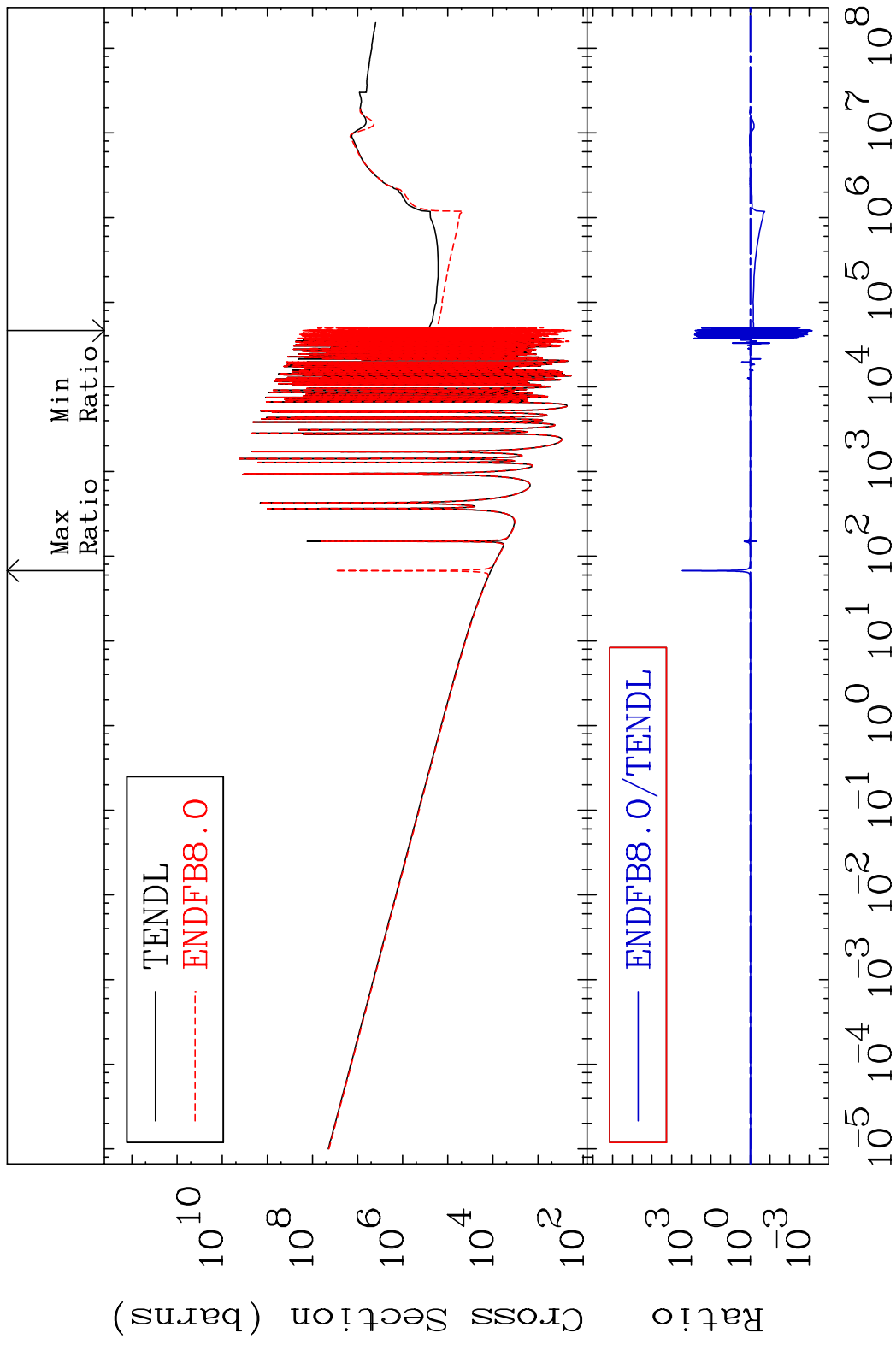


42

Incident Energy (eV)

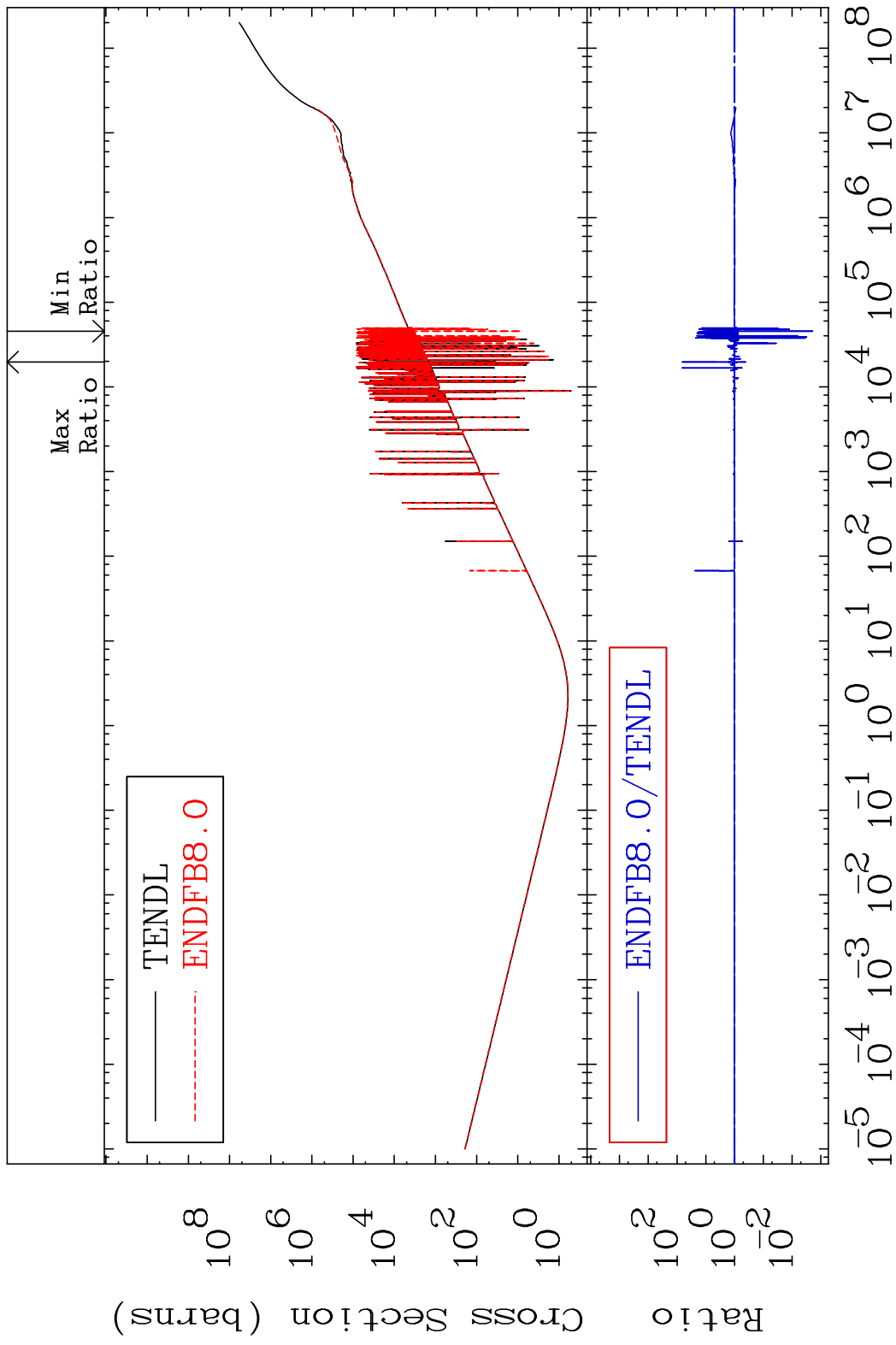
50-Sn-120

MAT 5049 Total photon (eV-barns) 50-Sn-120  
 Cross Section -99.93 To 9999. %

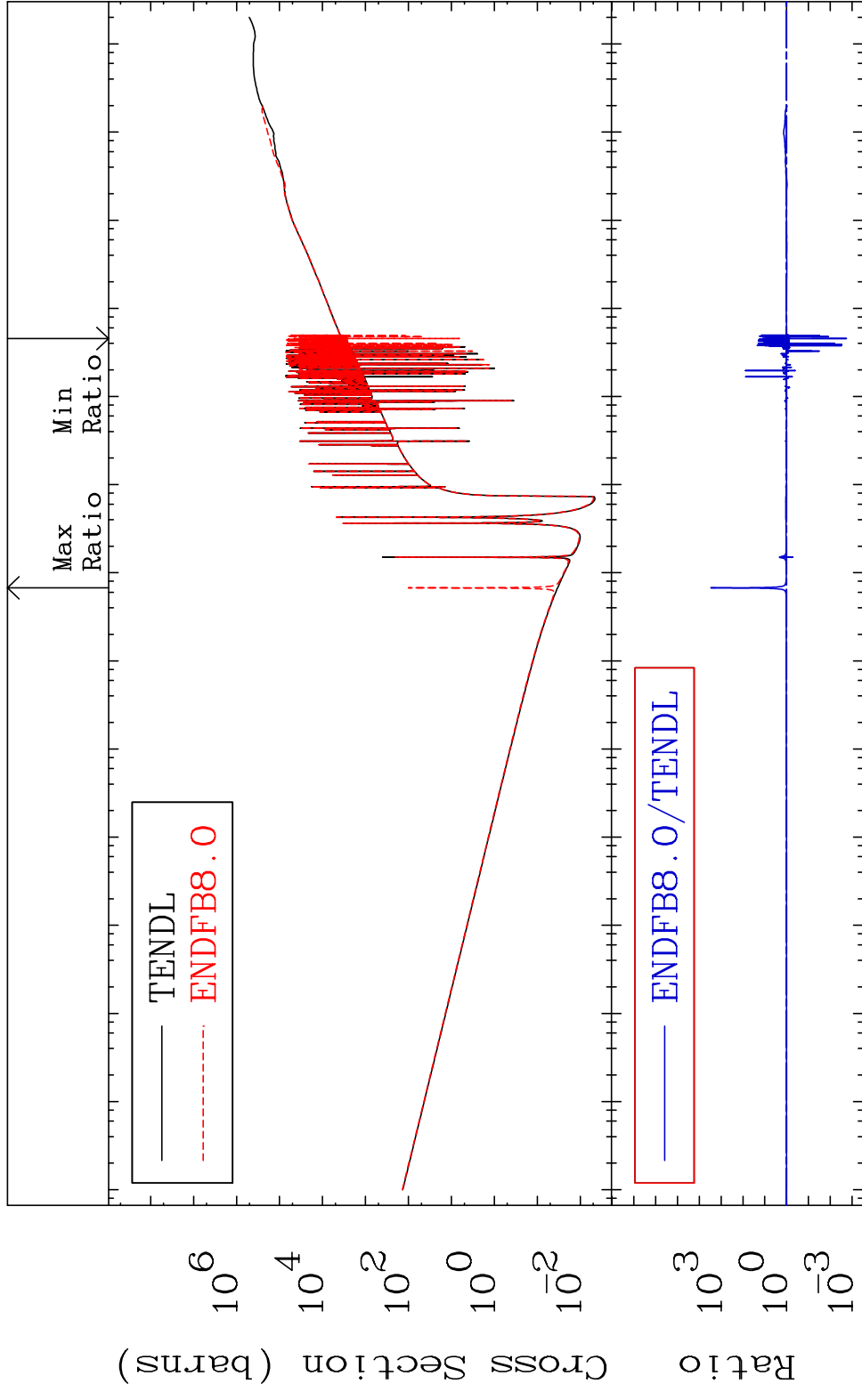


43 Incident Energy (eV) 50-Sn-120

MAT 5049 Total kinematic kerma (high limit) 50-Sn-120  
 Cross Section -99.81 To 6428. %



MAT 5049      Dpa total (eV-barns)      50-Sn-120  
 Cross Section      -99.82 To 9999. %

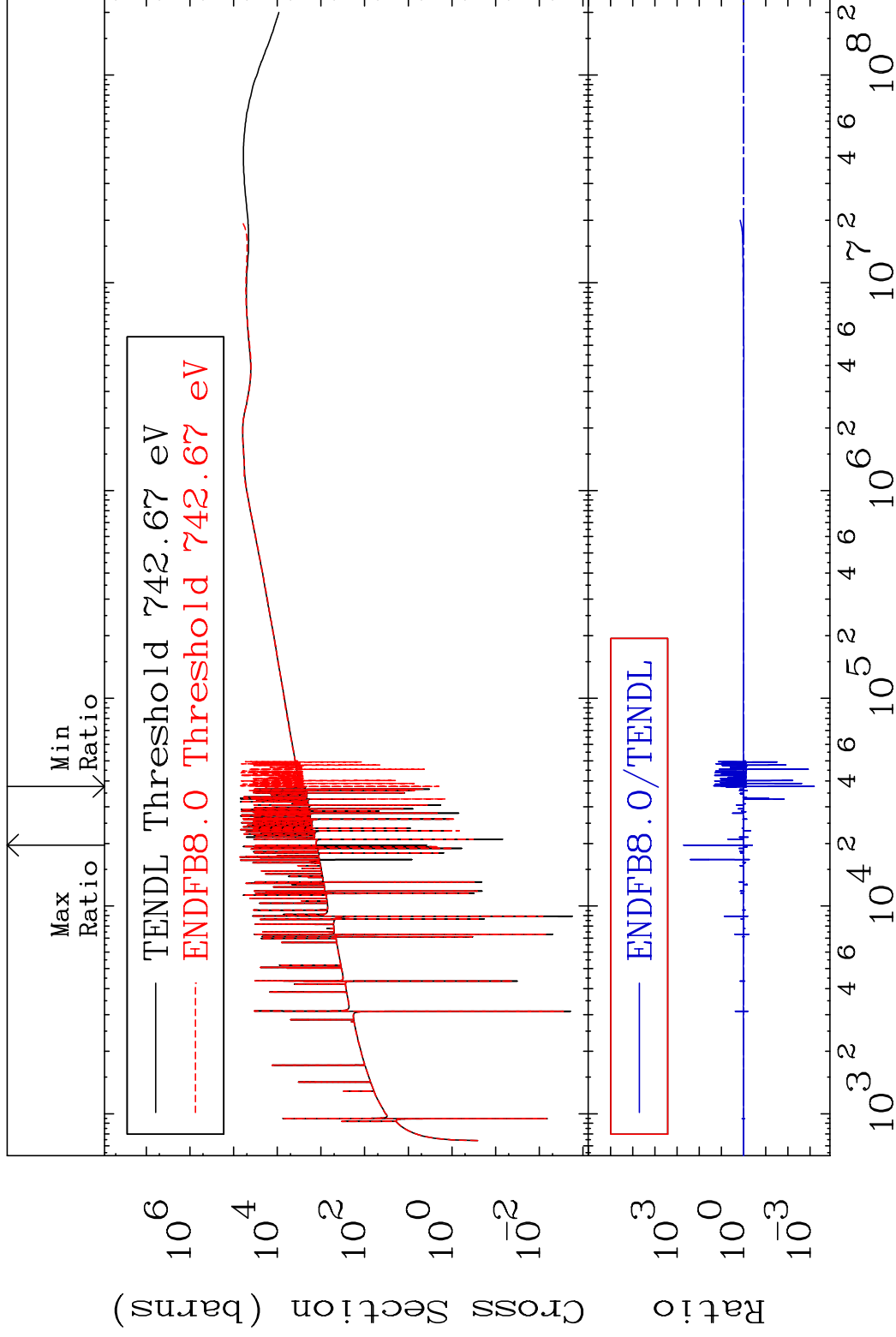


MAT 5049

Dpa elastic (mt2)

50-Sn-120

Cross Section -99.93 To 9999. %

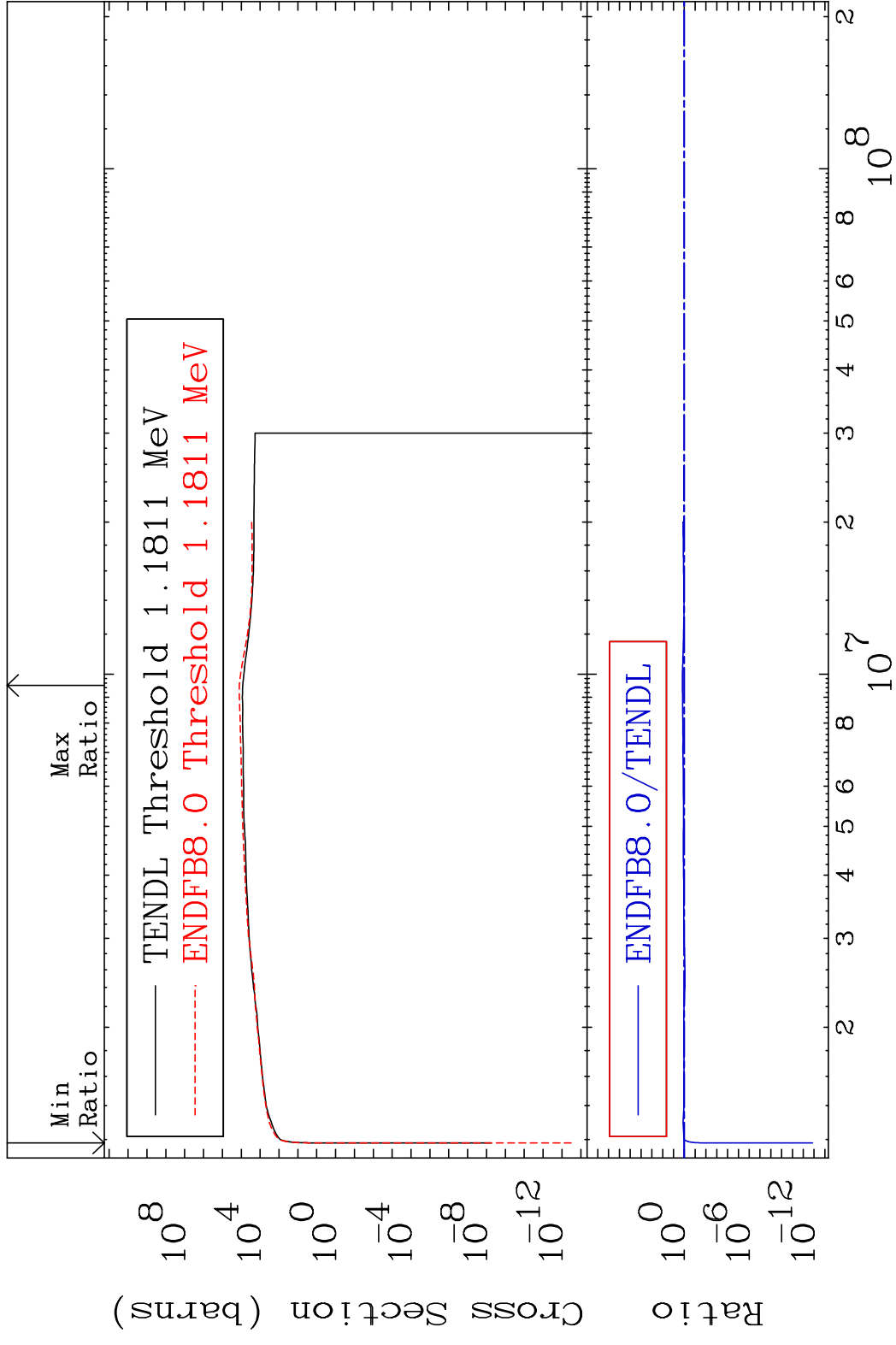


46

Incident Energy (eV)

50-Sn-120

MAT 5049 Dpa inelastic (mt51-91) 50-Sn-120  
 Cross Section -100.0 To 51.38 %





MAT 5049 Dpa disappearance (mt102 -120) 50-Sn-120  
 Cross Section -99.92 To 9999. %

