

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

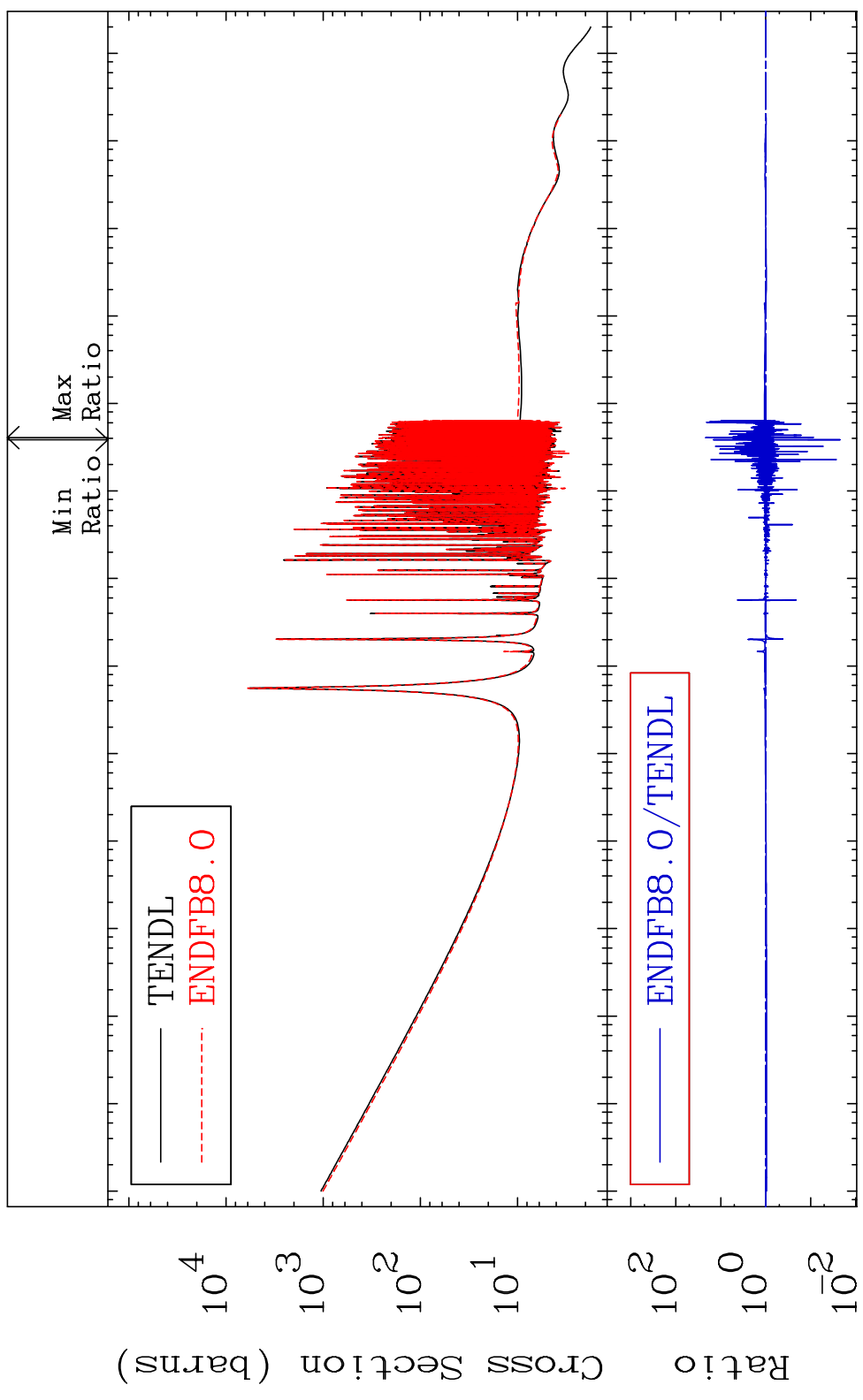
Press Mouse Button to Start

MAT 4325

Total

43-Tc-99

Cross Section -97.81 To 2061. %



1

Incident Energy (eV)

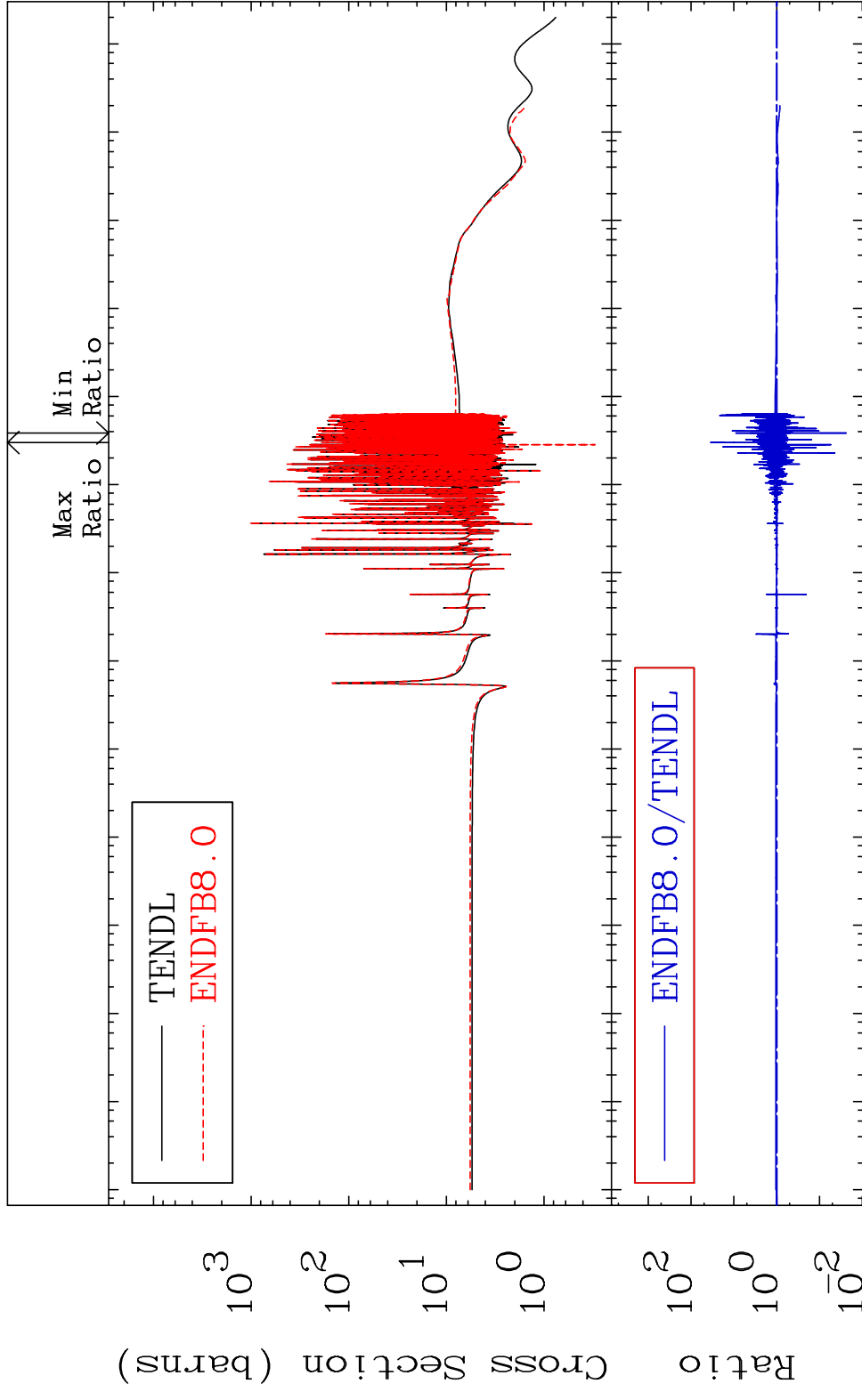
43-Tc-99

MAT 4325

Elastic

43-Tc-99

Cross Section -97.64 To 3383. %

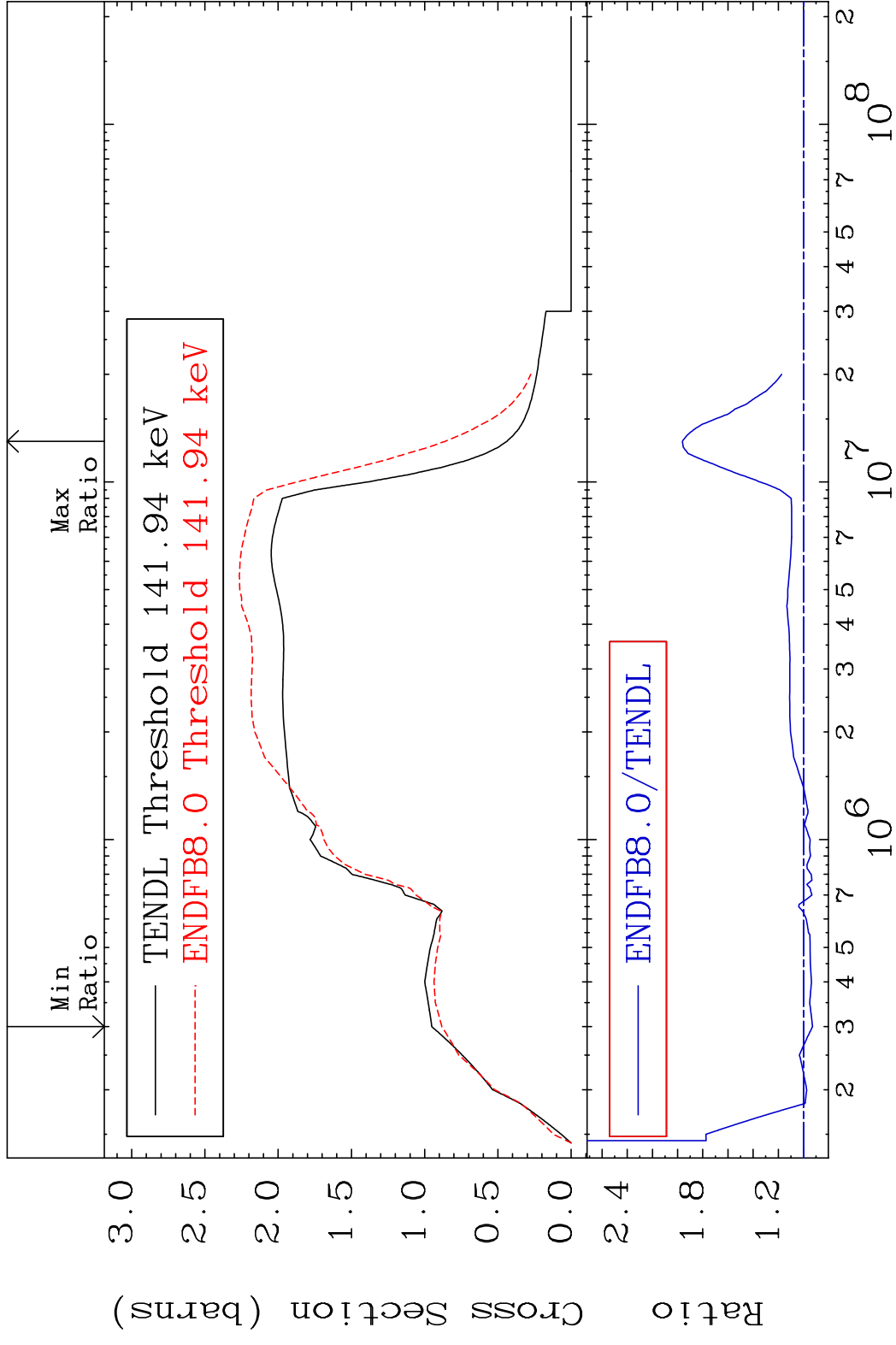


2

Incident Energy (eV)

43-Tc-99

MAT 4325 Inelastic 43-Tc-99  
 Cross Section -7.209 To 96.23 %

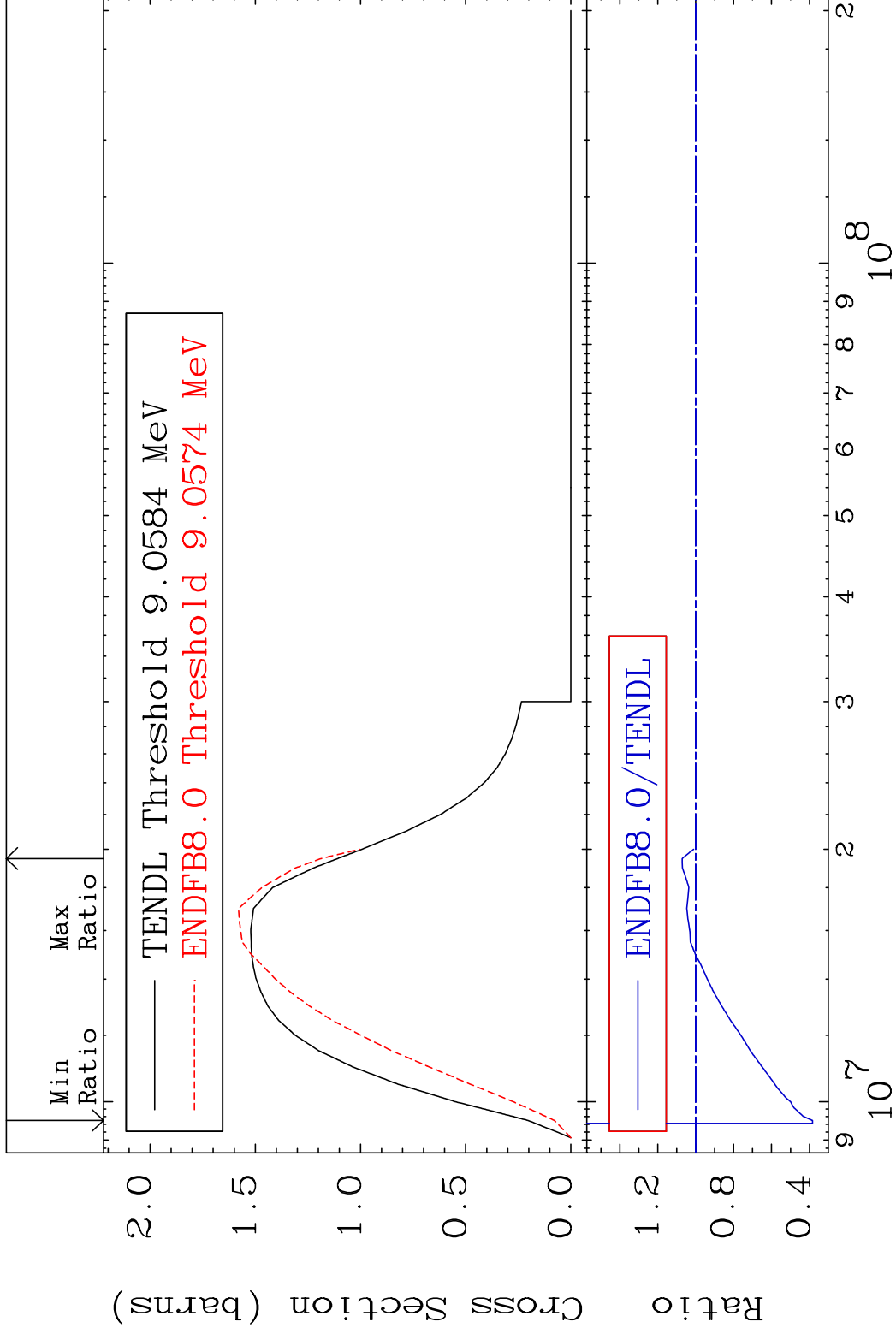


MAT 4325

(n,2n)

43-Tc-99

Cross Section -61.59 To 7.151 %

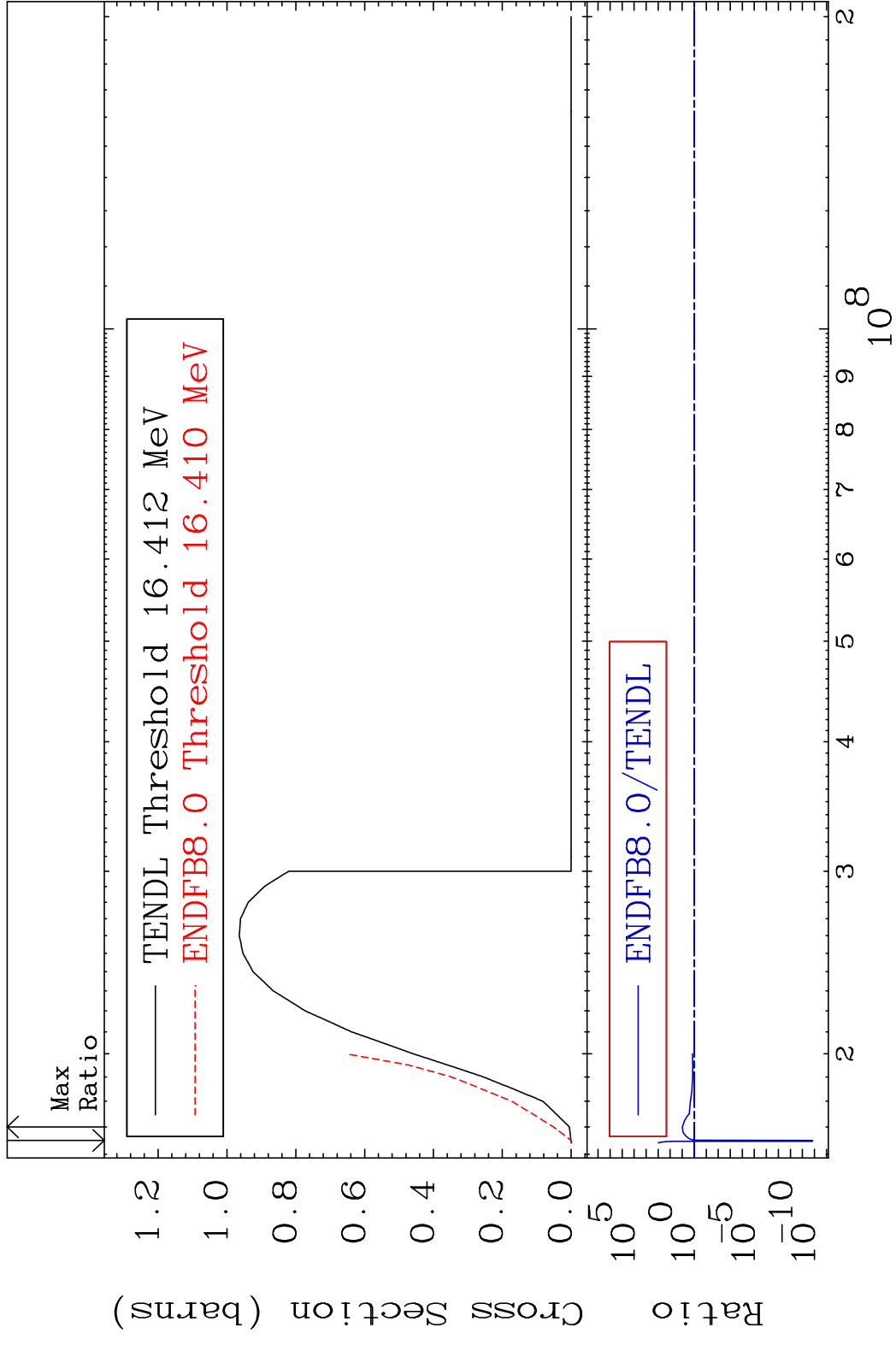


4

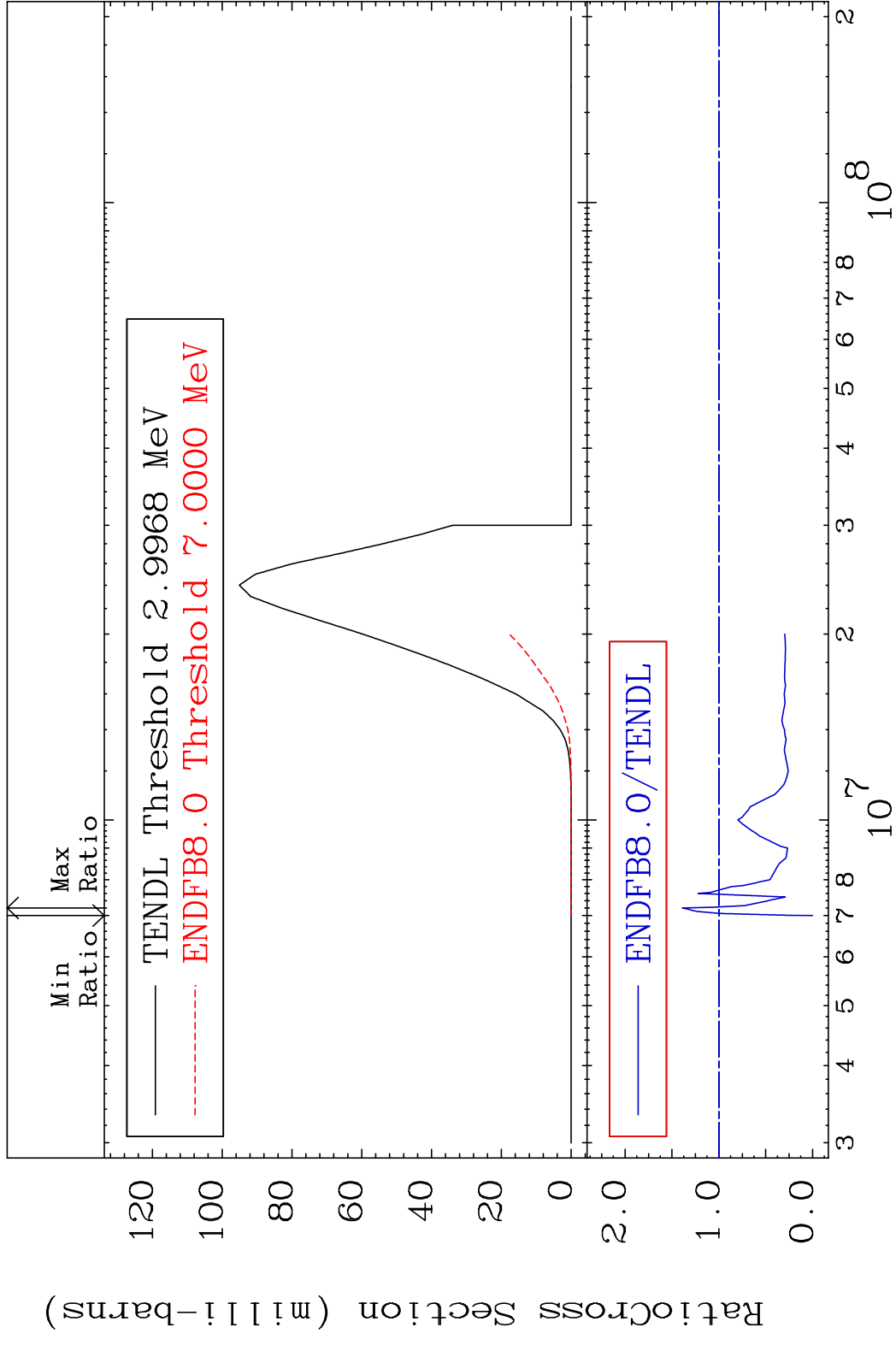
Incident Energy (eV)

43-Tc-99

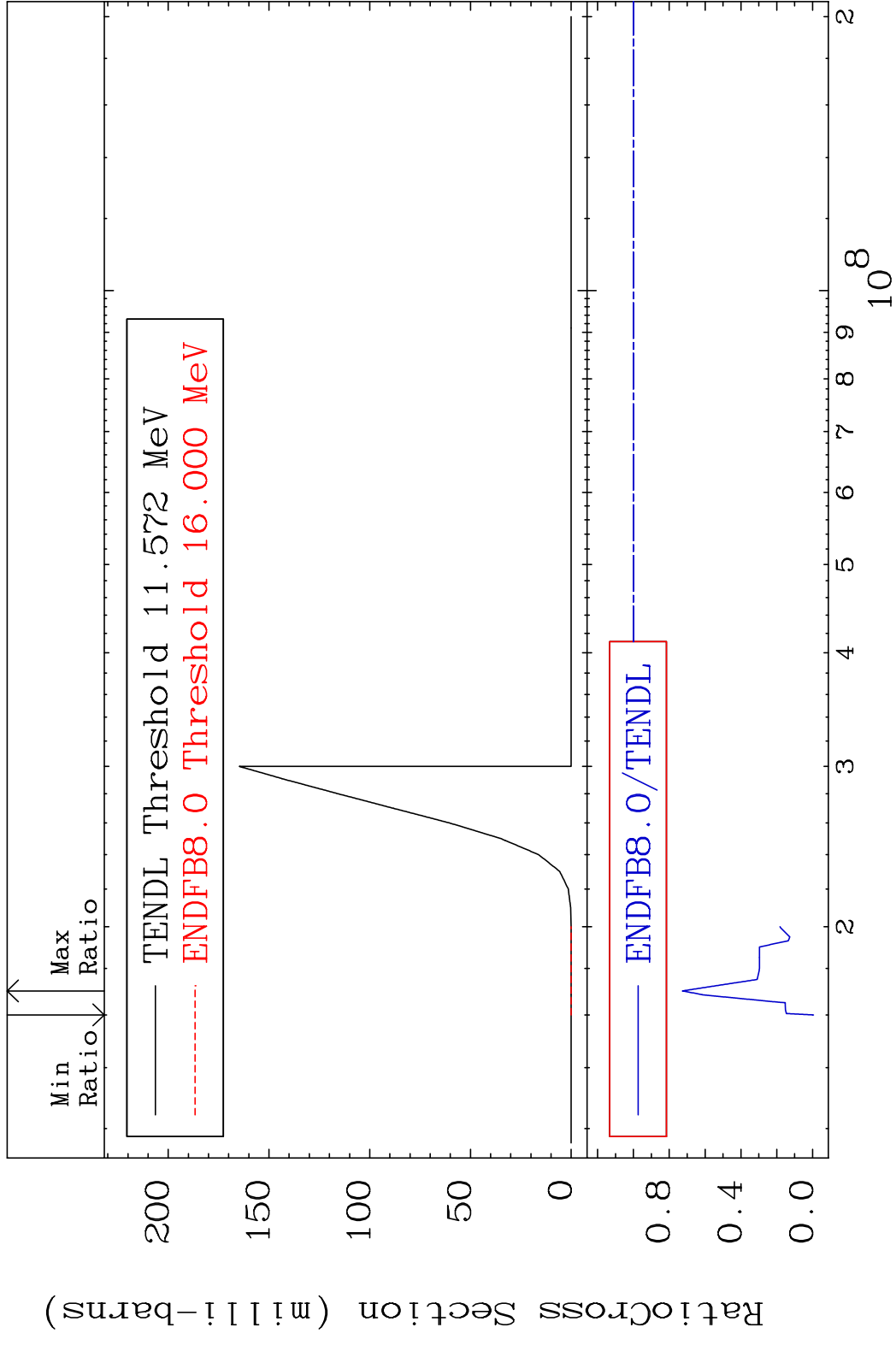
MAT 4325 (n,3n) 43-Tc-99  
 Cross Section -100.0 To 871.1 %



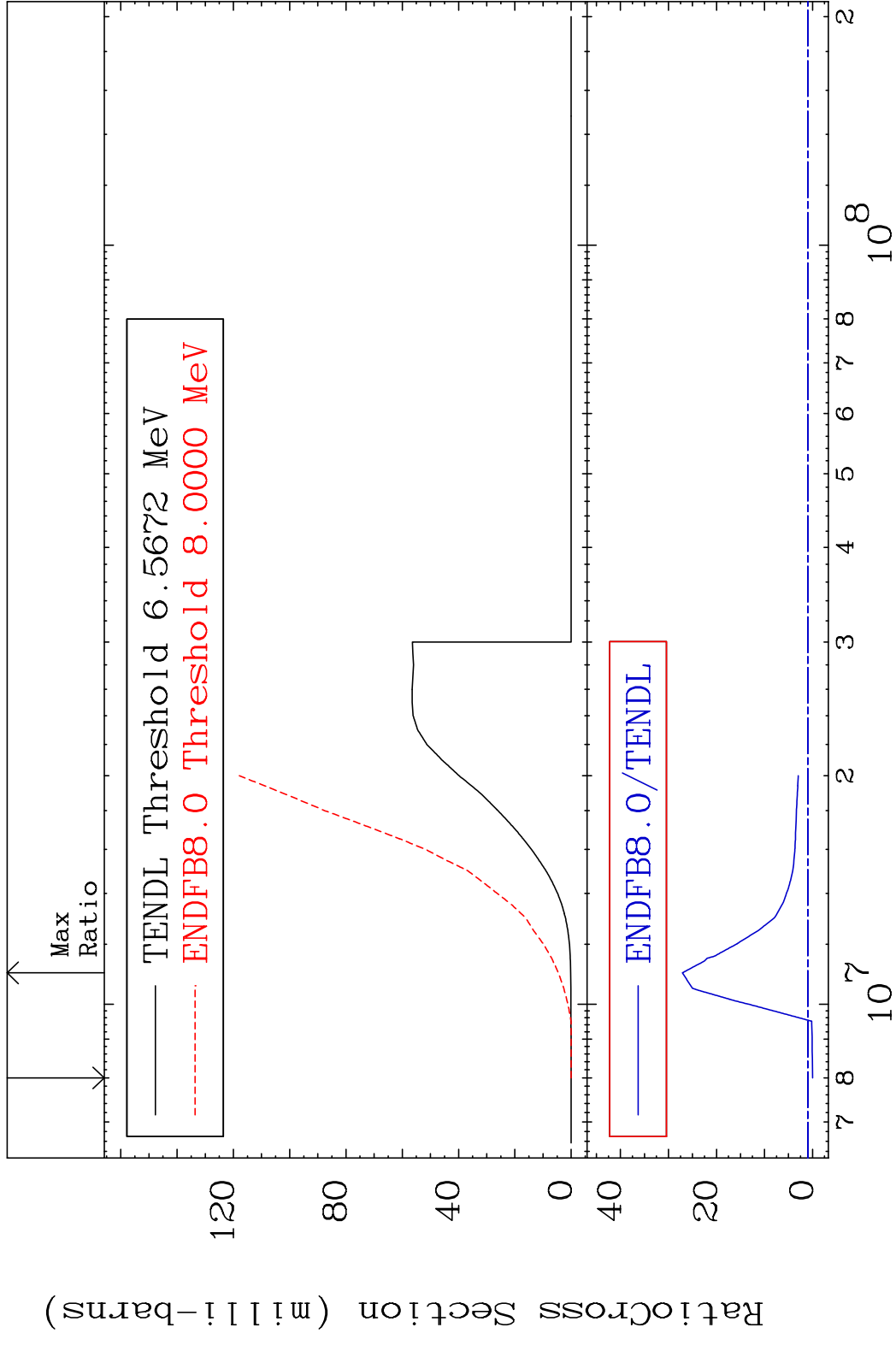
MAT 4325 (n, n')  $\alpha$  43-Tc-99  
 Cross Section -100.0 To 38.91 %



MAT 4325 (n,2n)  $\alpha$  43-Tc-99  
 Cross Section -100.0 To -27.31%



MAT 4325 (n, n') p 43-Tc-99  
 Cross Section -100.0 To 2611. %



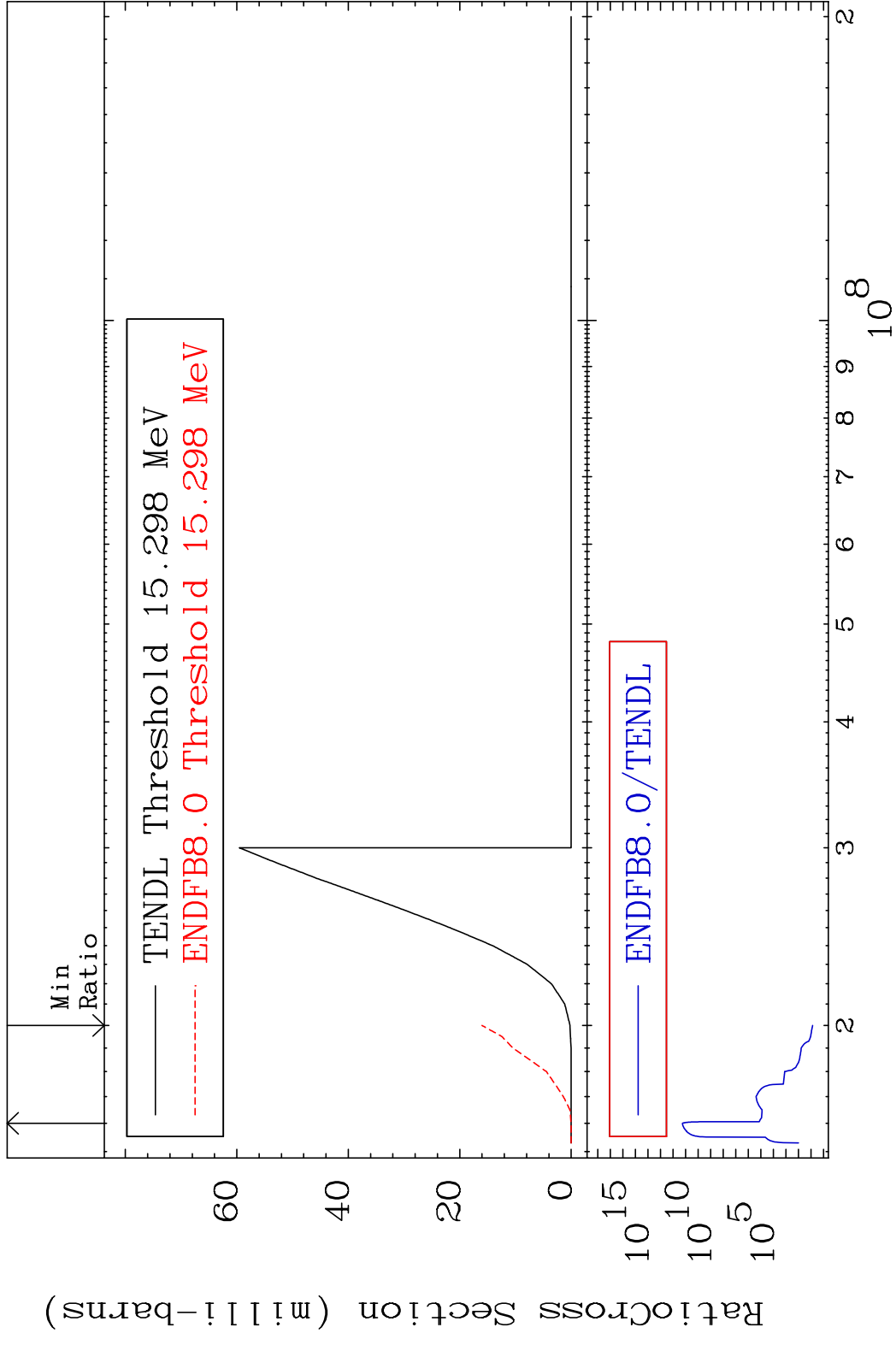
8 8 43-Tc-99

MAT 4325

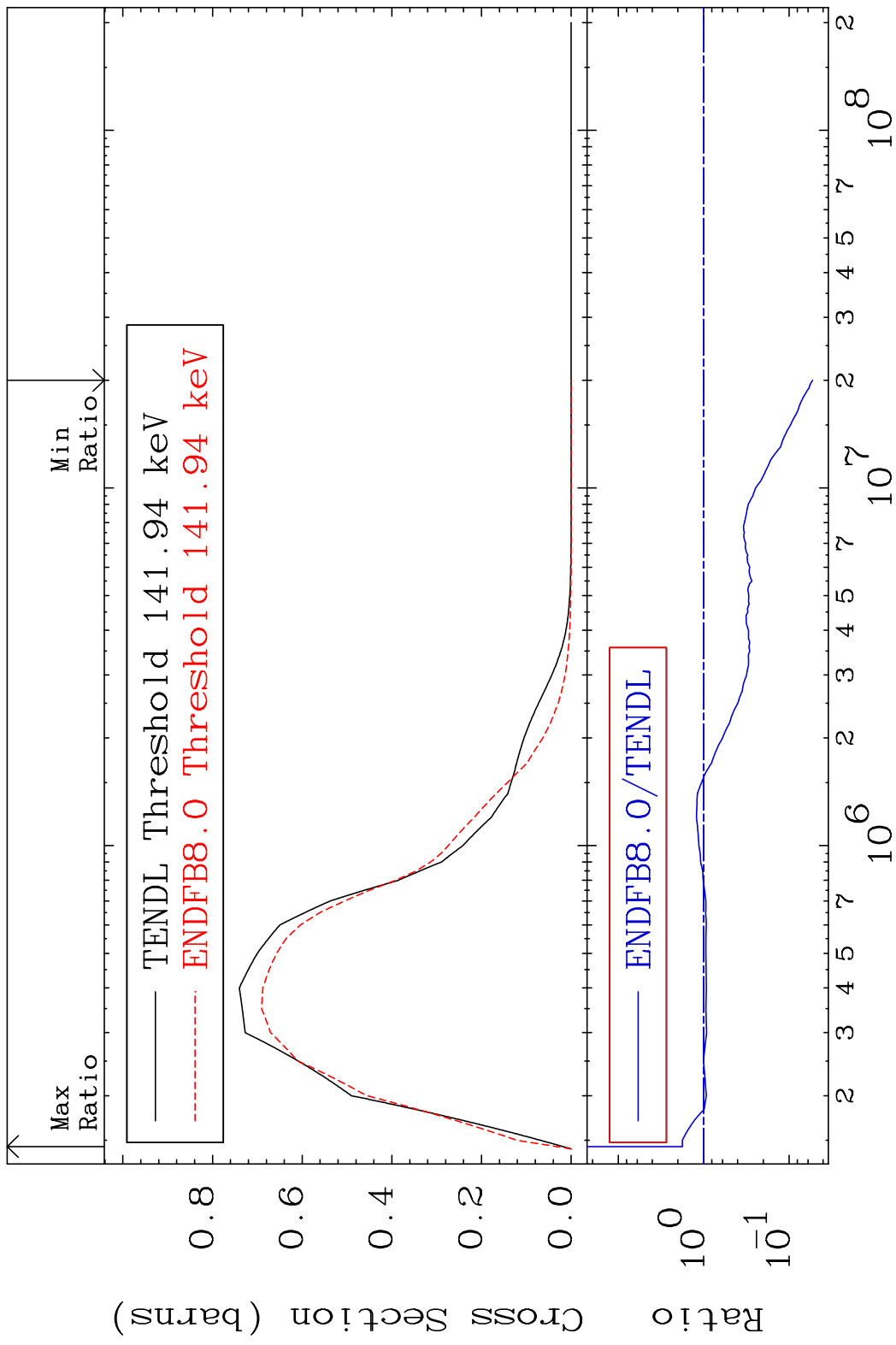
(n,2n) p

43-Tc-99

Cross Section 7414. To 9999. %

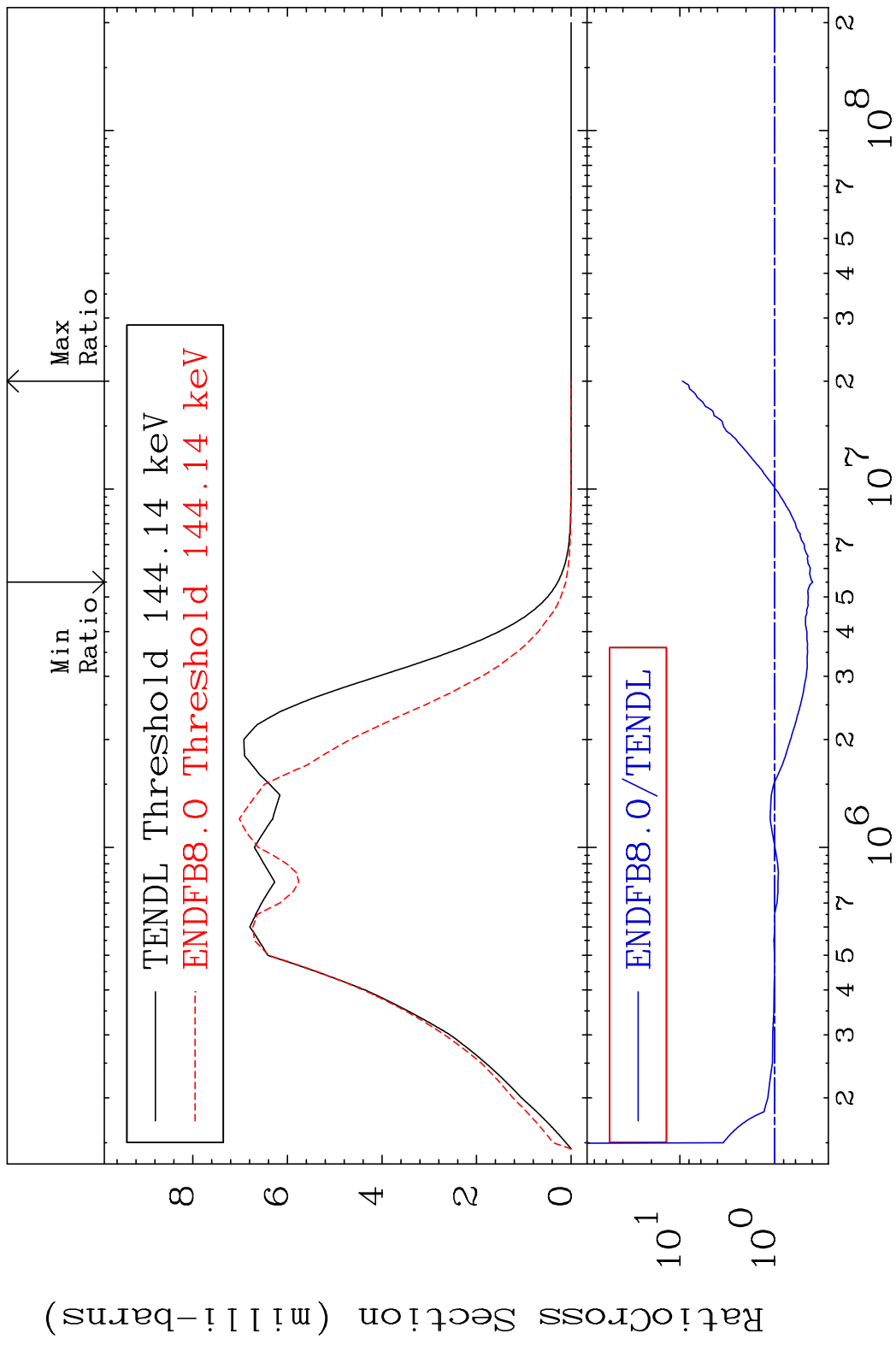


MAT 4325 MT= 51 (n,n') Level 43-Tc-99  
 Cross Section -94.70 To 77.38 %

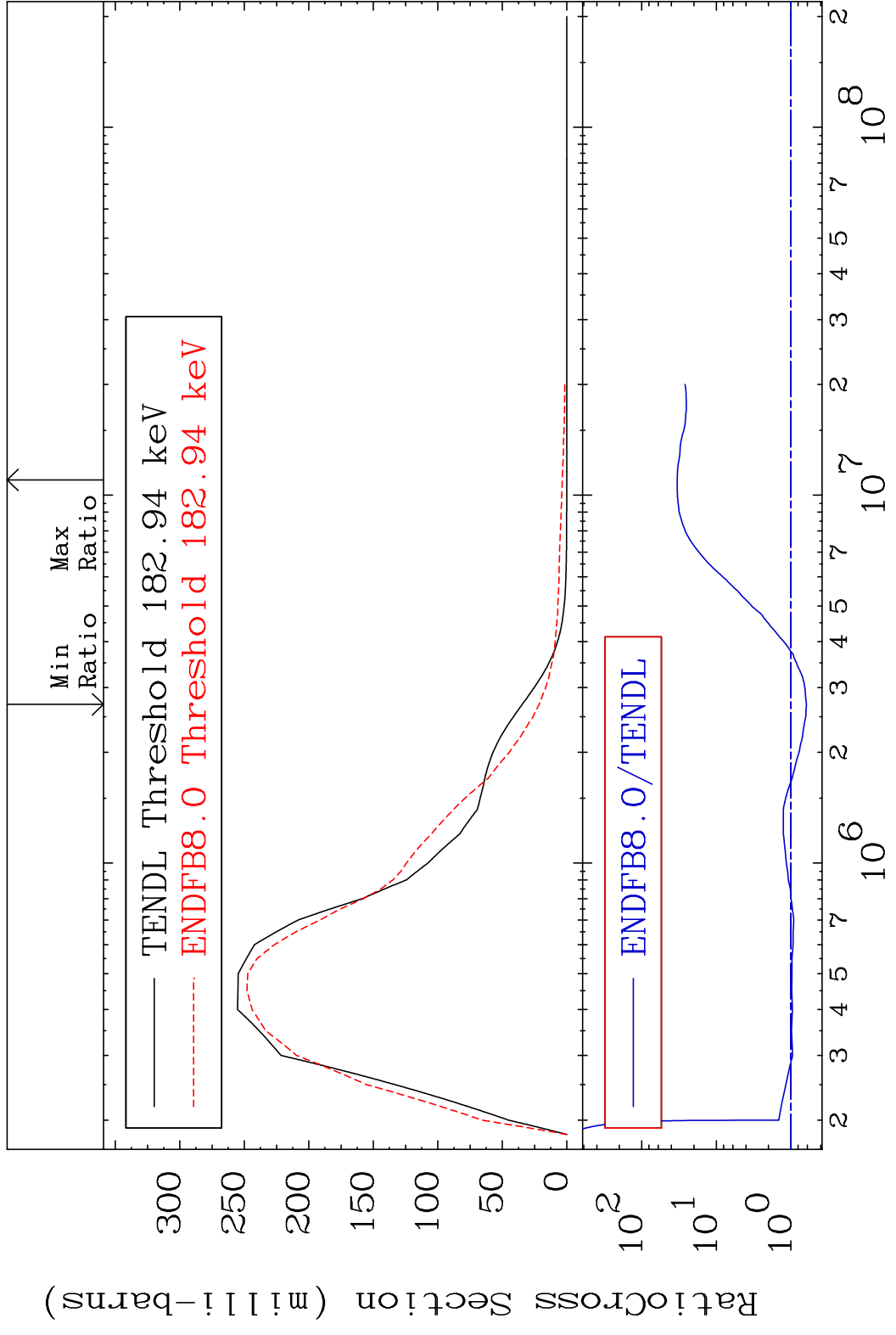


10 Incident Energy (eV) 43-Tc-99

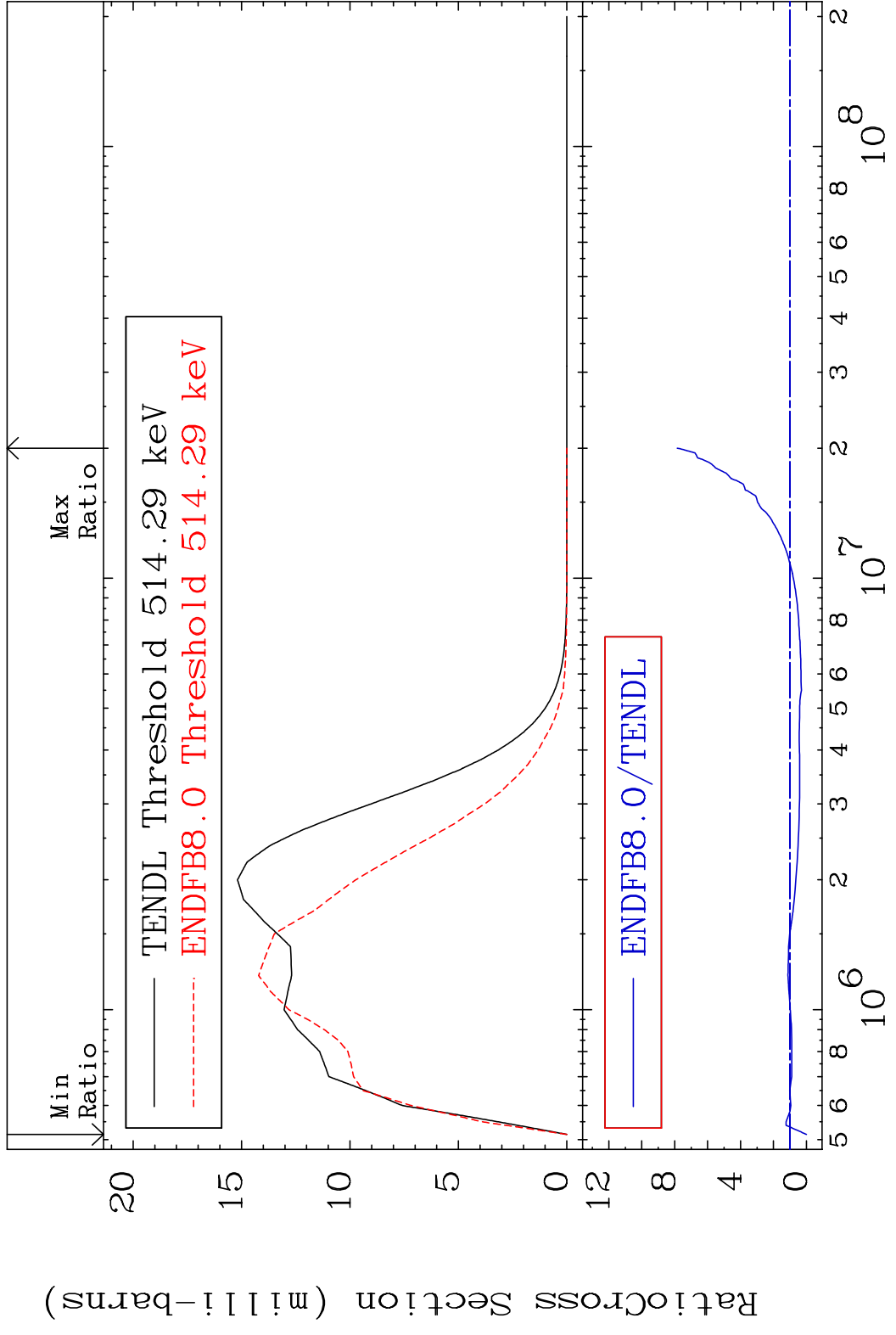
MAT 4325 MT= 52 (n, n') Level 43-Tc-99  
 Cross Section -60.45 To 840.3 %



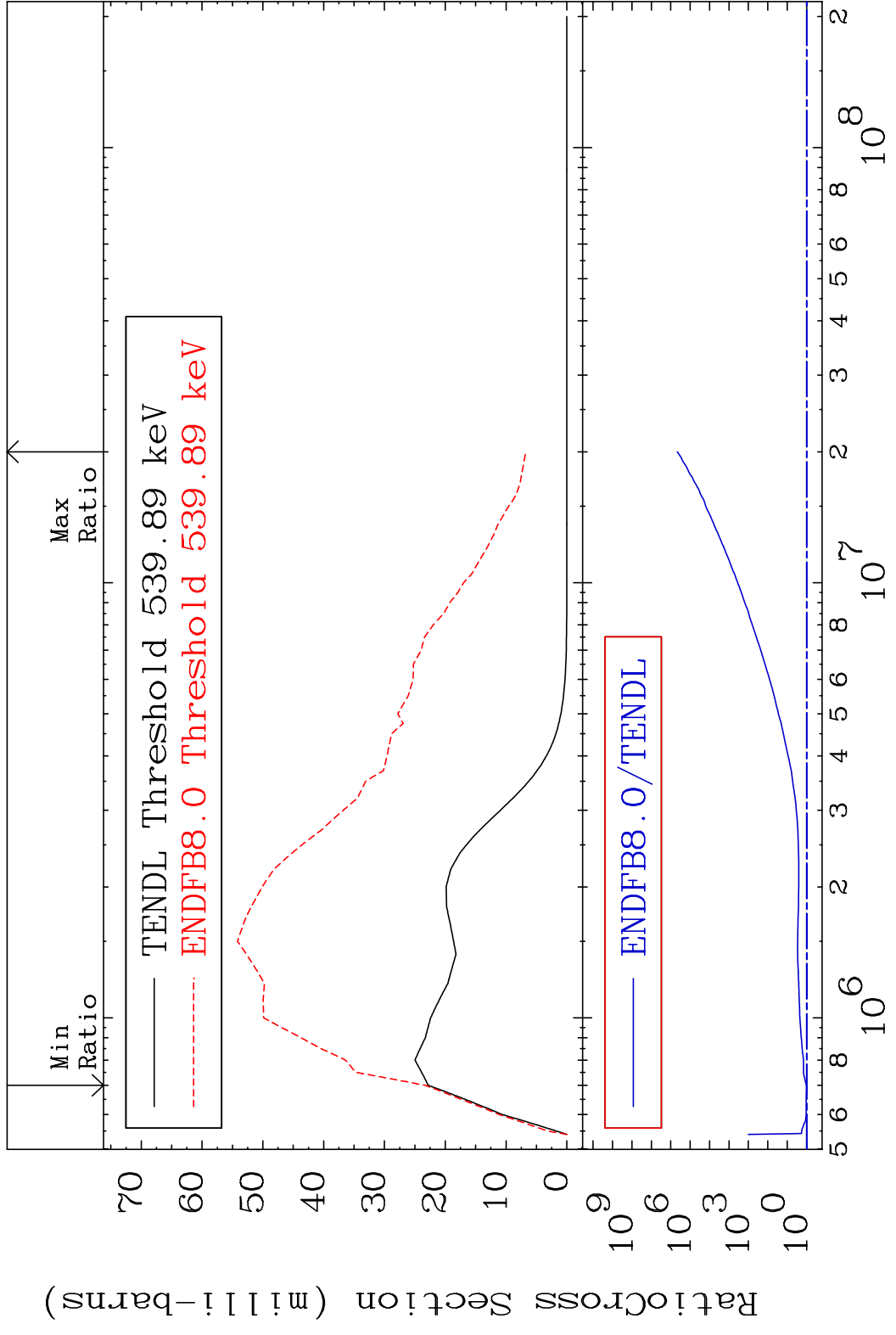
MAT 4325 MT= 53 (n, n') Level 43-Tc-99  
 Cross Section -37.99 To 3250. %



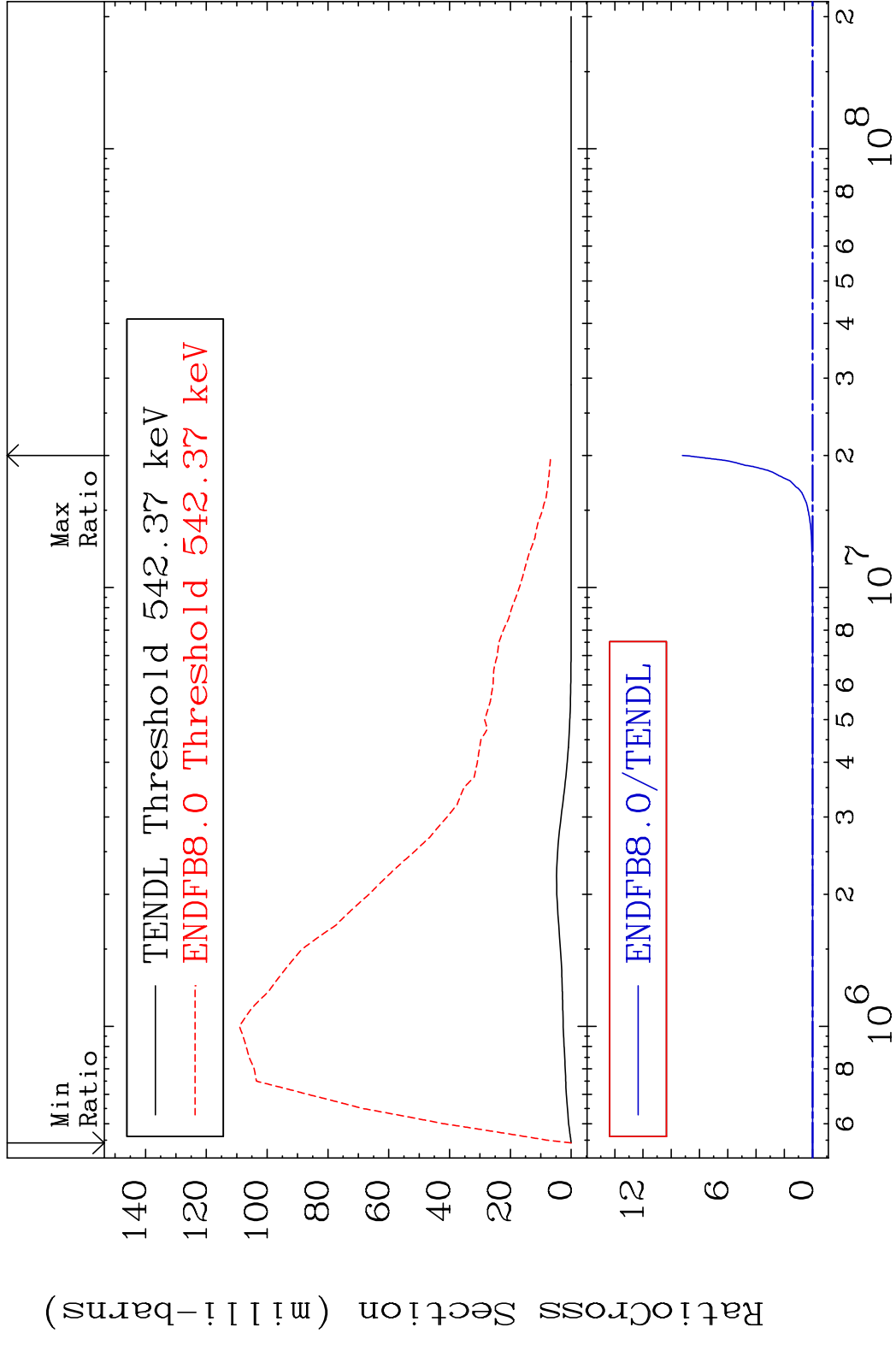
MAT 4325 MT= 54 (n, n') Level 43-Tc-99  
 Cross Section -100.0 To 685.0 %



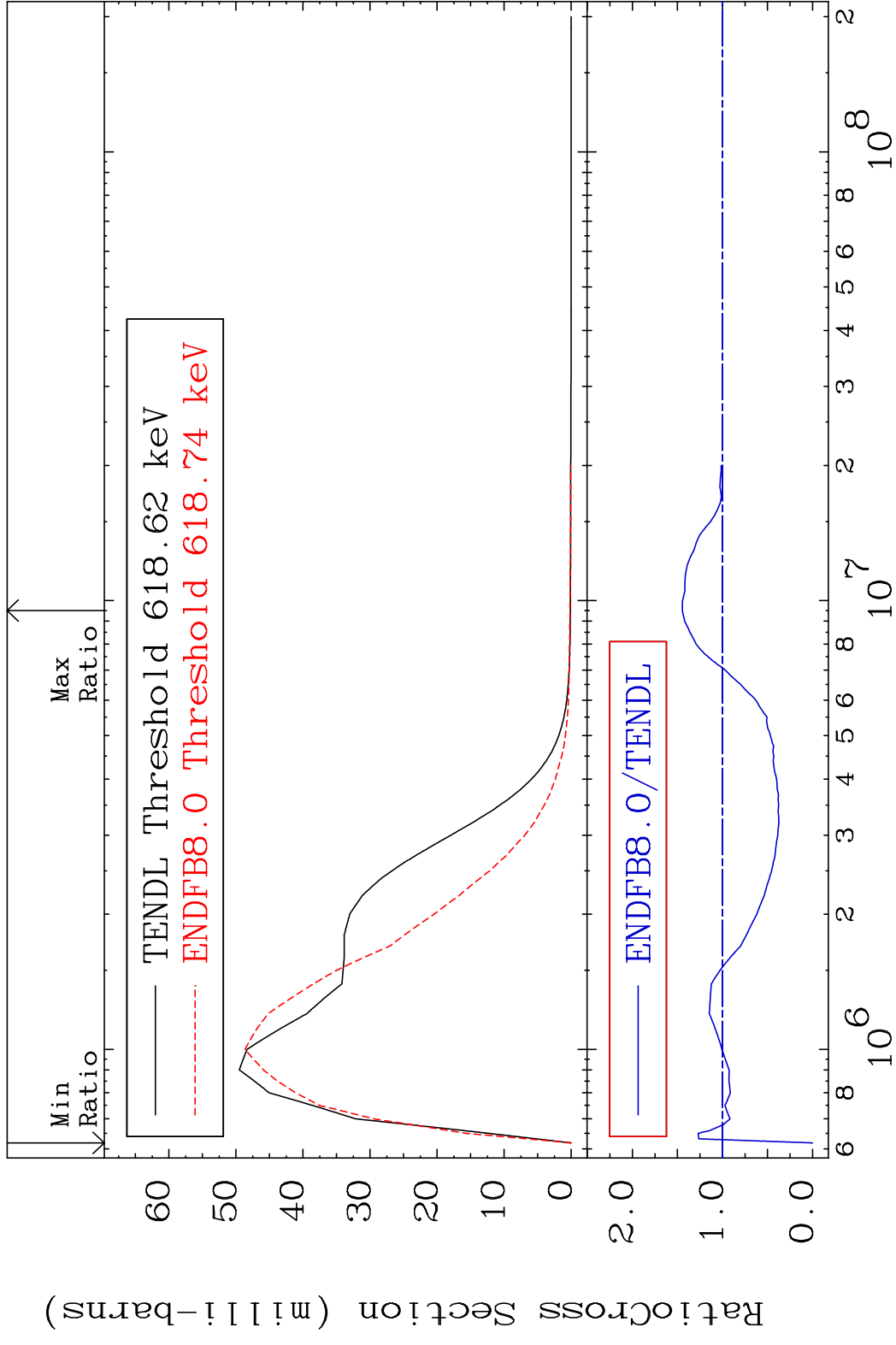
MAT 4325 MT= 55 (n, n') Level 43-Tc-99  
 Cross Section 2.124 To 9999. %



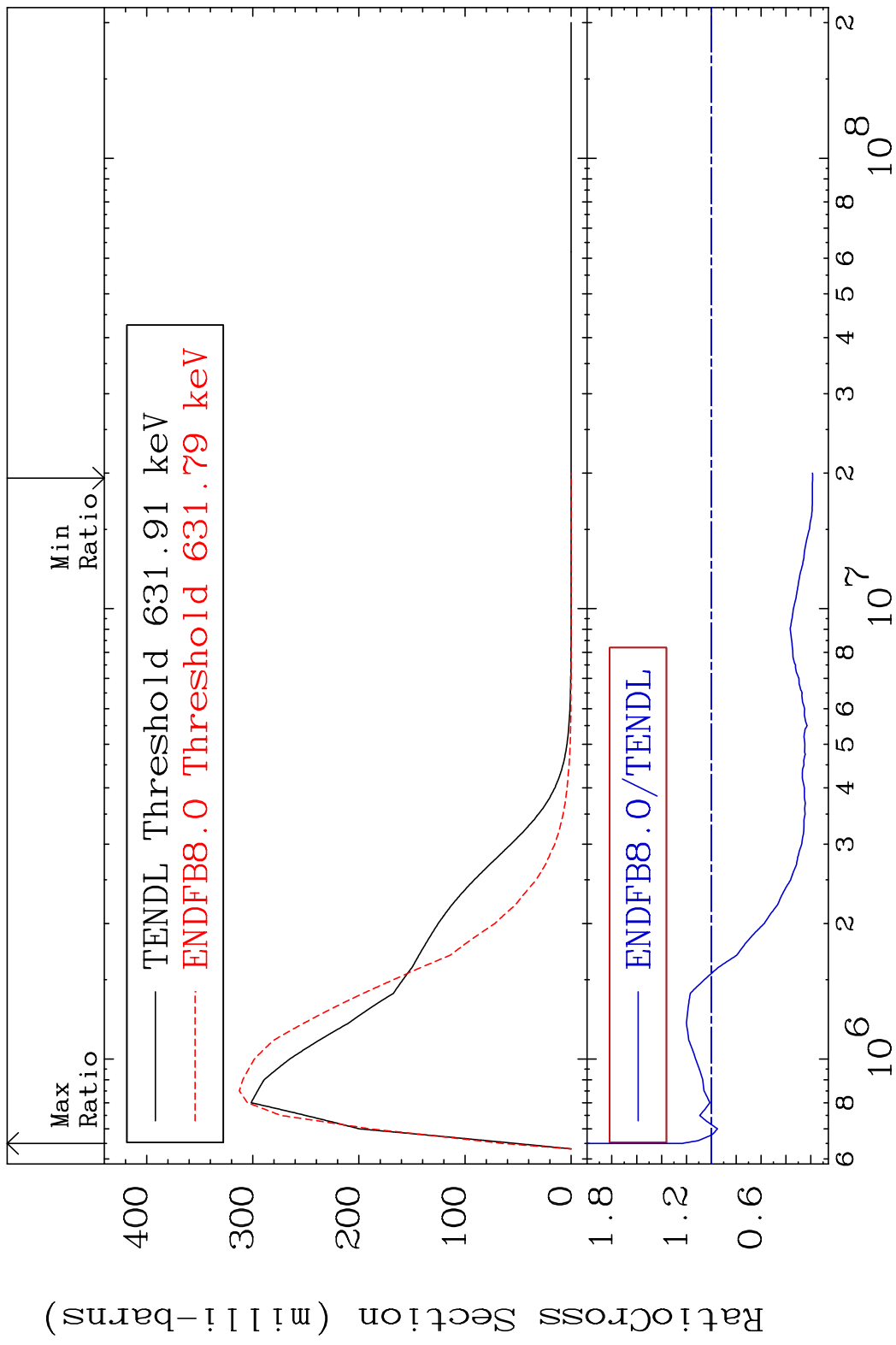
MAT 4325 MT= 56 (n, n') Level 43-Tc-99  
 Cross Section -100.0 To 9999. %



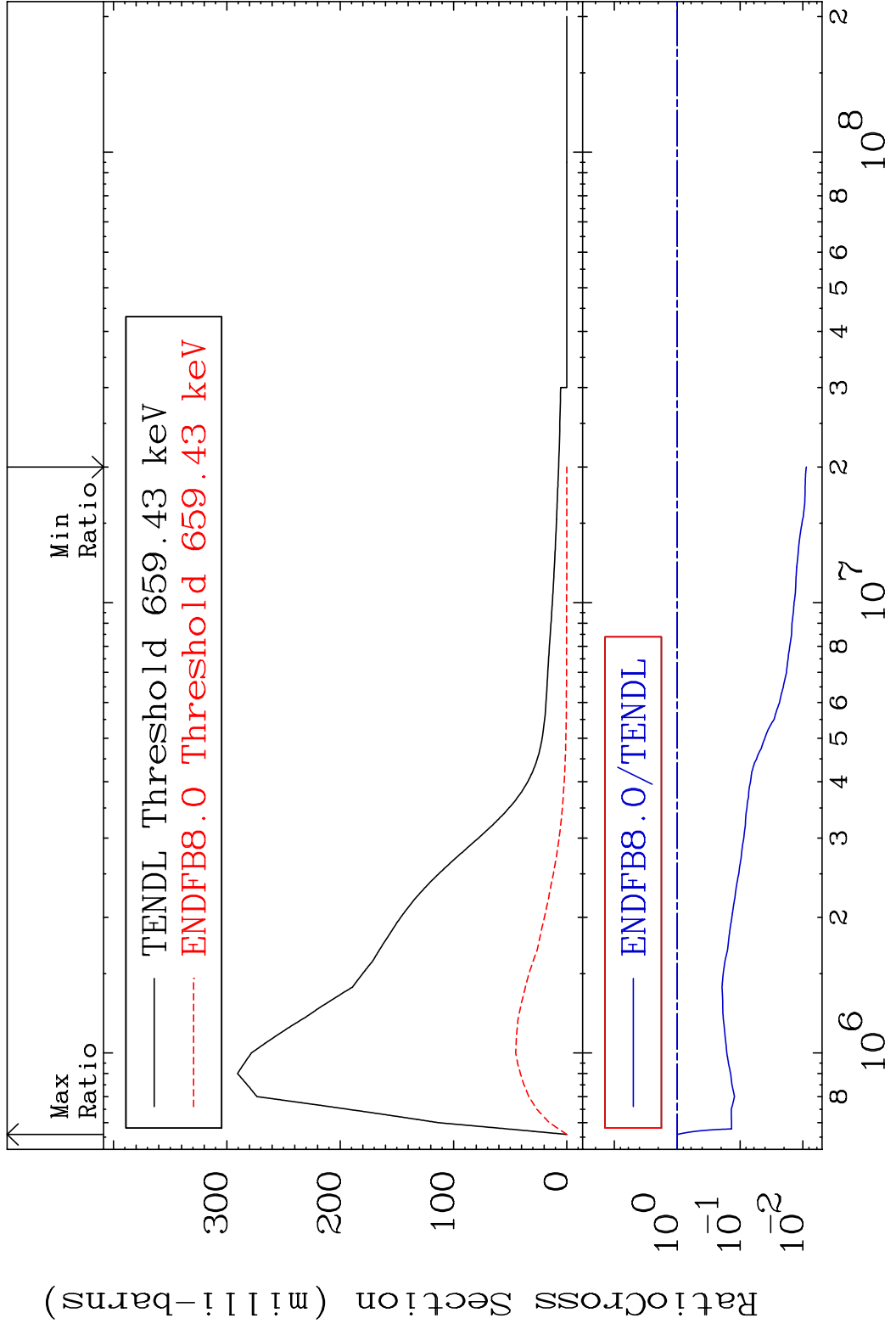
MAT 4325 MT= 57 (n, n') Level 43-Tc-99  
 Cross Section -100.0 To 44.53 %



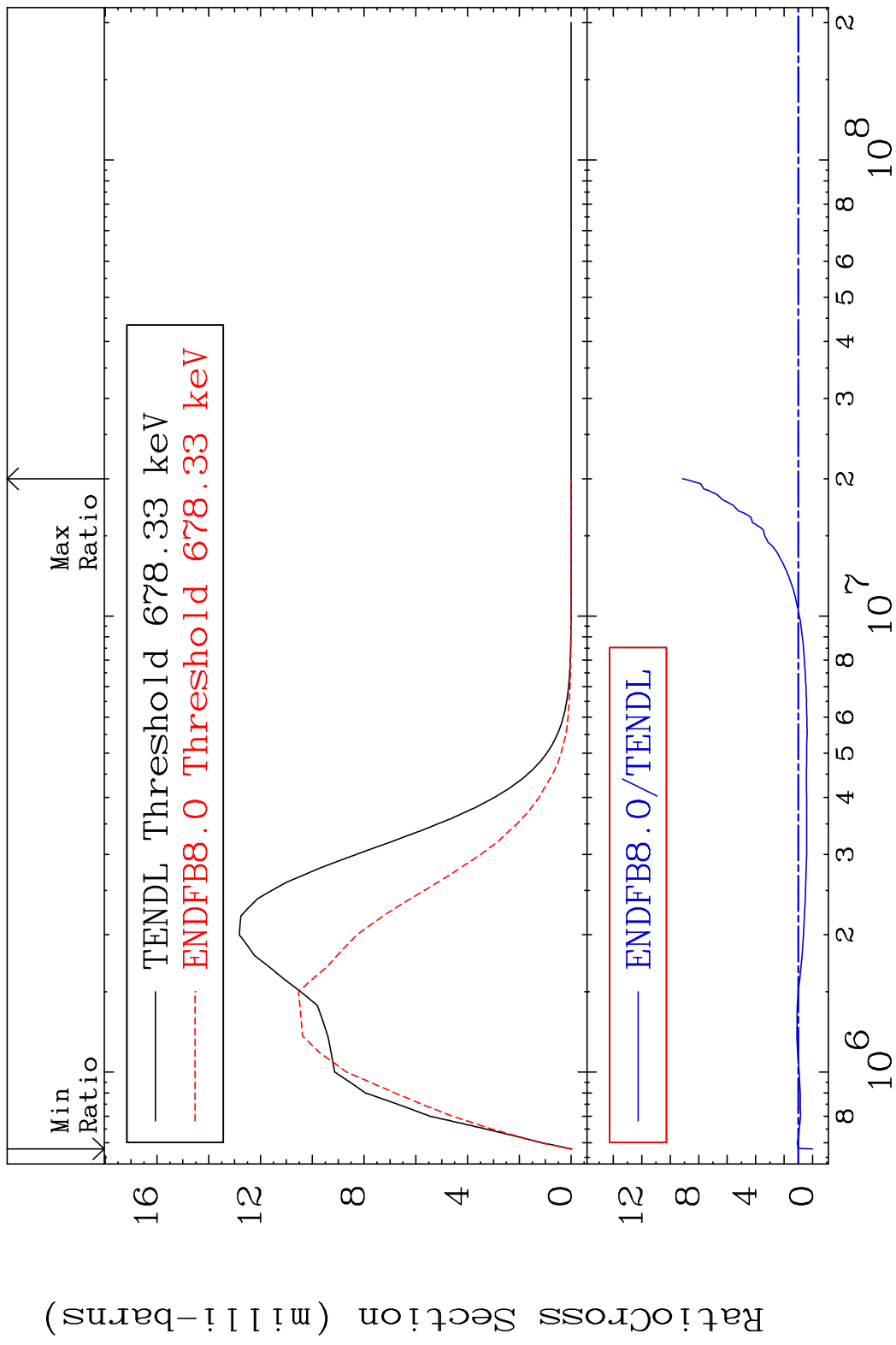
MAT 4325 MT= 58 (n, n') Level 43-Tc-99  
 Cross Section -81.44 To 23.26 %



MAT 4325 MT= 59 (n, n') Level 43-Tc-99  
 Cross Section -99.12 To 0.000 %

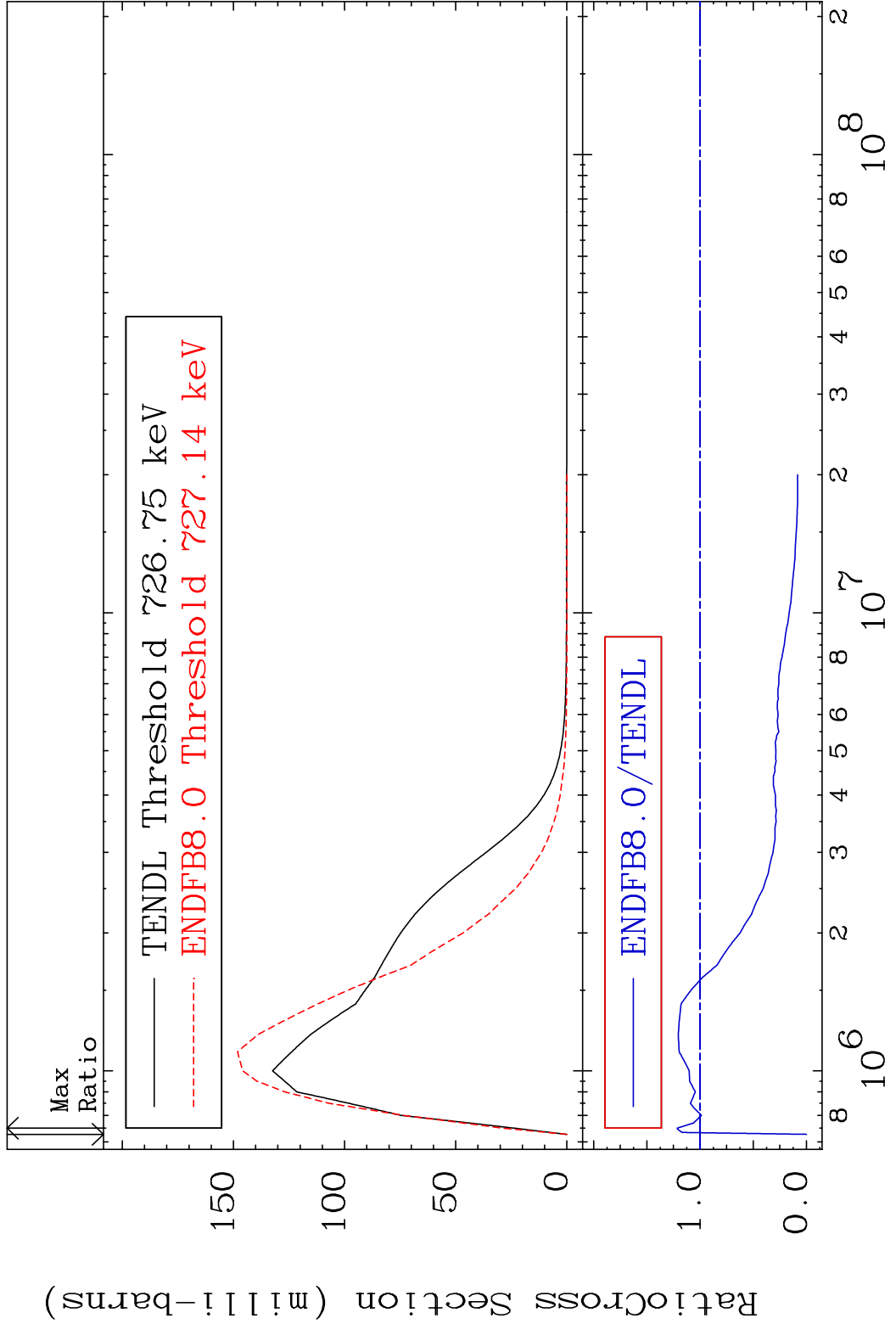


MAT 4325 MT= 60 (n, n') Level 43-Tc-99  
 Cross Section -100.0 To 814.8 %



19 Incident Energy (eV) 43-Tc-99

MAT 4325 MT= 61 (n,n') Level 43-Tc-99  
 Cross Section -100.0 To 21.48 %

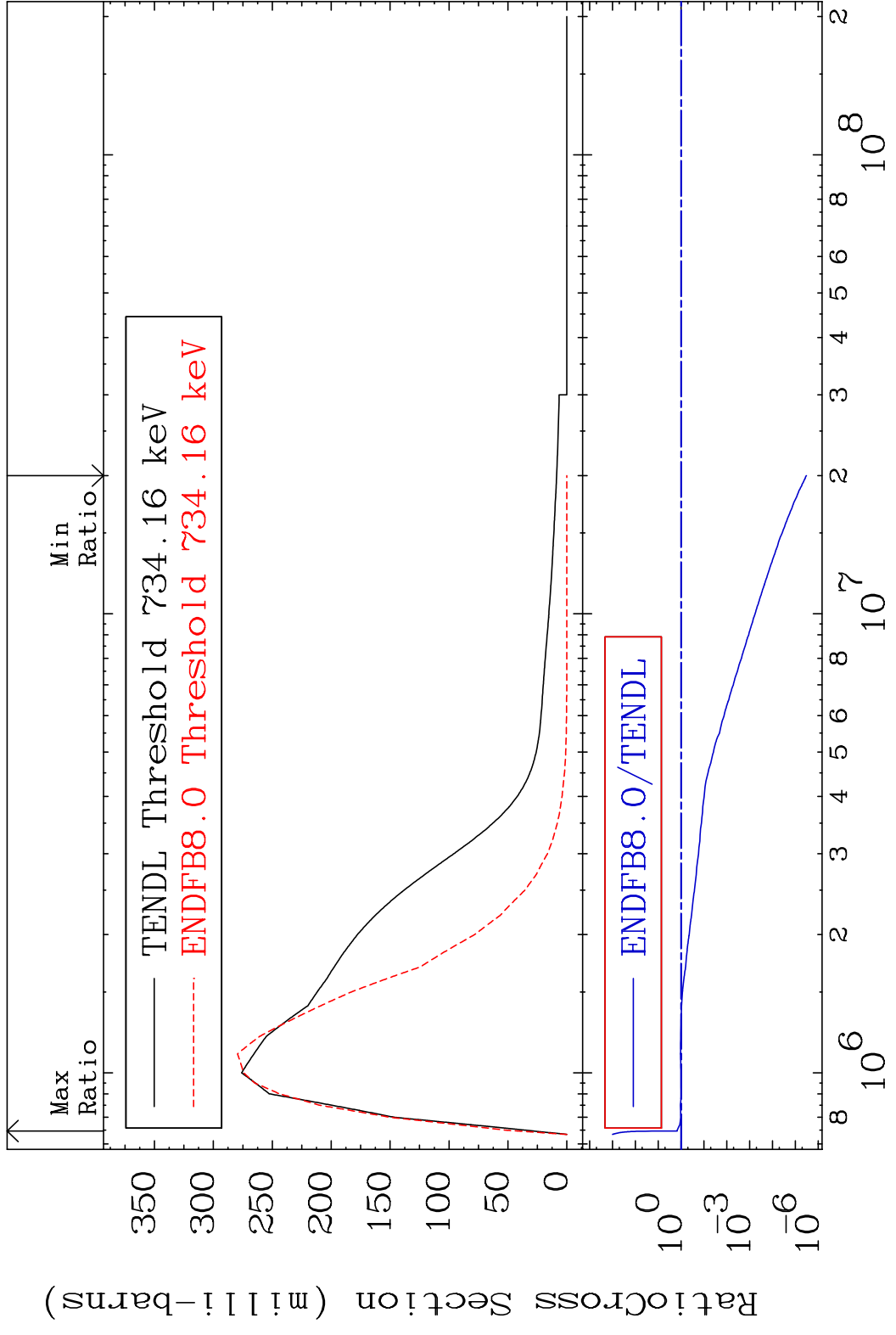


20

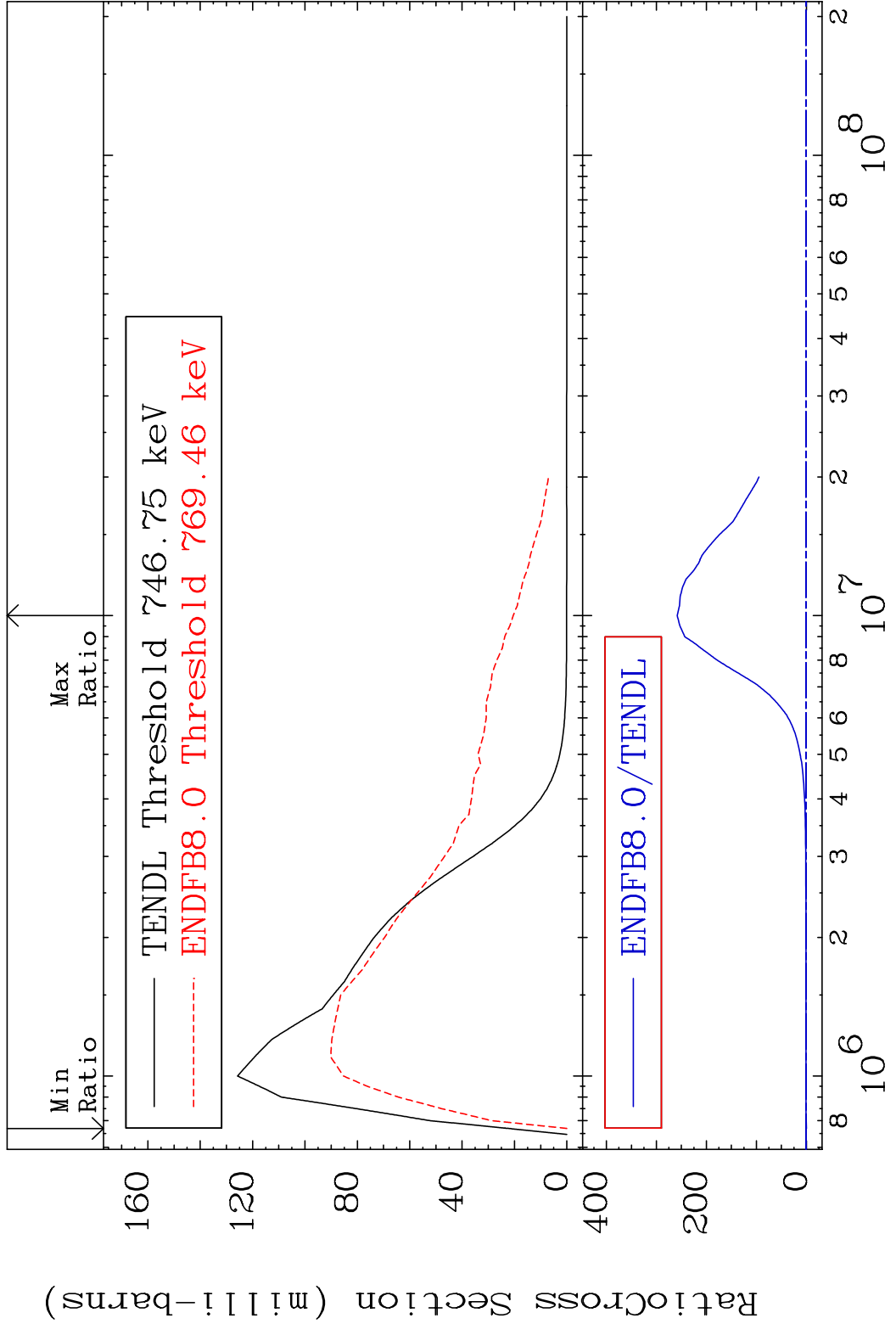
Incident Energy (eV)

43-Tc-99

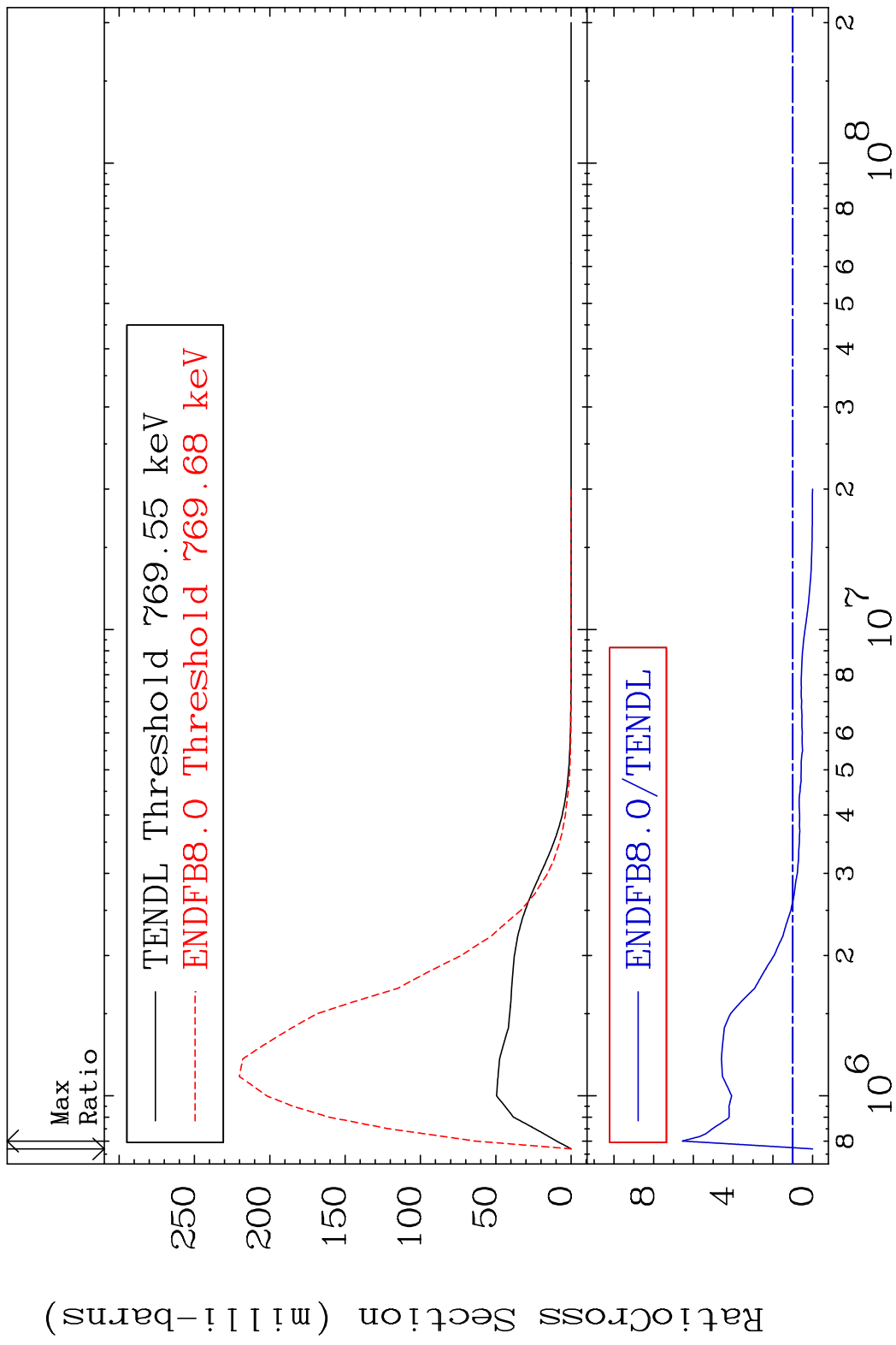
MAT 4325 MT= 62 (n, n') Level 43-Tc-99  
 Cross Section -100.0 To 46.87 %



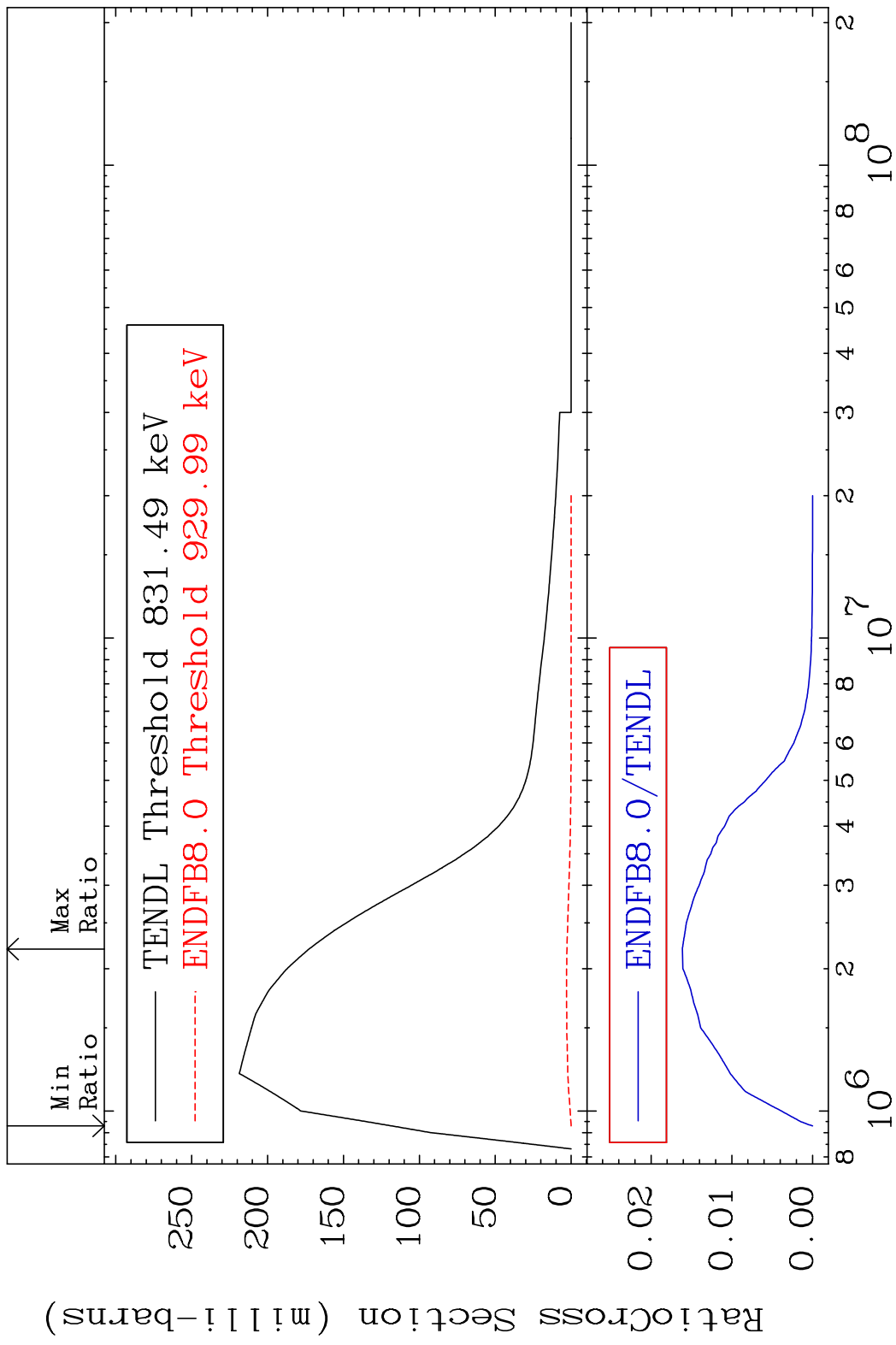
MAT 4325 MT= 63 (n, n') Level 43-Tc-99  
 Cross Section -100.0 To 9999. %



MAT 4325 MT= 64 (n,n') Level 43-Tc-99  
 Cross Section -100.0 To 555.6 %

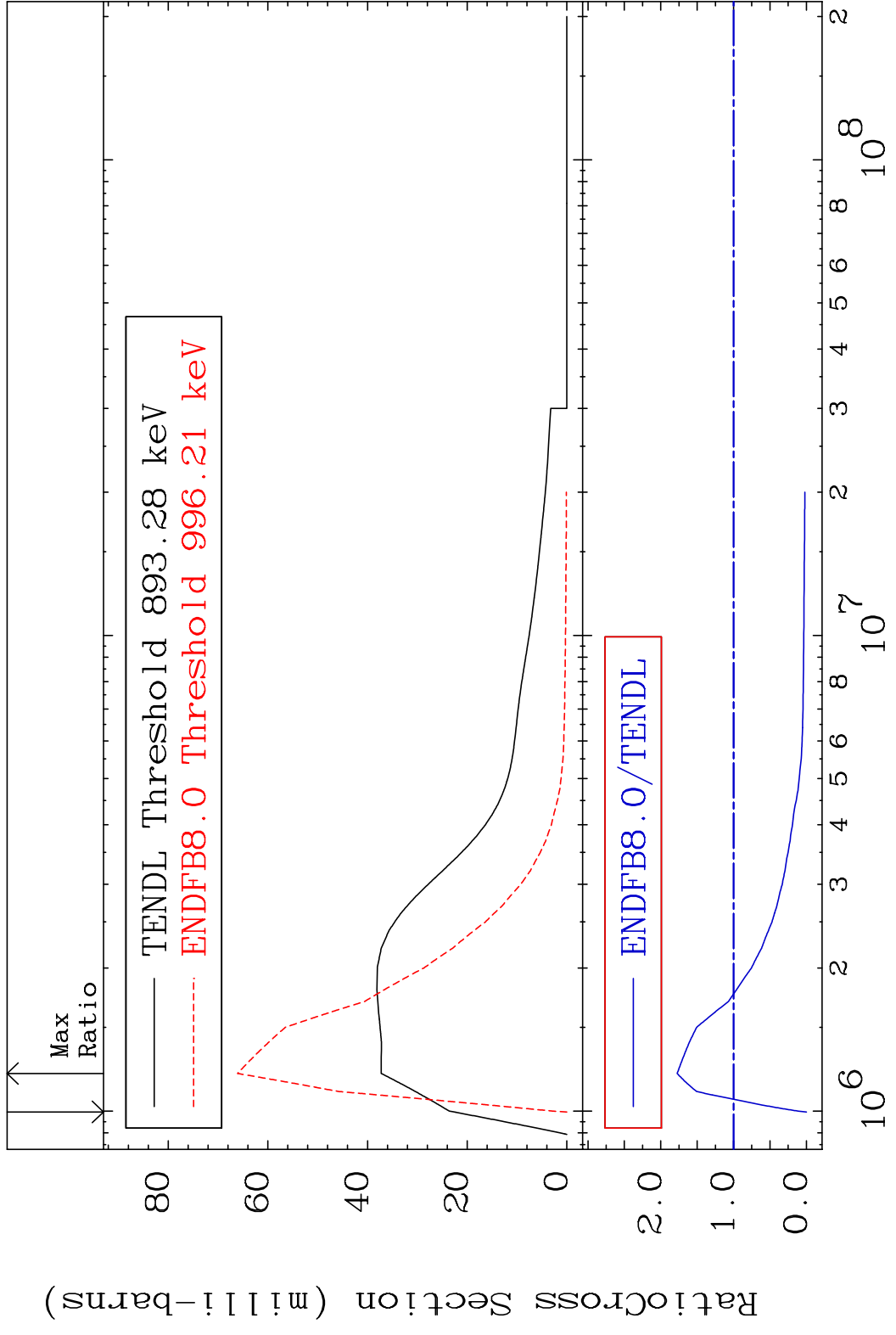


MAT 4325 MT= 65 (n,n') Level 43-Tc-99  
 Cross Section -100.0 To -98.39%



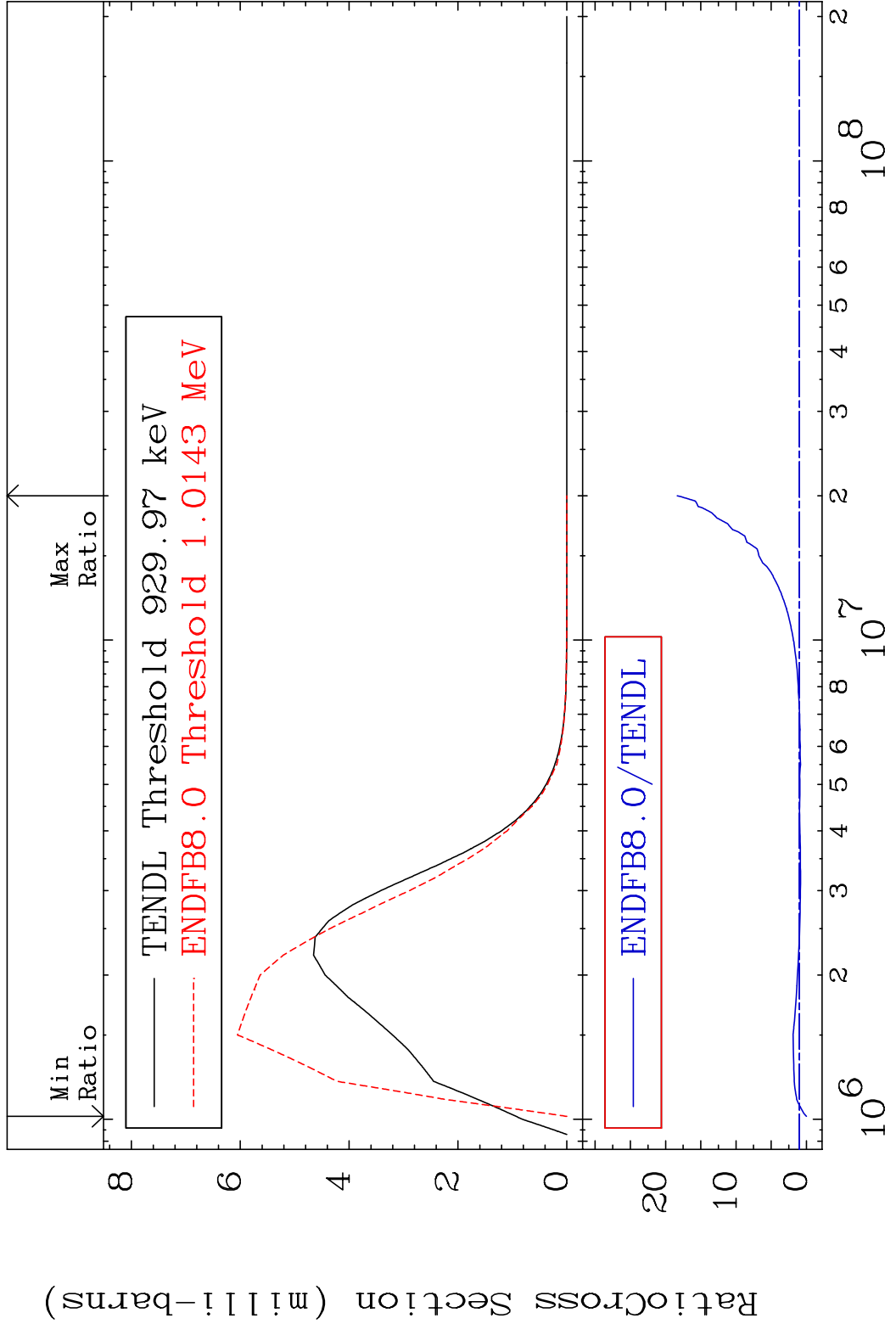
24 Incident Energy (eV) 43-Tc-99

MAT 4325 MT= 66 (n,n') Level 43-Tc-99  
 Cross Section -100.0 To 77.45 %

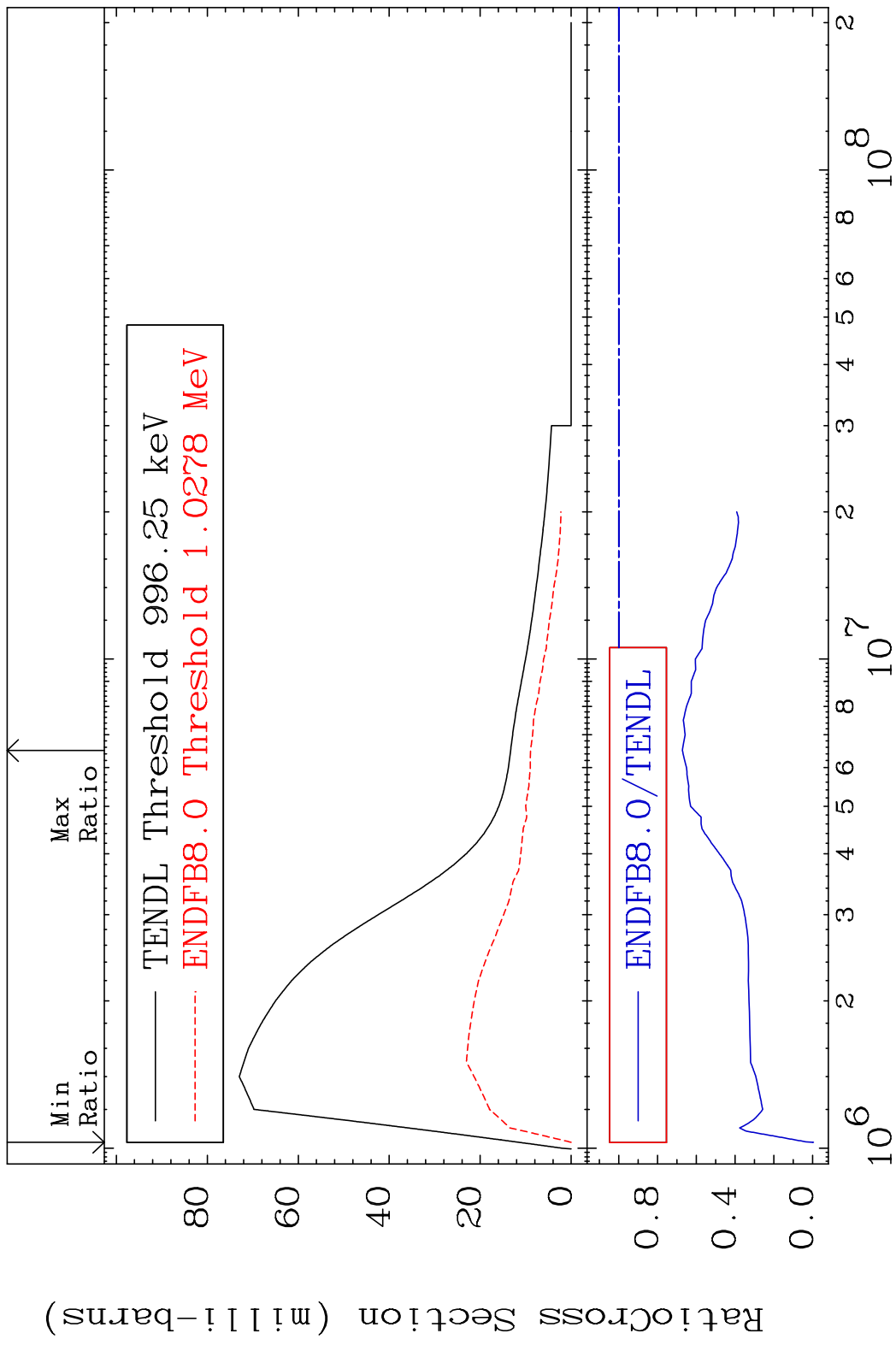


25 Incident Energy (eV) 43-Tc-99

MAT 4325 MT= 67 (n, n') Level 43-Tc-99  
 Cross Section -100.0 To 1735. %

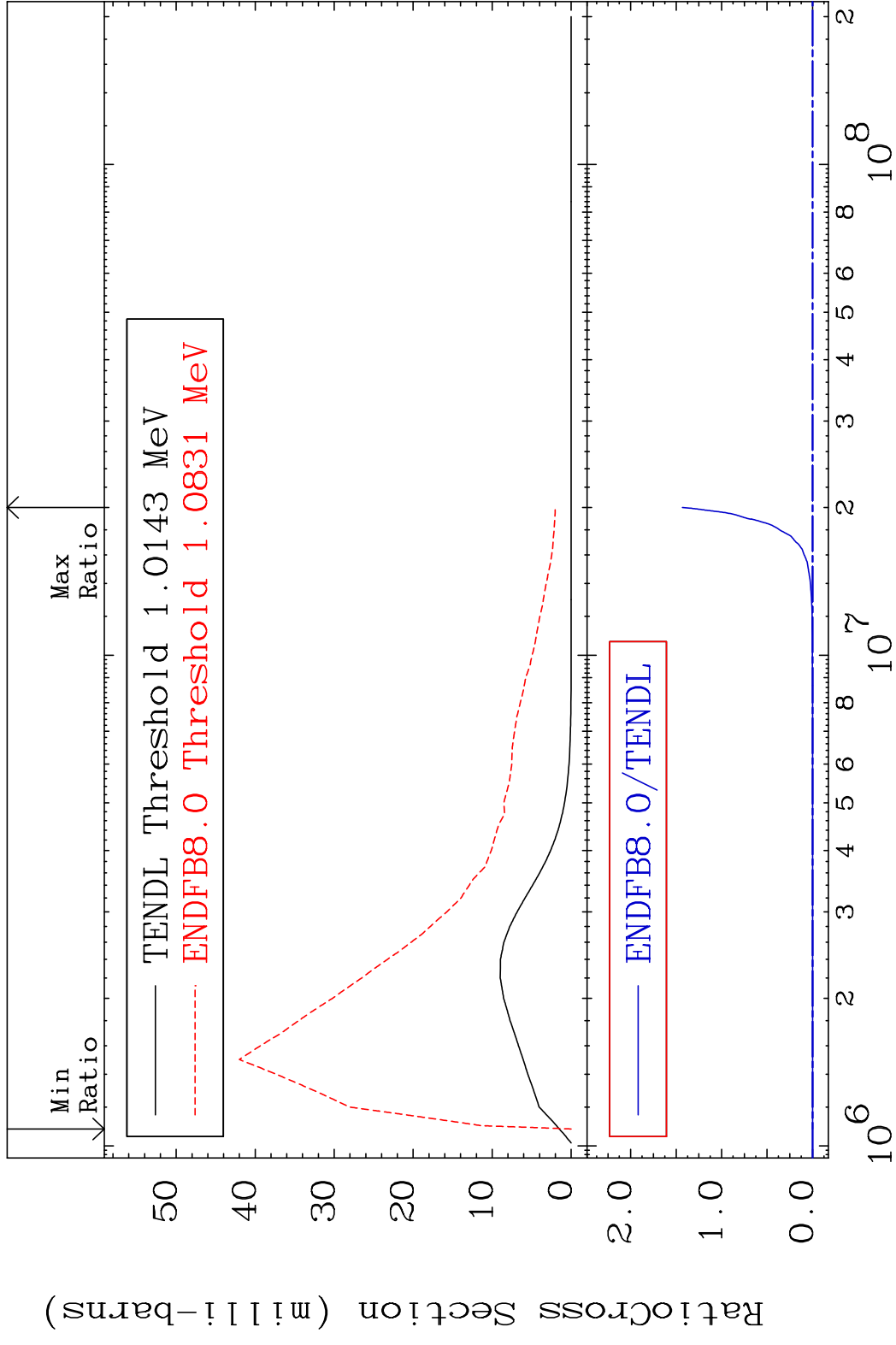


MAT 4325 MT= 68 (n, n') Level 43-Tc-99  
 Cross Section -100.0 To -32.81%

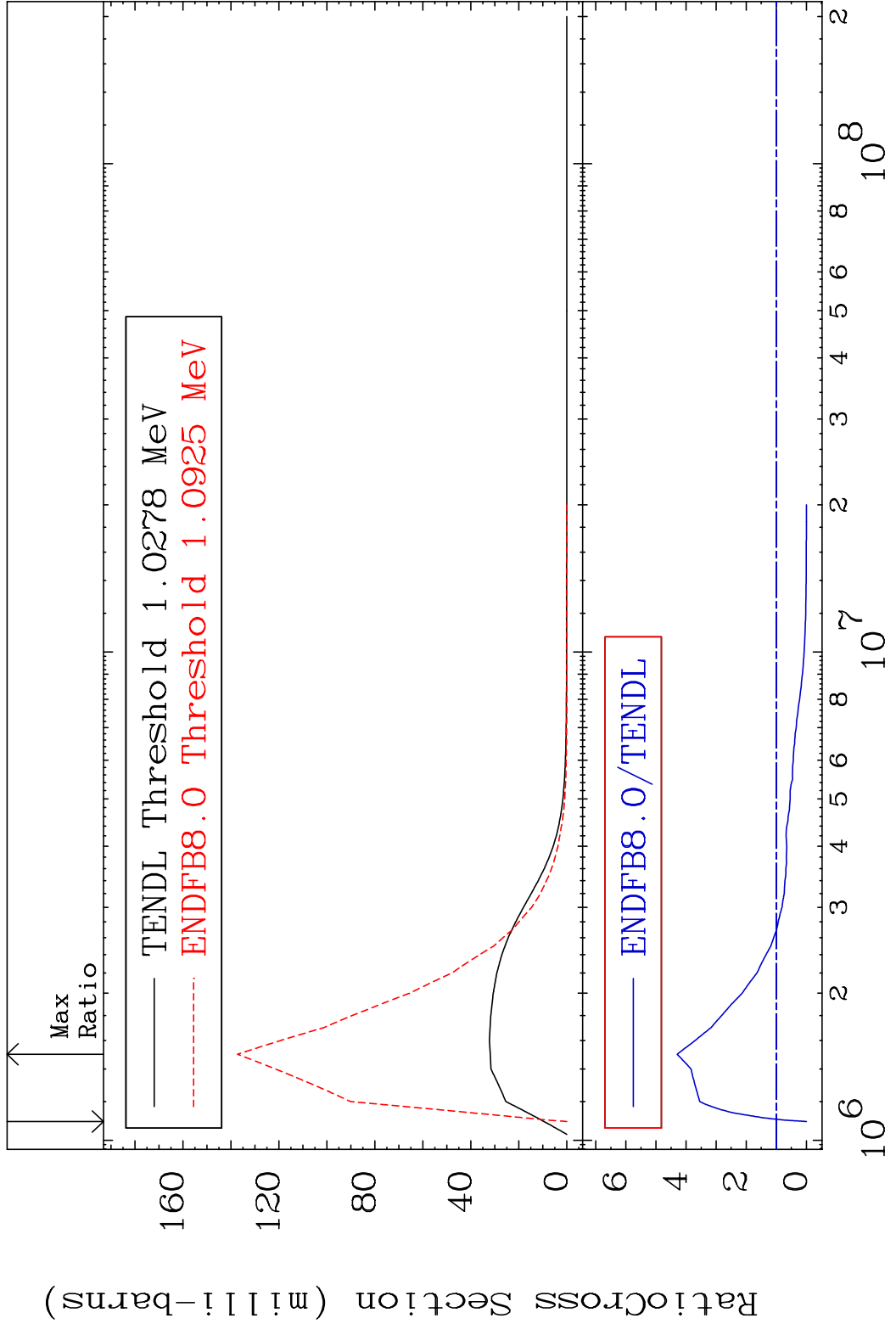


27 Incident Energy (eV) 43-Tc-99

MAT 4325 MT= 69 (n, n') Level 43-Tc-99  
 Cross Section -100.0 To 9999. %

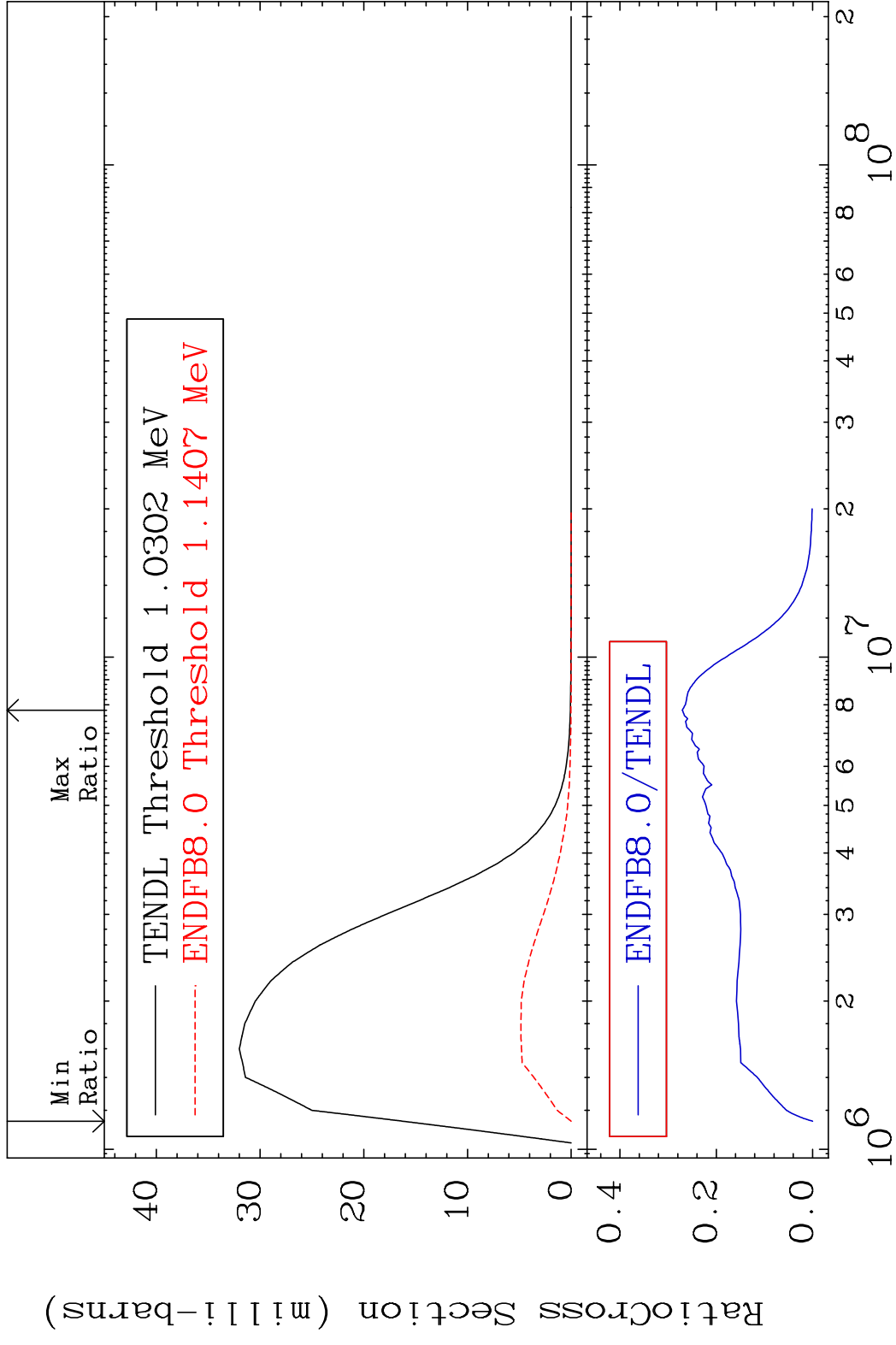


MAT 4325 MT= 70 (n, n') Level 43-Tc-99  
 Cross Section -100.0 To 329.5 %



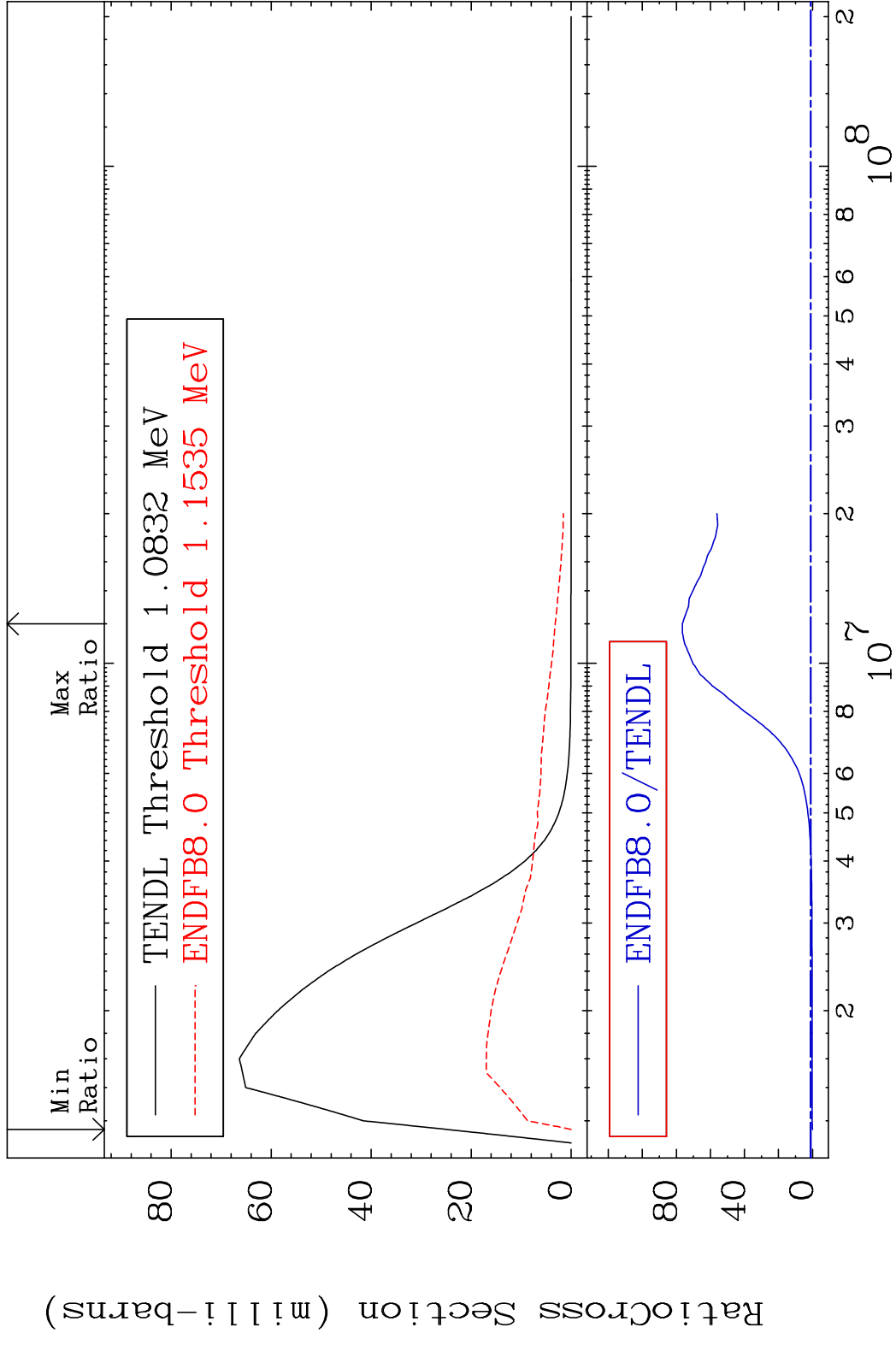
29 Incident Energy (eV) 43-Tc-99

MAT 4325 MT= 71 (n,n') Level 43-Tc-99  
 Cross Section -100.0 To -72.95%

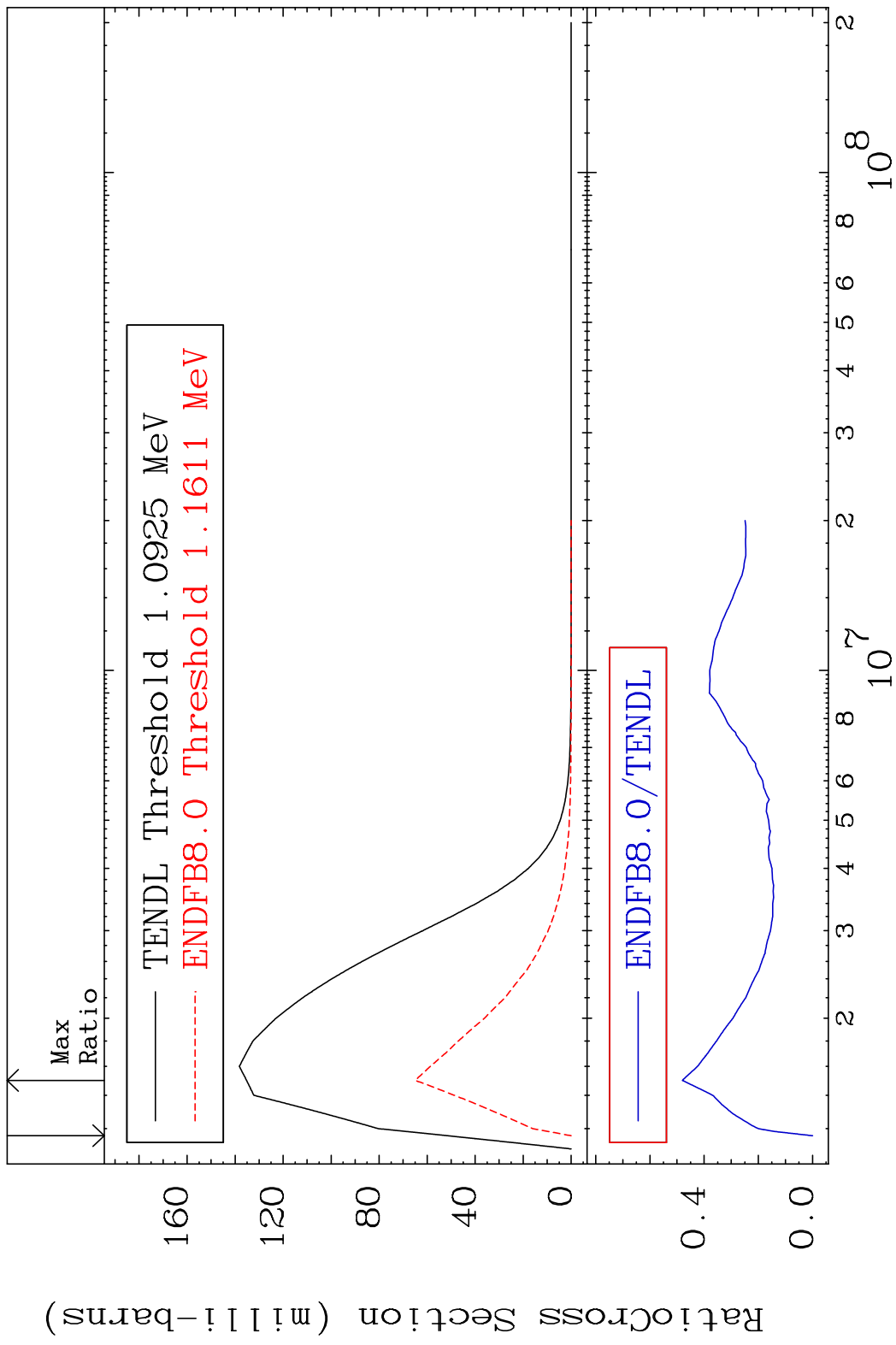


30 Incident Energy (eV) 43-Tc-99

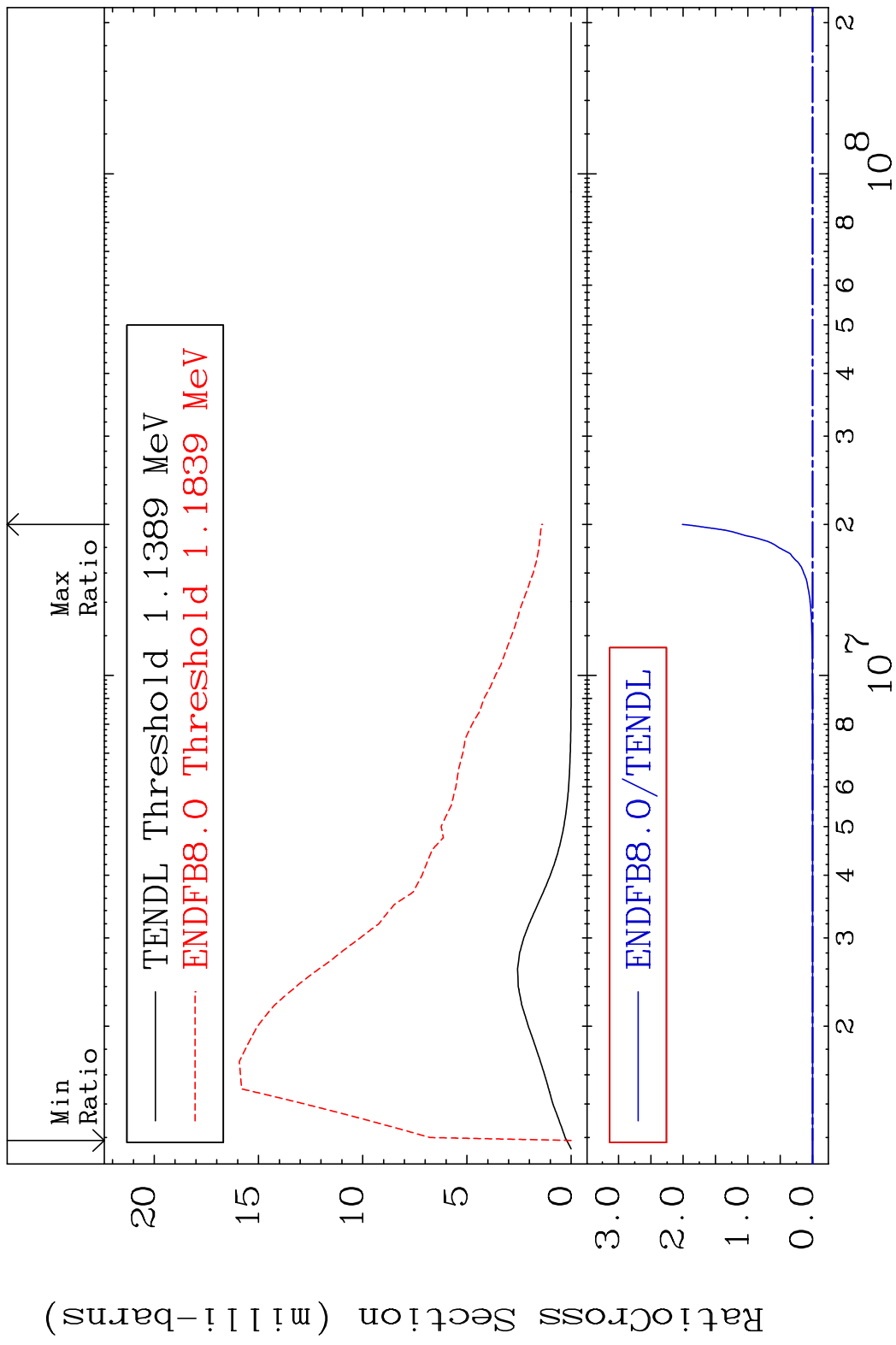
MAT 4325 MT= 72 (n, n') Level 43-Tc-99  
 Cross Section -100.0 To 7548. %



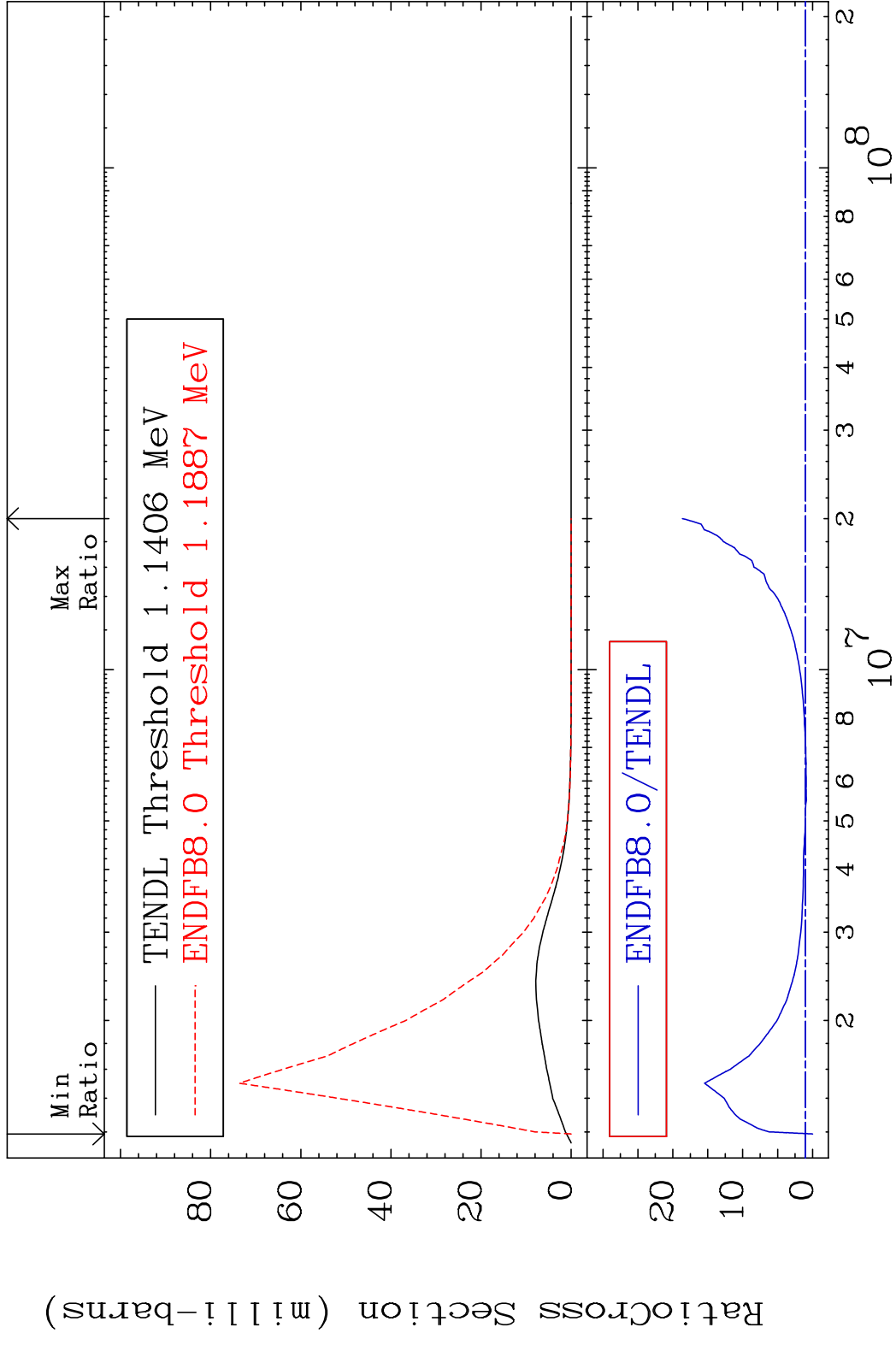
MAT 4325 MT= 73 (n,n') Level 43-Tc-99  
 Cross Section -100.0 To -51.97%



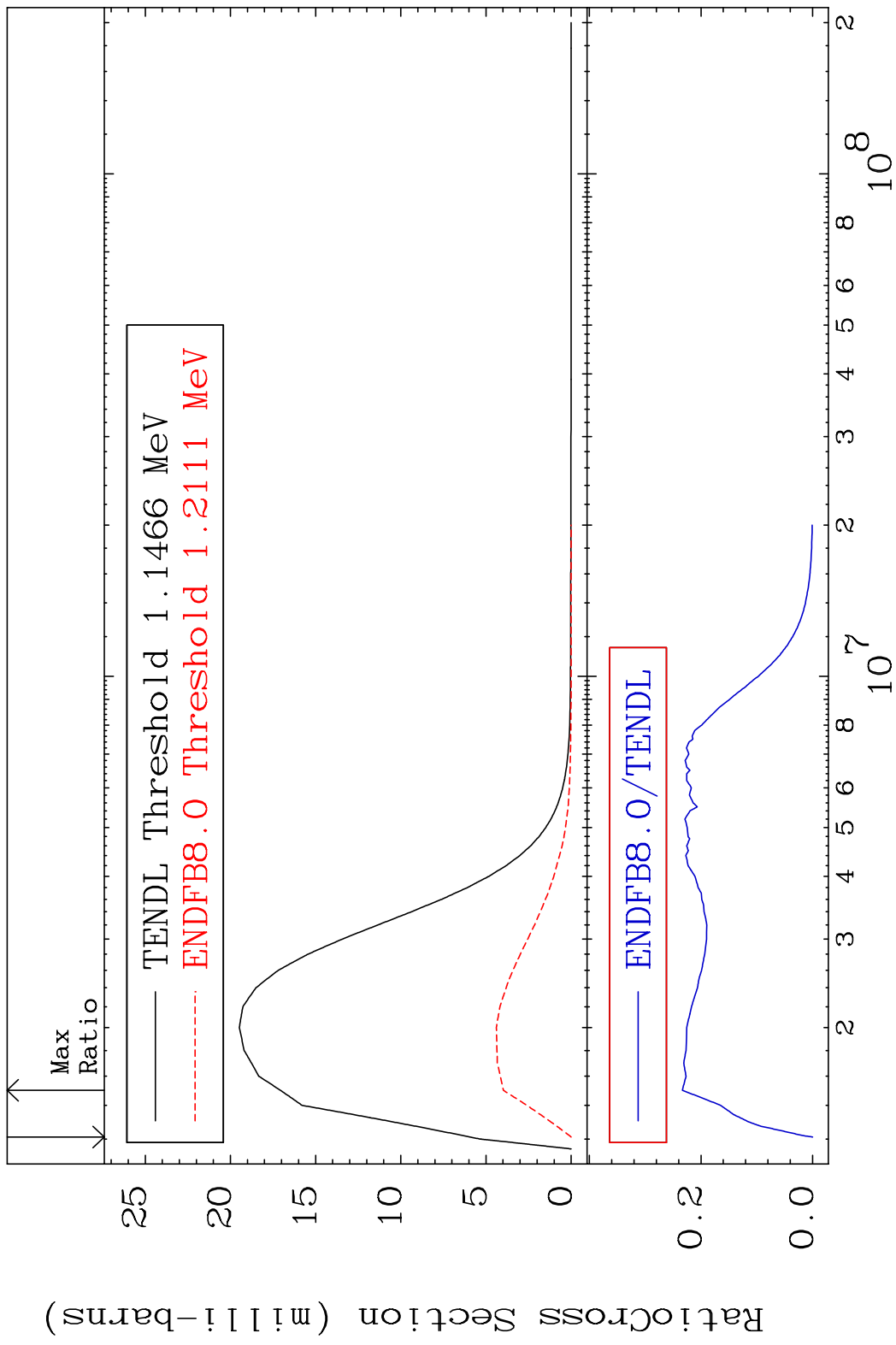
MAT 4325 MT= 74 (n, n') Level 43-Tc-99  
 Cross Section -100.0 To 9999. %



MAT 4325 MT= 75 (n, n') Level 43-Tc-99  
 Cross Section -100.0 To 1764. %

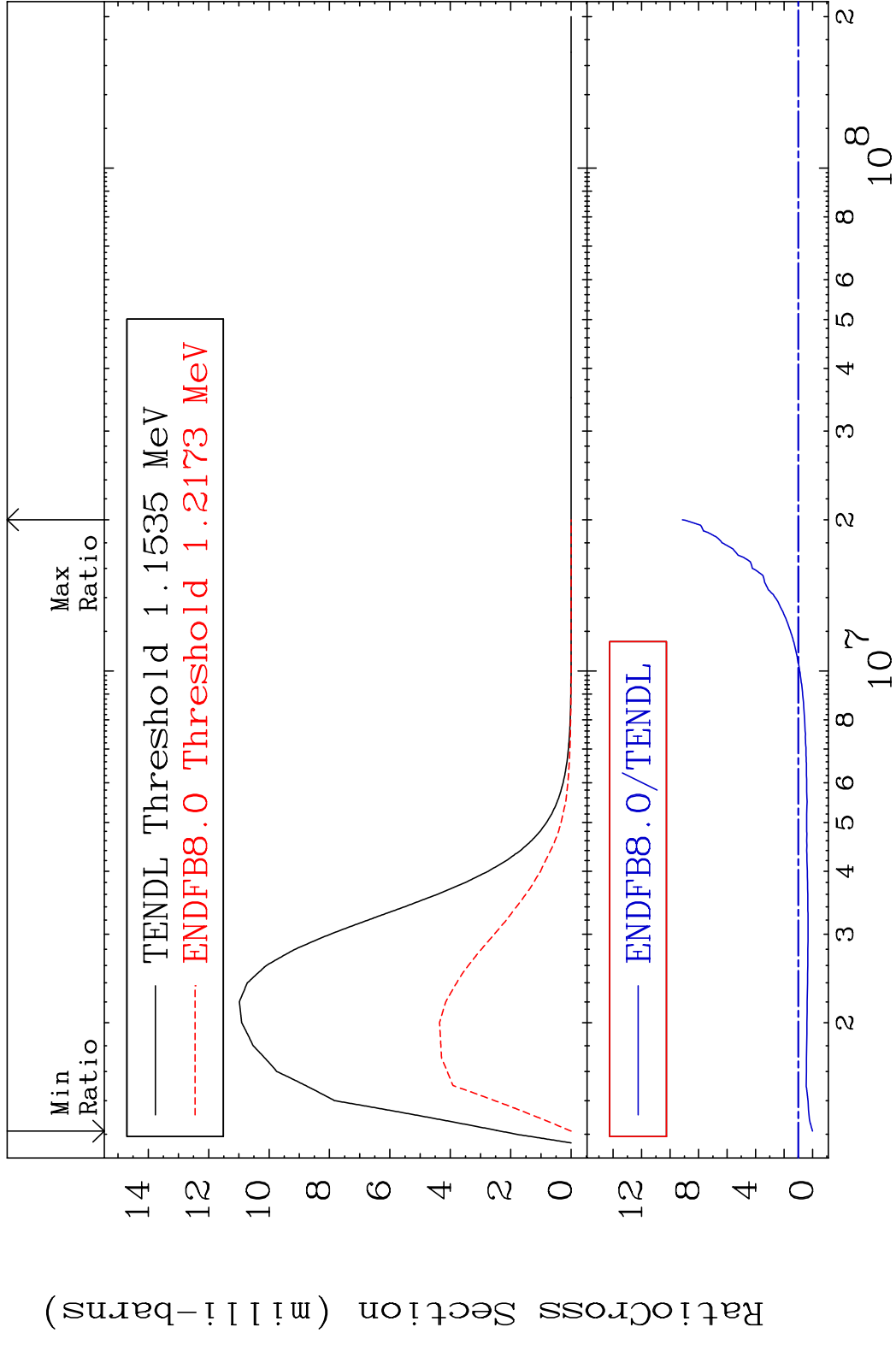


MAT 4325 MT= 76 (n,n') Level 43-Tc-99  
 Cross Section -100.0 To -76.66%

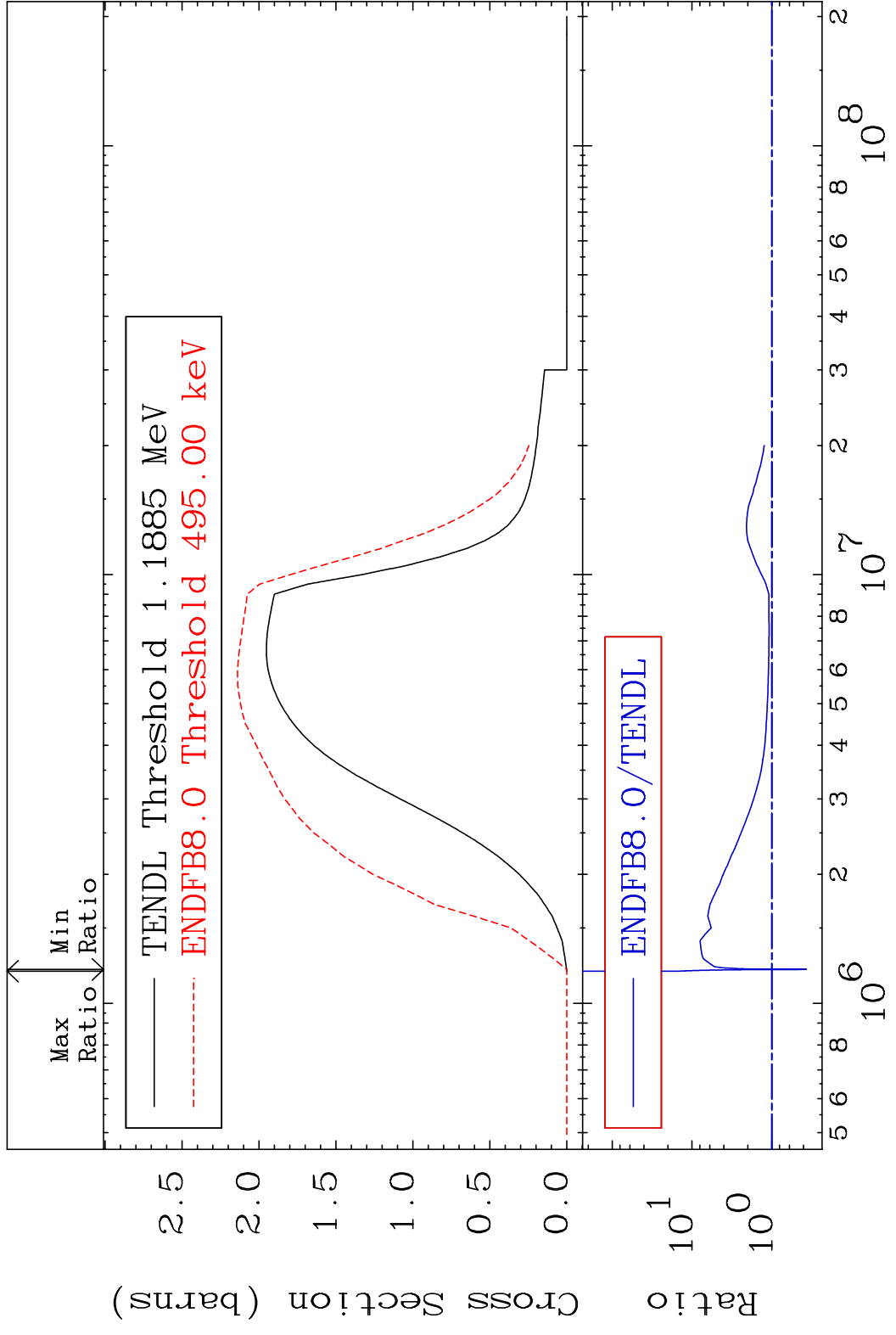


35 Incident Energy (eV) 43-Tc-99

MAT 4325 MT= 77 (n, n') Level 43-Tc-99  
 Cross Section -100.0 To 814.1 %



MAT 4325 (n,n') Continuum 43-Tc-99  
 Cross Section -63.09 To 1435. %

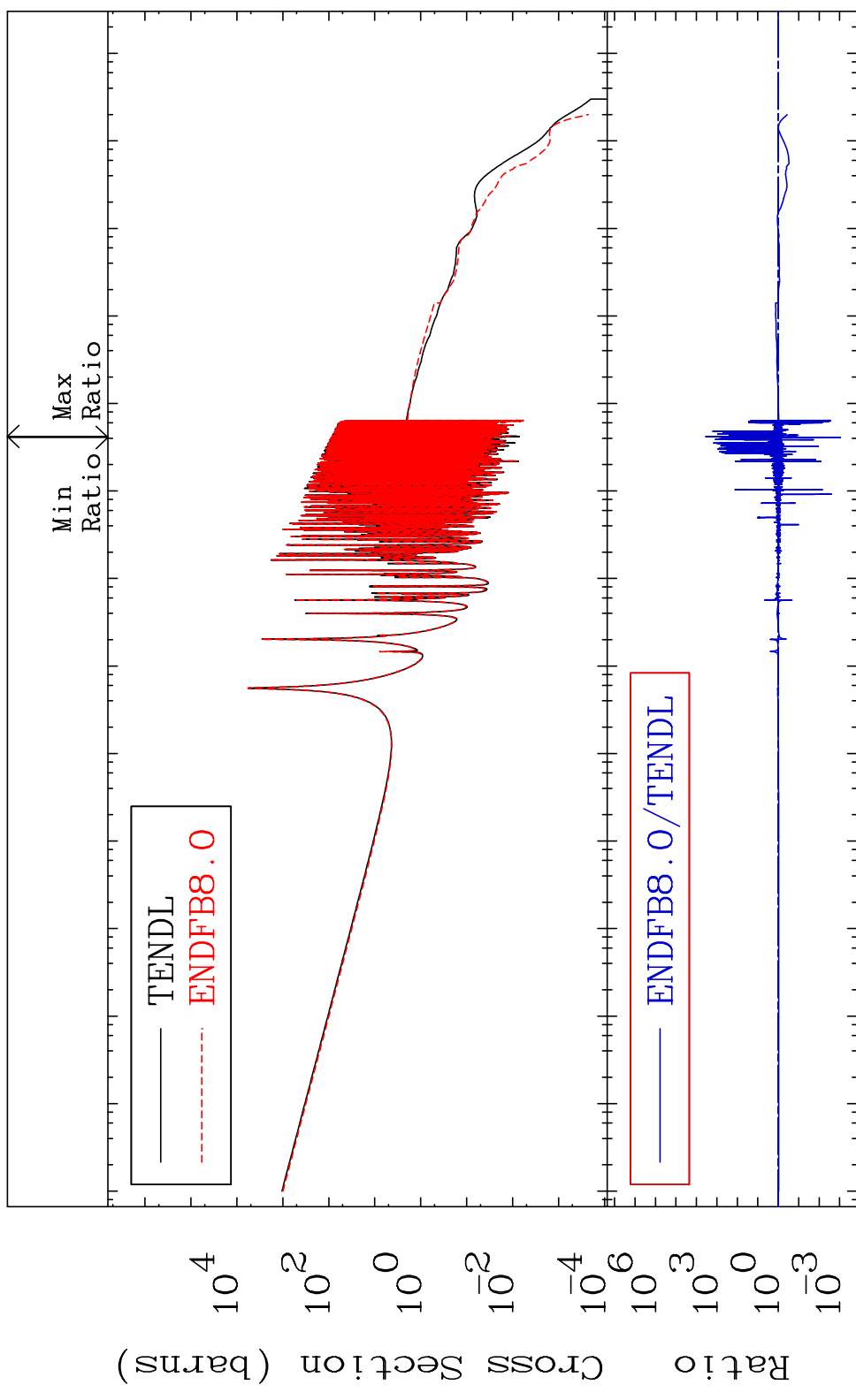


MAT 4325

(n,  $\gamma$ )

43-Tc-99

Cross Section -99.91 To 9999. %



Min Ratio

Max Ratio

Ratio

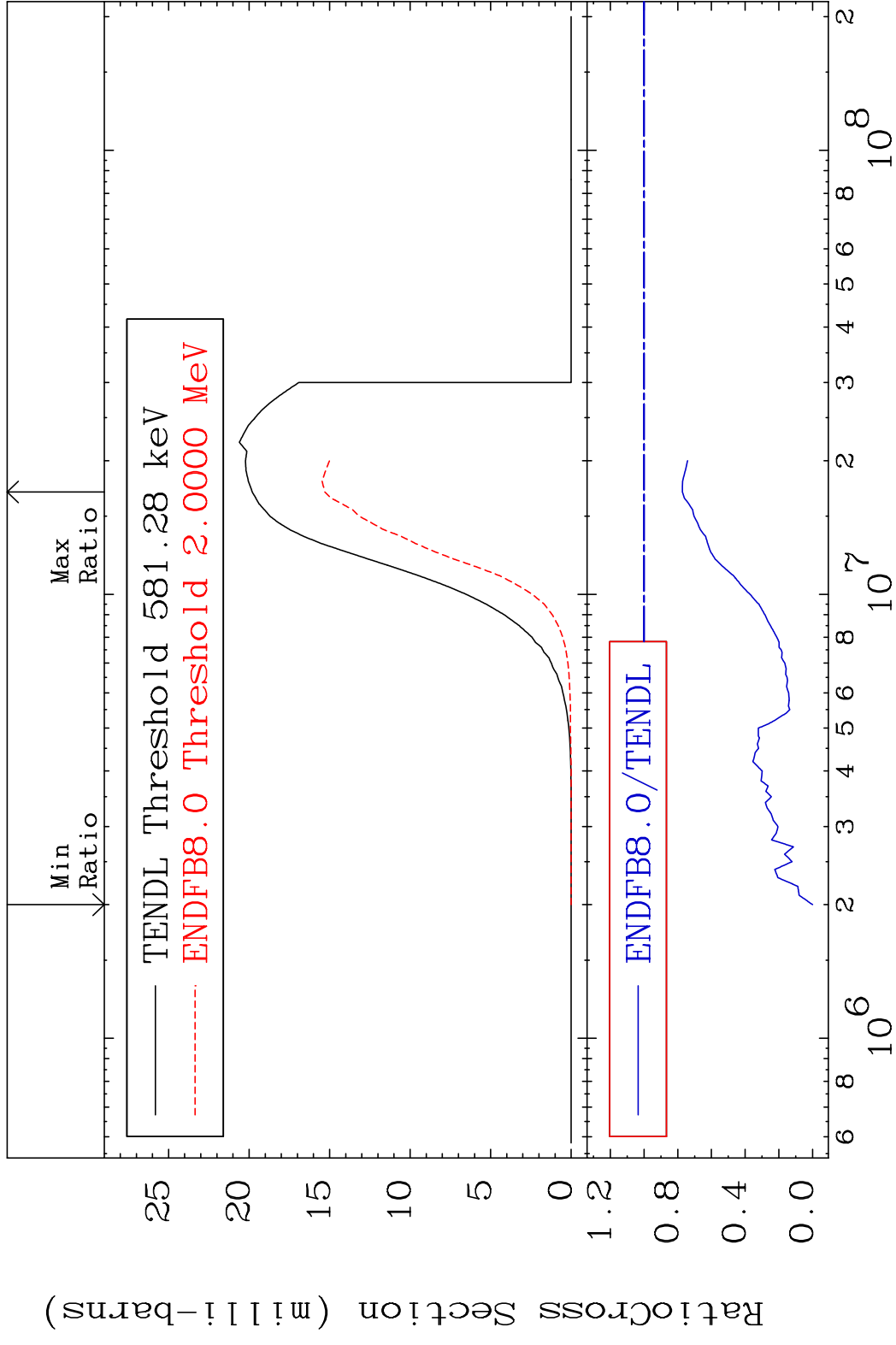
10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

38

Incident Energy (eV)

43-Tc-99

MAT 4325 (n,p) 43-Tc-99  
 Cross Section -100.0 To -22.73%

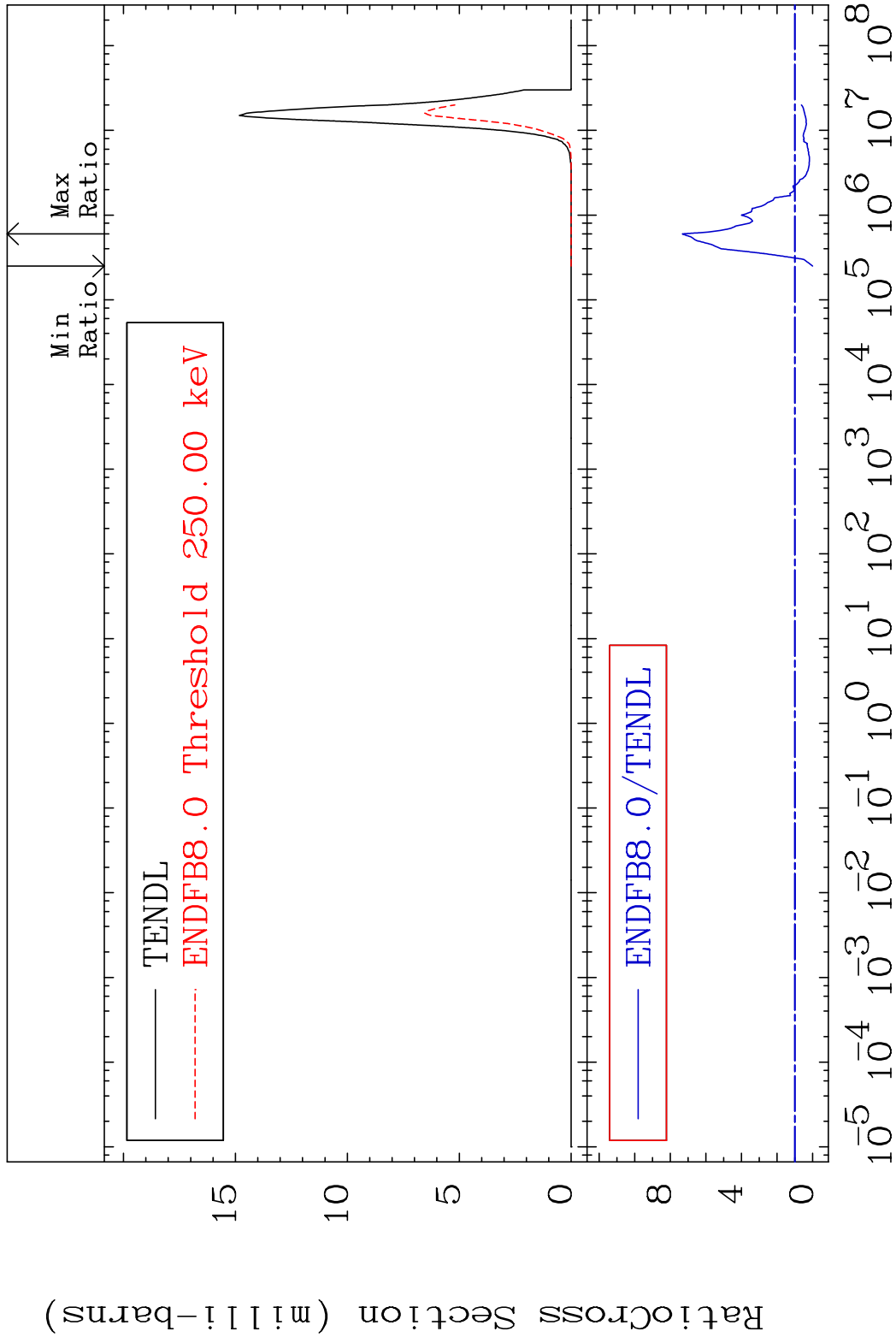


MAT 4325

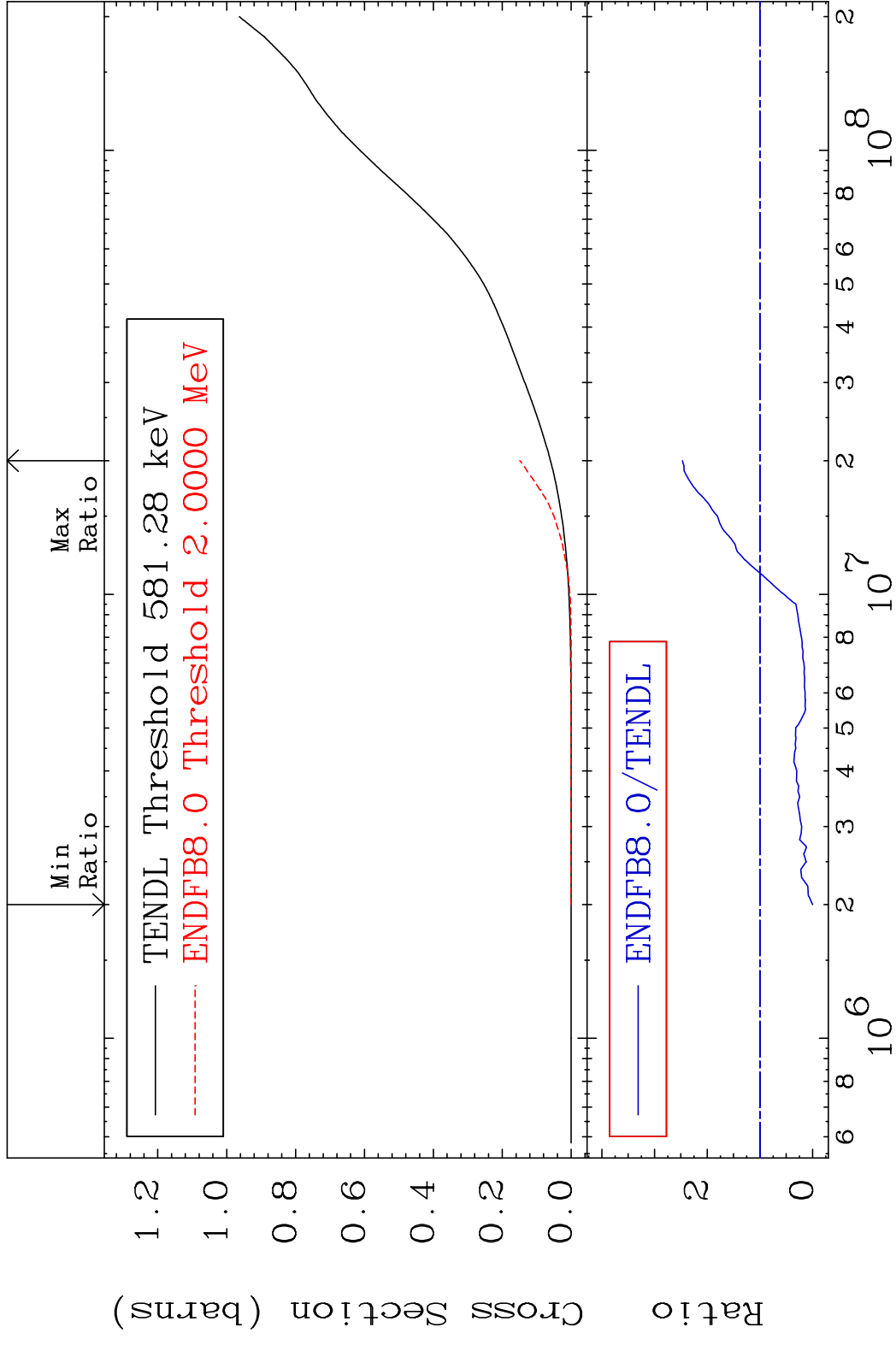
(n,  $\alpha$ )

43-Tc-99

Cross Section -100.0 To 632.1 %



MAT 4325 Hydrogen Production 43-Tc-99  
 Cross Section -100.0 To 147.2 %



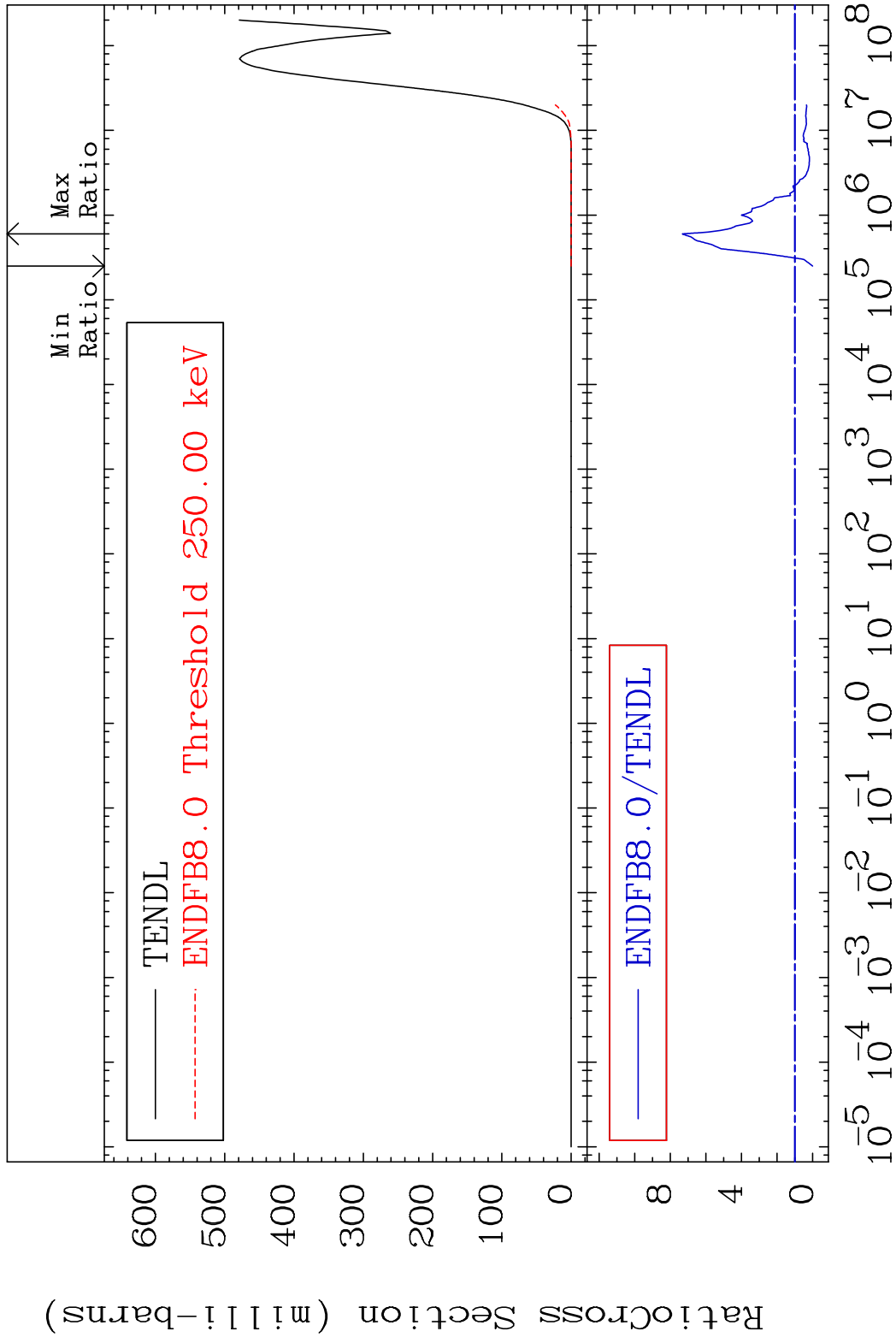
41 Incident Energy (eV) 43-Tc-99

MAT 4325

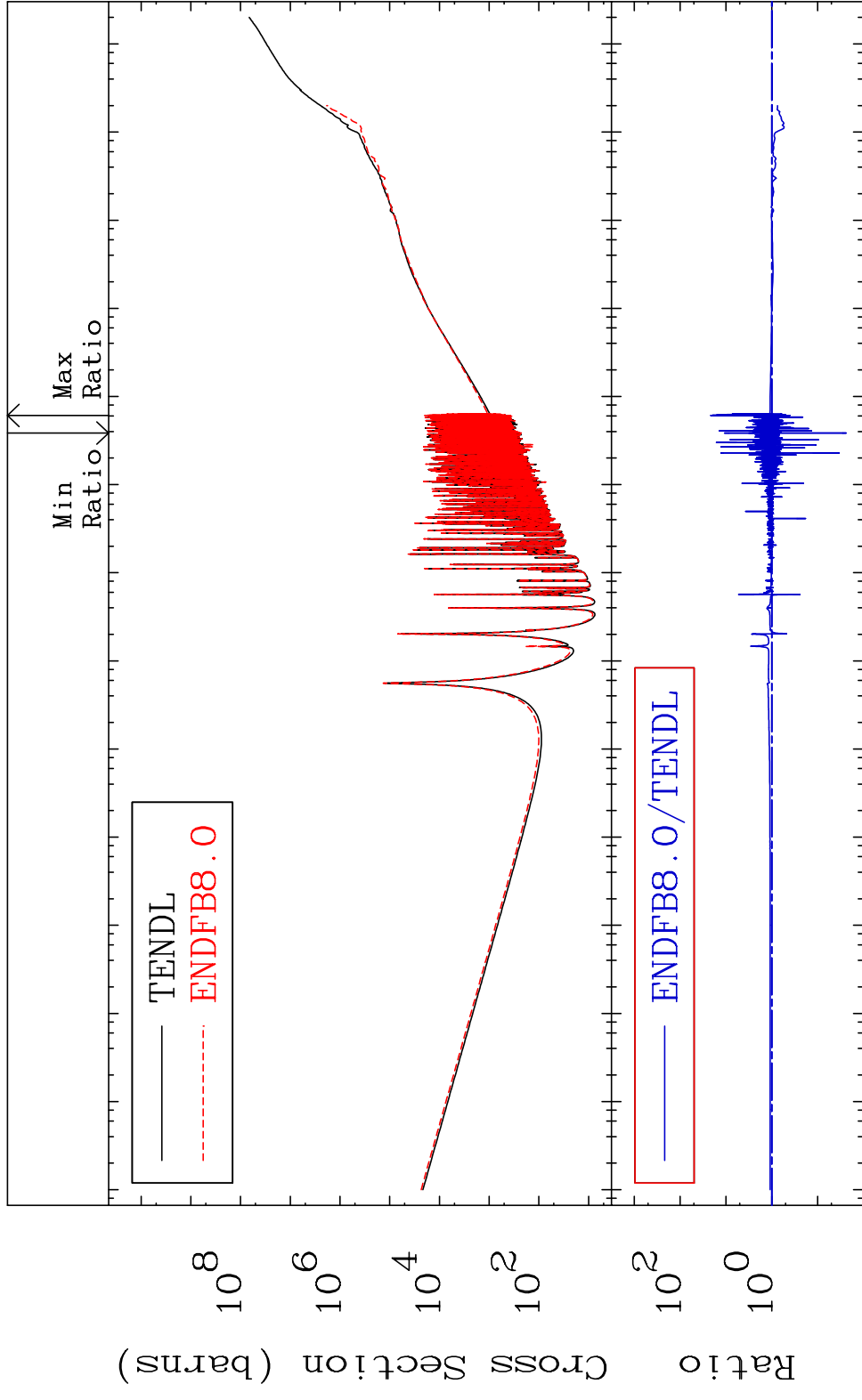
He-4 Production

43-Tc-99

Cross Section -100.0 To 632.1 %



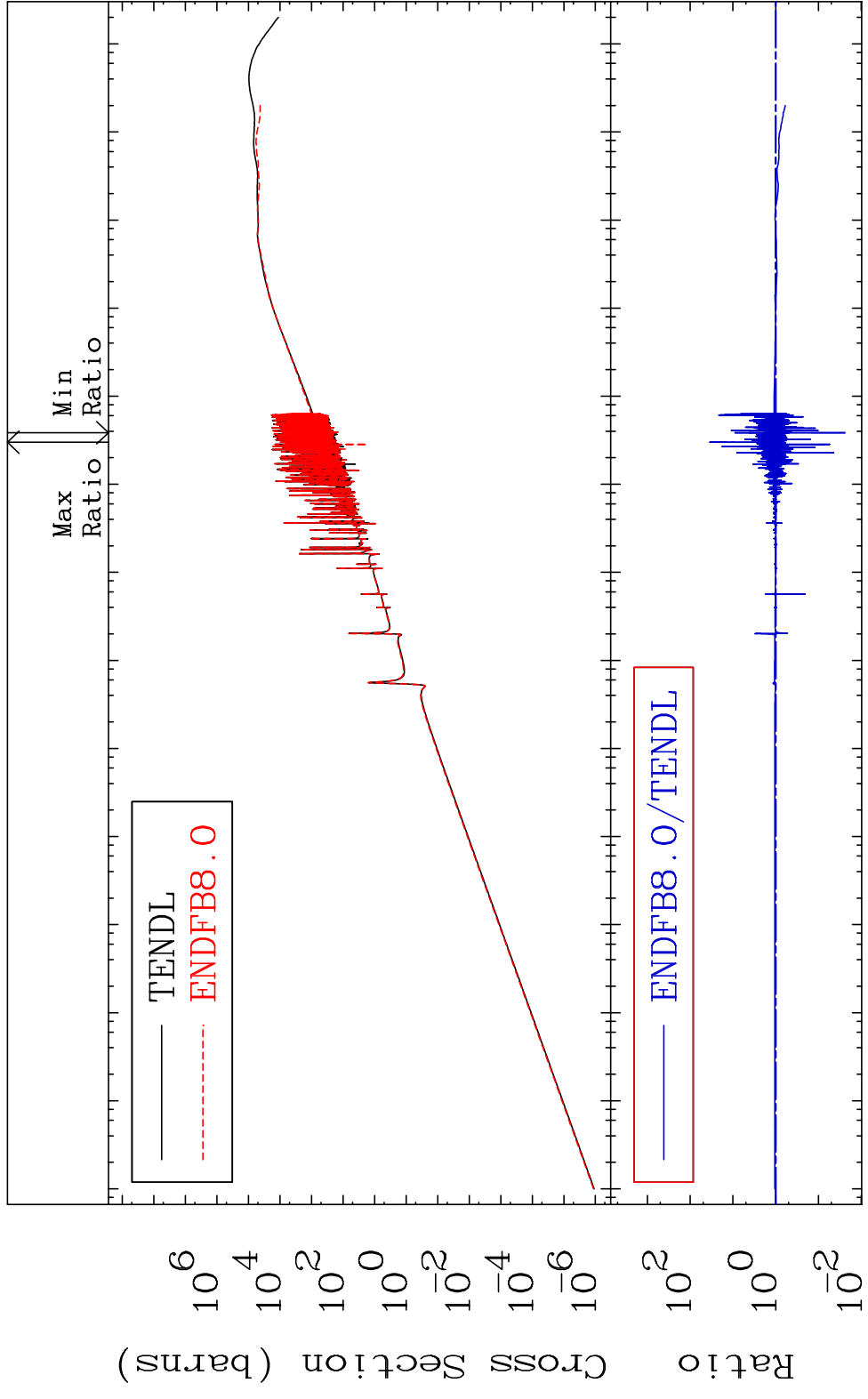
MAT 4325 Kerma total (eV-barns) 43-Tc-99  
 Cross Section -97.63 To 2043. %



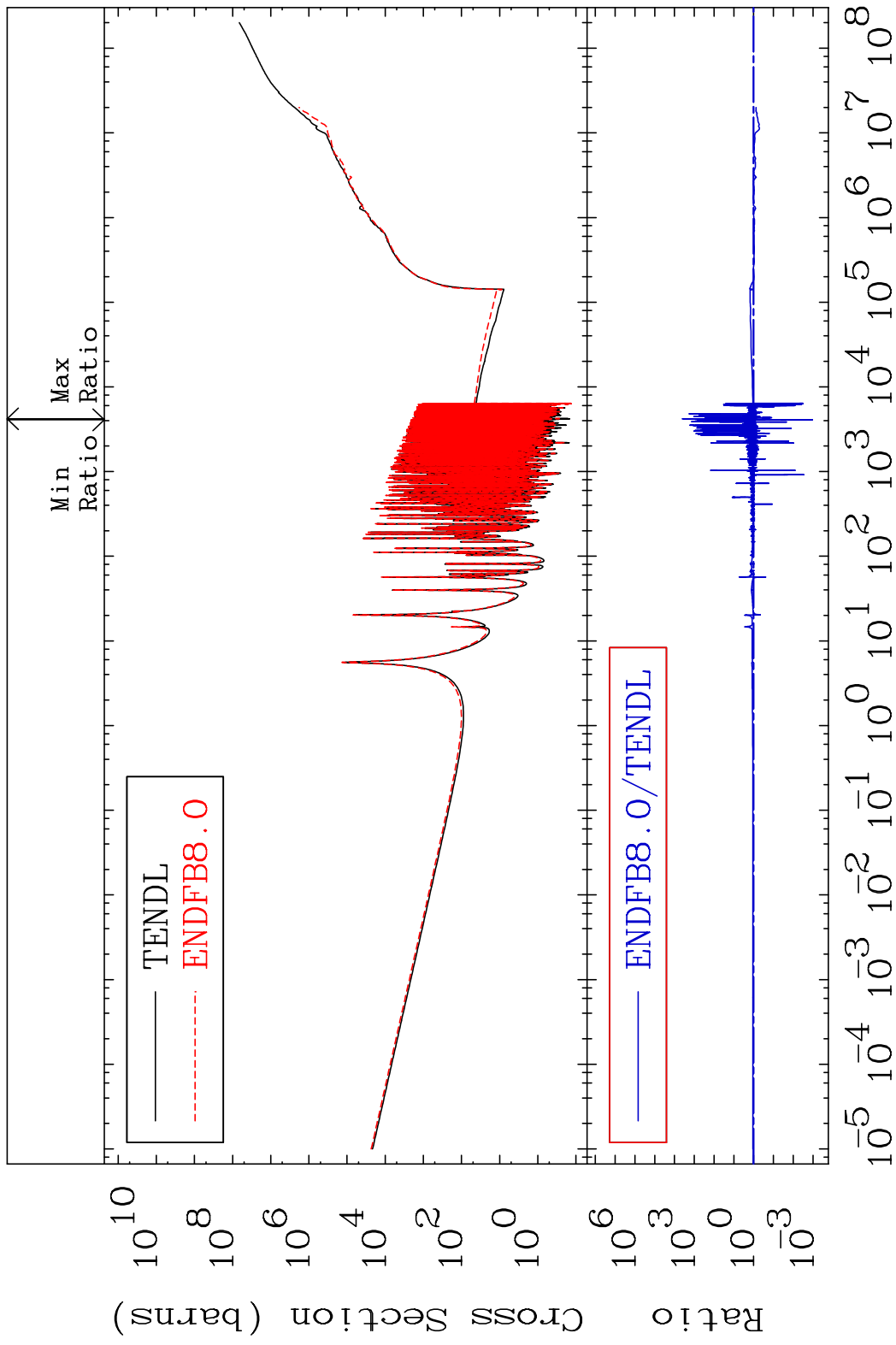
43 Incident Energy (eV) 43-Tc-99

MAT 4325

Kerma elastic Cross Section -97.65 To 3380. %  
43-Tc-99

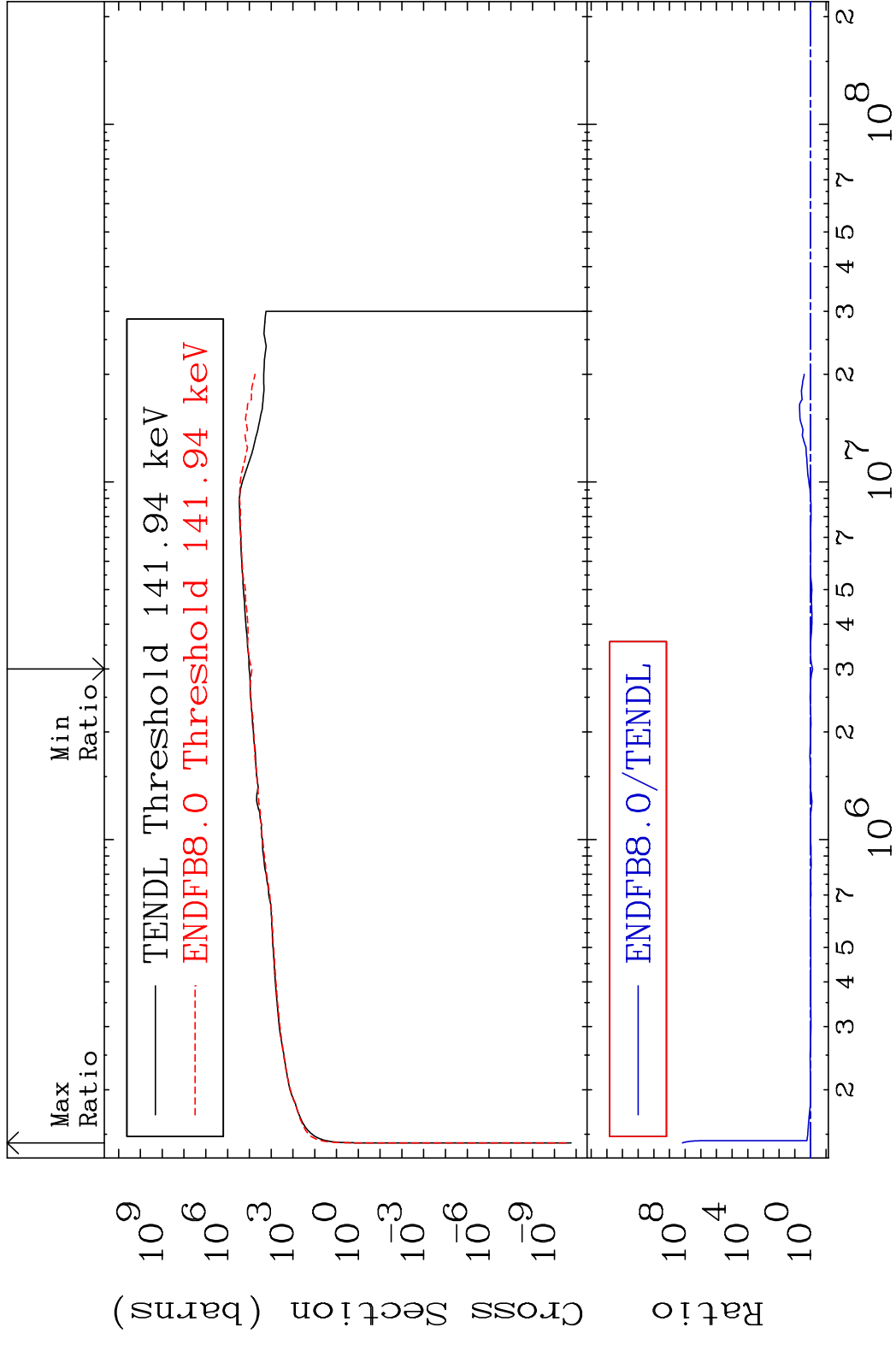


MAT 4325 Kerma non-elastic (all but mt2) 43-Tc-99  
 Cross Section -99.89 To 9999. %

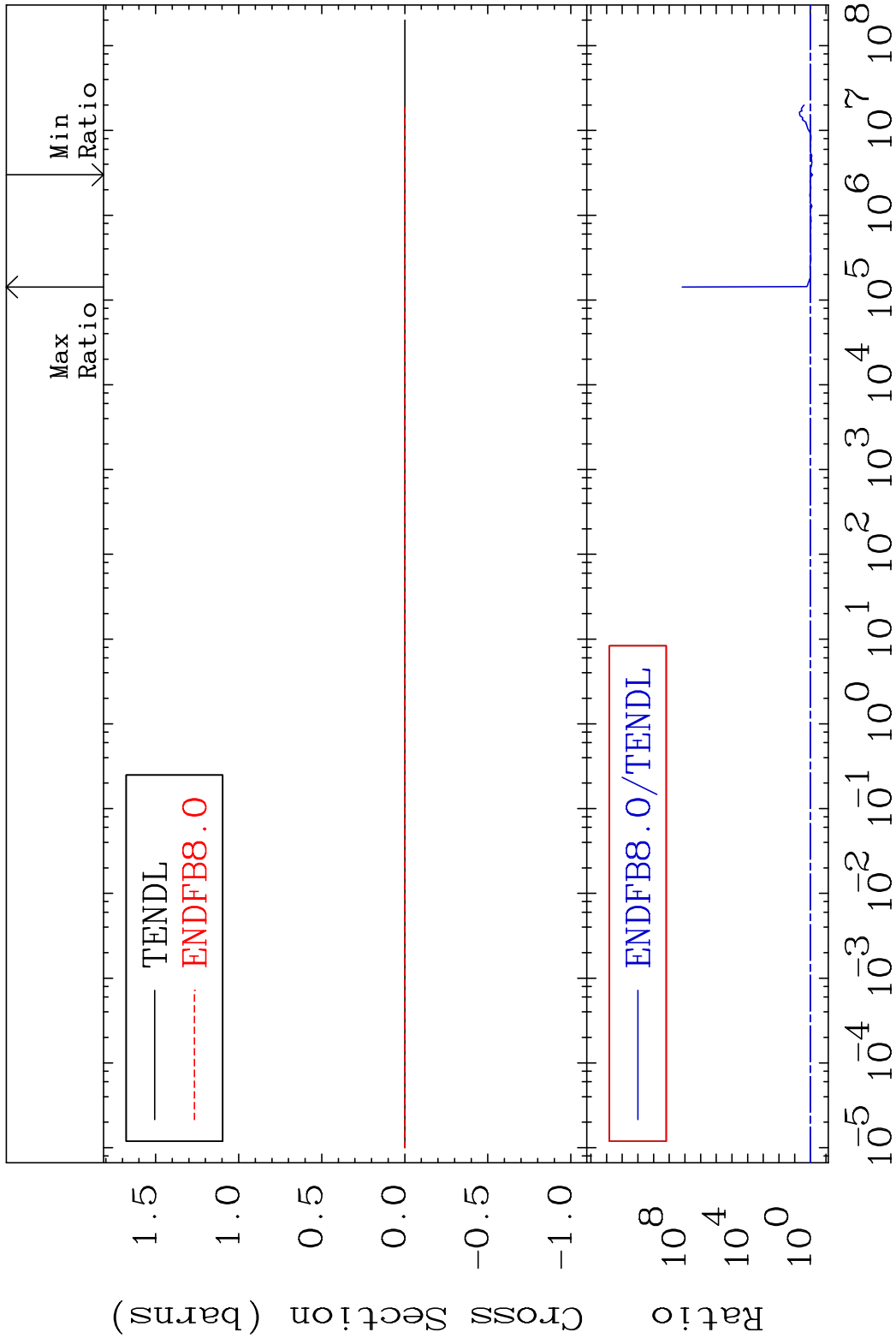


45 Incident Energy (eV) 43-Tc-99

MAT 4325 Kerma inelastic (mt51-91) 43-Tc-99  
 Cross Section -27.11 To 9999. %

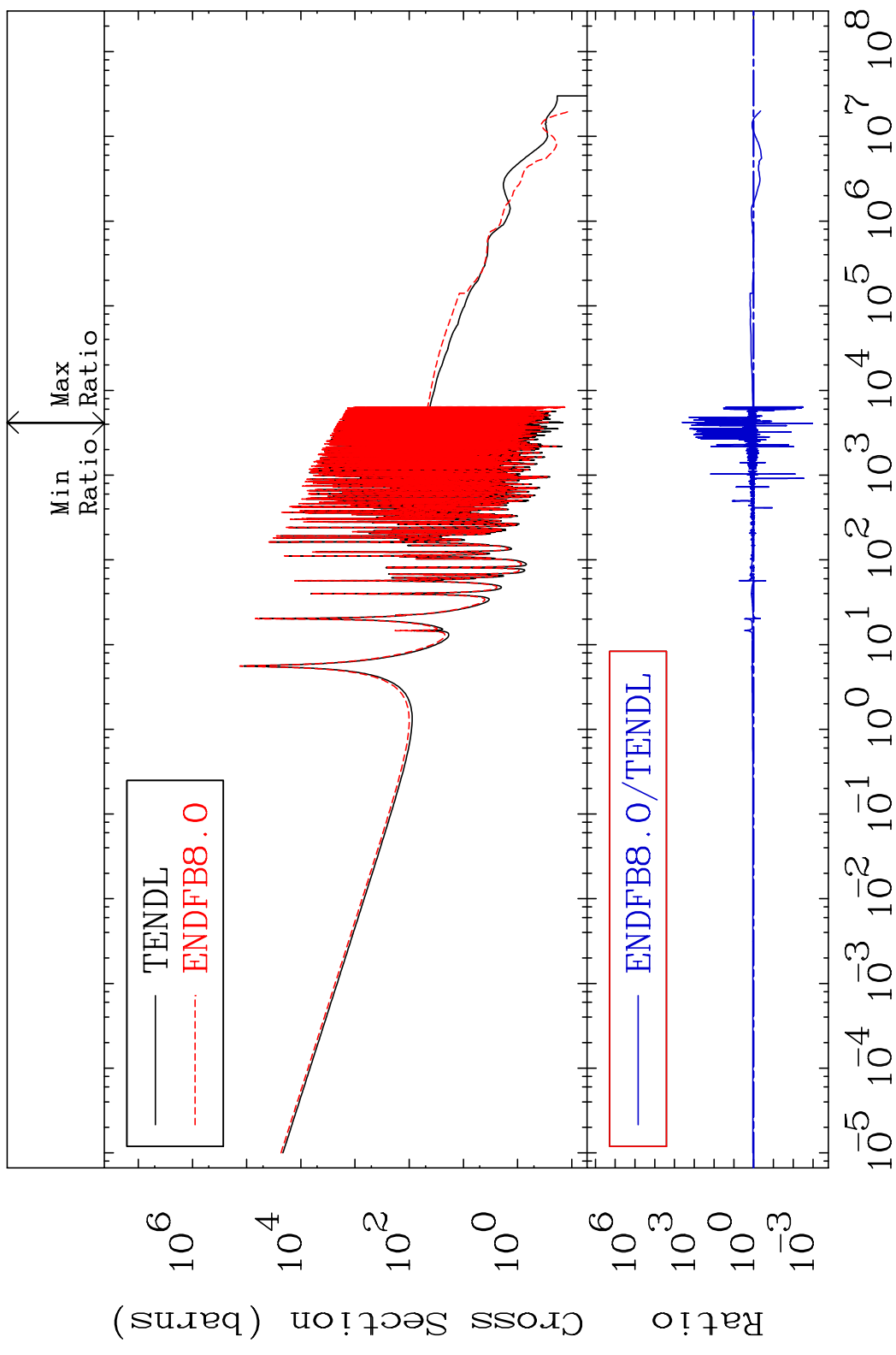


MAT 4325 Kerma fission (mt18 or mt19-20-21-38) 43-Tc-99  
 Cross Section -27.11 To 9999. %



MAT 4325

Kerma capture (mt102) 43-Tc-99  
Cross Section -99.89 To 9999. %

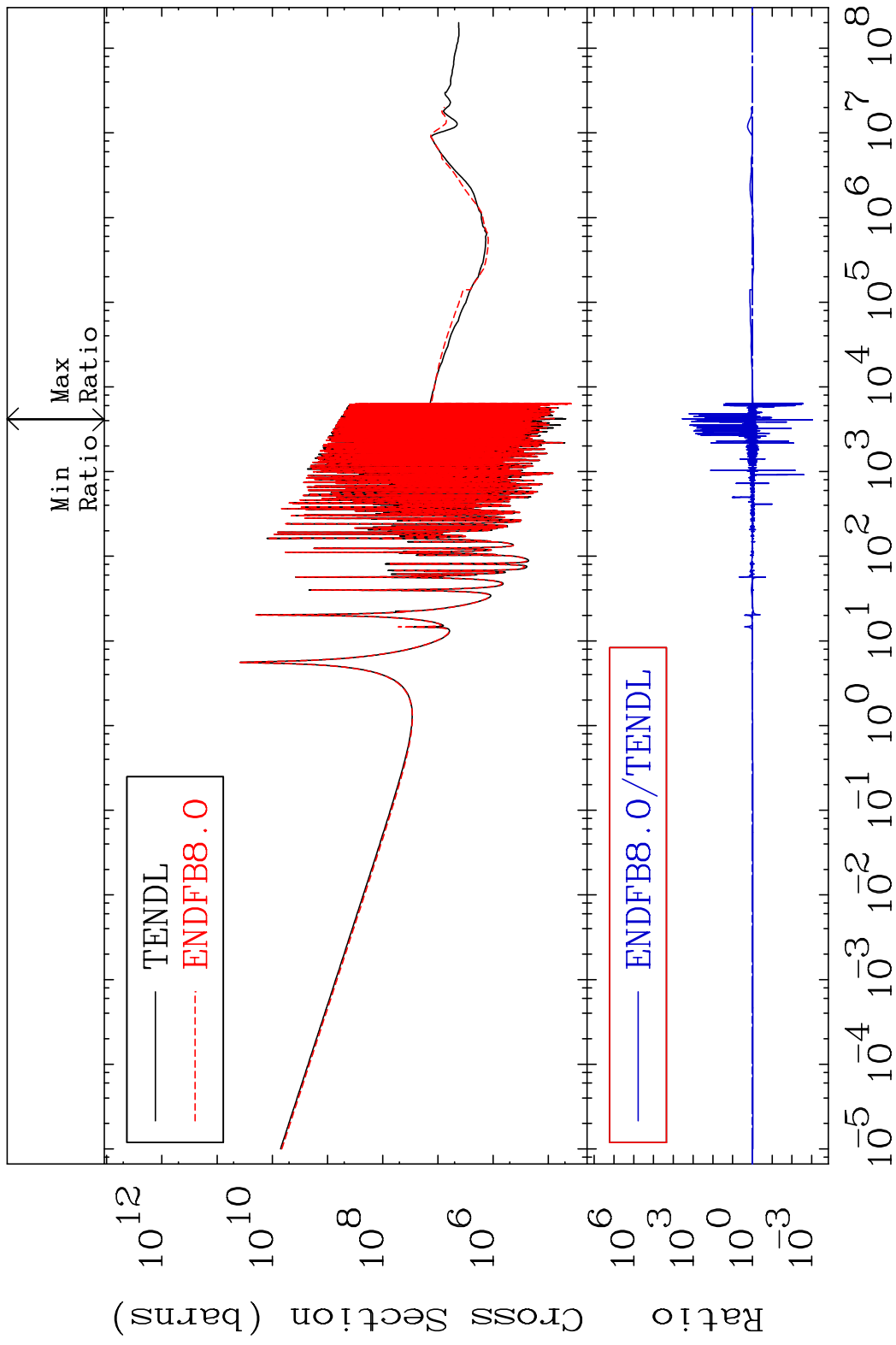


48

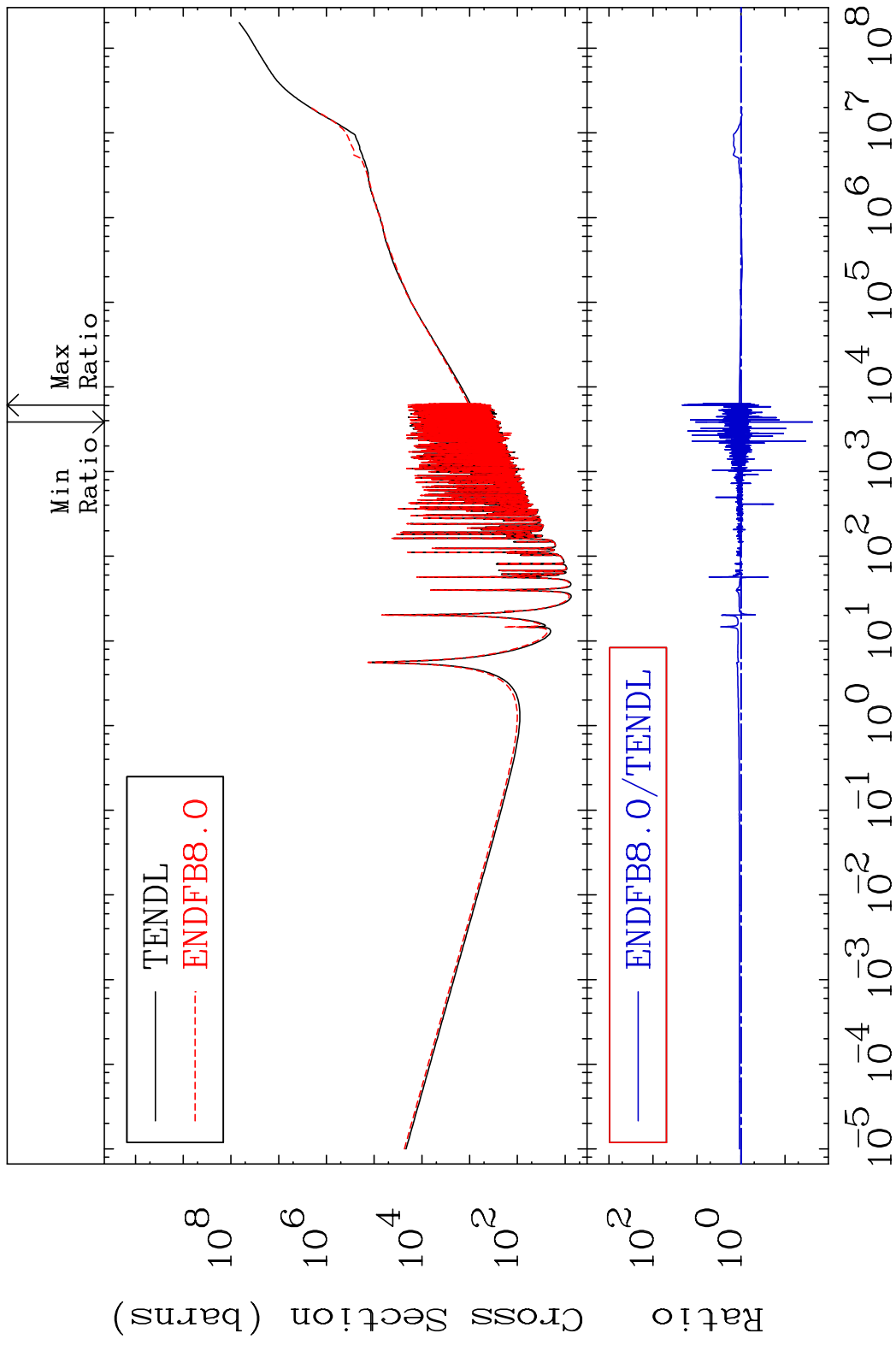
Incident Energy (eV)

43-Tc-99

MAT 4325 Total photon (eV-barns) 43-Tc-99  
 Cross Section -99.91 To 9999. %



MAT 4325 Total kinematic kerma (high limit) 43-Tc-99  
 Cross Section -97.63 To 2043. %

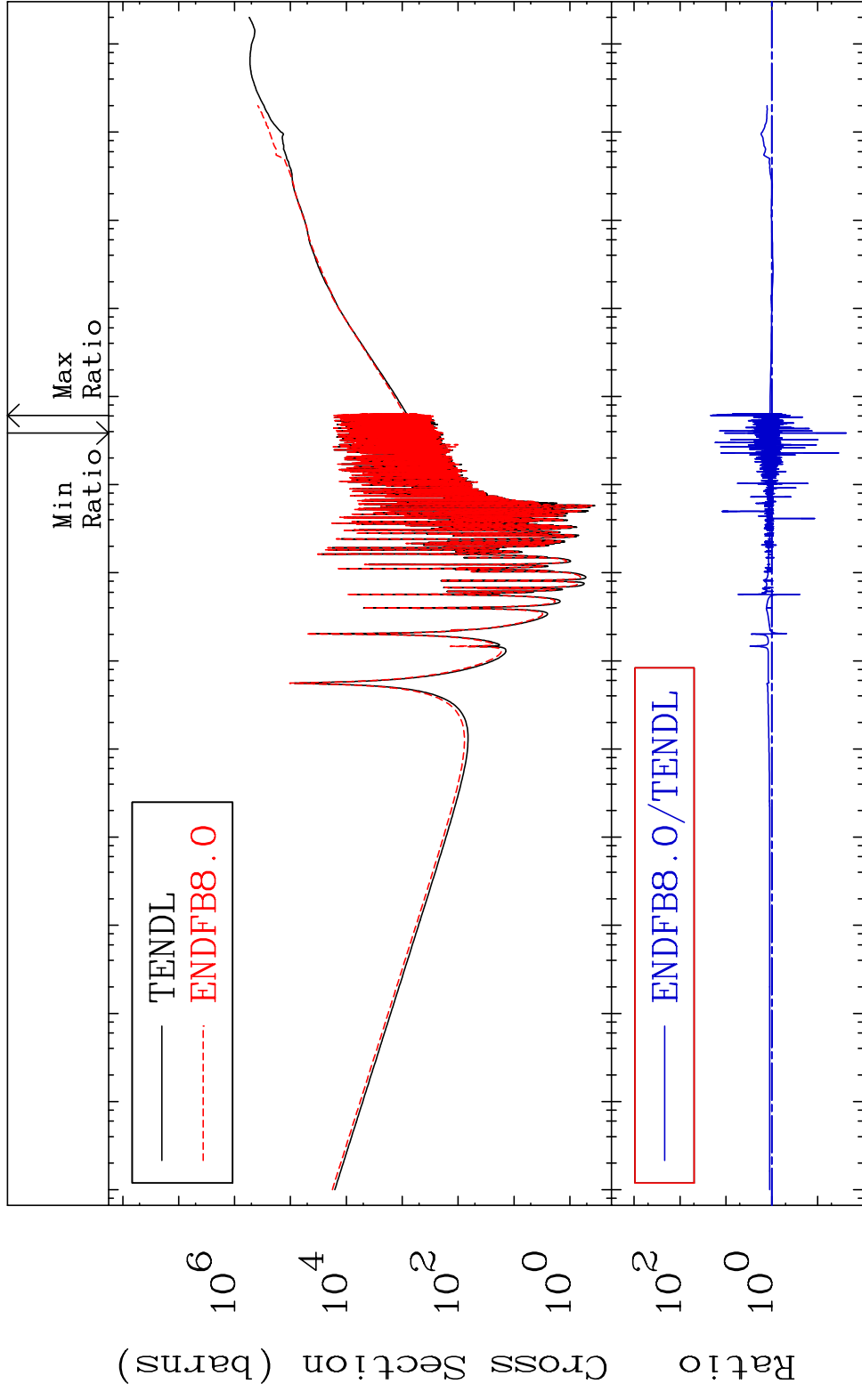


MAT 4325

Dpa total (eV-barns)

43-Tc-99

Cross Section -97.62 To 2044. %



51

Incident Energy (eV)

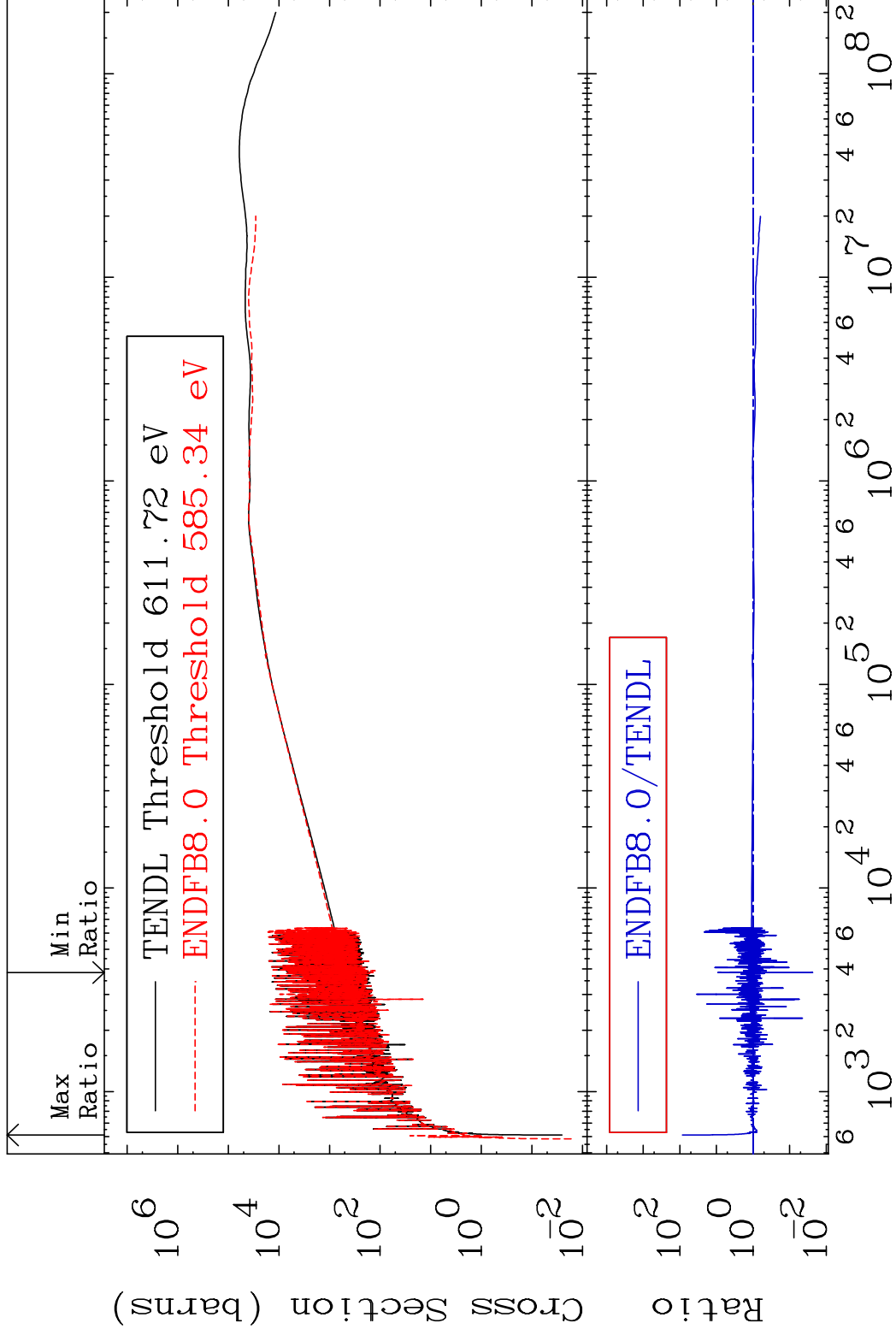
43-Tc-99

MAT 4325

Dpa elastic (mt2)

43-Tc-99

Cross Section -97.64 To 8406. %

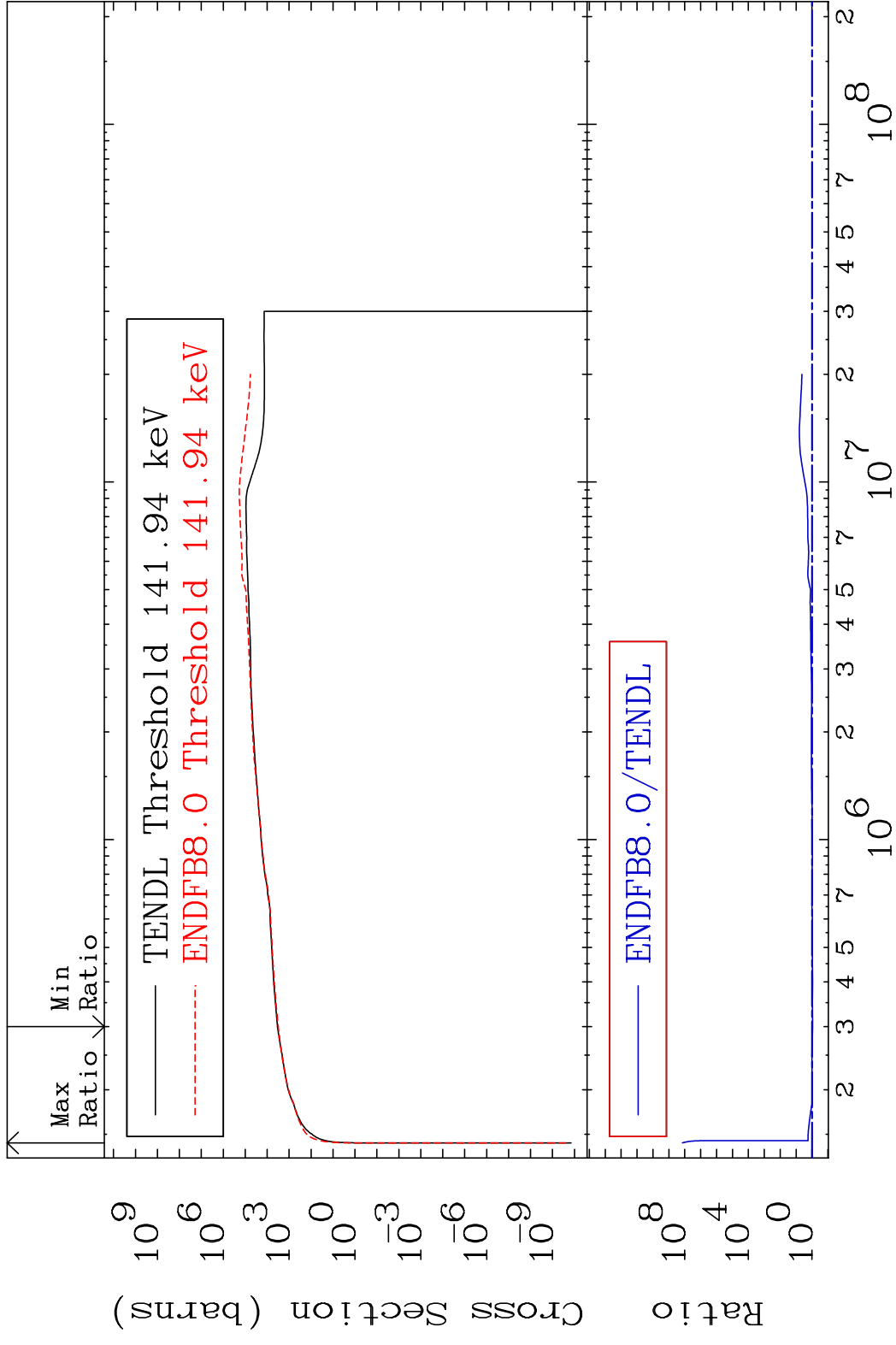


52

Incident Energy (eV)

43-Tc-99

MAT 4325 Dpa inelastic (mt51-91) 43-Tc-99  
 Cross Section -7.256 To 9999. %



MAT 4325 Dpa disappearance (mt102 -120) 43-Tc-99  
 Cross Section -99.89 To 9999. %

