

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

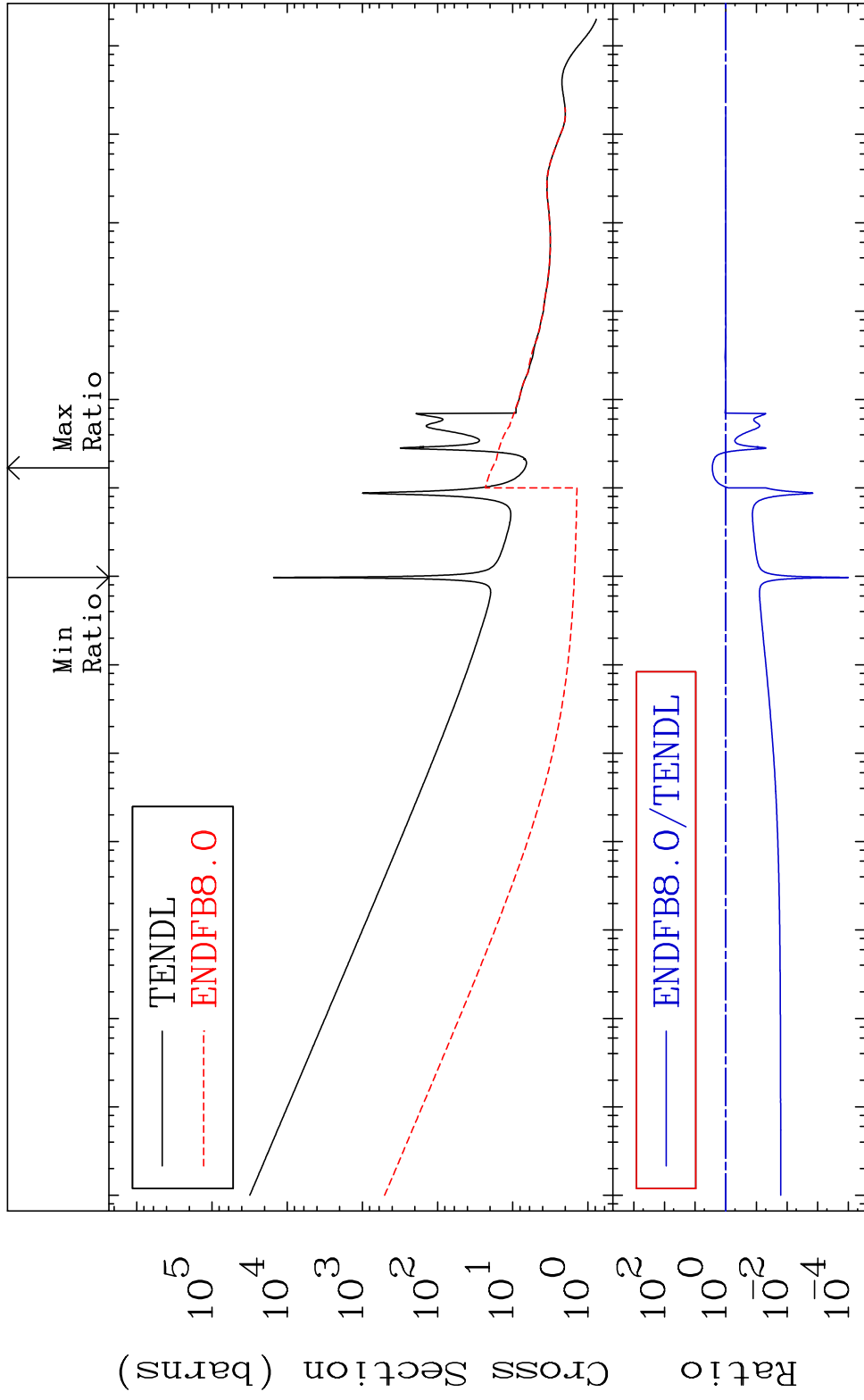
Press Mouse Button to Start

MAT 1834

Total

18-Ar-39

Cross Section -99.99 To 173.2 %



1

Incident Energy (eV)

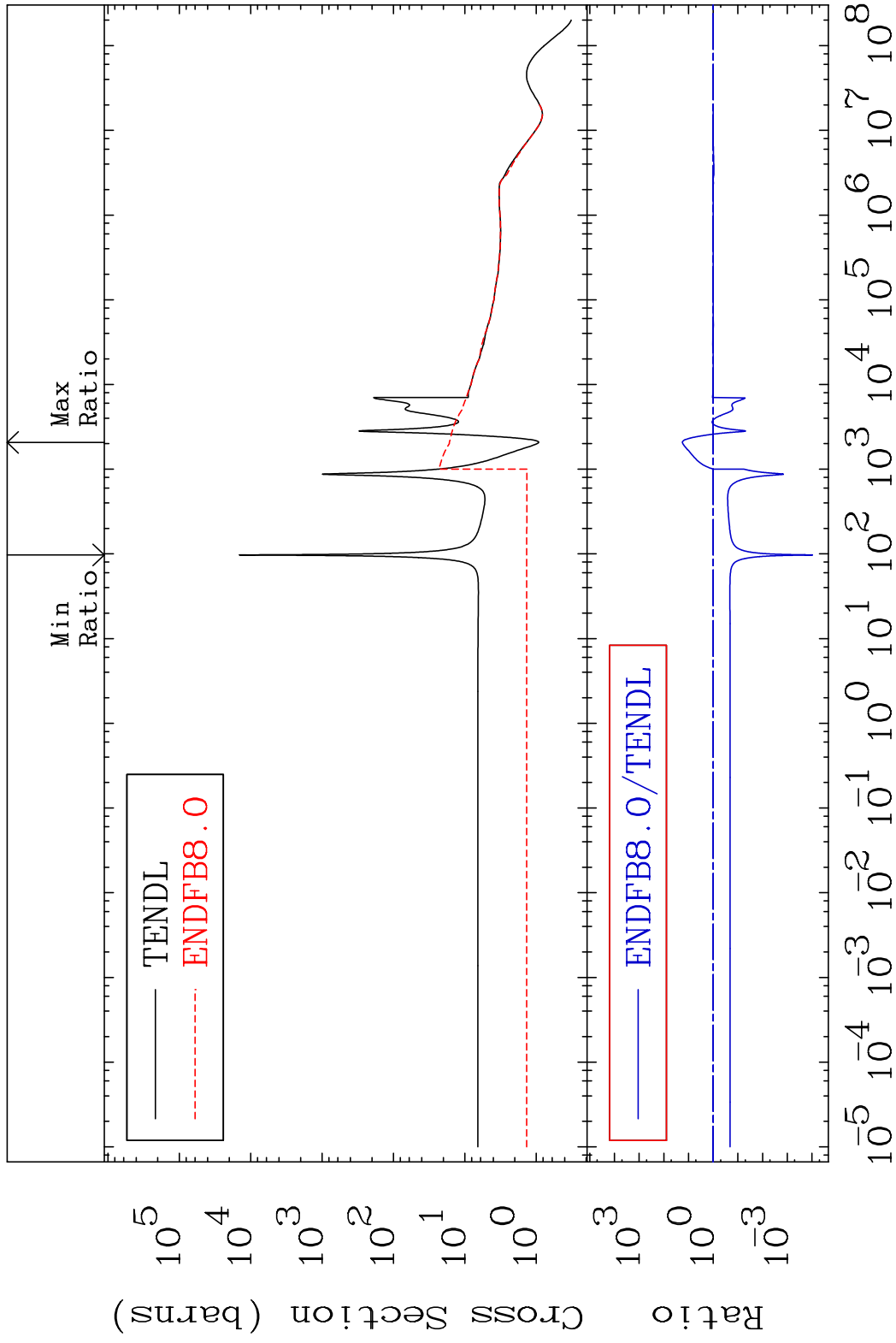
18-Ar-39

MAT 1834

Elastic

18-Ar-39

Cross Section -99.99 To 1675. %

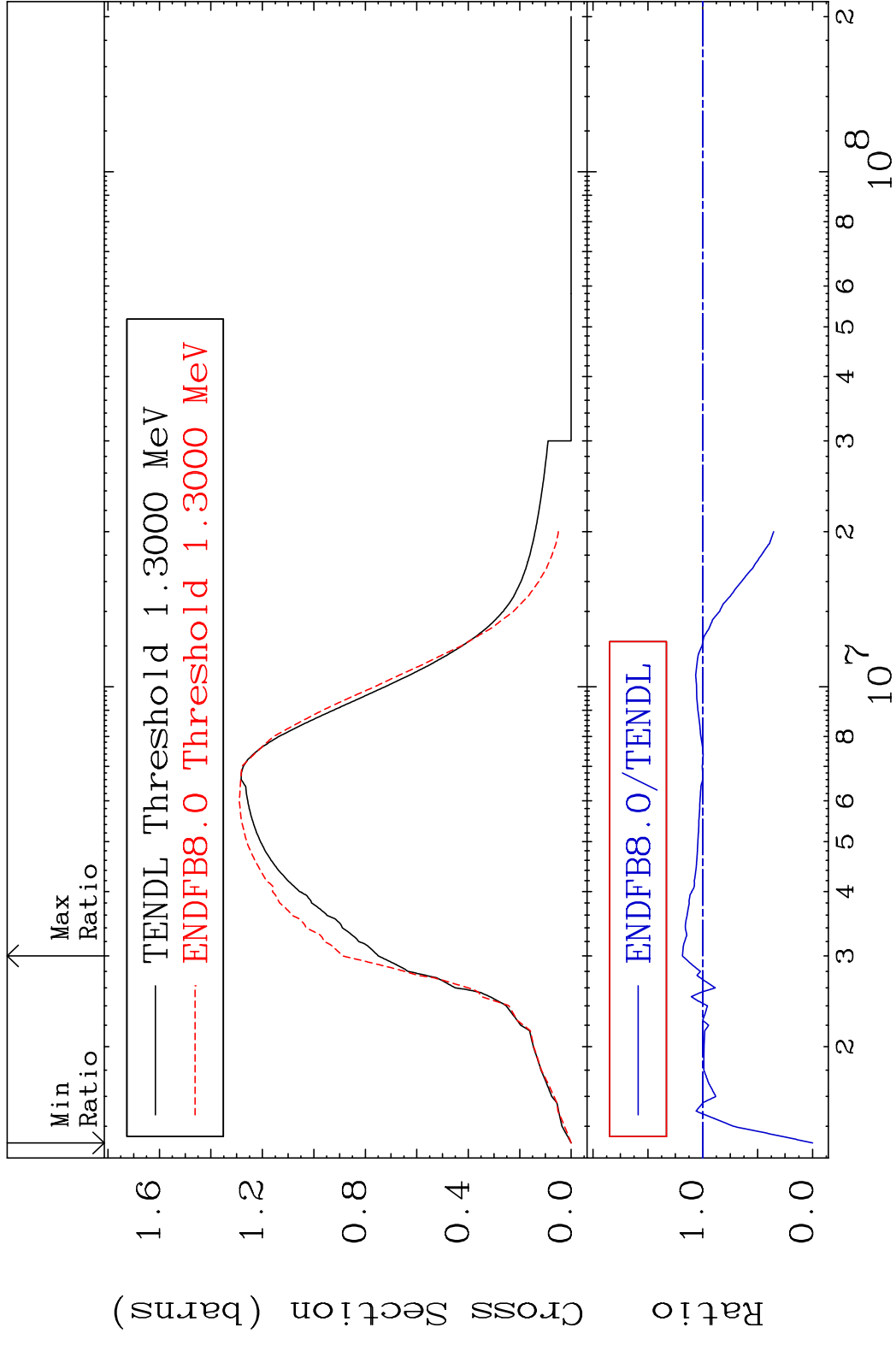


2

Incident Energy (eV)

18-Ar-39

MAT 1834 Inelastic 18-Ar-39  
 Cross Section -100.0 To 18.57 %

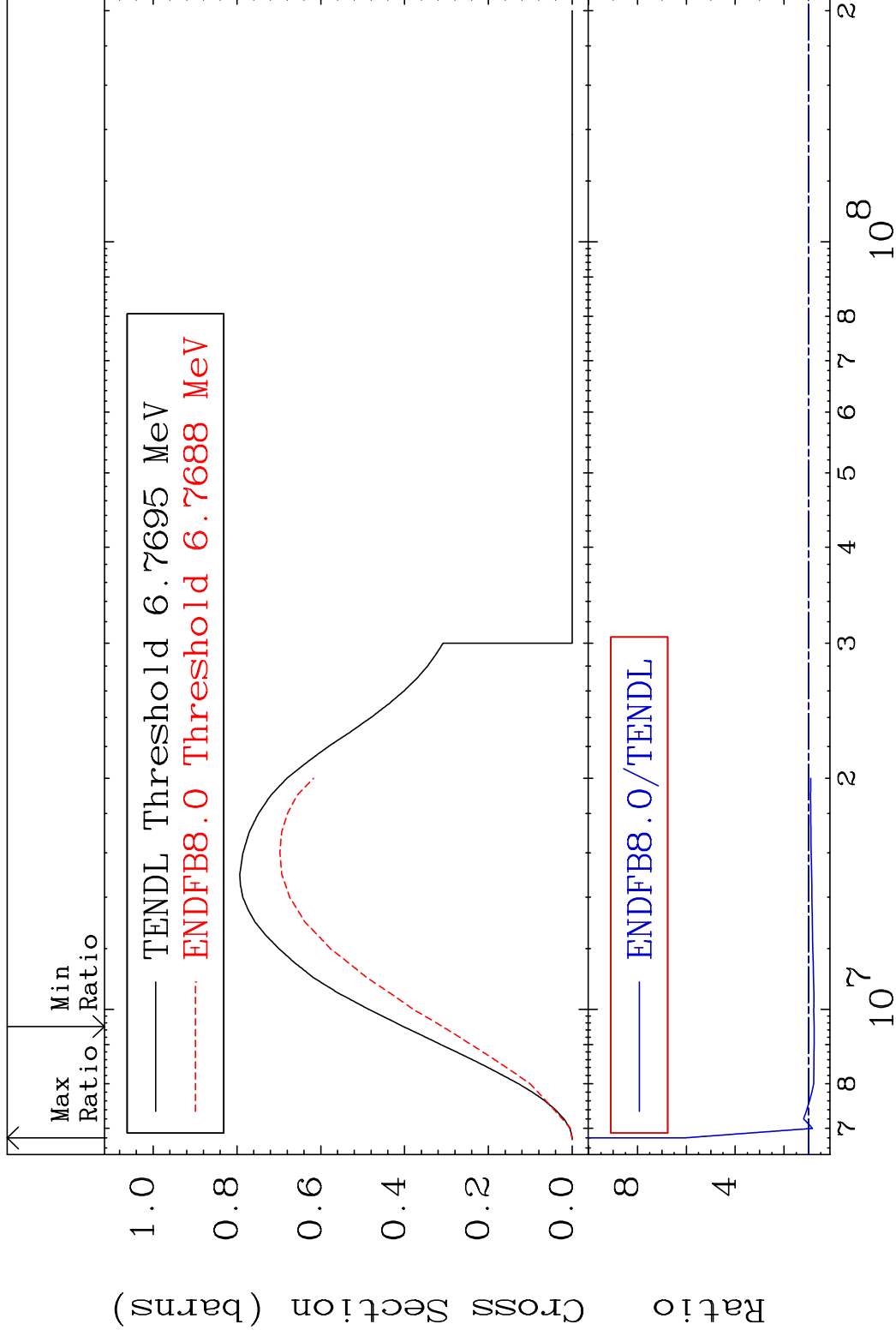


MAT 1834

(n,2n)

18-Ar-39

Cross Section -23.12 To 511.1 %

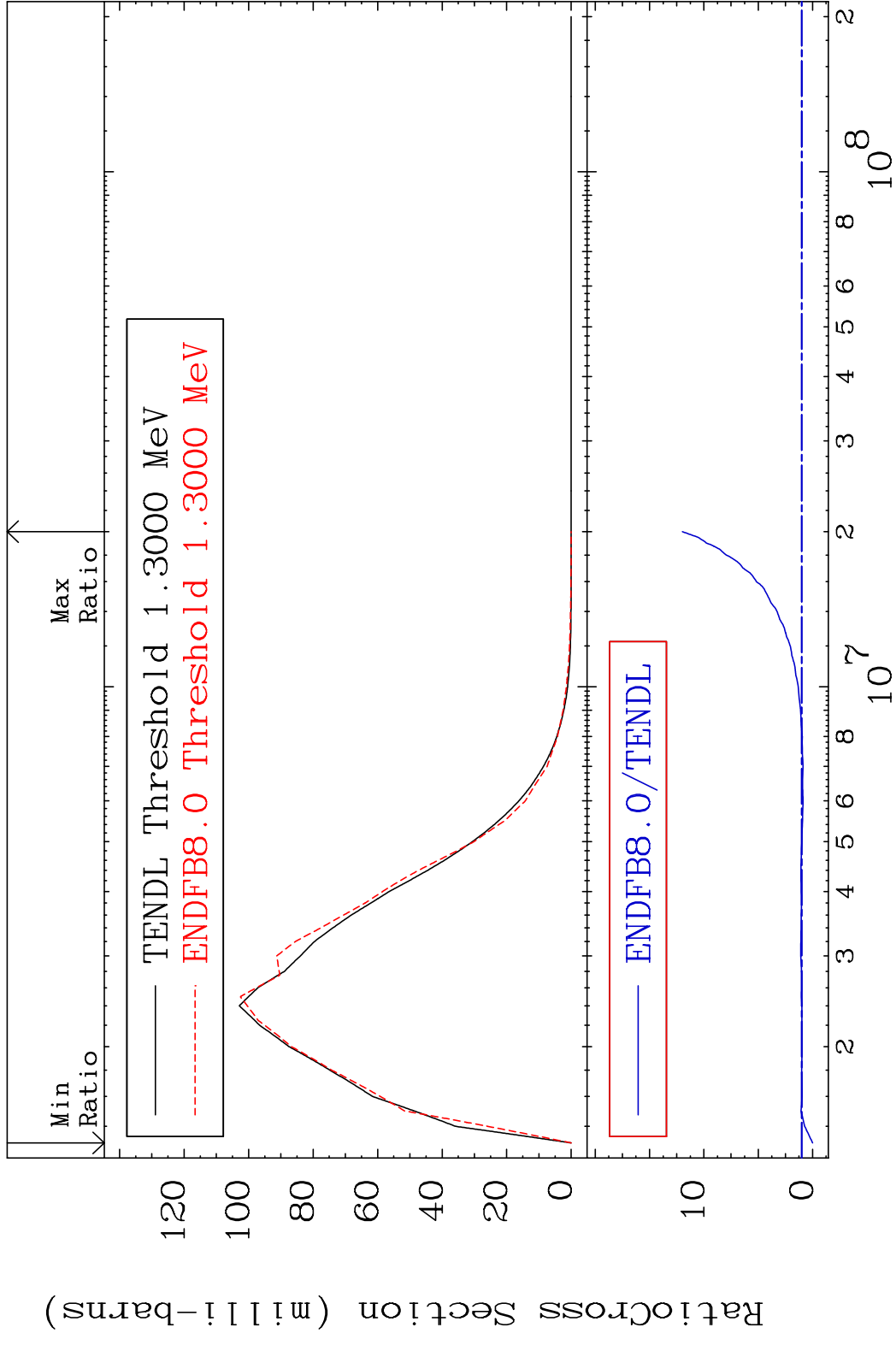


4

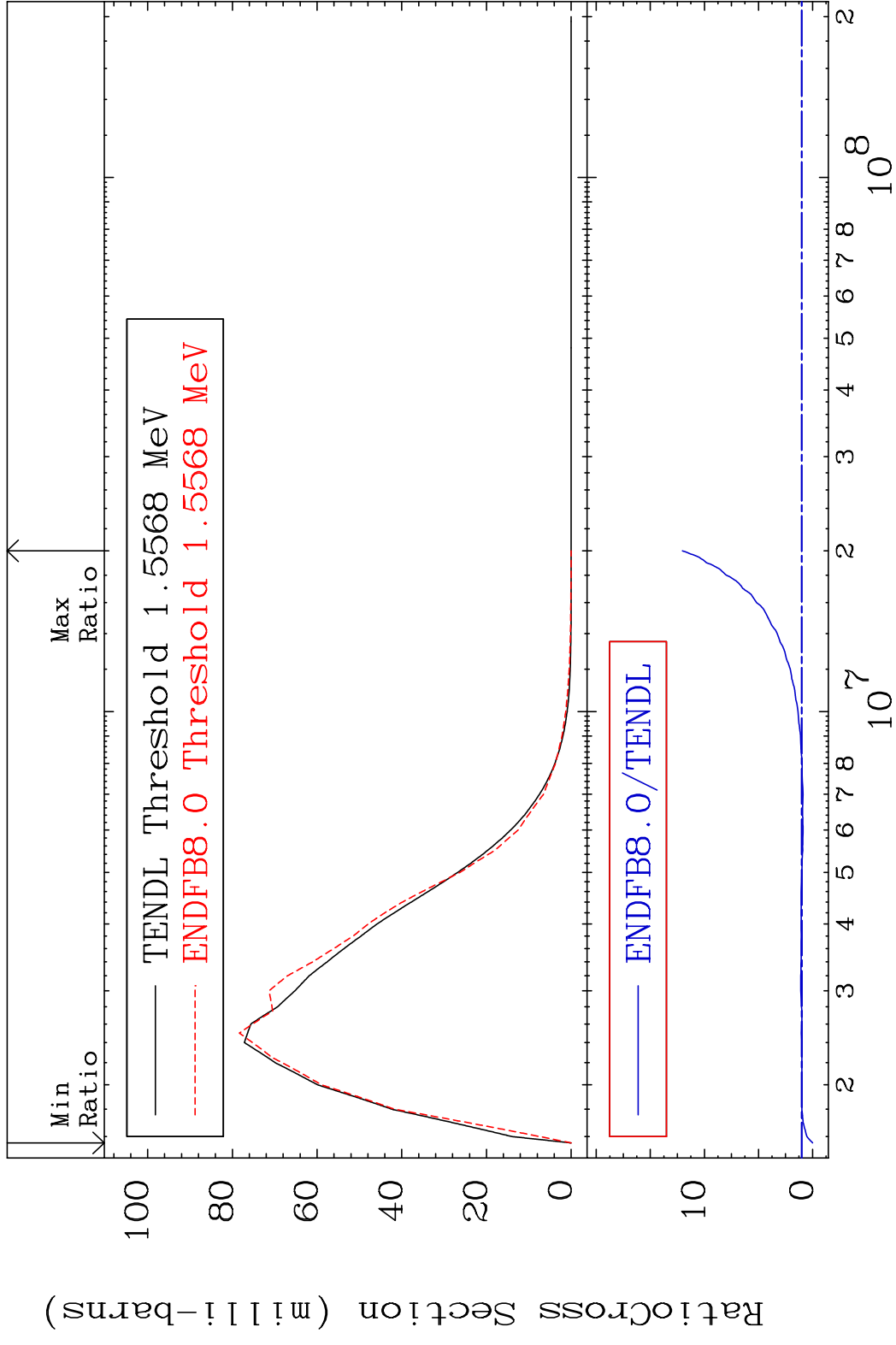
Incident Energy (eV)

18-Ar-39

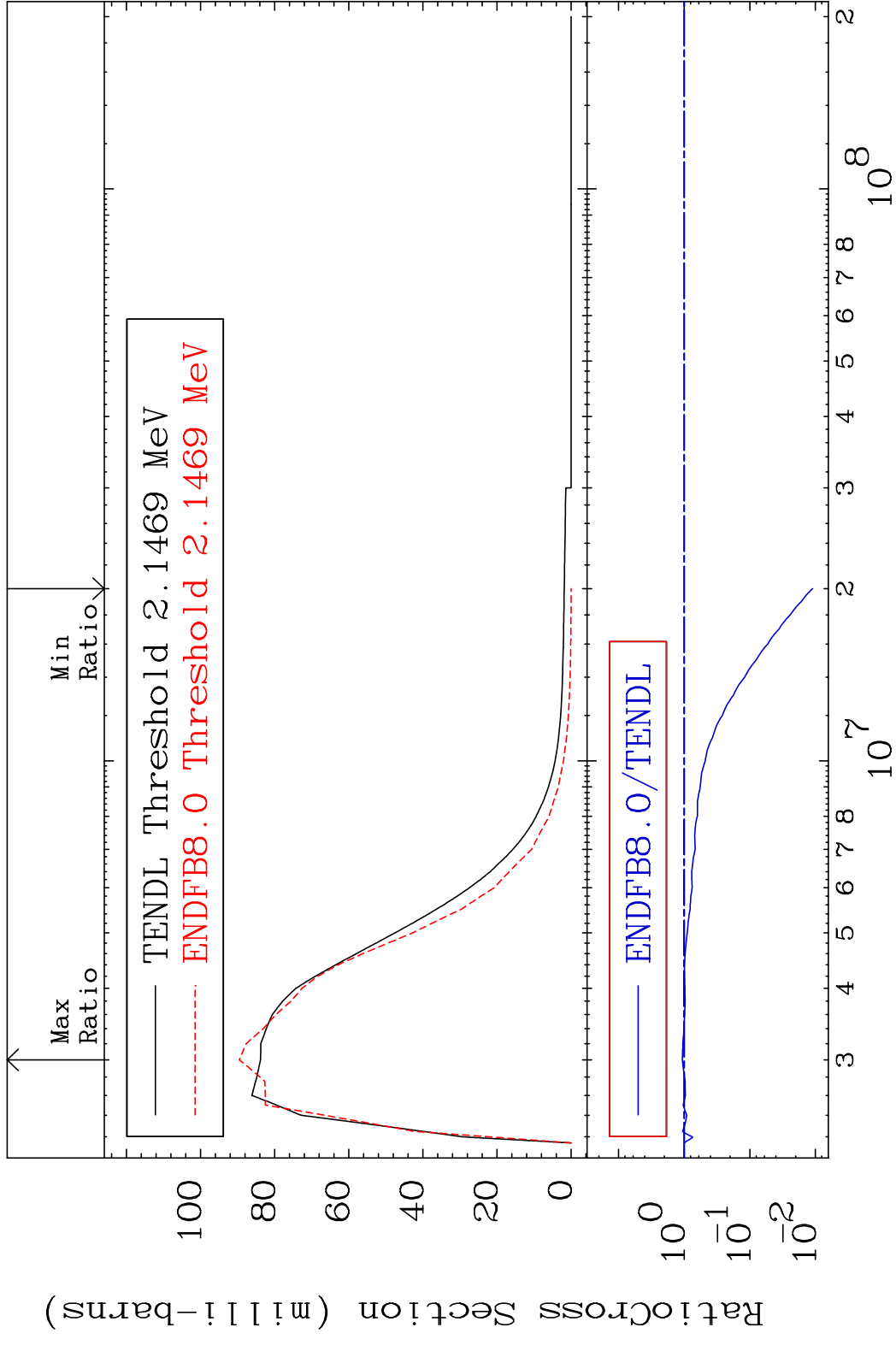
MAT 1834 MT= 51 (n, n') Level 18-Ar-39  
 Cross Section -100.0 To 1098. %



MAT 1834 MT= 52 (n, n') Level 18-Ar-39  
 Cross Section -100.0 To 1104. %



MAT 1834 MT= 53 (n, n') Level 18-Ar-39  
 Cross Section -98.89 To 6.803 %

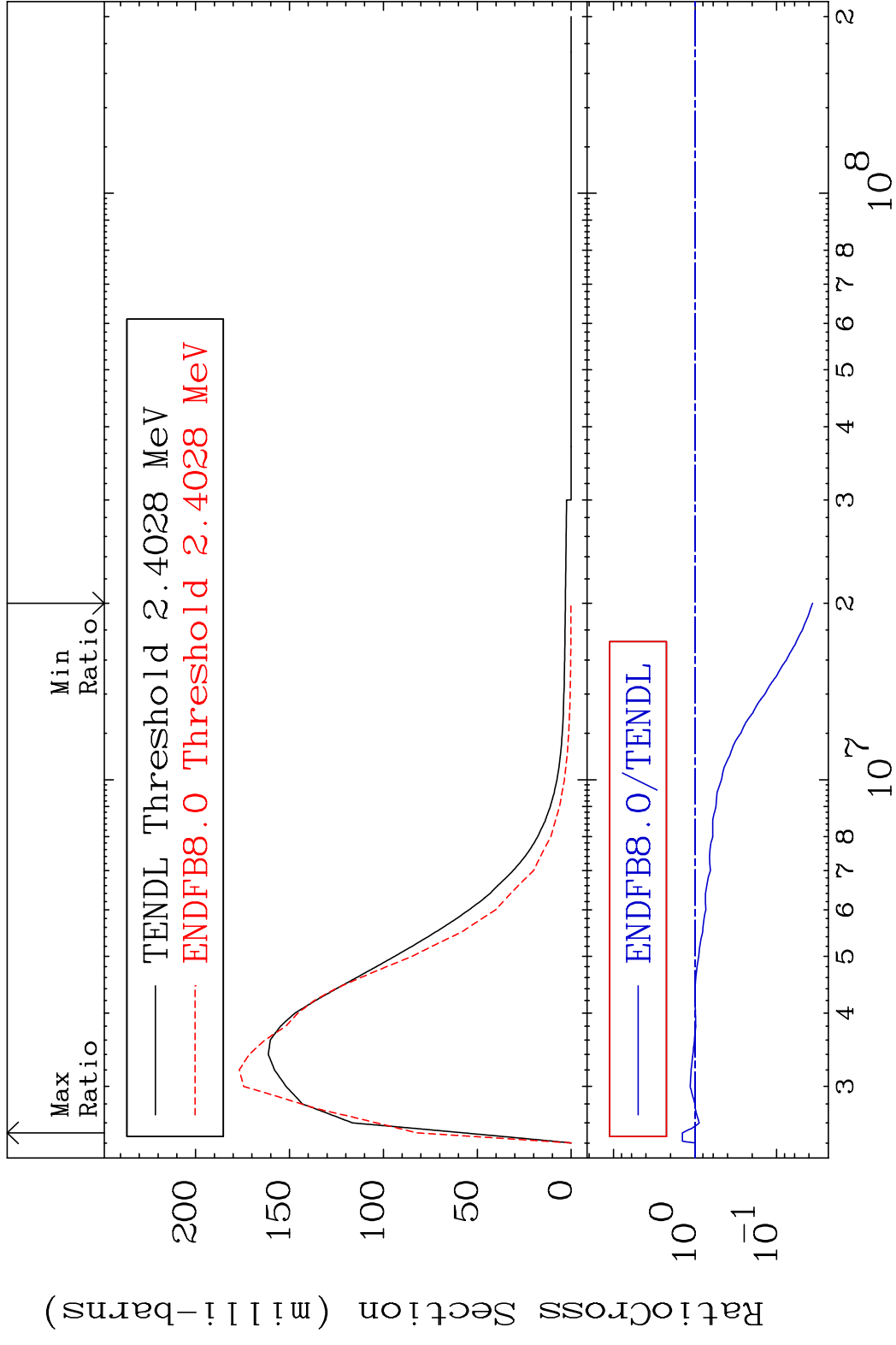


MAT 1834

MT= 54 (n,n') Level

18-Ar-39

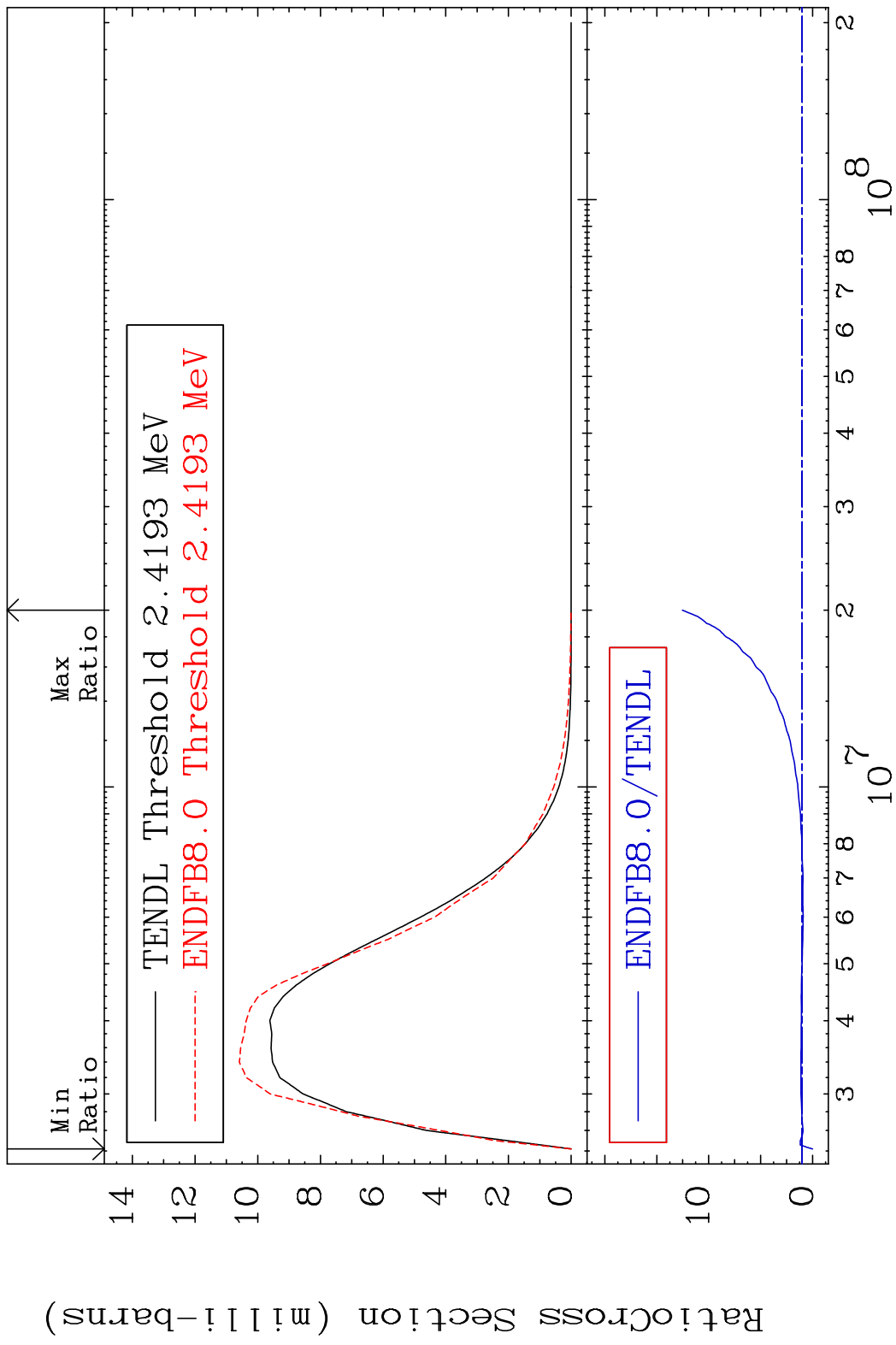
Cross Section -96.38 To 43.23 %



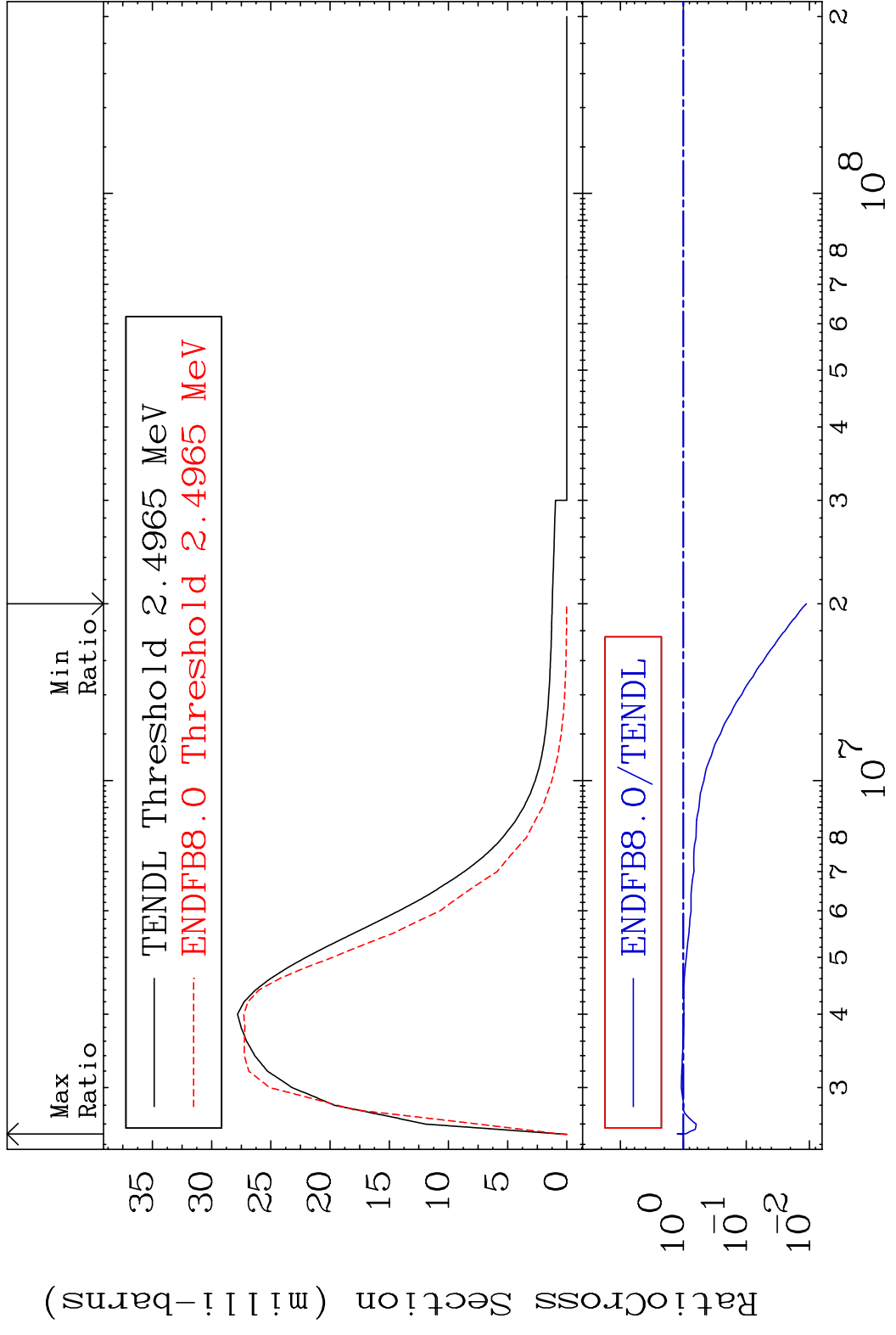
8

18-Ar-39

MAT 1834 MT= 55 (n, n') Level 18-Ar-39  
 Cross Section -100.0 To 1154. %

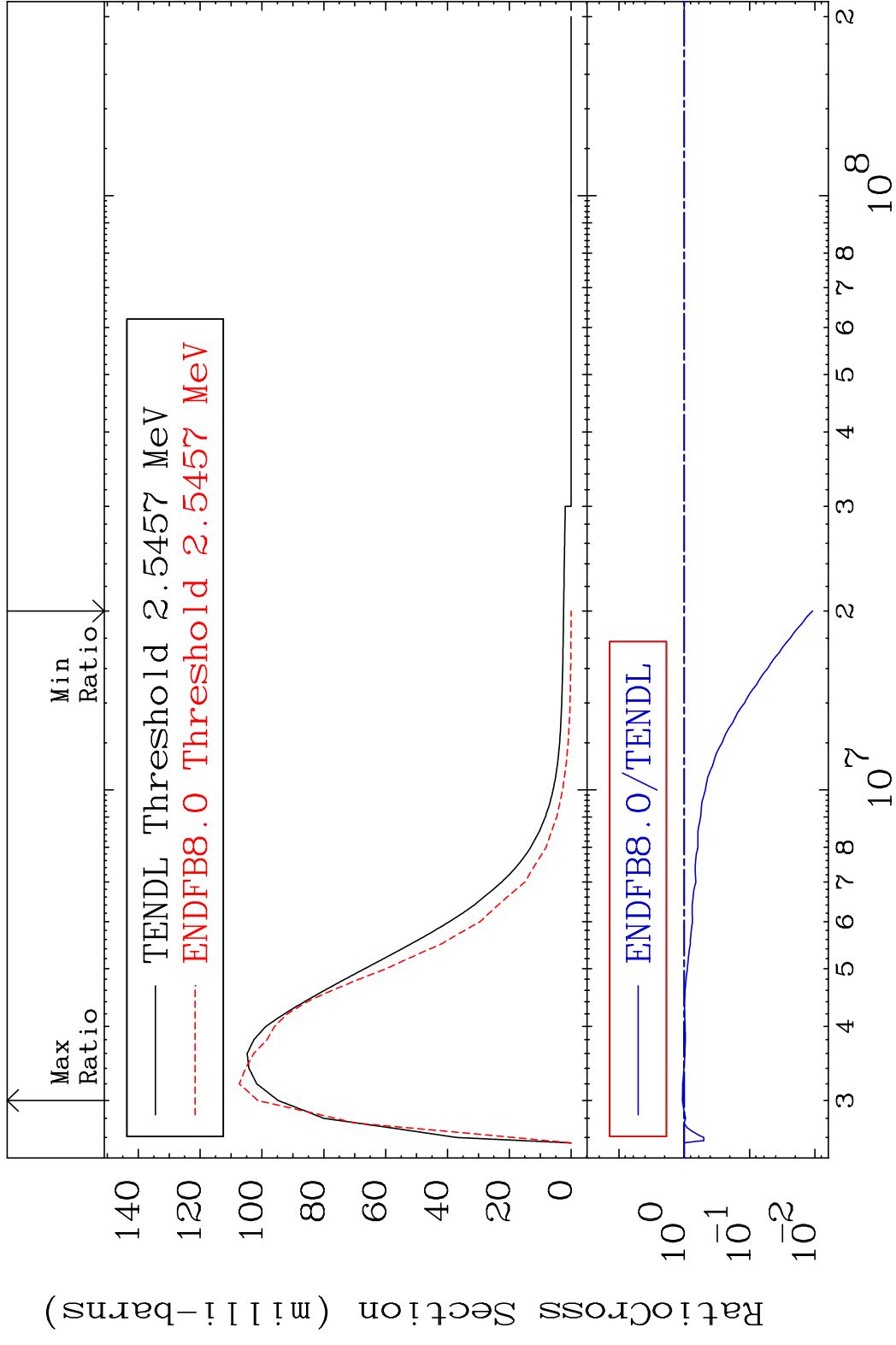


MAT 1834 MT= 56 (n,n') Level 18-Ar-39  
 Cross Section -98.89 To 25.45 %

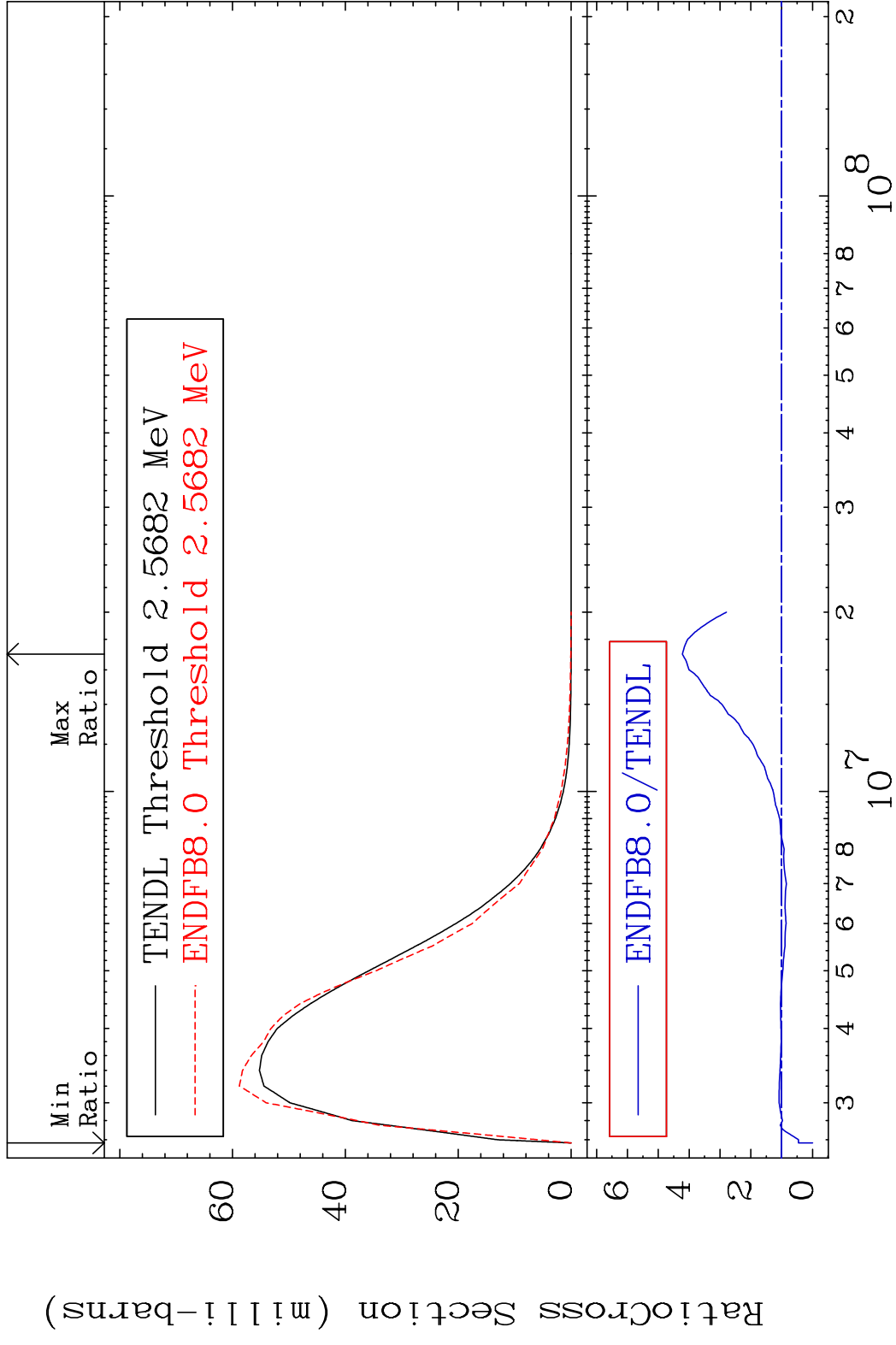


10 10 Incident Energy (eV) 18-Ar-39

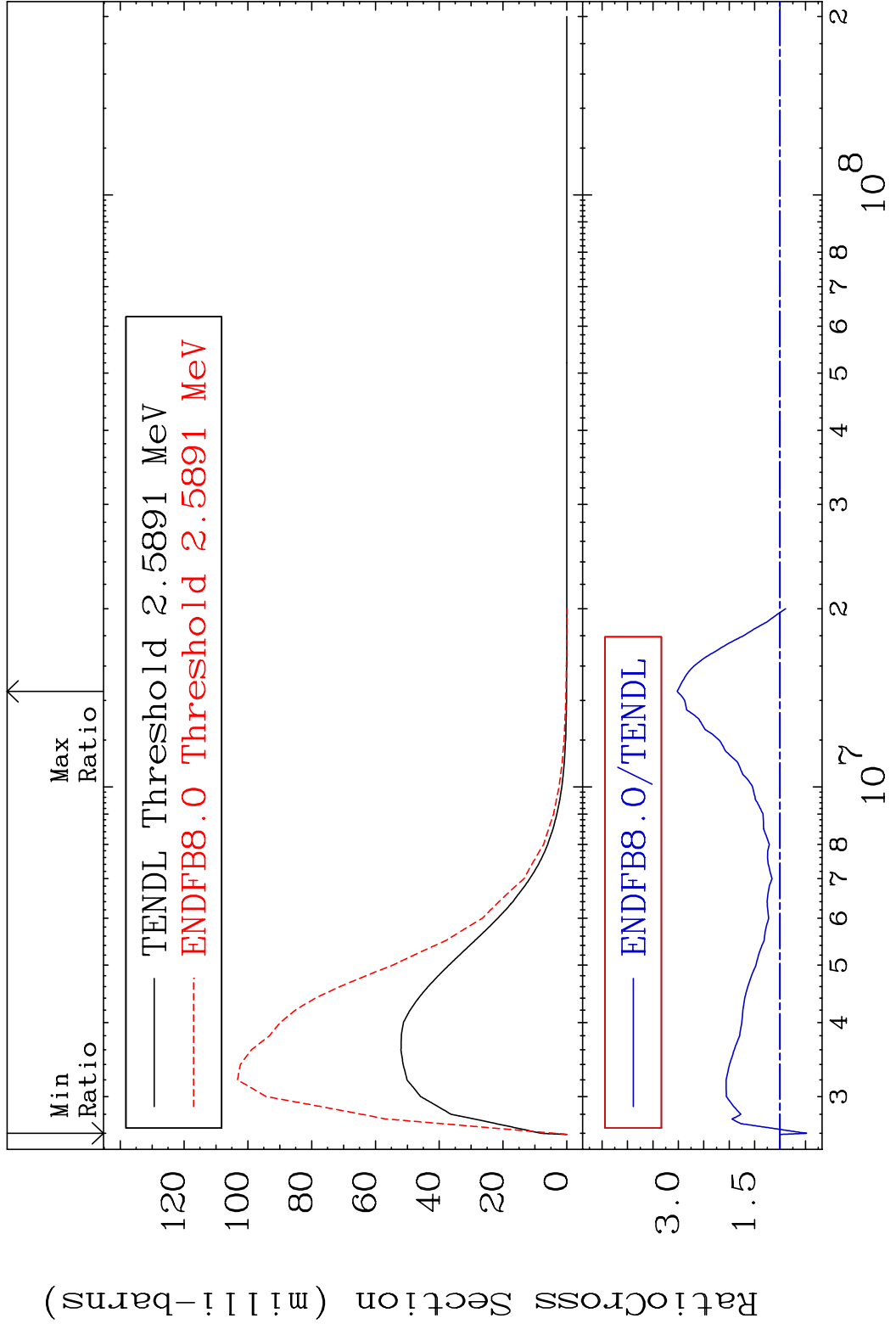
MAT 1834 MT= 57 (n,n') Level 18-Ar-39  
 Cross Section -98.91 To 6.910 %



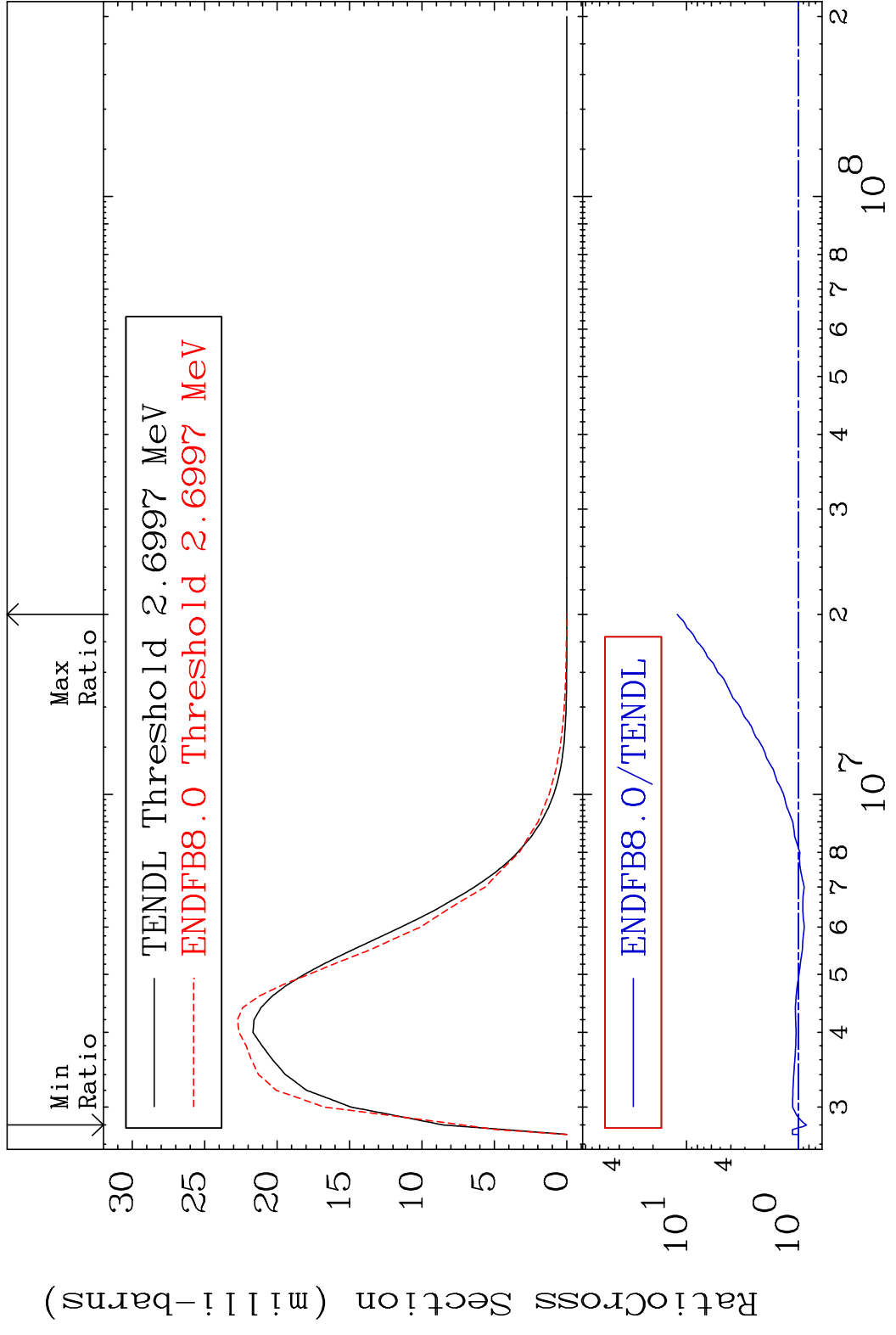
MAT 1834 MT= 58 (n, n') Level 18-Ar-39  
 Cross Section -100.0 To 321.9 %



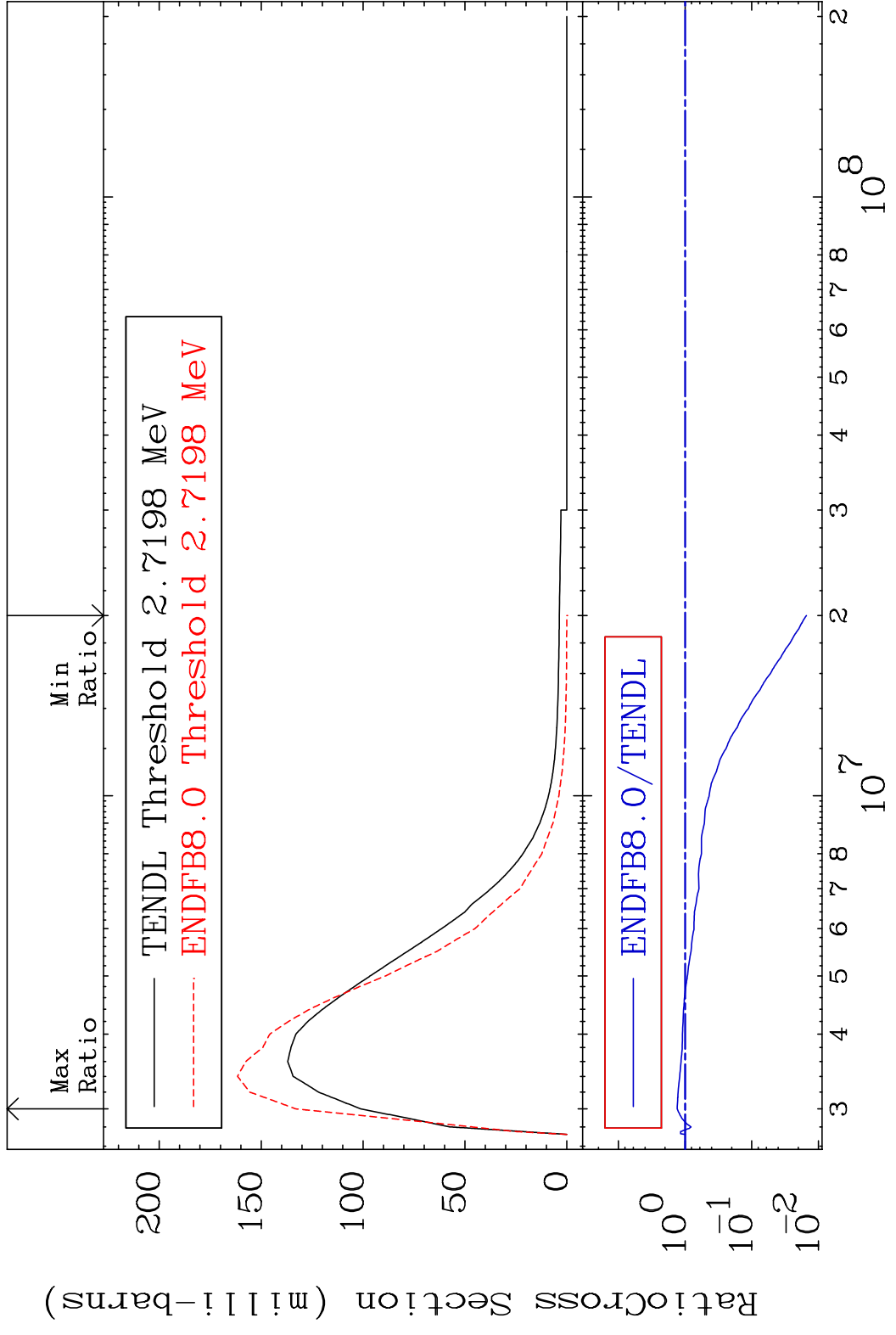
MAT 1834 MT= 59 (n, n') Level 18-Ar-39  
 Cross Section -51.77 To 202.3 %



MAT 1834 MT= 60 (n, n') Level 18-Ar-39  
 Cross Section -15.55 To 1112. %

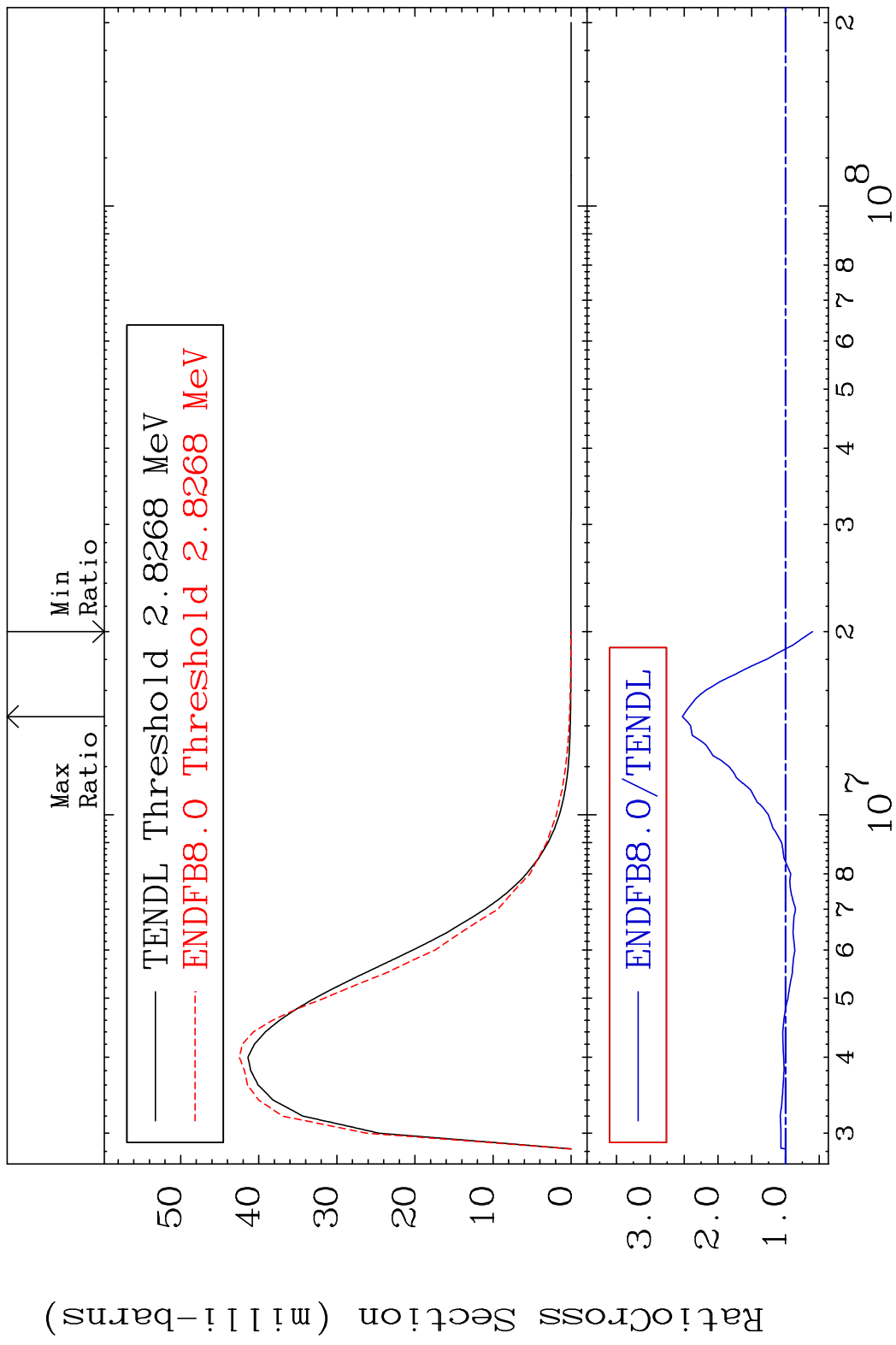


MAT 1834 MT= 61 (n, n') Level 18-Ar-39  
 Cross Section -98.49 To 31.40 %



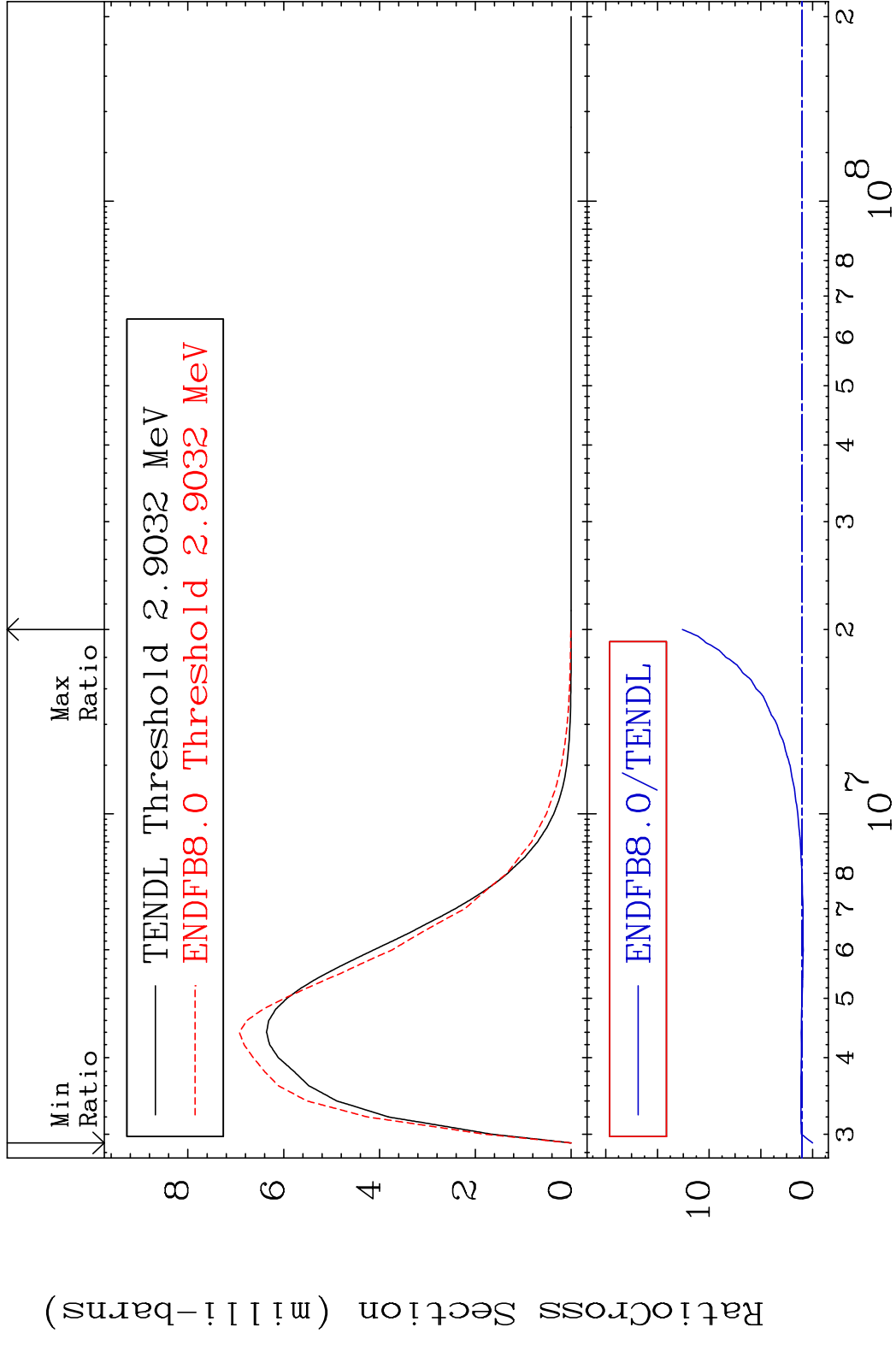
15 Incident Energy (eV) 18-Ar-39

MAT 1834 MT= 62 (n, n') Level 18-Ar-39  
 Cross Section -40.18 To 152.6 %



16 18-Ar-39

MAT 1834 MT= 63 (n,n') Level 18-Ar-39  
 Cross Section -100.0 To 1159. %



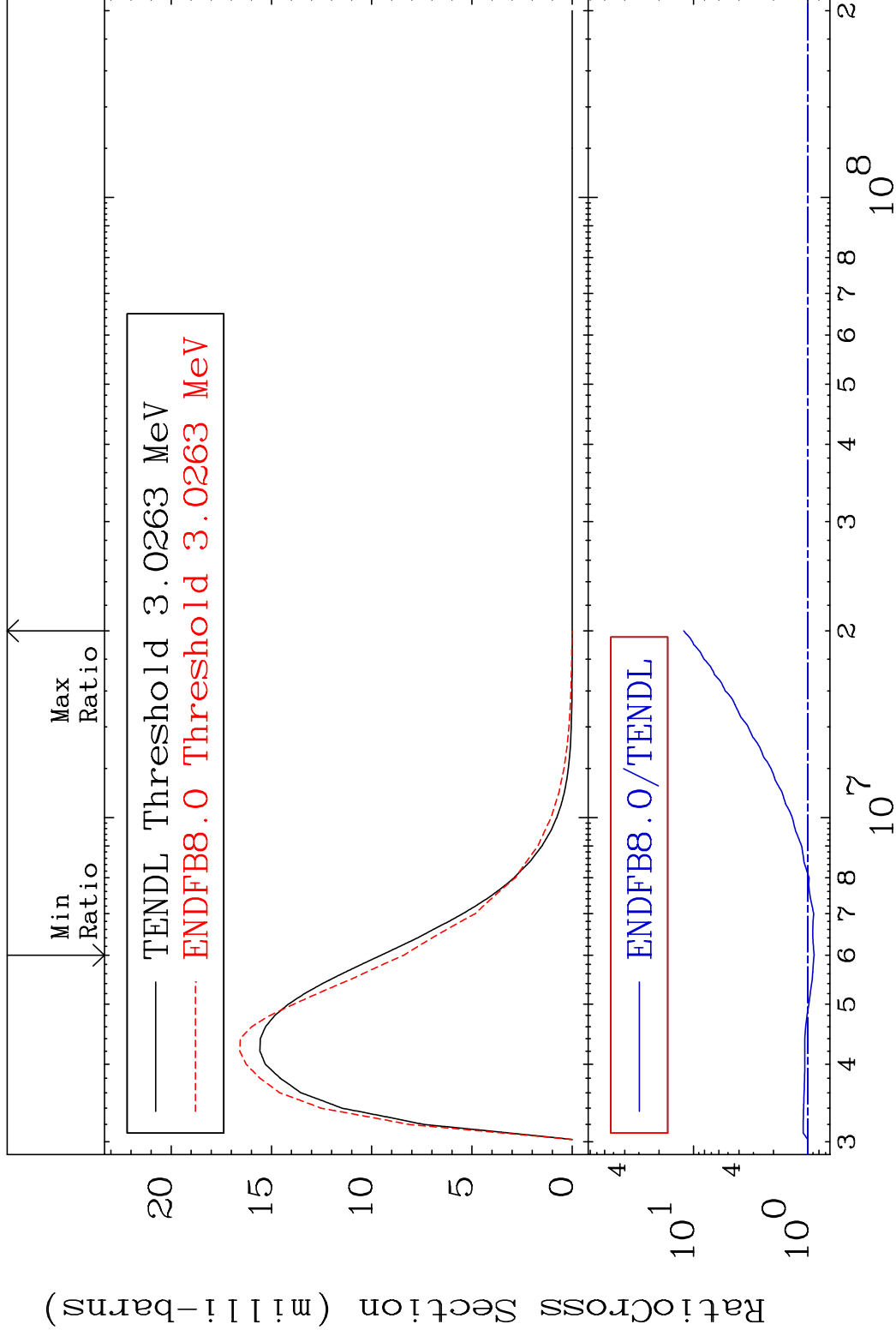
17 18-Ar-39

MAT 1834

MT= 64 (n, n') Level

18-Ar-39

Cross Section -11.81 To 1120. %

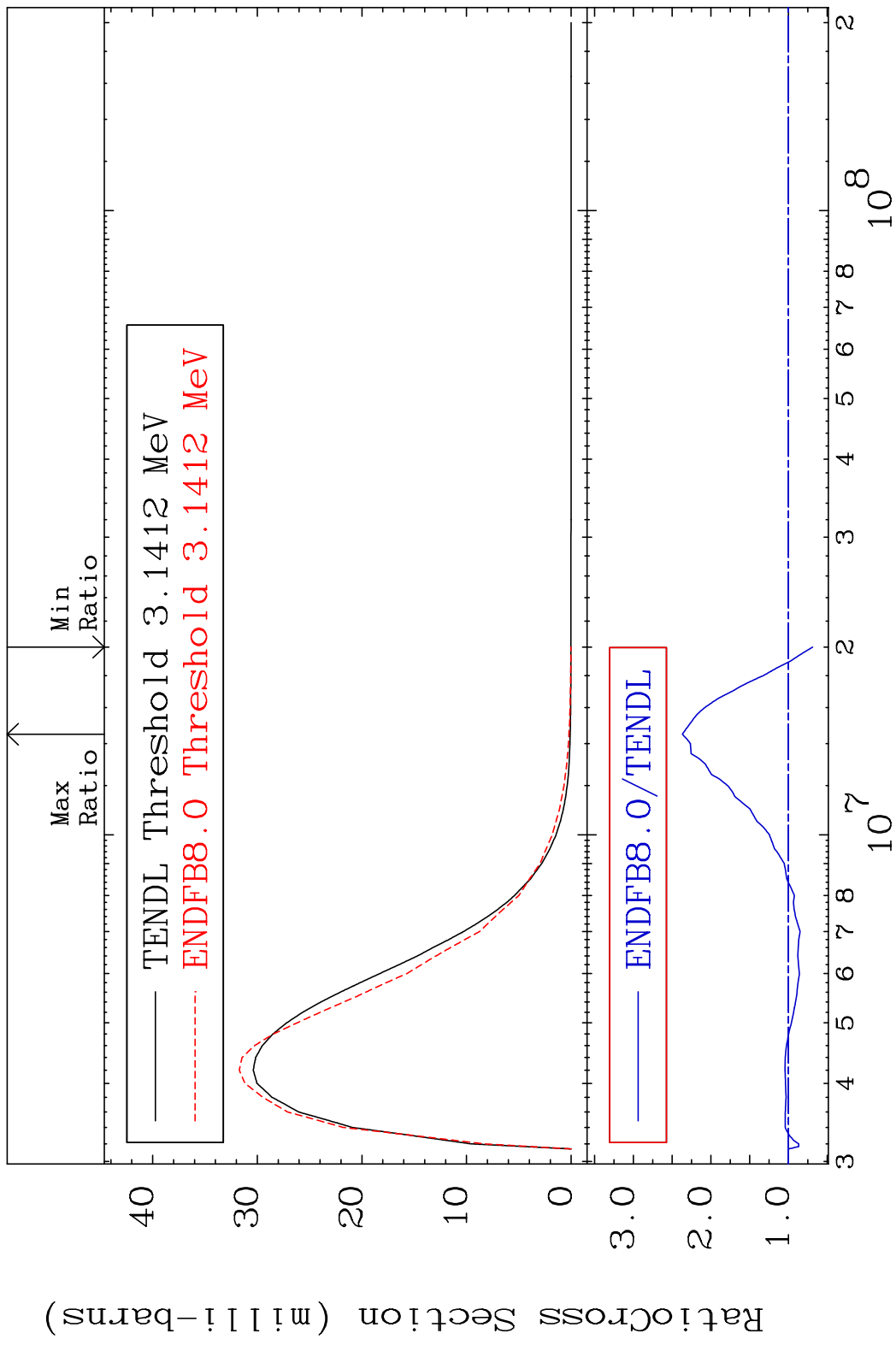


18

Incident Energy (eV)

18-Ar-39

MAT 1834 MT= 65 (n, n') Level 18-Ar-39  
 Cross Section -31.06 To 136.9 %

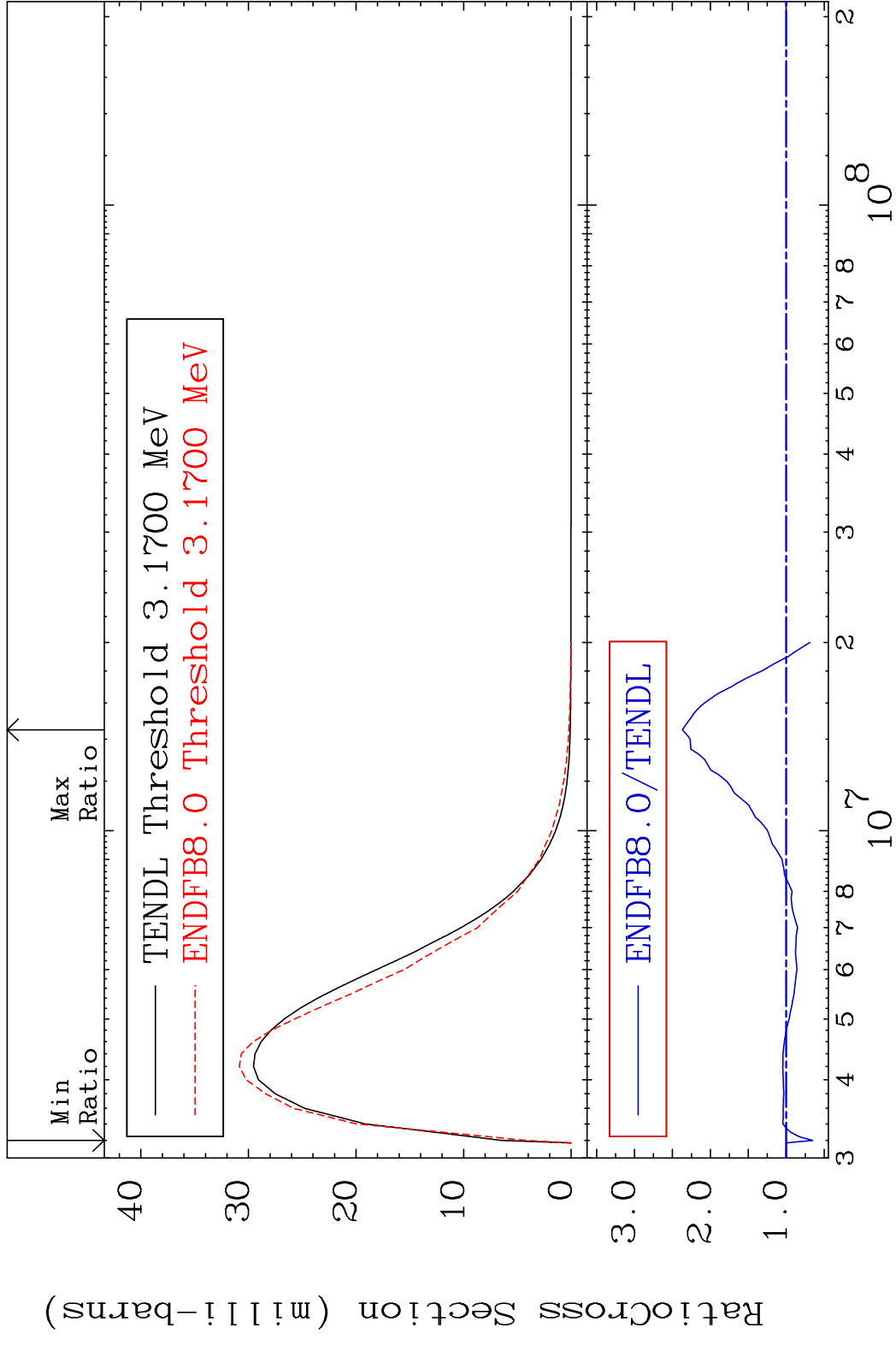


MAT 1834

MT= 66 (n,n') Level

18-Ar-39

Cross Section -34.71 To 137.0 %



20

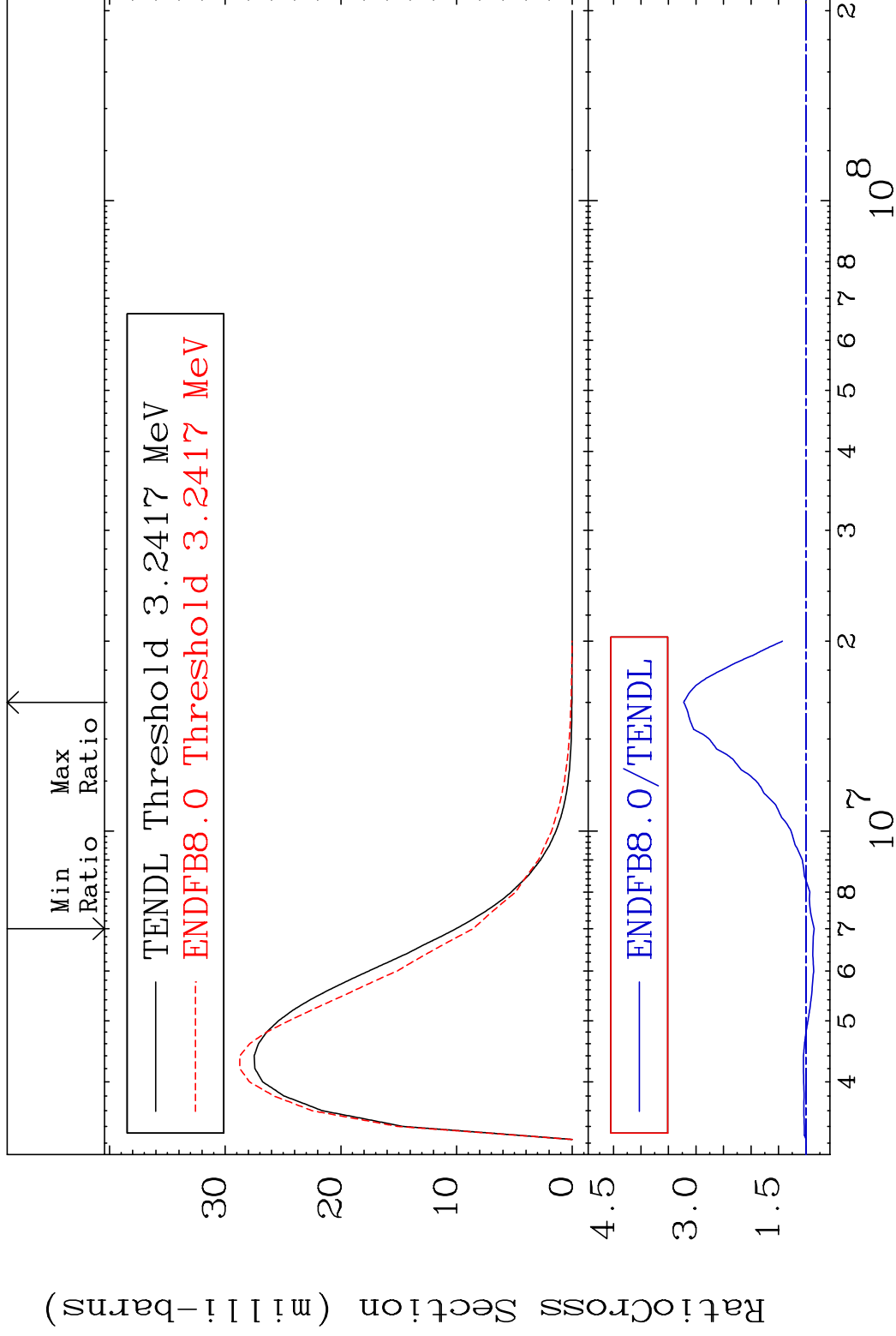
18-Ar-39

MAT 1834

MT= 67 (n,n') Level

18-Ar-39

Cross Section -14.71 To 222.4 %

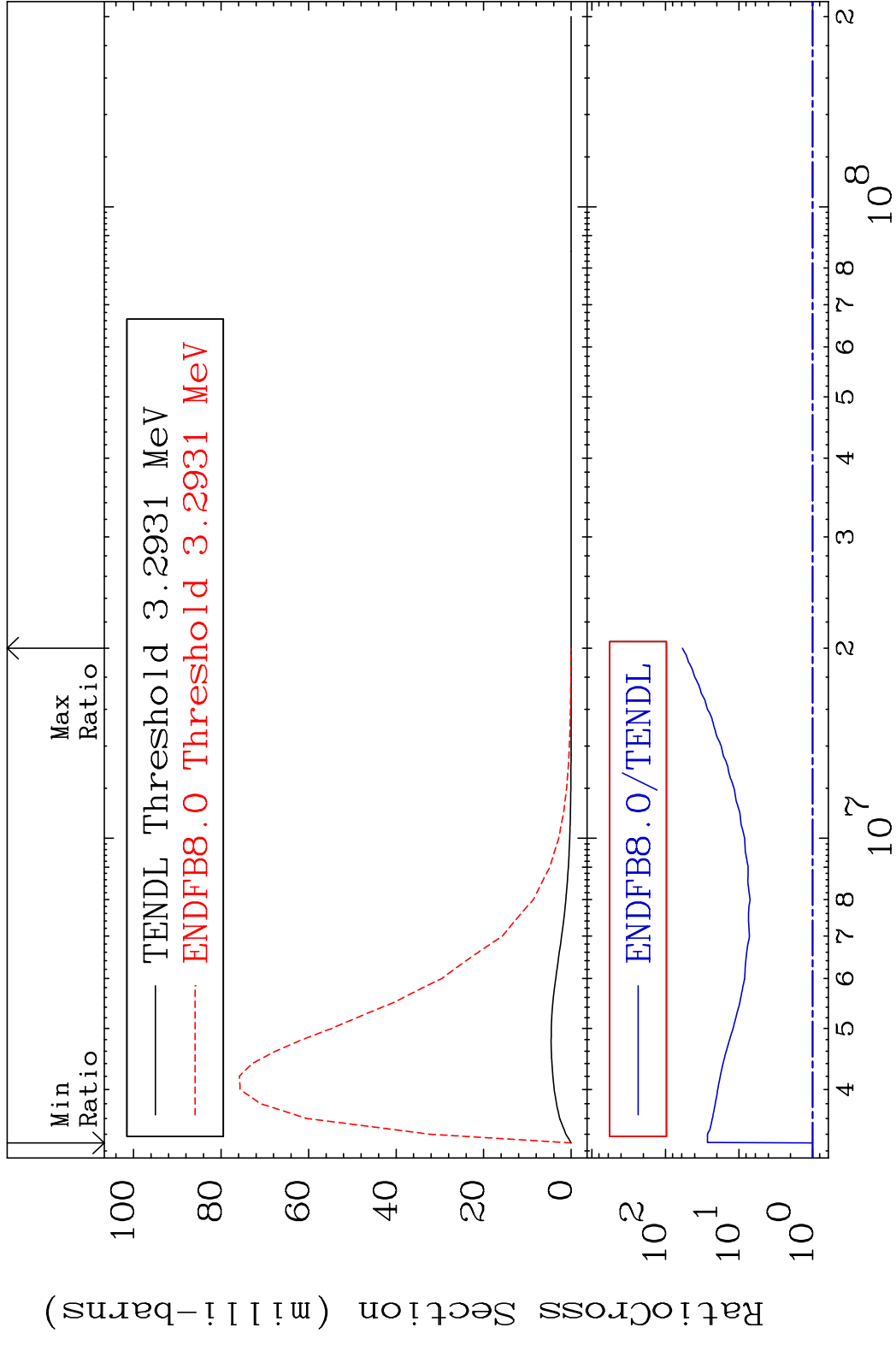


21

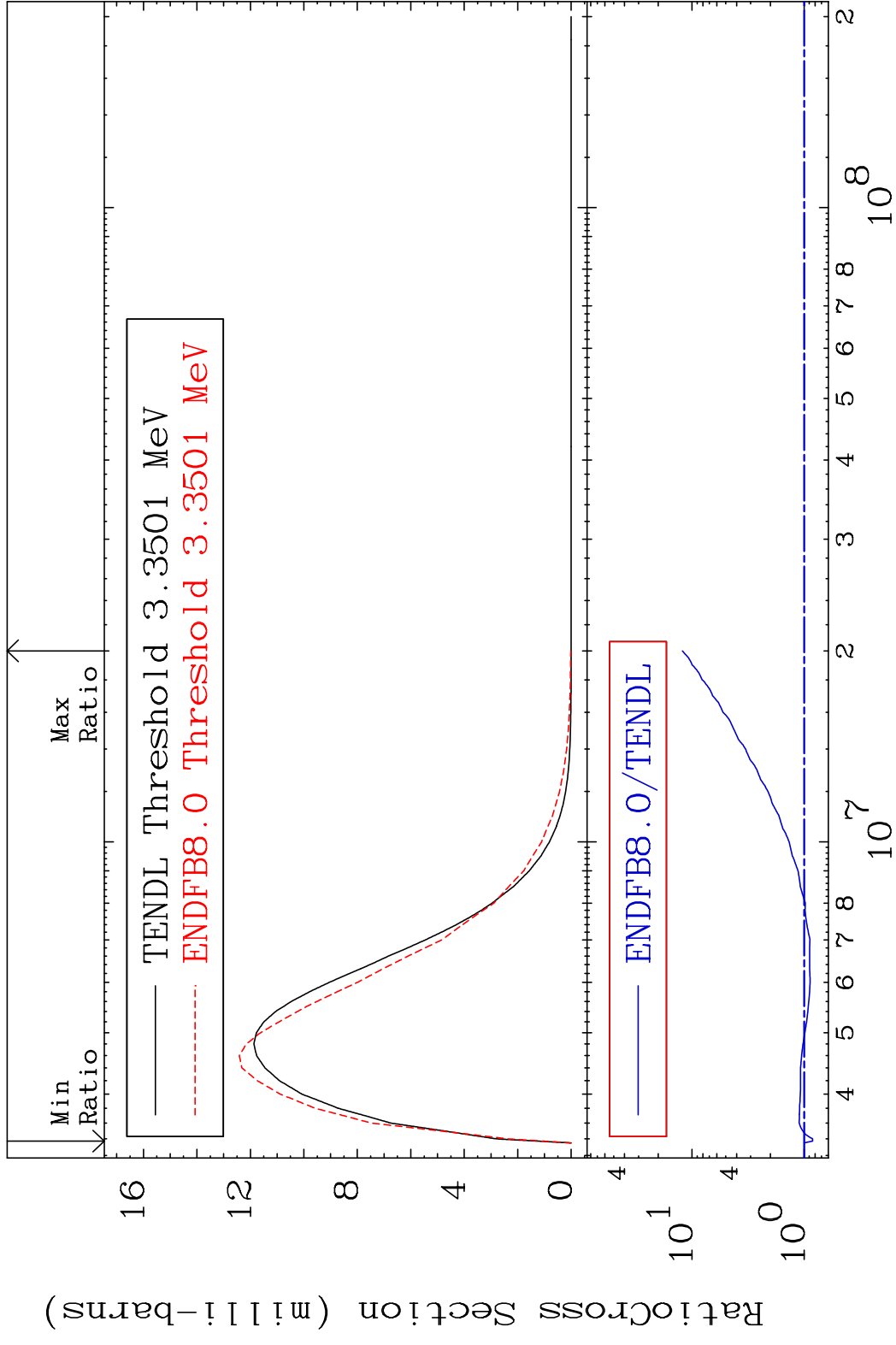
Incident Energy (eV)

18-Ar-39

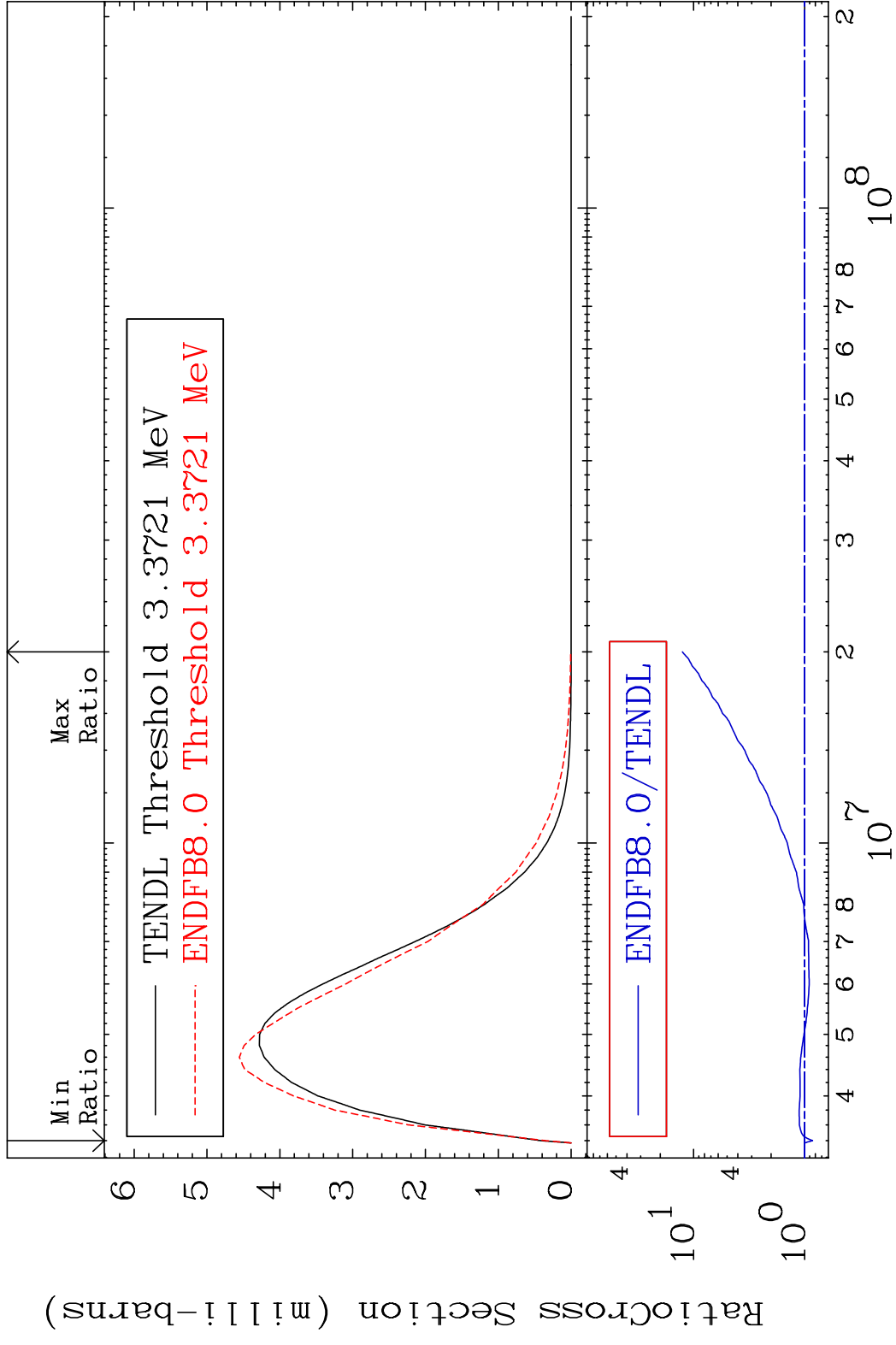
MAT 1834 MT= 68 (n, n') Level 18-Ar-39  
 Cross Section 0.000 To 5790. %



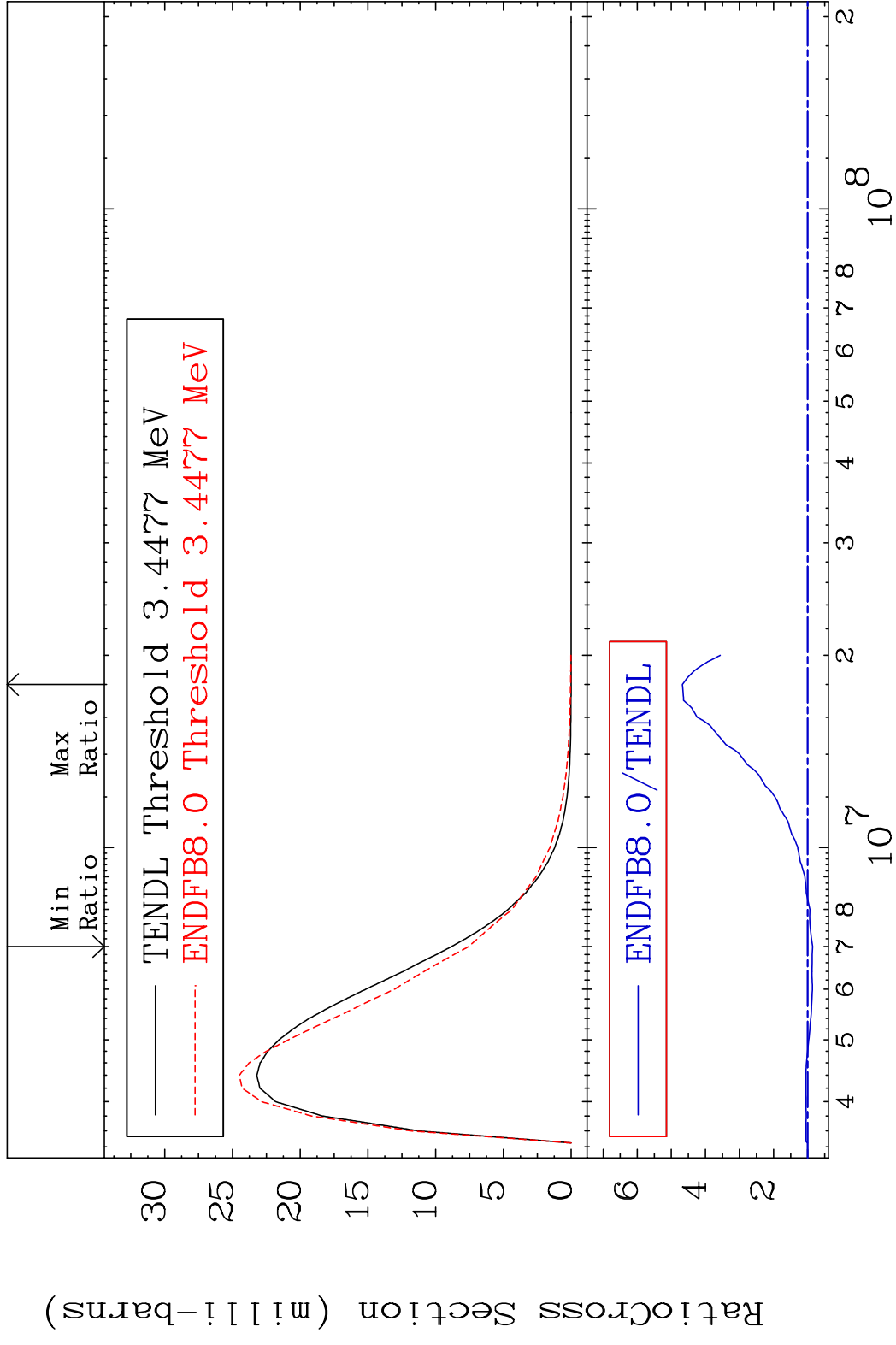
MAT 1834 MT= 69 (n, n') Level 18-Ar-39  
 Cross Section -15.85 To 1119. %



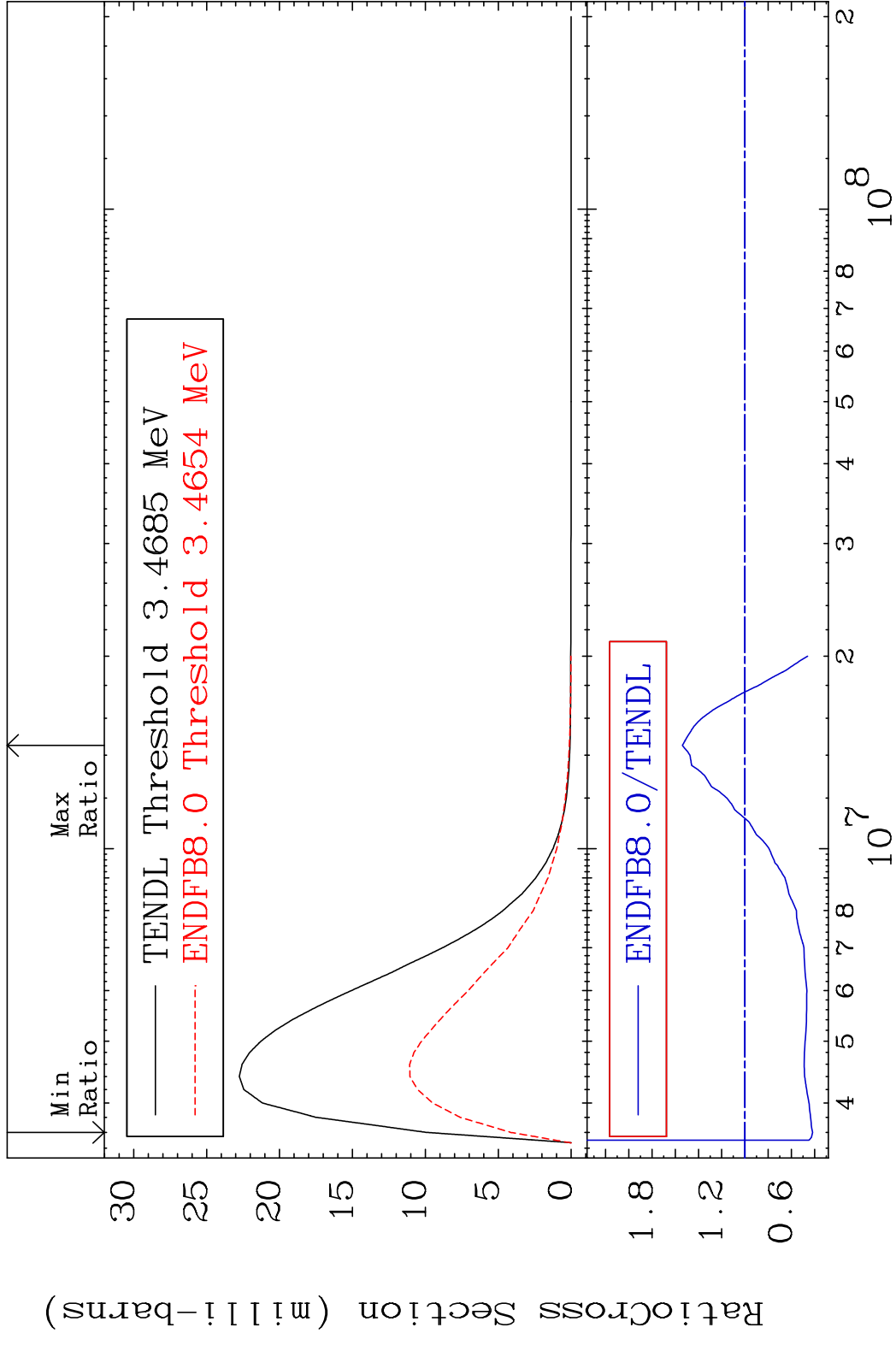
MAT 1834 MT= 70 (n,n') Level 18-Ar-39  
 Cross Section -15.30 To 1164. %



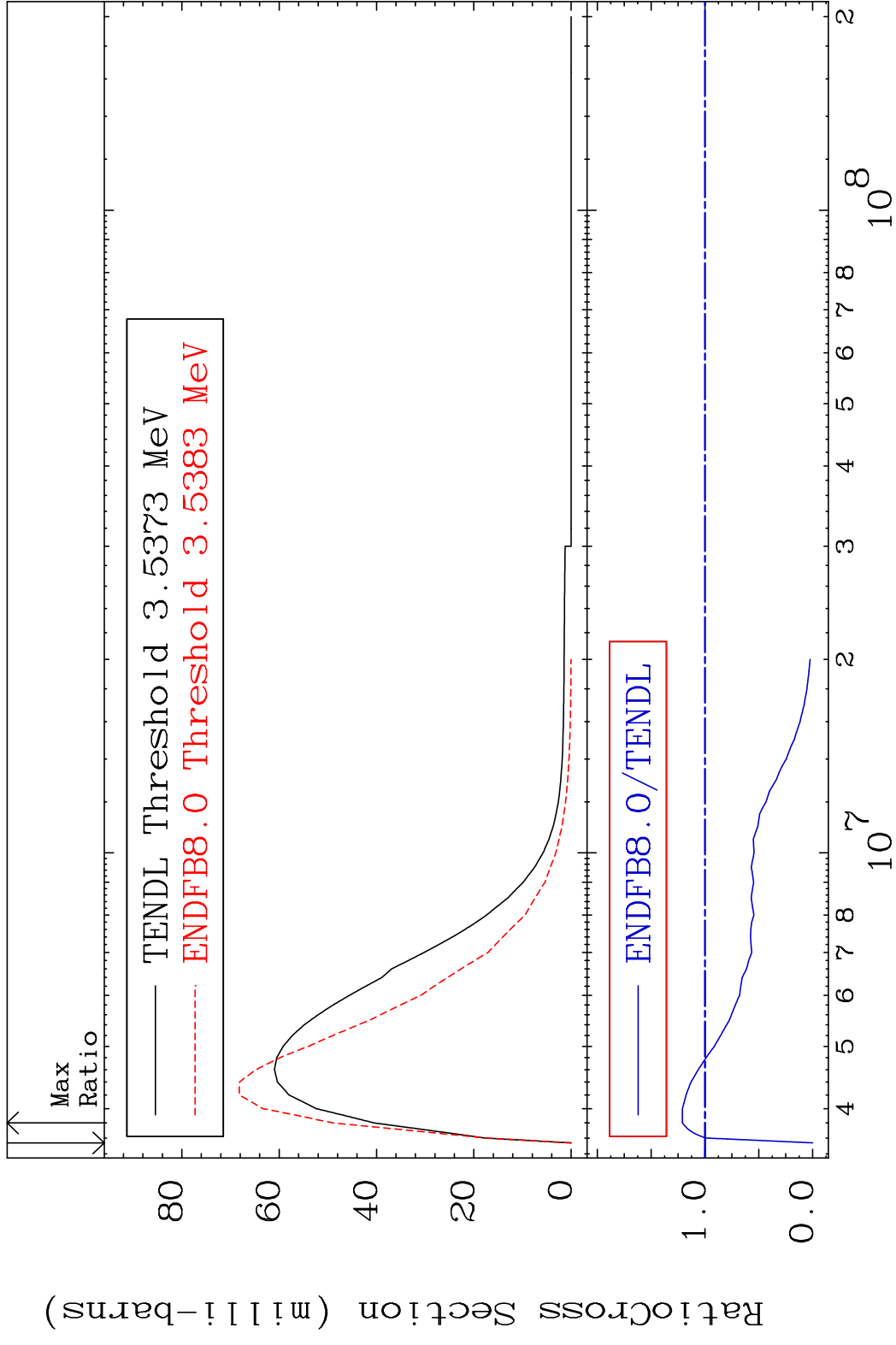
MAT 1834 MT= 71 (n, n') Level 18-Ar-39  
 Cross Section -14.38 To 367.6 %



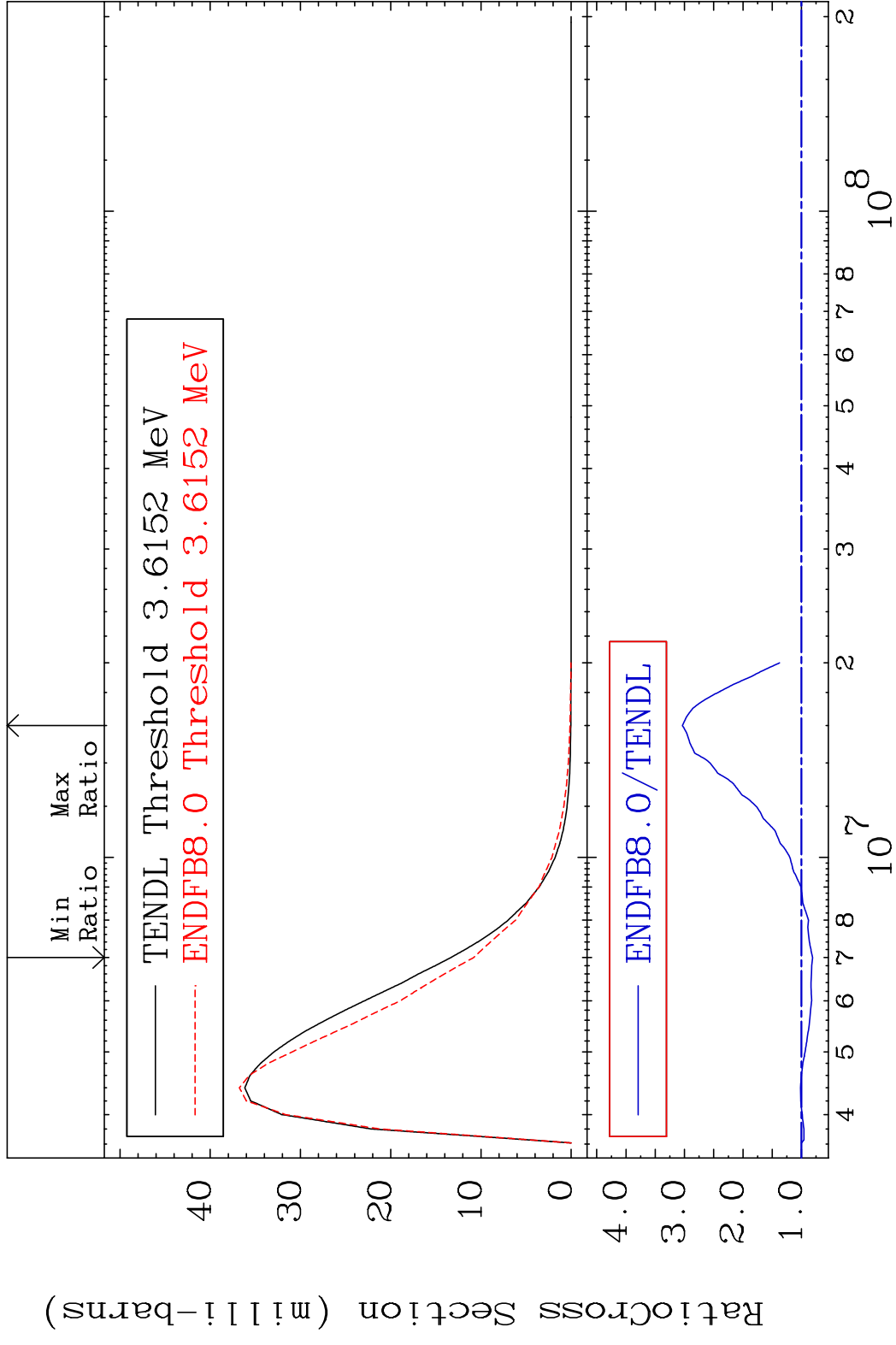
MAT 1834 MT= 72 (n,n') Level 18-Ar-39  
 Cross Section -58.17 To 53.89 %



MAT 1834 MT= 73 (n, n') Level 18-Ar-39  
 Cross Section -100.0 To 20.96 %



MAT 1834 MT= 74 (n,n') Level 18-Ar-39  
 Cross Section -18.93 To 203.7 %

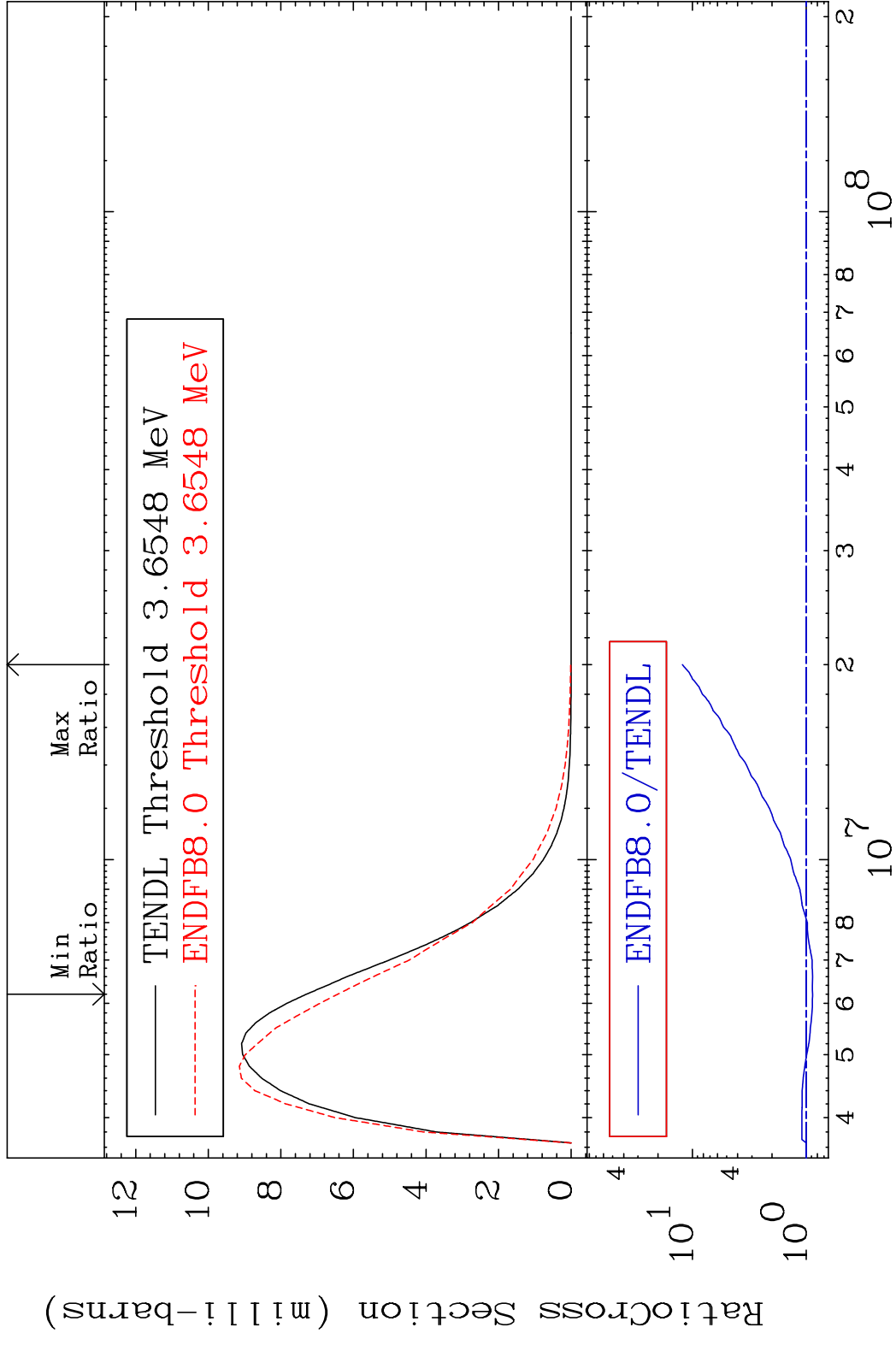


MAT 1834

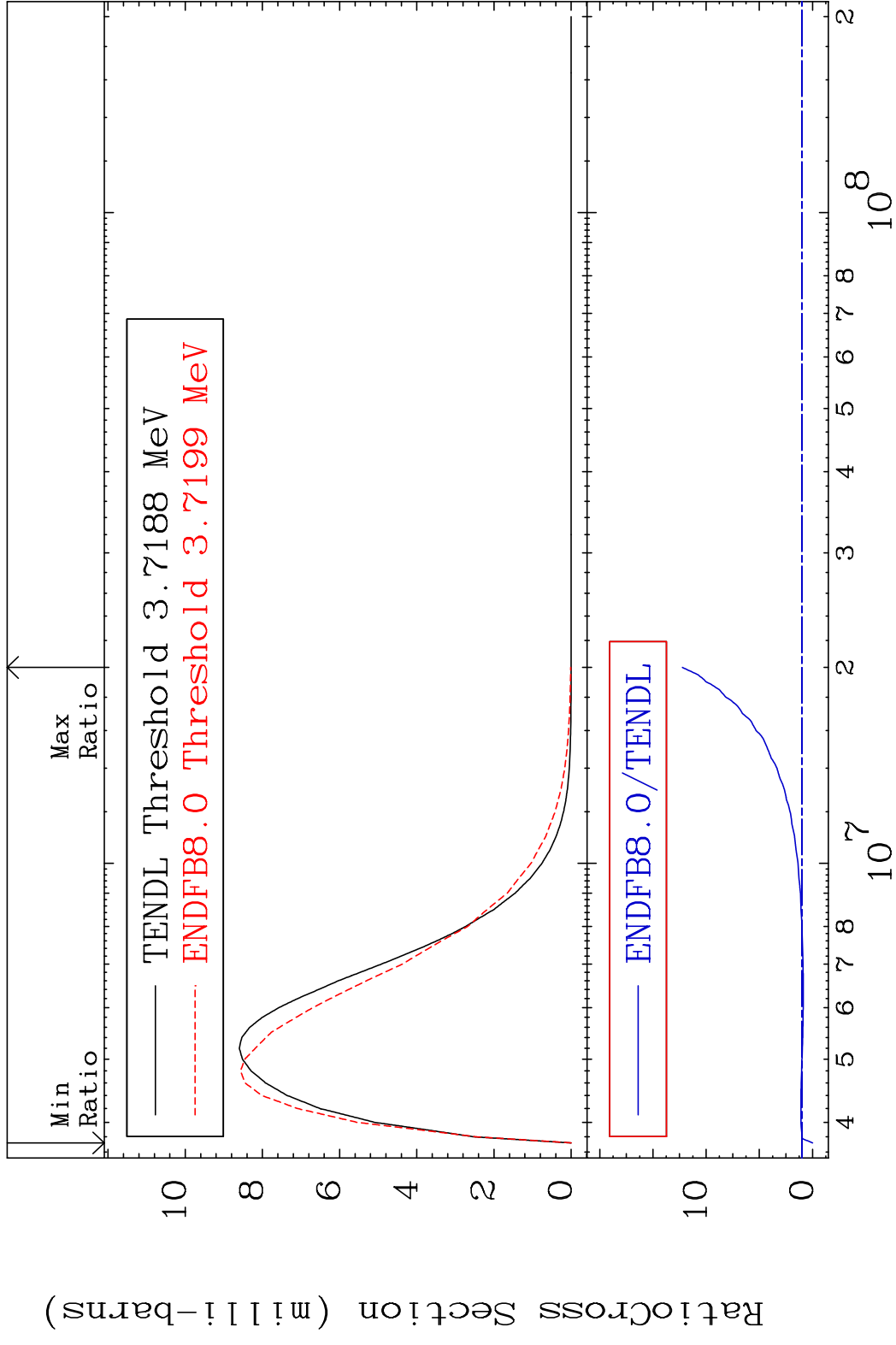
MT= 75 (n,n') Level

18-Ar-39

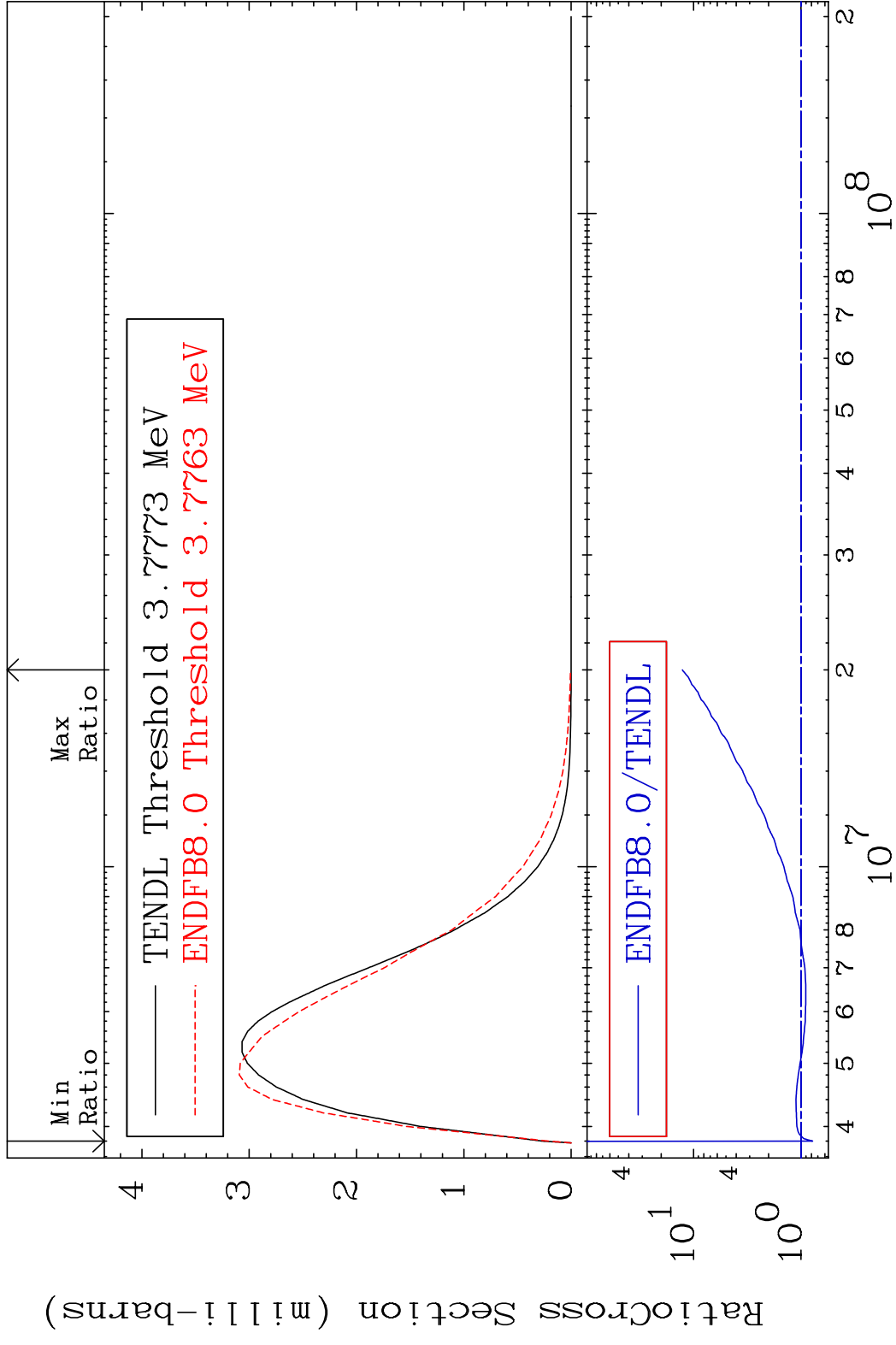
Cross Section -11.82 To 1123. %



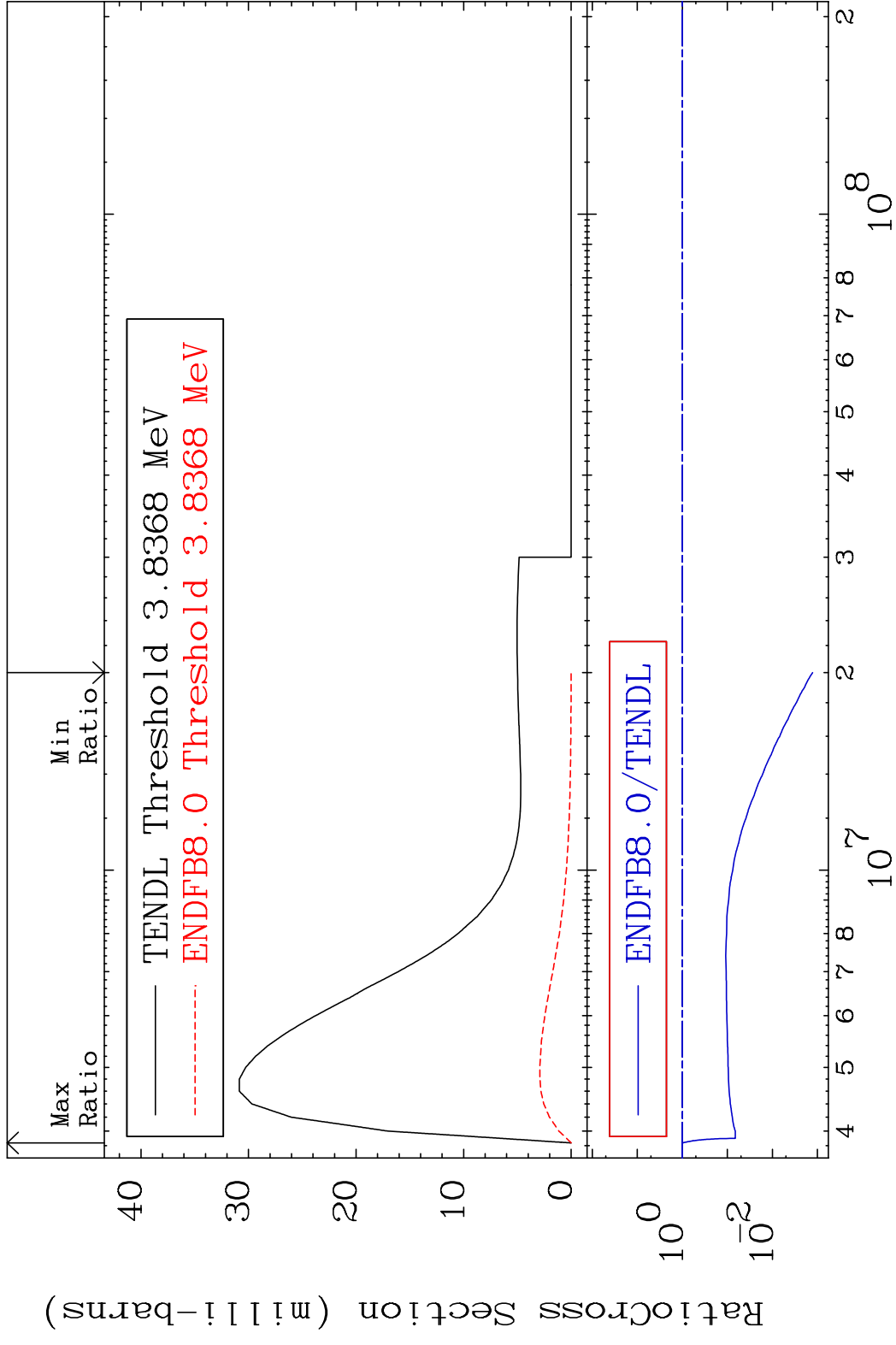
MAT 1834 MT= 76 (n,n') Level 18-Ar-39  
 Cross Section -100.0 To 1124. %



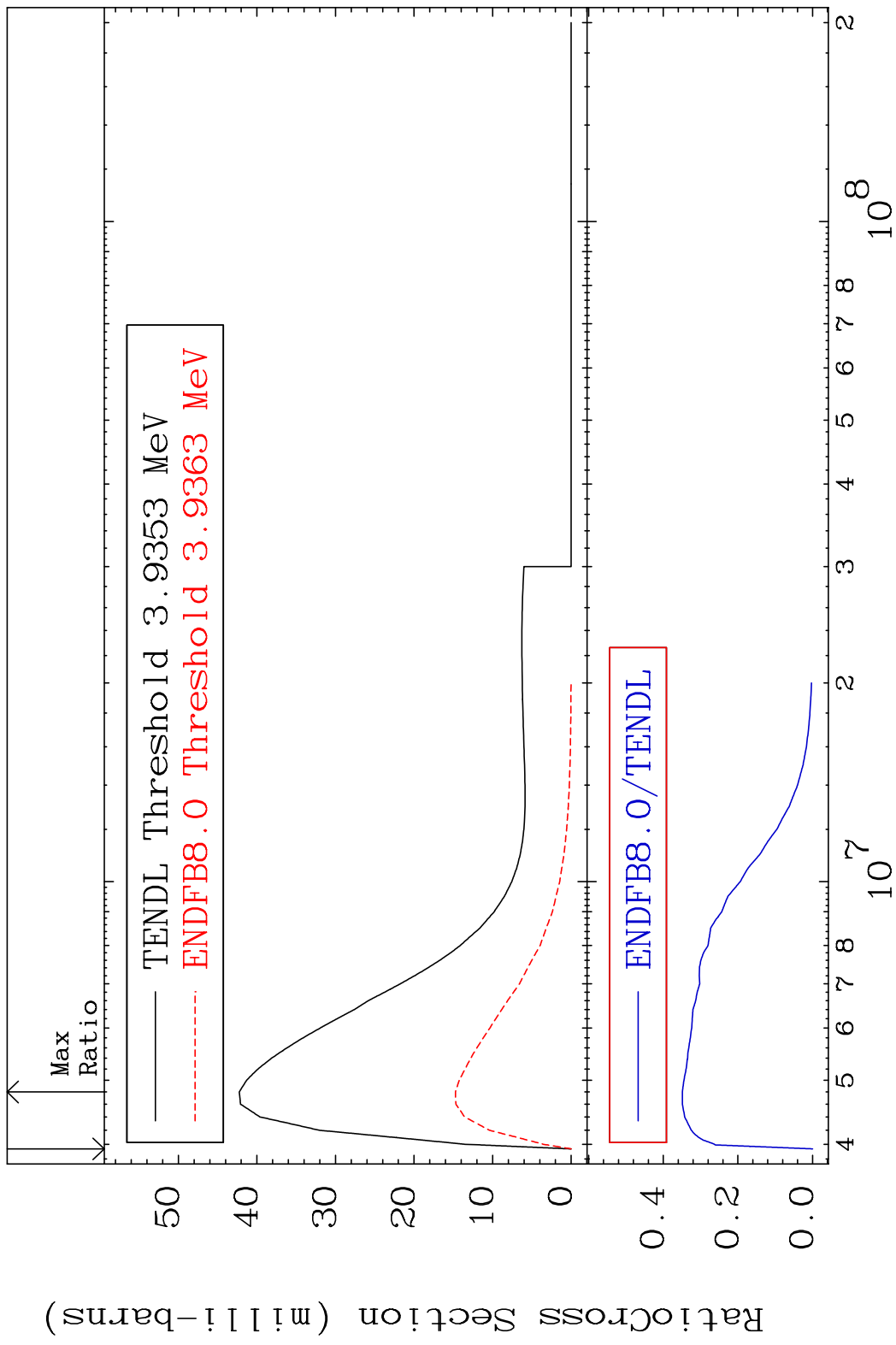
MAT 1834 MT= 77 (n,n') Level 18-Ar-39  
 Cross Section -21.79 To 1169. %



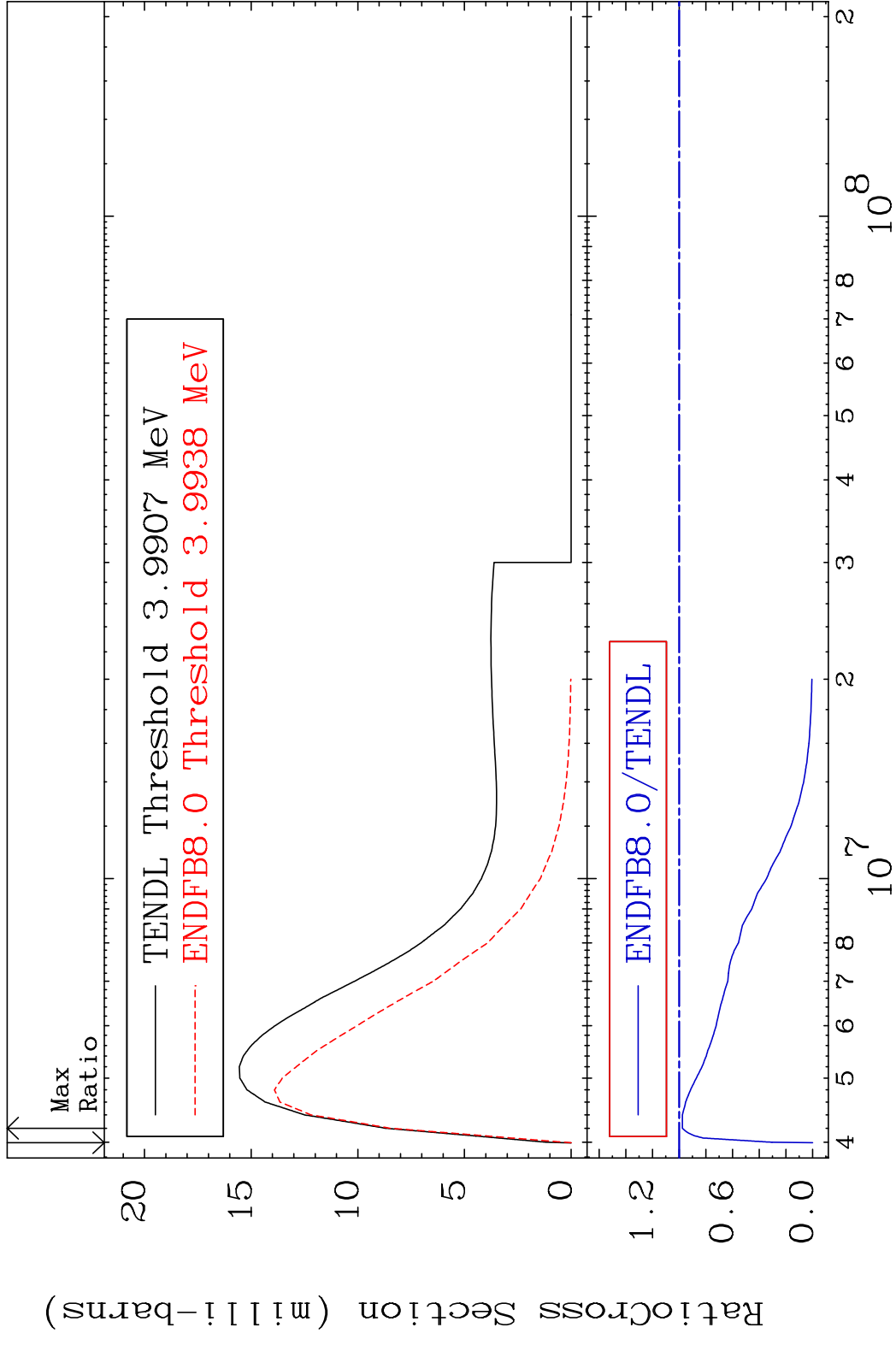
MAT 1834 MT= 78 (n, n') Level 18-Ar-39  
 Cross Section -99.87 To 0.000 %



MAT 1834 MT= 79 (n,n') Level 18-Ar-39  
 Cross Section -100.0 To -65.11%



MAT 1834 MT= 80 (n,n') Level 18-Ar-39  
 Cross Section -100.0 To -2.384%

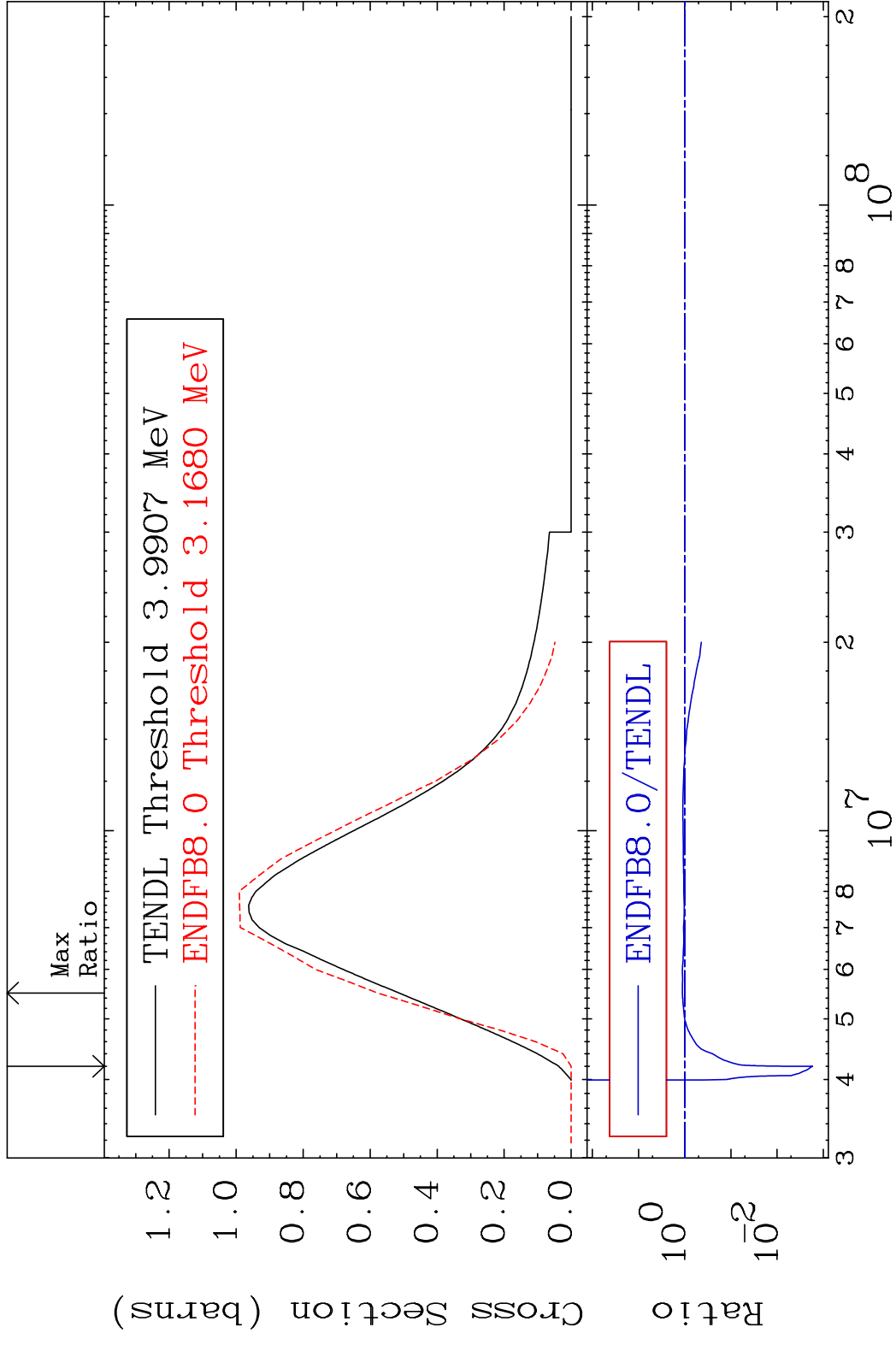


MAT 1834

(n,n') Continuum

18-Ar-39

Cross Section -99.83 To 12.57 %



35

Incident Energy (eV)

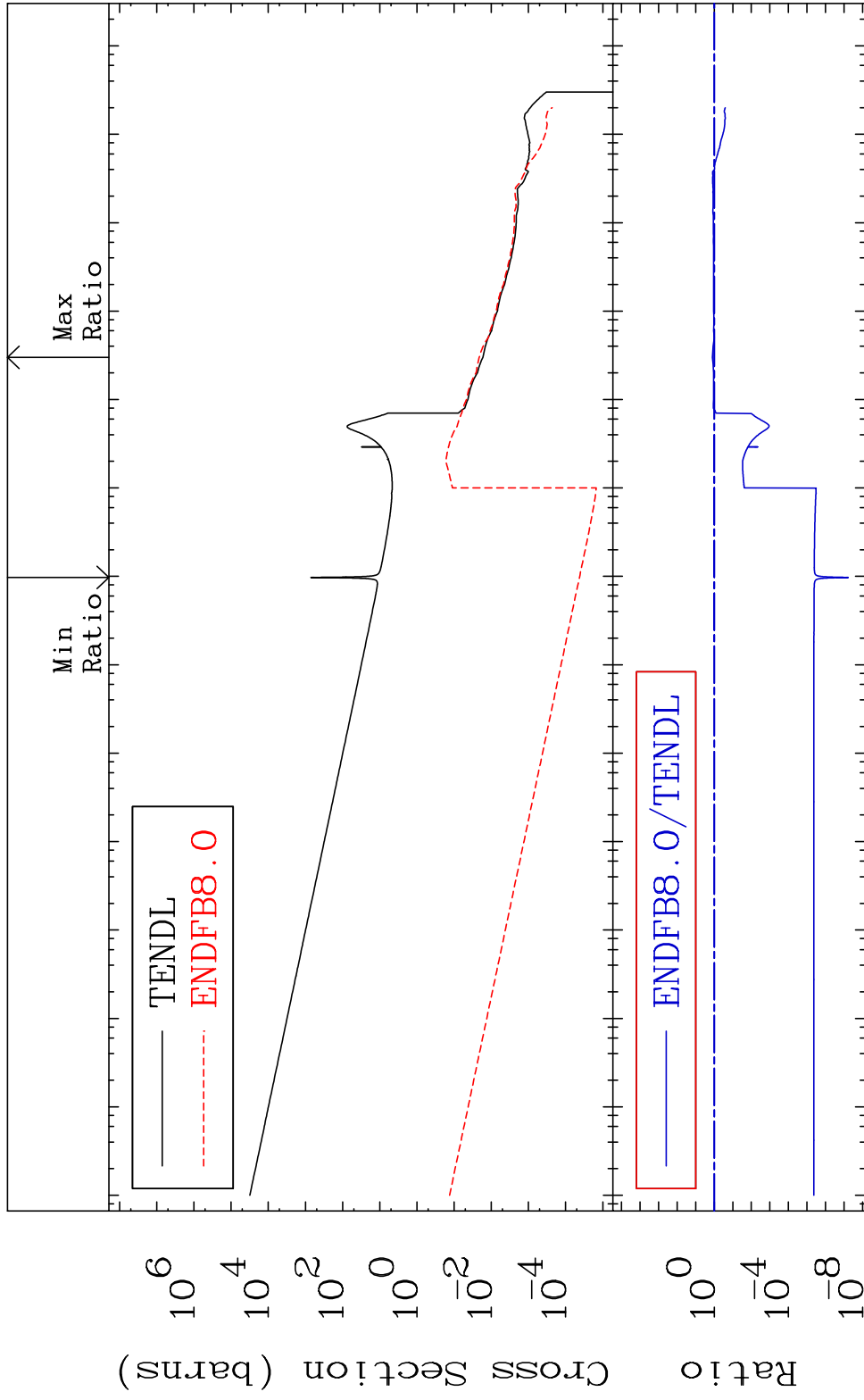
18-Ar-39

MAT 1834

(n,  $\gamma$ )

18-Ar-39

Cross Section -100.0 To 25.88 %

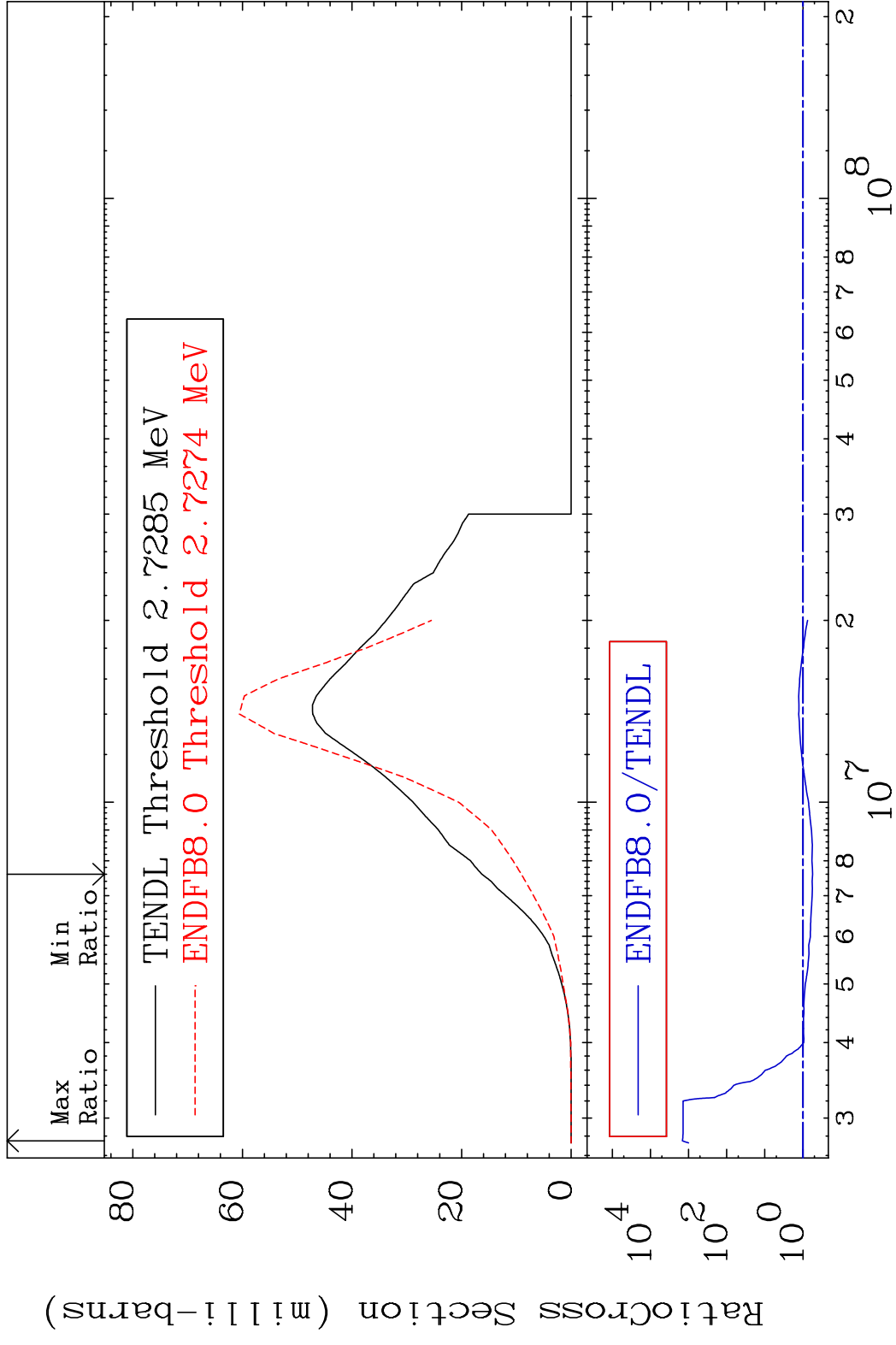


36

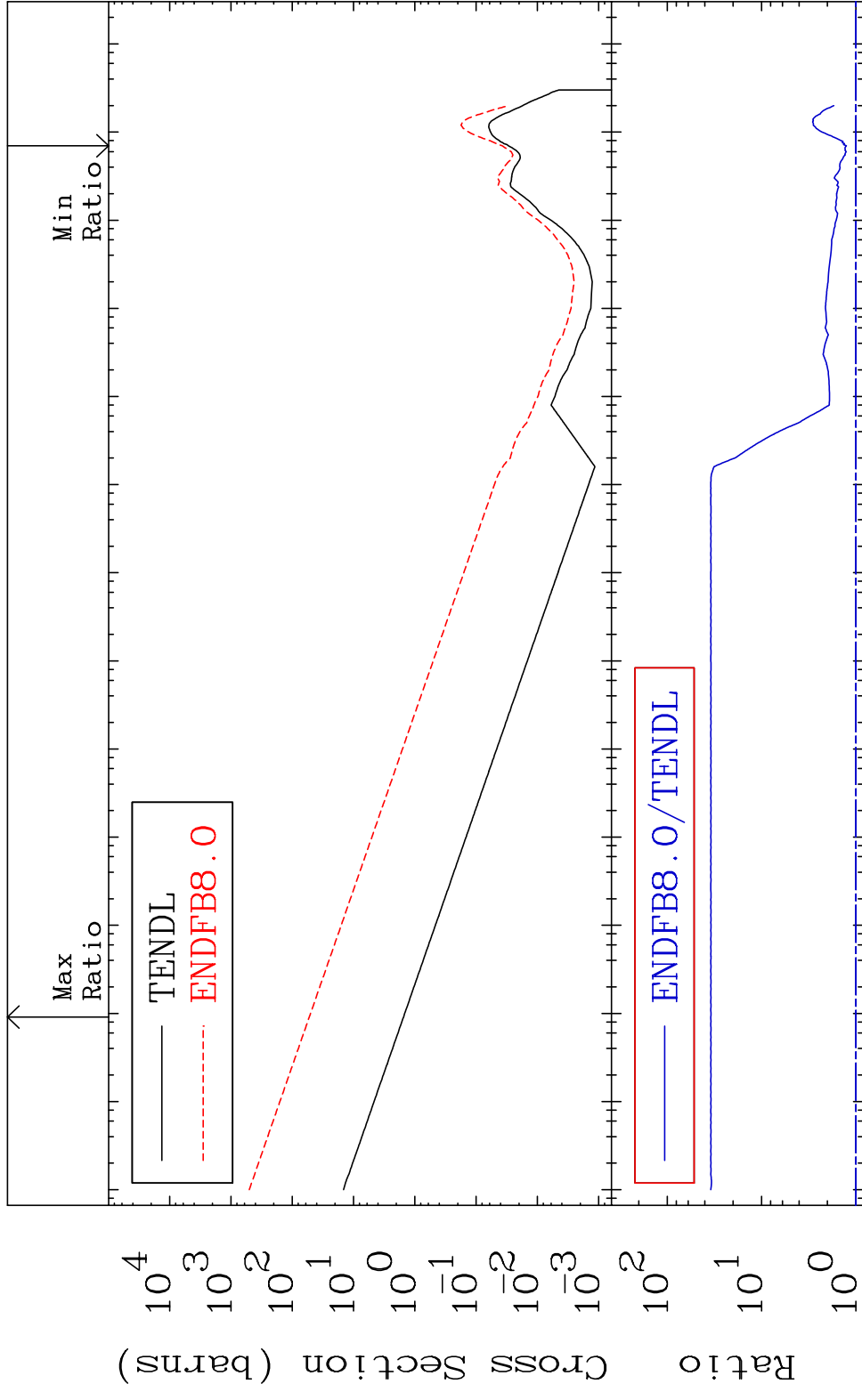
Incident Energy (eV)

18-Ar-39

MAT 1834 (n,p) 18-Ar-39  
 Cross Section -44.12 To 9999. %



MAT 1834 (n,  $\alpha$ ) 18-Ar-39  
 Cross Section 25.96 To 3354. %



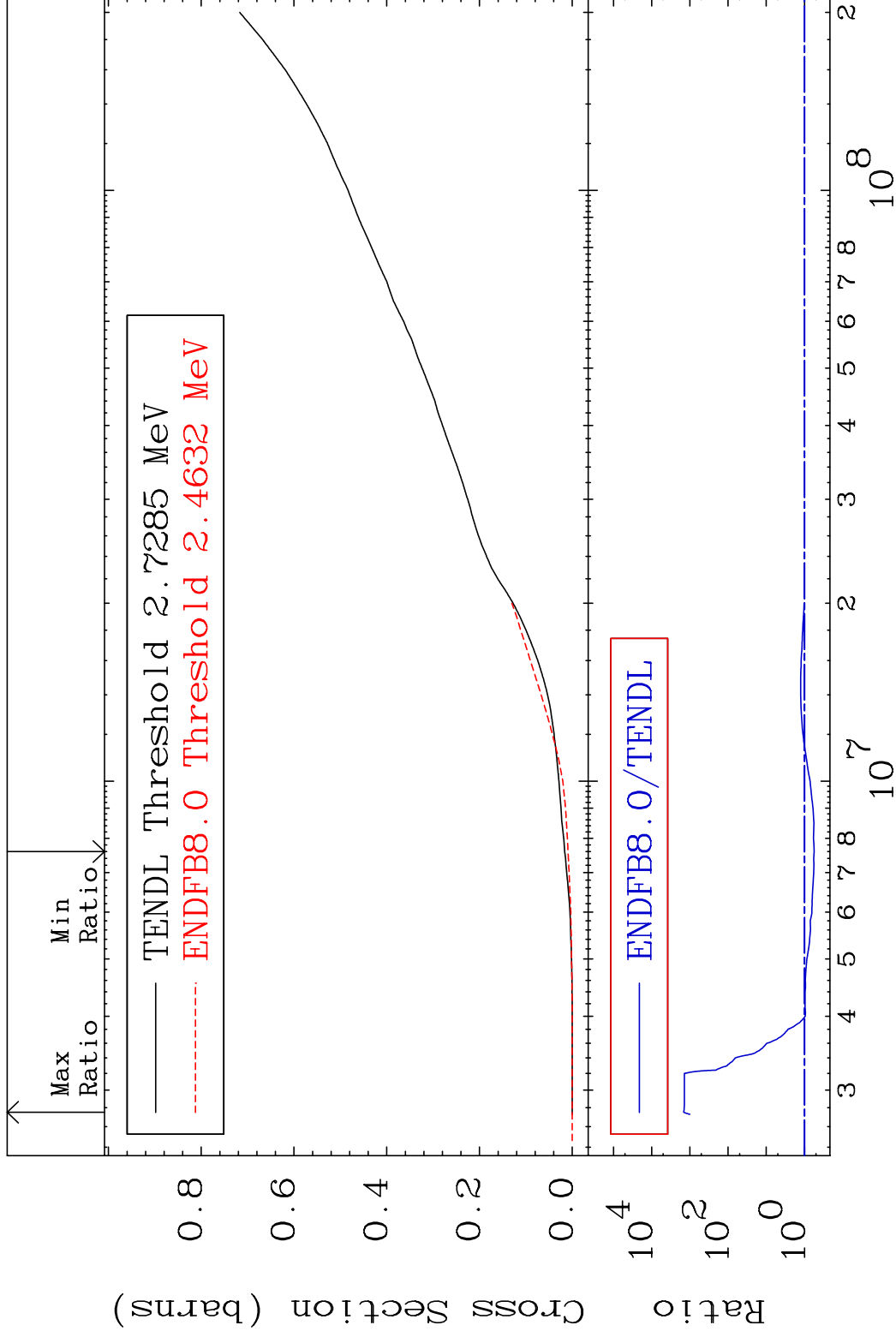
38 Incident Energy (eV) 18-Ar-39

MAT 1834

Hydrogen Production

18-Ar-39

Cross Section -44.12 To 9999. %



39

Incident Energy (eV)

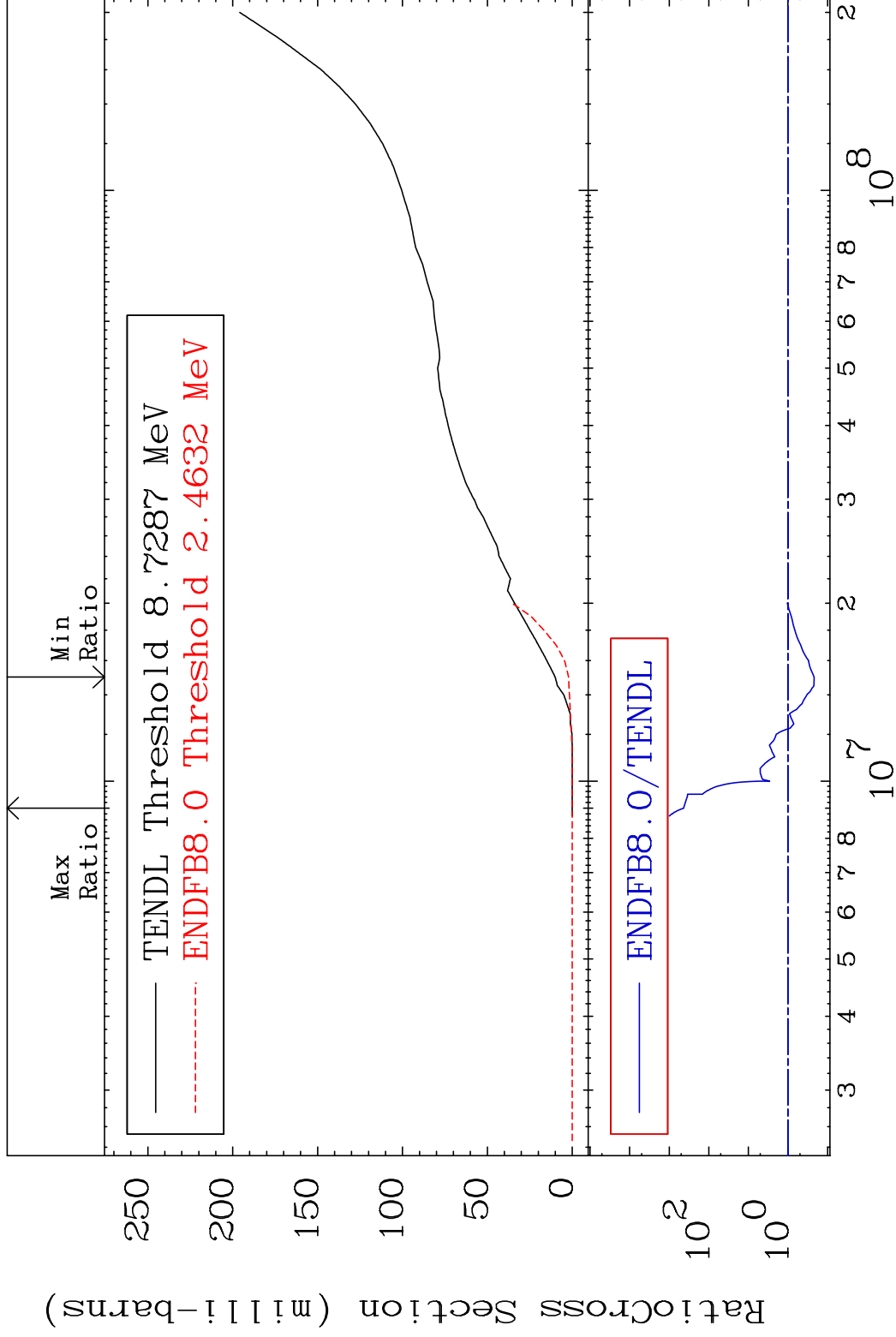
18-Ar-39

MAT 1834

Deuterium Production

18-Ar-39

Cross Section -78.10 To 9999. %



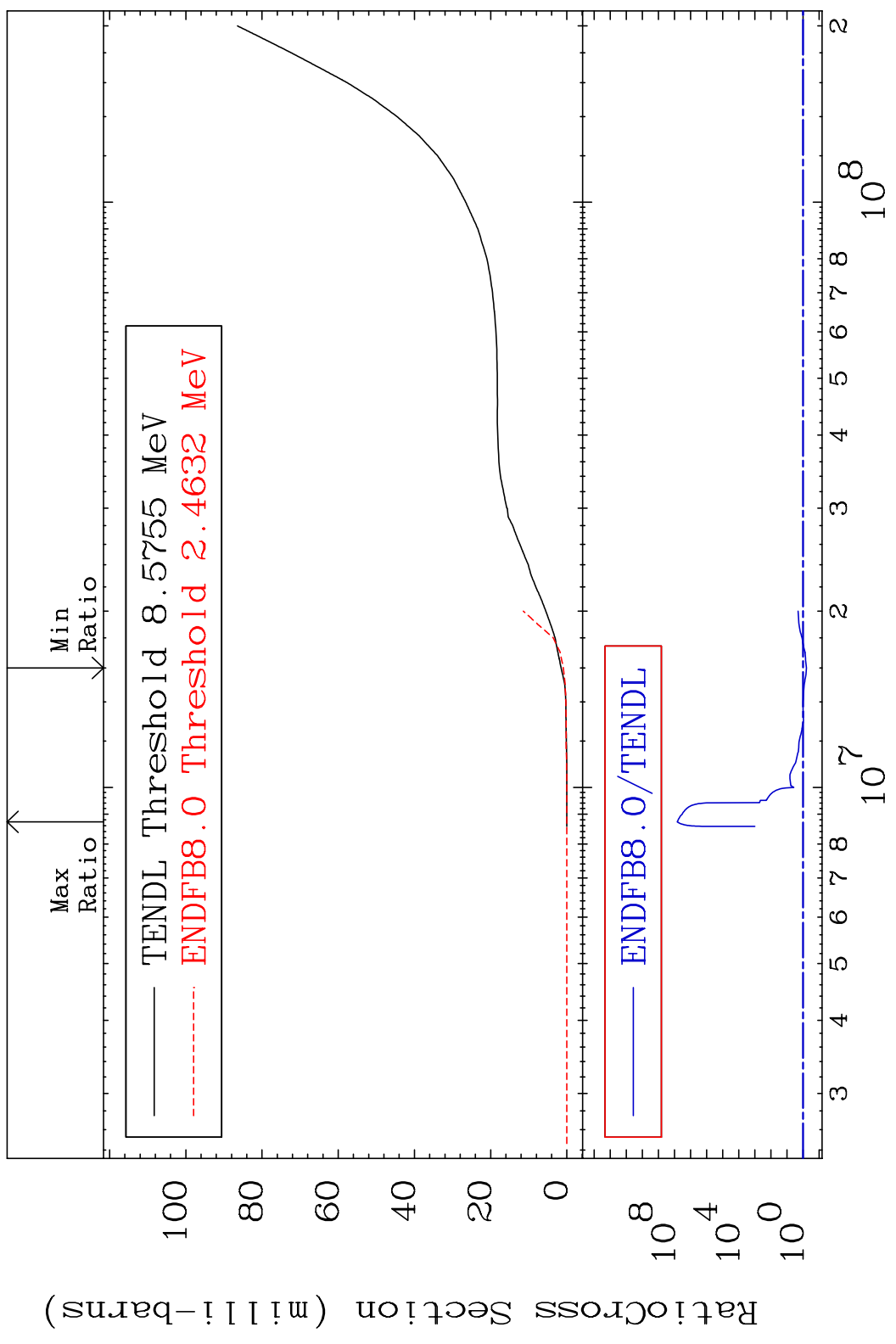
40

Incident Energy (eV)

18-Ar-39

MAT 1834

Tritium Production 18-Ar-39  
Cross Section -37.85 To 9999. %



41

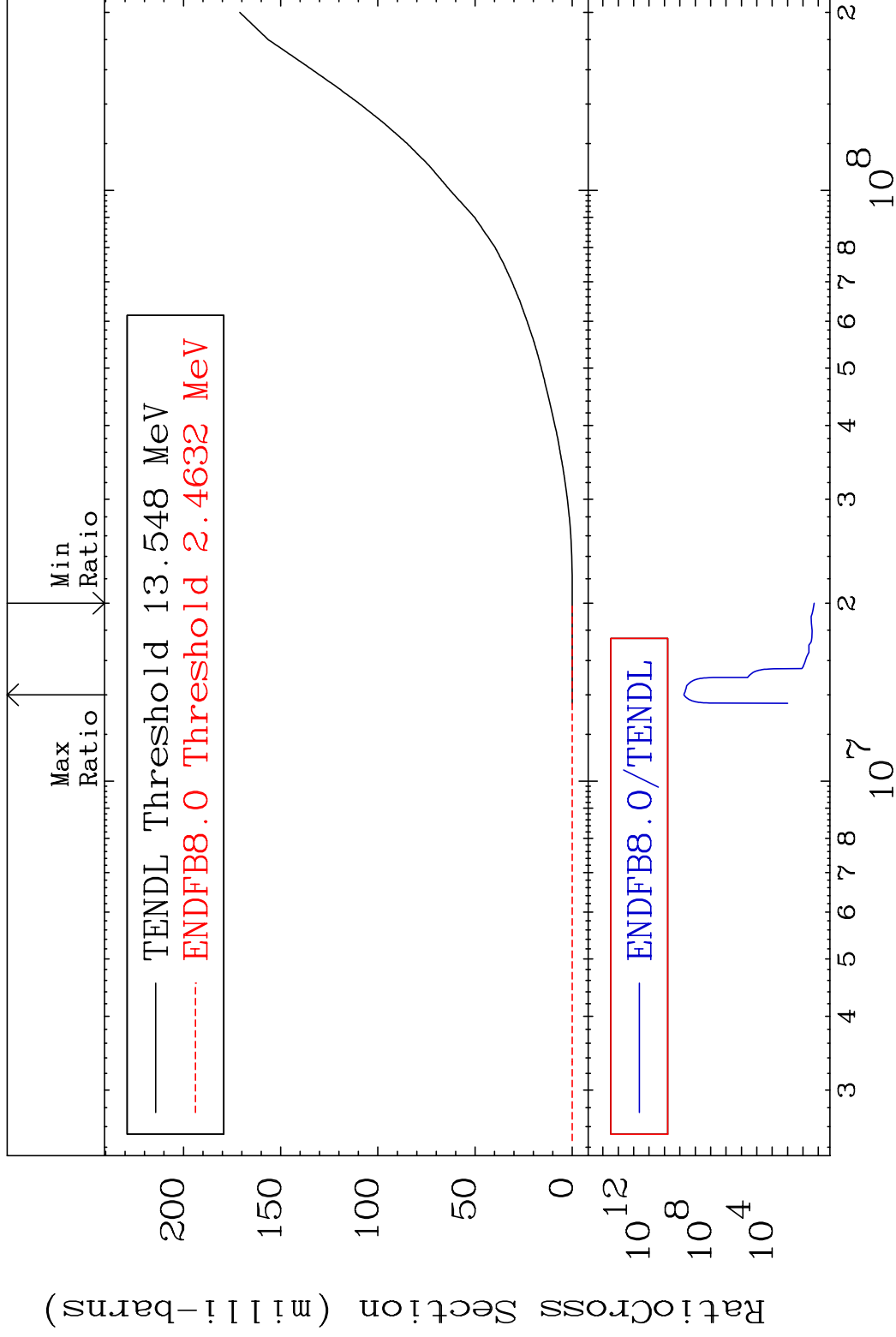
18-Ar-39

MAT 1834

He-3 Production

18-Ar-39

Cross Section 1795. To 9999. %

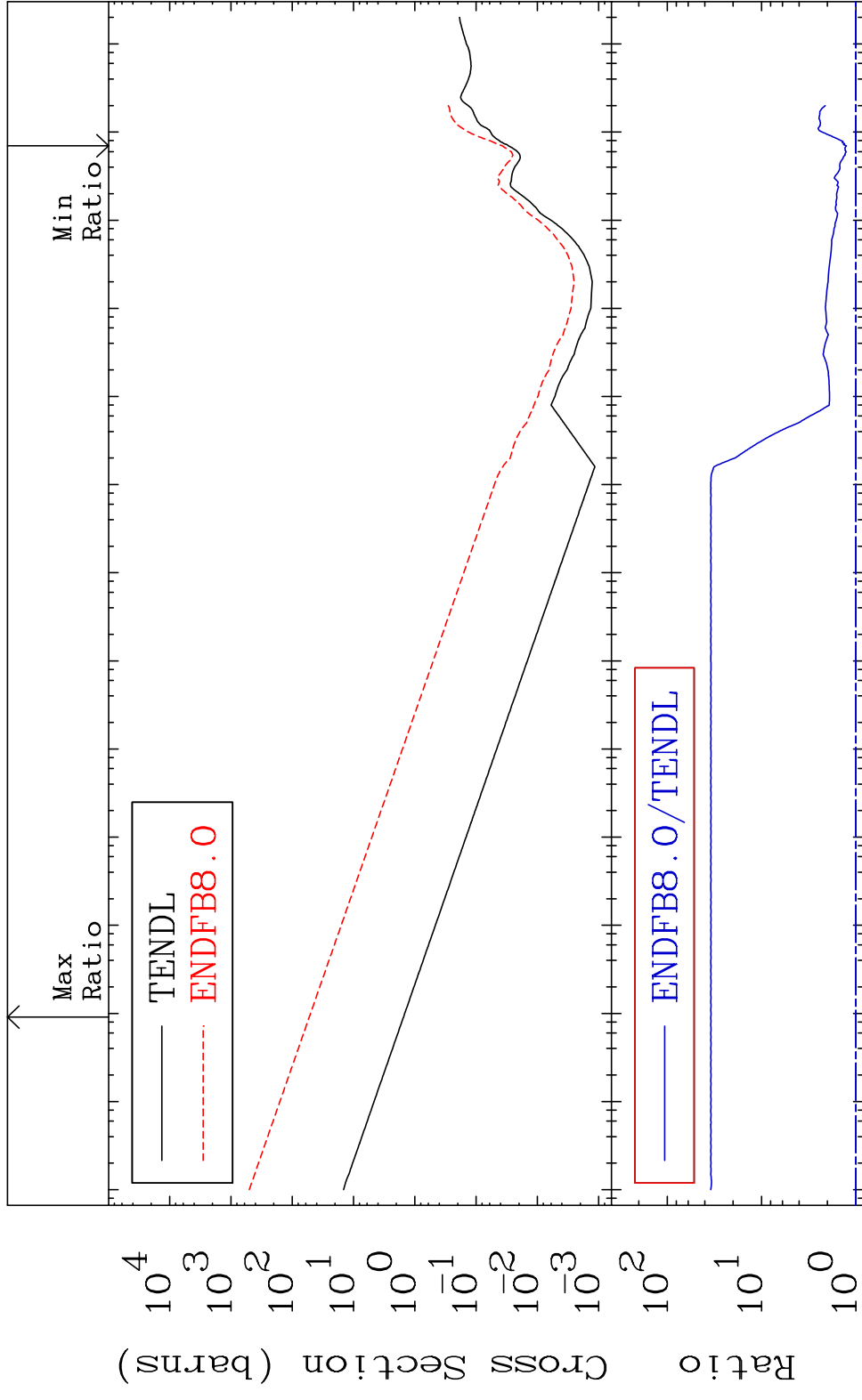


42

Incident Energy (eV)

18-Ar-39

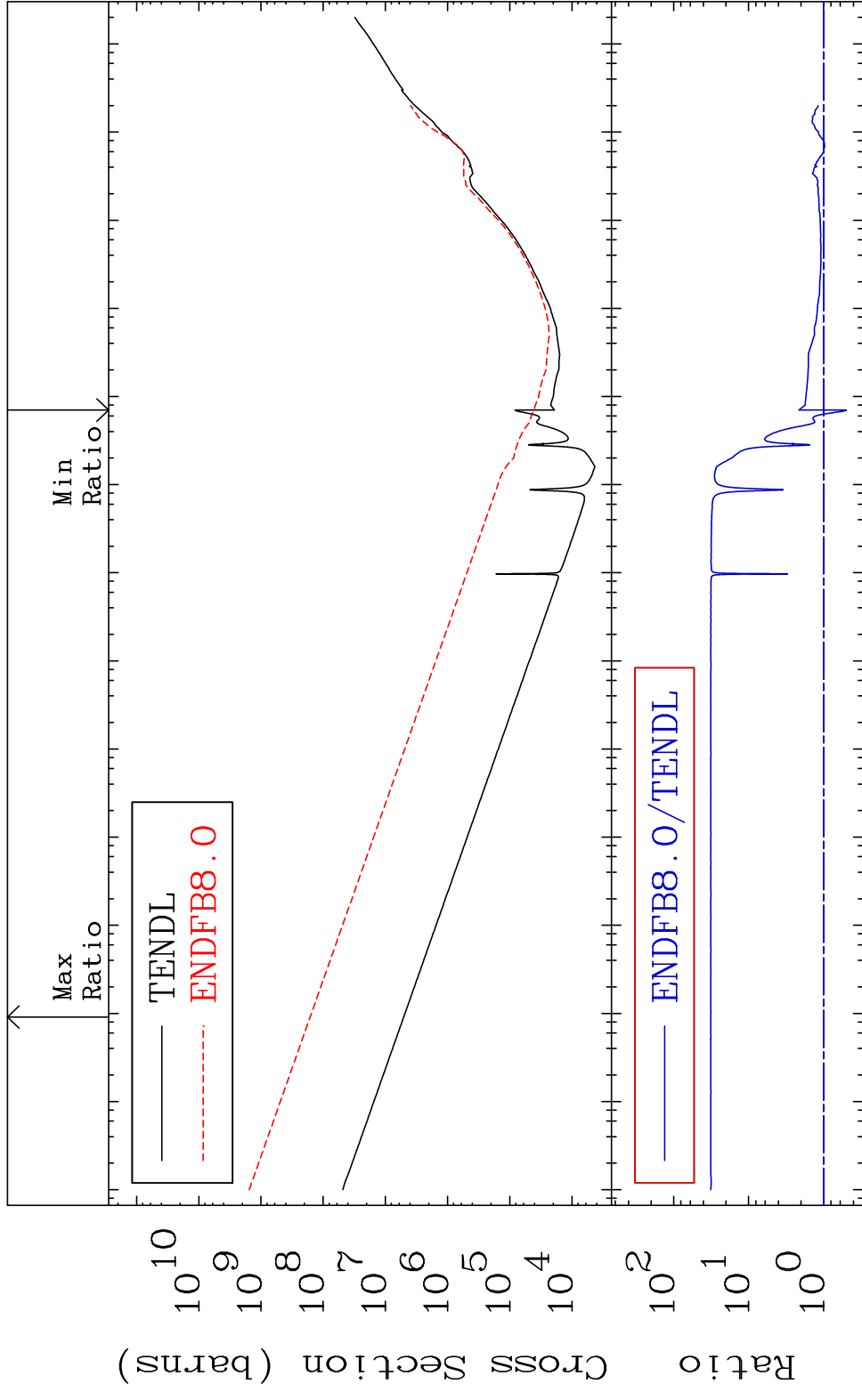
MAT 1834 He-4 Production 18-Ar-39  
 Cross Section 25.96 To 3354. %



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>

43 Incident Energy (eV) 18-Ar-39

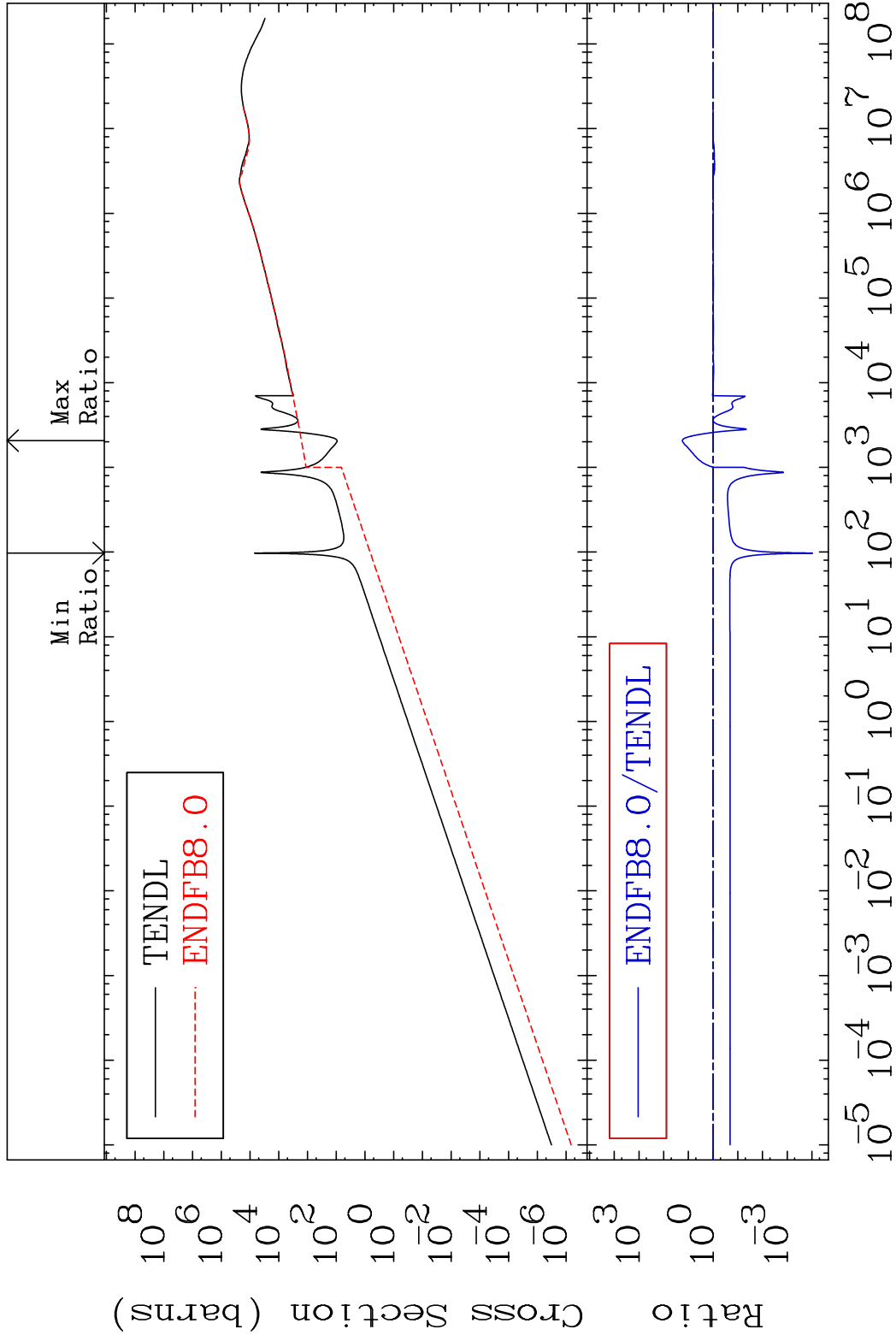
MAT 1834 Kerma total (eV-barns) 18-Ar-39  
 Cross Section -50.24 To 3102. %



44 Incident Energy (eV) 18-Ar-39

MAT 1834

Kerma elastic Cross Section -99.99 To 1655. %  
18-Ar-39

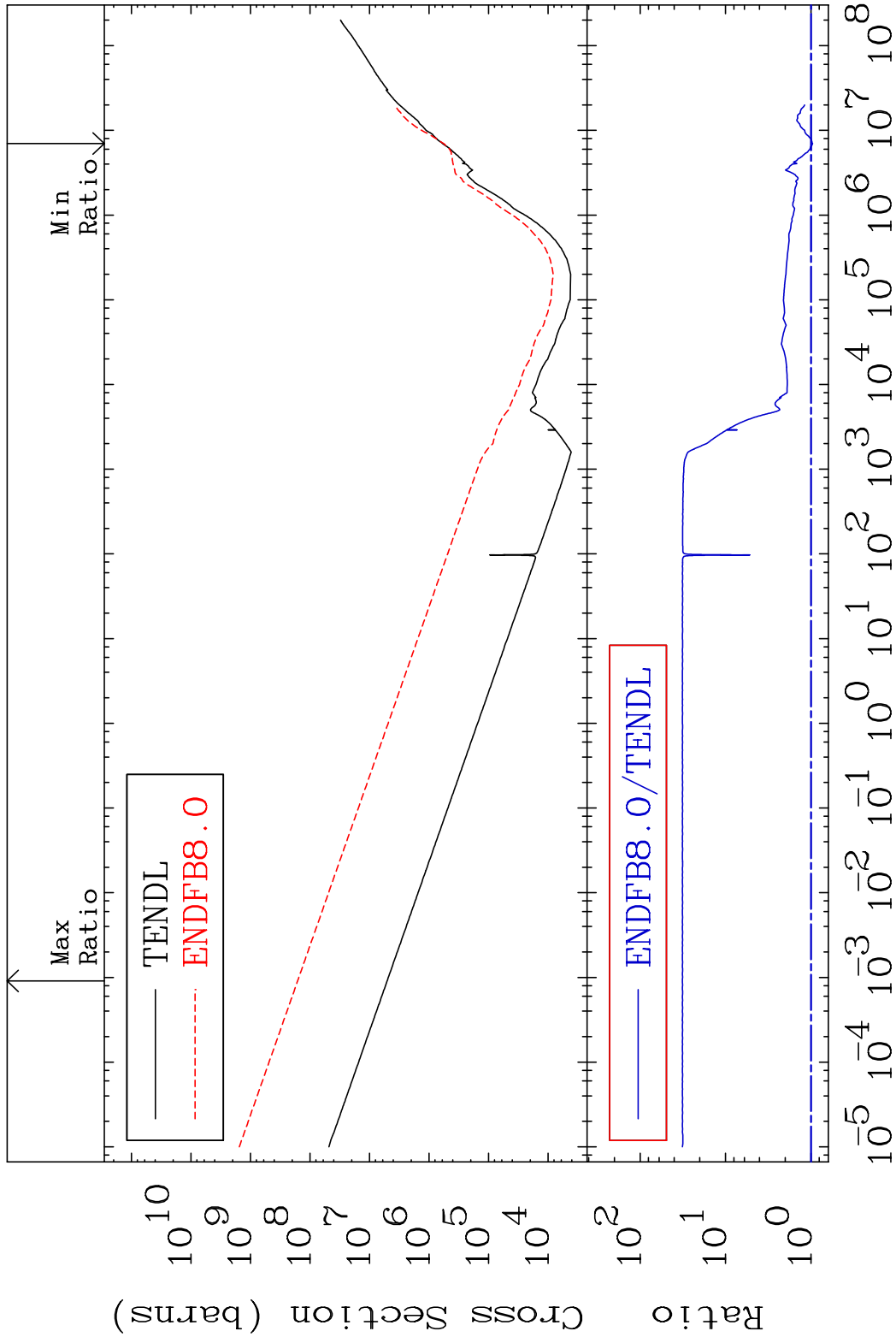


45

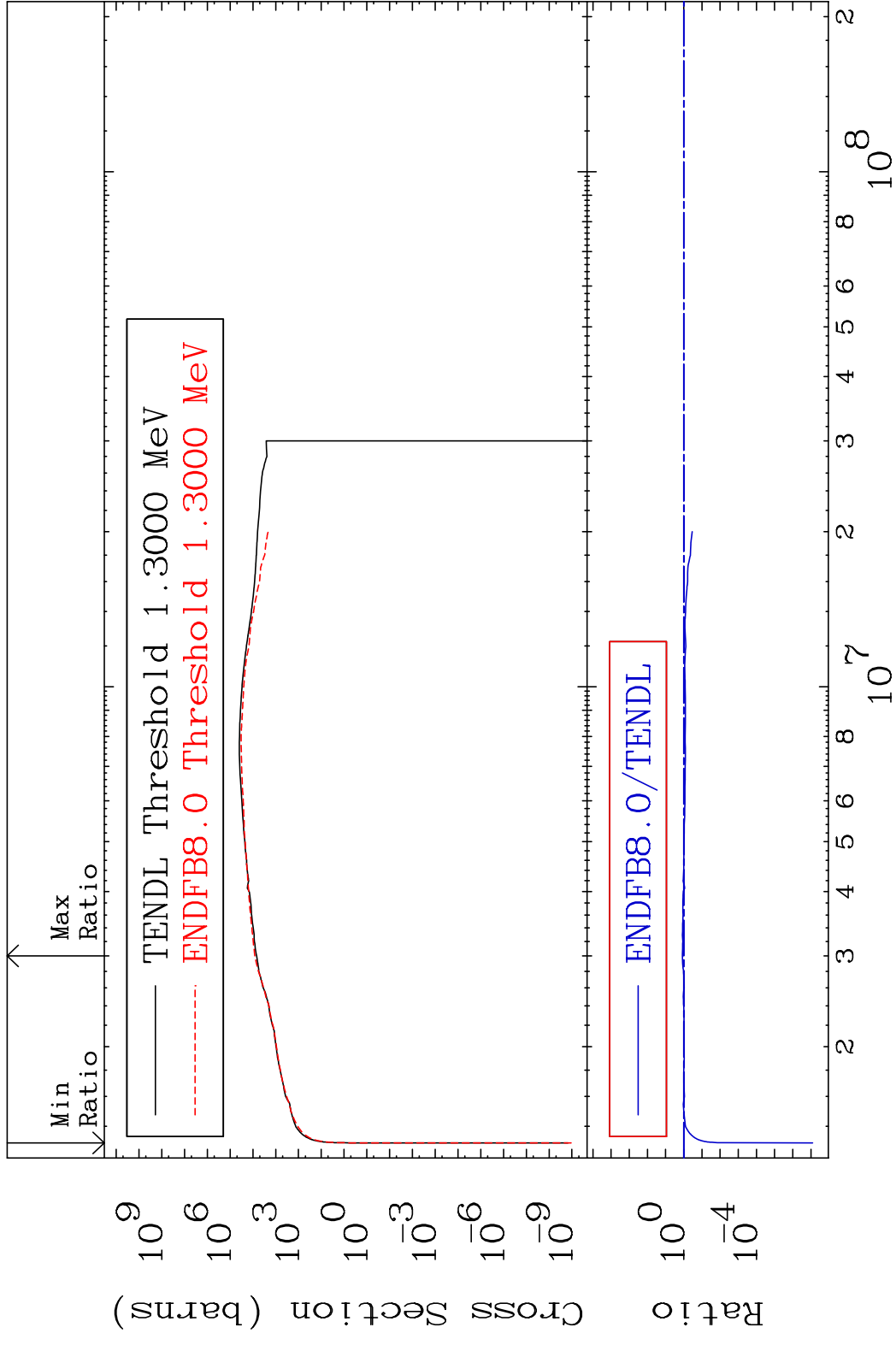
Incident Energy (eV)

18-Ar-39

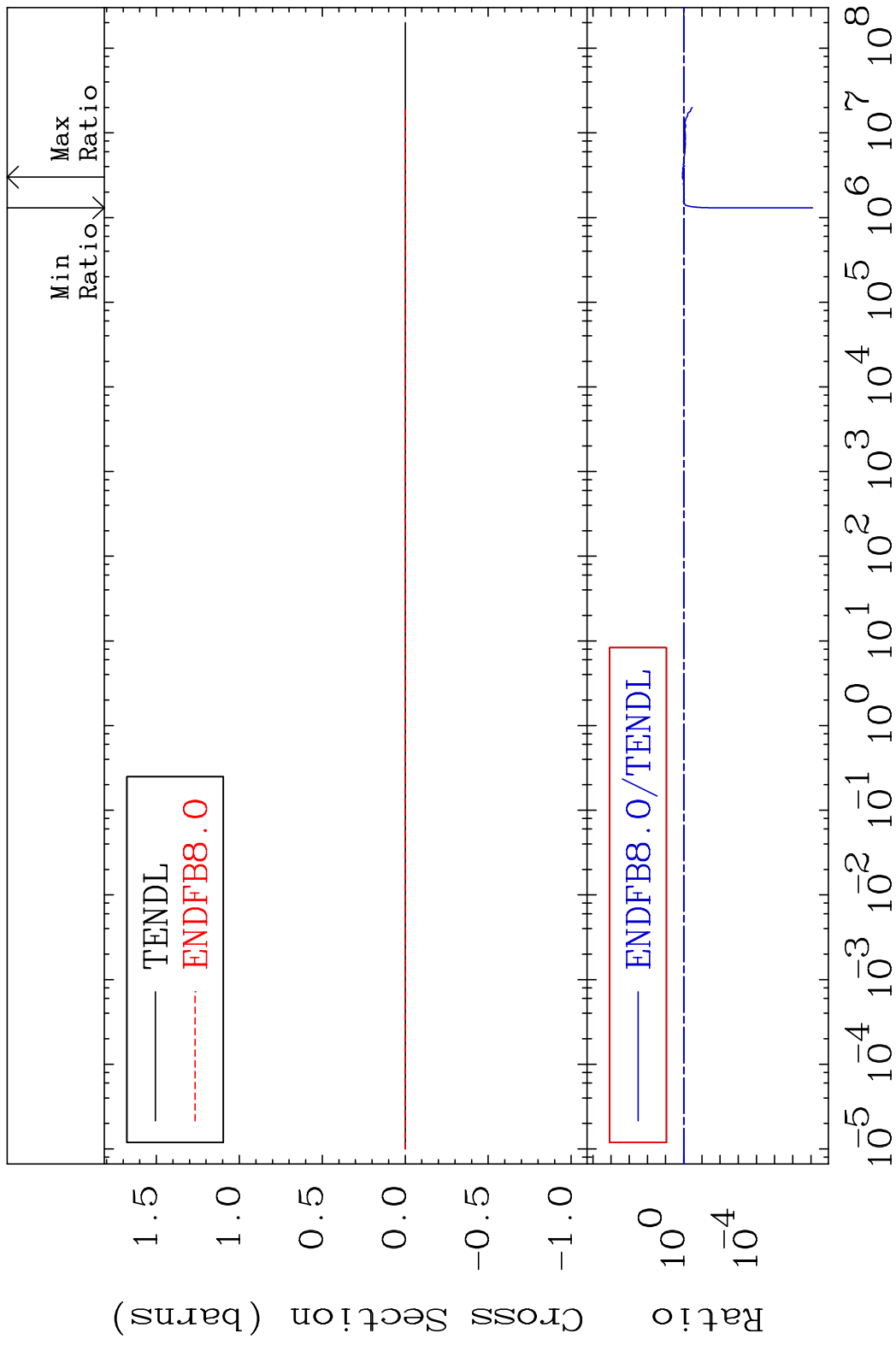
MAT 1834 Kerma non-elastic (all but mt2) 18-Ar-39  
 Cross Section -4.136 To 3102. %



MAT 1834 Kerma inelastic (mt51-91) 18-Ar-39  
 Cross Section -100.0 To 19.20 %



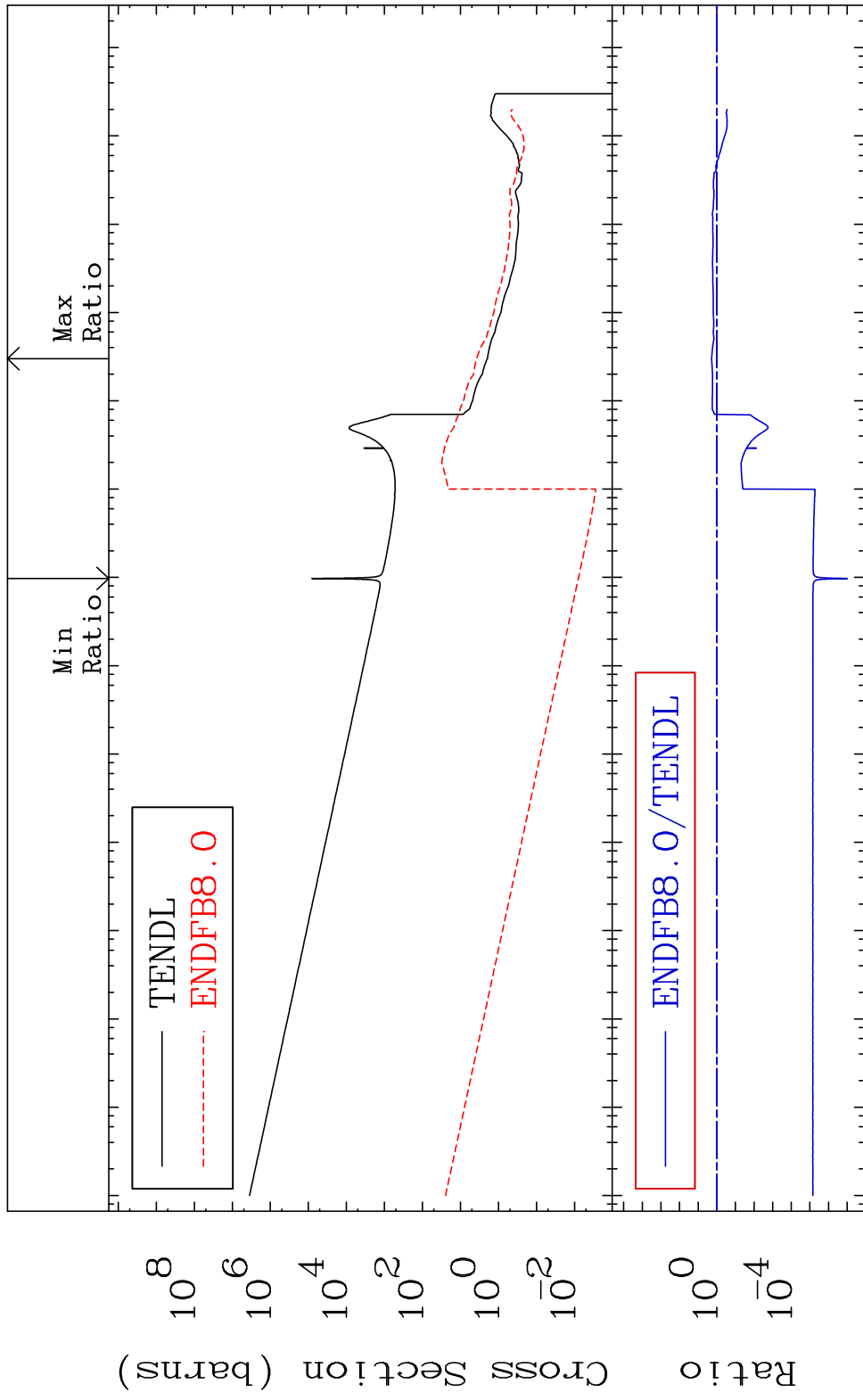
MAT 1834 Kerma fission (mt18 or mt19-20-21-38) 18-Ar-39  
 Cross Section -100.0 To 19.20 %



MAT 1834

Kerma capture (mt102) 18-Ar-39

Cross Section -100.0 To 91.24 %



49

Incident Energy (eV)

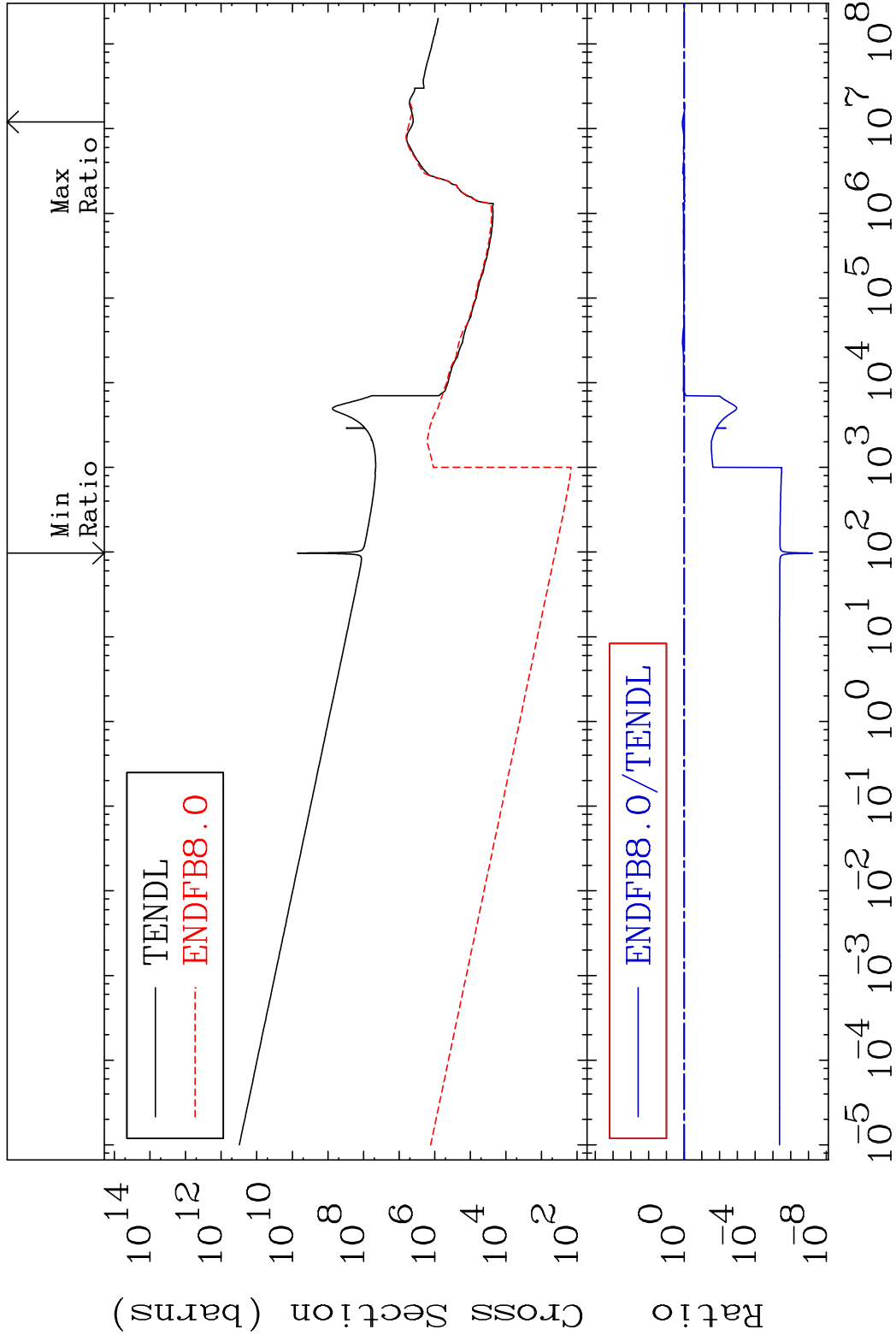
18-Ar-39

MAT 1834

Total photon (eV-barns)

18-Ar-39

Cross Section -100.0 To 25.67 %

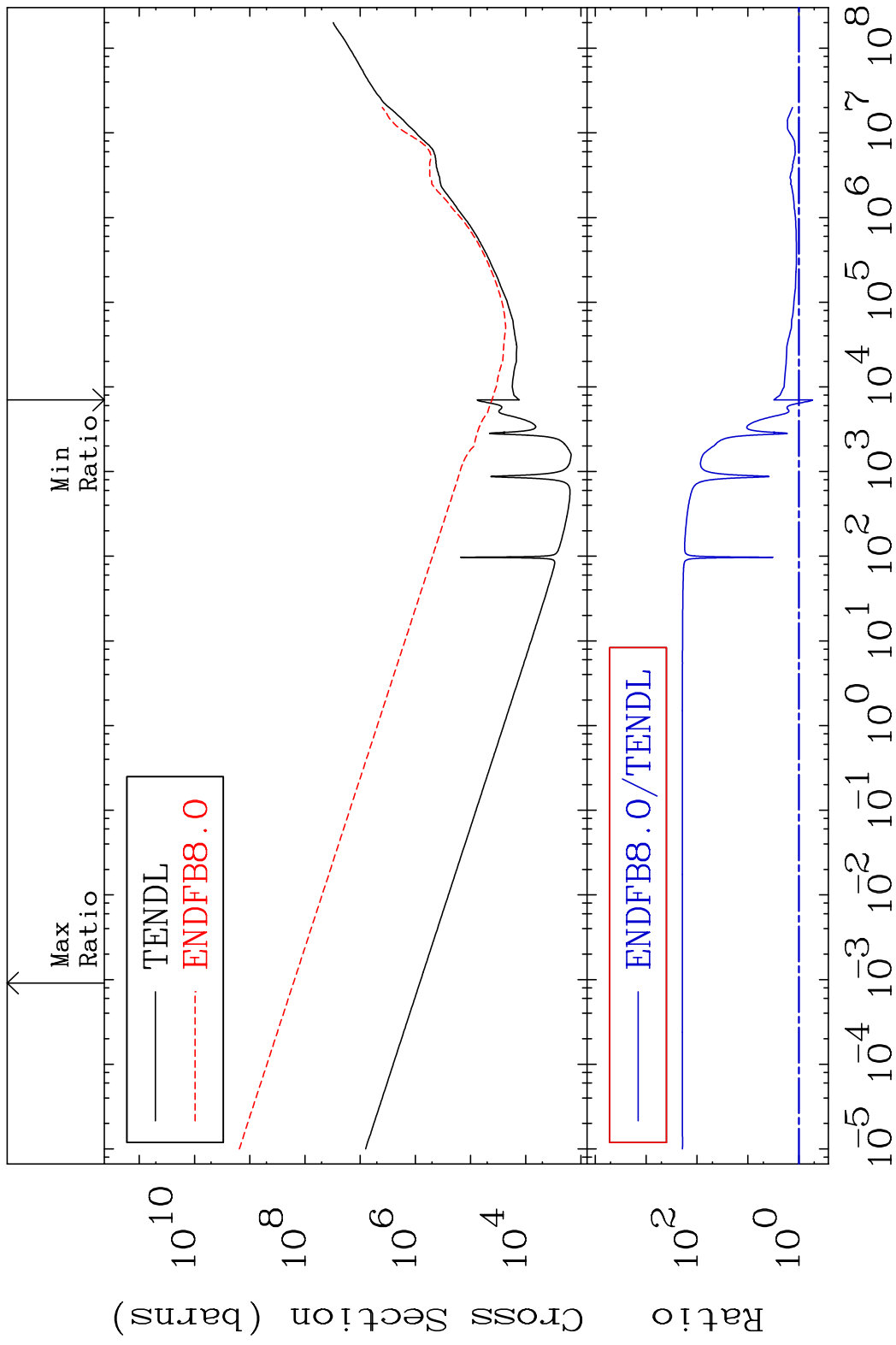


50

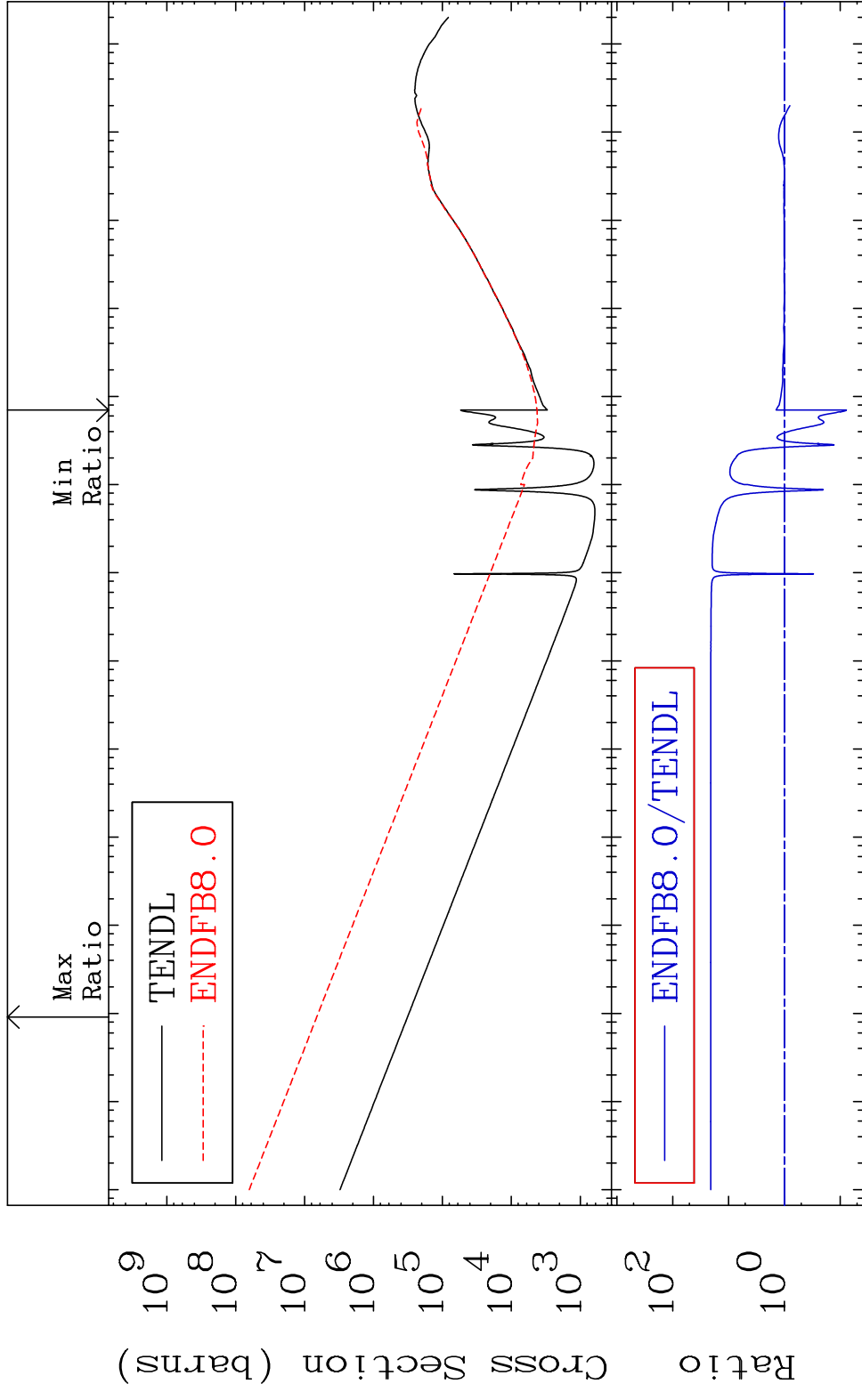
Incident Energy (eV)

18-Ar-39

MAT 1834 Total kinematic kerma (high limit) 18-Ar-39  
 Cross Section -46.29 To 9999. %

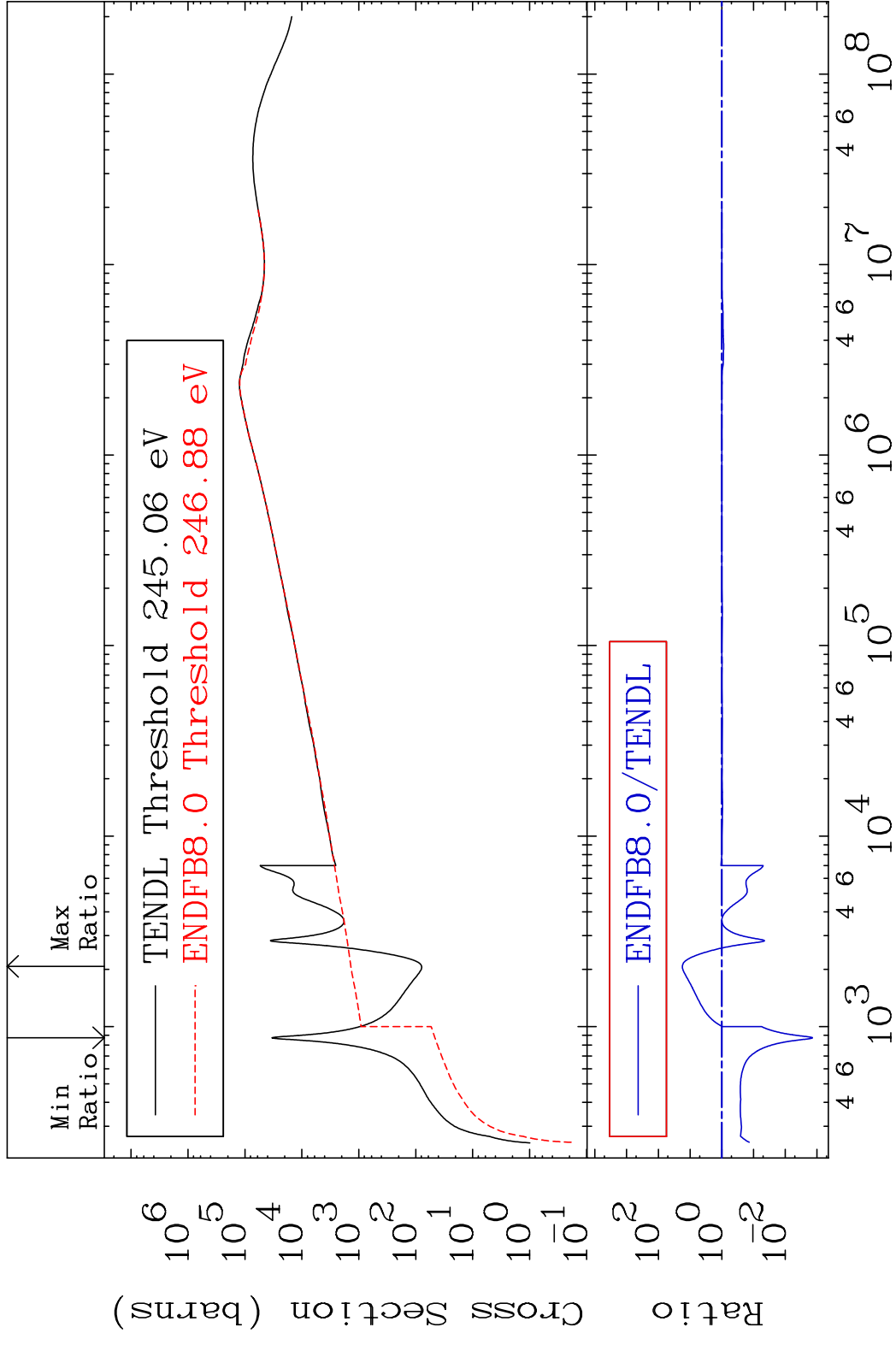


MAT 1834      Dpa total (eV-barns)      18-Ar-39  
 Cross Section      -92.24 To 1982. %

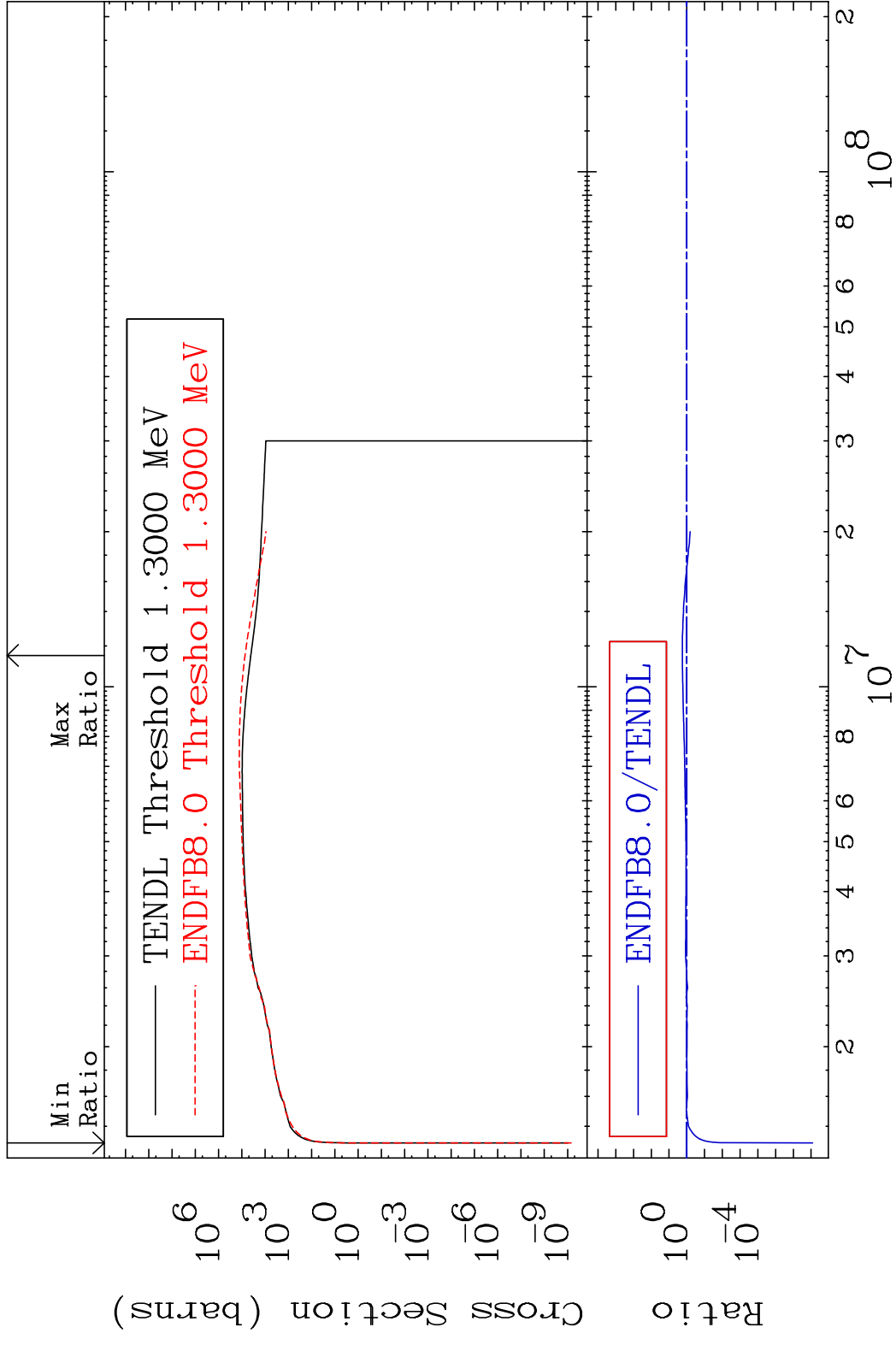


52      Incident Energy (eV)      18-Ar-39

MAT 1834      Dpa elastic (mt2)      18-Ar-39  
 Cross Section      -99.86 To 1650. %



MAT 1834 Dpa inelastic (mt51-91) 18-Ar-39  
 Cross Section -100.0 To 77.89 %



MAT 1834 Dpa disappearance (mt102 -120) 18-Ar-39  
 Cross Section -73.69 To 1982. %

