

Program Complot
(Version 2018-1)

by

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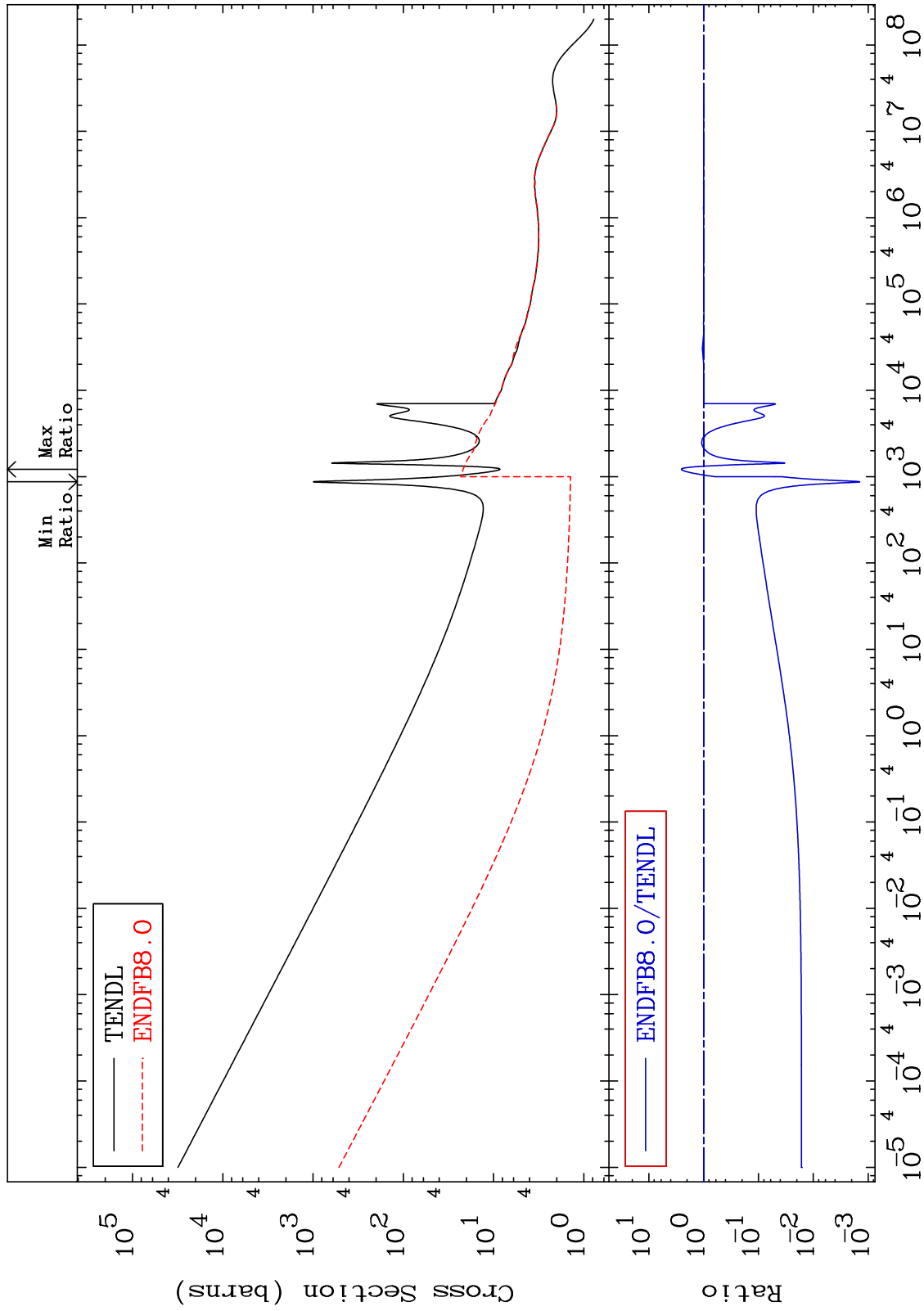
Press Mouse Button to Start

MAT 1834

Total
Cross Section

18-Ar-39

-99.86 To 156.6 %



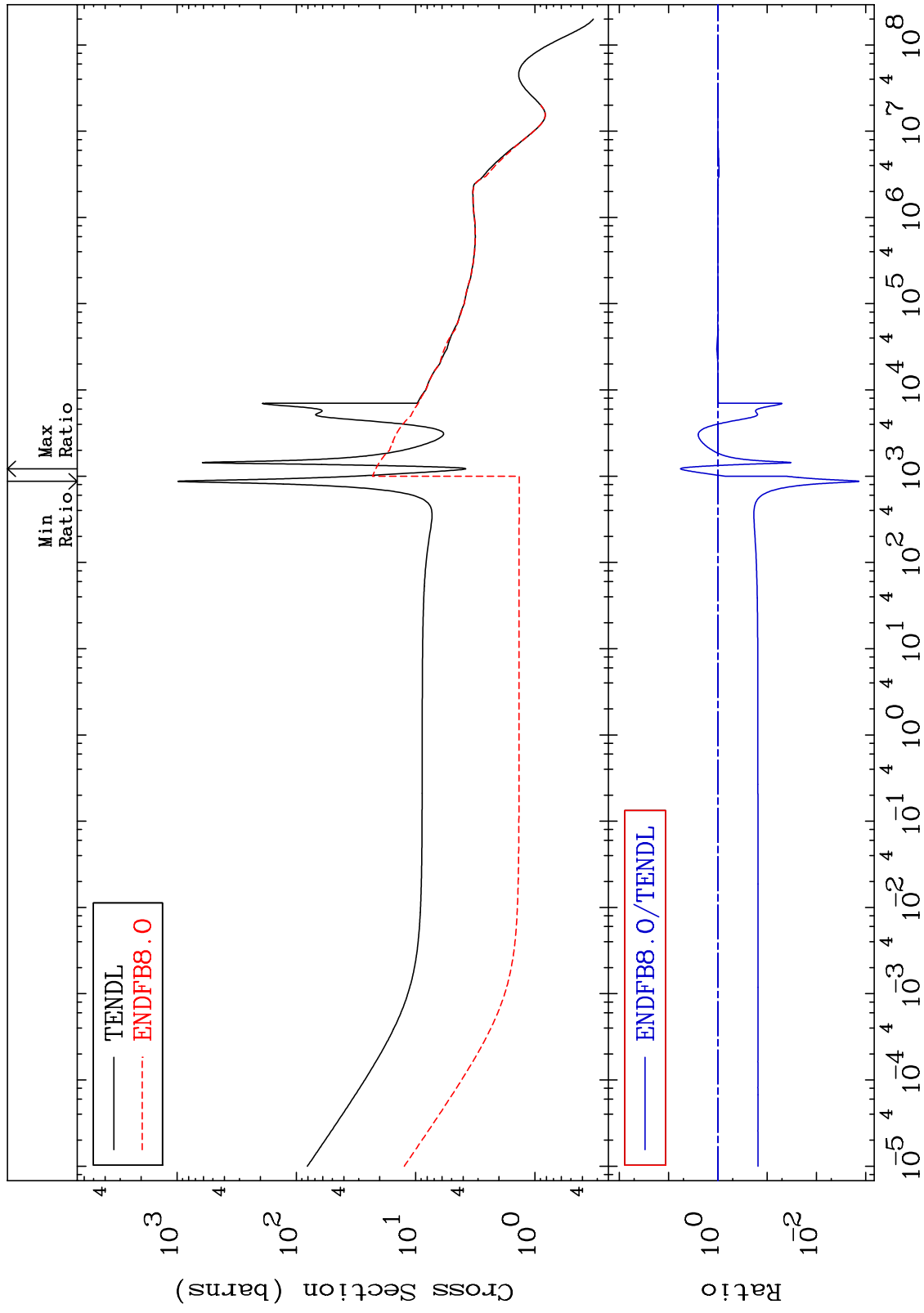
Incident Energy (eV)

18-Ar-39

MAT 1834

Elastic
Cross Section

18-Ar-39
-99.86 To 468.1 %



2

Incident Energy (eV)

18-Ar-39

MAT 1834

Inelastic

18-Ar-39

-60.92 To 14.91 %

Cross Section

Max Ratio

Min Ratio

TENDL Threshold 1.3000 MeV
ENDFB8.0 Threshold 1.3000 MeV

Cross Section (barns)

1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0

Ratio

ENDFB8.0/TENDL

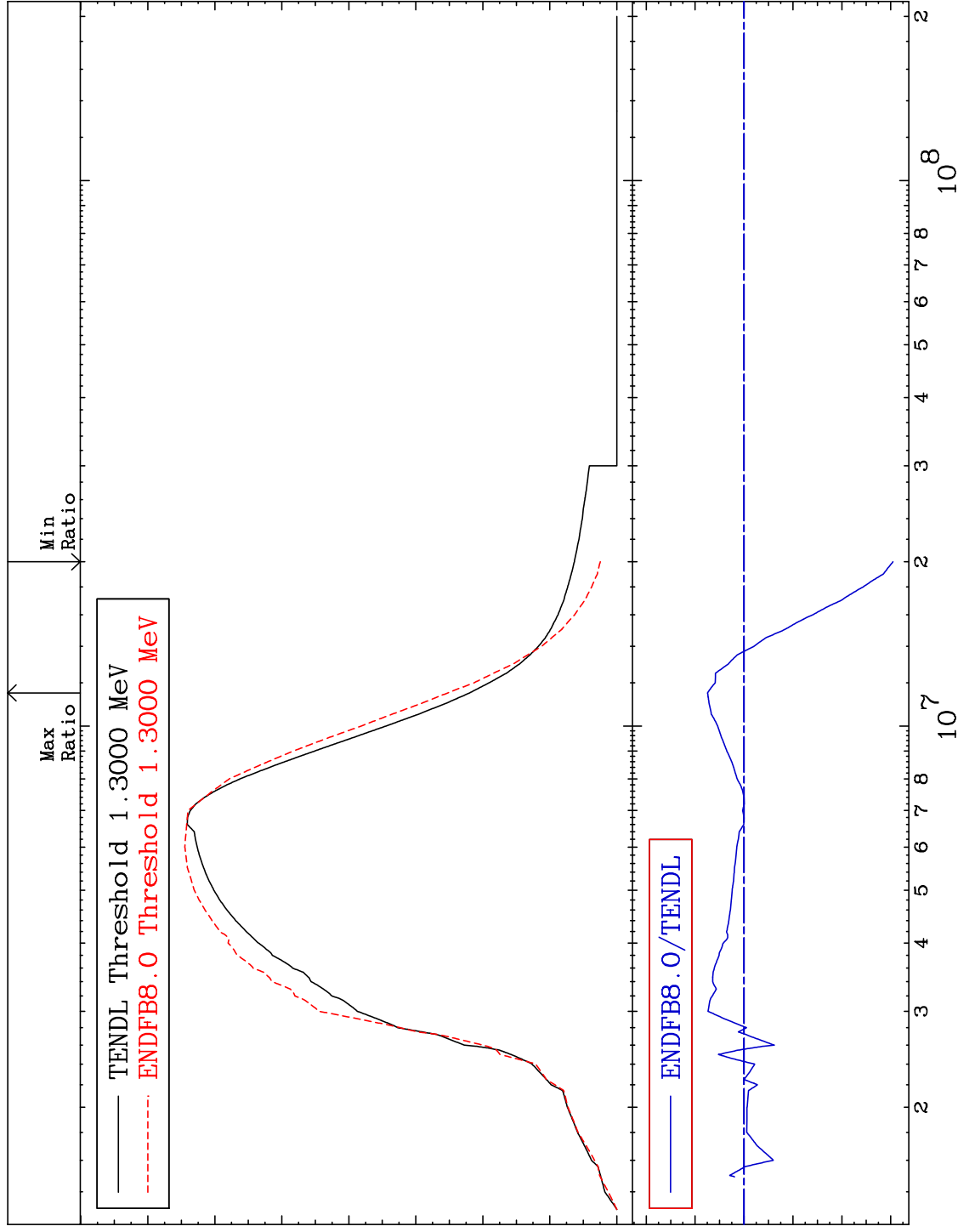
1.2
0.8
0.4

10⁷ 10⁸

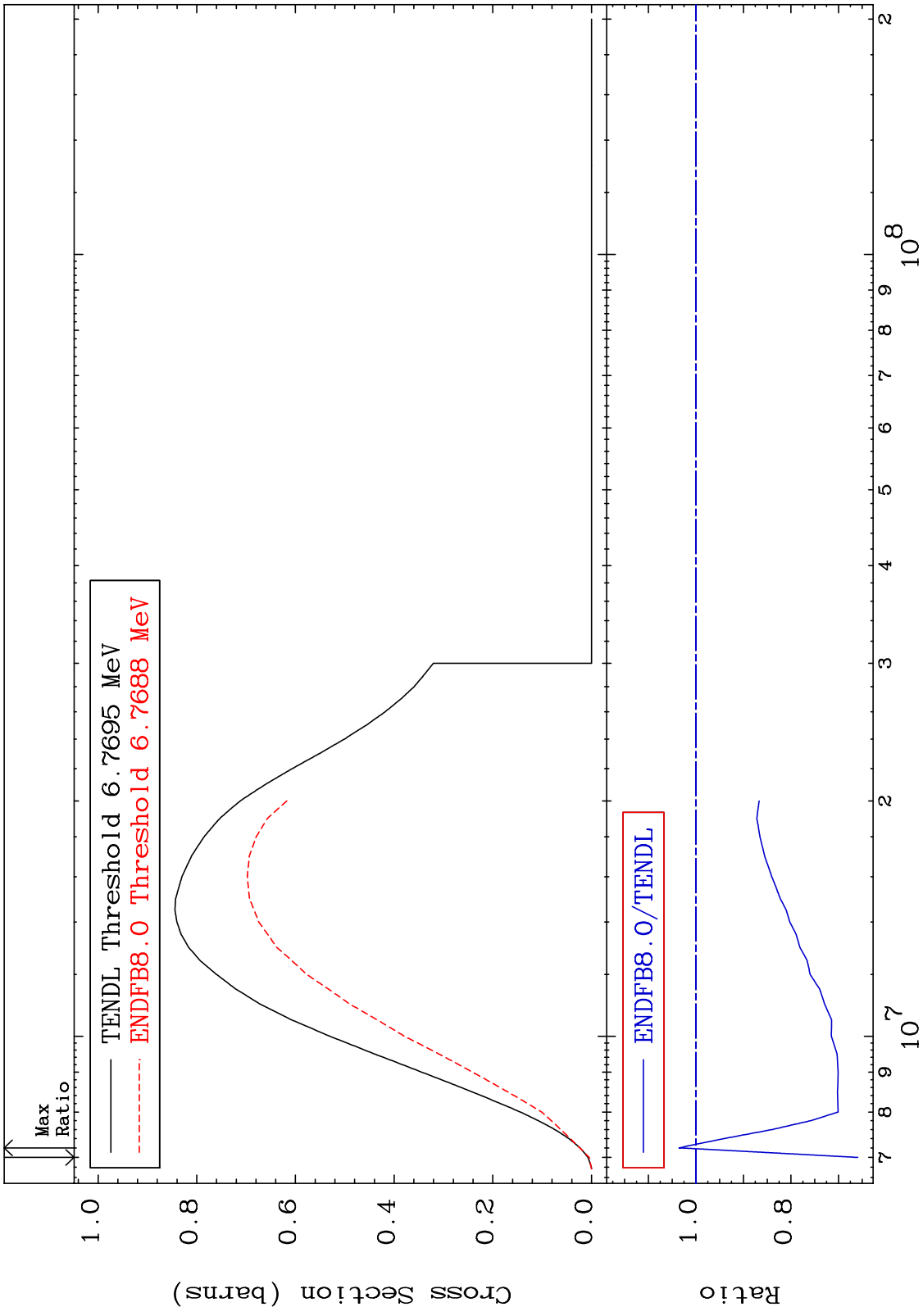
3

Incident Energy (eV)

18-Ar-39



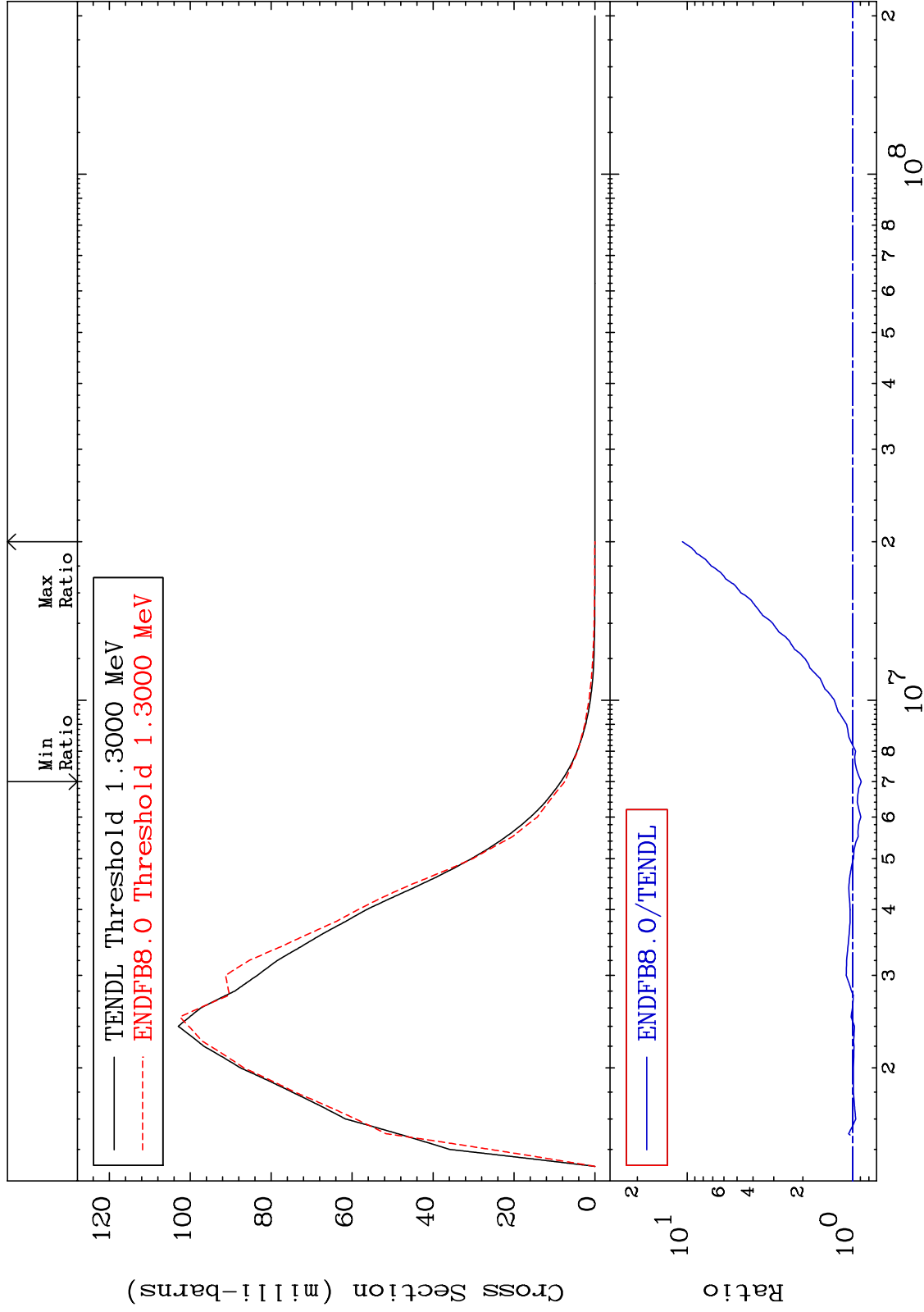
MAT 1834 (n,2n) Cross Section 18-Ar-39
 -34.07 To 3.546 %



MAT 1834

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

18-Ar-39
-11.20 To 967.7 %



5

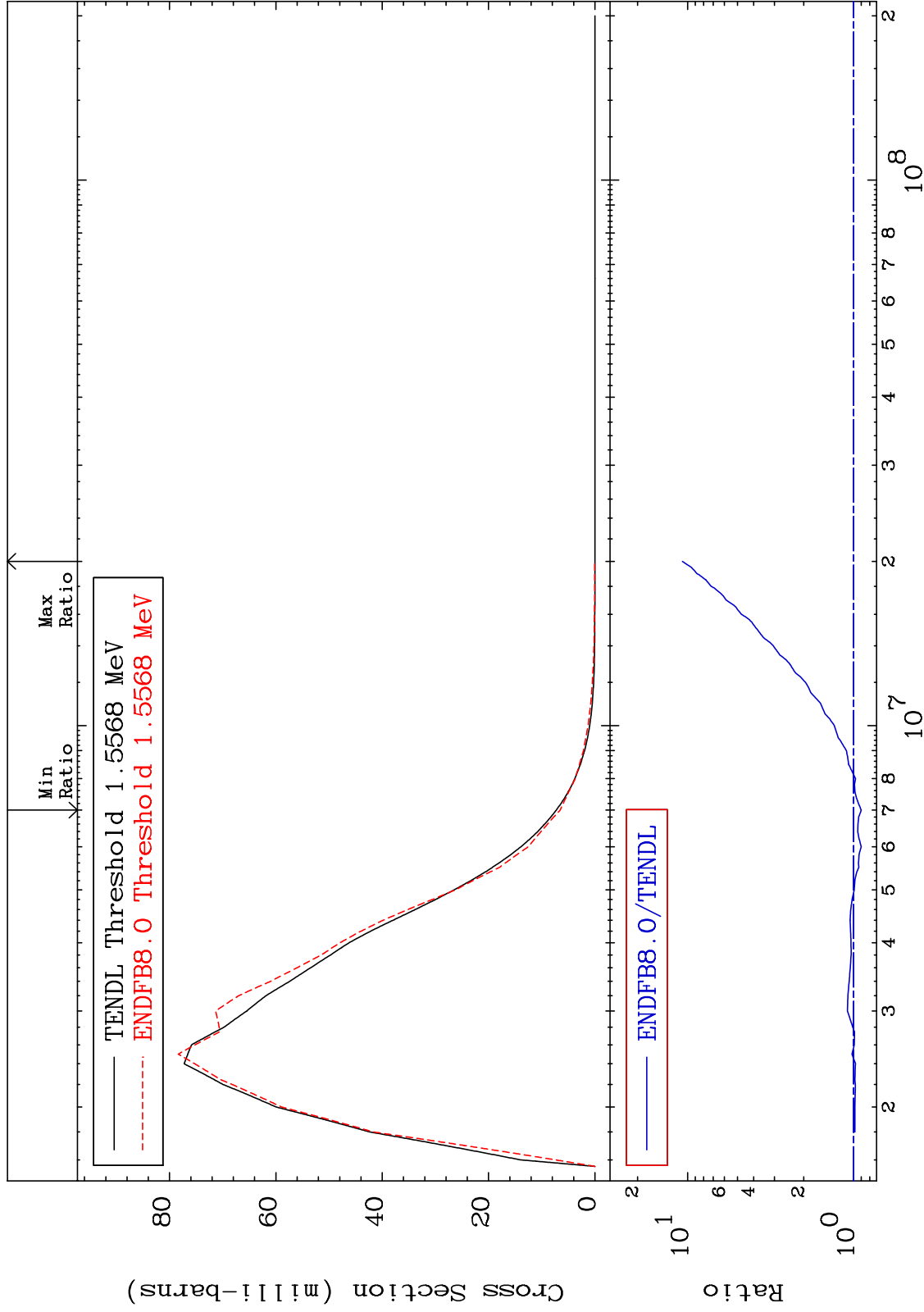
18-Ar-39

18-Ar-39

MAT 1834

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

18-Ar-39
-10.08 To 973.7 %

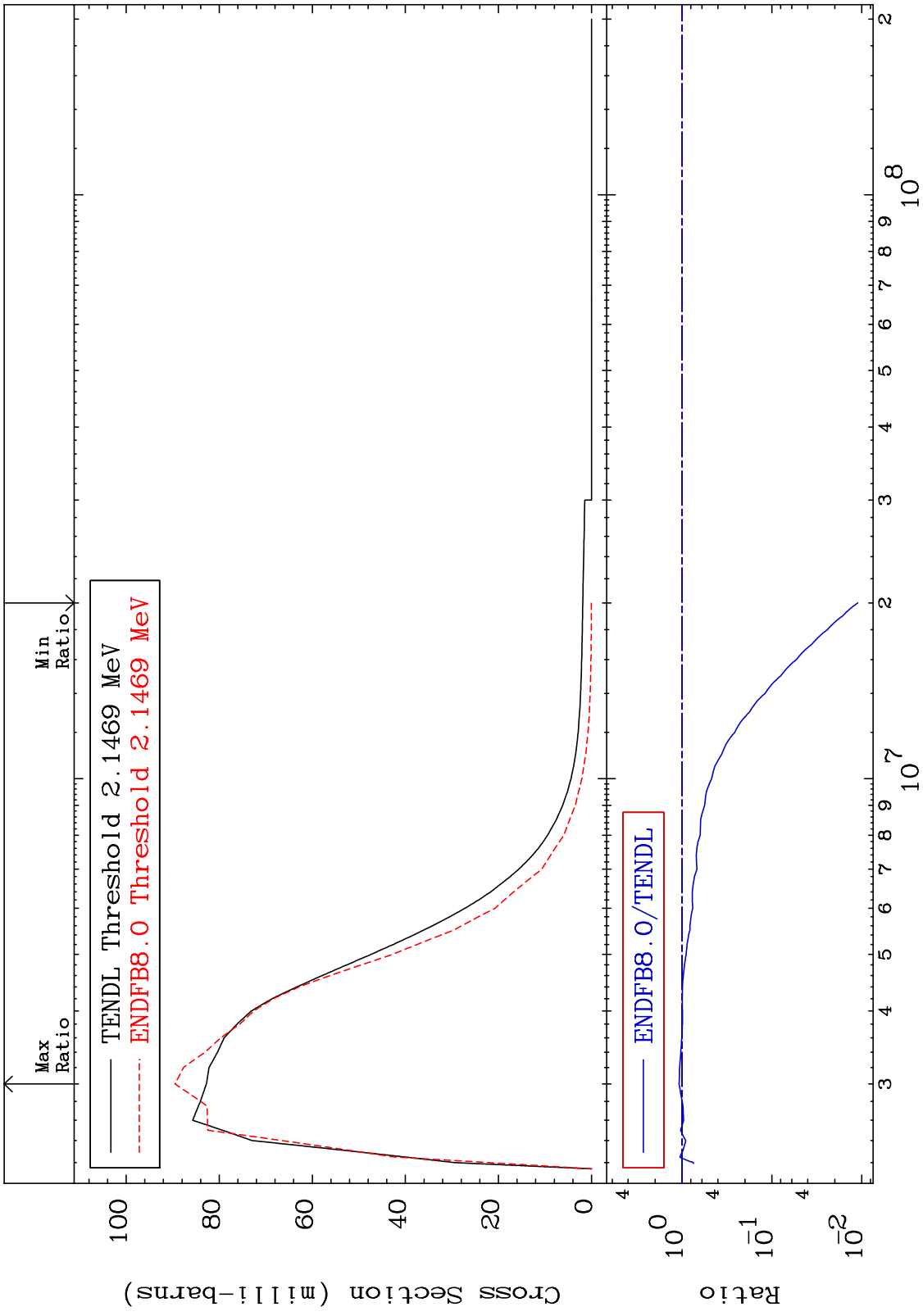


6

Incident Energy (eV)

18-Ar-39

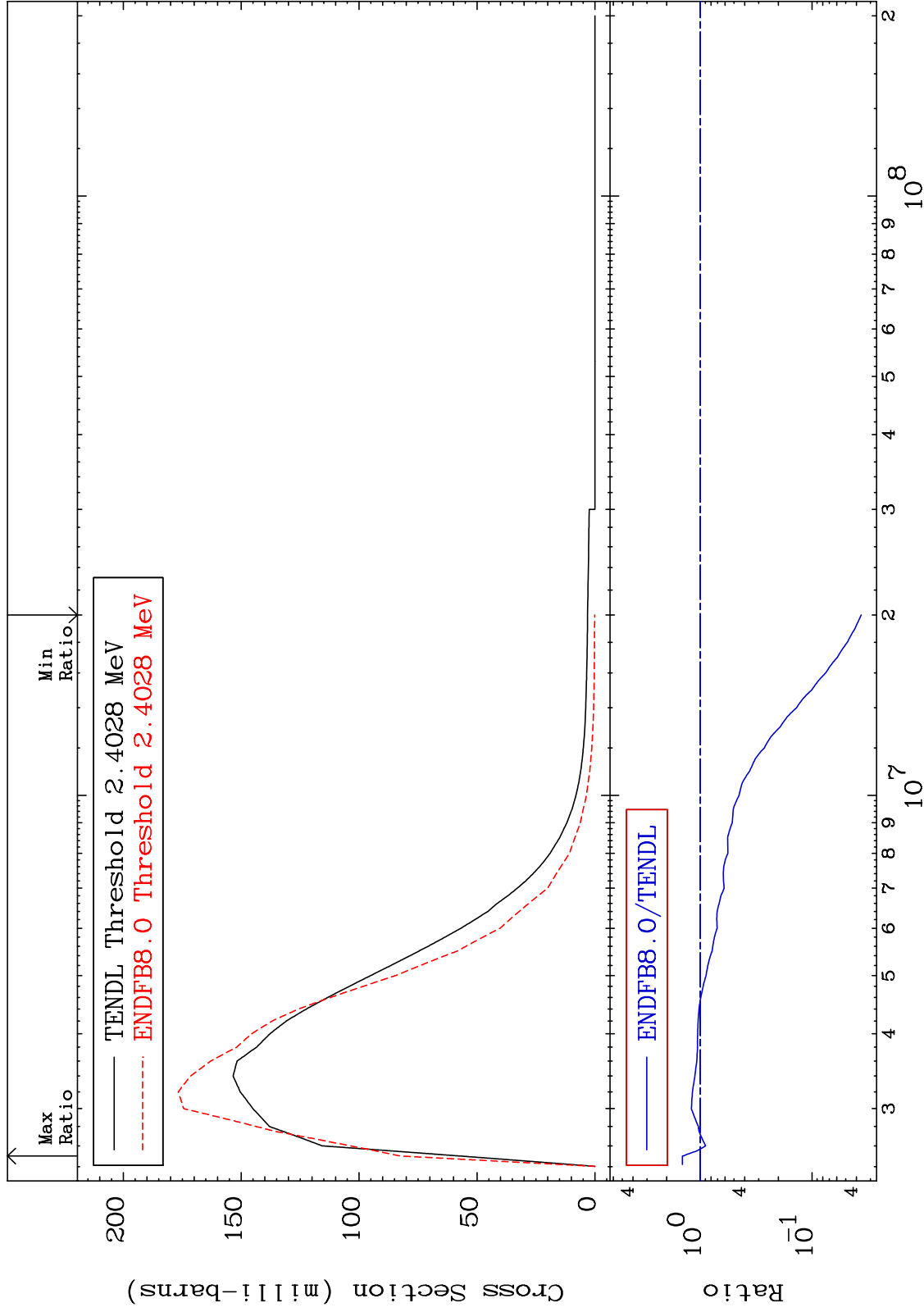
MAT 1834 MT= 53 (n,n') Level Cross Section 18-Ar-39
 -98.89 To 8.163 %



MAT 1834

MT= 54 (n,n') Level
Cross Section

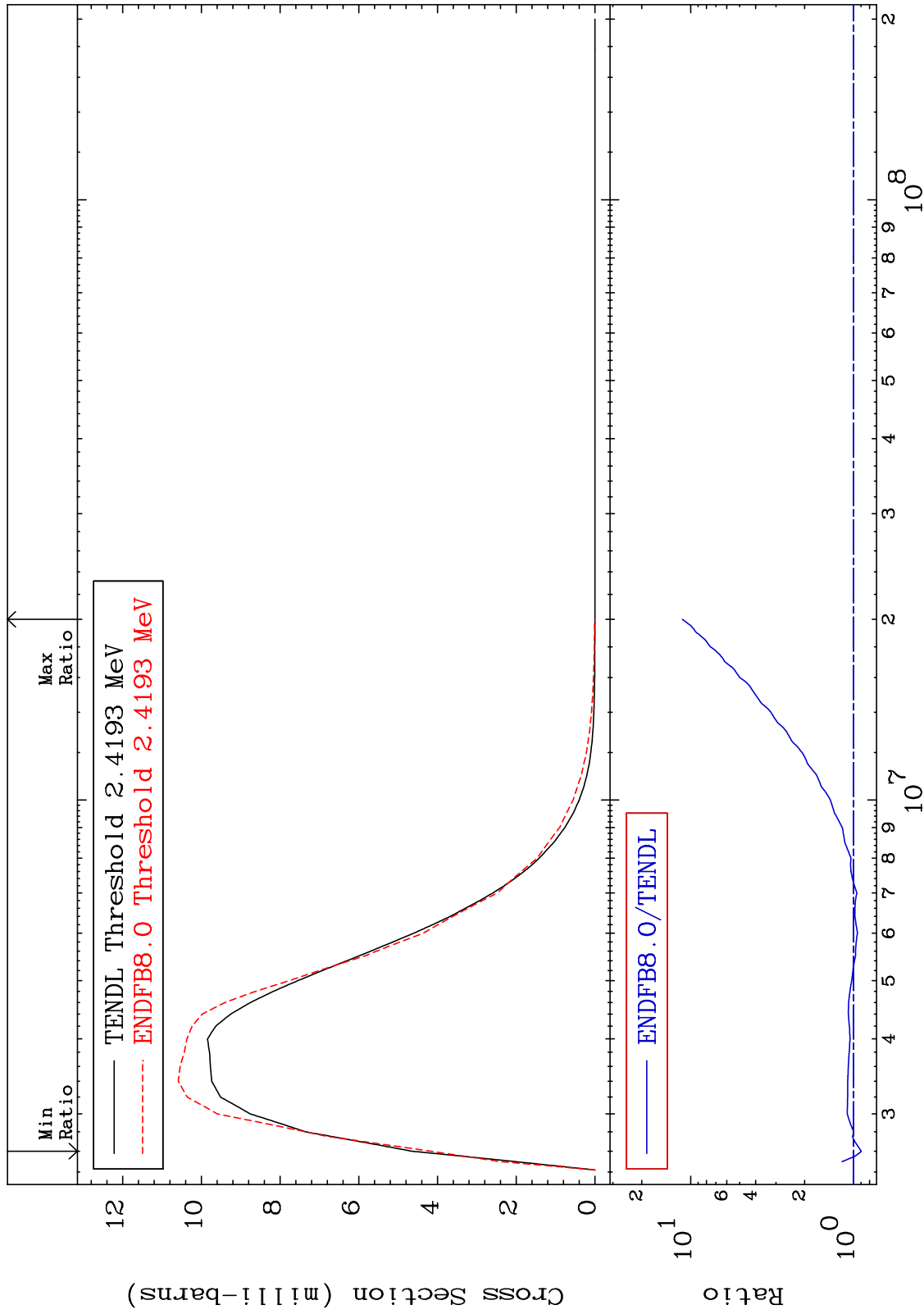
18-Ar-39
-96.38 To 44.32 %



MAT 1834

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

18-Ar-39
-10.20 To 1023. %

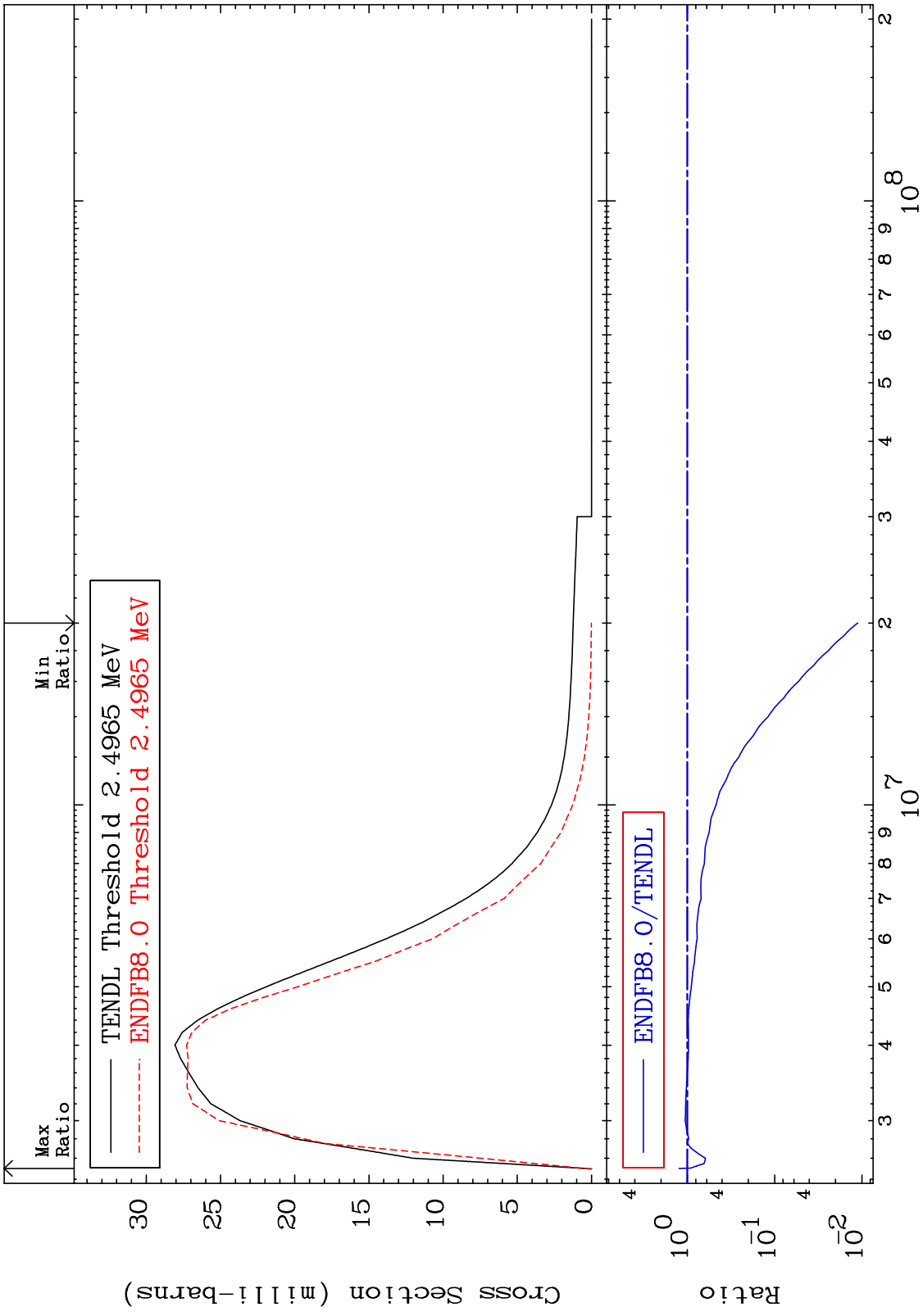


9

Incident Energy (eV)

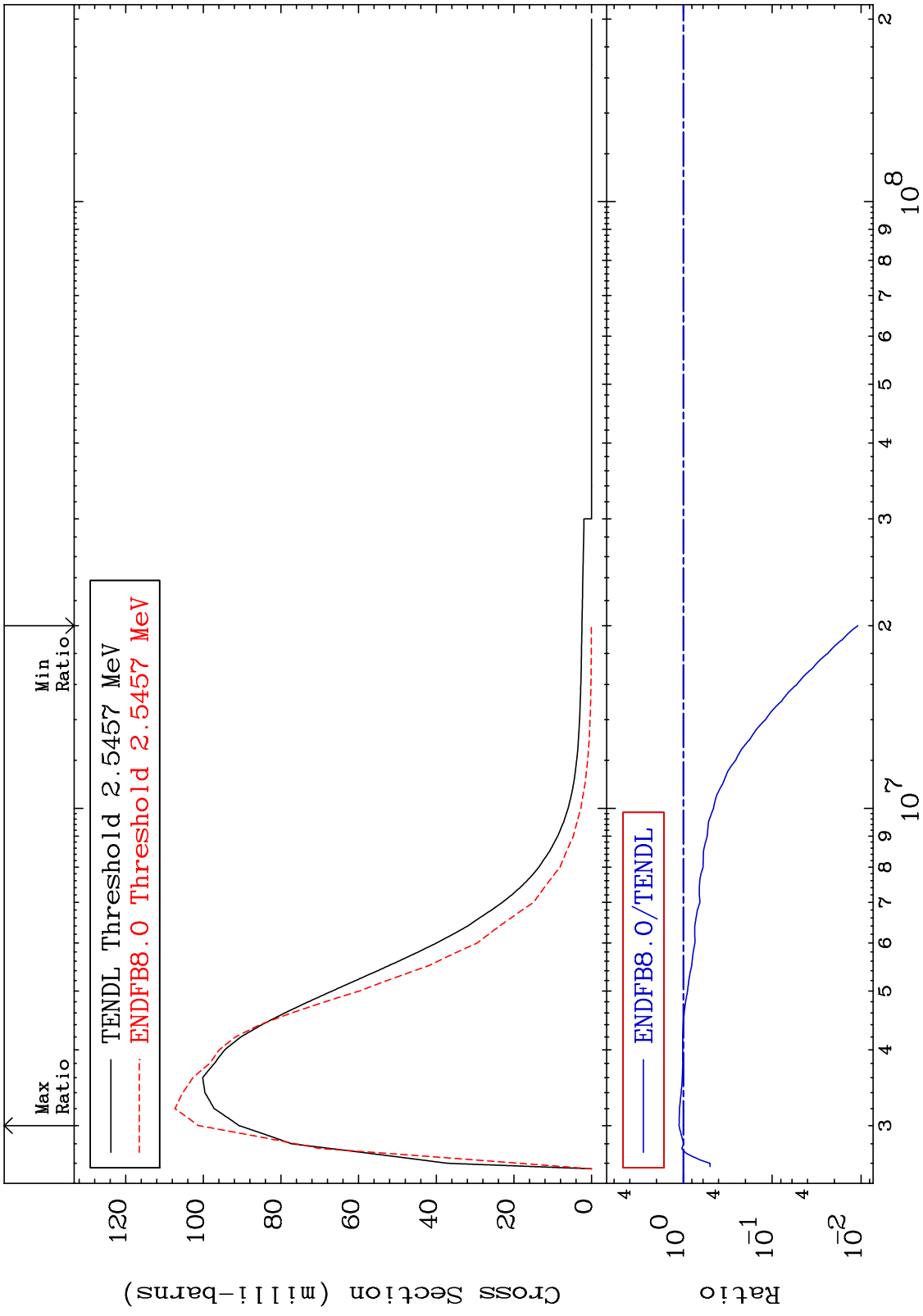
18-Ar-39

MAT 1834 MT= 56 (n,n') Level Cross Section 18-Ar-39
 -98.89 To 24.63 %

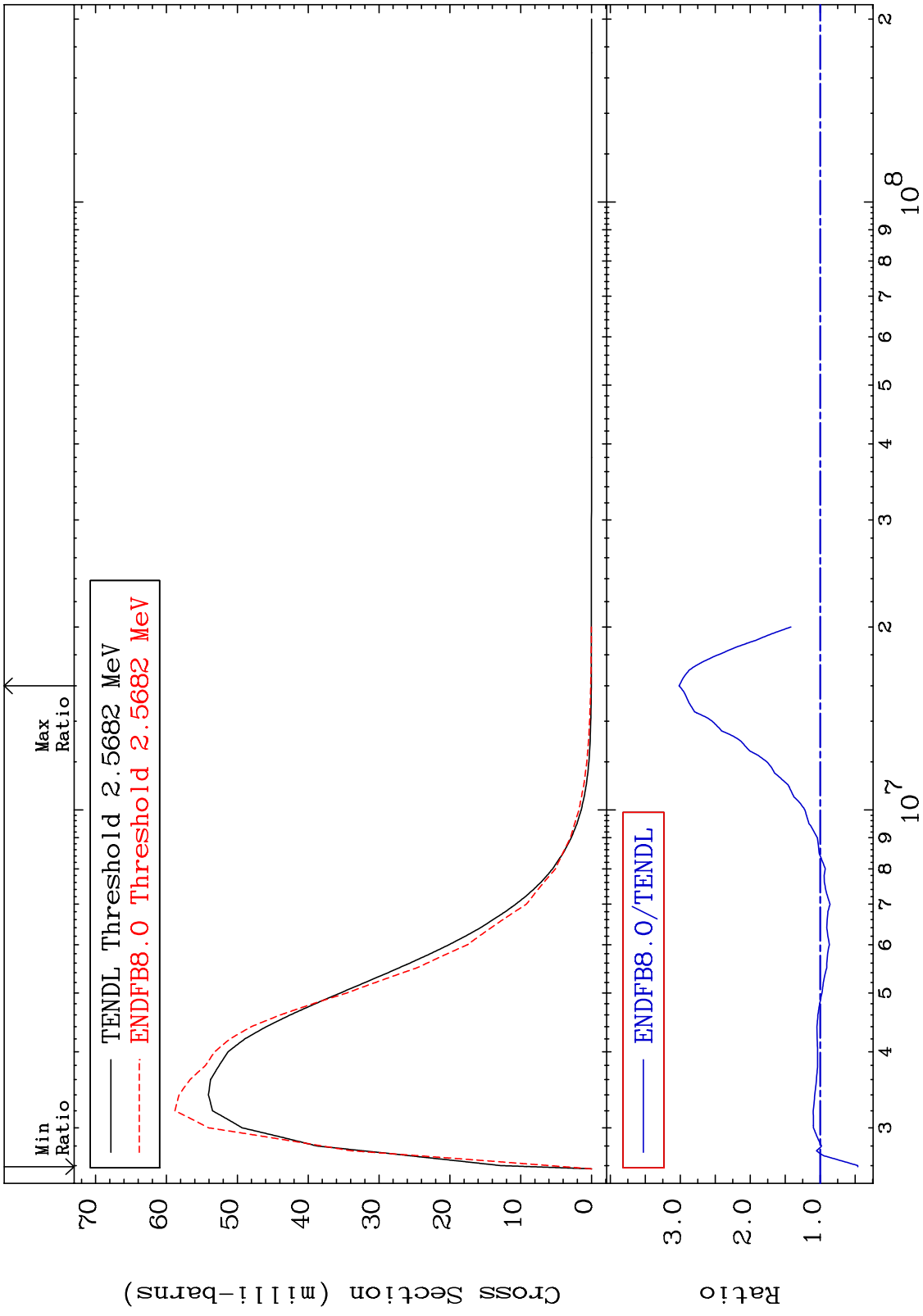


10 18-Ar-39

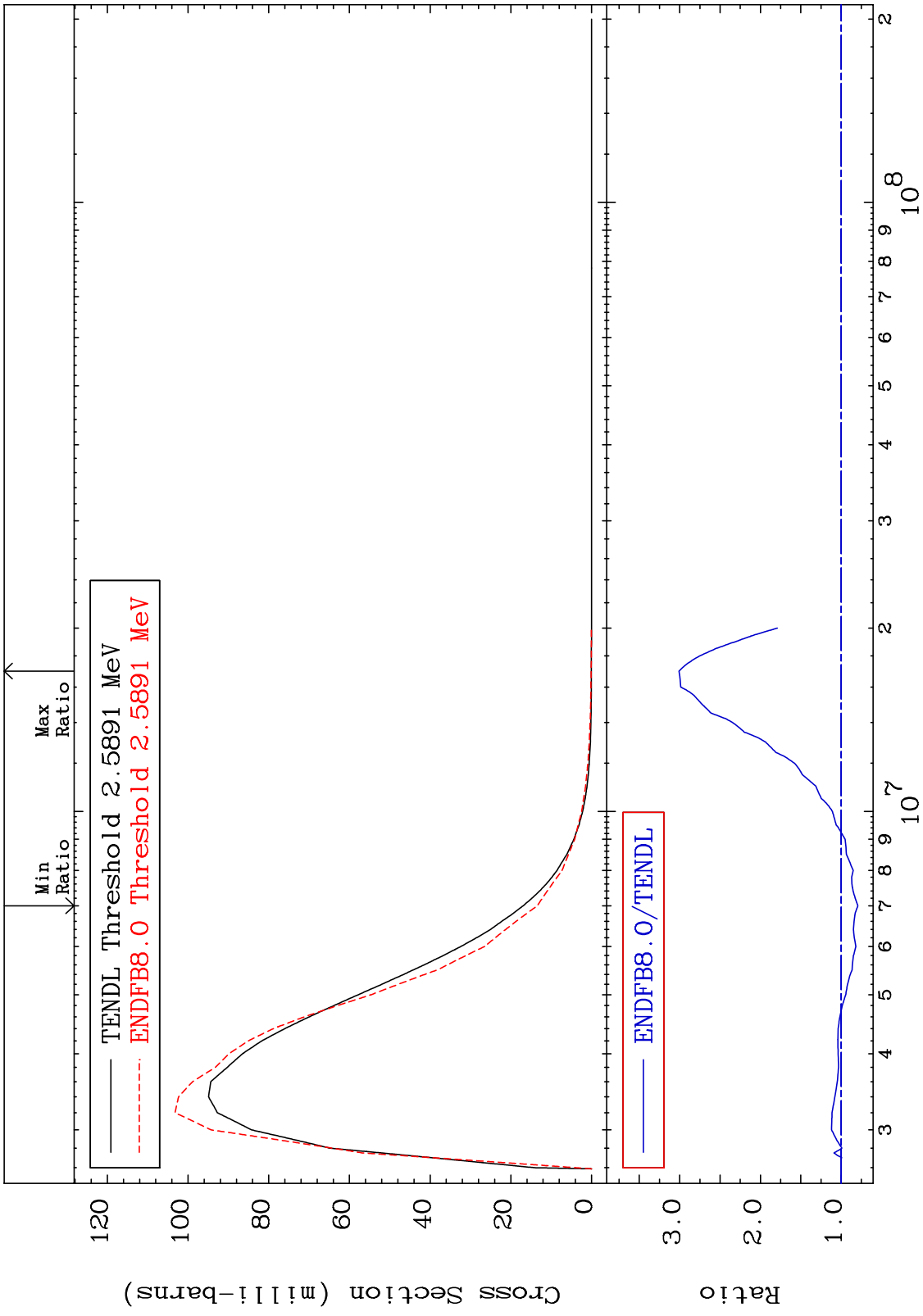
MAT 1834 MT= 57 (n,n') Level Cross Section 18-Ar-39
 -98.91 To 11.58 %



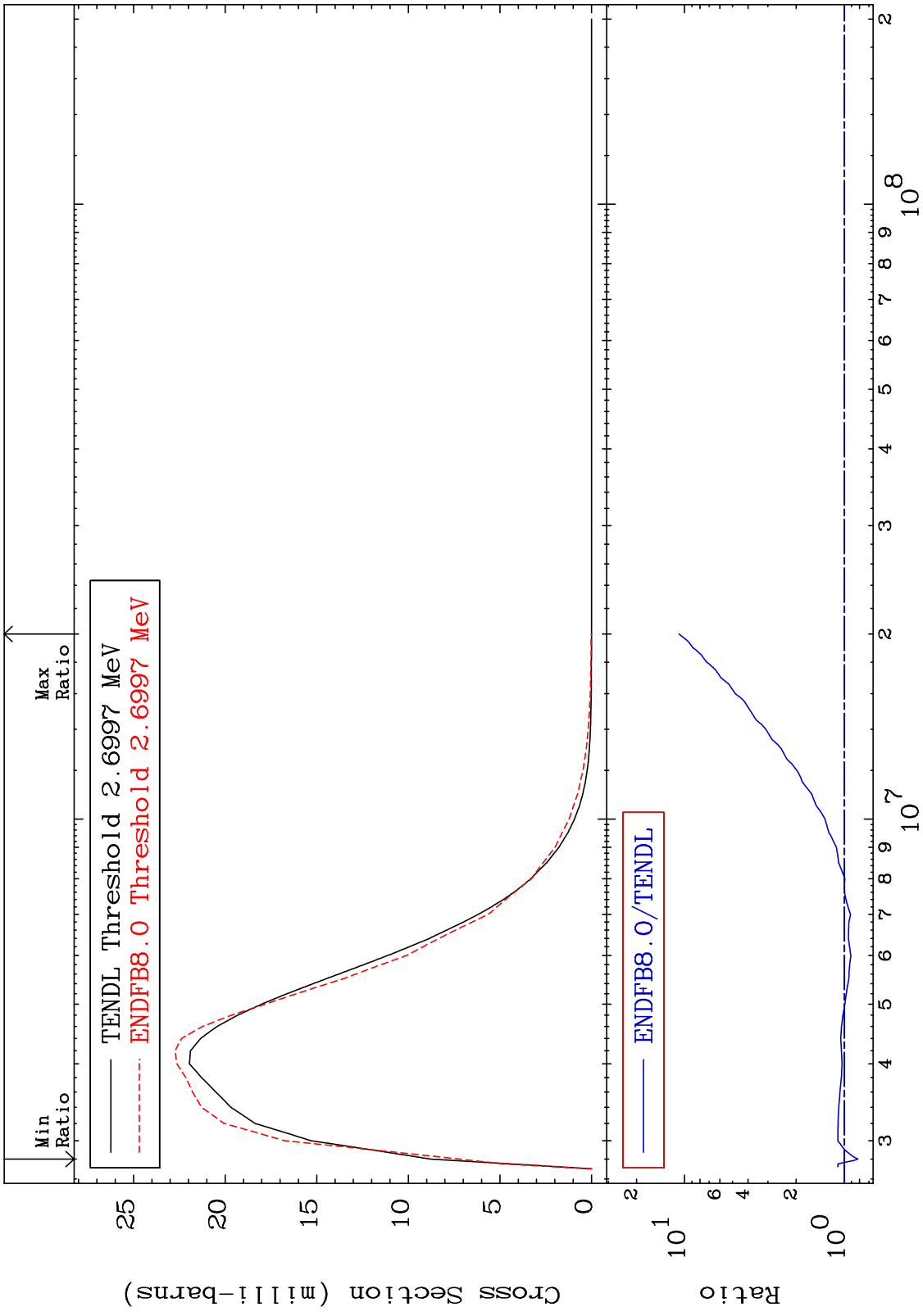
MAT 1834 MT= 58 (n,n') Level Cross Section -53.82 To 201.8 % 18-Ar-39



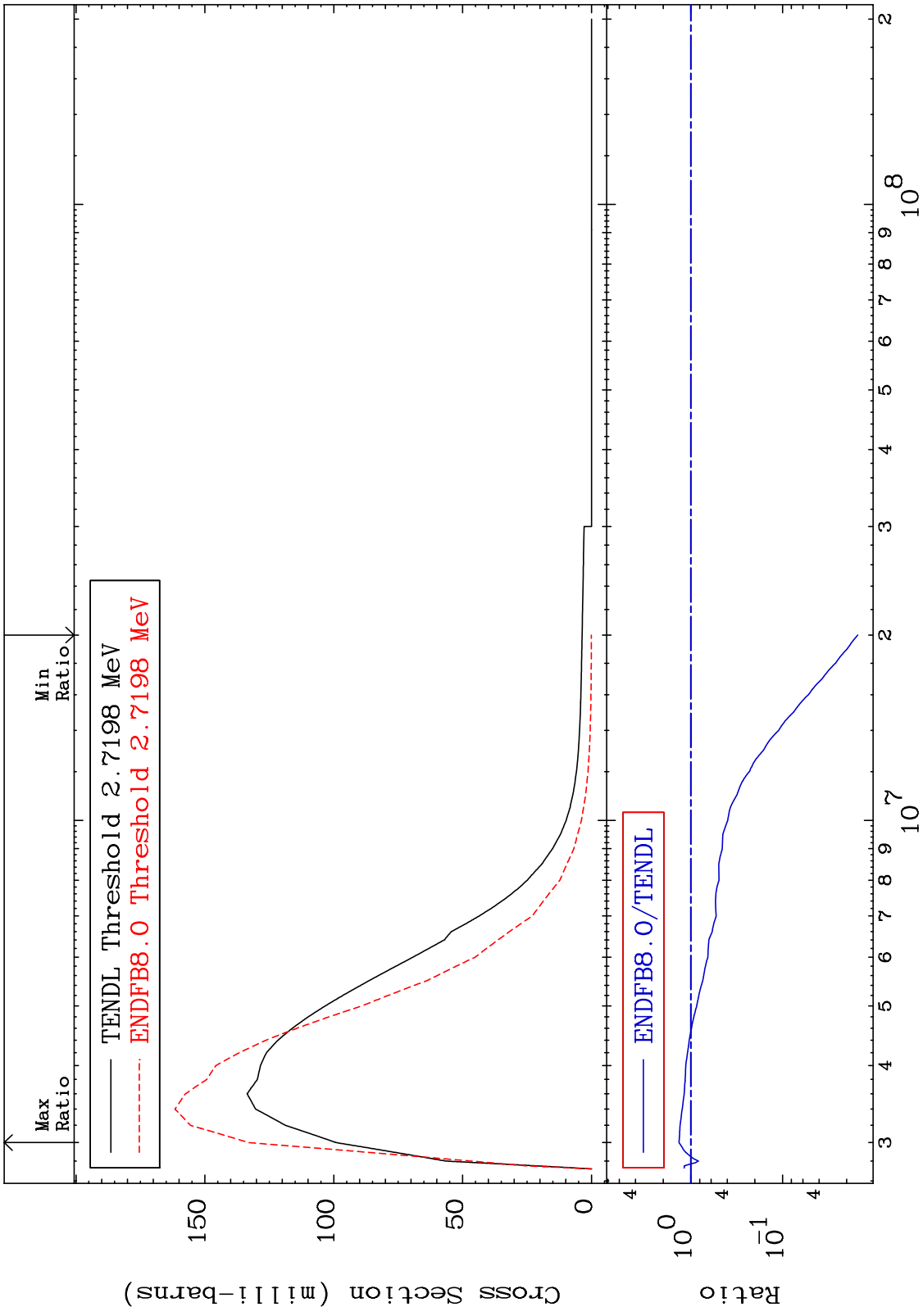
MAT 1834 MT= 59 (n,n') Level Cross Section 18-Ar-39
 -20.62 To 200.8 %



MAT 1834 MT= 60 (n,n') Level Cross Section -17.93 To 982.1 % 18-Ar-39



MAT 1834 MT= 61 (n,n') Level Cross Section 18-Ar-39
 -98.49 To 34.21 %

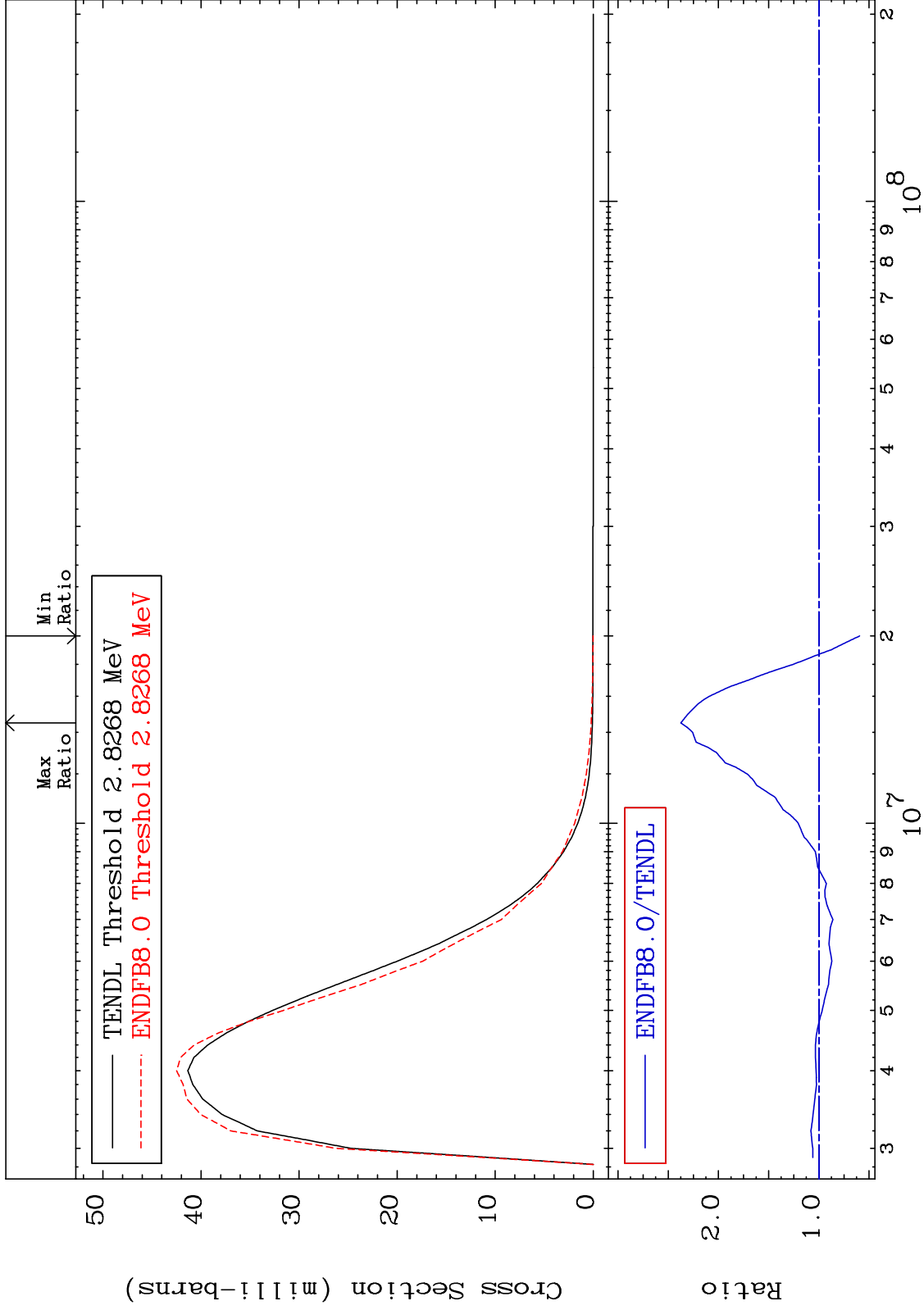


15 18-Ar-39

MAT 1834

MT= 62 (n,n') Level
Cross Section

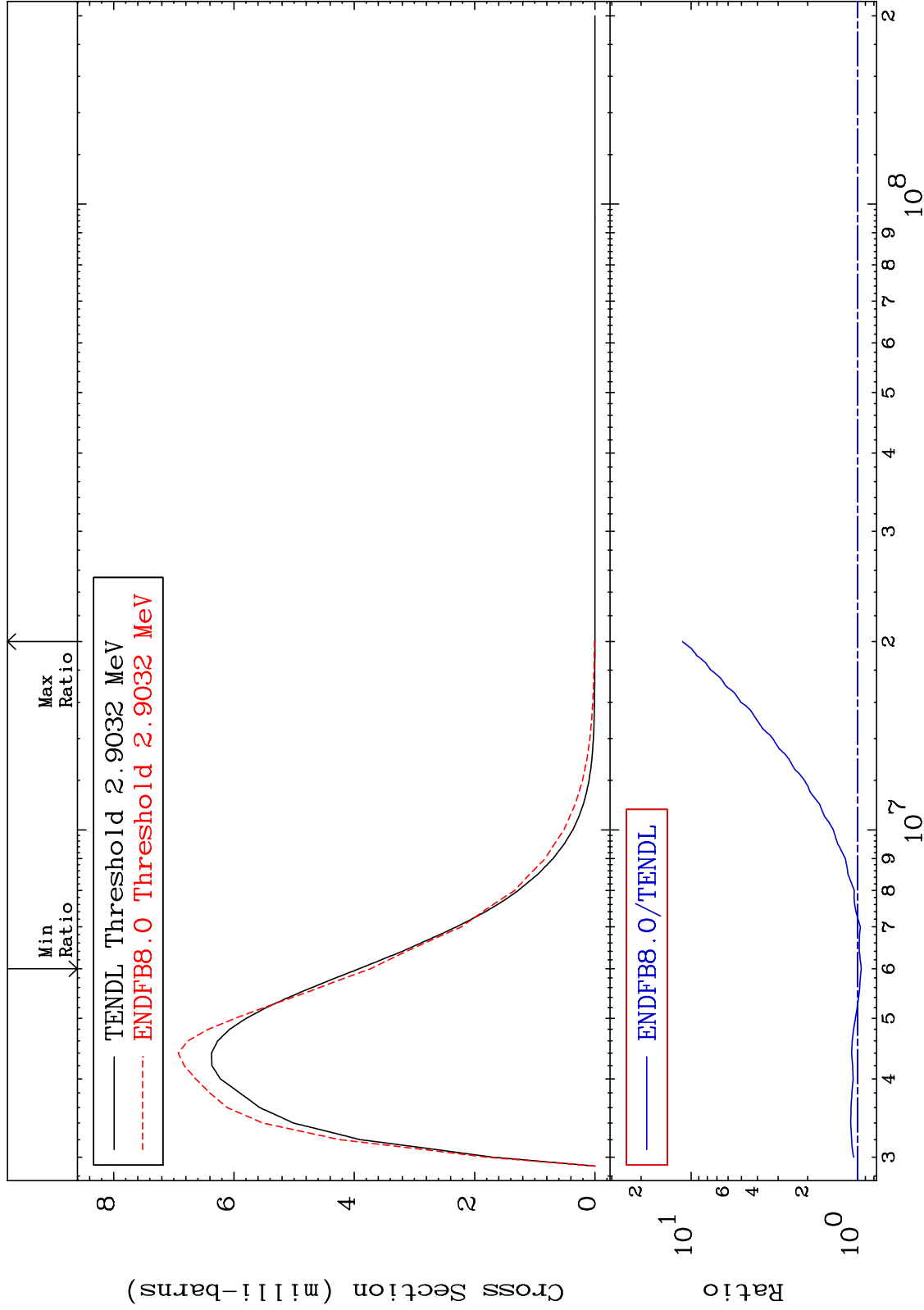
18-Ar-39
-40.59 To 137.5 %



MAT 1834

MT= 63 (n,n') Level
Cross Section

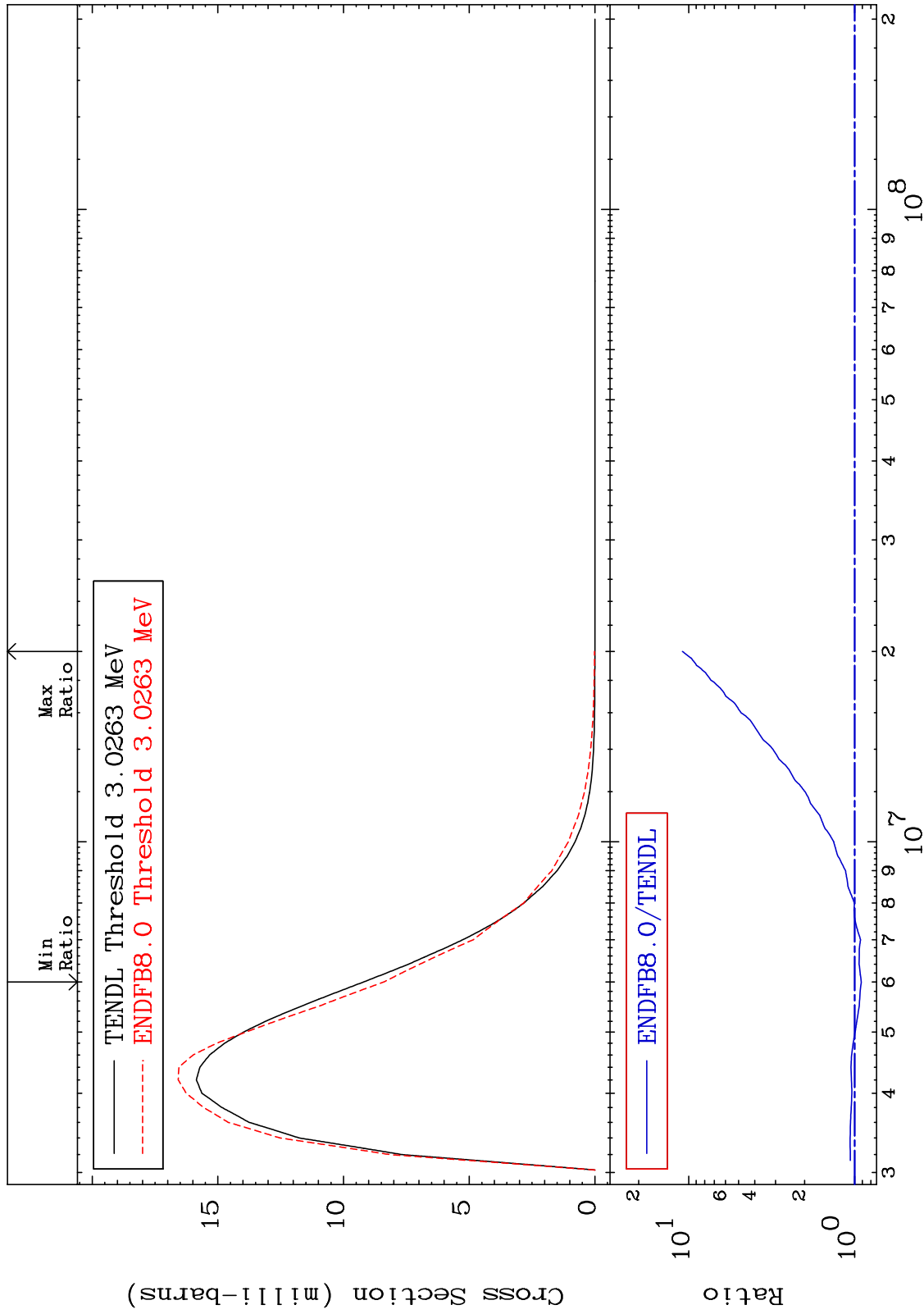
18-Ar-39
-4.833 To 1028. %



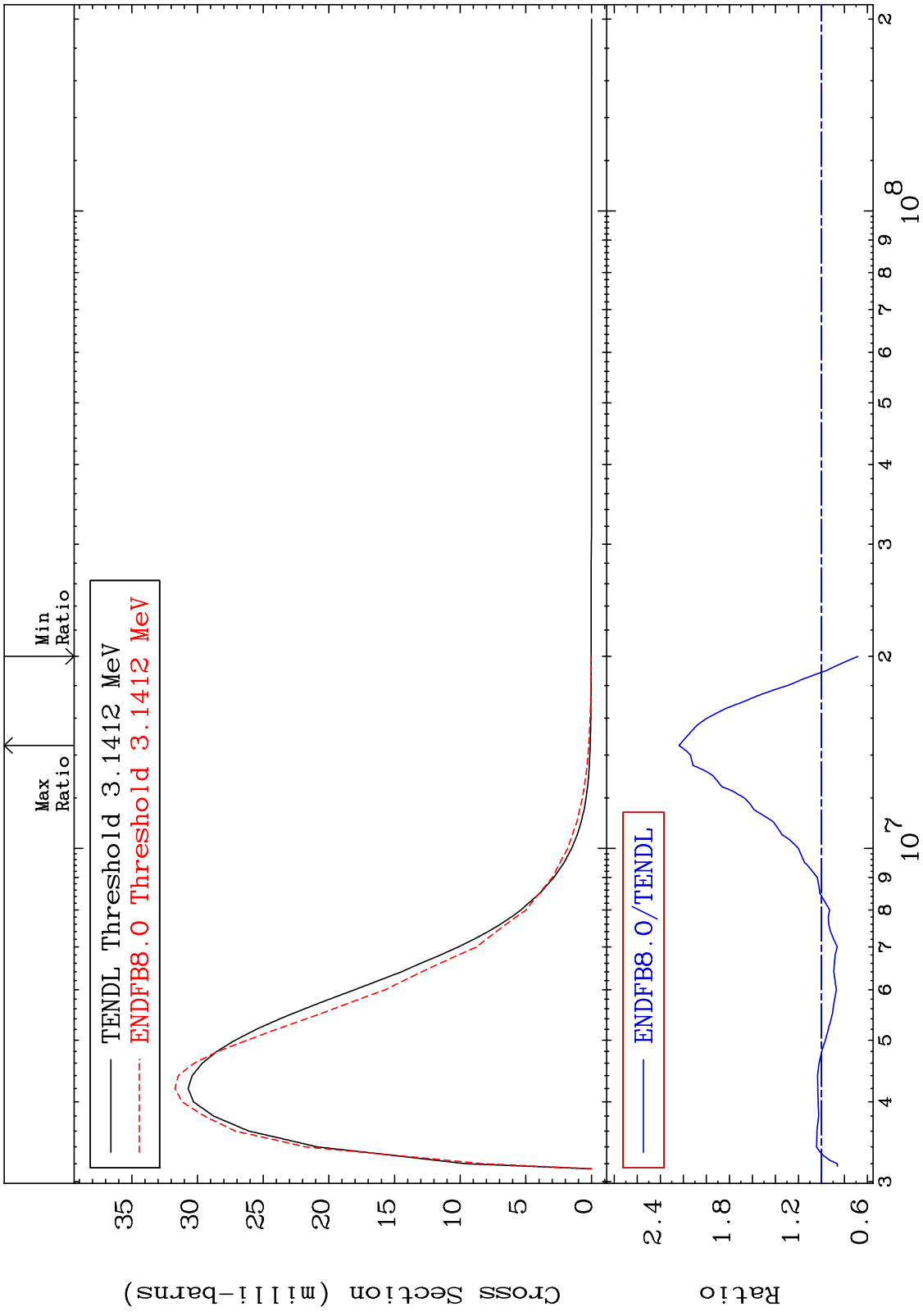
17

18-Ar-39

MAT 1834 MT= 64 (n,n') Level Cross Section -8.758 To 989.4 % 18-Ar-39



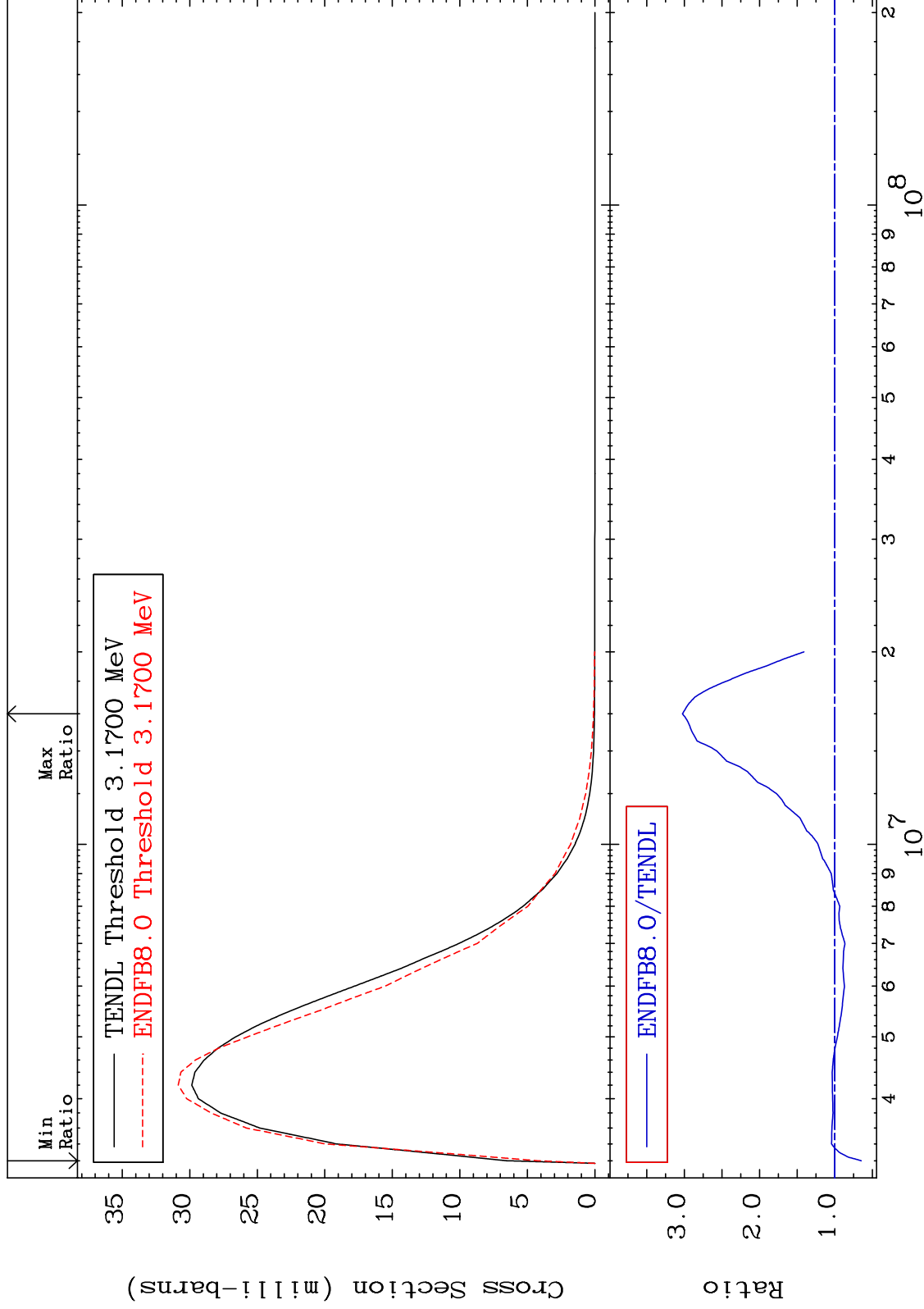
MAT 1834 MT= 65 (n,n') Level Cross Section -31.59 To 123.7 % 18-Ar-39



MAT 1834

MT= 66 (n,n') Level
Cross Section

18-Ar-39
-35.17 To 202.6 %



20

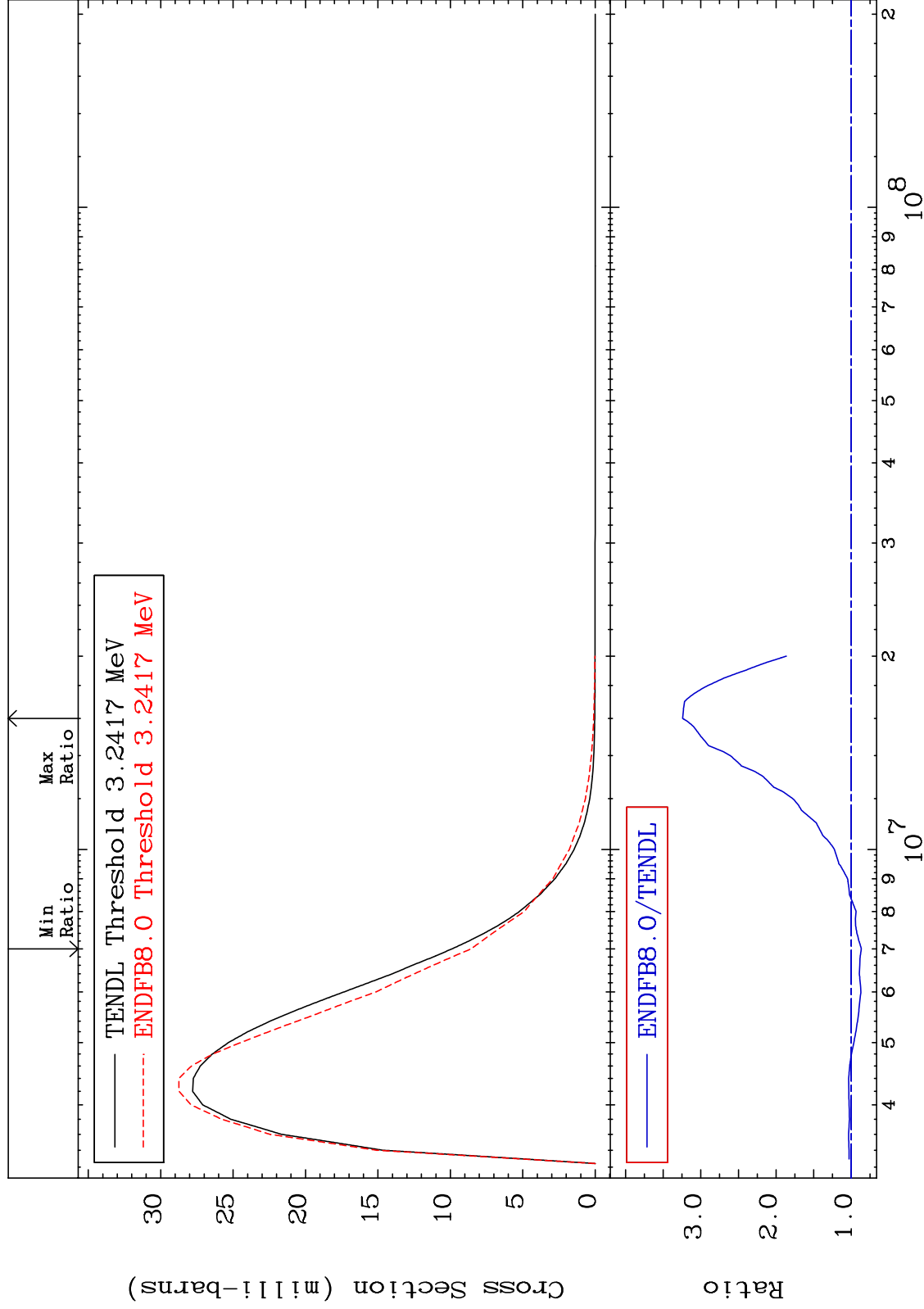
Incident Energy (eV)

18-Ar-39

MAT 1834

MT= 67 (n,n') Level
Cross Section

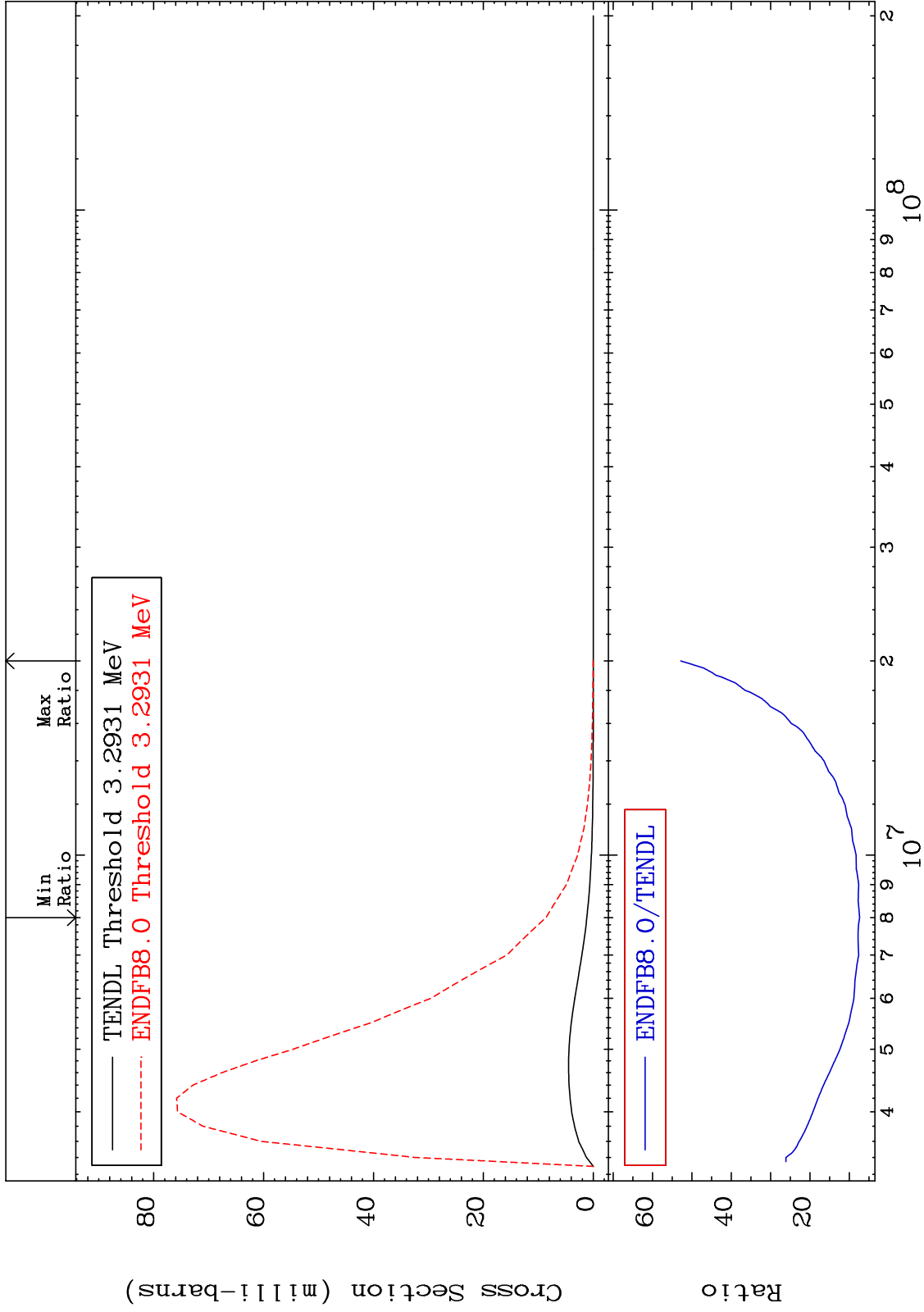
18-Ar-39
-13.34 To 224.1 %



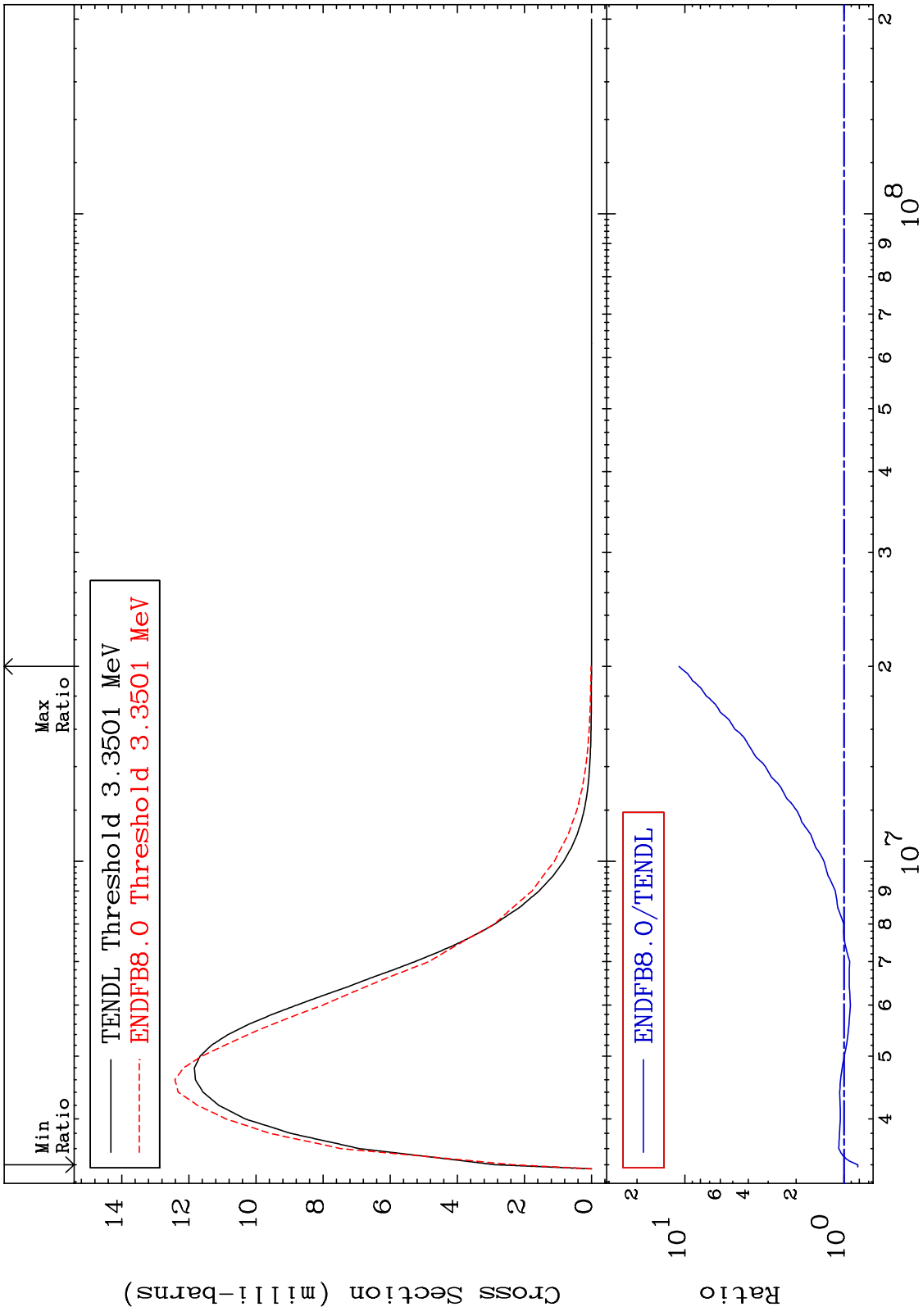
MAT 1834

MT= 68 (n,n') Level
Cross Section

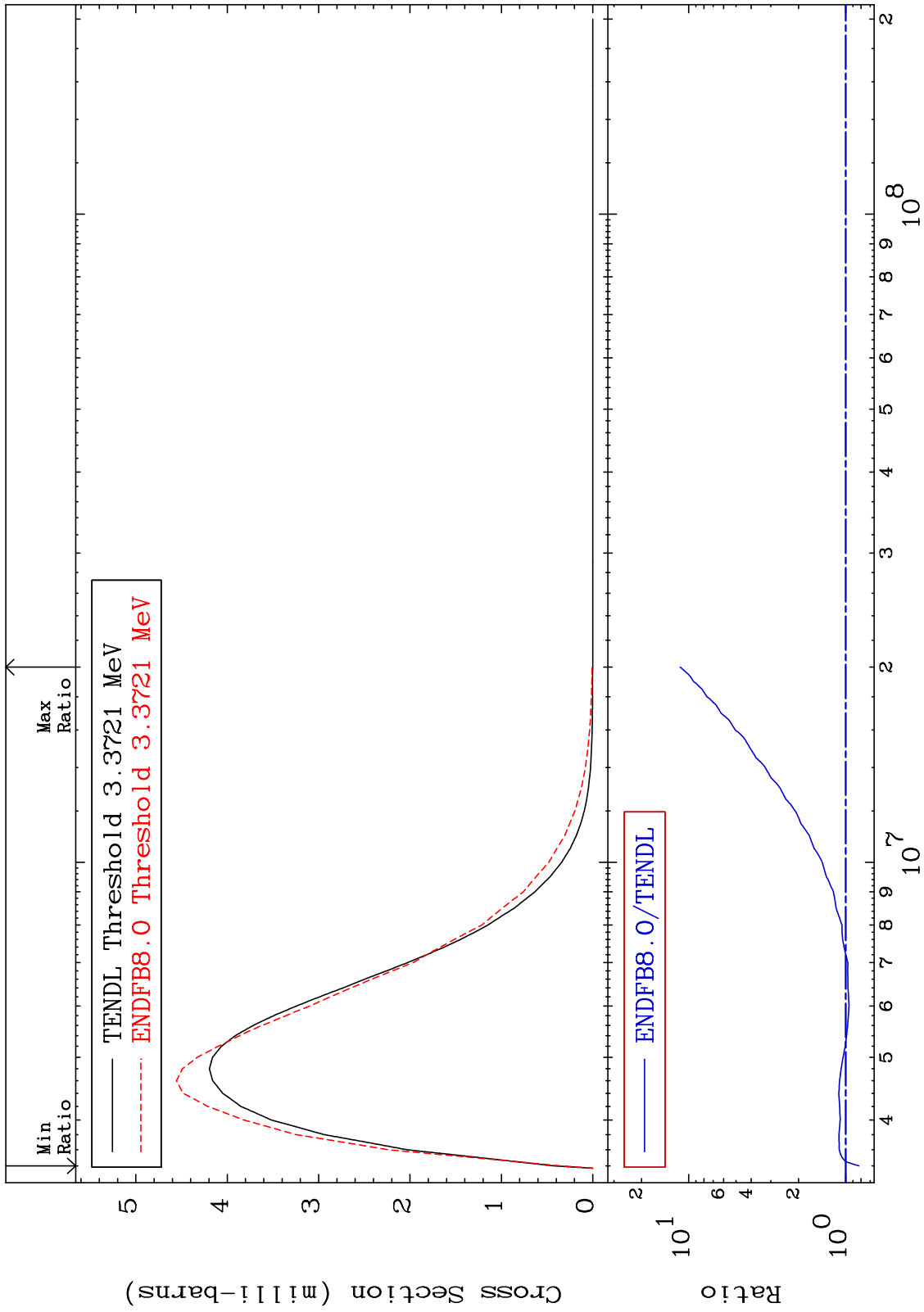
18-Ar-39
636.3 To 5180. %



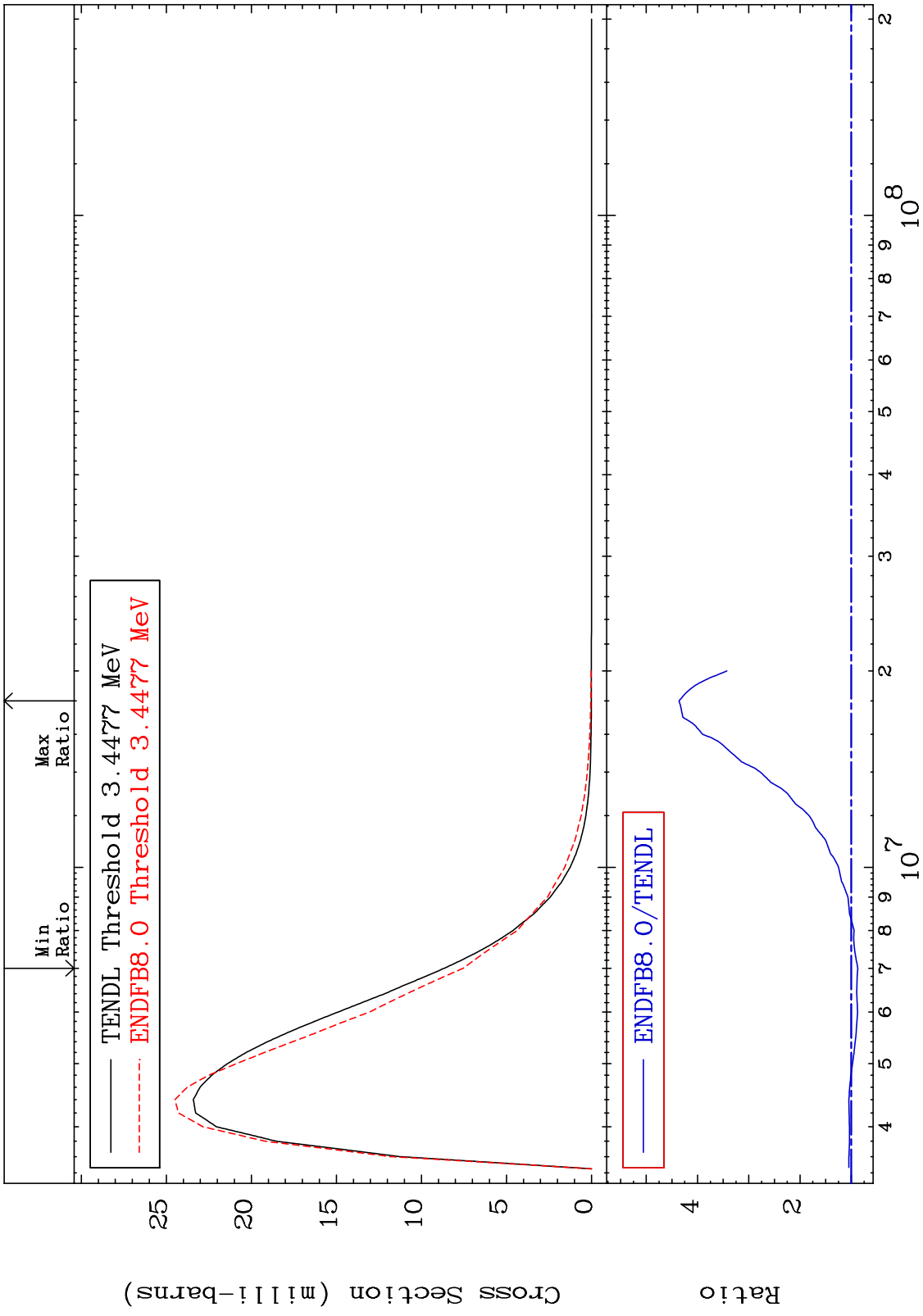
MAT 1834 MT= 69 (n,n') Level Cross Section -18.16 To 989.2 % 18-Ar-39



MAT 1834 MT= 70 (n,n') Level Cross Section -17.50 To 1034. % 18-Ar-39



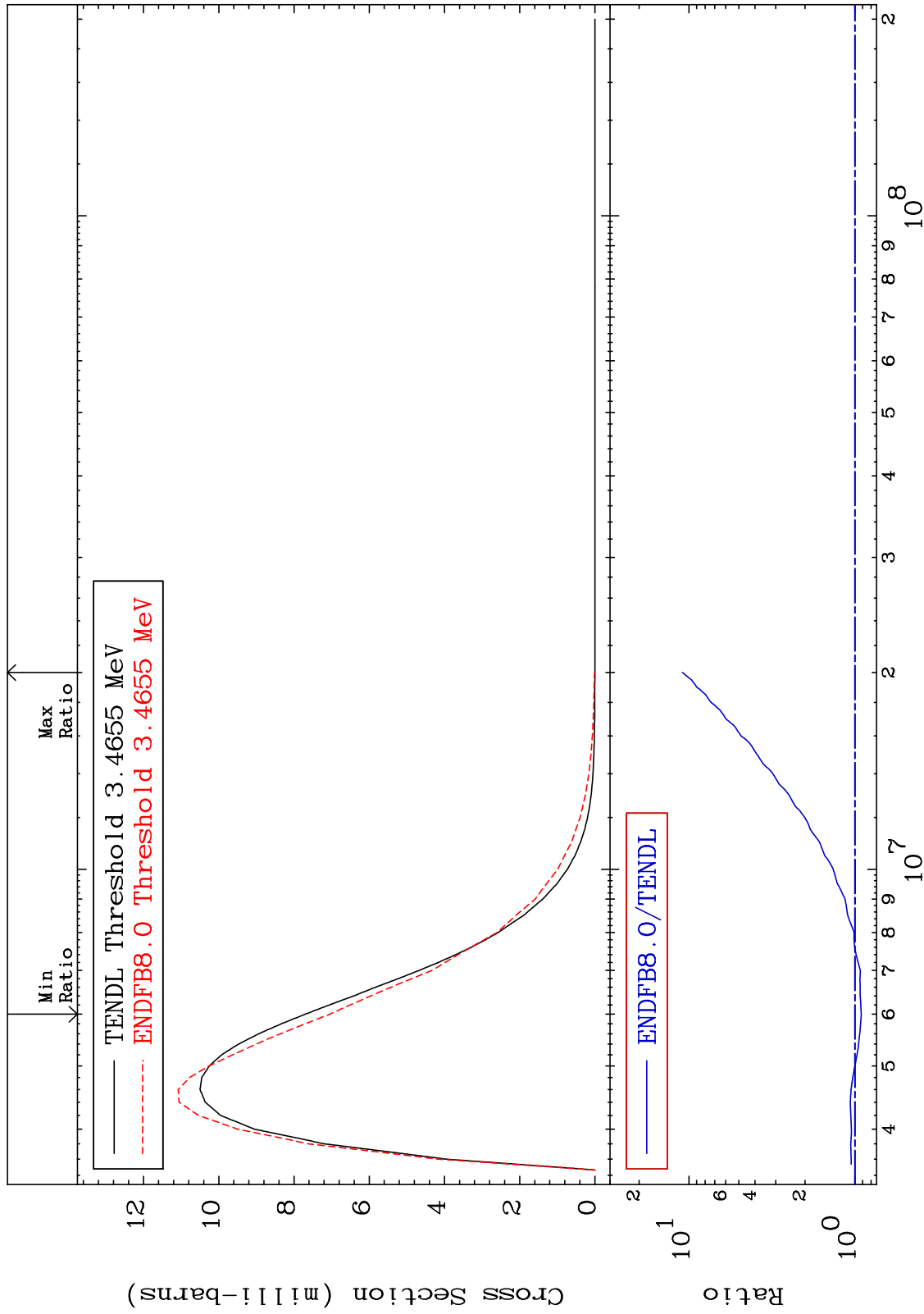
MAT 1834 MT= 71 (n,n') Level Cross Section 18-Ar-39
 -12.77 To 336.1 %



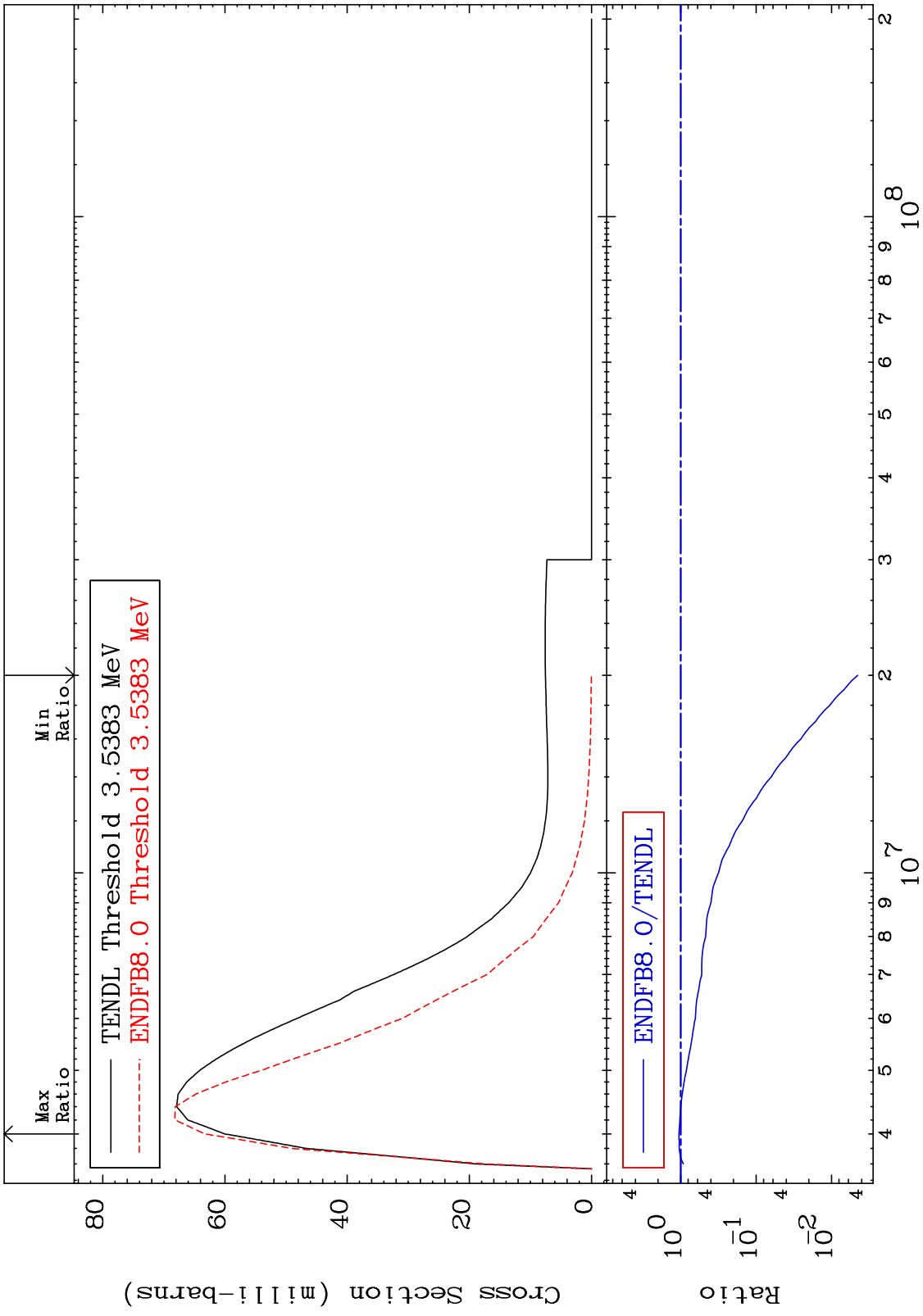
MAT 1834

MT= 72 (n,n') Level
Cross Section

18-Ar-39
-8.471 To 994.2 %



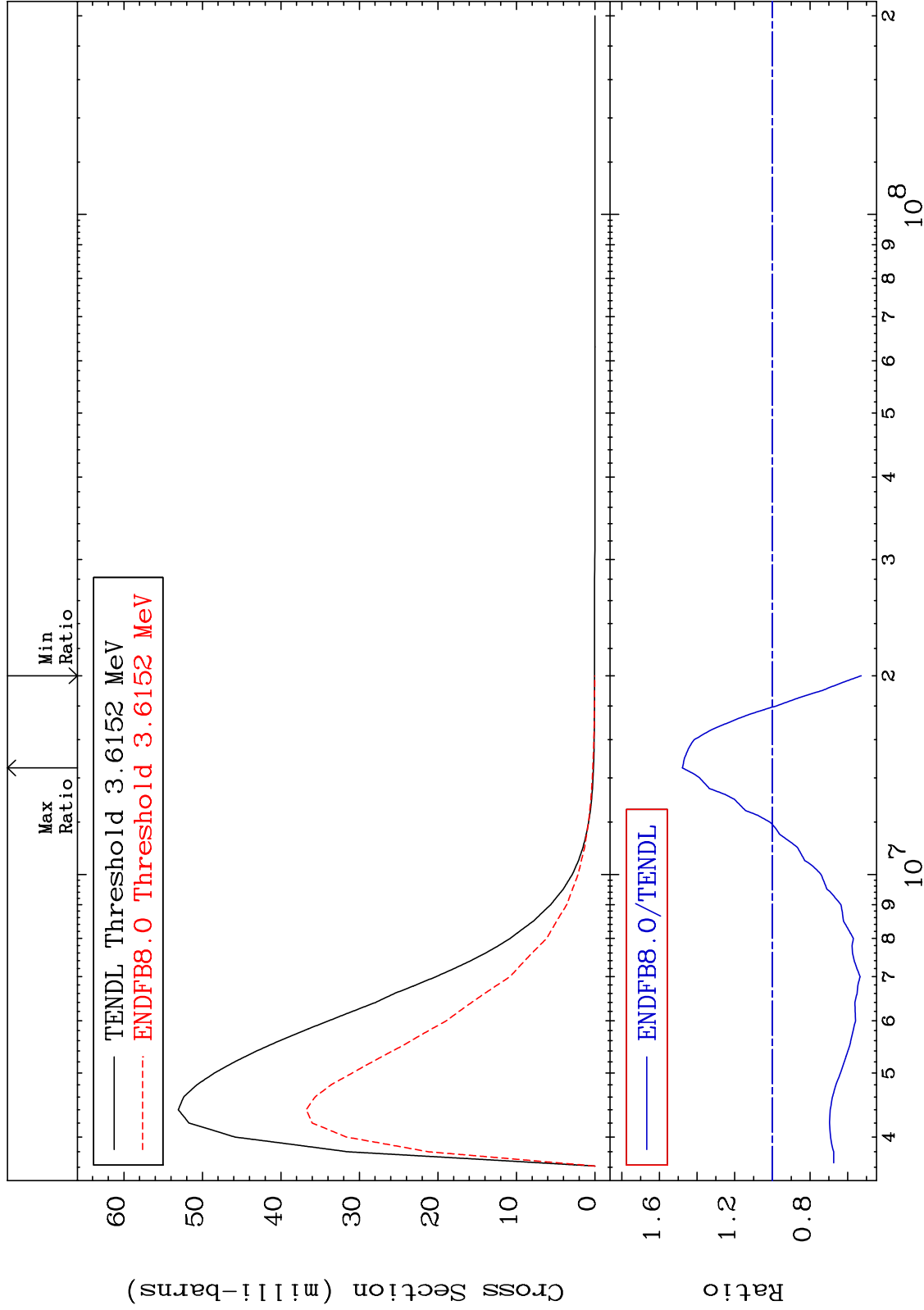
MAT 1834 MT= 73 (n,n') Level Cross Section 18-Ar-39
 -99.55 To 5.459 %



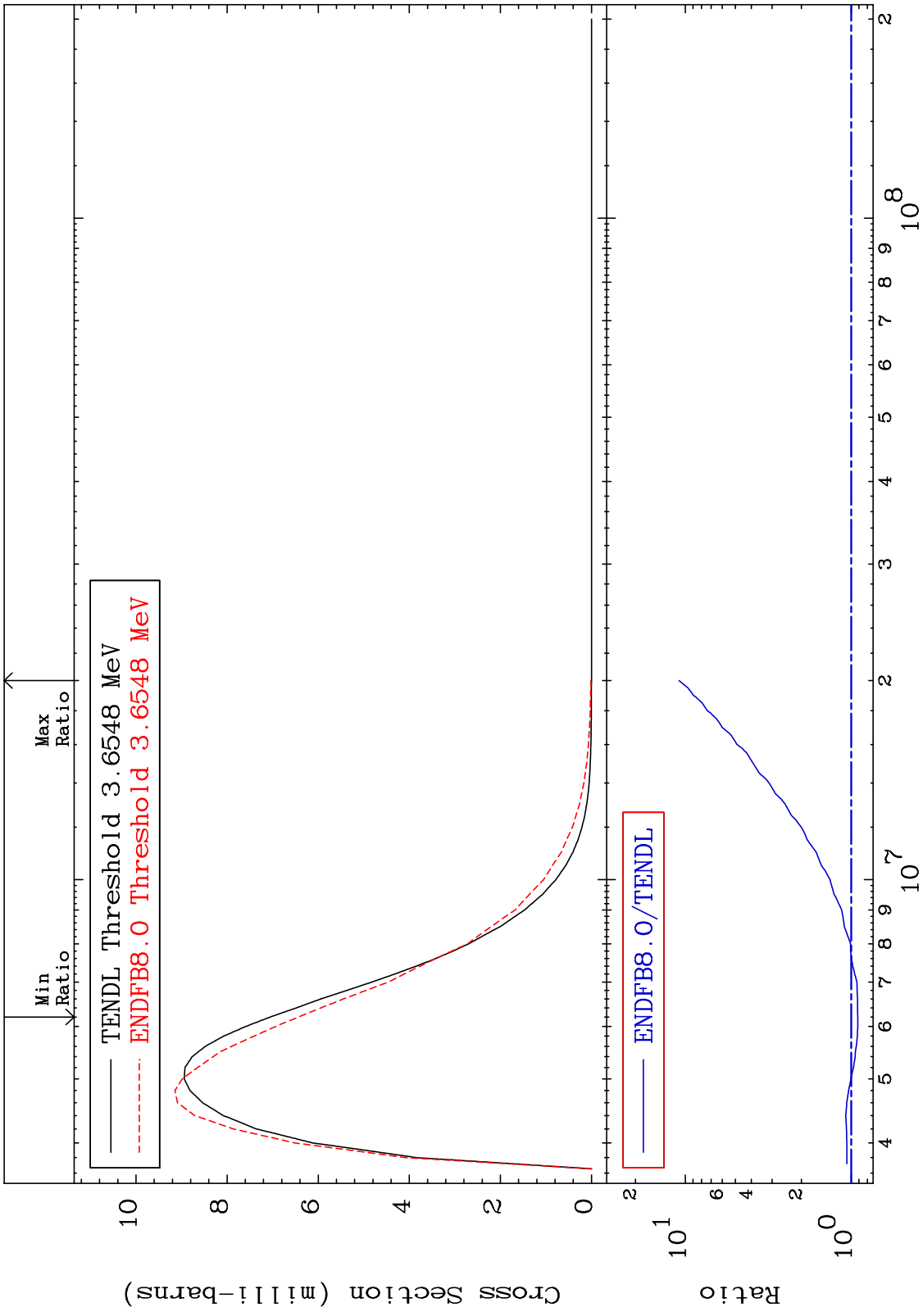
MAT 1834

MT= 74 (n,n') Level
Cross Section

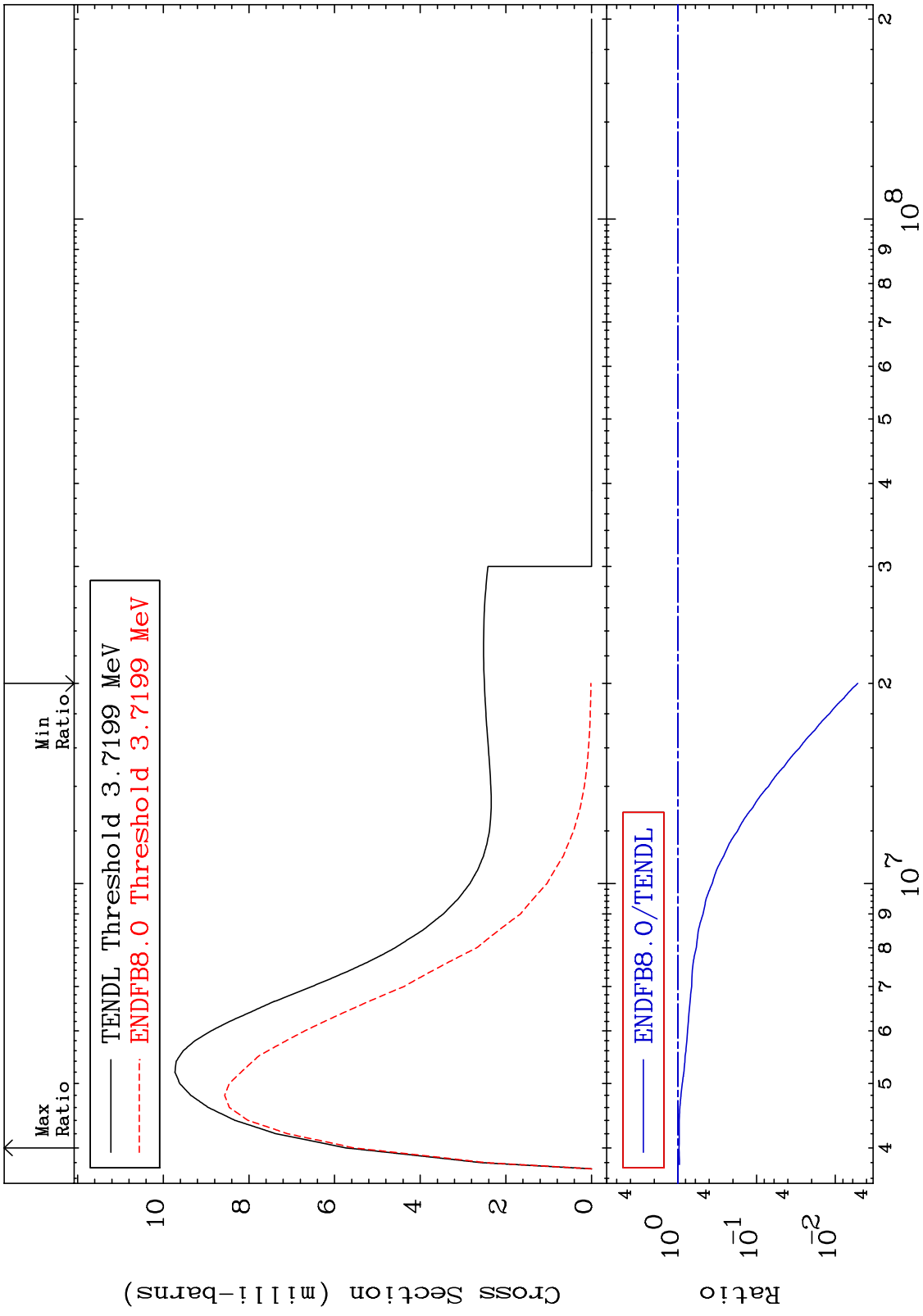
18-Ar-39
-47.25 To 47.79 %



MAT 1834 MT= 75 (n,n') Level Cross Section 18-Ar-39
 -8.751 To 992.6 %



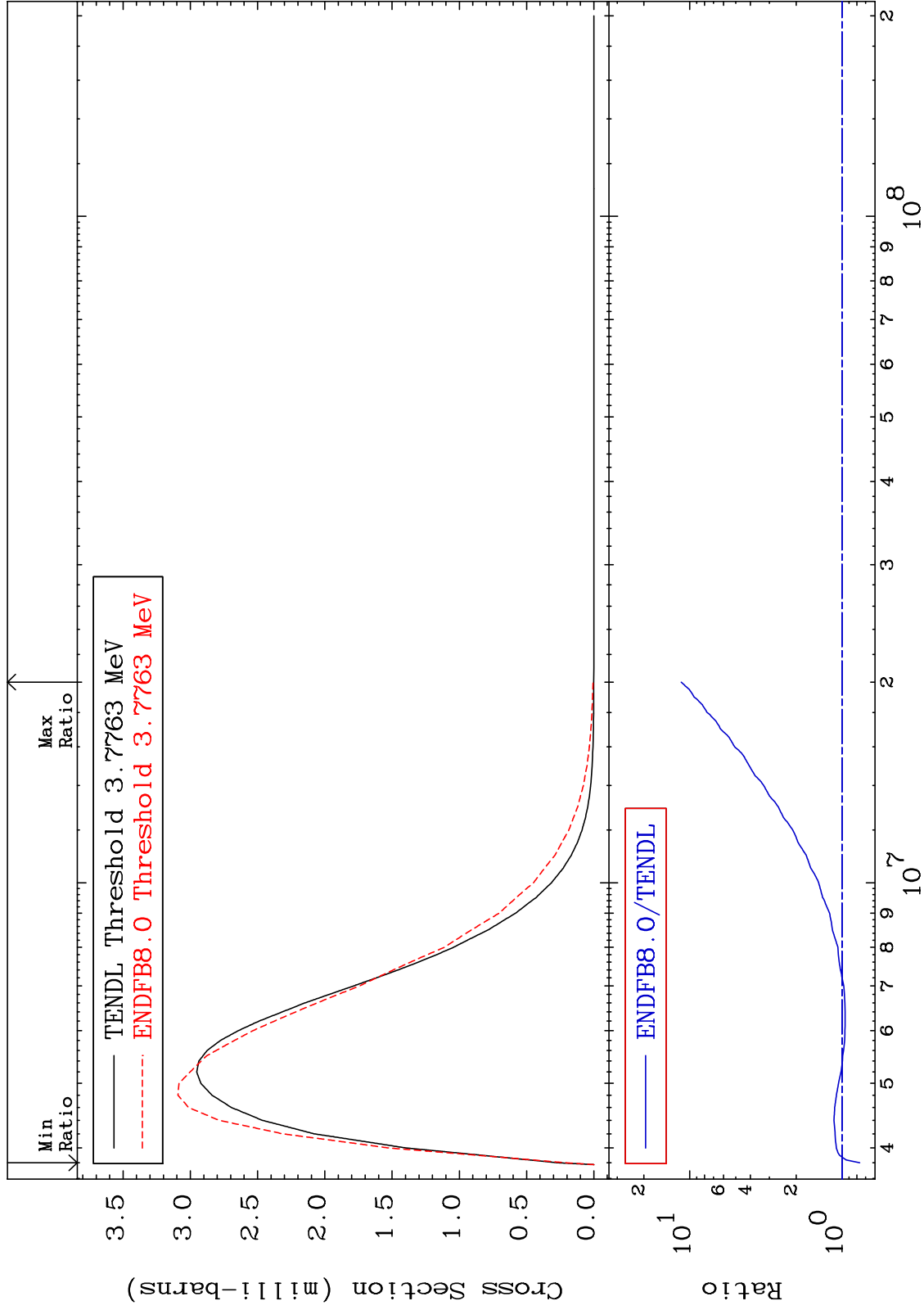
MAT 1834 MT= 76 (n,n') Level Cross Section 18-Ar-39
 -99.48 To -3.238%



MAT 1834

MT= 77 (n,n') Level
Cross Section

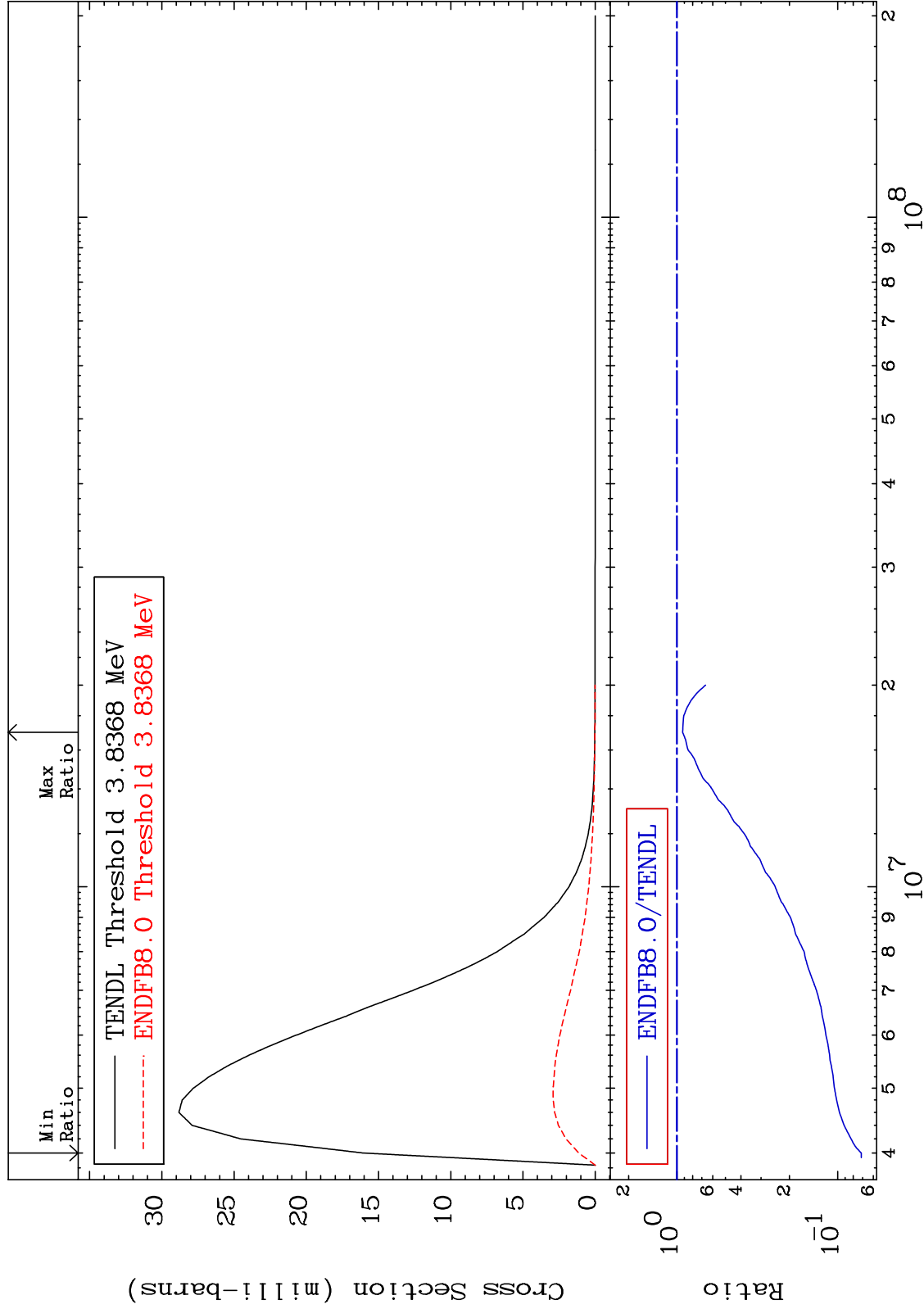
18-Ar-39
-23.44 To 1038. %



MAT 1834

MT= 78 (n,n') Level
Cross Section

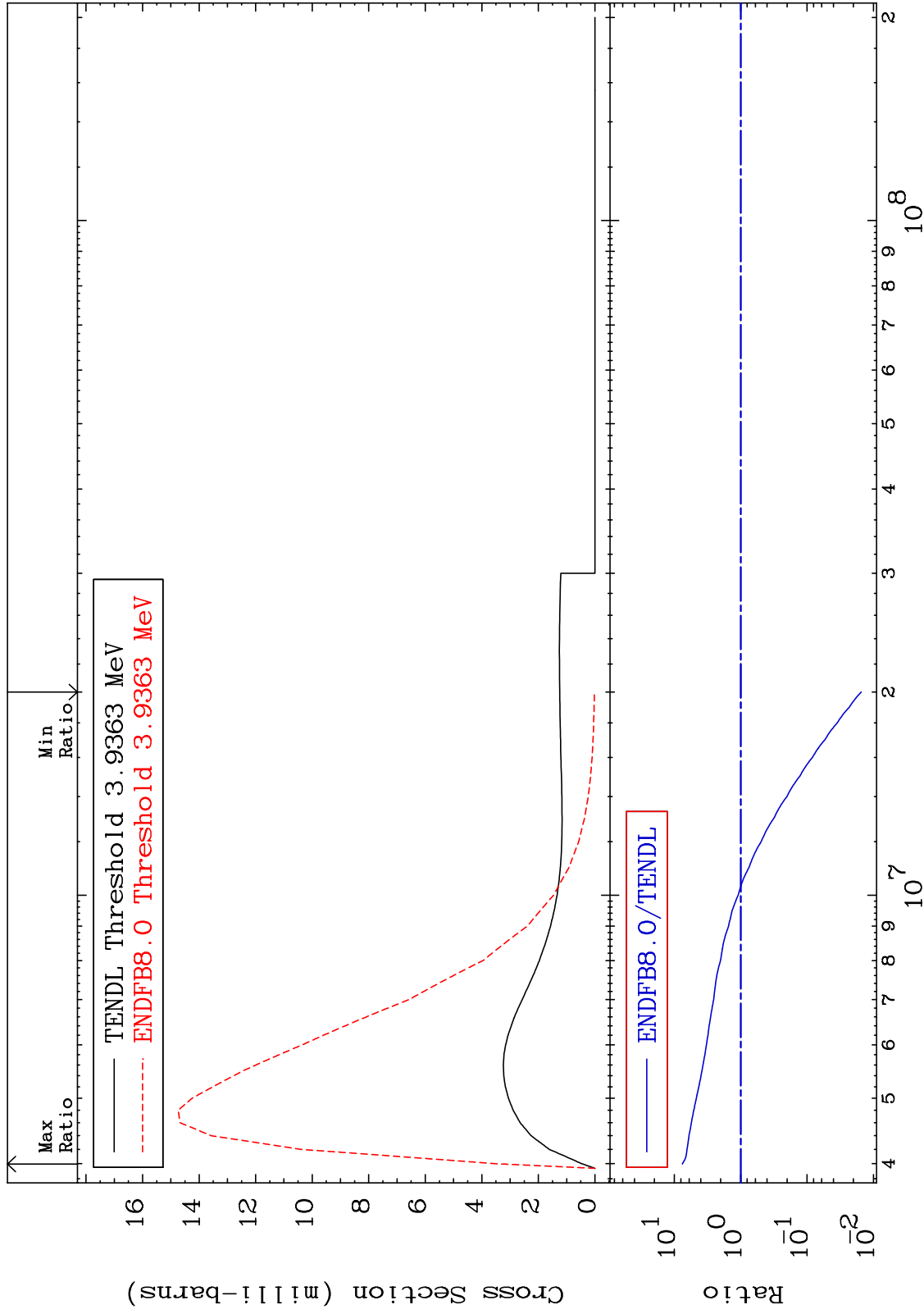
18-Ar-39
-92.87 To -7.797%



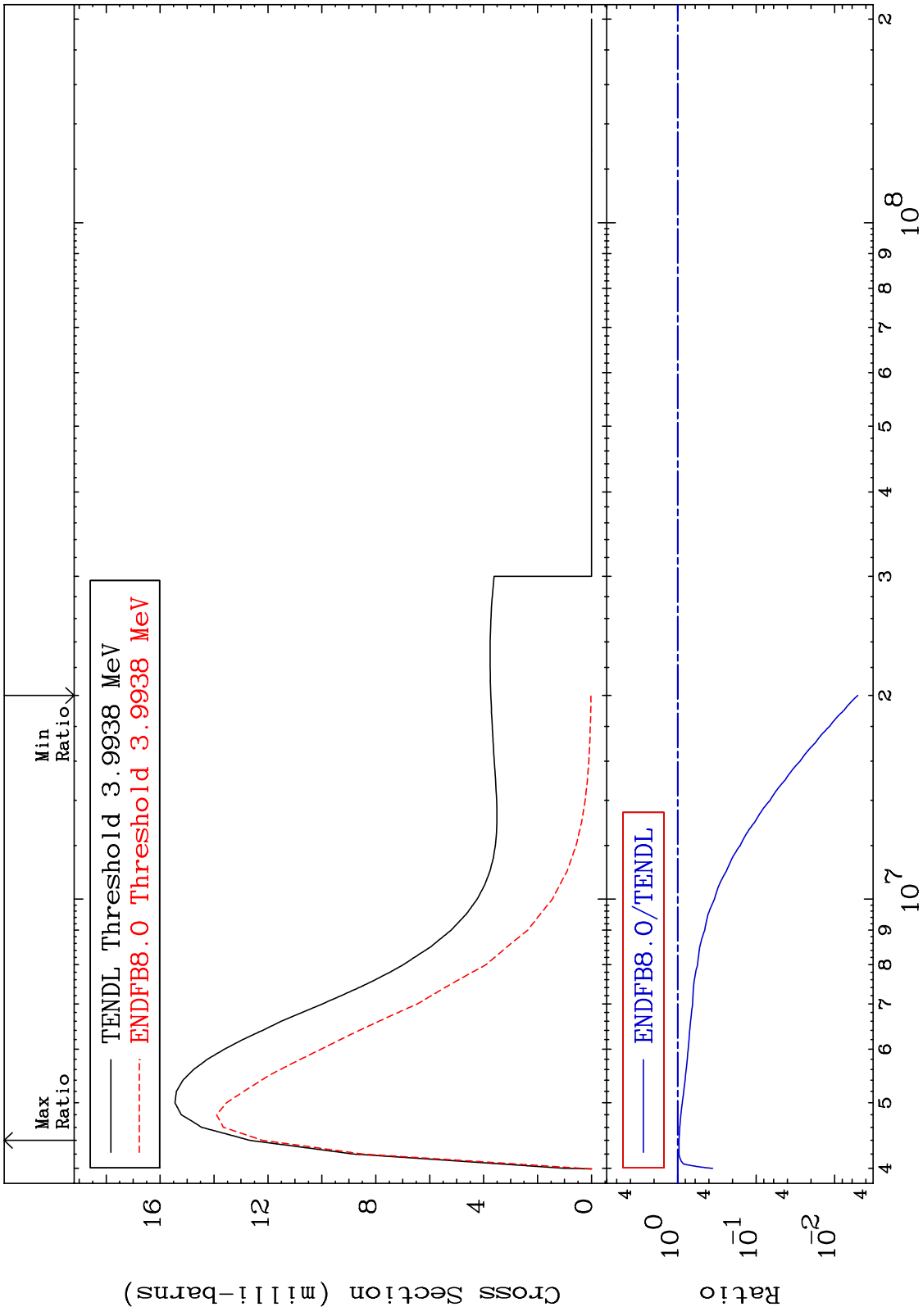
MAT 1834

MT= 79 (n,n') Level
Cross Section

18-Ar-39
-98.48 To 654.7 %



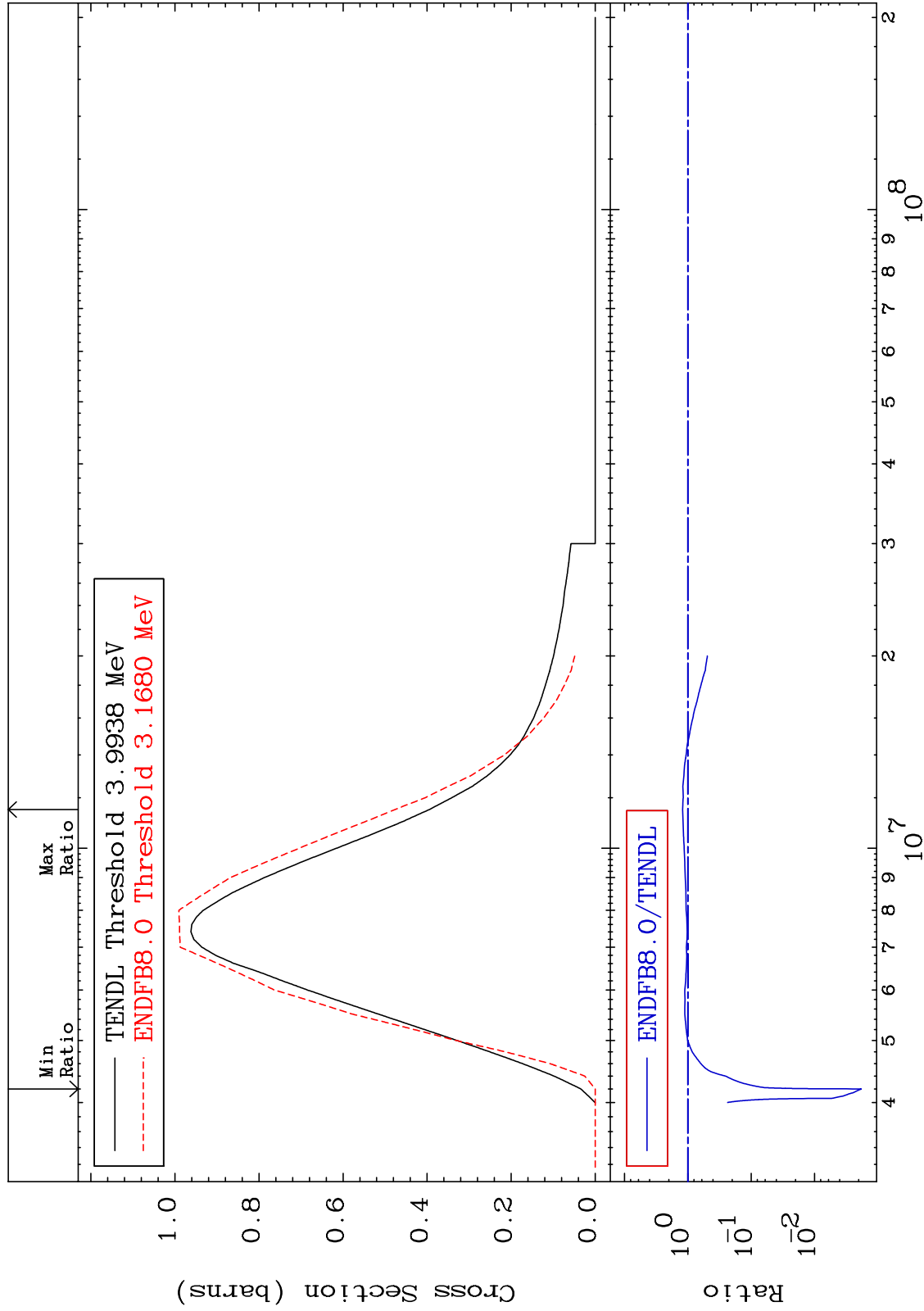
MAT 1834 MT= 80 (n,n') Level Cross Section 18-Ar-39
 -99.49 To -3.708%



MAT 1834

(n, n') Continuum
Cross Section

18-Ar-39
-99.82 To 20.70 %



35

18-Ar-39

18-Ar-39

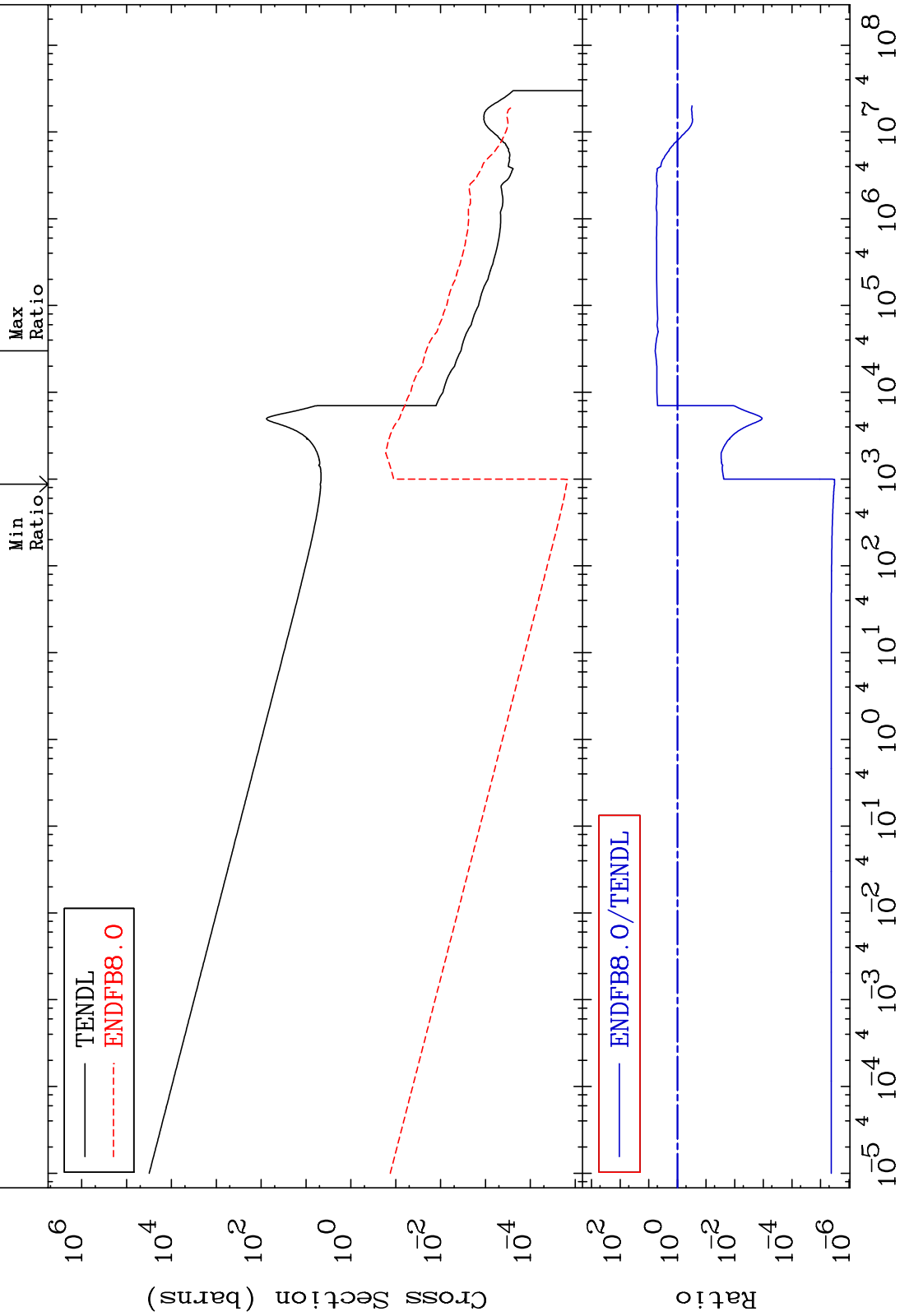
MAT 1834

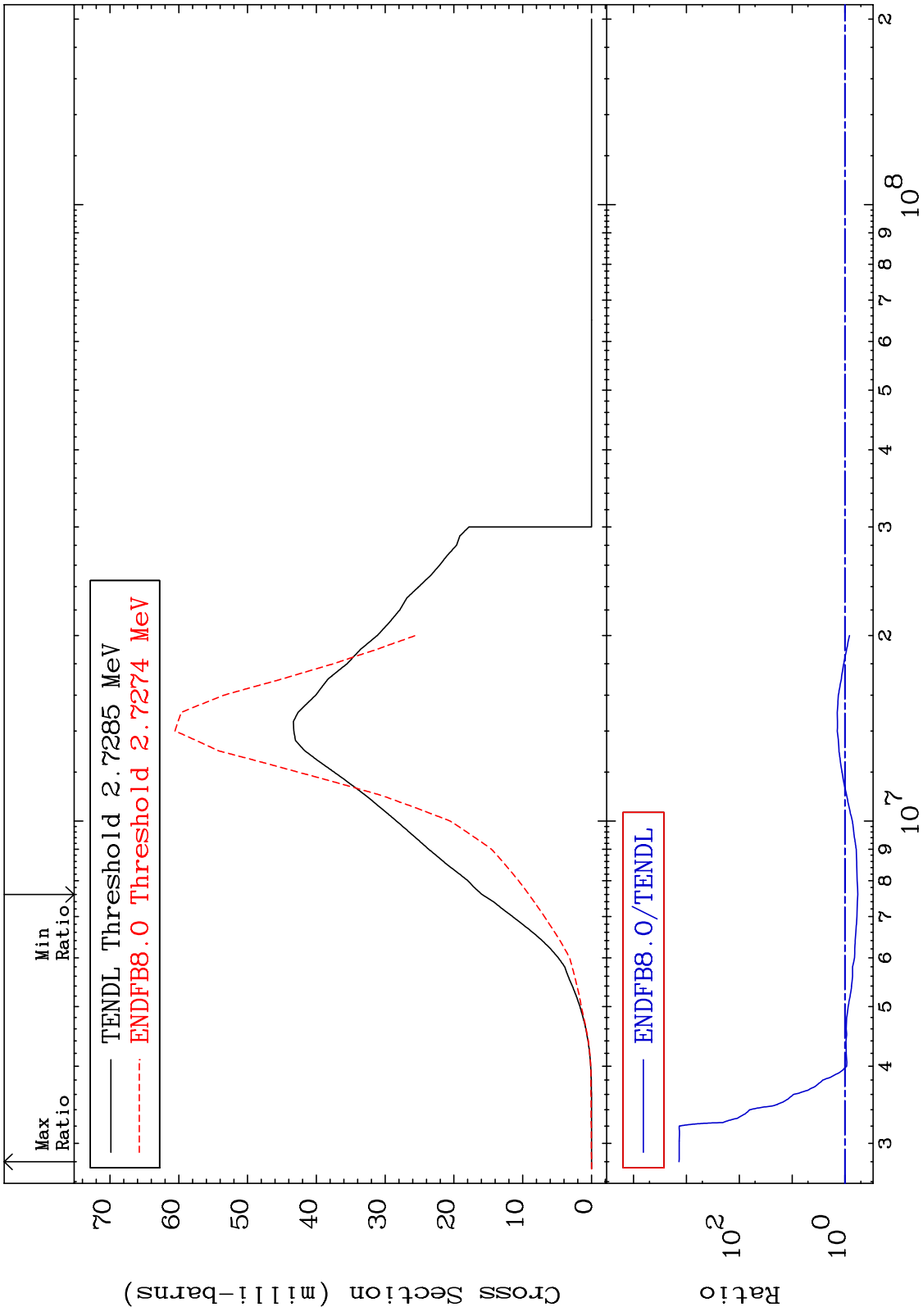
(n, γ)

18-Ar-39

-100.0 To 497.9 %

Cross Section





MAT 1834

(n, α)

18-Ar-39

Cross Section

26.25 To 9999. %

Max Ratio

Min Ratio

— TENDL
- - - ENDFB8.0

— ENDFB8.0/TENDL

10^4

10^2

10^0

10^{-2}

10^{-4}

10^{-6}

10^4

10^2

10^0

Cross Section (barns)

Ratio

10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8

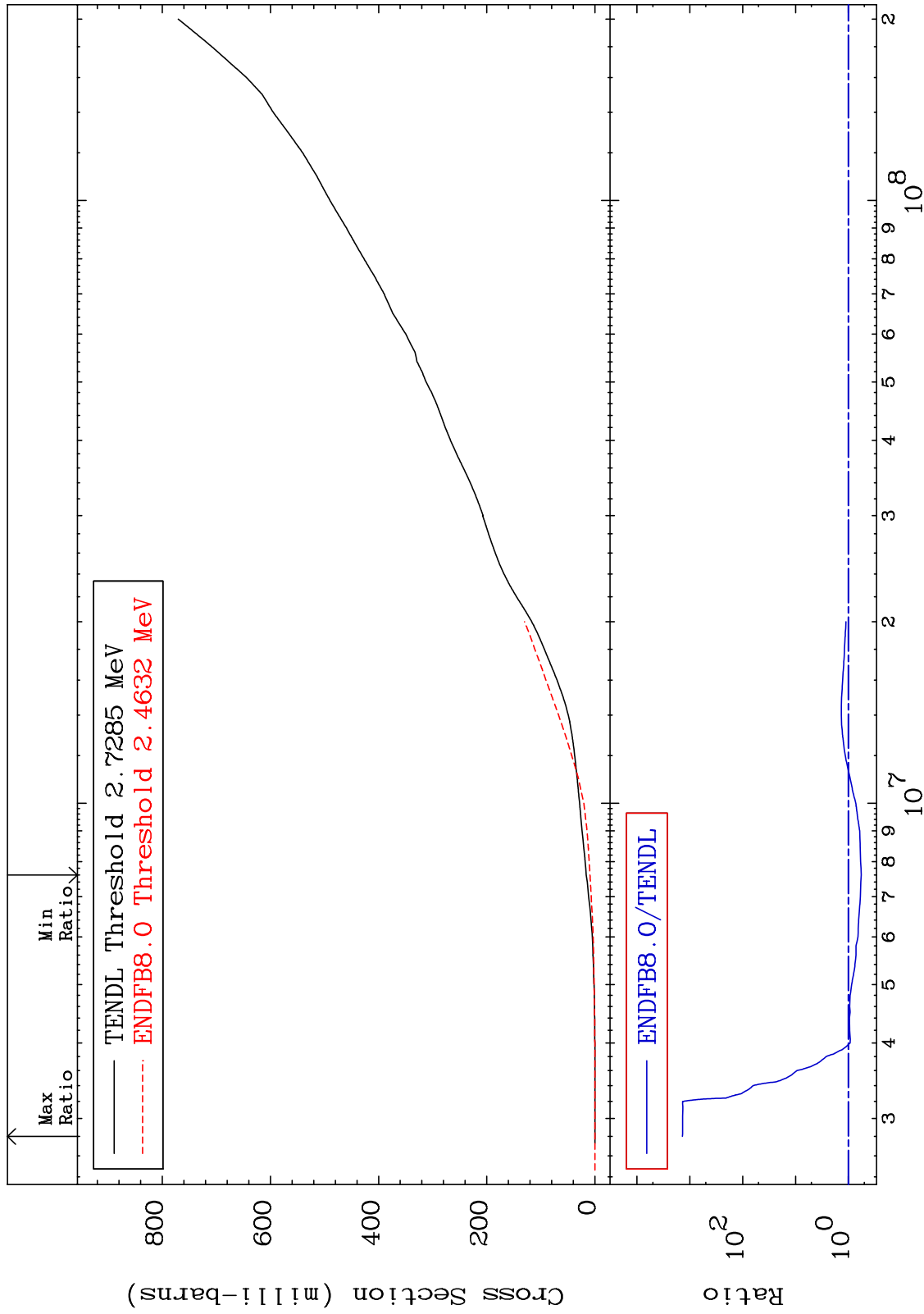
Incident Energy (eV)

18-Ar-39

MAT 1834

Hydrogen Production Cross Section

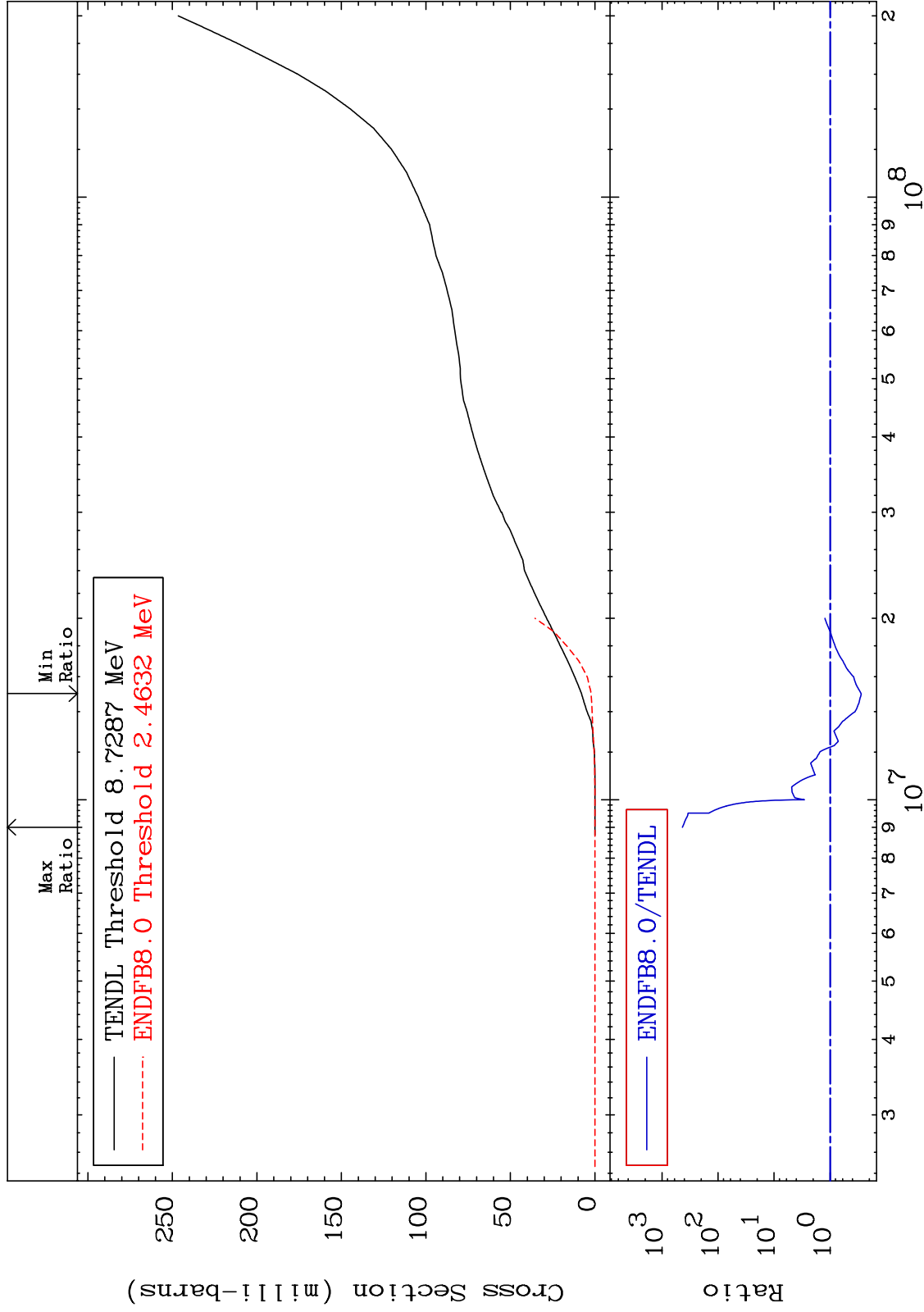
18-Ar-39
-42.82 To 9999. %



MAT 1834

Deuterium Production
Cross Section

18-Ar-39
-72.21 To 9999. %



40

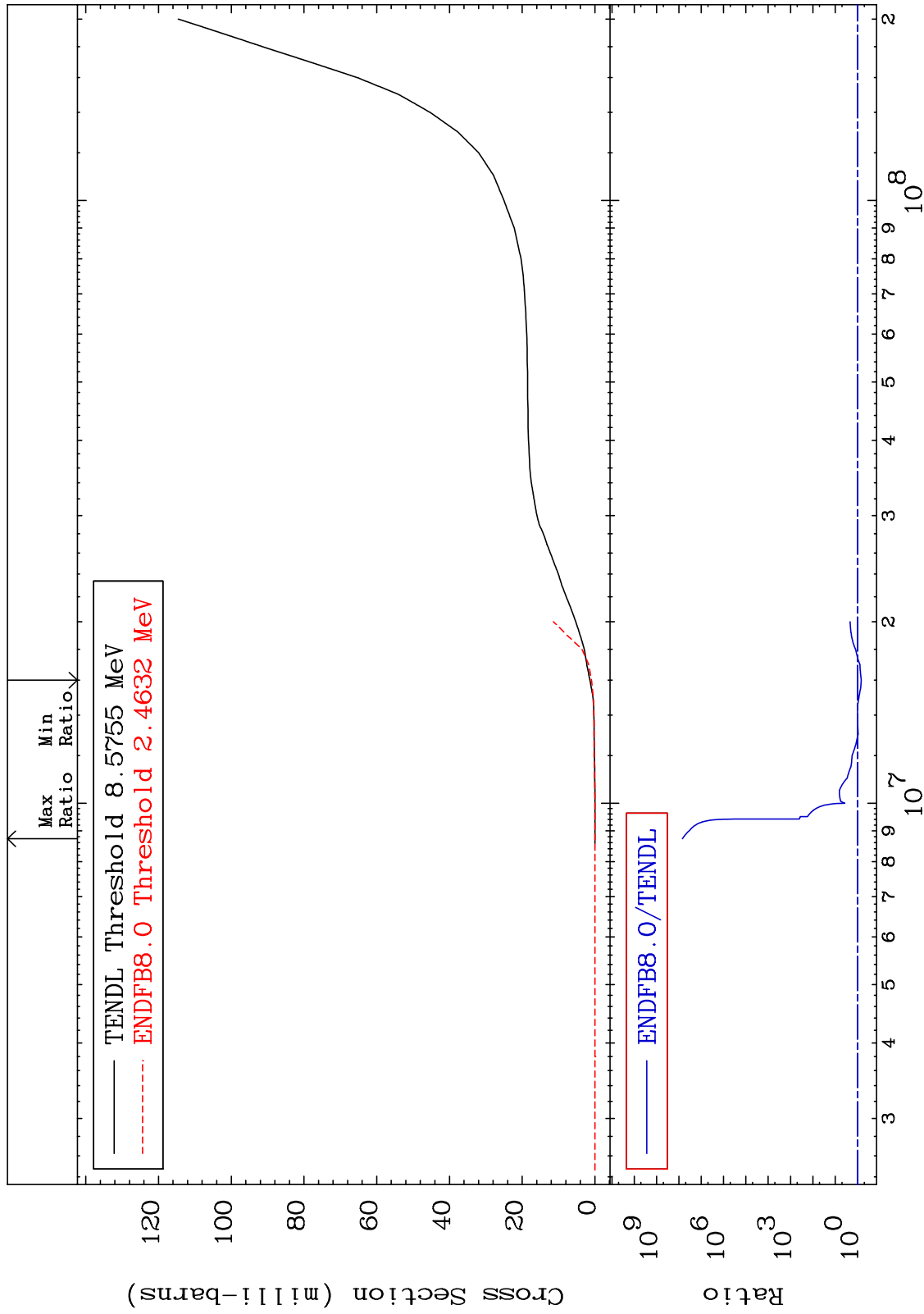
Incident Energy (eV)

18-Ar-39

MAT 1834

Tritium Production
Cross Section

18-Ar-39
-32.24 To 9999. %



41

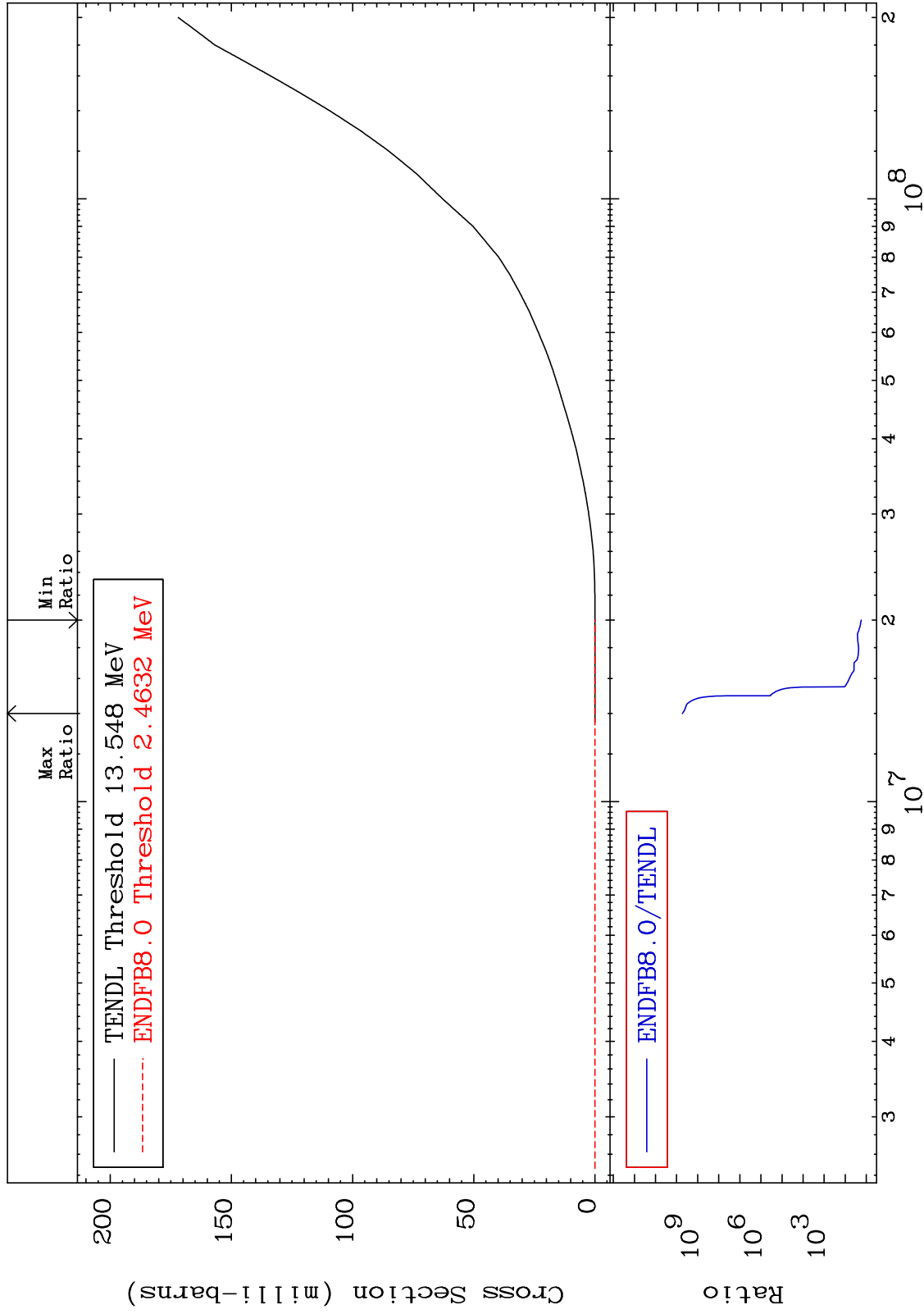
Incident Energy (eV)

18-Ar-39

MAT 1834

He-3 Production
Cross Section

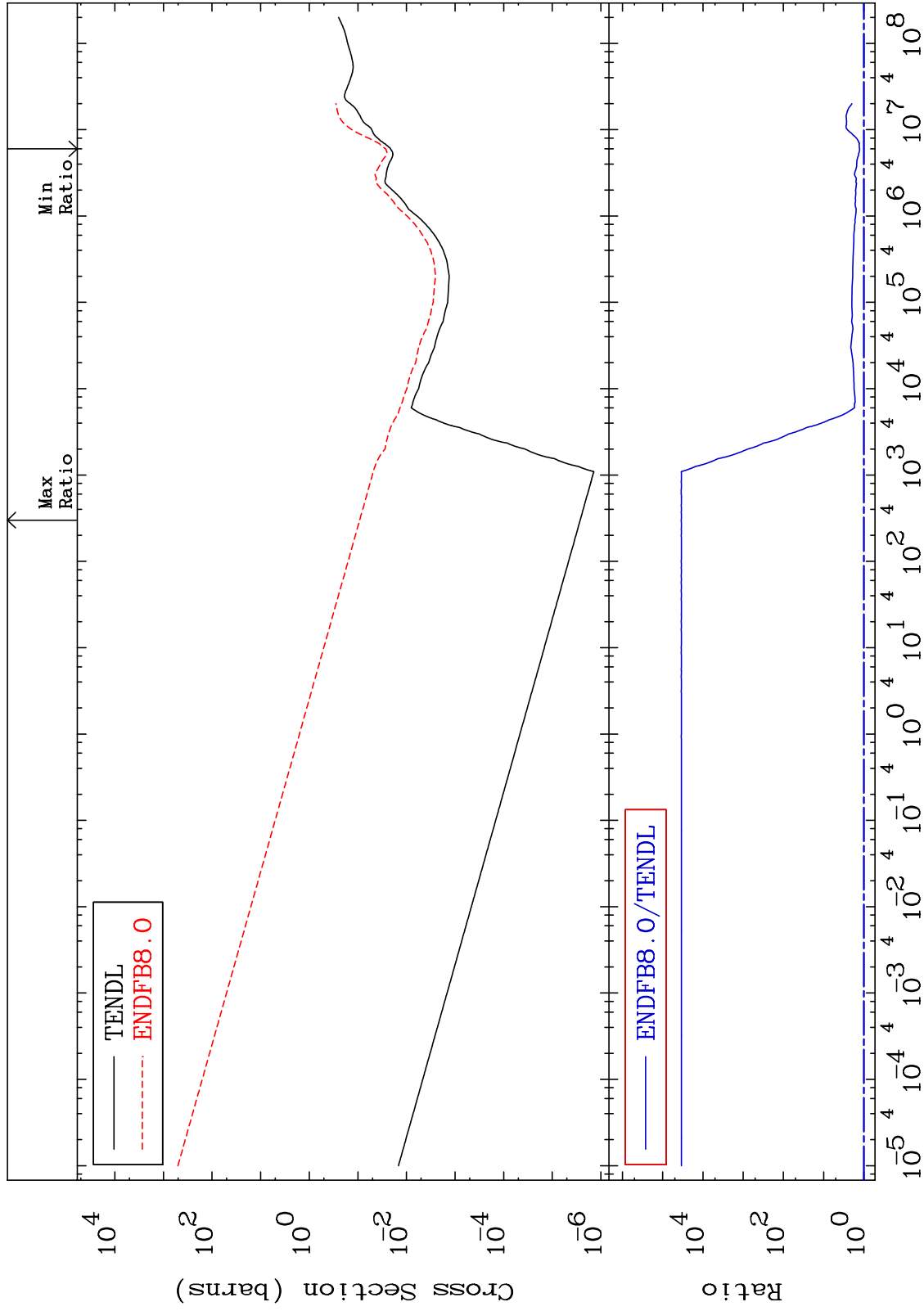
18-Ar-39
1628. To 9999. %



MAT 1834

He-4 Production
Cross Section

18-Ar-39
26.25 To 9999. %

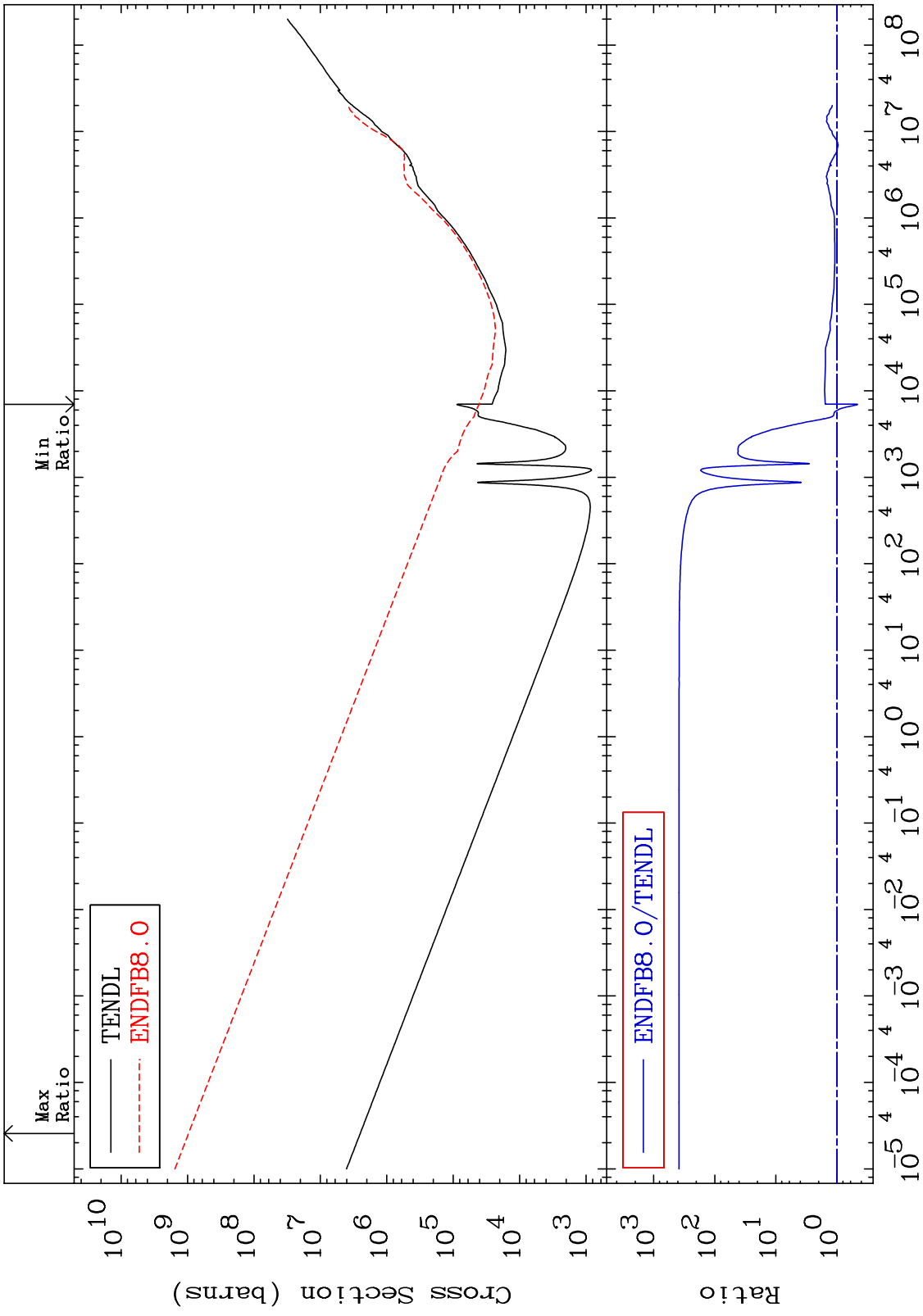


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Incident Energy (eV)

18-Ar-39

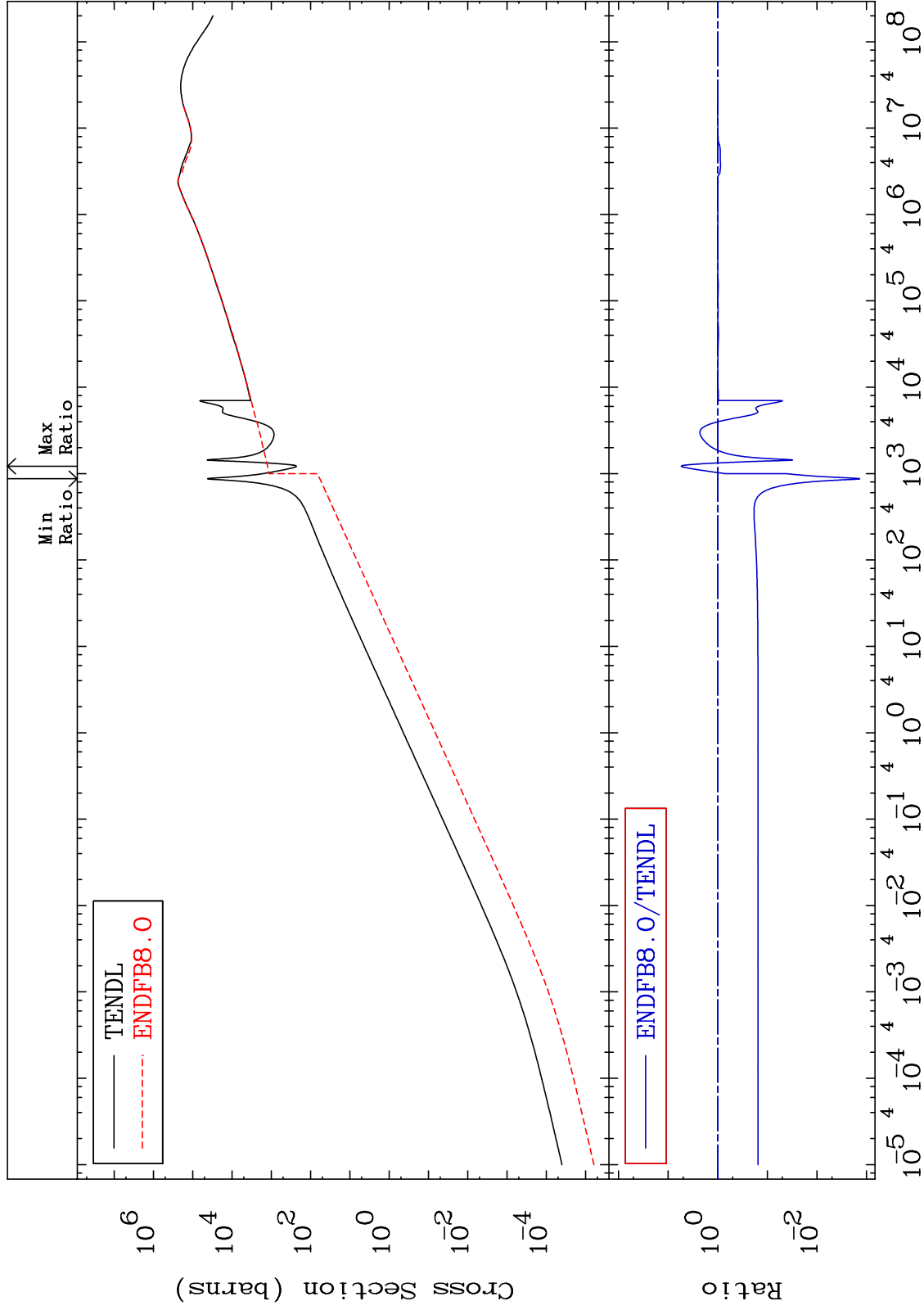
MAT 1834 Kerma total (eV-barns) 18-Ar-39
 Cross Section -54.34 To 9999. %



MAT 1834

Kerma elastic
Cross Section

18-Ar-39
-99.86 To 444.3 %

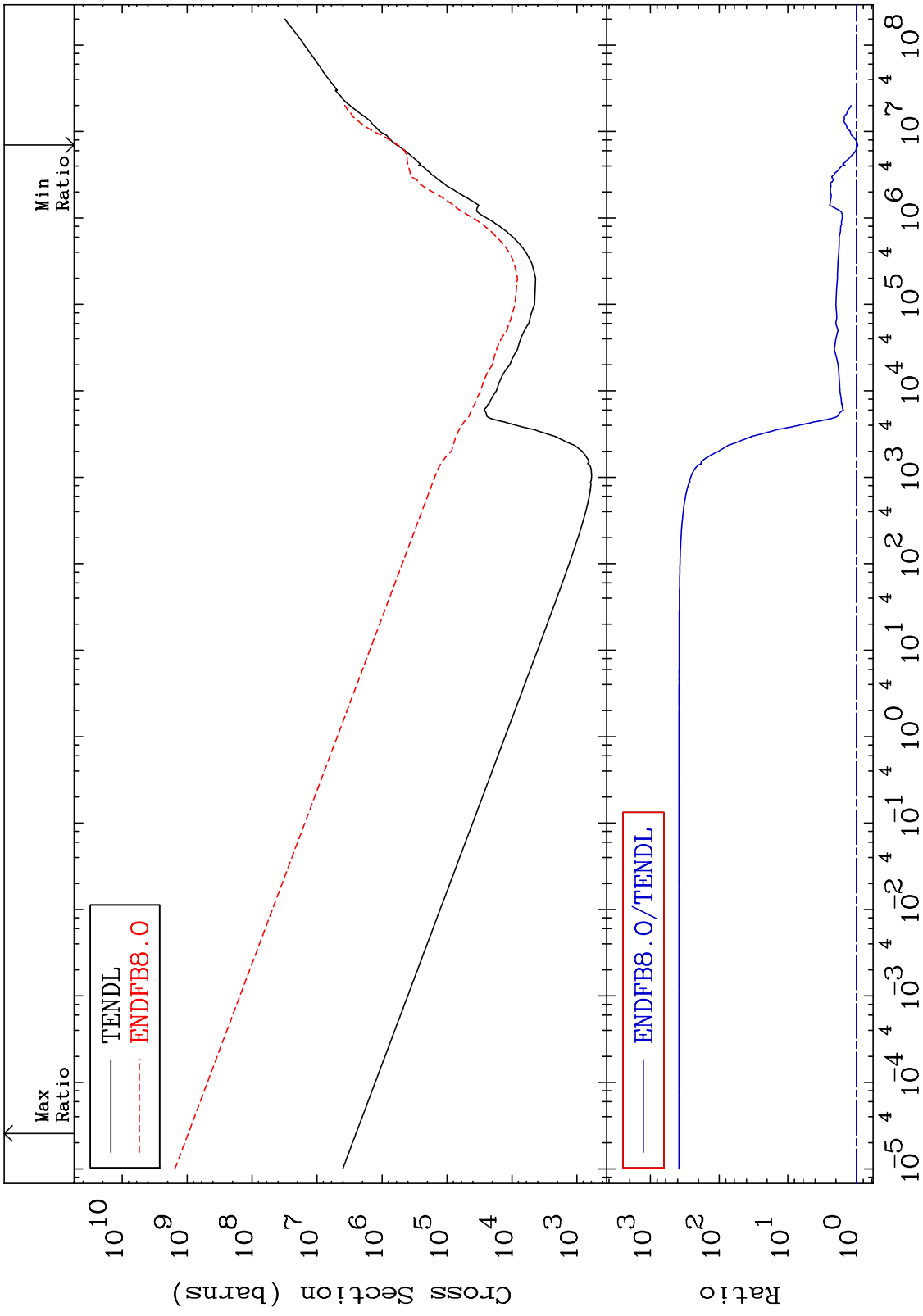


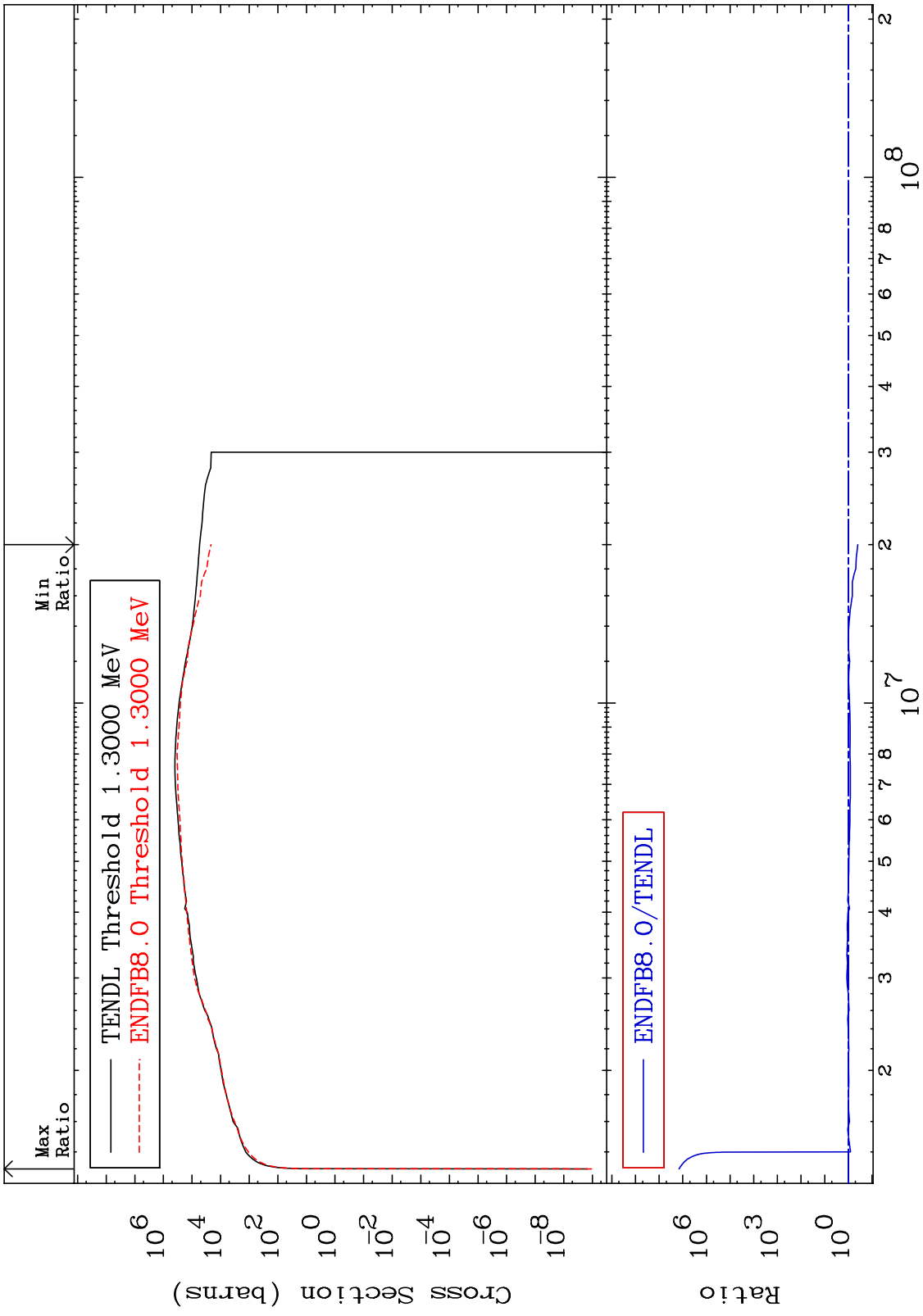
45

Incident Energy (eV)

18-Ar-39

MAT 1834 Kerma non-elastic (all but mt2) 18-Ar-39
 Cross Section -4.379 To 9999. %

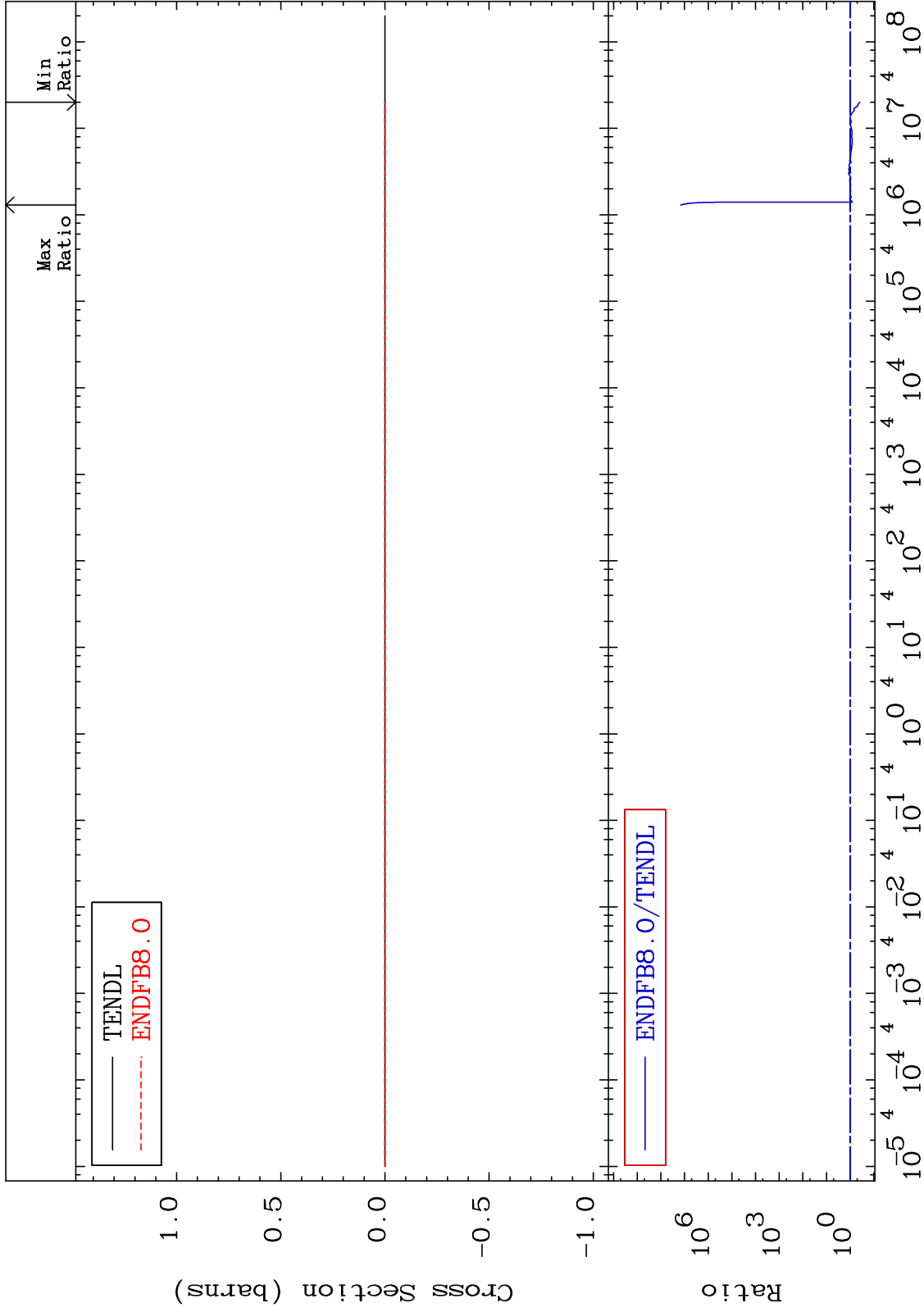




MAT 1834

Kerma fission (mt18 or mt19-20-21-38)
Cross Section

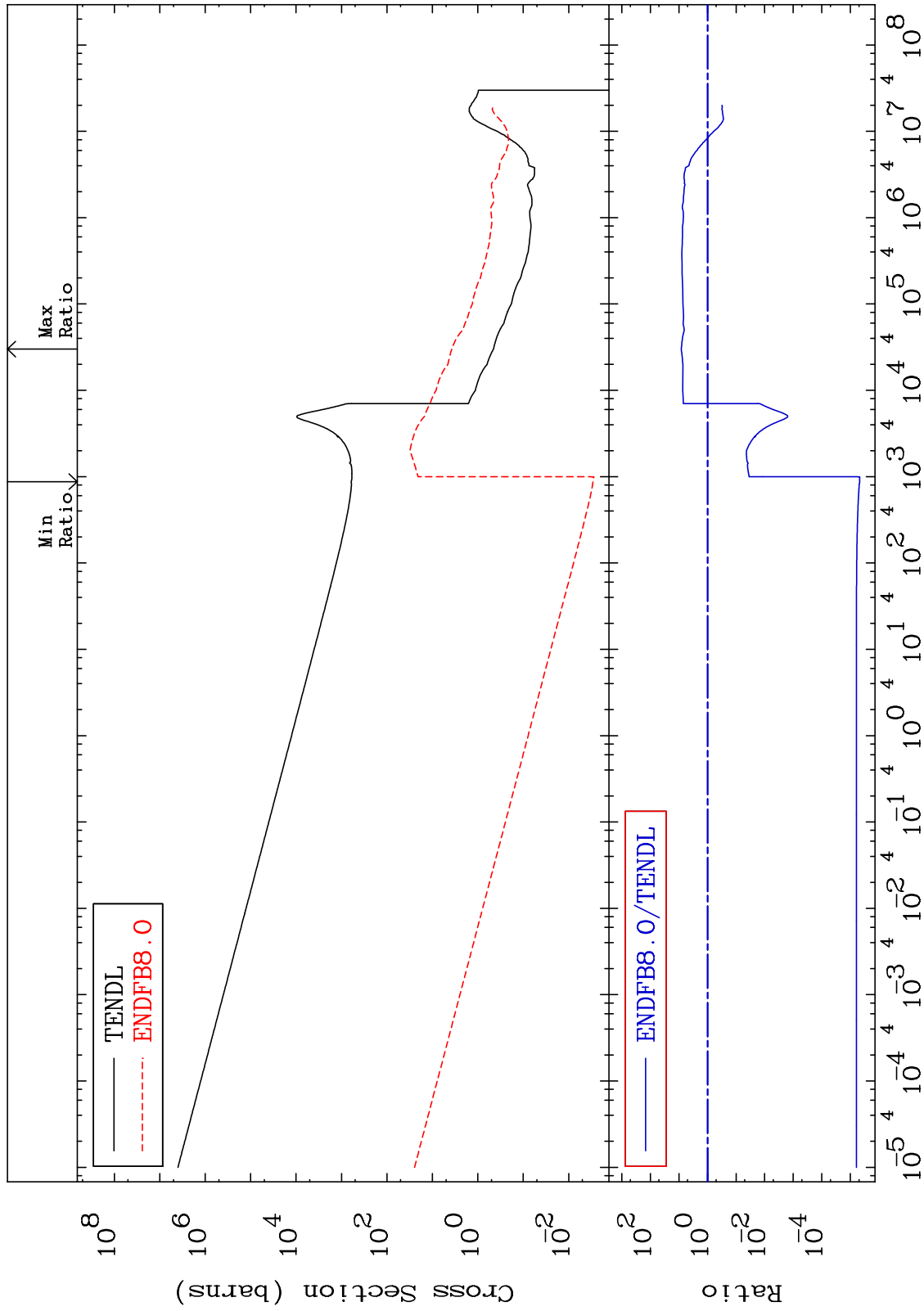
18-Ar-39
-60.25 To 9999. %



MAT 1834

Kerma capture (mt102)
Cross Section

18-Ar-39
-100.0 To 728.6 %



49

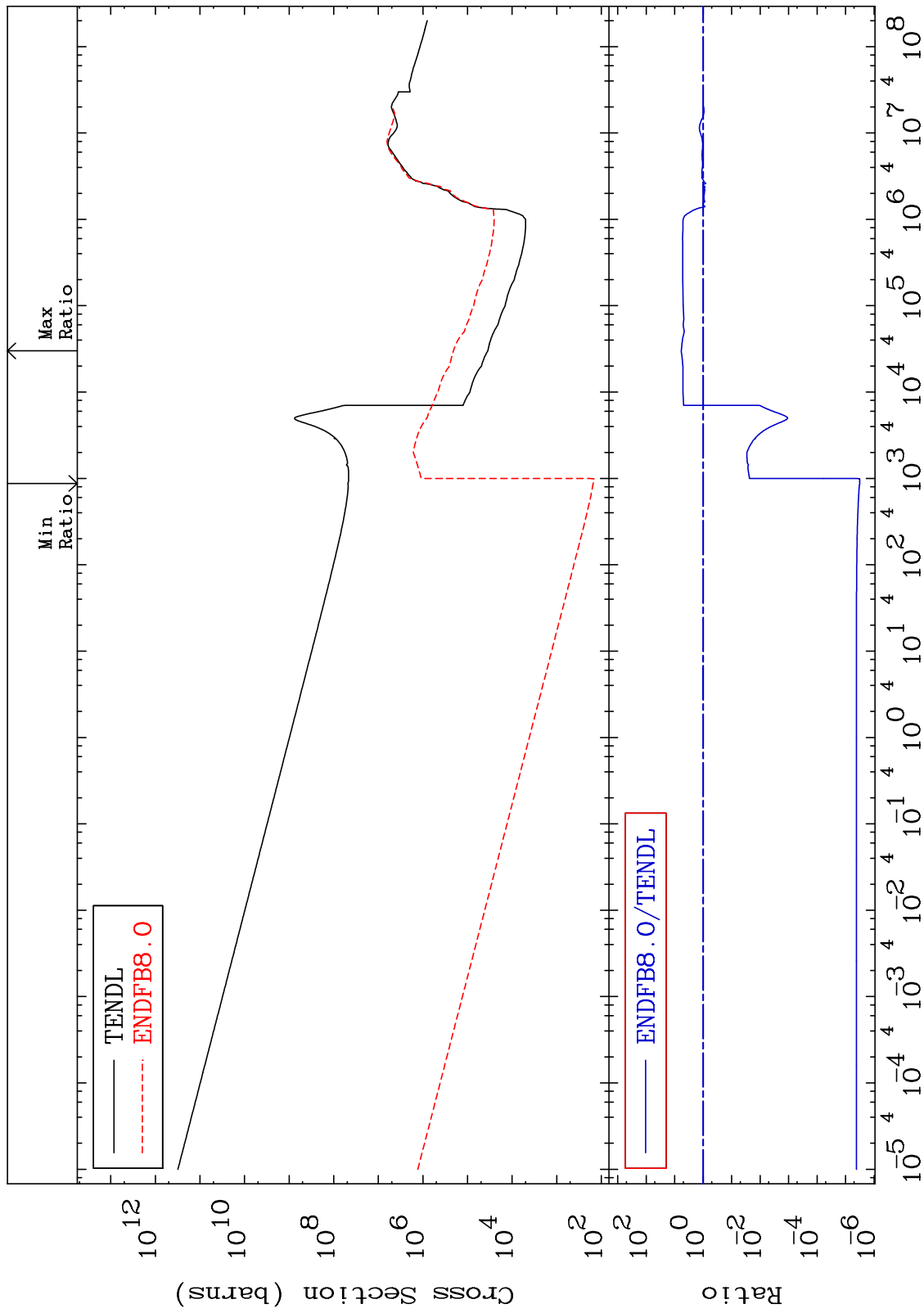
Incident Energy (eV)

18-Ar-39

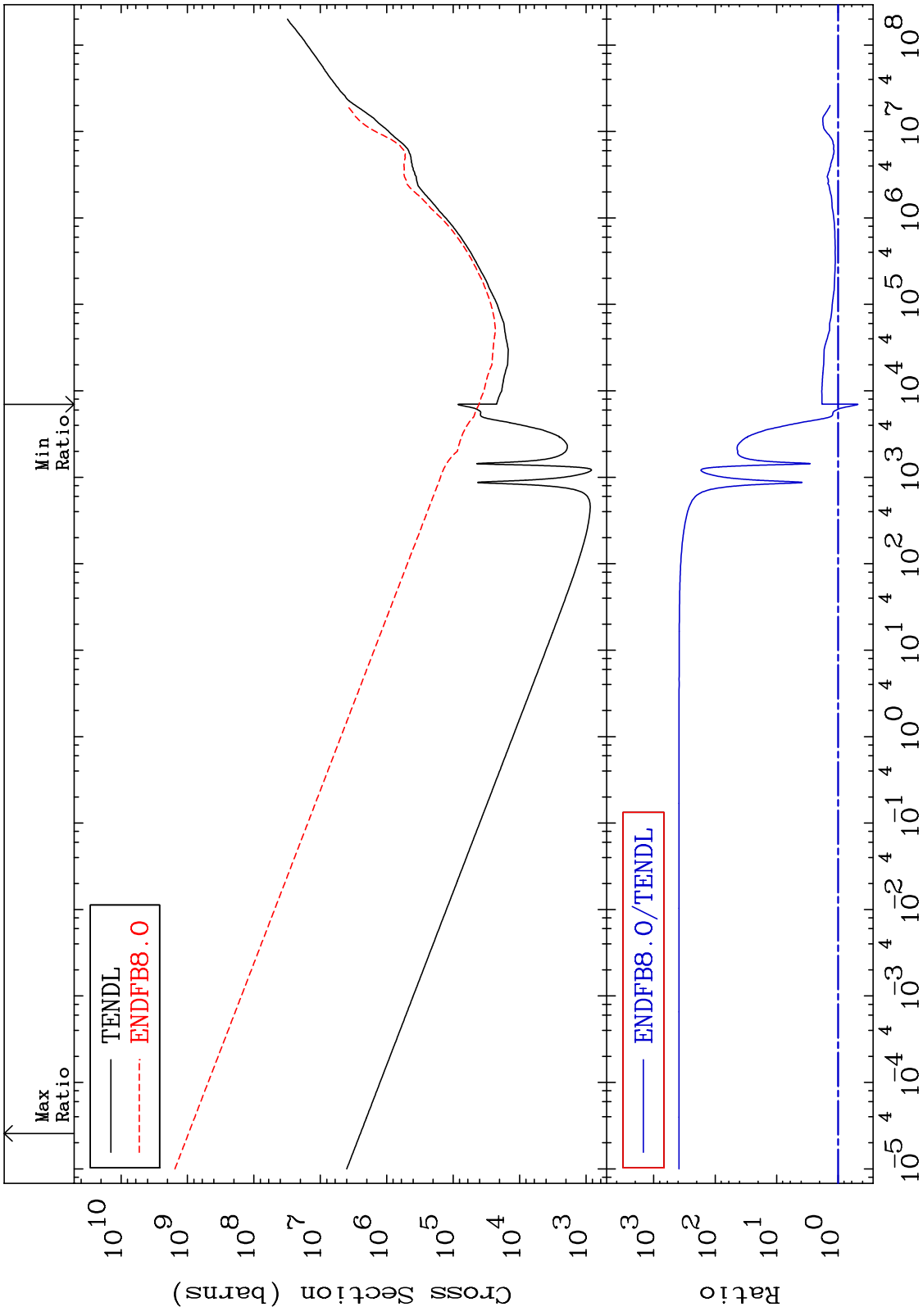
MAT 1834

Total photon (eV-barns)
Cross Section

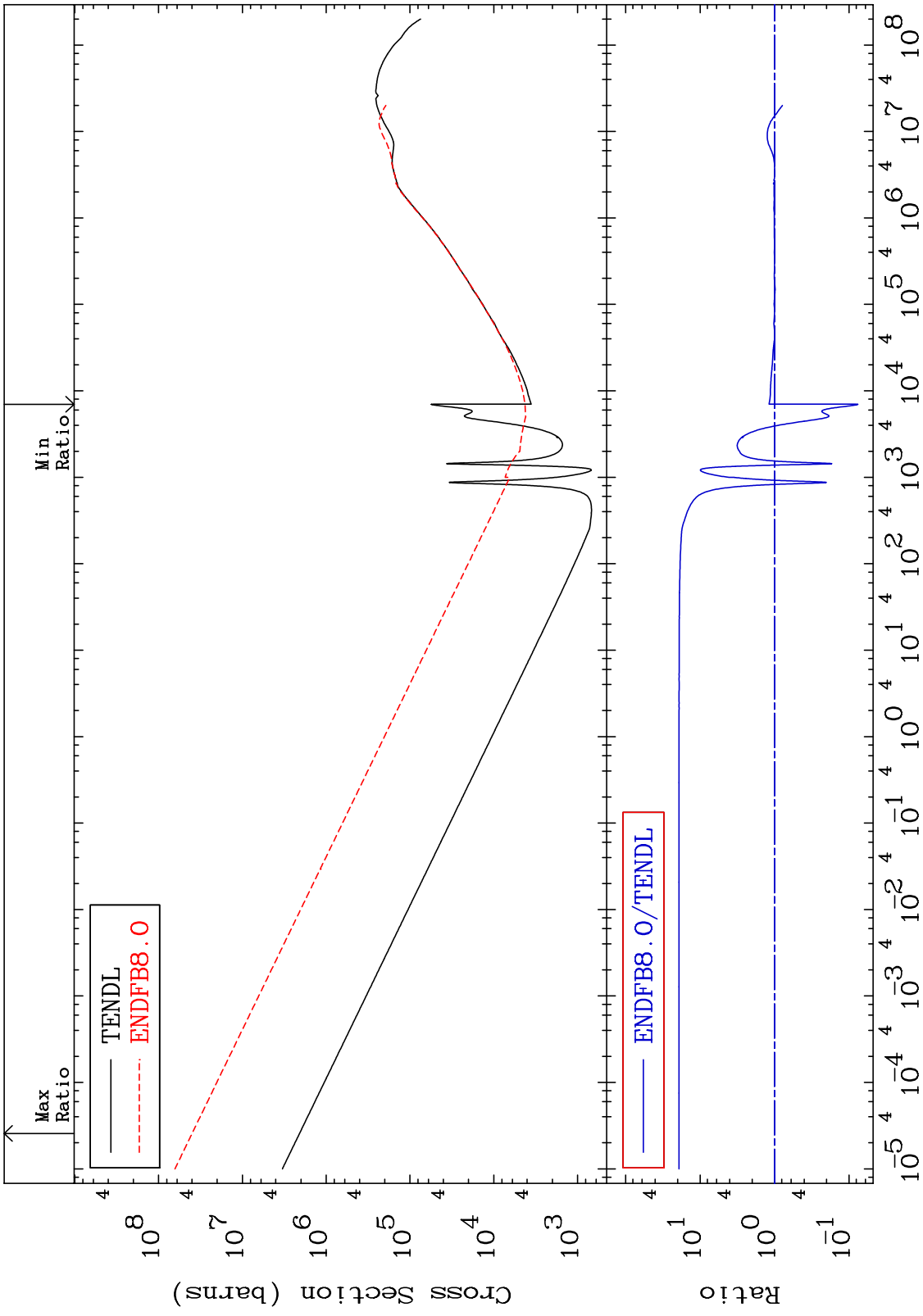
18-Ar-39
-100.0 To 488.8 %

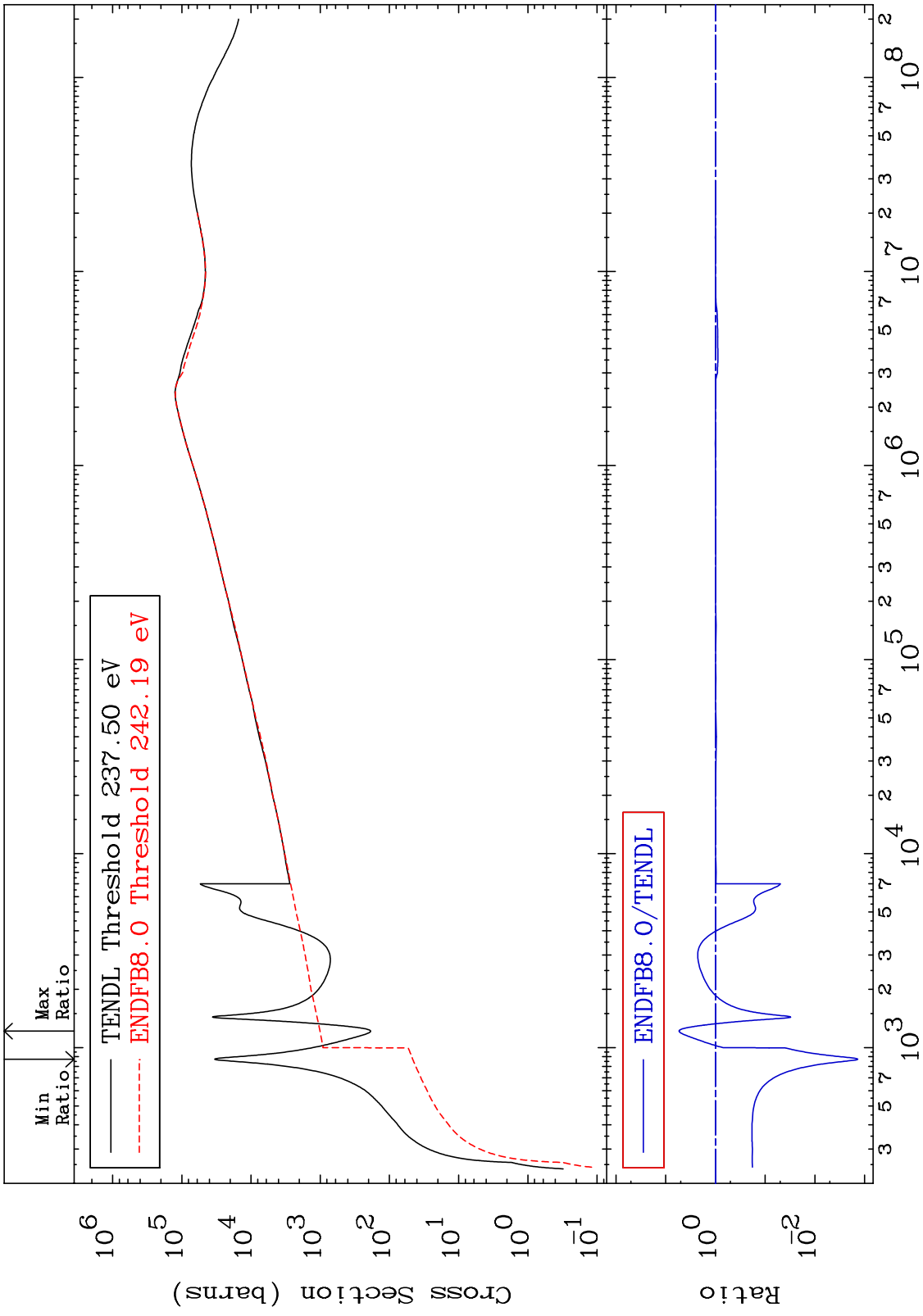


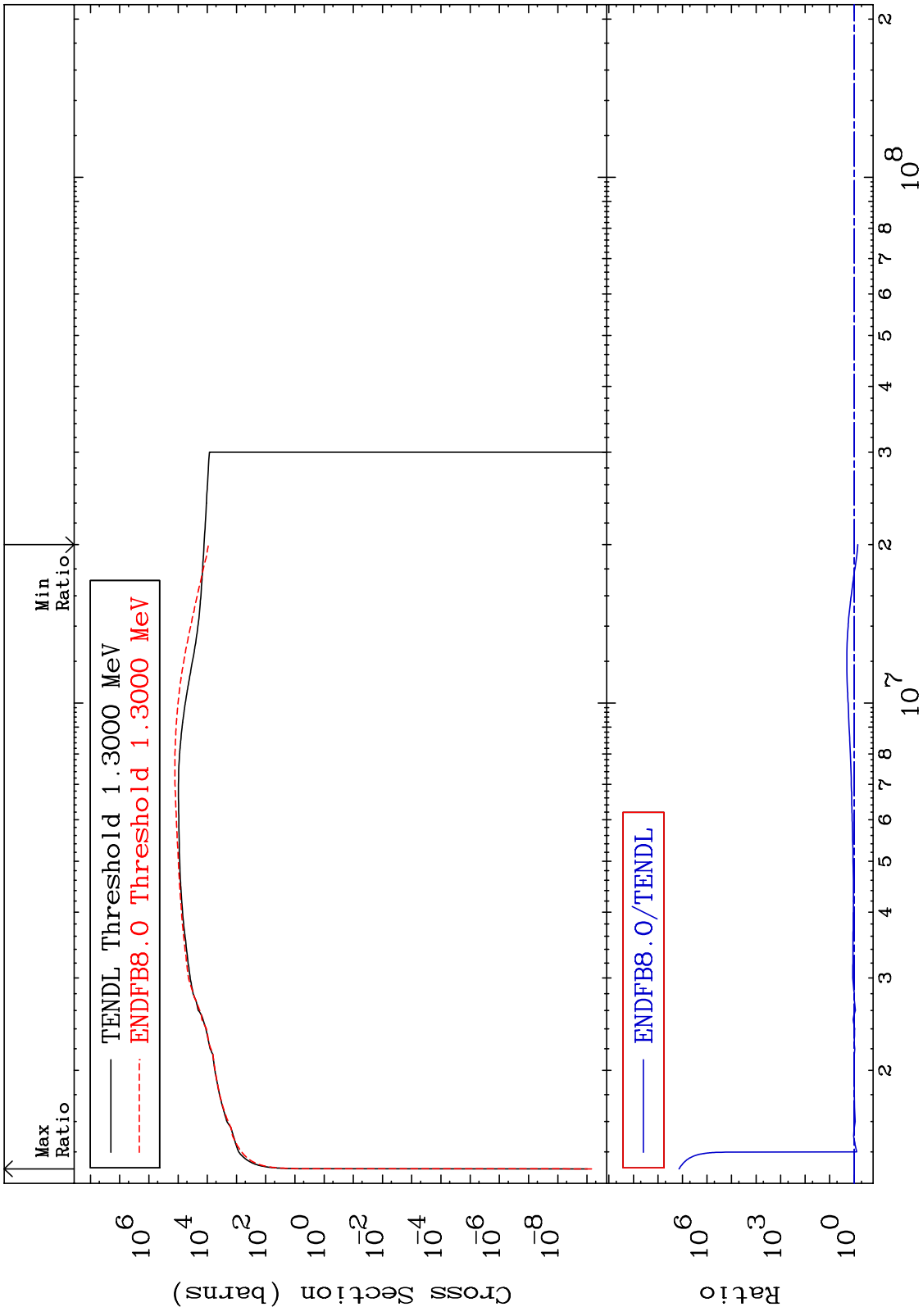
MAT 1834 Total kinematic kerma (high limit) 18-Ar-39
 Cross Section -52.28 To 9999. %



MAT 1834 Dpa total (eV-barns) 18-Ar-39
 Cross Section -92.38 To 1816. %







MAT 1834 Dpa disappearance (mt102 -120) 18-Ar-39
 Cross Section -77.31 To 1816. %

