

Program Complot
(Version 2018-1)

by

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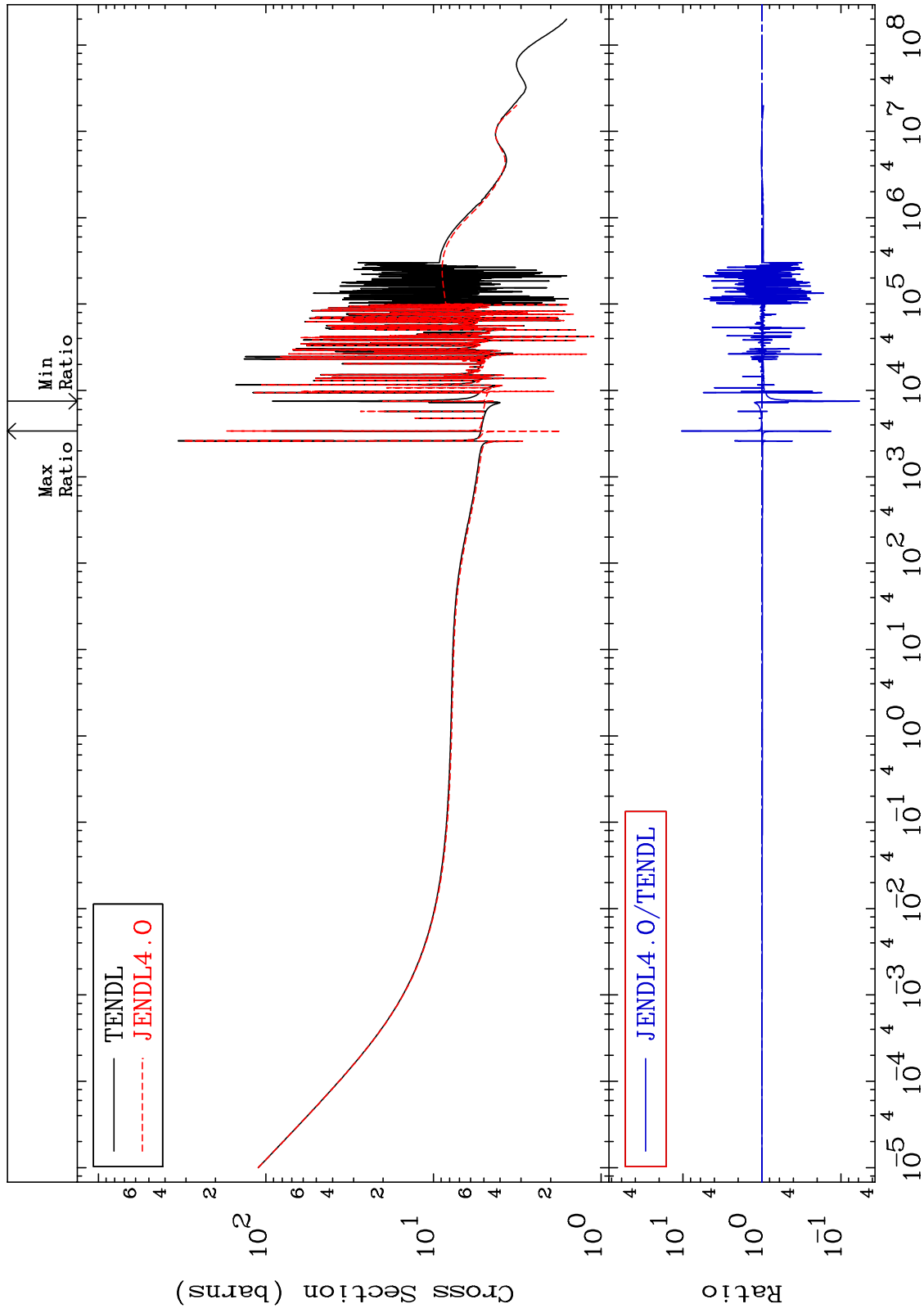
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 3925

Total
Cross Section

39-Y -89
-94.23 To 950.7 %



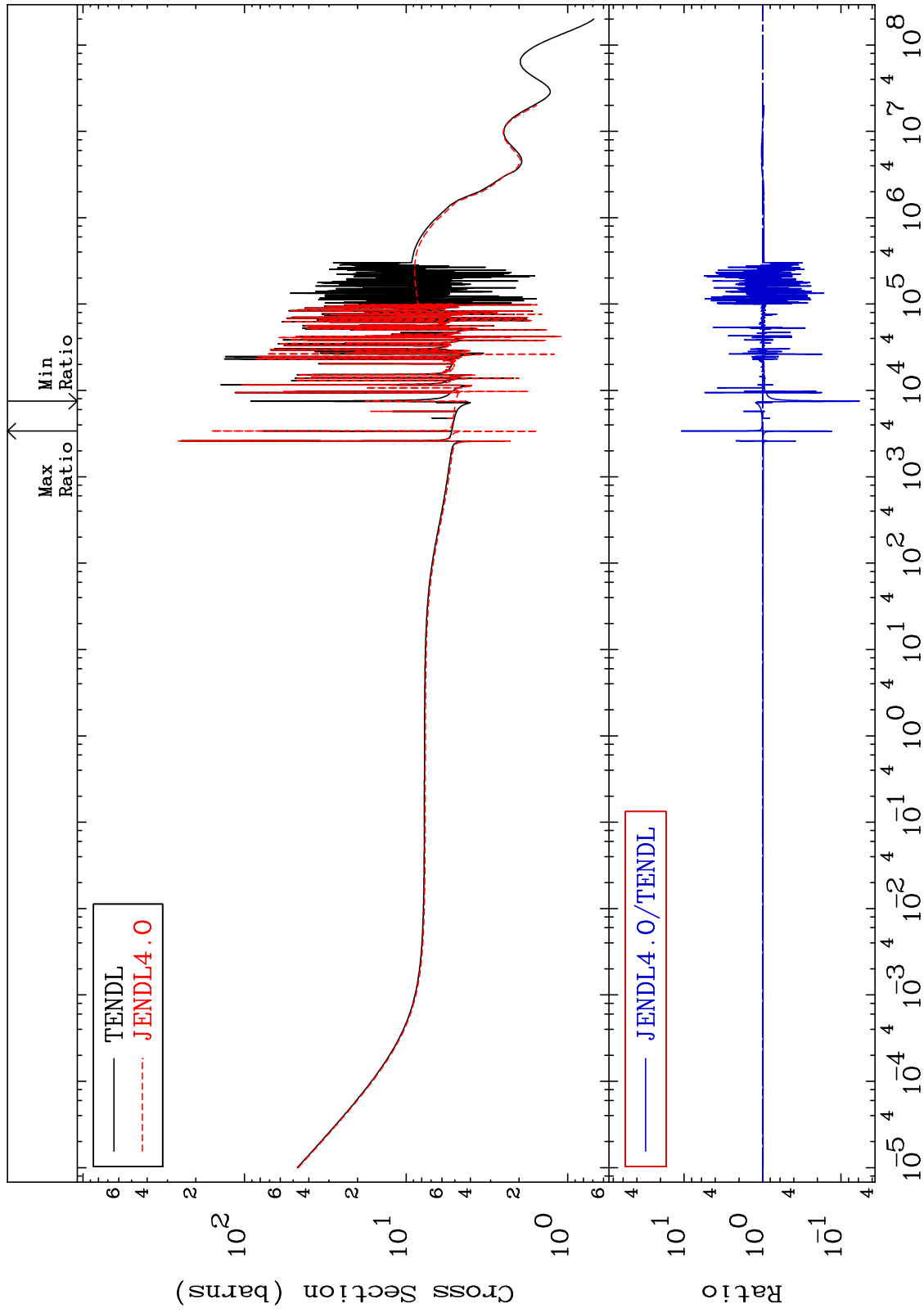
Incident Energy (eV)

39-Y -89

MAT 3925

Elastic
Cross Section

39-Y -89
-94.23 To 987.2 %

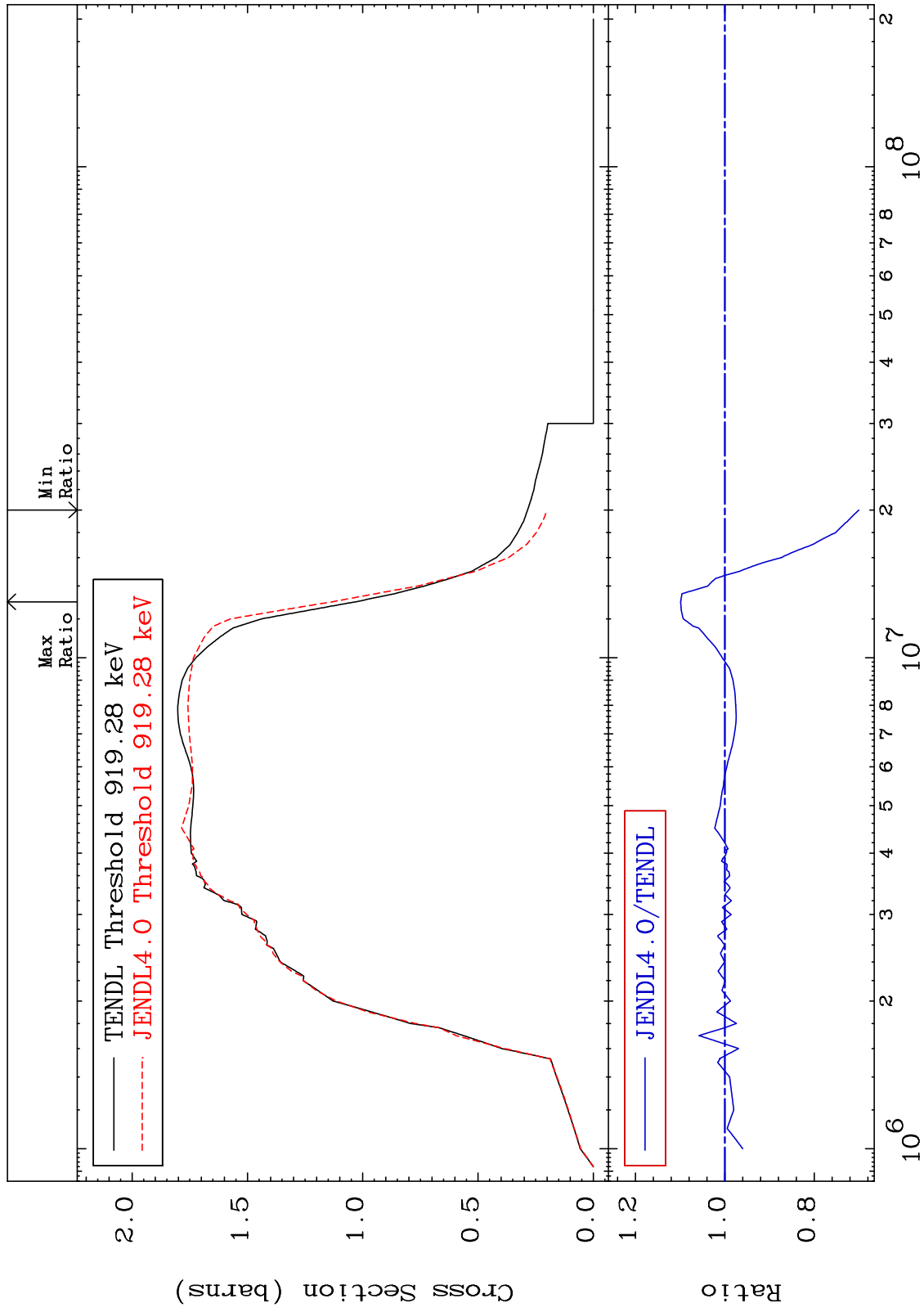


2

Incident Energy (eV)

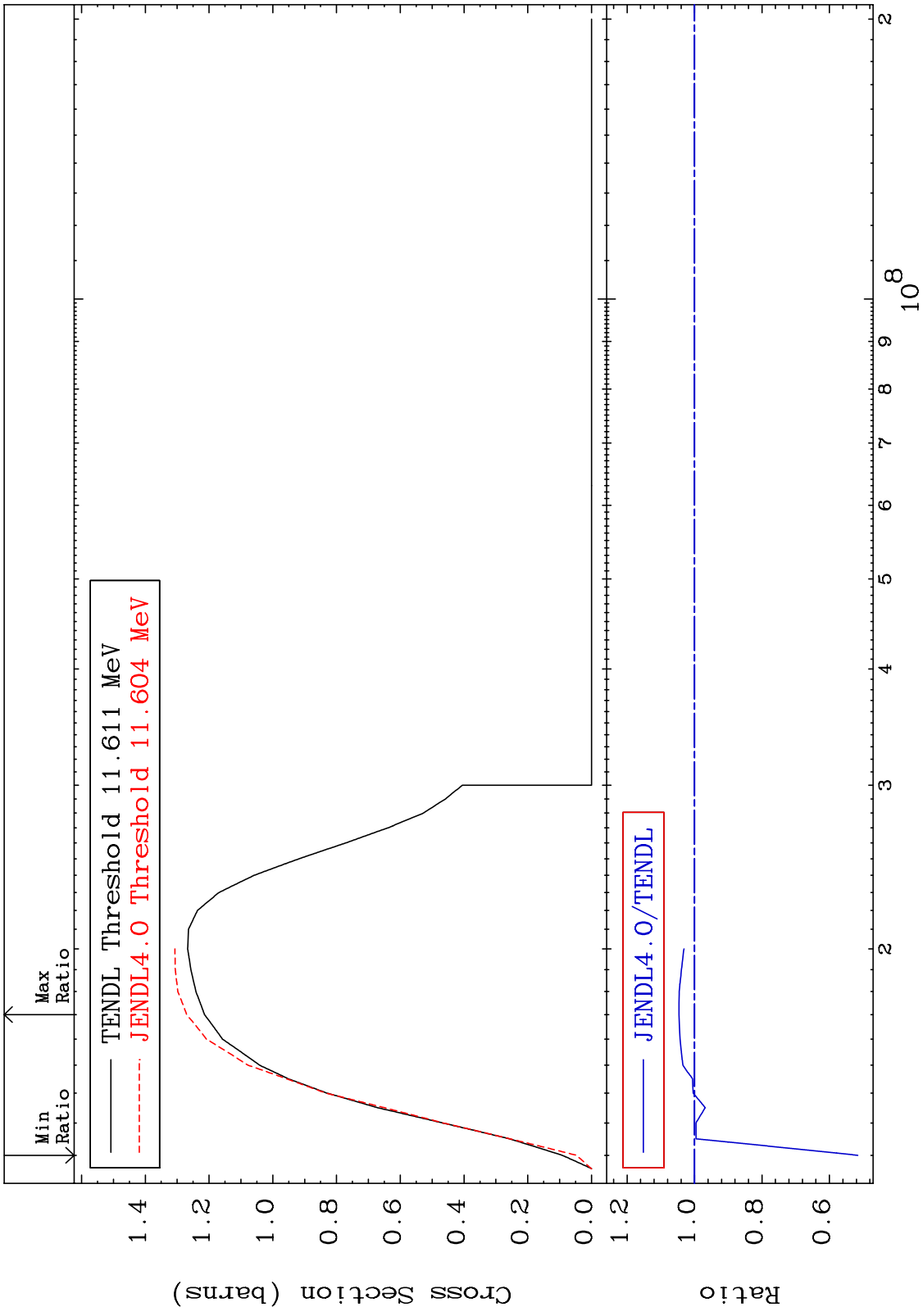
39-Y -89

MAT 3925 Inelastic Cross Section -30.01 To 9.901 % 39-Y -89



39-Y -89

MAT 3925 (n,2n) Cross Section 39-Y -89
 -48.43 To 4.596 %



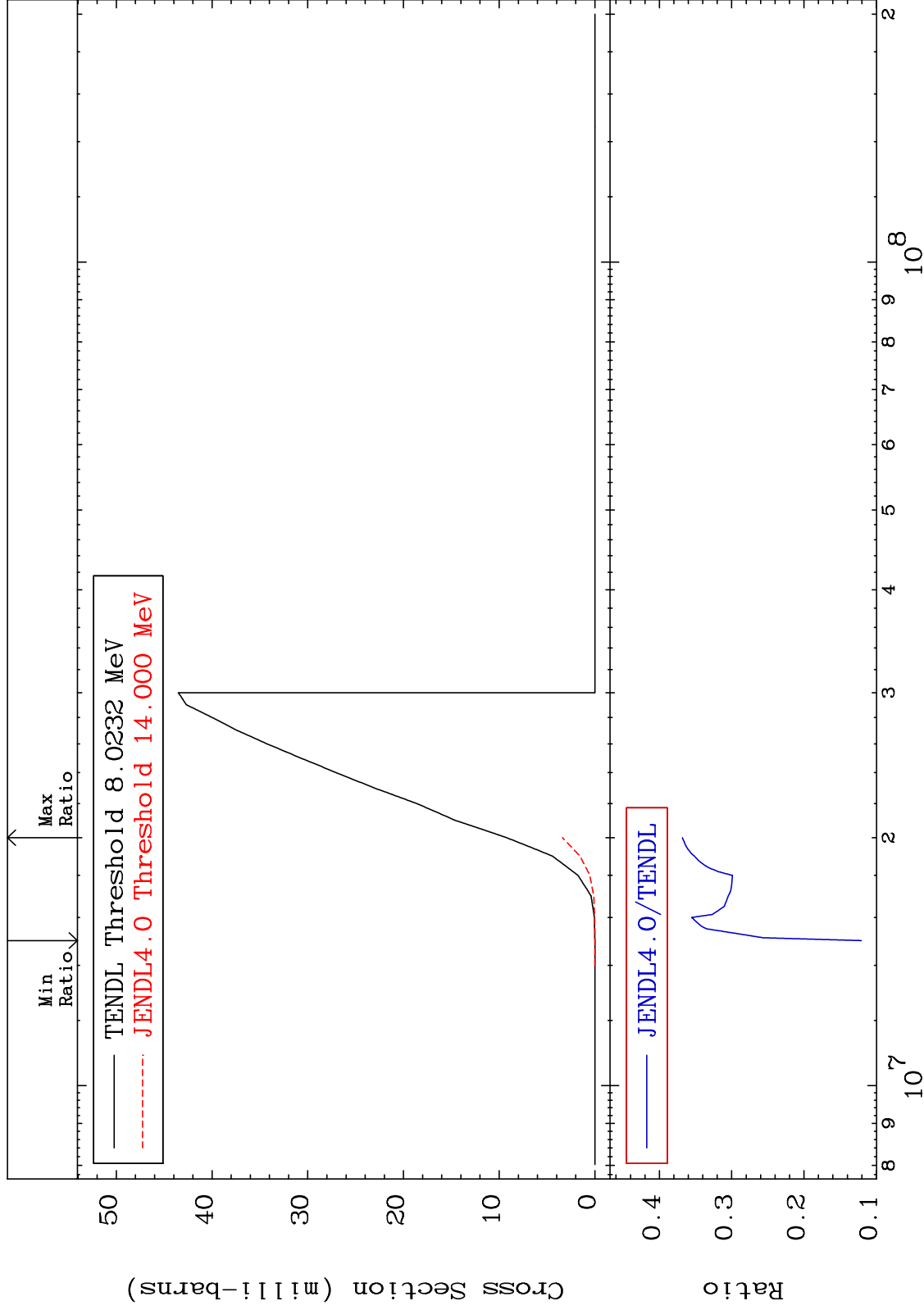
MAT 3925

(n,n') α

39-Y -89

Cross Section

-87.93 To -63.19%

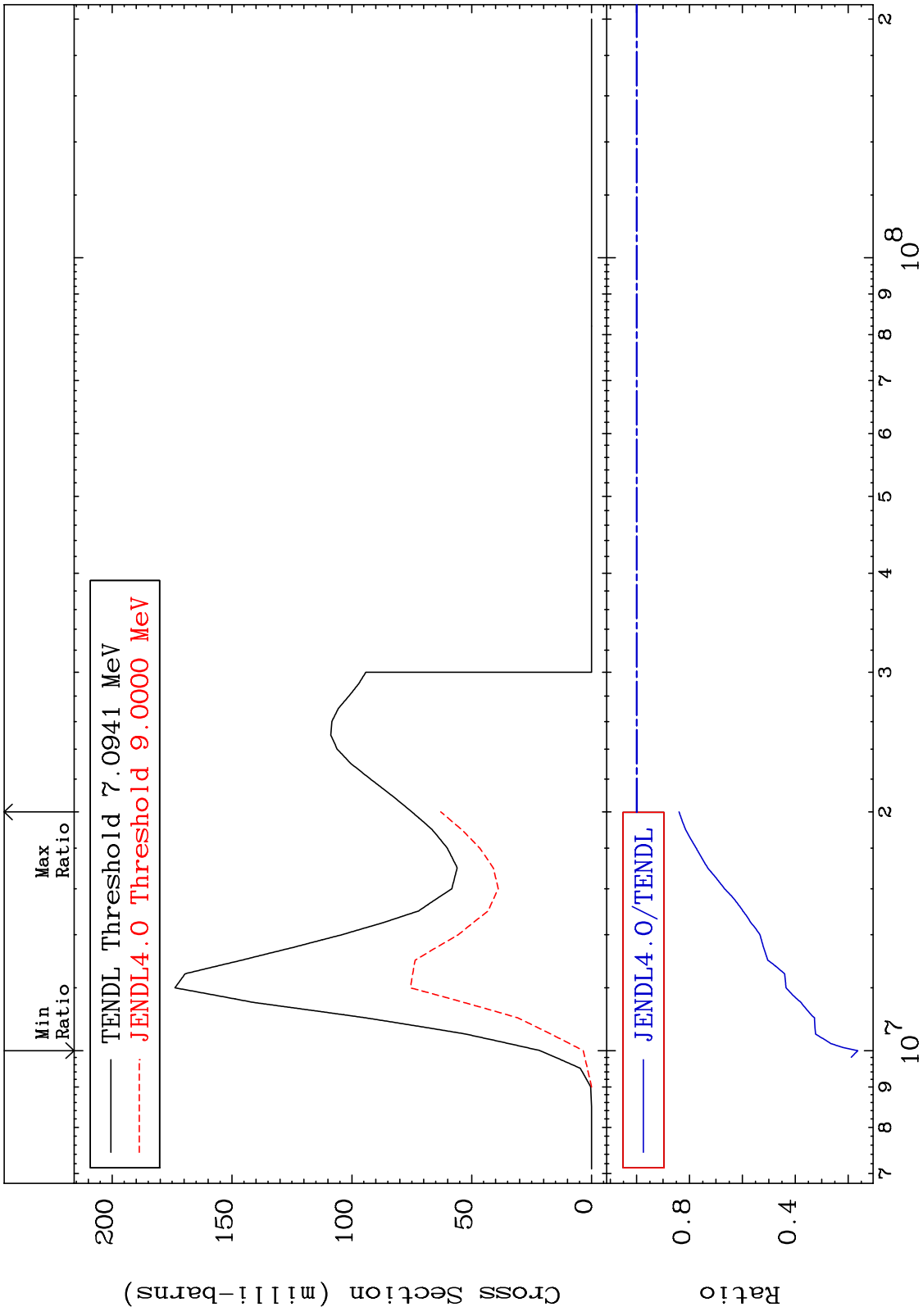


5

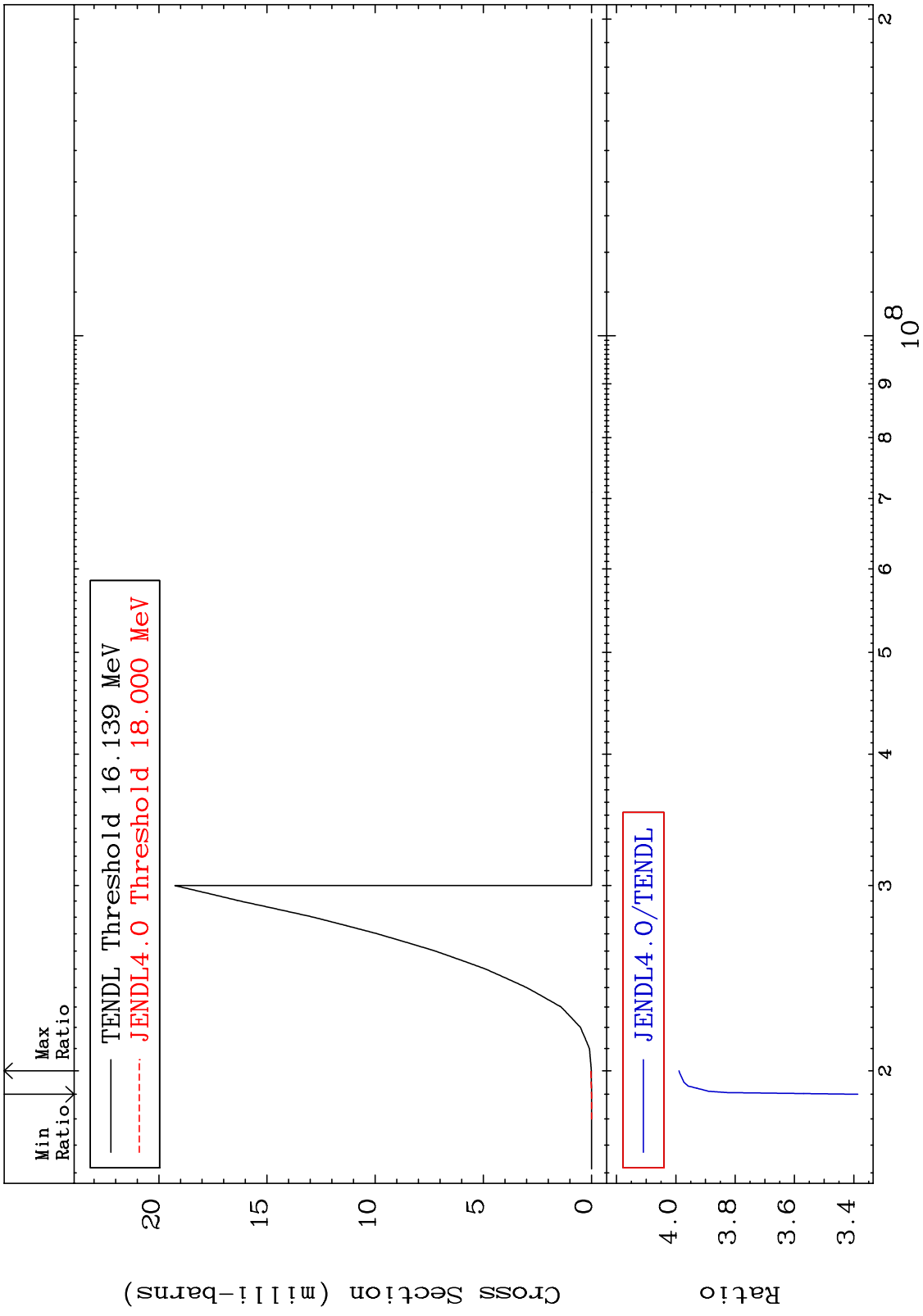
Incident Energy (eV)

39-Y -89

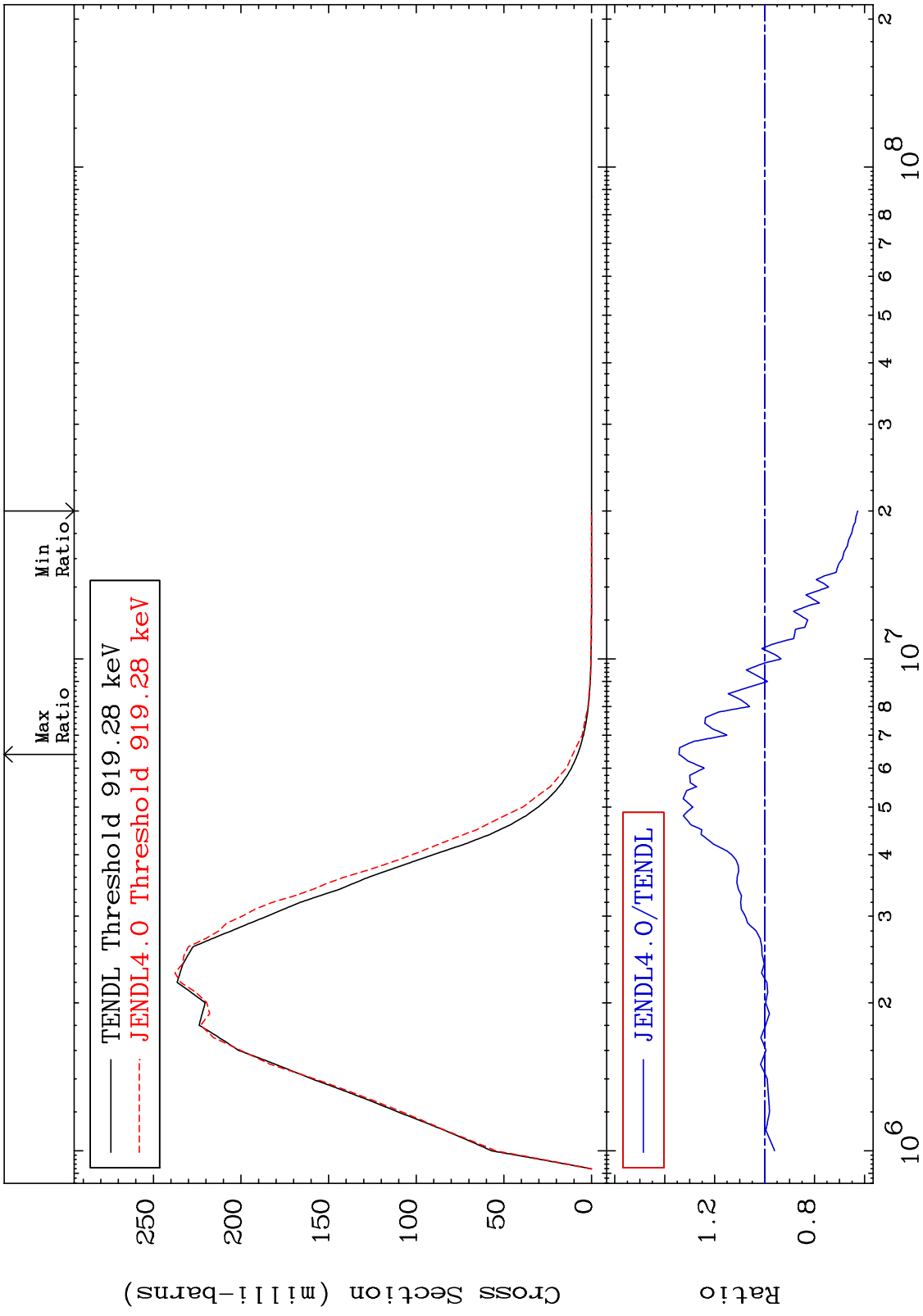
MAT 3925 (n,n') p 39-Y -89
Cross Section -83.70 To -16.03%



6 39-Y -89

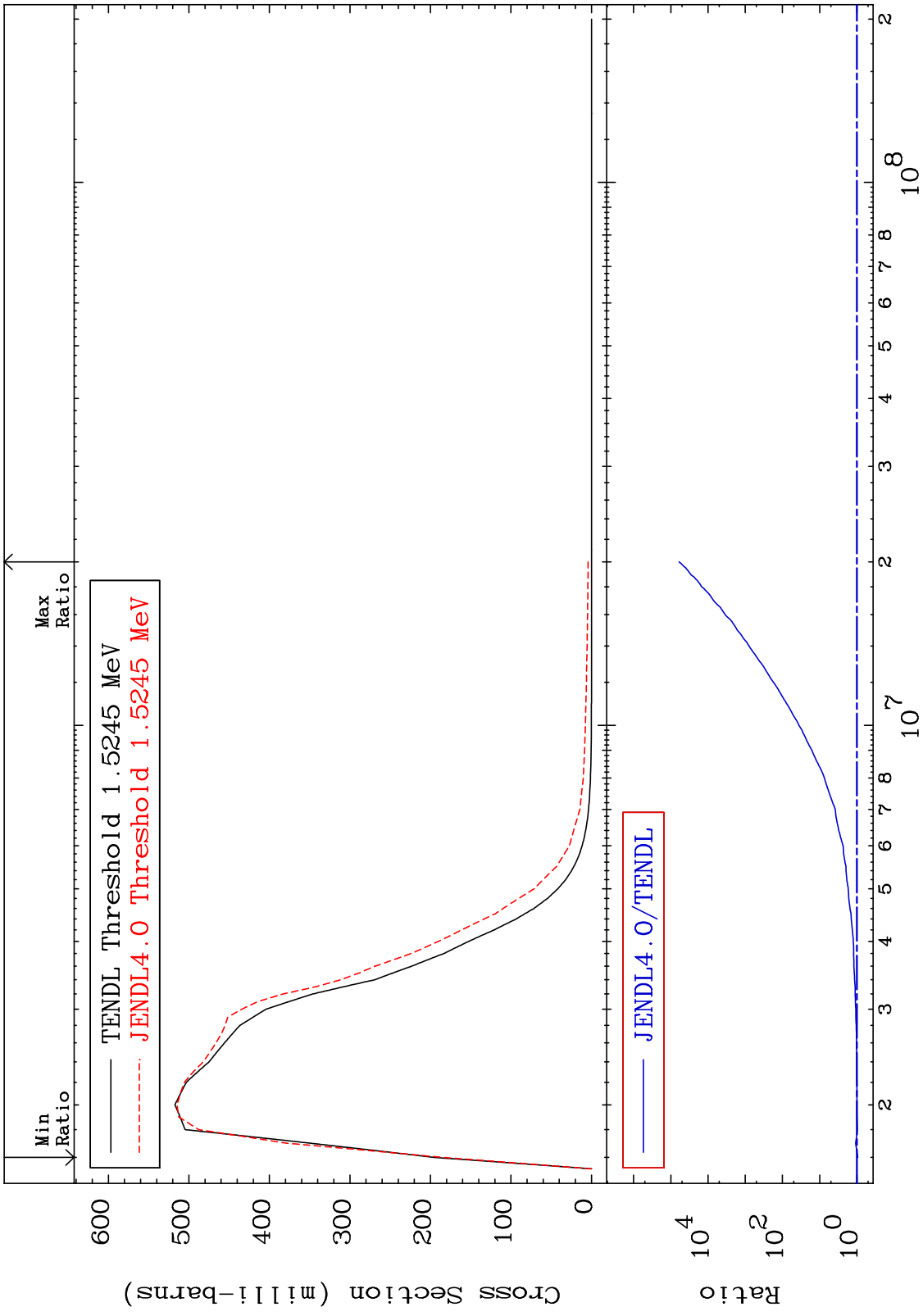


MAT 3925 MT= 51 (n,n') Level Cross Section -37.34 To 34.27 % 39-Y -89



Incident Energy (eV) 39-Y -89

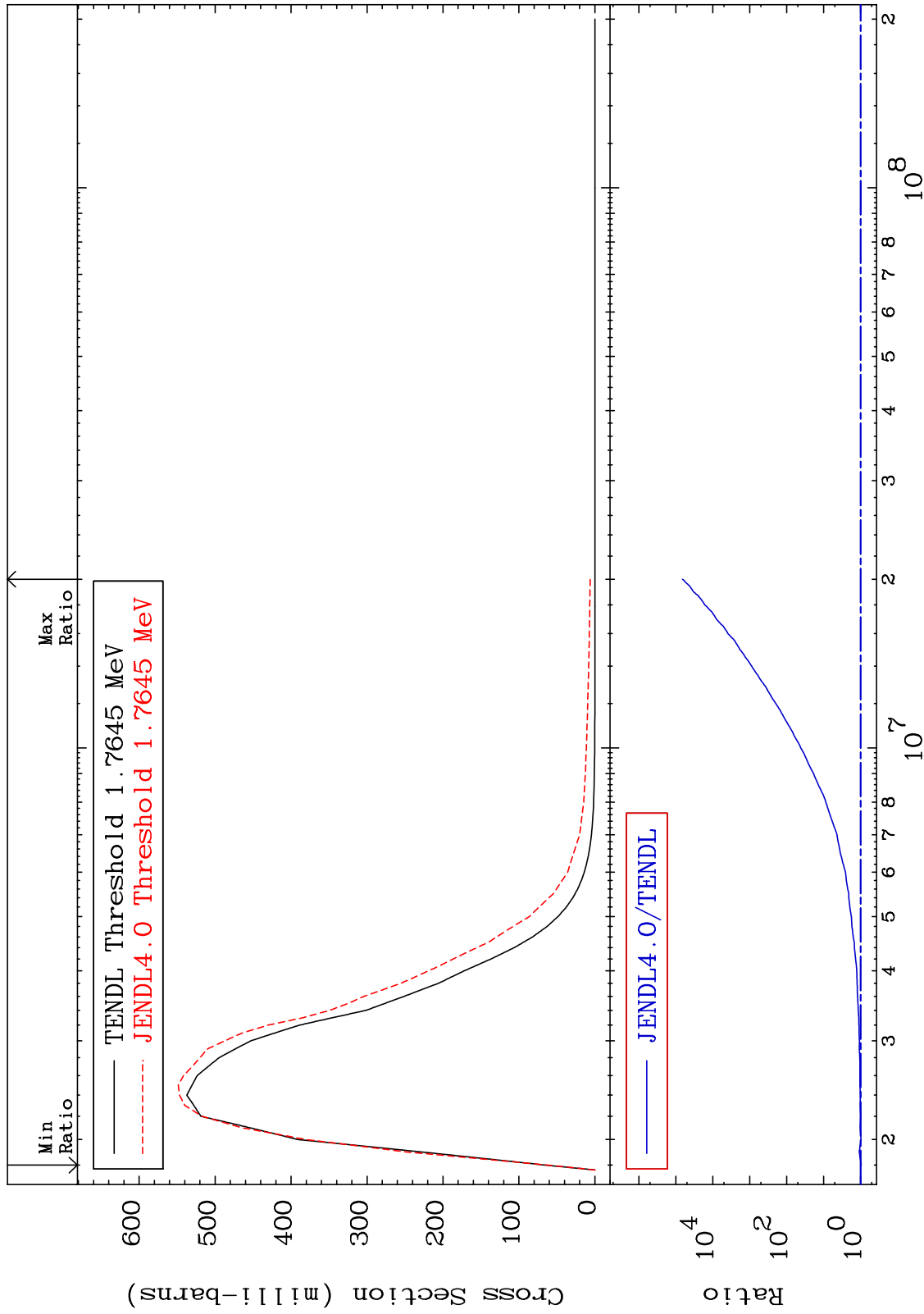
MAT 3925 MT= 52 (n,n') Level Cross Section -5.677 To 9999. % 39-Y -89



MAT 3925

MT= 53 (n,n') Level
Cross Section

39-Y -89
-4.407 To 9999. %

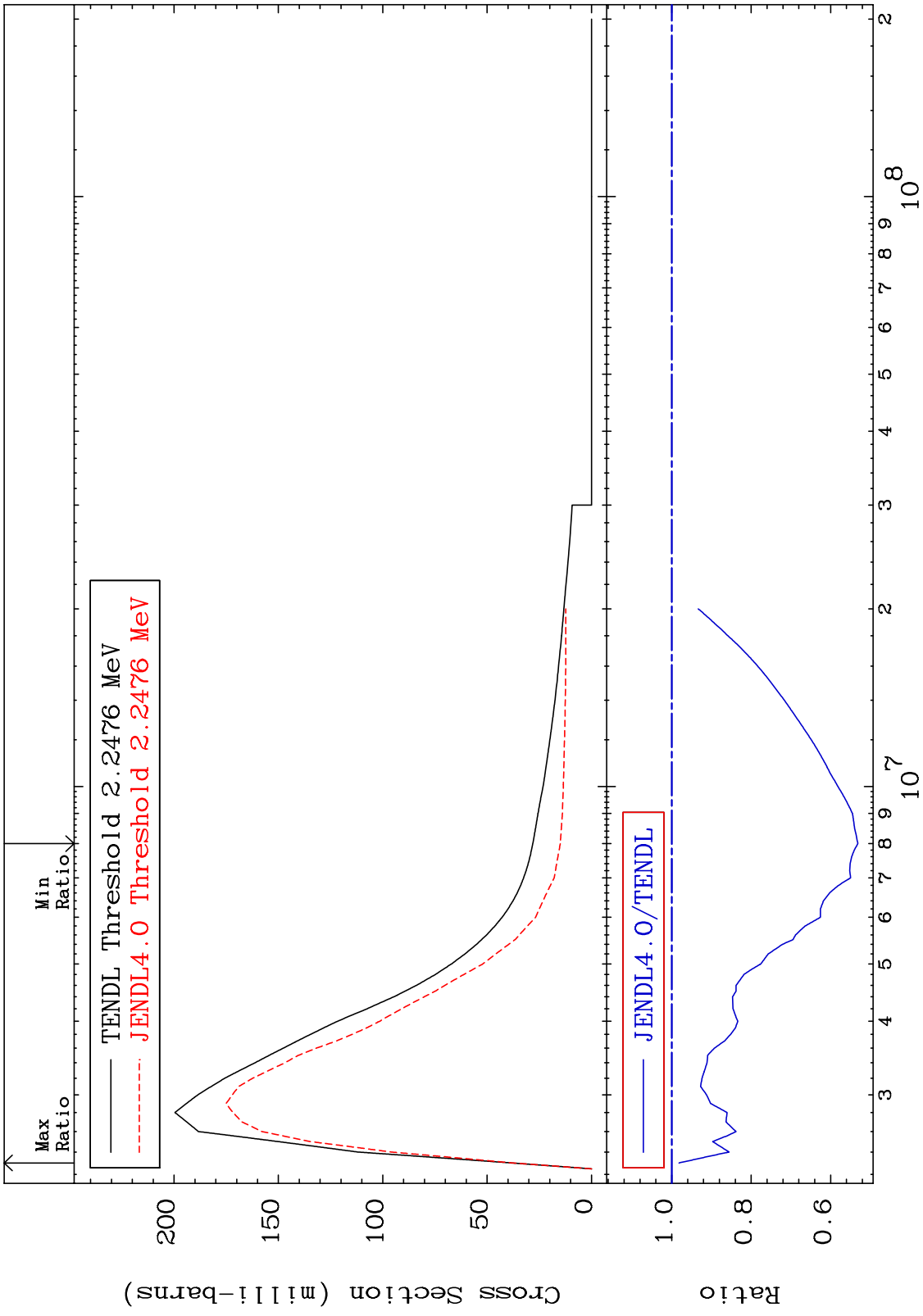


10

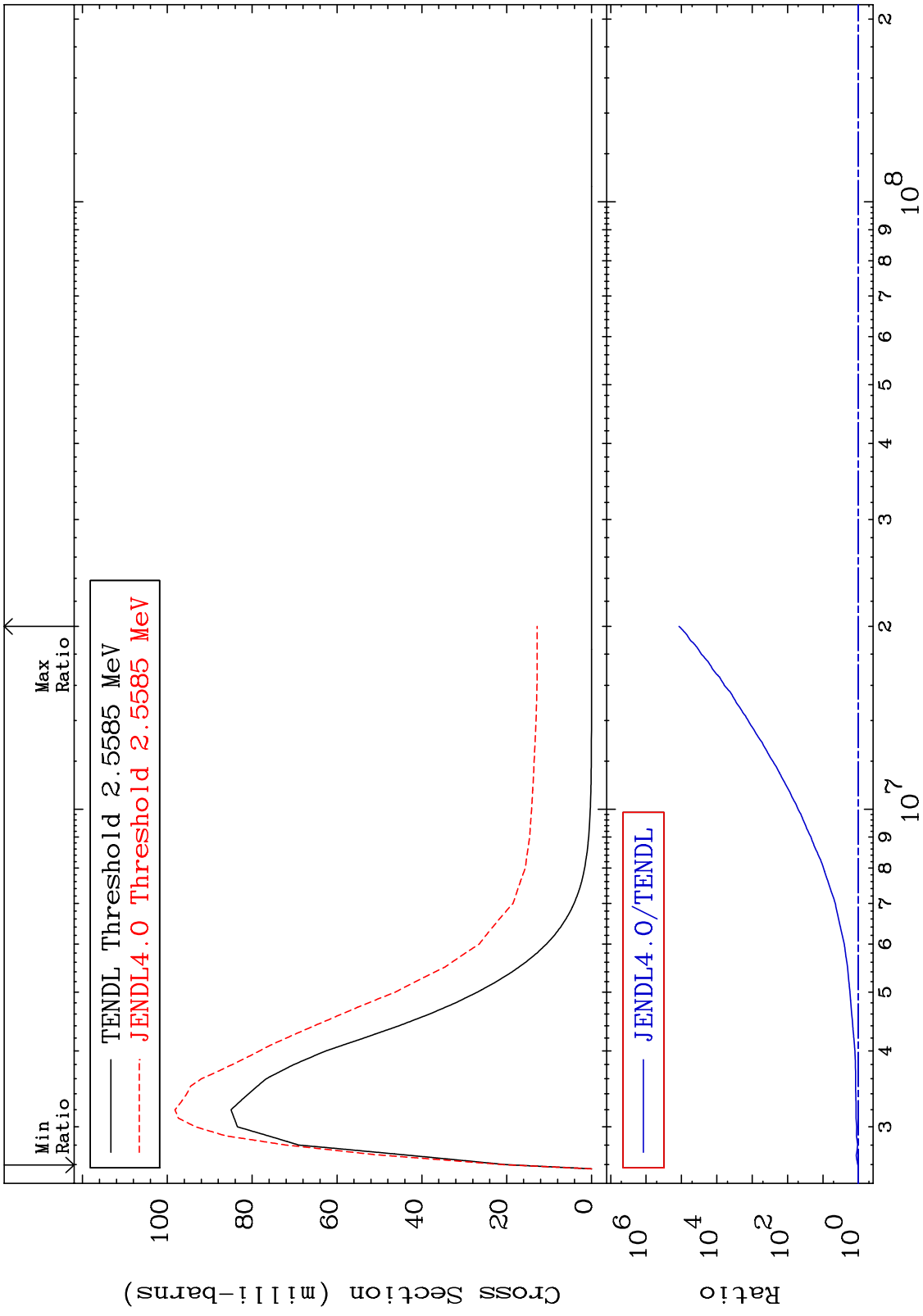
Incident Energy (eV)

39-Y -89

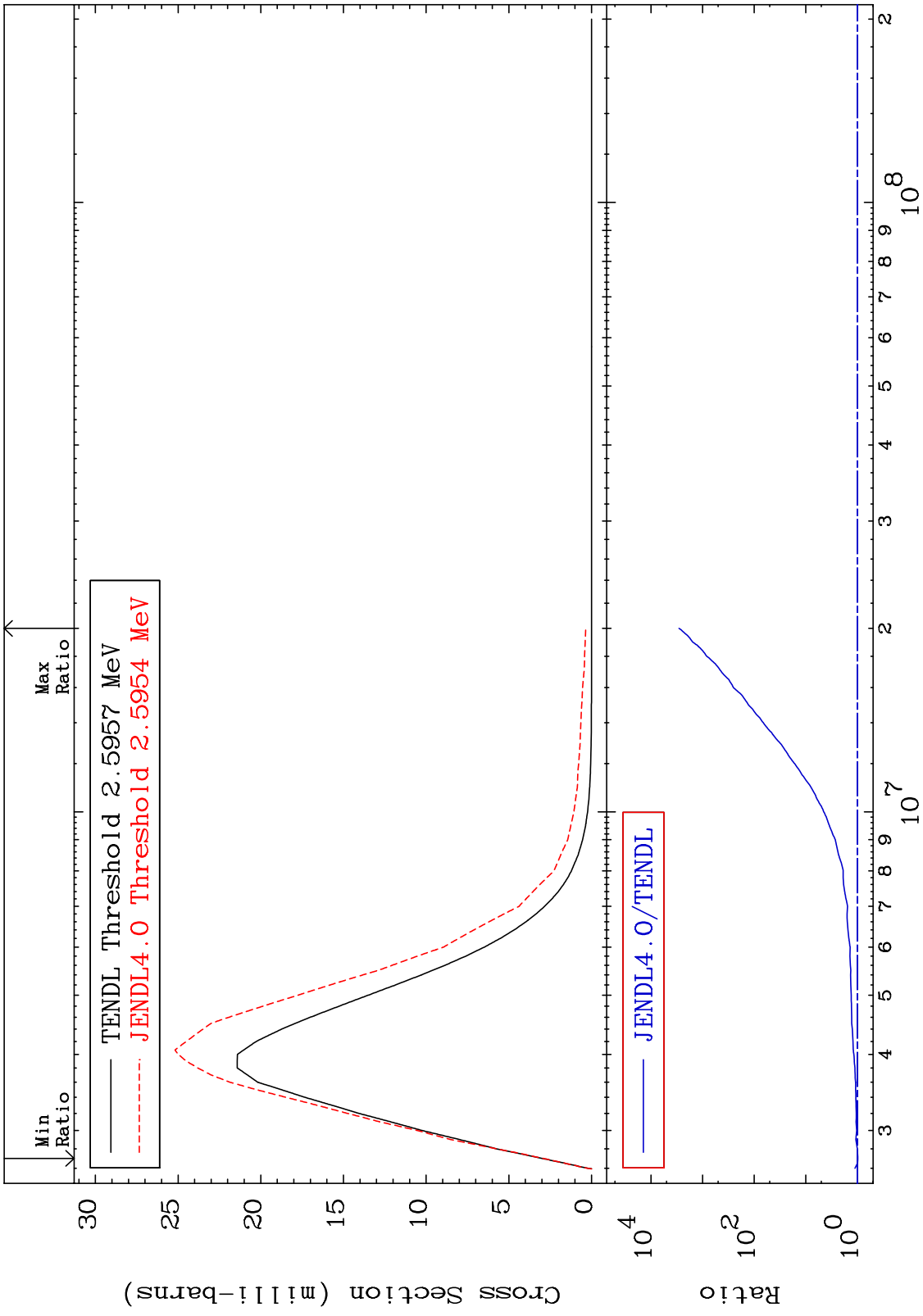
MAT 3925 MT= 54 (n,n') Level Cross Section 39-Y -89
 -46.87 To -1.835%



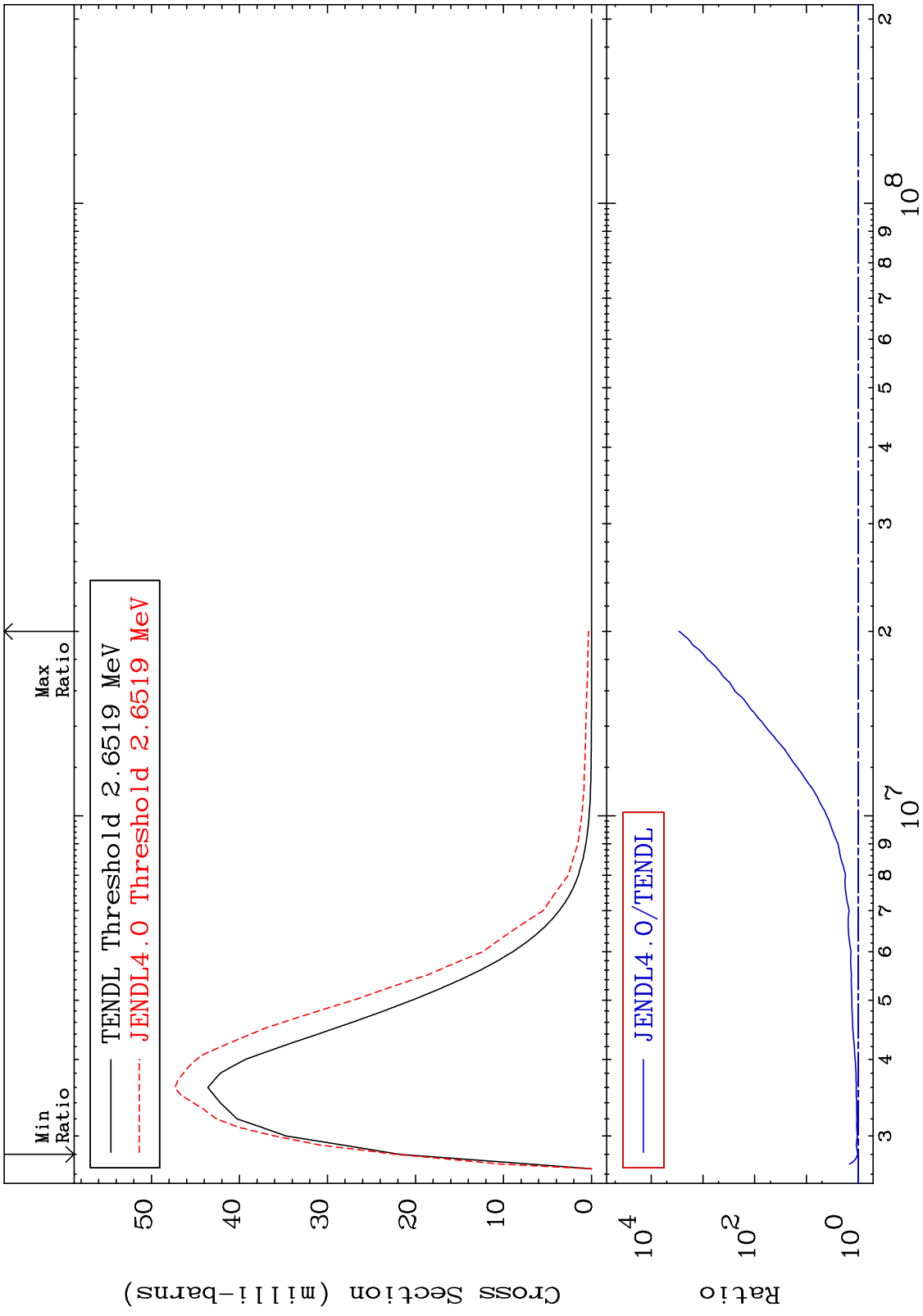
MAT 3925 MT= 55 (n,n') Level Cross Section 3.238 To 9999. % 39-Y -89



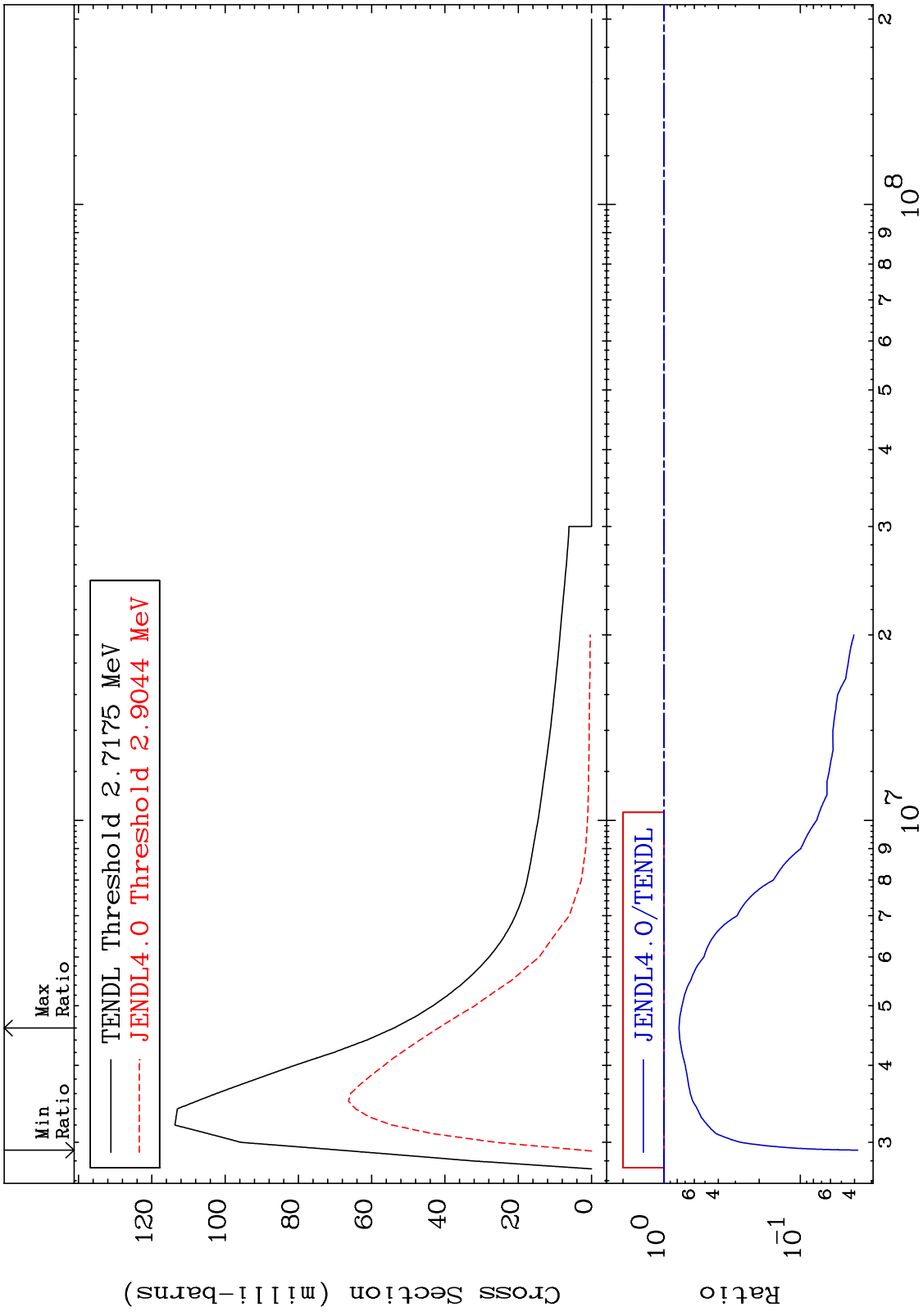
MAT 3925 MT= 56 (n,n') Level Cross Section -2.328 To 9999. % 39-Y -89



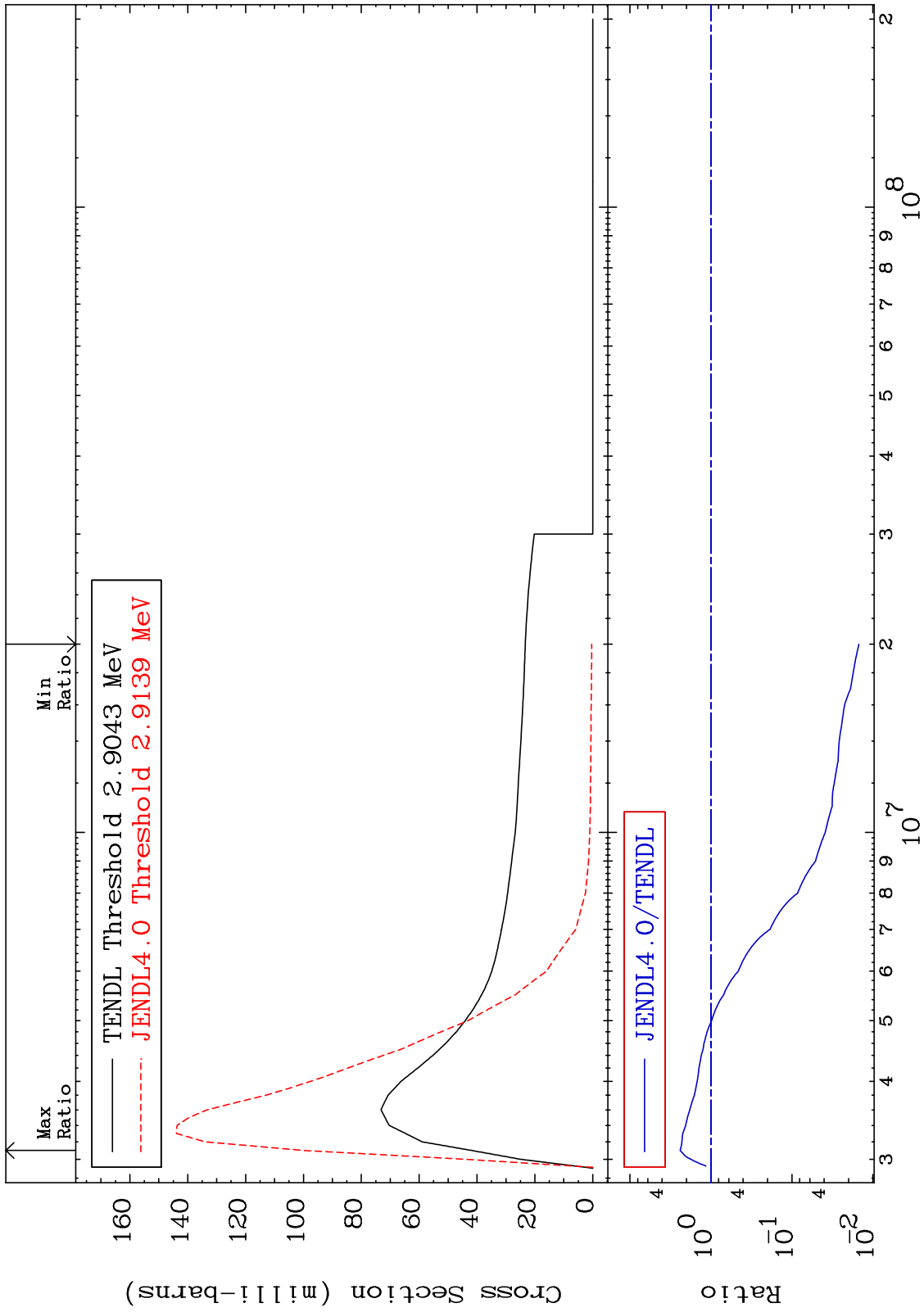
MAT 3925 MT= 57 (n,n') Level Cross Section 1.515 To 9999. % 39-Y -89



MAT 3925 MT= 58 (n,n') Level Cross Section 39-Y -89
 -96.22 To -22.44%



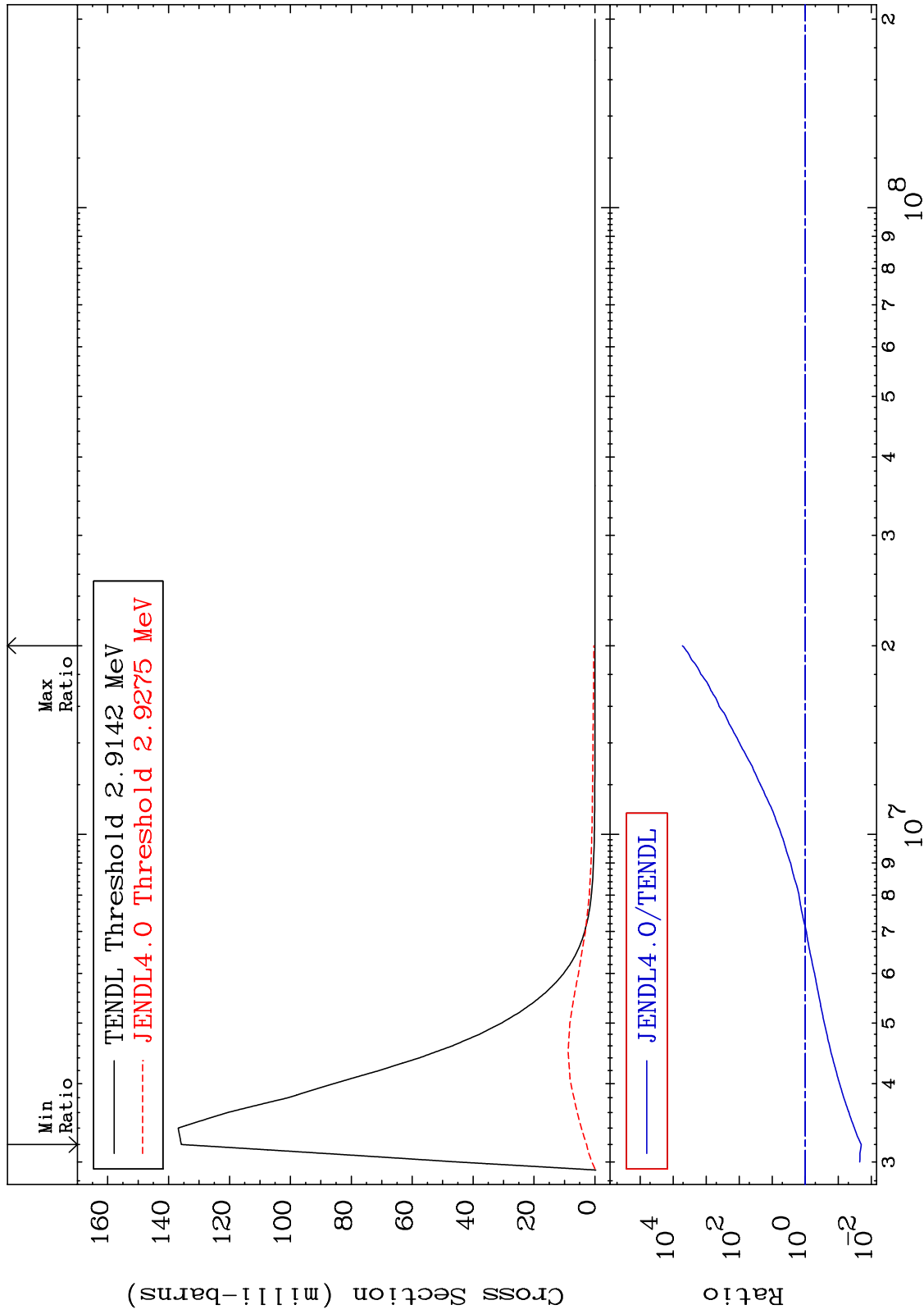
MAT 3925 MT= 59 (n,n') Level Cross Section -98.51 To 138.8 % 39-Y -89



MAT 3925

MT= 60 (n,n') Level
Cross Section

39-Y -89
-97.98 To 9999. %

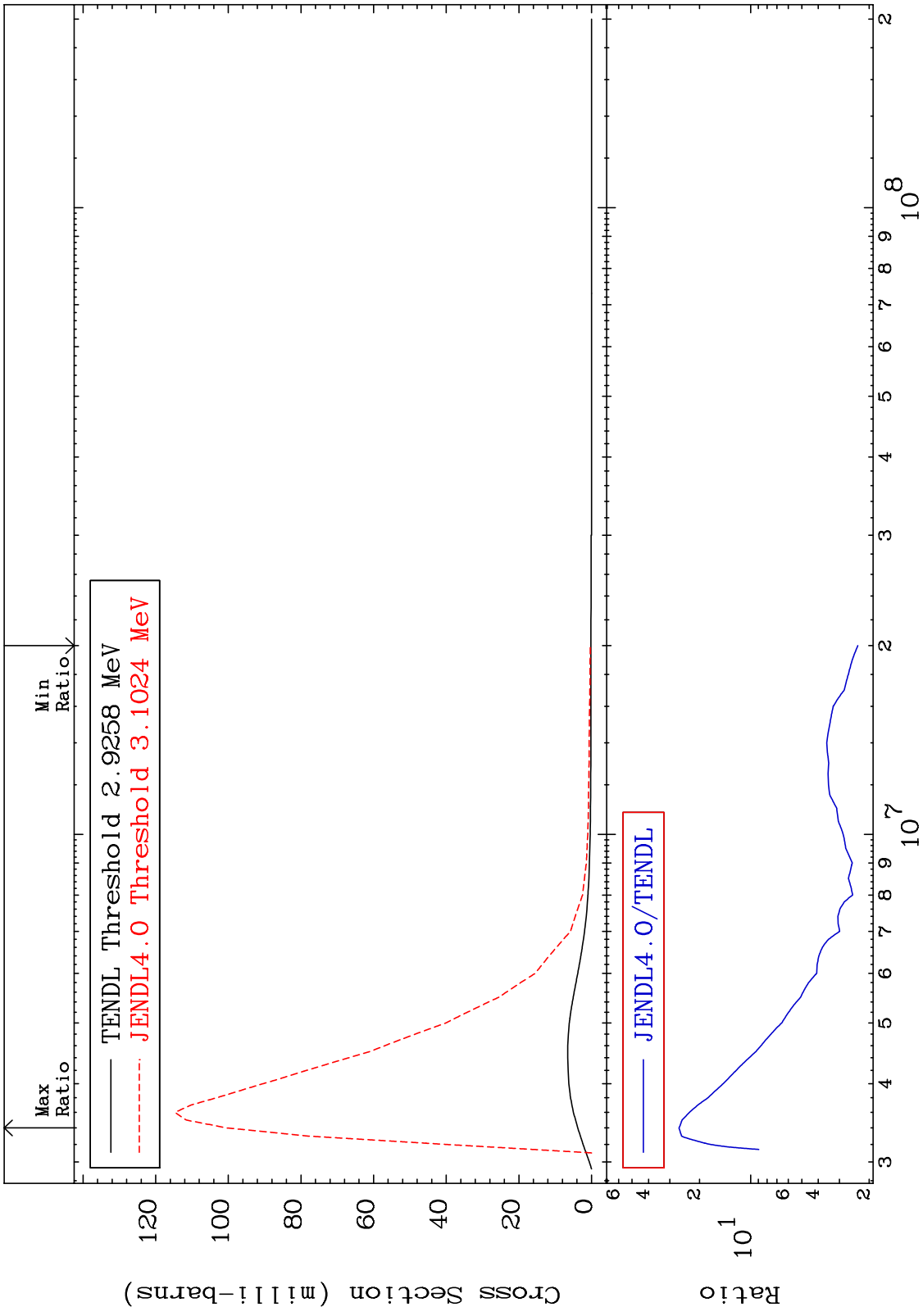


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Incident Energy (eV)

39-Y -89

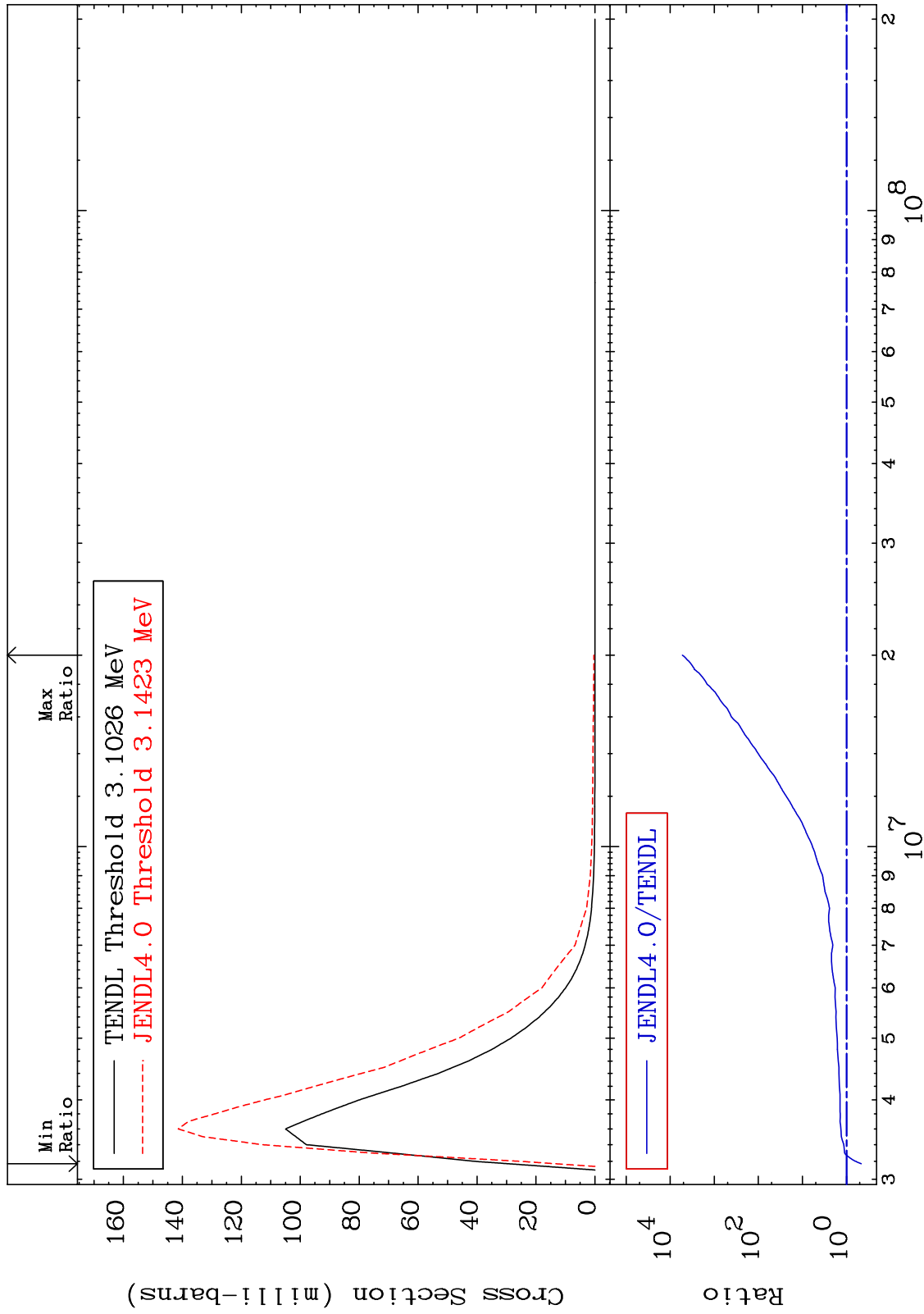
MAT 3925 MT= 61 (n,n') Level Cross Section 133.5 To 2542. % 39-Y -89



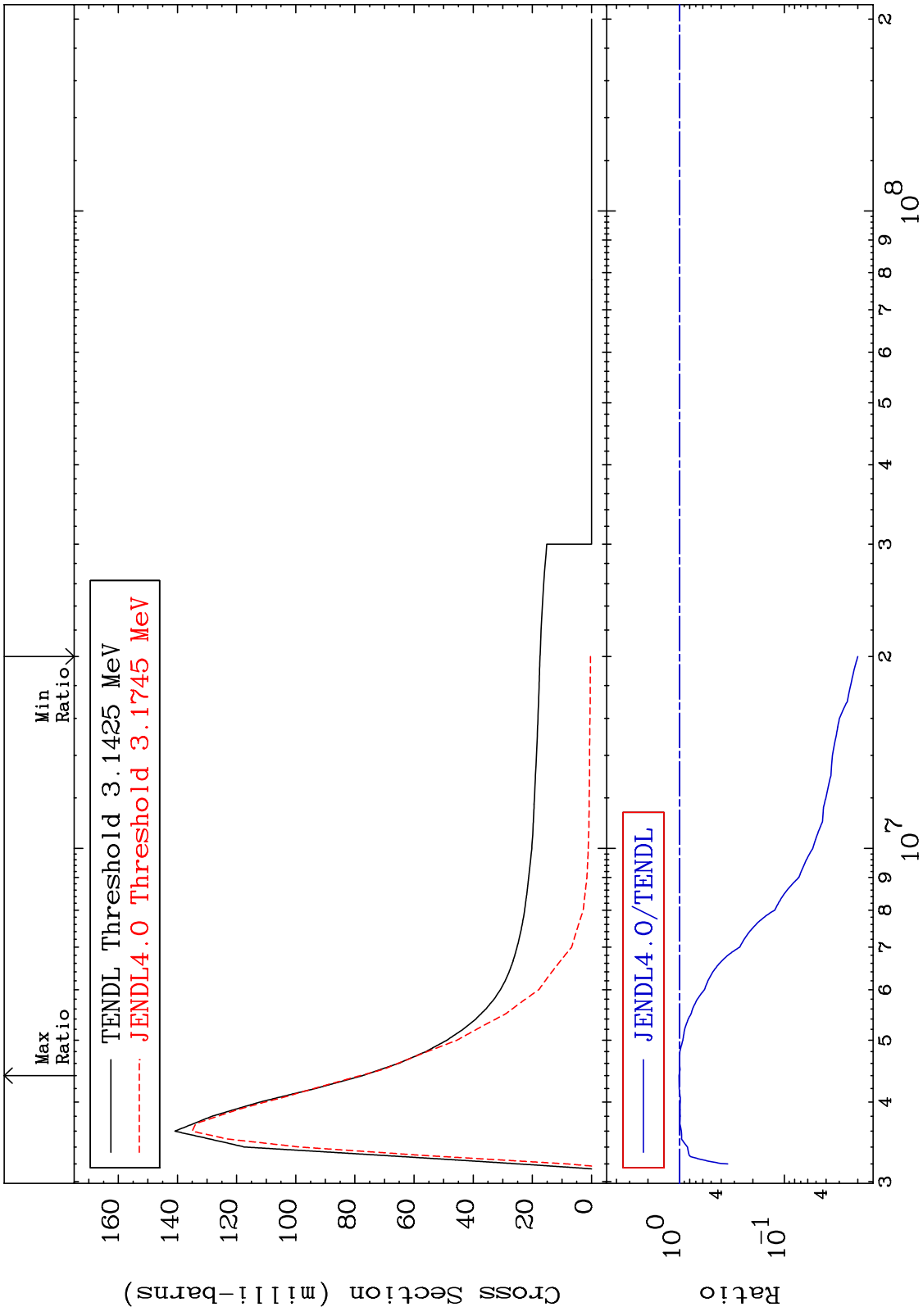
MAT 3925

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

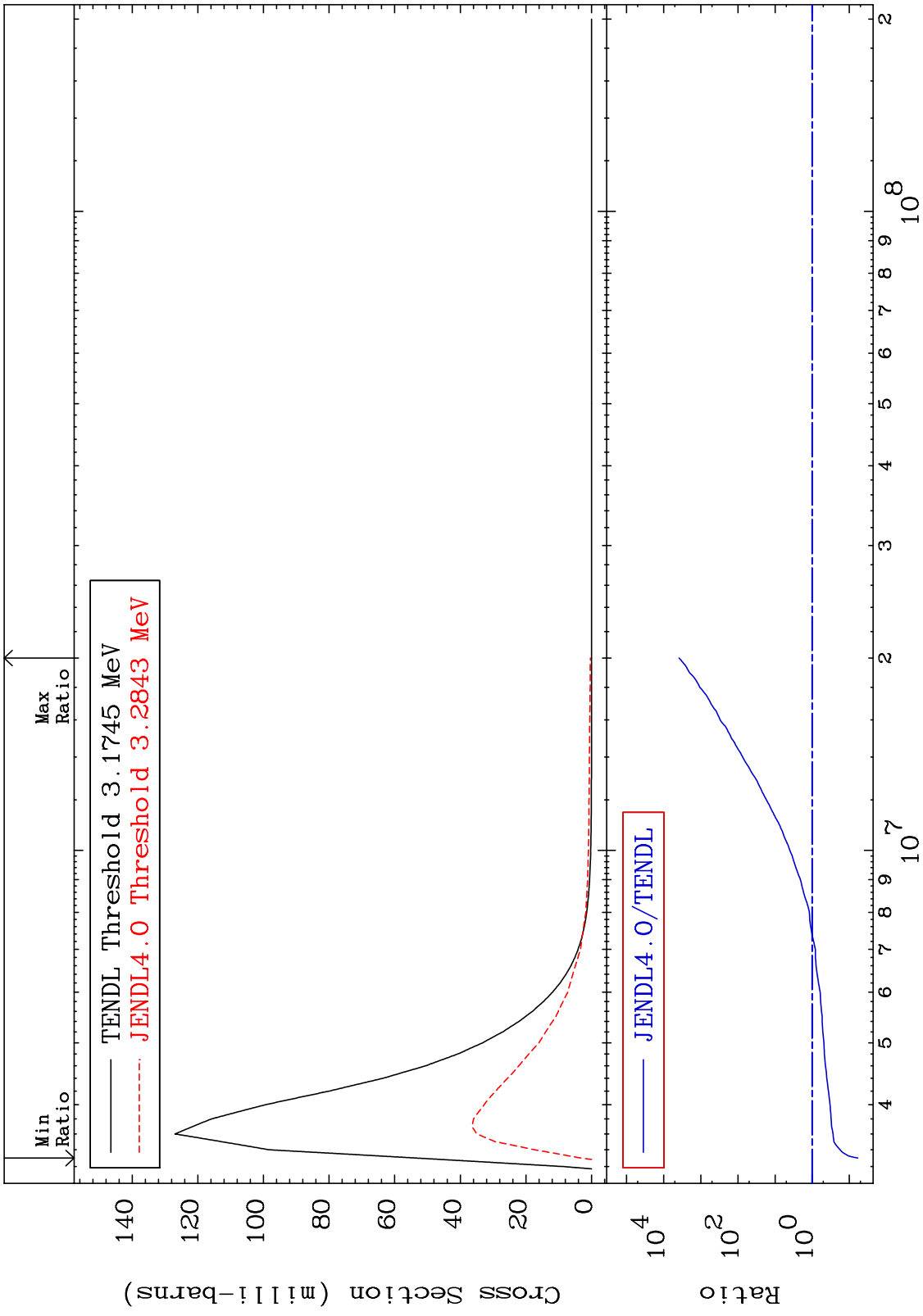
-53.82 To 9999. %
39-Y -89



MAT 3925 MT= 63 (n,n') Level Cross Section 39-Y -89
 -98.00 To 1.076 %



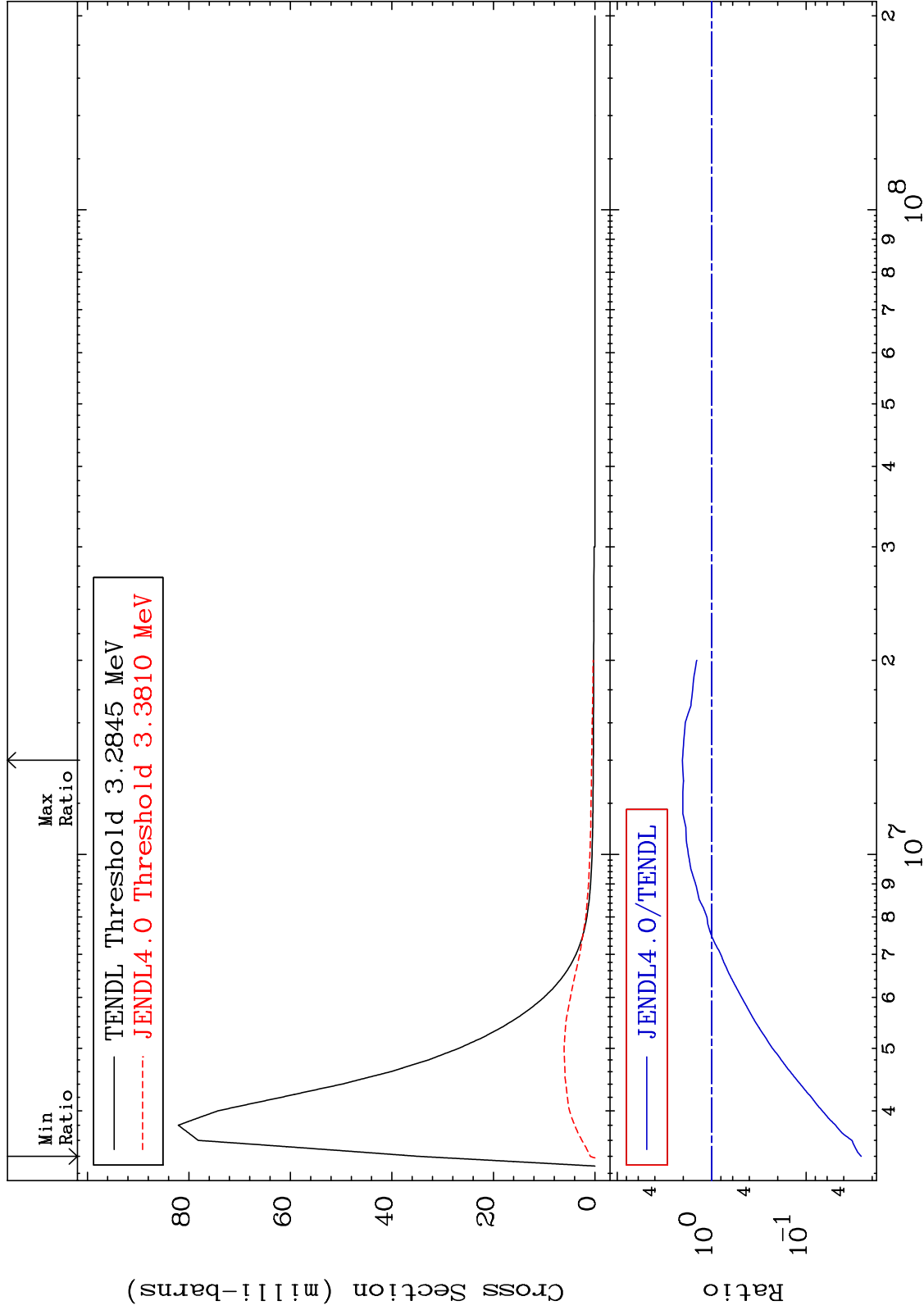
MAT 3925 MT= 64 (n,n') Level Cross Section -94.11 To 9999. % 39-Y -89



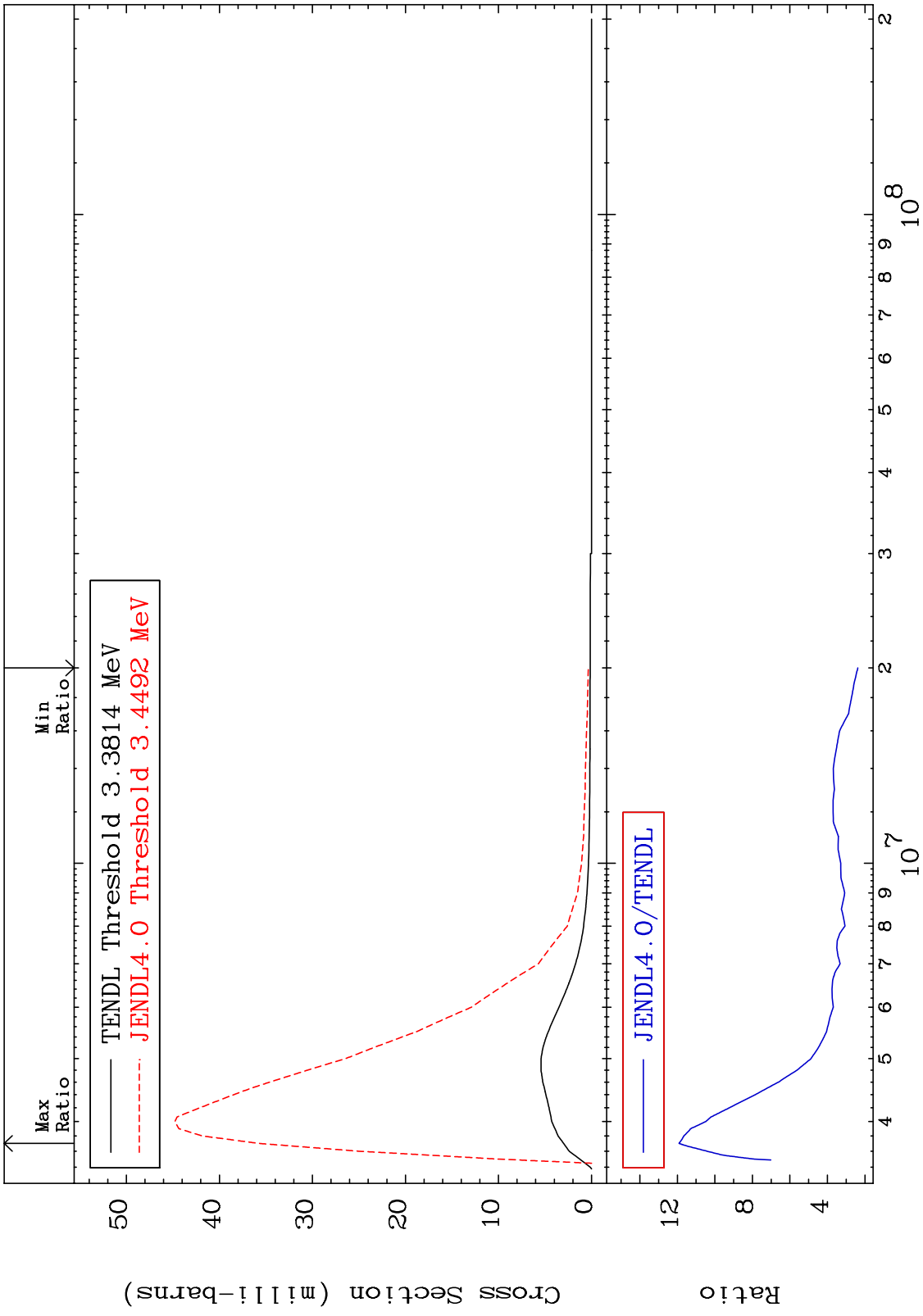
MAT 3925

MT= 65 (n,n') Level
Cross Section

39-Y -89
-97.40 To 103.9 %



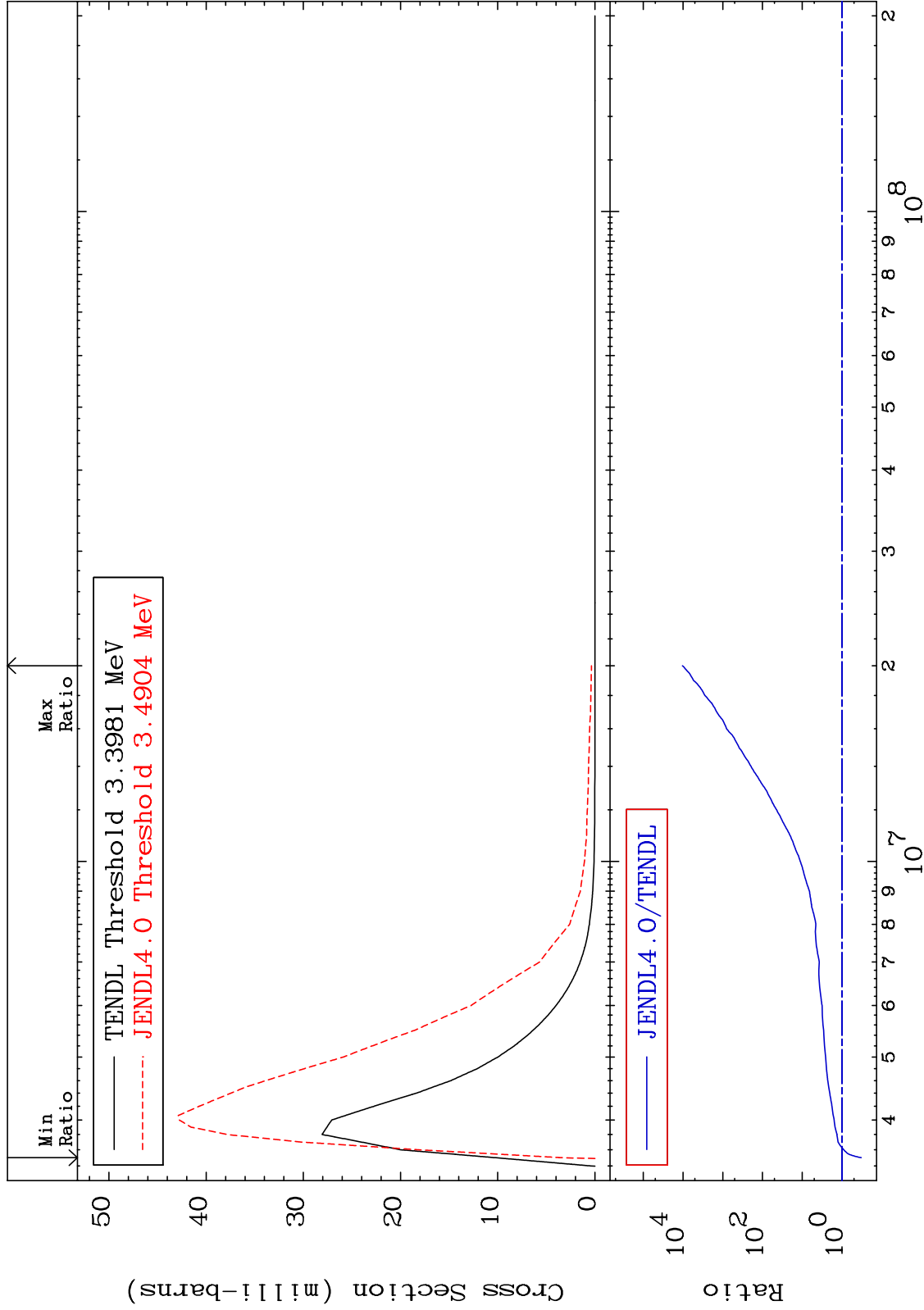
MAT 3925 MT= 66 (n,n') Level Cross Section 137.8 To 1091. % 39-Y -89



MAT 3925

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

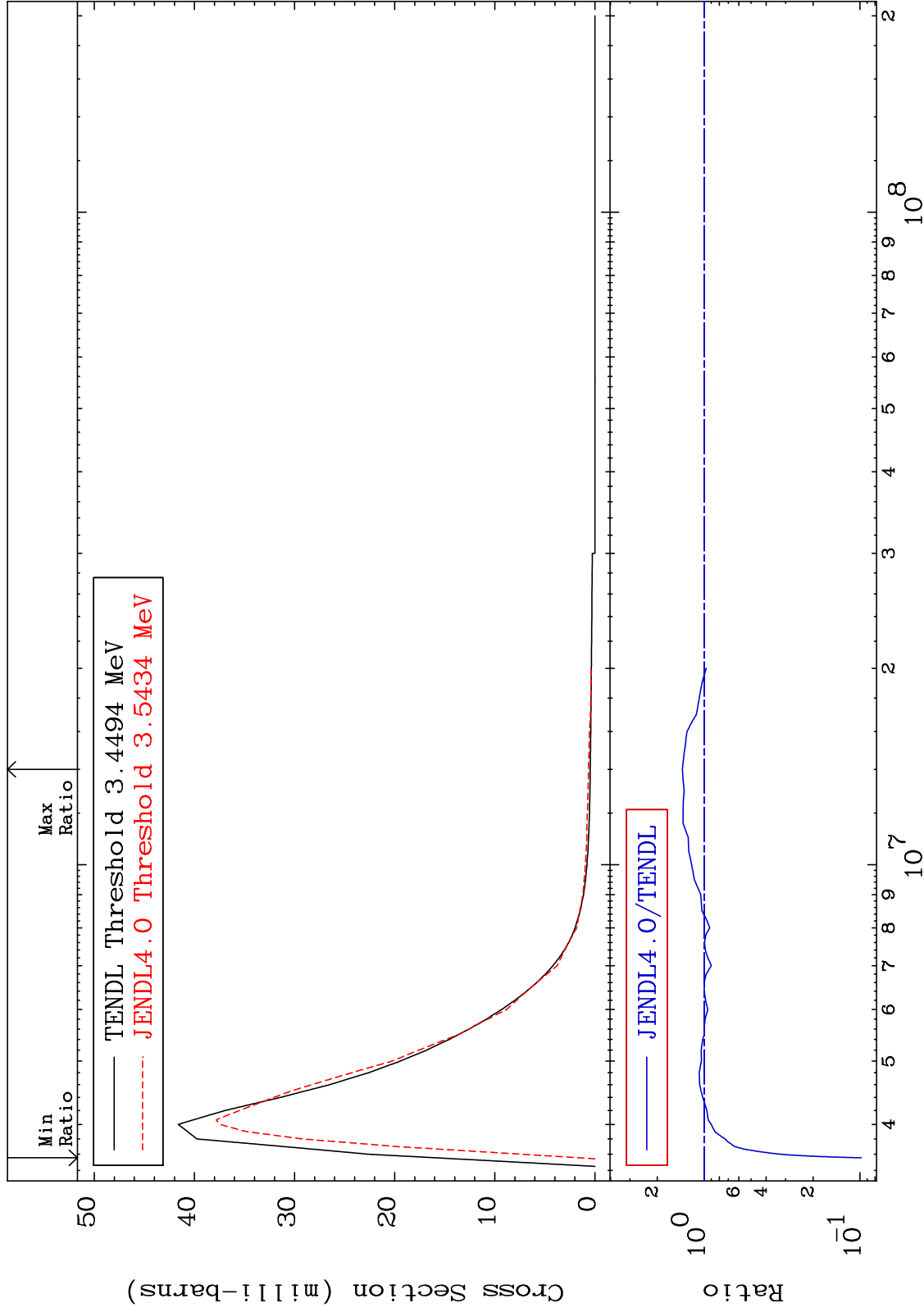
39-Y -89
-67.18 To 9999. %



MAT 3925

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

39-Y -89
-90.19 To 37.87 %

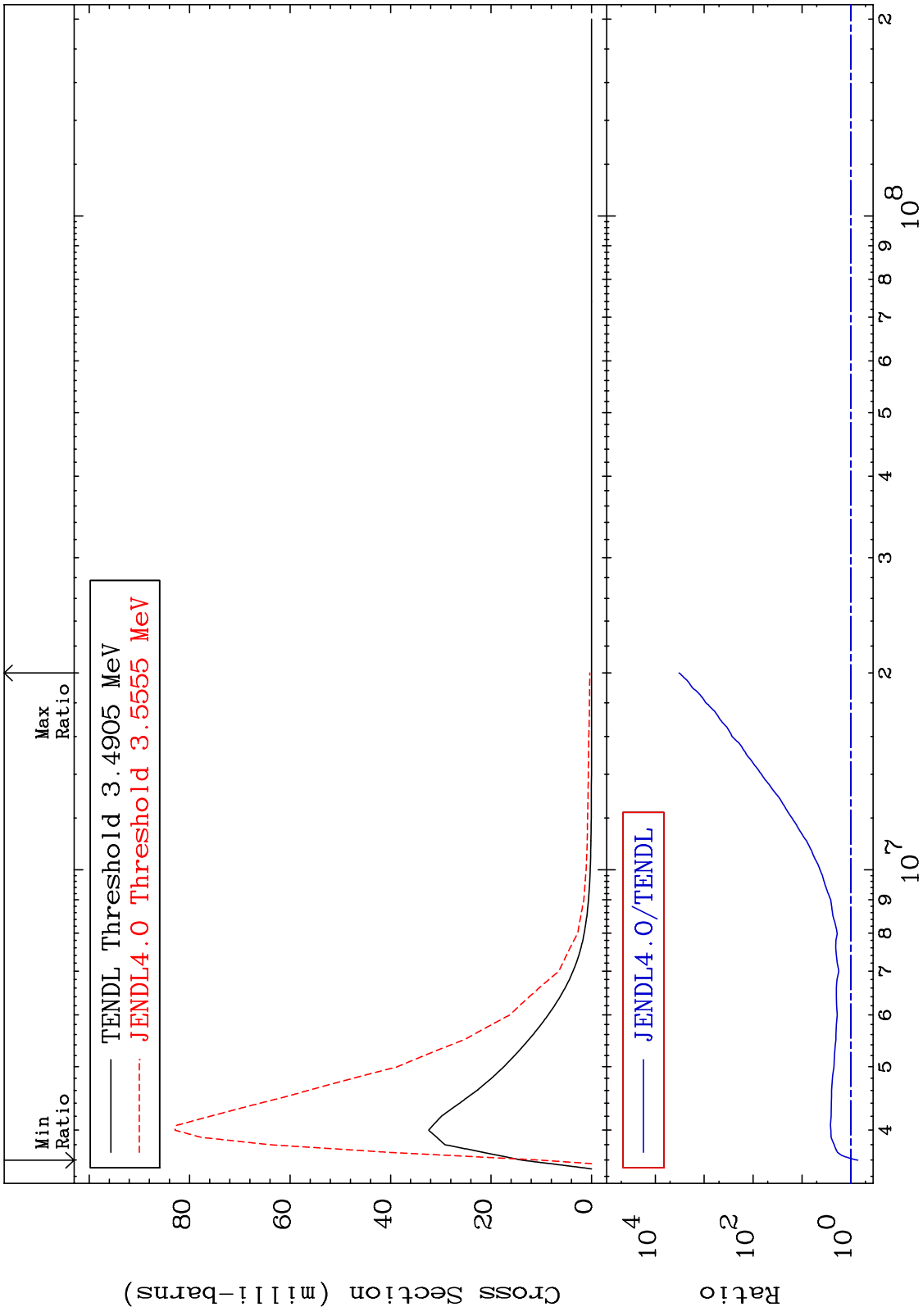


25

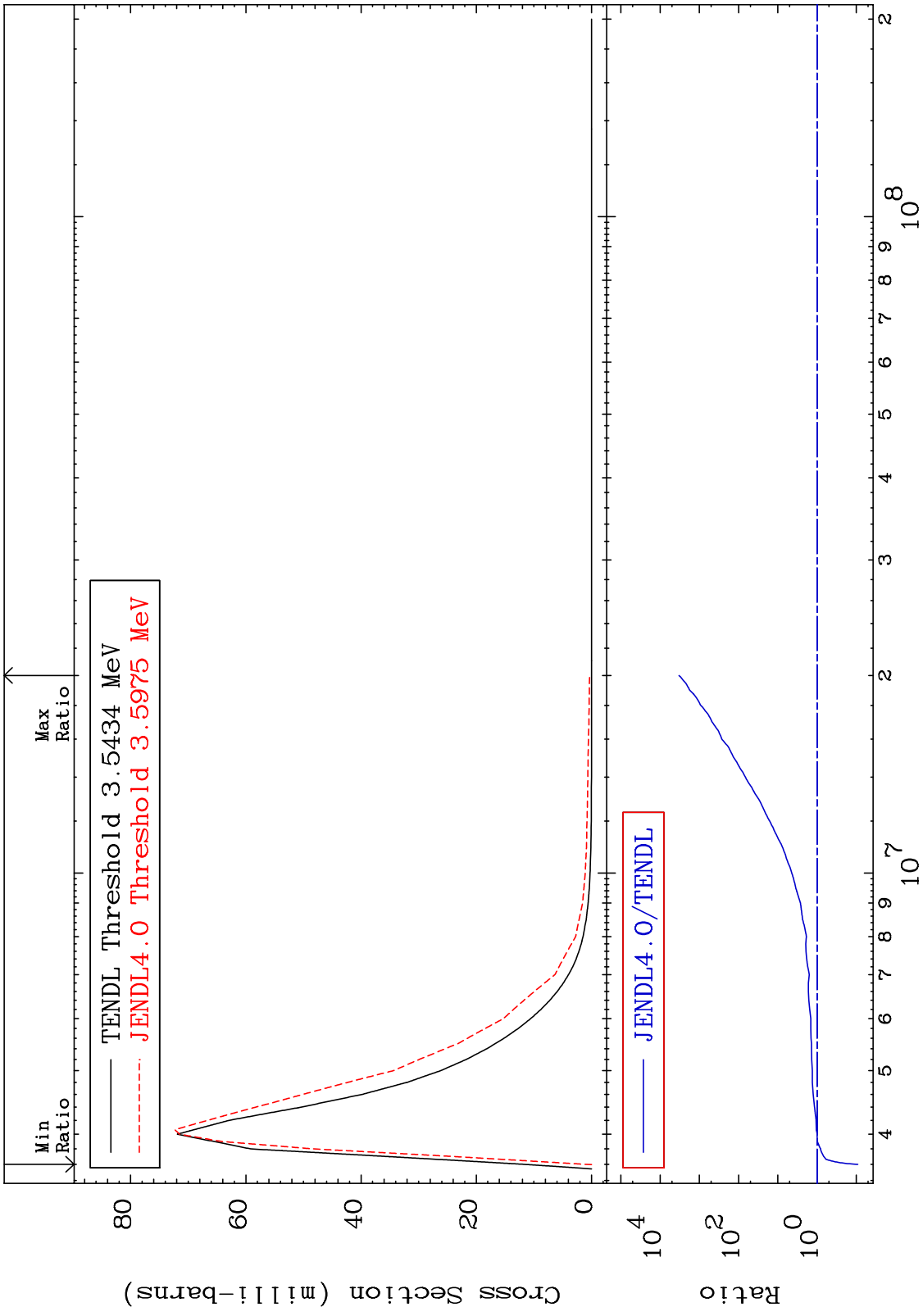
Incident Energy (eV)

39-Y -89

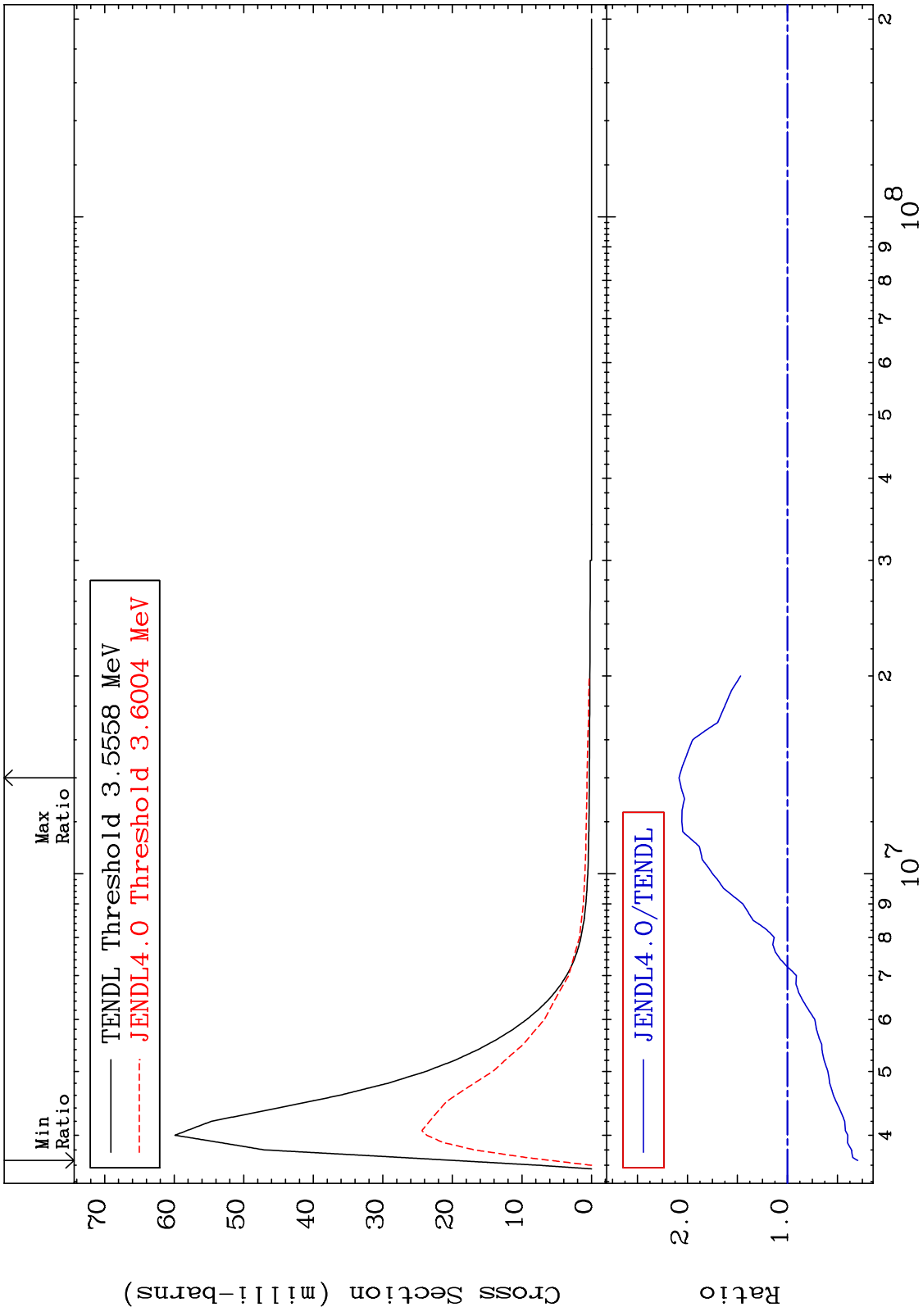
MAT 3925 MT= 69 (n,n') Level Cross Section -28.18 To 9999. % 39-Y -89



MAT 3925 MT= 70 (n,n') Level Cross Section -90.86 To 9999. % 39-Y -89



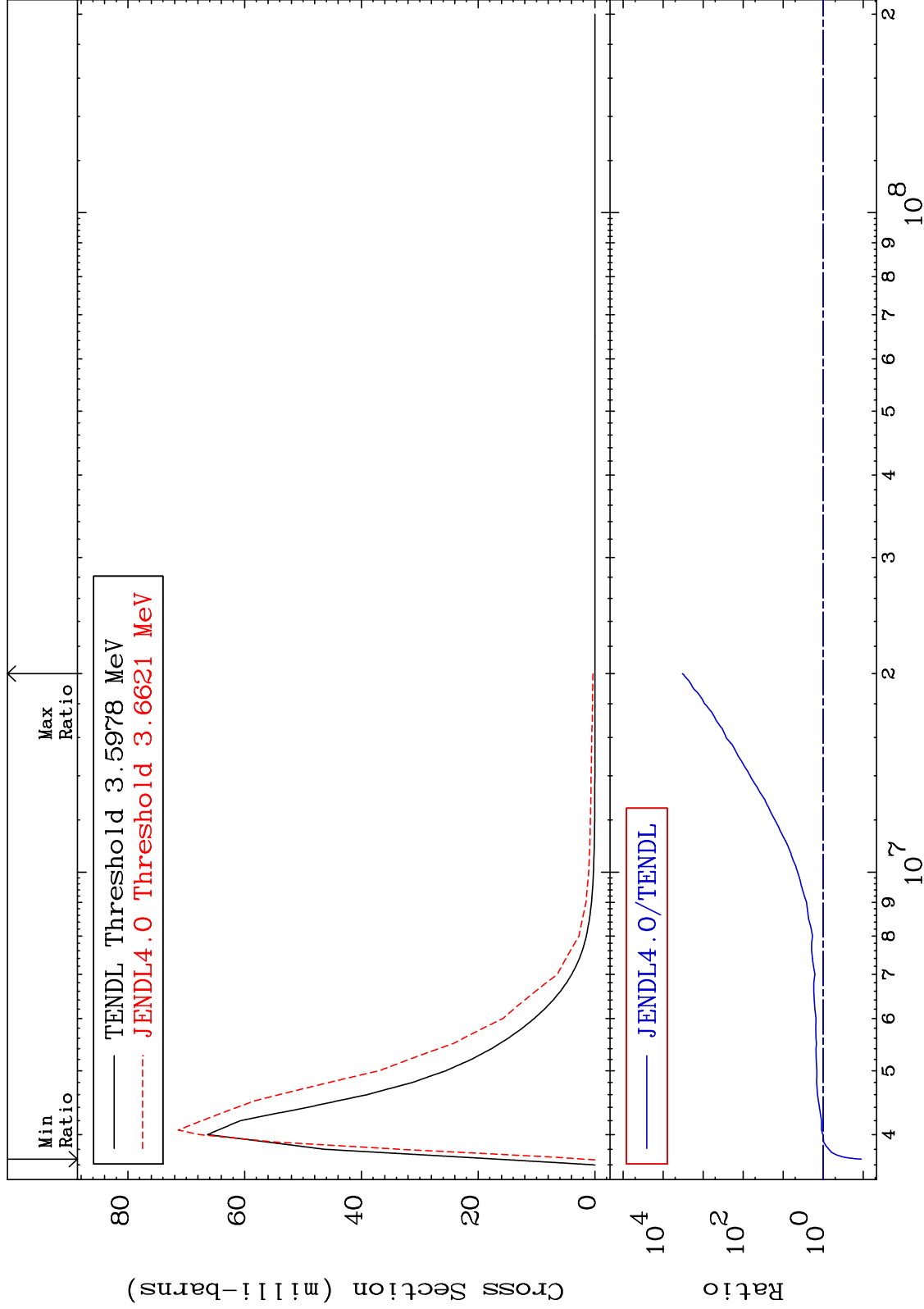
MAT 3925 MT= 71 (n,n') Level Cross Section -70.49 To 108.4 % 39-Y -89



MAT 3925

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

39-Y -89
-88.79 To 9999. %



29

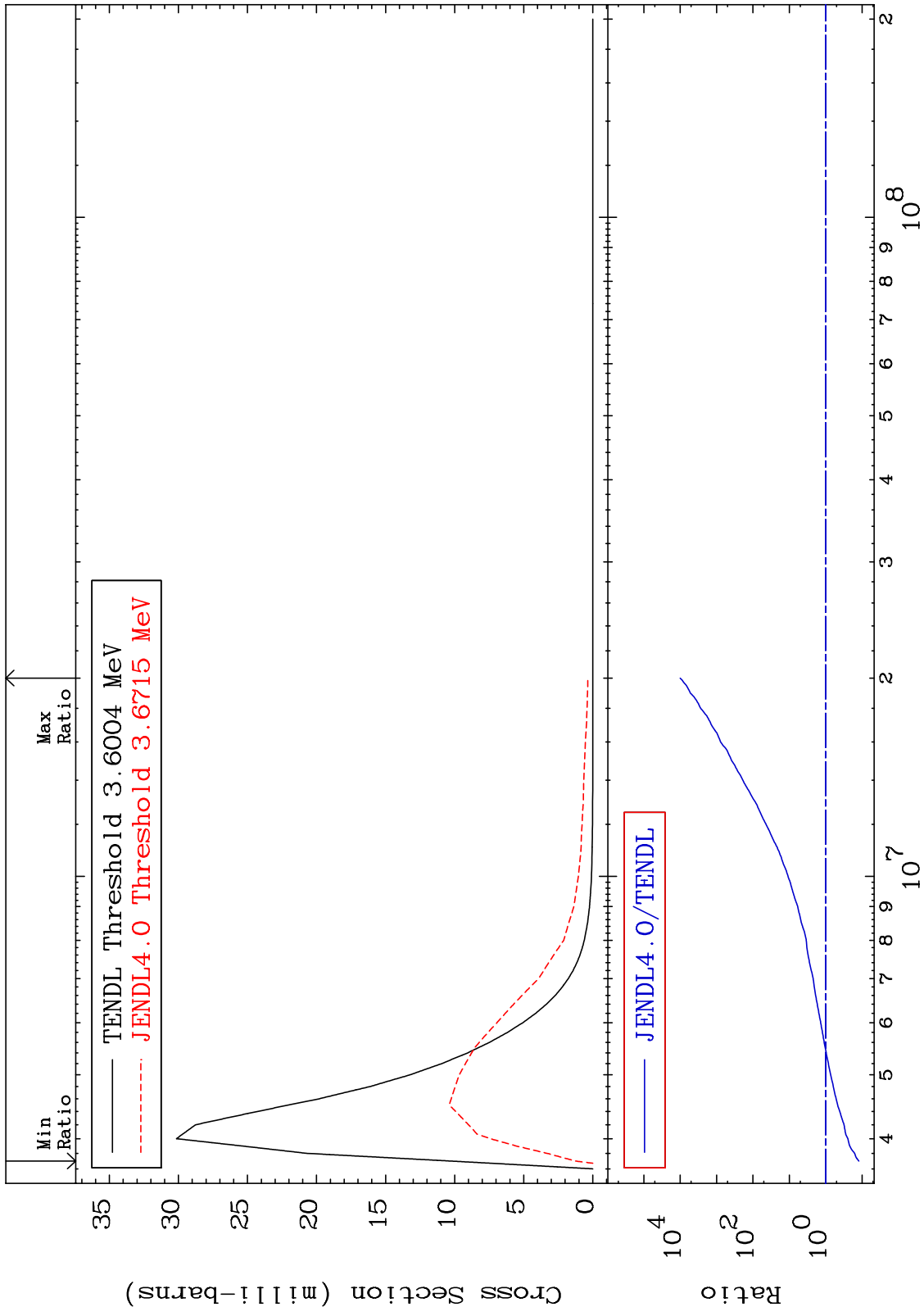
Incident Energy (eV)

39-Y -89

MAT 3925

MT= 73 (n,n') Level
Cross Section

39-Y -89
-87.78 To 9999. %

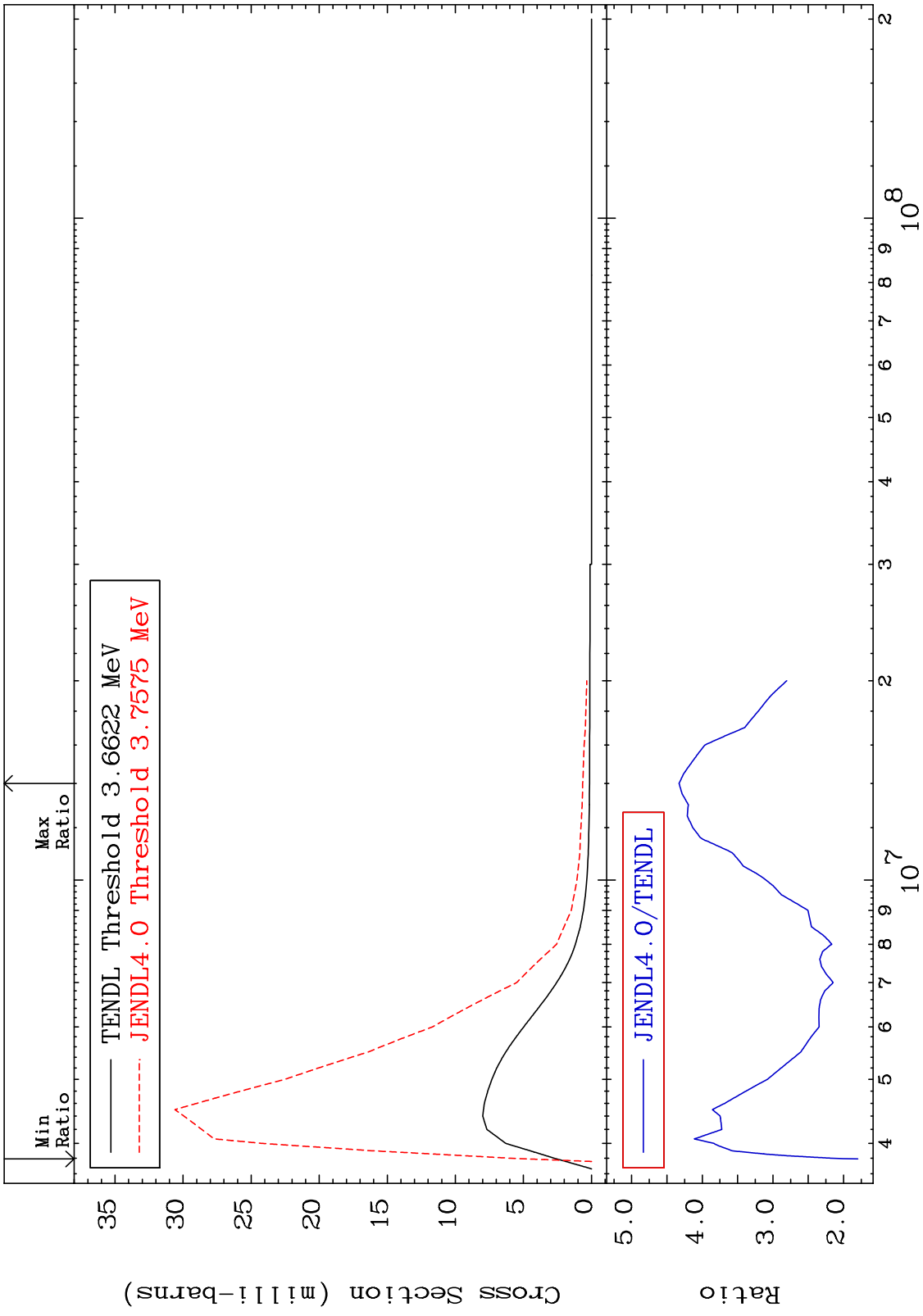


30

Incident Energy (eV)

39-Y -89

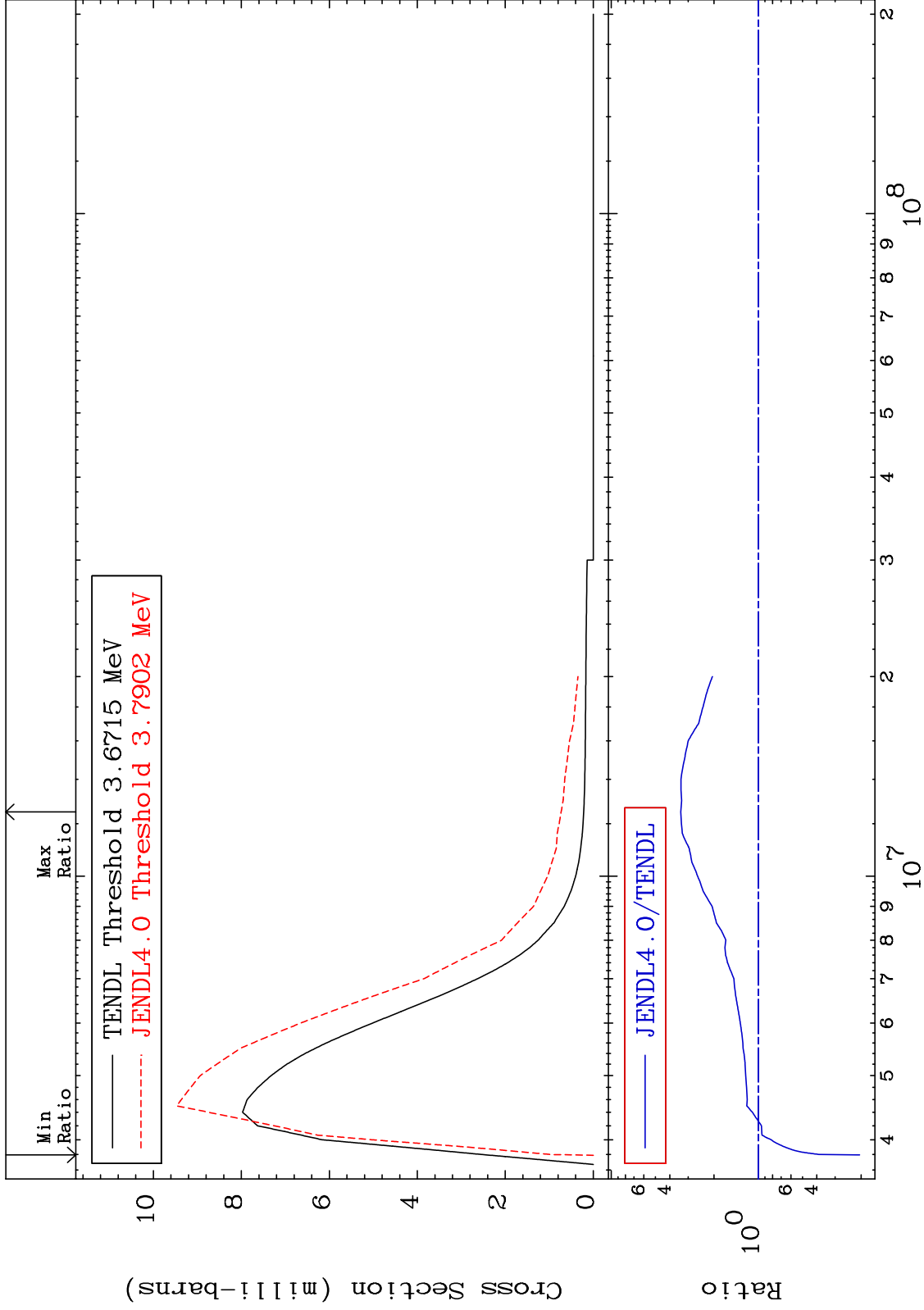
MAT 3925 MT= 74 (n,n') Level Cross Section 79.82 To 332.9 % 39-Y -89



MAT 3925

MT= 75 (n,n') Level
Cross Section

39-Y -89
-79.54 To 236.3 %



32

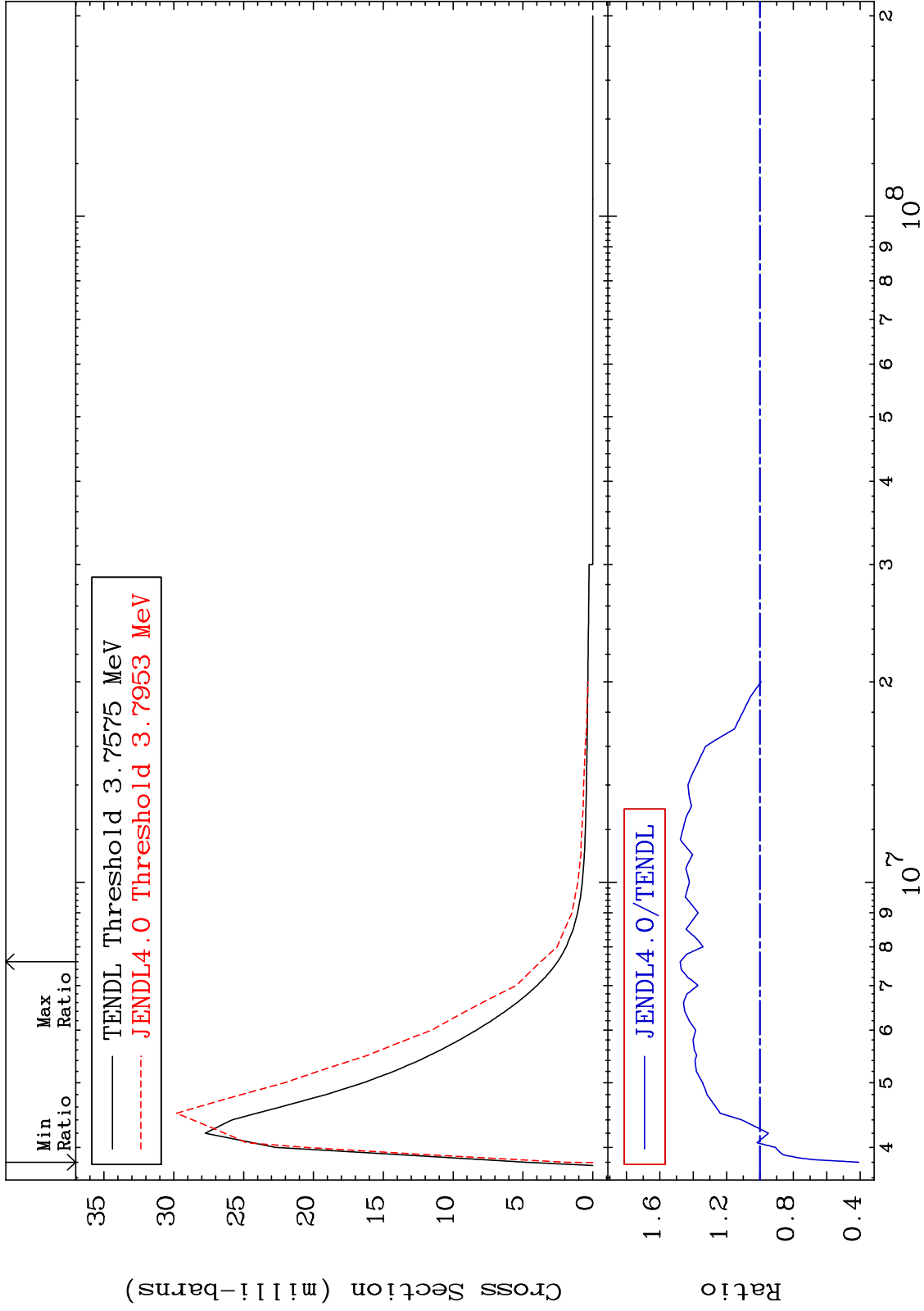
Incident Energy (eV)

39-Y -89

MAT 3925

MT= 76 (n,n') Level
Cross Section

39-Y -89
-59.28 To 47.79 %



33

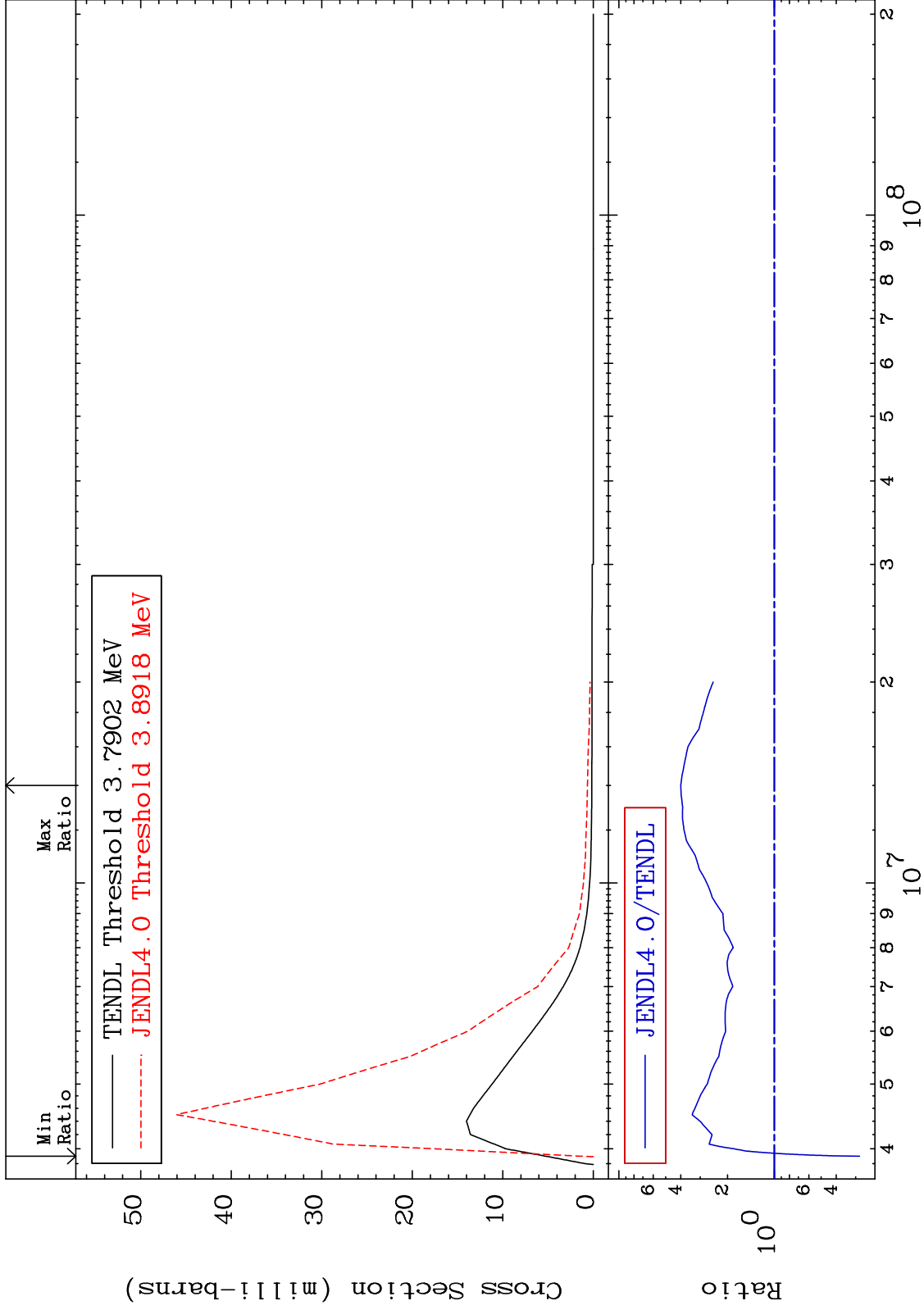
Incident Energy (eV)

39-Y -89

MAT 3925

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

39-Y -89
-71.76 To 299.2 %

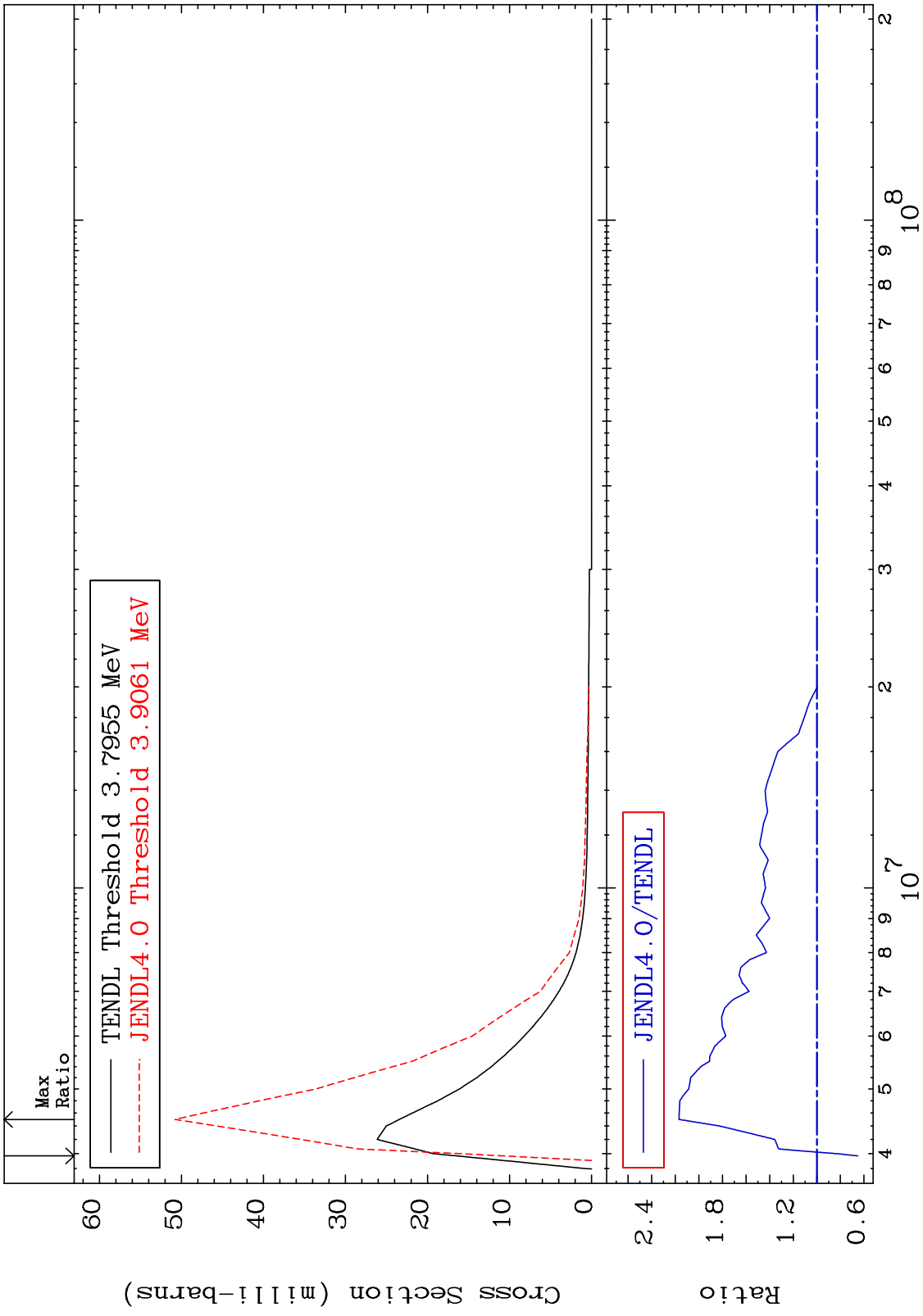


34

Incident Energy (eV)

39-Y -89

MAT 3925 MT= 78 (n,n') Level Cross Section -34.78 To 116.8 % 39-Y -89

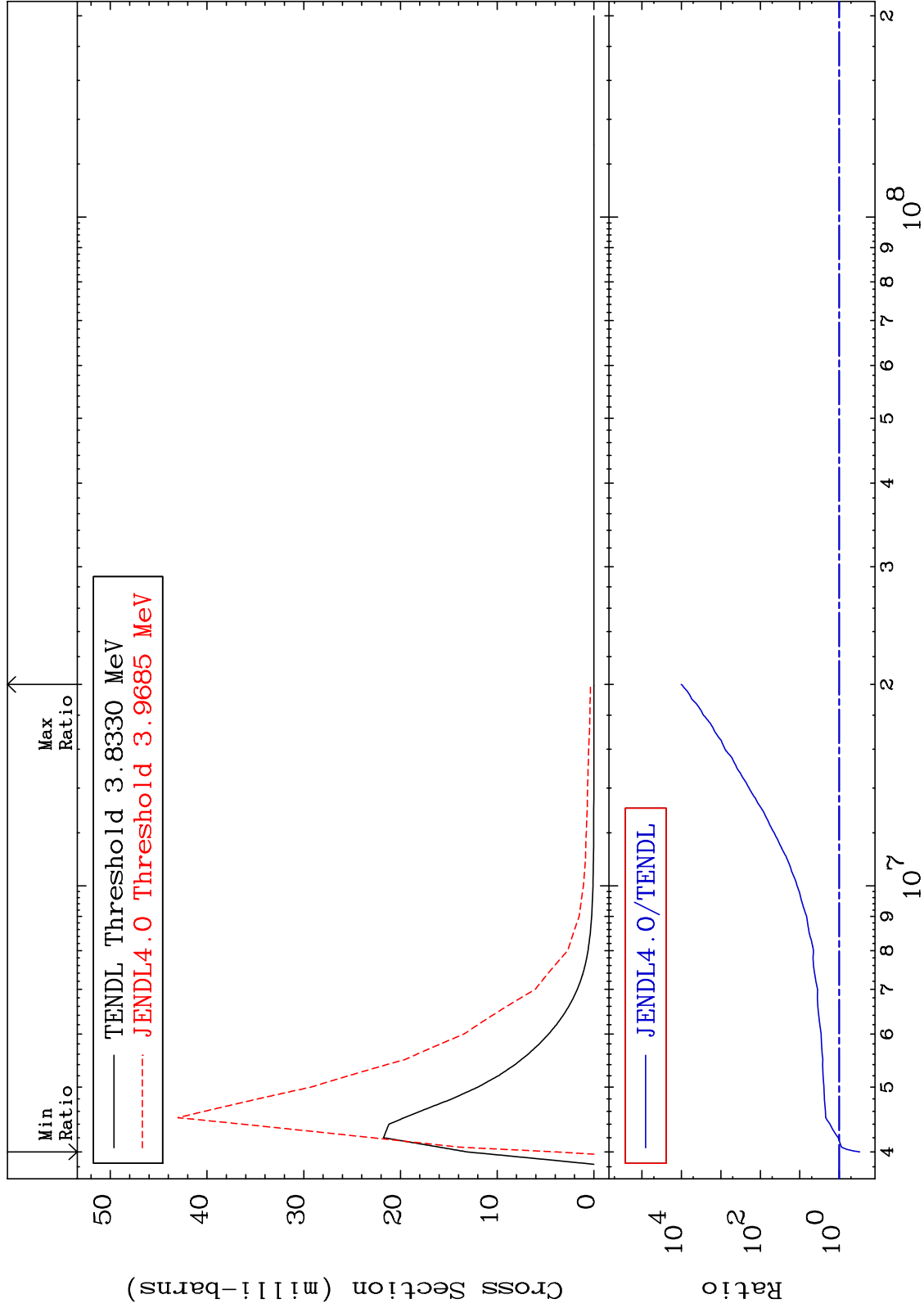


35 39-Y -89

MAT 3925

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

39-Y -89
-69.93 To 9999. %

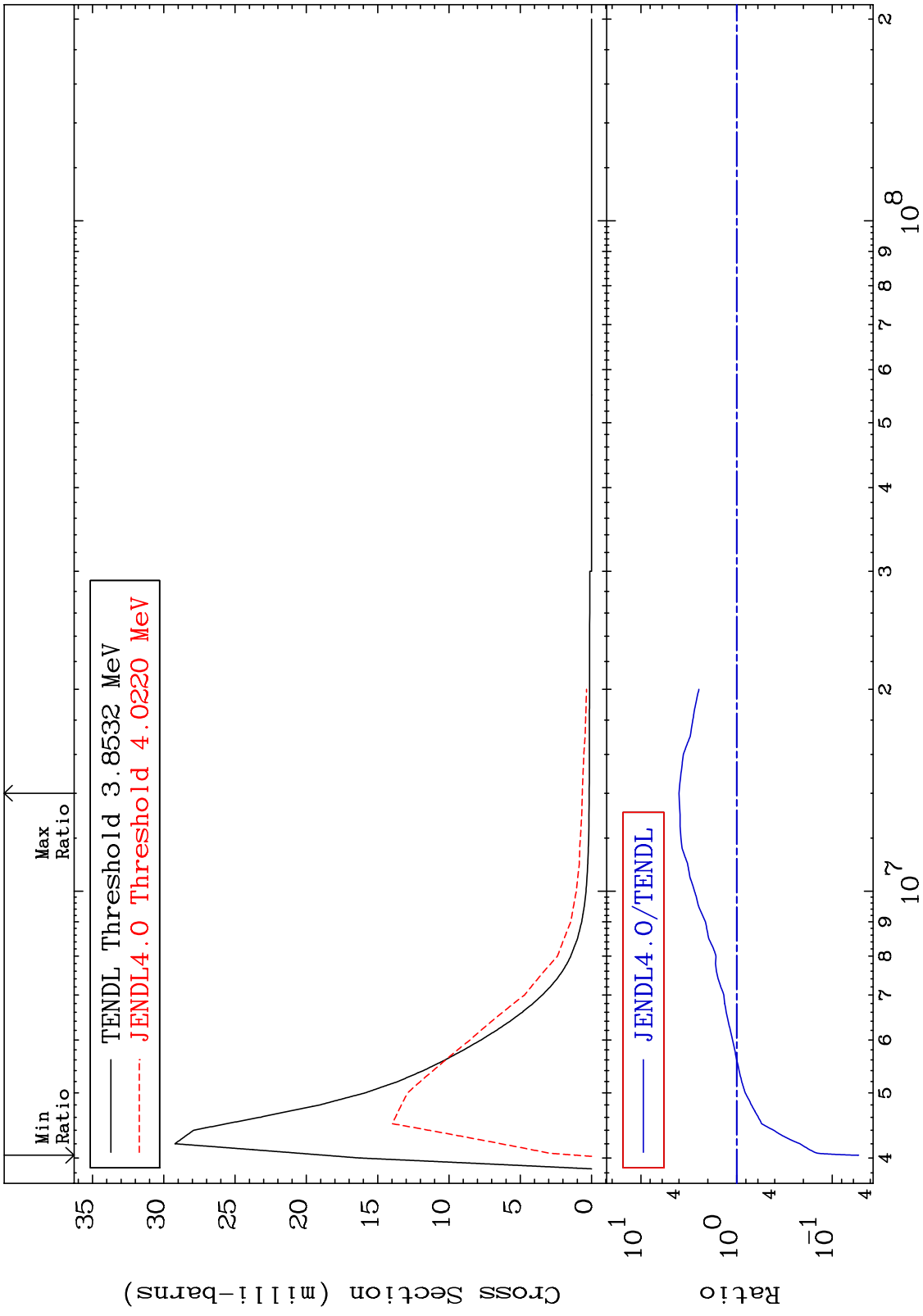


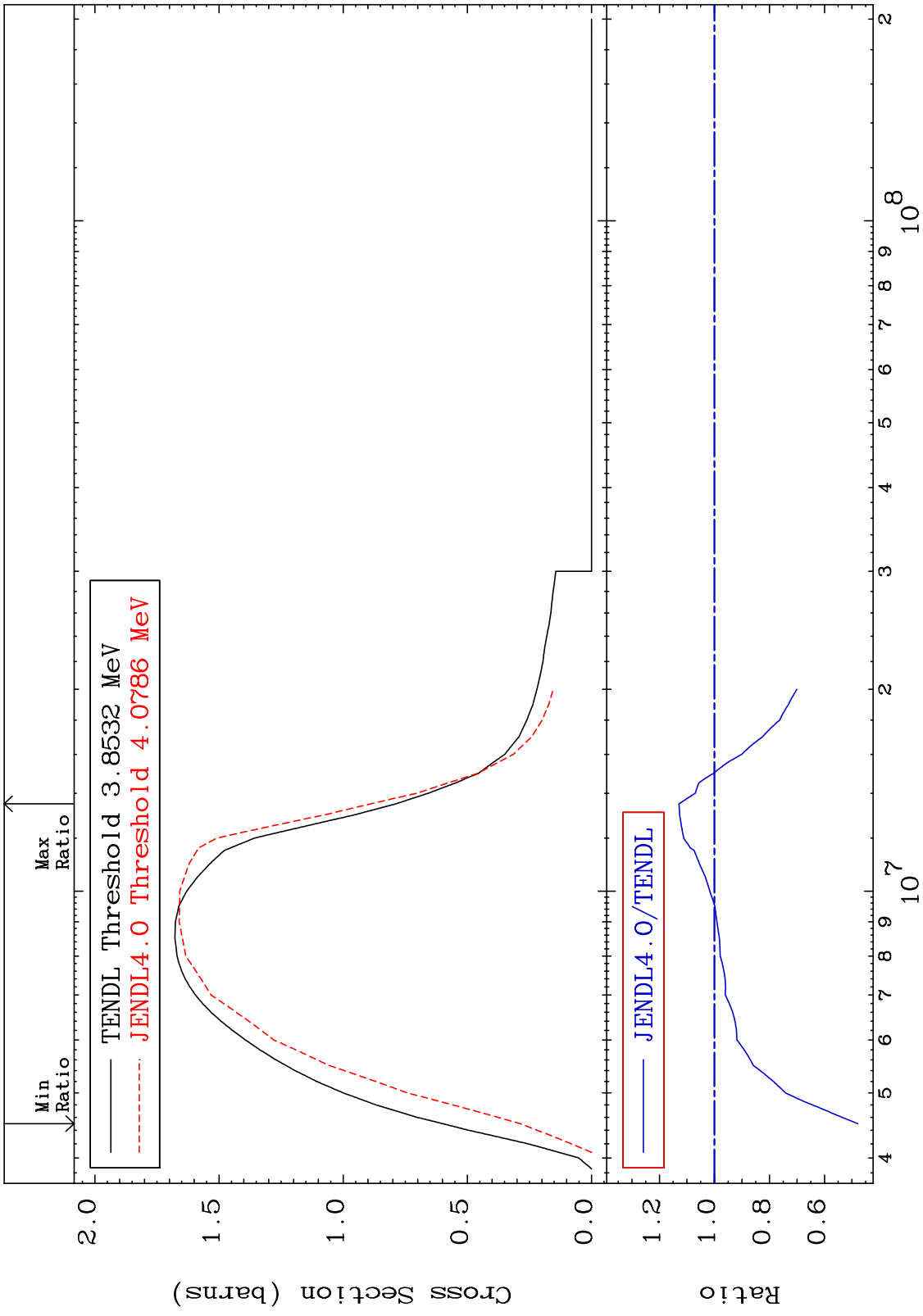
36

Incident Energy (eV)

39-Y -89

MAT 3925 MT= 80 (n,n') Level Cross Section 39-Y -89
 -94.60 To 299.6 %





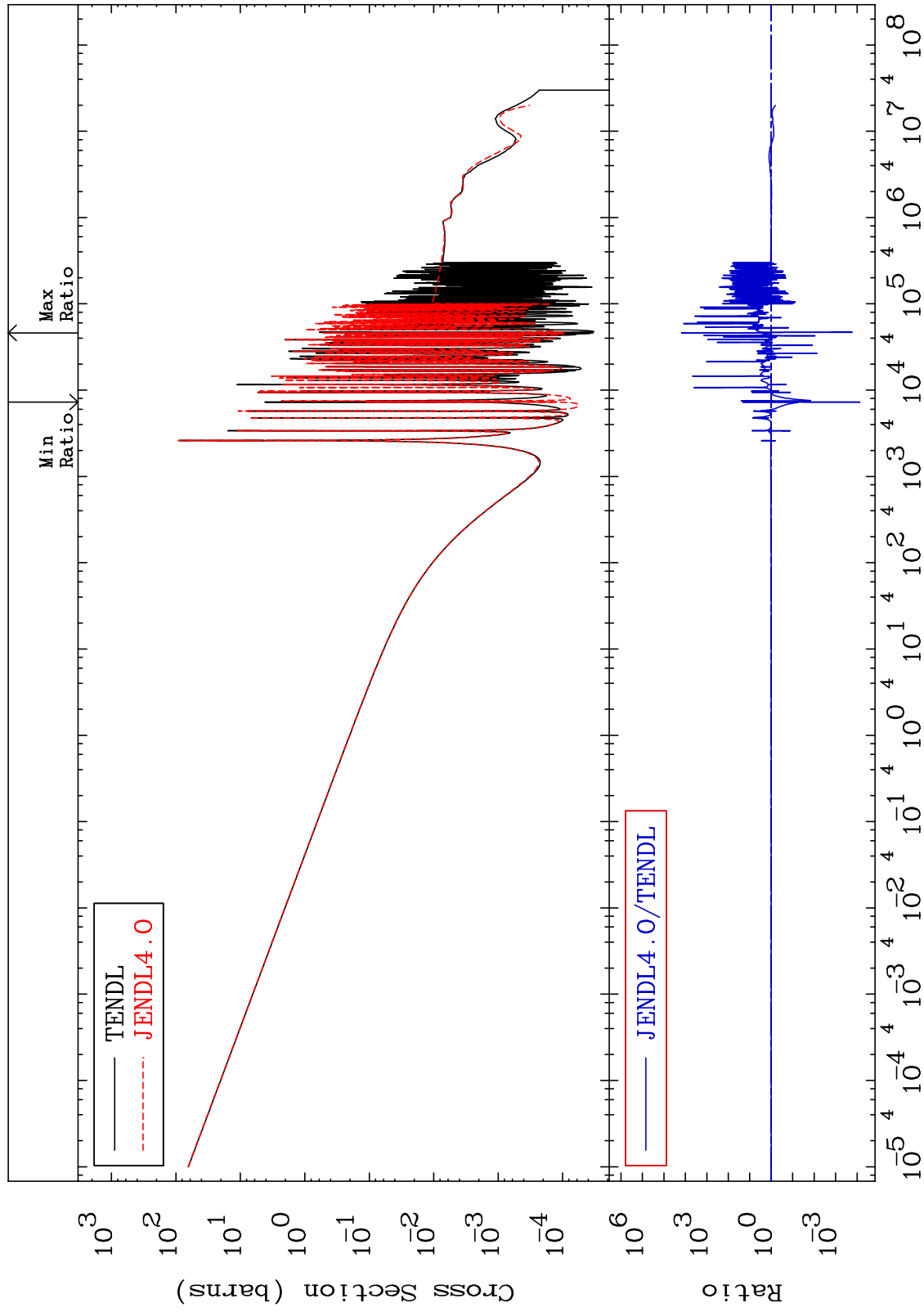
MAT 3925

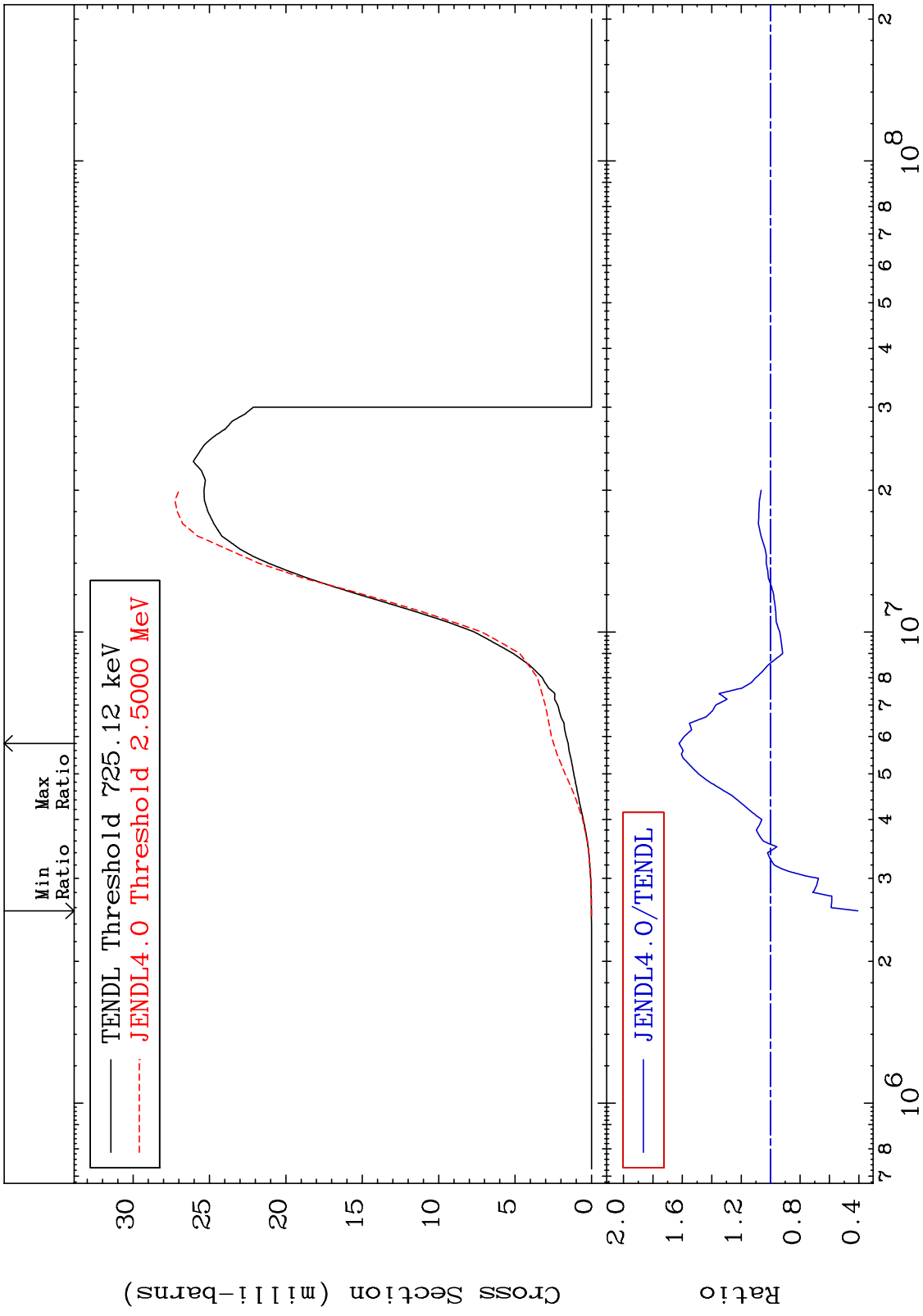
(n, γ)

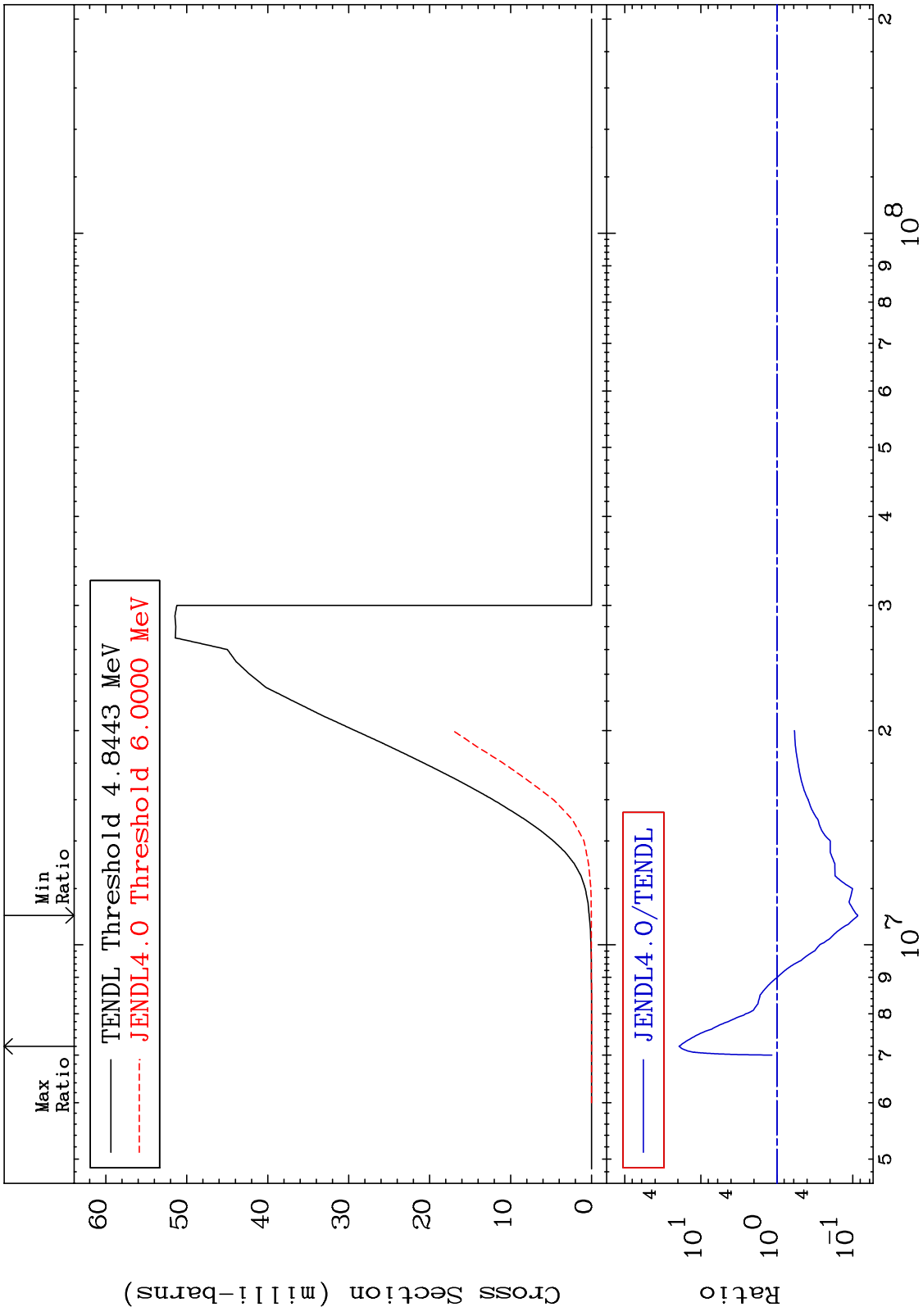
39-Y -89

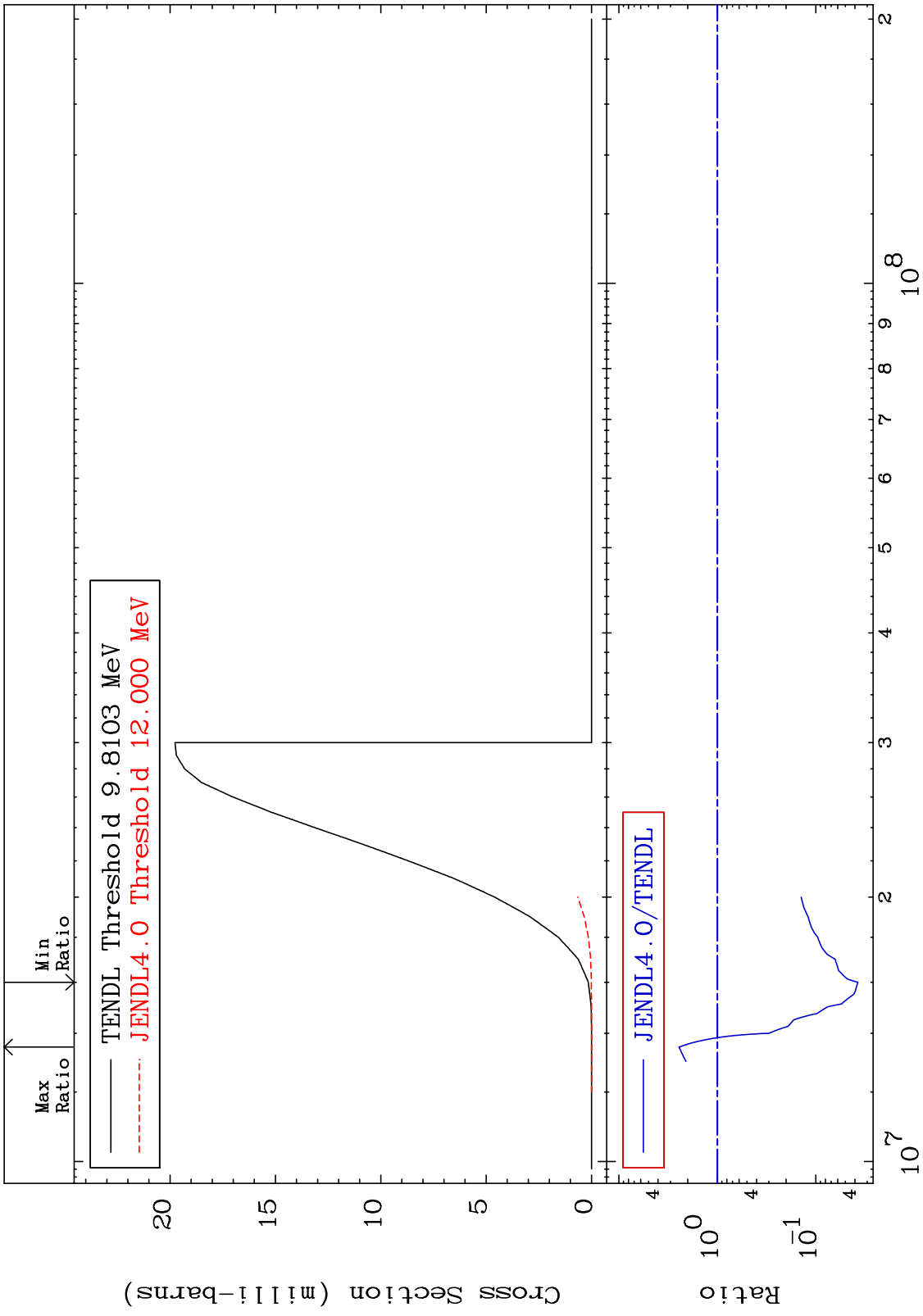
Cross Section

-99.99 To 9999. %









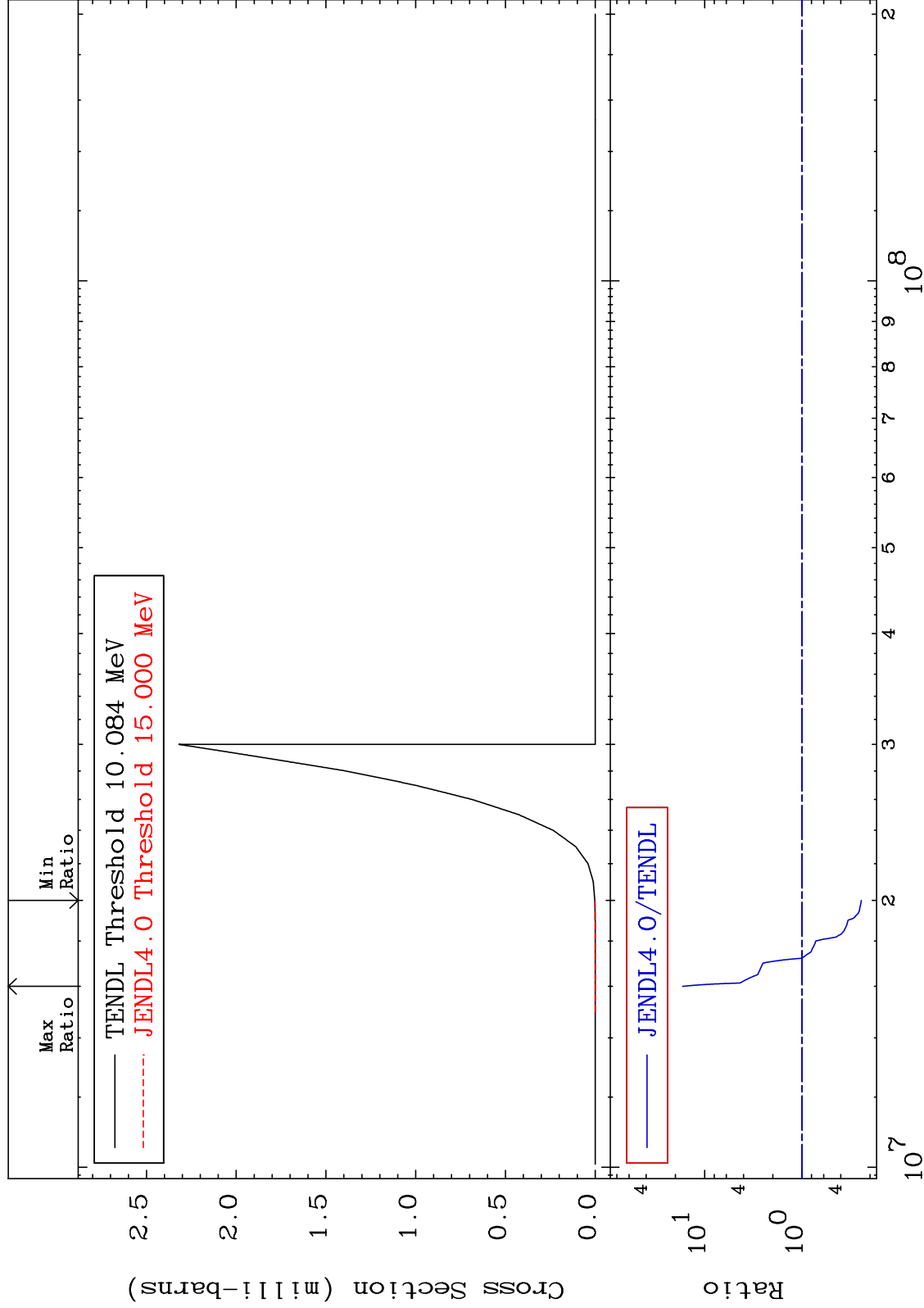
MAT 3925

(n, He-3)

39-Y -89

Cross Section

-75.38 To 1586. %



43

Incident Energy (eV)

39-Y -89

MAT 3925

(n, α)

39-Y -89

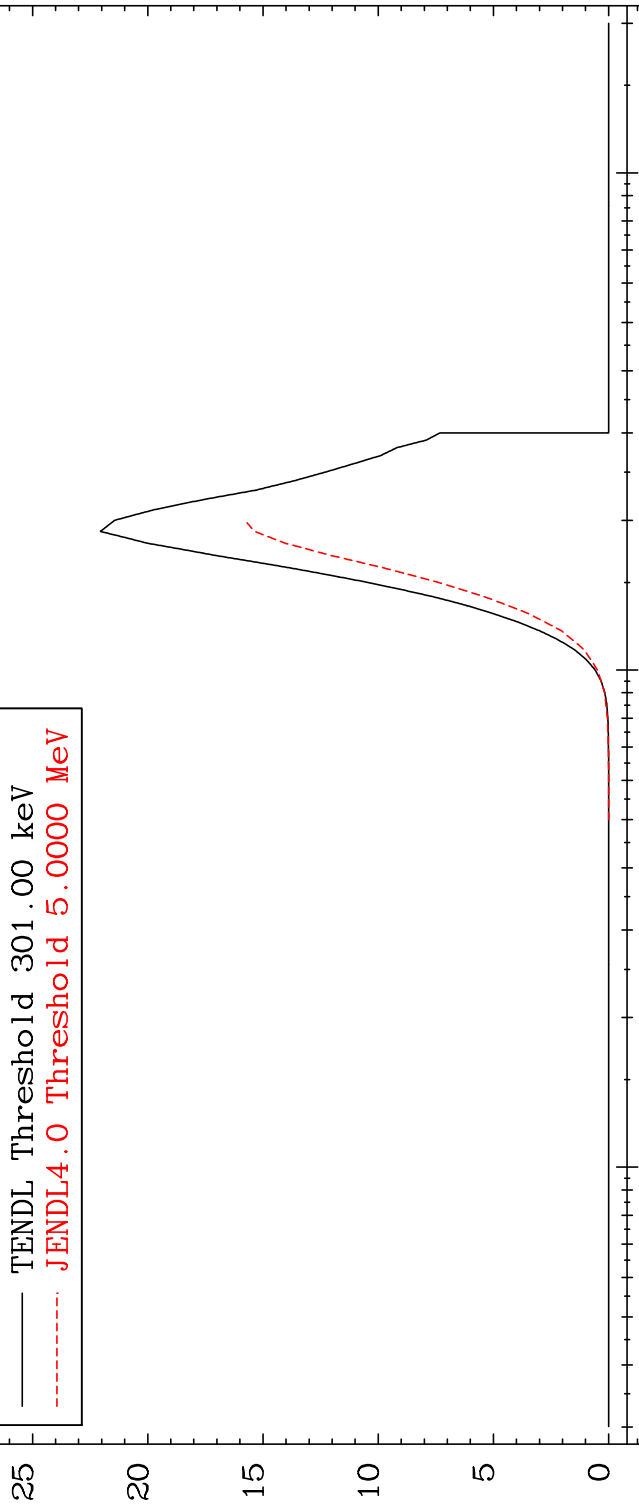
-69.04 To 239.6 %

Cross Section

Min Ratio
Max Ratio

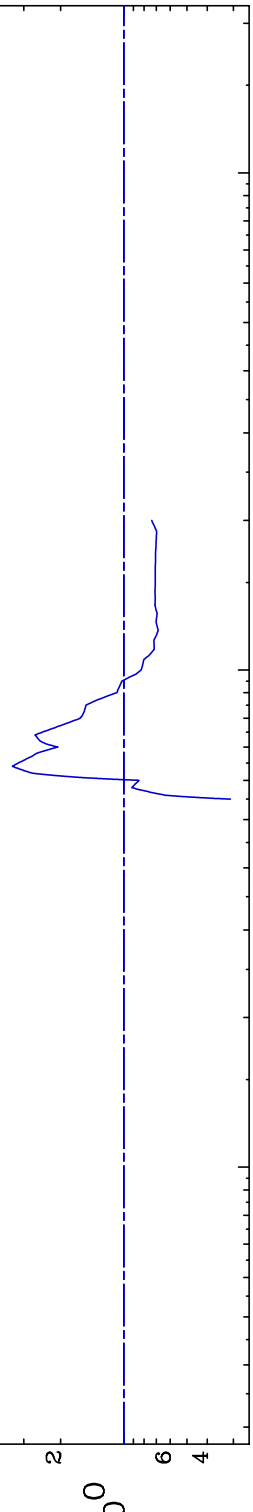
— TENDL Threshold 301.00 keV
- - - JENDL4.0 Threshold 5.0000 MeV

Cross Section (milli-barns)



— JENDL4.0/TENDL

Ratio



44

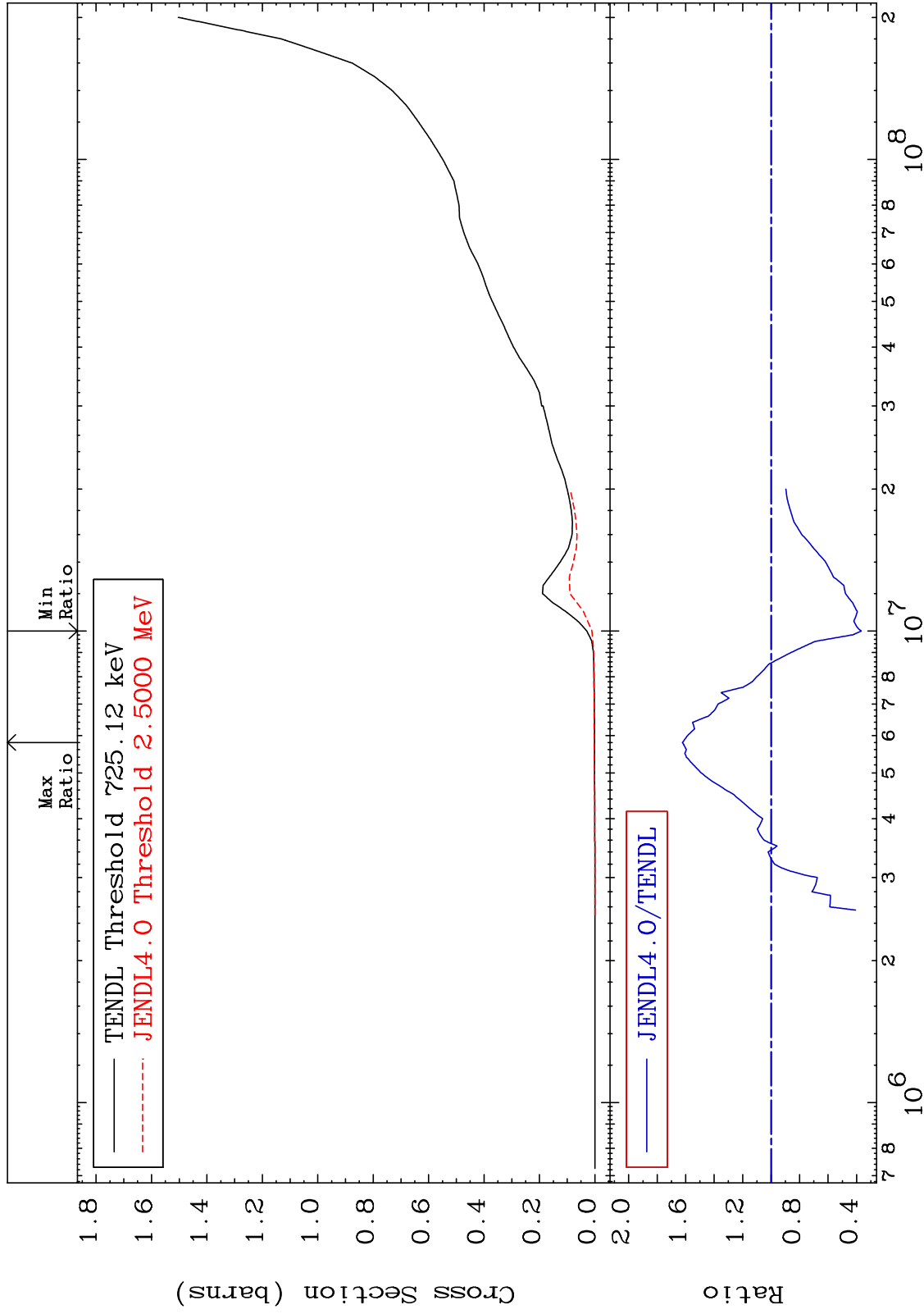
Incident Energy (eV)

39-Y -89

MAT 3925

Hydrogen Production
Cross Section

39-Y -89
-63.31 To 62.25 %



45

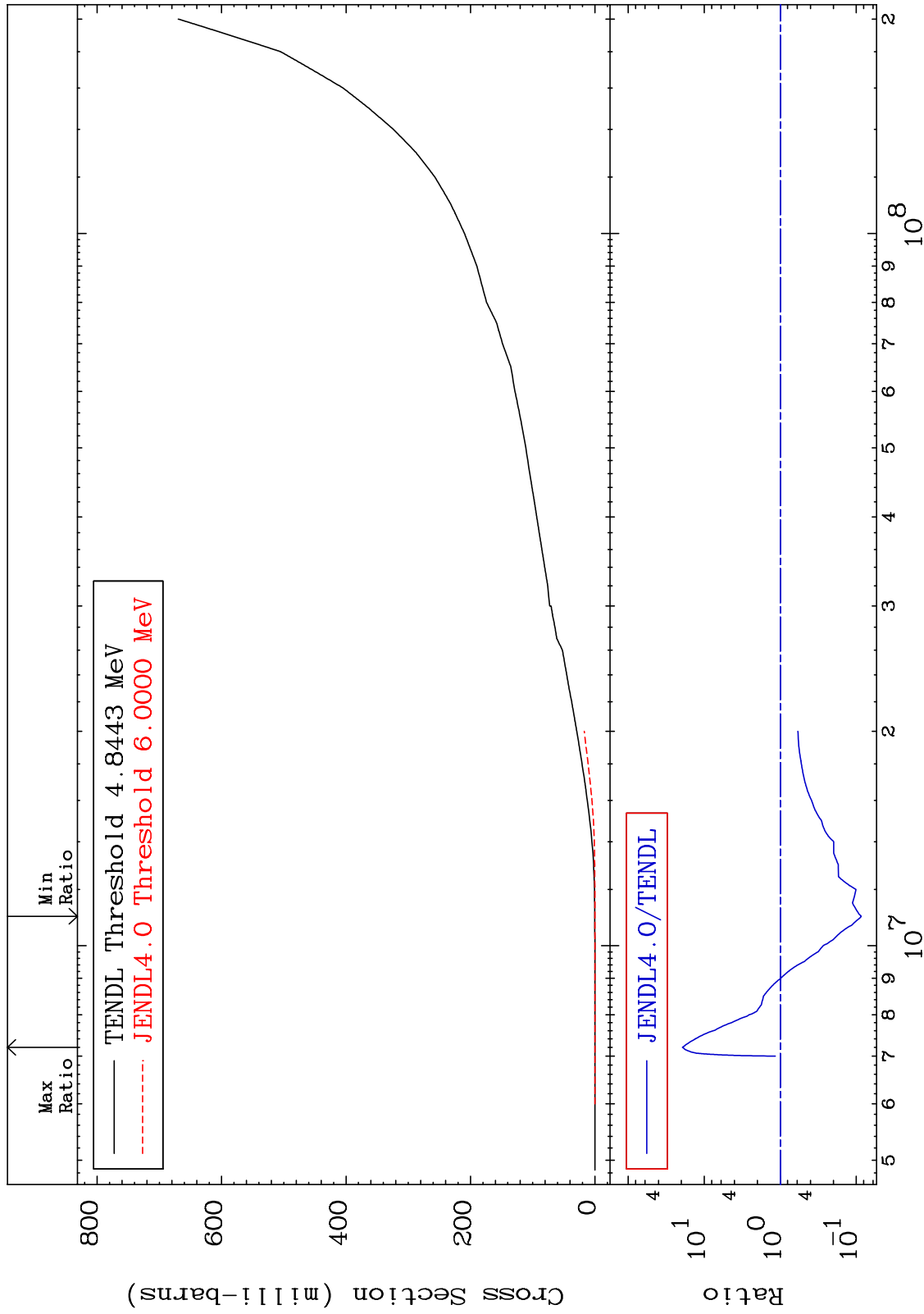
Incident Energy (eV)

39-Y -89

MAT 3925

Deuterium Production
Cross Section

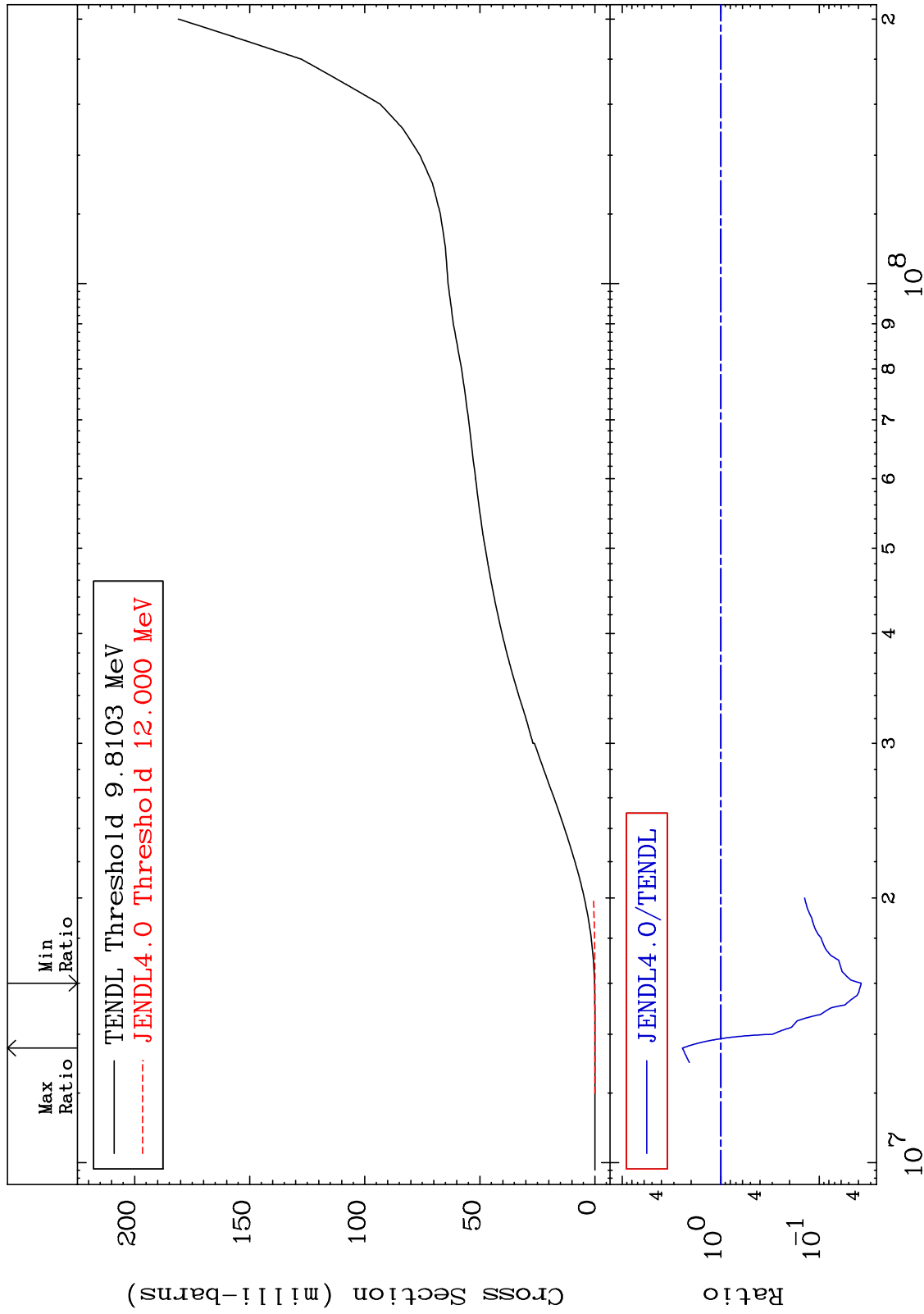
39-Y -89
-91.41 To 1834. %



MAT 3925

Tritium Production
Cross Section

39-Y -89
-96.26 To 145.0 %



47

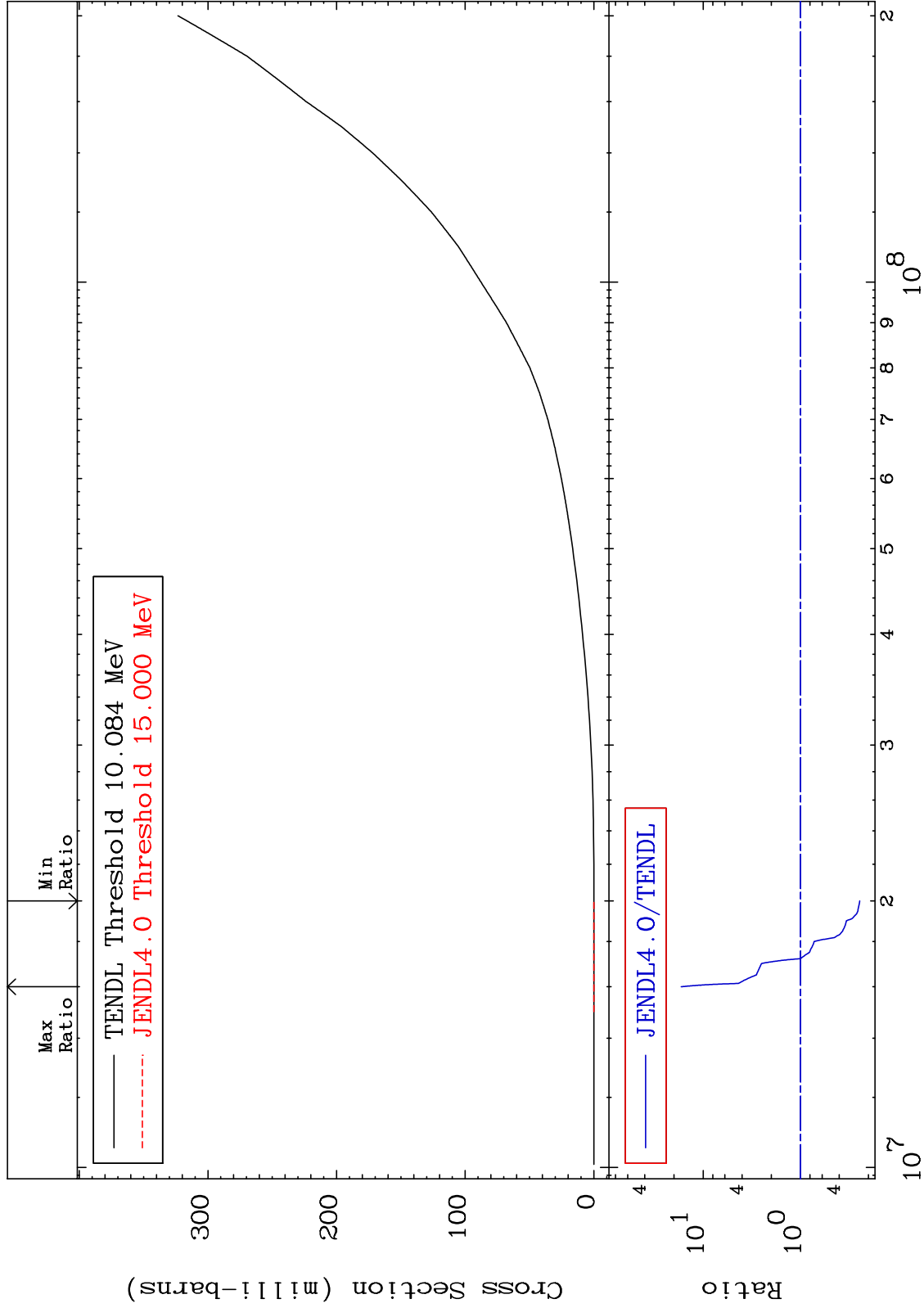
Incident Energy (eV)

39-Y -89

MAT 3925

He-3 Production
Cross Section

39-Y -89
-75.38 To 1586. %



48

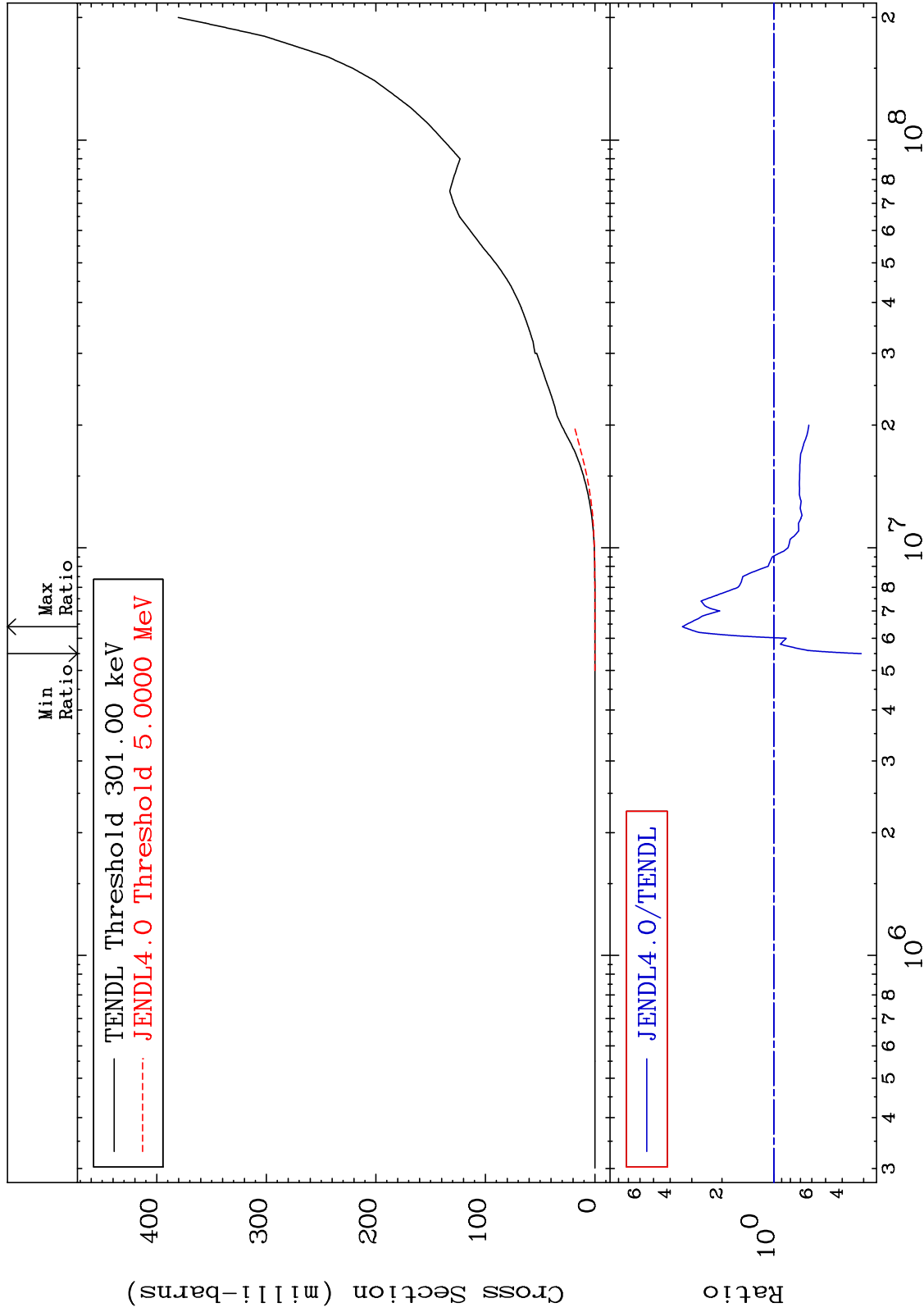
Incident Energy (eV)

39-Y -89

MAT 3925

He-4 Production
Cross Section

39-Y -89
-69.04 To 239.6 %

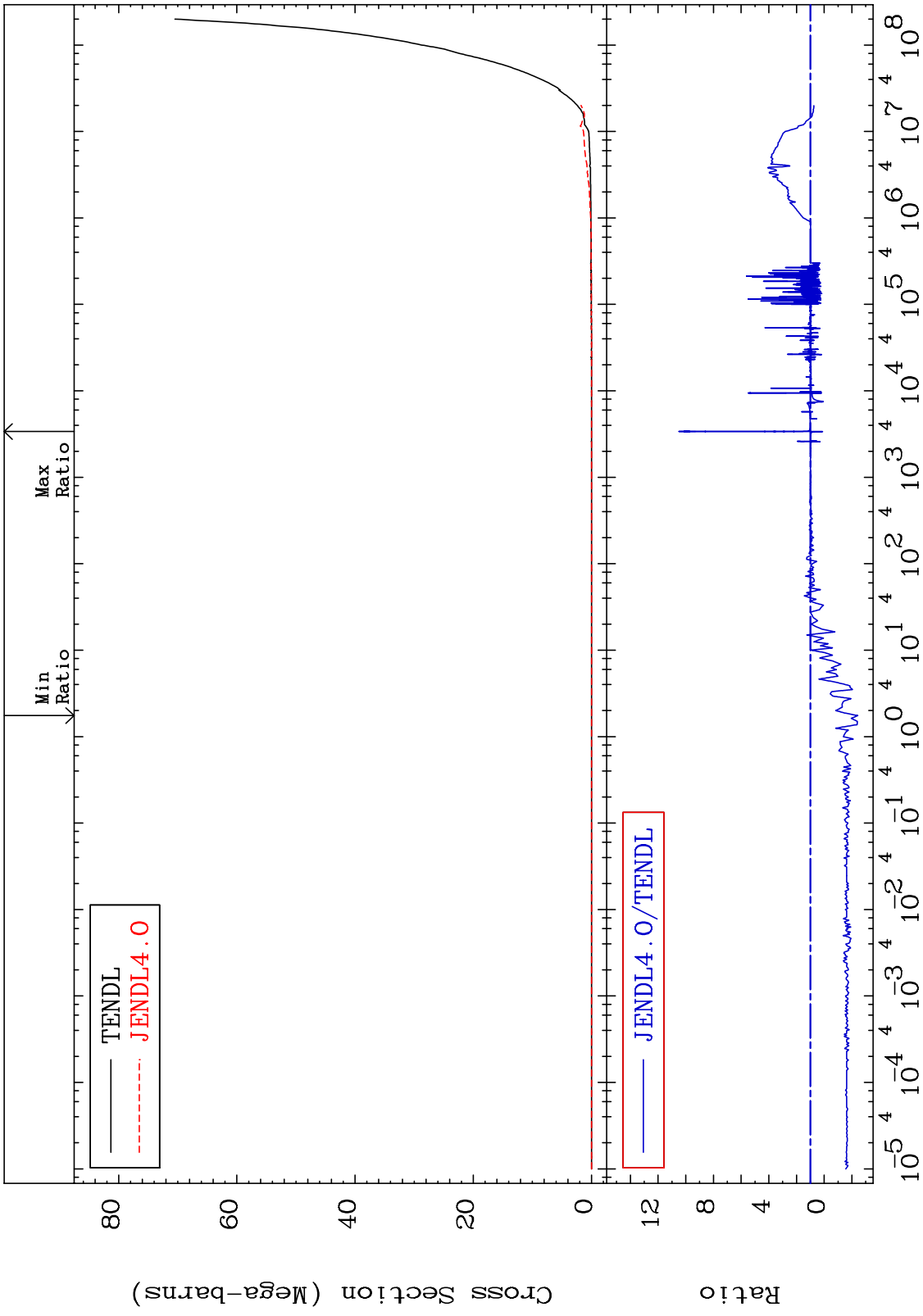


49

Incident Energy (eV)

39-Y -89

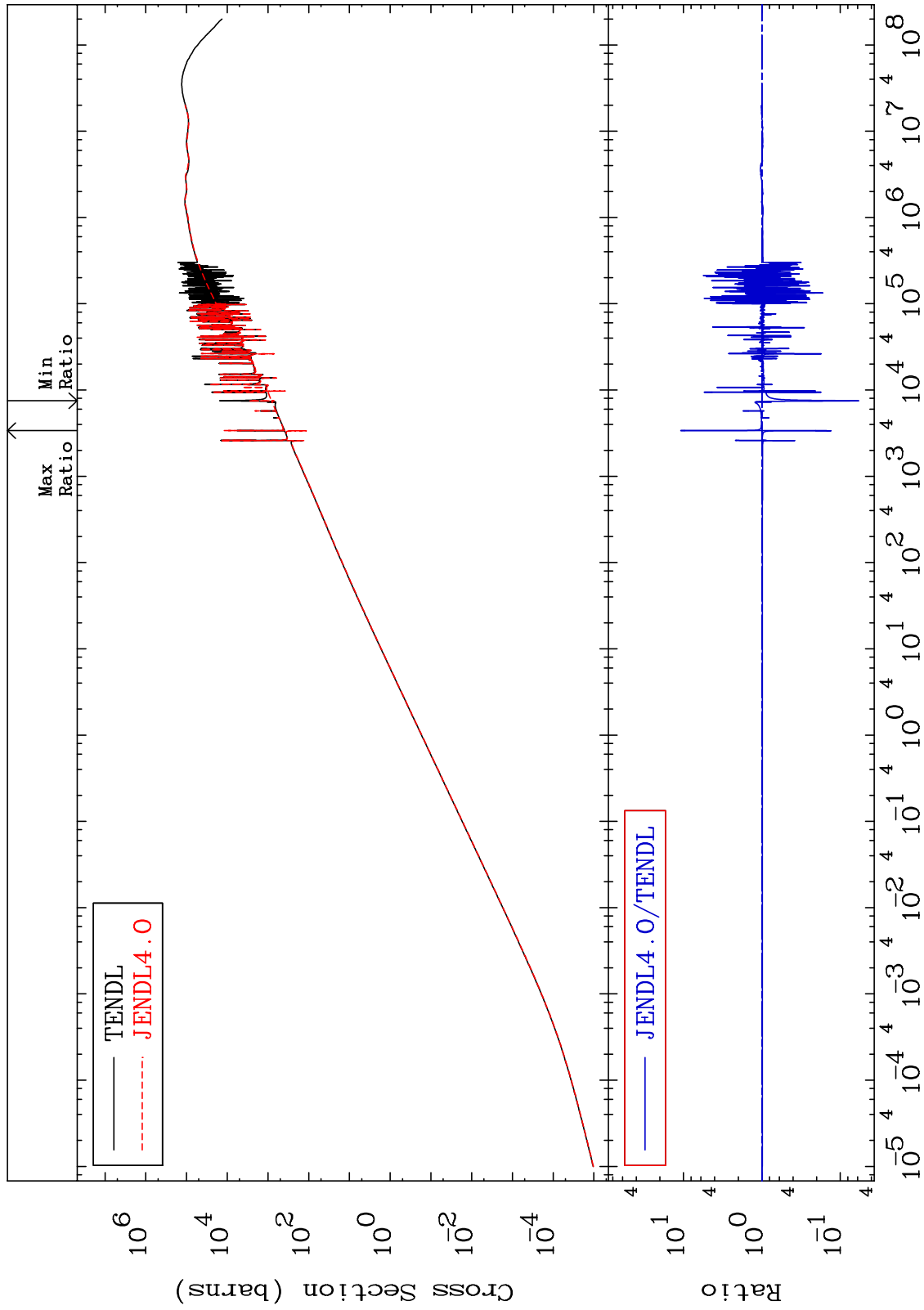
MAT 3925 Kerma total (eV-barns) 39-Y -89
Cross Section -343.0 To 948.4 %



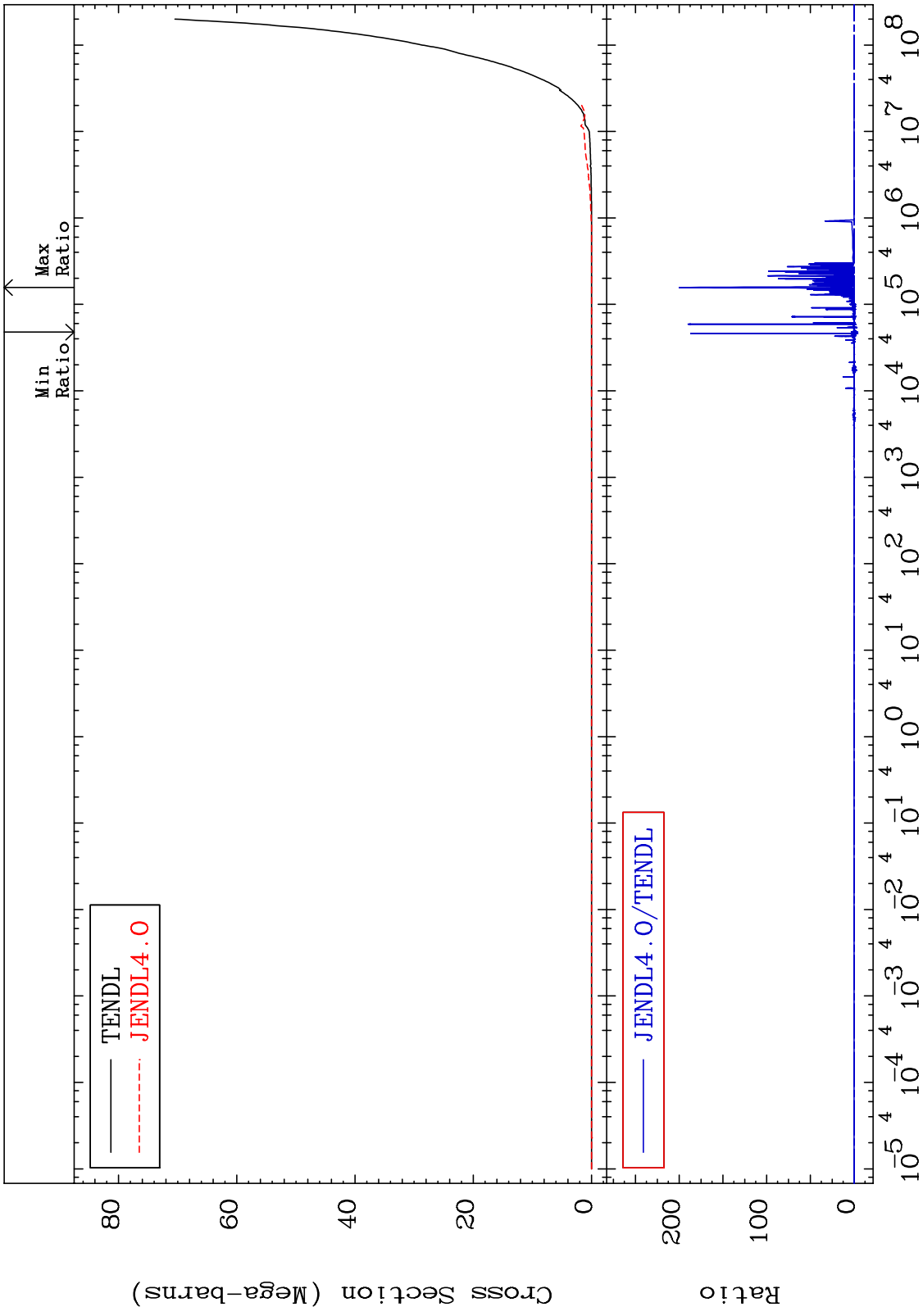
MAT 3925

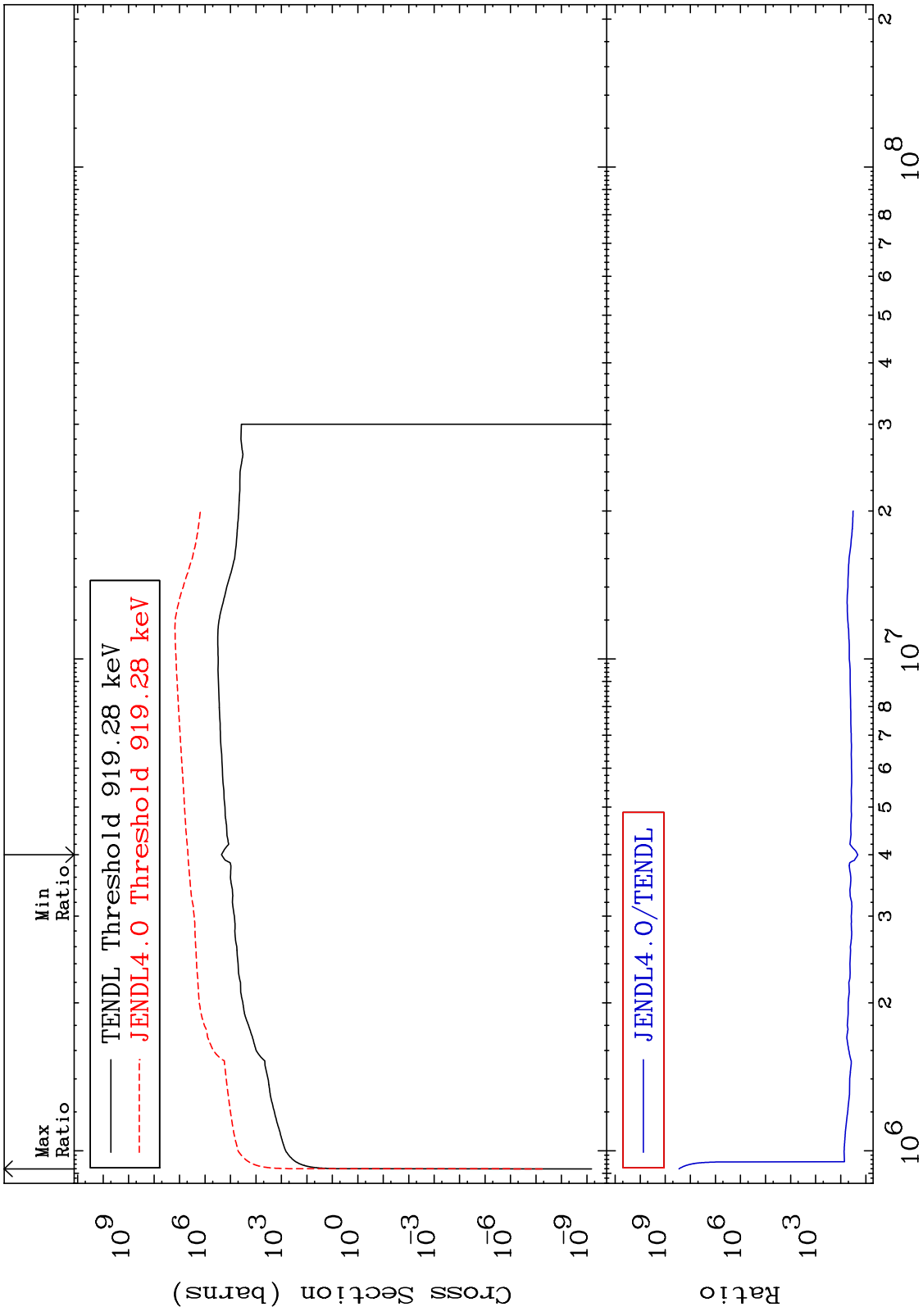
Kerma elastic
Cross Section

39-Y -89
-94.23 To 987.4 %



MAT 3925 Kerma non-elastic (all but mt2) Cross Section 39-Y -89
-9999. To 9999. %



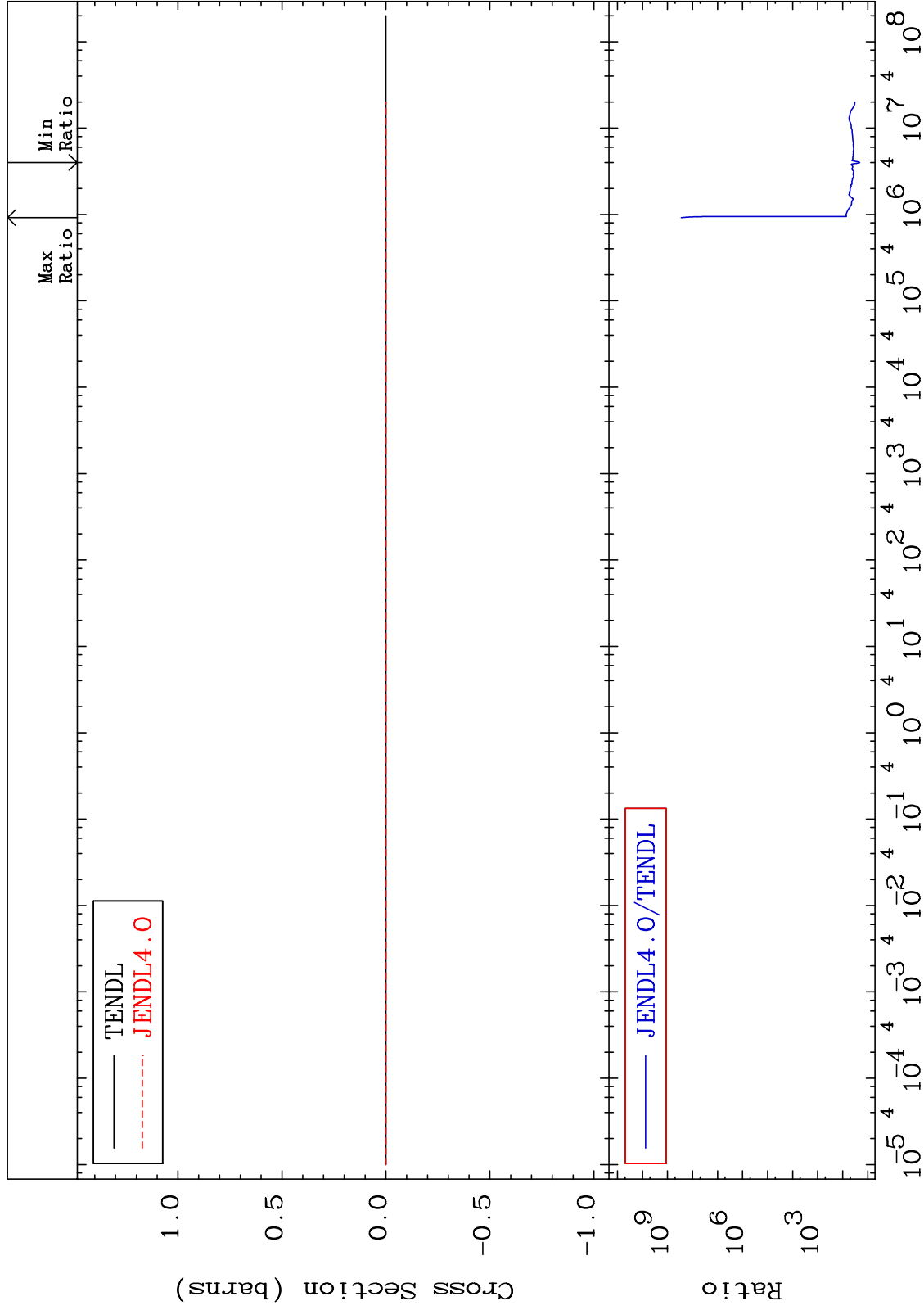


MAT 3925

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

1984. To 9999. %

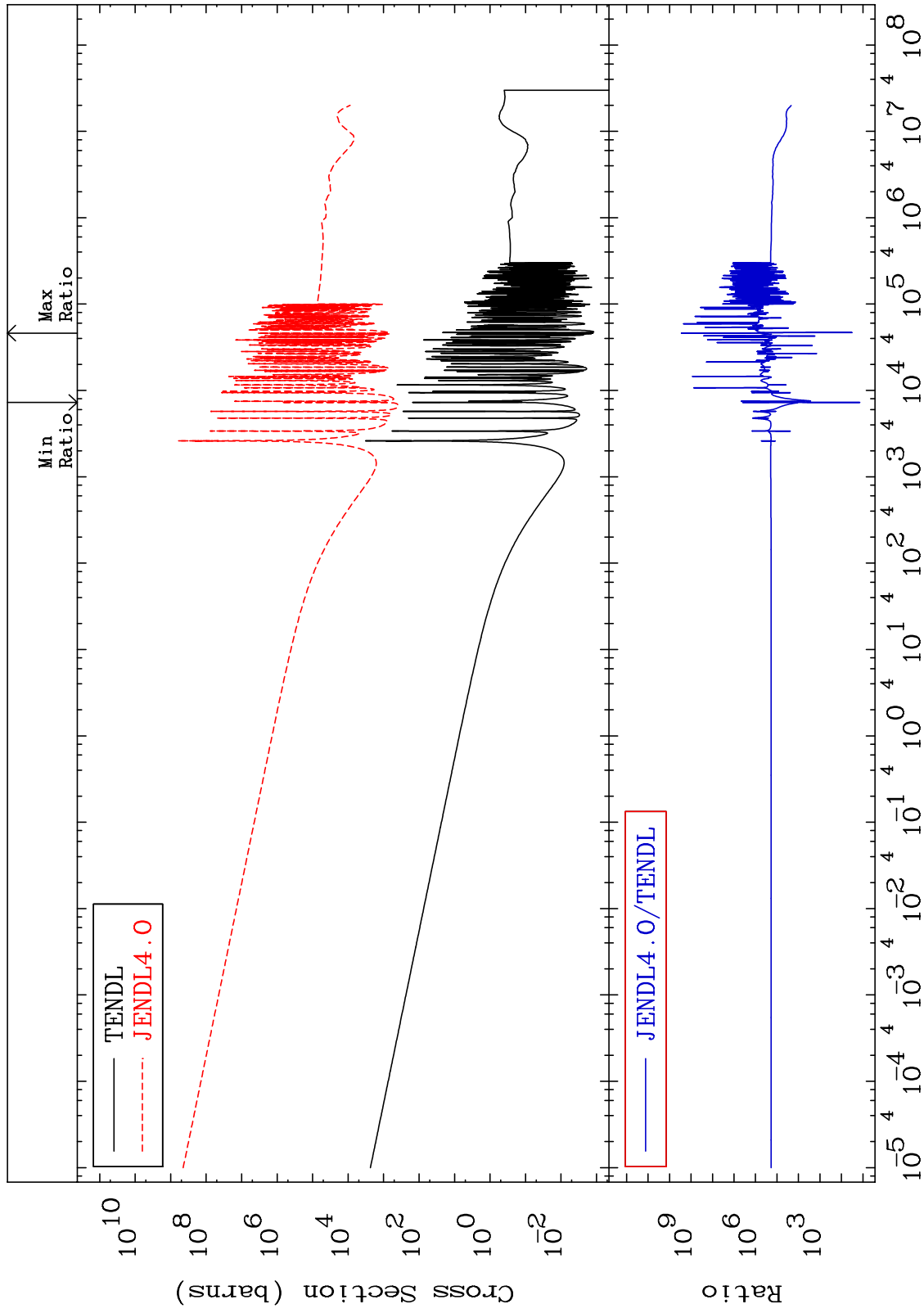
39-Y -89



MAT 3925

Kerma capture (mt102)
Cross Section

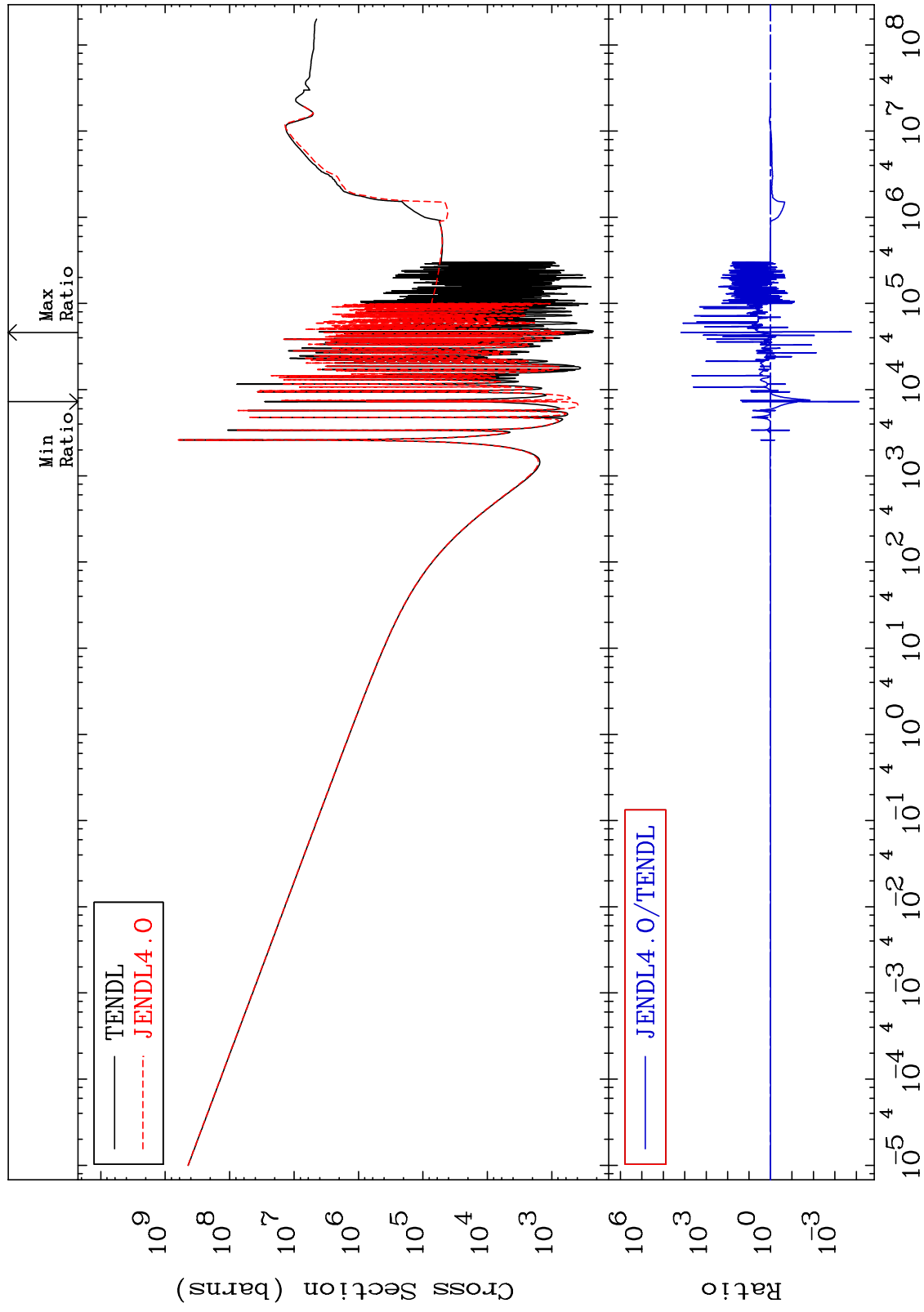
39-Y -89
1297. To 9999. %



MAT 3925

Total photon (eV-barns)
Cross Section

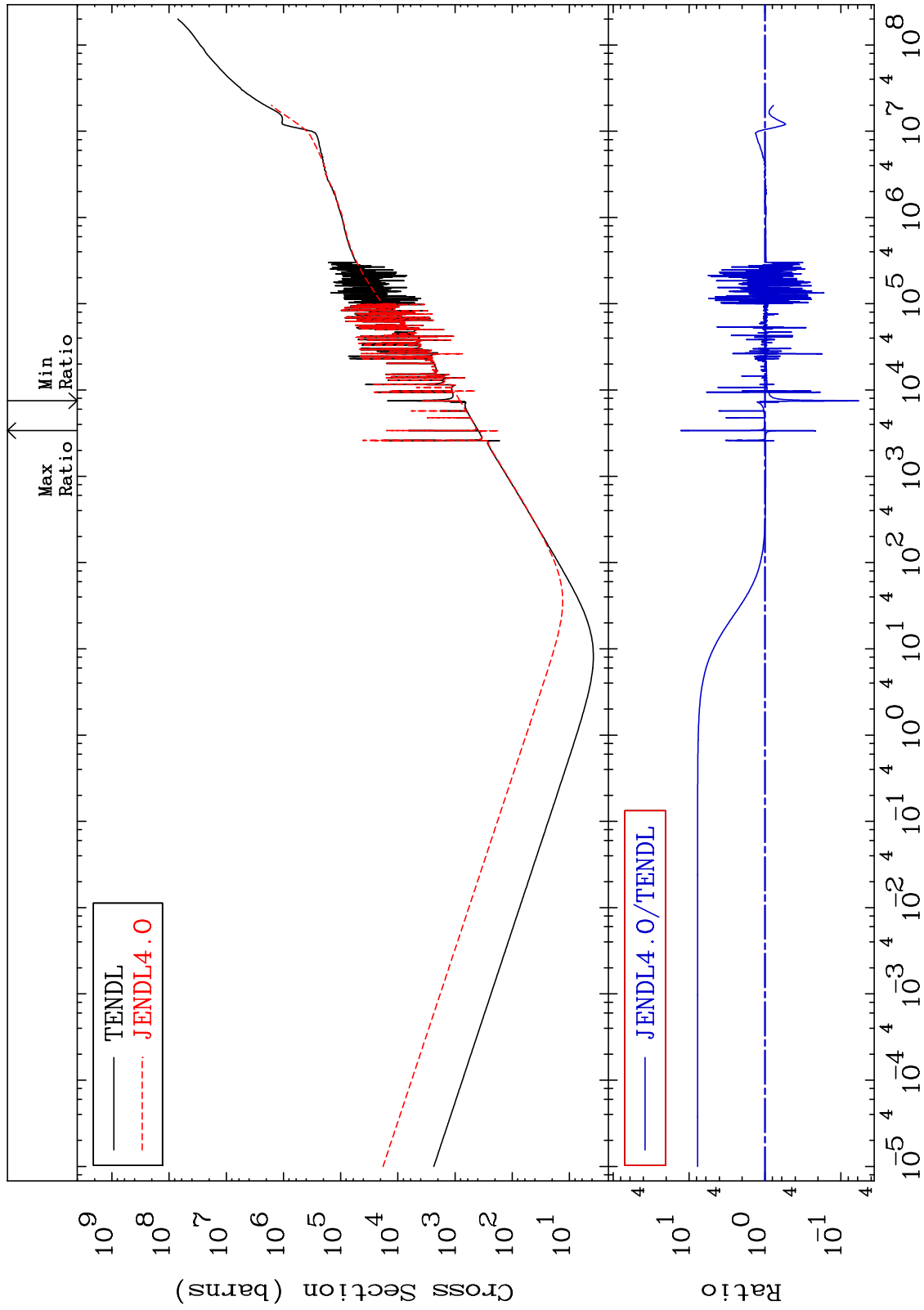
39-Y -89
-99.99 To 9999. %



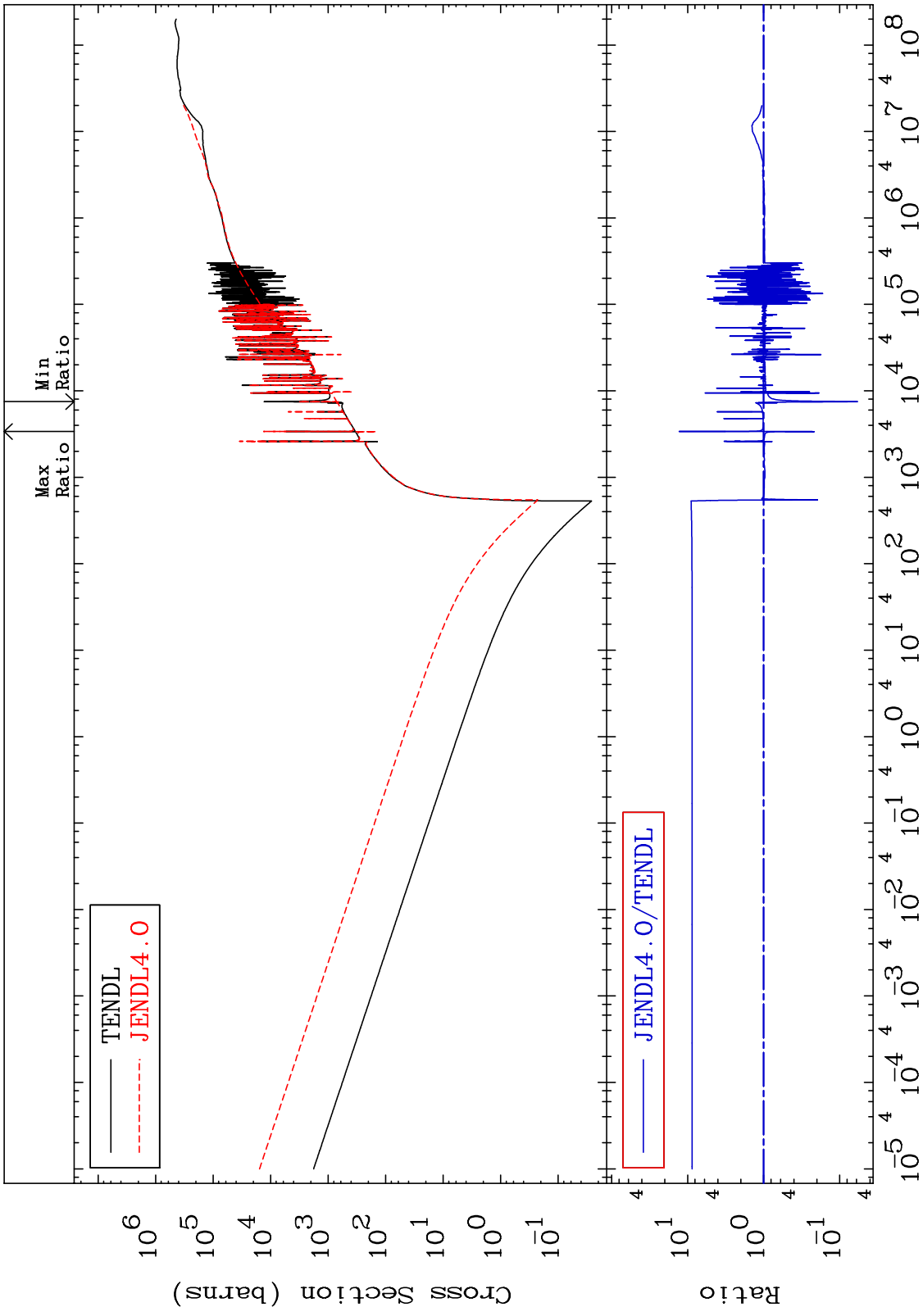
MAT 3925

Total kinematic kerma (high limit)
Cross Section

39-Y -89
-94.23 To 1192. %



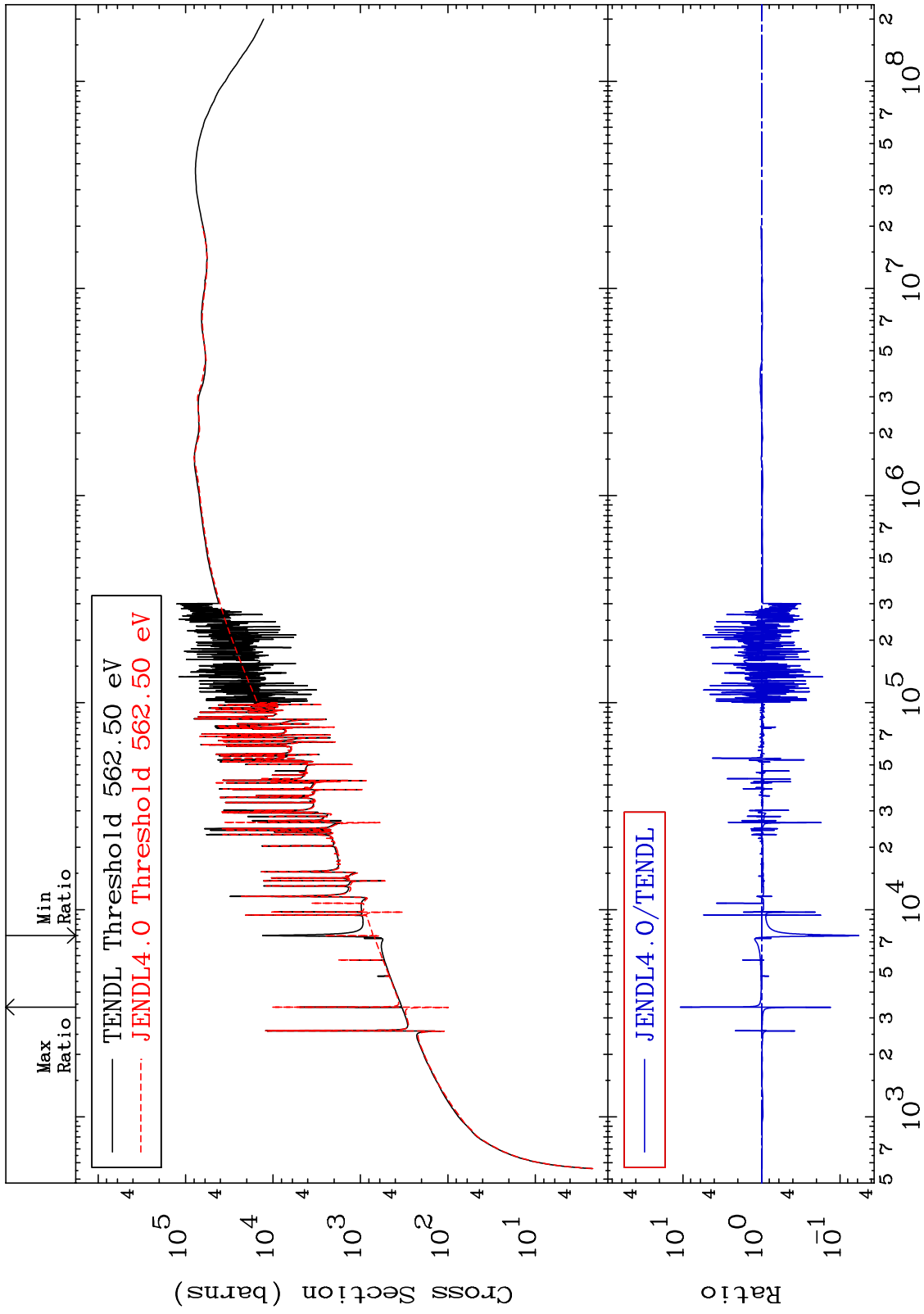
MAT 3925 Dpa total (eV-barns) 39-Y -89
 -94.23 To 1198. %



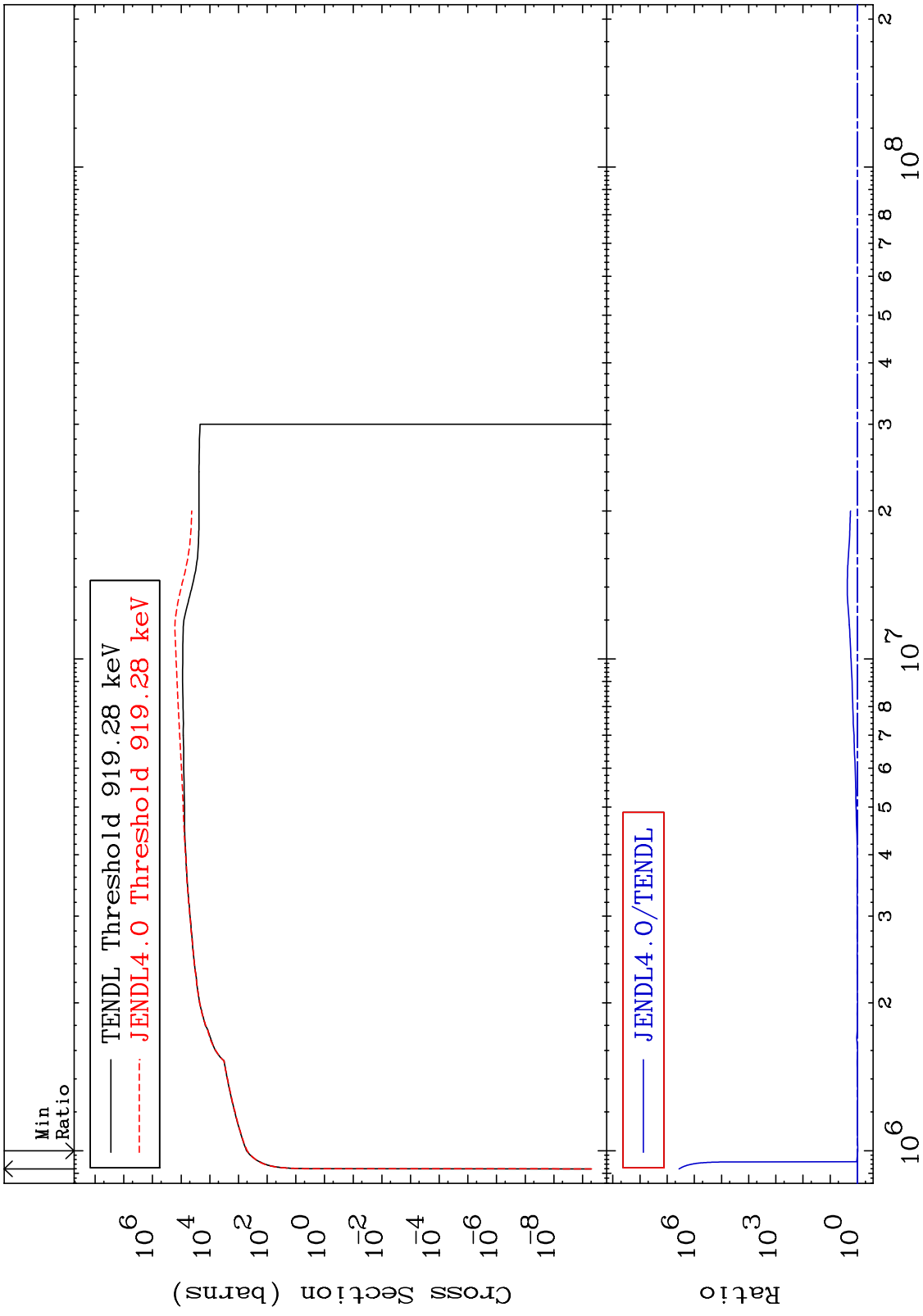
MAT 3925

Dpa elastic (mt2)
Cross Section

39-Y -89
-94.23 To 986.0 %



MAT 3925 Dpa inelastic (mt51-91) 39-Y -89
Cross Section -3.997 To 9999. %



60 Incident Energy (eV) 39-Y -89

MAT 3925

Dpa disappearance (mt102 -120)
Cross Section

39-Y -89
-99.92 To 9999. %

