

Program Complot
(Version 2018-1)

by

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(Present Contact Information)

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U.S.A.

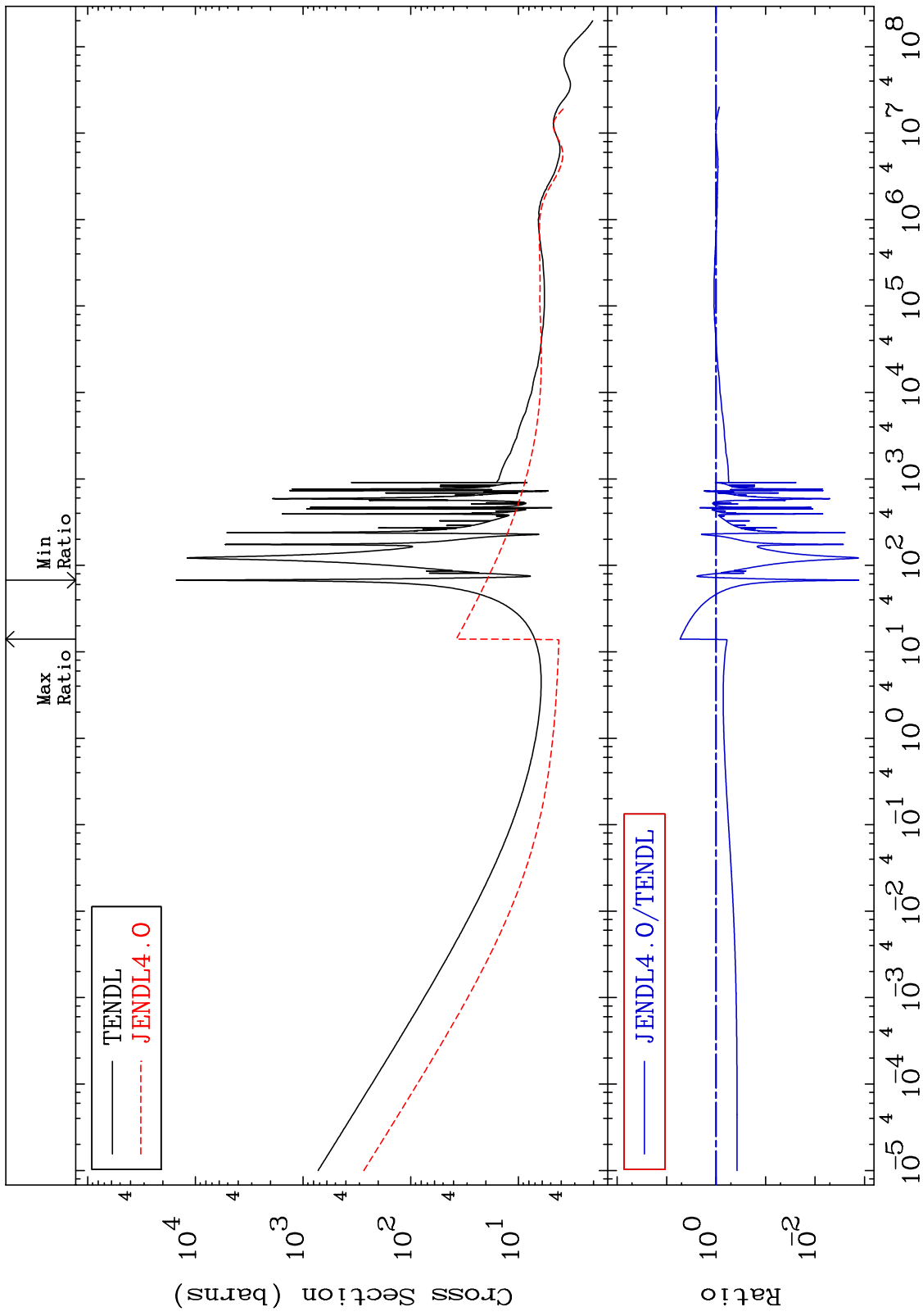
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 5137

Total Cross Section
51-Sb-125
-99.87 To 434.6 %



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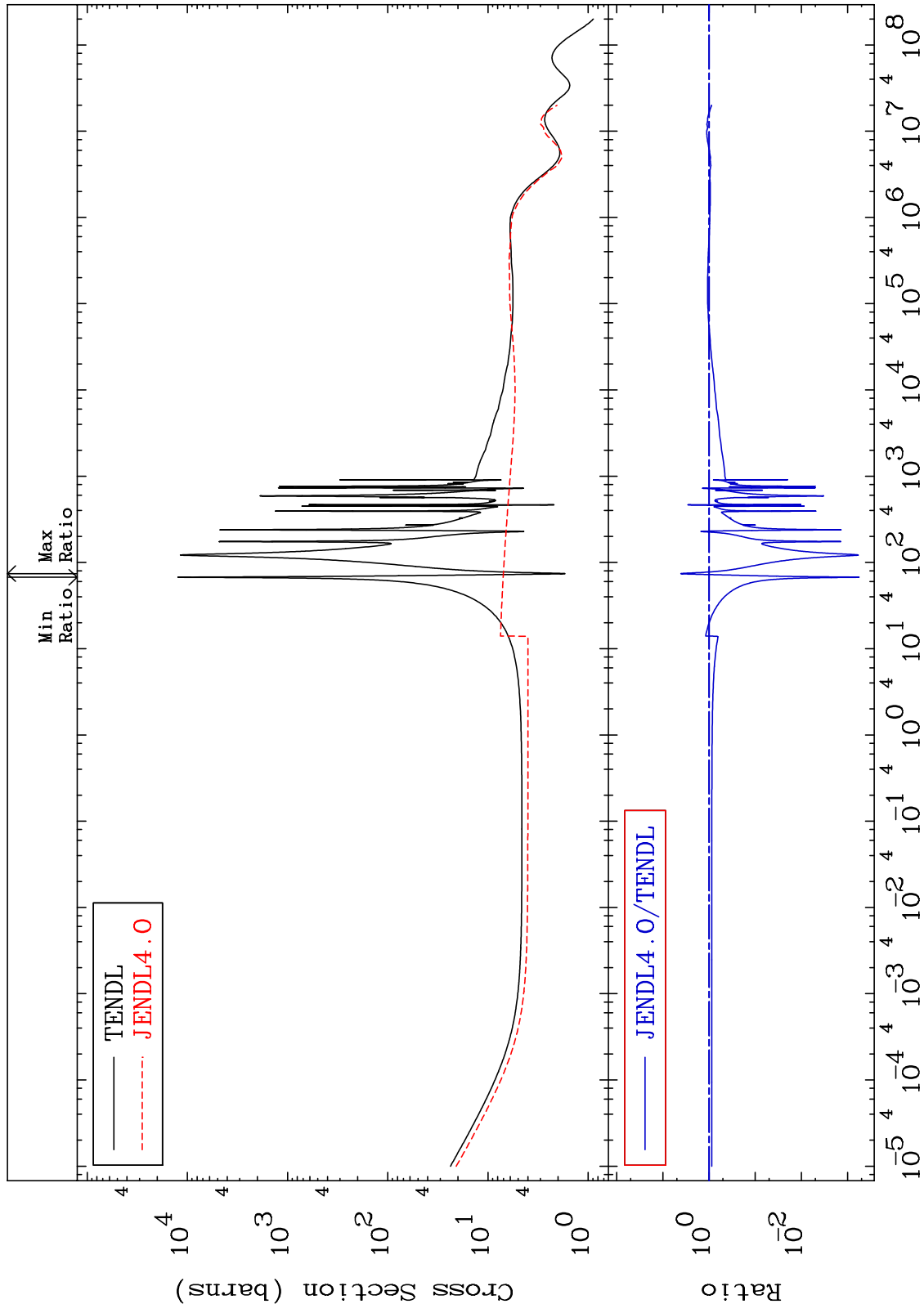
Incident Energy (eV)

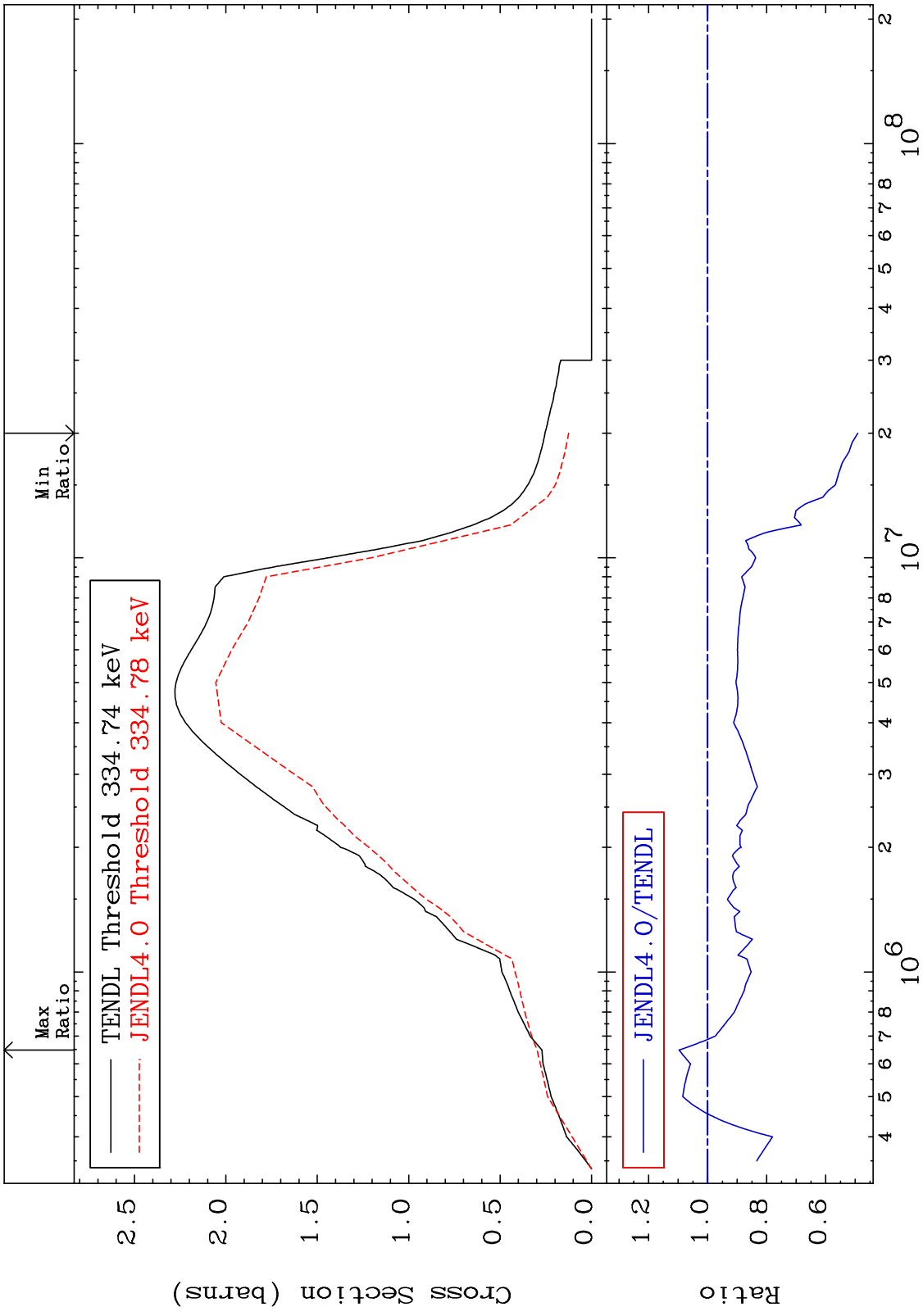
51-Sb-125

MAT 5137

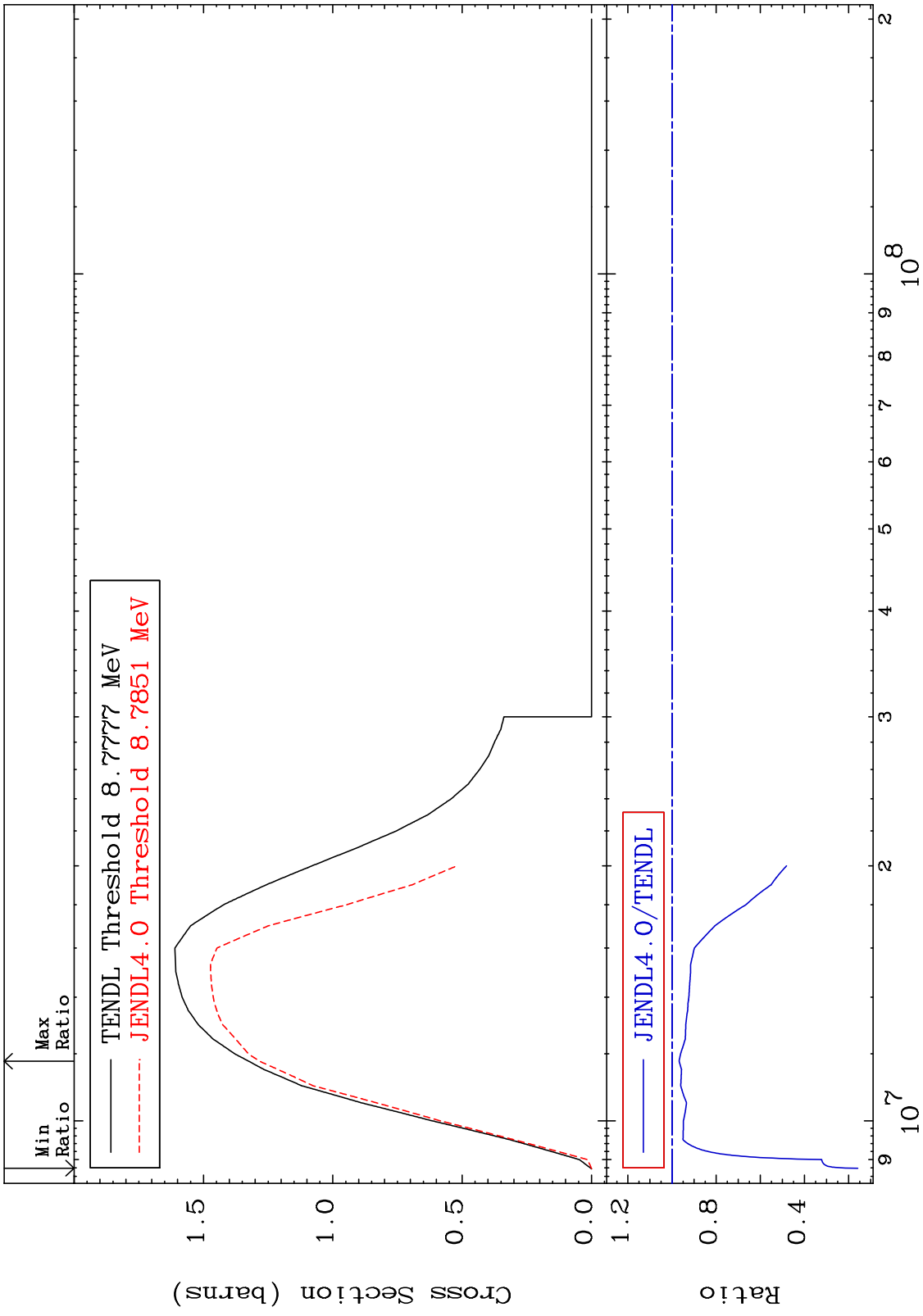
Elastic
Cross Section

51-Sb-125
-99.94 To 312.7 %

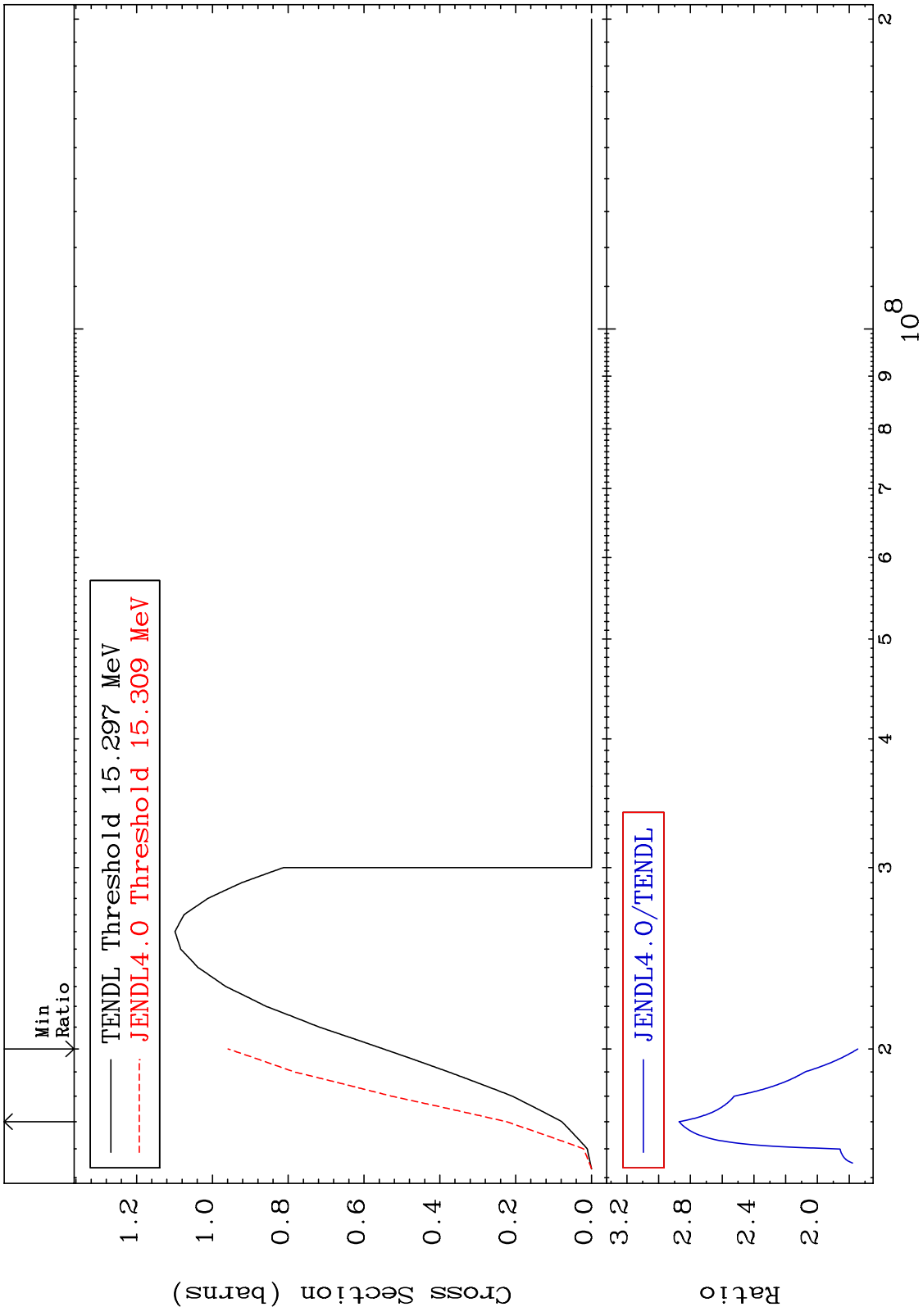




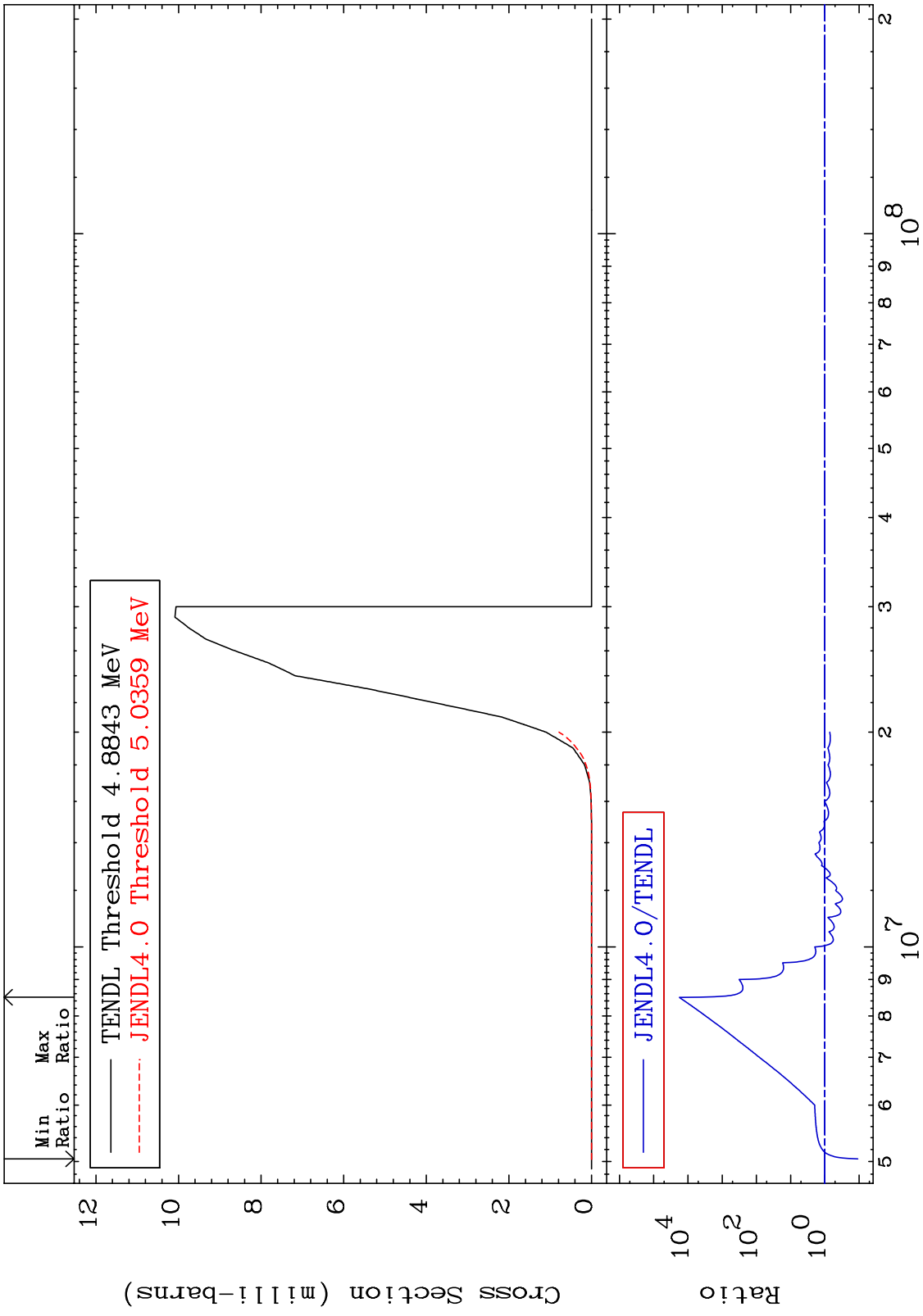
MAT 5137 (n,2n) Cross Section 51-Sb-125 -84.13 To -3.151%



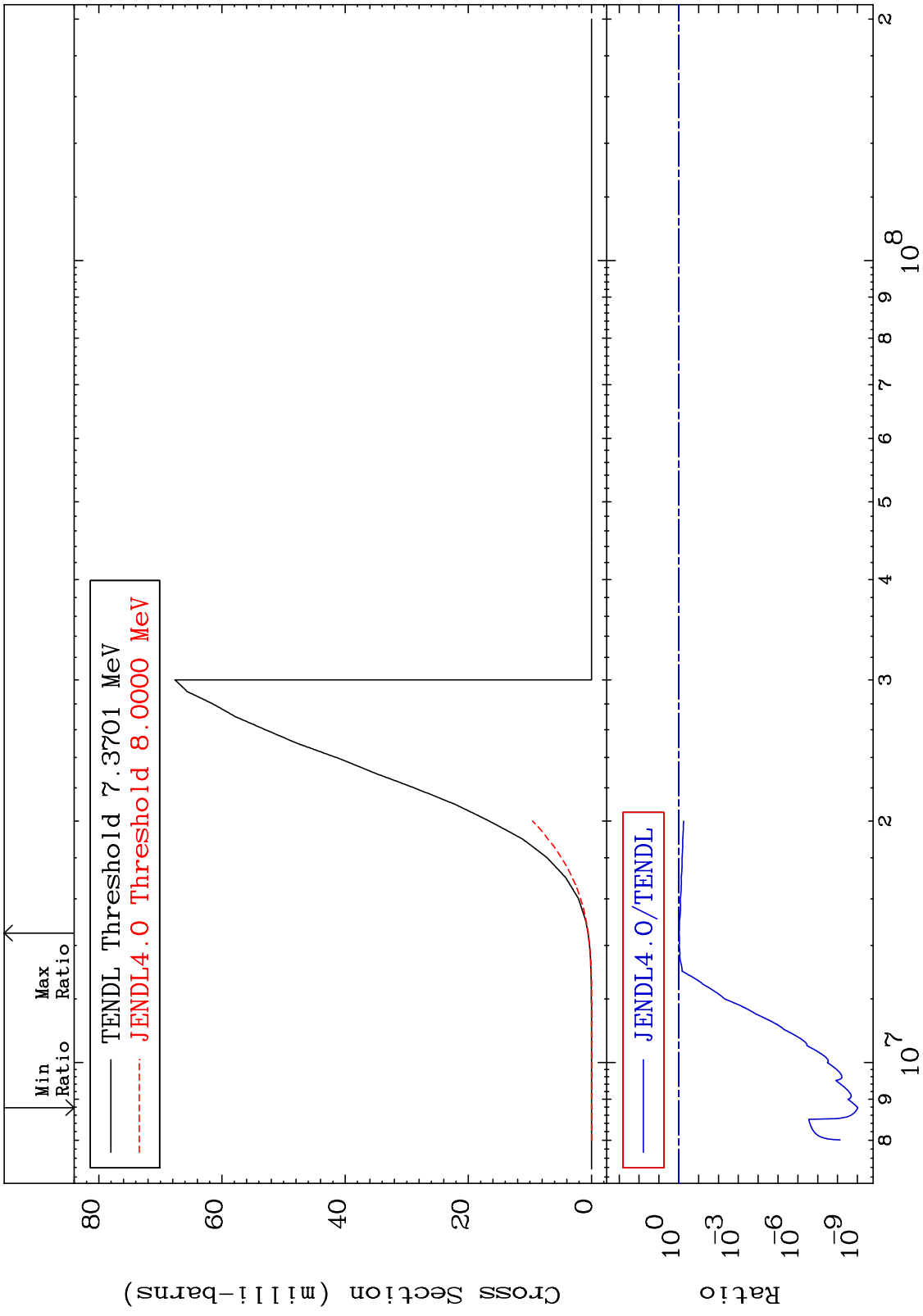
4 51-Sb-125

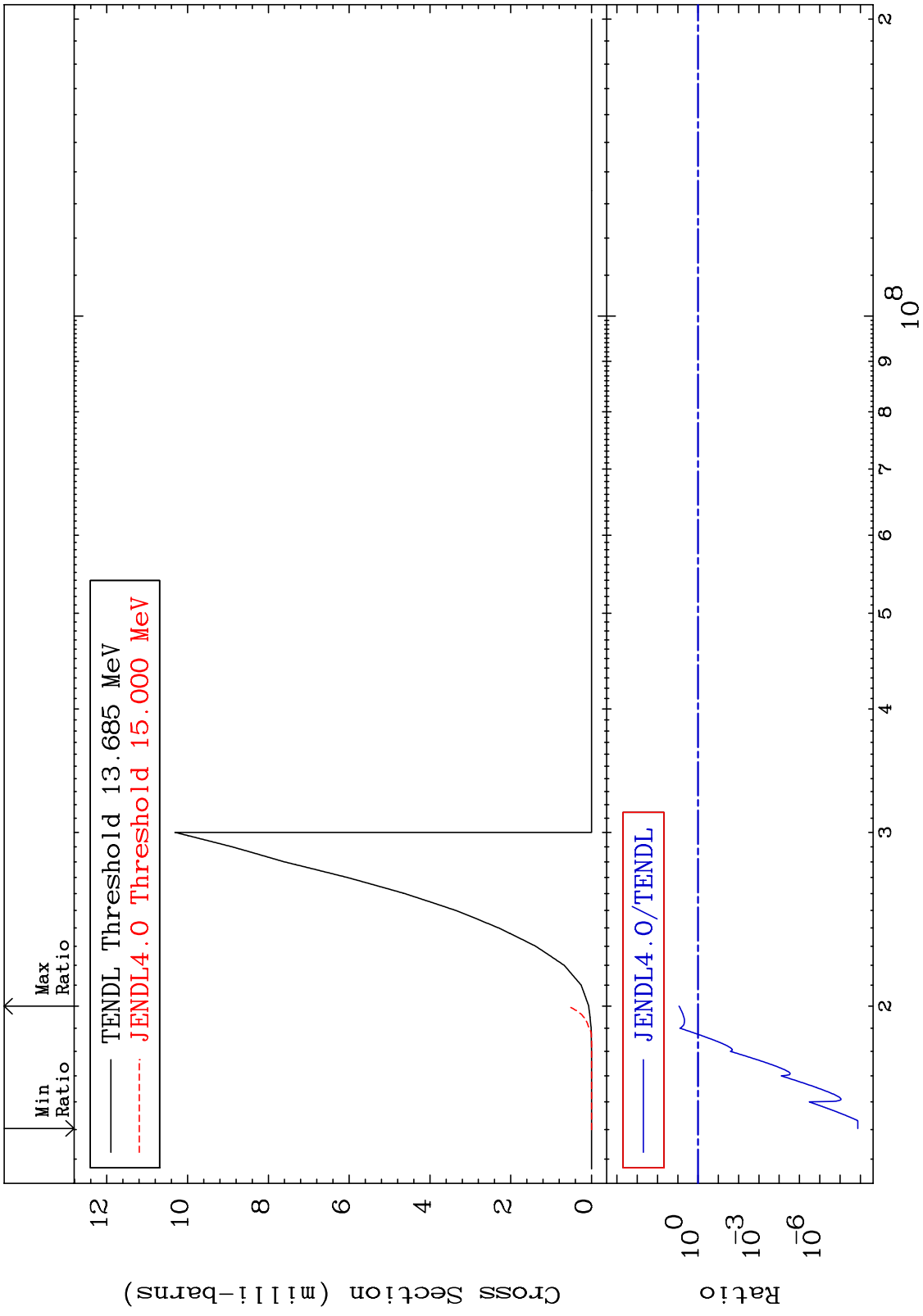


MAT 5137 $(n, n') \alpha$ 51-Sb-125
 Cross Section -89.16 To 9999. %

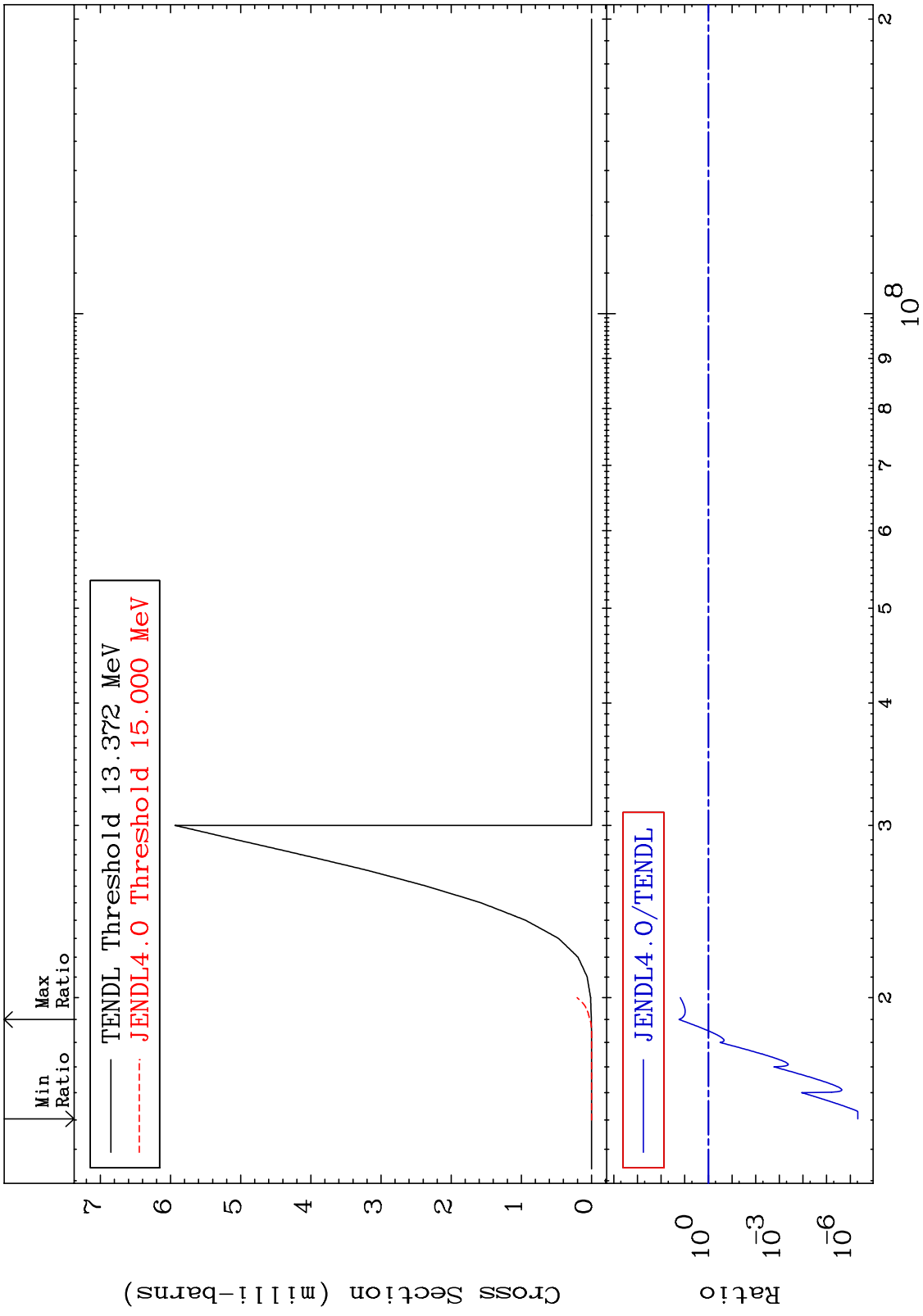


MAT 5137 (n, n') p 51-Sb-125 -100.0 To -3.208%
 Cross Section





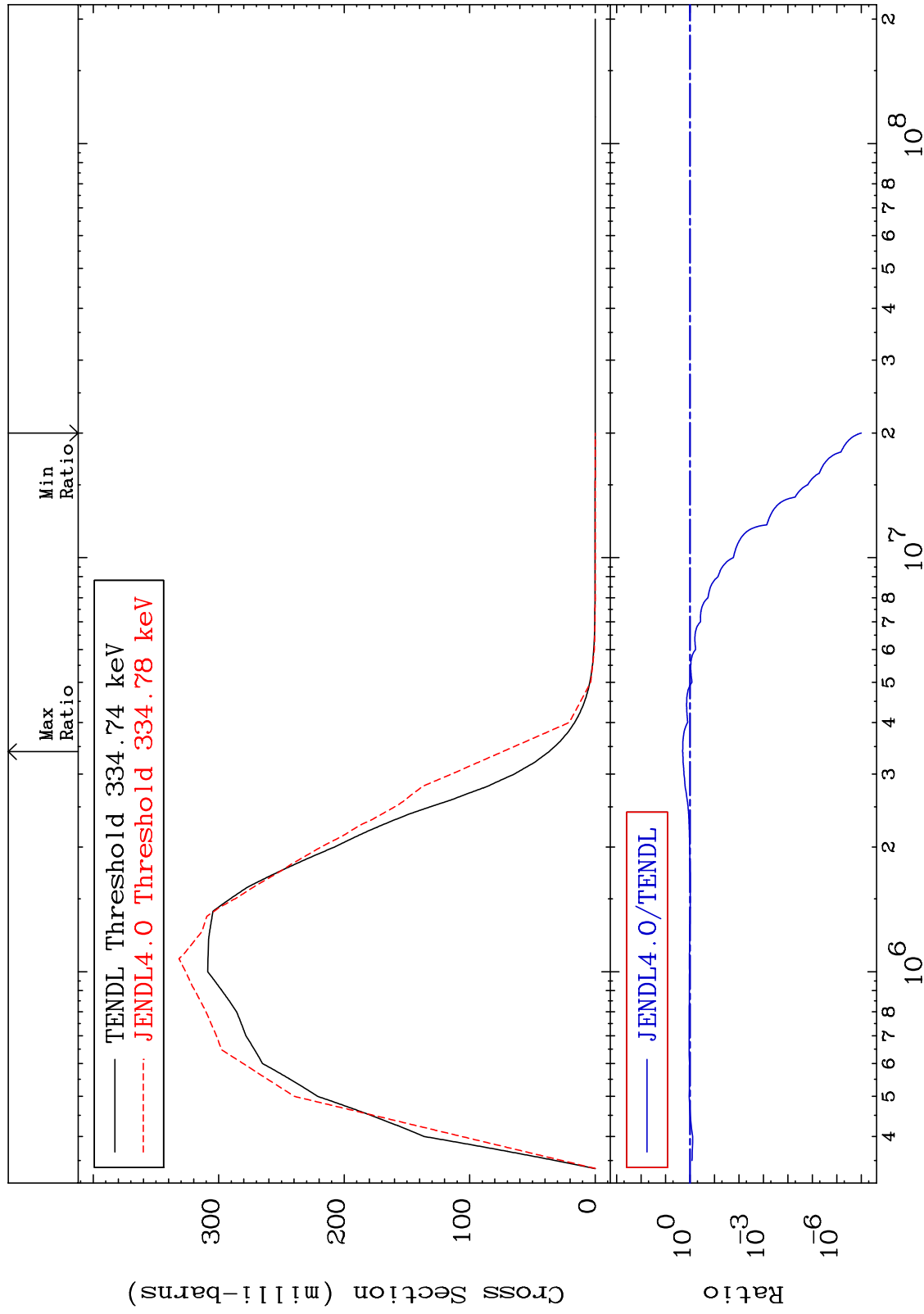
MAT 5137 (n,n') t 51-Sb-125
 Cross Section -100.0 To 1643. %



MAT 5137

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

51-Sb-125
-100.0 To 101.3 %

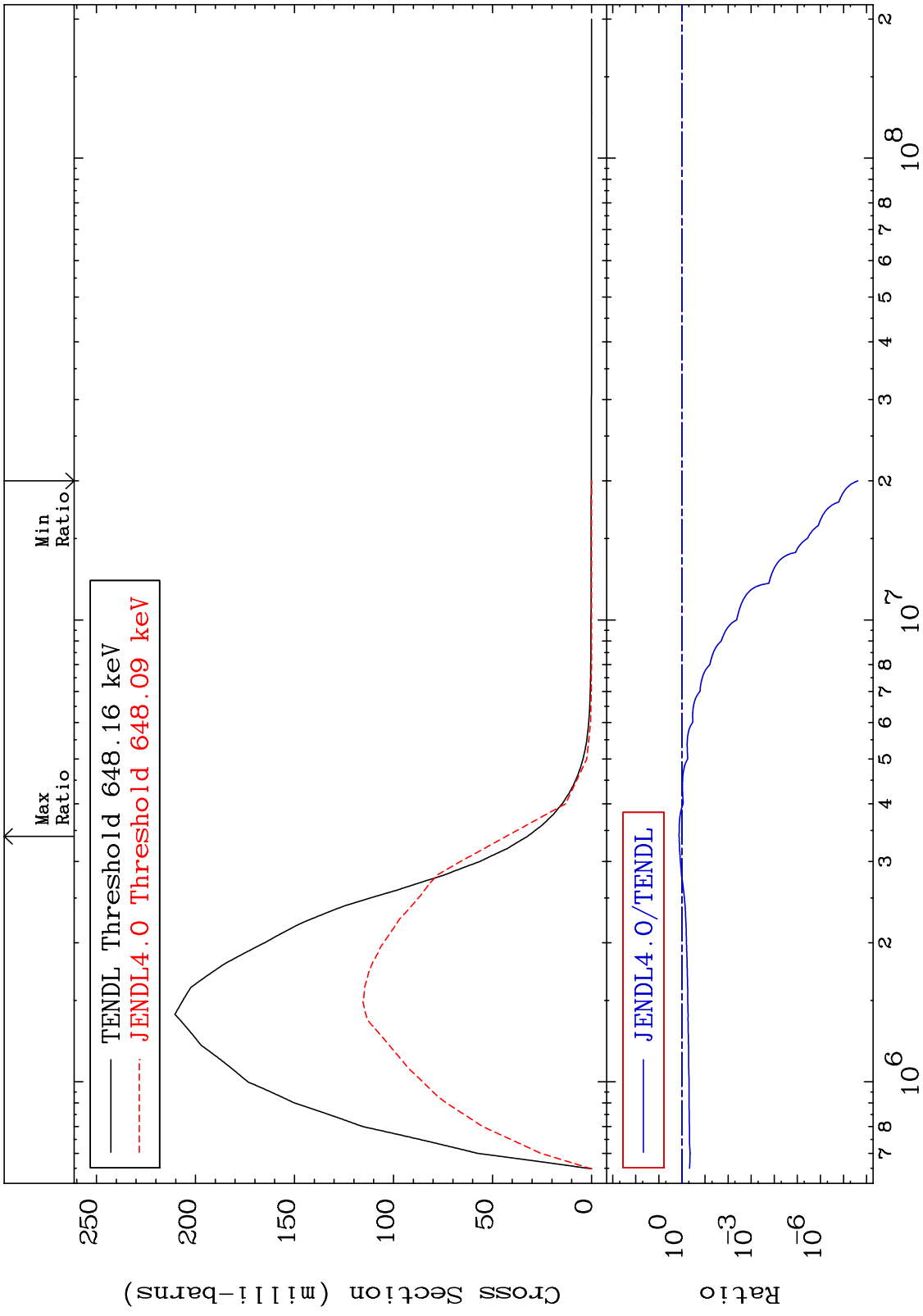


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Incident Energy (eV)

51-Sb-125

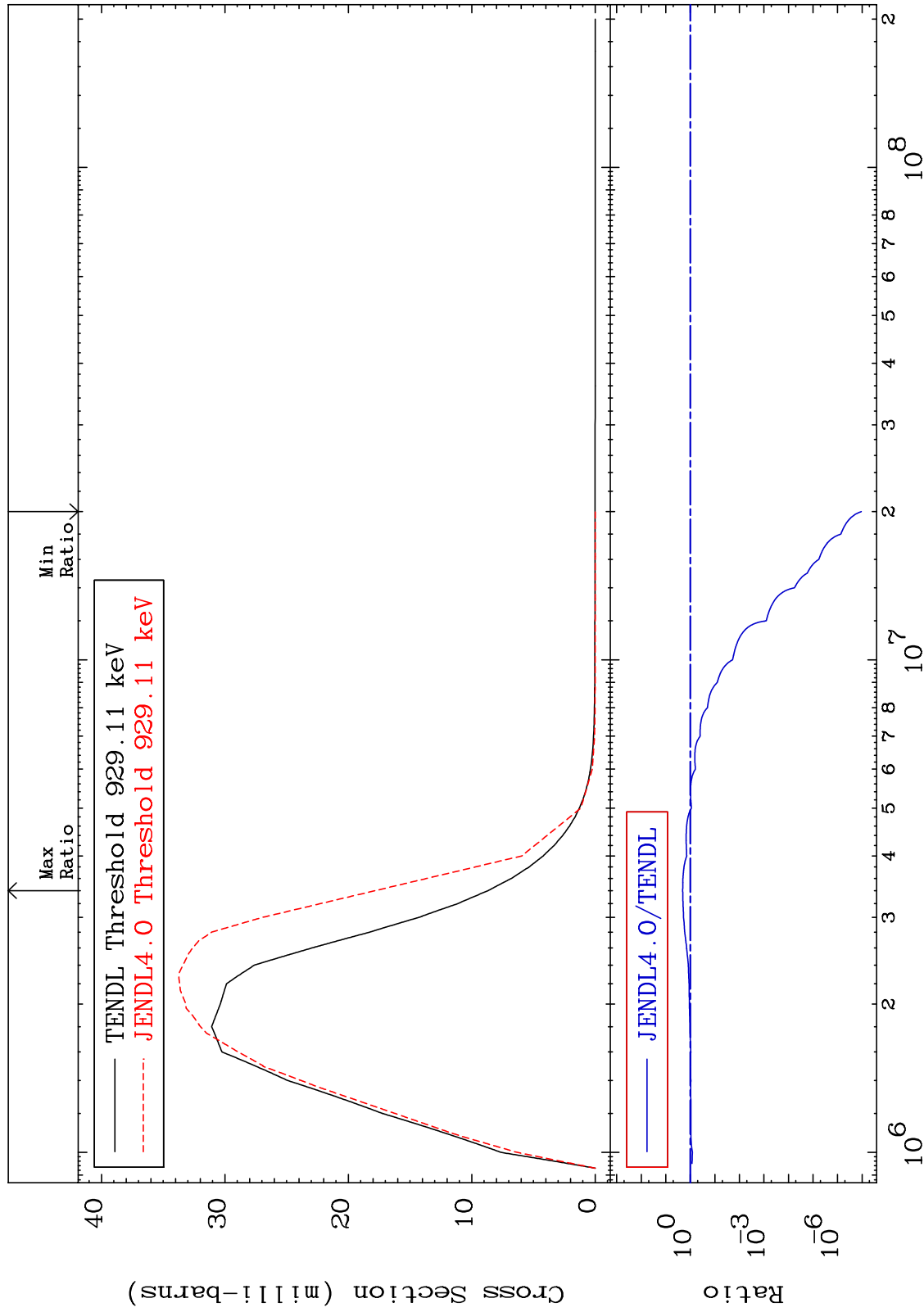
MAT 5137 MT= 52 (n,n') Level Cross Section 51-Sb-125 -100.0 To 33.26 %



MAT 5137

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

51-Sb-125
-100.0 To 105.4 %

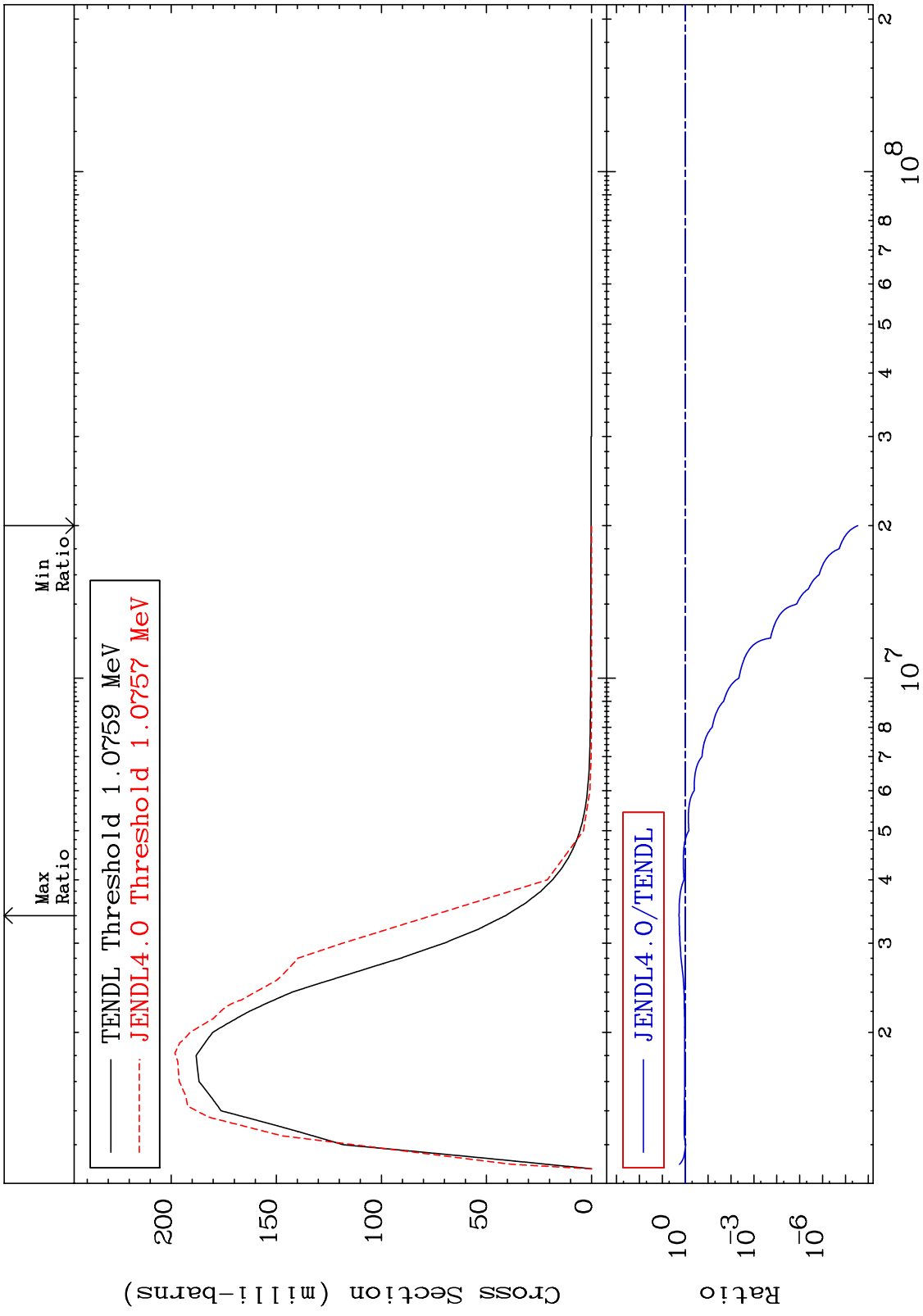


12

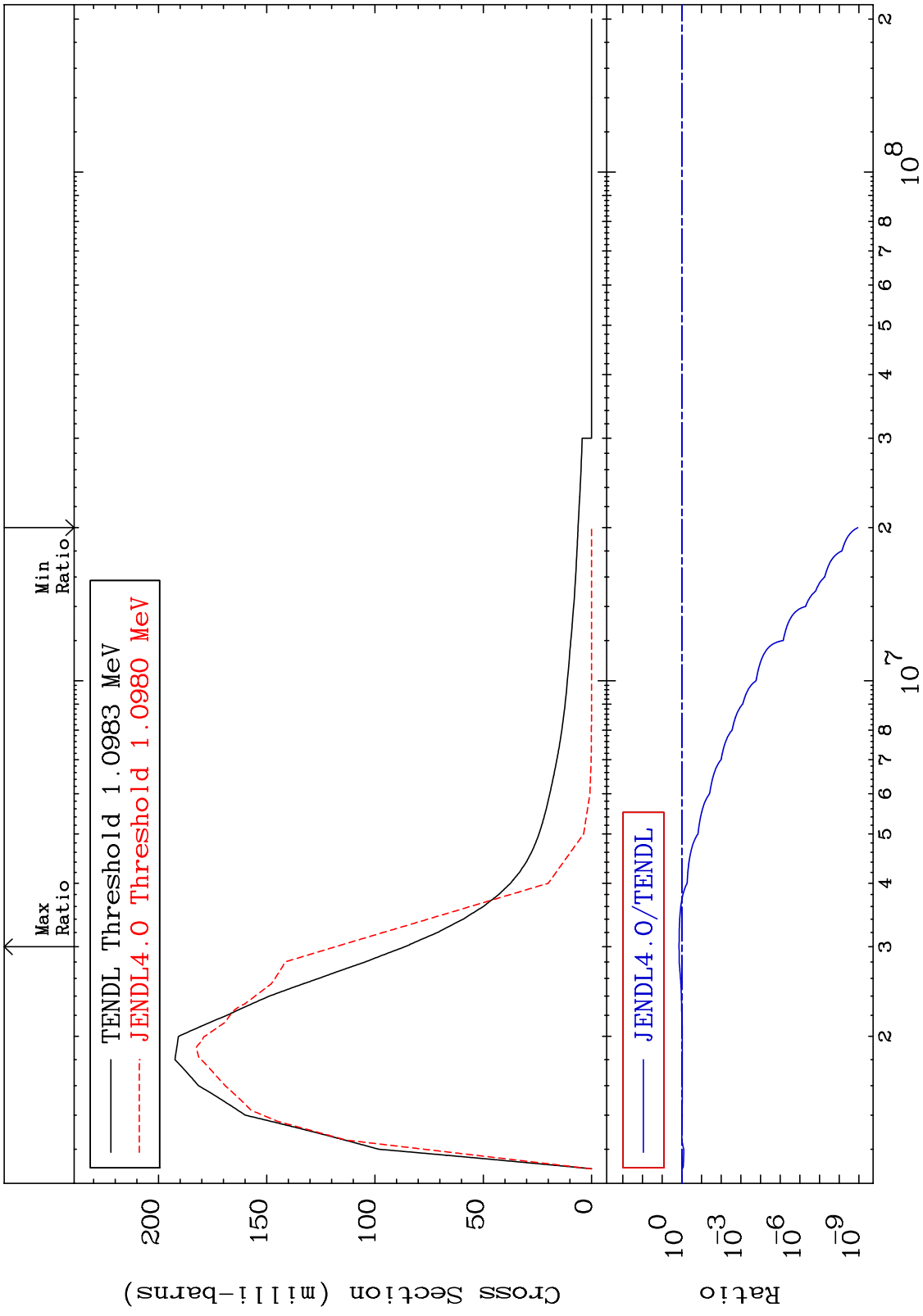
Incident Energy (eV)

51-Sb-125

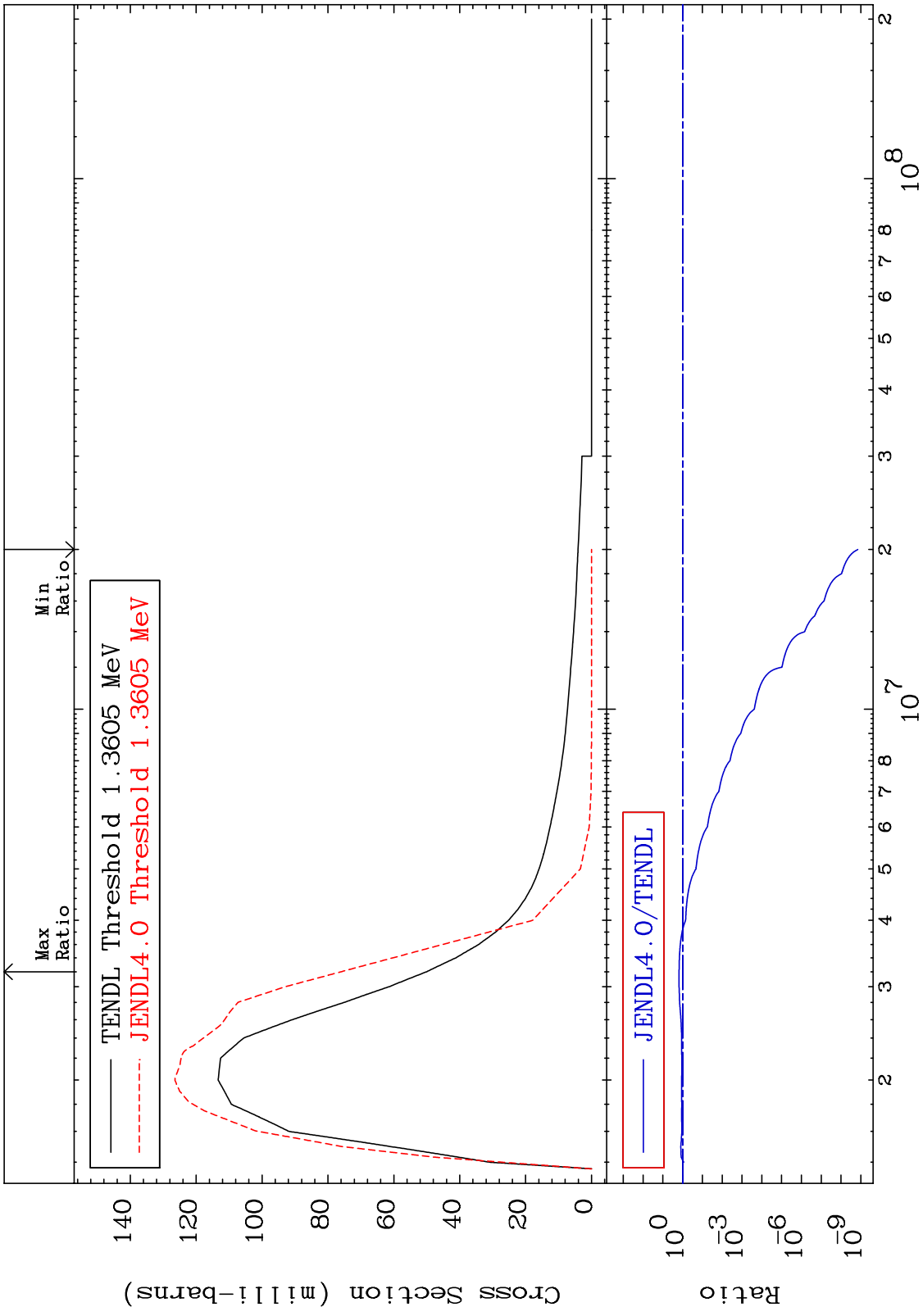
MAT 5137 MT= 54 (n,n') Level Cross Section 51-Sb-125 -100.0 To 85.91 %



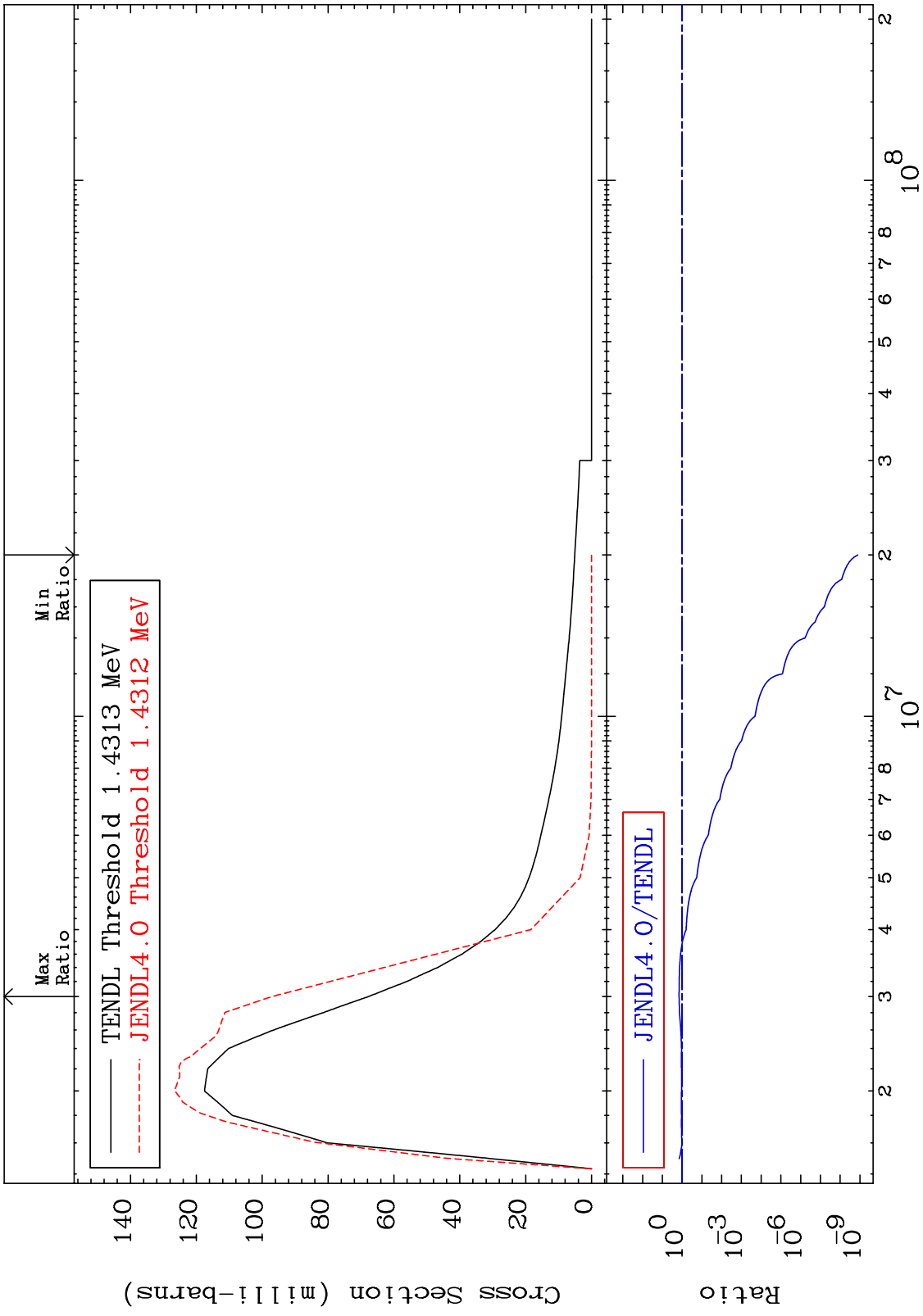
MAT 5137 MT= 55 (n,n') Level Cross Section 51-Sb-125 -100.0 To 37.29 %



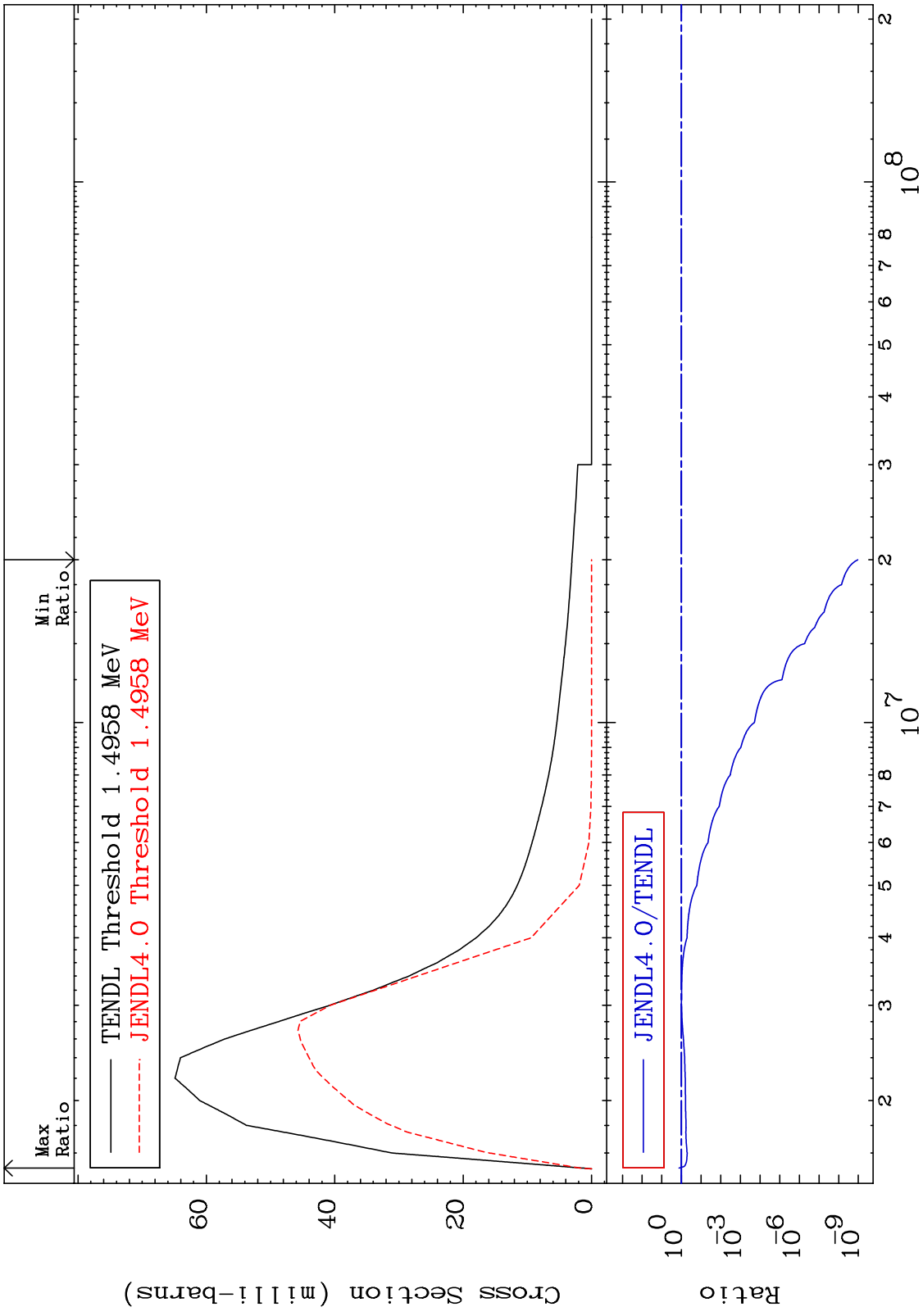
MAT 5137 MT= 56 (n,n') Level Cross Section 51-Sb-125 -100.0 To 51.93 %



MAT 5137 MT= 57 (n,n') Level Cross Section 51-Sb-125 -100.0 To 43.38 %



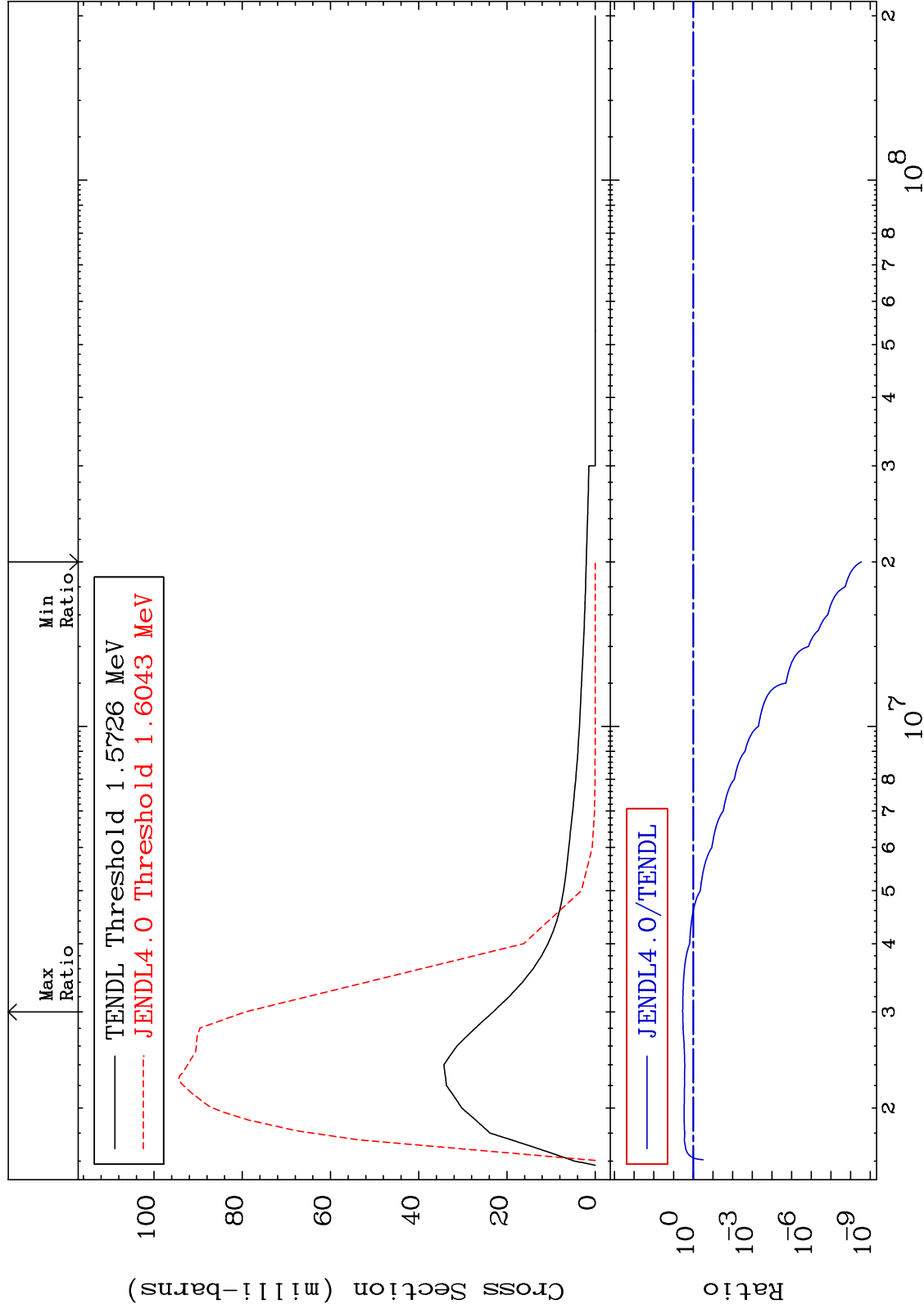
MAT 5137 MT= 58 (n,n') Level Cross Section 51-Sb-125 -100.0 To 32.51 %



MAT 5137

MT= 59 (n,n') Level
Cross Section

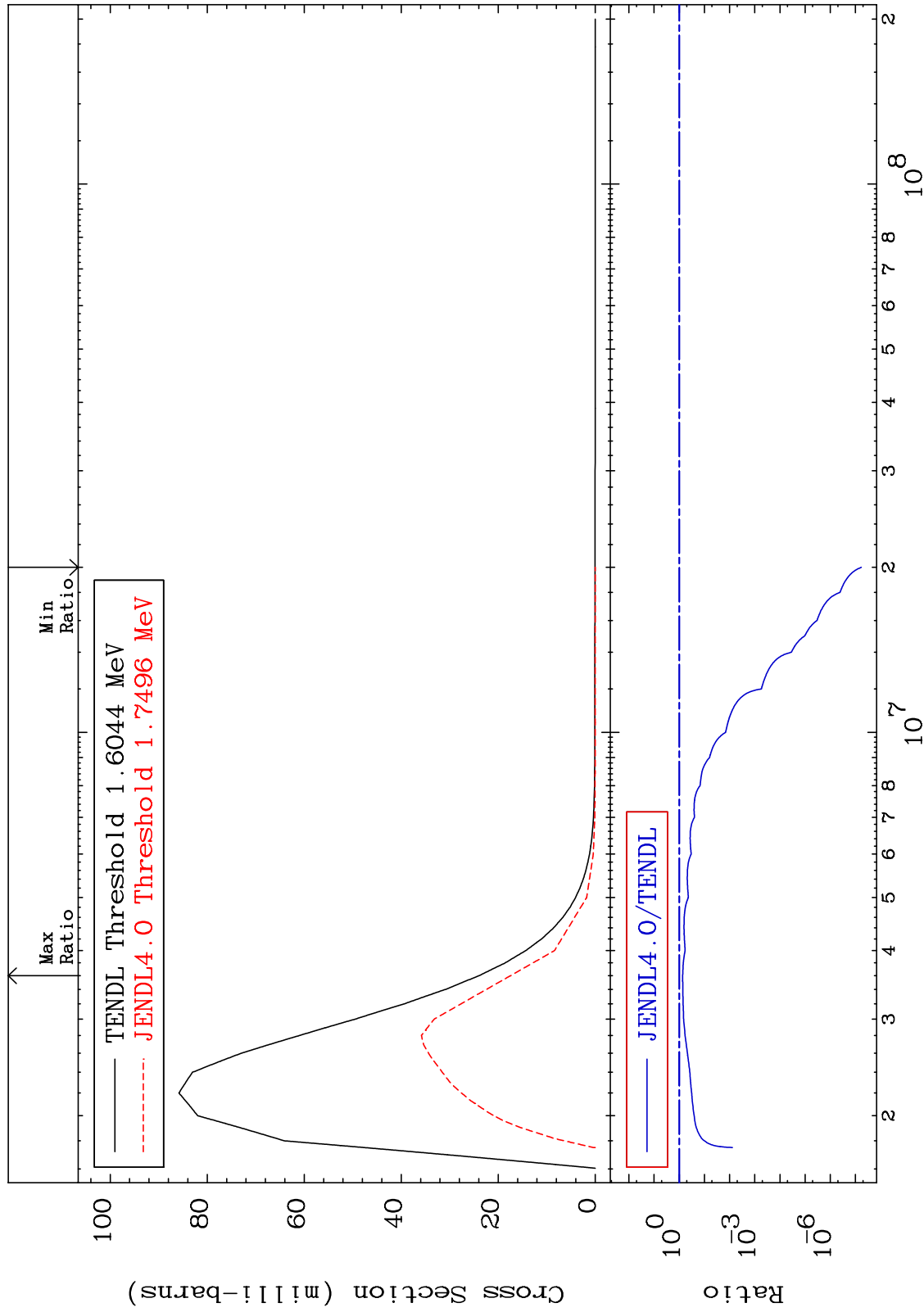
51-Sb-125
-100.0 To 243.2 %



MAT 5137

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

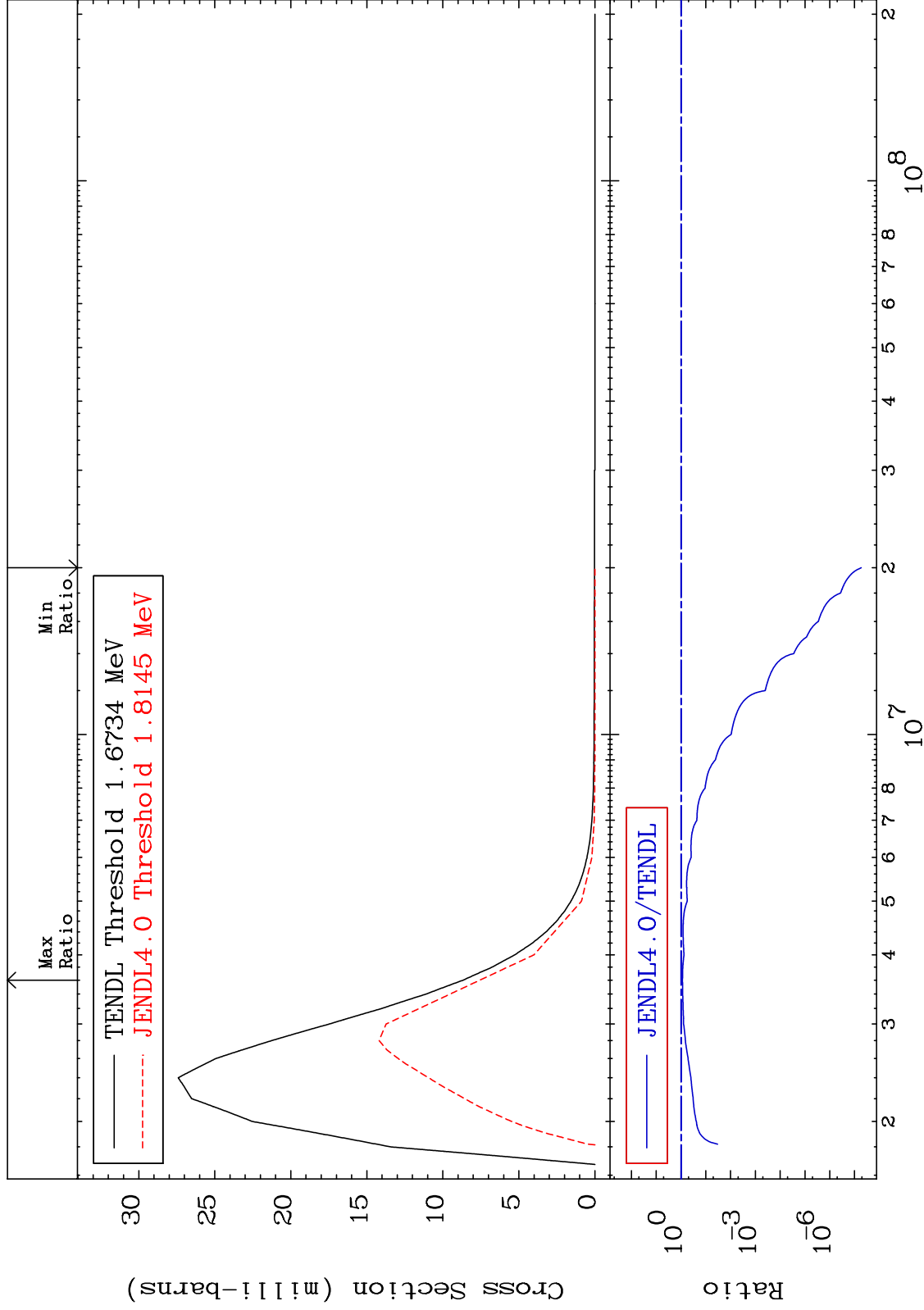
51-Sb-125
-100.0 To -27.00%



MAT 5137

MT= 61 (n,n') Level
Cross Section

51-Sb-125
-100.0 To -12.70%



20

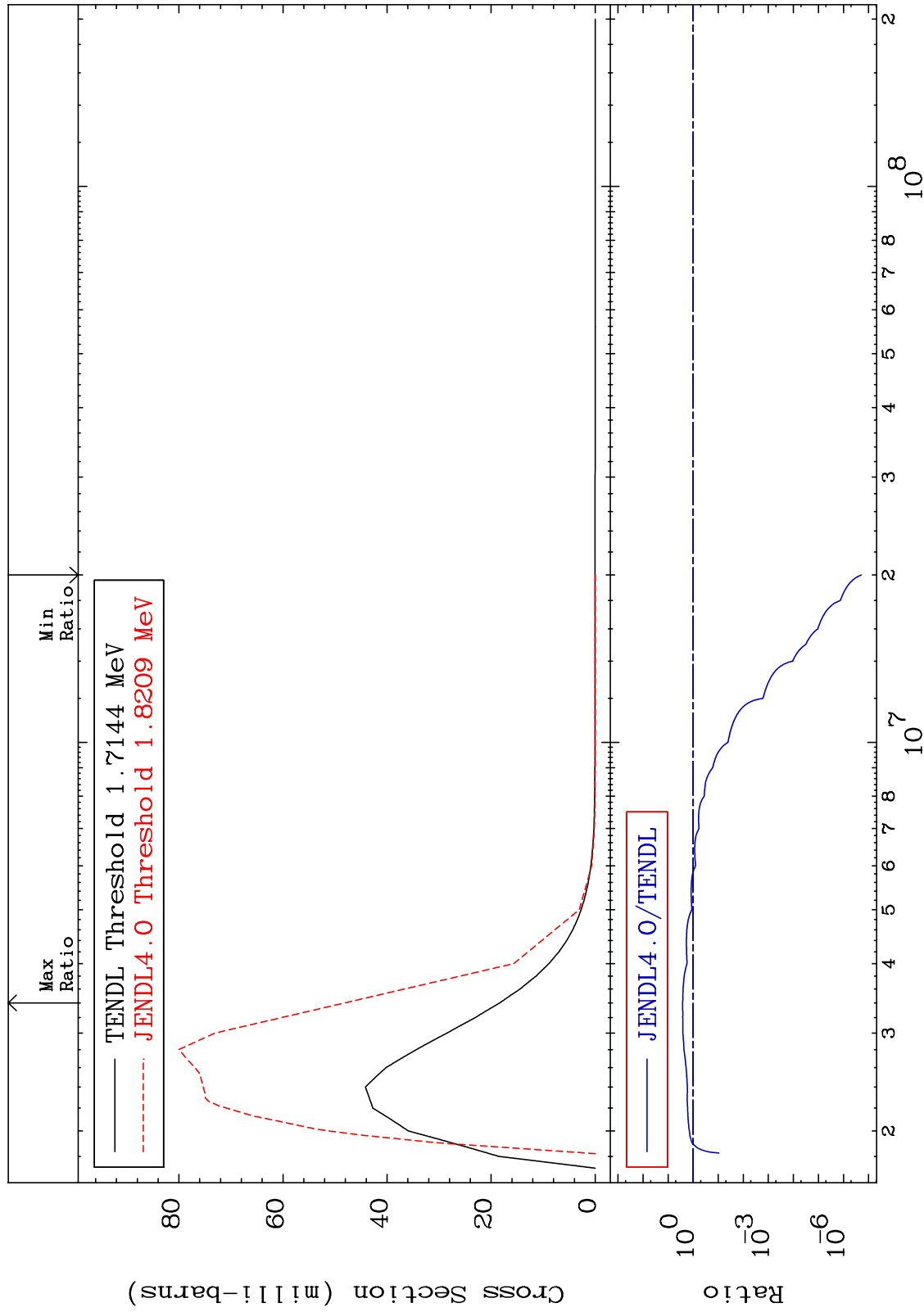
Incident Energy (eV)

51-Sb-125

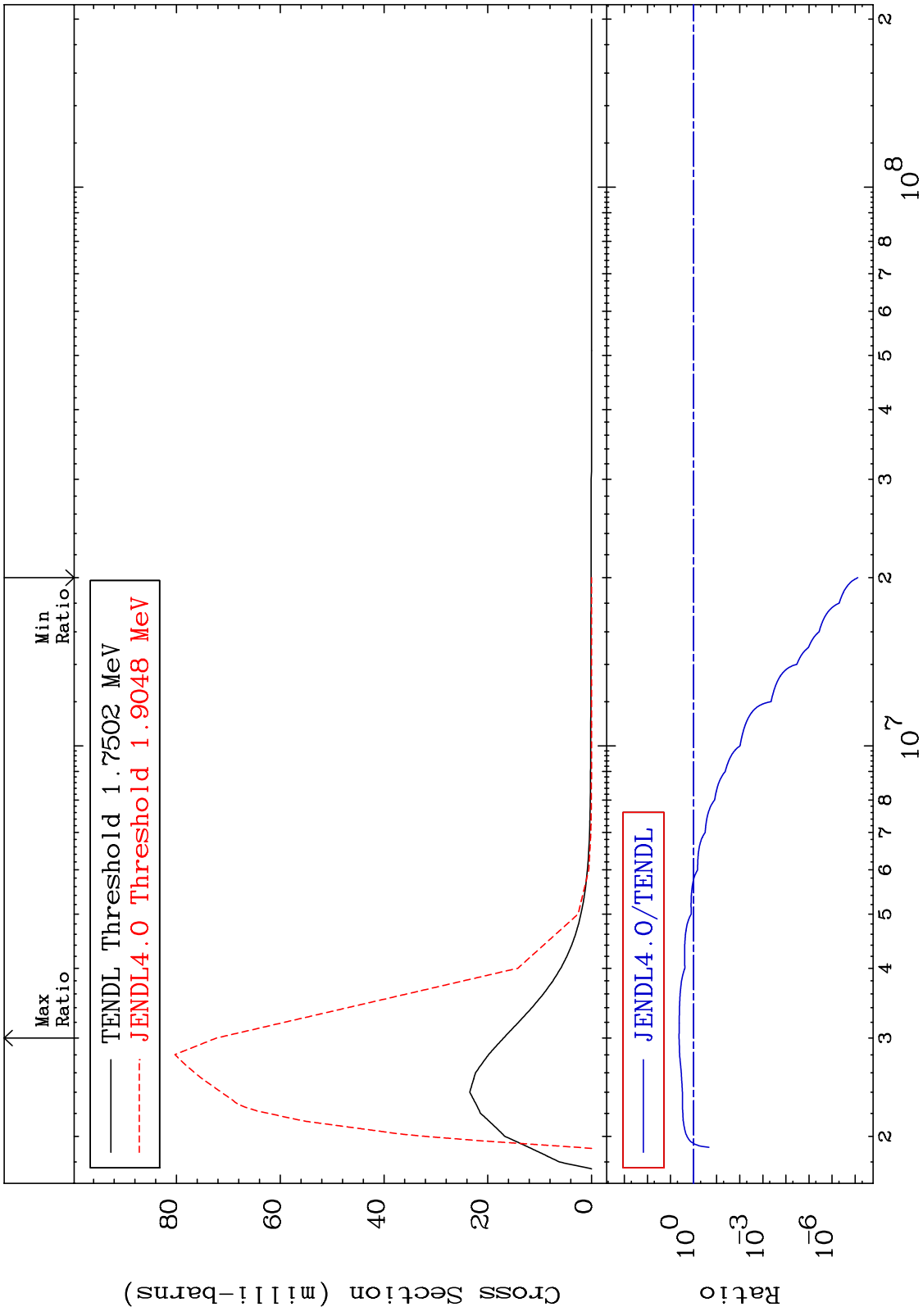
MAT 5137

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

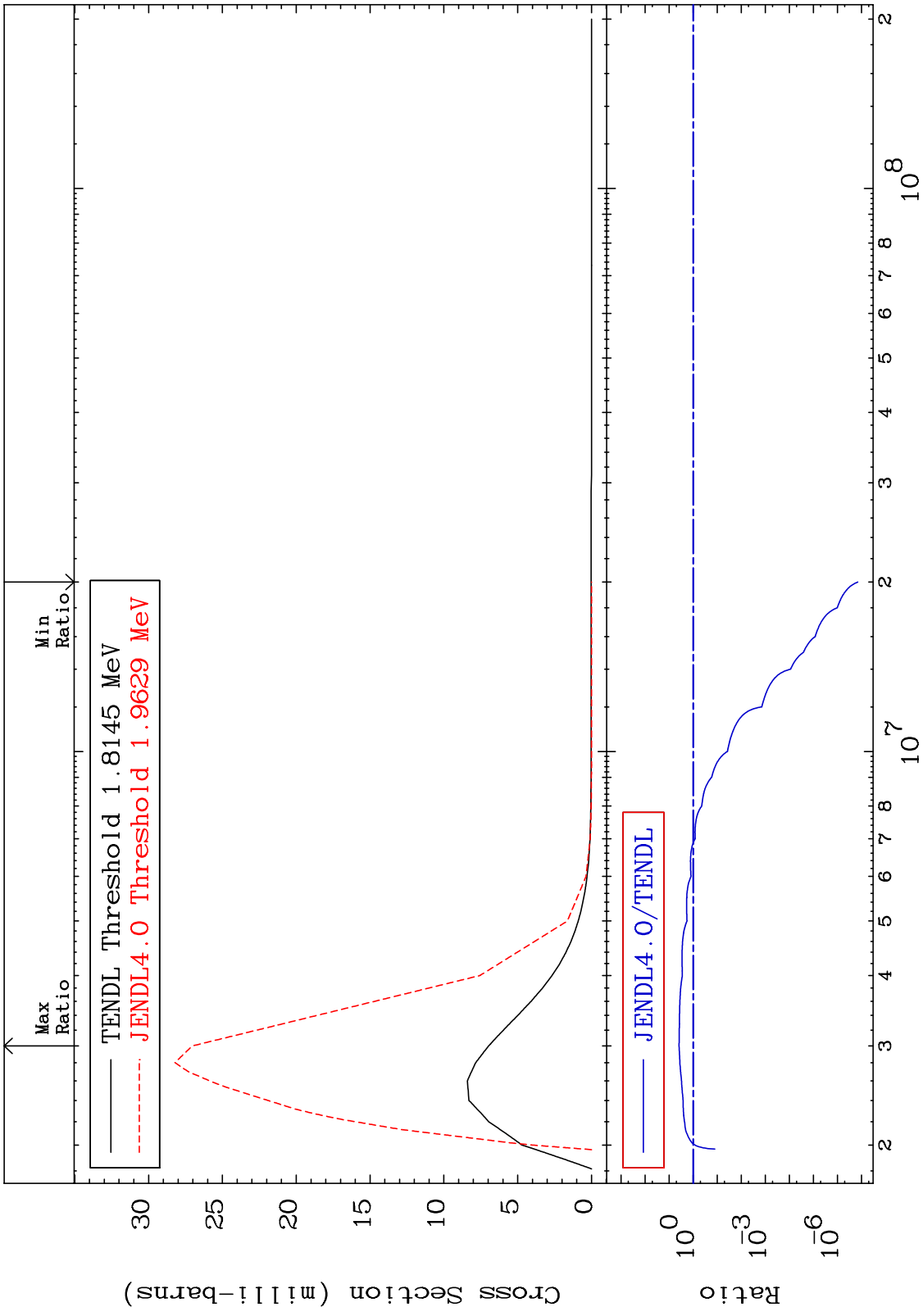
51-Sb-125
-100.0 To 162.4 %



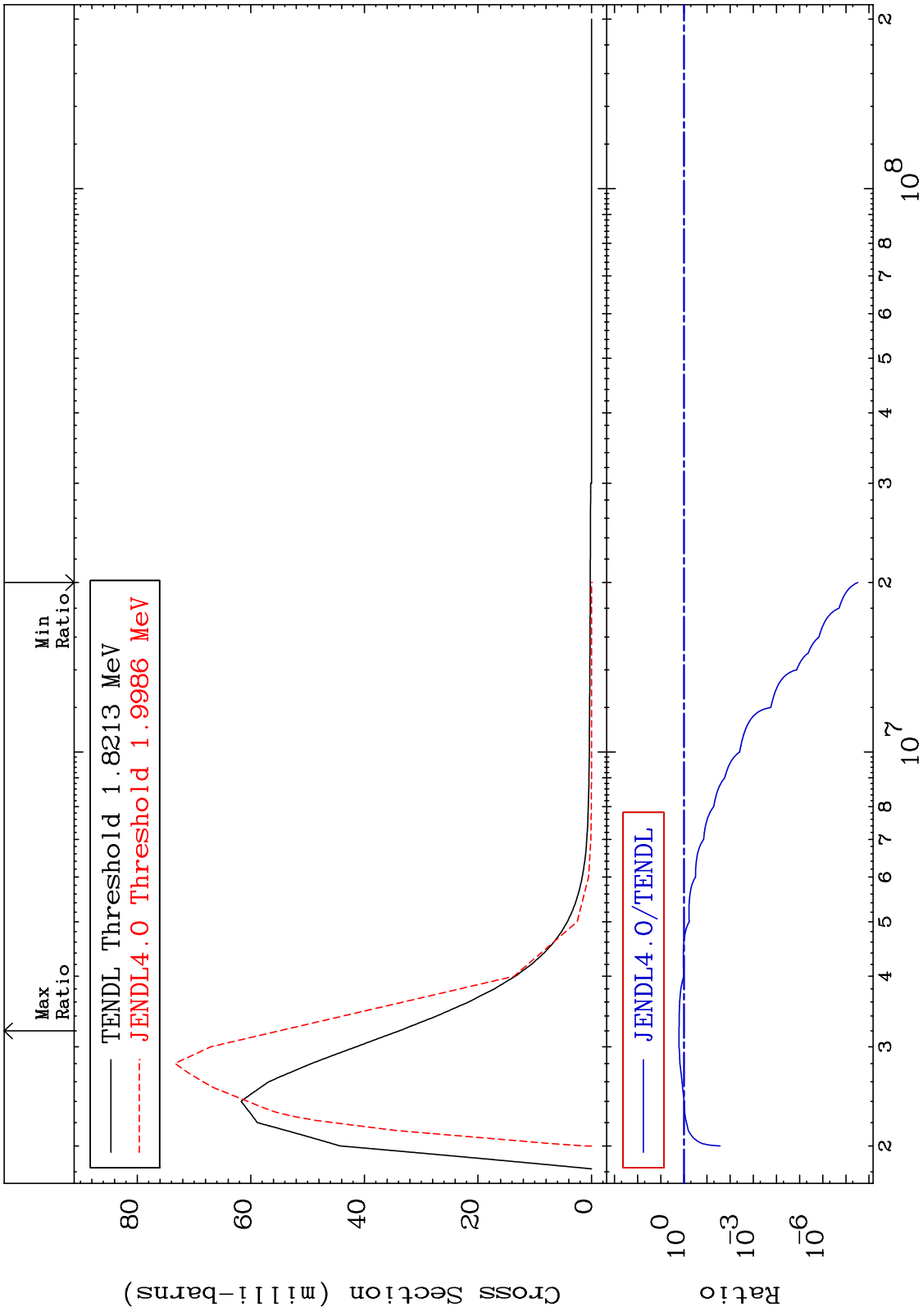
MAT 5137 MT= 63 (n,n') Level Cross Section 51-Sb-125 -100.0 To 326.5 %



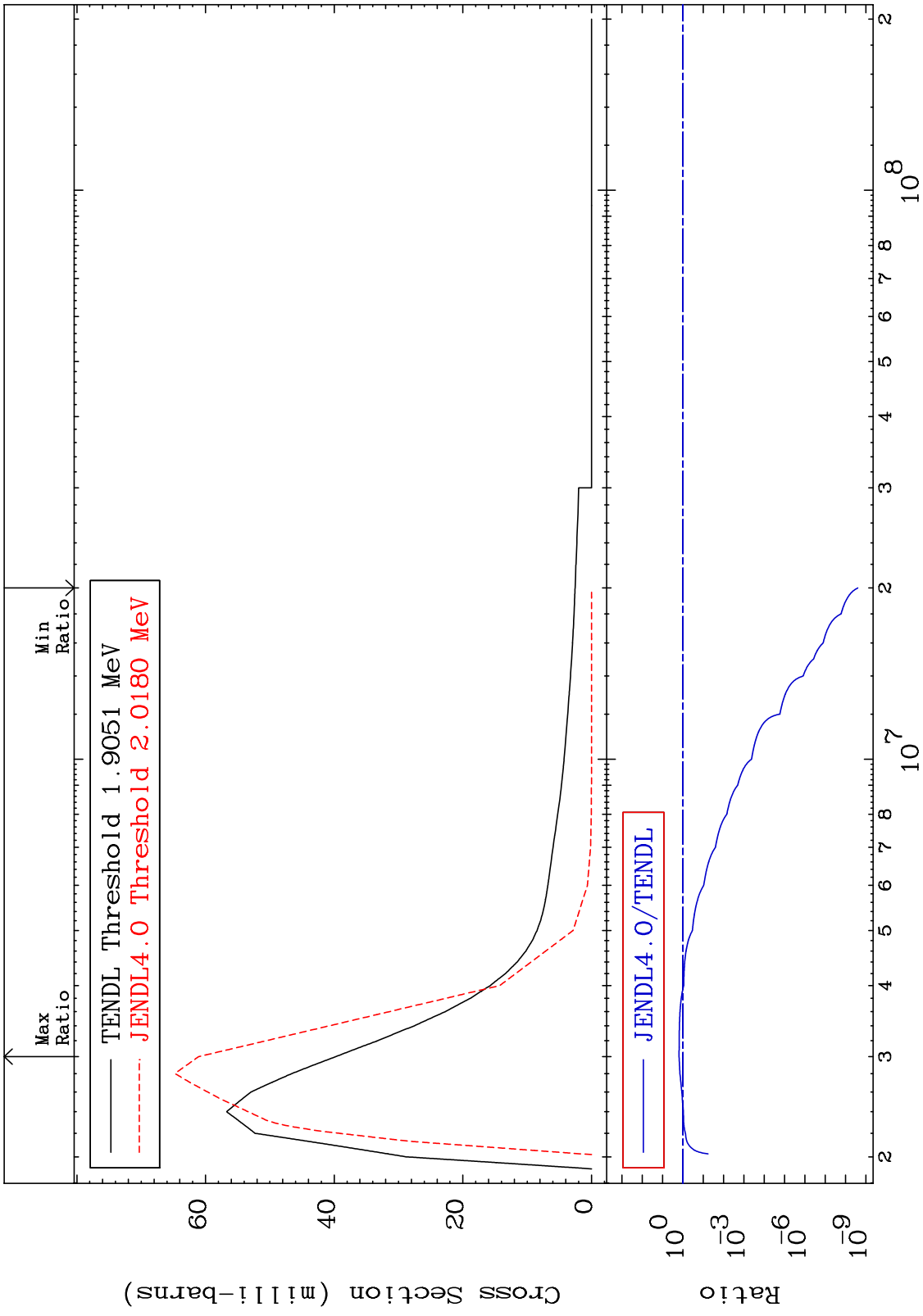
MAT 5137 MT= 64 (n,n') Level Cross Section 51-Sb-125 -100.0 To 288.2 %



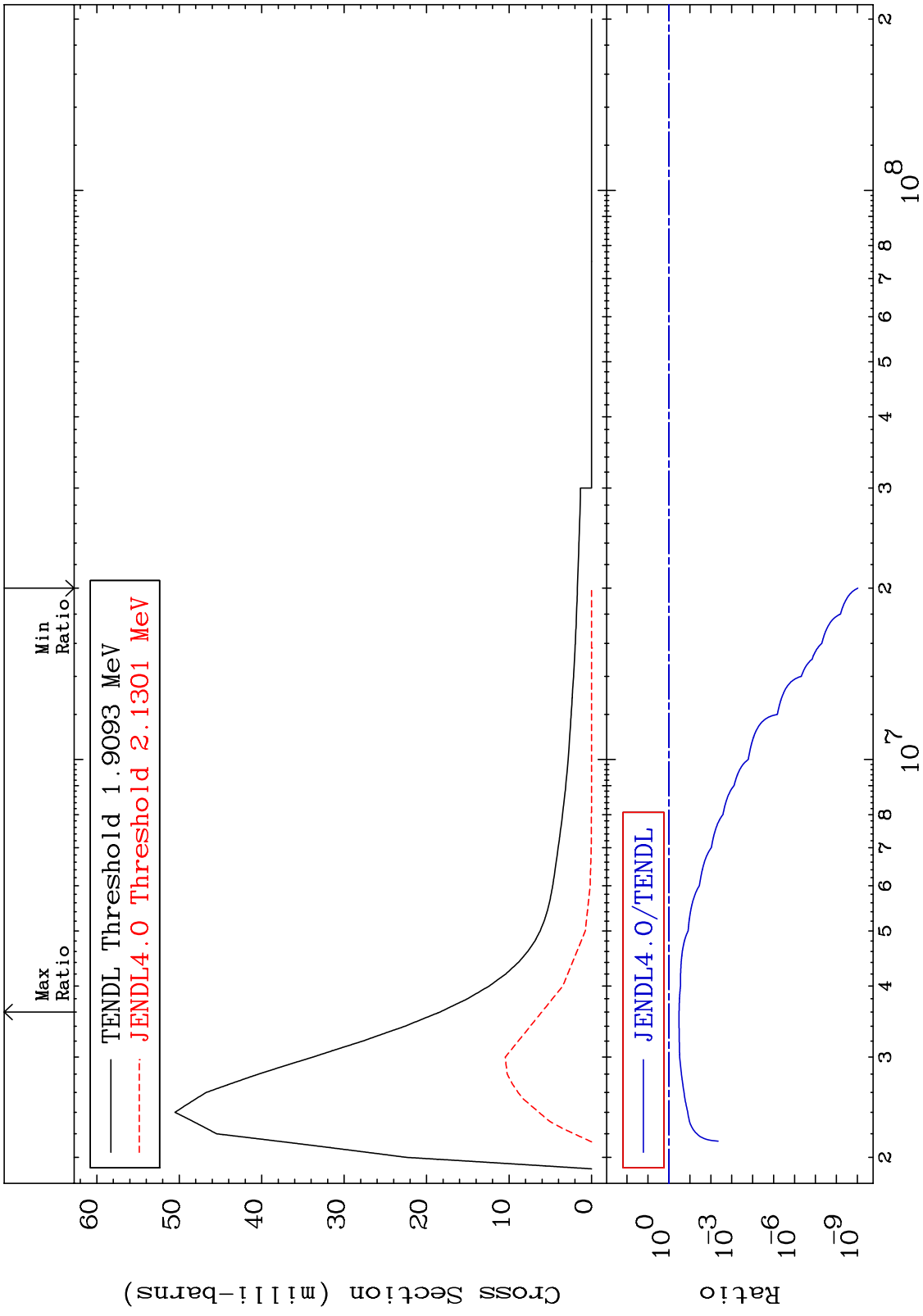
MAT 5137 MT= 65 (n,n') Level Cross Section 51-Sb-125
 -100.0 To 62.48 %



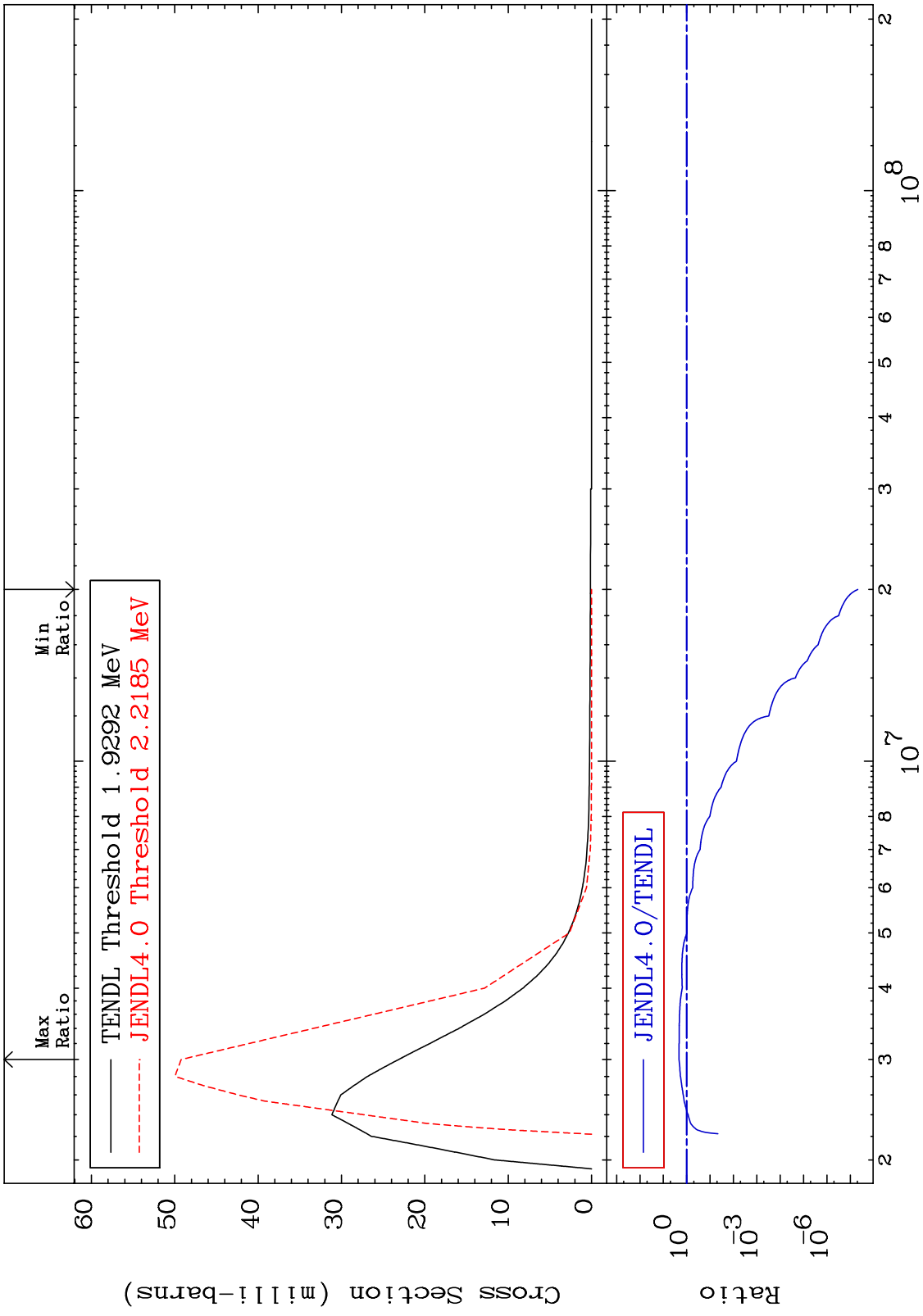
MAT 5137 MT= 66 (n,n') Level Cross Section 51-Sb-125 -100.0 To 53.63 %



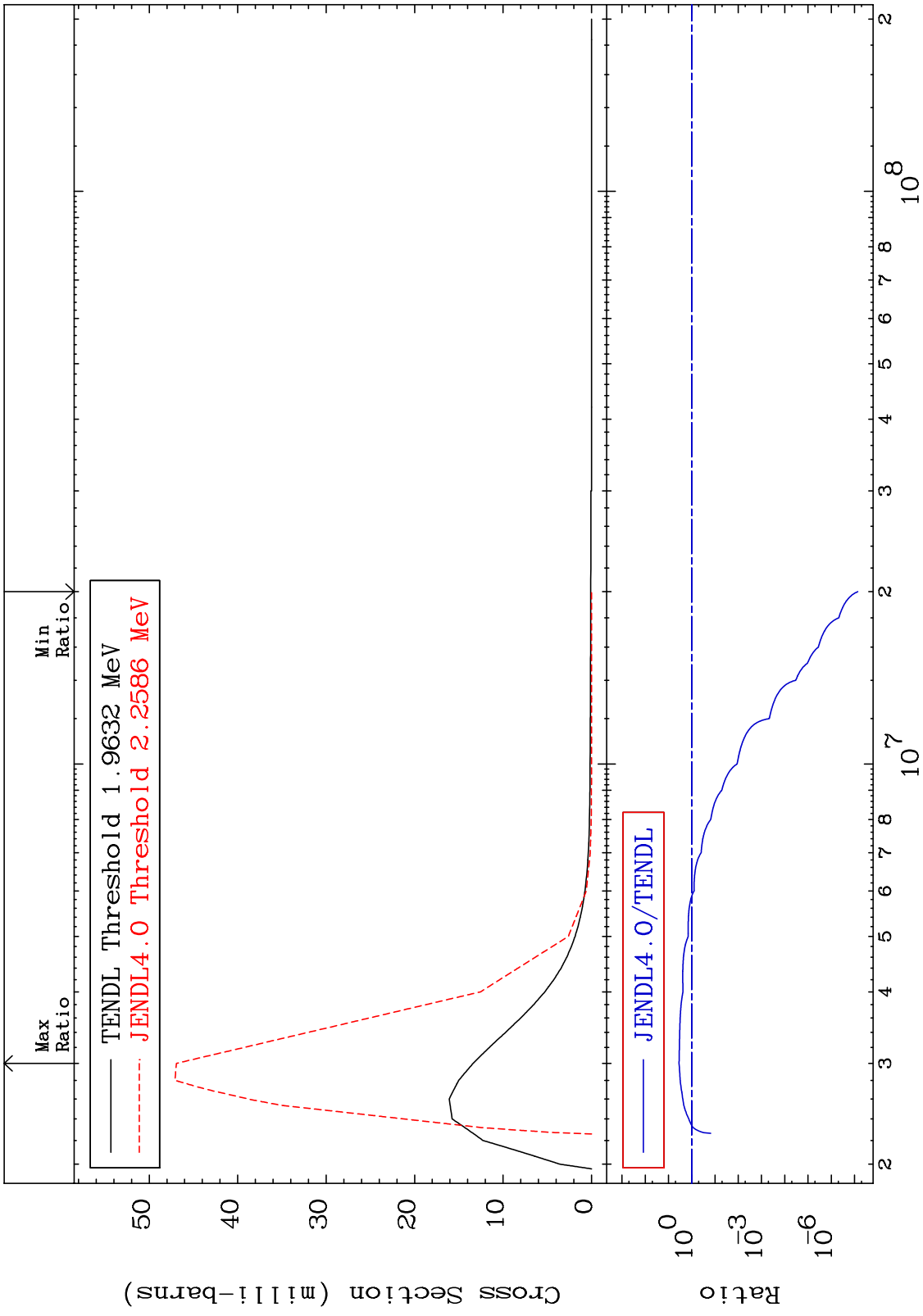
MAT 5137 MT= 67 (n,n') Level Cross Section 51-Sb-125 -100.0 To -67.15%



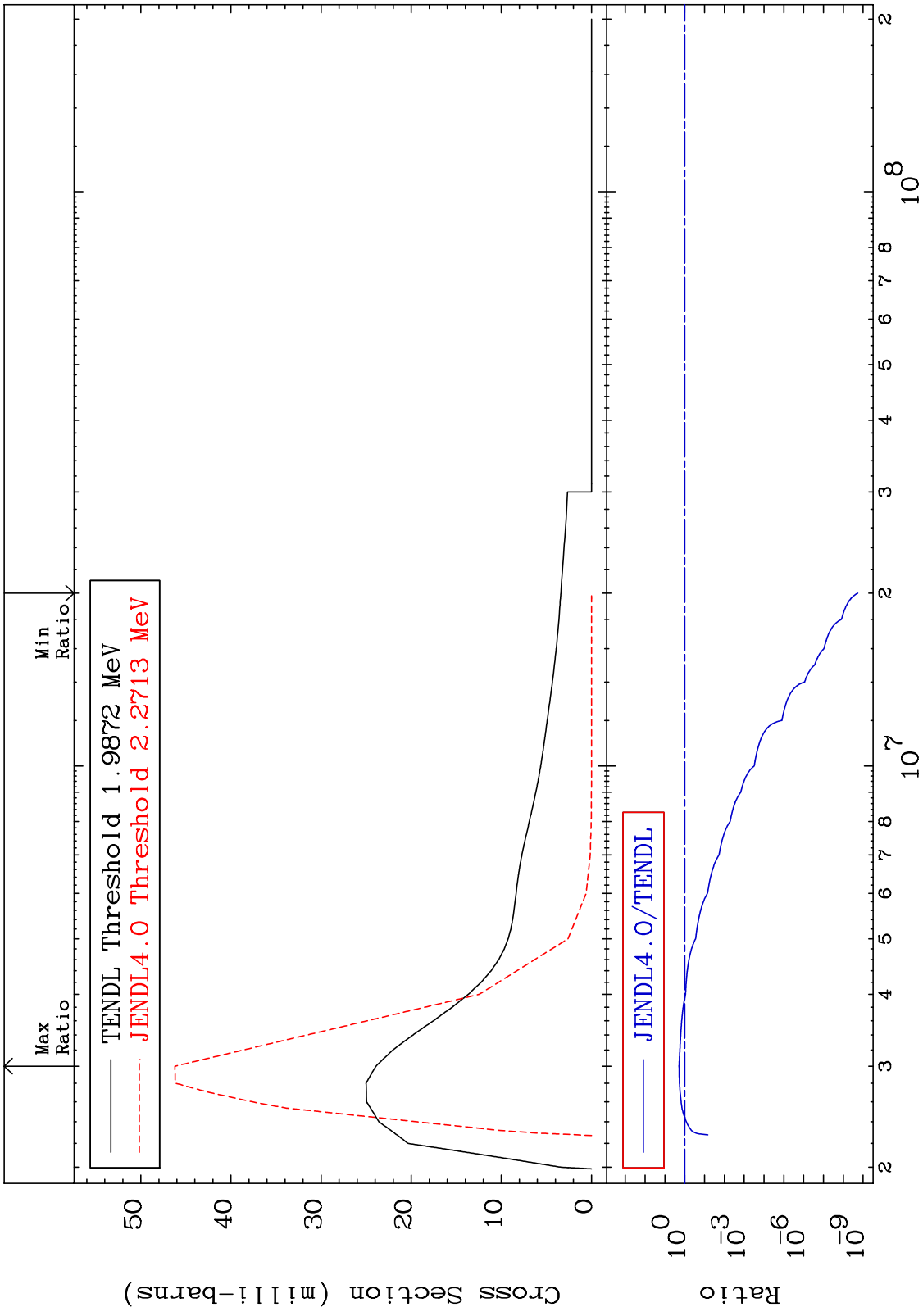
MAT 5137 MT= 68 (n,n') Level Cross Section 51-Sb-125
 -100.0 To 112.8 %



MAT 5137 MT= 69 (n,n') Level Cross Section 51-Sb-125 -100.0 To 250.6 %



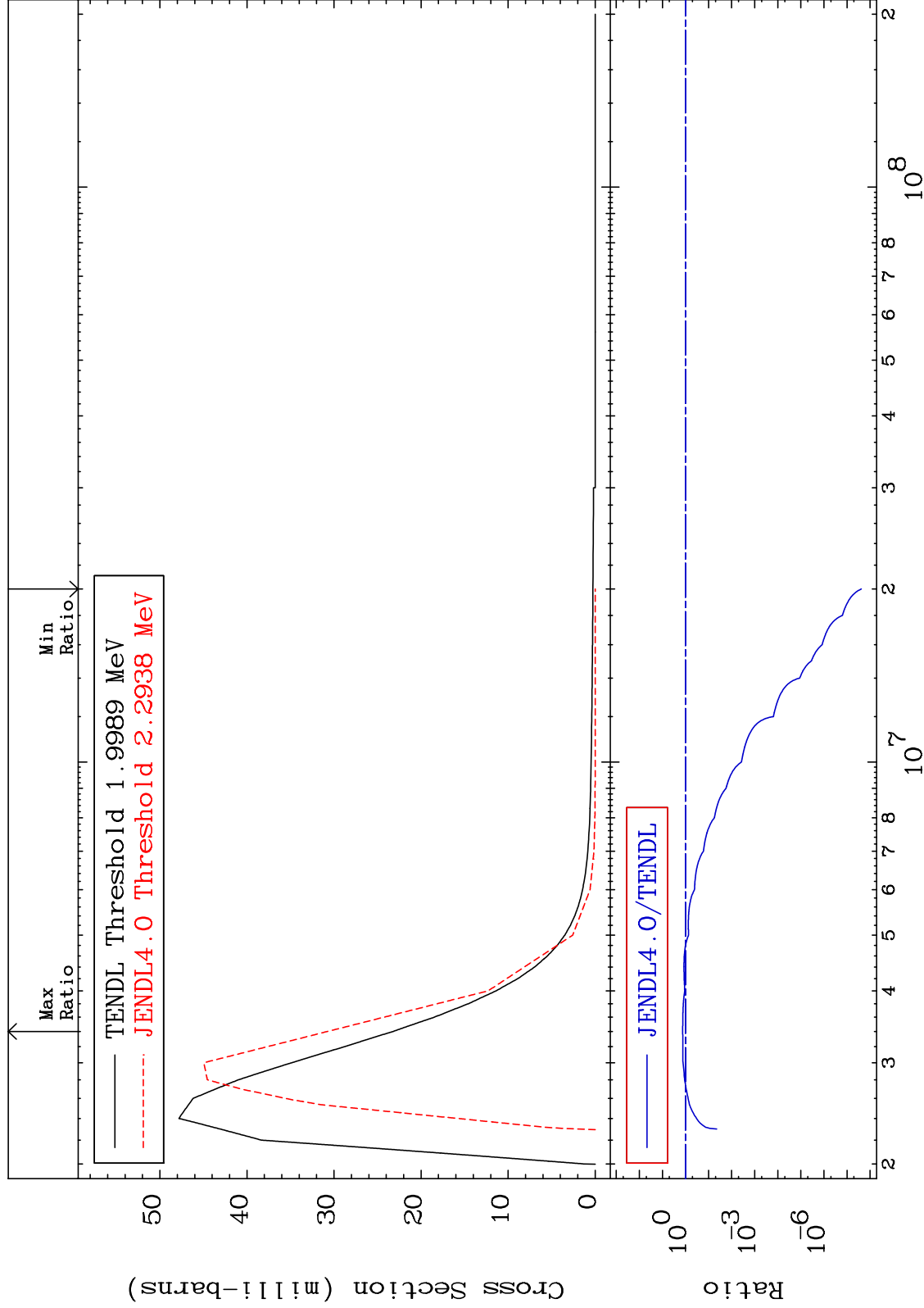
MAT 5137 MT= 70 (n,n') Level Cross Section 51-Sb-125 -100.0 To 93.24 %



MAT 5137

MT= 71 (n,n') Level
Cross Section

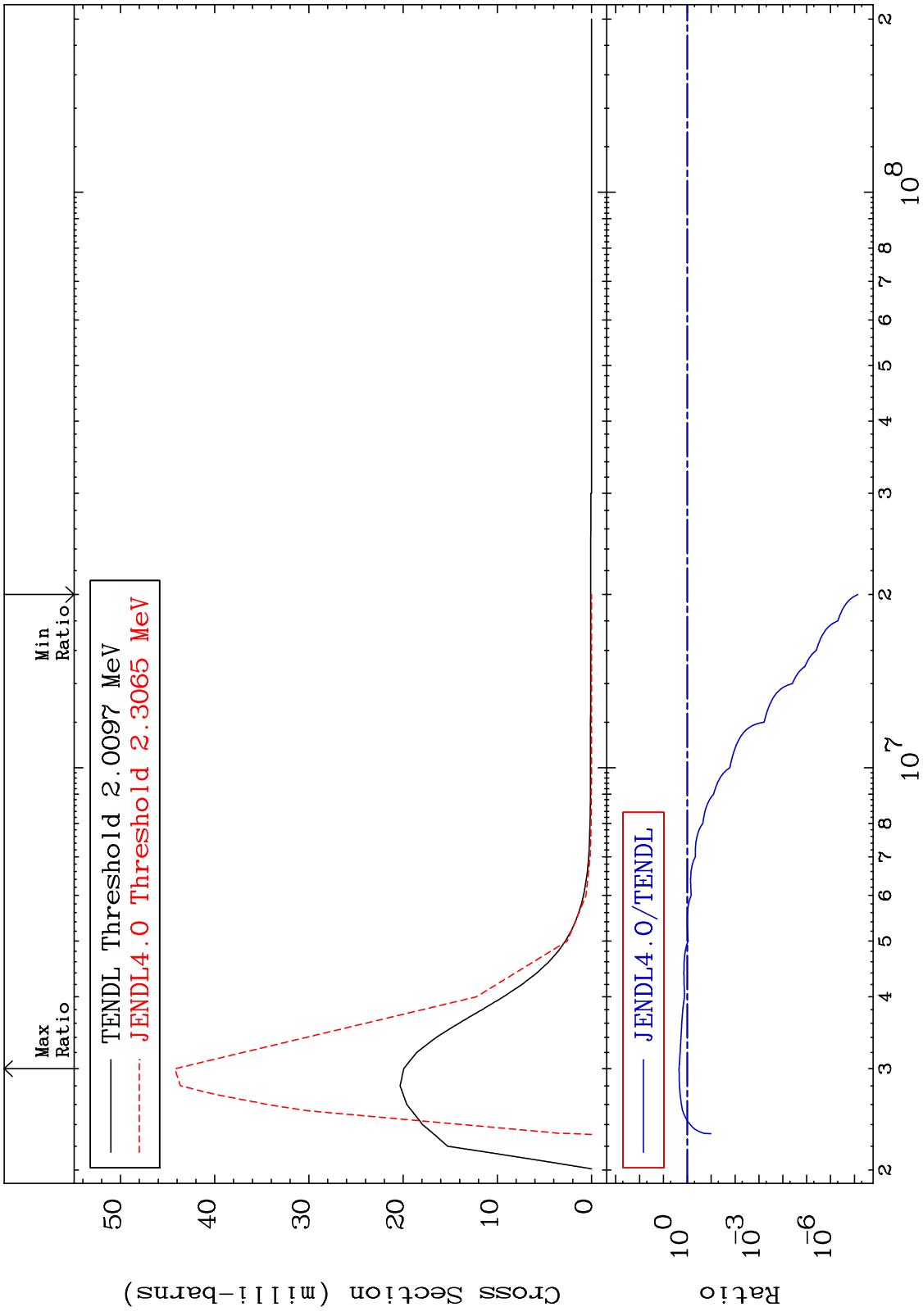
51-Sb-125
-100.0 To 32.42 %



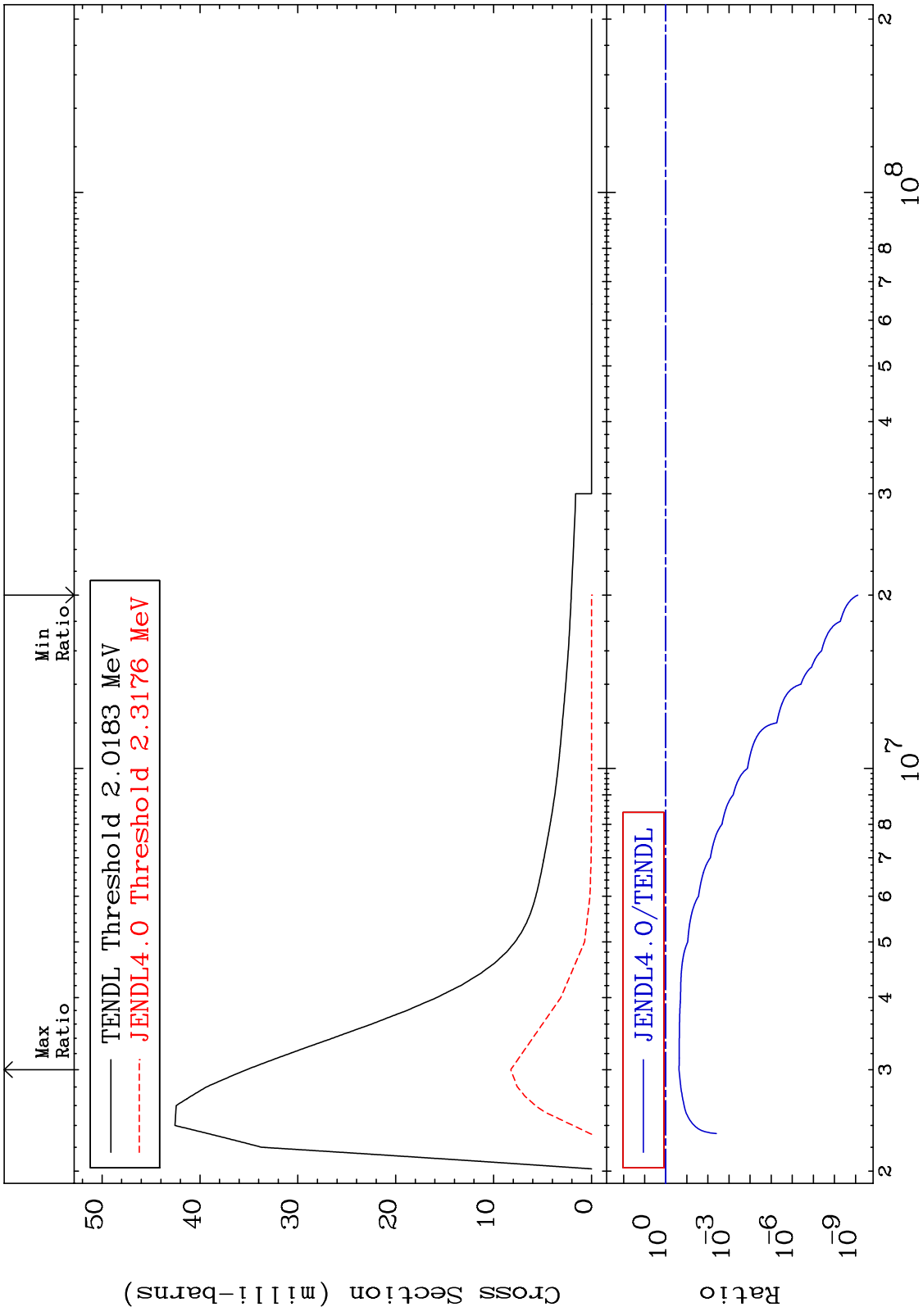
30

51-Sb-125

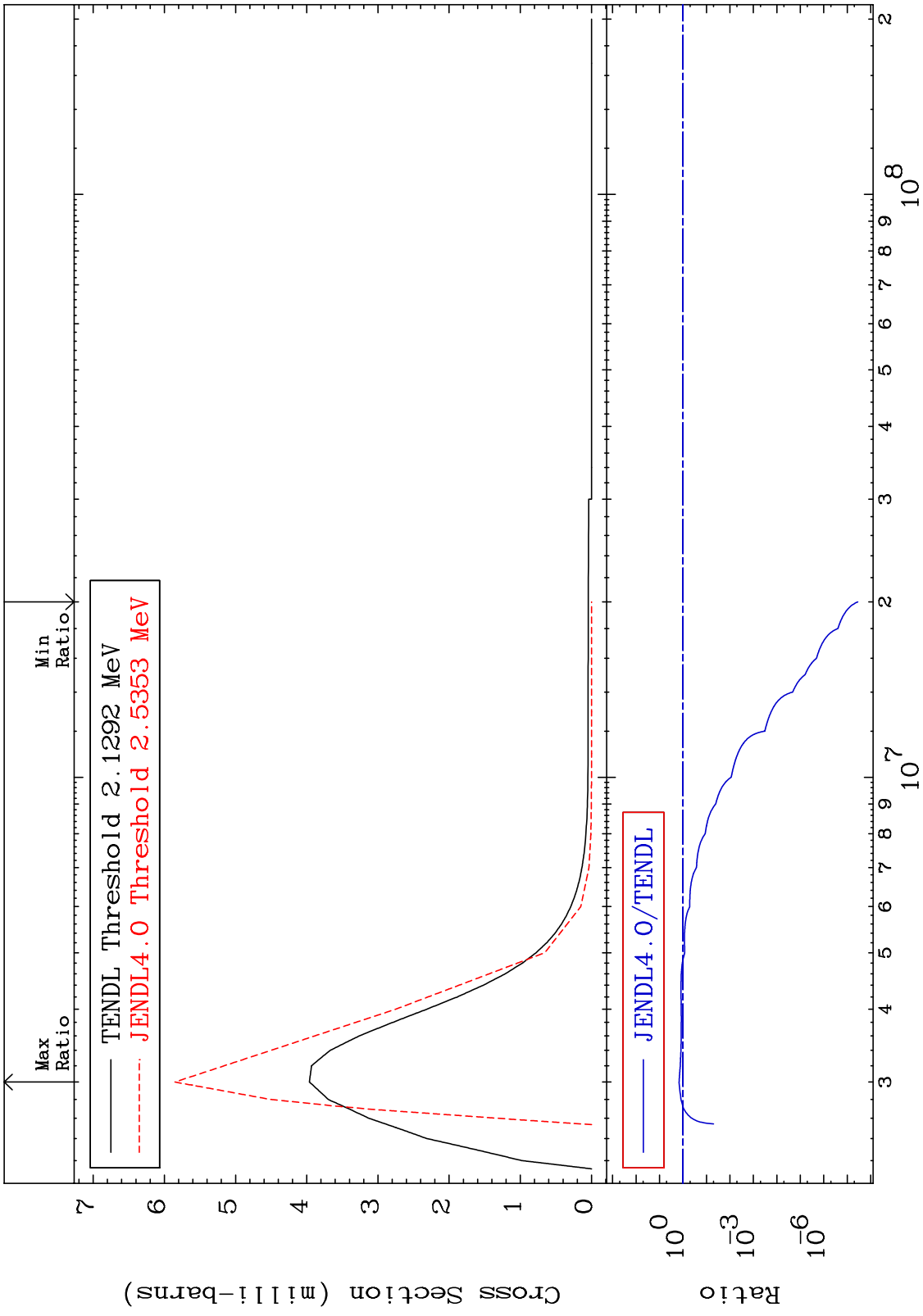
MAT 5137 MT= 72 (n,n') Level Cross Section 51-Sb-125 -100.0 To 121.8 %



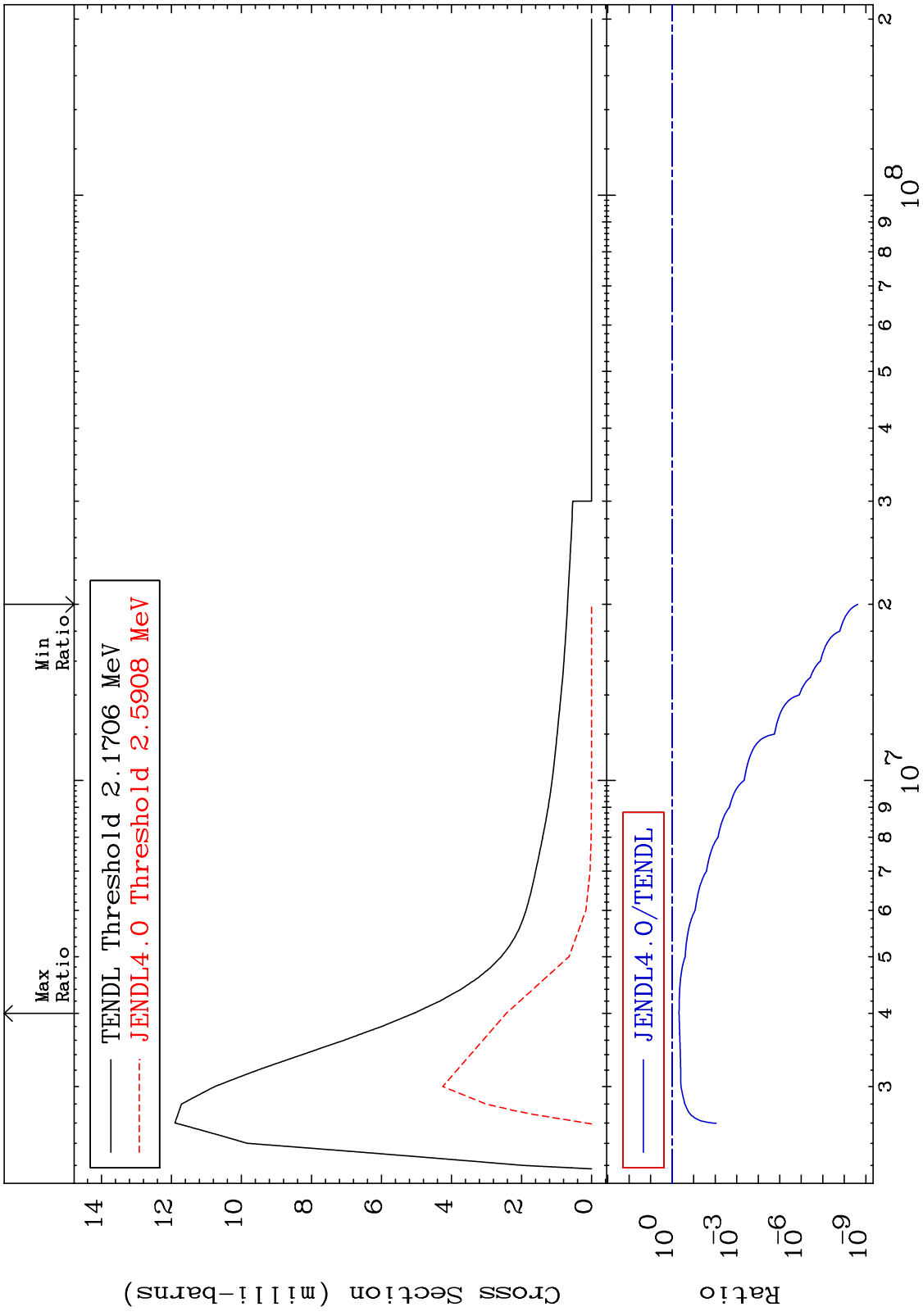
MAT 5137 MT= 73 (n,n') Level Cross Section 51-Sb-125 -100.0 To -76.60%



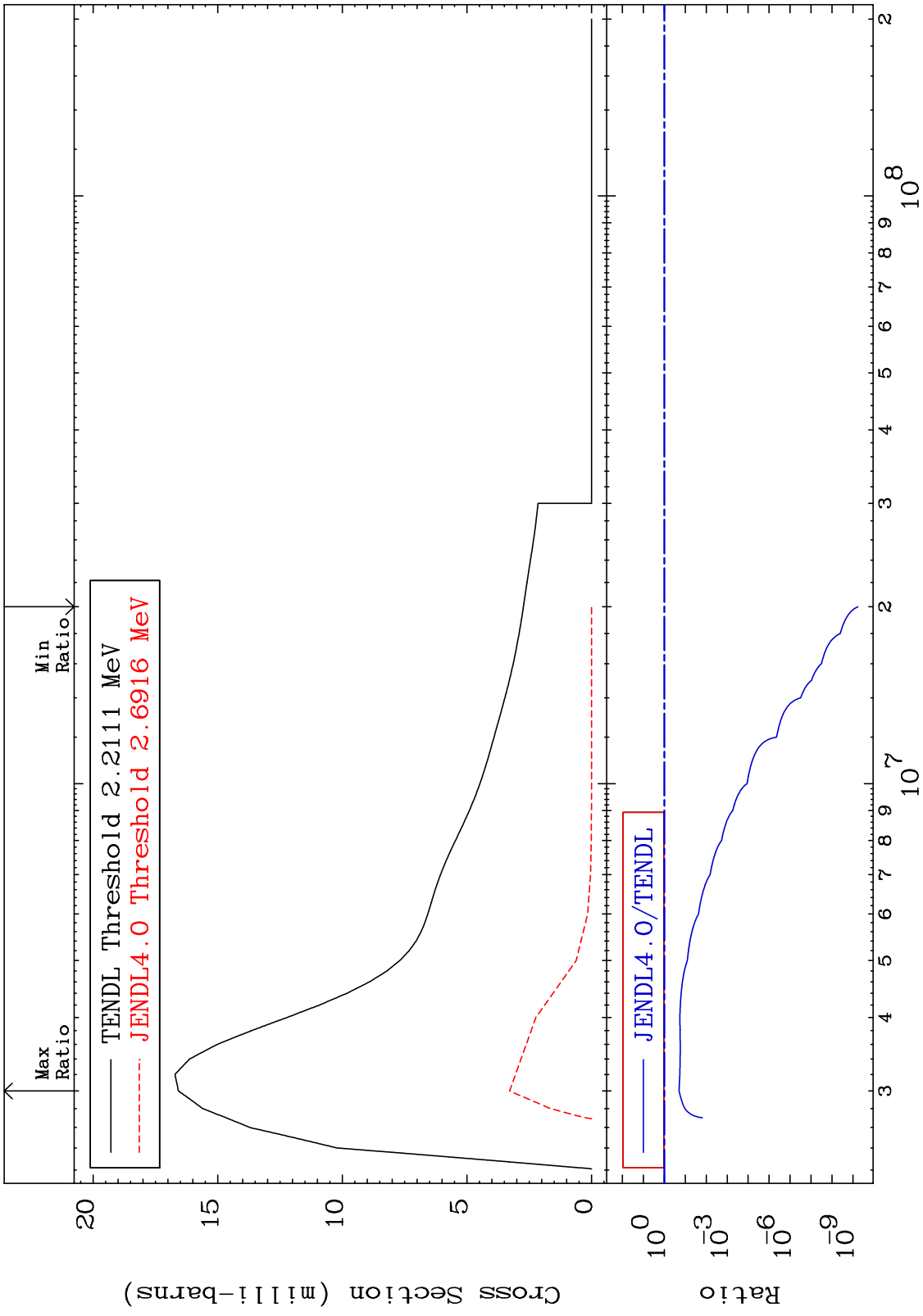
MAT 5137 MT= 74 (n,n') Level Cross Section 51-Sb-125 -100.0 To 47.64 %



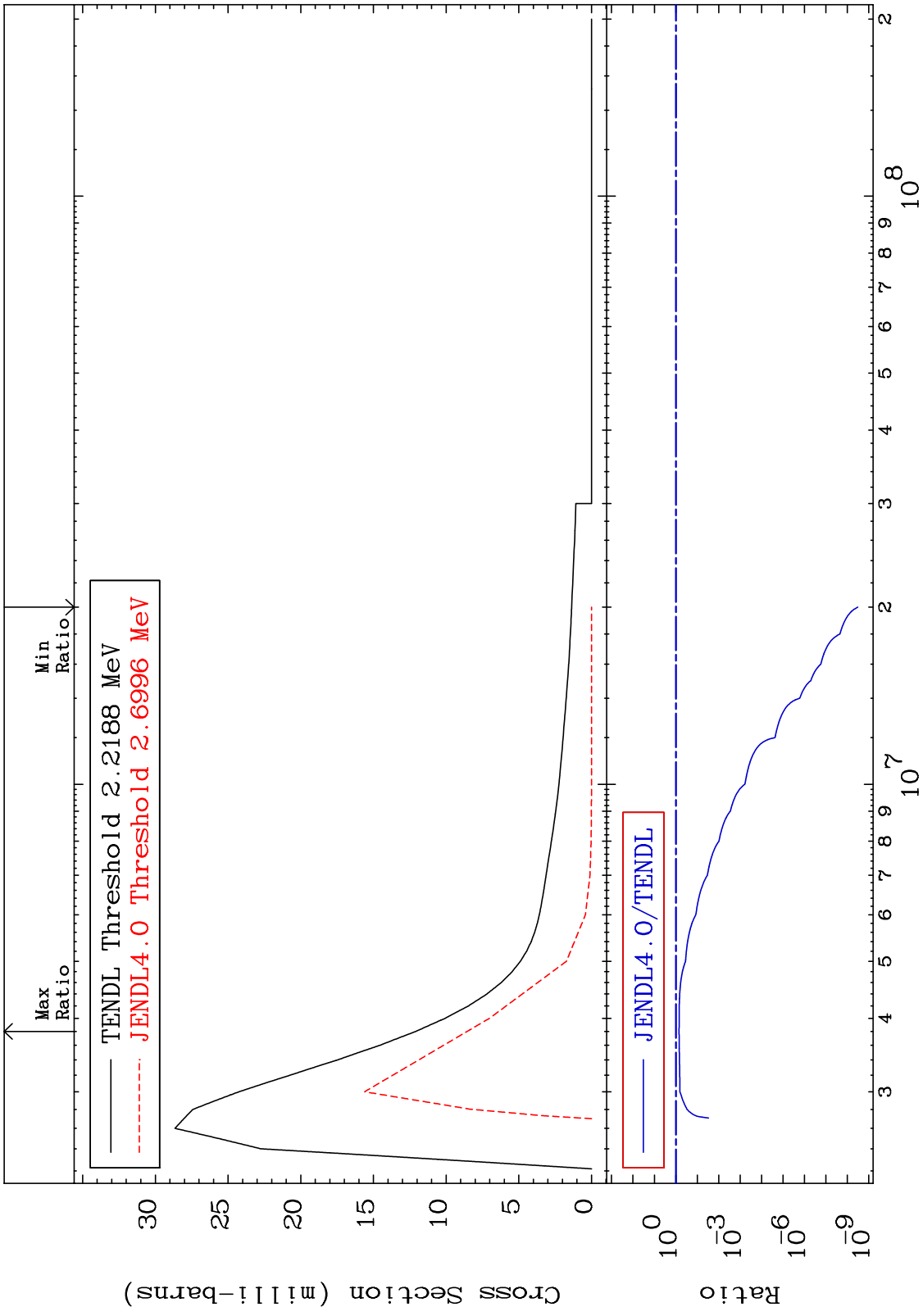
MAT 5137 MT= 75 (n,n') Level Cross Section 51-Sb-125 -100.0 To -52.04%



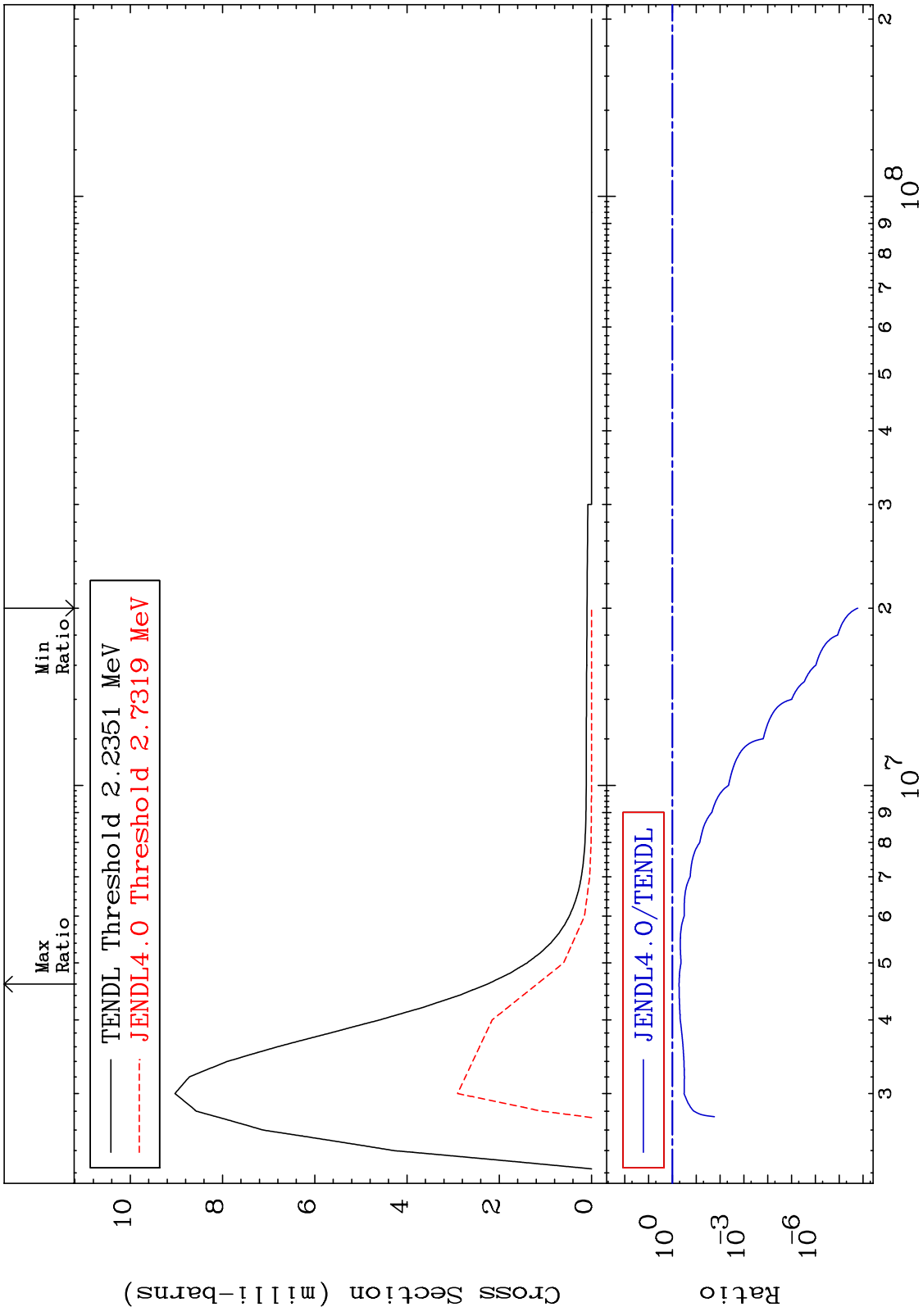
MAT 5137 MT= 76 (n,n') Level Cross Section 51-Sb-125 -100.0 To -80.17%



MAT 5137 MT= 77 (n,n') Level Cross Section 51-Sb-125 -100.0 To -29.21%



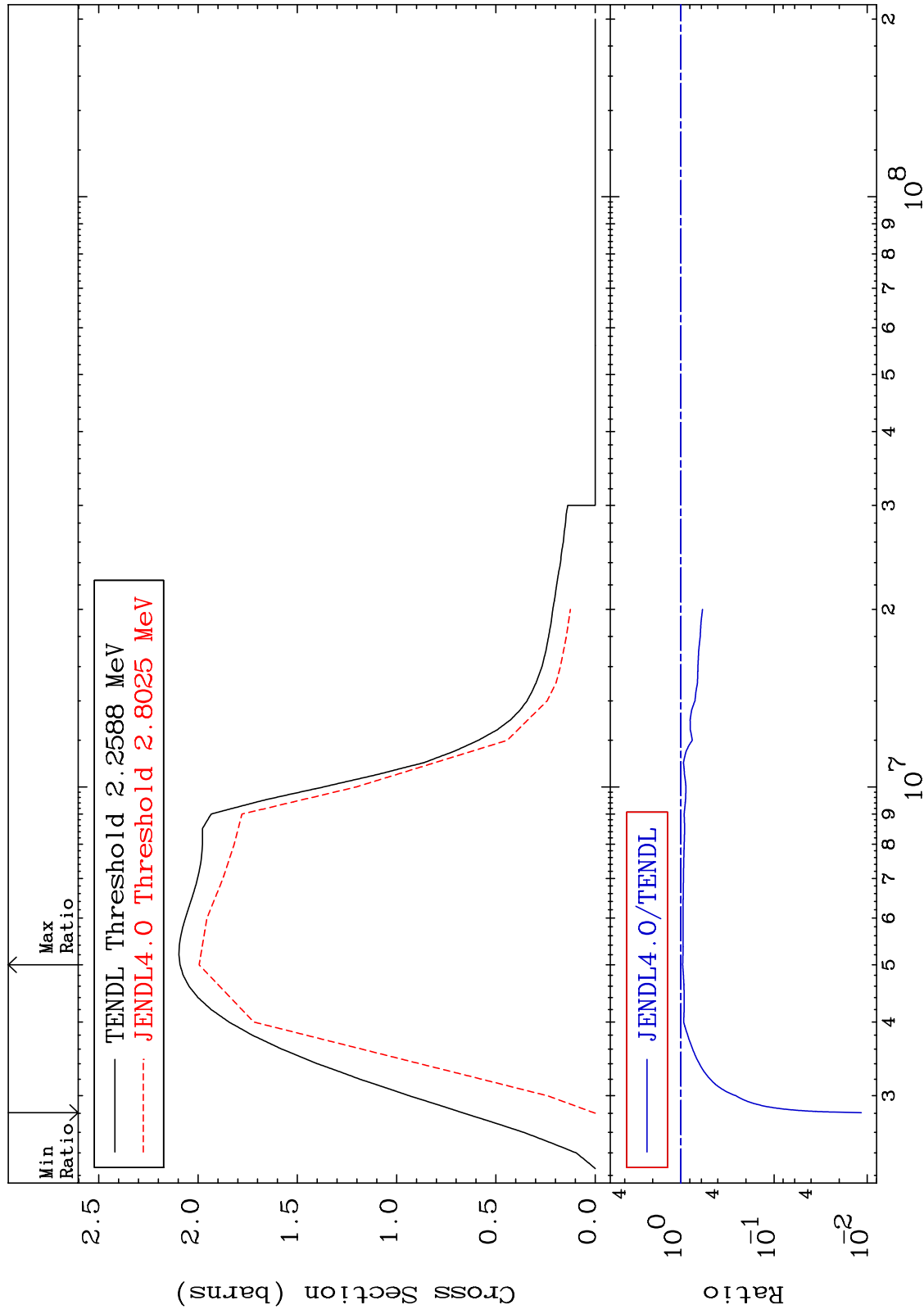
MAT 5137 MT= 78 (n,n') Level Cross Section 51-Sb-125 -100.0 To -47.58%



MAT 5137

(n,n') Continuum
Cross Section

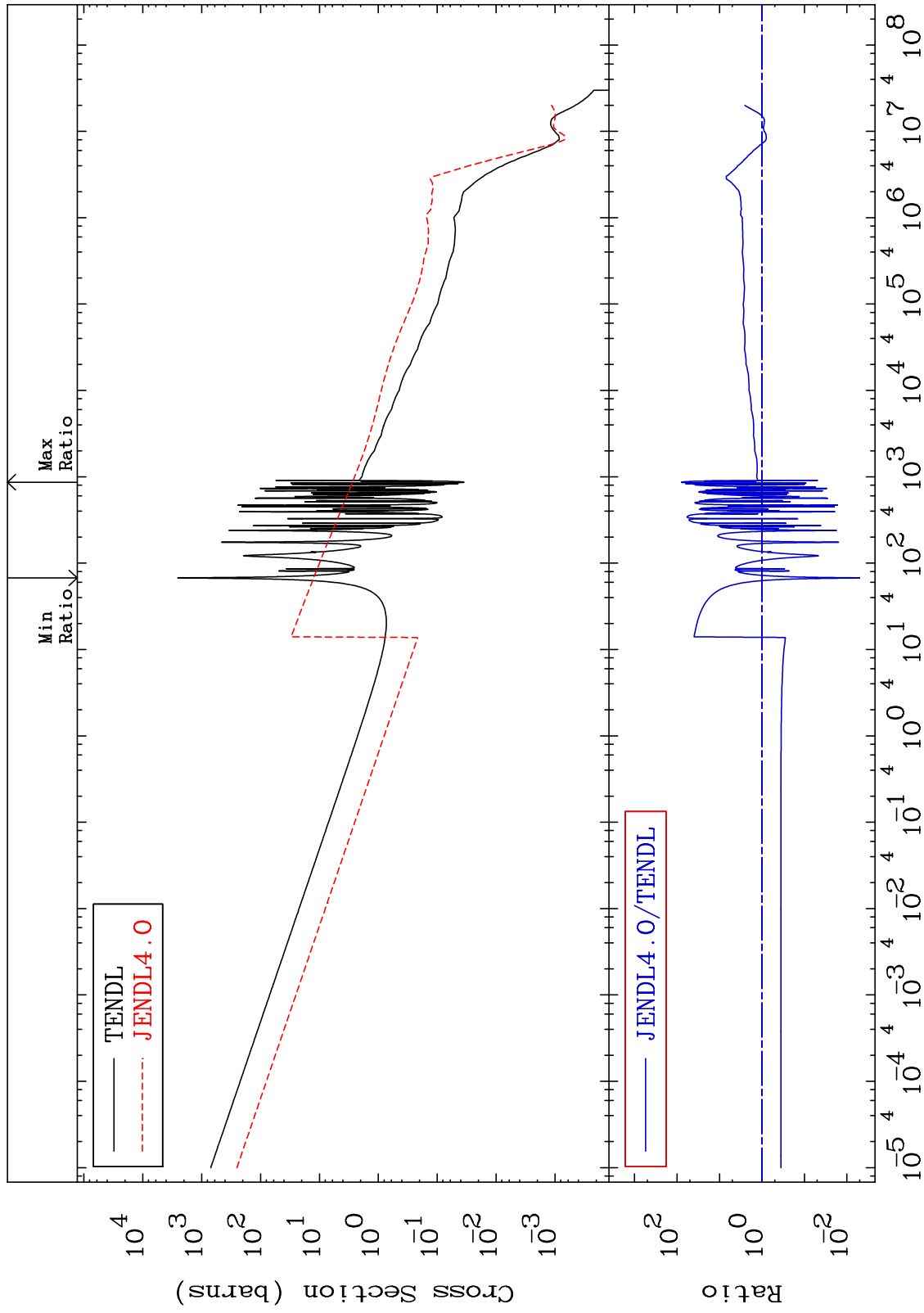
51-Sb-125
-98.84 To -4.598%



MAT 5137

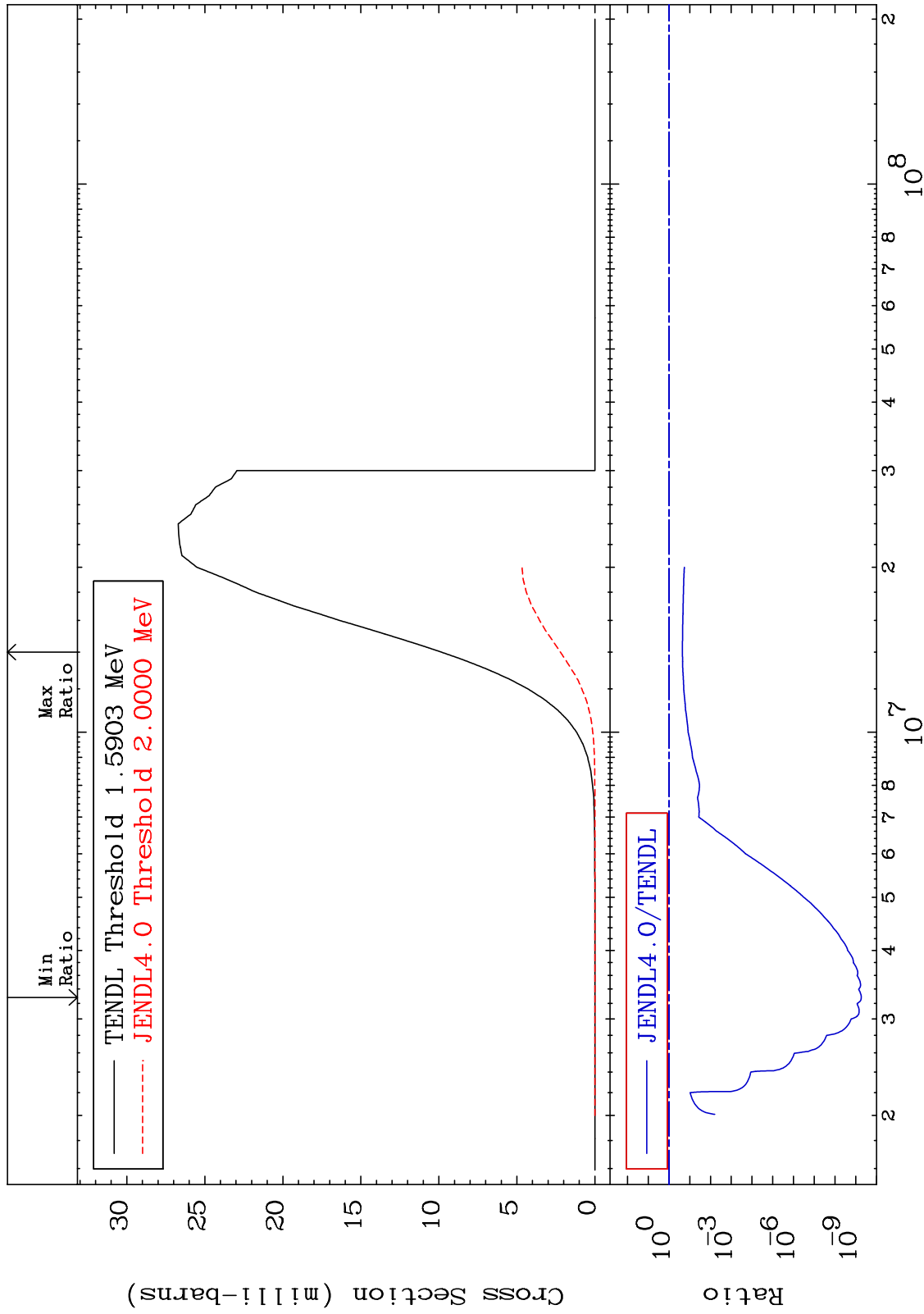
(n, γ)
Cross Section

51-Sb-125
-99.50 To 7856. %

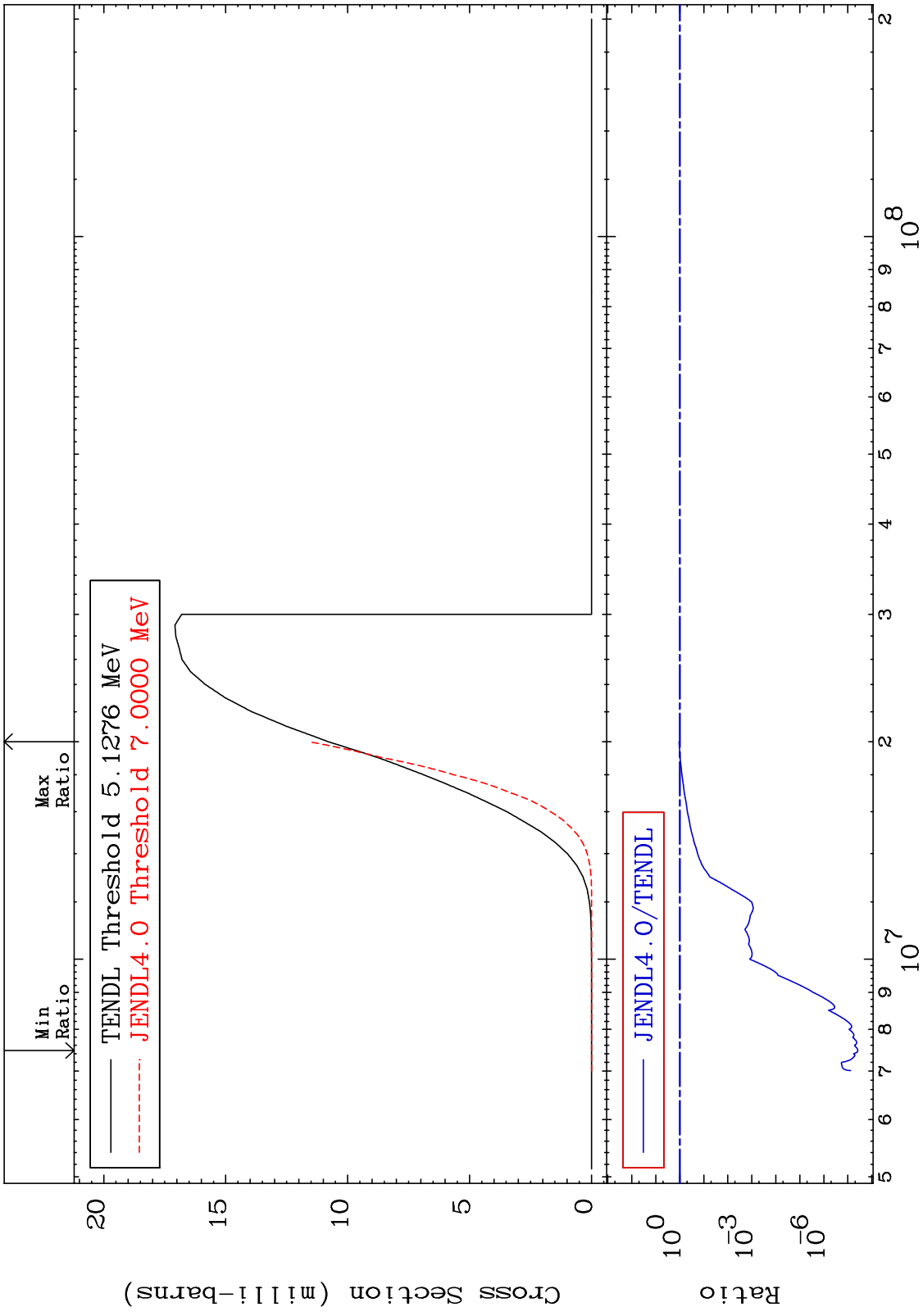


MAT 5137

(n,p) Cross Section
51-Sb-125
-100.0 To -77.48%

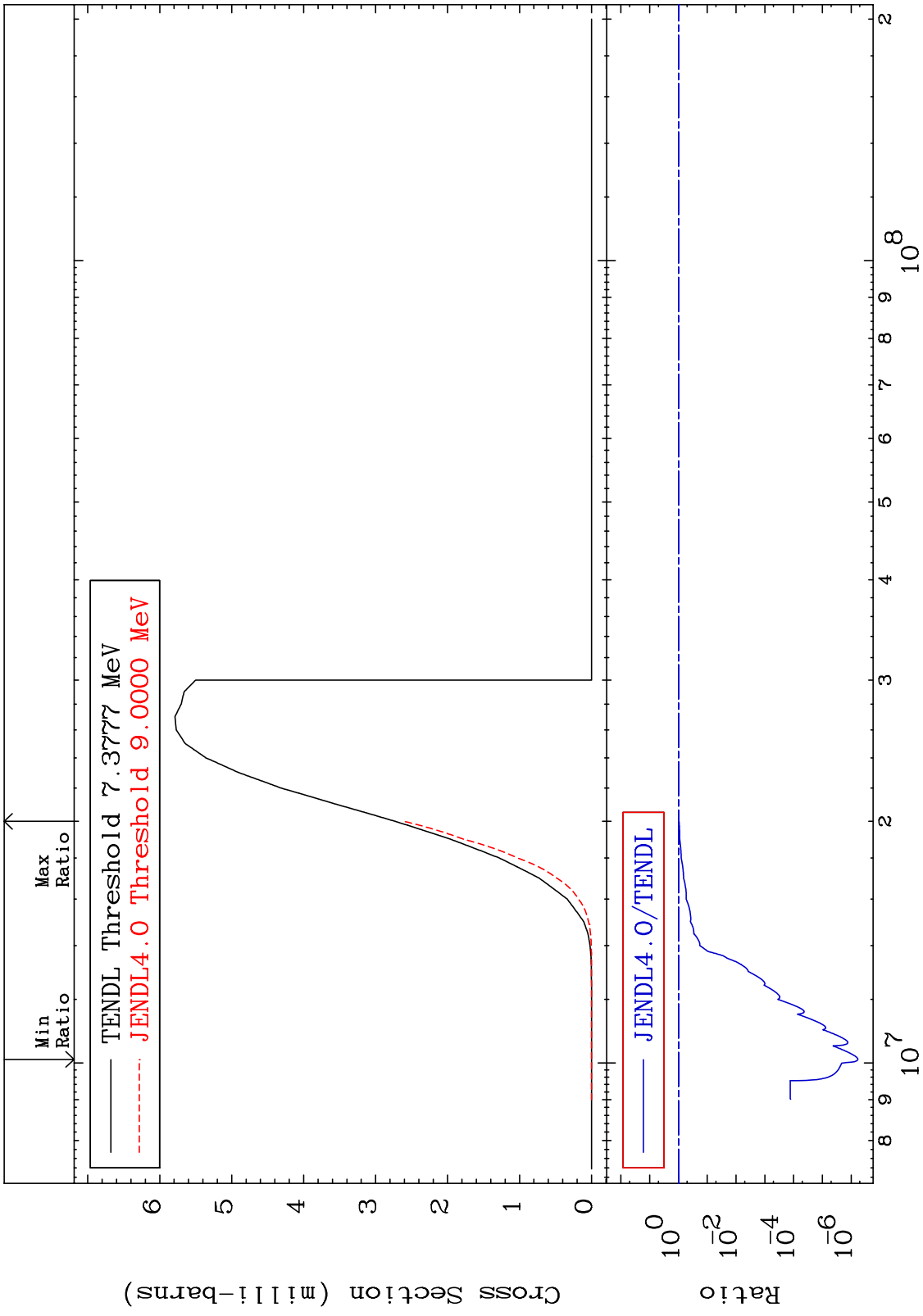


MAT 5137 (n,d) 51-Sb-125
 -100.0 To 7.455 %
 Cross Section



MAT 5137 51-Sb-125
-100.0 To -4.604%

(n,t)
 Cross Section



MAT 5137

(n, α)

51-Sb-125

126.2 To 9999. %

Cross Section

Min Ratio Max Ratio

TENDL Threshold 908.82 eV
JENDL4.0 Threshold 100.00 keV

Cross Section (milli-barns)

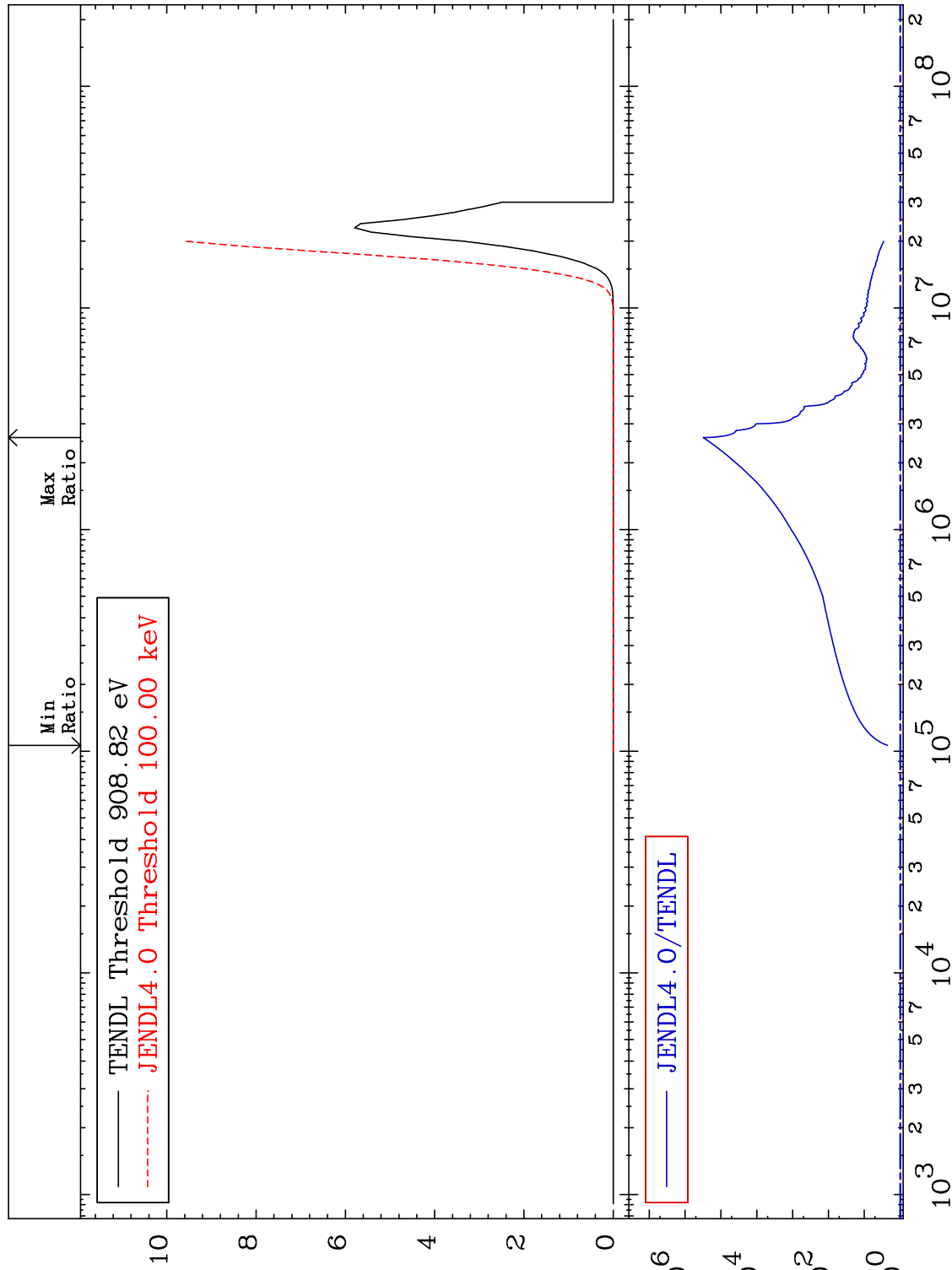
JENDL4.0/TENDL

Ratio

43

Incident Energy (eV)

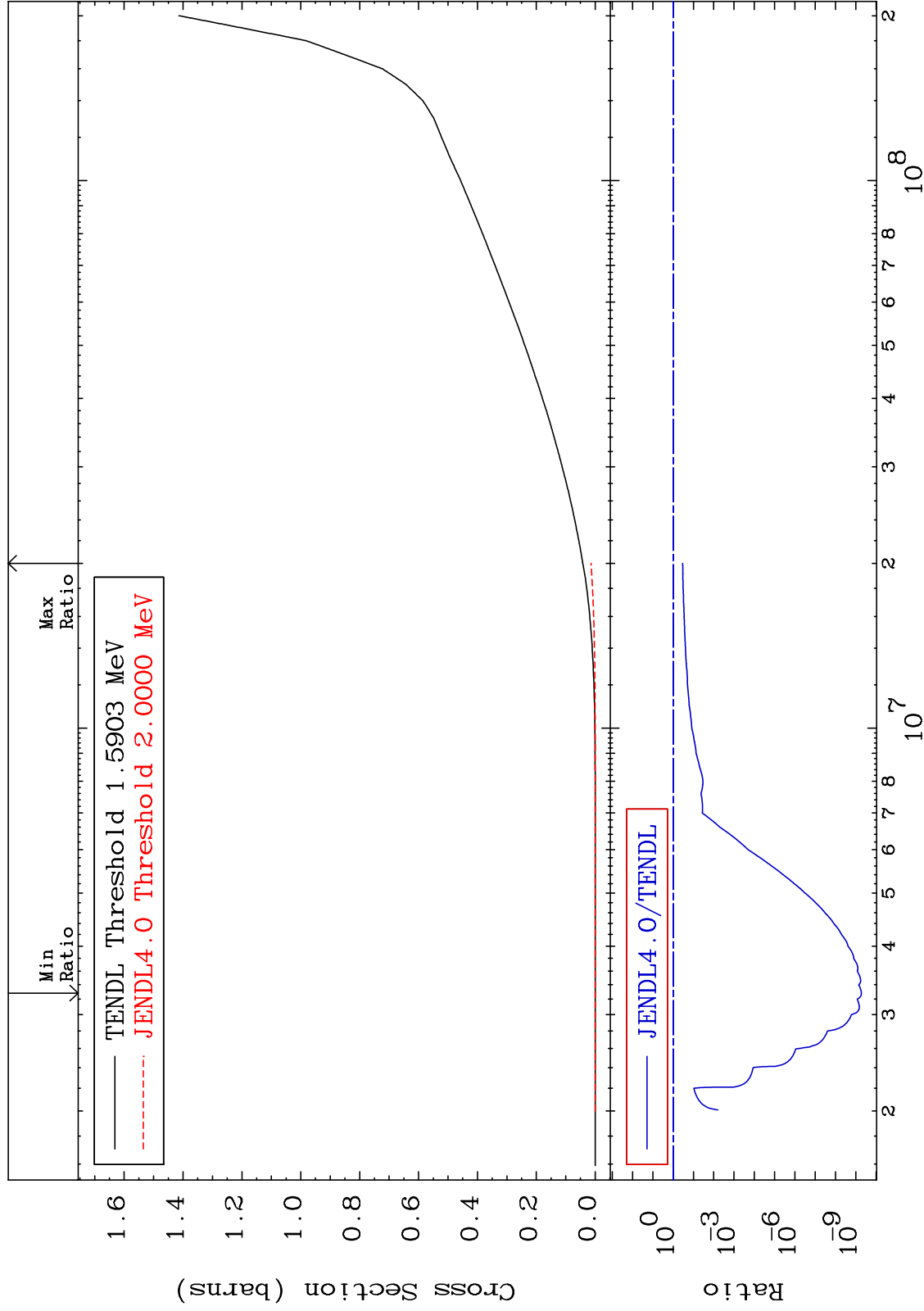
51-Sb-125



MAT 5137

Hydrogen Production
Cross Section

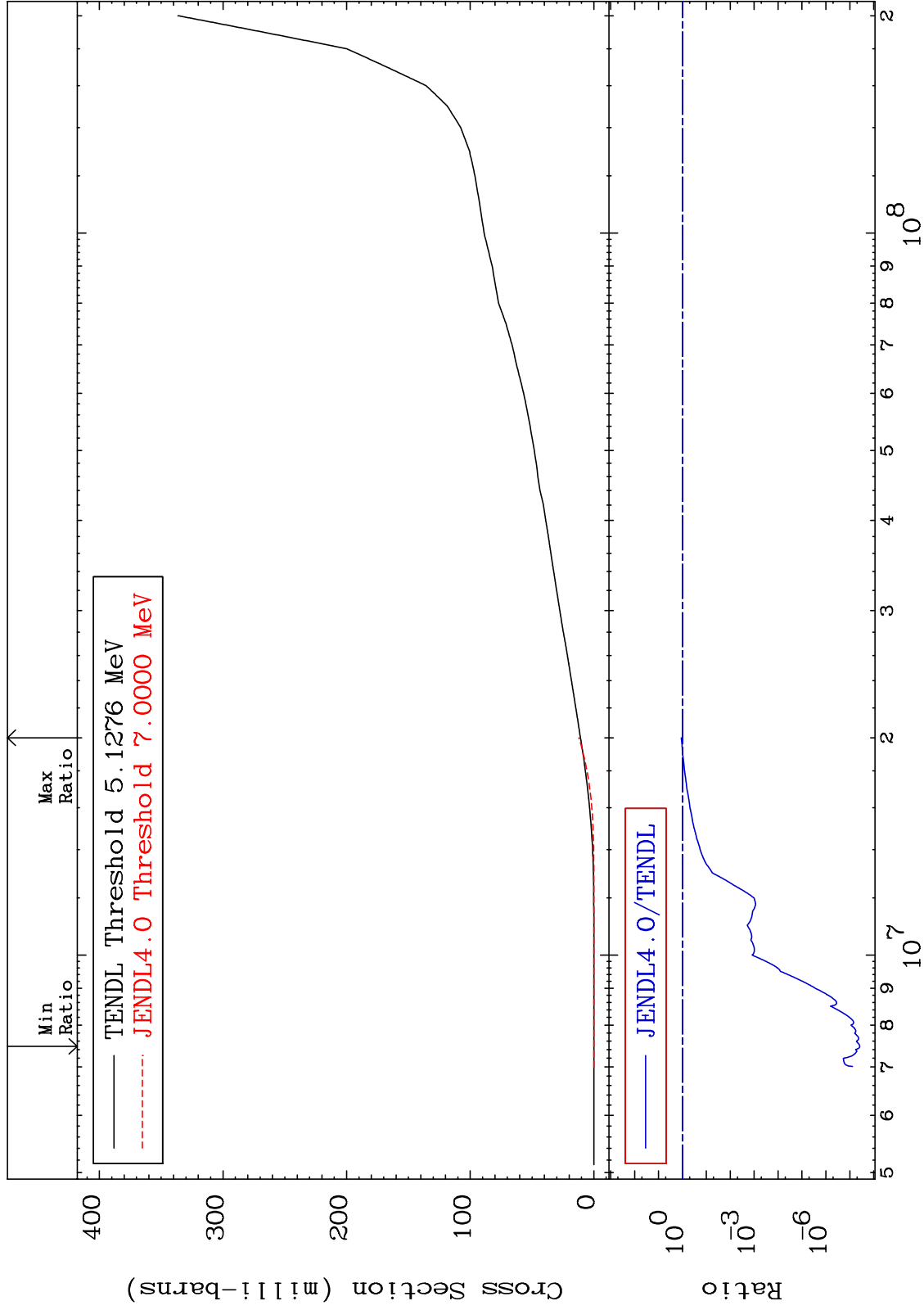
51-Sb-125
-100.0 To -66.17%



MAT 5137

Deuterium Production
Cross Section

51-Sb-125
-100.0 To 12.25 %



45

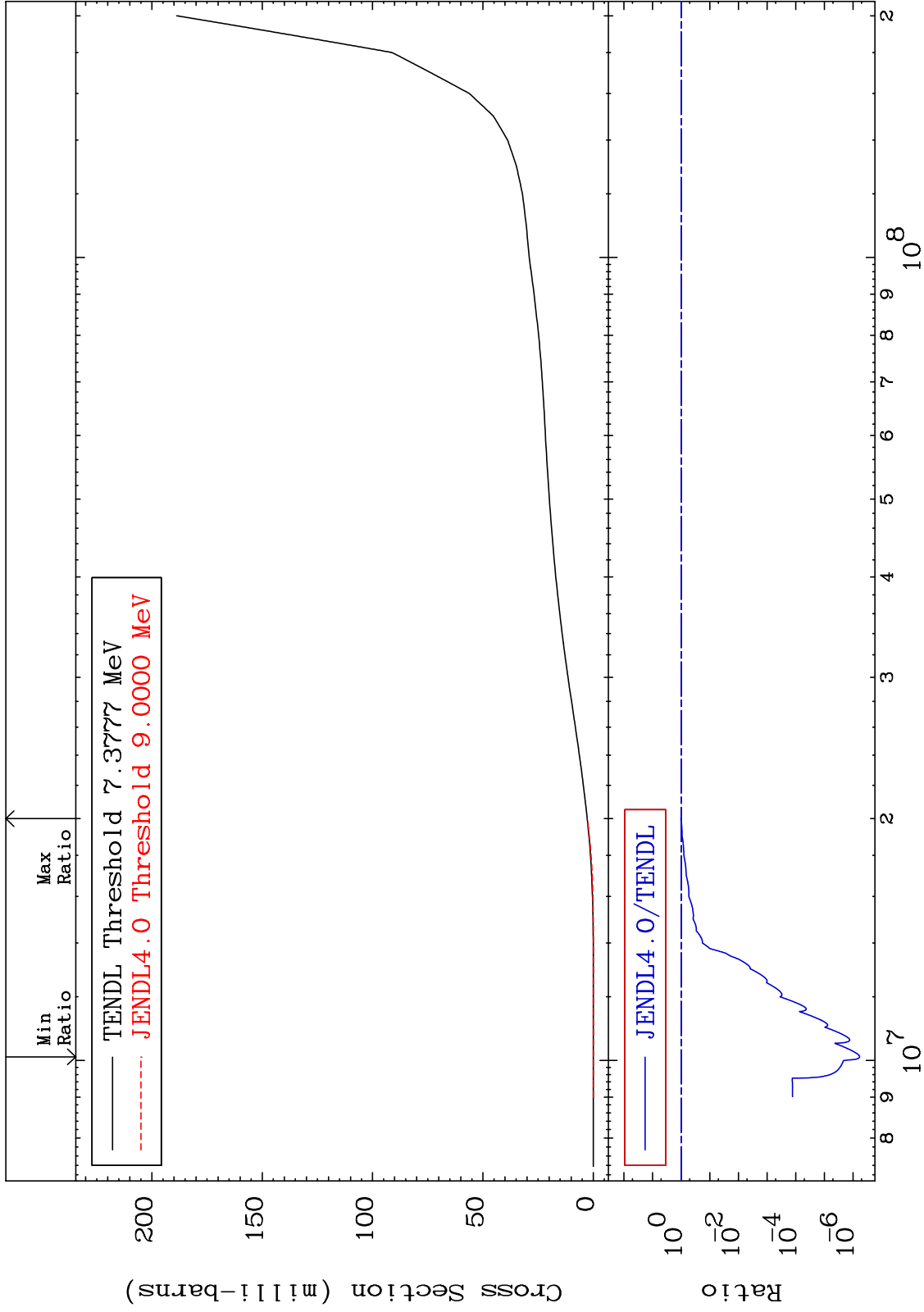
Incident Energy (eV)

51-Sb-125

MAT 5137

Tritium Production
Cross Section

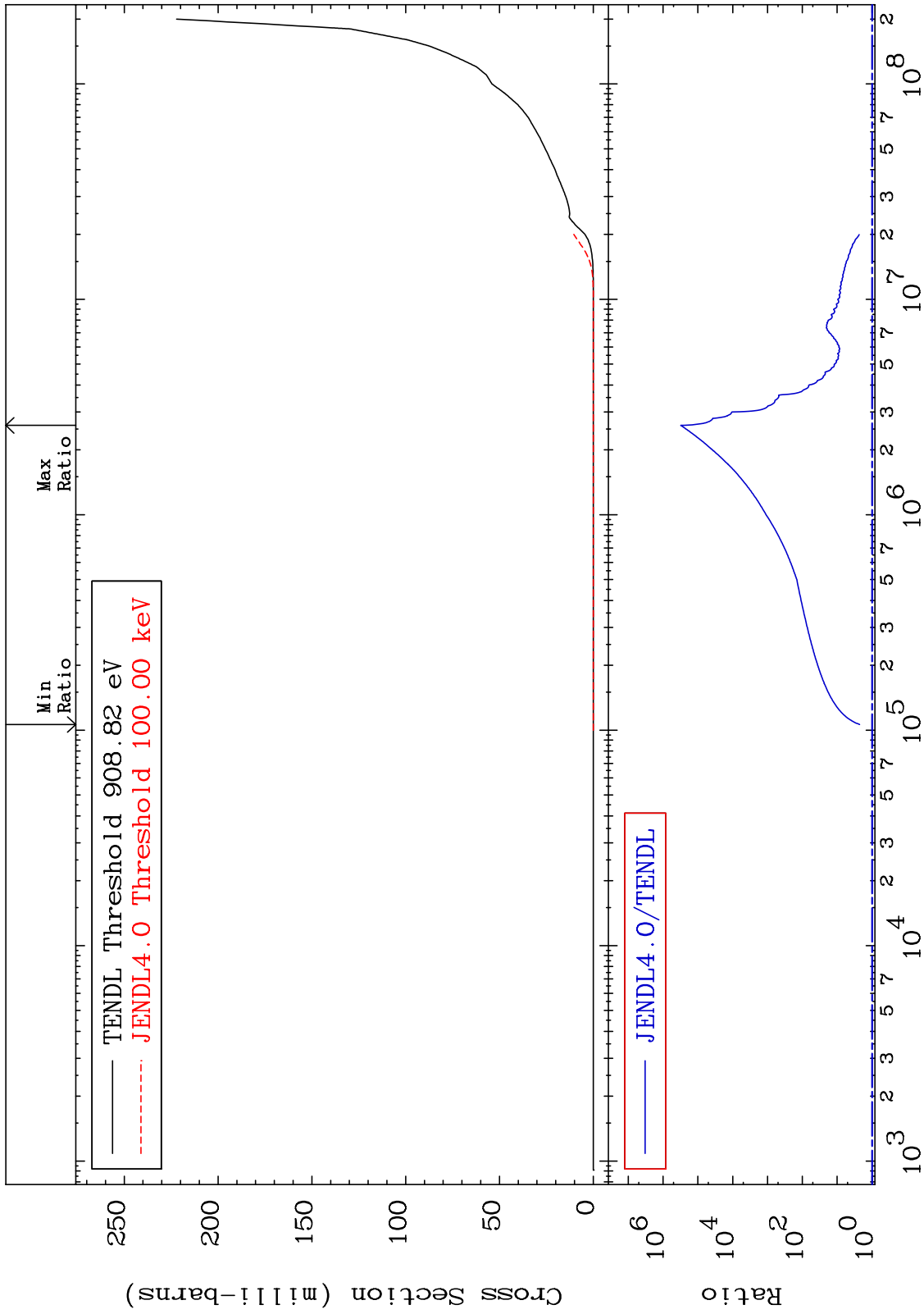
51-Sb-125
-100.0 To 2.464 %



MAT 5137

He-4 Production
Cross Section

51-Sb-125
126.2 To 9999. %

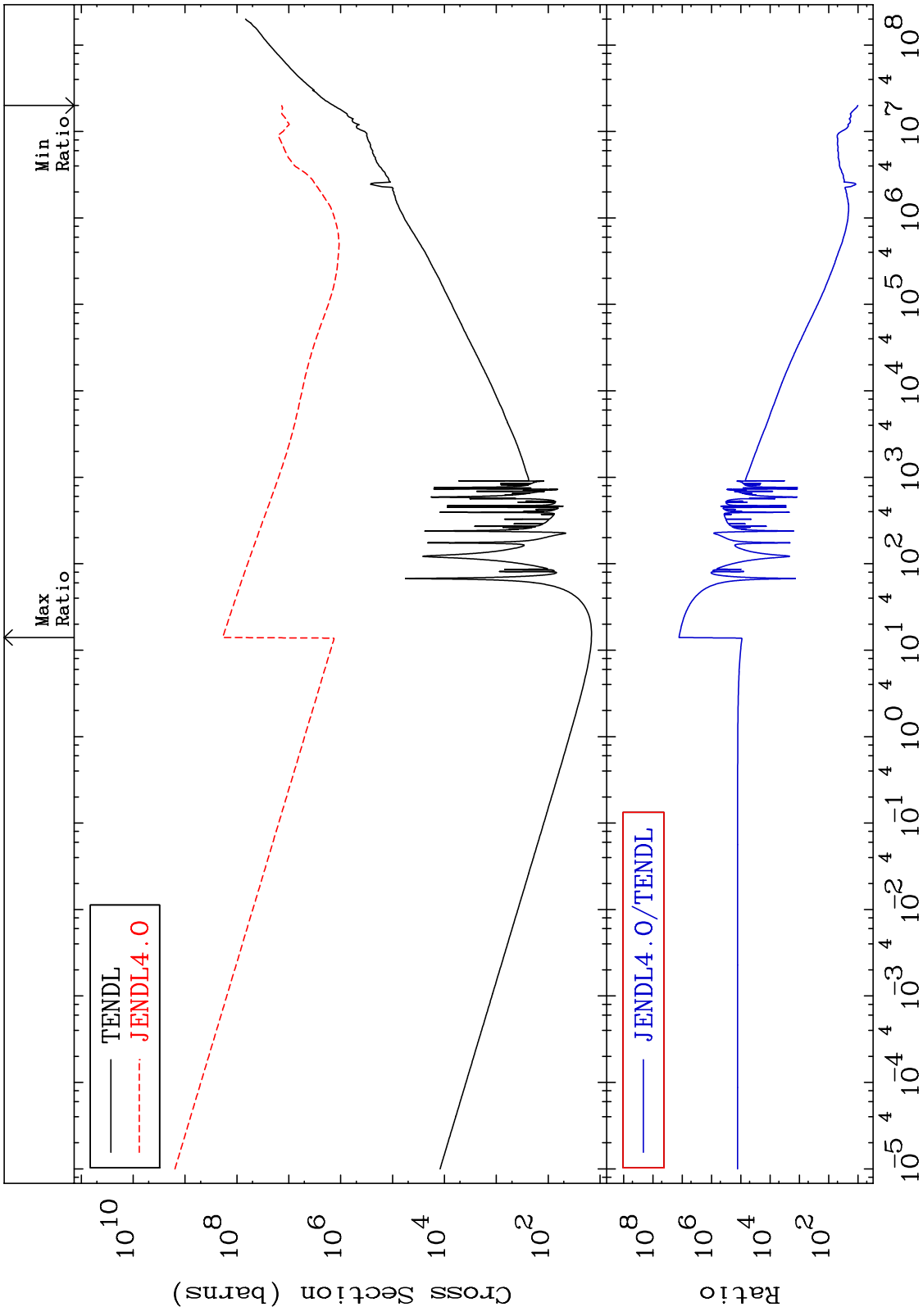


47

Incident Energy (eV)

51-Sb-125

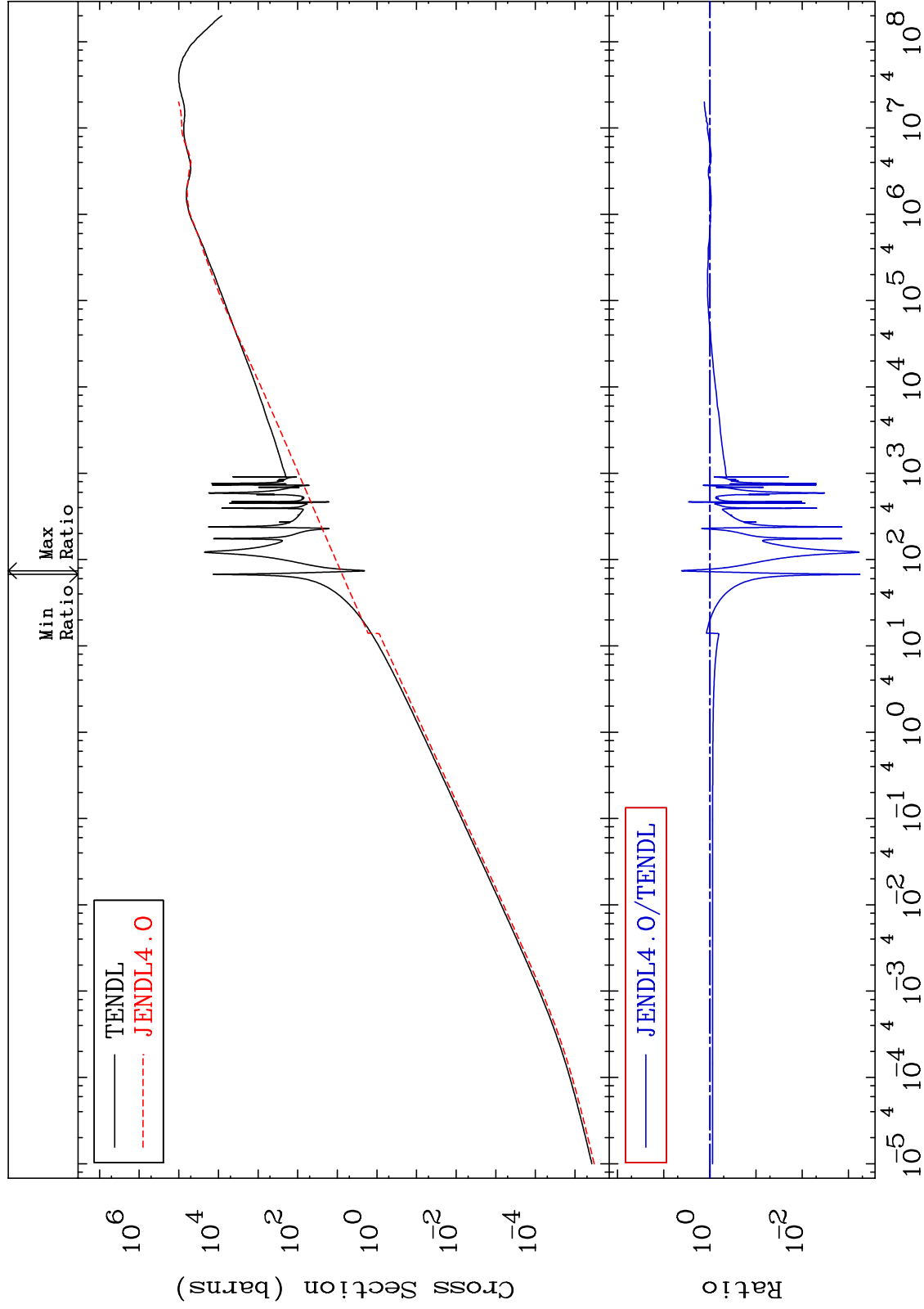
MAT 5137 Kerma total (eV-barns) 51-Sb-125
 Cross Section 908.6 To 9999. %



MAT 5137

Kerma elastic
Cross Section

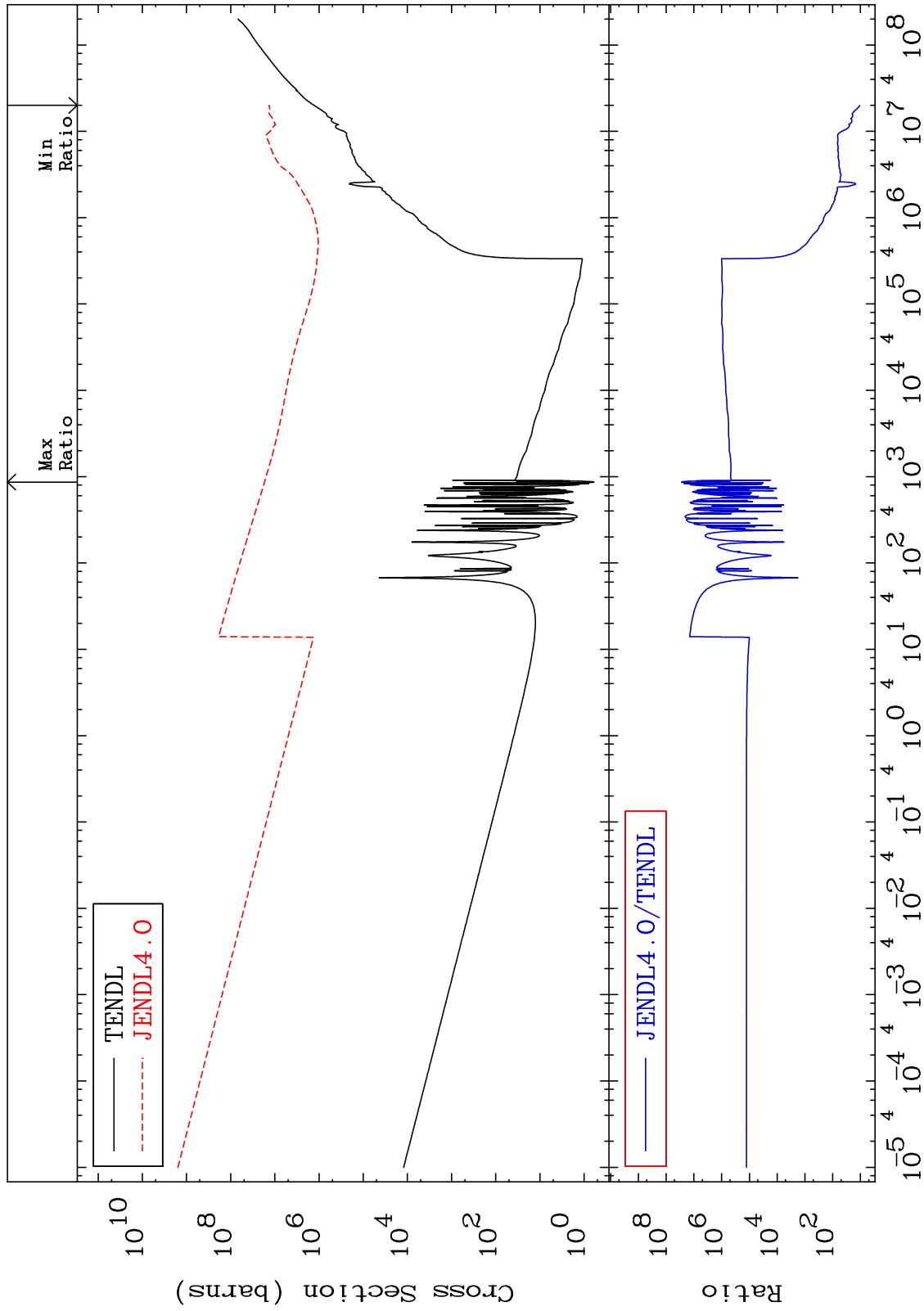
51-Sb-125
-99.94 To 312.7 %



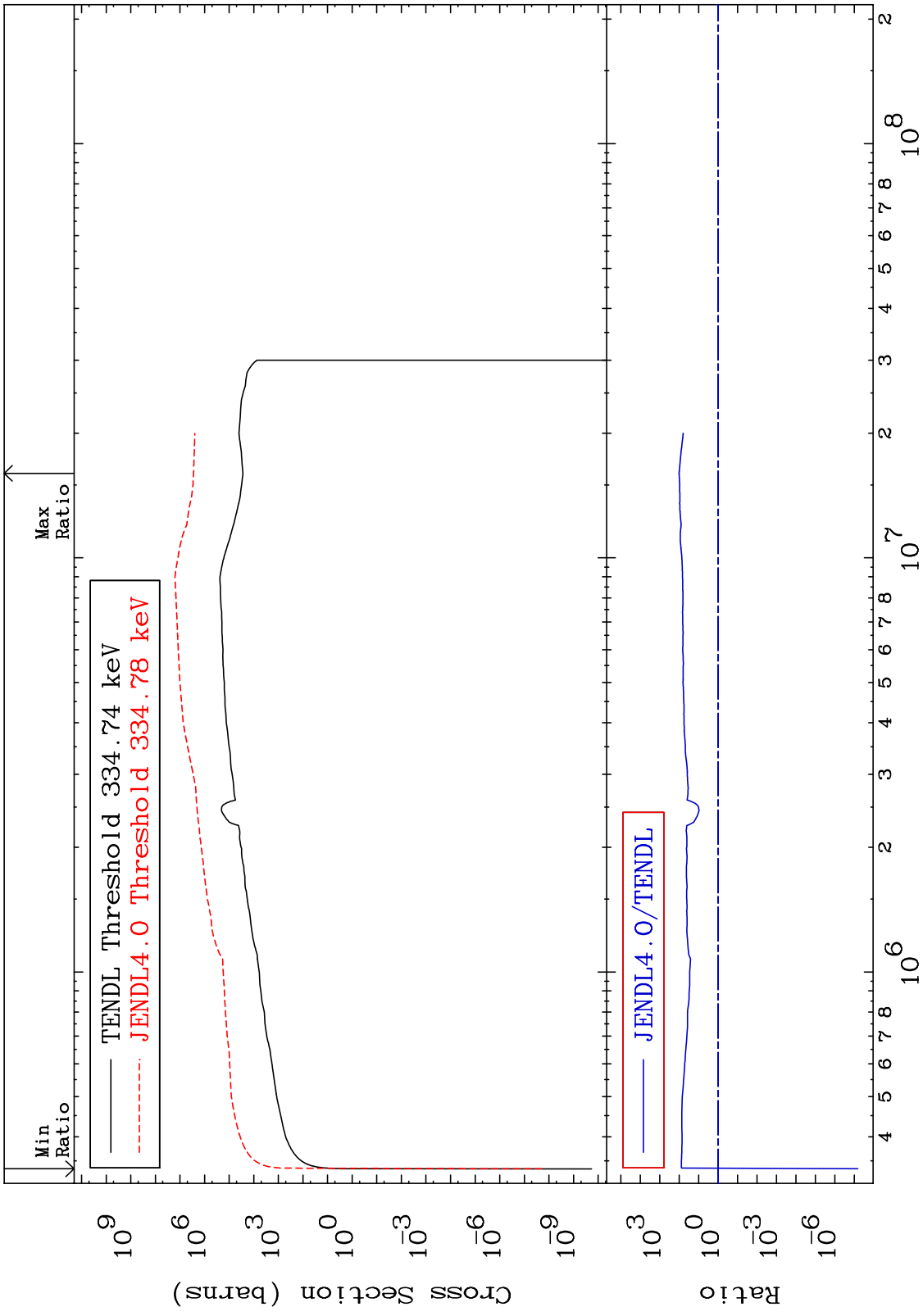
MAT 5137

Kerma non-elastic (all but mt2)
Cross Section

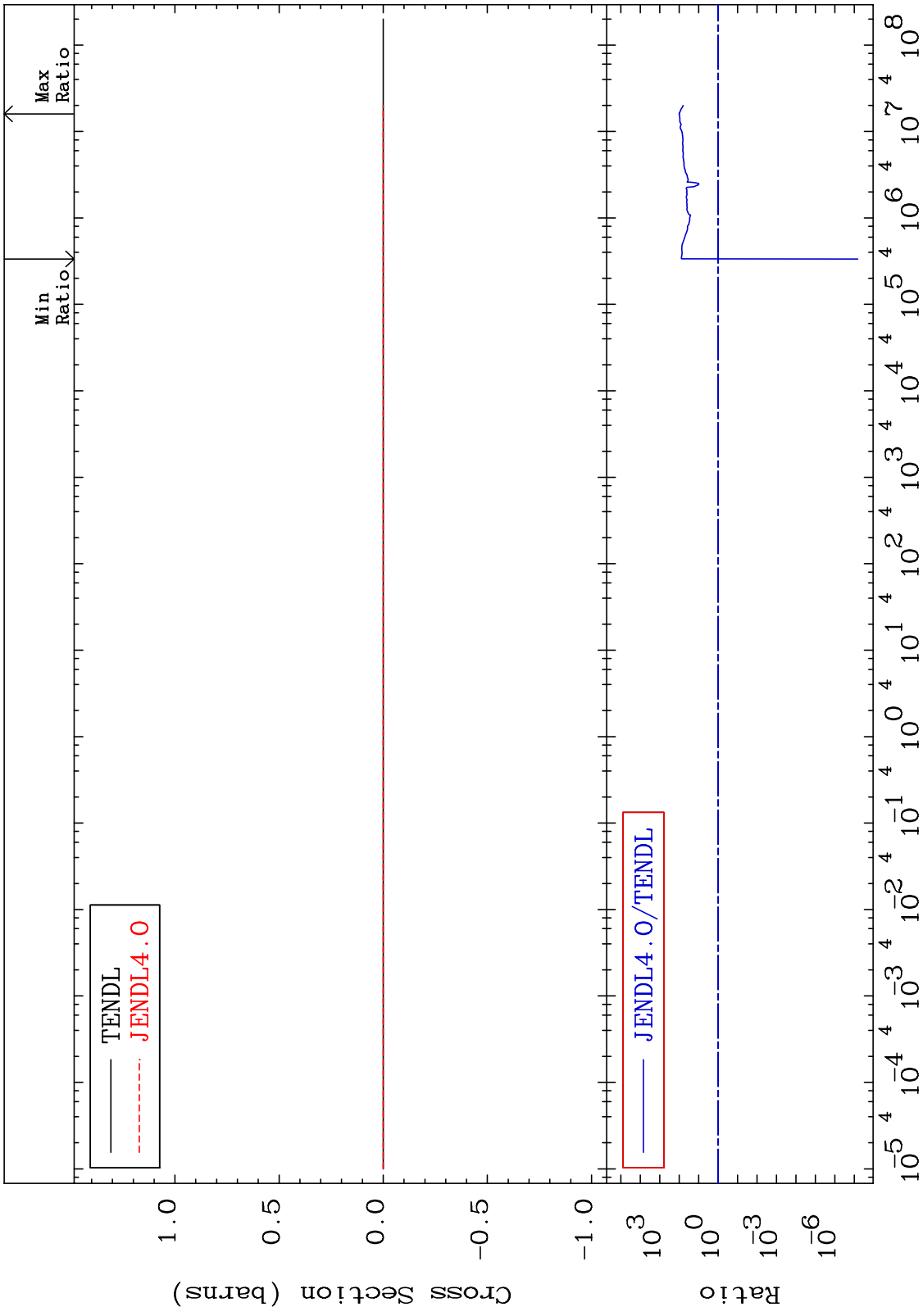
51-Sb-125
961.0 To 9999. %



MAT 5137 Kerma inelastic (mt51-91) 51-Sb-125
 -100.0 To 9999. %



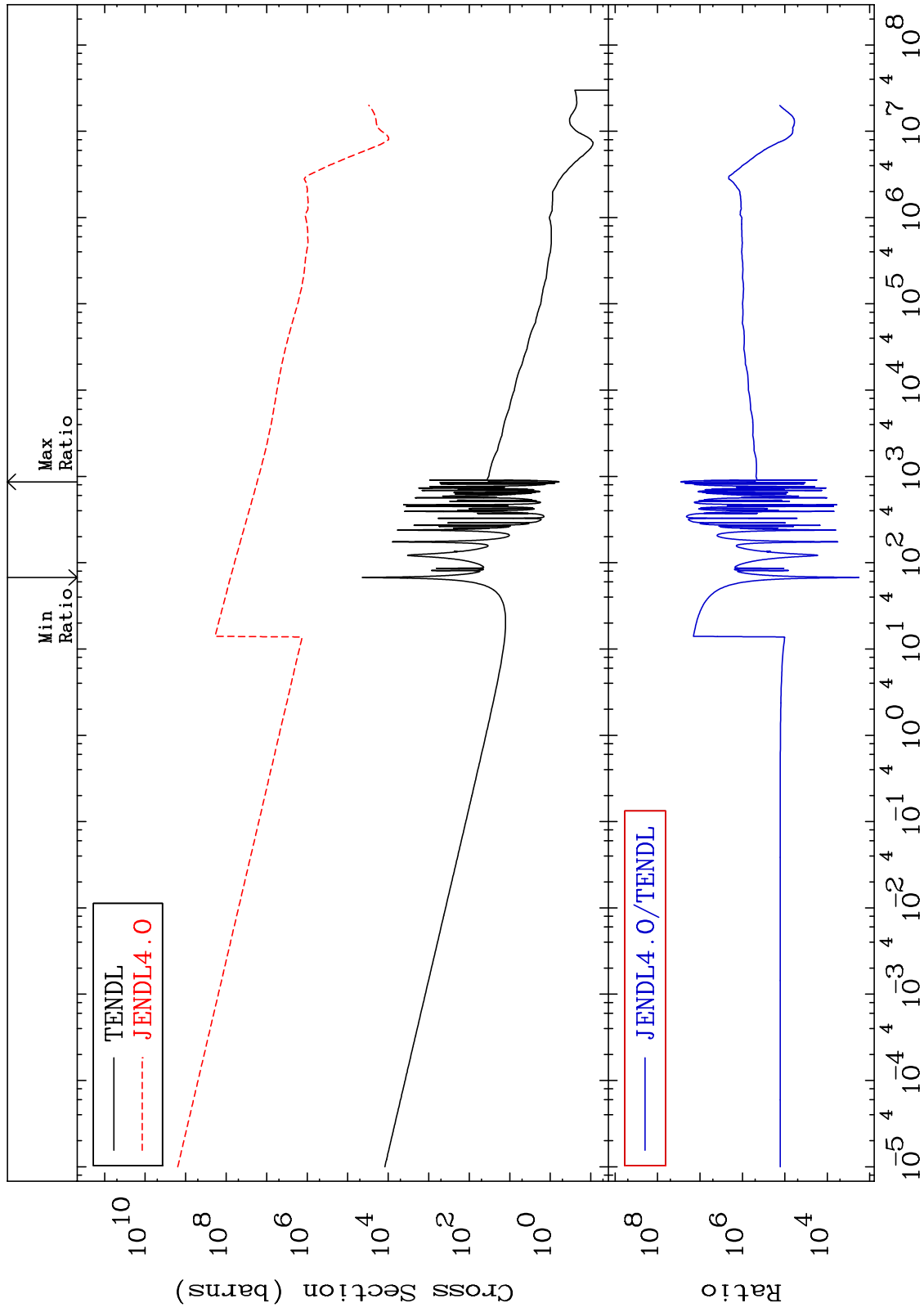
MAT 5137 Kerma fission (mt18 or mt19-20-21-38) 51-Sb-125
 Cross Section -100.0 To 9999. %



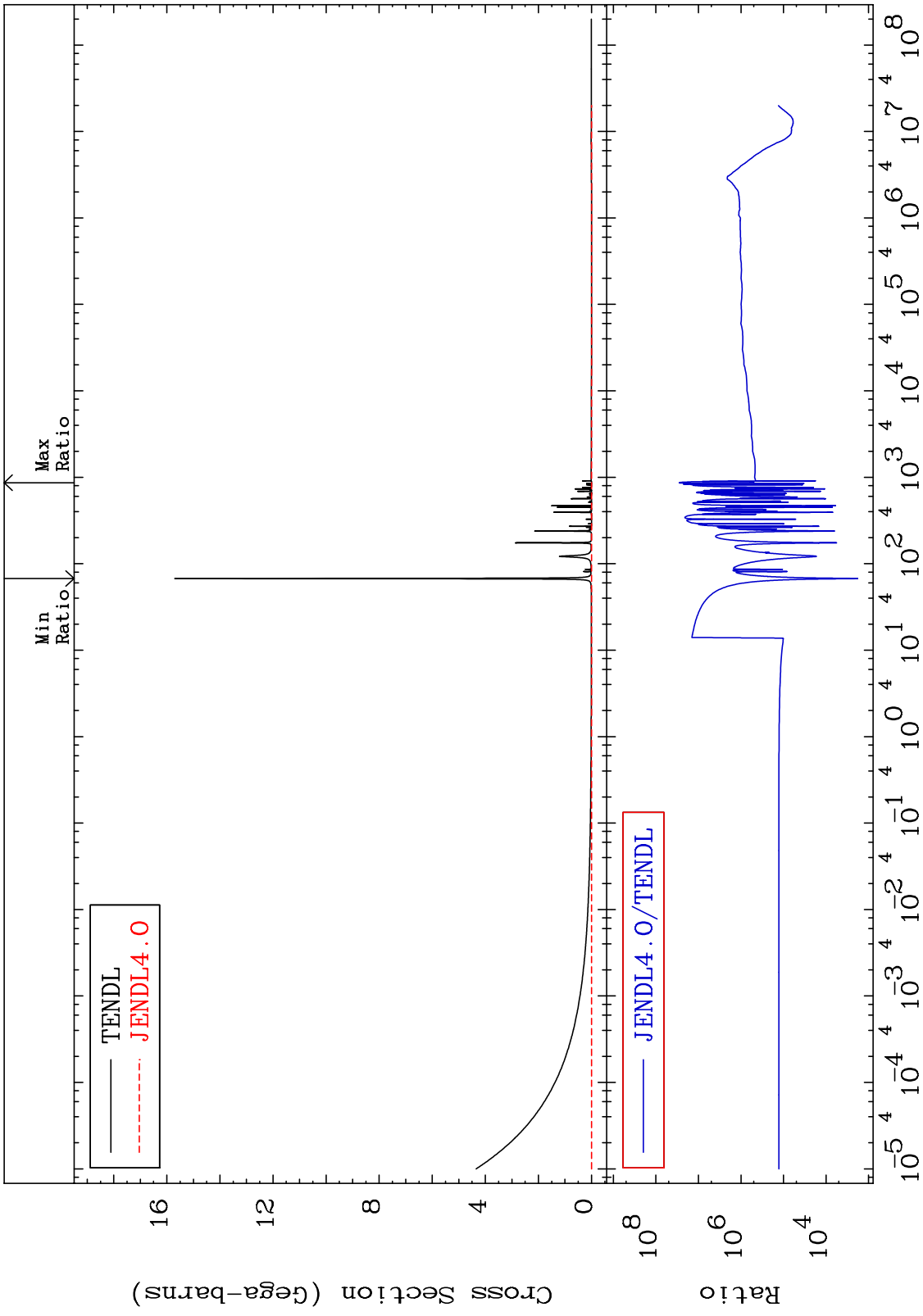
MAT 5137

Kerma capture (mt102)
Cross Section

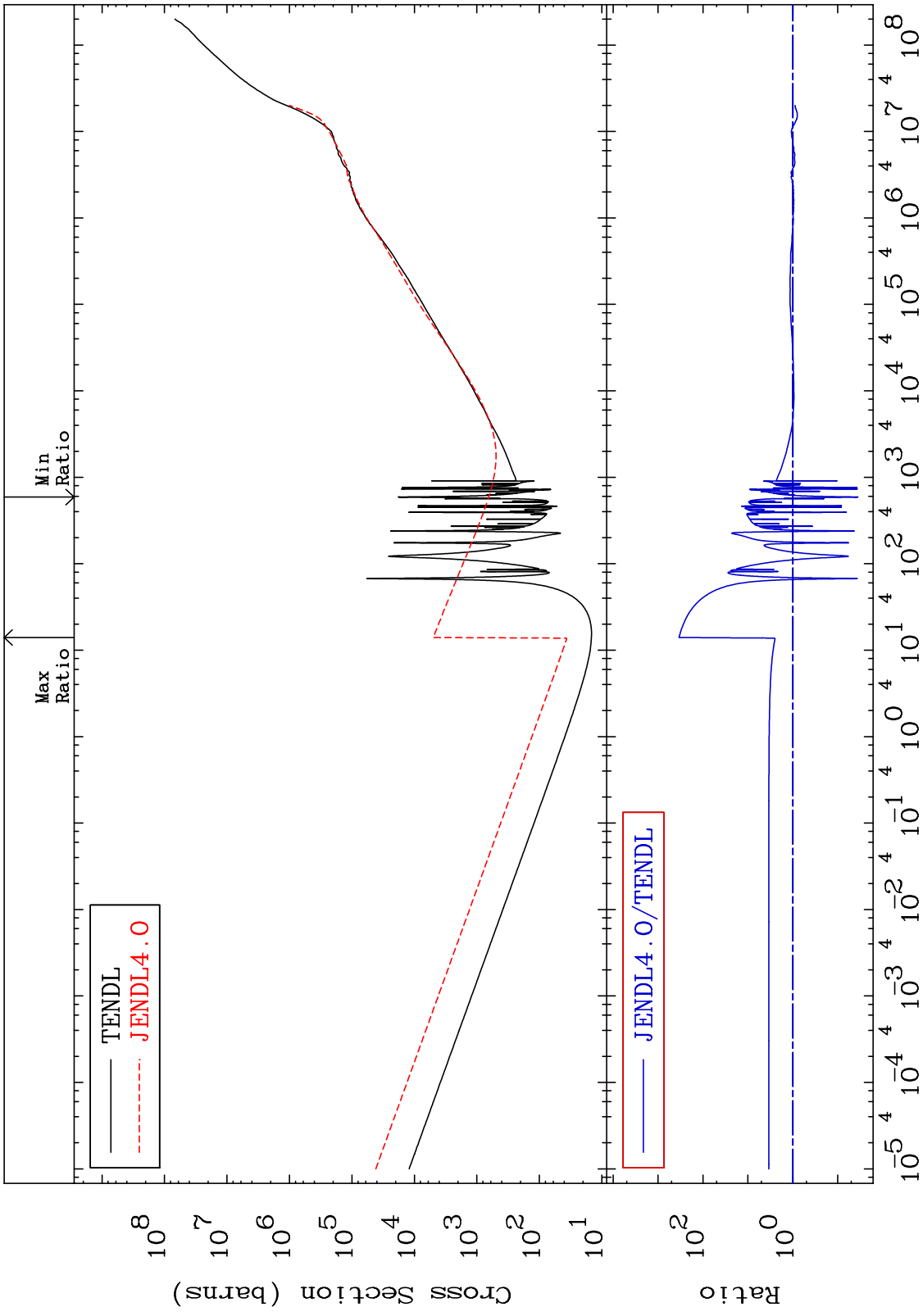
51-Sb-125
9999. To 9999. %



MAT 5137 51-Sb-125 9999. To 9999. %



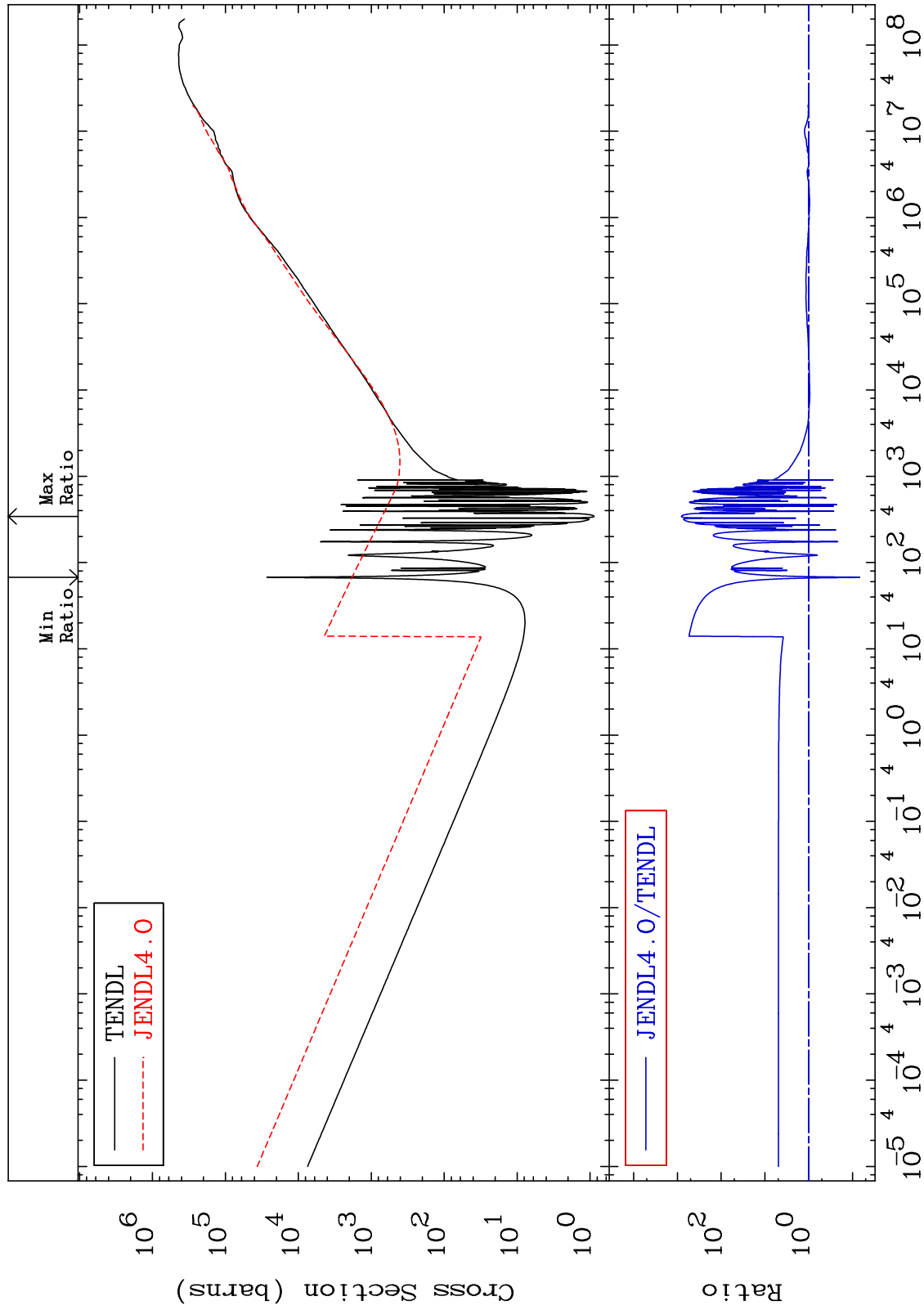
MAT 5137 Total kinematic kerma (high limit) 51-Sb-125 -96.44 To 9999. %
 Cross Section



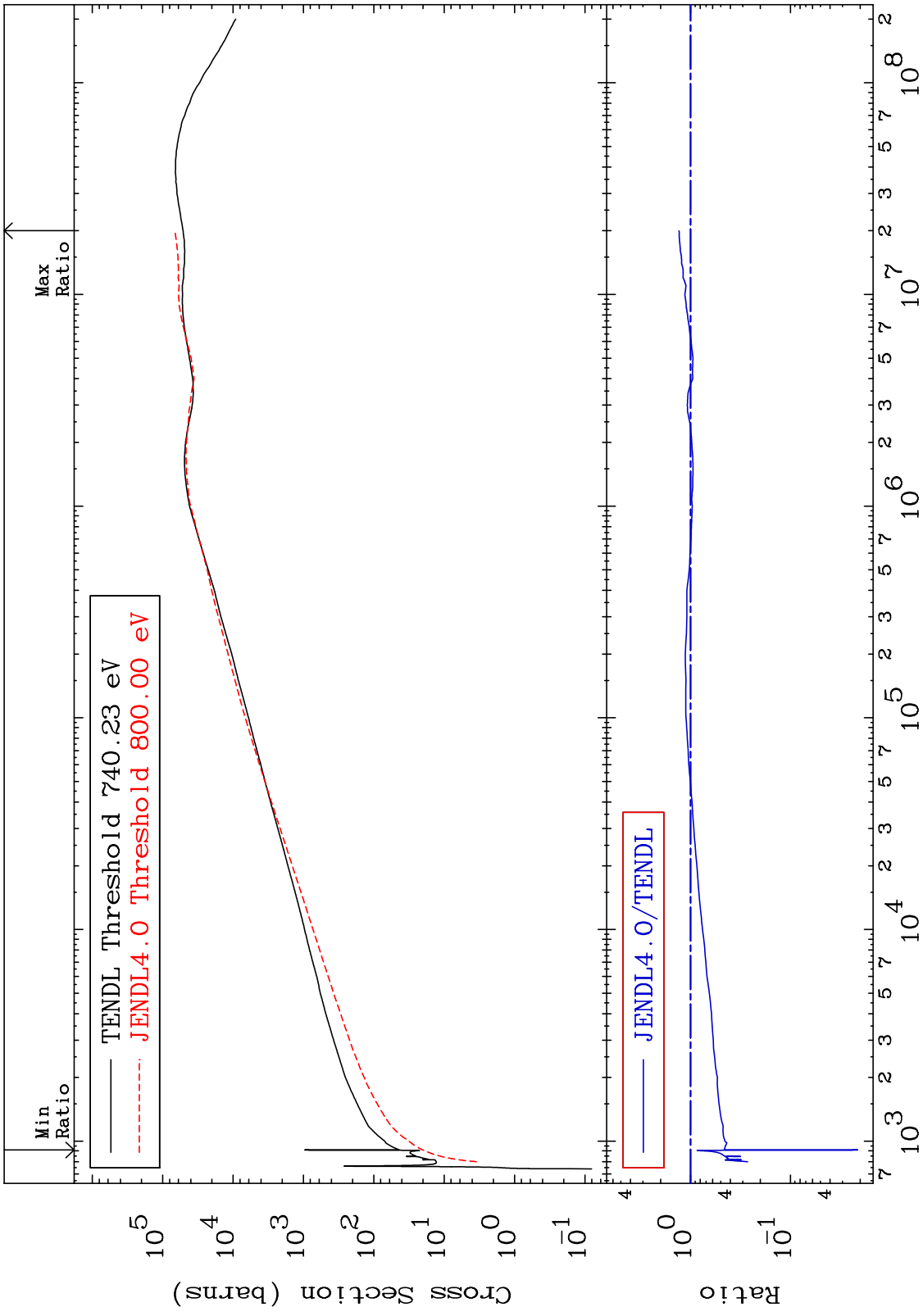
MAT 5137

Dpa total (eV-barns)
Cross Section

51-Sb-125
-93.20 To 9999. %

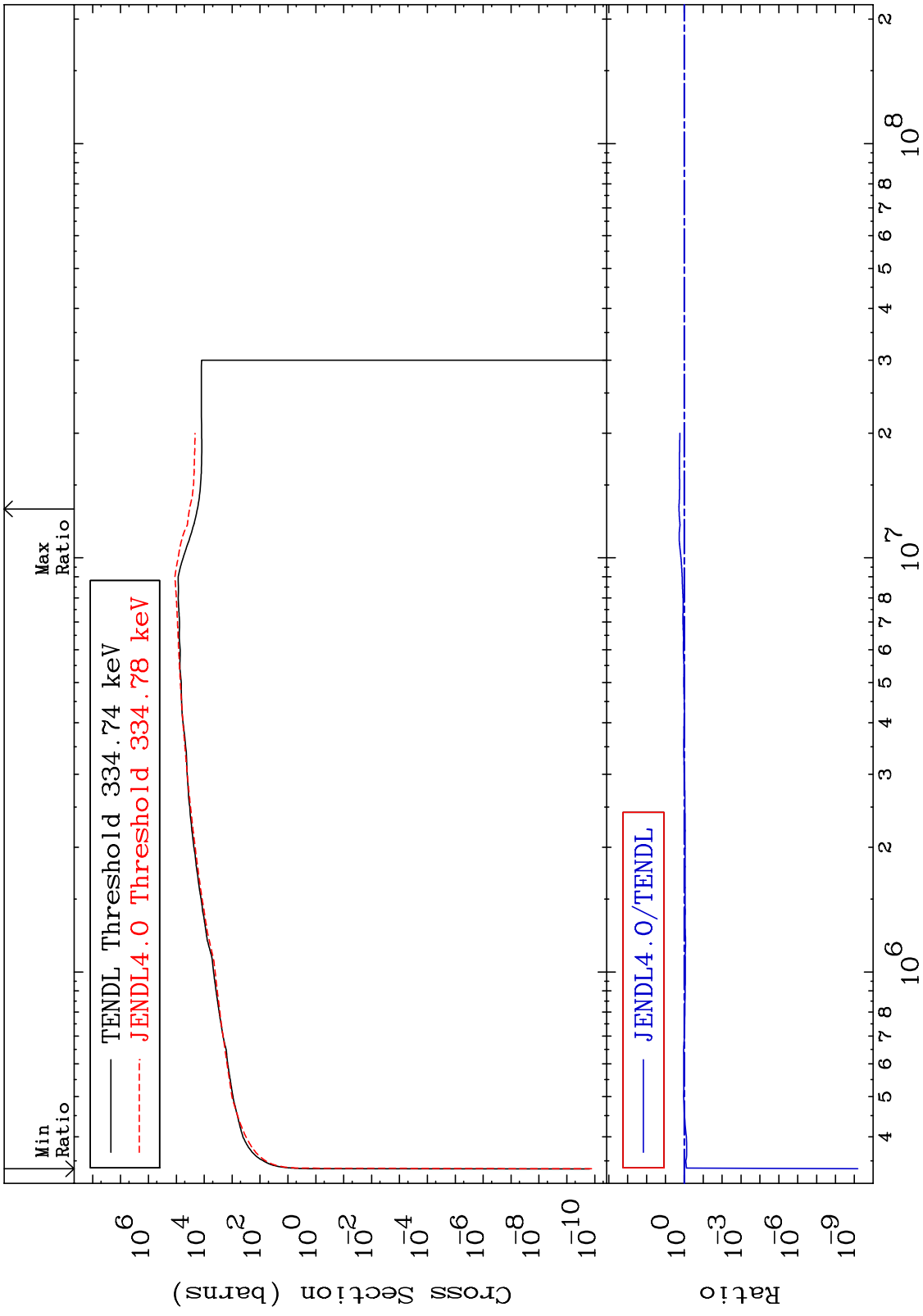


MAT 5137 51-Sb-125
Dpa elastic (mt2)
Cross Section -97.89 To 30.49 %

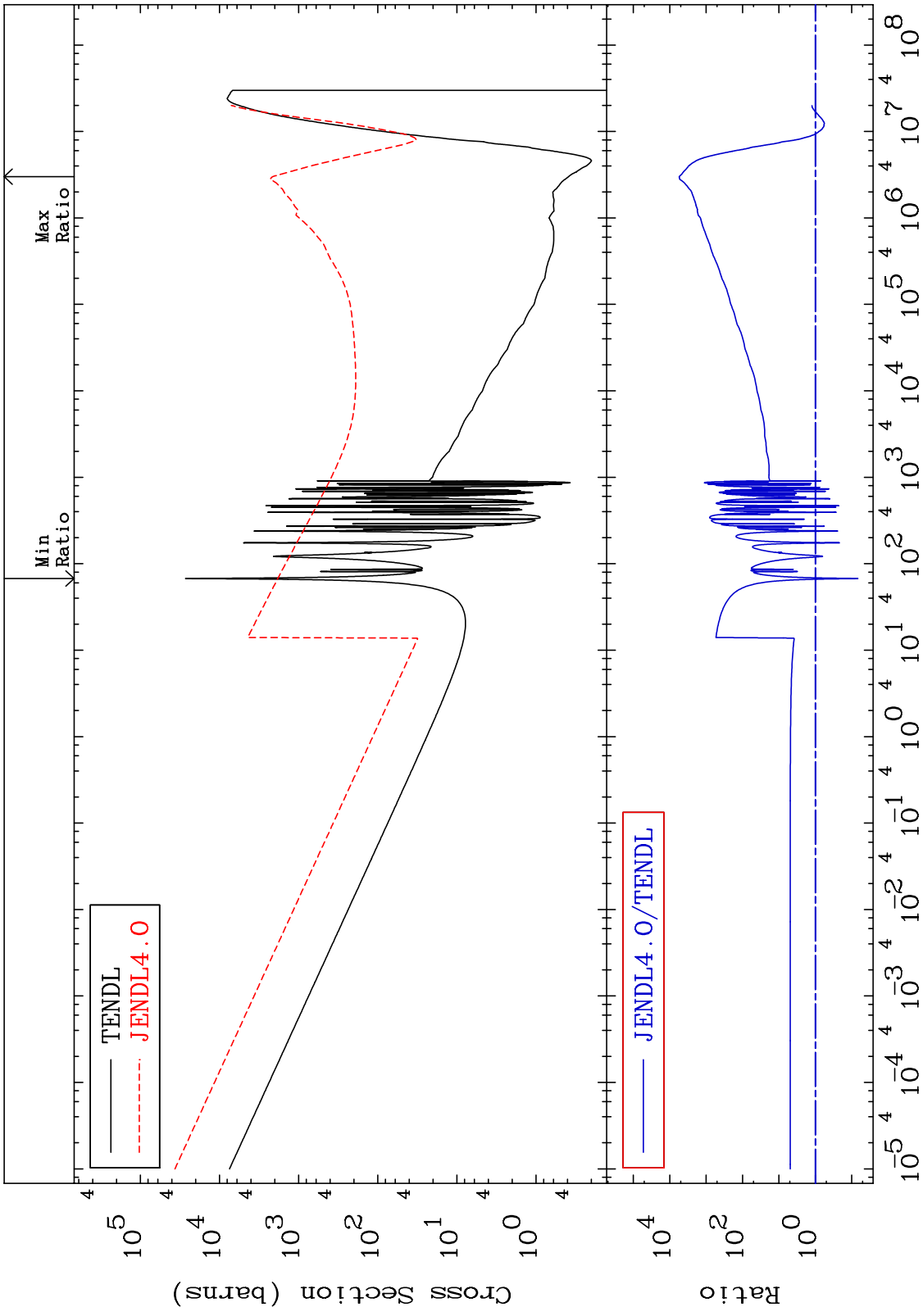


57 51-Sb-125

MAT 5137 Dpa inelastic (mt51-91) 51-Sb-125
 Cross Section -100.0 To 90.42 %



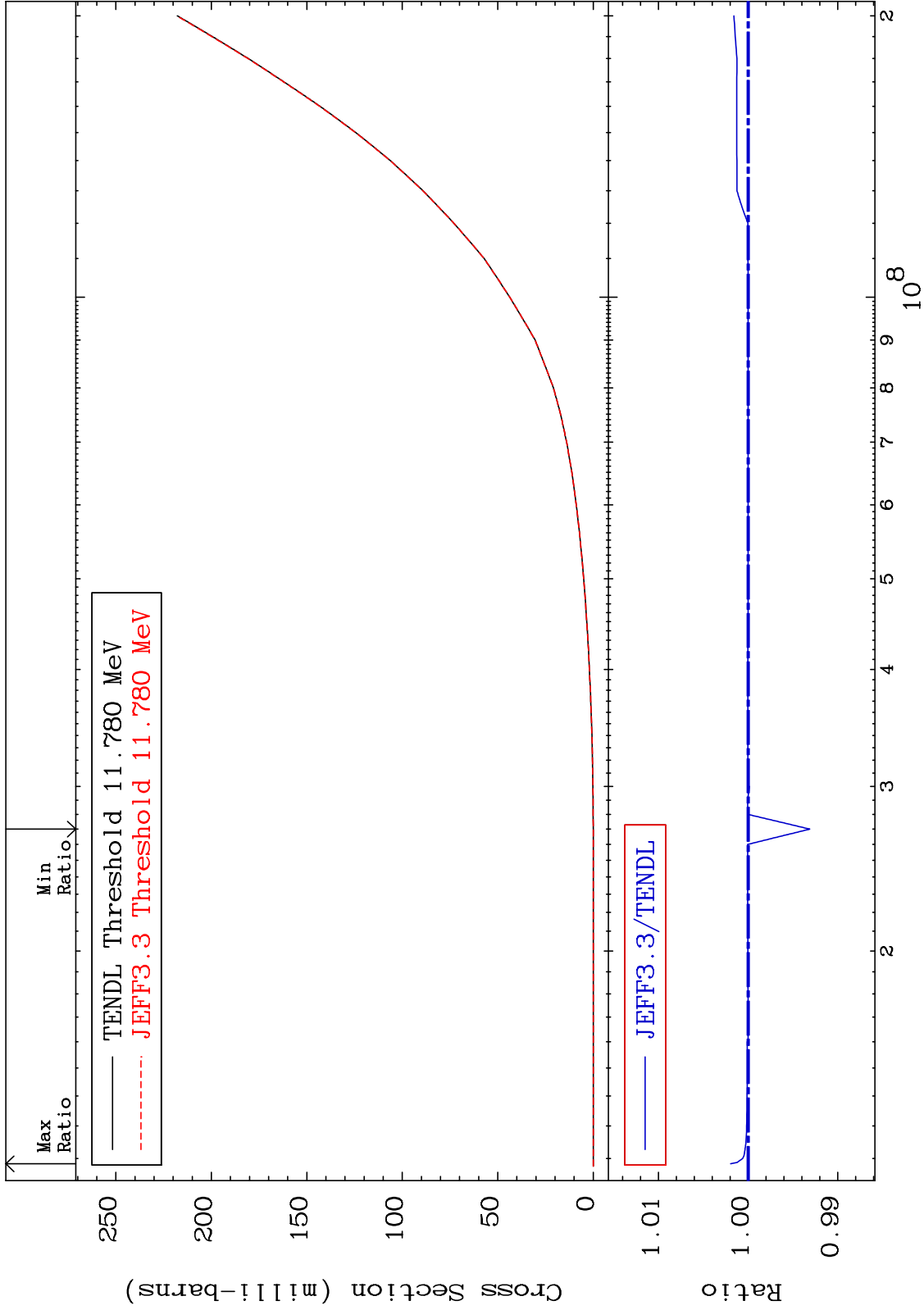
MAT 5137 Dpa disappearance (mt102 -120) 51-Sb-125
 Cross Section -93.20 To 9999. %



MAT 5137

He-3 Production
Cross Section

51-Sb-125
-0.688 To 0.196 %



60

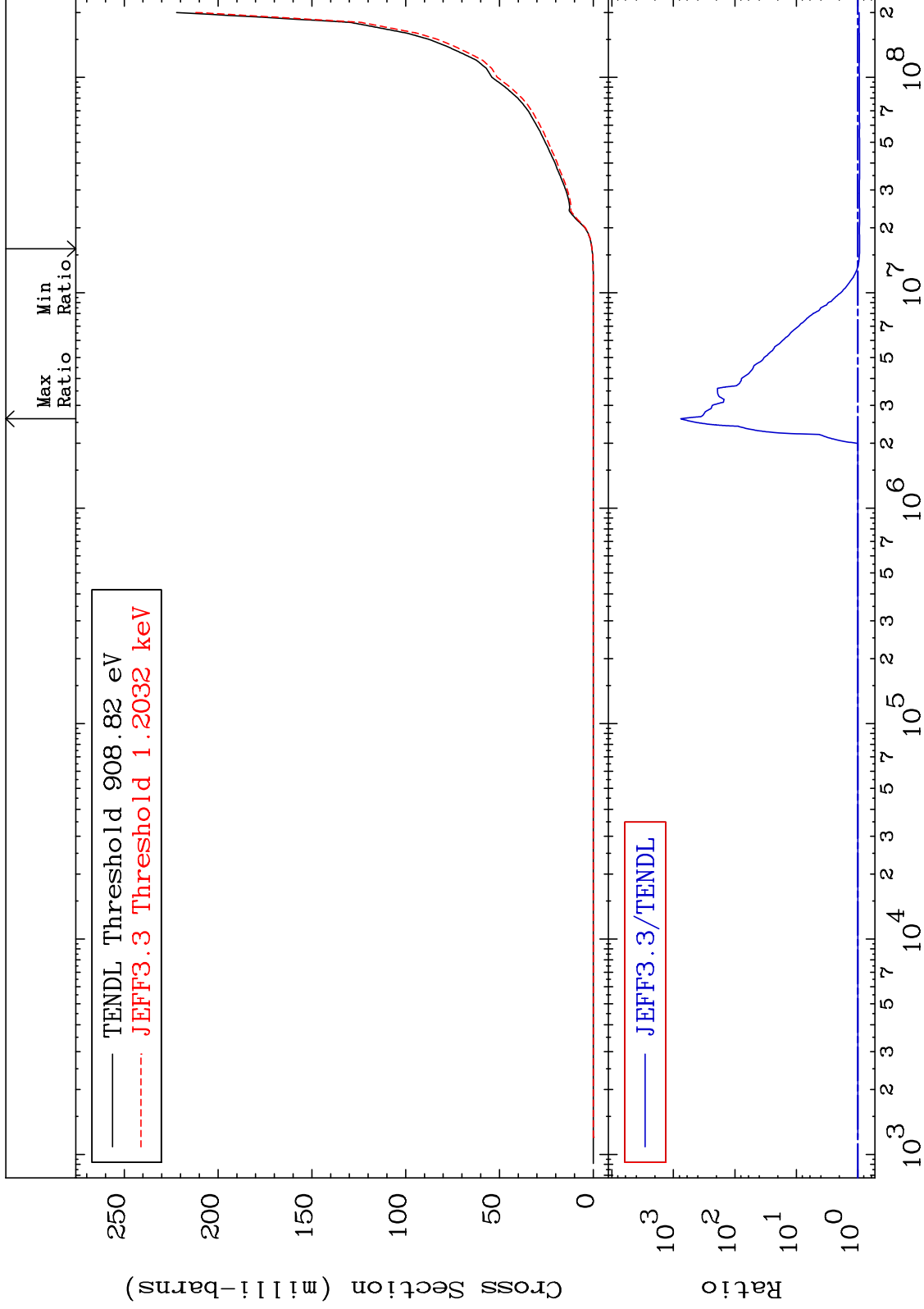
Incident Energy (eV)

51-Sb-125

MAT 5137

He-4 Production
Cross Section

51-Sb-125
-6.479 To 9999. %



61

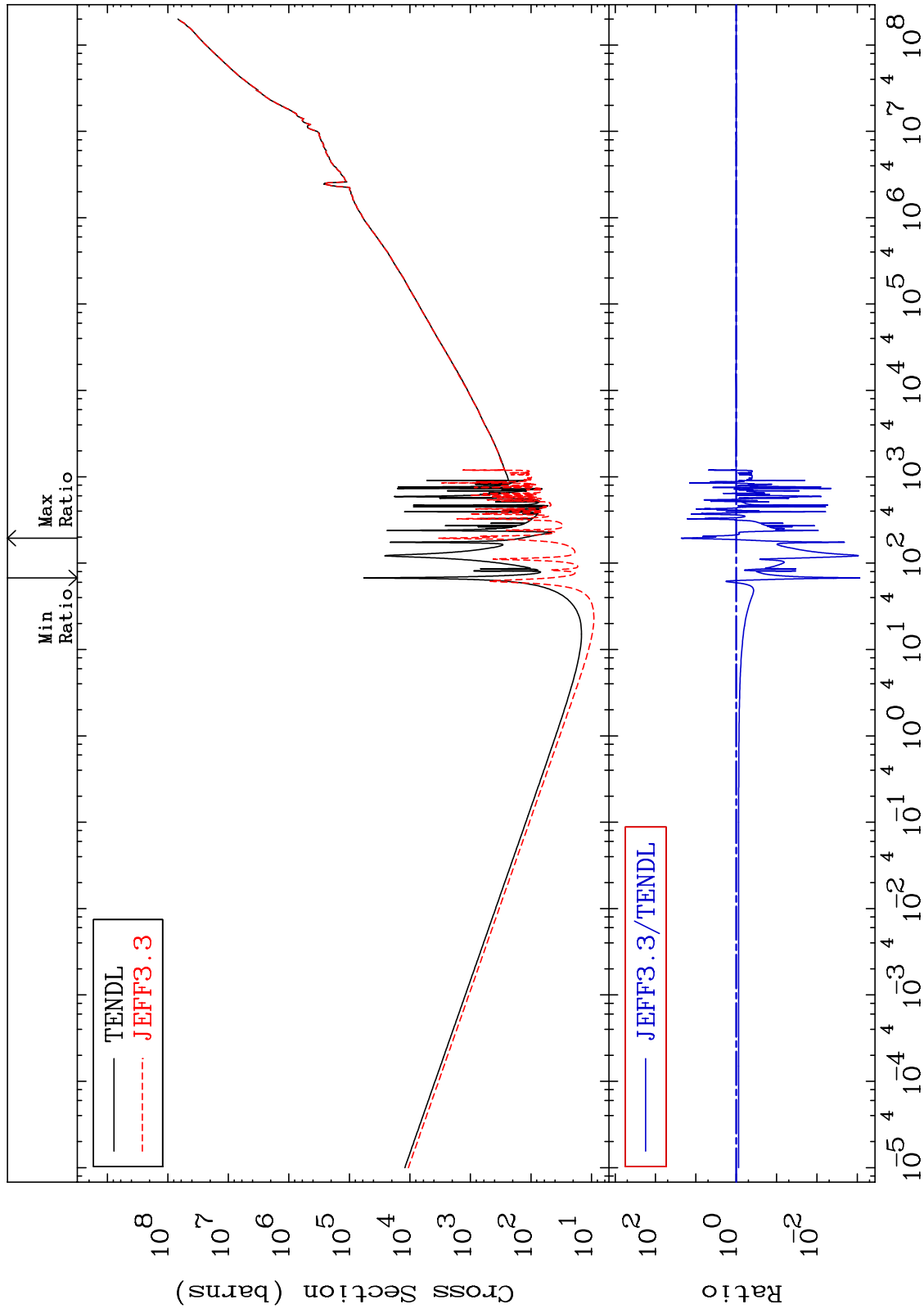
Incident Energy (eV)

51-Sb-125

MAT 5137

Kerma total (eV-barns)
Cross Section

51-Sb-125
-99.91 To 2203. %



62

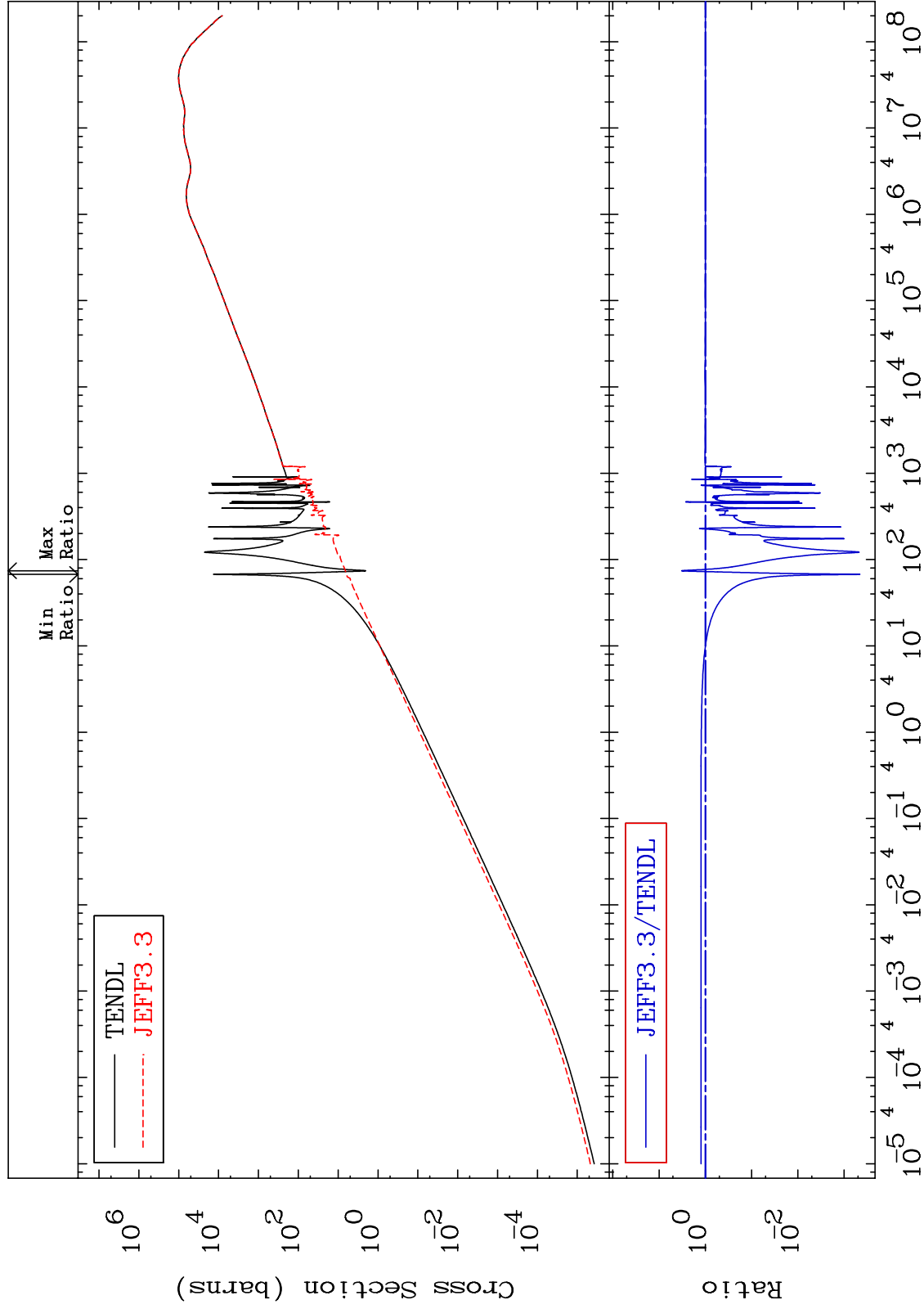
Incident Energy (eV)

51-Sb-125

MAT 5137

Kerma elastic
Cross Section

51-Sb-125
-99.95 To 227.7 %



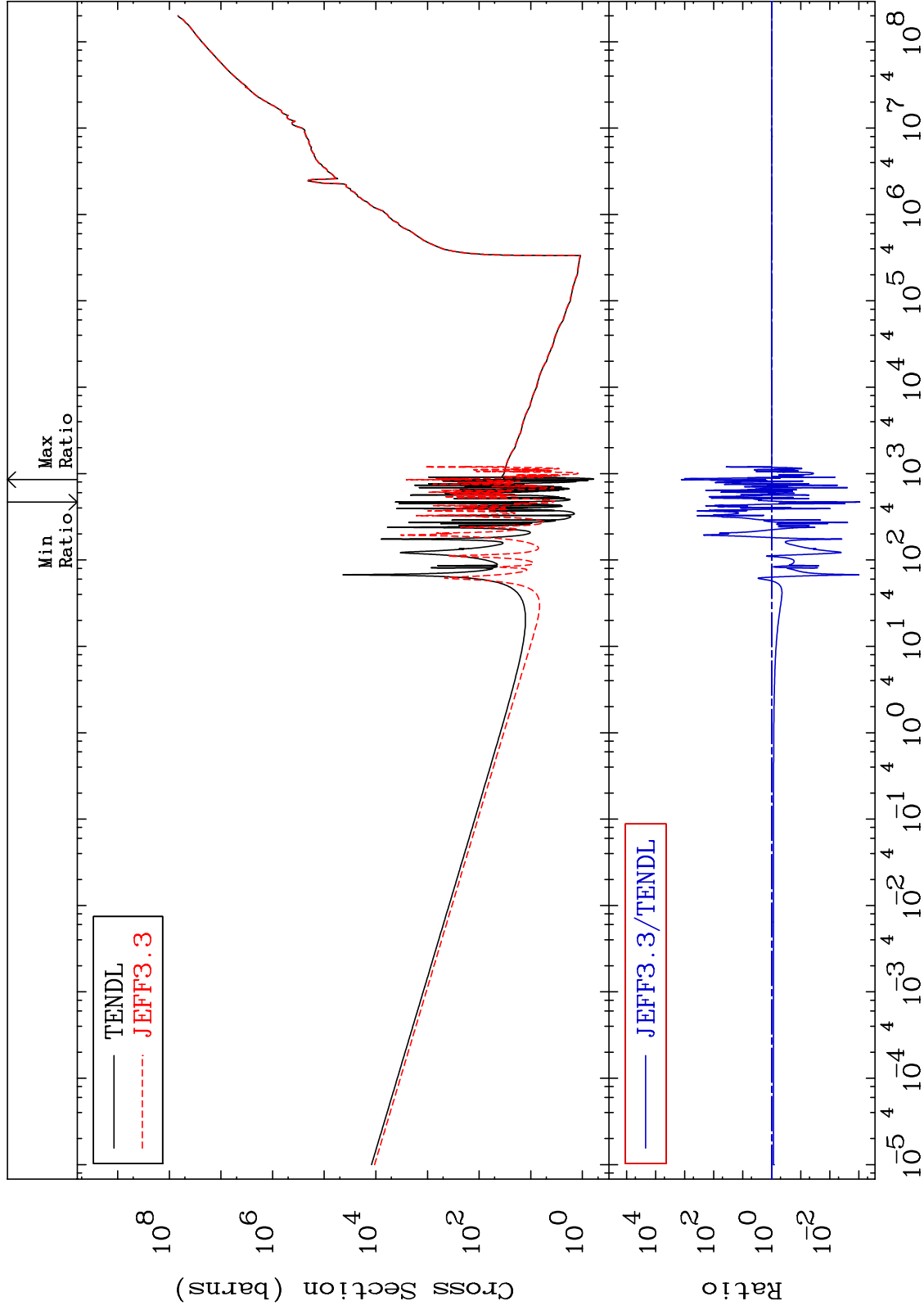
MAT 5137

Kerma non-elastic (all but mt2)

51-Sb-125

-99.91 To 9999. %

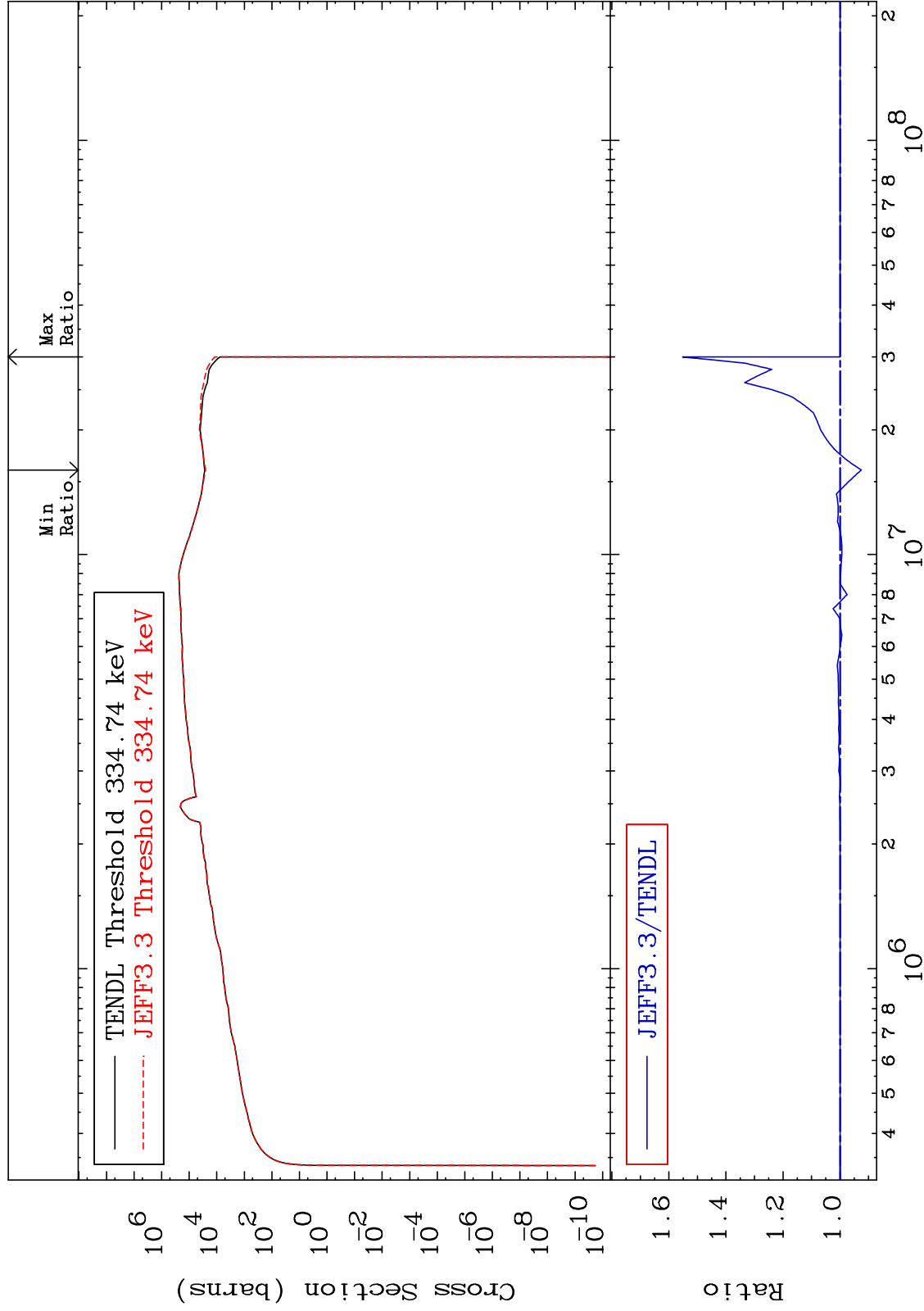
Cross Section



MAT 5137

Kerma inelastic (mt51-91)
Cross Section

51-Sb-125
-7.473 To 55.17 %



65

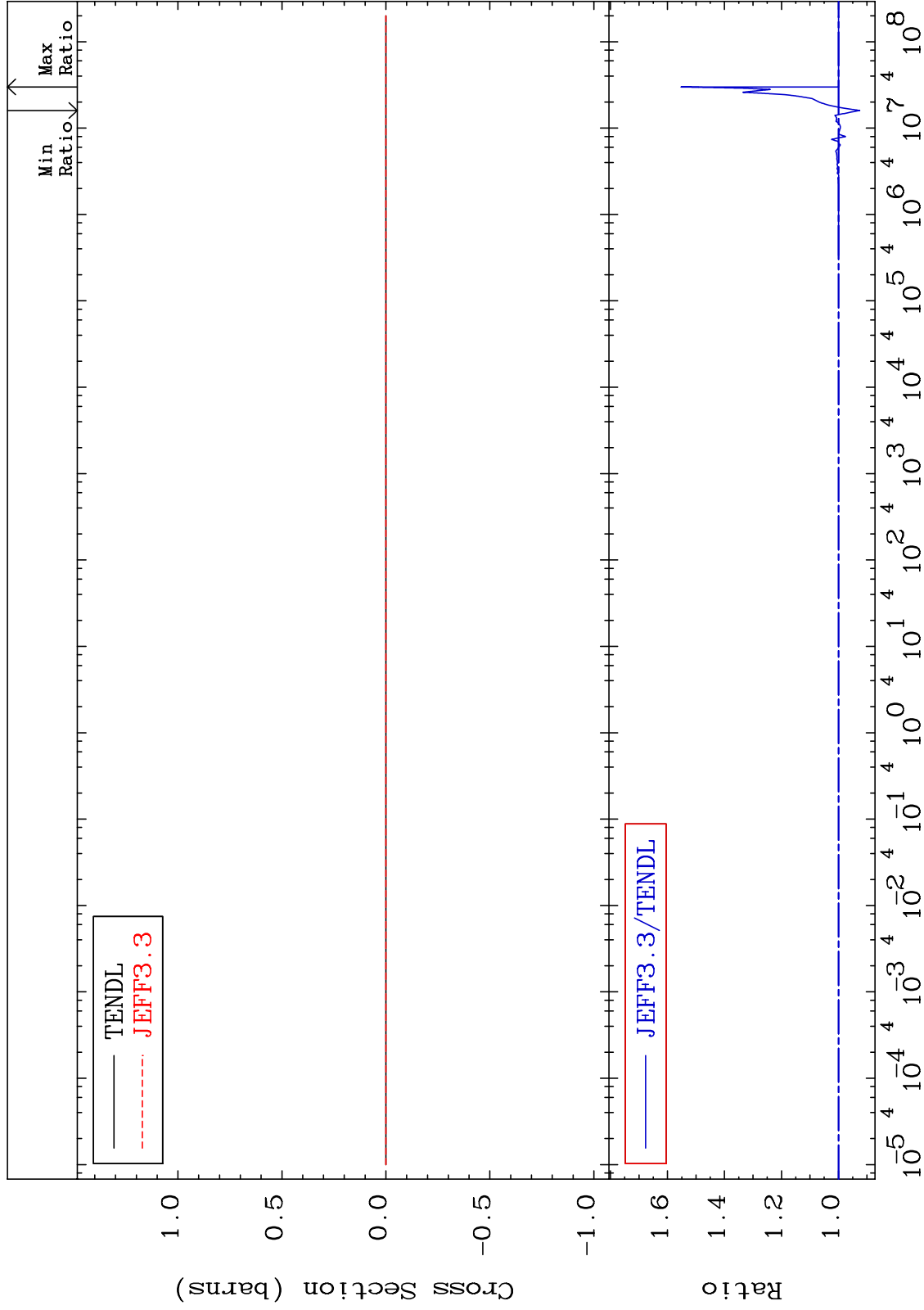
Incident Energy (eV)

51-Sb-125

MAT 5137

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

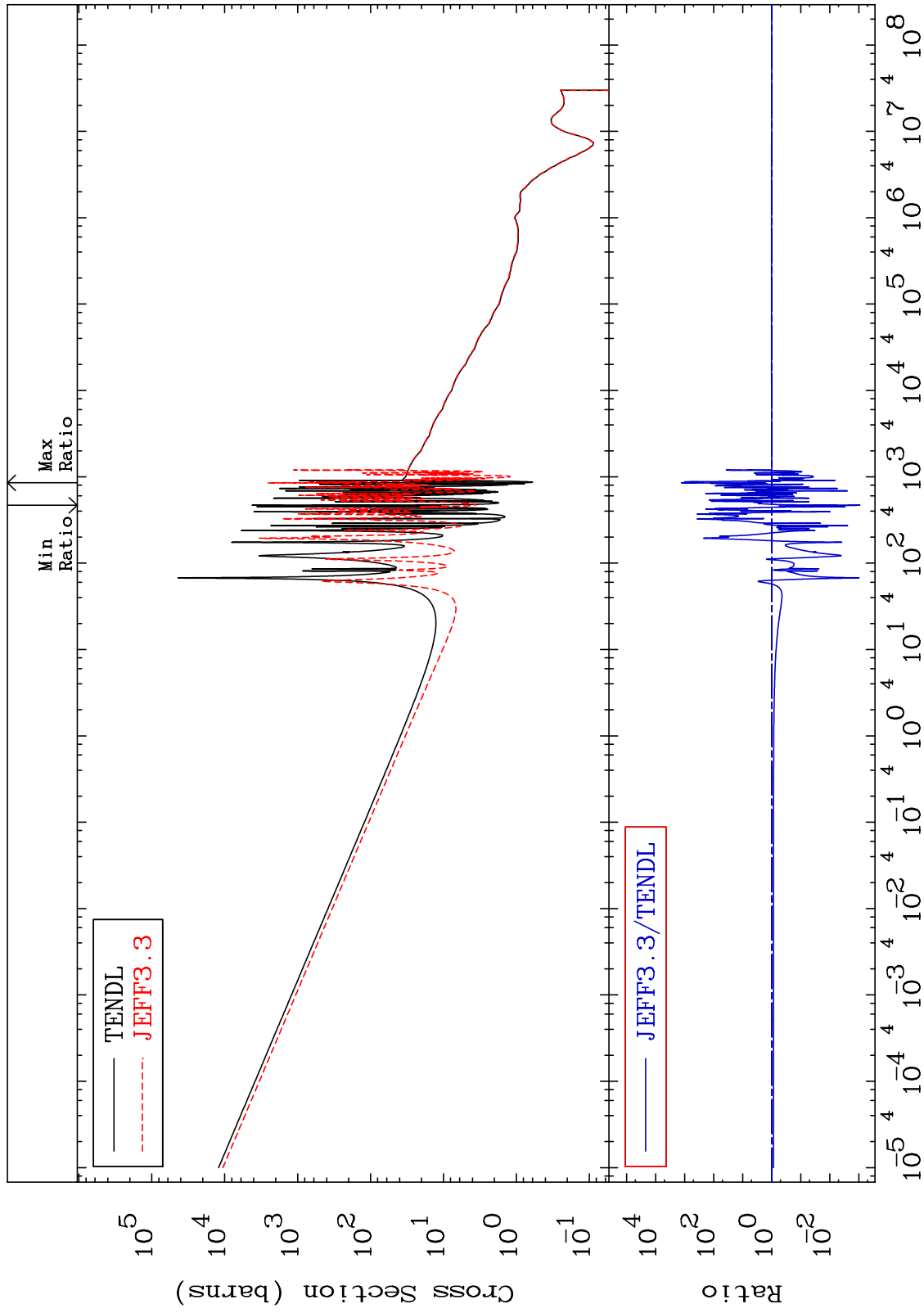
51-Sb-125
-7.473 To 55.17 %



MAT 5137

Kerma capture (mt102)
Cross Section

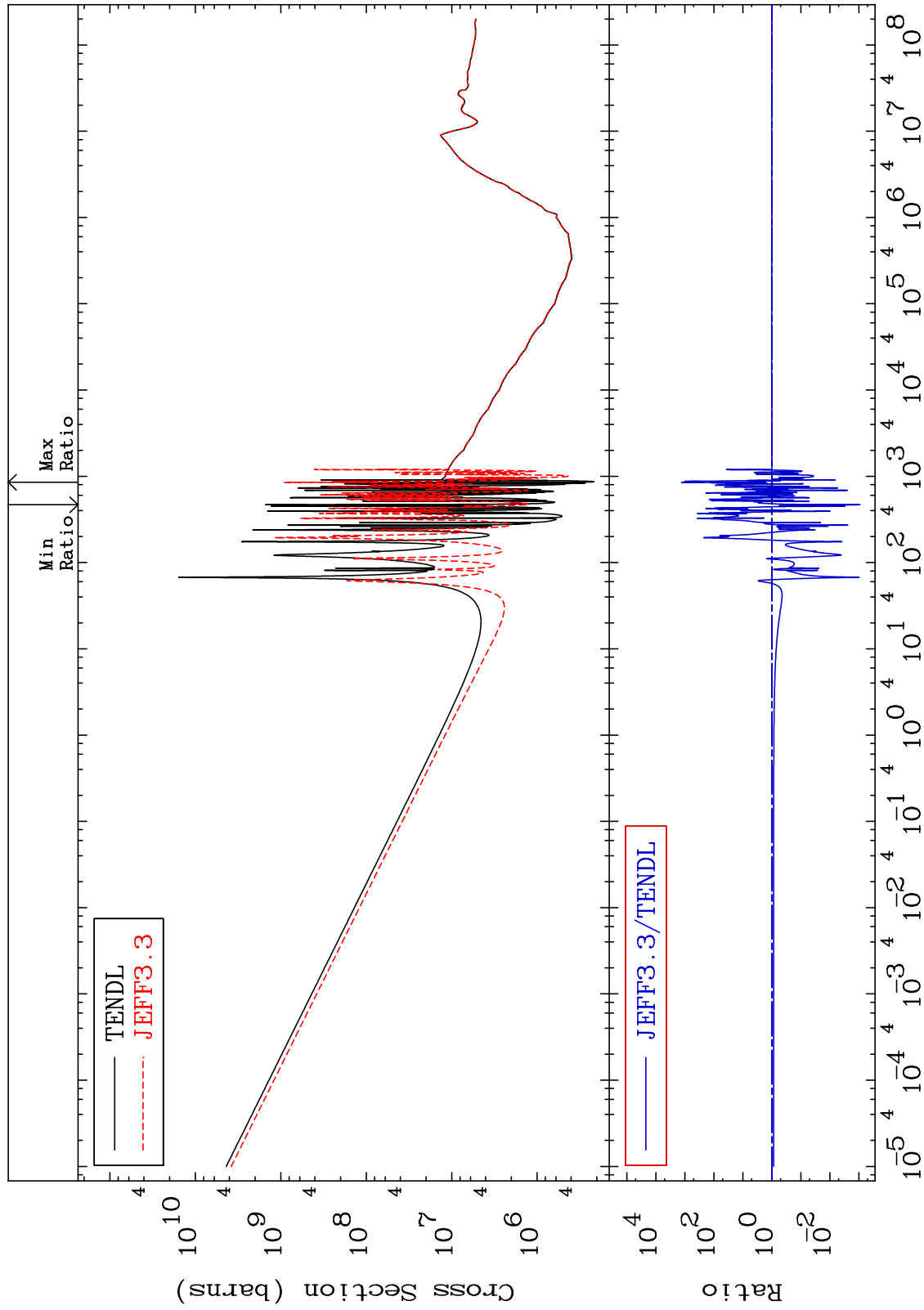
51-Sb-125
-99.91 To 9999. %



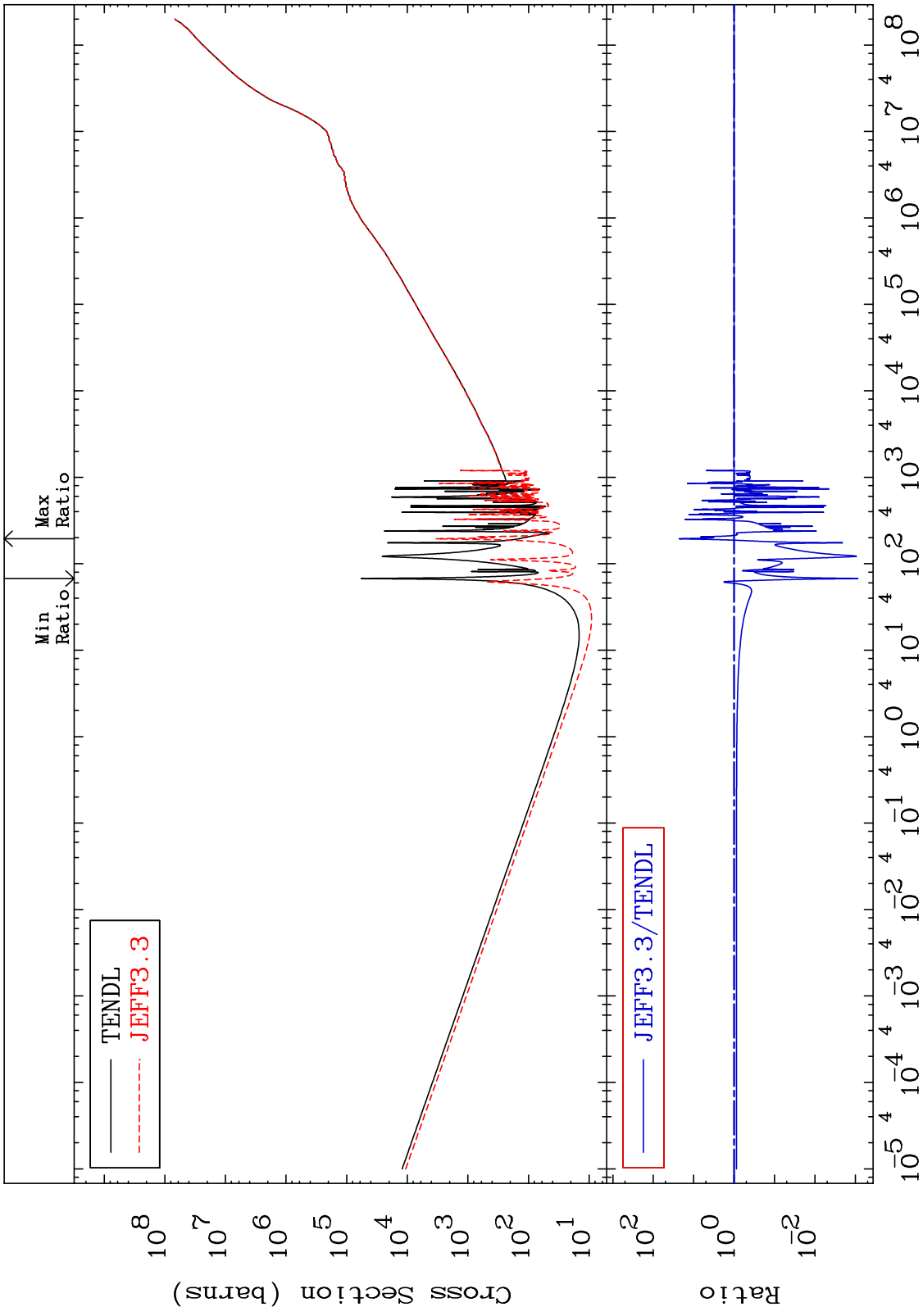
MAT 5137

Total photon (eV-barns)
Cross Section

51-Sb-125
-99.91 To 9999. %



MAT 5137 Total kinematic kerma (high limit) 51-Sb-125 -99.91 To 2203. %
 Cross Section

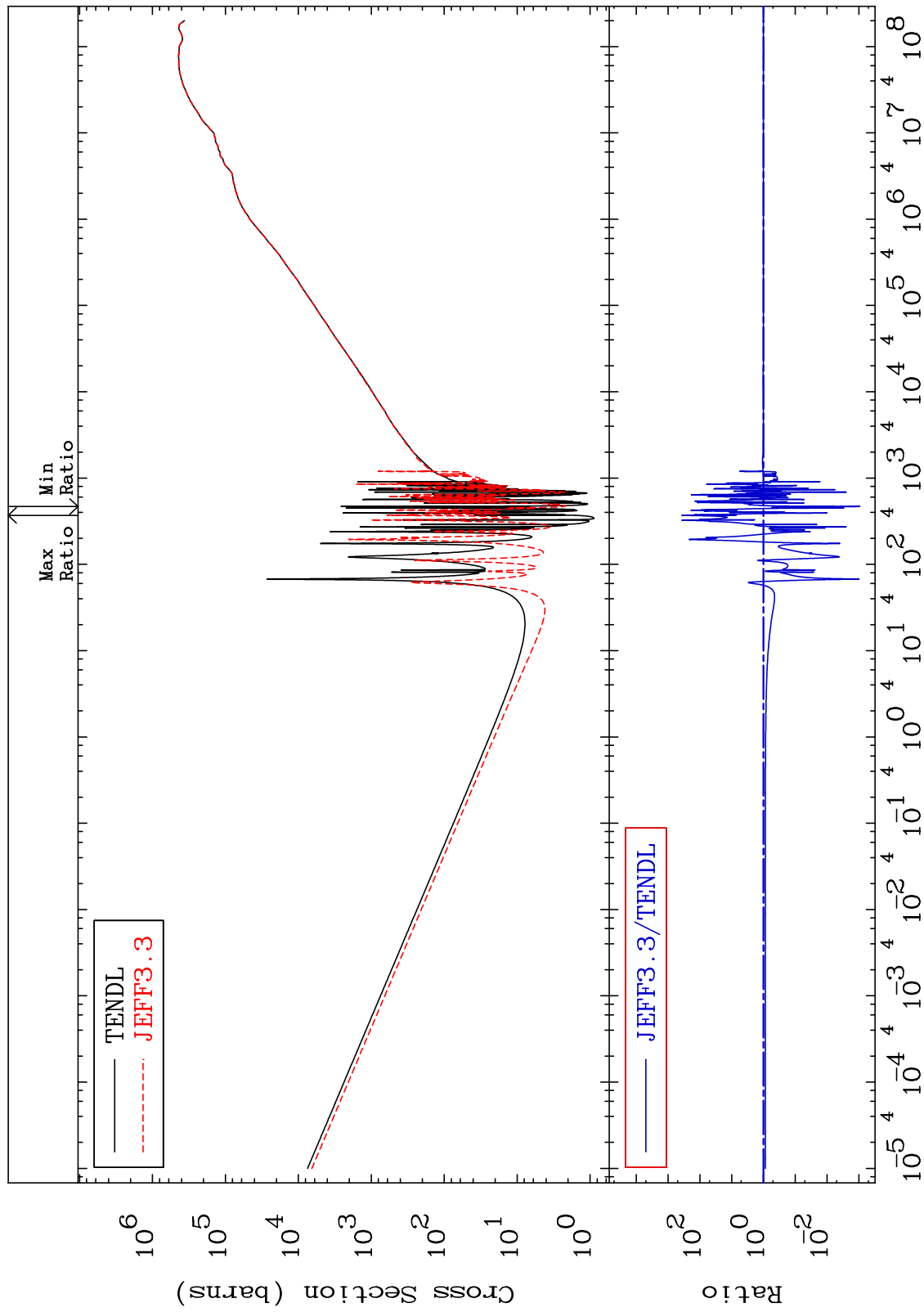


69 Incident Energy (eV) 51-Sb-125

MAT 5137

Dpa total (eV-barns)
Cross Section

51-Sb-125
-99.91 To 9999. %

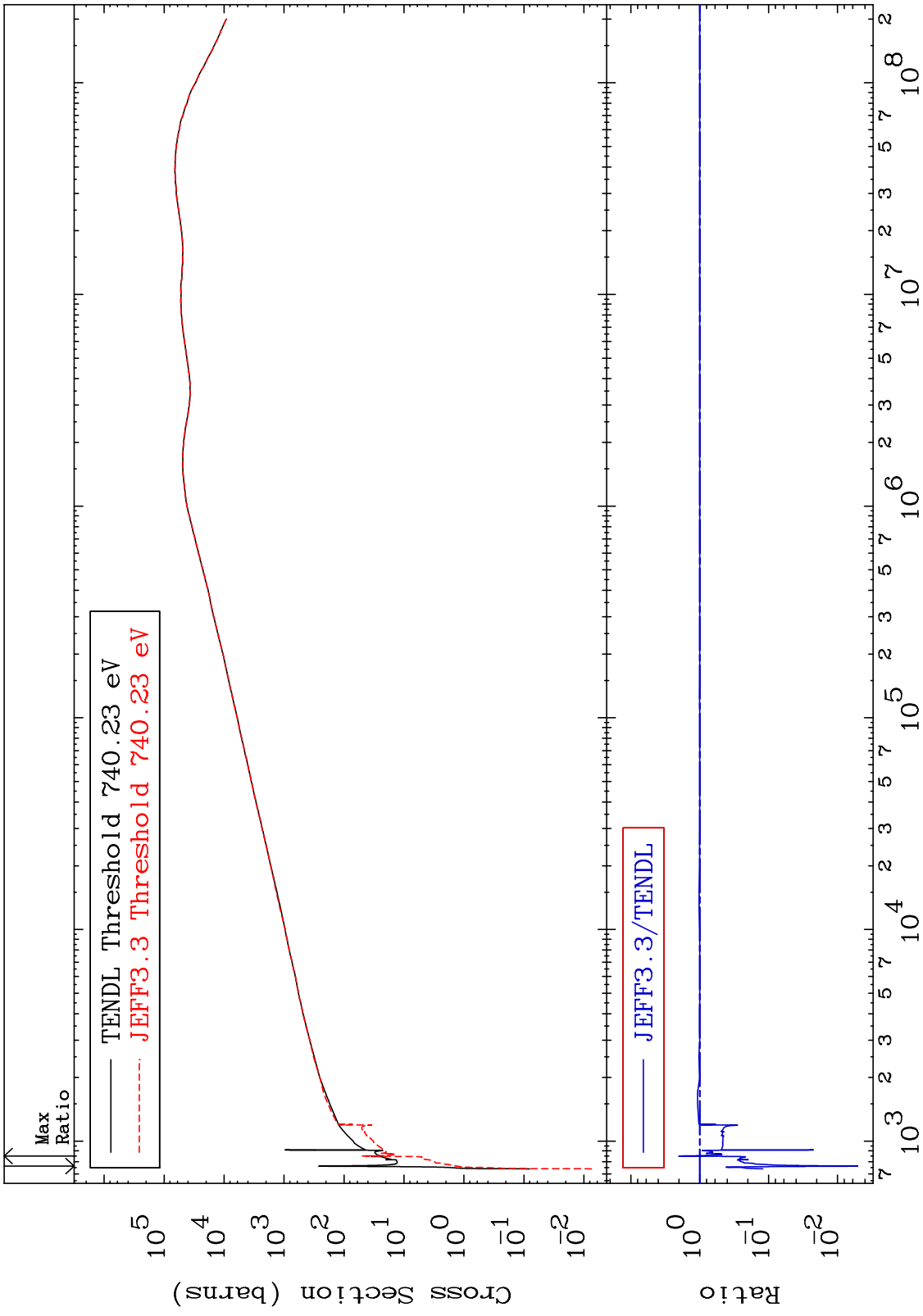


70

Incident Energy (eV)

51-Sb-125

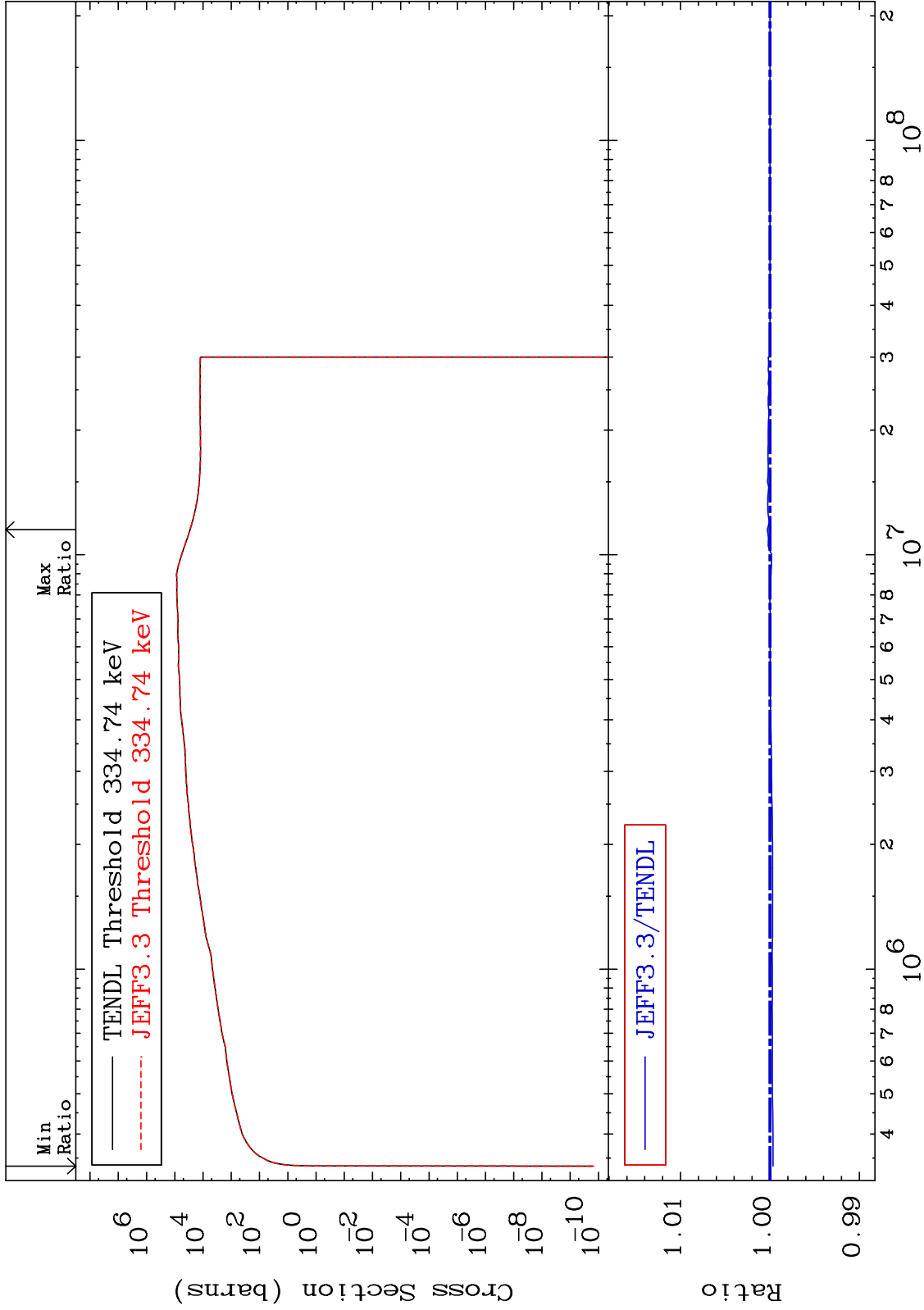
MAT 5137 Dpa elastic (mt2) 51-Sb-125
Cross Section -99.49 To 100.0 %



MAT 5137

Dpa inelastic (mt51-91)
Cross Section

51-Sb-125
-0.035 To 0.029 %



72

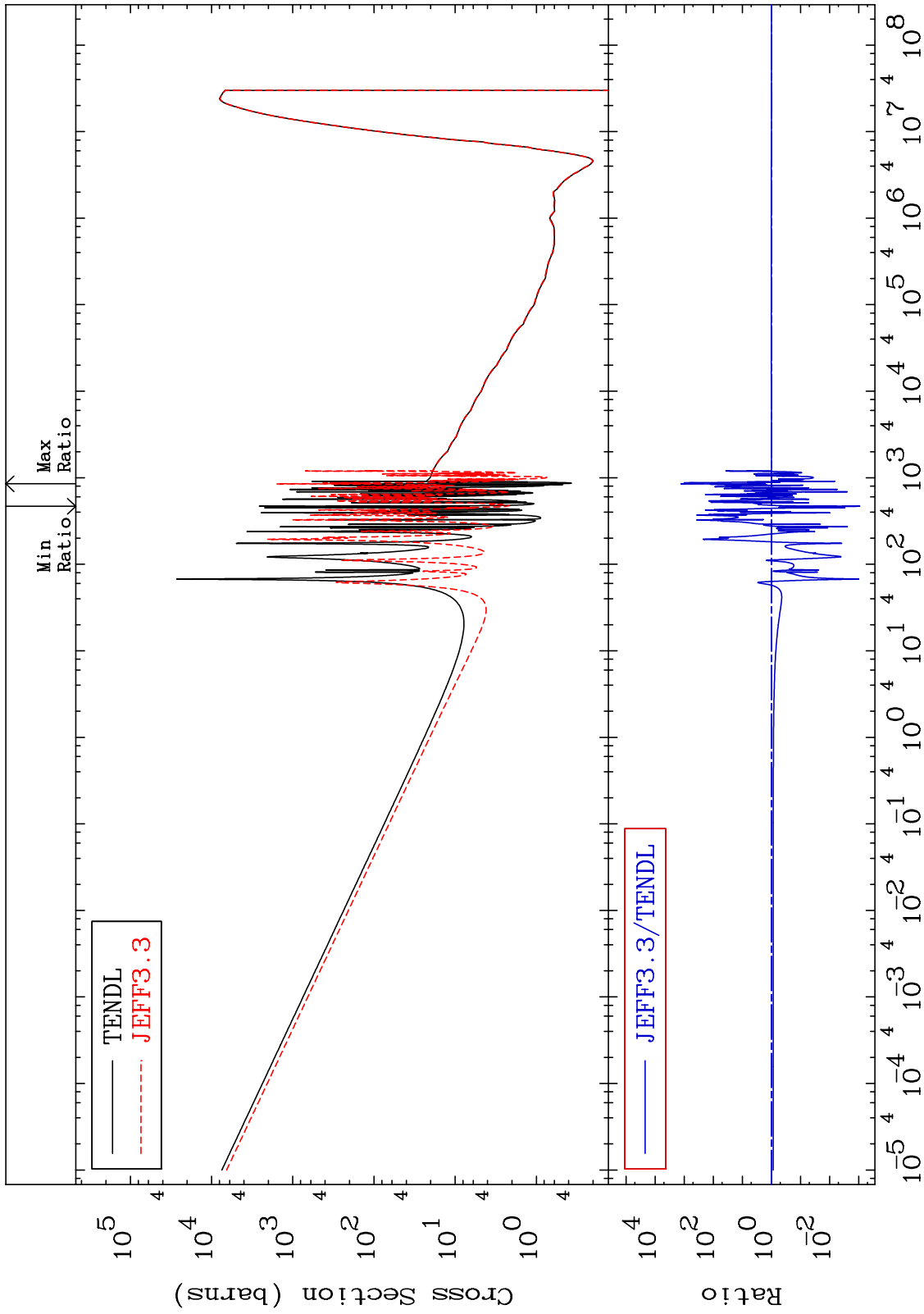
Incident Energy (eV)

51-Sb-125

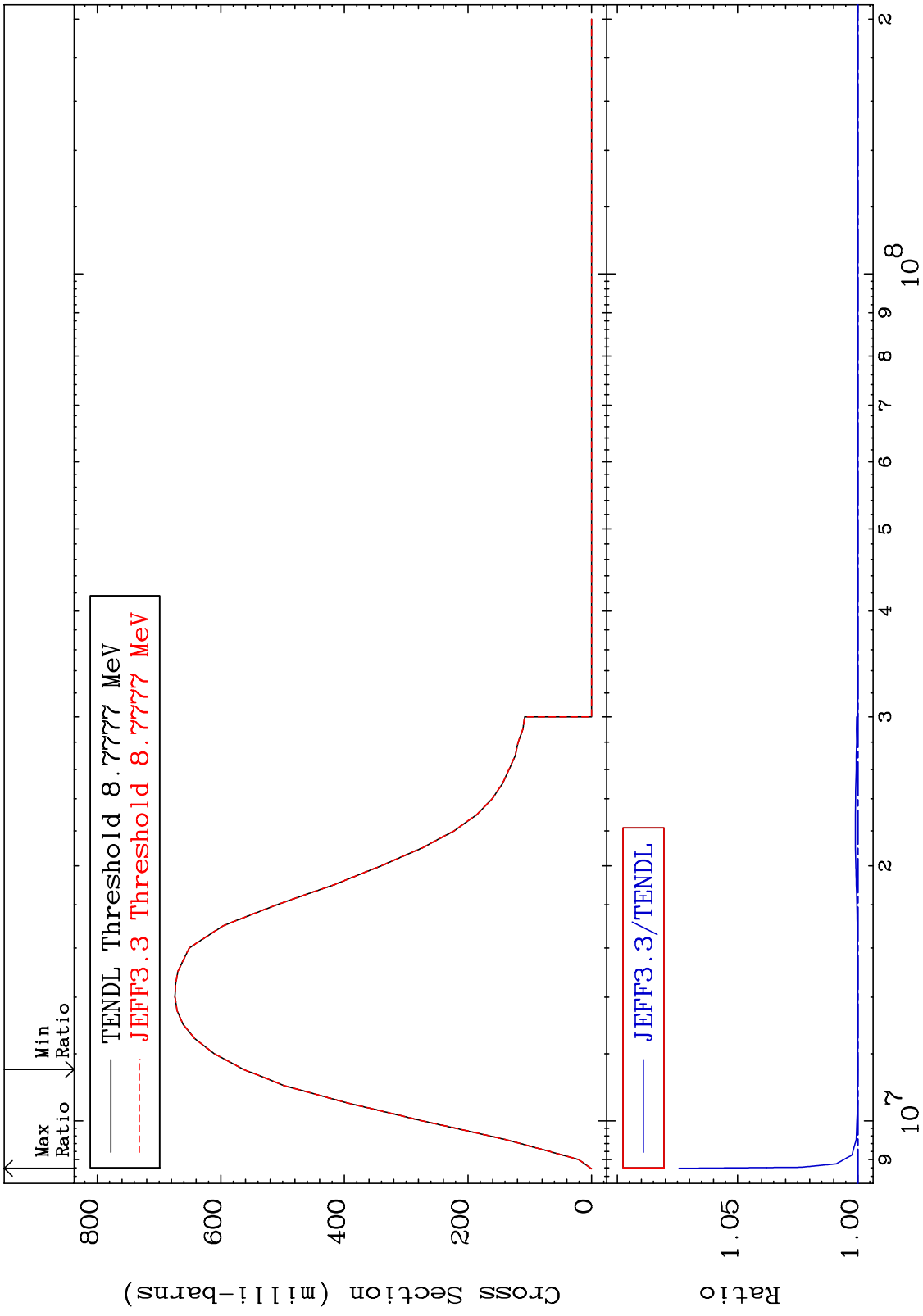
MAT 5137

Dpa disappearance (mt102 -120)
Cross Section

51-Sb-125
-99.91 To 9999. %

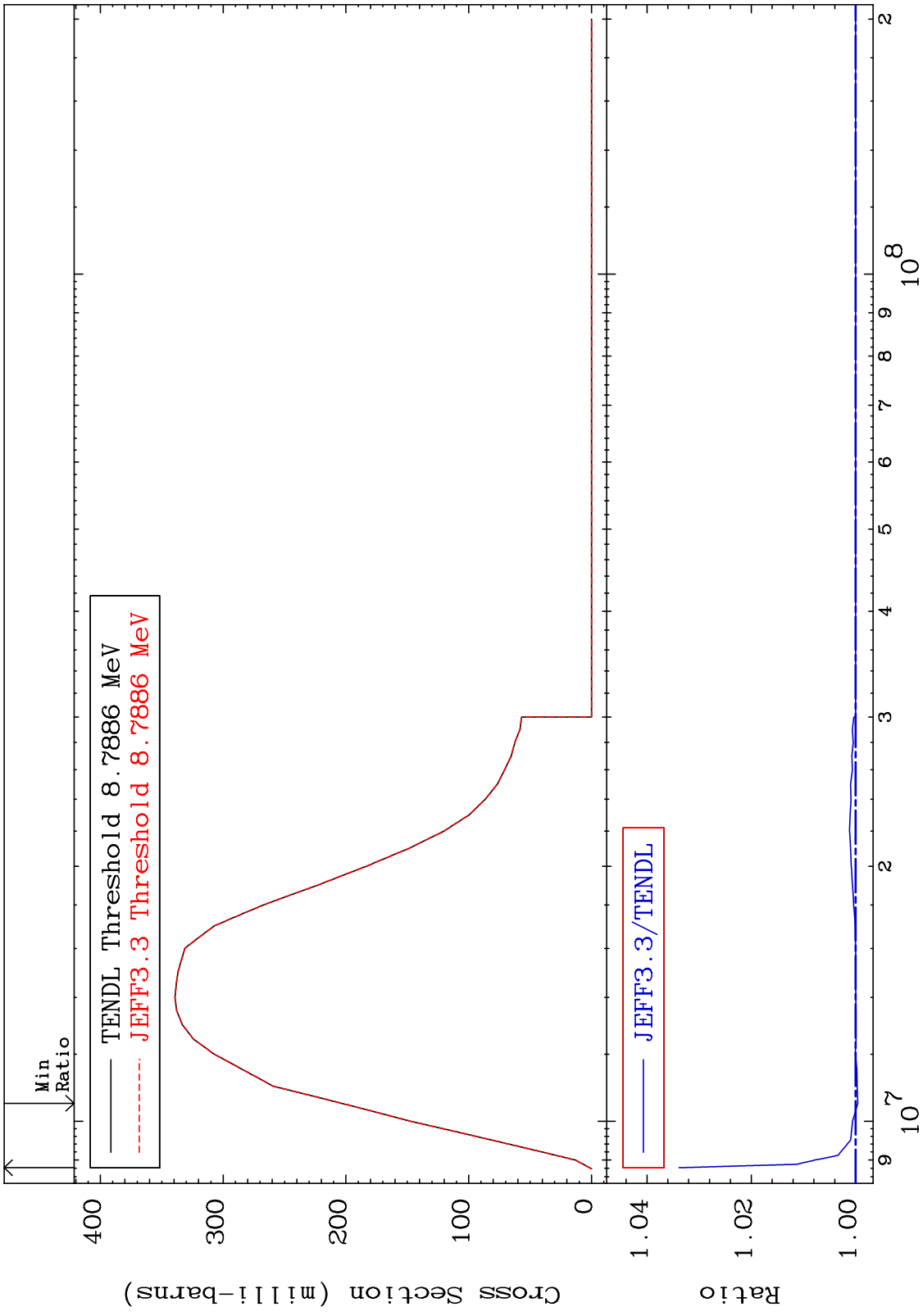


MAT 5137 (n,2n):51-Sb-124g 51-Sb-125
 Radionuclide Production Cross Section -0.006 To 7.431 %



74 Incident Energy (eV) 51-Sb-125

MAT 5137 (n,2n):51-Sb-124m1 51-Sb-125
Radionuclide Production Cross Section -0.043 To 3.385 %



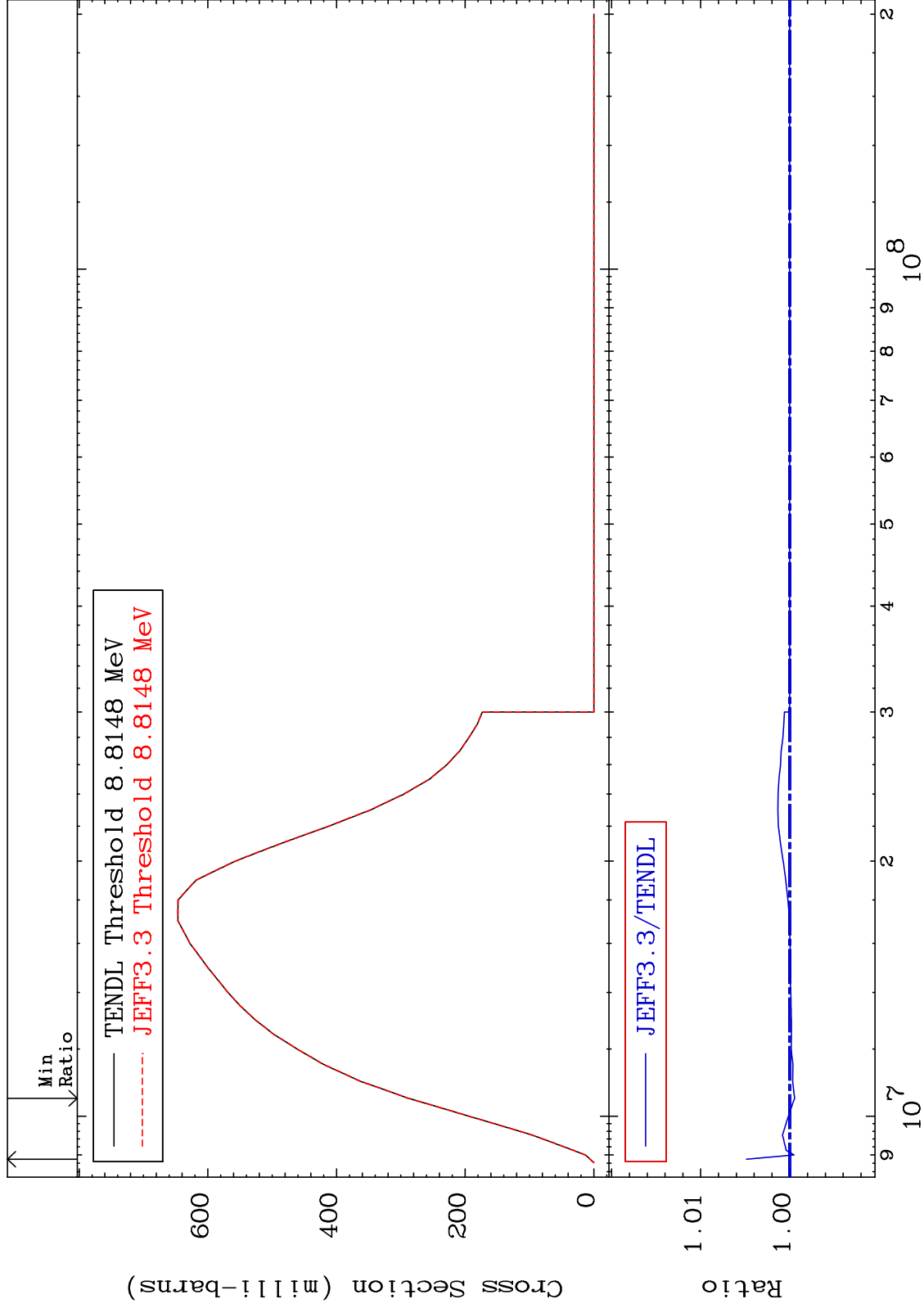
75 Incident Energy (eV) 51-Sb-125

MAT 5137

(n,2n):51-Sb-124m2

51-Sb-125

Radionuclide Production Cross Section -0.054 To 0.486 %



76

Incident Energy (eV)

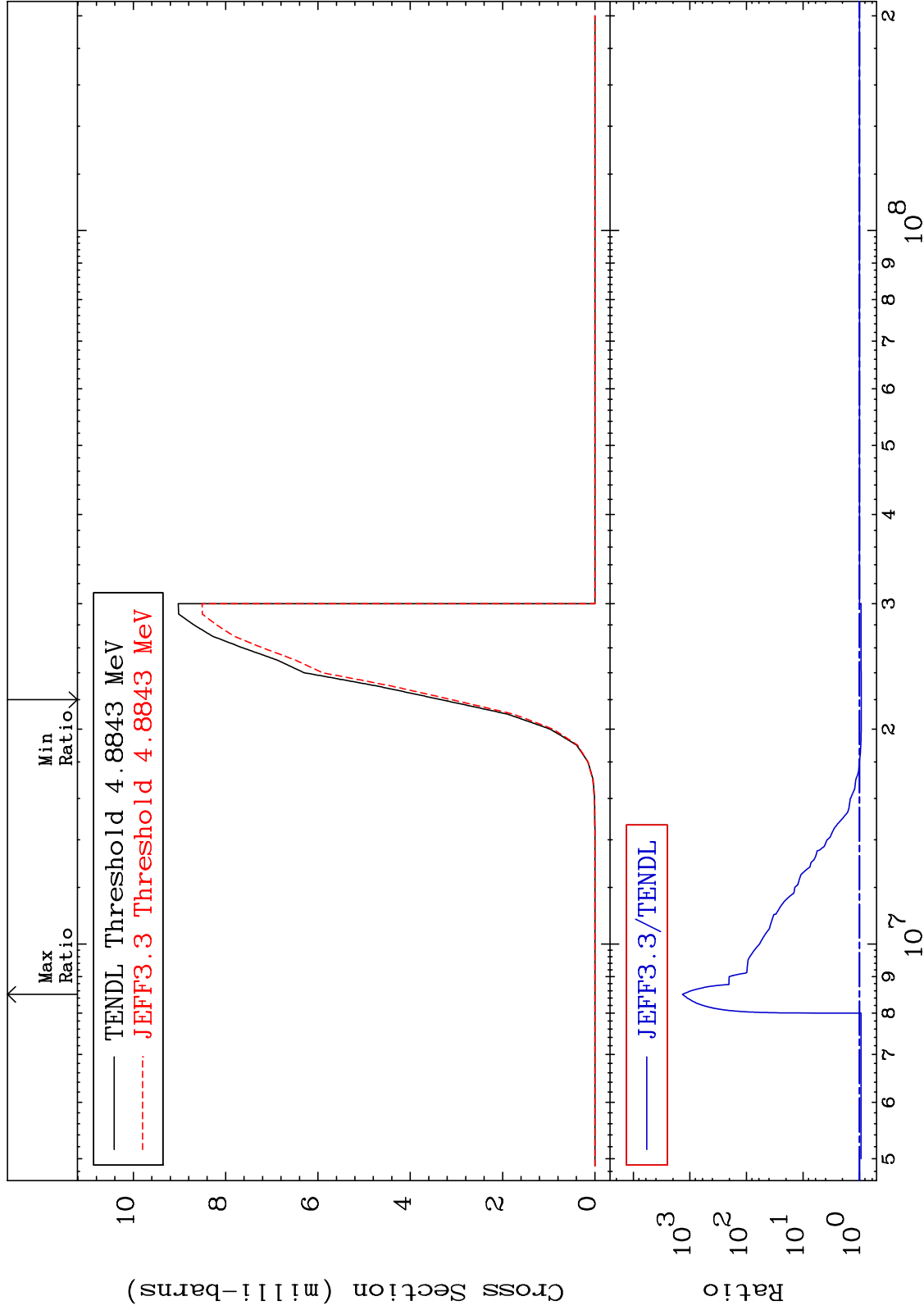
51-Sb-125

MAT 5137

(n, n') α : 49-In-121g

51-Sb-125

Radionuclide Production Cross Section -6.808 To 9999. %



77

Incident Energy (eV)

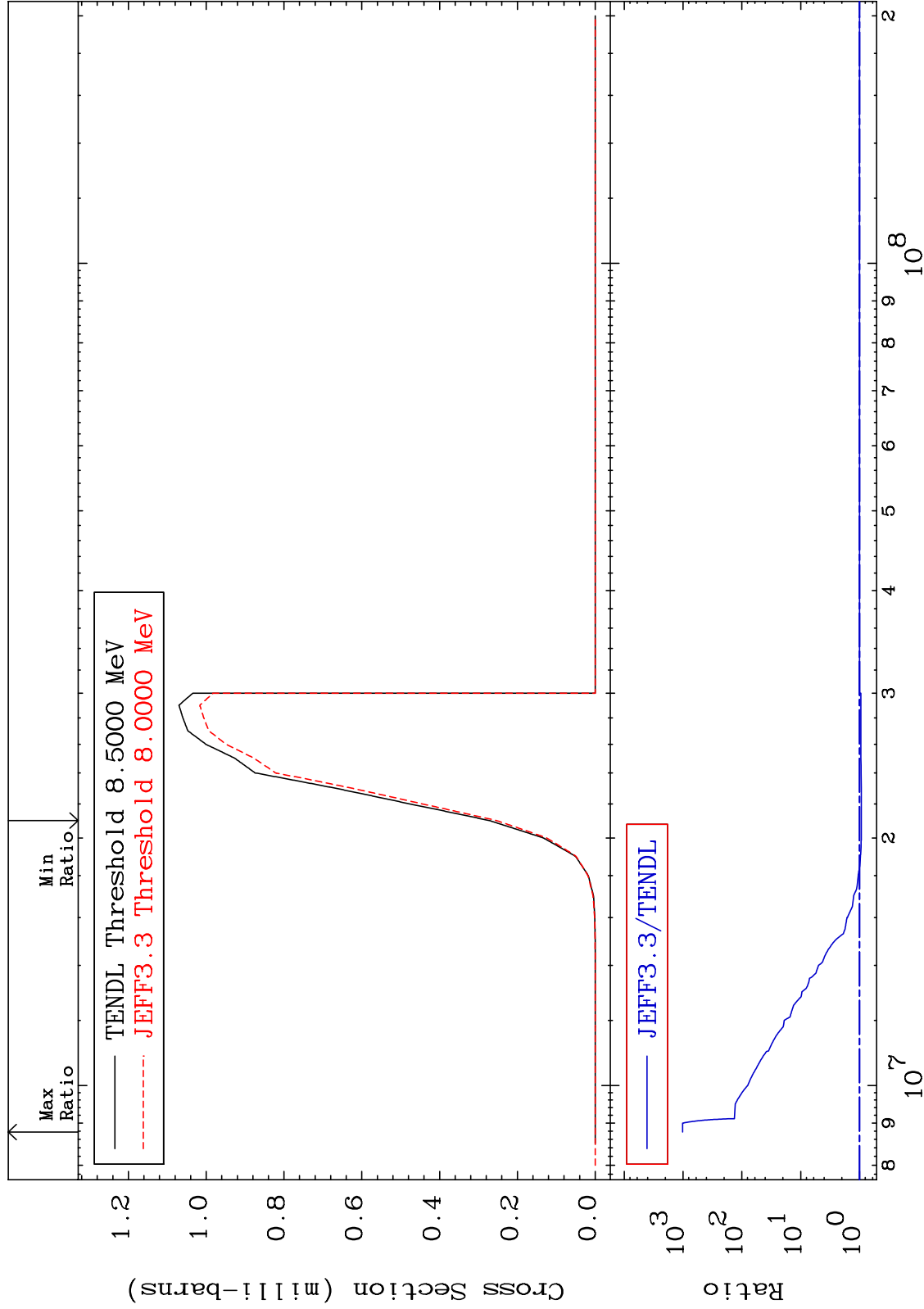
51-Sb-125

MAT 5137

(n,n') α : 49-In-121m1

51-Sb-125

Radionuclide Production Cross Section -6.901 To 9999. %



78

Incident Energy (eV)

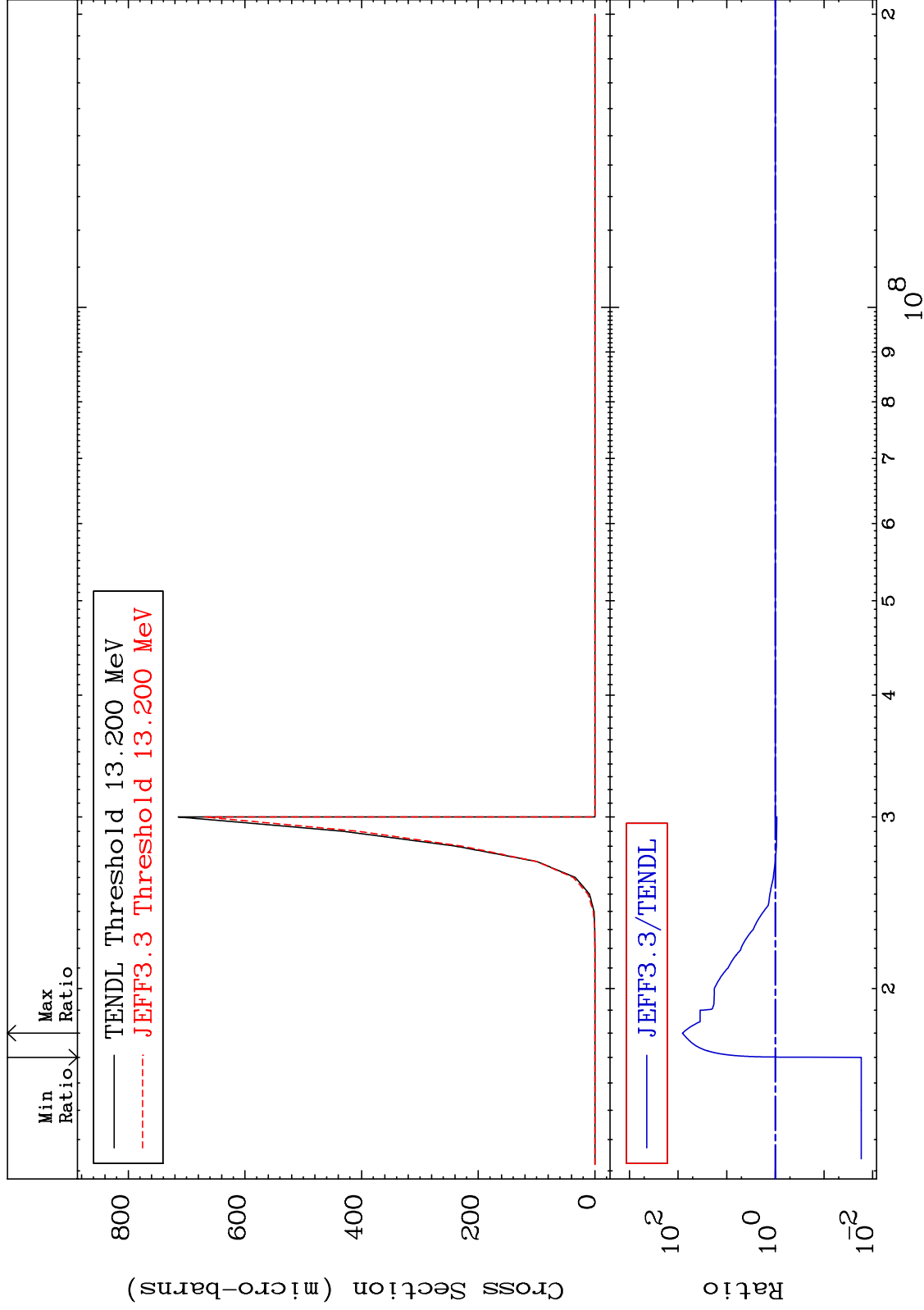
51-Sb-125

MAT 5137

(n,2n) α : 49-In-120m1

51-Sb-125

Radionuclide Production Cross Section -98.28 To 8041. %



80

Incident Energy (eV)

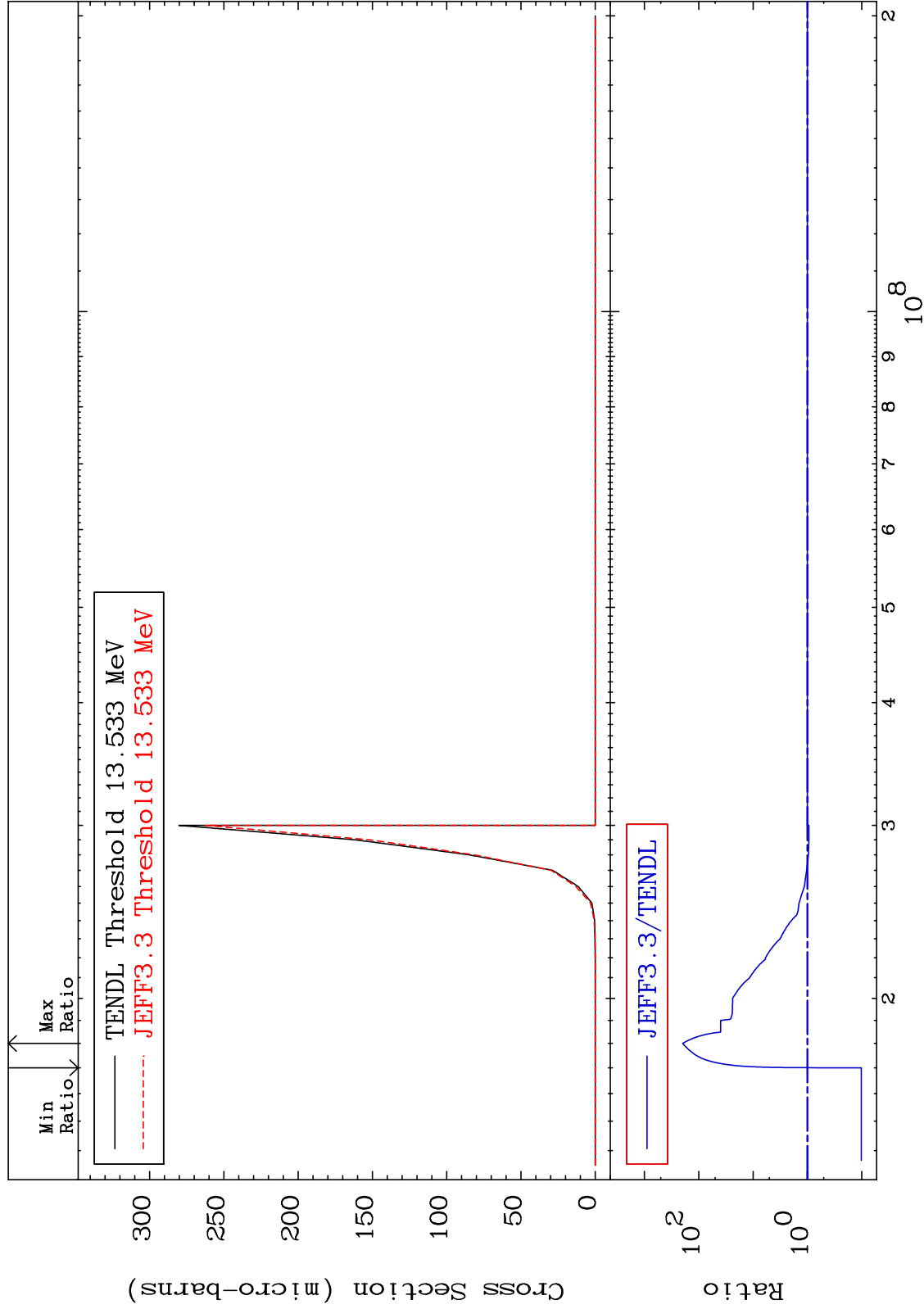
51-Sb-125

MAT 5137

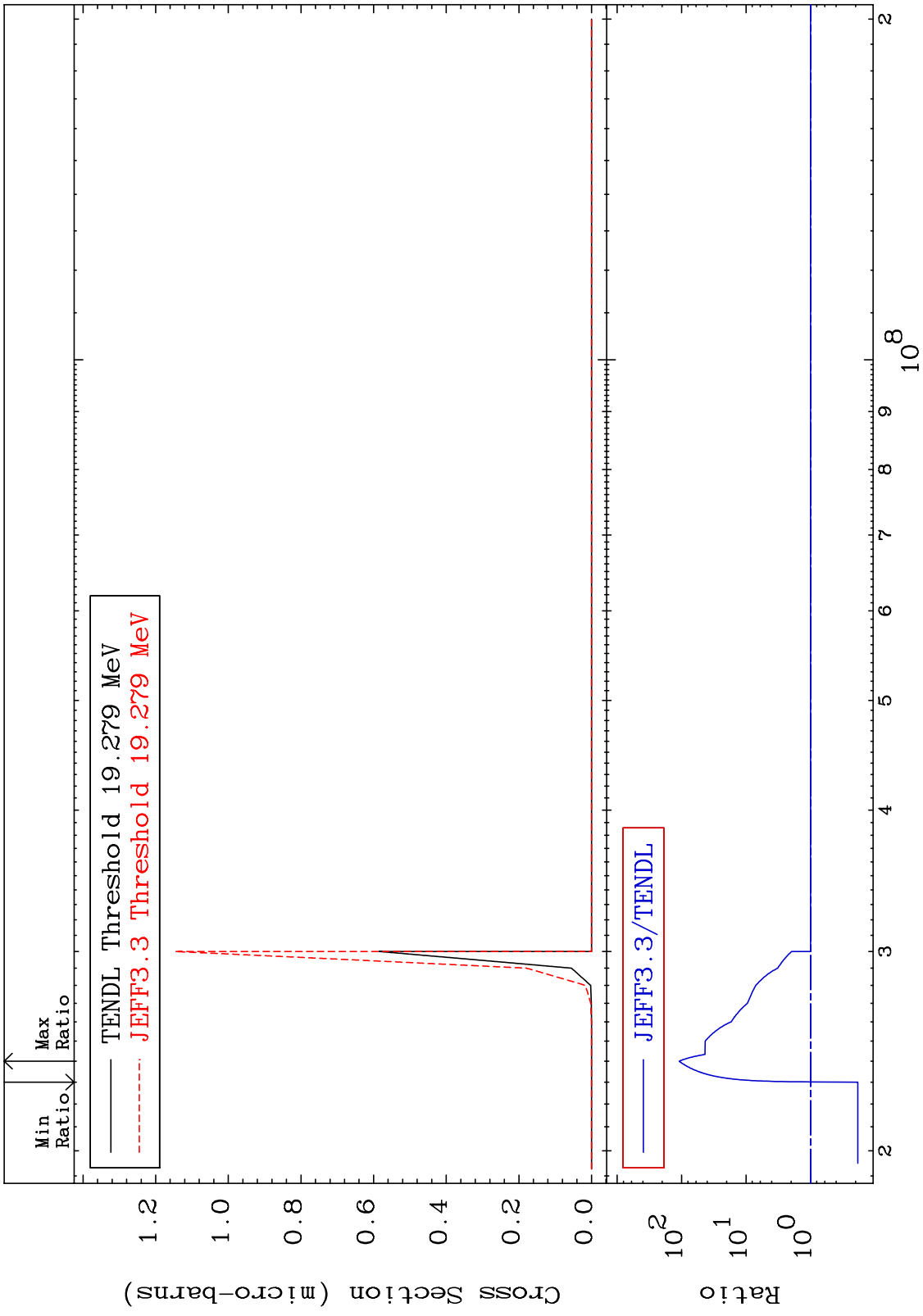
(n,2n) α : 49-In-120m2

51-Sb-125

Radionuclide Production Cross Section -89.83 To 9999. %



MAT 5137 (n,3n) α :49-In-119g 51-Sb-125
 Radionuclide Production Cross Section -81.60 To 9999. %

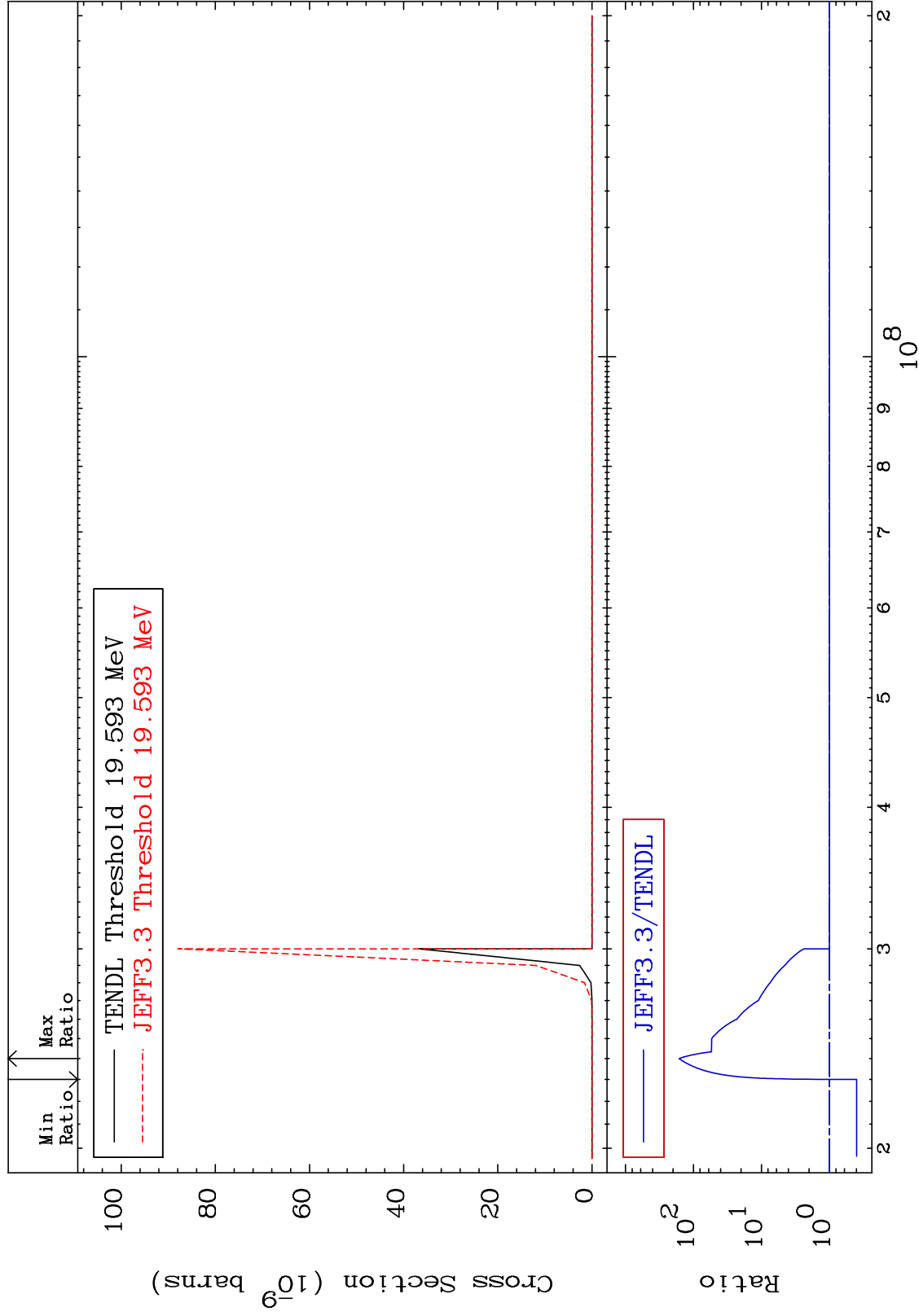


MAT 5137

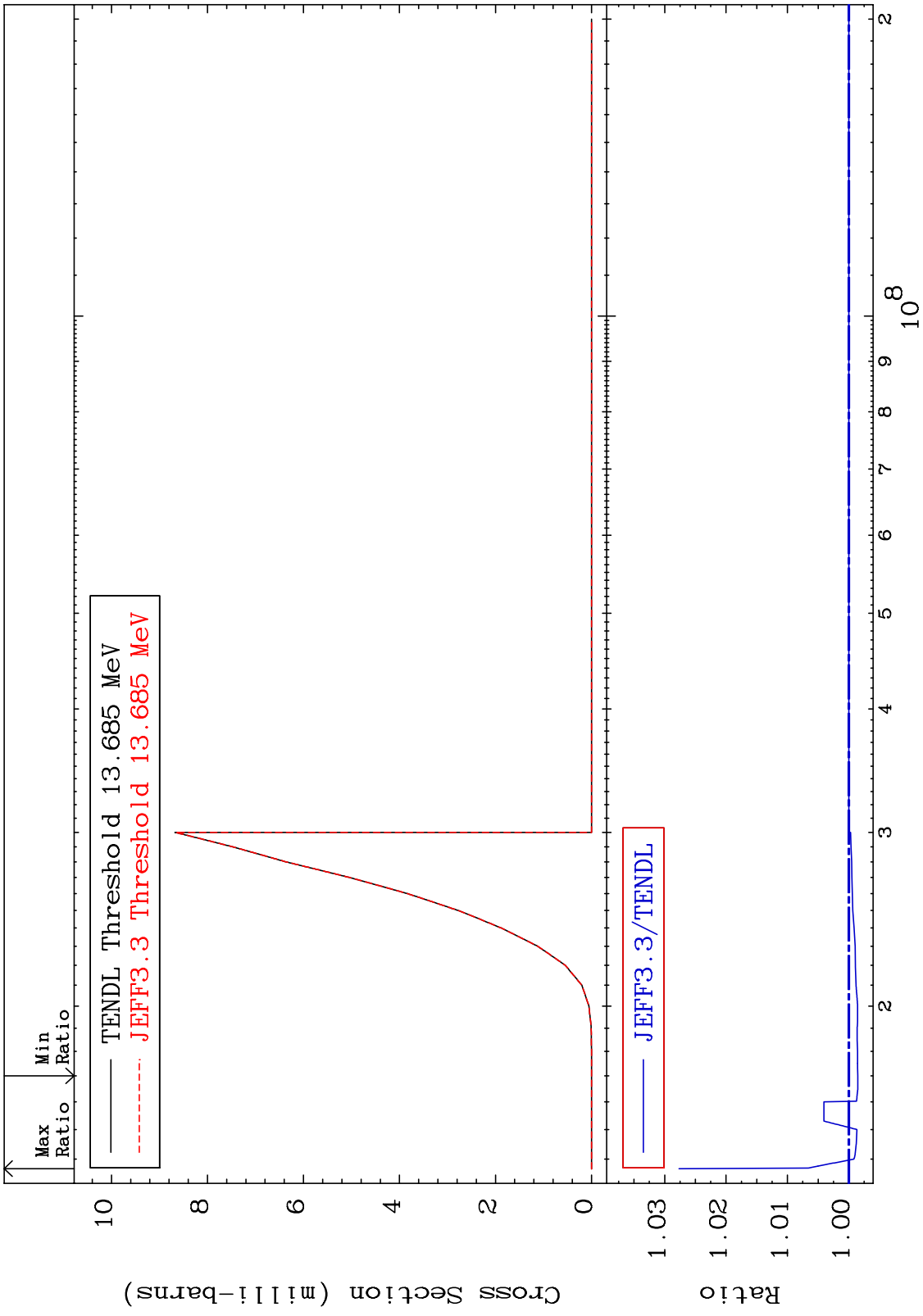
(n,3n) α :49-In-119m1

51-Sb-125

Radionuclide Production Cross Section -60.30 To 9999. %



MAT 5137 (n, n') d:50-Sn-123g 51-Sb-125
 Radionuclide Production Cross Section -0.146 To 2.766 %

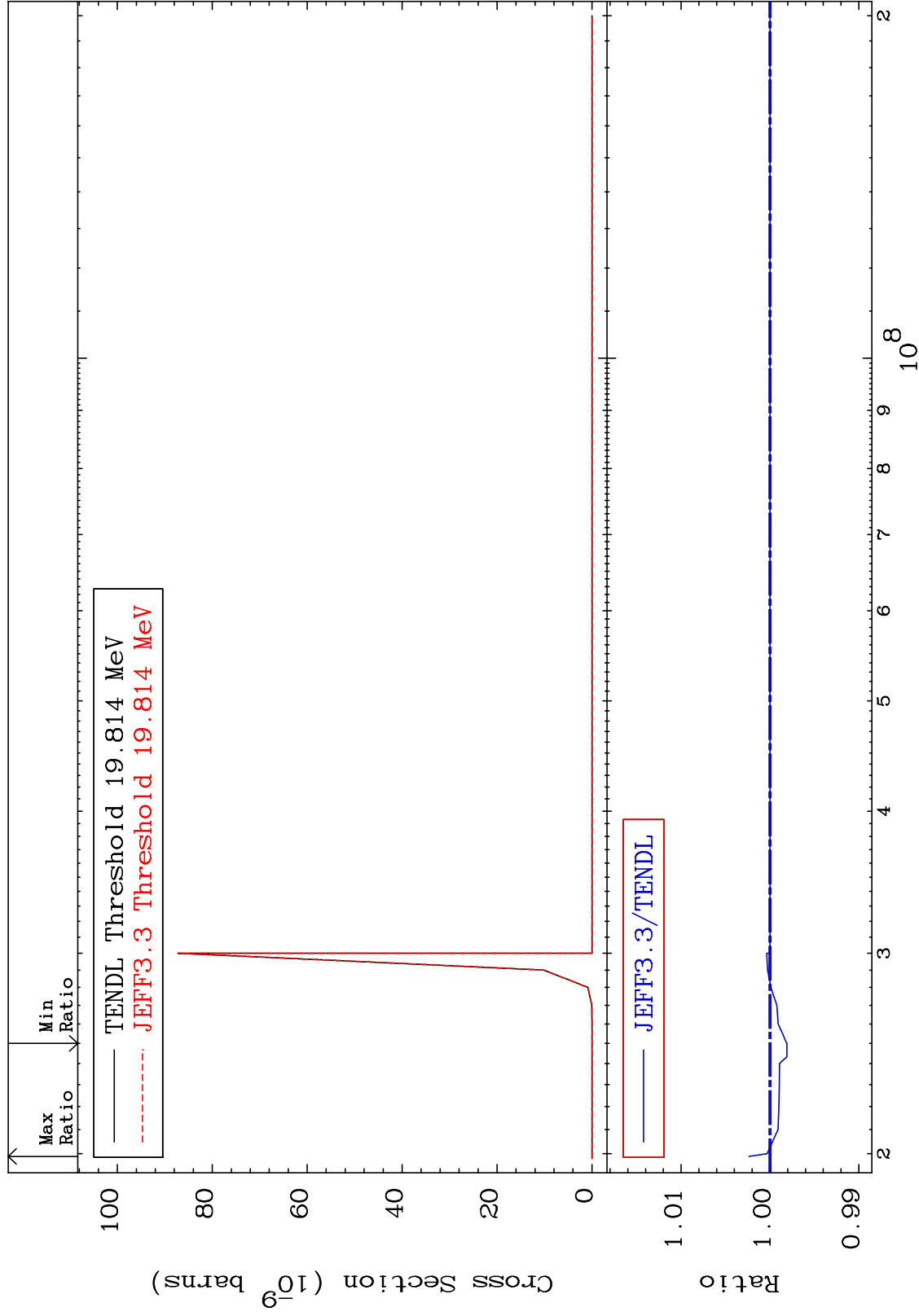


MAT 5137

(n,n') He-3:49-In-122m1

51-Sb-125

Radionuclide Production Cross Section -0.190 To 0.237 %



87

Incident Energy (eV)

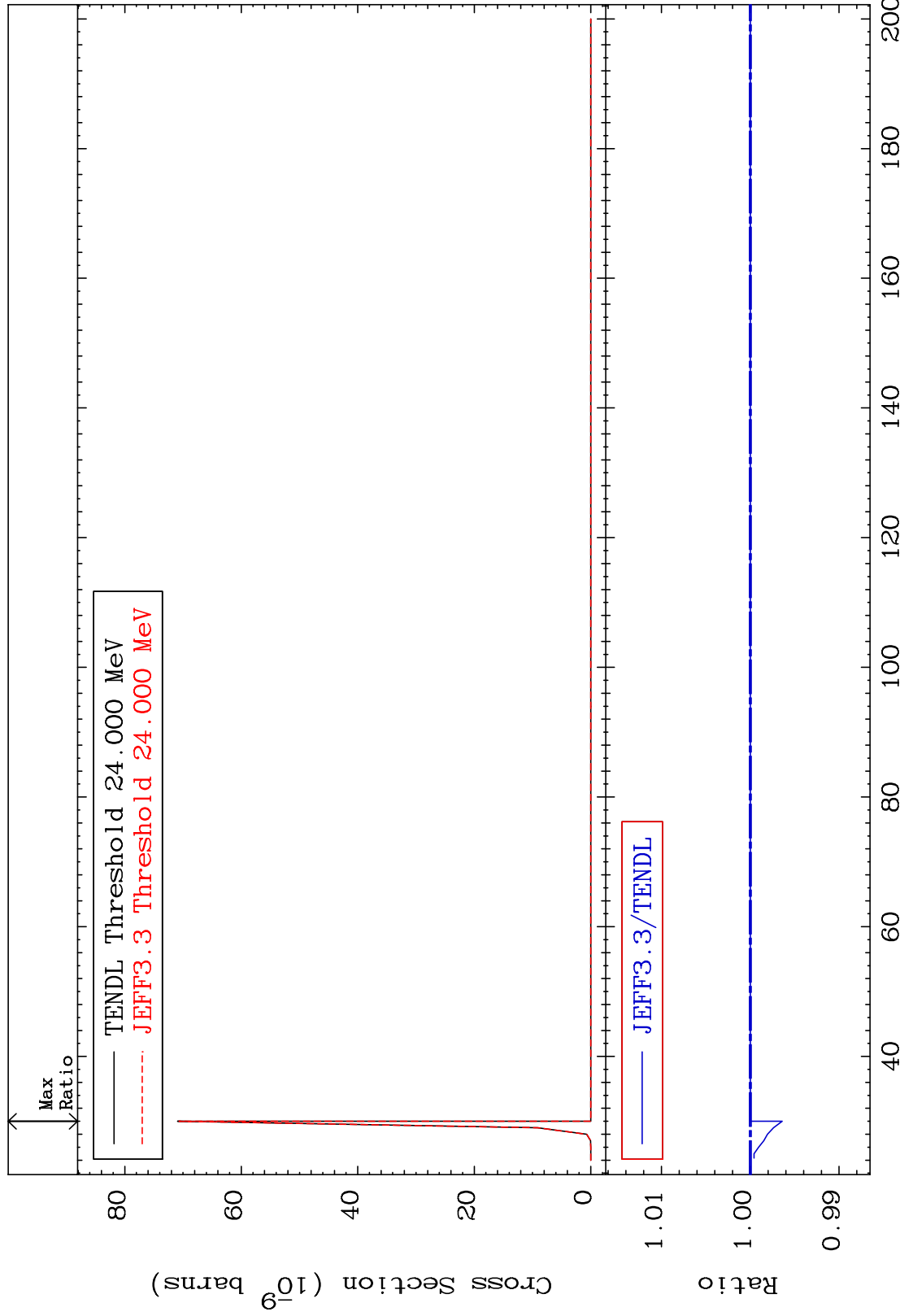
51-Sb-125

MAT 5137

(n, n') He-3:49-In-122m5

51-Sb-125

Radionuclide Production Cross Section -0.359 To 0.000 %

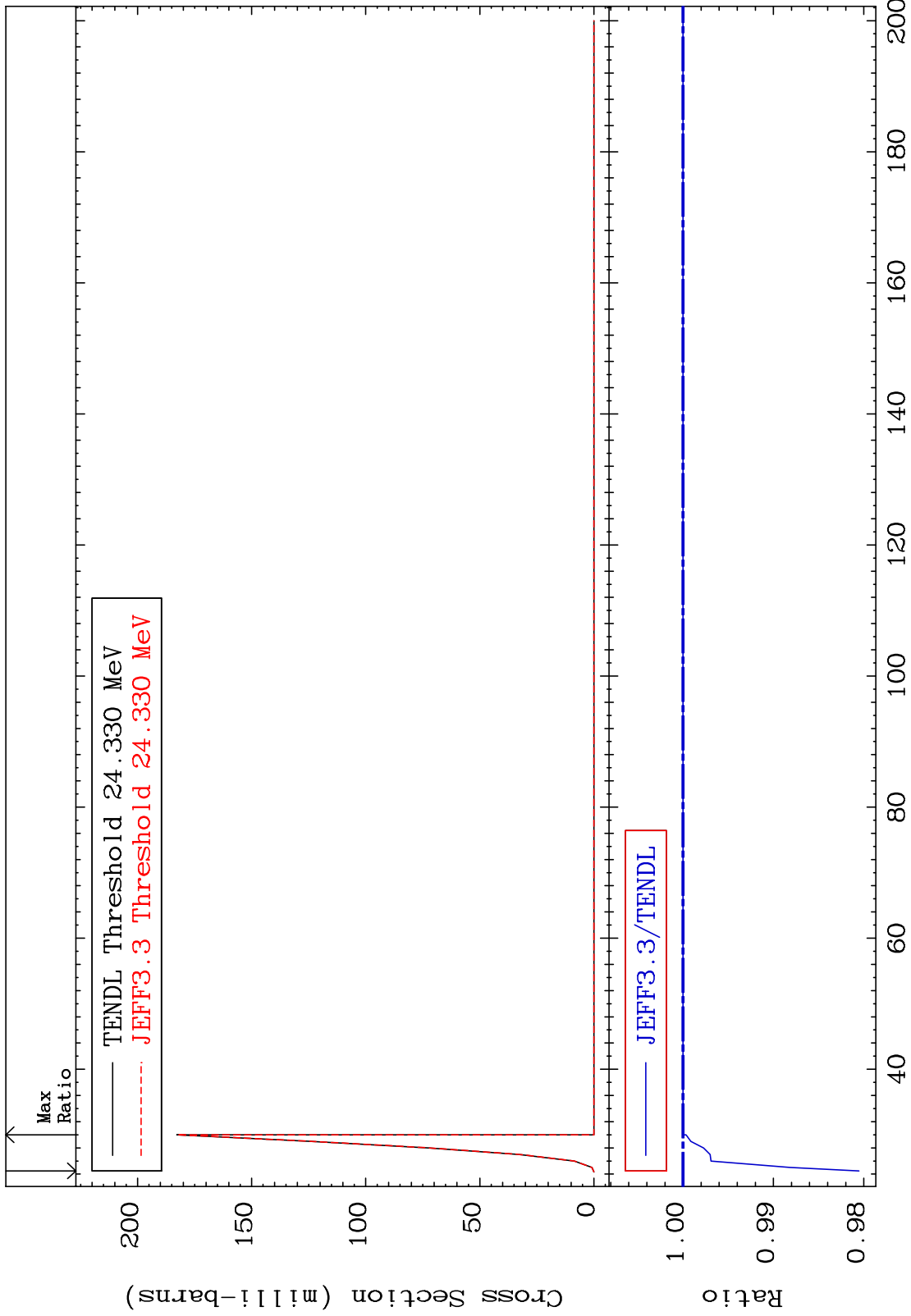


MAT 5137

(n,4n):51-Sb-122g

51-Sb-125

Radionuclide Production Cross Section -1.947 To 0.000 %

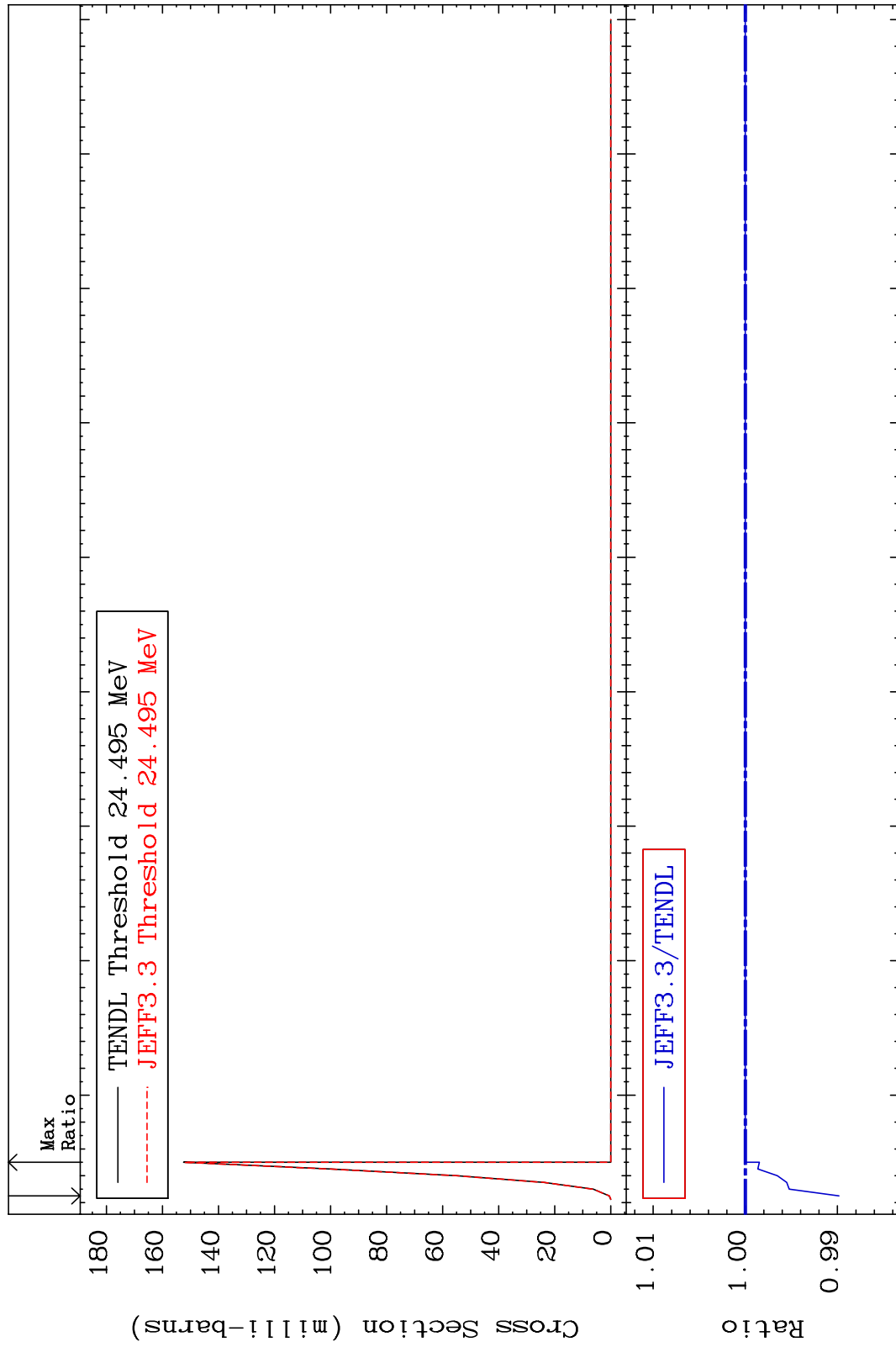


MAT 5137

(n,4n):51-Sb-122m5

51-Sb-125

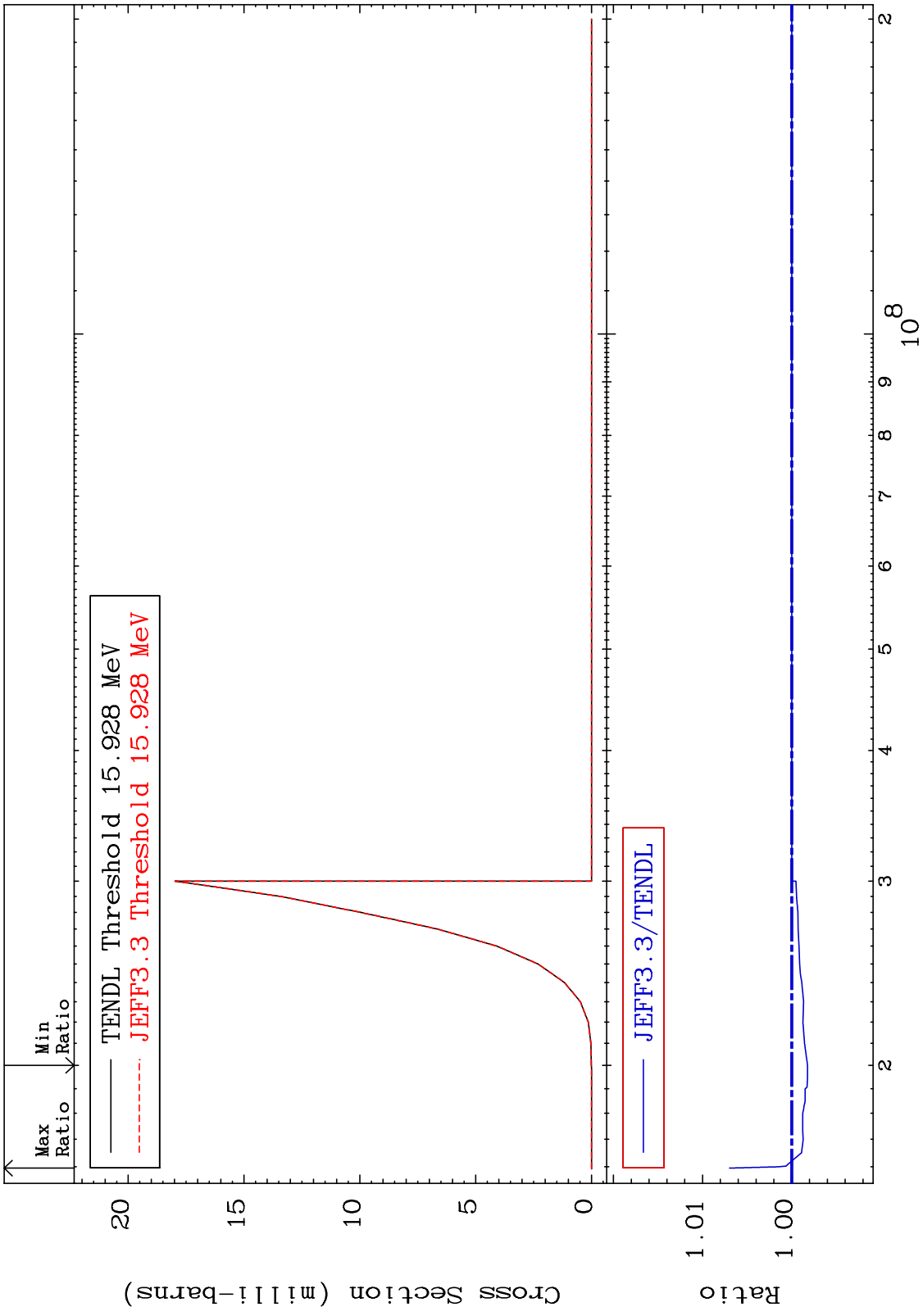
Radionuclide Production Cross Section -1.016 To 0.000 %



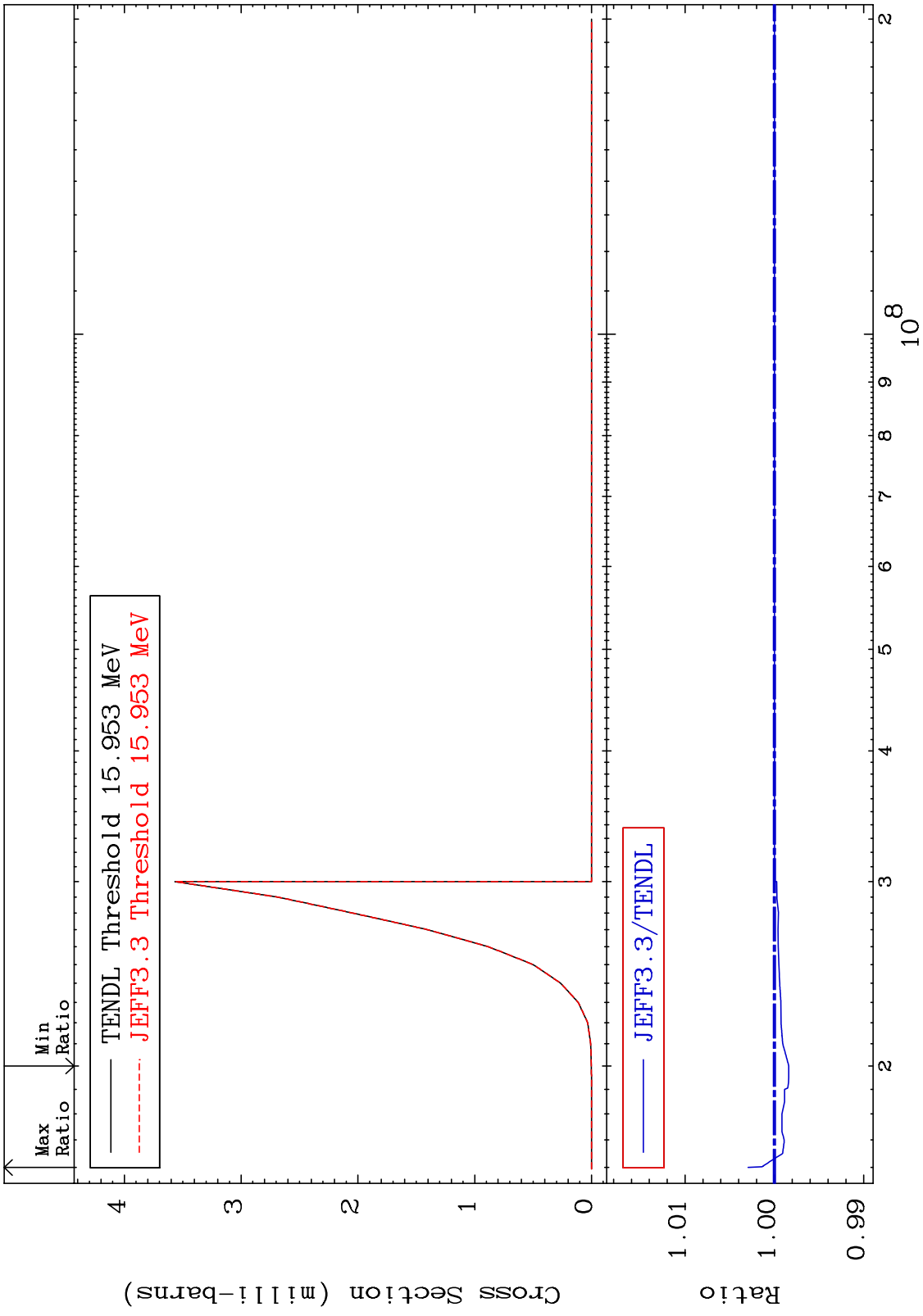
90

Incident Energy (MeV)

51-Sb-125



MAT 5137 (n,2n) p:50-Sn-123m1 51-Sb-125
 Radionuclide Production Cross Section -0.161 To 0.295 %

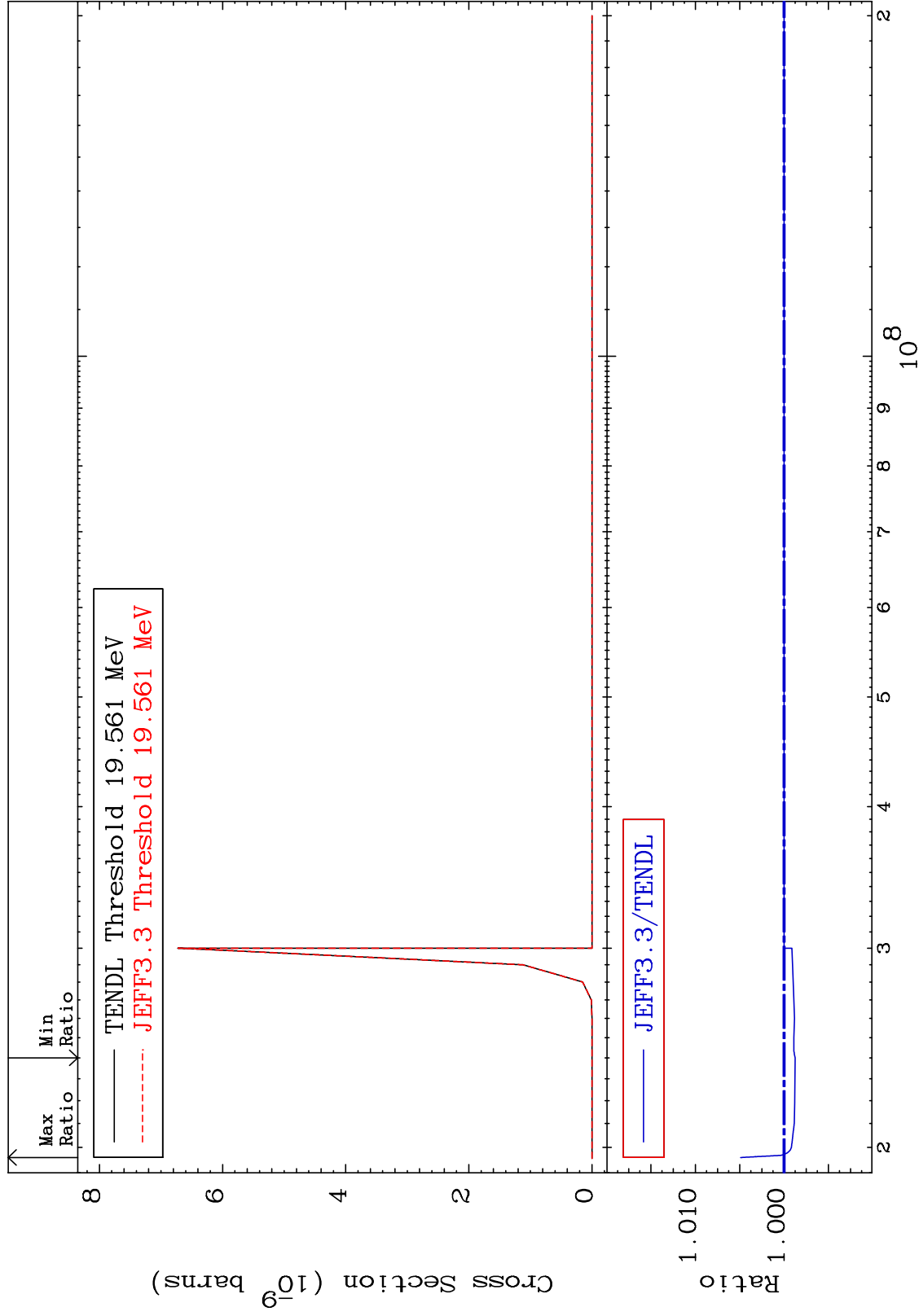


MAT 5137

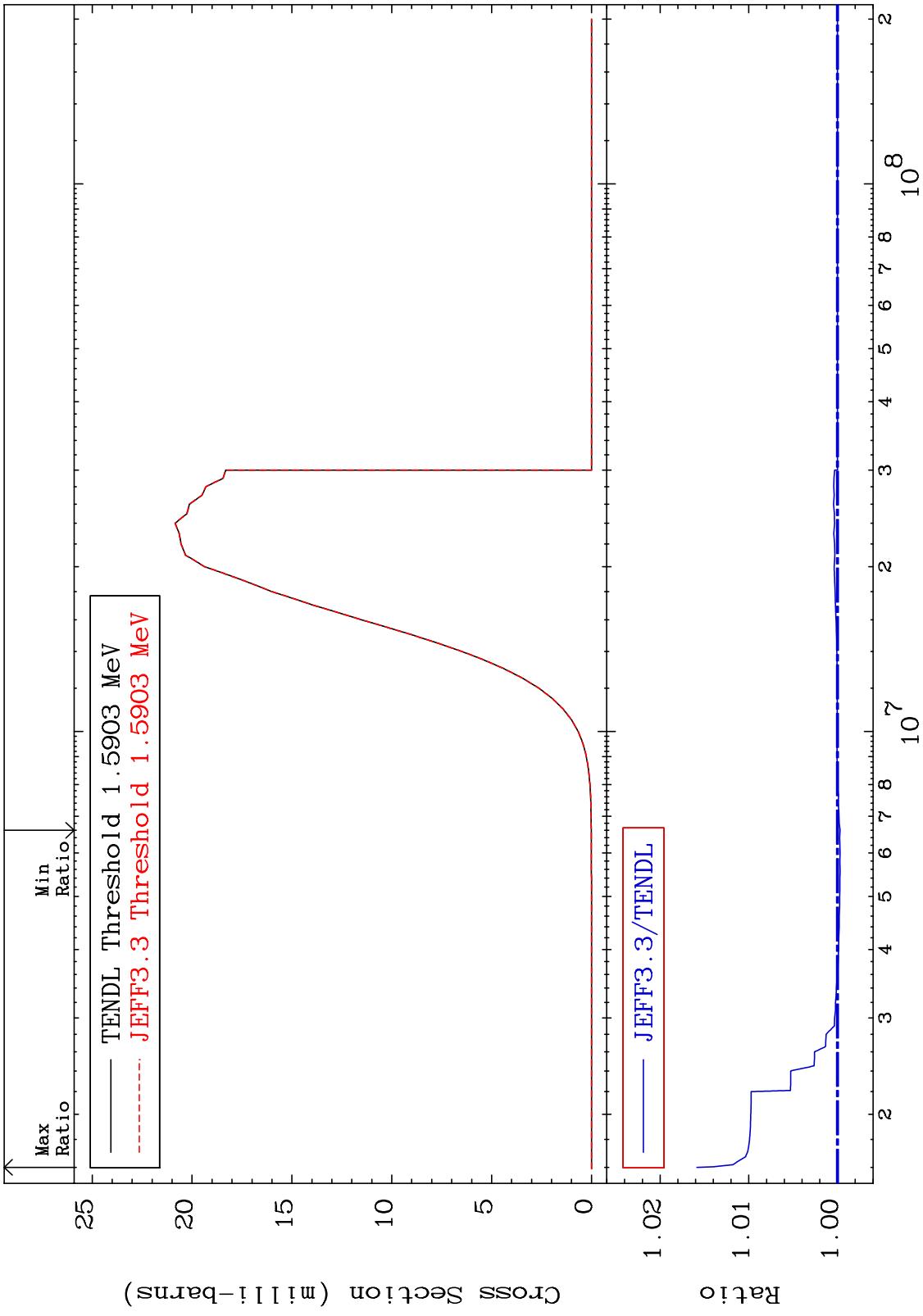
(n,2n) p:49-In-123g

51-Sb-125

Radionuclide Production Cross Section -0.125 To 0.490 %



MAT 5137 (n,p):50-Sn-125g 51-Sb-125
 Radionuclide Production Cross Section -0.029 To 1.586 %

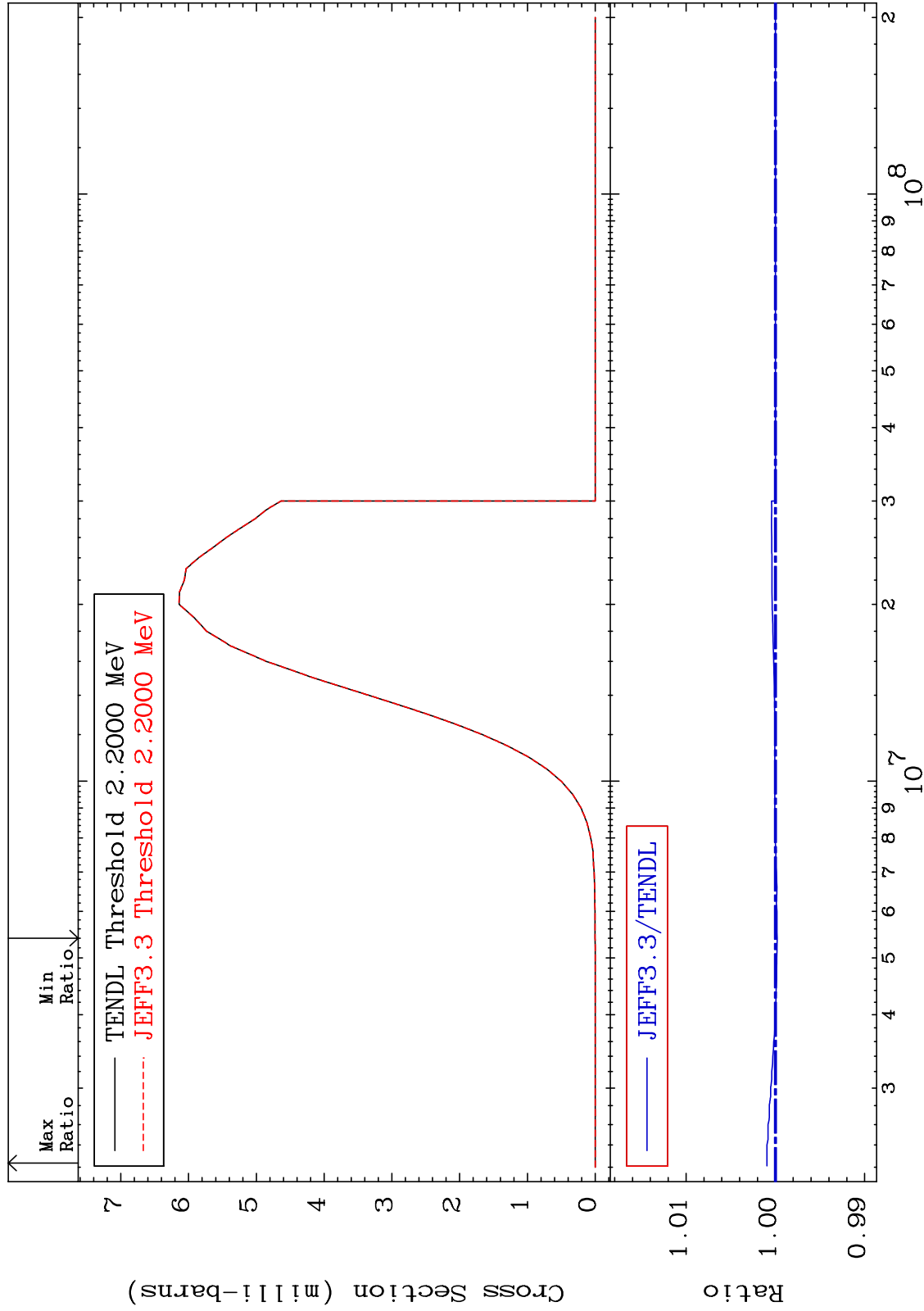


MAT 5137

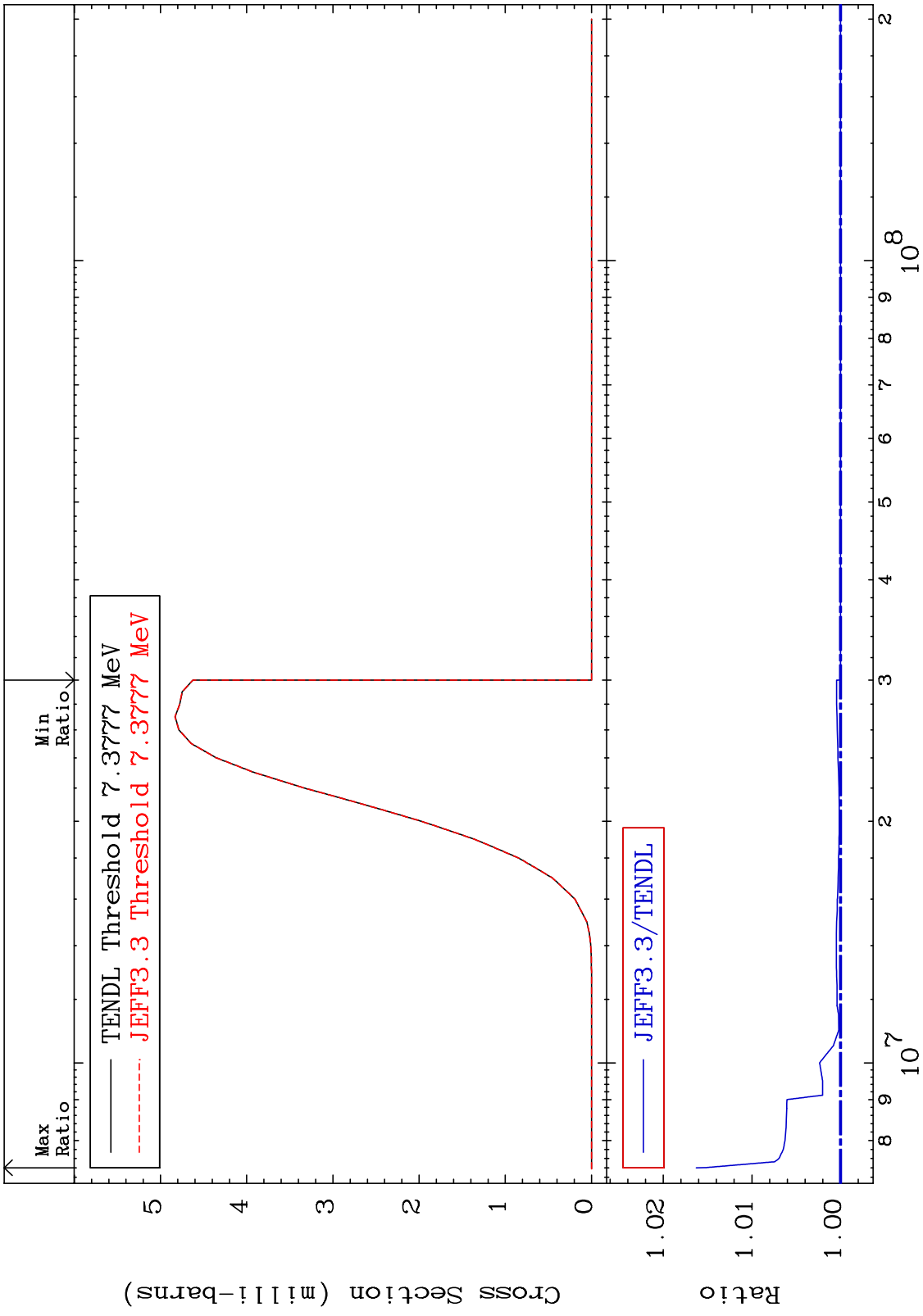
(n, p): 50-Sn-125m1

51-Sb-125

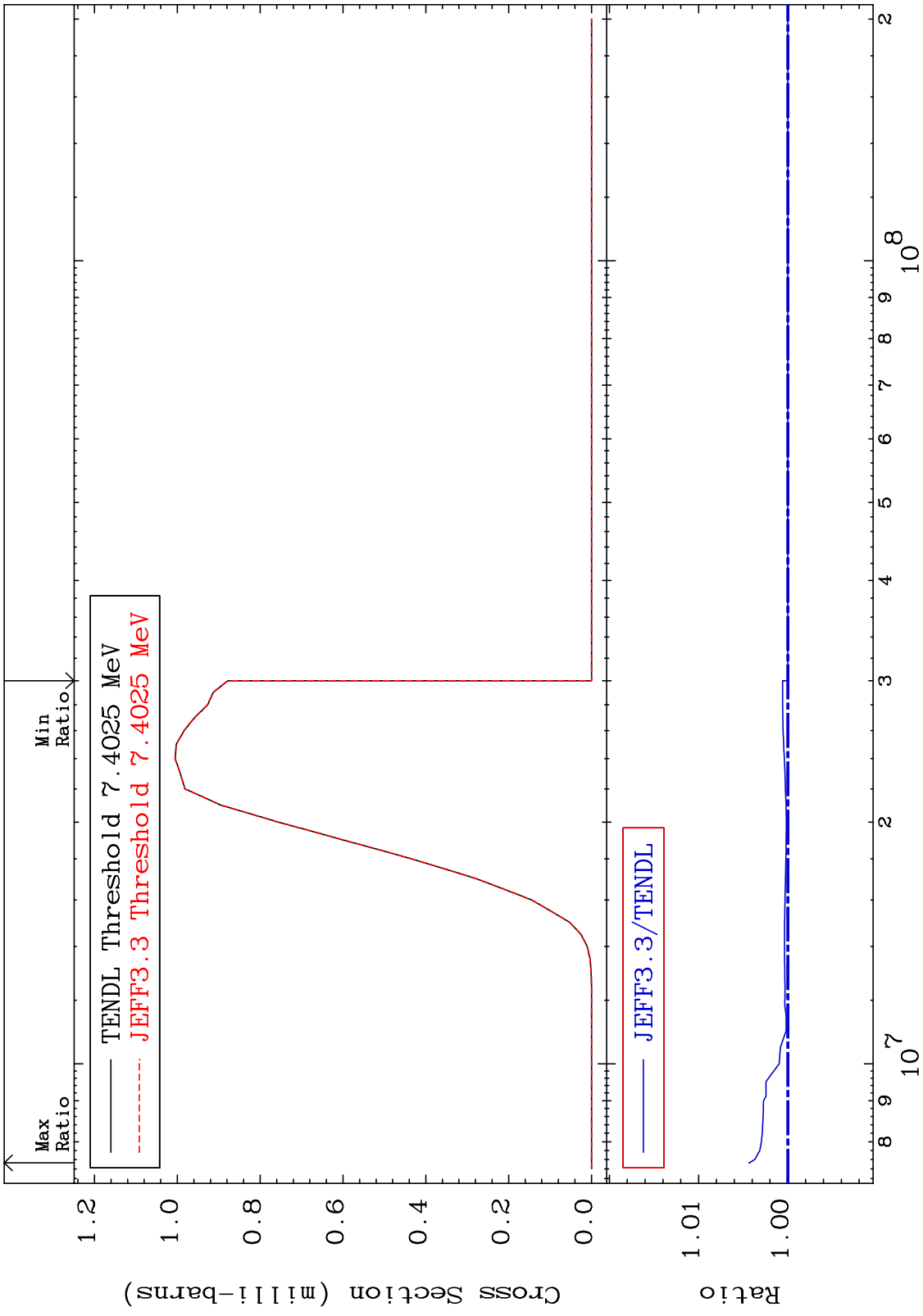
Radionuclide Production Cross Section -0.020 To 0.095 %



MAT 5137 (n,t):50-Sn-123g 51-Sb-125
 Radionuclide Production Cross Section 0.000 To 1.627 %



MAT 5137 (n, t): 50-Sn-123m1 51-Sb-125
 Radionuclide Production Cross Section 0.000 To 0.434 %

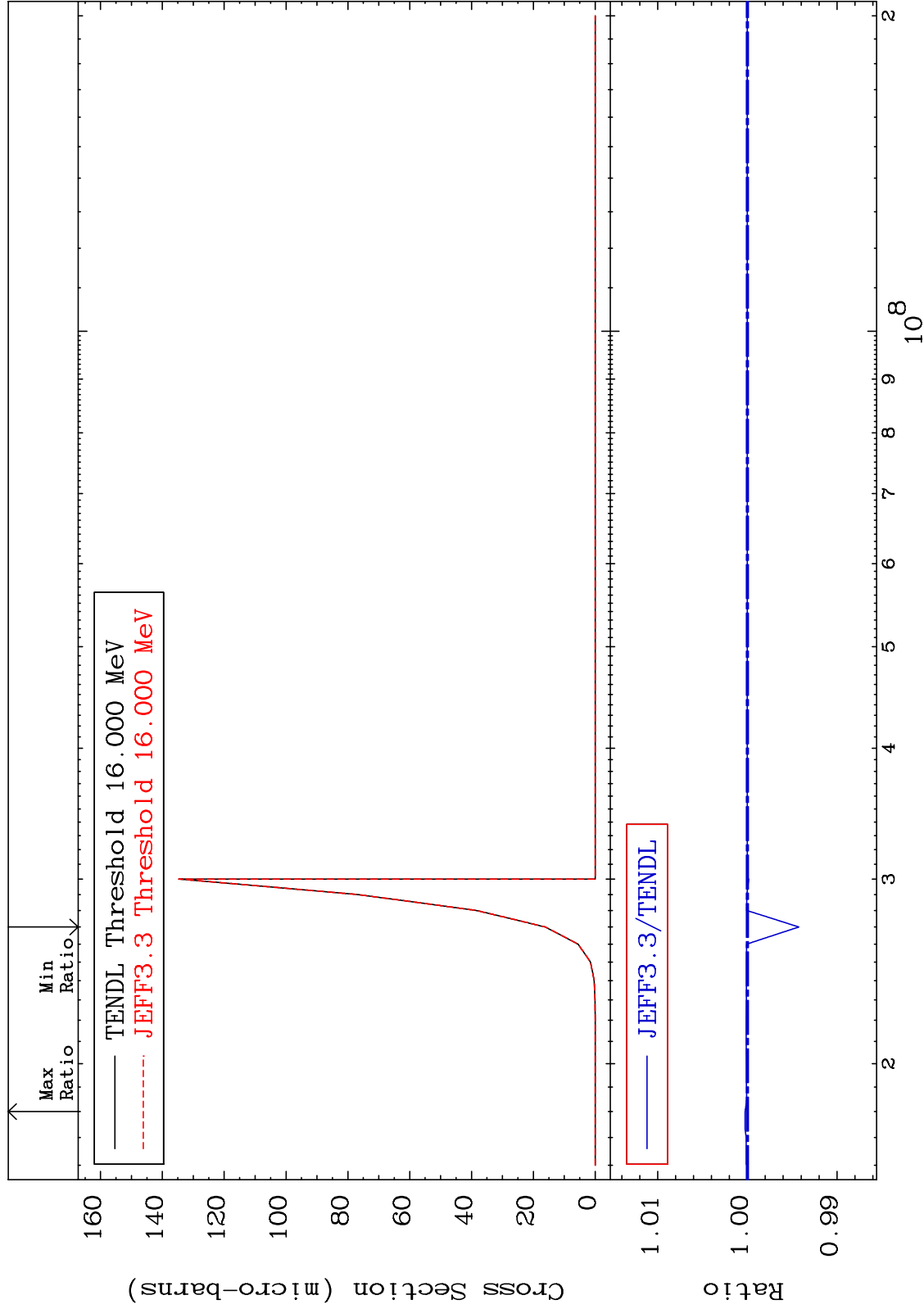


MAT 5137

(n, He-3) : 49-In-123g

51-Sb-125

Radionuclide Production Cross Section -0.575 To 0.025 %

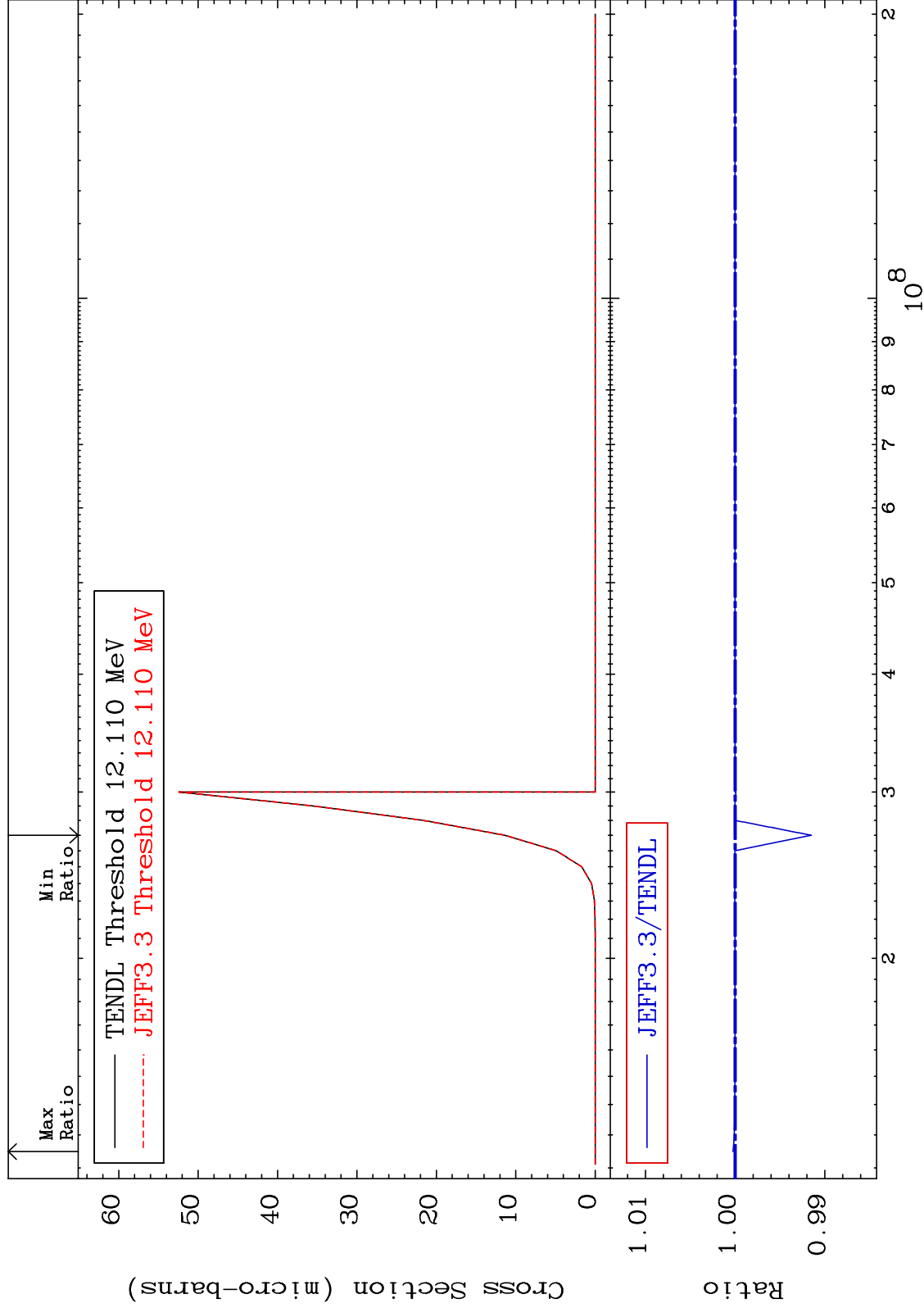


MAT 5137

(n,He-3) : 49-In-123m1

51-Sb-125

Radionuclide Production Cross Section -0.848 To 0.025 %



100

Incident Energy (eV)

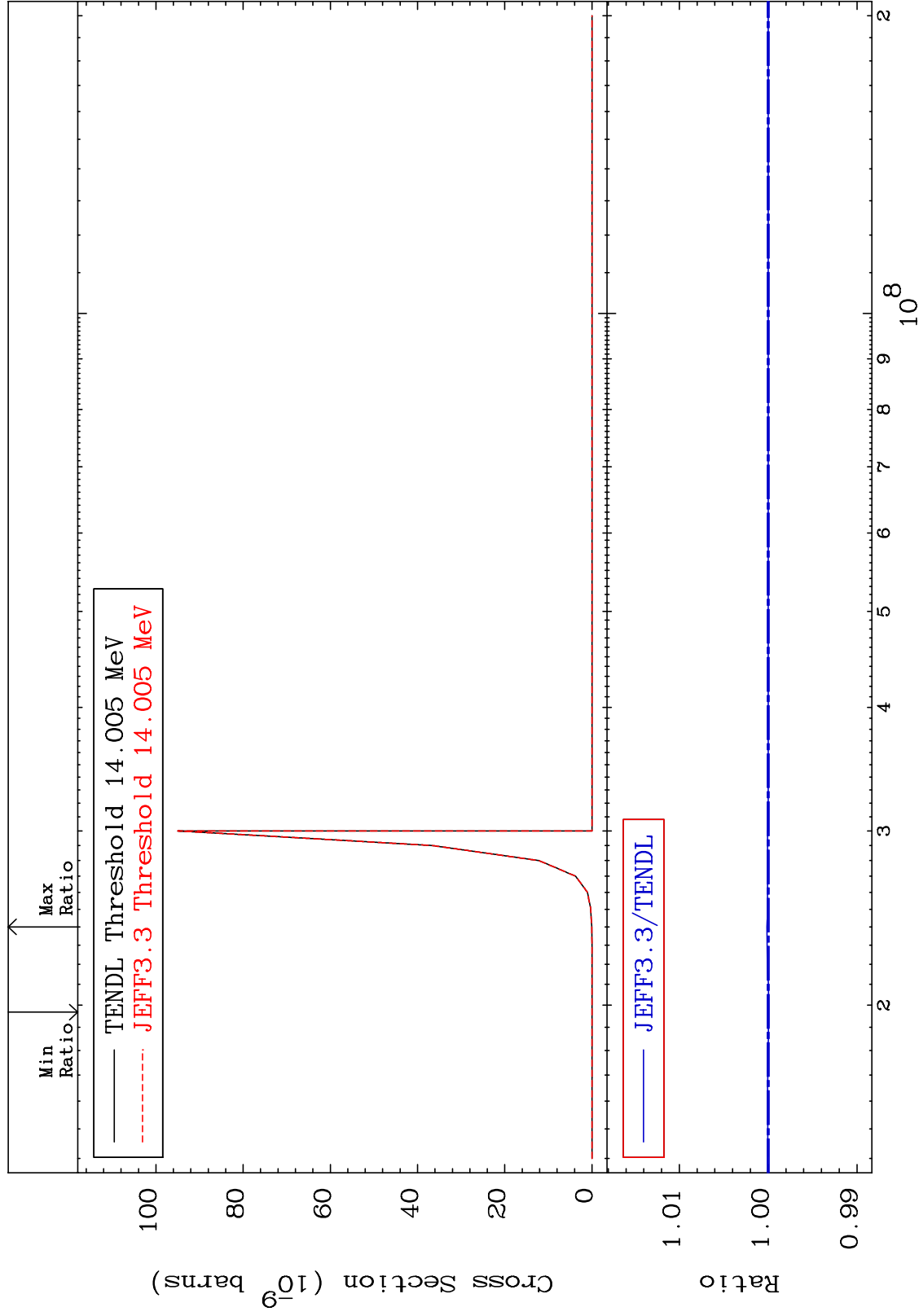
51-Sb-125

MAT 5137

(n,2p):49-In-124g

51-Sb-125

Radionuclide Production Cross Section -0.006 To 0.014 %



101

Incident Energy (eV)

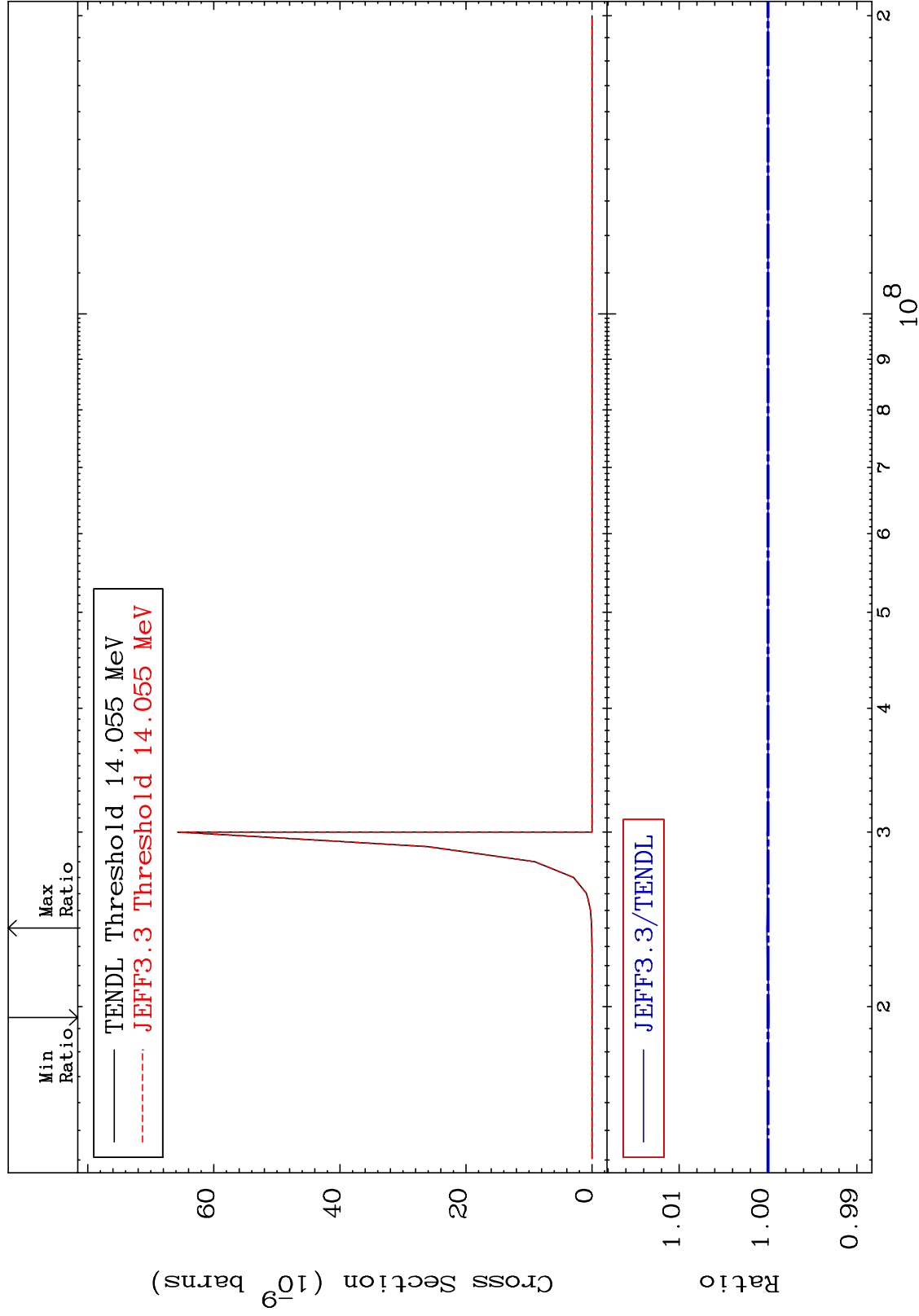
51-Sb-125

MAT 5137

(n,2p) : 49-In-124m2

51-Sb-125

Radionuclide Production Cross Section -0.008 To 0.014 %



102

Incident Energy (eV)

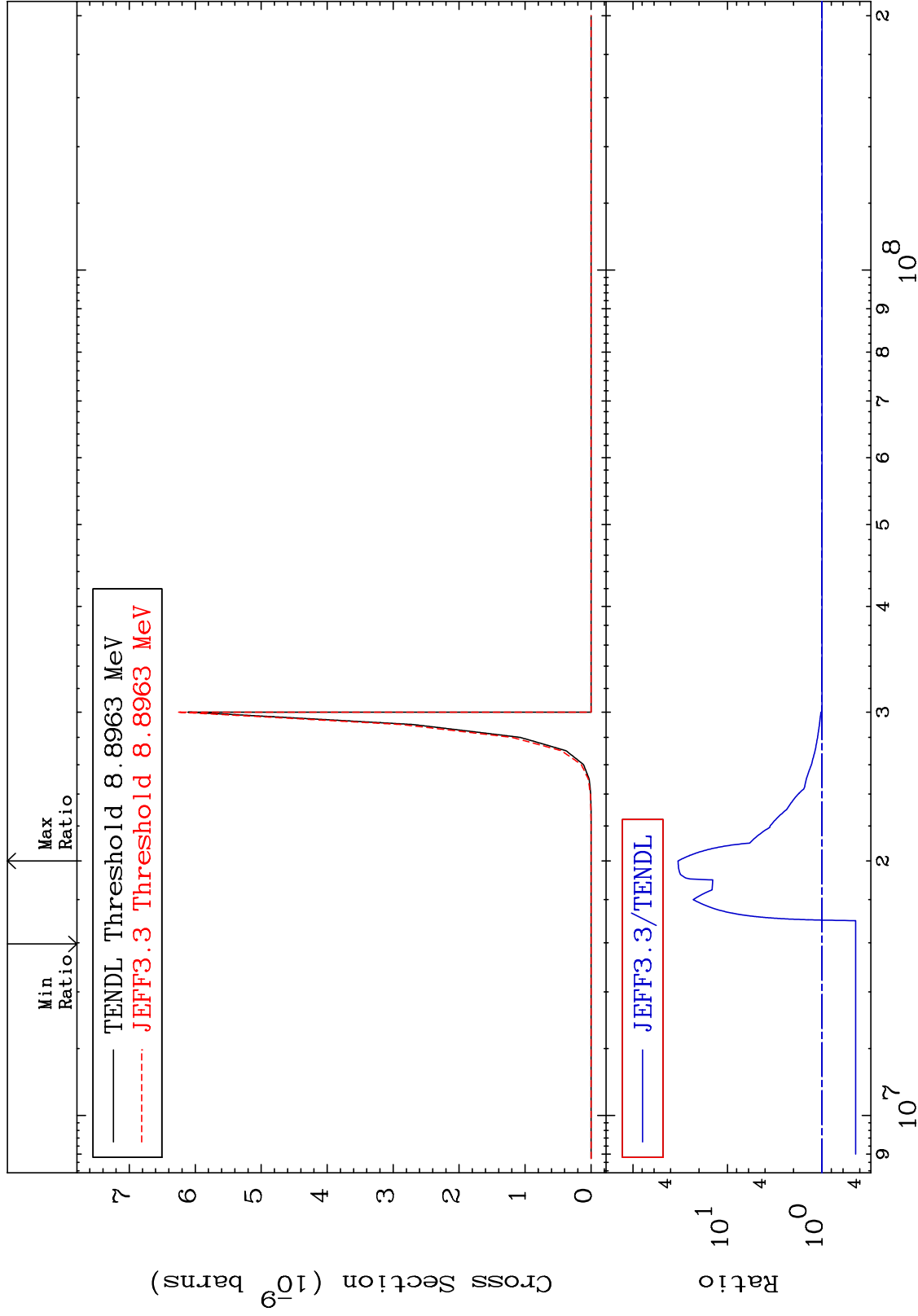
51-Sb-125

MAT 5137

(n,p) α : 48-Cd-121g

51-Sb-125

Radionuclide Production Cross Section -55.93 To 3242. %



103

Incident Energy (eV)

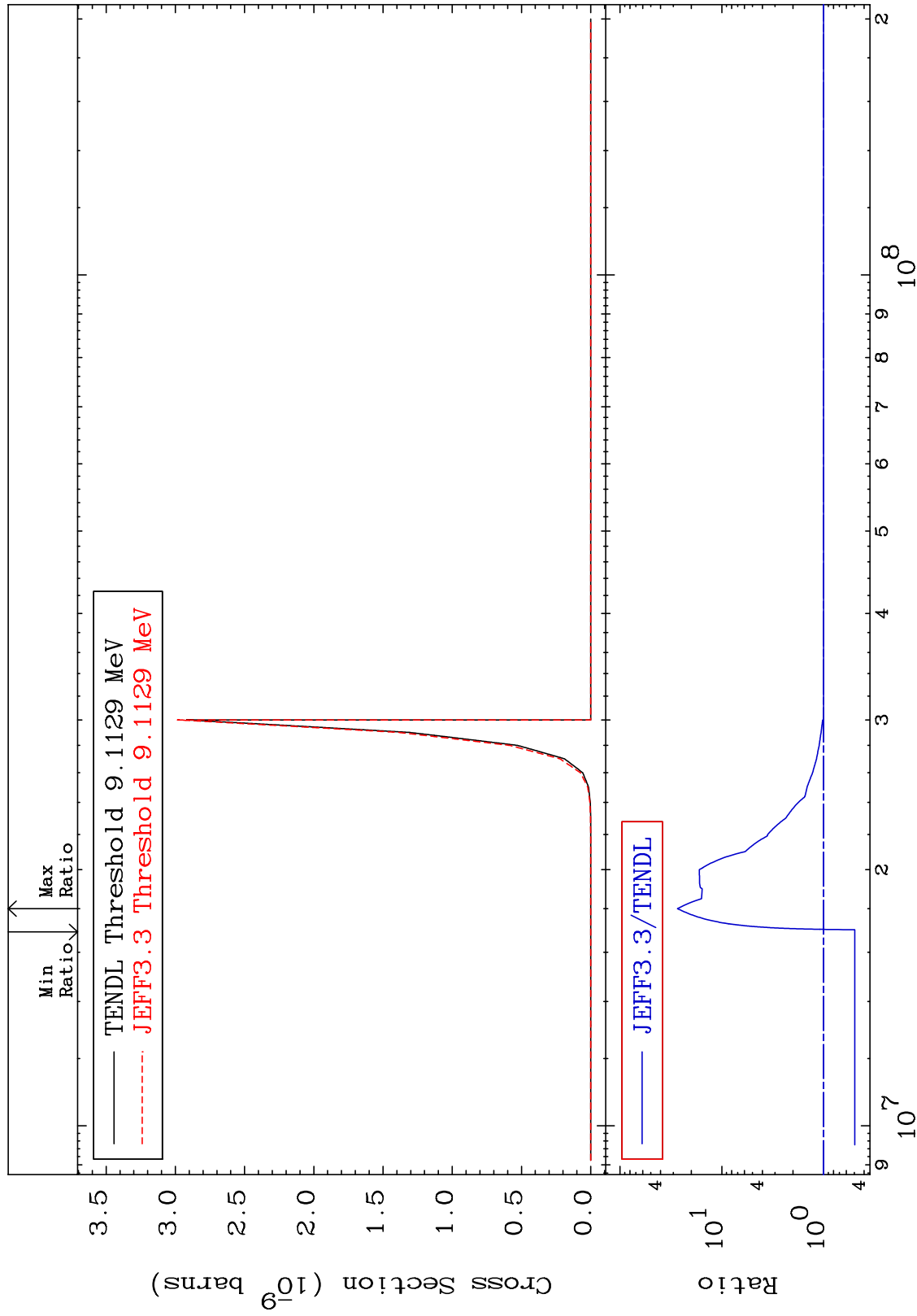
51-Sb-125

MAT 5137

(n,p) α :48-Cd-121m2

51-Sb-125

Radionuclide Production Cross Section -50.59 To 2629. %



104

Incident Energy (eV)

51-Sb-125