

Program Complot
(Version 2018-1)

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

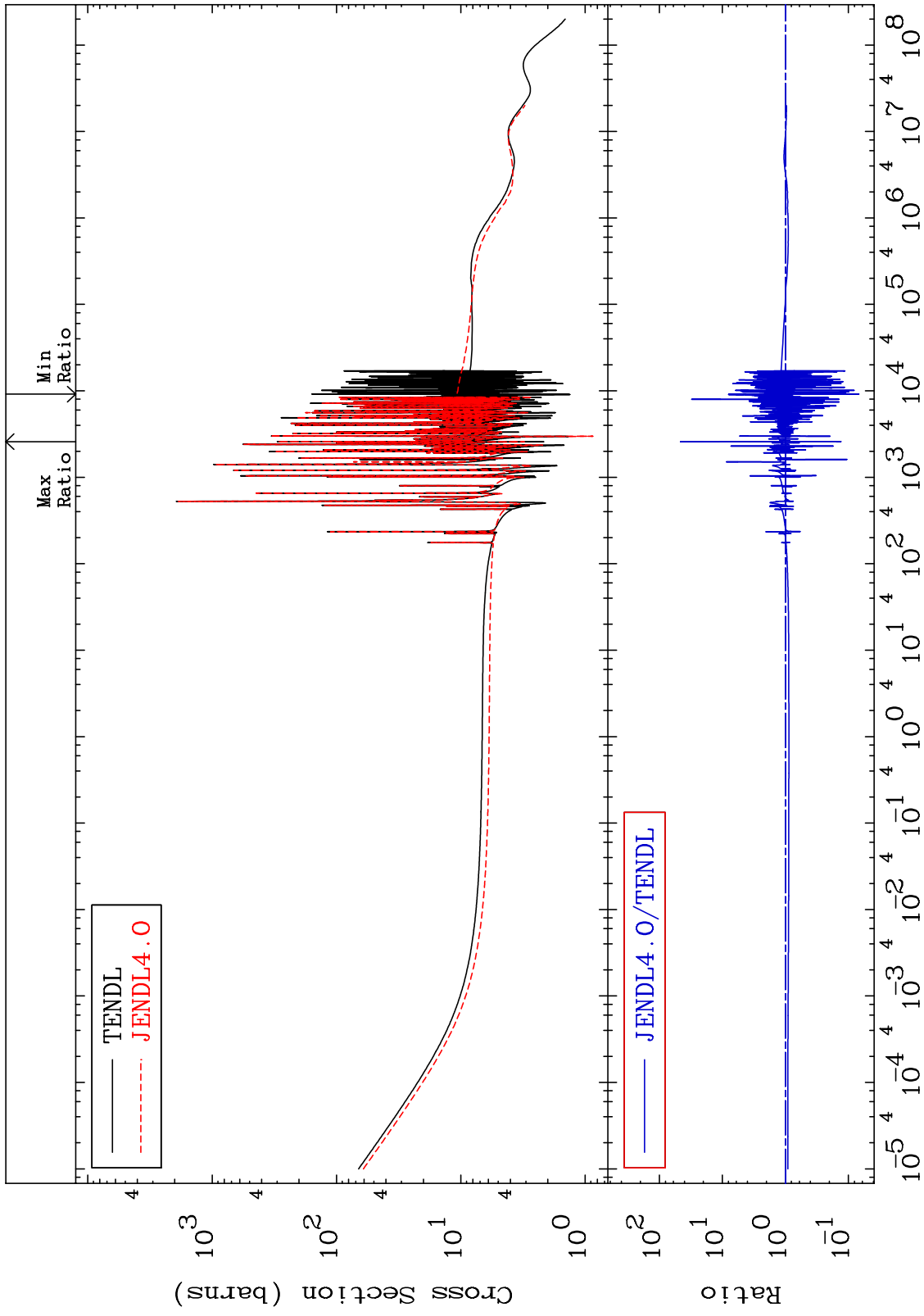
Press Mouse Button to Start

MAT 3725

Total
Cross Section

37-Rb-85

-93.20 To 4563. %



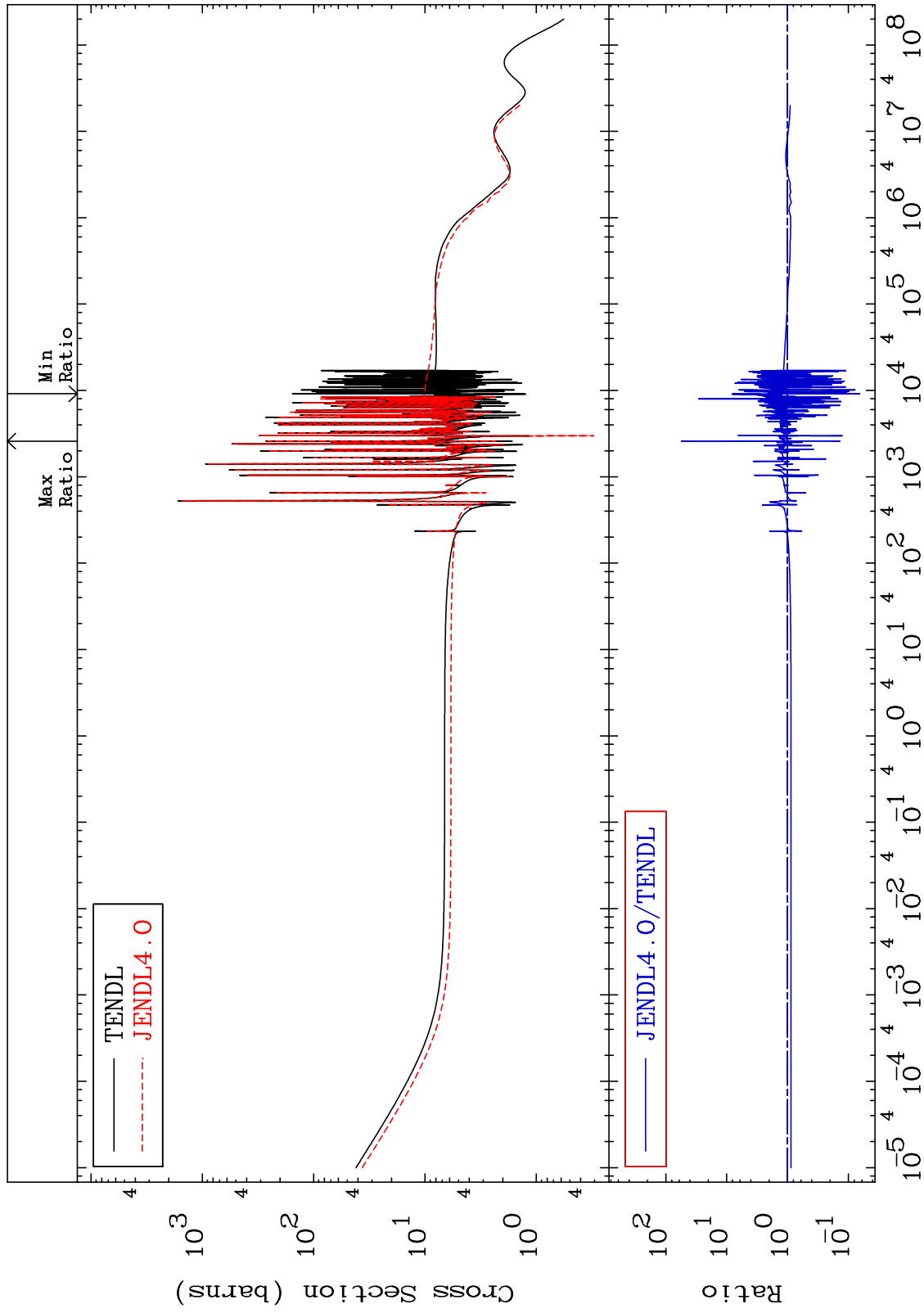
Incident Energy (eV)

37-Rb-85

MAT 3725

Elastic
Cross Section

37-Rb-85
-93.49 To 5474. %

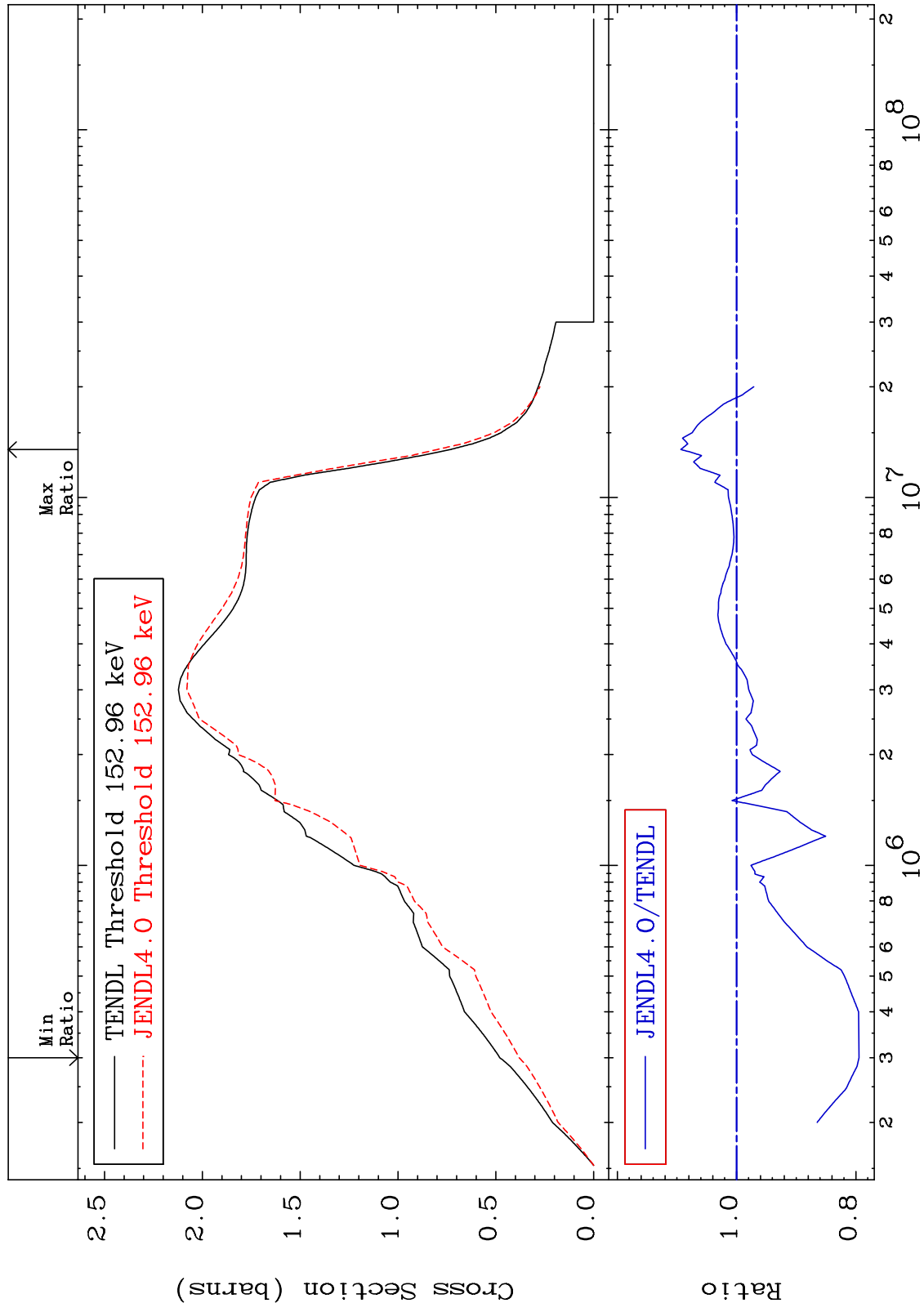


2

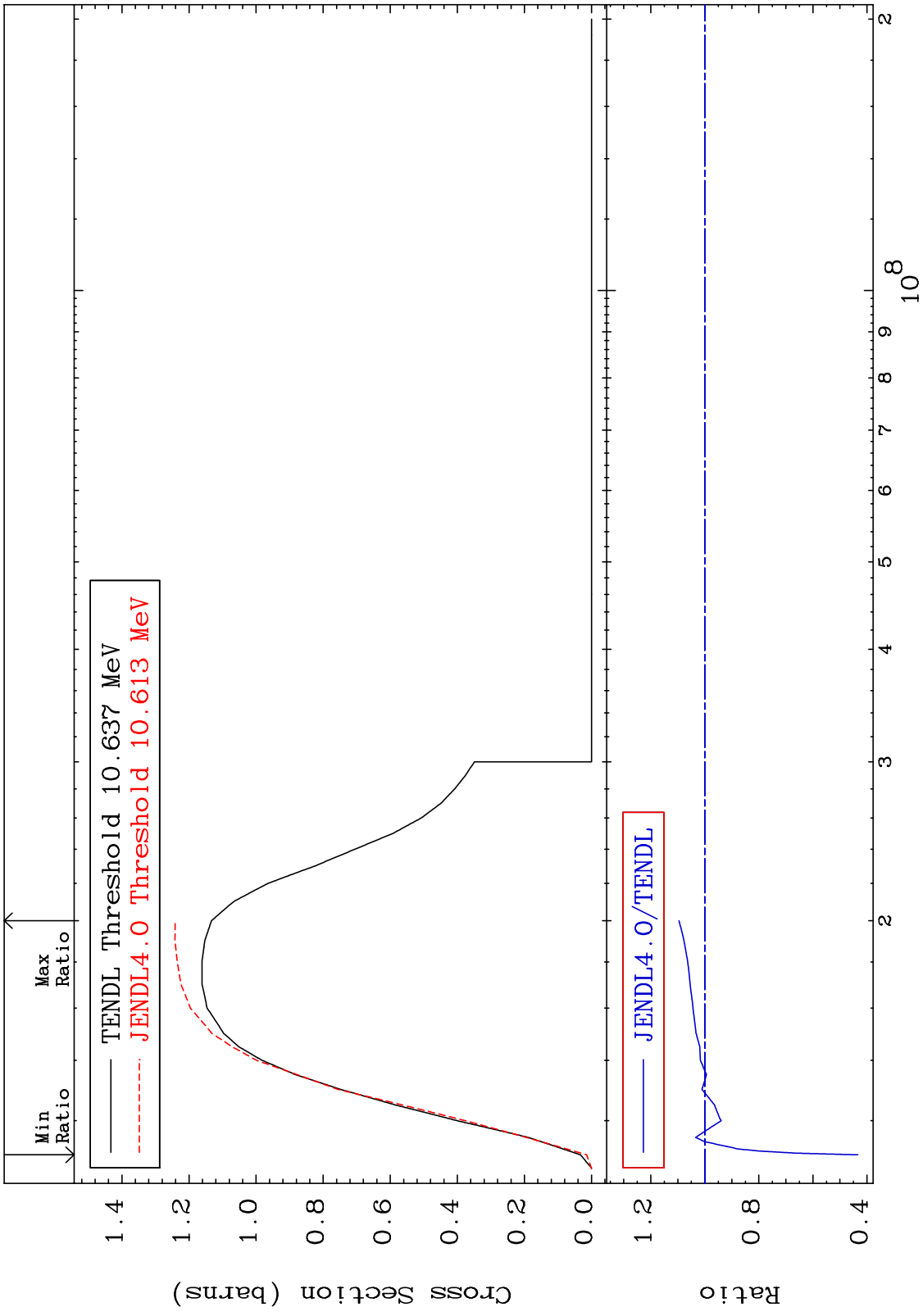
Incident Energy (eV)

37-Rb-85

MAT 3725 Inelastic Cross Section 37-Rb-85 -20.53 To 9.344 %



3 37-Rb-85



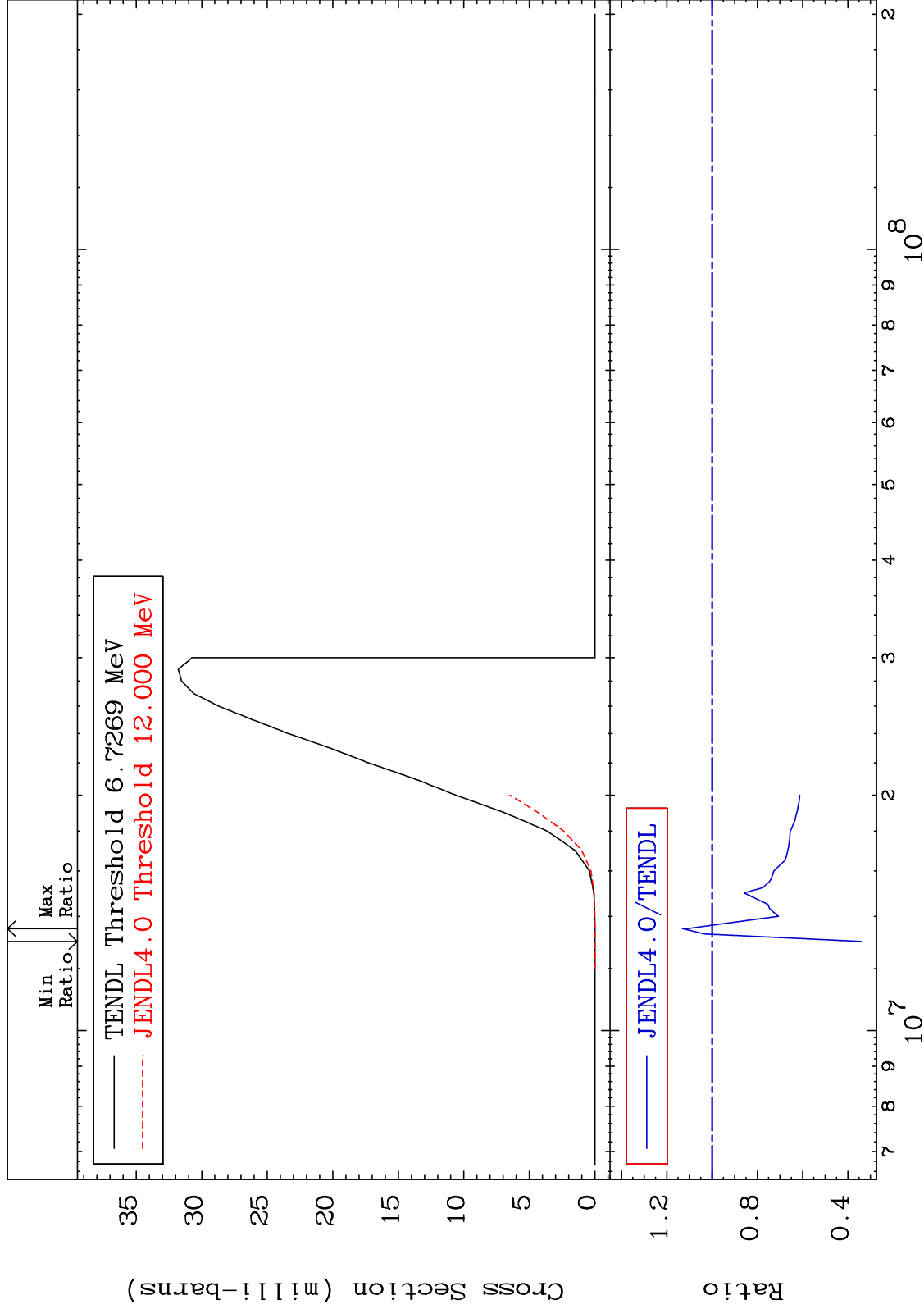
MAT 3725

(n,n') α

37-Rb-85

Cross Section

-65.95 To 13.08 %

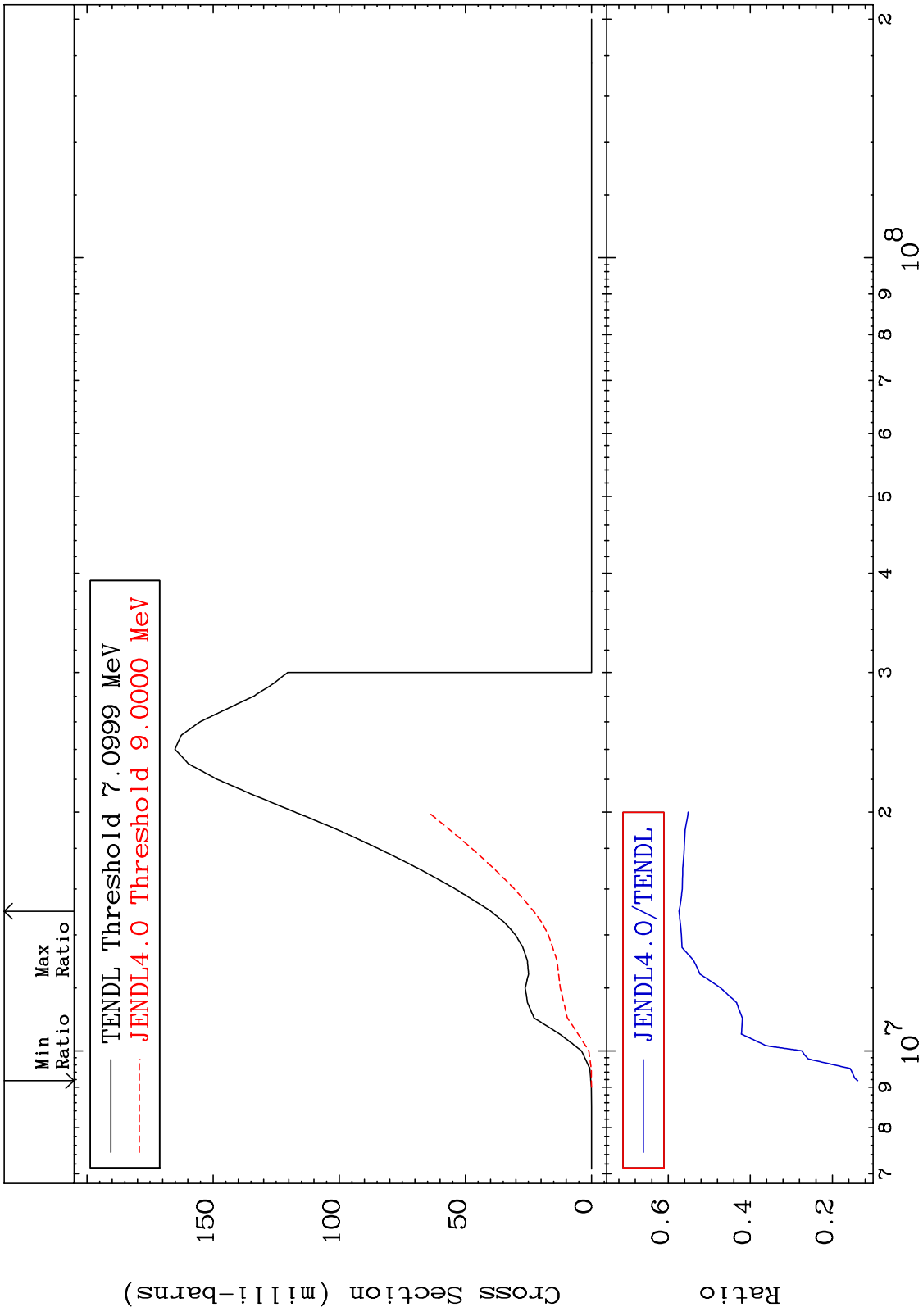


5

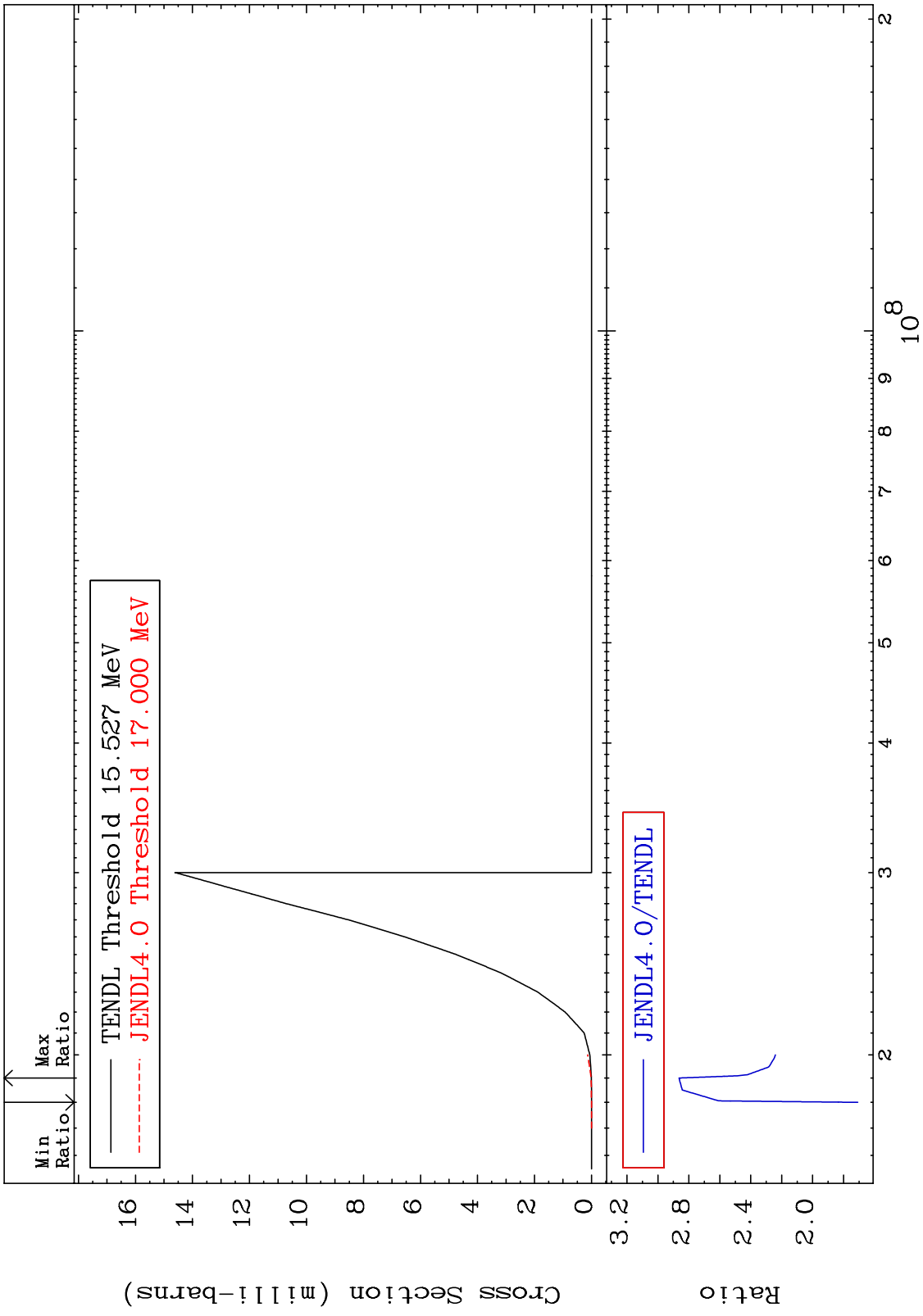
Incident Energy (eV)

37-Rb-85

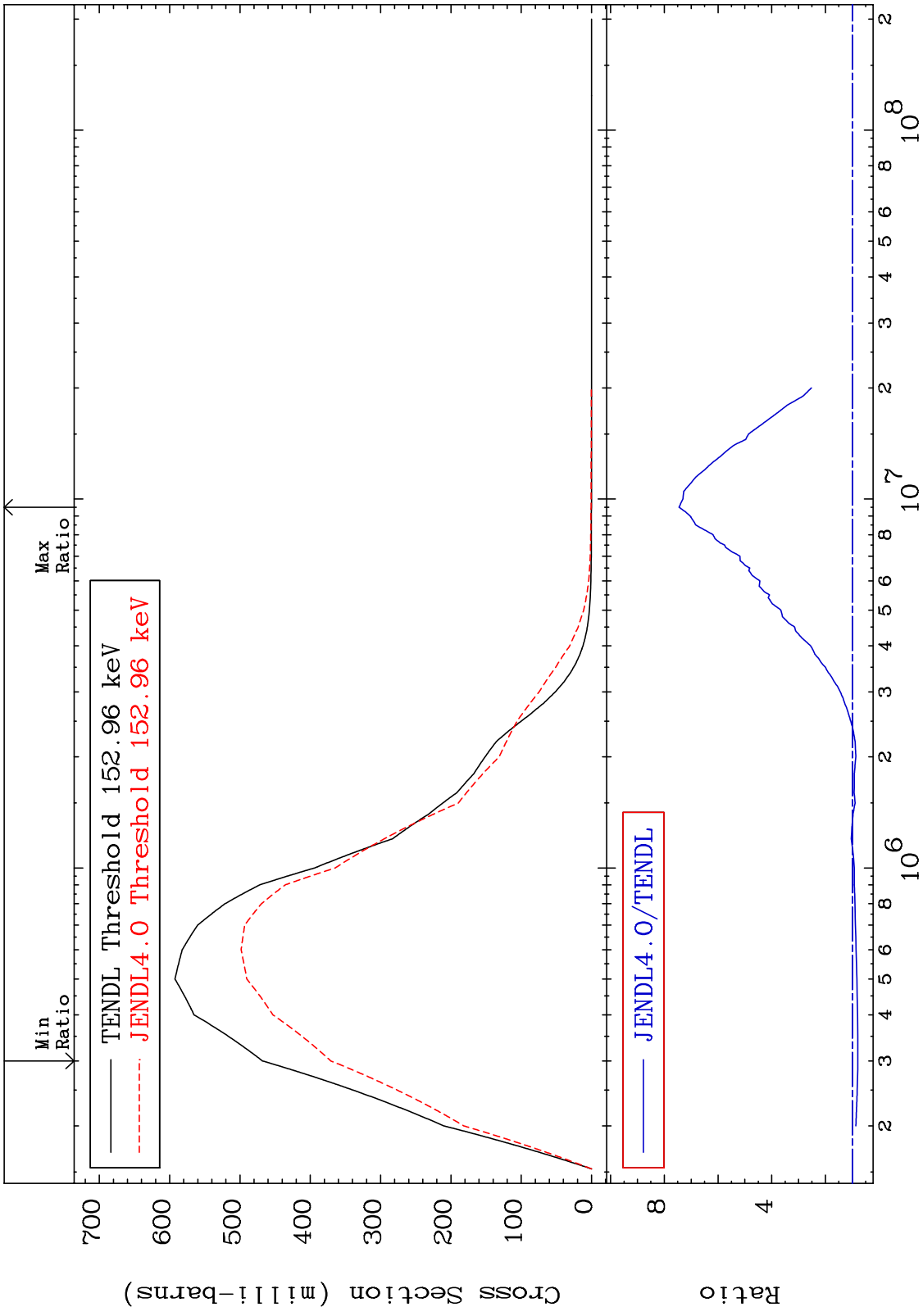
MAT 3725 (n, n') p $^{37}\text{Rb-85}$
Cross Section -86.21 To -42.64%



6 $^{37}\text{Rb-85}$

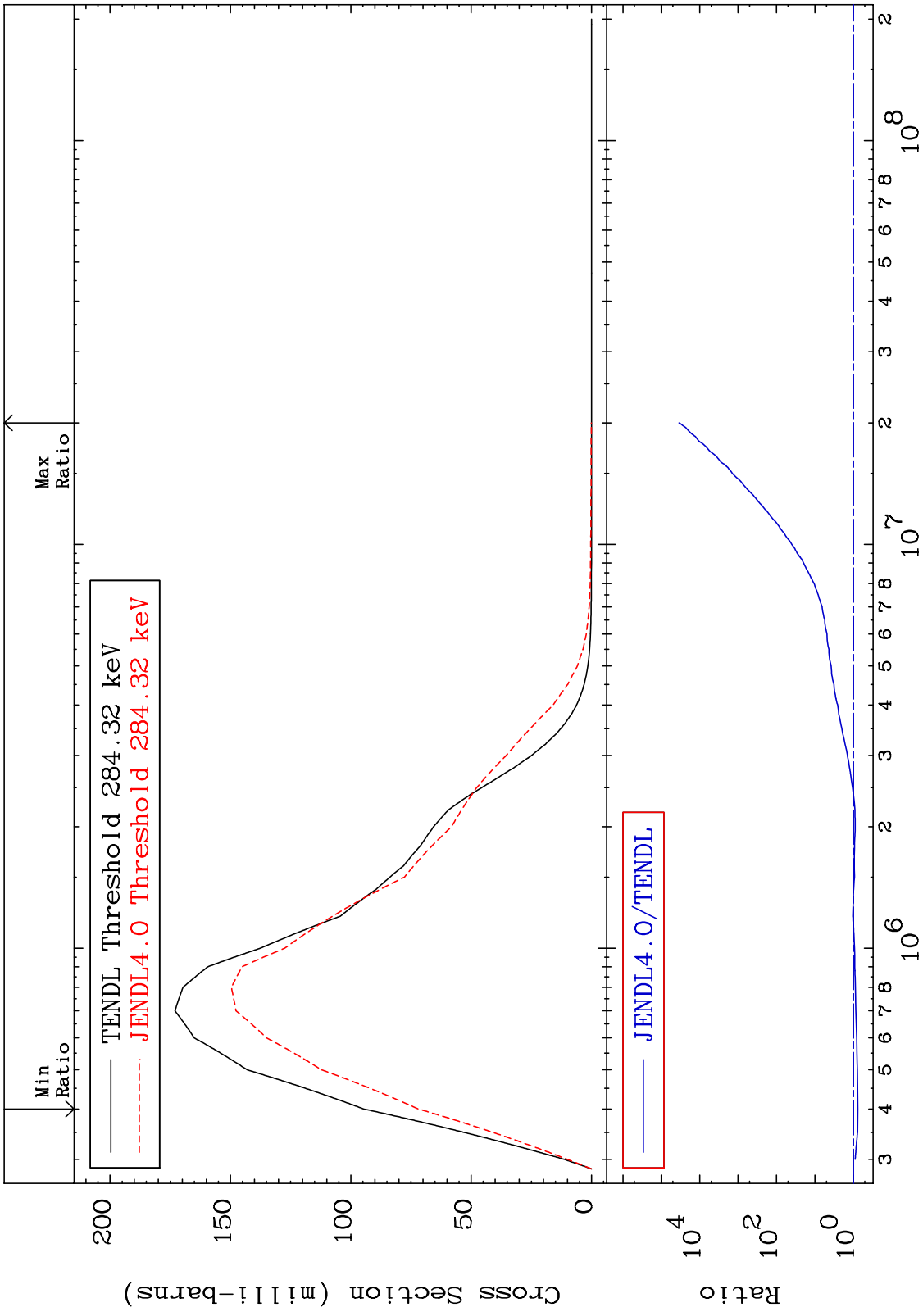


MAT 3725 MT= 51 (n,n') Level Cross Section -20.76 To 645.1 % 37-Rb-85



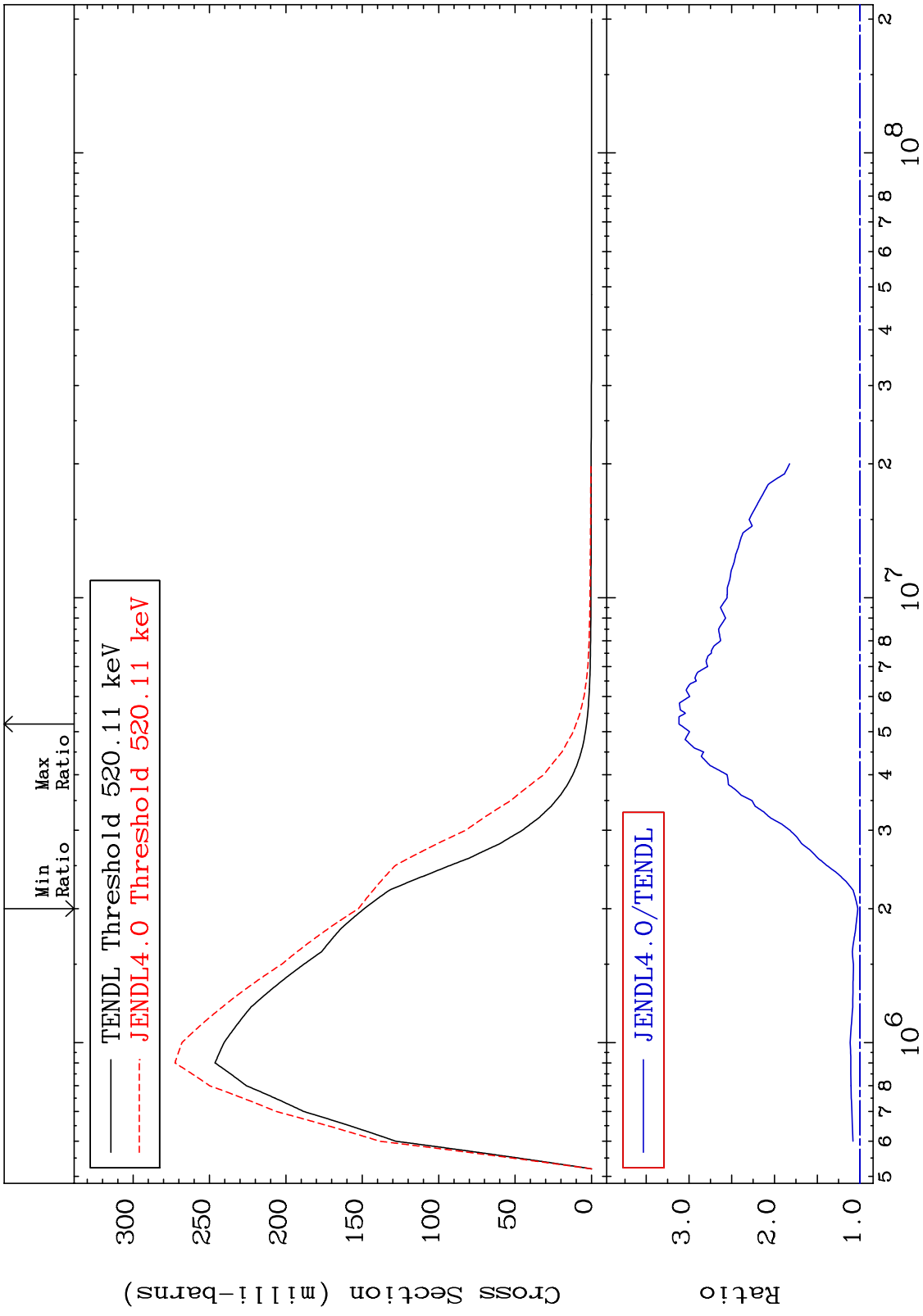
8 Incident Energy (eV) 37-Rb-85

MAT 3725 MT= 52 (n,n') Level Cross Section -24.01 To 9999. % 37-Rb-85



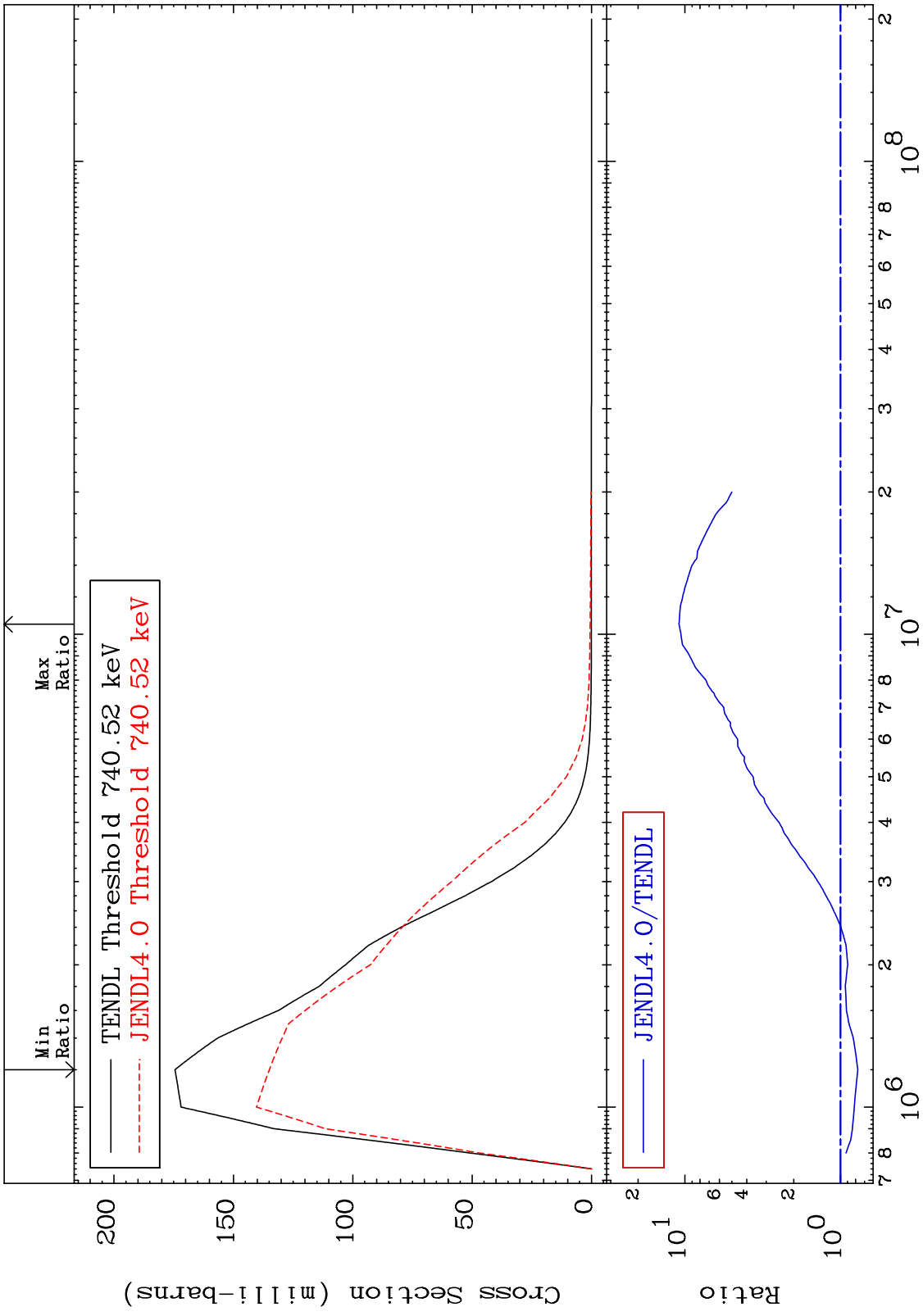
9 Incident Energy (eV) 37-Rb-85

MAT 3725 MT= 53 (n,n') Level Cross Section 37-Rb-85 2.533 To 211.7 %

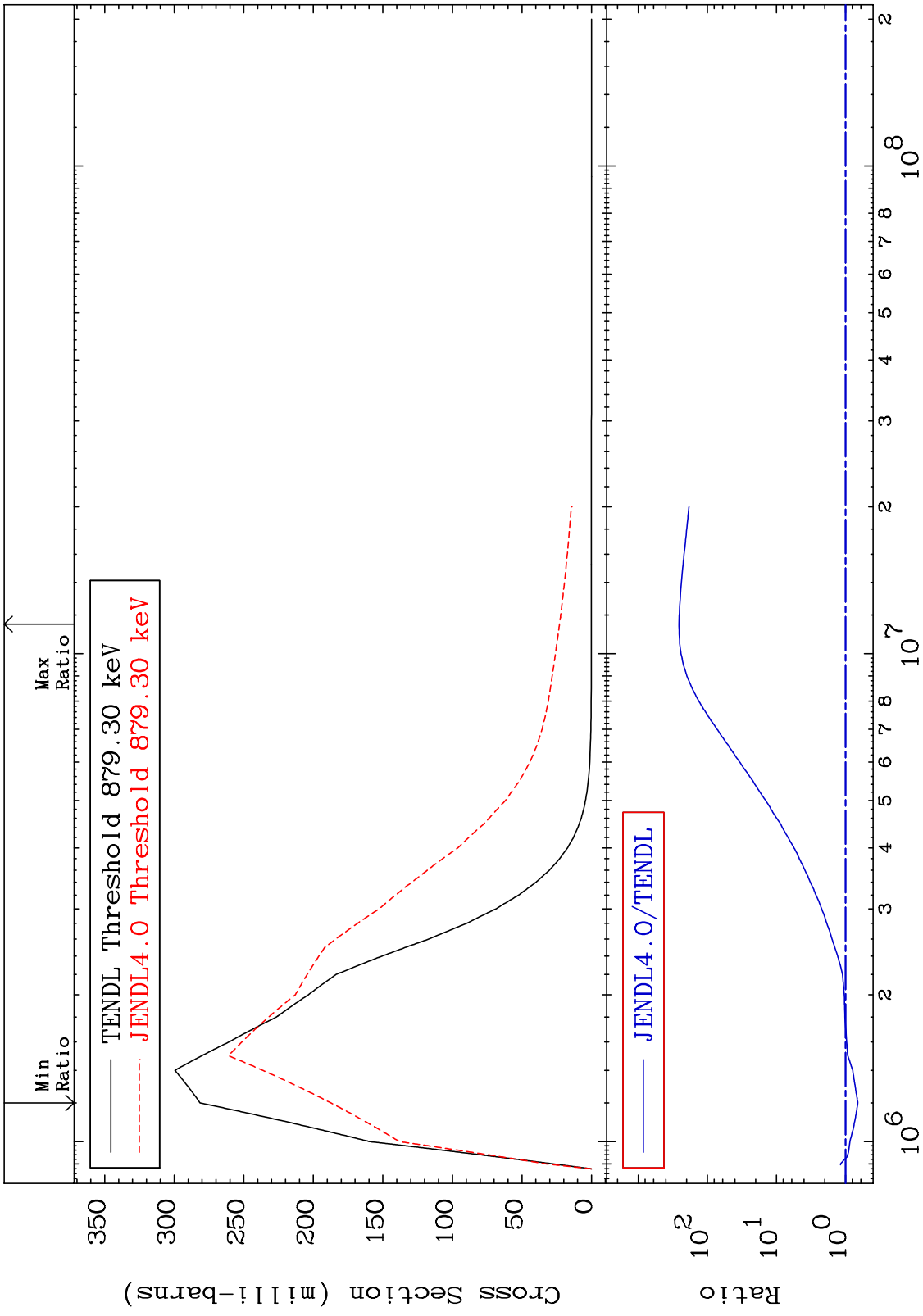


37-Rb-85

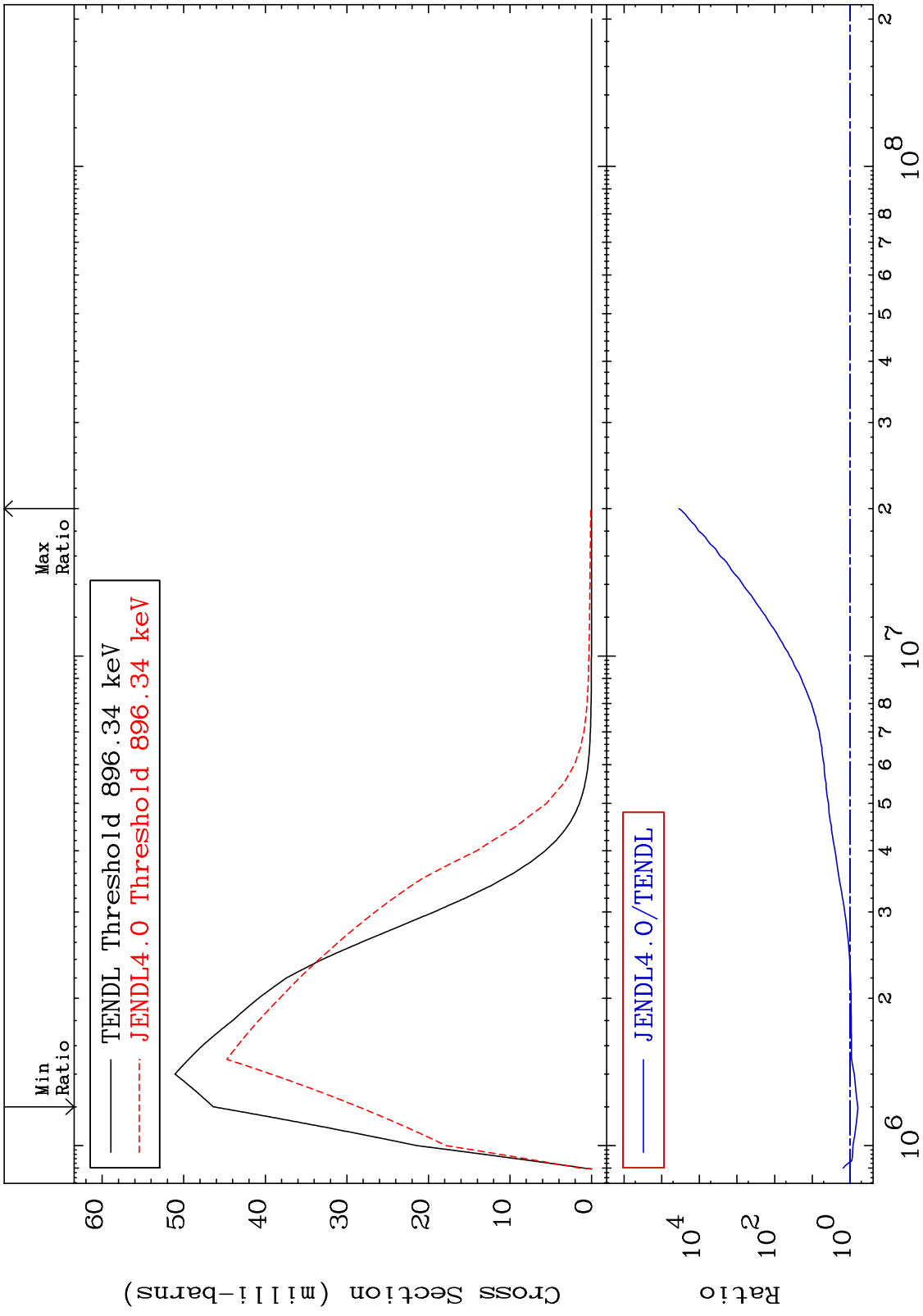
MAT 3725 MT= 54 (n,n') Level 37-Rb-85
 Cross Section -22.66 To 991.5 %



MAT 3725 MT= 55 (n,n') Level Cross Section -33.43 To 9999. % 37-Rb-85

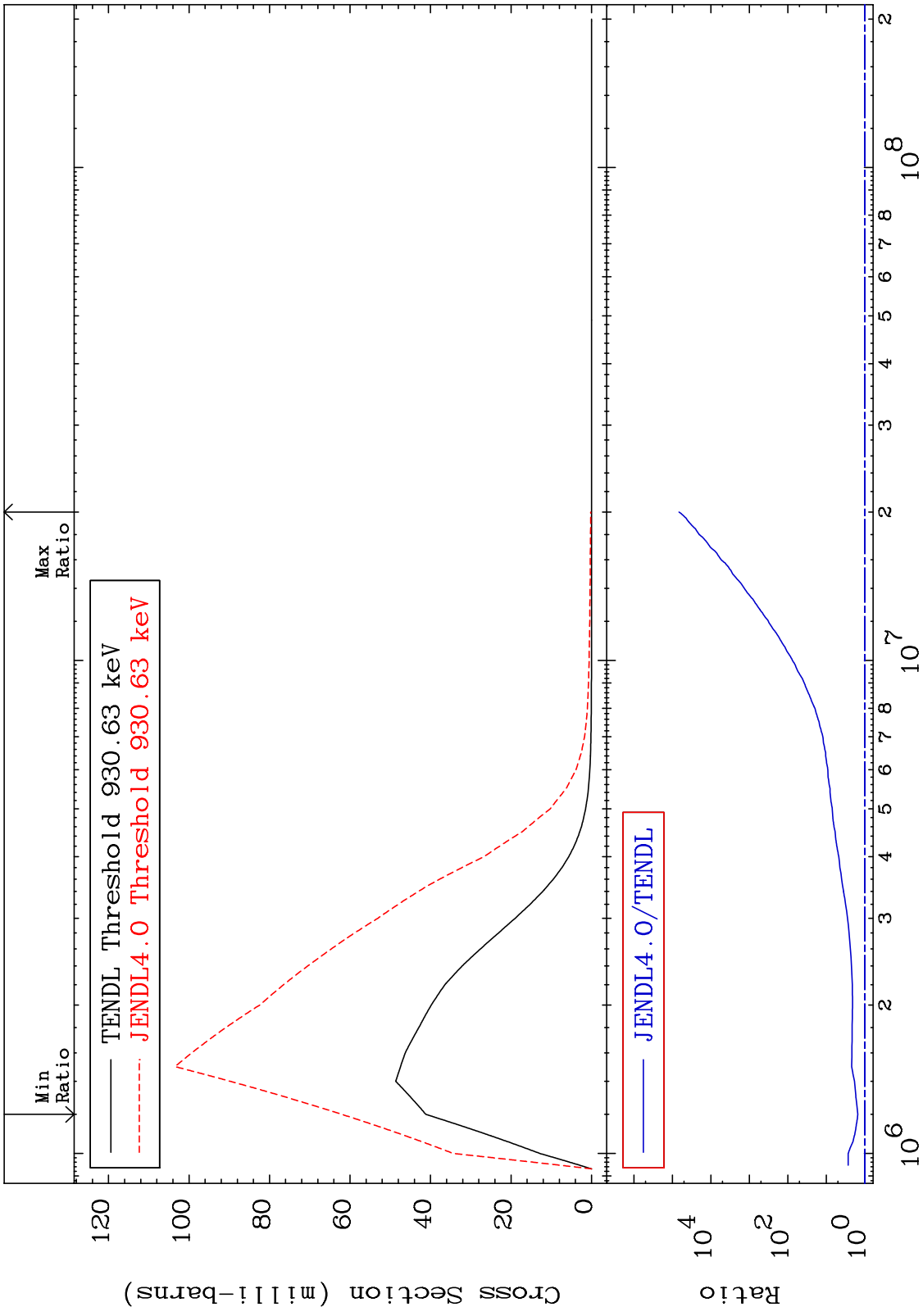


MAT 3725 MT= 56 (n,n') Level Cross Section -38.34 To 9999. % 37-Rb-85



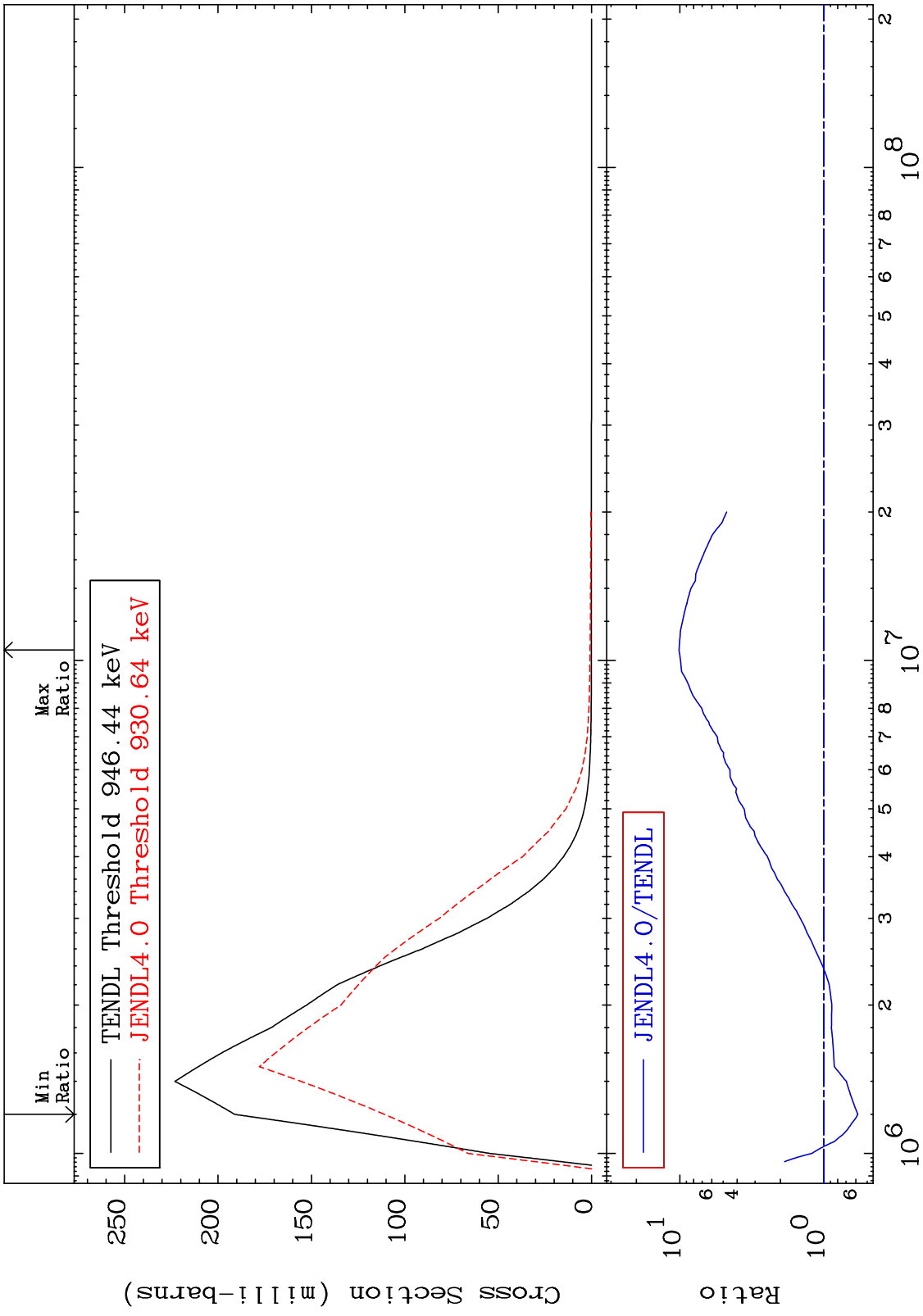
13 Incident Energy (eV) 37-Rb-85

MAT 3725 MT= 57 (n,n') Level Cross Section 50.64 To 9999. % 37-Rb-85



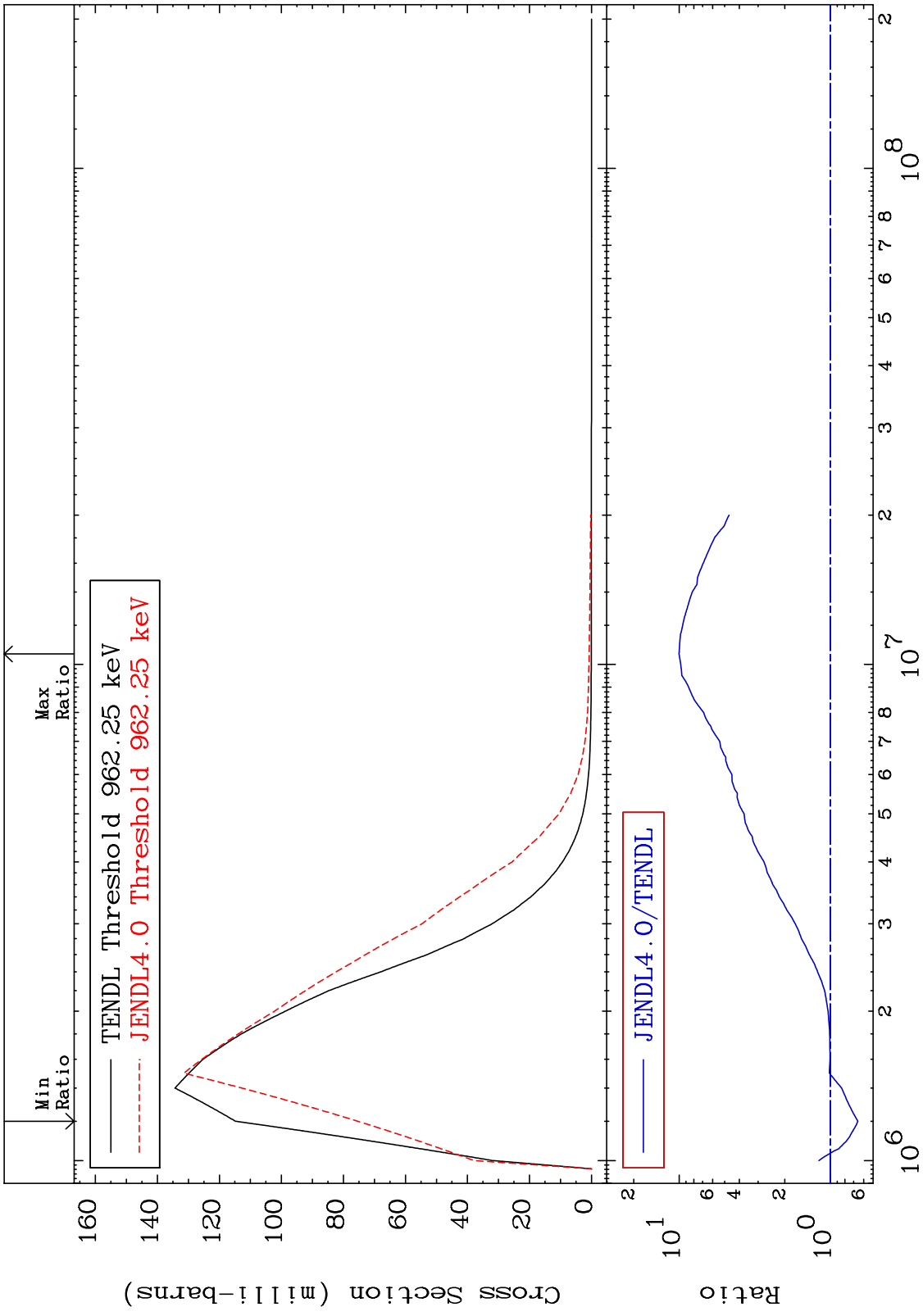
14 Incident Energy (eV) 37-Rb-85

MAT 3725 MT= 58 (n,n') Level Cross Section -42.00 To 911.7 % 37-Rb-85



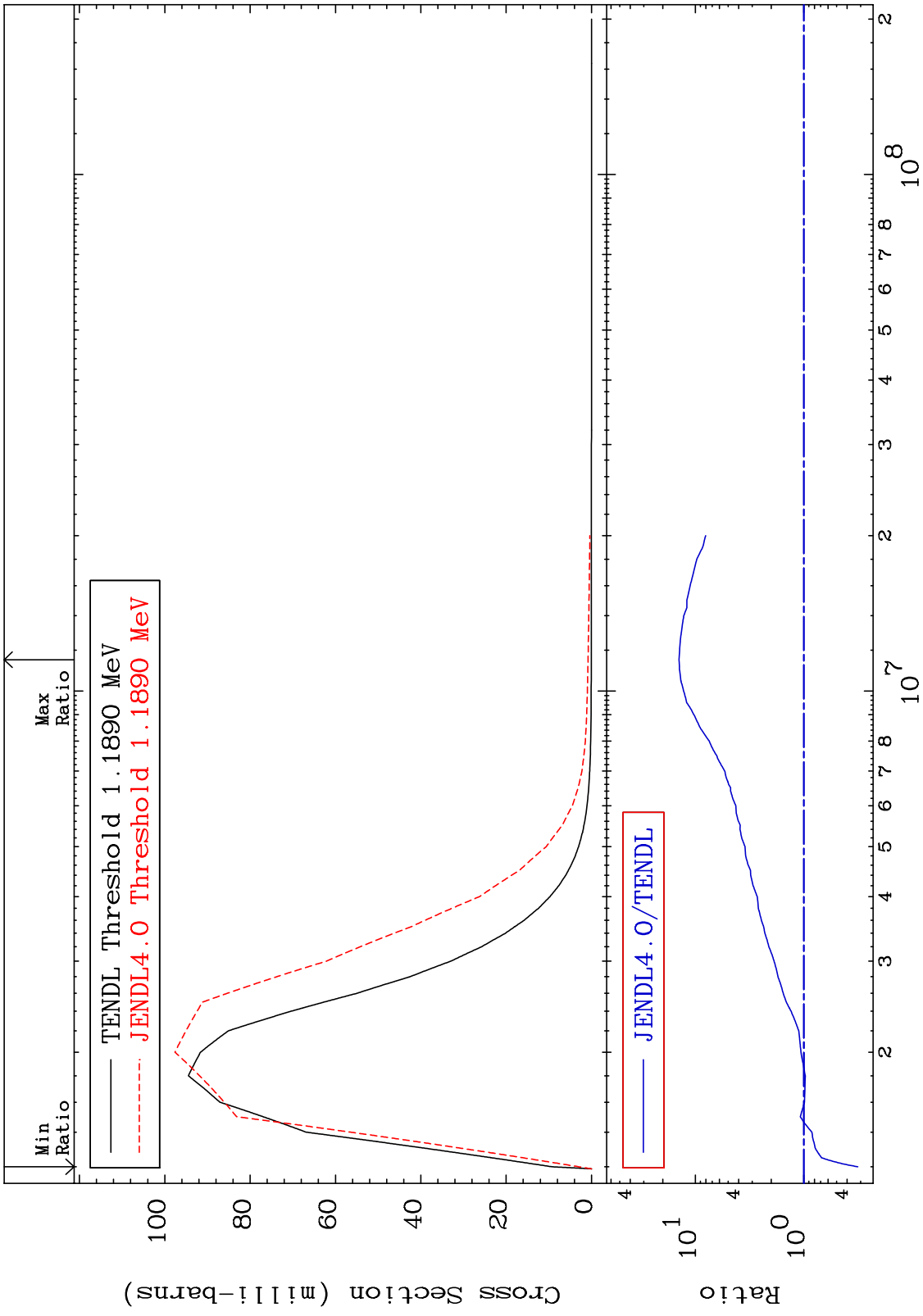
15 Incident Energy (eV) 37-Rb-85

MAT 3725 MT= 59 (n,n') Level Cross Section -34.34 To 901.3 % 37-Rb-85

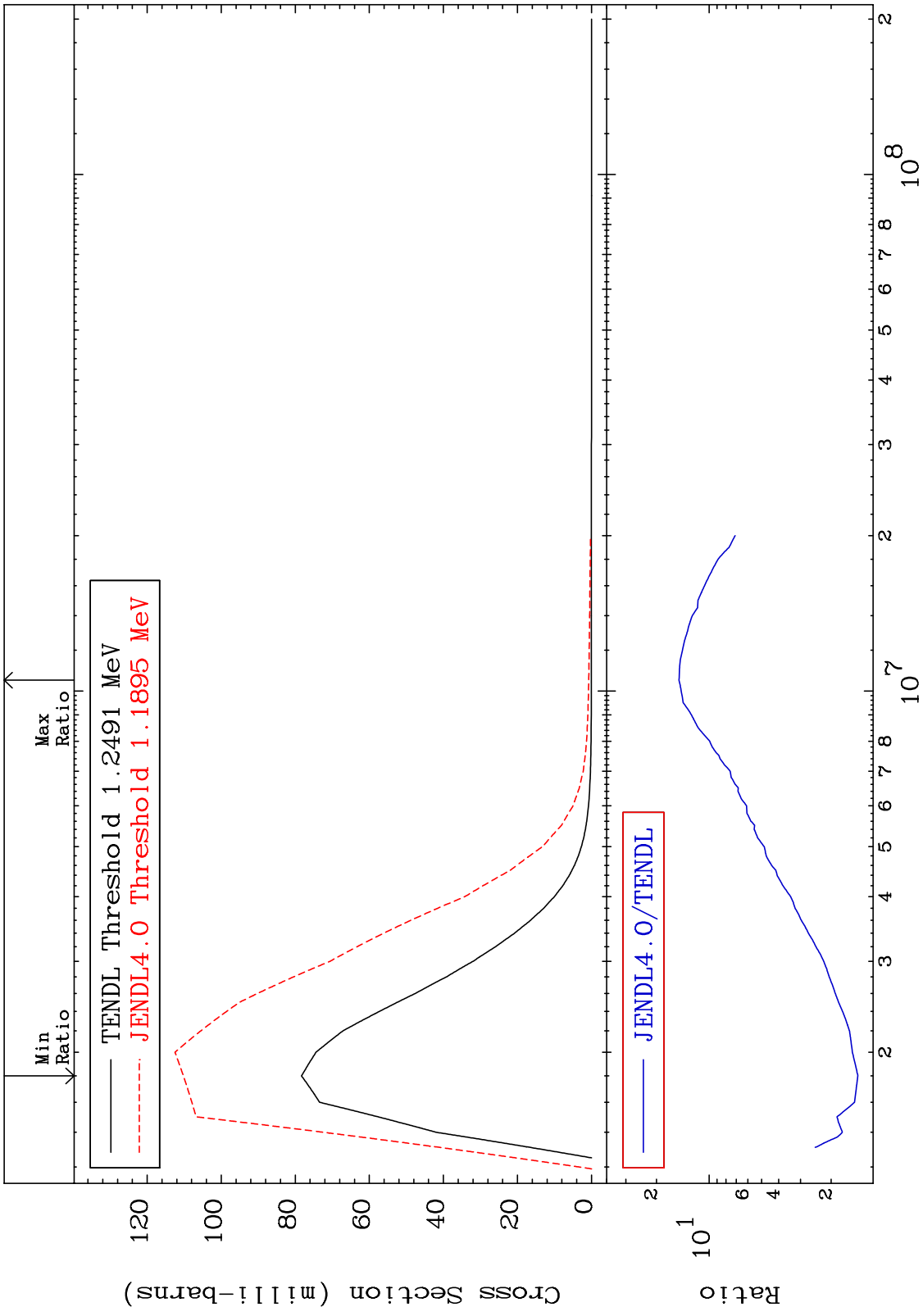


16 Incident Energy (eV) 37-Rb-85

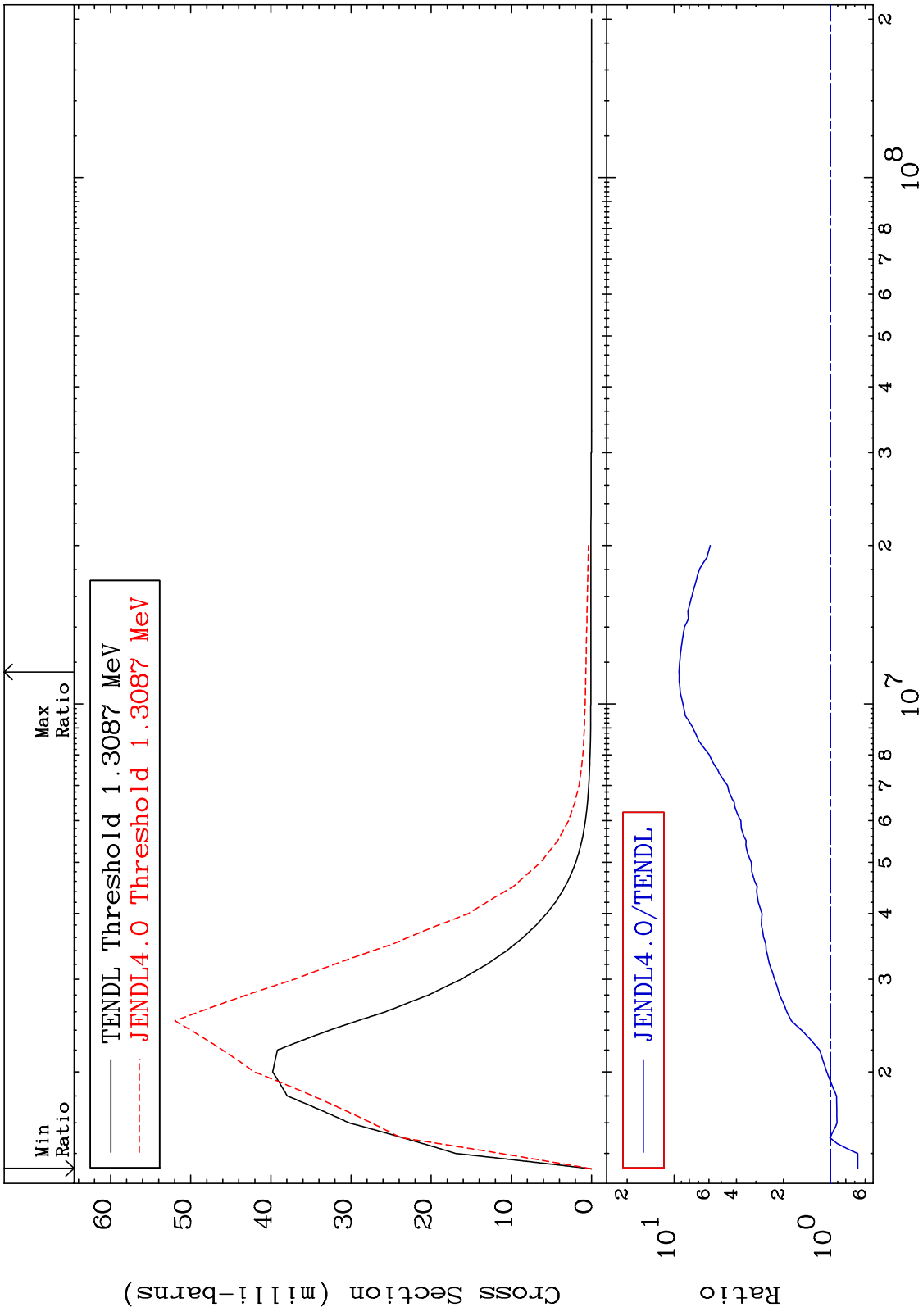
MAT 3725 MT= 60 (n,n') Level Cross Section 37-Rb-85
 -68.19 To 1317. %



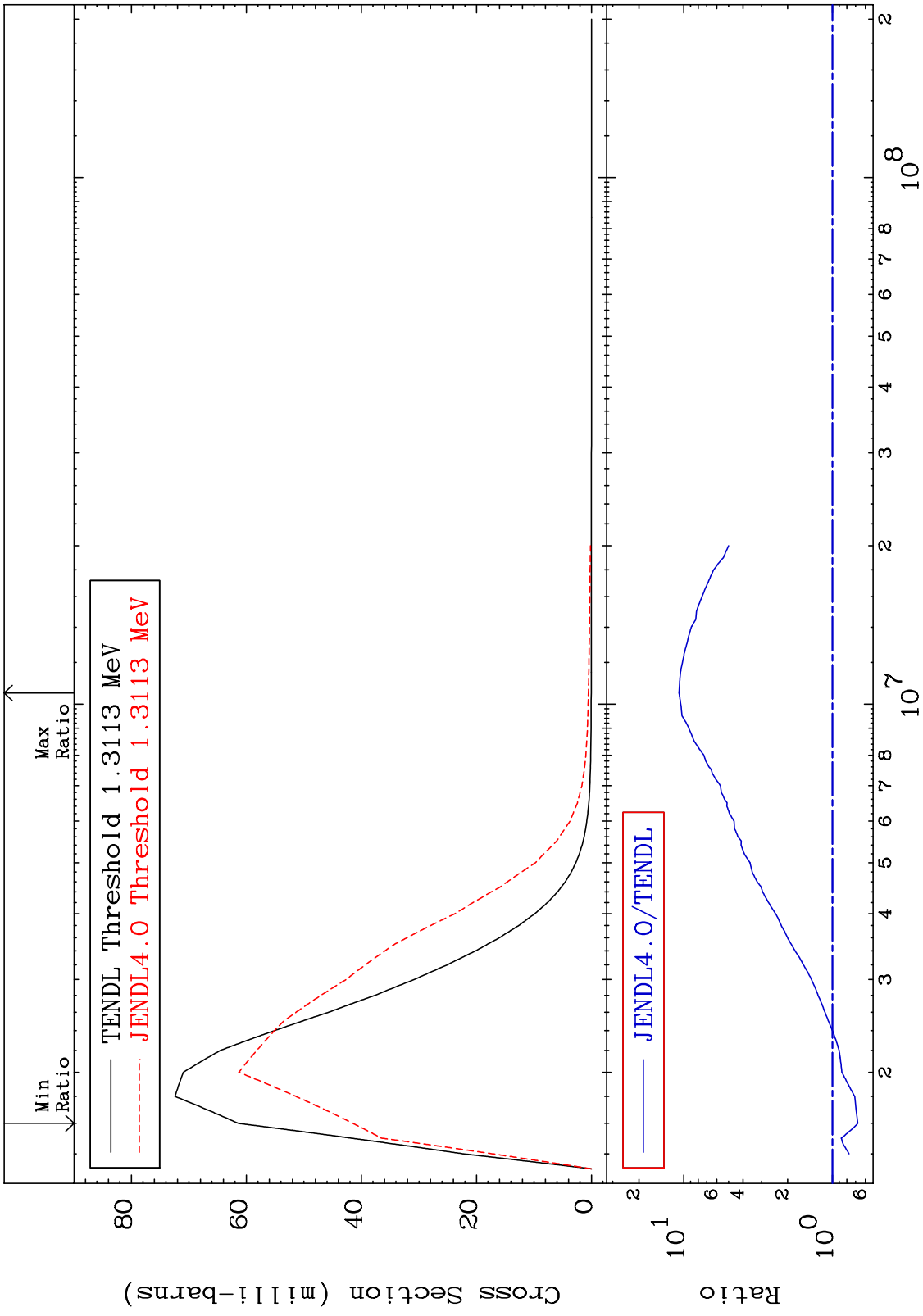
MAT 3725 MT= 61 (n,n') Level Cross Section 37-Rb-85 40.74 To 1387. %



MAT 3725 MT= 62 (n,n') Level Cross Section -33.09 To 831.2 % 37-Rb-85



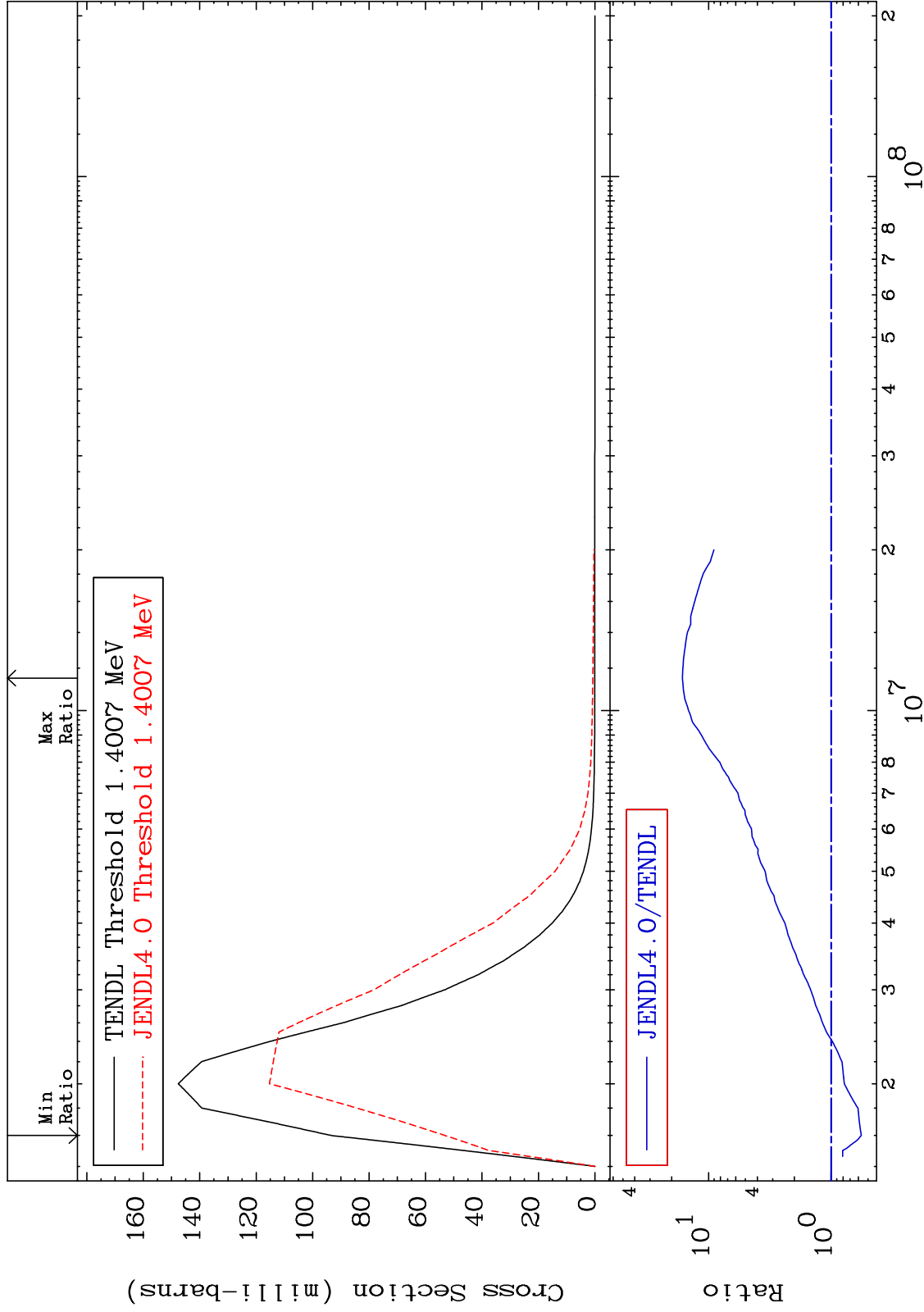
MAT 3725 MT= 63 (n,n') Level Cross Section -32.46 To 975.2 % 37-Rb-85



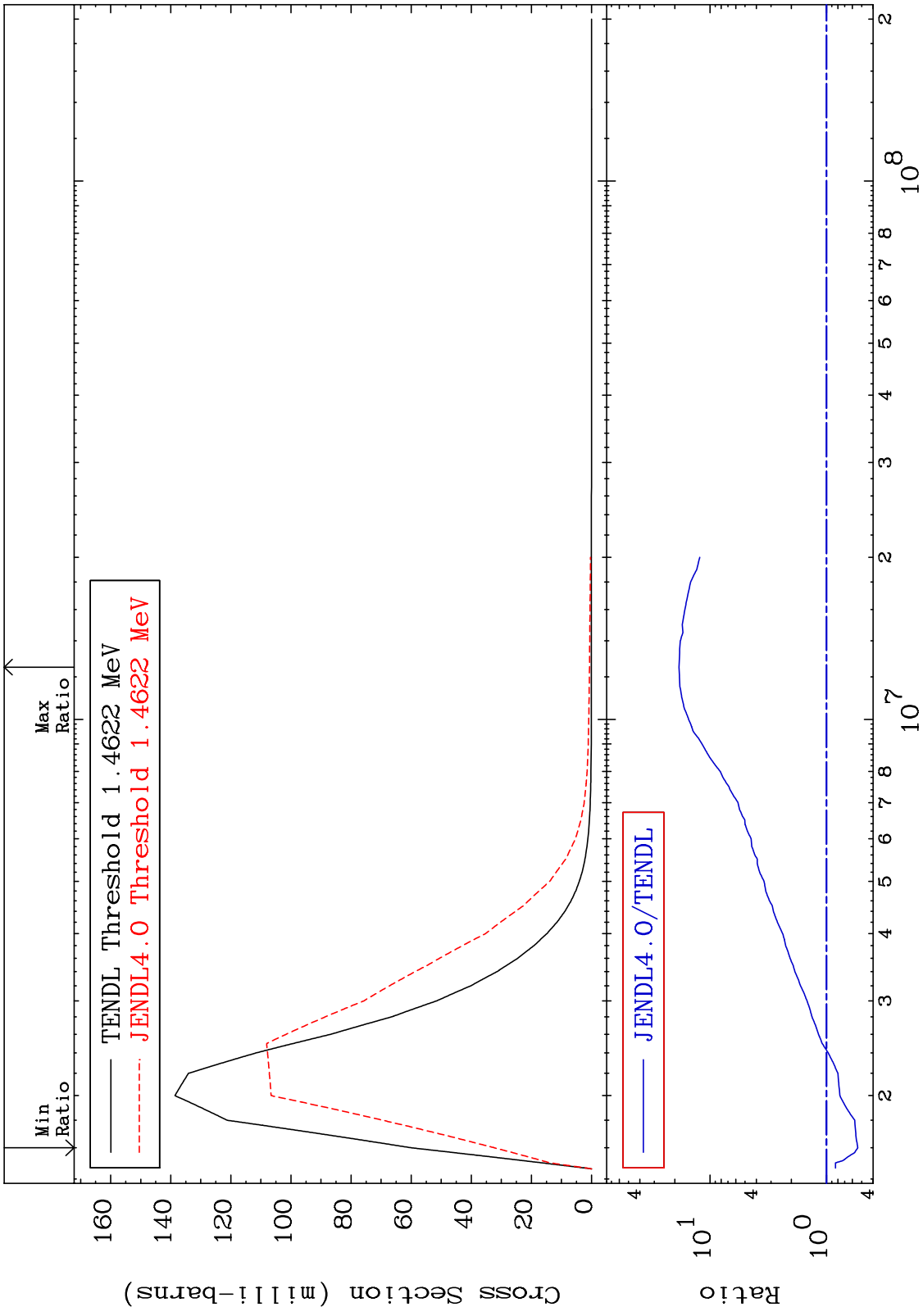
MAT 3725

MT= 64 (n,n') Level
Cross Section

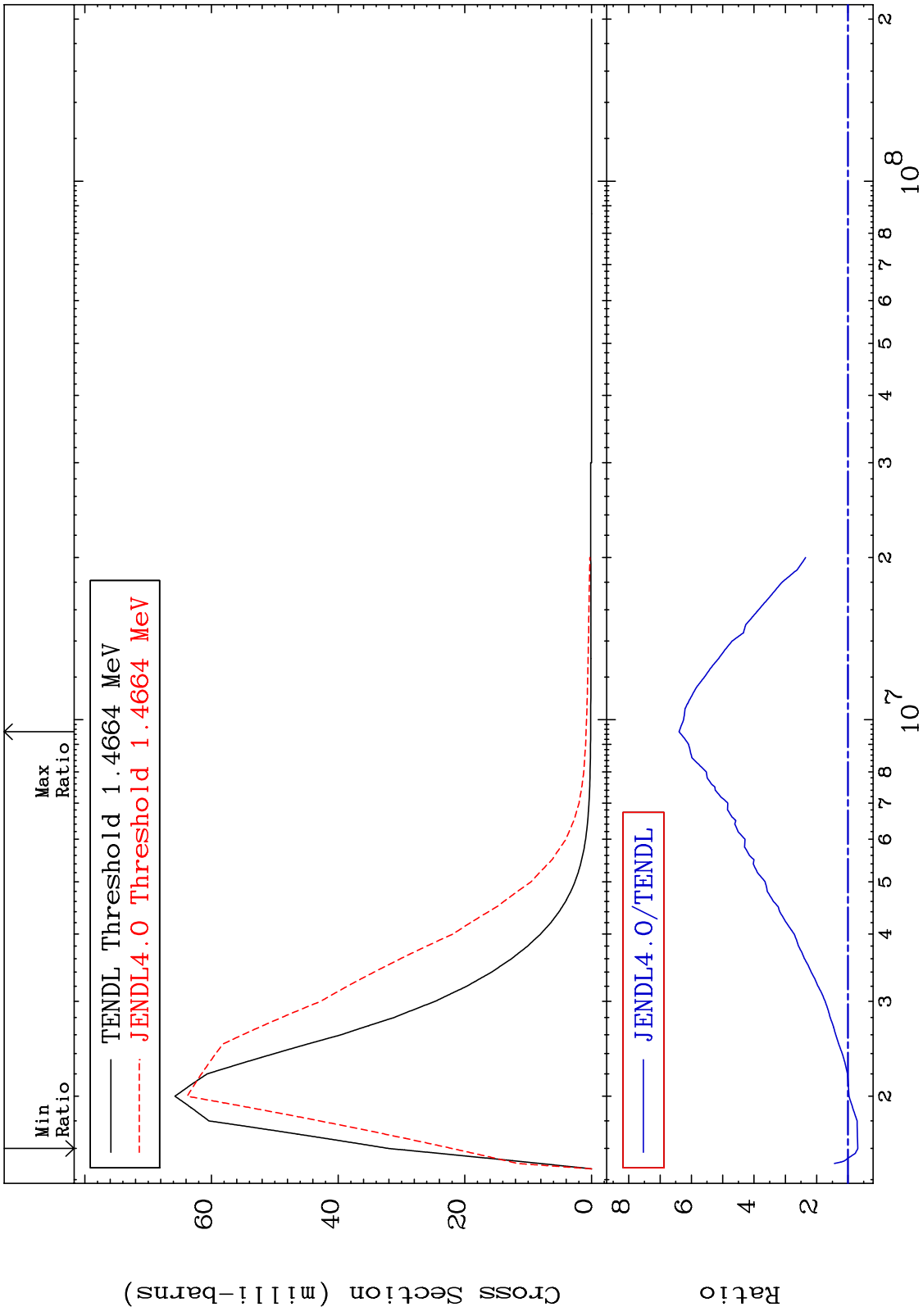
37-Rb-85
-43.19 To 1532. %



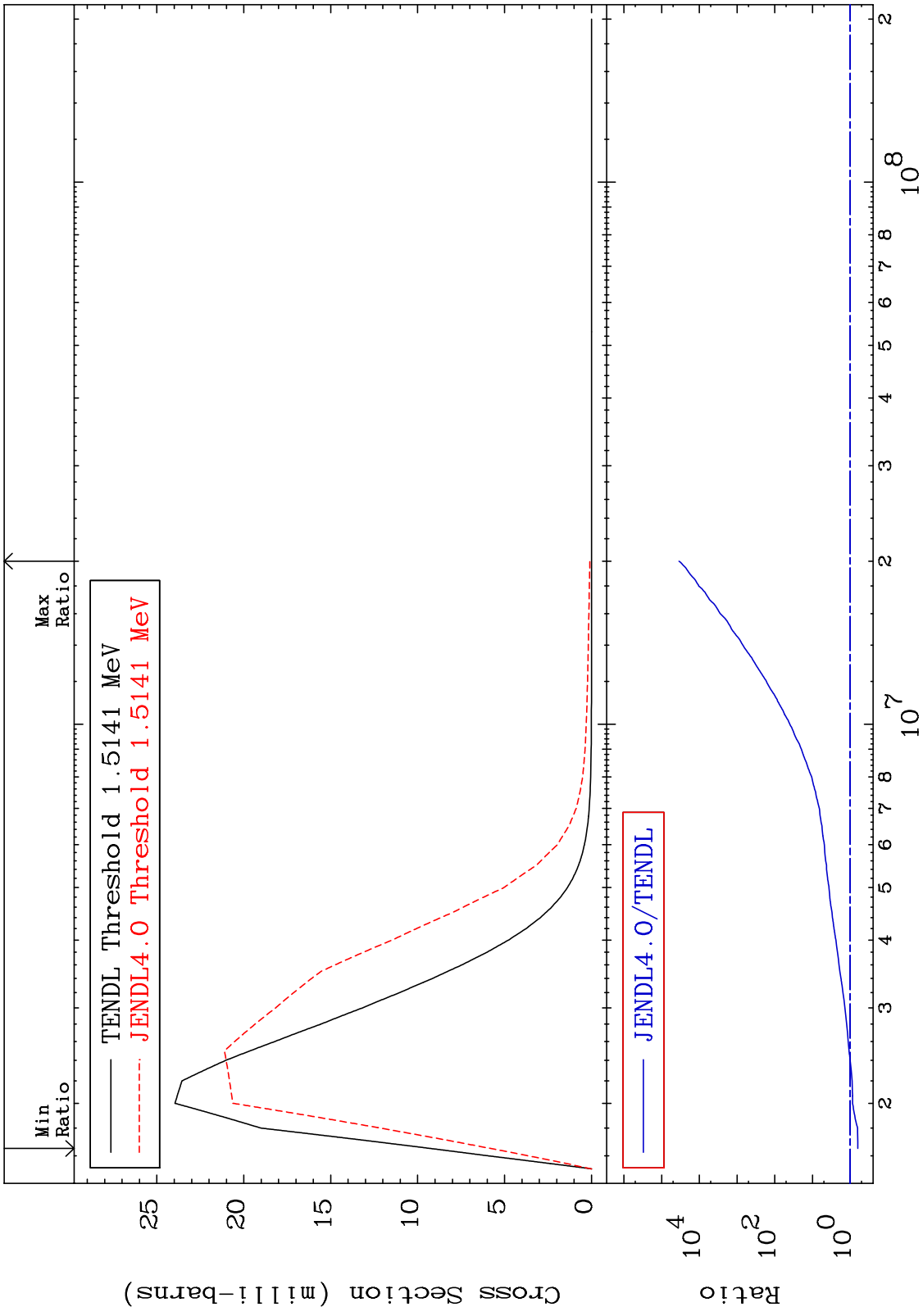
MAT 3725 MT= 65 (n,n') Level Cross Section -46.10 To 1741. % 37-Rb-85



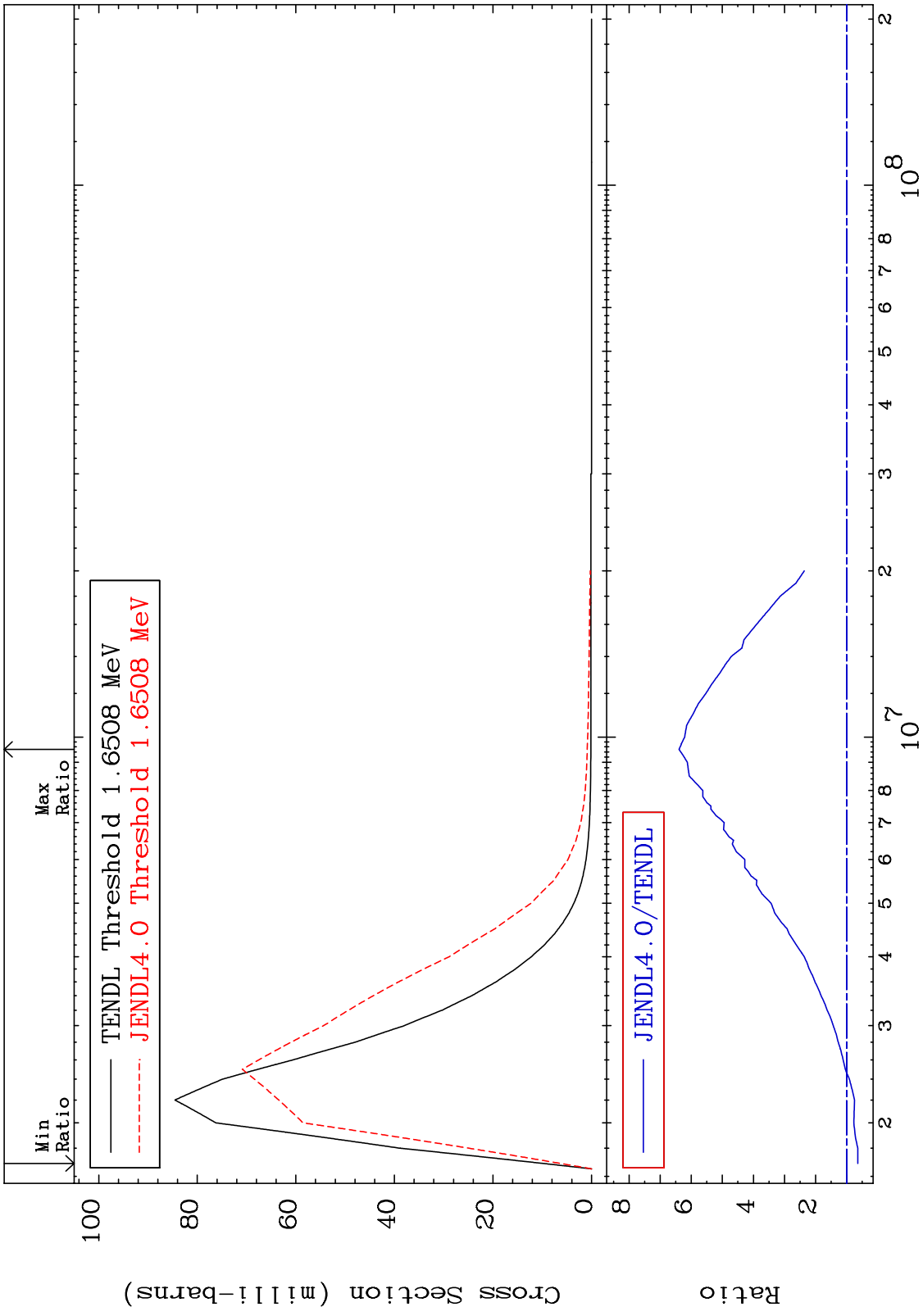
MAT 3725 MT= 66 (n,n') Level Cross Section -31.28 To 539.4 % 37-Rb-85



MAT 3725 MT= 67 (n,n') Level Cross Section -37.31 To 9999. % 37-Rb-85



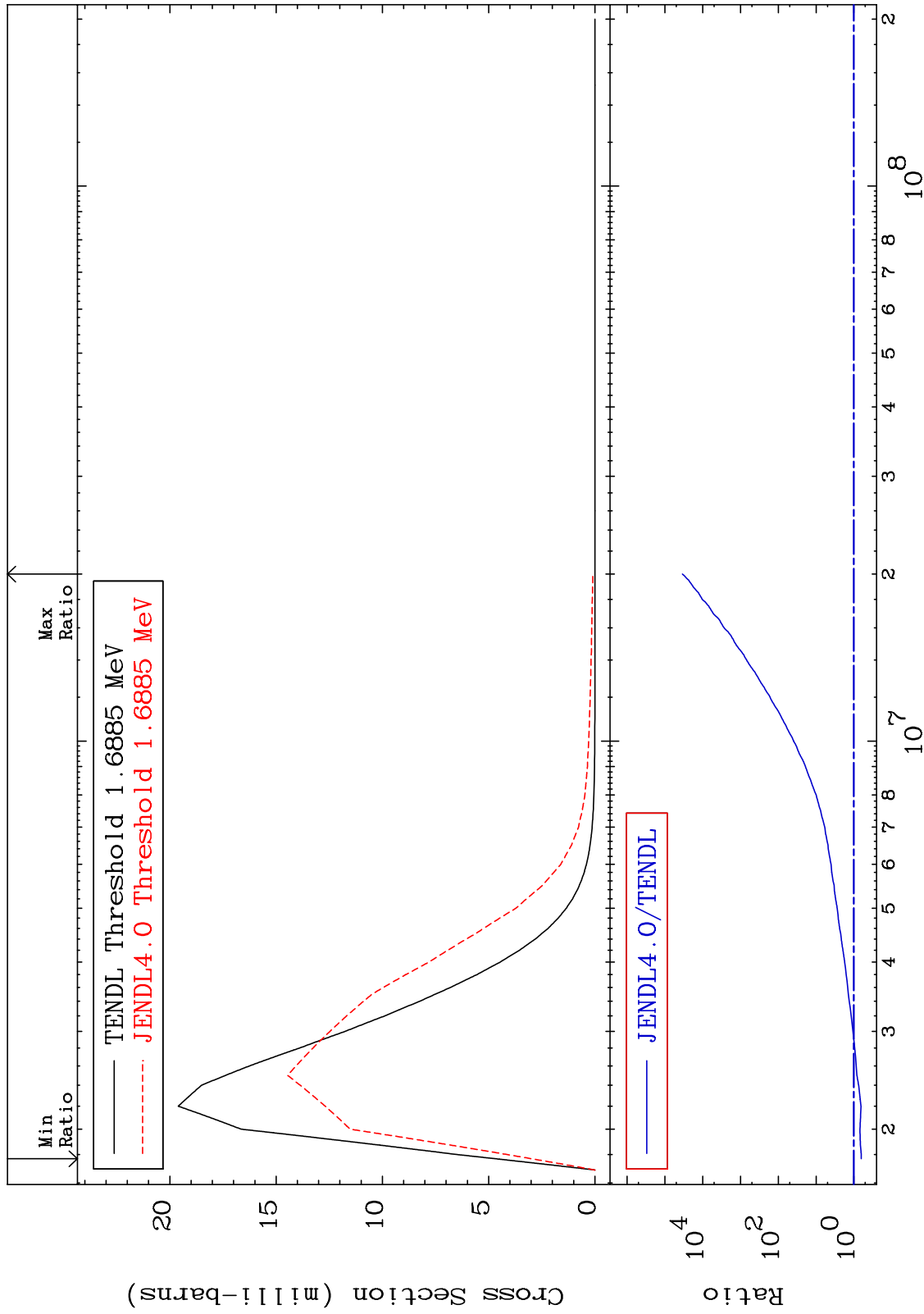
MAT 3725 MT= 68 (n,n') Level Cross Section 37-Rb-85
 -35.91 To 539.3 %



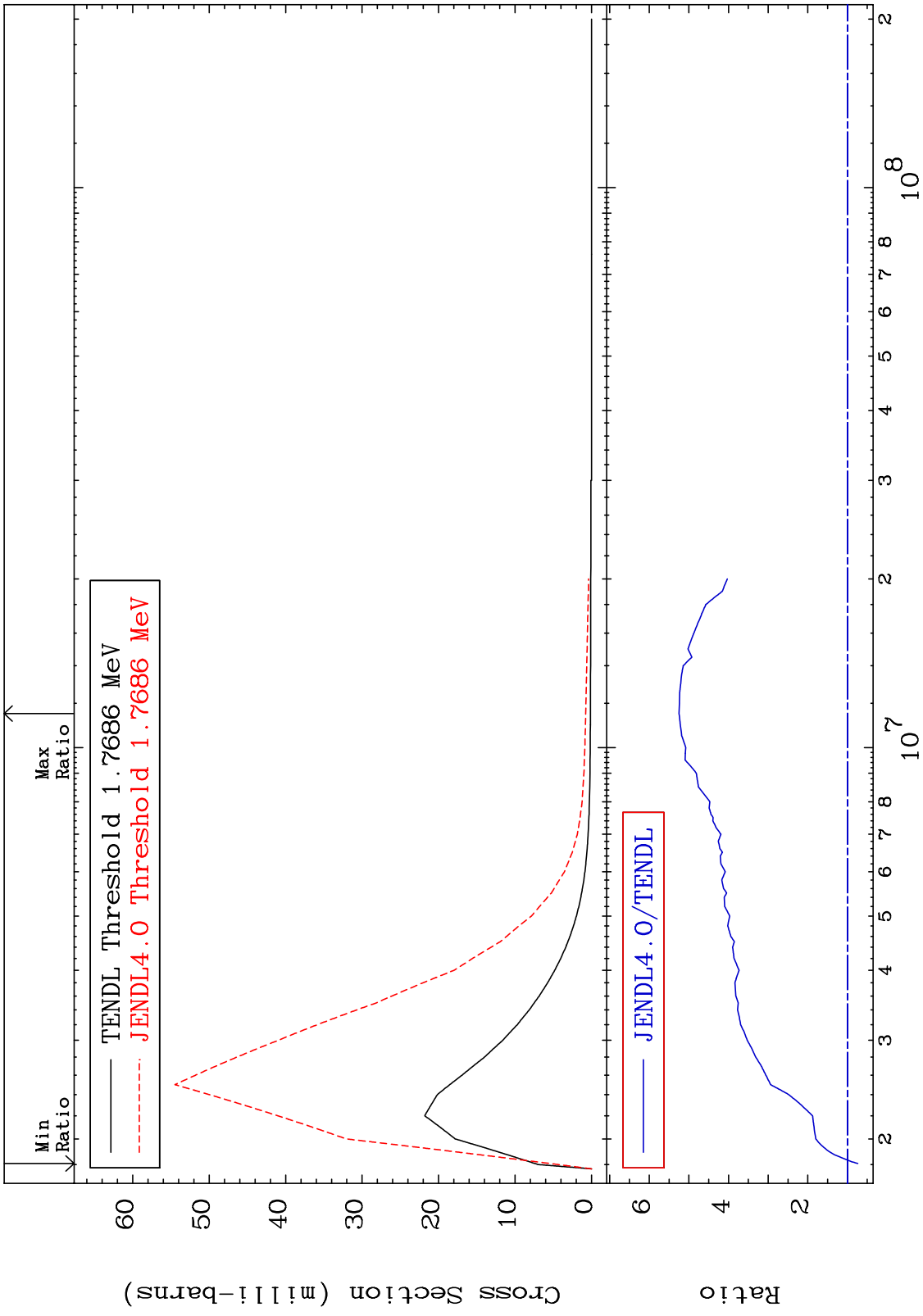
MAT 3725

MT= 69 (n,n') Level
Cross Section

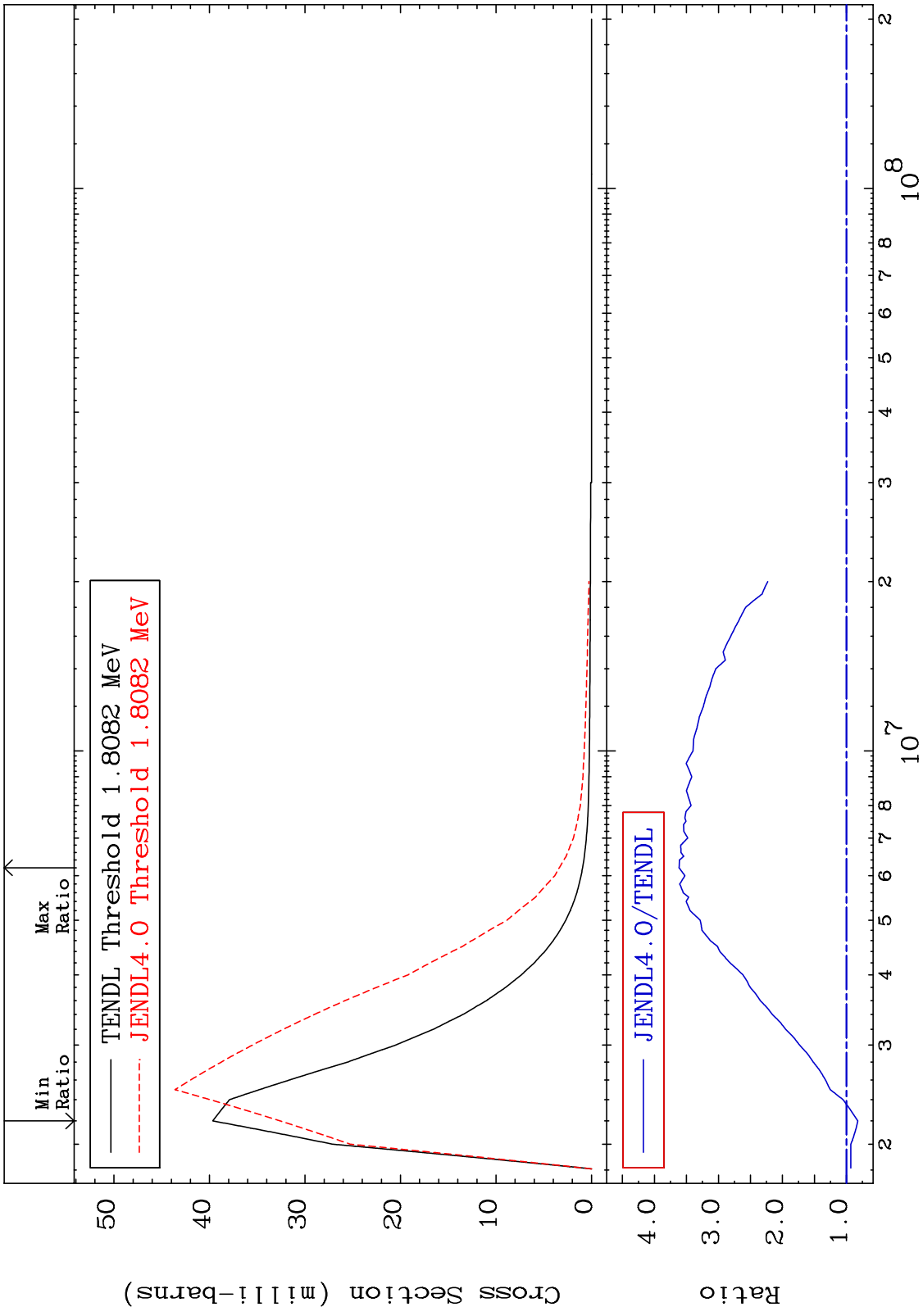
37-Rb-85
-36.29 To 9999. %



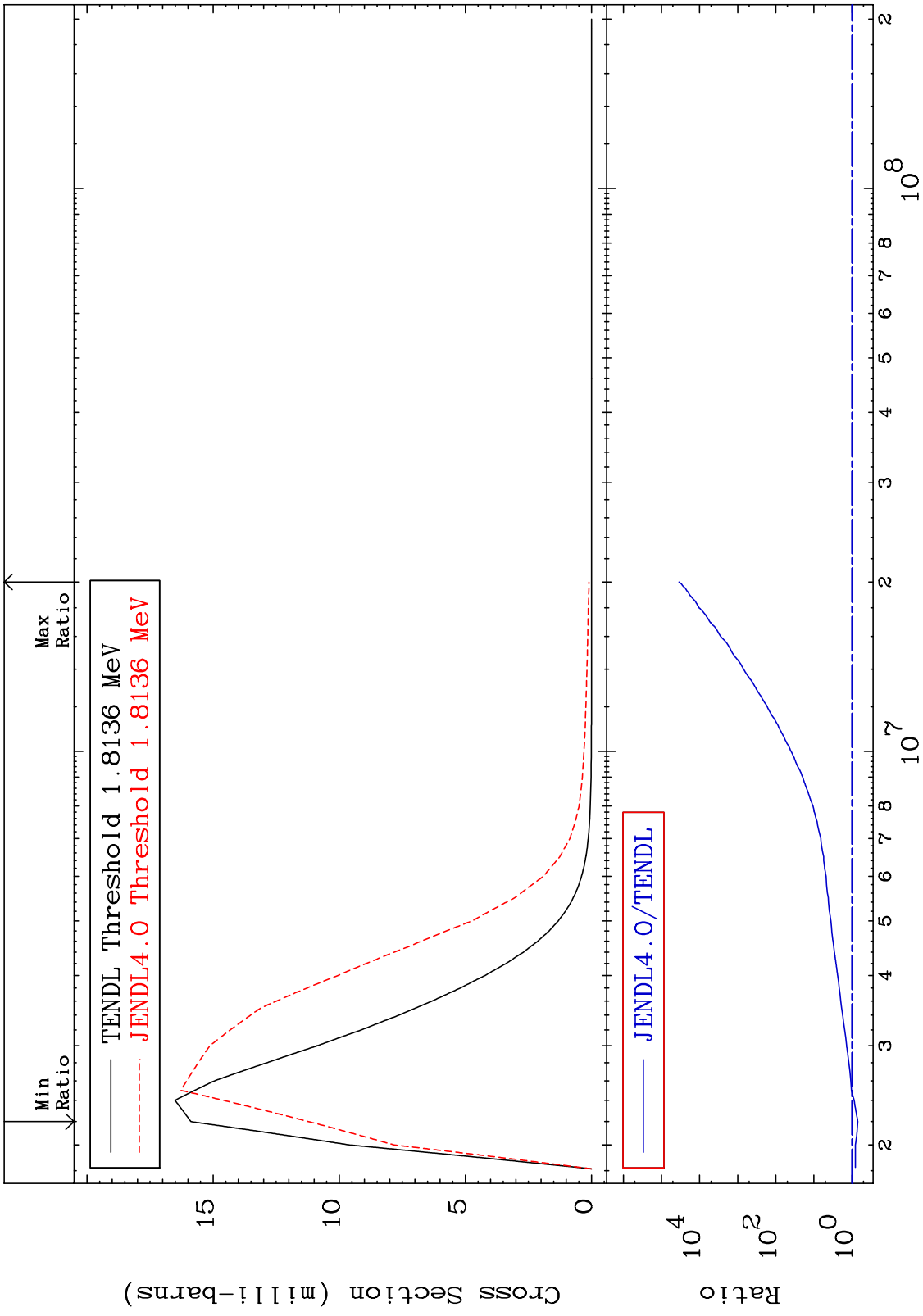
MAT 3725 MT= 70 (n,n') Level Cross Section 37-Rb-85
 -26.15 To 424.9 %



MAT 3725 MT= 71 (n,n') Level Cross Section 37-Rb-85
 -17.79 To 261.6 %



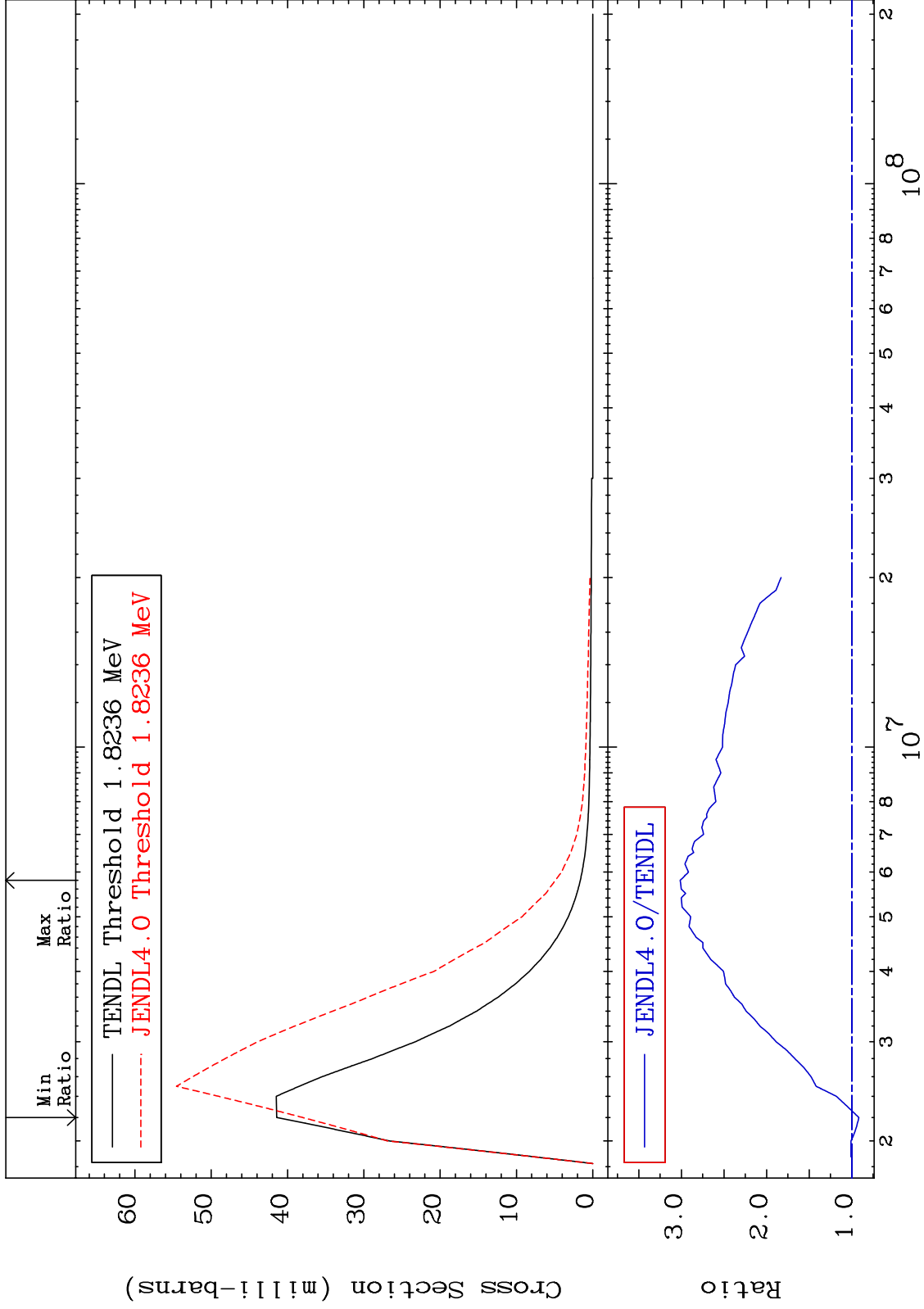
MAT 3725 MT= 72 (n,n') Level Cross Section -29.41 To 9999. % 37-Rb-85



MAT 3725

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

37-Rb-85
-8.306 To 201.4 %

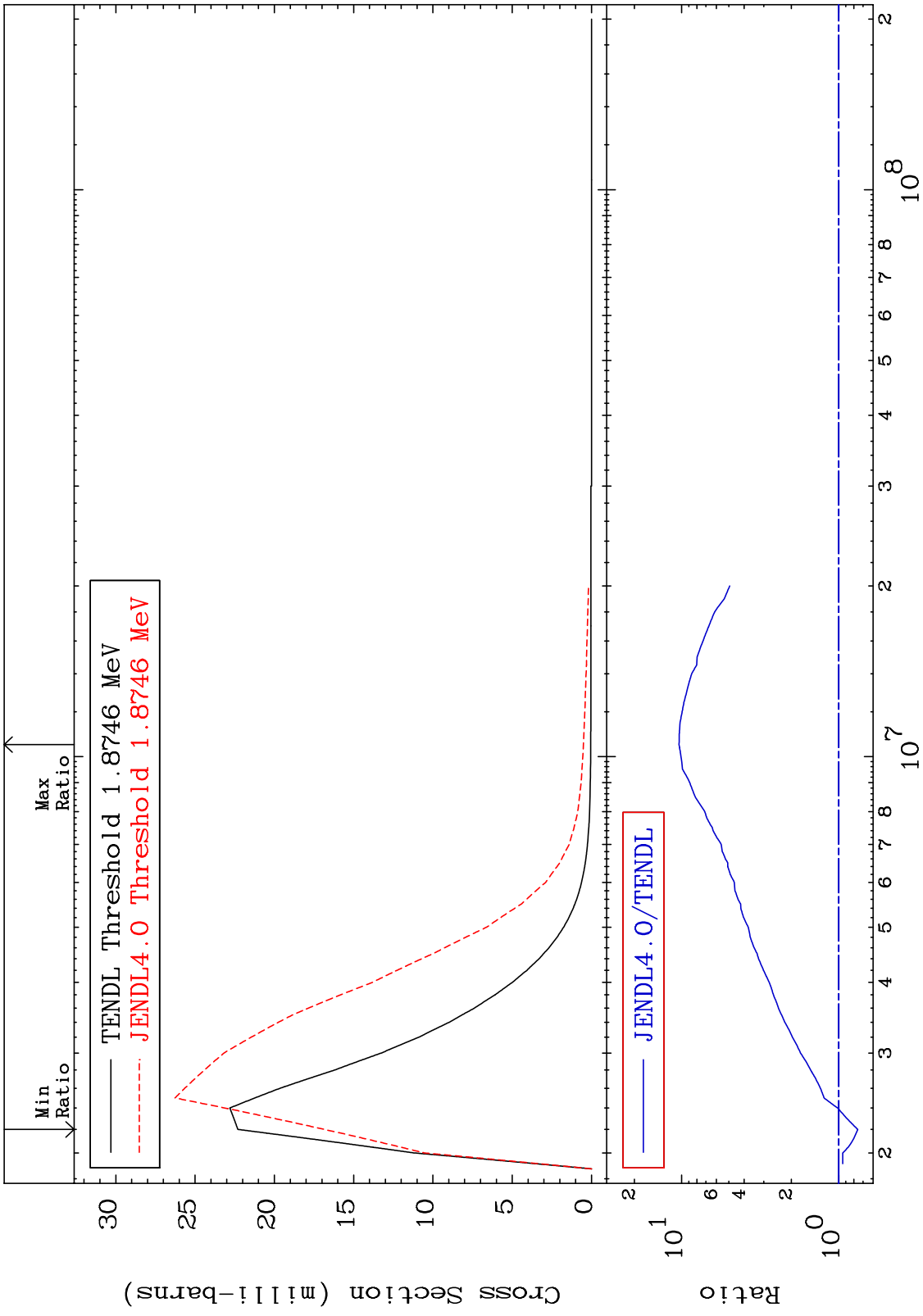


30

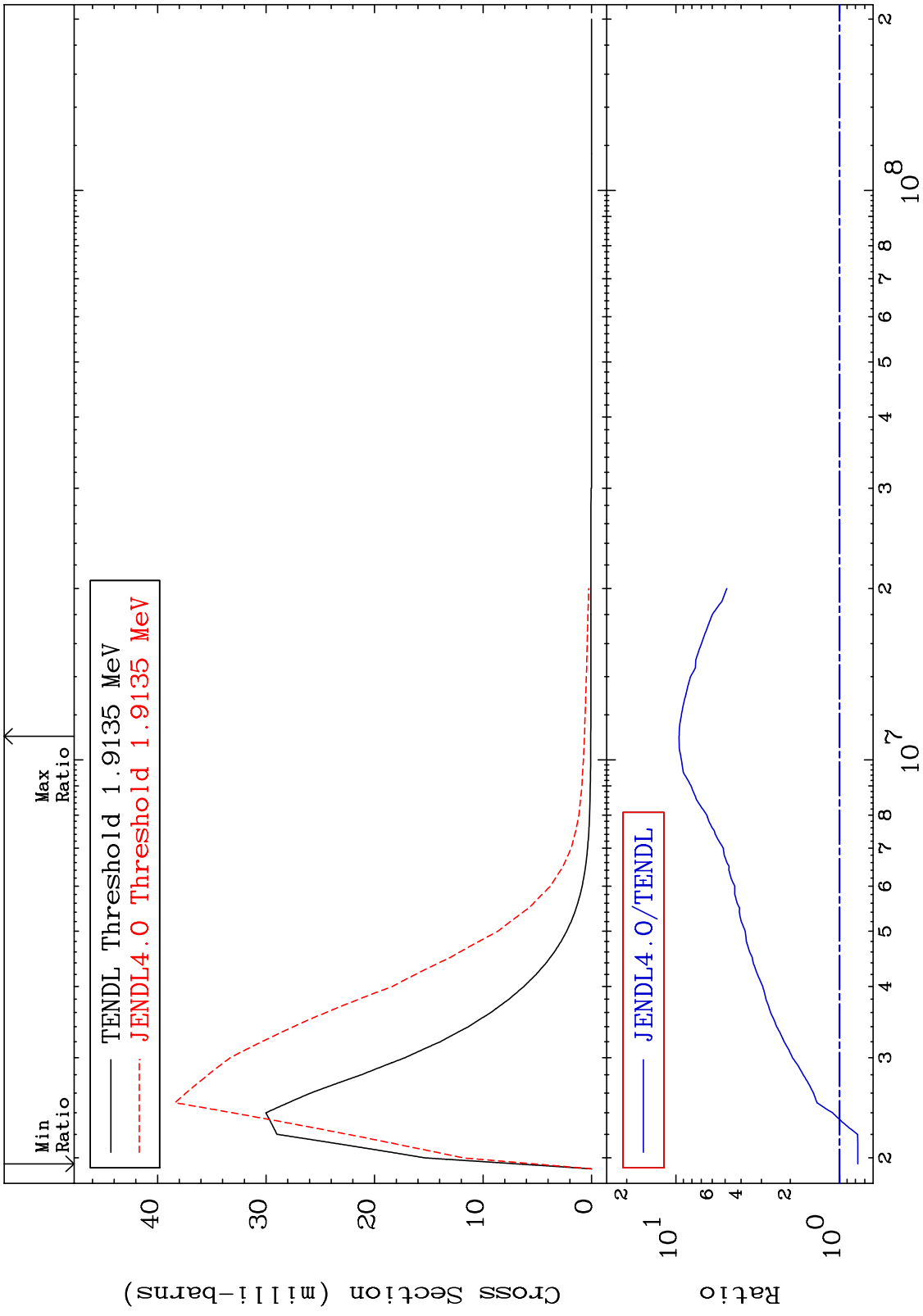
Incident Energy (eV)

37-Rb-85

MAT 3725 MT= 74 (n,n') Level Cross Section 37-Rb-85
 -24.50 To 938.0 %



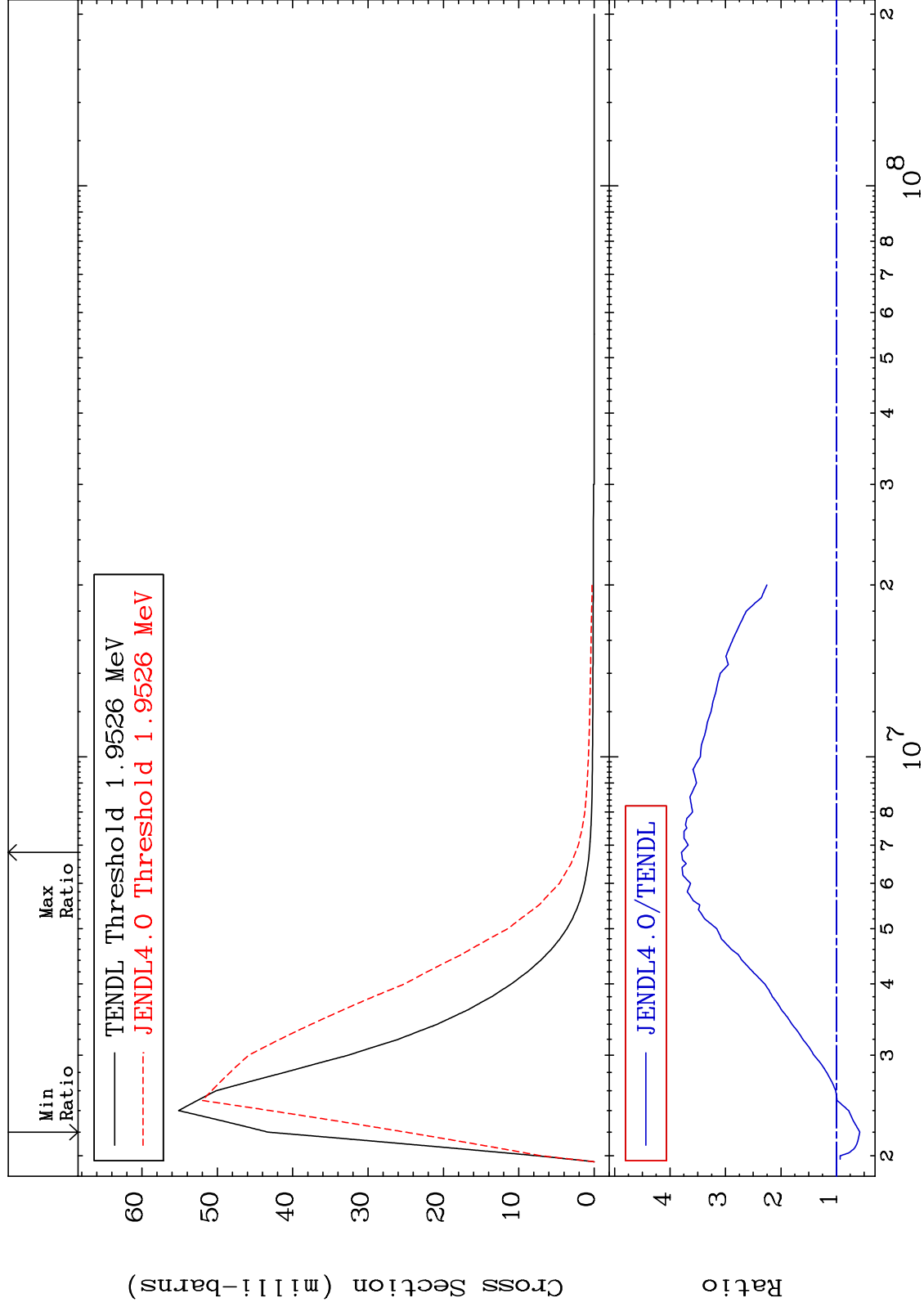
MAT 3725 MT= 75 (n,n') Level Cross Section 37-Rb-85
 -22.71 To 857.5 %



MAT 3725

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

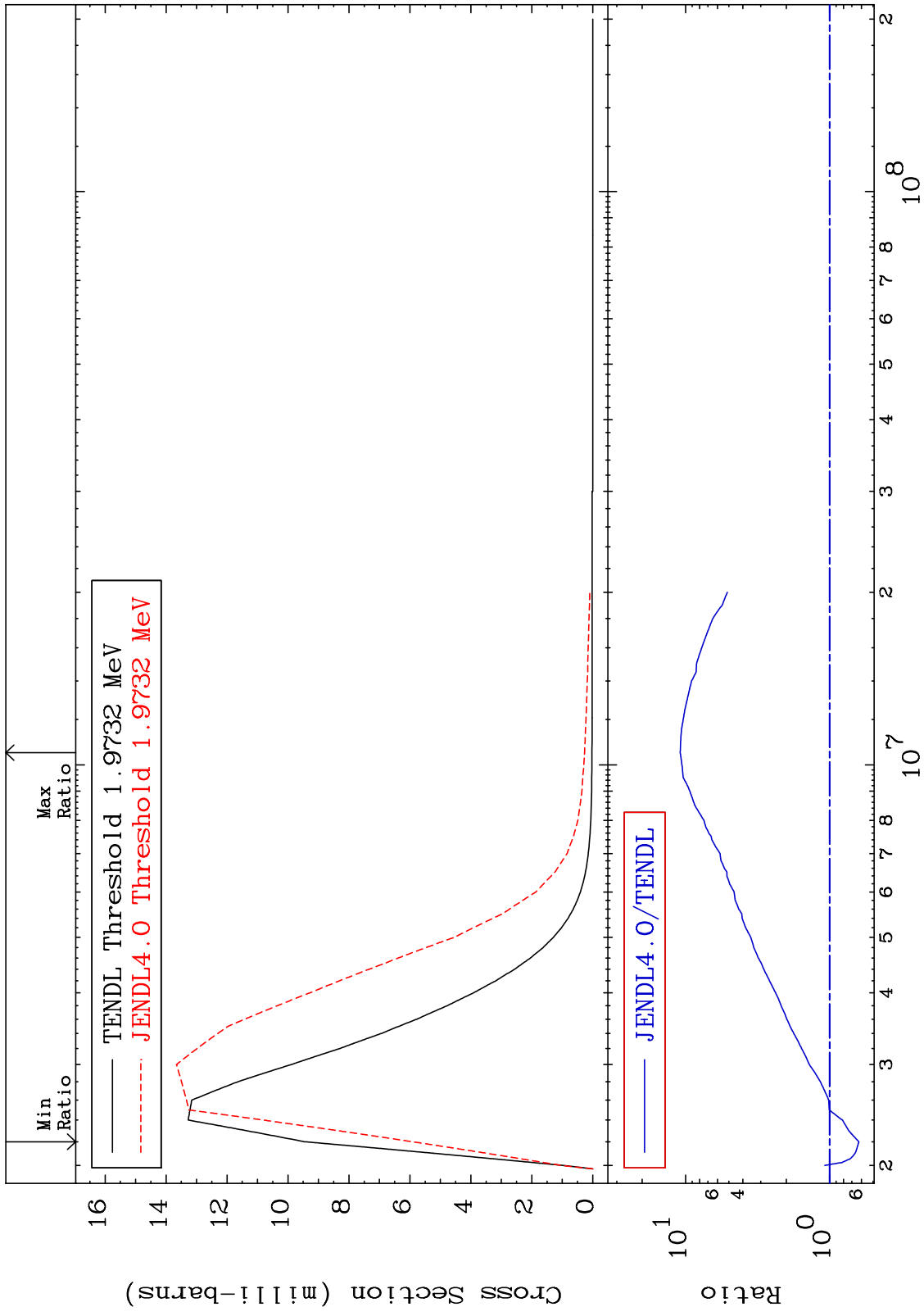
37-Rb-85
-42.19 To 279.4 %



MAT 3725

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

37-Rb-85
-37.39 To 988.9 %

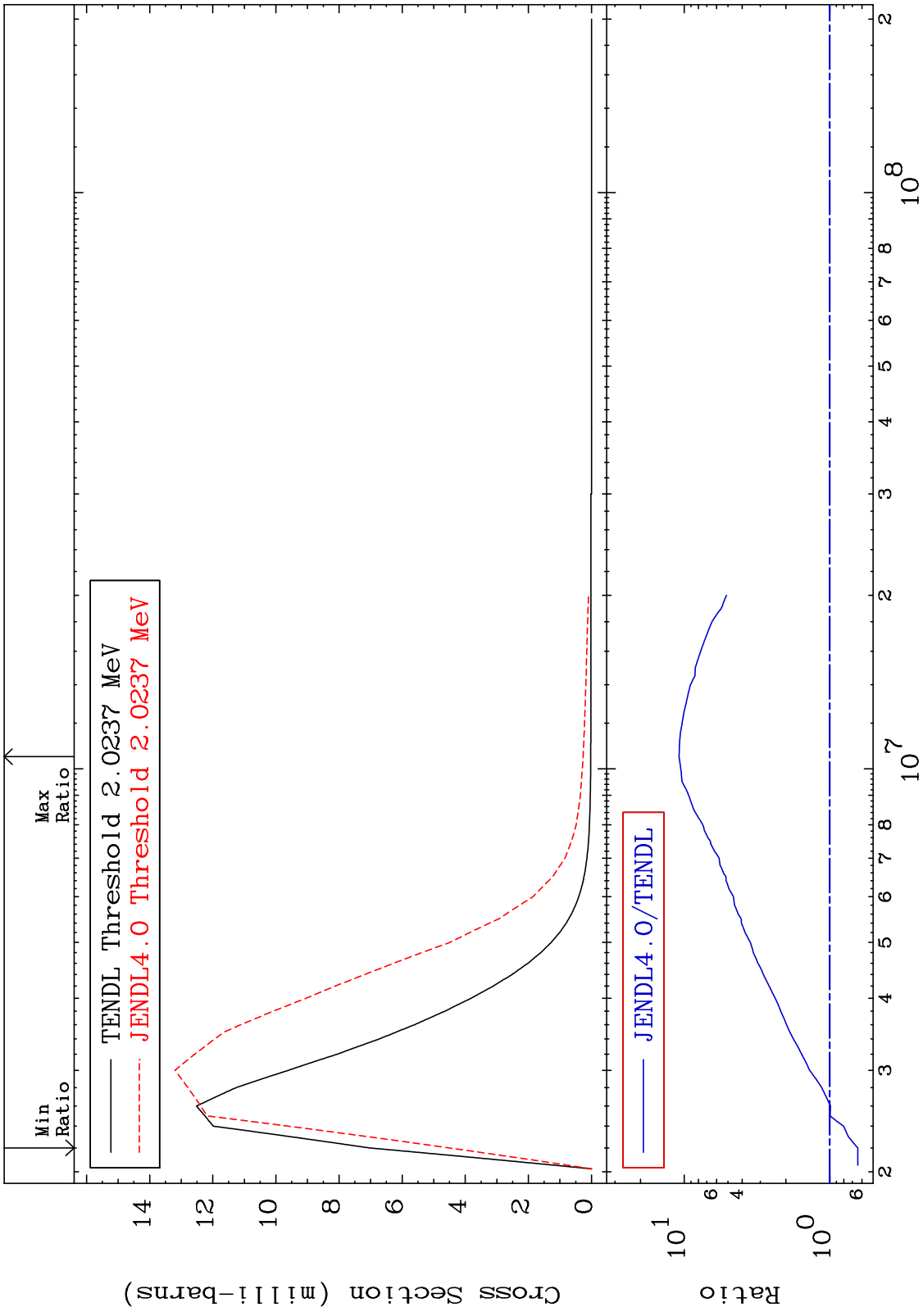


34

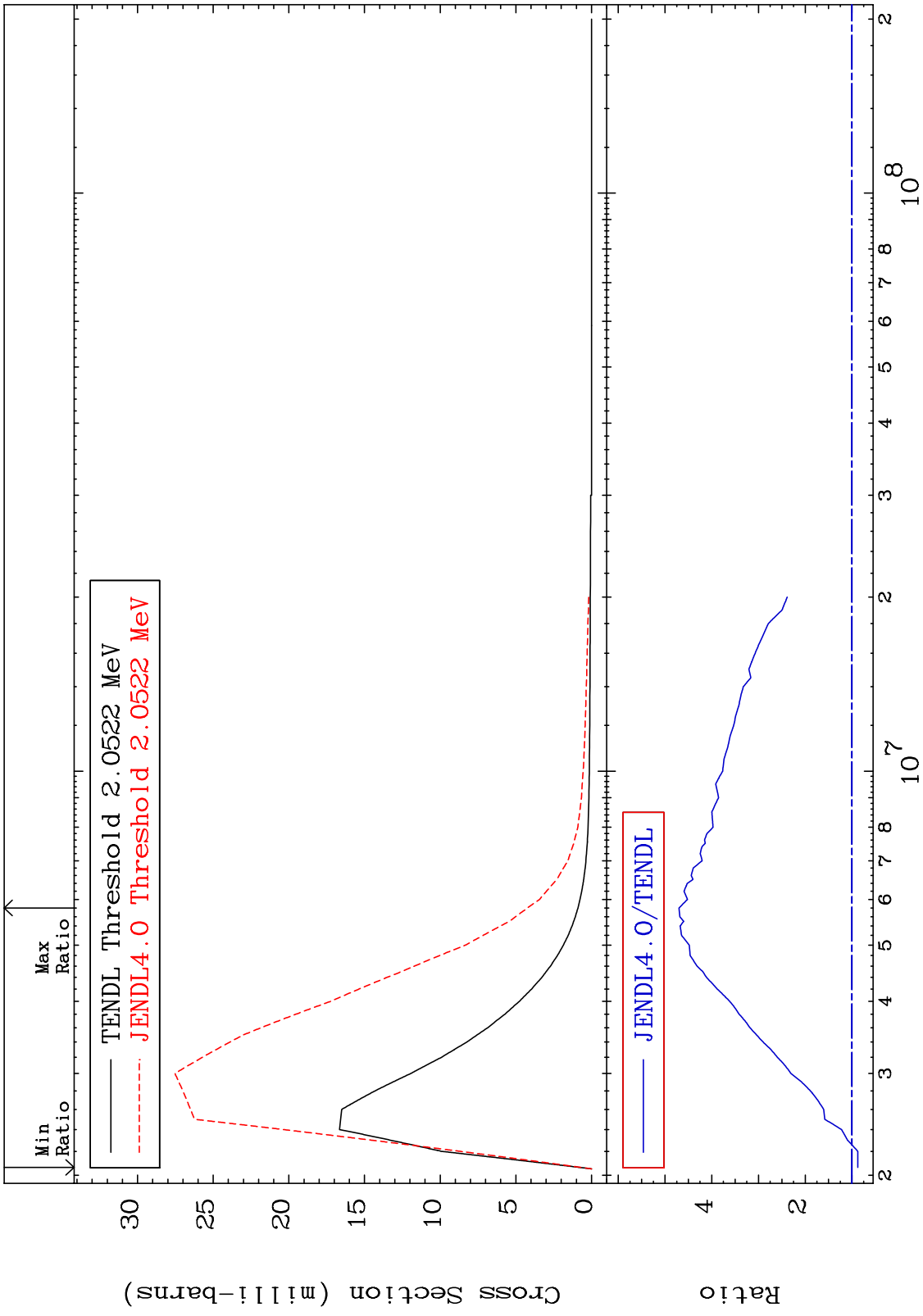
Incident Energy (eV)

37-Rb-85

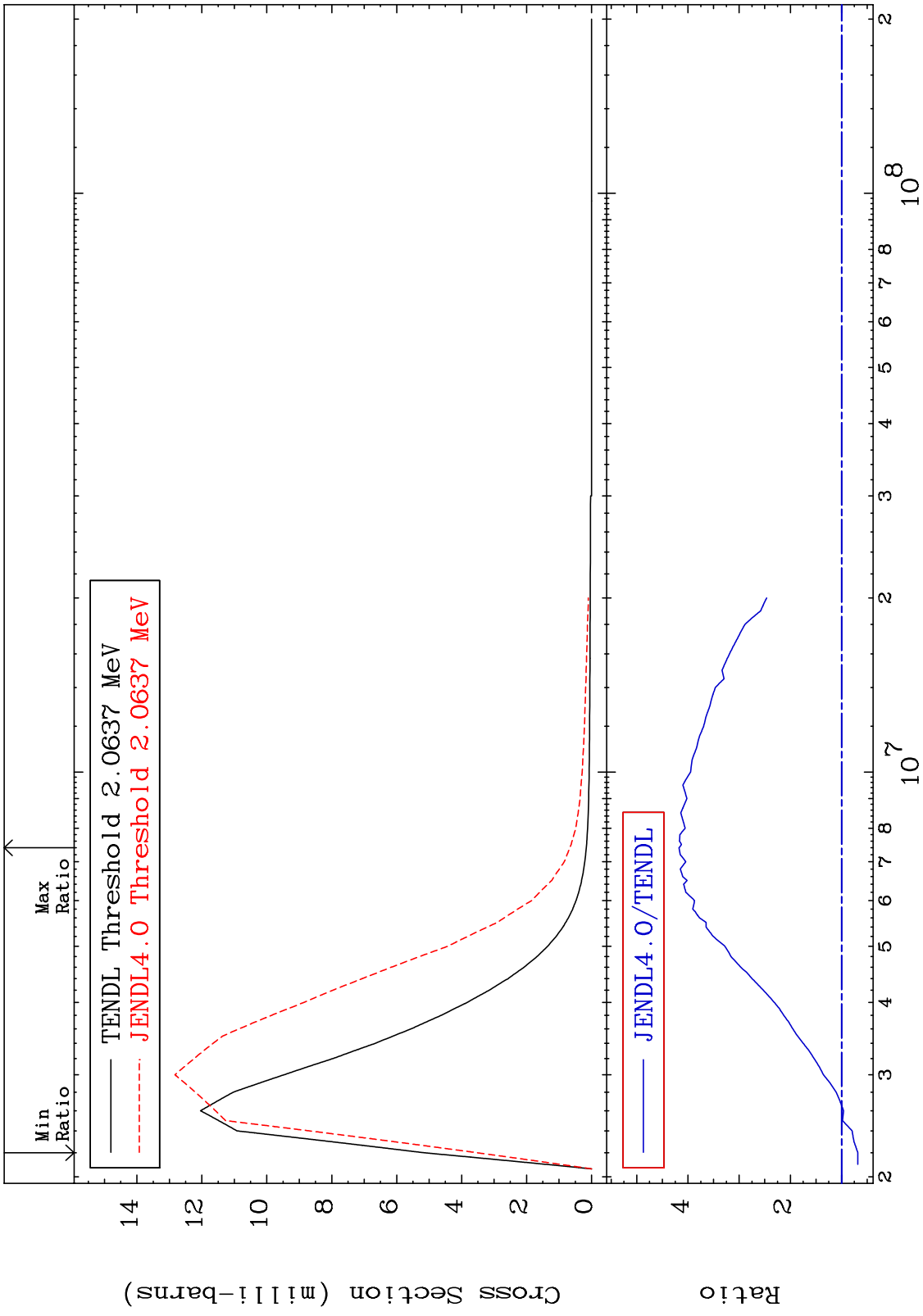
MAT 3725 MT= 78 (n,n') Level Cross Section 37-Rb-85
 -35.94 To 986.0 %



MAT 3725 MT= 79 (n,n') Level Cross Section 37-Rb-85
 -12.54 To 370.0 %



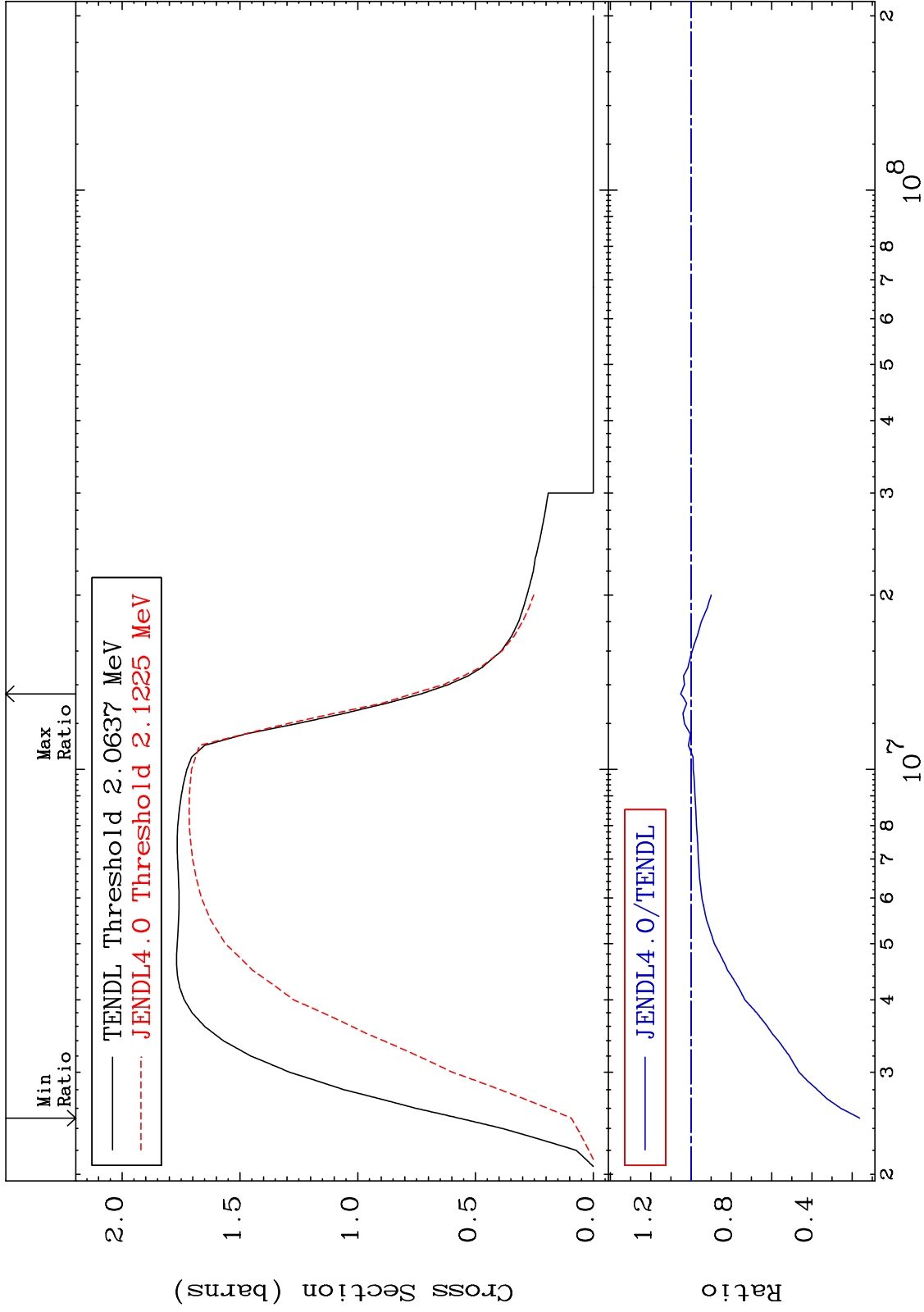
MAT 3725 MT= 80 (n,n') Level Cross Section -31.74 To 317.4 % 37-Rb-85



MAT 3725

(n, n') Continuum
Cross Section

37-Rb-85
-83.69 To 5.069 %



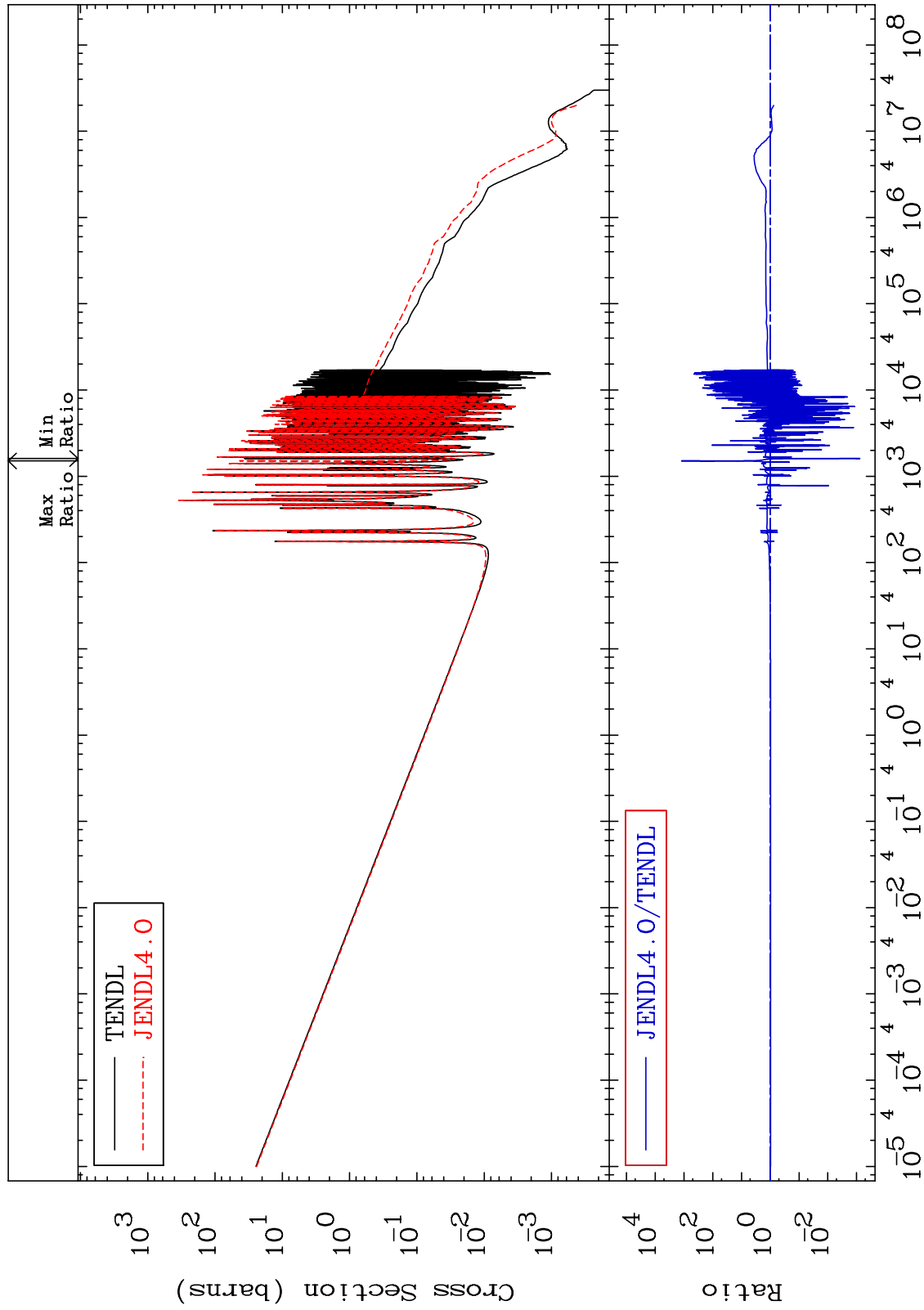
MAT 3725

(n, γ)

37-Rb-85

-99.92 To 9999. %

Cross Section



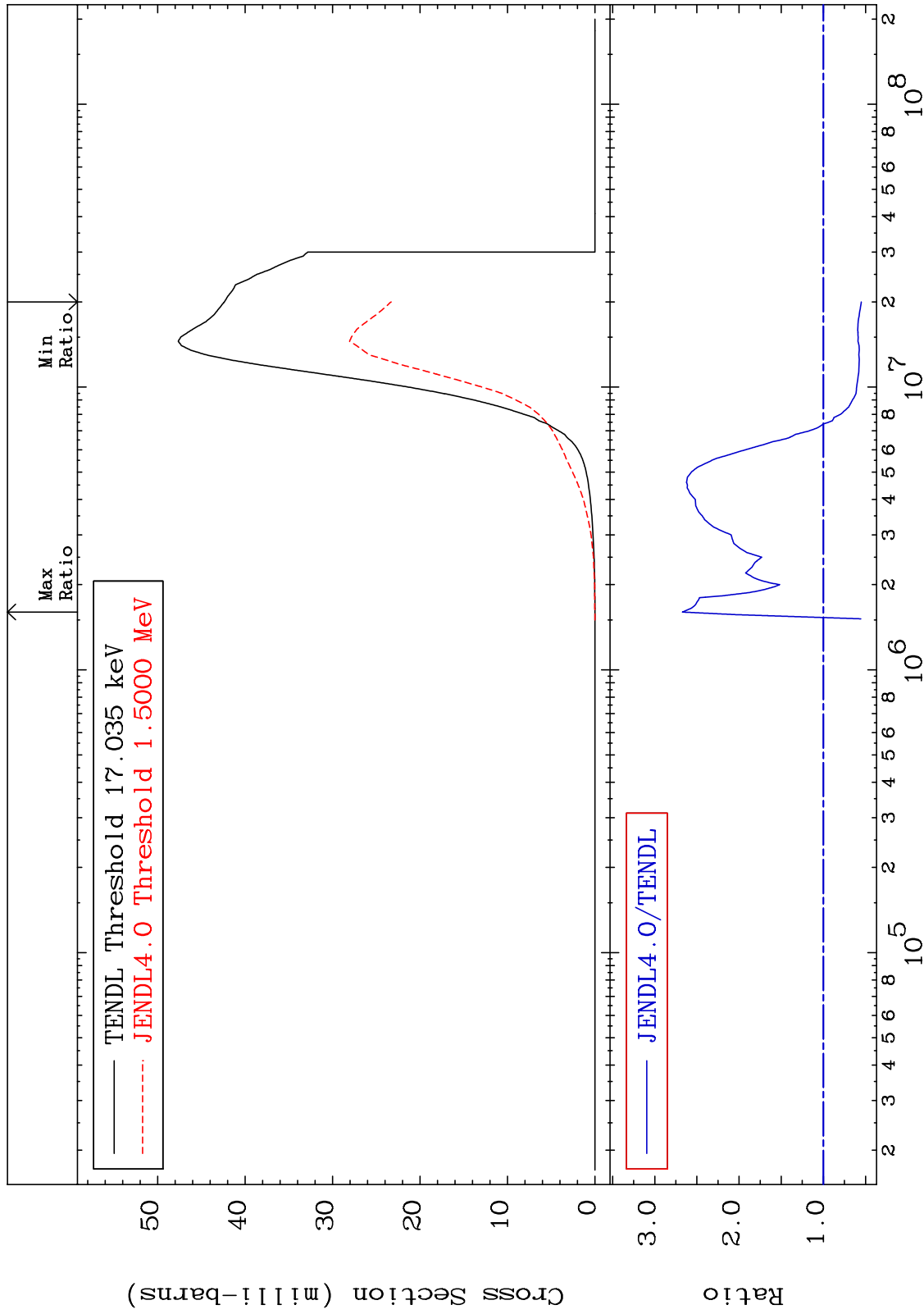
MAT 3725

(n,p)

³⁷Rb-85

Cross Section

-44.99 To 167.2 %

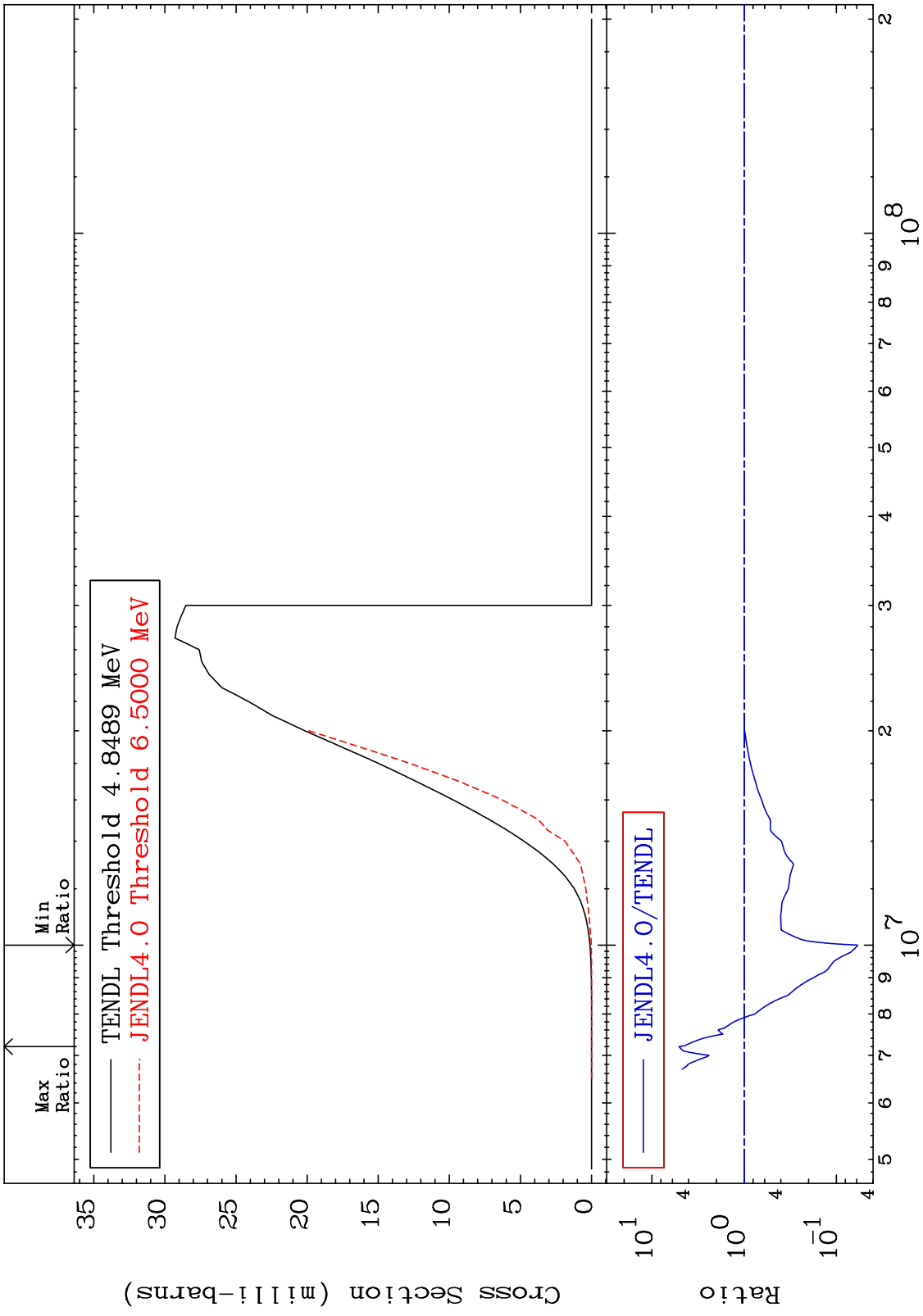


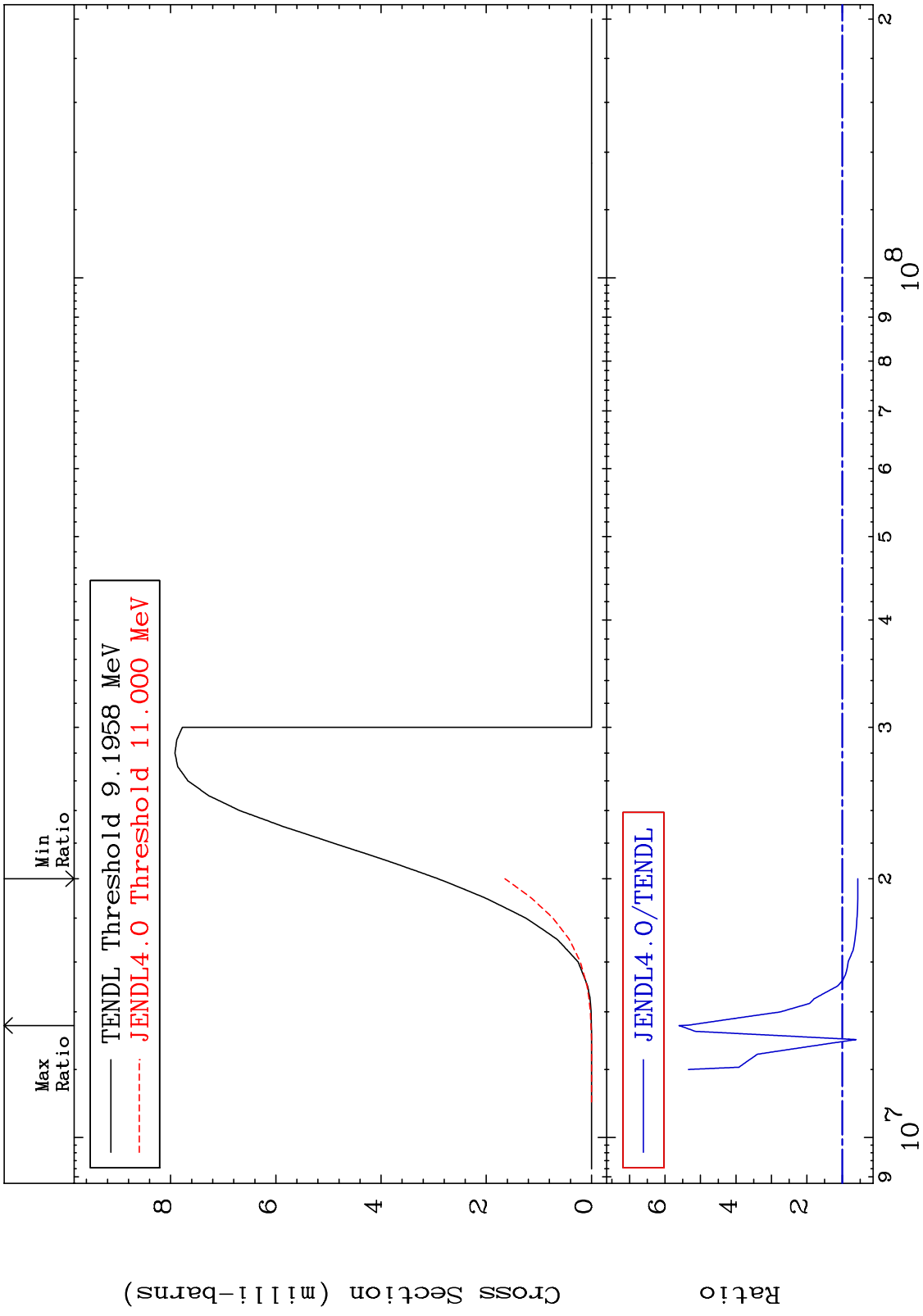
40

Incident Energy (eV)

³⁷Rb-85

MAT 3725 (n,d) Cross Section 37-Rb-85 -94.16 To 408.0 %





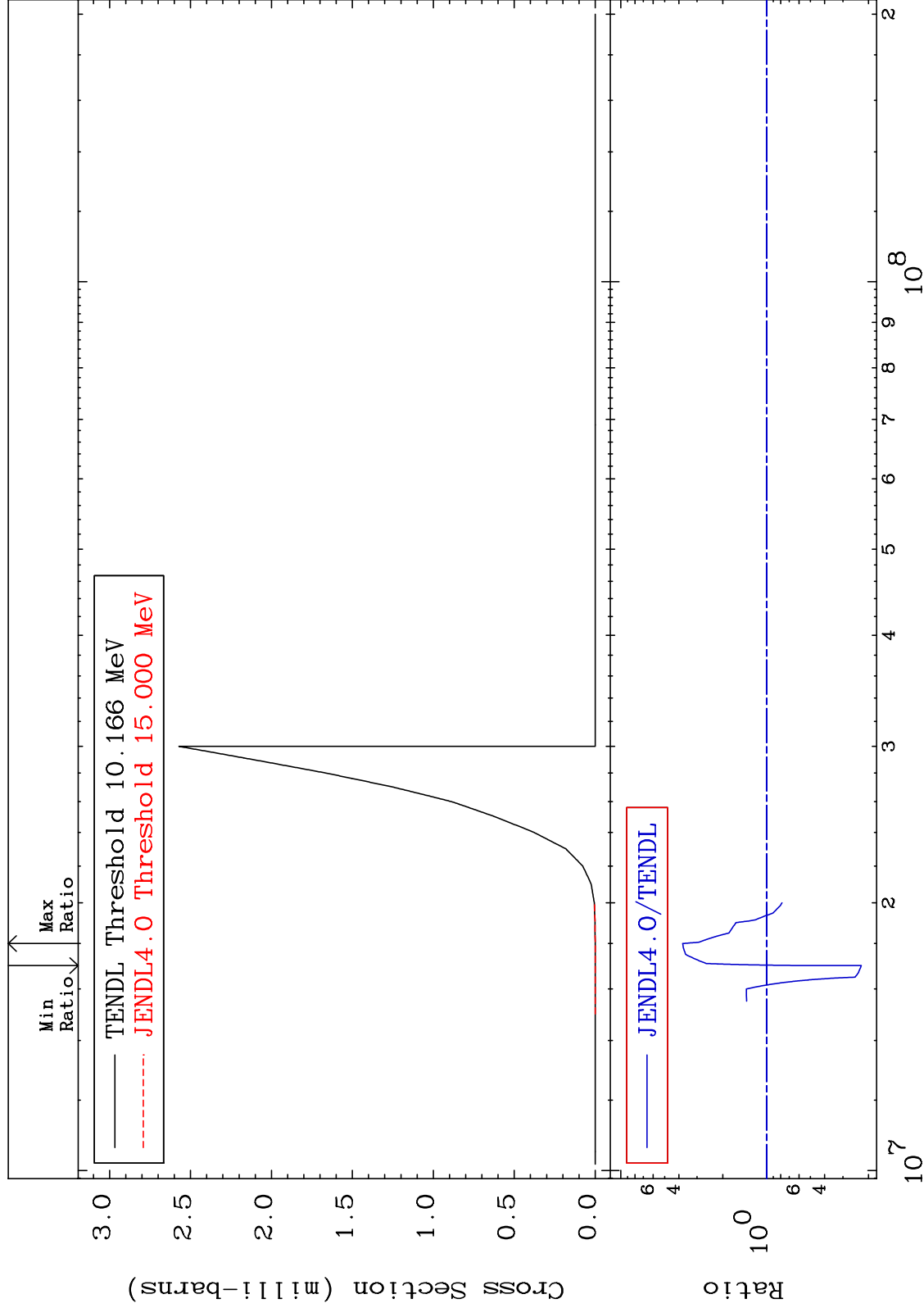
MAT 3725

(n, He-3)

37-Rb-85

Cross Section

-77.60 To 276.4 %



43

37-Rb-85

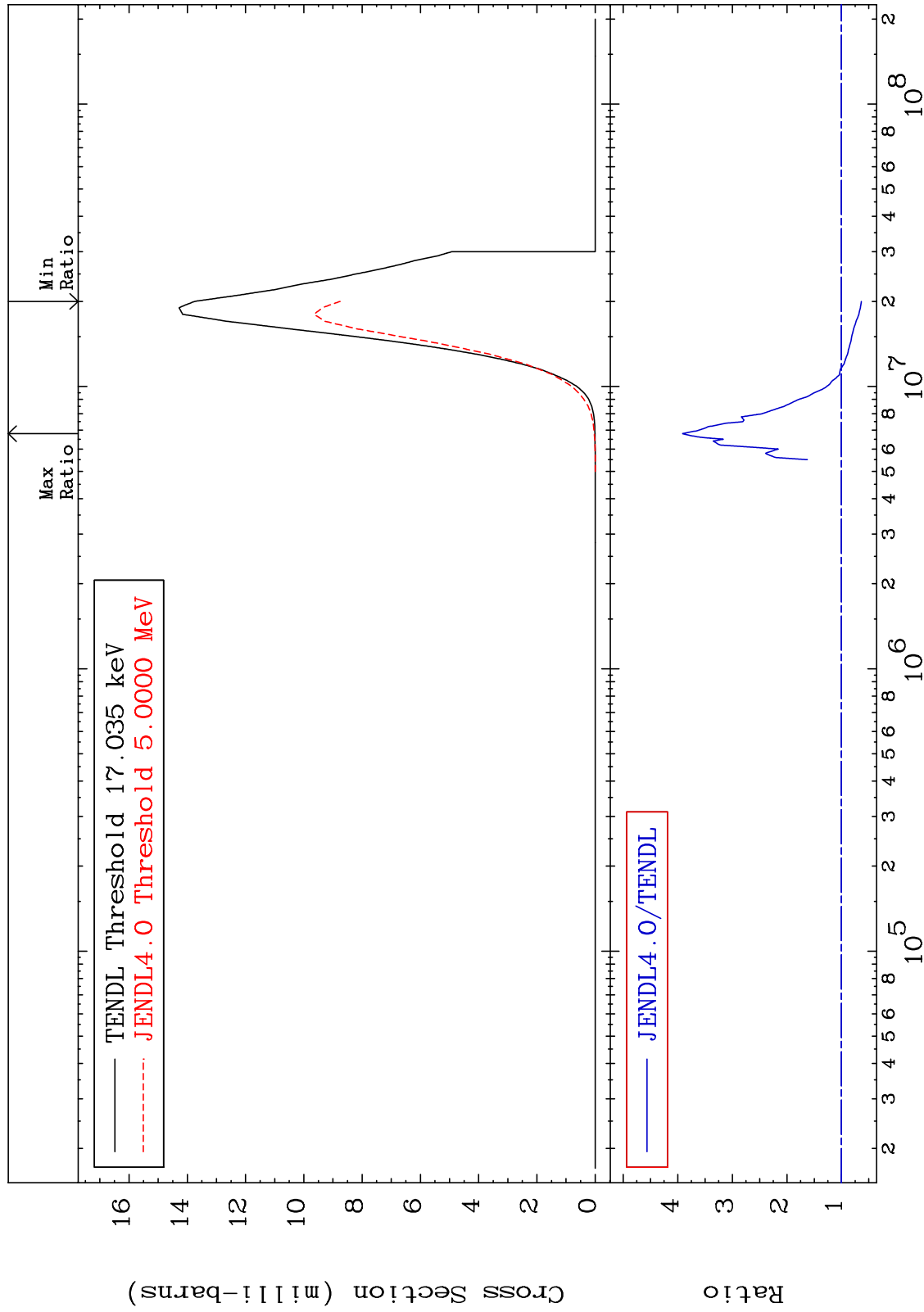
MAT 3725

(n, α)

37-Rb-85

Cross Section

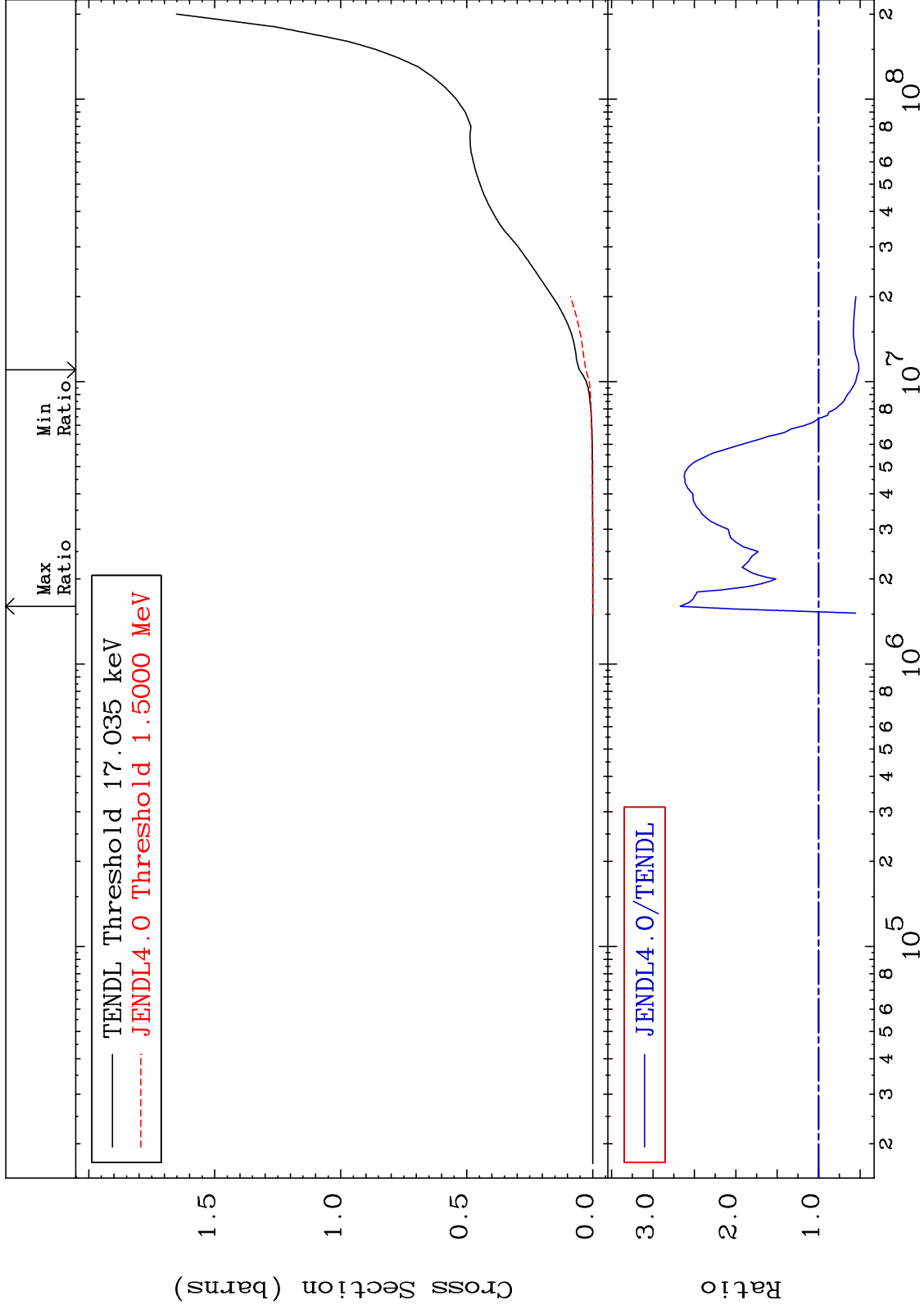
-36.32 To 291.0 %



MAT 3725

Hydrogen Production
Cross Section

37-Rb-85
-48.58 To 167.2 %



45

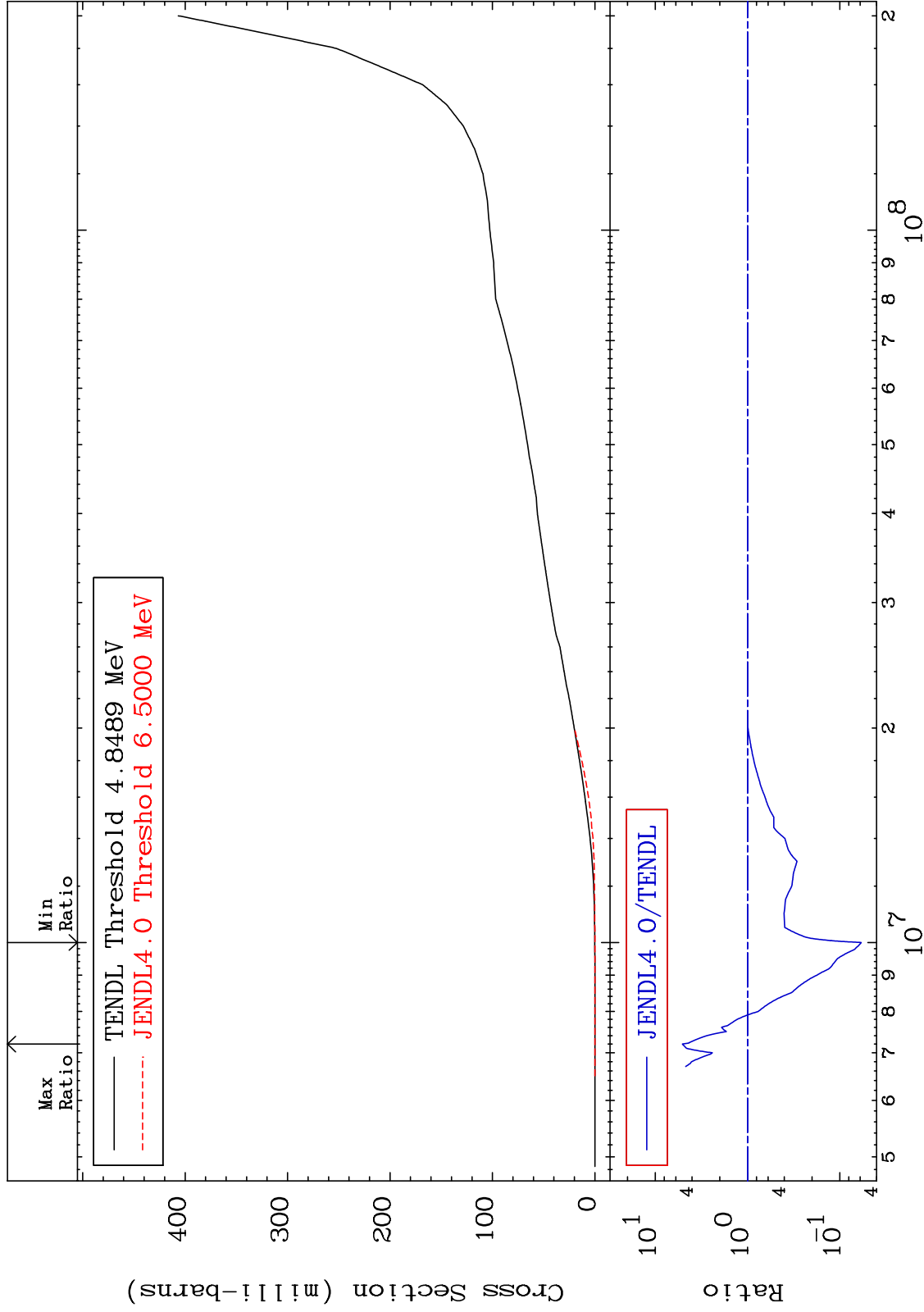
Incident Energy (eV)

37-Rb-85

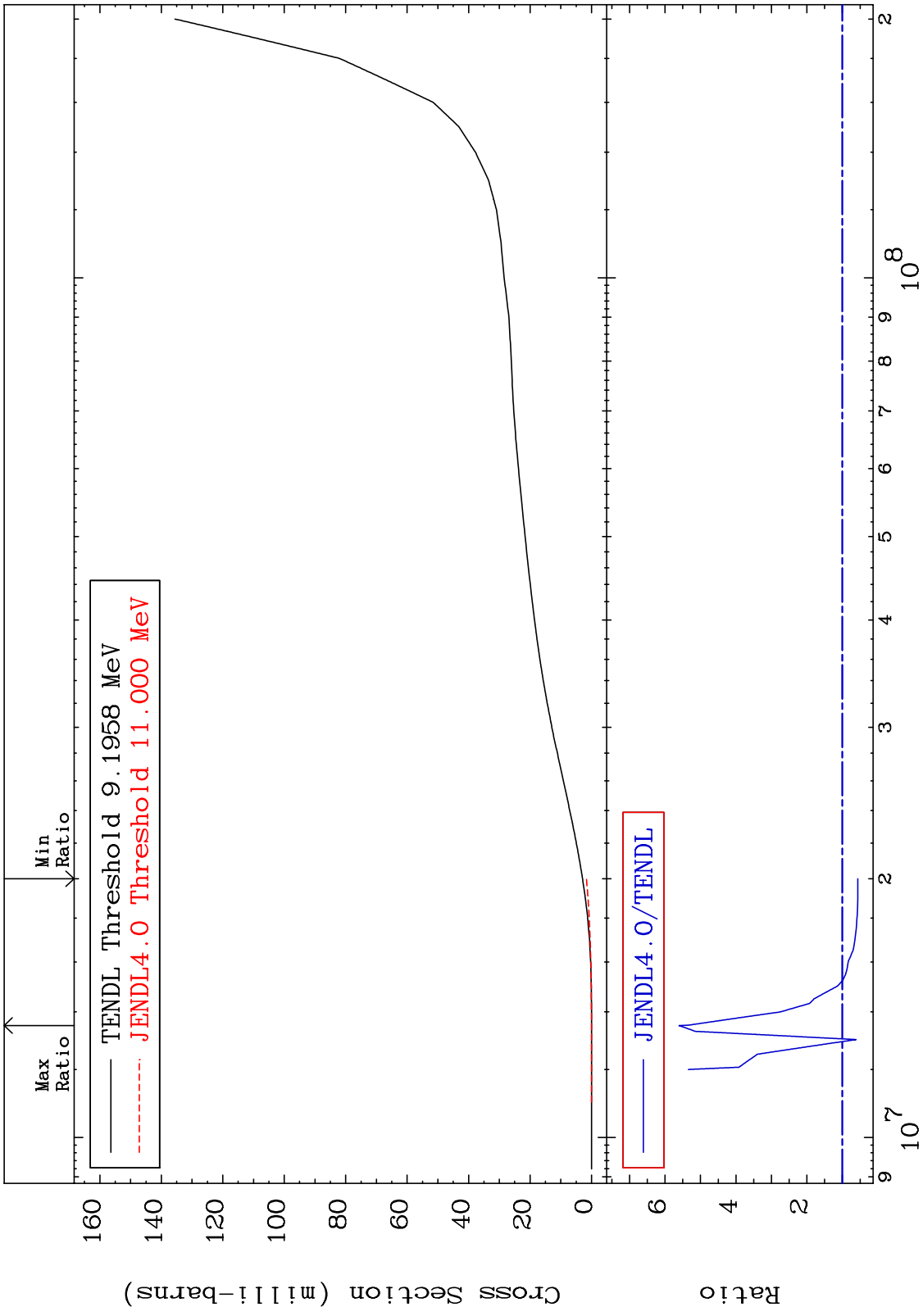
MAT 3725

Deuterium Production
Cross Section

37-Rb-85
-94.16 To 408.0 %



MAT 3725 Tritium Production Cross Section 37-Rb-85
 -43.61 To 460.5 %

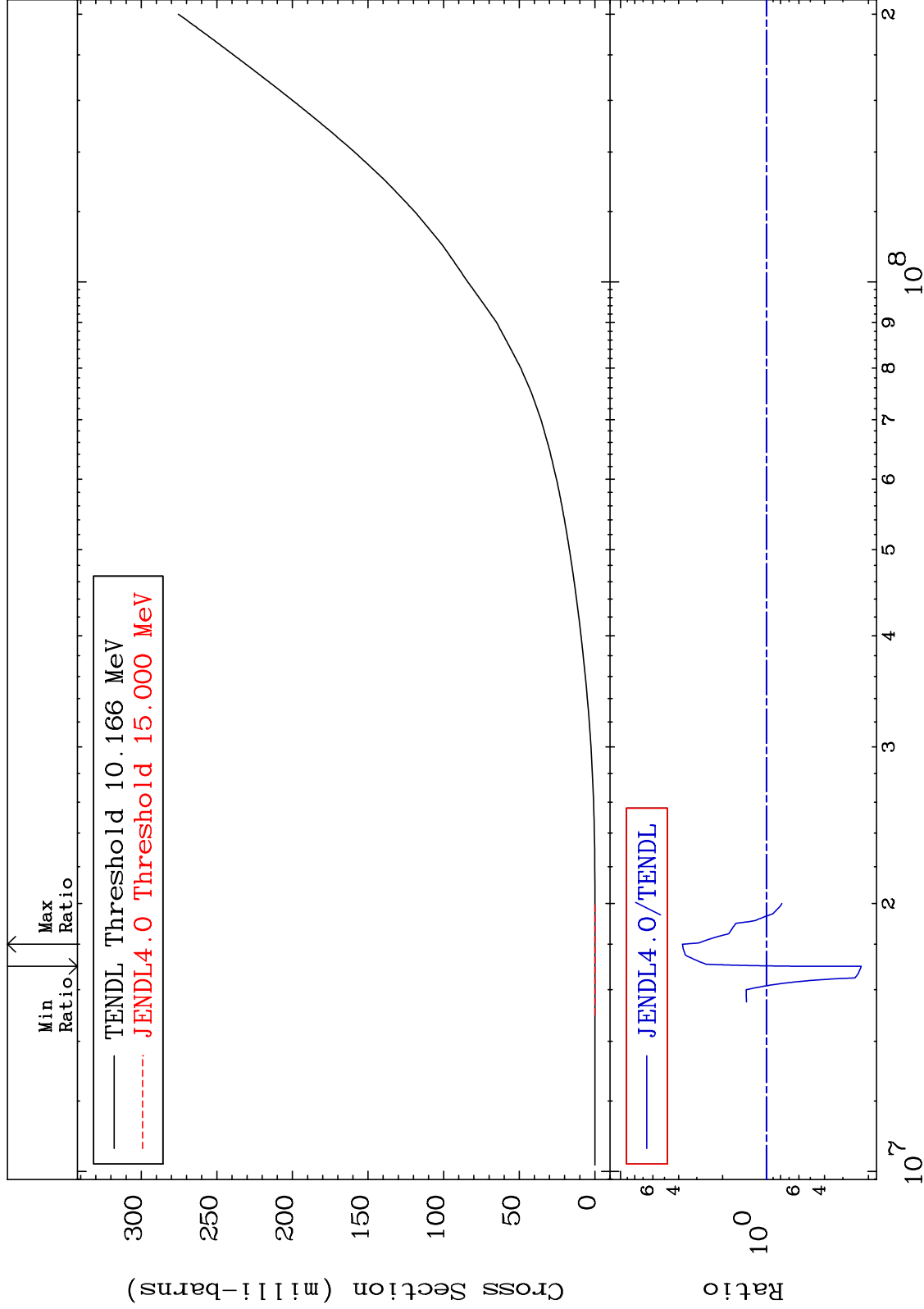


47 37-Rb-85

MAT 3725

He-3 Production
Cross Section

37-Rb-85
-77.60 To 276.4 %



48

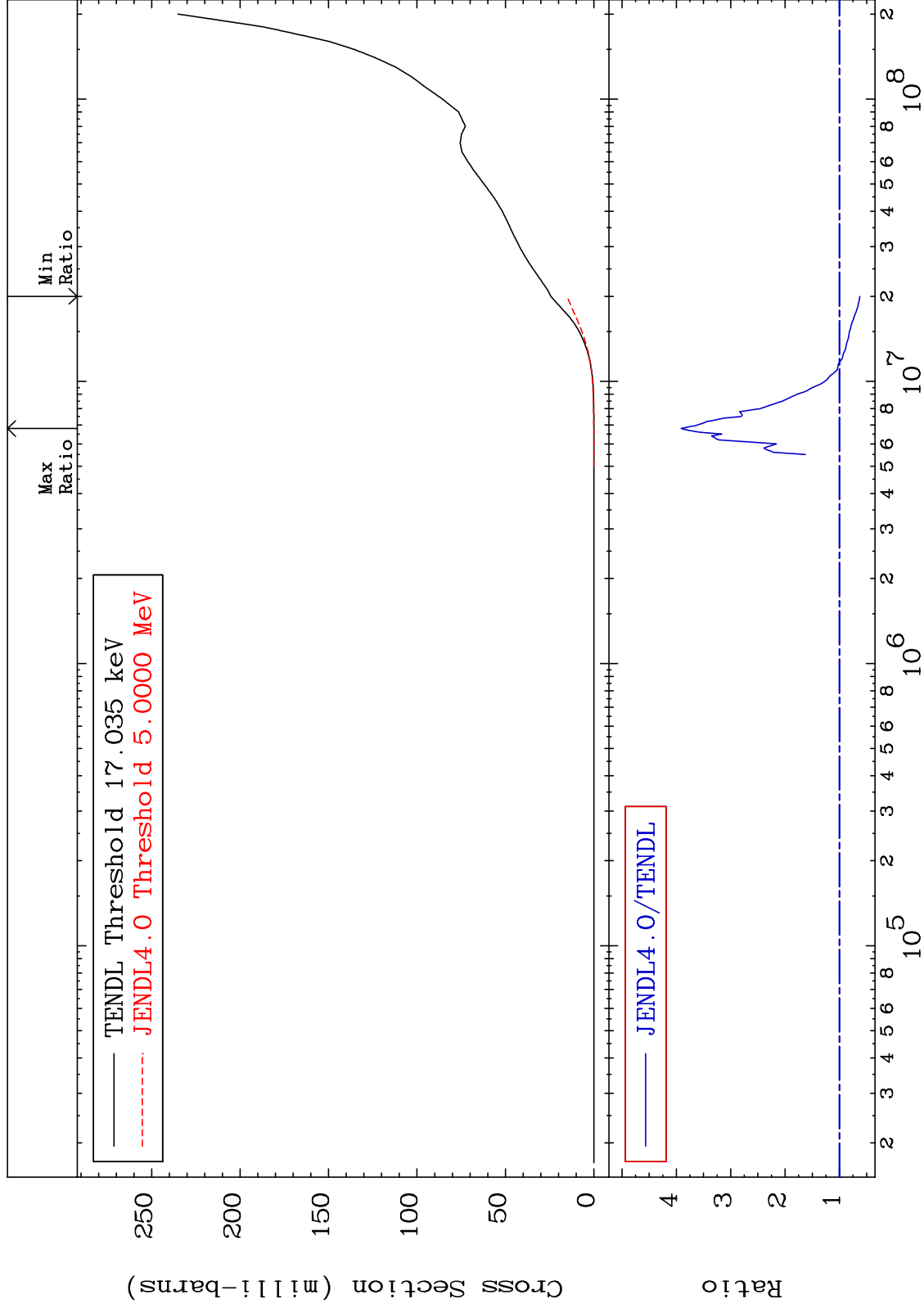
Incident Energy (eV)

37-Rb-85

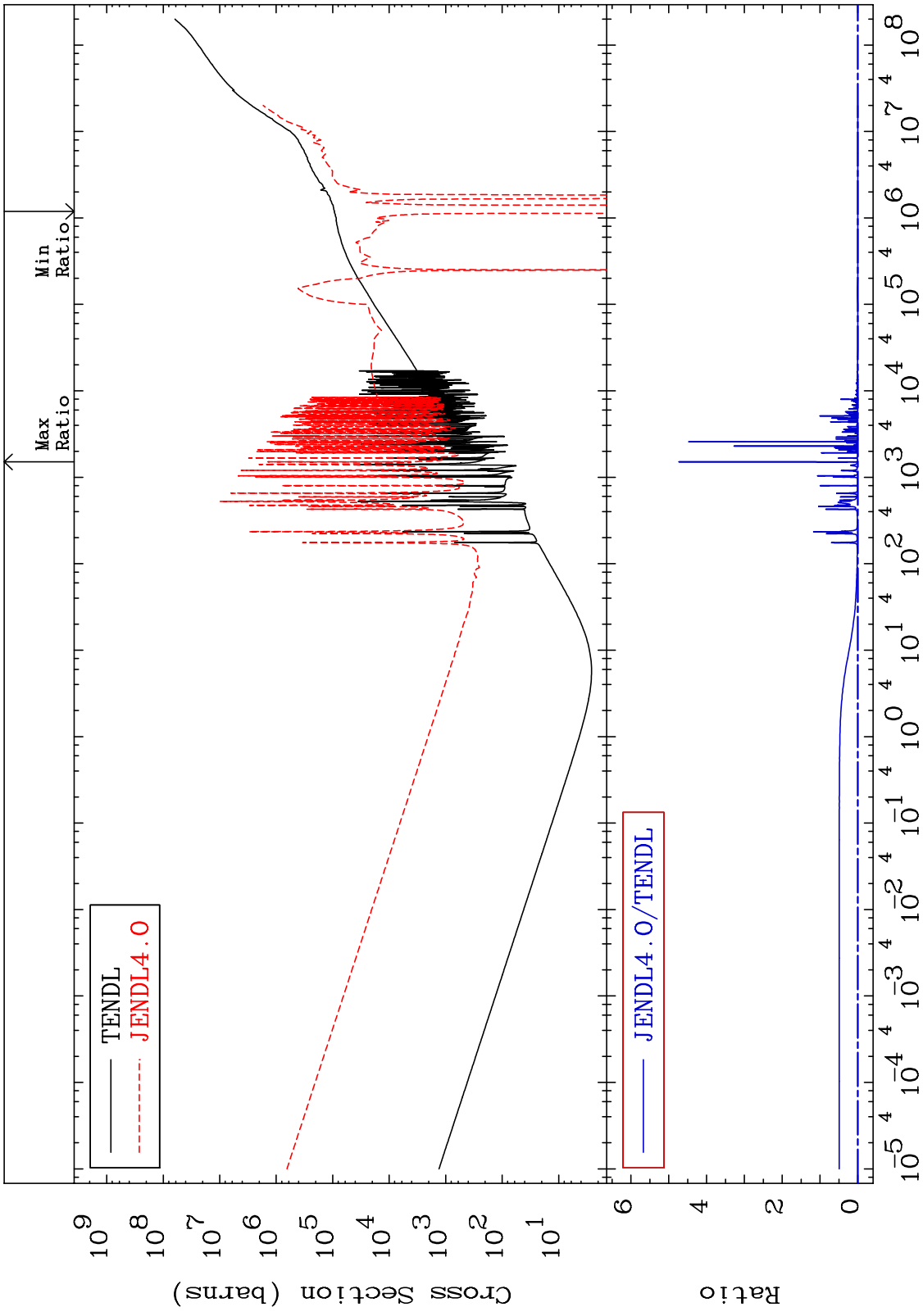
MAT 3725

He-4 Production
Cross Section

37-Rb-85
-37.40 To 291.0 %



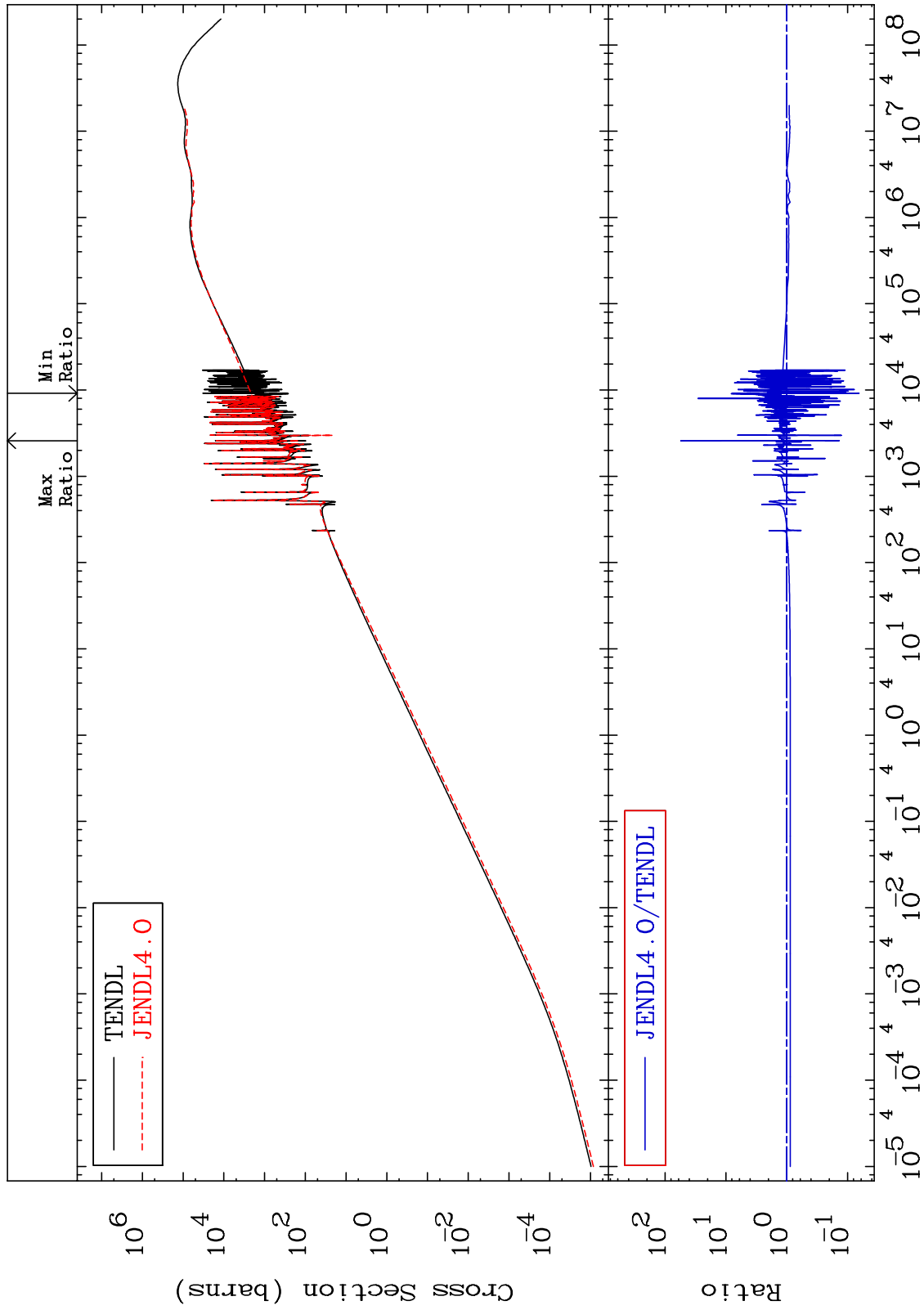
MAT 3725 Kerma total (eV-barns) Cross Section 37-Rb-85 -108.8 To 9999. %



MAT 3725

Kerma elastic
Cross Section

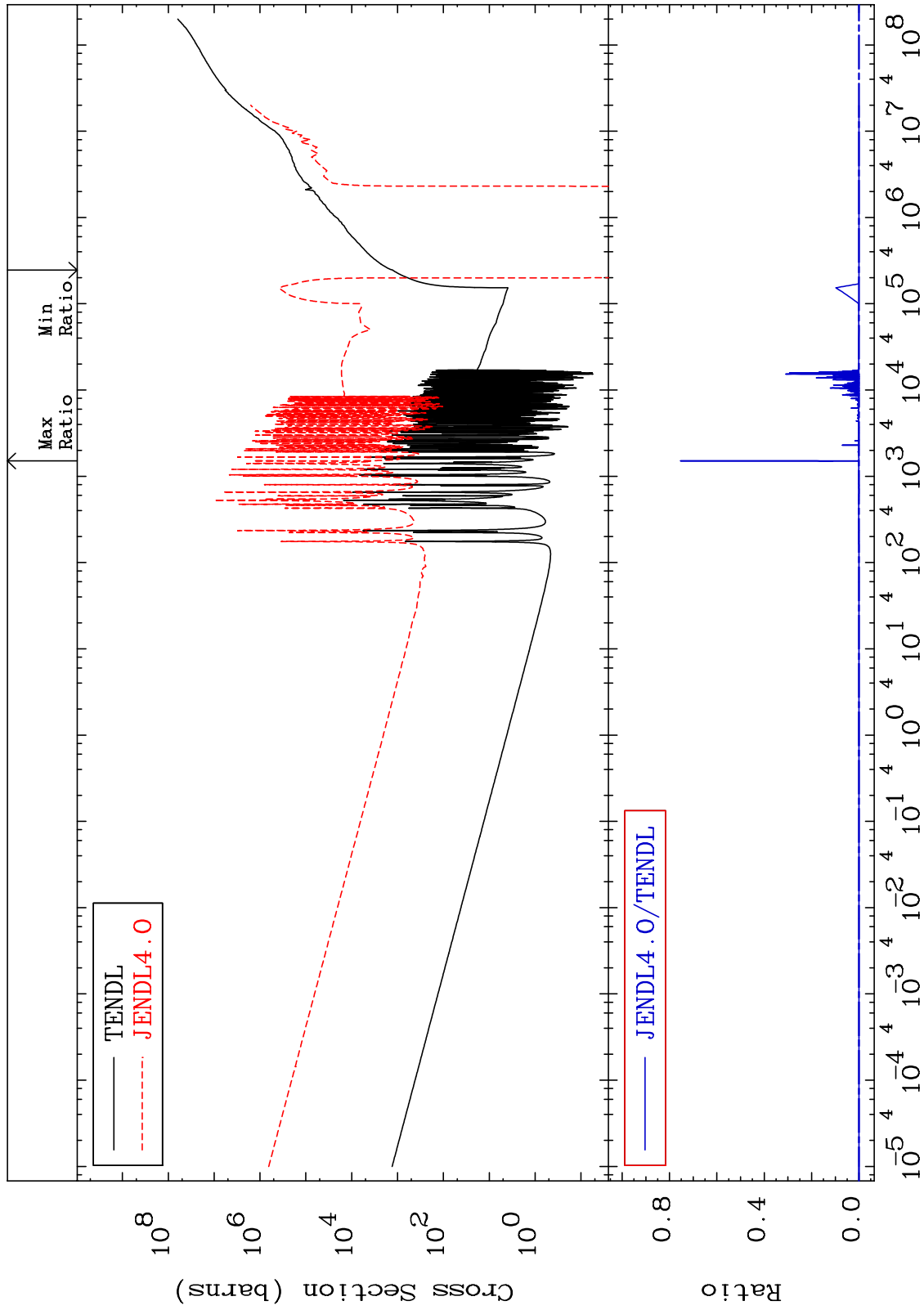
37-Rb-85
-93.50 To 5471. %



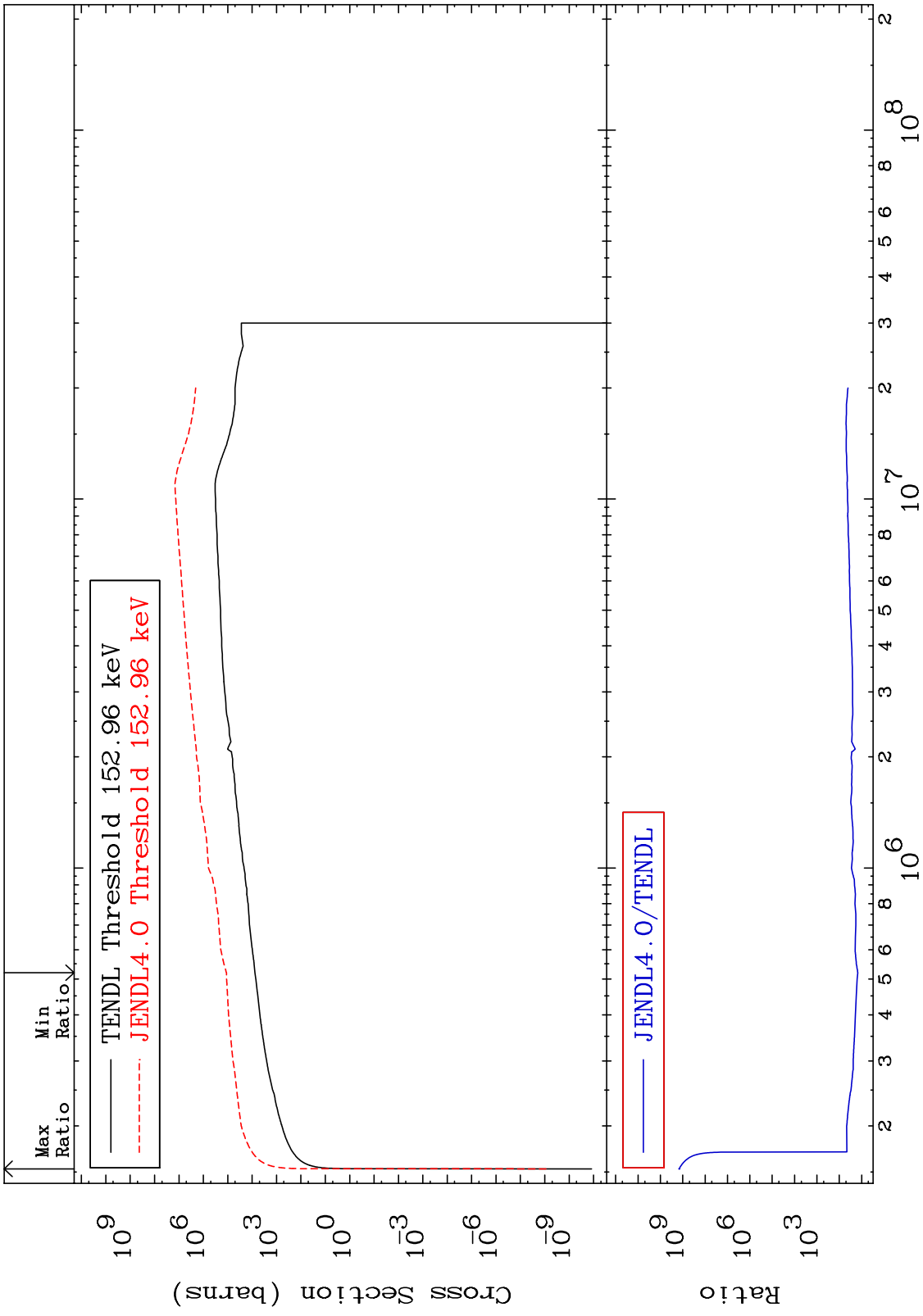
MAT 3725

Kerma non-elastic (all but mt2)
Cross Section

37-Rb-85
-2963. To 9999. %



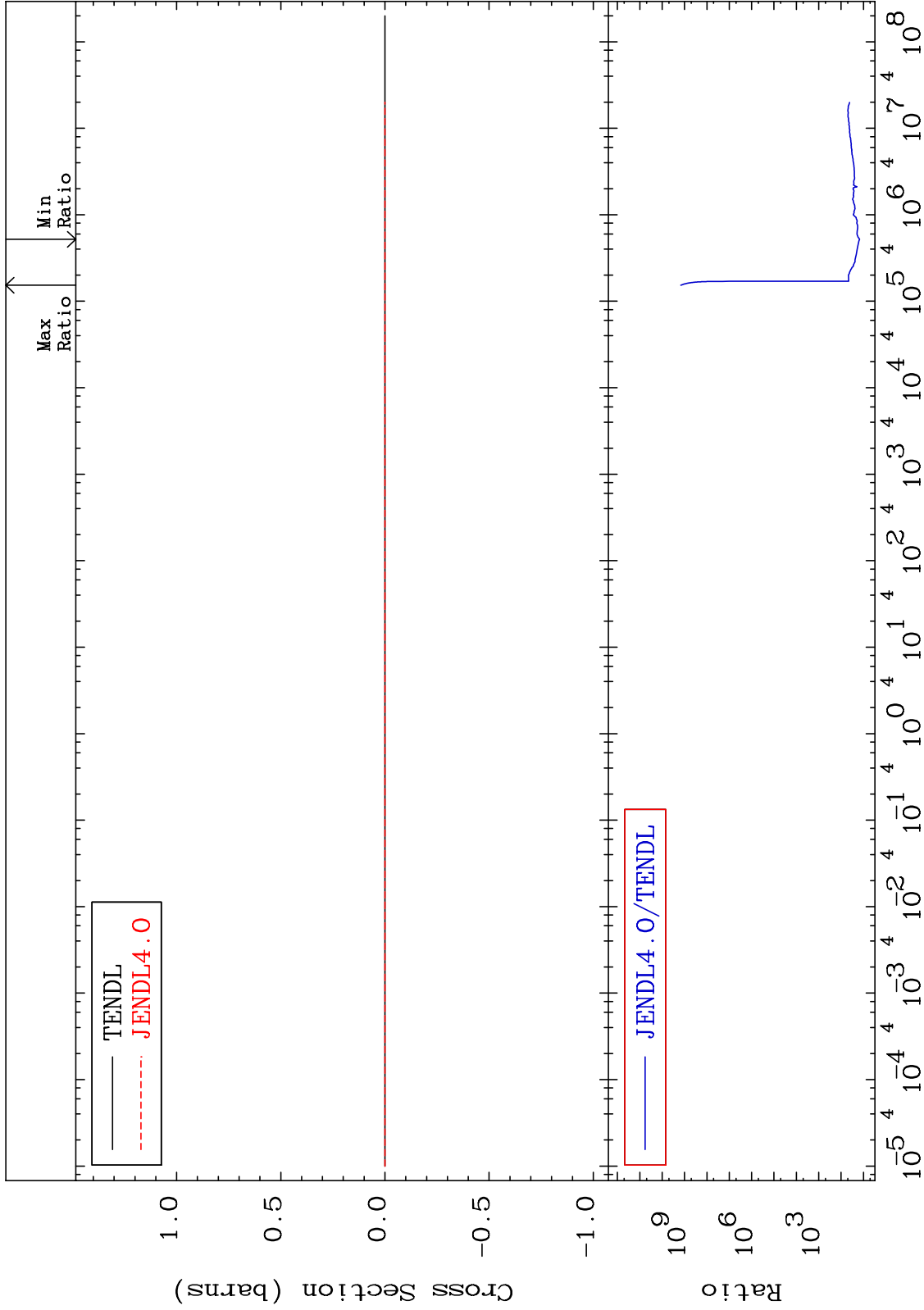
MAT 3725 Kerma inelastic (mt51-91) 37-Rb-85
 Cross Section 1380. To 9999. %



MAT 3725

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

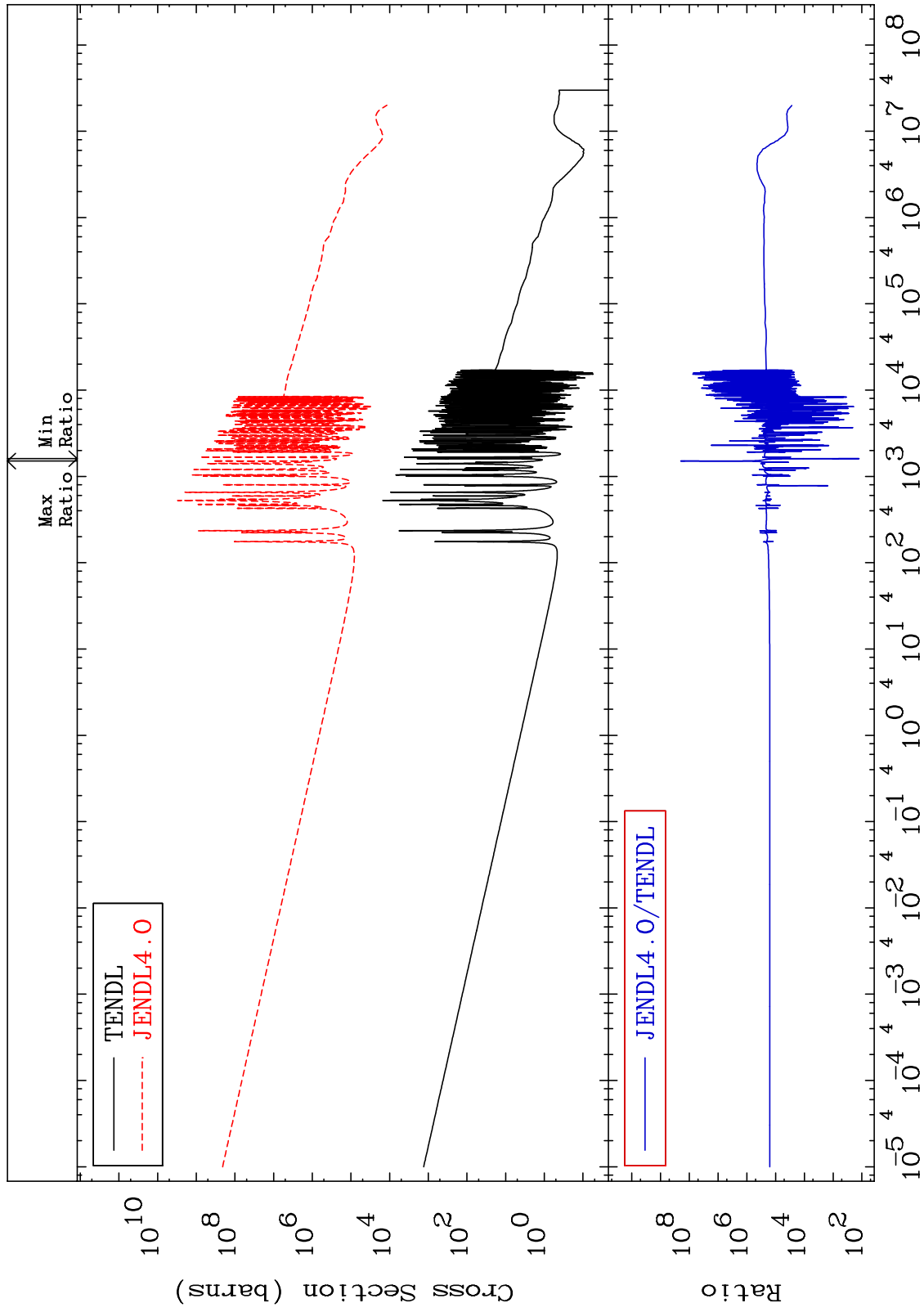
37-Rb-85
1380. To 9999. %



MAT 3725

Kerma capture (mt102)
Cross Section

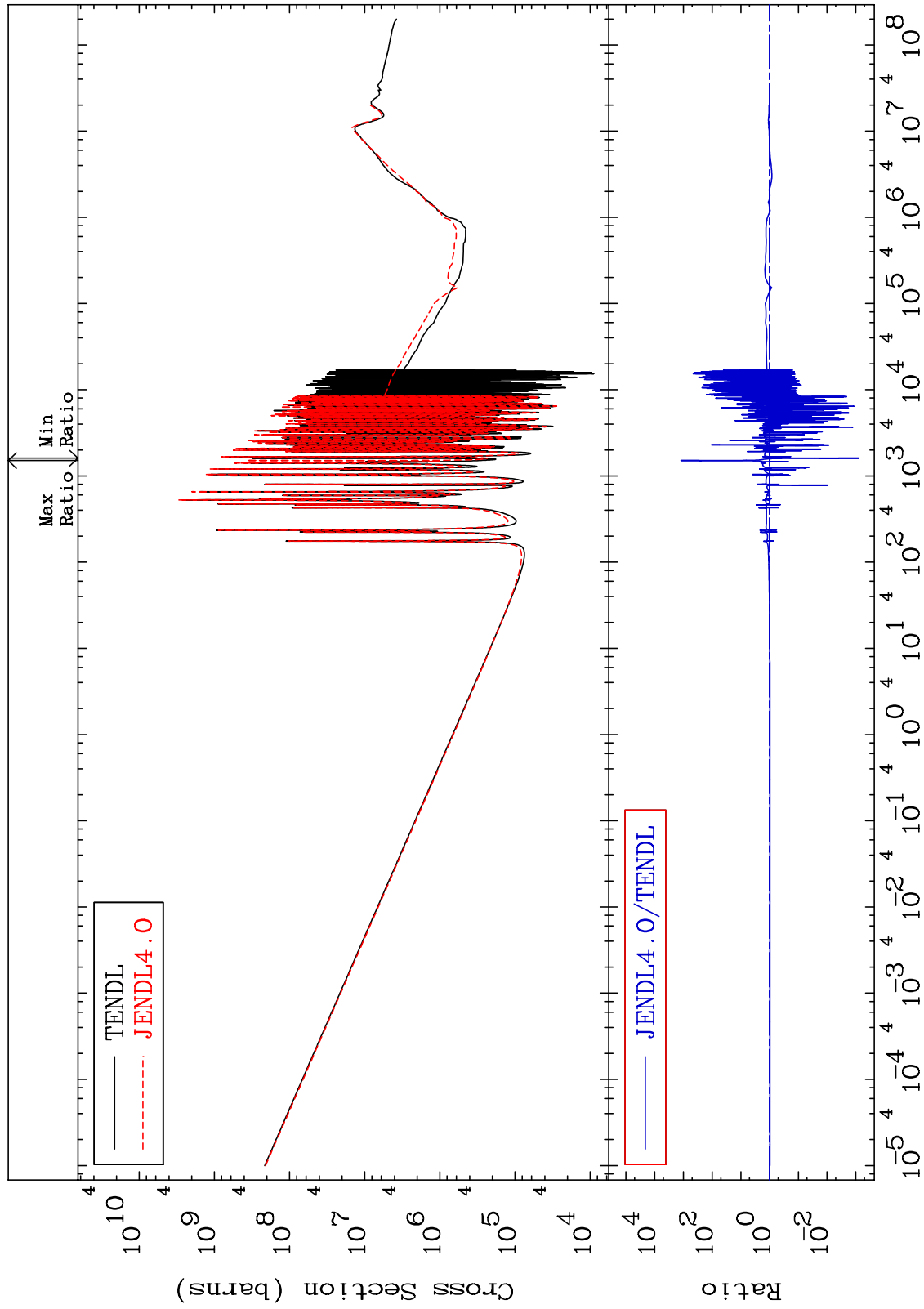
37-Rb-85
9999. To 9999. %



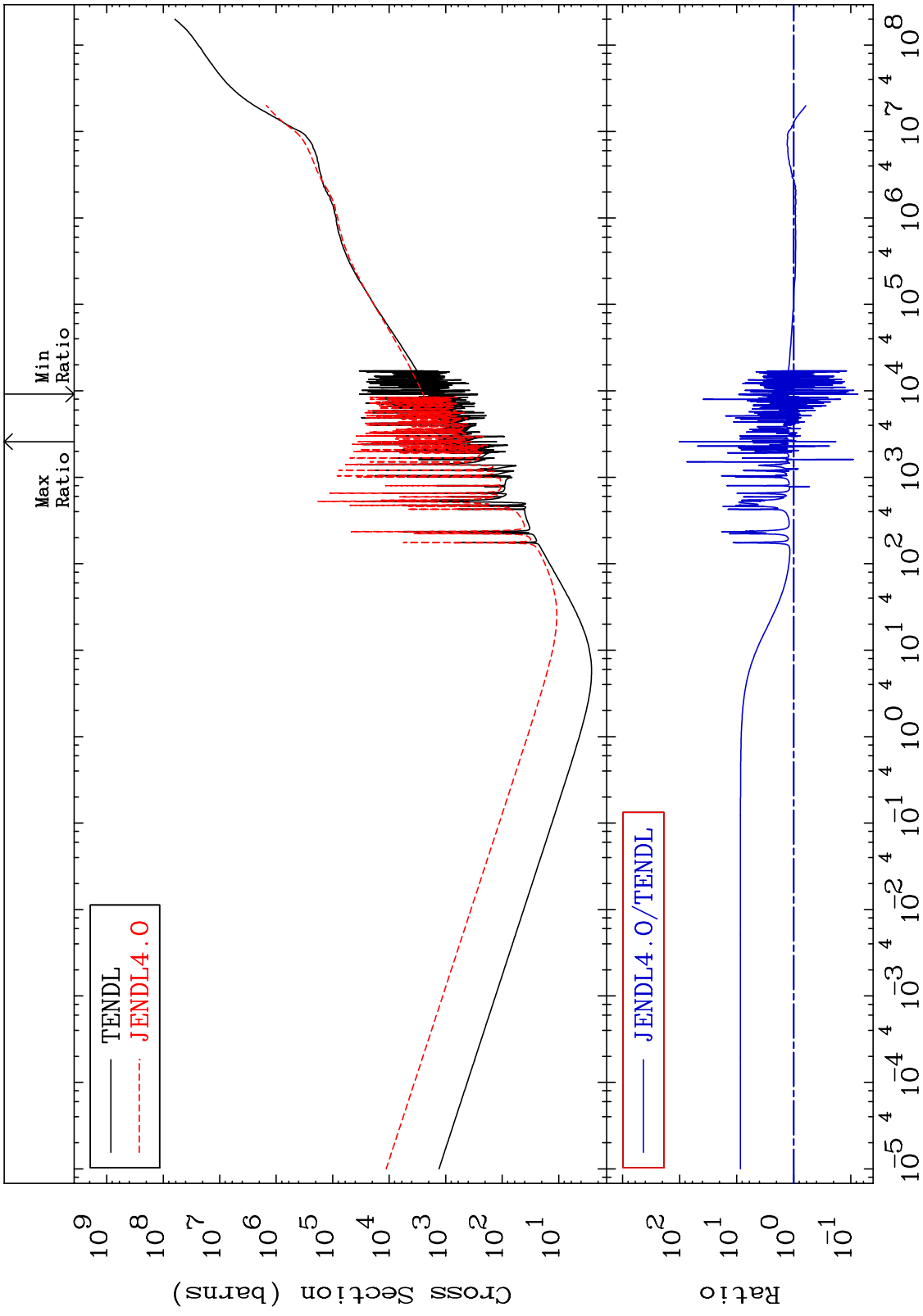
MAT 3725

Total photon (eV-barns)
Cross Section

37-Rb-85
-99.92 To 9999. %



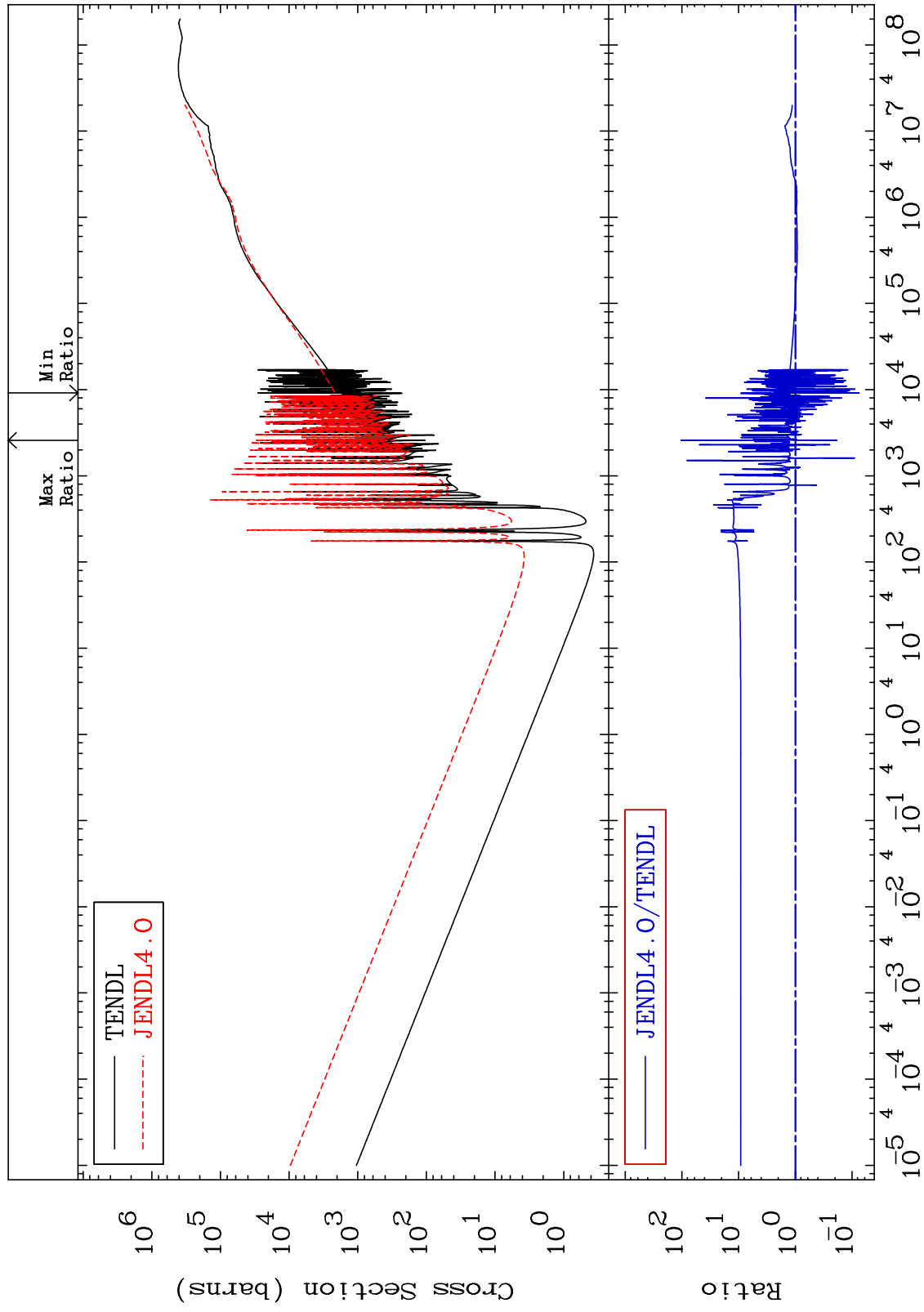
MAT 3725 Total kinematic kerma (high limit) 37-Rb-85
 Cross Section -92.47 To 9999. %



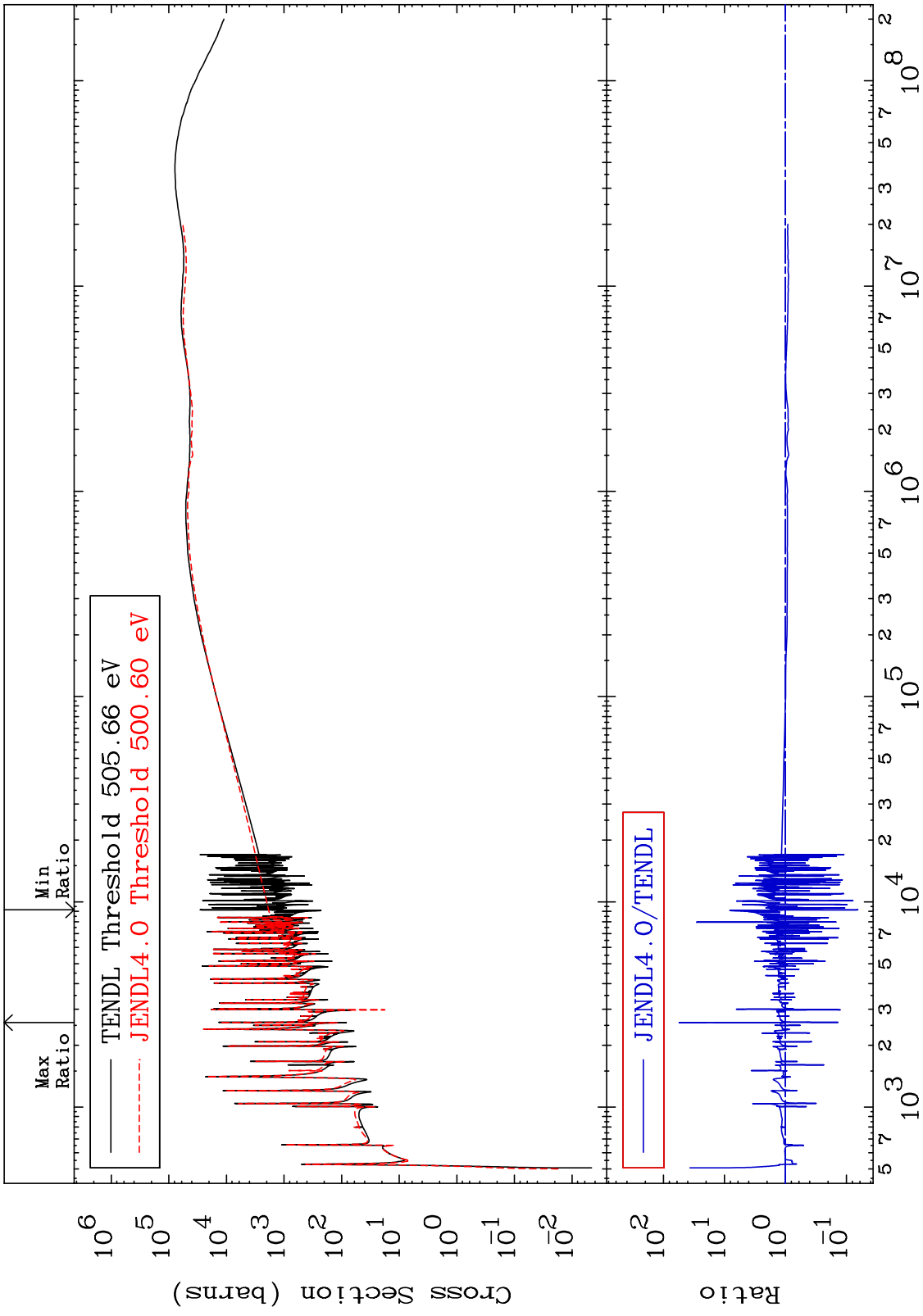
MAT 3725

Dpa total (eV-barns)
Cross Section

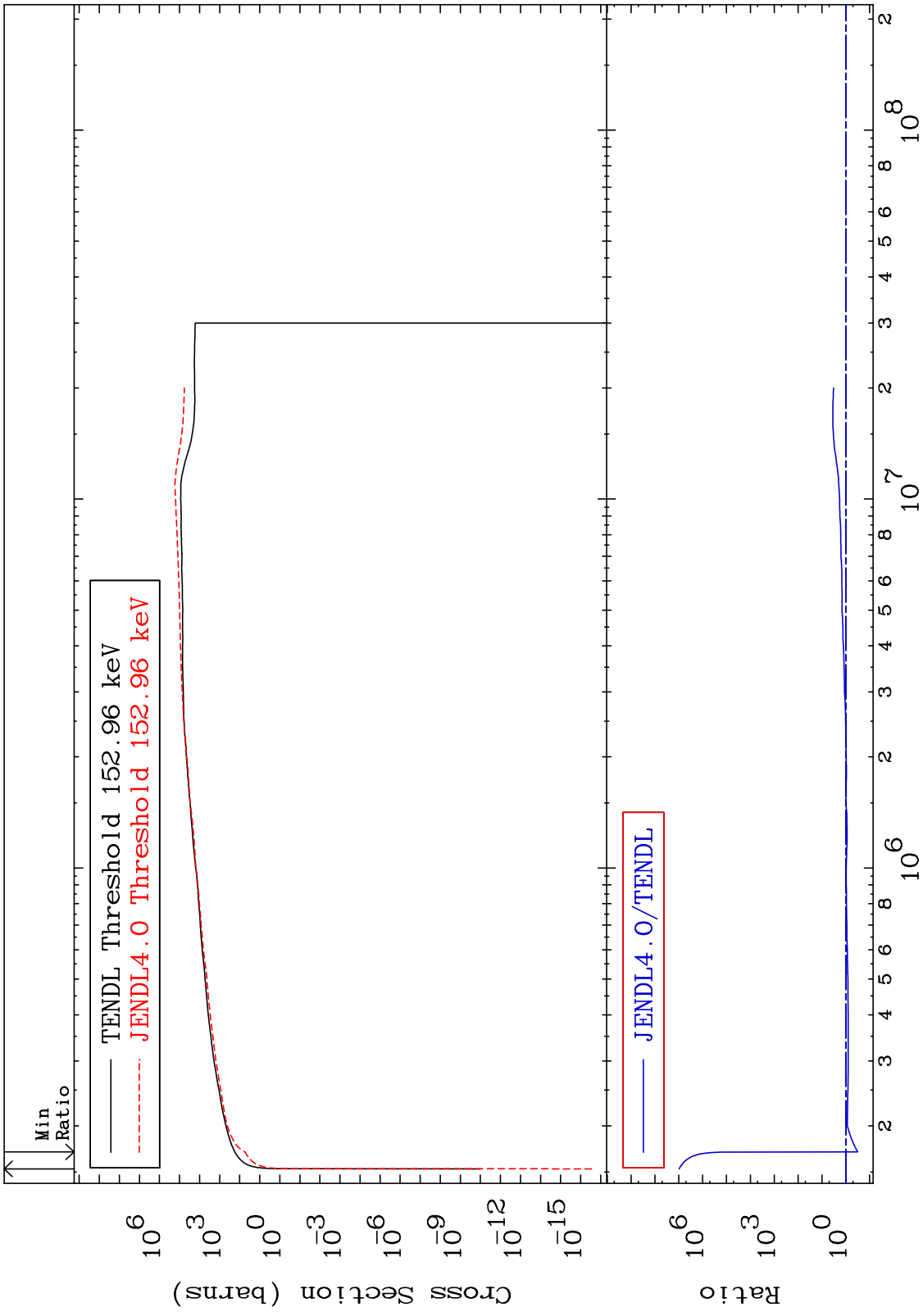
37-Rb-85
-92.49 To 9999. %



MAT 3725 Dpa elastic (mt2) 37-Rb-85
 Cross Section -93.50 To 5470. %



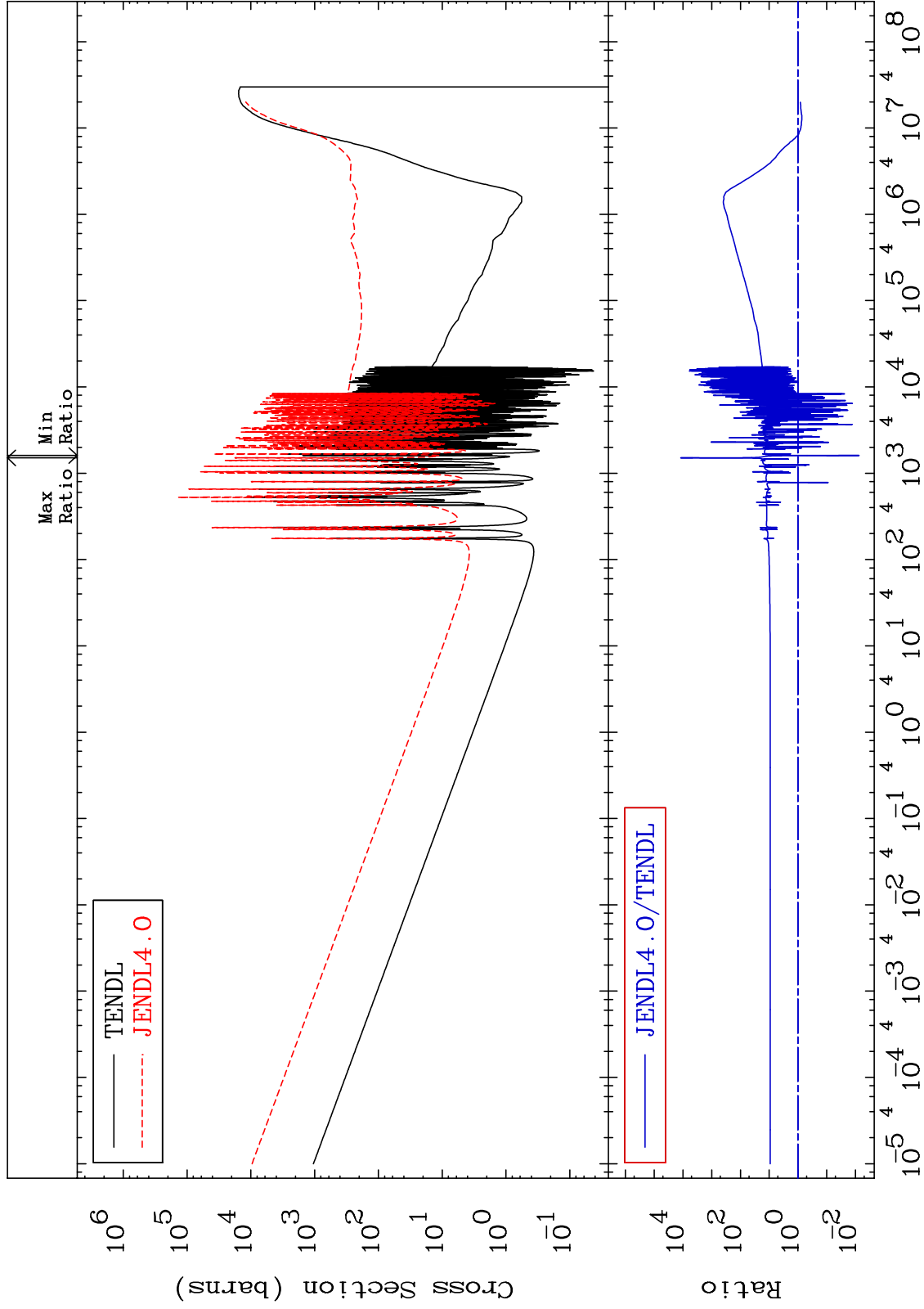
MAT 3725 Dpa inelastic (mt51-91) 37-Rb-85
 Cross Section -68.66 To 9999. %



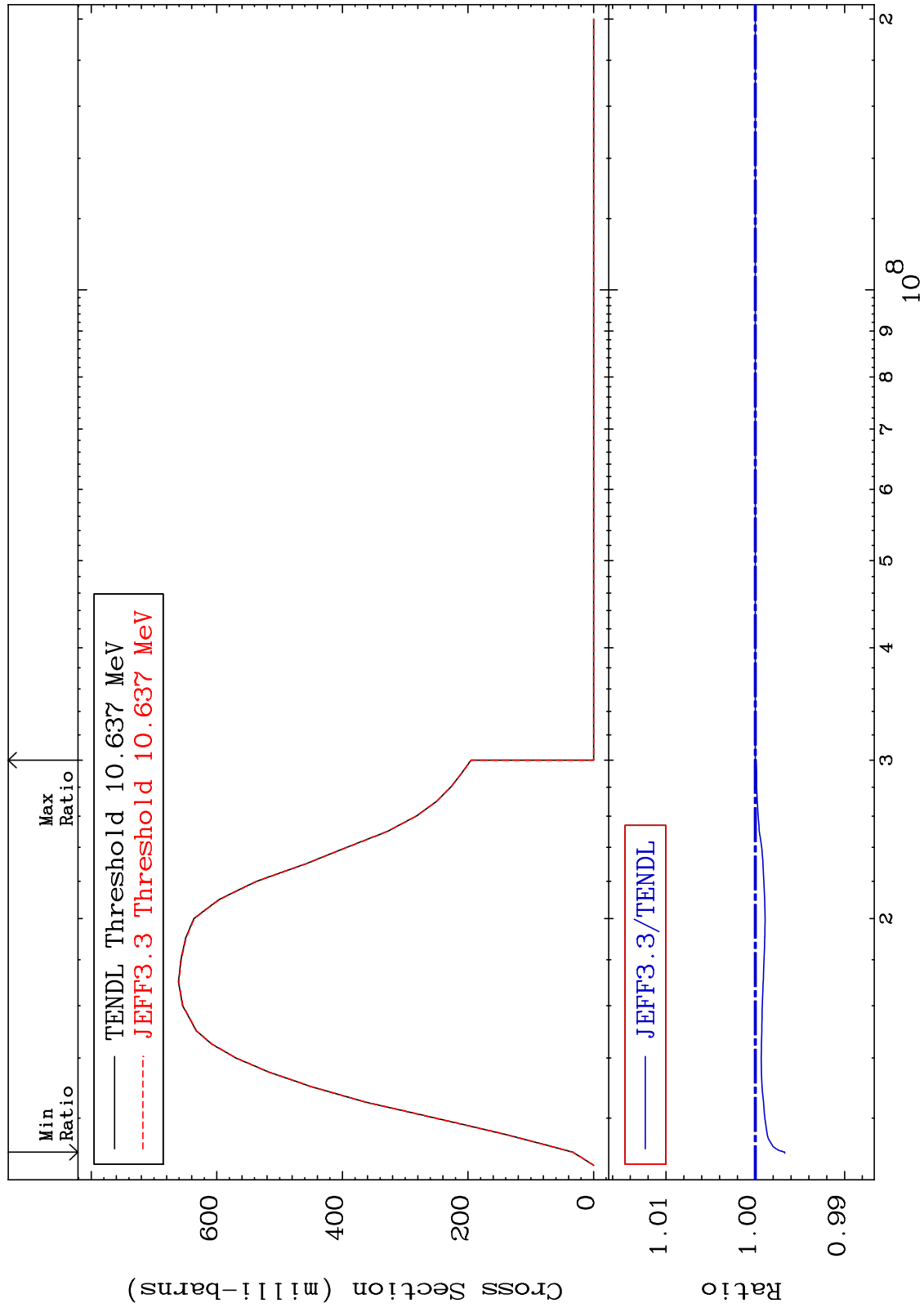
MAT 3725

Dpa disappearance (mt102 -120)
Cross Section

37-Rb-85
-99.24 To 9999. %



MAT 3725 (n,2n):37-Rb-84g 37-Rb-85
Radionuclide Production Cross Section -0.329 To 0.000 %

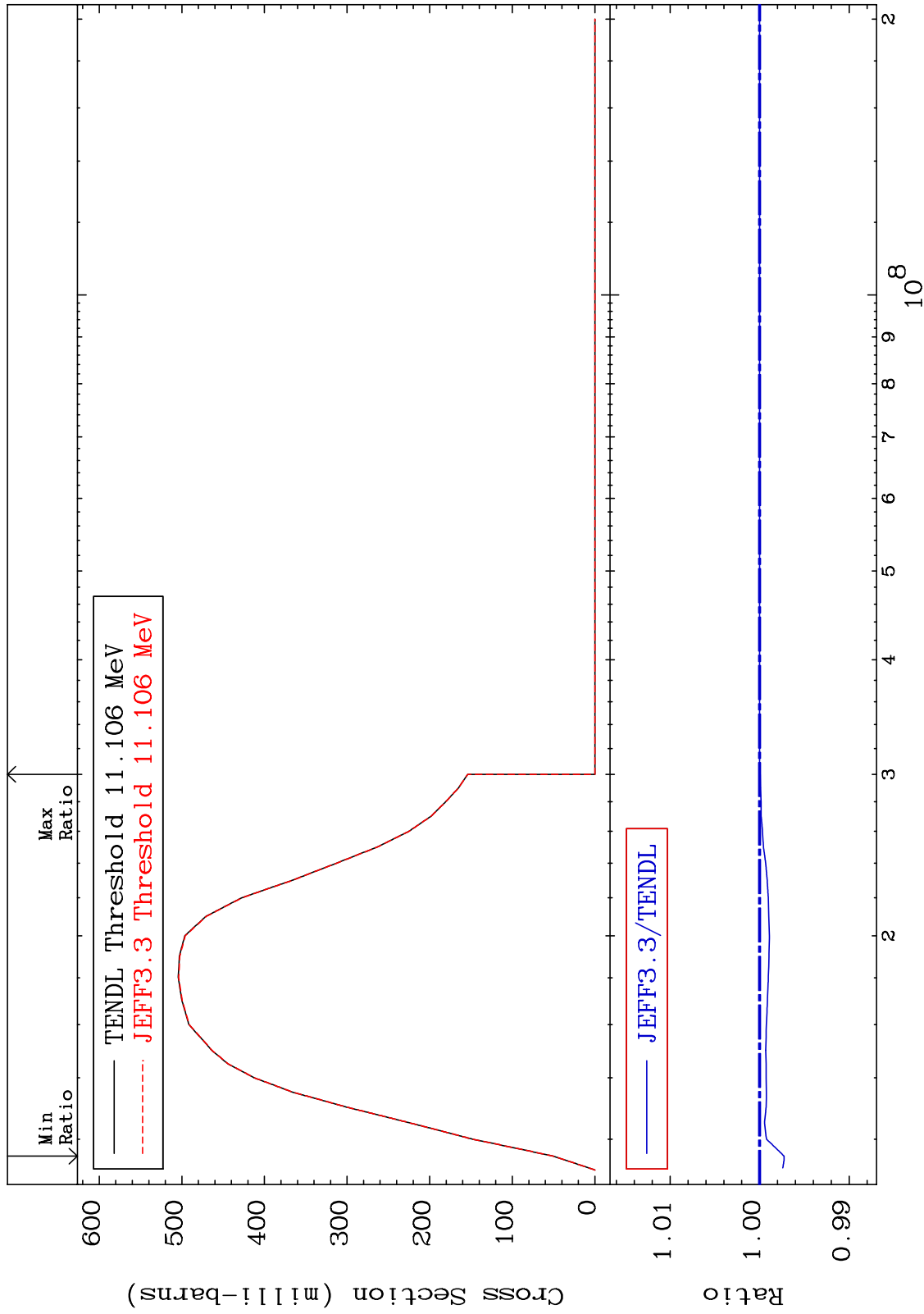


MAT 3725

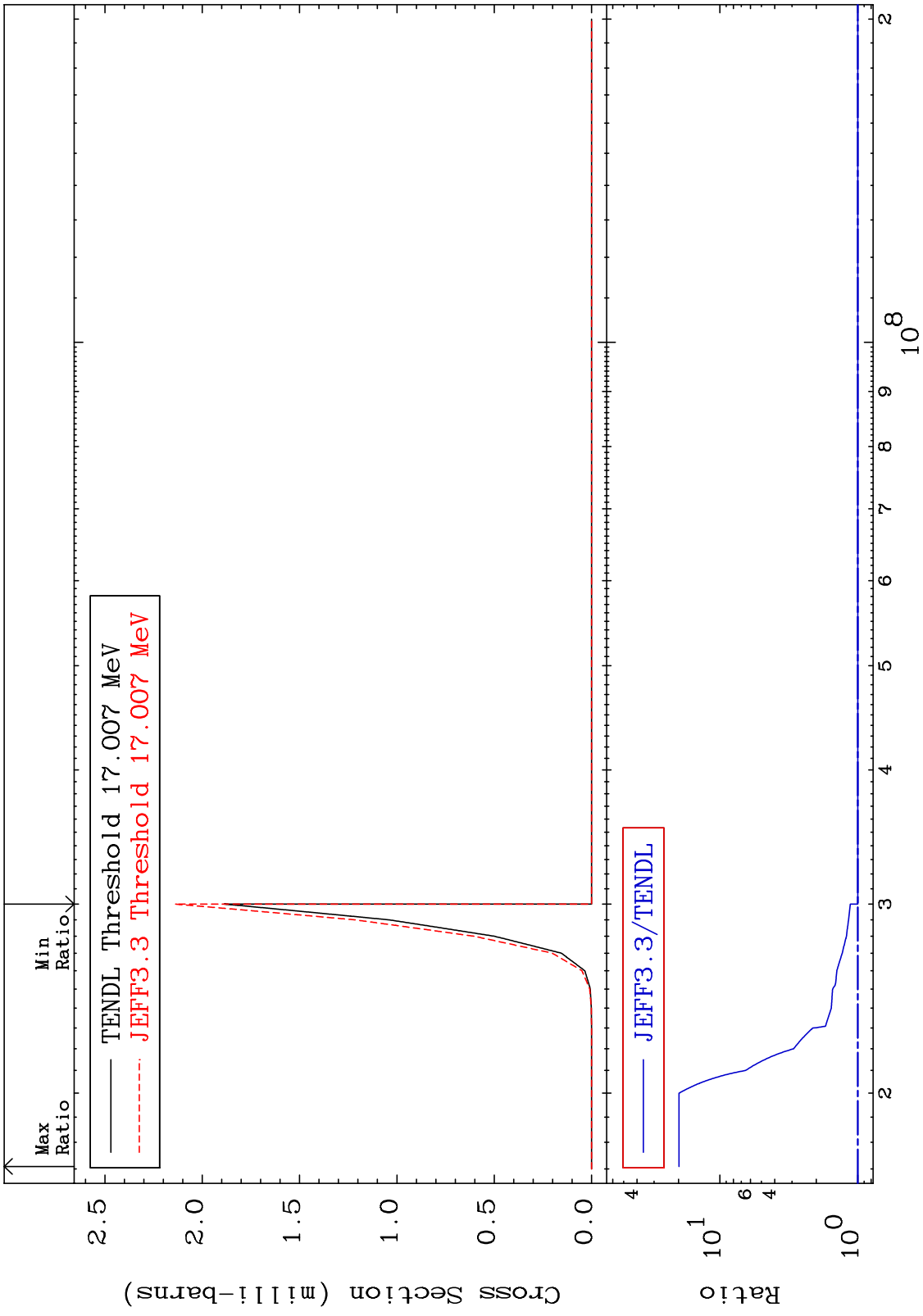
(n,2n):37-Rb-84m2

37-Rb-85

Radionuclide Production Cross Section -0.273 To 0.000 %



MAT 3725 (n,2n) α : 35-Br-80g 37-Rb-85
 Radionuclide Production Cross Section 0.000 To 1880. %

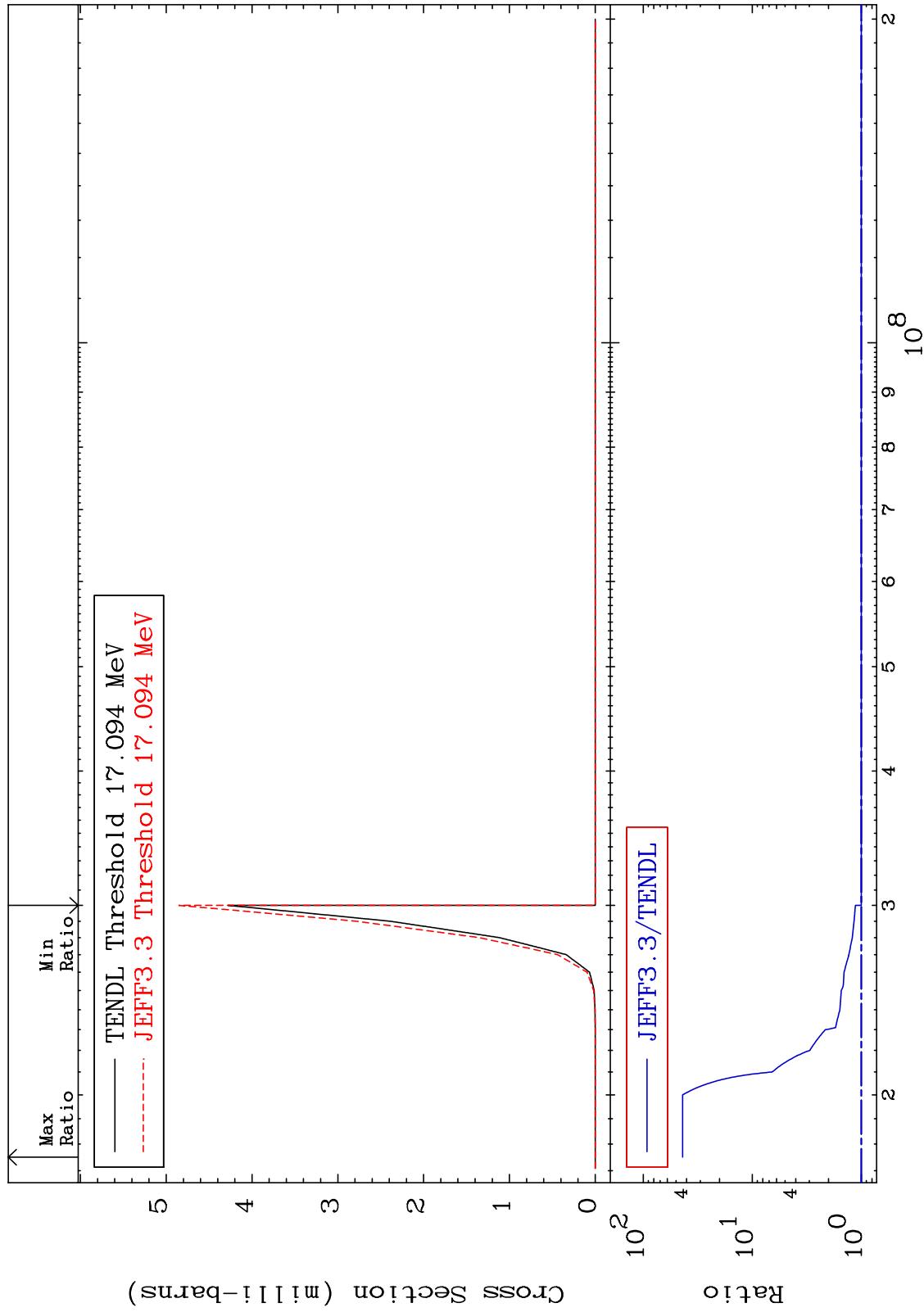


MAT 3725

(n,2n) α :35-Br-80m2

37-Rb-85

Radionuclide Production Cross Section 0.000 To 4248. %



65

Incident Energy (eV)

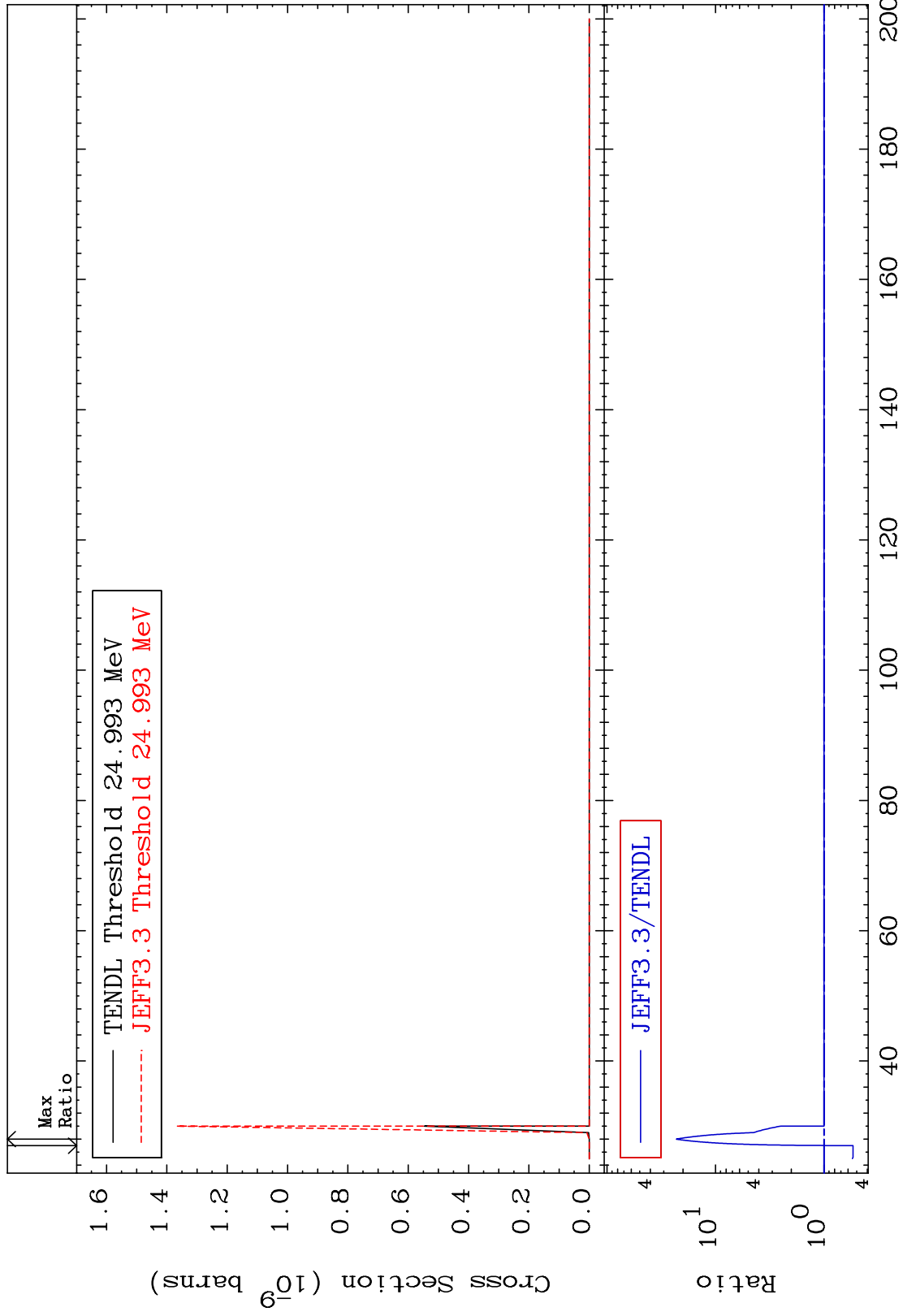
37-Rb-85

MAT 3725

(n,3n) α : 35-Br-79g

37-Rb-85

Radionuclide Production Cross Section -45.98 To 2219. %

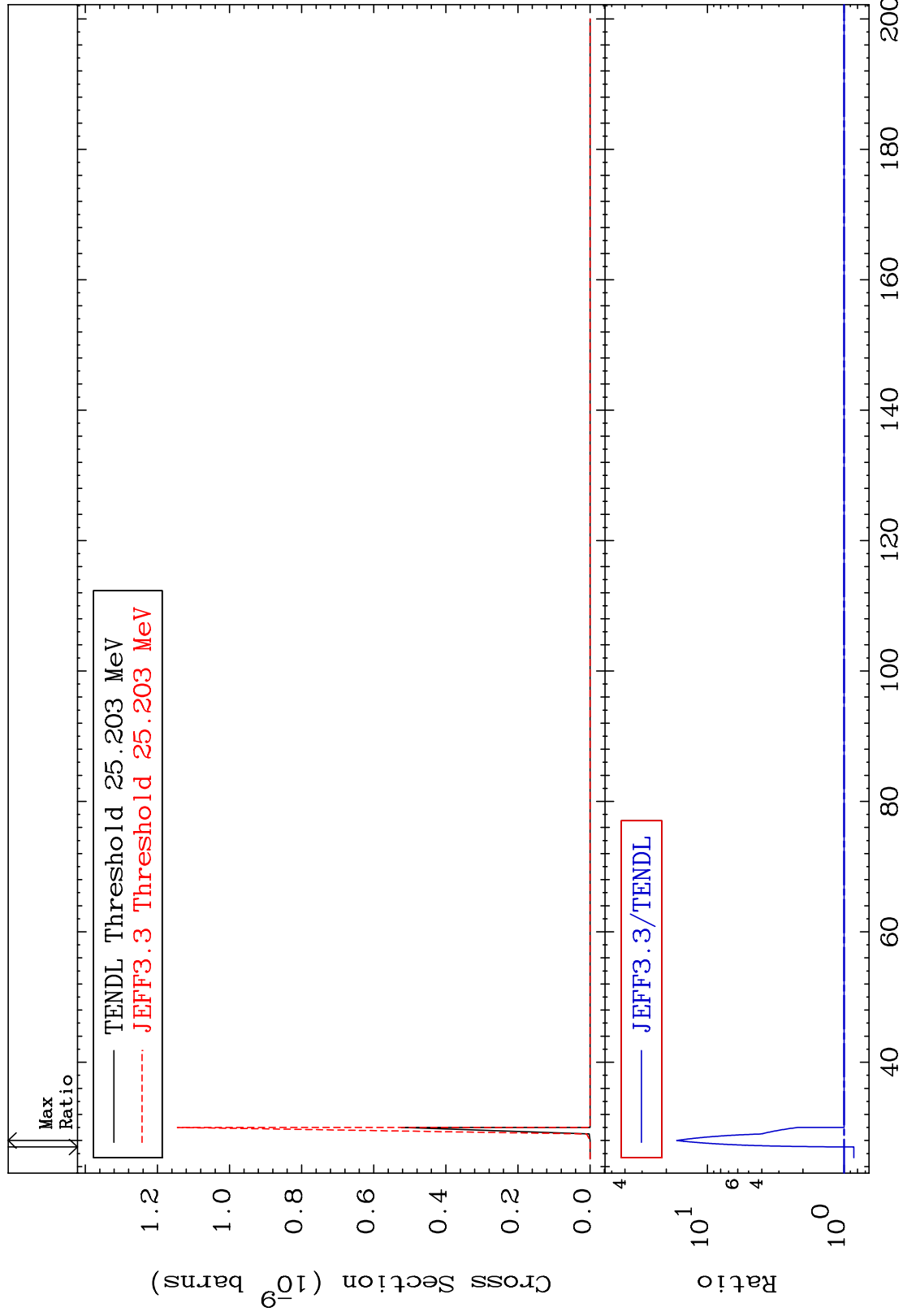


MAT 3725

(n,3n) α :35-Br-79m1

37-Rb-85

Radionuclide Production Cross Section -15.05 To 1574. %



67

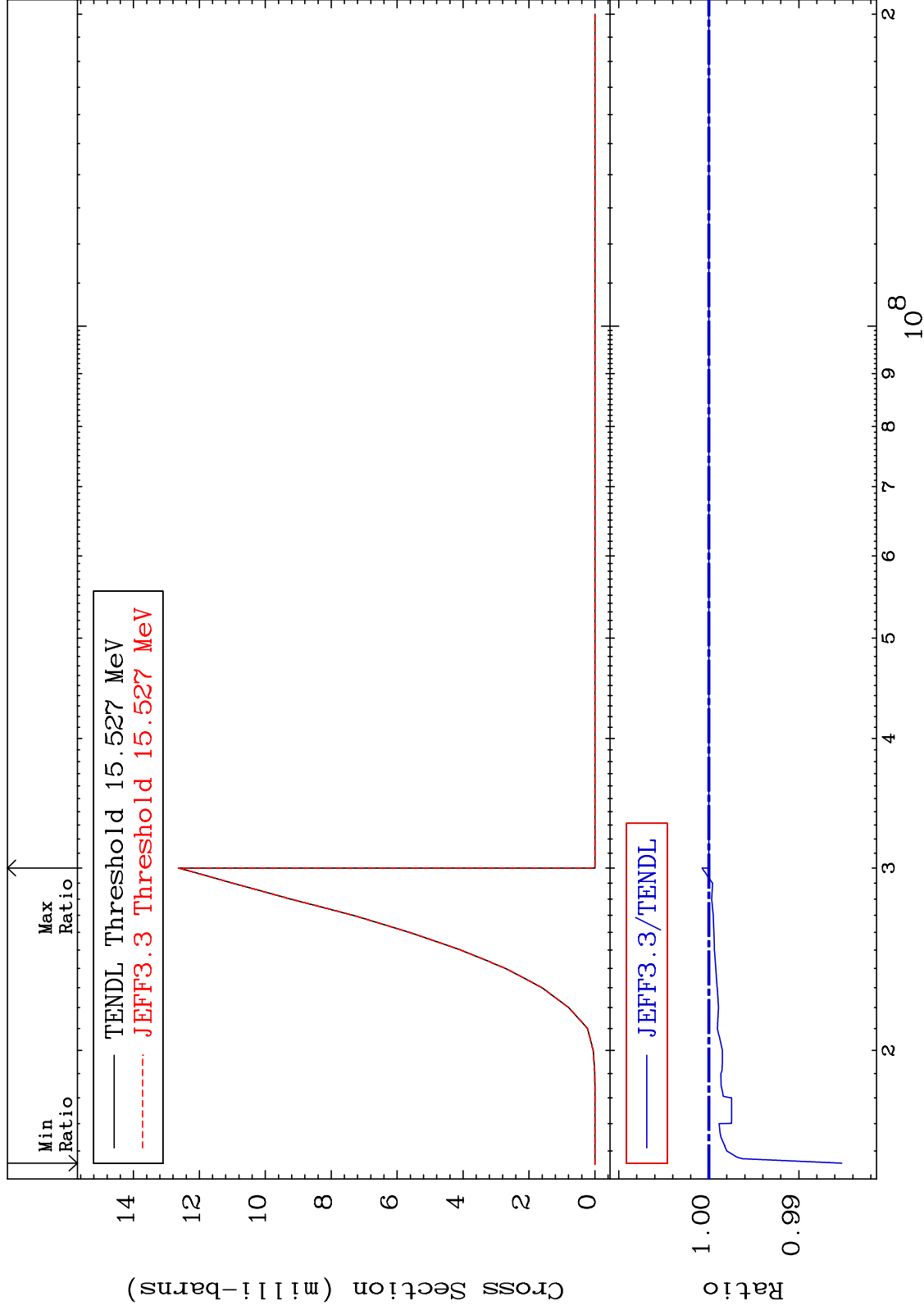
37-Rb-85

MAT 3725

(n, n') d: 36-Kr-83g

37-Rb-85

Radionuclide Production Cross Section -1.477 To 0.076 %



68

Incident Energy (eV)

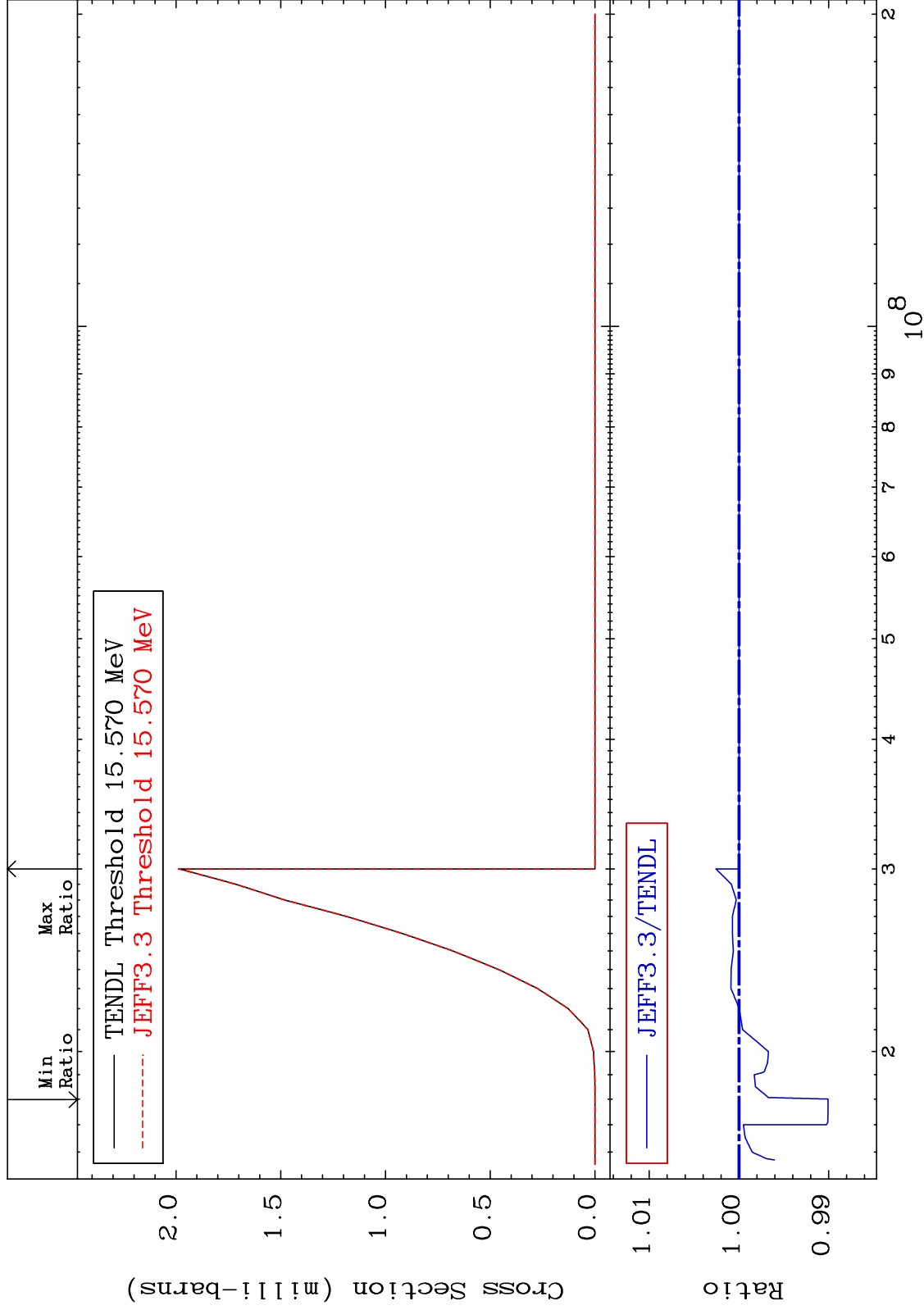
37-Rb-85

MAT 3725

(n, n') d:36-Kr-83m2

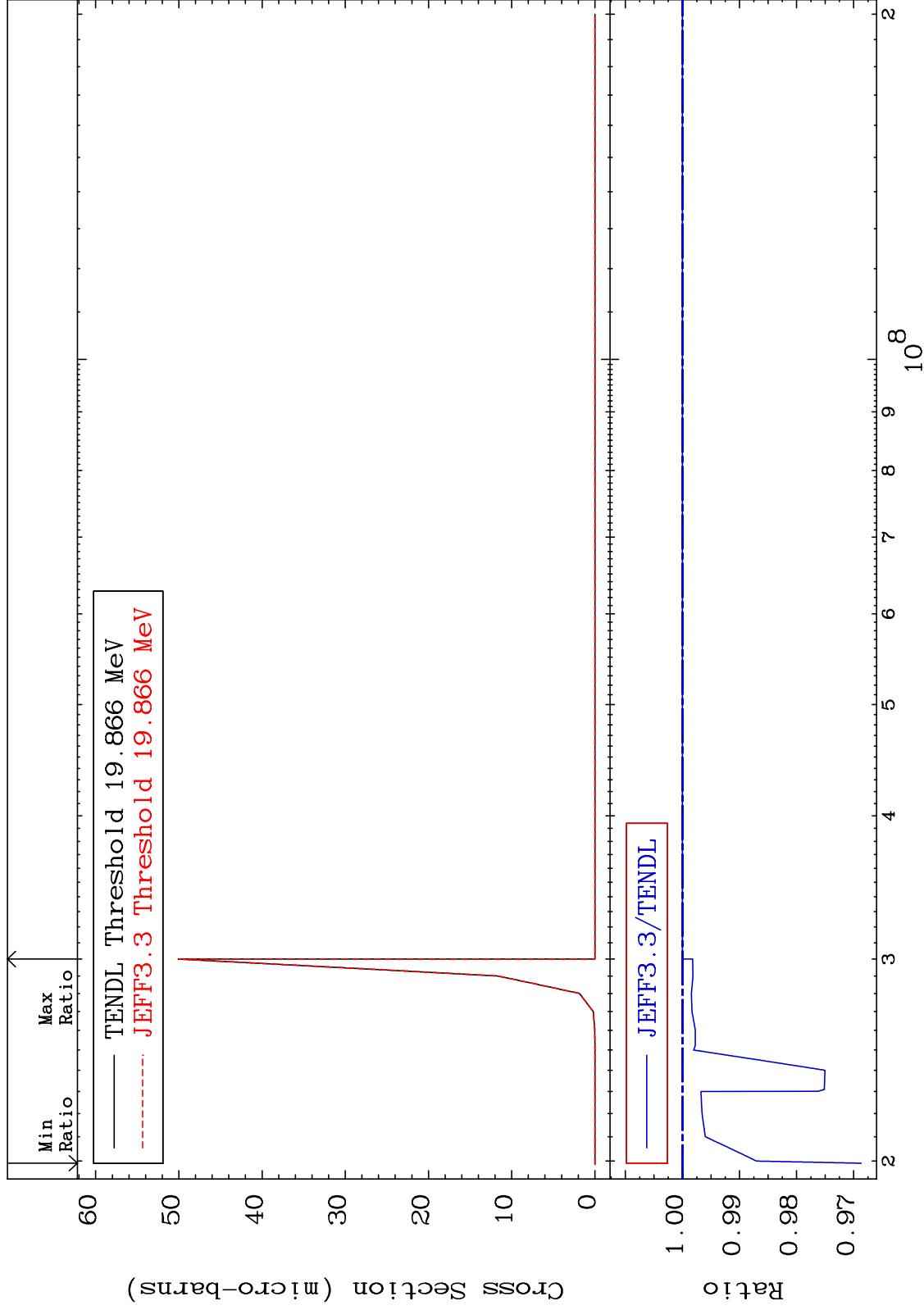
37-Rb-85

Radionuclide Production Cross Section -0.992 To 0.259 %



MAT 3725

(n,n') He-3:35-Br-82g 37-Rb-85
Radionuclide Production Cross Section -3.133 To 0.000 %



70

Incident Energy (eV)

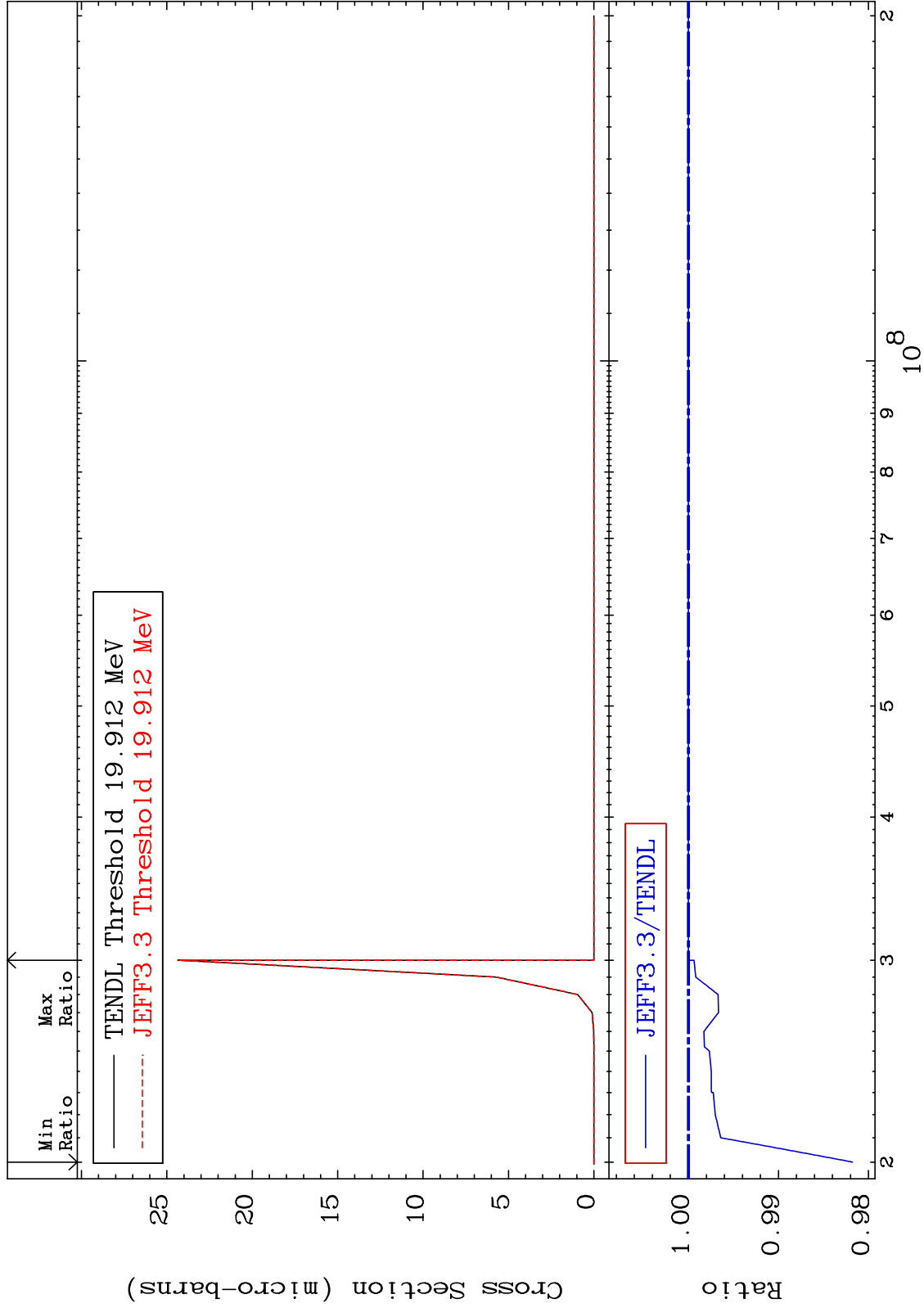
37-Rb-85

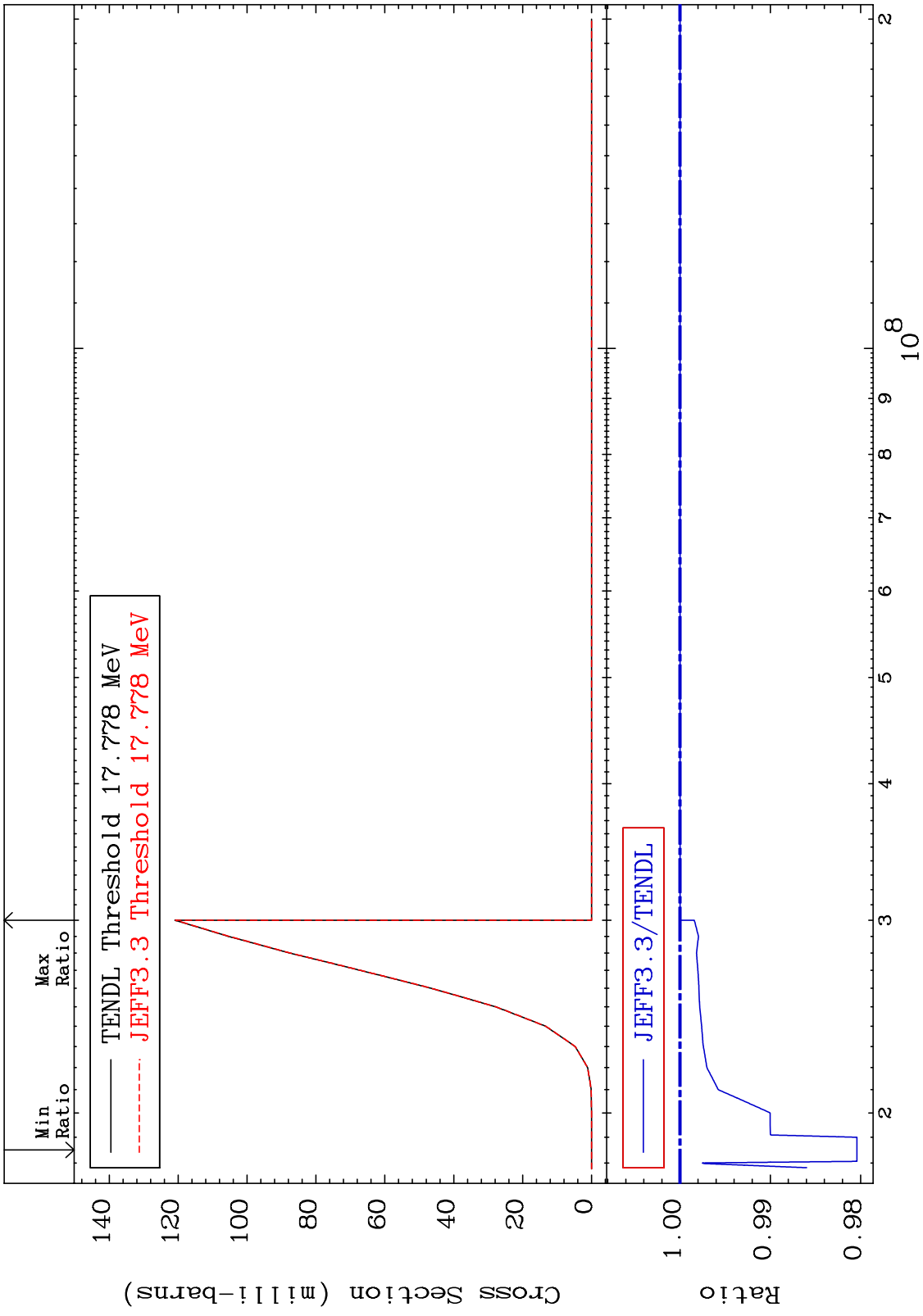
MAT 3725

(n,n') He-3:35-Br-82m1

37-Rb-85

Radionuclide Production Cross Section -1.823 To 0.000 %



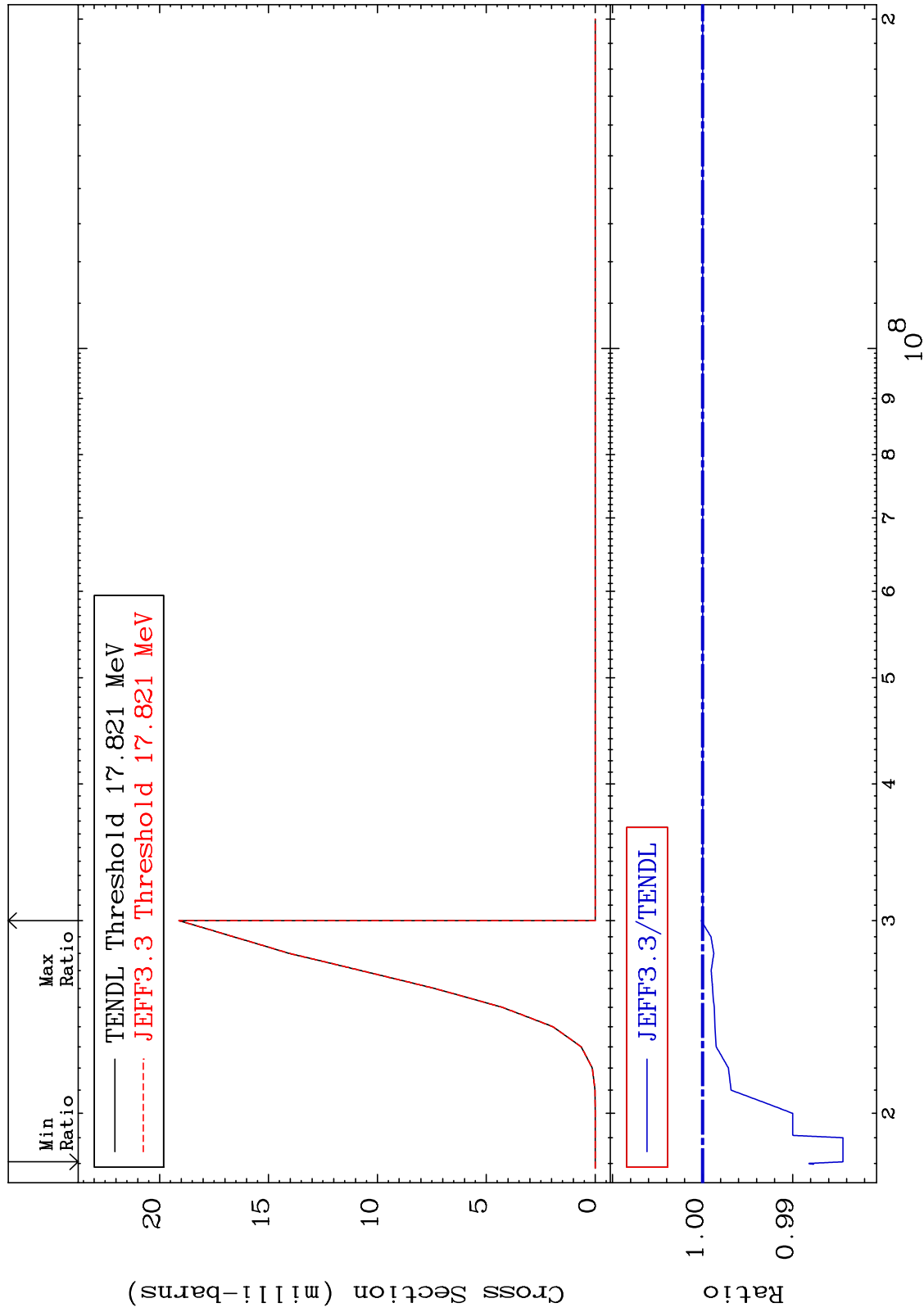


MAT 3725

(n,2n) p:36-Kr-83m2

37-Rb-85

Radionuclide Production Cross Section -1.558 To 0.017 %



73

Incident Energy (eV)

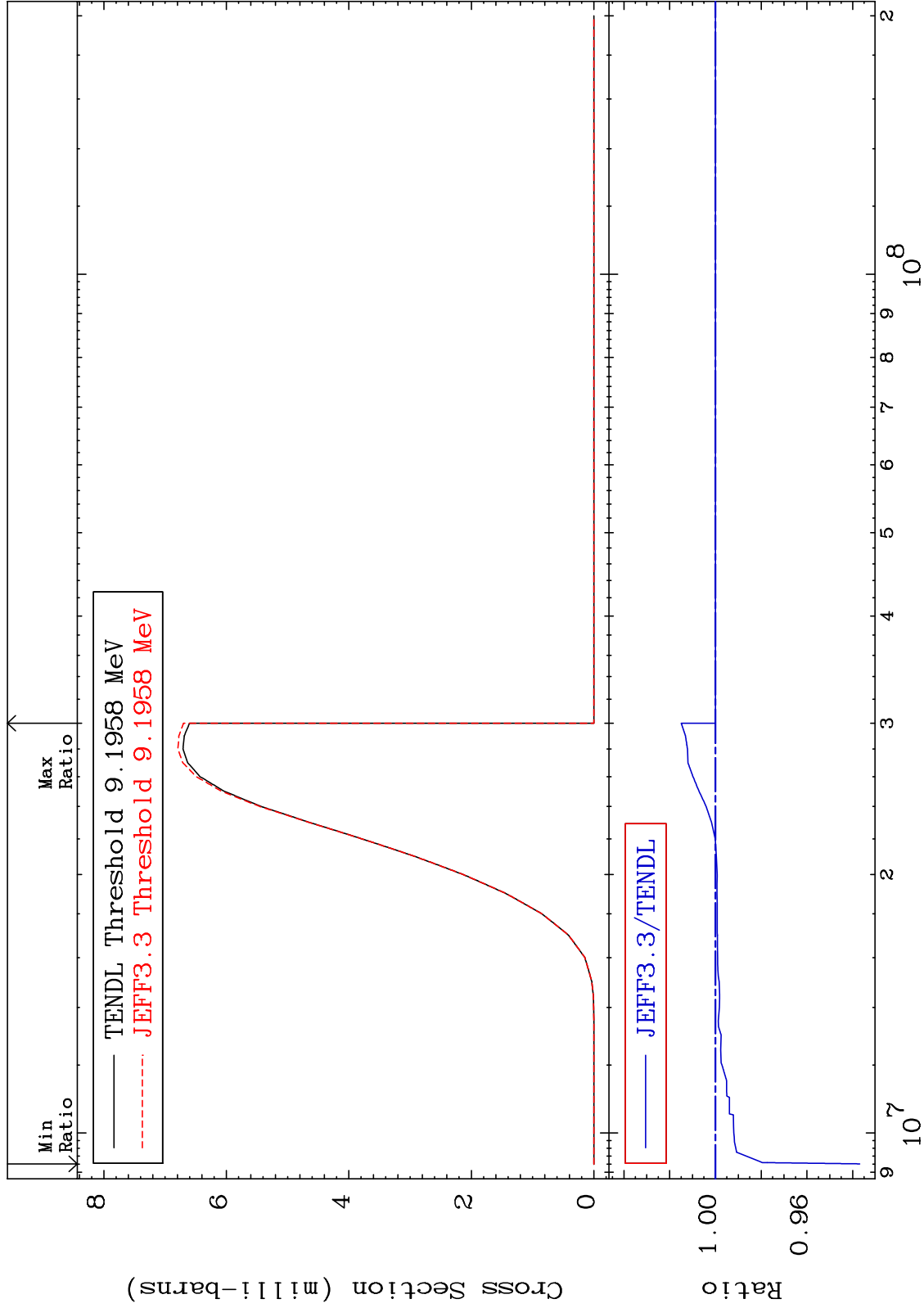
37-Rb-85

MAT 3725

(n, t) : 36-Kr-83g

37-Rb-85

Radionuclide Production Cross Section -6.308 To 1.494 %



74

Incident Energy (eV)

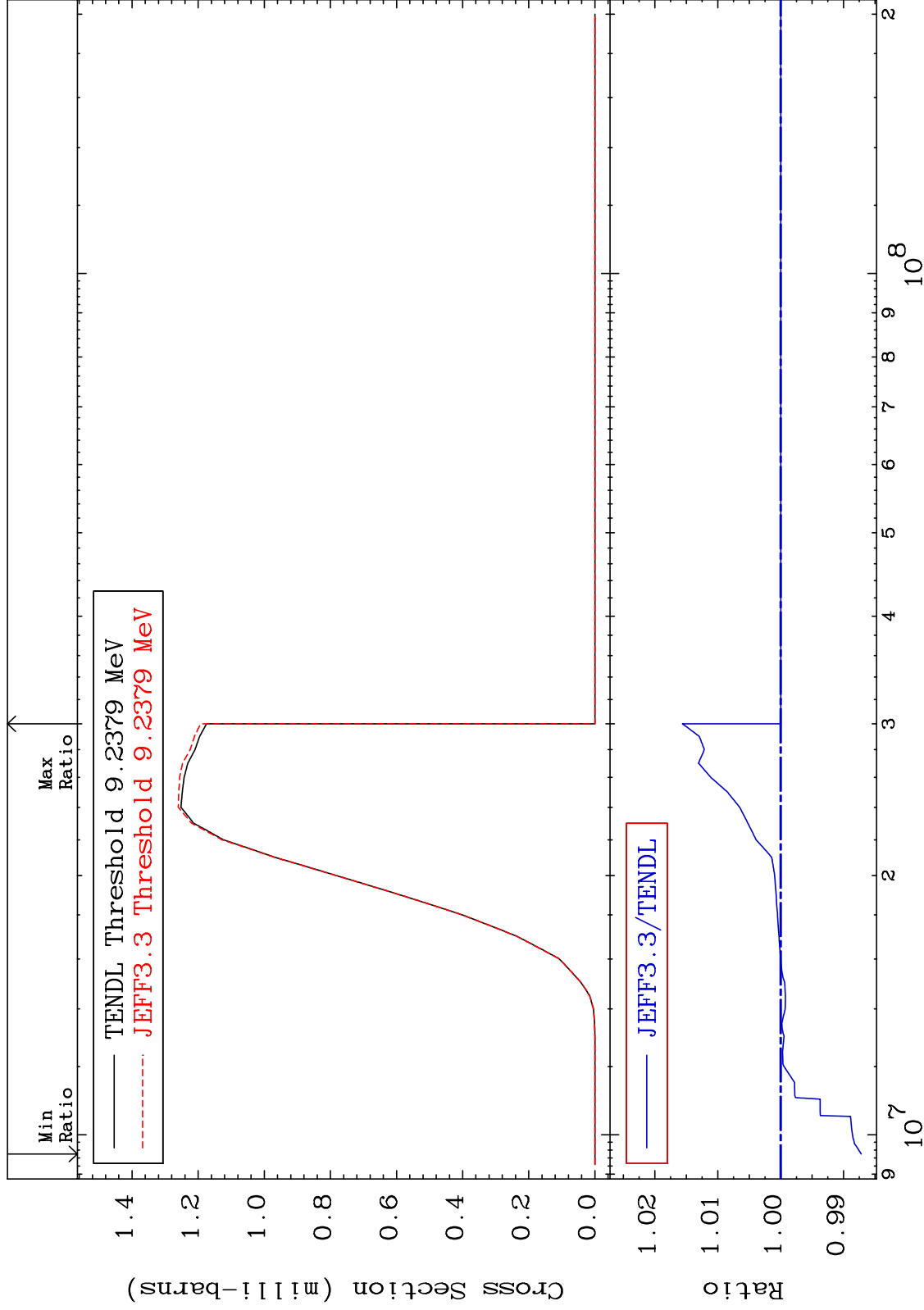
37-Rb-85

MAT 3725

(n,t):36-Kr-83m2

37-Rb-85

Radionuclide Production Cross Section -1.281 To 1.561 %



75

Incident Energy (eV)

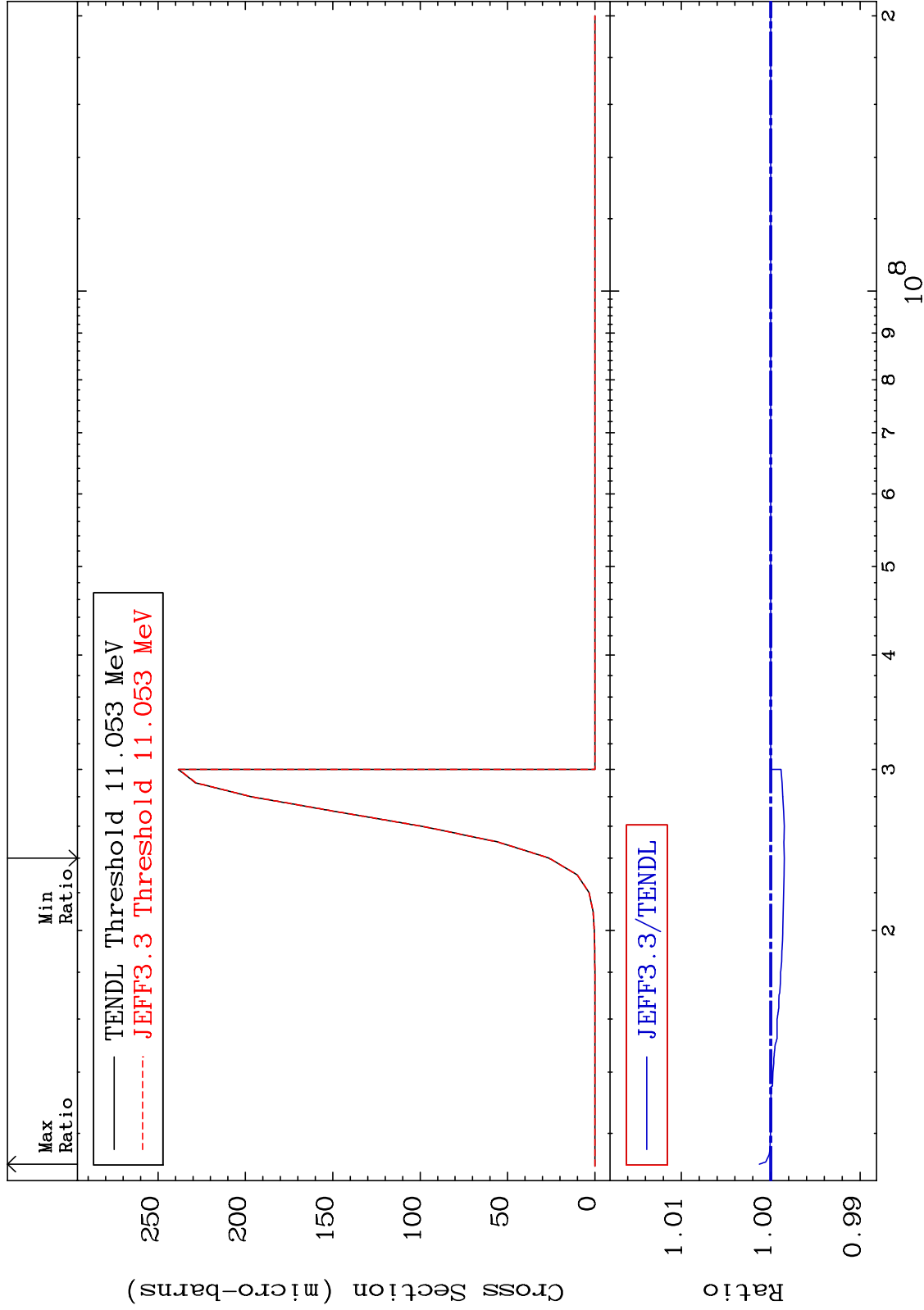
37-Rb-85

MAT 3725

(n,2p):35-Br-84g

37-Rb-85

Radionuclide Production Cross Section -0.152 To 0.126 %



76

Incident Energy (eV)

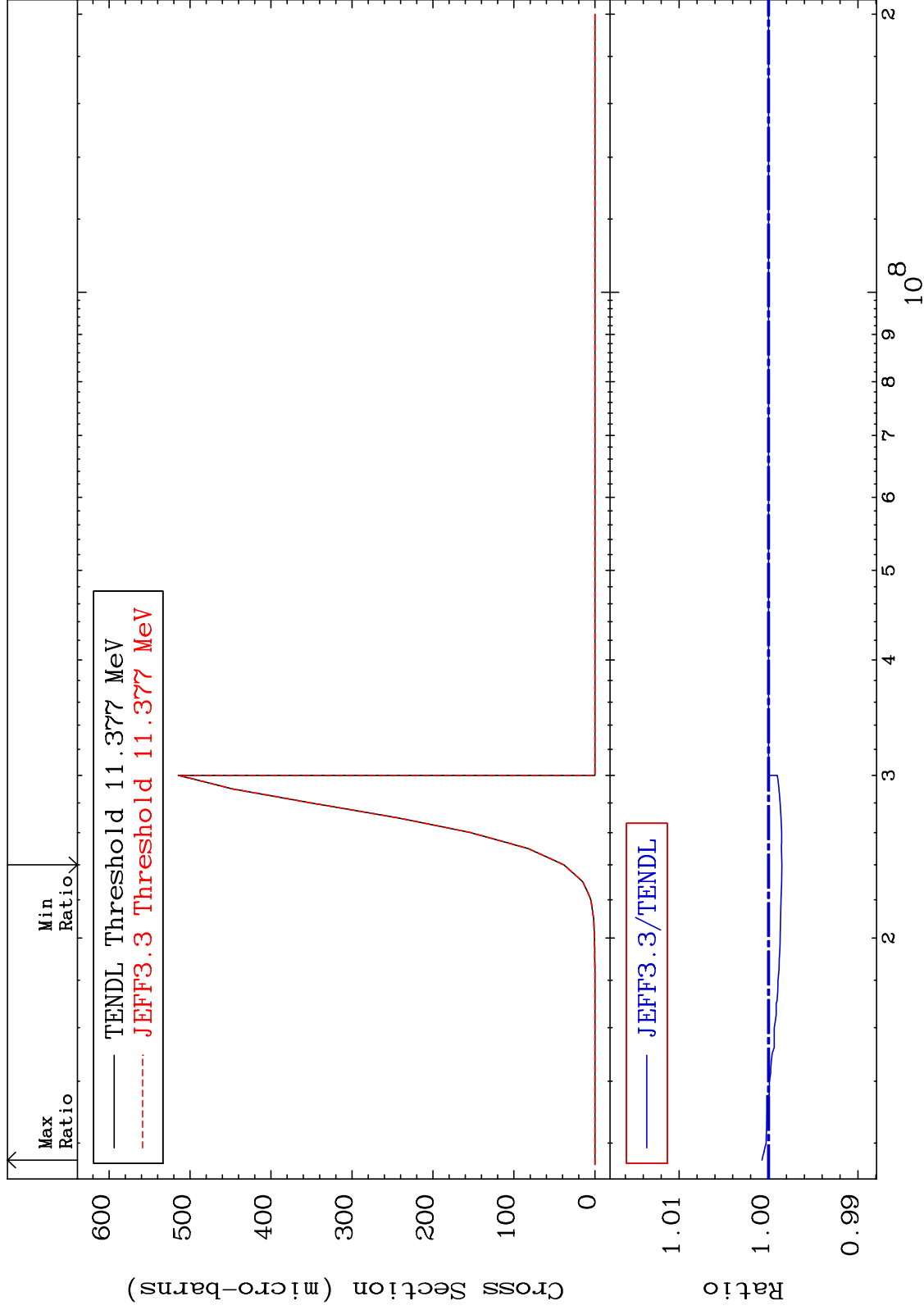
37-Rb-85

MAT 3725

(n,2p):35-Br-84m1

37-Rb-85

Radionuclide Production Cross Section -0.148 To 0.073 %

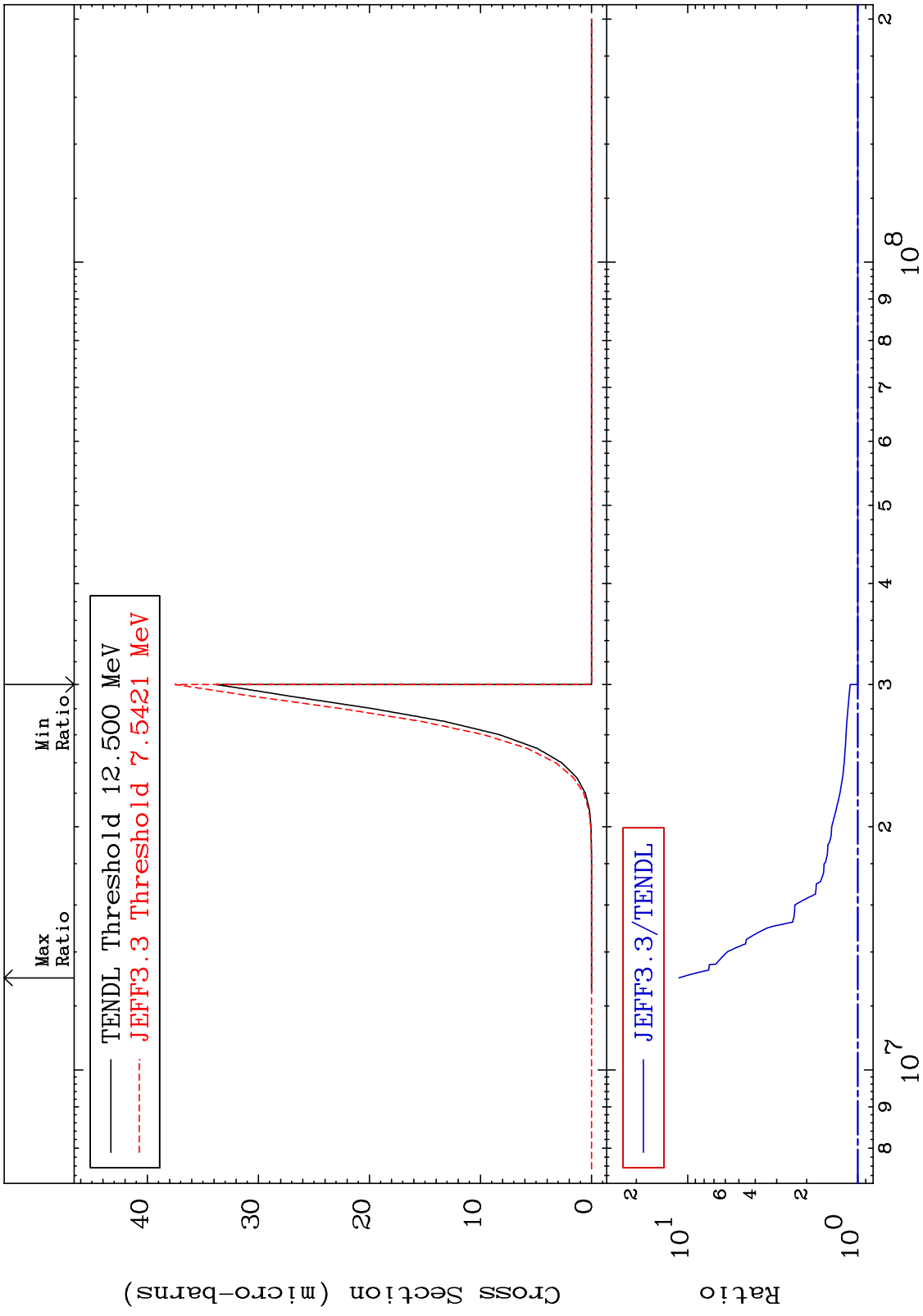


77

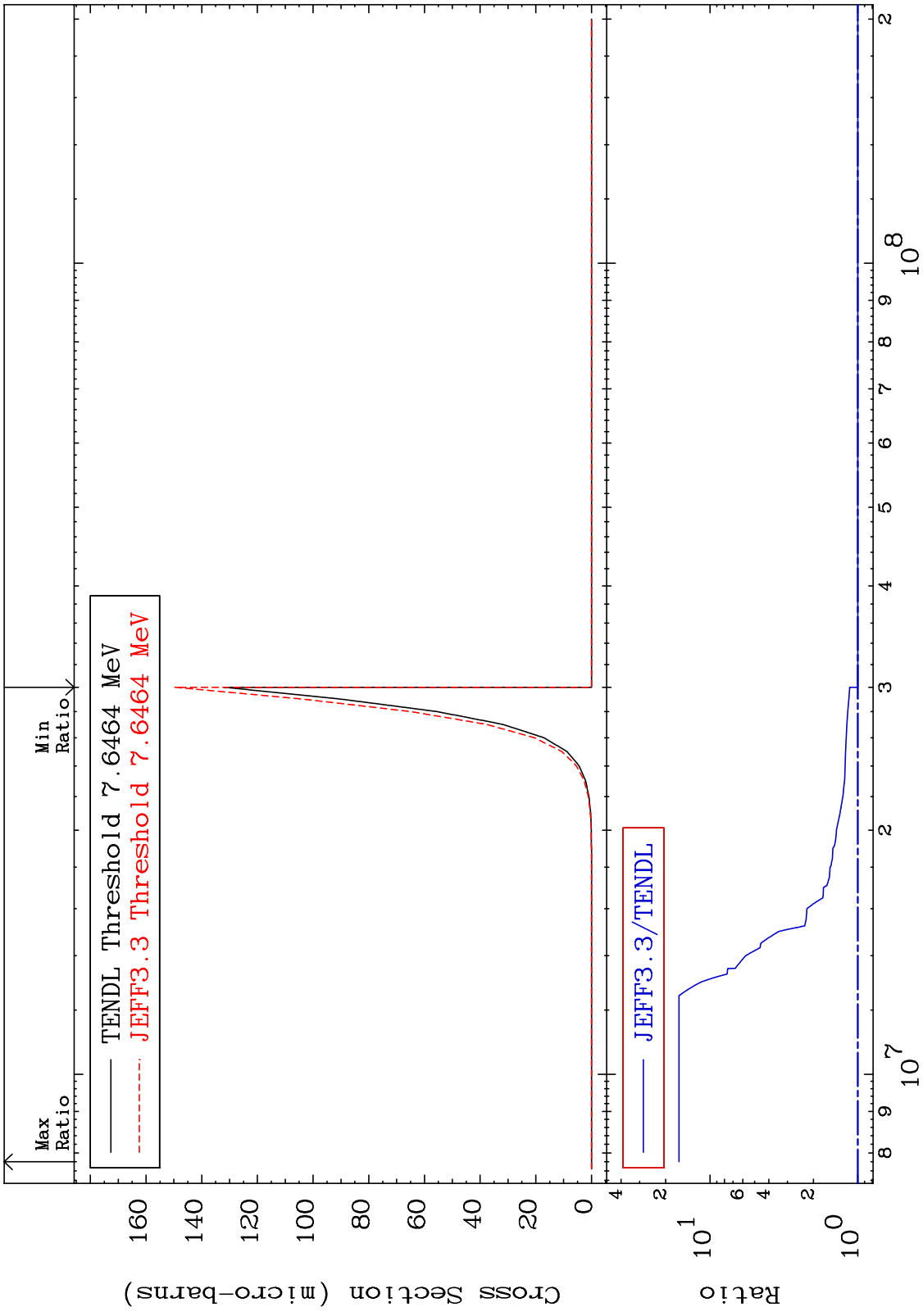
Incident Energy (eV)

37-Rb-85

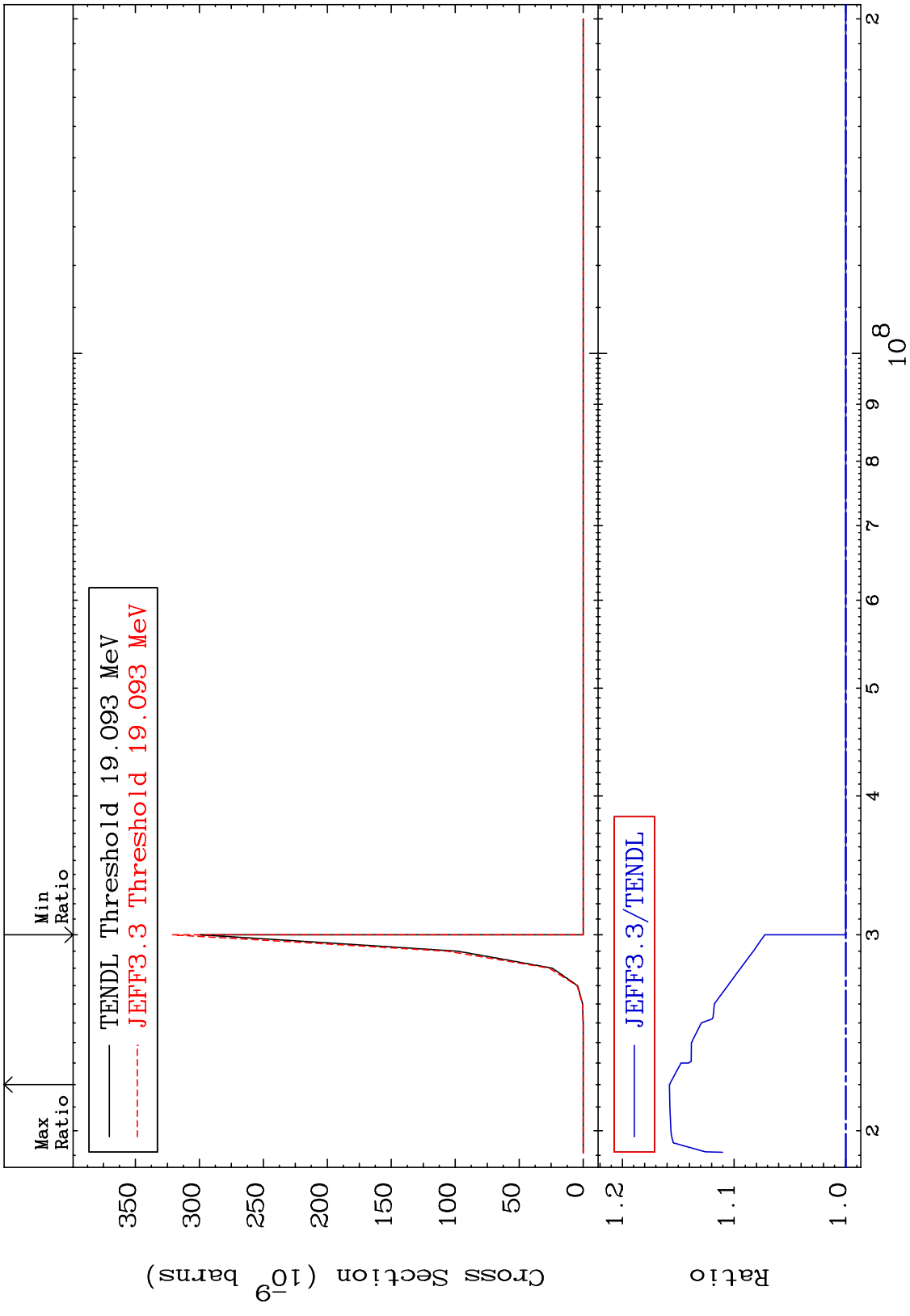
MAT 3725 (n,p) α :34-Se-81g 37-Rb-85
 Radionuclide Production Cross Section 0.000 To 1023. %



MAT 3725 (n,p) α :34-Se-81m1 37-Rb-85
 Radionuclide Production Cross Section 0.000 To 1522. %



MAT 3725 (n,p) t:35-Br-82g 37-Rb-85
 Radionuclide Production Cross Section 0.000 To 15.78 %

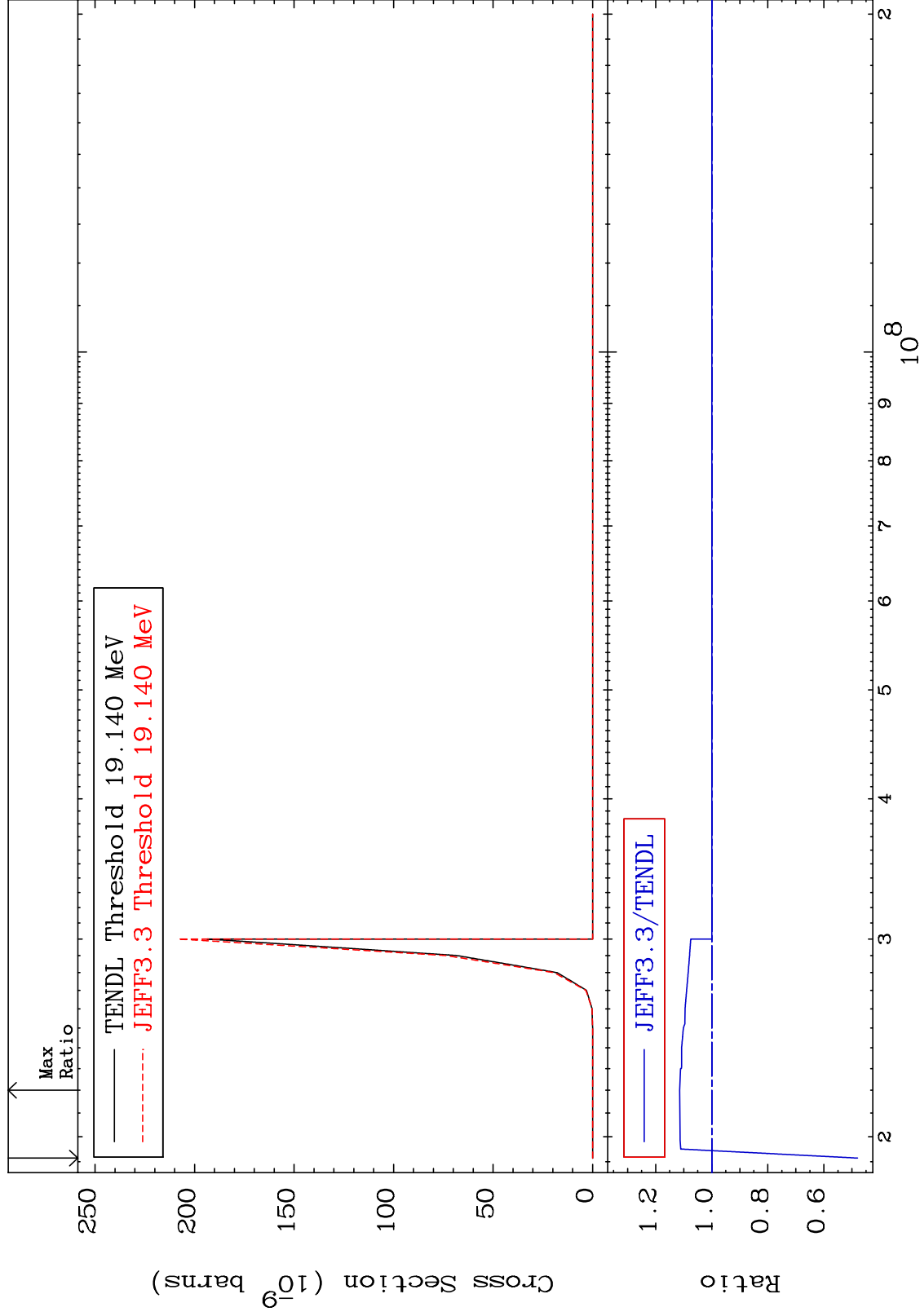


MAT 3725

(n,p) t:35-Br-82m1

37-Rb-85

Radionuclide Production Cross Section -52.01 To 11.43 %



81

Incident Energy (eV)

37-Rb-85