

Program Complot
(Version 2018-1)

by

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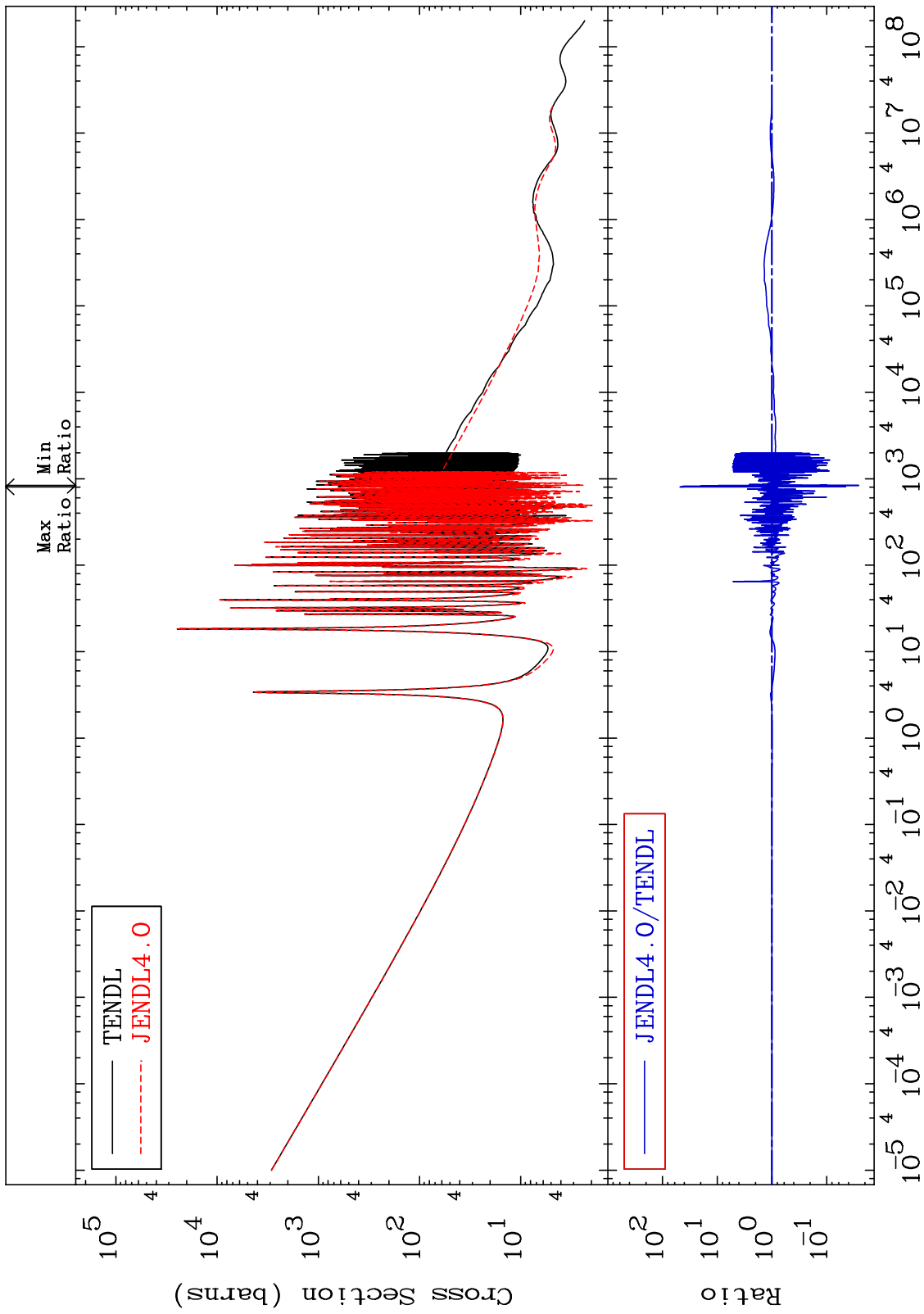
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6234

Total
Cross Section

62-Sm-147
-97.42 To 4637. %



1

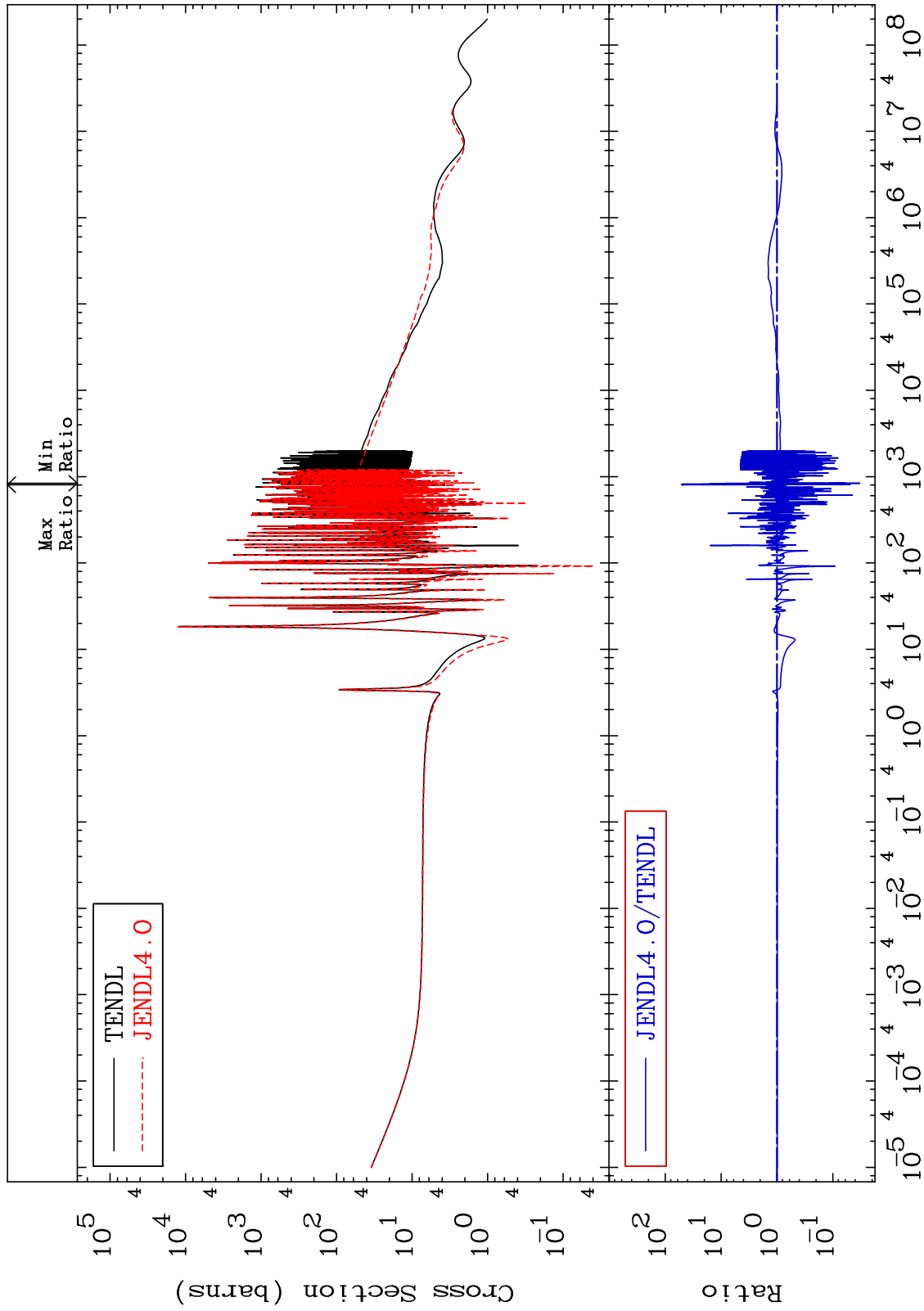
Incident Energy (eV)

62-Sm-147

MAT 6234

Elastic
Cross Section

62-Sm-147
-96.68 To 5066. %

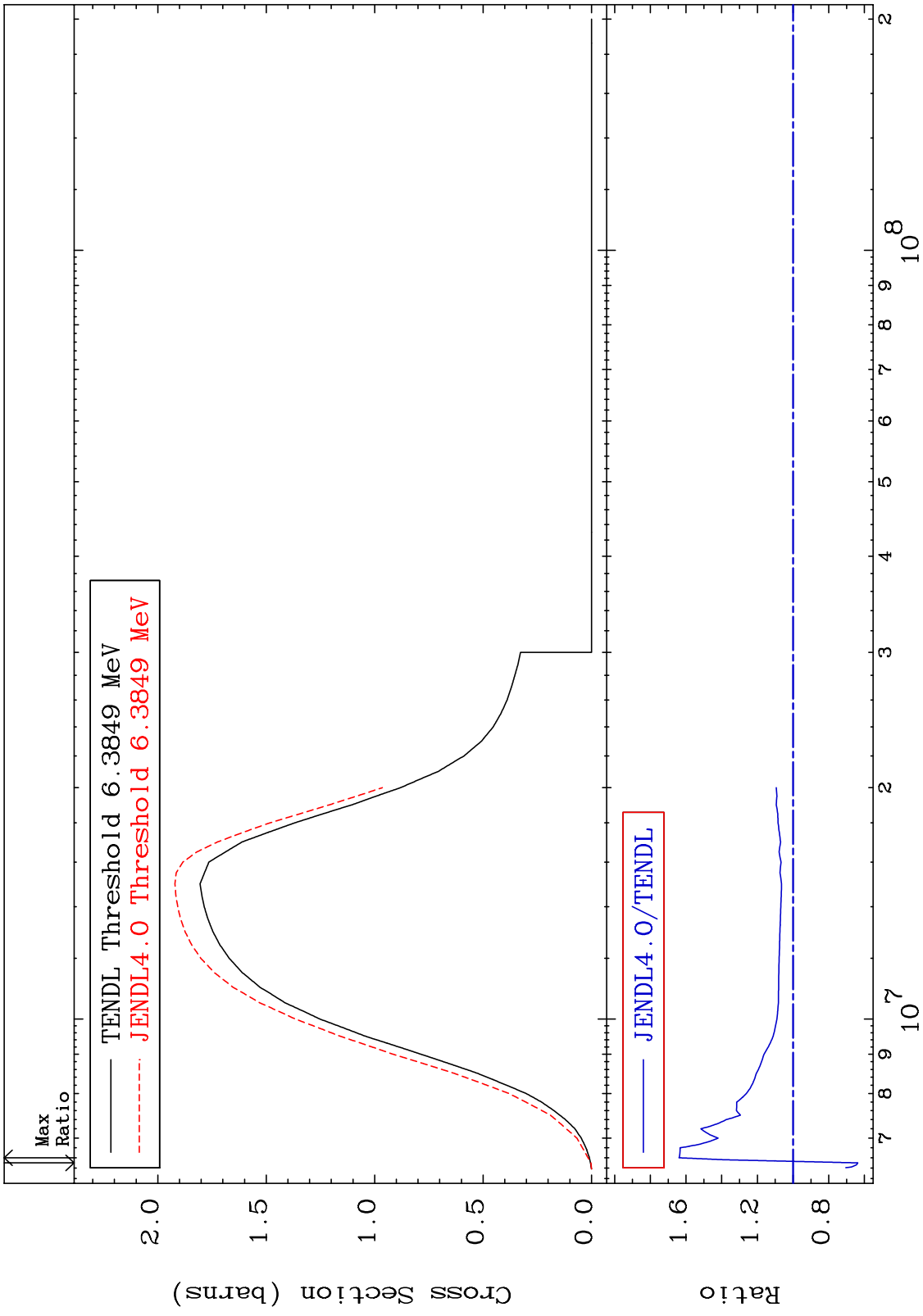


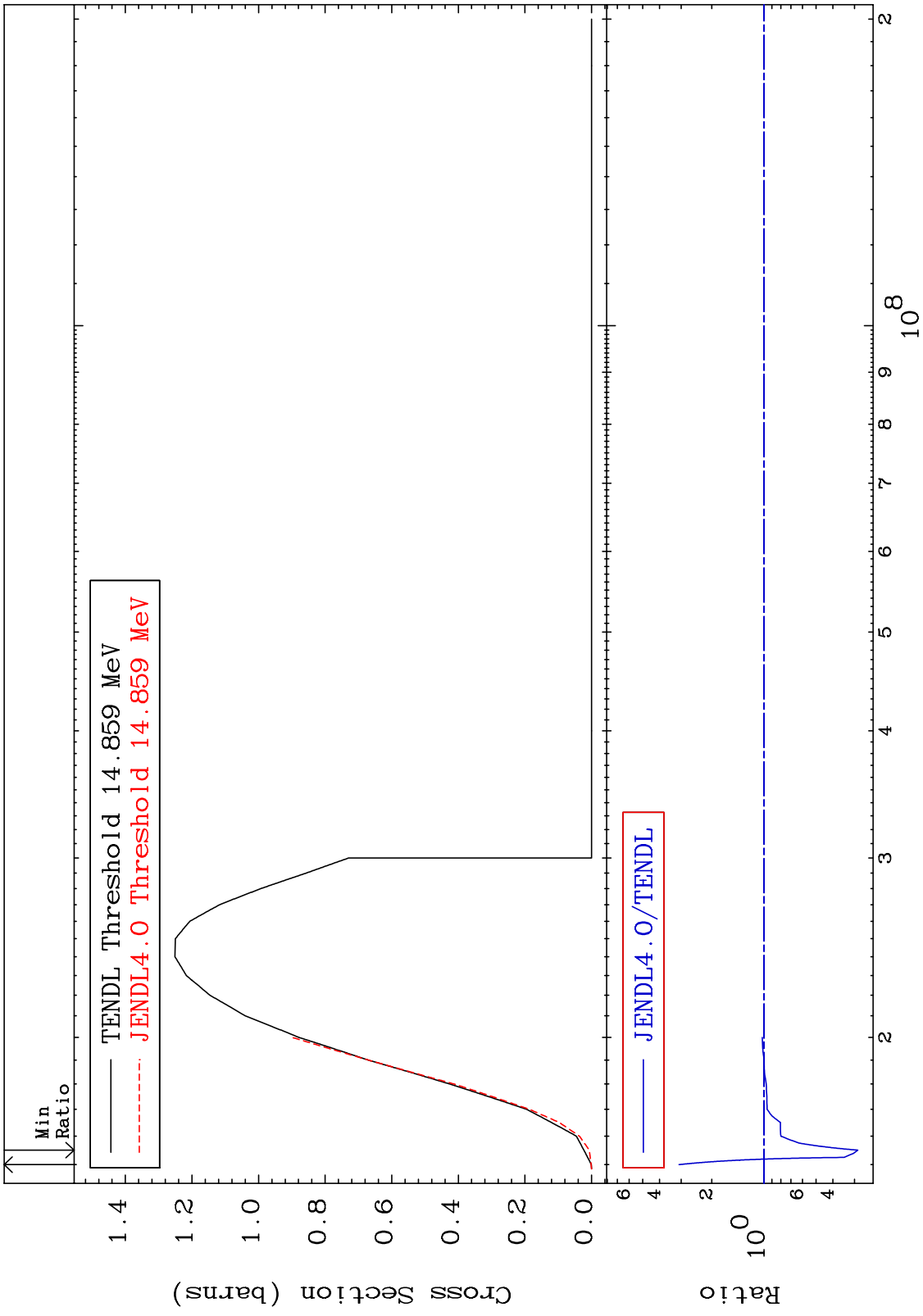
2

Incident Energy (eV)

62-Sm-147

MAT 6234 (n,2n) Cross Section 62-Sm-147 -36.30 To 63.91 %





MAT 6234

$(n, n') \alpha$

62-Sm-147

-100.0 To 9999. %

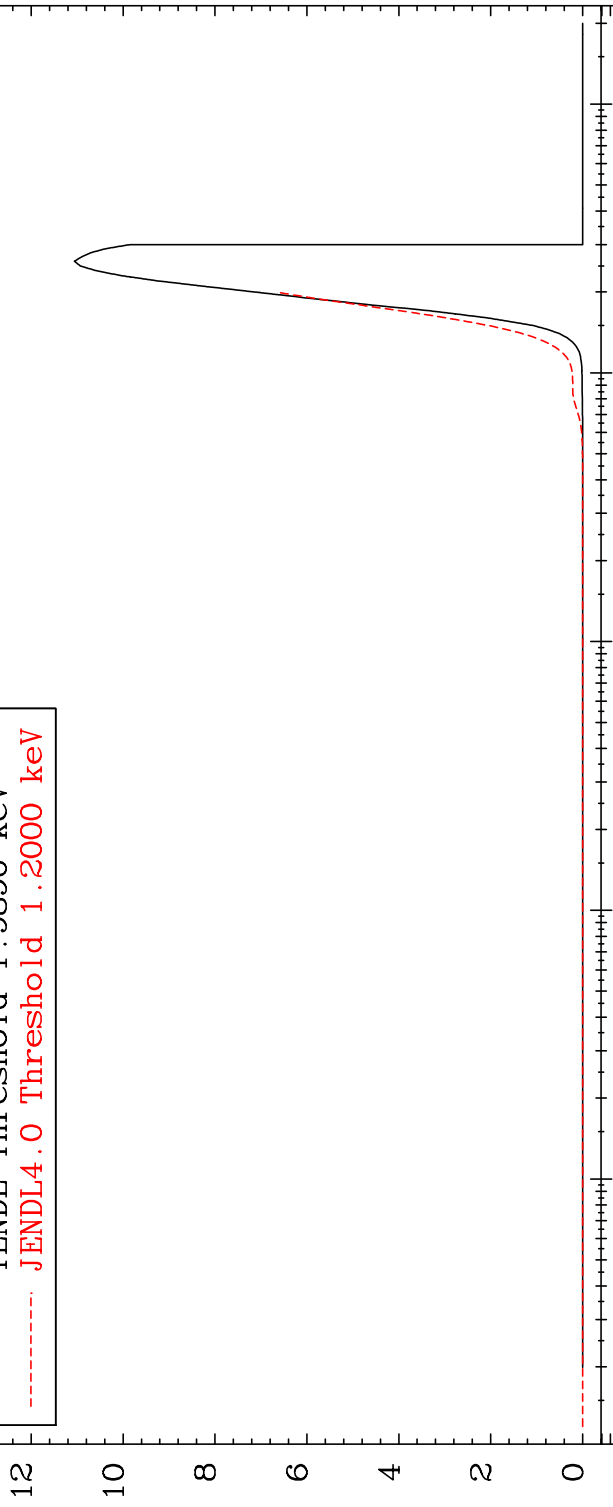
Cross Section

Min Ratio

Max Ratio

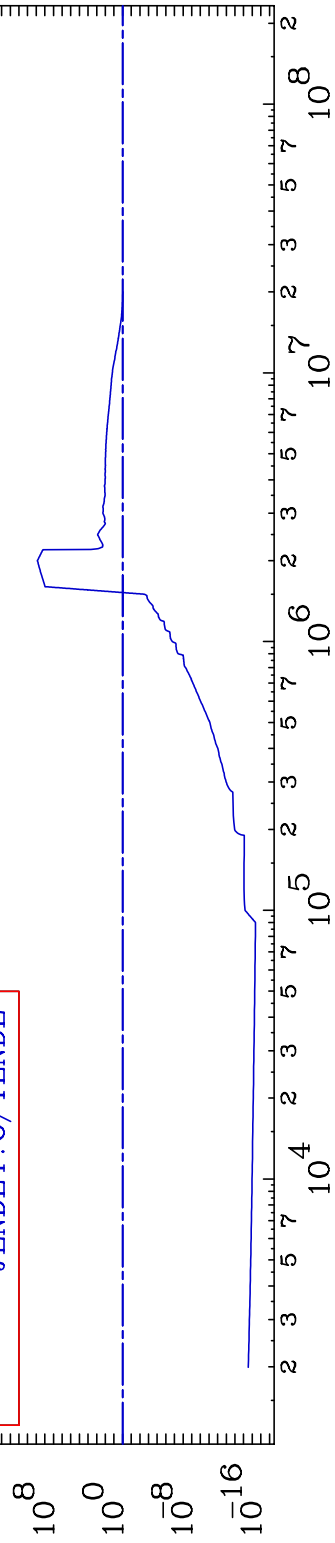
— TENDL Threshold 1.9890 keV
- - - JENDL4.0 Threshold 1.2000 keV

Cross Section (milli-barns)



— JENDL4.0/TENDL

Ratio

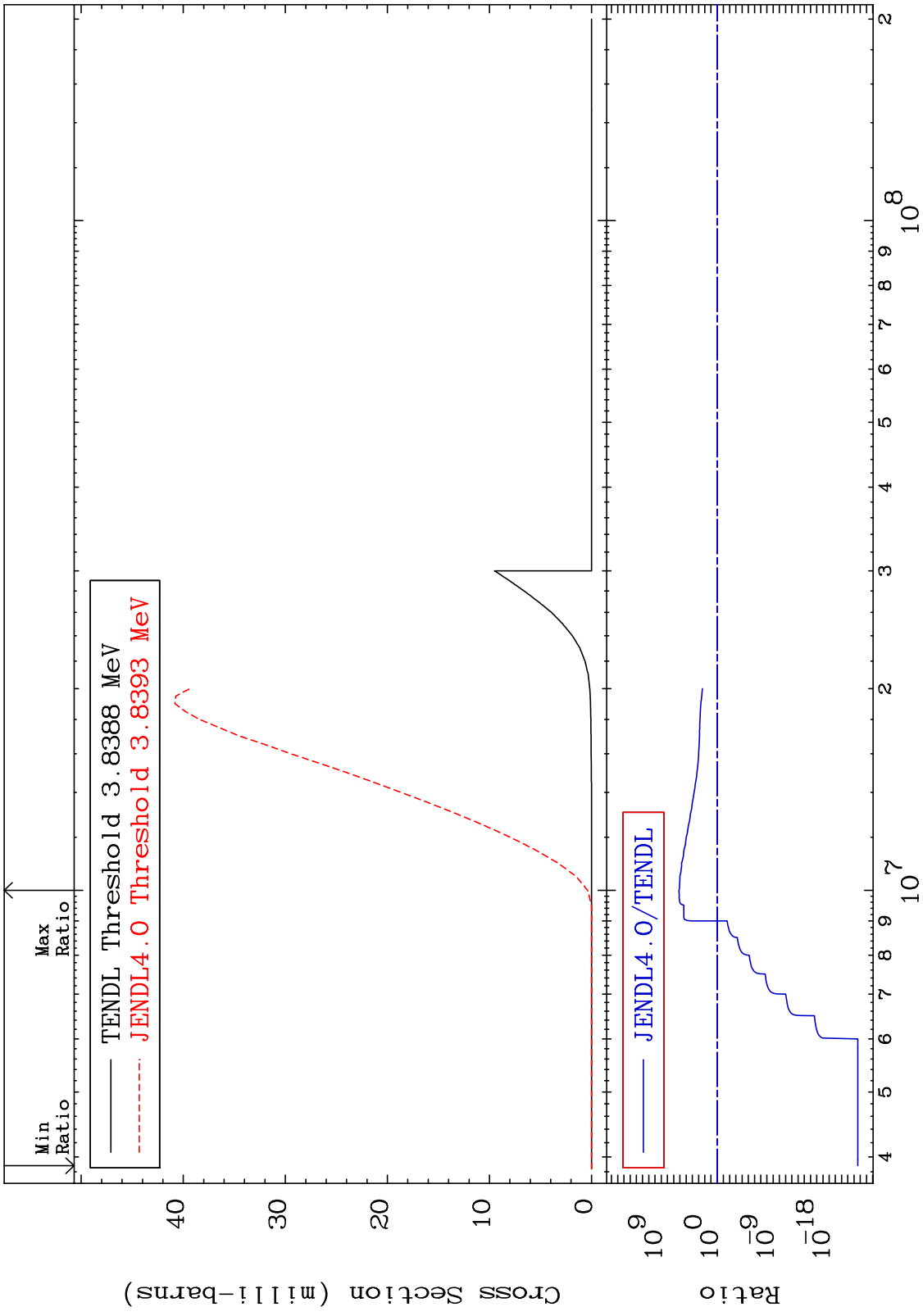


6

Incident Energy (eV)

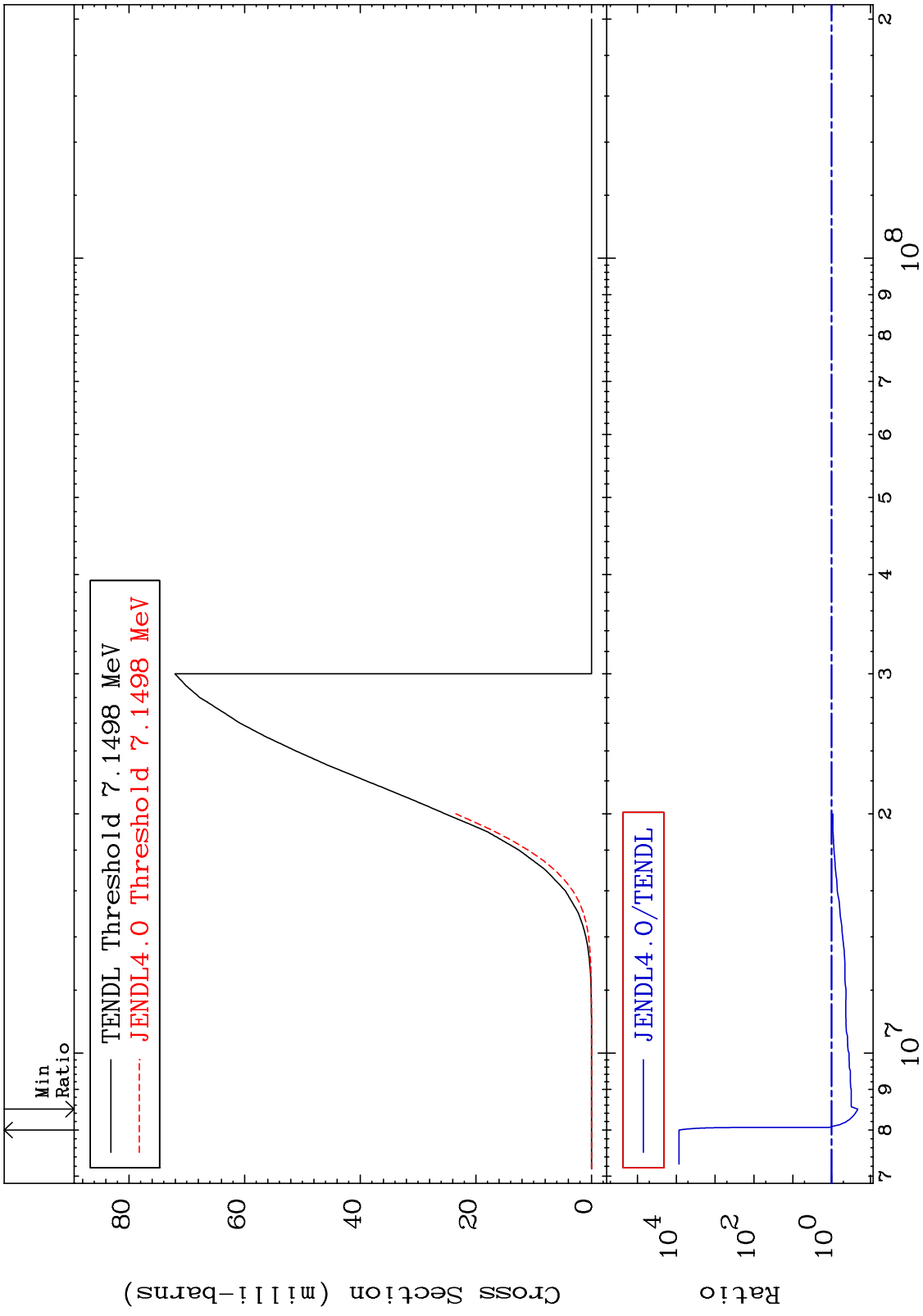
62-Sm-147

MAT 6234 $(n, 2n) \alpha$ 62-Sm-147
 Cross Section -100.0 To 9999. %

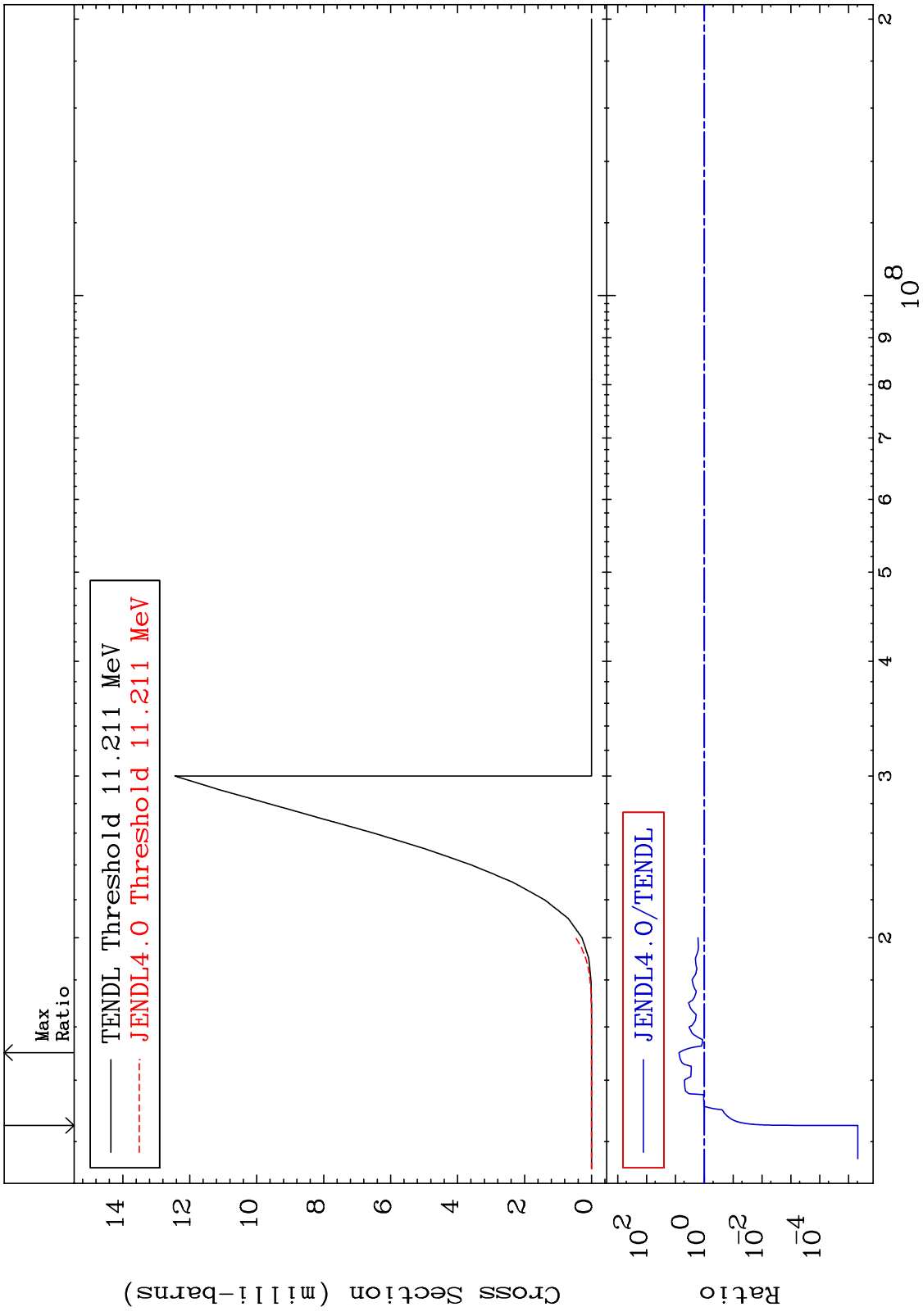


7 62-Sm-147

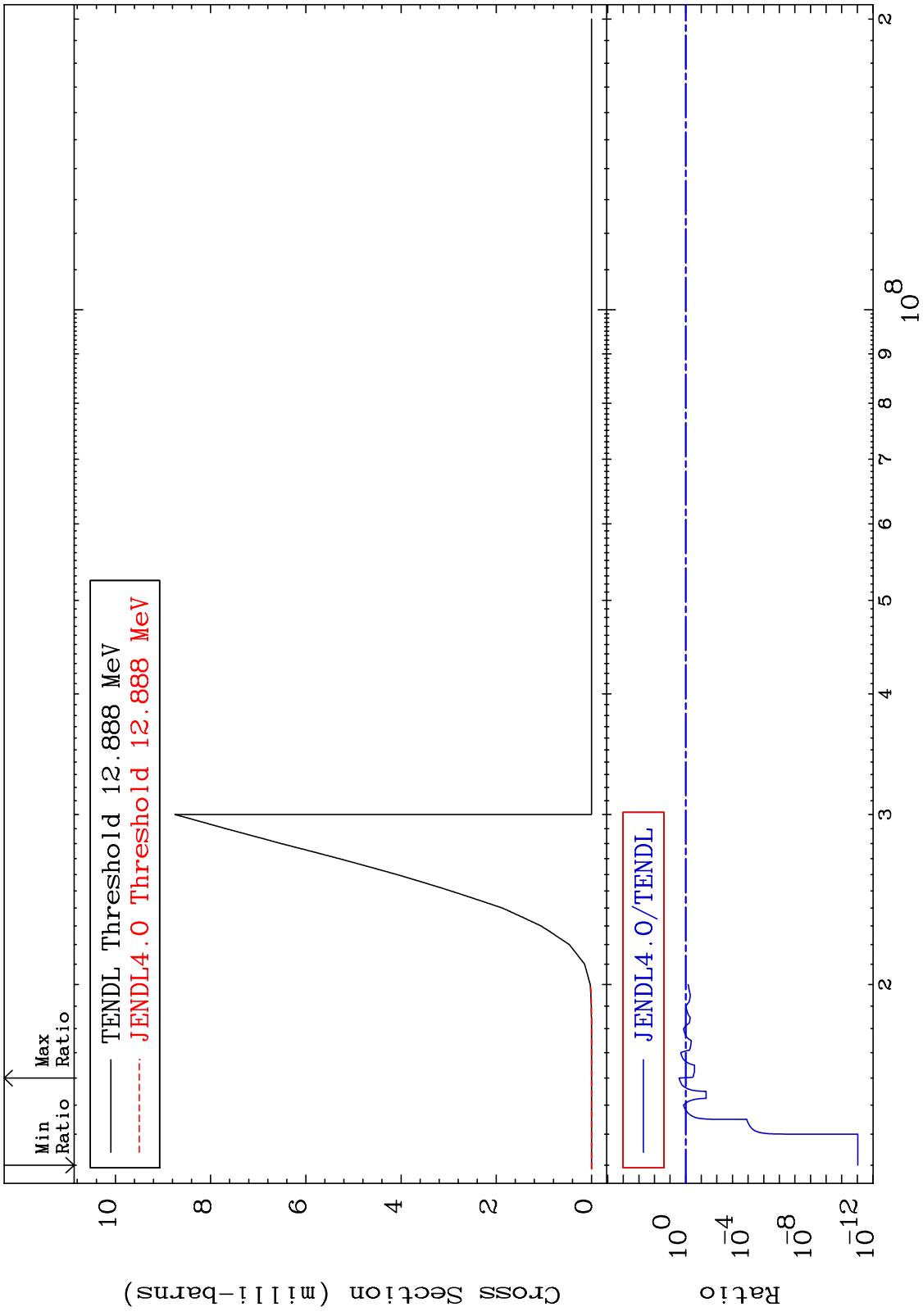
MAT 6234 (n,n') p 62-Sm-147
 Cross Section -78.86 To 9999. %



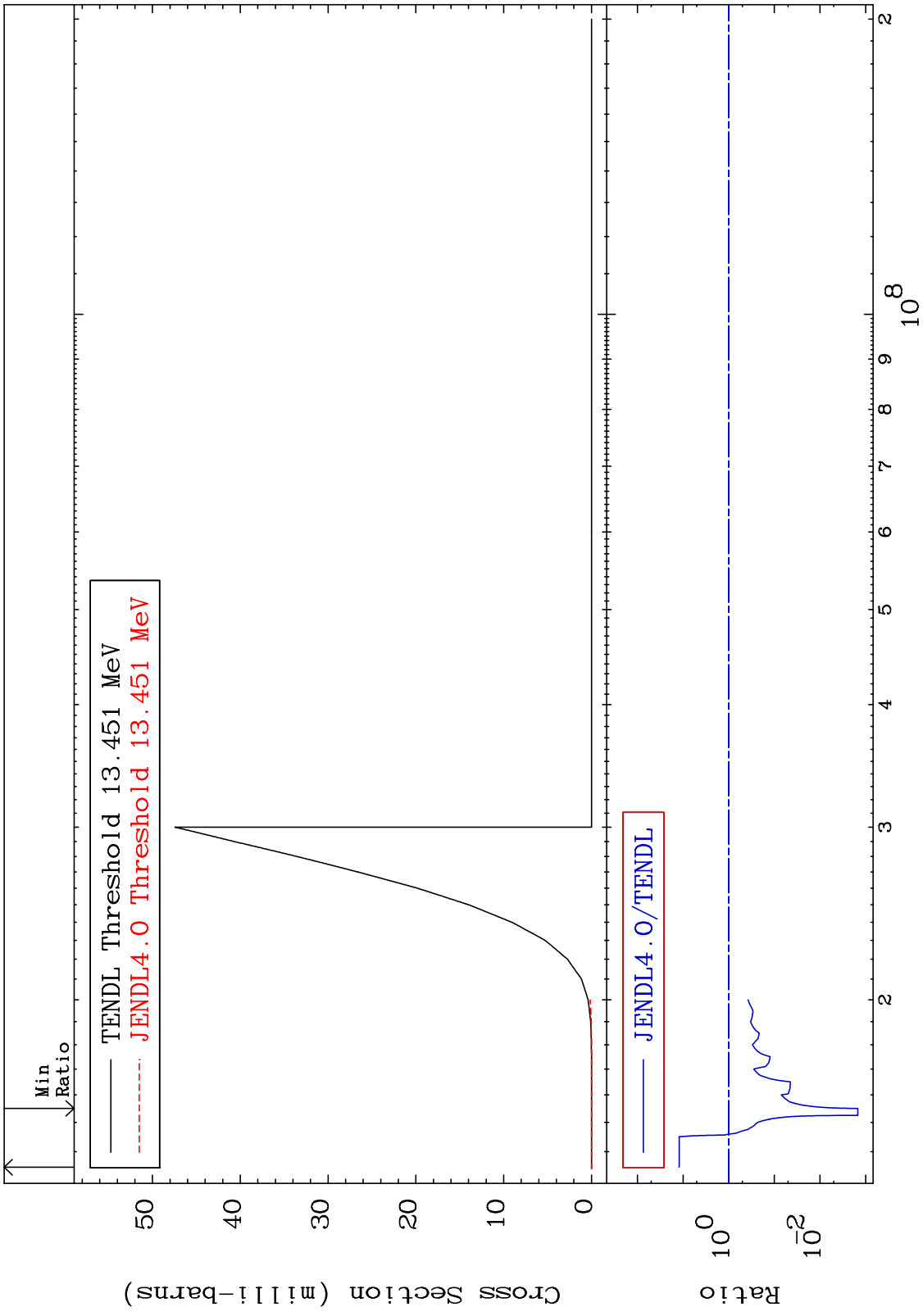
8 62-Sm-147



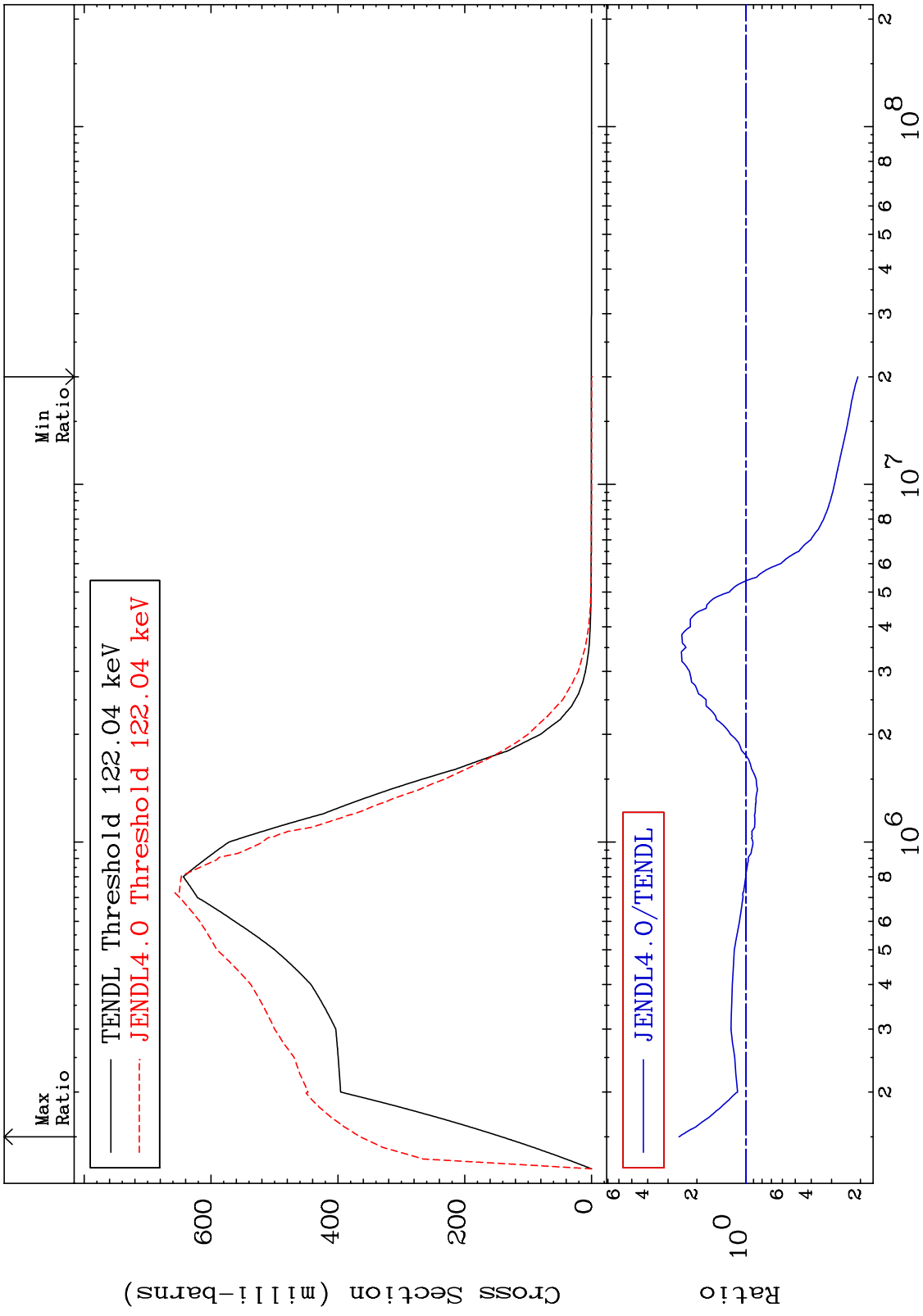
MAT 6234 (n,n') t 62-Sm-147
 Cross Section -100.0 To 166.2 %



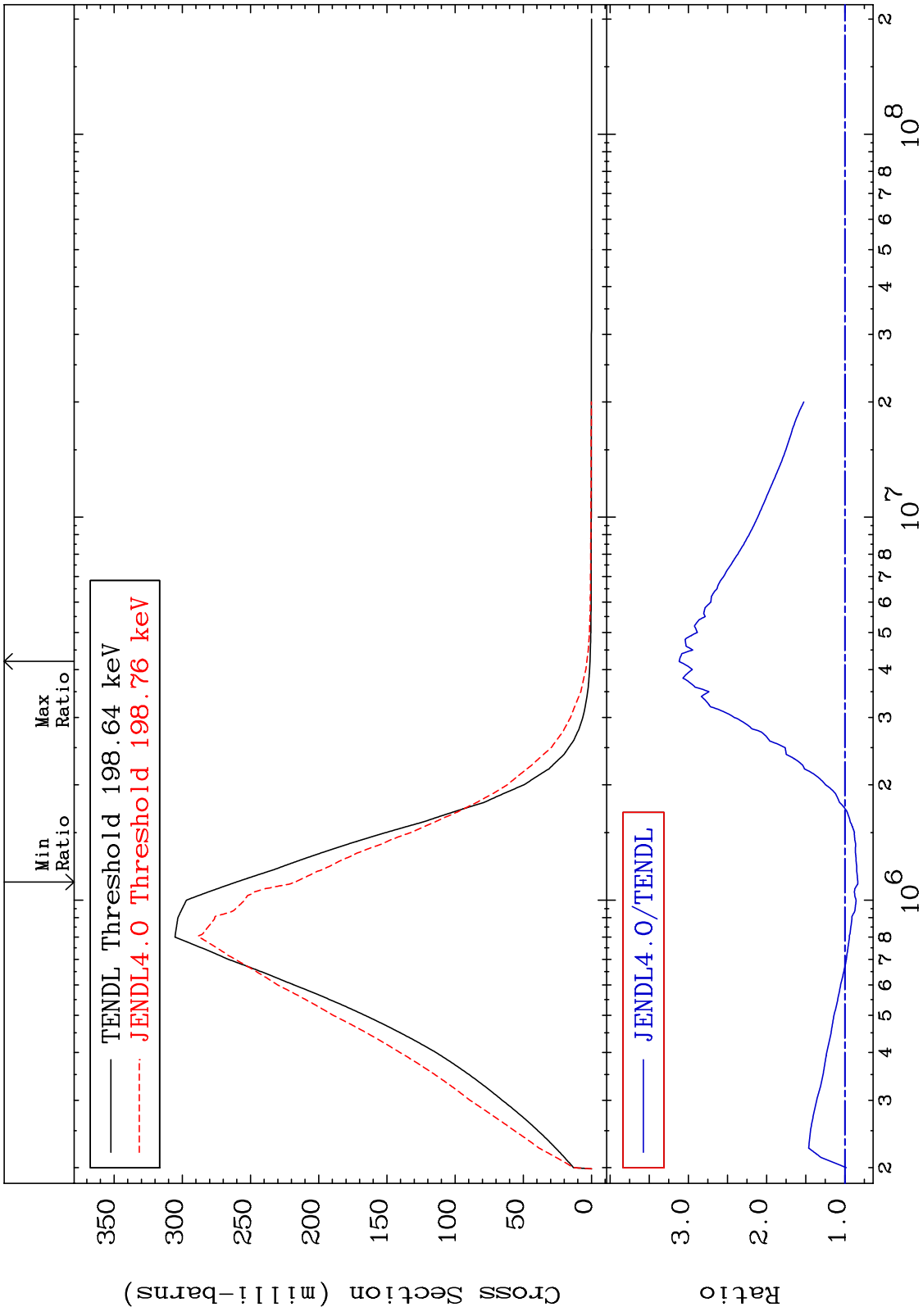
MAT 6234 (n,2n) p 62-Sm-147
 Cross Section -99.85 To 1122. %



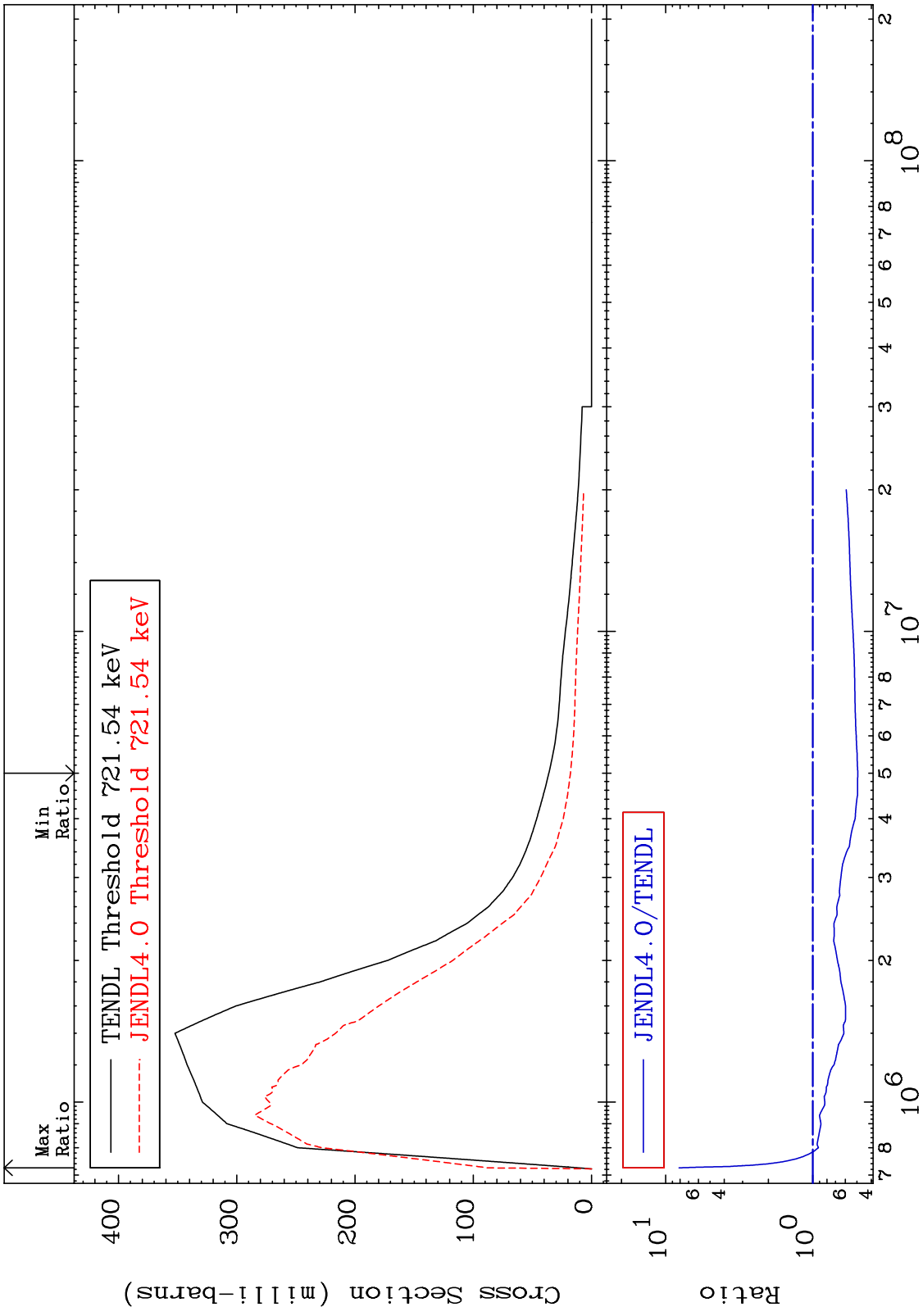
MAT 6234 MT= 51 (n,n') Level Cross Section 62-Sm-147
 -79.27 To 157.2 %



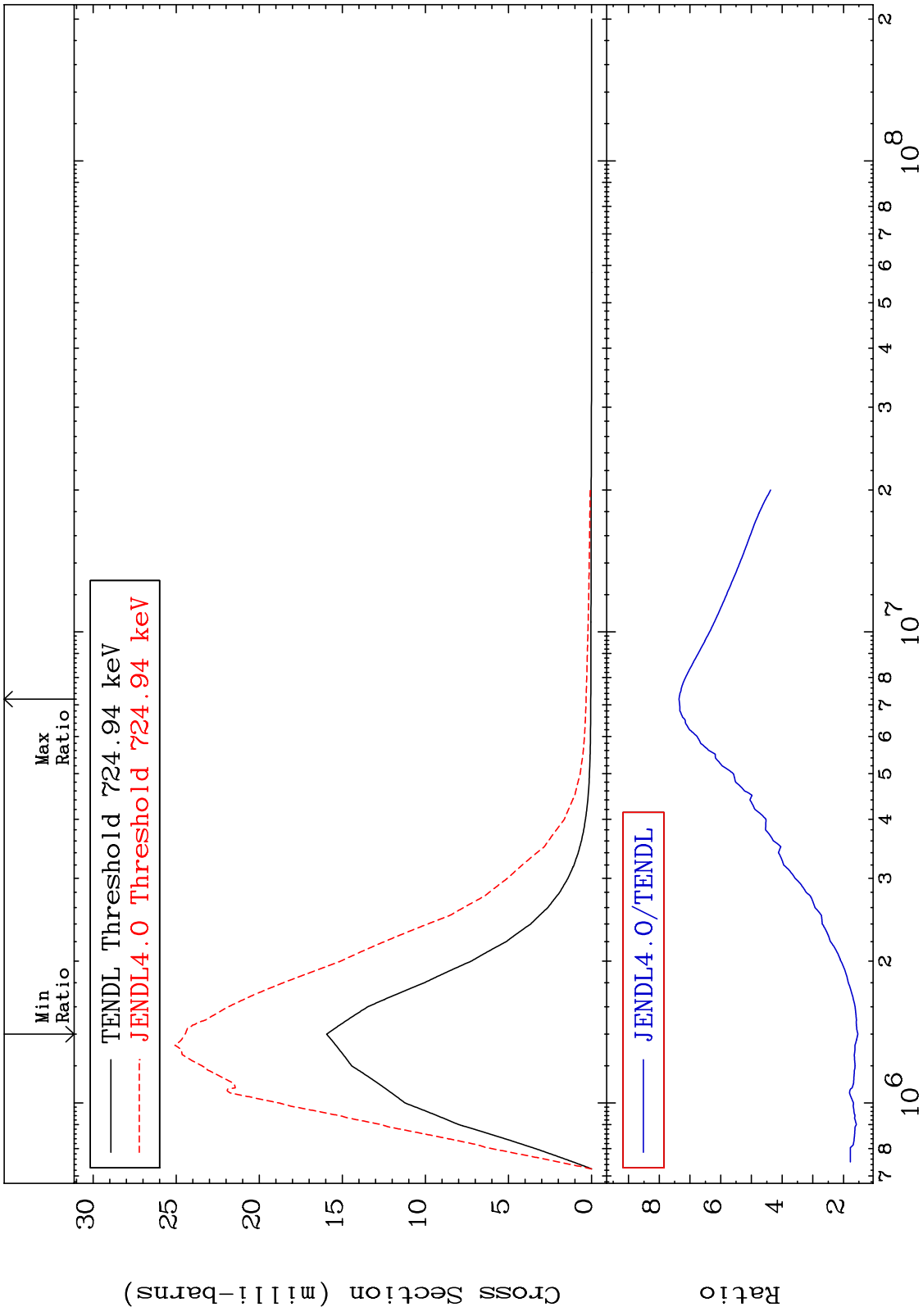
MAT 6234 MT= 52 (n,n') Level Cross Section 62-Sm-147 -16.55 To 211.9 %



MAT 6234 MT= 53 (n,n') Level Cross Section 62-Sm-147
 -50.64 To 711.6 %

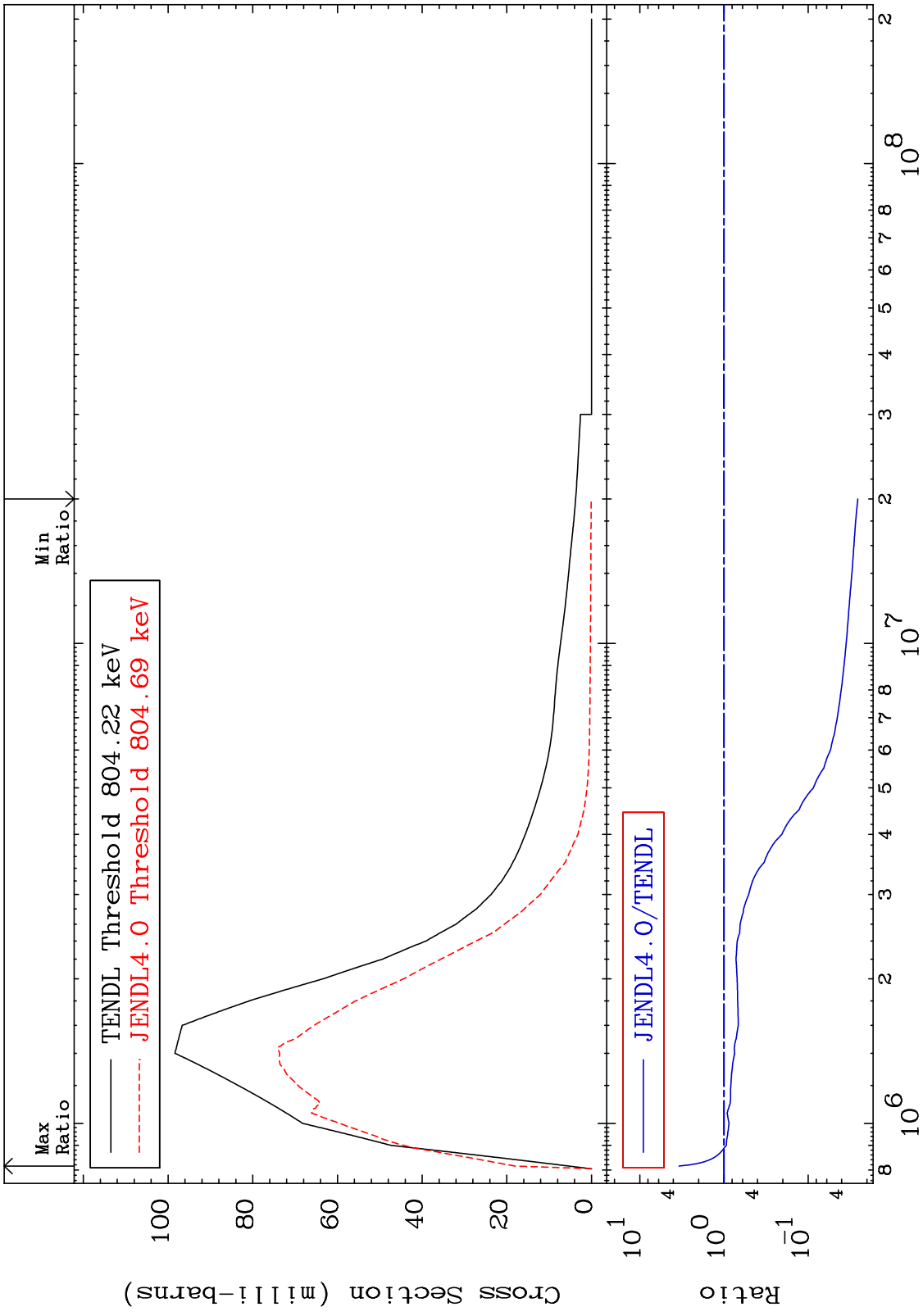


MAT 6234 MT= 54 (n,n') Level Cross Section 62-Sm-147 53.43 To 635.6 %



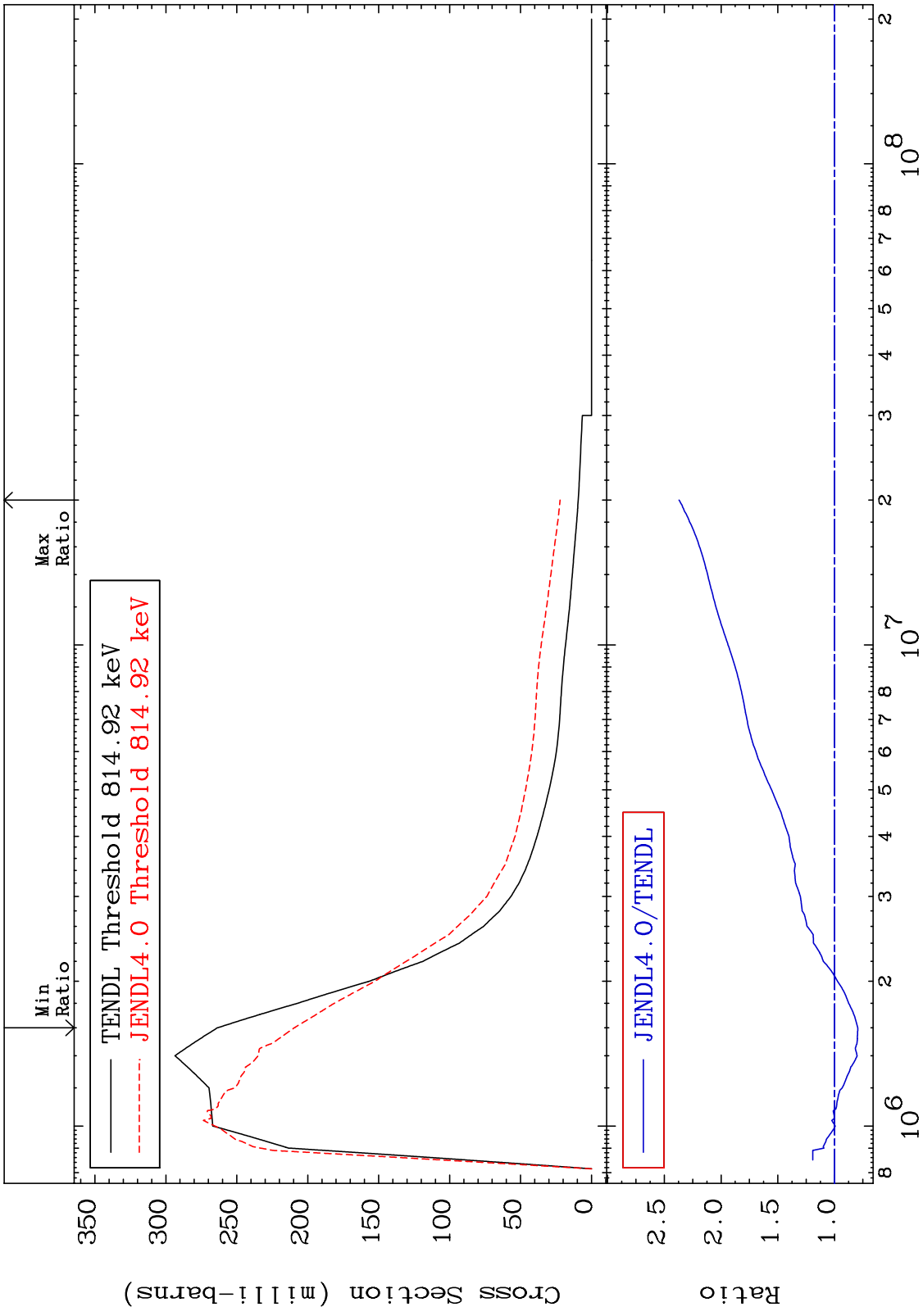
15 Incident Energy (eV) 62-Sm-147

MAT 6234 MT= 55 (n,n') Level Cross Section 62-Sm-147 -97.43 To 242.4 %

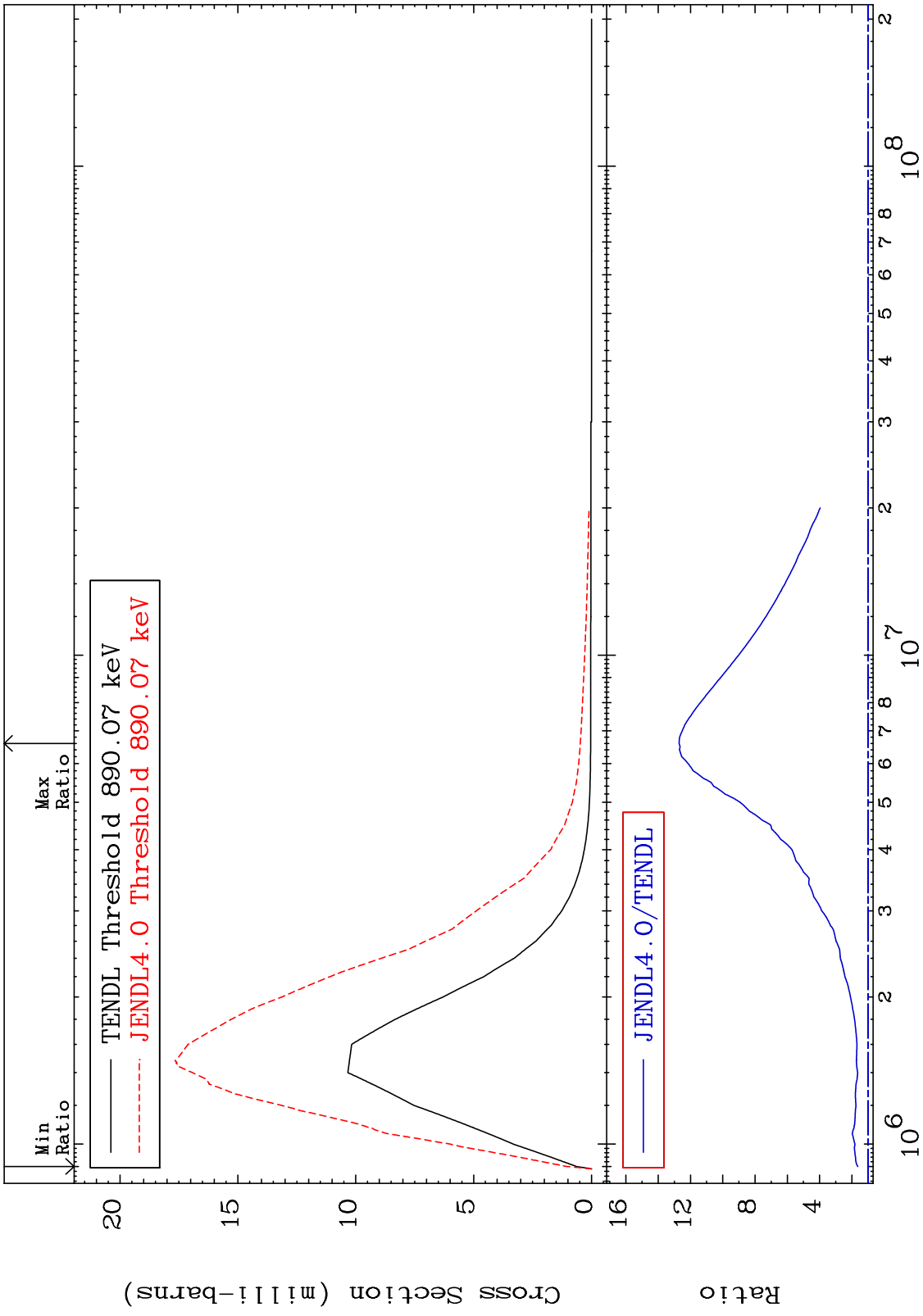


16 62-Sm-147

MAT 6234 MT= 56 (n,n') Level Cross Section 62-Sm-147
 -20.54 To 137.0 %

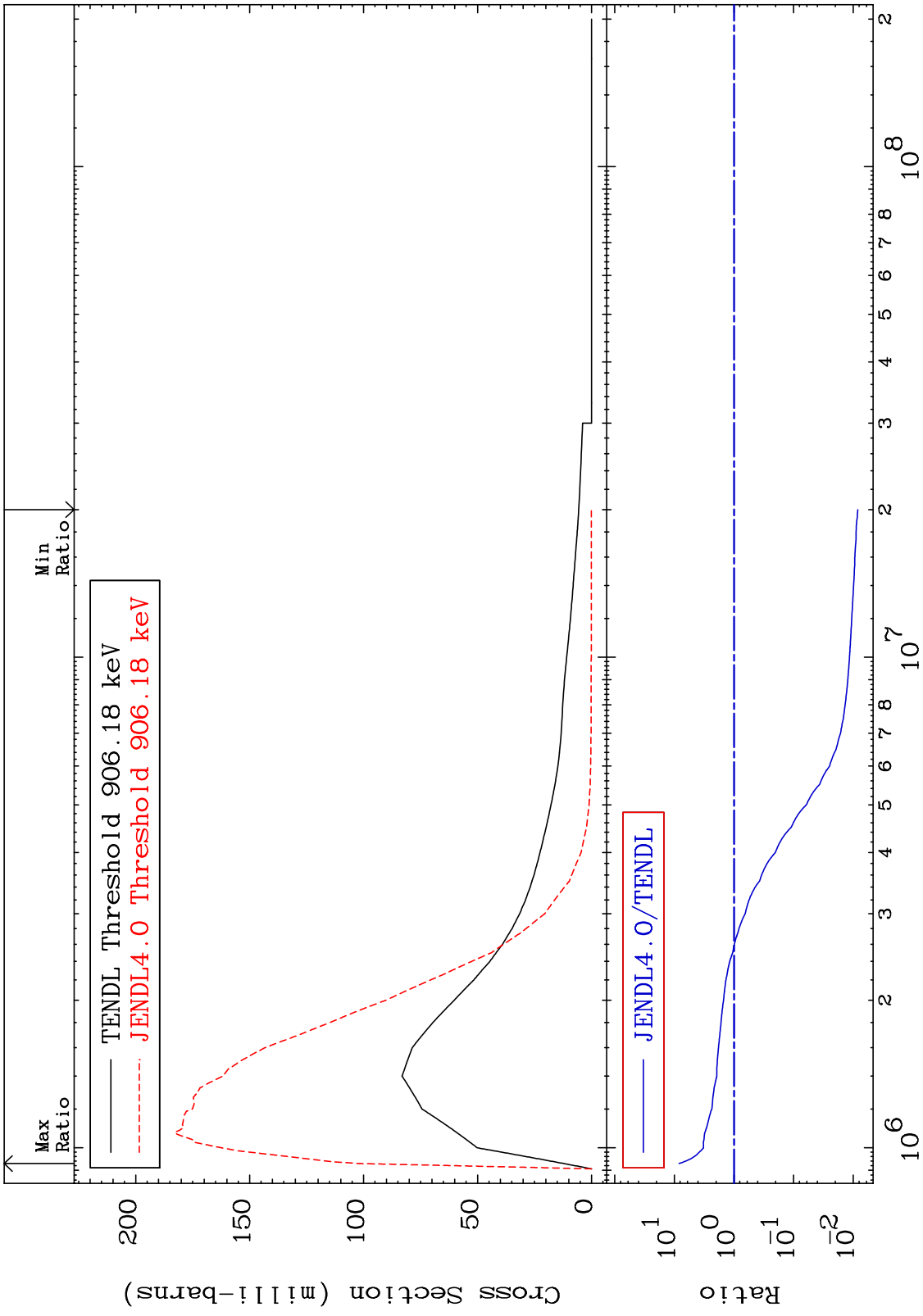


MAT 6234 MT= 57 (n,n') Level Cross Section 62.93 To 1171. % 62-Sm-147



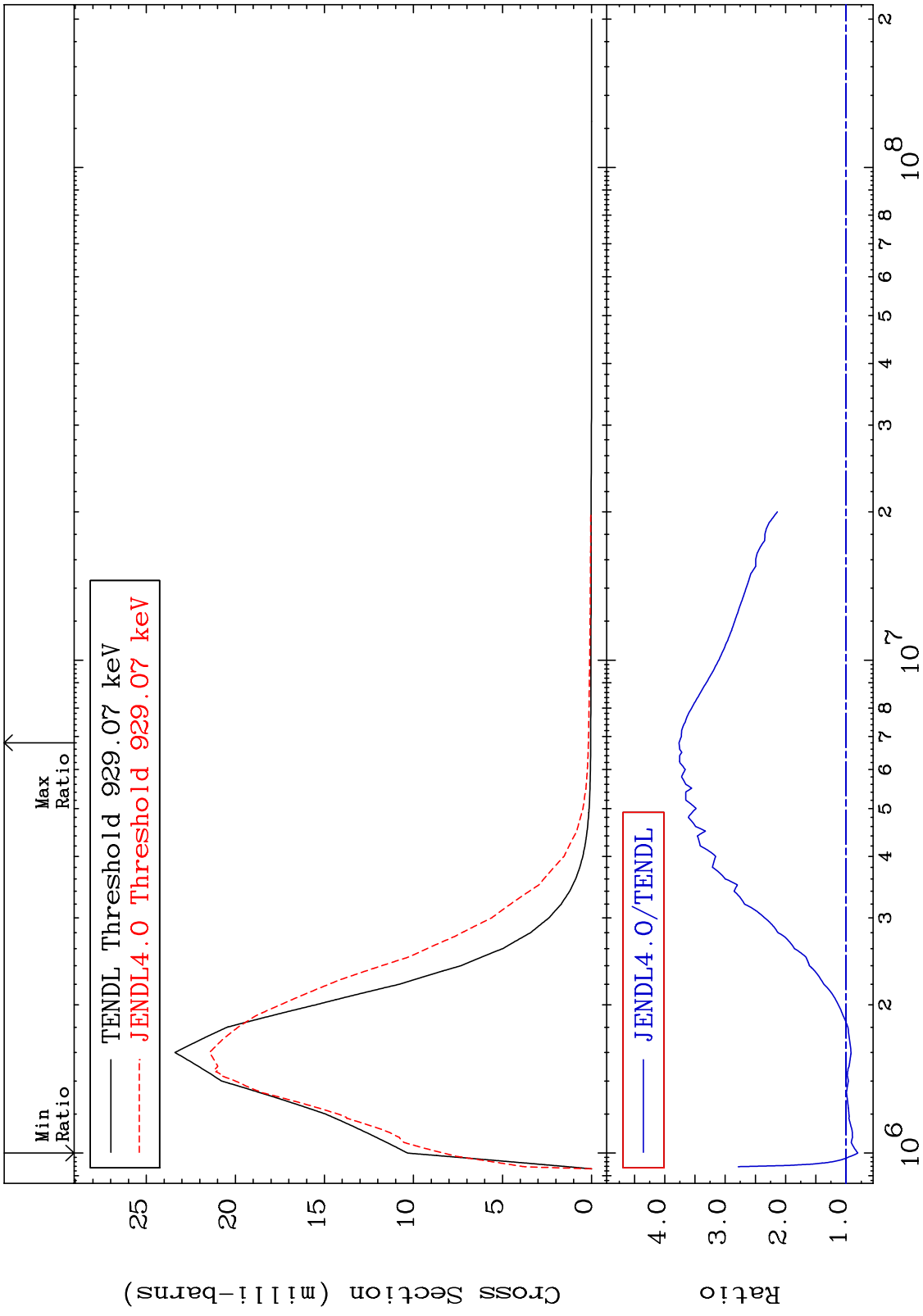
18 Incident Energy (eV) 62-Sm-147

MAT 6234 MT= 58 (n,n') Level Cross Section 62-Sm-147 -99.16 To 734.8 %



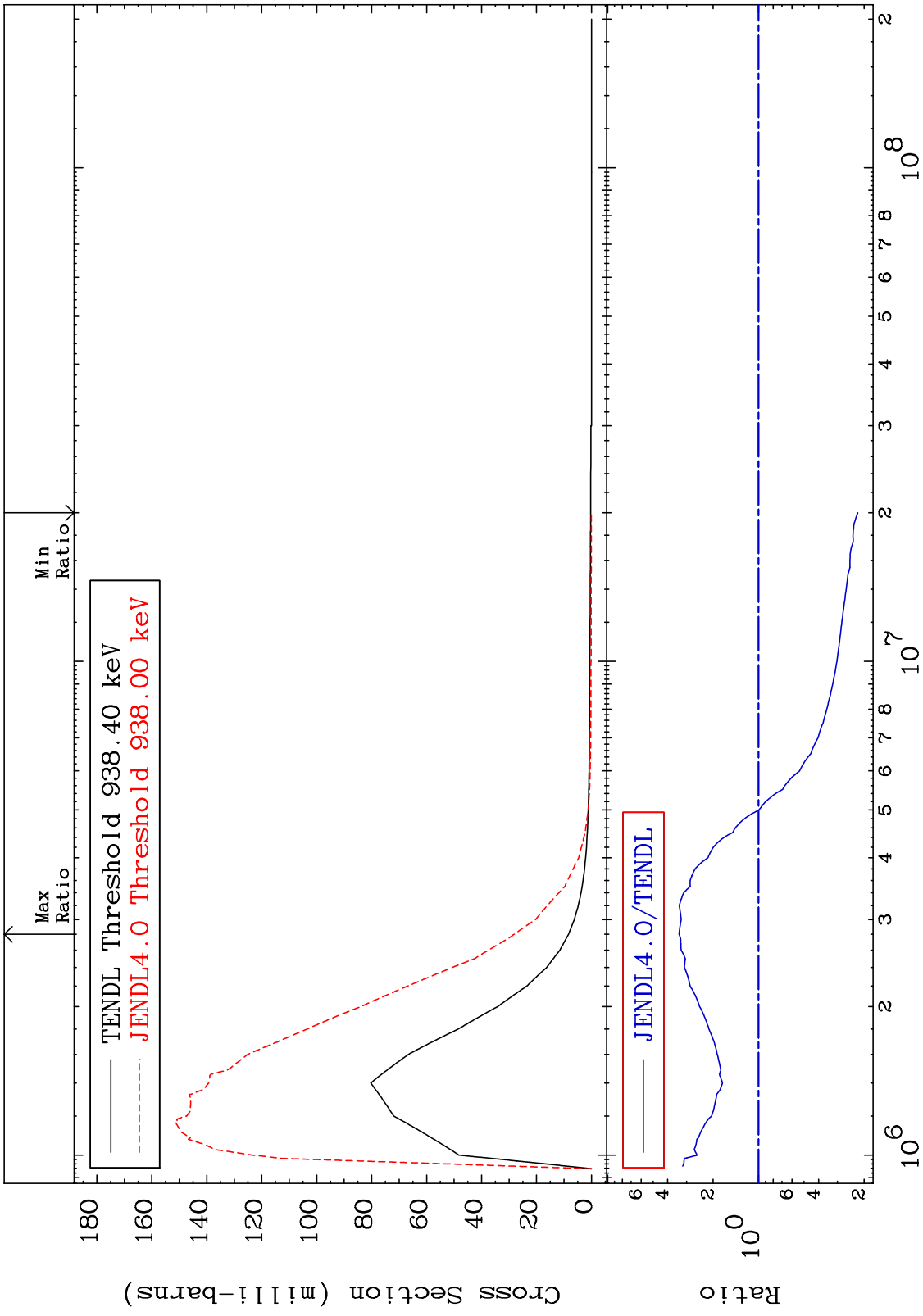
19 62-Sm-147

MAT 6234 MT= 59 (n,n') Level Cross Section 62-Sm-147
-19.46 To 276.3 %

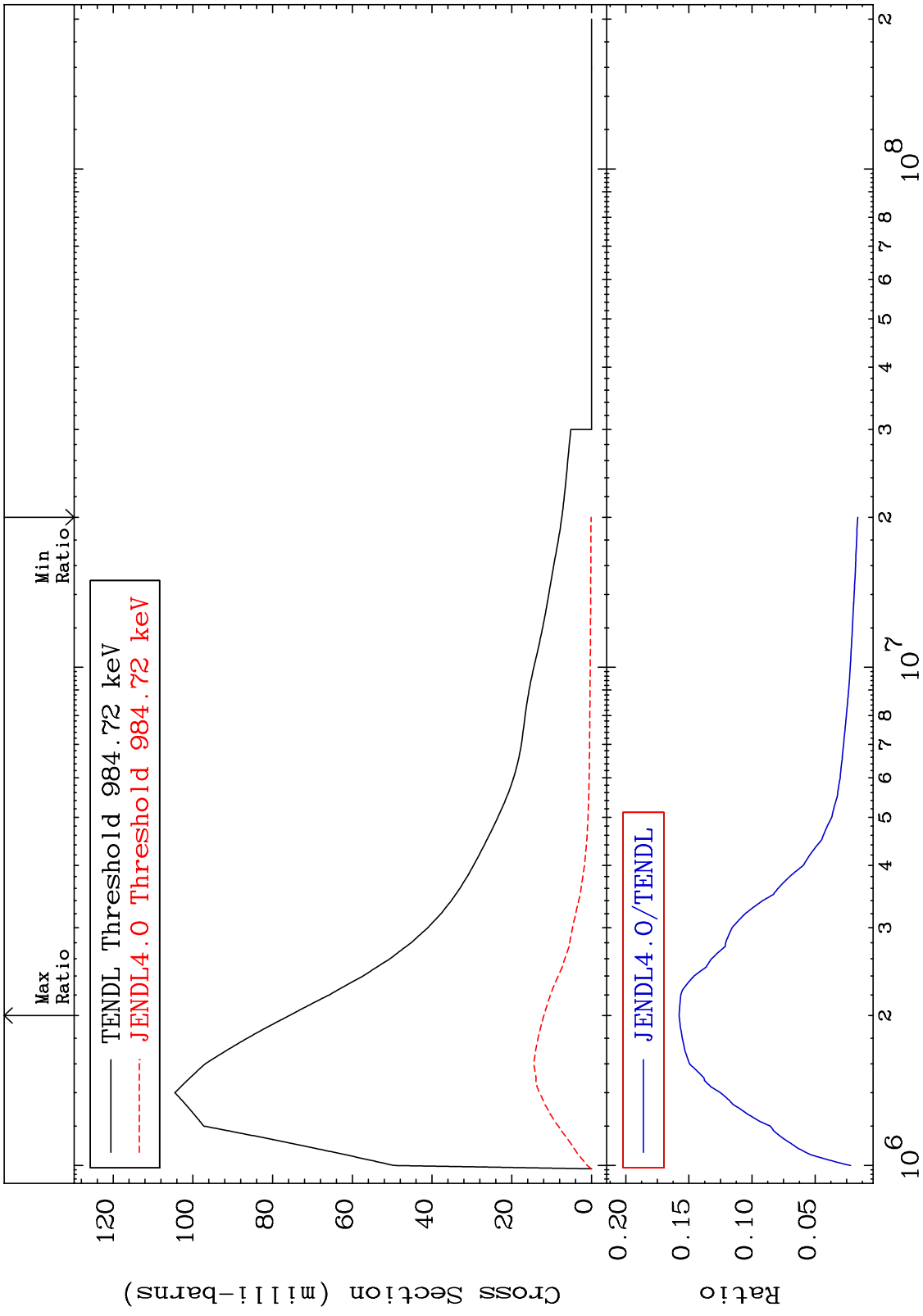


20 10⁶ 10⁷ 10⁸ 2 62-Sm-147

MAT 6234 MT= 60 (n,n') Level Cross Section -78.01 To 236.5 % 62-Sm-147

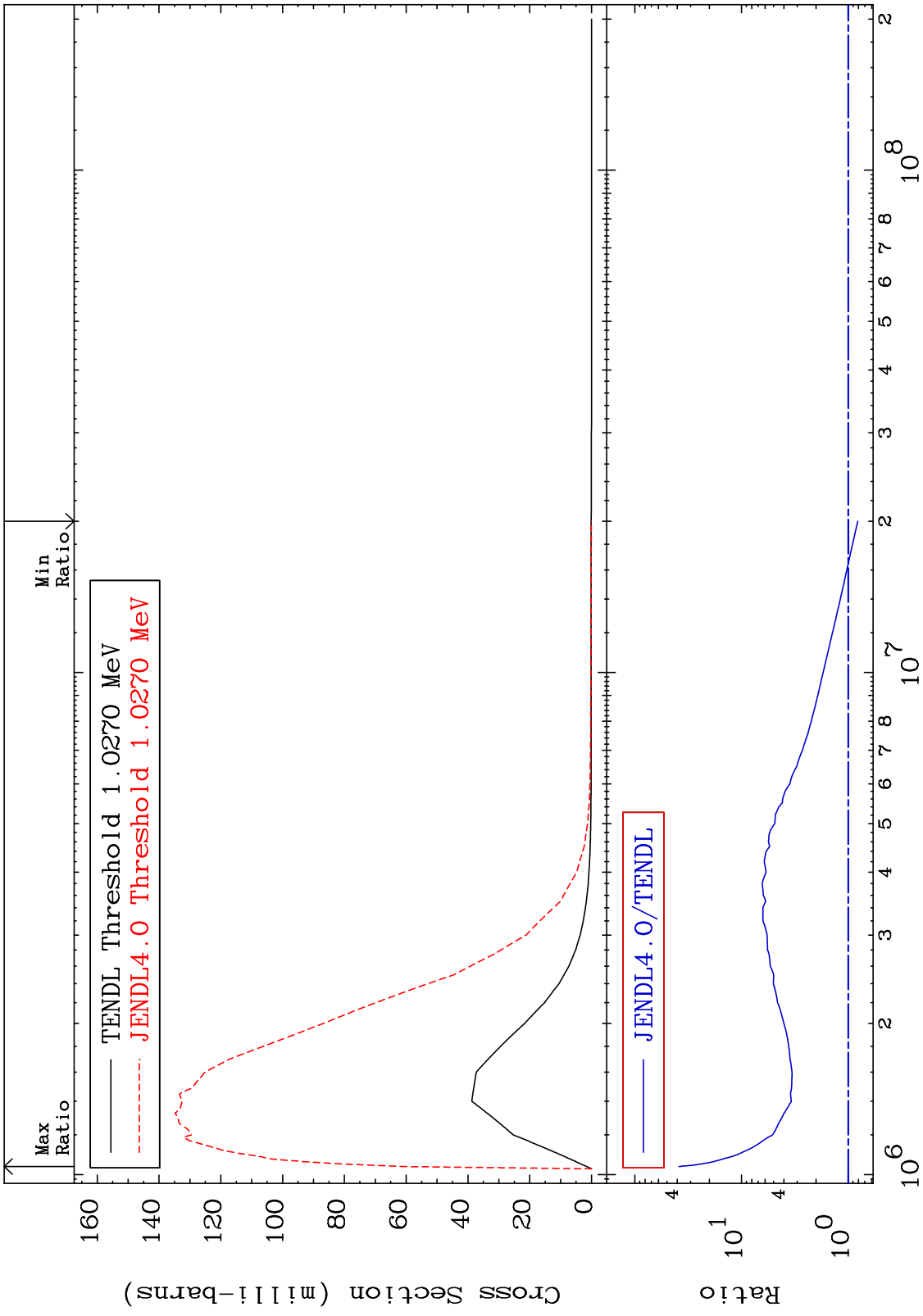


MAT 6234 MT= 61 (n,n') Level Cross Section 62-Sm-147 -98.38 To -84.22%

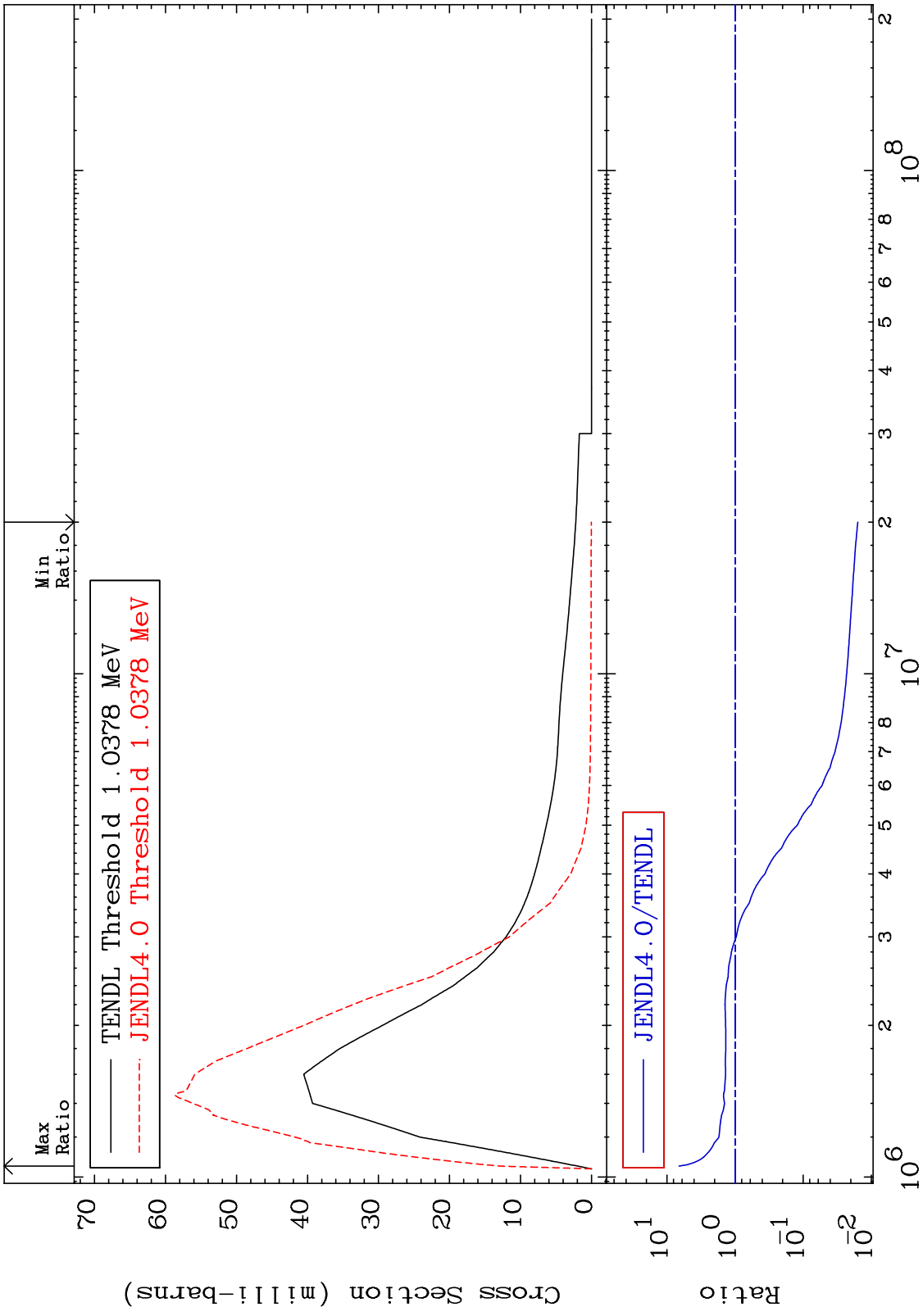


62-Sm-147

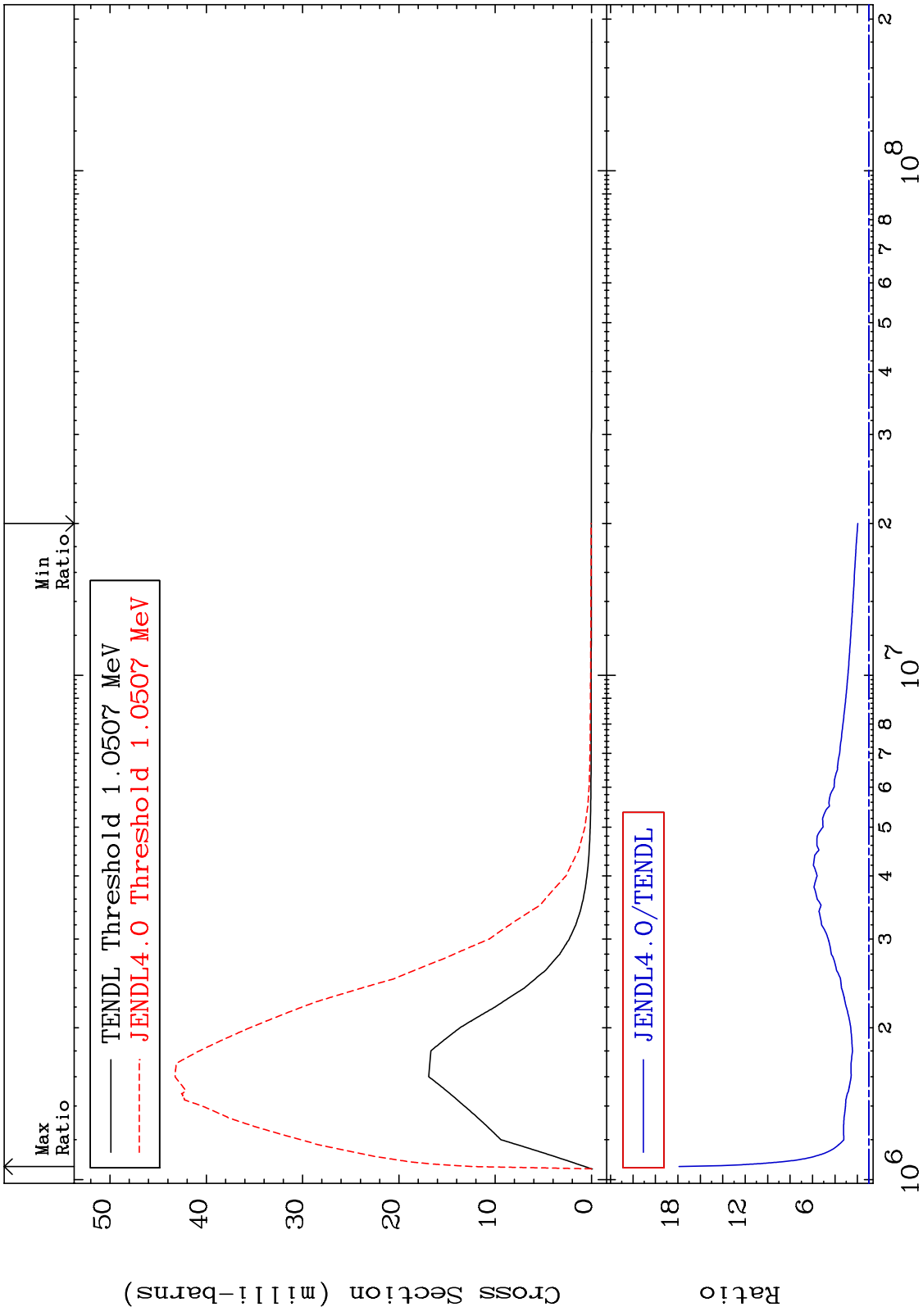
MAT 6234 MT= 62 (n,n') Level Cross Section 62-Sm-147
 -18.82 To 3749. %



MAT 6234 MT= 63 (n,n') Level Cross Section 62-Sm-147
 -98.43 To 565.2 %

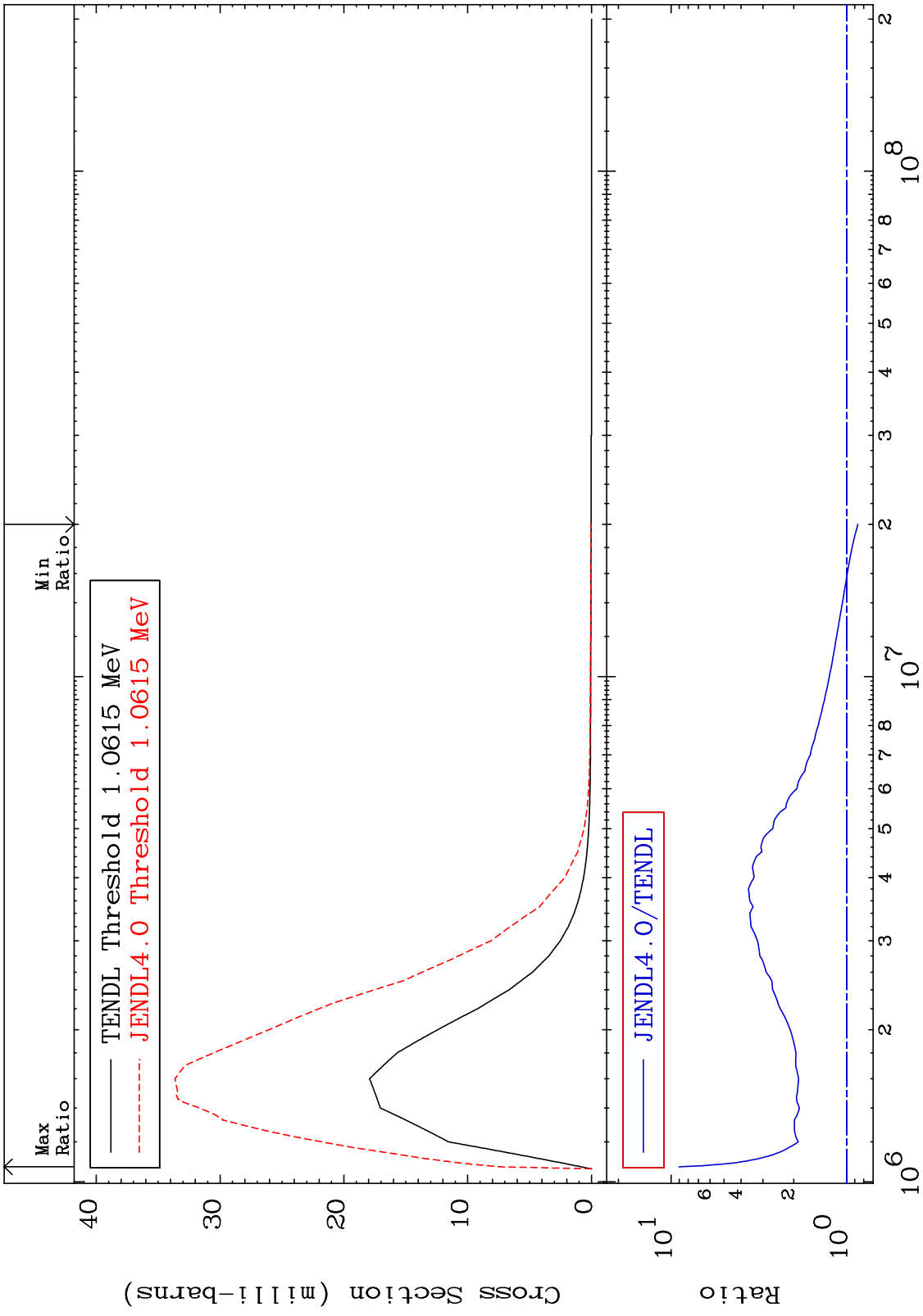


MAT 6234 MT= 64 (n,n') Level Cross Section 62-Sm-147 To 1690. %
 96.31

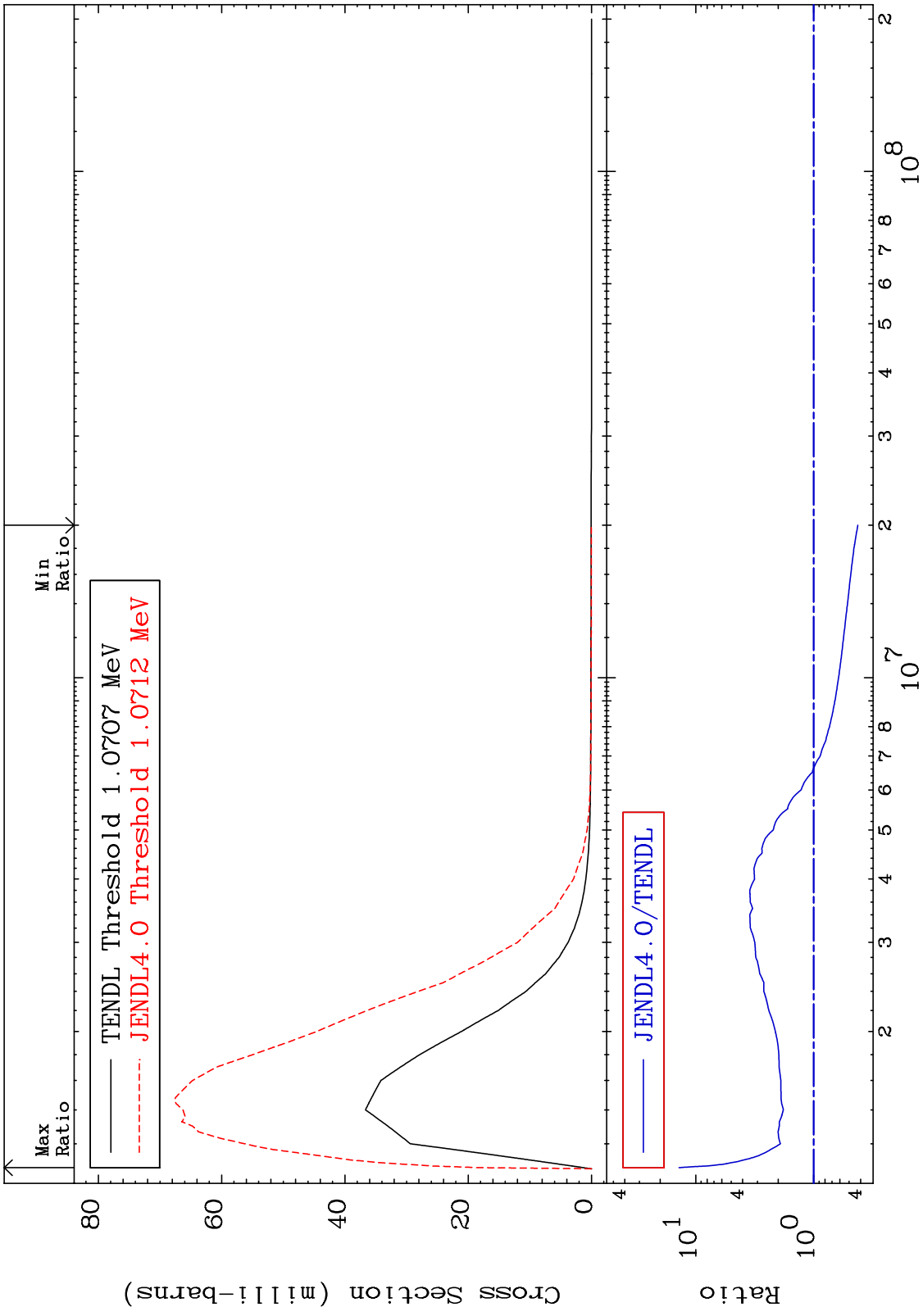


Incident Energy (eV) 62-Sm-147

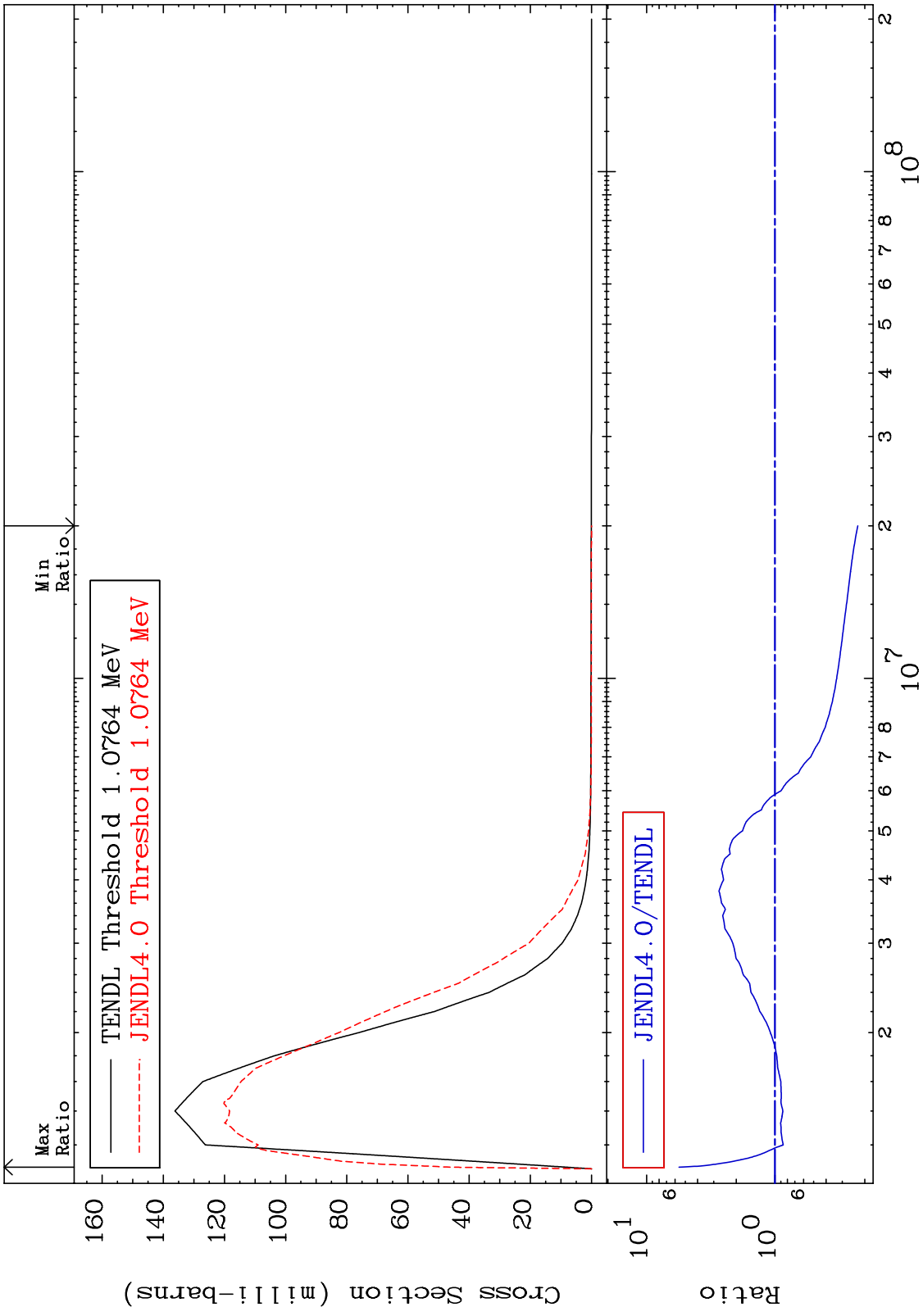
MAT 6234 MT= 65 (n,n') Level Cross Section 62-Sm-147
 -13.72 To 801.8 %



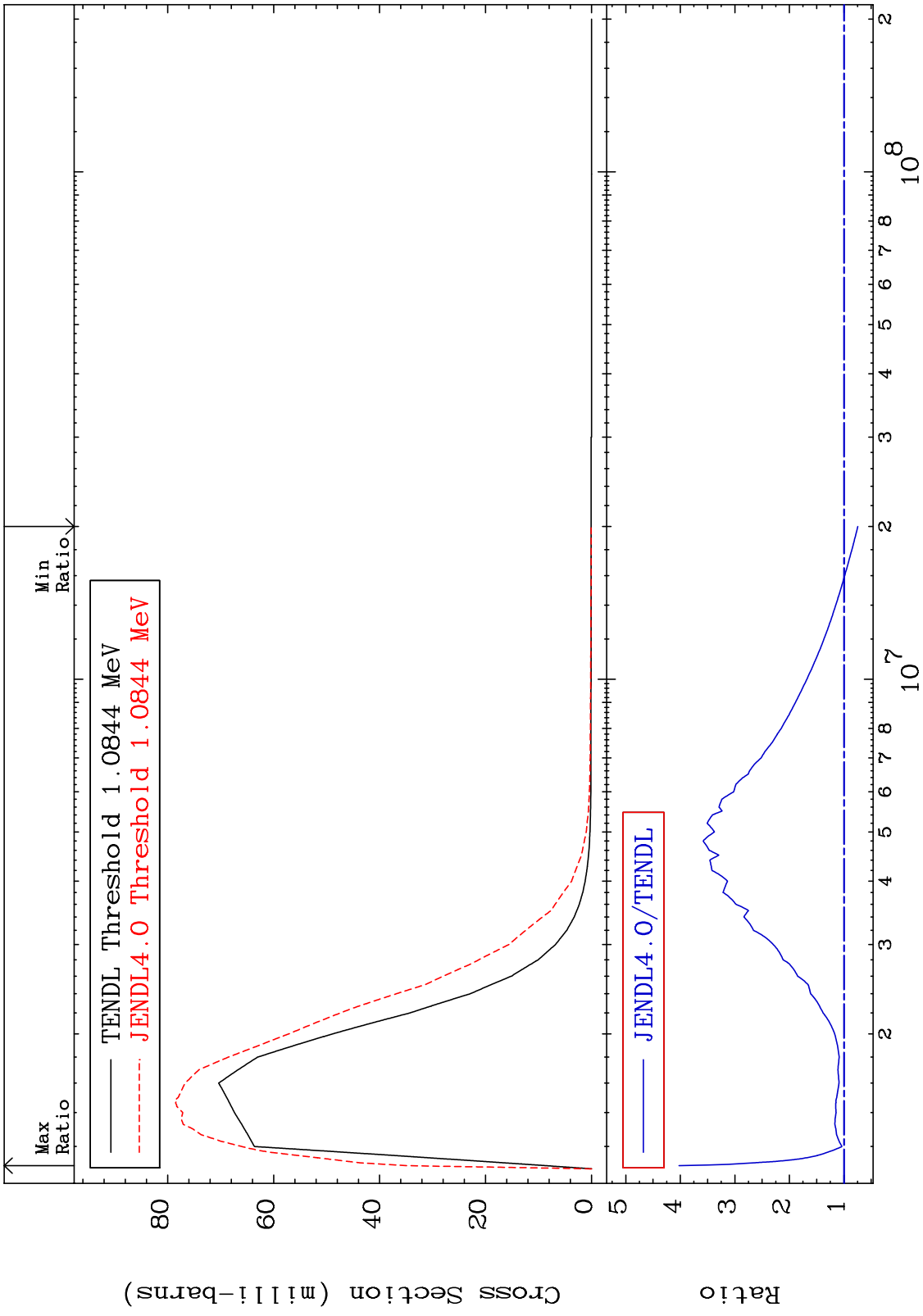
MAT 6234 MT= 66 (n,n') Level Cross Section 62-Sm-147
 -57.80 To 1285. %



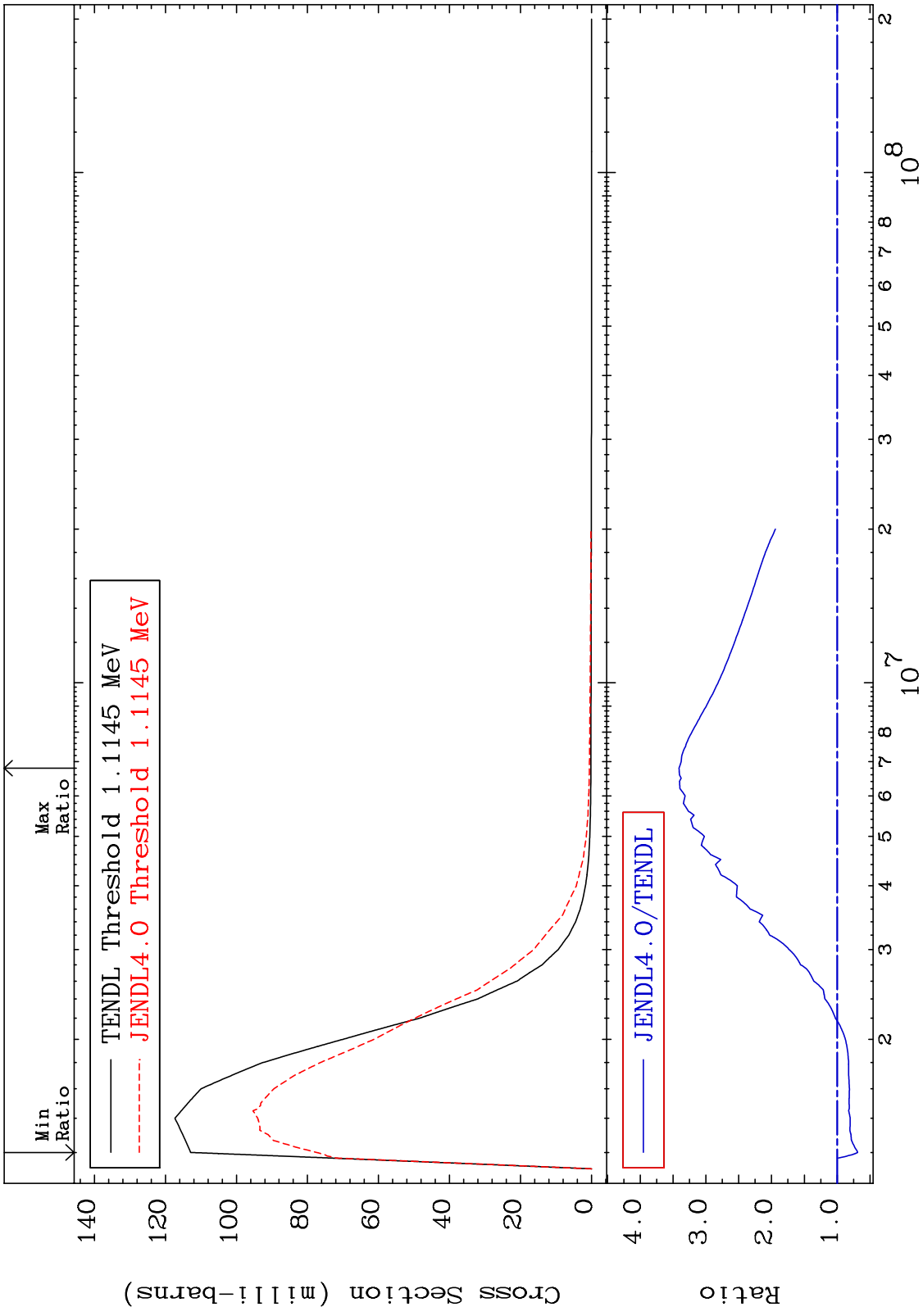
MAT 6234 MT= 67 (n,n') Level Cross Section 62-Sm-147 -77.34 To 458.4 %



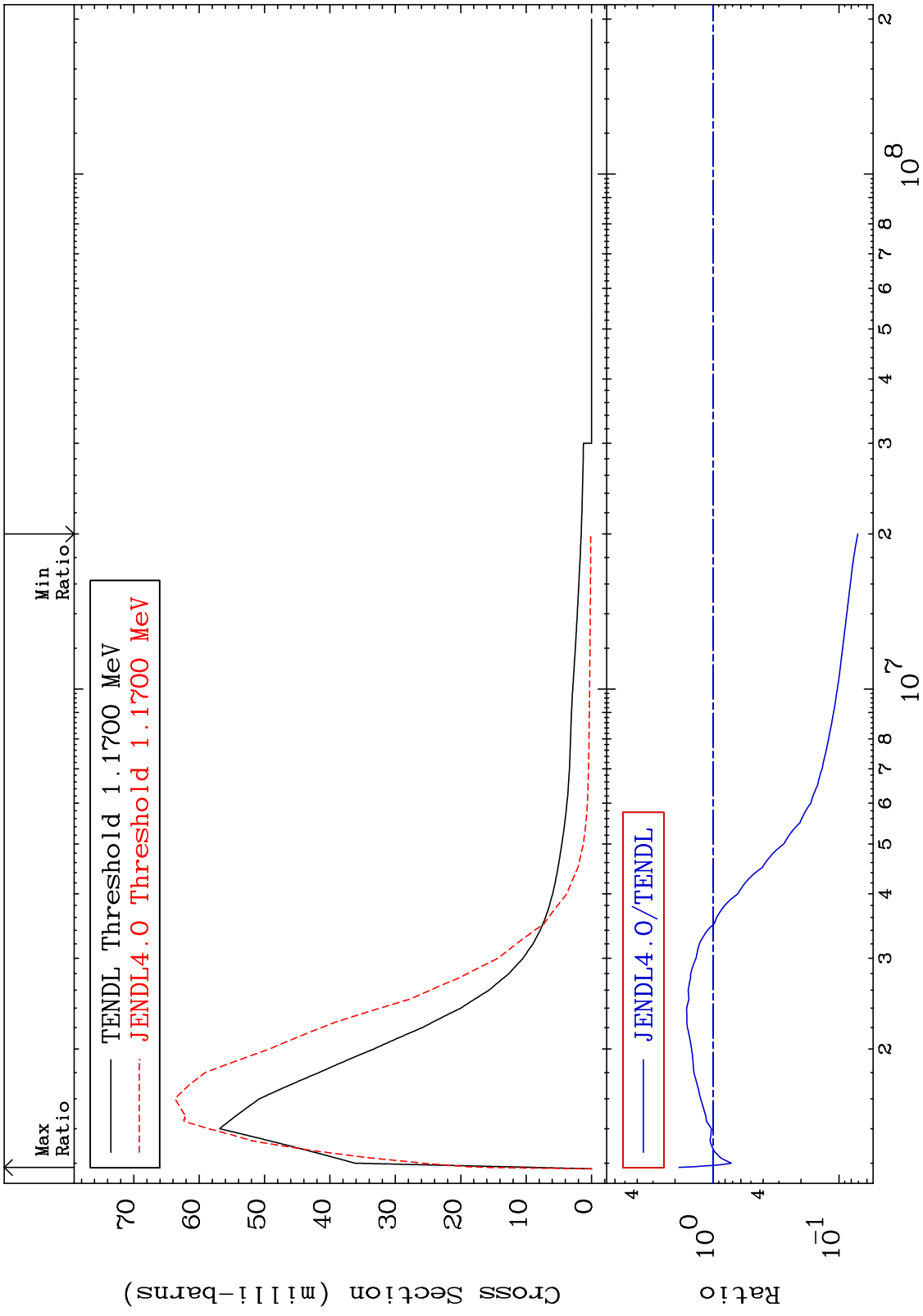
MAT 6234 MT= 68 (n,n') Level Cross Section 62-Sm-147
 -25.48 To 302.3 %



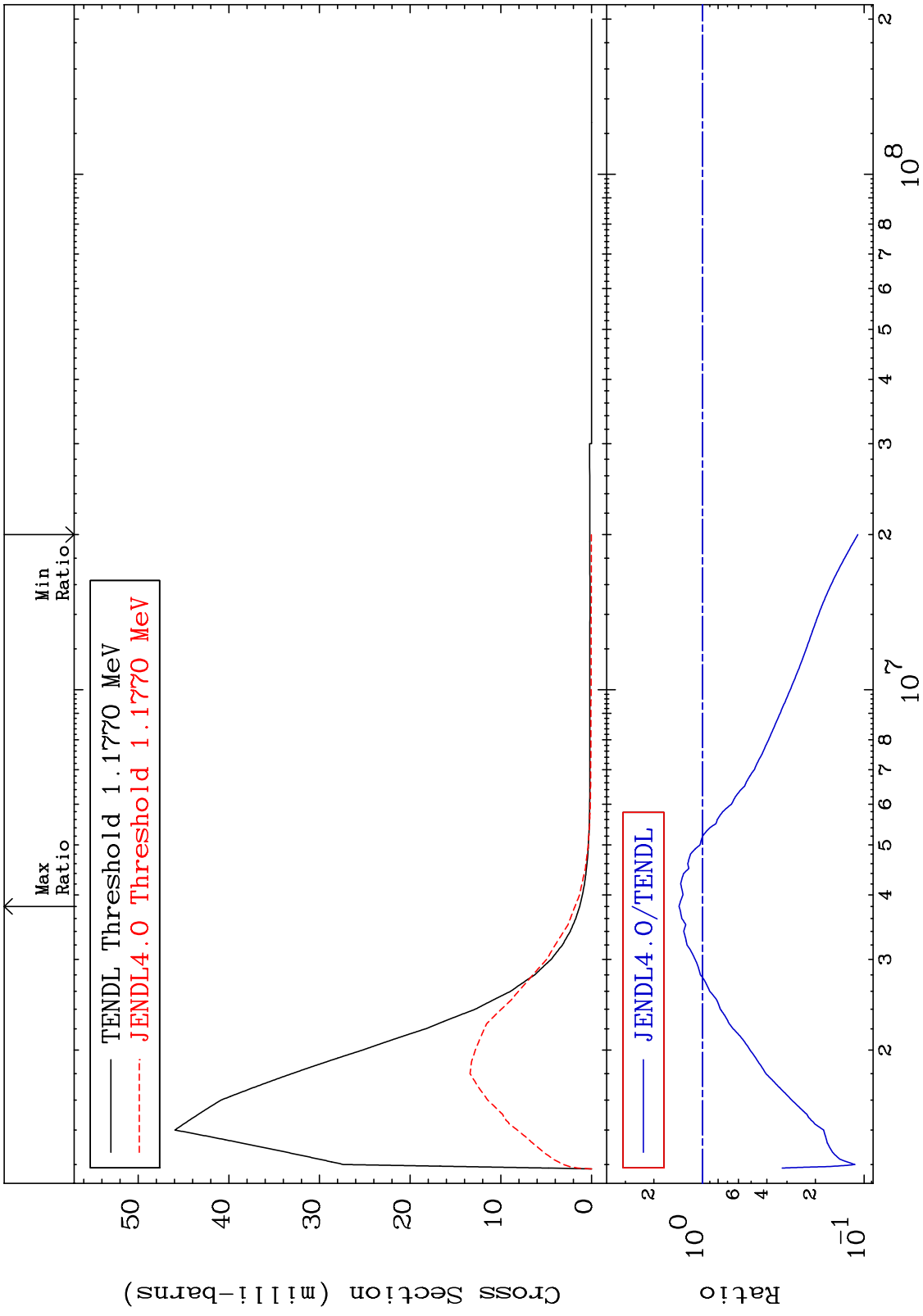
MAT 6234 MT= 69 (n,n') Level Cross Section 62-Sm-147 -31.46 To 240.9 %



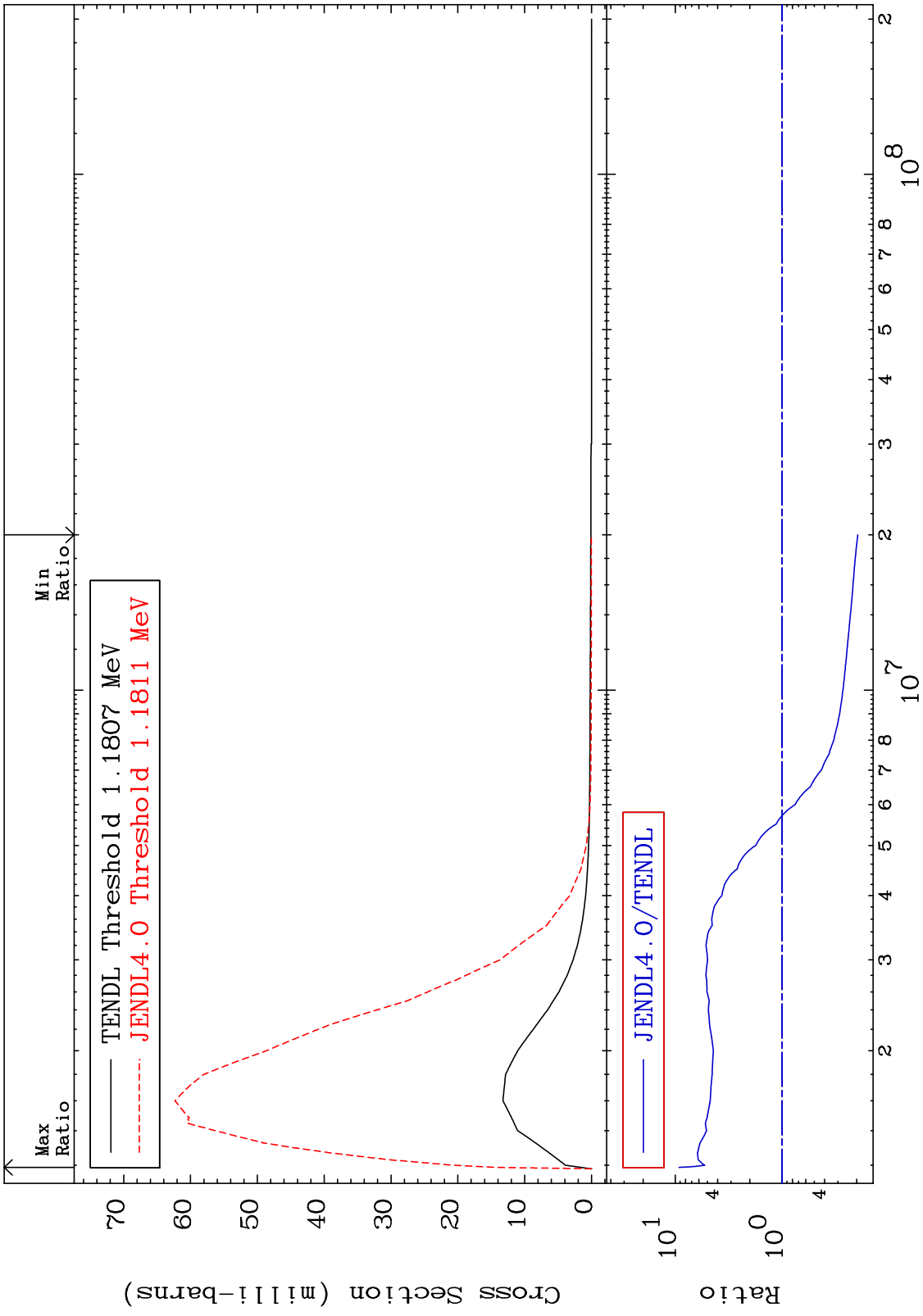
MAT 6234 MT= 70 (n,n') Level Cross Section 62-Sm-147 -92.92 To 85.96 %



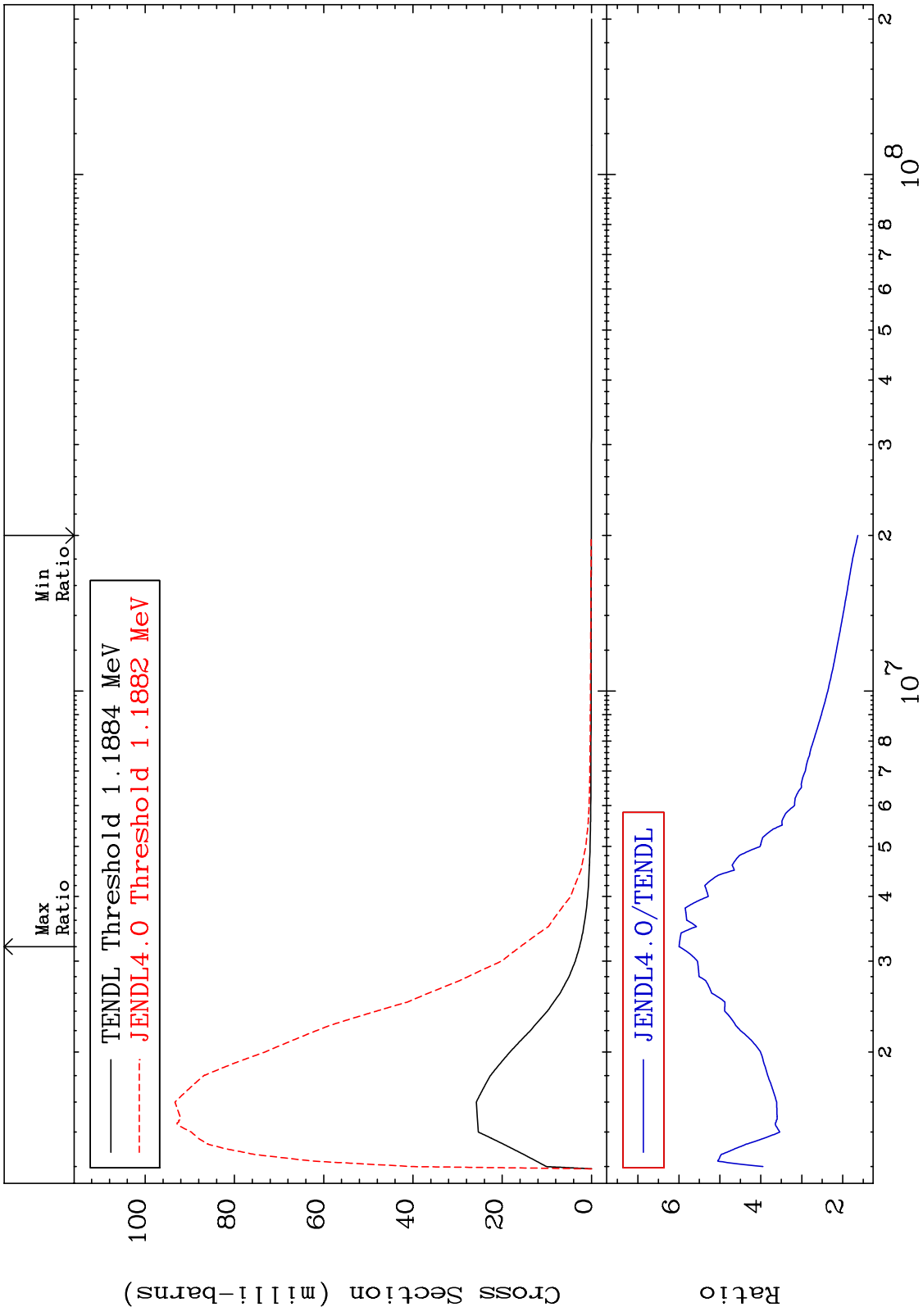
MAT 6234 MT= 71 (n,n') Level Cross Section 62-Sm-147 -89.07 To 39.70 %



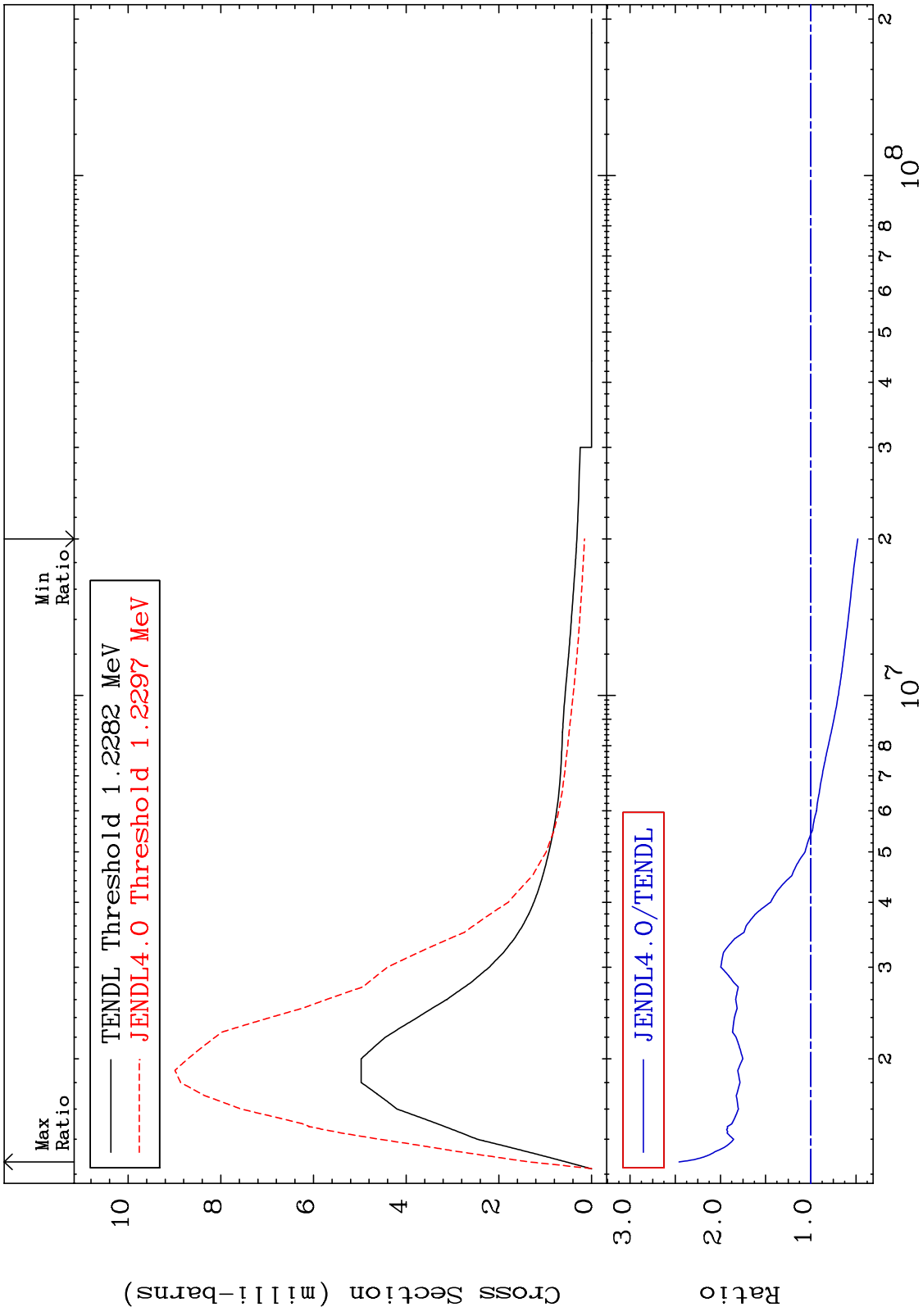
MAT 6234 MT= 72 (n,n') Level Cross Section 62-Sm-147 -80.46 To 820.3 %



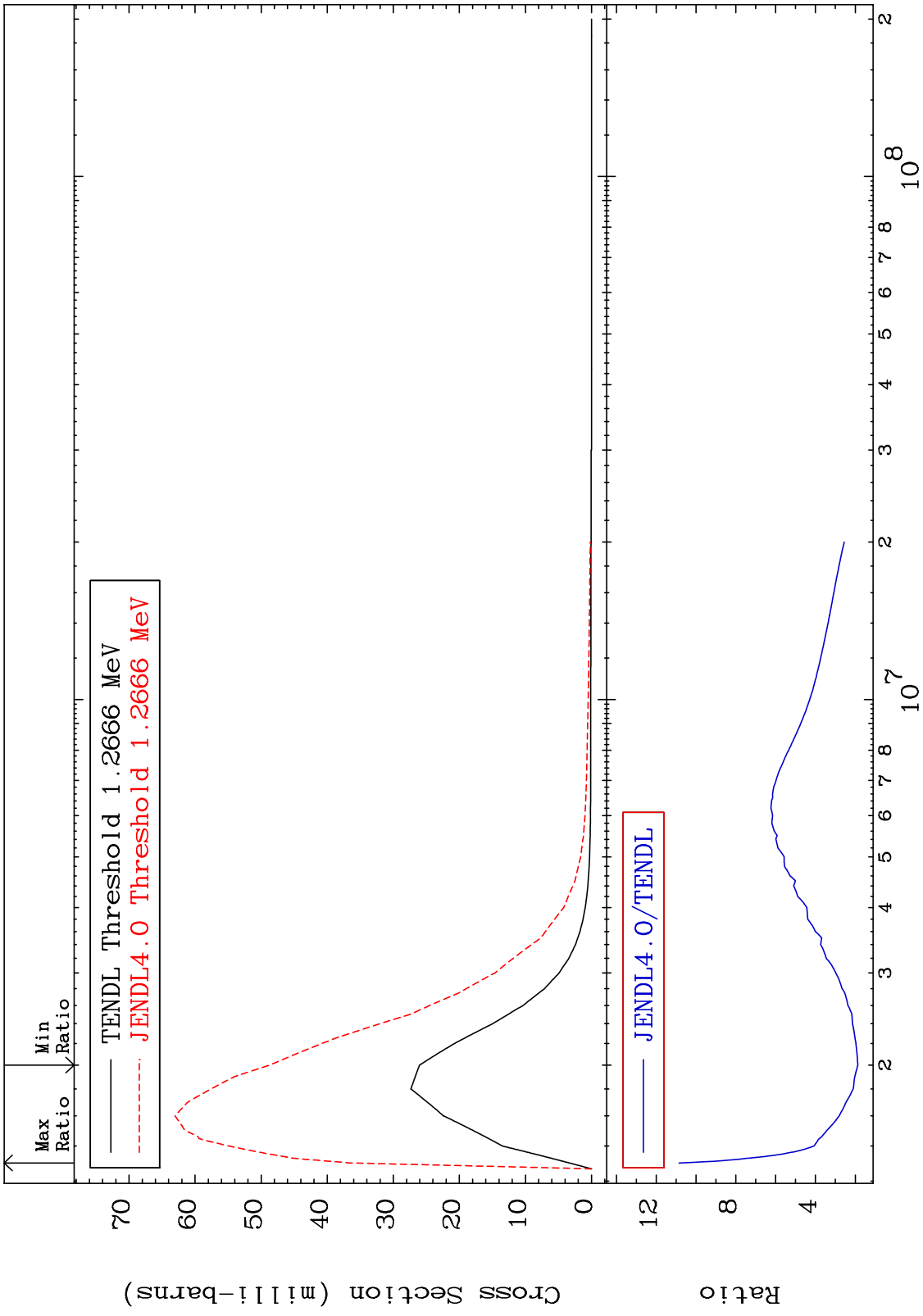
MAT 6234 MT= 73 (n,n') Level Cross Section 62-Sm-147 63.08 To 499.6 %



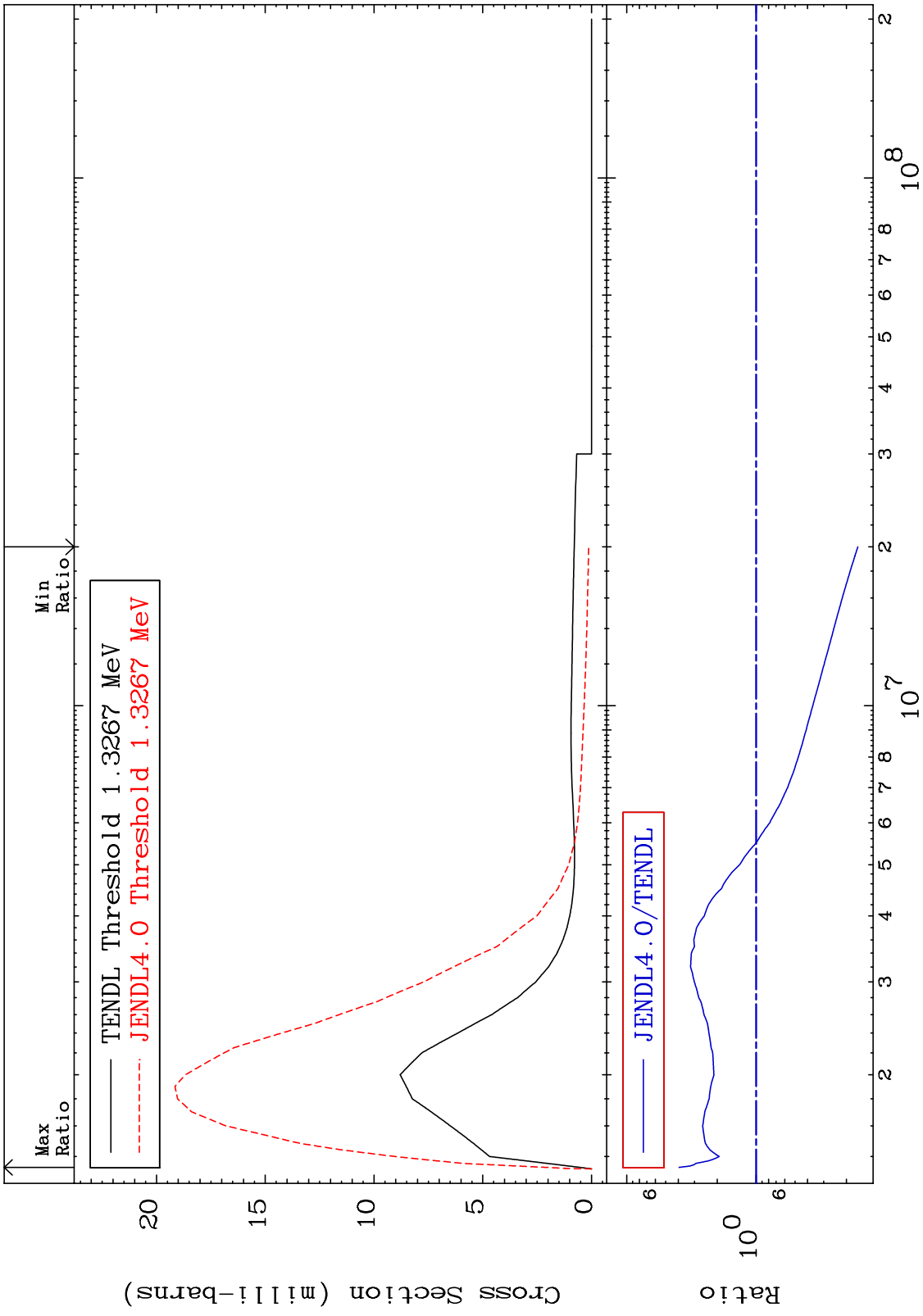
MAT 6234 MT= 74 (n,n') Level Cross Section 62-Sm-147 -52.09 To 145.8 %



MAT 6234 MT= 75 (n,n') Level Cross Section 62-Sm-147 87.14 To 985.2 %



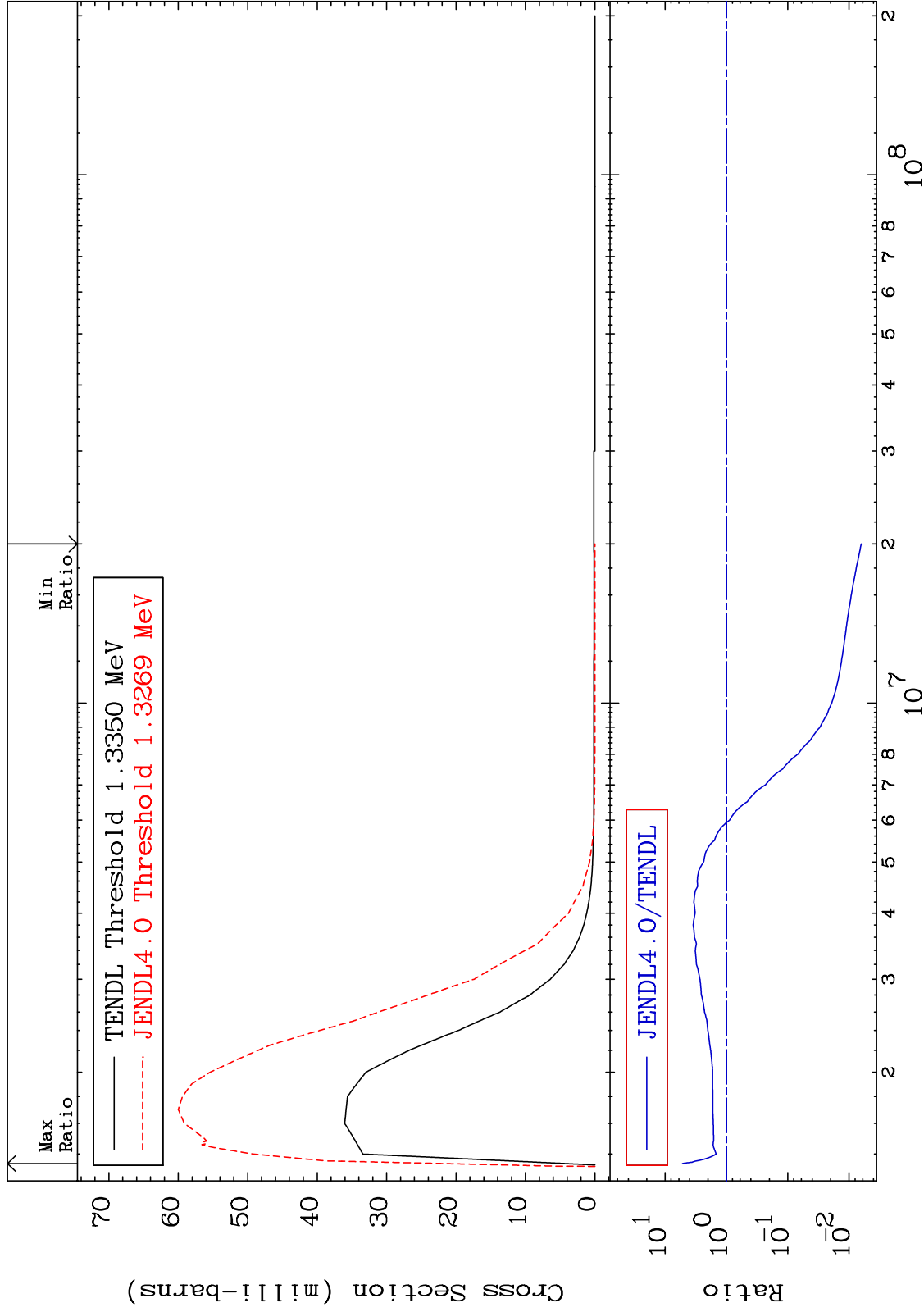
MAT 6234 MT= 76 (n,n') Level Cross Section 62-Sm-147 -83.66 To 294.3 %



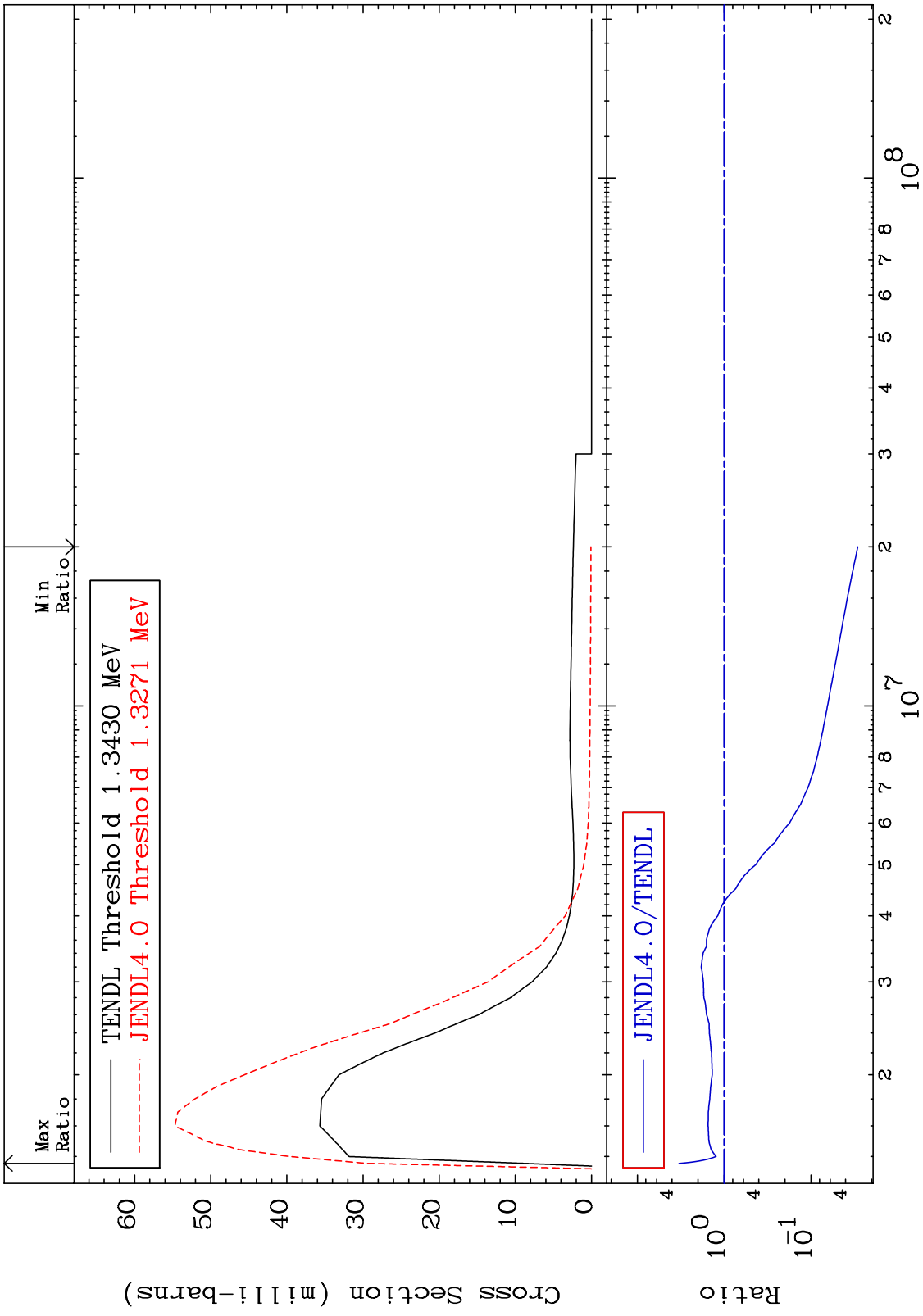
MAT 6234

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

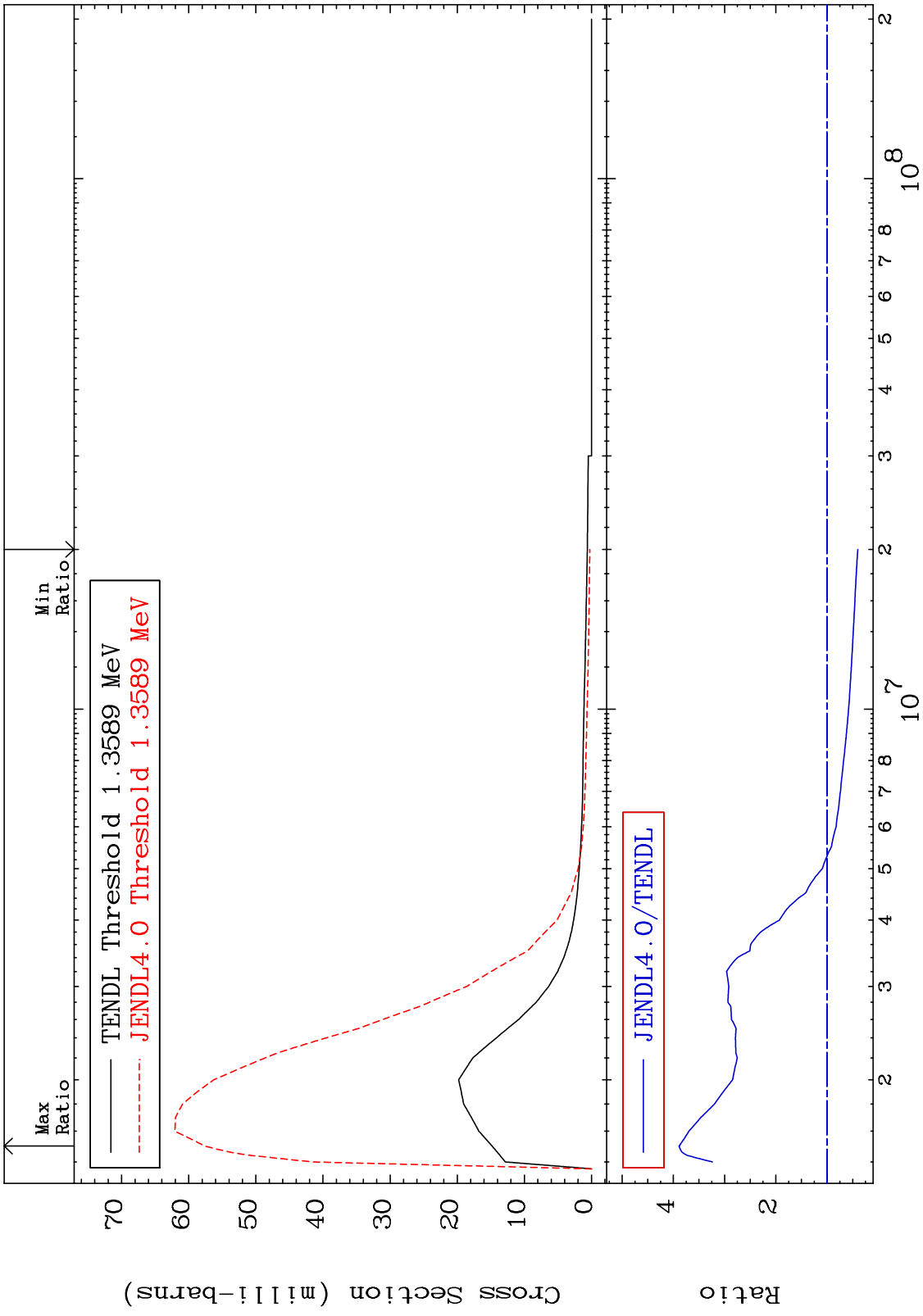
62-Sm-147
-99.37 To 422.6 %



MAT 6234 MT= 78 (n,n') Level Cross Section 62-Sm-147 -97.10 To 231.5 %

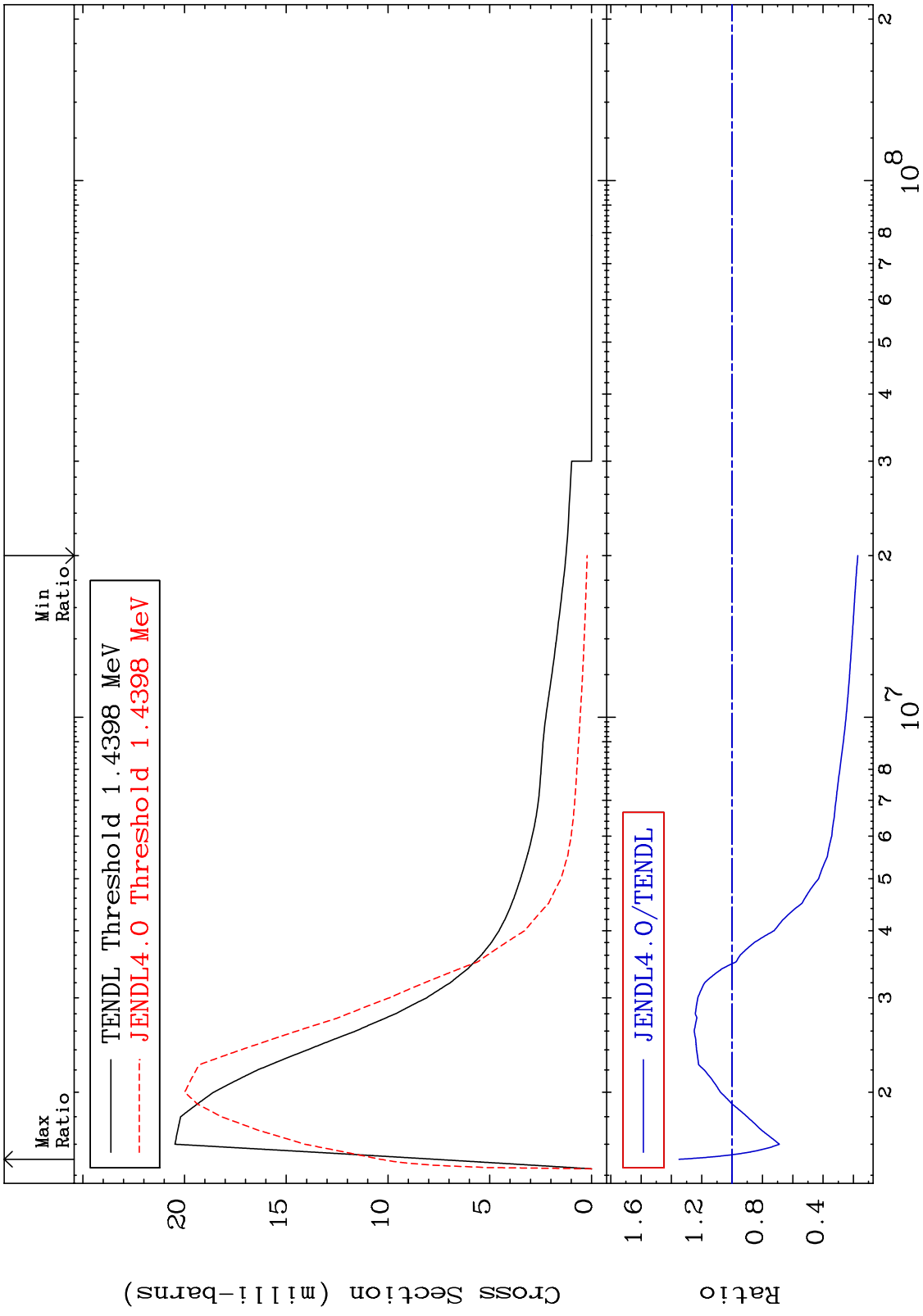


MAT 6234 MT= 79 (n,n') Level Cross Section 62-Sm-147
 -60.10 To 288.9 %



40 62-Sm-147

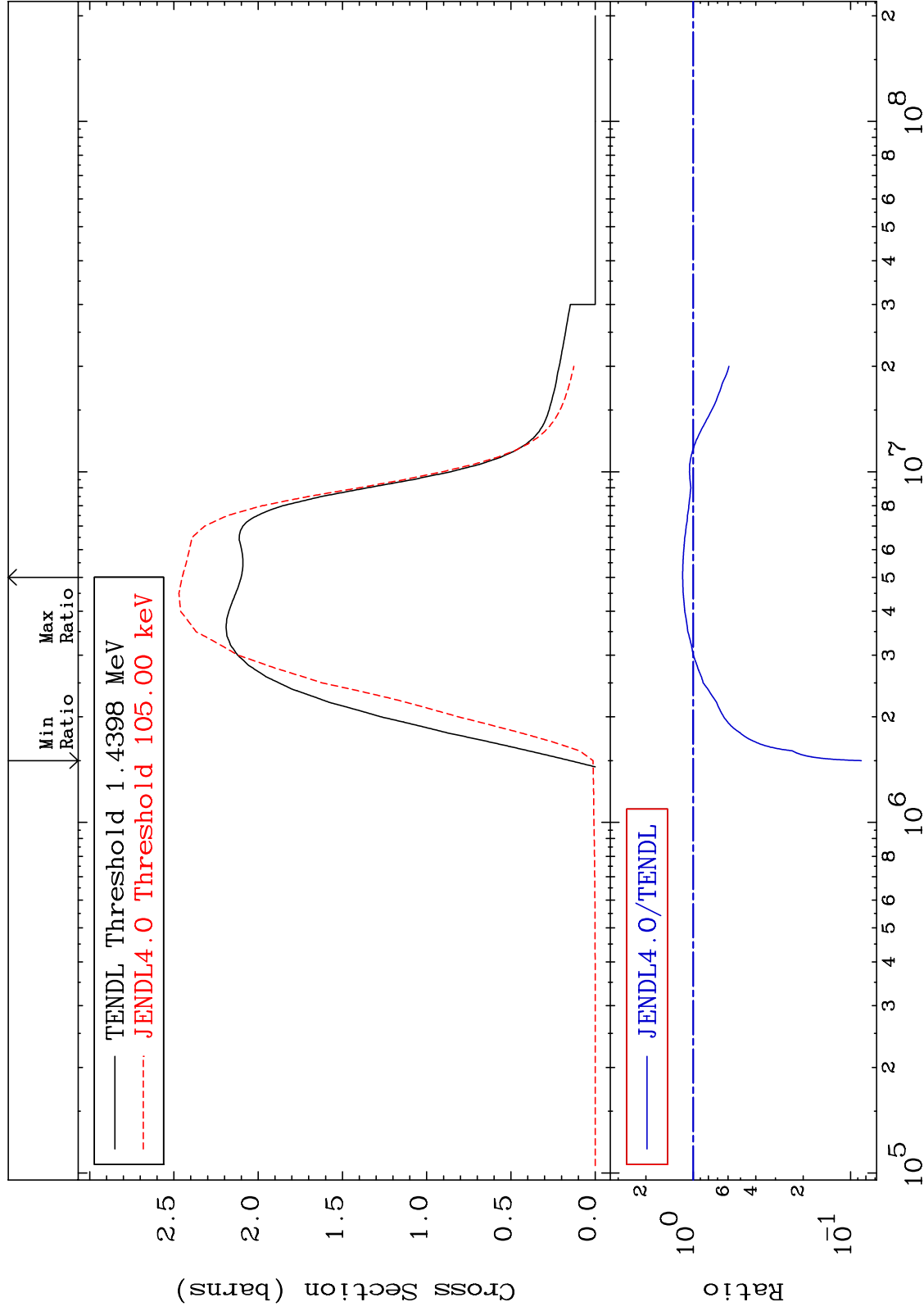
MAT 6234 MT= 80 (n,n') Level Cross Section 62-Sm-147
 -82.90 To 34.97 %



MAT 6234

(n, n') Continuum
Cross Section

62-Sm-147
-91.45 To 16.65 %



42

Incident Energy (eV)

62-Sm-147

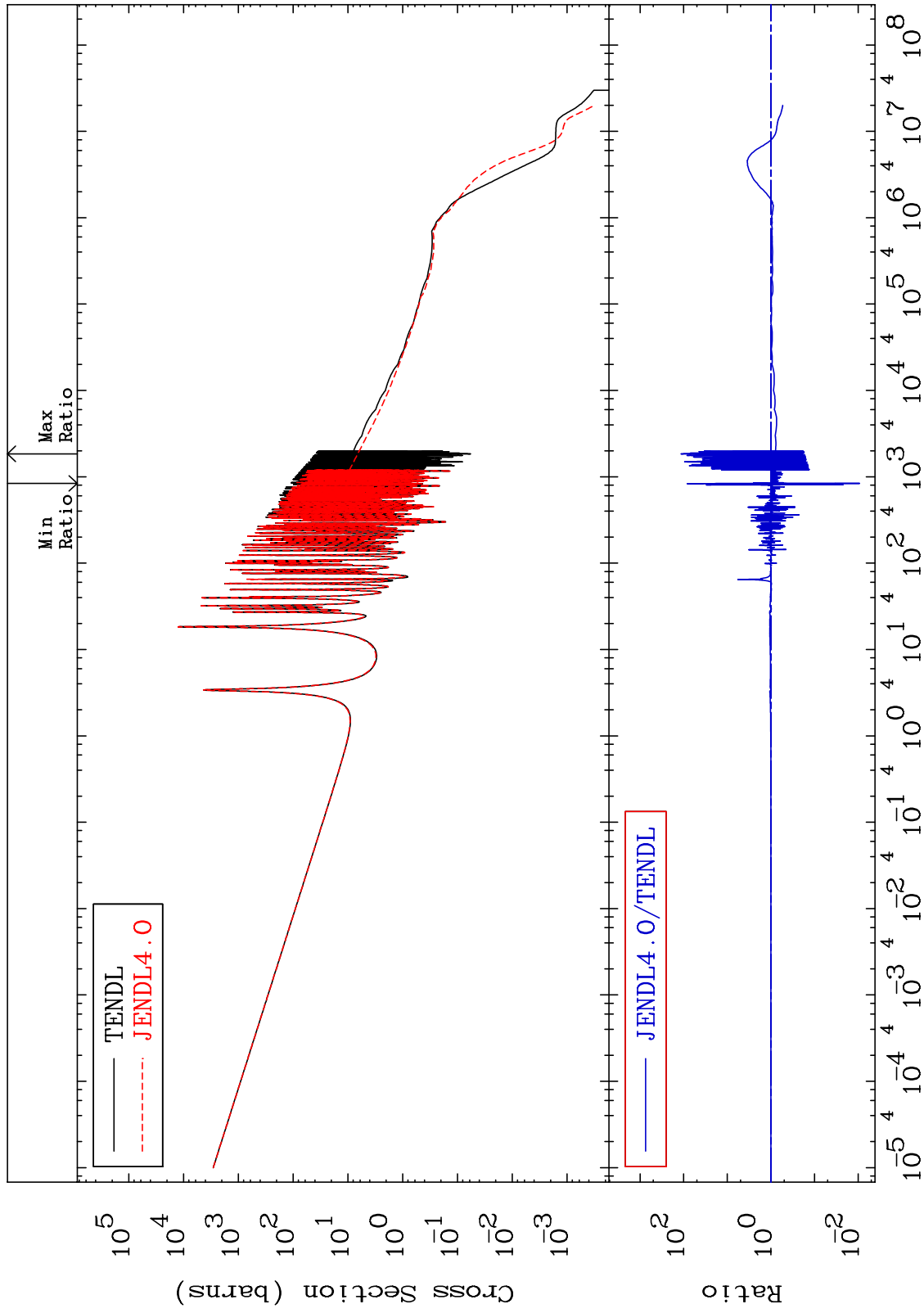
MAT 6234

(n, γ)

62-Sm-147

-99.08 To 9999. %

Cross Section

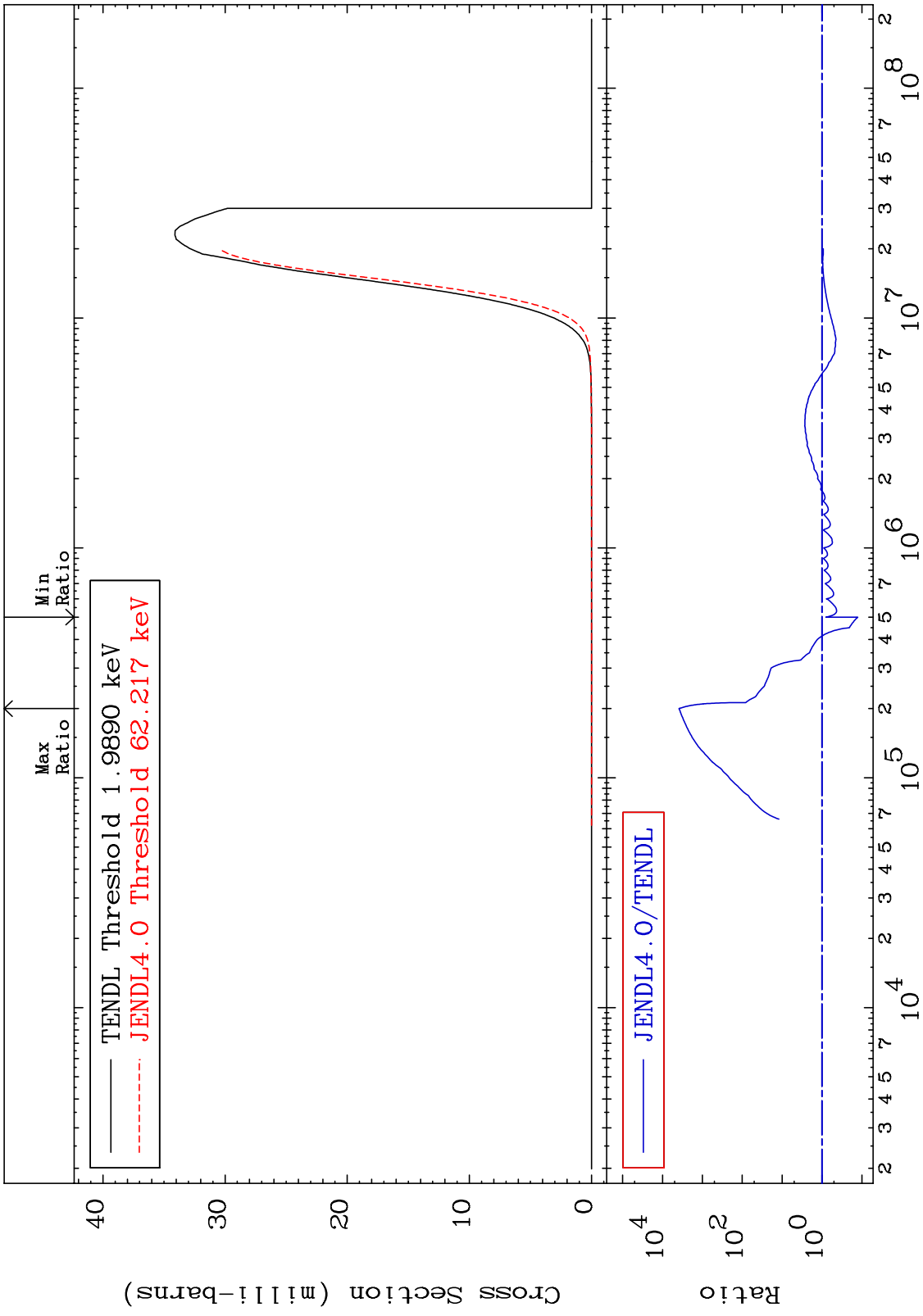


43

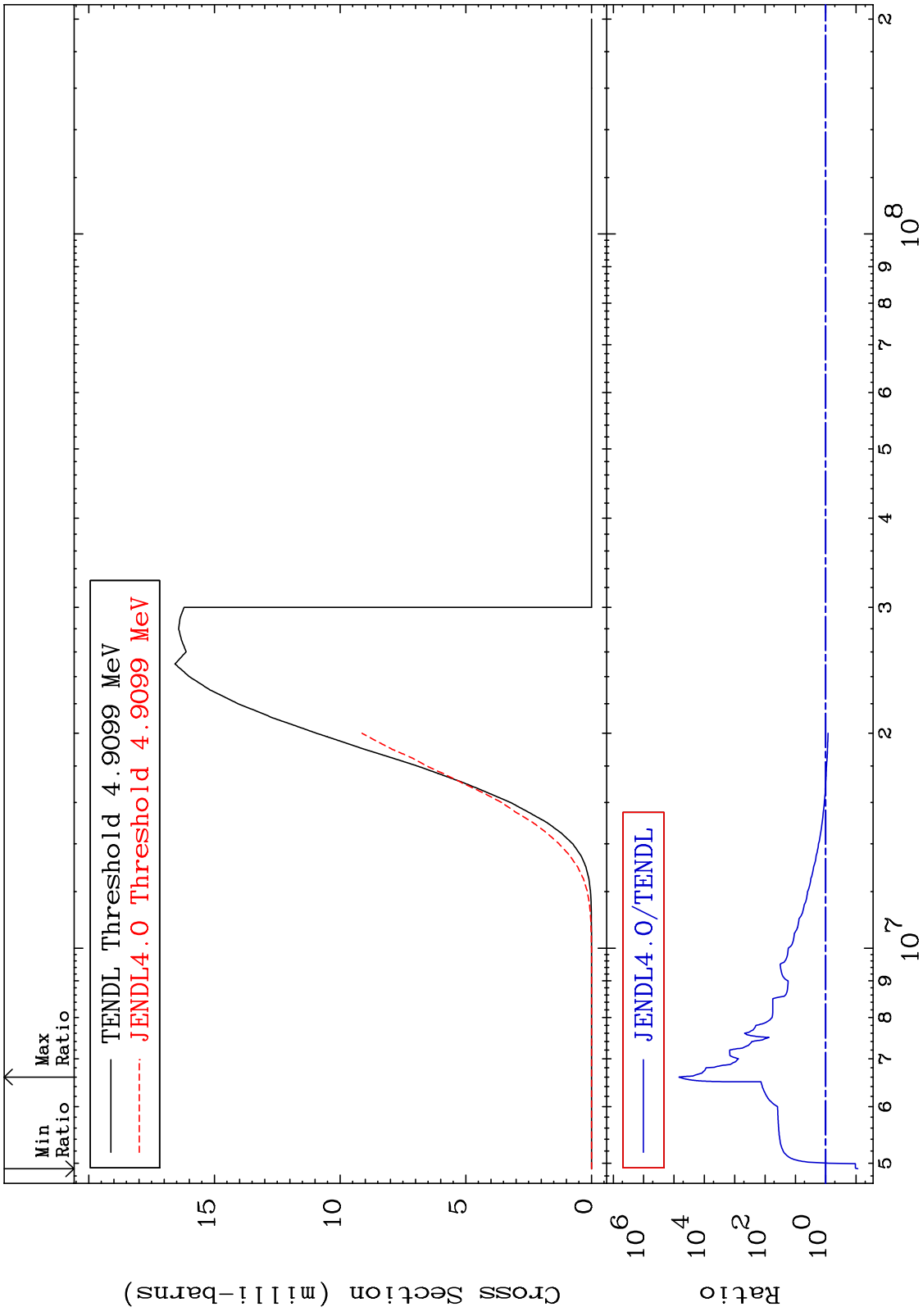
Incident Energy (eV)

62-Sm-147

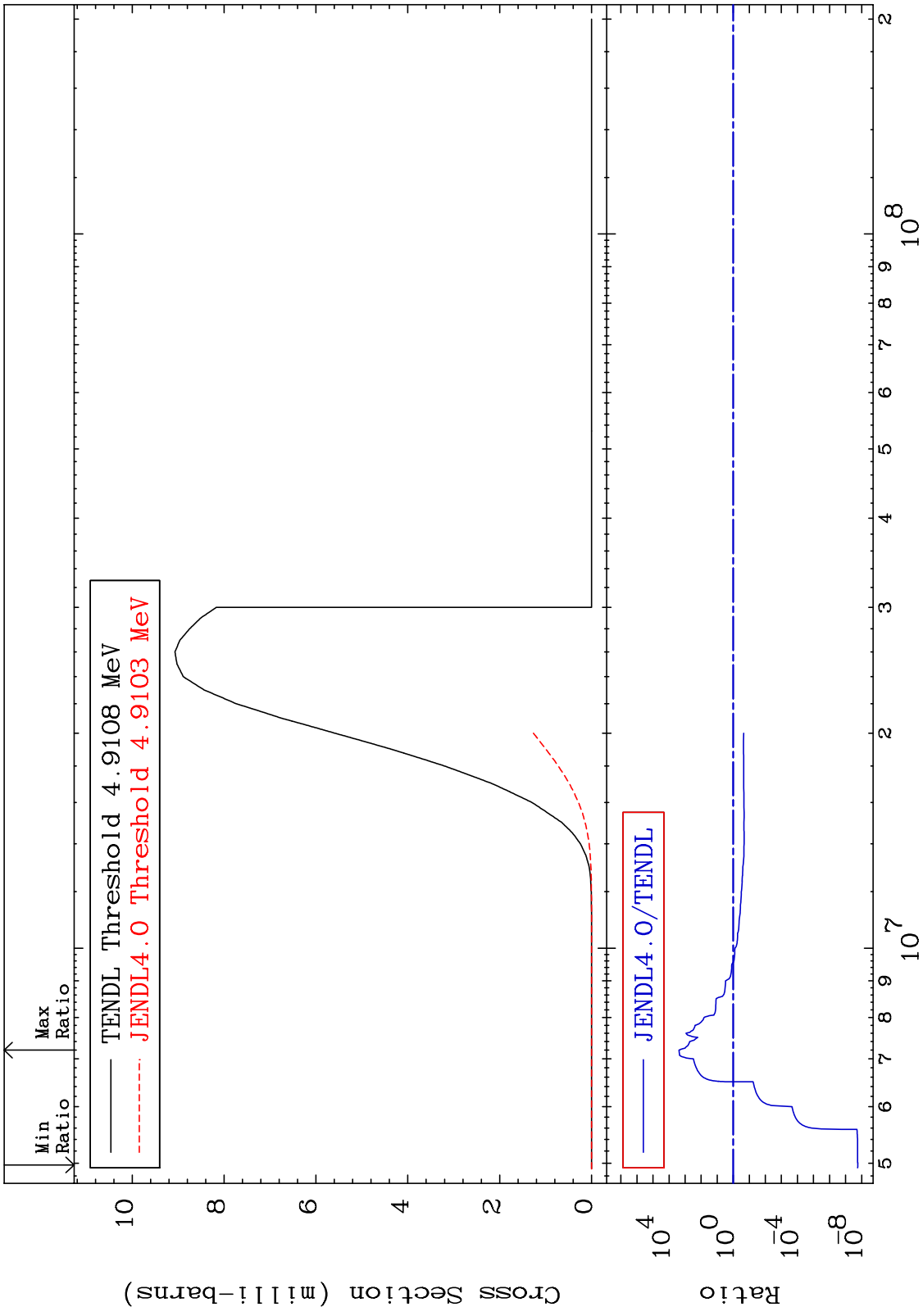
MAT 6234 (n,p) Cross Section 62-Sm-147 -87.37 To 9999. %

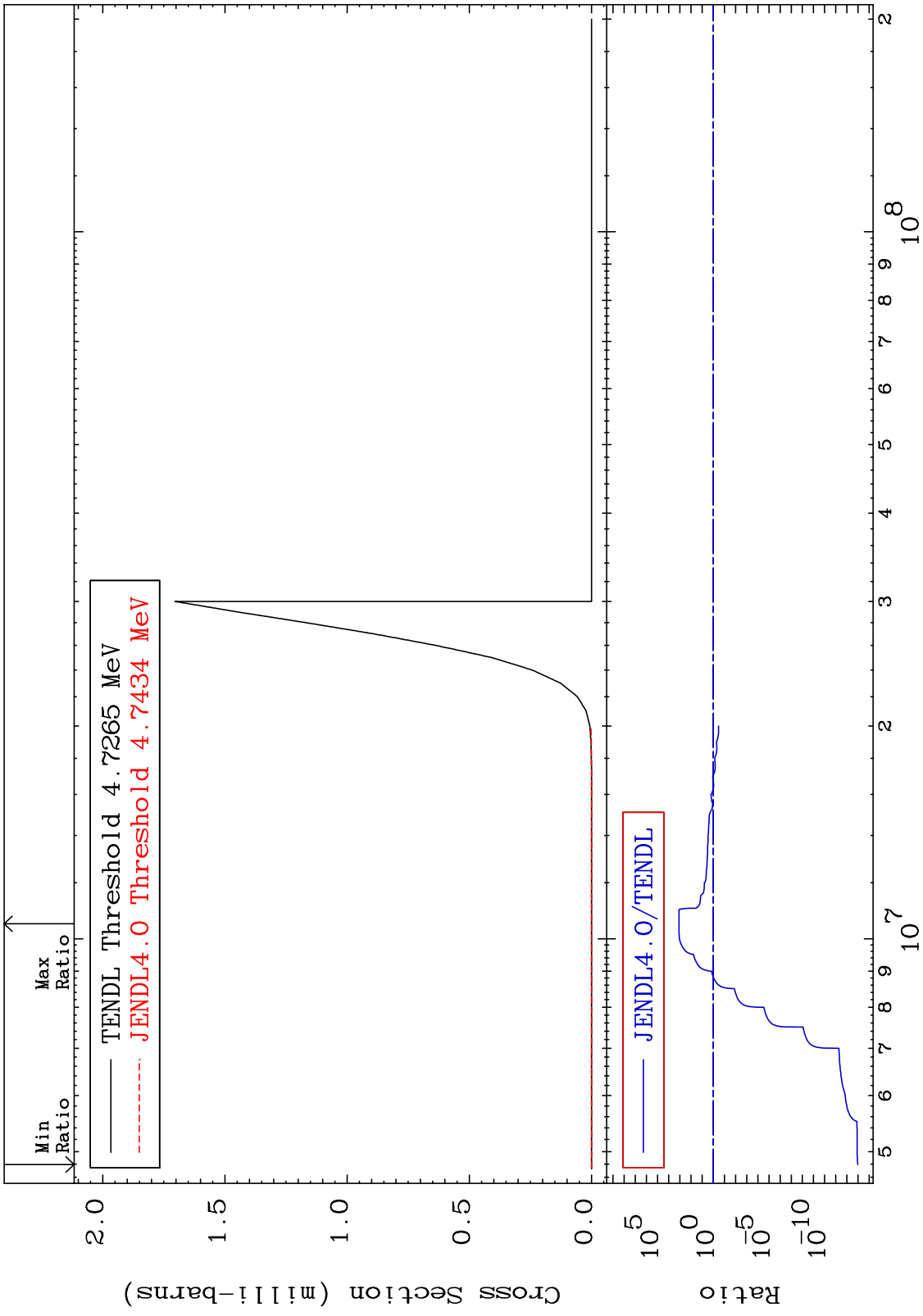


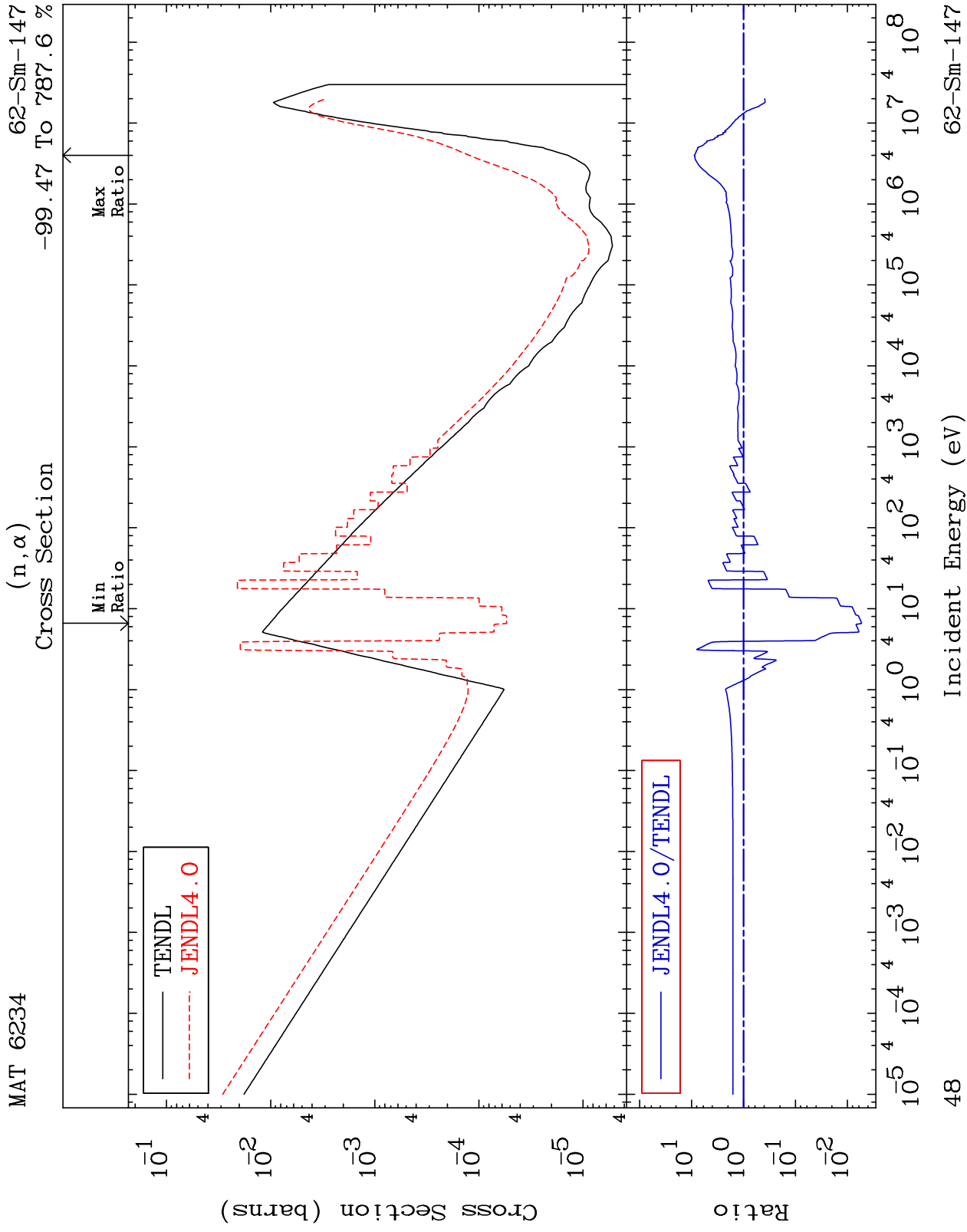
MAT 6234 (n,d) Cross Section 62-Sm-147 -91.26 To 9999. %



45 62-Sm-147 Incident Energy (eV)



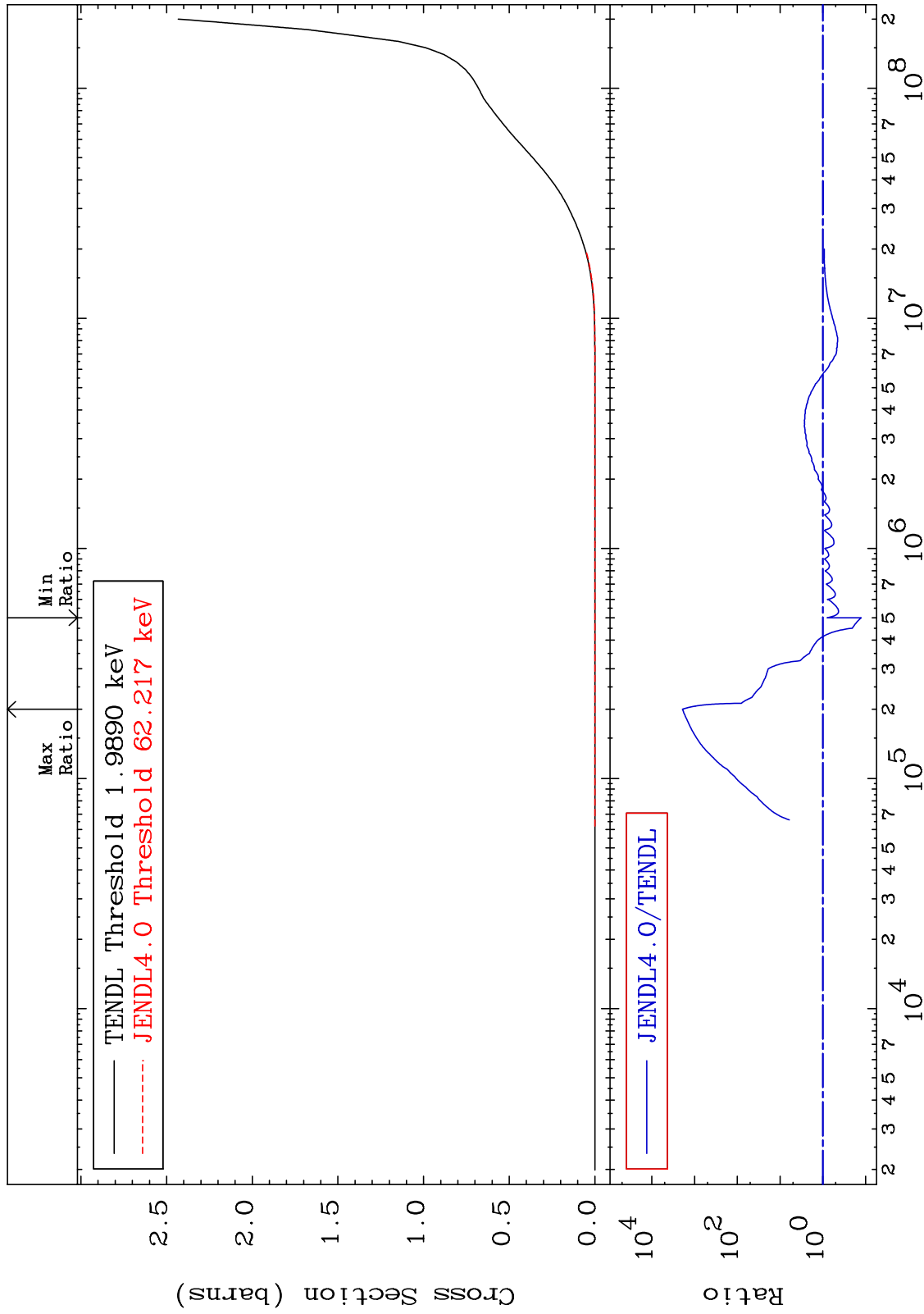




MAT 6234

Hydrogen Production
Cross Section

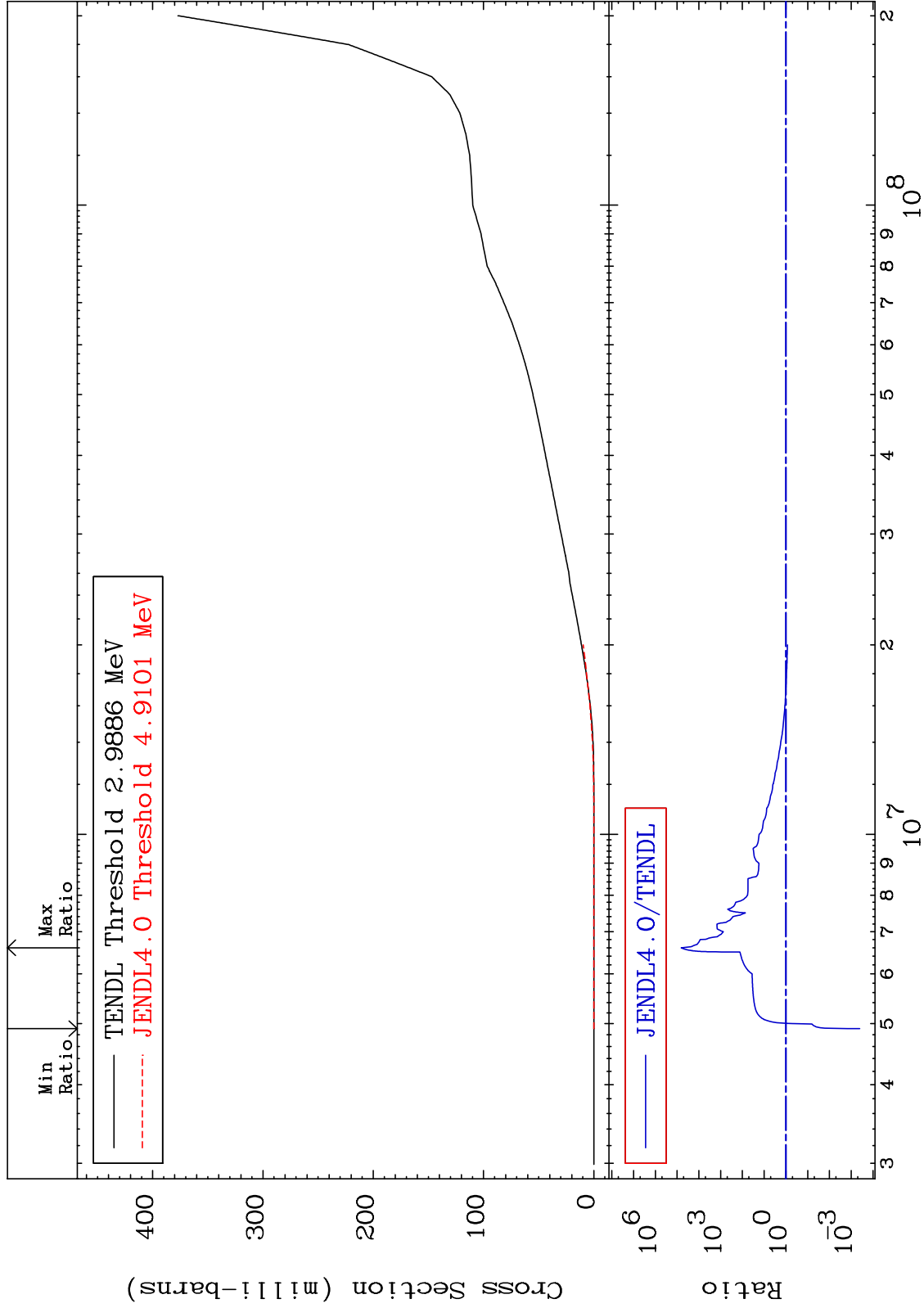
62-Sm-147
-87.37 To 9999. %

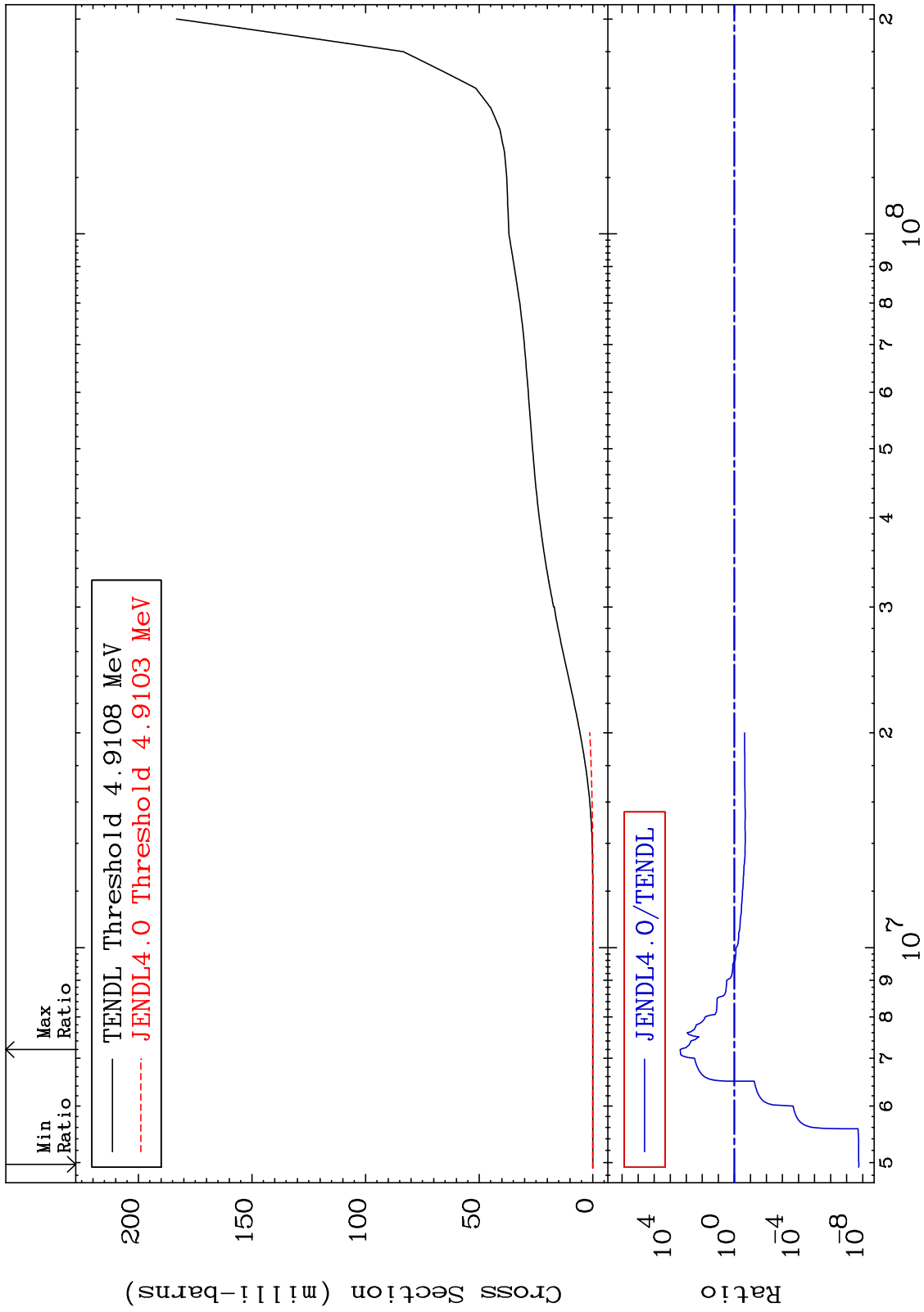


MAT 6234

Deuterium Production Cross Section

62-Sm-147
-99.96 To 9999. %

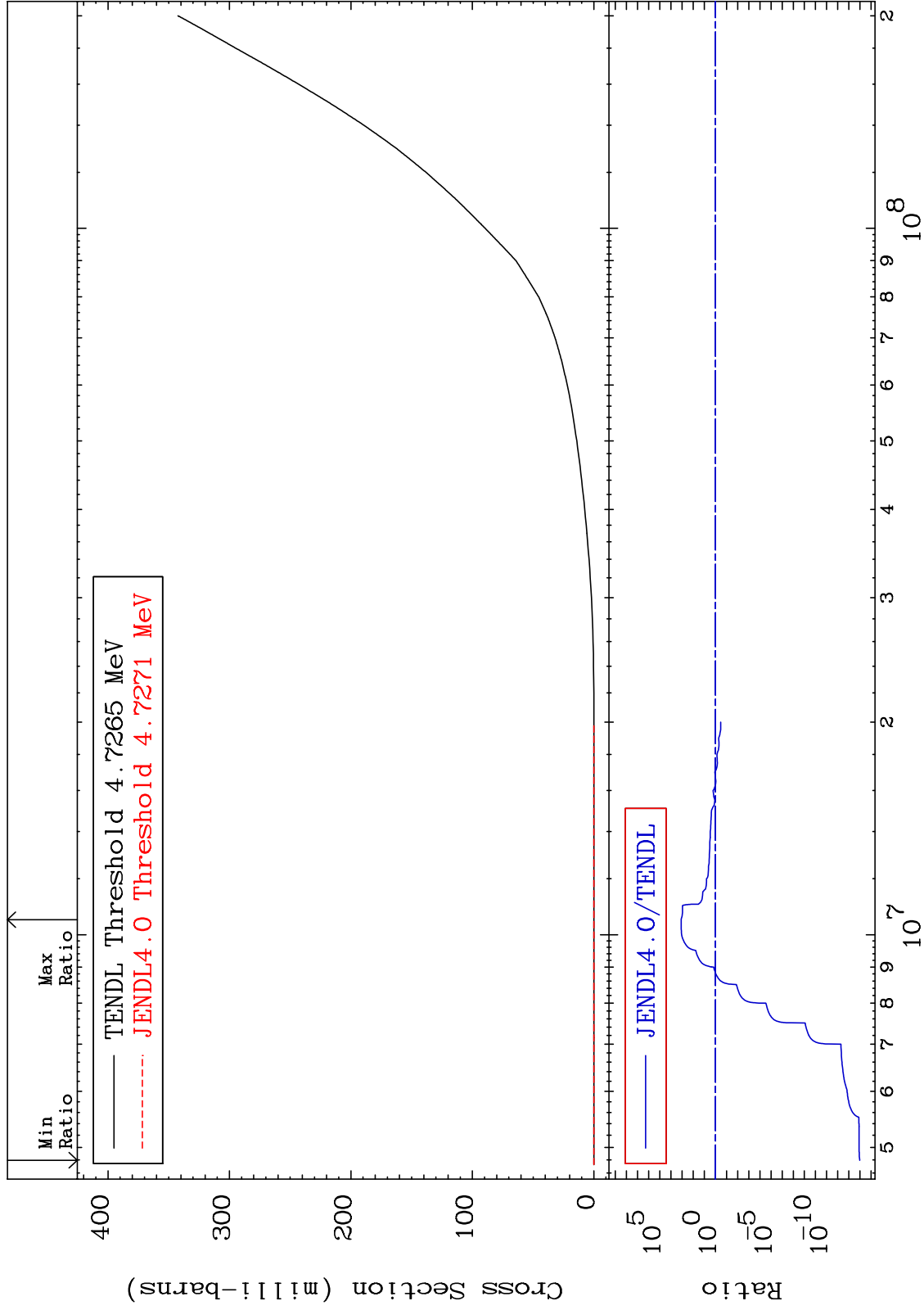




MAT 6234

He-3 Production
Cross Section

62-Sm-147
-100.0 To 9999. %



52

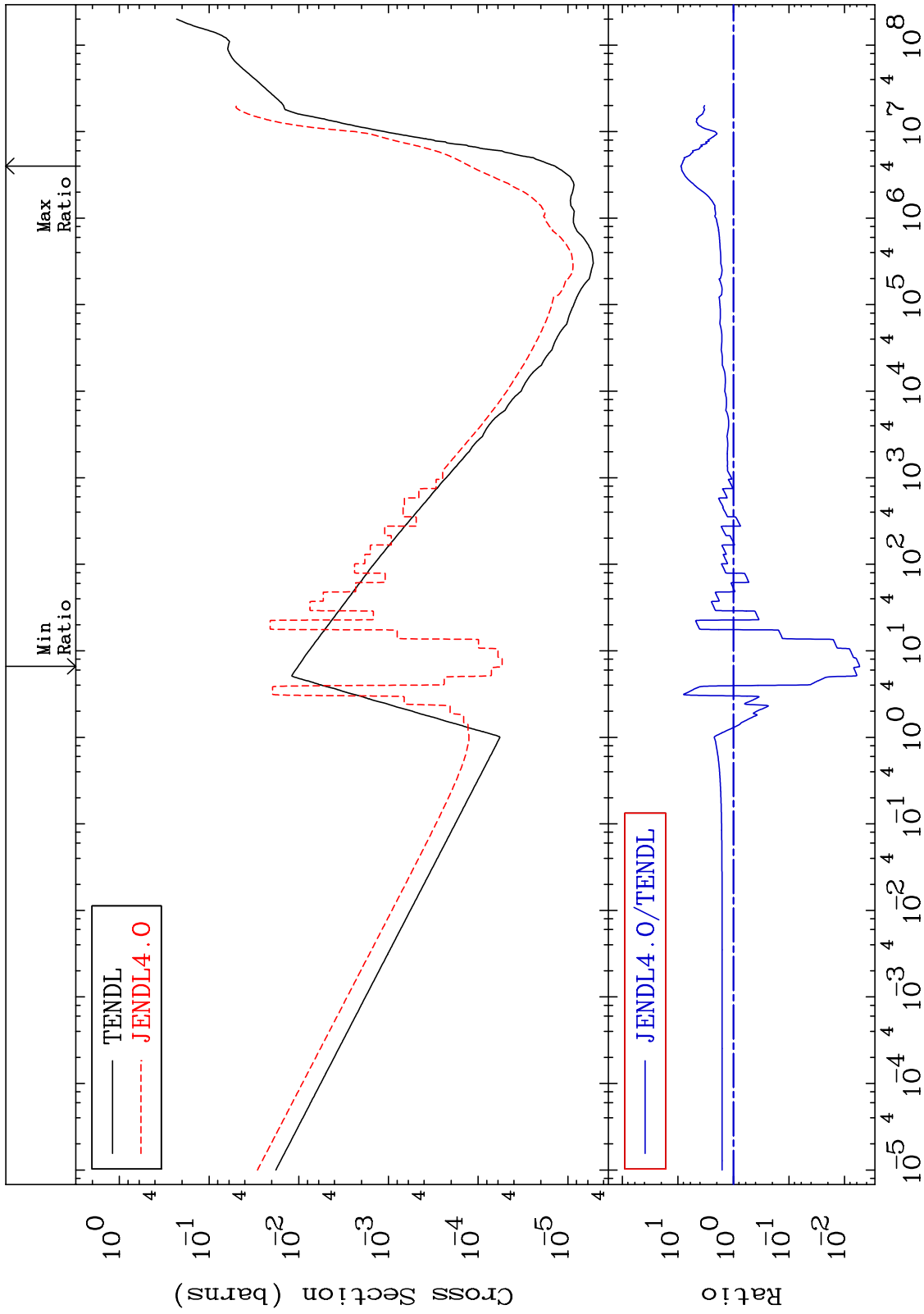
Incident Energy (eV)

62-Sm-147

MAT 6234

He-4 Production
Cross Section

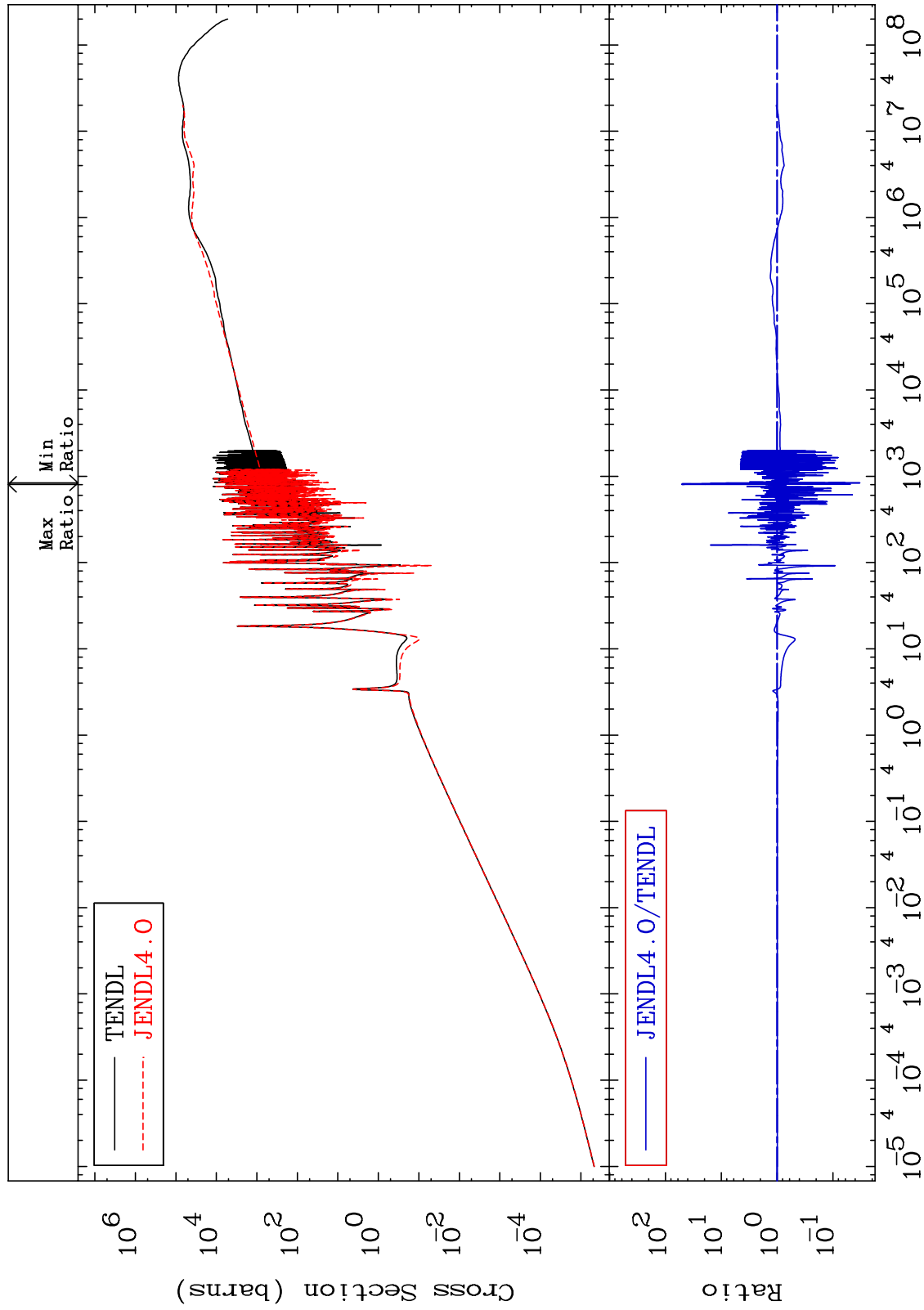
62-Sm-147
-99.47 To 788.2 %



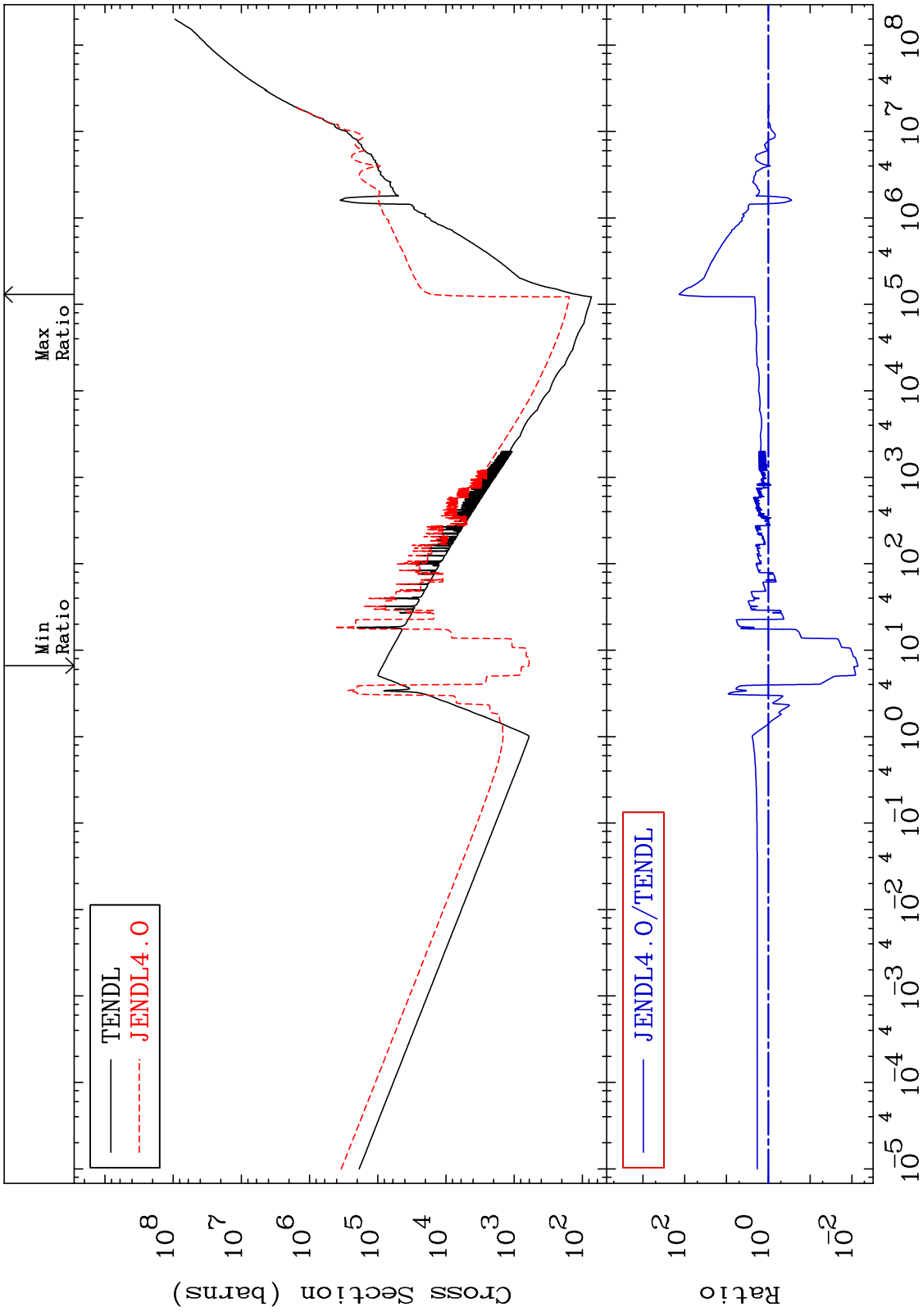
MAT 6234

Kerma elastic
Cross Section

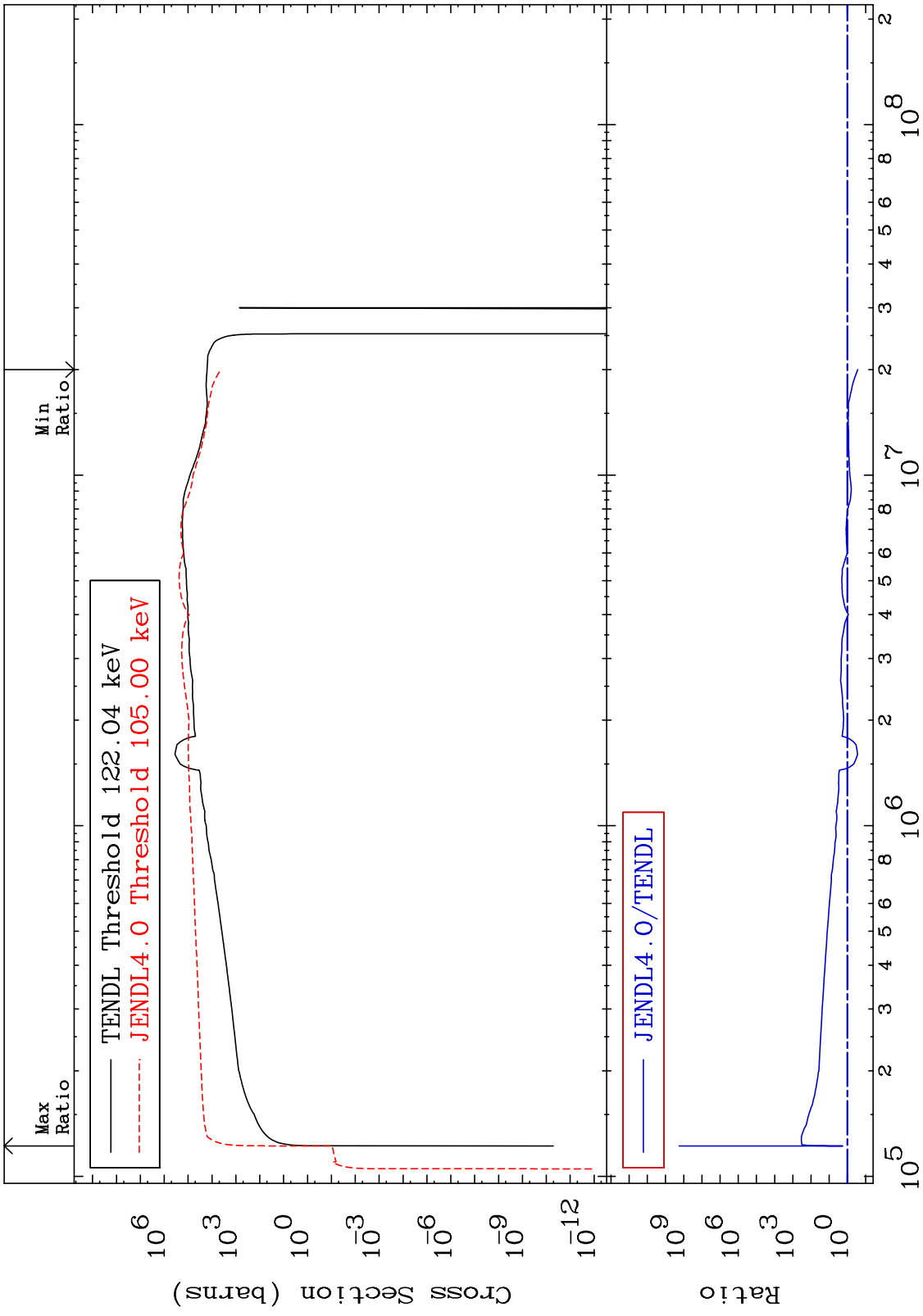
62-Sm-147
-96.68 To 5065. %



MAT 6234 Kerma non-elastic (all but mt.2) 62-Sm-147
 Cross Section -99.28 To 9999. %



MAT 6234 Kerma inelastic (mt51-91) 62-Sm-147
 Cross Section -73.41 To 9999. %

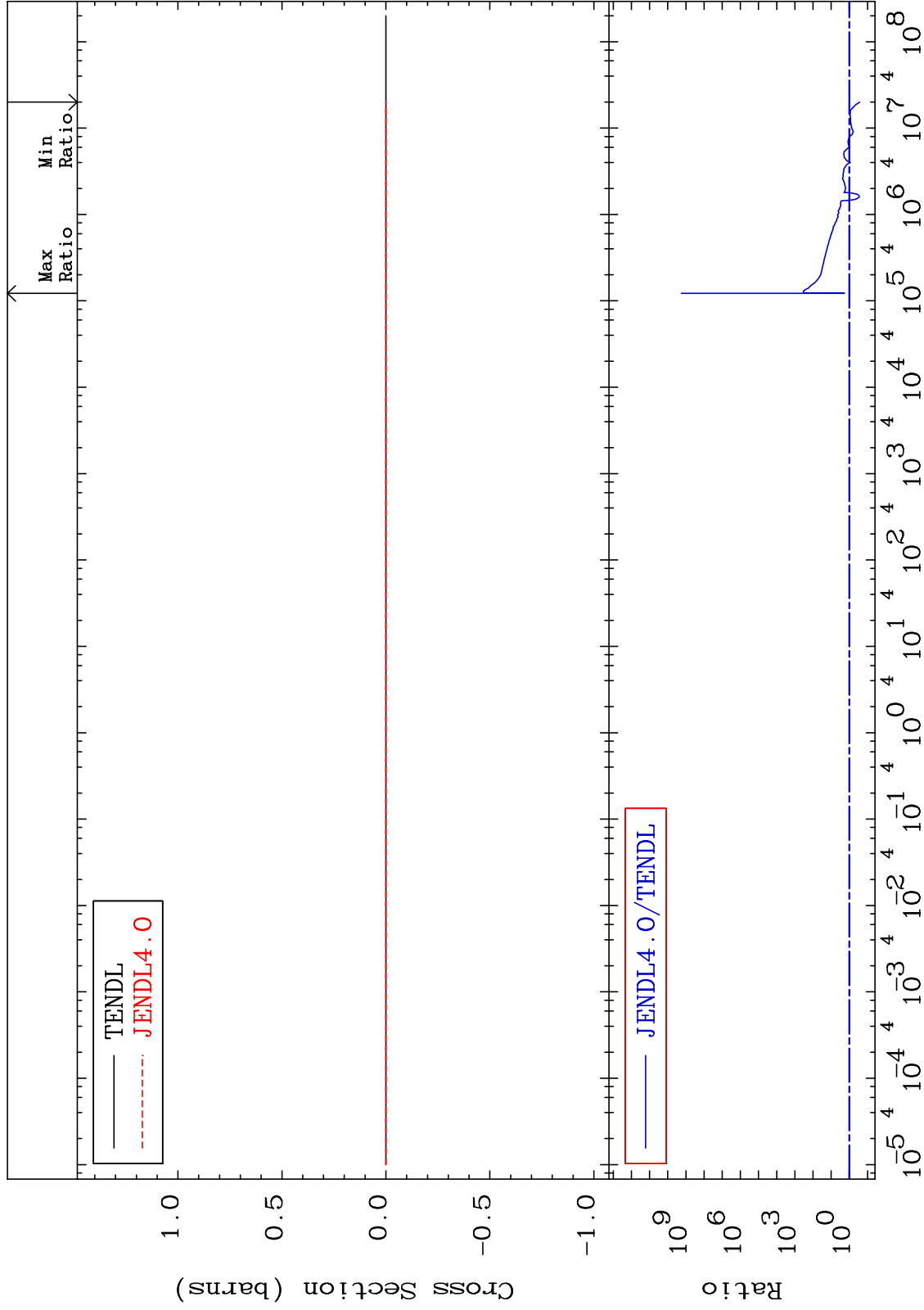


57 62-Sm-147

MAT 6234

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

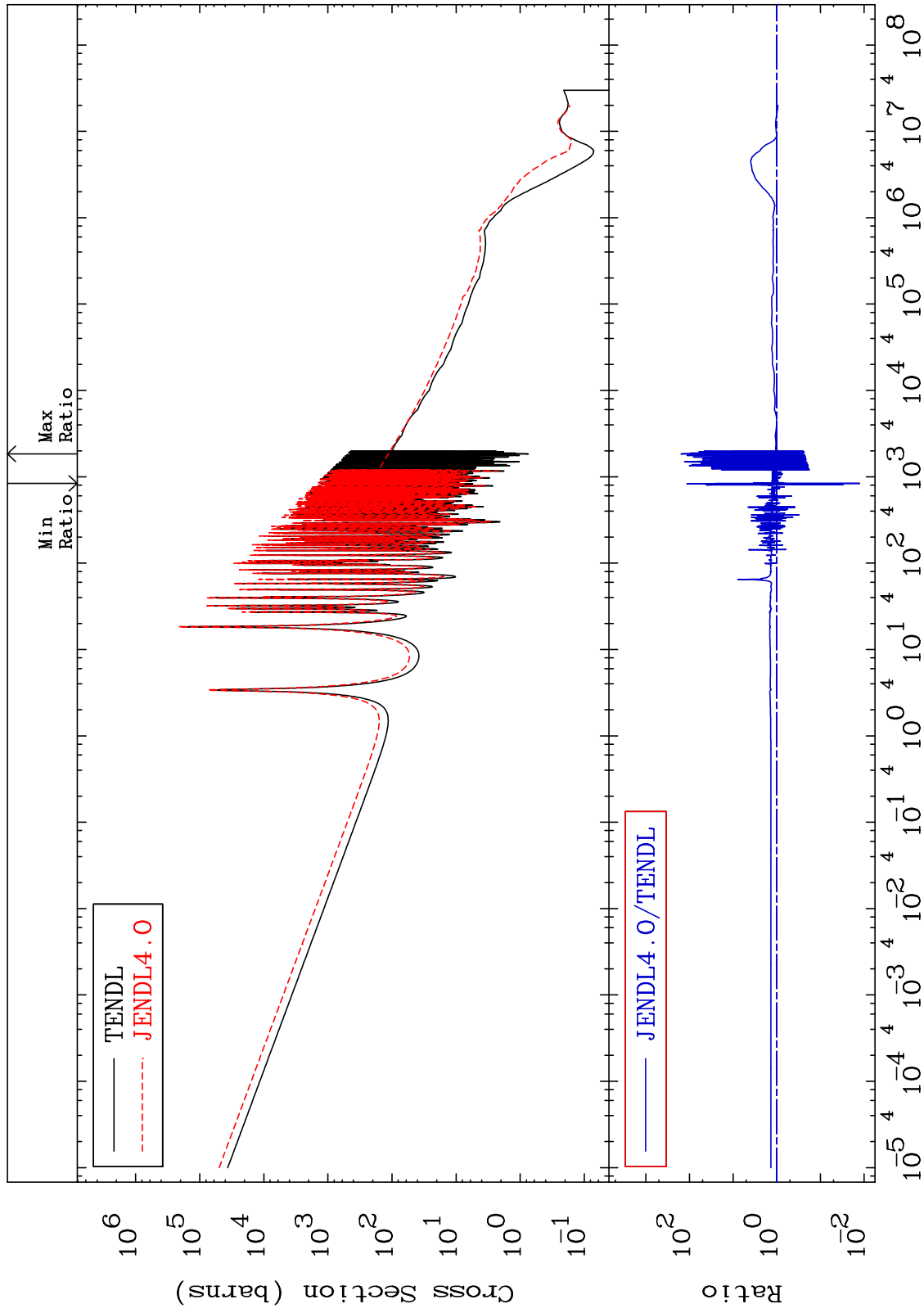
62-Sm-147
-73.41 To 9999. %



MAT 6234

Kerma capture (mt102)
Cross Section

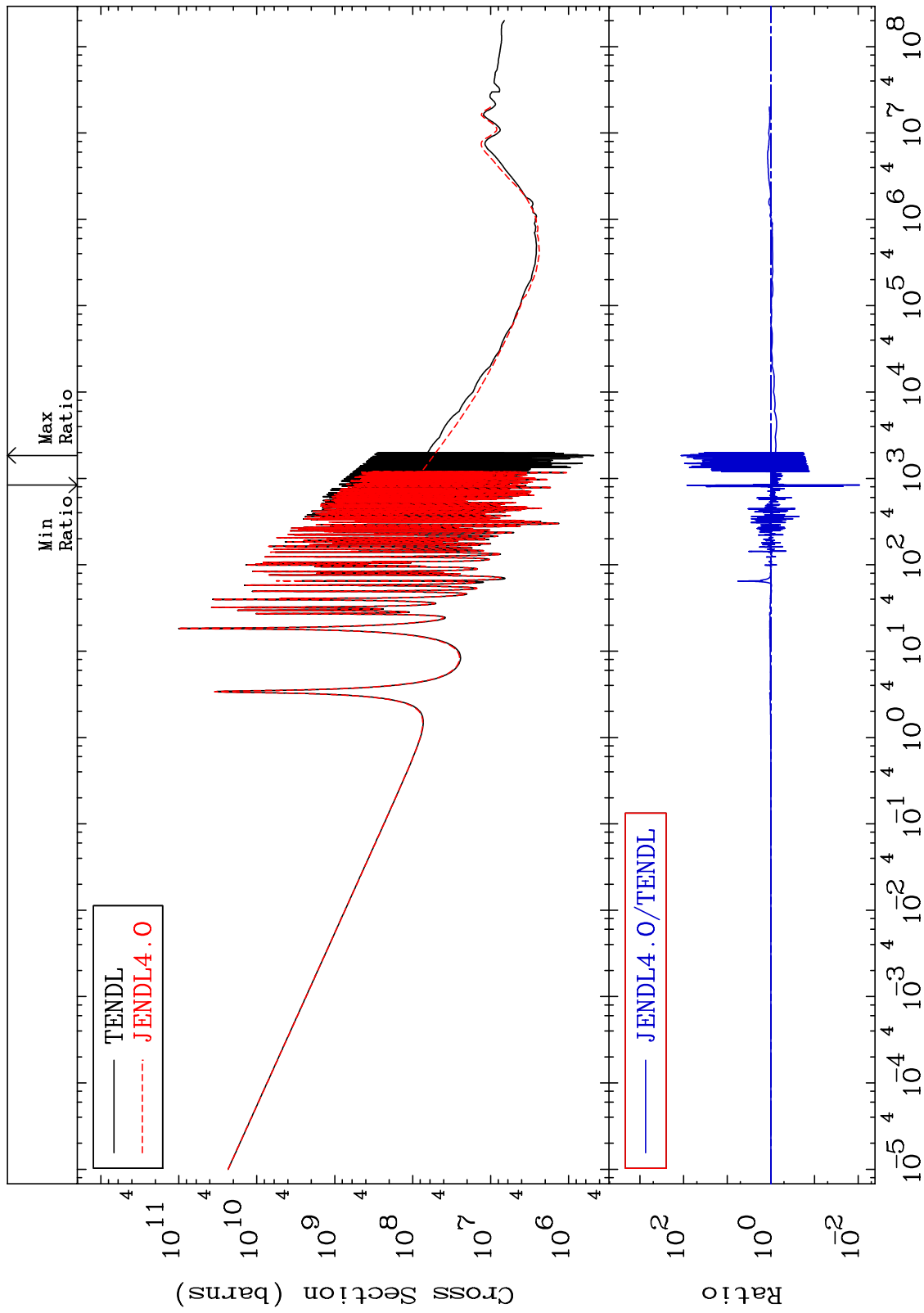
62-Sm-147
-98.75 To 9999. %



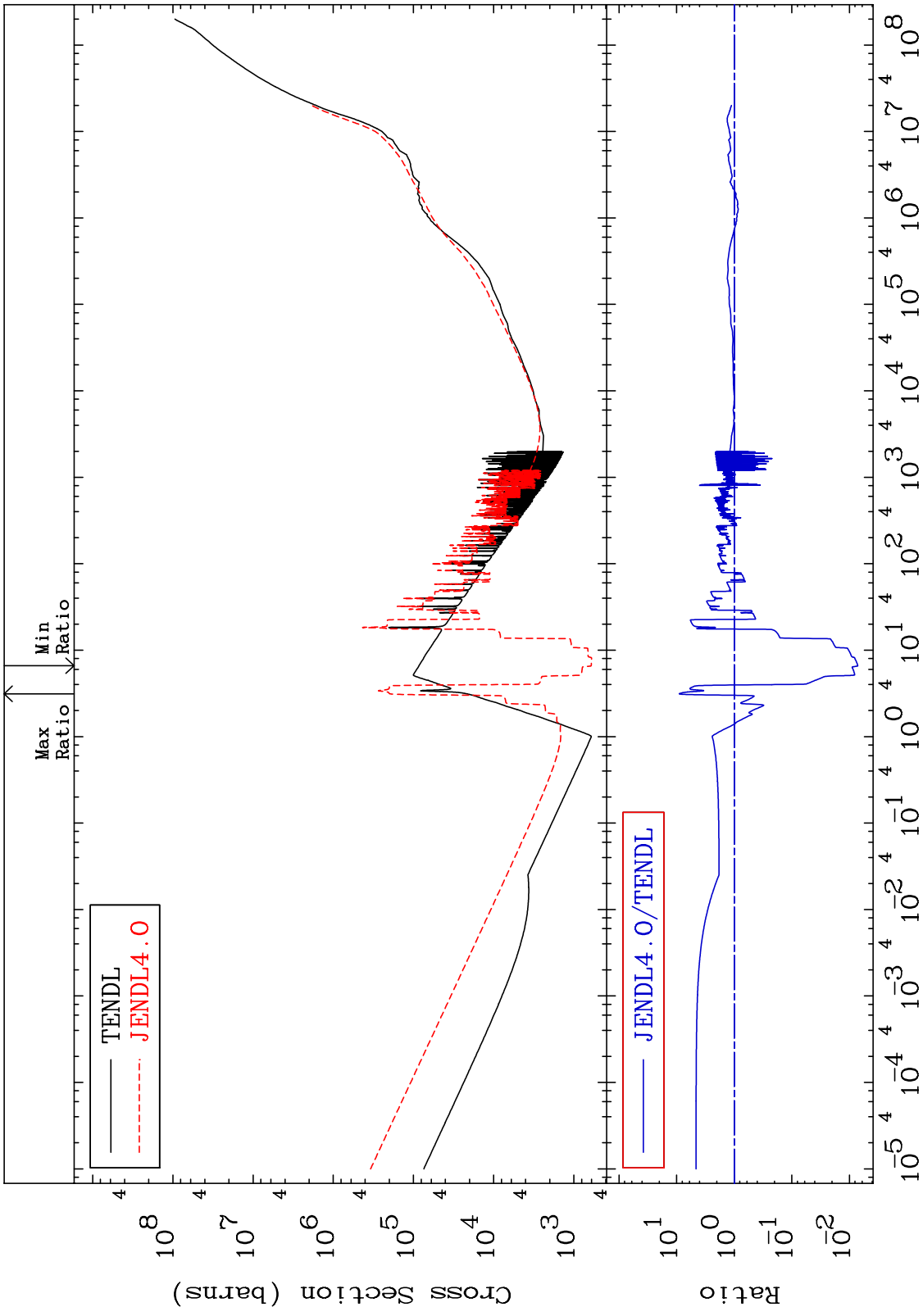
MAT 6234

Total photon (eV-barns)
Cross Section

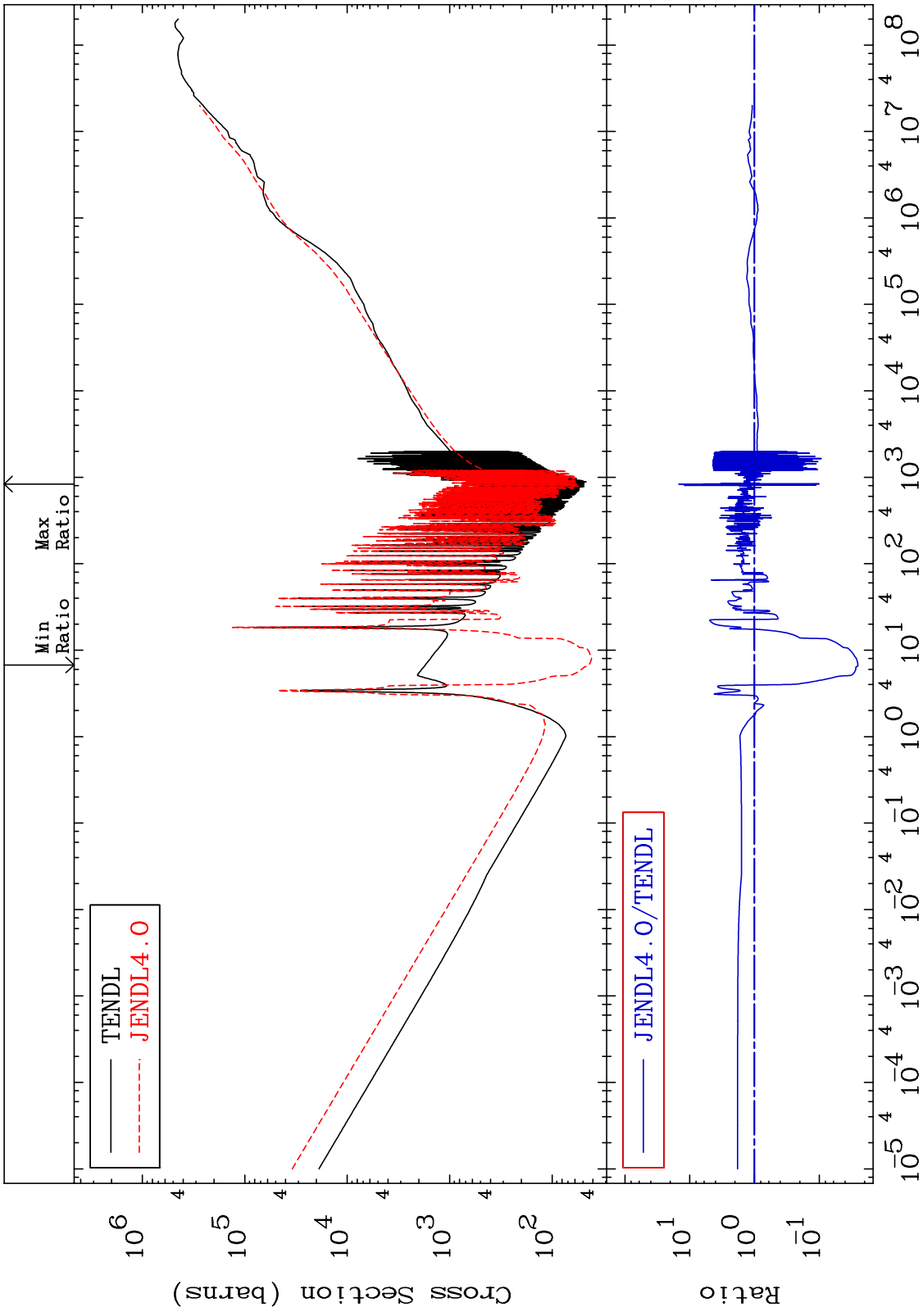
62-Sm-147
-99.08 To 9999. %



MAT 6234 Total kinematic kerma (high limit) 62-Sm-147
 Cross Section -99.29 To 807.9 %

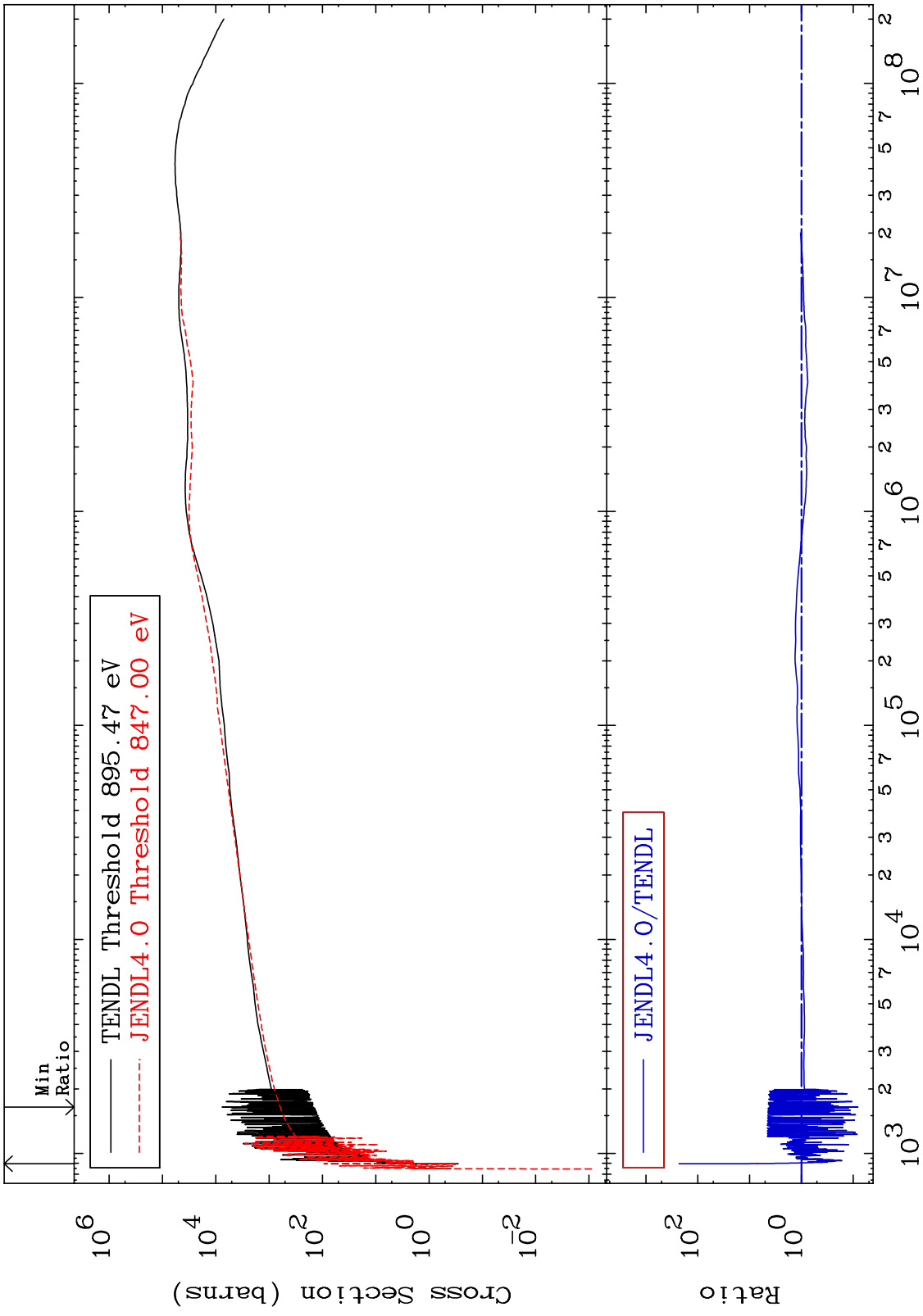


MAT 6234 Dpa total (eV-barns) 62-Sm-147
-97.46 To 1360. %
Cross Section

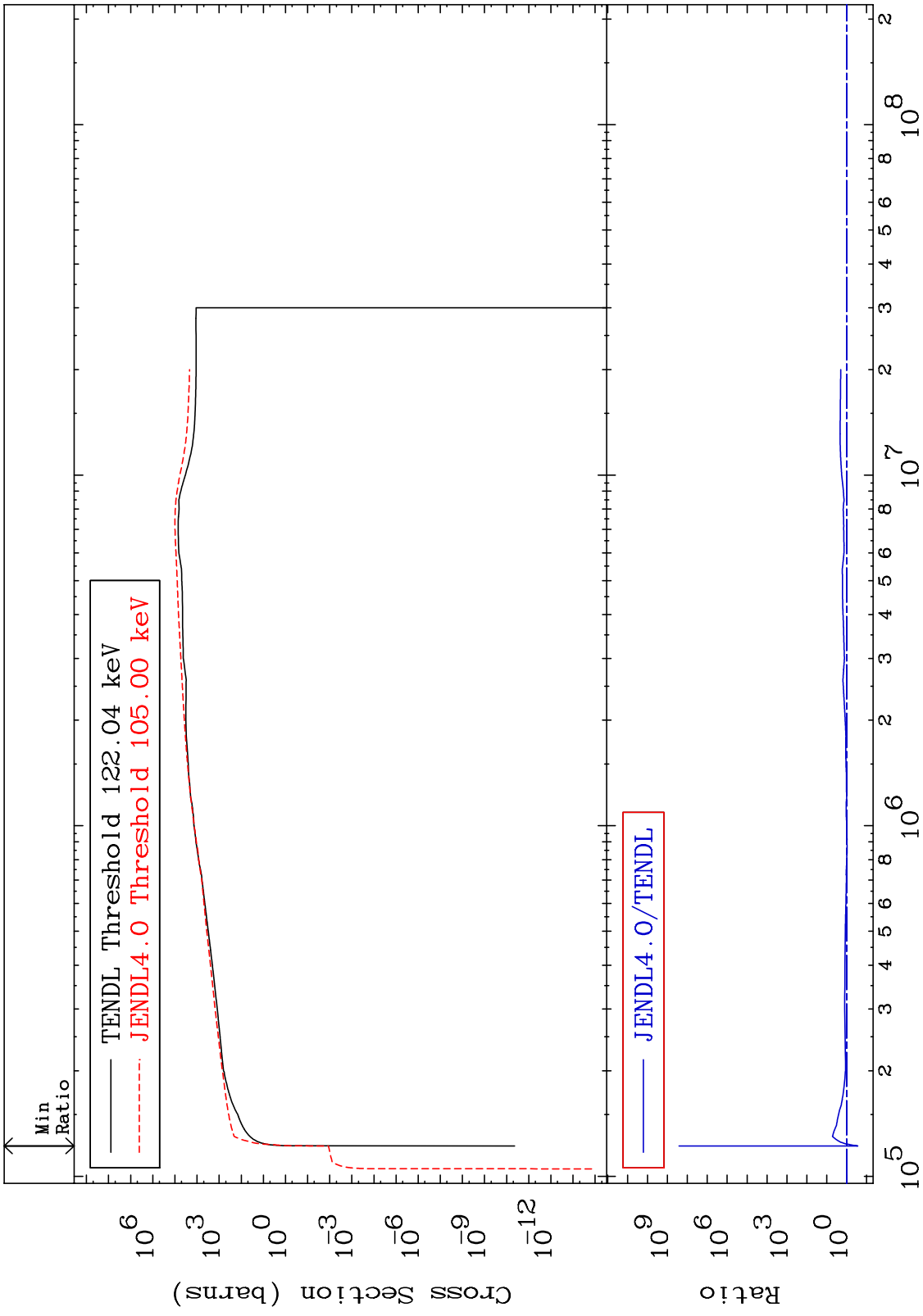


62 Incident Energy (eV) 62-Sm-147

MAT 6234 Dpa elastic (mt2) 62-Sm-147
Cross Section -91.84 To 9999. %



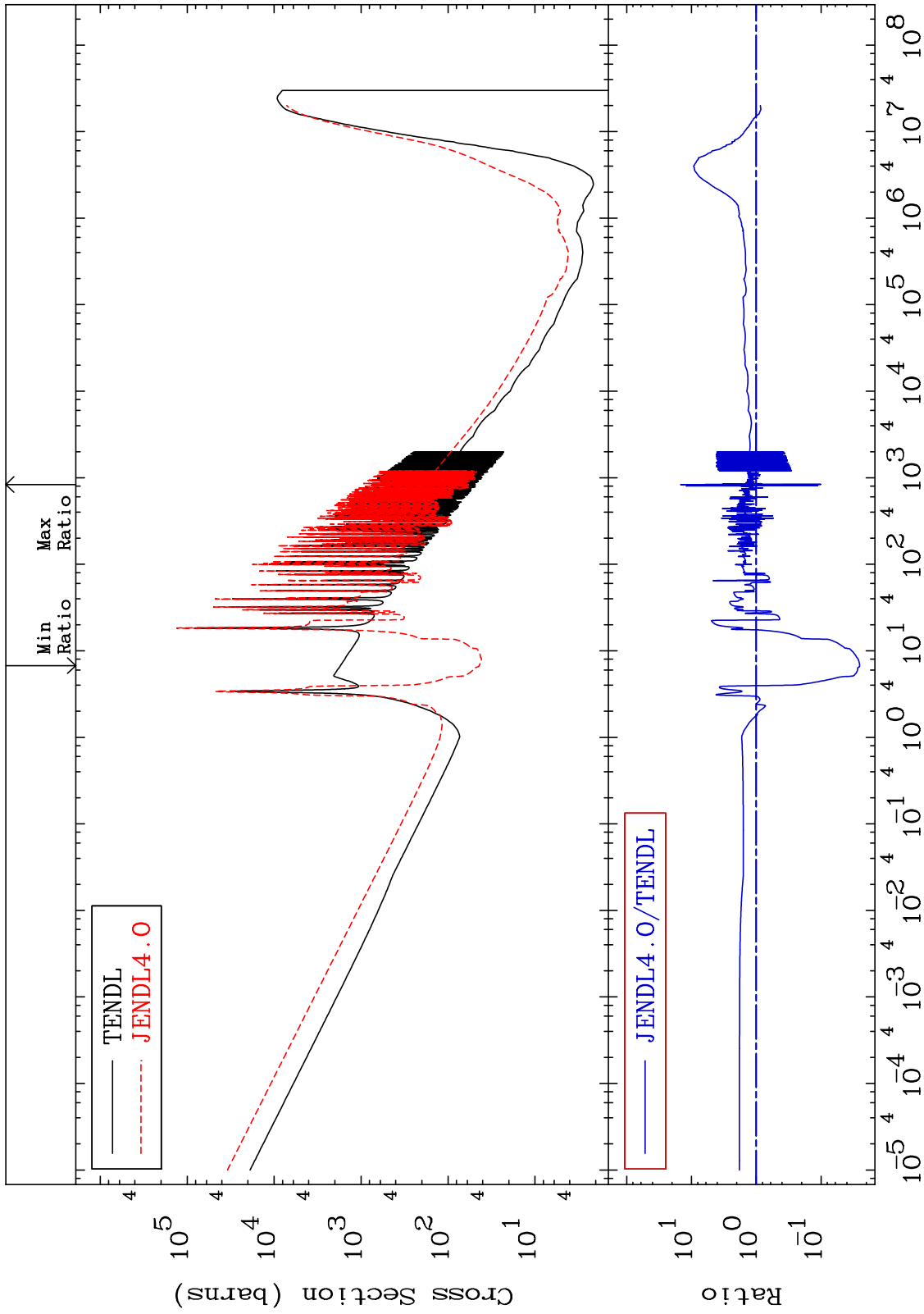
MAT 6234 Dpa inelastic (mt51-91) 62-Sm-147
 Cross Section -72.67 To 9999. %



MAT 6234

Dpa disappearance (mt102 -120)
Cross Section

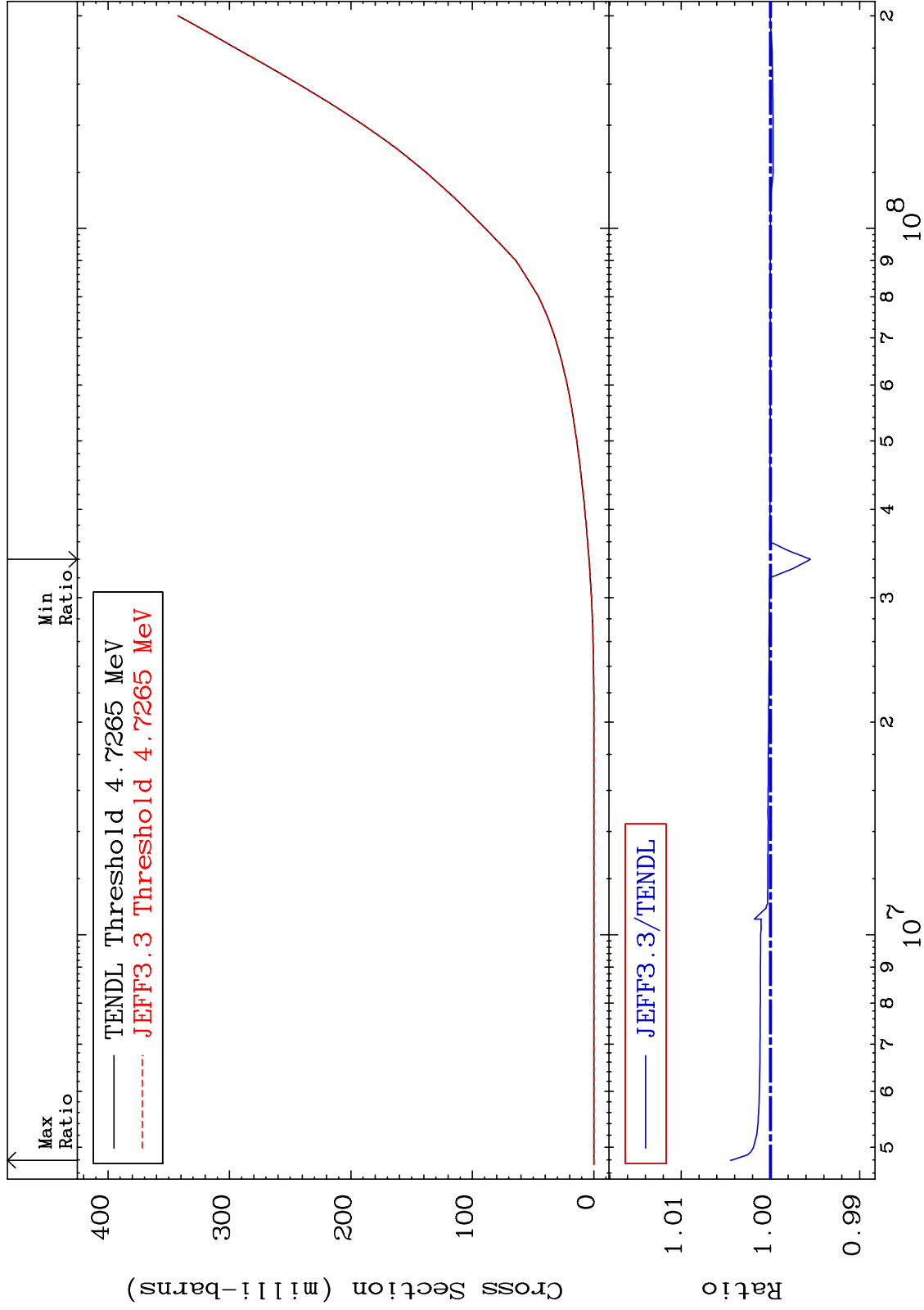
62-Sm-147
-97.46 To 1360. %



MAT 6234

He-3 Production
Cross Section

62-Sm-147
-0.449 To 0.447 %



66

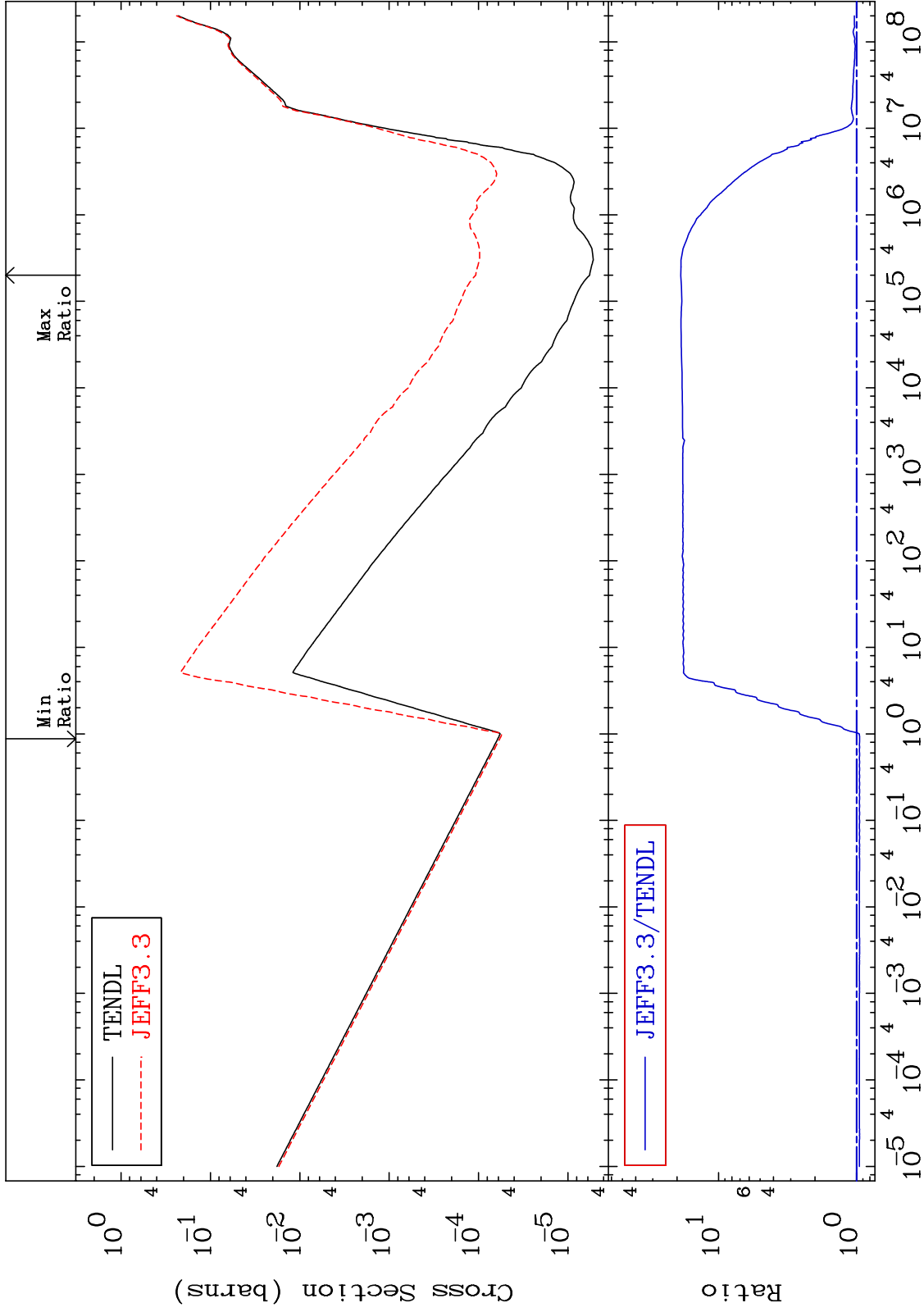
Incident Energy (eV)

62-Sm-147

MAT 6234

He-4 Production
Cross Section

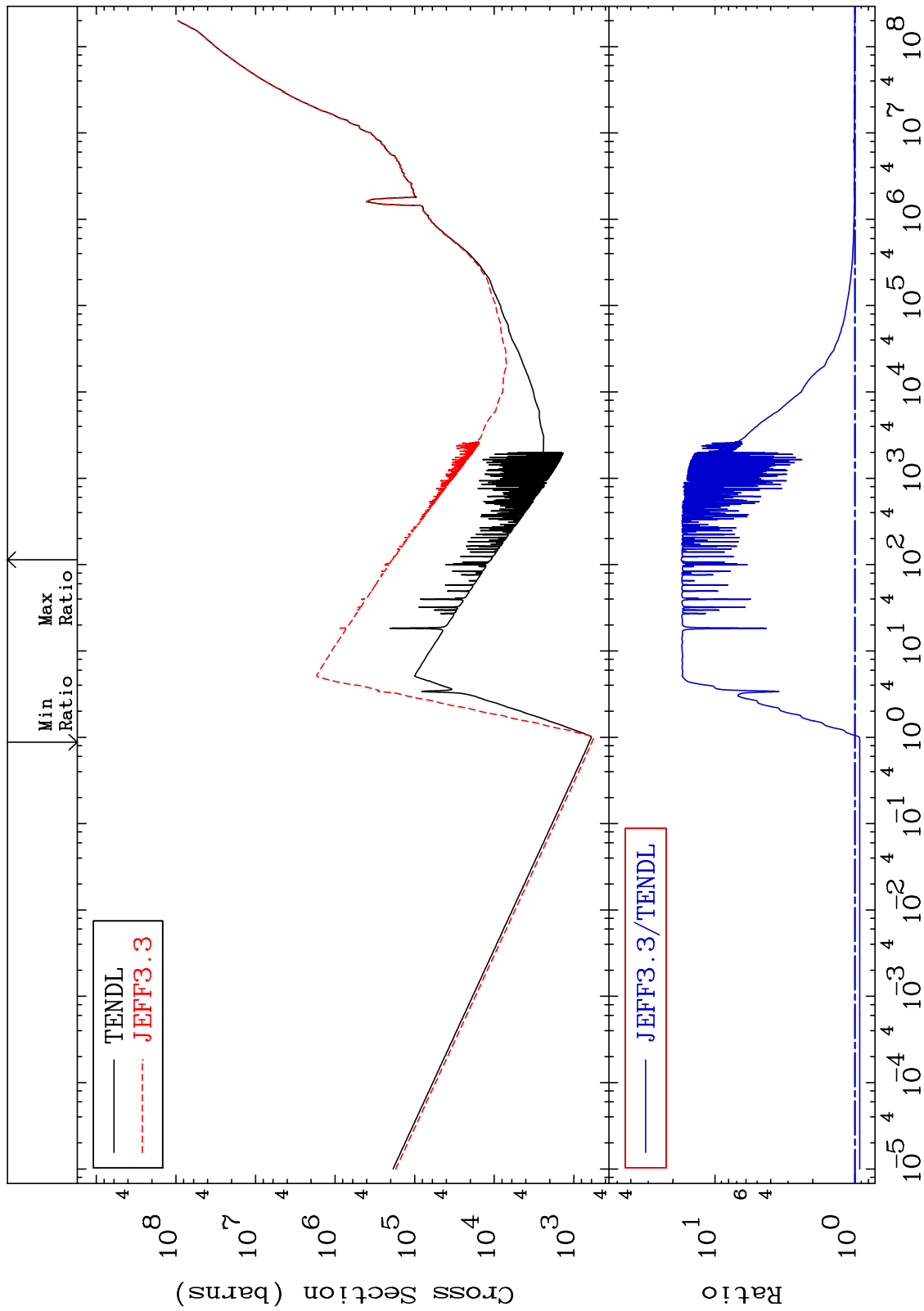
62-Sm-147
-5.065 To 1781. %



MAT 6234

Kerma total (eV-barns)
Cross Section

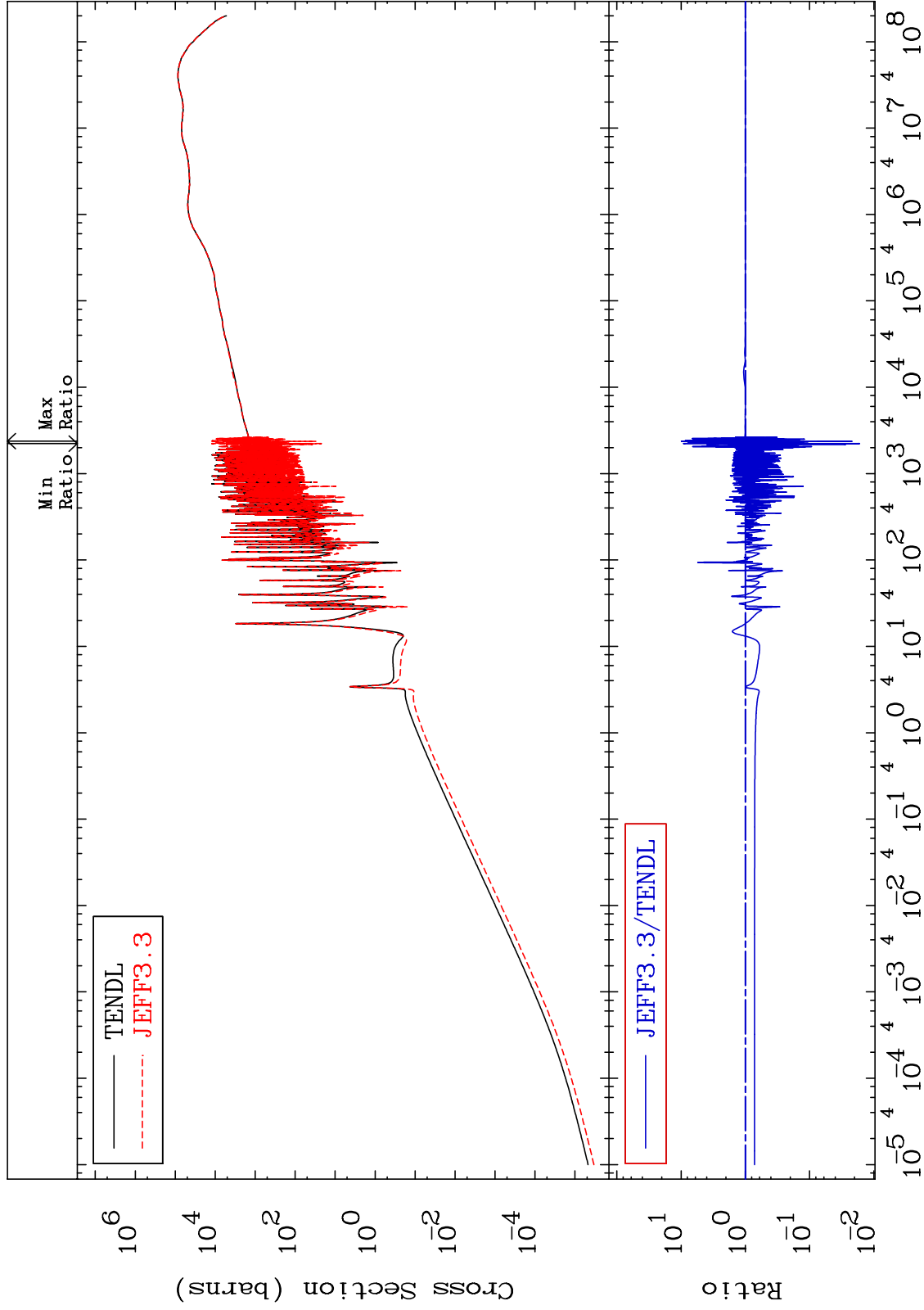
62-Sm-147
-7.746 To 1643. %



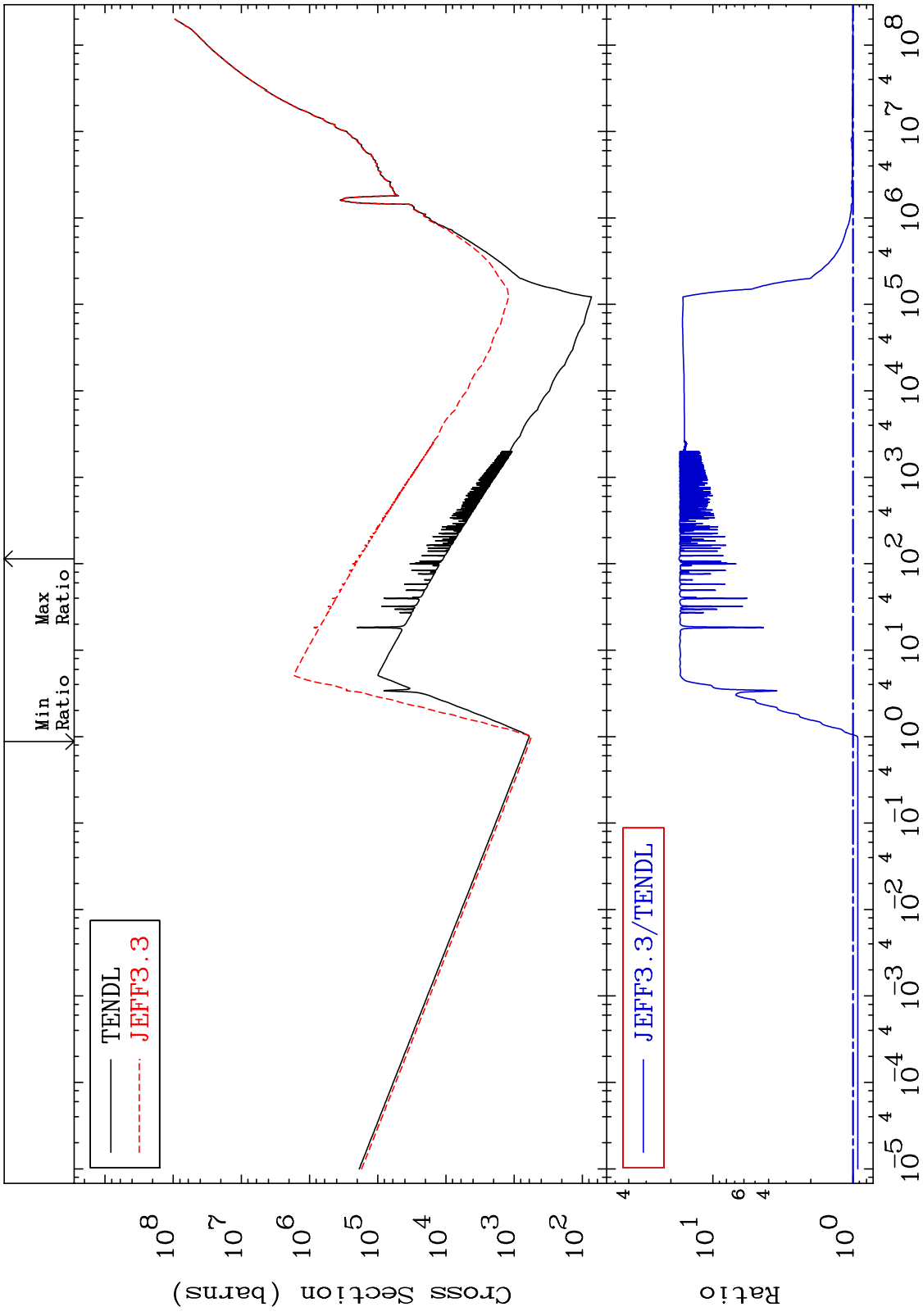
MAT 6234

Kerma elastic
Cross Section

62-Sm-147
-98.34 To 894.7 %

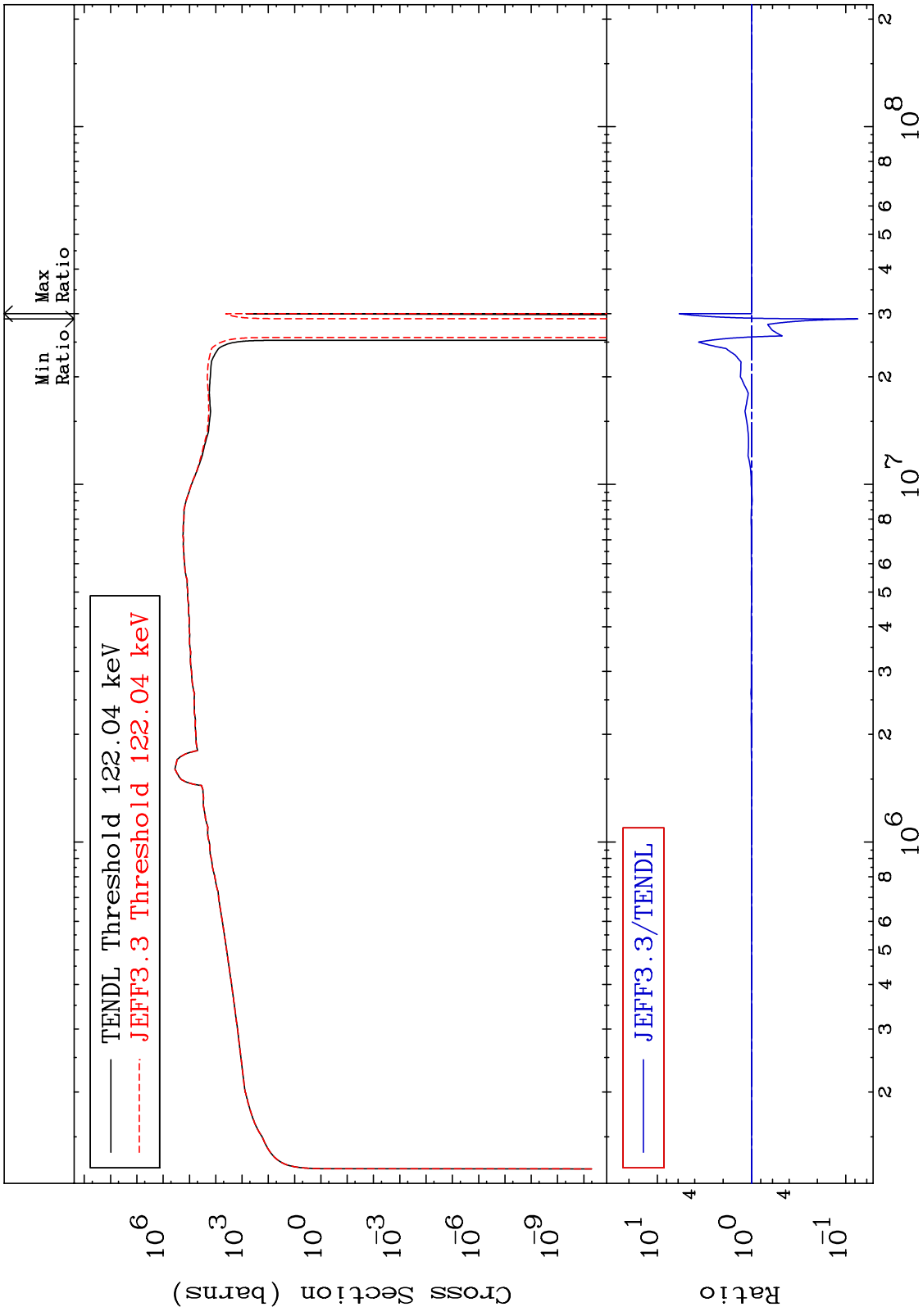


MAT 6234 Kerma non-elastic (all but mt2) 62-Sm-147
 -7.743 To 1646. %
 Cross Section



70 Incident Energy (eV) 62-Sm-147

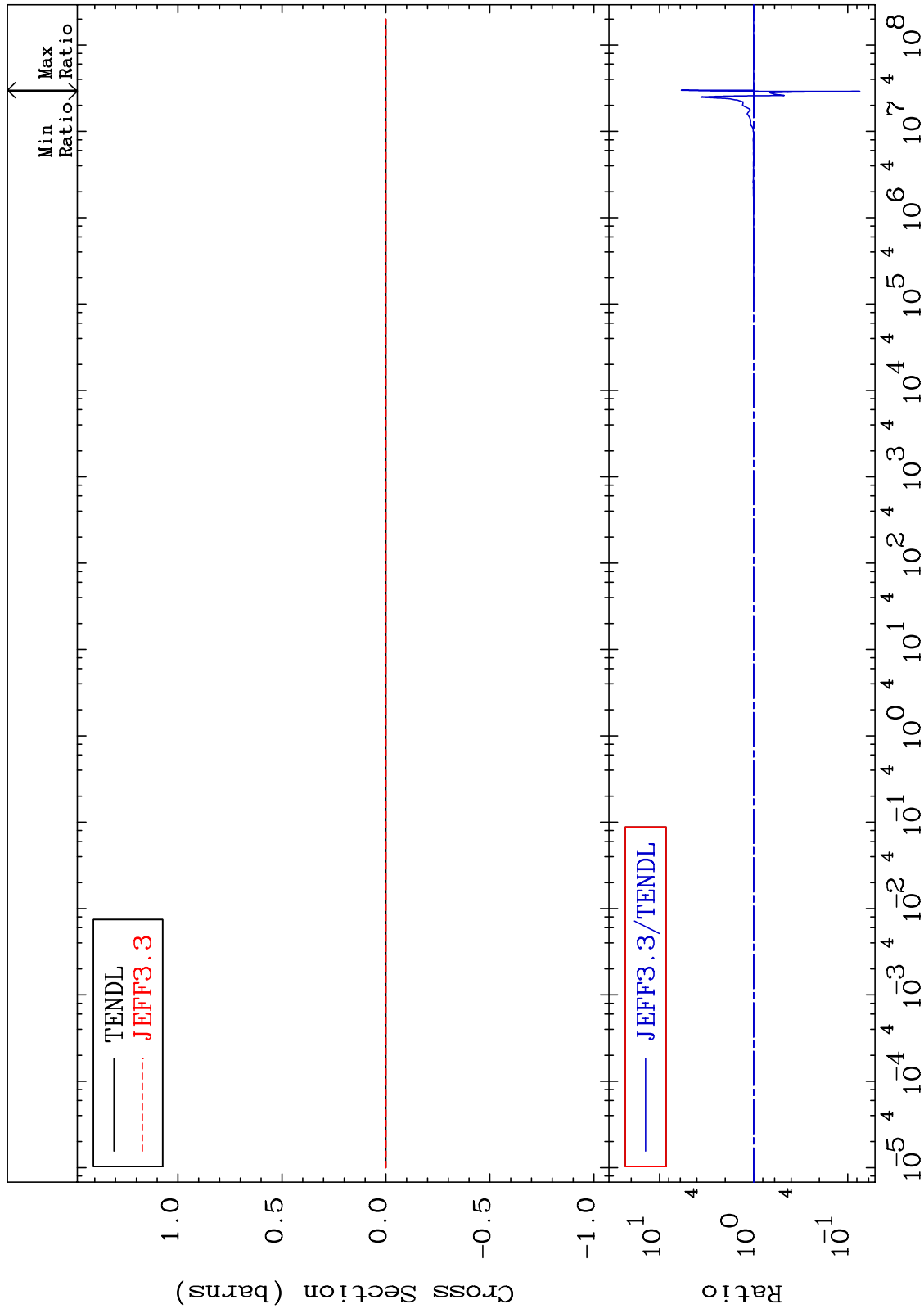
MAT 6234 Kerma inelastic (mt51-91) 62-Sm-147
 Cross Section -92.54 To 487.8 %



MAT 6234

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

62-Sm-147
-92.54 To 487.8 %



72

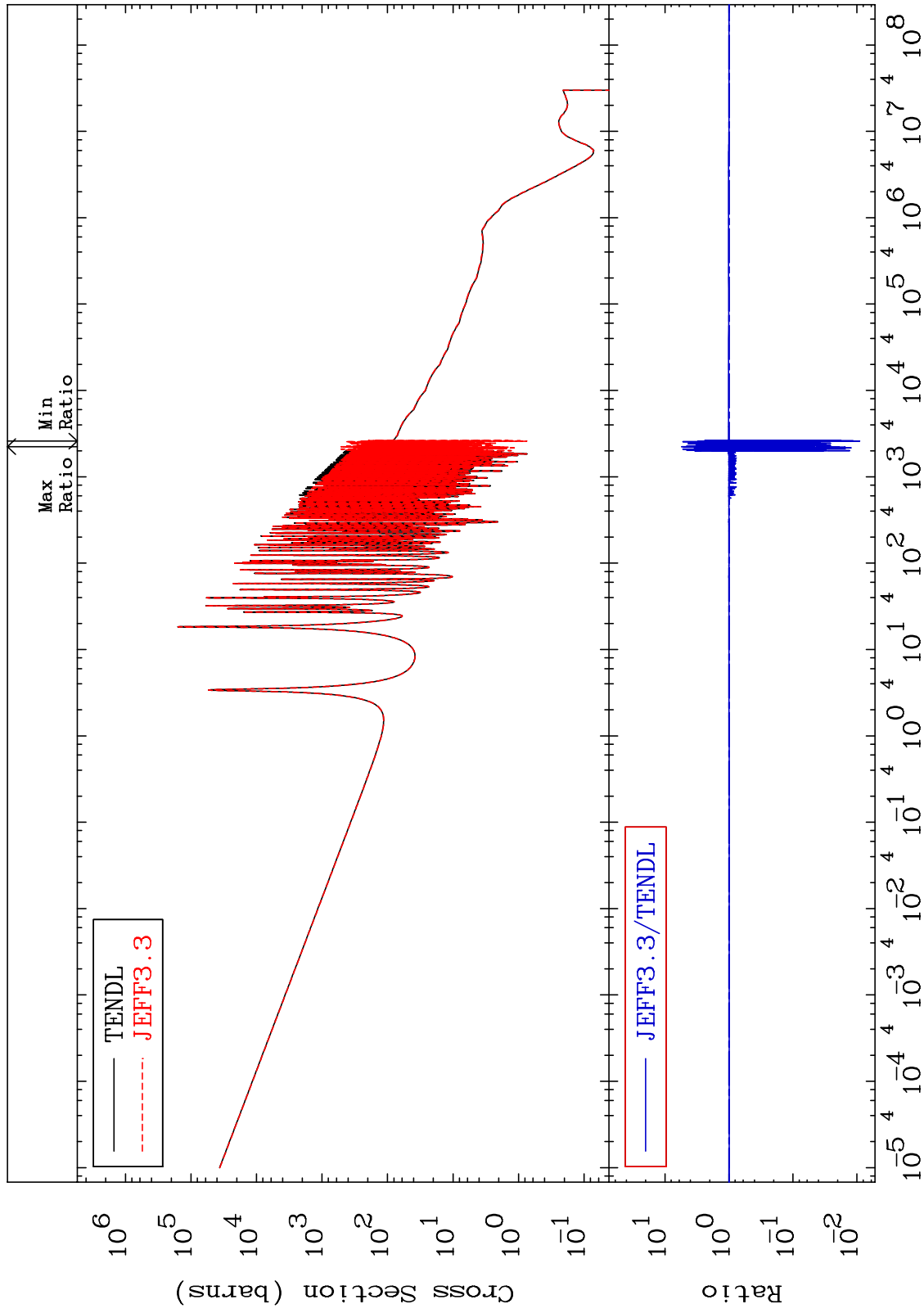
Incident Energy (eV)

62-Sm-147

MAT 6234

Kerma capture (mt102)
Cross Section

62-Sm-147
-99.10 To 456.9 %



73

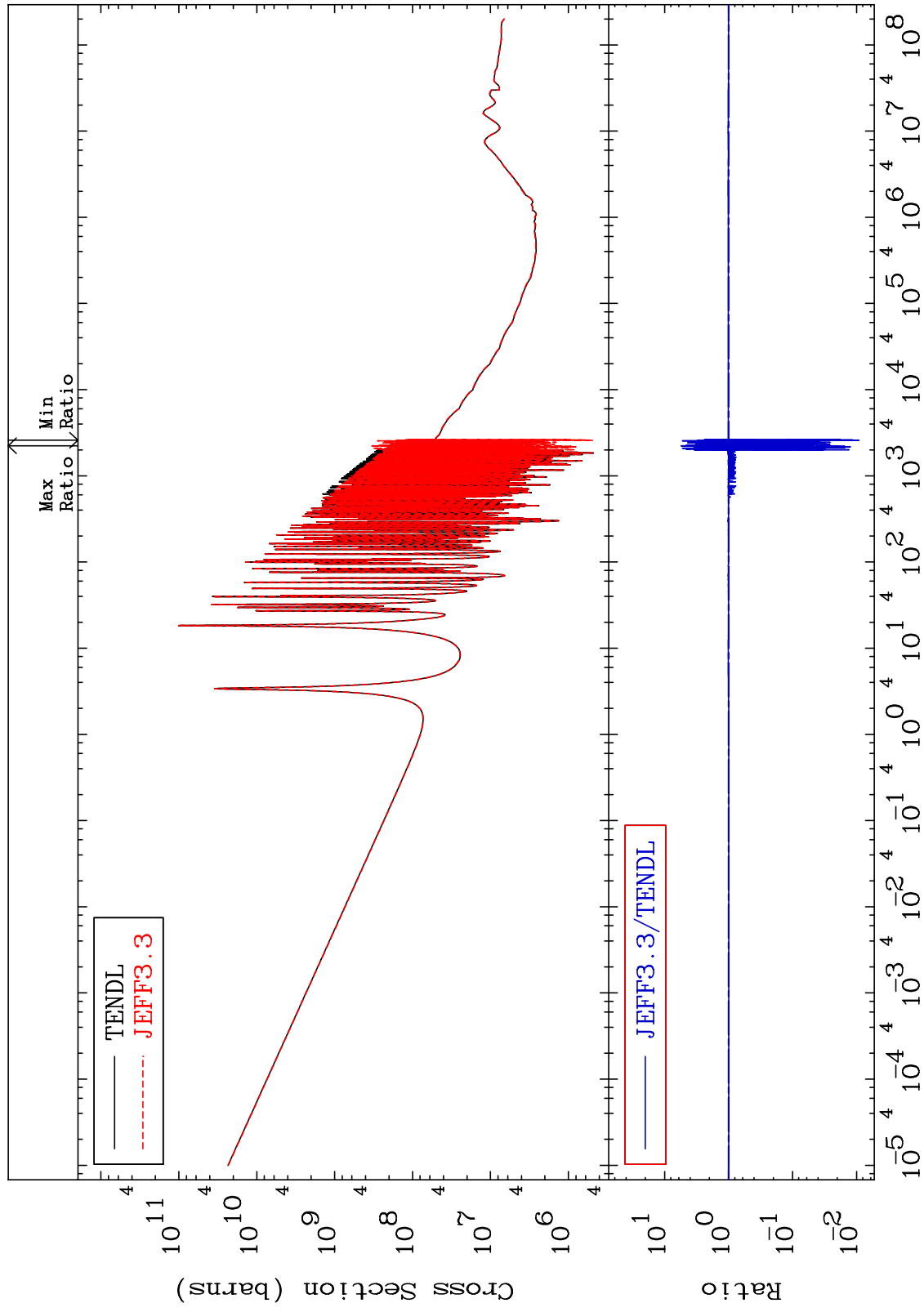
Incident Energy (eV)

62-Sm-147

MAT 6234

Total photon (eV-barns)
Cross Section

62-Sm-147
-99.09 To 456.9 %

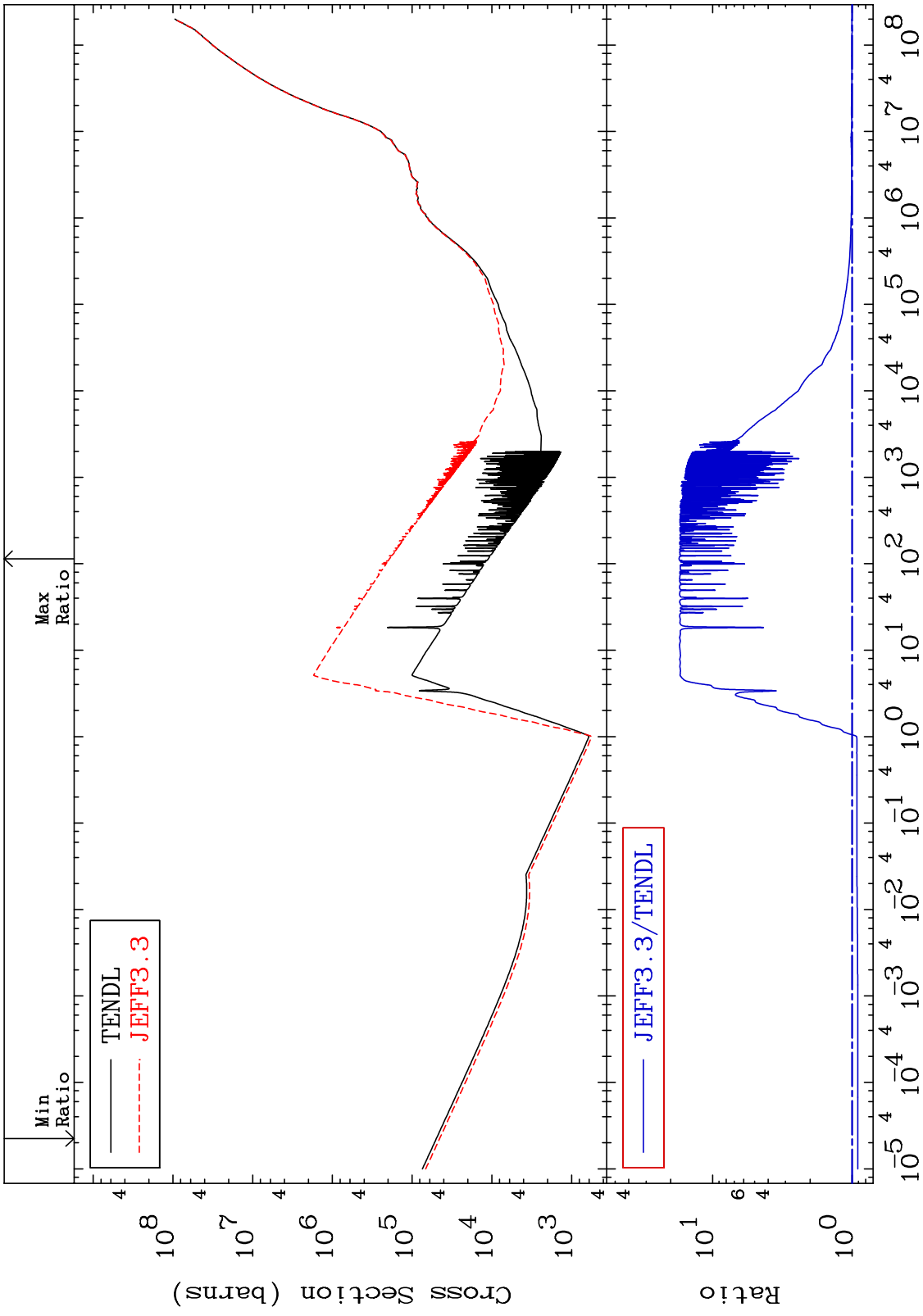


74

Incident Energy (eV)

62-Sm-147

MAT 6234 Total kinematic kerma (high limit) 62-Sm-147
Cross Section -9.110 To 1642. %

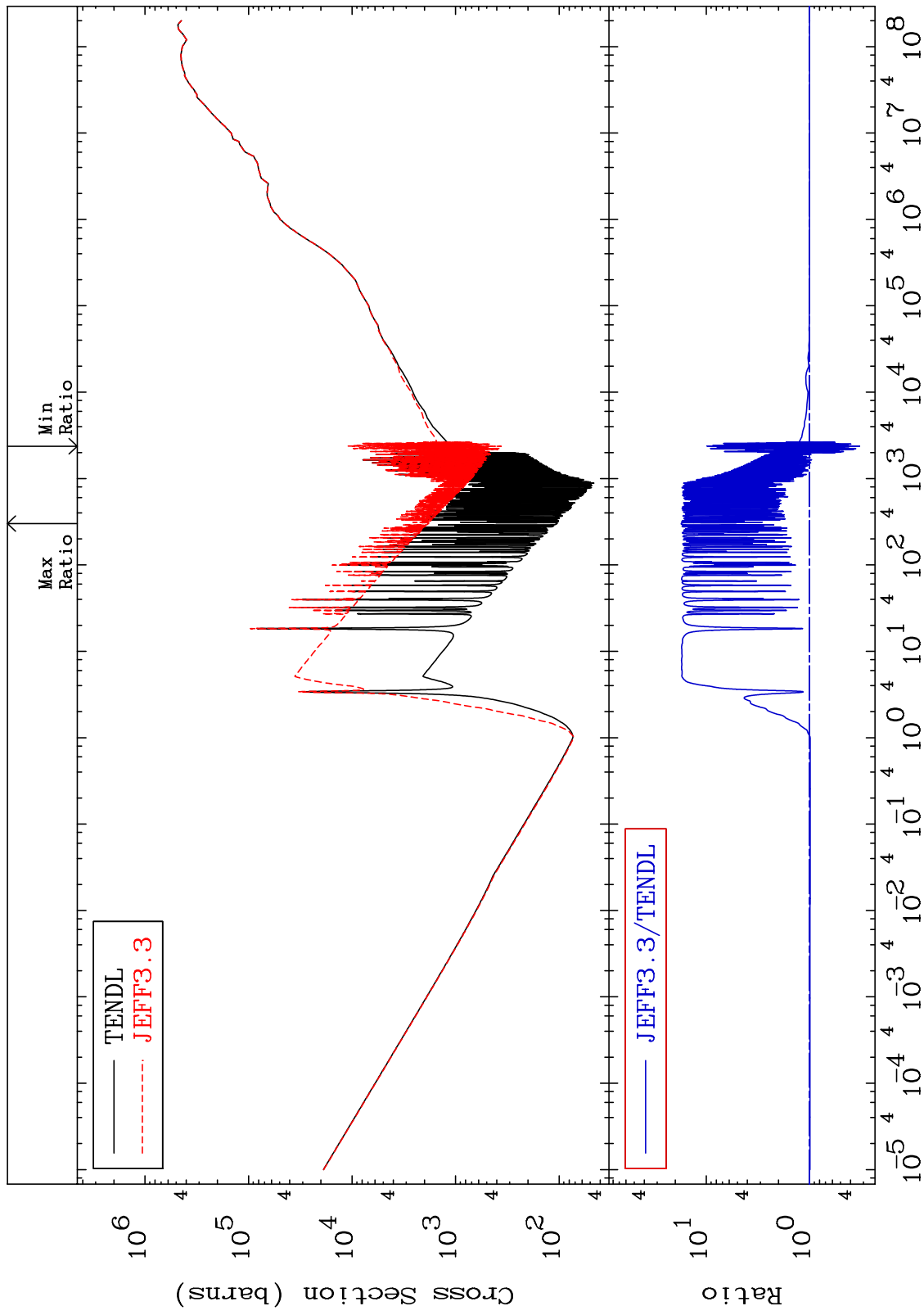


75 Incident Energy (eV) 62-Sm-147

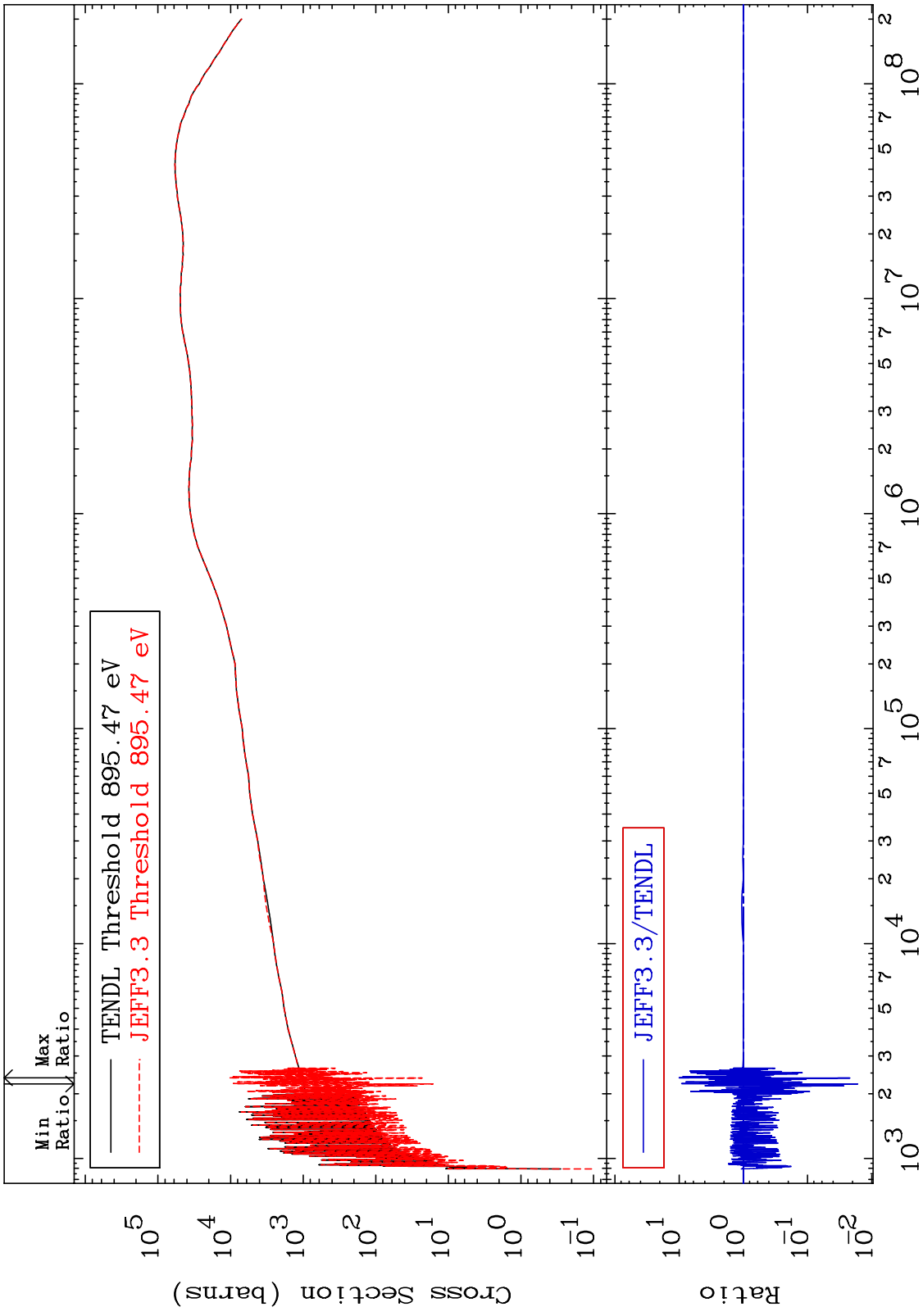
MAT 6234

Dpa total (eV-barns)
Cross Section

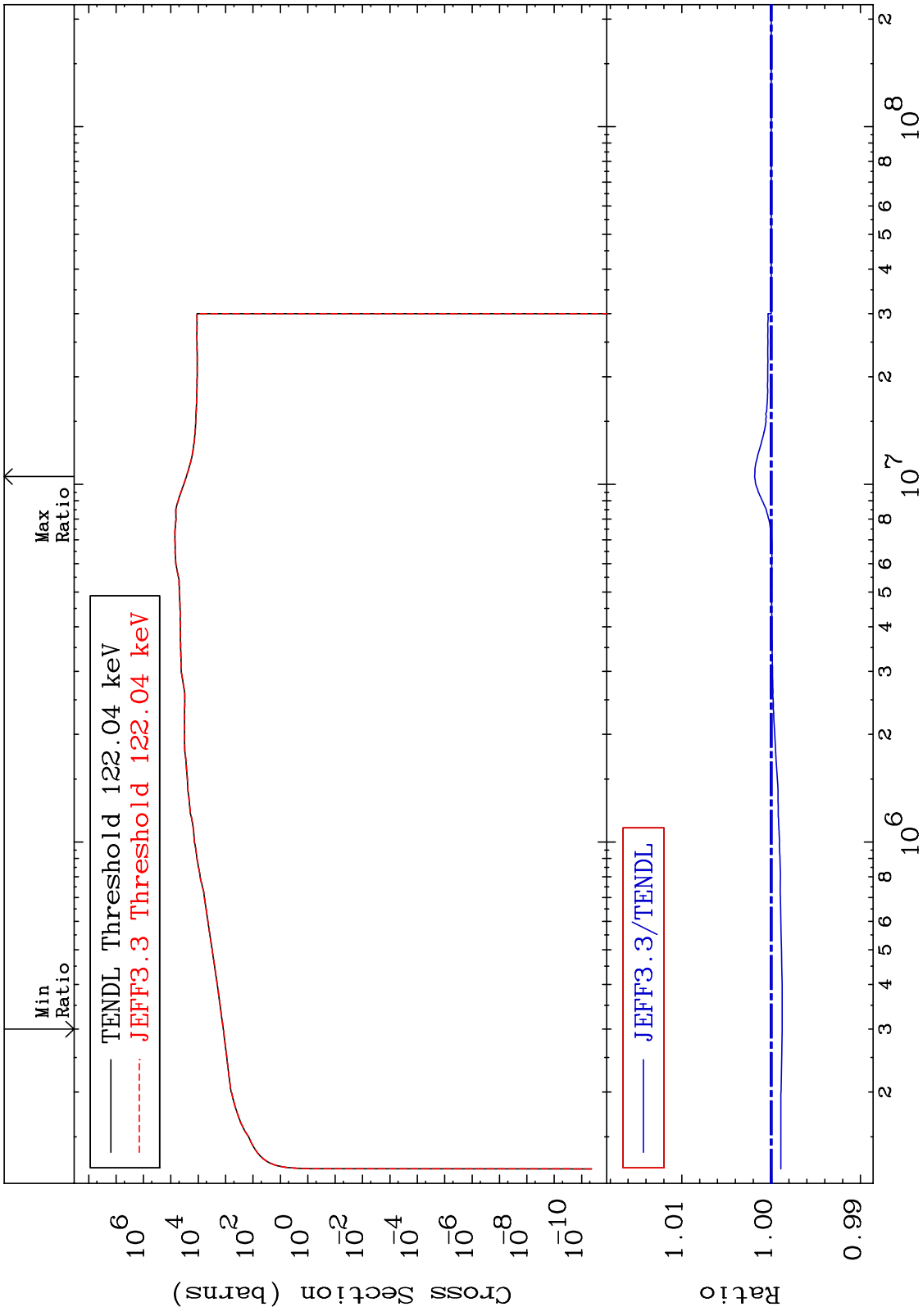
62-Sm-147
-67.39 To 1650. %



MAT 6234 Dpa elastic (mt2) 62-Sm-147
Cross Section -98.35 To 902.6 %



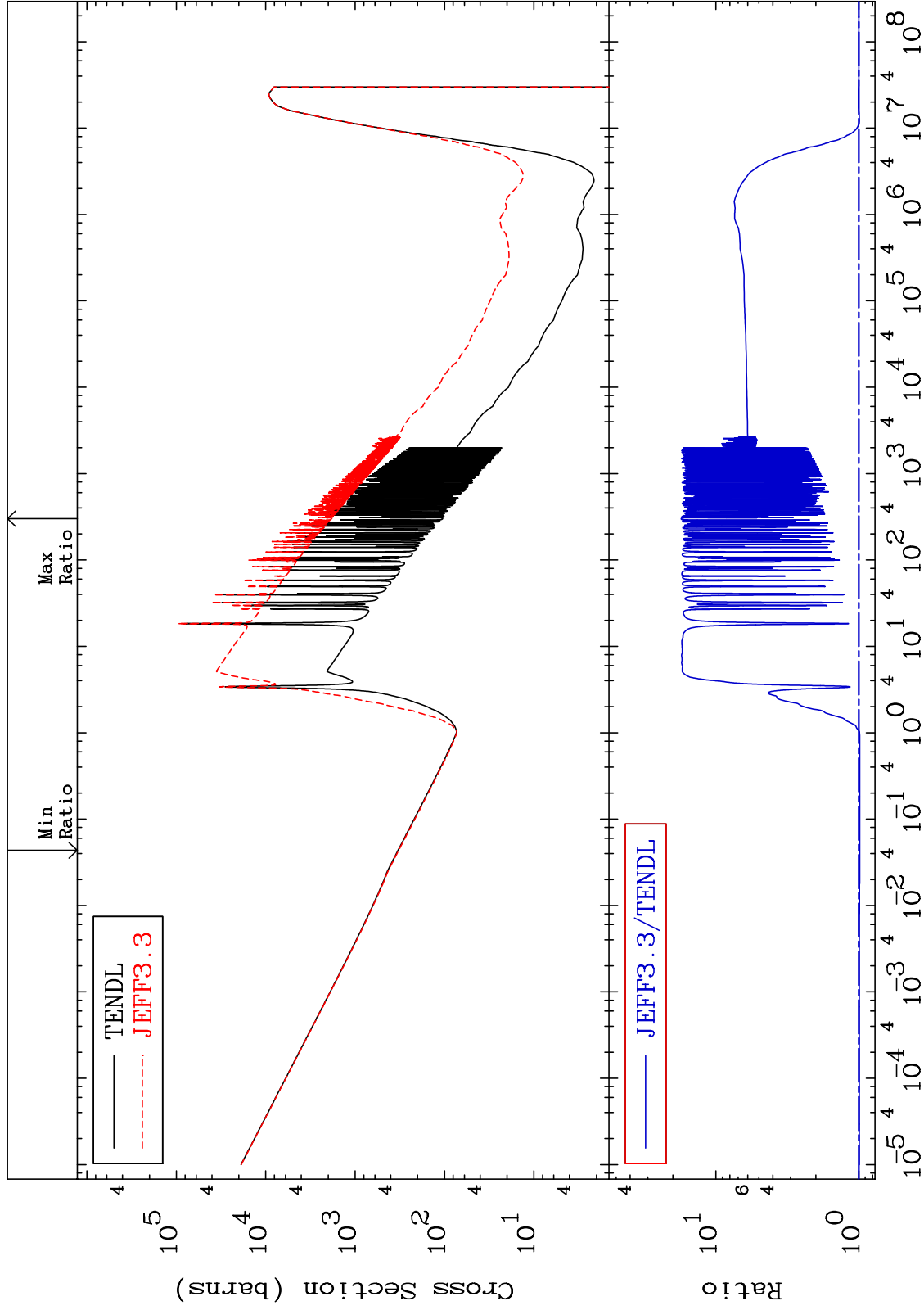
MAT 6234 Dpa inelastic (mt51-91) 62-Sm-147
 Cross Section -0.124 To 0.185 %



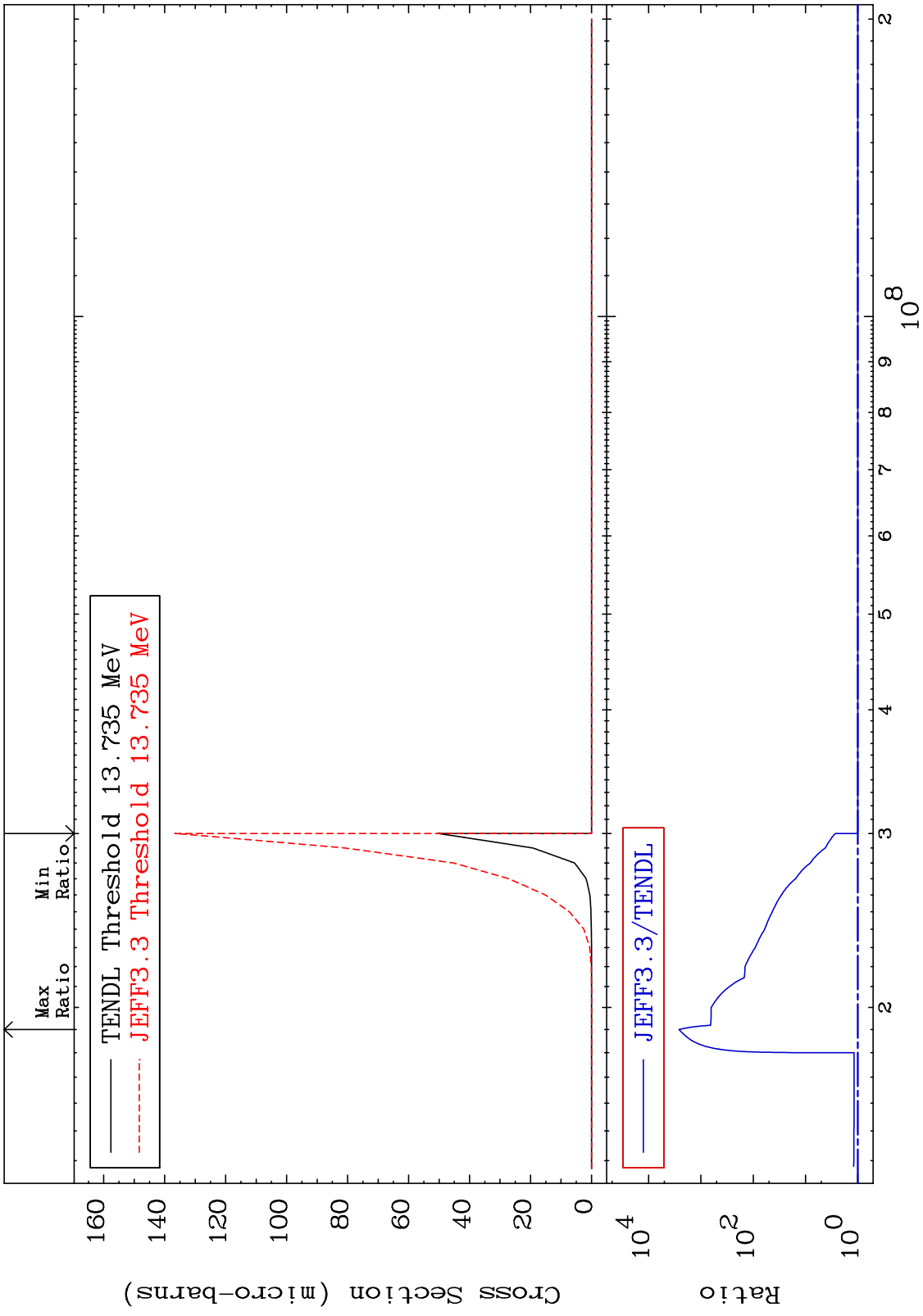
MAT 6234

Dpa disappearance (mt102 -120)
Cross Section

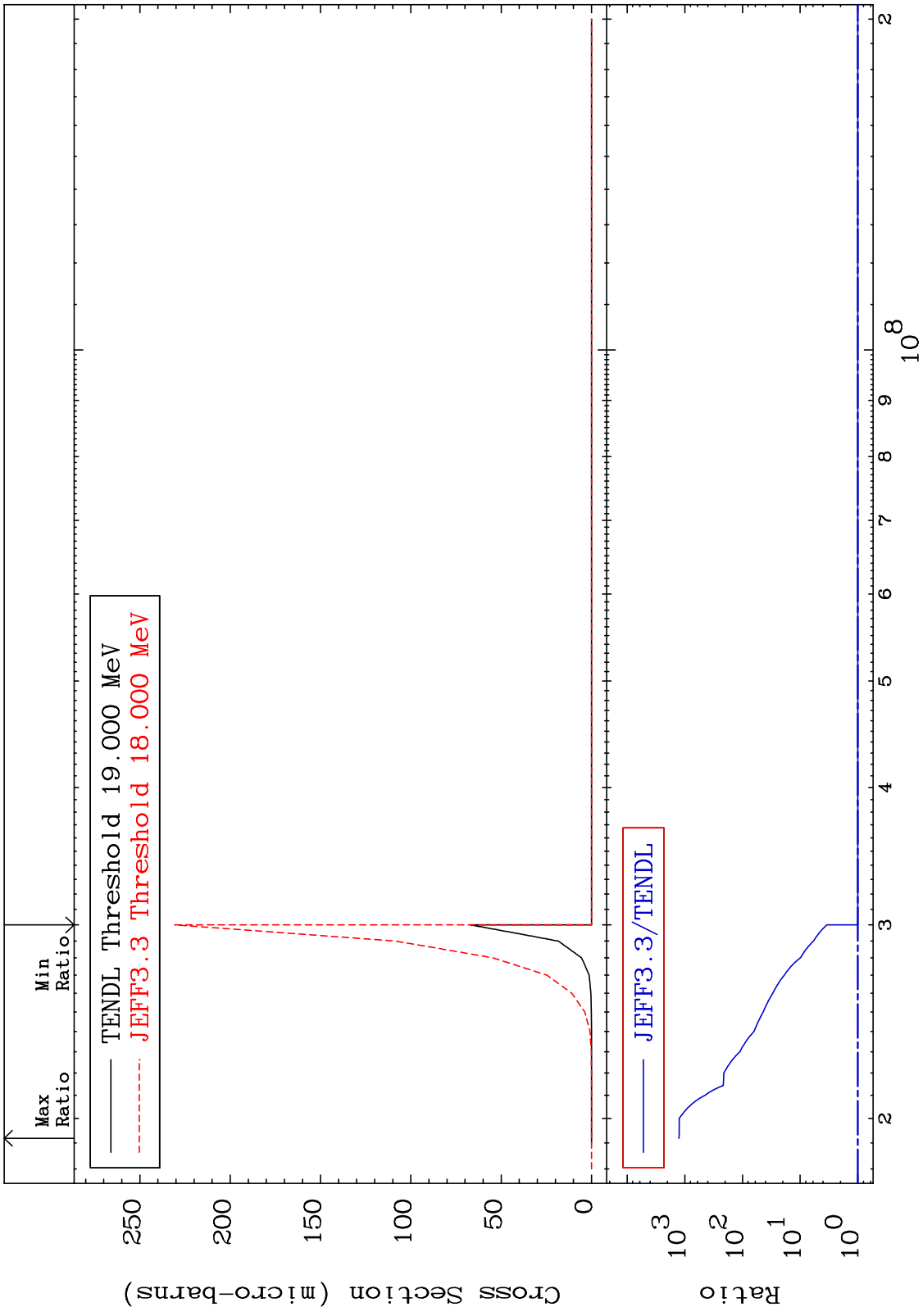
62-Sm-147
-1.628 To 1650. %



MAT 6234 (n,3n) α :60-Nd-141g 62-Sm-147
 Radionuclide Production Cross Section 0.000 To 9999. %

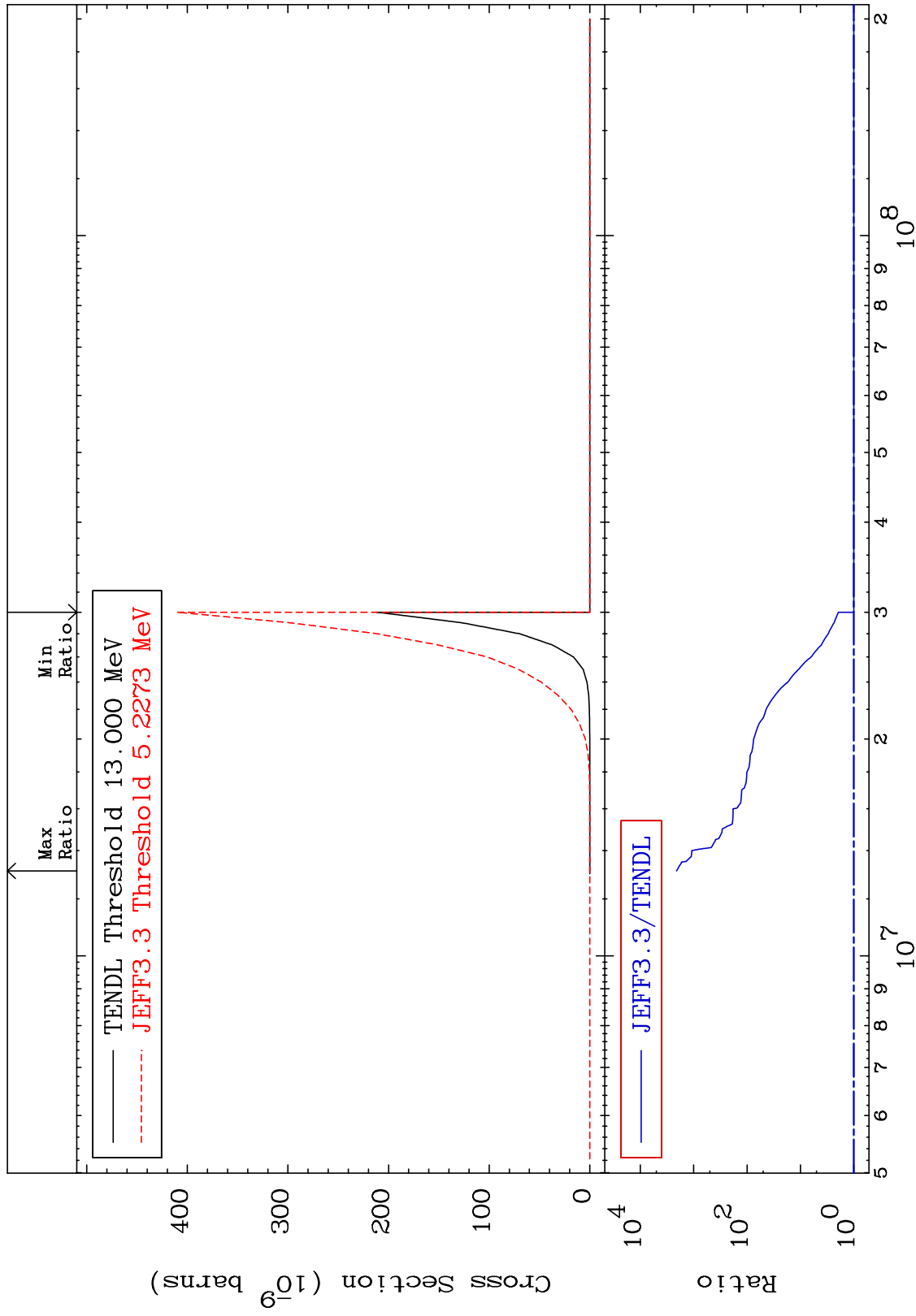


MAT 6234 (n,3n) α : 60-Nd-141m2 62-Sm-147
 Radionuclide Production Cross Section 0.000 To 9999. %



MAT 6234

(n,n') p α:59-Pr-142g 62-Sm-147
Radionuclide Production Cross Section 0.000 To 9999. %



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Incident Energy (eV)

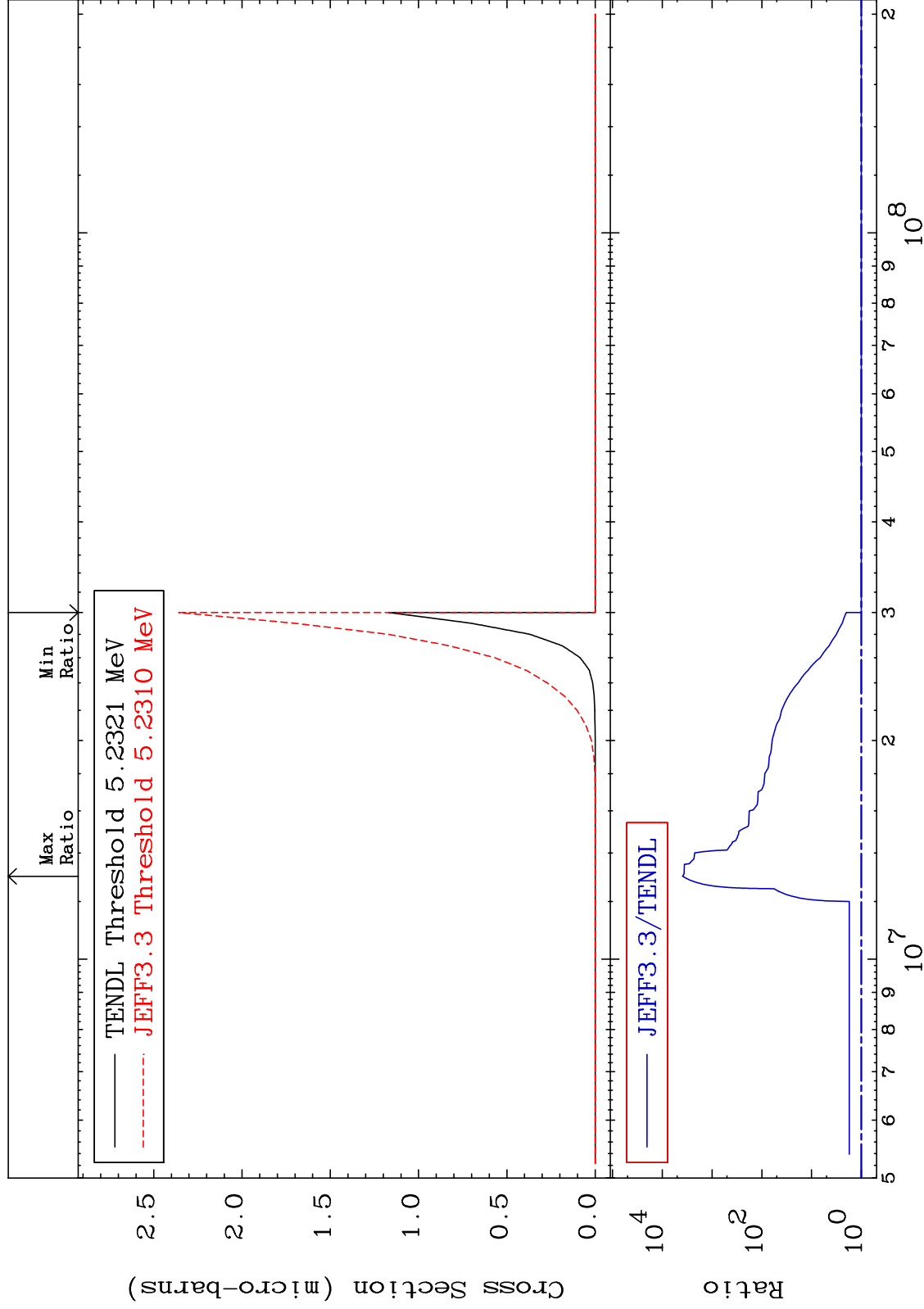
62-Sm-147

MAT 6234

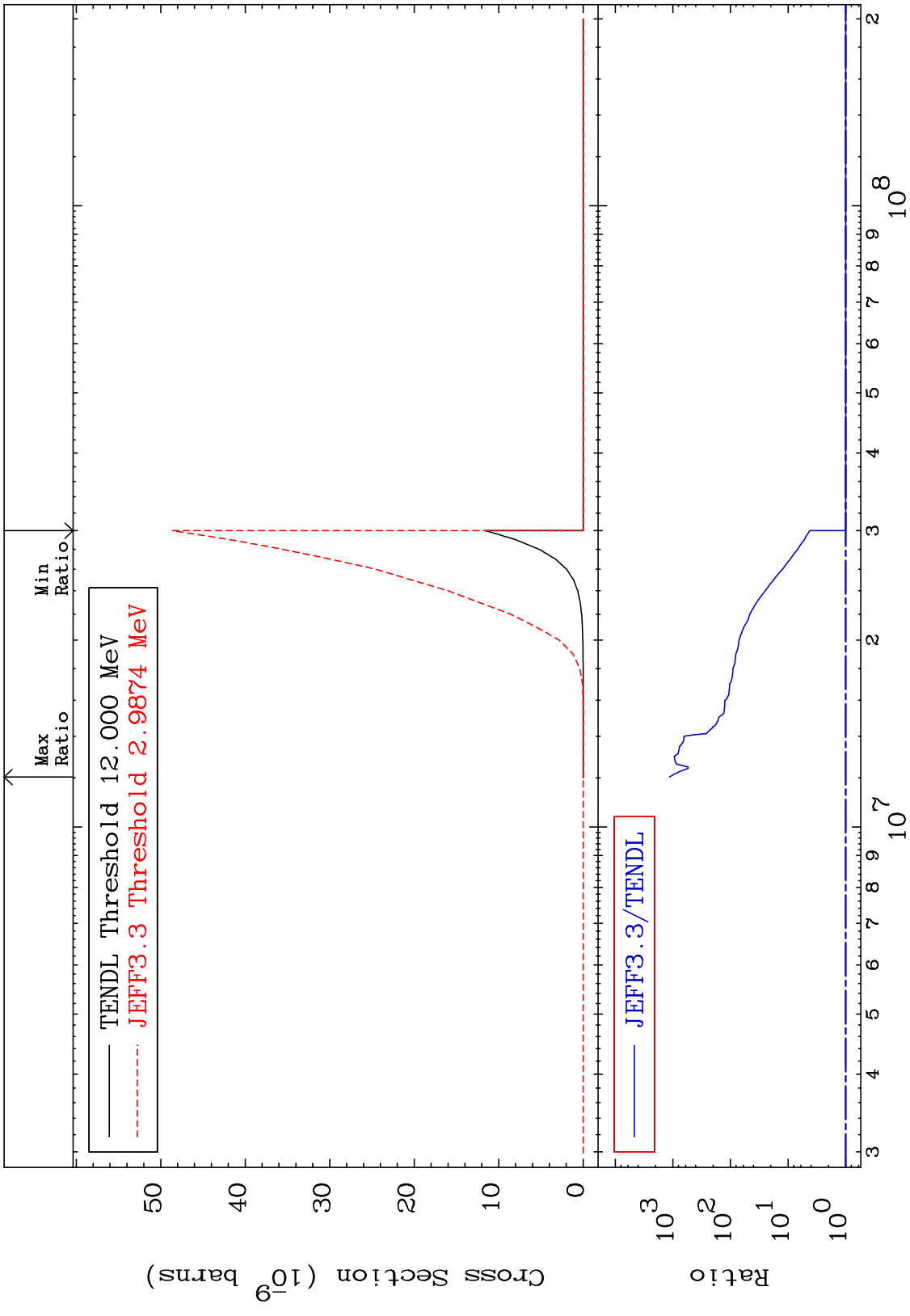
(n,n') p α :59-Pr-142m1

62-Sm-147

Radionuclide Production Cross Section 0.000 To 9999. %



MAT 6234 (n, d) α :59-Pr-142g 62-Sm-147
 Radionuclide Production Cross Section 0.000 To 9999. %

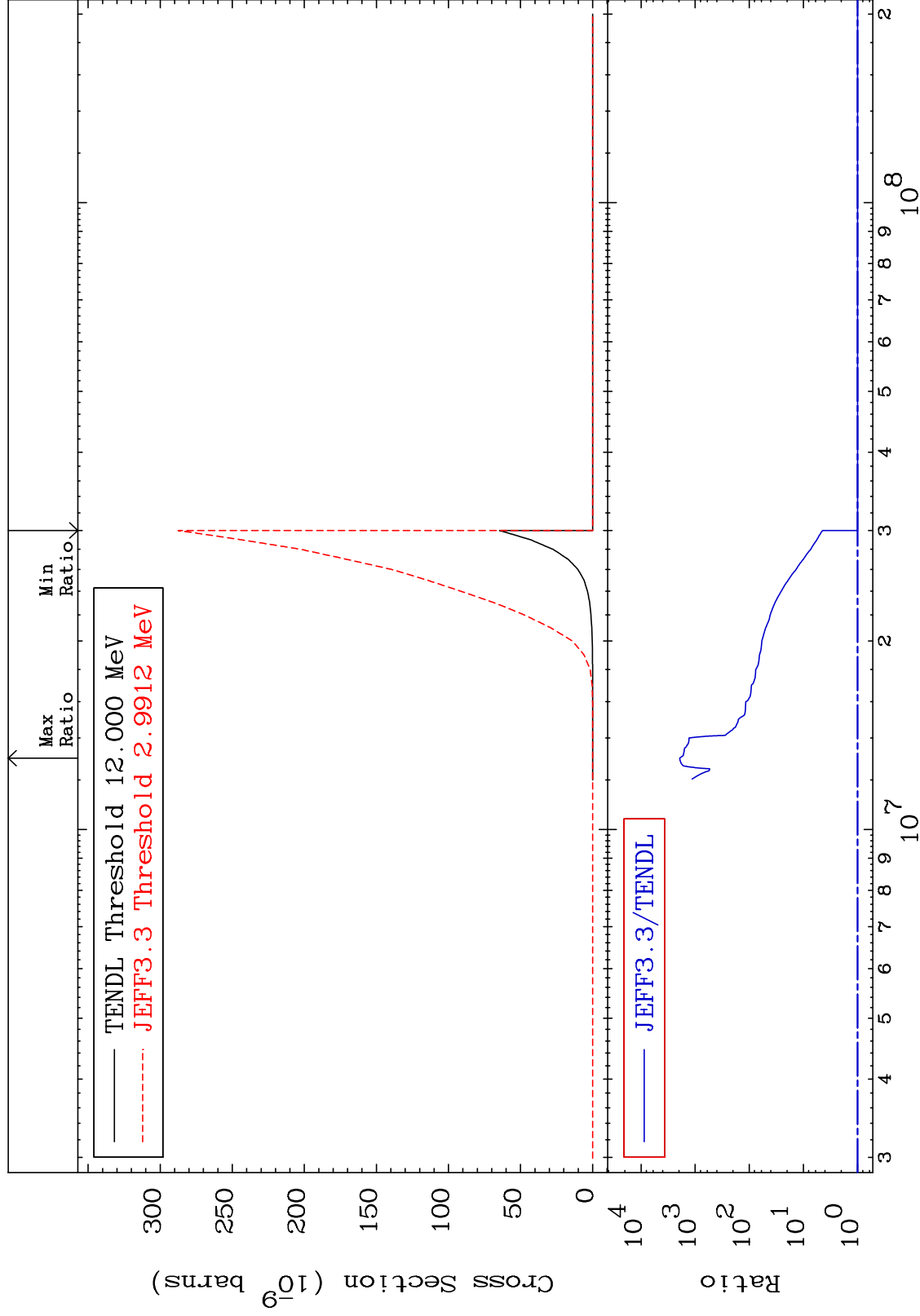


MAT 6234

(n, d) α :59-Pr-142m1

62-Sm-147

Radionuclide Production Cross Section 0.000 To 9999. %



85

Incident Energy (eV)

62-Sm-147