

Program Complot
(Version 2018-1)

by

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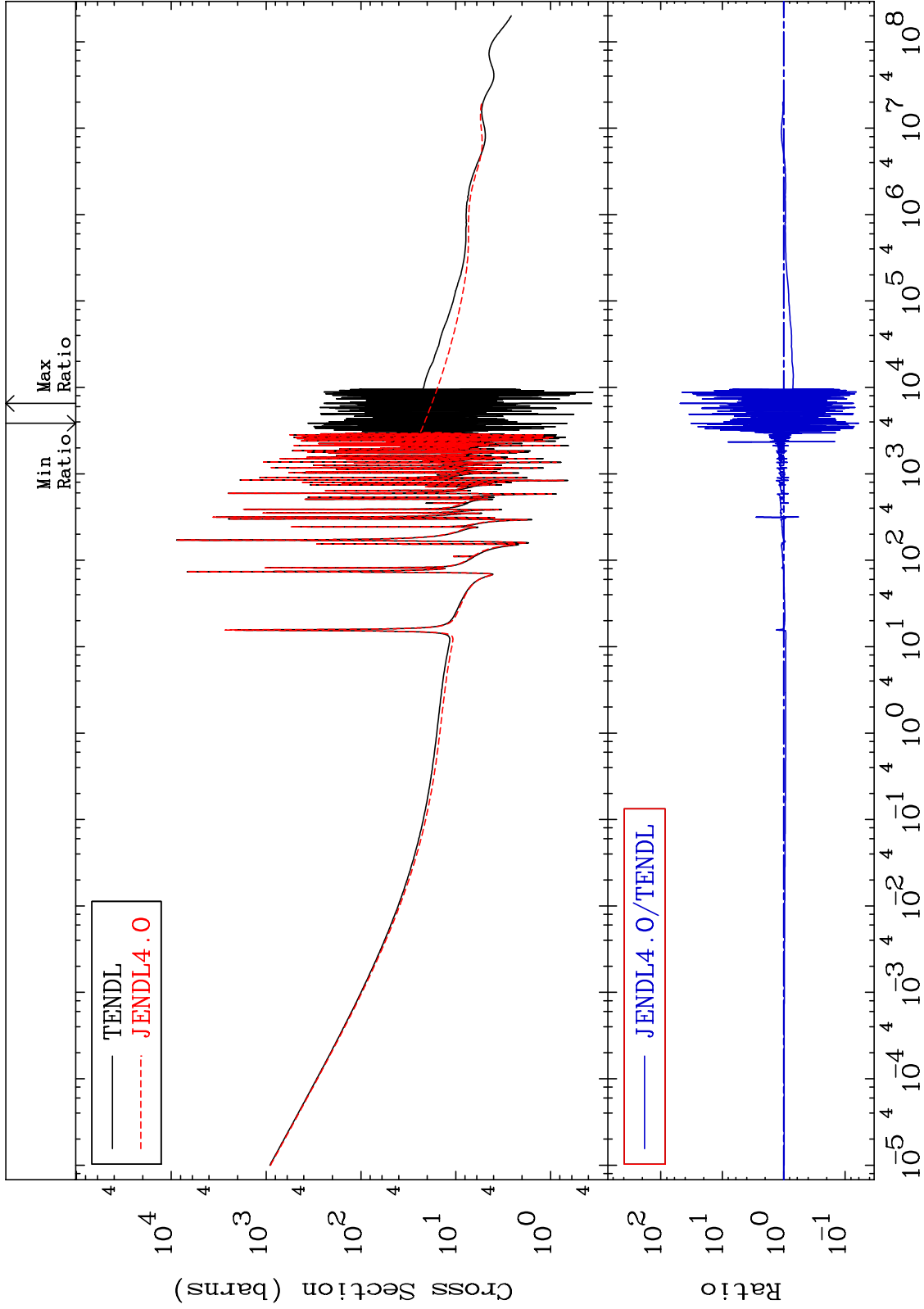
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6837

Total
Cross Section

68-Er-166
-94.03 To 4732. %



1

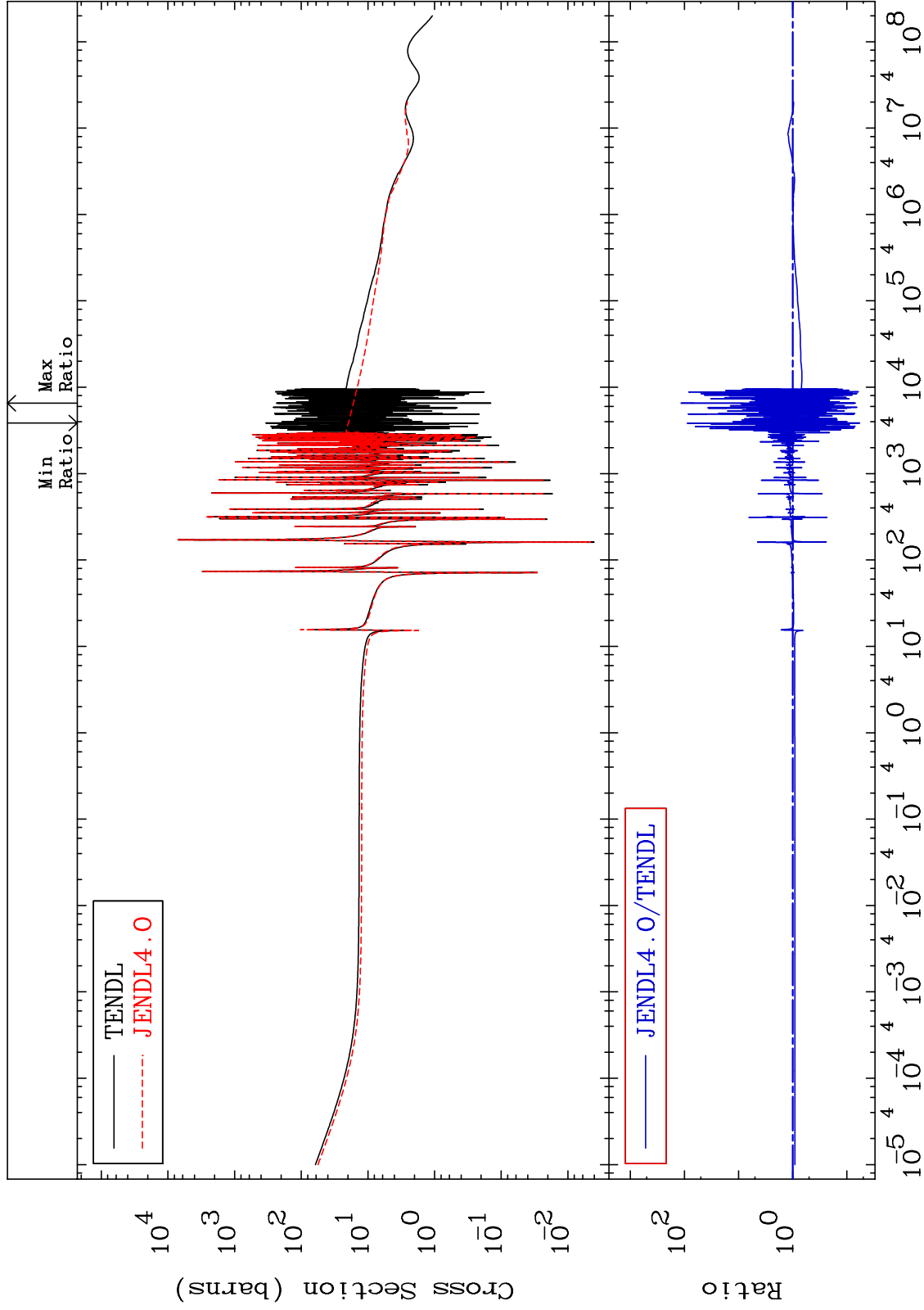
Incident Energy (eV)

68-Er-166

MAT 6837

Elastic
Cross Section

68-Er-166
-94.22 To 9999. %



2

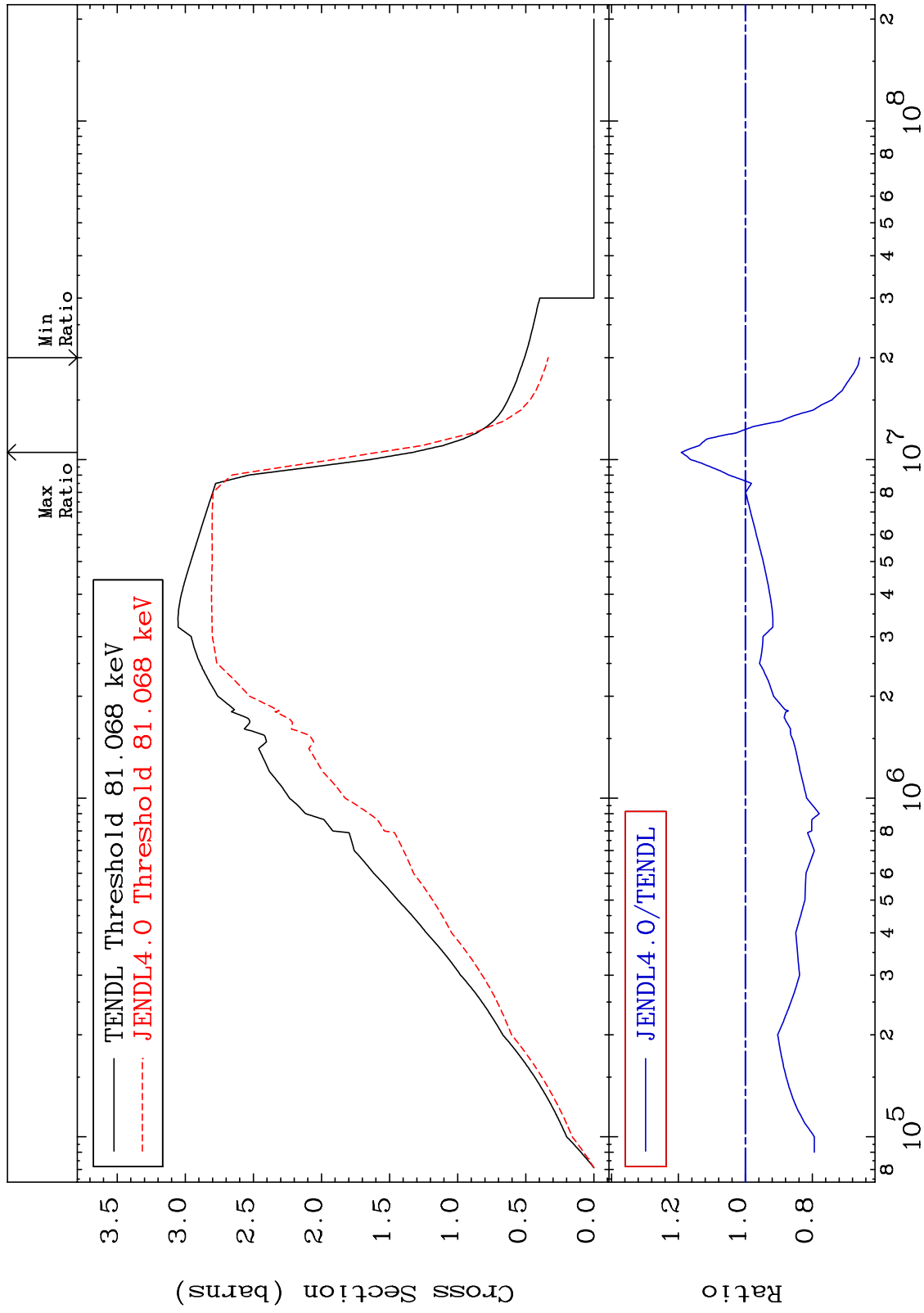
Incident Energy (eV)

68-Er-166

MAT 6837

Inelastic
Cross Section

68-Er-166
-34.16 To 19.16 %



3

Incident Energy (eV)

68-Er-166

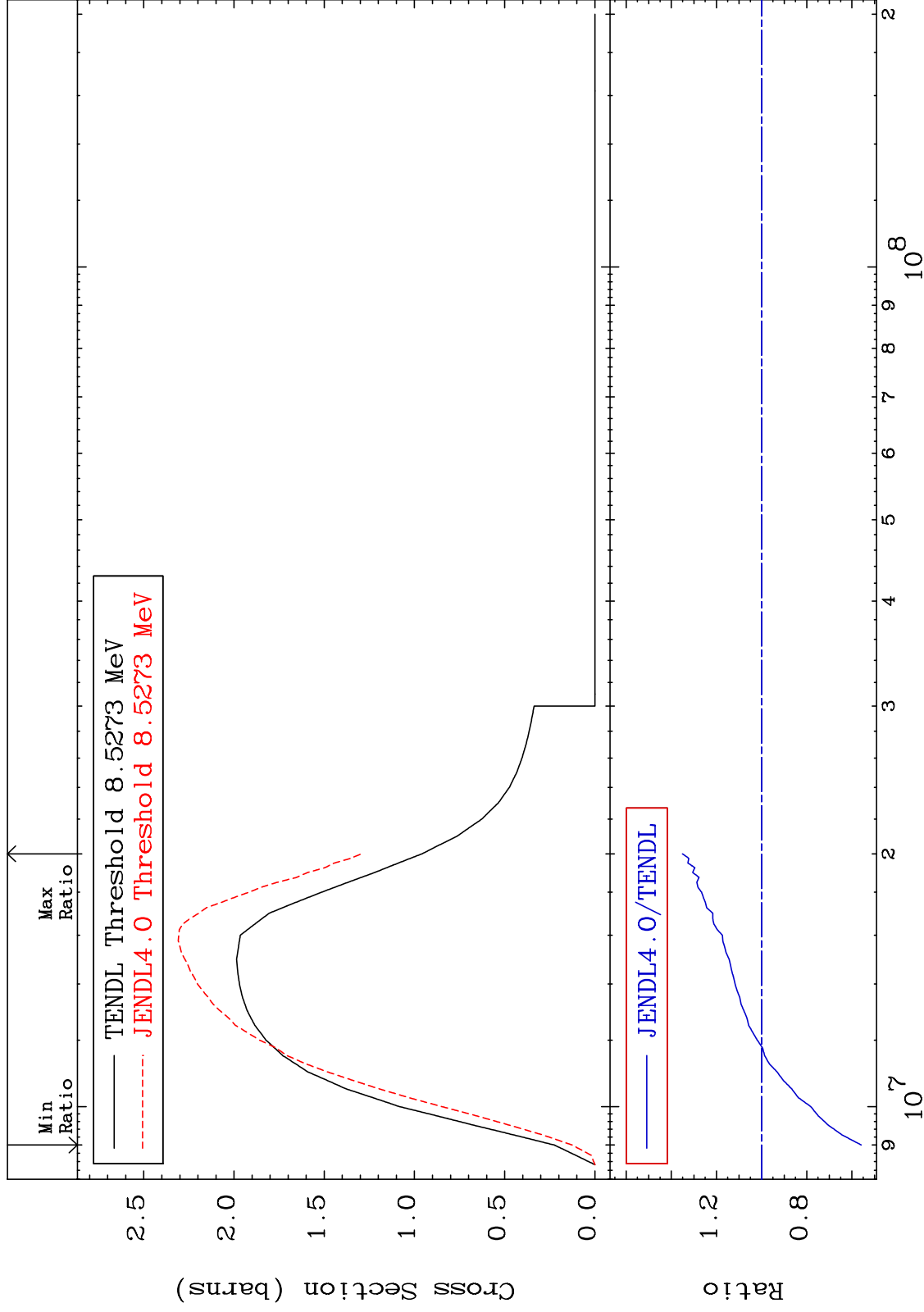
MAT 6837

(n,2n)

68-Er-166

Cross Section

-44.16 To 35.06 %



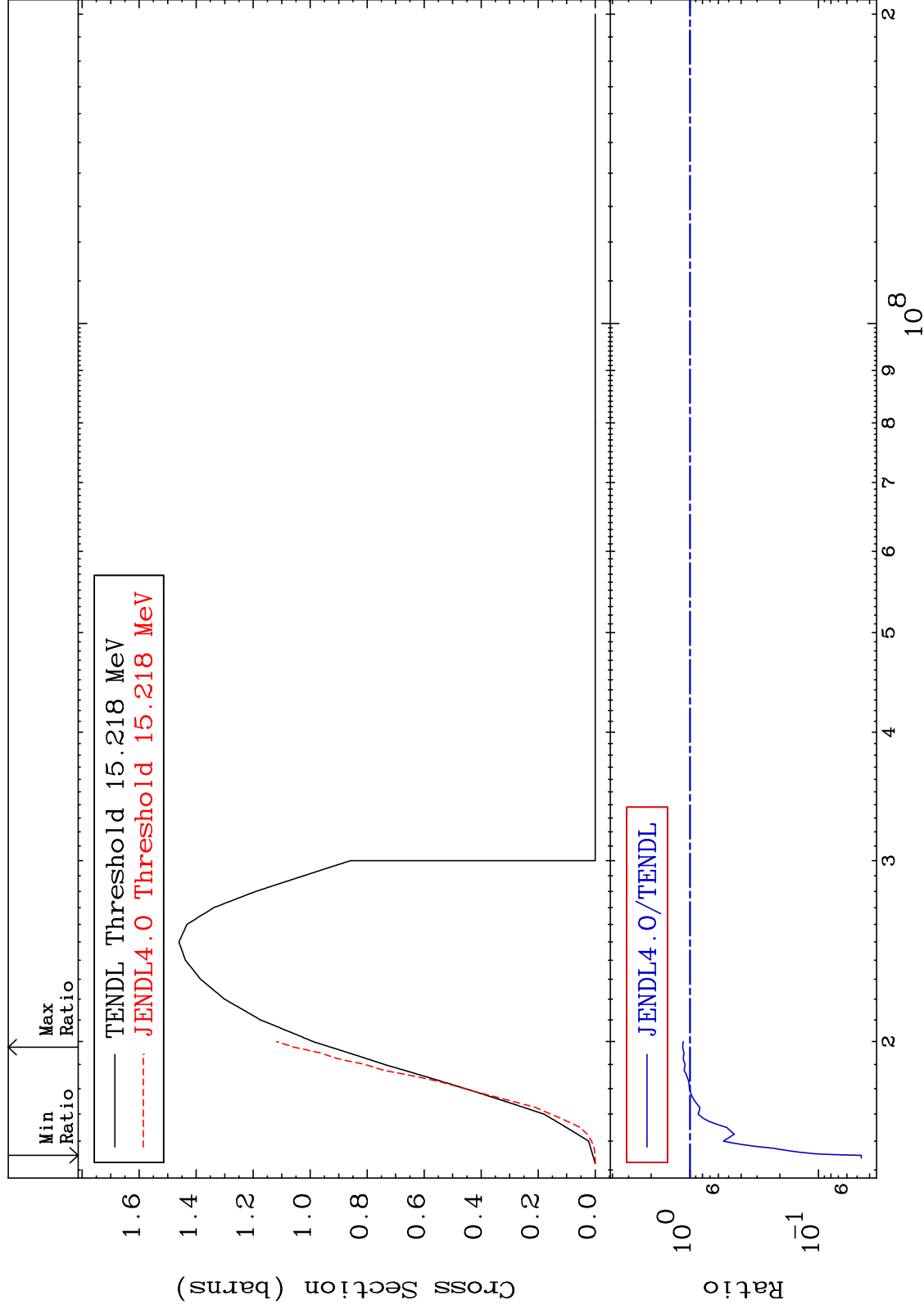
MAT 6837

(n,3n)

68-Er-166

Cross Section

-95.37 To 13.89 %



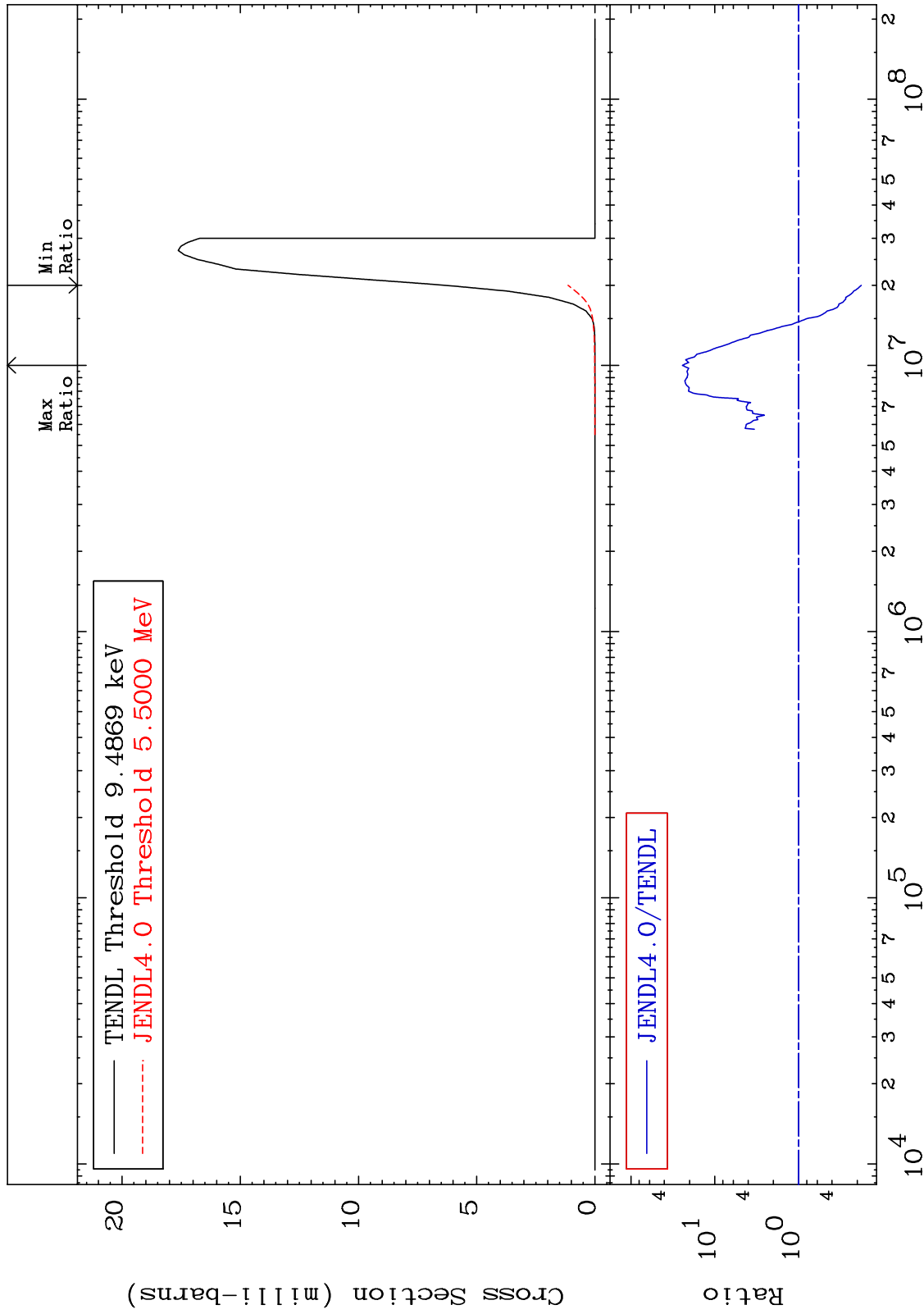
MAT 6837

(n, n') α

68-Er-166

Cross Section

-82.08 To 2330. %

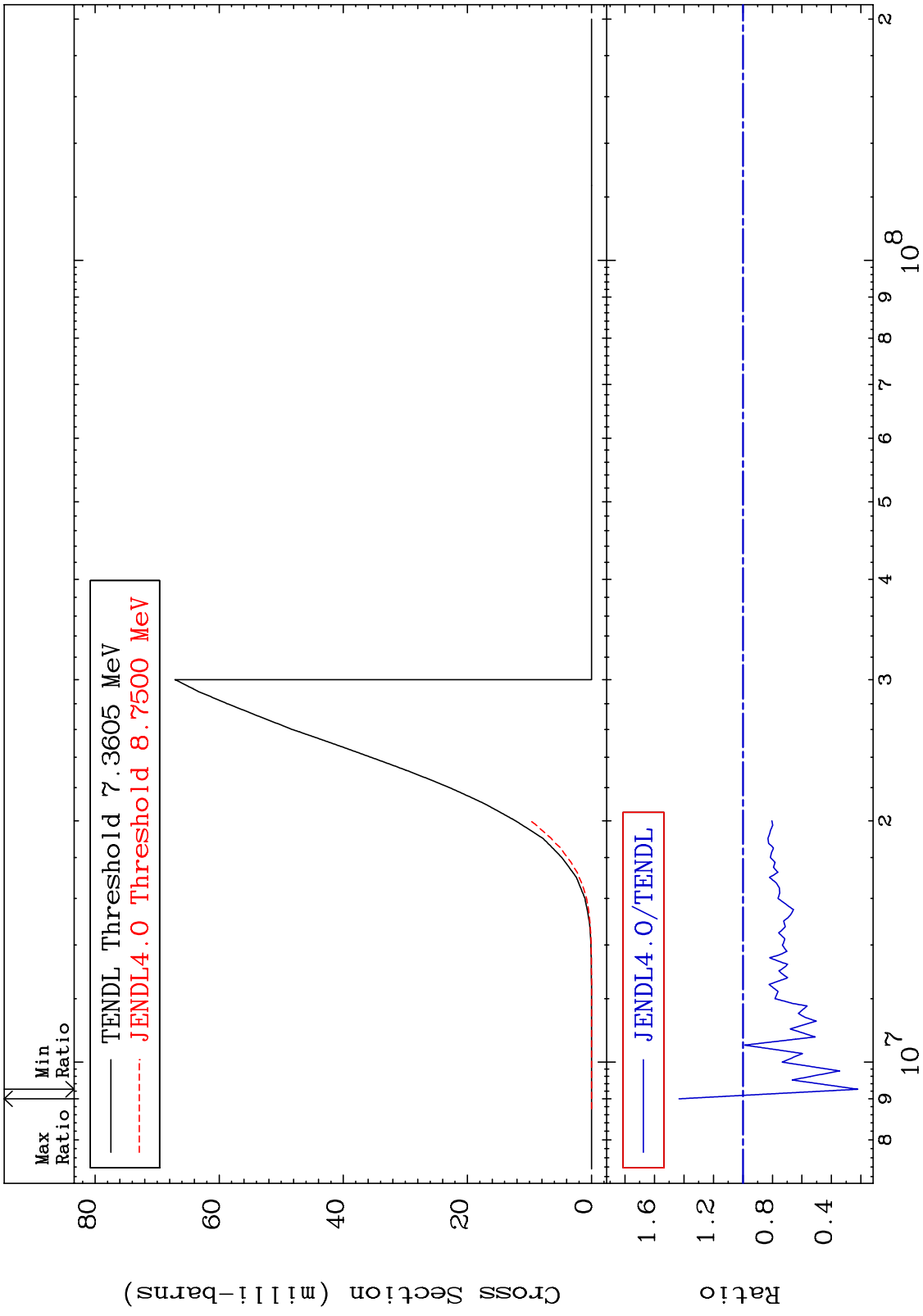


6

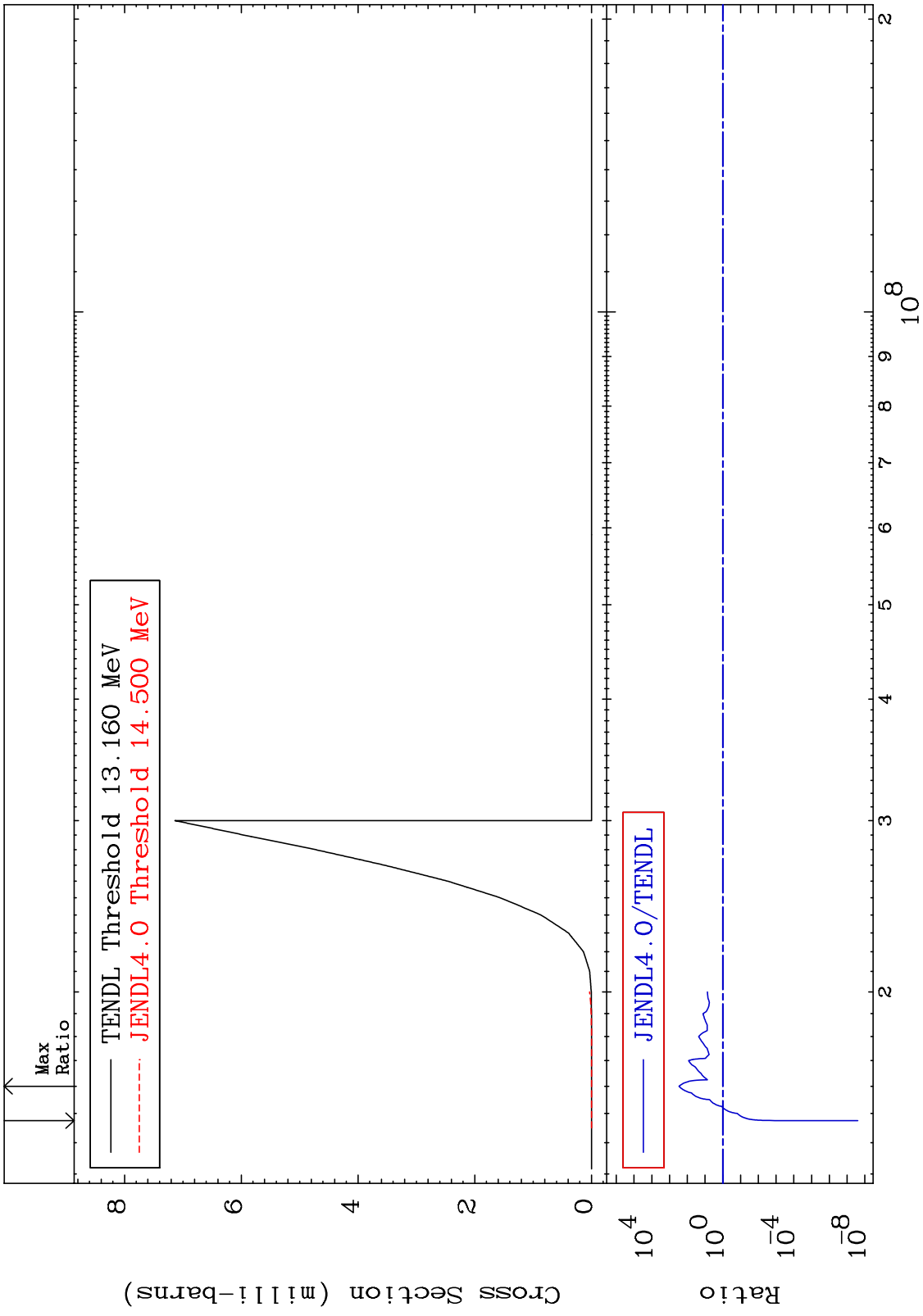
Incident Energy (eV)

68-Er-166

MAT 6837 (n,n') p 68-Er-166
Cross Section -77.91 To 43.33 %



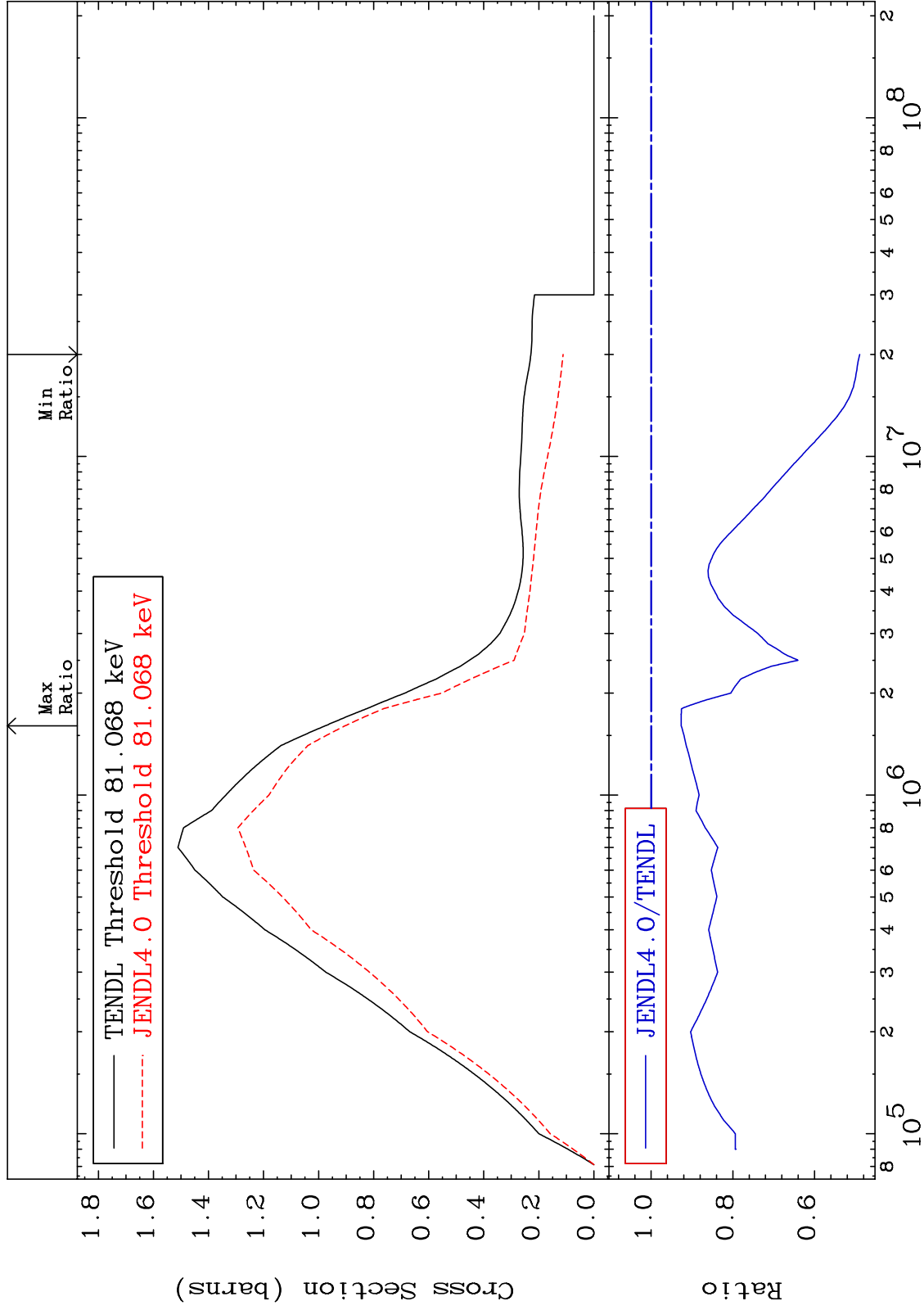
7 68-Er-166



MAT 6837

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

68-Er-166
-51.06 To -7.368%

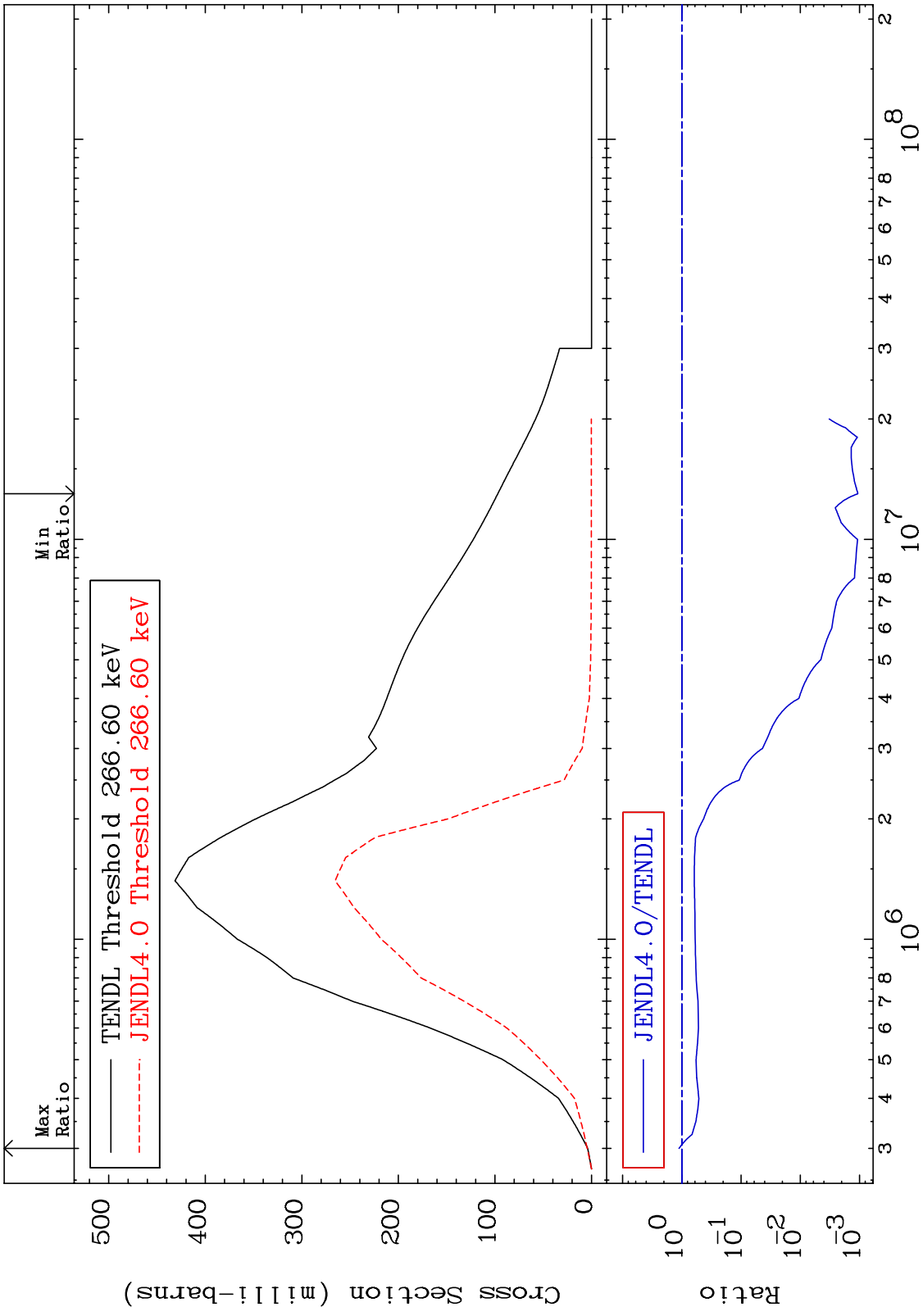


9

Incident Energy (eV)

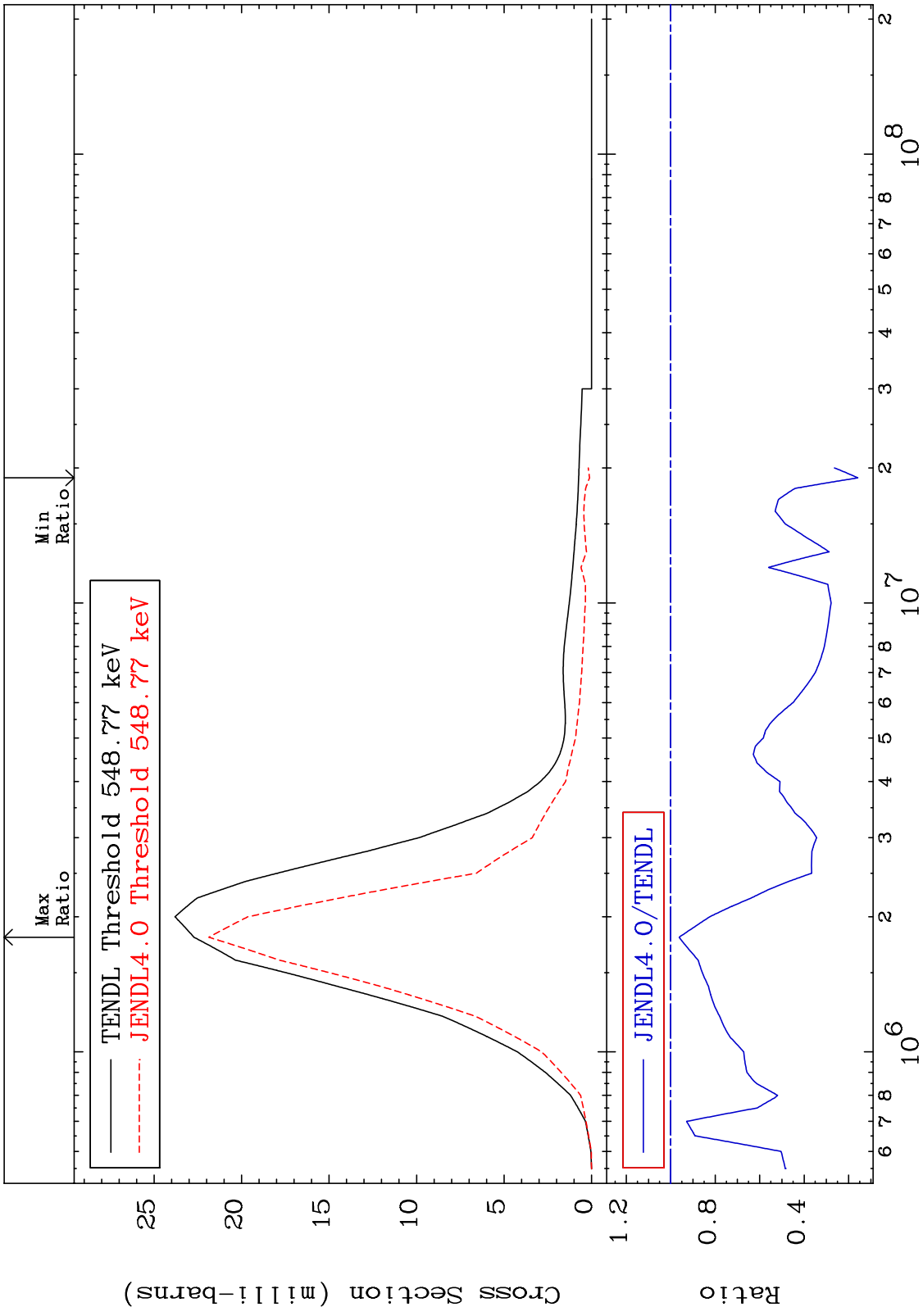
68-Er-166

MAT 6837 MT= 52 (n,n') Level Cross Section 68-Er-166 -99.89 To 11.10 %

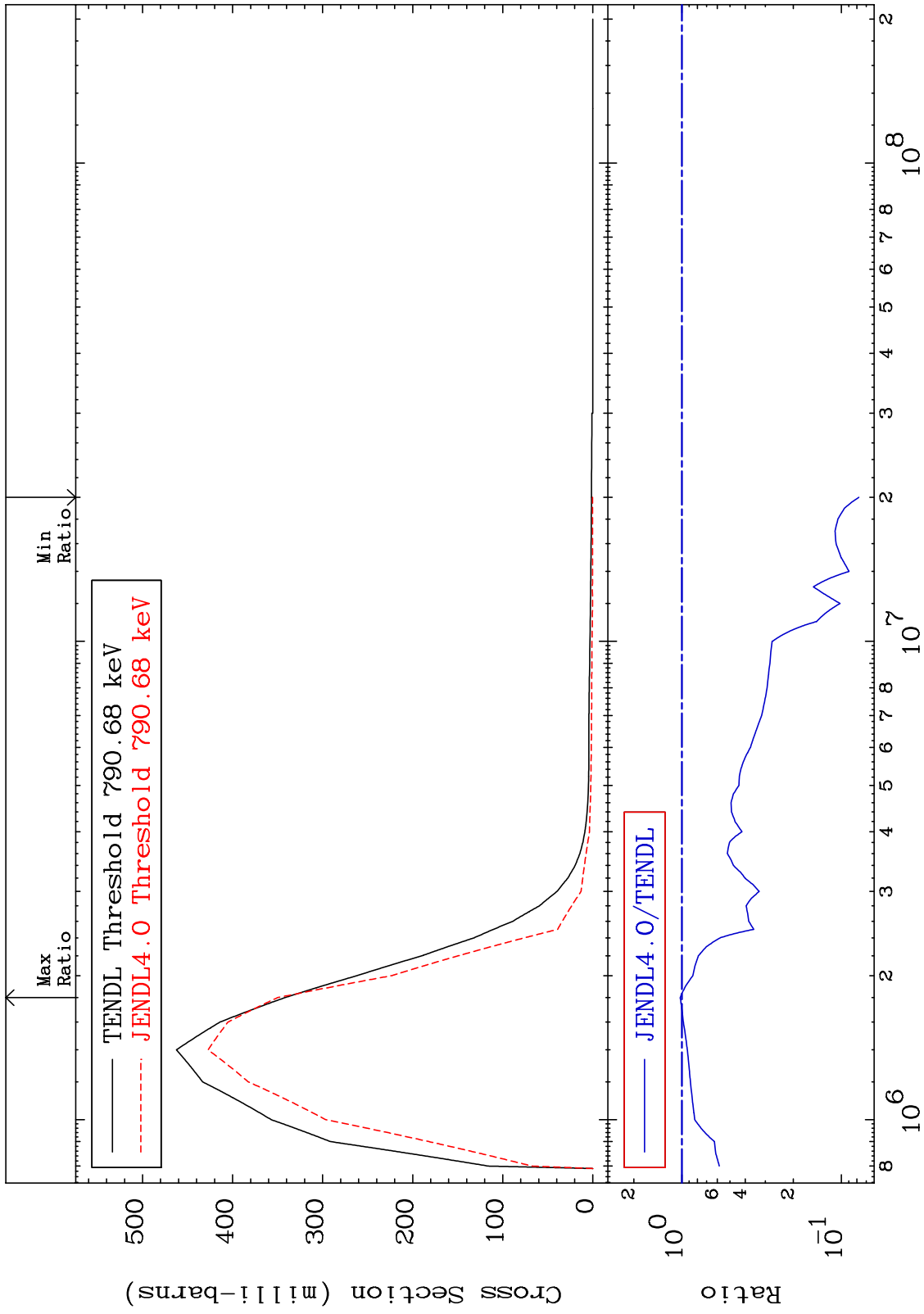


10 68-Er-166

MAT 6837 MT= 53 (n,n') Level Cross Section 68-Er-166
 -84.16 To -3.736%

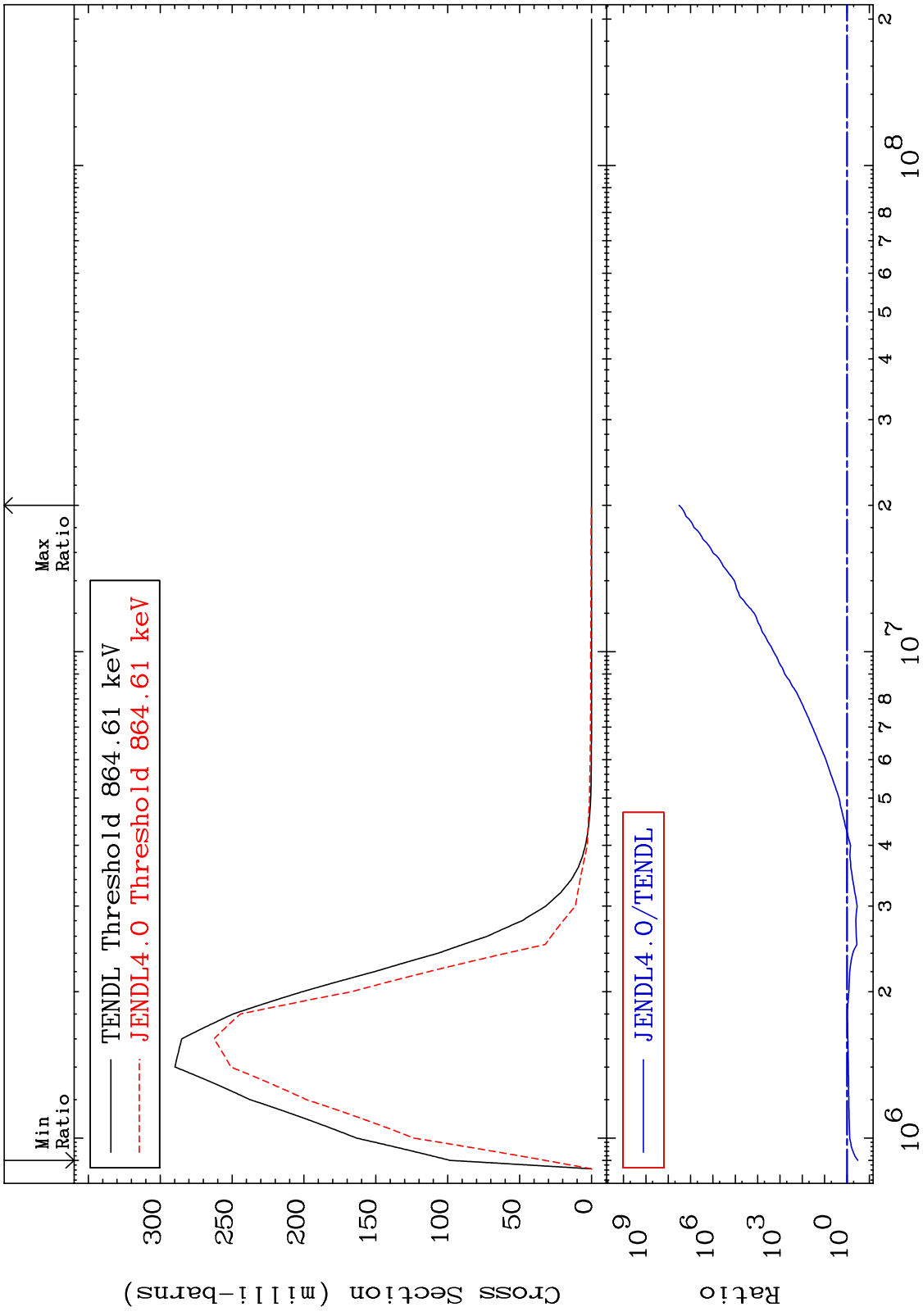


MAT 6837 MT= 54 (n,n') Level Cross Section 68-Er-166 -92.23 To 2.368 %



12 68-Er-166

MAT 6837 MT= 55 (n,n') Level Cross Section 68-Er-166 -67.20 To 9999. %

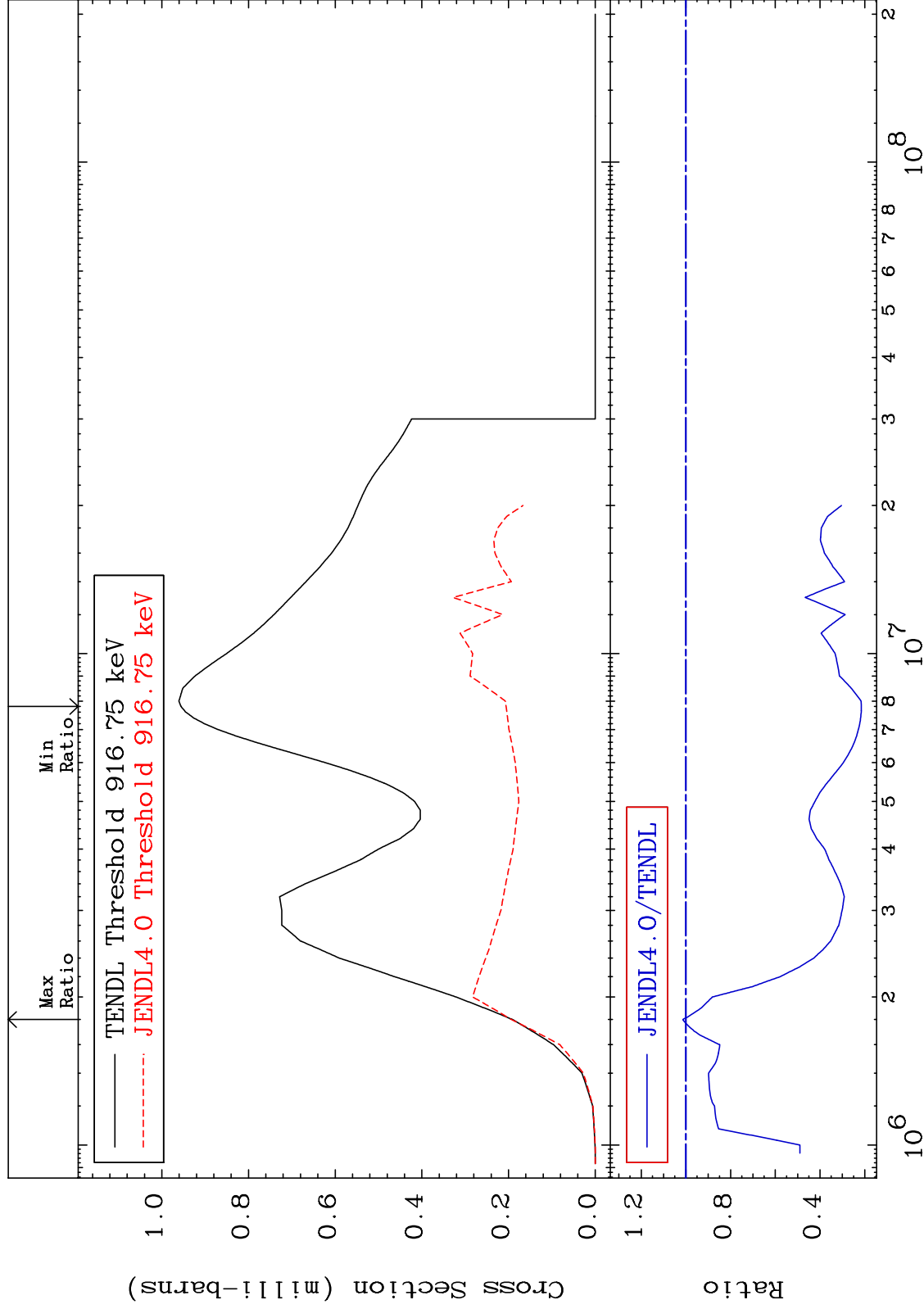


13 68-Er-166

MAT 6837

MT= 56 (n,n') Level
Cross Section

68-Er-166
-78.48 To 1.452 %

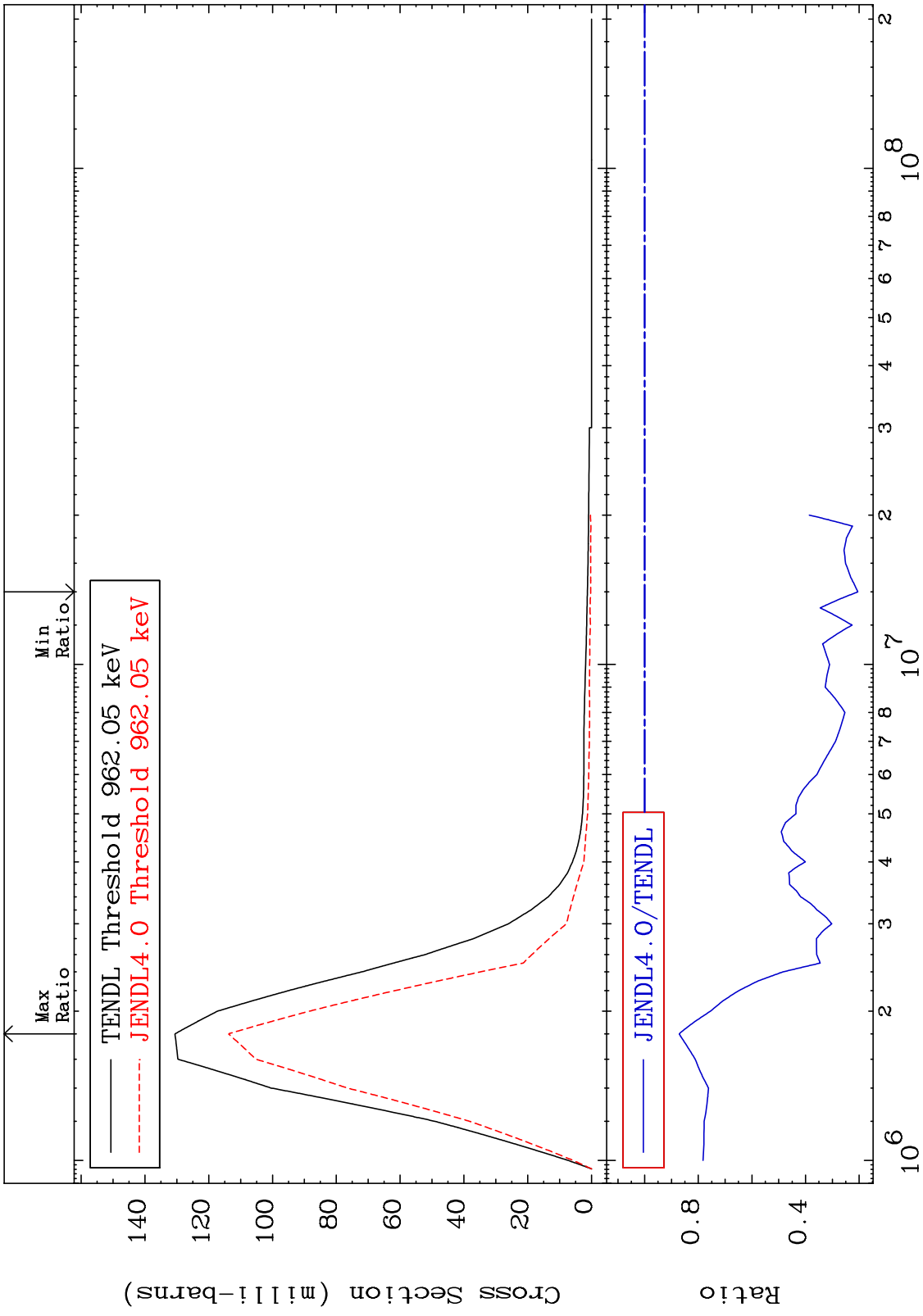


14

Incident Energy (eV)

68-Er-166

MAT 6837 MT= 57 (n,n') Level Cross Section 68-Er-166 -79.51 To -12.82%

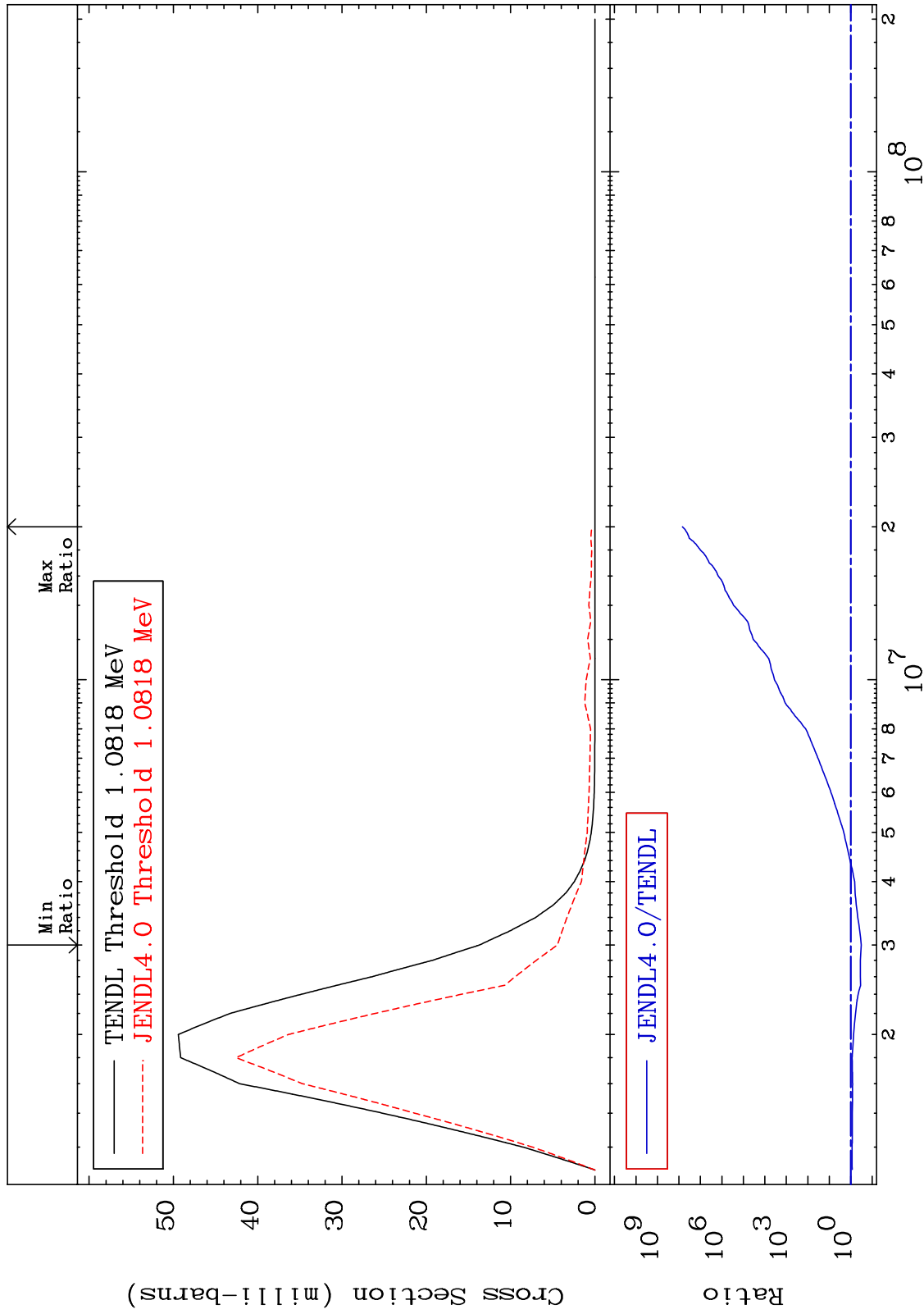


15 68-Er-166

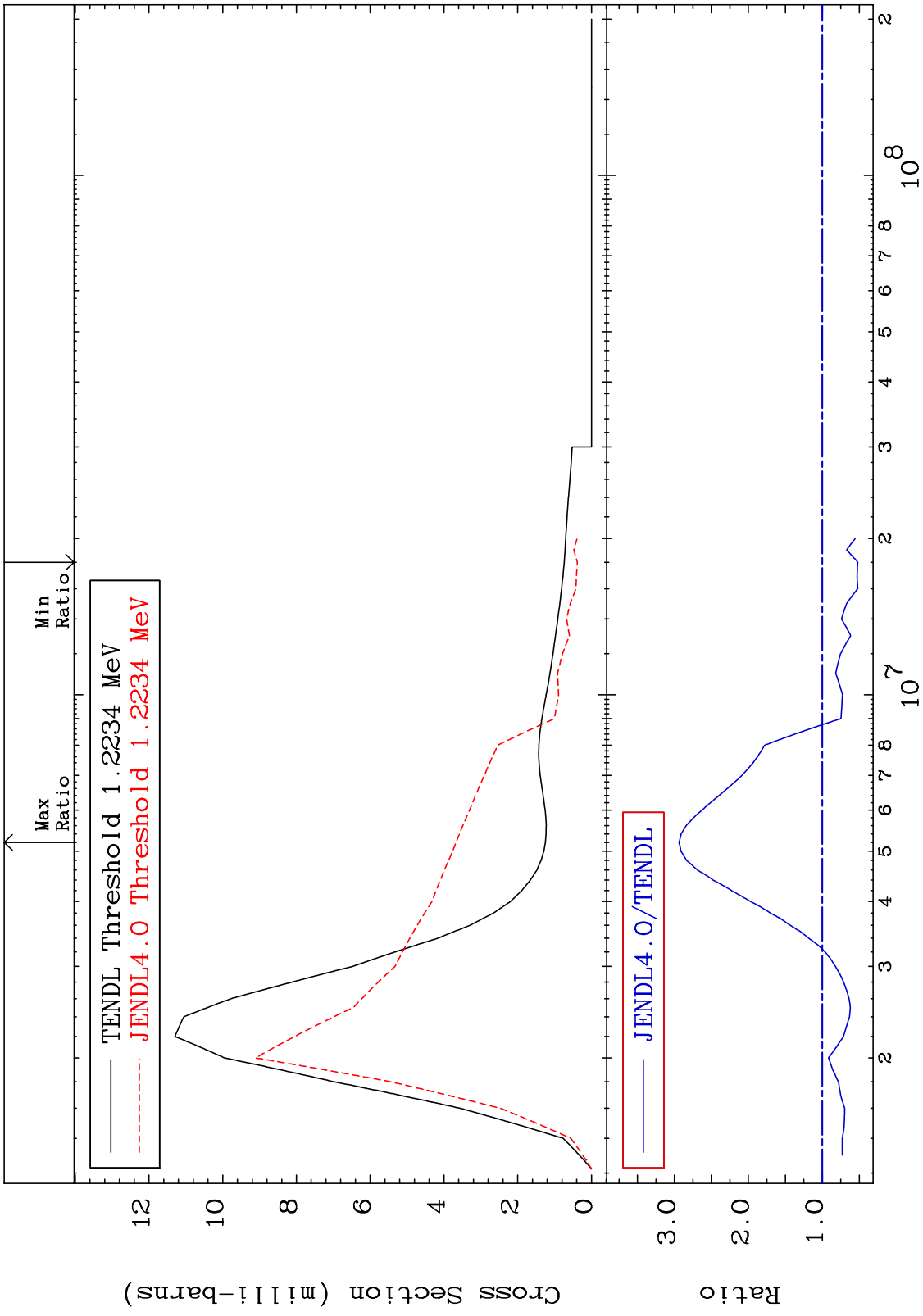
MAT 6837

MT= 58 (n,n') Level
Cross Section

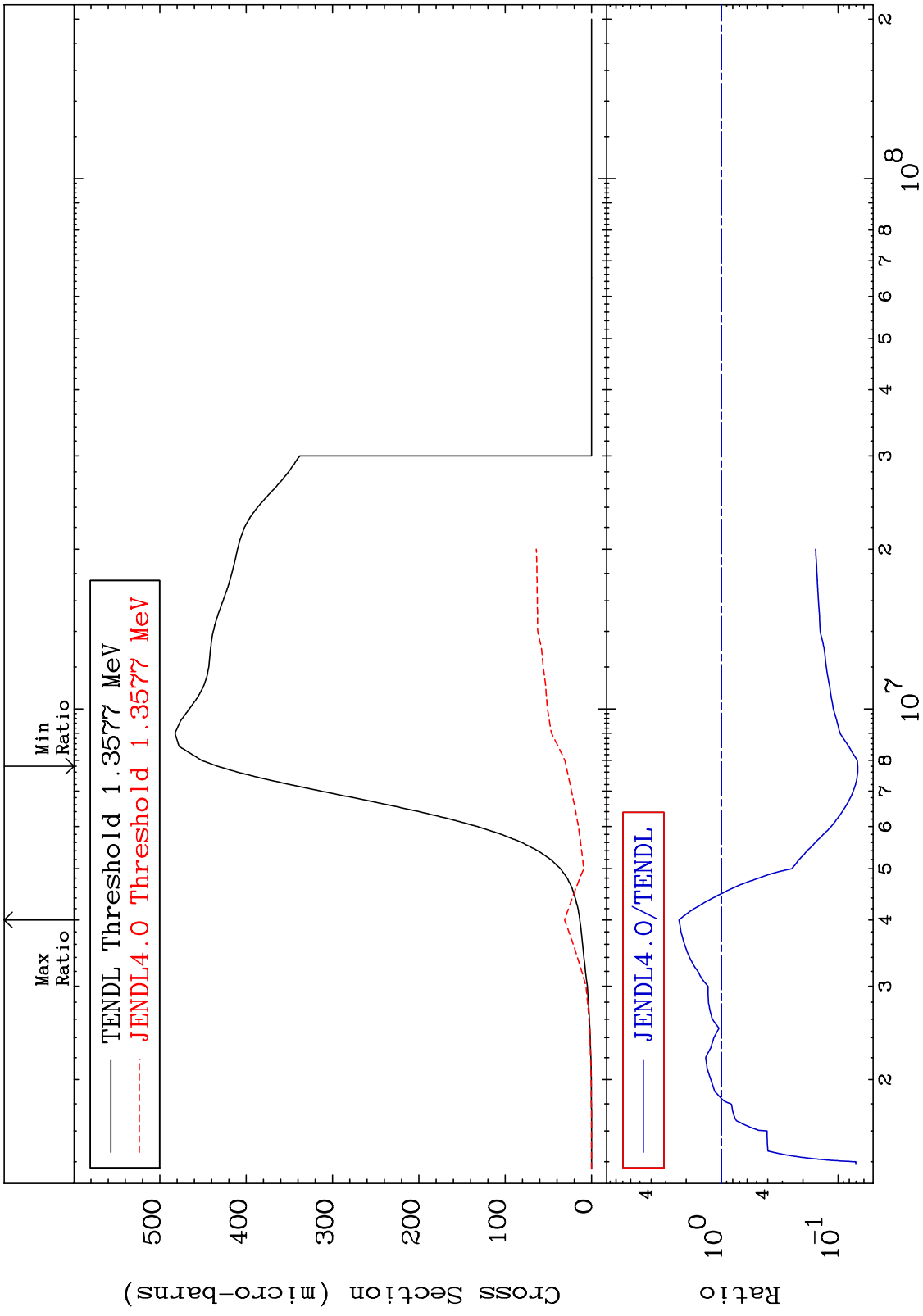
68-Er-166
-67.53 To 9999. %



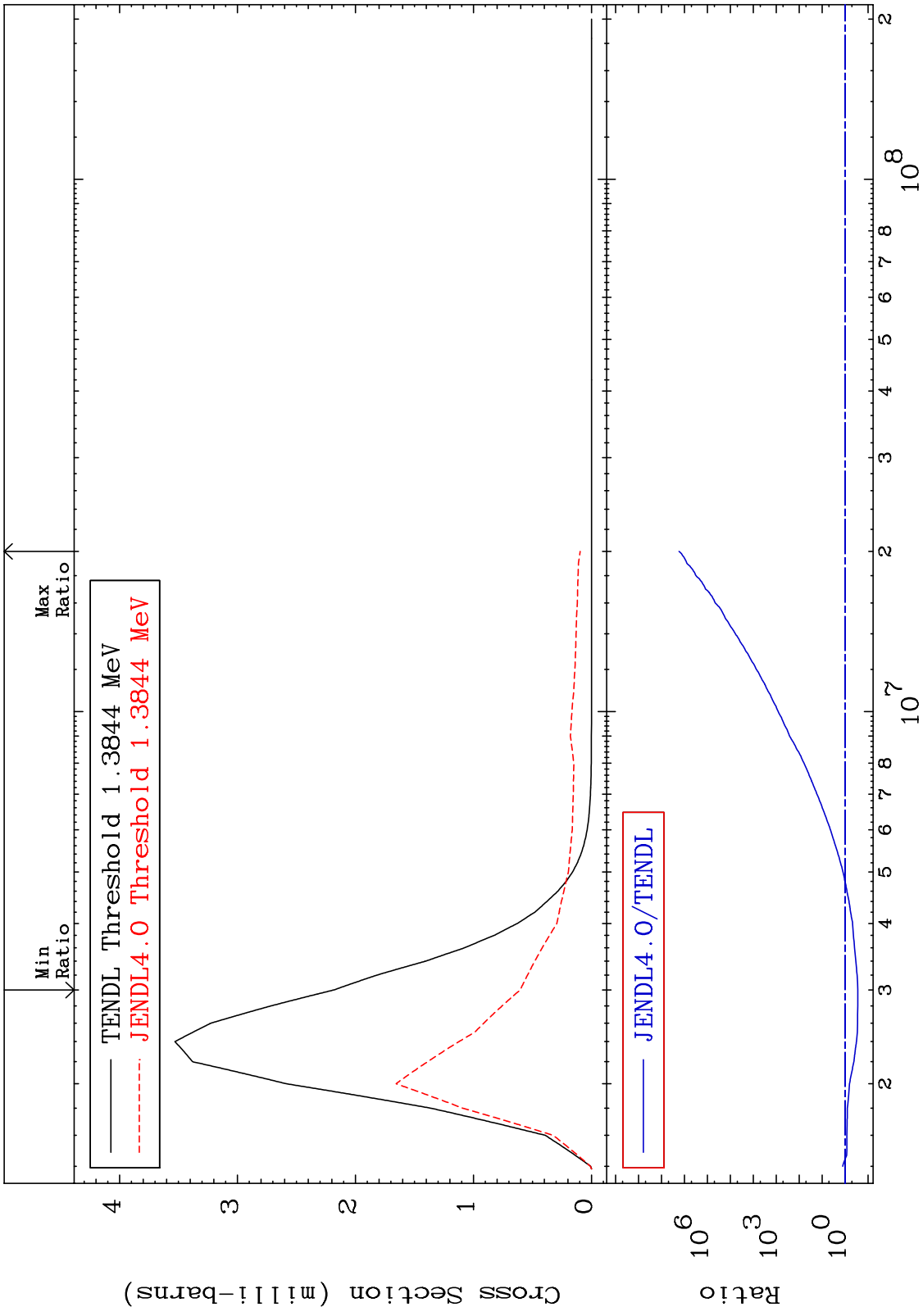
MAT 6837 MT= 59 (n,n') Level Cross Section 68-Er-166
 -48.10 To 193.8 %



MAT 6837 MT= 60 (n,n') Level Cross Section 68-Er-166
 -93.24 To 130.7 %



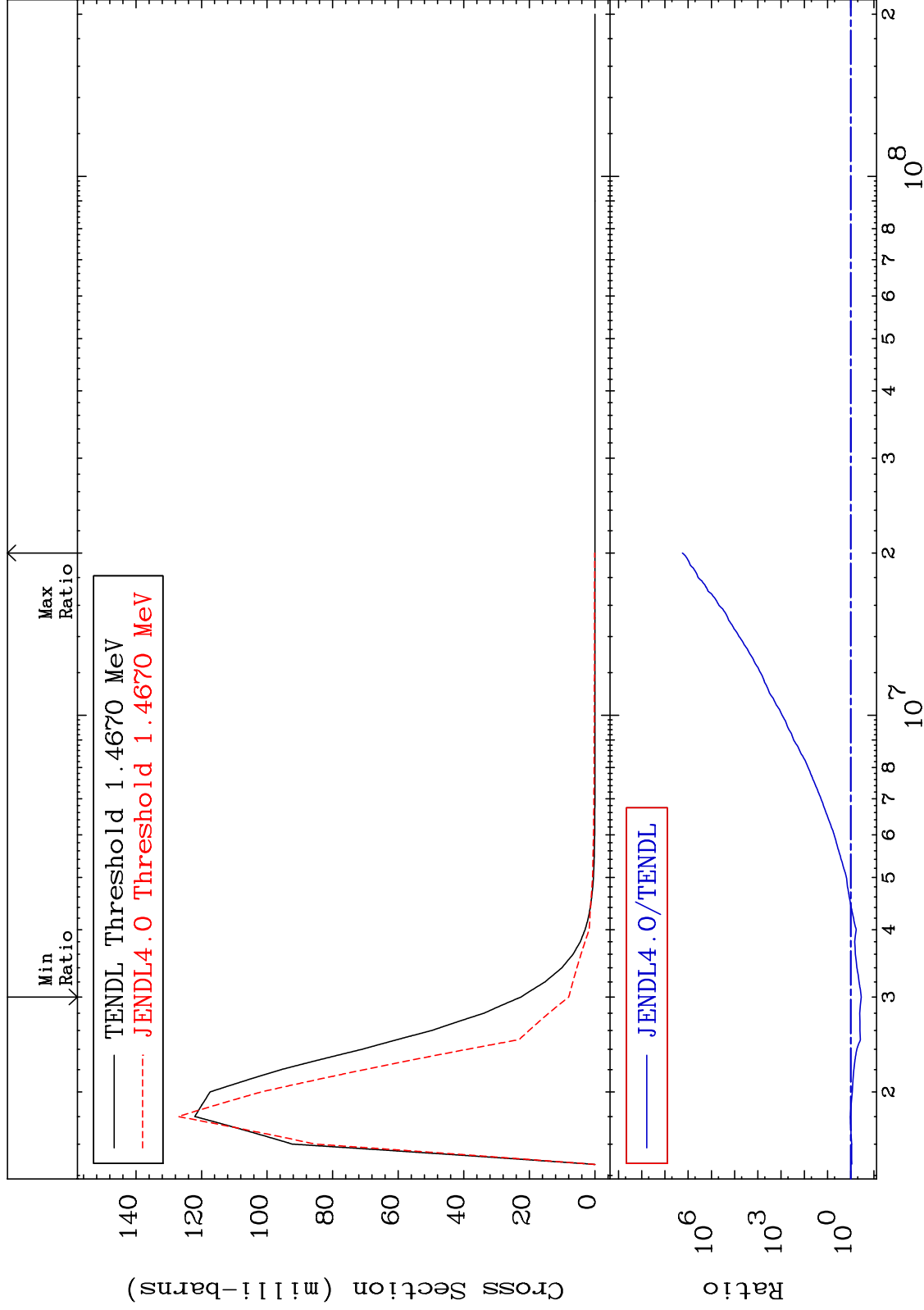
MAT 6837 MT= 61 (n,n') Level Cross Section 68-Er-166
 -72.33 To 9999. %



MAT 6837

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

68-Er-166
-64.65 To 9999. %



20

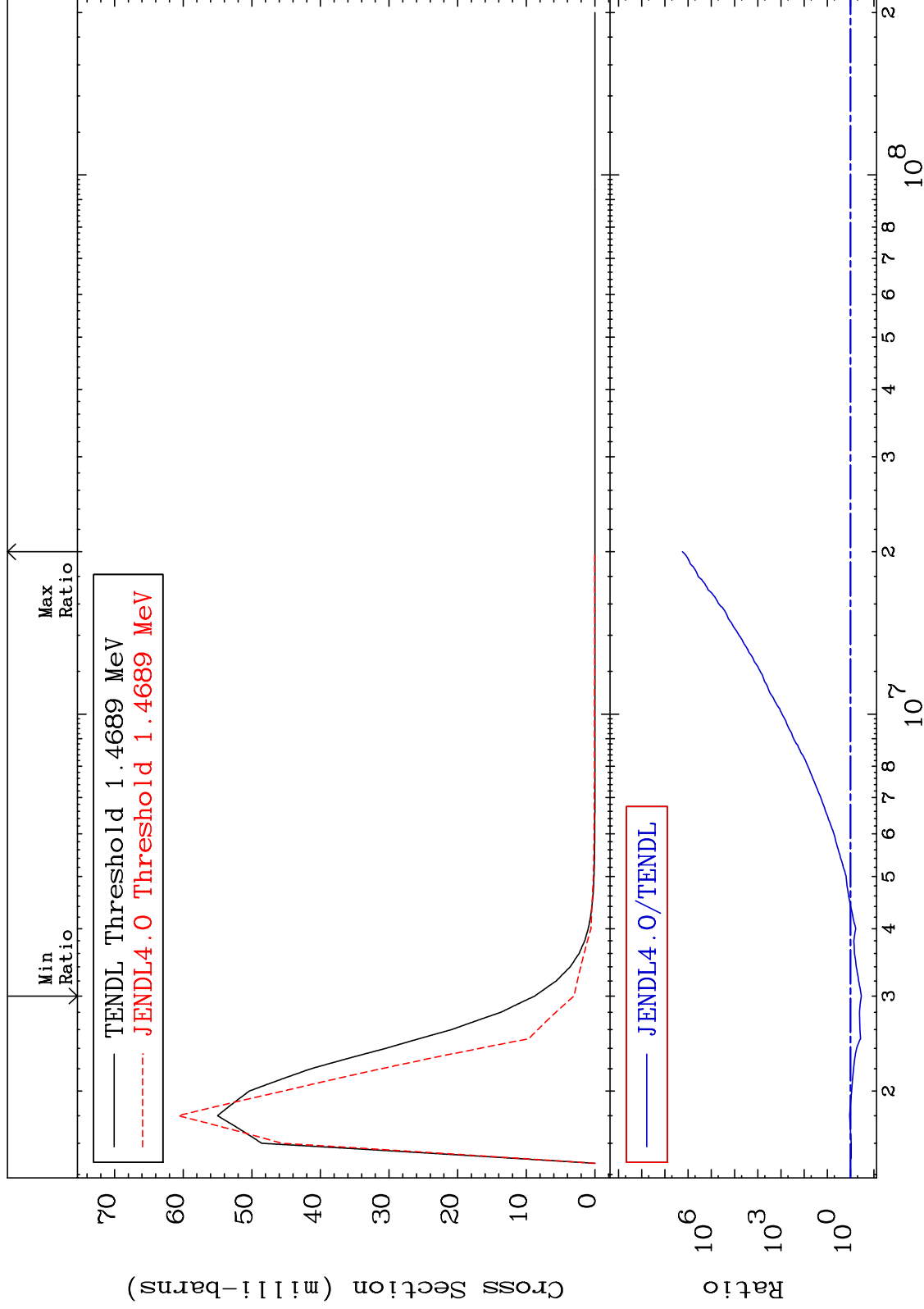
Incident Energy (eV)

68-Er-166

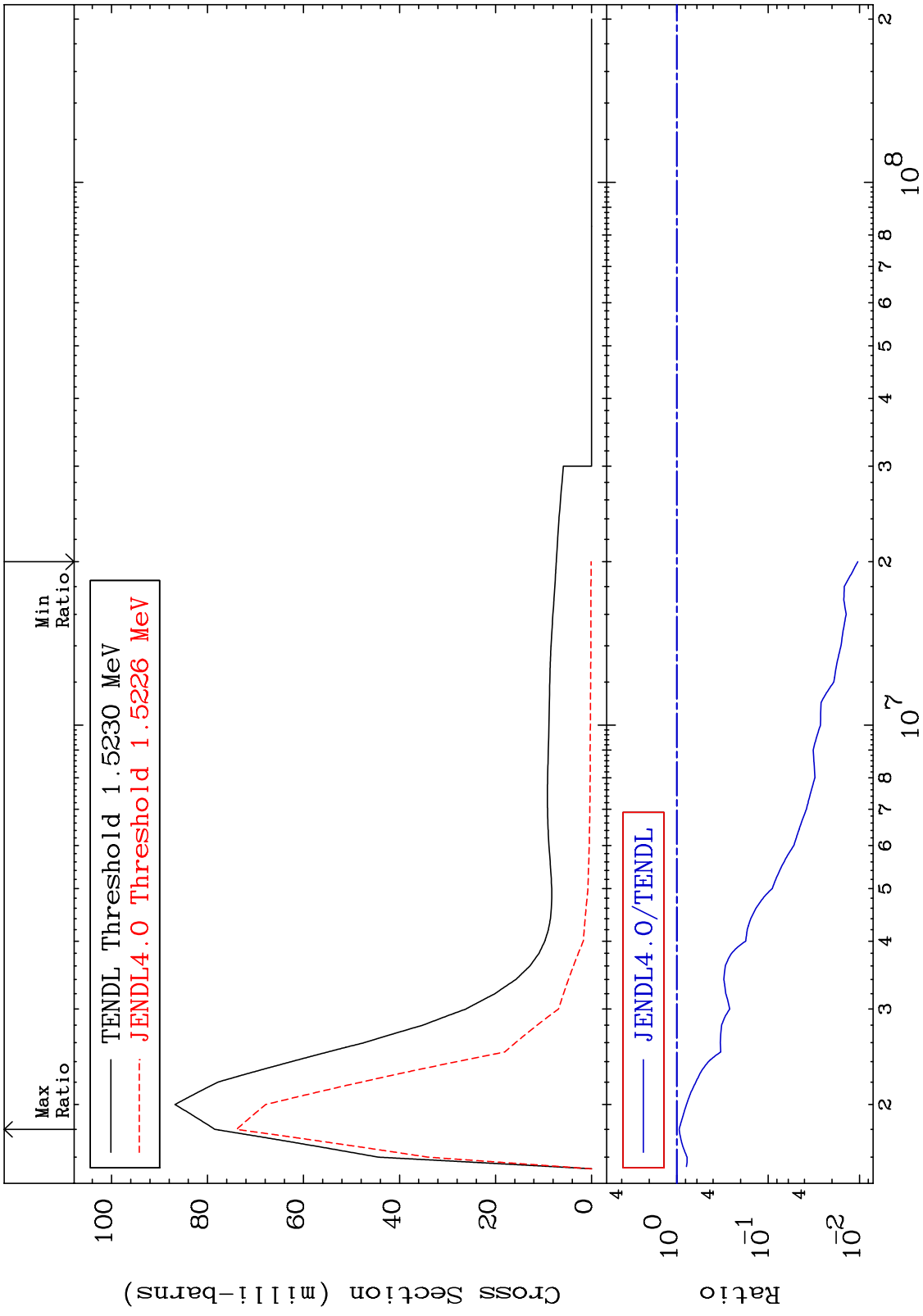
MAT 6837

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

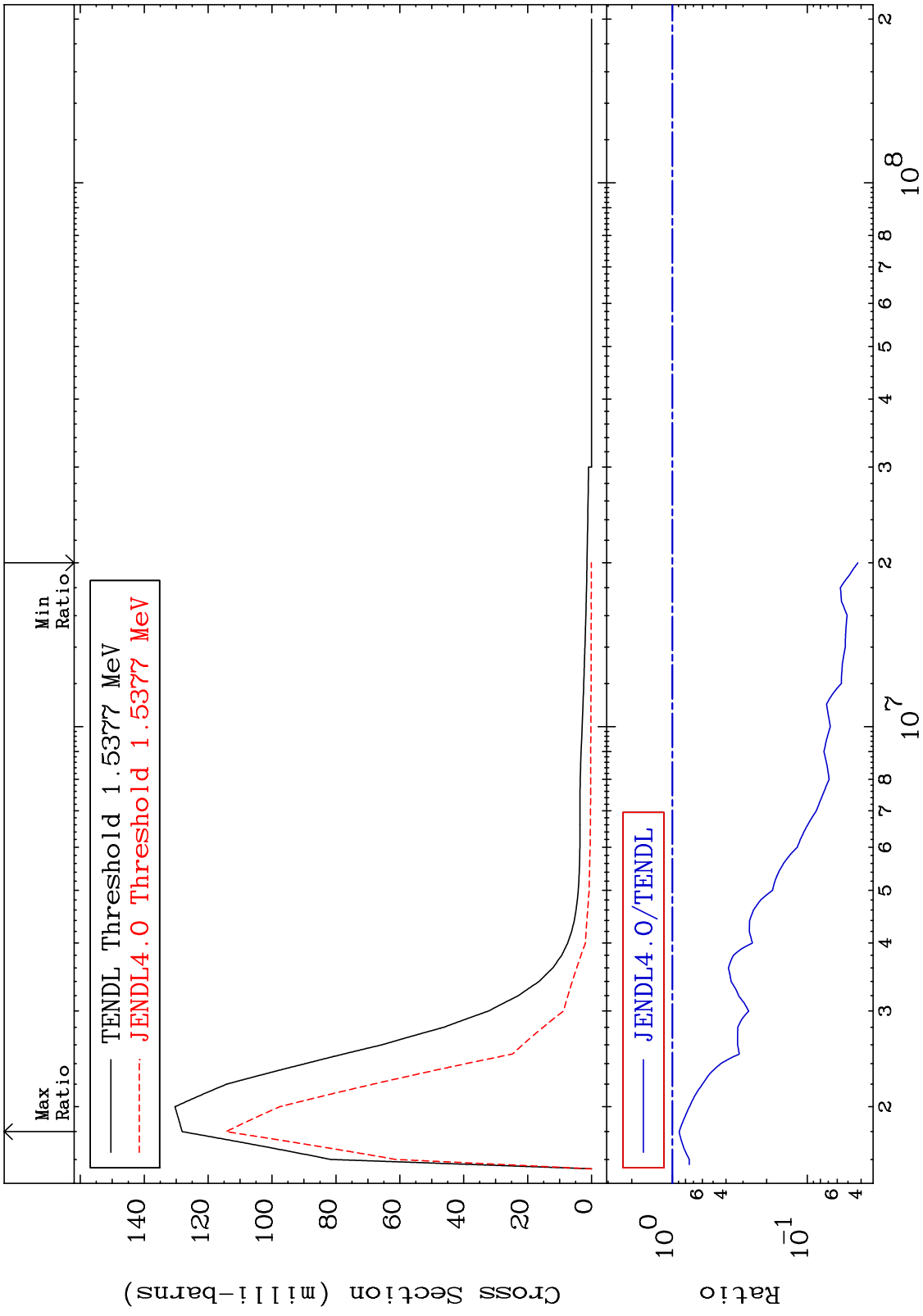
68-Er-166
-65.24 To 9999. %



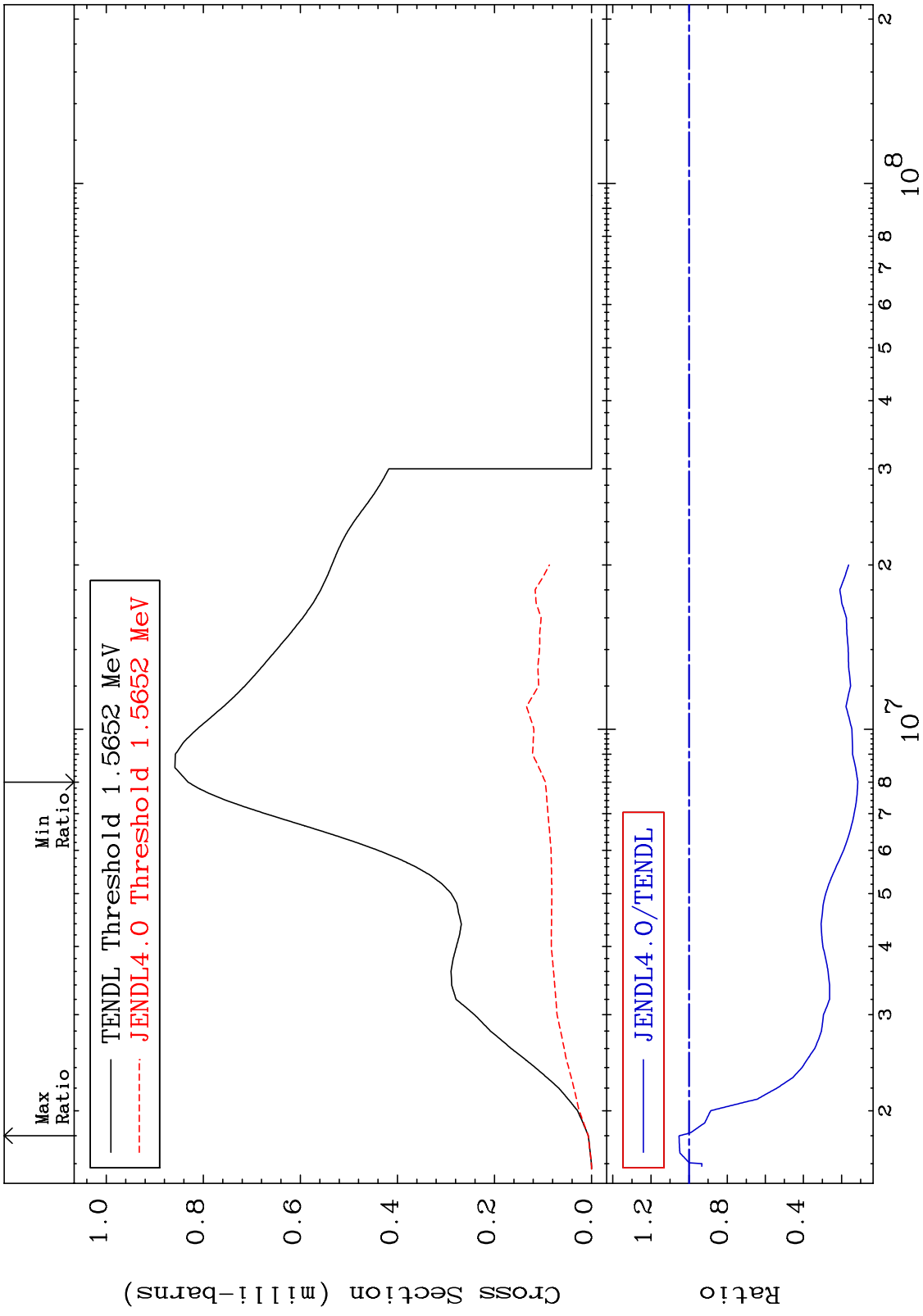
MAT 6837 MT= 64 (n,n') Level Cross Section 68-Er-166 -98.96 To -5.758%



MAT 6837 MT= 65 (n,n') Level Cross Section 68-Er-166 -95.78 To -10.72%



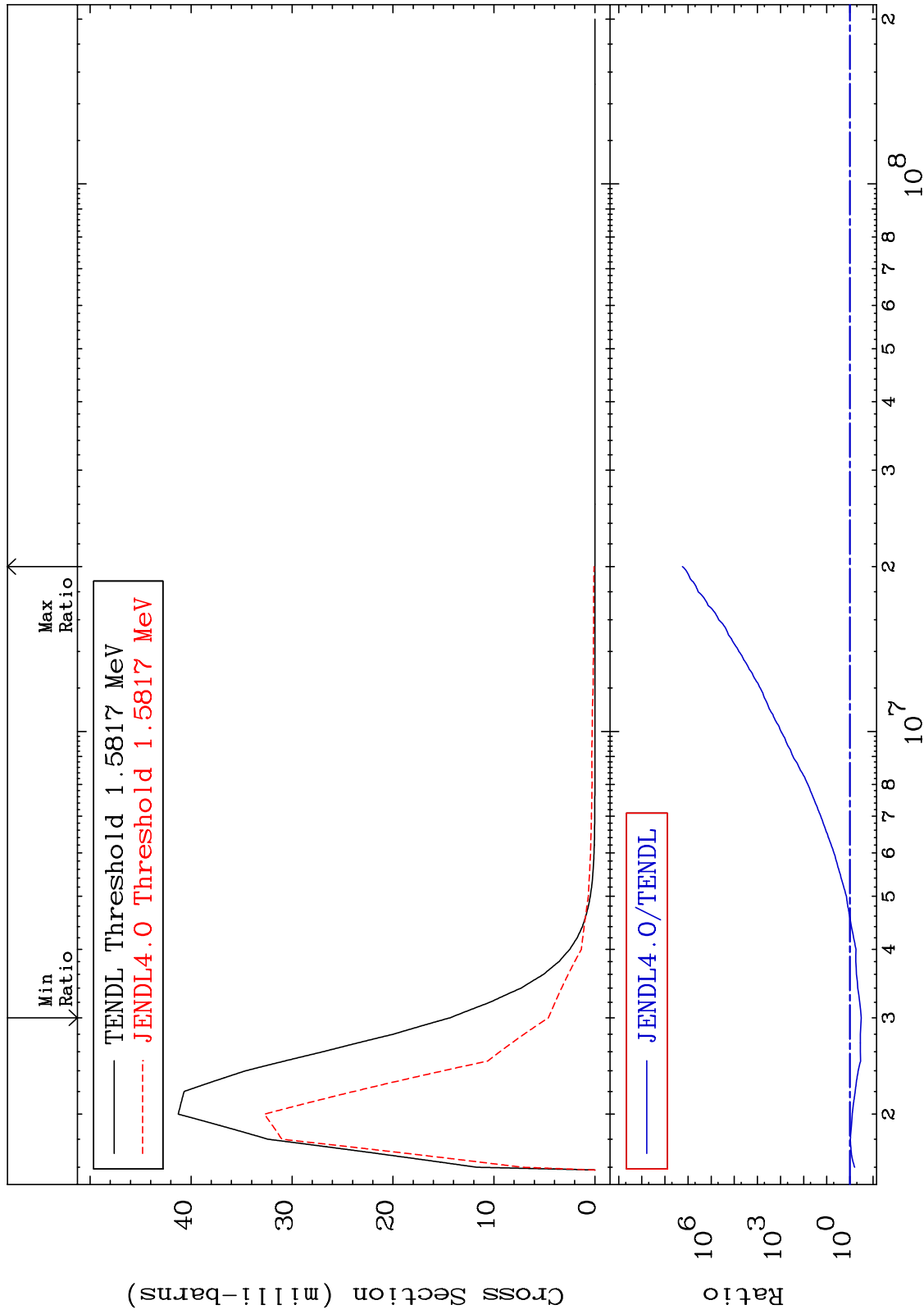
MAT 6837 MT= 66 (n,n') Level Cross Section 68-Er-166 -88.56 To 5.263 %



MAT 6837

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

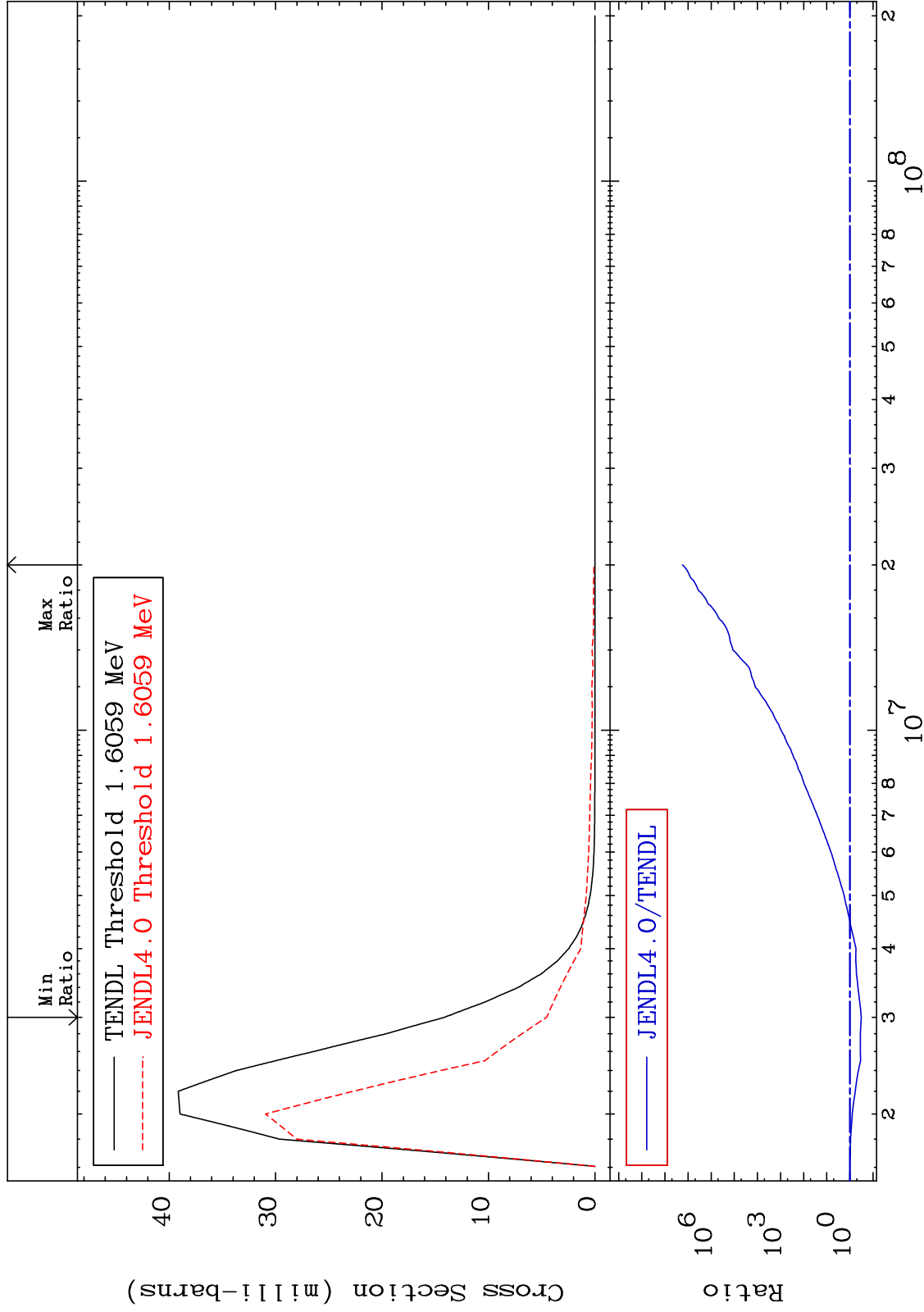
68-Er-166
-67.91 To 9999. %



MAT 6837

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

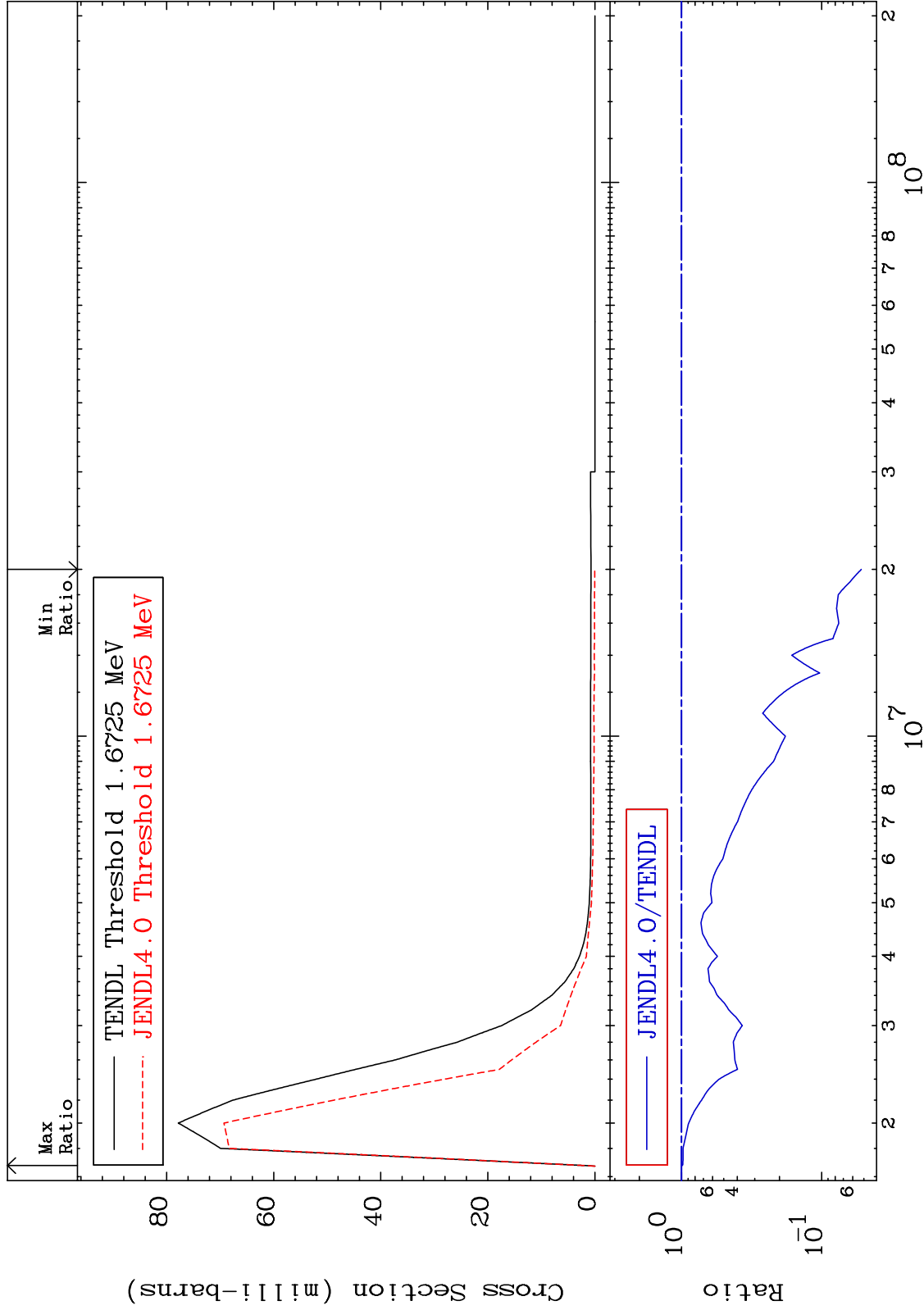
68-Er-166
-67.96 To 9999. %



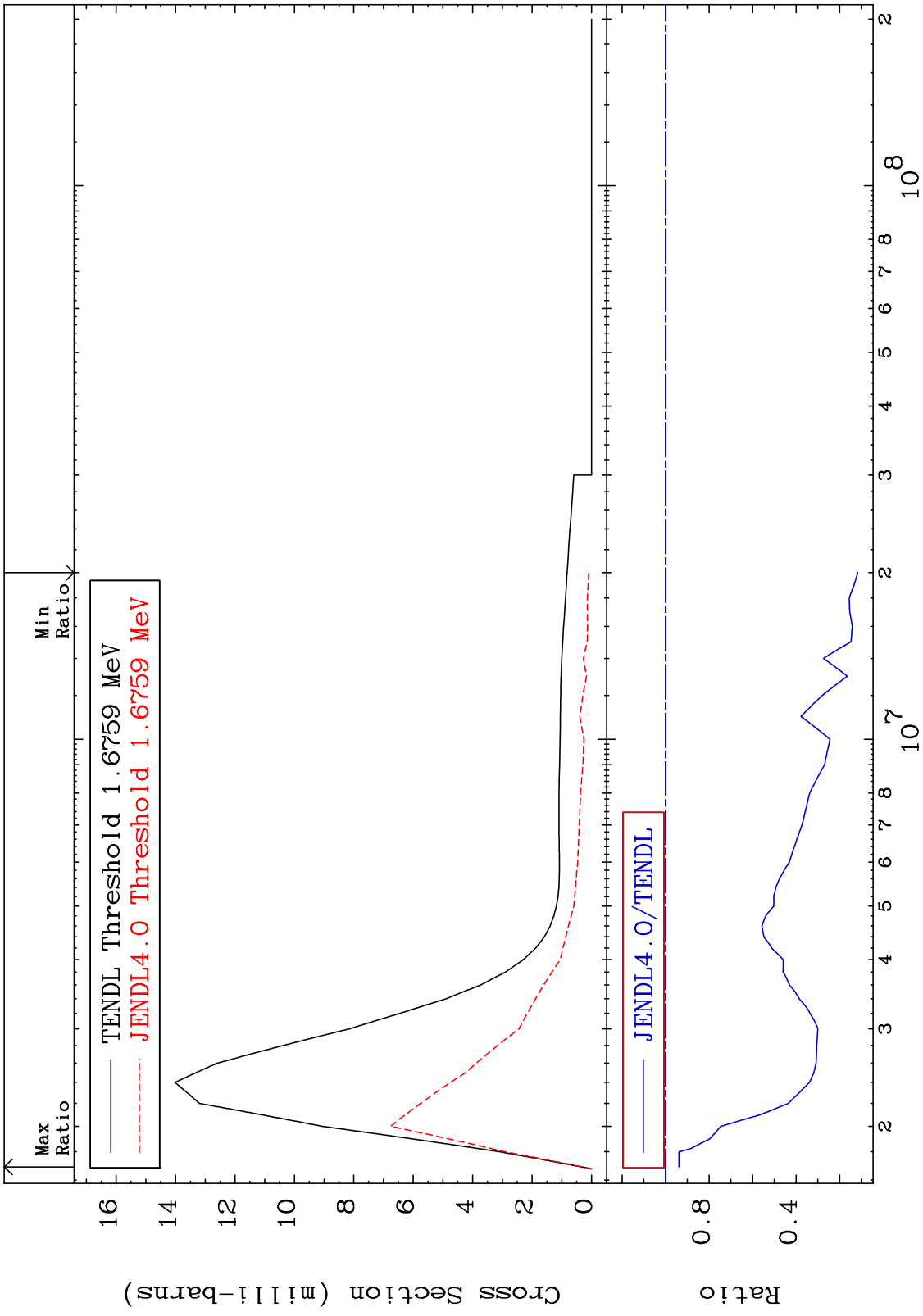
MAT 6837

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

68-Er-166
-94.79 To -1.435%



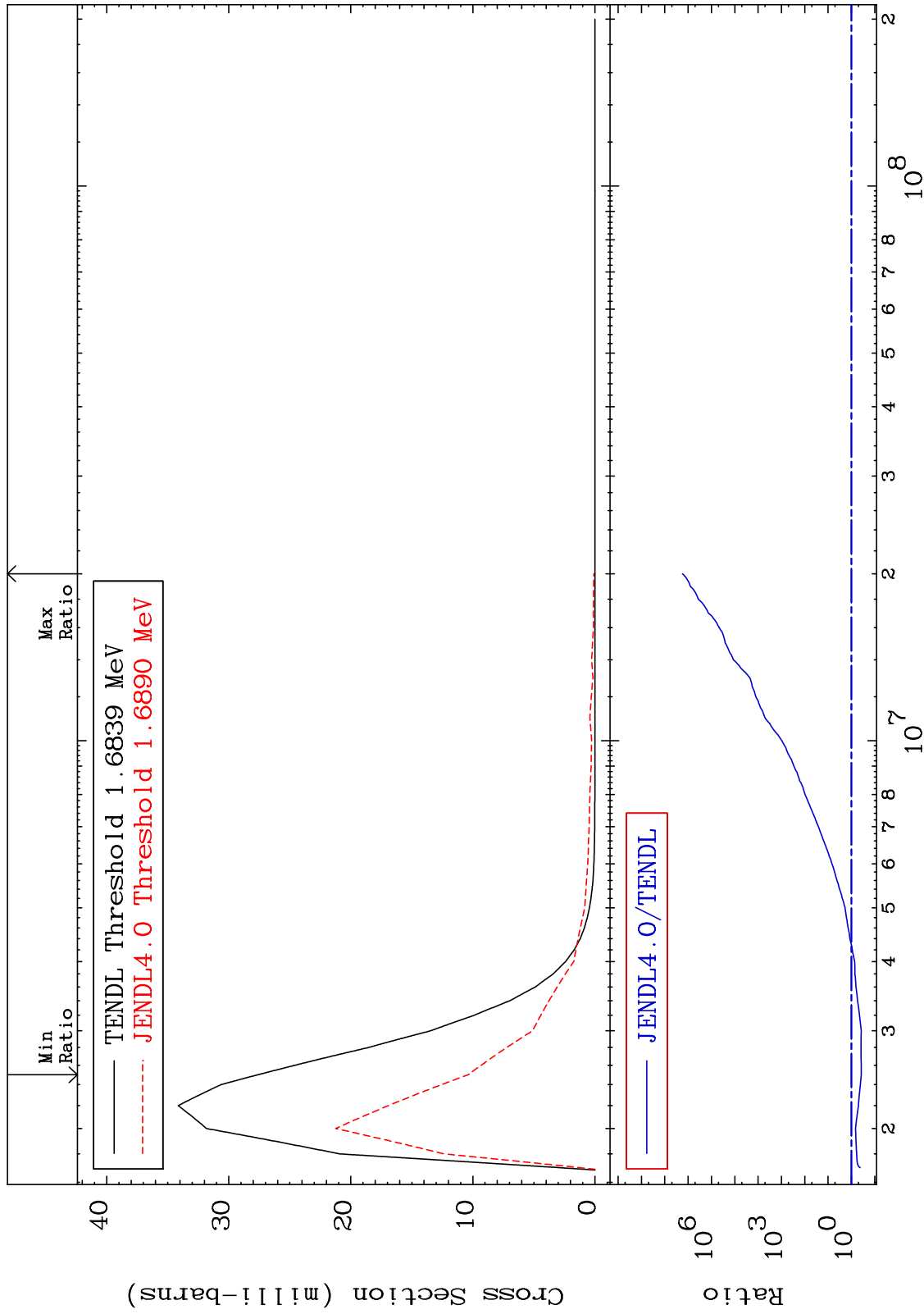
MAT 6837 MT= 70 (n,n') Level Cross Section 68-Er-166 -88.41 To -6.180%



MAT 6837

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

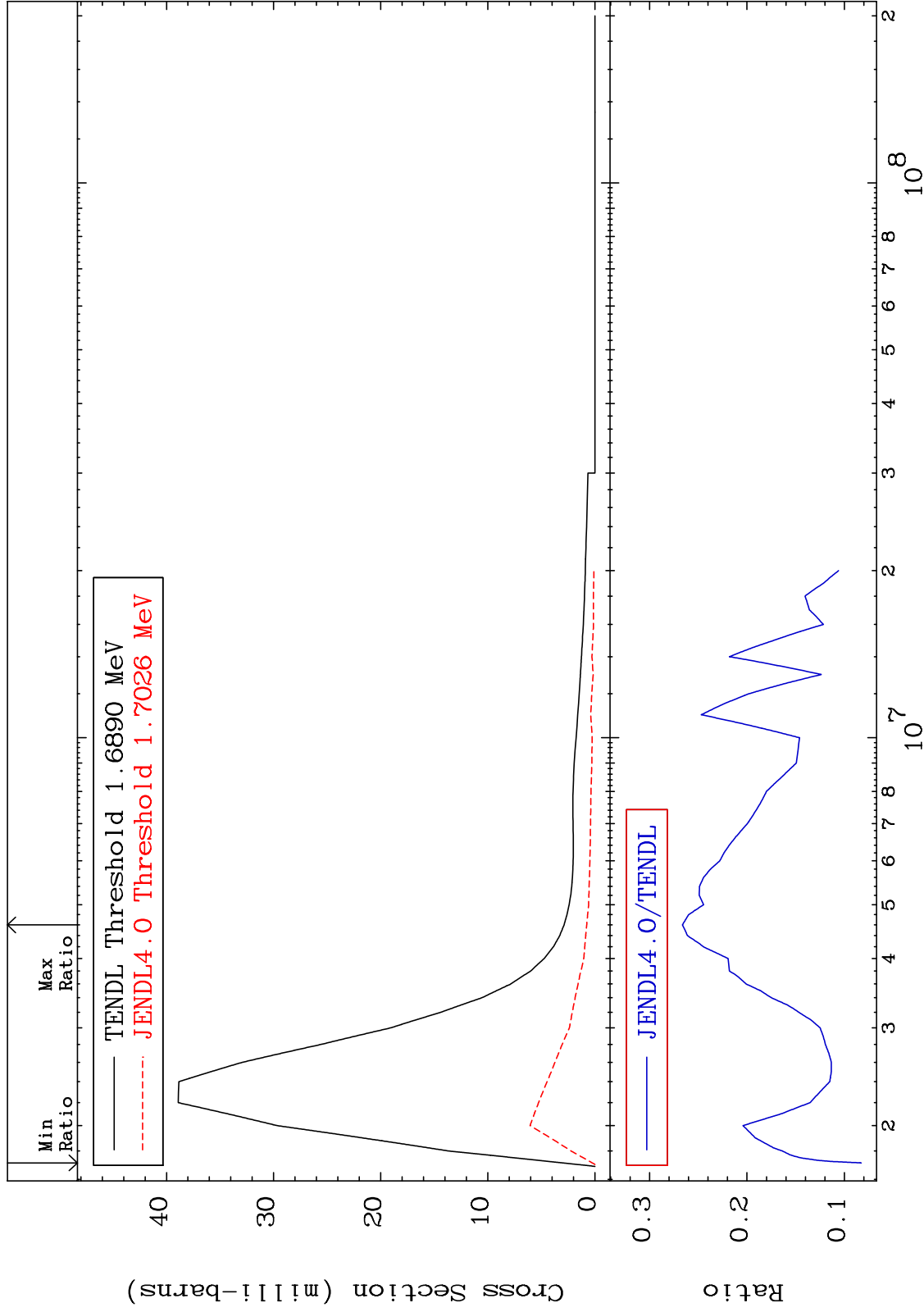
68-Er-166
-62.39 To 9999. %



MAT 6837

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

68-Er-166
-91.73 To -73.38%

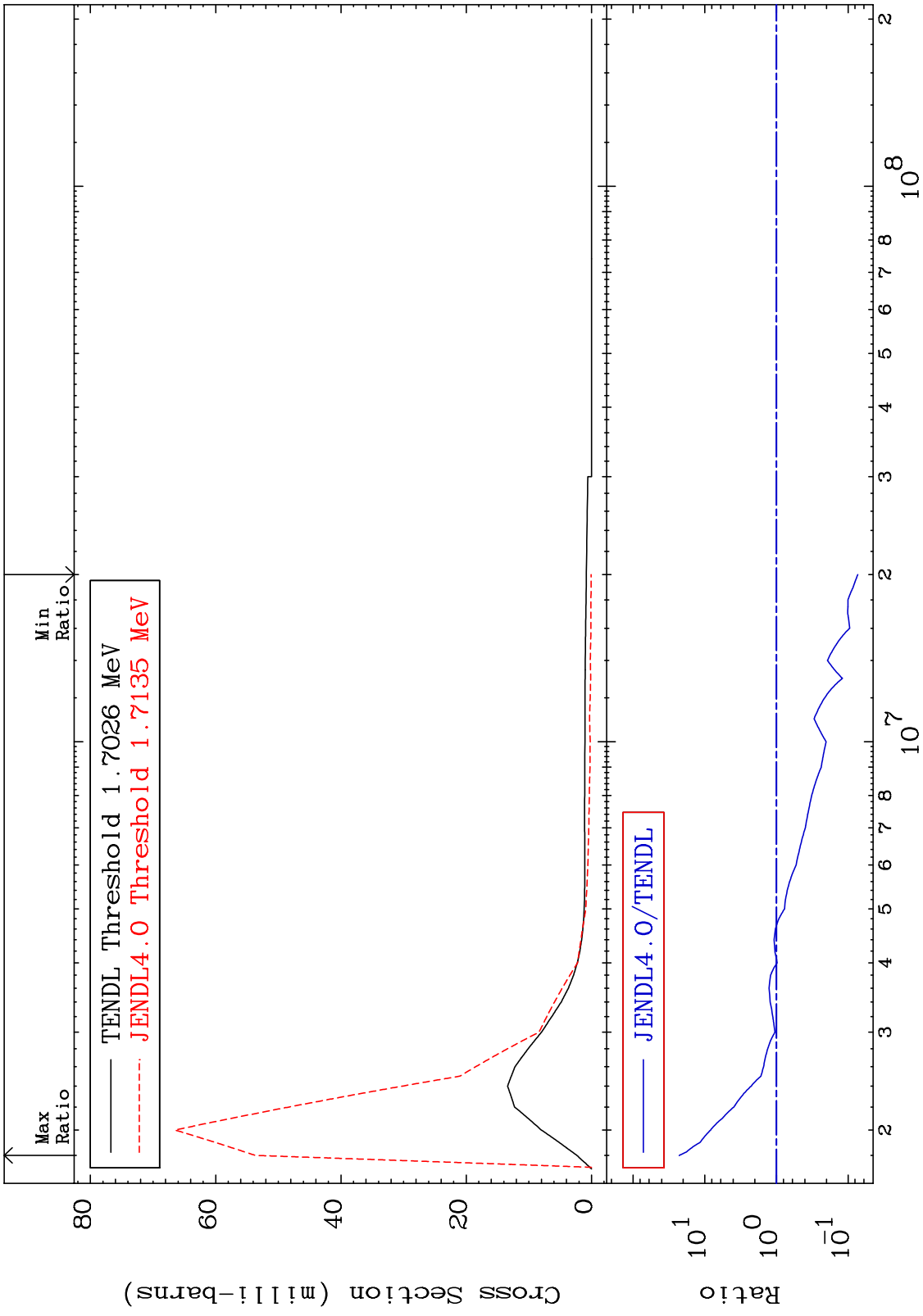


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Incident Energy (eV)

68-Er-166

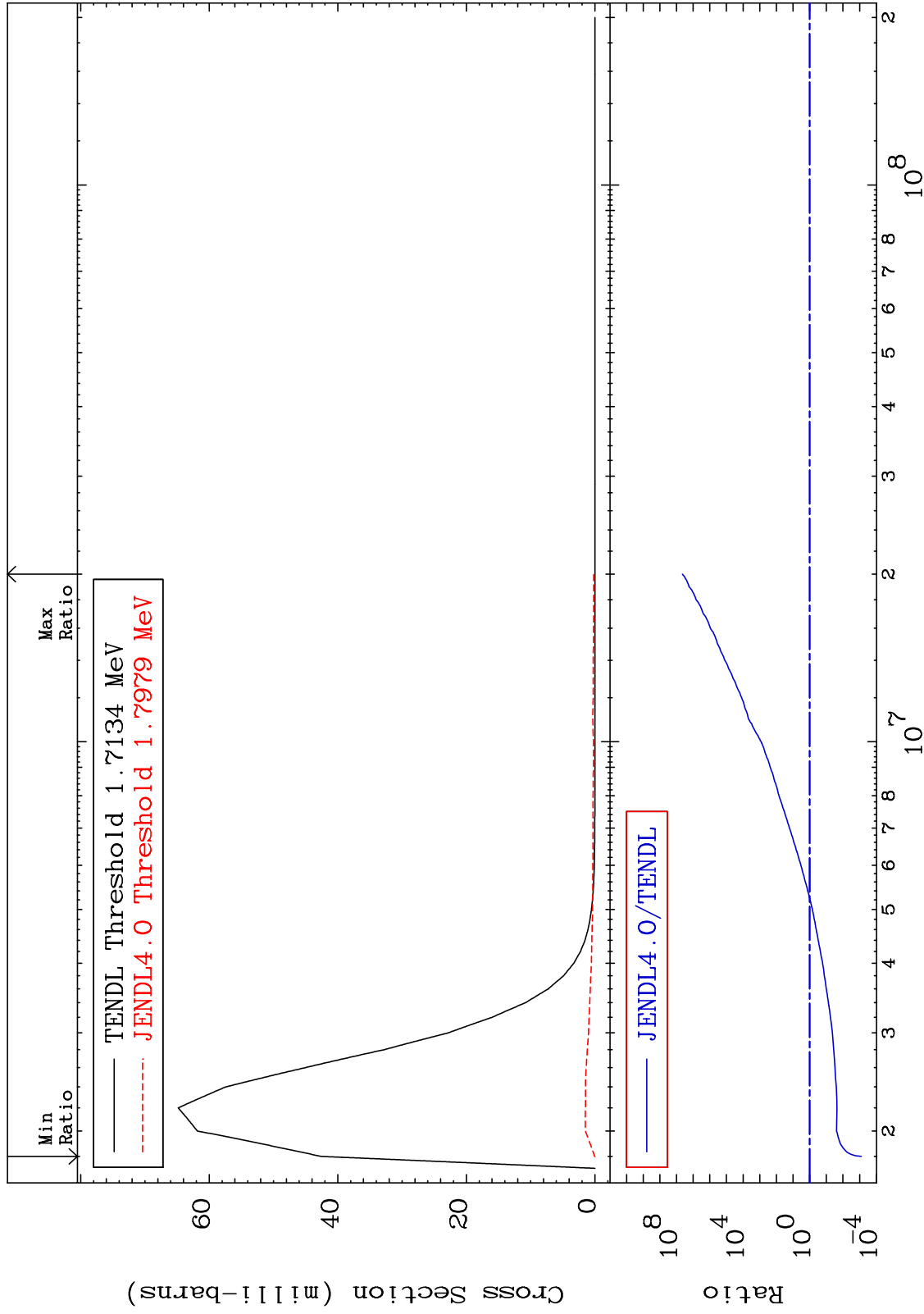
MAT 6837 MT= 73 (n,n') Level Cross Section 68-Er-166 -92.68 To 2184. %

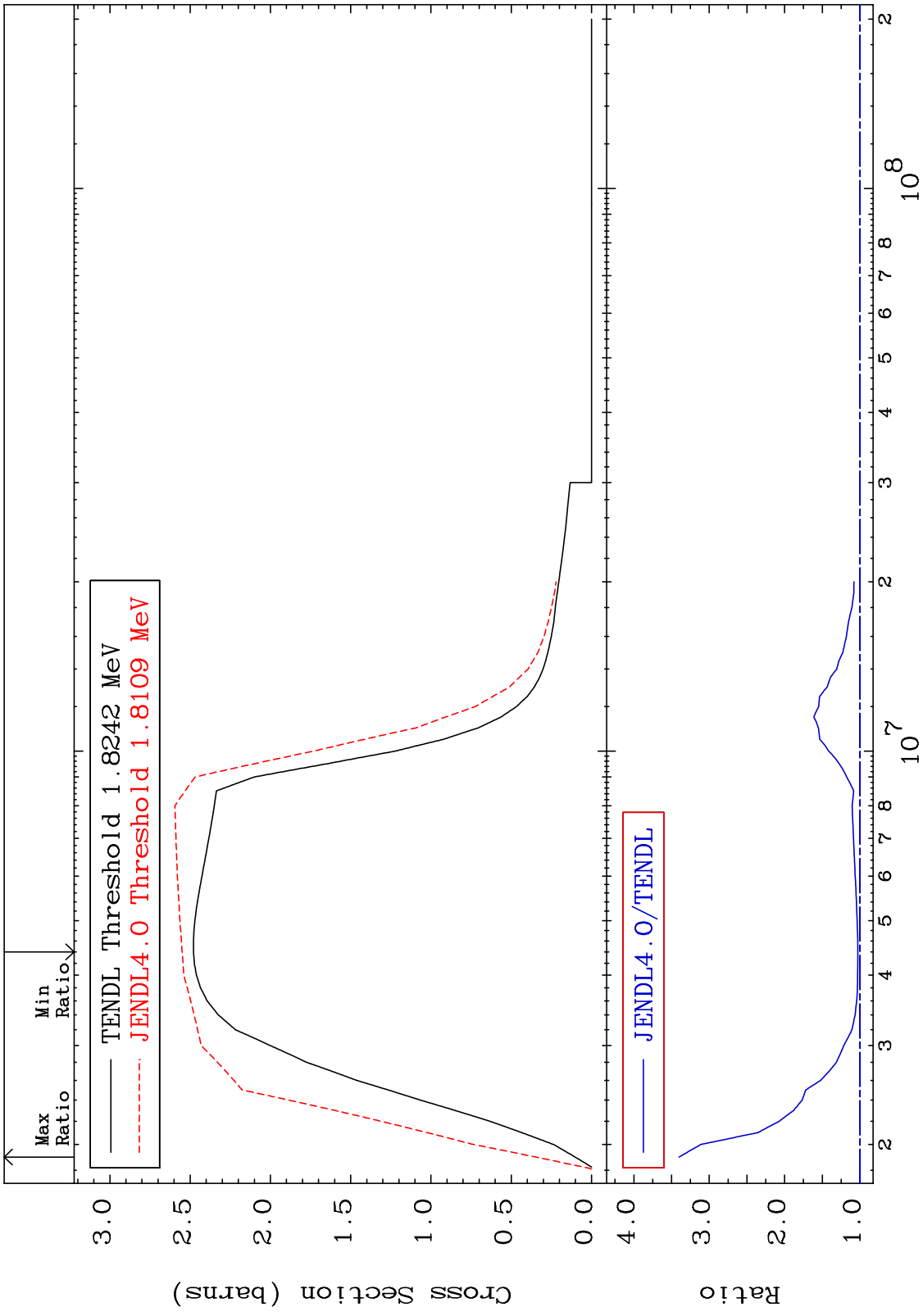


MAT 6837

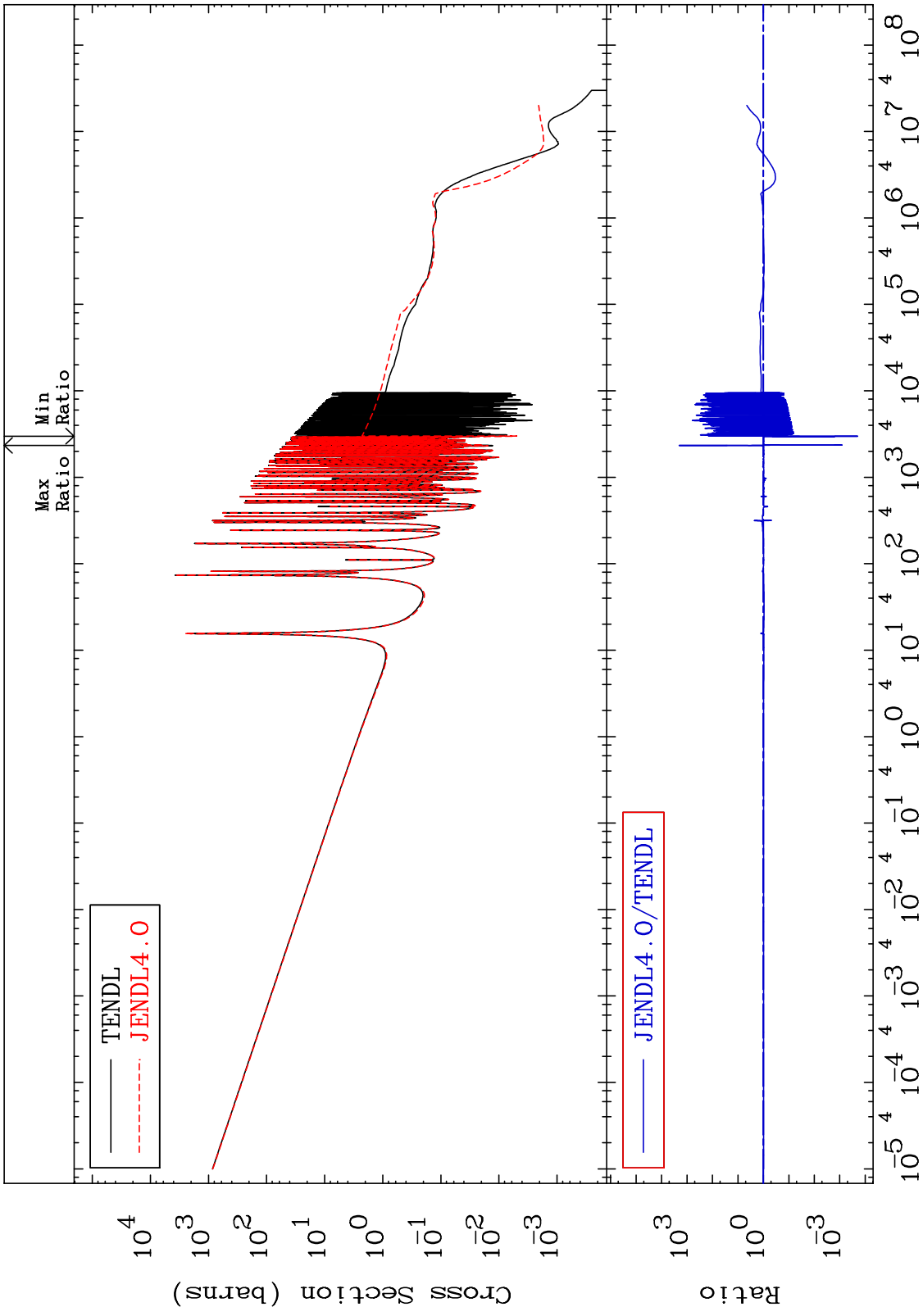
MT= 74 (n,n') Level
Cross Section

68-Er-166
-99.92 To 9999. %





MAT 6837 (n, γ) Cross Section 68-Er-166 -99.98 To 9999. %



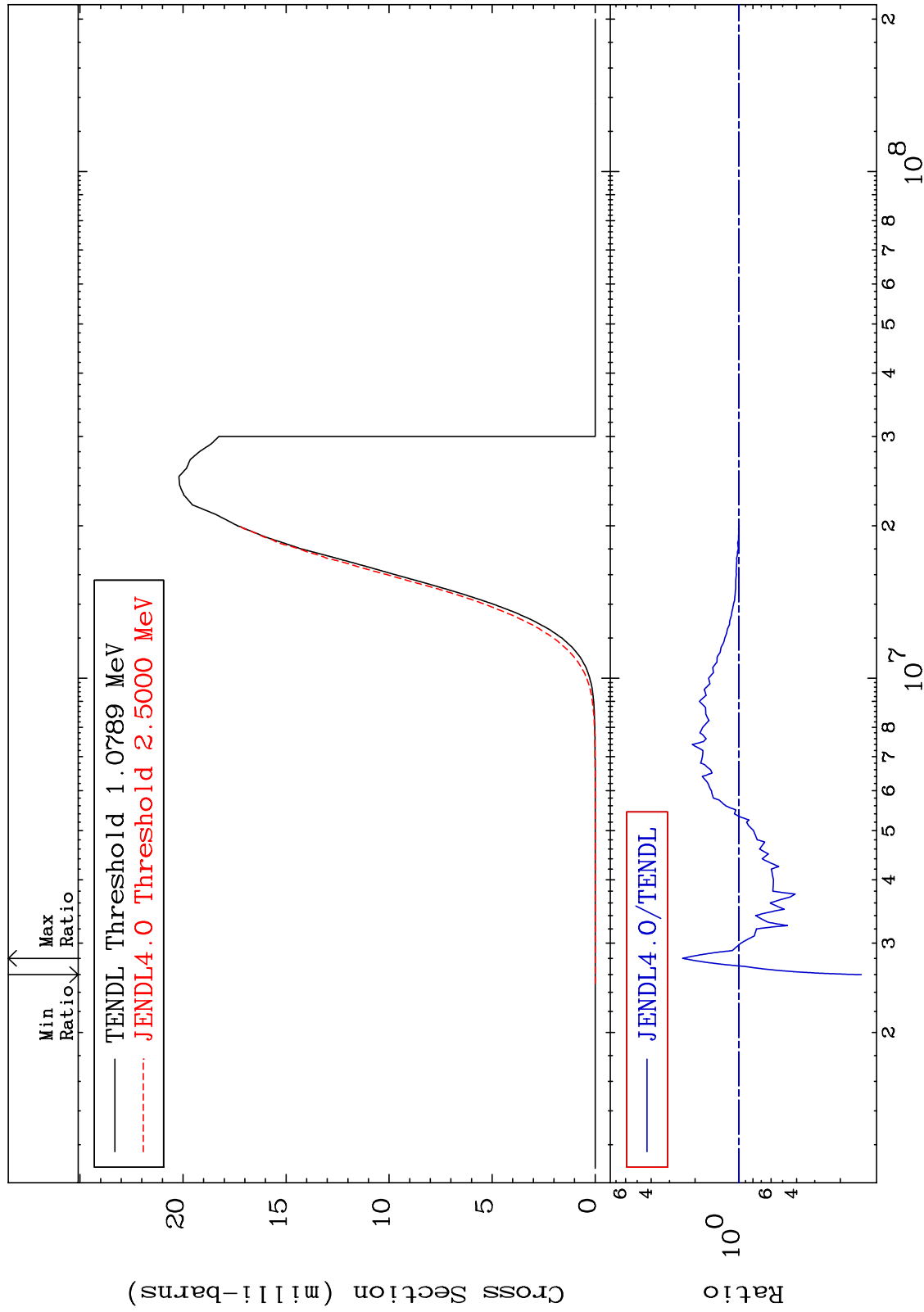
MAT 6837

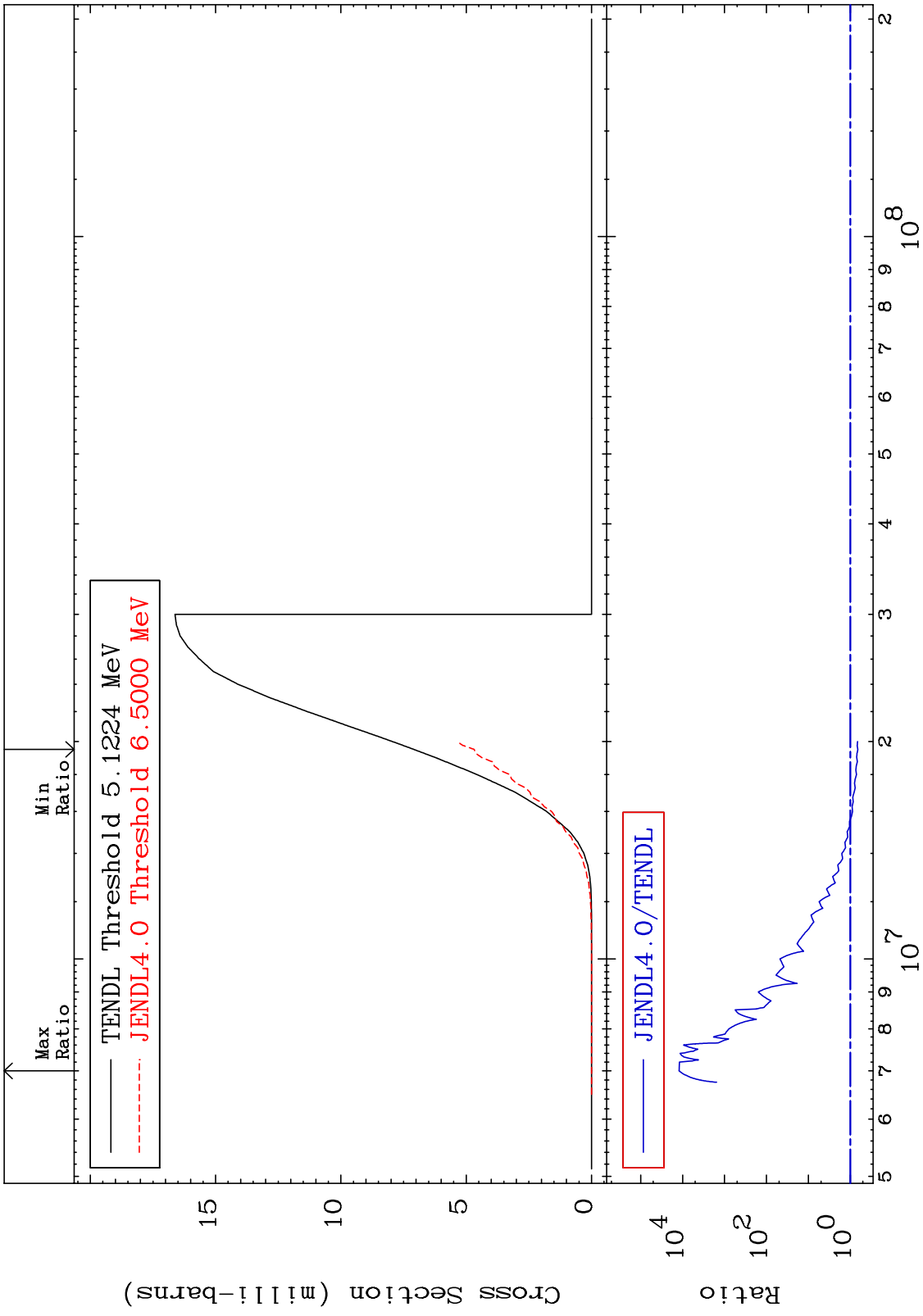
(n,p)

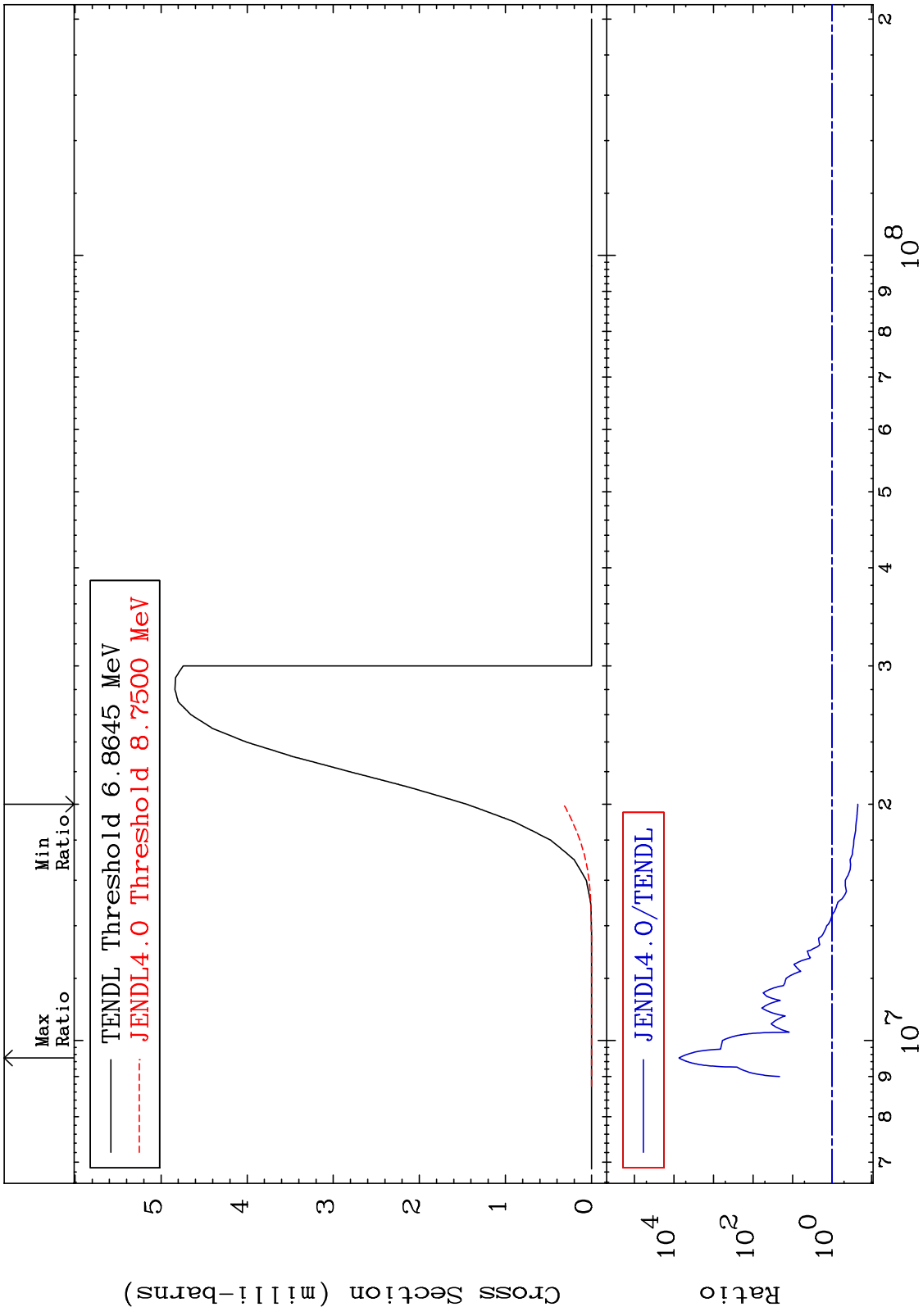
68-Er-166

Cross Section

-85.64 To 143.2 %







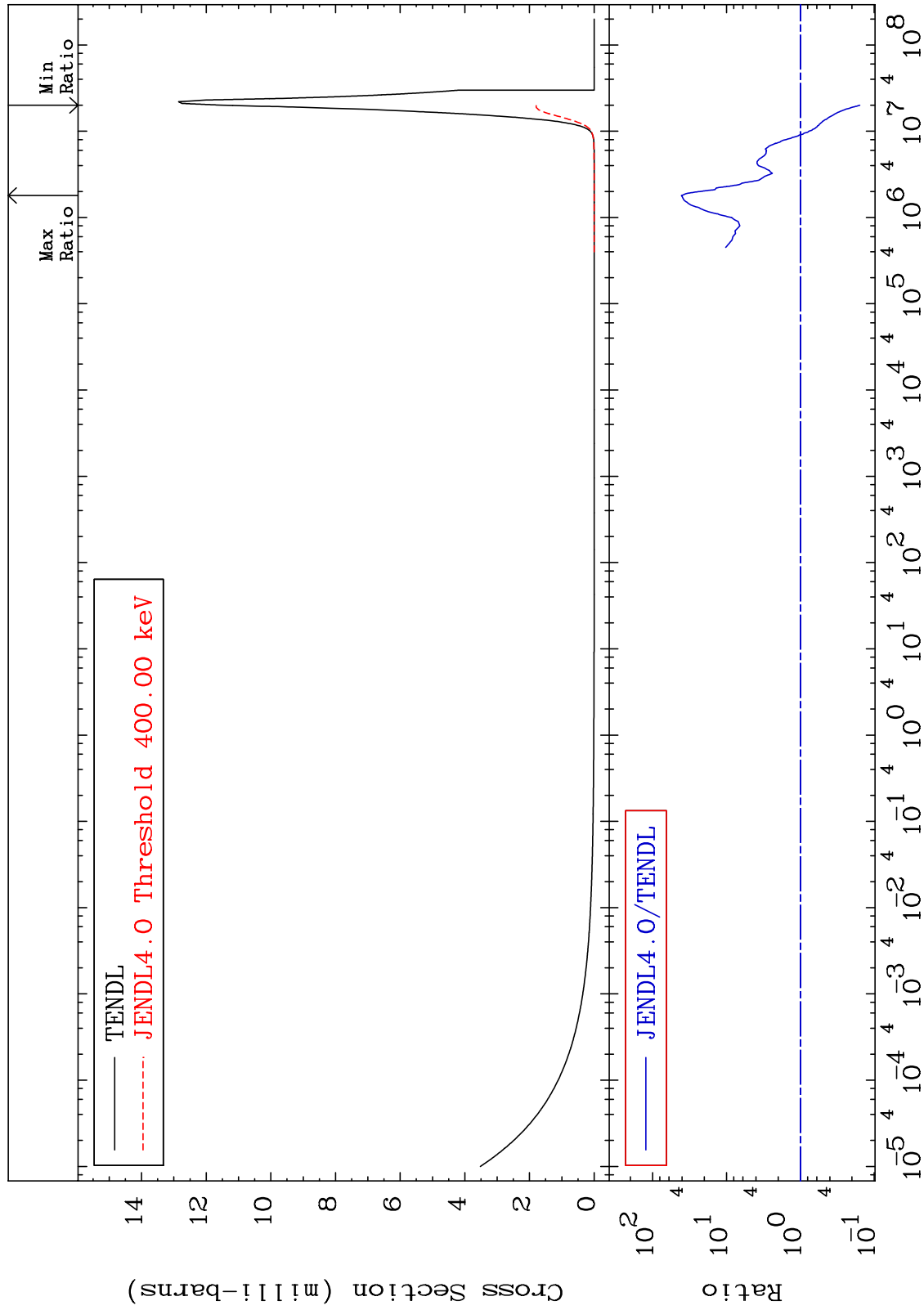
MAT 6837

(n, α)

68-Er-166

Cross Section

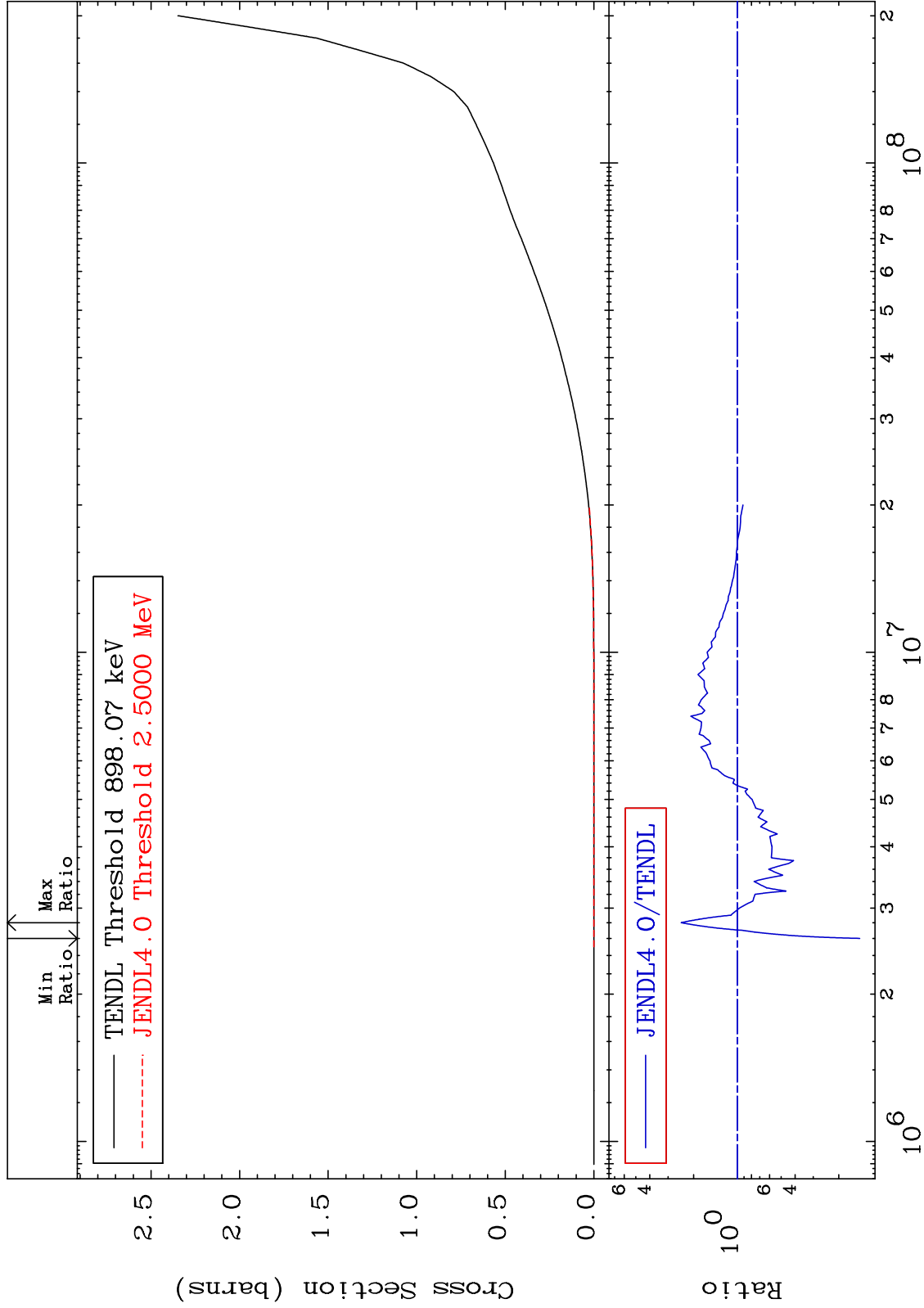
-84.31 To 3974. %



MAT 6837

Hydrogen Production
Cross Section

68-Er-166
-85.64 To 143.2 %



39

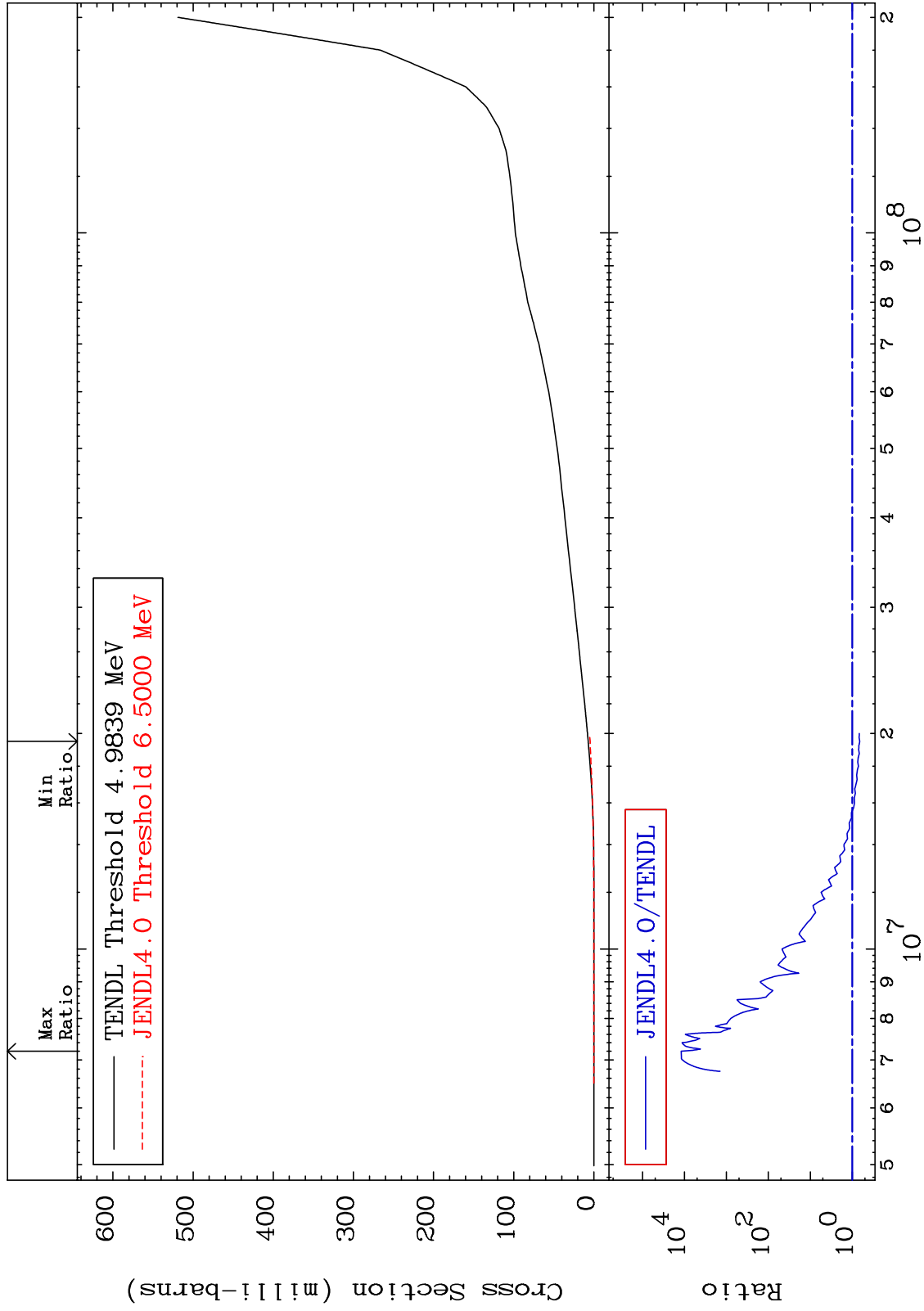
Incident Energy (eV)

68-Er-166

MAT 6837

Deuterium Production
Cross Section

68-Er-166
-33.77 To 9999. %



40

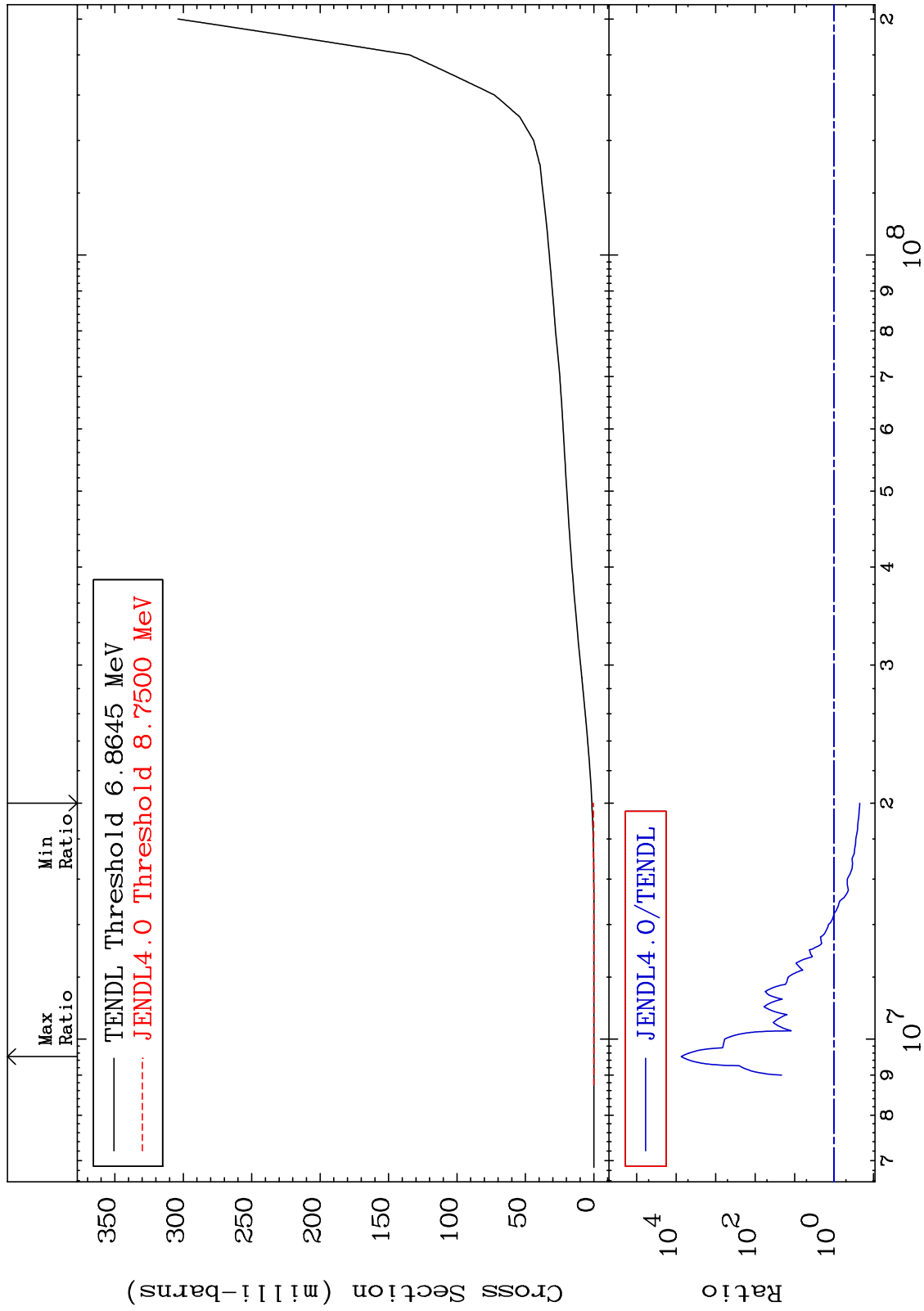
Incident Energy (eV)

68-Er-166

MAT 6837

Tritium Production
Cross Section

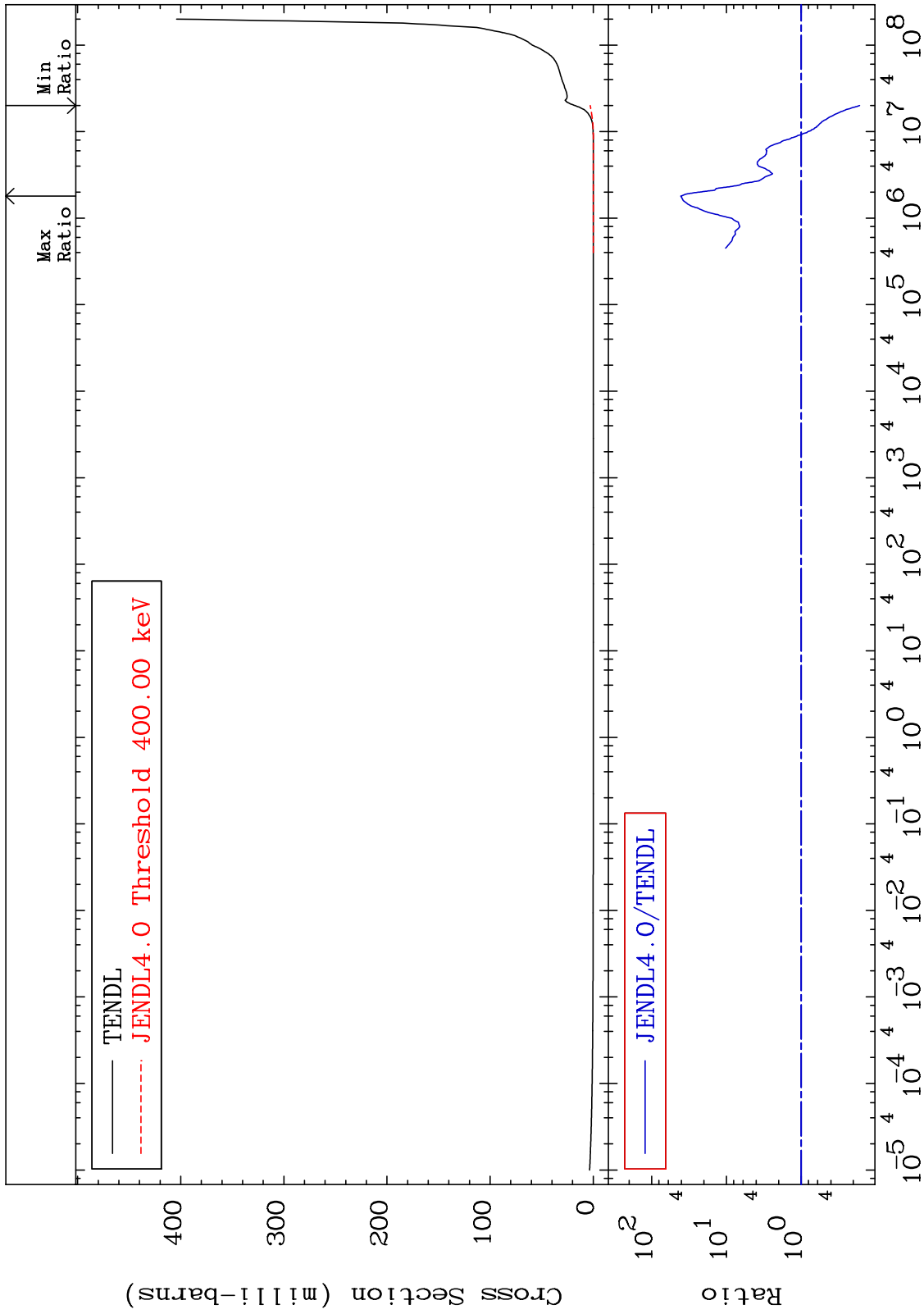
68-Er-166
-77.69 To 9999. %



MAT 6837

He-4 Production
Cross Section

68-Er-166
-83.52 To 3974. %

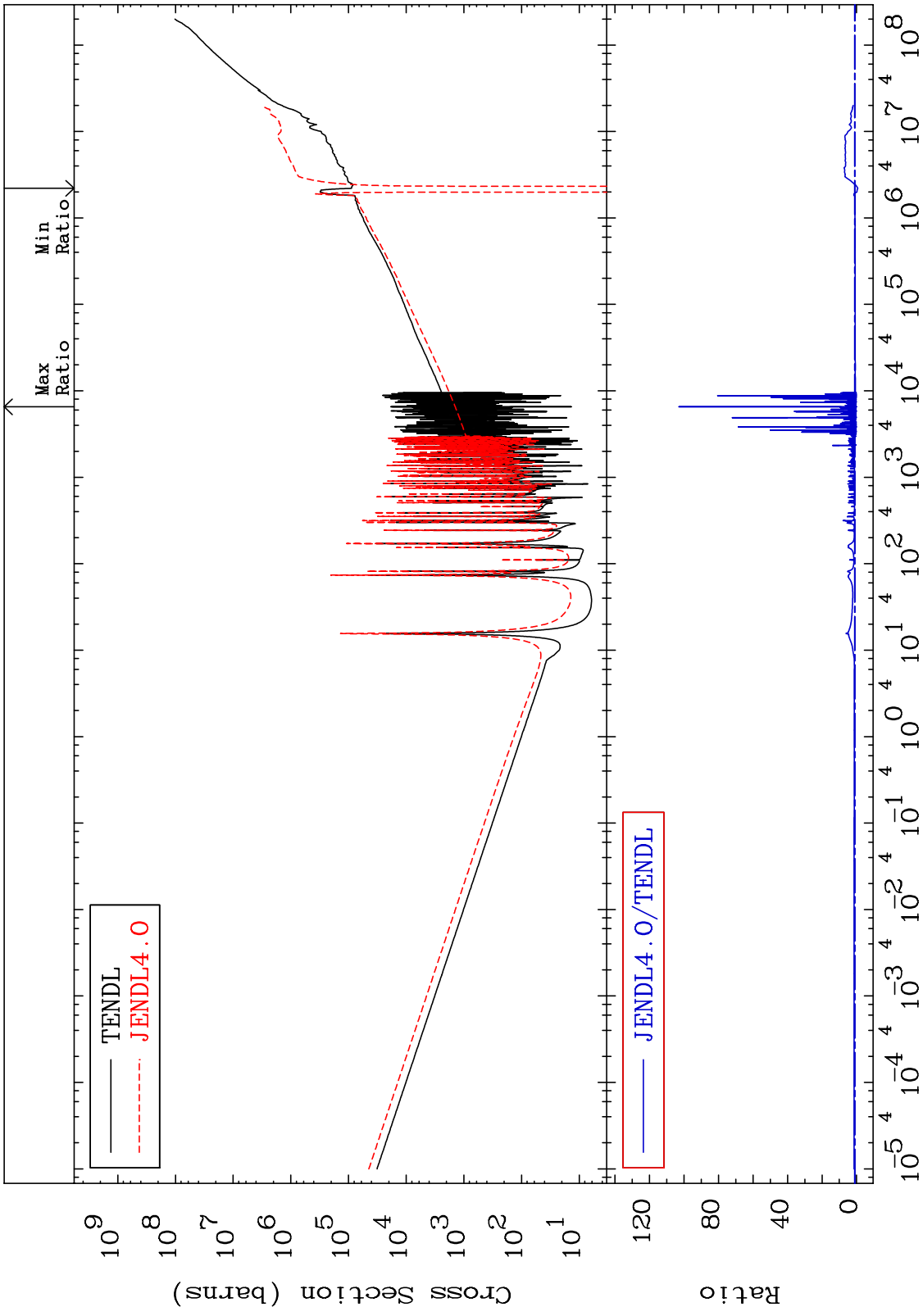


42

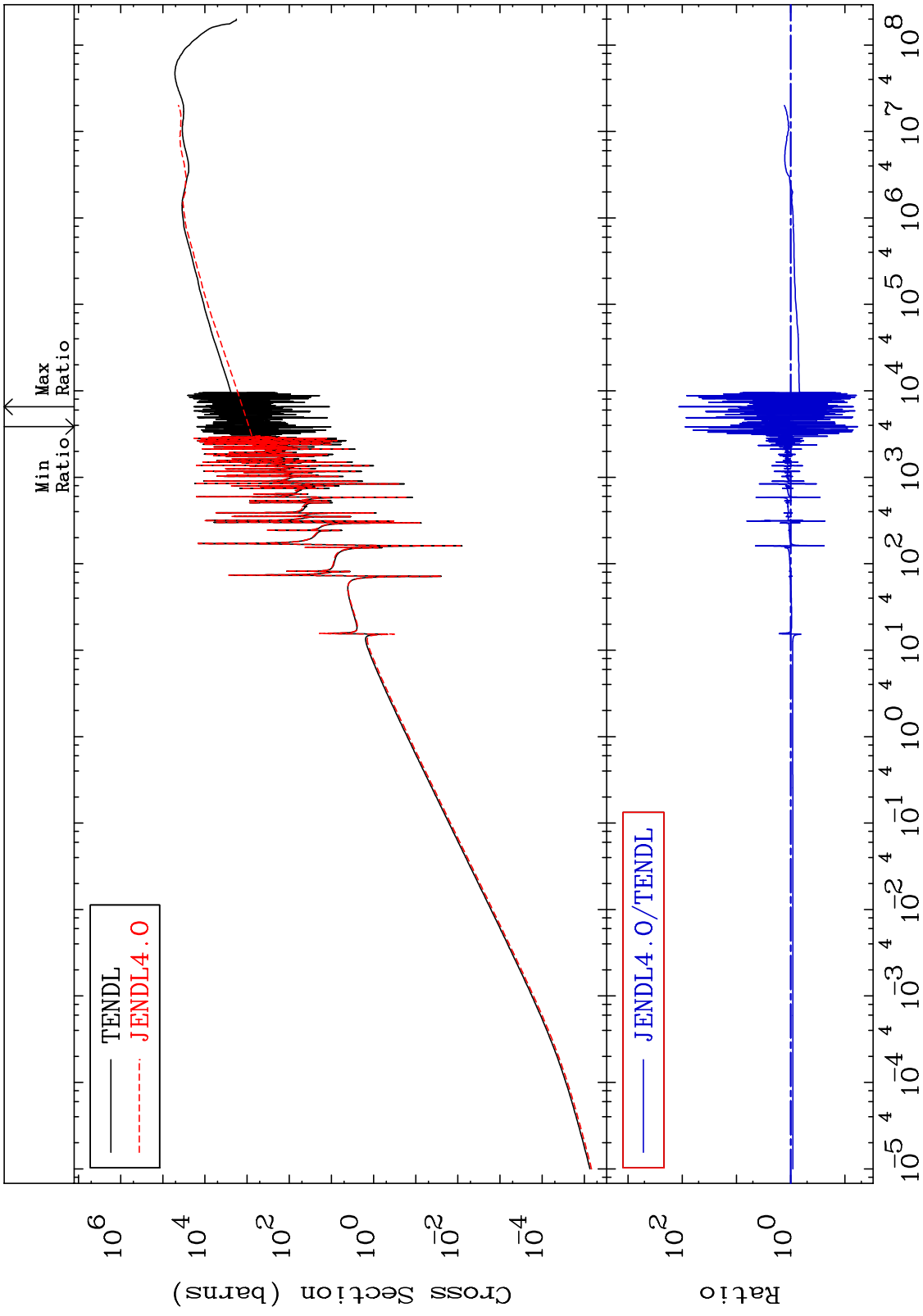
Incident Energy (eV)

68-Er-166

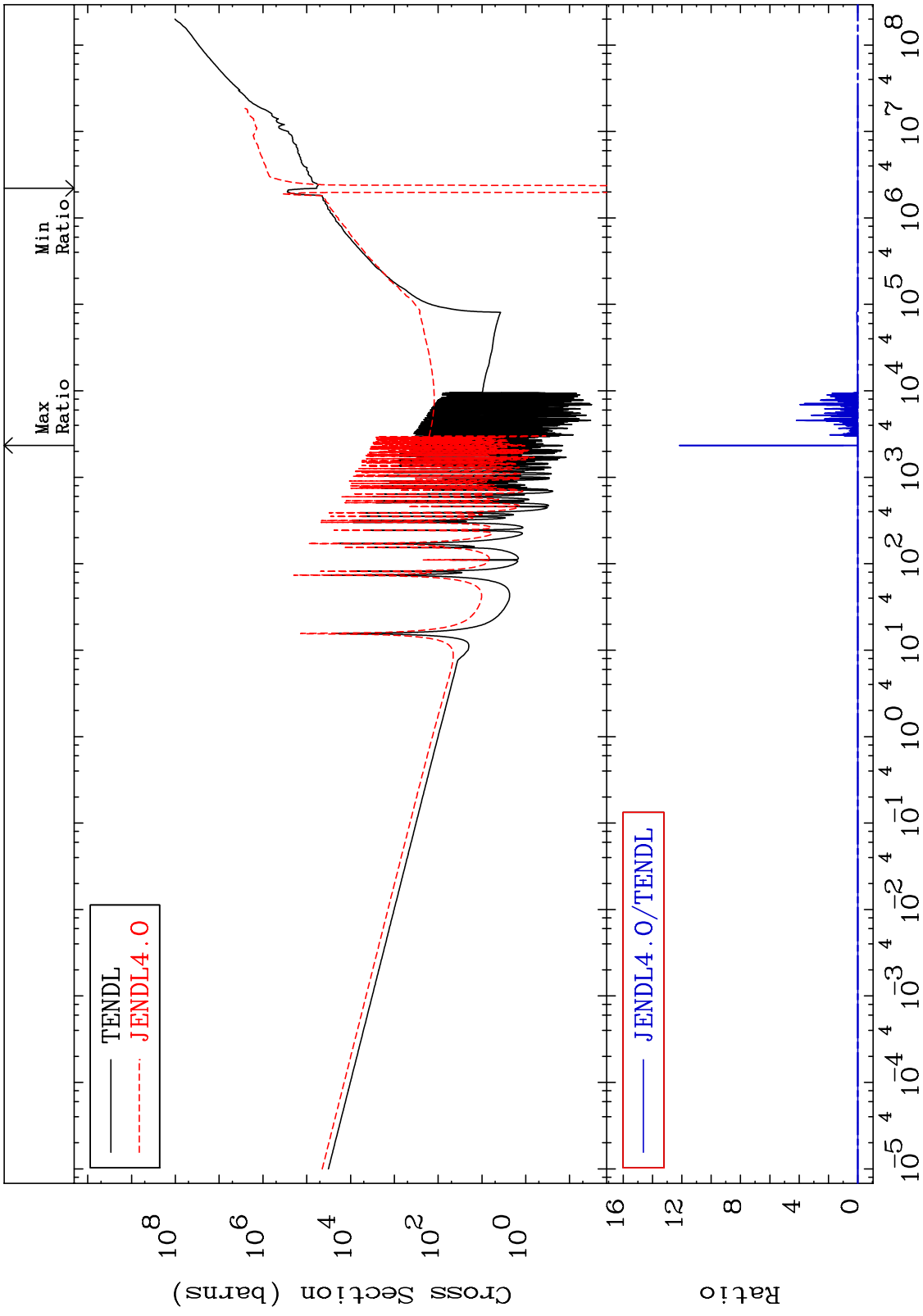
MAT 6837 Kerma total (eV-barns) Cross Section 68-Er-166 -173.8 To 9999. %



MAT 6837 Kerma elastic Cross Section 68-Er-166
 -94.22 To 9999. %



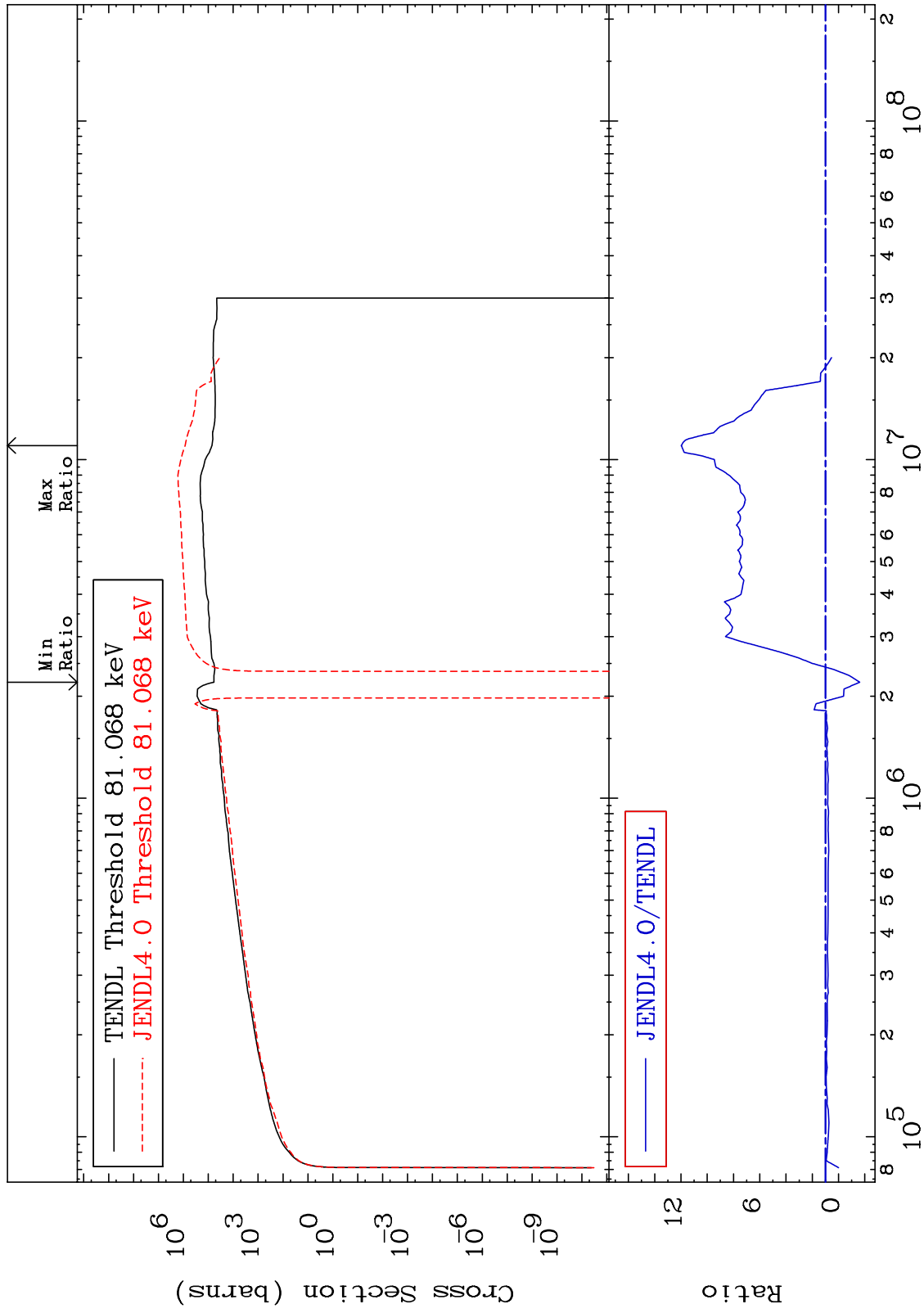
MAT 6837 Kerma non-elastic (all but mt2) 68-Er-166
 Cross Section -260.3 To 9999. %



MAT 6837

Kerma inelastic (mt51-91)
Cross Section

68-Er-166
-261.4 To 1098. %



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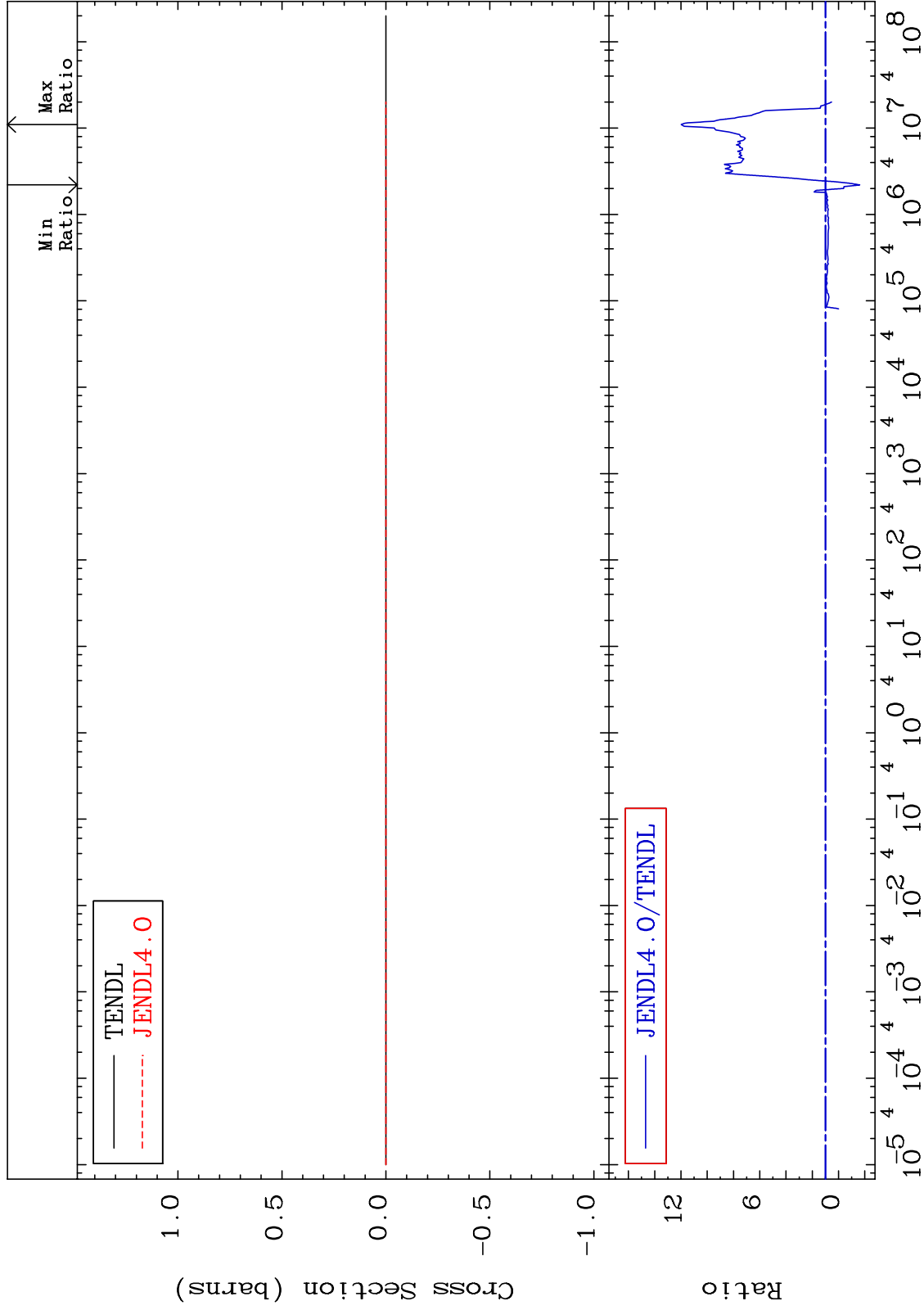
Incident Energy (eV)

68-Er-166

MAT 6837

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

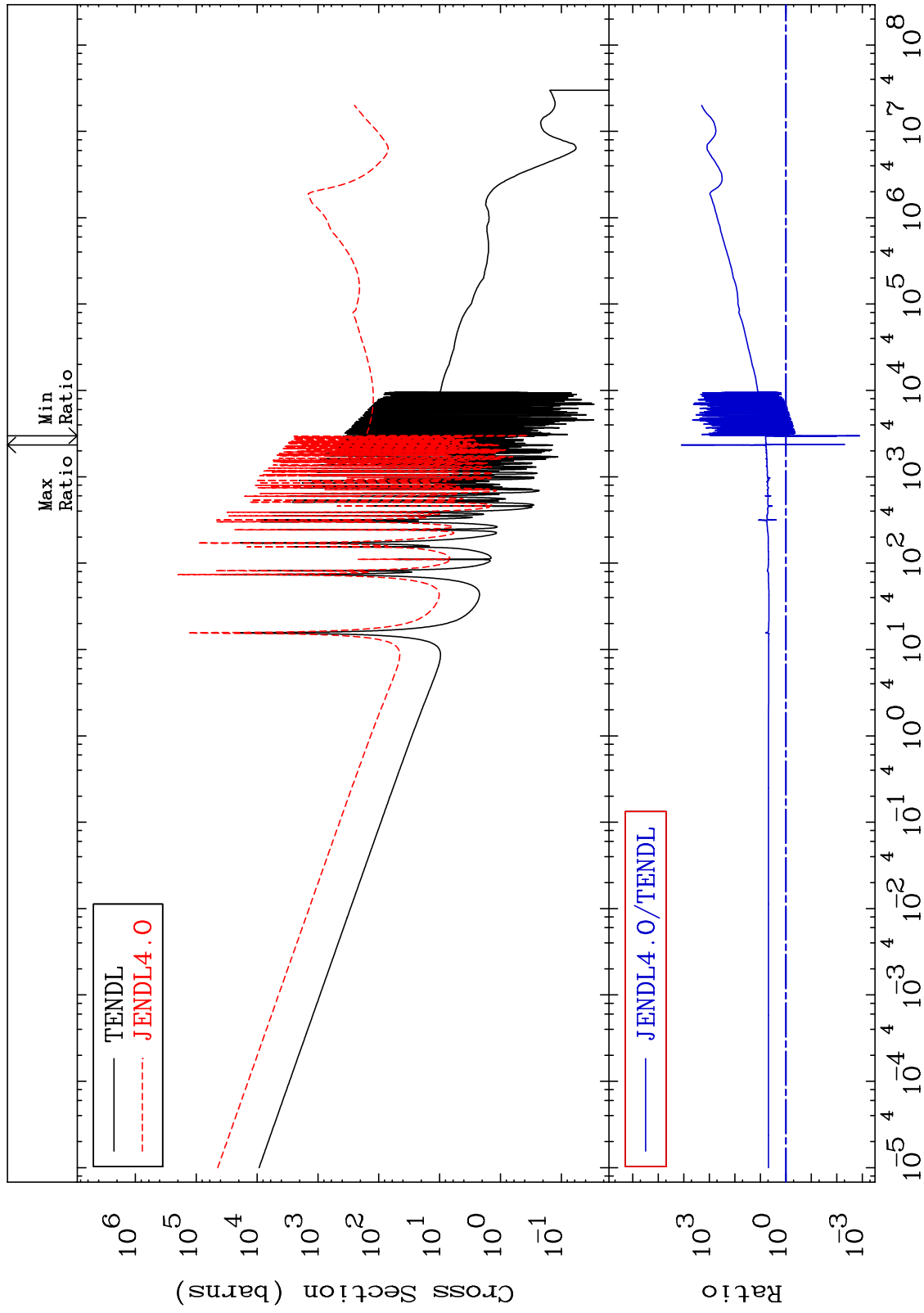
68-Er-166
-261.4 To 1098. %



MAT 6837

Kerma capture (mt102)
Cross Section

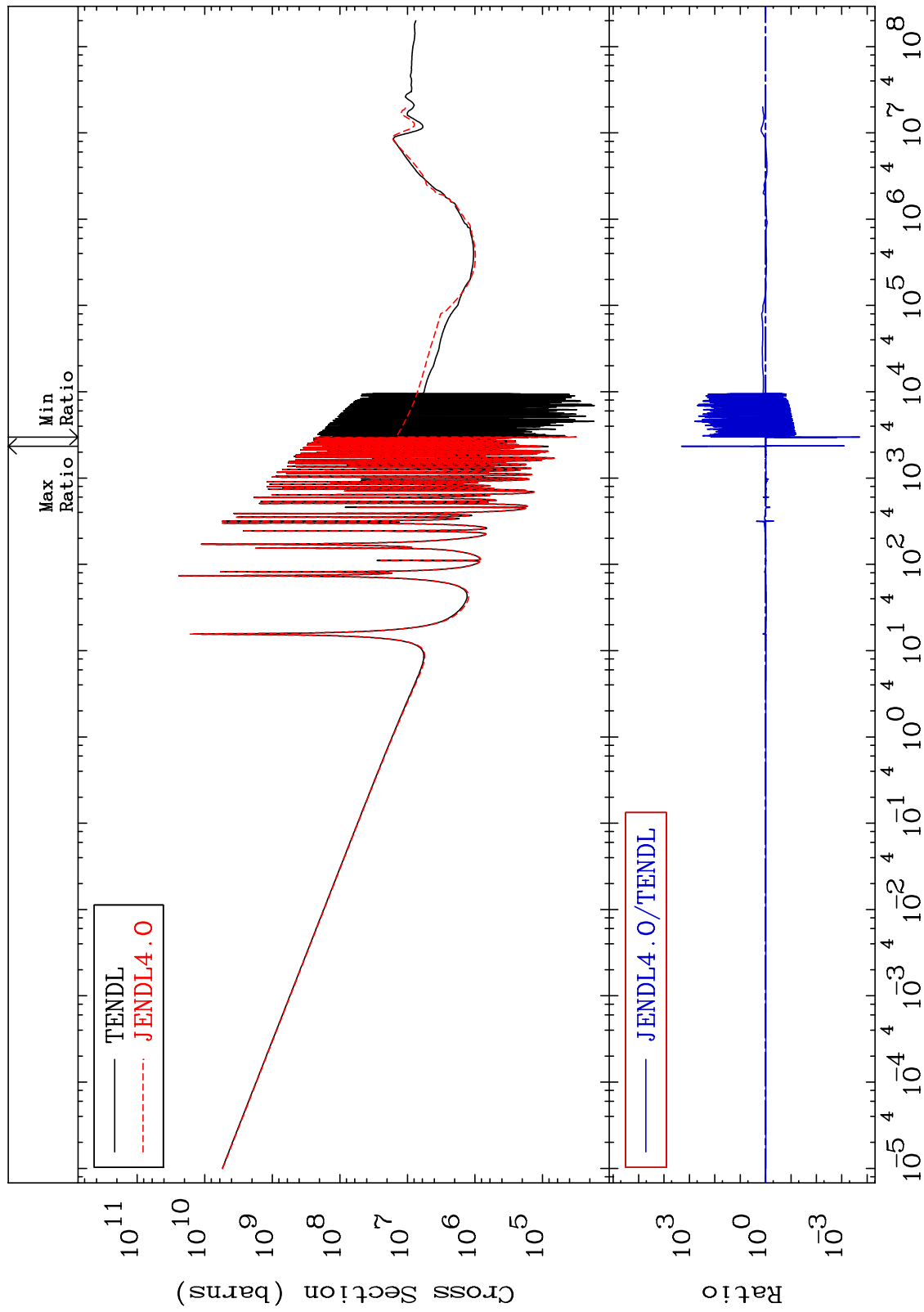
68-Er-166
-99.87 To 9999. %



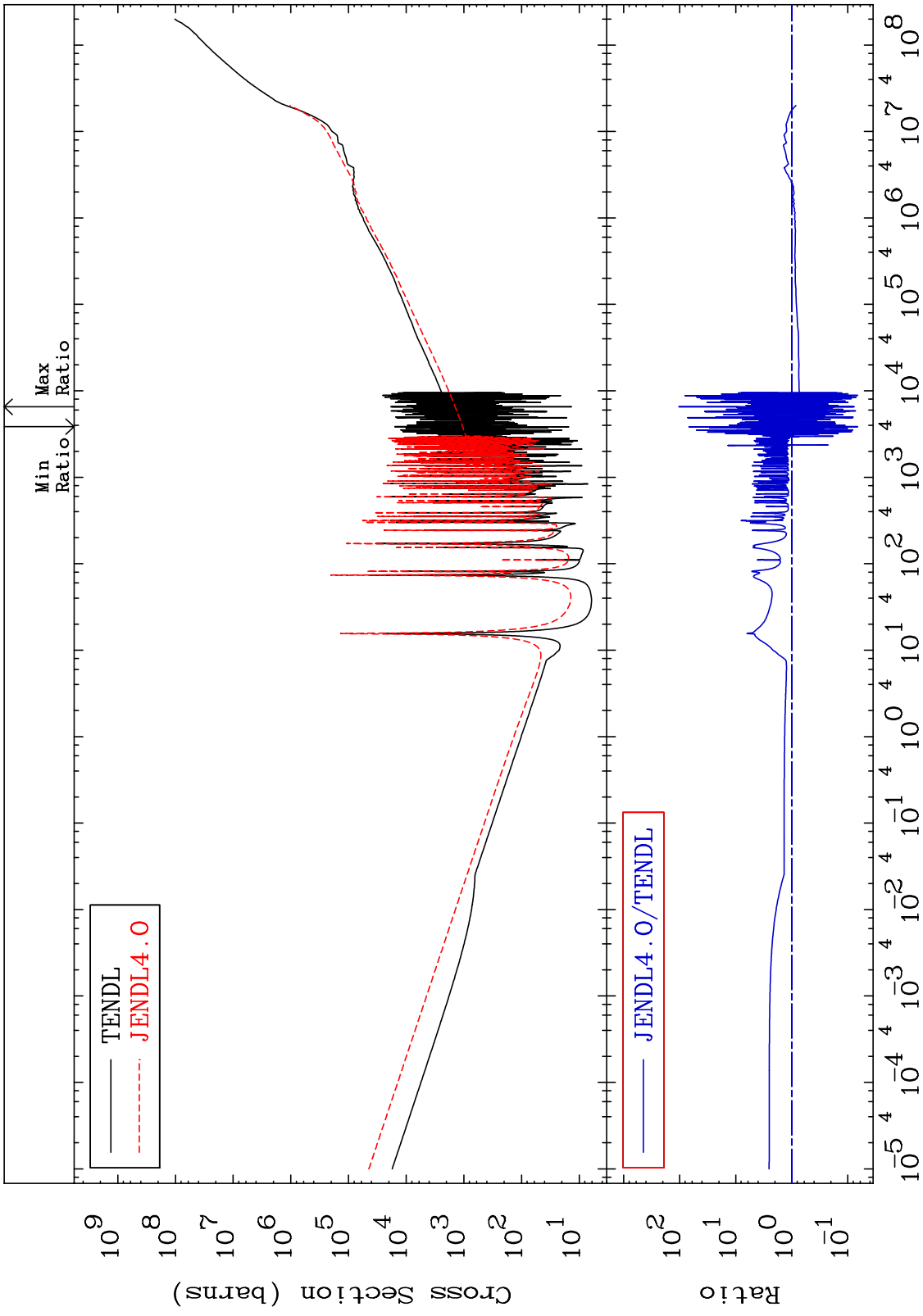
MAT 6837

Total photon (eV-barns)
Cross Section

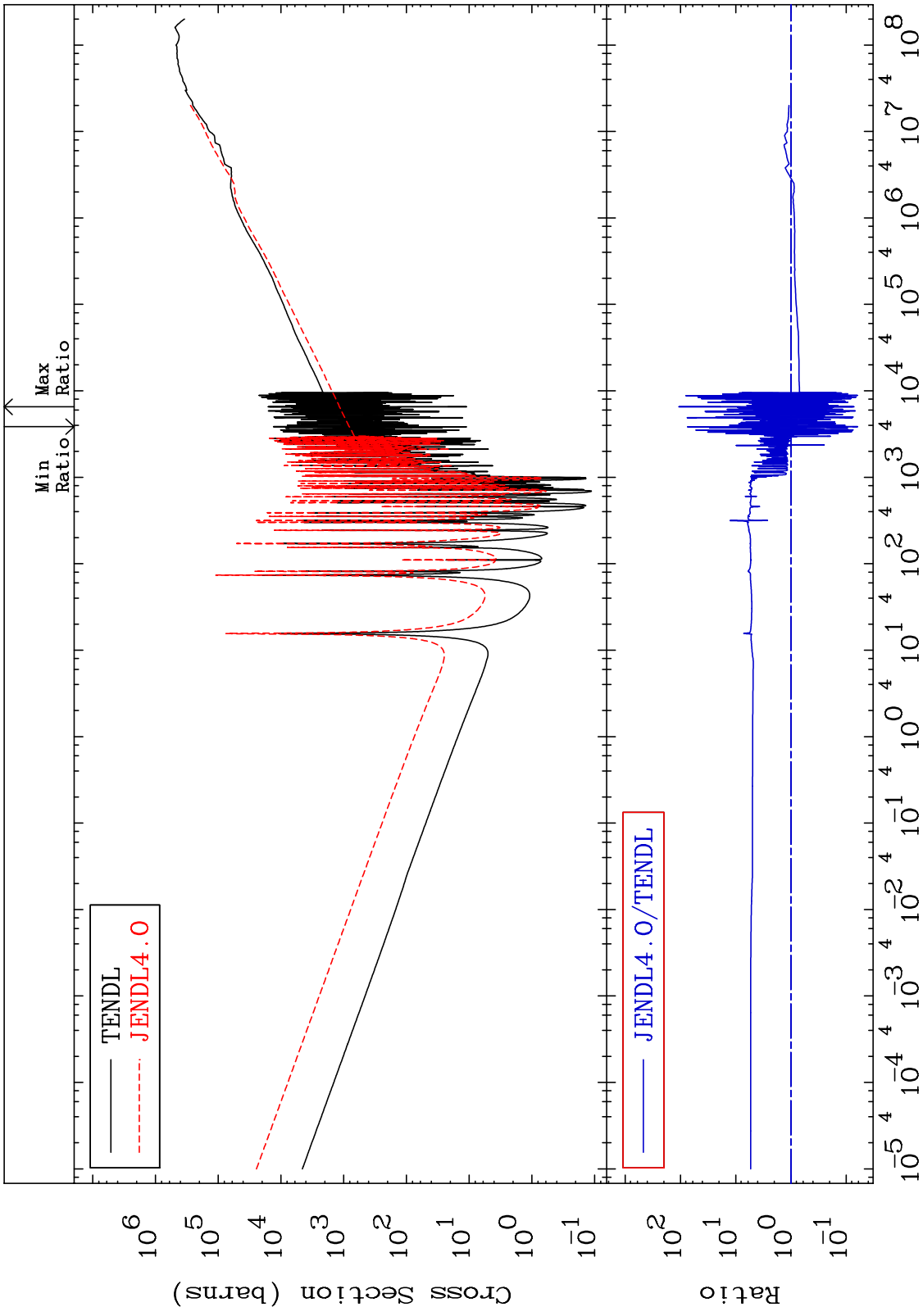
68-Er-166
-99.98 To 9999. %



MAT 6837 Total kinematic kerma (high limit) 68-Er-166
 Cross Section -93.40 To 9999. %



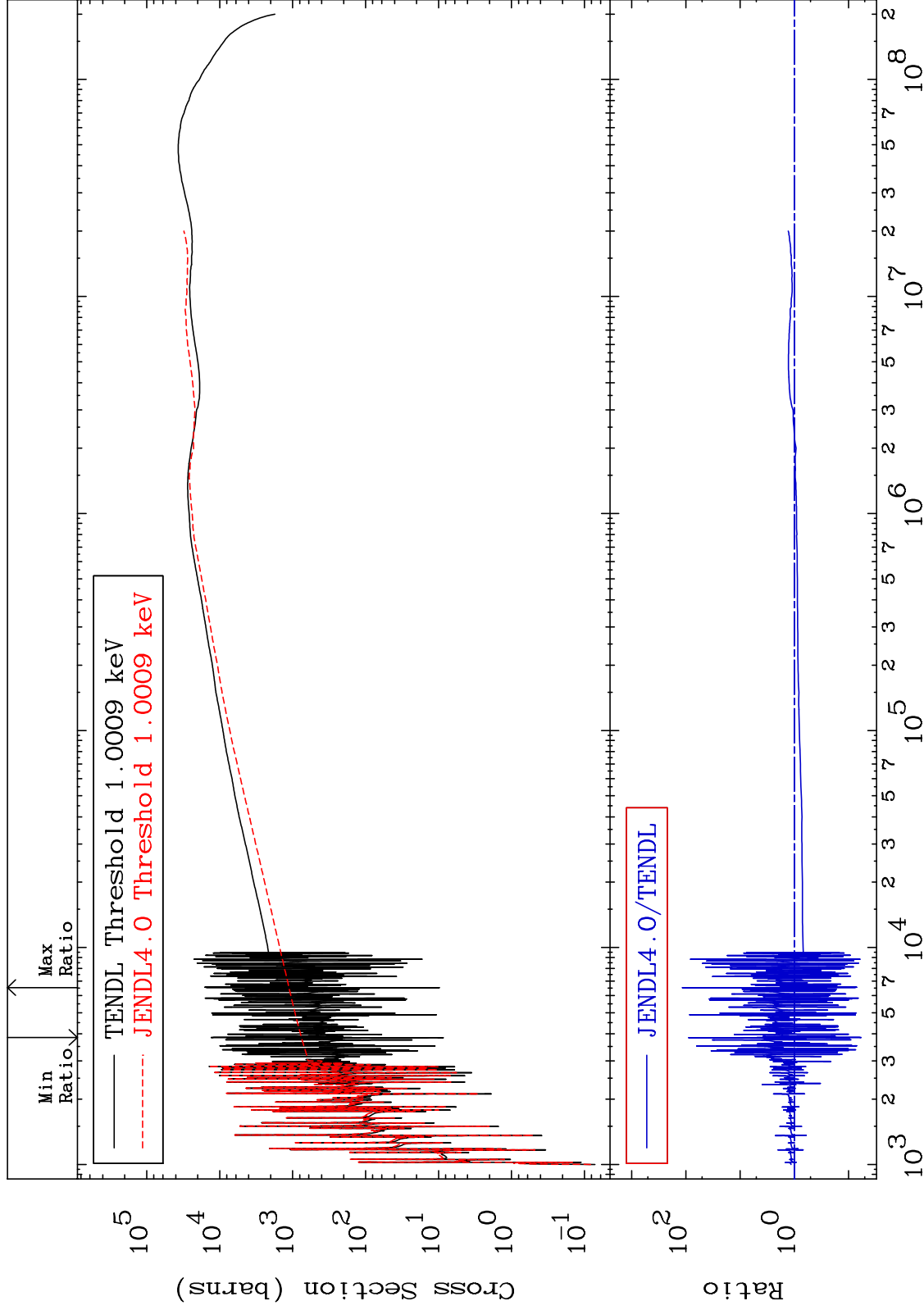
MAT 6837 Dpa total (eV-barns) 68-Er-166
 Cross Section -93.83 To 9999. %



MAT 6837

Dpa elastic (mt2)
Cross Section

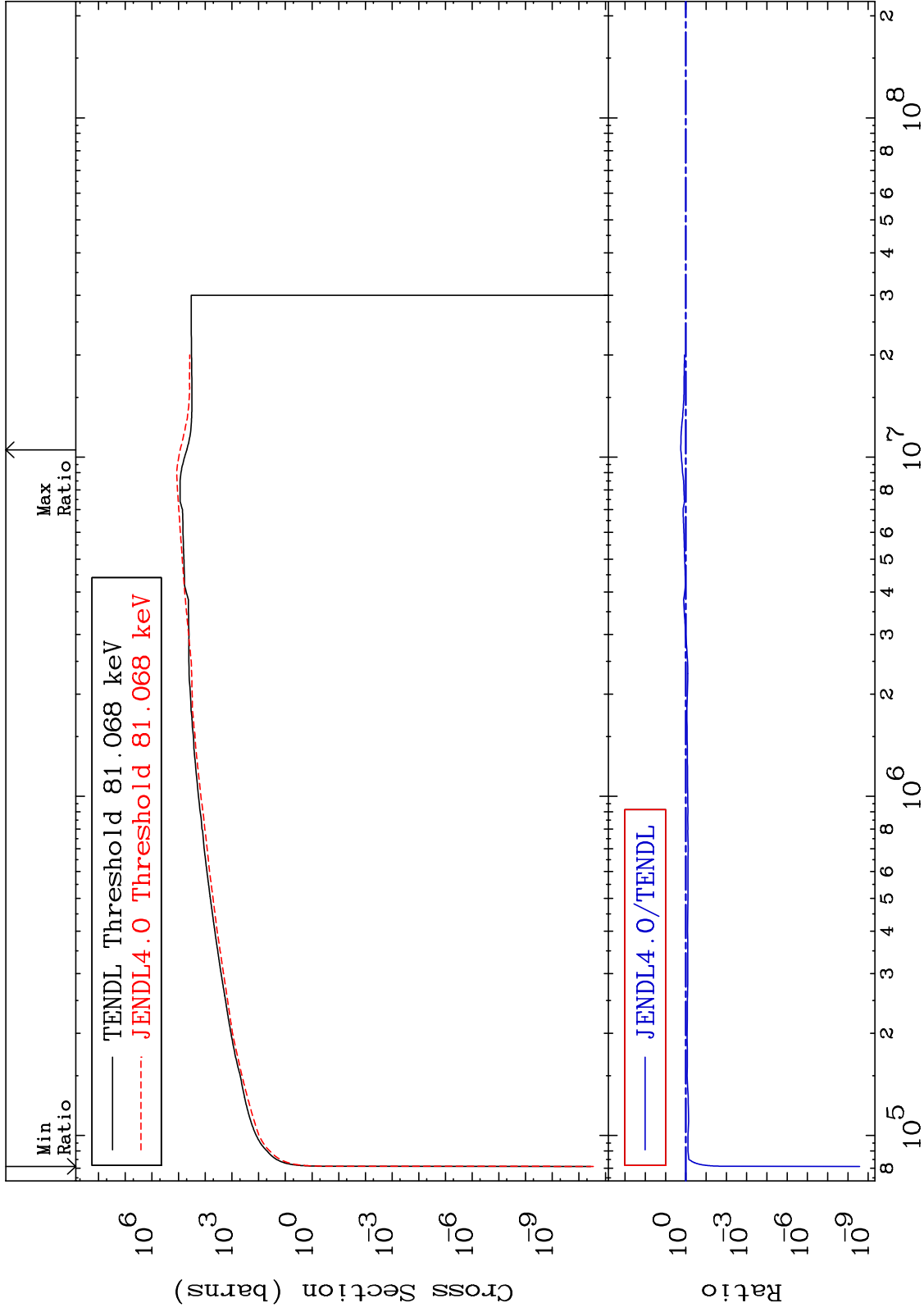
68-Er-166
-94.20 To 9999. %



MAT 6837

Dpa inelastic (mt51-91)
Cross Section

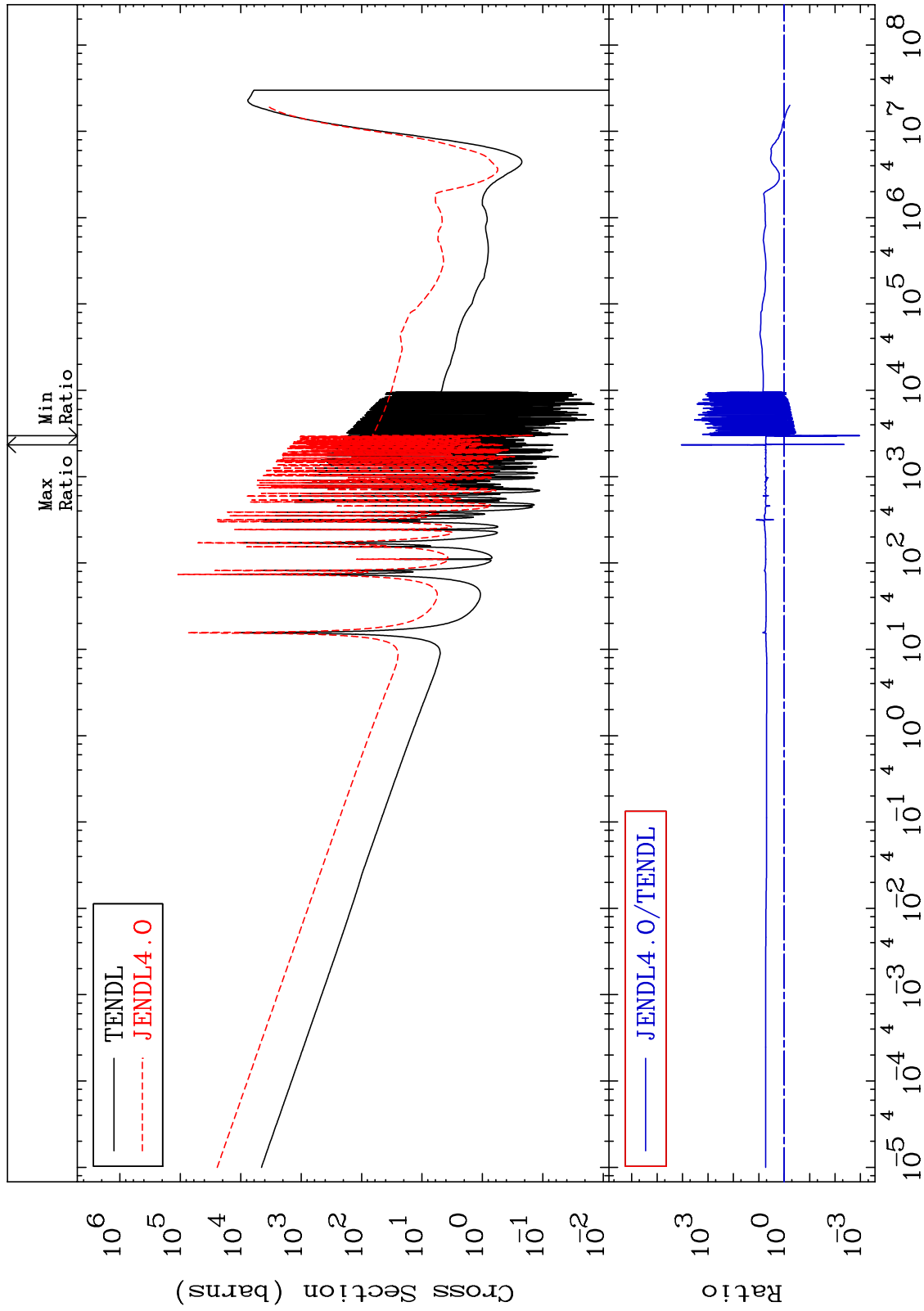
68-Er-166
-100.0 To 77.05 %



MAT 6837

Dpa disappearance (mt102 -120)
Cross Section

68-Er-166
-99.89 To 9999. %



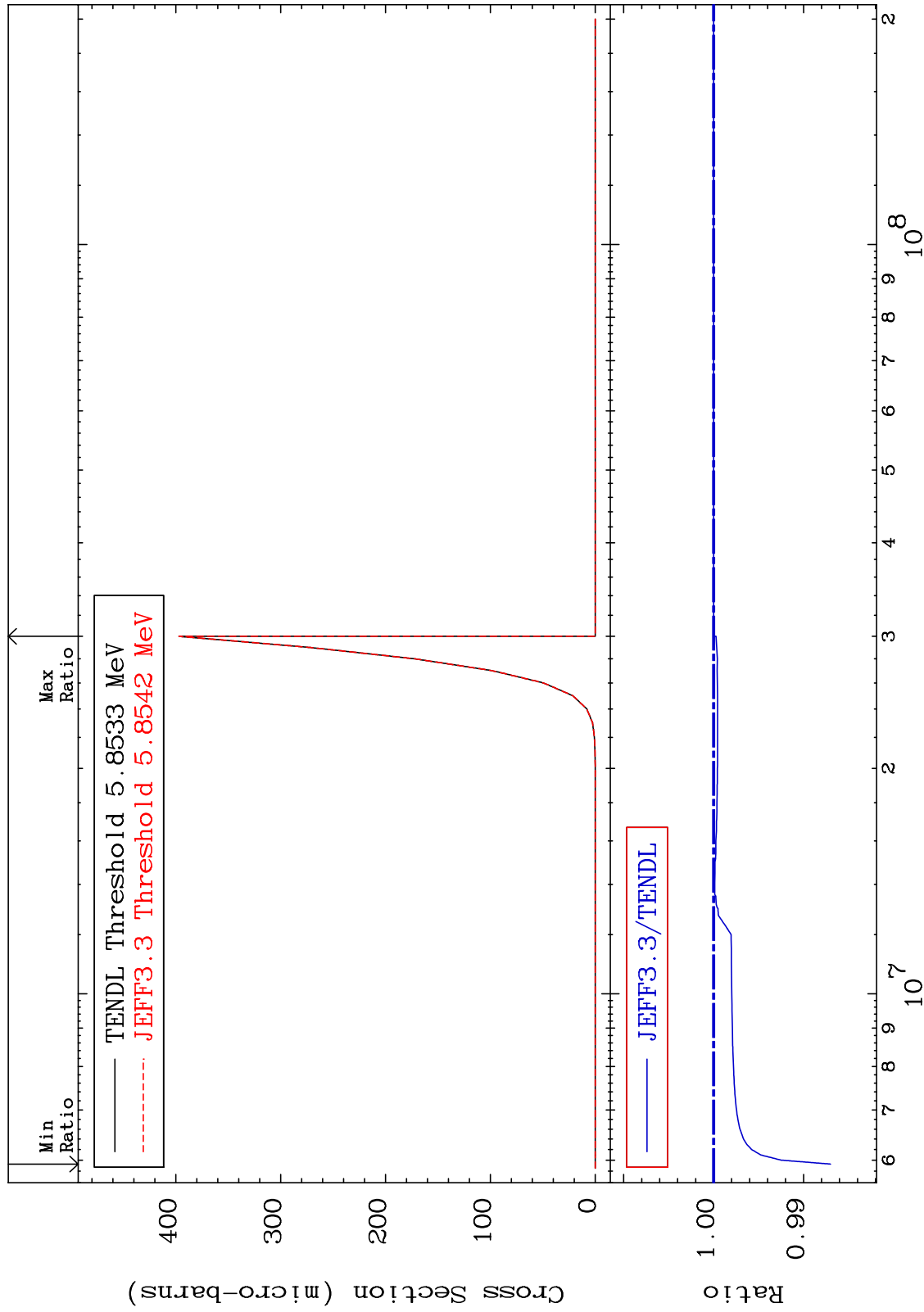
MAT 6837

(n, He-3)

68-Er-166

-1.299 To 0.000 %

Cross Section



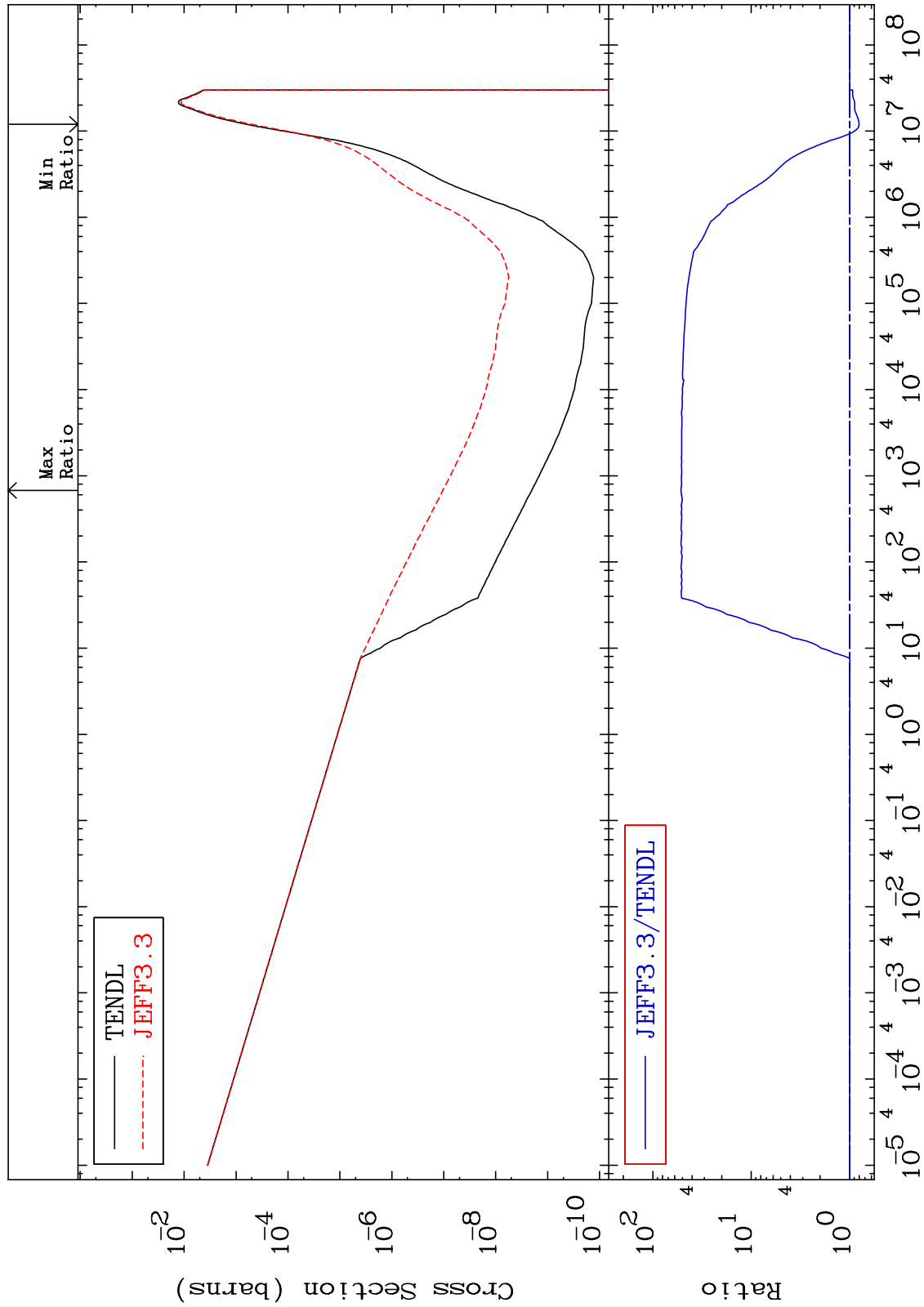
MAT 6837

(n, α)

68-Er-166

-19.74 To 5095. %

Cross Section



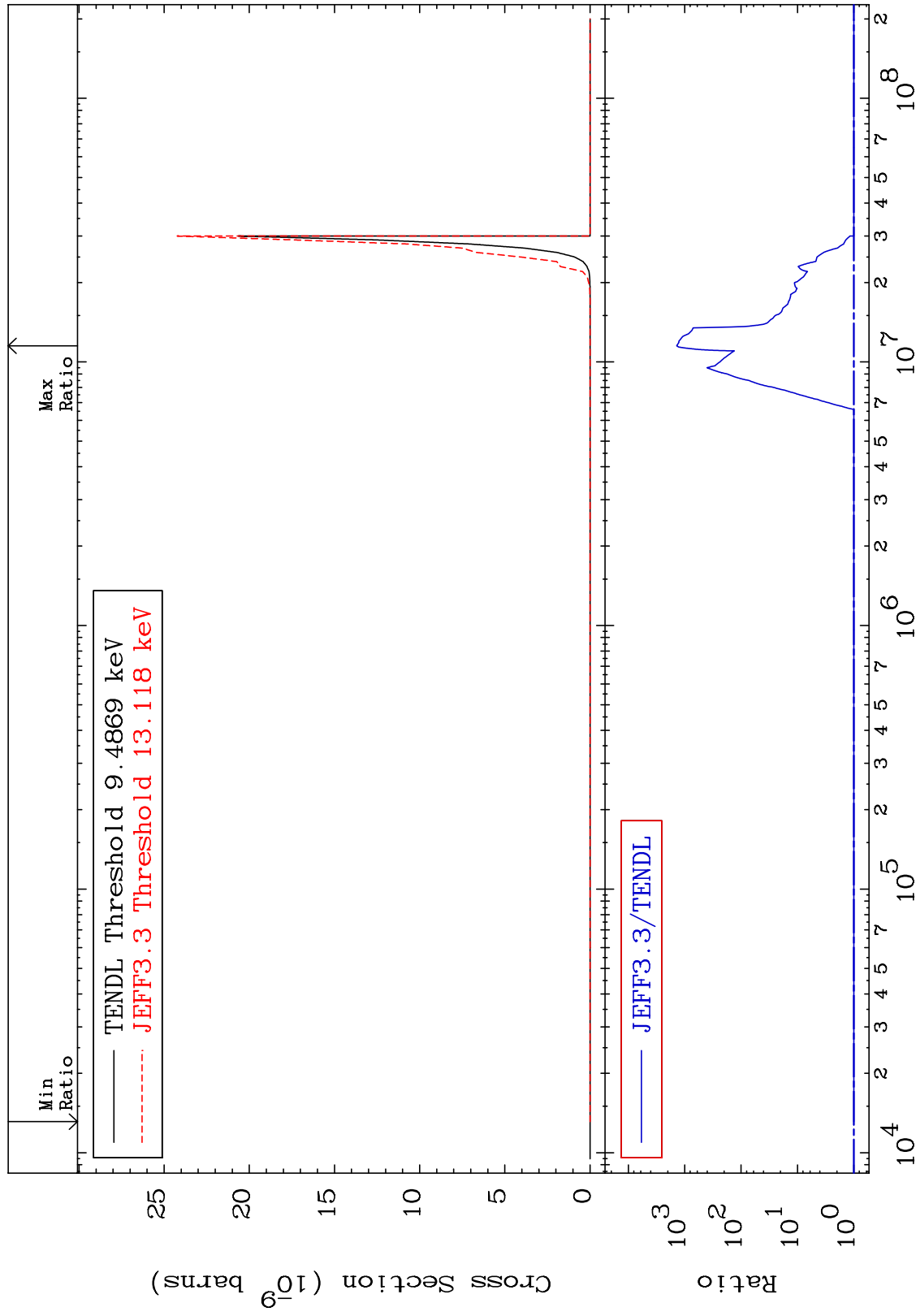
MAT 6837

(n,2α)

68-Er-166

Cross Section

0.000 To 9999. %



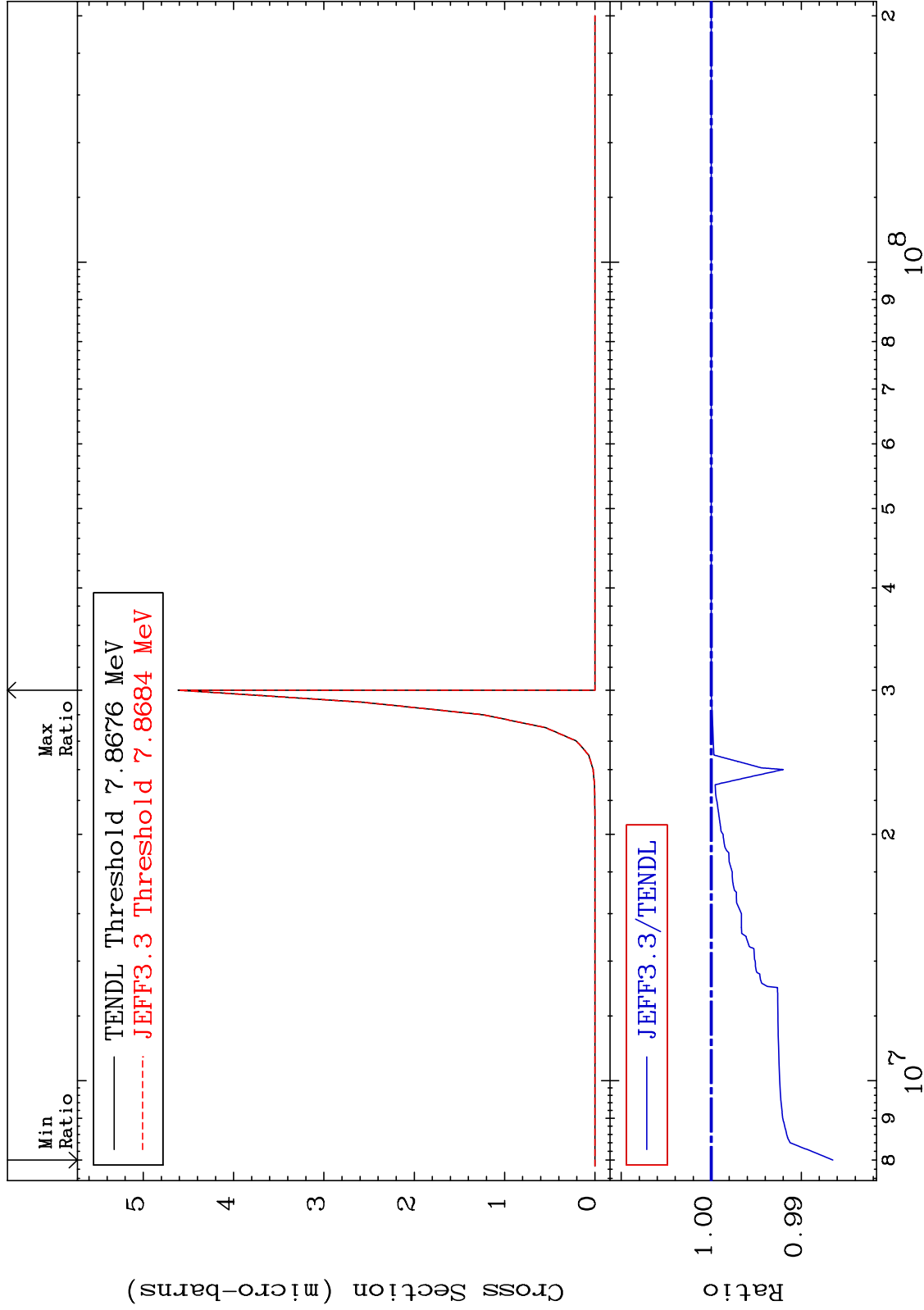
MAT 6837

(n,2p)

68-Er-166

-1.350 To 0.003 %

Cross Section



MAT 6837

(n,p) α

68-Er-166

-15.87 To 9999. %

Cross Section

Min Ratio

Max Ratio

— TENDL Threshold 898.07 keV

- - - JEFF3.3 Threshold 898.91 keV

200

150

100

50

0

Cross Section (10^9 barns)

— JEFF3.3/TENDL

10^3

10^2

10^1

10^0

Ratio

10^6

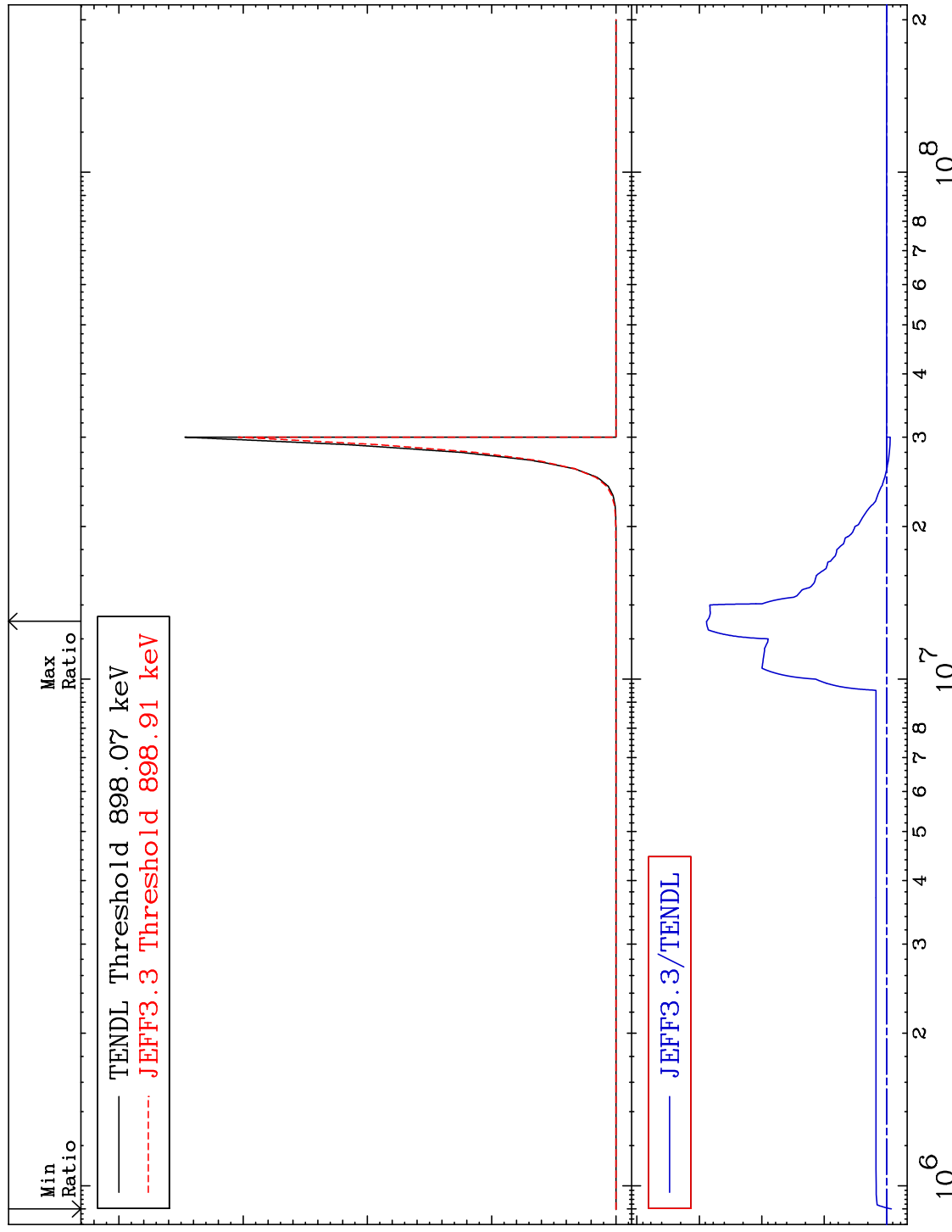
10^7

10^8

59

Incident Energy (eV)

68-Er-166



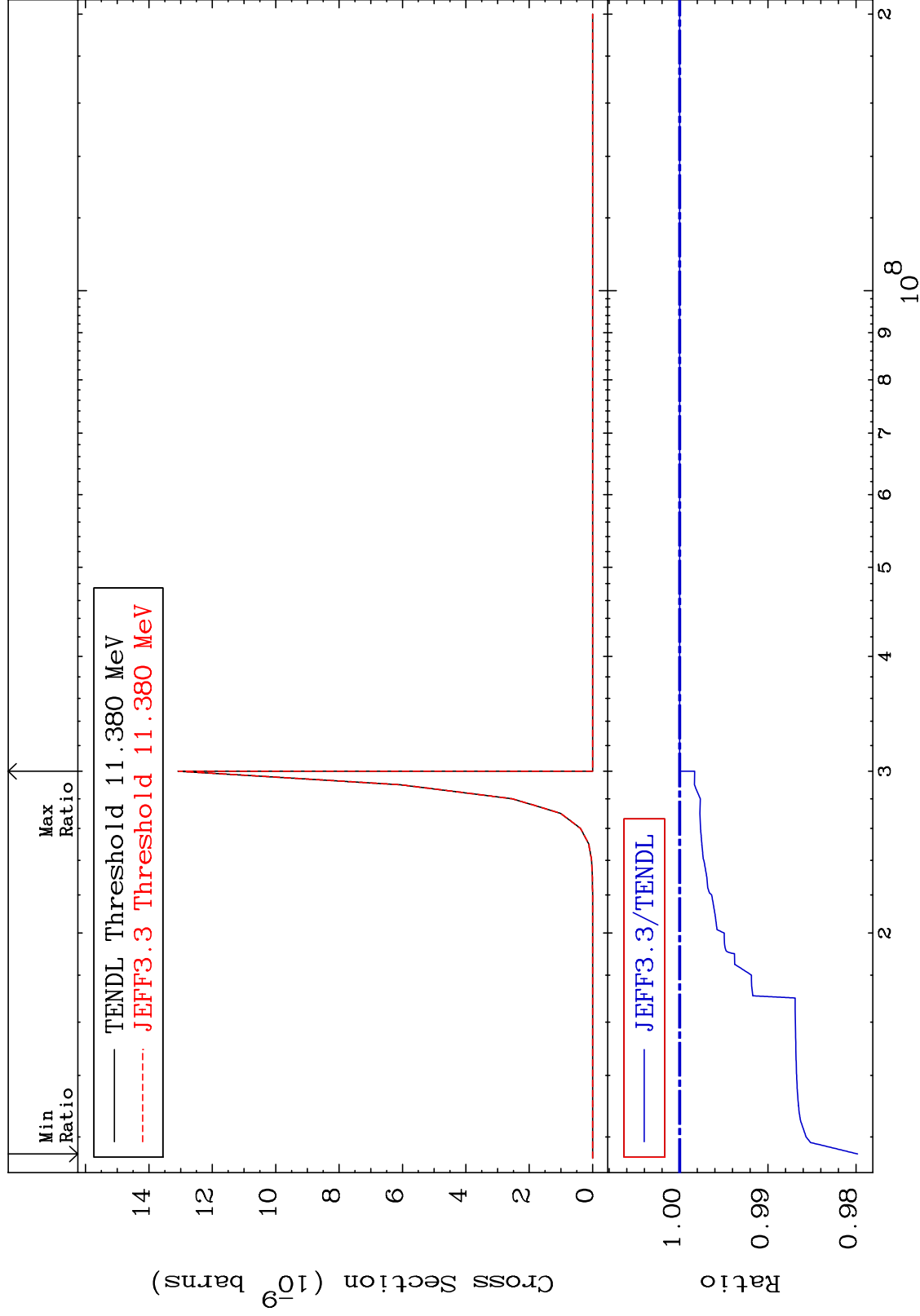
MAT 6837

(n,p) d

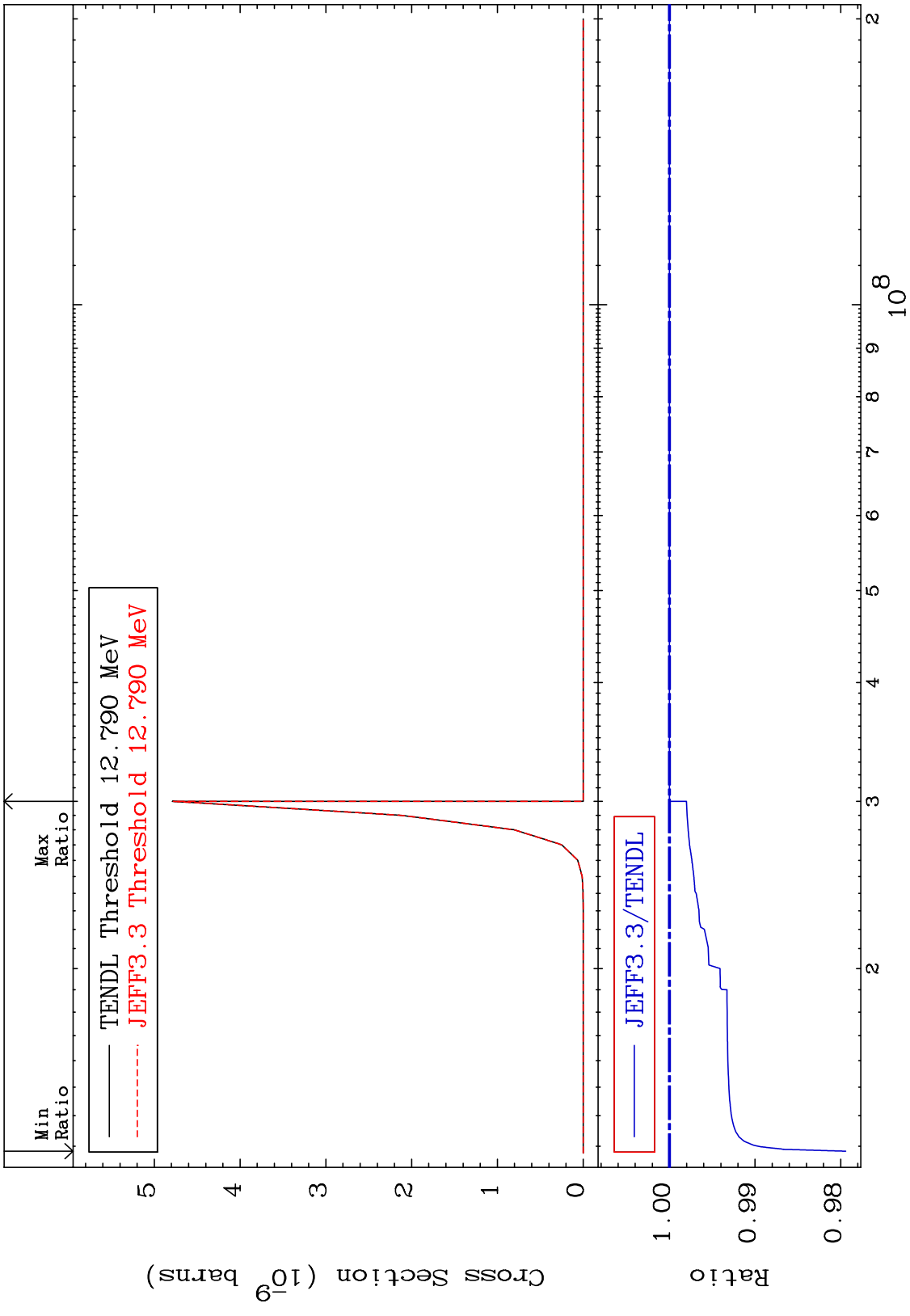
68-Er-166

Cross Section

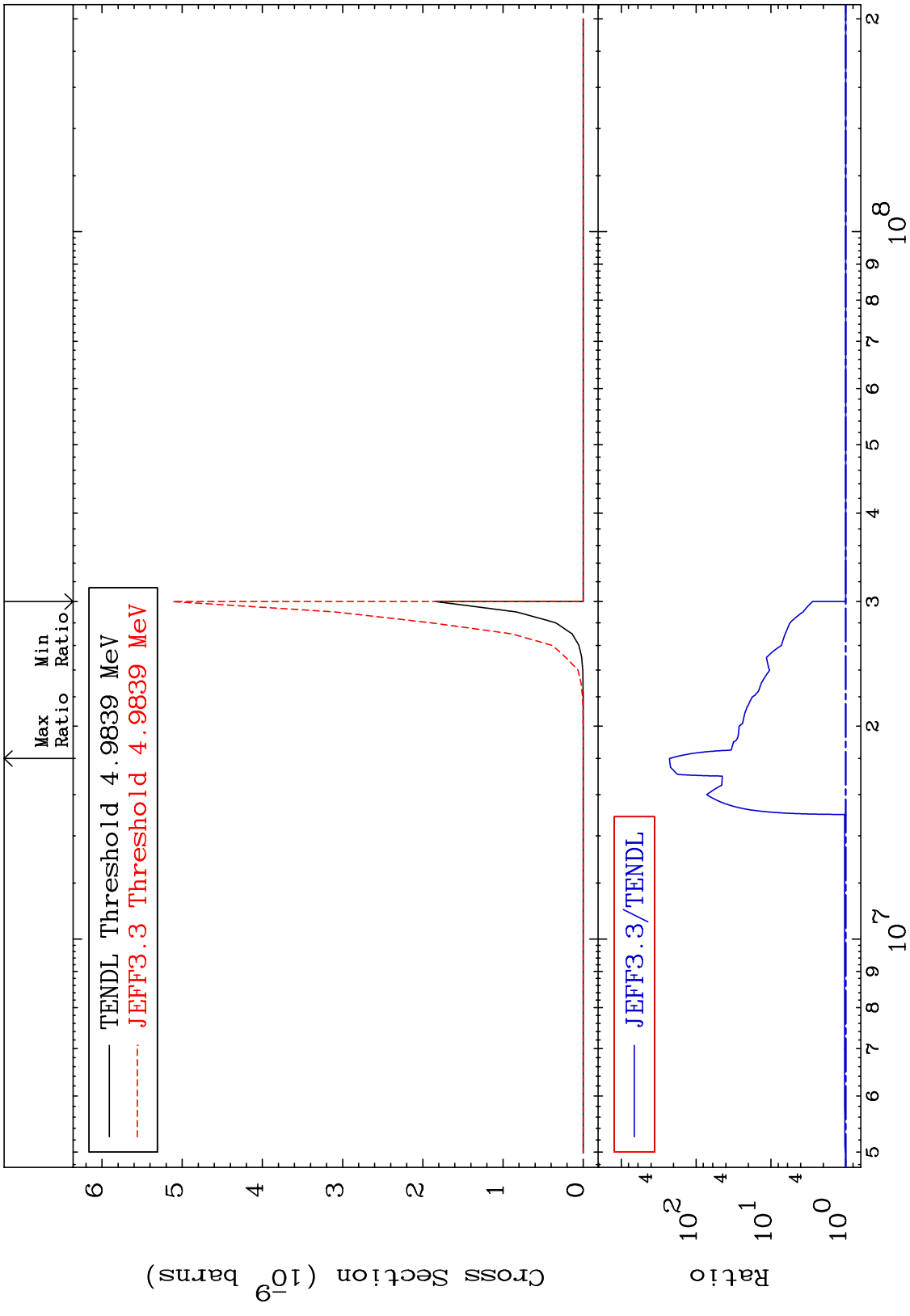
-2.019 To 0.000 %



MAT 6837 (n,p) t 68-Er-166
 Cross Section -2.059 To 0.000 %



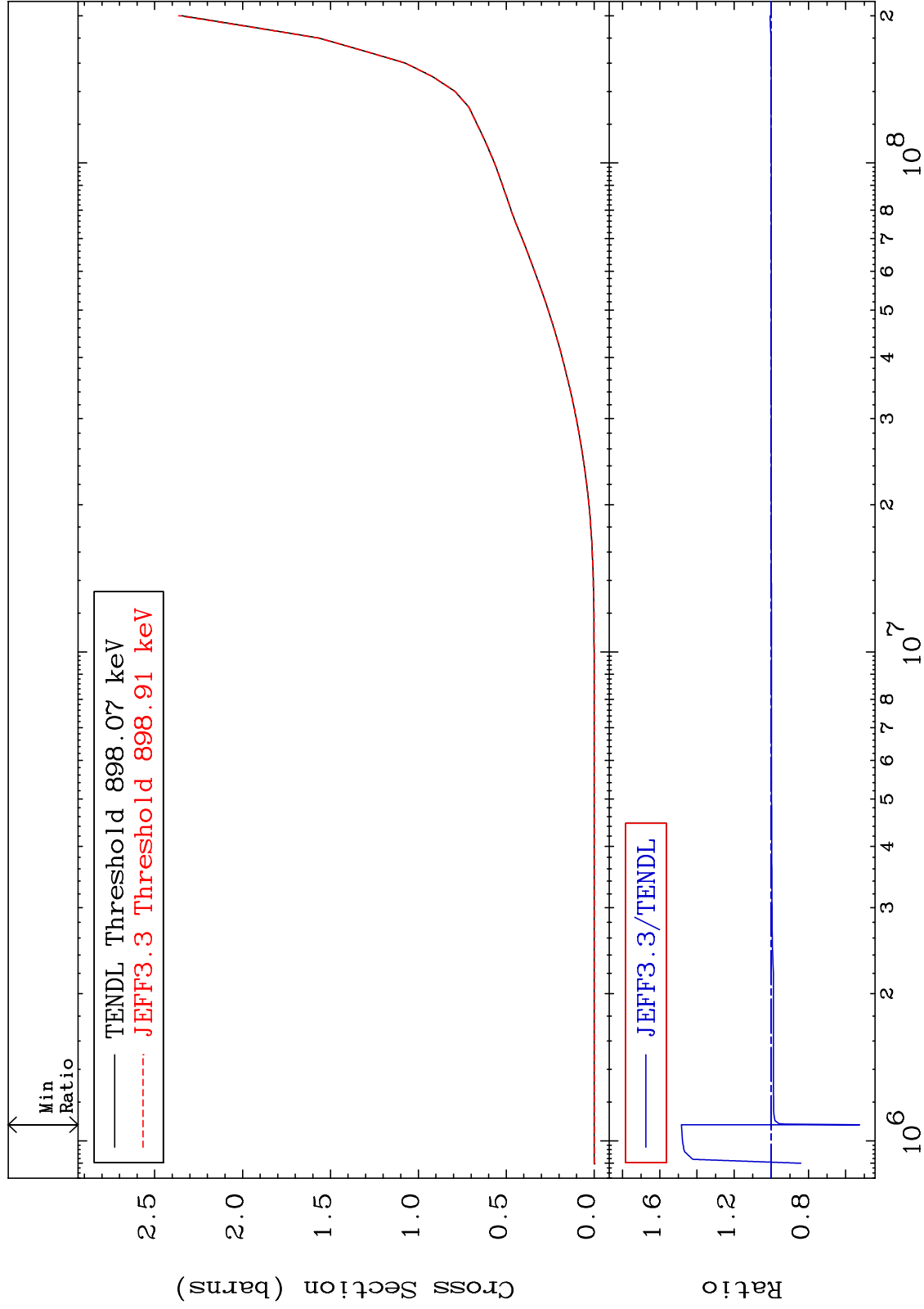
MAT 6837 (n,d) α 68-Er-166
 Cross Section 0.000 To 9999. %



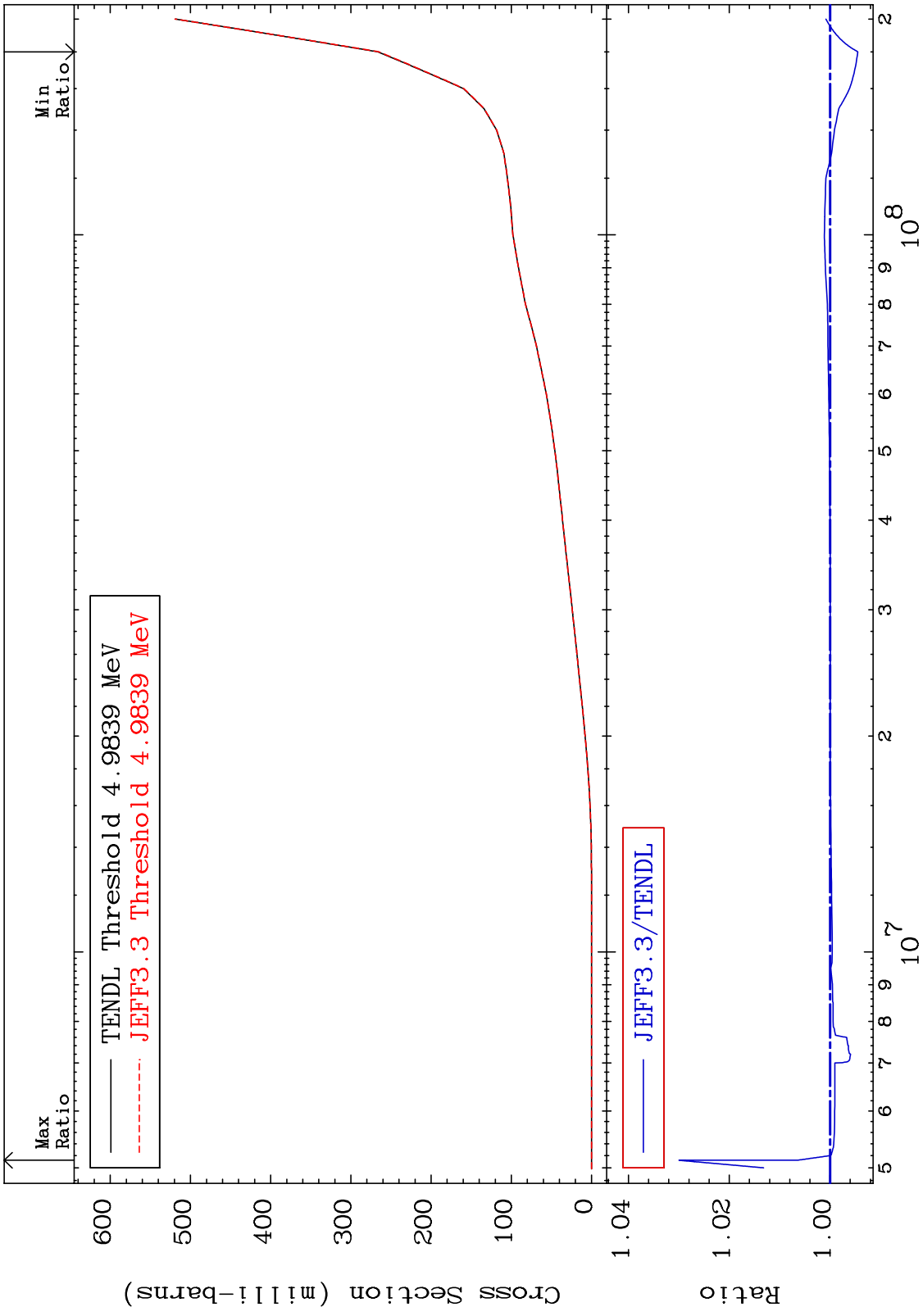
MAT 6837

Hydrogen Production
Cross Section

68-Er-166
-47.59 To 48.32 %



MAT 6837 Deuterium Production Cross Section 68-Er-166 -0.551 To 2.996 %

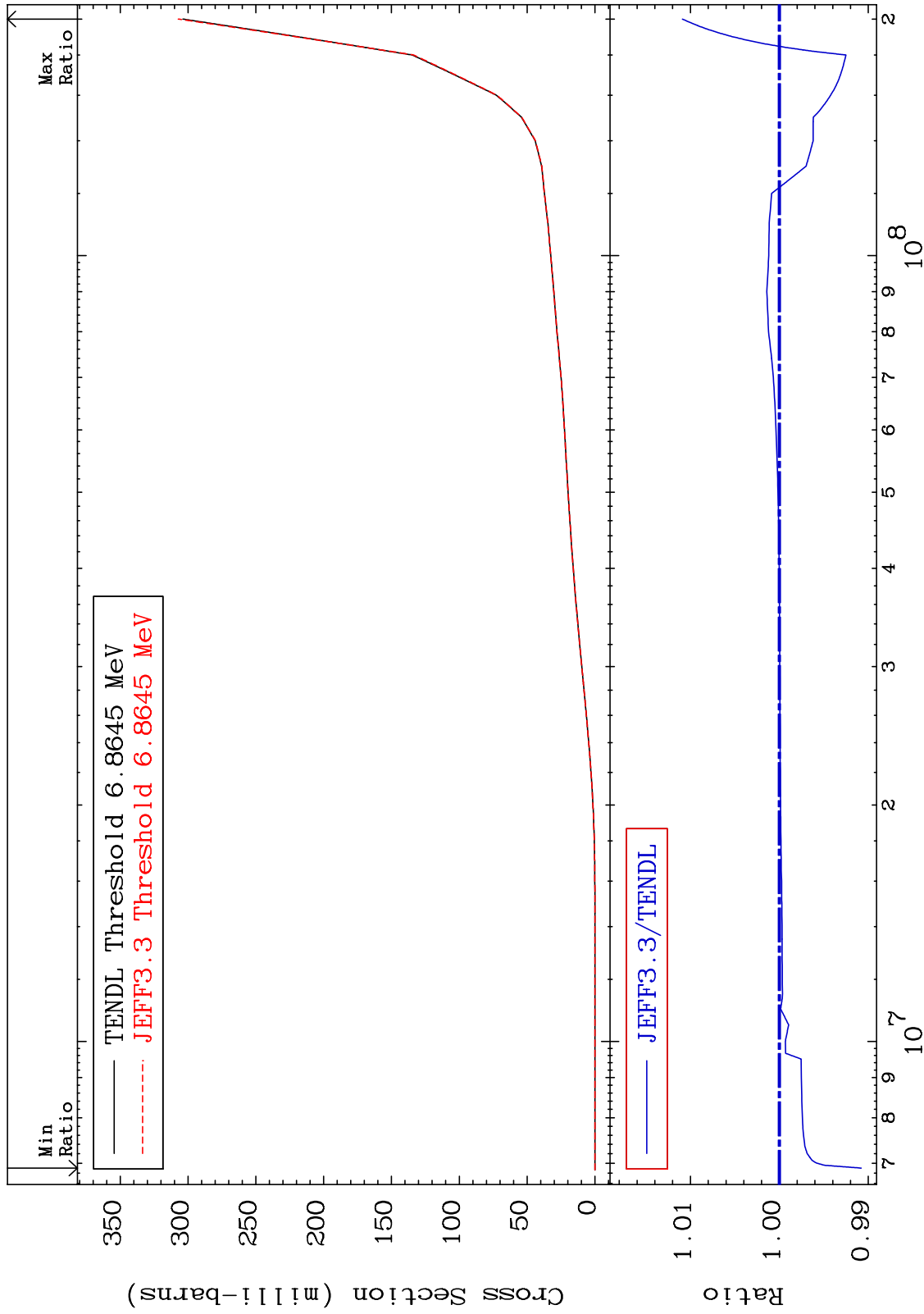


64 68-Er-166

MAT 6837

Tritium Production
Cross Section

68-Er-166
-0.921 To 1.090 %



65

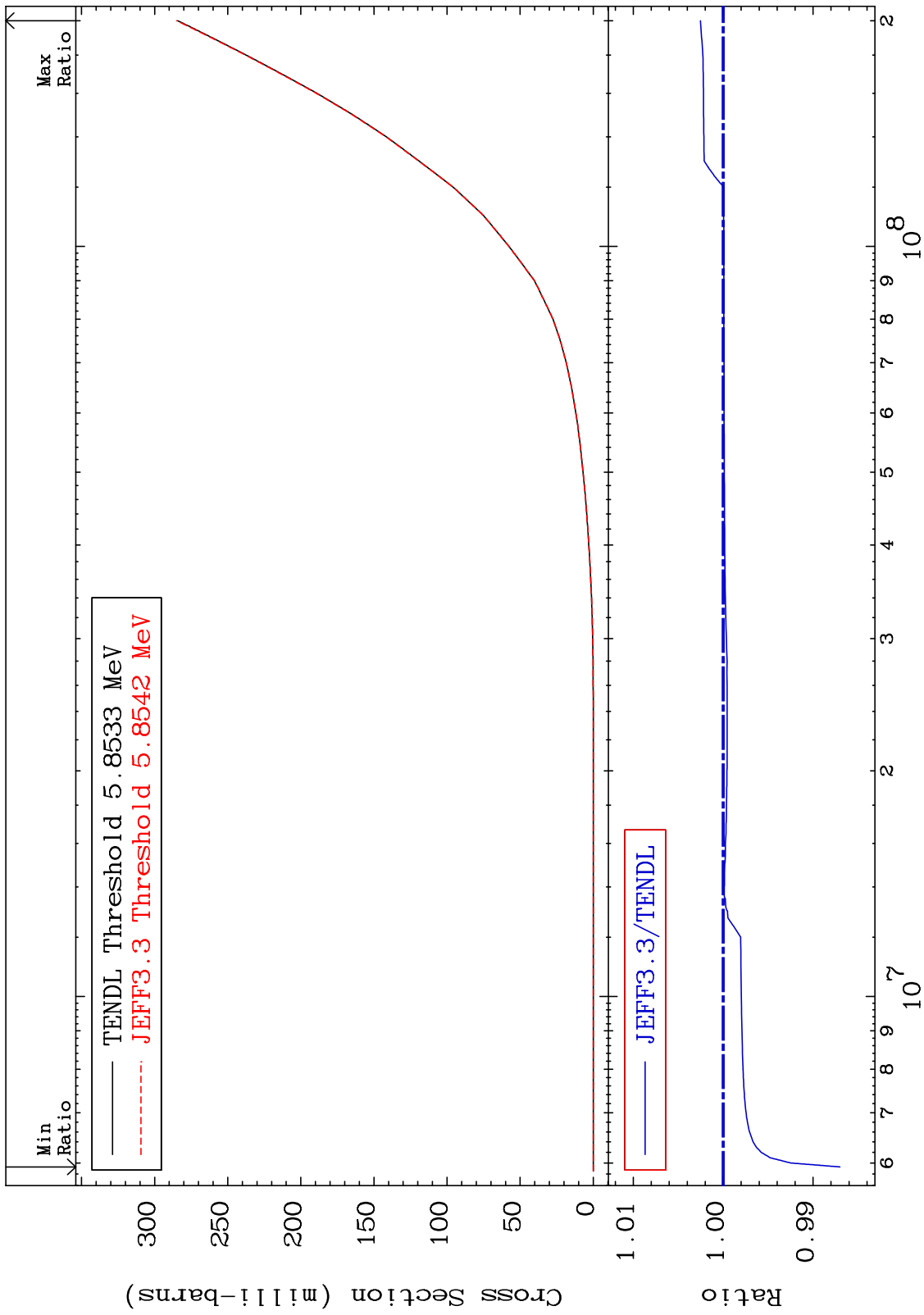
Incident Energy (eV)

68-Er-166

MAT 6837

He-3 Production
Cross Section

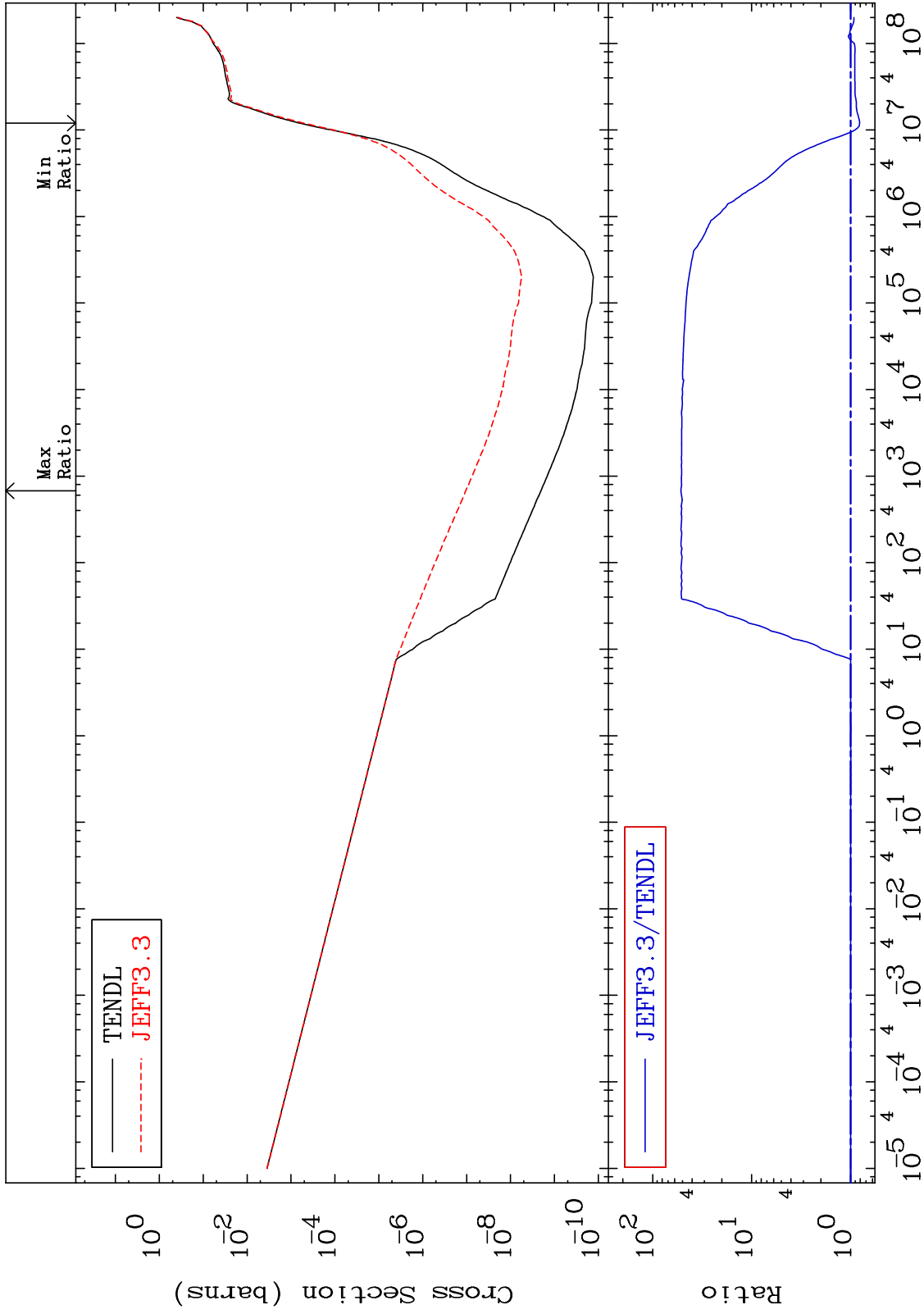
68-Er-166
-1.299 To 0.252 %



MAT 6837

He-4 Production
Cross Section

68-Er-166
-18.96 To 5095. %

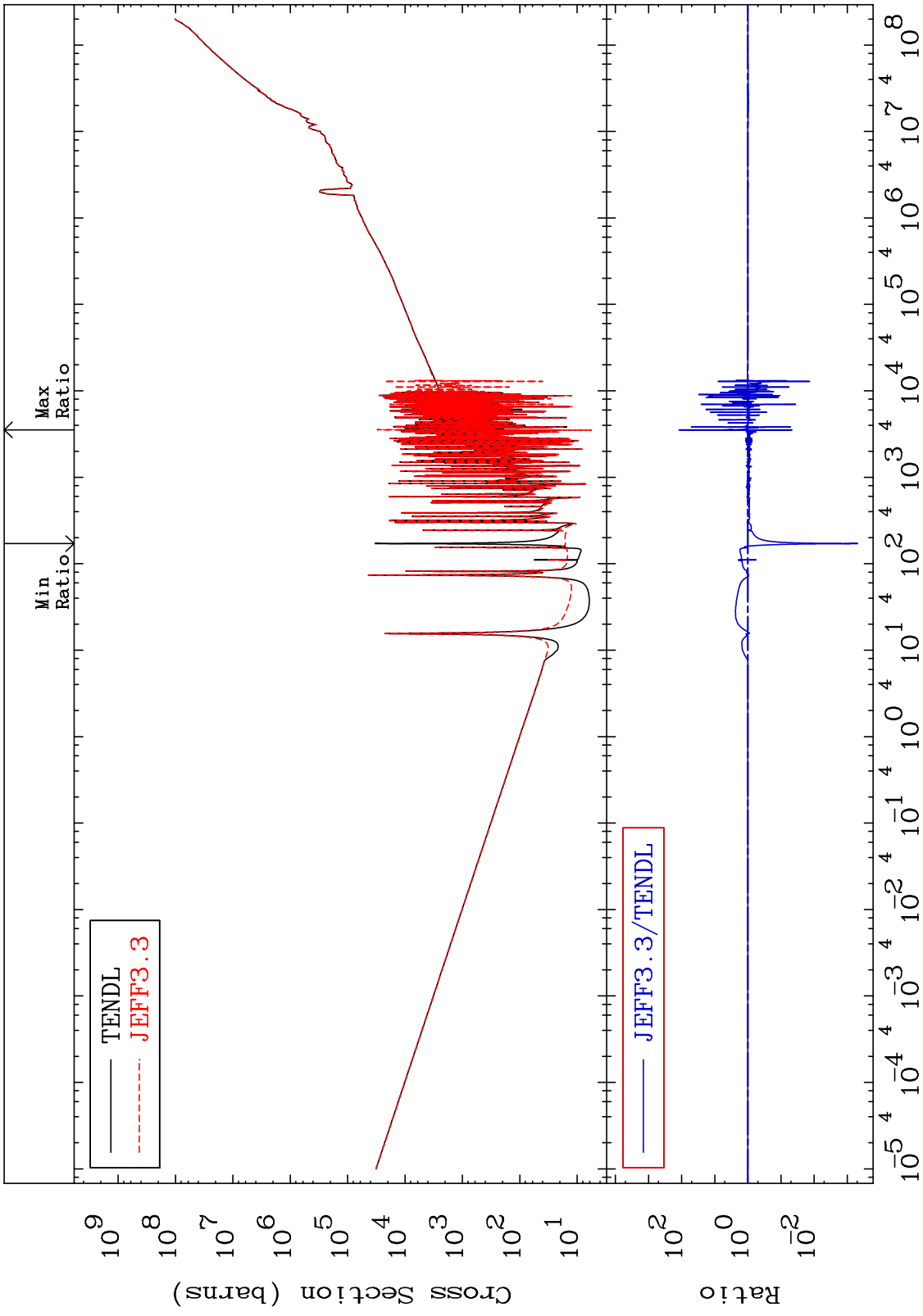


67

Incident Energy (eV)

68-Er-166

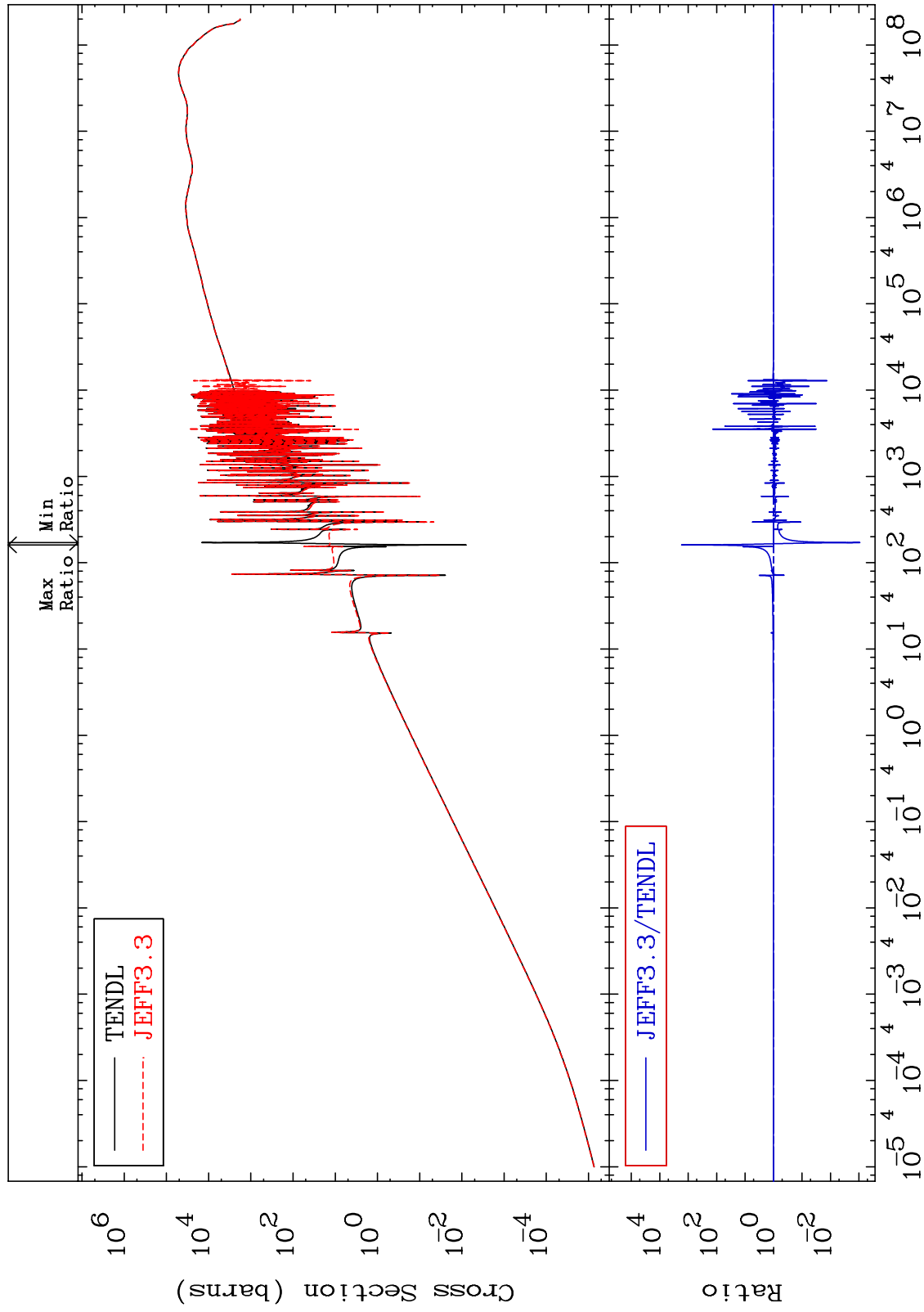
MAT 6837 Kerma total (eV-barns) 68-Er-166
Cross Section -99.95 To 9999. %



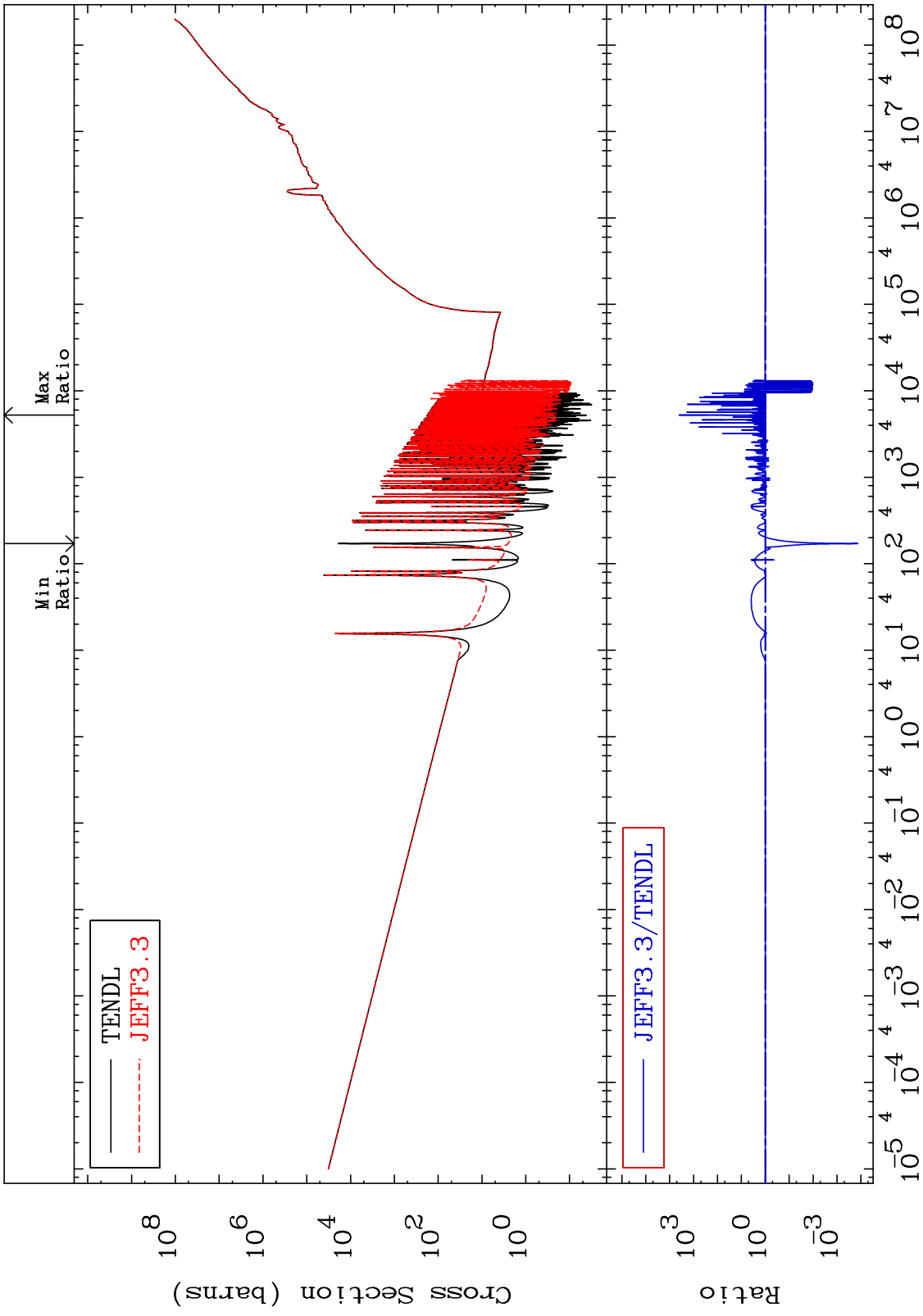
MAT 6837

Kerma elastic
Cross Section

68-Er-166
-99.91 To 9999. %

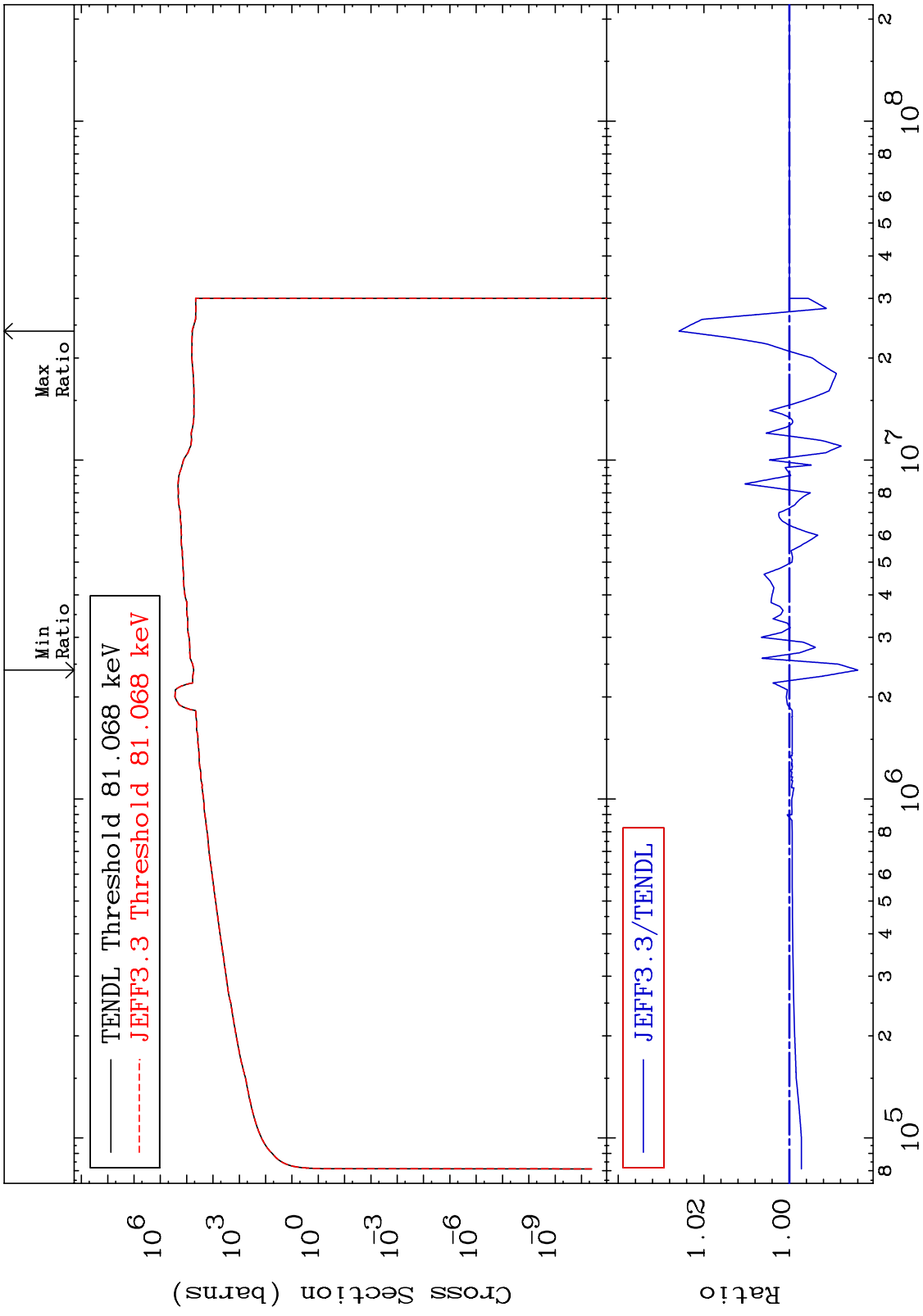


MAT 6837 Kerma non-elastic (all but mt2) 68-Er-166
 -99.99 To 9999. %
 Cross Section



70 Incident Energy (eV) 68-Er-166

MAT 6837 Kerma inelastic (mt51-91) 68-Er-166
 -1.603 To 2.579 %

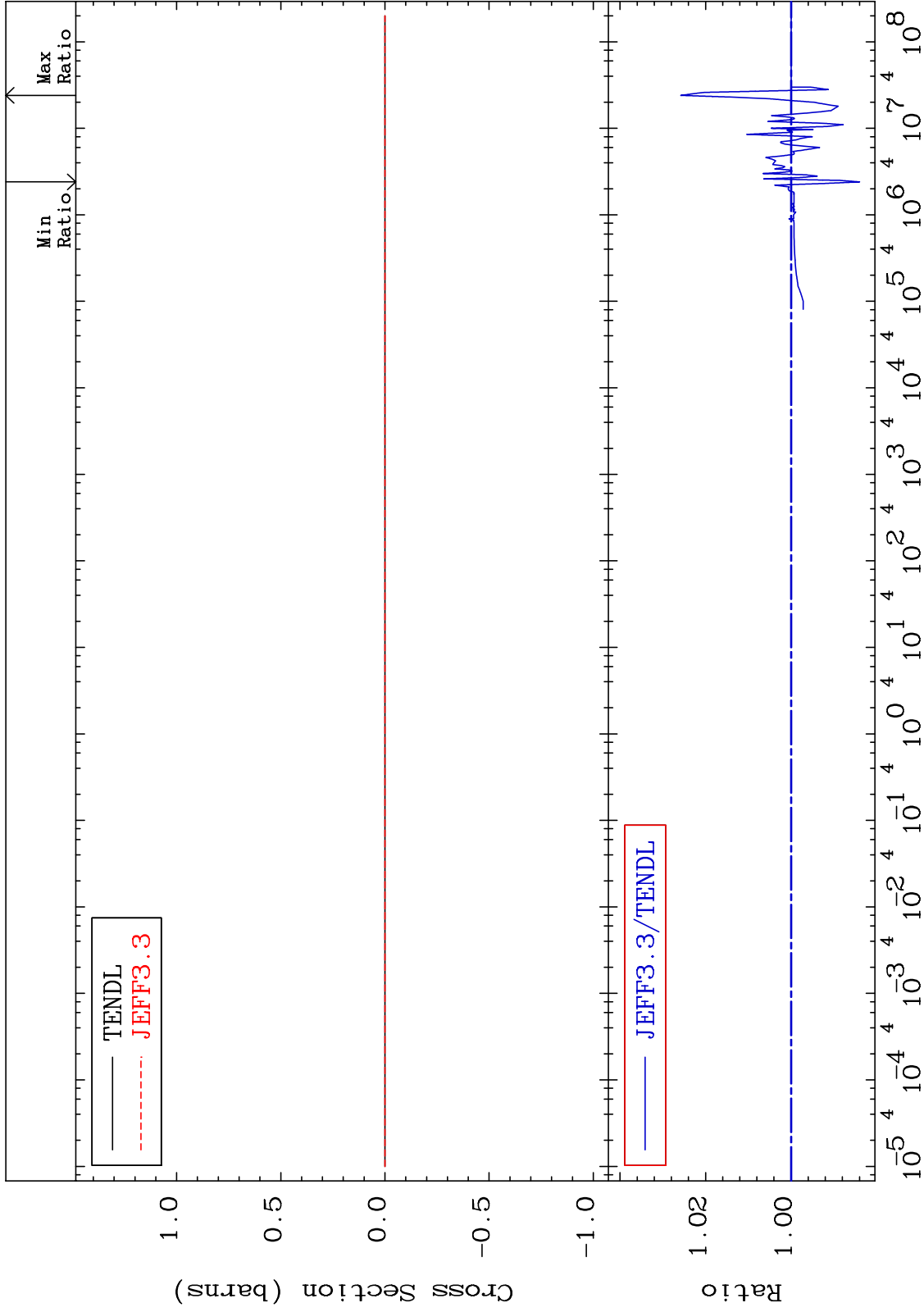


71 Incident Energy (eV) 68-Er-166

MAT 6837

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

68-Er-166
-1.603 To 2.579 %



72

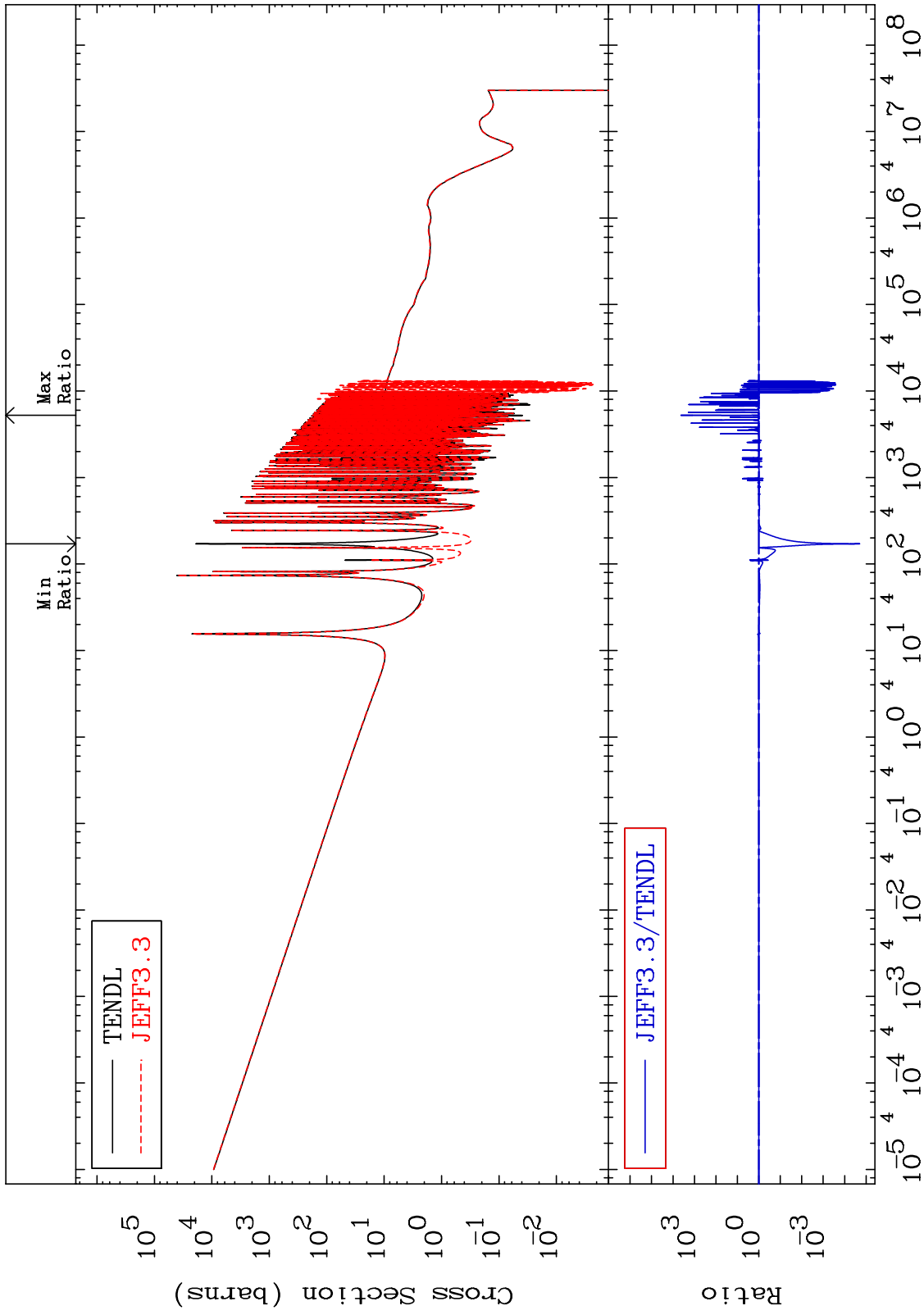
Incident Energy (eV)

68-Er-166

MAT 6837

Kerma capture (mt102)
Cross Section

68-Er-166
-100.0 To 9999. %



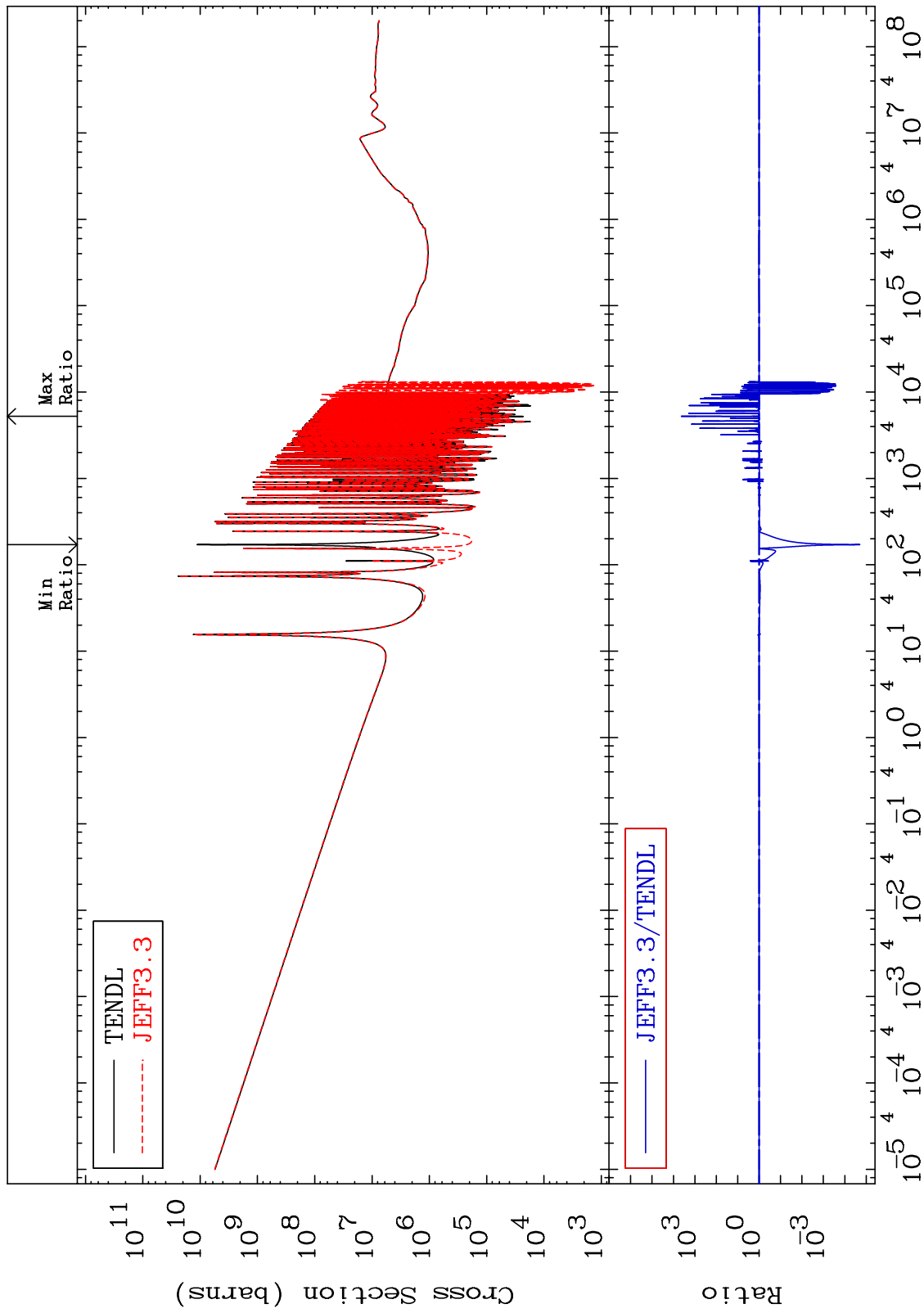
73

68-Er-166

MAT 6837

Total photon (eV-barns)
Cross Section

68-Er-166
-100.0 To 9999. %

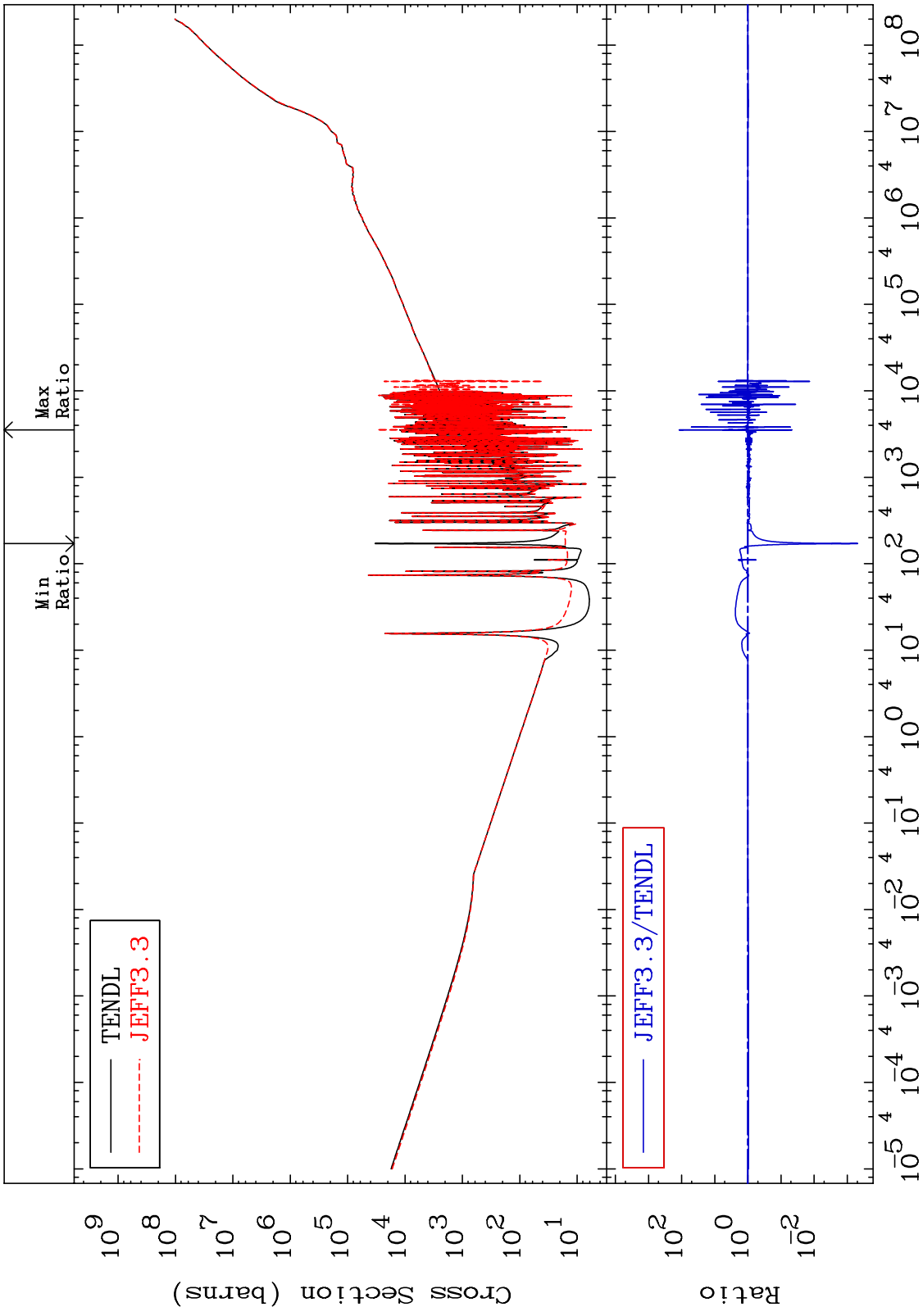


74

Incident Energy (eV)

68-Er-166

MAT 6837 Total kinematic kerma (high limit) 68-Er-166
 Cross Section -99.95 To 9999. %

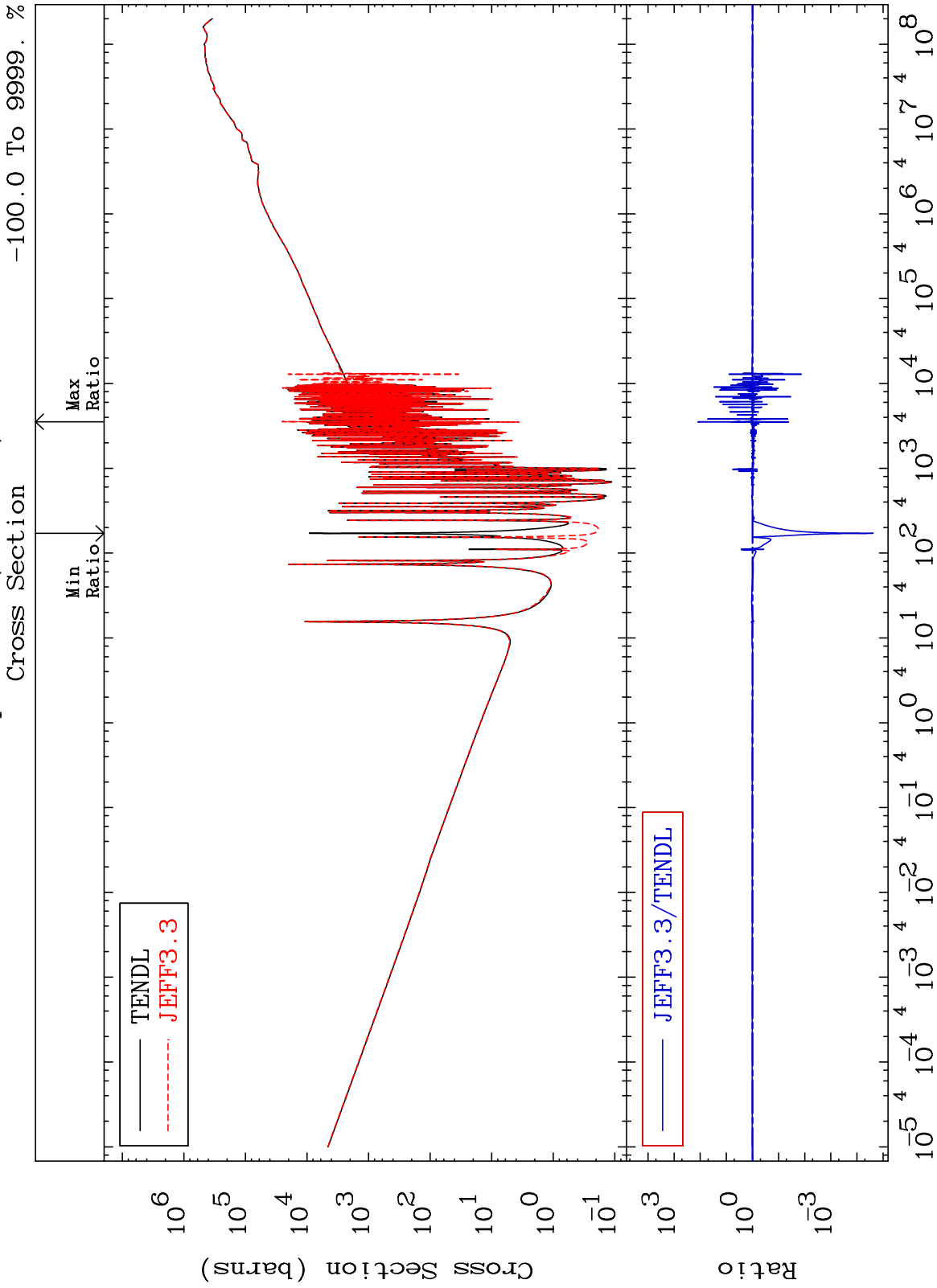


MAT 6837

Dpa total (eV-barns)

68-Er-166

-100.0 To 9999. %

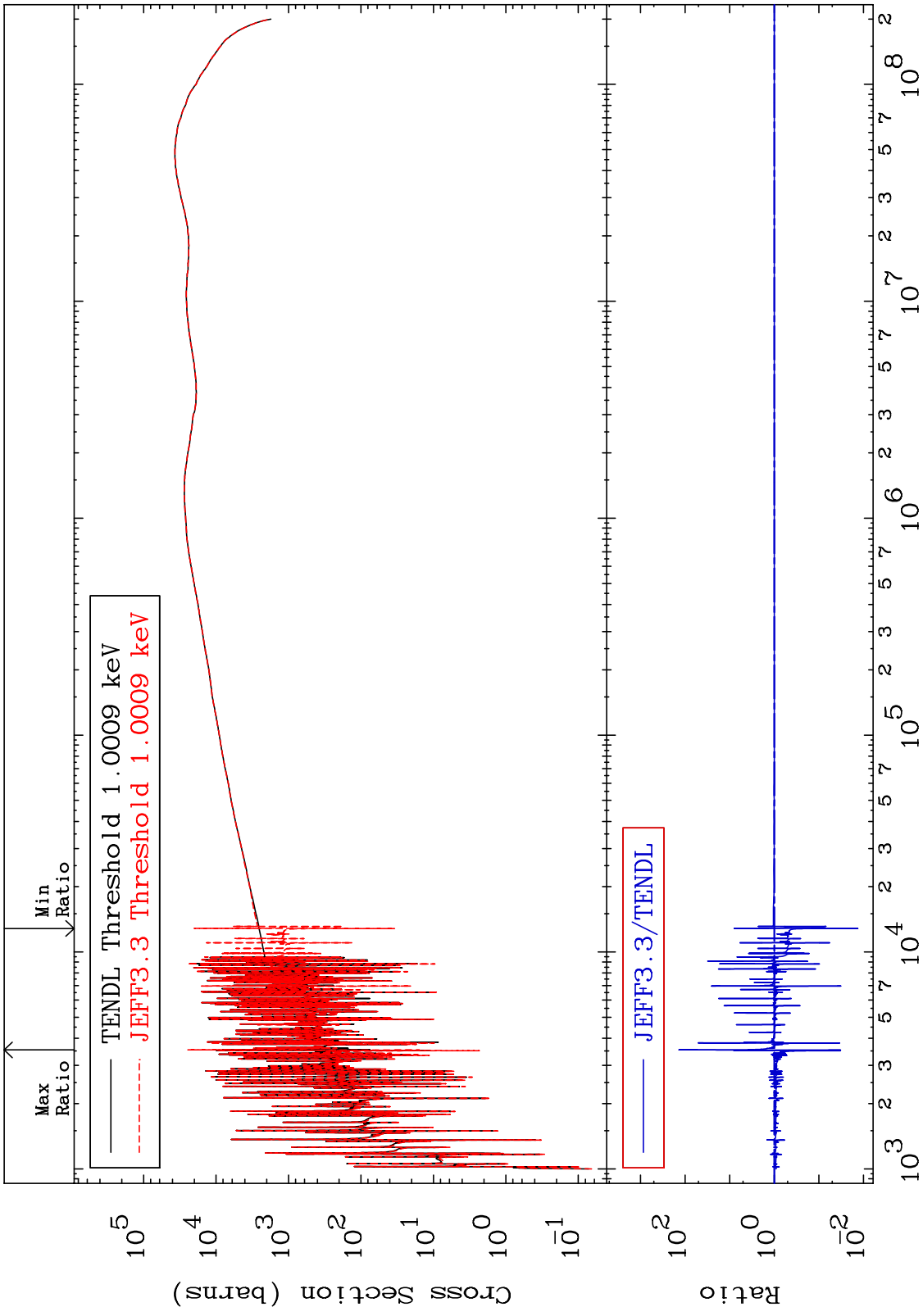


76

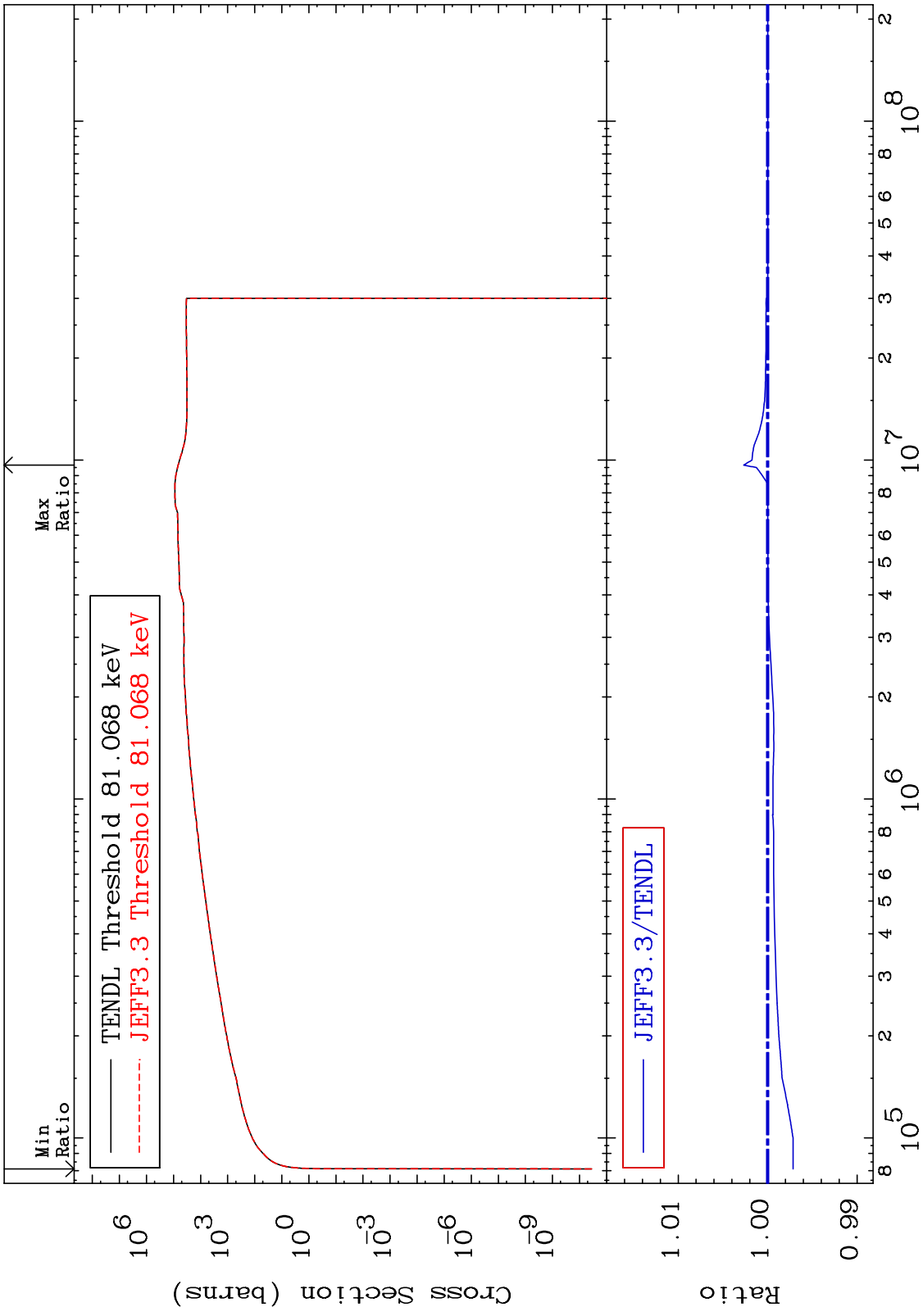
Incident Energy (eV)

68-Er-166

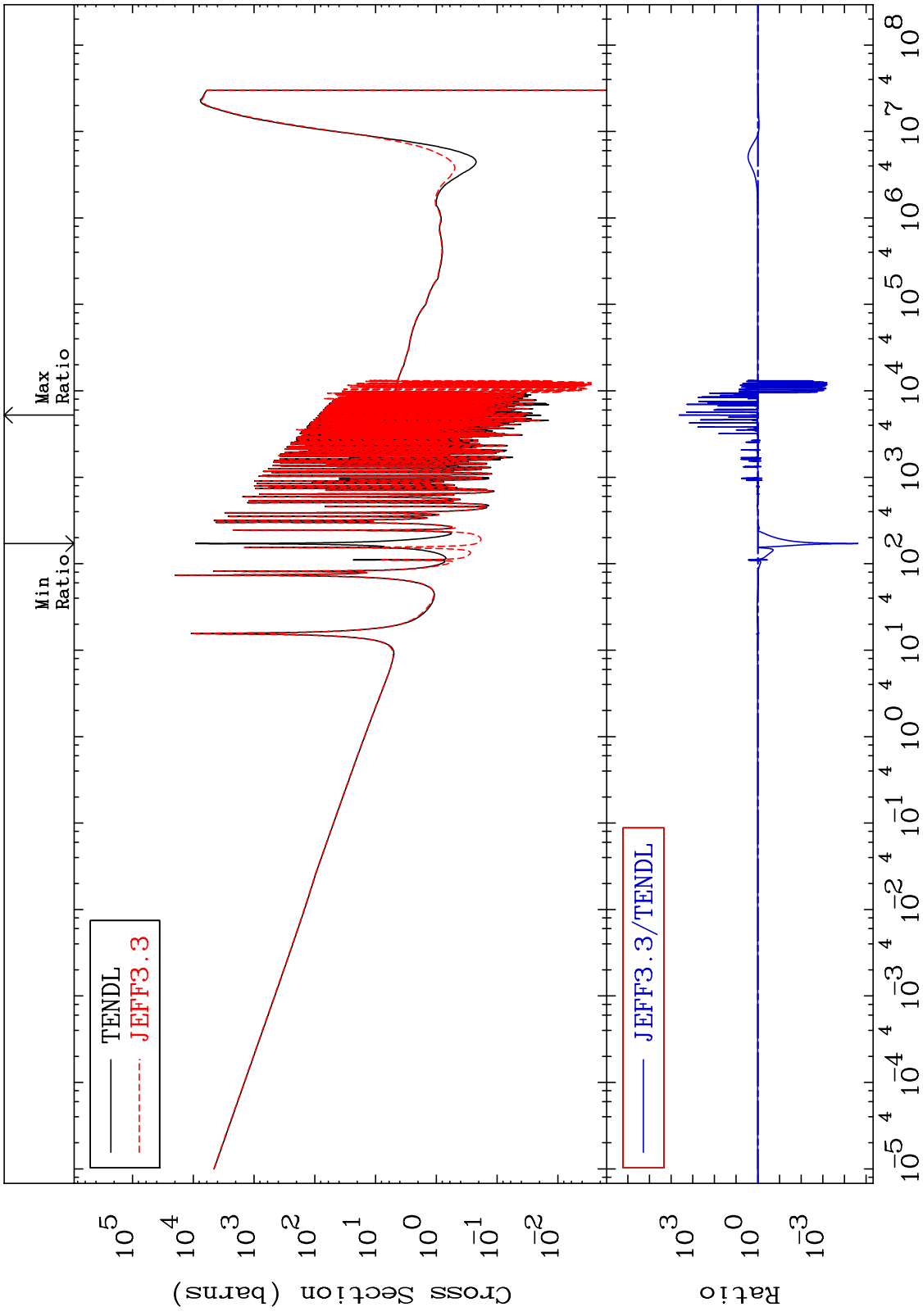
MAT 6837 Dpa elastic (mt2) 68-Er-166
Cross Section -98.67 To 9999. %



MAT 6837 Dpa inelastic (mt51-91) 68-Er-166
Cross Section -0.285 To 0.267 %



MAT 6837 Dpa disappearance (mt102 -120) 68-Er-166
 Cross Section -100.0 To 9999. %



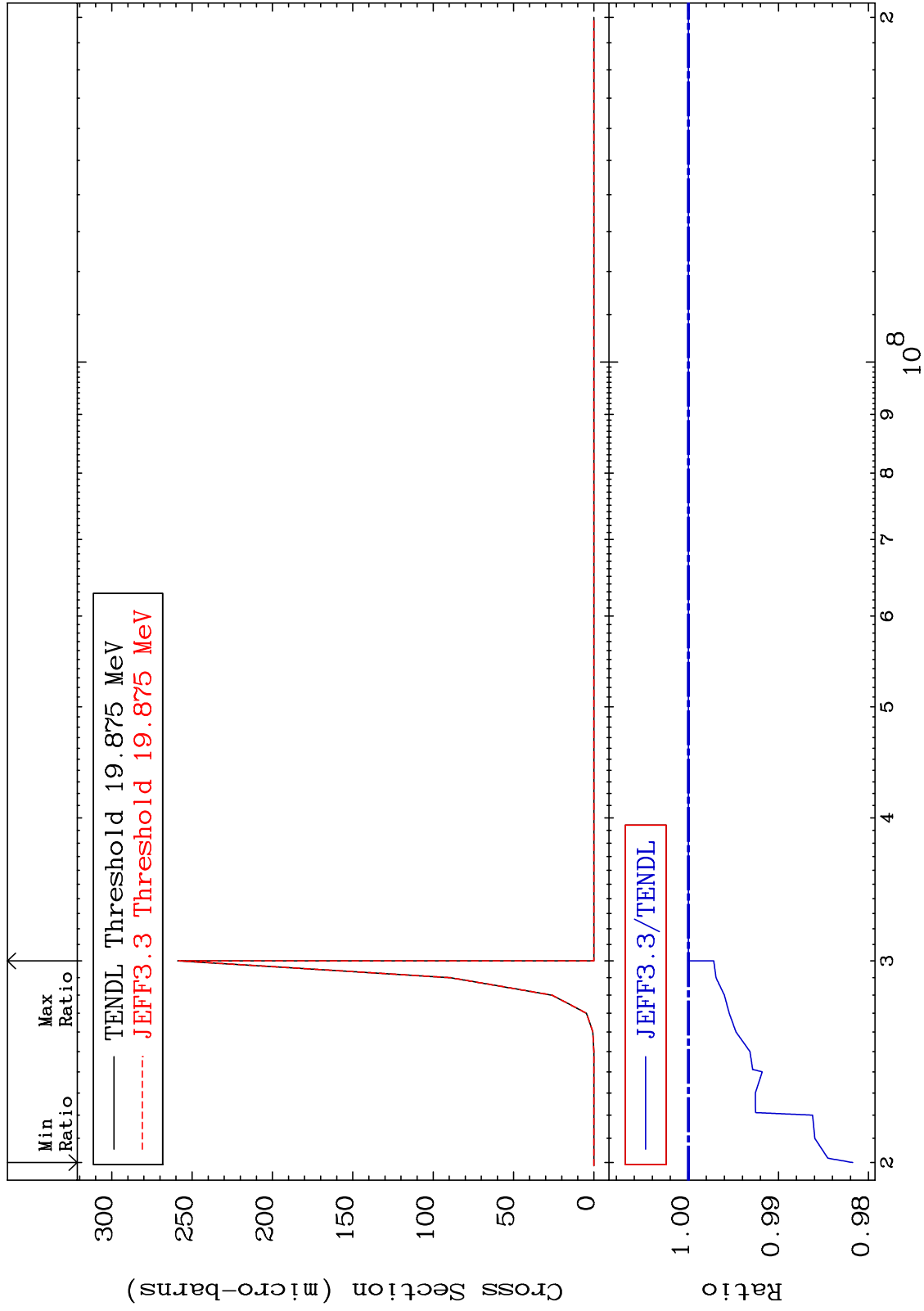
79 Incident Energy (eV) 68-Er-166

MAT 6837

(n,2n) d:67-Ho-163g

68-Er-166

Radionuclide Production Cross Section -1.824 To 0.000 %



80

Incident Energy (eV)

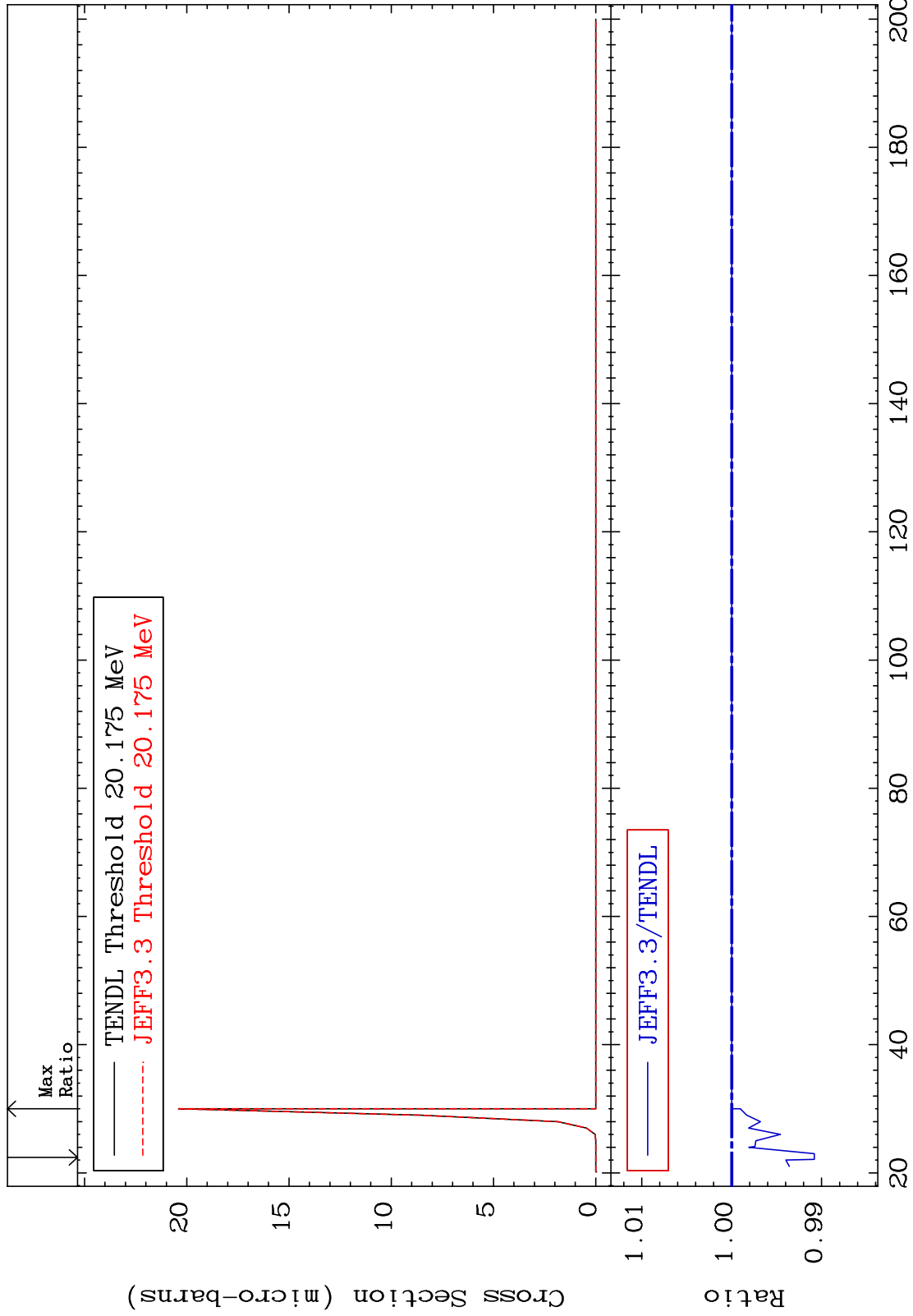
68-Er-166

MAT 6837

(n,2n) d:67-Ho-163m3

68-Er-166

Radionuclide Production Cross Section -0.918 To 0.000 %



81

Incident Energy (MeV)

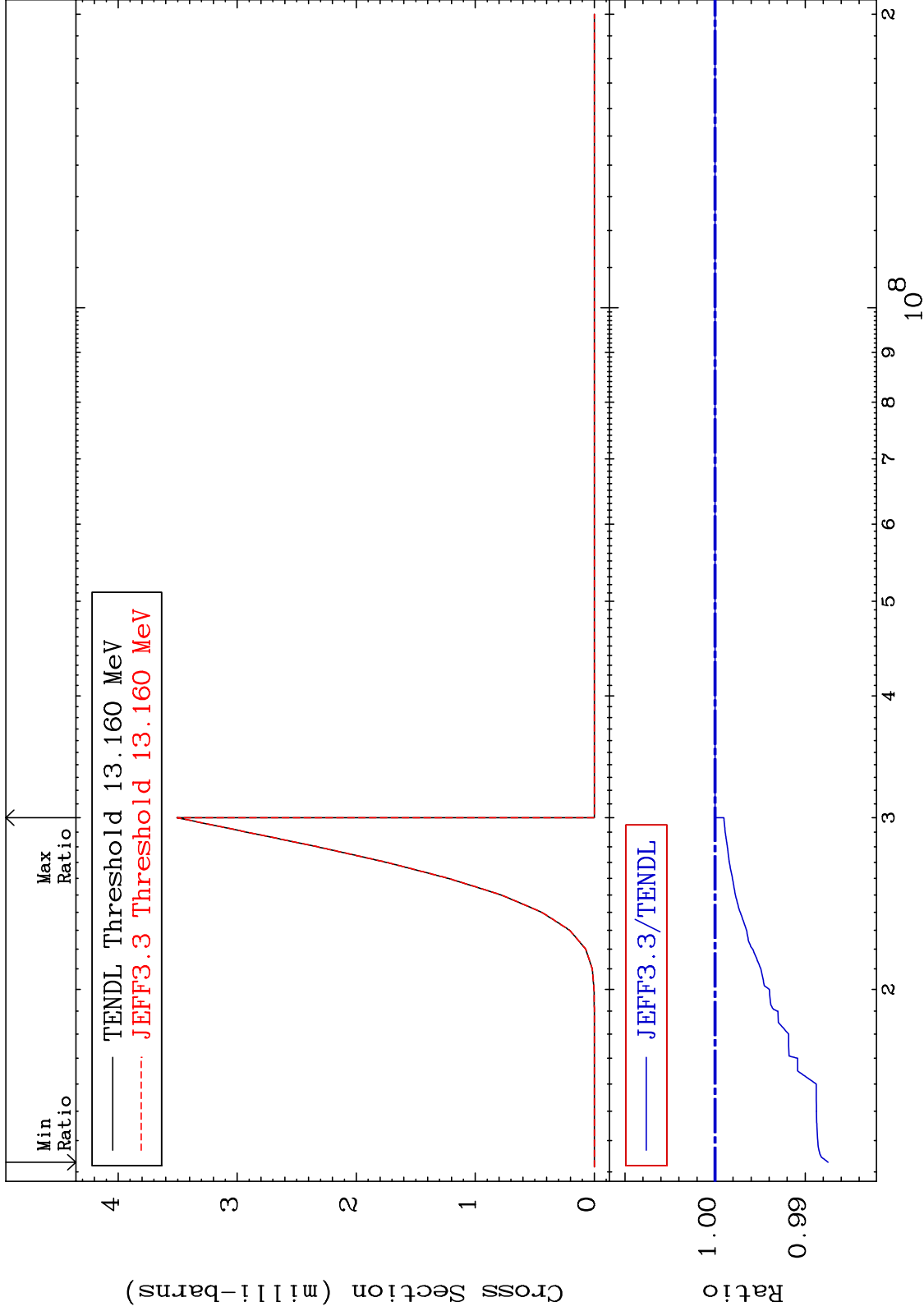
68-Er-166

MAT 6837

68-Er-166

(n, n') d:67-Ho-164g

Radionuclide Production Cross Section -1.255 To 0.000 %

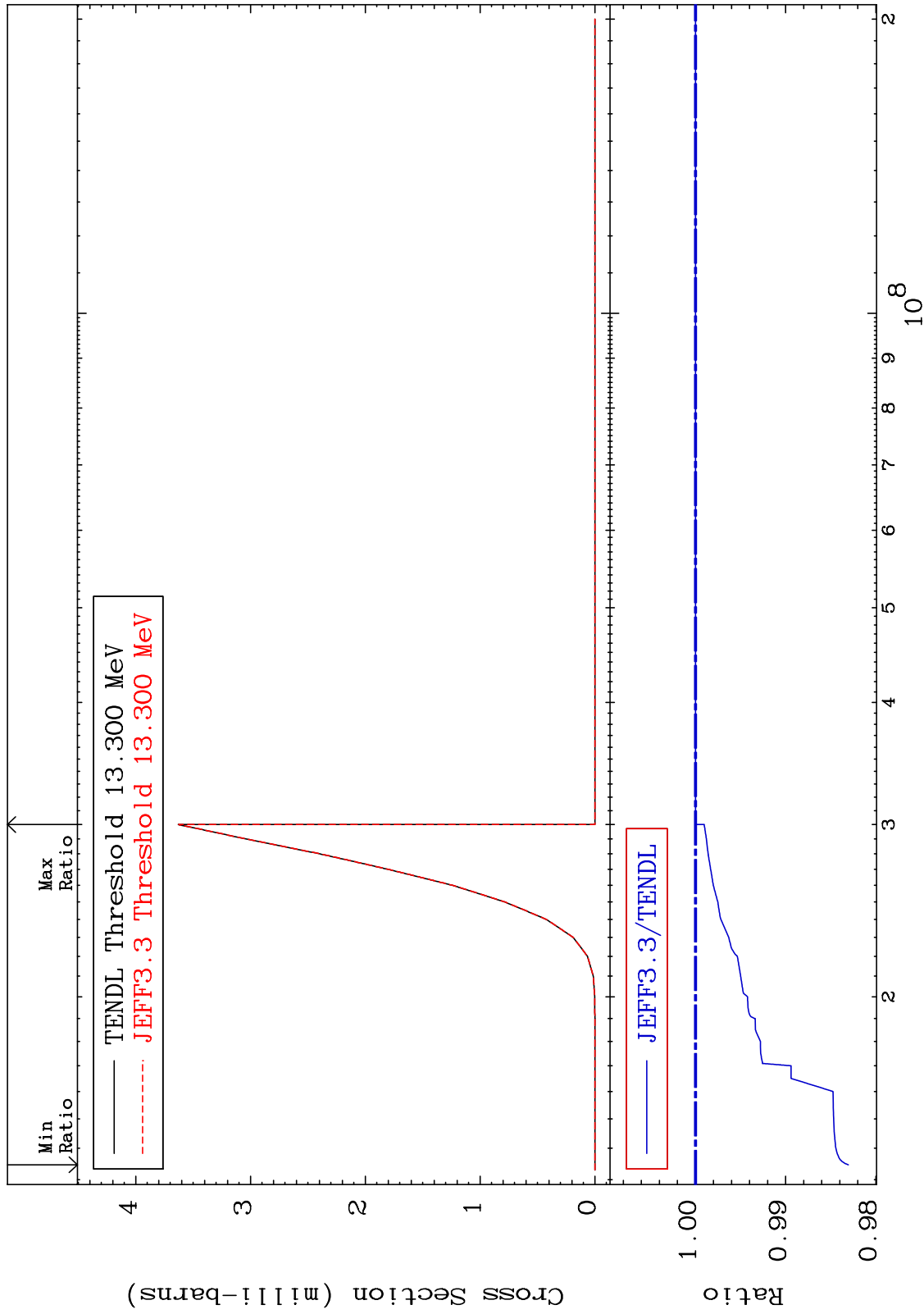


MAT 6837

(n, n') d:67-Ho-164m3

68-Er-166

Radionuclide Production Cross Section -1.694 To 0.000 %



83

Incident Energy (eV)

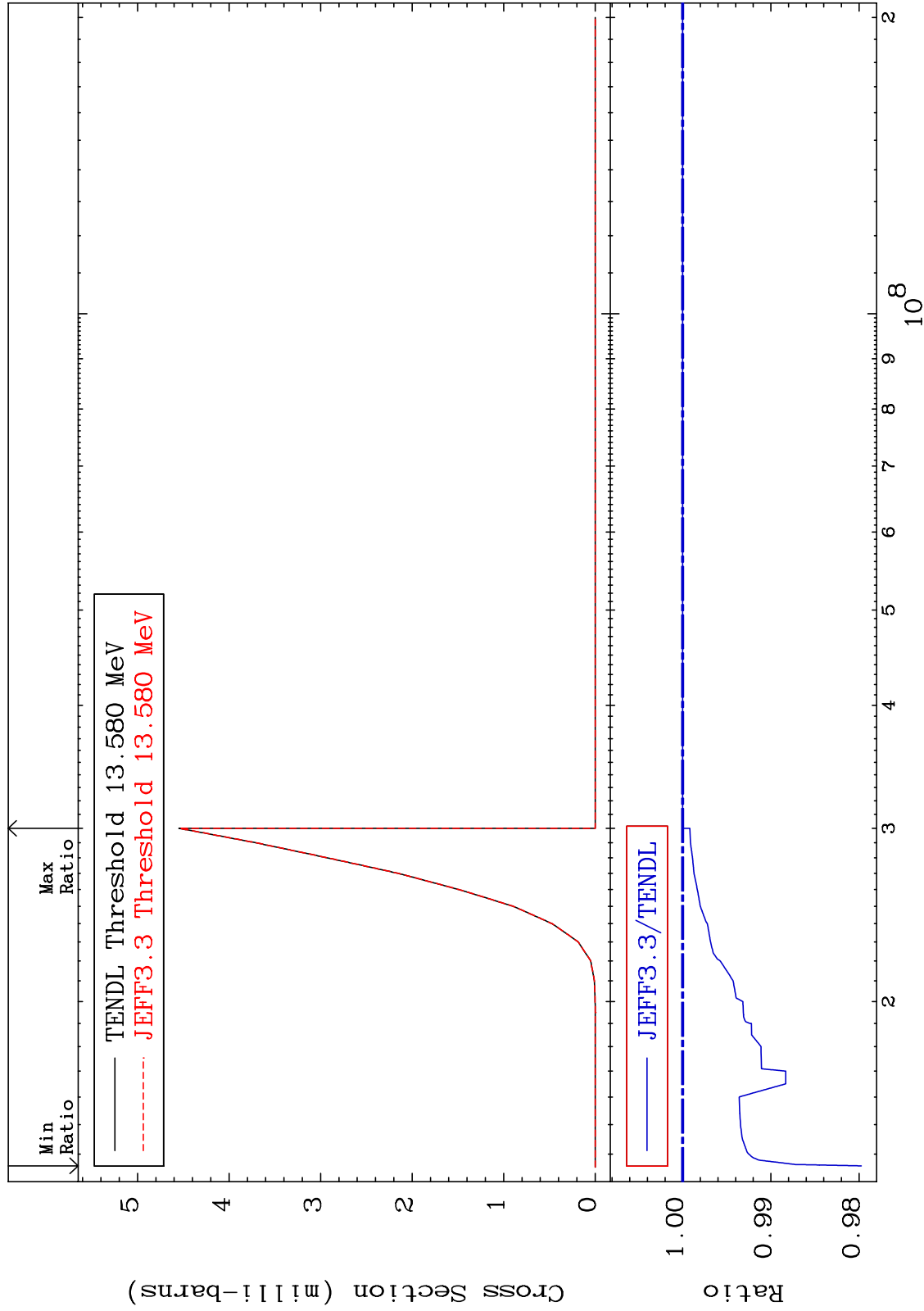
68-Er-166

MAT 6837

(n, n') t:67-Ho-163g

68-Er-166

Radionuclide Production Cross Section -2.025 To 0.000 %

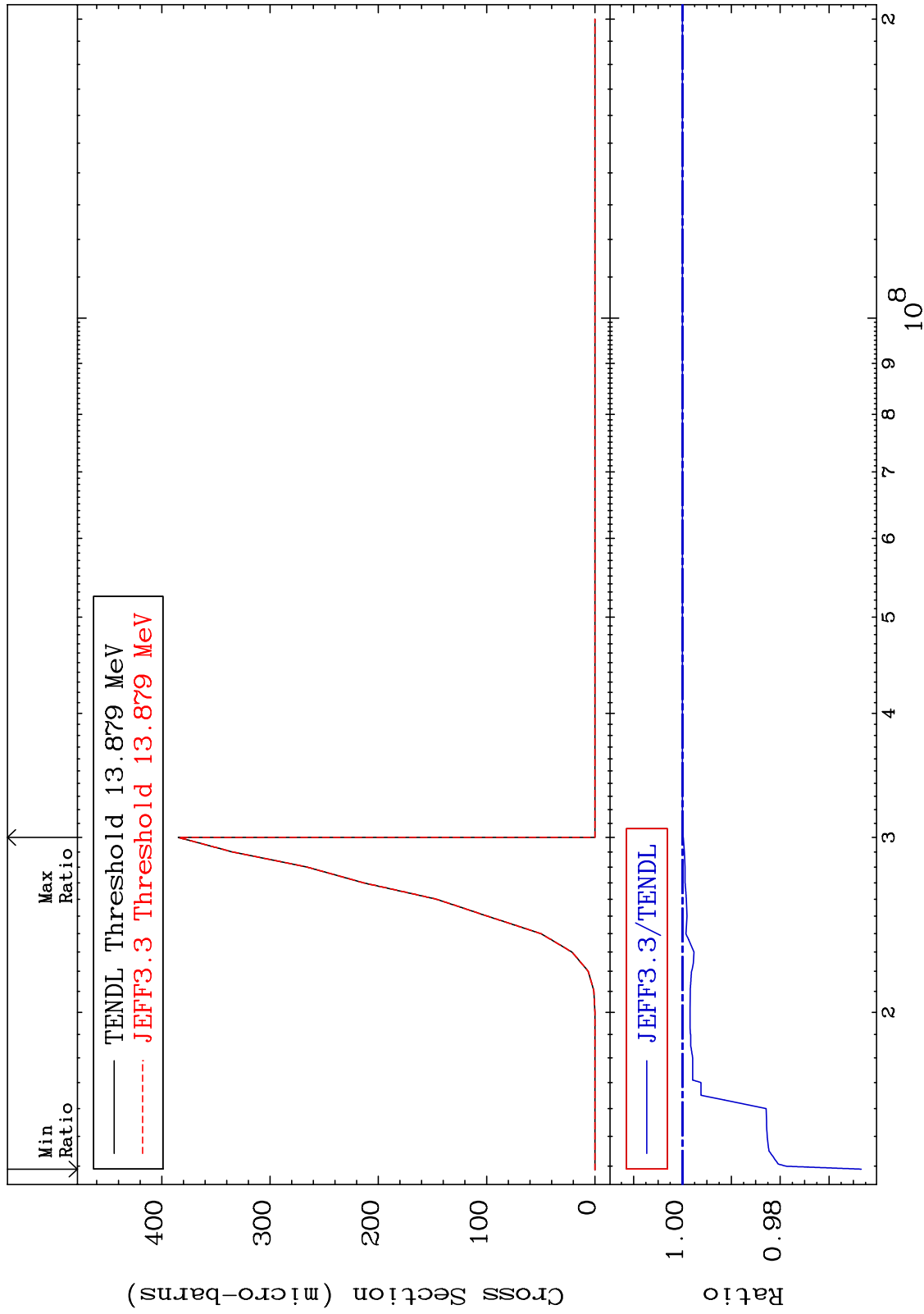


MAT 6837

(n,n') t:67-Ho-163m3

68-Er-166

Radionuclide Production Cross Section -3.661 To 0.000 %

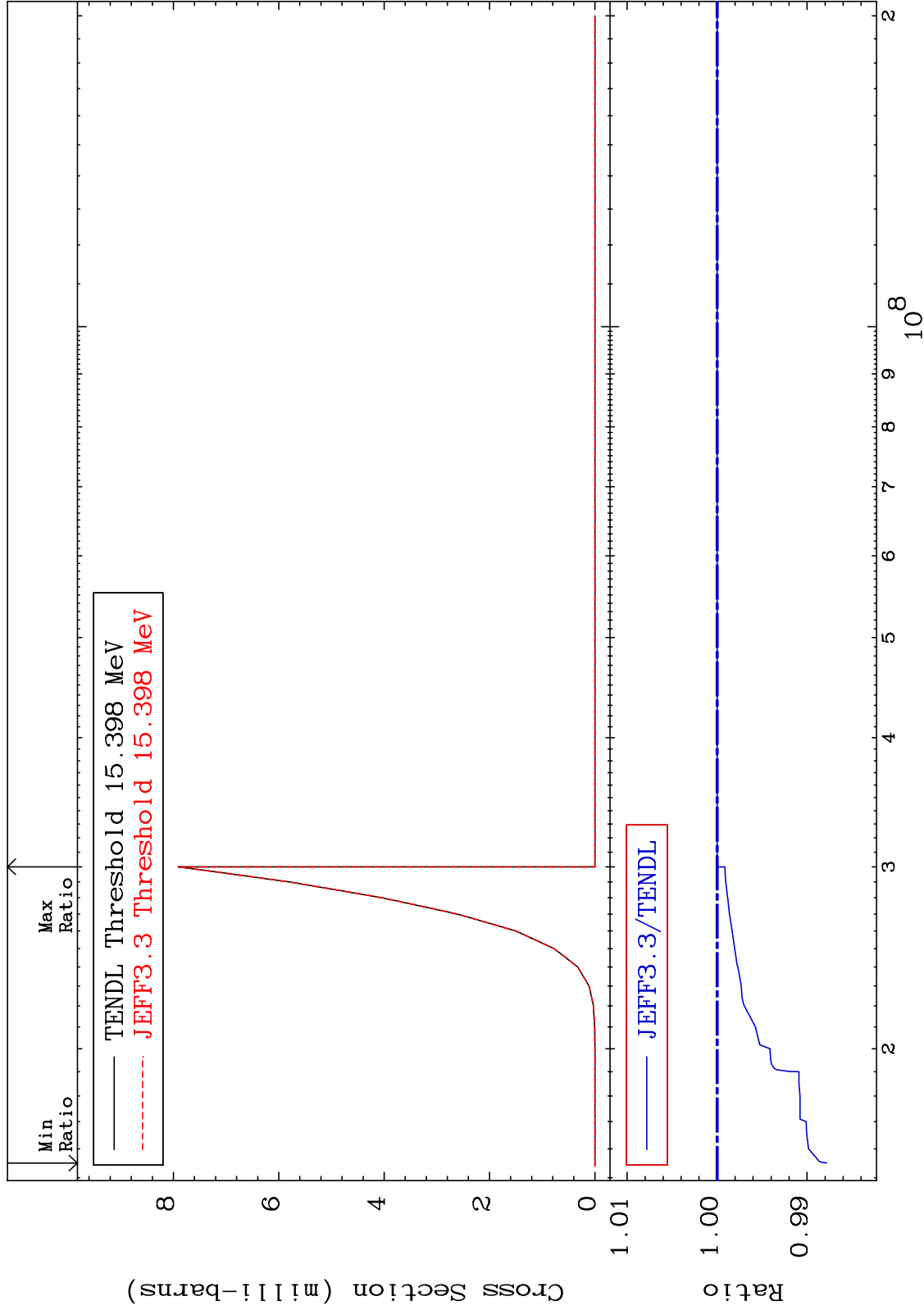


85

Incident Energy (eV)

68-Er-166

Radionuclide Production Cross Section -1.218 To 0.000 %

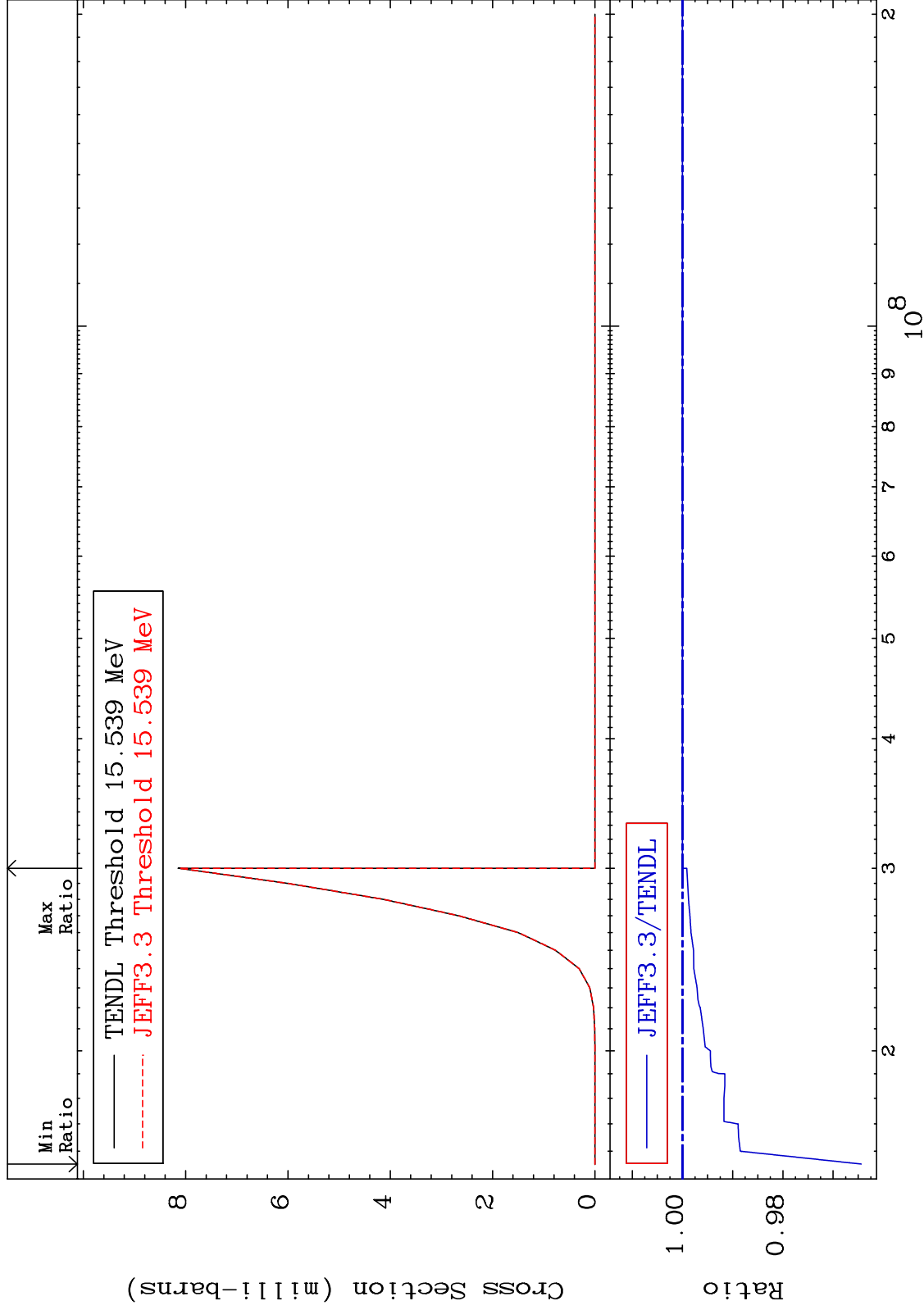


MAT 6837

(n,2n) p:67-Ho-164m3

68-Er-166

Radionuclide Production Cross Section -3.560 To 0.000 %



87

Incident Energy (eV)

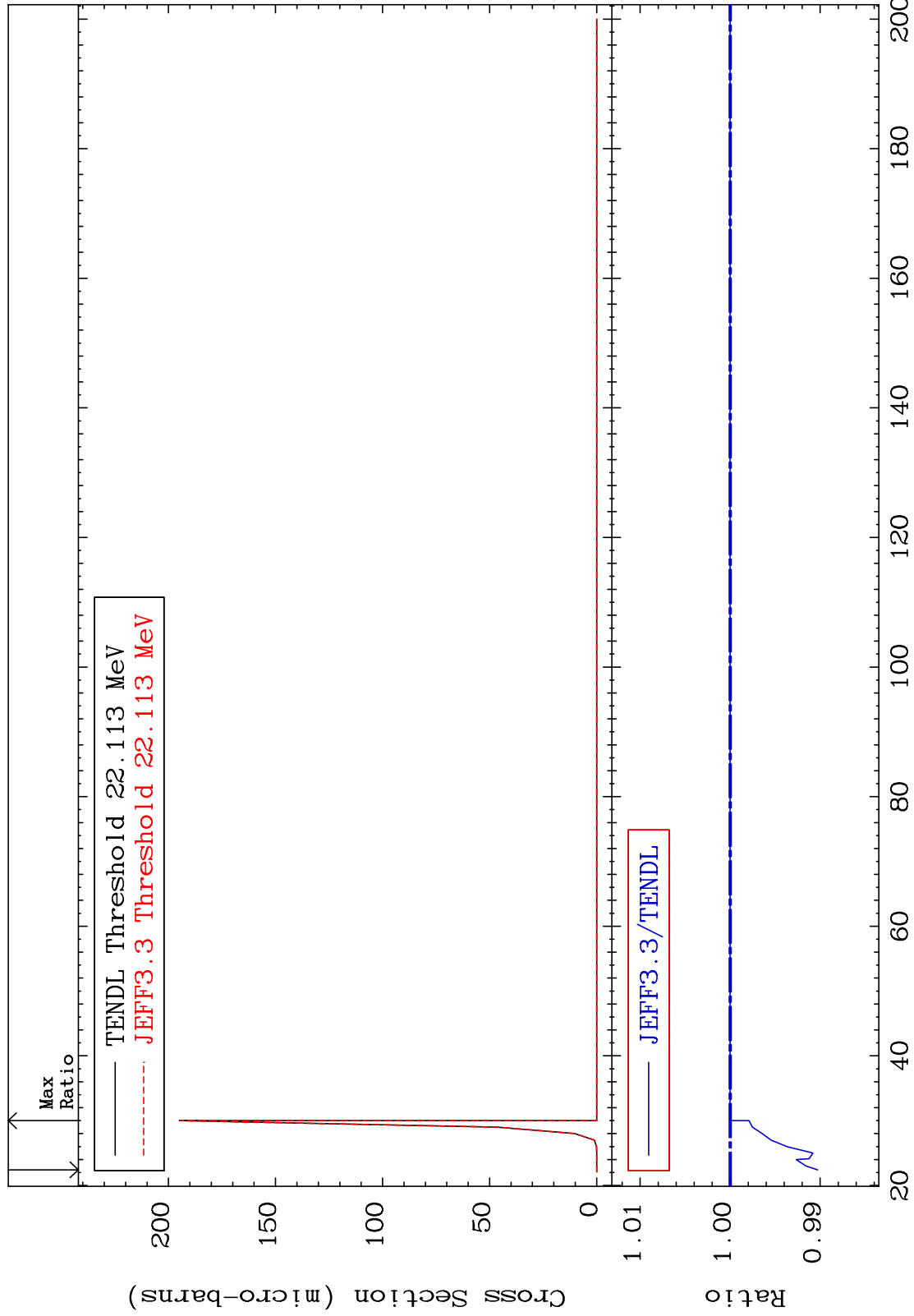
68-Er-166

MAT 6837

(n,3n) p:67-Ho-163g

68-Er-166

Radionuclide Production Cross Section -0.973 To 0.000 %

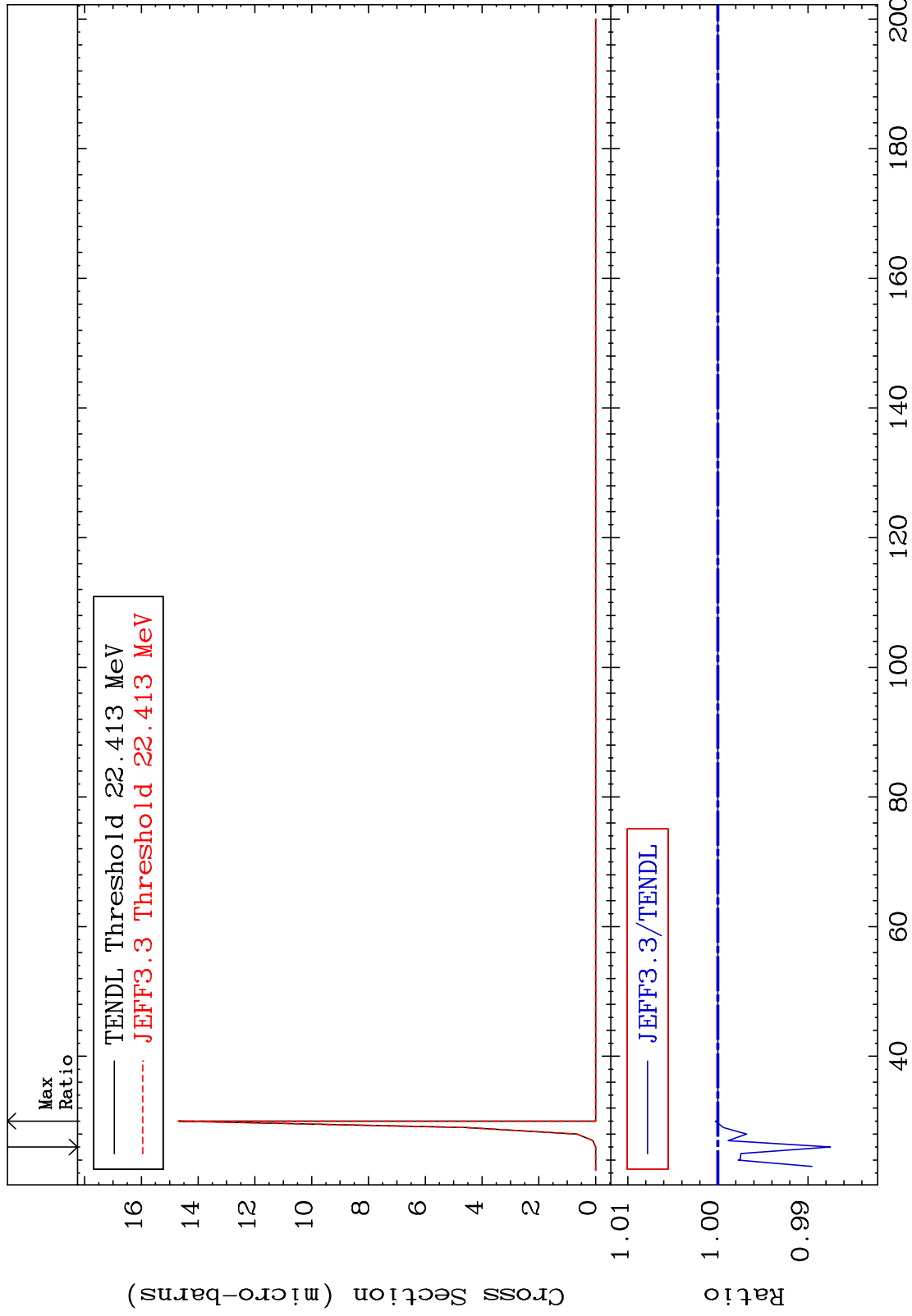


MAT 6837

(n,3n) p:67-Ho-163m3

68-Er-166

Radionuclide Production Cross Section -1.249 To 0.028 %

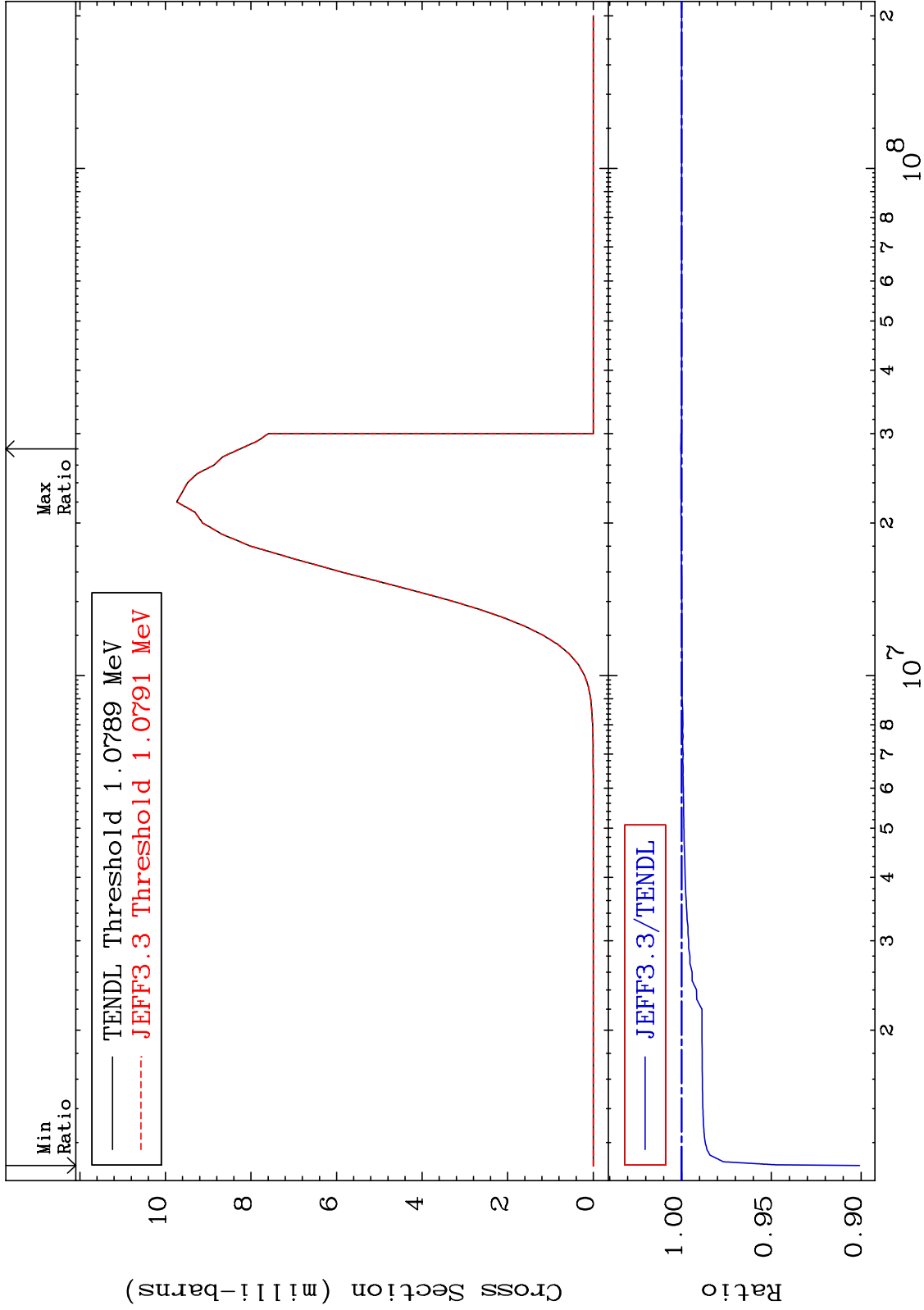


MAT 6837

(n,p):67-Ho-166g

68-Er-166

Radionuclide Production Cross Section -9.915 To 0.043 %

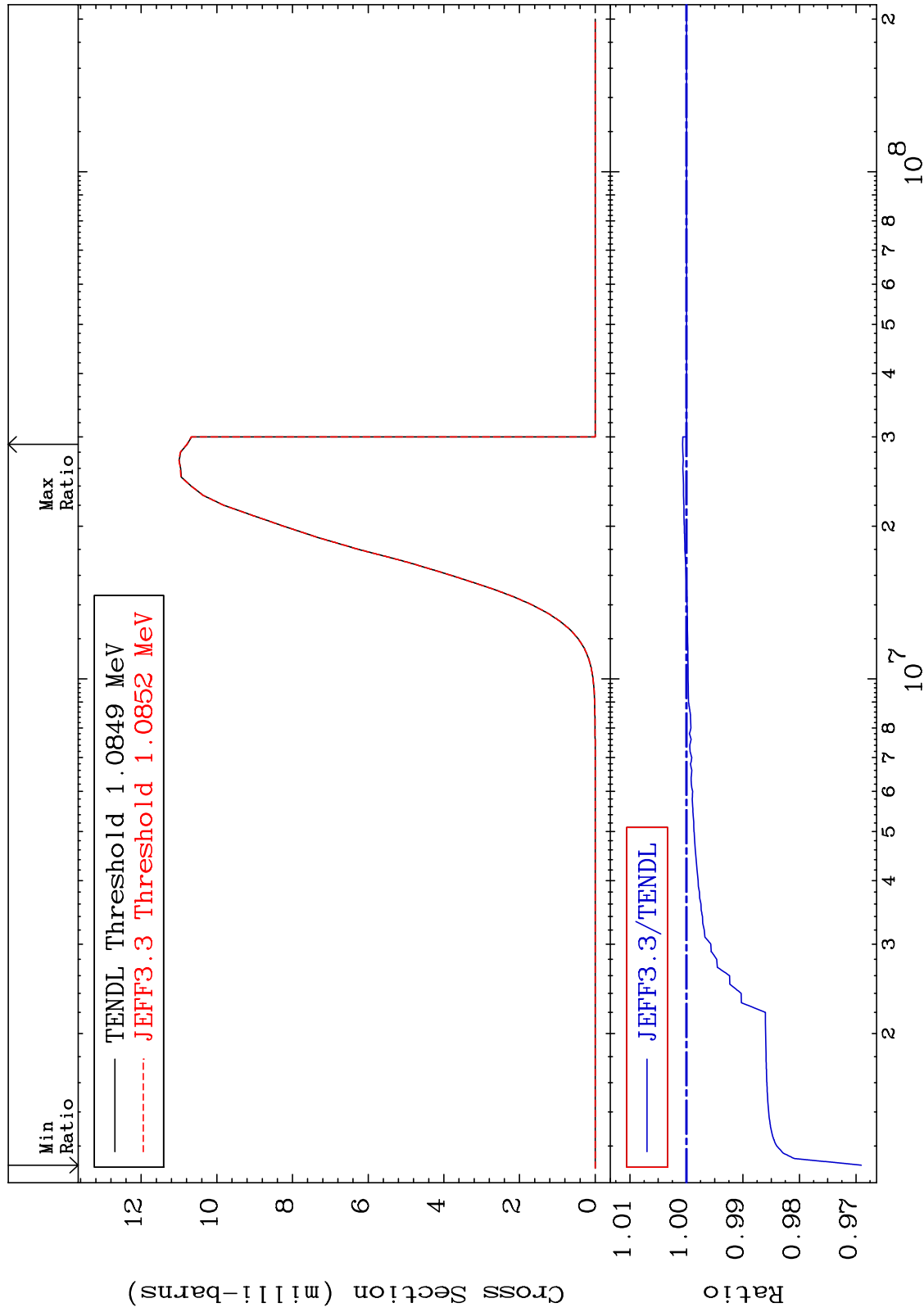


MAT 6837

(n,p):67-Ho-166m1

68-Er-166

Radionuclide Production Cross Section -3.095 To 0.067 %

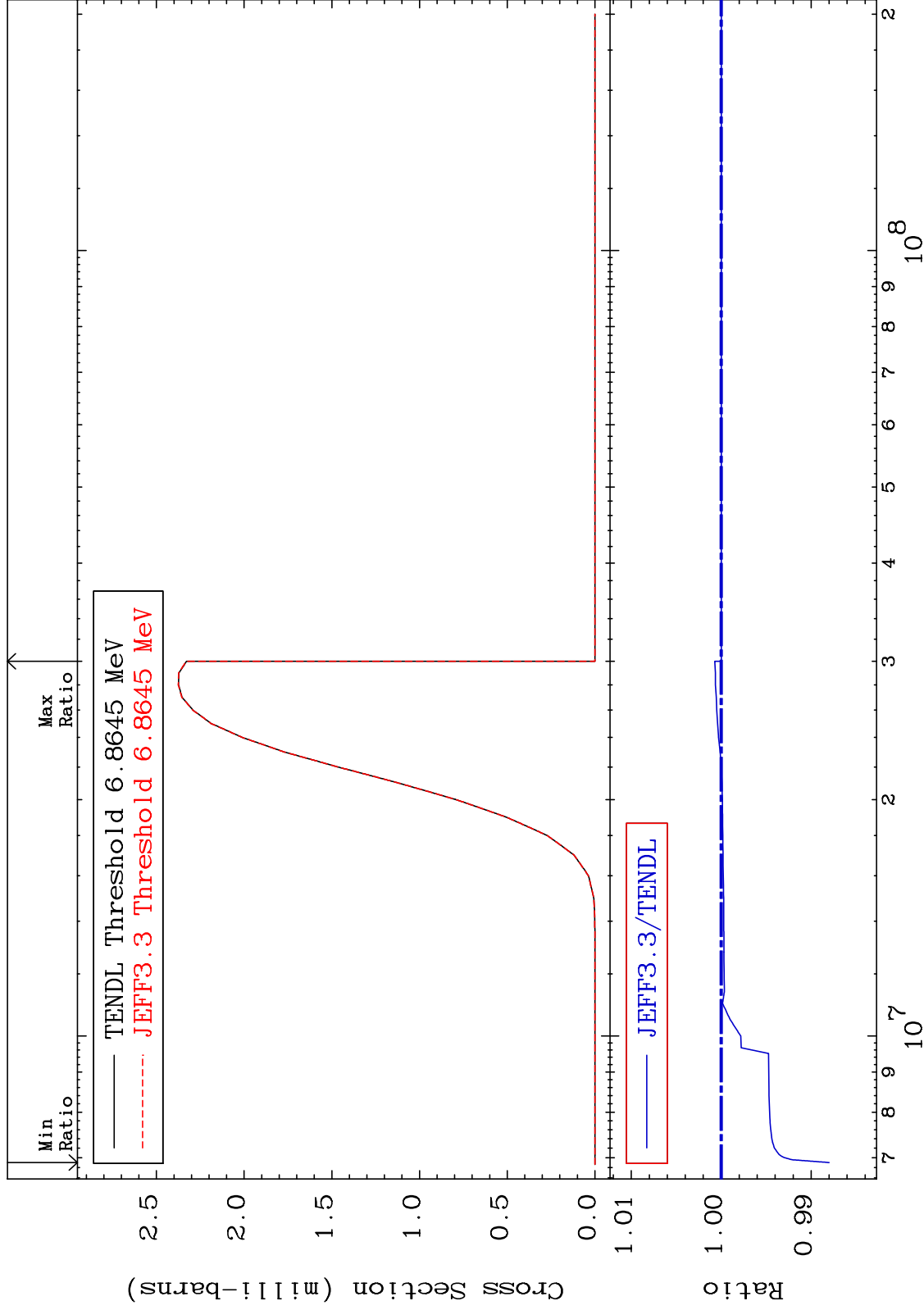


MAT 6837

(n,t):67-Ho-164g

68-Er-166

Radionuclide Production Cross Section -1.199 To 0.072 %



92

Incident Energy (eV)

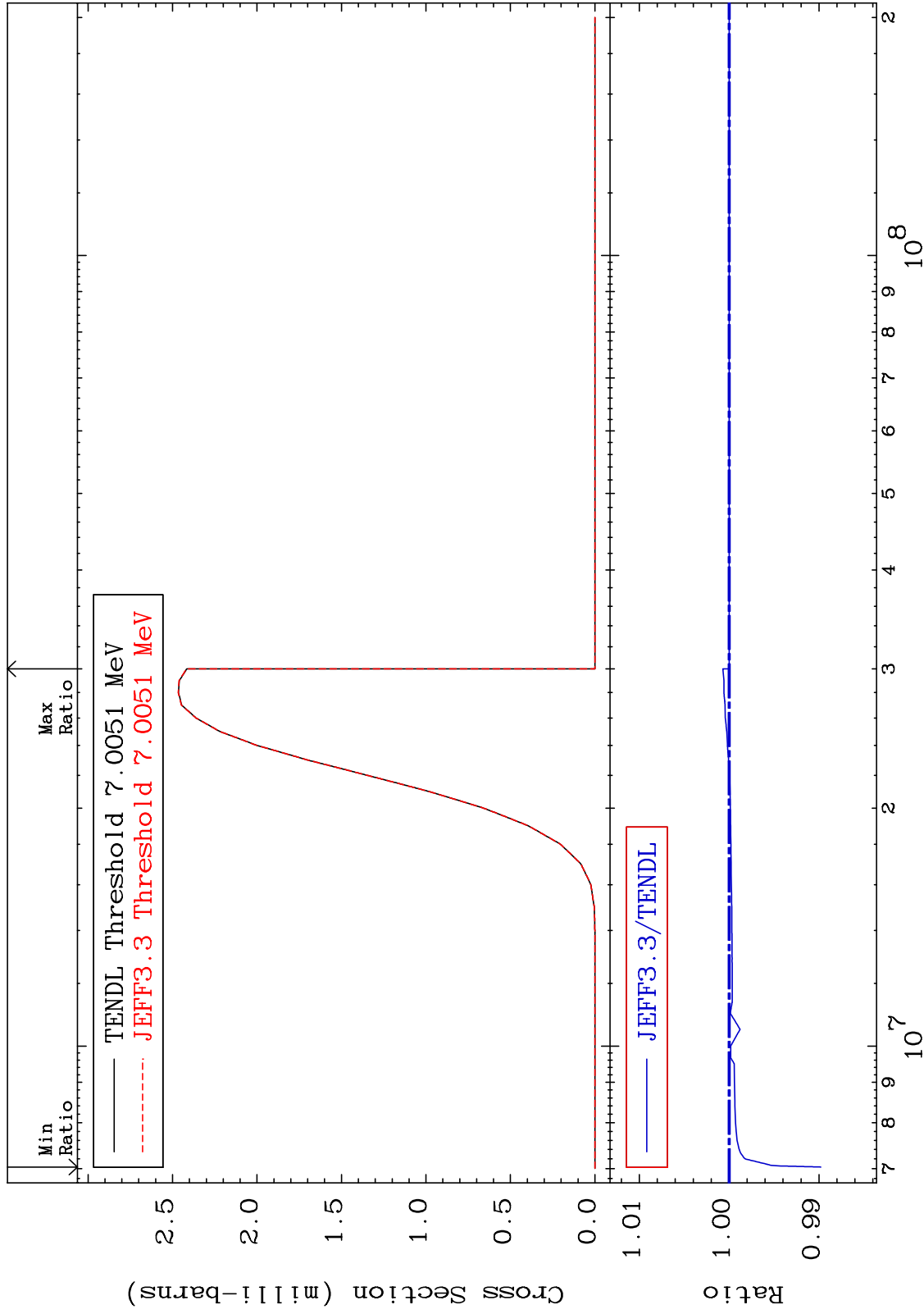
68-Er-166

MAT 6837

(n, t):67-Ho-164m3

68-Er-166

Radionuclide Production Cross Section -1.021 To 0.070 %



93

Incident Energy (eV)

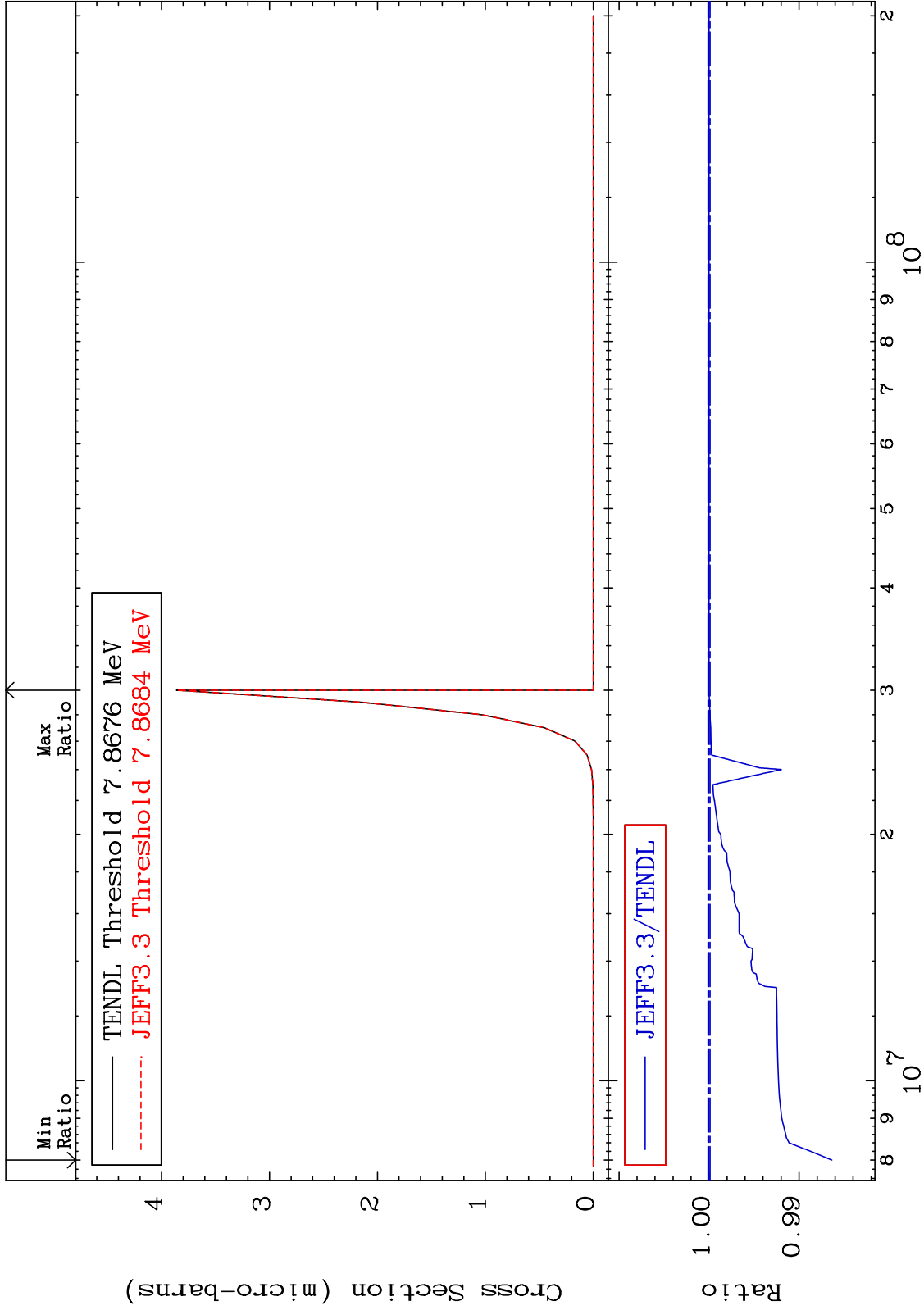
68-Er-166

MAT 6837

(n,2p):66-Dy-165g

68-Er-166

Radionuclide Production Cross Section -1.363 To 0.004 %



94

Incident Energy (eV)

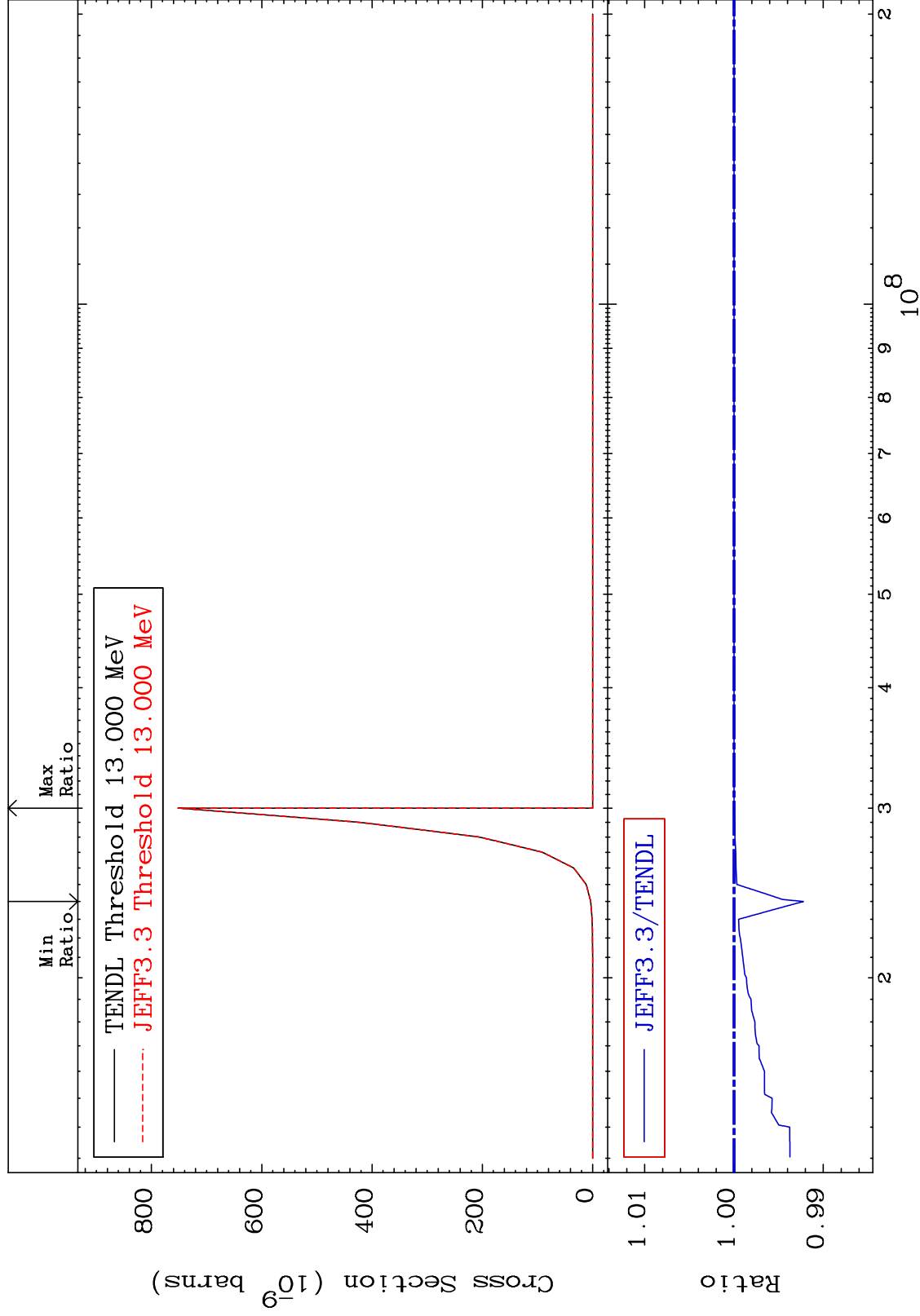
68-Er-166

MAT 6837

(n,2p):66-Dy-165m2

68-Er-166

Radionuclide Production Cross Section -0.777 To 0.000 %



95

Incident Energy (eV)

68-Er-166