

Program Complot  
(Version 2021-1)

by

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(Present Contact Information)

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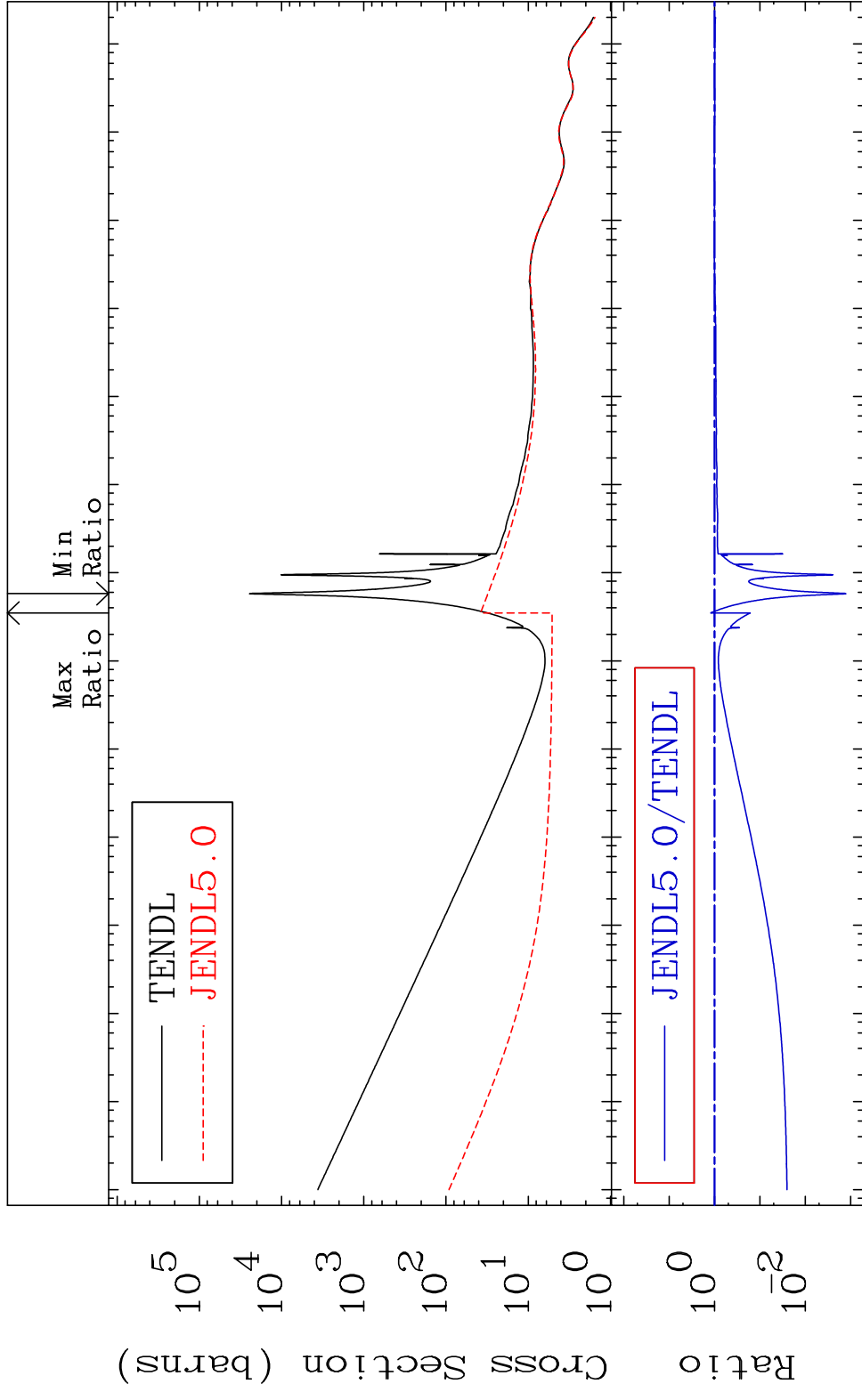
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 4123

Total  
Cross Section -99.87 To 21.67 %

41-Nb-92m

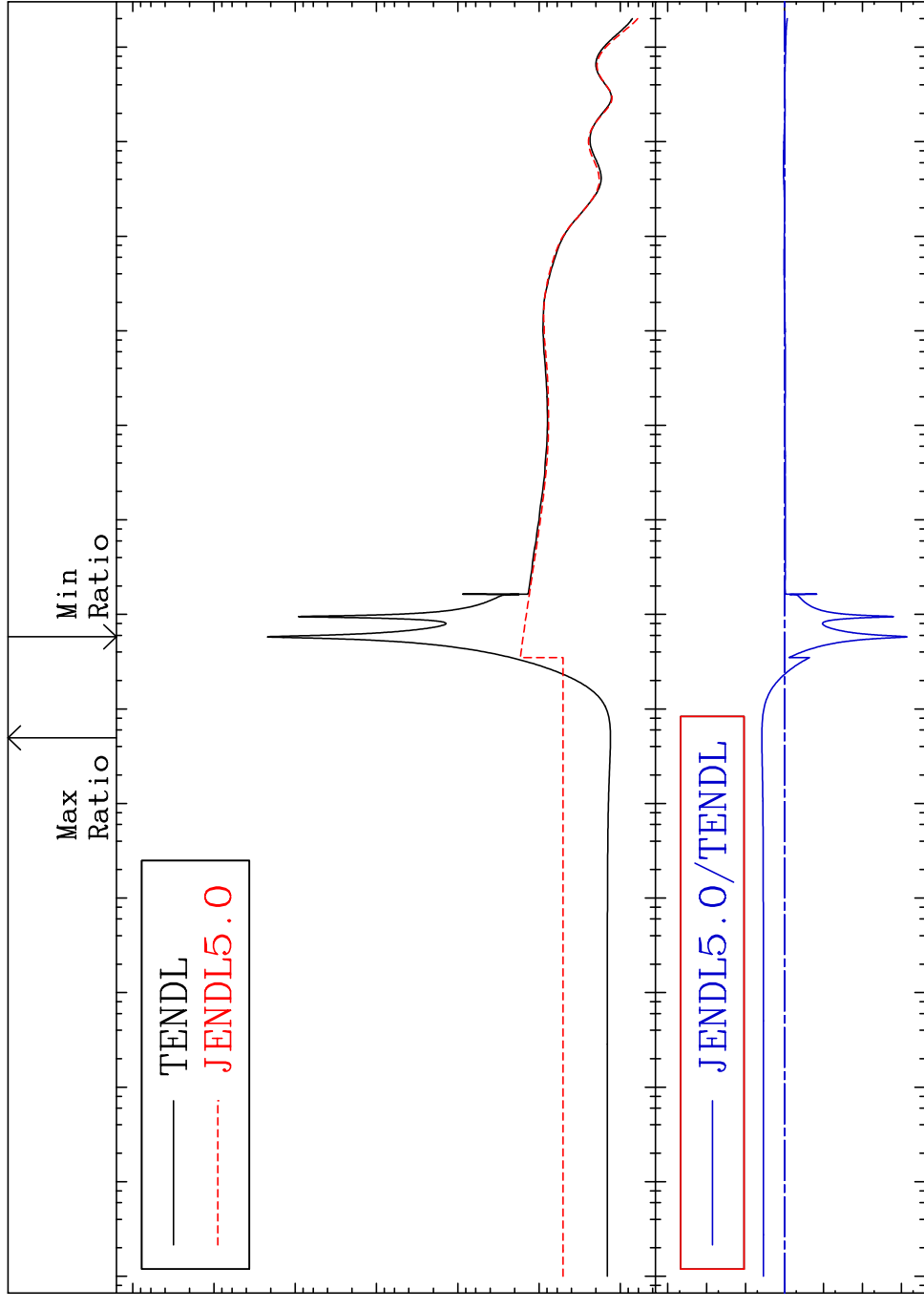


1 Incident Energy (eV) 41-Nb-92m

MAT 4123

Elastic Cross Section -99.93 To 284.0 %

41-Nb-92m



Cross Section (barns)  
Ratio

10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

2 Incident Energy (eV) 41-Nb-92m

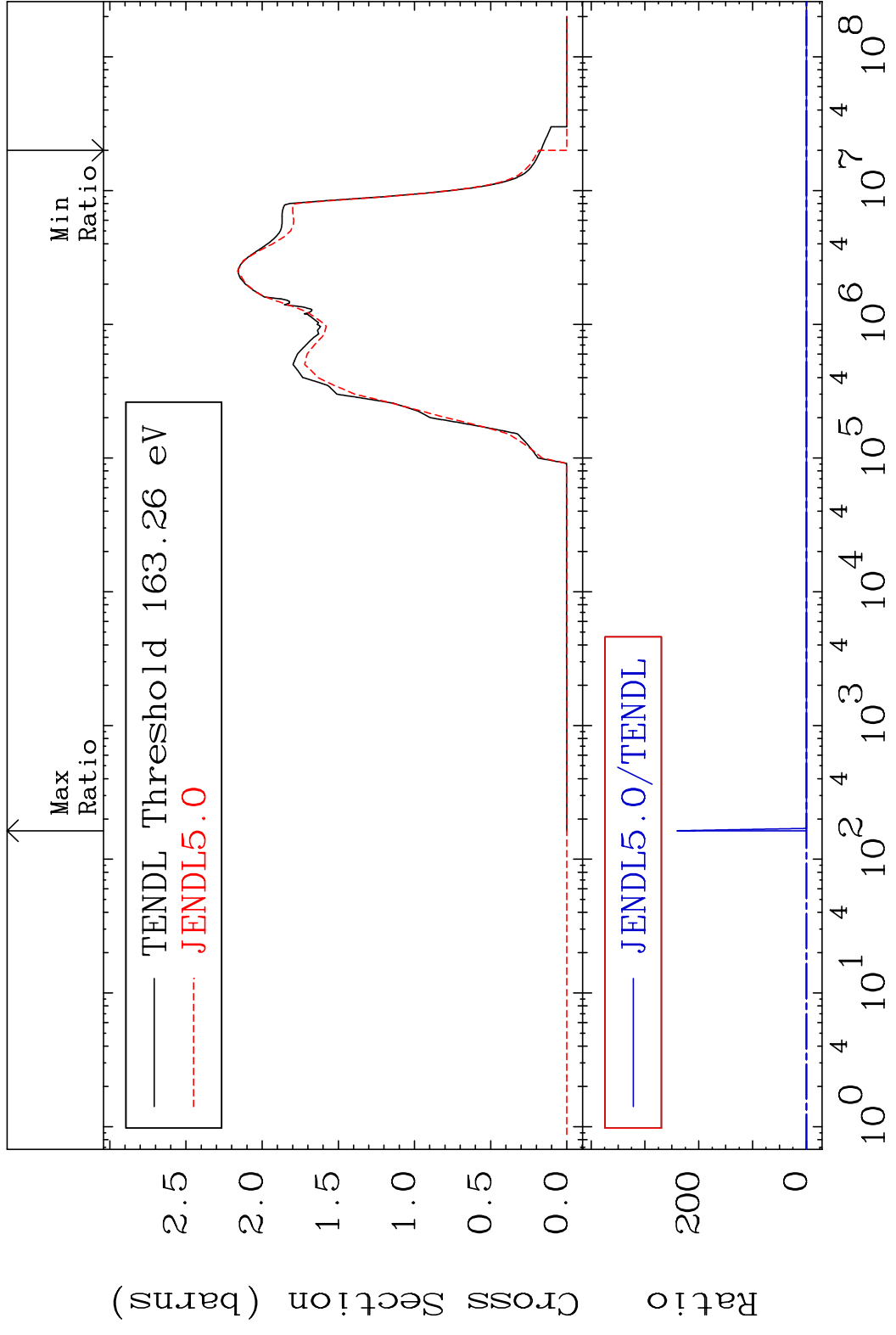
MAT 4123

Inelastic

41-Nb-92m

Cross Section

-100.0 To 9999. %



3

Incident Energy (eV)

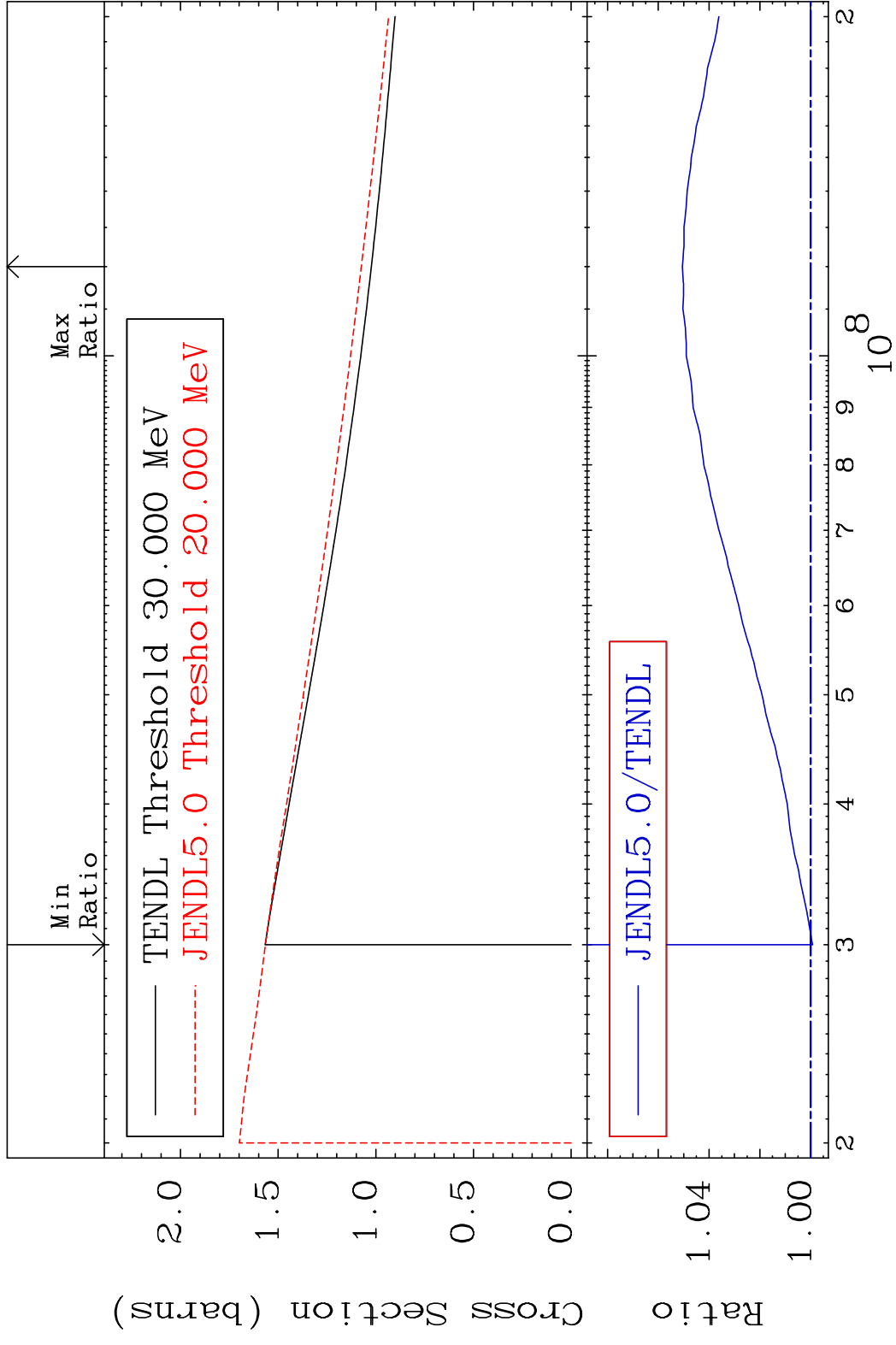
41-Nb-92m

MAT 4123

(n, remainder)

41-Nb-92m

Cross Section -0.075 To 5.052 %



4

Incident Energy (eV)

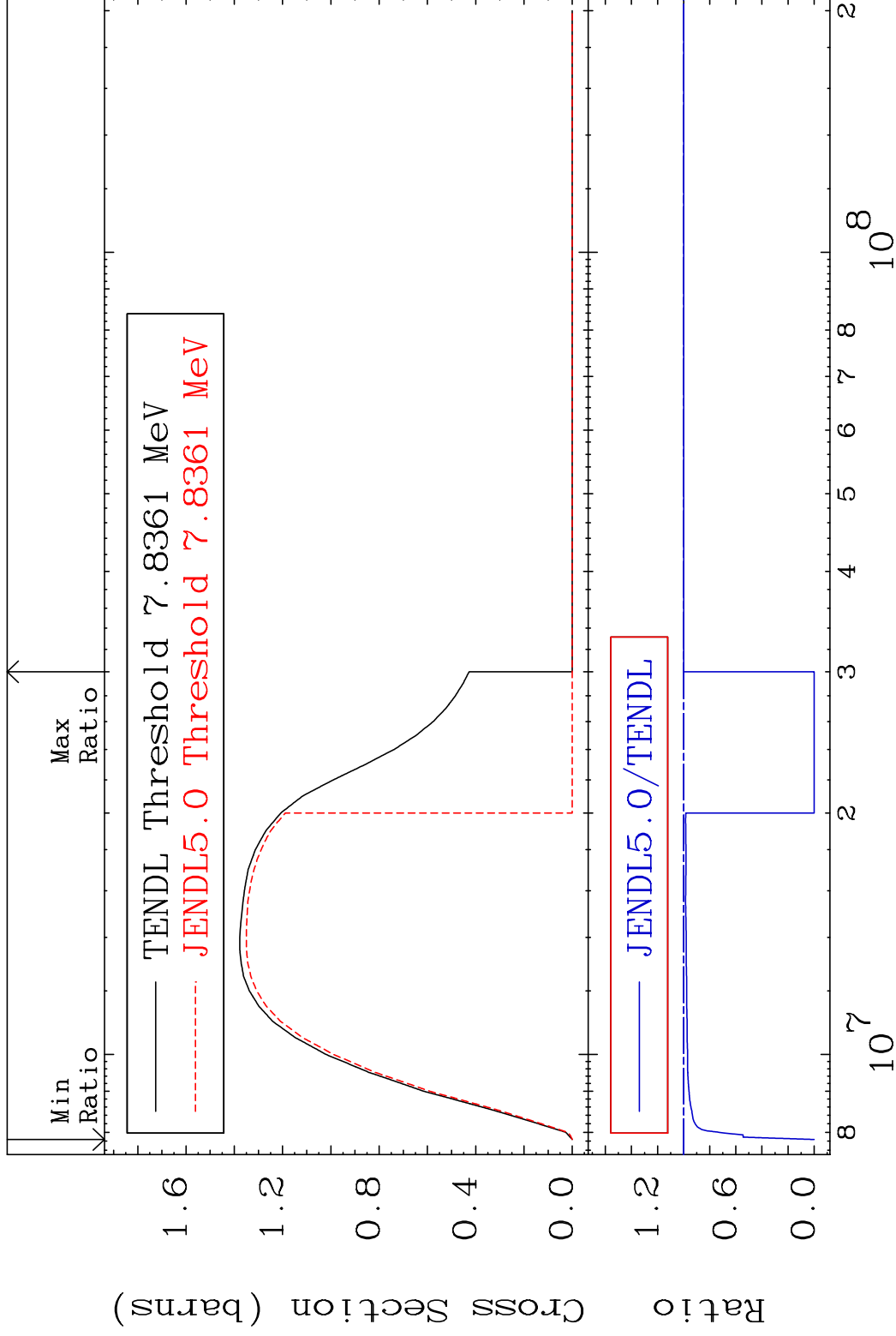
41-Nb-92m

MAT 4123

(n,2n)

41-Nb-92m

Cross Section -100.0 To 0.000 %

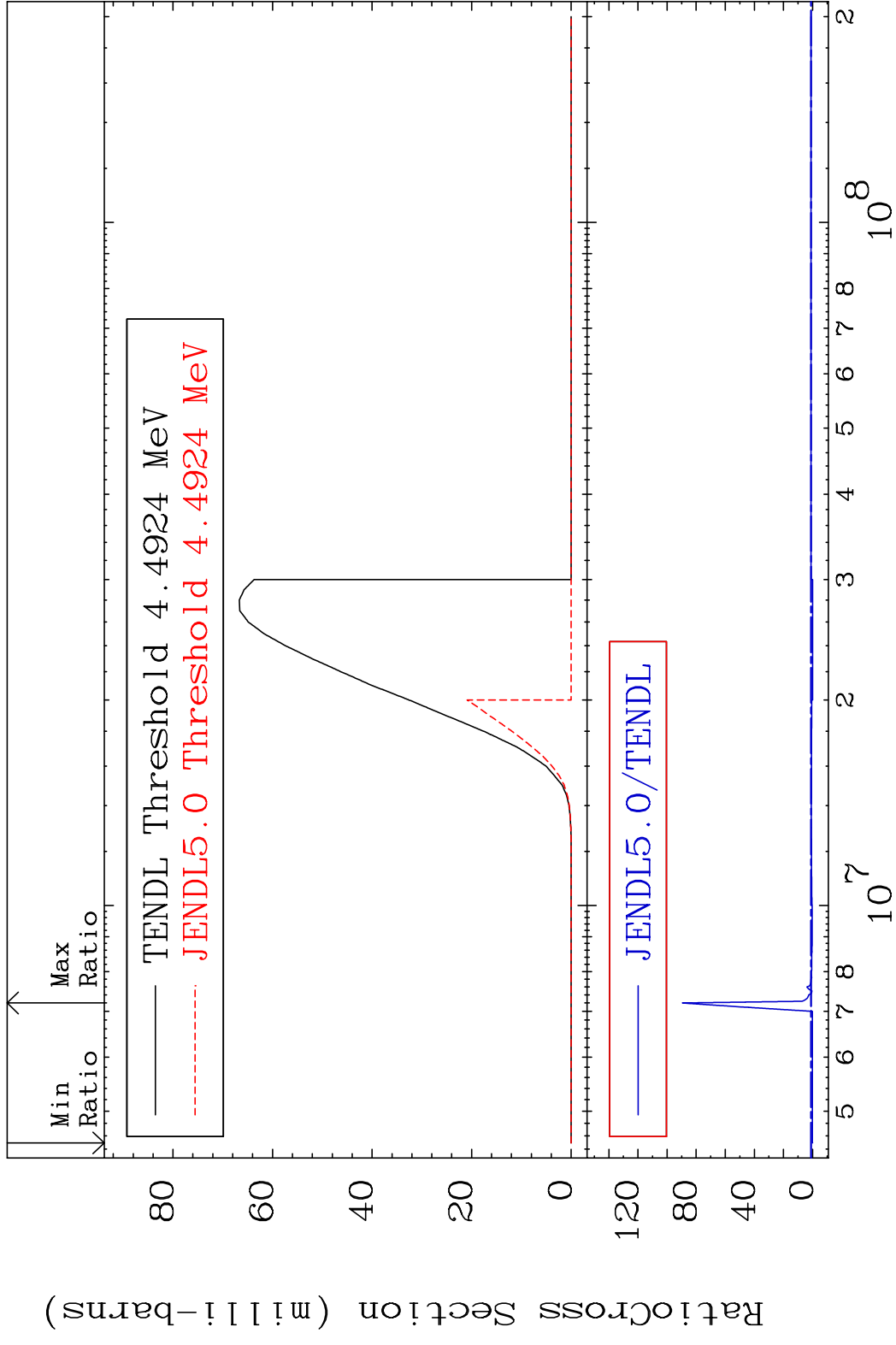


5

Incident Energy (eV)

41-Nb-92m

MAT 4123 (n, n')  $\alpha$  41-Nb-92m  
 Cross Section -100.0 To 8849. %

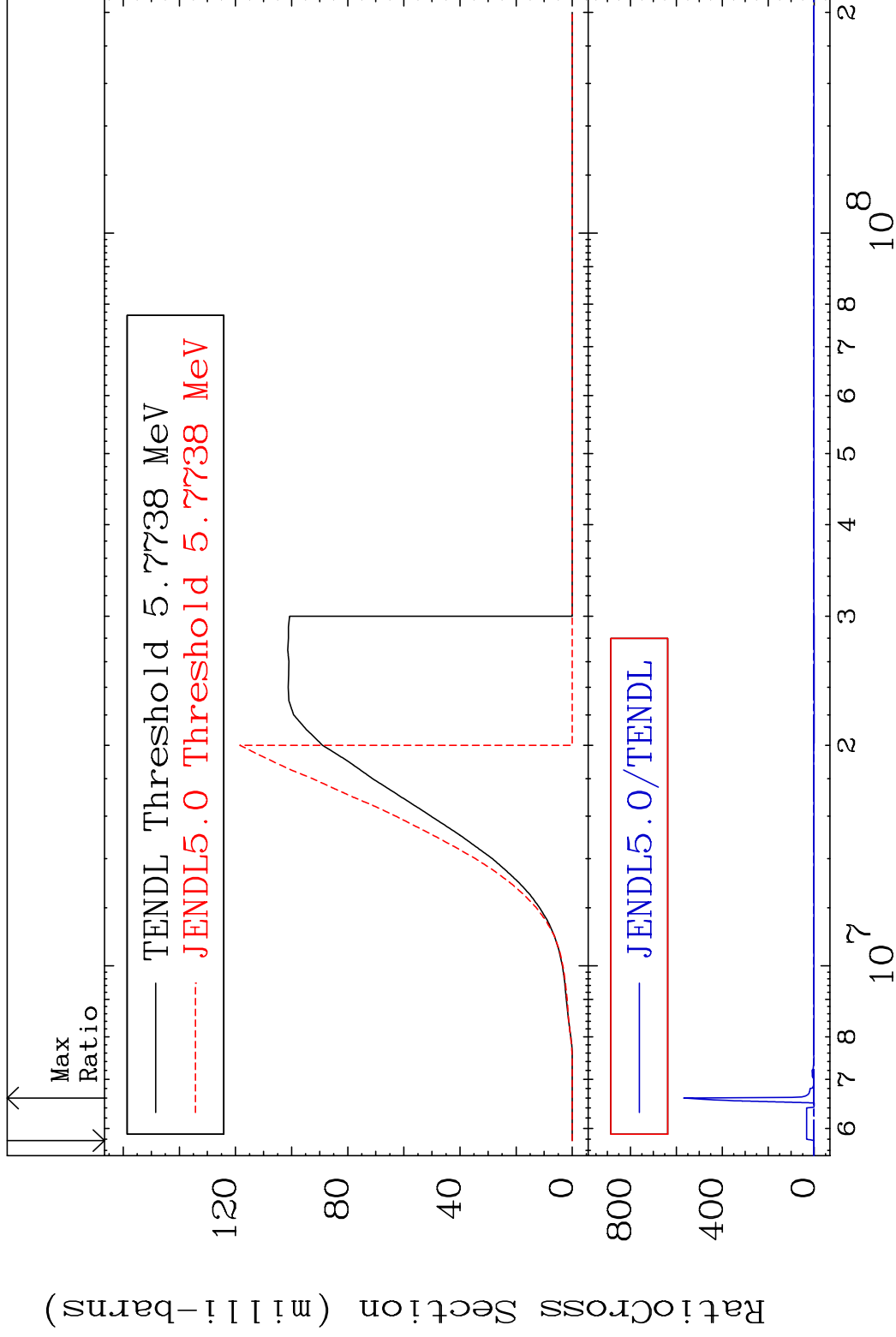


MAT 4123

(n, n') p

41-Nb-92m

Cross Section -100.0 To 9999. %



7

Incident Energy (eV)

41-Nb-92m

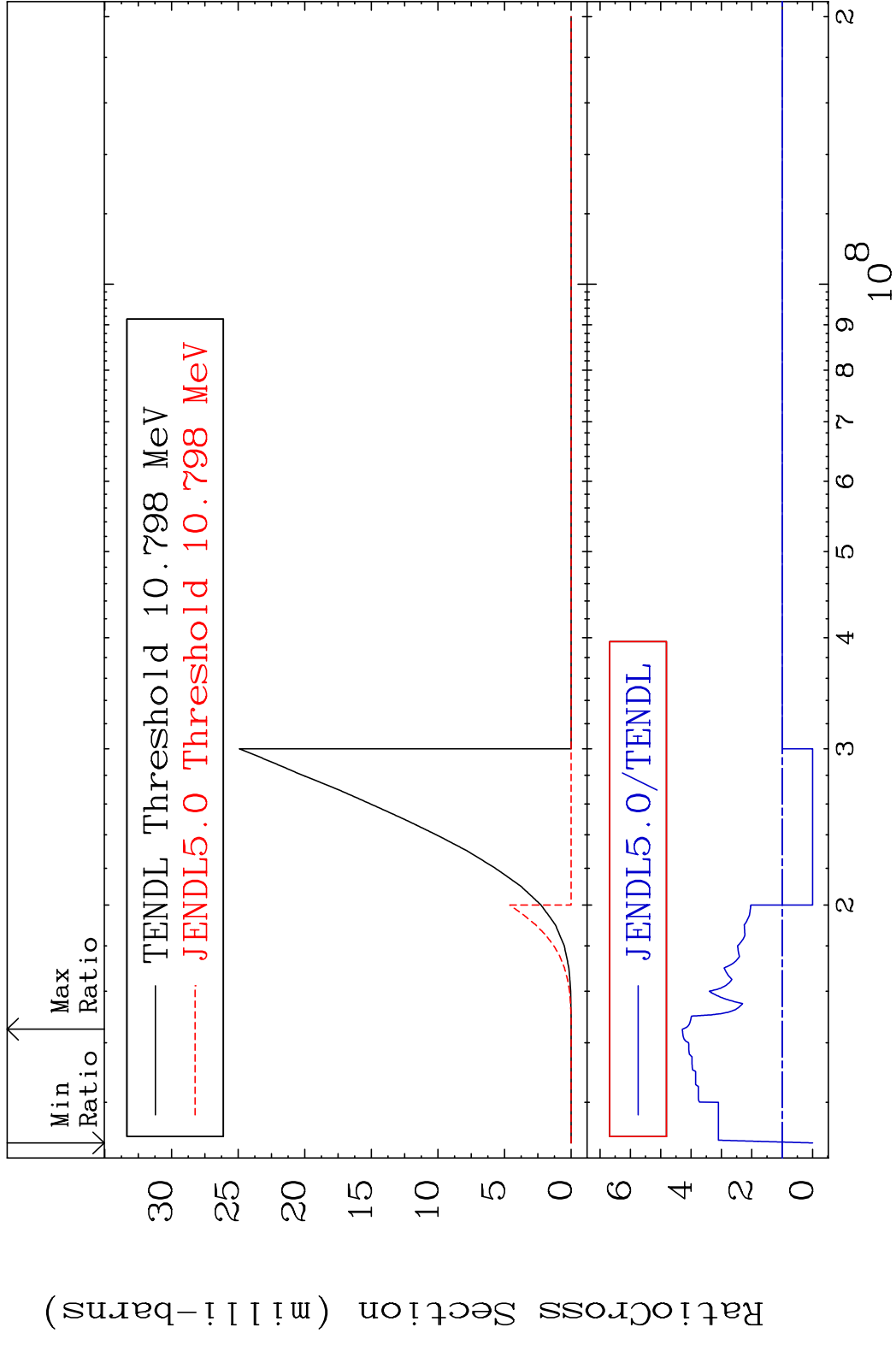


MAT 4123

(n, n') d

41-Nb-92m

Cross Section -100.0 To 328.8 %

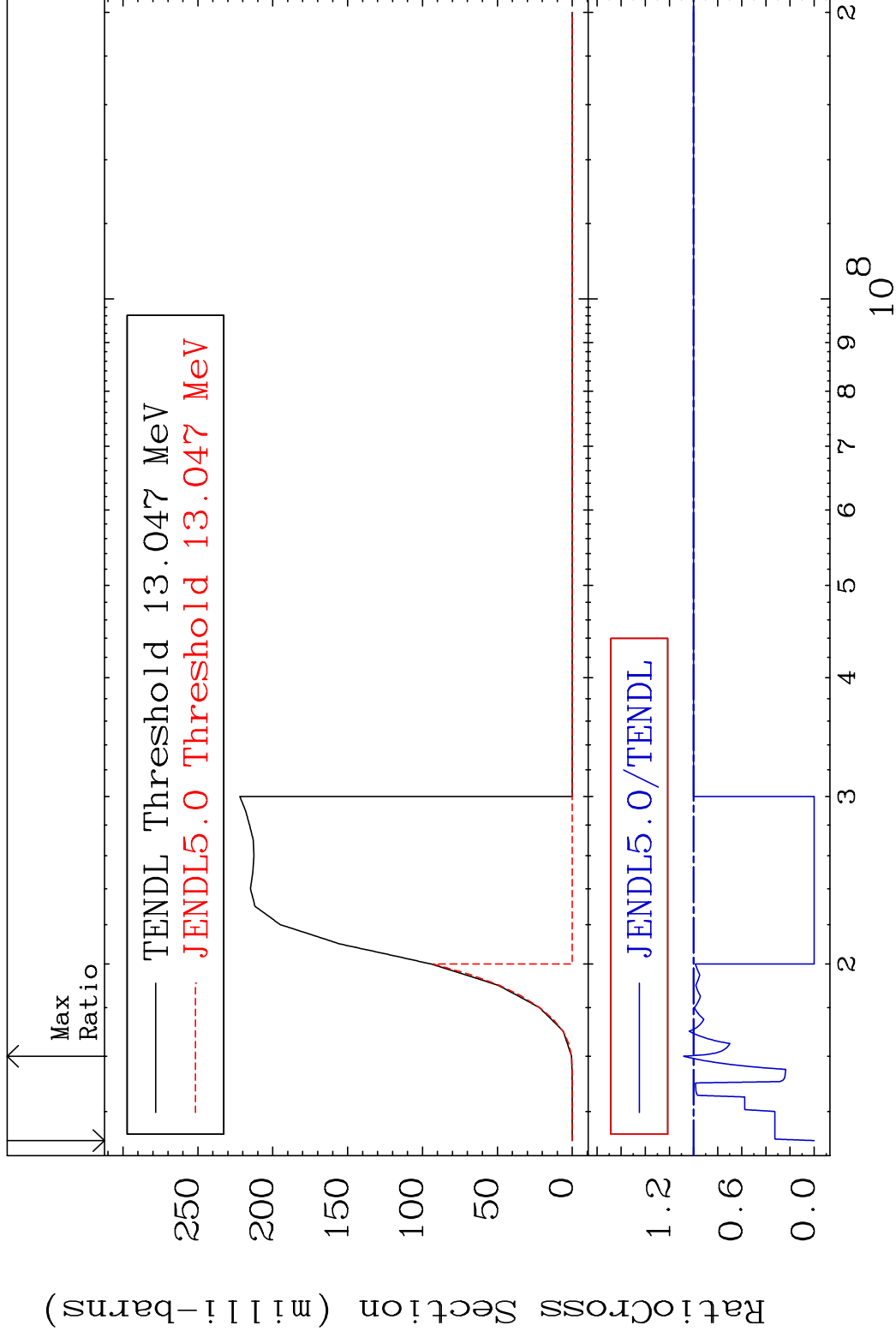


MAT 4123

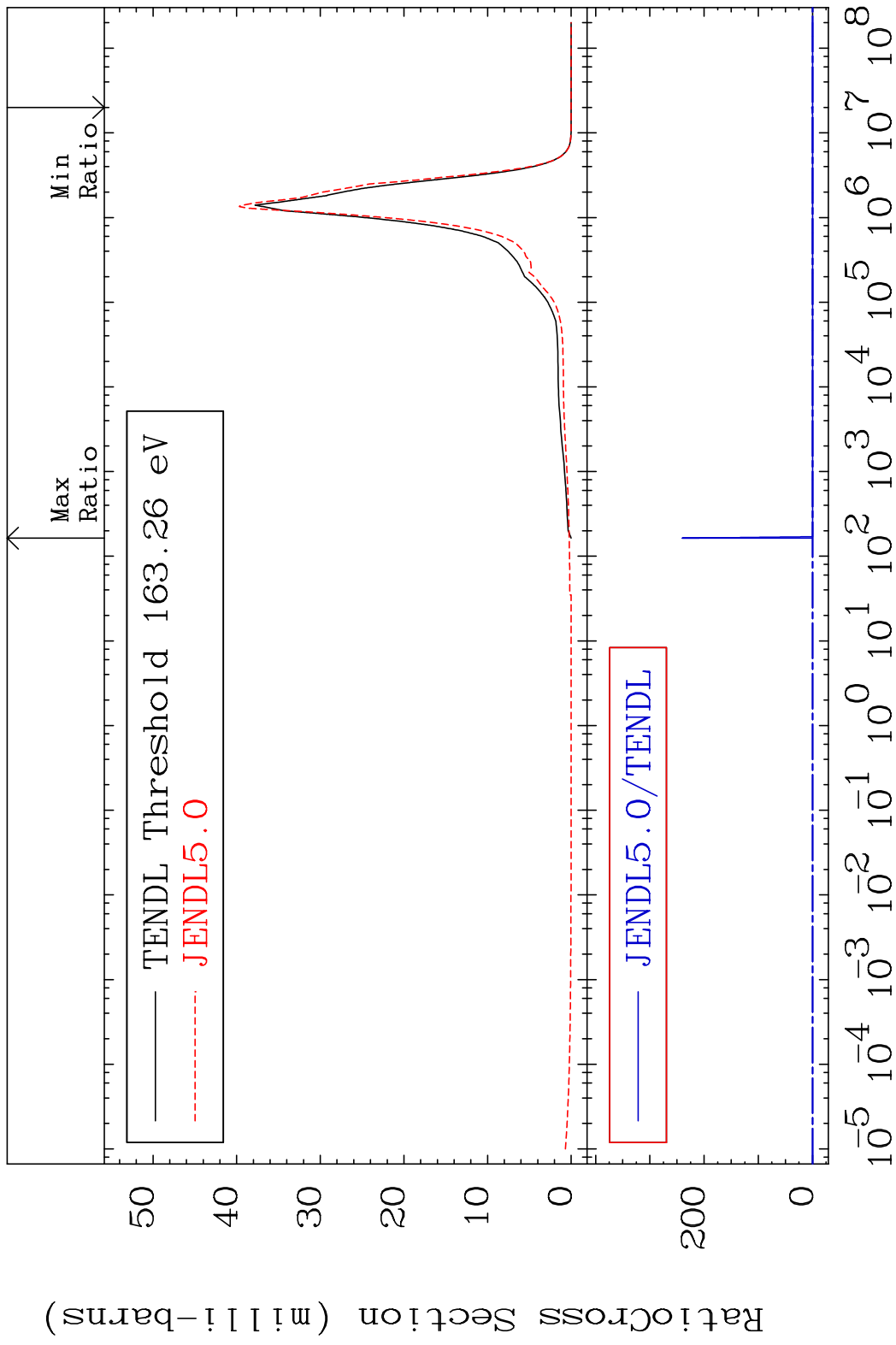
(n,2n) p

41-Nb-92m

Cross Section -100.0 To 8.186 %



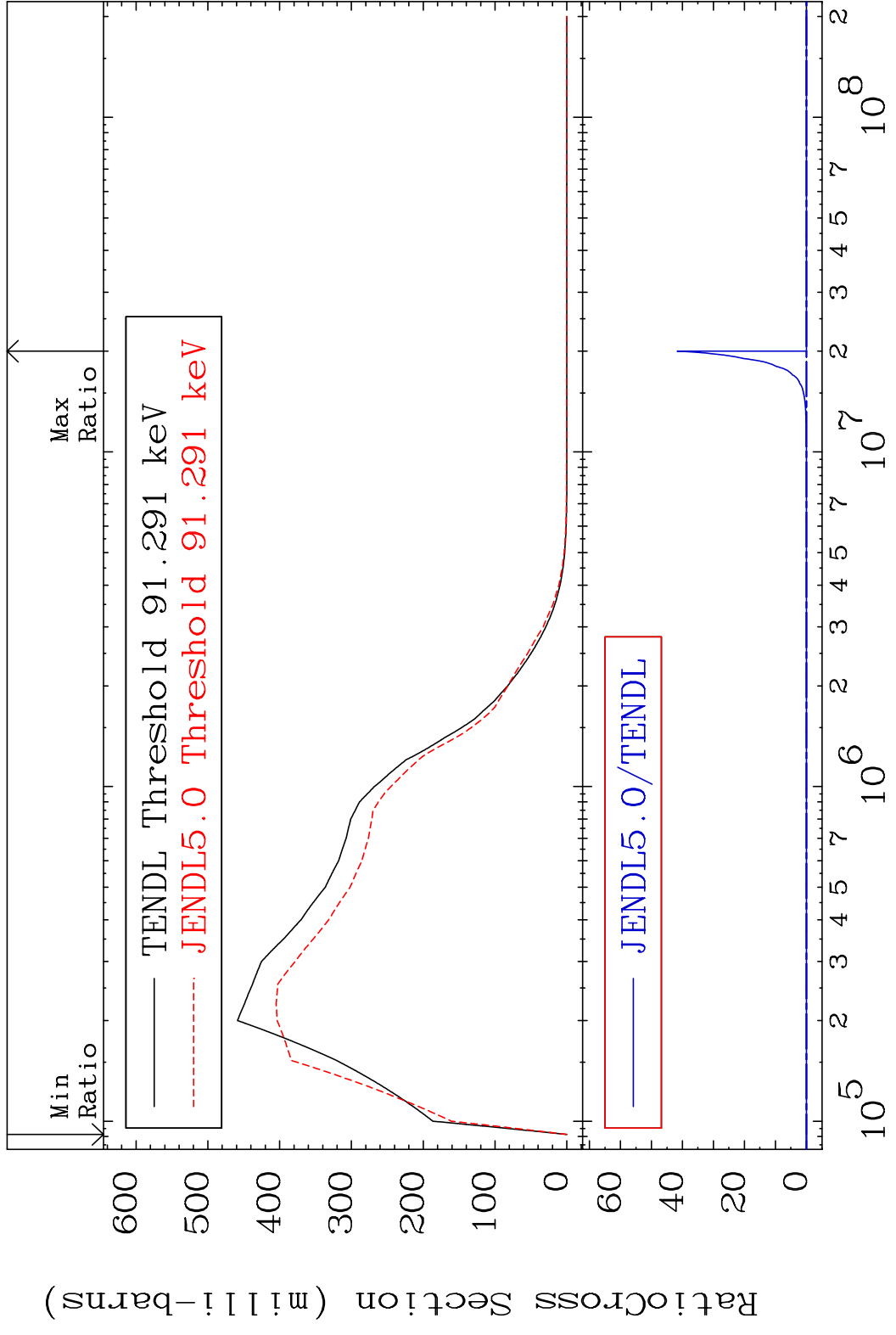
MAT 4123 MT= 51 (n,n') Level 41-Nb-92m  
Cross Section -100.0 To 9999. %



10 100 1000 10000 100000 1000000 10000000 100000000

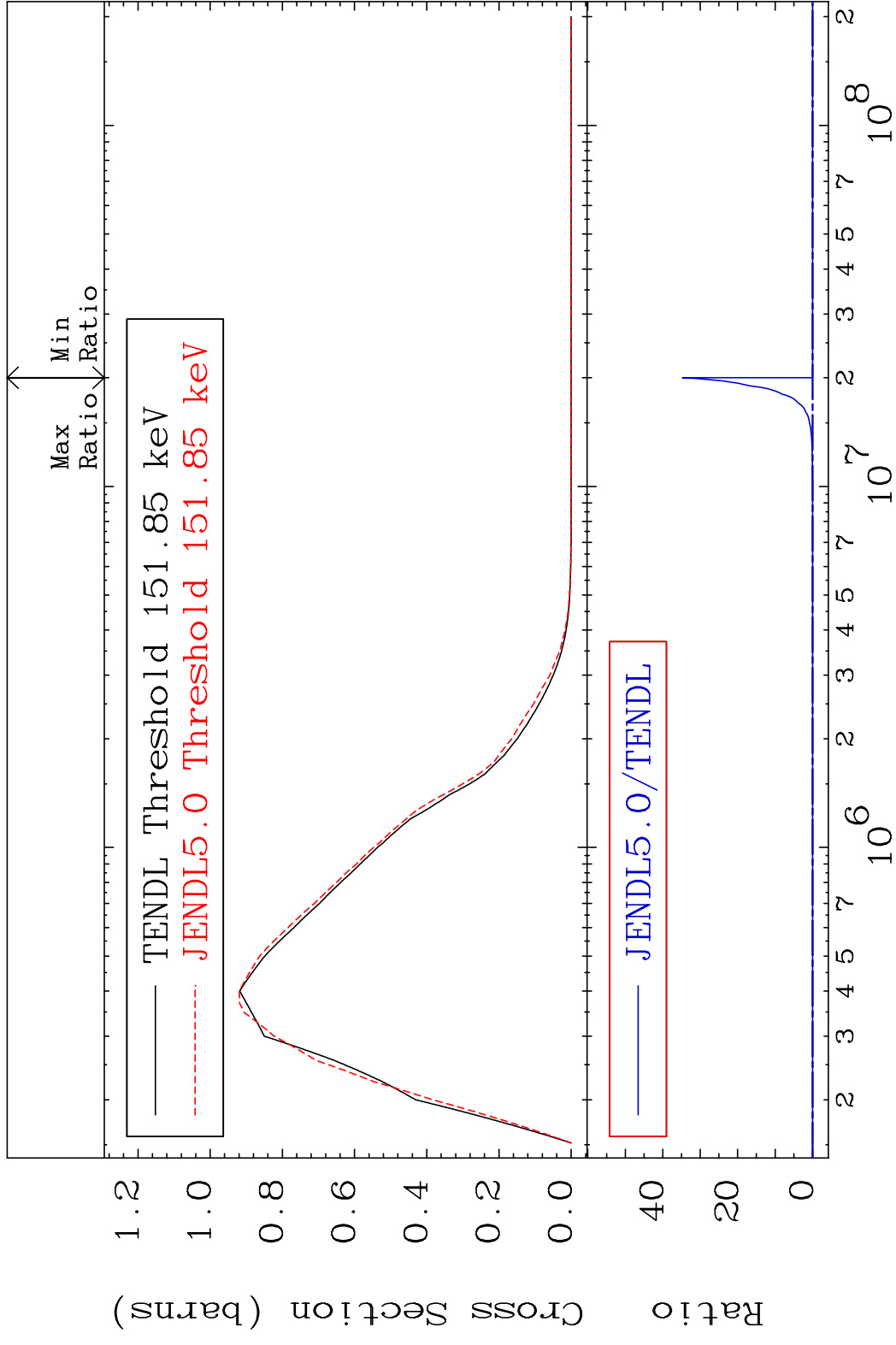
41-Nb-92m

MAT 4123 MT= 52 (n, n') Level 41-Nb-92m  
 Cross Section -100.0 To 9999. %

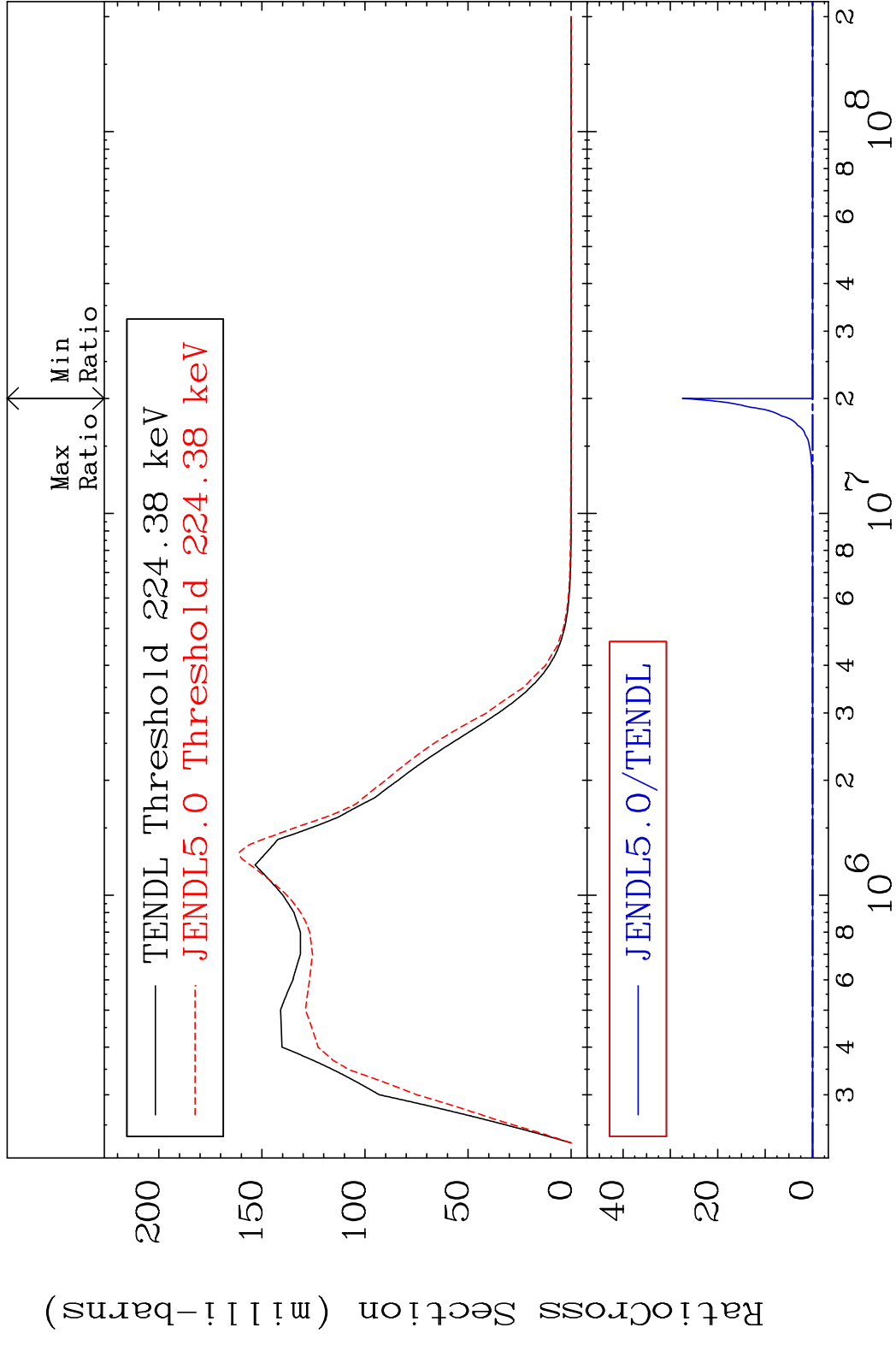


11 Incident Energy (eV) 41-Nb-92m

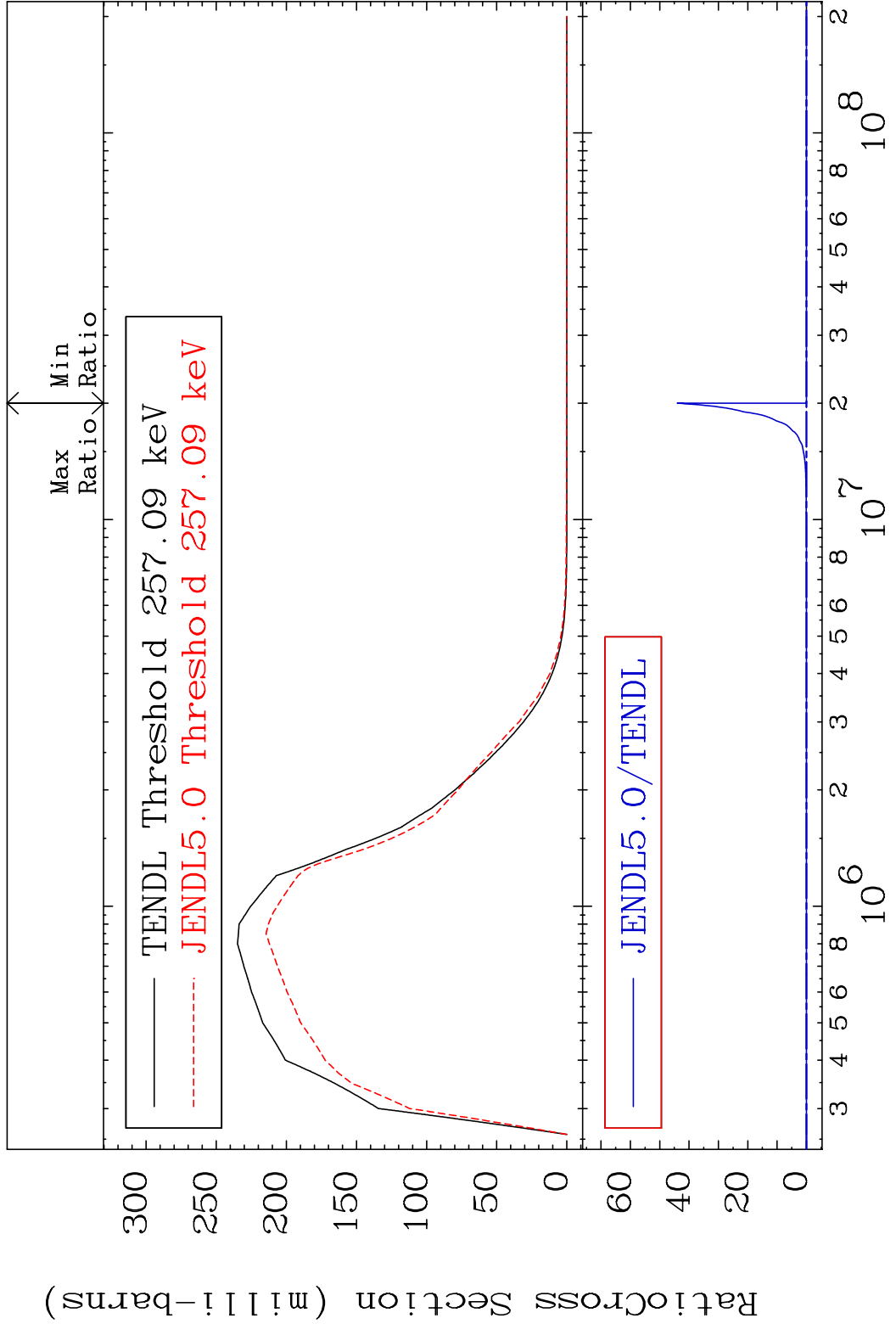
MAT 4123 MT= 53 (n,n') Level 41-Nb-92m  
 Cross Section -100.0 To 9999. %



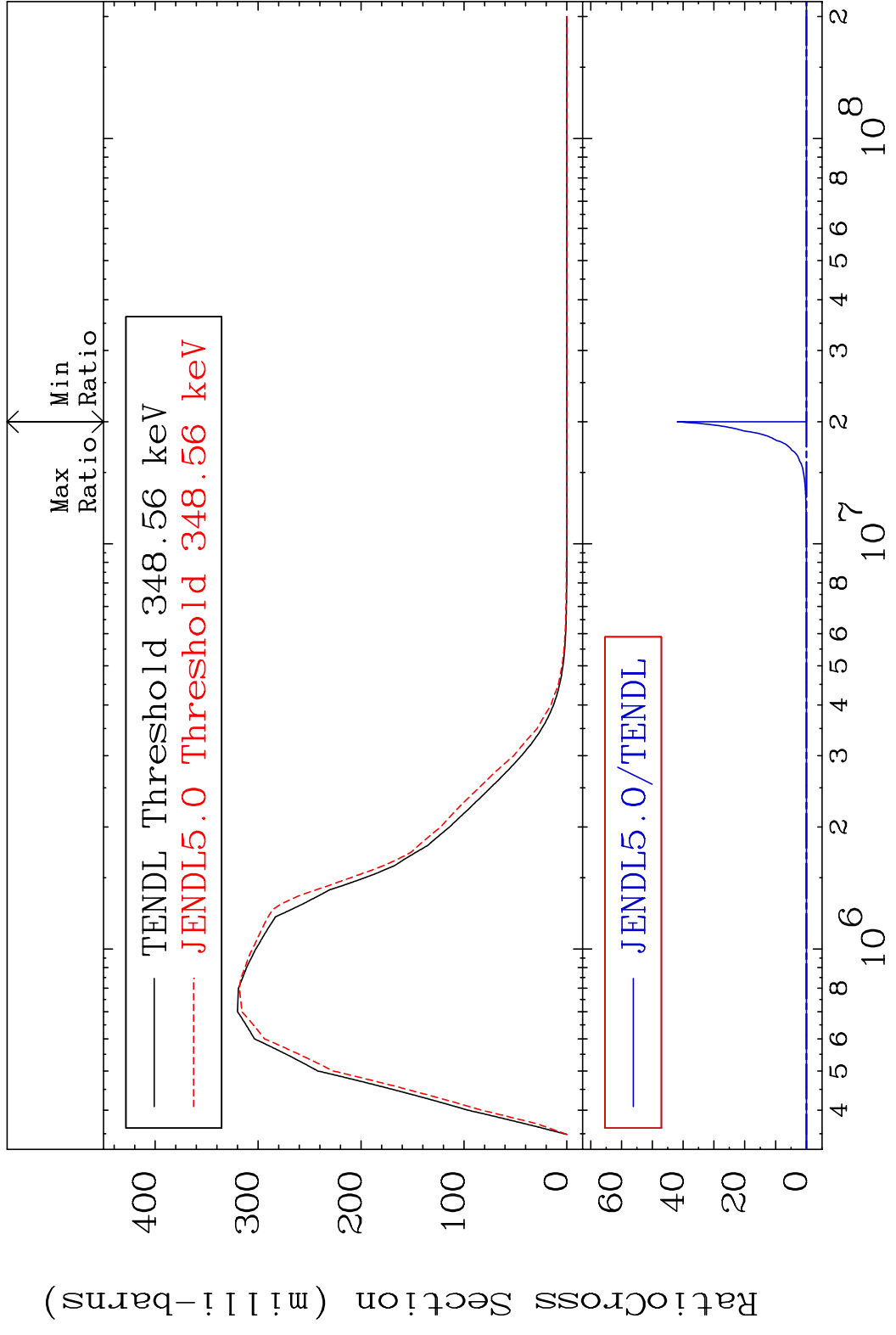
MAT 4123 MT= 54 (n,n') Level 41-Nb-92m  
 Cross Section -100.0 To 9999. %



MAT 4123 MT= 55 (n,n') Level 41-Nb-92m  
 Cross Section -100.0 To 9999. %



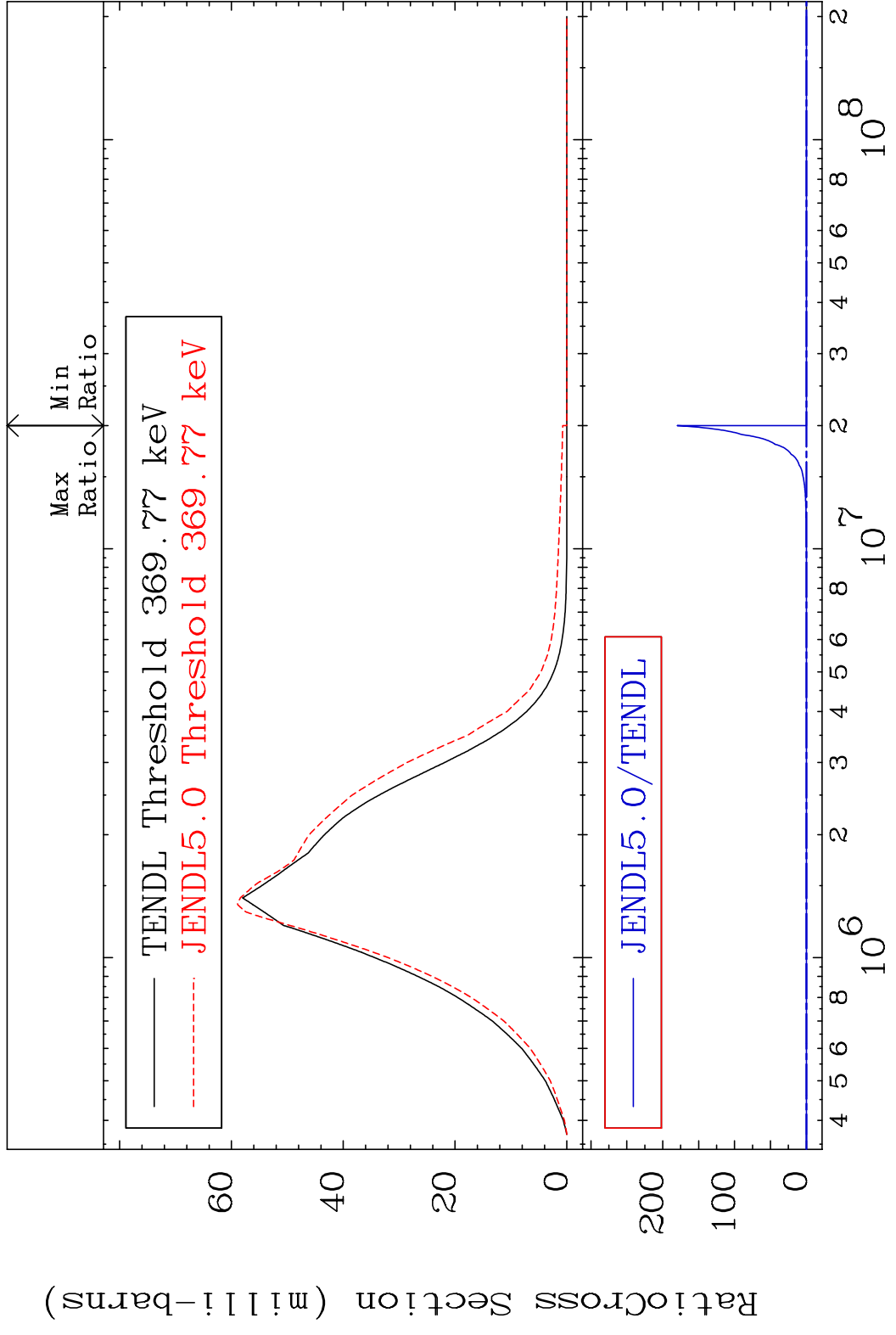
MAT 4123 MT= 56 (n, n') Level 41-Nb-92m  
 Cross Section -100.0 To 9999. %



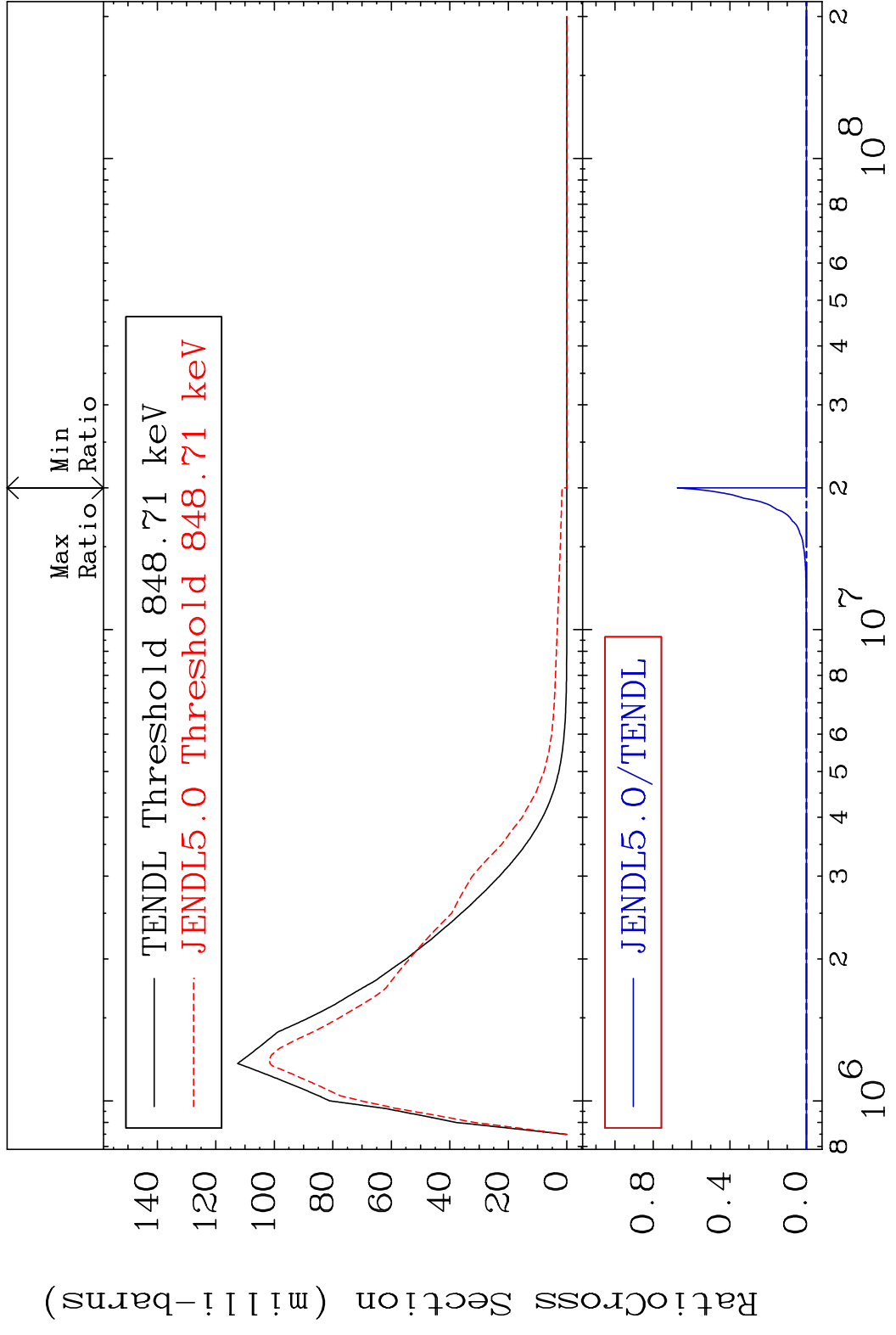
15 Incident Energy (eV) 41-Nb-92m



MAT 4123 MT= 57 (n, n') Level 41-Nb-92m  
 Cross Section -100.0 To 9999. %

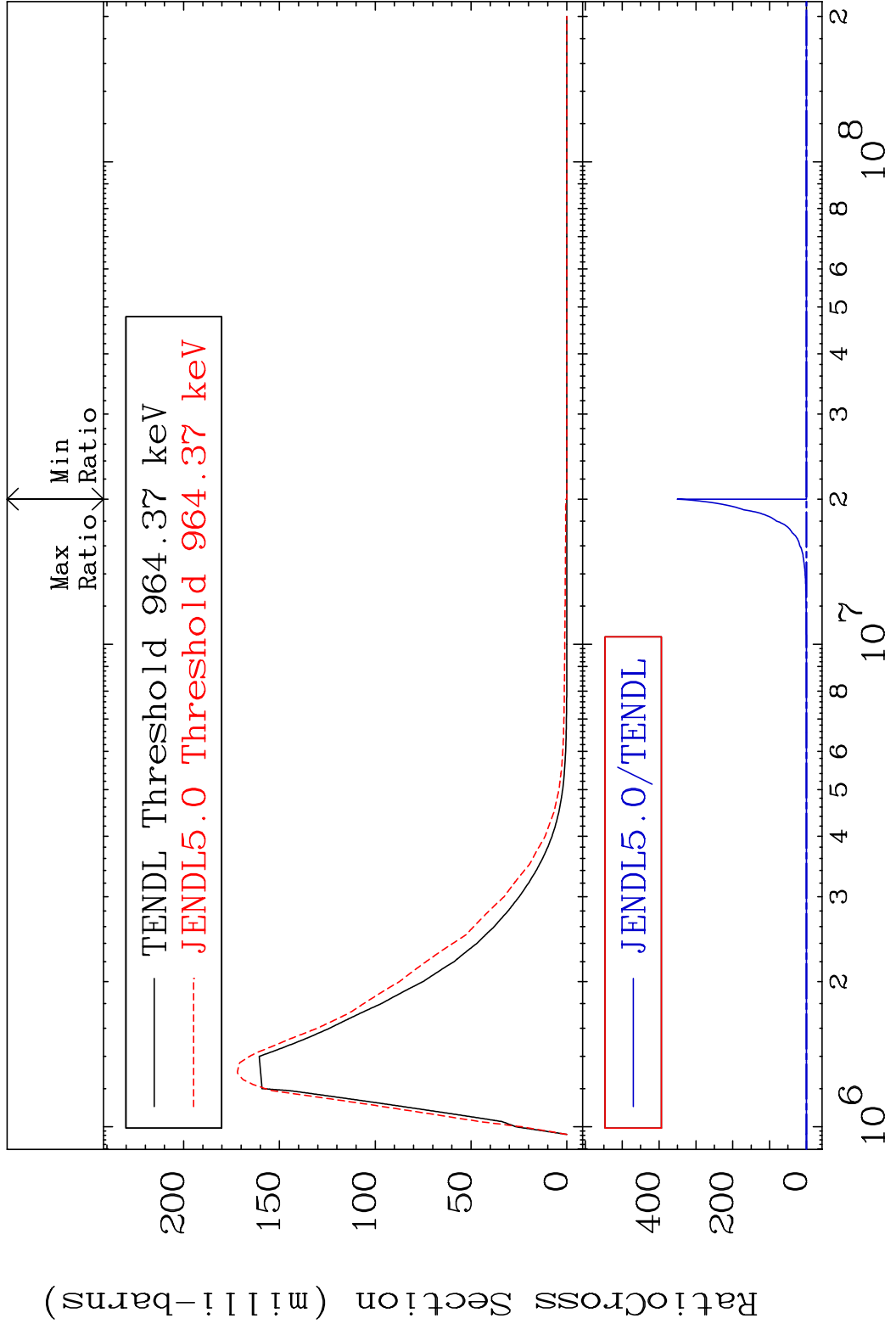


MAT 4123 MT= 58 (n, n') Level 41-Nb-92m  
 Cross Section -100.0 To 9999. %



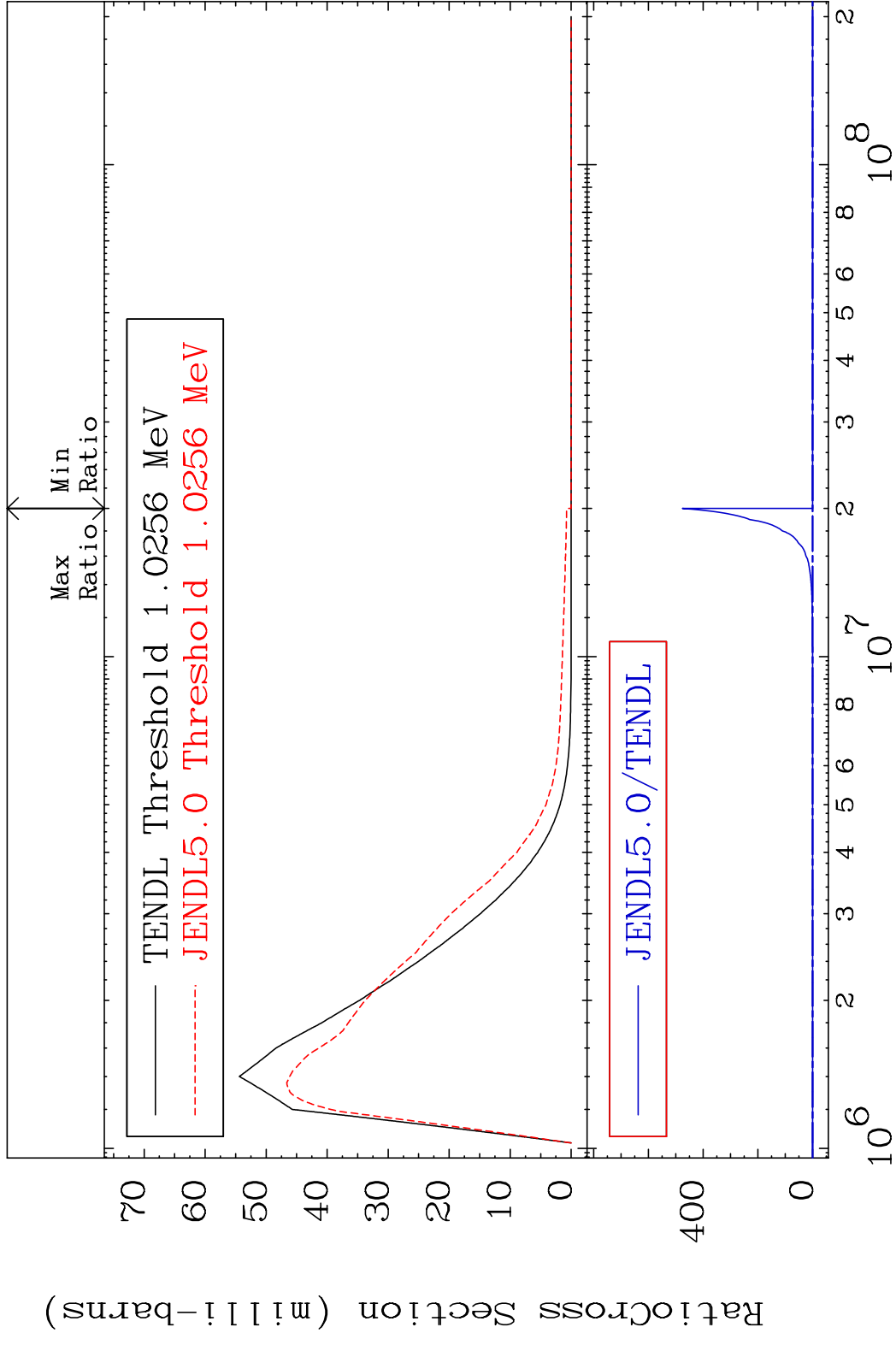
17 Incident Energy (eV) 41-Nb-92m

MAT 4123 MT= 59 (n, n') Level 41-Nb-92m  
 Cross Section -100.0 To 9999. %



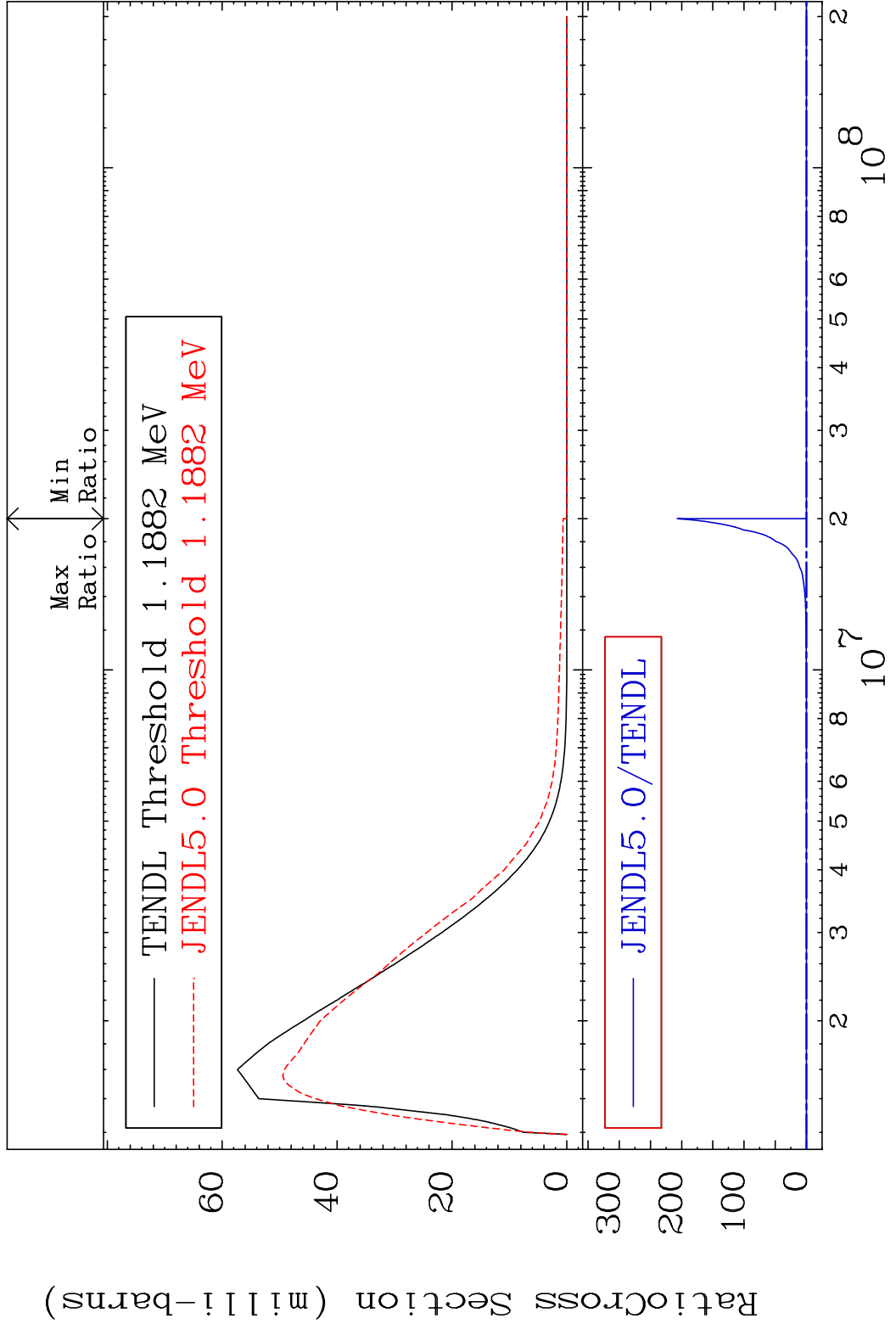
18 Incident Energy (eV) 41-Nb-92m

MAT 4123 MT= 60 (n, n') Level 41-Nb-92m  
 Cross Section -100.0 To 9999. %



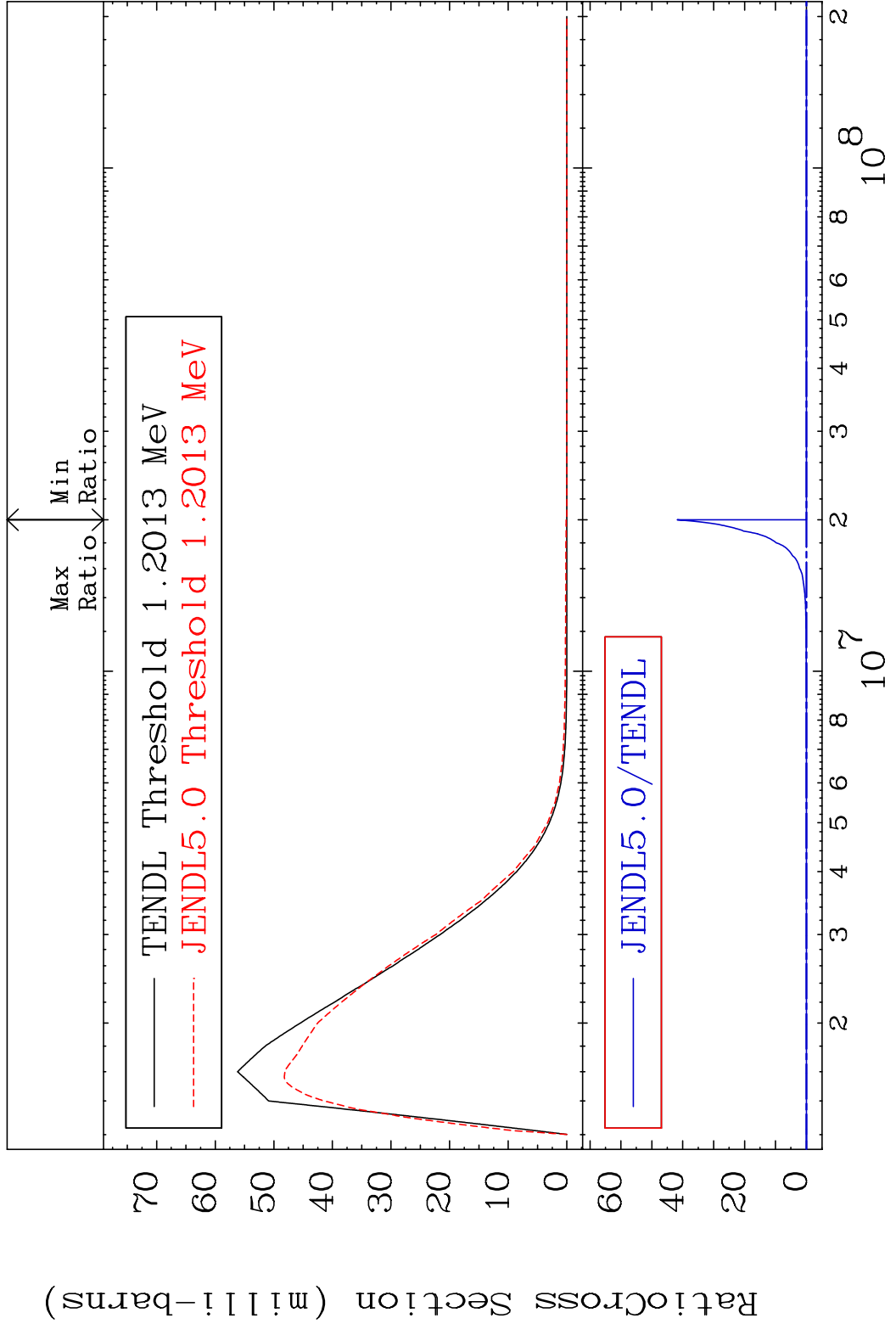
19 Incident Energy (eV) 41-Nb-92m

MAT 4123 MT= 61 (n, n') Level 41-Nb-92m  
 Cross Section -100.0 To 9999. %

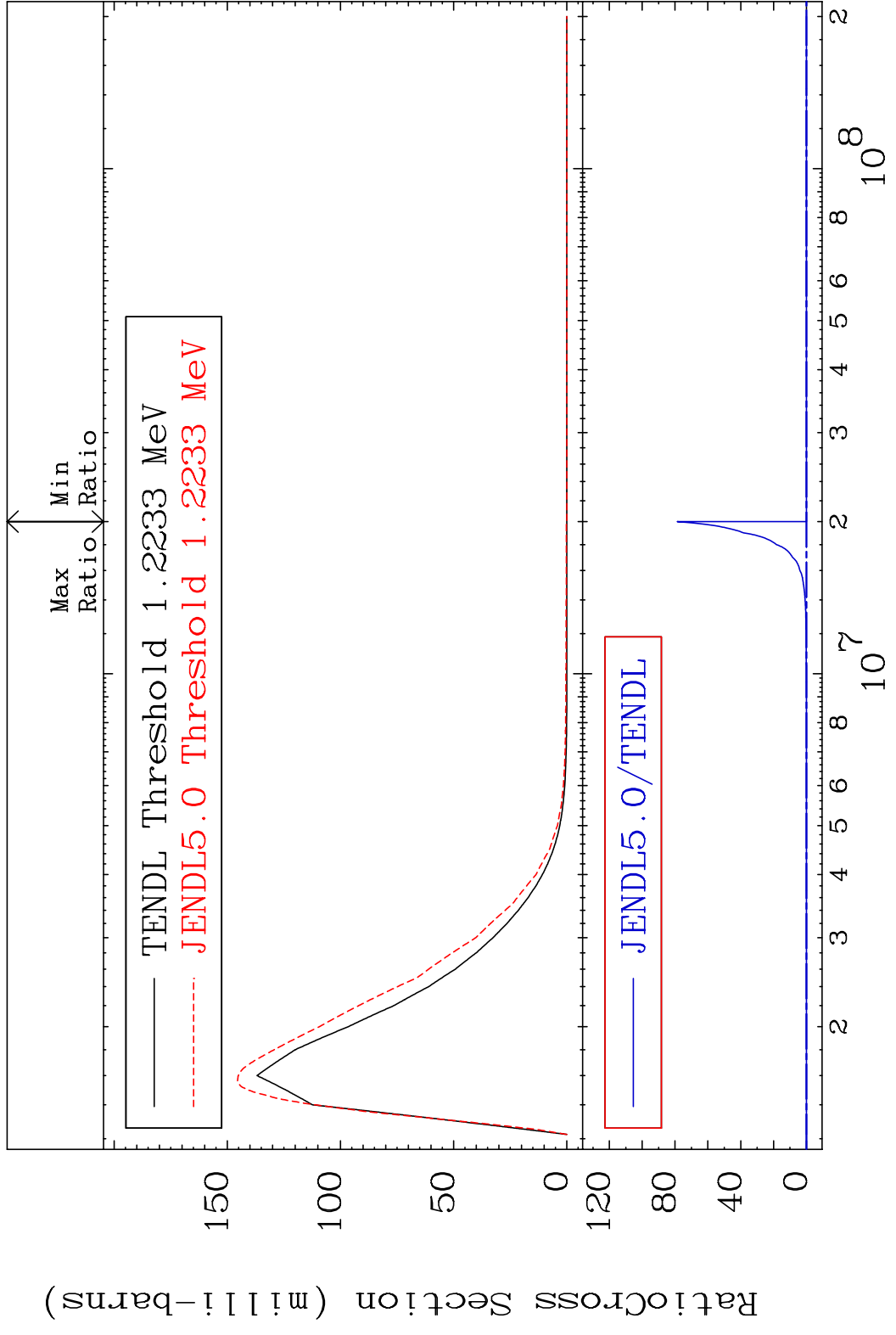


20 41-Nb-92m

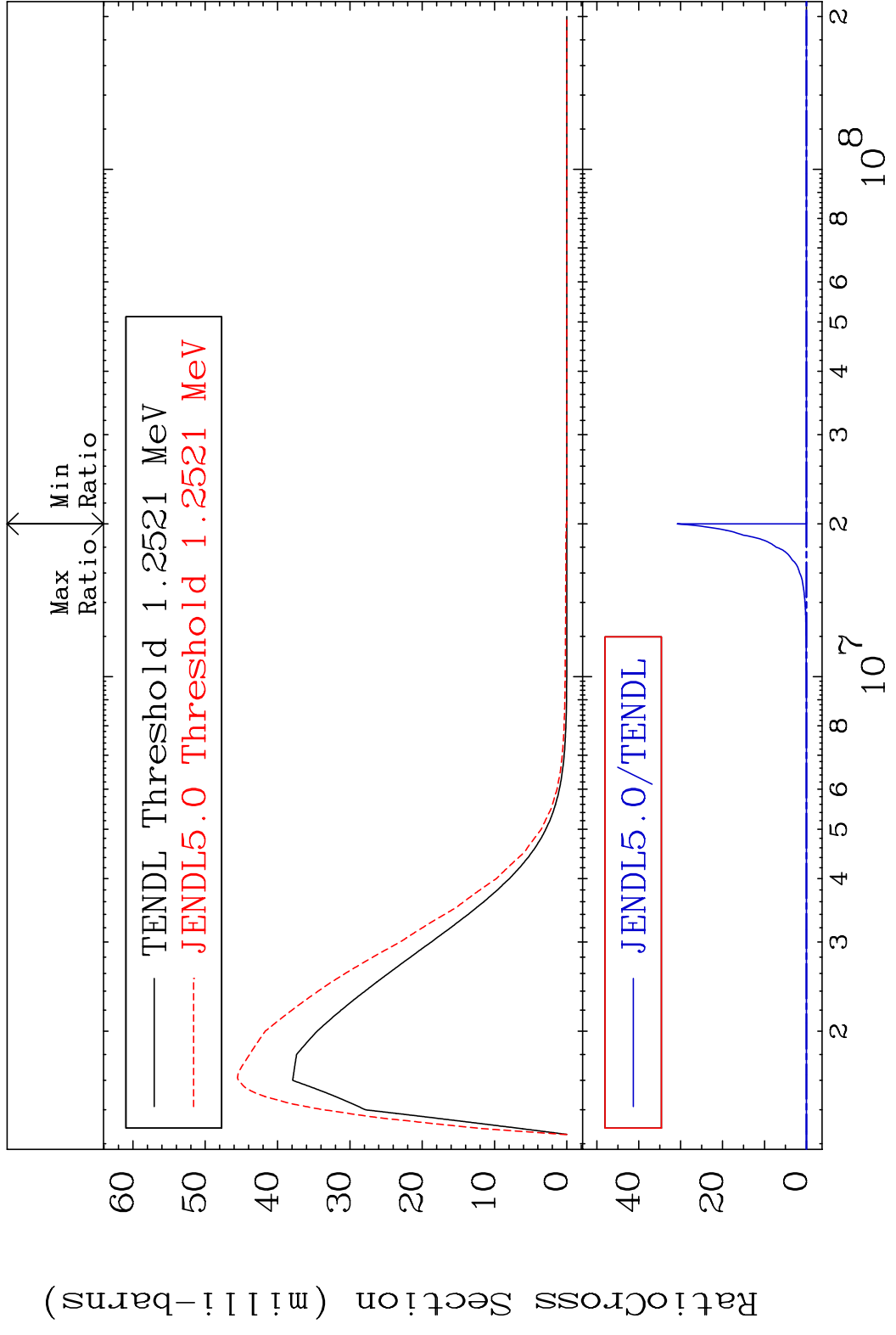
MAT 4123 MT= 62 (n, n') Level 41-Nb-92m  
 Cross Section -100.0 To 9999. %



MAT 4123 MT= 63 (n, n') Level 41-Nb-92m  
 Cross Section -100.0 To 9999. %

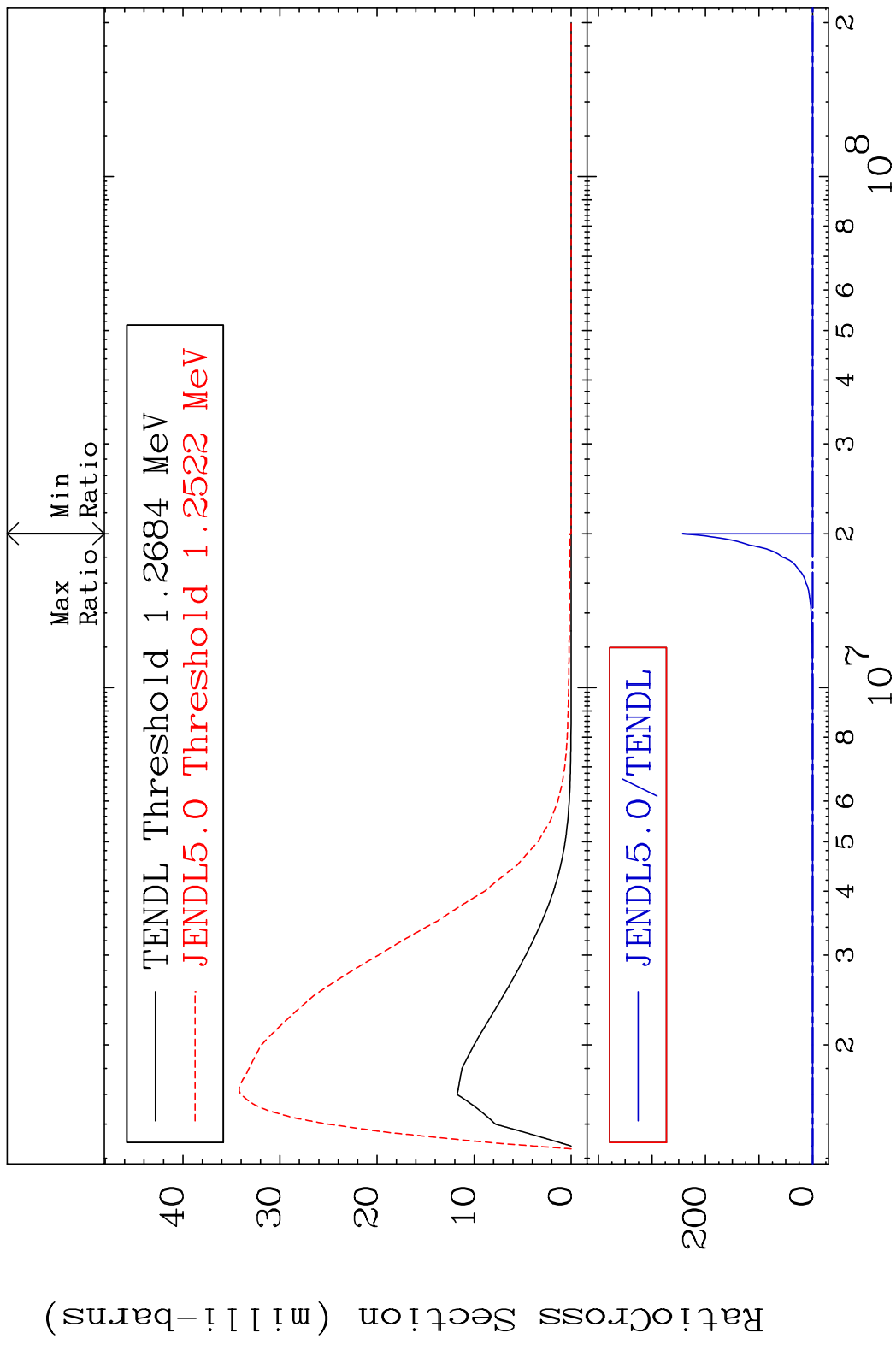


MAT 4123 MT= 64 (n, n') Level 41-Nb-92m  
 Cross Section -100.0 To 9999. %

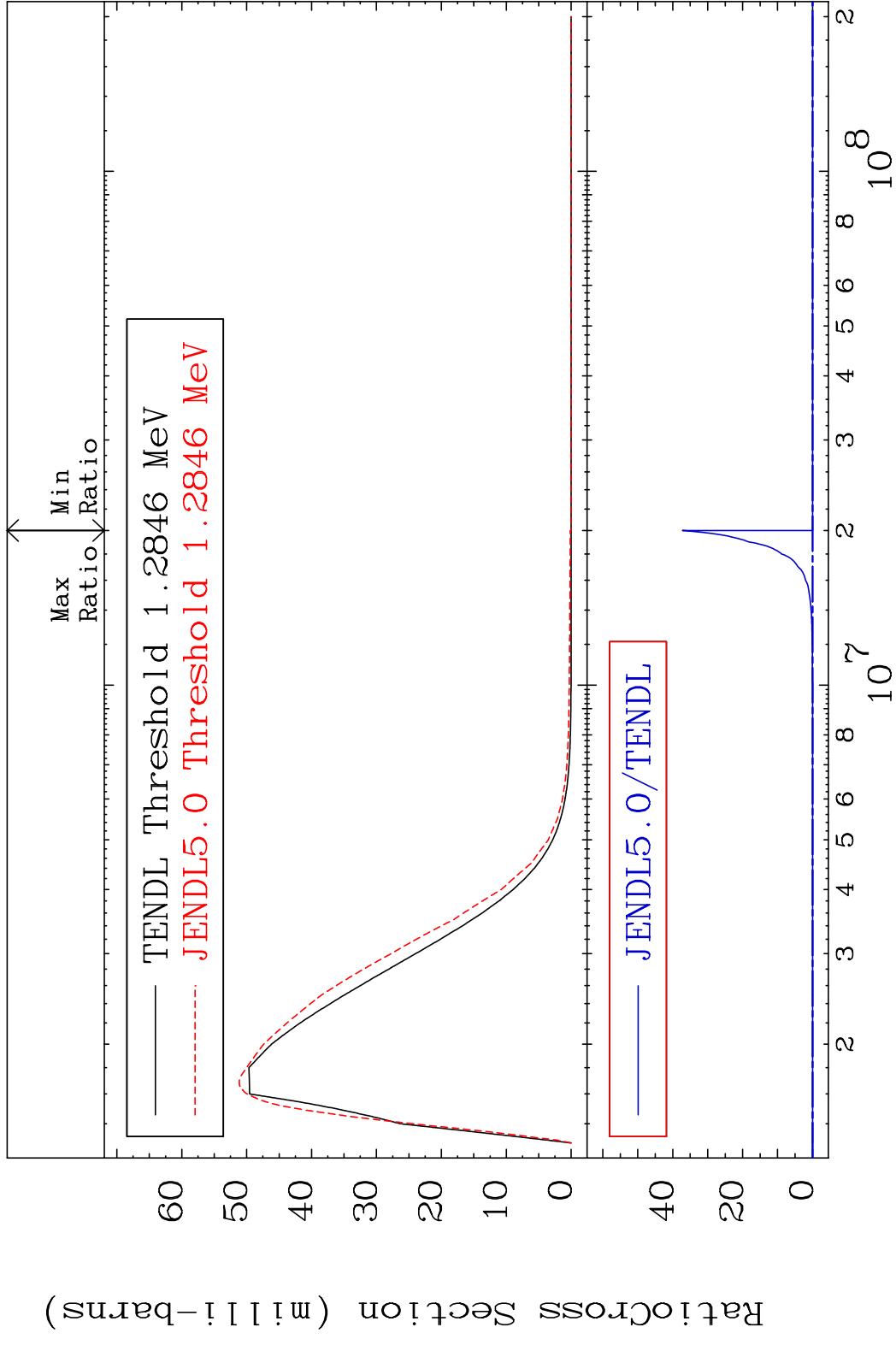




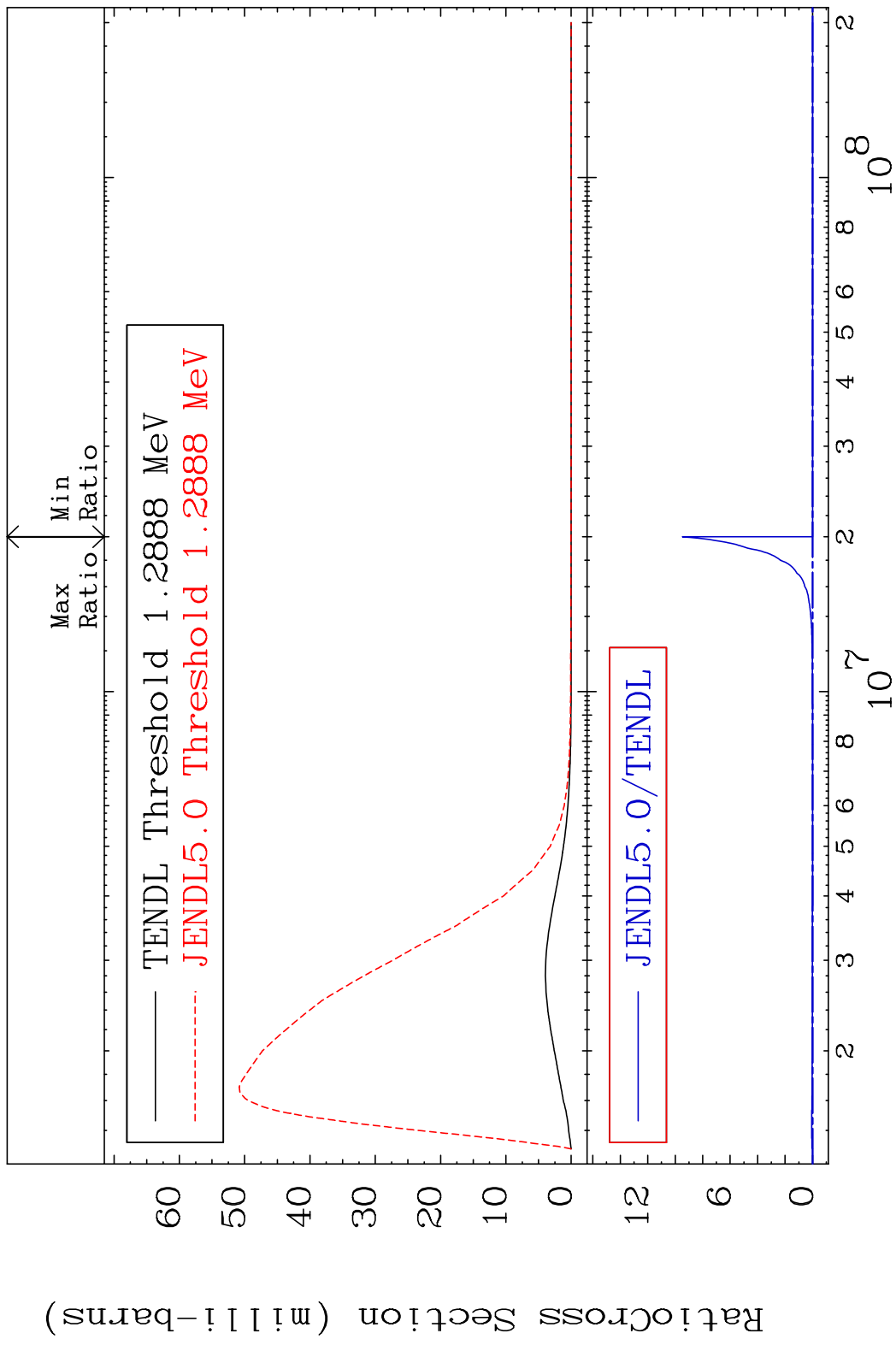
MAT 4123 MT= 65 (n, n') Level 41-Nb-92m  
 Cross Section -100.0 To 9999. %



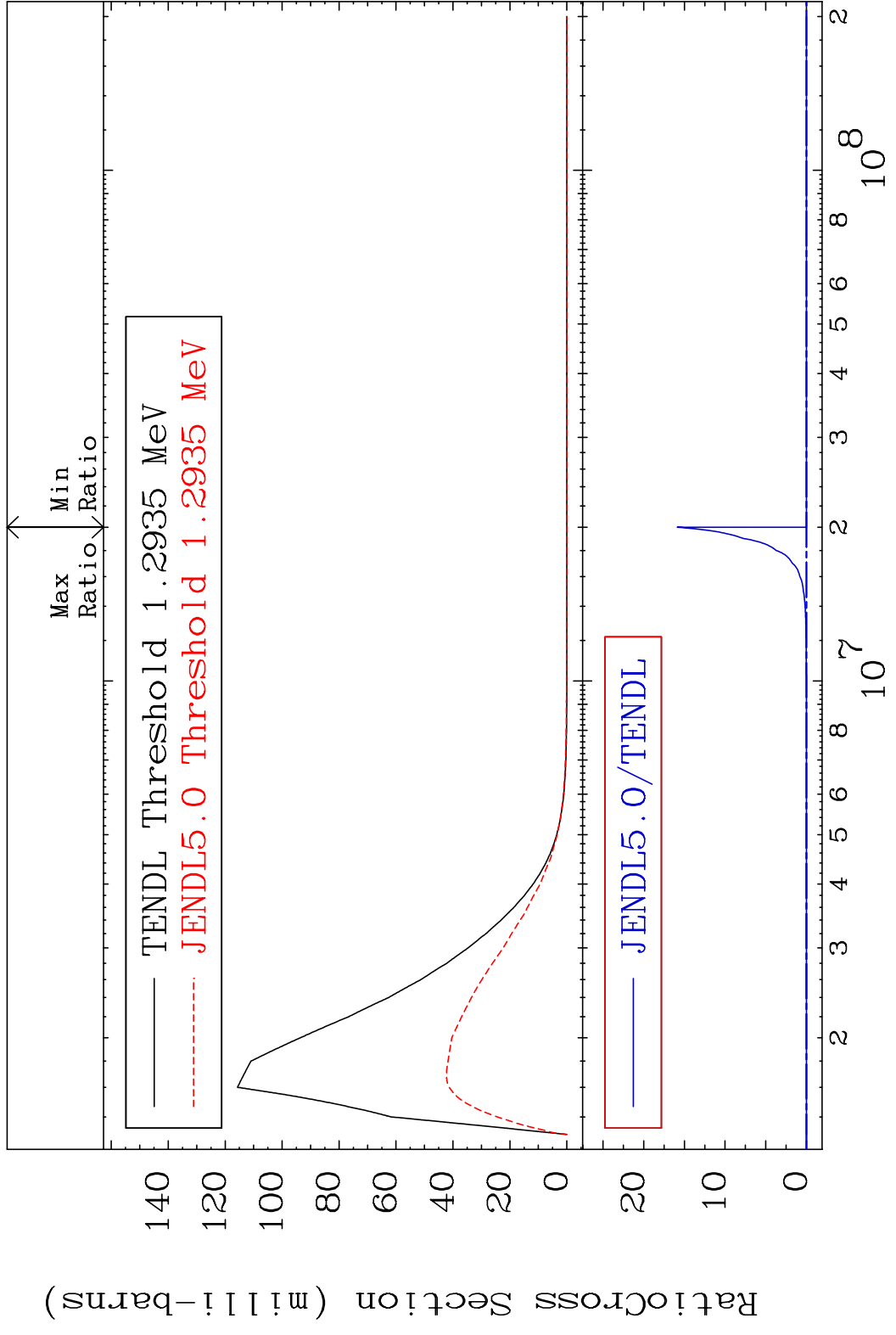
MAT 4123 MT= 66 (n, n') Level 41-Nb-92m  
 Cross Section -100.0 To 9999. %



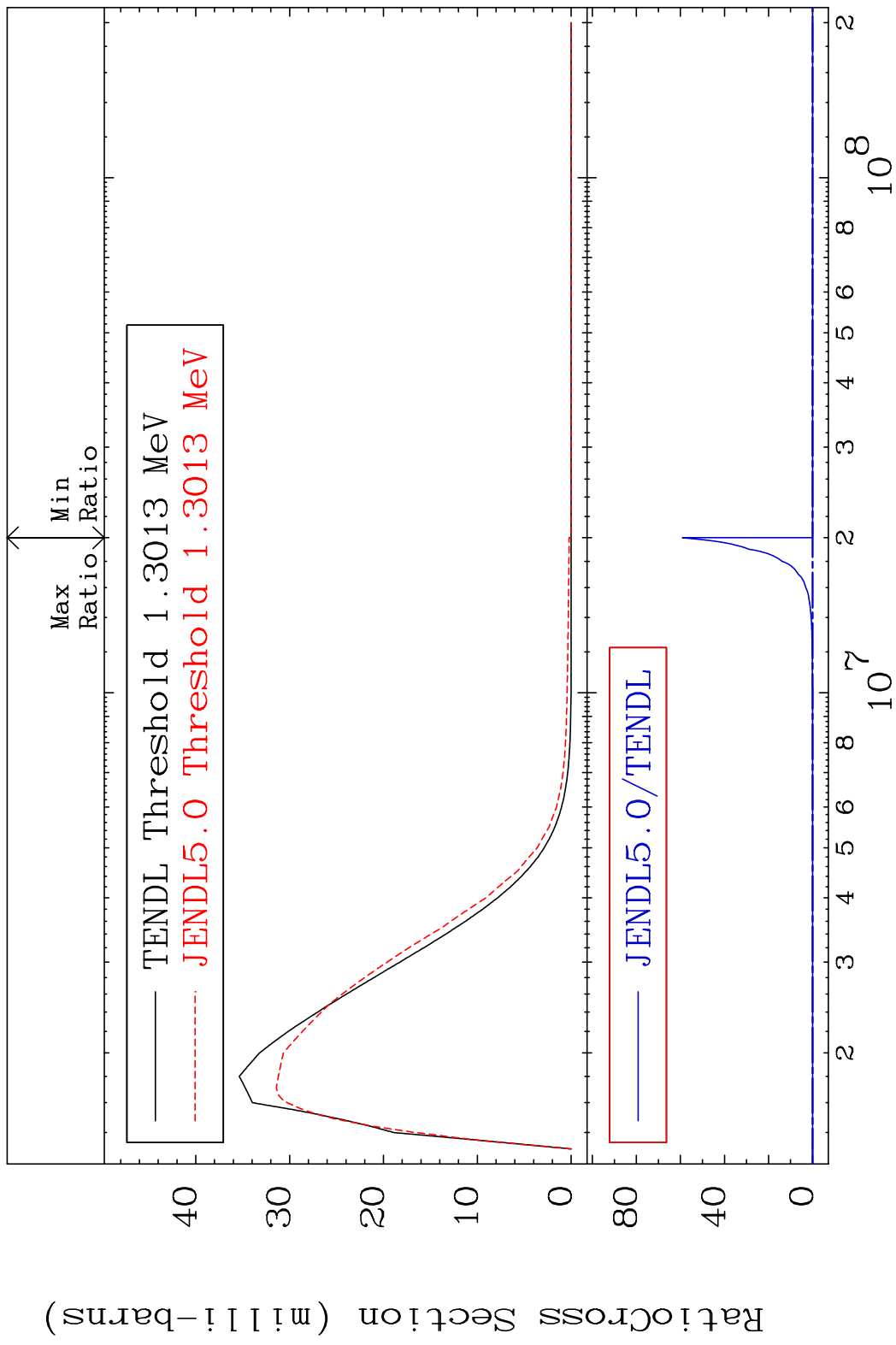
MAT 4123 MT= 67 (n, n') Level 41-Nb-92m  
 Cross Section -100.0 To 9999. %



MAT 4123 MT= 68 (n, n') Level 41-Nb-92m  
 Cross Section -100.0 To 9999. %

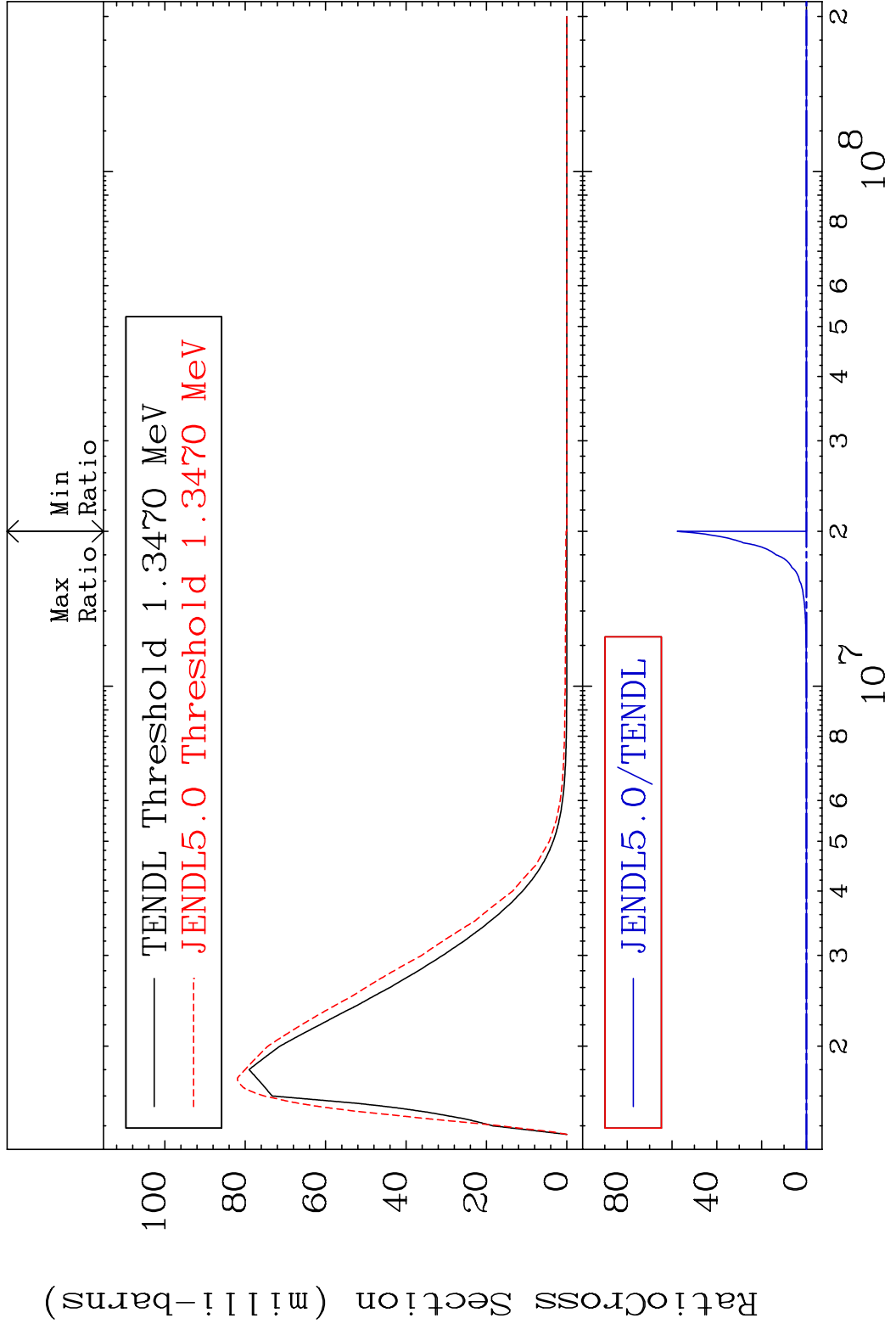


MAT 4123 MT= 69 (n, n') Level 41-Nb-92m  
 Cross Section -100.0 To 9999. %

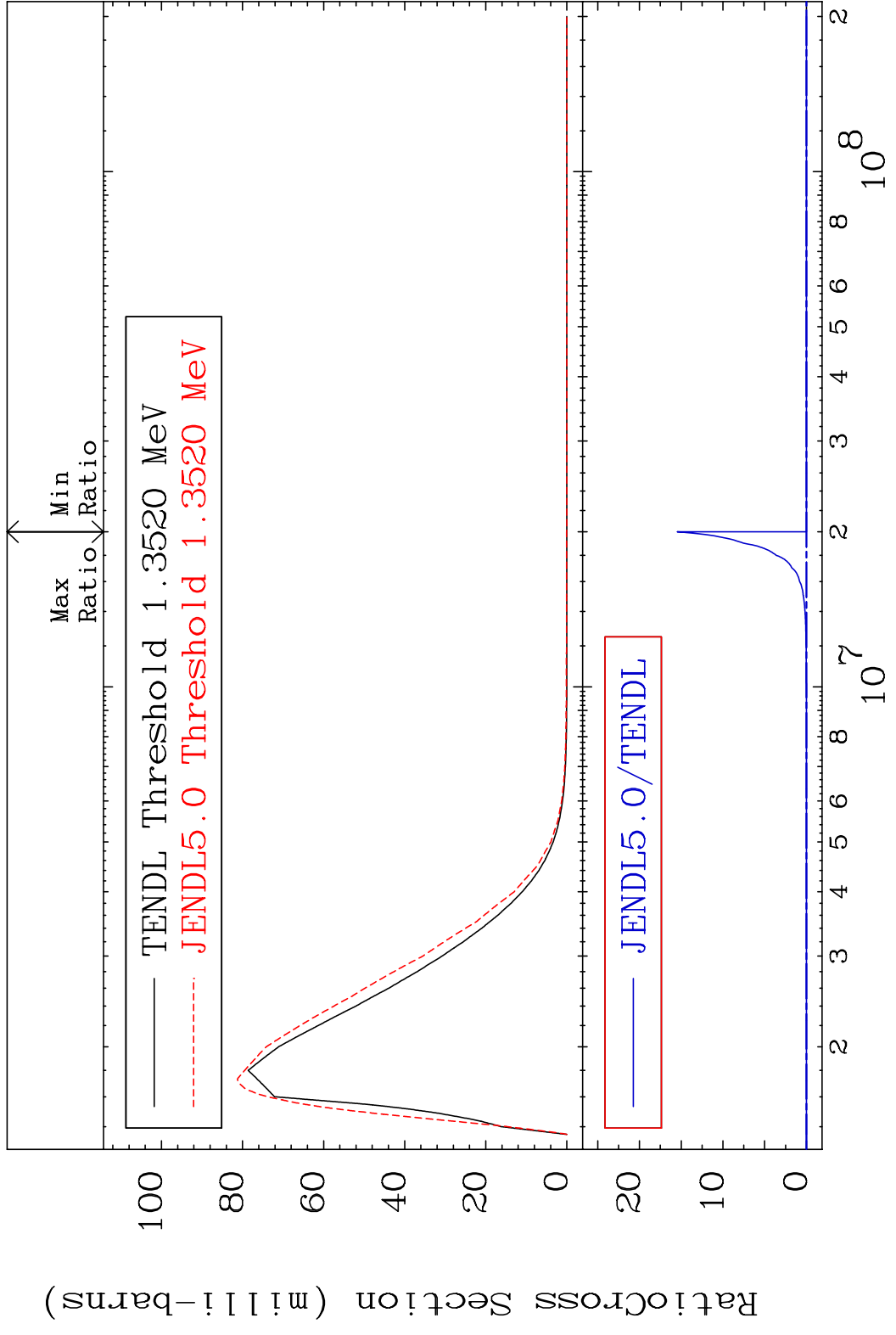


28 Incident Energy (eV) 41-Nb-92m

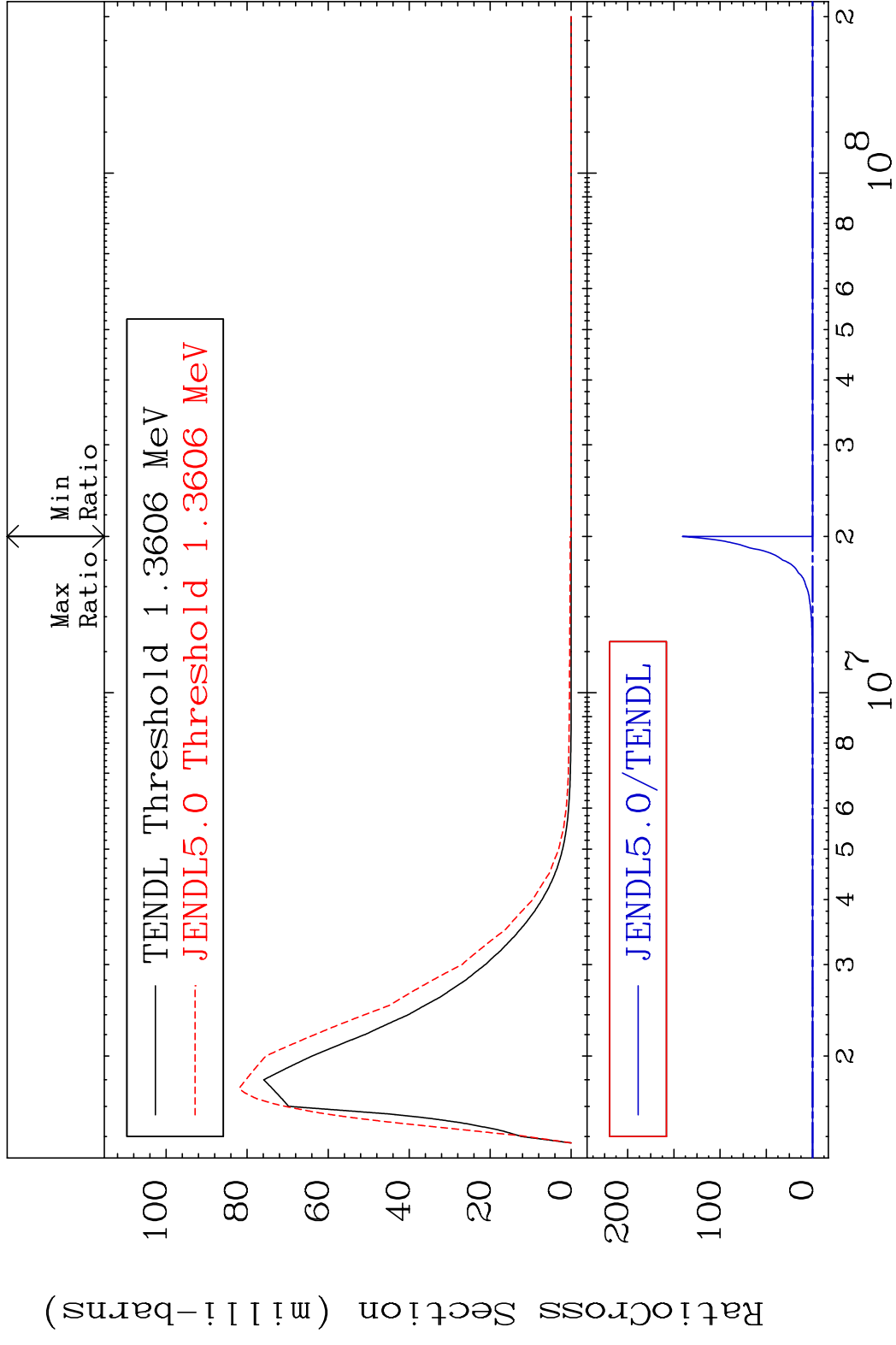
MAT 4123 MT= 70 (n, n') Level 41-Nb-92m  
 Cross Section -100.0 To 9999. %



MAT 4123 MT= 71 (n, n') Level 41-Nb-92m  
 Cross Section -100.0 To 9999. %

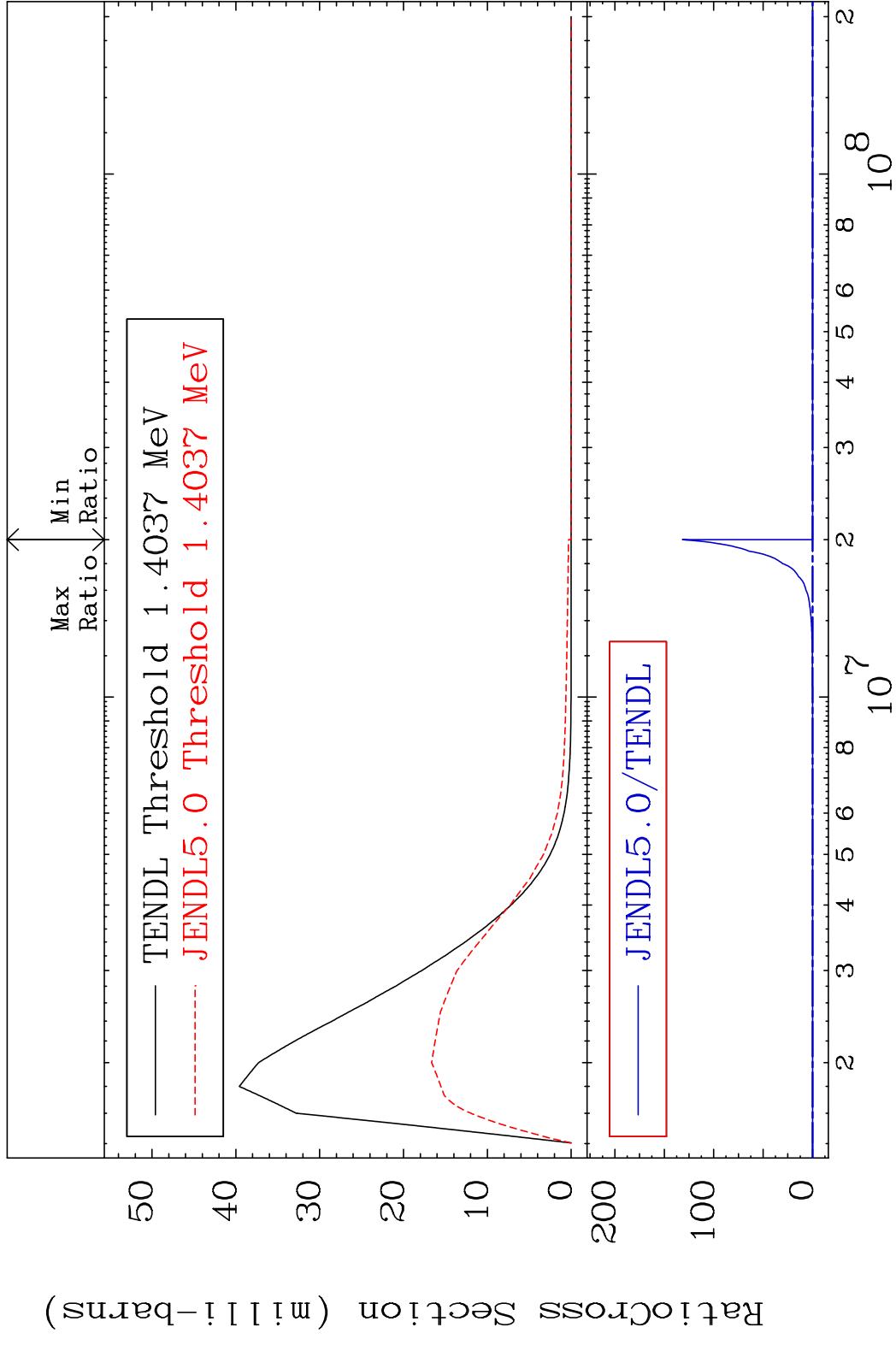


MAT 4123 MT= 72 (n, n') Level 41-Nb-92m  
 Cross Section -100.0 To 9999. %

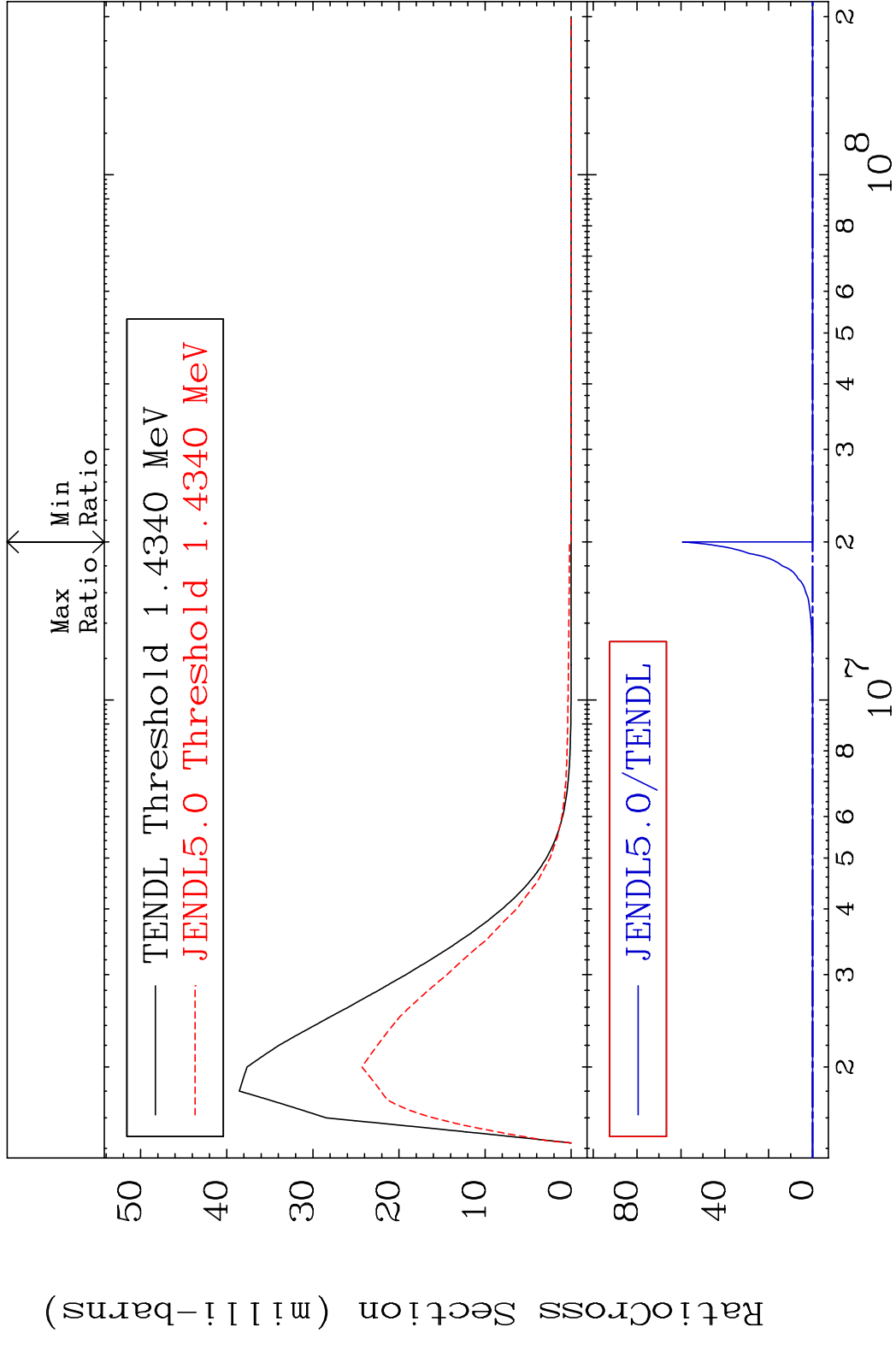




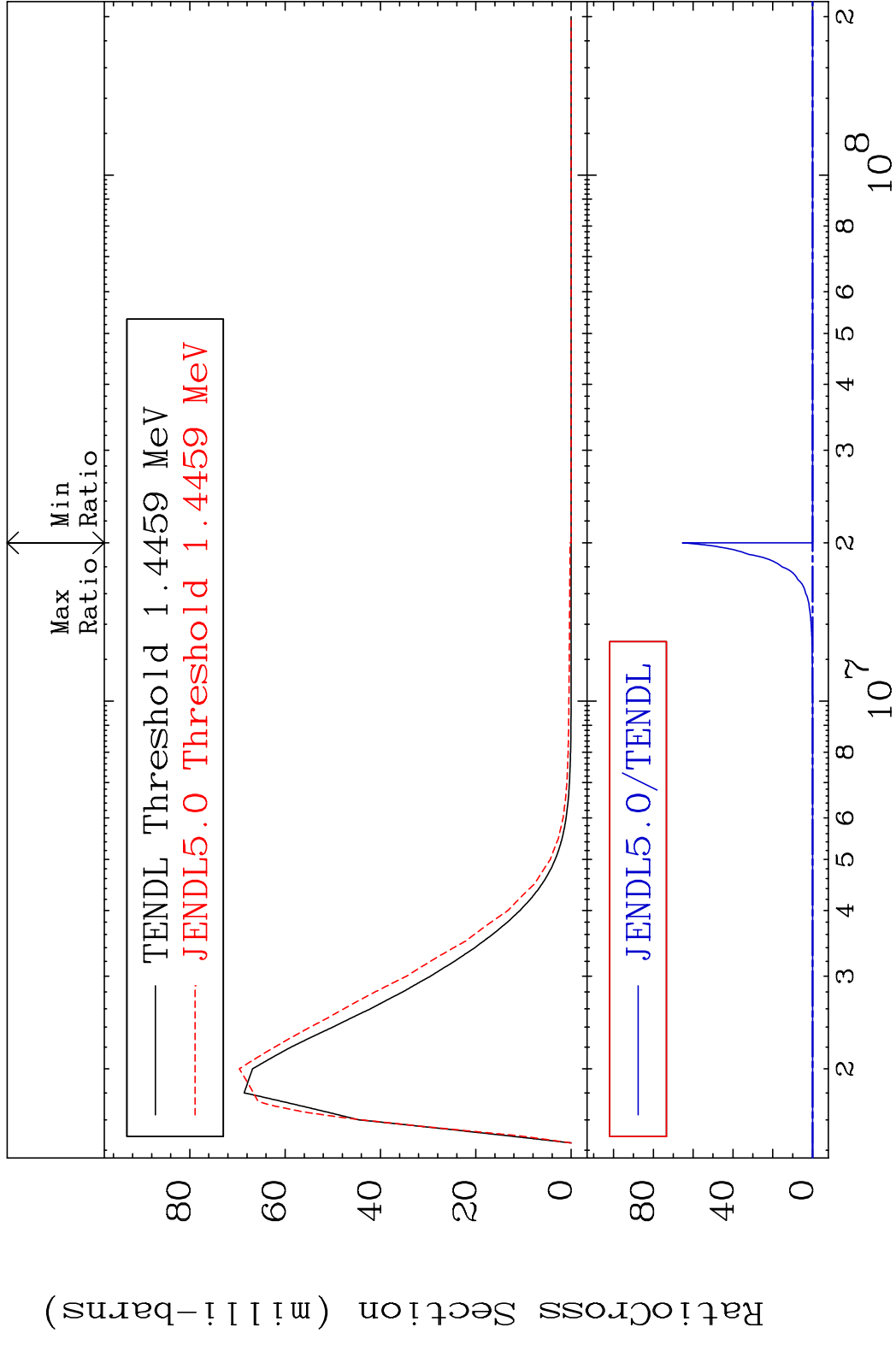
MAT 4123 MT= 73 (n, n') Level 41-Nb-92m  
 Cross Section -100.0 To 9999. %



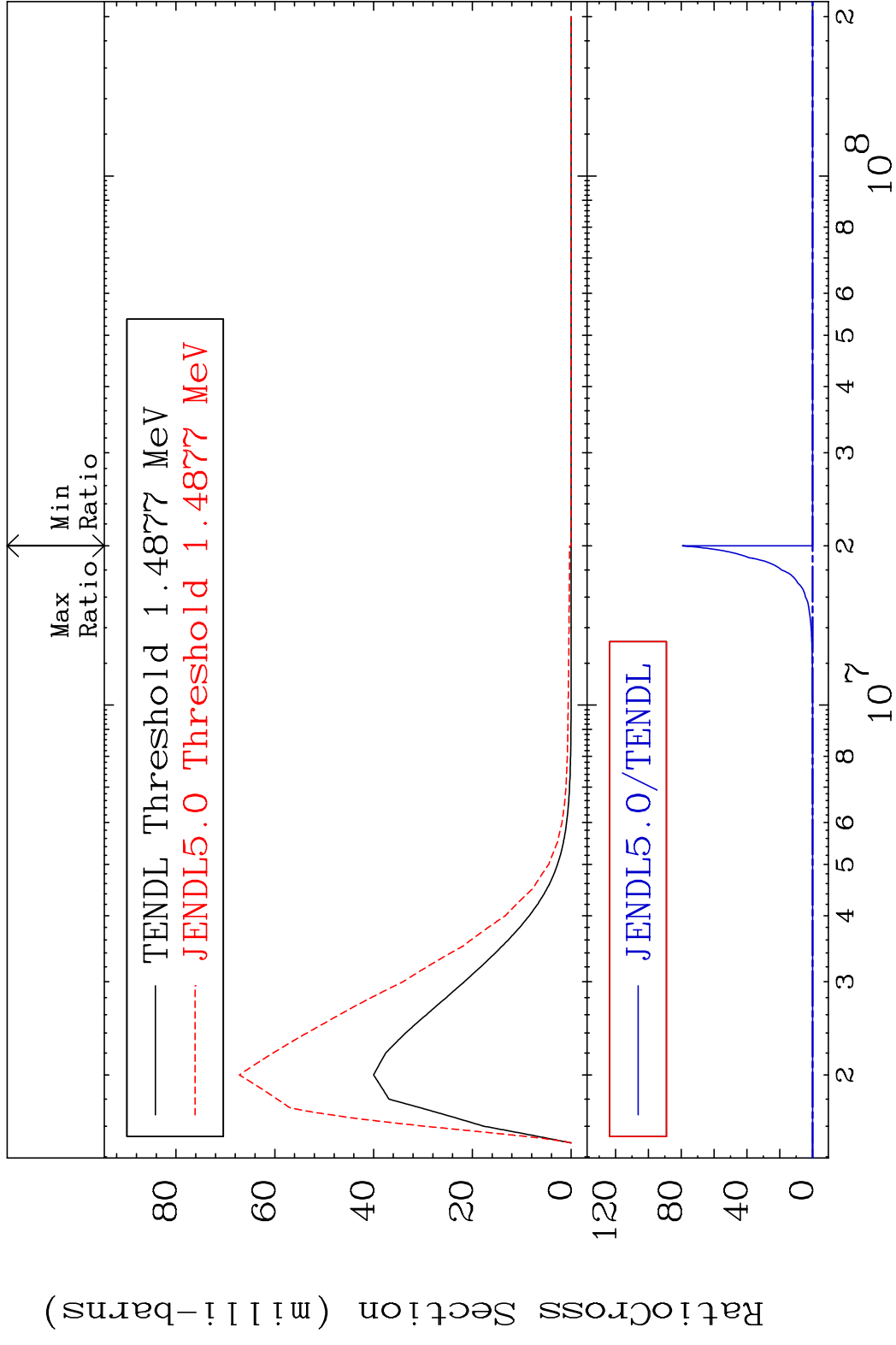
MAT 4123 MT= 74 (n, n') Level 41-Nb-92m  
 Cross Section -100.0 To 9999. %



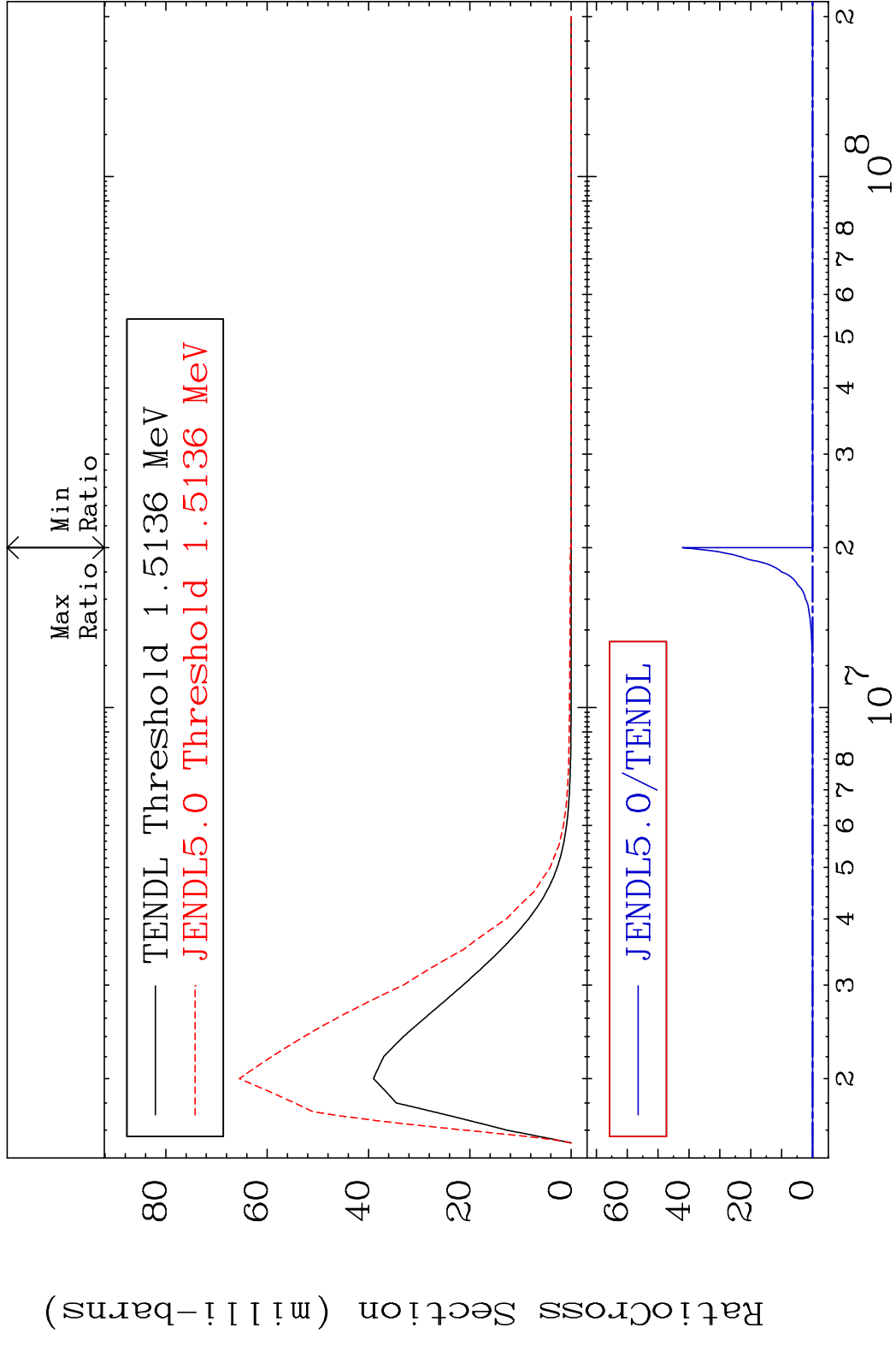
MAT 4123 MT= 75 (n, n') Level 41-Nb-92m  
 Cross Section -100.0 To 9999. %



MAT 4123 MT= 76 (n, n') Level 41-Nb-92m  
 Cross Section -100.0 To 9999. %

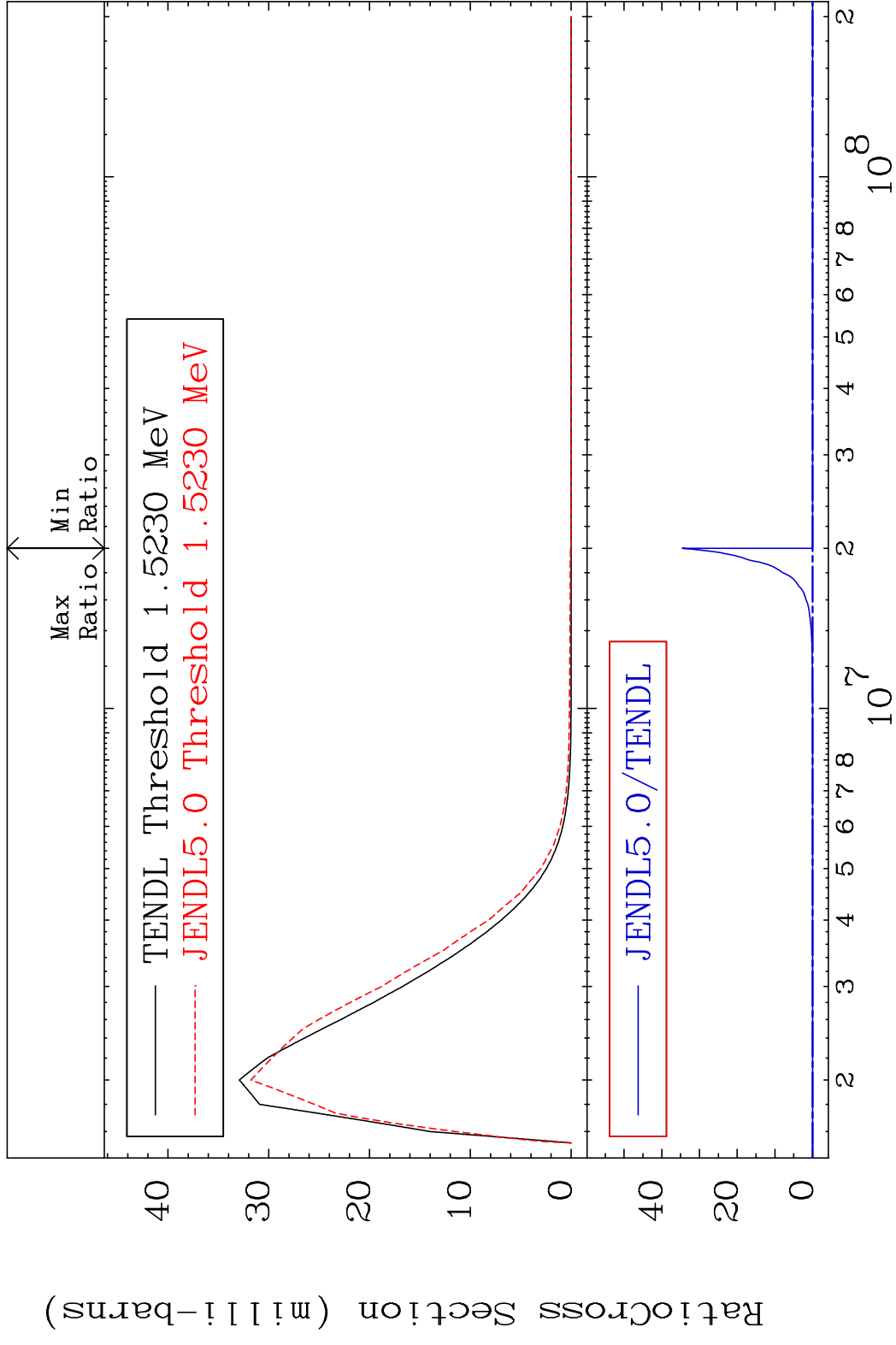


MAT 4123 MT= 77 (n, n') Level 41-Nb-92m  
 Cross Section -100.0 To 9999. %

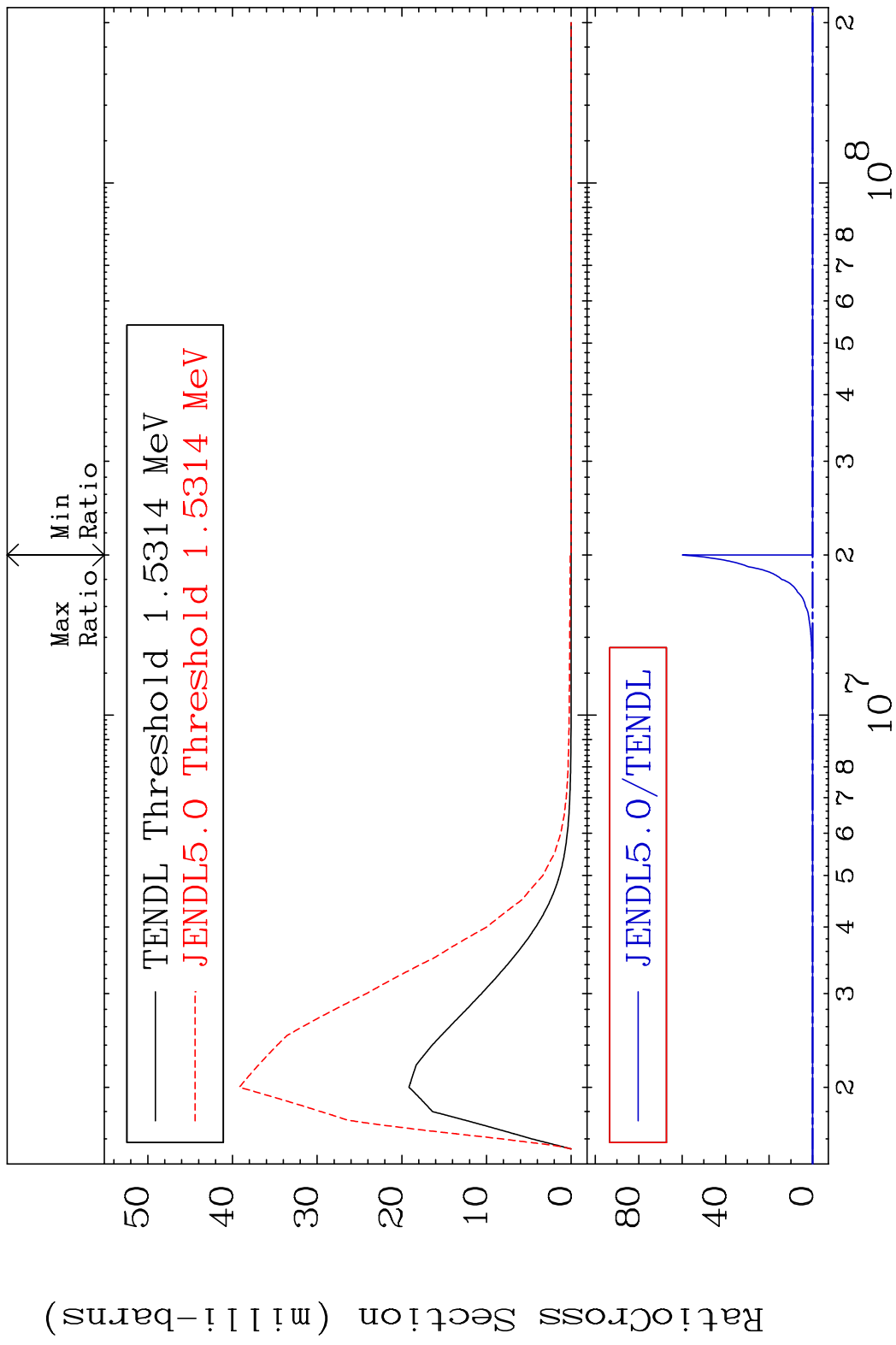


36 Incident Energy (eV) 41-Nb-92m

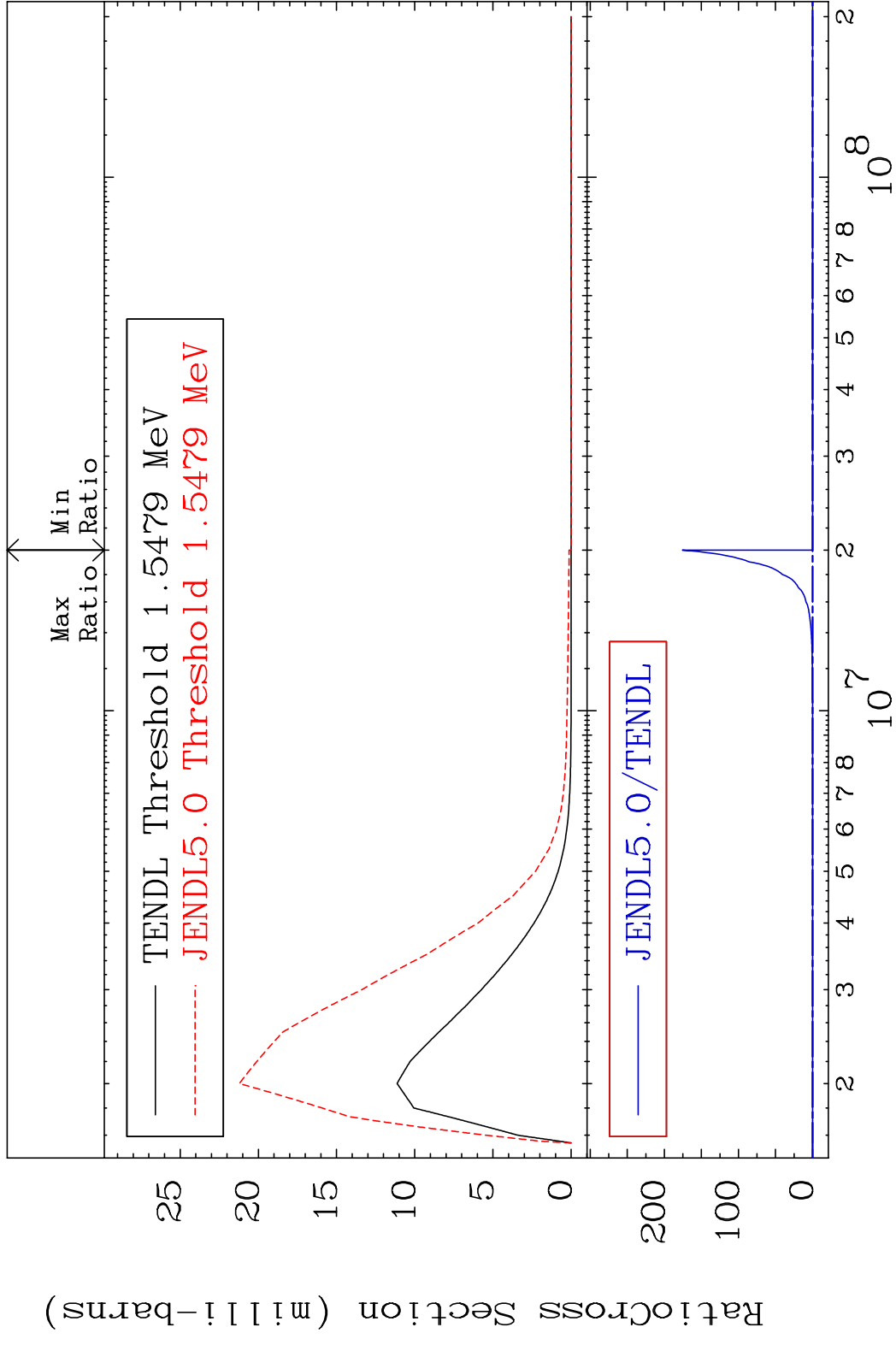
MAT 4123 MT= 78 (n, n') Level 41-Nb-92m  
 Cross Section -100.0 To 9999. %



MAT 4123 MT= 79 (n, n') Level 41-Nb-92m  
 Cross Section -100.0 To 9999. %



MAT 4123 MT= 80 (n, n') Level 41-Nb-92m  
 Cross Section -100.0 To 9999. %



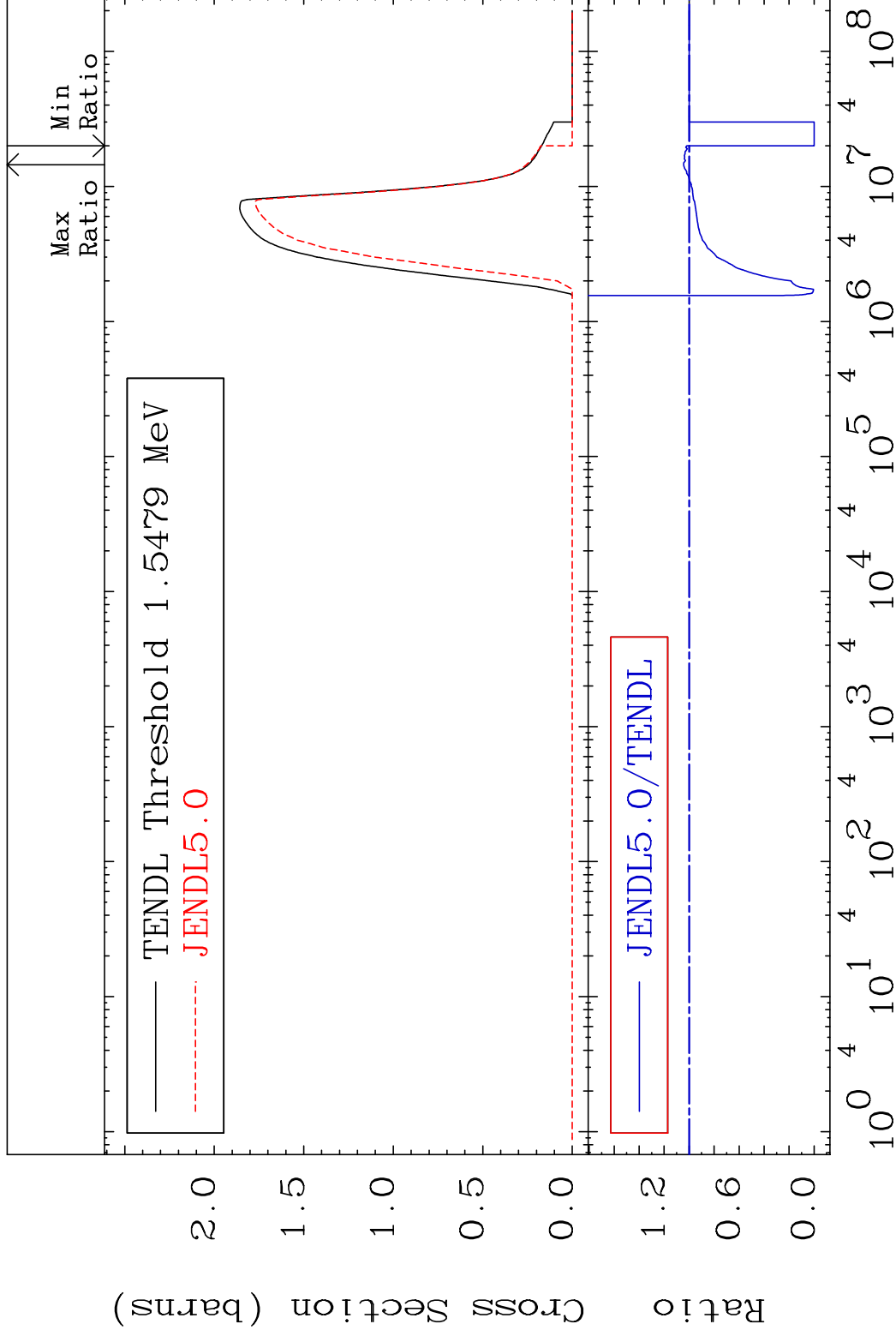


MAT 4123

(n,n') Continuum

41-Nb-92m

Cross Section -100.0 To 4.371 %



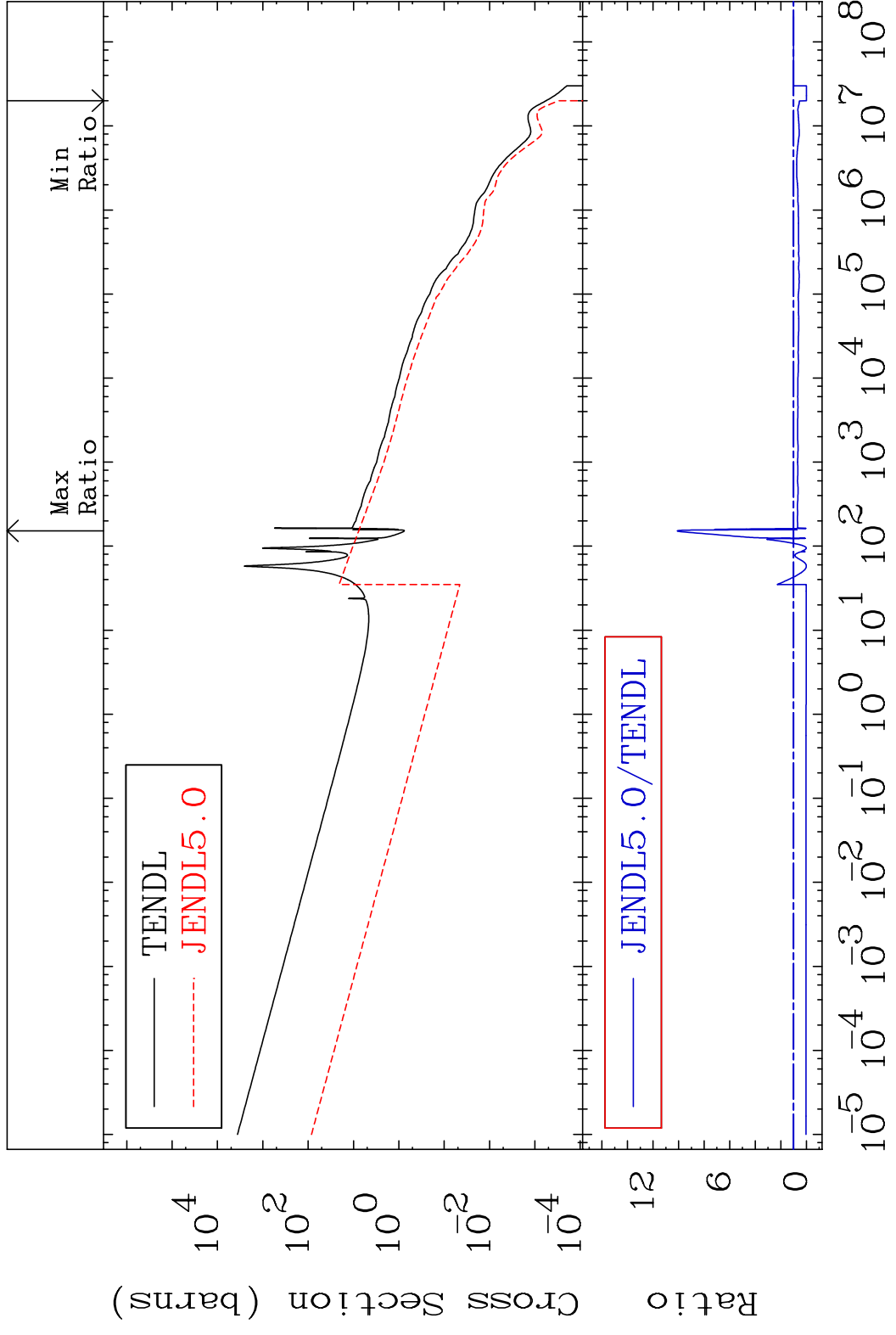
40

Incident Energy (eV)

41-Nb-92m

MAT 4123

(n,  $\gamma$ )  
Cross Section -100.0 To 911.0 %  
41-Nb-92m



41

Incident Energy (eV)

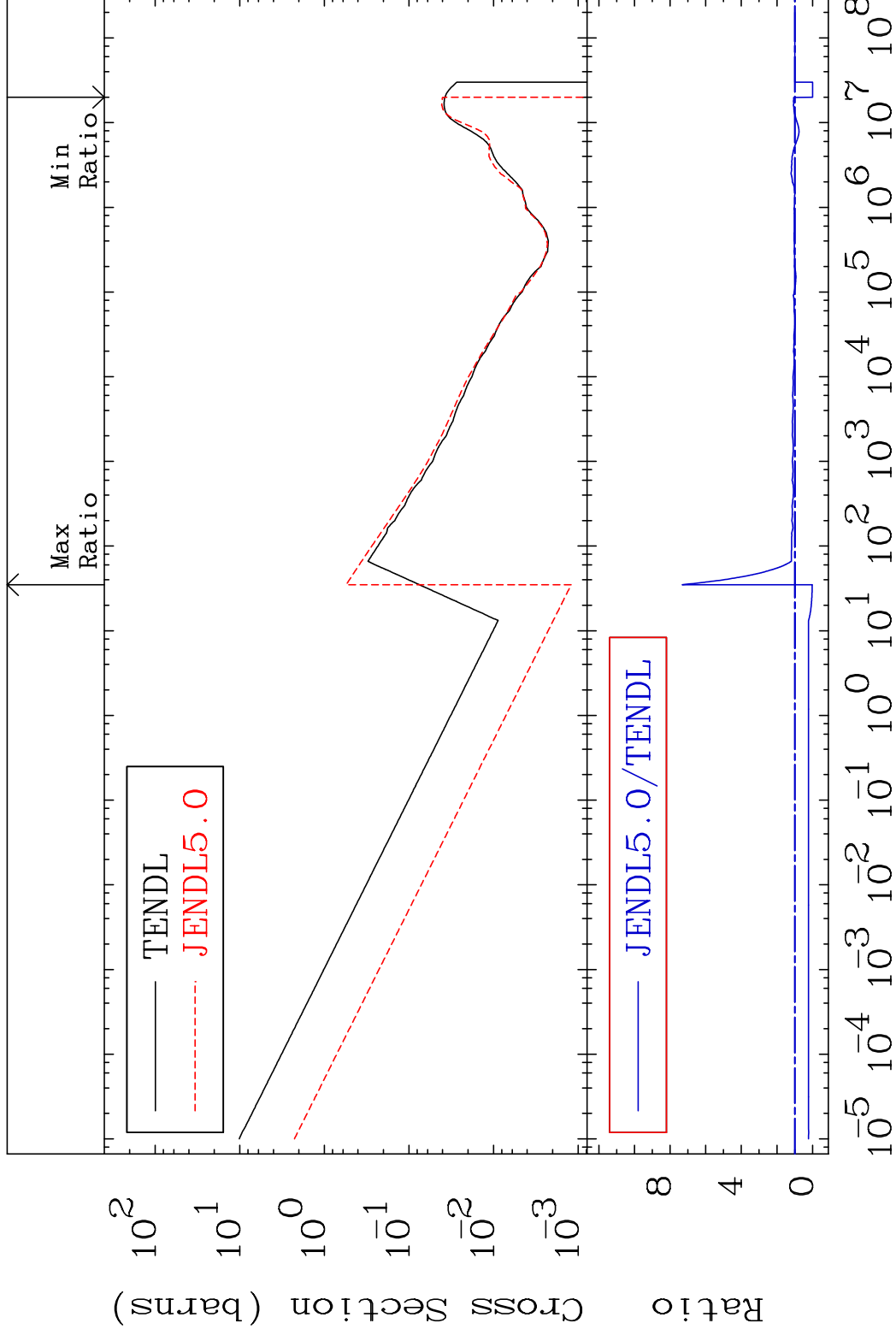
41-Nb-92m

MAT 4123

(n, p)

41-Nb-92m

Cross Section -100.0 To 631.0 %



42

Incident Energy (eV)

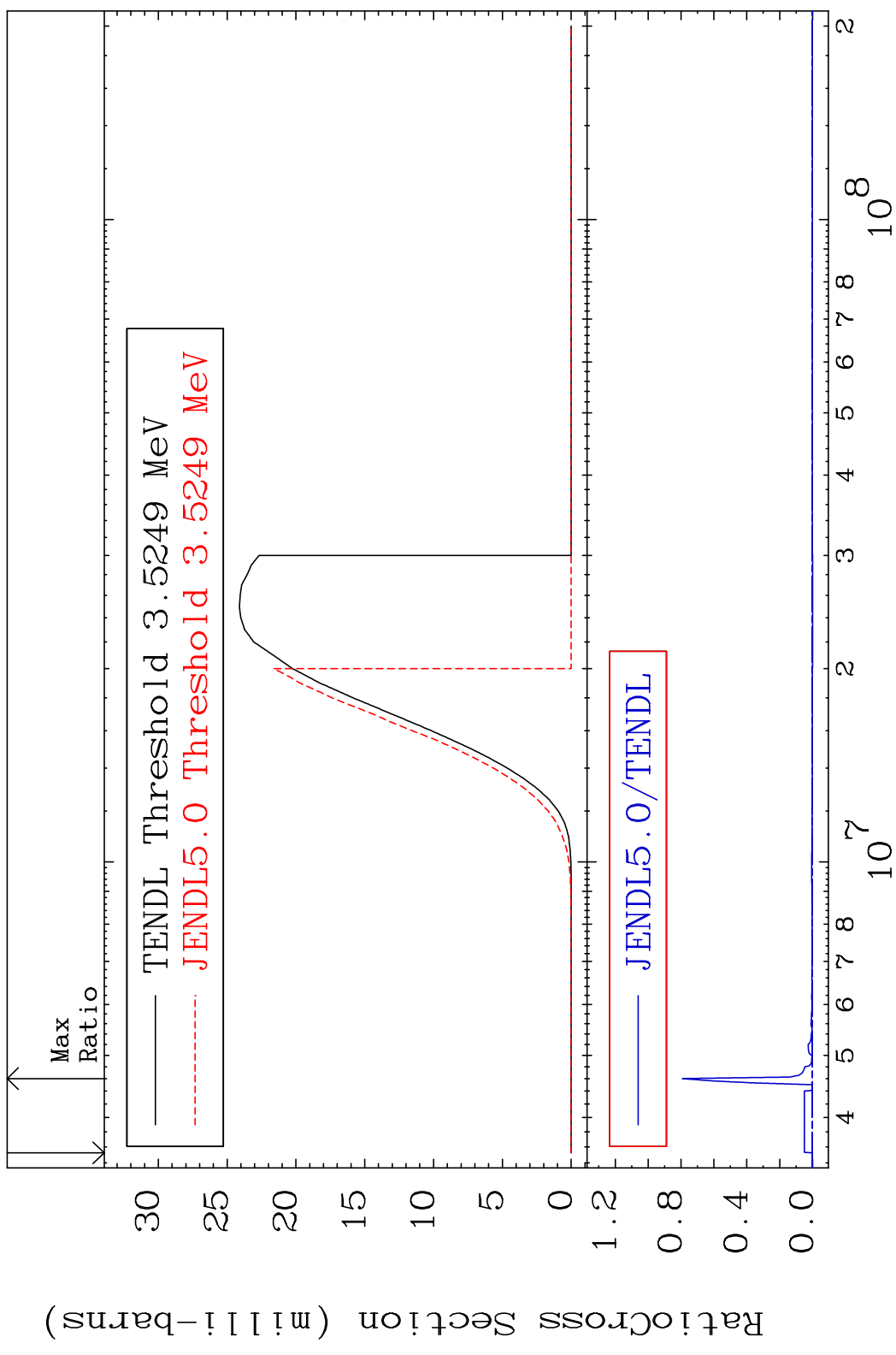
41-Nb-92m

MAT 4123

(n,d)

41-Nb-92m

Cross Section -100.0 To 9999. %

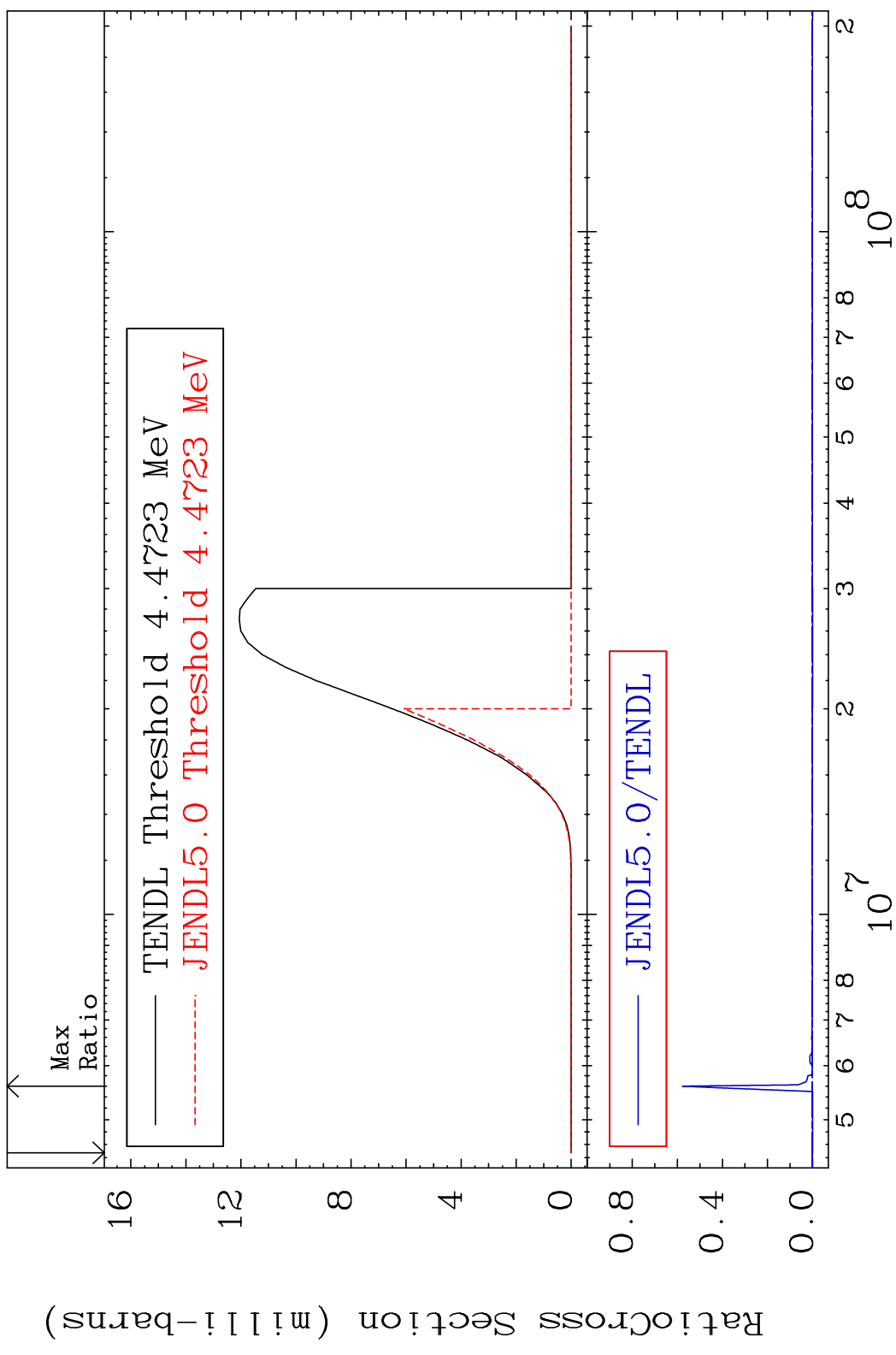


MAT 4123

(n, t)

41-Nb-92m

Cross Section -100.0 To 9999. %

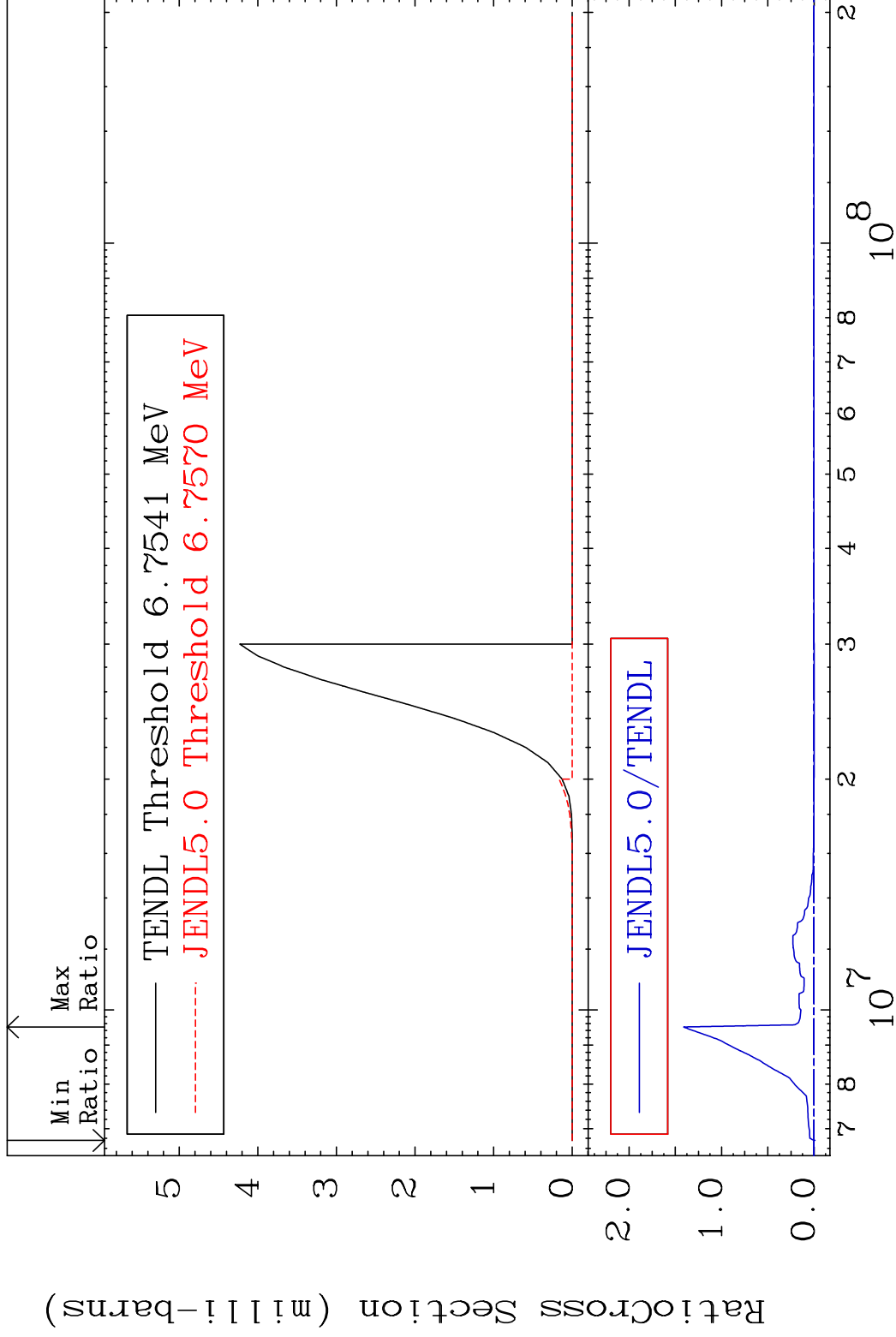


MAT 4123

(n, He-3)

41-Nb-92m

Cross Section -100.0 To 9999. %



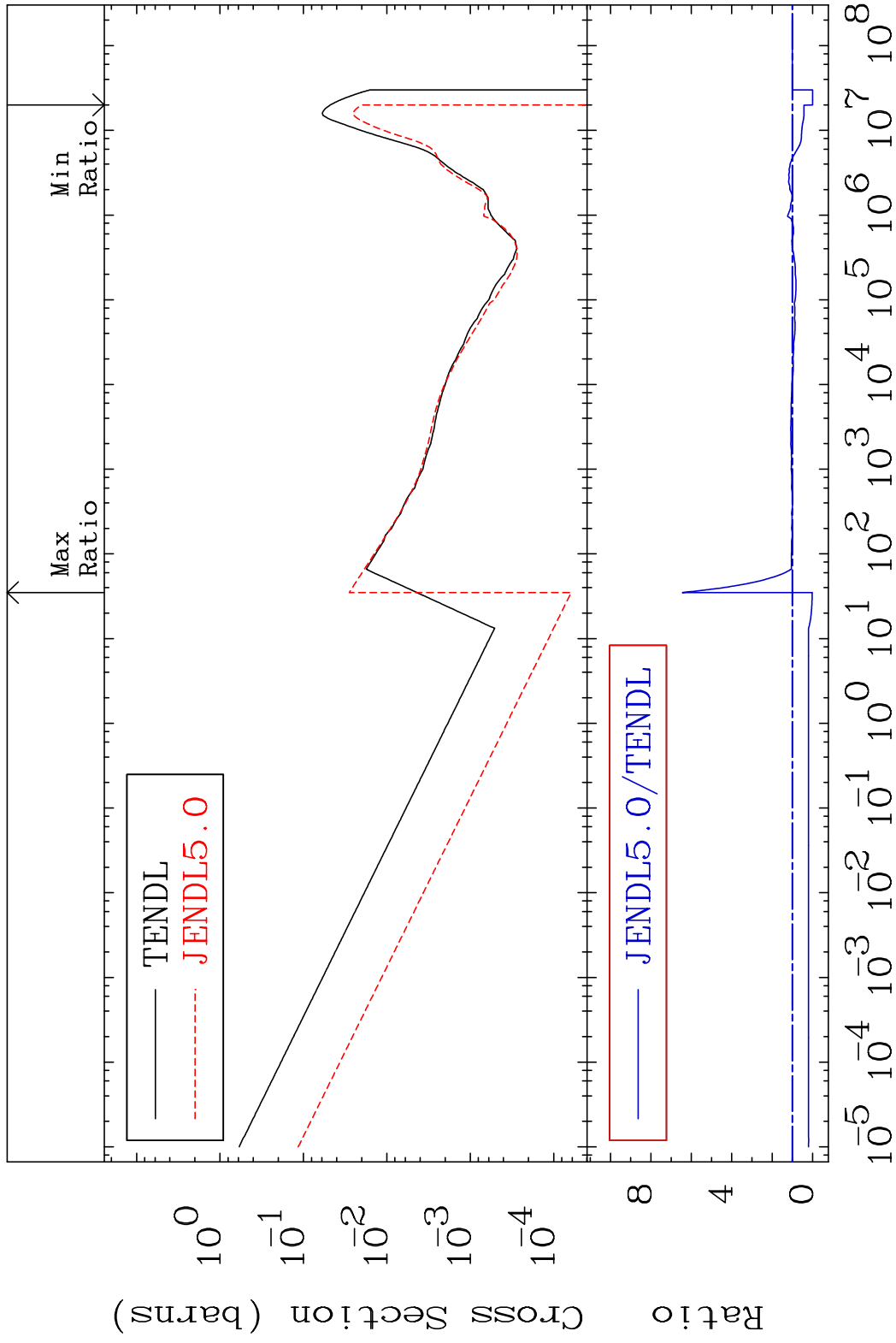
45

Incident Energy (eV)

41-Nb-92m

MAT 4123

(n,  $\alpha$ )  
Cross Section -100.0 To 544.4 %  
41-Nb-92m

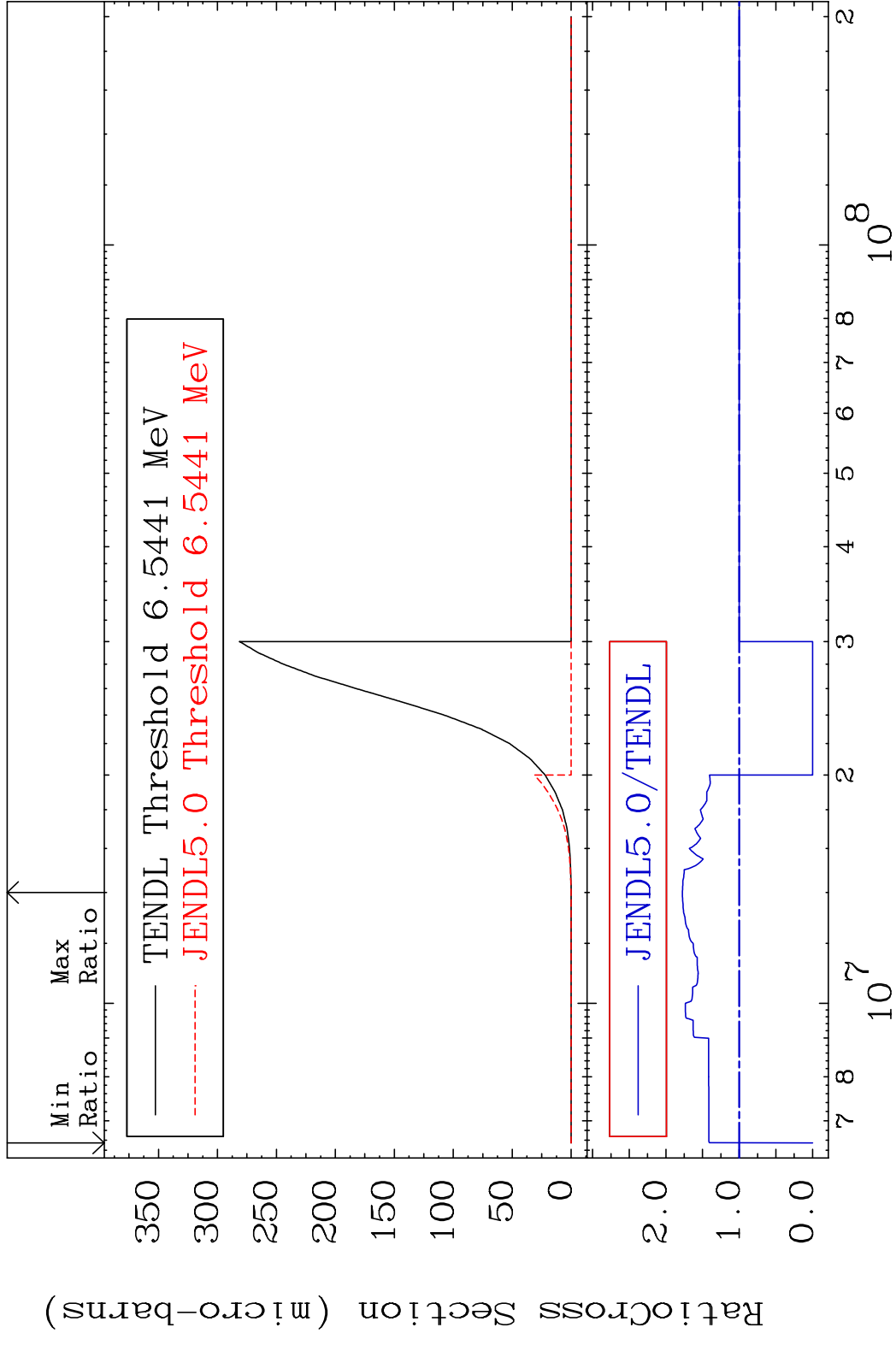


46

Incident Energy (eV)

41-Nb-92m

MAT 4123 (n,2p) 41-Nb-92m  
 Cross Section -100.0 To 77.56 %



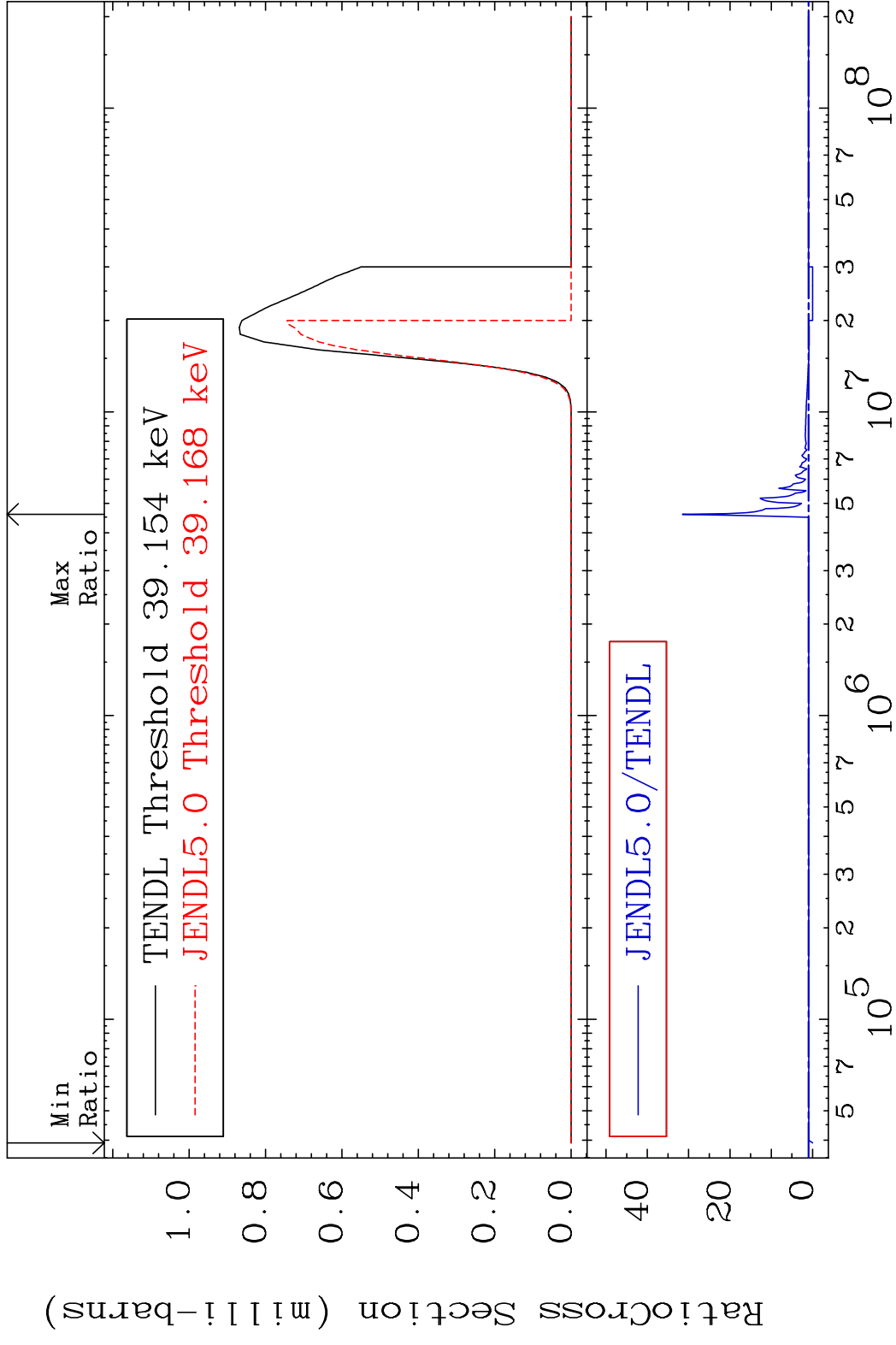


MAT 4123

(n,p)  $\alpha$

41-Nb-92m

Cross Section -100.0 To 3052. %

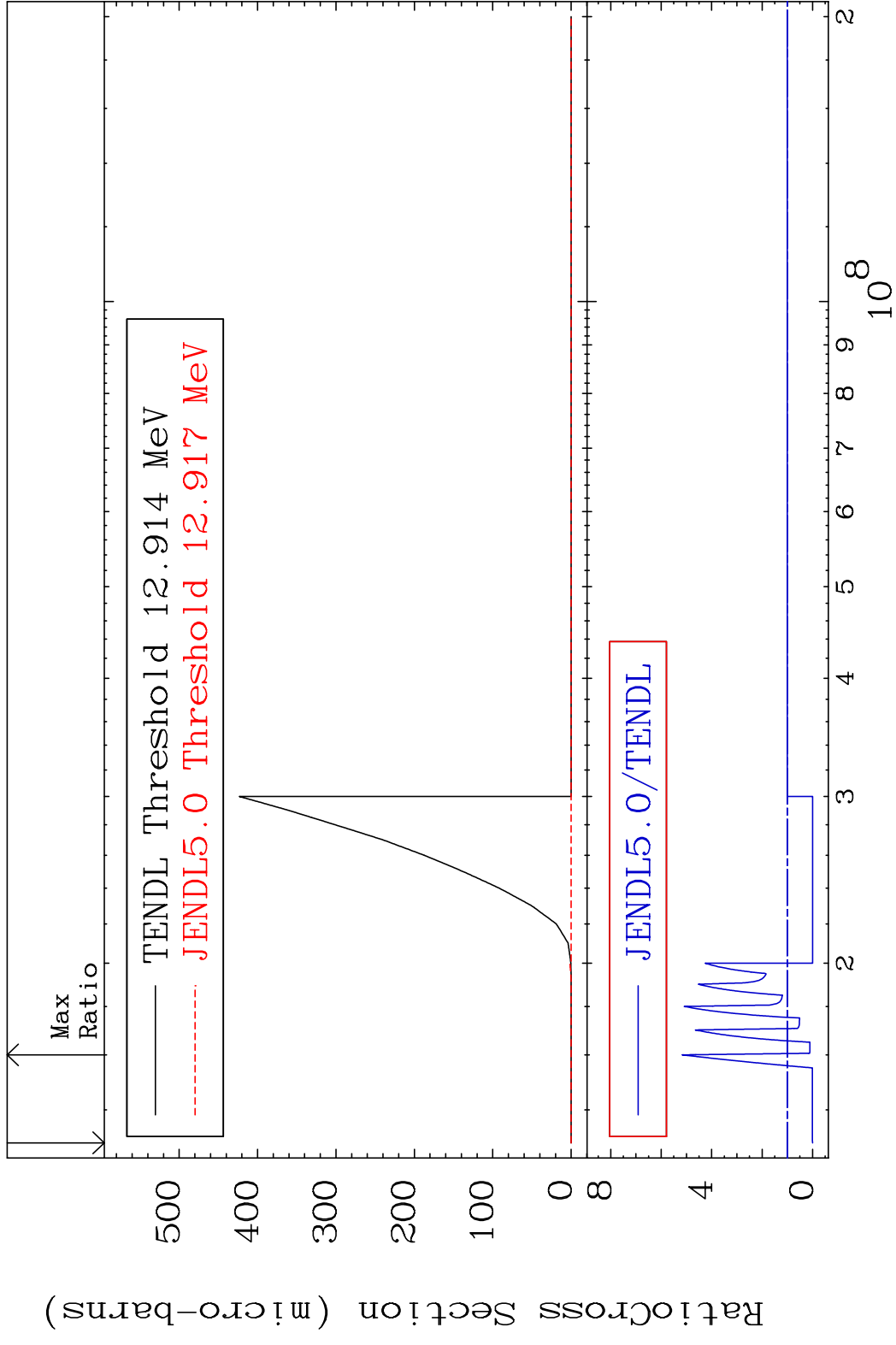


MAT 4123

(n,p) t

41-Nb-92m

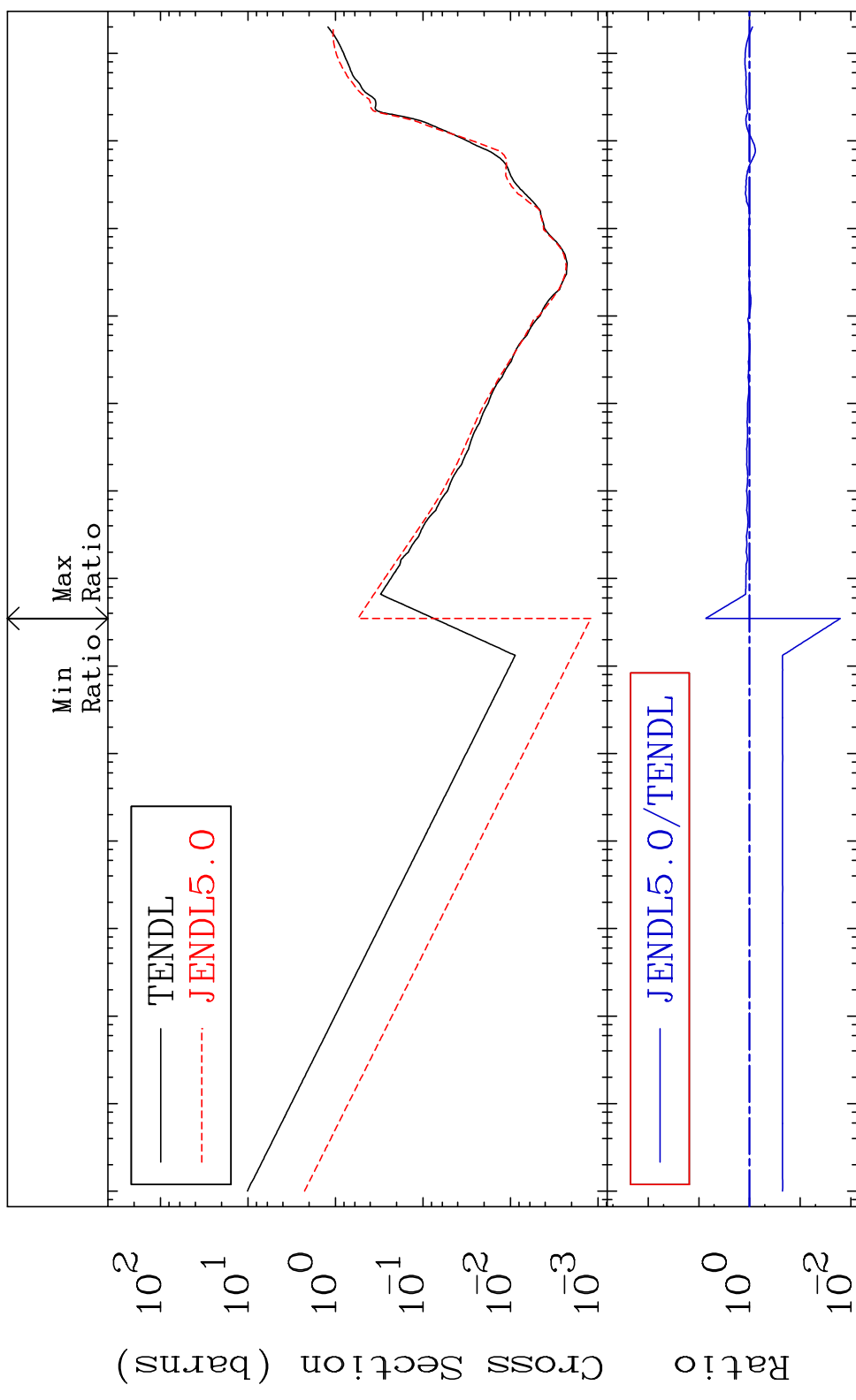
Cross Section -100.0 To 416.1 %



MAT 4123

Hydrogen Production  
Cross Section -98.40 To 631.0 %

41-Nb-92m

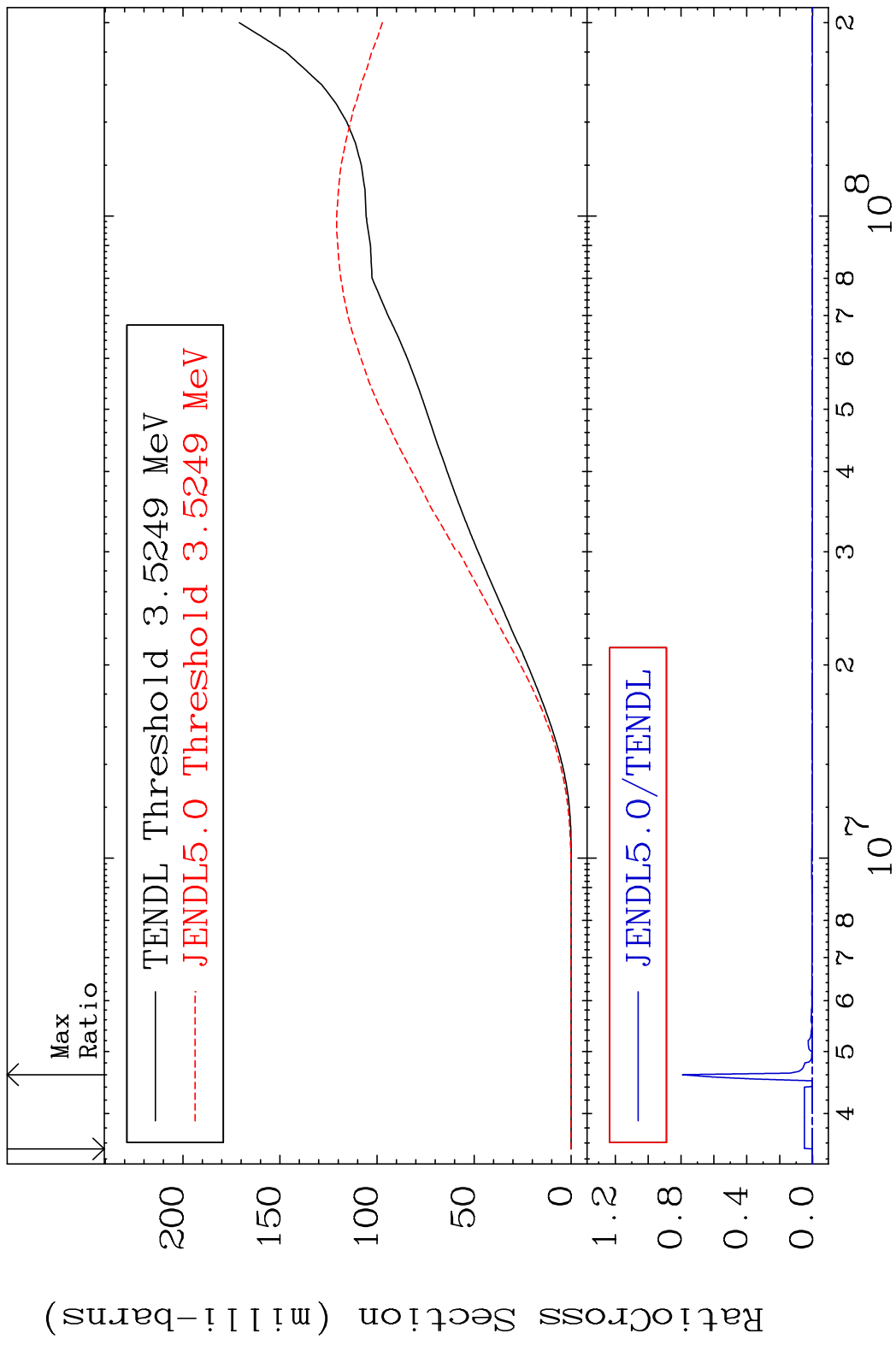


50

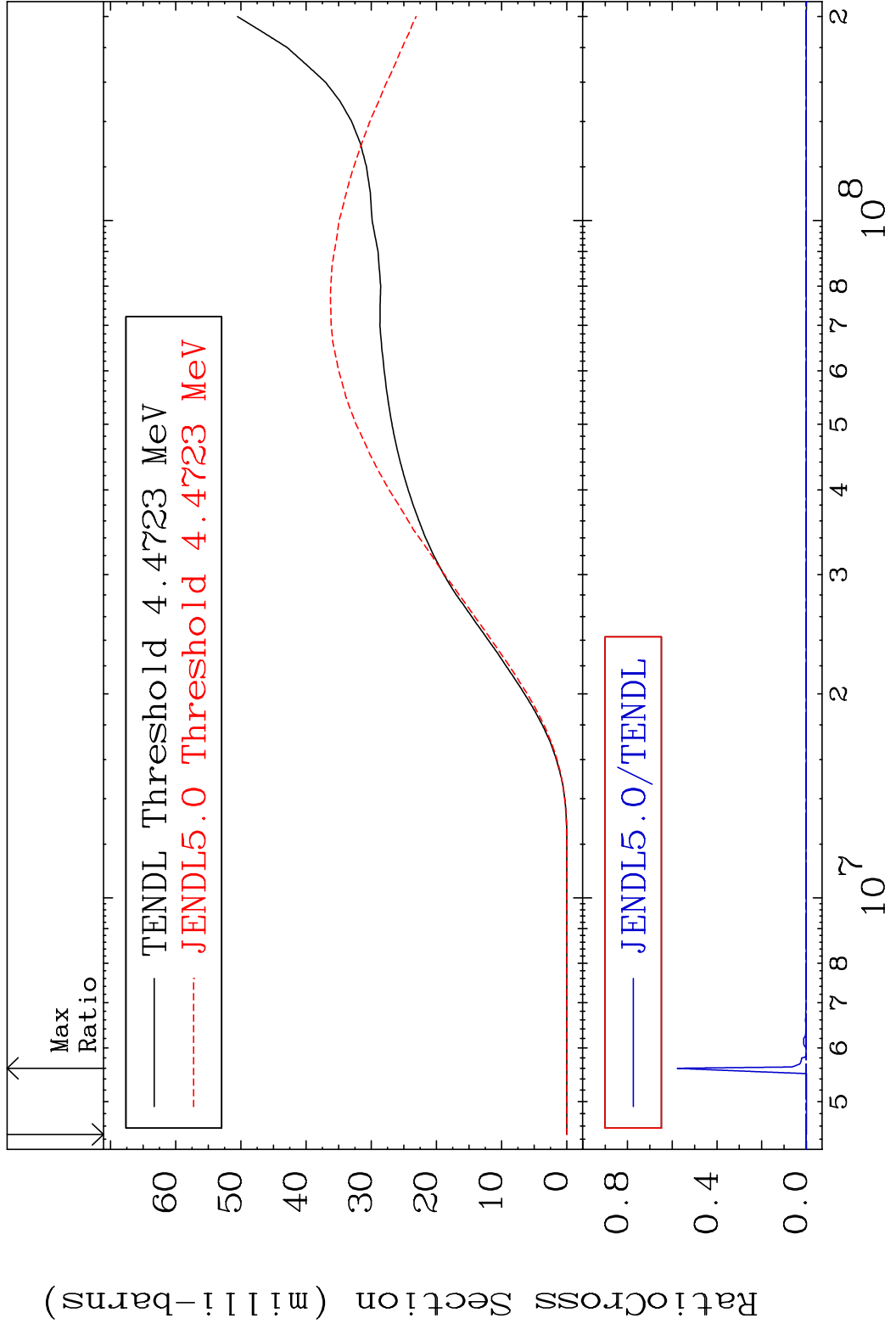
Incident Energy (eV)

41-Nb-92m

MAT 4123 Deuterium Production 41-Nb-92m  
 Cross Section -100.0 To 9999. %



MAT 4123 Tritium Production 41-Nb-92m  
 Cross Section -100.0 To 9999. %

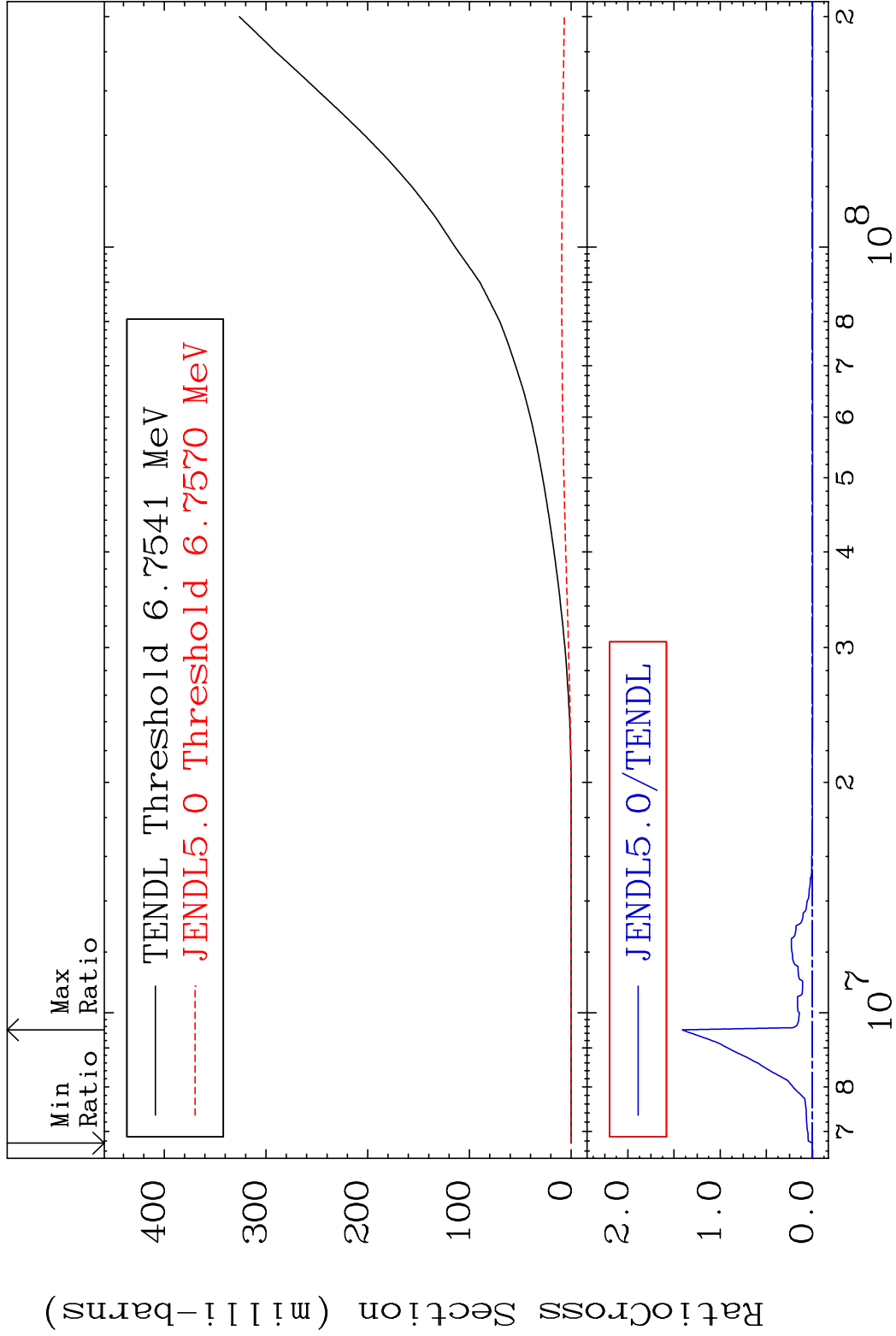


MAT 4123

He-3 Production

41-Nb-92m

Cross Section -100.0 To 9999. %



53

Incident Energy (eV)

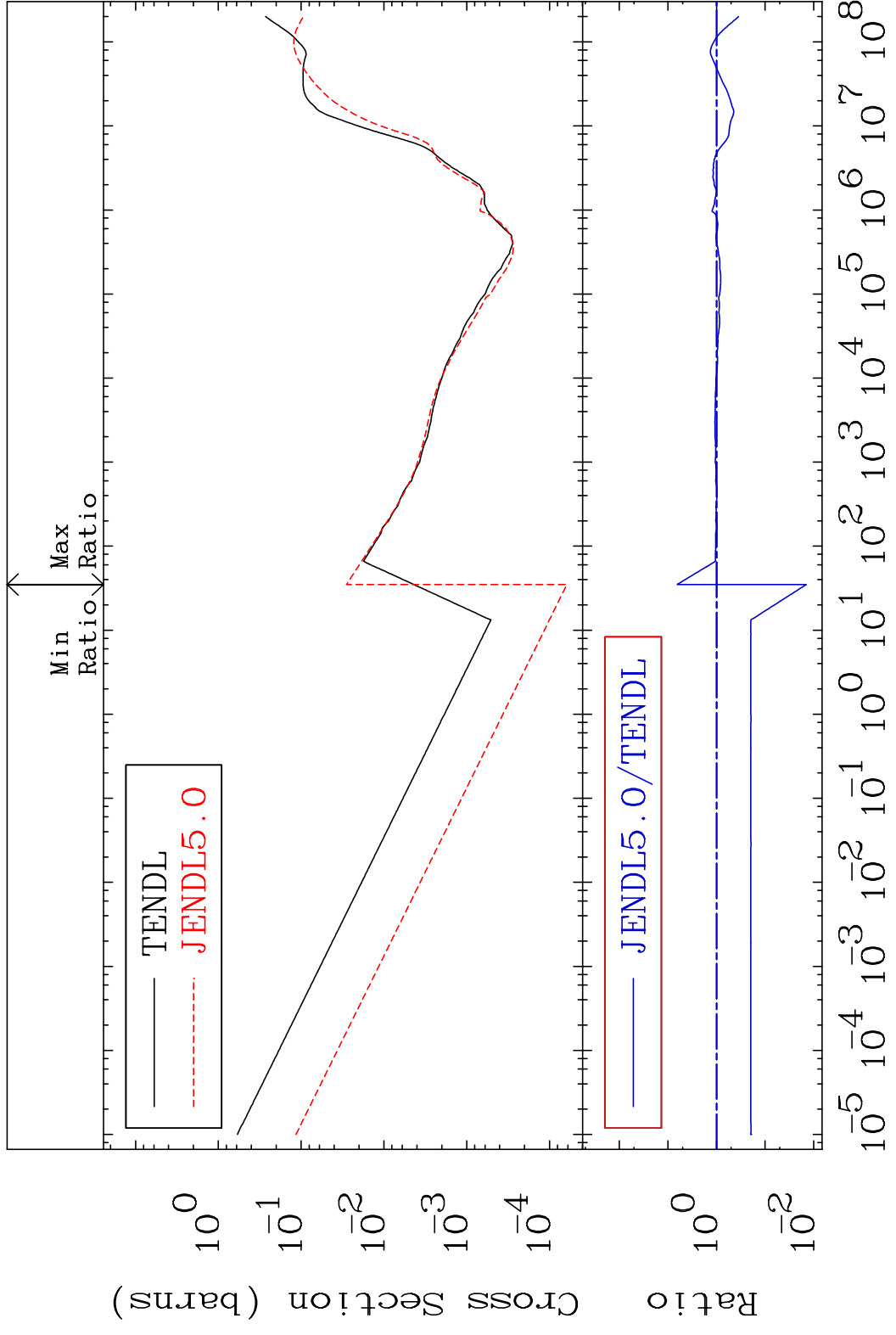
41-Nb-92m

MAT 4123

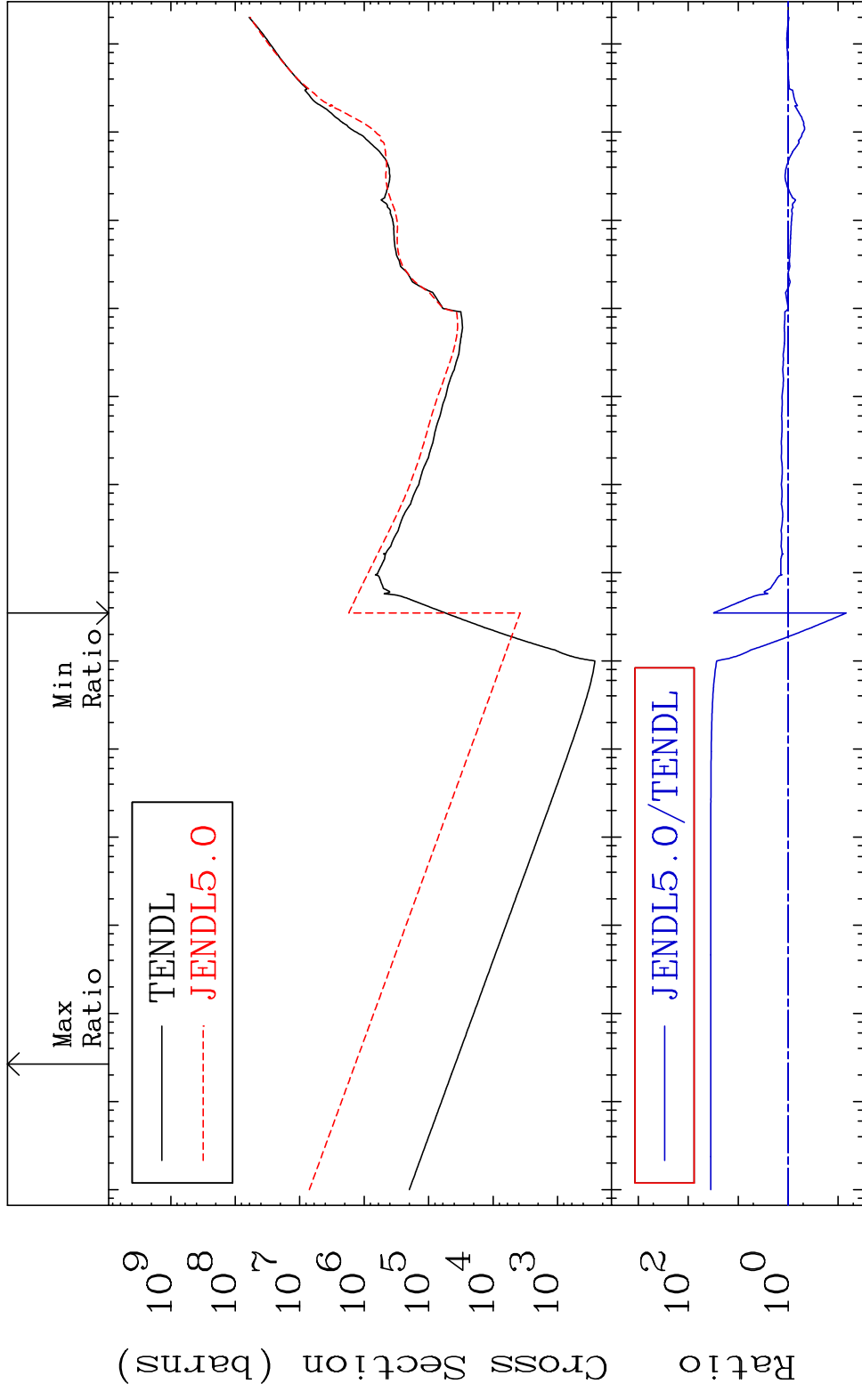
He-4 Production

41-Nb-92m

Cross Section -98.59 To 544.4 %



MAT 4123 Kerma total (eV-barns) 41-Nb-92m  
 Cross Section -93.14 To 3457. %

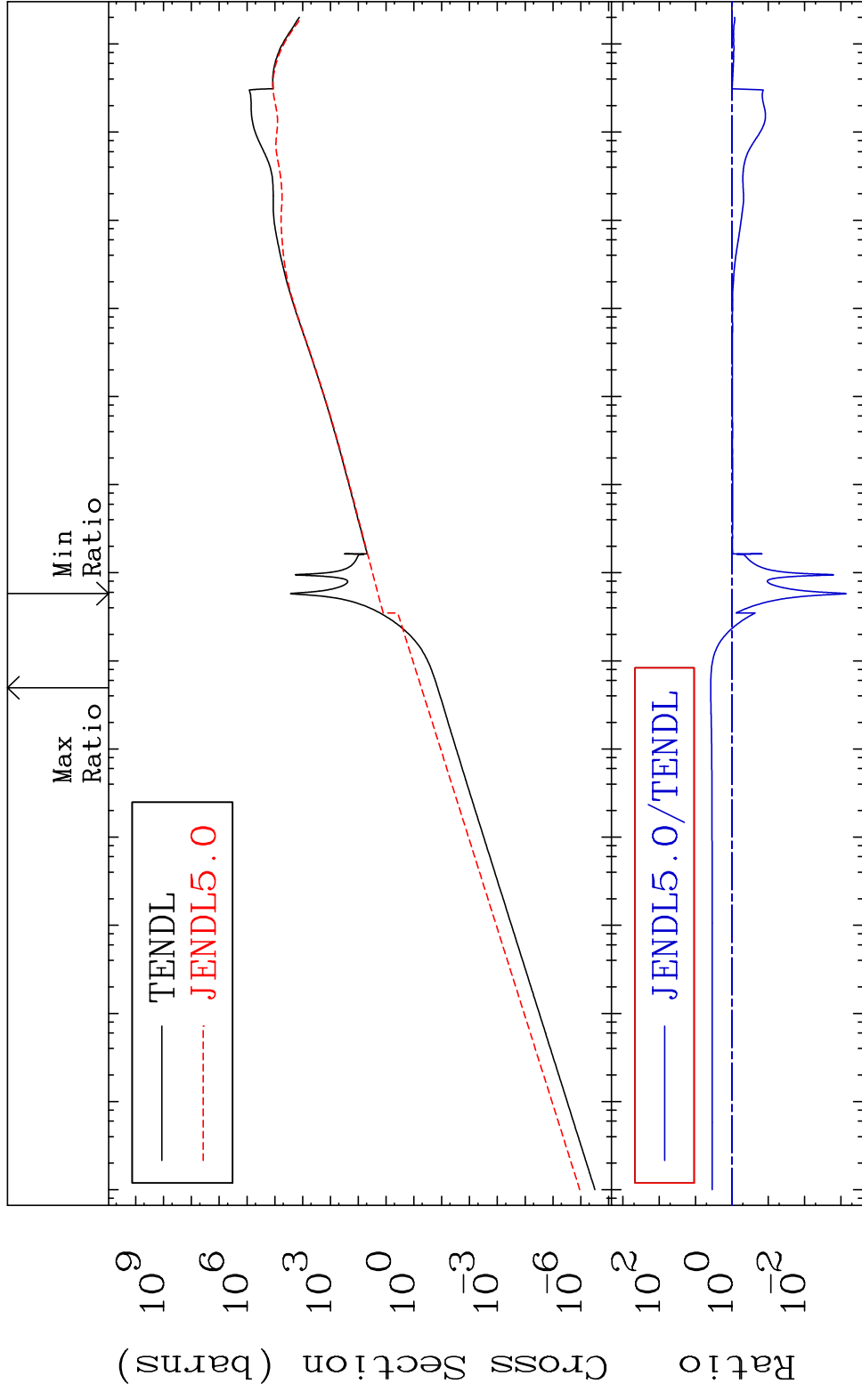




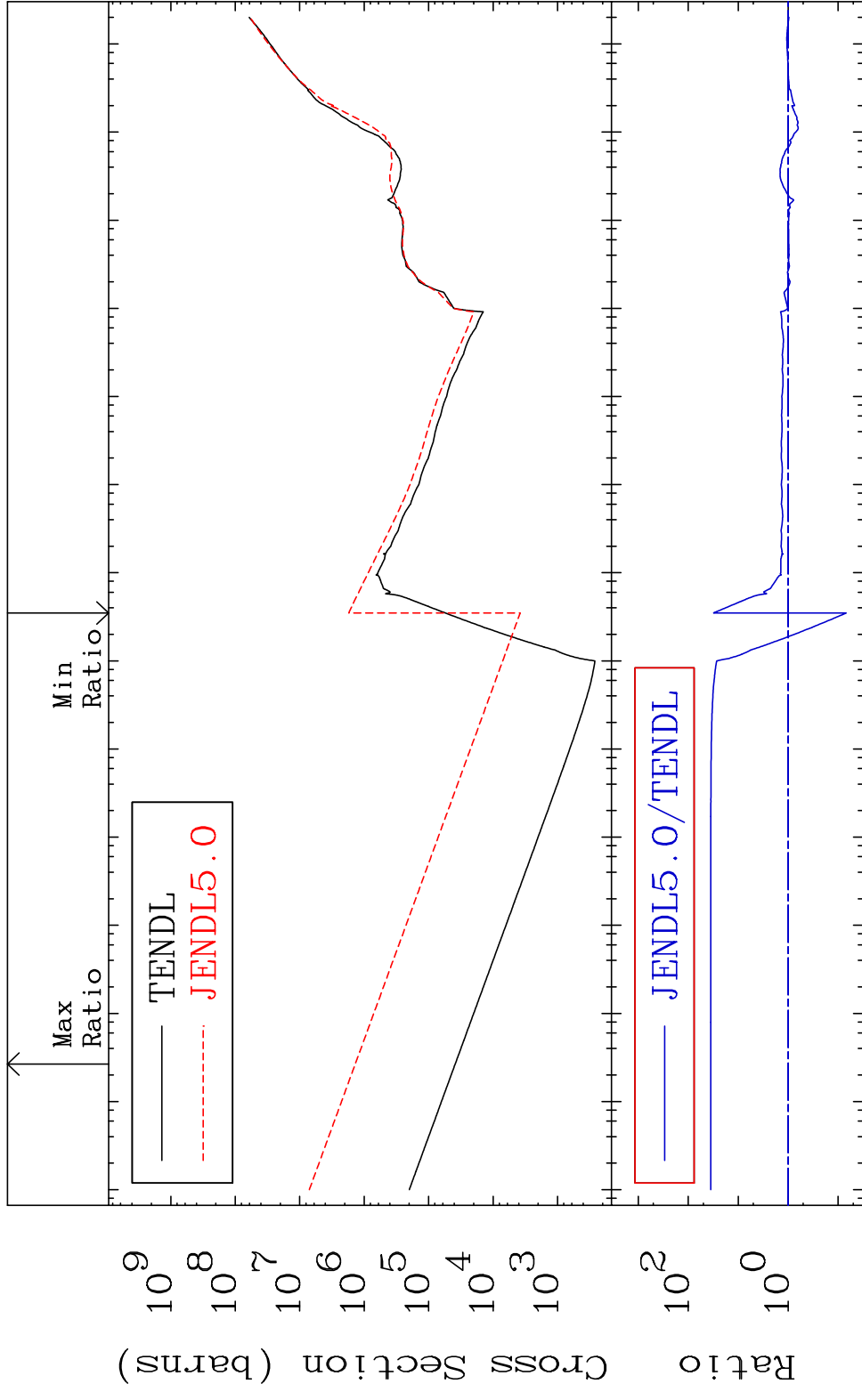
MAT 4123

Kerma elastic  
Cross Section

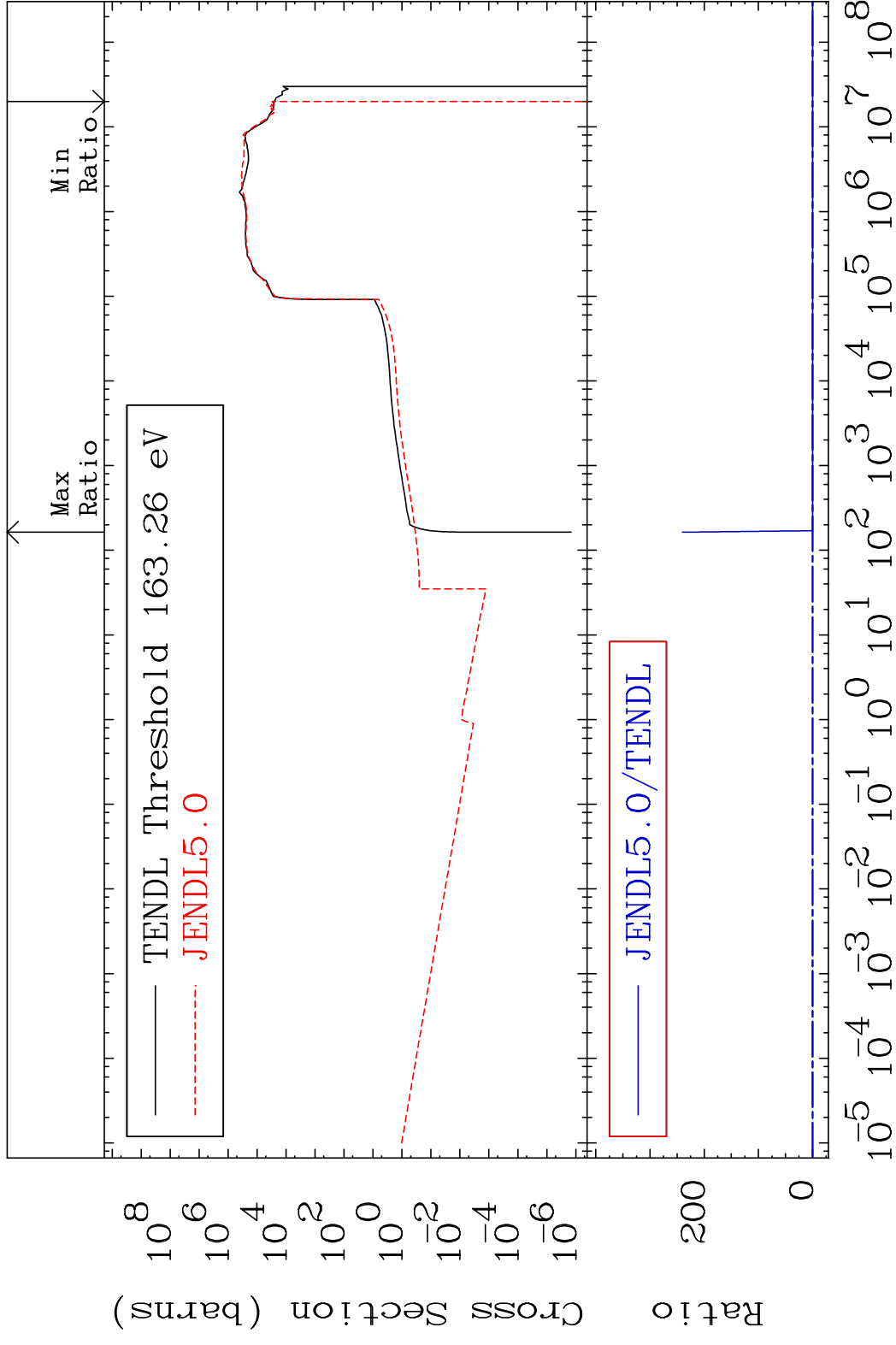
41-Nb-92m  
-99.93 To 284.0 %



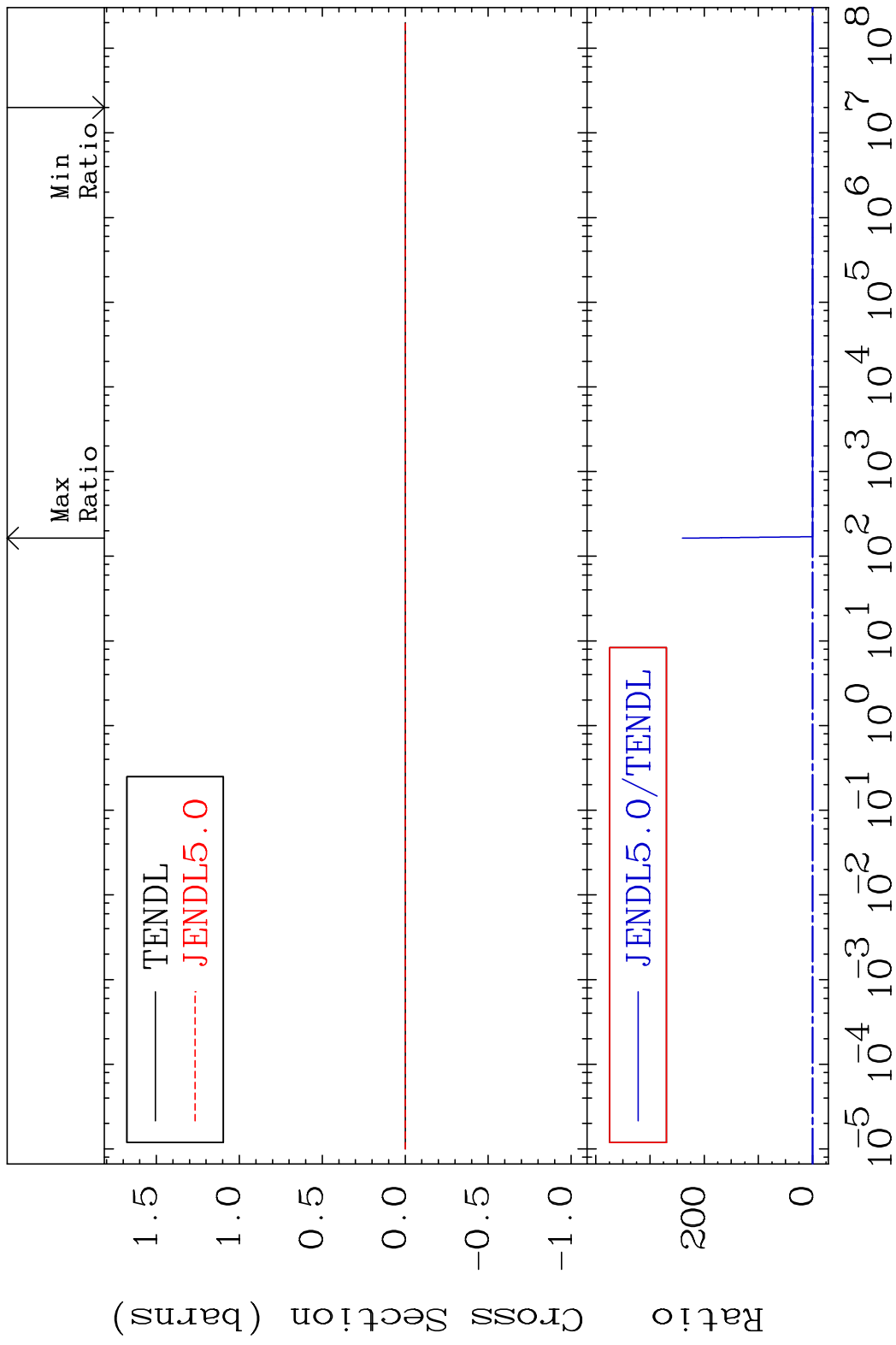
MAT 4123 Kerma non-elastic (all but mt2) 41-Nb-92m  
 Cross Section -93.15 To 3457. %



MAT 4123 Kerma inelastic (mt51-91) 41-Nb-92m  
 Cross Section -100.0 To 9999. %

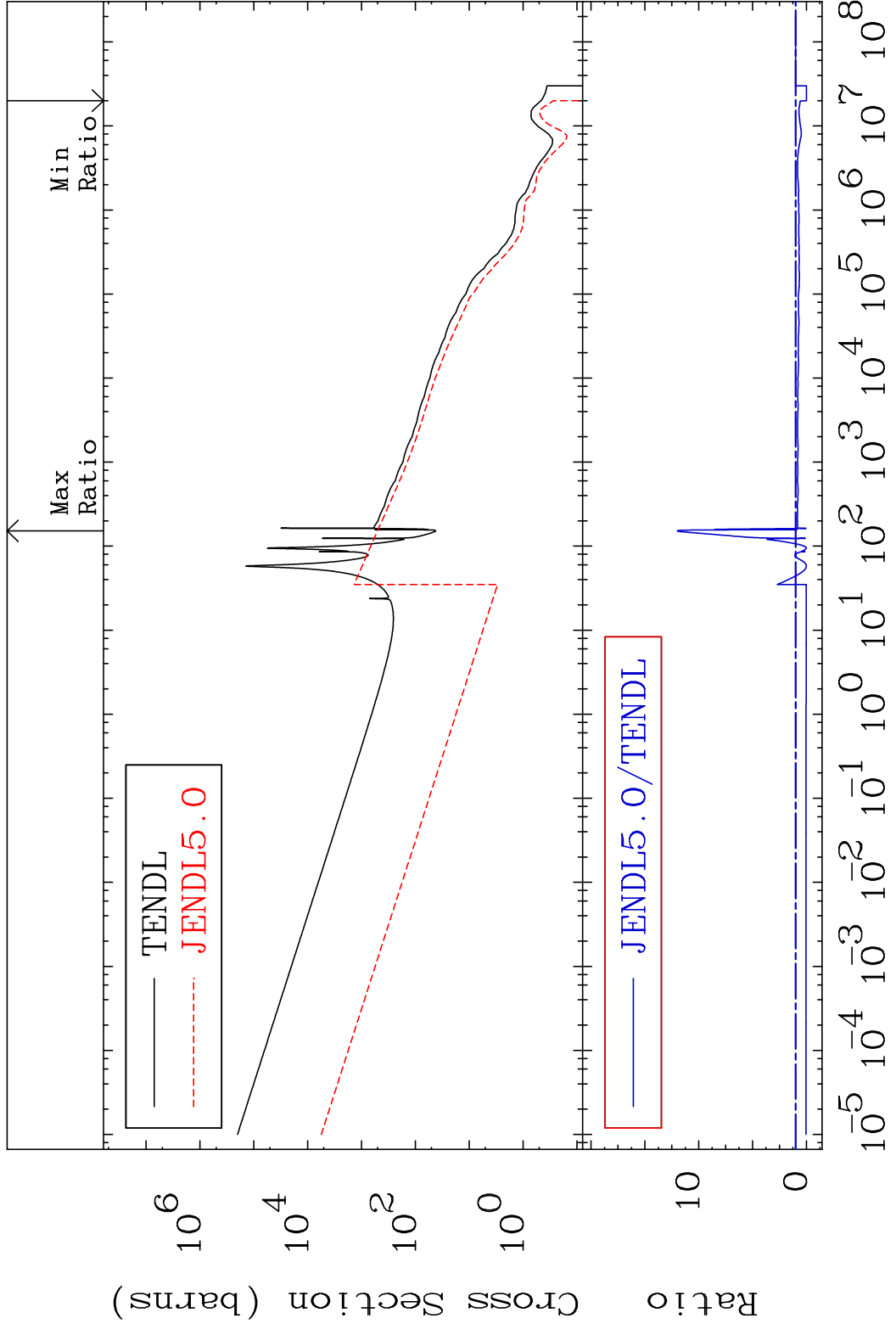


MAT 4123 Kerma fission (mt18 or mt19-20-21-38) 41-Nb-92m  
 Cross Section -100.0 To 9999. %



MAT 4123

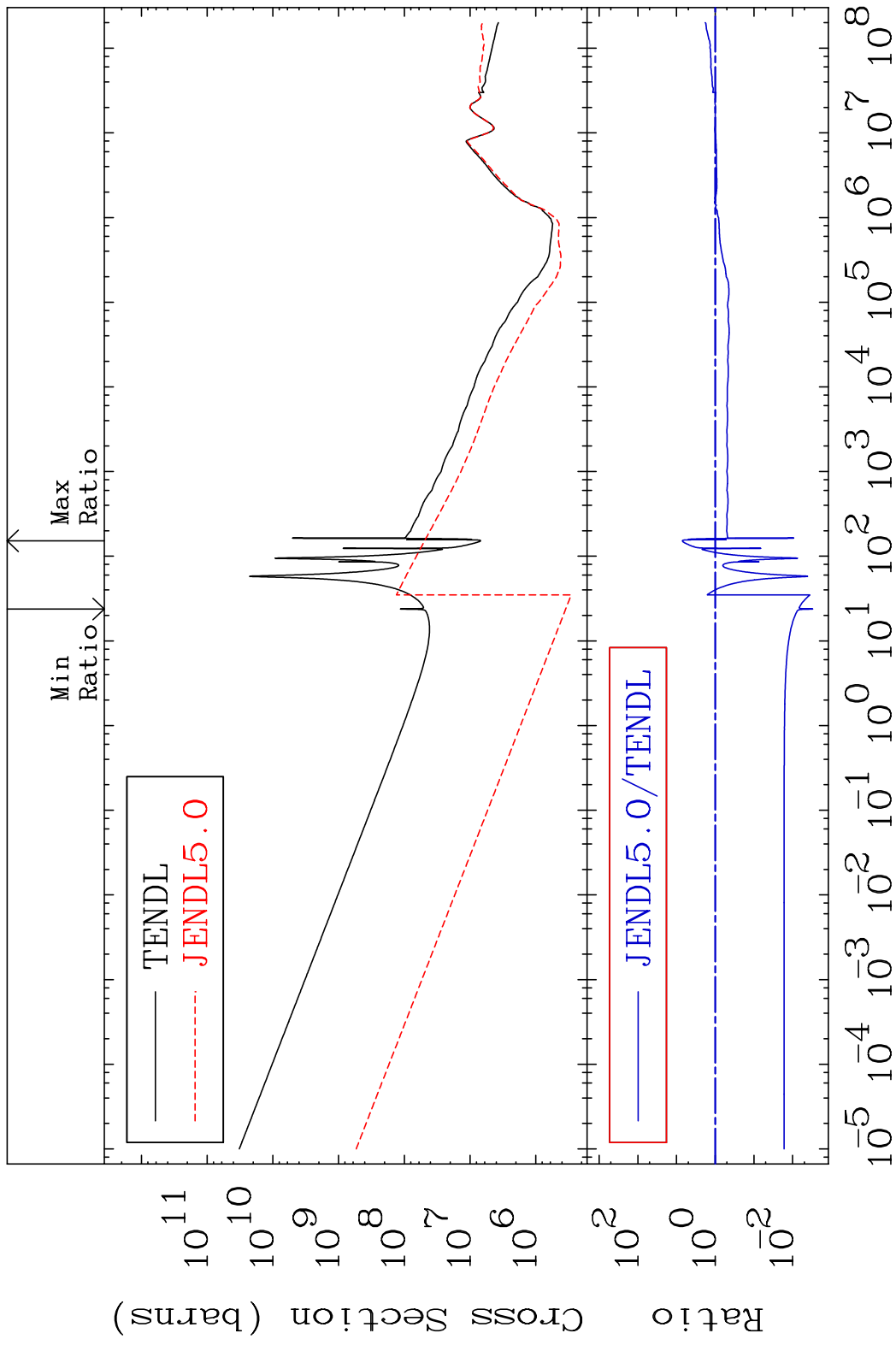
Kerma capture (mt102) 41-Nb-92m  
Cross Section -100.0 To 1100. %



60

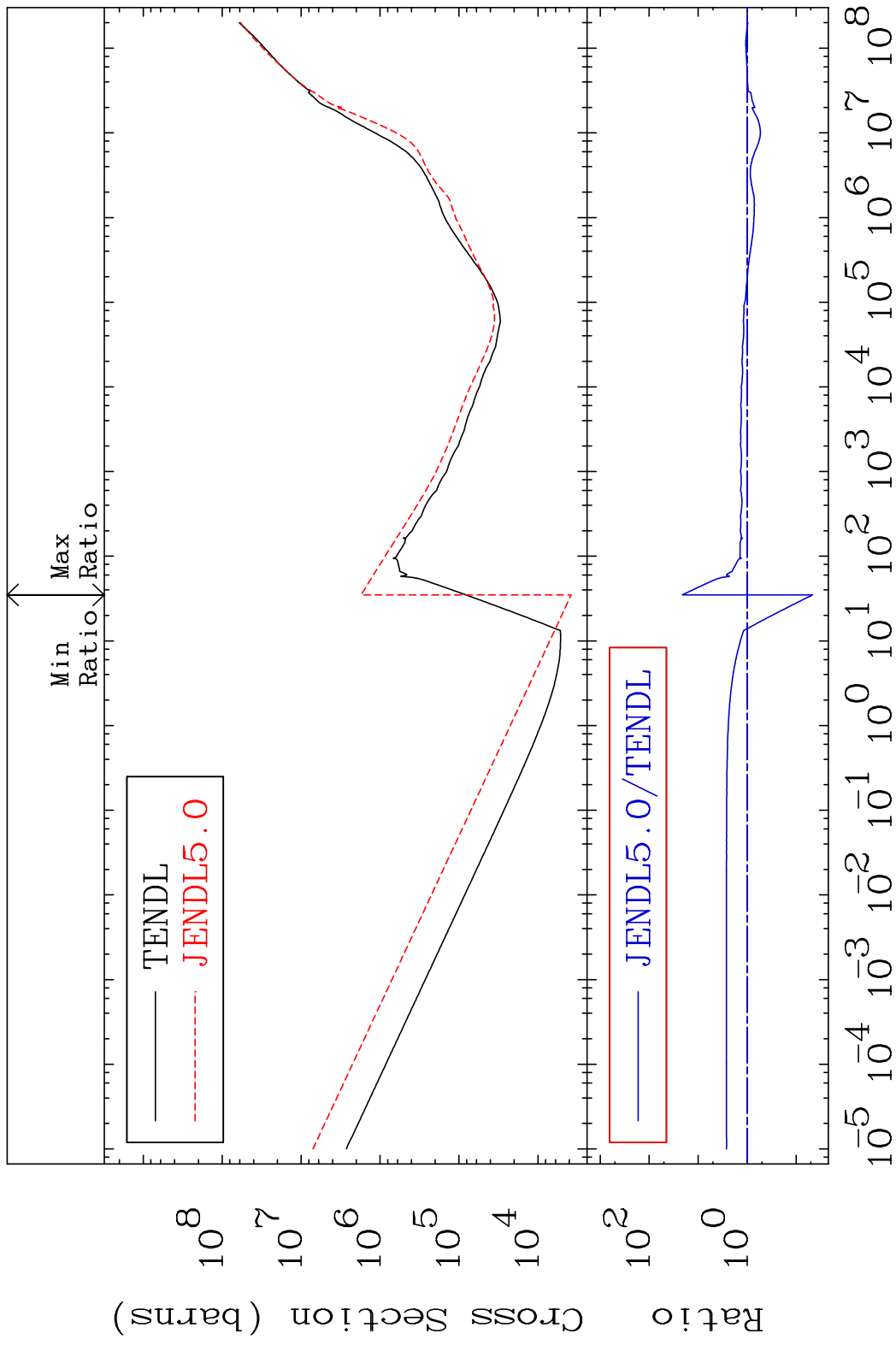
Incident Energy (eV) 41-Nb-92m

MAT 4123 Total photon (eV-barns) 41-Nb-92m  
 Cross Section -99.69 To 608.8 %



61 Incident Energy (eV) 41-Nb-92m

MAT 4123 Total kinematic kerma (high limit) 41-Nb-92m  
 Cross Section -95.39 To 2003. %



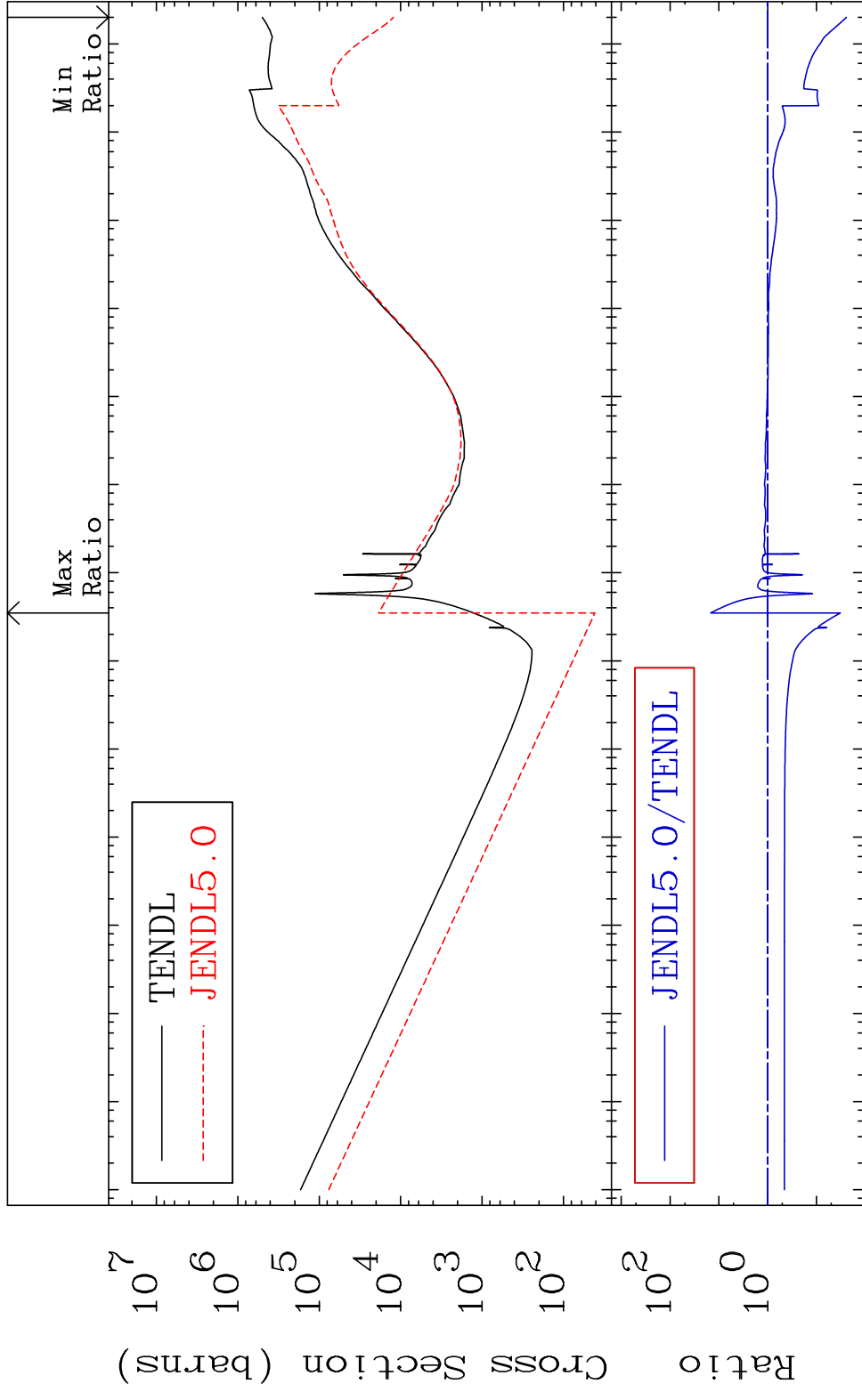
62 Incident Energy (eV) 41-Nb-92m

MAT 4123

Dpa total (eV-barns)

41-Nb-92m

Cross Section -97.56 To 1369. %



63

Incident Energy (eV)

41-Nb-92m



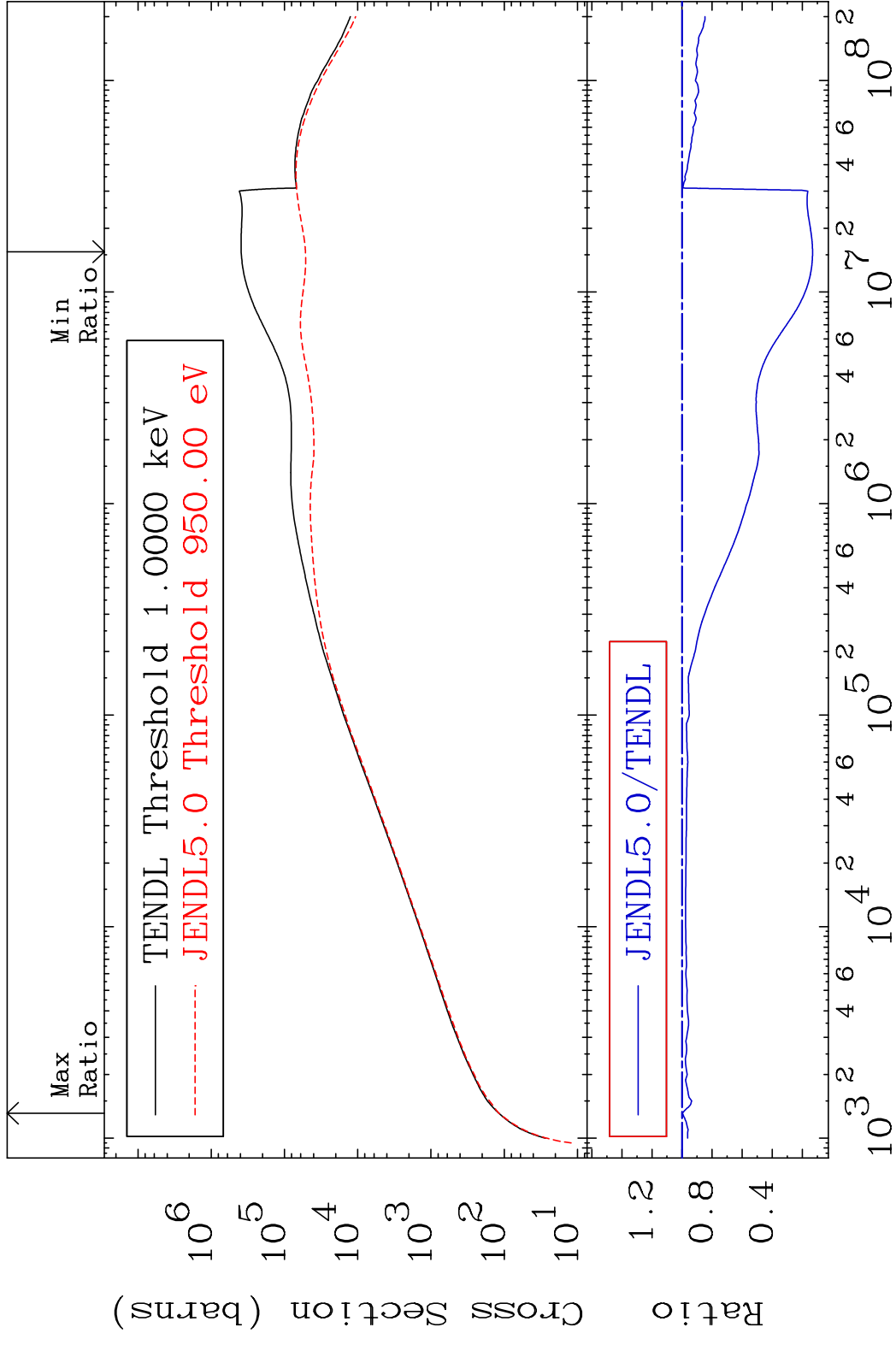
MAT 4123

Dpa elastic (mt2)

41-Nb-92m

Cross Section

-86.75 To -0.210%



64

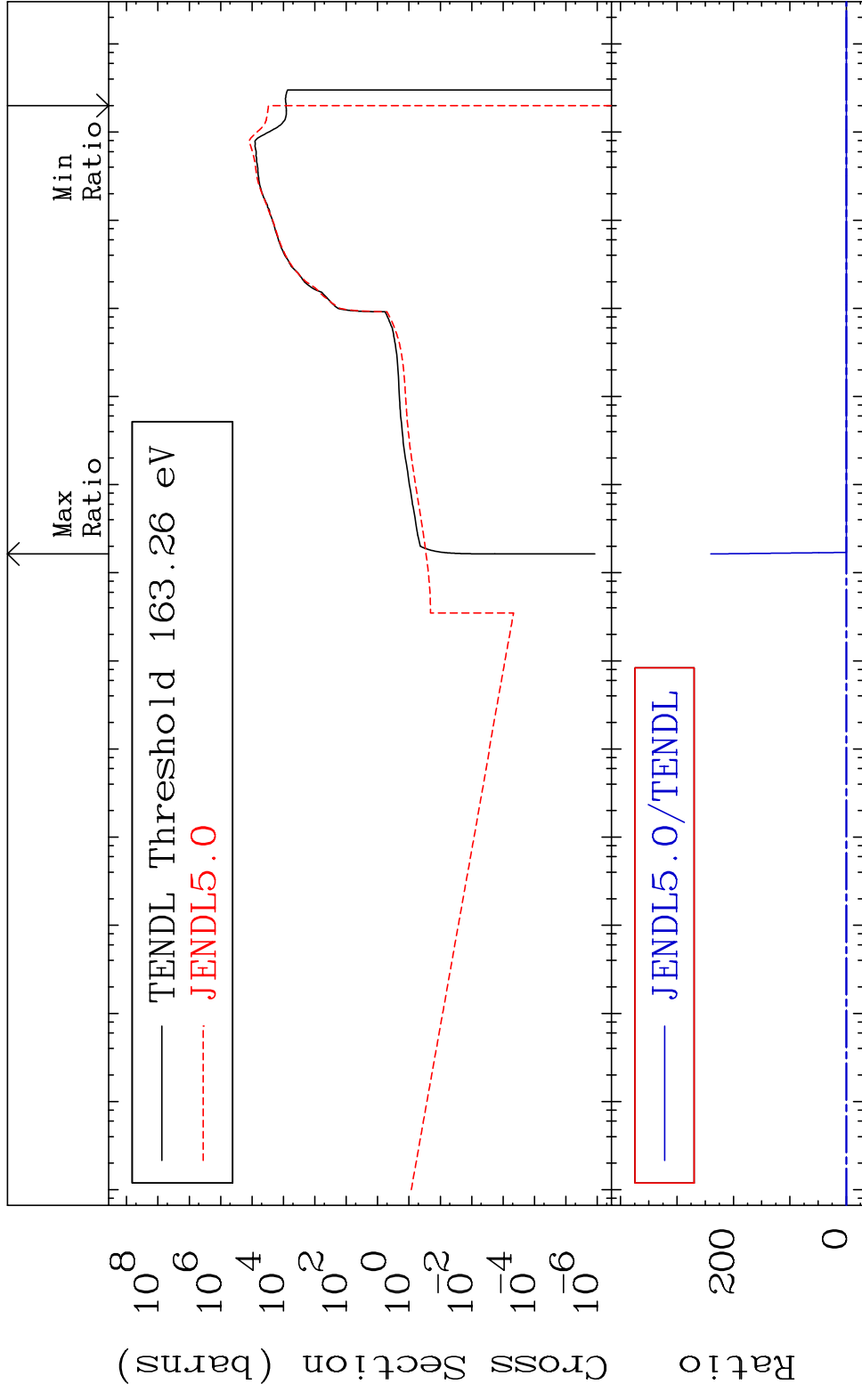
Incident Energy (eV)

41-Nb-92m

MAT 4123

Dpa inelastic (mt51-91) 41-Nb-92m

Cross Section -100.0 To 9999. %



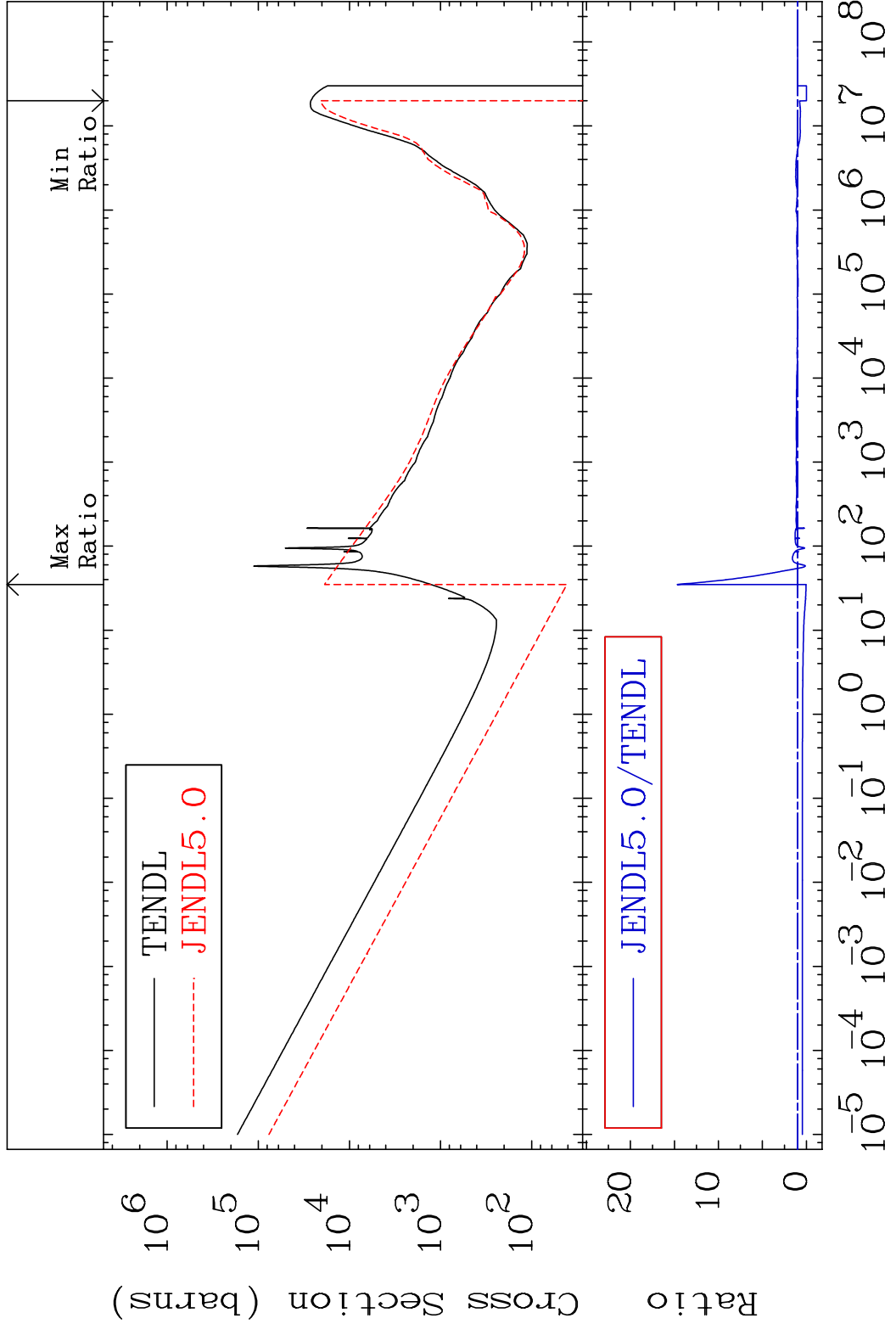
10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

65

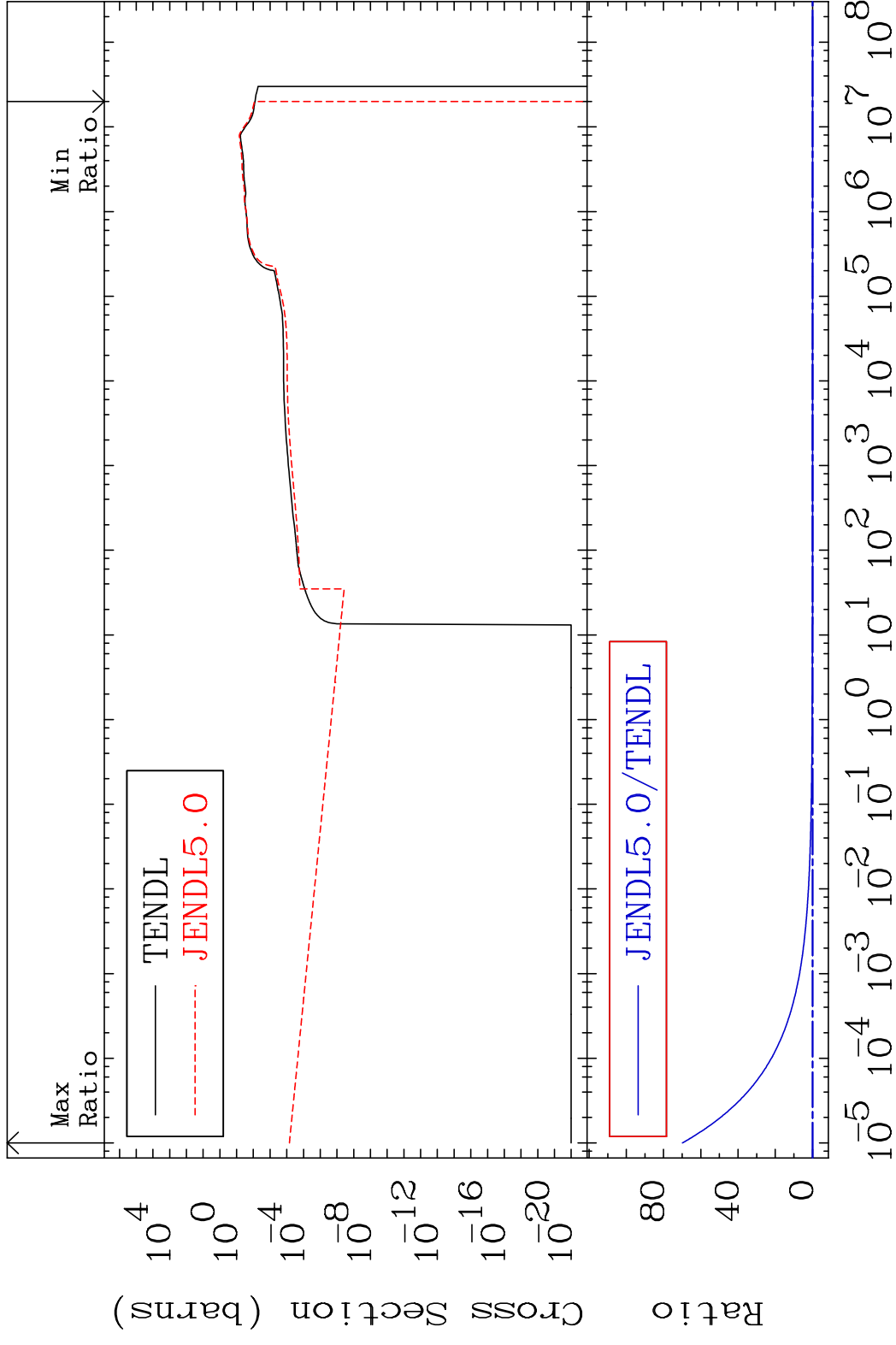
Incident Energy (eV)

41-Nb-92m

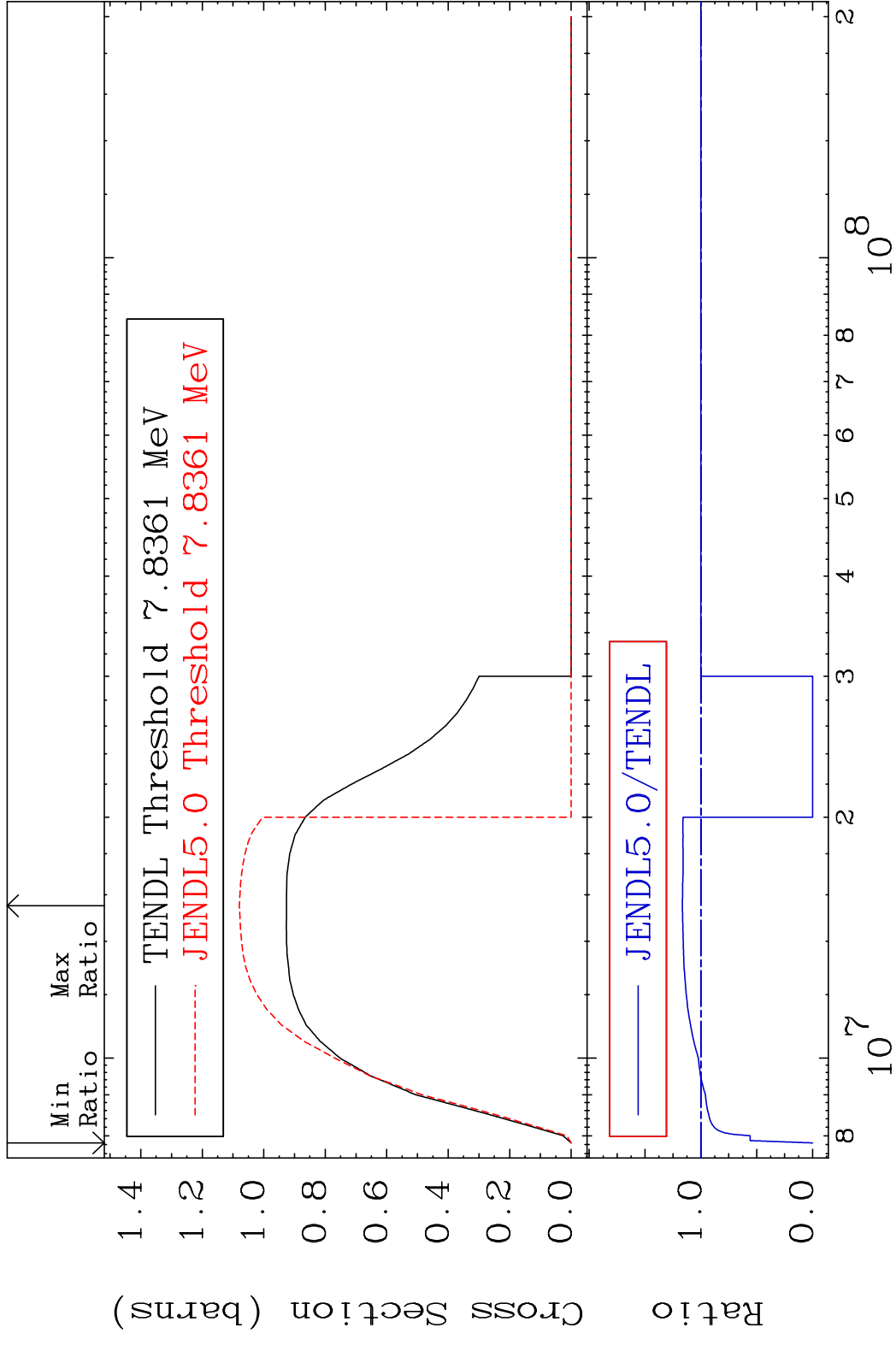
MAT 4123 Dpa disappearance (mt102 -120) 41-Nb-92m  
 Cross Section -100.0 To 1369. %



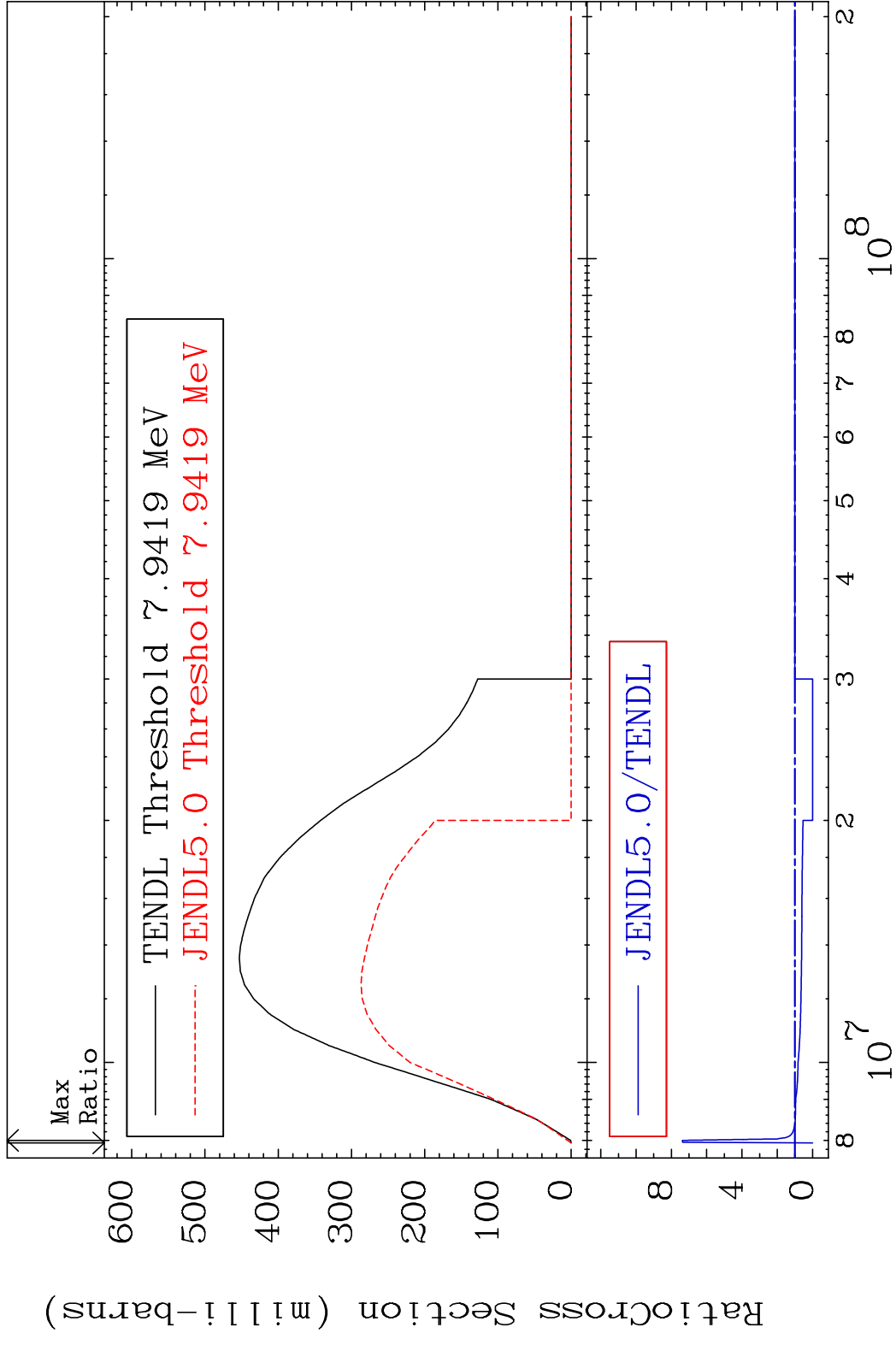
MAT 4123 Inelastic:41-Nb-92g 41-Nb-92m  
 Radionuclide Production Cross Section Ratio 9999. %



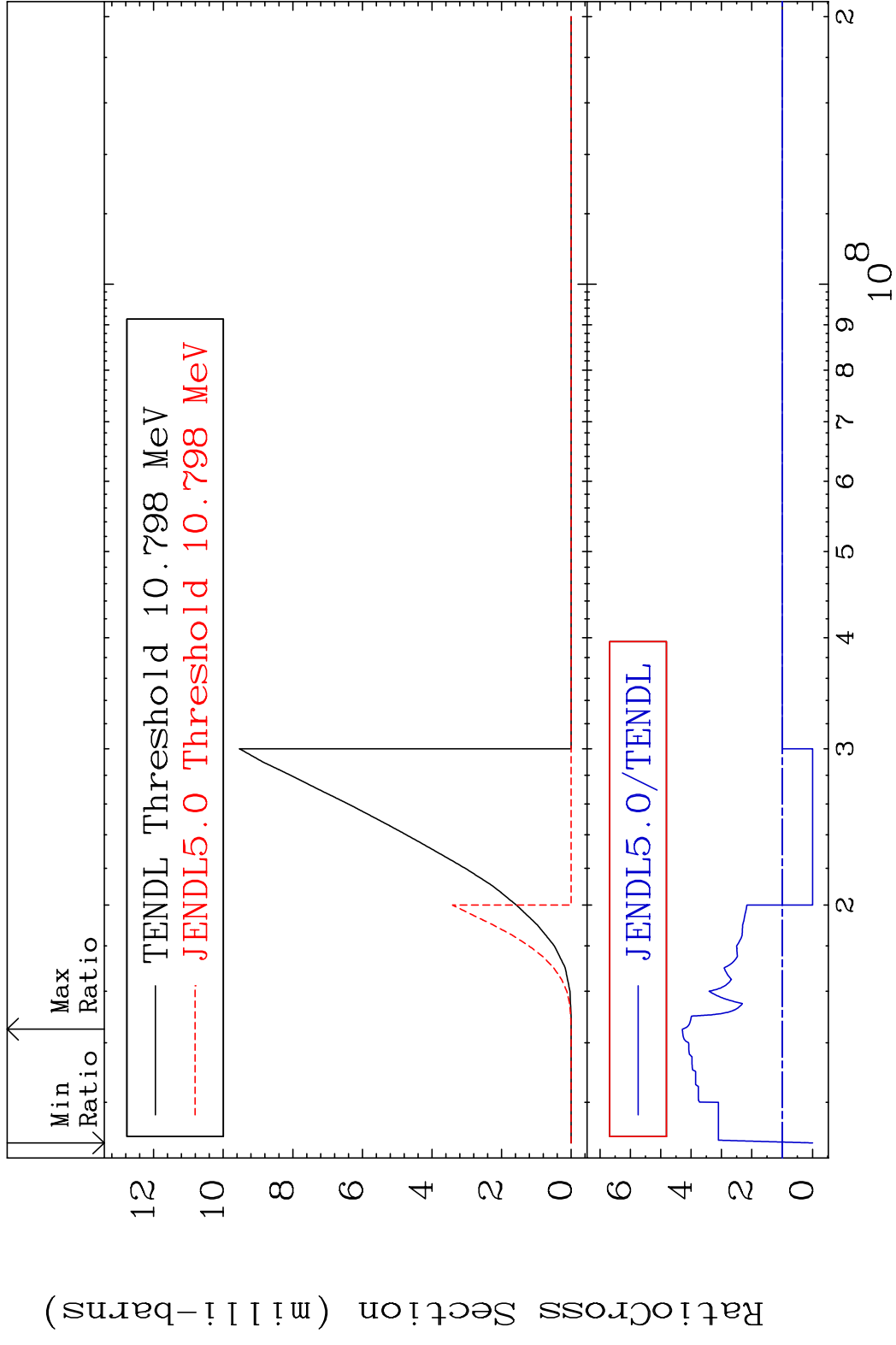
MAT 4123 (n,2n):41-Nb-91g 41-Nb-92m  
 Radionuclide Production Cross Section 18.00 dth 16.58 %



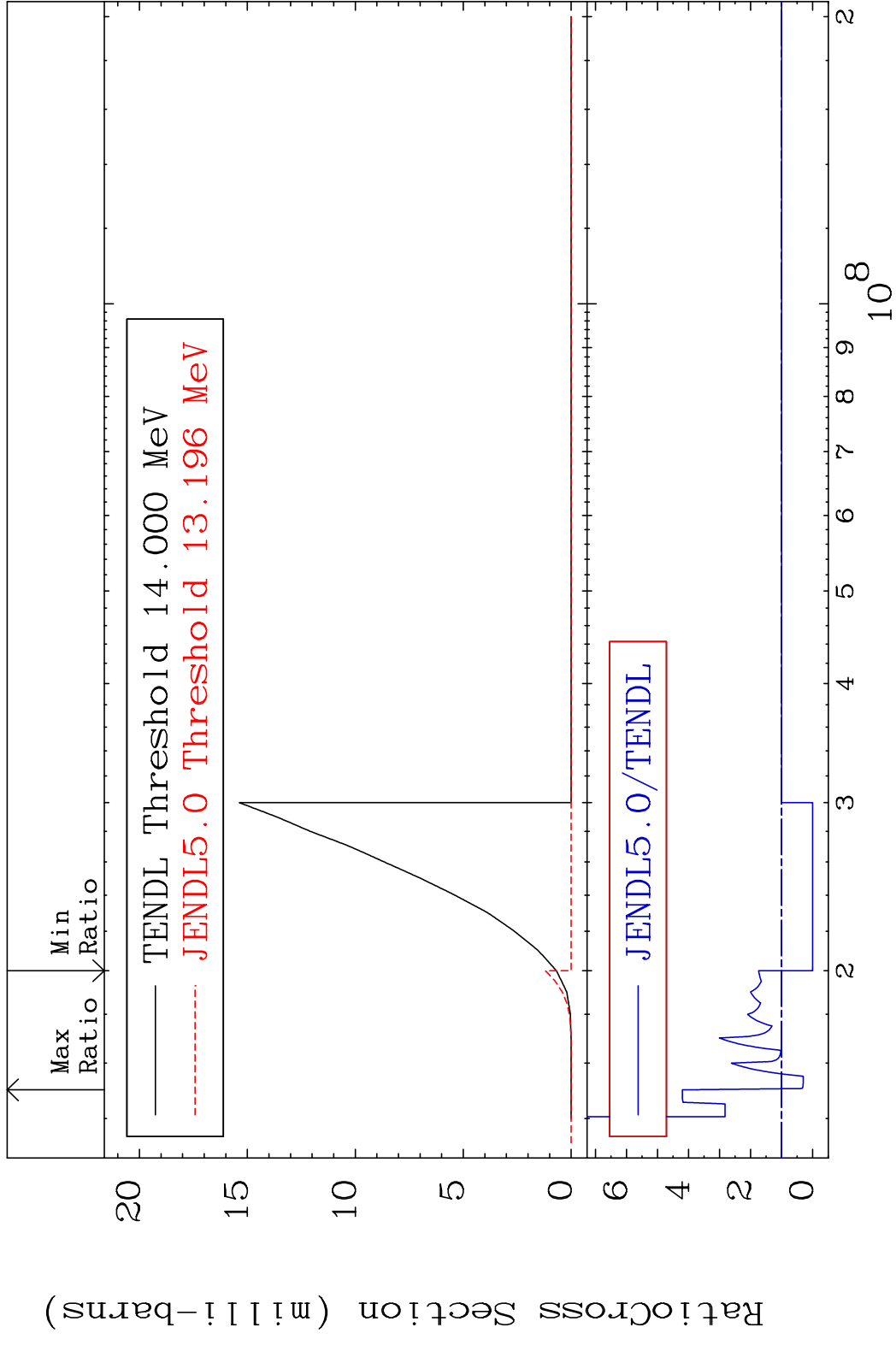
MAT 4123 (n,2n):41-Nb-91m1 41-Nb-92m  
 Radionuclide Production Cross Section Ratio 637.8 %



MAT 4123 (n, n') d:40-Zr-90g 41-Nb-92m  
 Radionuclide Production Cross Section 100.0 dth 328.8 %

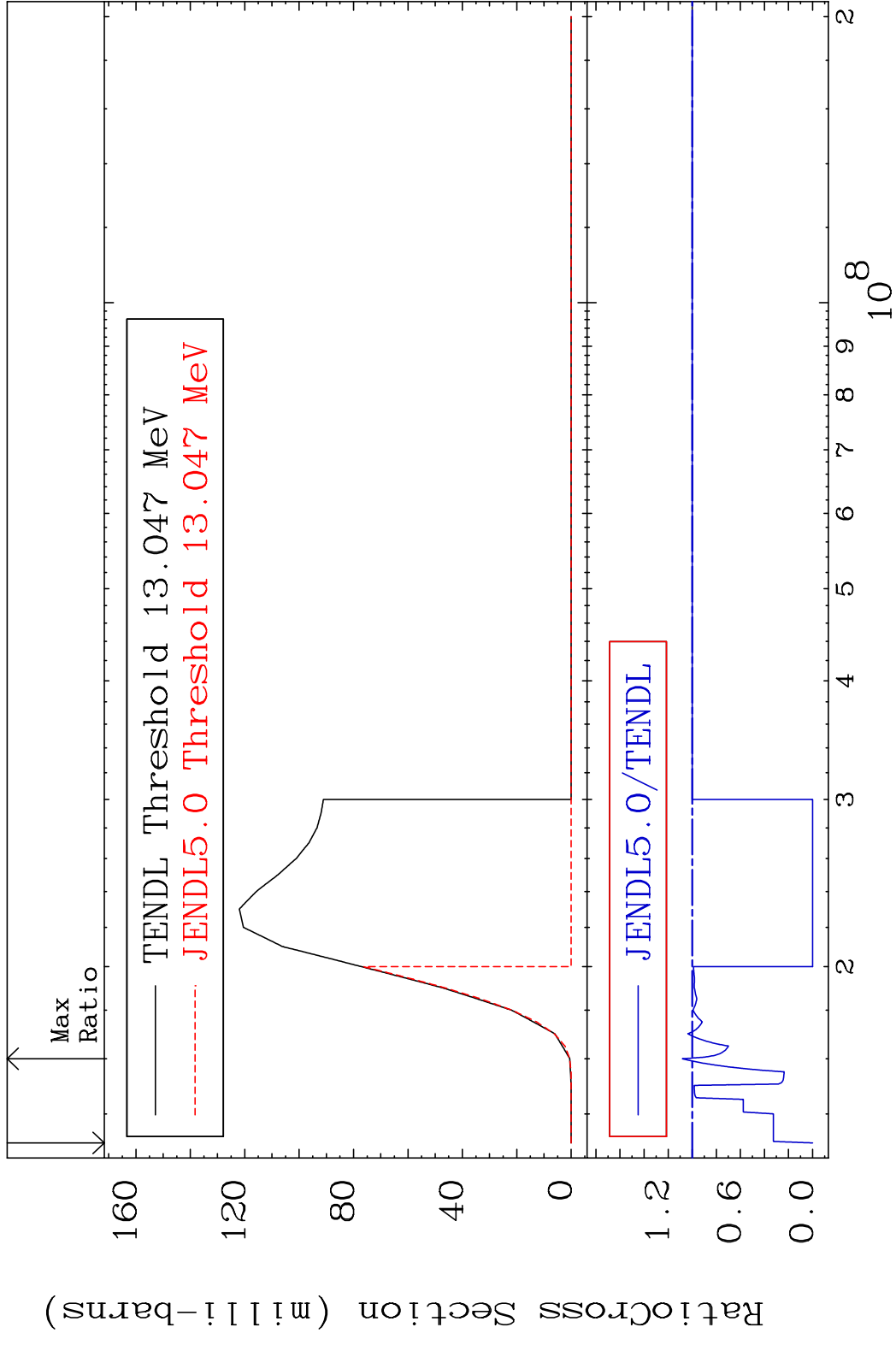


MAT 4123 (n, n') d:40-Zr-90m3 41-Nb-92m  
 Radionuclide Production Cross Section 180.0 dth 320.0 %

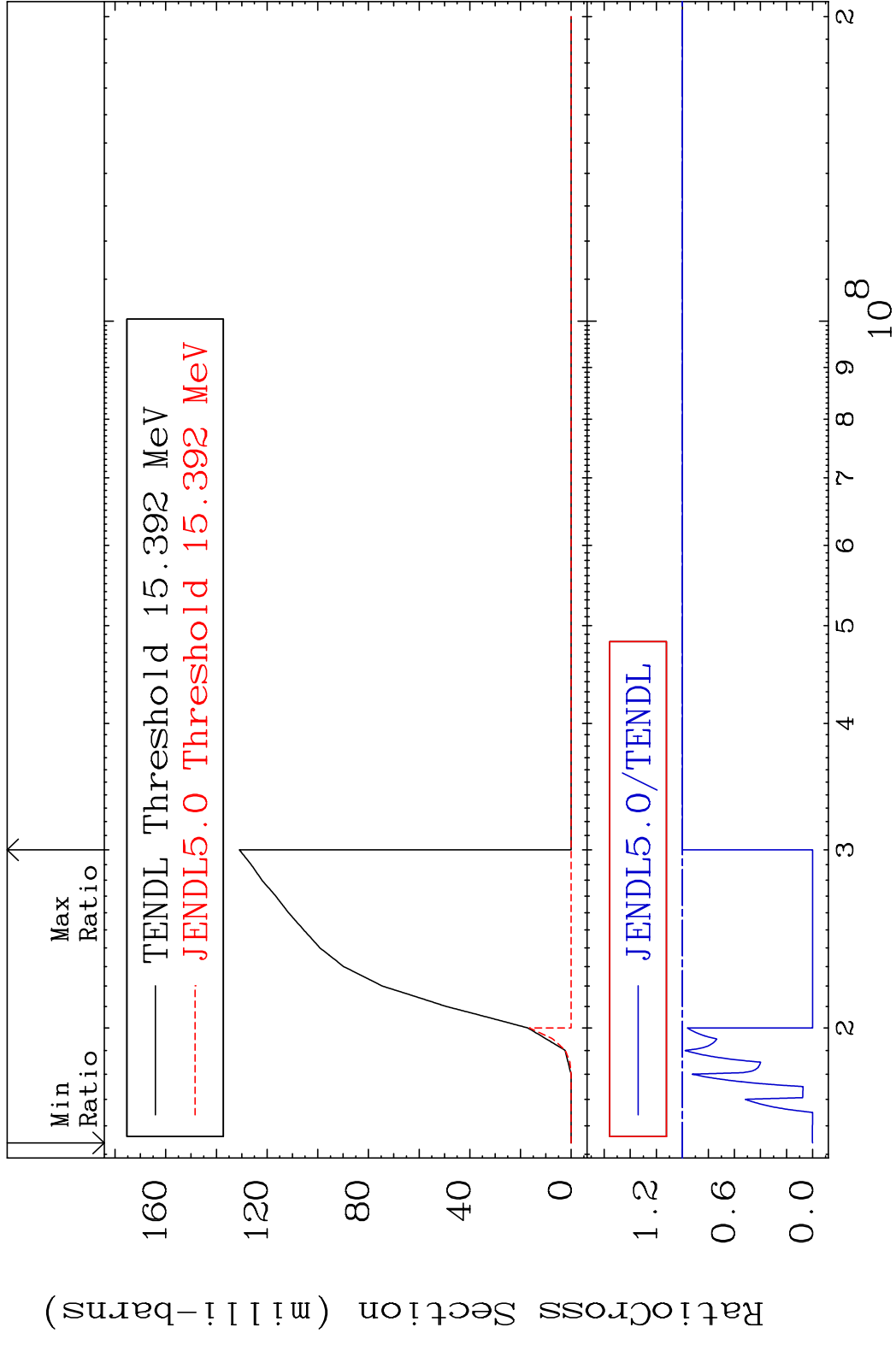




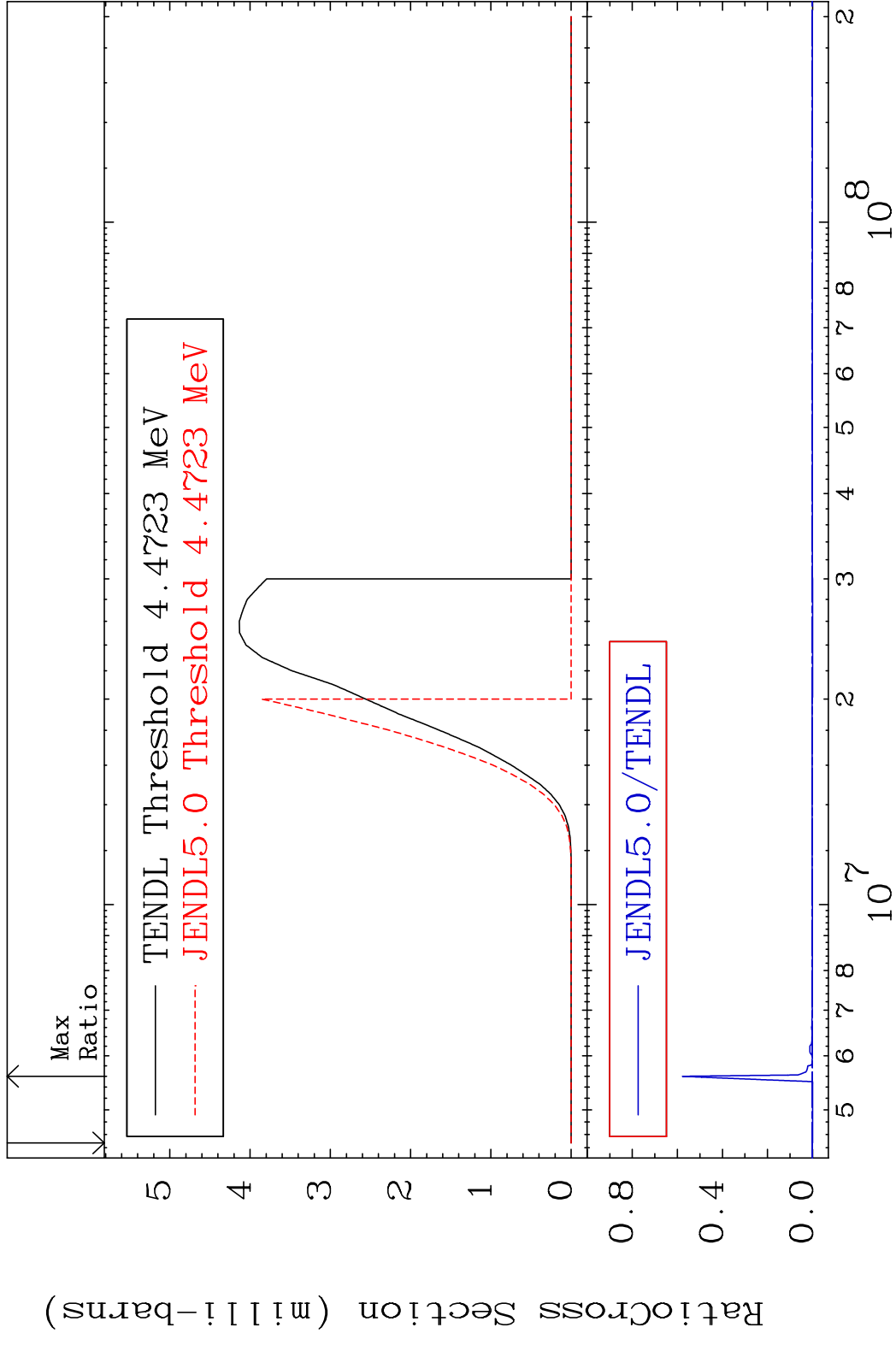
MAT 4123 (n,2n) p:40-Zr-90g 41-Nb-92m  
 Radionuclide Production Cross Section Ratio 8.186 %



MAT 4123 (n,2n) p:40-Zr-90m3 41-Nb-92m  
 Radionuclide Production Cross Section 180.0 mb 0.000 %



MAT 4123 (n, t): 40-Zr-90g 41-Nb-92m  
 Radionuclide Production Cross Section Ratio 9999. %

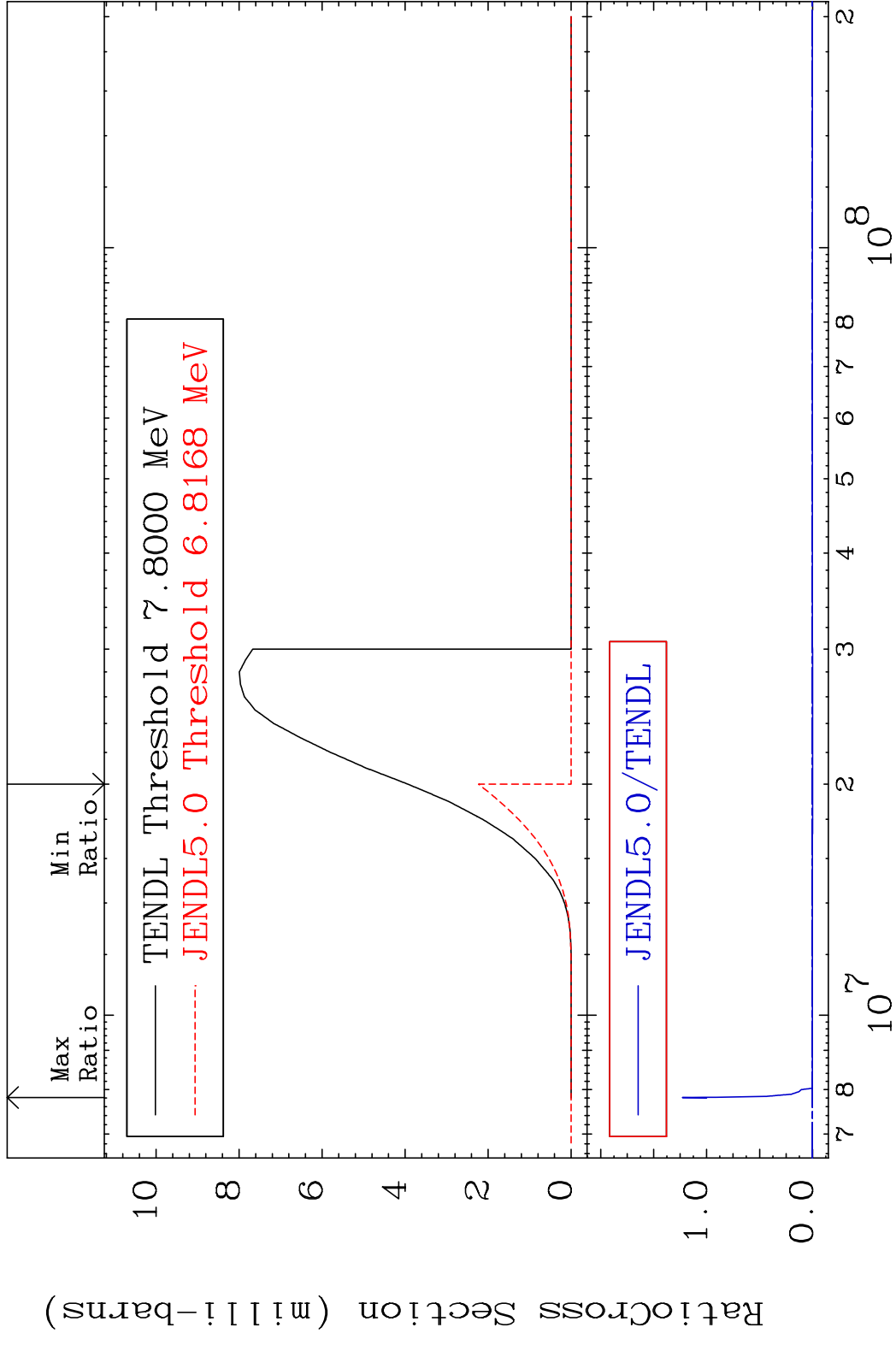


MAT 4123

(n, t) : 40-Zr-90m3

41-Nb-92m

Radionuclide Production Cross Section Ratio

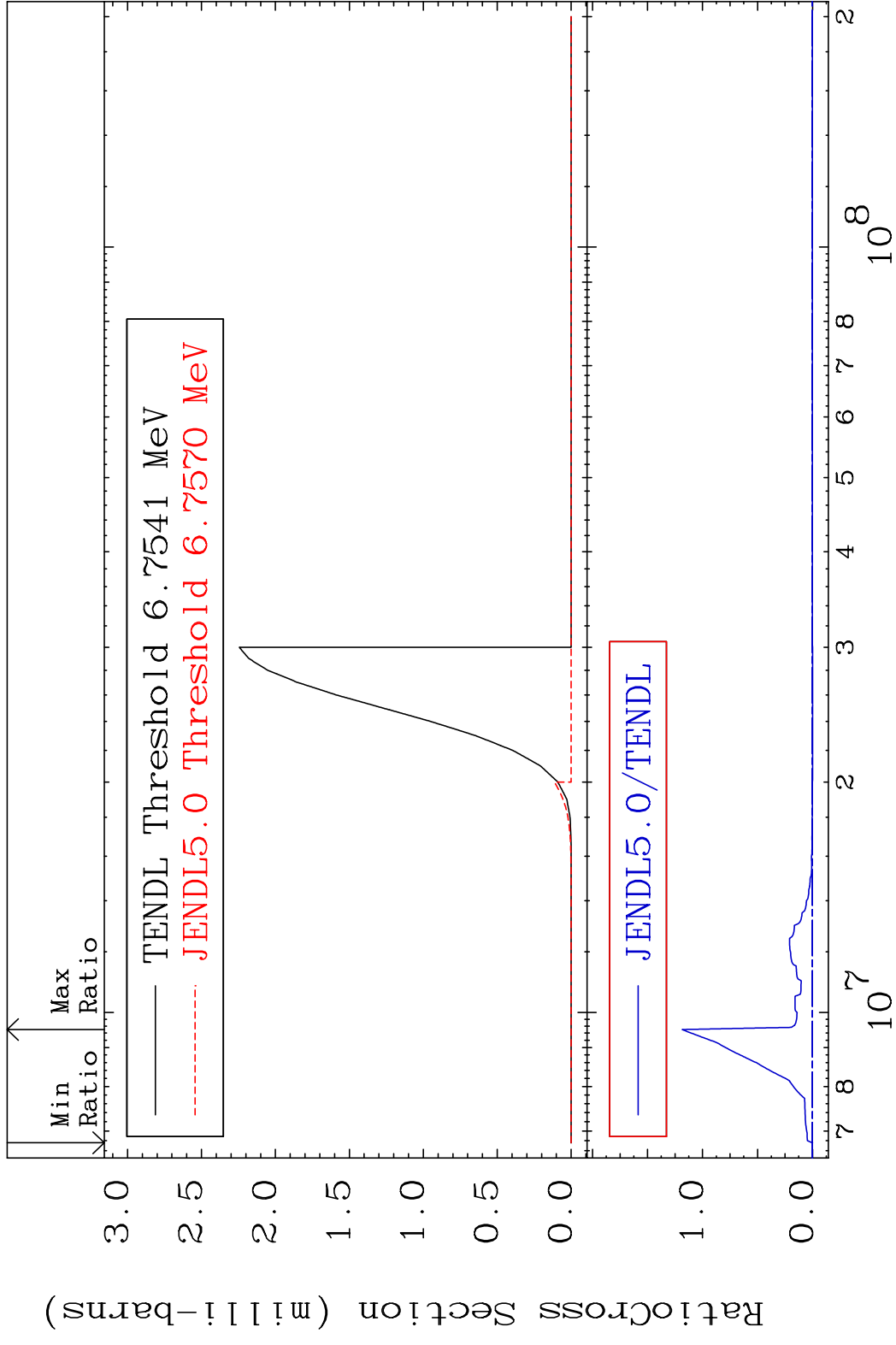


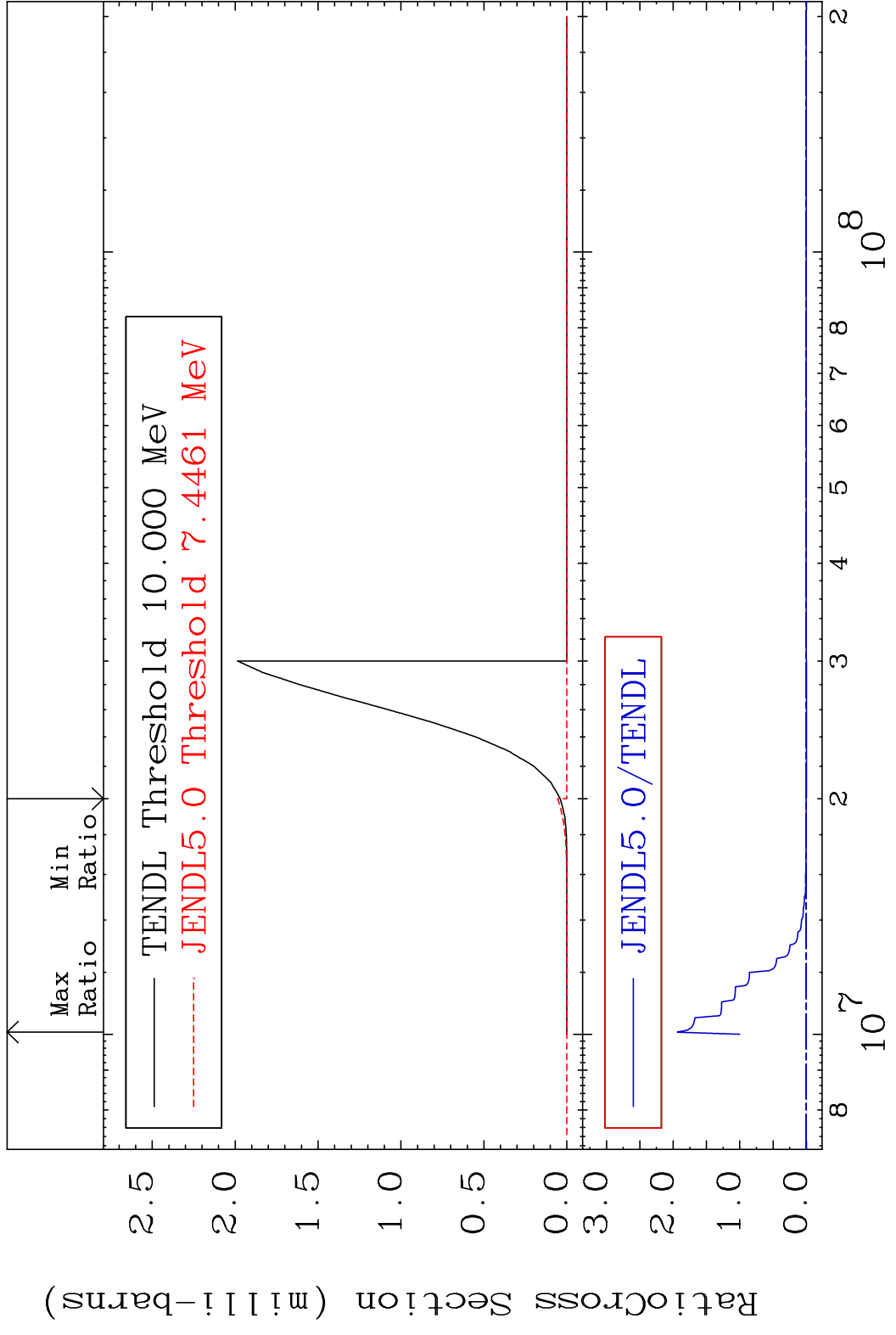
75

Incident Energy (eV)

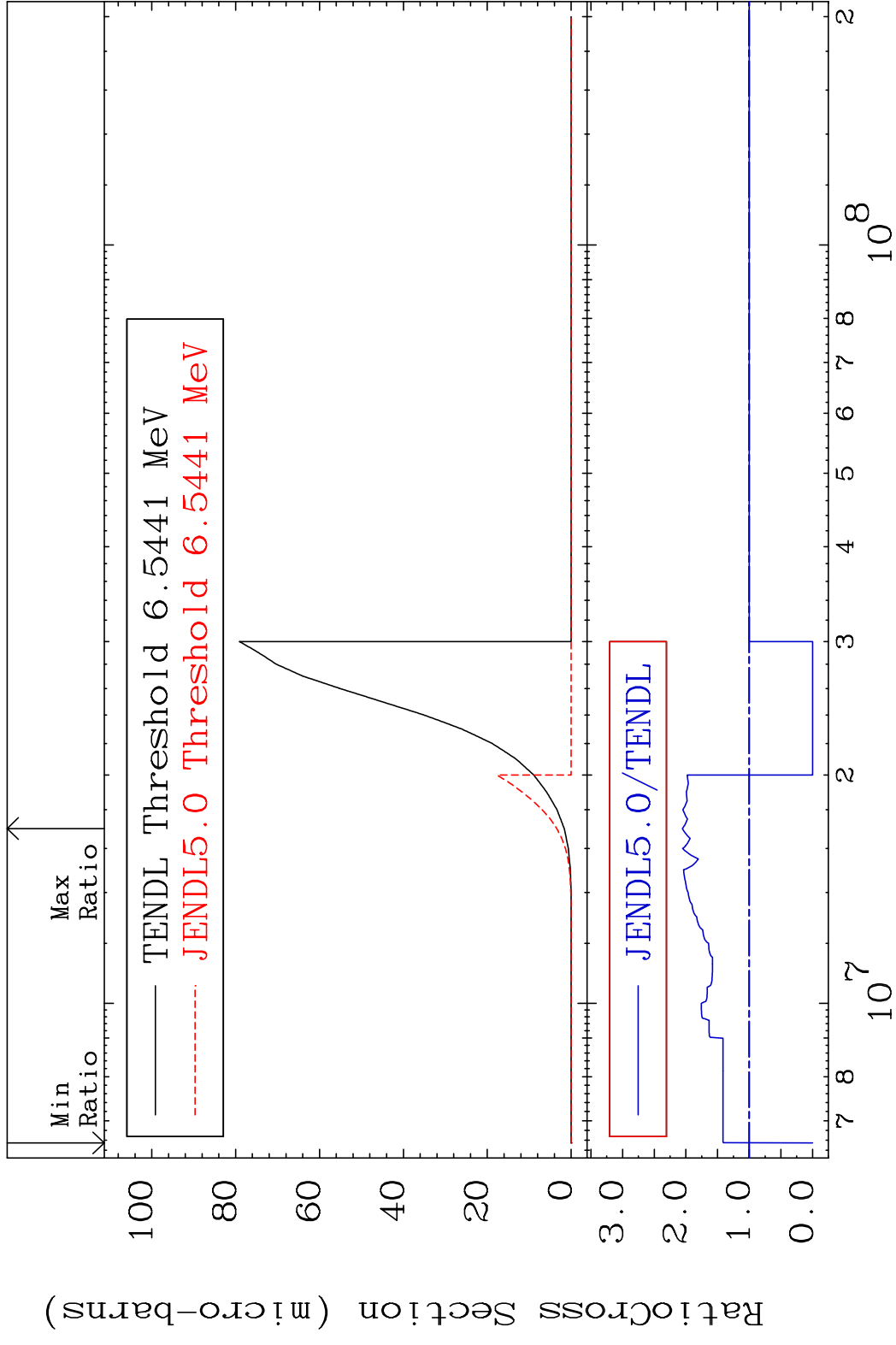
41-Nb-92m

MAT 4123 (n, He-3):39-Y -90g 41-Nb-92m  
 Radionuclide Production Cross Section 100.00 dth 9999. %

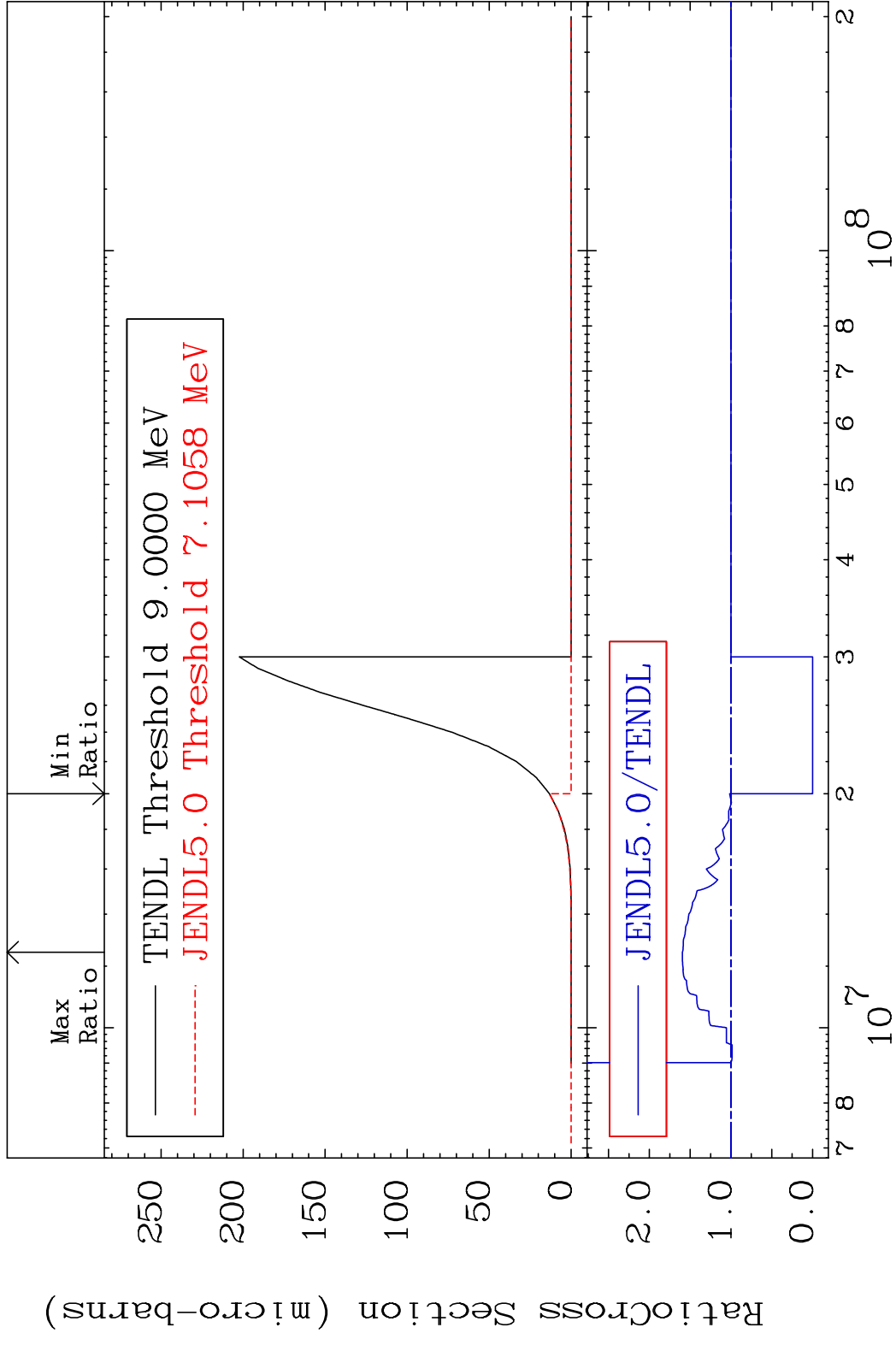




MAT 4123 (n,2p):39-Y -91g 41-Nb-92m  
 Radionuclide Production Cross Section 100.0% 105.6 %



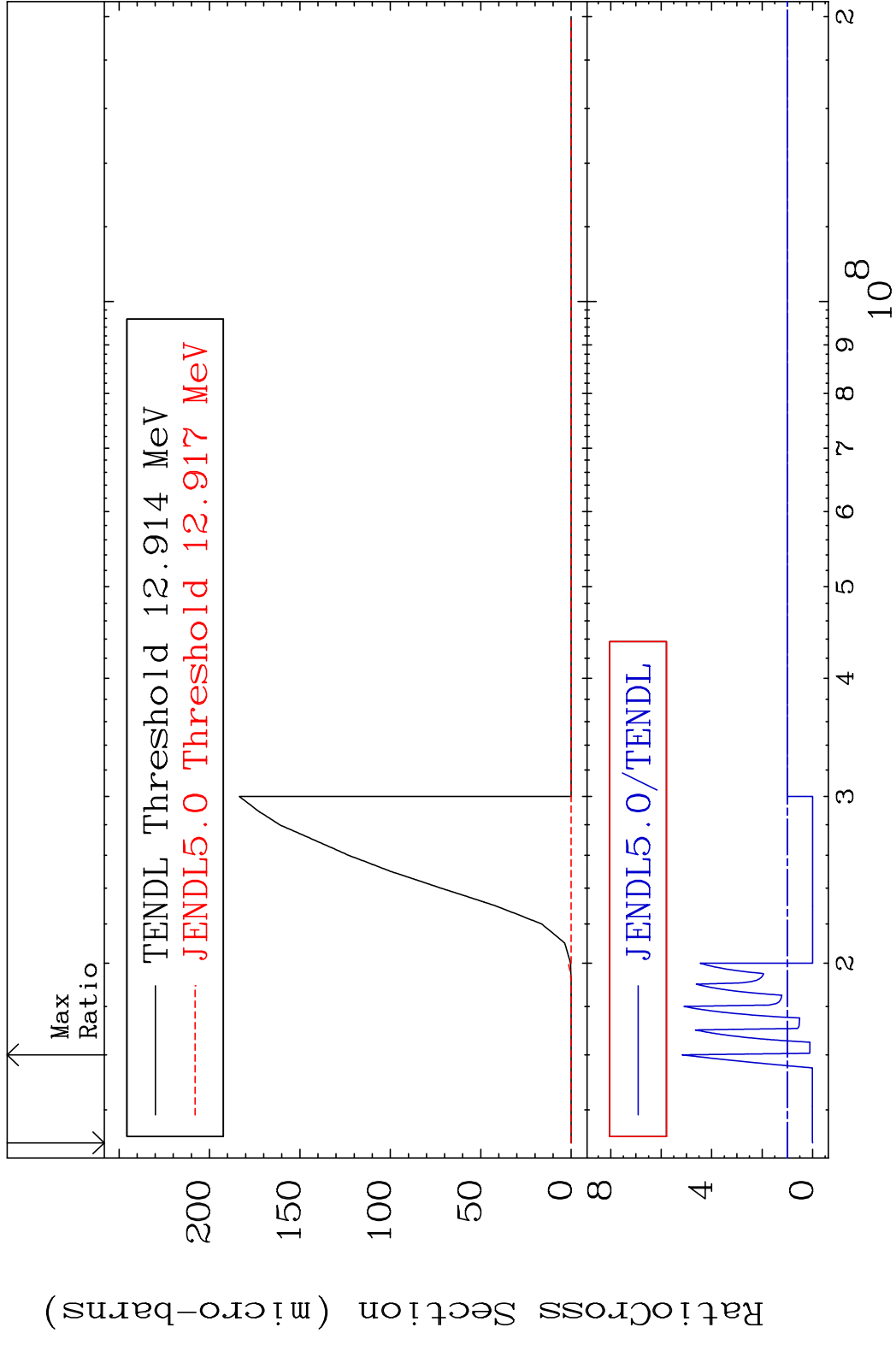
MAT 4123 (n,2p):39-Y -91m1 41-Nb-92m  
 Radionuclide Production Cross Section 180.01 dth 59.60 %



79 Incident Energy (eV) 41-Nb-92m



MAT 4123 (n, p) t:39-Y -89g 41-Nb-92m  
 Radionuclide Production Cross Section 180.0 dth 416.1 %



80 Incident Energy (eV) 41-Nb-92m

