

Program Complot  
(Version 2021-1)

by

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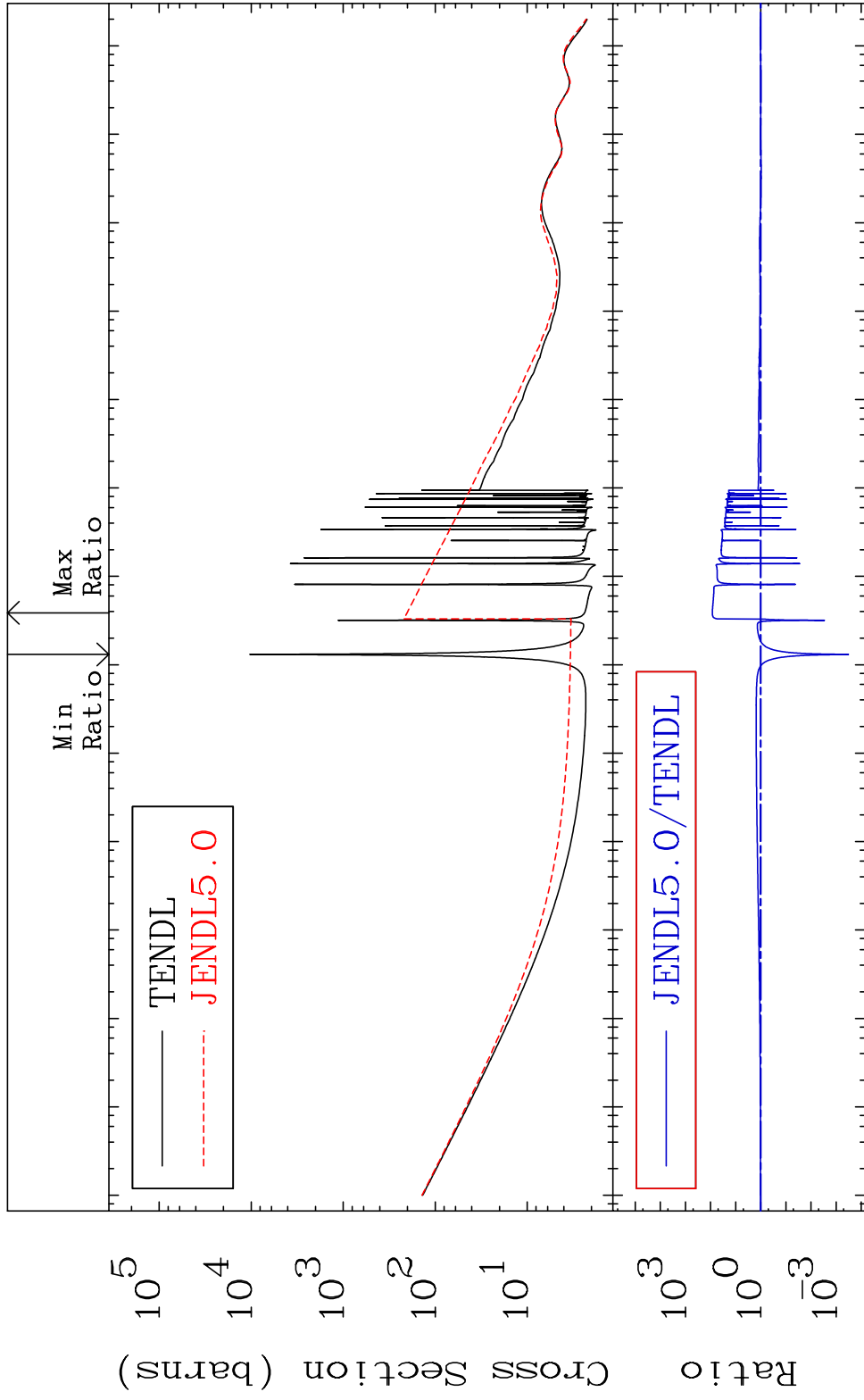
Press Mouse Button to Start

MAT 5731

Total

57-La-140

Cross Section -99.97 To 8386. %



1

Incident Energy (eV)

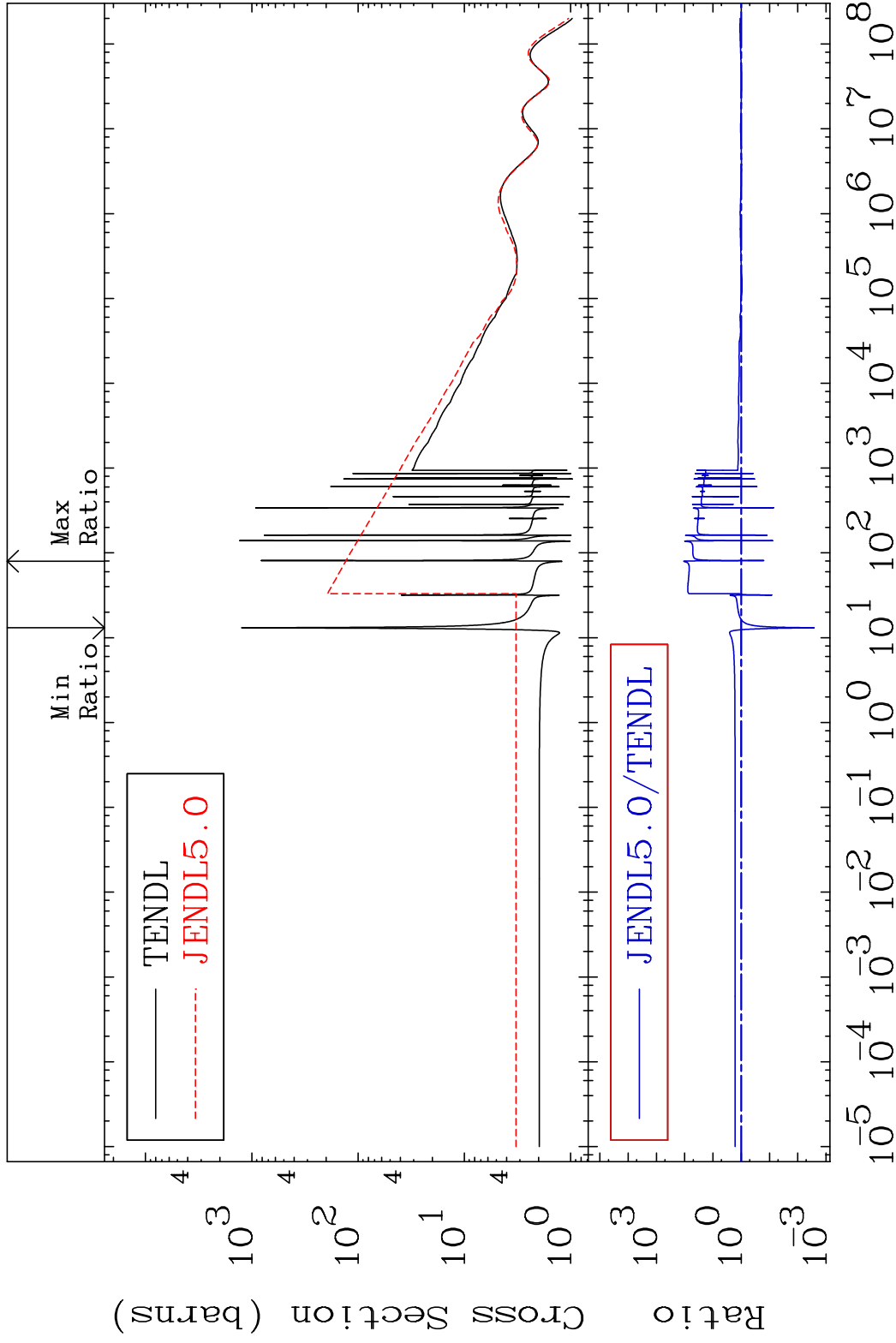
57-La-140

MAT 5731

Elastic

57-La-140

Cross Section -99.74 To 9999. %

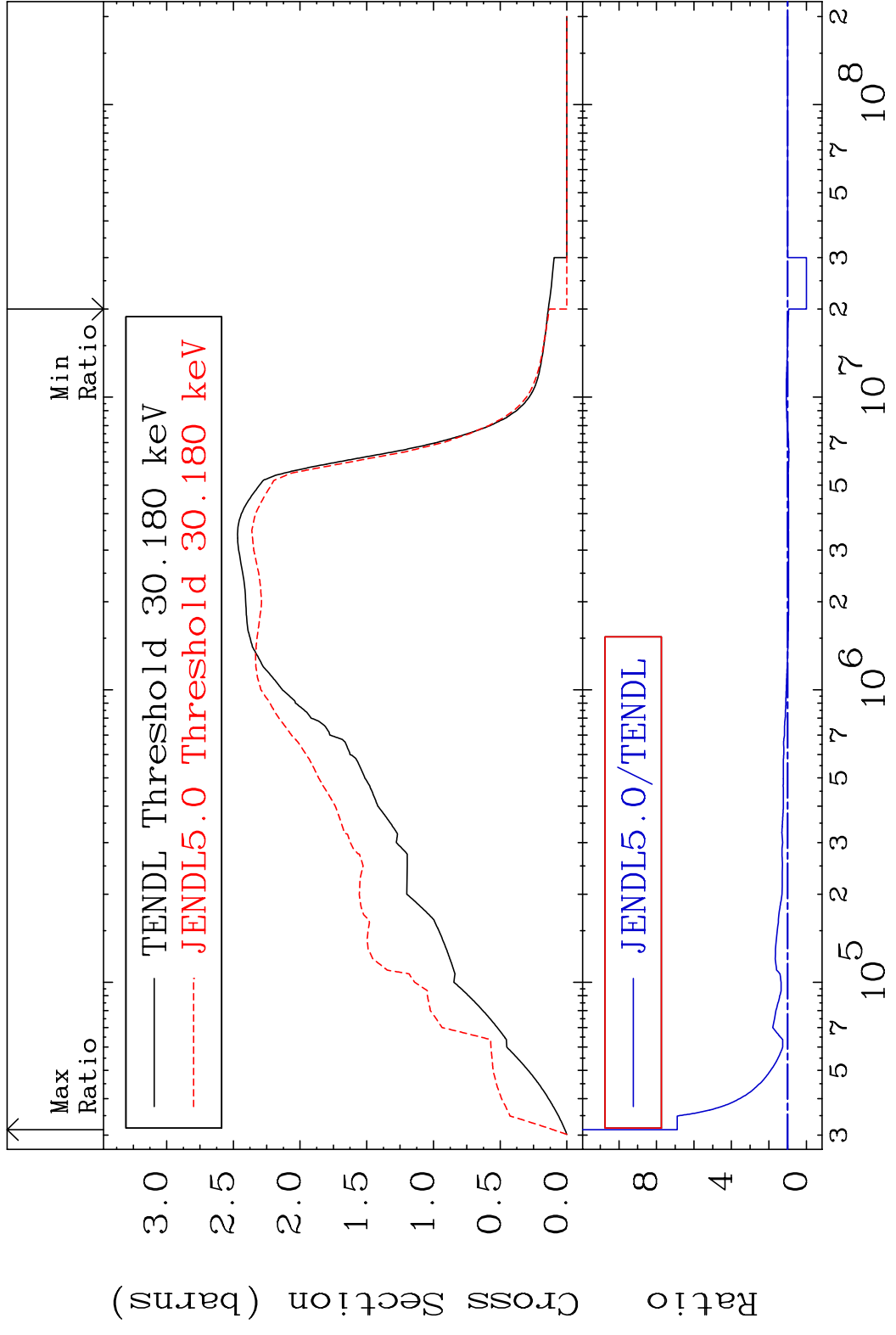


2

Incident Energy (eV)

57-La-140

MAT 5731 Inelastic 57-La-140  
 Cross Section -100.0 To 589.3 %



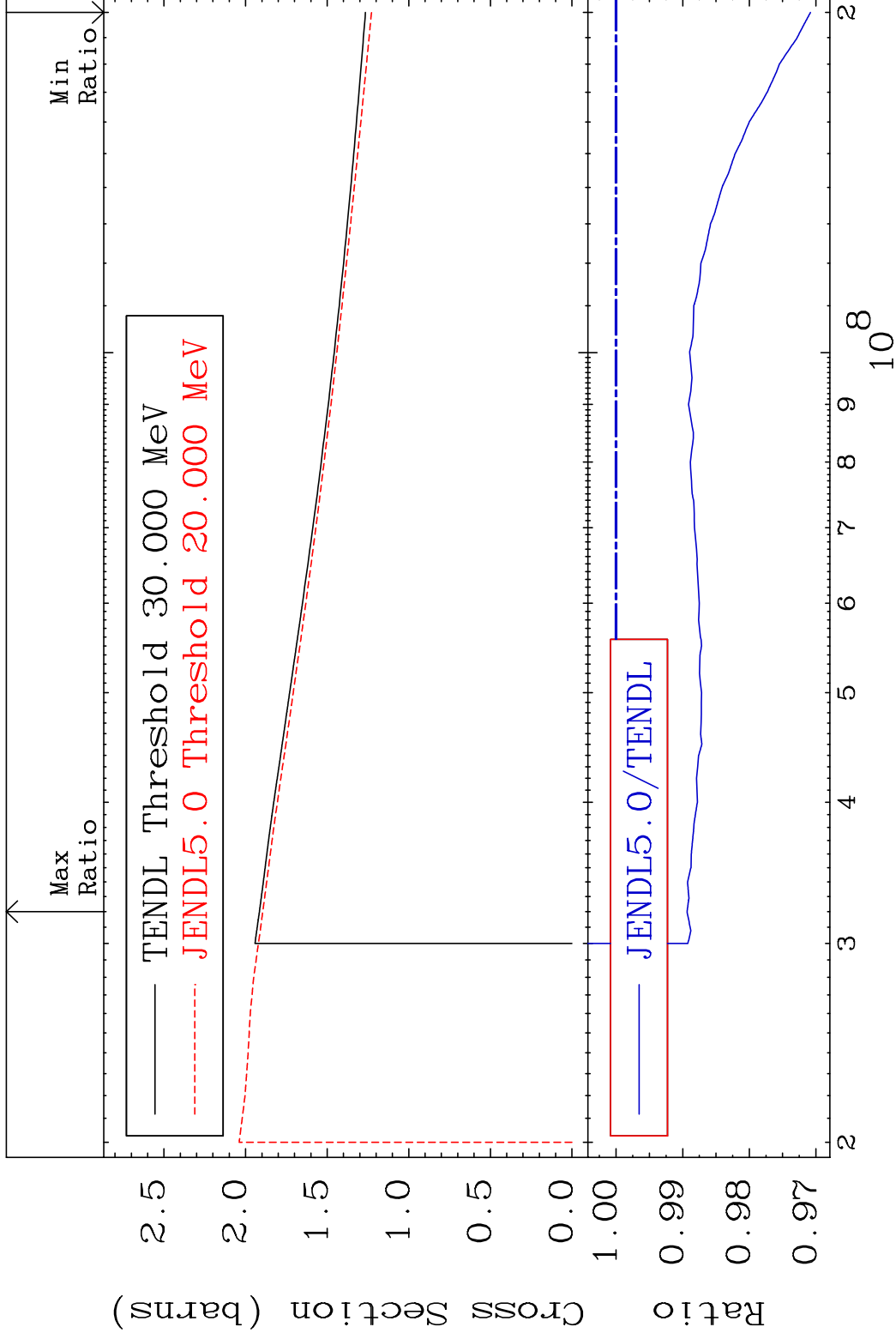
3 3 Incident Energy (eV) 57-La-140

MAT 5731

(n, remainder)

57-La-140

Cross Section -2.918 To -1.065%



4

Incident Energy (eV)

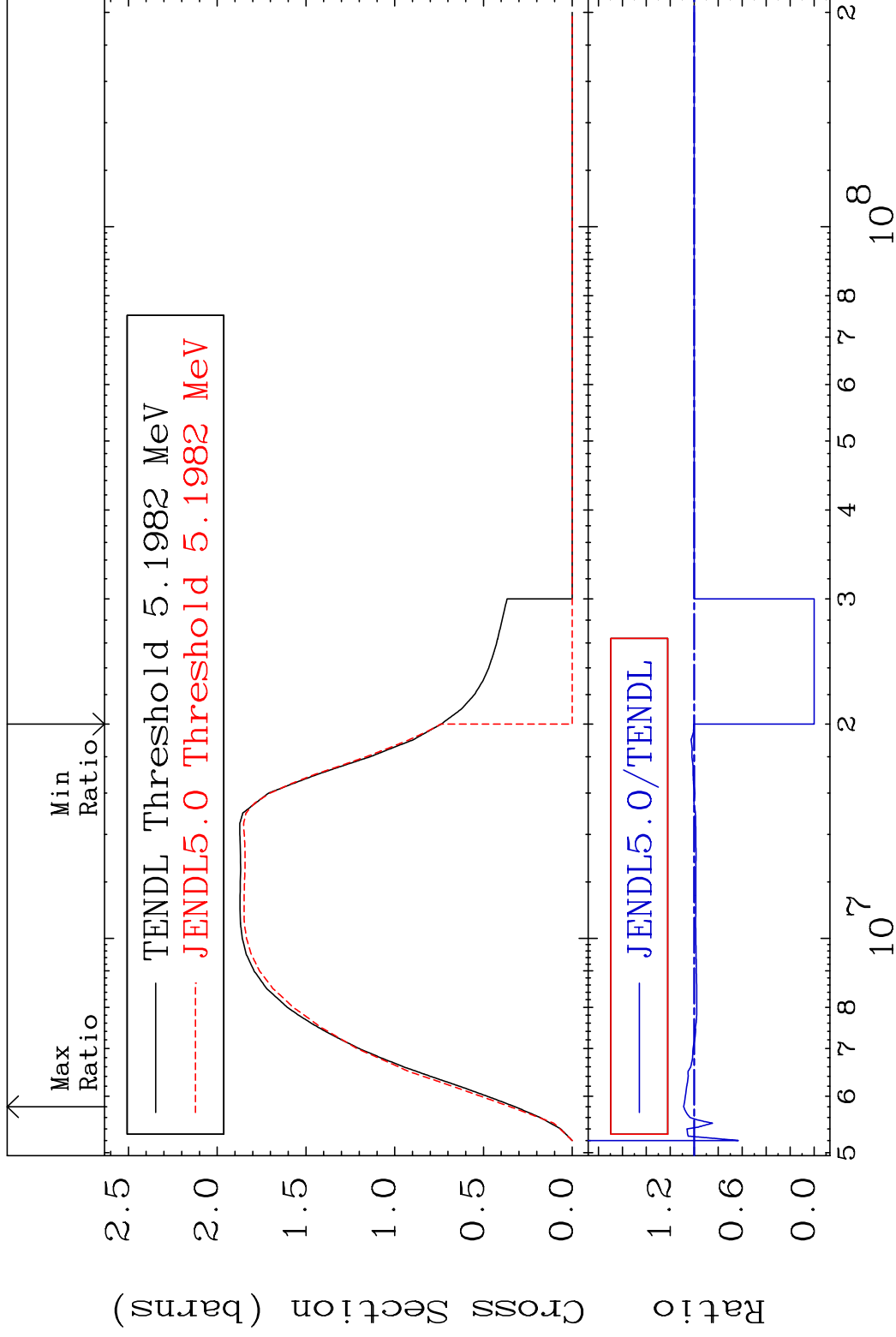
57-La-140

MAT 5731

(n,2n)

57-La-140

Cross Section -100.0 To 8.845 %



5

Incident Energy (eV)

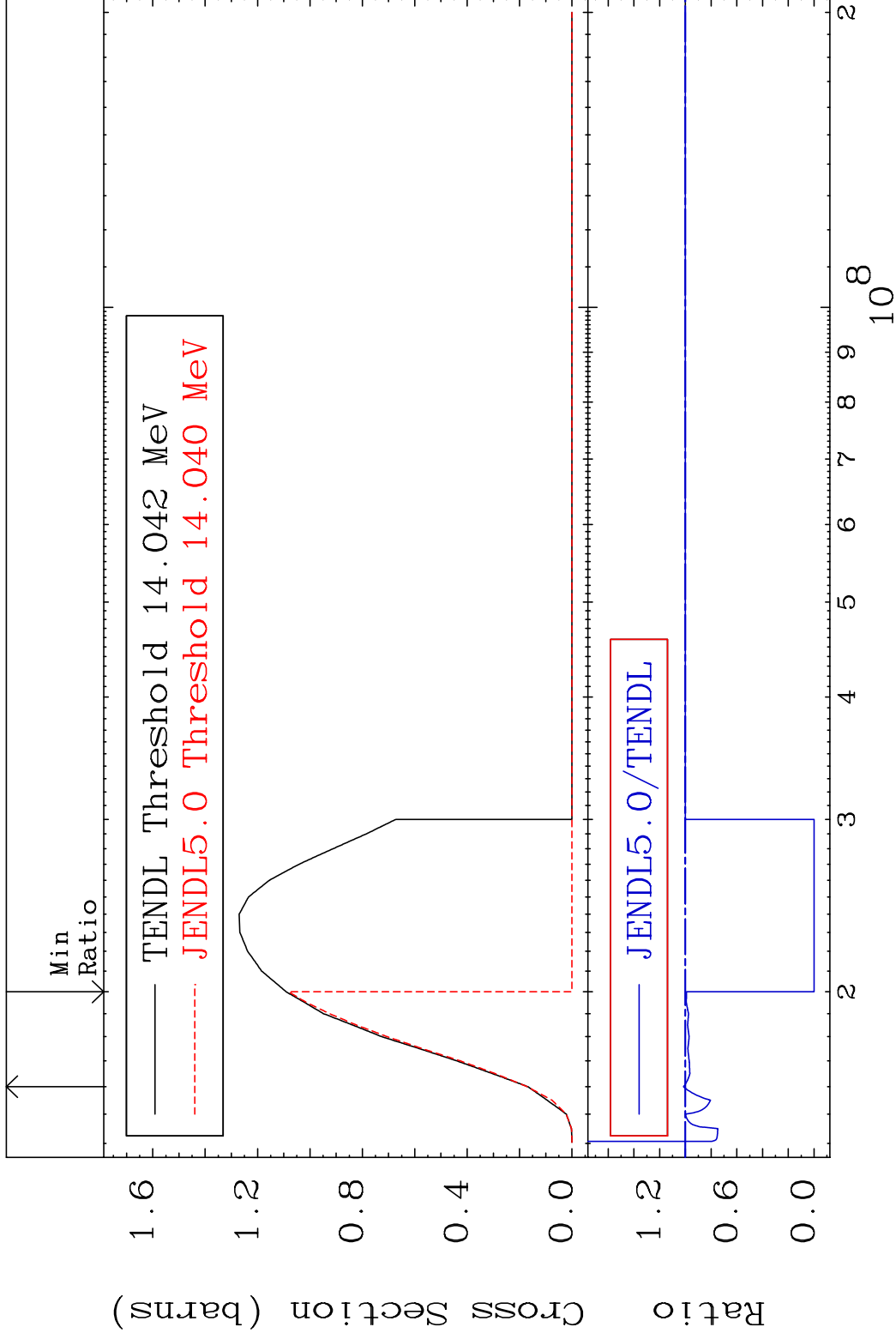
57-La-140

MAT 5731

(n,3n)

57-La-140

Cross Section -100.0 To 1.508 %



6

Incident Energy (eV)

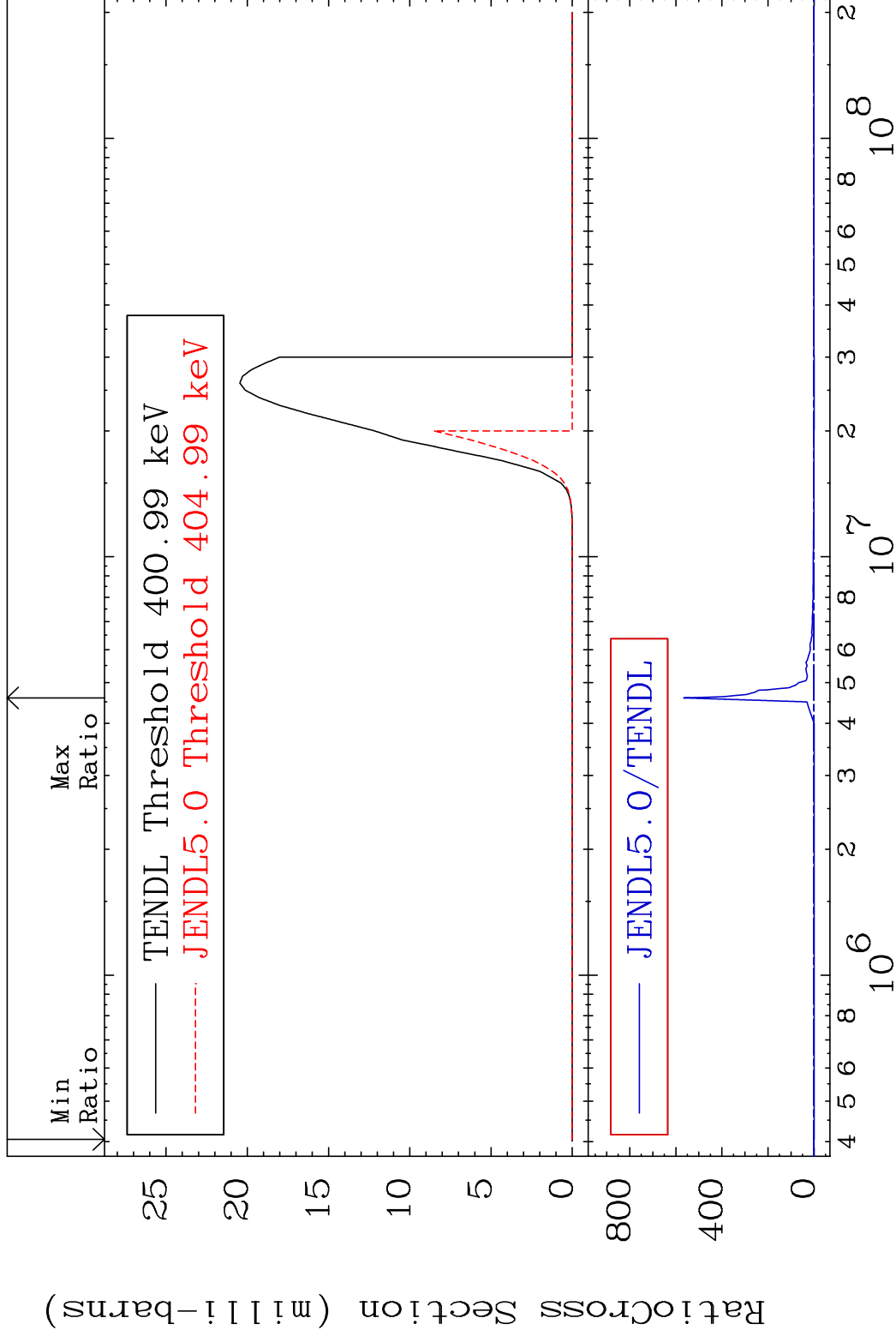
57-La-140

MAT 5731

(n, n')  $\alpha$

57-La-140

Cross Section -100.0 To 9999. %



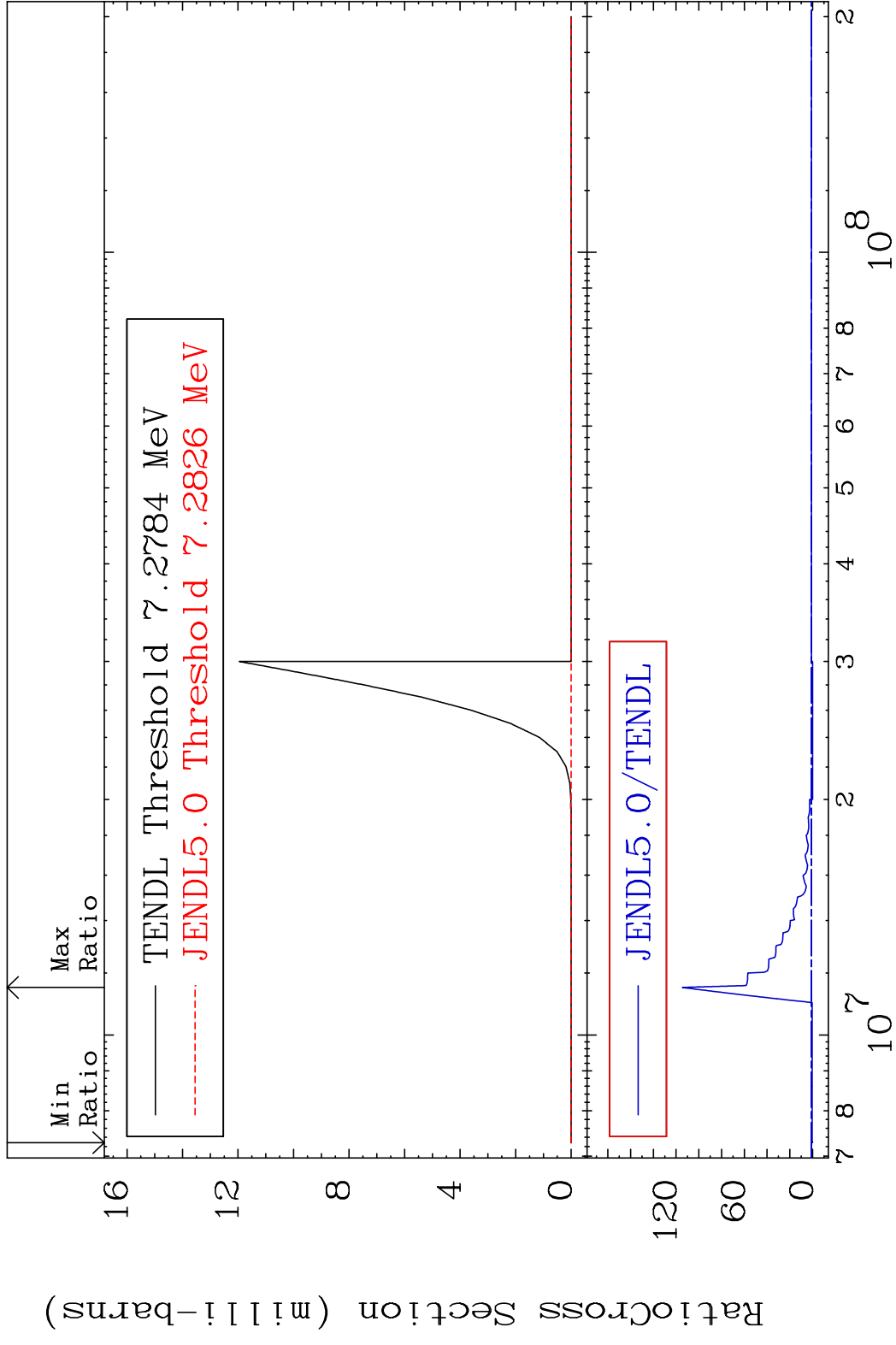
7

Incident Energy (eV)

57-La-140



MAT 5731 (n,2n)  $\alpha$  57-La-140  
 Cross Section -100.0 To 9999. %



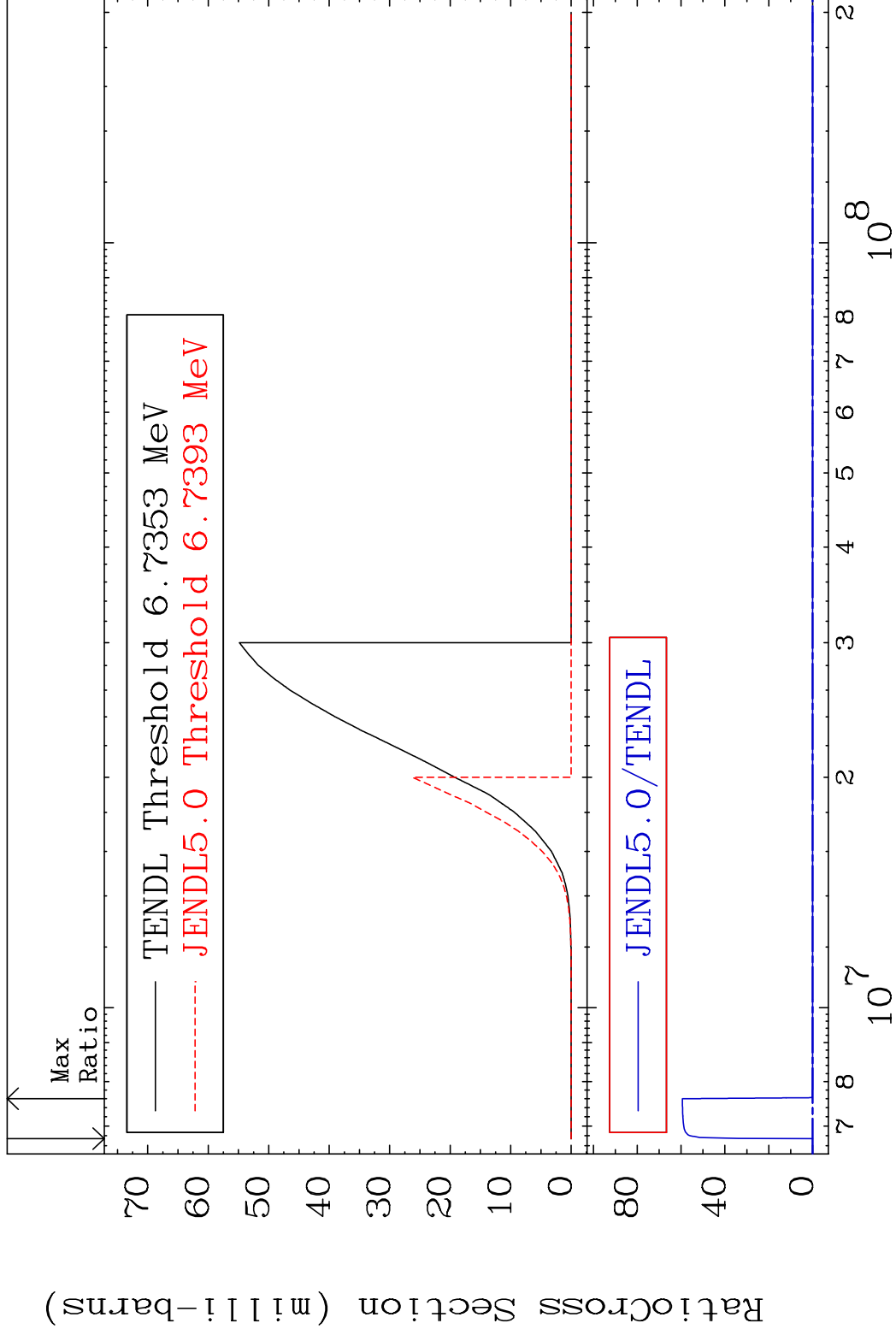
8 120 60 0 7 8 10<sup>7</sup> 2 10<sup>8</sup> 2 57-La-140

MAT 5731

(n, n') p

57-La-140

Cross Section -100.0 To 9999. %



9

Incident Energy (eV)

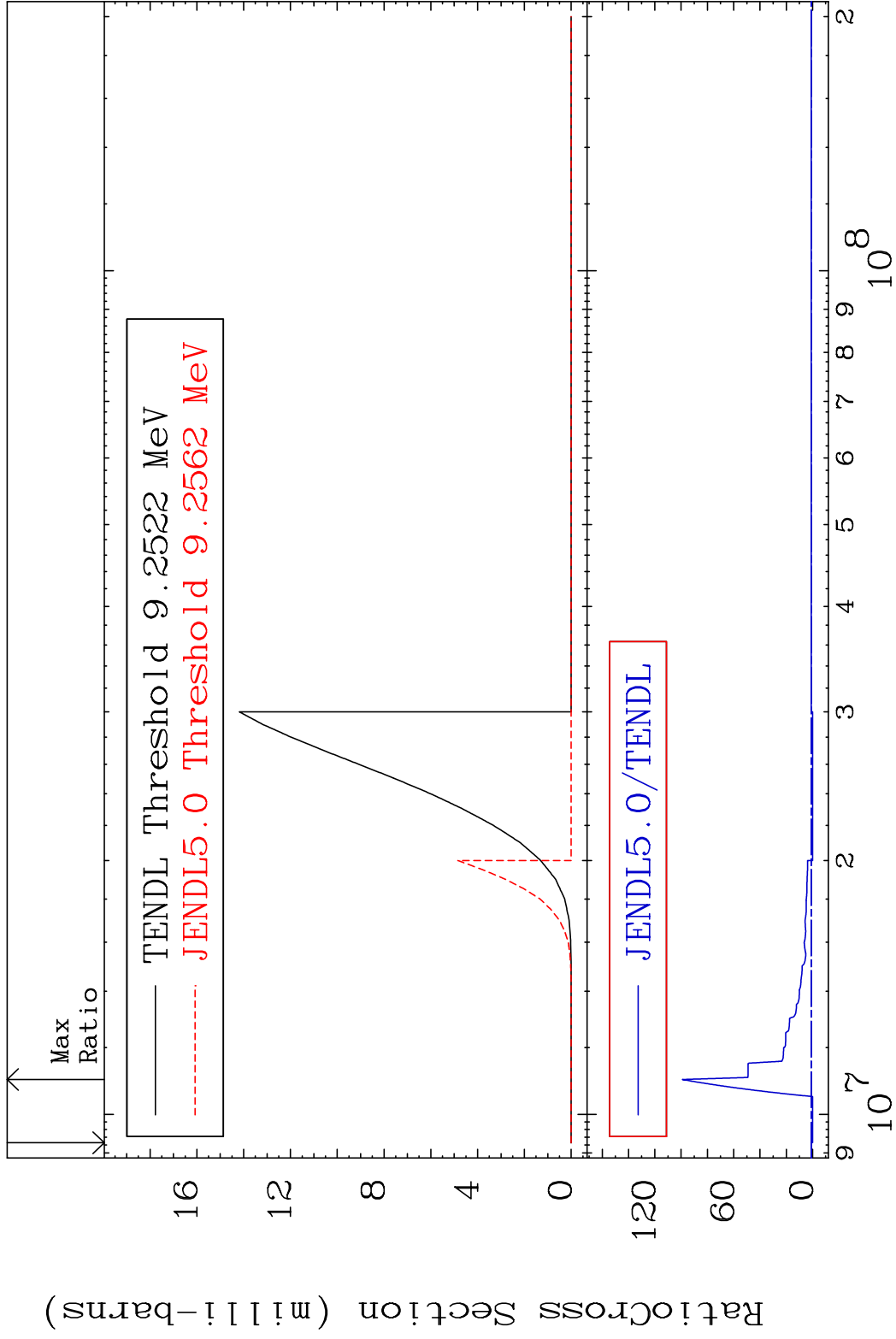
57-La-140

MAT 5731

(n, n') d

57-La-140

Cross Section -100.0 To 9806. %

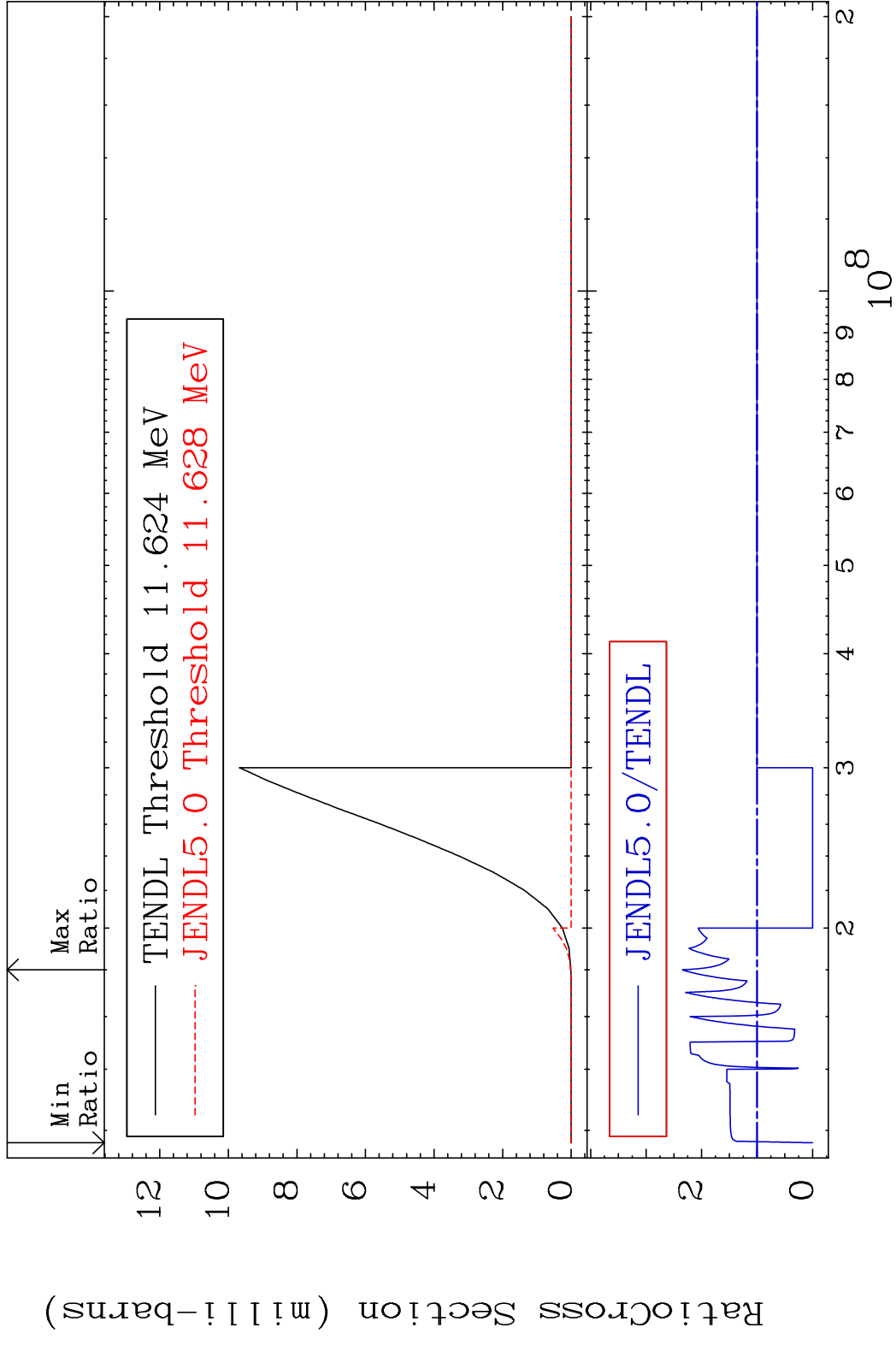


10

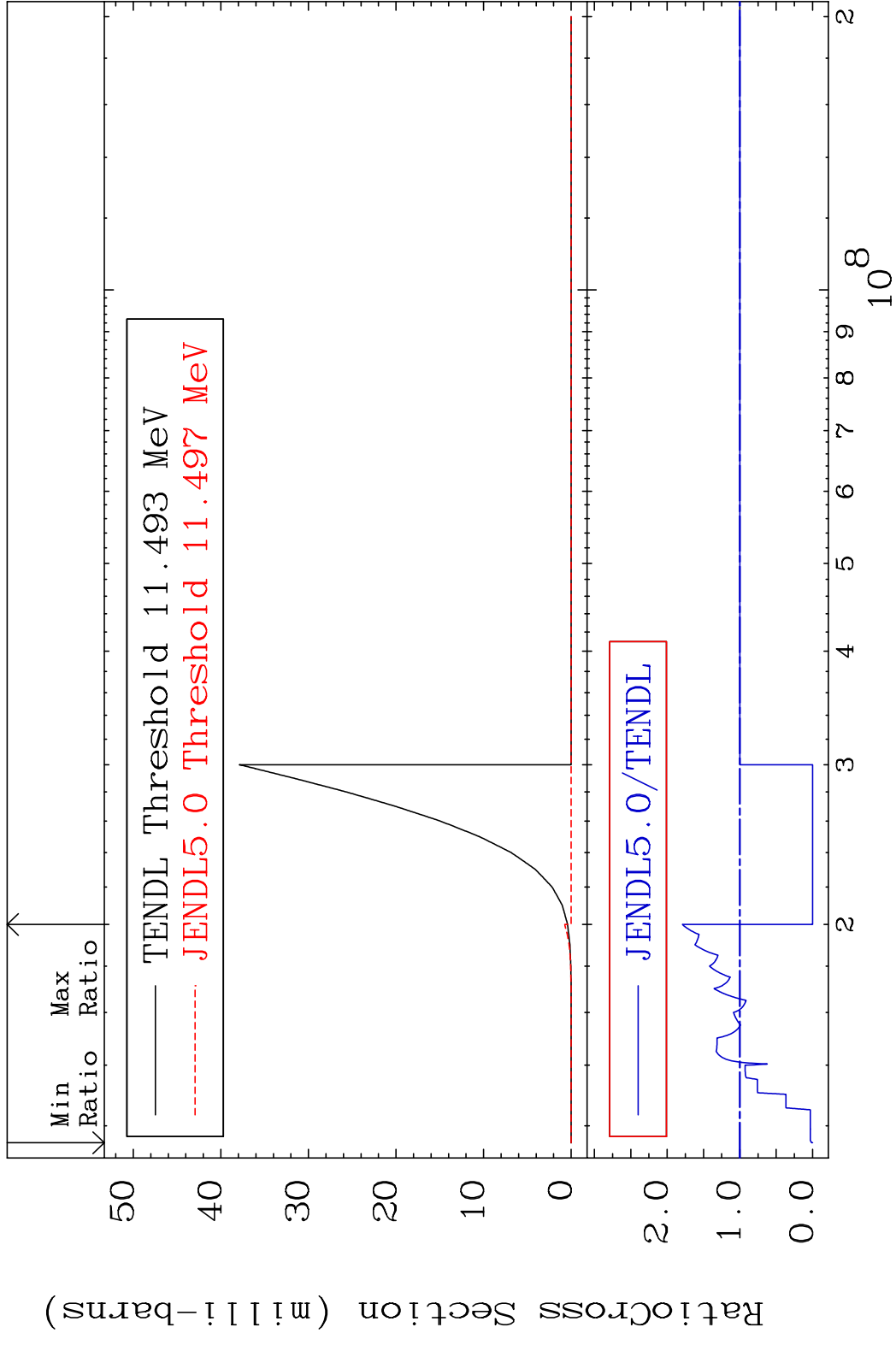
Incident Energy (eV)

57-La-140

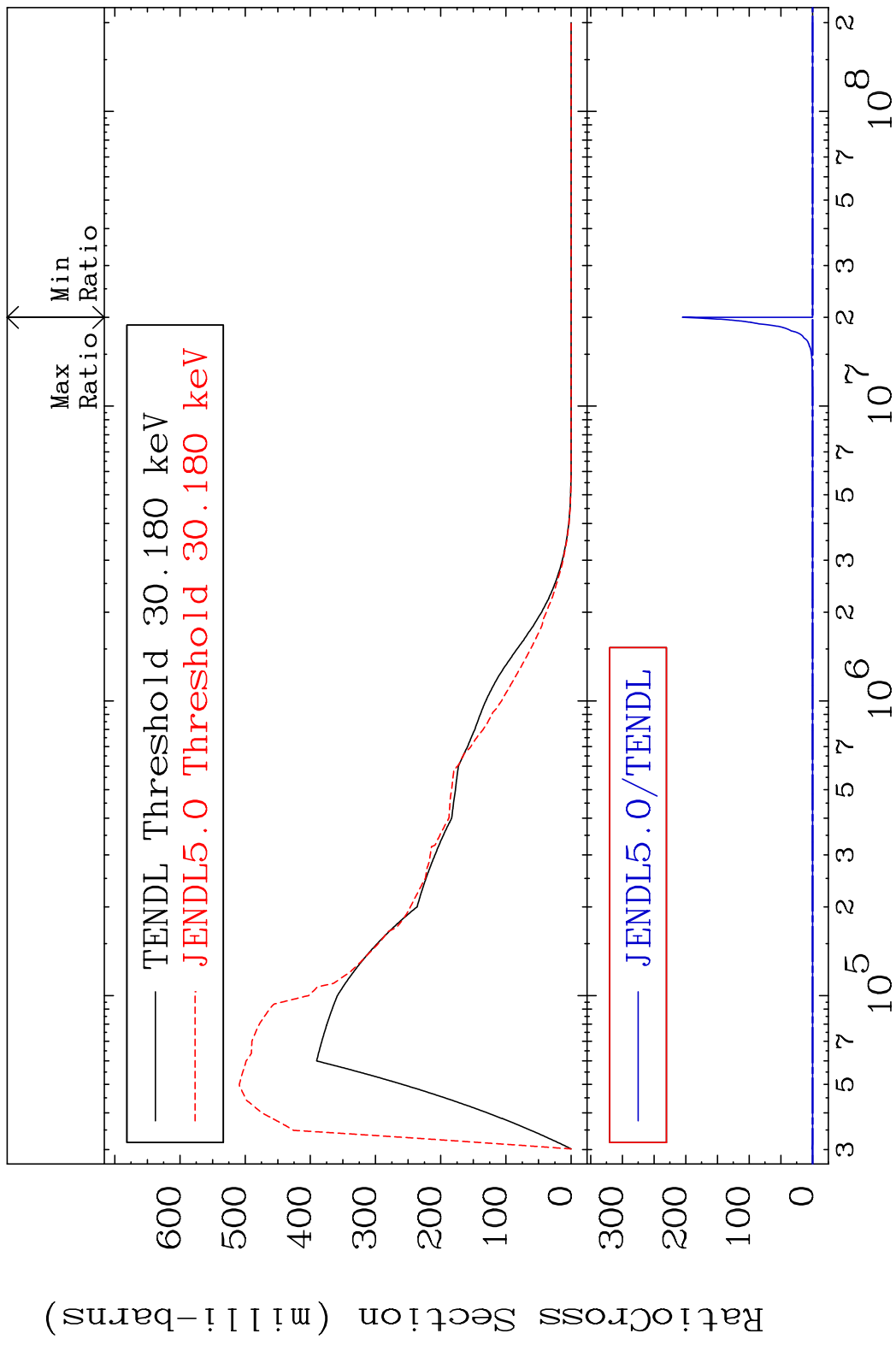
MAT 5731 (n, n') t 57-La-140  
 Cross Section -100.0 To 134.7 %



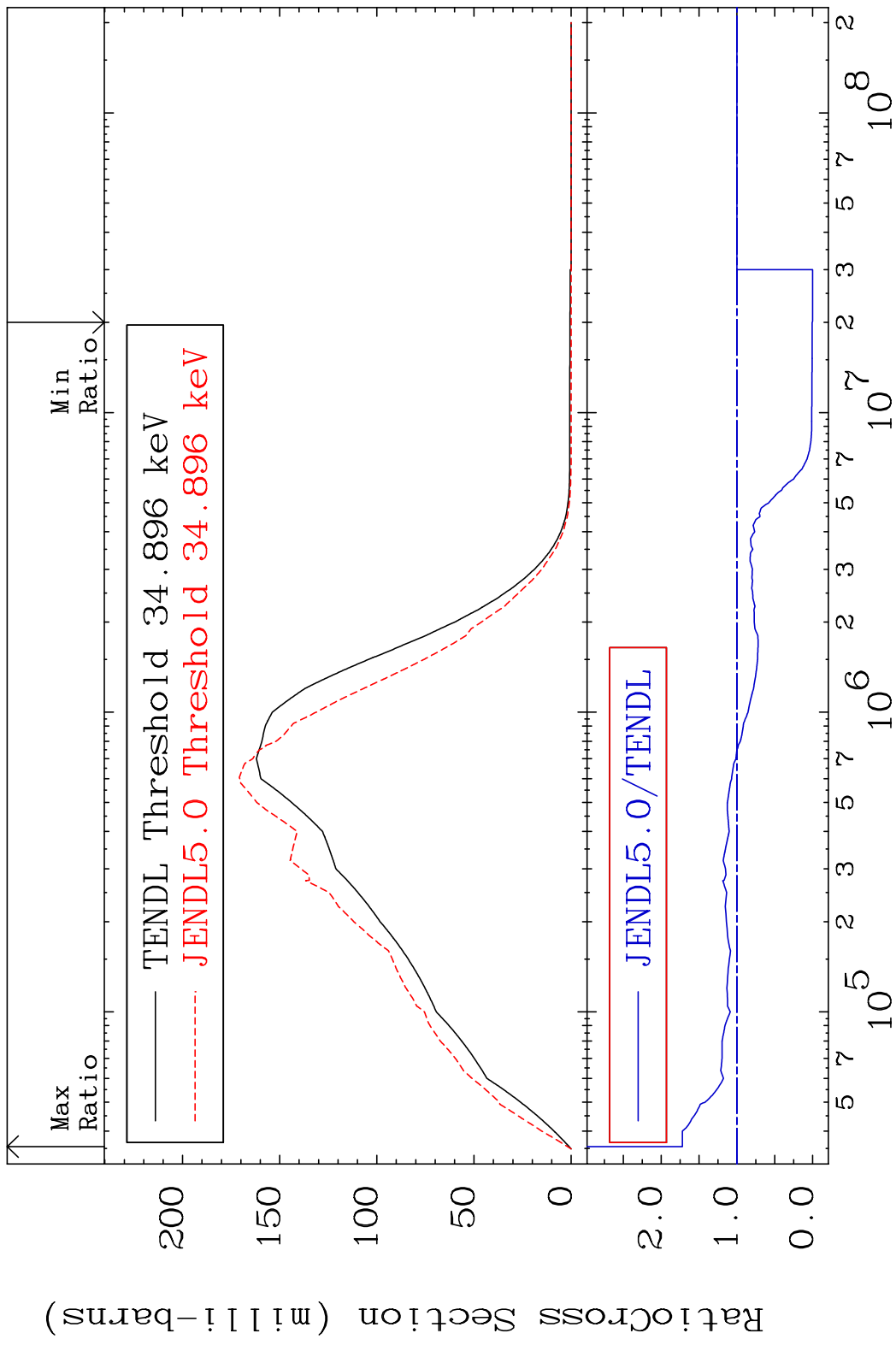
MAT 5731 (n,2n) p 57-La-140  
 Cross Section -100.0 To 79.09 %



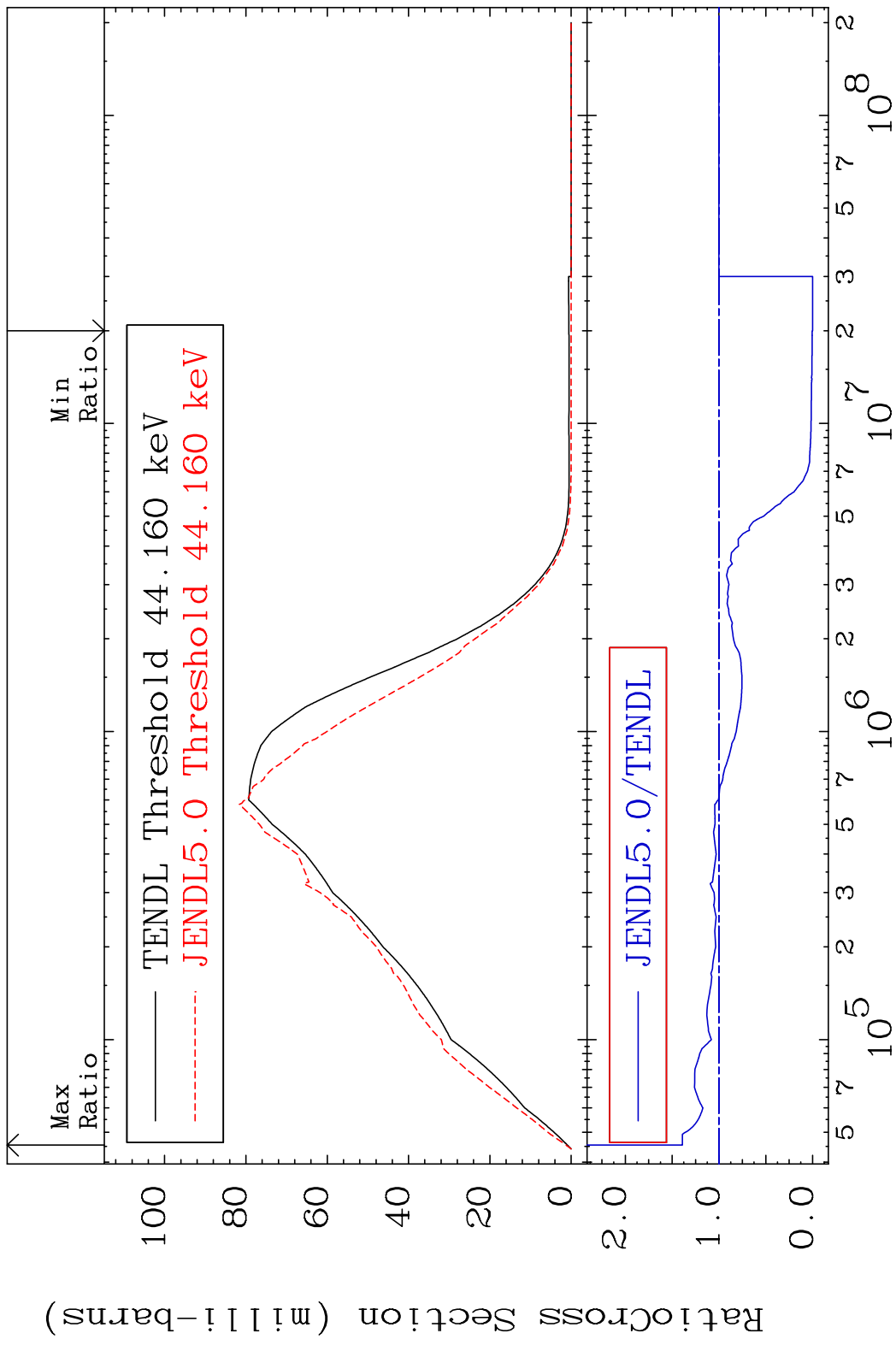
MAT 5731 MT= 51 (n,n') Level 57-La-140  
 Cross Section -100.0 To 9999. %



MAT 5731 MT= 52 (n,n') Level 57-La-140  
 Cross Section -100.0 To 71.97 %

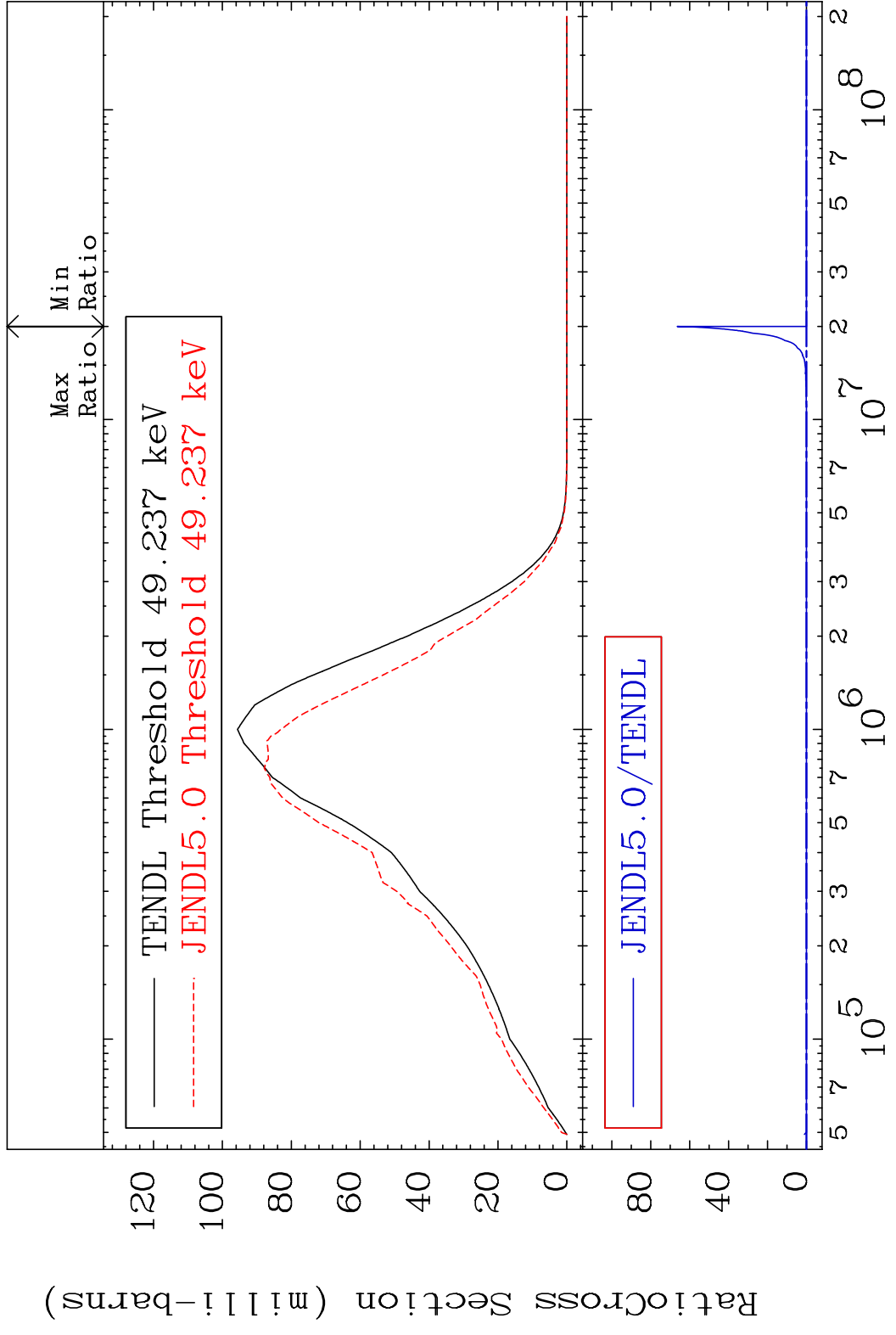


MAT 5731 MT= 53 (n,n') Level 57-La-140  
 Cross Section -100.0 To 39.10 %

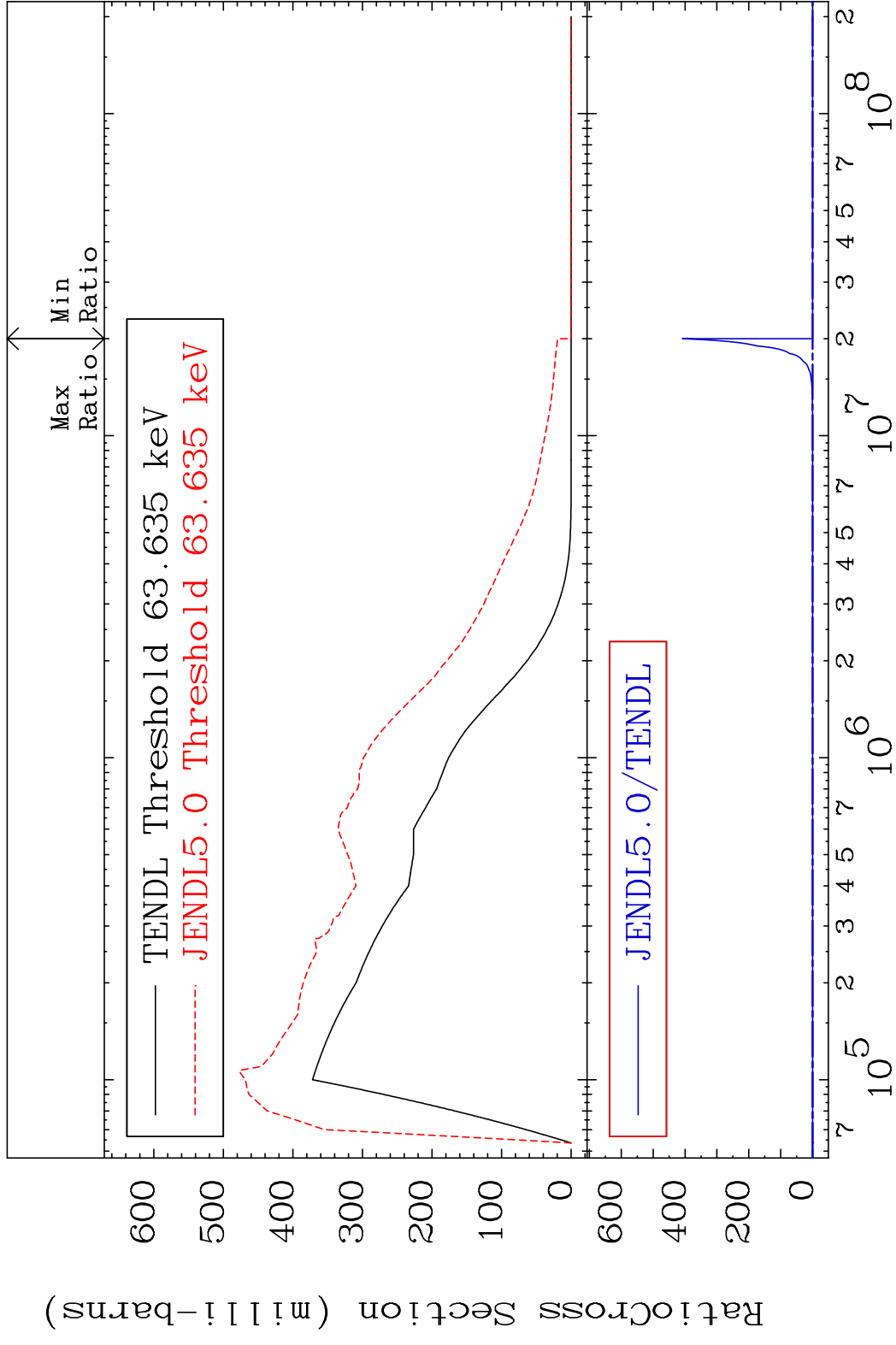




MAT 5731 MT= 54 (n,n') Level 57-La-140  
 Cross Section -100.0 To 9999. %

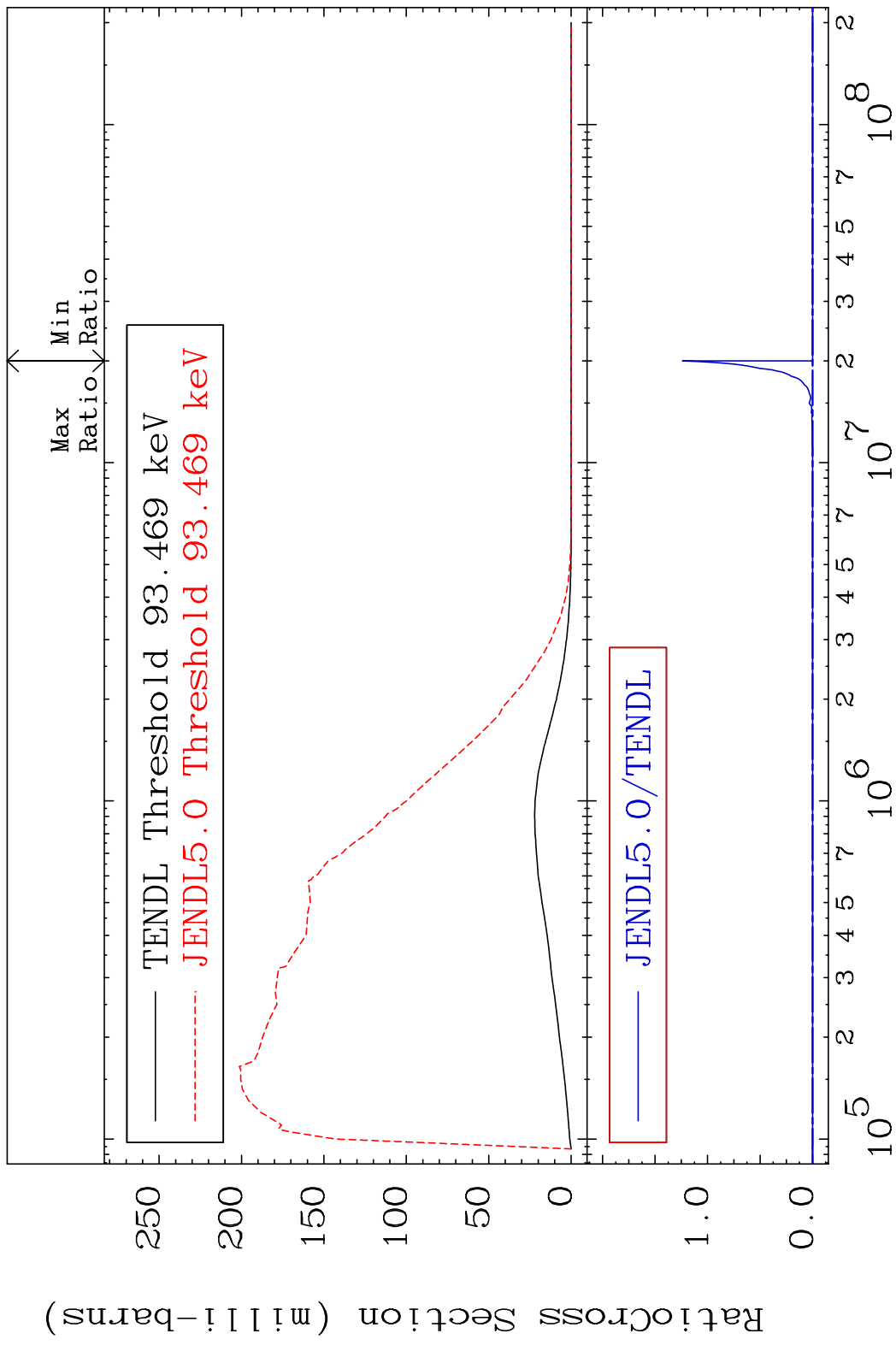


MAT 5731 MT= 55 (n,n') Level 57-La-140  
 Cross Section -100.0 To 9999. %



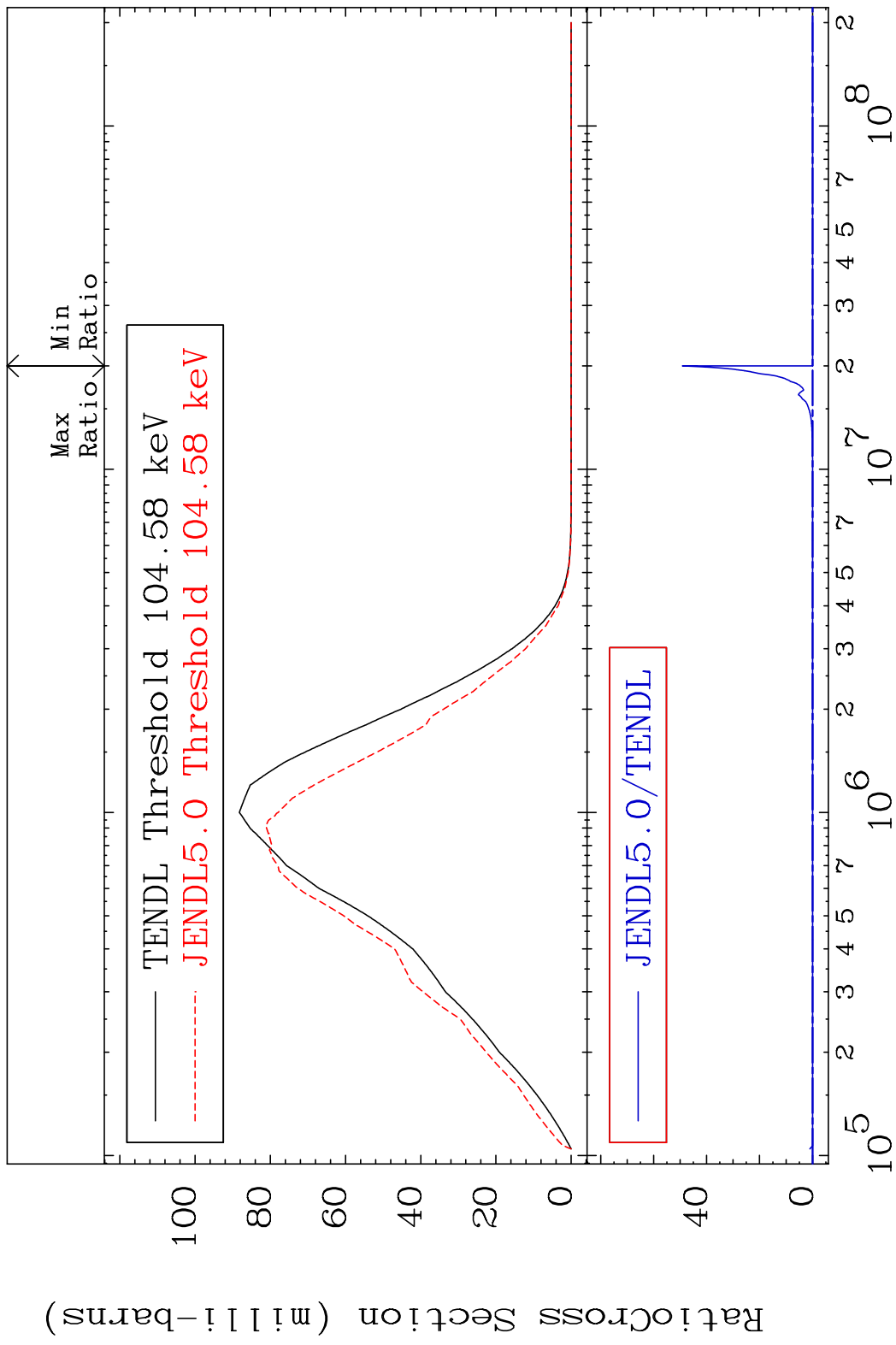
17 Incident Energy (eV) 57-La-140

MAT 5731 MT= 56 (n,n') Level 57-La-140  
 Cross Section -100.0 To 9999. %



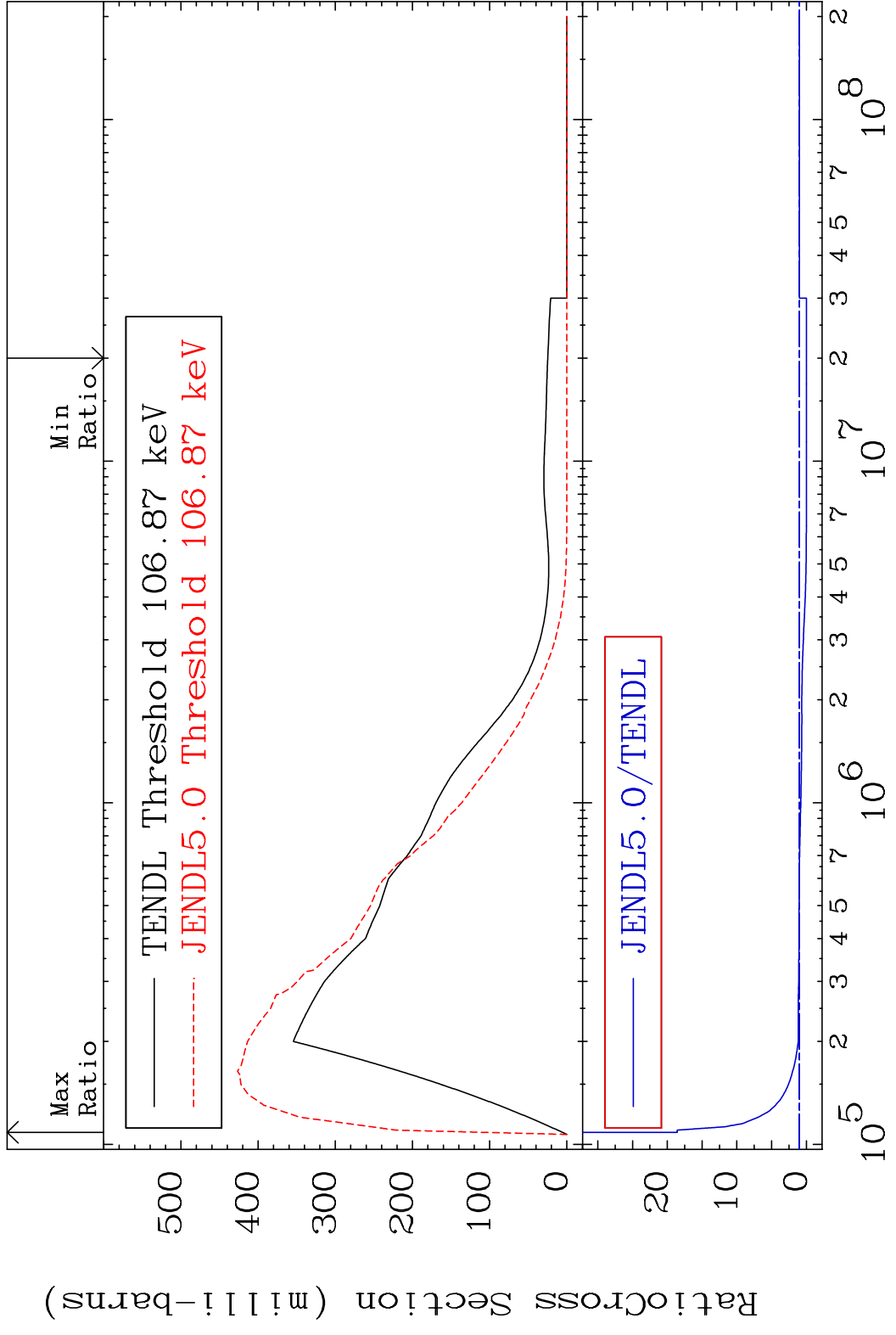
18 Incident Energy (eV) 57-La-140

MAT 5731 MT= 57 (n,n') Level 57-La-140  
 Cross Section -100.0 To 9999. %



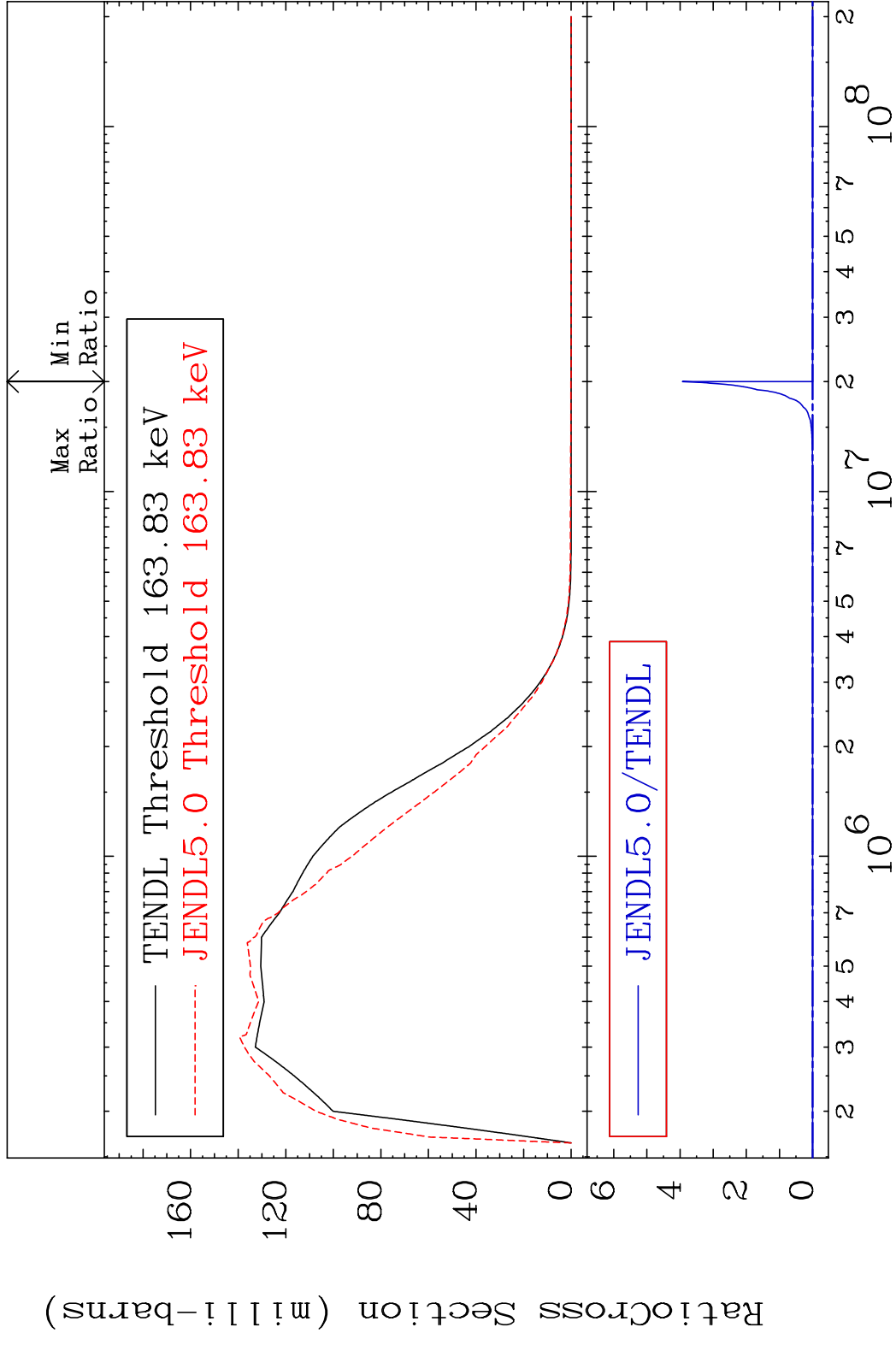
19 Incident Energy (eV) 57-La-140

MAT 5731 MT= 58 (n,n') Level 57-La-140  
 Cross Section -100.0 To 1758. %

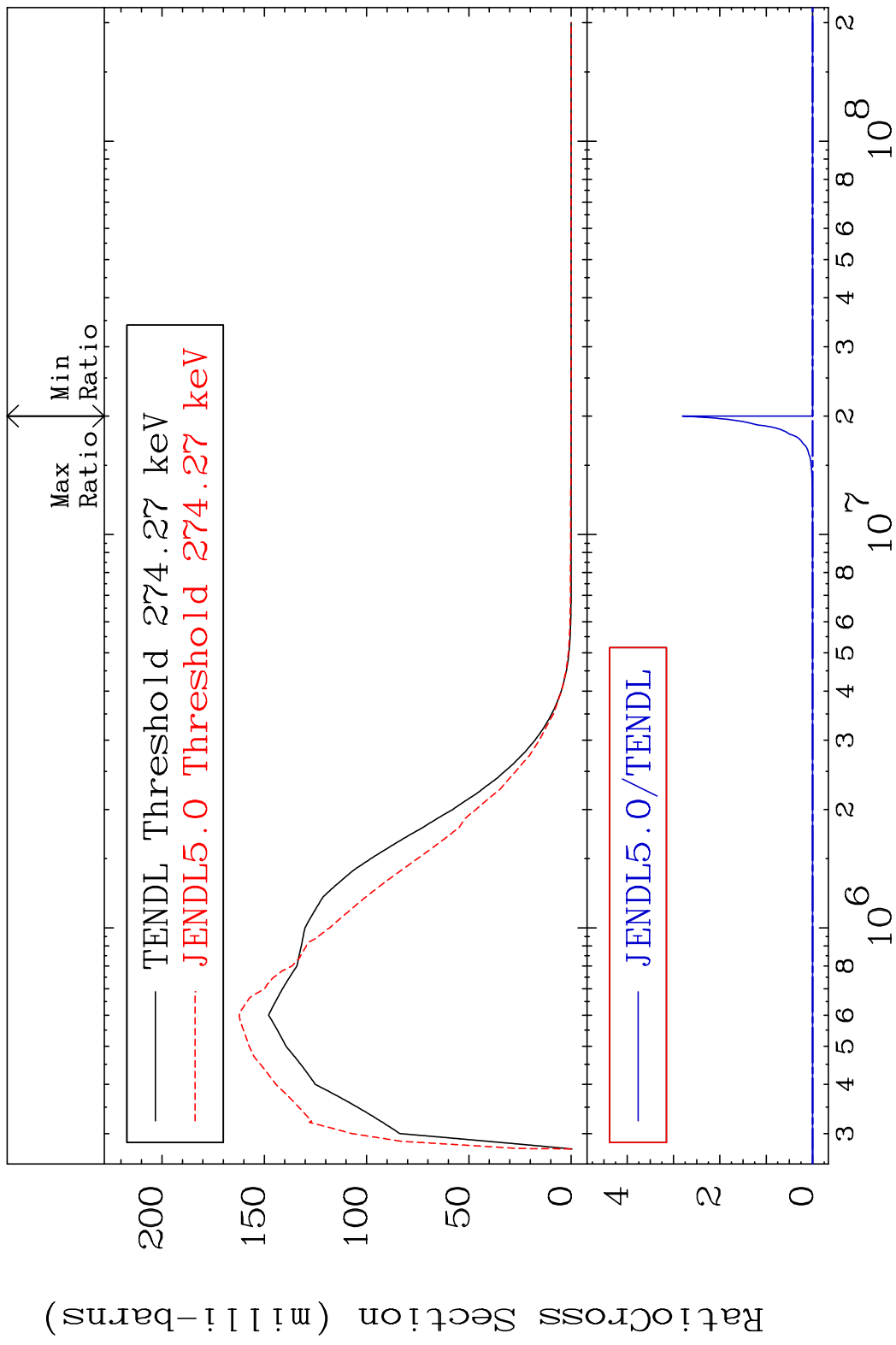


20 10 0 500 400 300 200 100 0 20 10 0 2 3 4 5 6 7 8 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

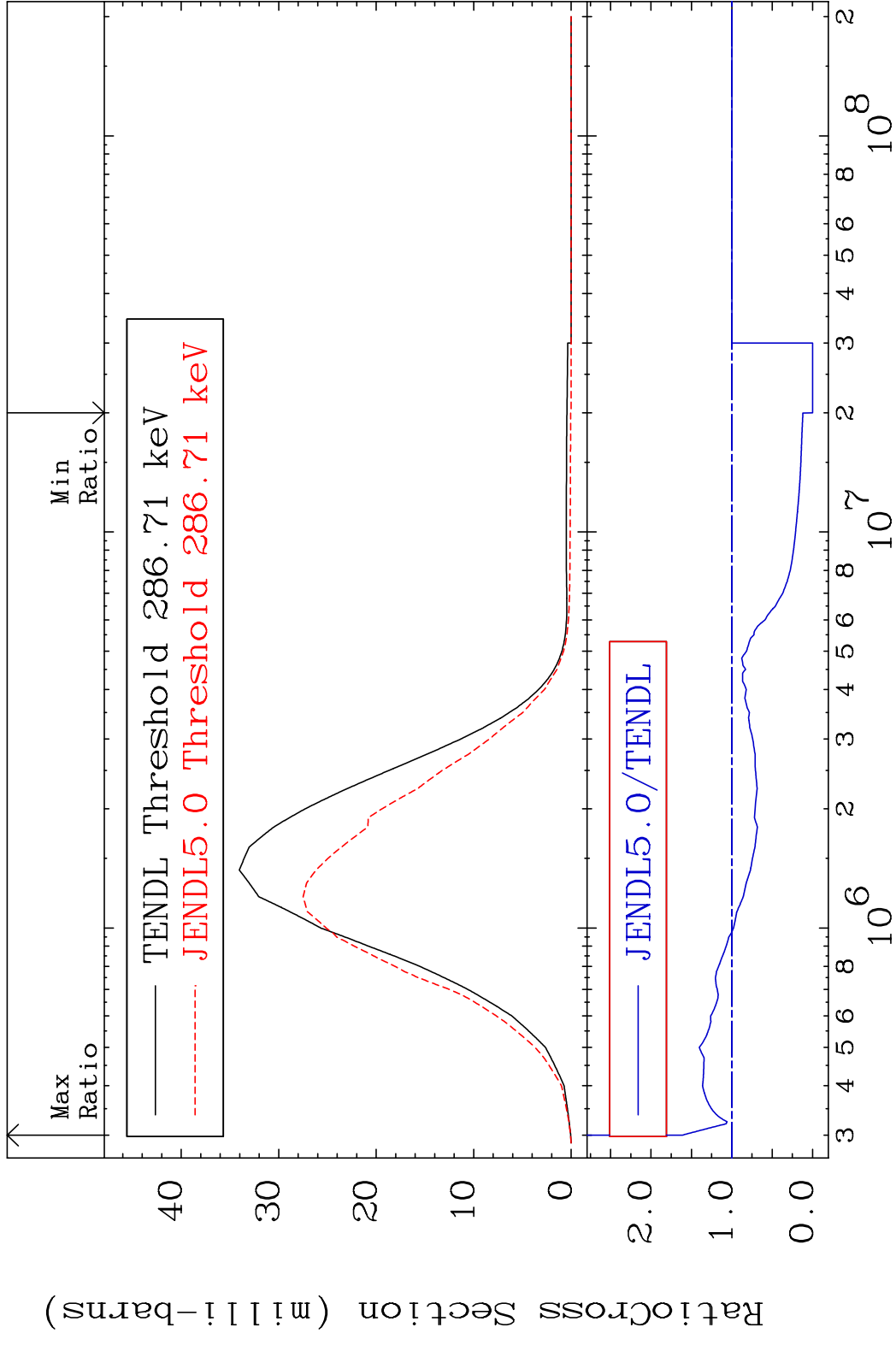
MAT 5731 MT= 59 (n,n') Level 57-La-140  
 Cross Section -100.0 To 9999. %



MAT 5731 MT= 60 (n, n') Level 57-La-140  
 Cross Section -100.0 To 9999. %

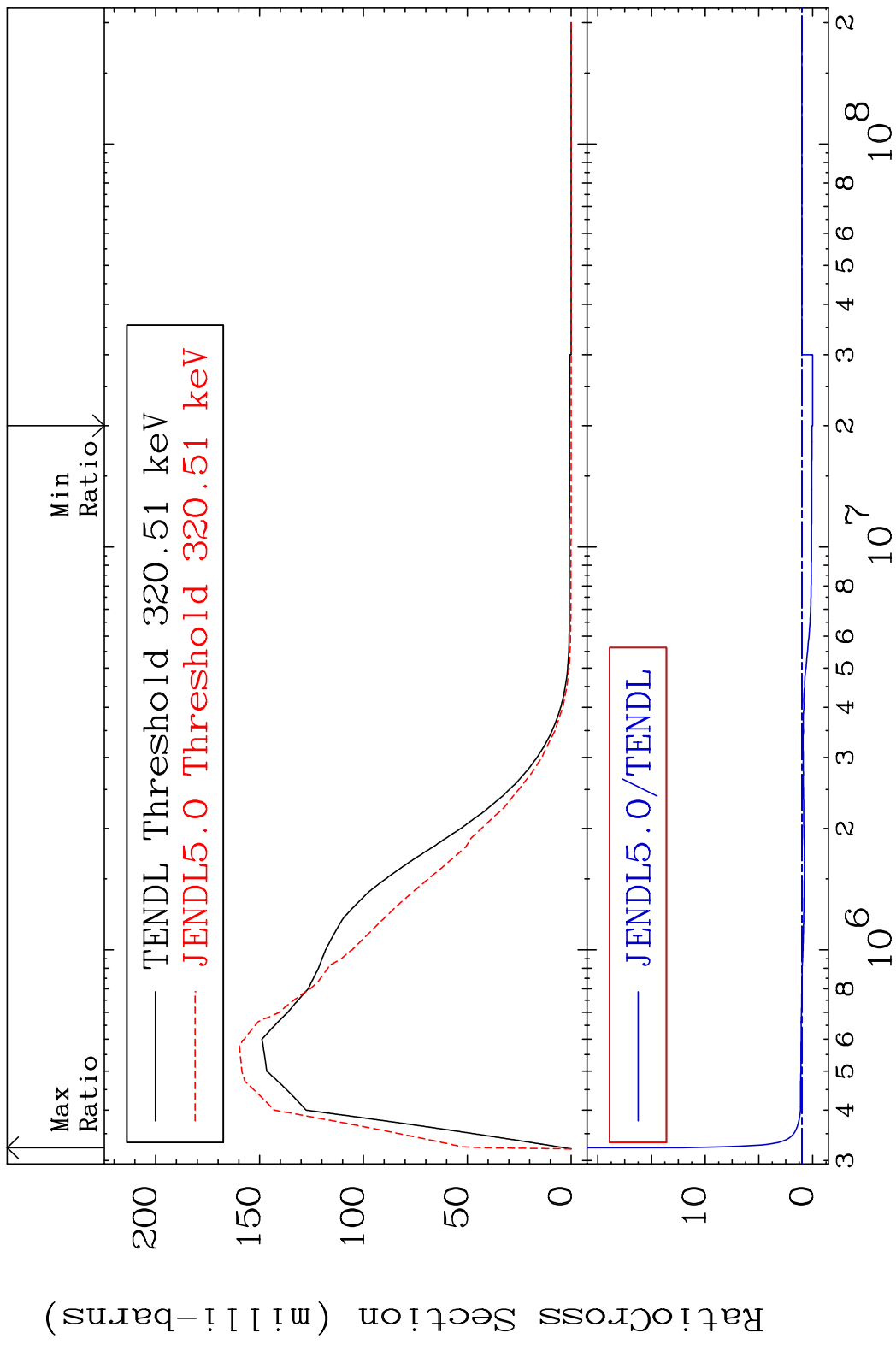


MAT 5731 MT= 61 (n, n') Level 57-La-140  
 Cross Section -100.0 To 61.22 %

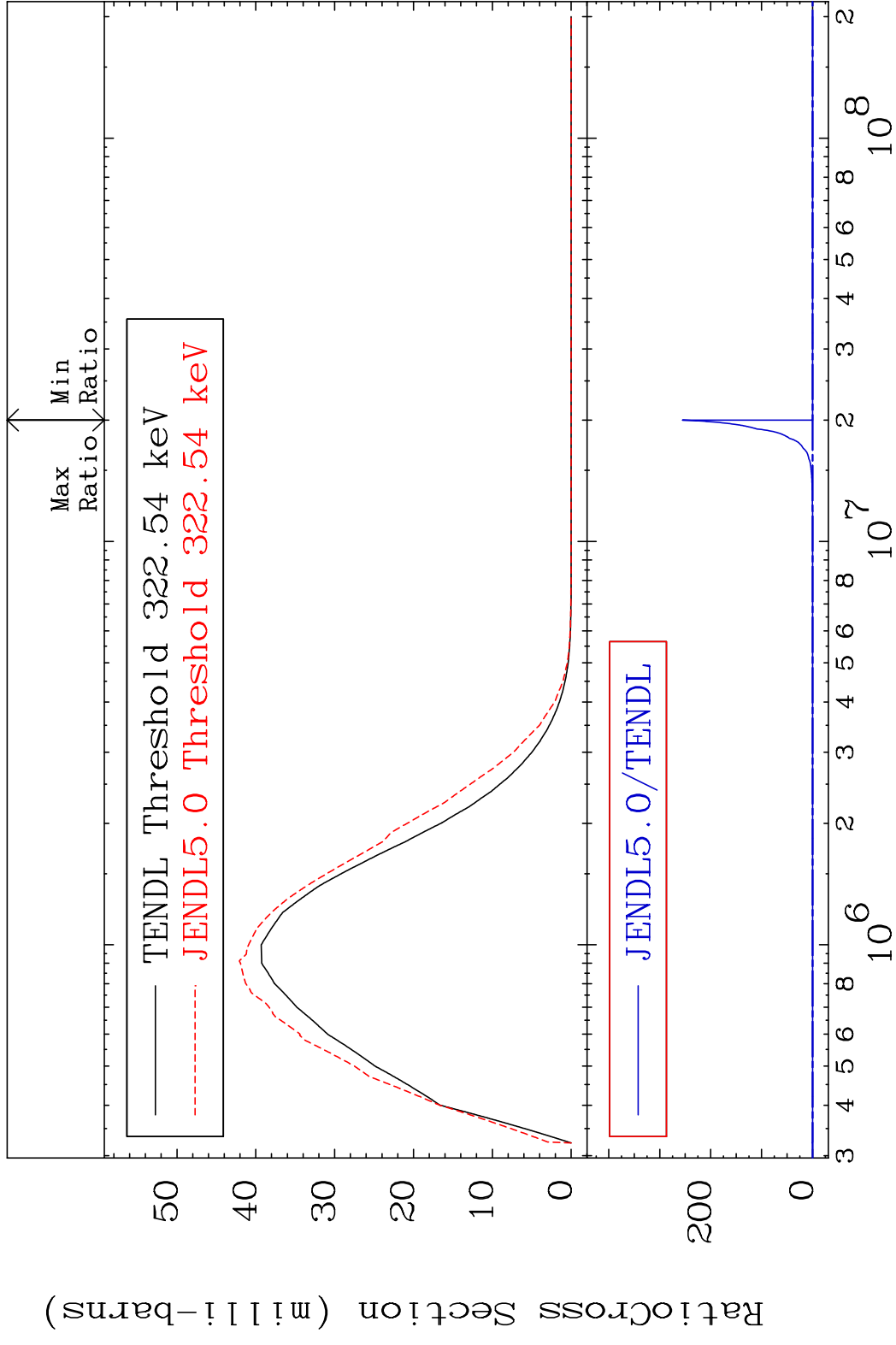




MAT 5731 MT= 62 (n,n') Level 57-La-140  
 Cross Section -100.0 To 1113. %

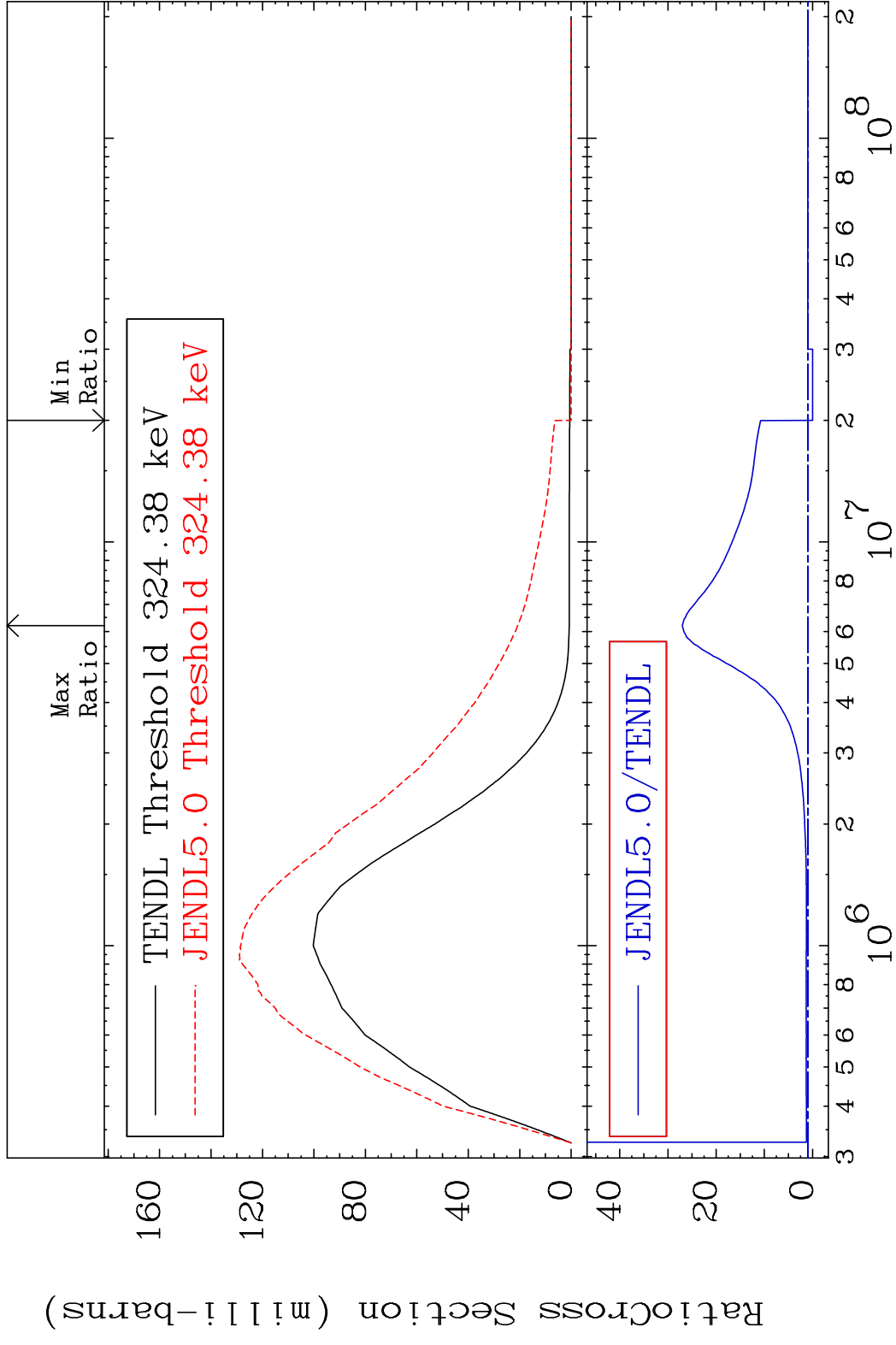


MAT 5731 MT= 63 (n, n') Level 57-La-140  
 Cross Section -100.0 To 9999. %

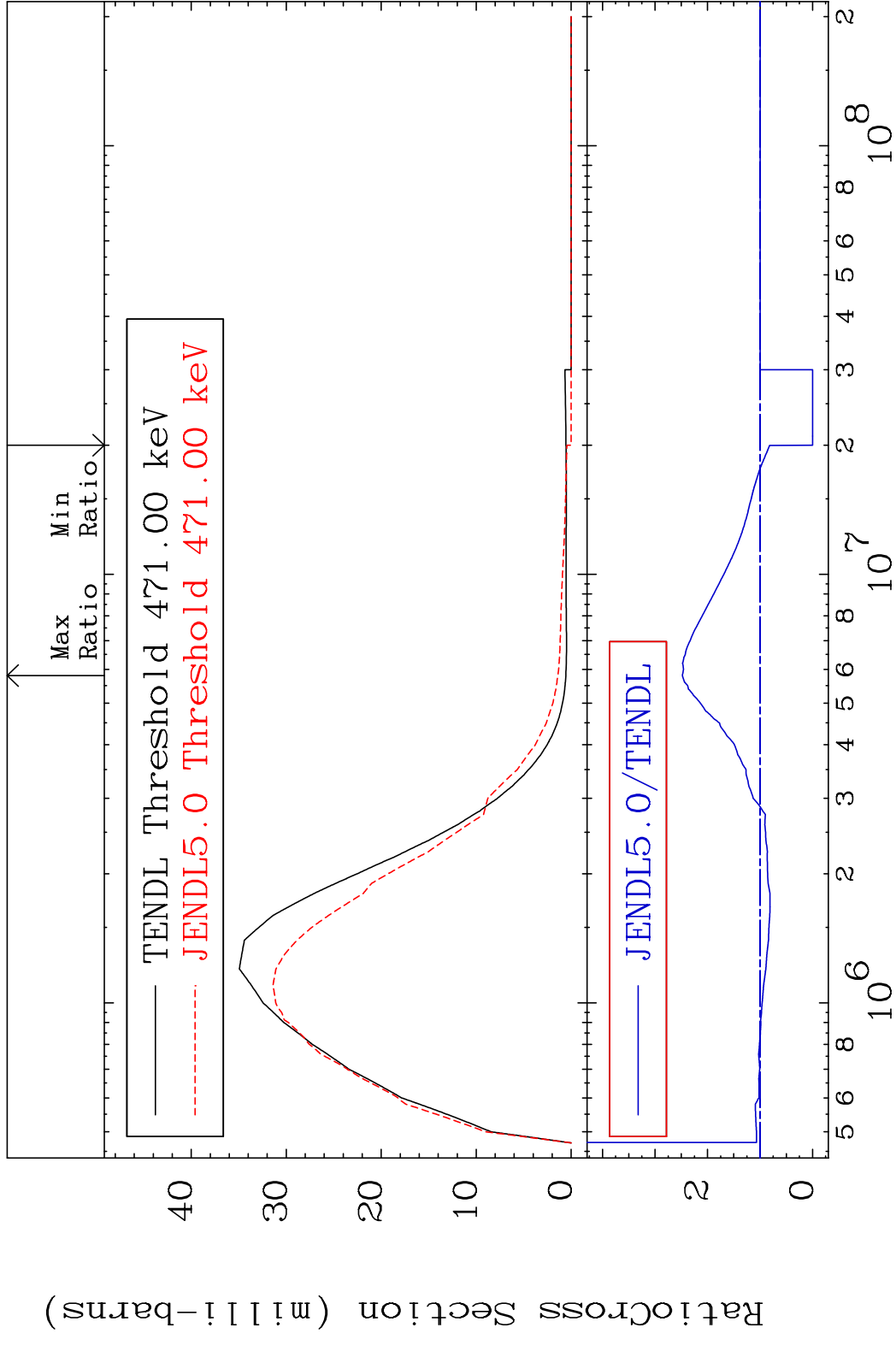


25 Incident Energy (eV) 57-La-140

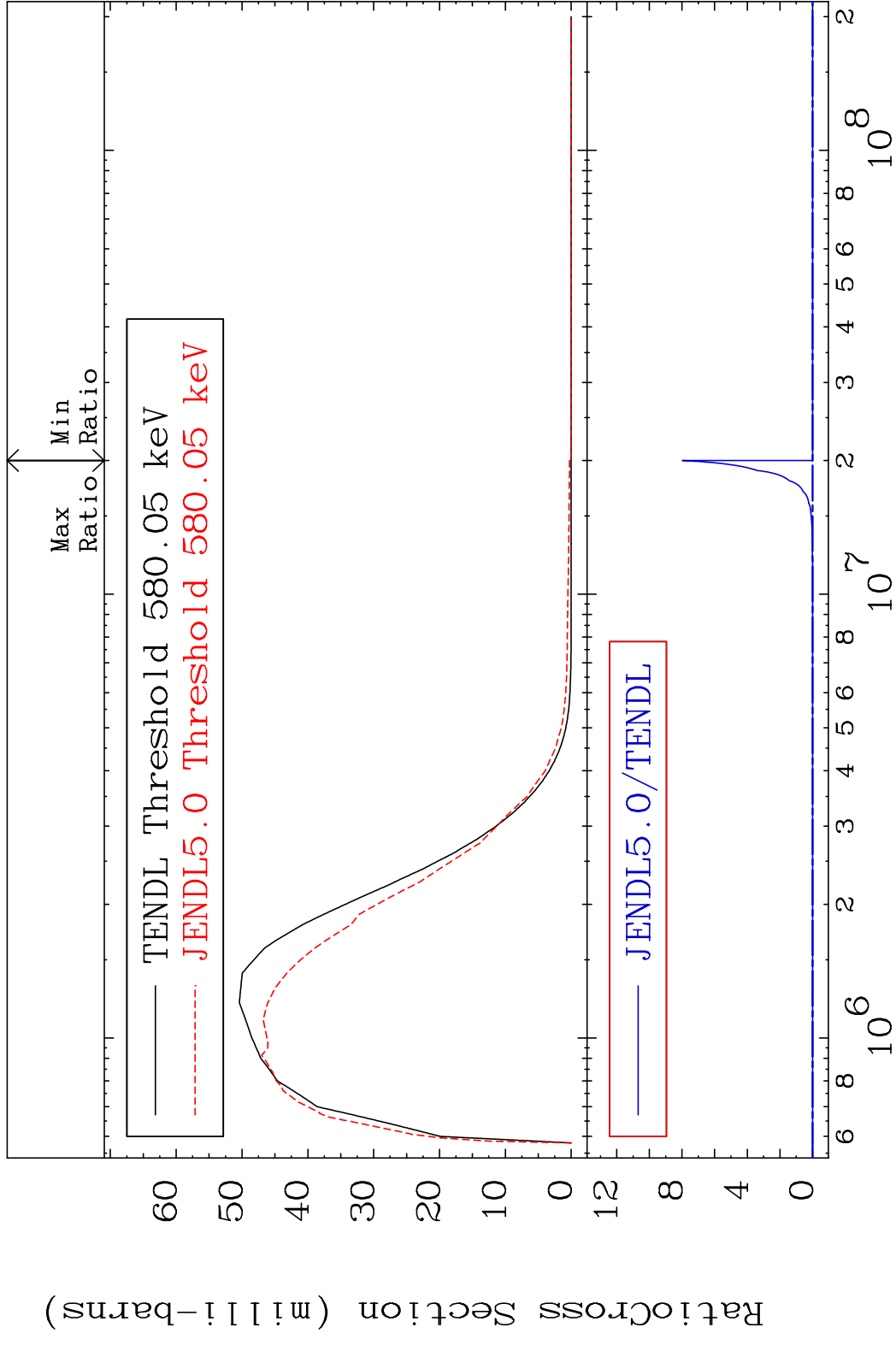
MAT 5731 MT= 64 (n, n') Level 57-La-140  
 Cross Section -100.0 To 2601. %



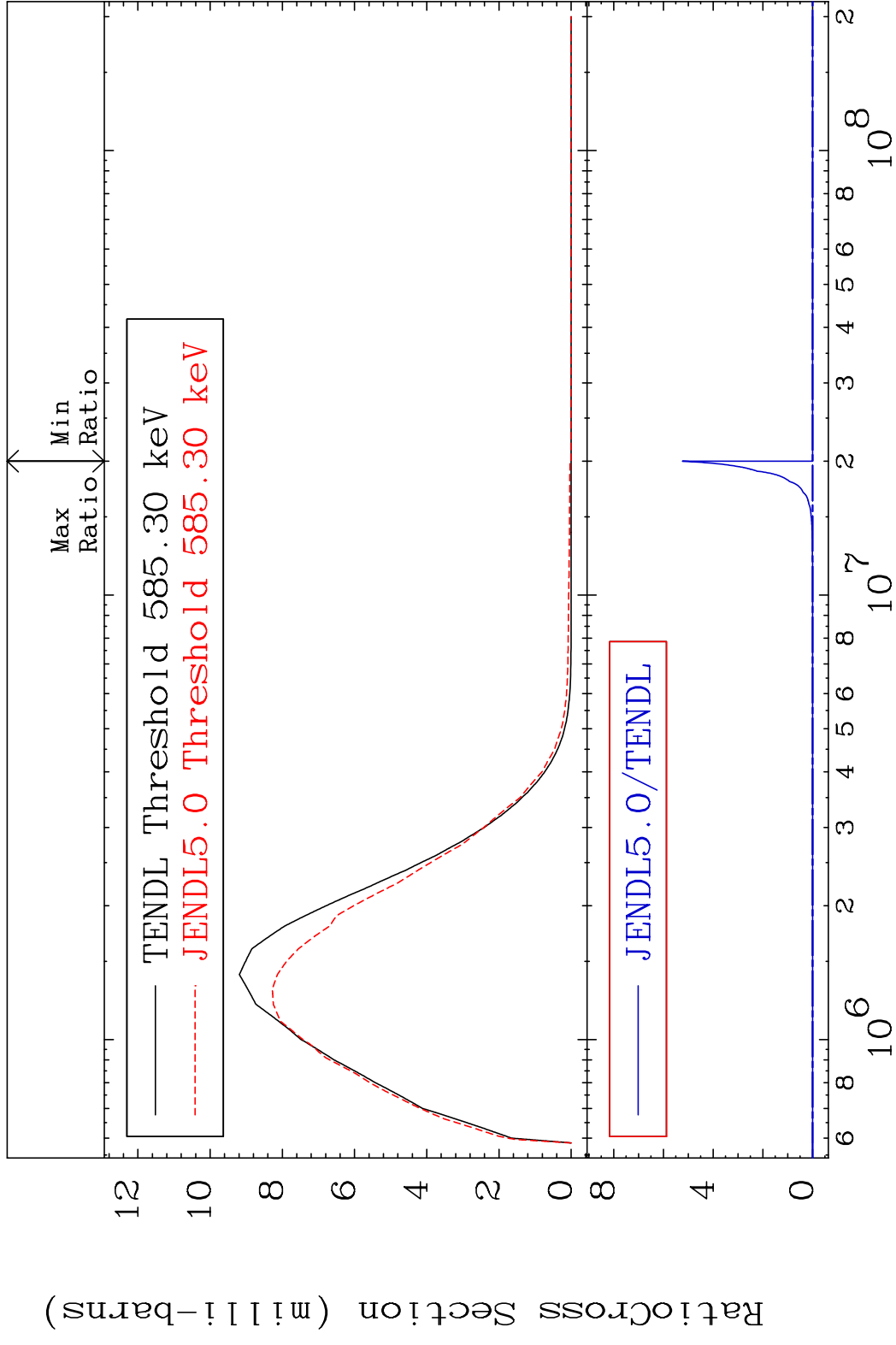
MAT 5731 MT= 65 (n, n') Level 57-La-140  
 Cross Section -100.0 To 147.9 %



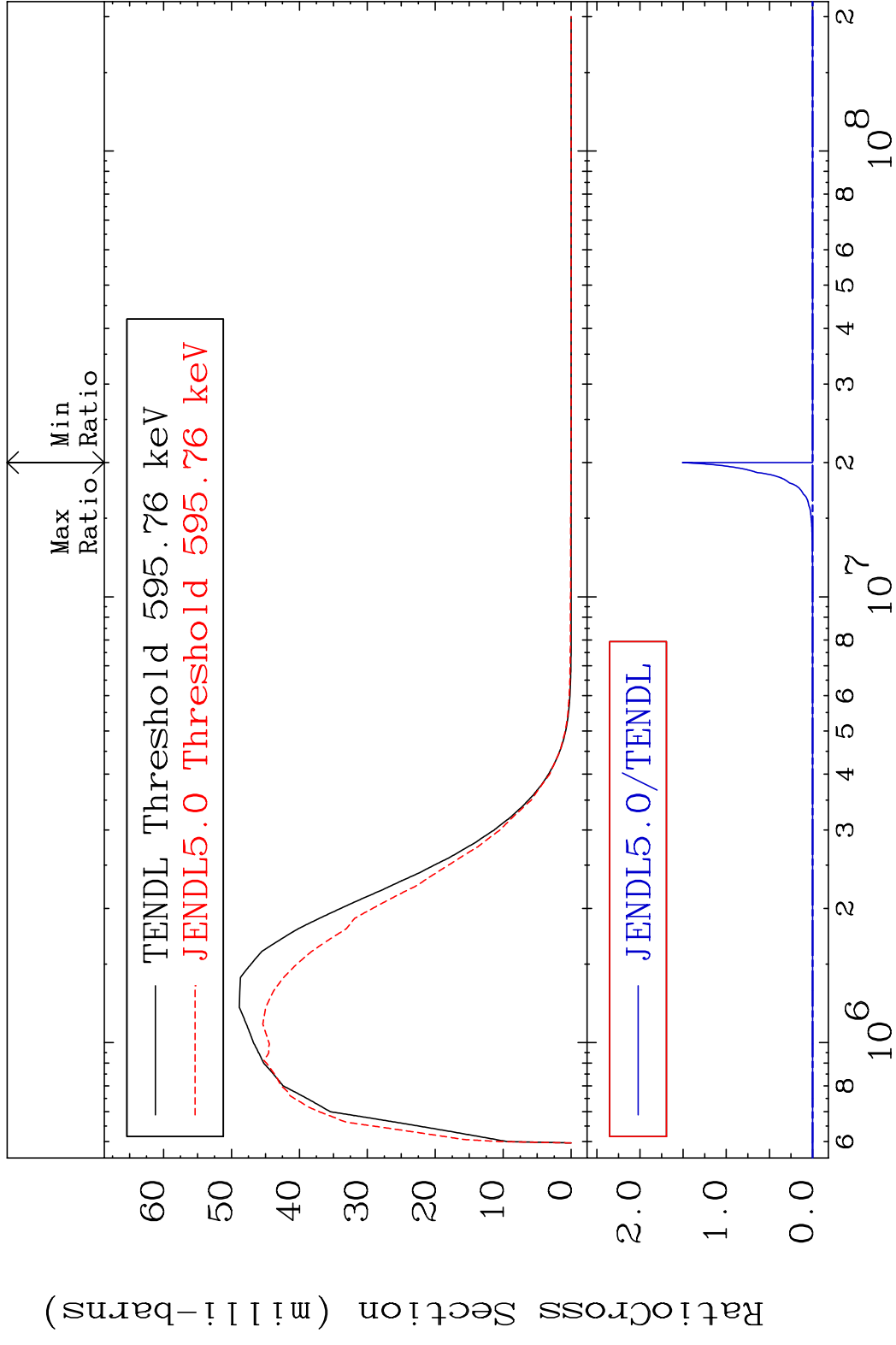
MAT 5731 MT= 66 (n, n') Level 57-La-140  
 Cross Section -100.0 To 9999. %



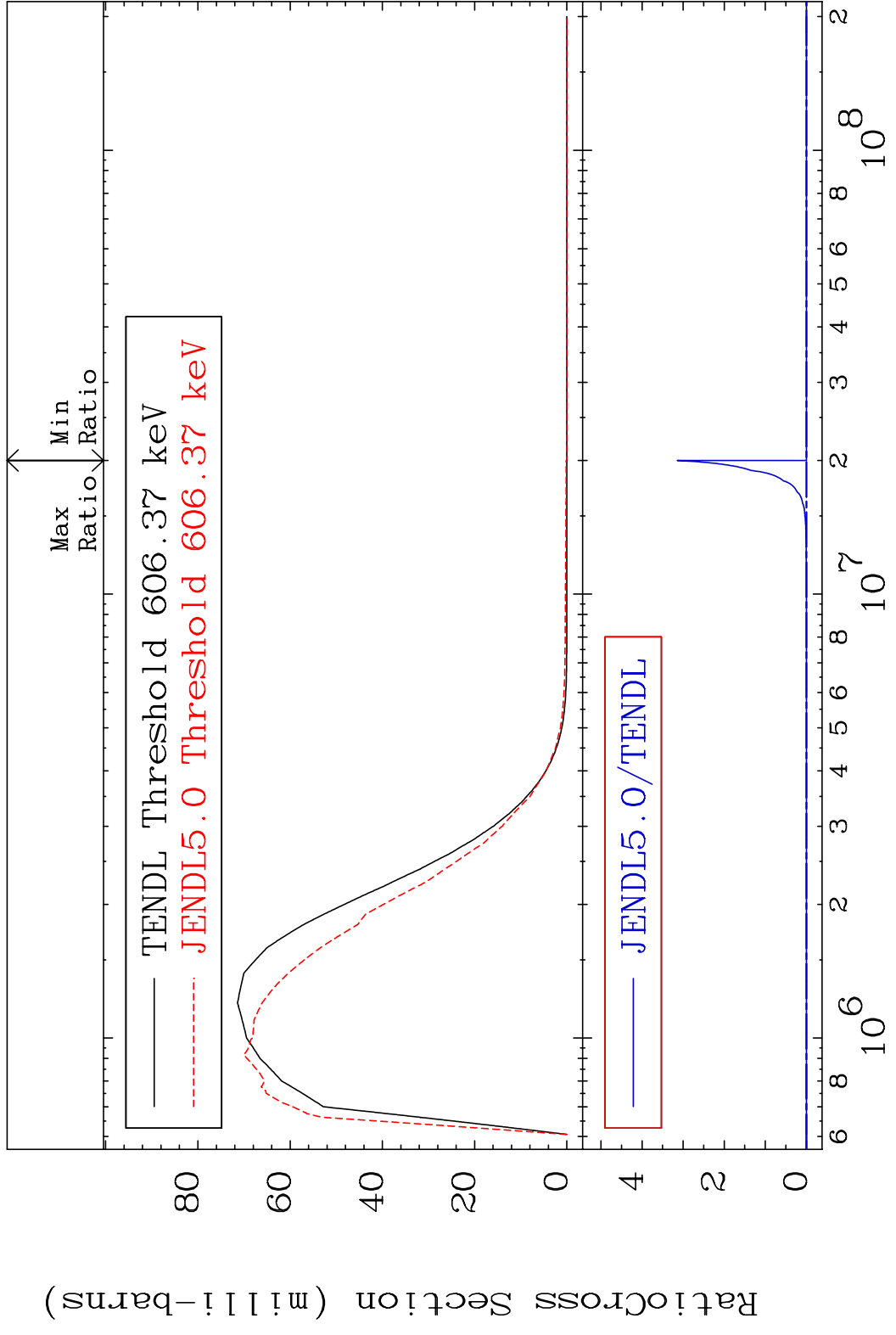
MAT 5731 MT= 67 (n, n') Level 57-La-140  
 Cross Section -100.0 To 9999. %



MAT 5731 MT= 68 (n, n') Level 57-La-140  
 Cross Section -100.0 To 9999. %

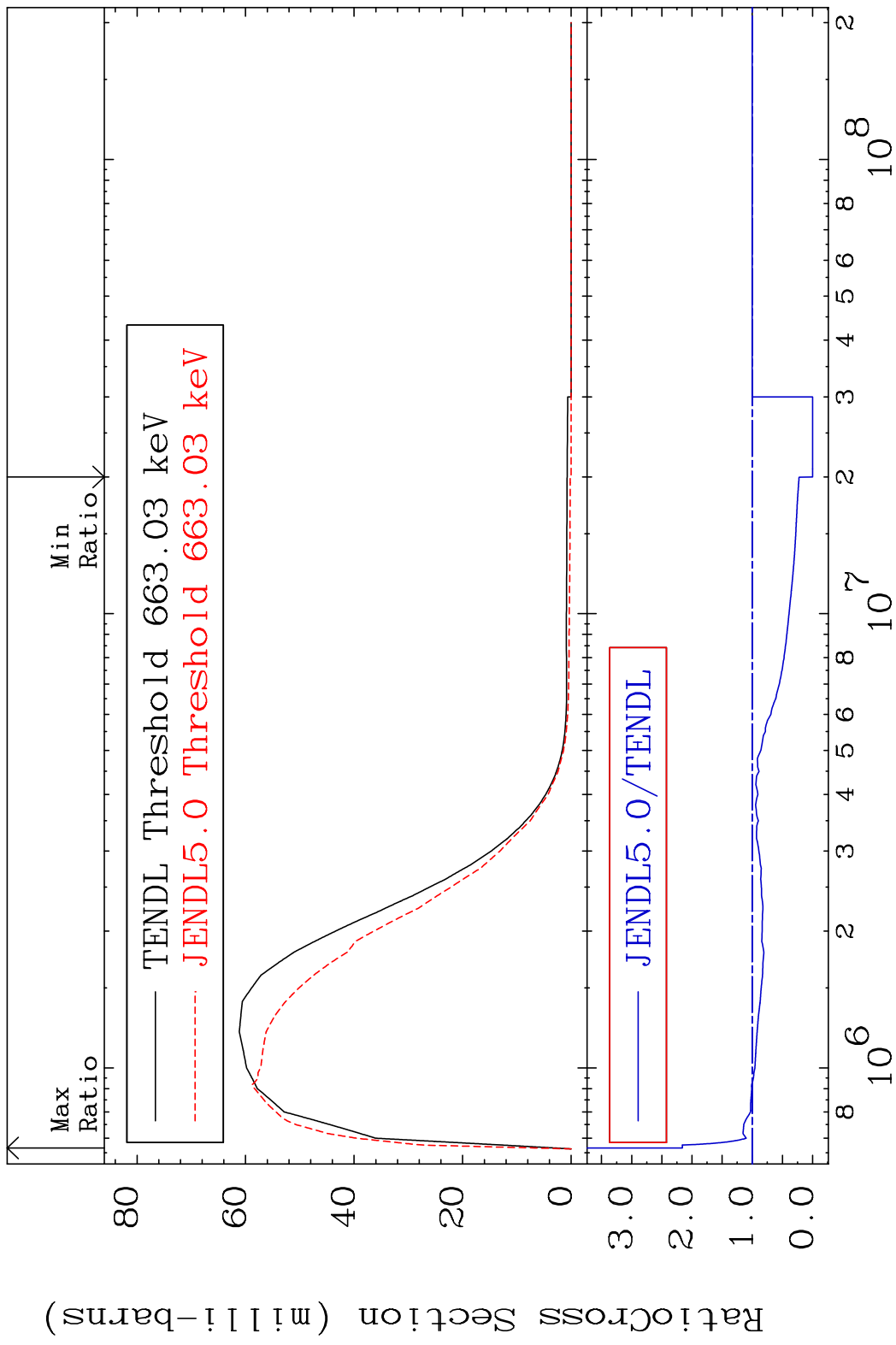


MAT 5731 MT= 69 (n, n') Level 57-La-140  
 Cross Section -100.0 To 9999. %



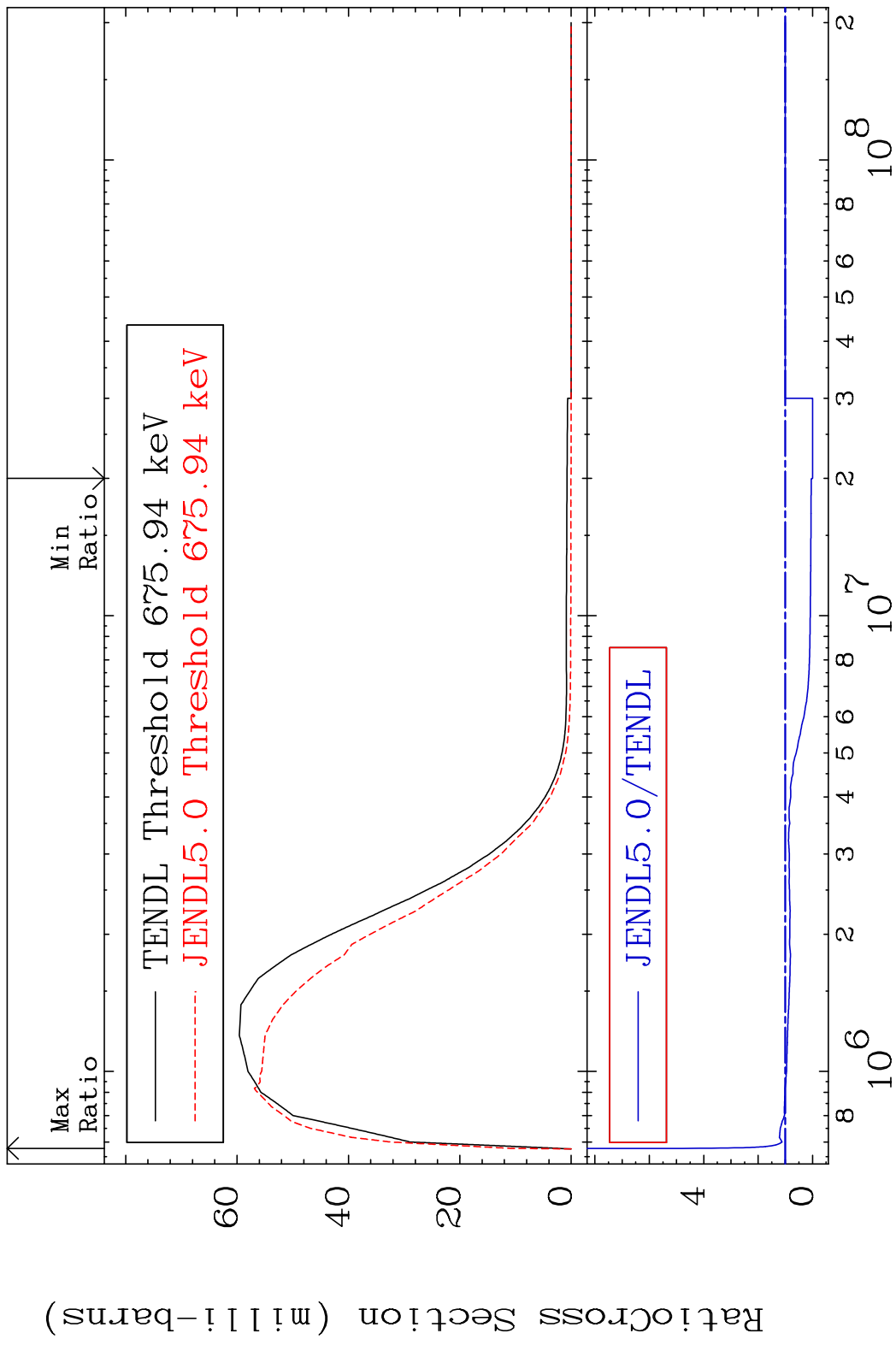


MAT 5731 MT= 70 (n, n') Level 57-La-140  
 Cross Section -100.0 To 115.9 %



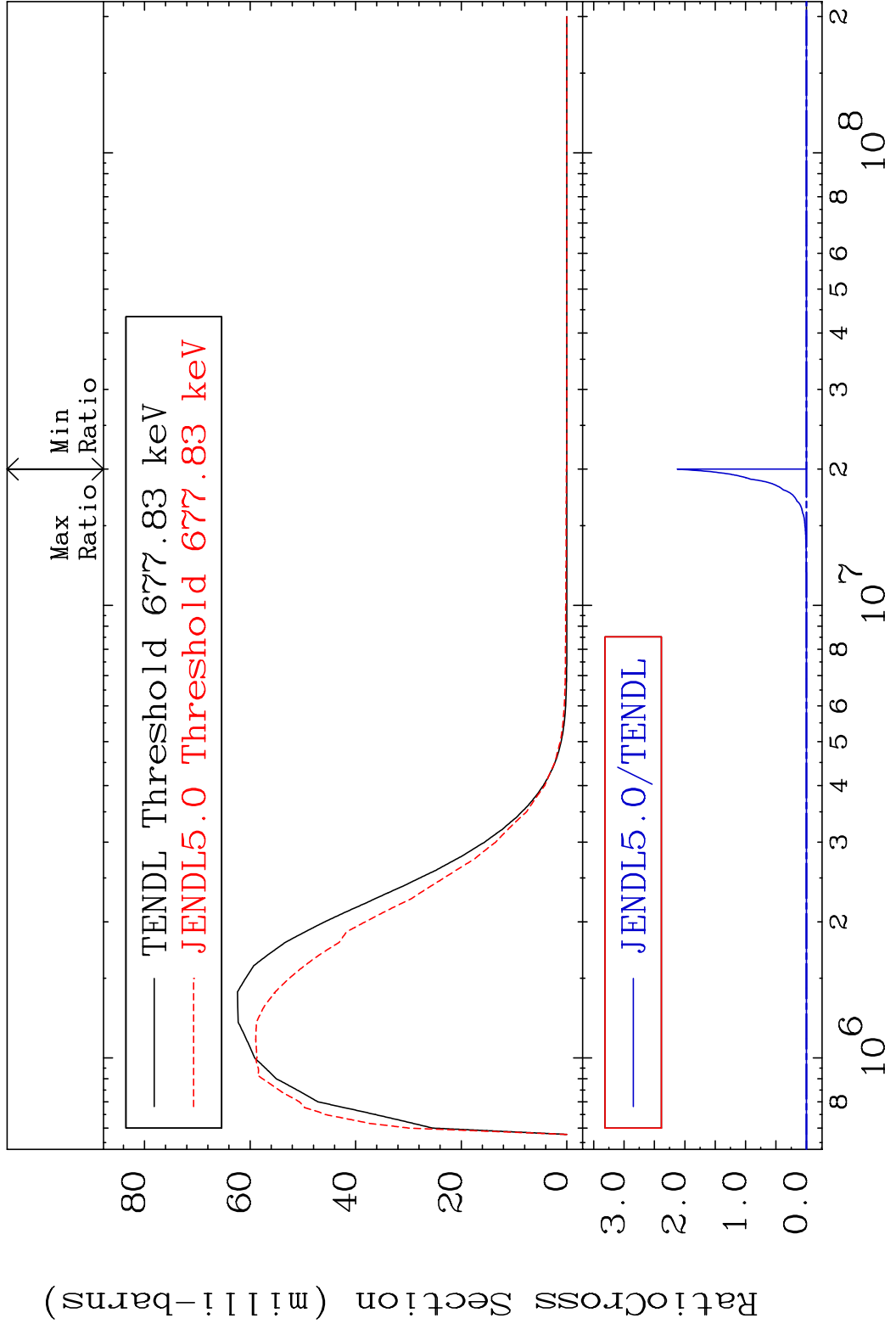
32 Incident Energy (eV) 57-La-140

MAT 5731 MT= 71 (n, n') Level 57-La-140  
 Cross Section -100.0 To 378.5 %



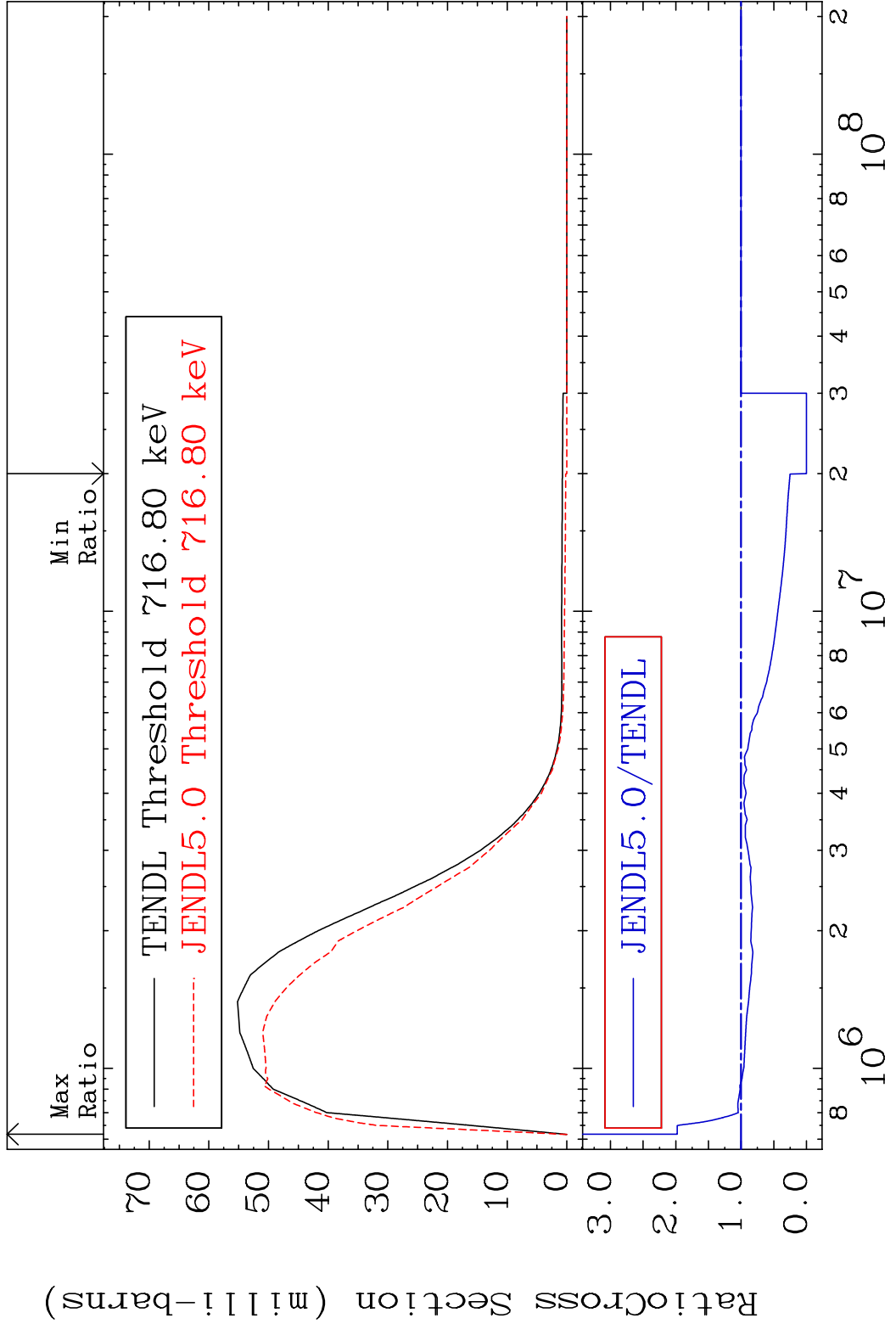
33 Incident Energy (eV) 57-La-140

MAT 5731 MT= 72 (n, n') Level 57-La-140  
 Cross Section -100.0 To 9999. %

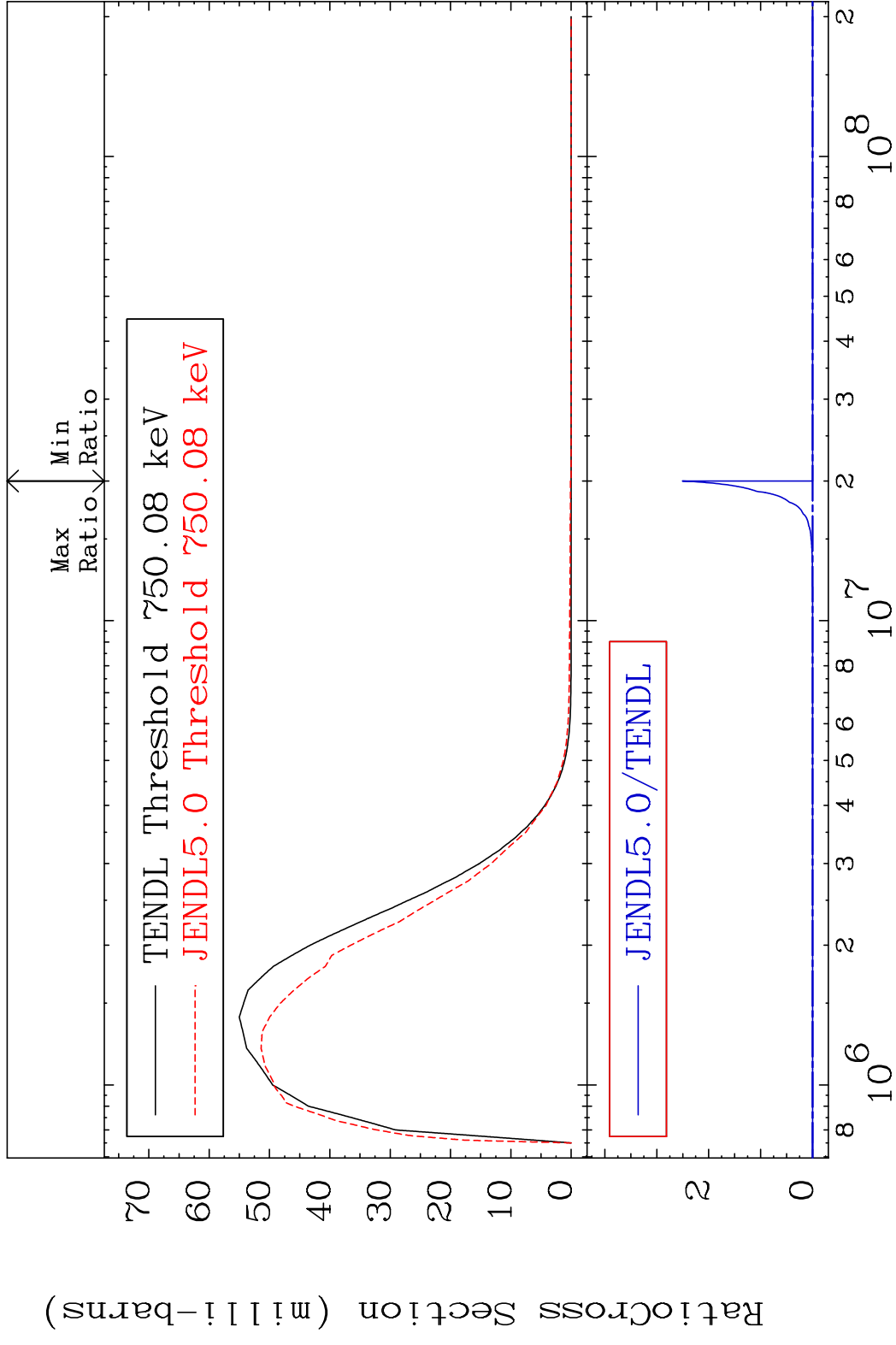


34 Incident Energy (eV) 57-La-140

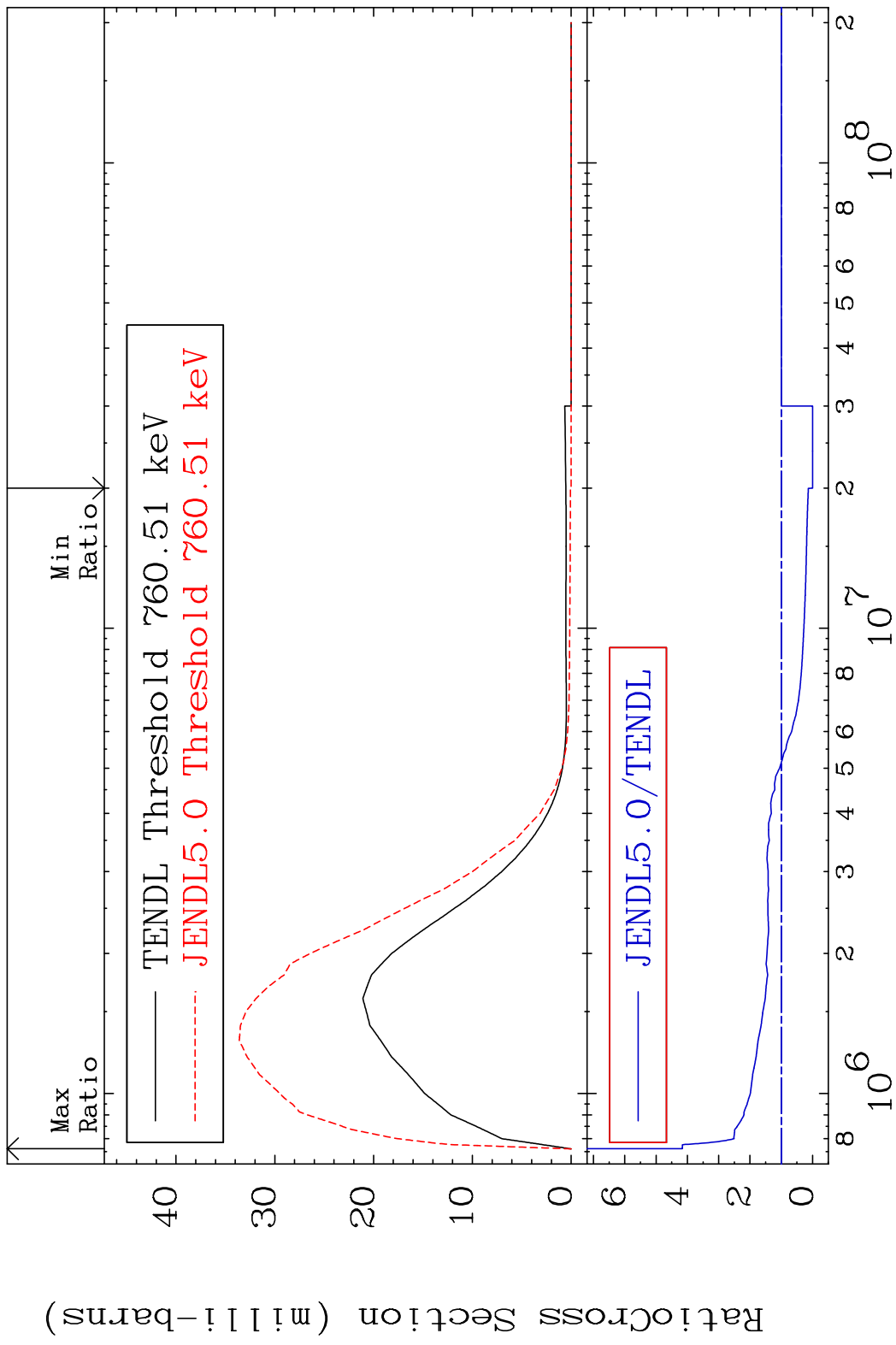
MAT 5731 MT= 73 (n, n') Level 57-La-140  
 Cross Section -100.0 To 97.87 %



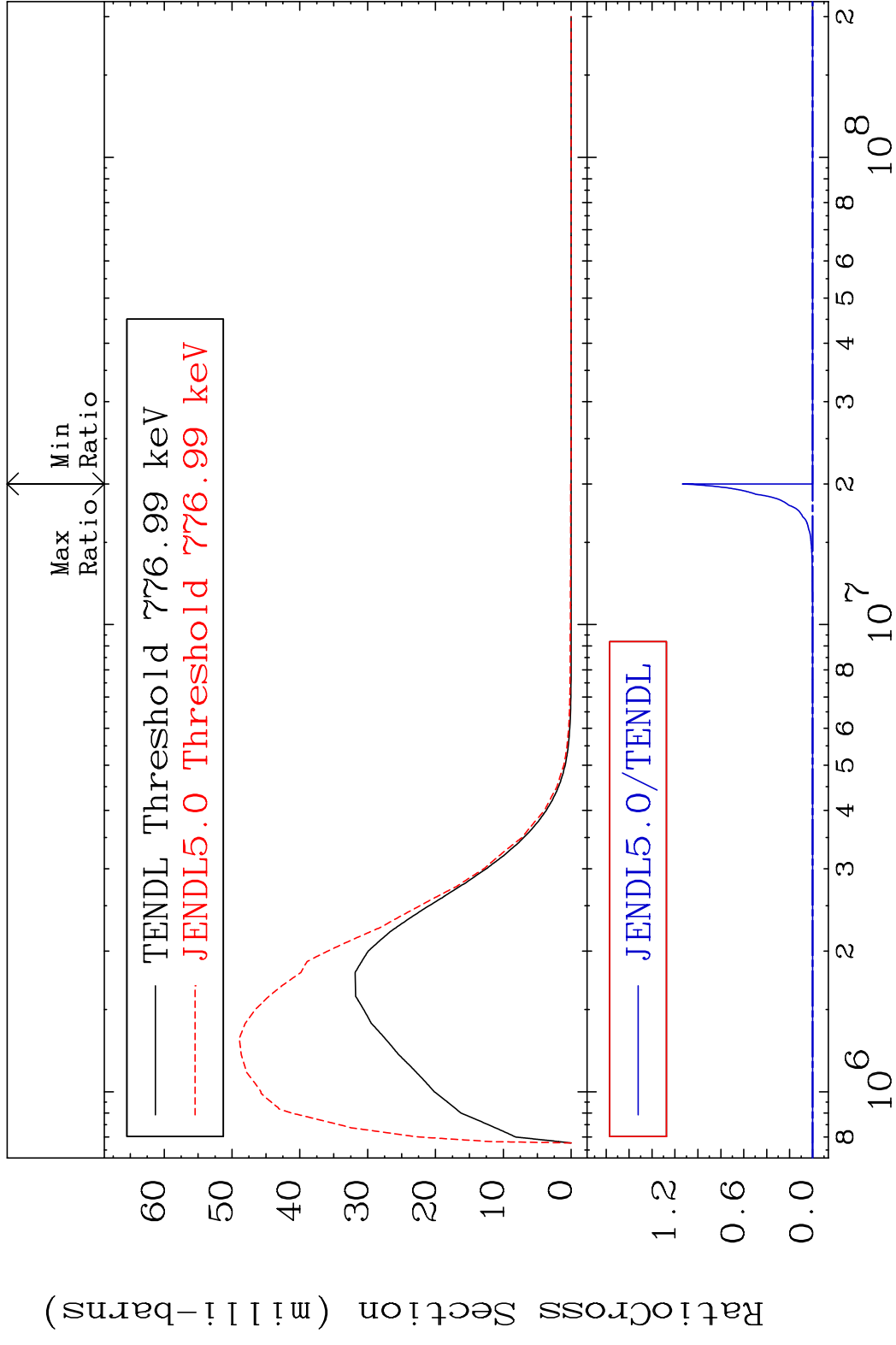
MAT 5731 MT= 74 (n, n') Level 57-La-140  
 Cross Section -100.0 To 9999. %



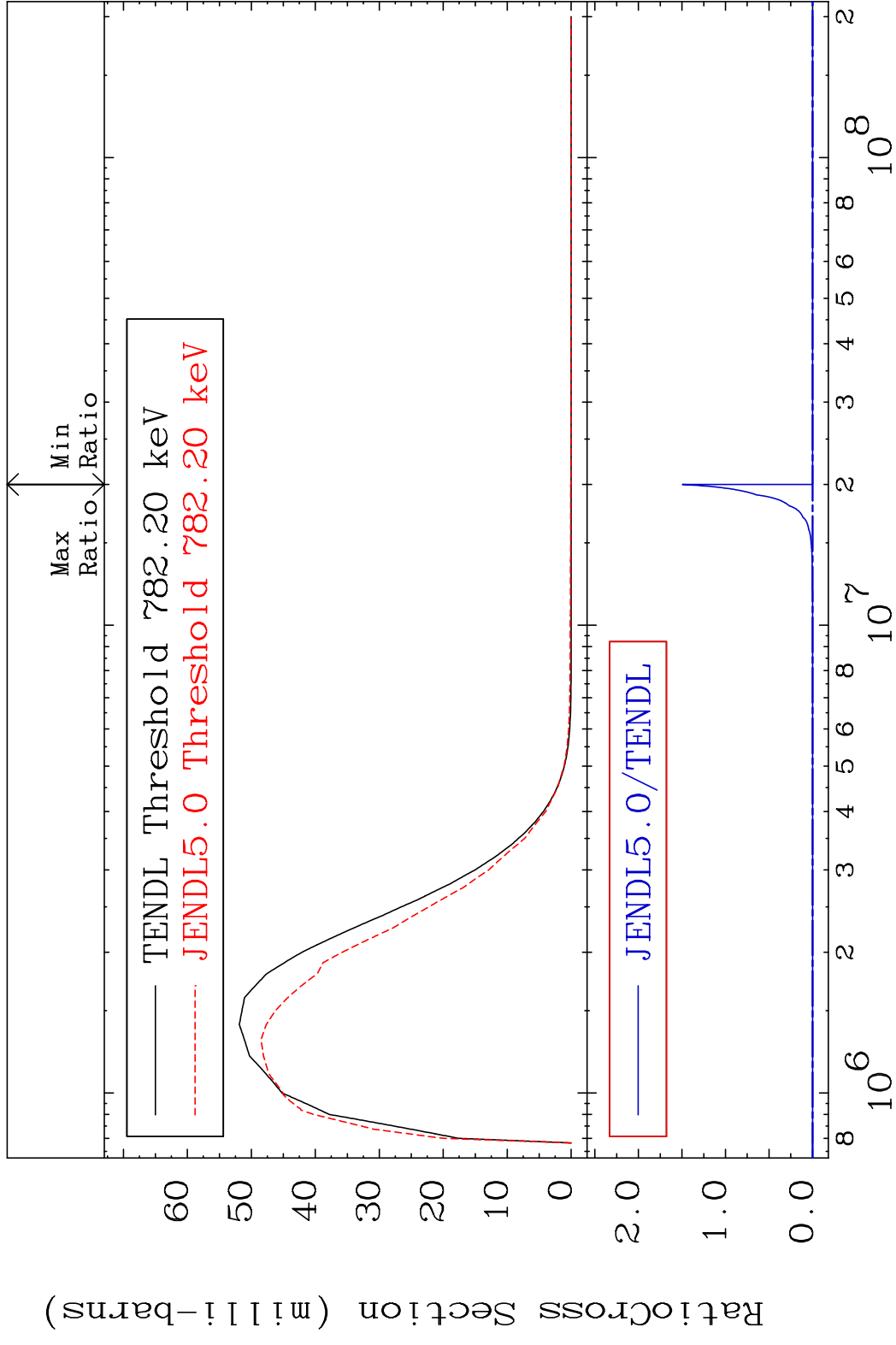
MAT 5731 MT= 75 (n, n') Level 57-La-140  
 Cross Section -100.0 To 316.1 %



MAT 5731 MT= 76 (n, n') Level 57-La-140  
 Cross Section -100.0 To 9999. %



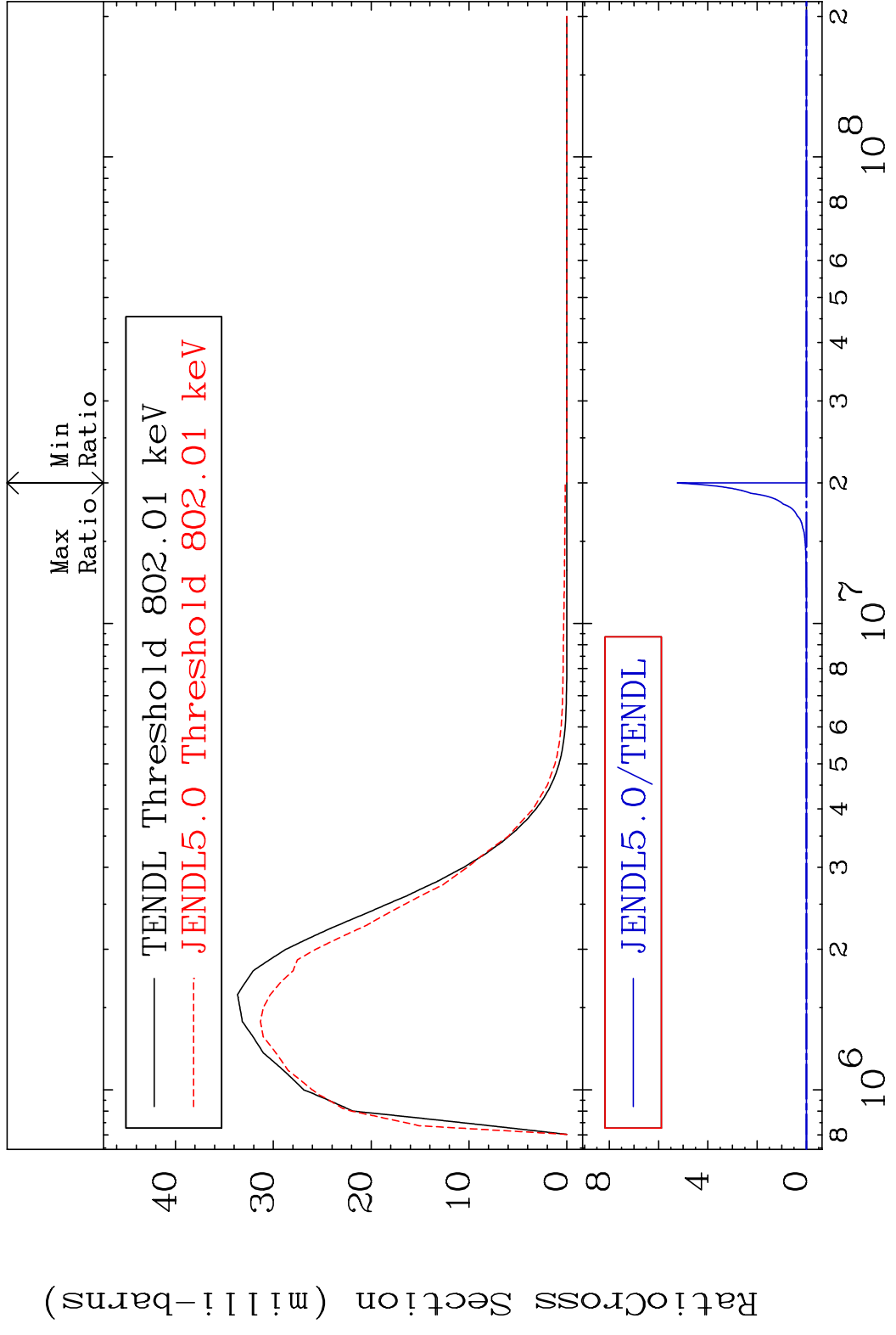
MAT 5731 MT= 77 (n, n') Level 57-La-140  
 Cross Section -100.0 To 9999. %



39 Incident Energy (eV) 57-La-140

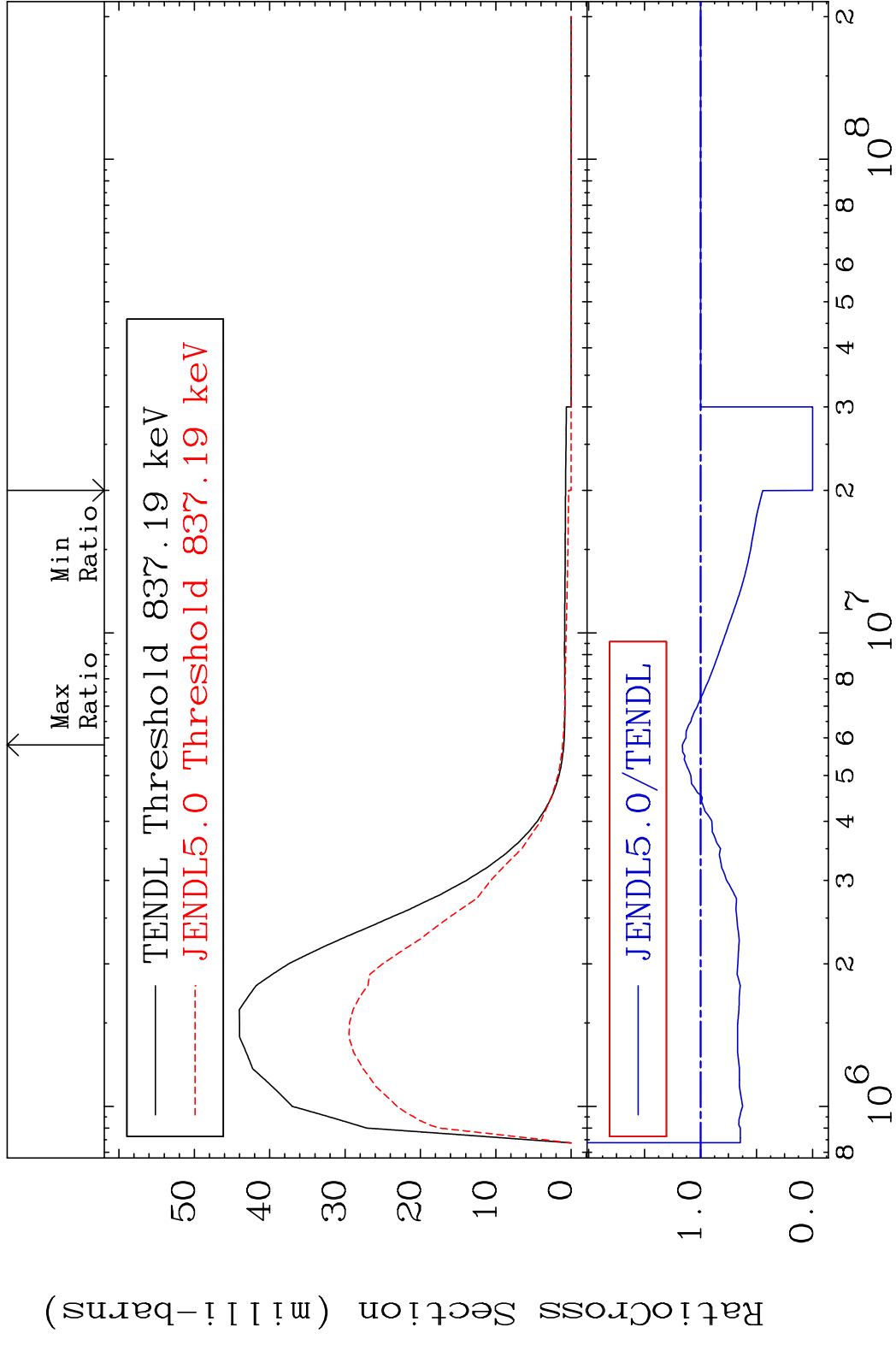


MAT 5731 MT= 78 (n, n') Level 57-La-140  
 Cross Section -100.0 To 9999. %

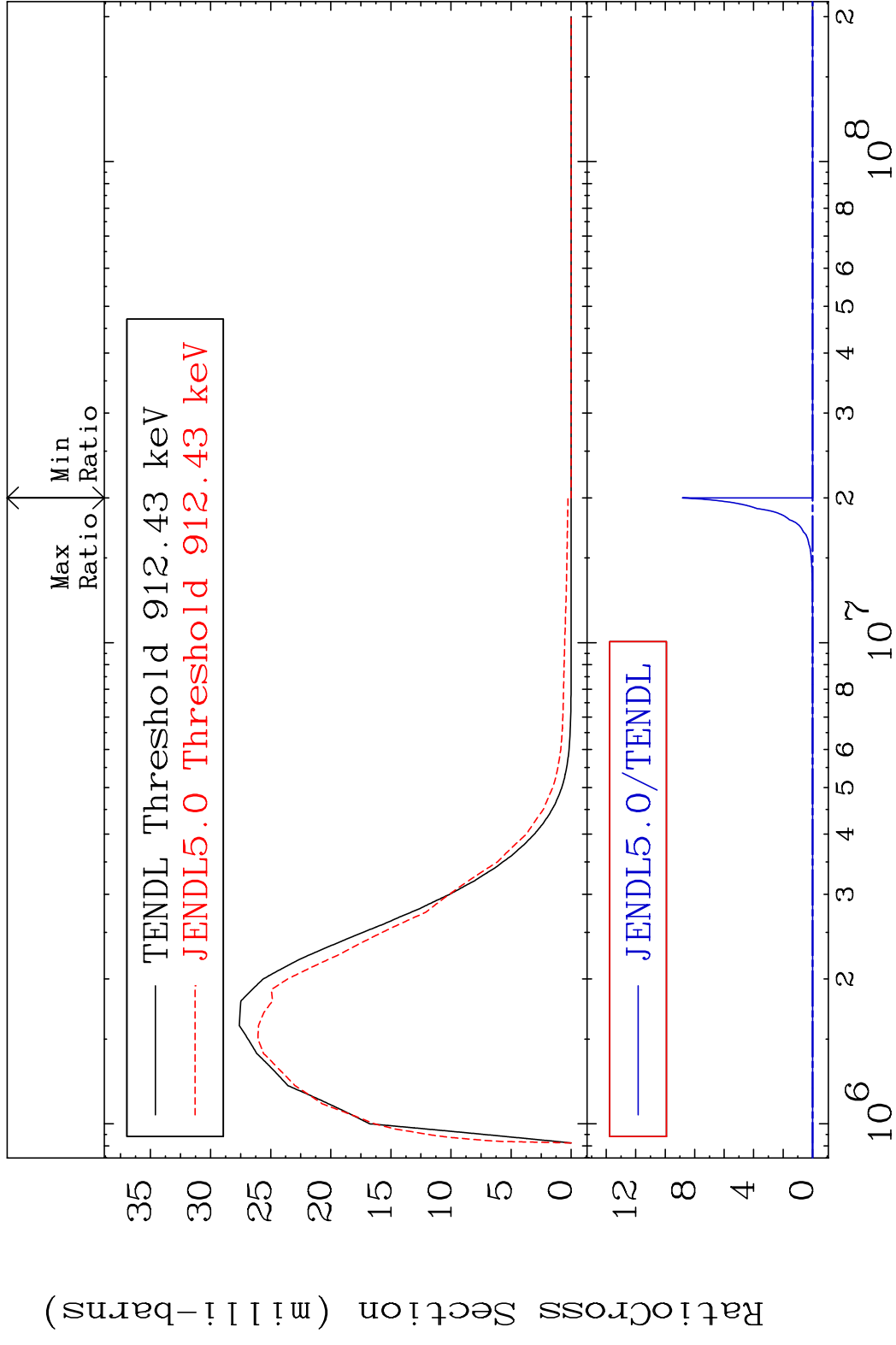


40 8 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup> 2 3 4 5 6 8 20 30 40 57-La-140

MAT 5731 MT= 79 (n, n') Level 57-La-140  
 Cross Section -100.0 To 16.27 %



MAT 5731 MT= 80 (n, n') Level 57-La-140  
 Cross Section -100.0 To 9999. %



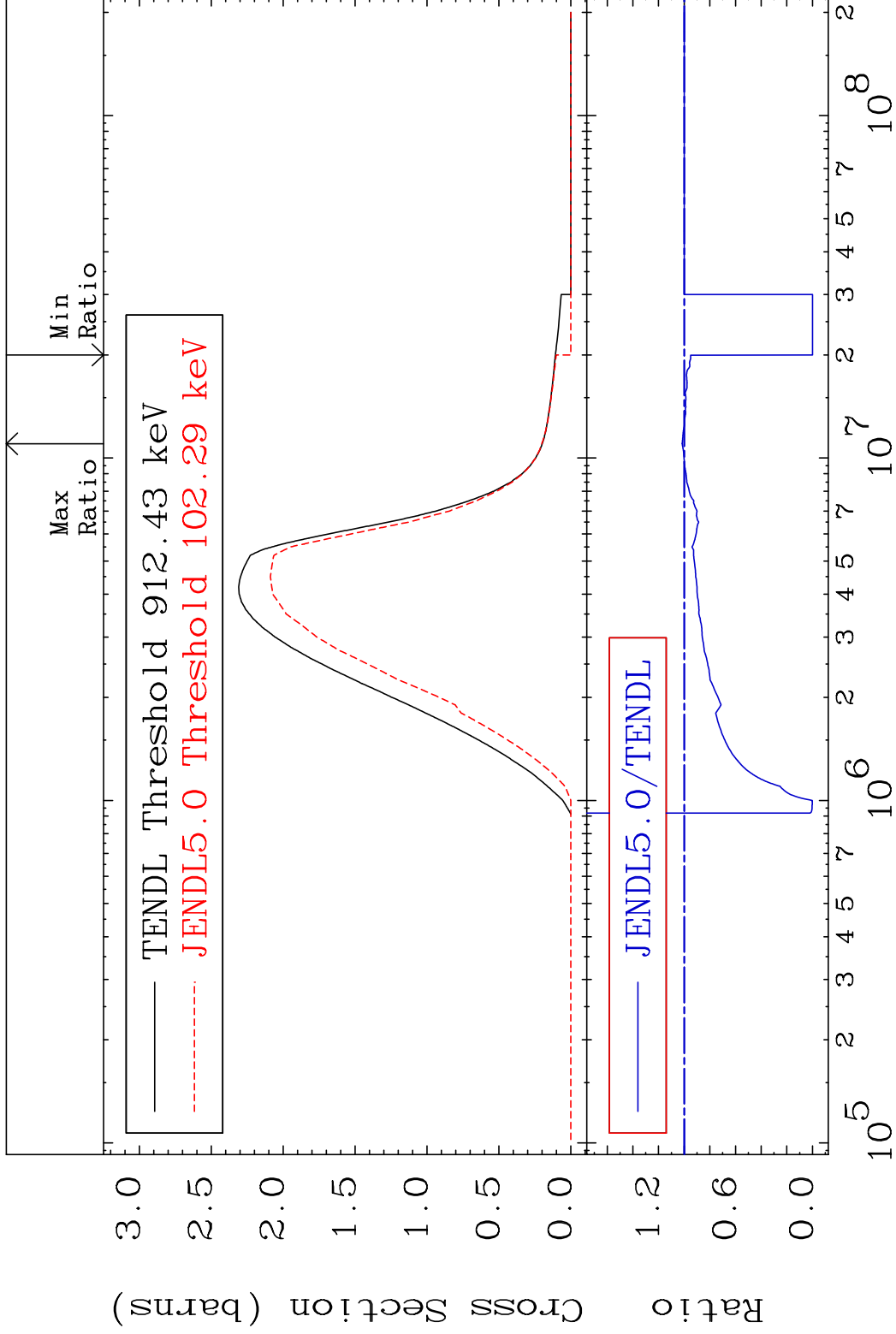
42 Incident Energy (eV) 57-La-140

MAT 5731

(n,n') Continuum

57-La-140

Cross Section -100.0 To 1.581 %



43

Incident Energy (eV)

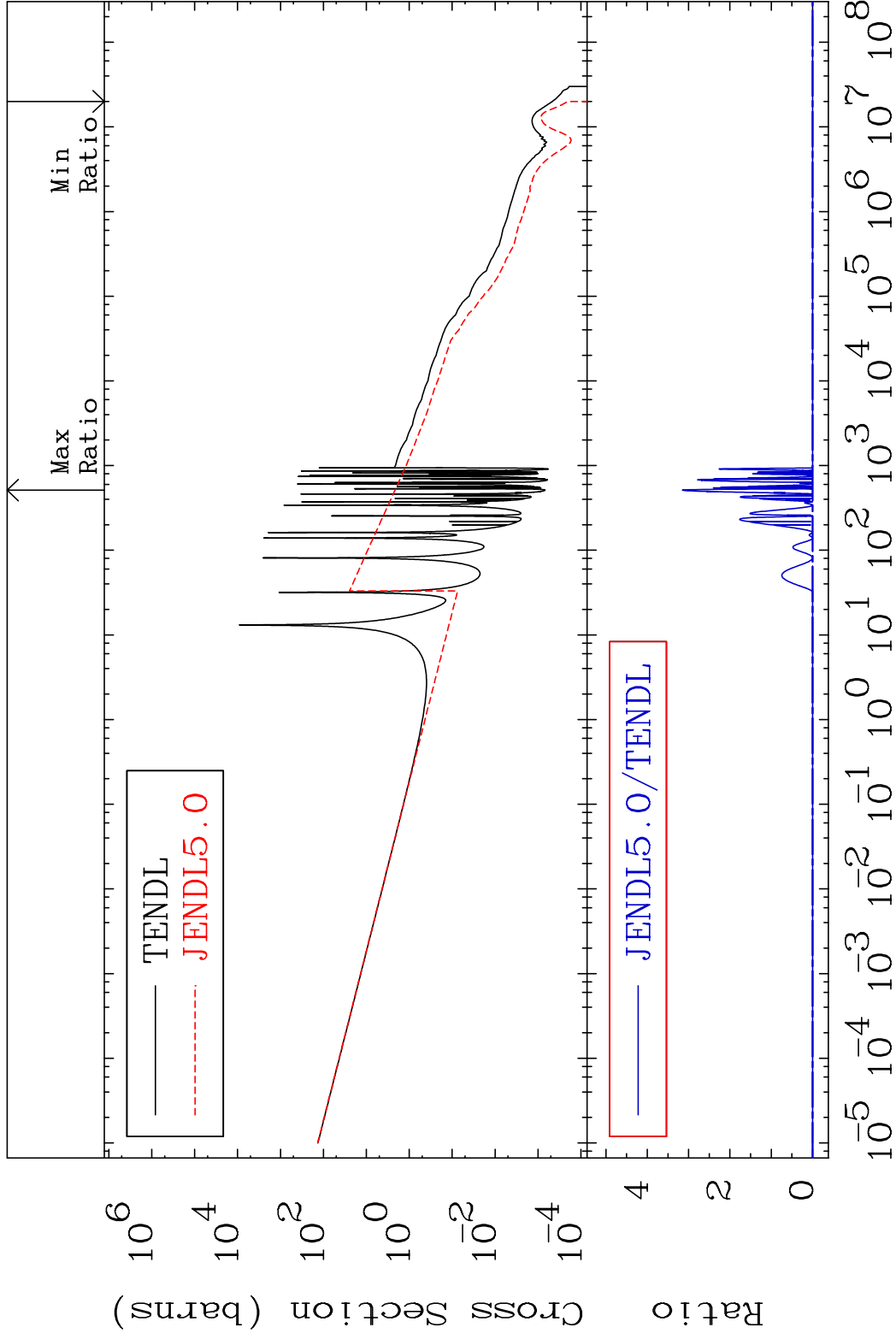
57-La-140

MAT 5731

(n,  $\gamma$ )

57-La-140

Cross Section -100.0 To 9999. %



44

Incident Energy (eV)

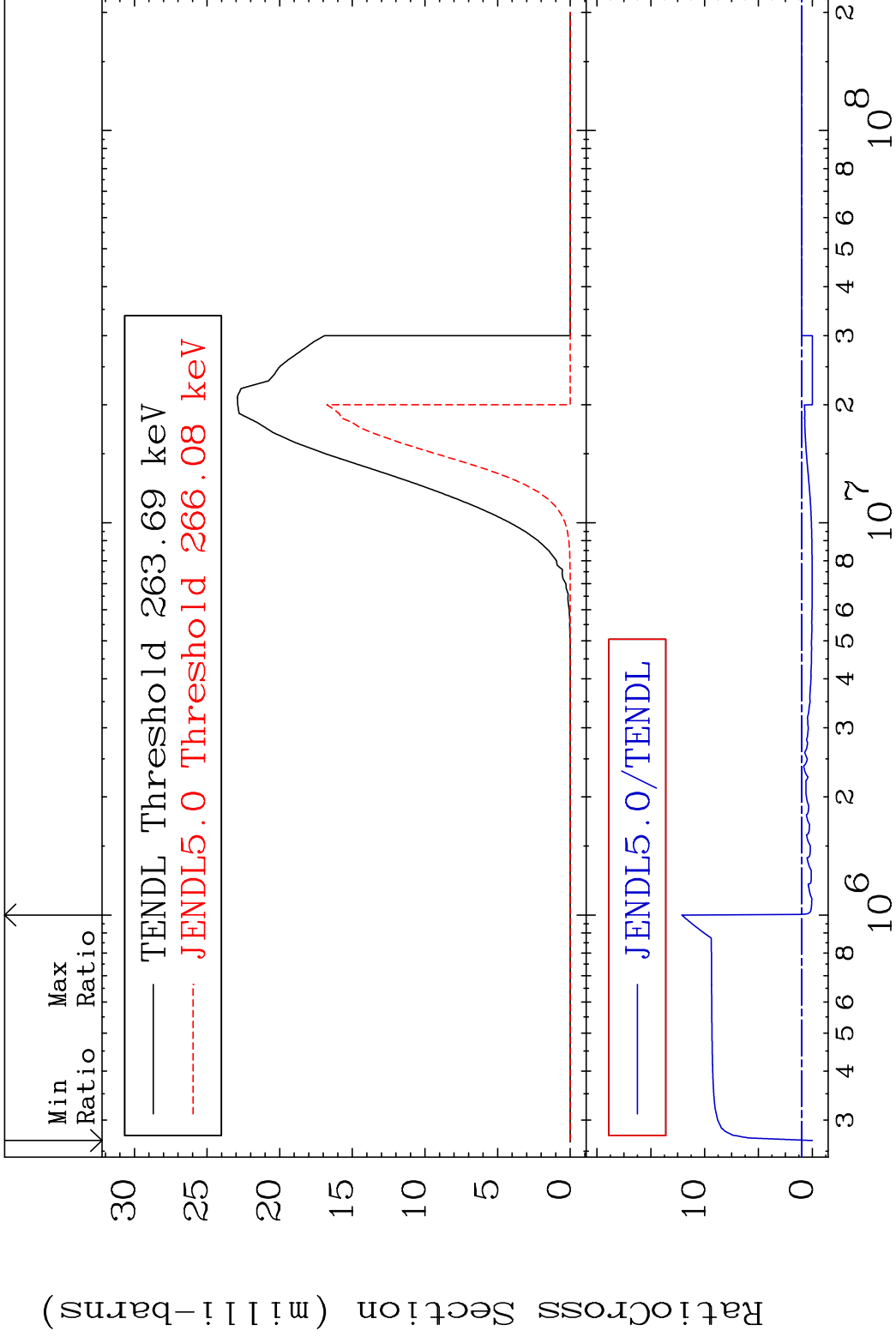
57-La-140

MAT 5731

(n,p)

57-La-140

Cross Section -100.0 To 1113. %



45

Incident Energy (eV)

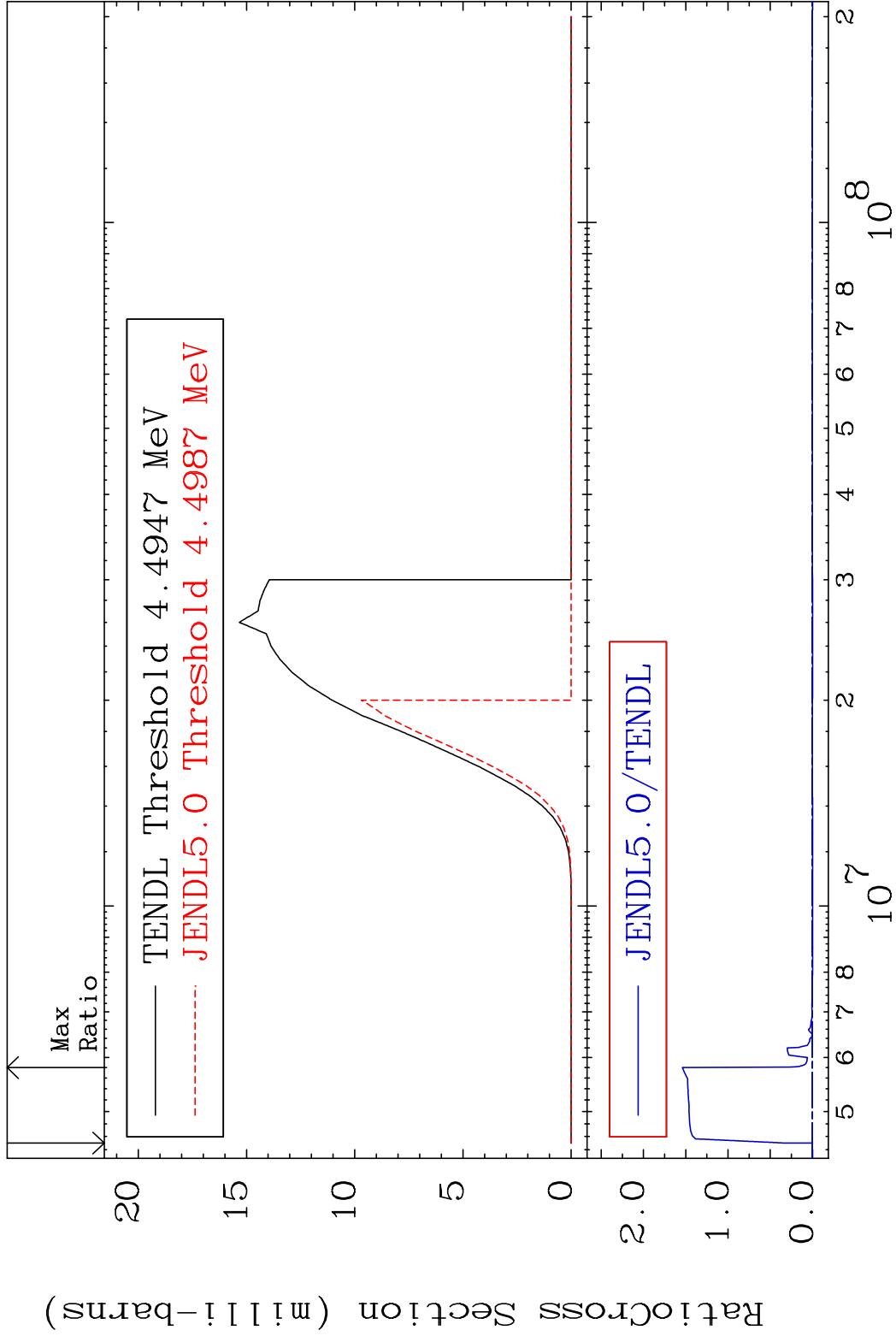
57-La-140

MAT 5731

(n,d)

57-La-140

Cross Section -100.0 To 9999. %



46

Incident Energy (eV)

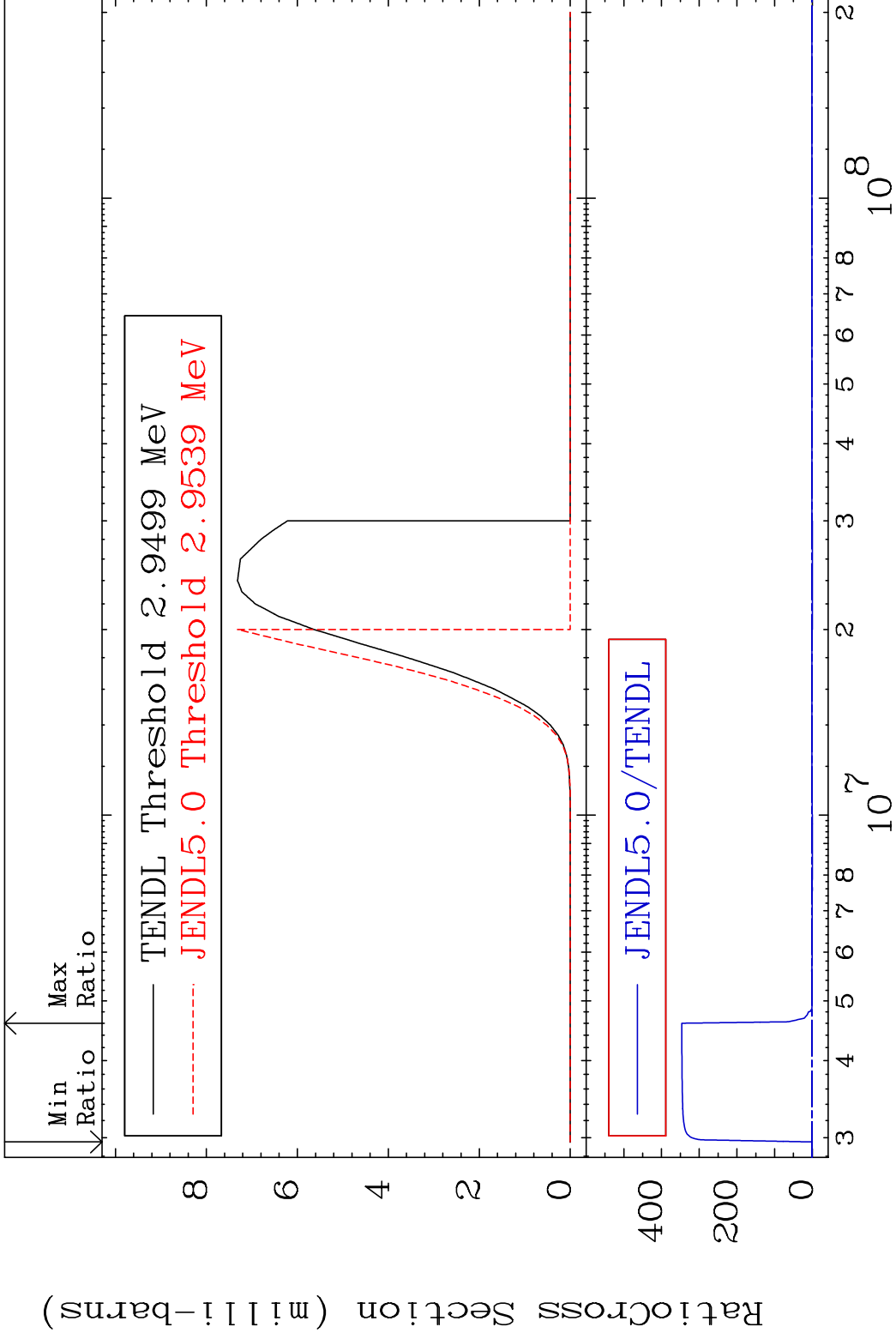
57-La-140

MAT 5731

(n, t)

57-La-140

Cross Section -100.0 To 9999. %



47

Incident Energy (eV)

57-La-140

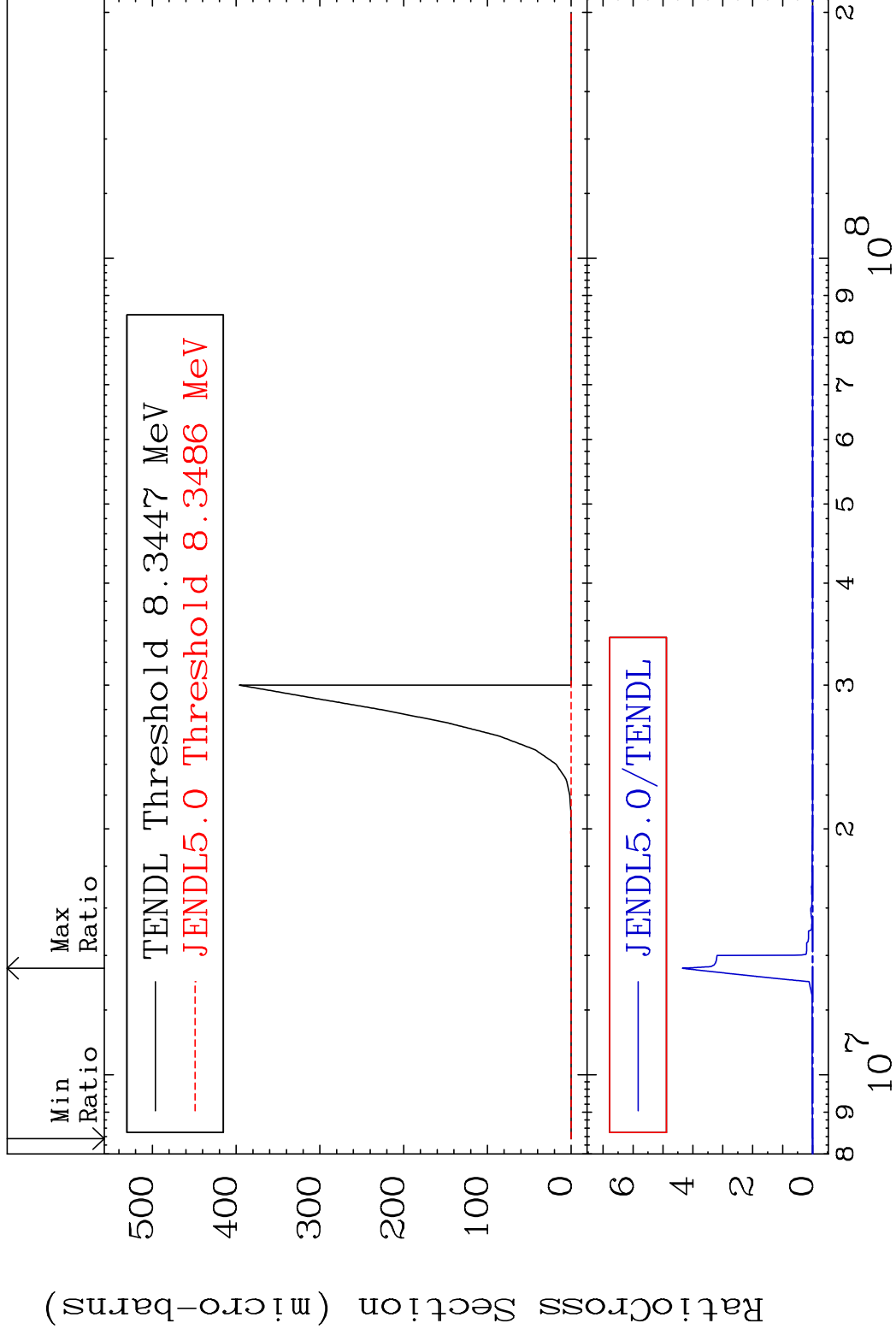


MAT 5731

(n, He-3)

57-La-140

Cross Section -100.0 To 9999. %



48

Incident Energy (eV)

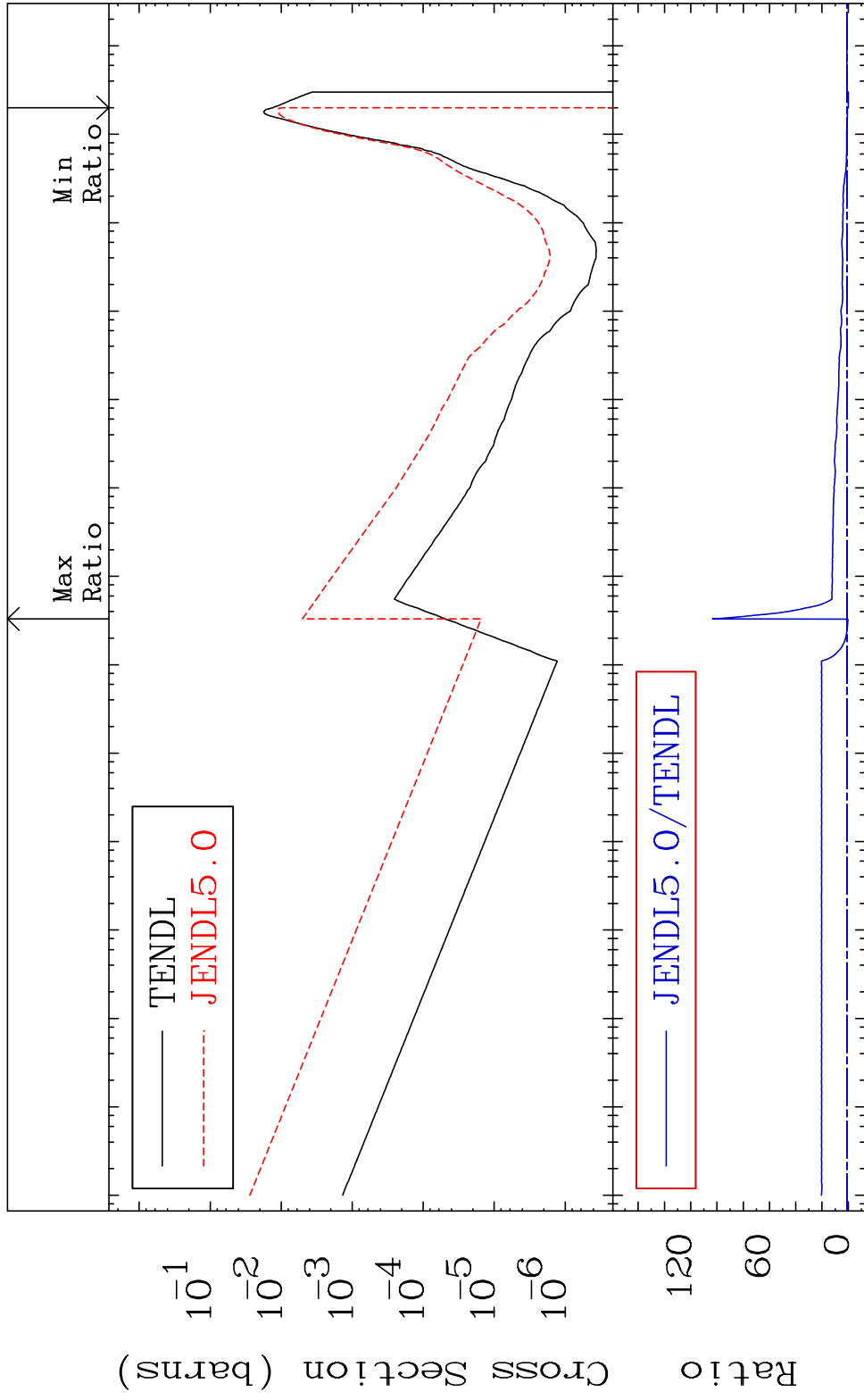
57-La-140

MAT 5731

(n,  $\alpha$ )

57-La-140

Cross Section -100.0 To 9999. %



49

Incident Energy (eV)

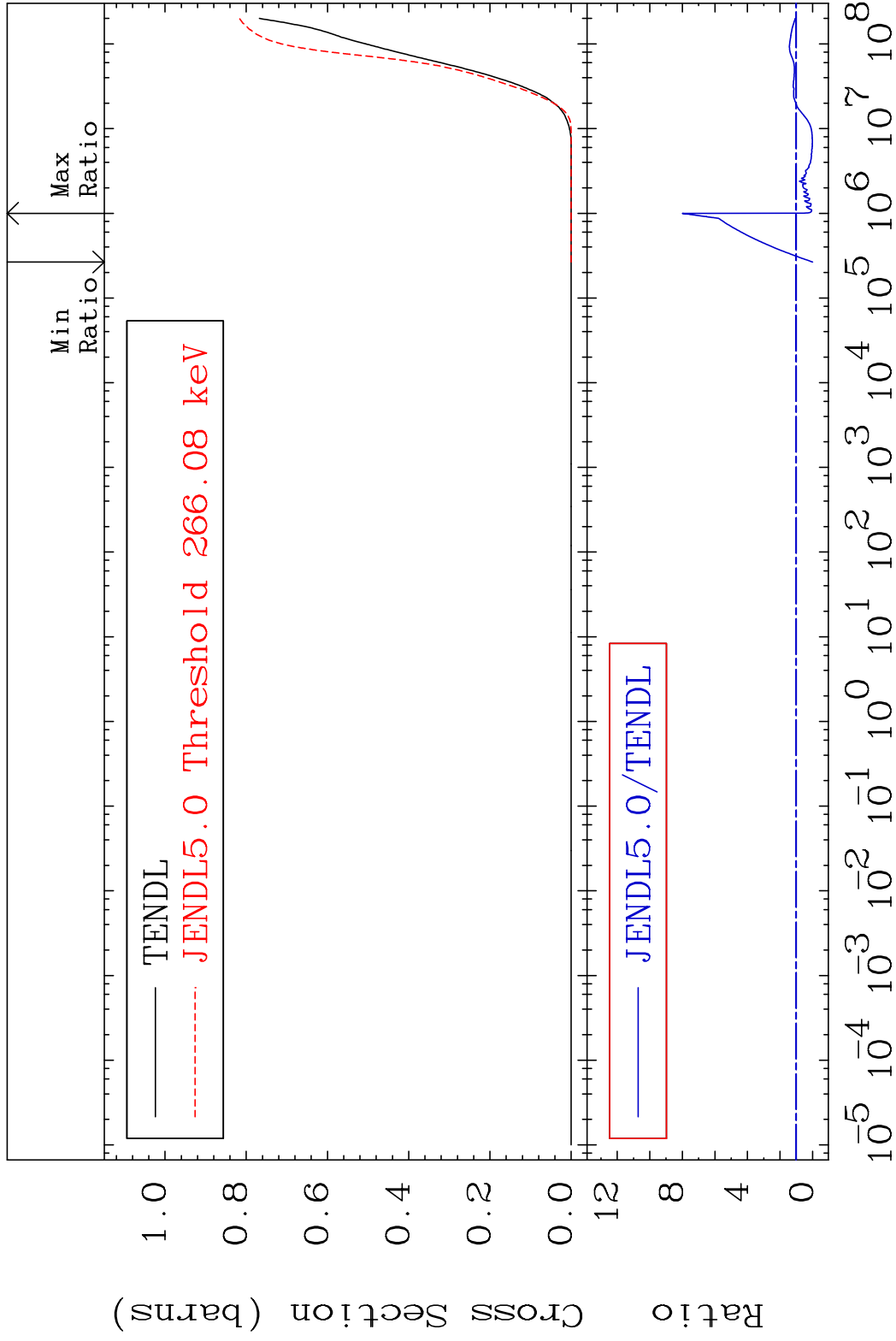
57-La-140

MAT 5731

Hydrogen Production

57-La-140

Cross Section -100.0 To 699.9 %



50

Incident Energy (eV)

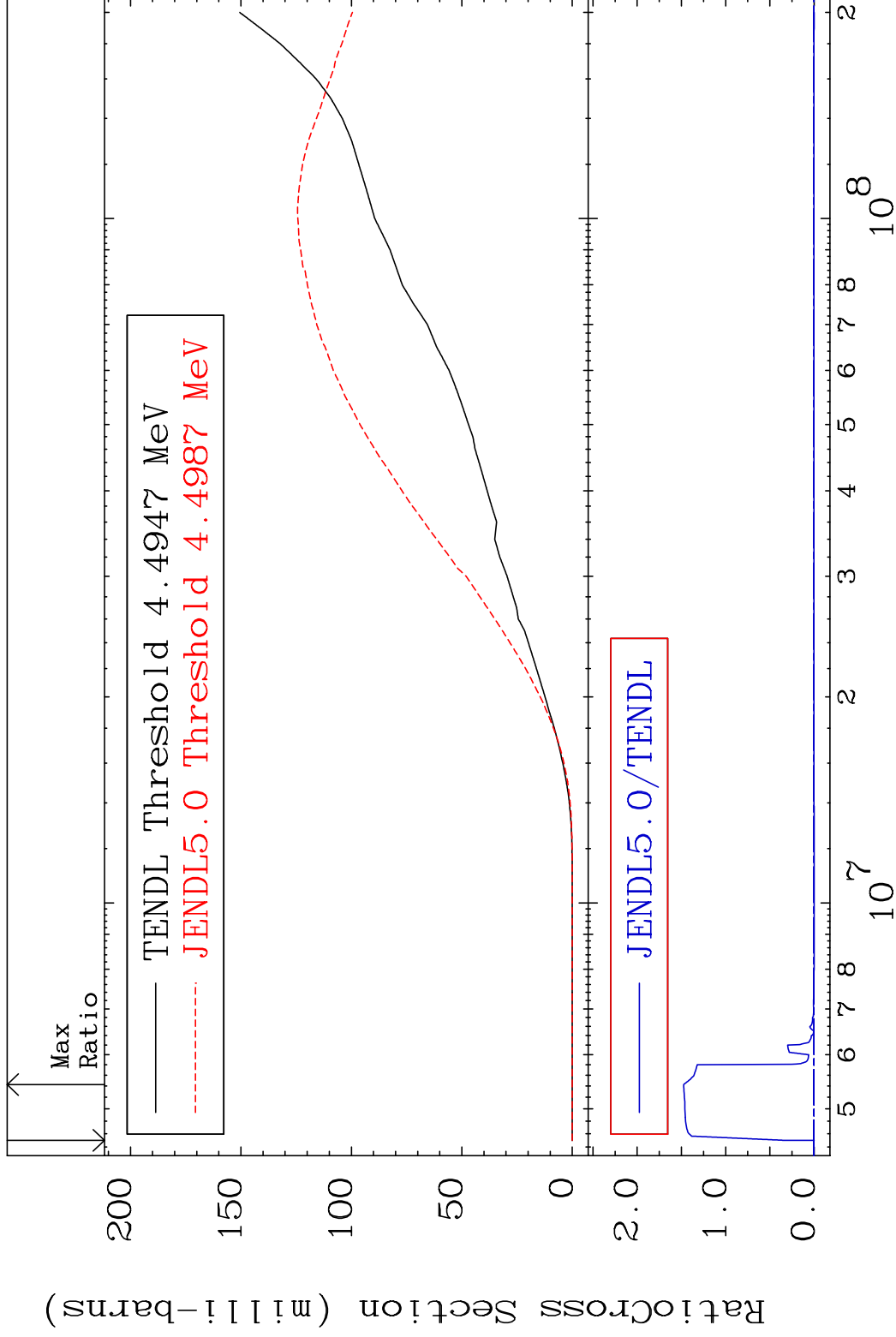
57-La-140

MAT 5731

Deuterium Production

57-La-140

Cross Section -100.0 To 9999. %

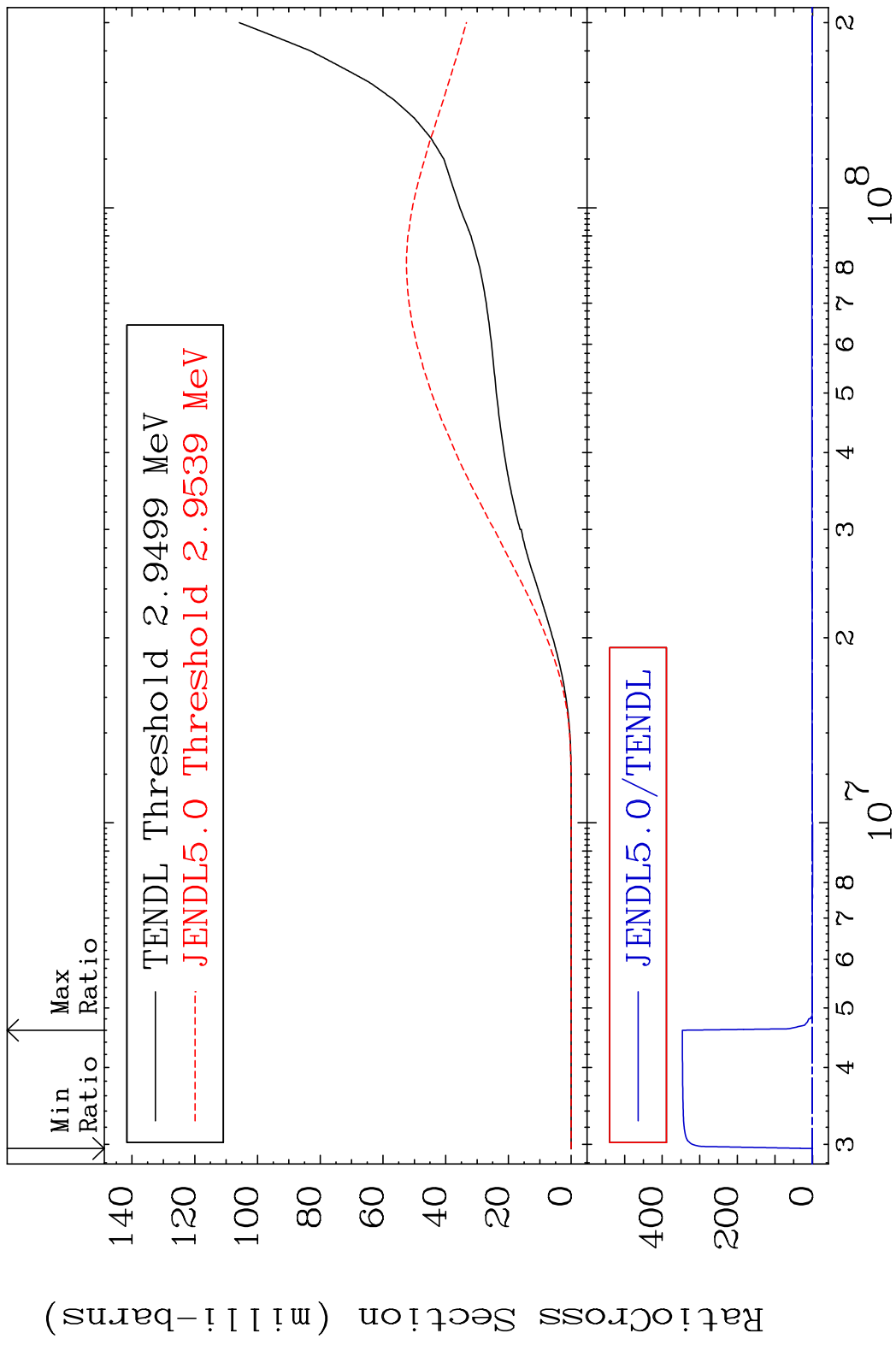


51

Incident Energy (eV)

57-La-140

MAT 5731 Tritium Production 57-La-140  
 Cross Section -100.0 To 9999. %

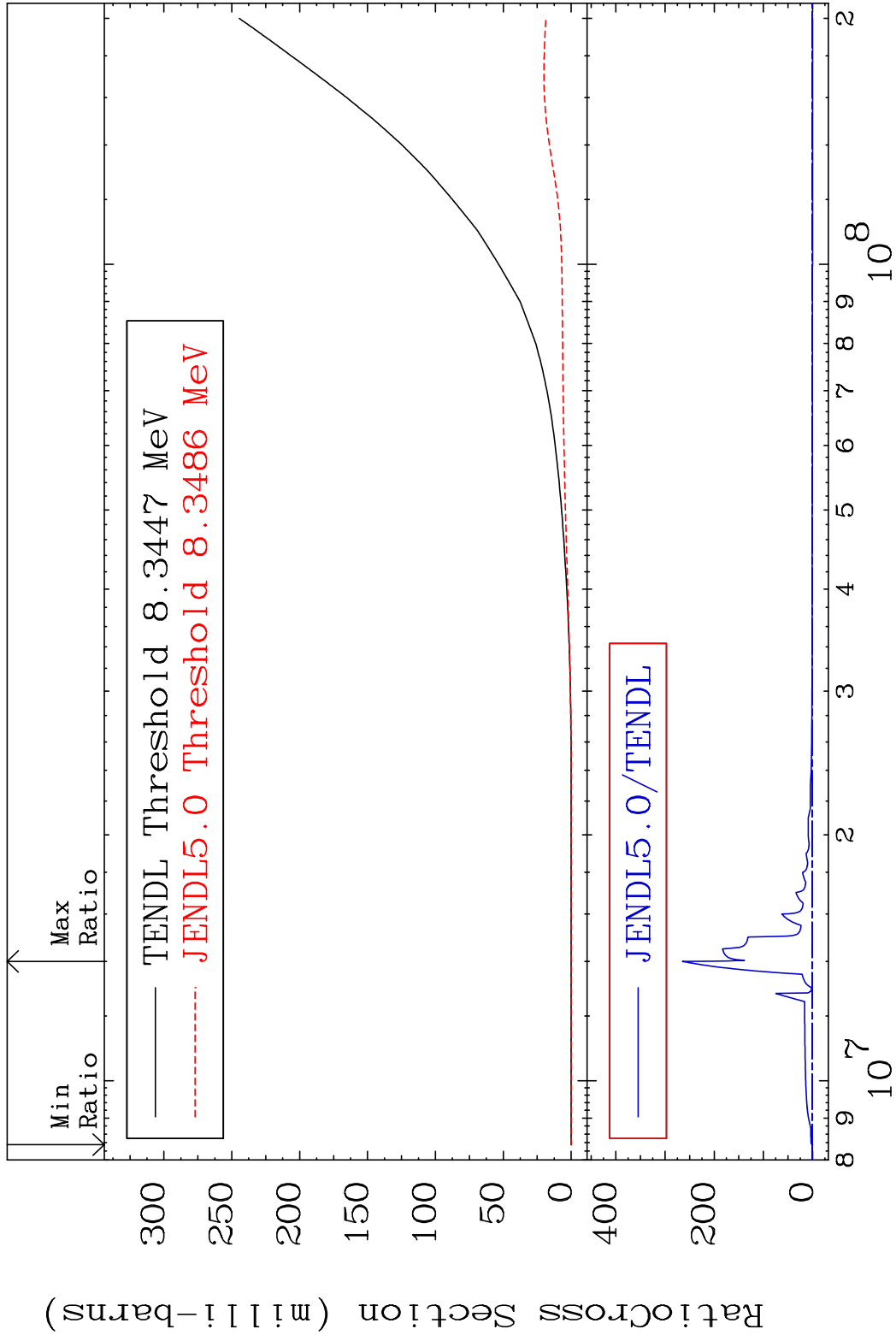


MAT 5731

He-3 Production

57-La-140

Cross Section -100.0 To 9999. %



53

Incident Energy (eV)

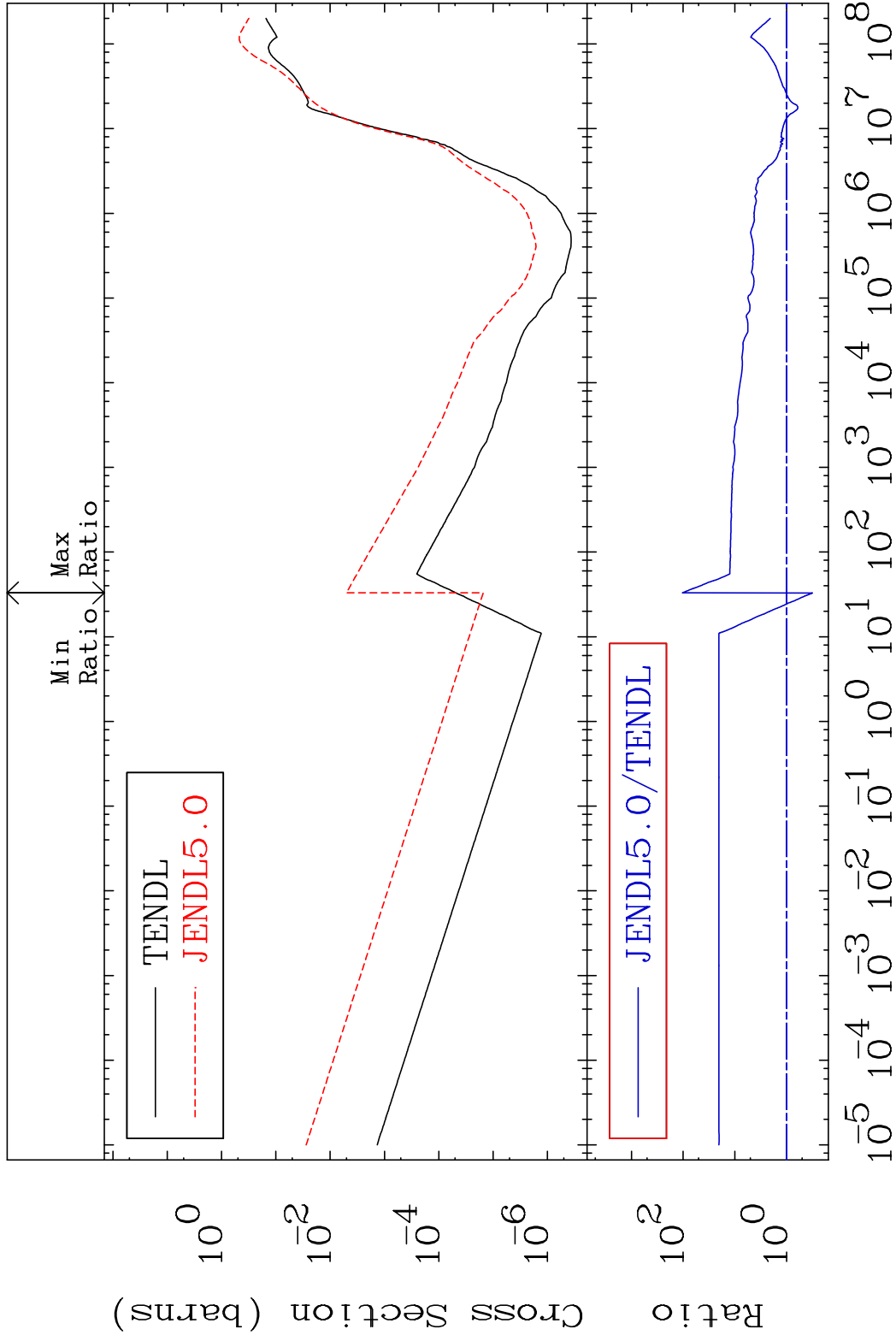
57-La-140

MAT 5731

He-4 Production

57-La-140

Cross Section -68.64 To 9999. %

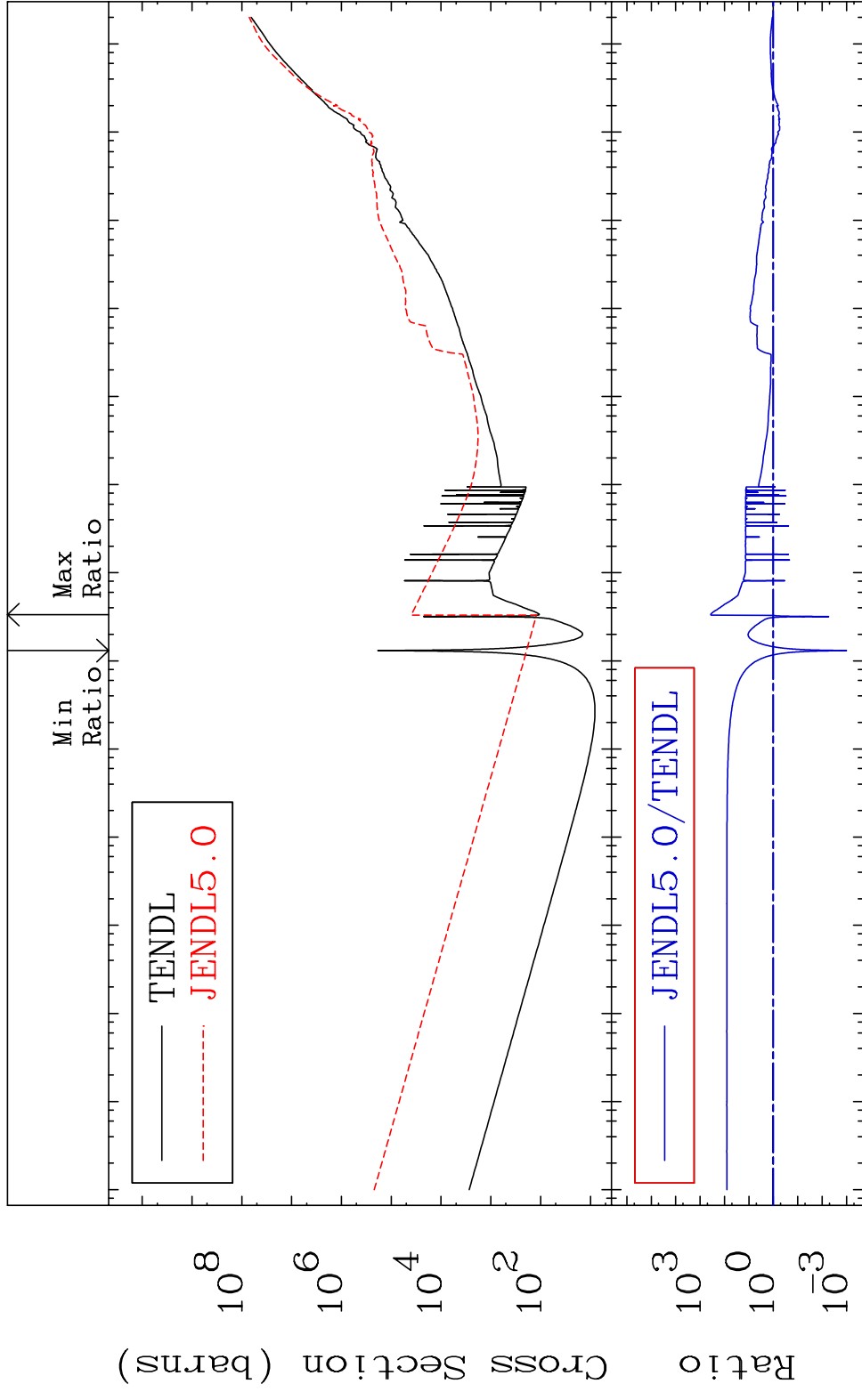


54

Incident Energy (eV)

57-La-140

MAT 5731 Kerma total (eV-barns) 57-La-140  
 Cross Section -99.90 To 9999. %



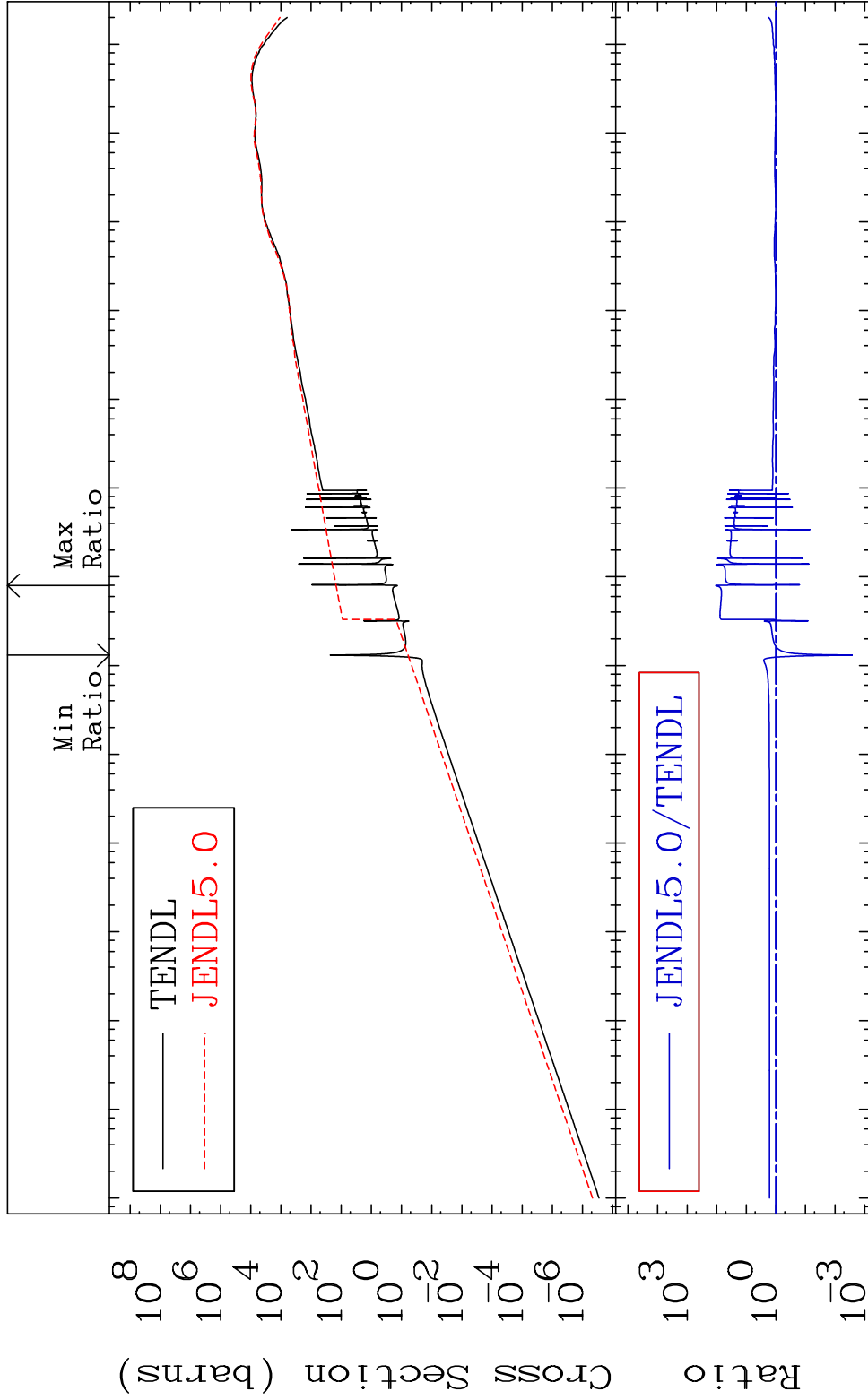


MAT 5731

Kerma elastic  
Cross Section

57-La-140

-99.74 To 9999. %

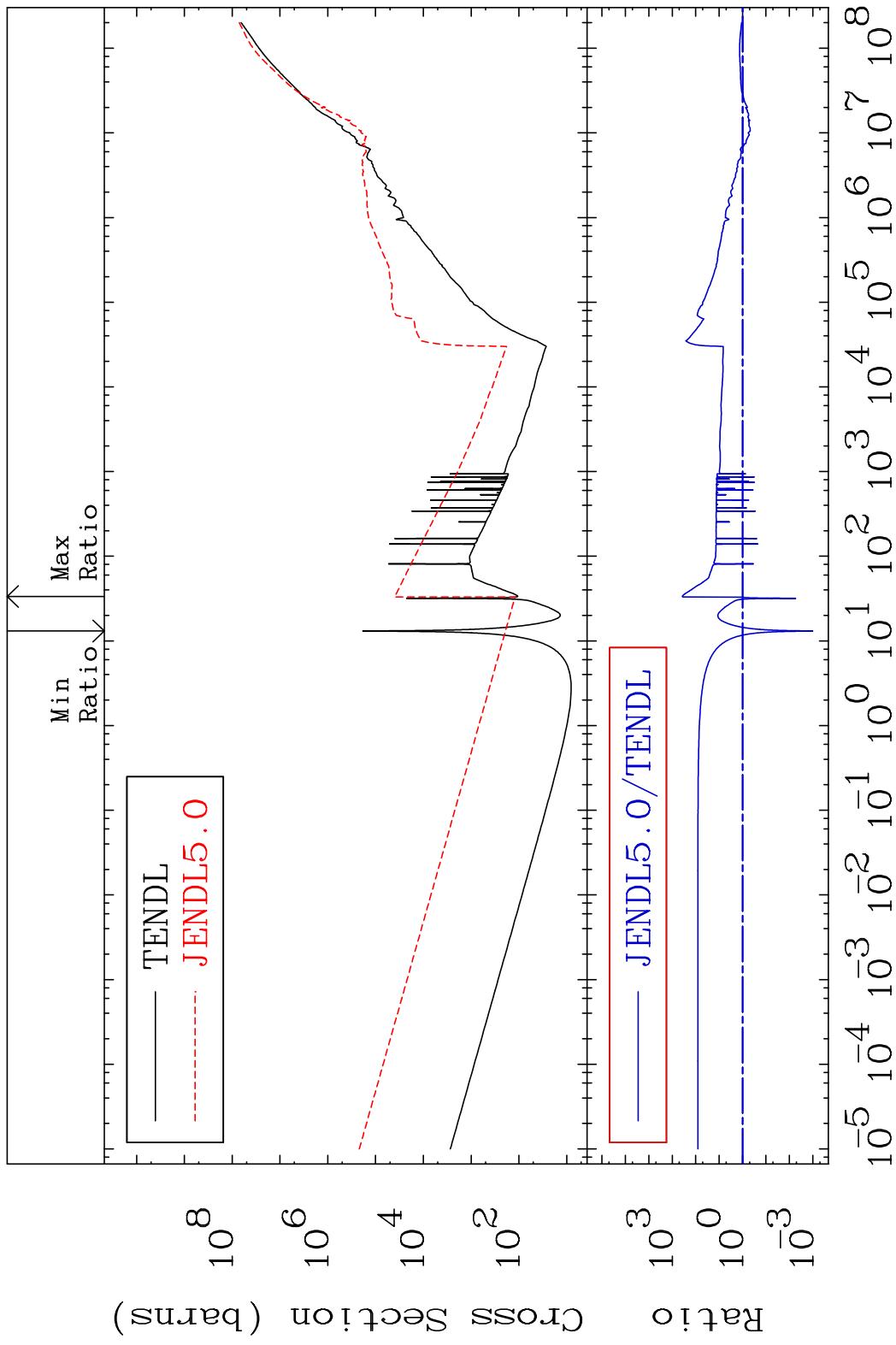


56

Incident Energy (eV)

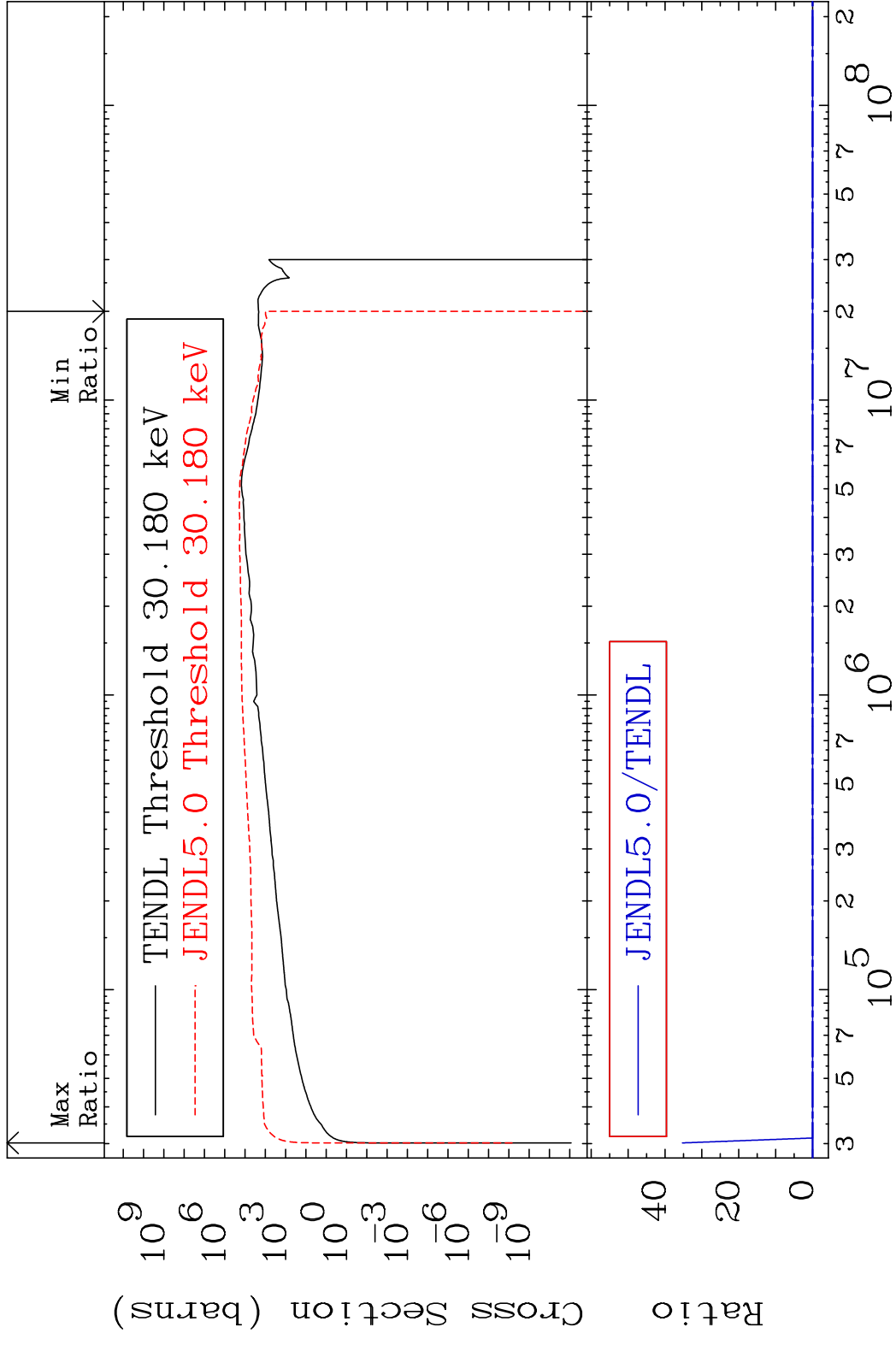
57-La-140

MAT 5731 Kerma non-elastic (all but mt2) 57-La-140  
 Cross Section -99.90 To 9999. %

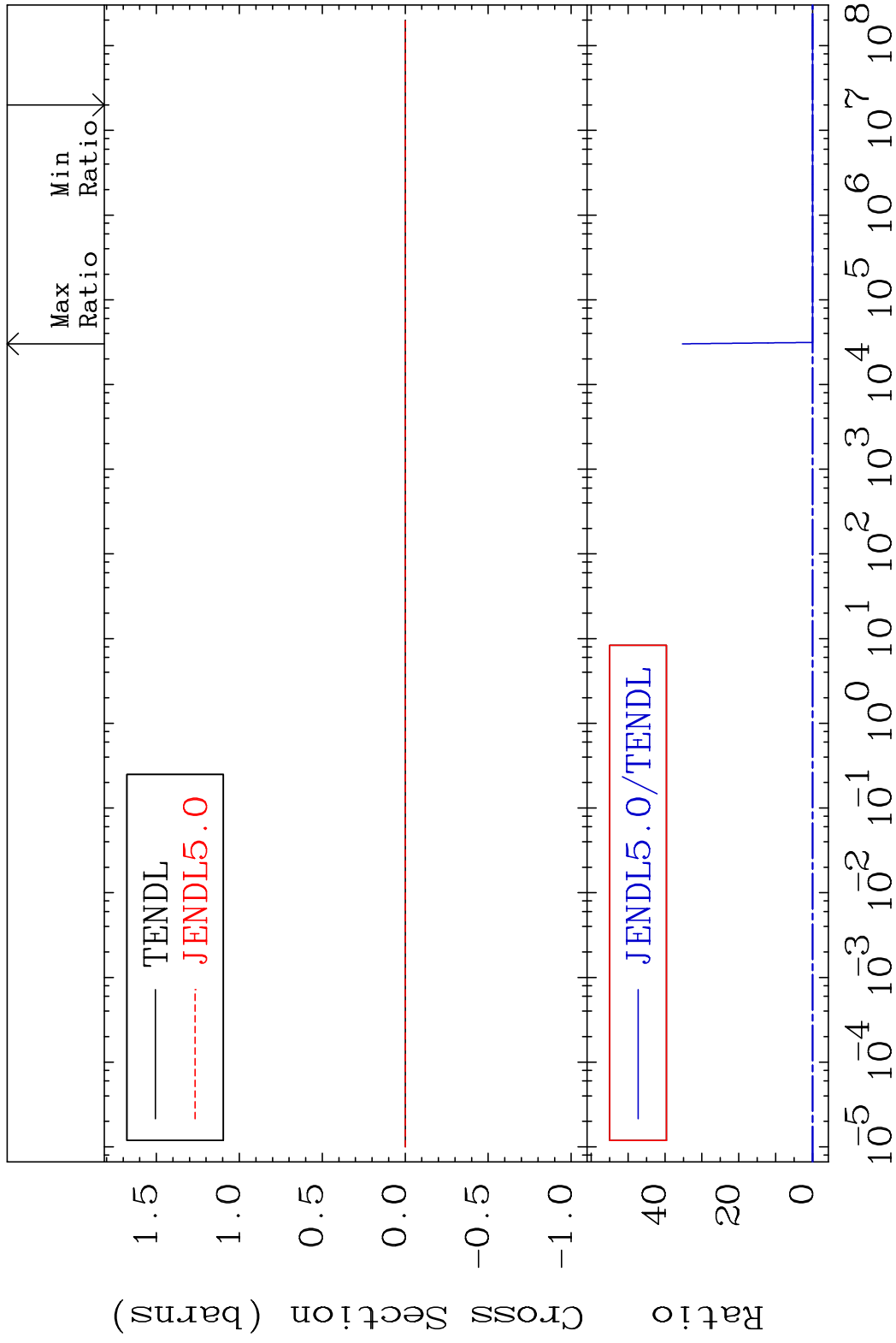


57 Incident Energy (eV) 57-La-140

MAT 5731 Kerma inelastic (mt51-91) 57-La-140  
 Cross Section -100.0 To 9999. %

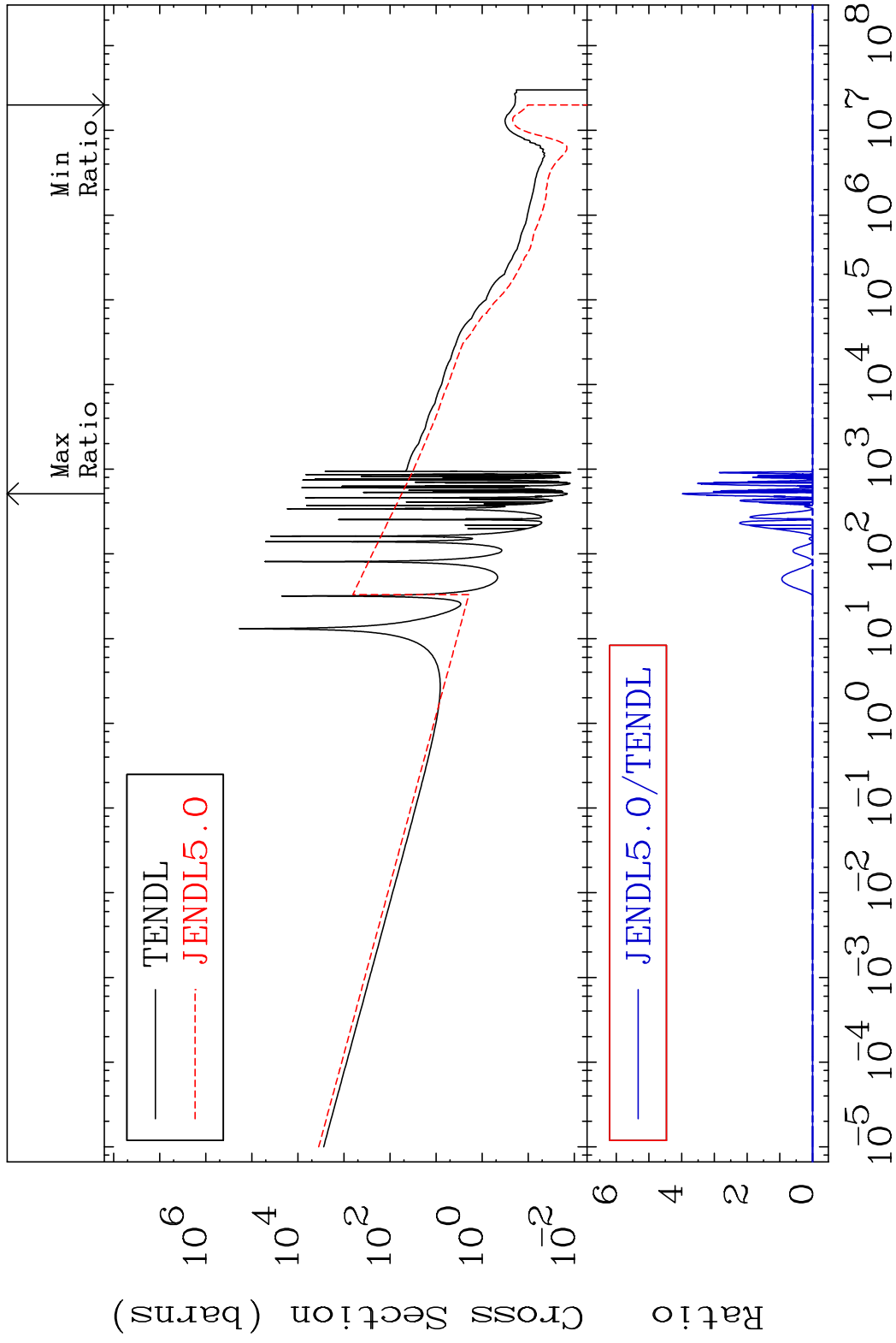


MAT 5731 Kerma fission (mt18 or mt19-20-21-38) 57-La-140  
 Cross Section -100.0 To 9999. %



MAT 5731

Kerma capture (mt102) 57-La-140  
Cross Section -100.0 To 9999. %

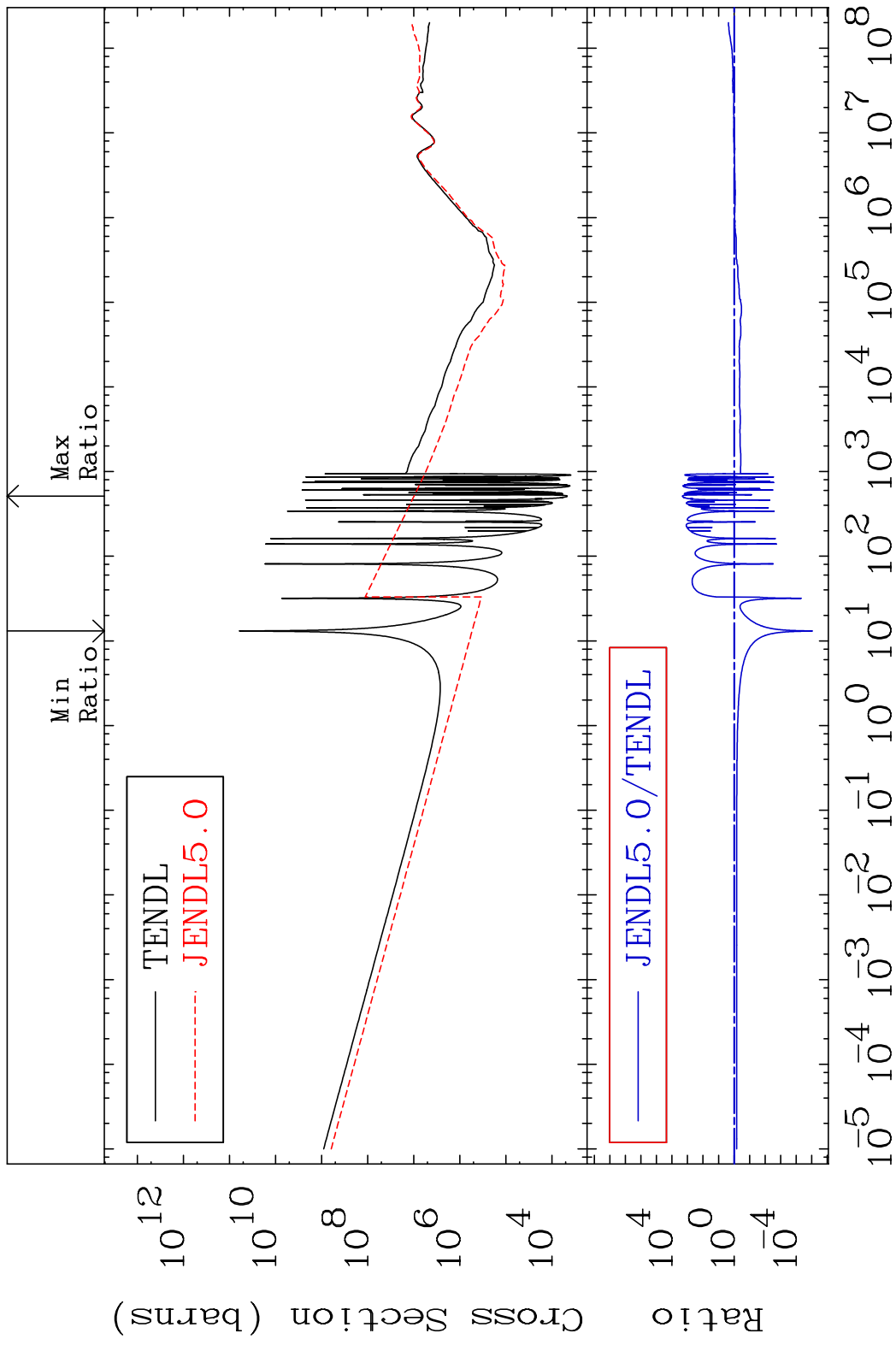


60

Incident Energy (eV)

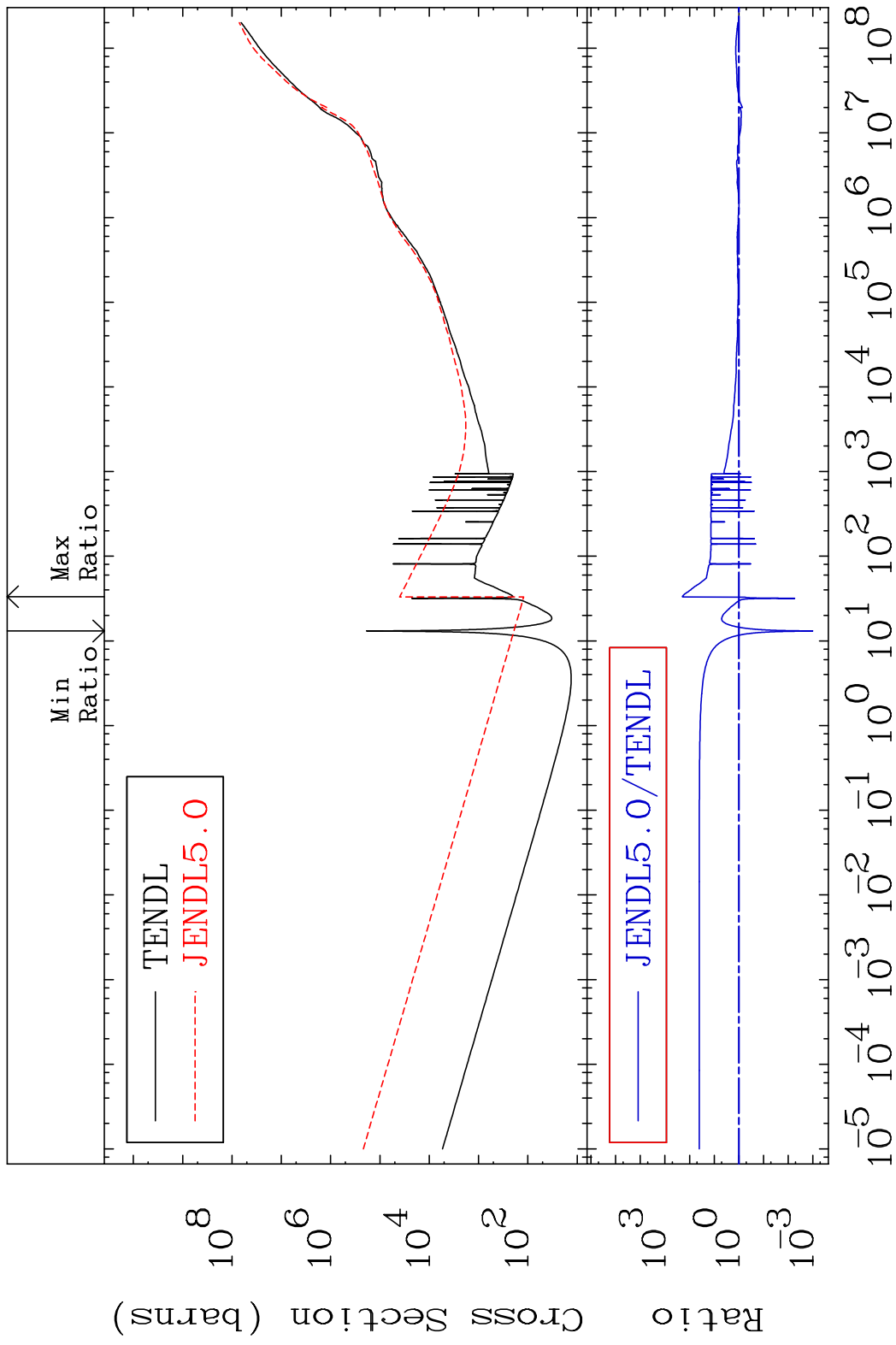
57-La-140

MAT 5731 Total photon (eV-barns) 57-La-140  
 Cross Section -100.0 To 9999. %



61 Incident Energy (eV) 57-La-140

MAT 5731 Total kinematic kerma (high limit) 57-La-140  
 Cross Section -99.90 To 9999. %

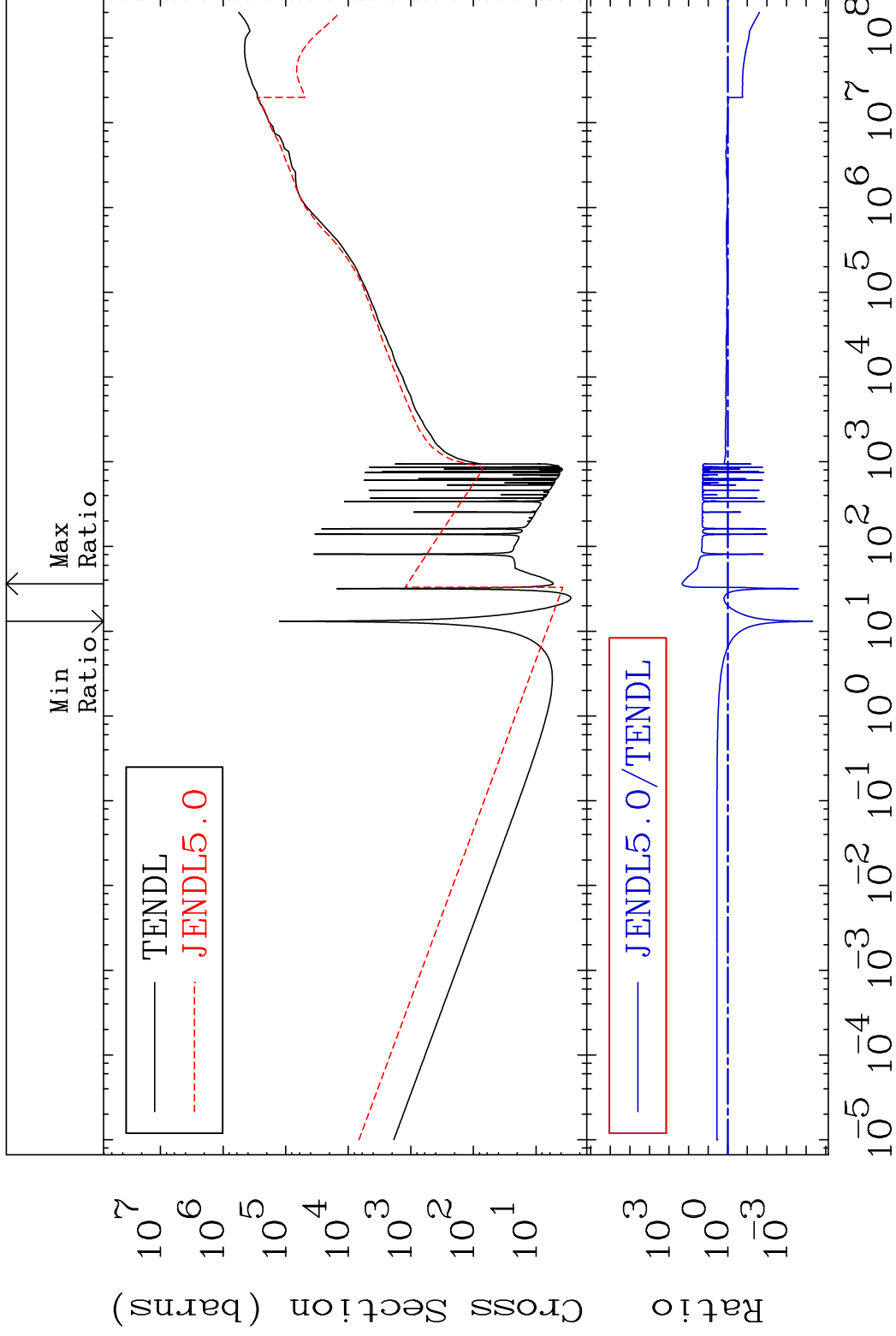


MAT 5731

Dpa total (eV-barns)

57-La-140

Cross Section -100.0 To 9999. %



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Incident Energy (eV)

57-La-140

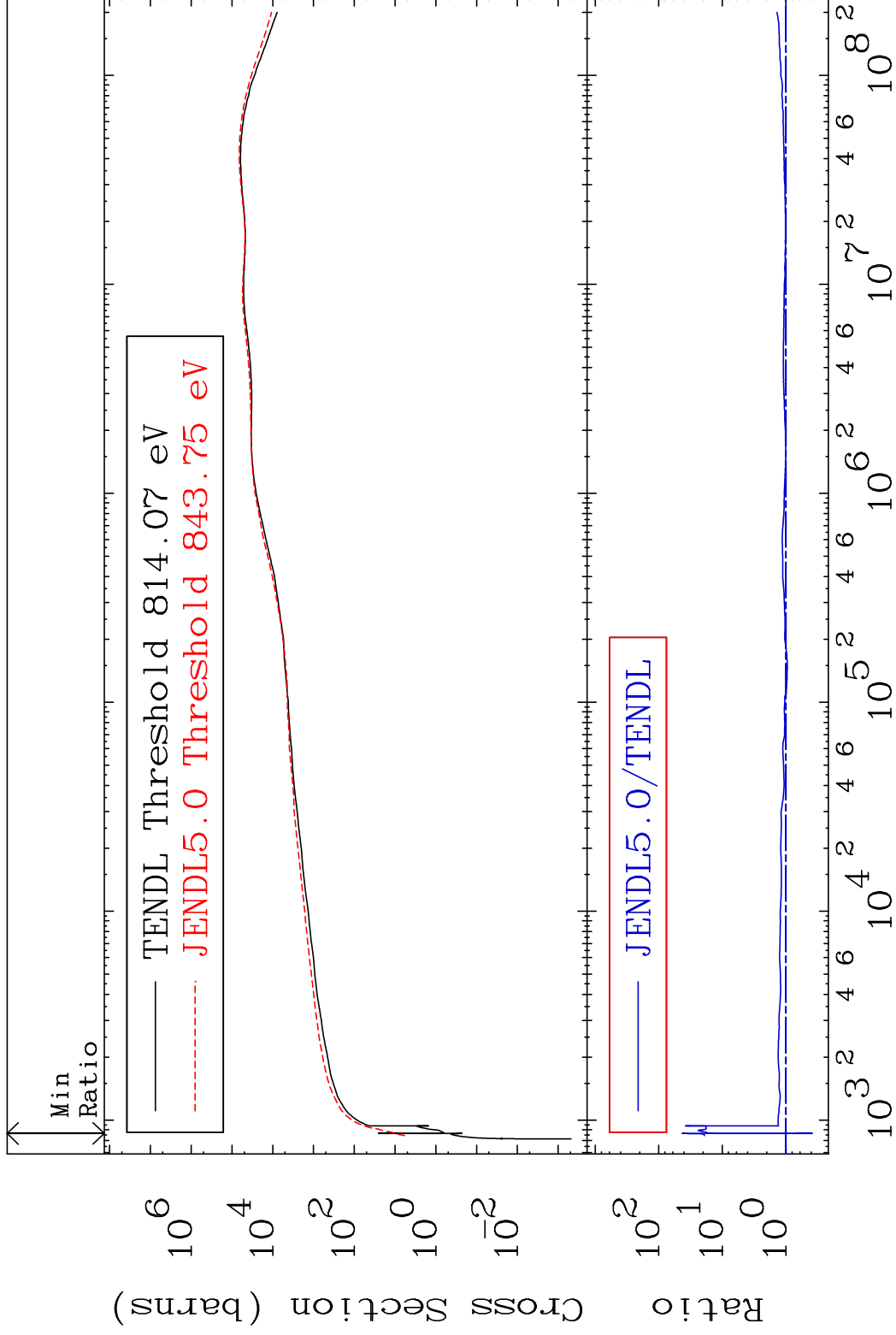


MAT 5731

Dpa elastic (mt2)

57-La-140

Cross Section -61.94 To 4156. %

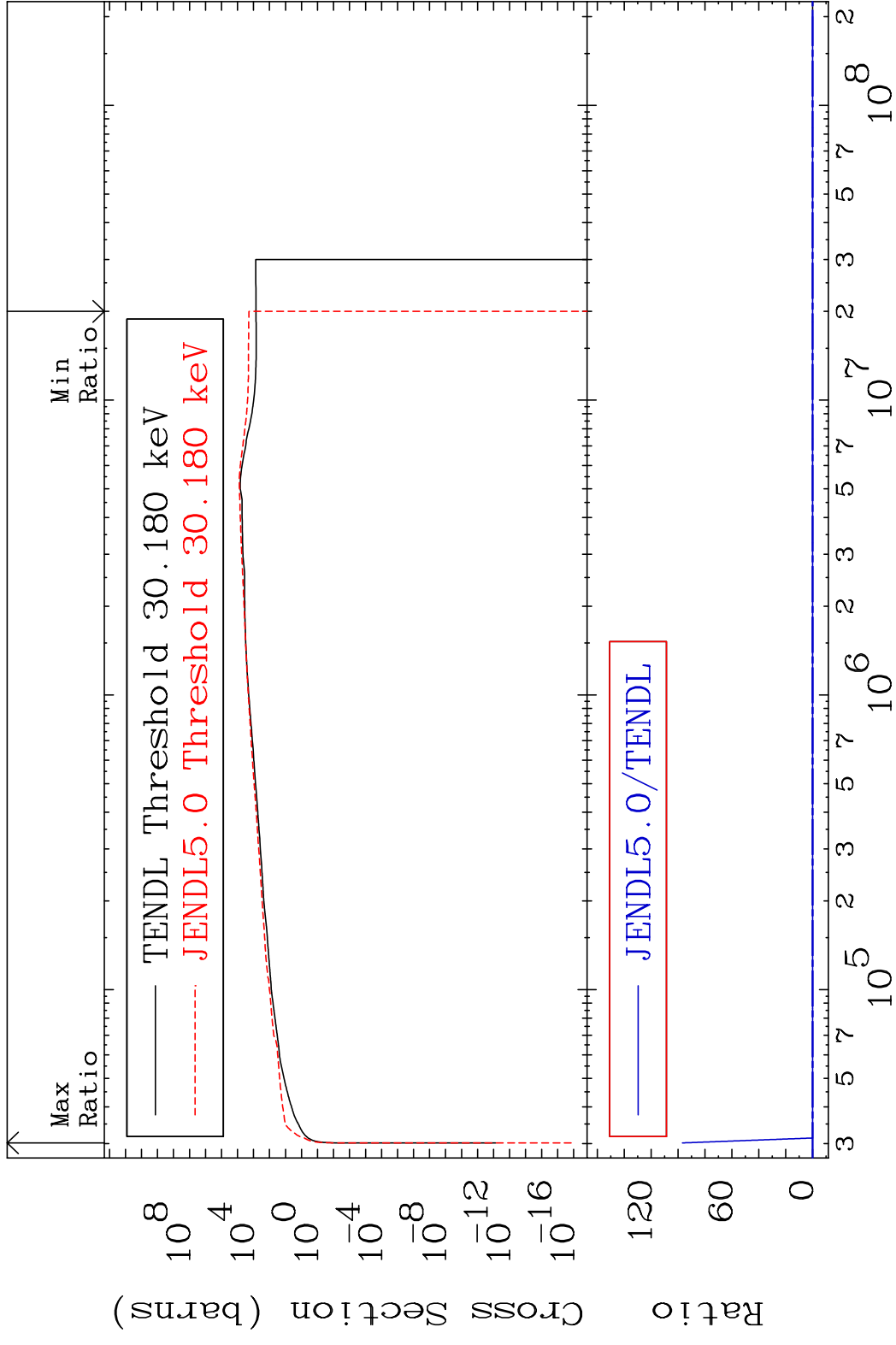


64

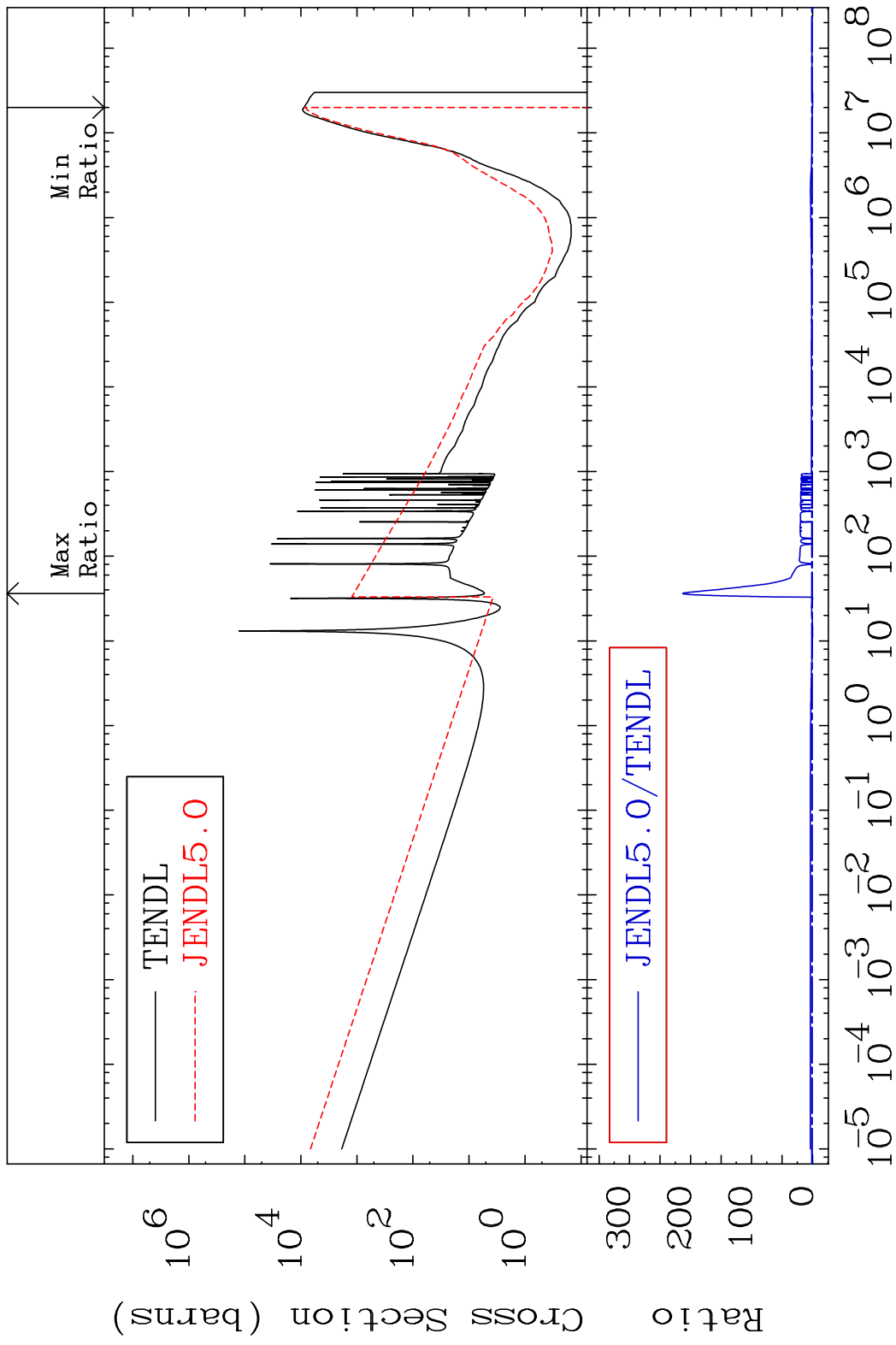
Incident Energy (eV)

57-La-140

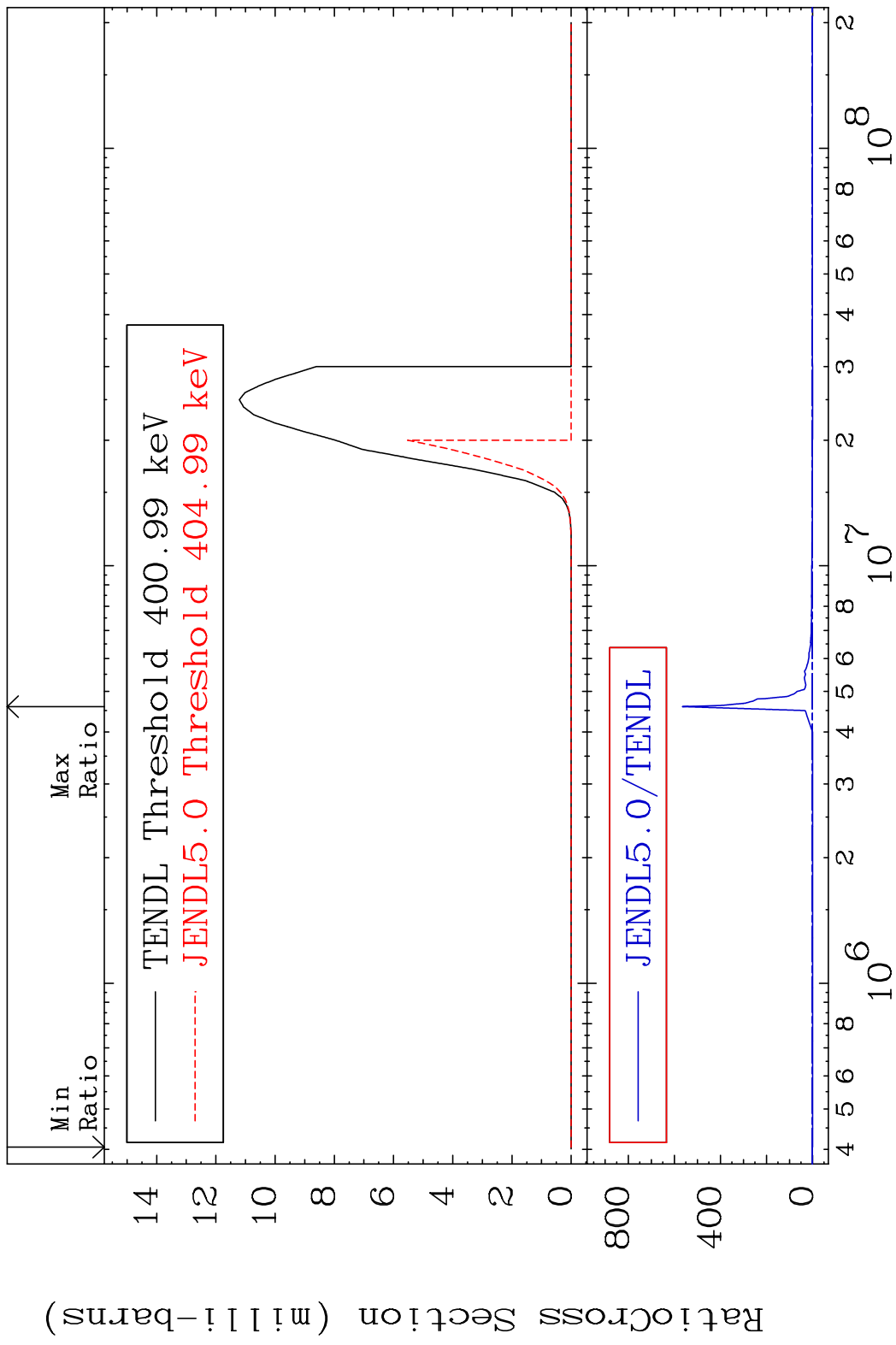
MAT 5731      Dpa inelastic (mt51-91)      57-La-140  
 Cross Section      -100.0 To 9999. %



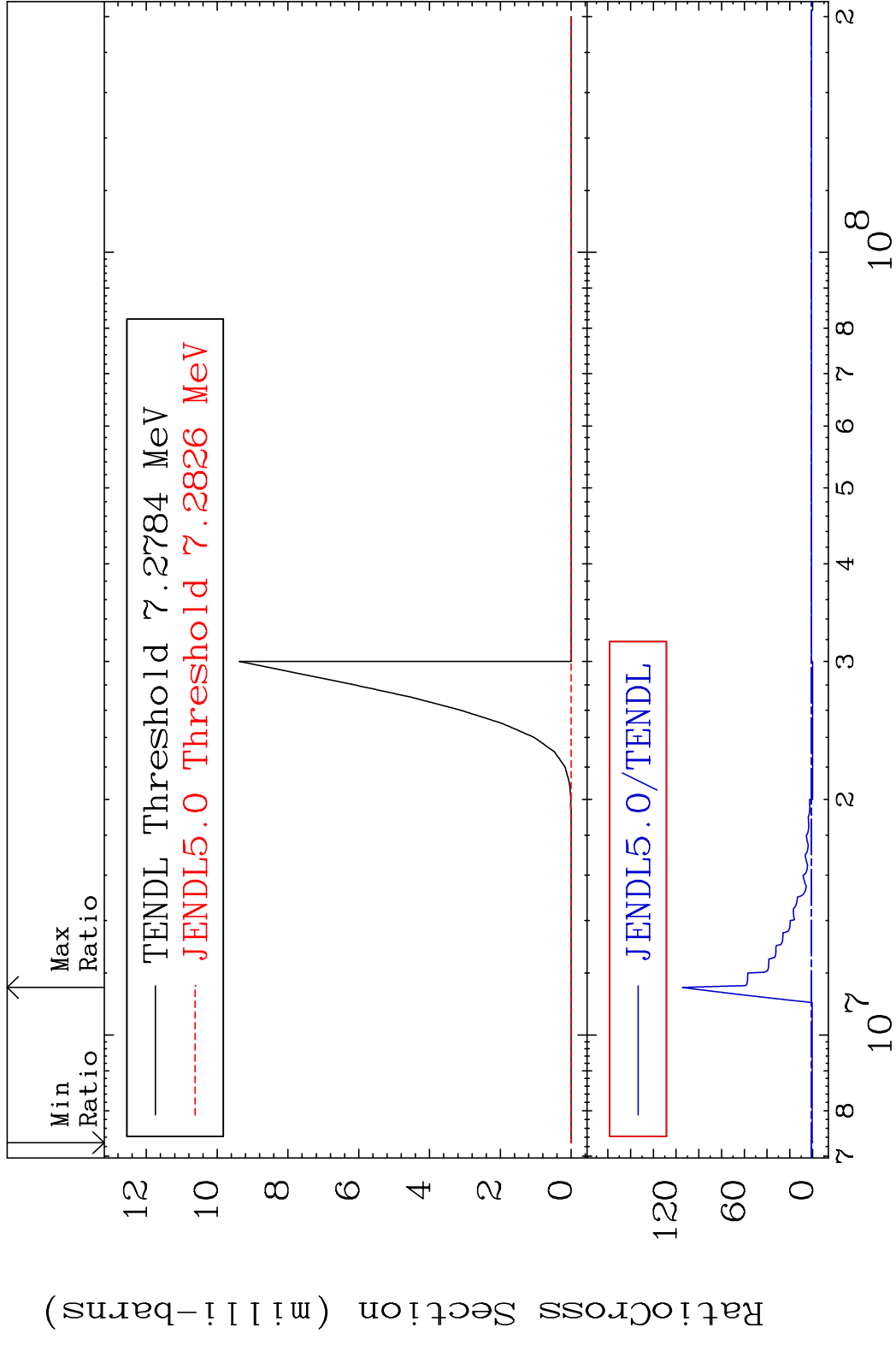
MAT 5731 Dpa disappearance (mt102 -120) 57-La-140  
 Cross Section -100.0 To 9999. %

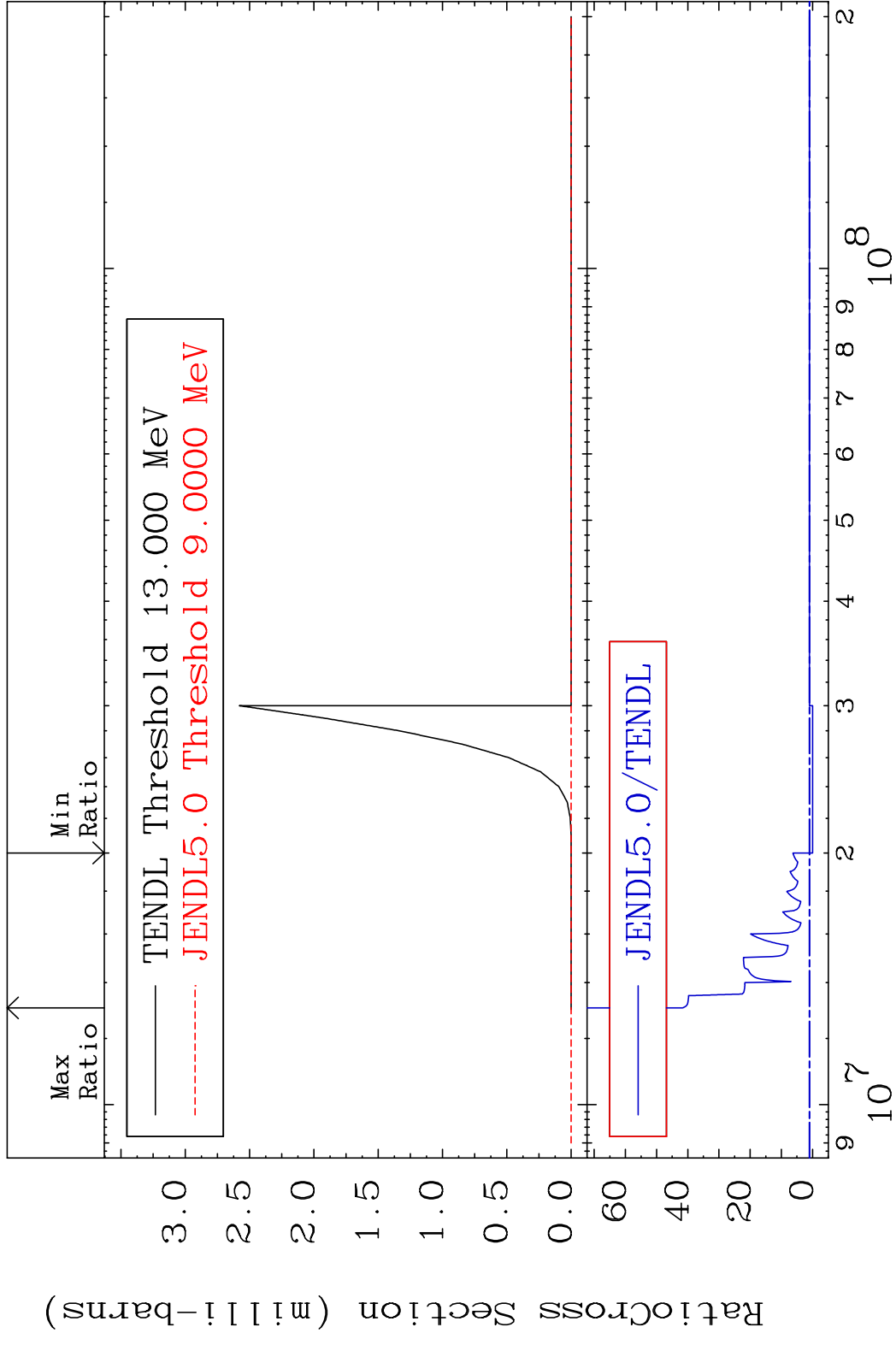


MAT 5731 (n, n')  $\alpha$ :55-Cs-136g 57-La-140  
 Radionuclide Production Cross Section Ratio 9999. %

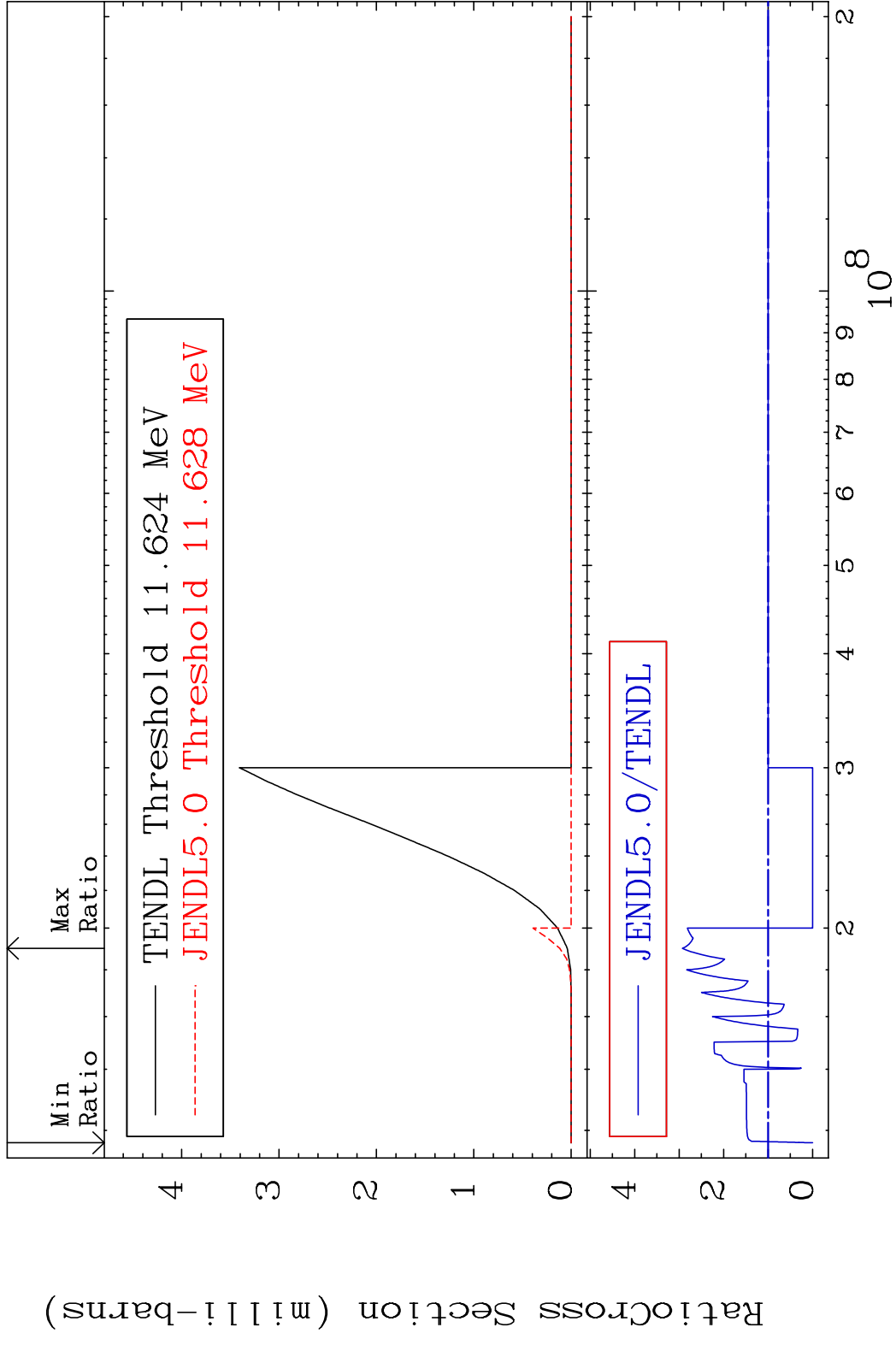


MAT 5731 (n,2n)  $\alpha$ :55-Cs-135g 57-La-140  
 Radionuclide Production Cross Section Ratio 9999. %

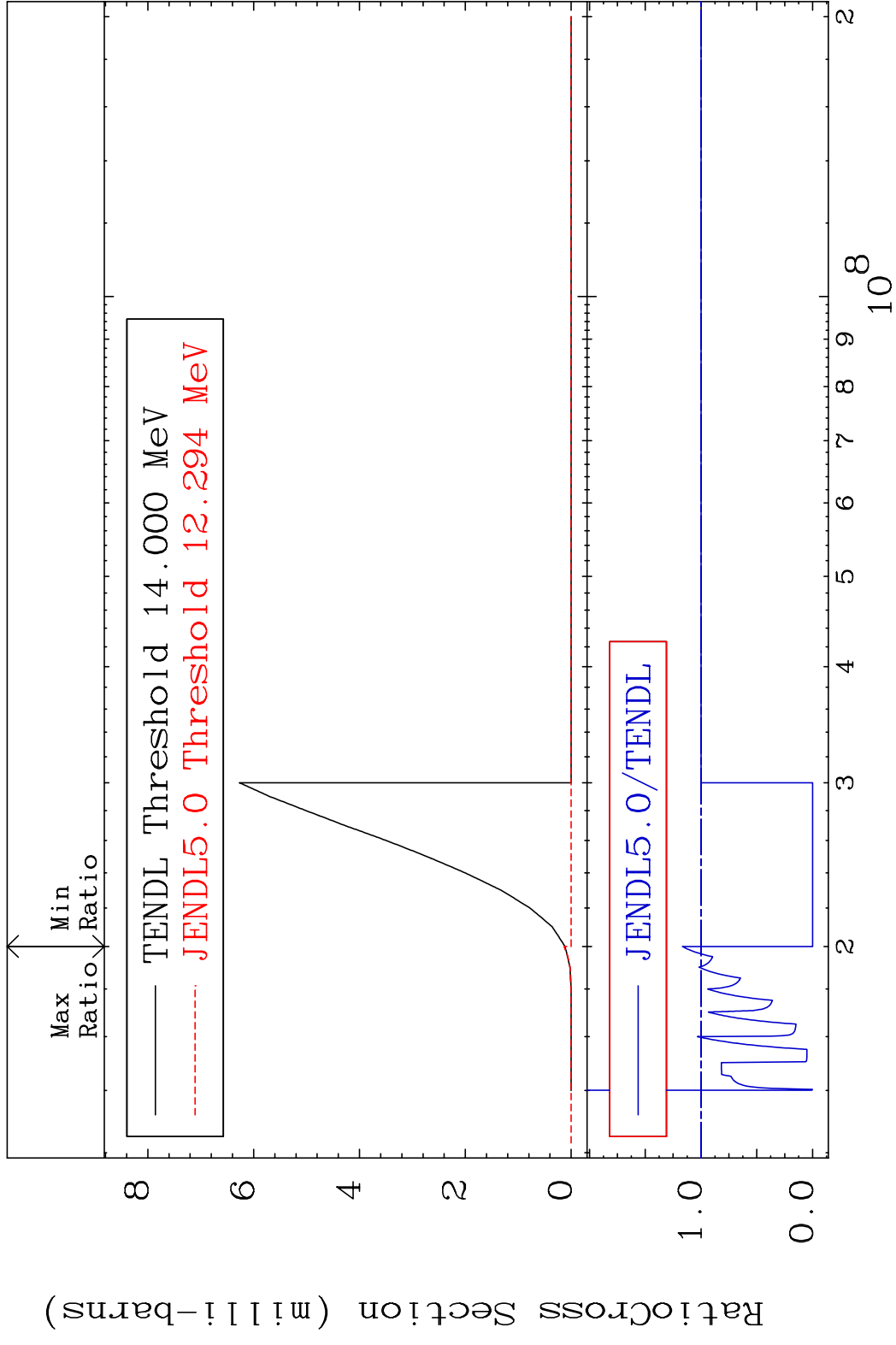




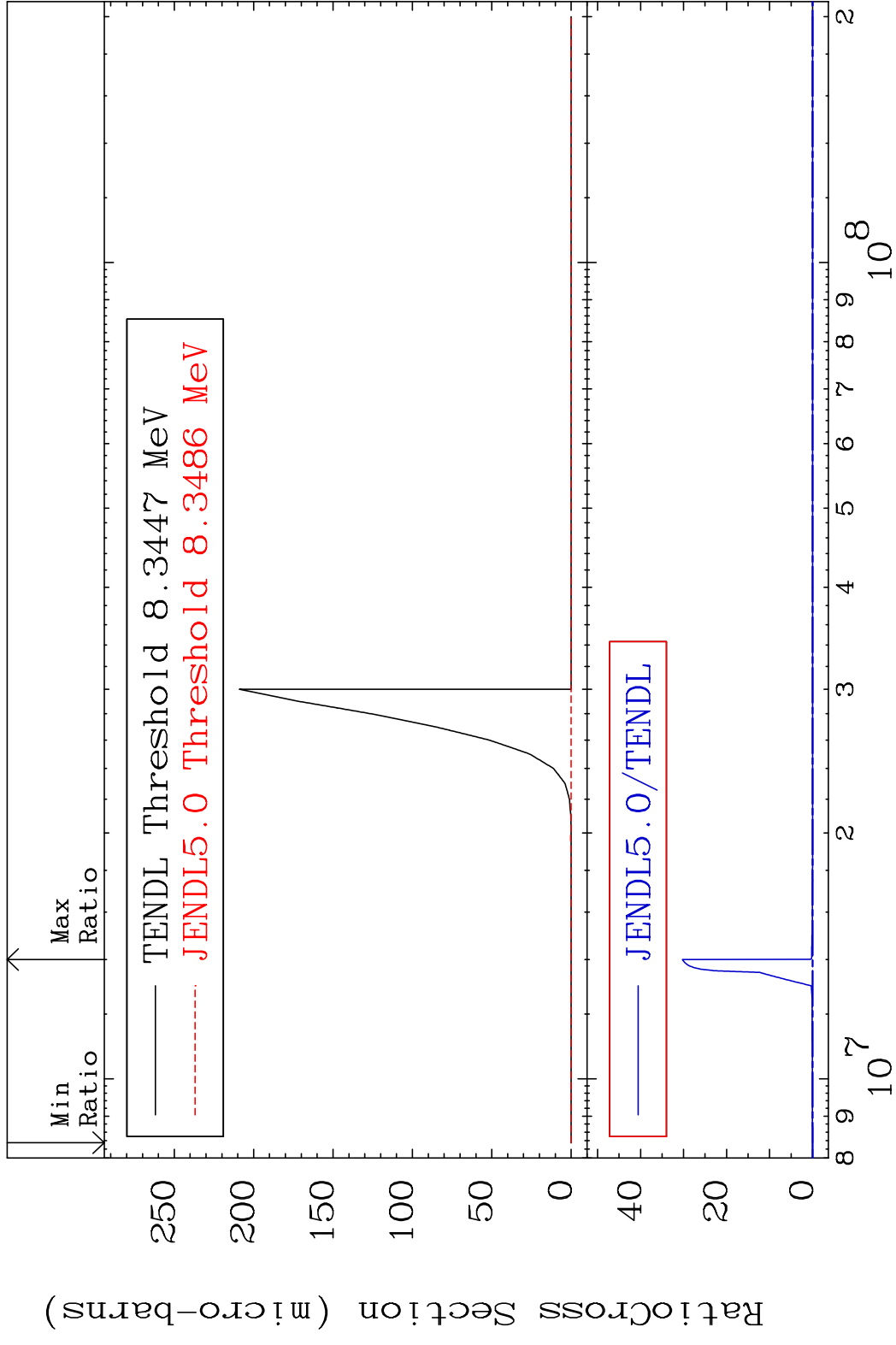
MAT 5731 (n, n') t:56-Ba-137g 57-La-140  
 Radionuclide Production Cross Section 192.8 %

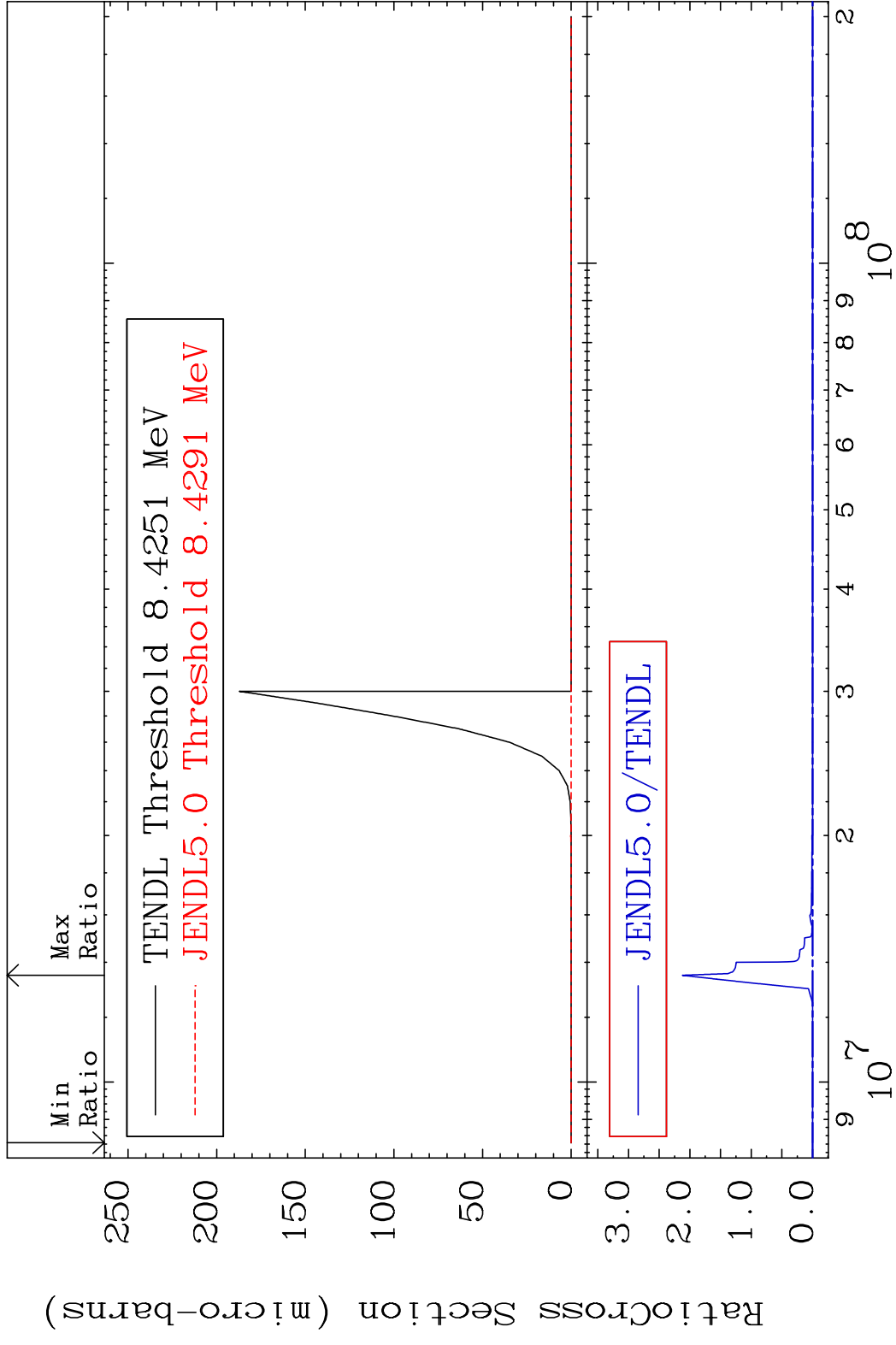


MAT 5731 (n, n') t:56-Ba-137m2 57-La-140  
 Radionuclide Production Cross Section 18.00 mb 16.73 %







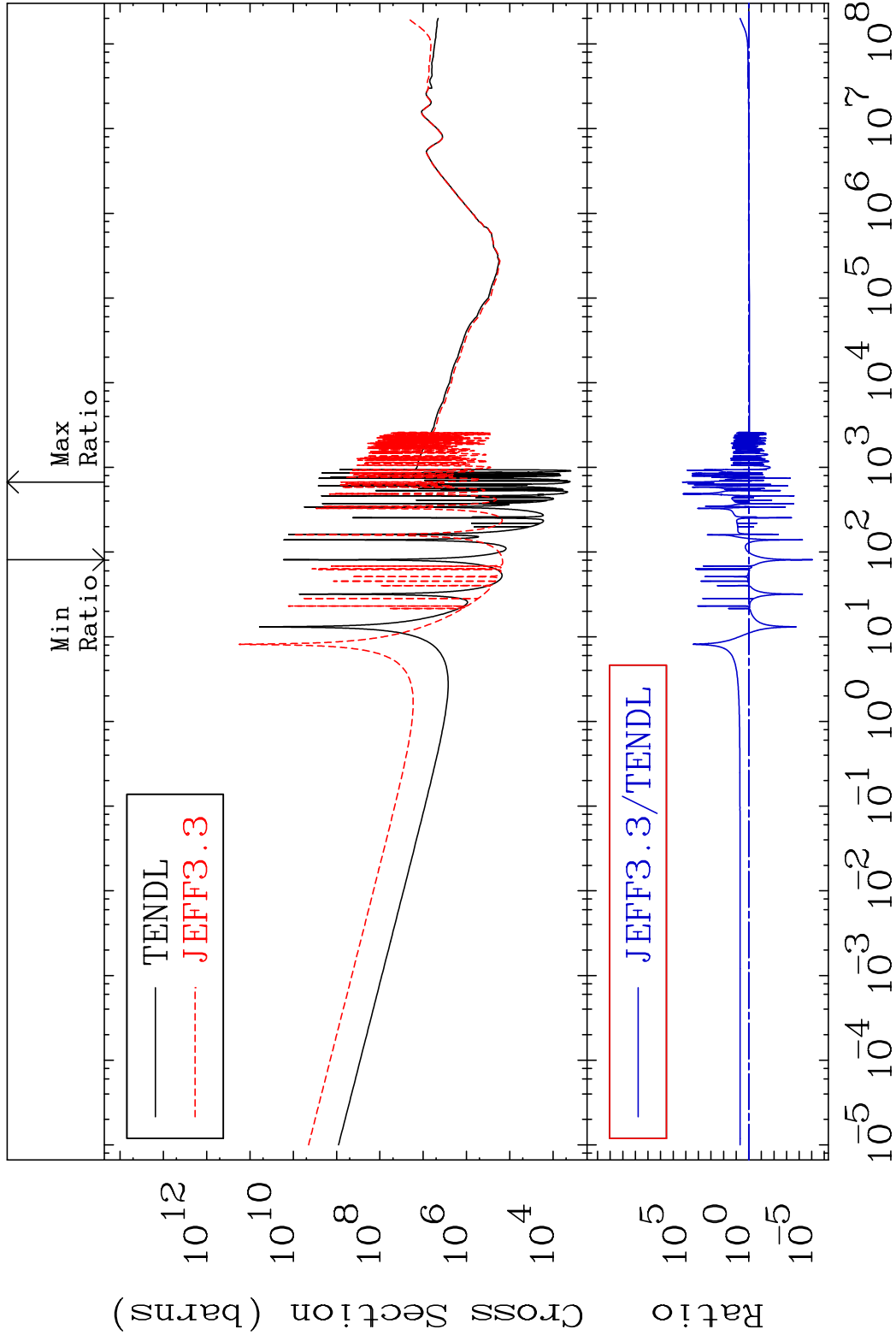


MAT 5731

Total photon (eV-barns)

57-La-140

Cross Section -100.0 To 9999. %

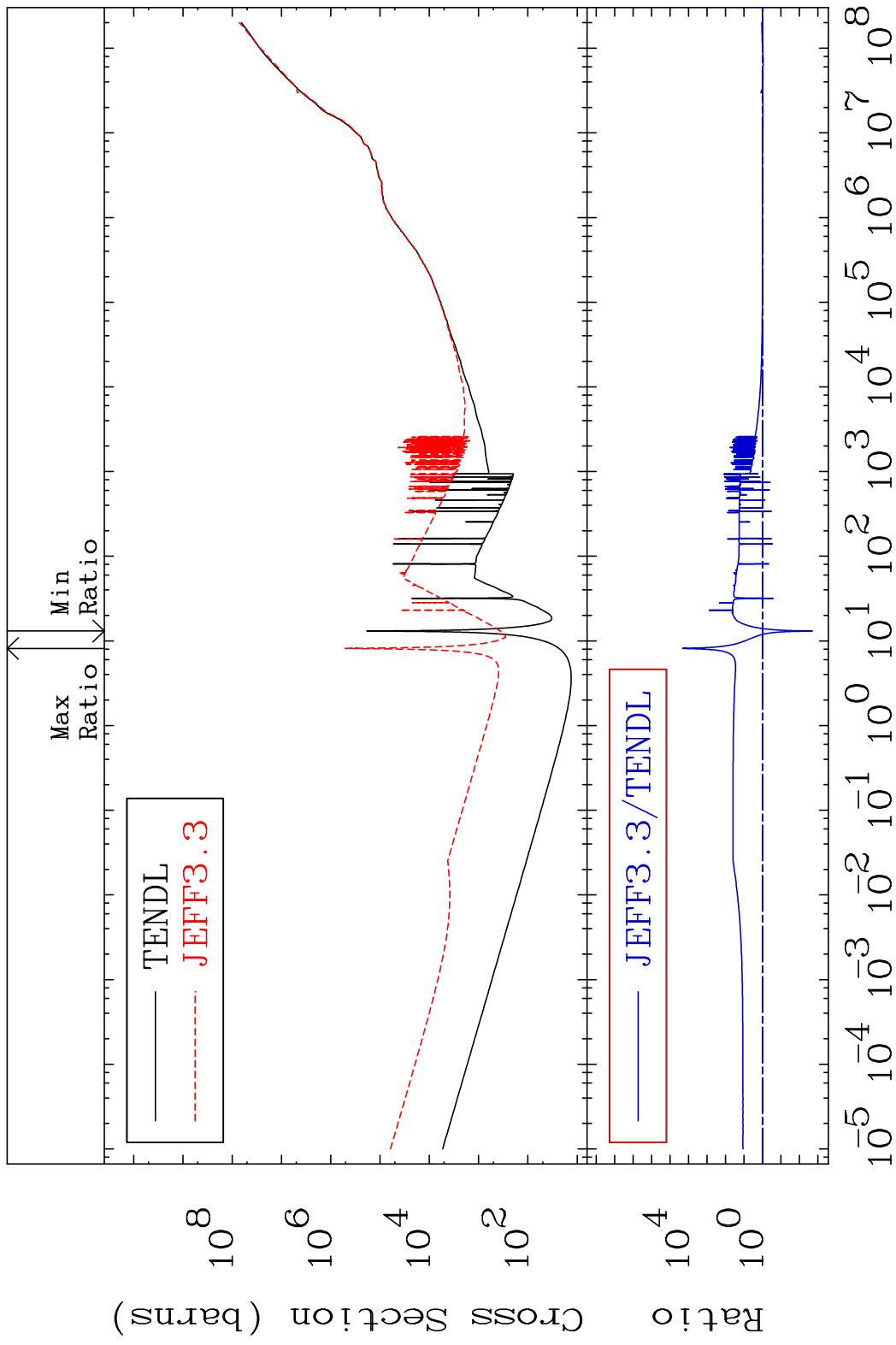


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Incident Energy (eV)

57-La-140

MAT 5731 Total kinematic kerma (high limit) 57-La-140  
 Cross Section -99.81 To 9999. %

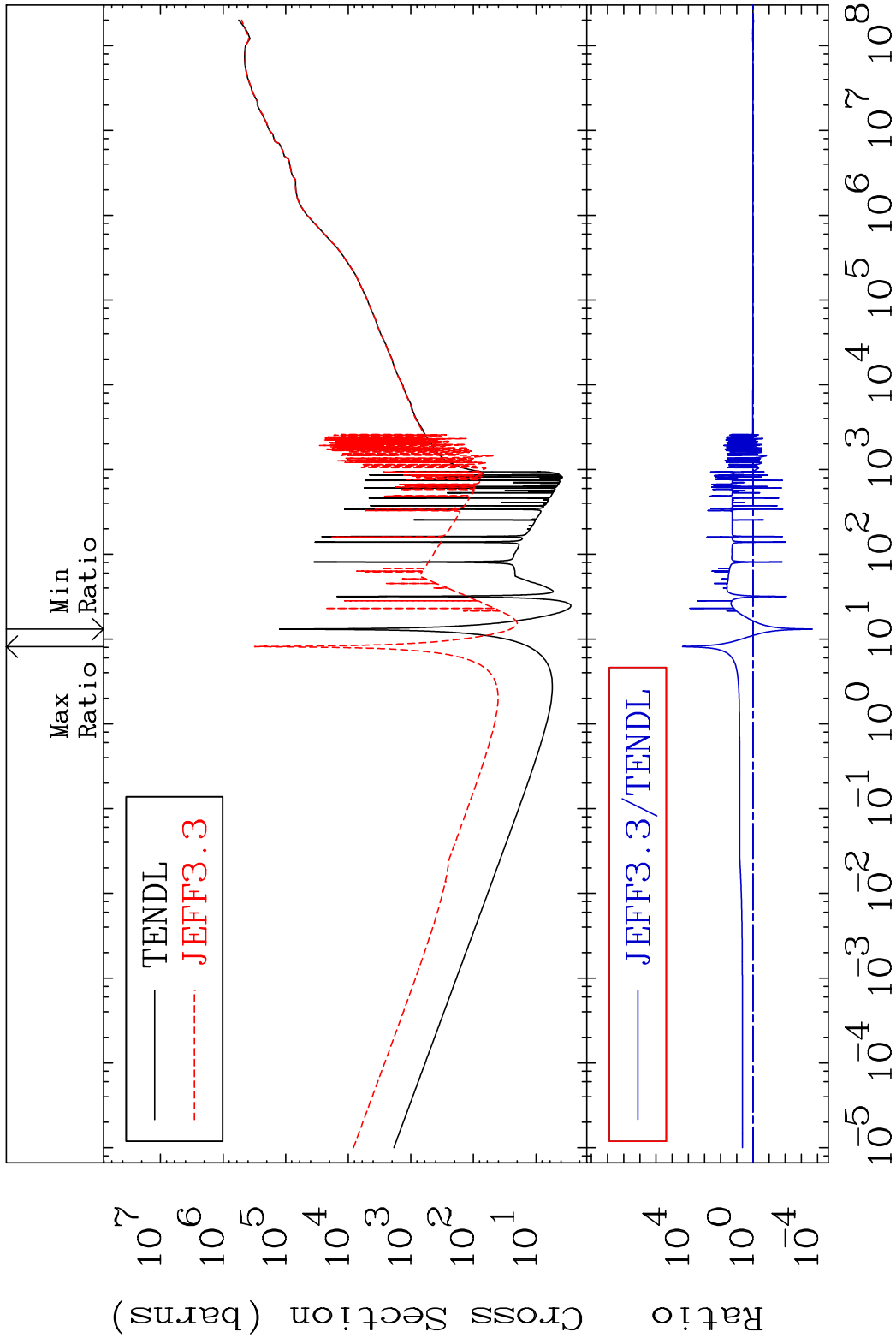


MAT 5731

Dpa total (eV-barns)

57-La-140

Cross Section -99.98 To 9999. %



76

Incident Energy (eV)

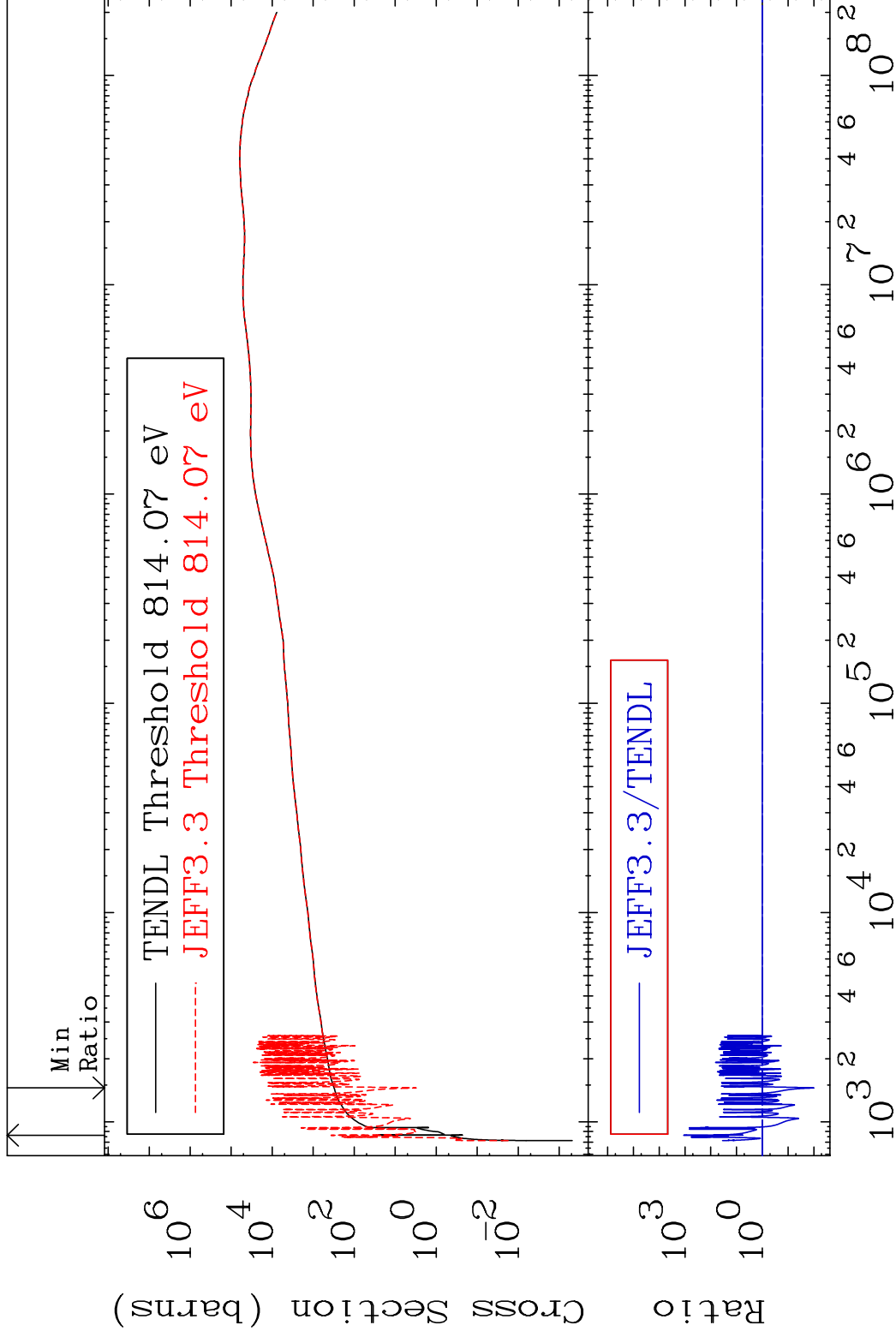
57-La-140

MAT 5731

Dpa elastic (mt2)

57-La-140

Cross Section -99.02 To 9999. %

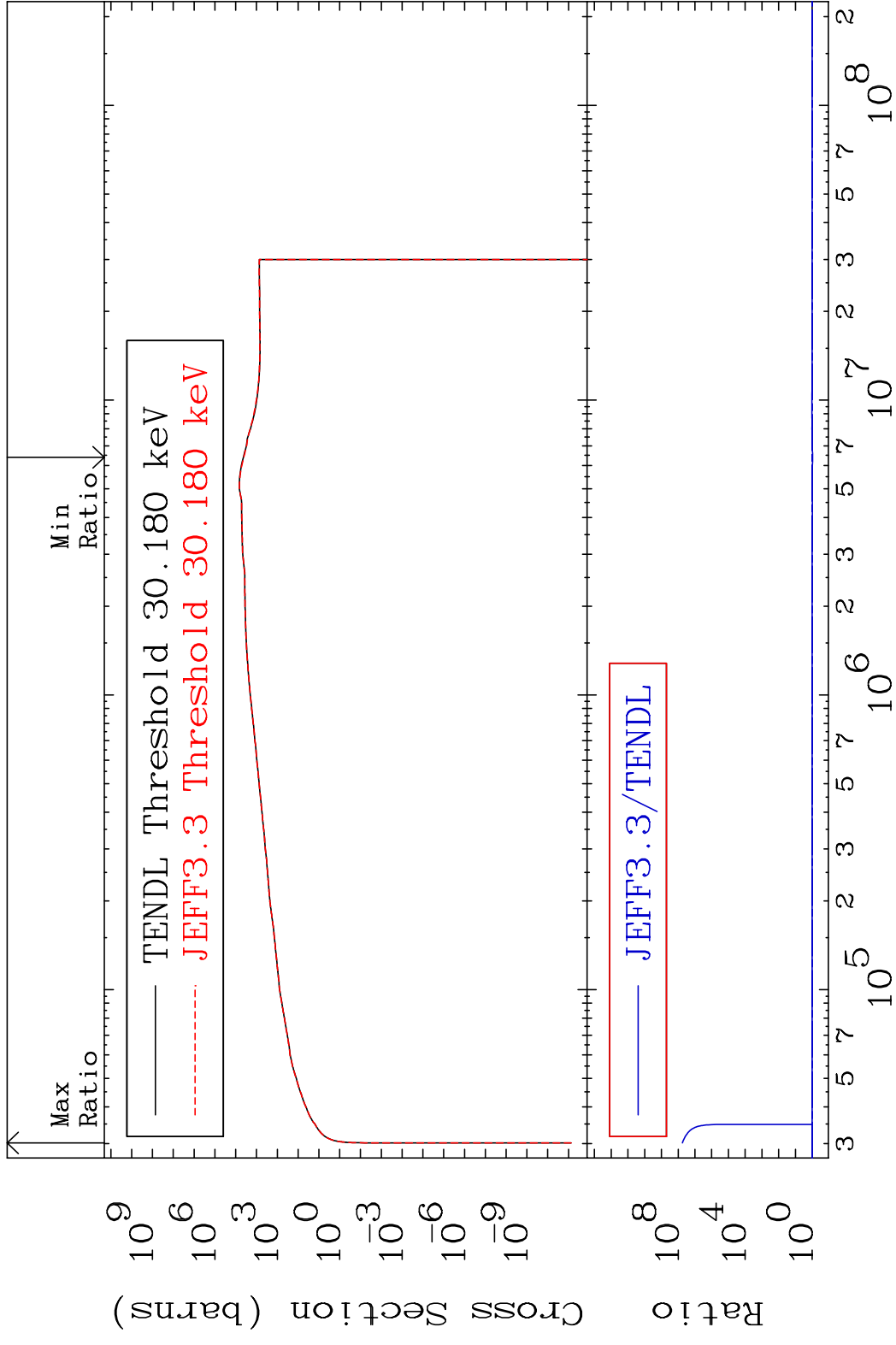


77

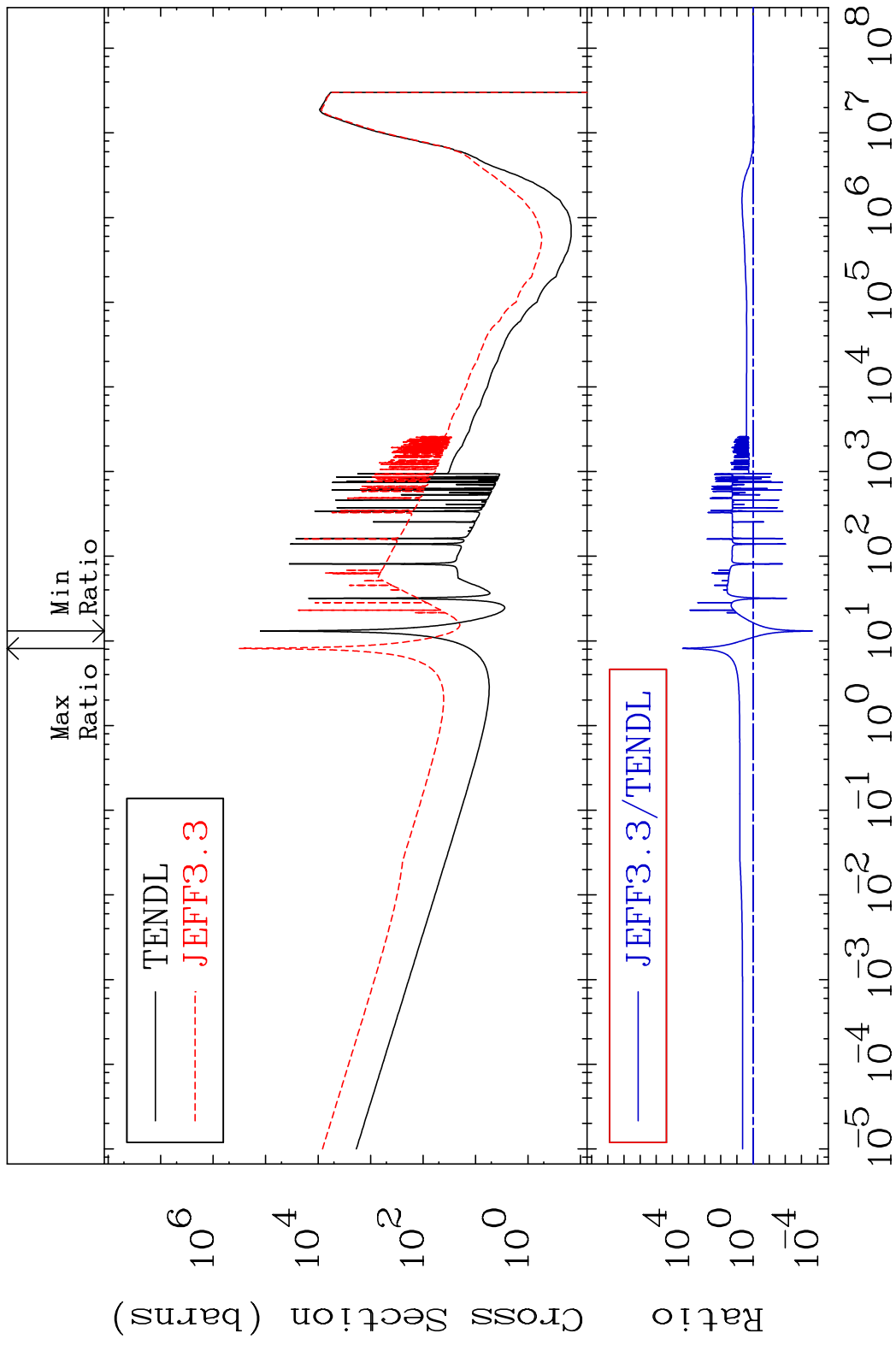
Incident Energy (eV)

57-La-140

MAT 5731 Dpa inelastic (mt51-91) 57-La-140  
 Cross Section -3.993 To 9999. %

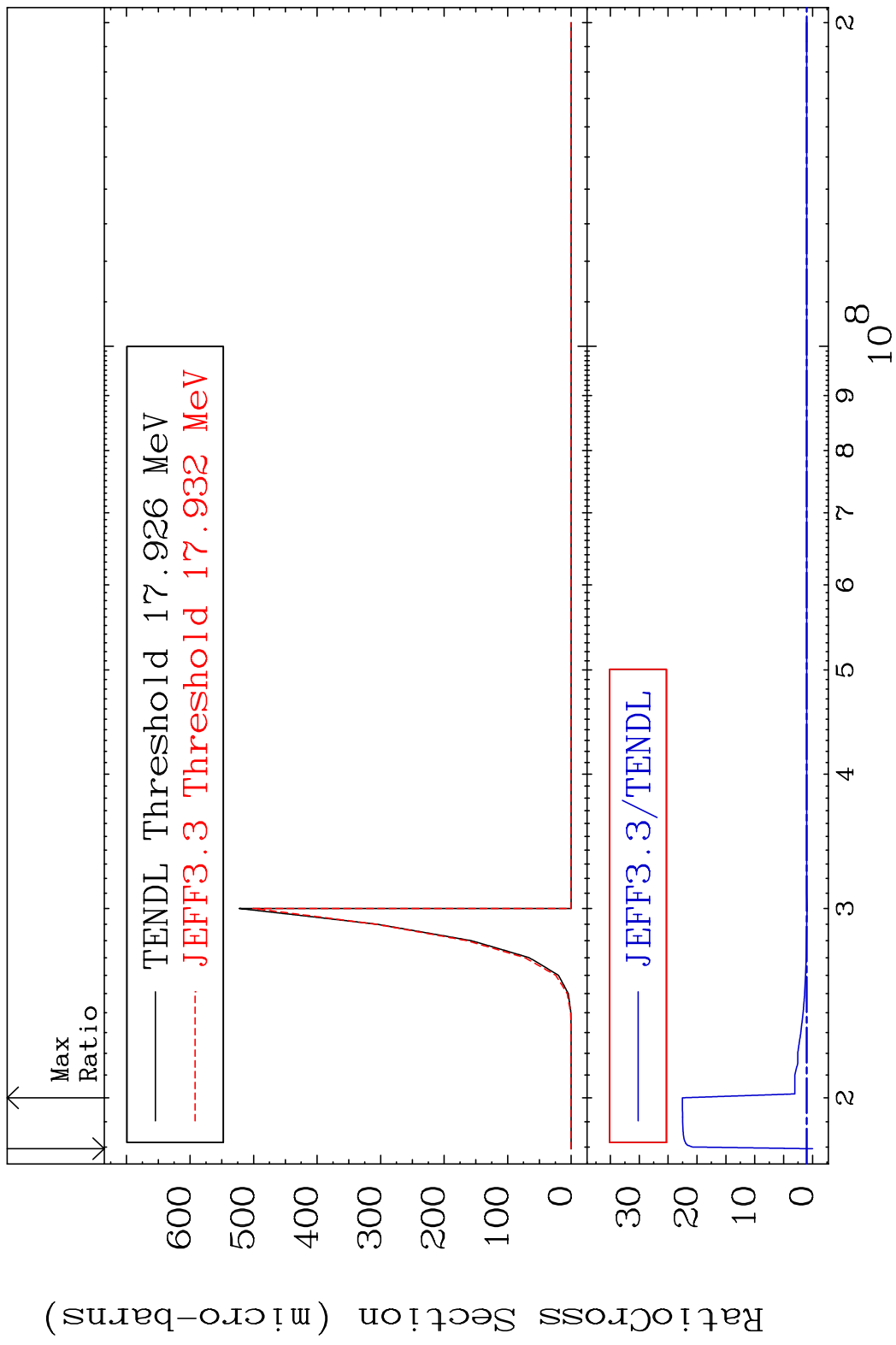


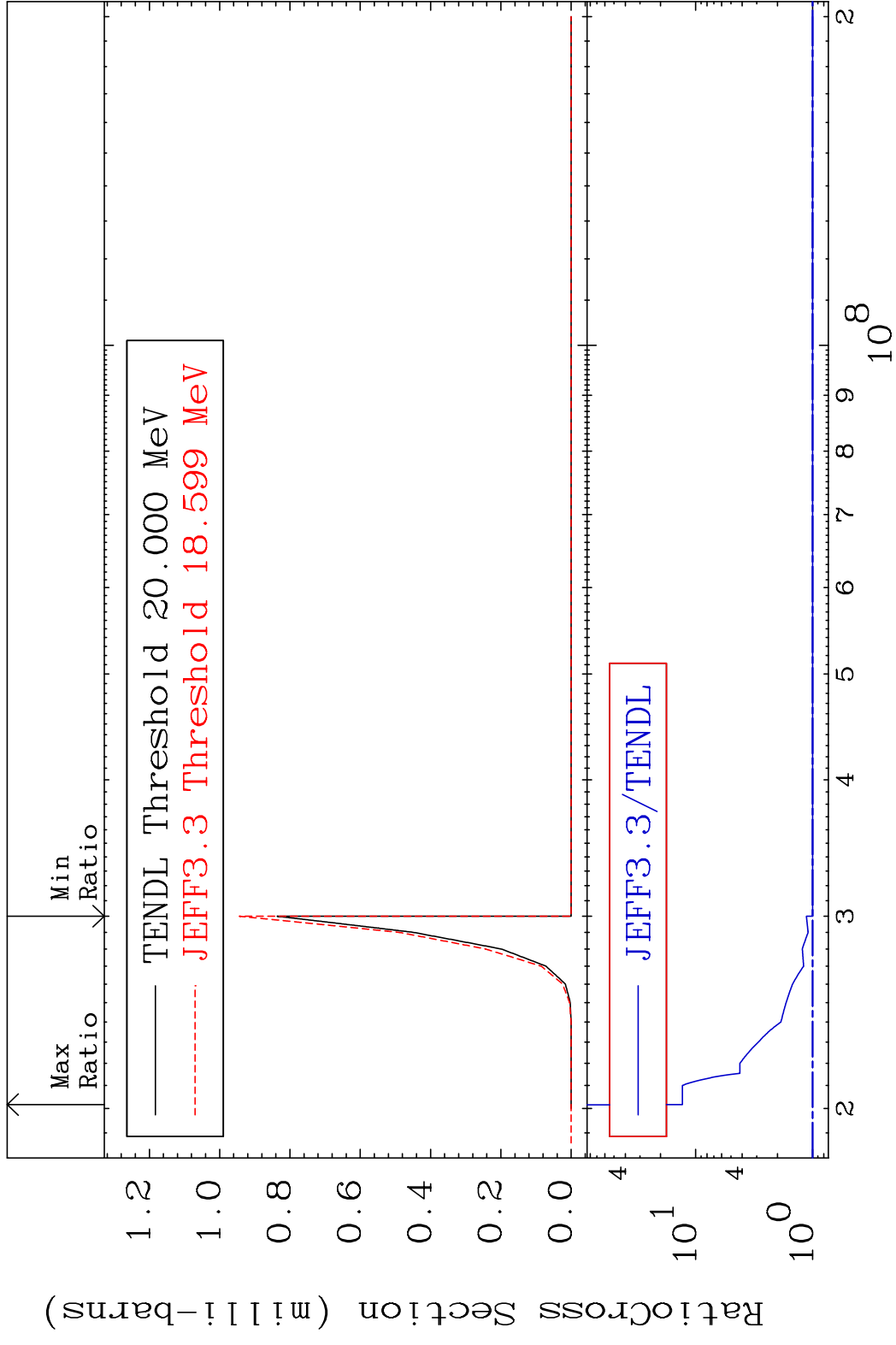
MAT 5731 Dpa disappearance (mt102 -120) 57-La-140  
 Cross Section -99.98 To 9999. %

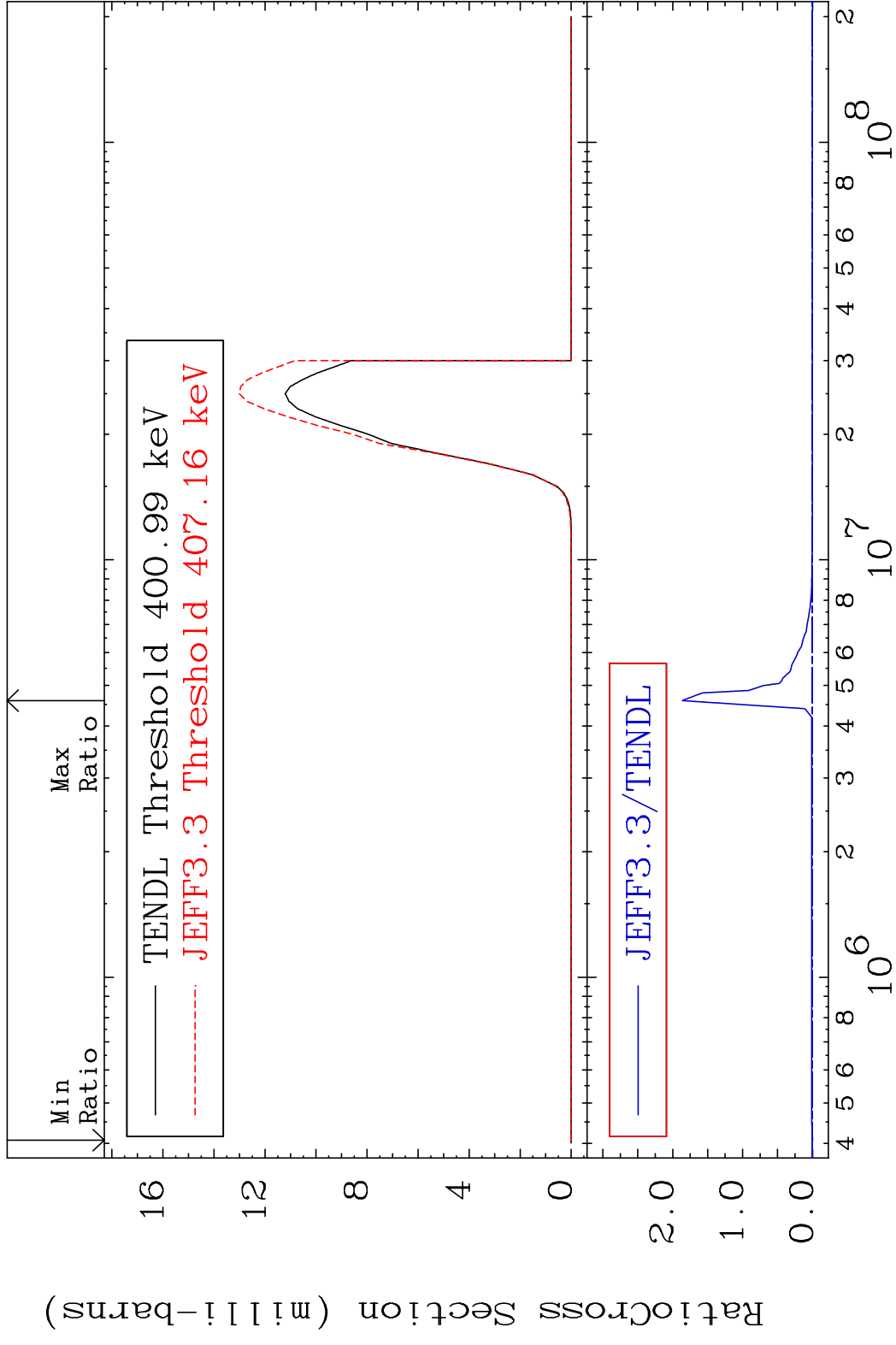


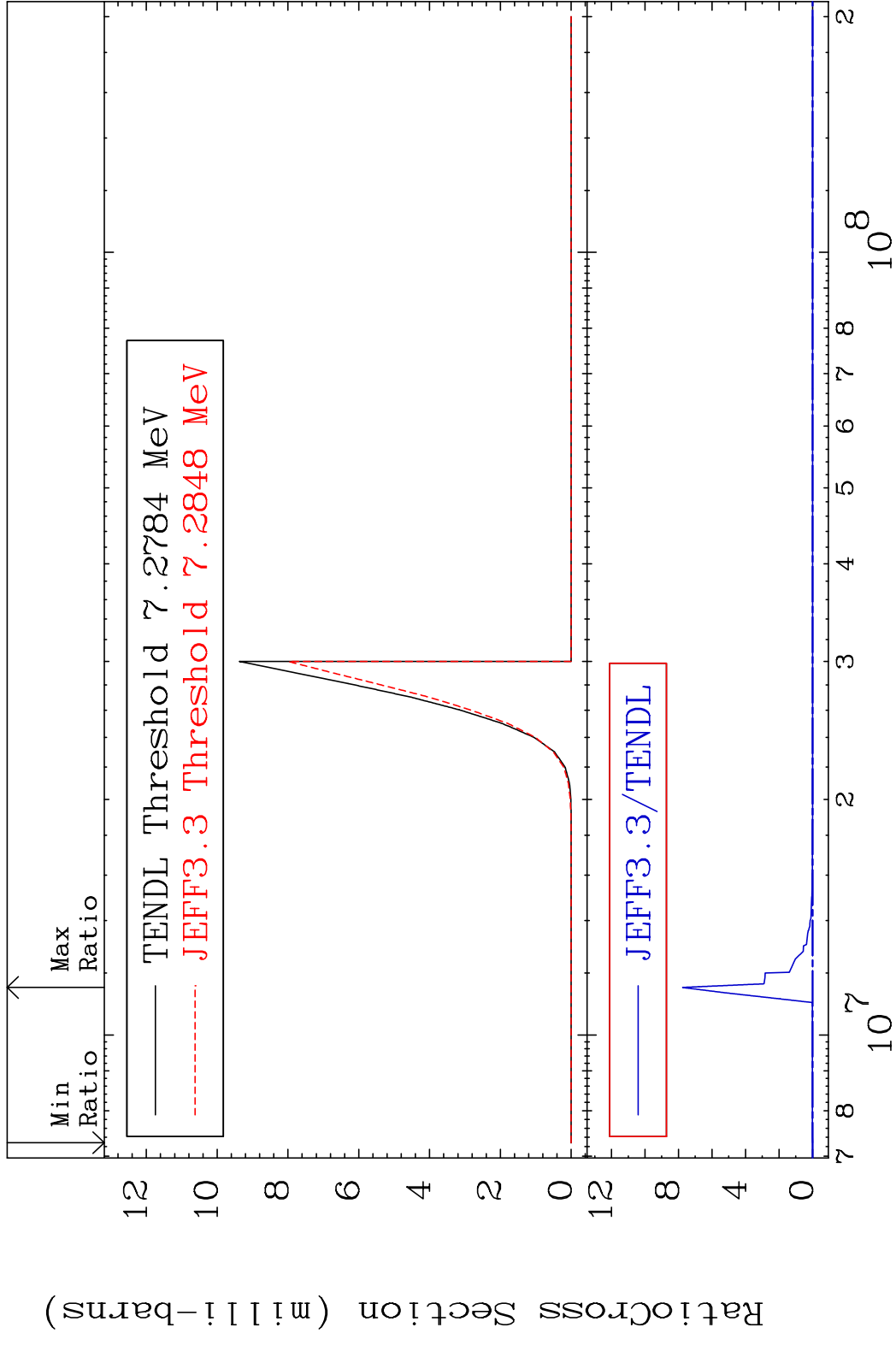


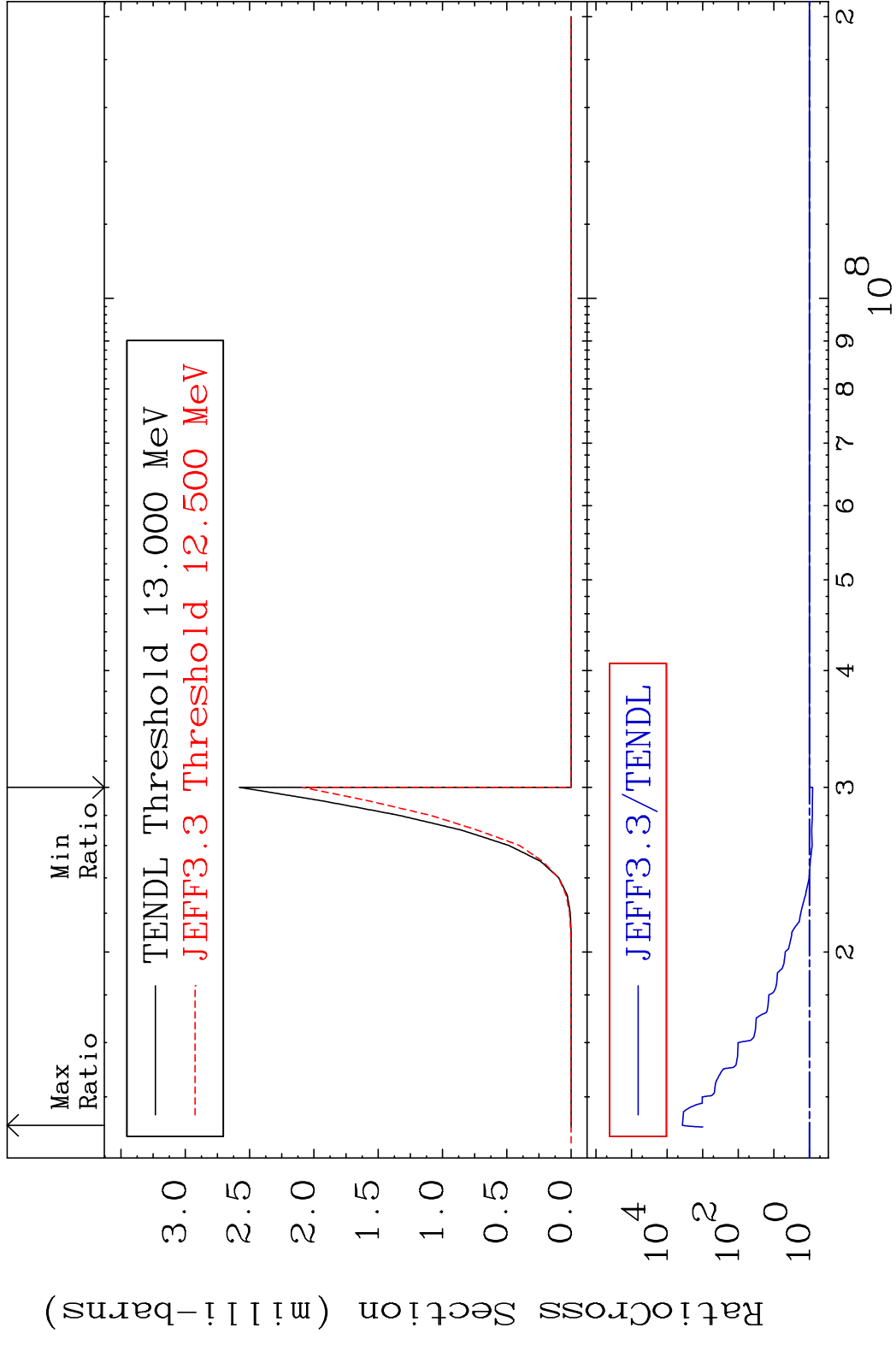
MAT 5731 (n,2n) d:56-Ba-137g 57-La-140  
 Radionuclide Production Cross Section Ratio 2154. %

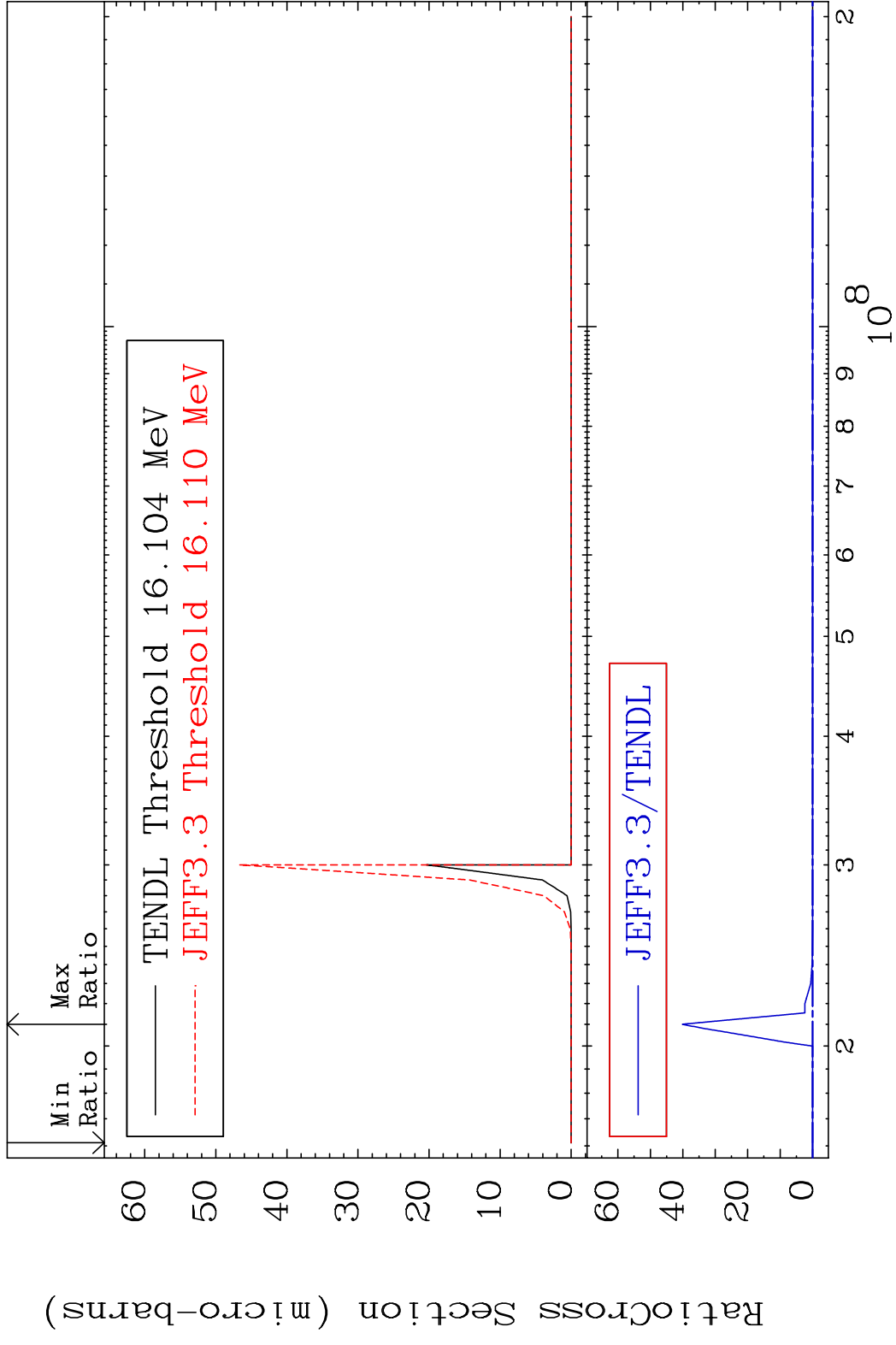


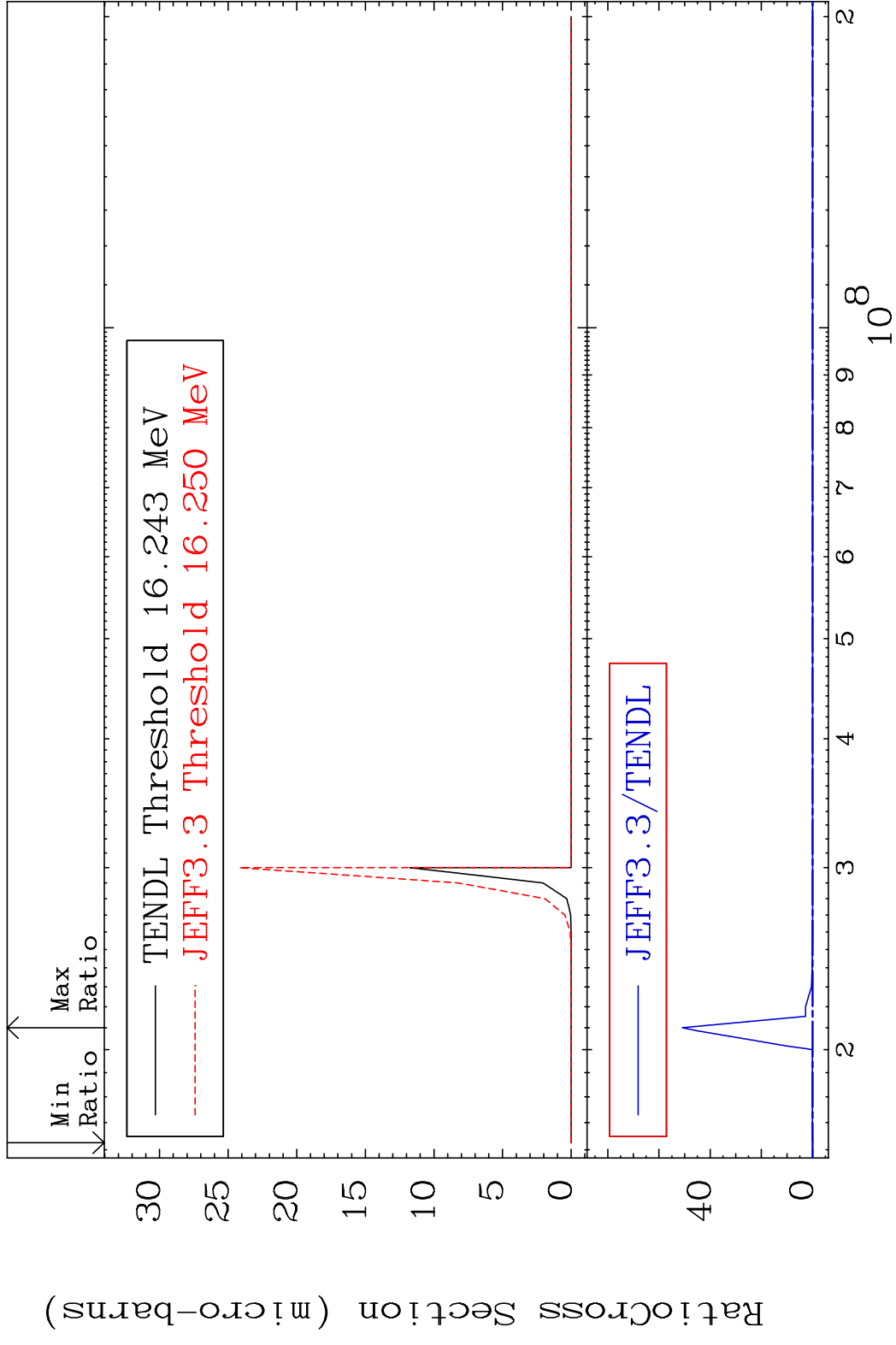


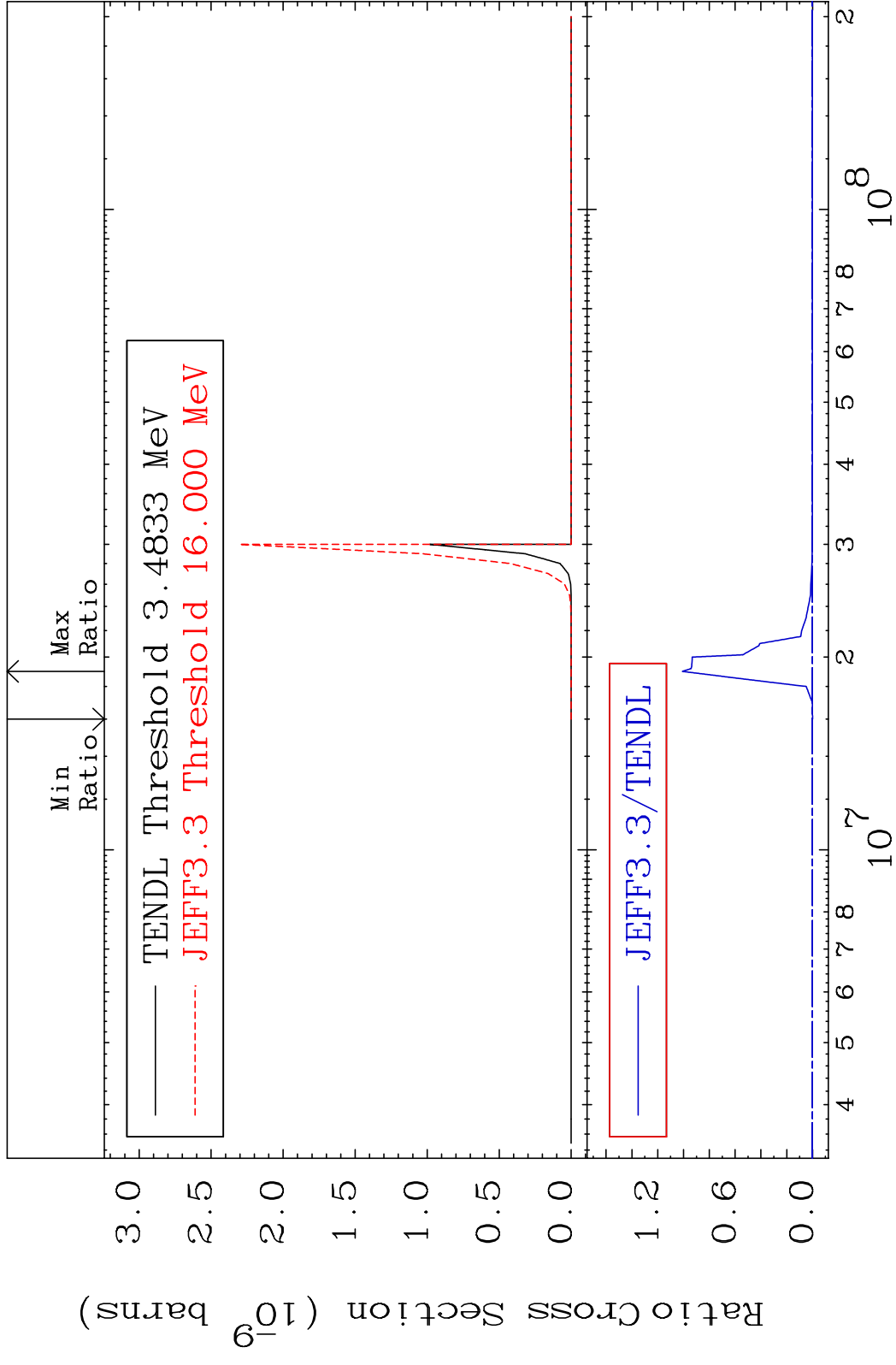




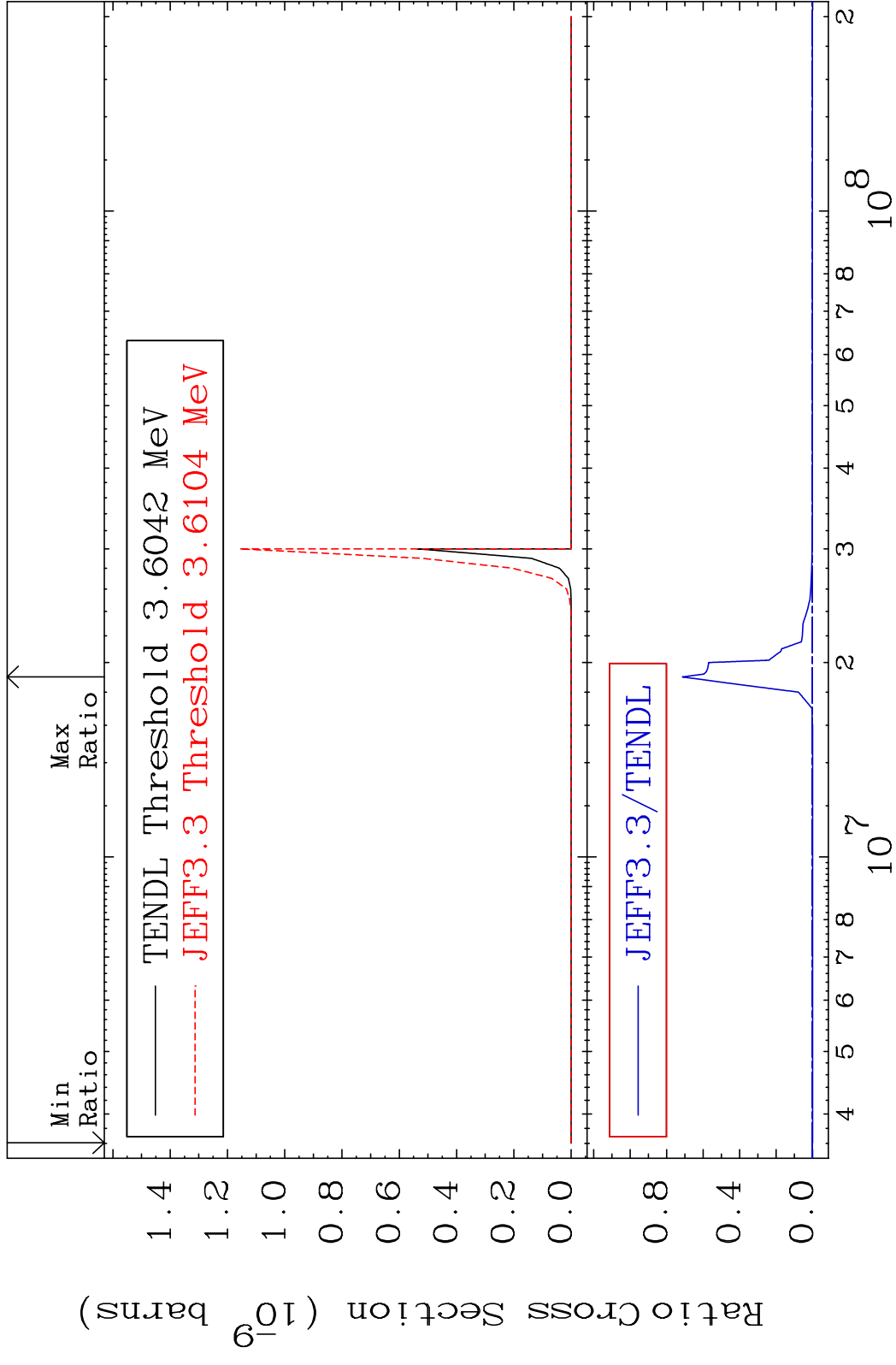




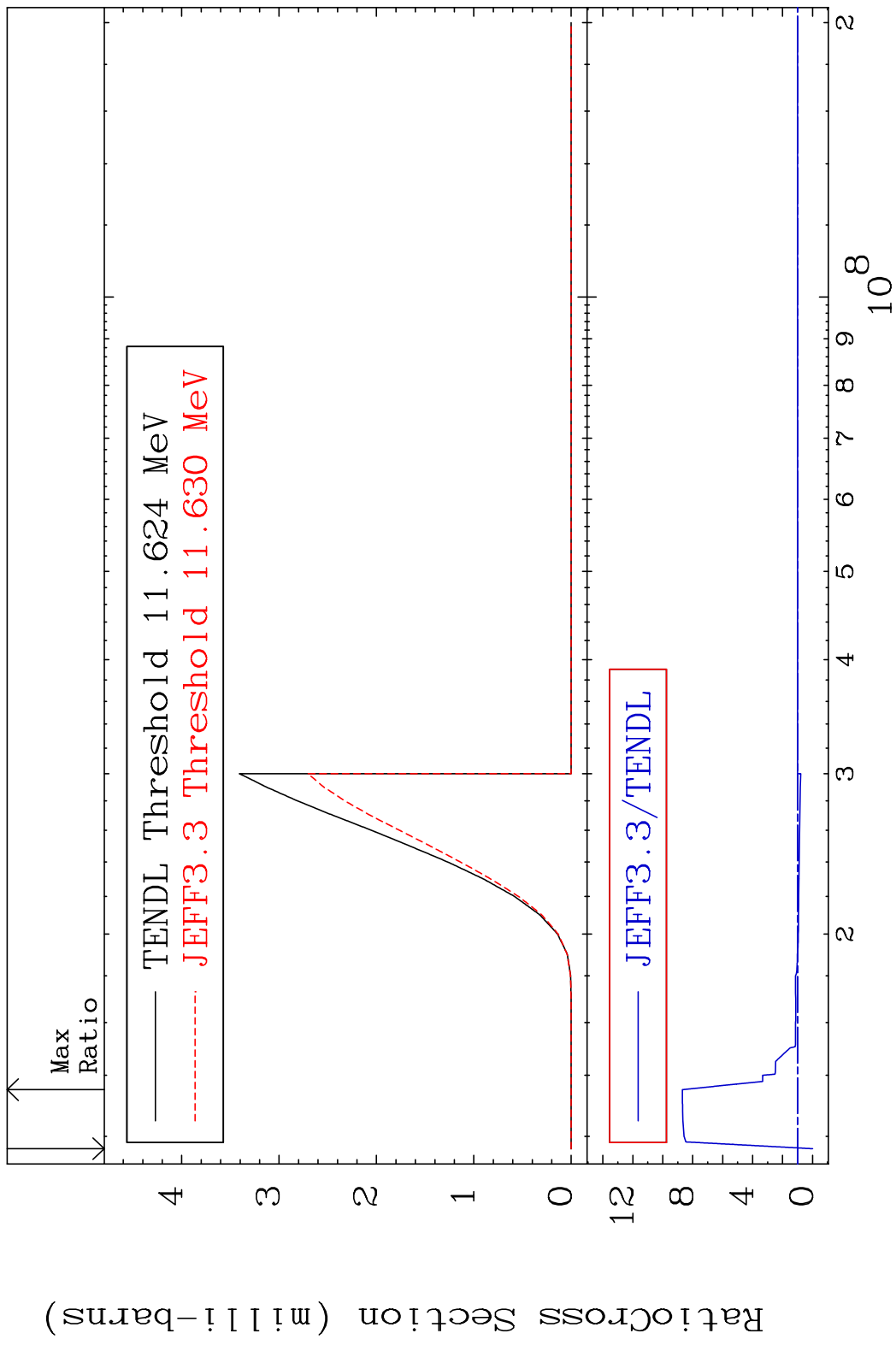




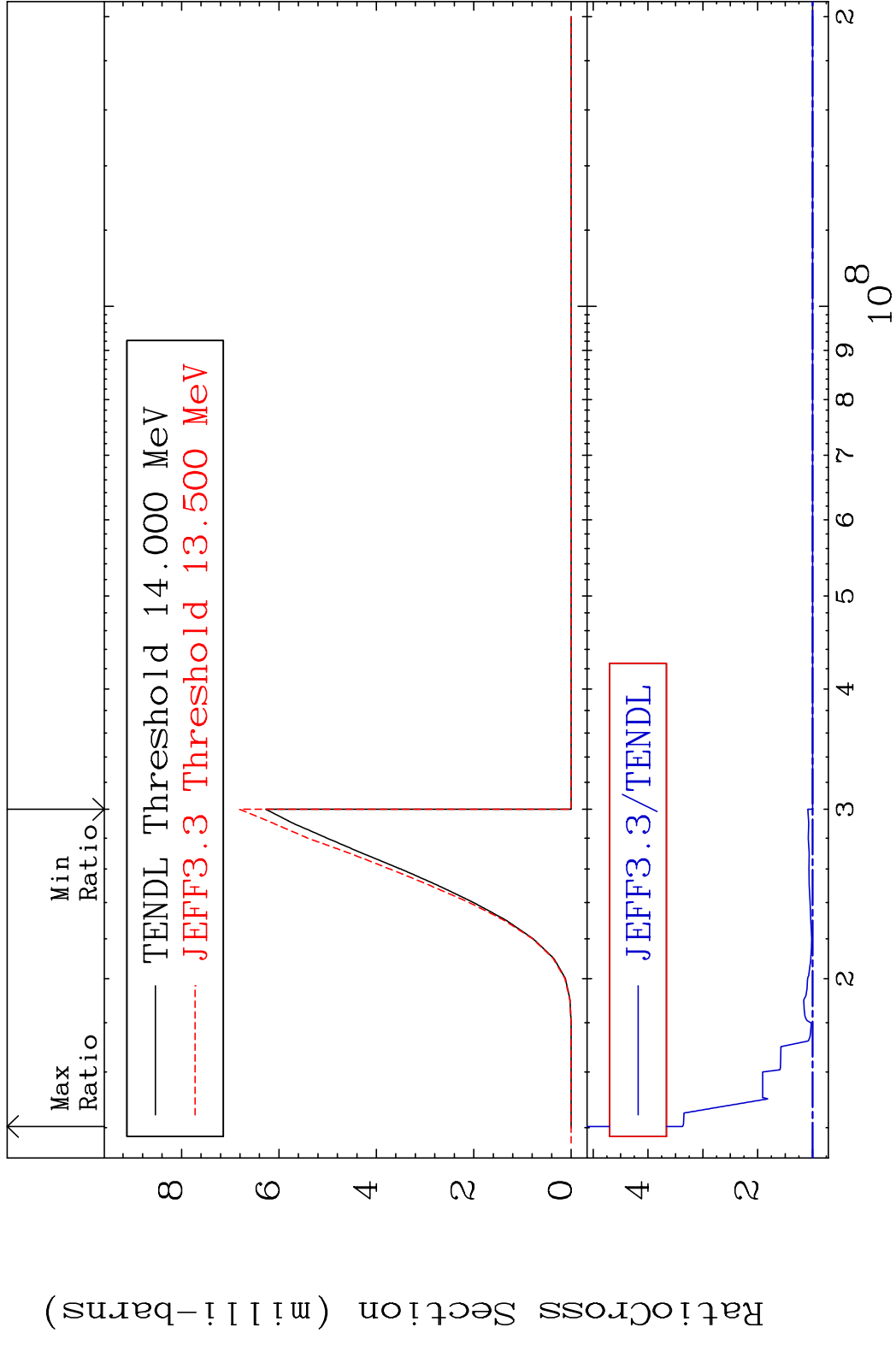


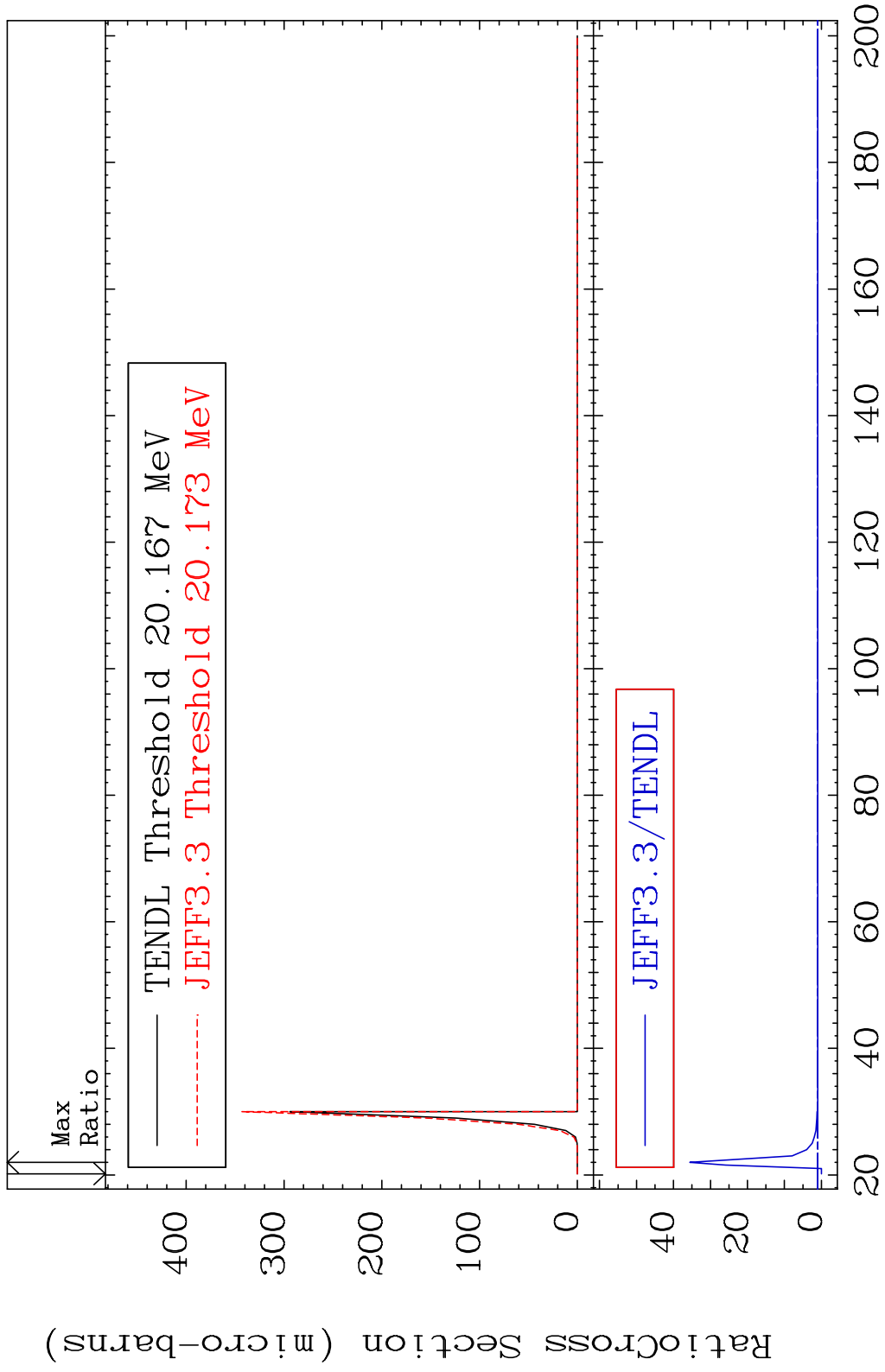


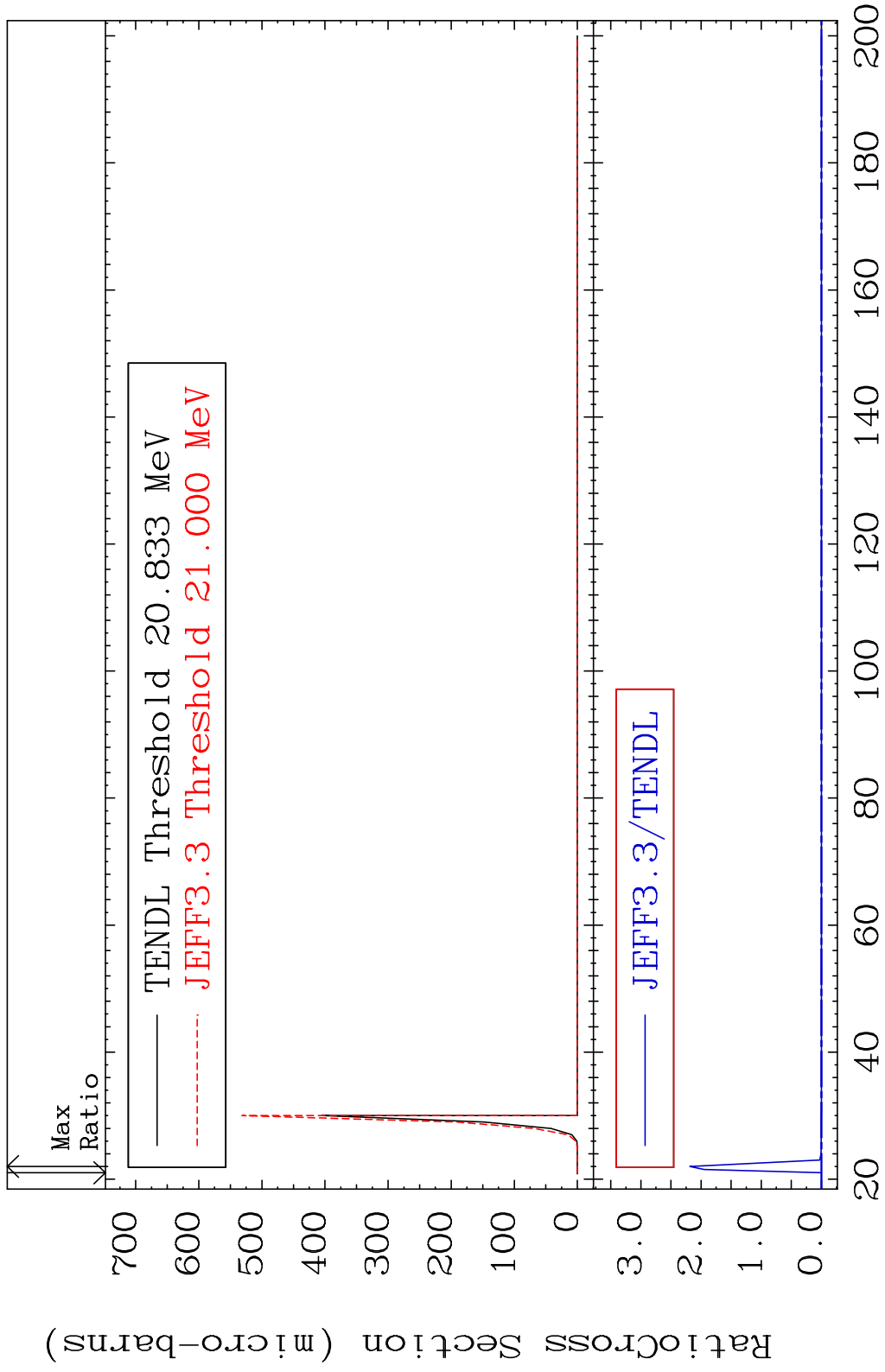
MAT 5731 (n, n') t:56-Ba-137g 57-La-140  
 Radionuclide Production Cross Section 180.0 dth 769.3 %



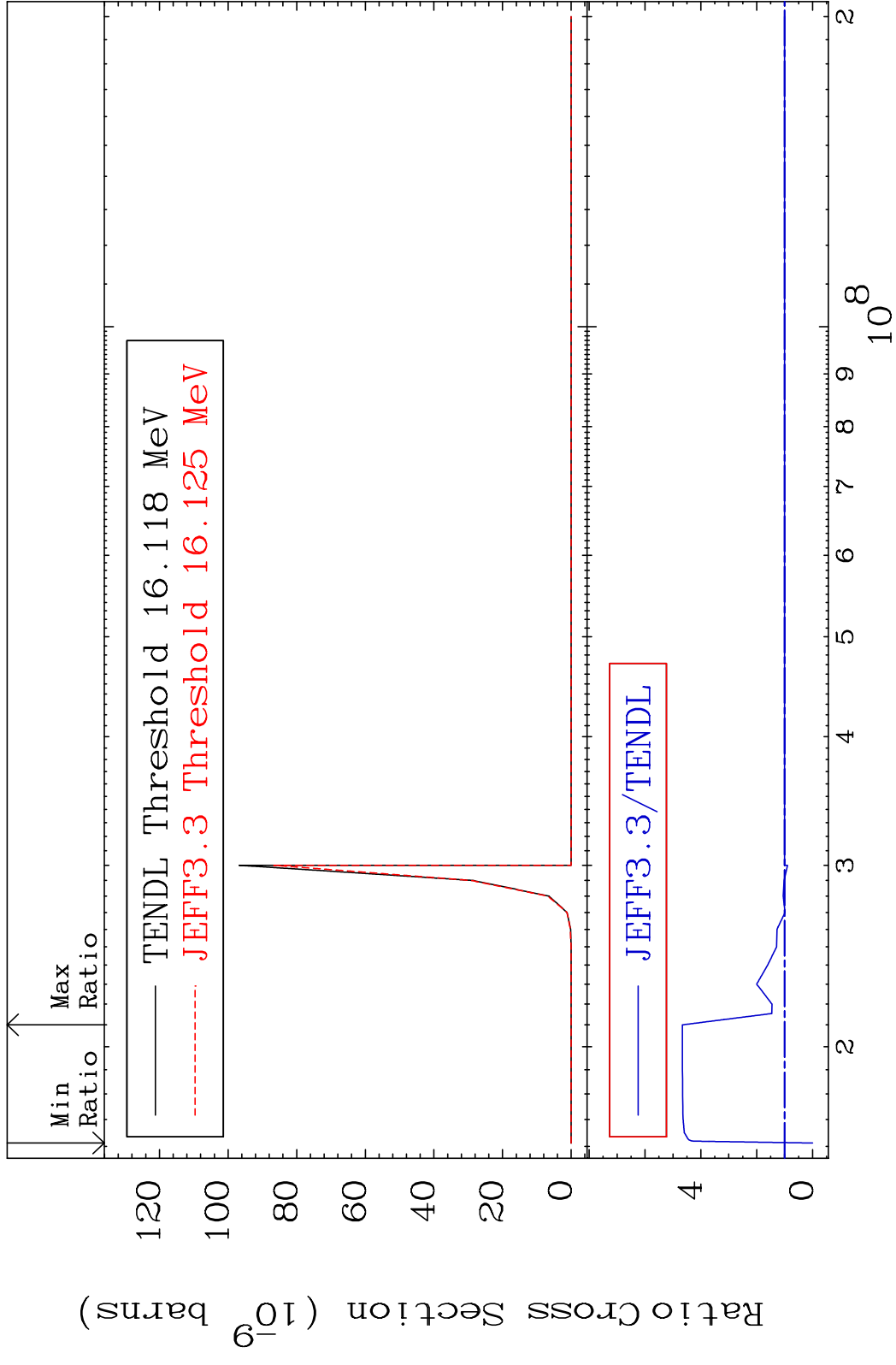
MAT 5731 (n, n') t:56-Ba-137m2 57-La-140  
 Radionuclide Production Cross Section 237.4 %

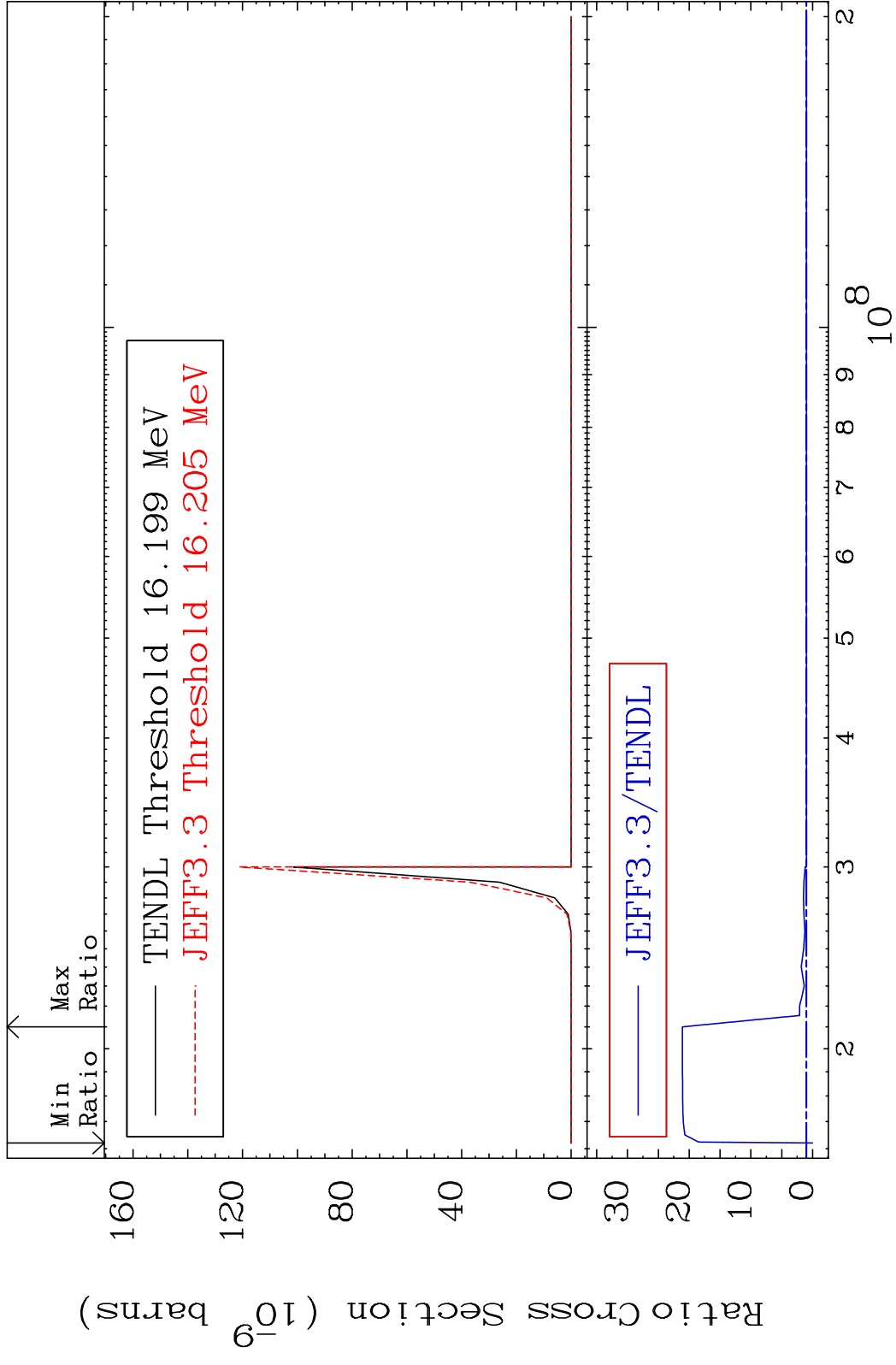




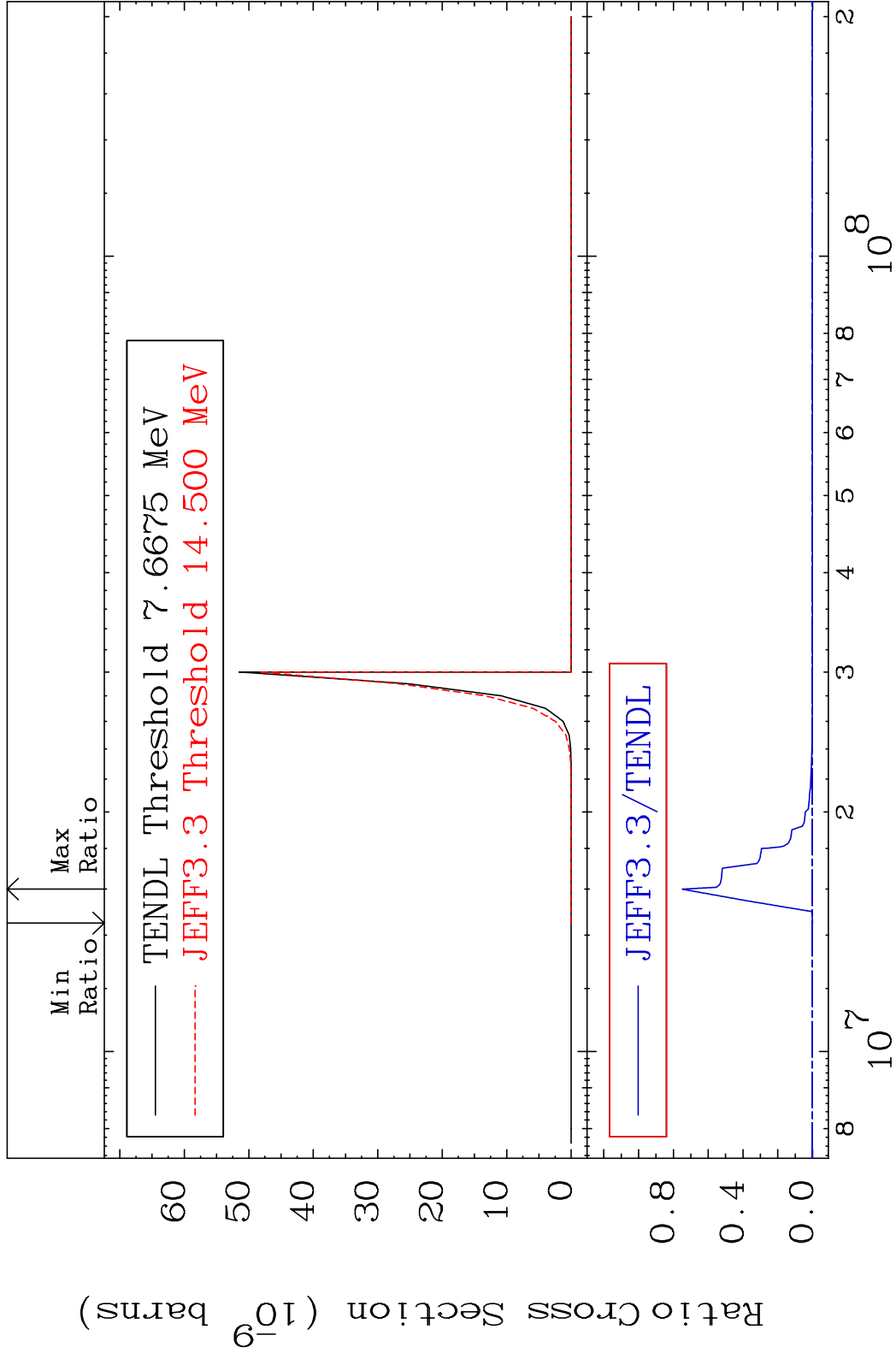


MAT 5731 (n,2n) p:55-Cs-138g 57-La-140  
 Radionuclide Production Cross Section Ratio 366.3 %



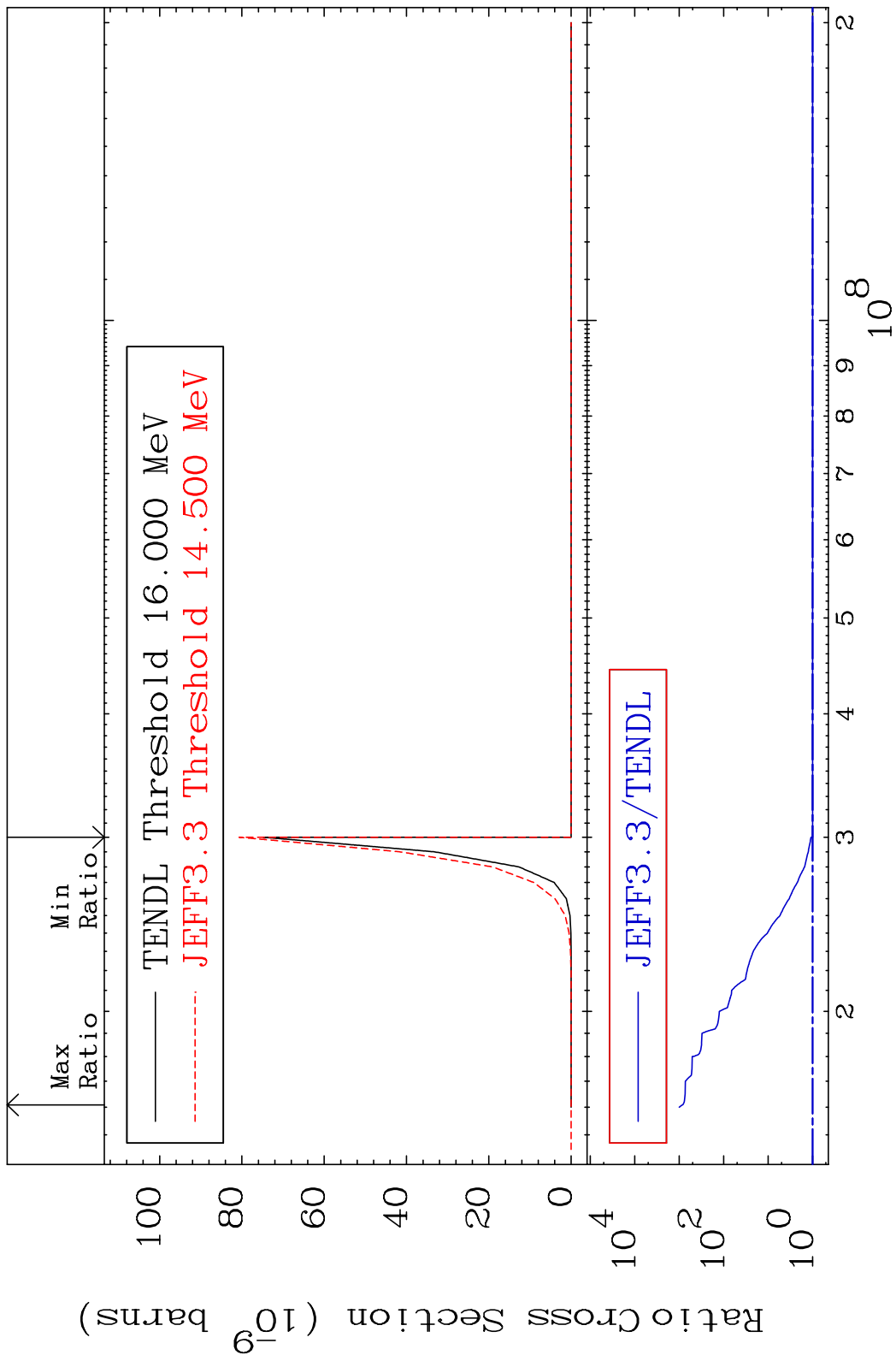


MAT 5731 (n, n') p  $\alpha$ :54-Xe-135g 57-La-140  
 Radionuclide Production Cross Section Ratio 9999. %

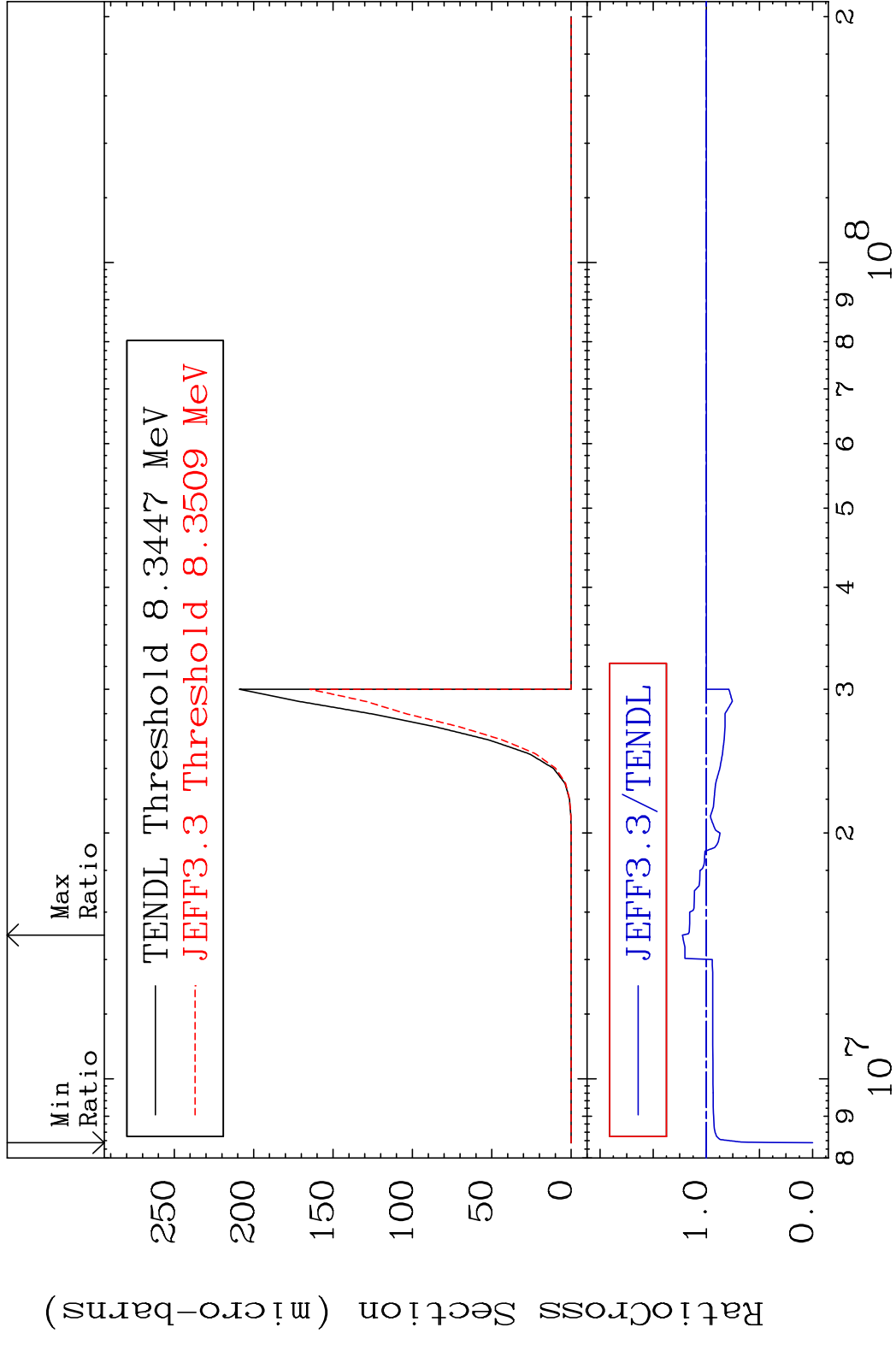


95 Incident Energy (eV) 57-La-140

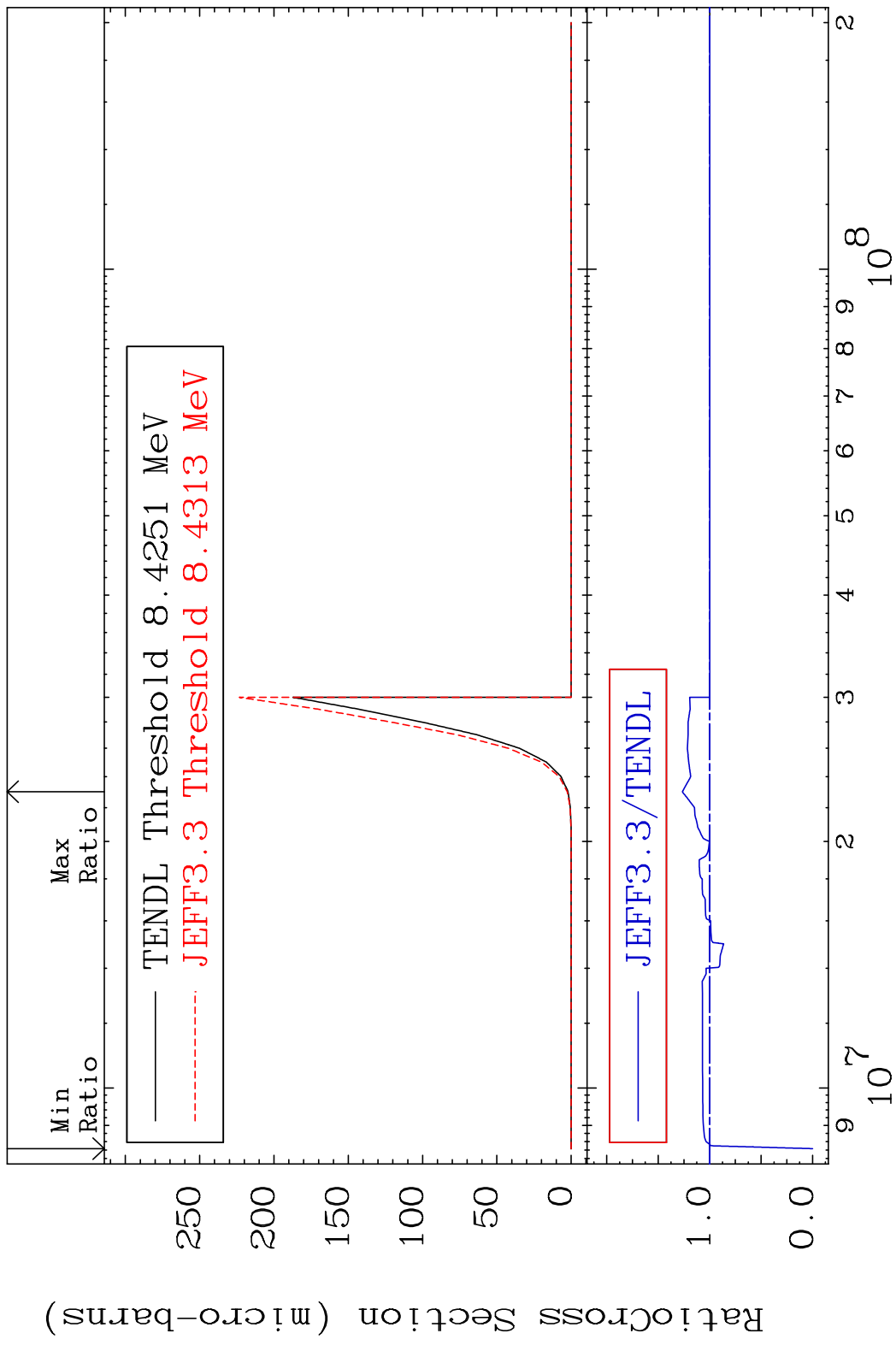




MAT 5731 (n, He-3): 55-Cs-138g 57-La-140  
 Radionuclide Production Cross Section Ratio 22.56 %

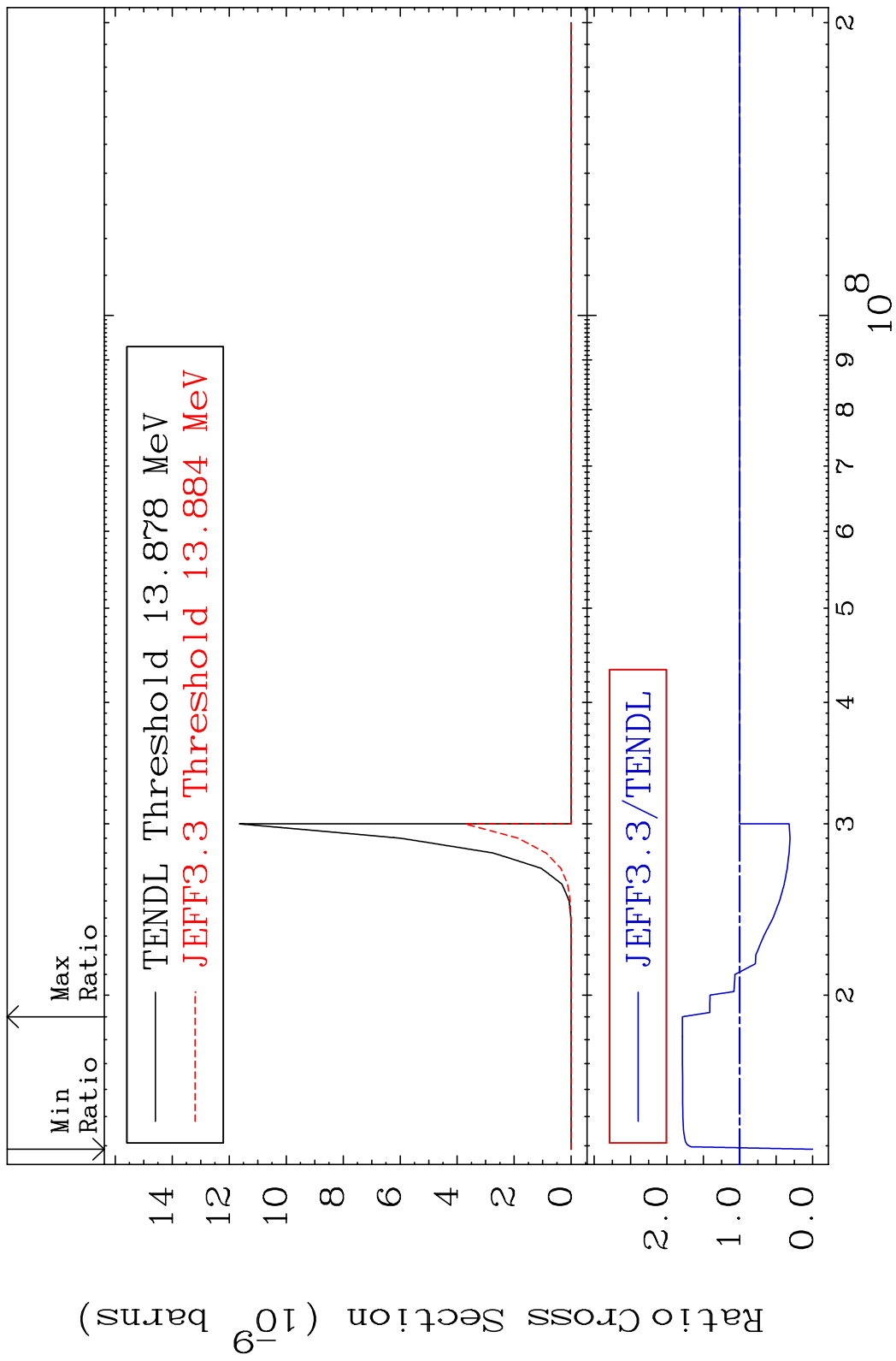


MAT 5731 (n, He-3) : 55-Cs-138m3 57-La-140  
 Radionuclide Production Cross Section 180.01 dth 26.52 %

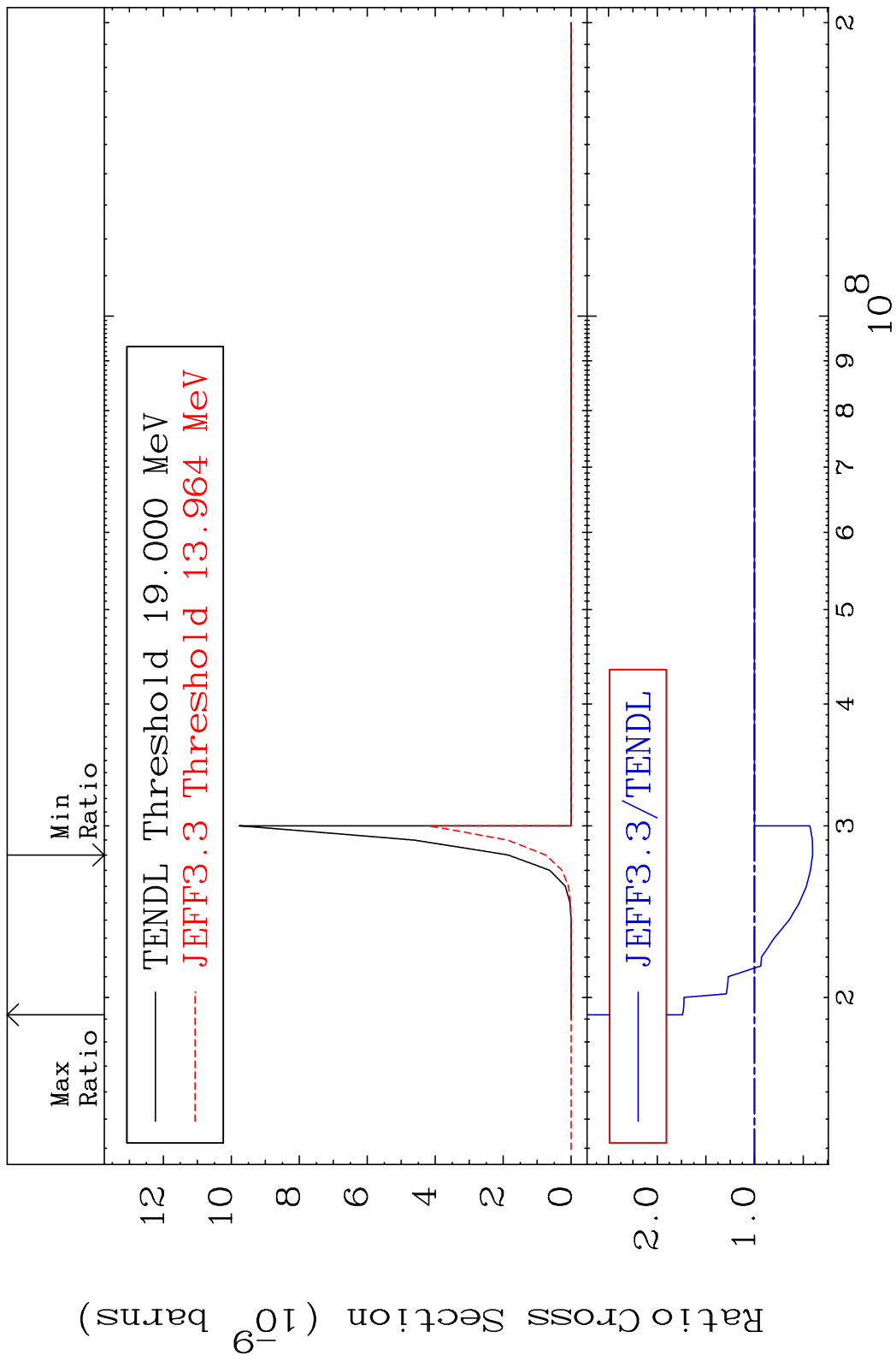


98 Incident Energy (eV) 57-La-140

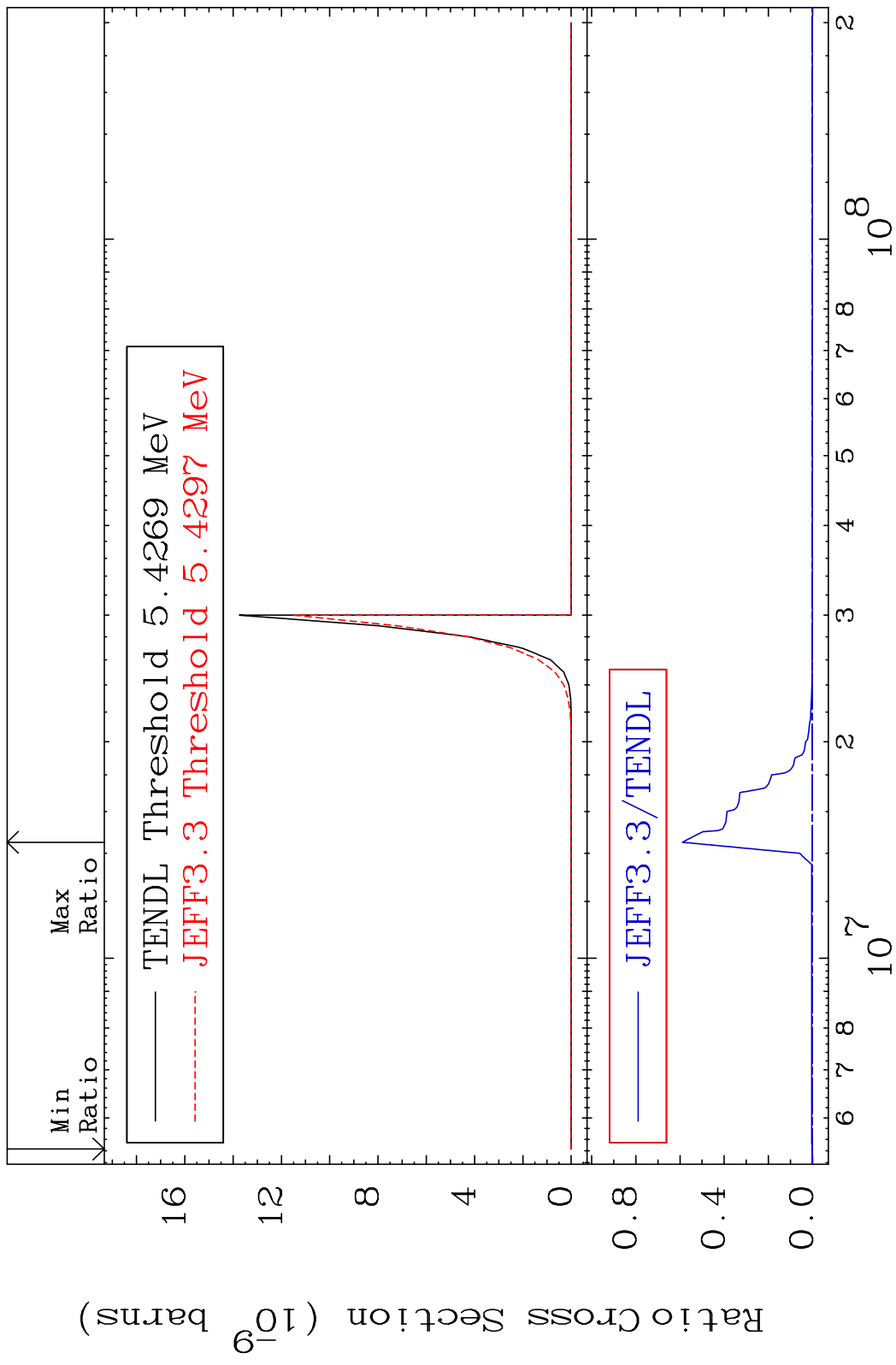
MAT 5731 (n,p) d:55-Cs-138g 57-La-140  
 Radionuclide Production Cross Section 138.01 dth 78.82 %



MAT 5731 (n, p) d:55-Cs-138m3 57-La-140  
 Radionuclide Production Cross Section 58.67 d/o 74.19 %



100 Incident Energy (eV) 57-La-140



MAT 5731 (n,d)  $\alpha$ :54-Xe-135m2 57-La-140  
 Radionuclide Production Cross Section 9999. %

