

Program Complot  
(Version 2021-1)

by

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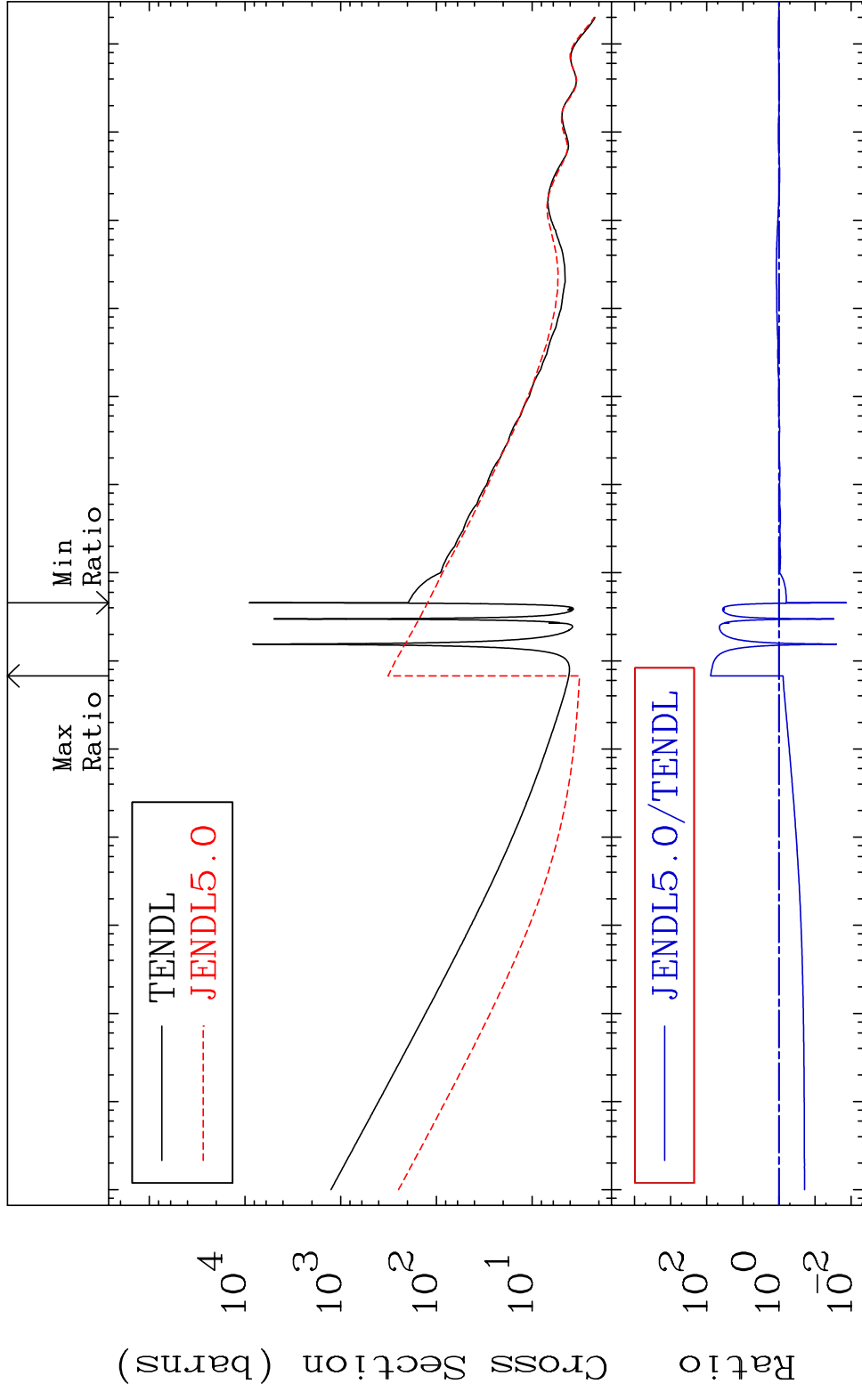
Press Mouse Button to Start

MAT 5722

57-La-137

Total

Cross Section -98.63 To 7667. %



1

Incident Energy (eV)

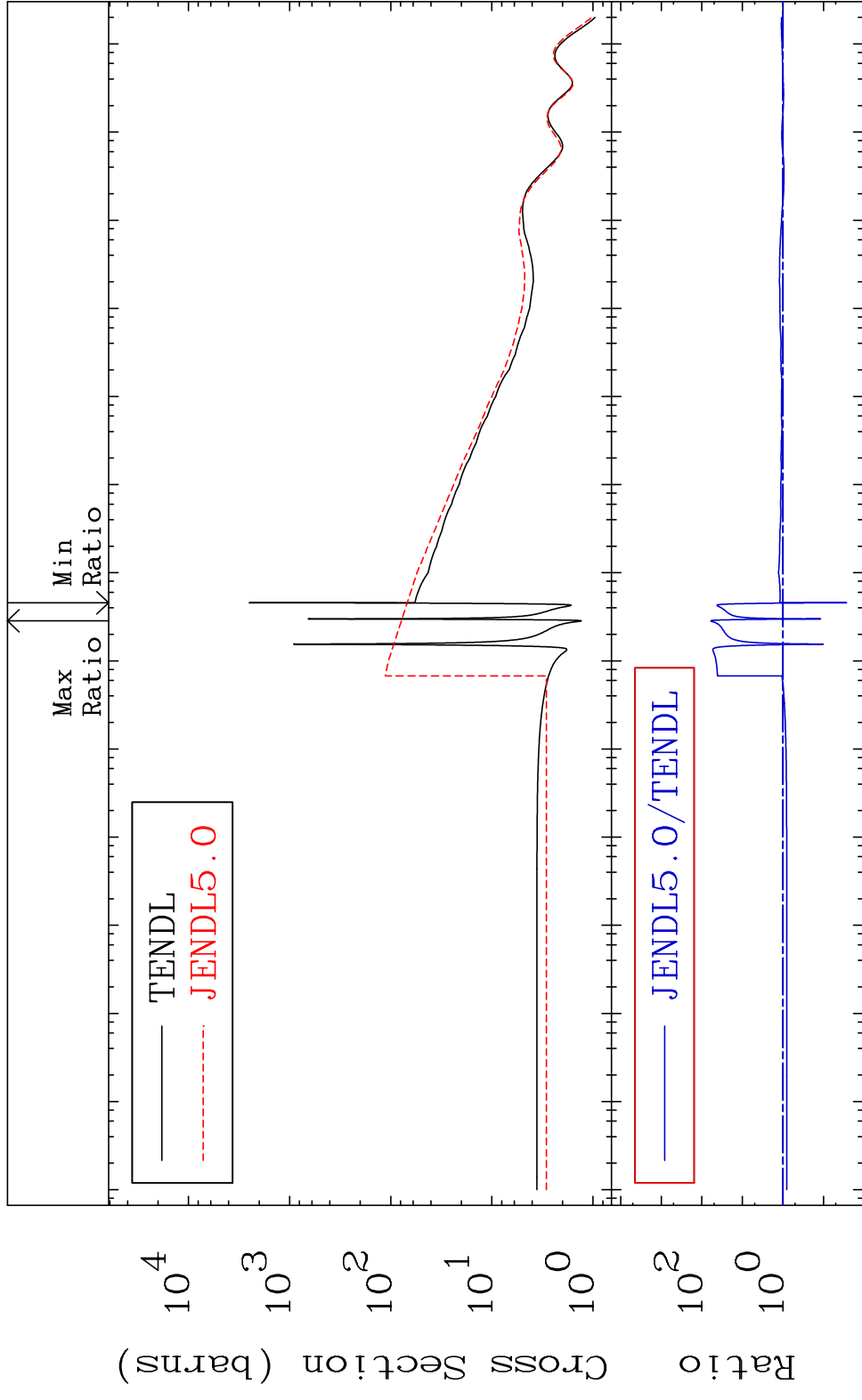
57-La-137

MAT 5722

Elastic

57-La-137

Cross Section -97.26 To 5941. %



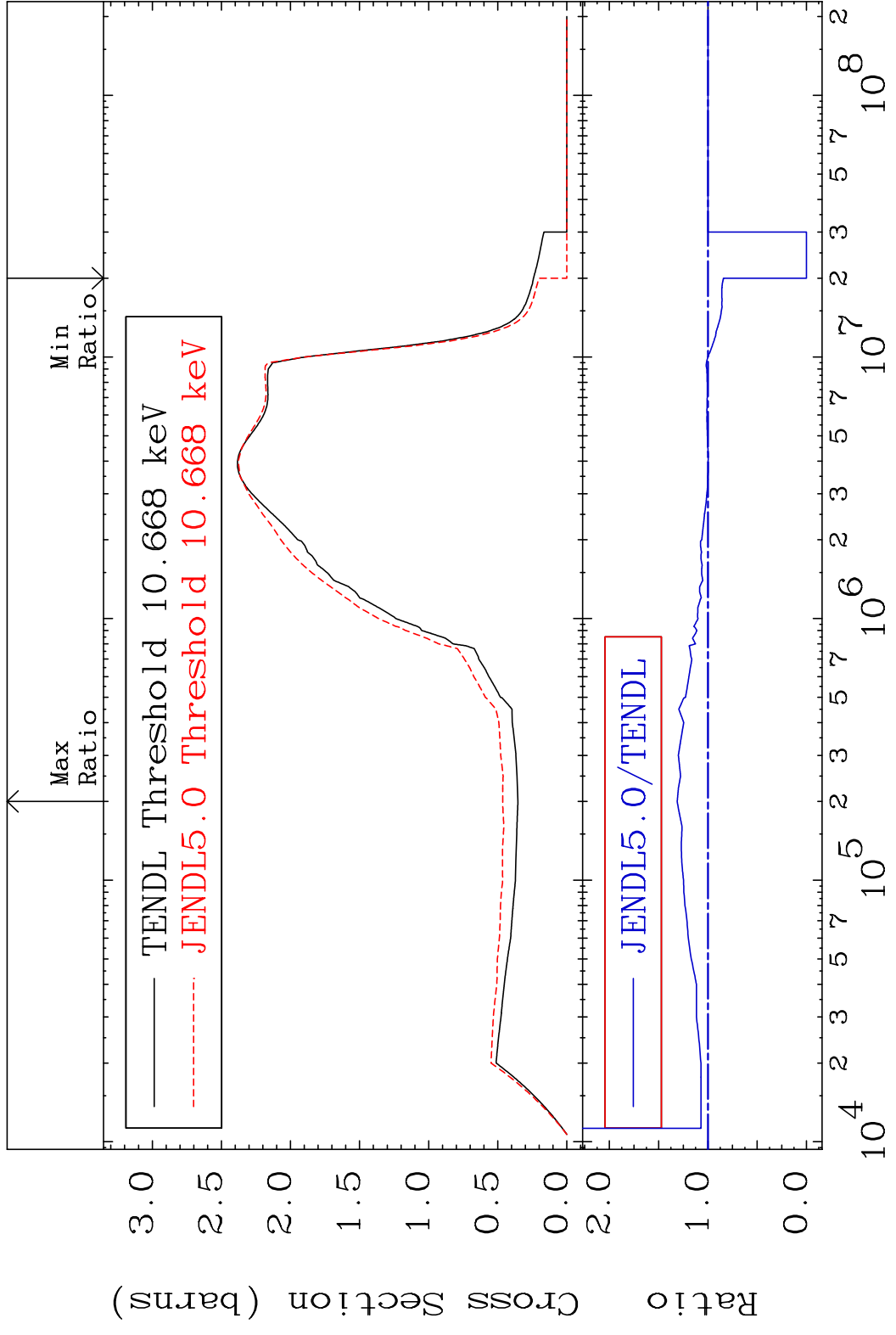
10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

2

Incident Energy (eV)

57-La-137

MAT 5722 Inelastic 57-La-137  
 Cross Section -100.0 To 31.18 %



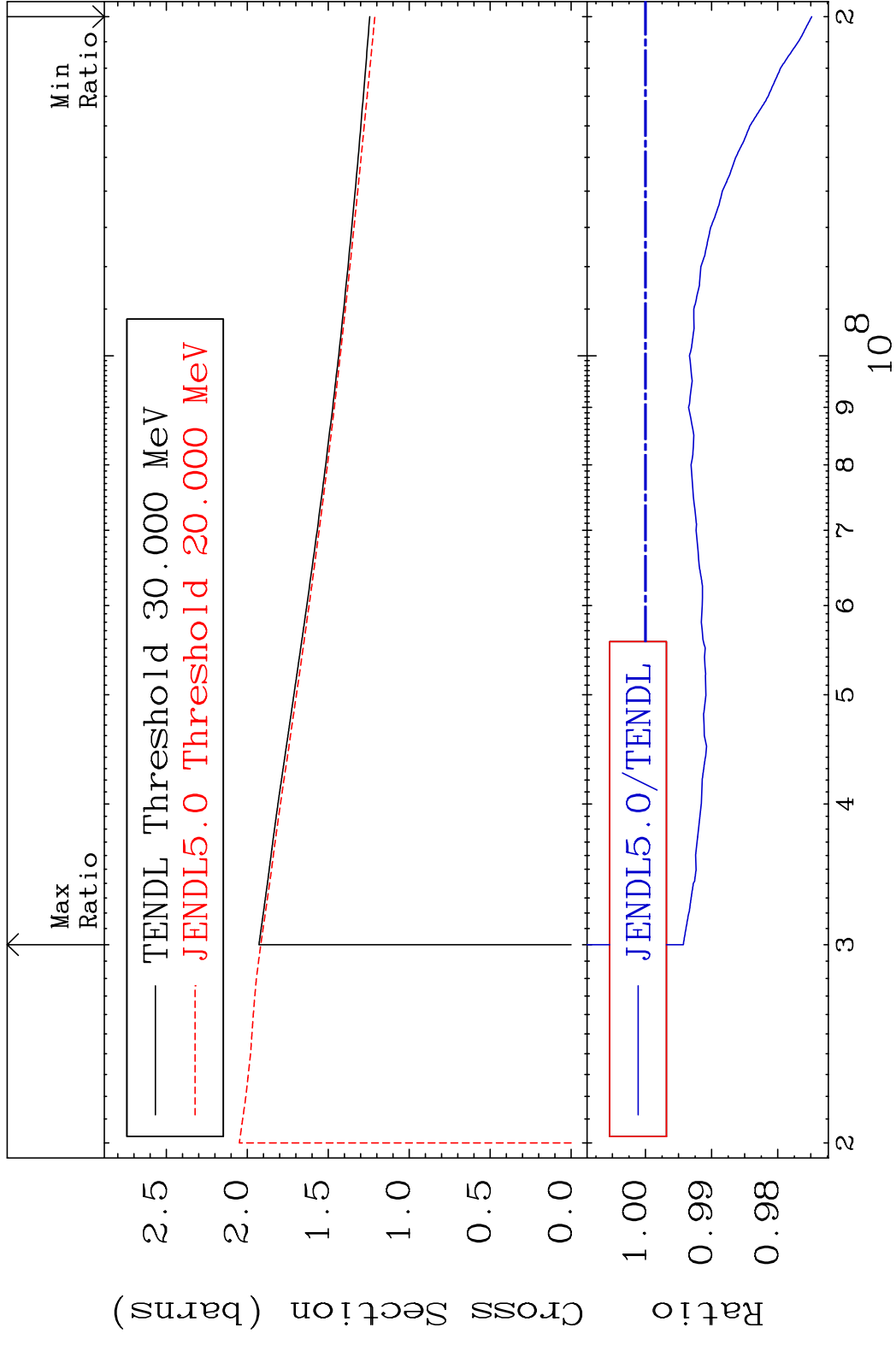
3 Incident Energy (eV) 57-La-137

MAT 5722

(n, remainder)

57-La-137

Cross Section -2.513 To -0.571%



4

Incident Energy (eV)

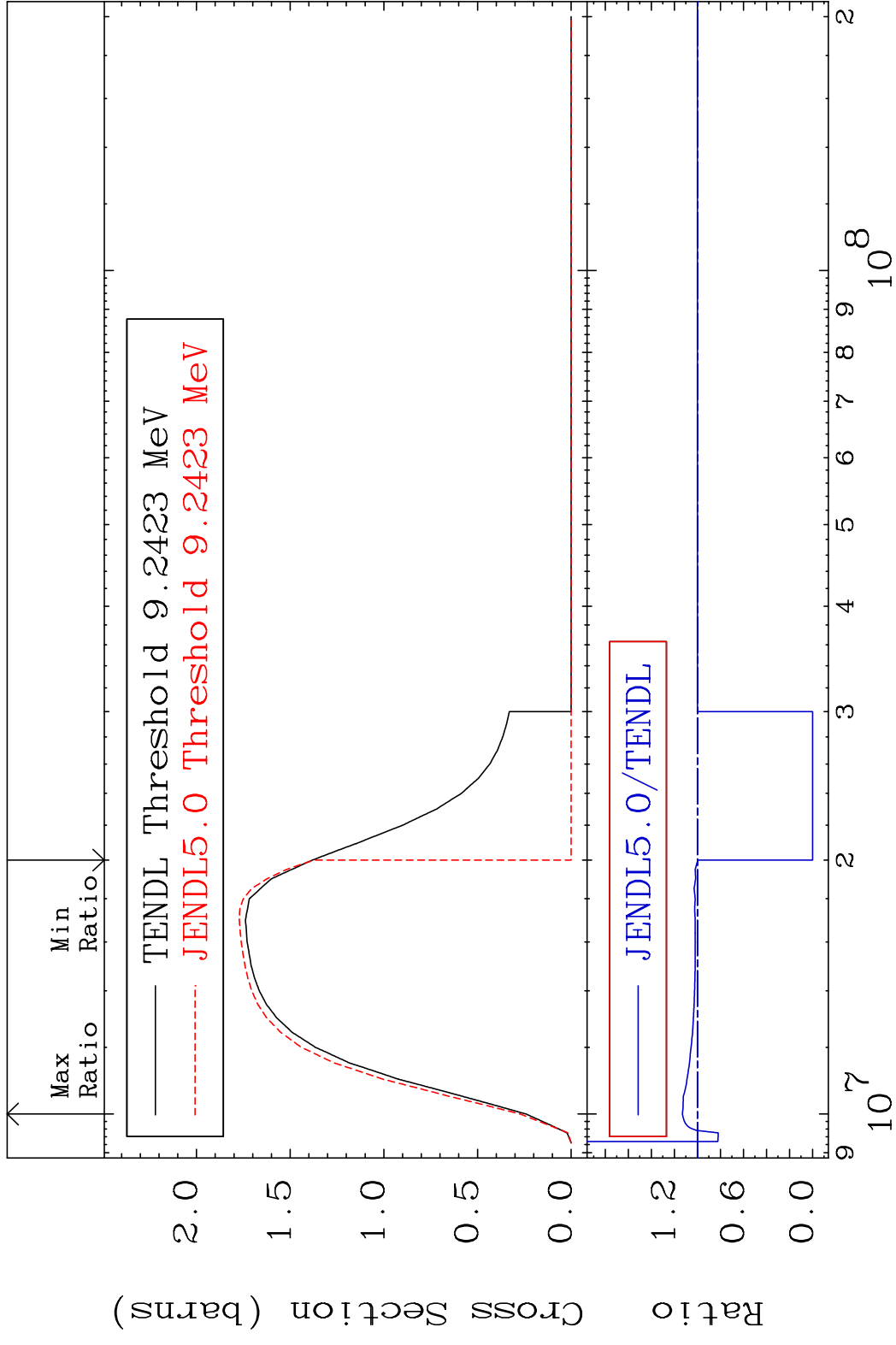
57-La-137

MAT 5722

(n,2n)

57-La-137

Cross Section -100.0 To 13.03 %



57-La-137

Incident Energy (eV)

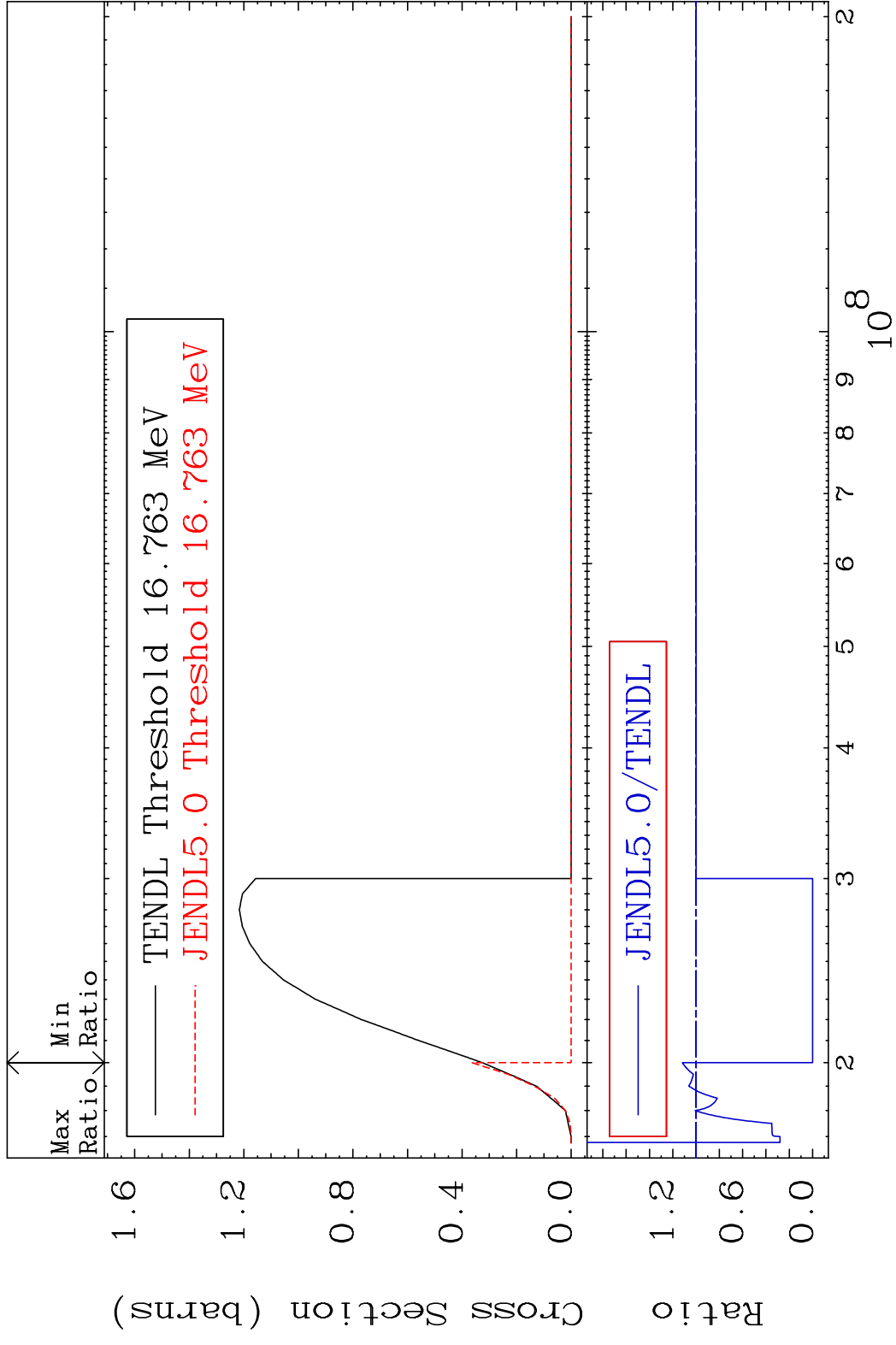
5

MAT 5722

(n,3n)

57-La-137

Cross Section -100.0 To 11.76 %

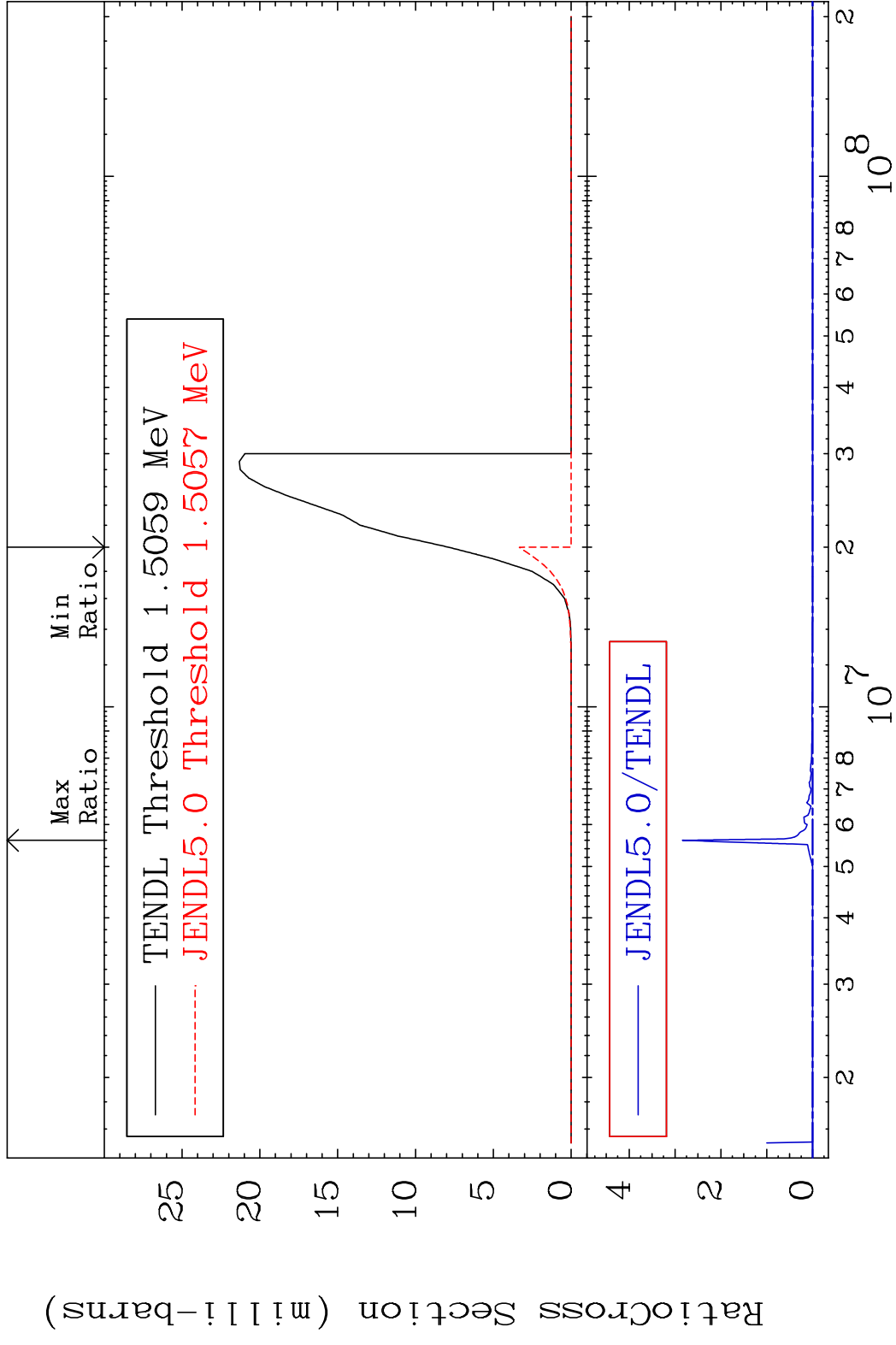


MAT 5722

(n, n')  $\alpha$

57-La-137

Cross Section -100.0 To 9999. %



7

Incident Energy (eV)

57-La-137

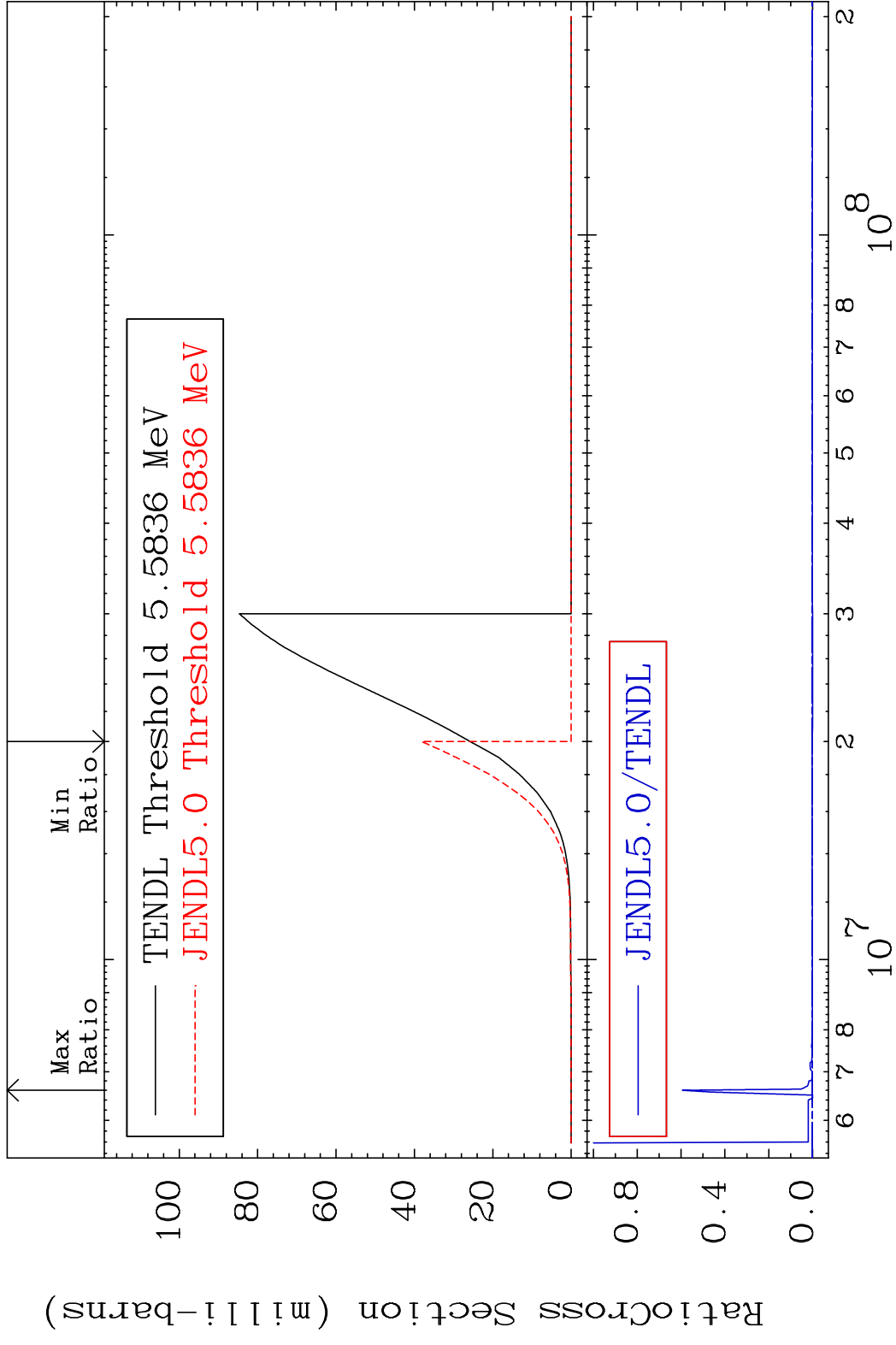


MAT 5722

57-La-137

(n, n') p

Cross Section -100.0 To 9999. %

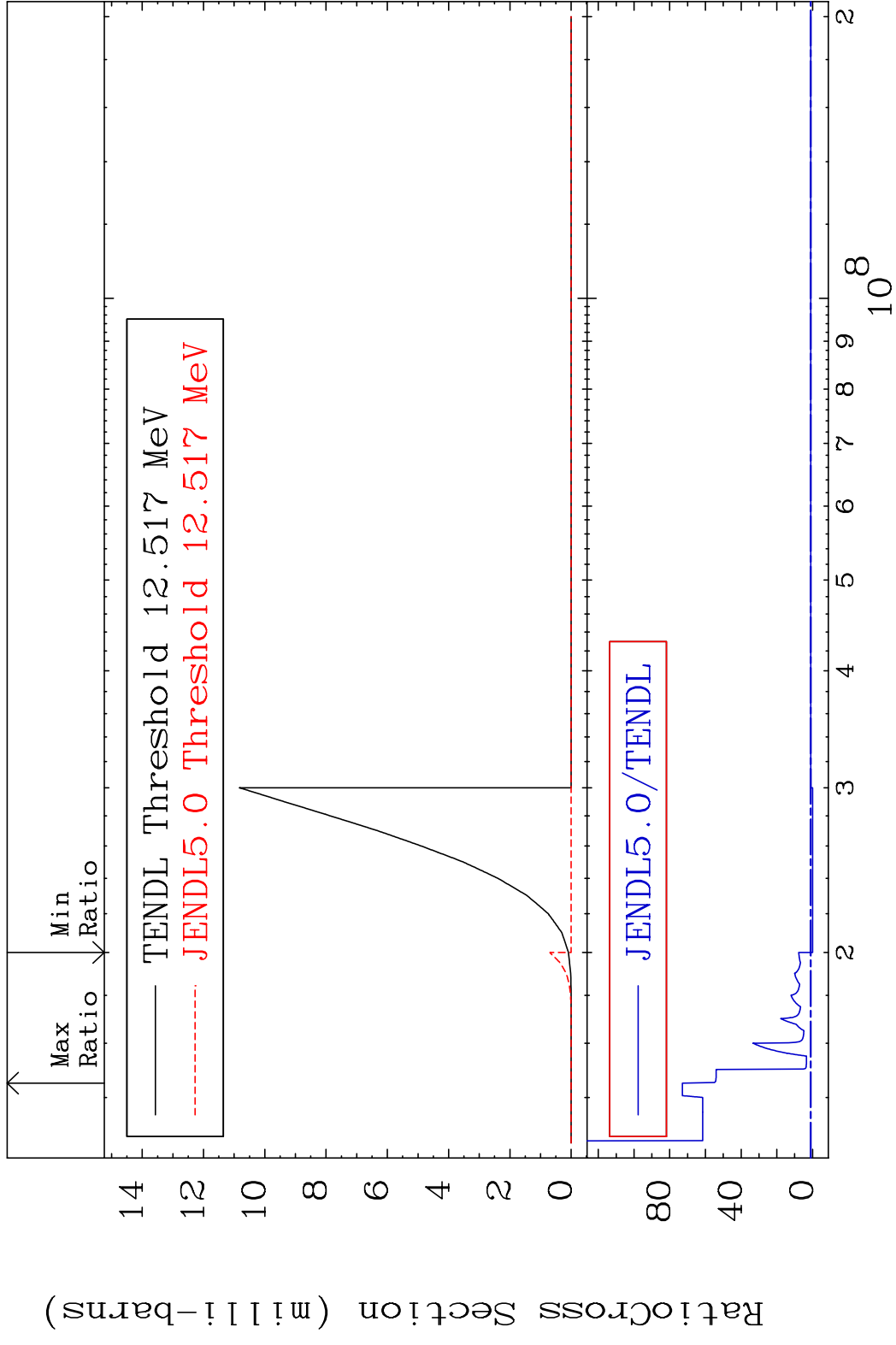


MAT 5722

(n, n') d

57-La-137

Cross Section -100.0 To 7192. %

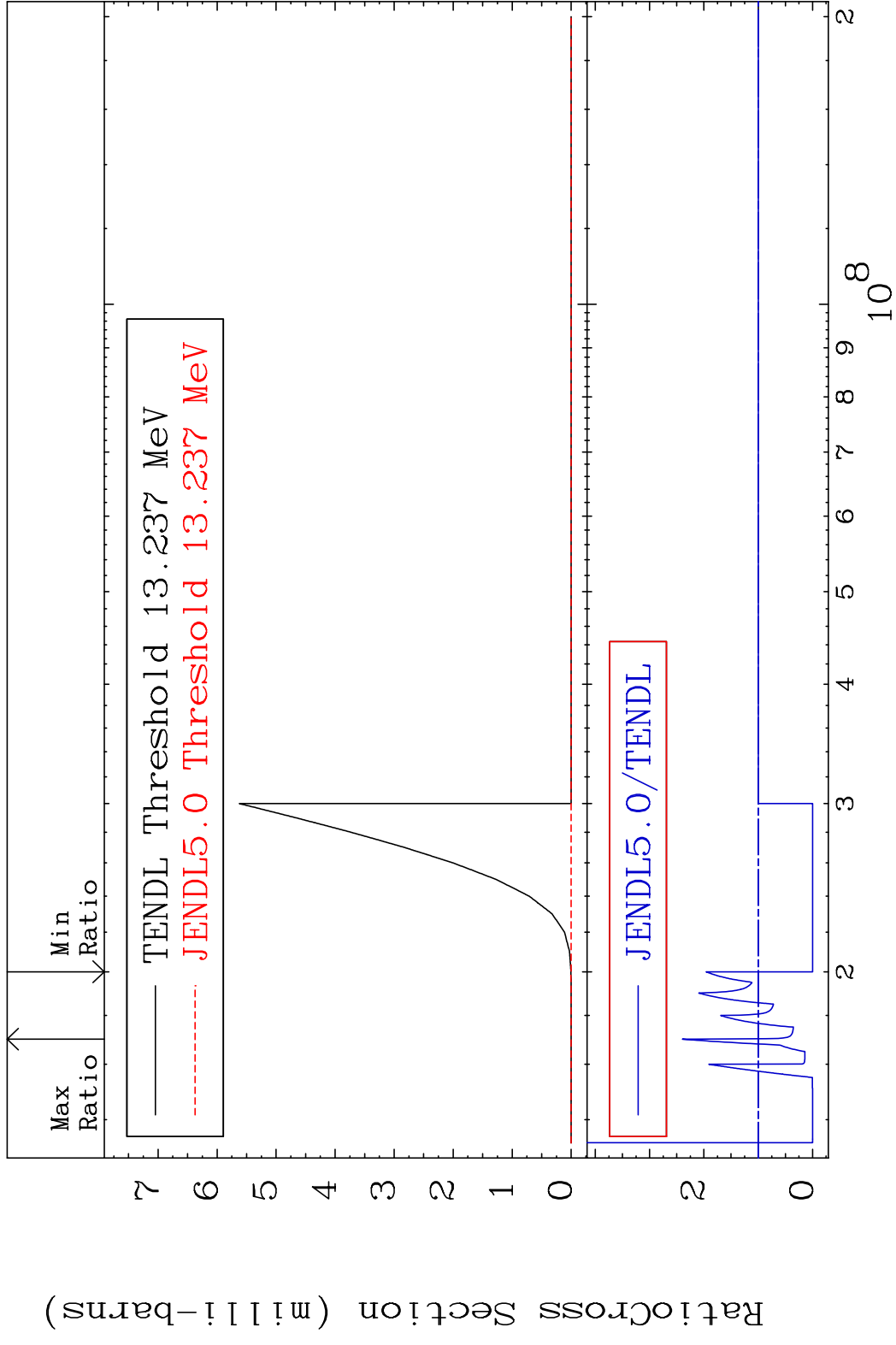


MAT 5722

(n, n') t

57-La-137

Cross Section -100.0 To 139.7 %

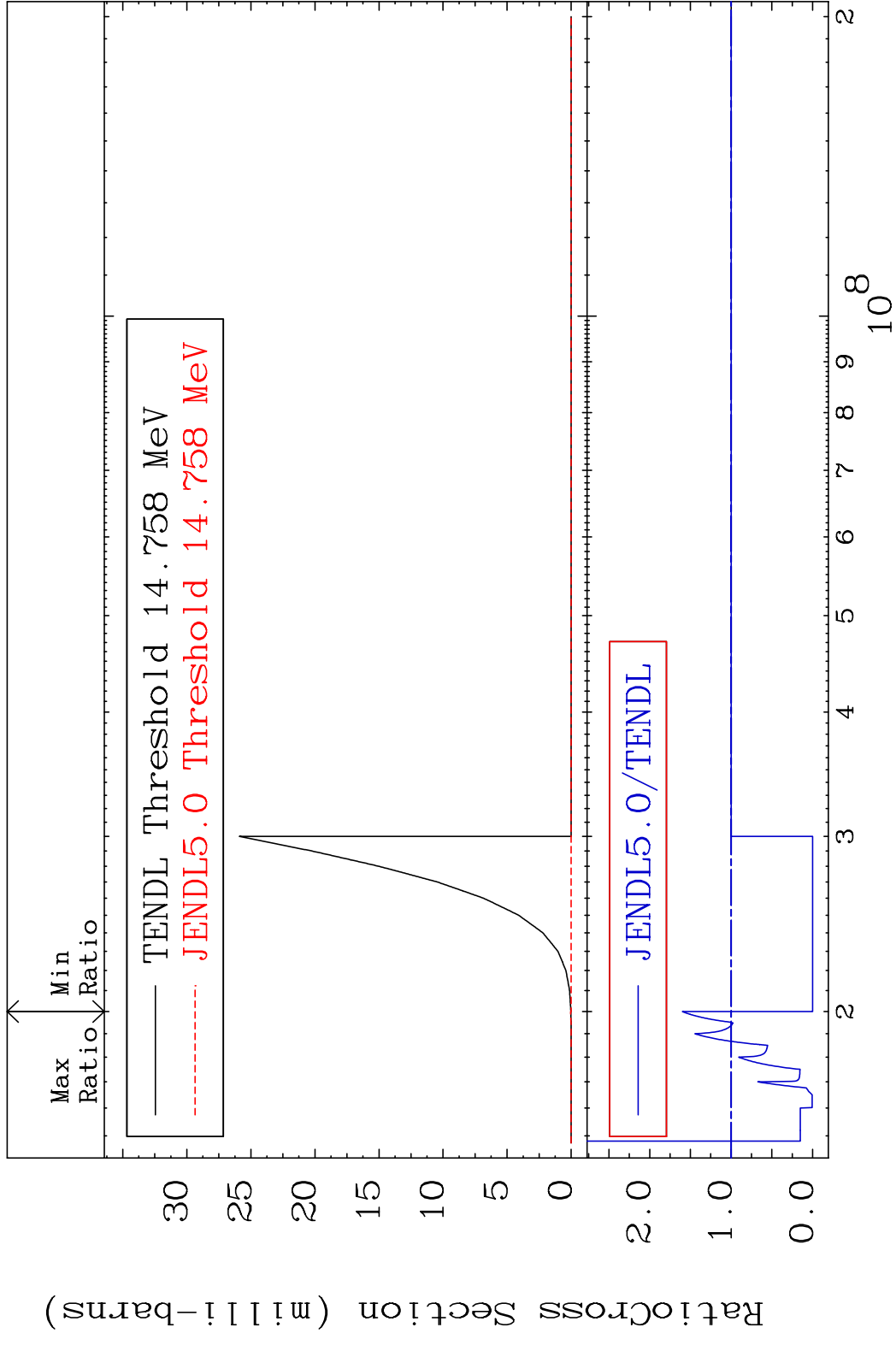


10

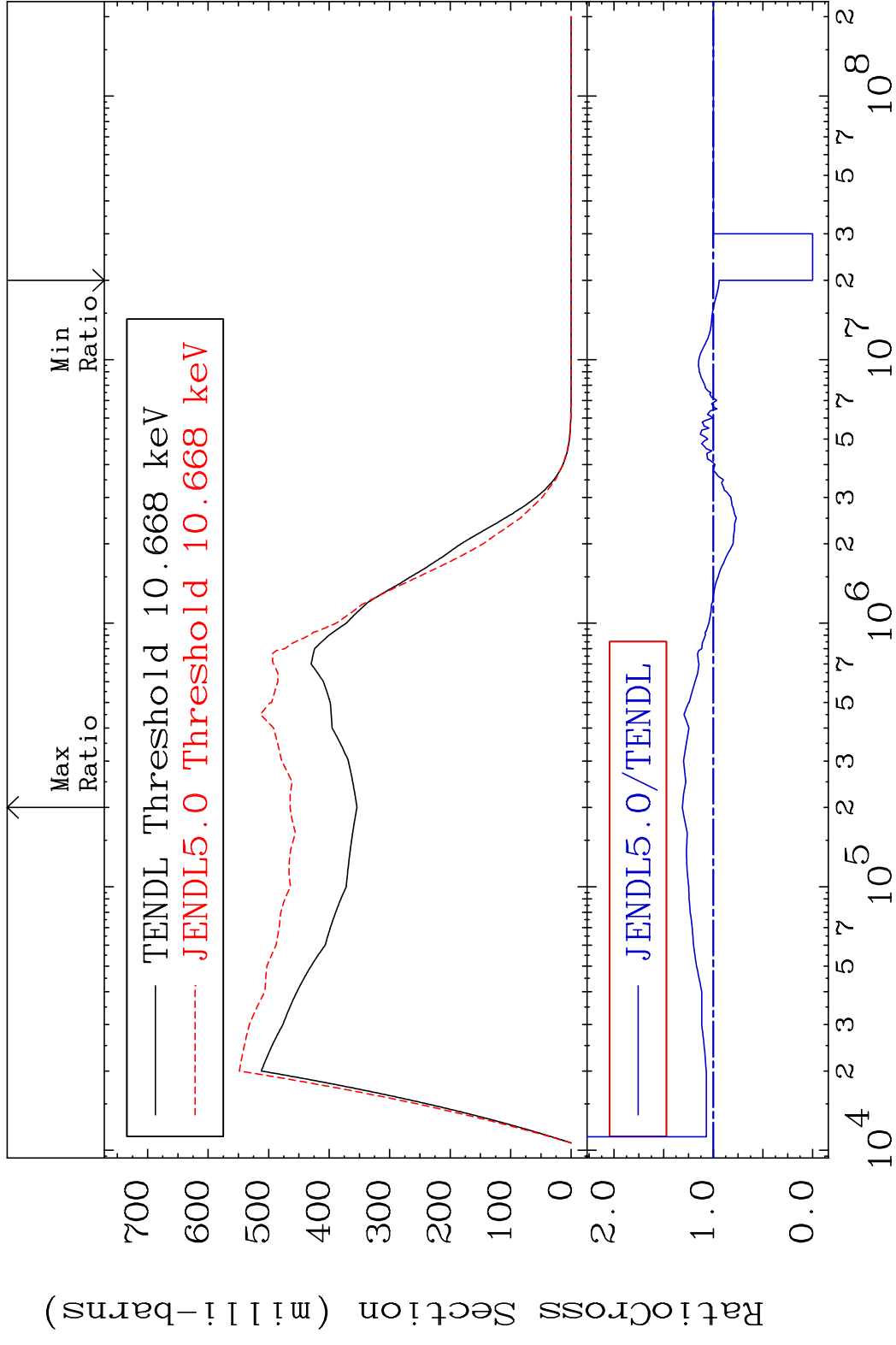
Incident Energy (eV)

57-La-137

MAT 5722 (n,2n) p 57-La-137  
 Cross Section -100.0 To 59.91 %

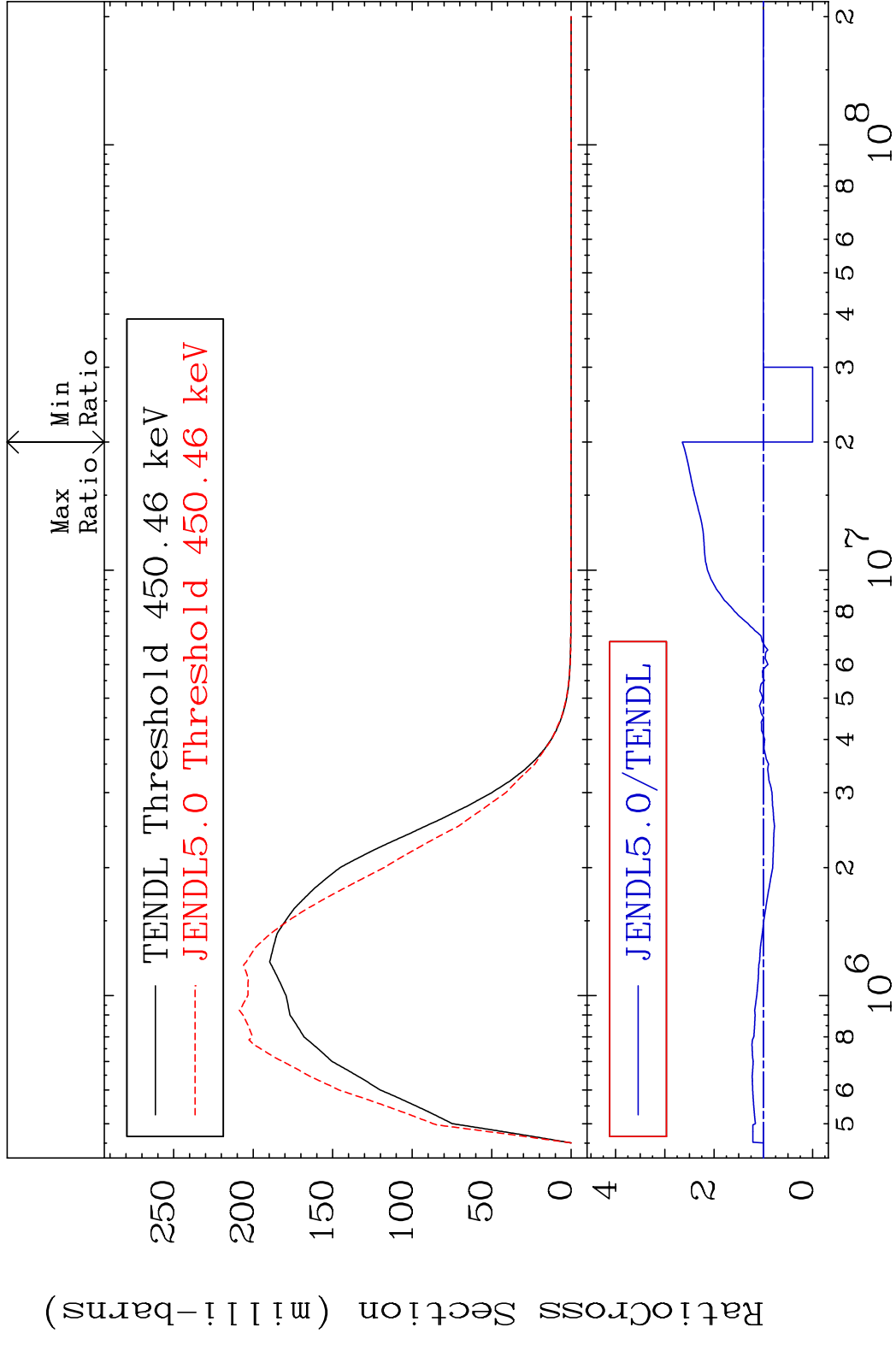


MAT 5722 MT= 51 (n, n') Level 57-La-137  
 Cross Section -100.0 To 31.18 %

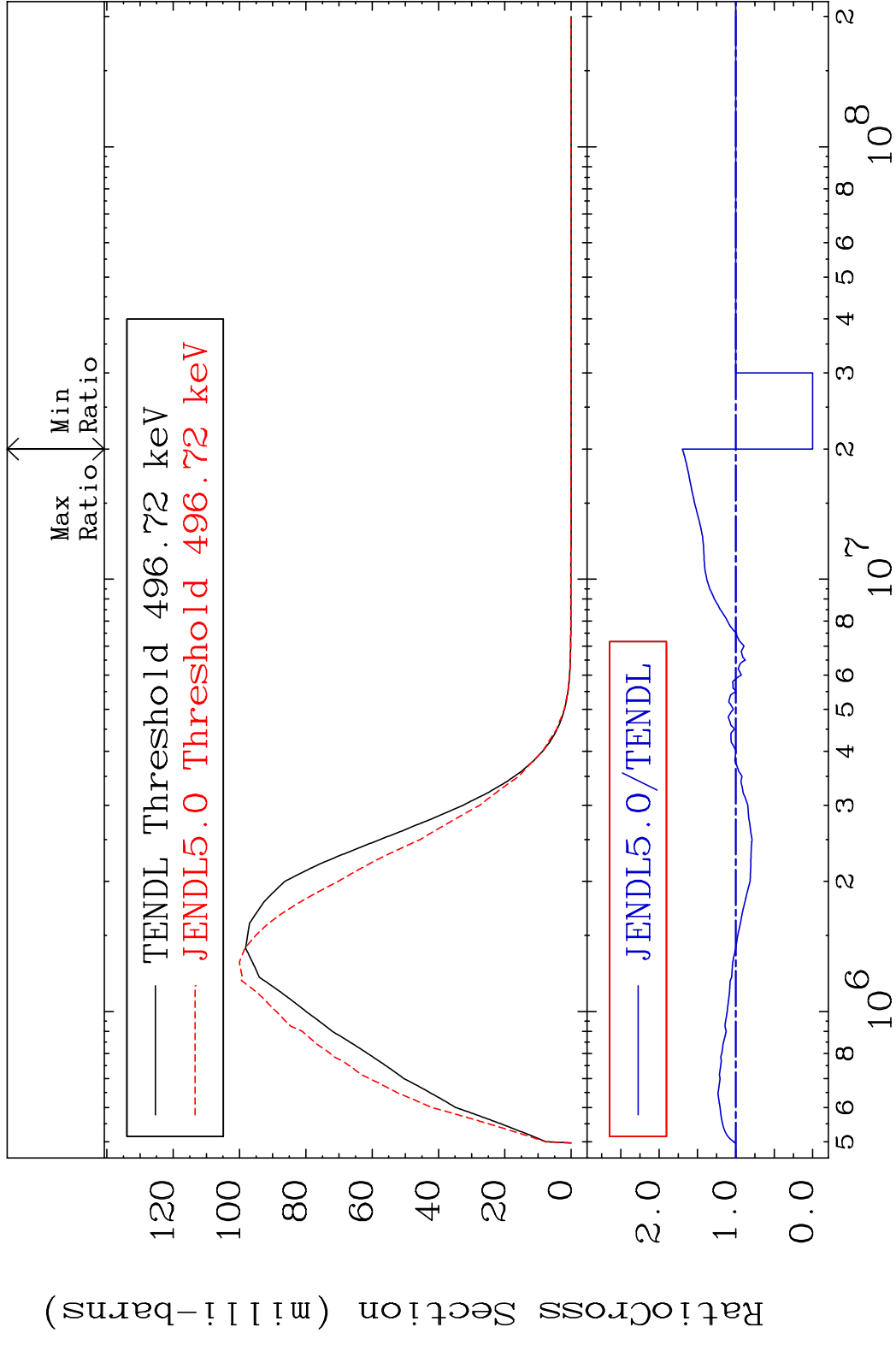


12 Incident Energy (eV) 57-La-137

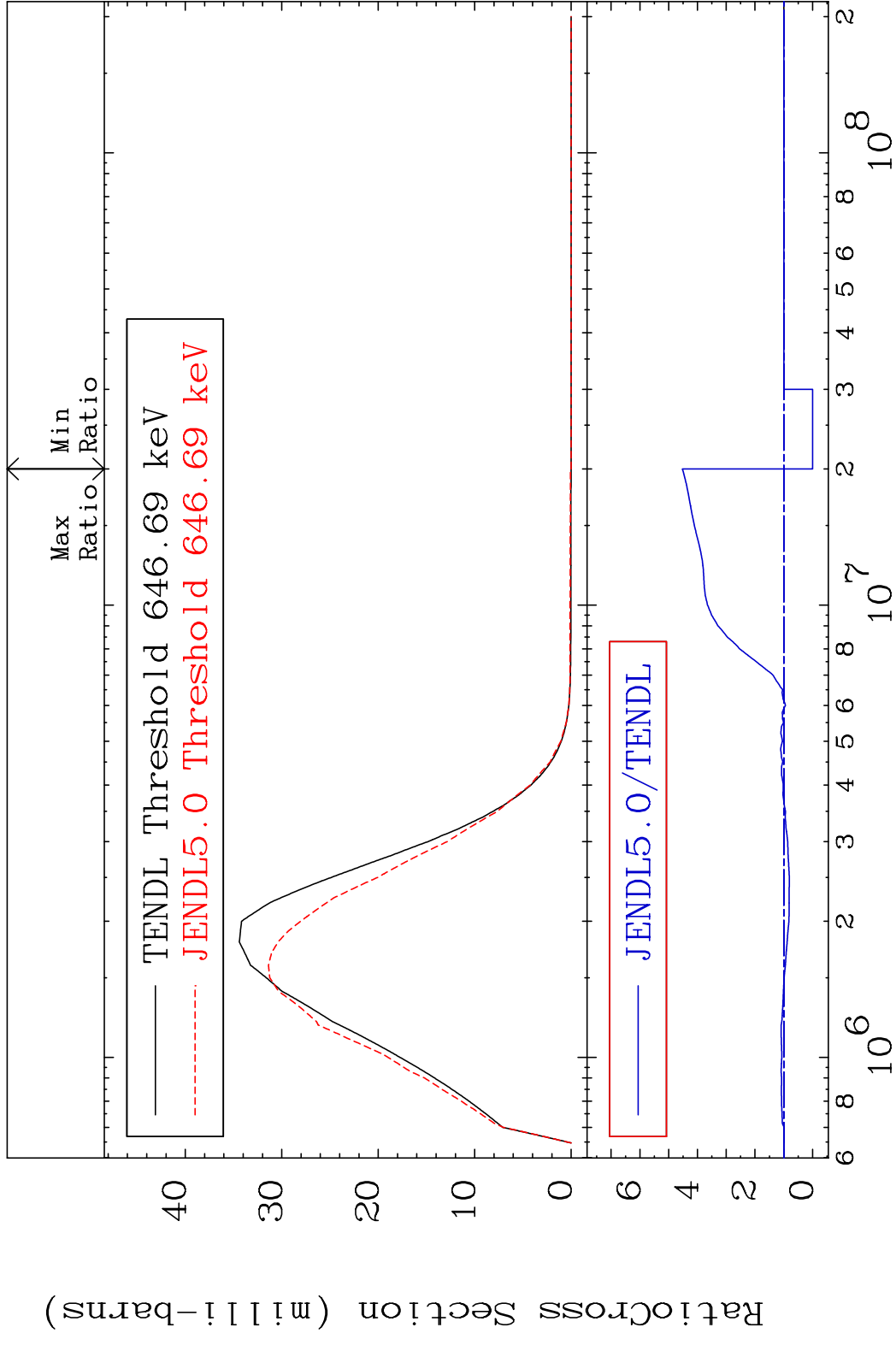
MAT 5722 MT= 52 (n, n') Level 57-La-137  
 Cross Section -100.0 To 164.5 %



MAT 5722 MT= 53 (n, n') Level 57-La-137  
 Cross Section -100.0 To 69.71 %



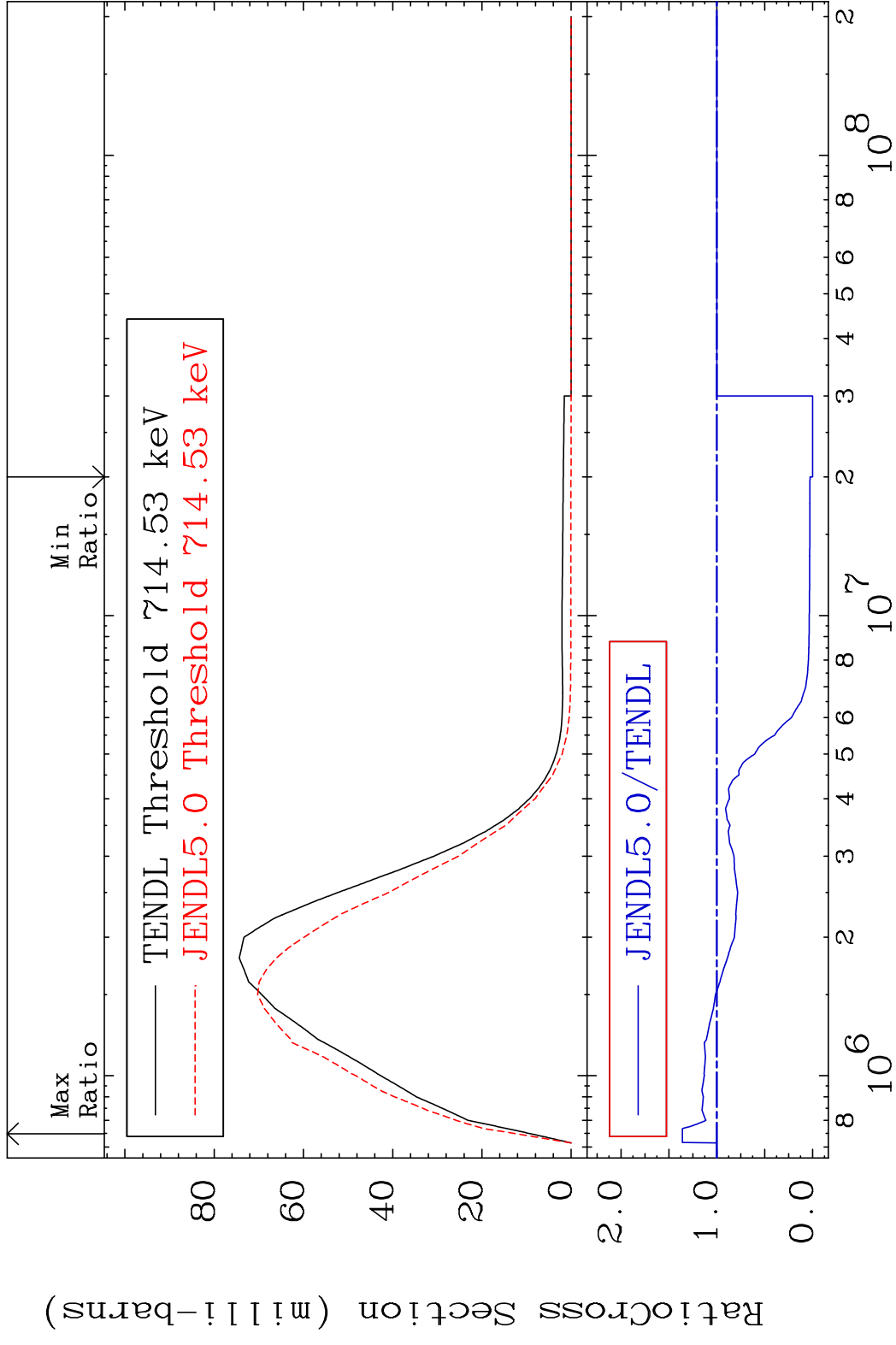
MAT 5722 MT= 54 (n, n') Level 57-La-137  
 Cross Section -100.0 To 352.5 %



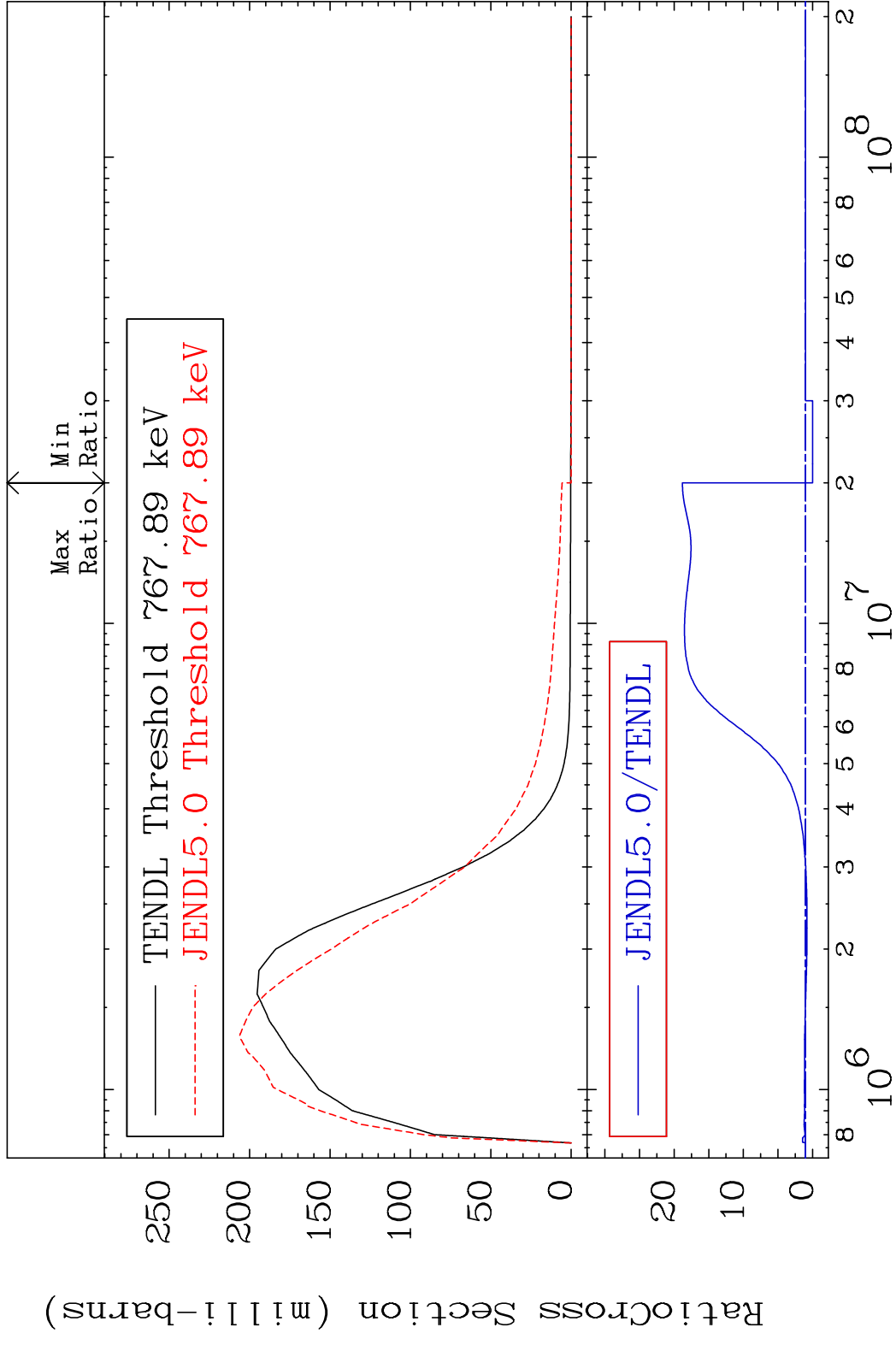
15 Incident Energy (eV) 57-La-137



MAT 5722 MT= 55 (n, n') Level 57-La-137  
 Cross Section -100.0 To 35.95 %

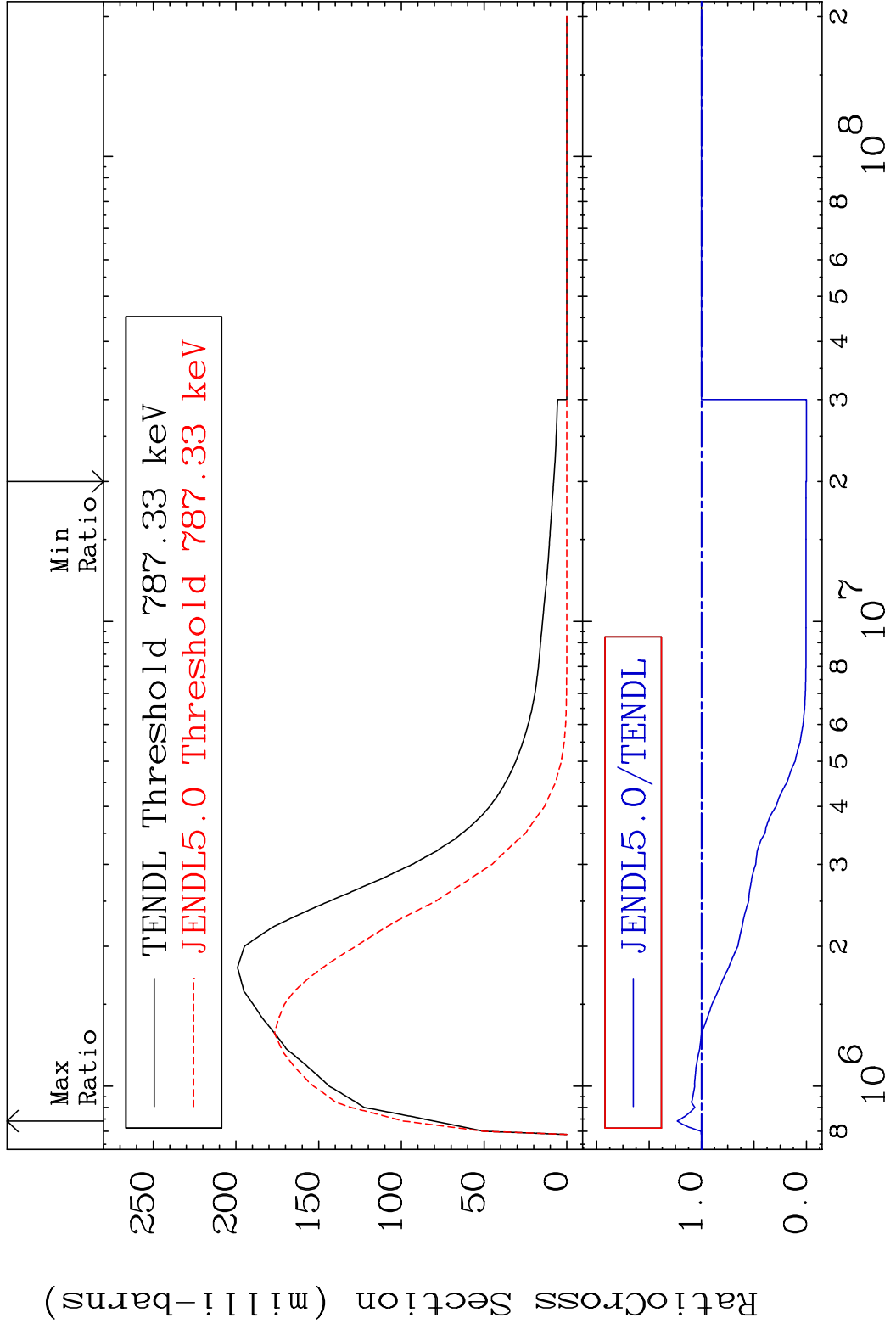


MAT 5722 MT= 56 (n, n') Level 57-La-137  
 Cross Section -100.0 To 1781. %



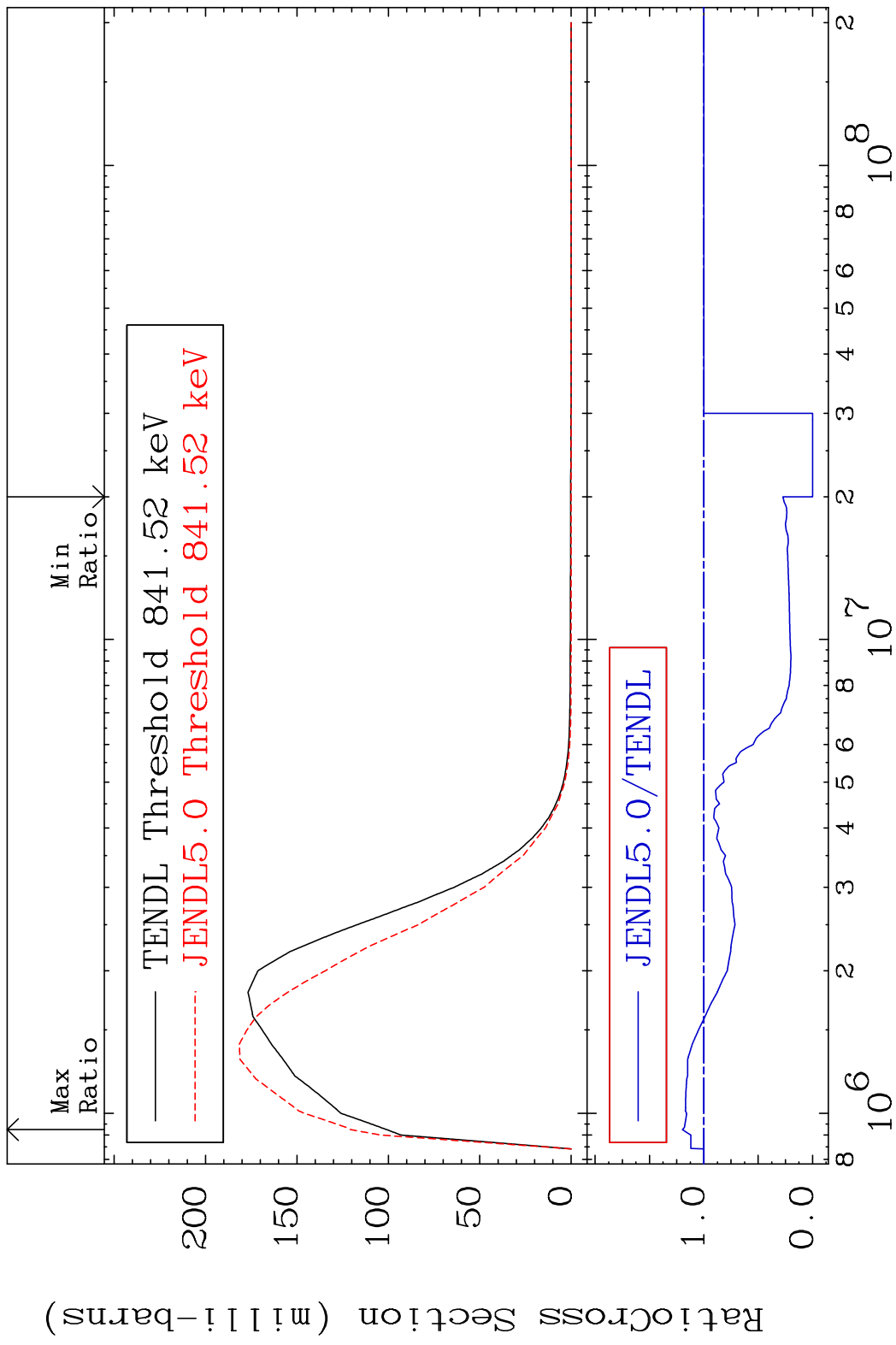
17 1781. % 57-La-137

MAT 5722 MT= 57 (n, n') Level 57-La-137  
 Cross Section -100.0 To 23.23 %



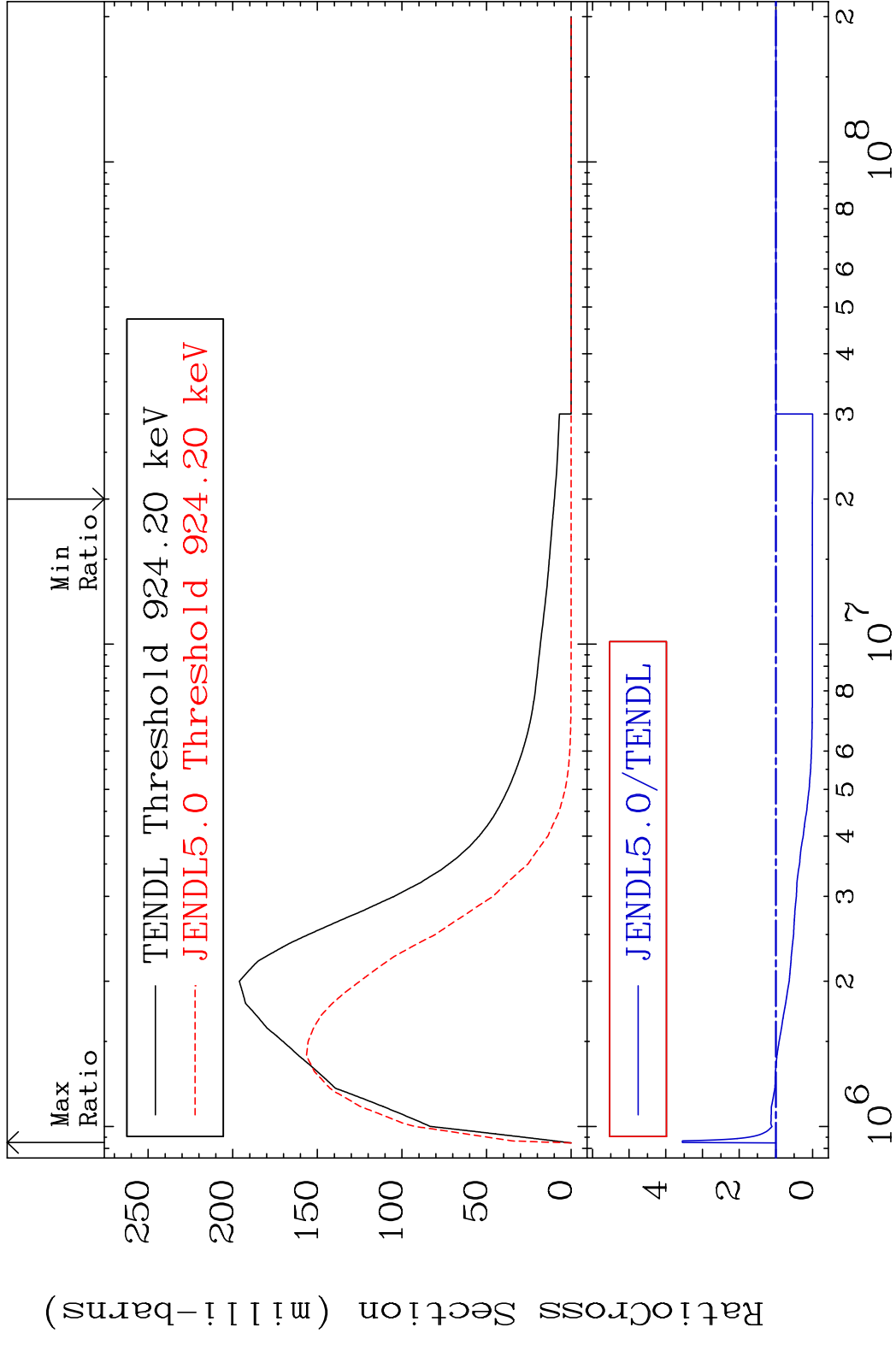
18 Incident Energy (eV) 57-La-137

MAT 5722 MT= 58 (n, n') Level 57-La-137  
 Cross Section -100.0 To 19.78 %



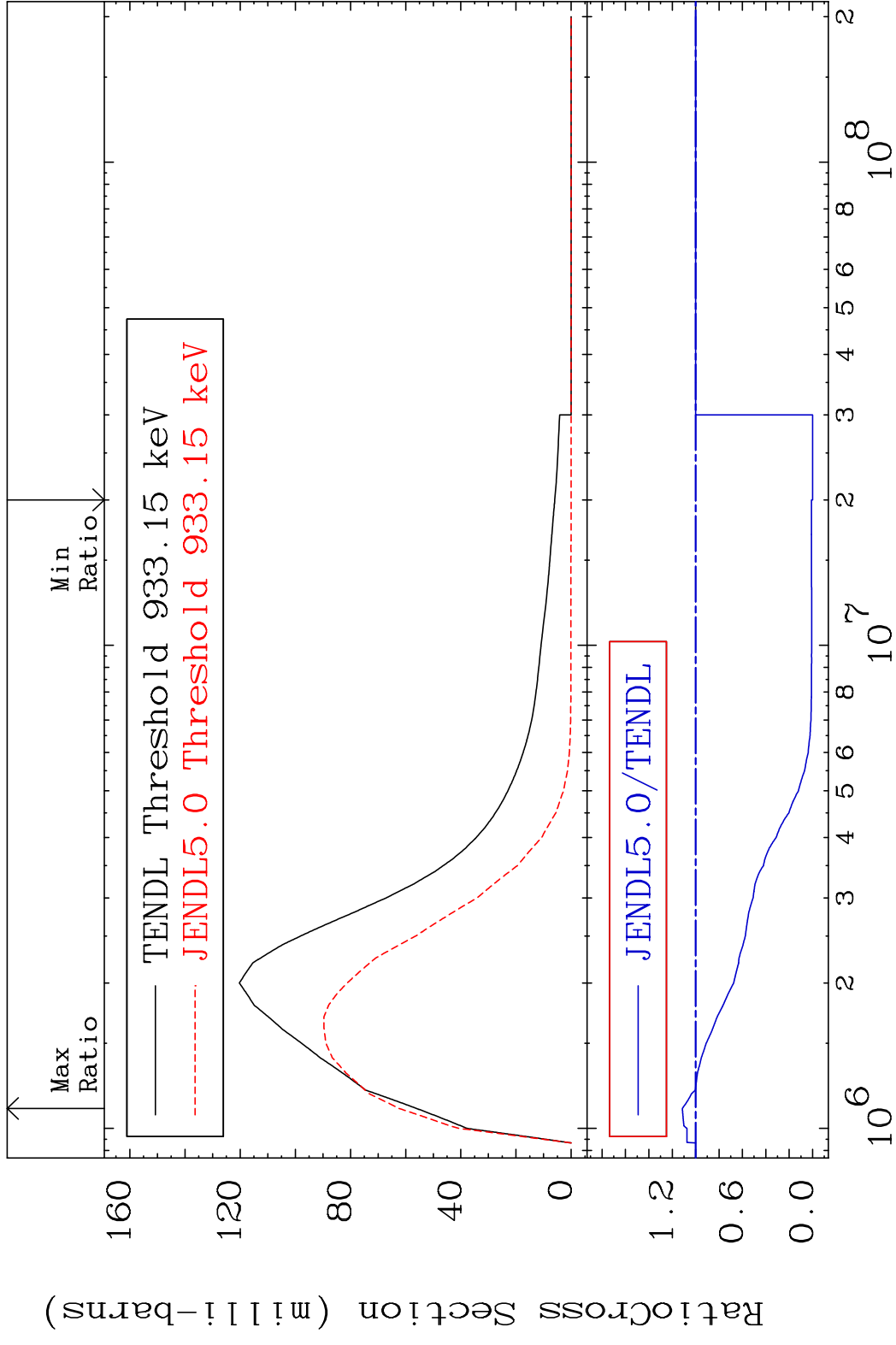
19 19 Incident Energy (eV) 57-La-137

MAT 5722 MT= 59 (n, n') Level 57-La-137  
 Cross Section -100.0 To 254.9 %



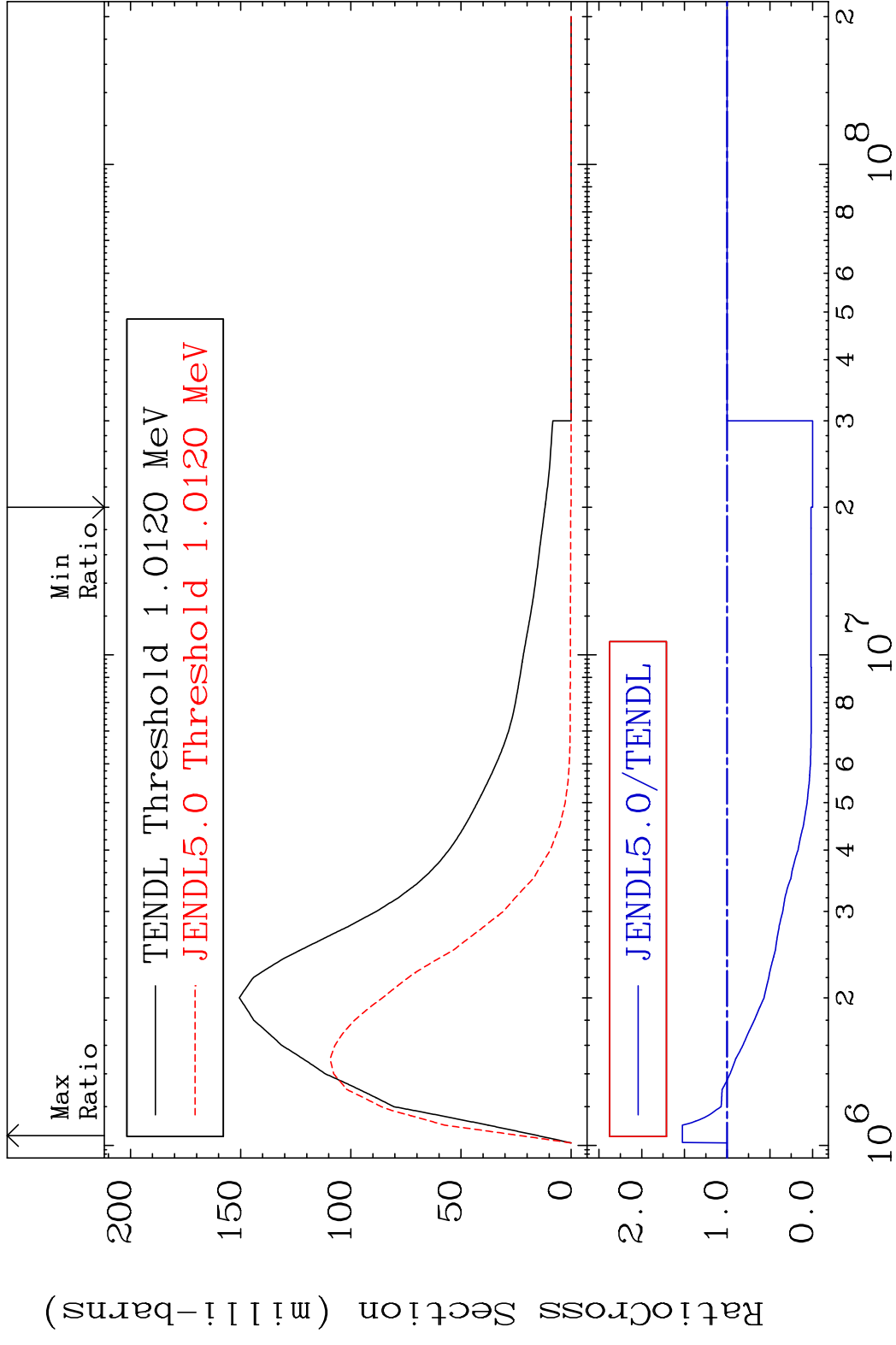
20 Incident Energy (eV) 57-La-137

MAT 5722 MT= 60 (n, n') Level 57-La-137  
 Cross Section -100.0 To 11.36 %



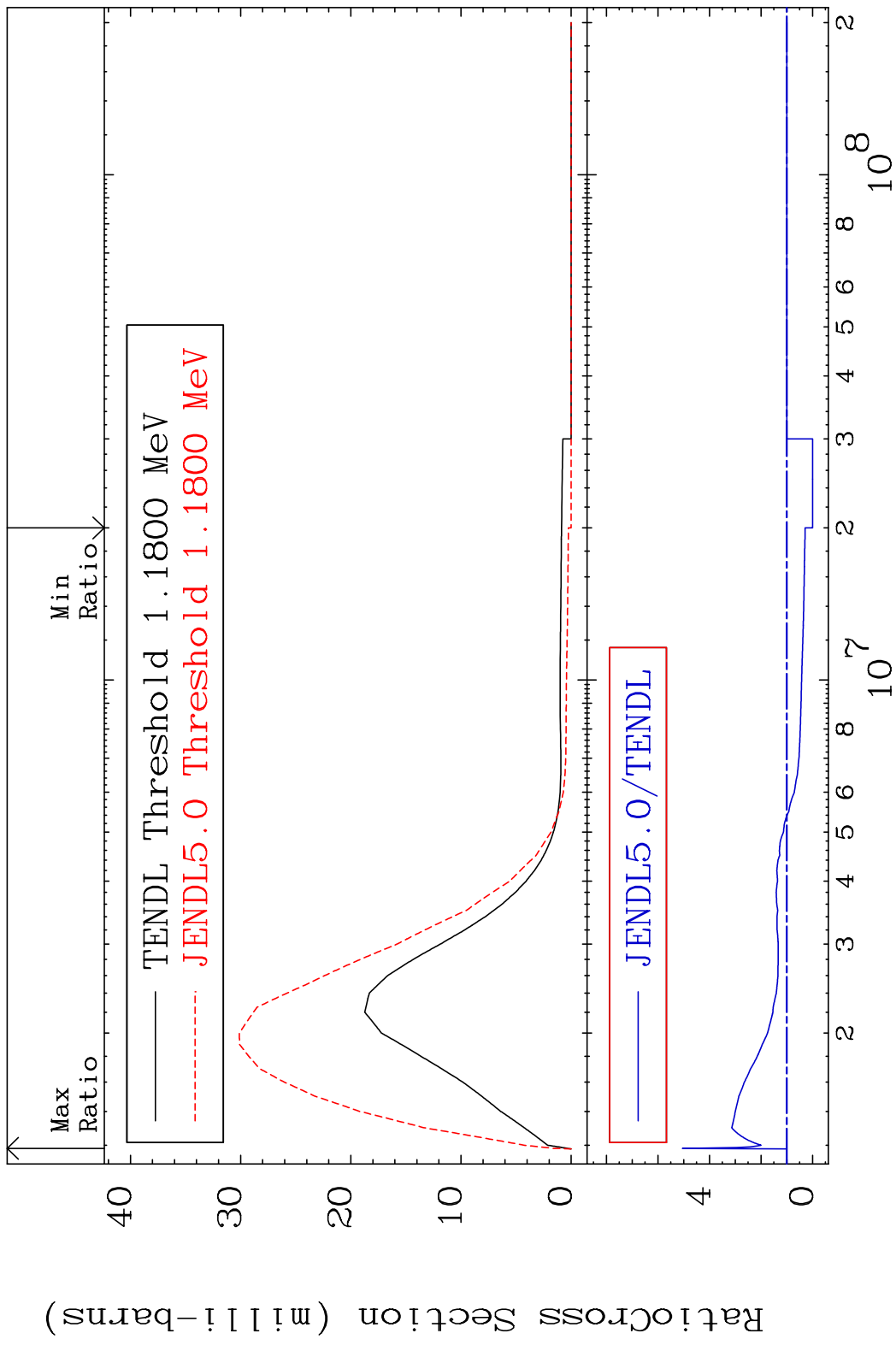
21 Incident Energy (eV) 57-La-137

MAT 5722 MT= 61 (n, n') Level 57-La-137  
 Cross Section -100.0 To 52.44 %



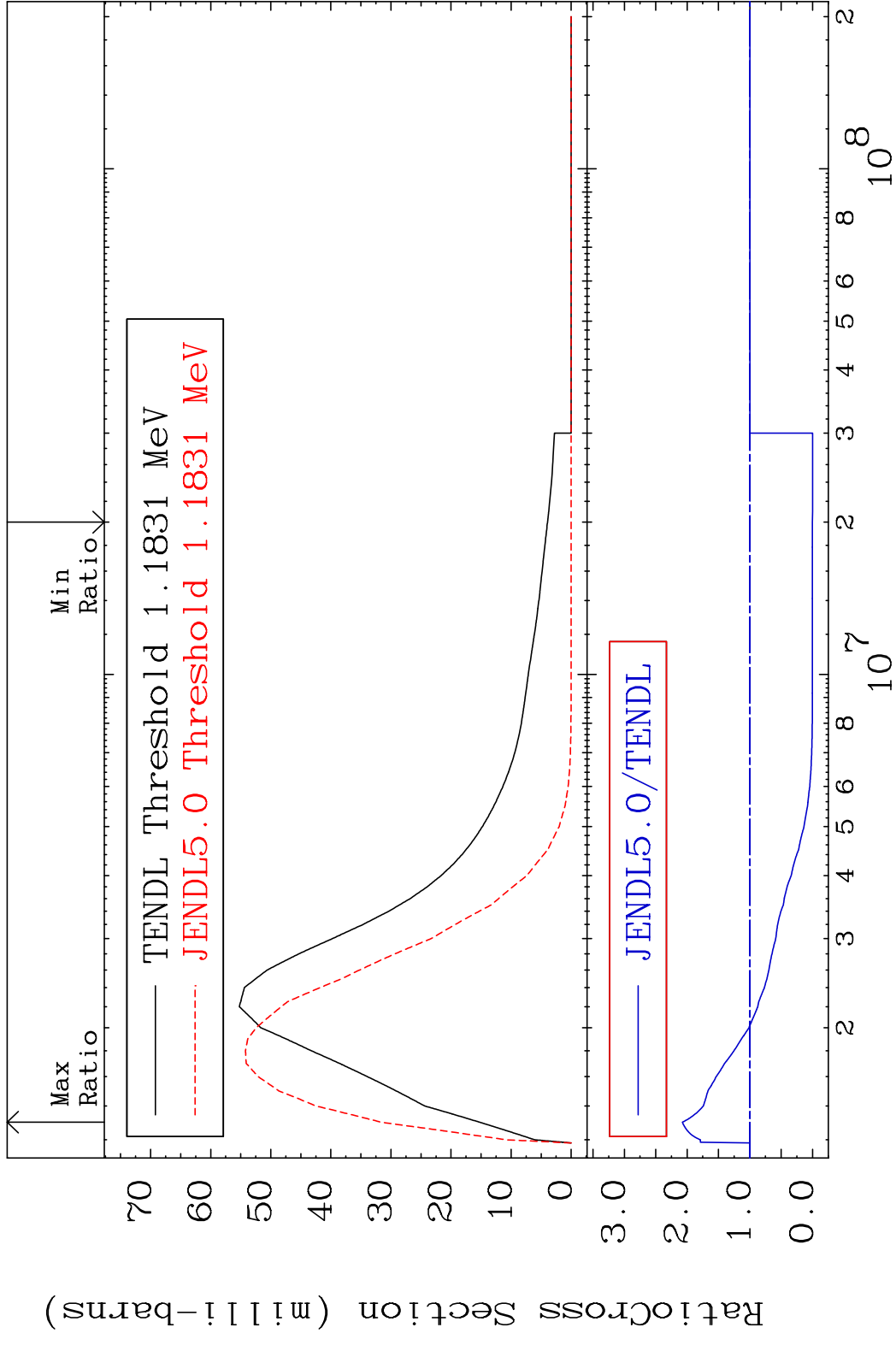
22 57-La-137

MAT 5722 MT= 62 (n, n') Level 57-La-137  
 Cross Section -100.0 To 405.2 %





MAT 5722 MT= 63 (n, n') Level 57-La-137  
 Cross Section -100.0 To 107.6 %

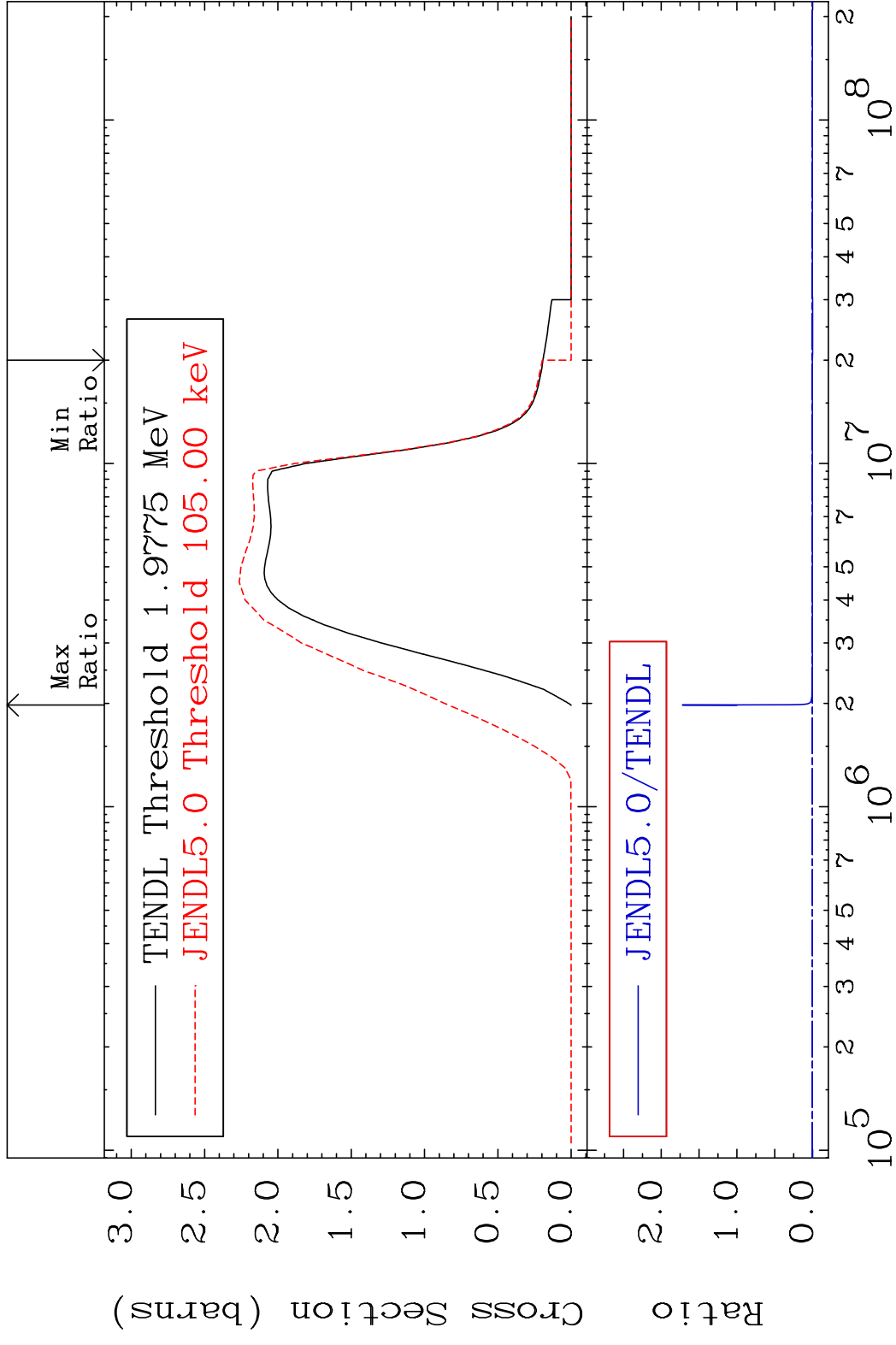


MAT 5722

(n,n') Continuum

57-La-137

Cross Section -100.0 To 9999. %



25

Incident Energy (eV)

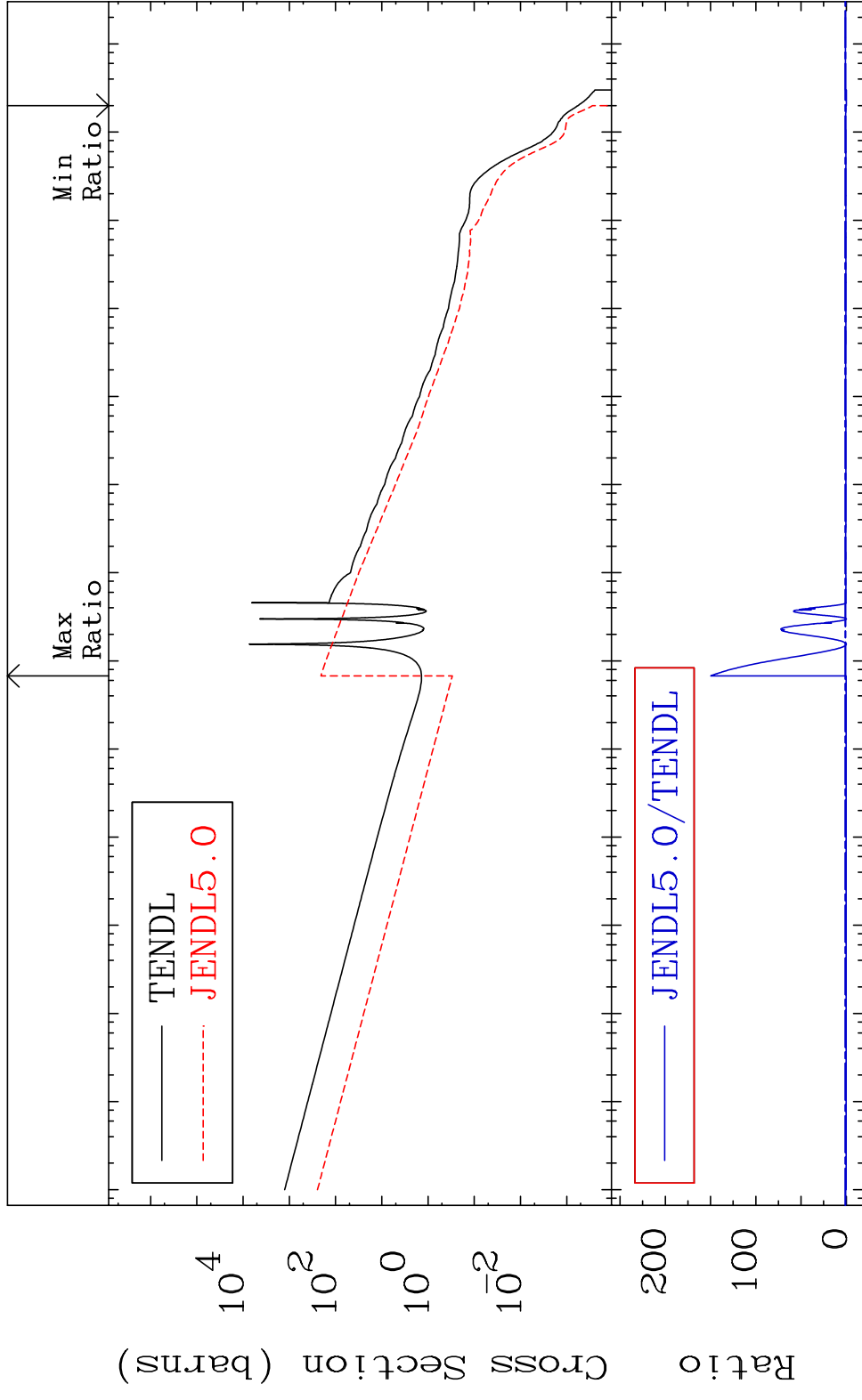
57-La-137

MAT 5722

57-La-137

(n,  $\gamma$ )

Cross Section -100.0 To 9999. %

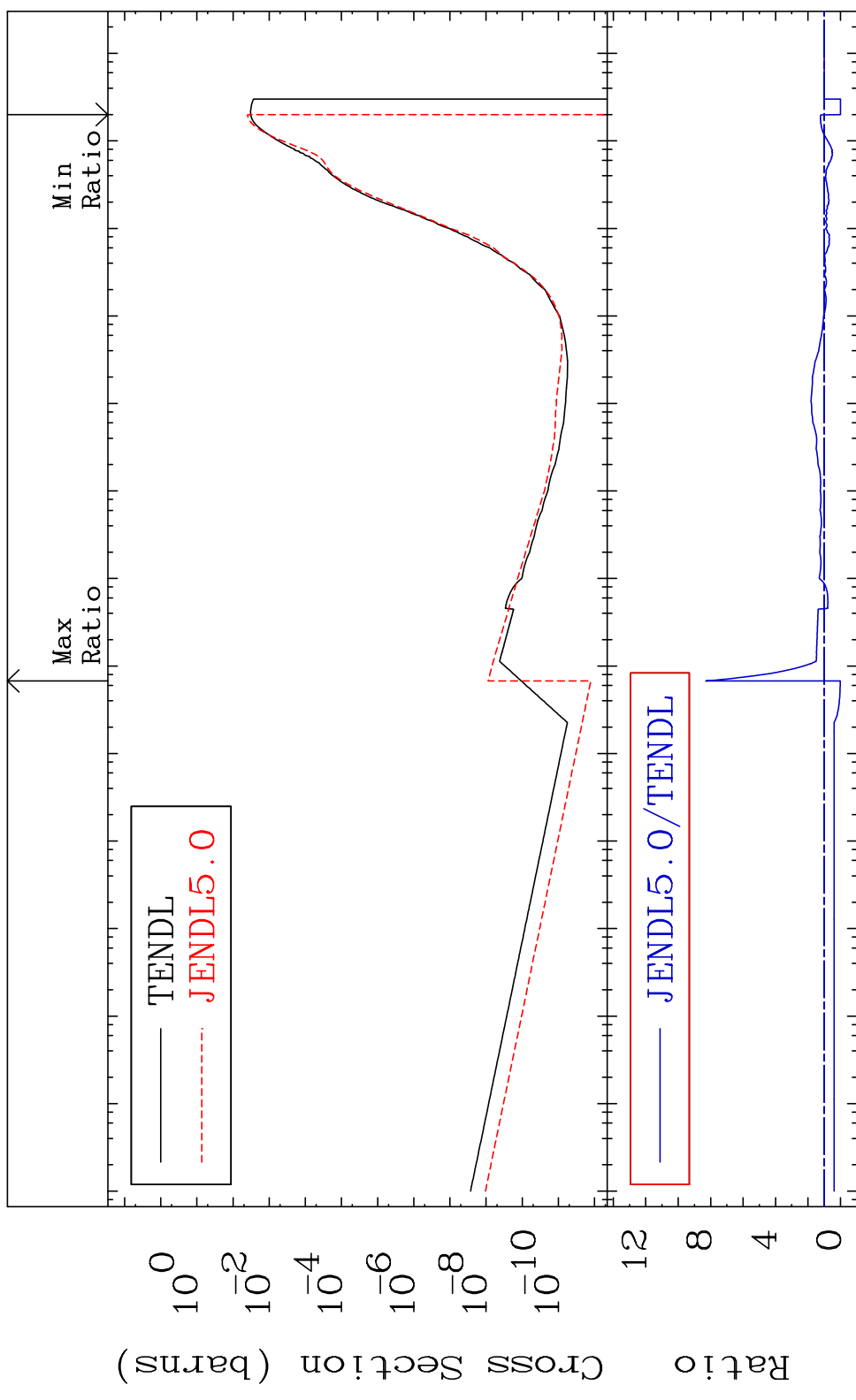


MAT 5722

(n, p)

57-La-137

Cross Section -100.0 To 730.0 %

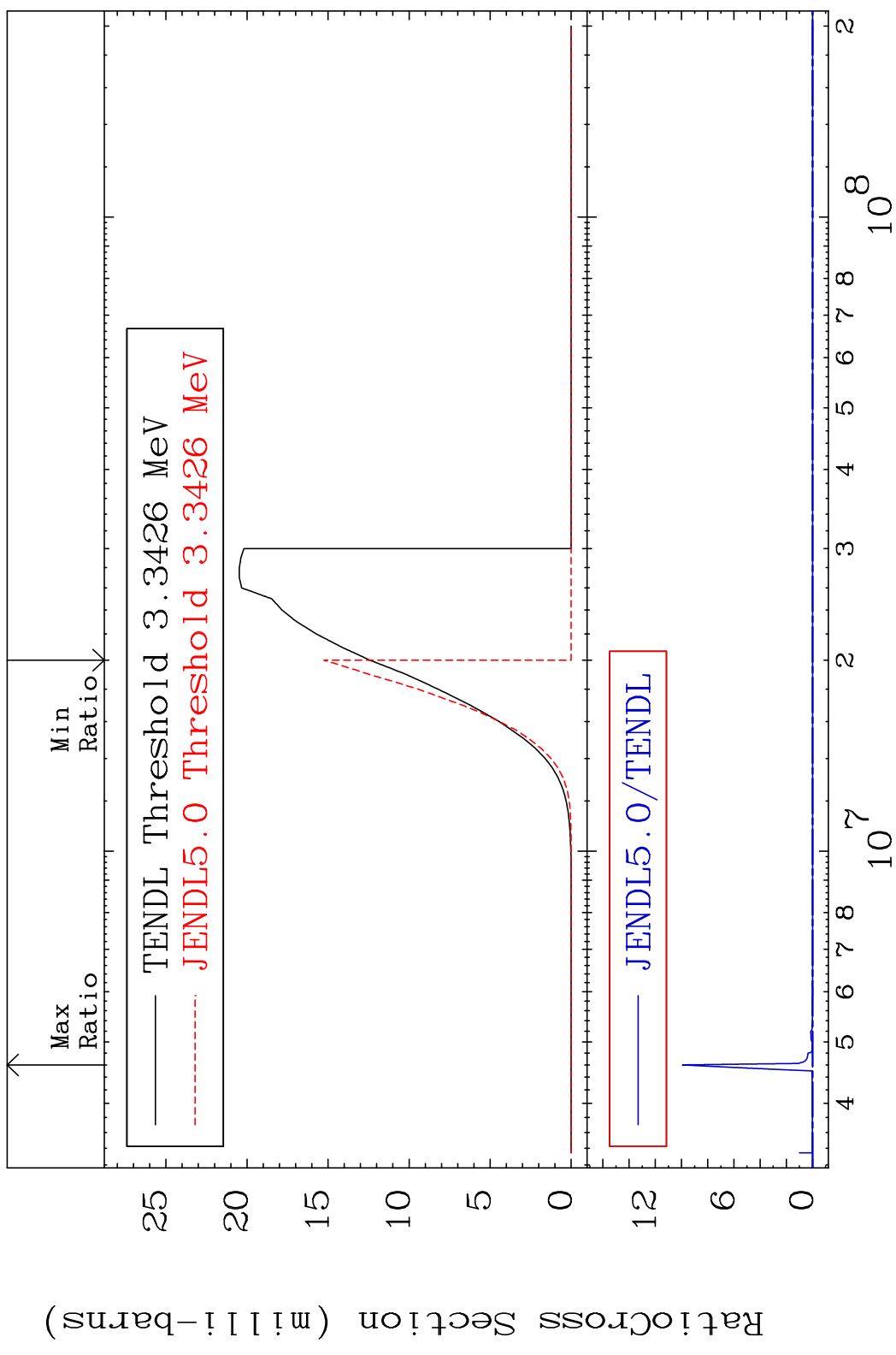


MAT 5722

(n,d)

57-La-137

Cross Section -100.0 To 9999. %

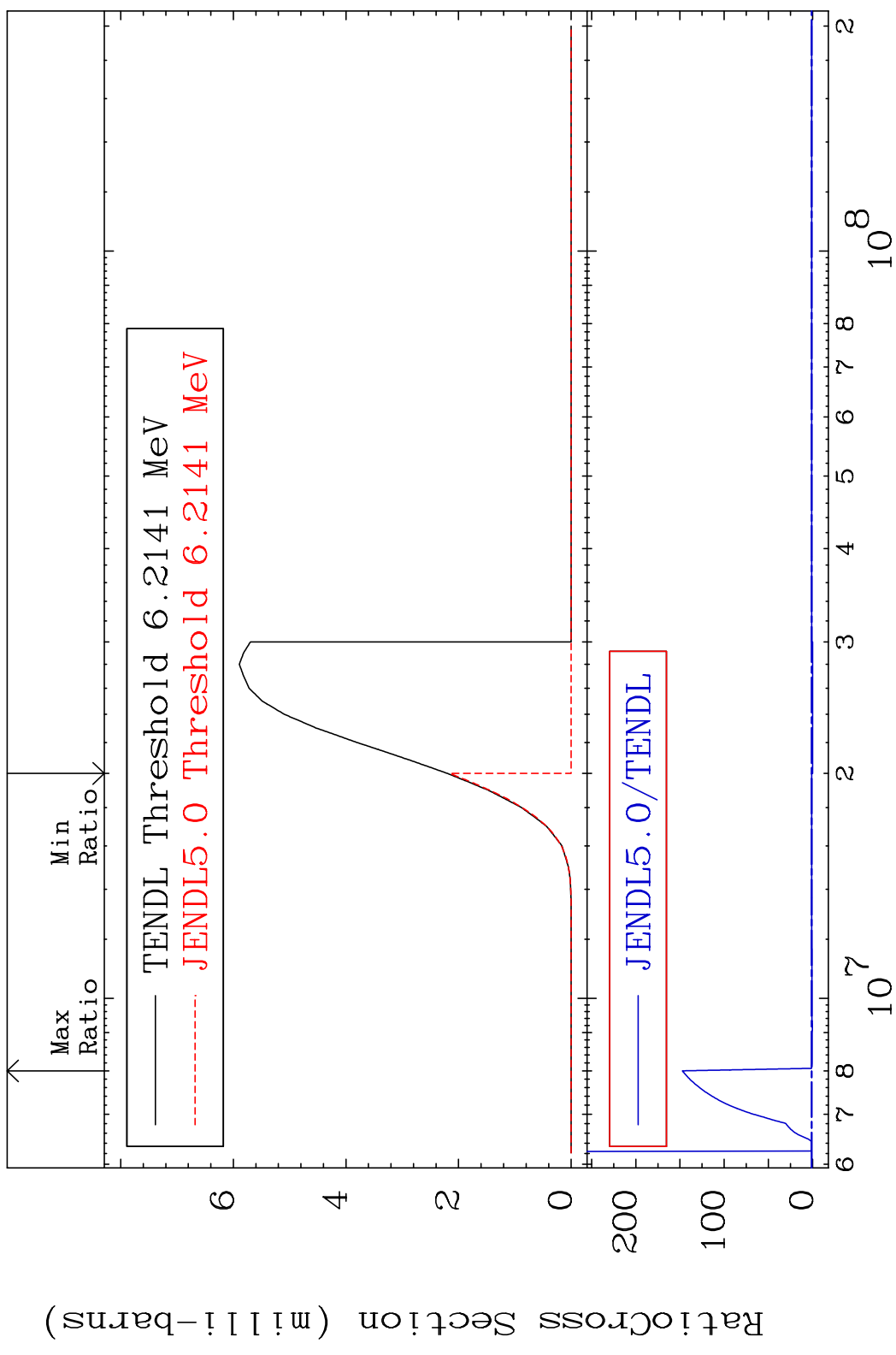


MAT 5722

(n, t)

57-La-137

Cross Section -100.0 To 9999. %



29

Incident Energy (eV)

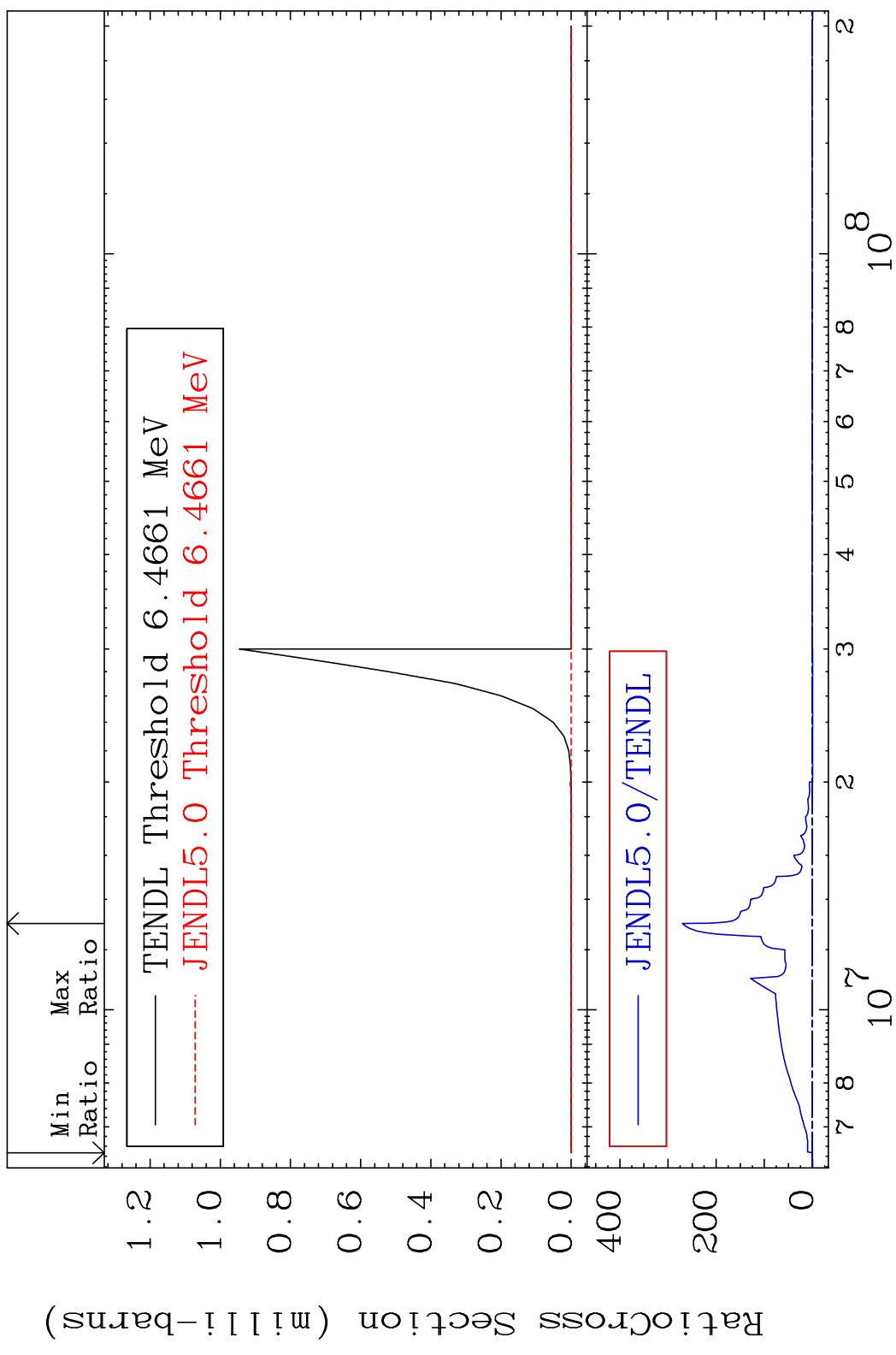
57-La-137

MAT 5722

(n, He-3)

57-La-137

Cross Section -100.0 To 9999. %

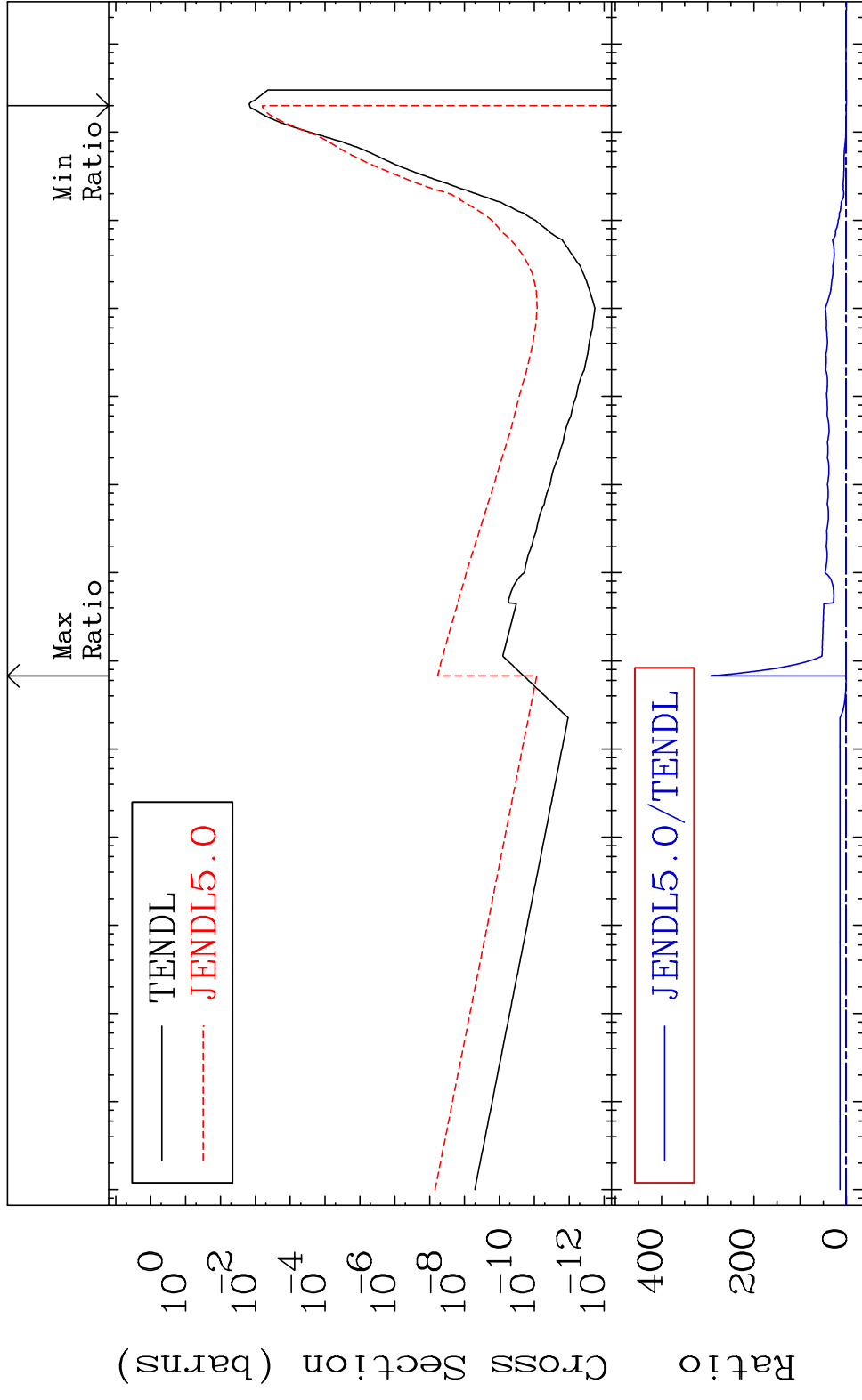


MAT 5722

(n,  $\alpha$ )

57-La-137

Cross Section -100.0 To 9999. %



31

Incident Energy (eV)

57-La-137

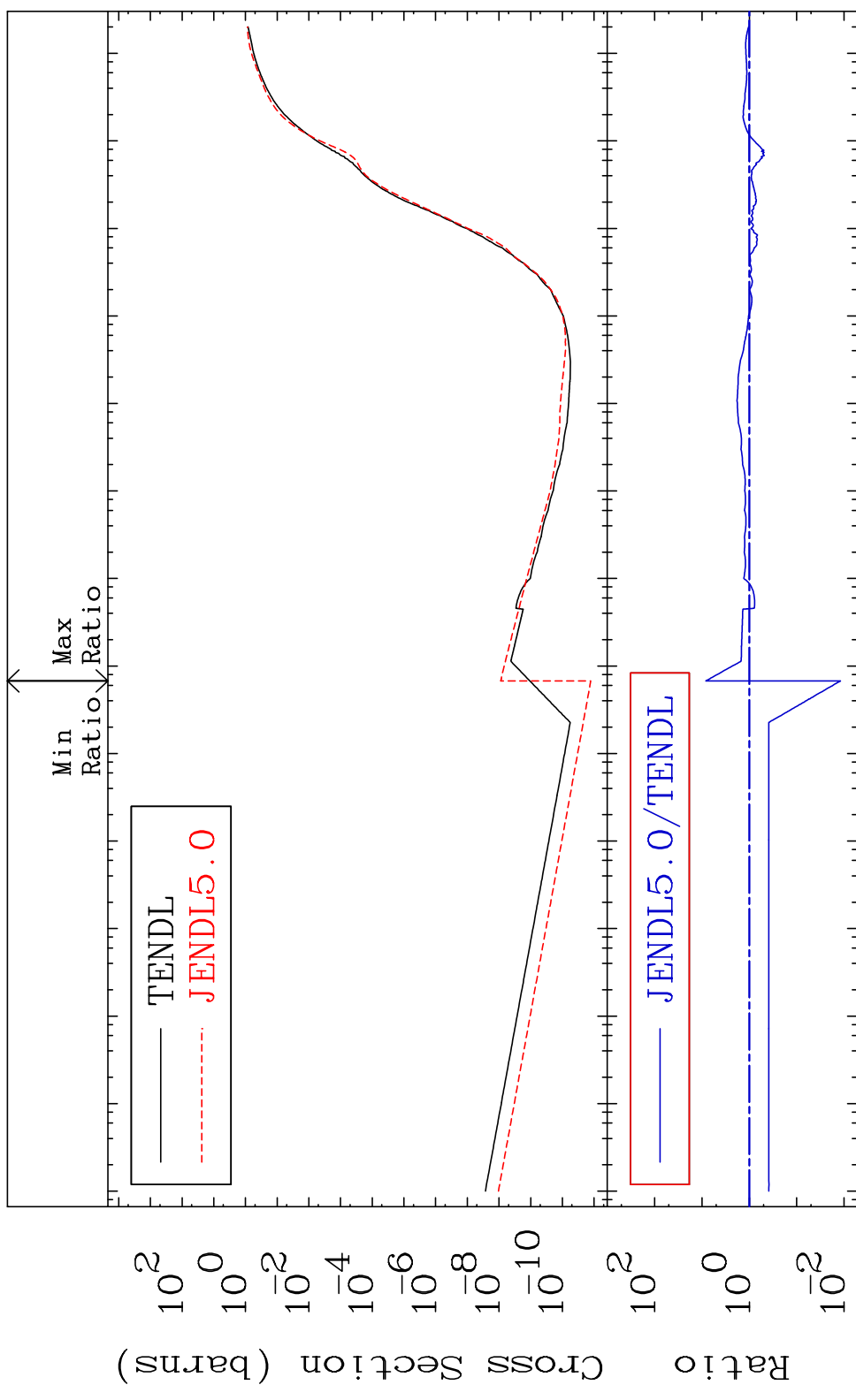


MAT 5722

Hydrogen Production

57-La-137

Cross Section -98.81 To 730.0 %

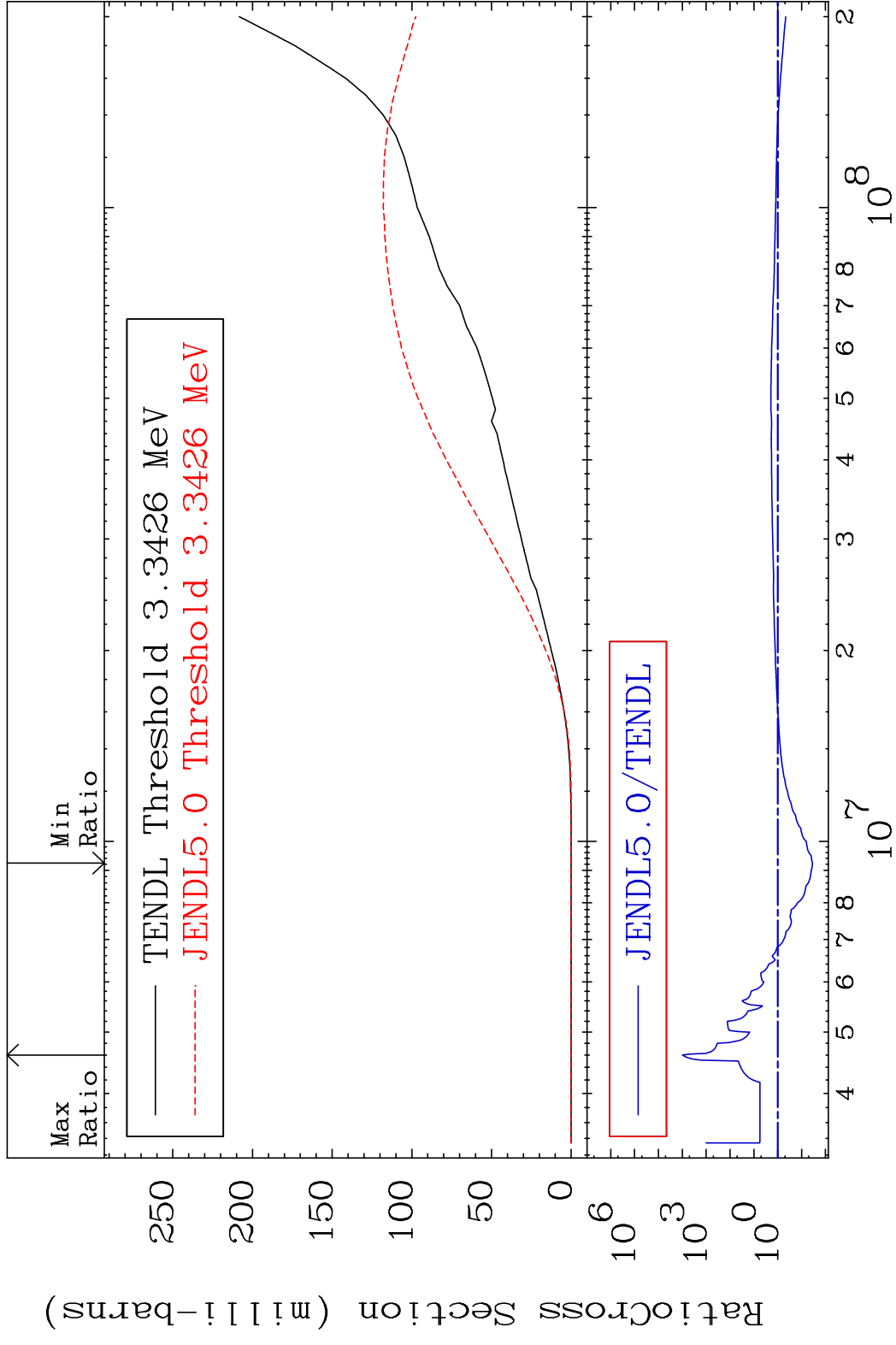


MAT 5722

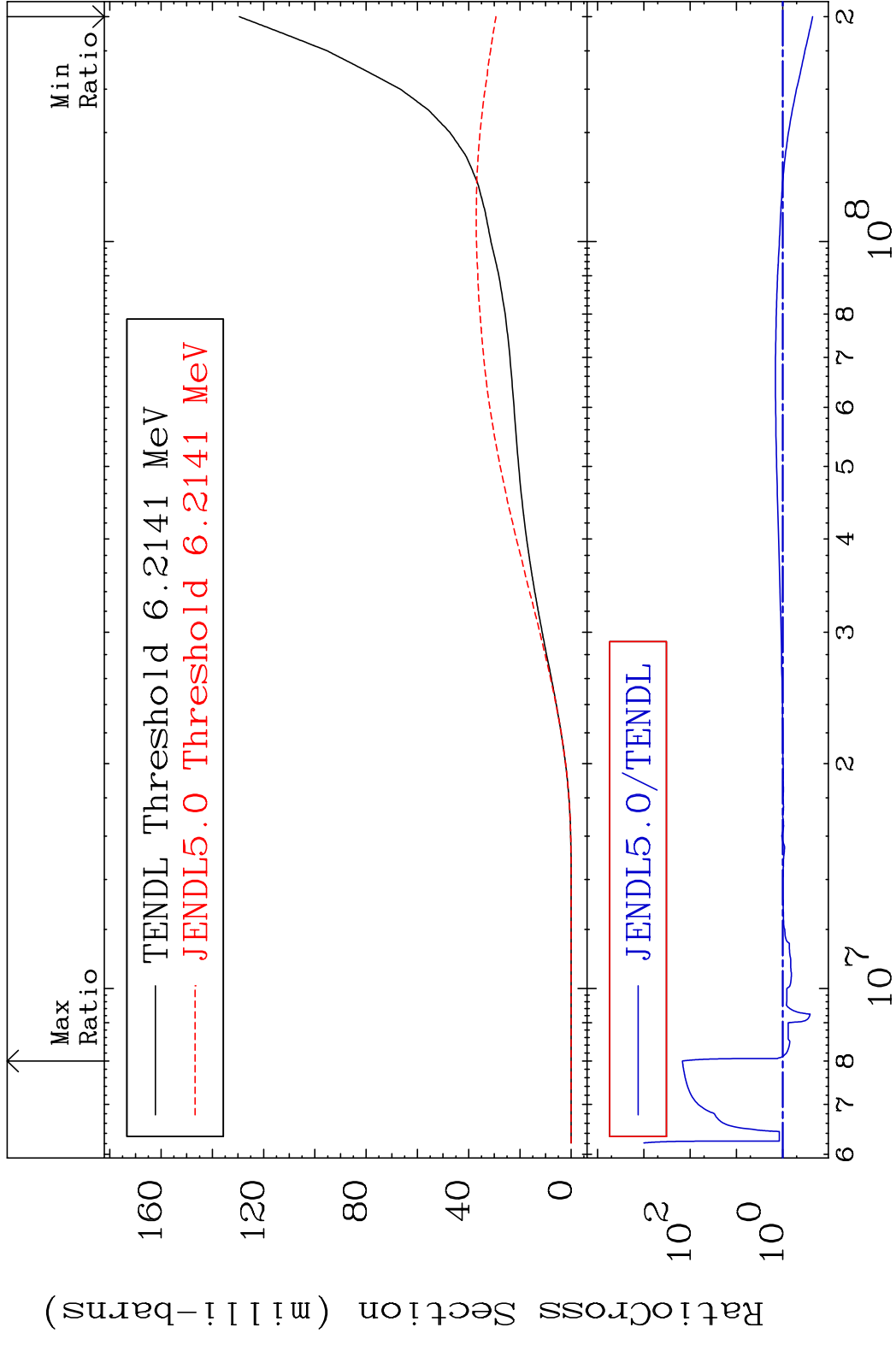
Deuterium Production

57-La-137

Cross Section -96.52 To 9999. %



MAT 5722 Tritium Production 57-La-137  
 Cross Section -77.33 To 9999. %

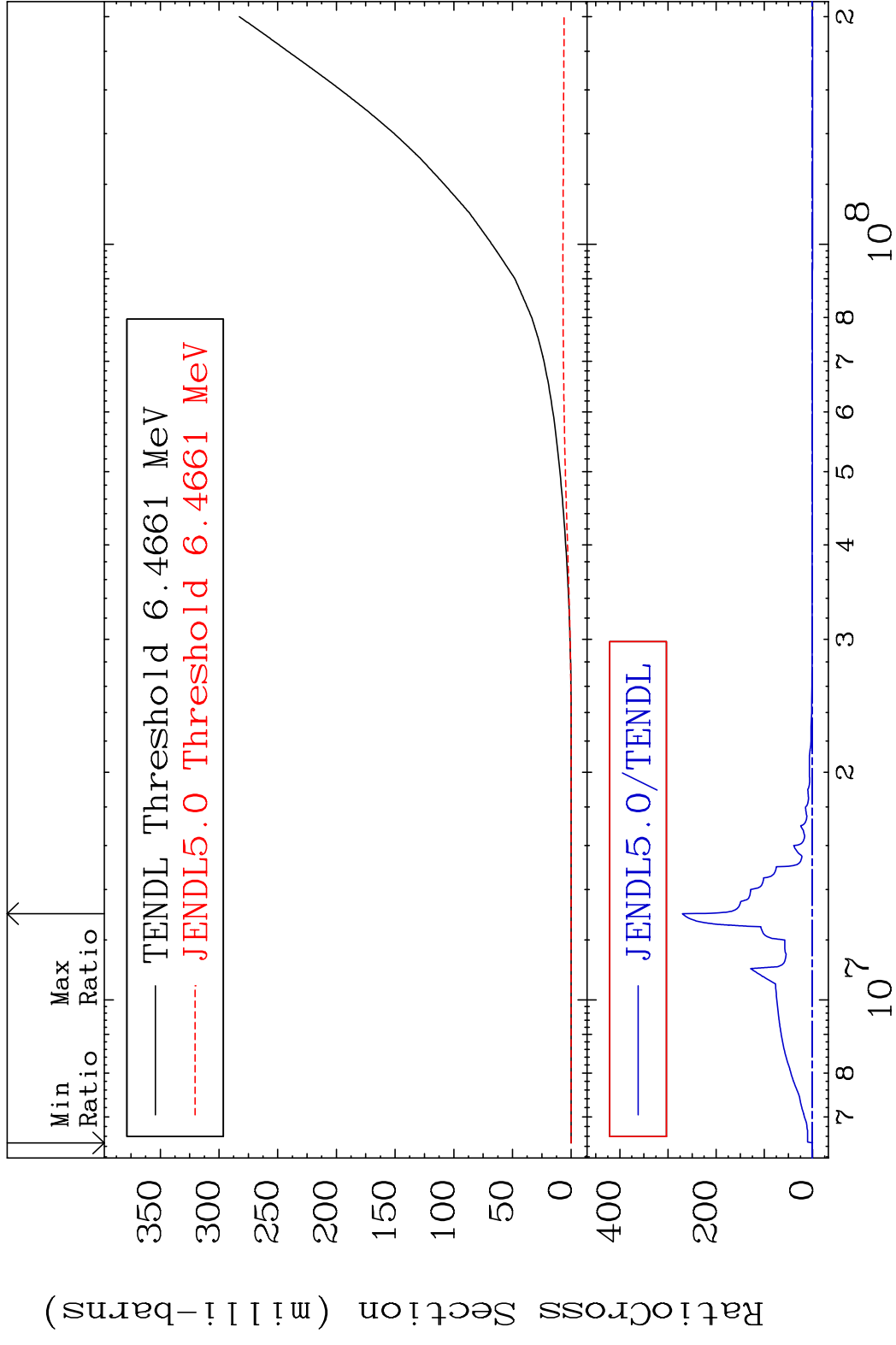


MAT 5722

He-3 Production

57-La-137

Cross Section -100.0 To 9999. %

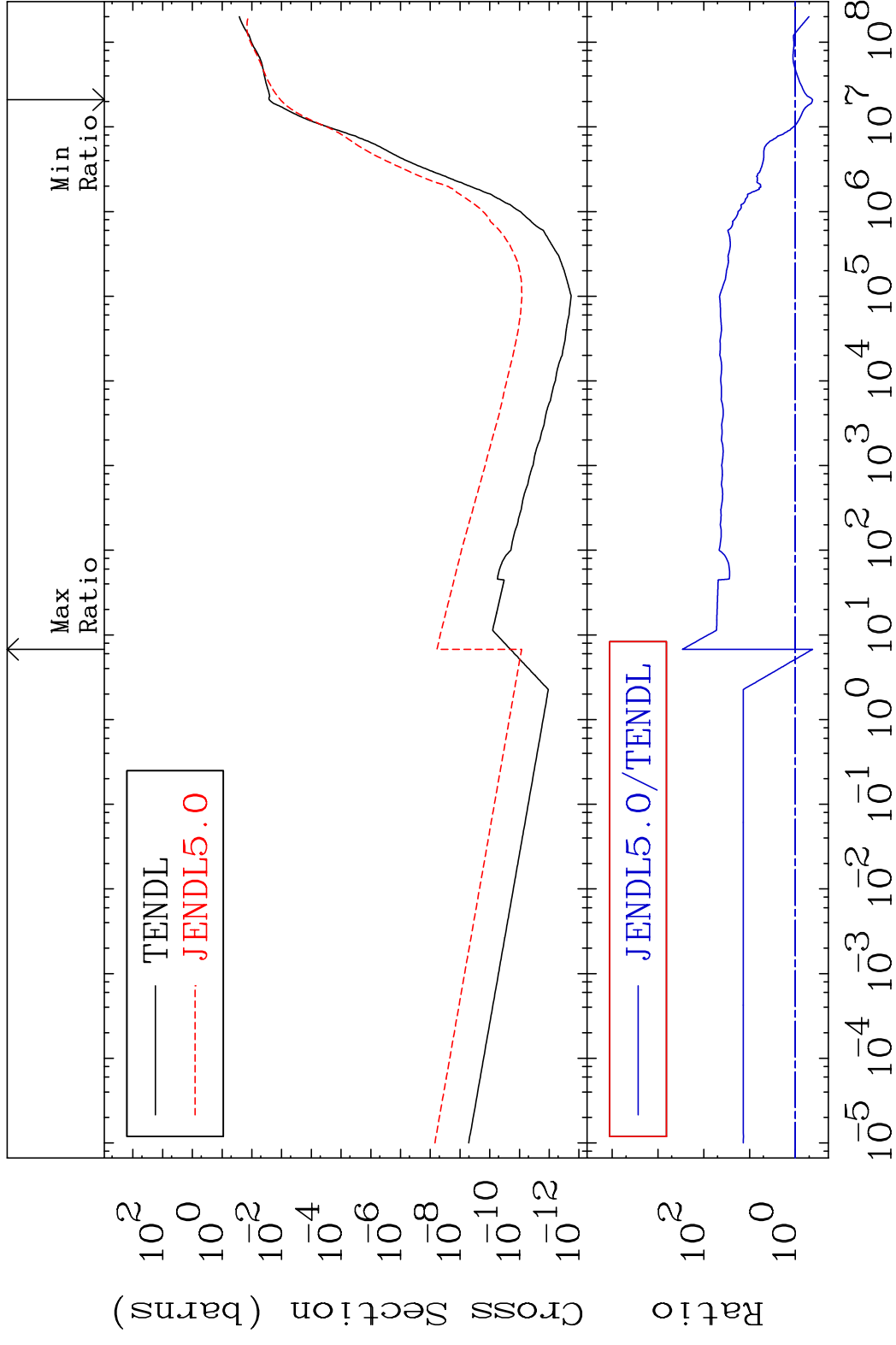


MAT 5722

He-4 Production

57-La-137

Cross Section -57.85 To 9999. %

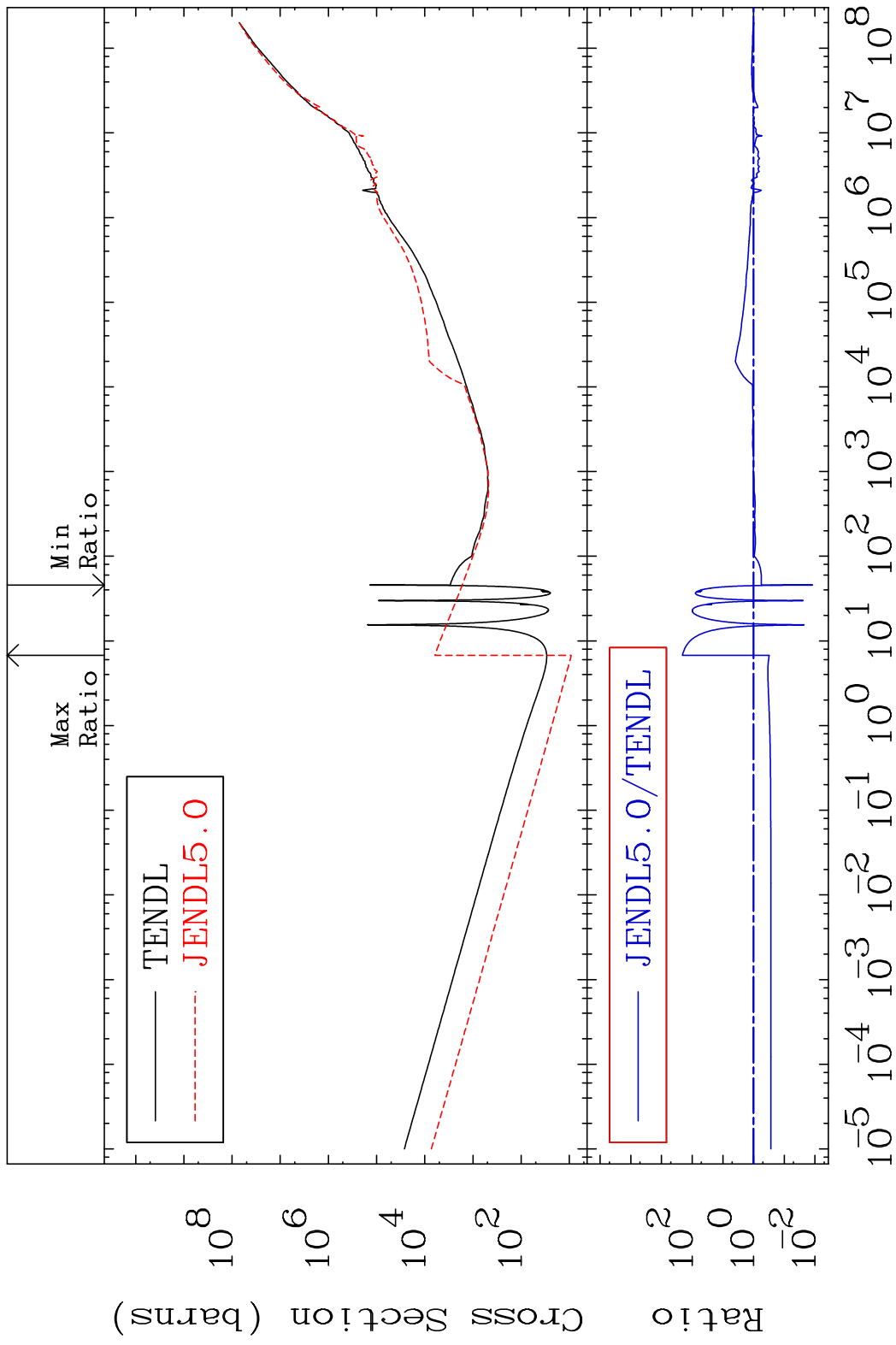


36

Incident Energy (eV)

57-La-137

MAT 5722 Kerma total (eV-barns) 57-La-137  
 Cross Section -98.80 To 9999. %



37 Incident Energy (eV) 57-La-137

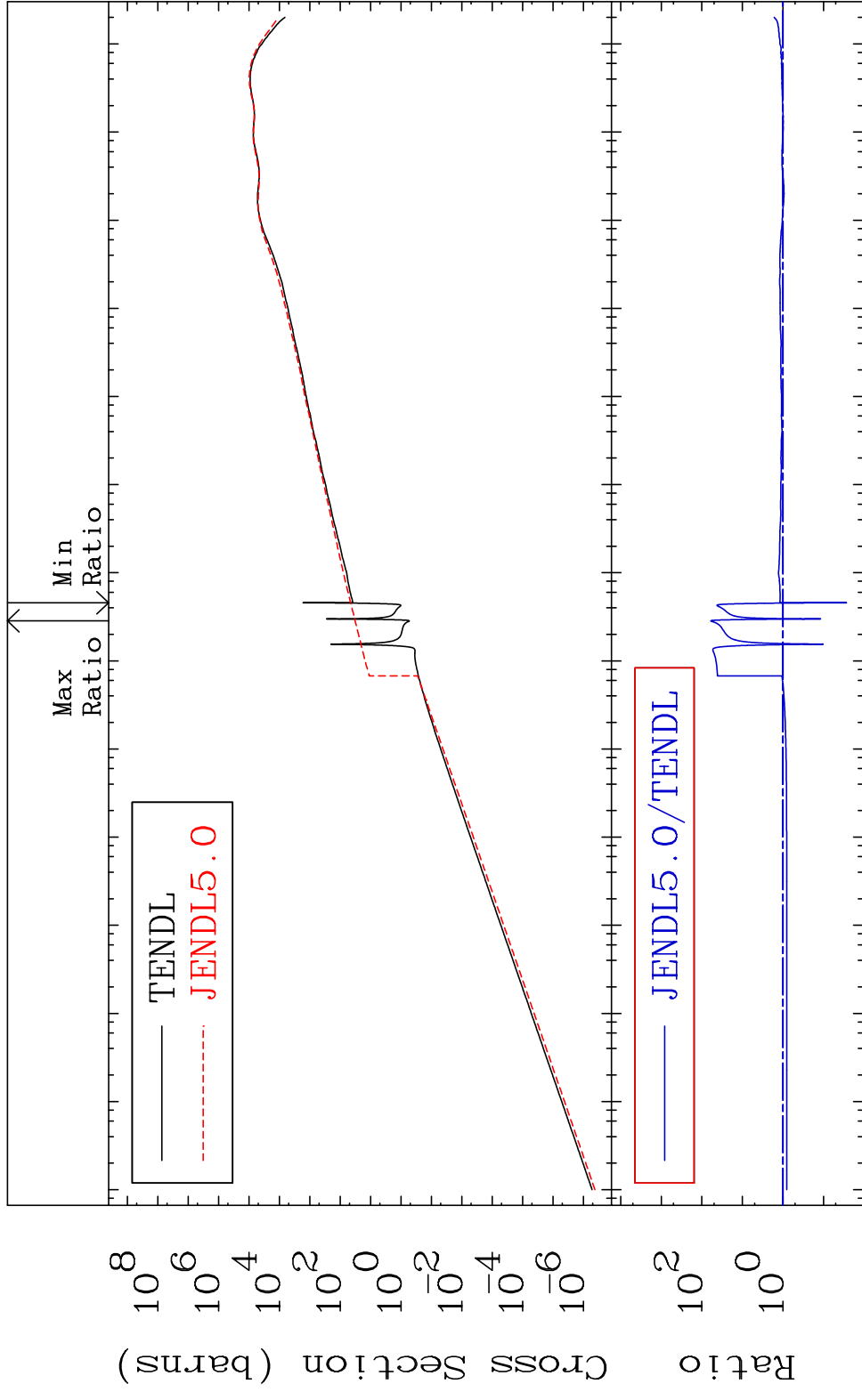
MAT 5722

Kerma elastic

57-La-137

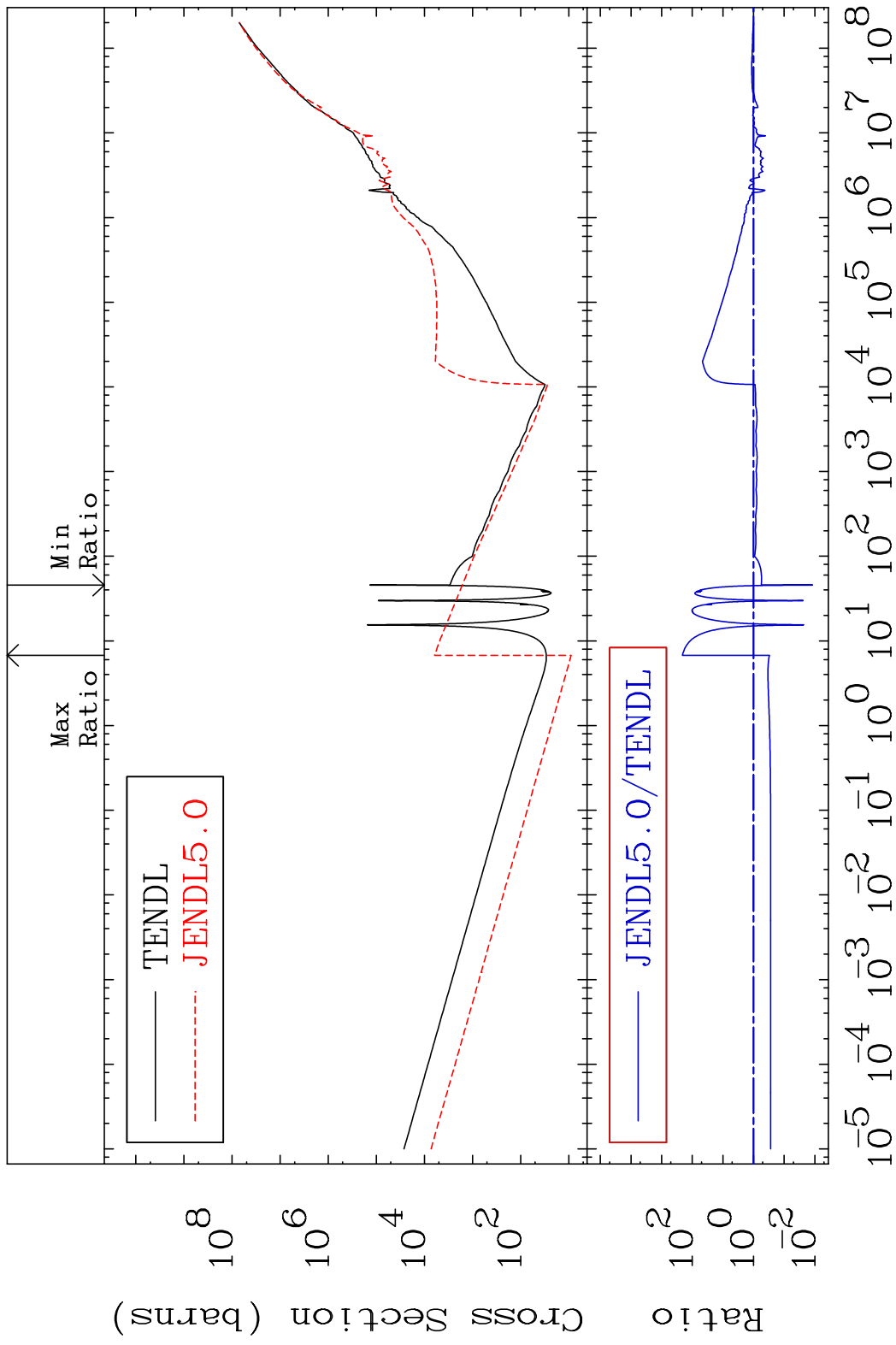
Cross Section

-97.26 To 5939. %



Incident Energy (eV)

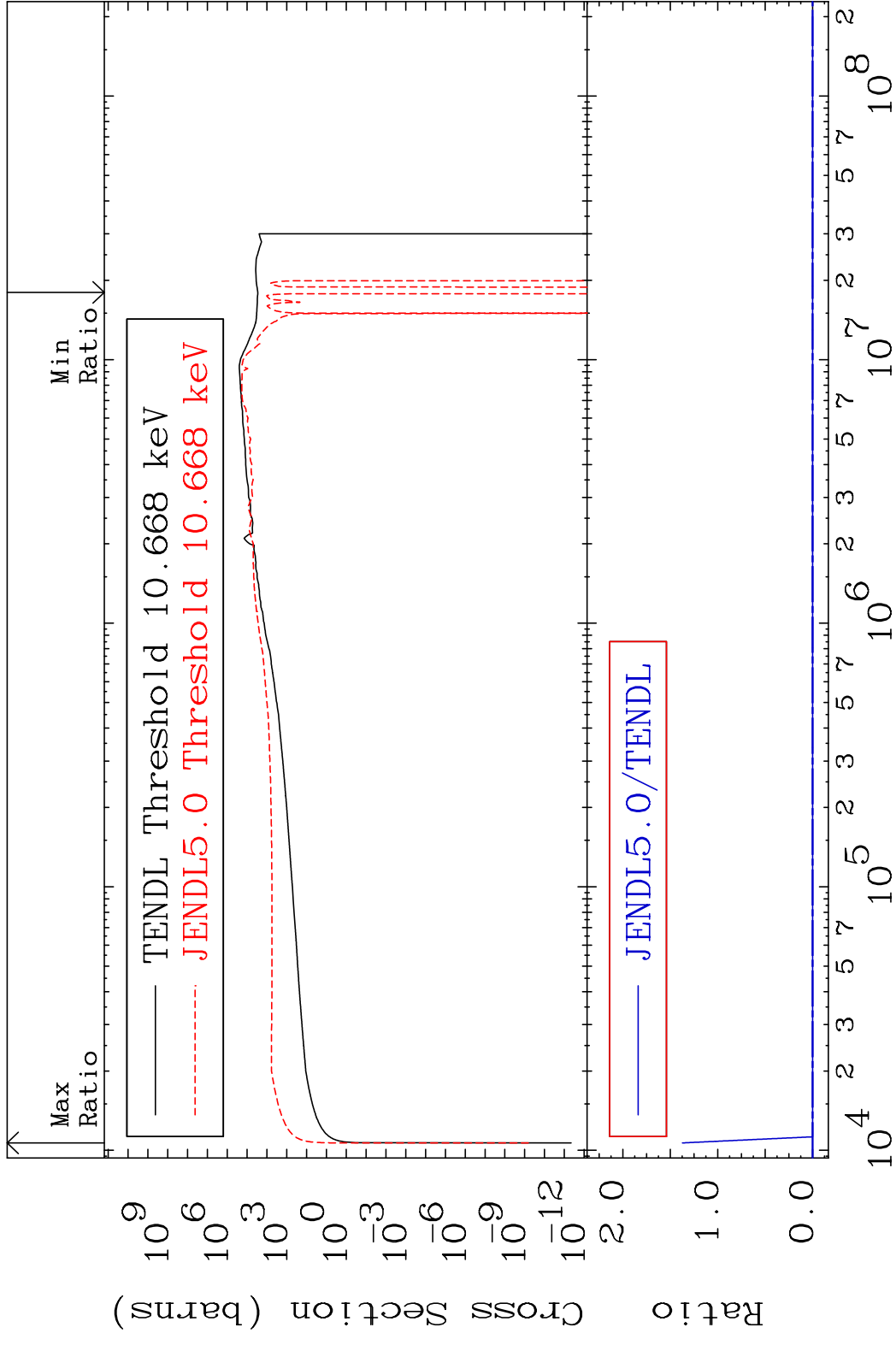
MAT 5722 Kerma non-elastic (all but mt2) 57-La-137  
 Cross Section -98.82 To 9999. %



39 Incident Energy (eV) 57-La-137

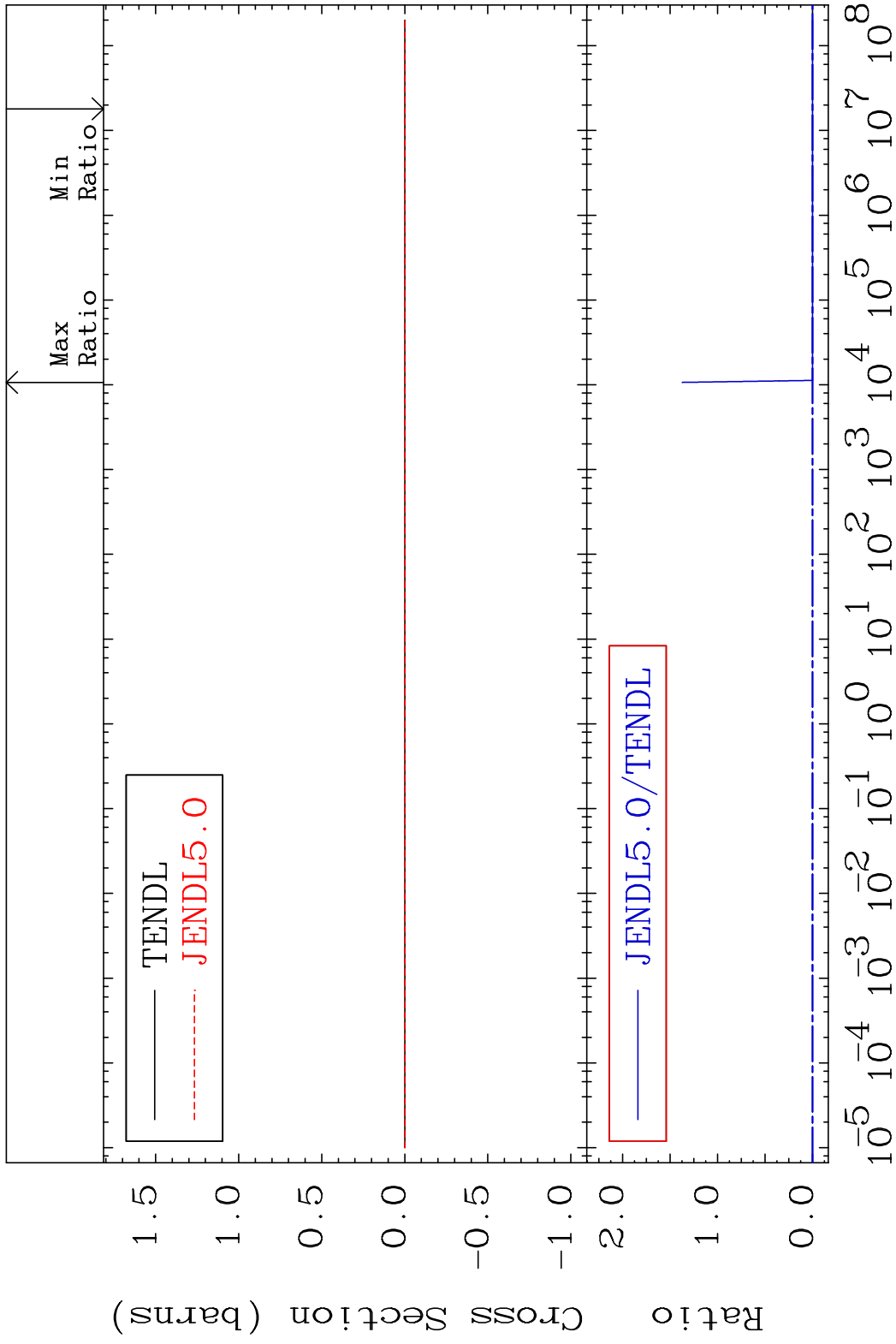


MAT 5722 Kerma inelastic (mt51-91) 57-La-137  
 Cross Section -127.0 To 9999. %



40 Incident Energy (eV) 57-La-137

MAT 5722 Kerma fission (mt18 or mt19-20-21-38) 57-La-137  
 Cross Section -127.0 To 9999. %

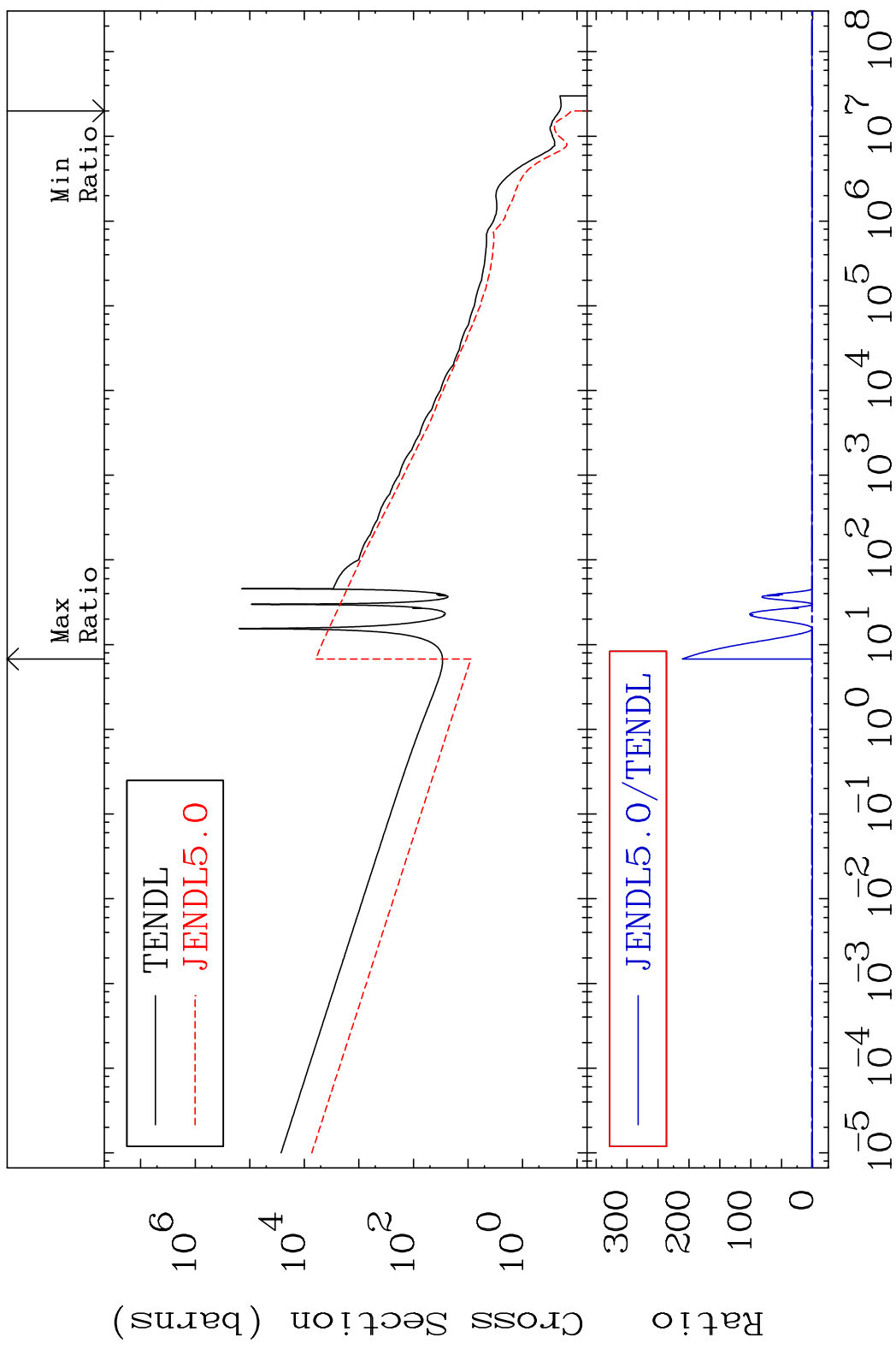


MAT 5722

Kerma capture (mt102)

57-La-137

Cross Section -100.0 To 9999. %

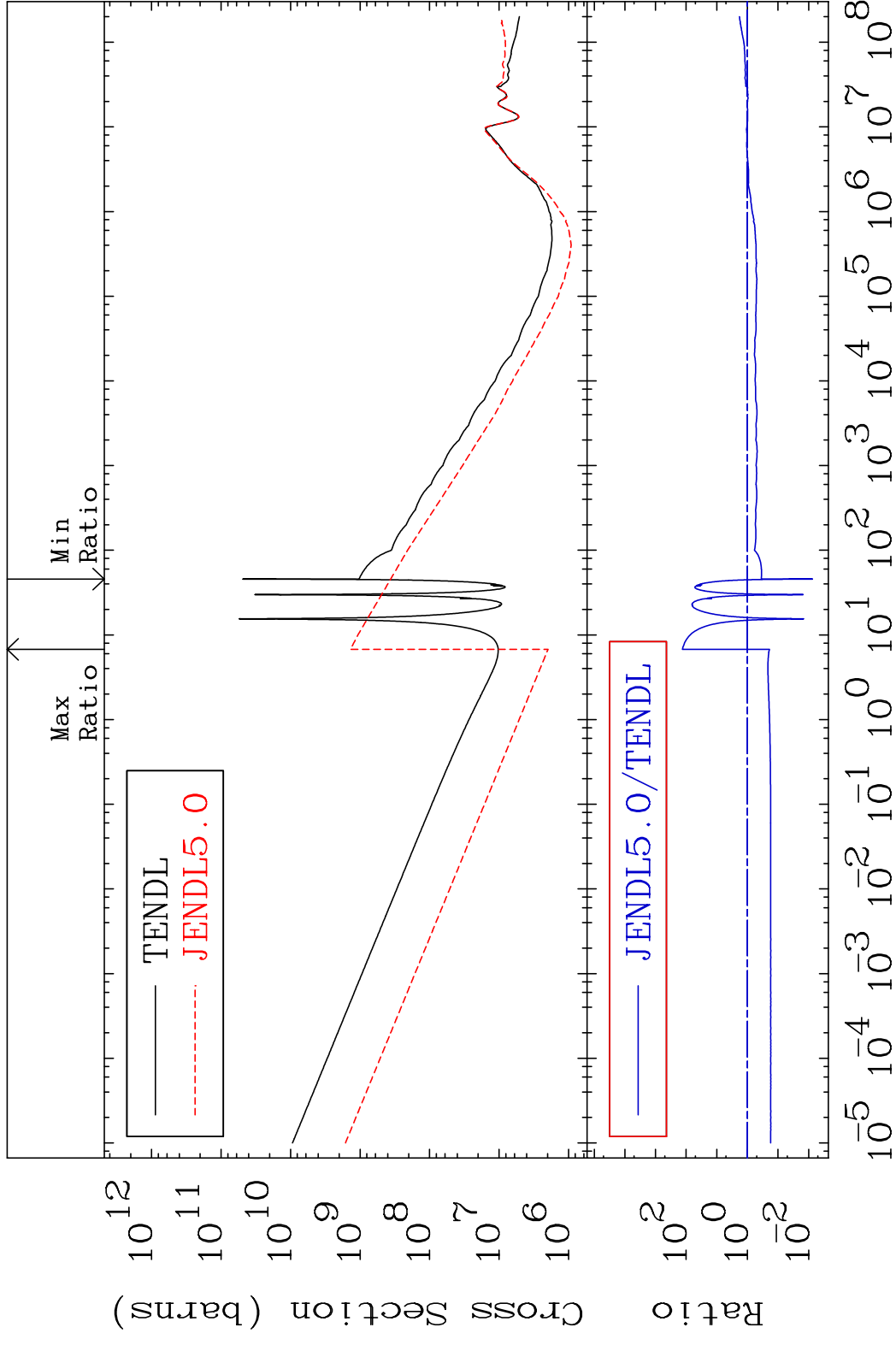


42

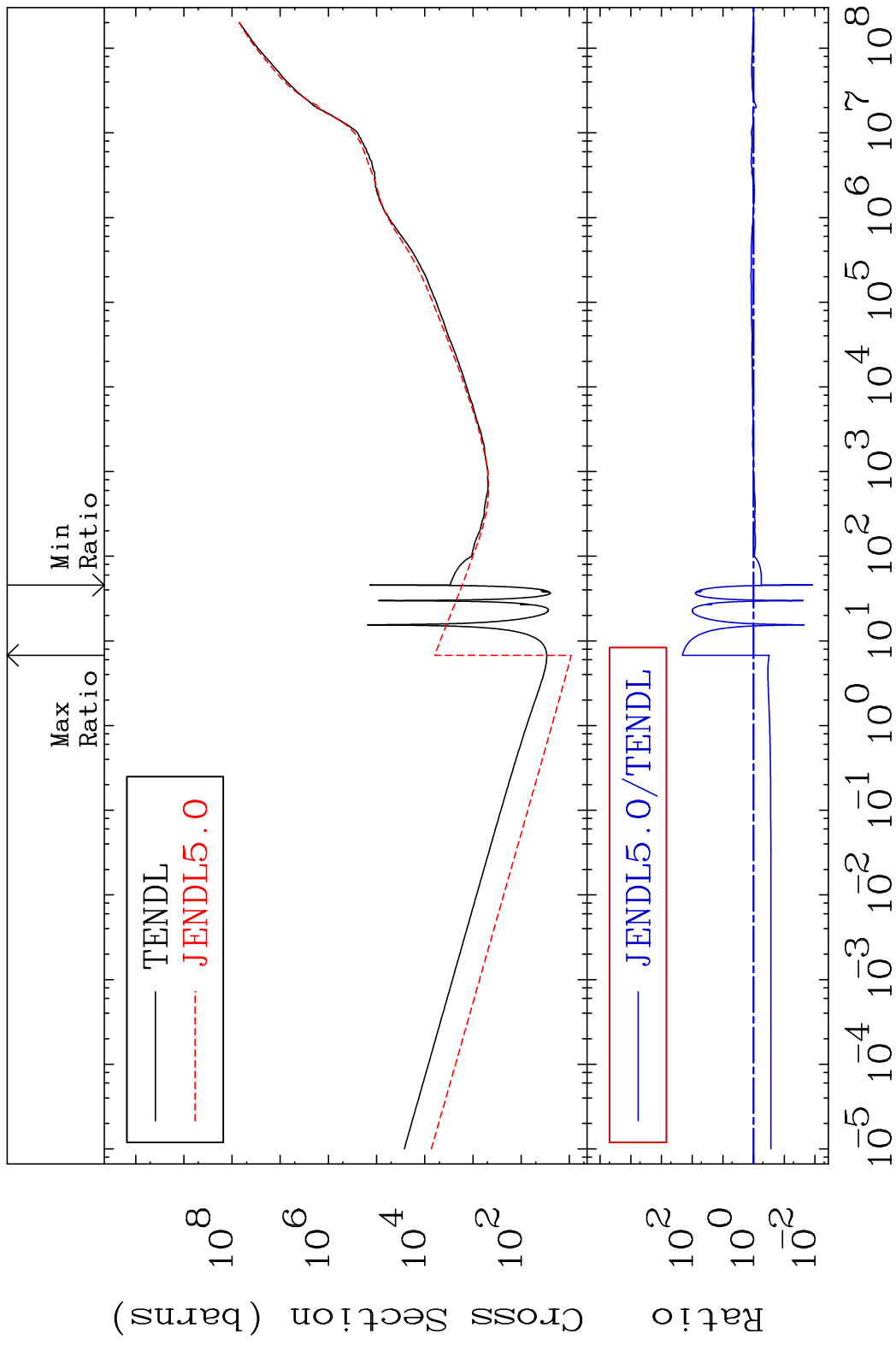
Incident Energy (eV)

57-La-137

MAT 5722 Total photon (eV-barns) 57-La-137  
 Cross Section -99.25 To 9999. %



MAT 5722 Total kinematic kerma (high limit) 57-La-137  
 Cross Section -98.80 To 9999. %

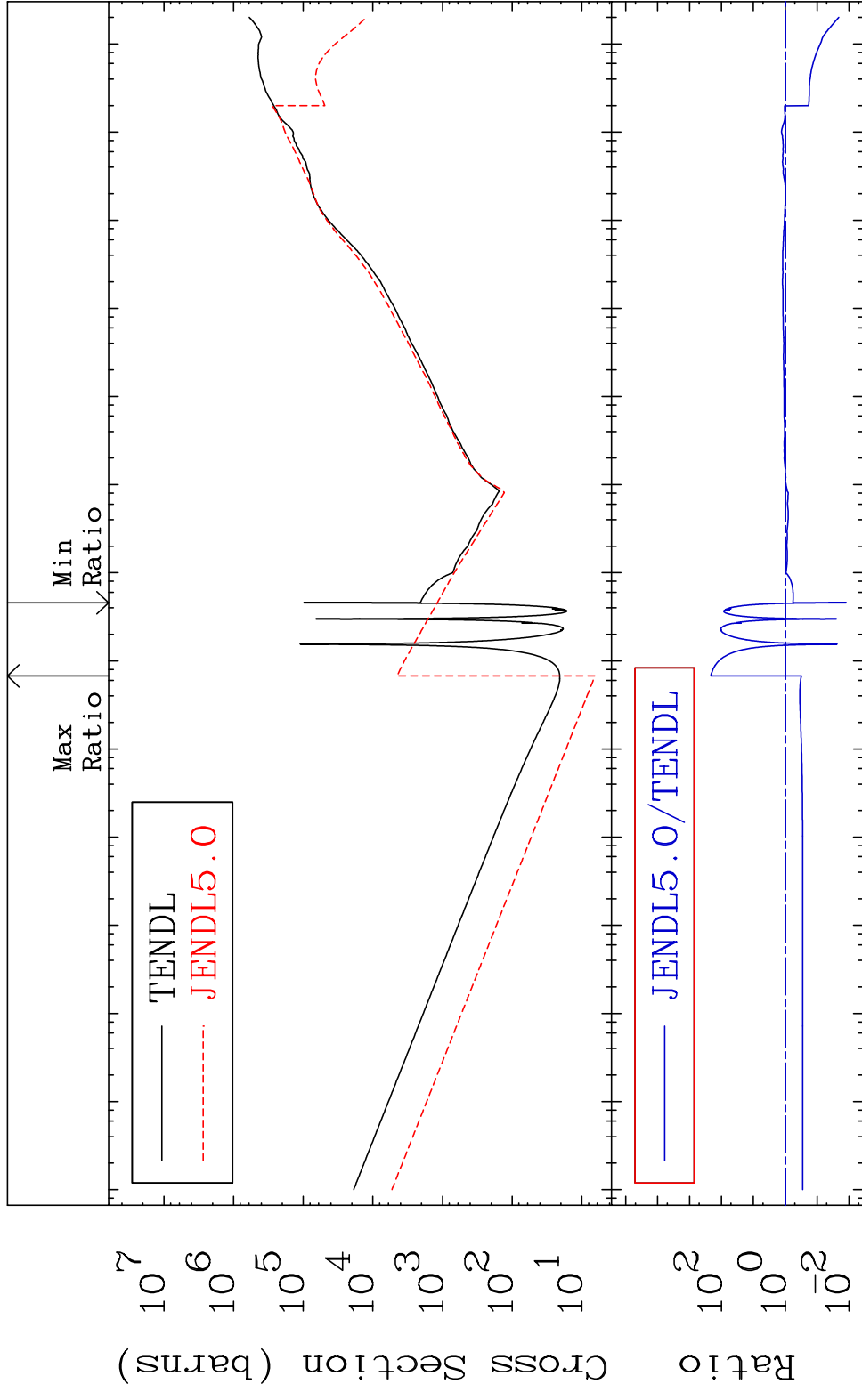


MAT 5722

Dpa total (eV-barns)

57-La-137

Cross Section -98.78 To 9999. %



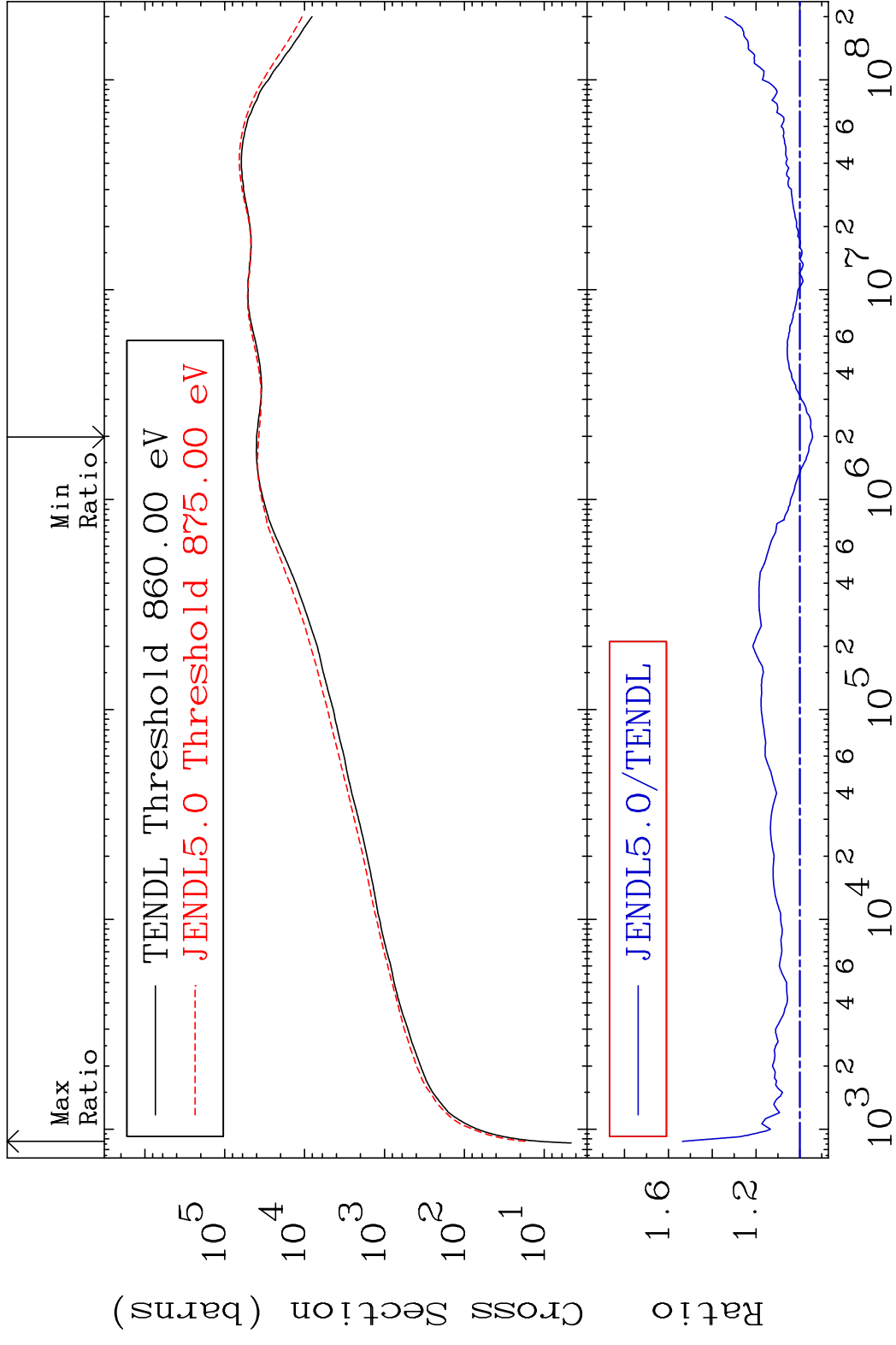
MAT 5722

Dpa elastic (mt2)

57-La-137

Cross Section

-5.779 To 53.63 %

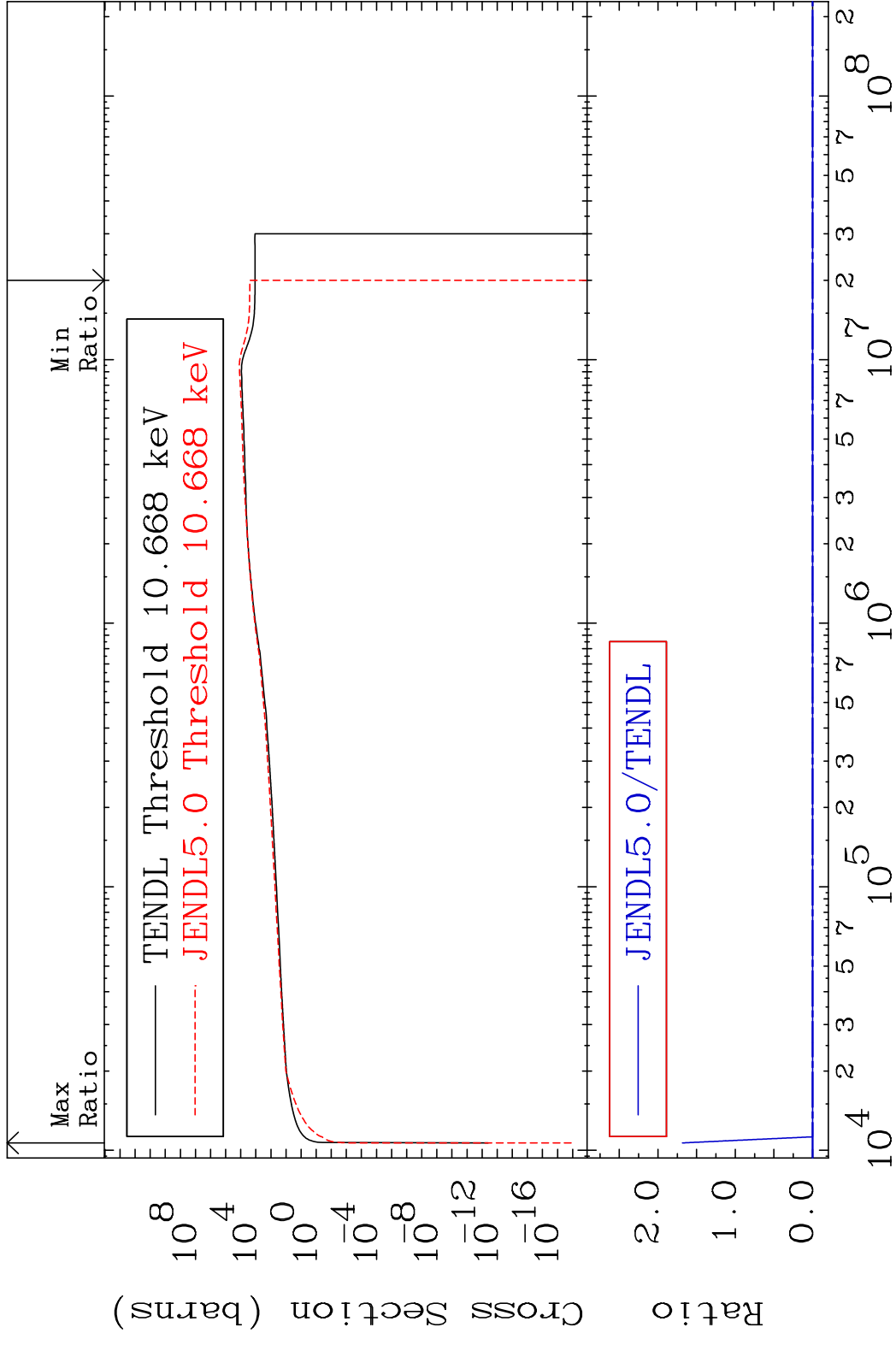


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Incident Energy (eV)

57-La-137

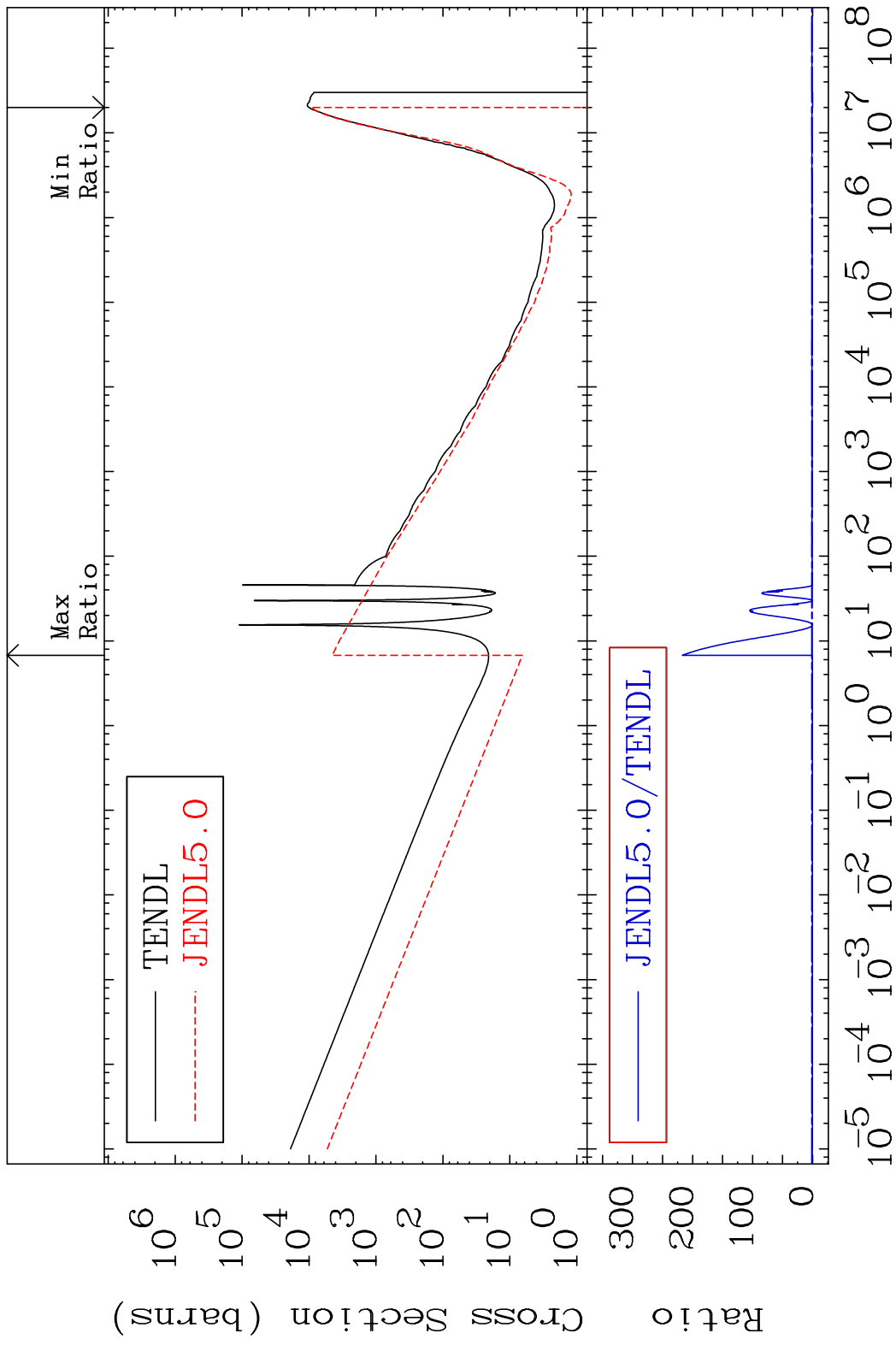
MAT 5722 Dpa inelastic (mt51-91) 57-La-137  
 Cross Section -100.0 To 9999. %



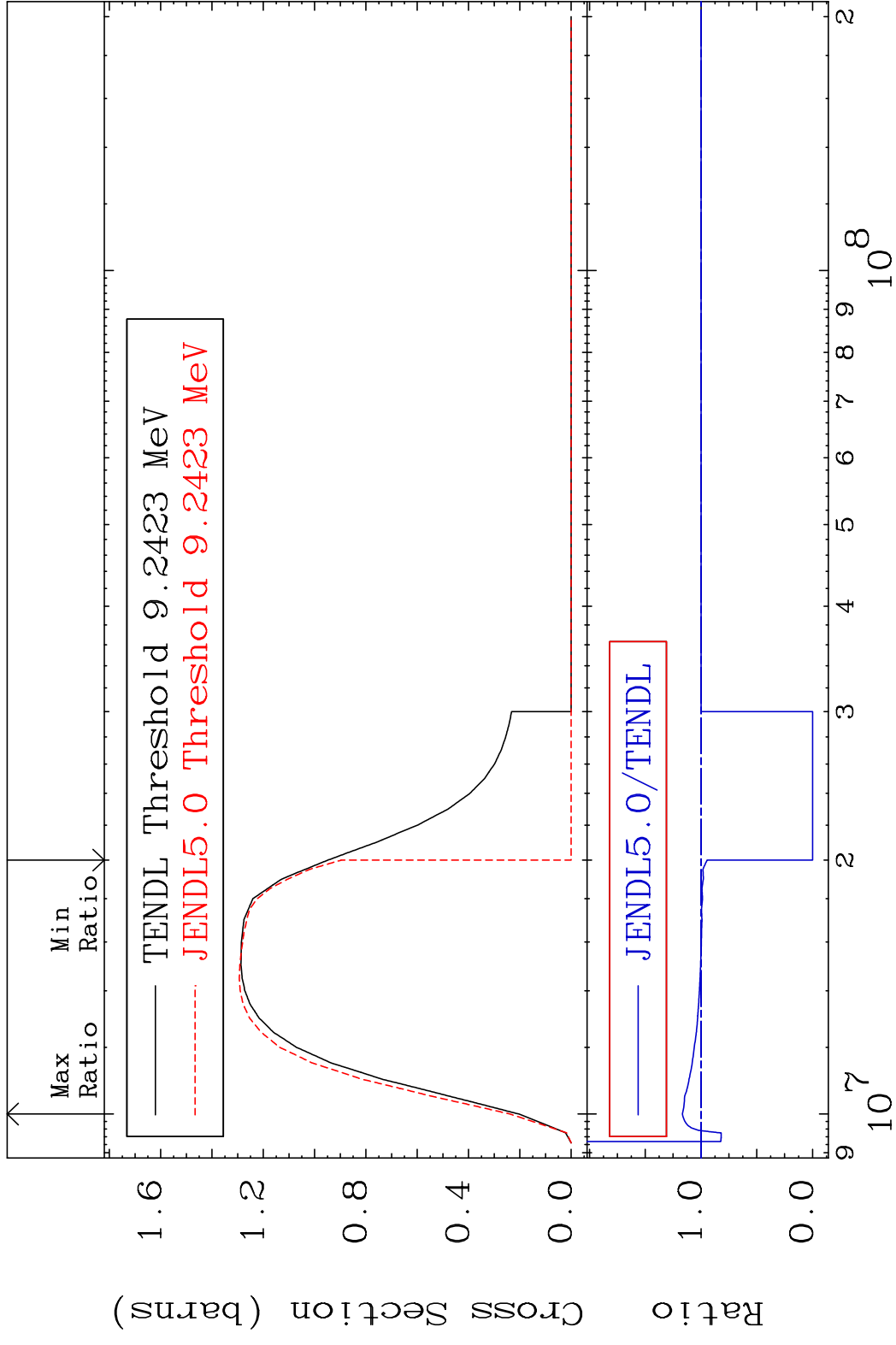
47 Incident Energy (eV) 57-La-137



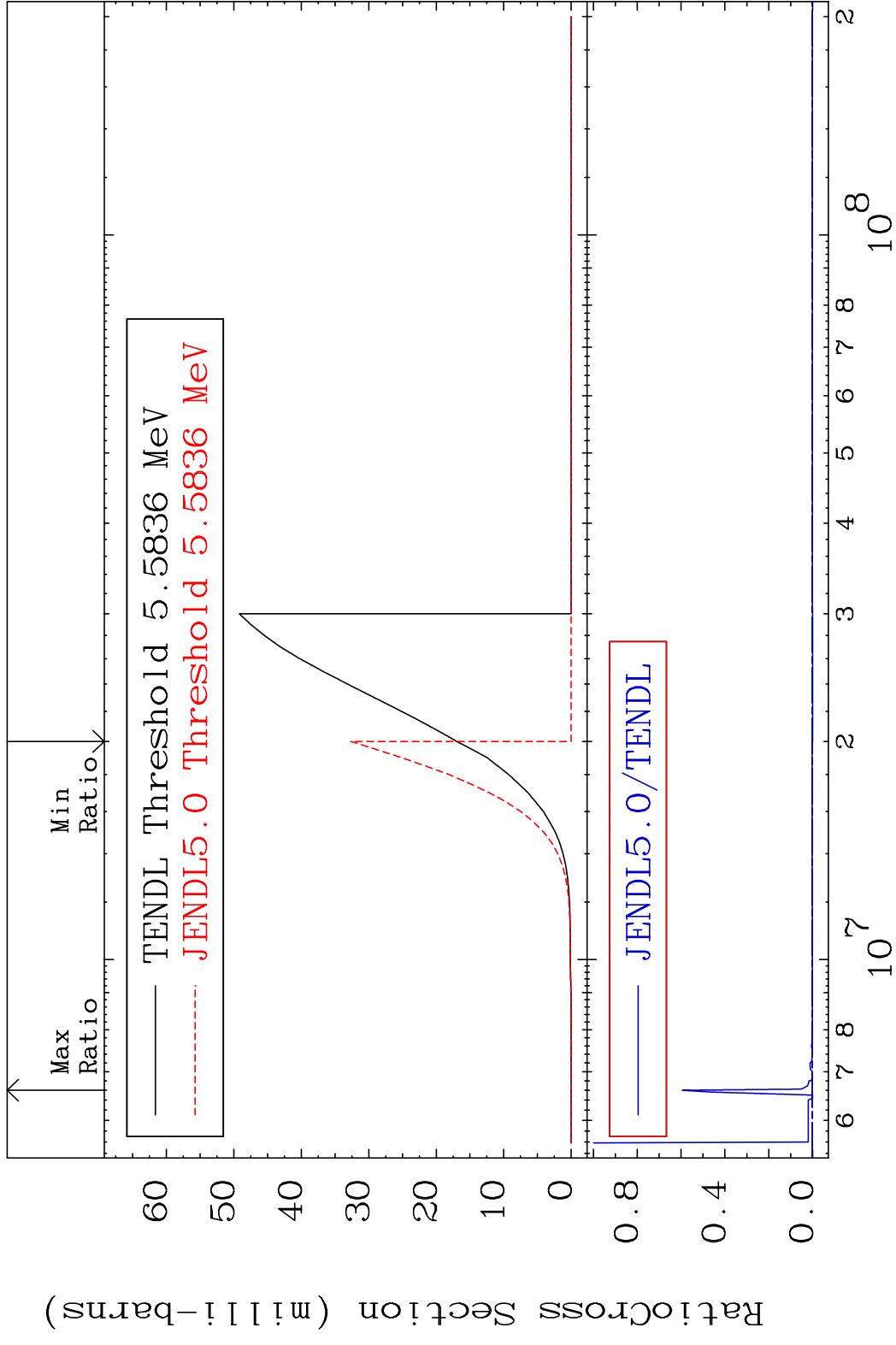
MAT 5722    Dpa disappearance (mt102 -120)    57-La-137  
 Cross Section    -100.0 To 9999. %

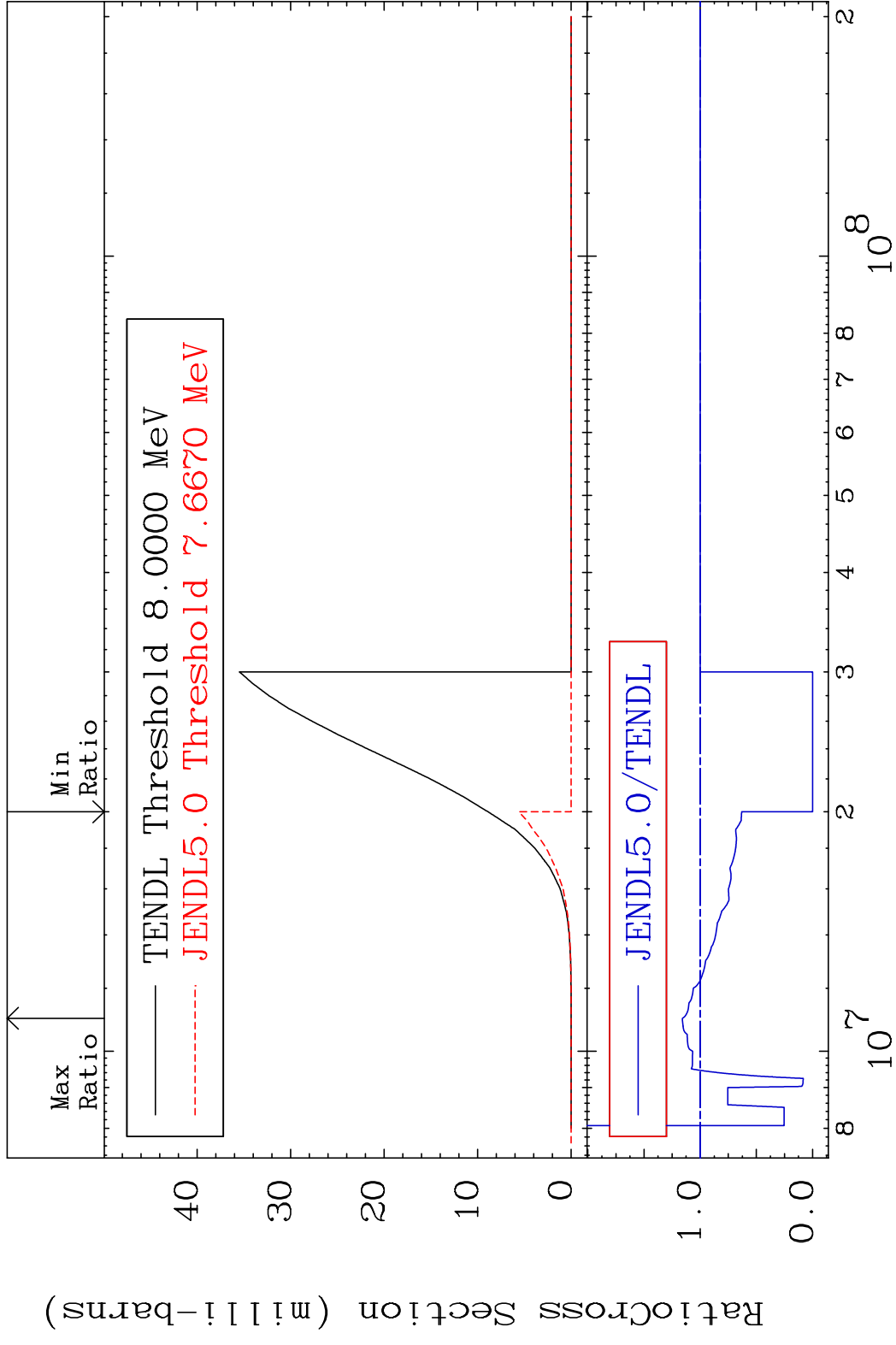


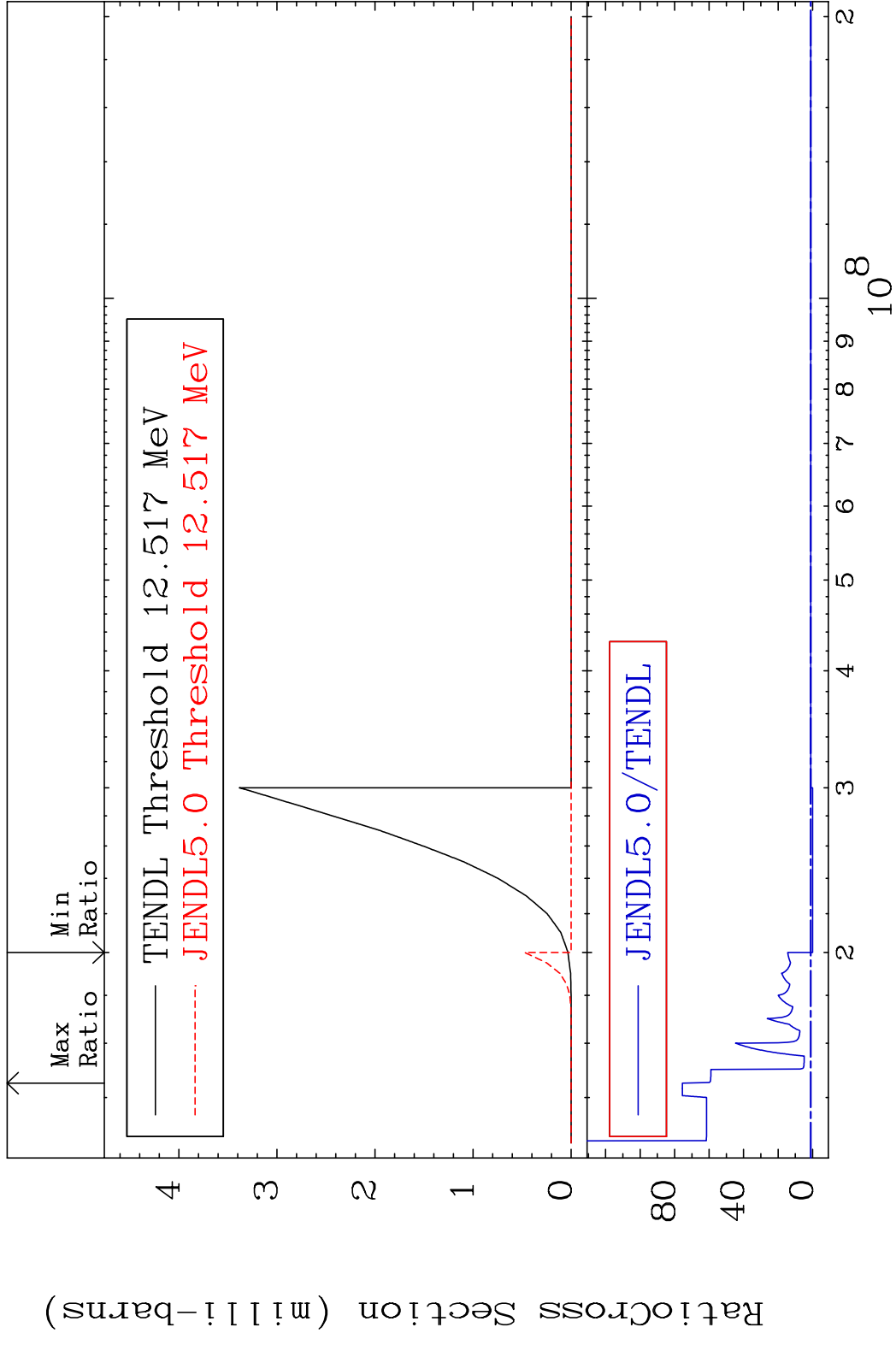
MAT 5722 (n,2n):57-La-136g 57-La-137  
 Radionuclide Production Cross Section 180.01 dth 16.72 %

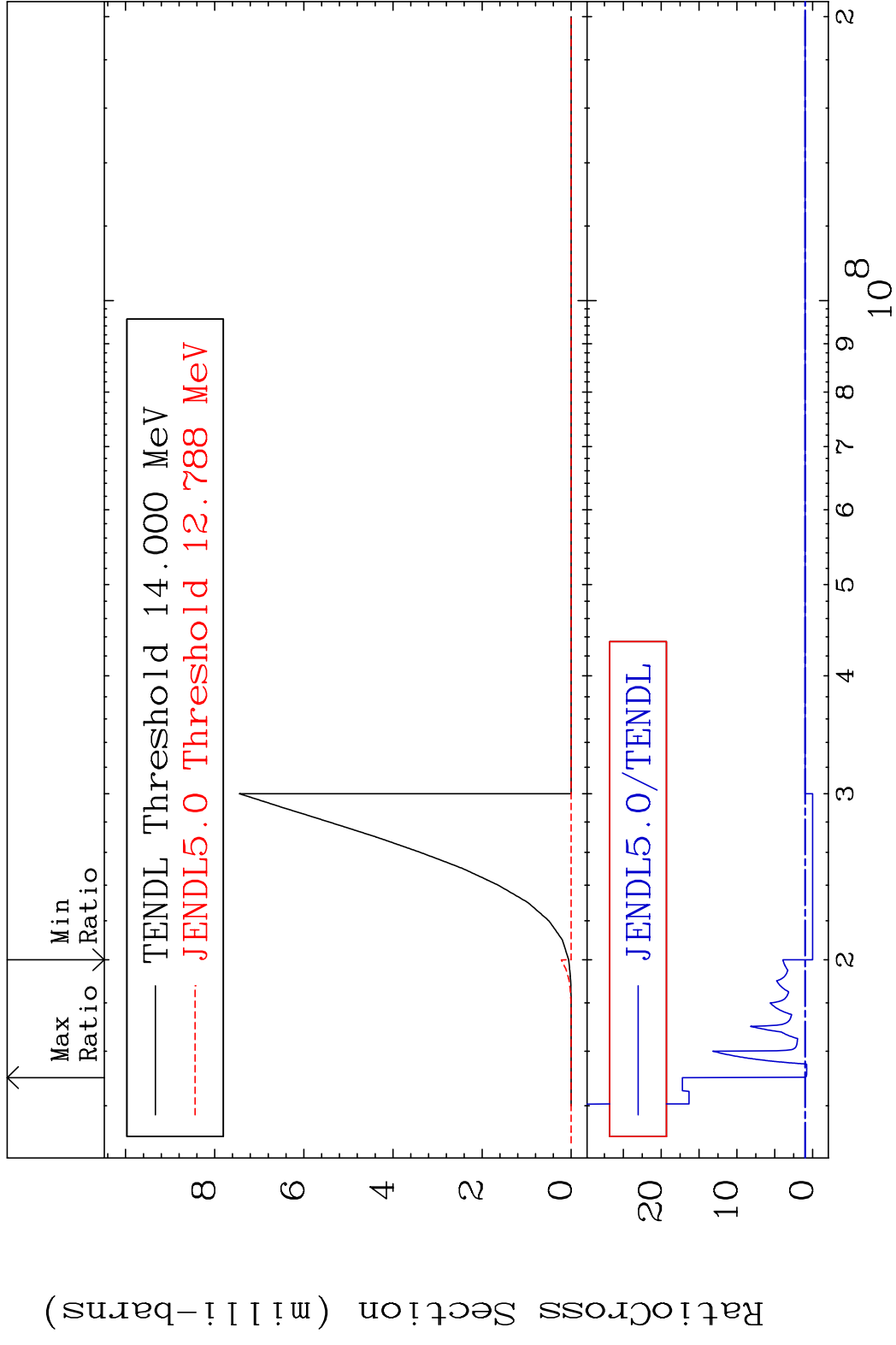


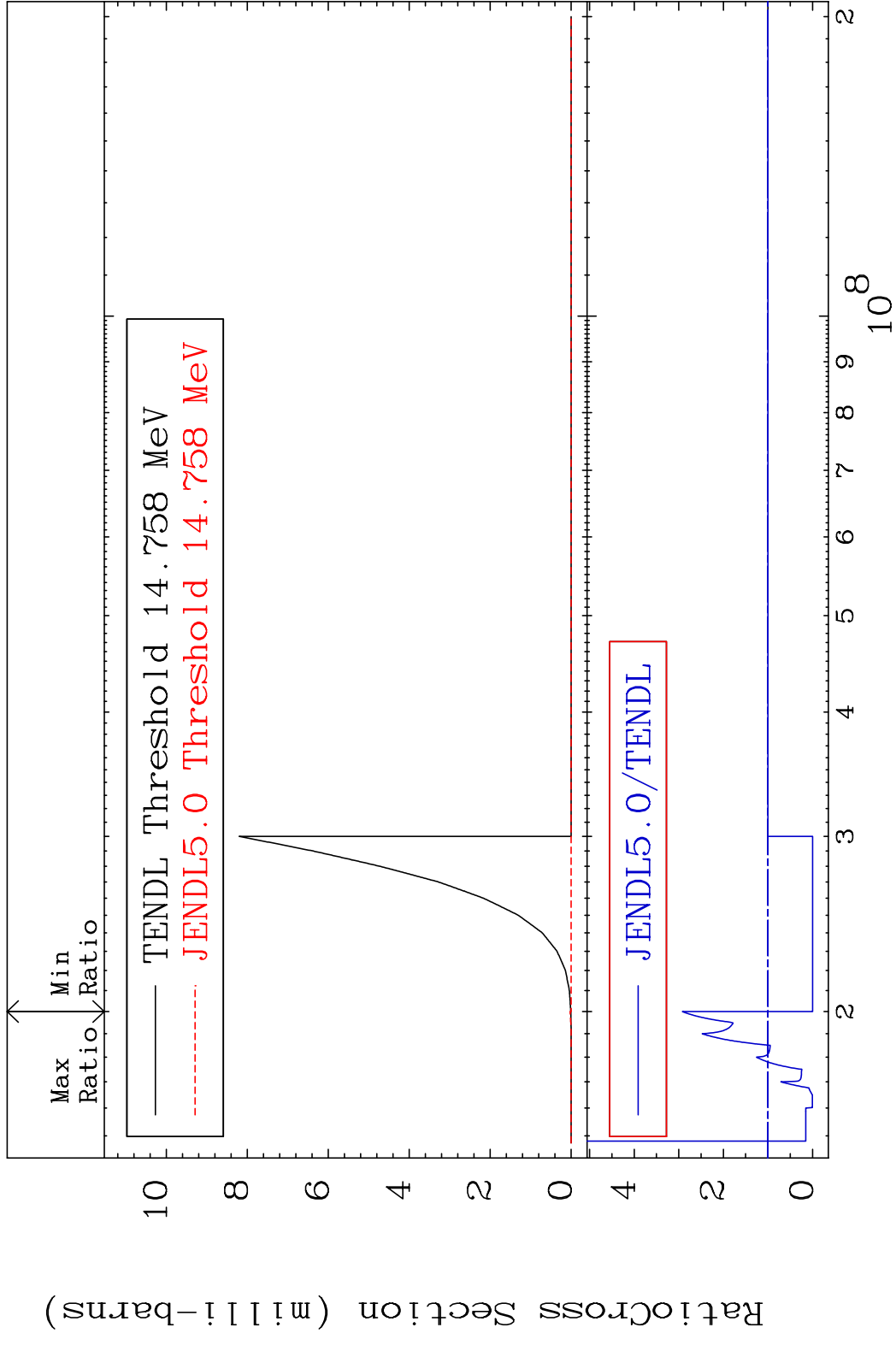
49 Incident Energy (eV) 57-La-137

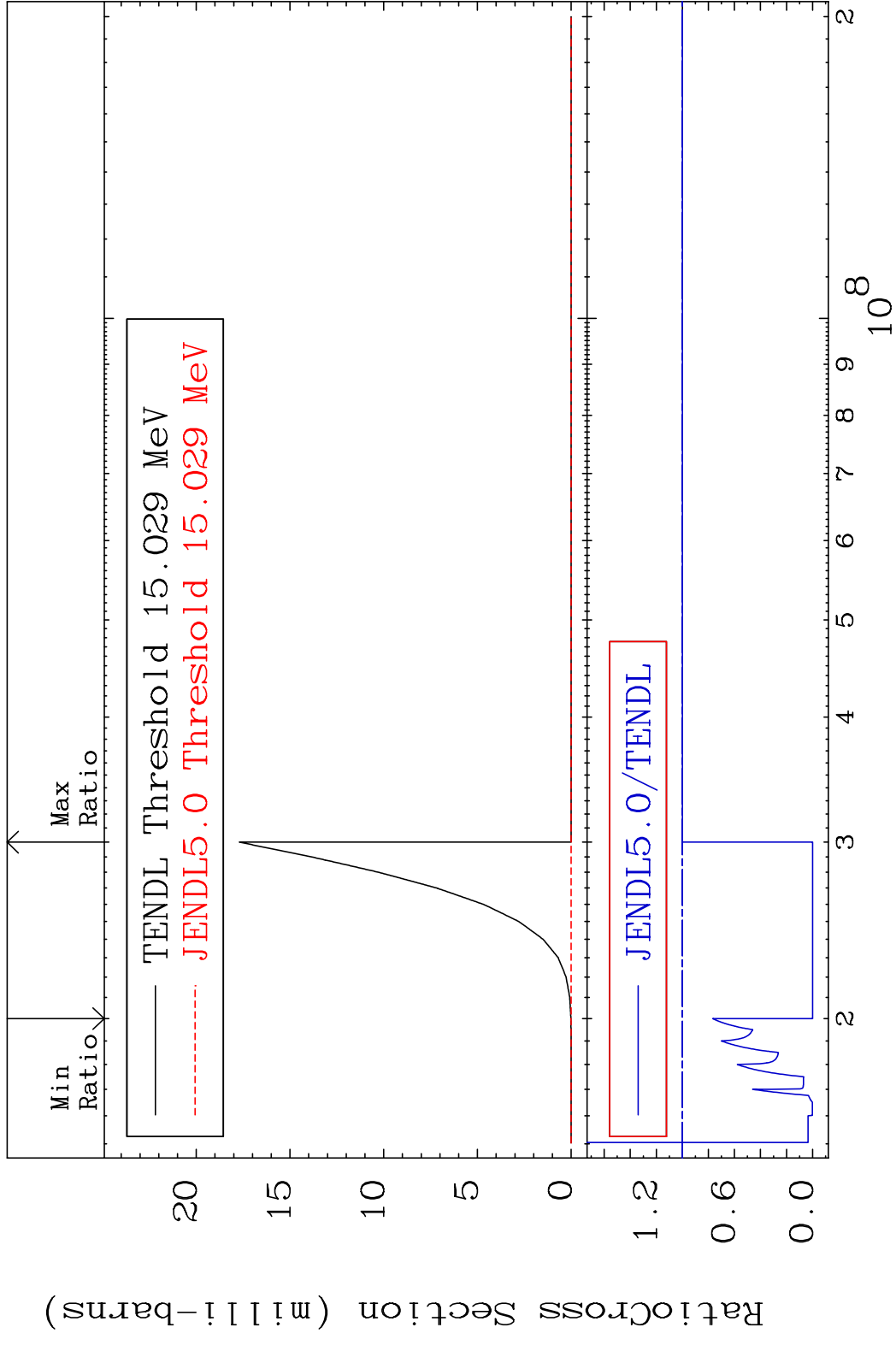




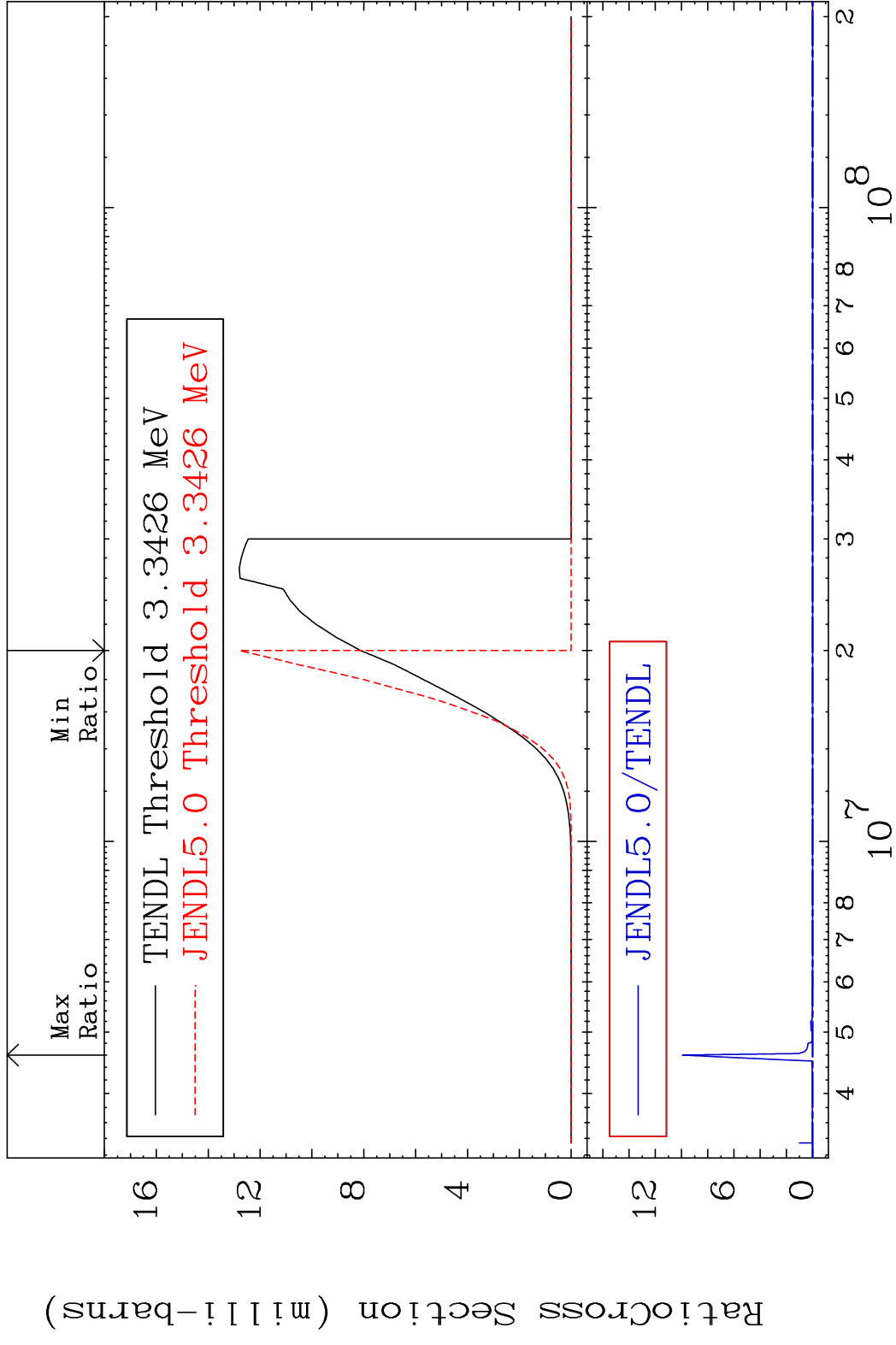


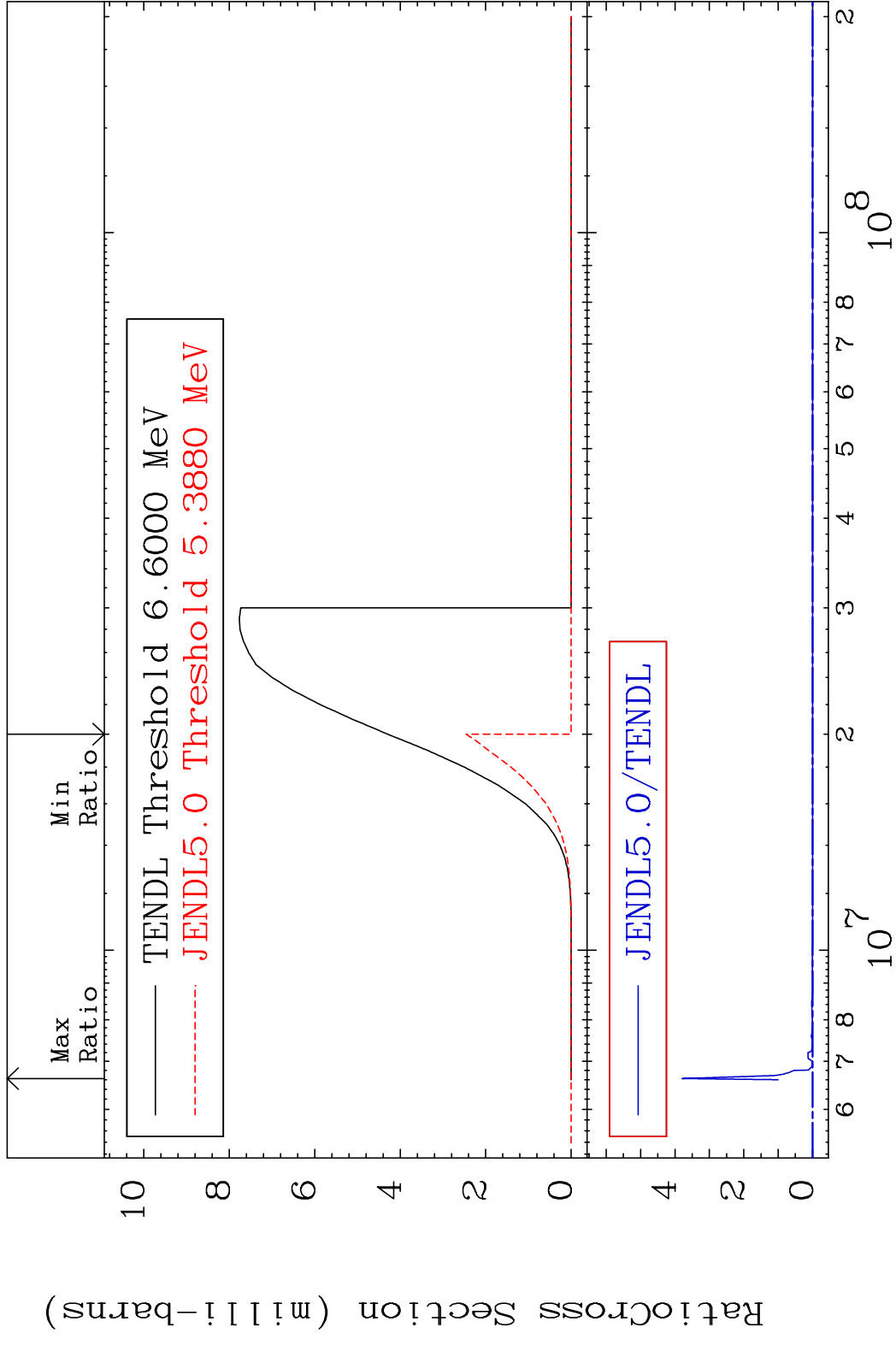


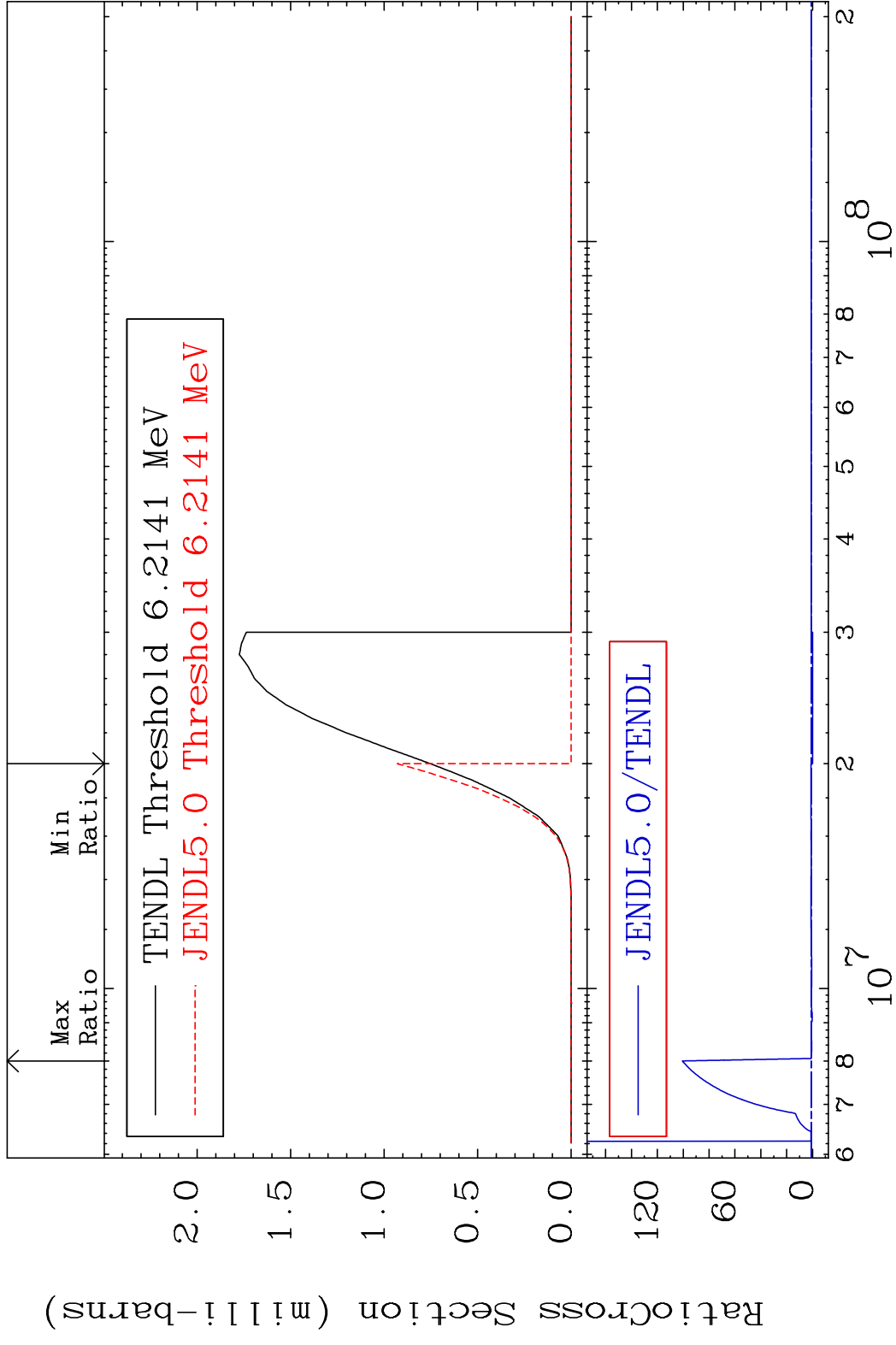




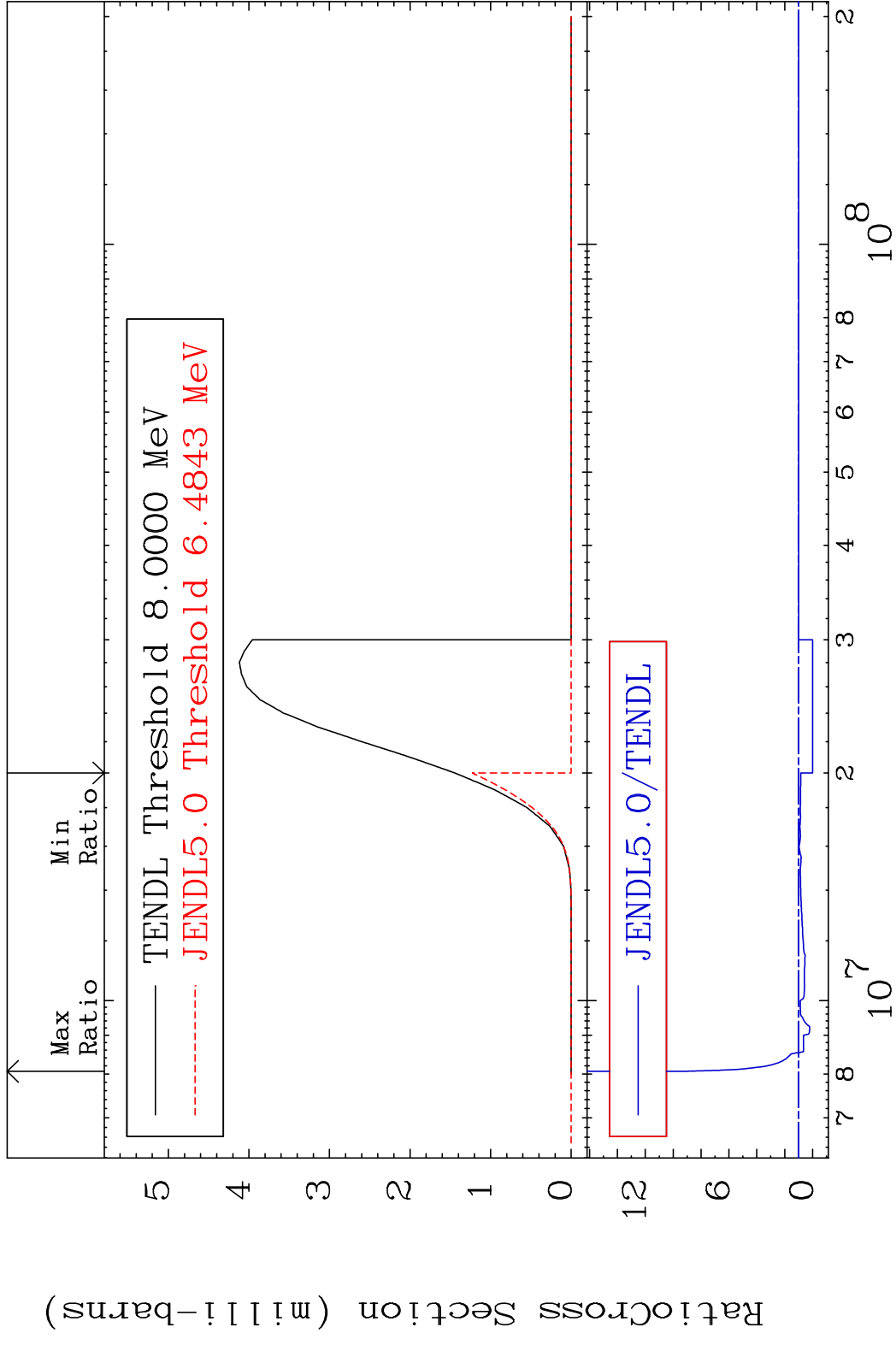




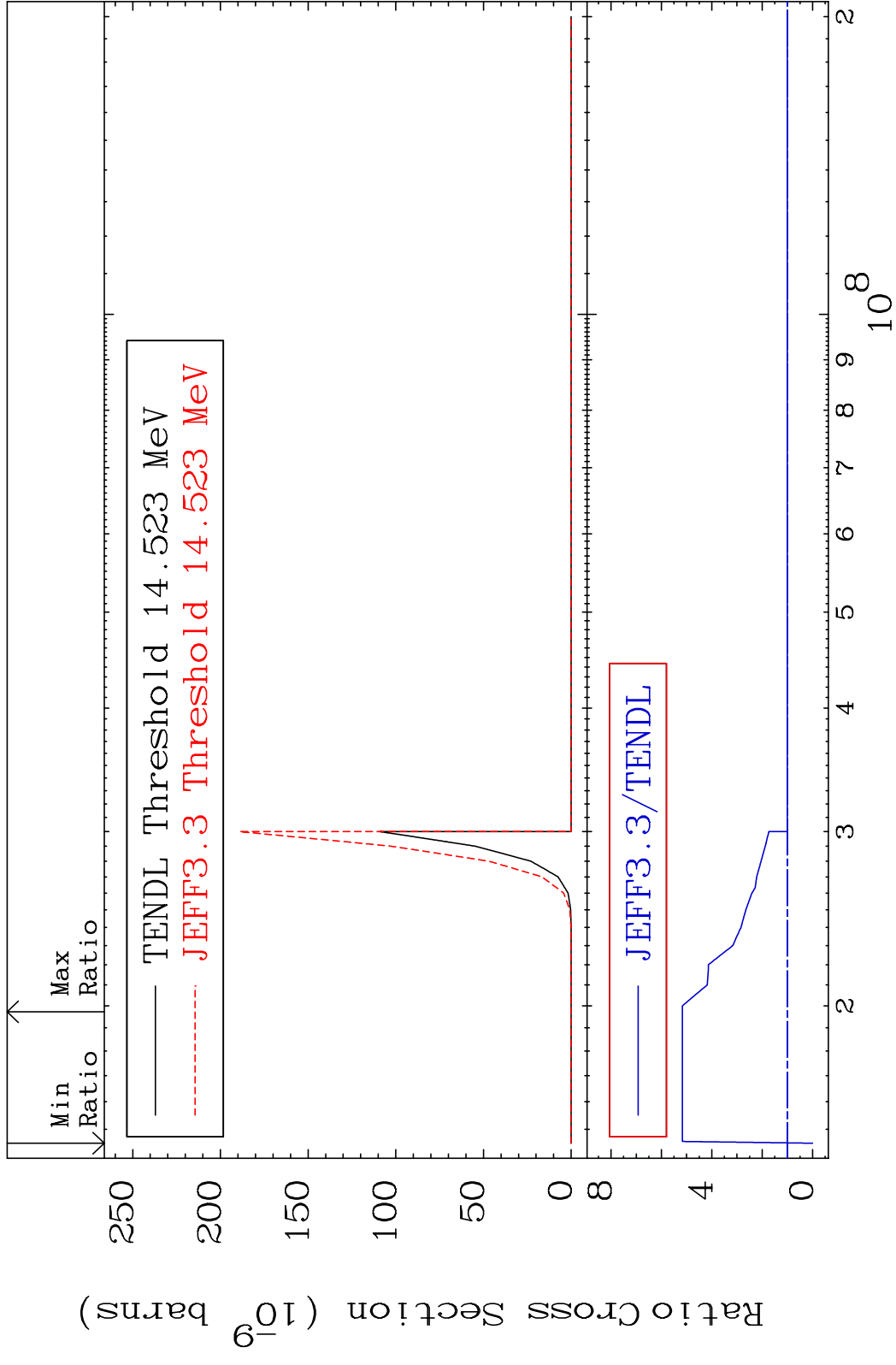




MAT 5722 (n, t):56-Ba-135m2 57-La-137  
 Radionuclide Production Cross Section 834.2 %



MAT 5722 (n,p) t 57-La-137  
 Cross Section -100.0 To 416.9 %

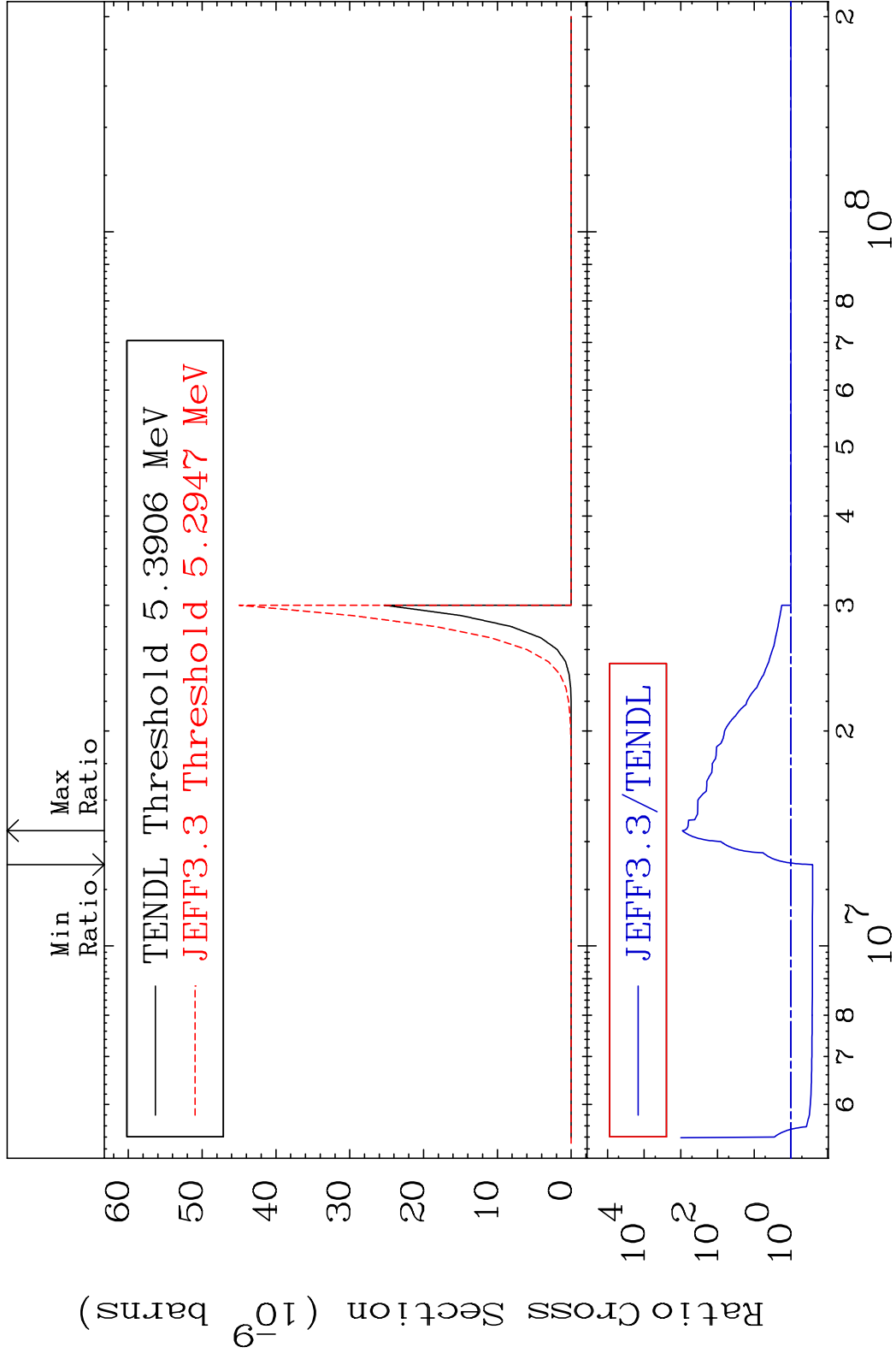


MAT 5722

(n,d)  $\alpha$

57-La-137

Cross Section -74.27 To 9999. %



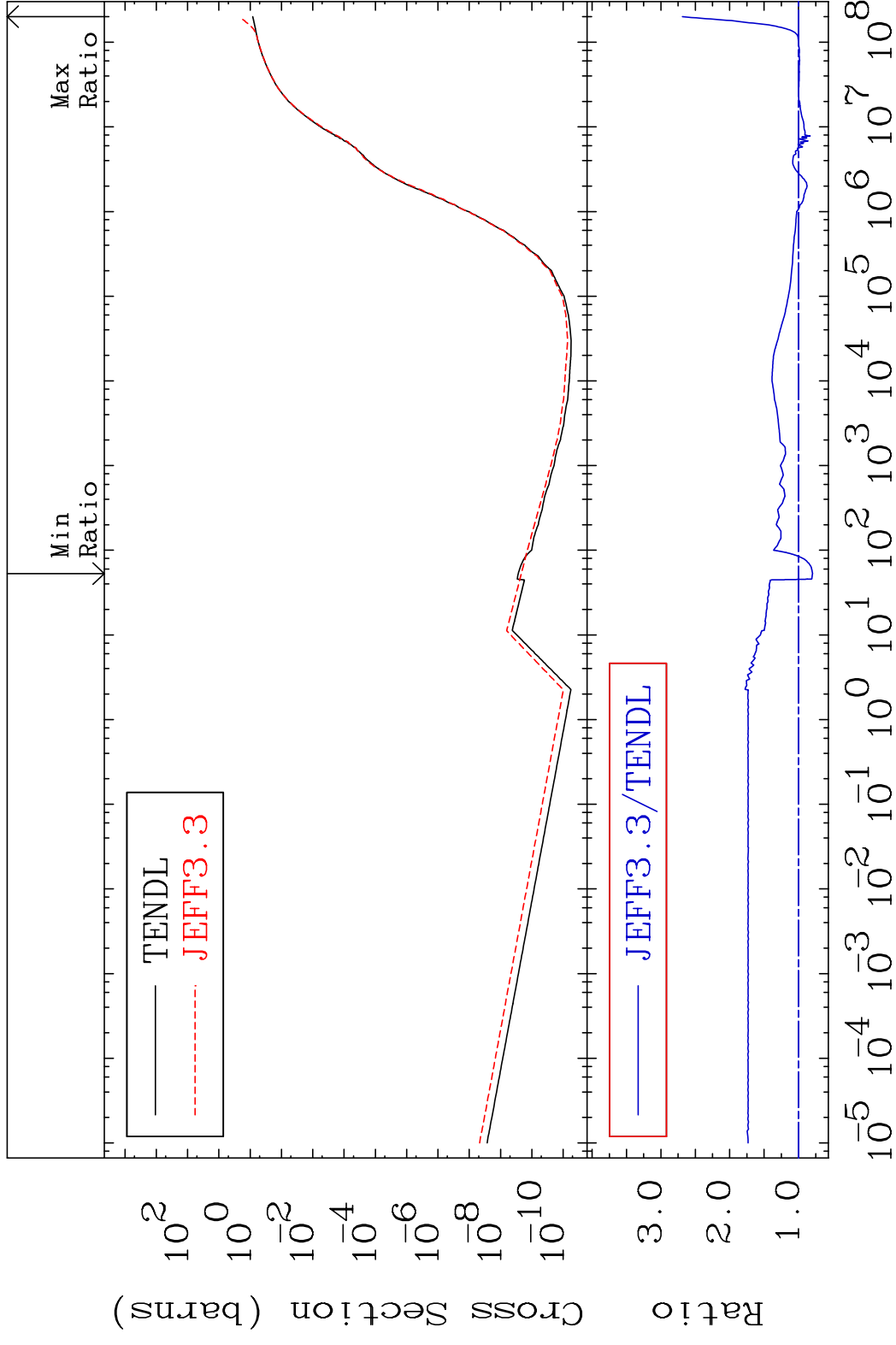
MAT 5722

Hydrogen Production

57-La-137

Cross Section

-20.43 To 168.8 %

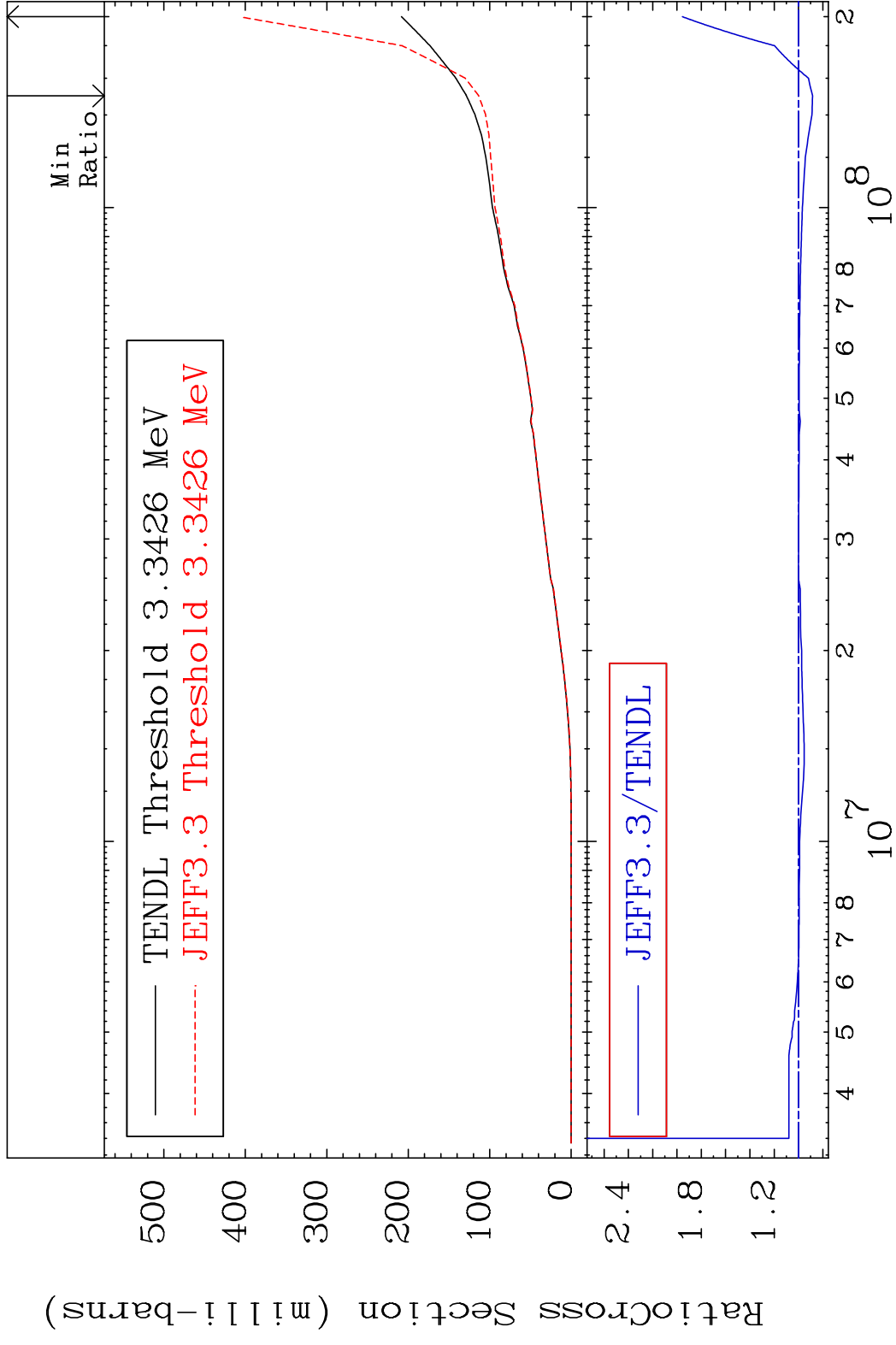


MAT 5722

Deuterium Production

57-La-137

Cross Section -11.58 To 95.60 %



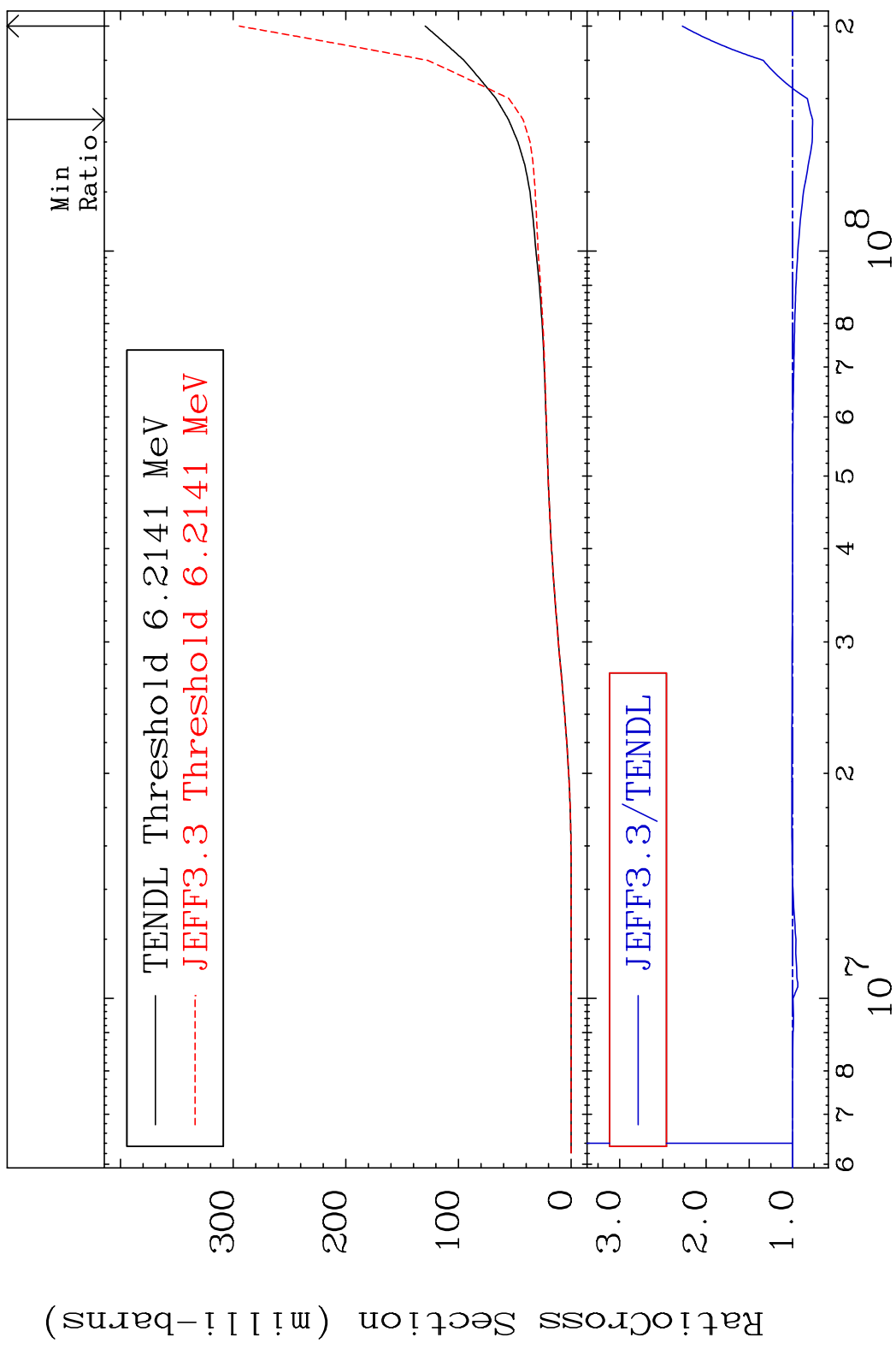


MAT 5722

Tritium Production

57-La-137

Cross Section -23.25 To 127.4 %



64

Incident Energy (eV)

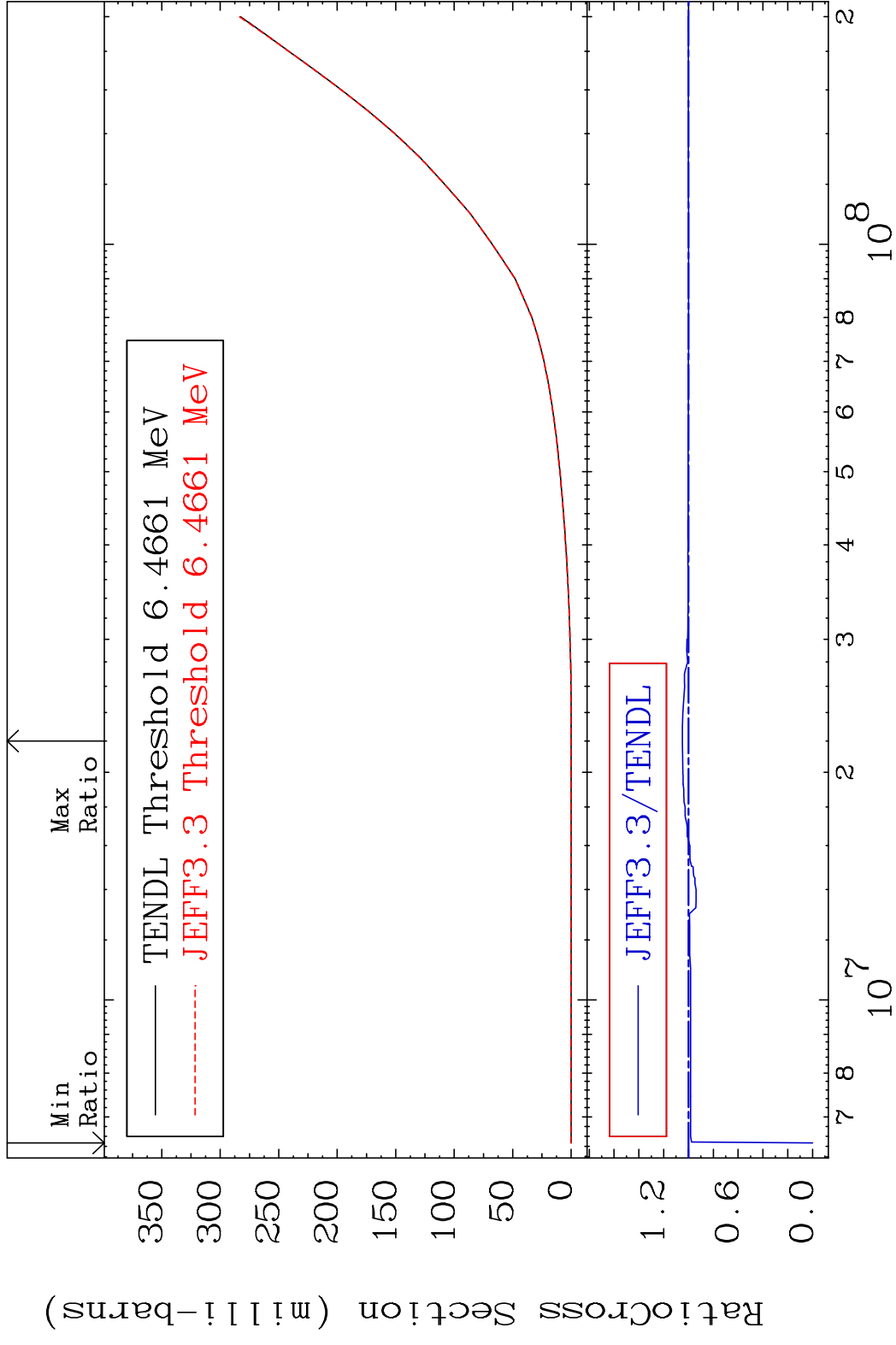
57-La-137

MAT 5722

He-3 Production

57-La-137

Cross Section -100.0 To 4.953 %

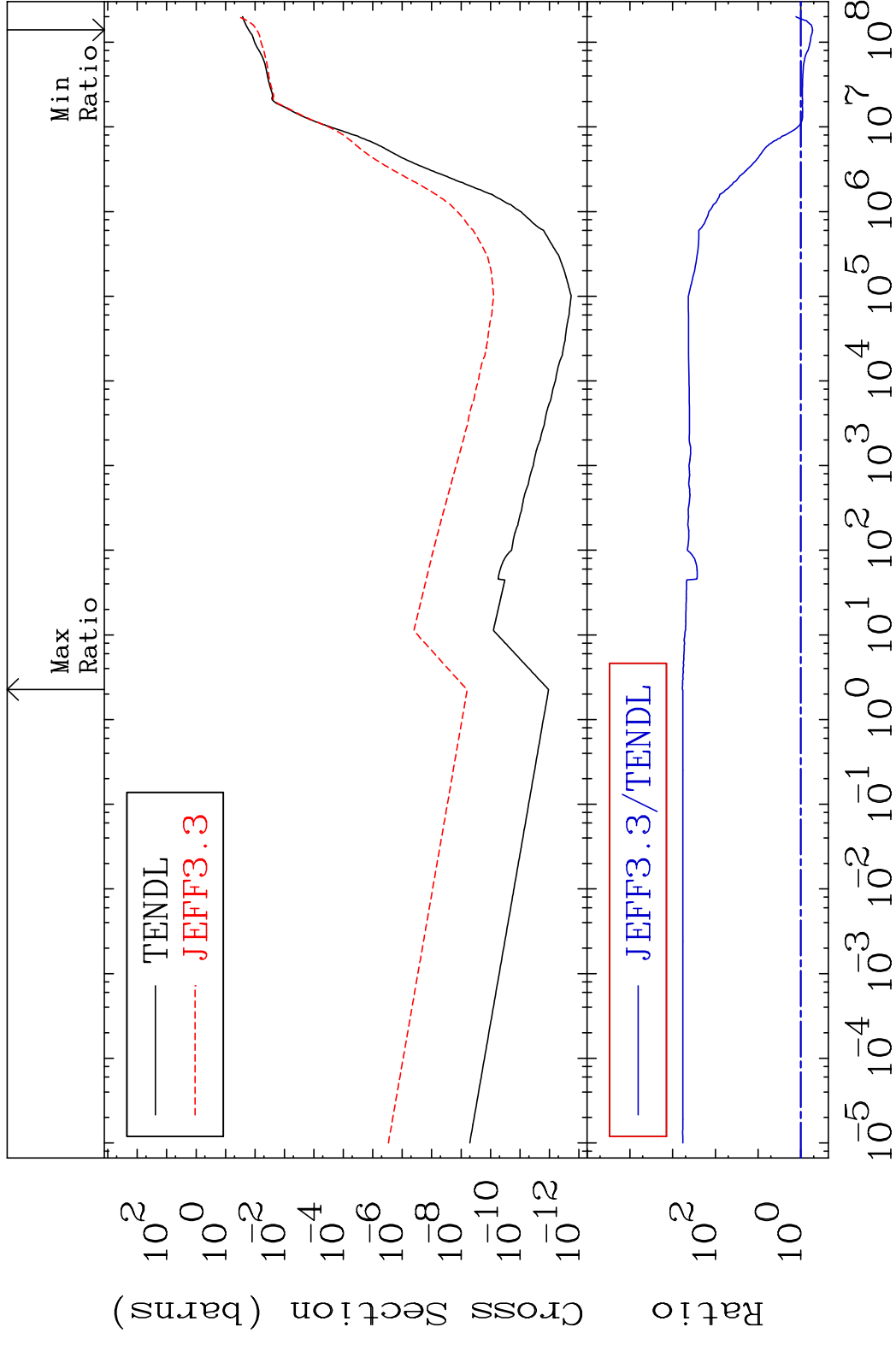


MAT 5722

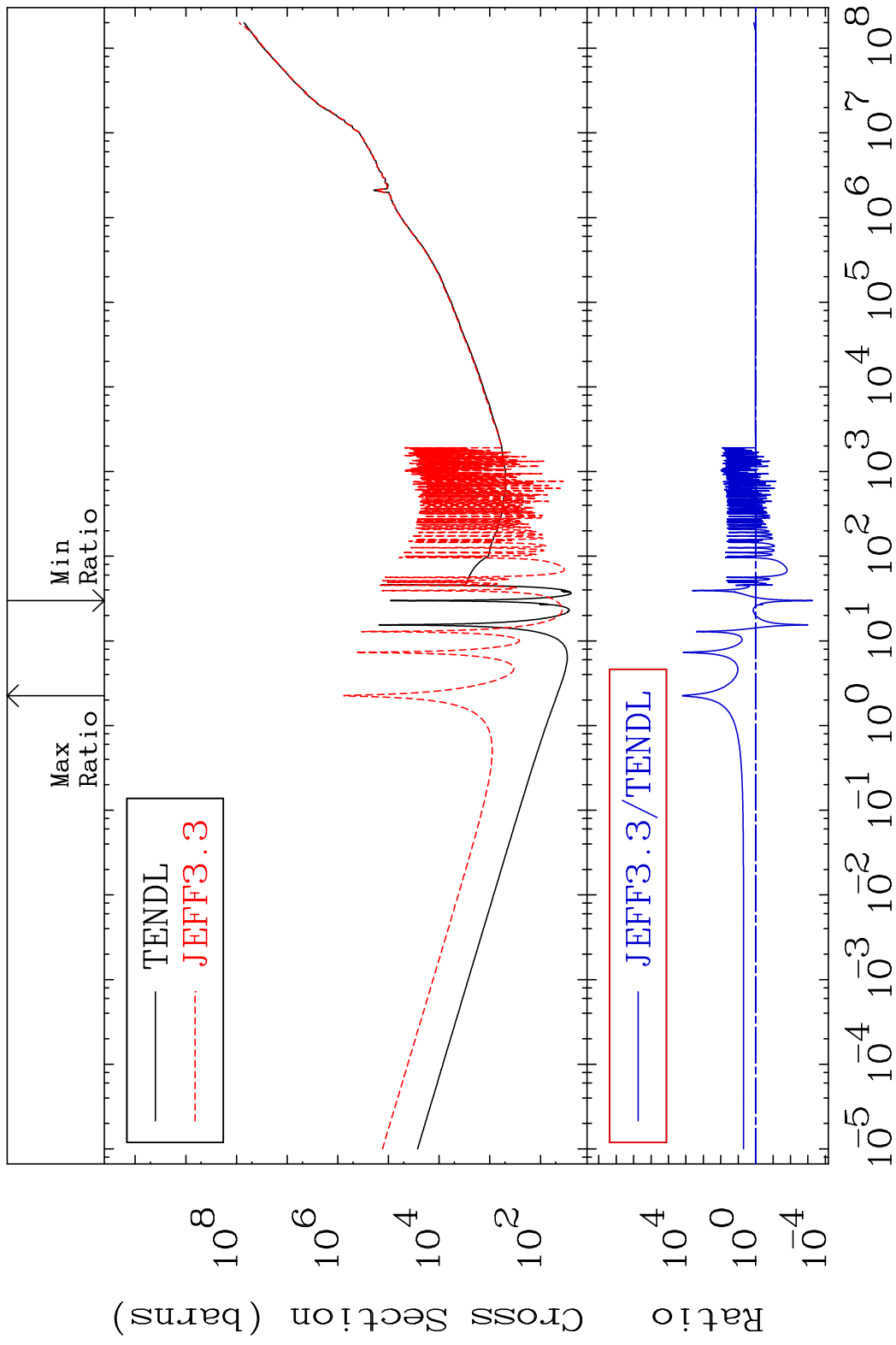
He-4 Production

57-La-137

Cross Section -46.91 To 9999. %



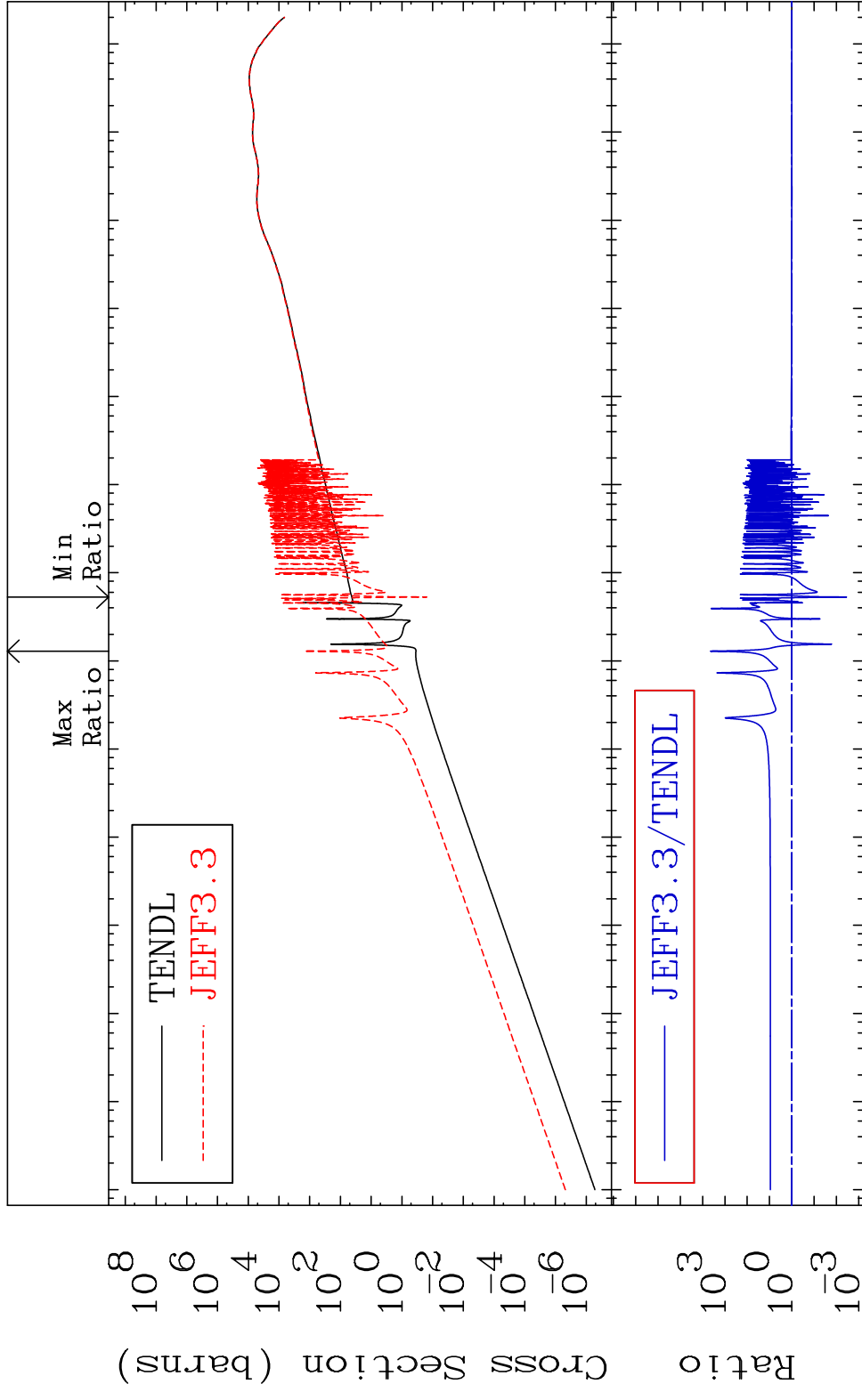
MAT 5722 Kerma total (eV-barns) 57-La-137  
 Cross Section -99.95 To 9999. %



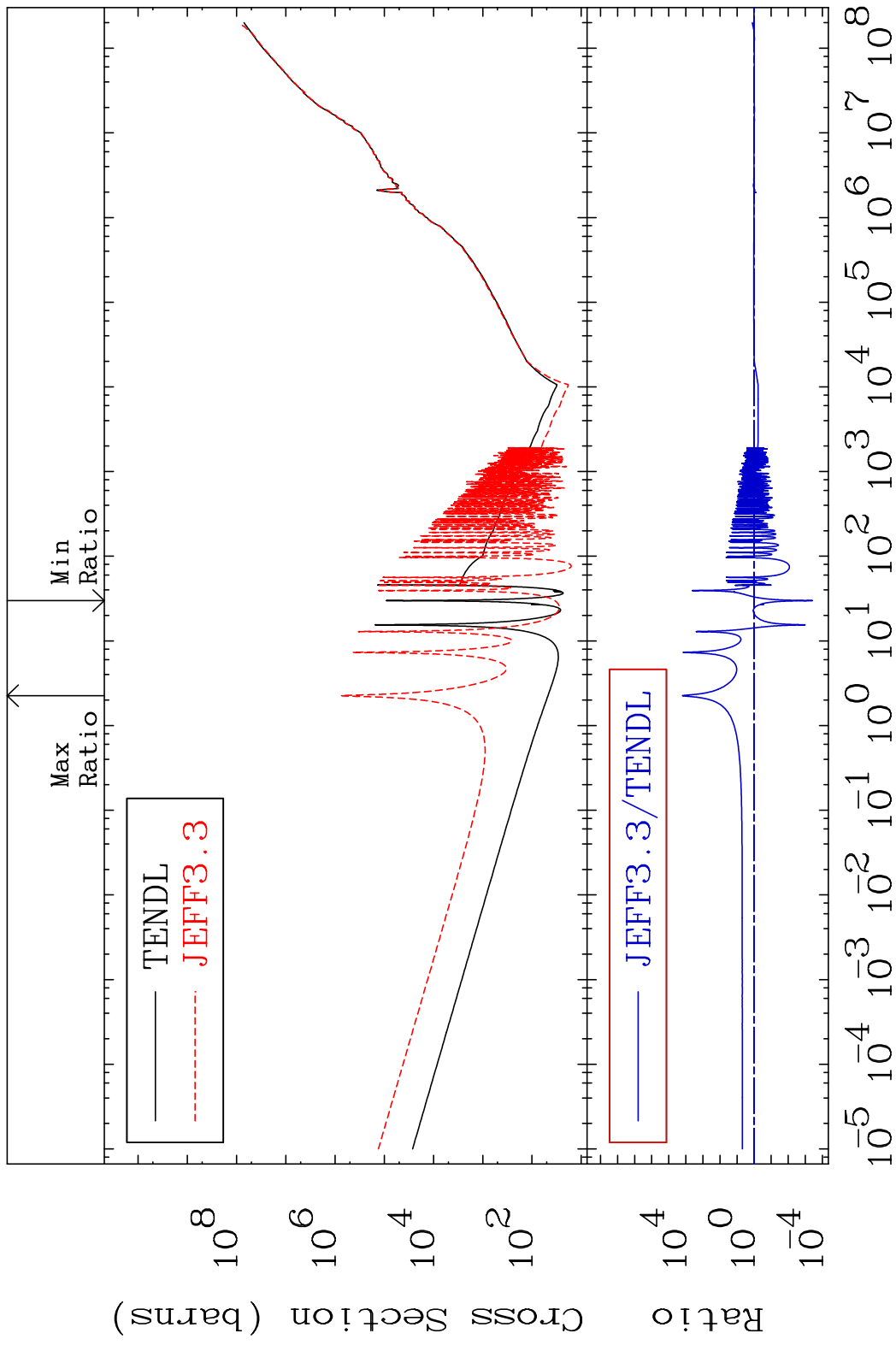
MAT 5722

Kerma elastic Cross Section -99.64 To 9999. %

57-La-137



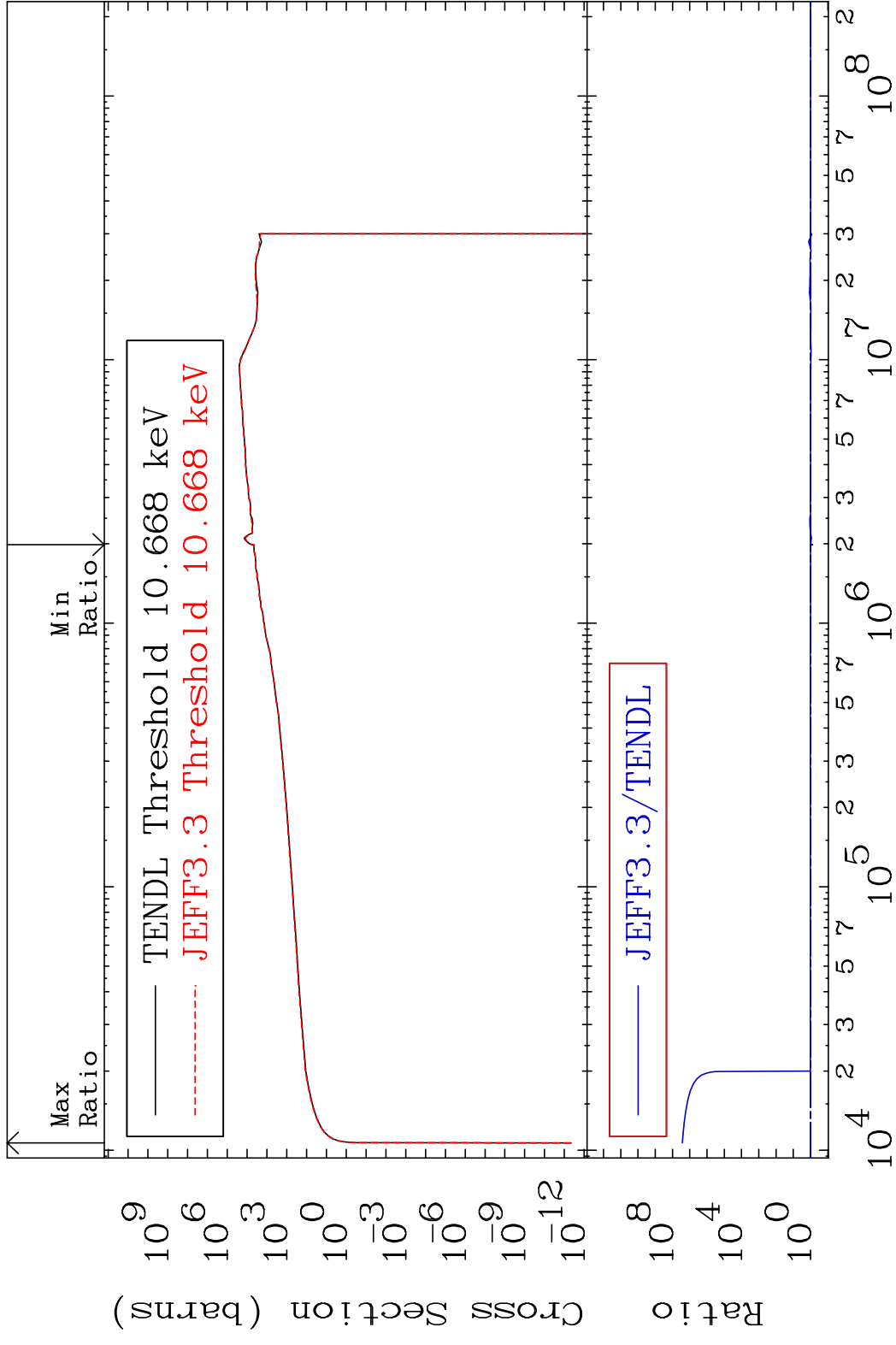
MAT 5722 Kerma non-elastic (all but mt2) 57-La-137  
 Cross Section -99.96 To 9999. %



MAT 5722

Kerma inelastic (mt51-91) 57-La-137

Cross Section -23.04 To 9999. %

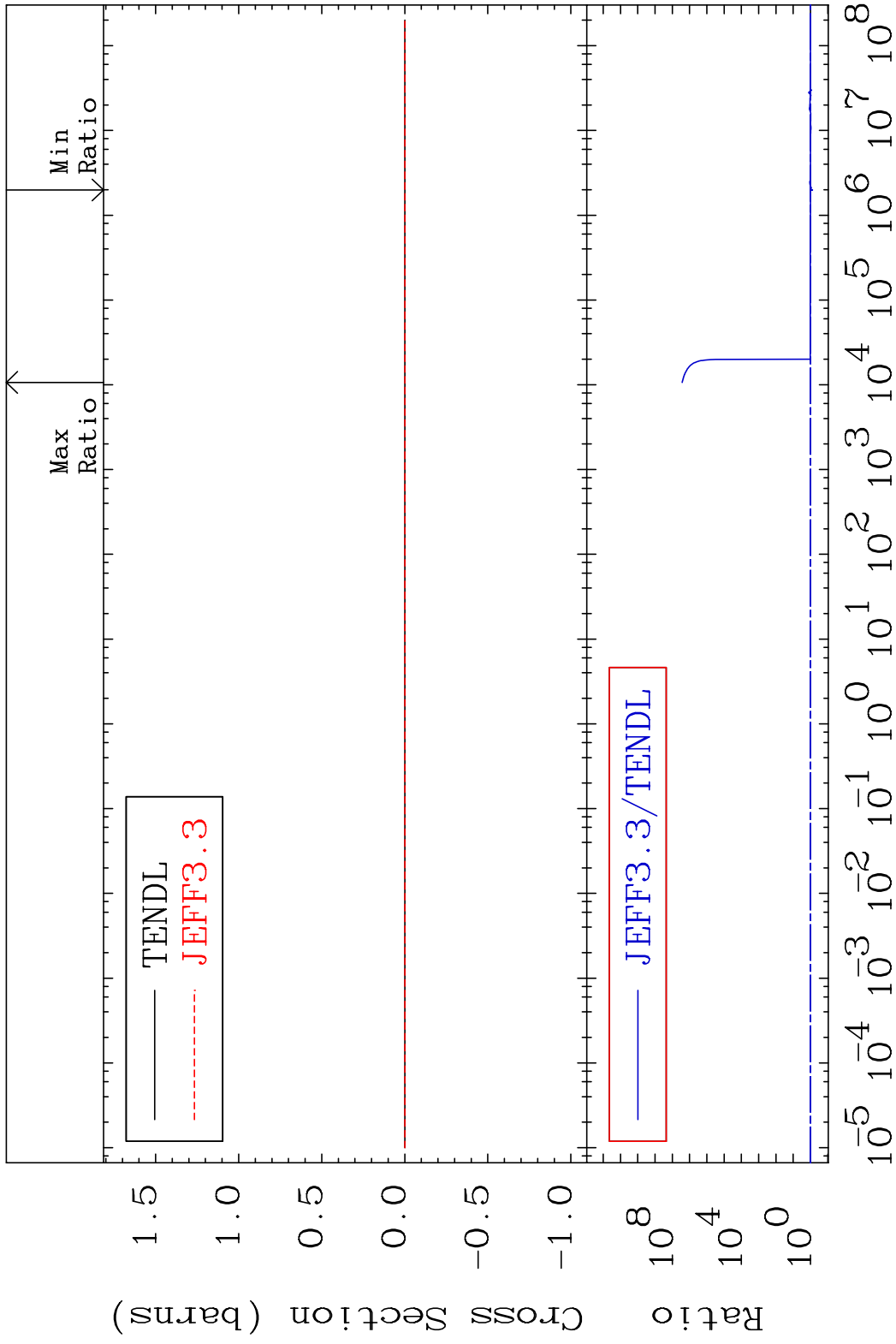


70

Incident Energy (eV)

57-La-137

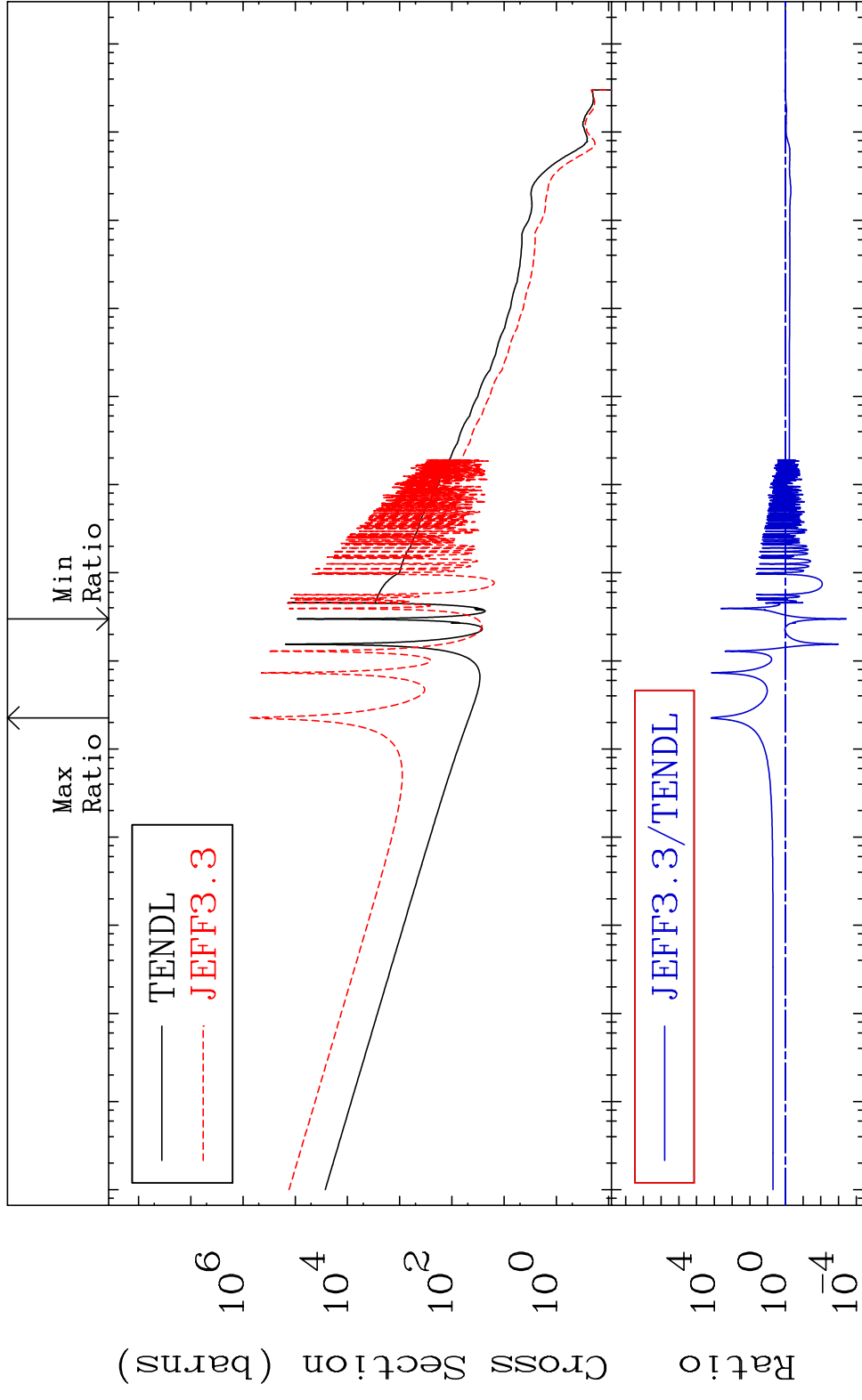
MAT 5722 Kerma fission (mt18 or mt19-20-21-38) 57-La-137  
 Cross Section -23.04 To 9999. %



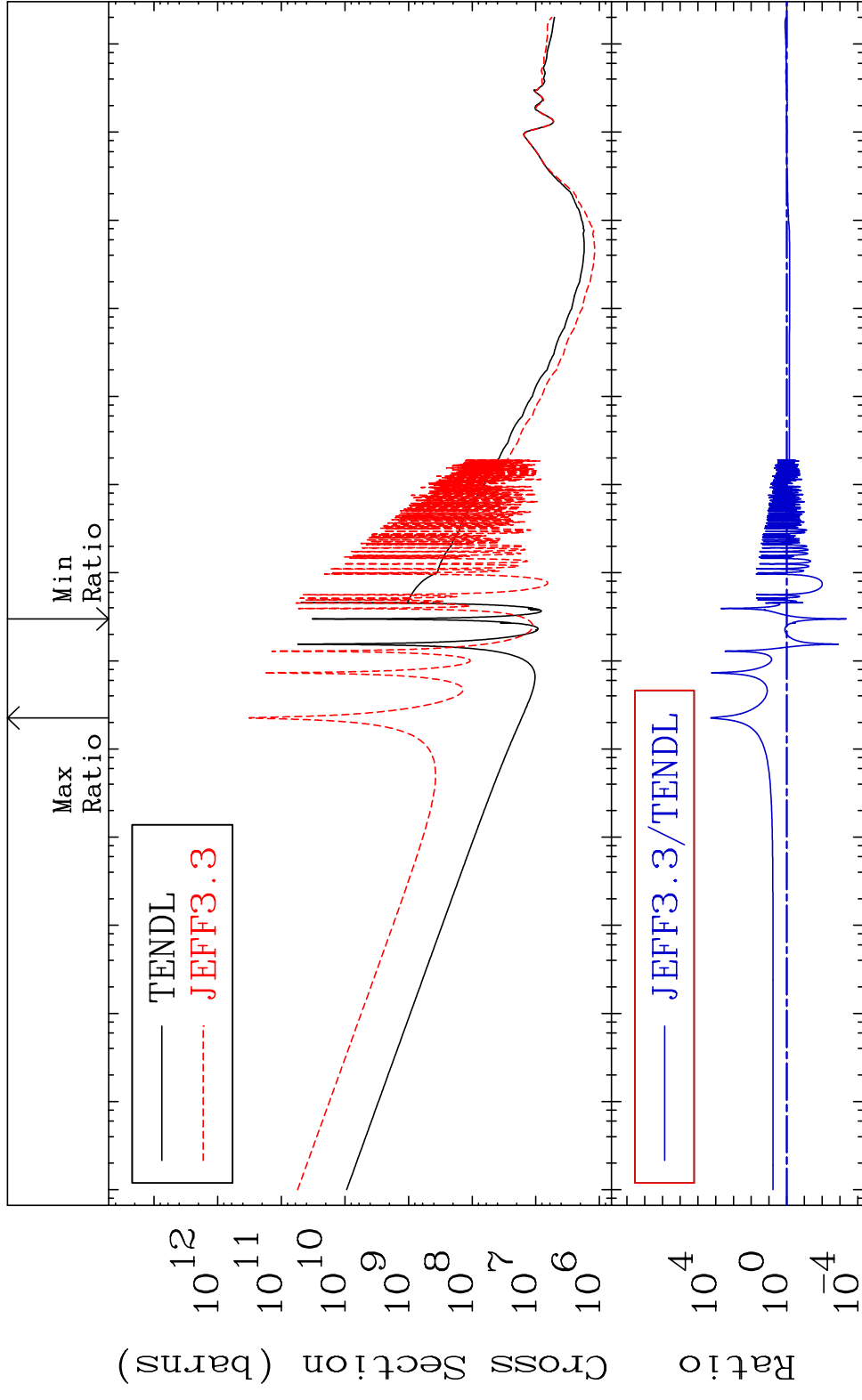


MAT 5722

Kerma capture (mt102) 57-La-137  
Cross Section -99.96 To 9999. %

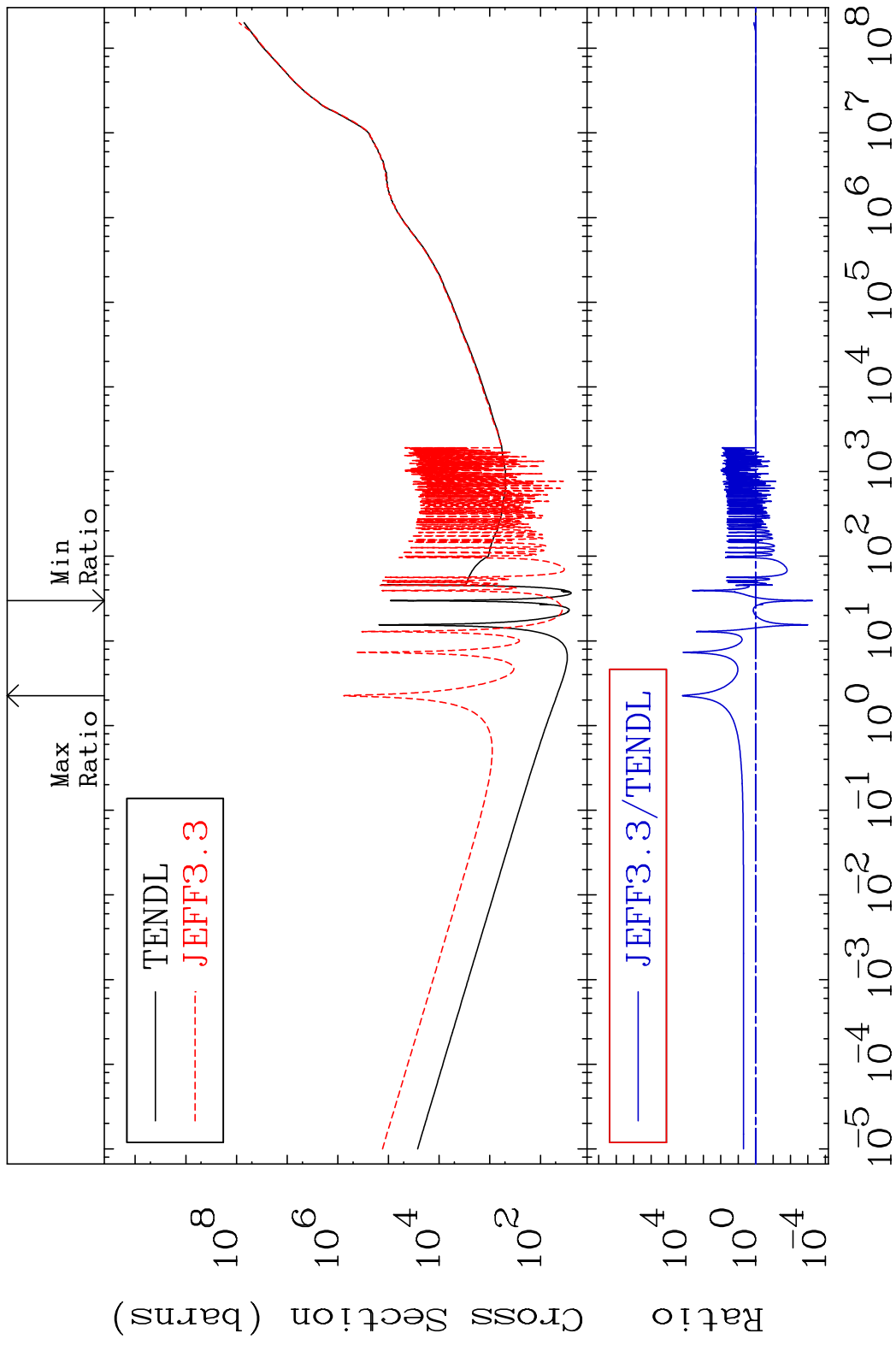


MAT 5722 Total photon (eV-barns) 57-La-137  
 Cross Section -99.96 To 9999. %



73 Incident Energy (eV) 57-La-137

MAT 5722 Total kinematic kerma (high limit) 57-La-137  
 Cross Section -99.95 To 9999. %

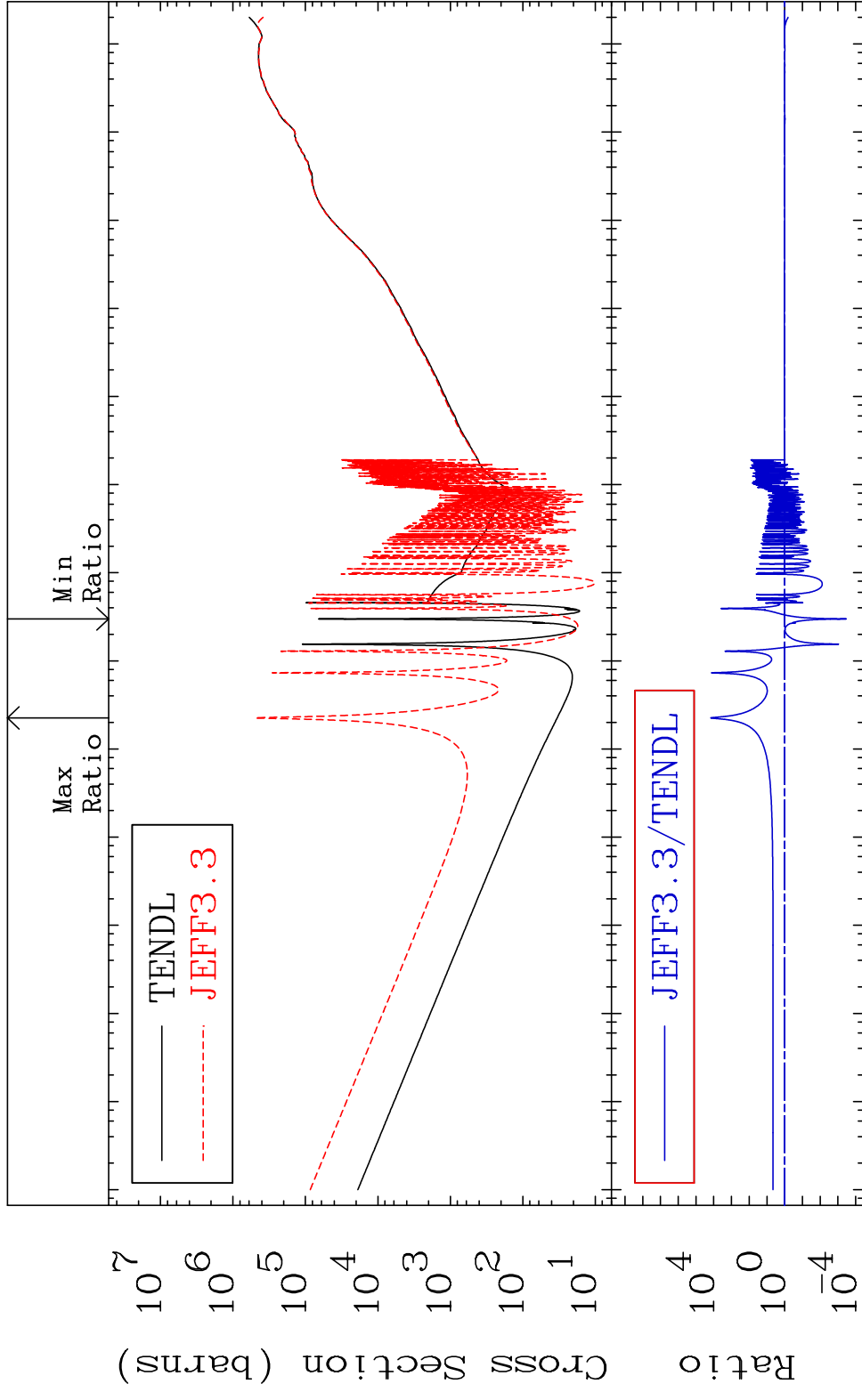


MAT 5722

Dpa total (eV-barns)

57-La-137

Cross Section -99.97 To 9999. %

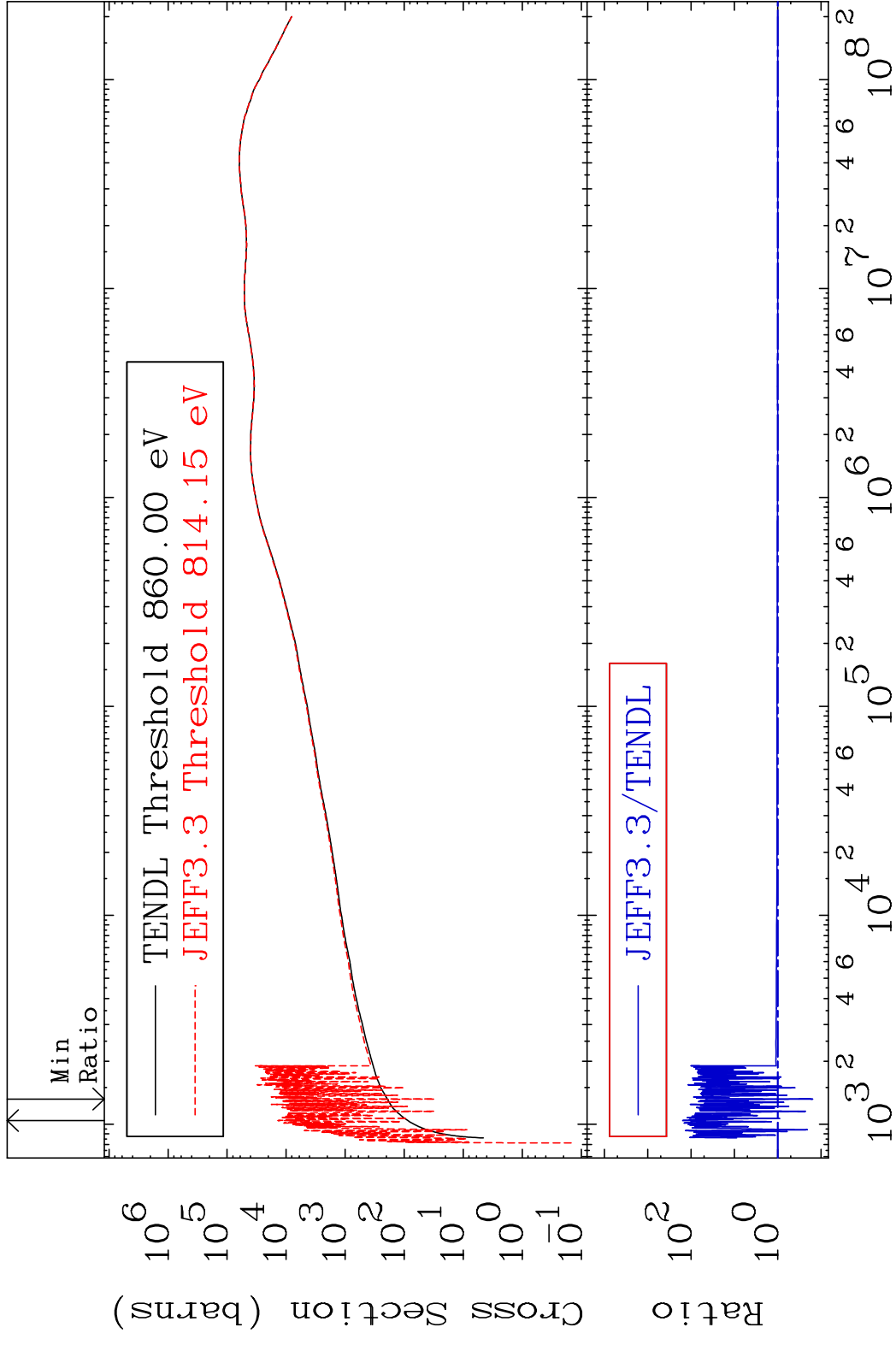


MAT 5722

Dpa elastic (mt2)

57-La-137

Cross Section -84.38 To 9999. %



76

Incident Energy (eV)

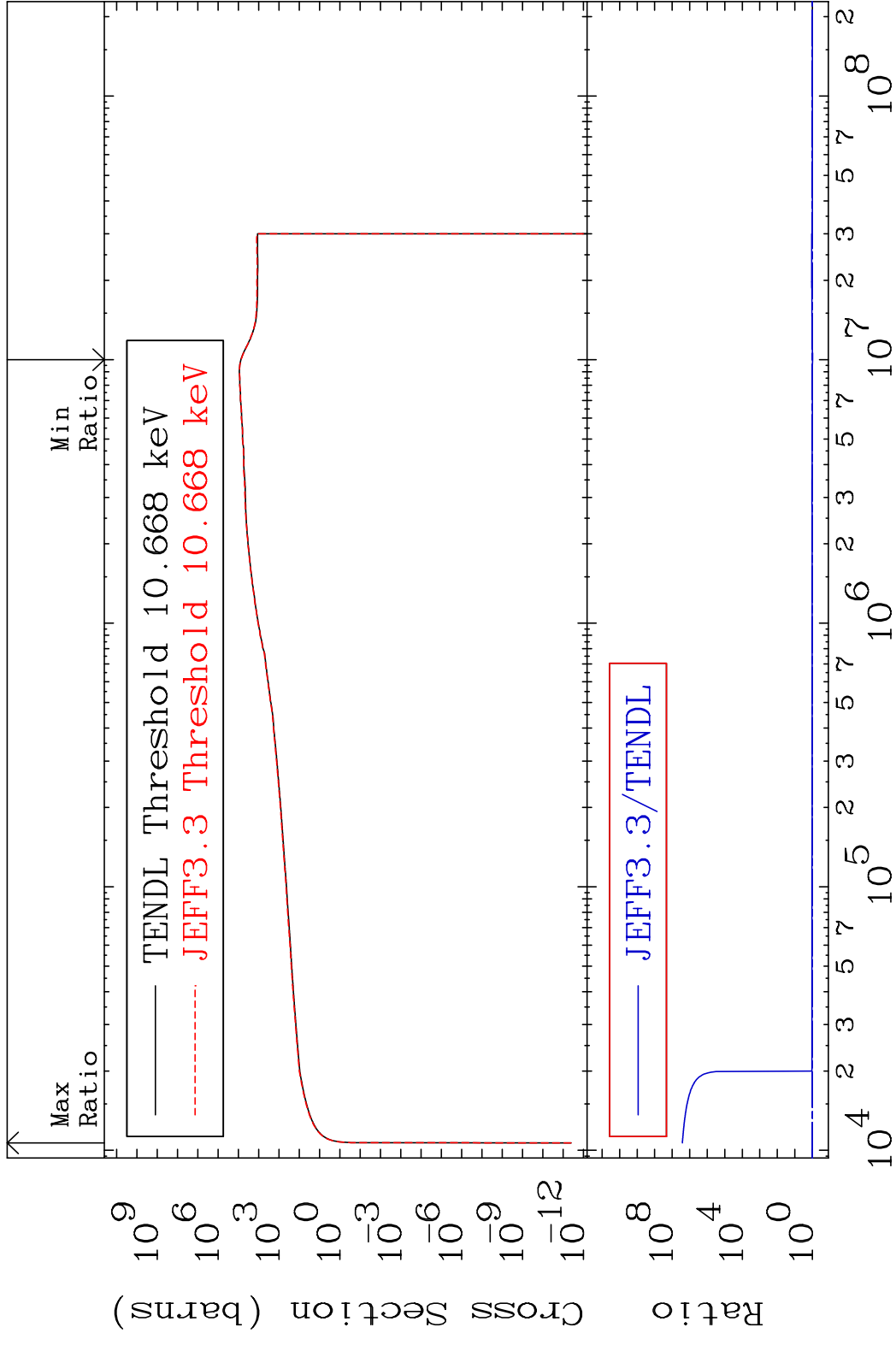
57-La-137

MAT 5722

Dpa inelastic (mt51-91)

57-La-137

Cross Section -2.541 To 9999. %

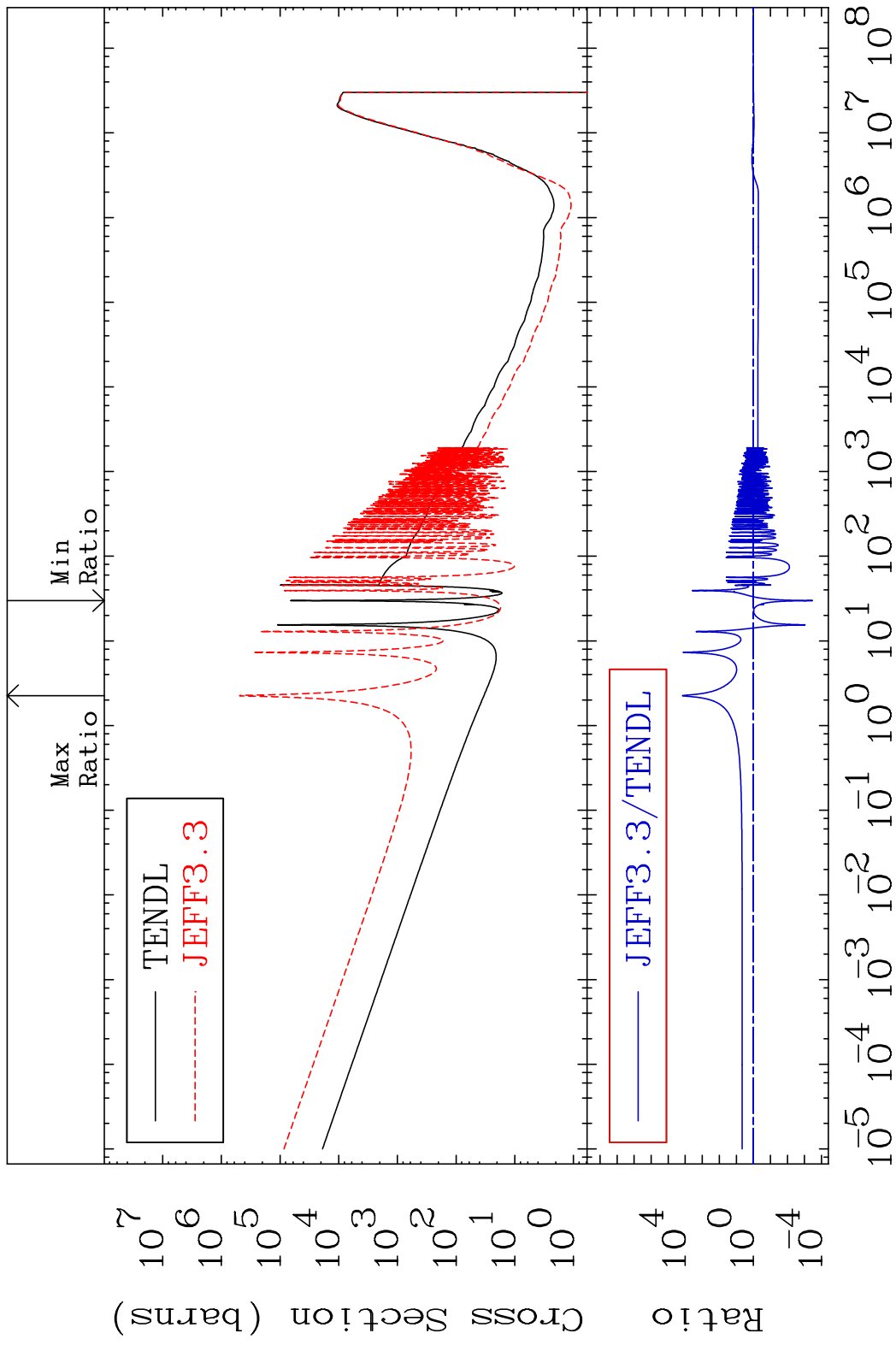


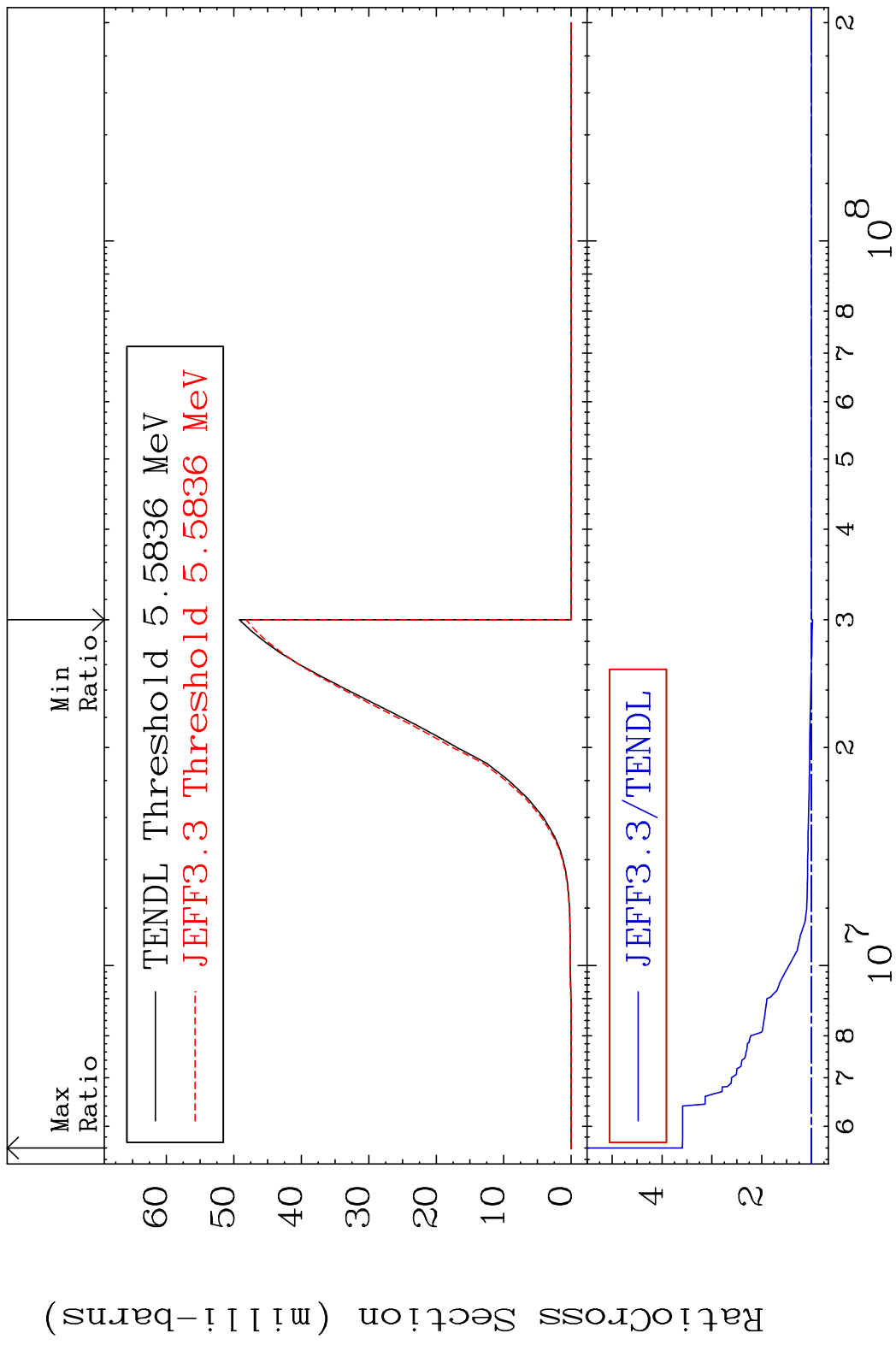
77

Incident Energy (eV)

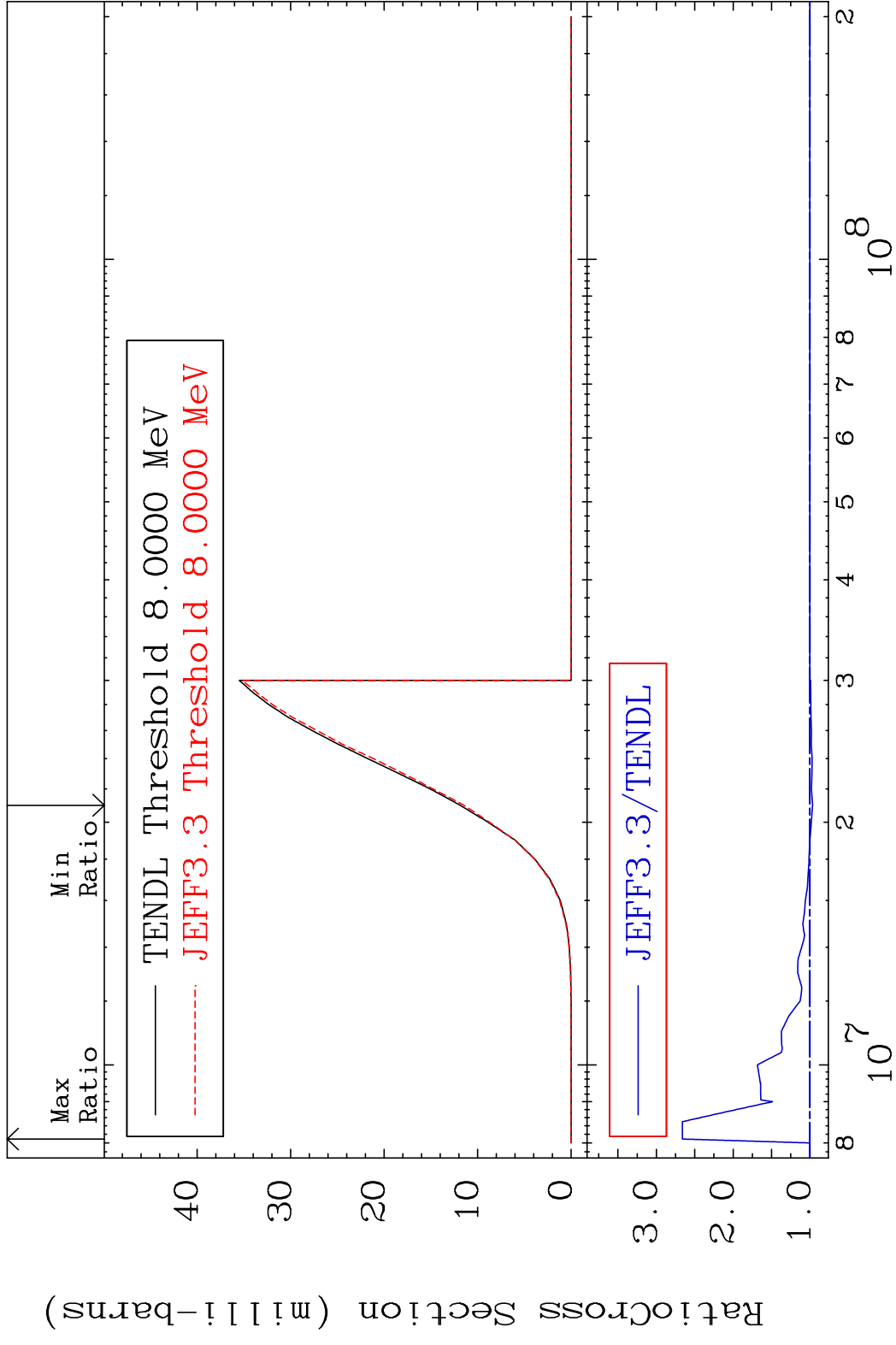
57-La-137

MAT 5722 Dpa disappearance (mt102 -120) 57-La-137  
 Cross Section -99.97 To 9999. %

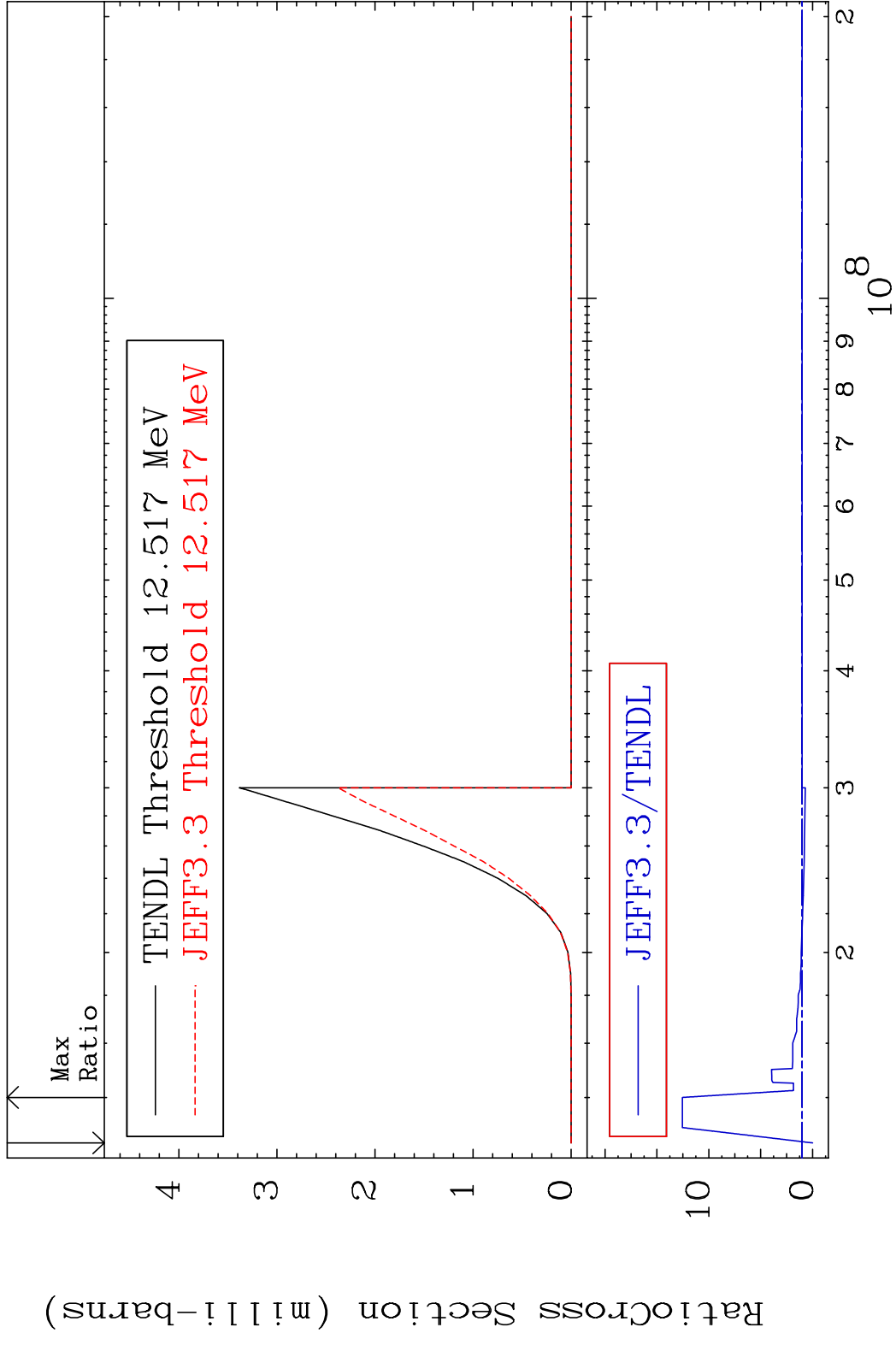


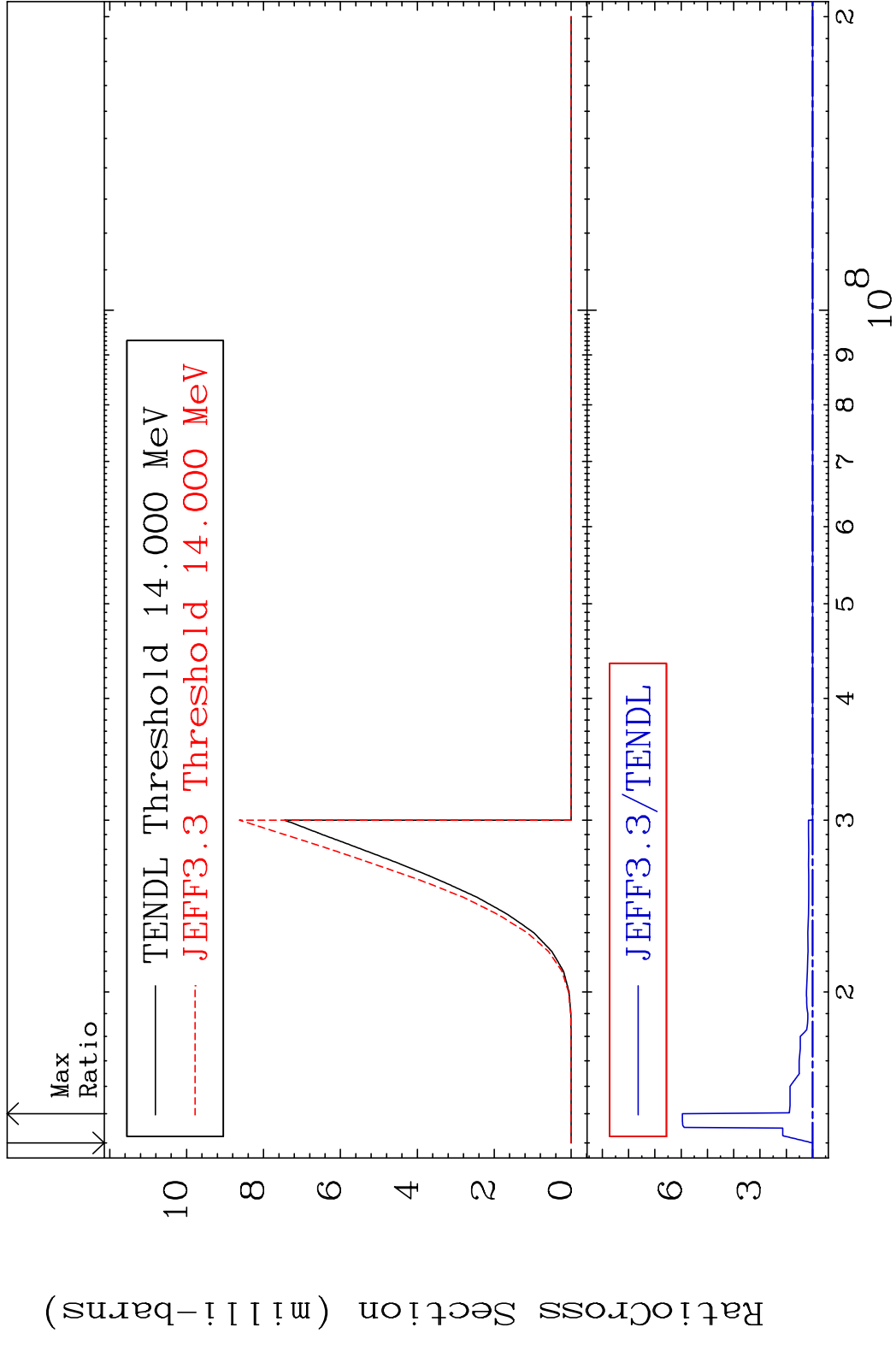


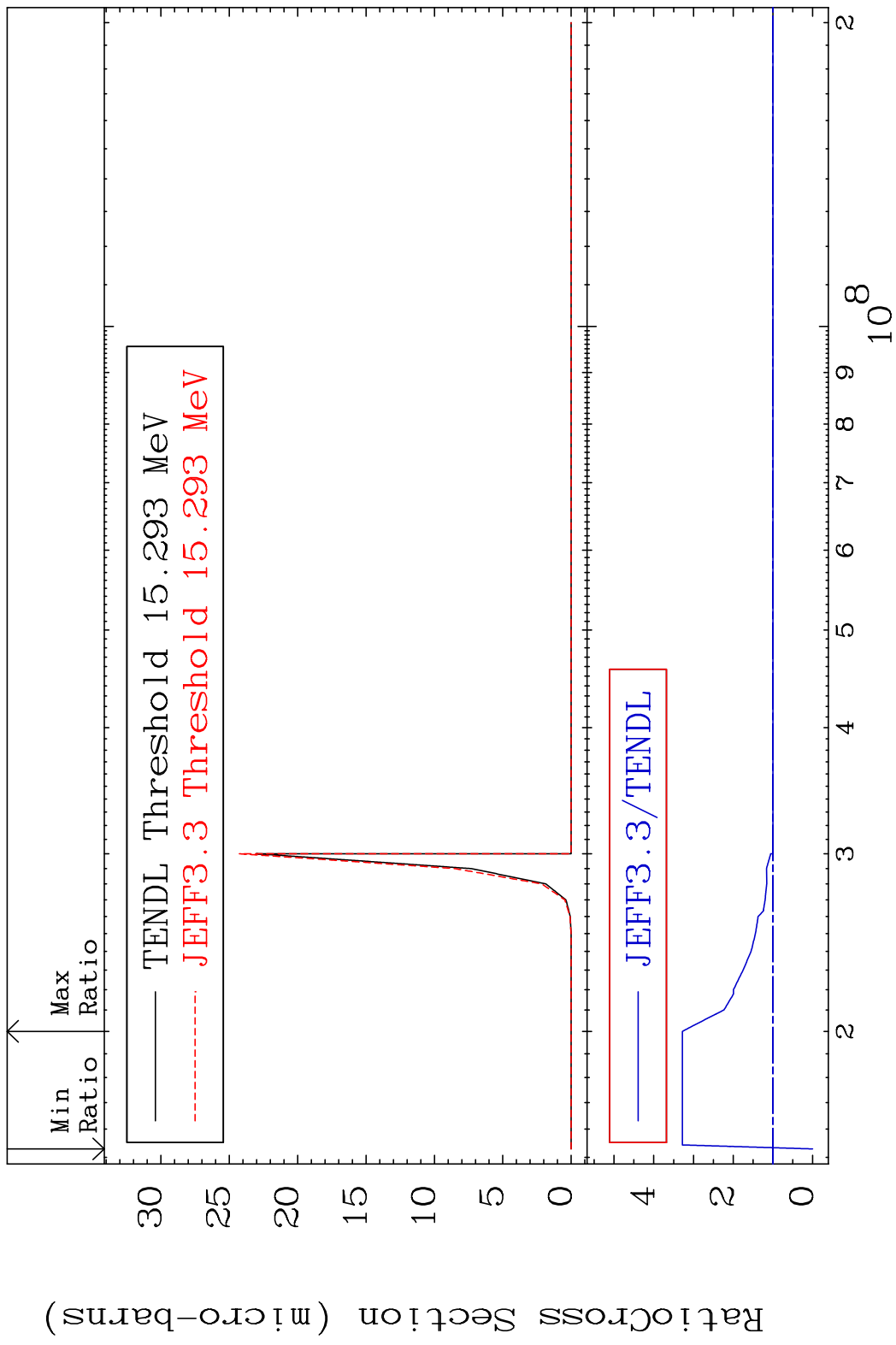




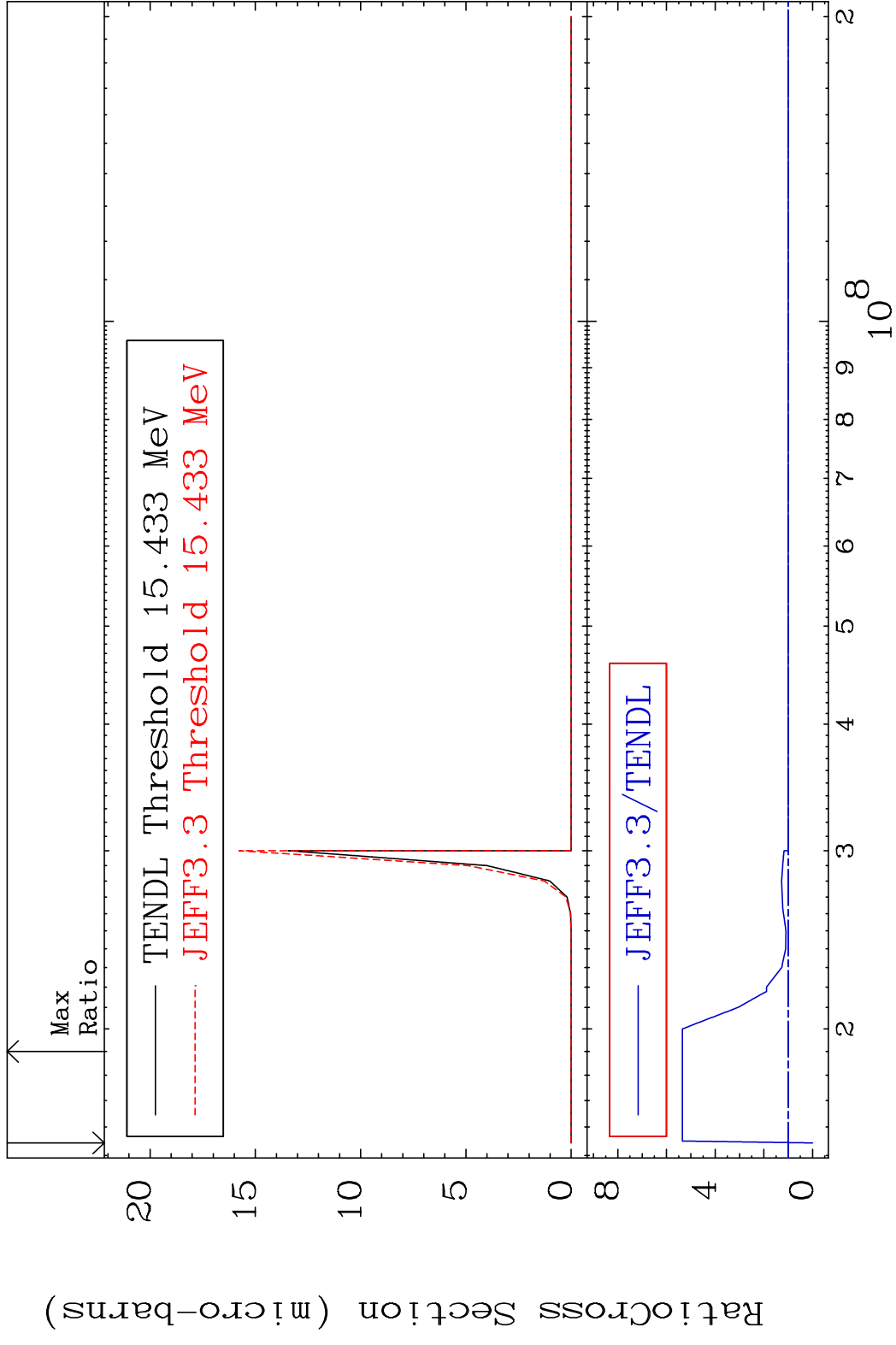
MAT 5722 (n, n') d:56-Ba-135g 57-La-137  
 Radionuclide Production Cross Section 1800 d 1155. %

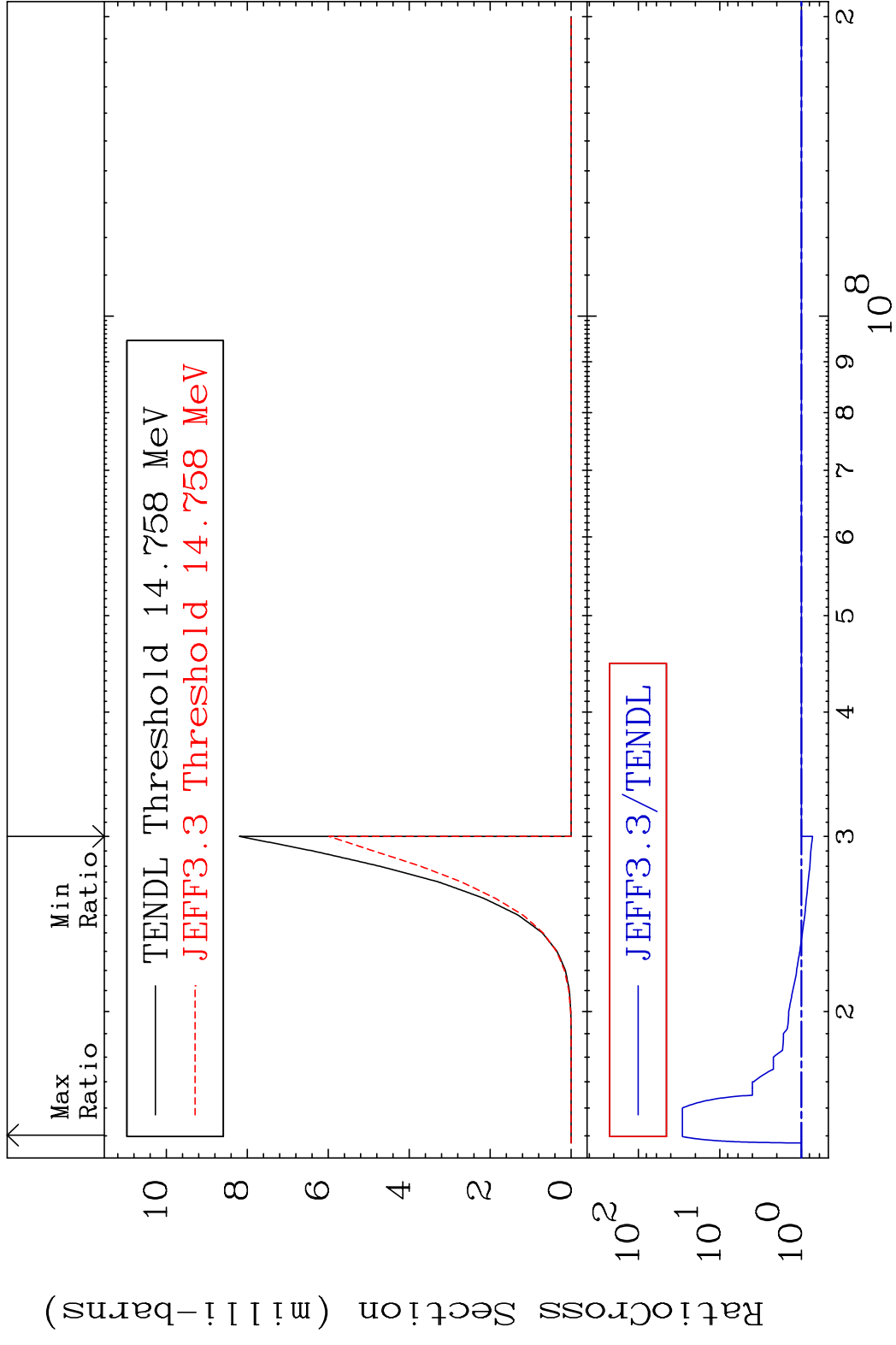


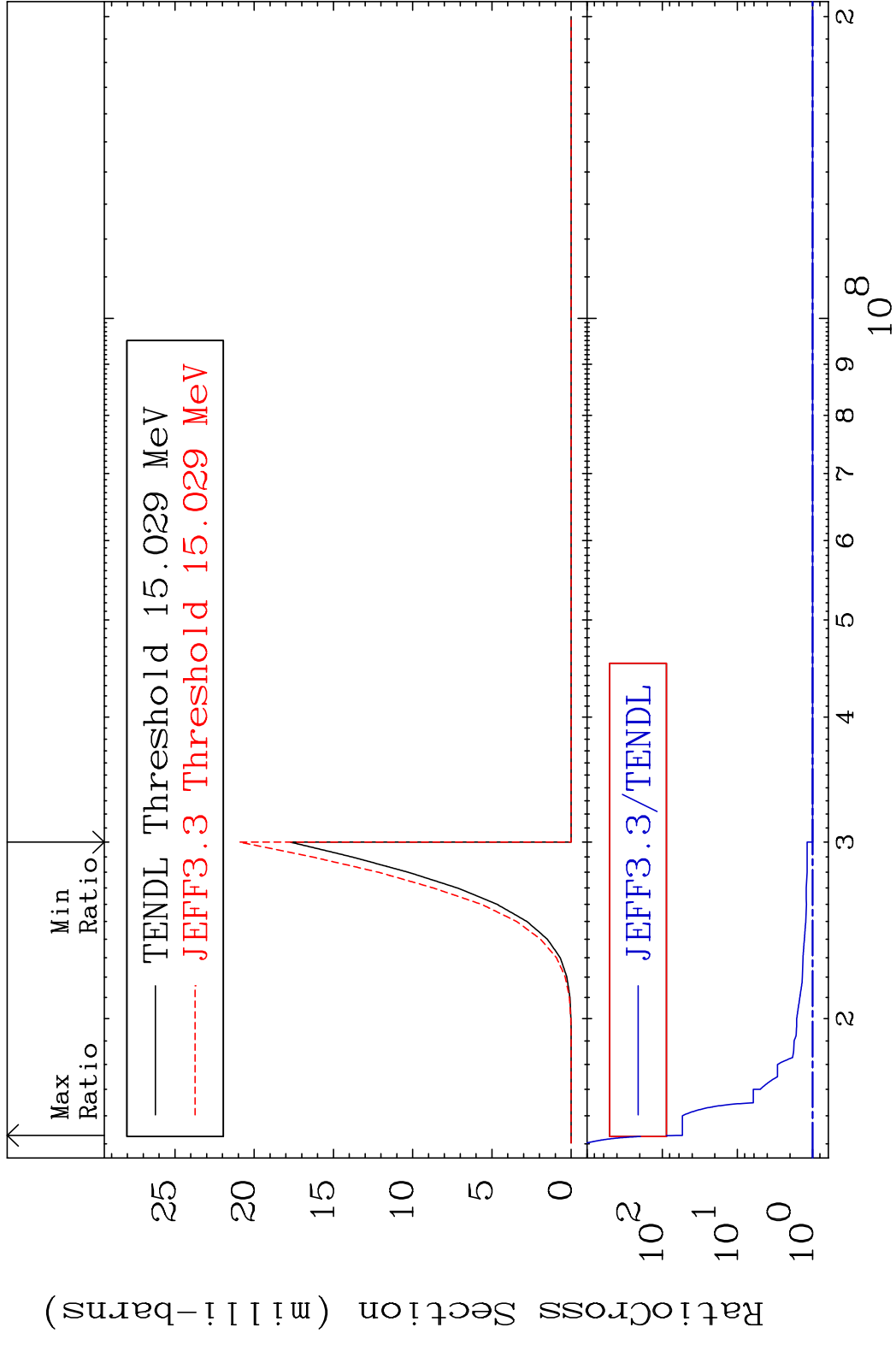


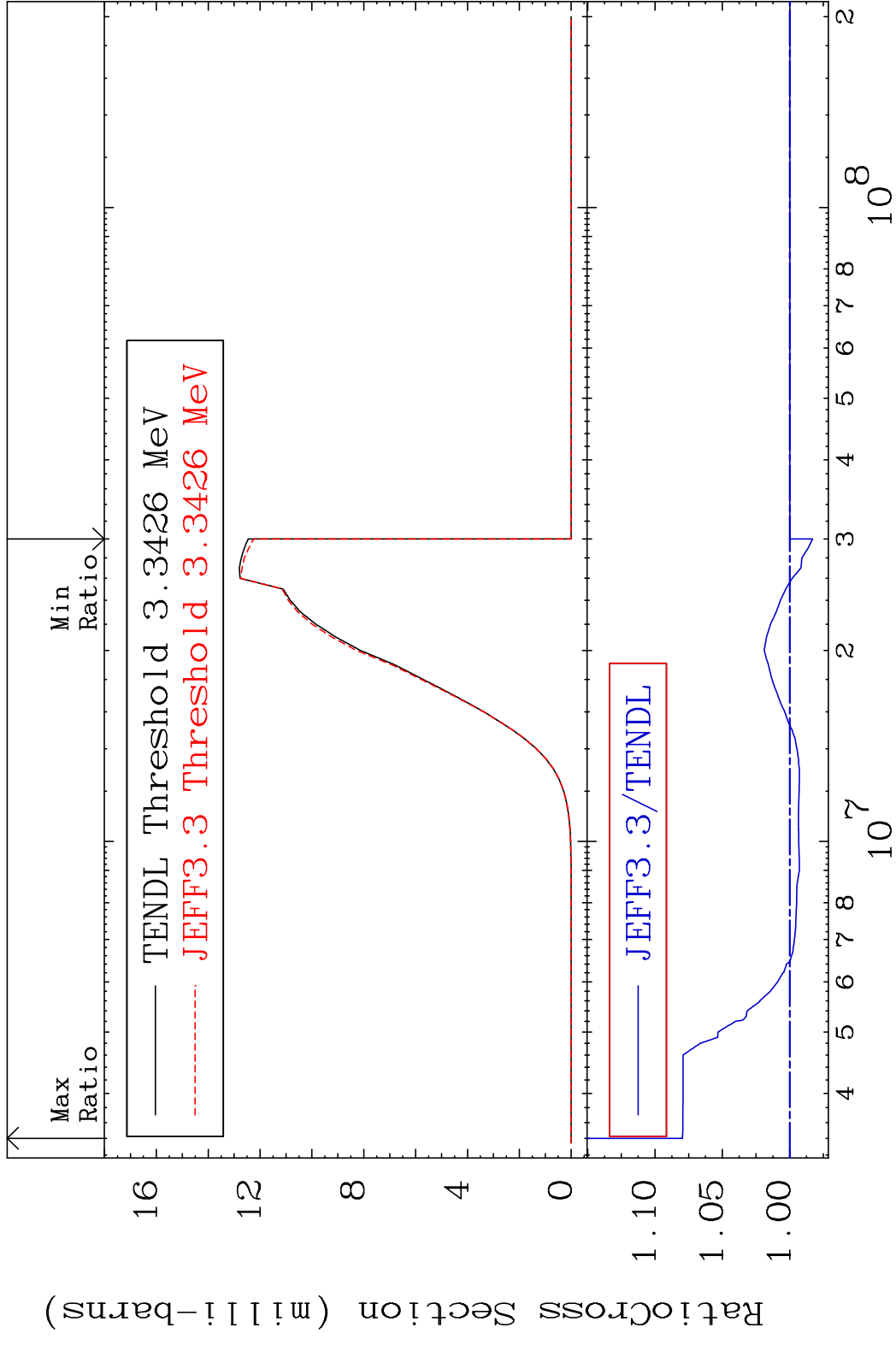


MAT 5722 (n, n') He-3:55-Cs-134m3 57-La-137  
 Radionuclide Production Cross Section 180.0 dth 435.0 %

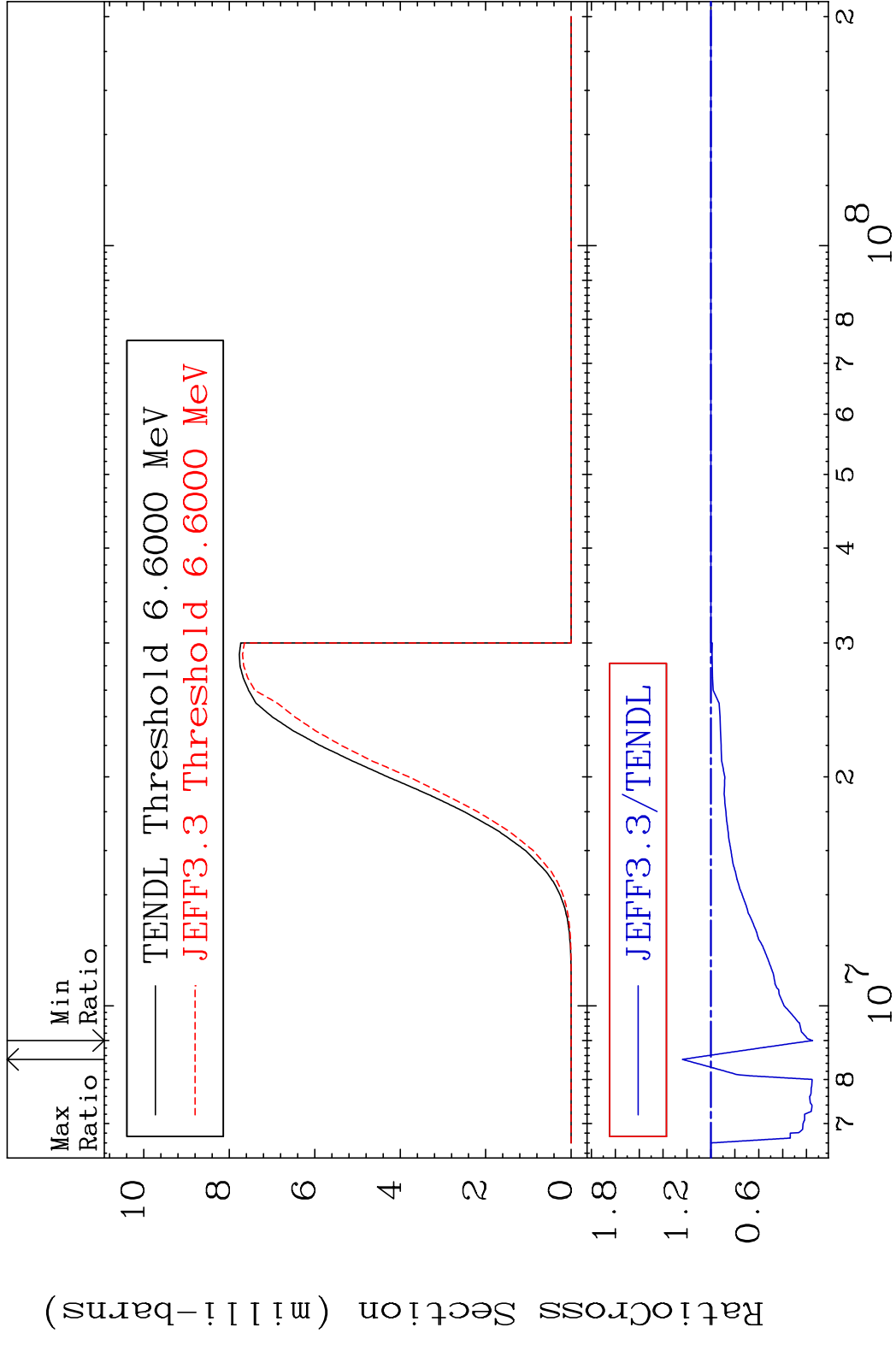


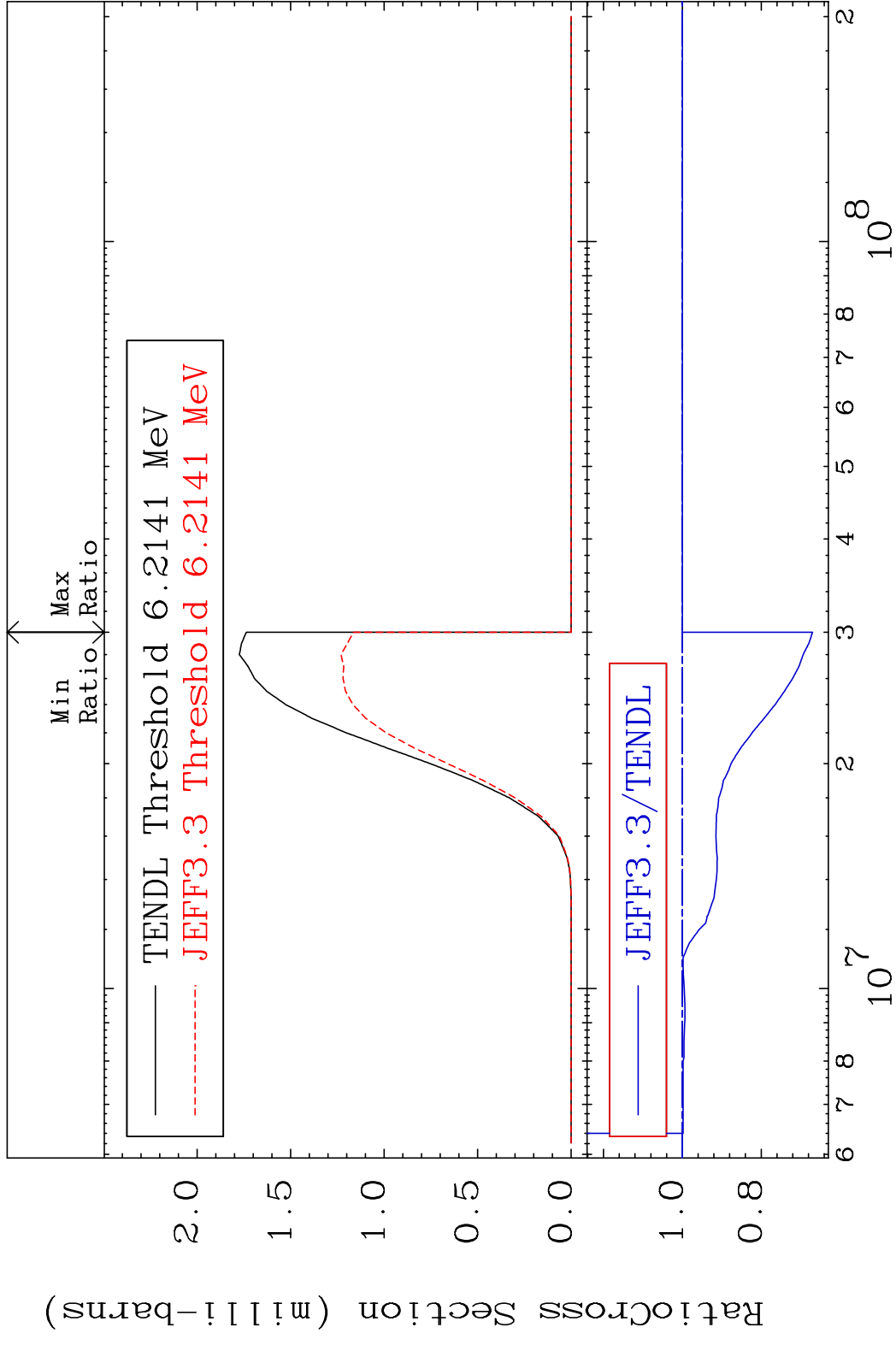




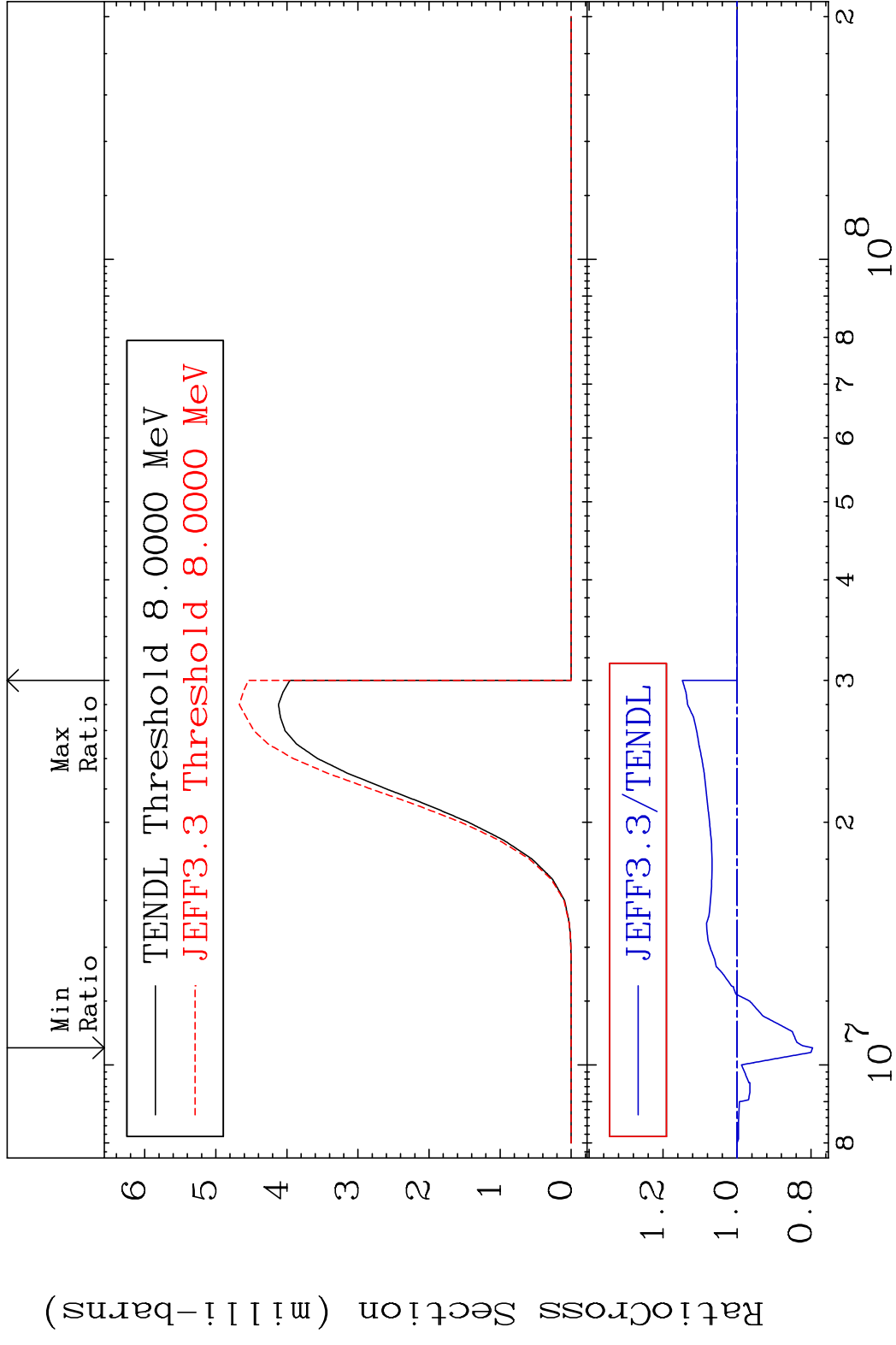








MAT 5722 (n, t): 56-Ba-135m2 57-La-137  
 Radionuclide Production Cross Section 14.78 %



MAT 5722 (n,2p):55-Cs-136g 57-La-137  
 Radionuclide Production Cross Section 38.661 d/o 123.2 %

