

Program Complot  
(Version 2021-1)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550

U.S.A.

Tele: 925-443-1911

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

Press Mouse Button to Start

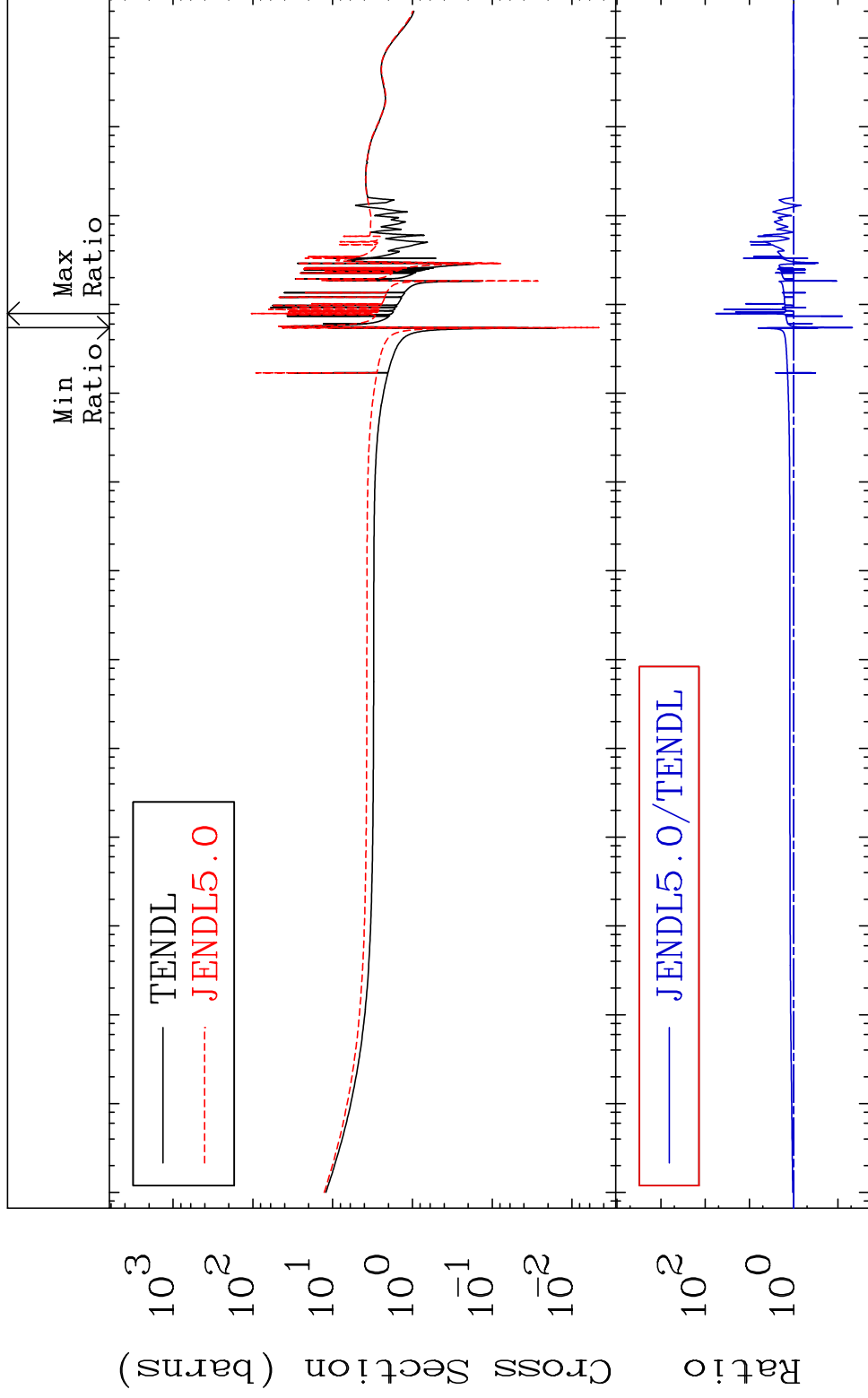
MAT 2237

Total

22-Ti-50

Cross Section

-95.27 To 5710. %



1

Incident Energy (eV)

22-Ti-50

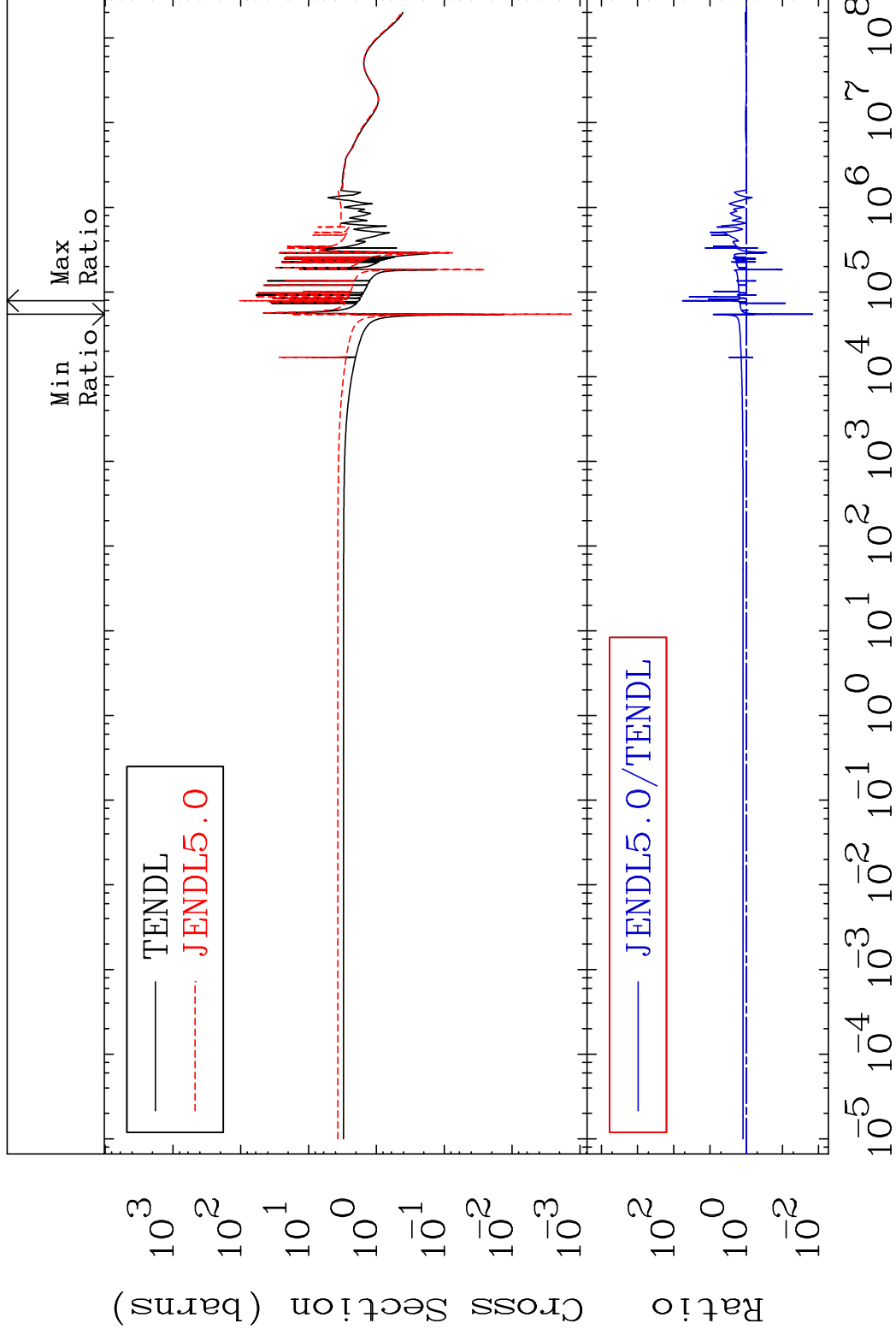
MAT 2237

Elastic

22-Ti-50

Cross Section

-98.53 To 5686. %



2

Incident Energy (eV)

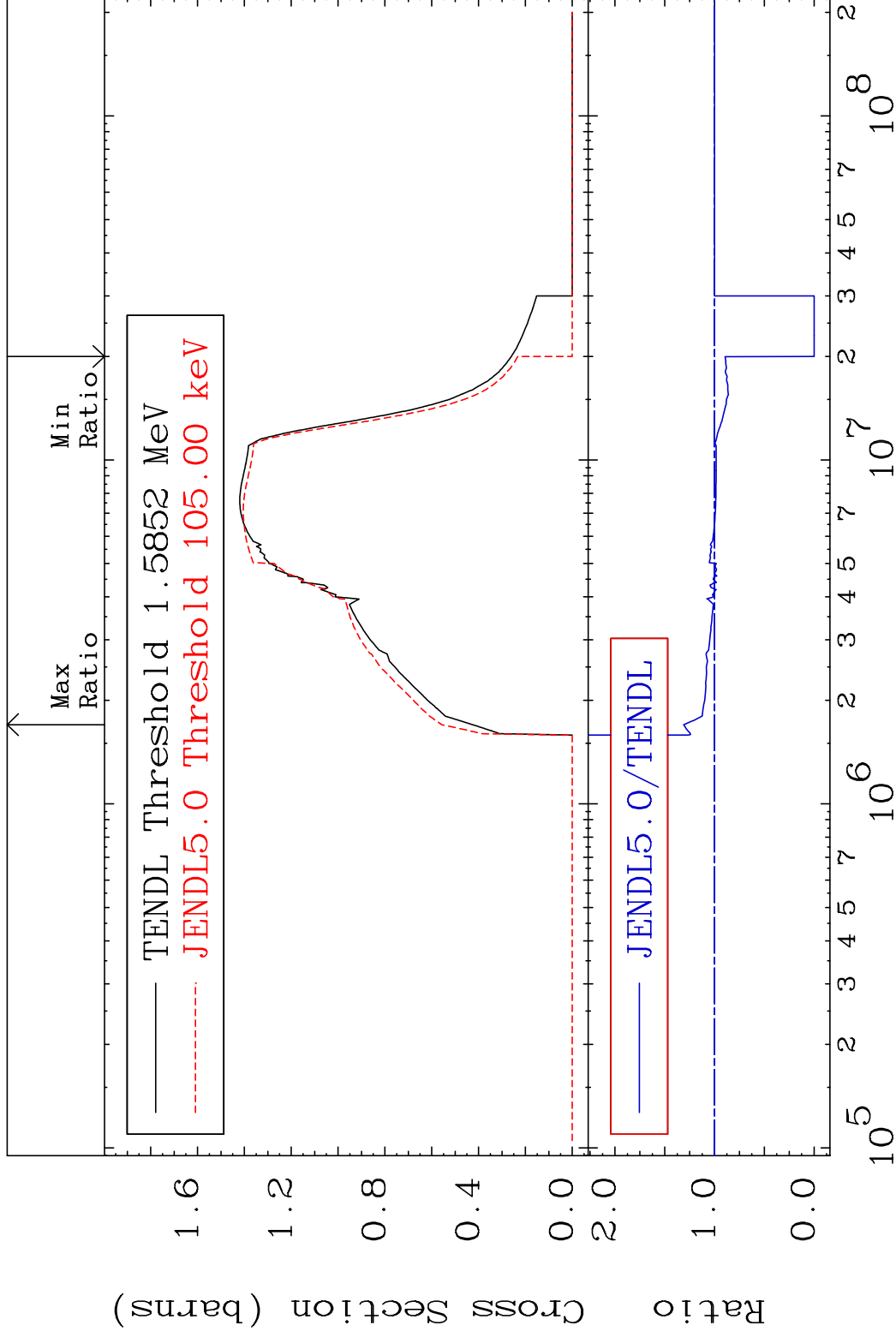
22-Ti-50

MAT 2237

Inelastic

22-Ti-50

Cross Section -100.0 To 31.02 %



3 Incident Energy (eV)

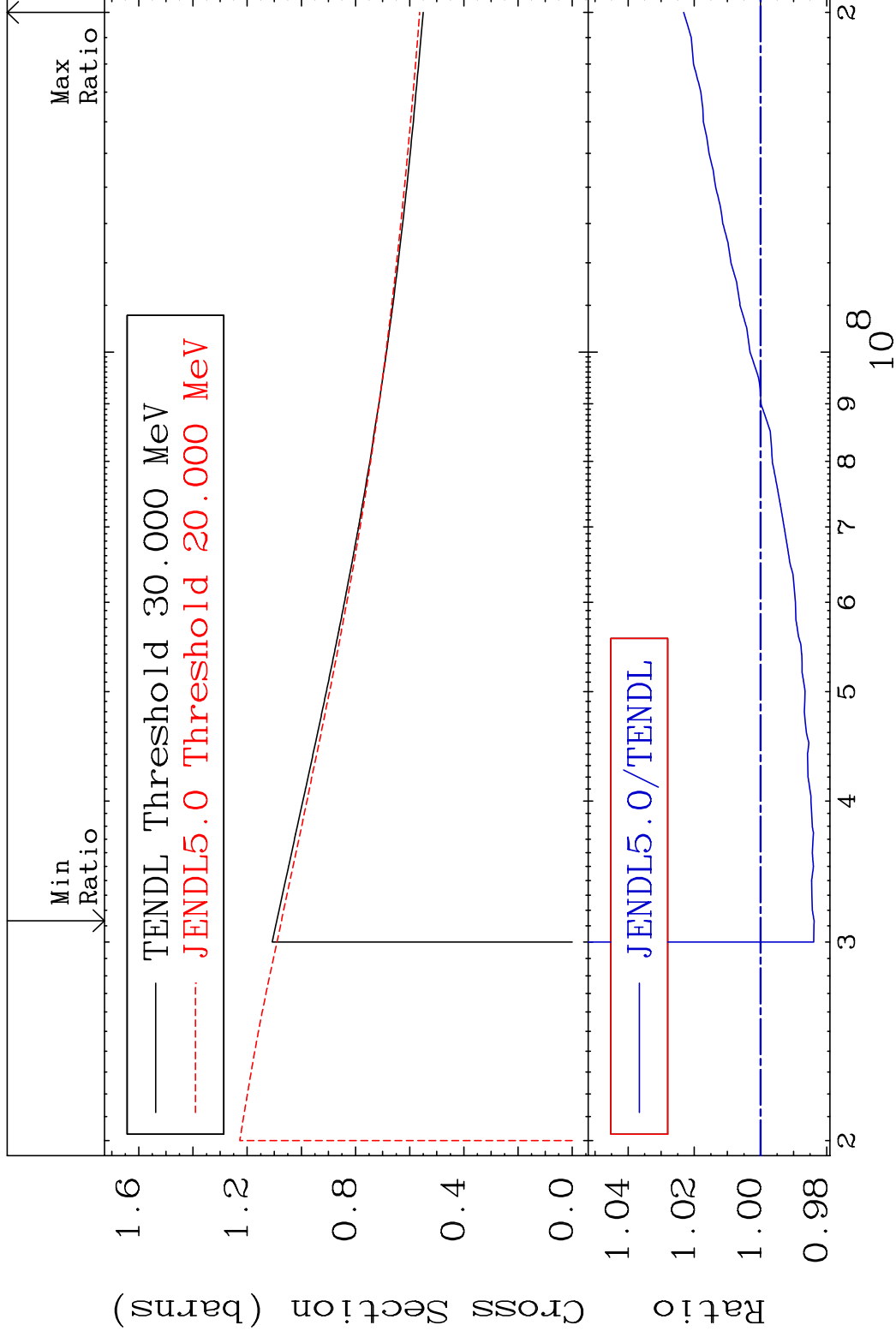
22-Ti-50

MAT 2237

(n, remainder)

22-Ti-50

Cross Section -1.620 To 2.321 %

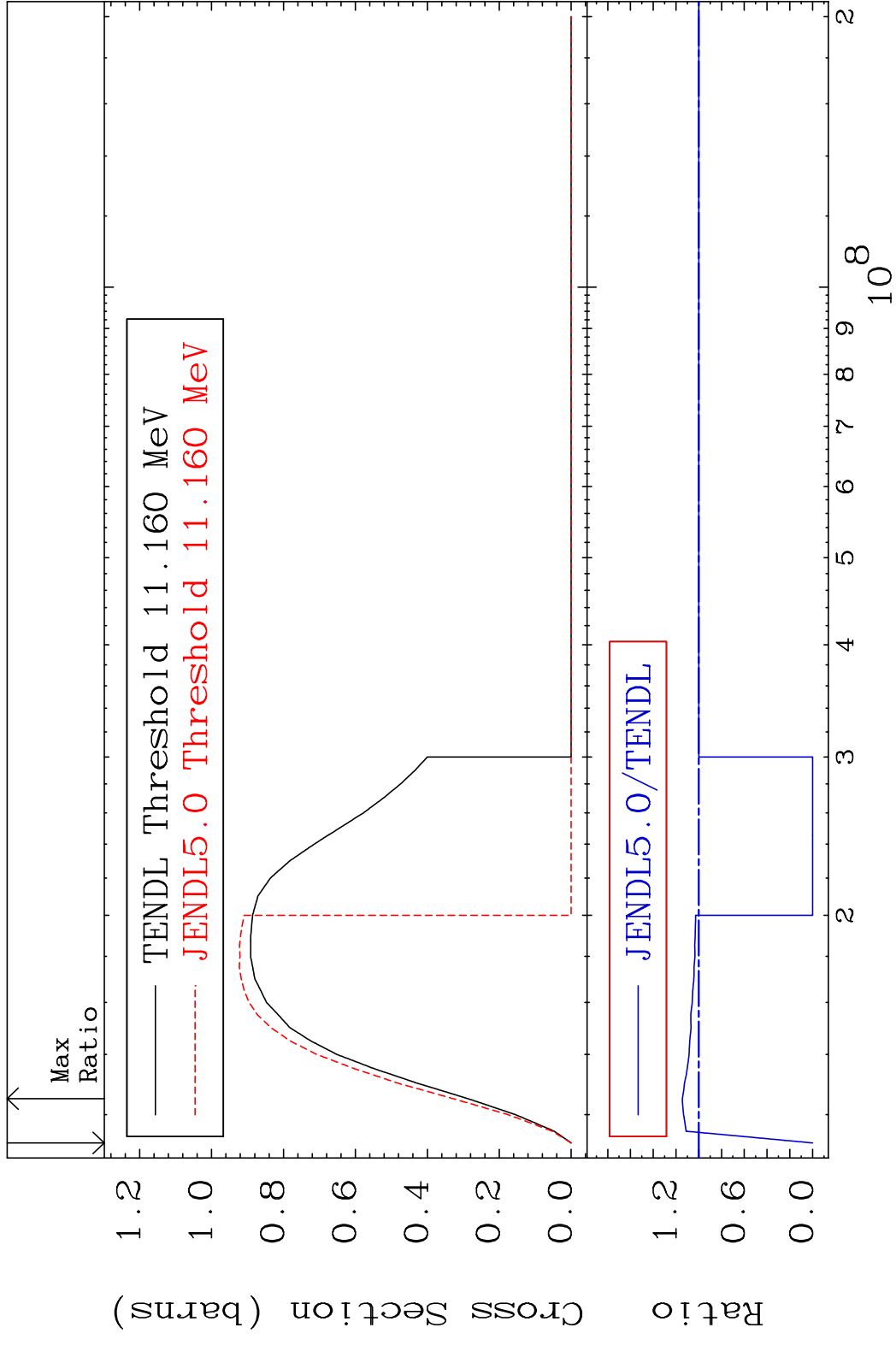


4

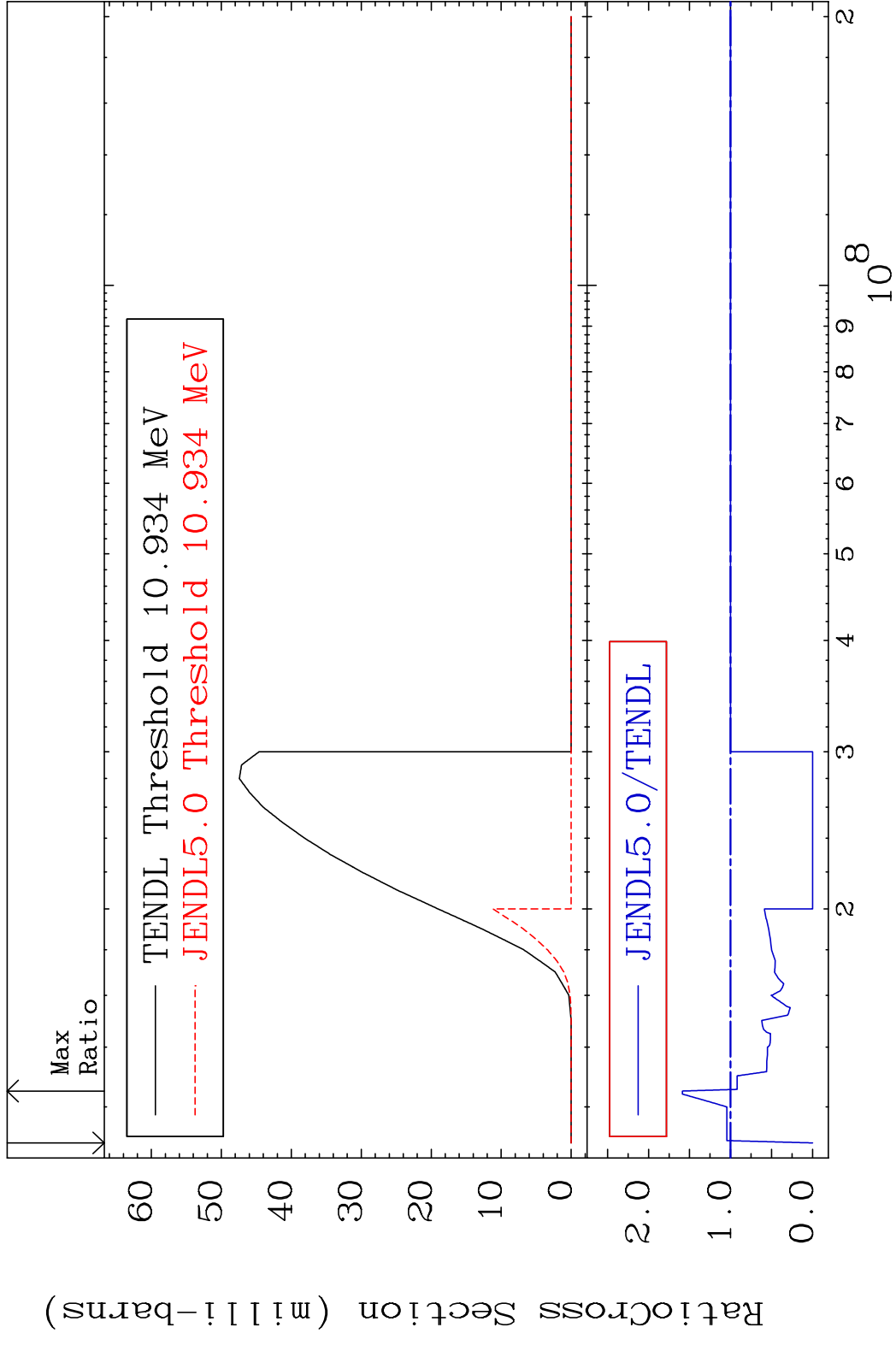
Incident Energy (eV)

22-Ti-50

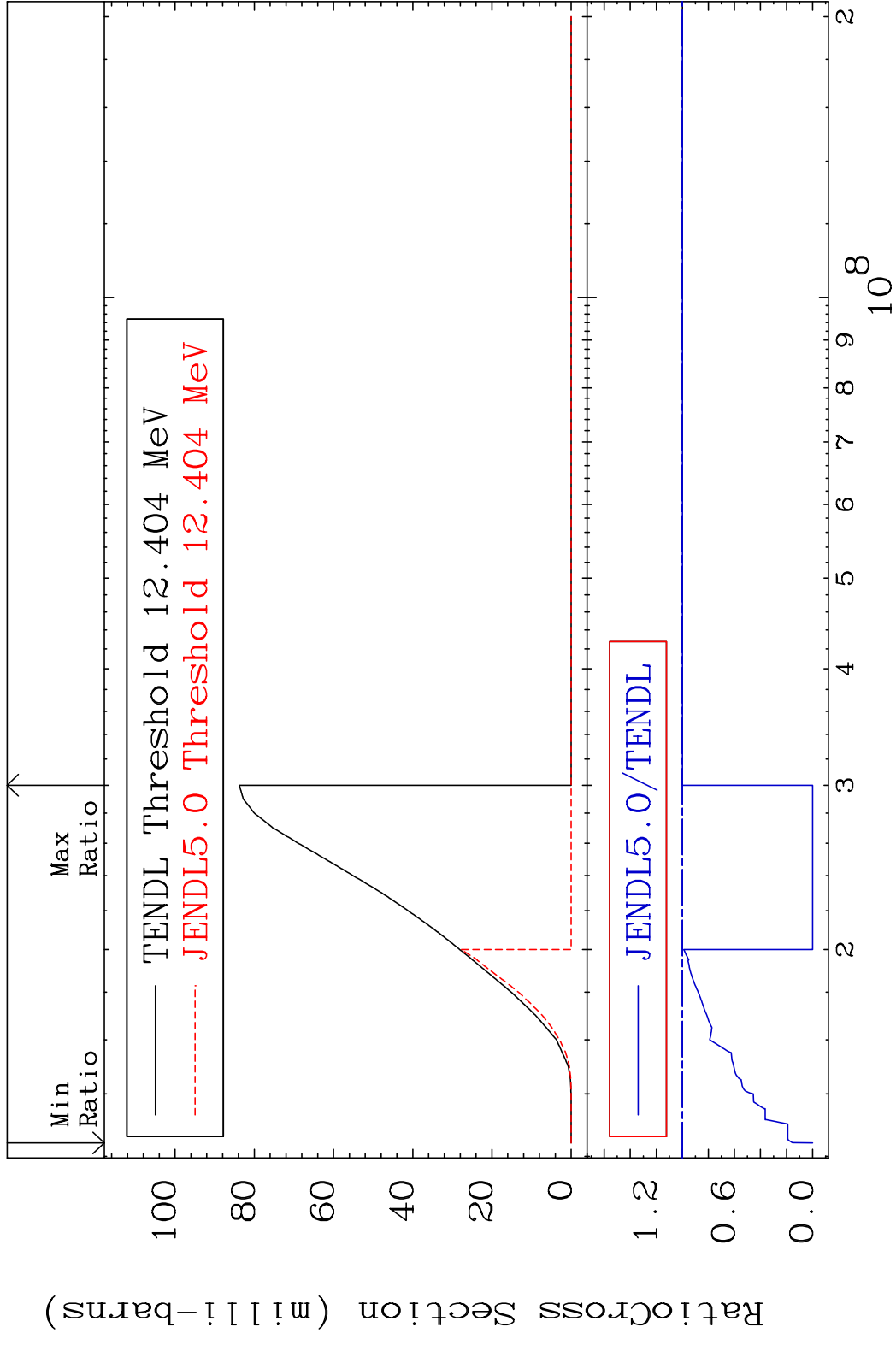
MAT 2237 (n,2n) <sup>22</sup>Ti-50  
 Cross Section -100.0 To 14.41 %



MAT 2237 (n, n')  $\alpha$  22-Ti-50  
 Cross Section -100.0 To 58.78 %

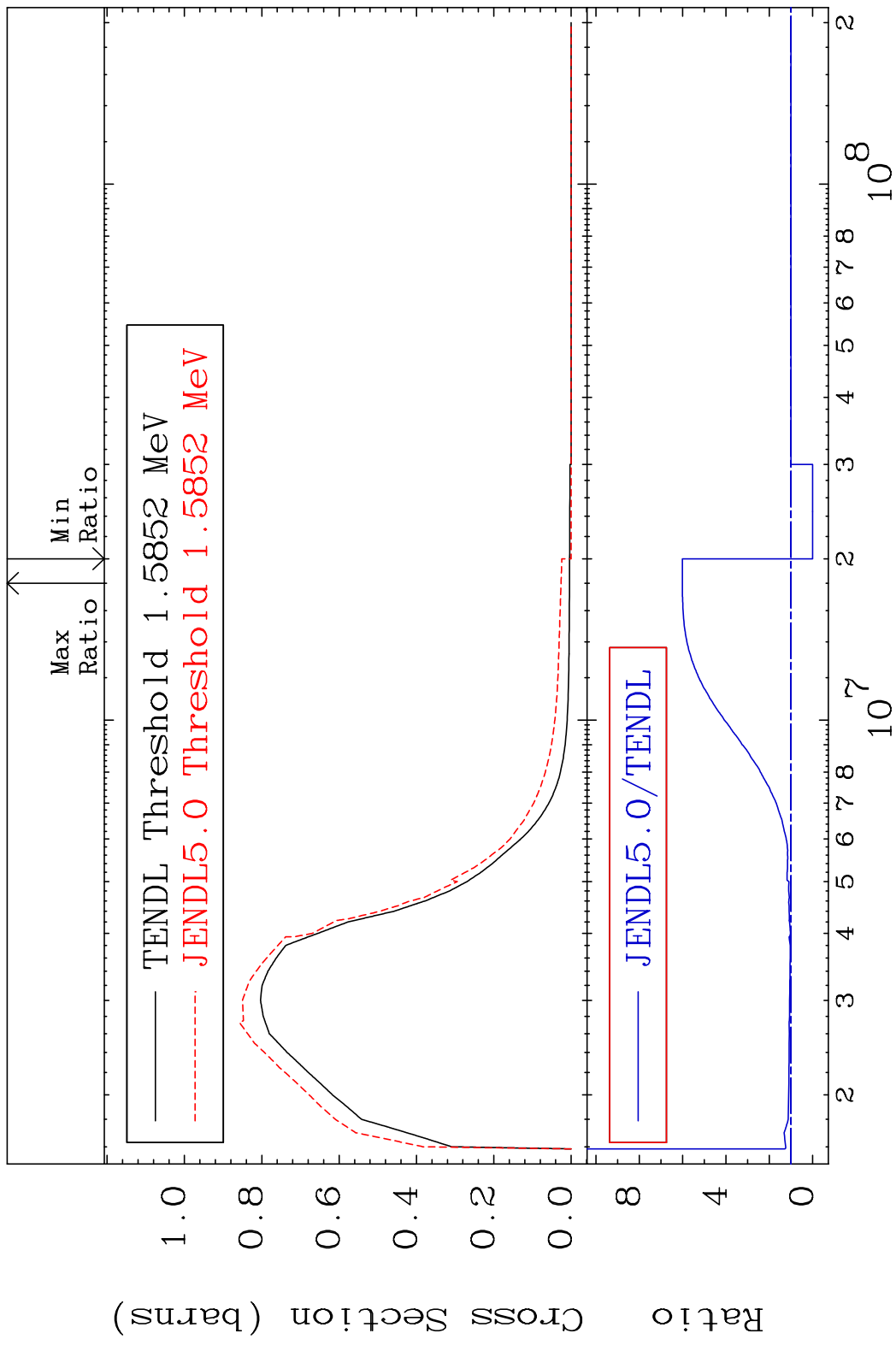


MAT 2237 (n, n') p 22-Ti-50  
 Cross Section -100.0 To 0.000 %

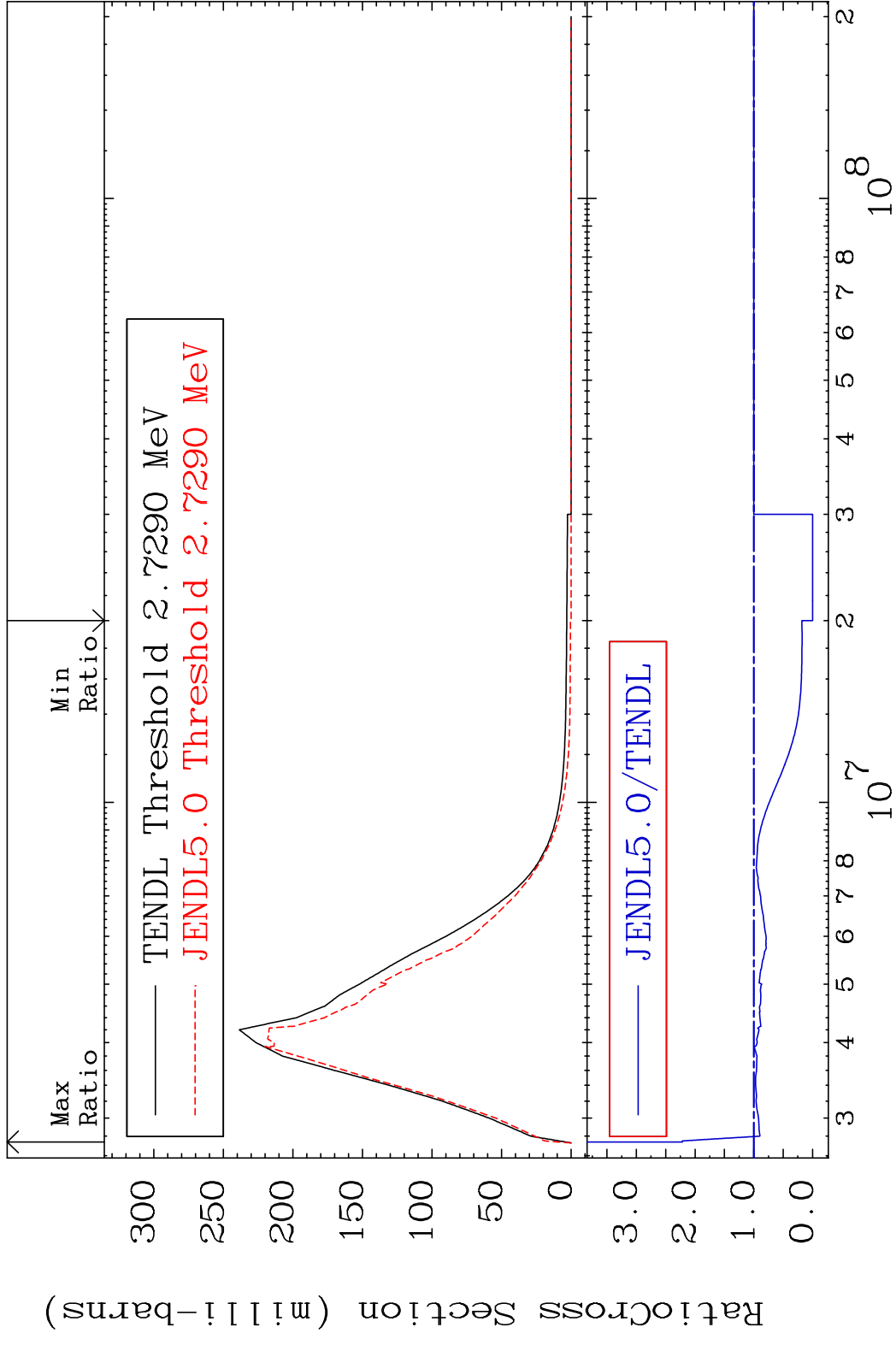




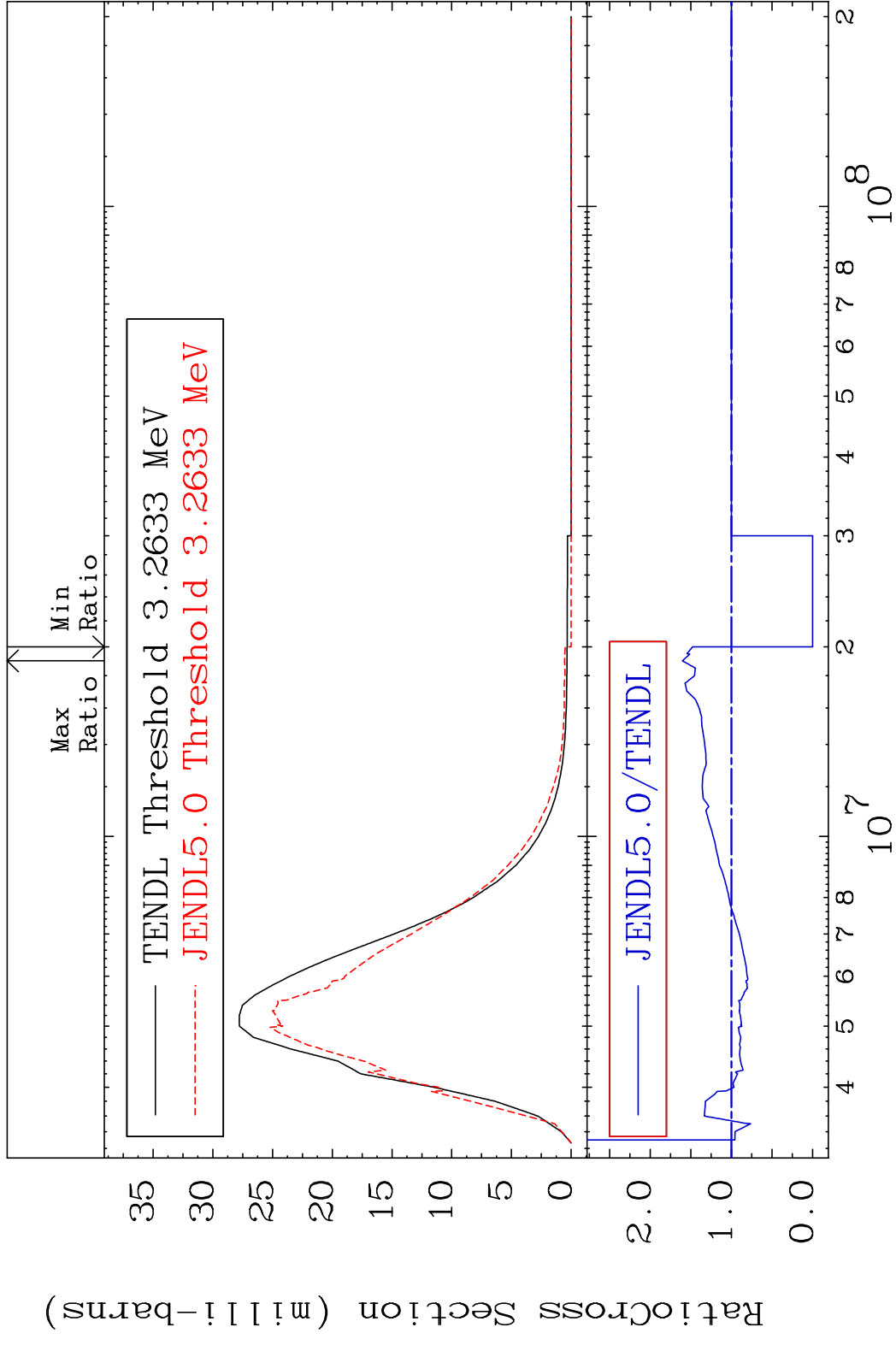
MAT 2237 MT= 51 (n, n') Level 22-Ti-50  
 Cross Section -100.0 To 501.1 %



MAT 2237 MT= 52 (n, n') Level 22-Ti-50  
 Cross Section -100.0 To 121.6 %

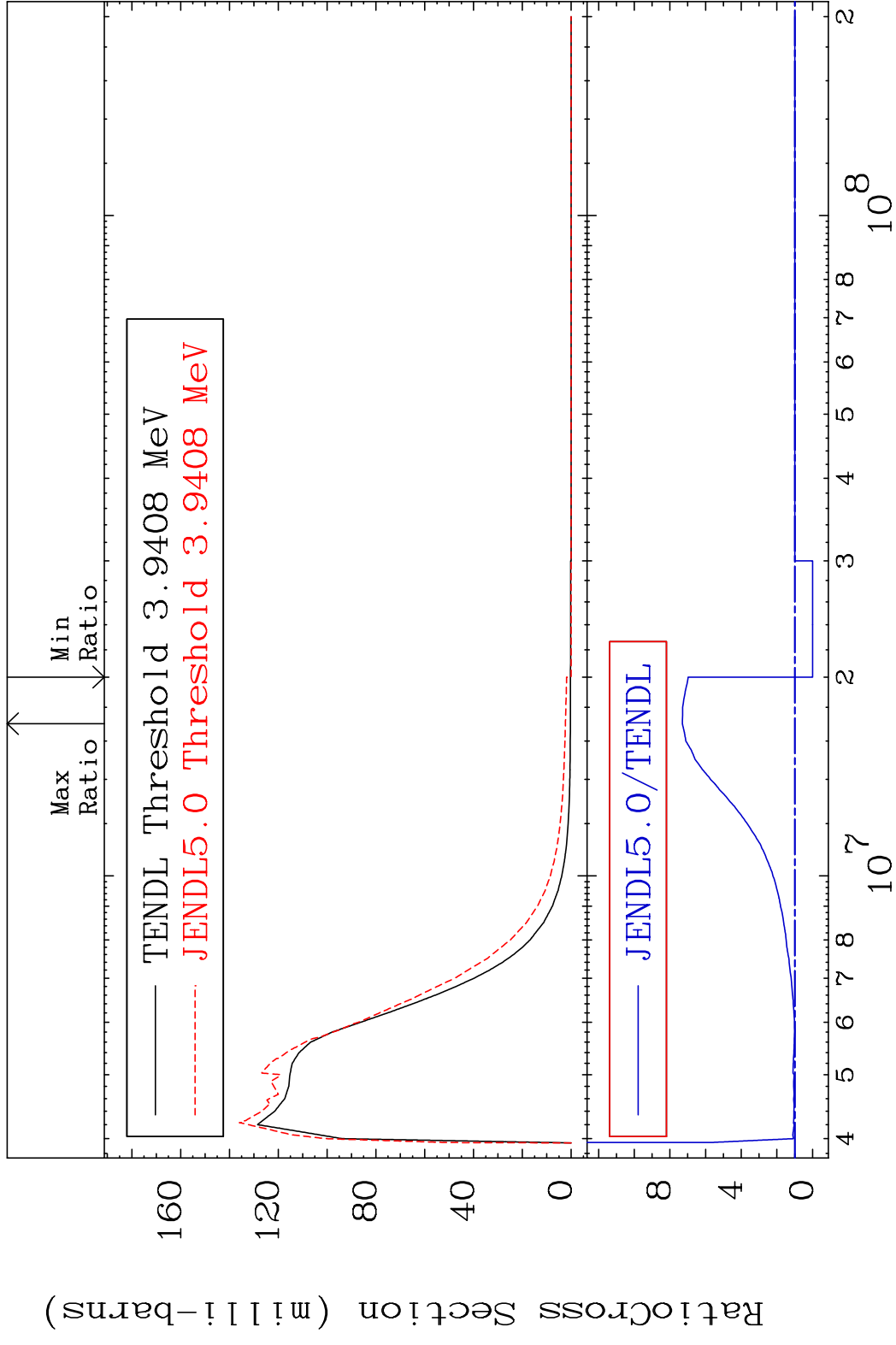


MAT 2237 MT= 53 (n, n') Level 22-Ti-50  
 Cross Section -100.0 To 60.40 %



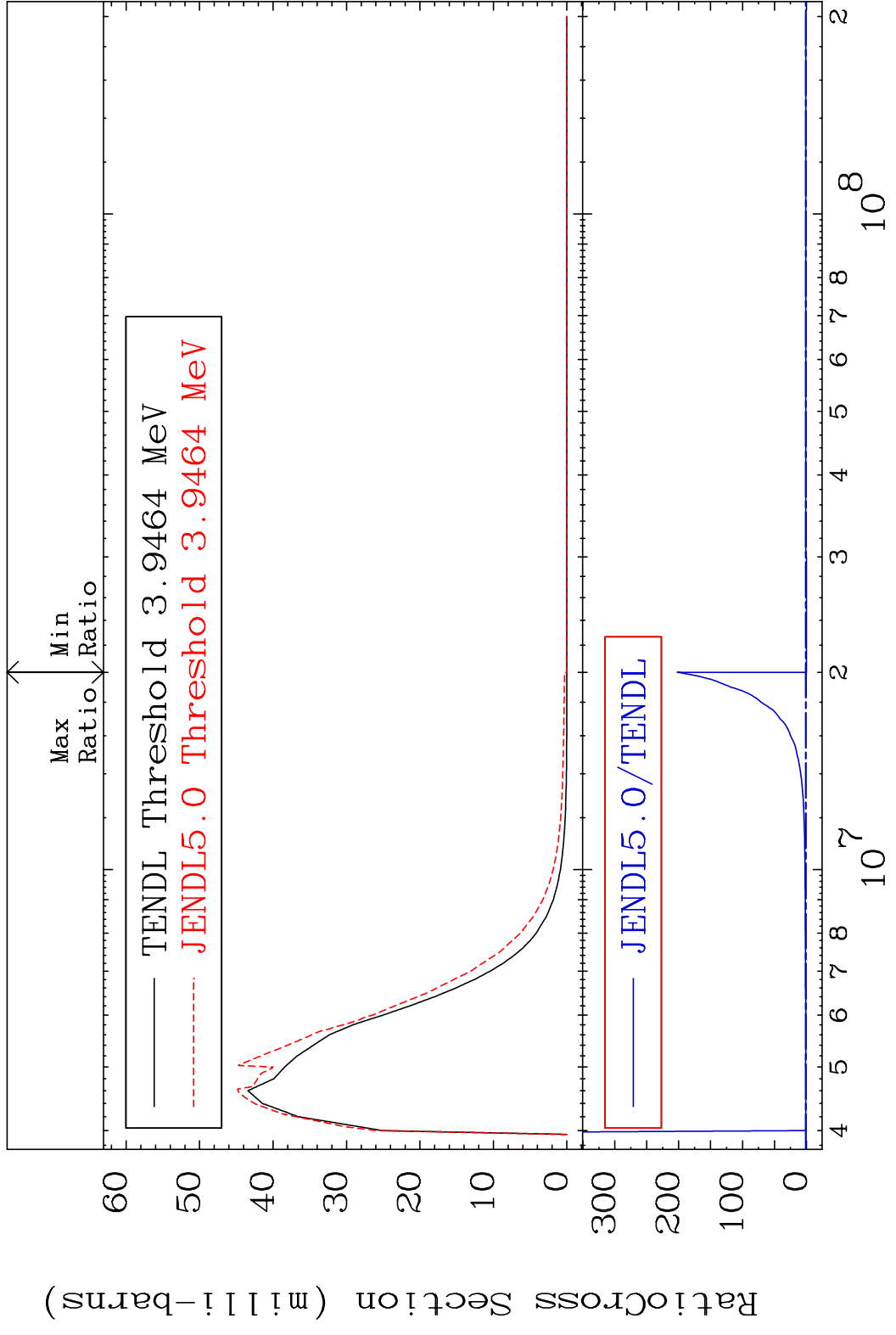
10 Incident Energy (eV) 22-Ti-50

MAT 2237 MT= 54 (n,n') Level 22-Ti-50  
 Cross Section -100.0 To 630.2 %

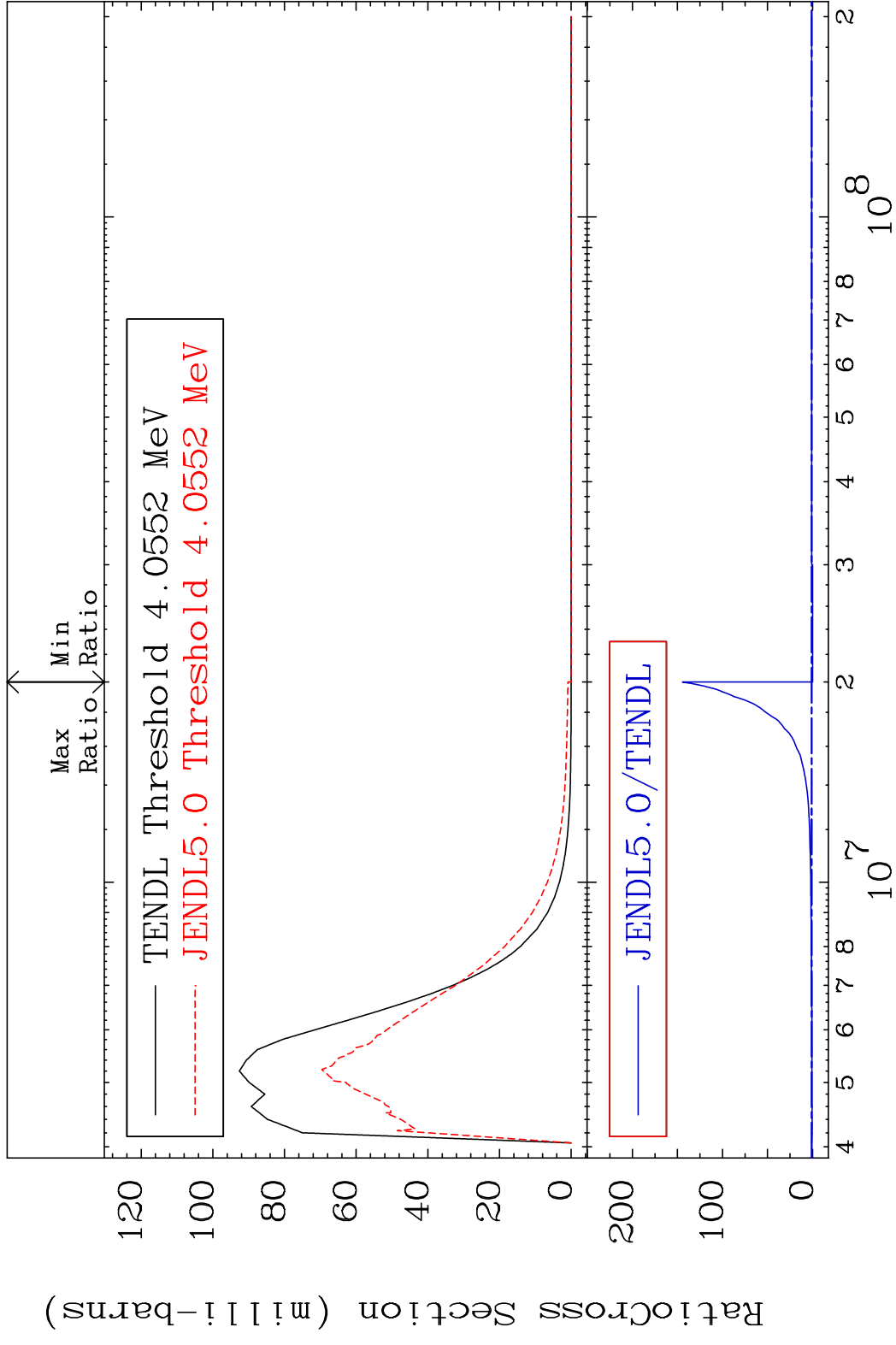


11 Incident Energy (eV) 22-Ti-50

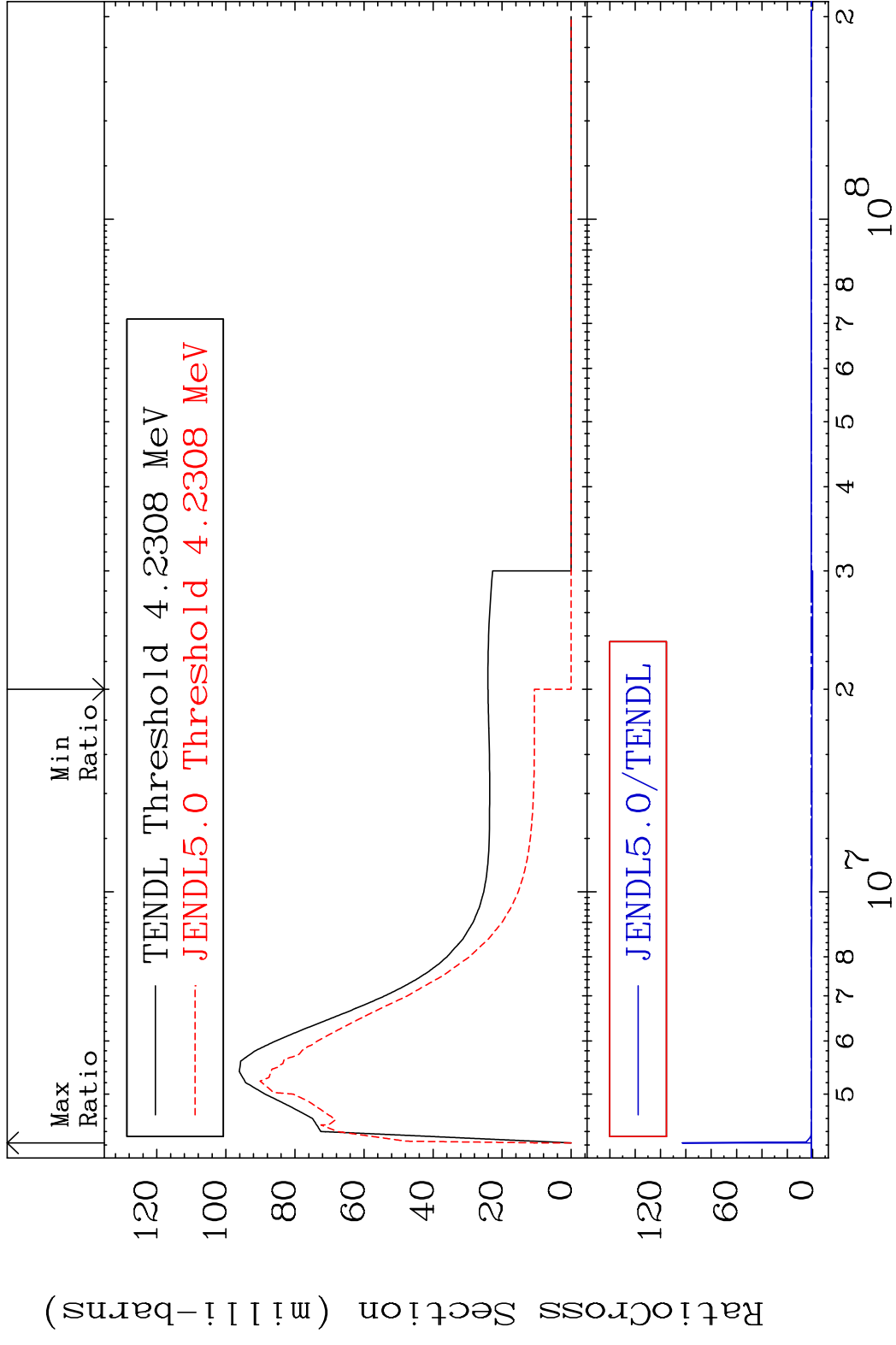
MAT 2237 MT= 55 (n, n') Level 22-Ti-50  
 Cross Section -100.0 To 9999. %



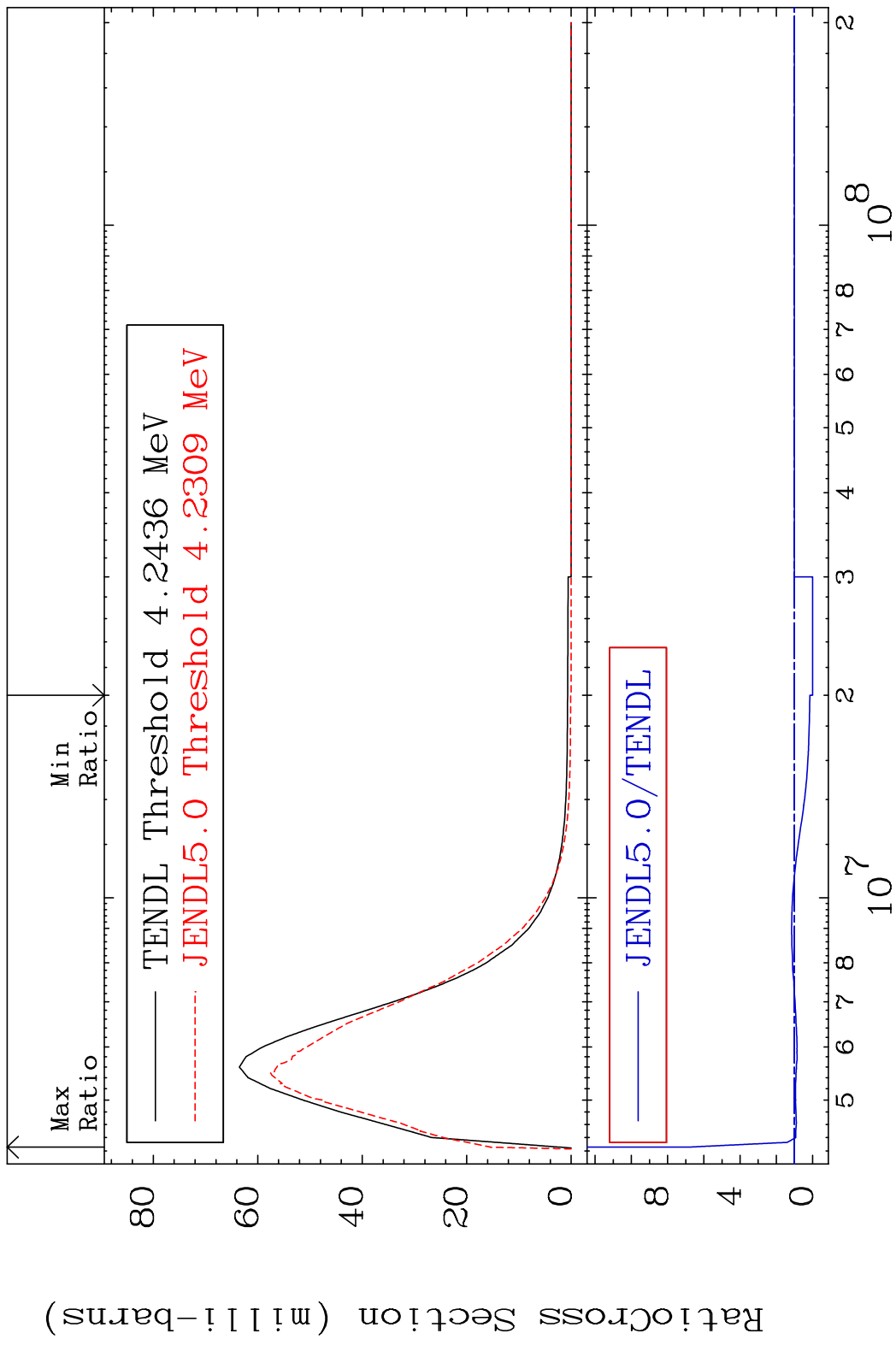
MAT 2237 MT= 56 (n,n') Level 22-Ti-50  
 Cross Section -100.0 To 9999. %



MAT 2237 MT= 57 (n,n') Level 22-Ti-50  
 Cross Section -100.0 To 9999. %

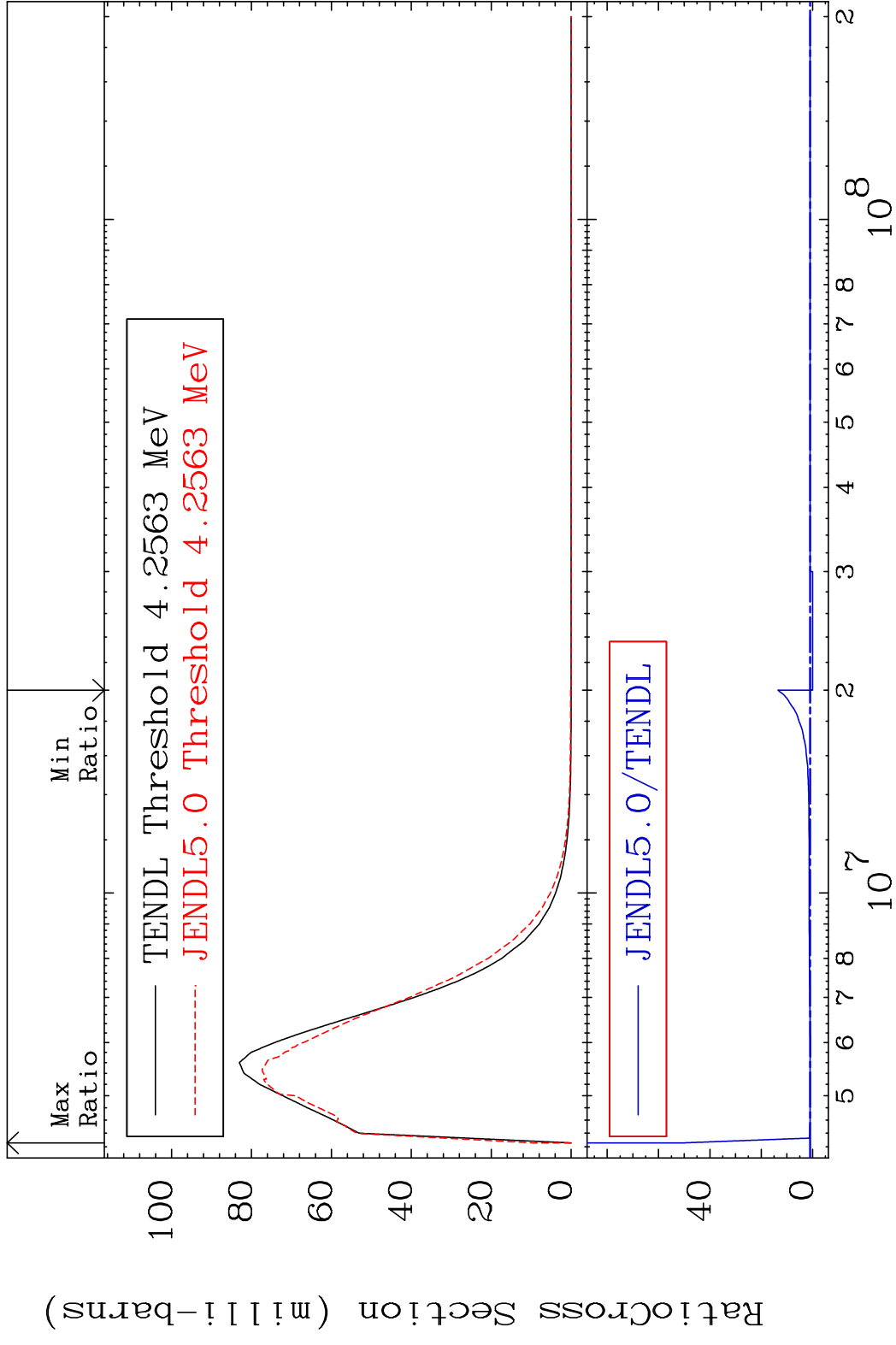


MAT 2237 MT= 58 (n,n') Level 22-Ti-50  
 Cross Section -100.0 To 618.7 %



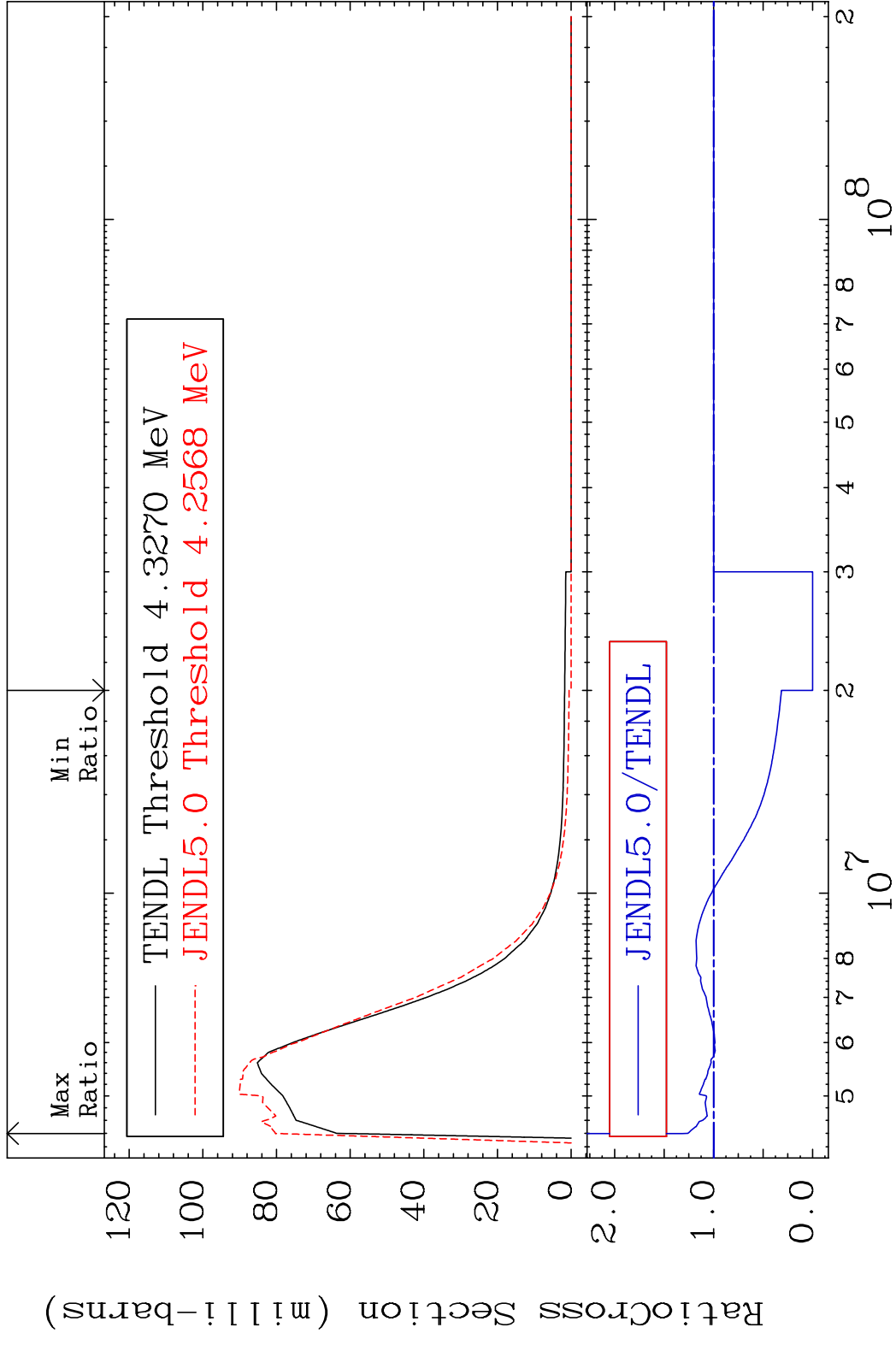


MAT 2237 MT= 59 (n, n') Level 22-Ti-50  
 Cross Section -100.0 To 4972. %

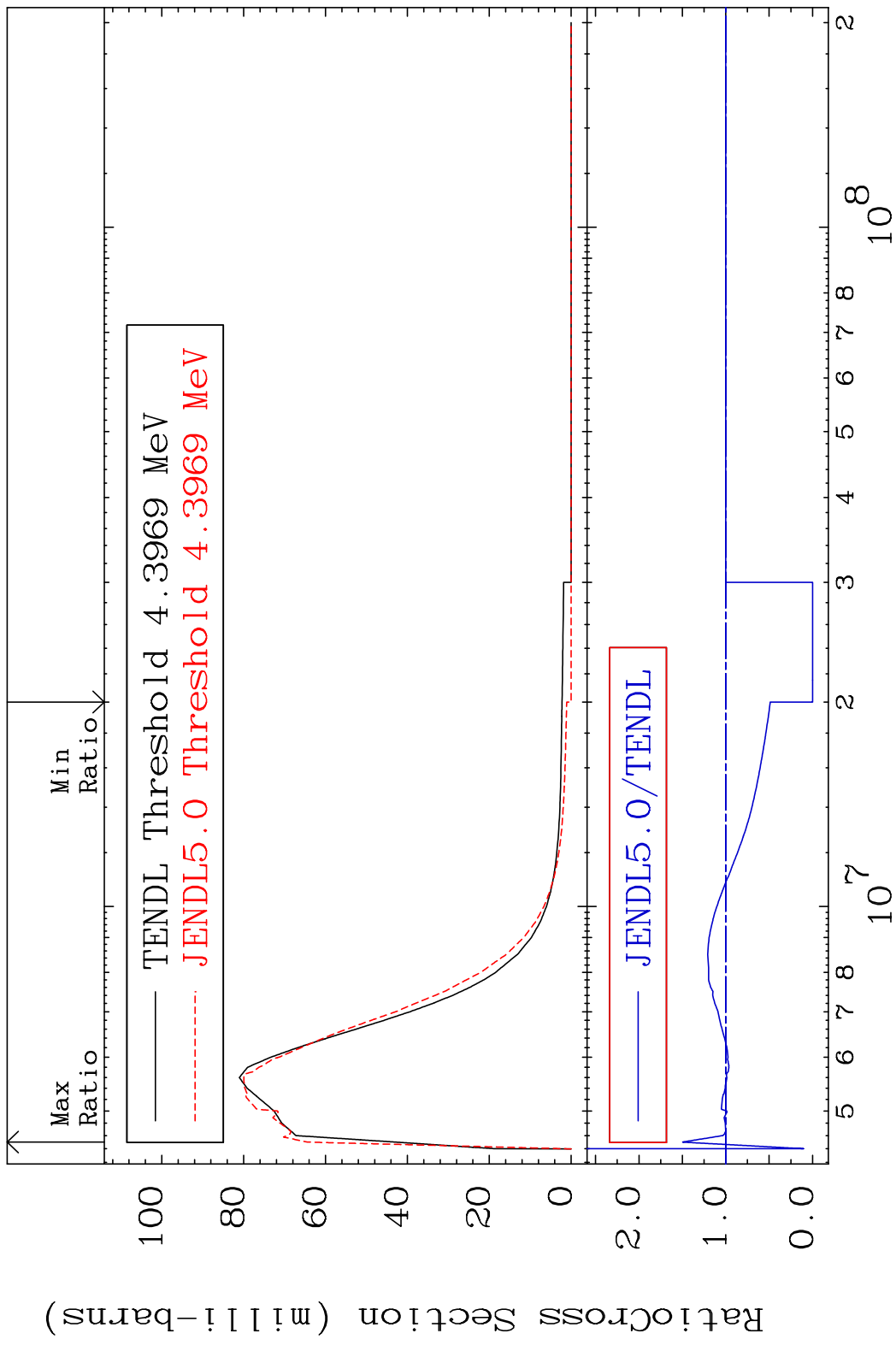


16 Incident Energy (eV) 22-Ti-50

MAT 2237 MT= 60 (n, n') Level 22-Ti-50  
 Cross Section -100.0 To 31.52 %

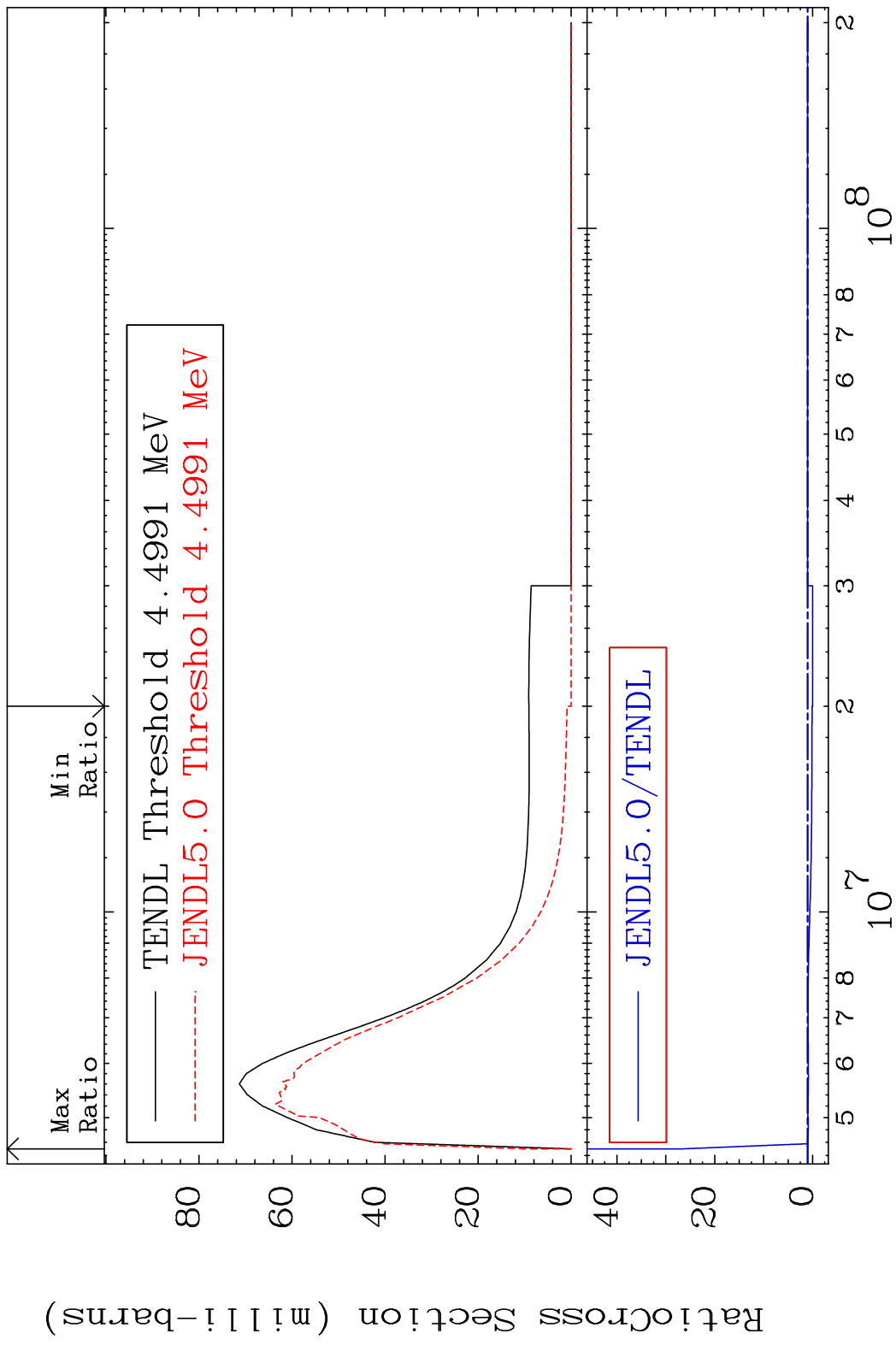


MAT 2237 MT= 61 (n, n') Level 22-Ti-50  
 Cross Section -100.0 To 50.01 %



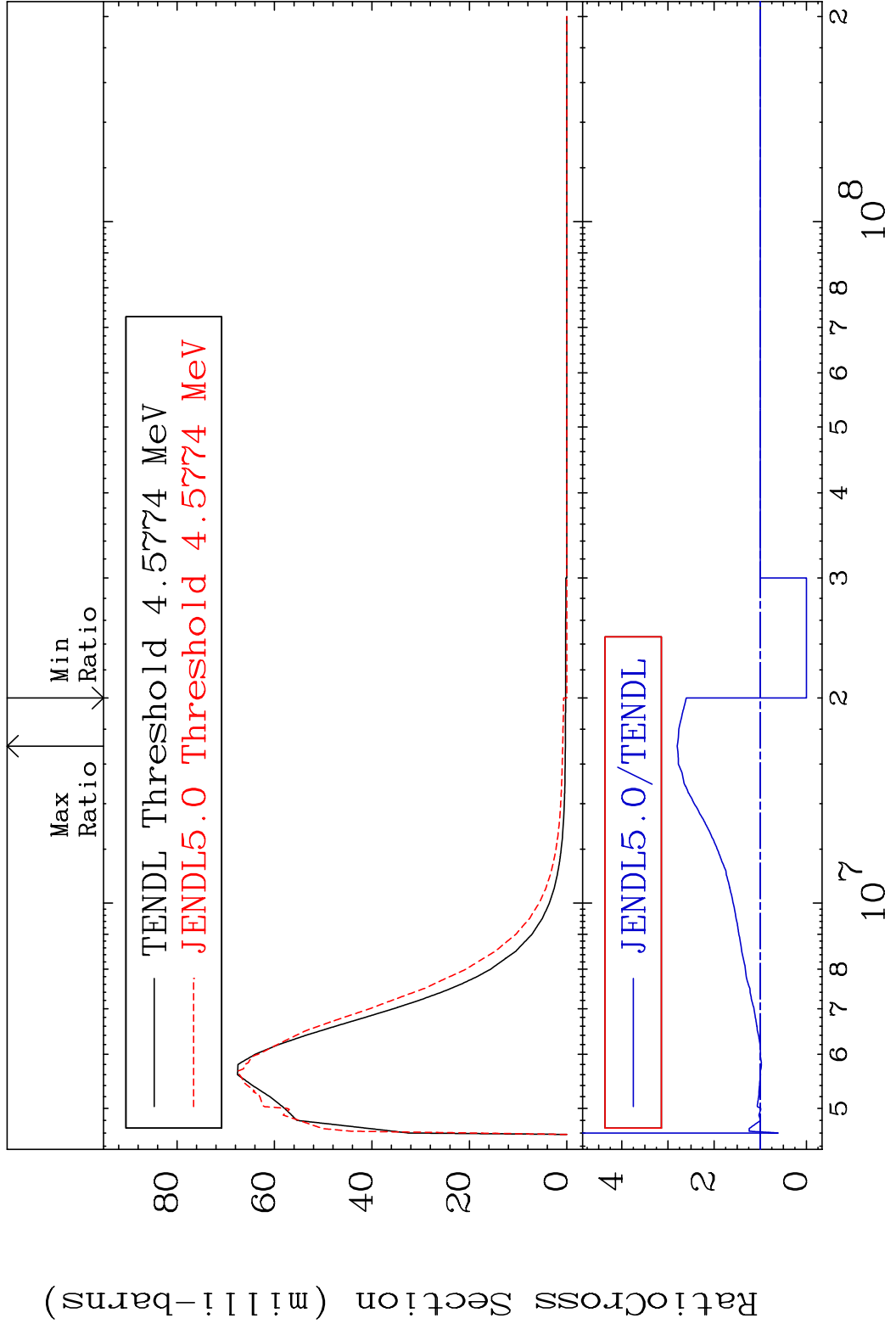
18 Incident Energy (eV) 22-Ti-50

MAT 2237 MT= 62 (n, n') Level 22-Ti-50  
 Cross Section -100.0 To 2562. %

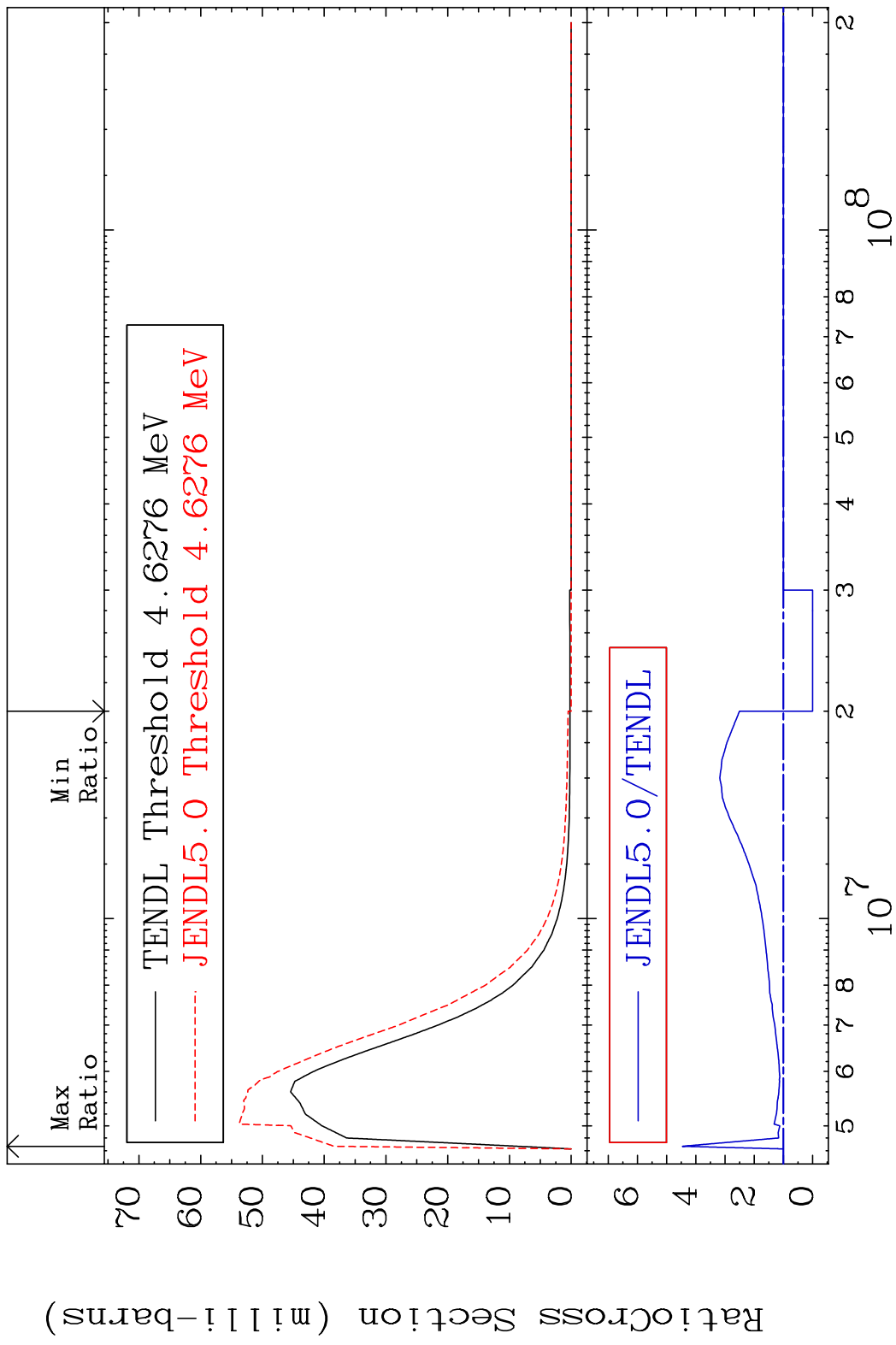


19 Incident Energy (eV) 22-Ti-50

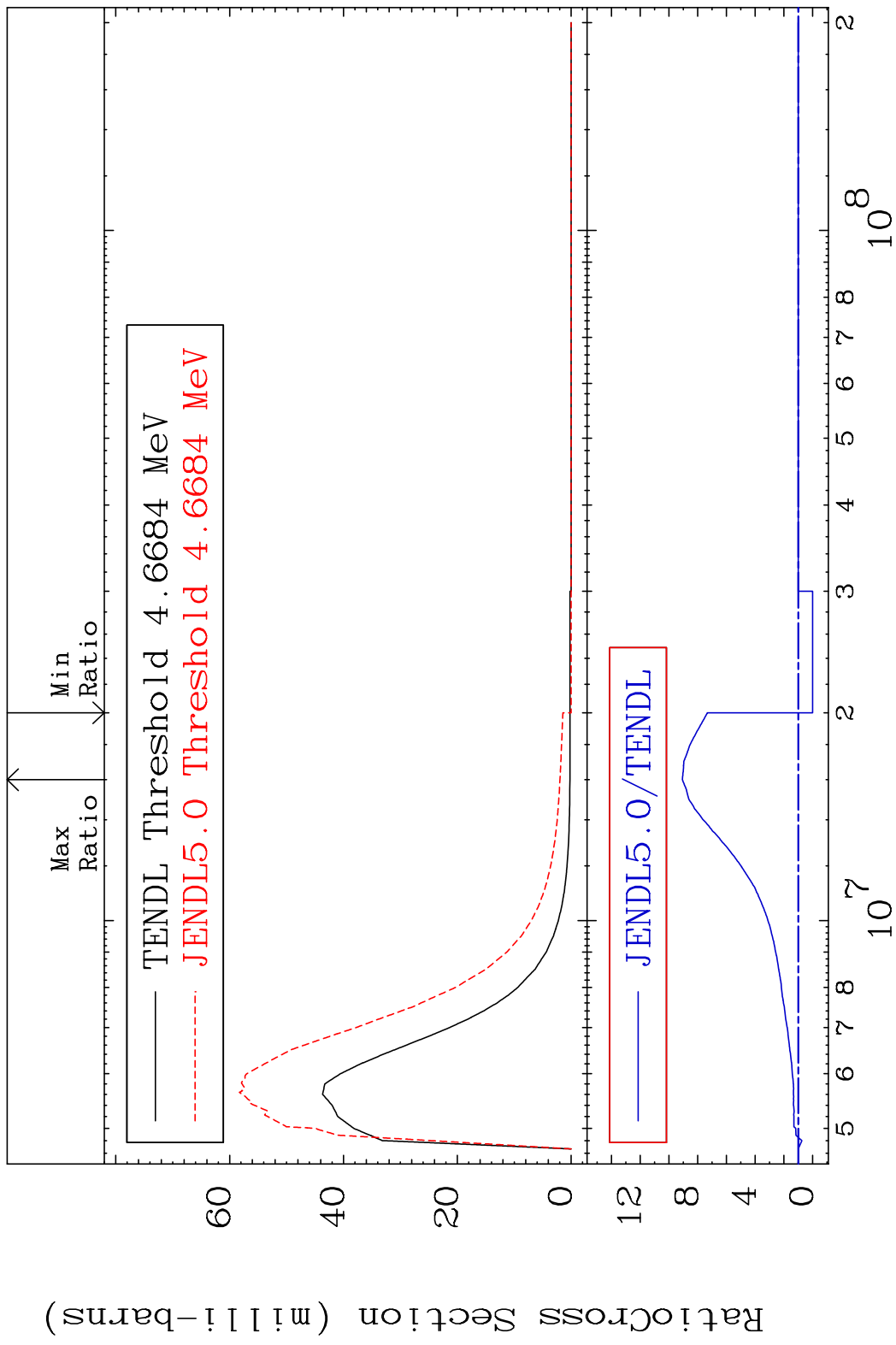
MAT 2237 MT= 63 (n, n') Level 22-Ti-50  
 Cross Section -100.0 To 179.9 %



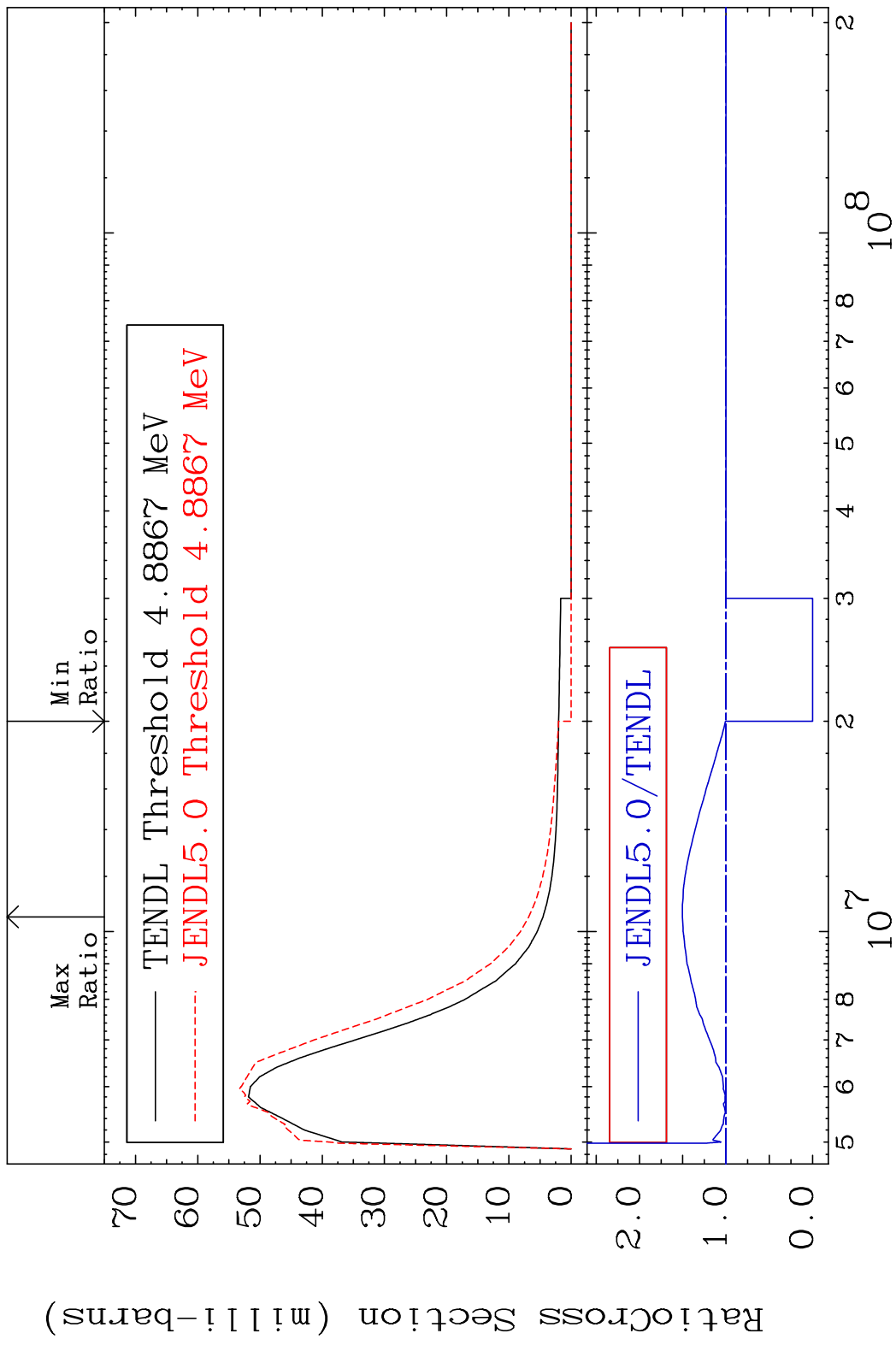
MAT 2237 MT= 64 (n,n') Level 22-Ti-50  
 Cross Section -100.0 To 346.1 %



MAT 2237 MT= 65 (n,n') Level 22-Ti-50  
 Cross Section -100.0 To 806.7 %

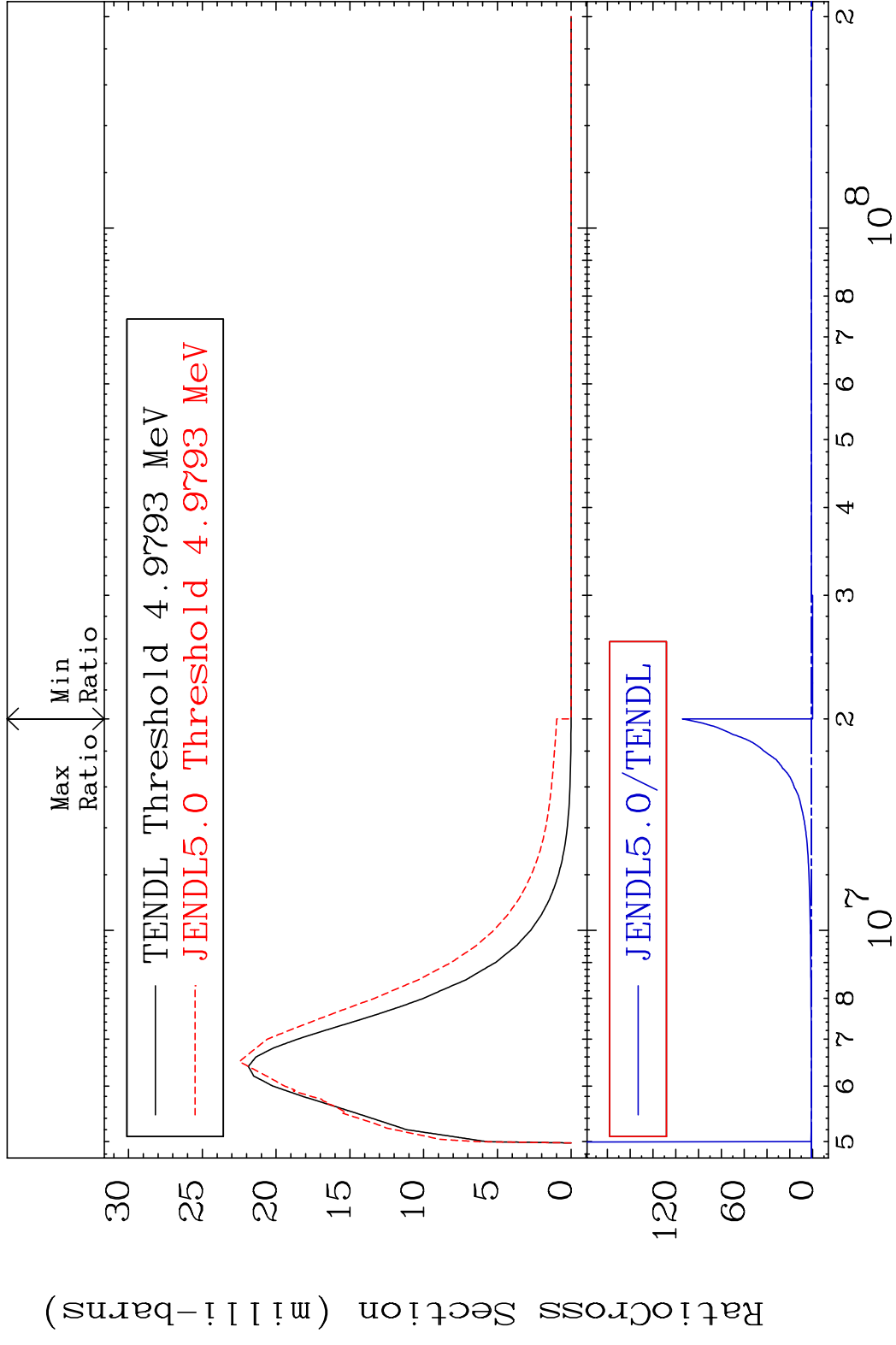


MAT 2237 MT= 66 (n, n') Level 22-Ti-50  
 Cross Section -100.0 To 50.42 %

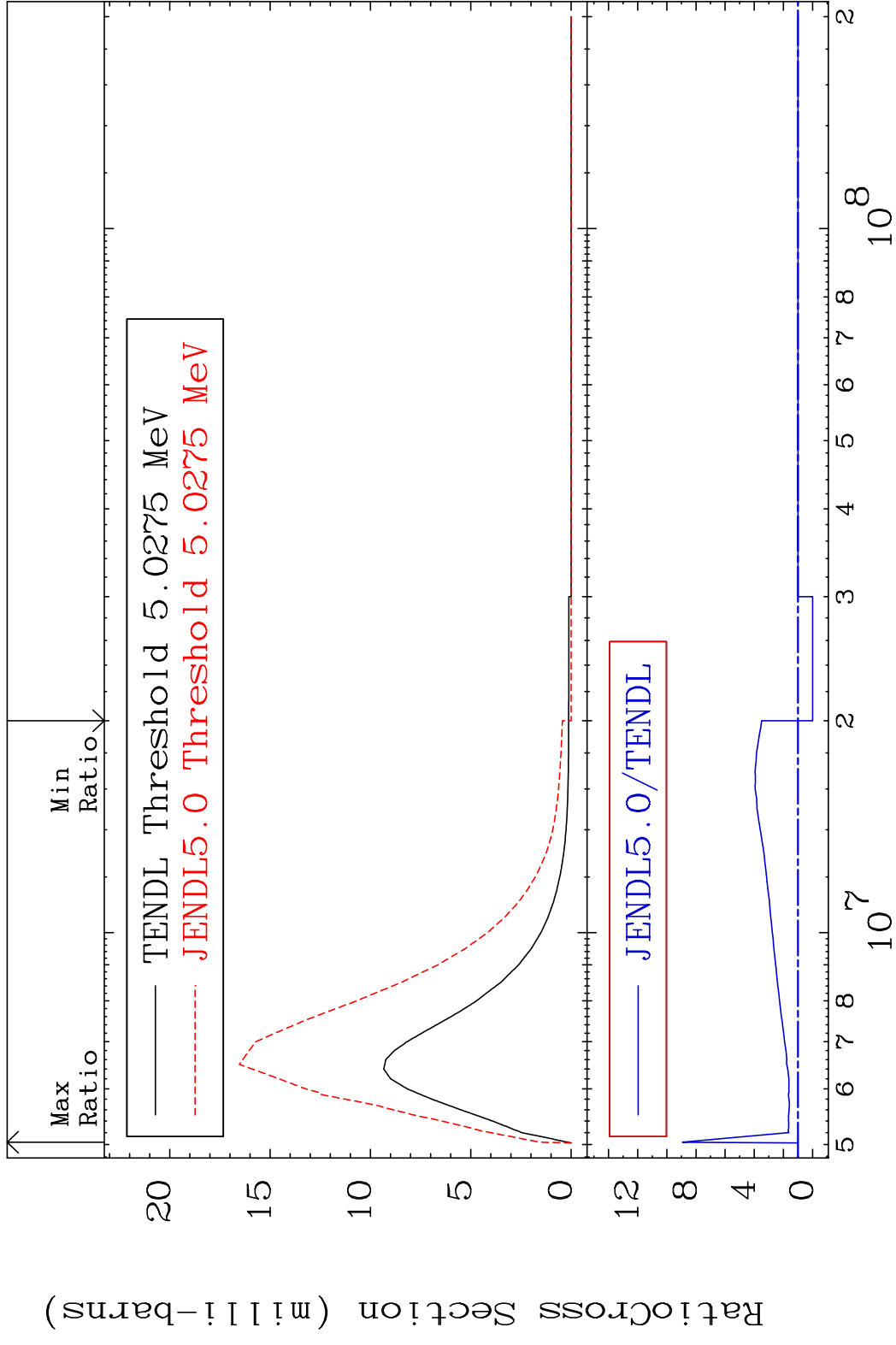




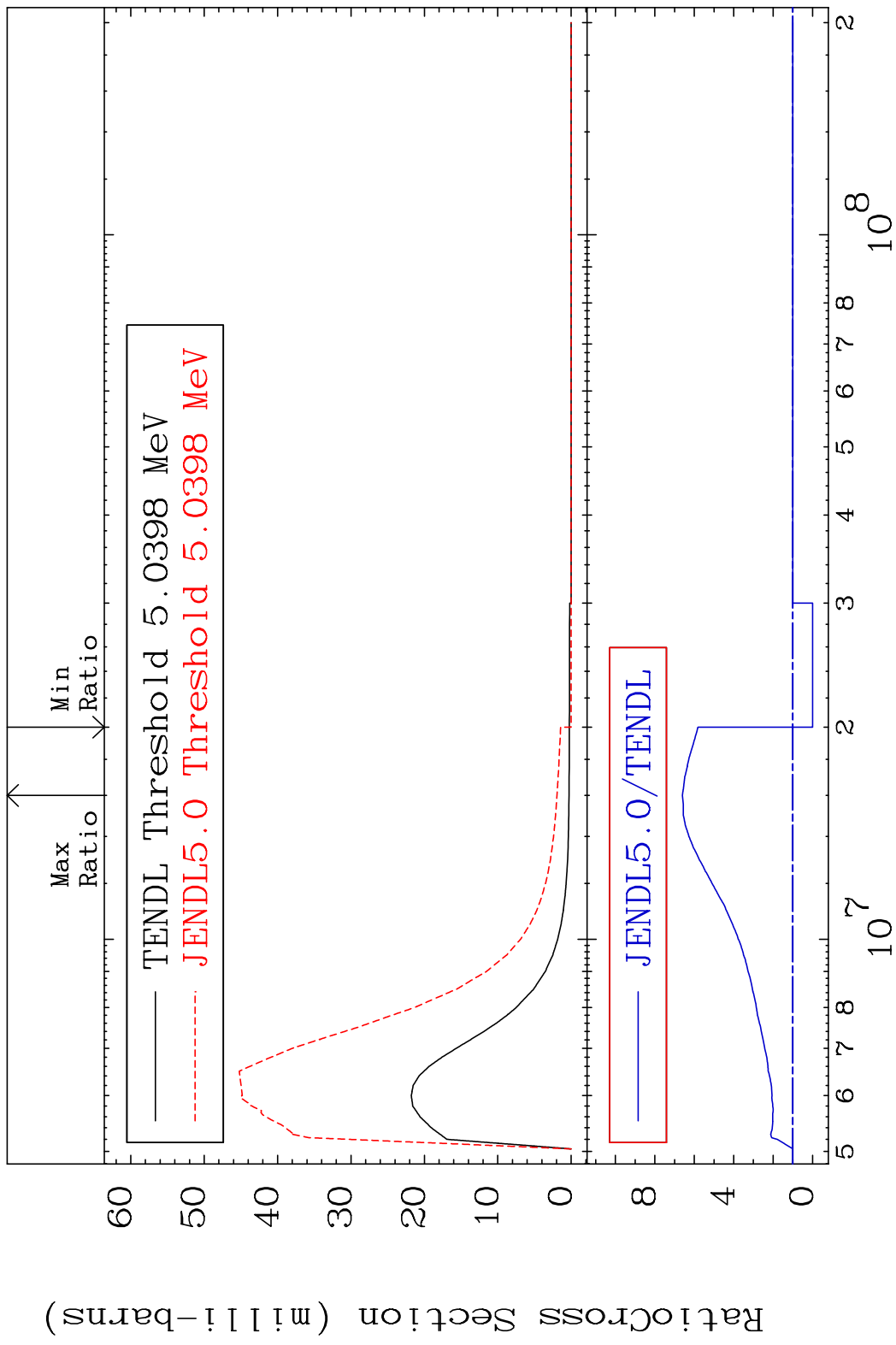
MAT 2237 MT= 67 (n,n') Level 22-Ti-50  
 Cross Section -100.0 To 9999. %



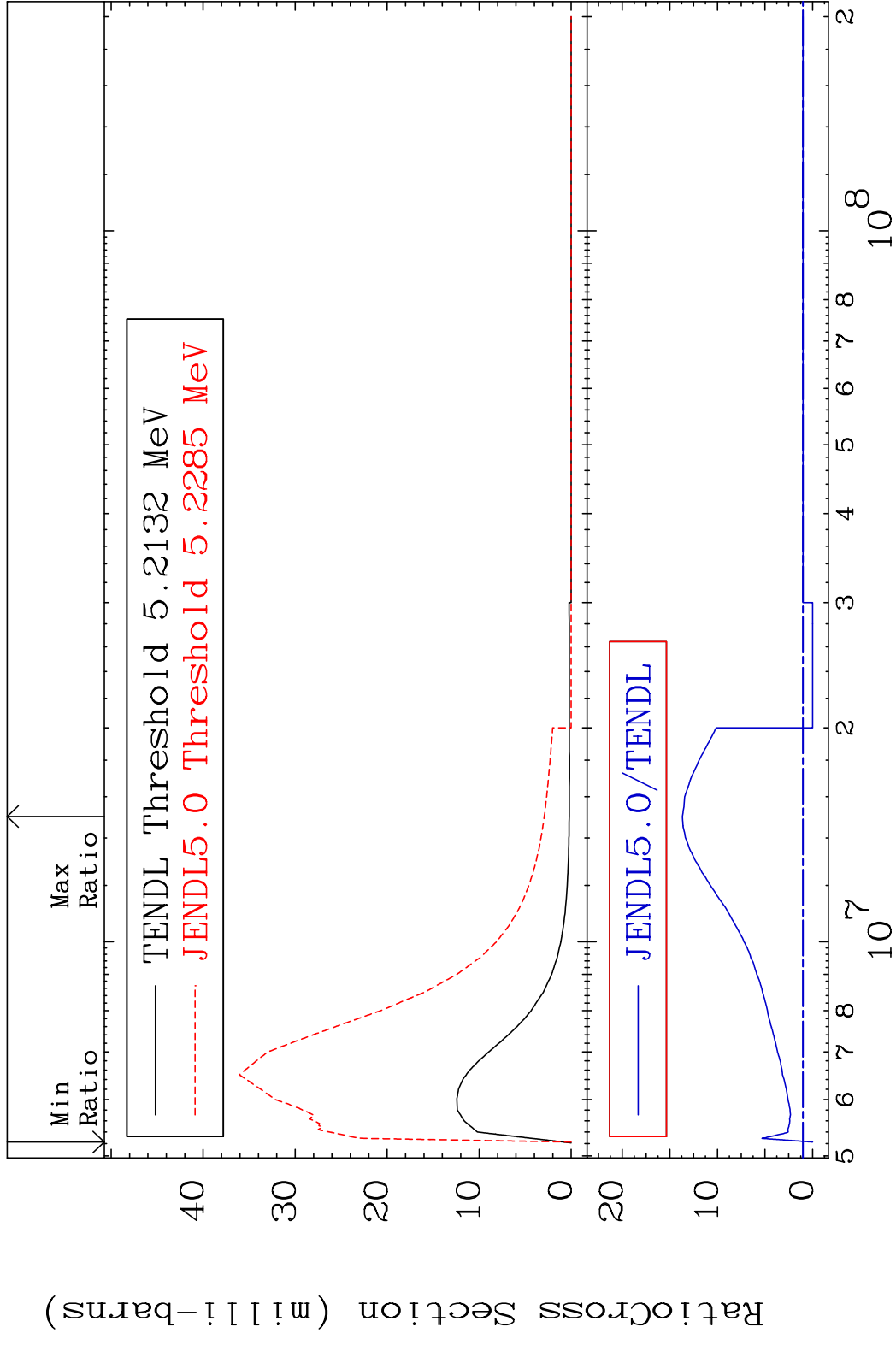
MAT 2237 MT= 68 (n,n') Level 22-Ti-50  
 Cross Section -100.0 To 793.5 %



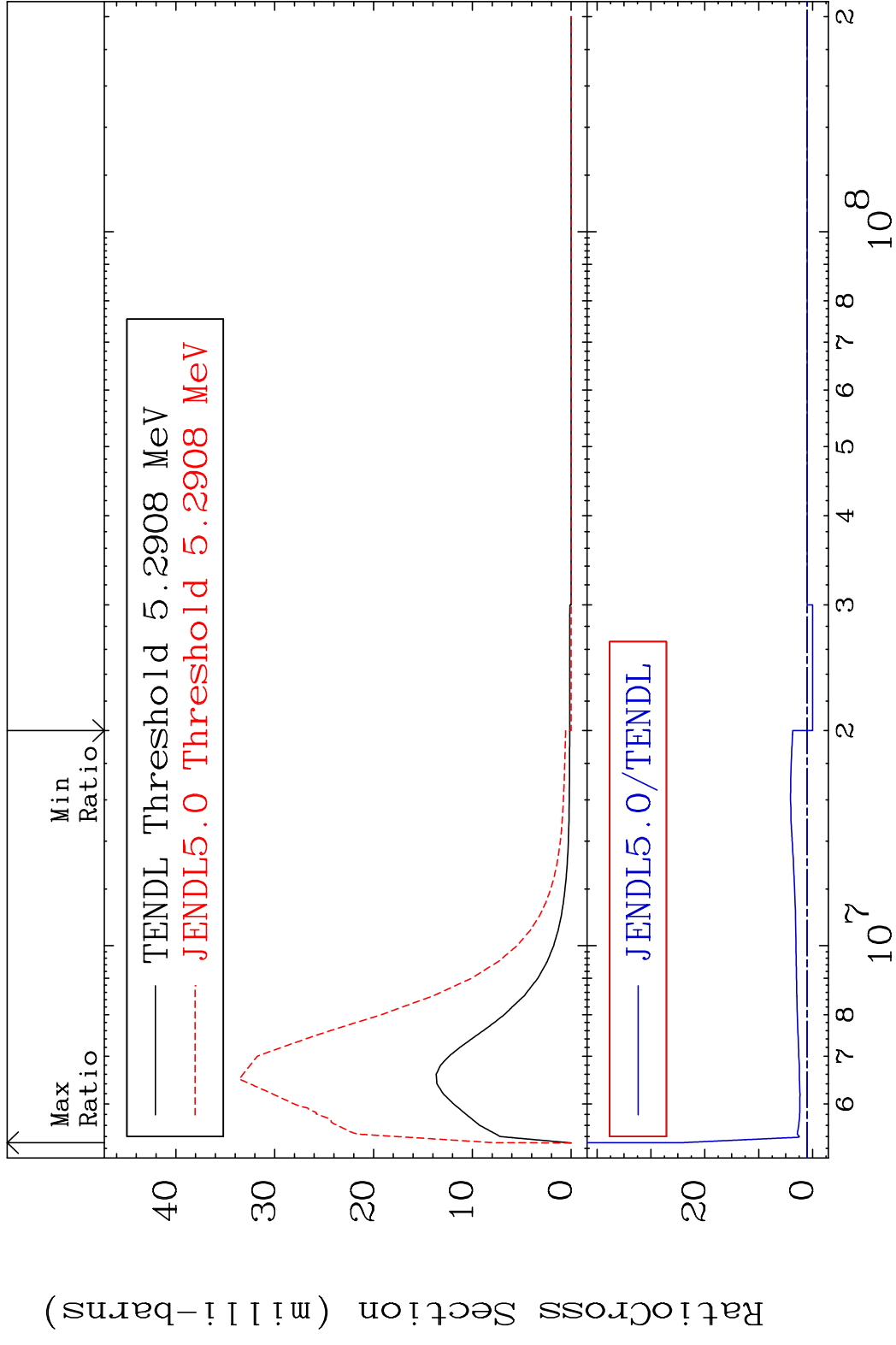
MAT 2237 MT= 69 (n,n') Level 22-Ti-50  
 Cross Section -100.0 To 560.6 %



MAT 2237 MT= 70 (n,n') Level 22-Ti-50  
 Cross Section -100.0 To 1269. %

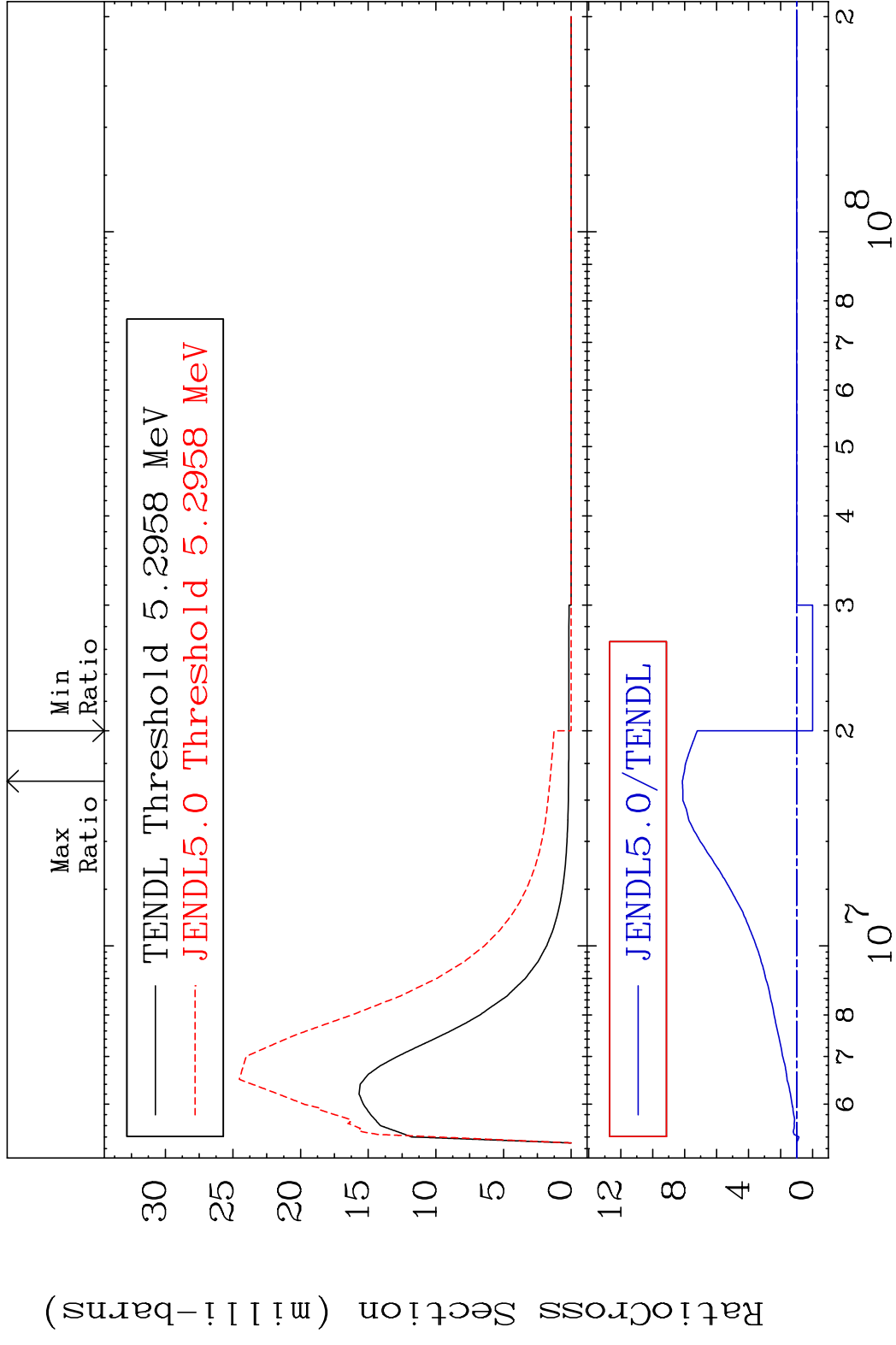


MAT 2237 MT= 71 (n,n') Level 22-Ti-50  
 Cross Section -100.0 To 2317. %



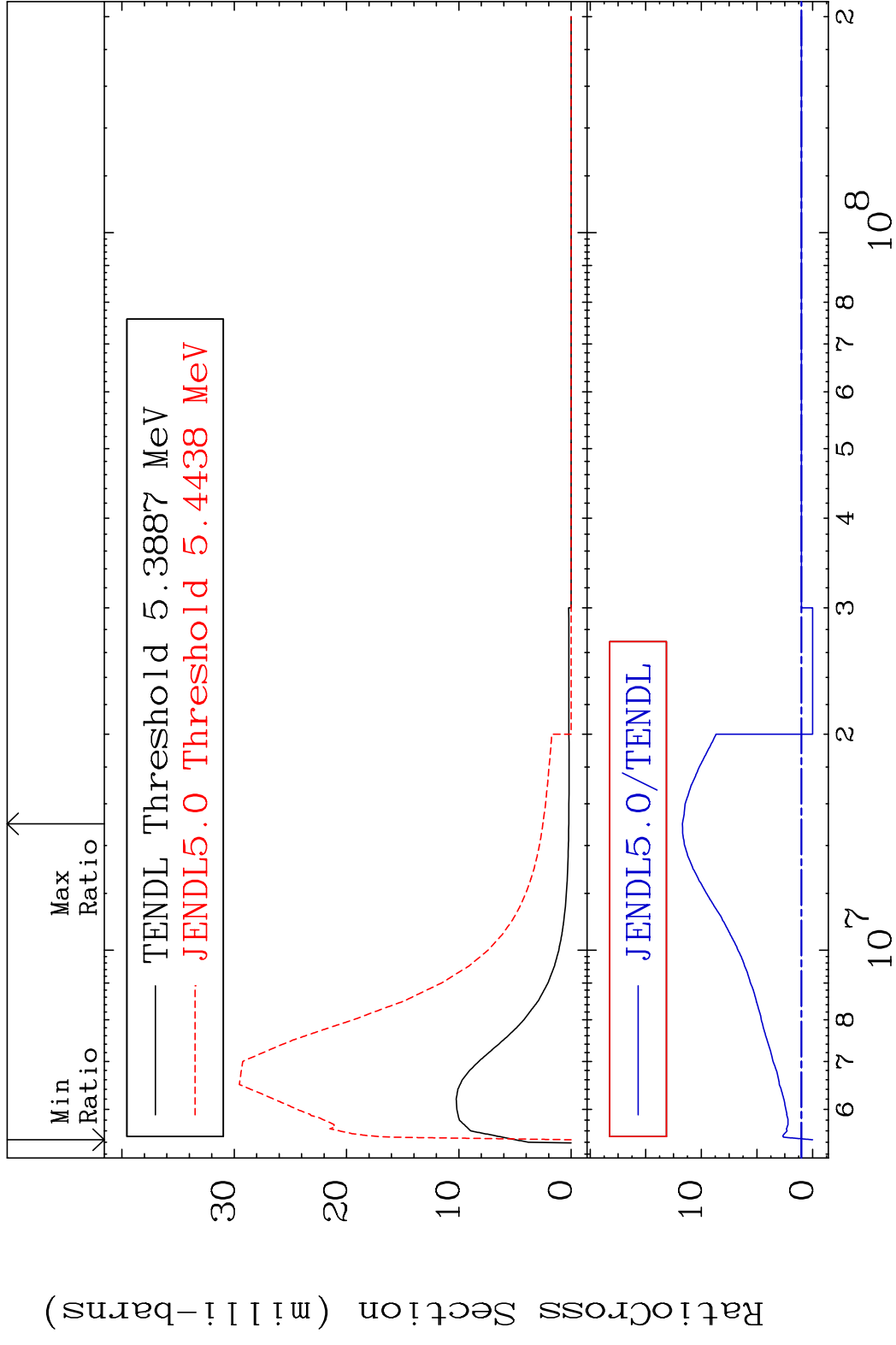
28 Incident Energy (eV) 22-Ti-50

MAT 2237 MT= 72 (n,n') Level 22-Ti-50  
 Cross Section -100.0 To 714.5 %



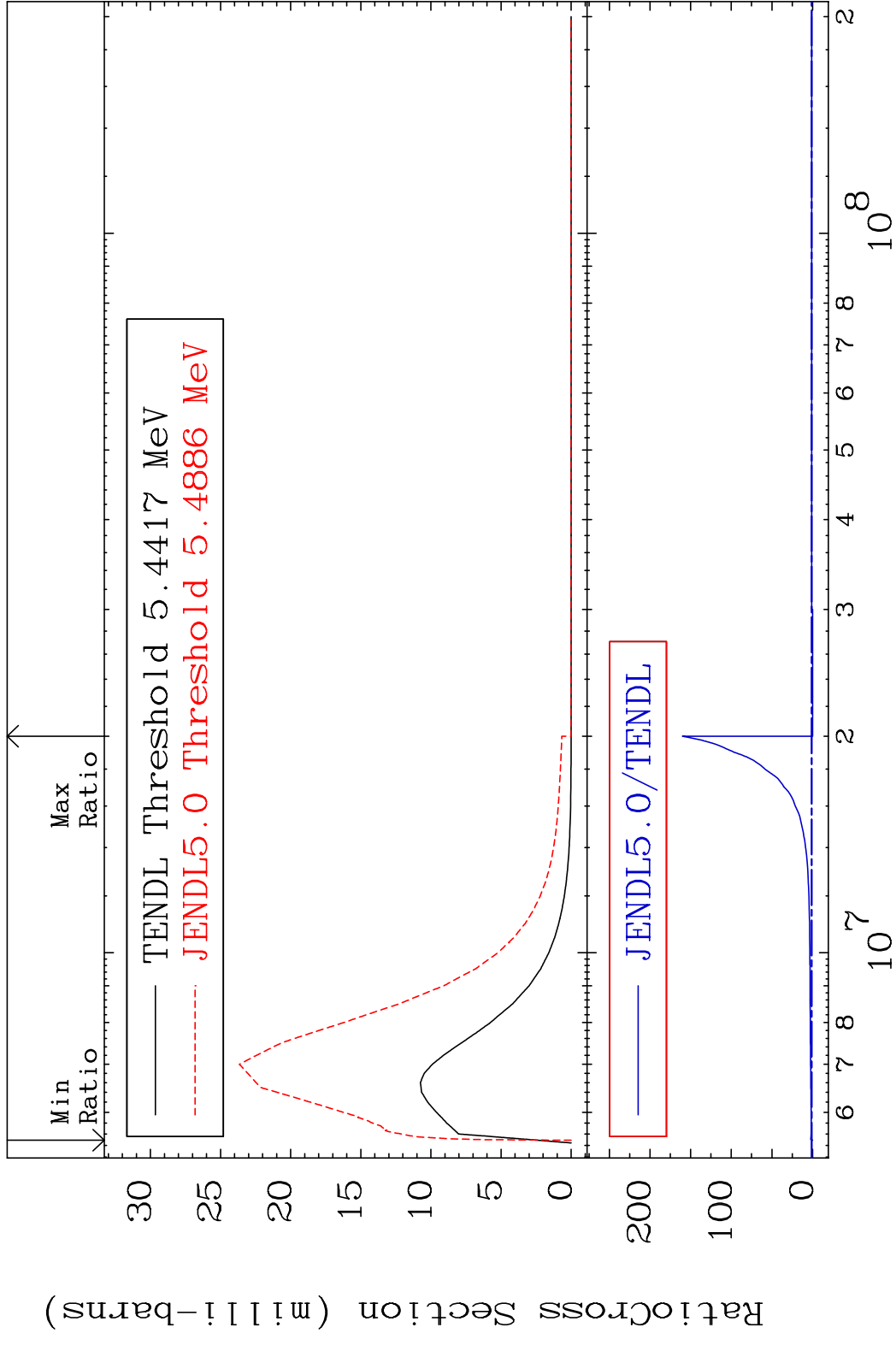
29 Incident Energy (eV) 22-Ti-50

MAT 2237 MT= 73 (n,n') Level 22-Ti-50  
 Cross Section -100.0 To 1071. %



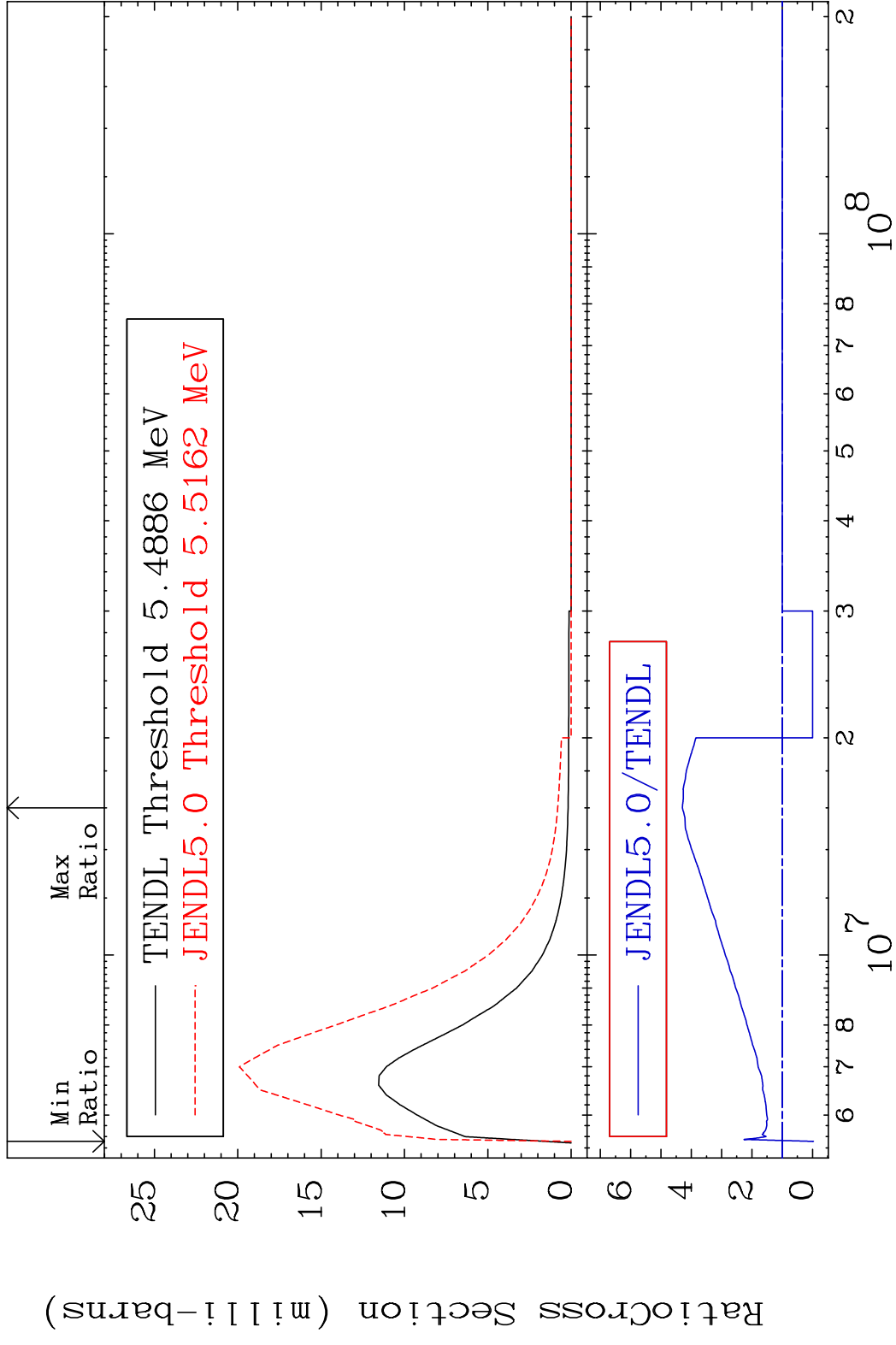
30 Incident Energy (eV) 22-Ti-50

MAT 2237 MT= 74 (n,n') Level 22-Ti-50  
 Cross Section -100.0 To 9999. %

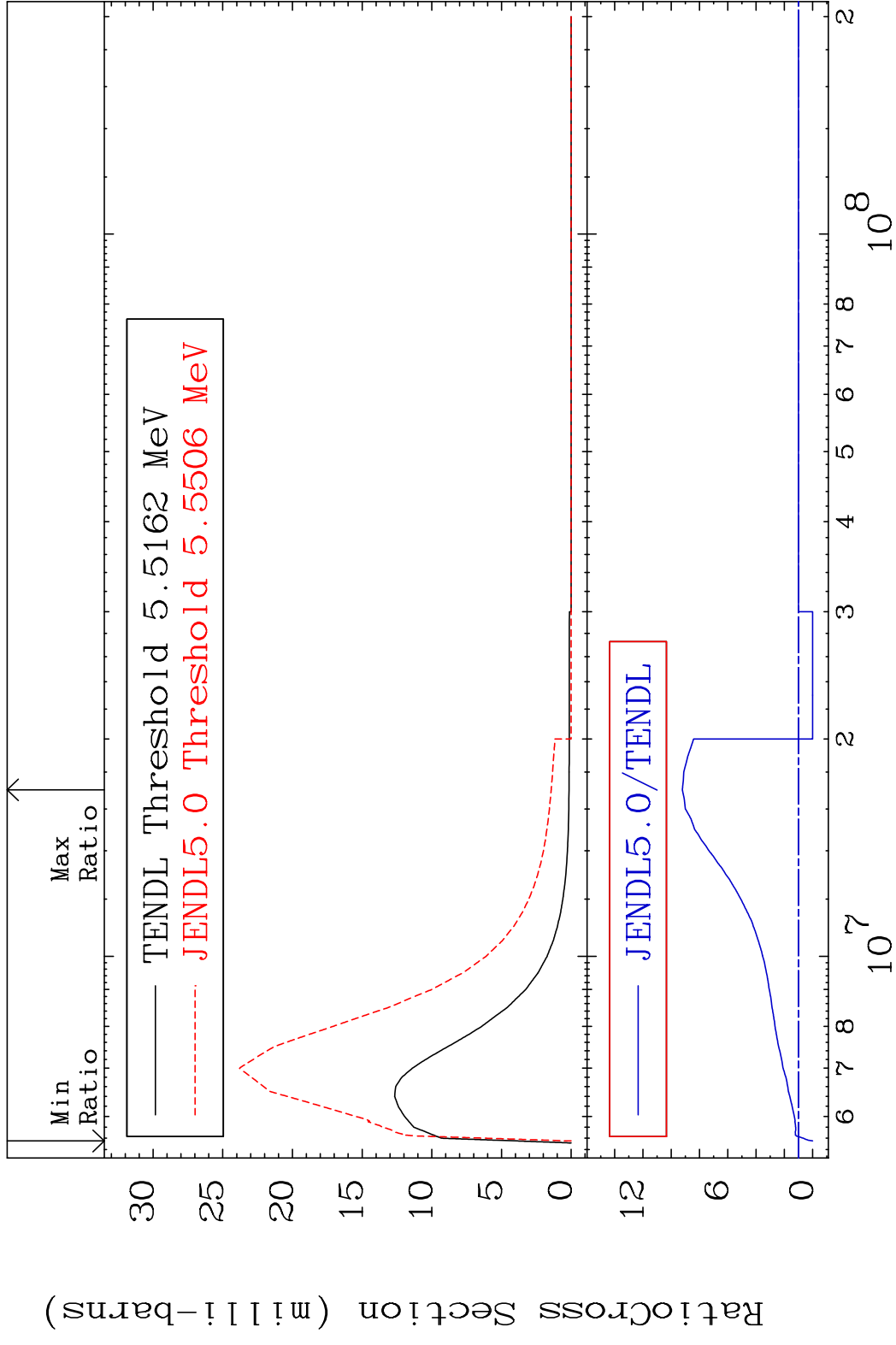




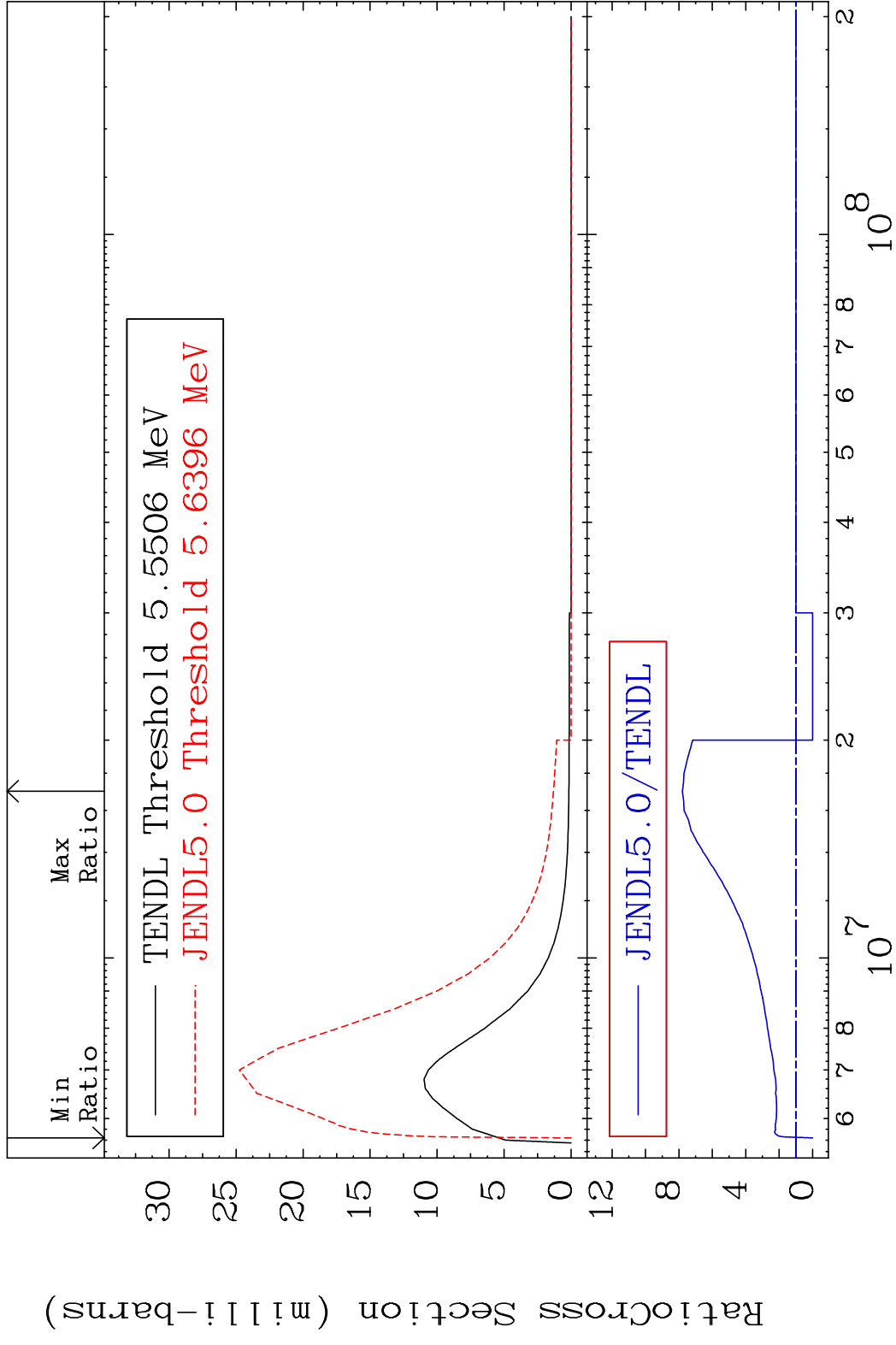
MAT 2237 MT= 75 (n,n') Level 22-Ti-50  
 Cross Section -100.0 To 329.5 %



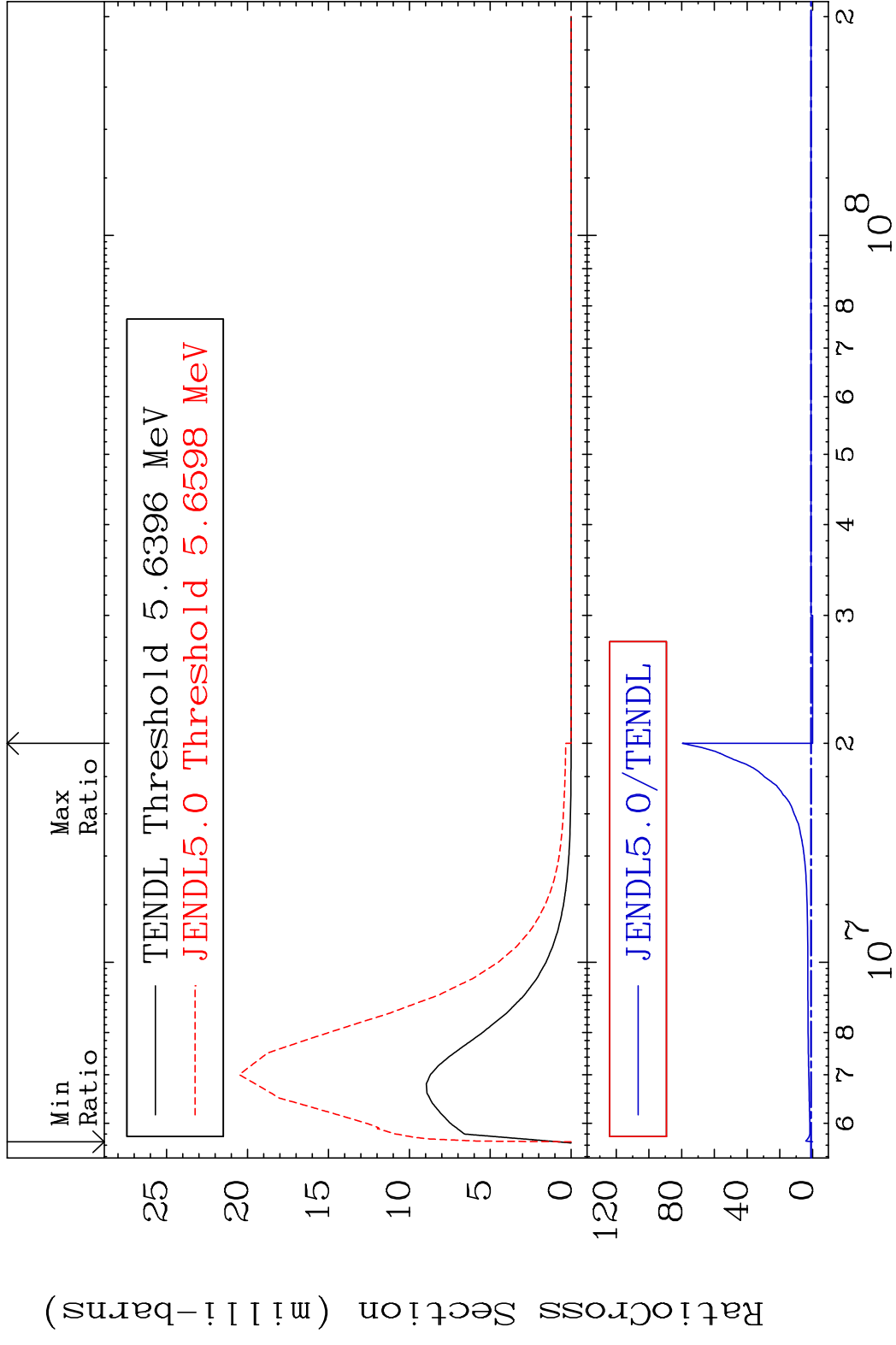
MAT 2237 MT= 76 (n,n') Level 22-Ti-50  
 Cross Section -100.0 To 821.6 %



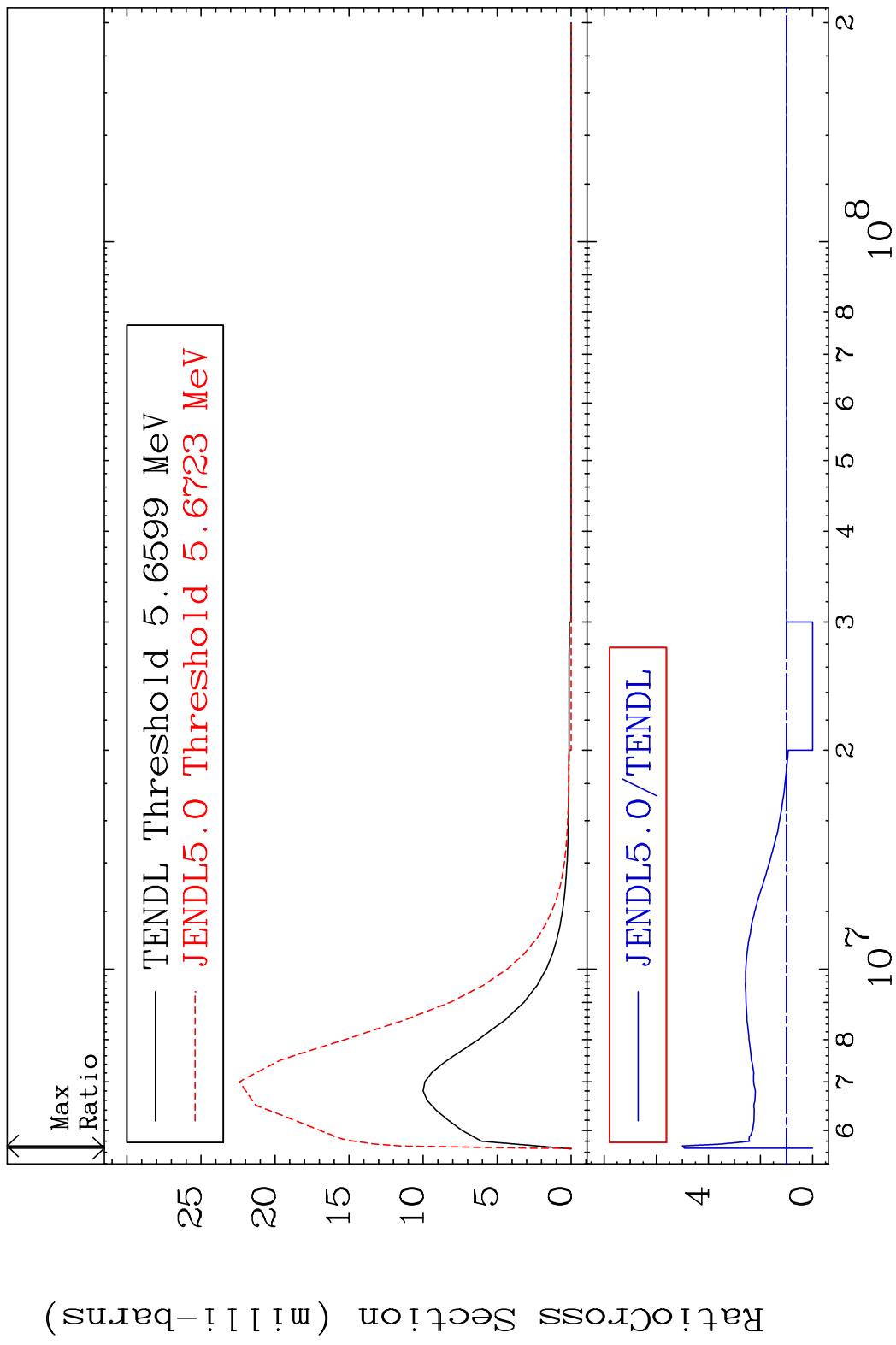
MAT 2237 MT= 77 (n,n') Level 22-Ti-50  
 Cross Section -100.0 To 679.5 %



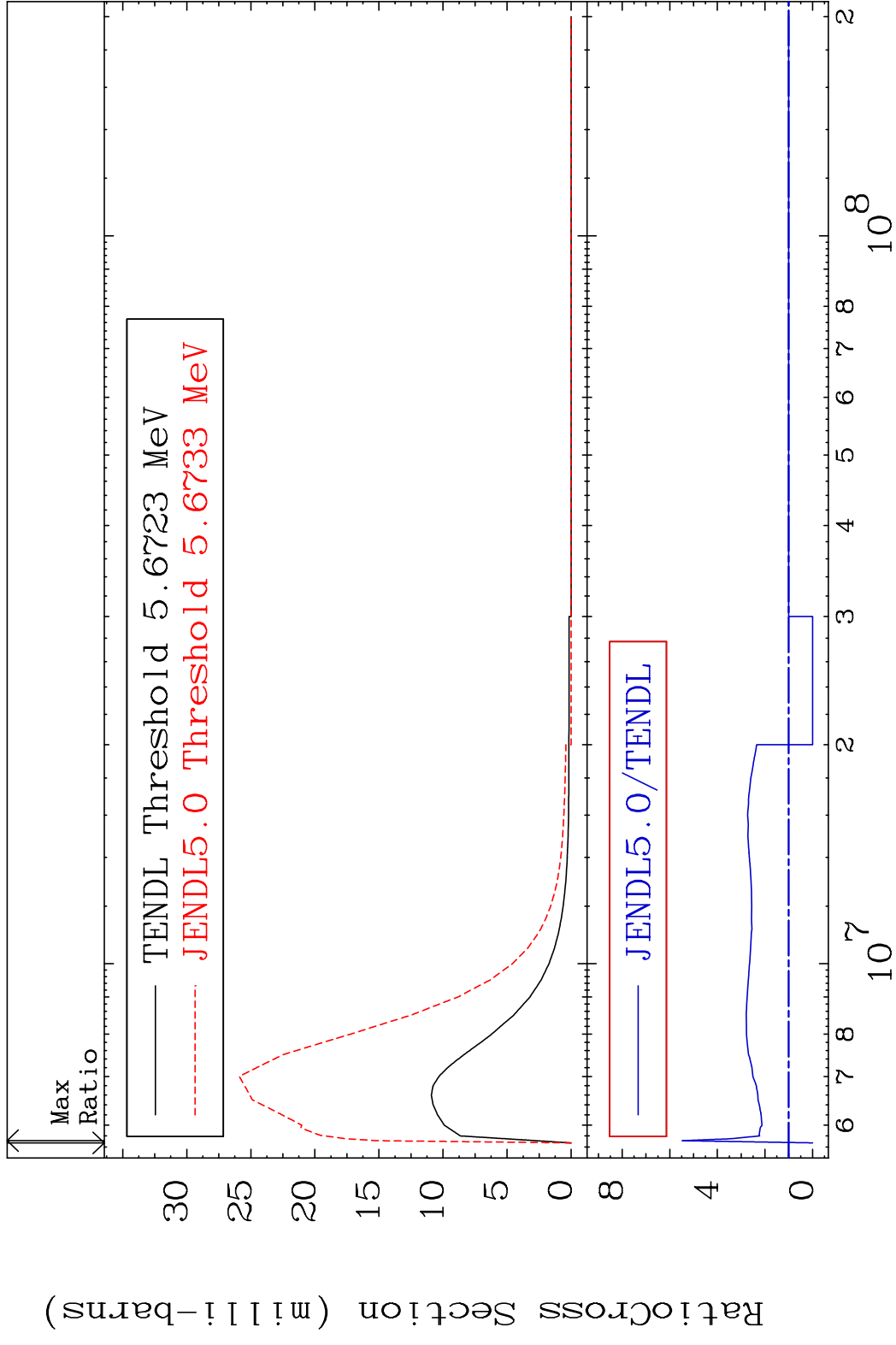
MAT 2237 MT= 78 (n,n') Level 22-Ti-50  
 Cross Section -100.0 To 7858. %



MAT 2237      MT= 79 (n,n') Level      22-Ti-50  
 Cross Section    -100.0 To 399.9 %



MAT 2237 MT= 80 (n,n') Level 22-Ti-50  
 Cross Section -100.0 To 447.2 %

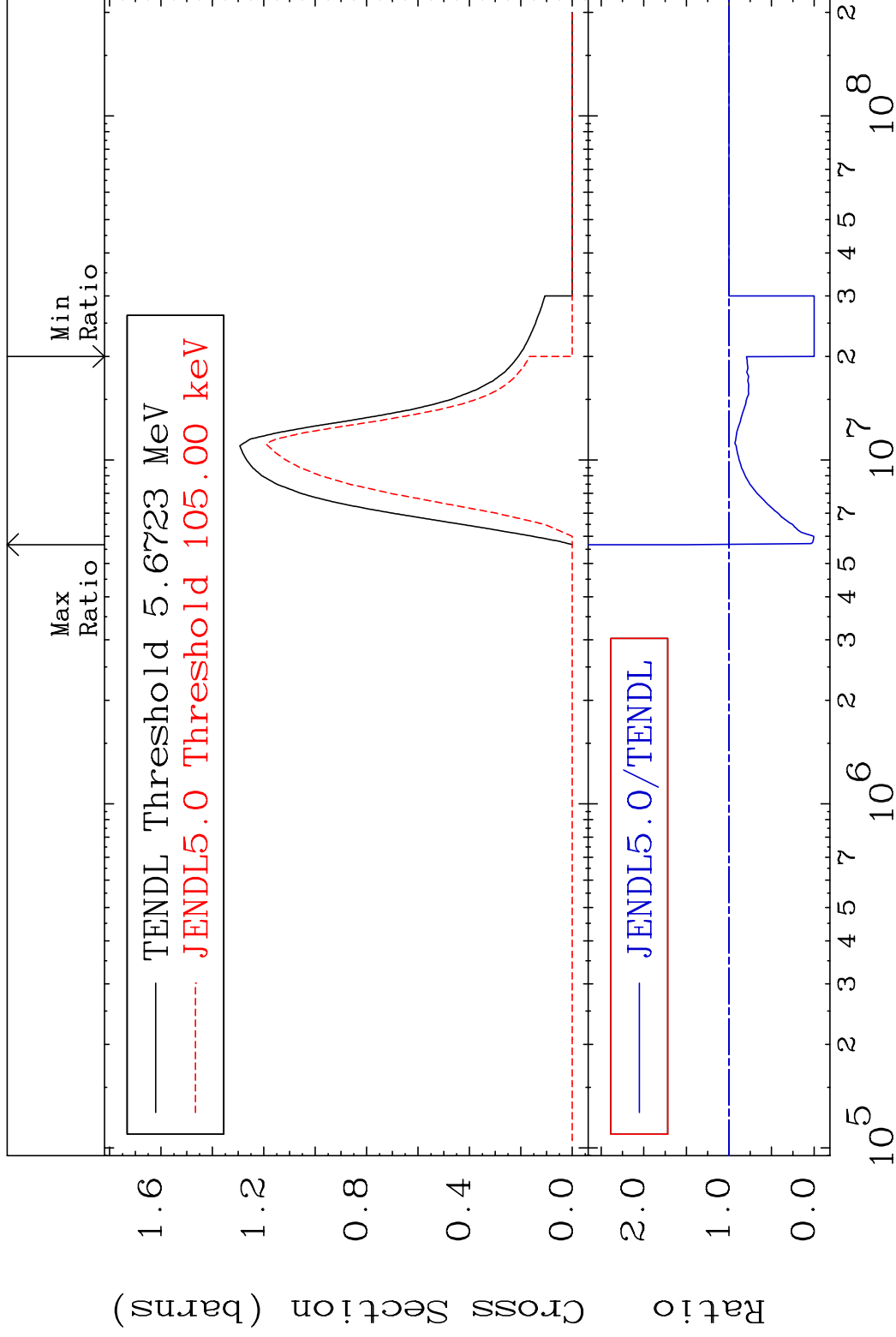


MAT 2237

(n, n') Continuum

<sup>22</sup>Ti-50

Cross Section -100.0 To 53.18 %



38

Incident Energy (eV)

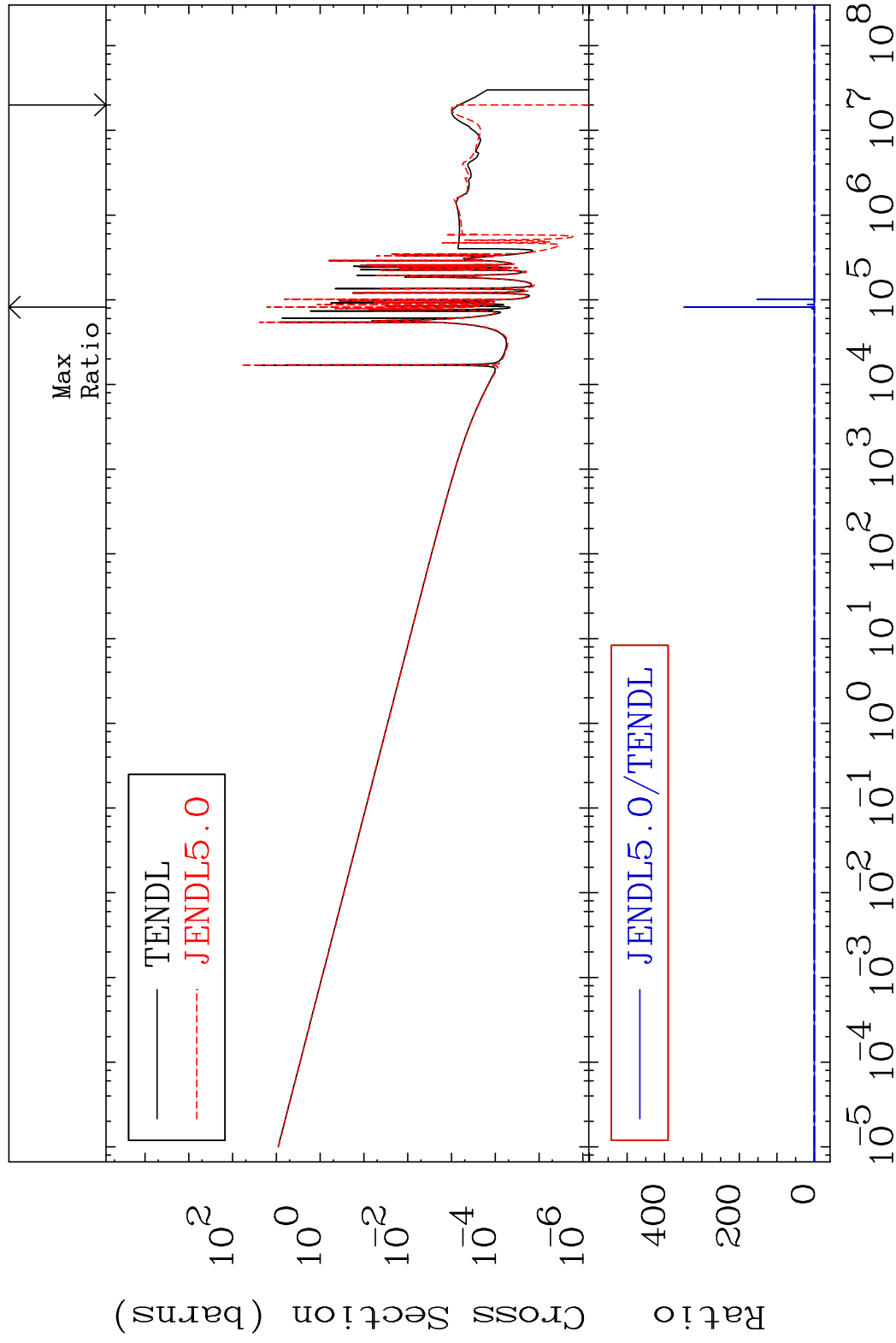
<sup>22</sup>Ti-50

MAT 2237

(n,  $\gamma$ )

22-Ti-50

Cross Section -100.0 To 9999. %



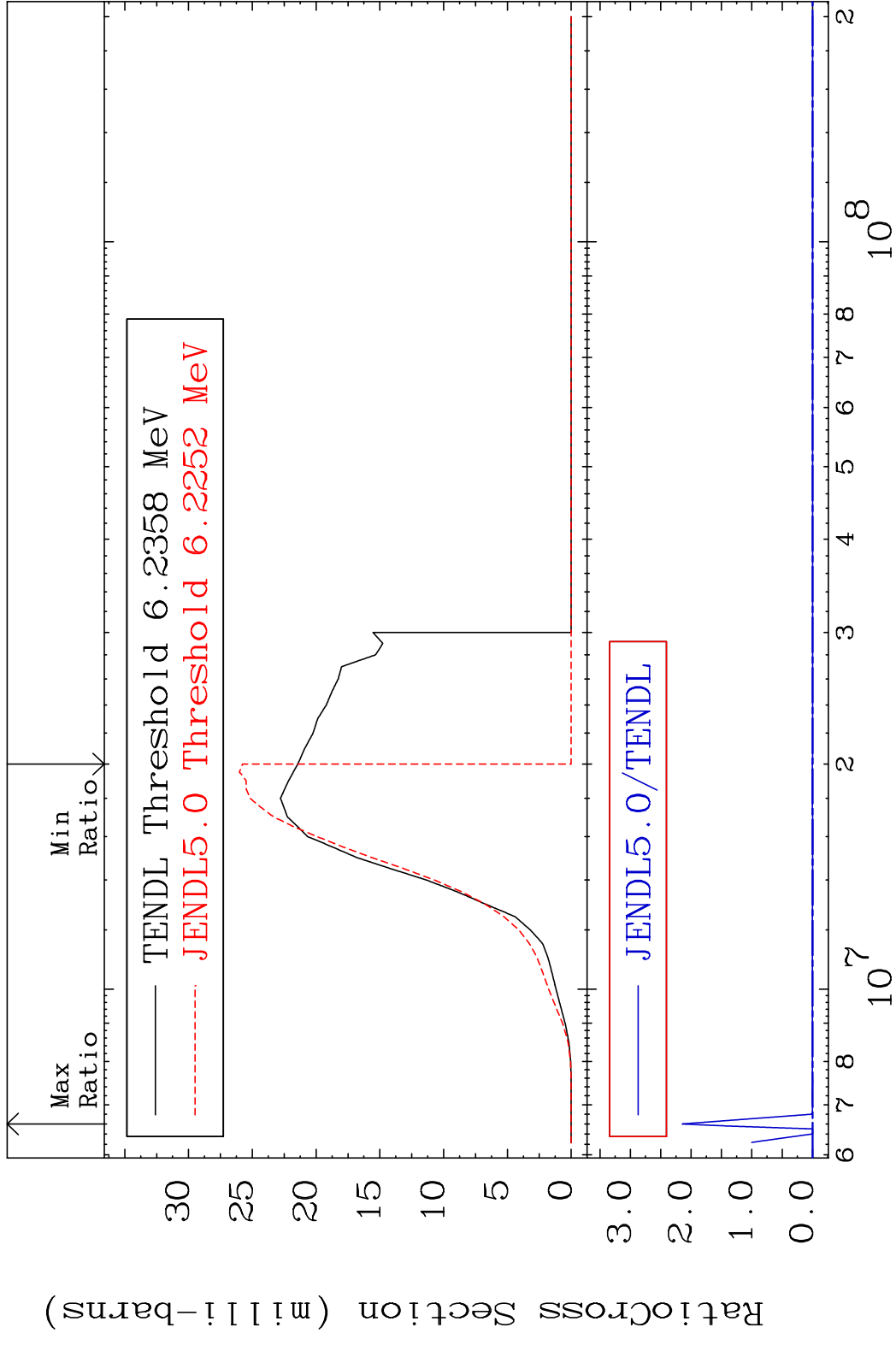
39

Incident Energy (eV)

22-Ti-50

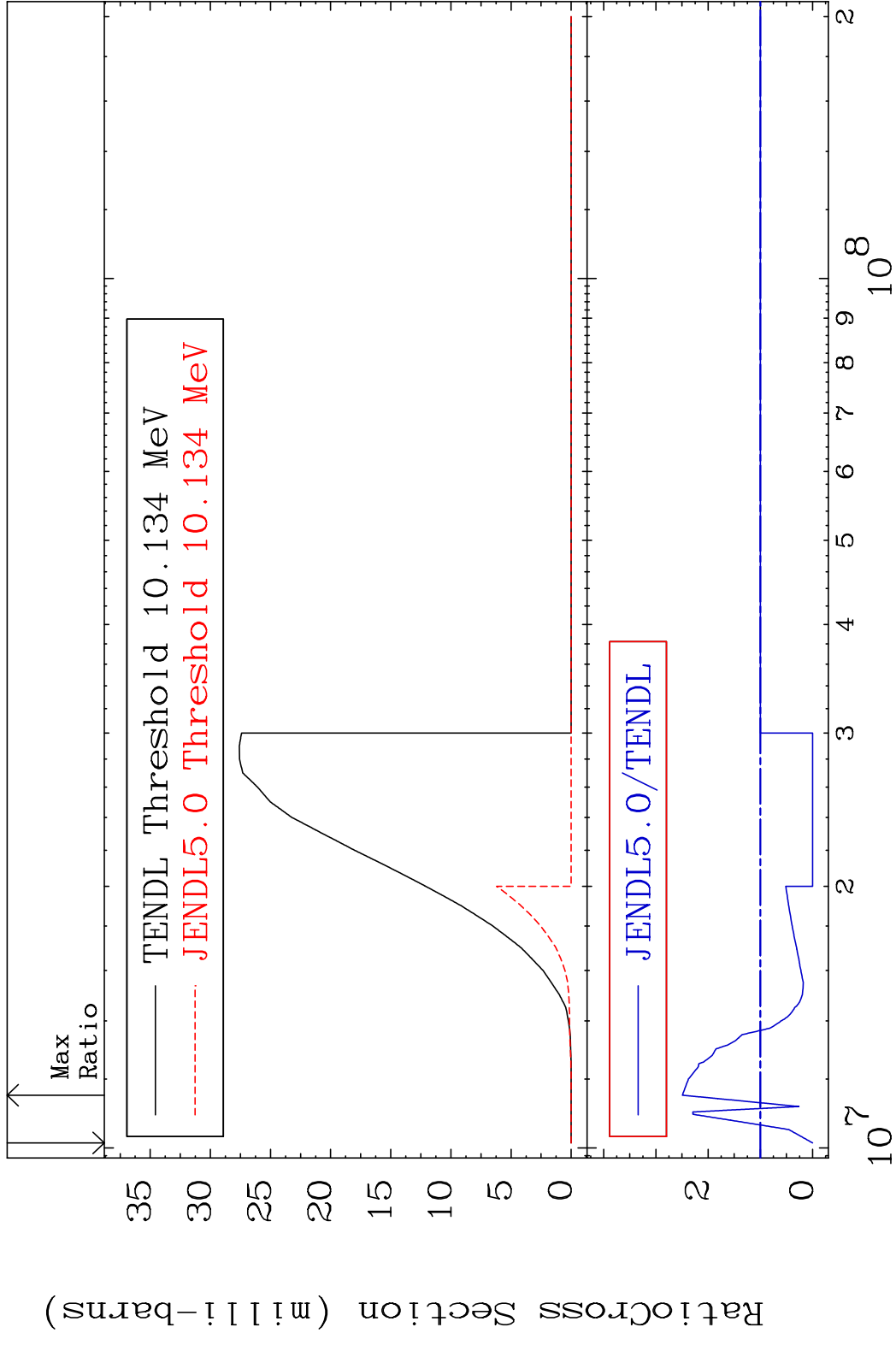


MAT 2237 (n,p) 22-Ti-50  
 Cross Section -100.0 To 9999. %



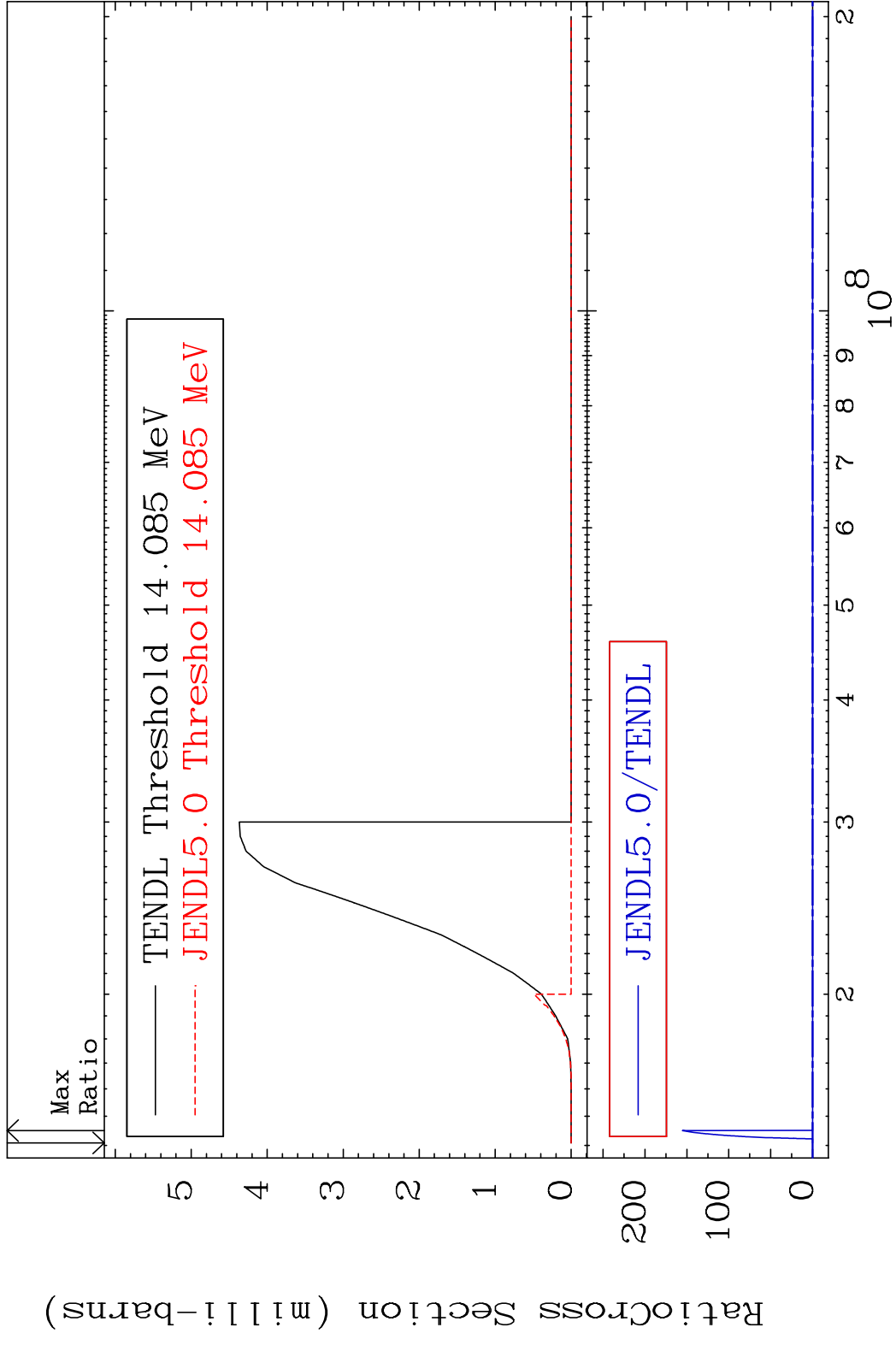
40 22-Ti-50

MAT 2237 (n,d) 22-Ti-50  
 Cross Section -100.0 To 149.3 %



41 Incident Energy (eV) 22-Ti-50

MAT 2237 (n, t) 22-Ti-50  
 Cross Section -100.0 To 9999. %

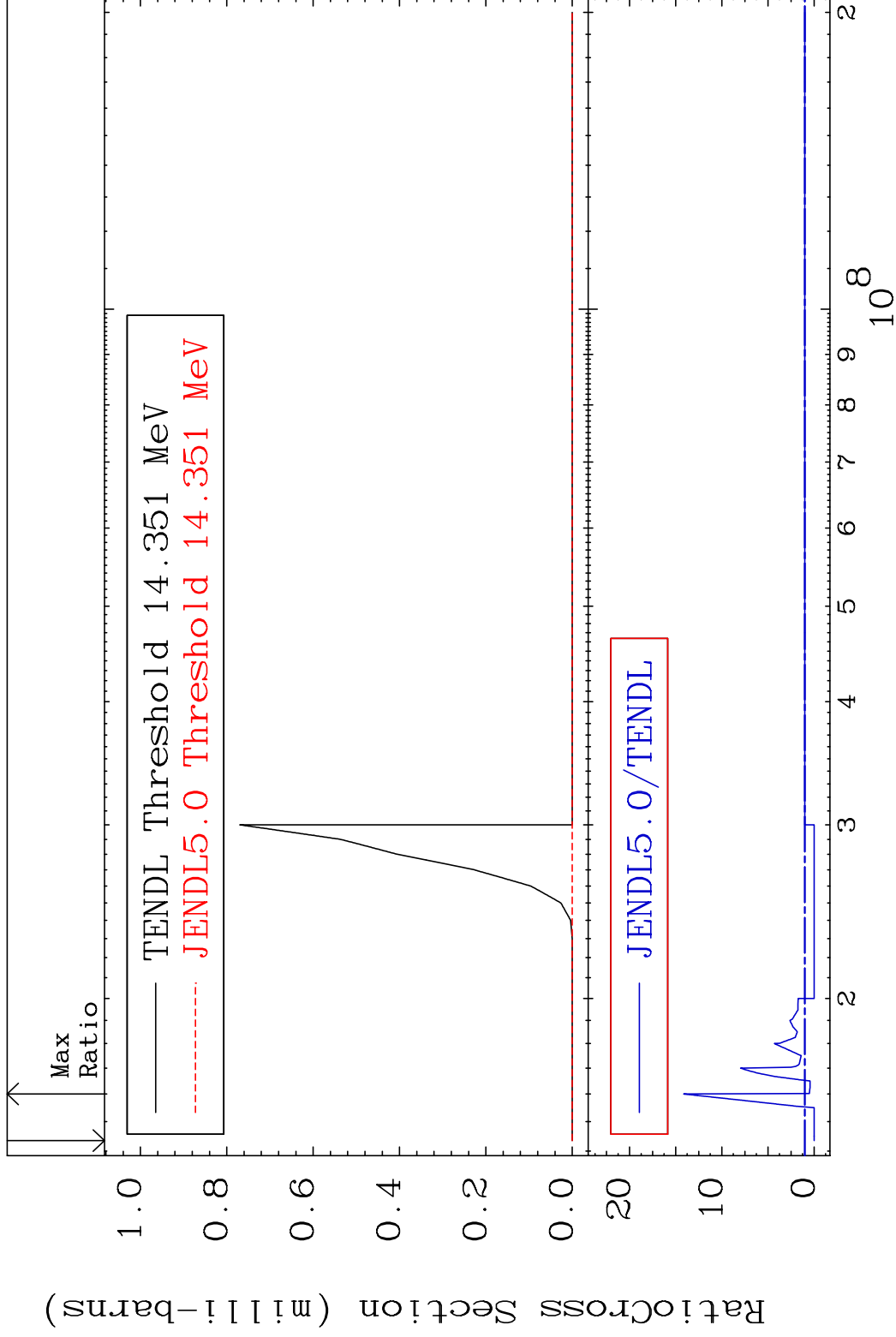


MAT 2237

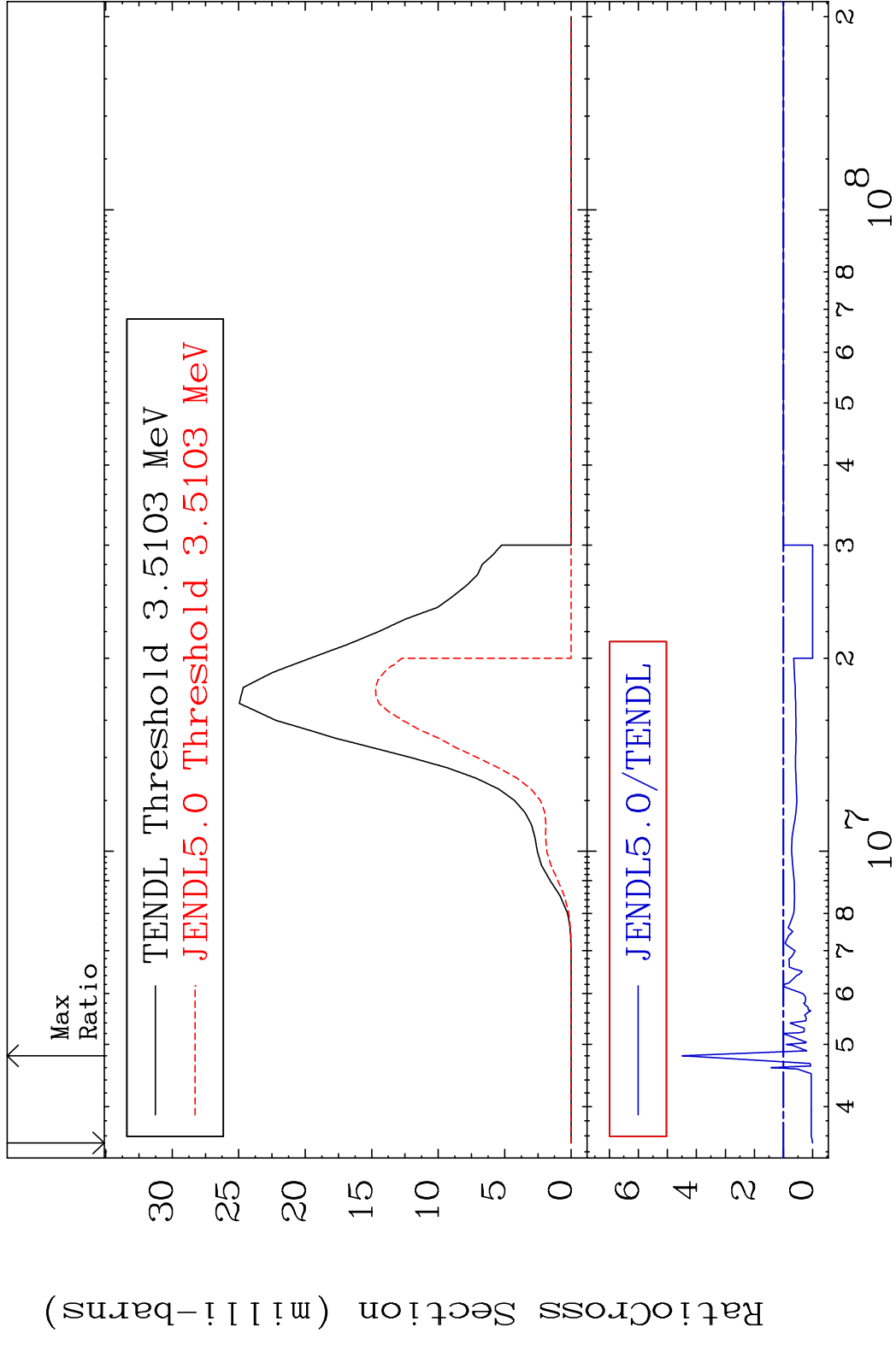
(n, He-3)

<sup>22</sup>Ti-50

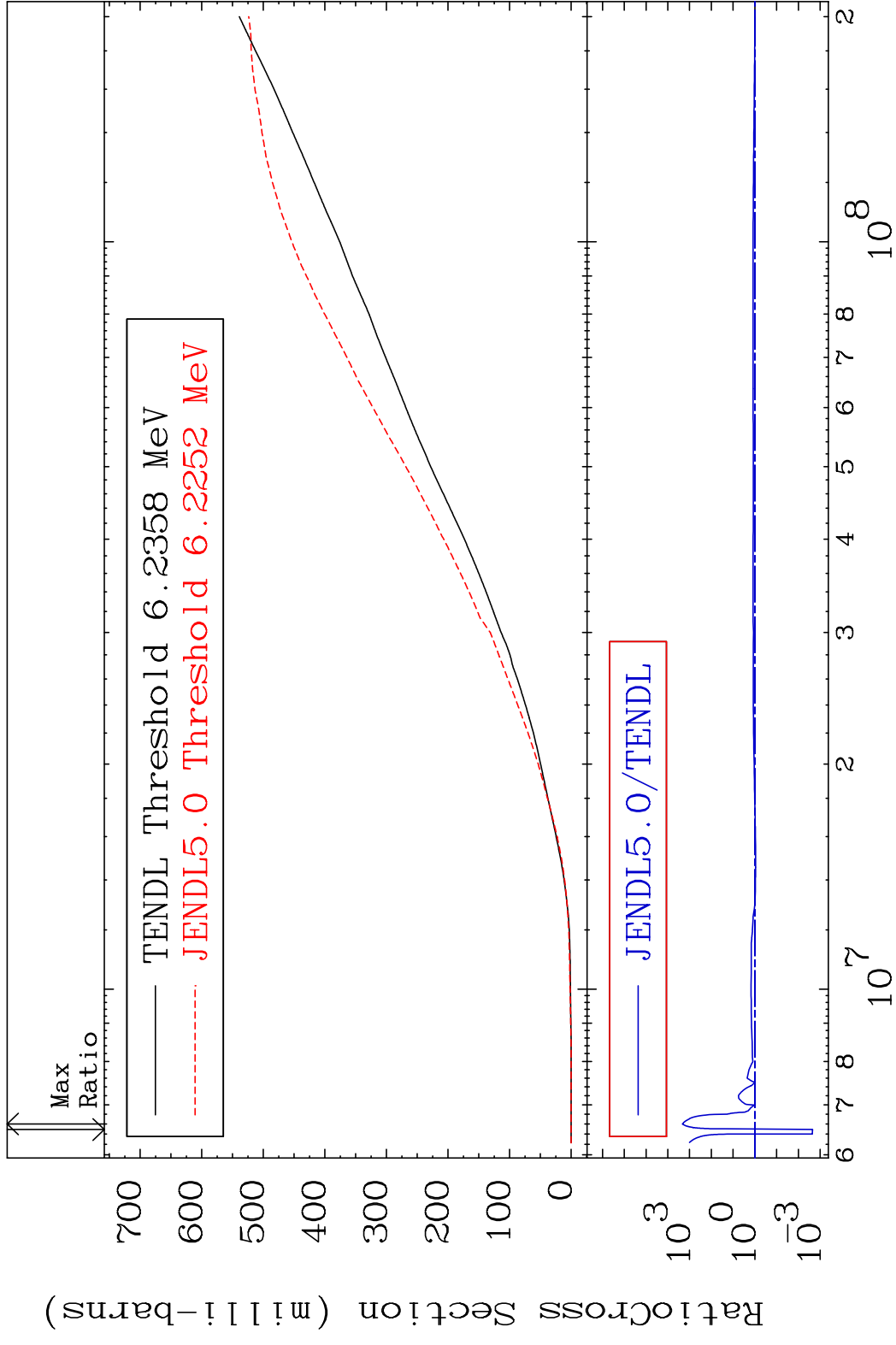
Cross Section -100.0 To 1314. %



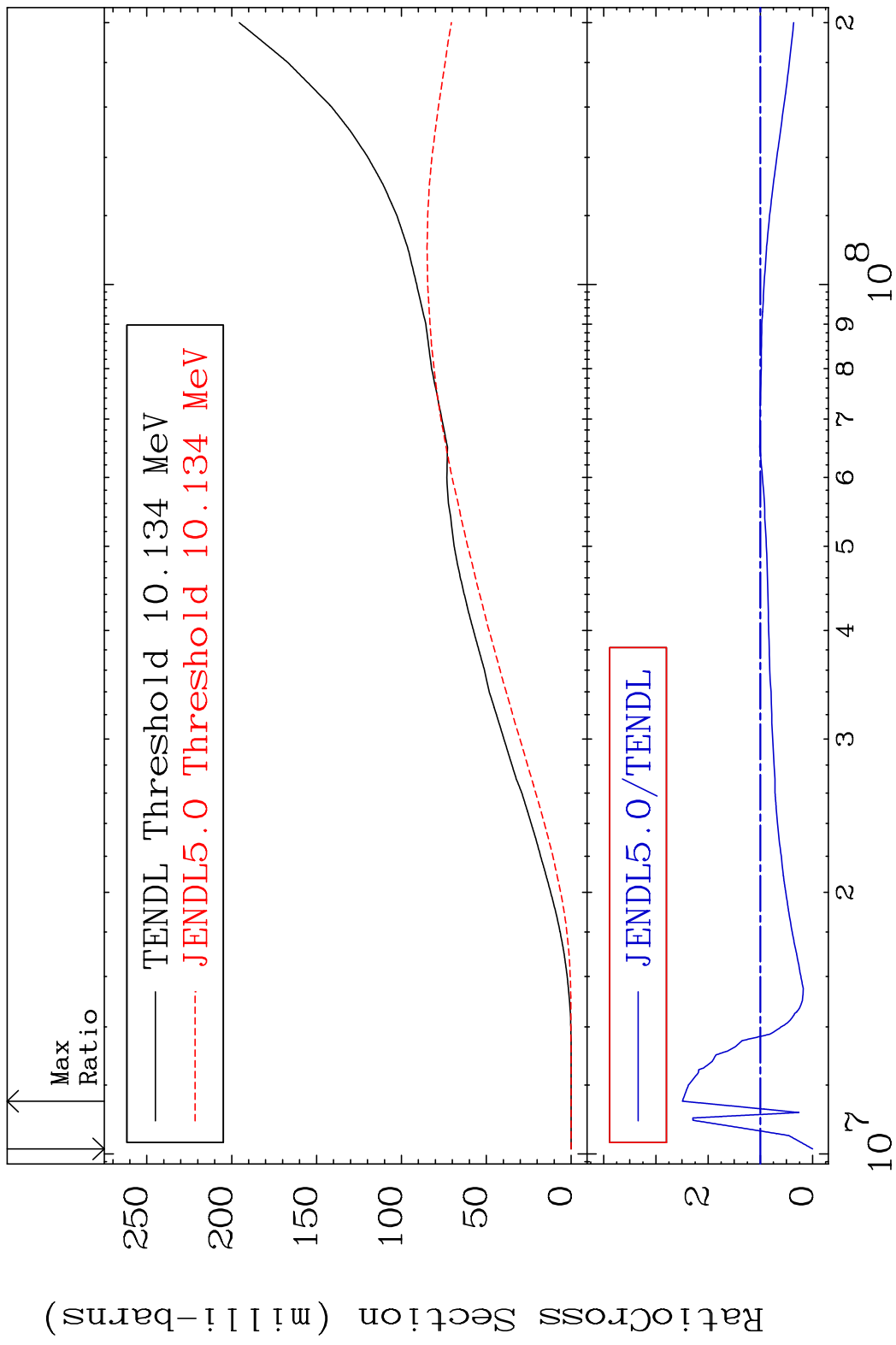
MAT 2237 (n,  $\alpha$ ) 22-Ti-50  
 Cross Section -100.0 To 348.4 %



MAT 2237 Hydrogen Production 22-Ti-50  
 Cross Section -99.78 To 9999. %



MAT 2237 Deuterium Production  $^{22}\text{Ti-50}$   
 Cross Section -100.0 To 149.3 %



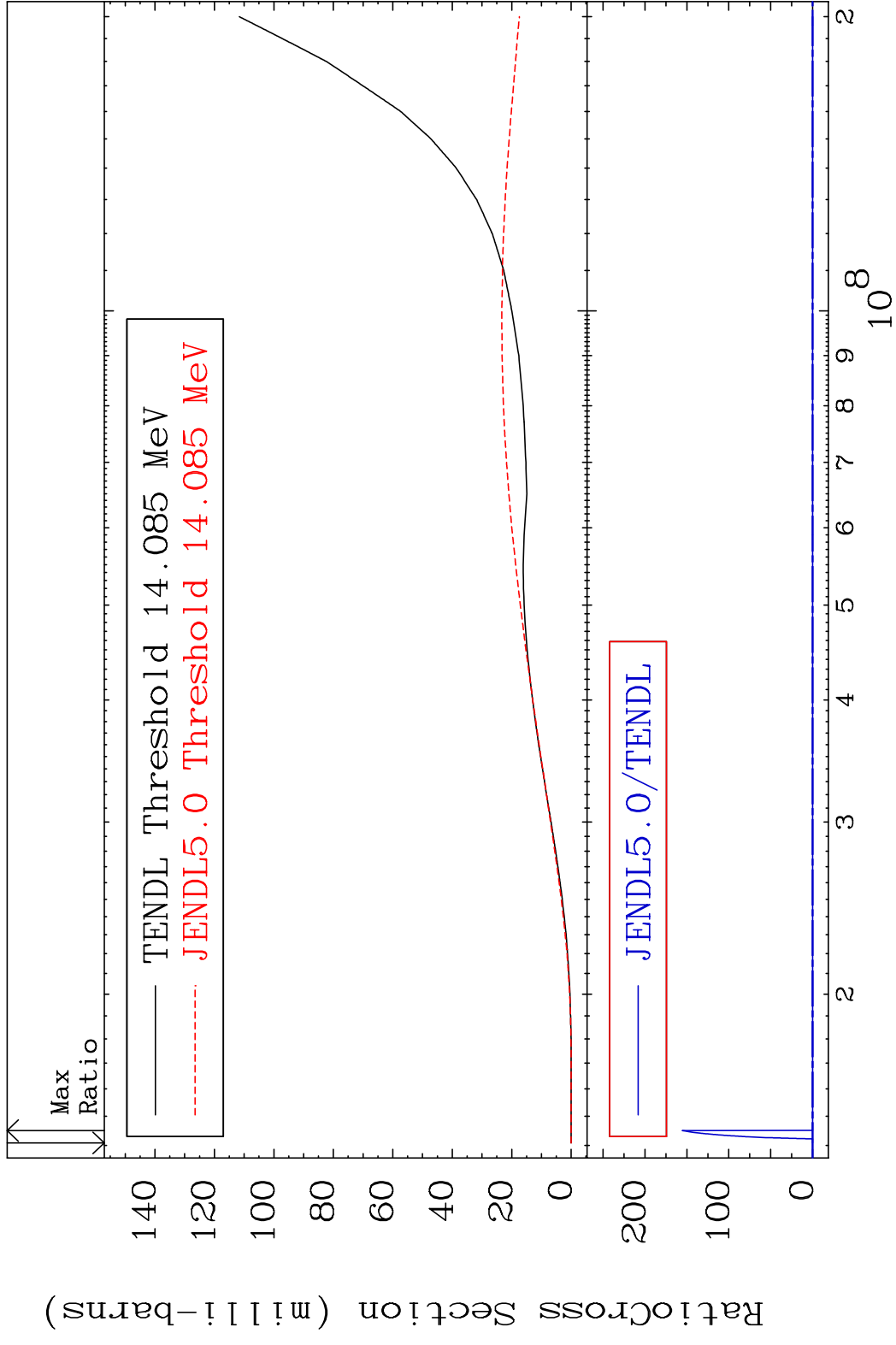
46 Incident Energy (eV)  $^{22}\text{Ti-50}$

MAT 2237

Tritium Production

<sup>22</sup>Ti-50

Cross Section -100.0 To 9999. %



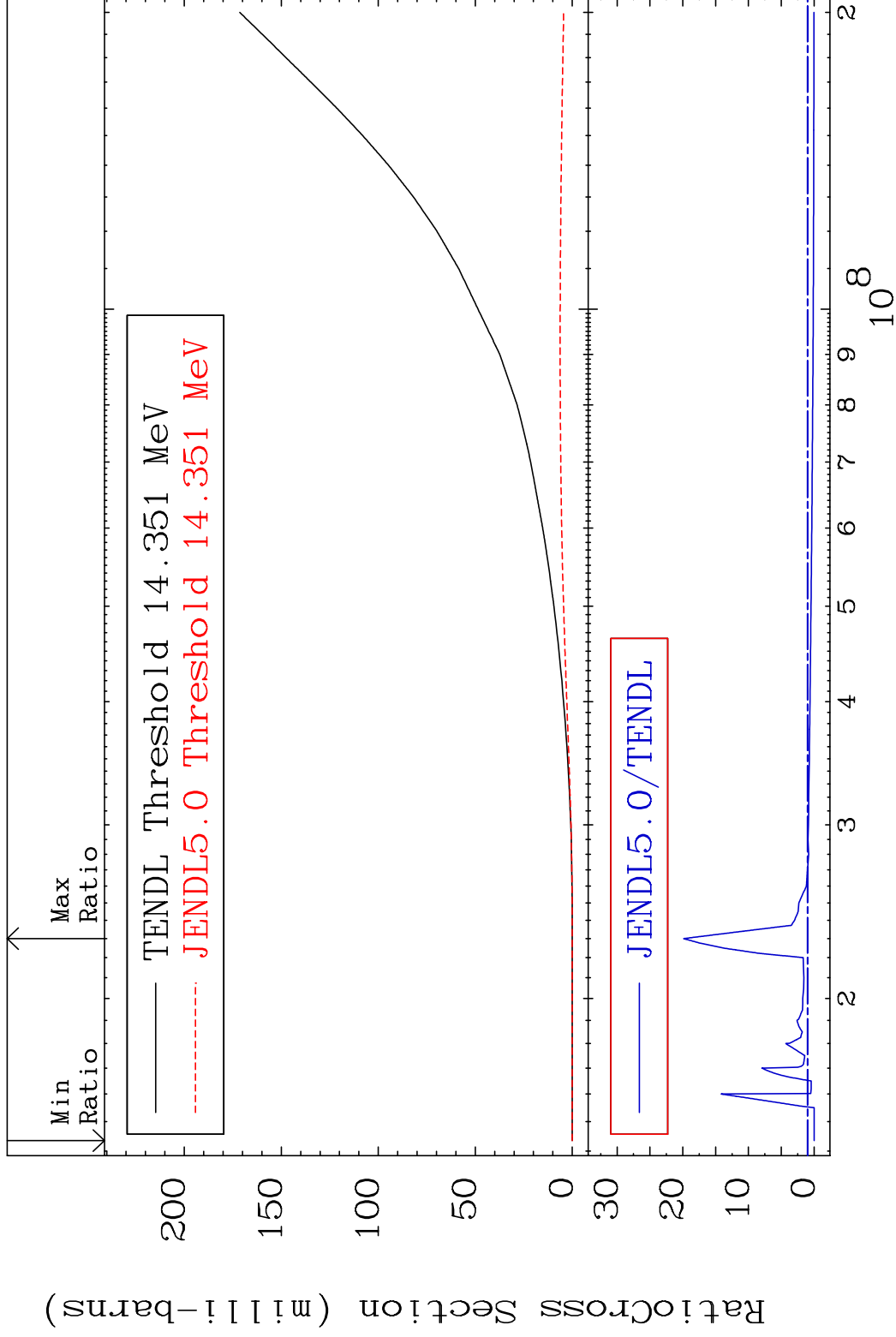


MAT 2237

He-3 Production

22-Ti-50

Cross Section -100.0 To 1886. %

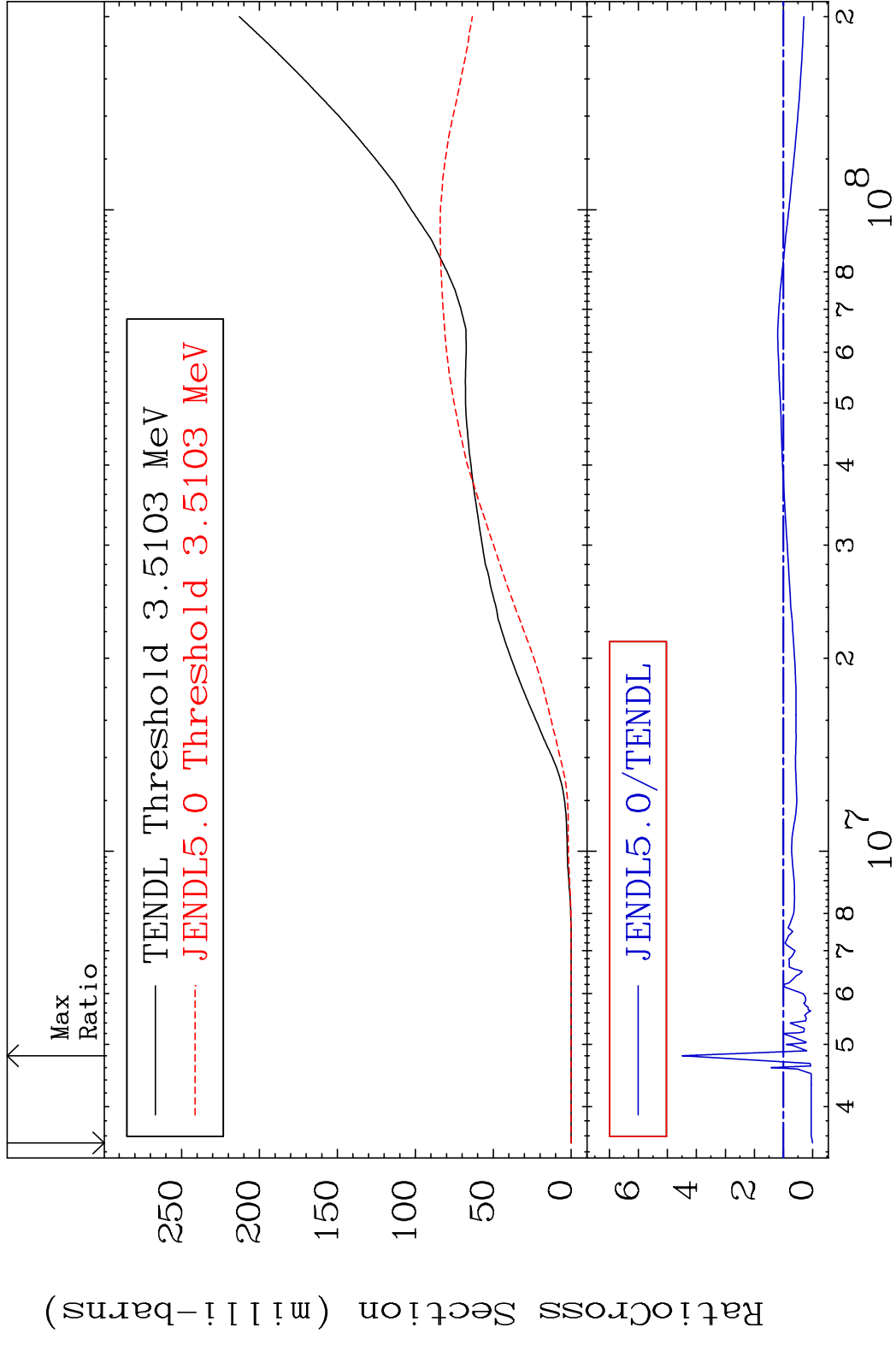


48

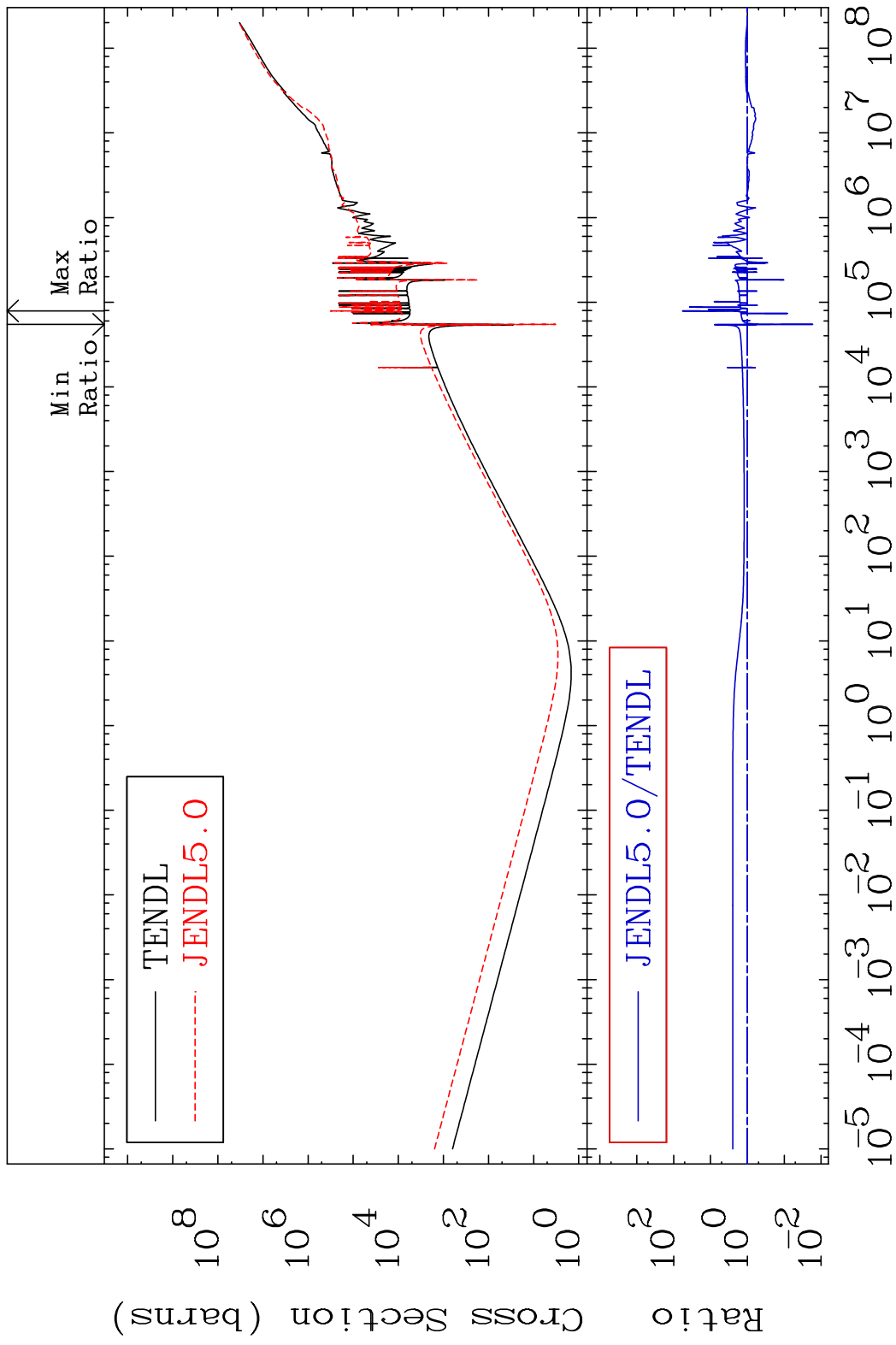
Incident Energy (eV)

22-Ti-50

MAT 2237 He-4 Production 22-Ti-50  
 Cross Section -100.0 To 348.4 %



MAT 2237 Kerma total (eV-barns) 22-Ti-50  
Cross Section -98.29 To 5709. %

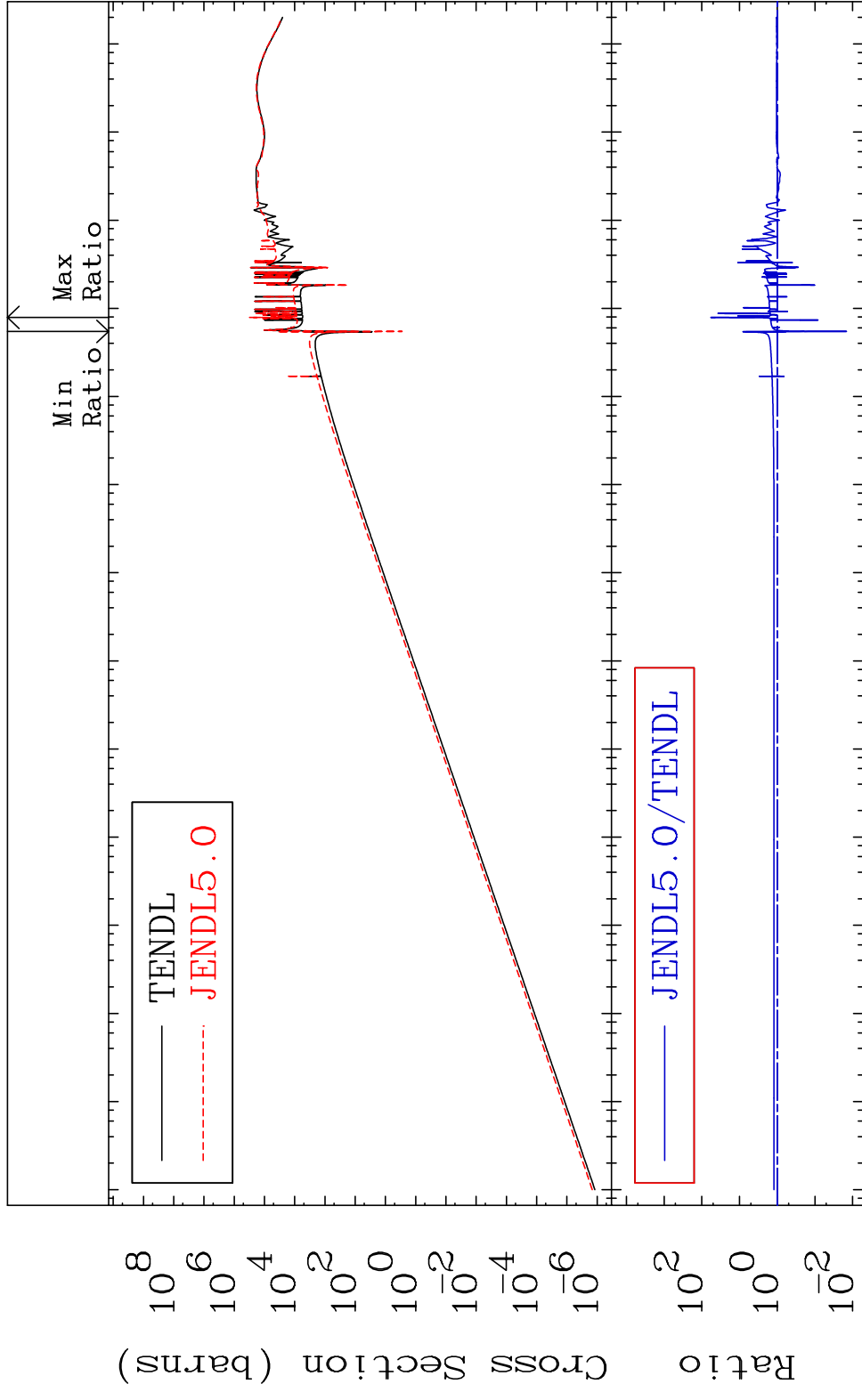


50 Incident Energy (eV) 22-Ti-50

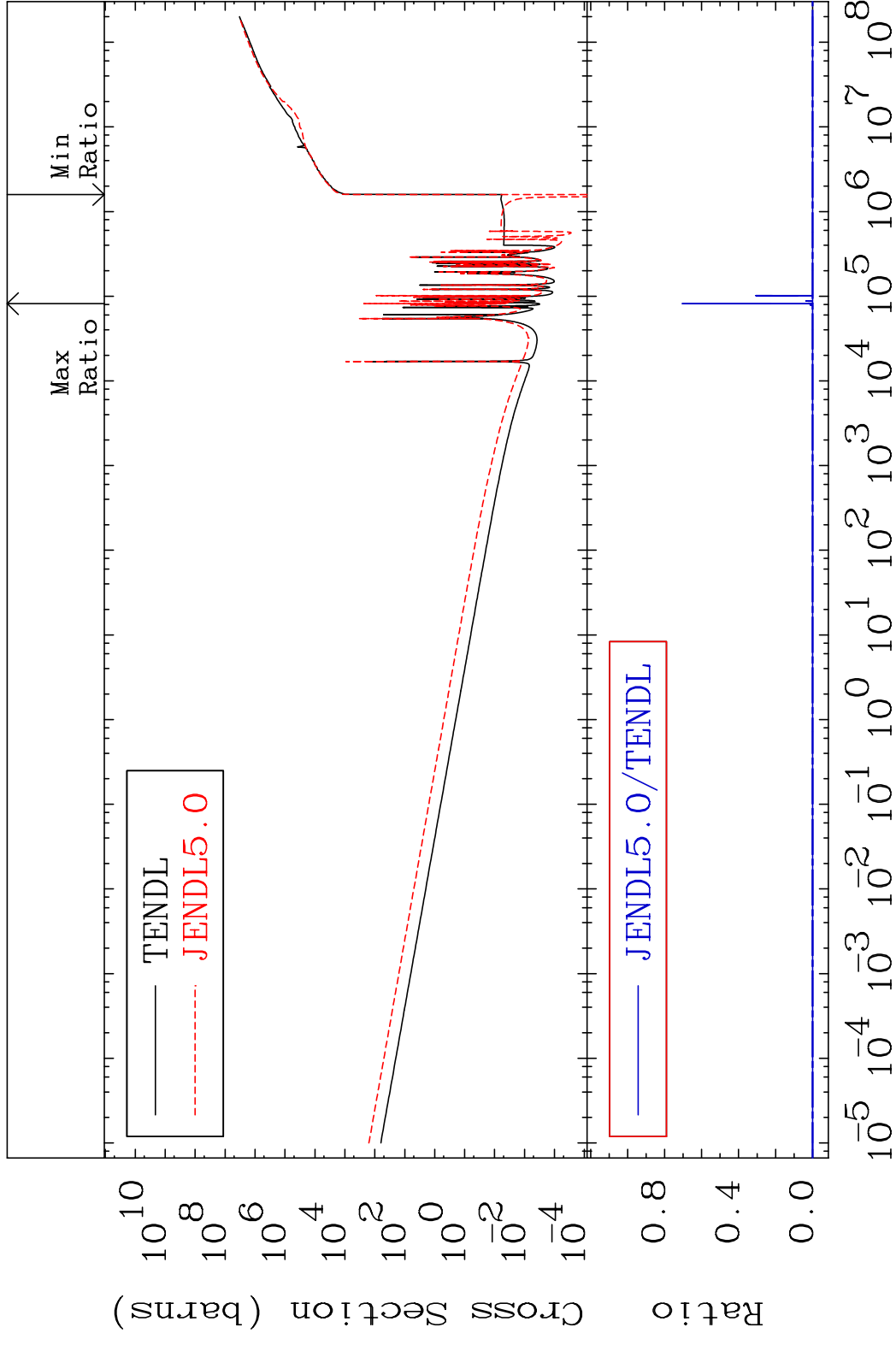
MAT 2237

Kerma elastic  
Cross Section -98.53 To 5708. %

22-Ti-50

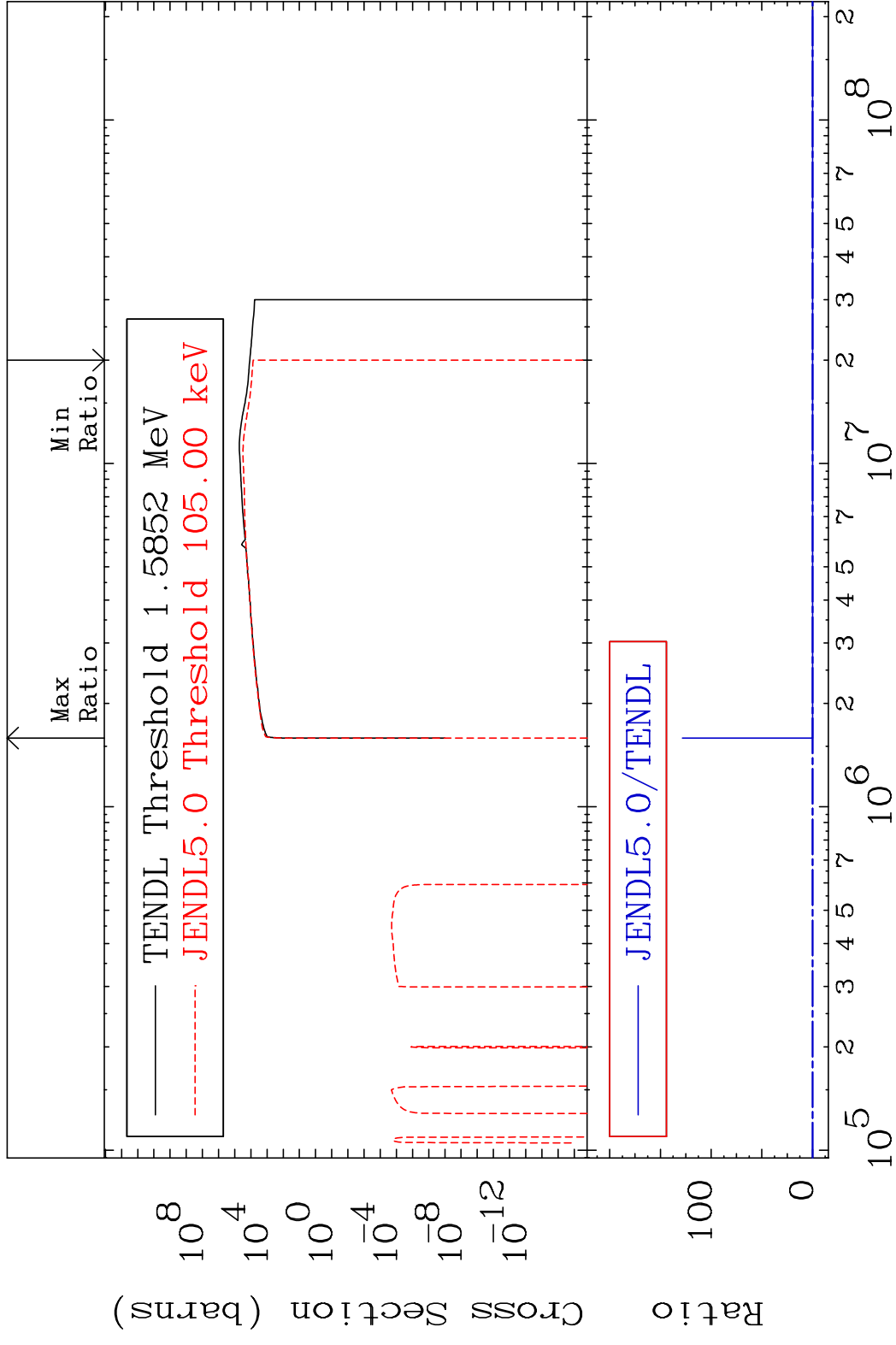


MAT 2237 Kerma non-elastic (all but mt2) 22-Ti-50  
 Cross Section -1486. To 9999. %



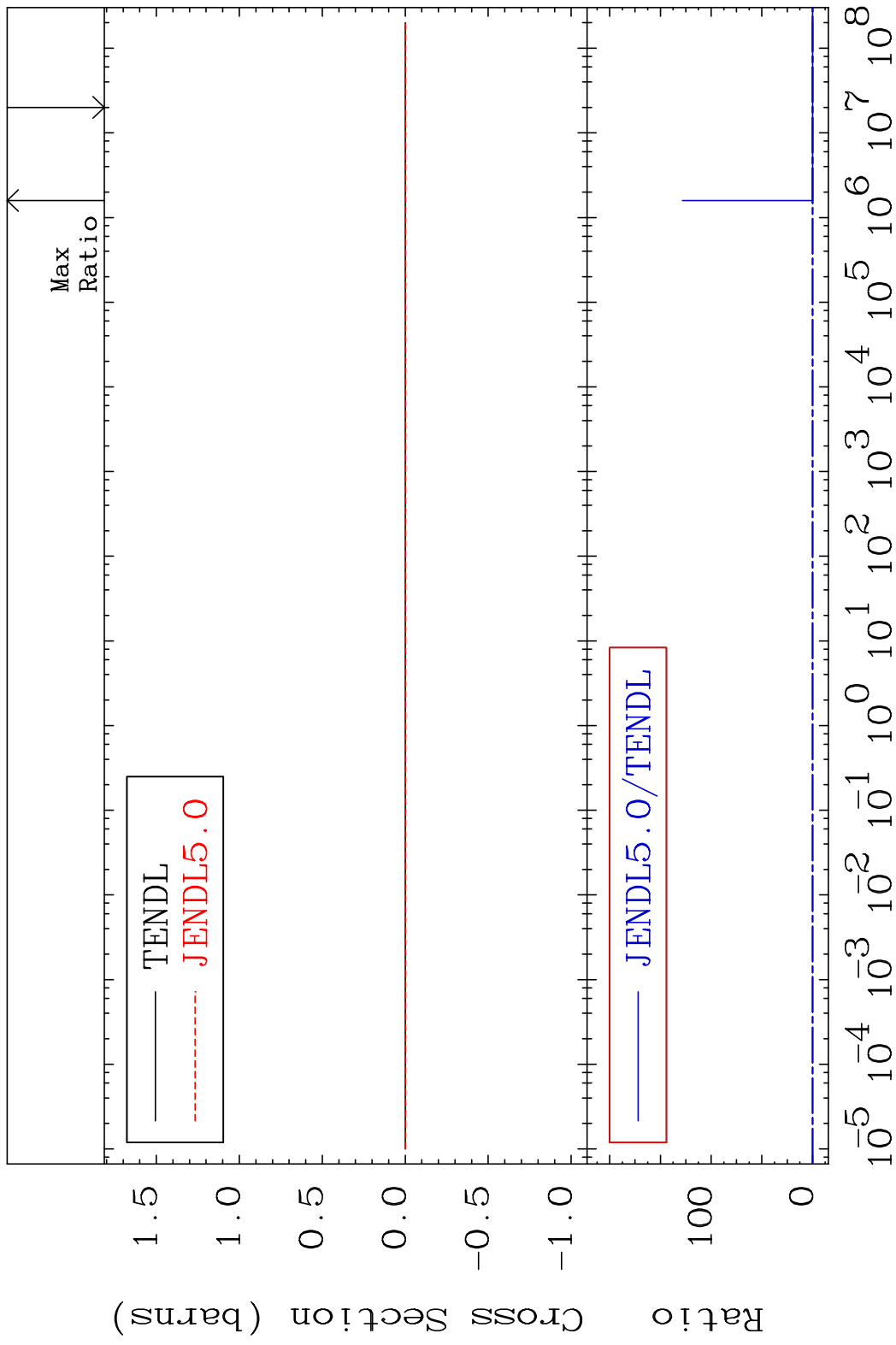
52 Incident Energy (eV) 22-Ti-50

MAT 2237 Kerma inelastic (mt51-91) 22-Ti-50  
 Cross Section -100.0 To 9999. %



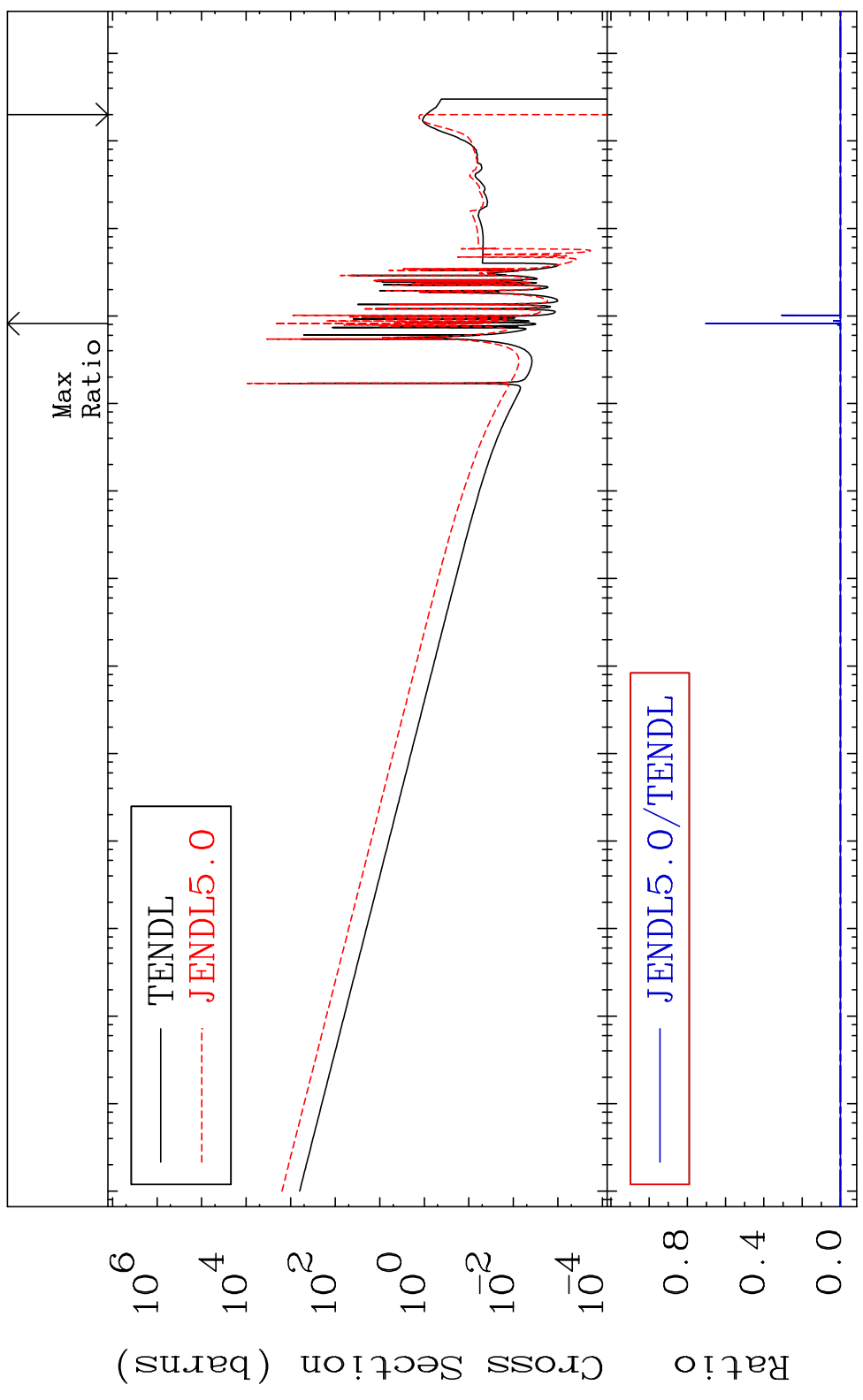
53 Incident Energy (eV) 22-Ti-50

MAT 2237 Kerma fission (mt18 or mt19-20-21-38) 22-Ti-50  
 Cross Section -100.0 To 9999. %



MAT 2237

Kerma capture (mt102) 22-Ti-50  
Cross Section -100.0 To 9999. %

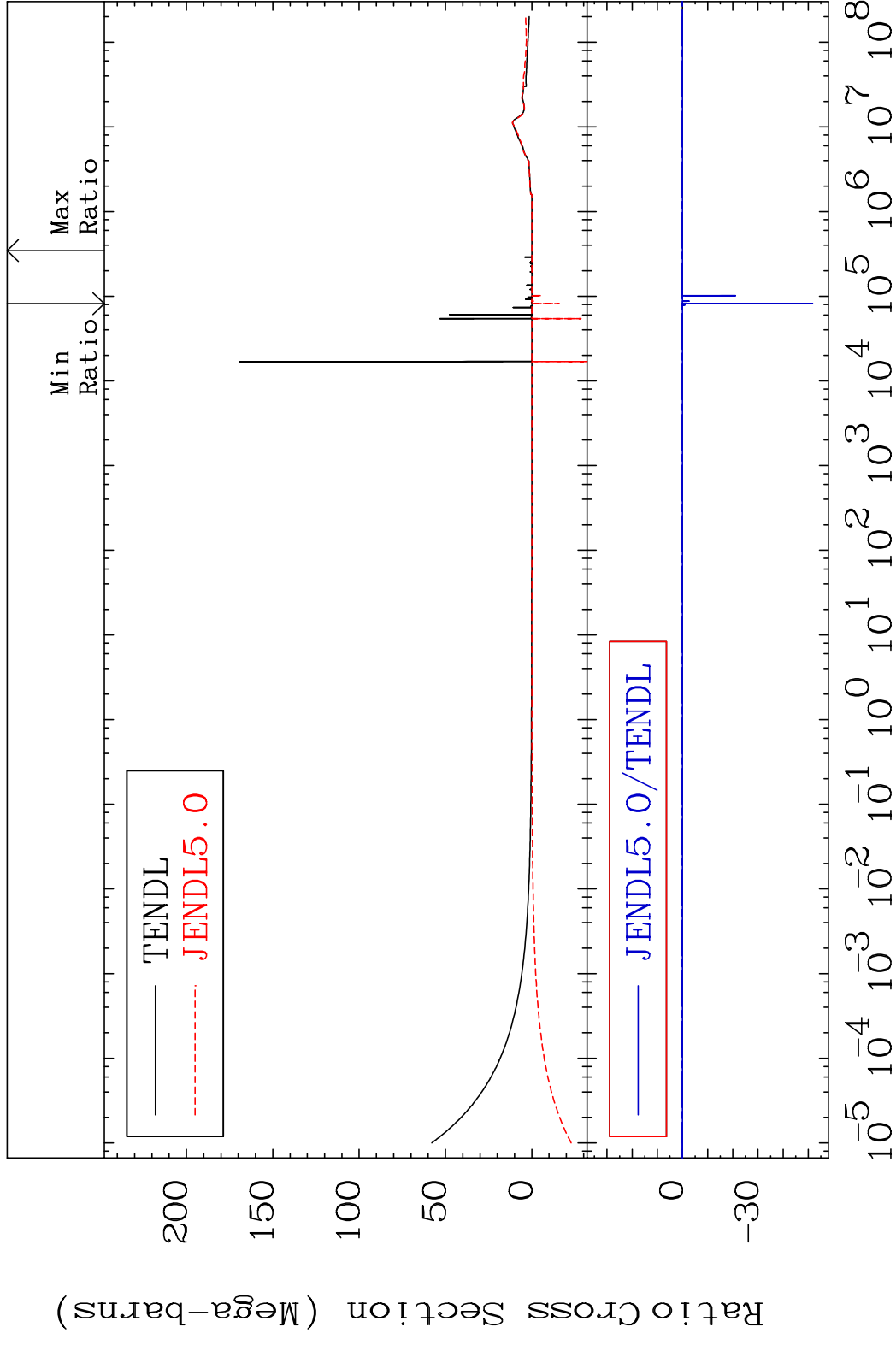


55

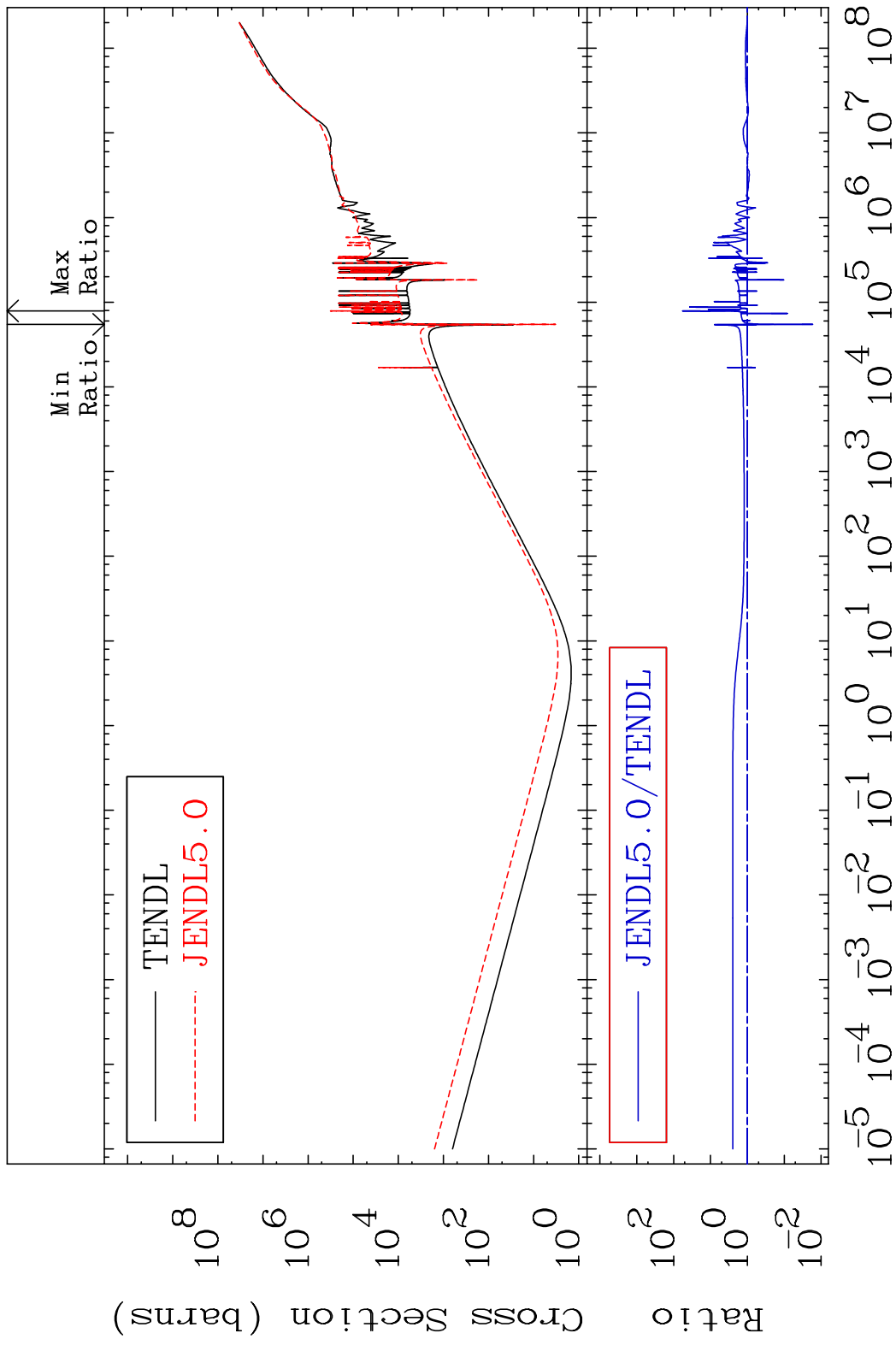
Incident Energy (eV) 22-Ti-50



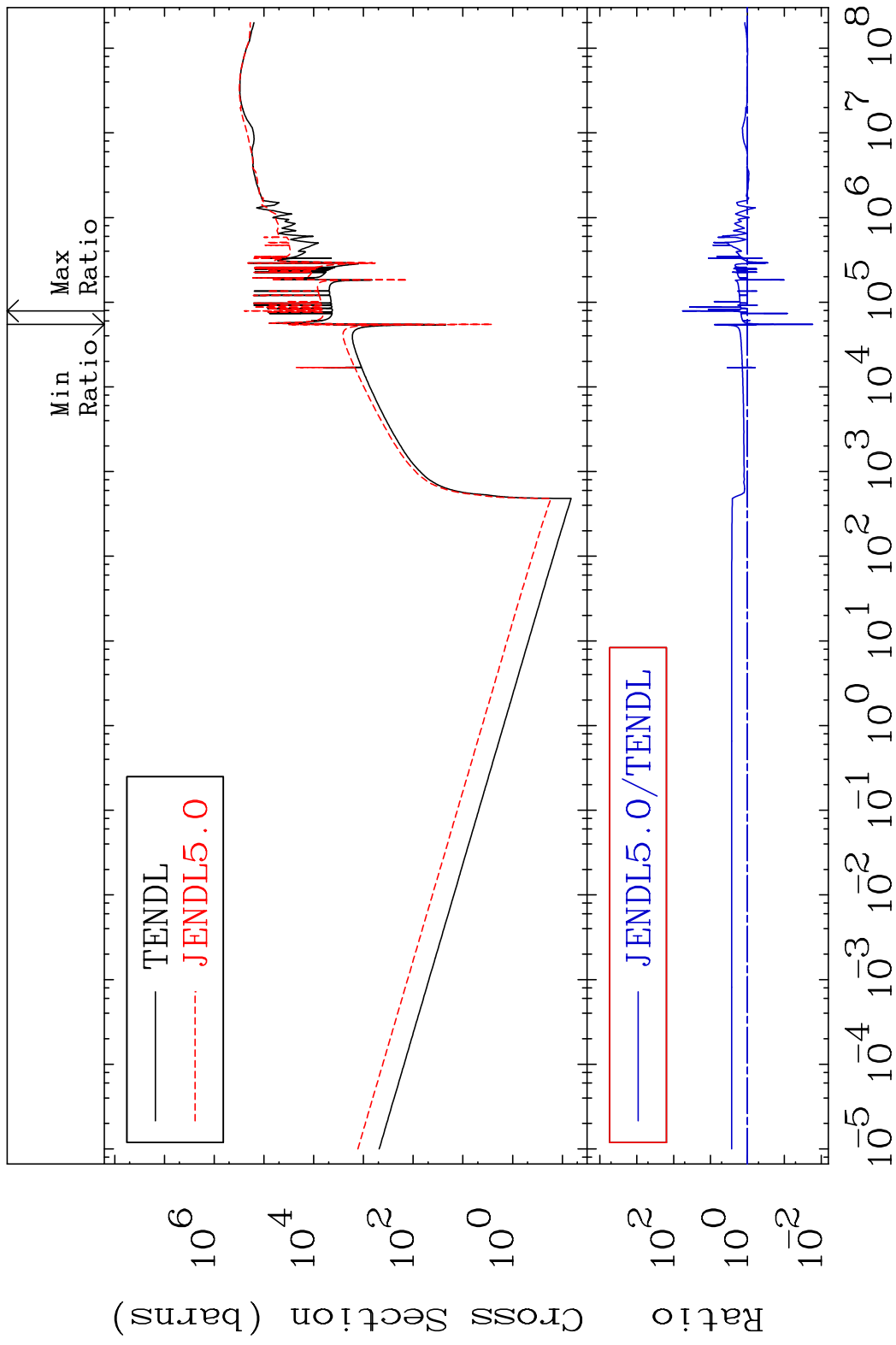
MAT 2237 Total photon (eV-barns) 22-Ti-50  
 Cross Section -9999. To 5335. %



MAT 2237 Total kinematic kerma (high limit) 22-Ti-50  
 Cross Section -98.29 To 5709. %



MAT 2237      Dpa total (eV-barns)      22-Ti-50  
 Cross Section      -98.28 To 5709. %



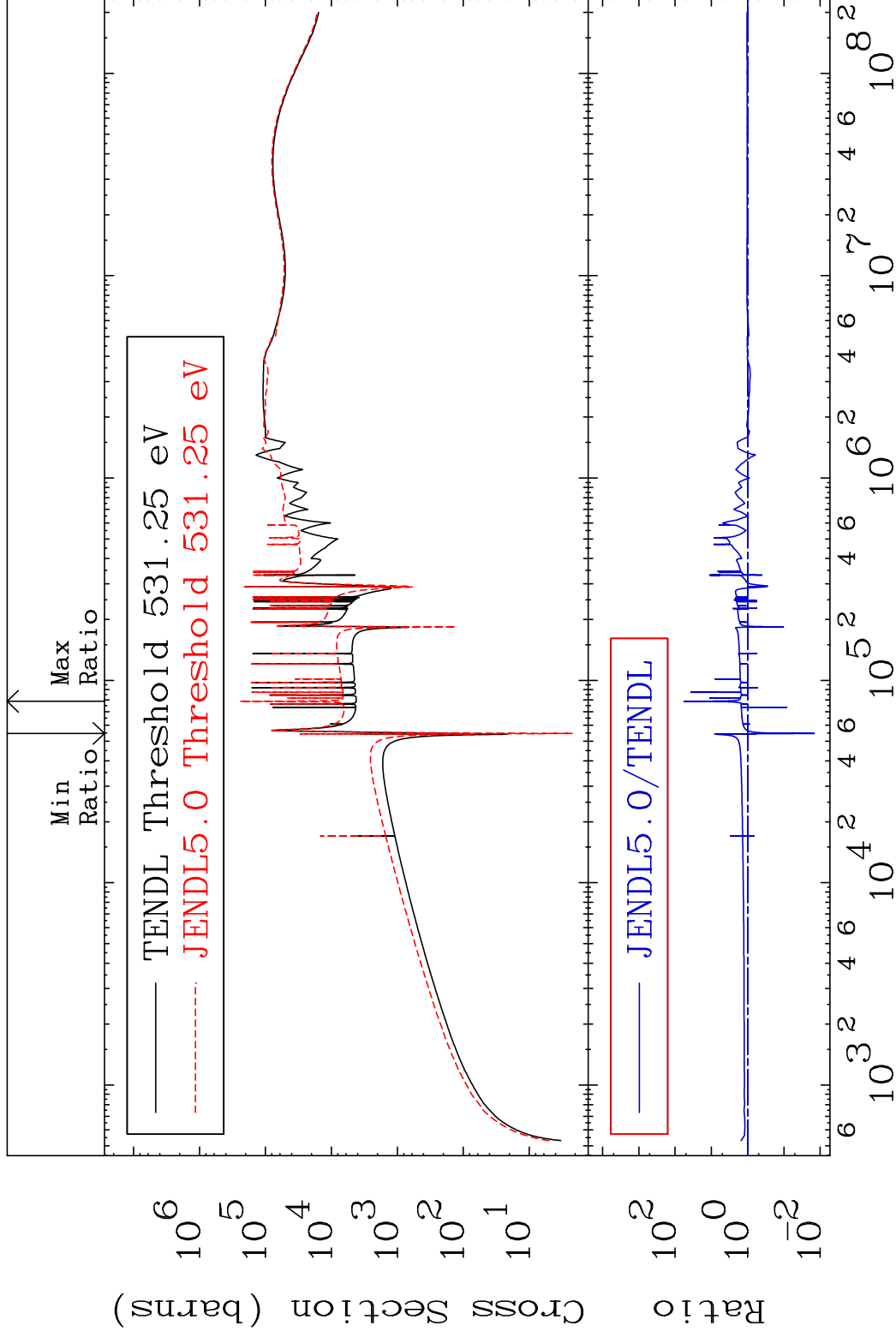
58      Incident Energy (eV)      22-Ti-50

MAT 2237

Dpa elastic (mt2)

22-Ti-50

Cross Section -98.53 To 5707. %



59

Incident Energy (eV)

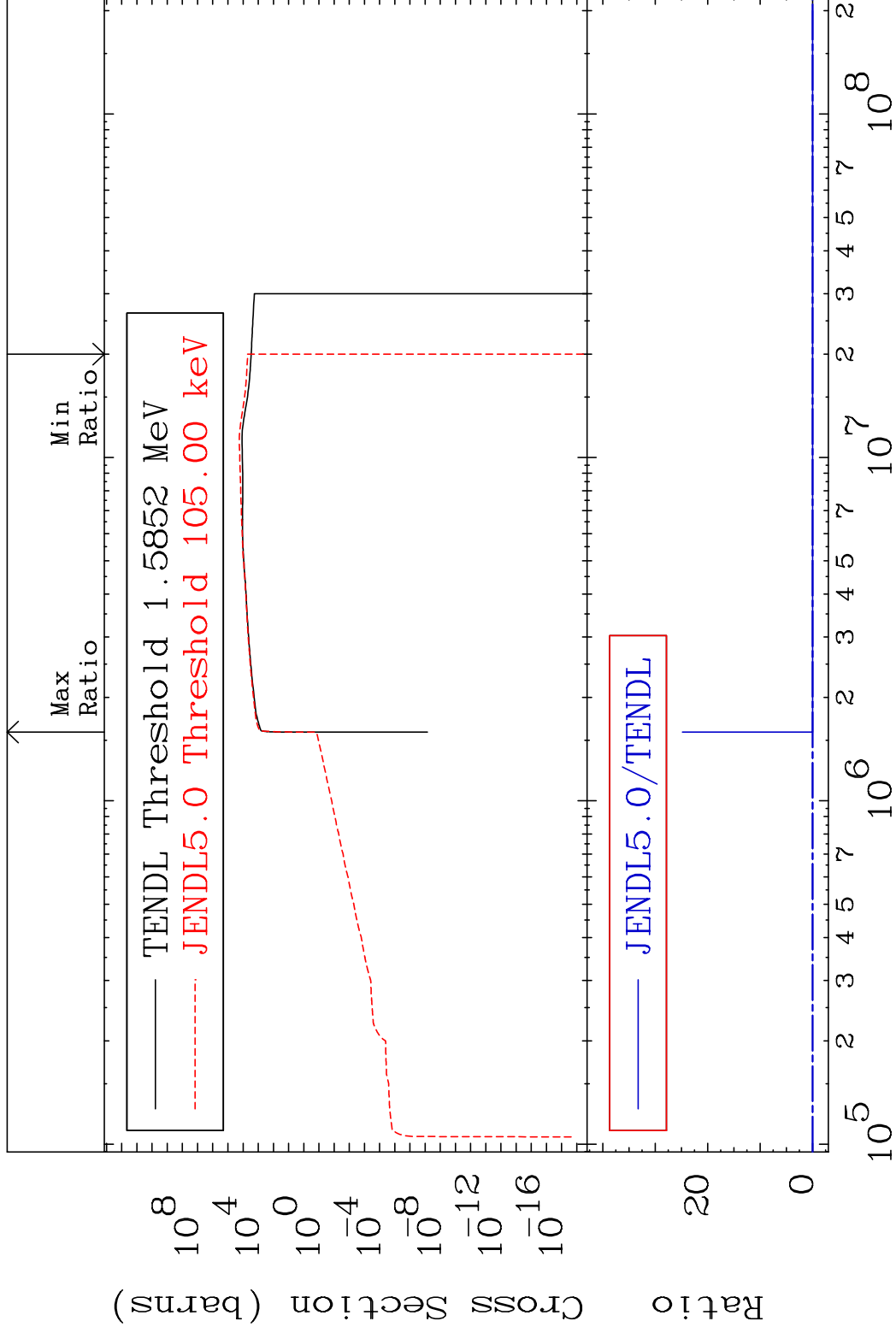
22-Ti-50

MAT 2237

Dpa inelastic (mt51-91)

22-Ti-50

Cross Section -100.0 To 9999. %

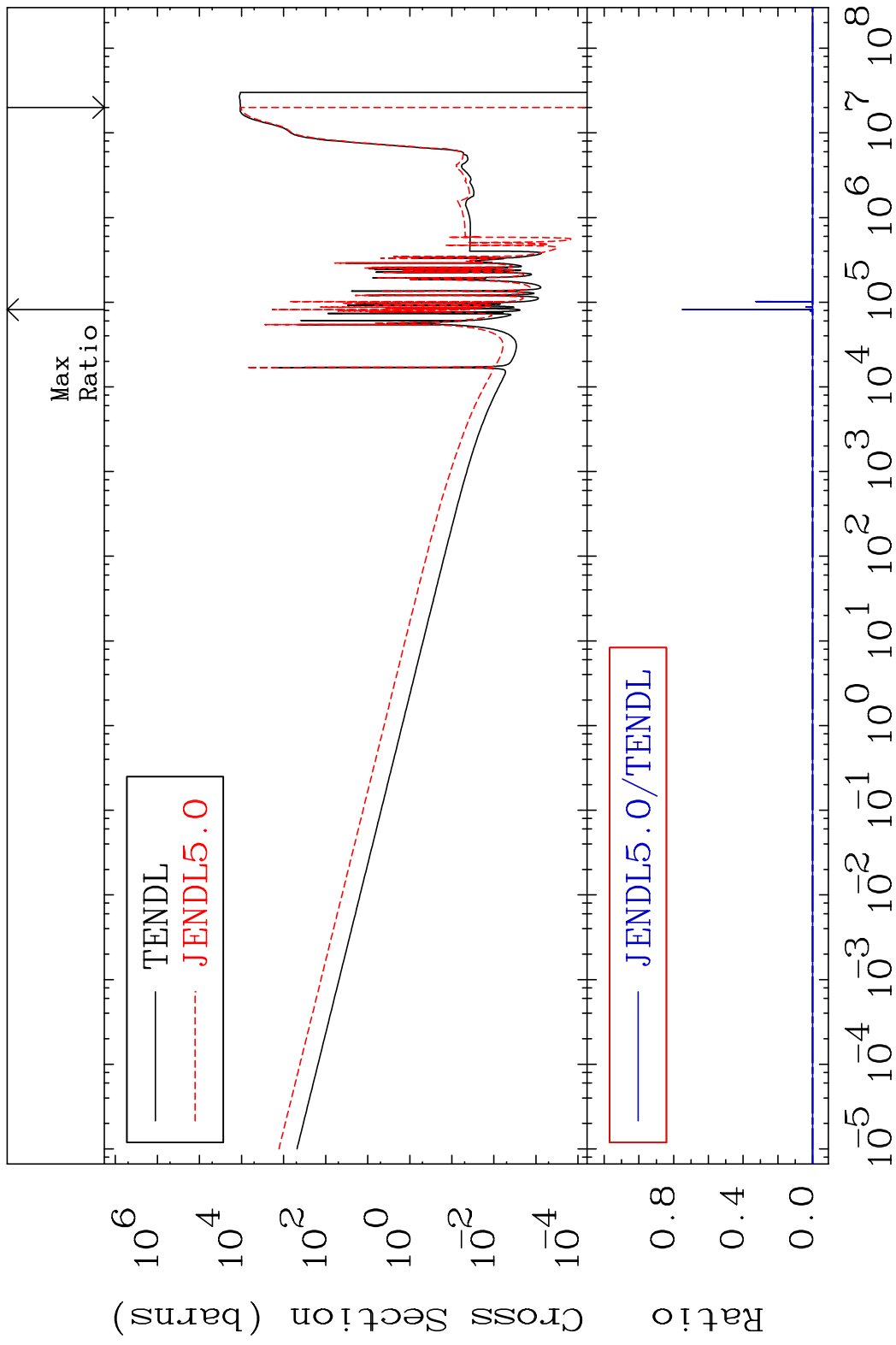


60

Incident Energy (eV)

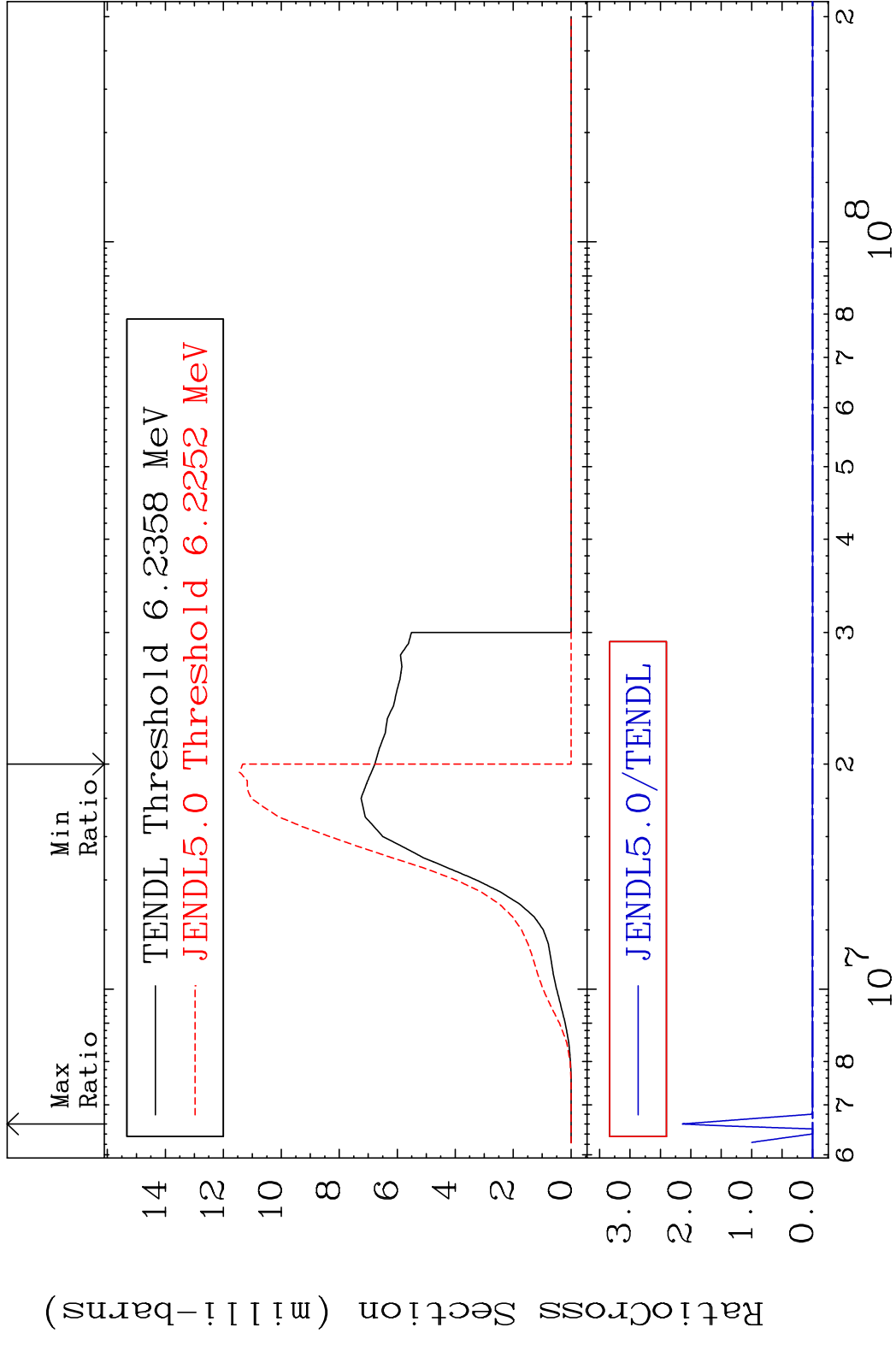
22-Ti-50

MAT 2237 Dpa disappearance (mt102 -120) 22-Ti-50  
 Cross Section -100.0 To 9999. %

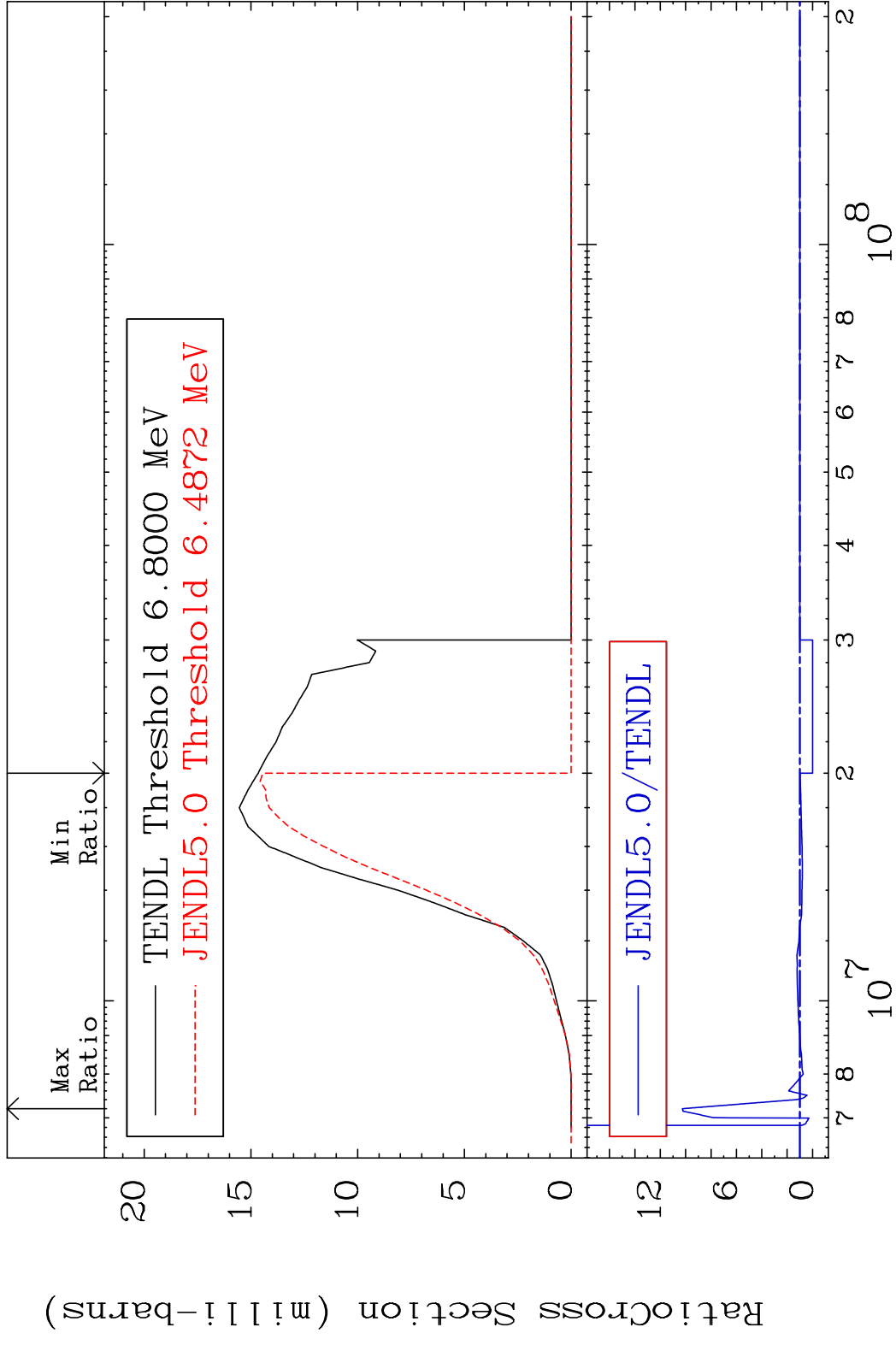


61 Incident Energy (eV) 22-Ti-50

MAT 2237 (n,p):21-Sc-50g 22-Ti-50  
 Radionuclide Production Cross Section Ratio 9999. %

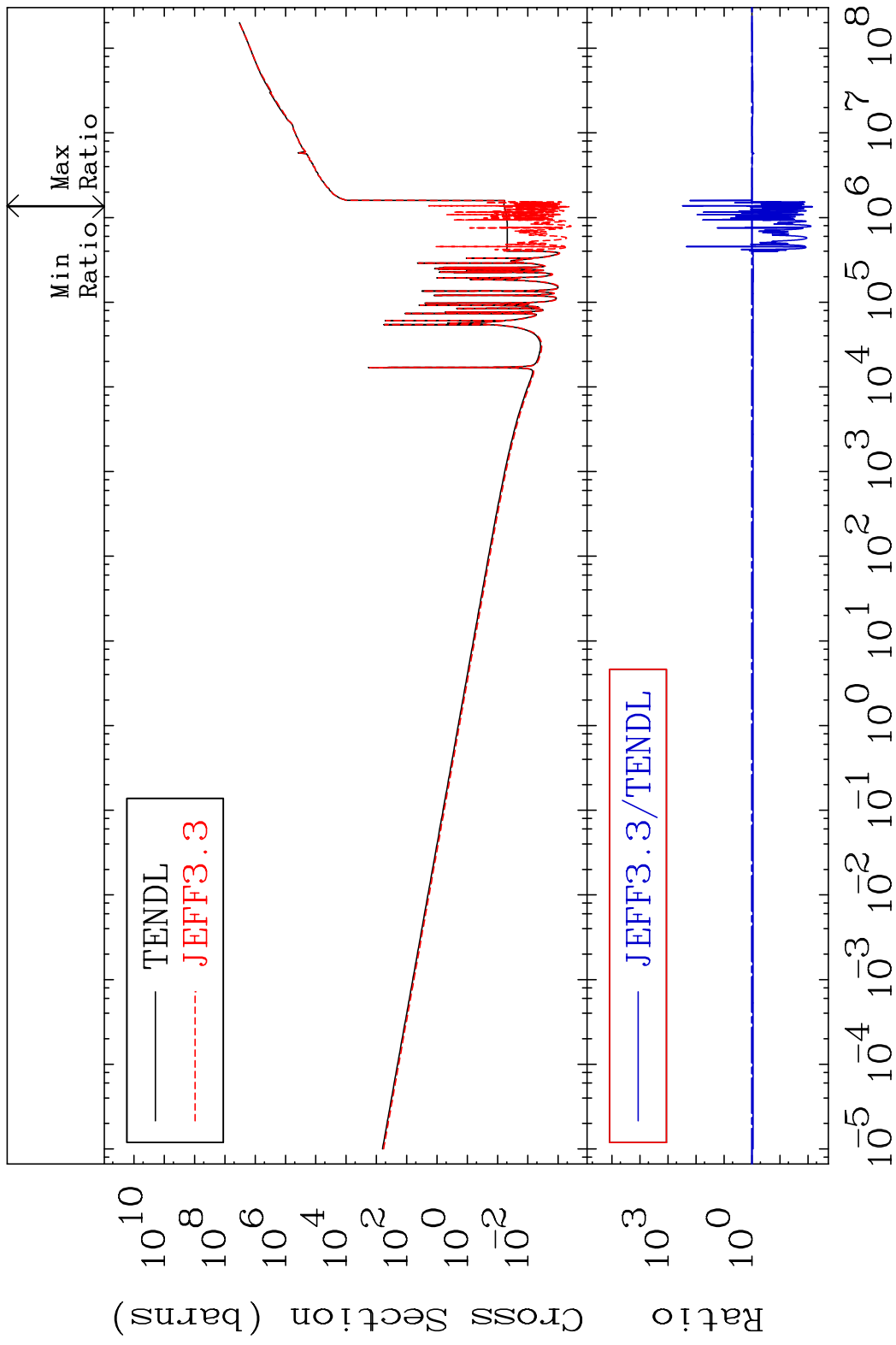


MAT 2237 (n,p):21-Sc-50m1 22-Ti-50  
 Radionuclide Production Cross Section Ratio 925.9 %



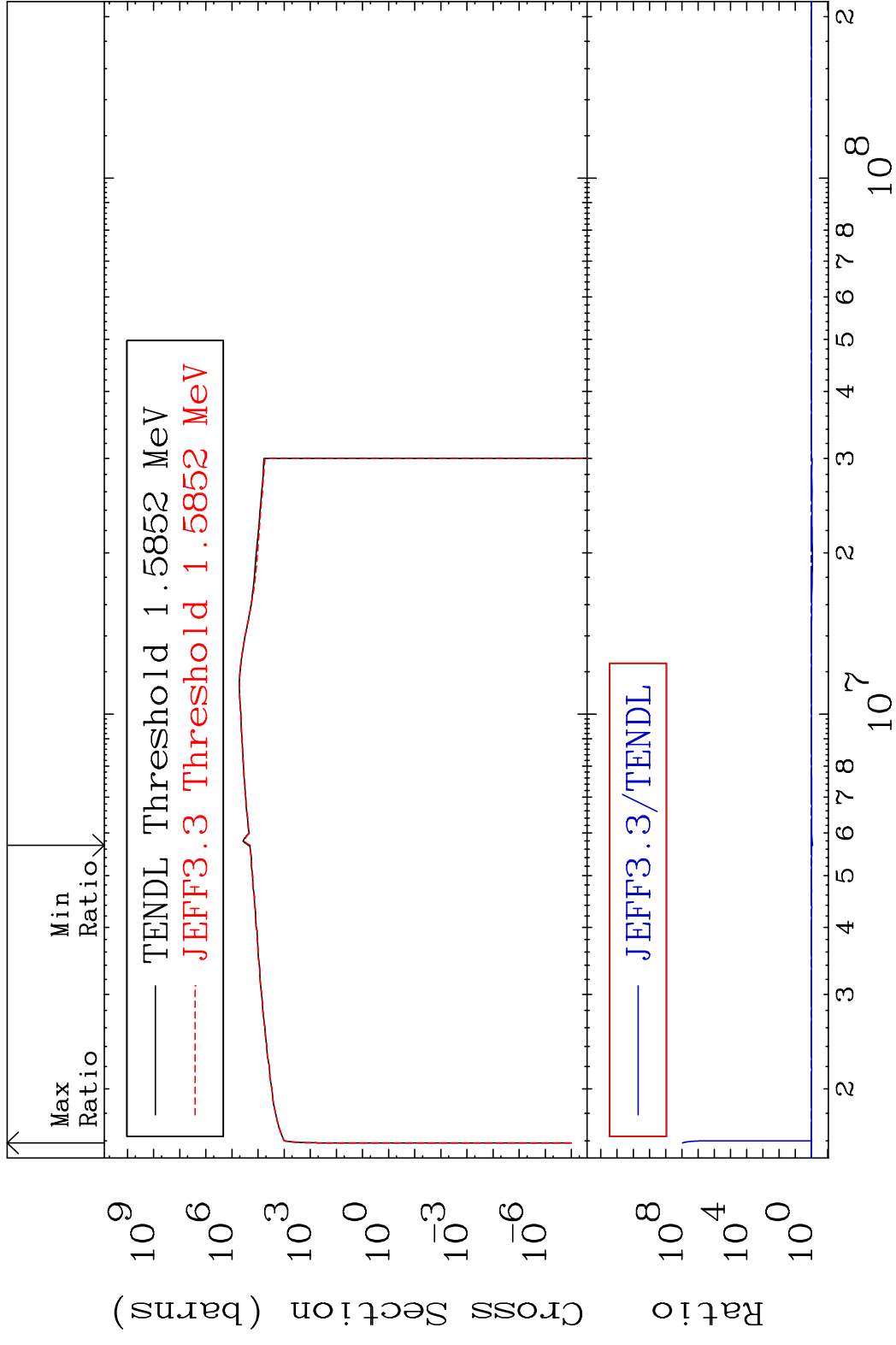


MAT 2237 Kerma non-elastic (all but mt2) 22-Ti-50  
 Cross Section -99.31 To 9999. %

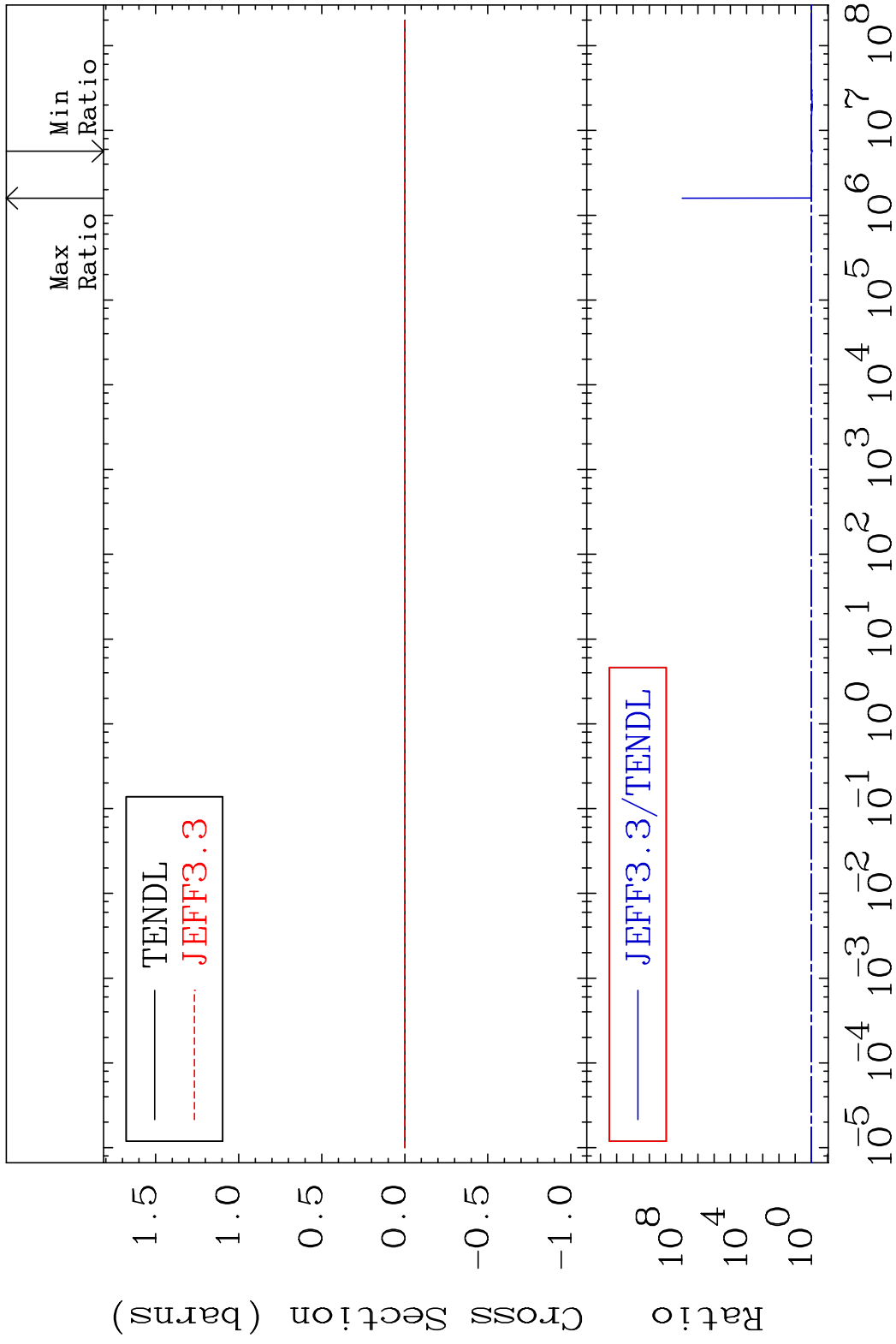


64 Incident Energy (eV) 22-Ti-50

MAT 2237 Kerma inelastic (mt51-91) 22-Ti-50  
 Cross Section -13.55 To 9999. %

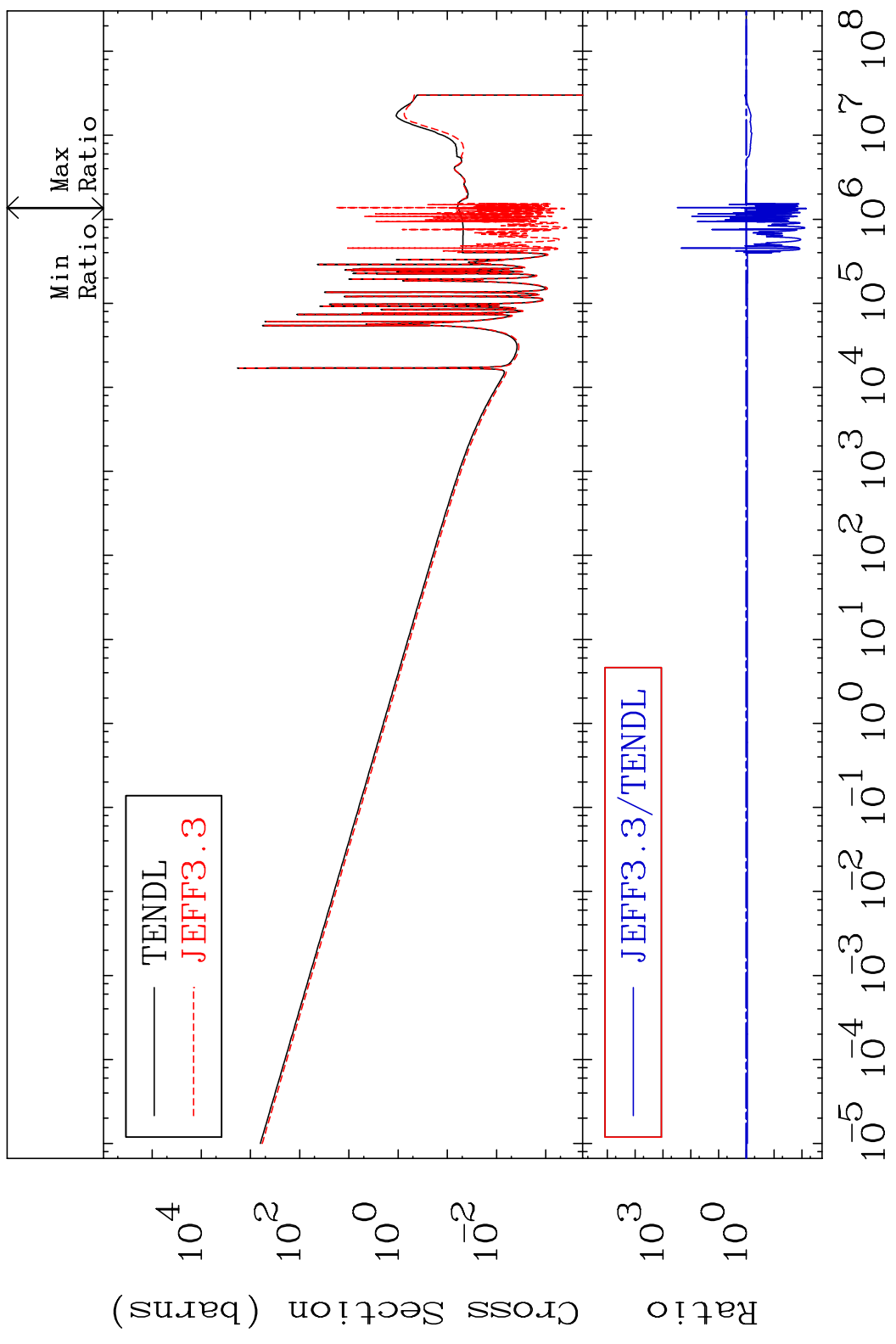


MAT 2237 Kerma fission (mt18 or mt19-20-21-38) 22-Ti-50  
 Cross Section -13.55 To 9999. %



MAT 2237

Kerma capture (mt102) 22-Ti-50  
Cross Section -99.31 To 9999. %



67

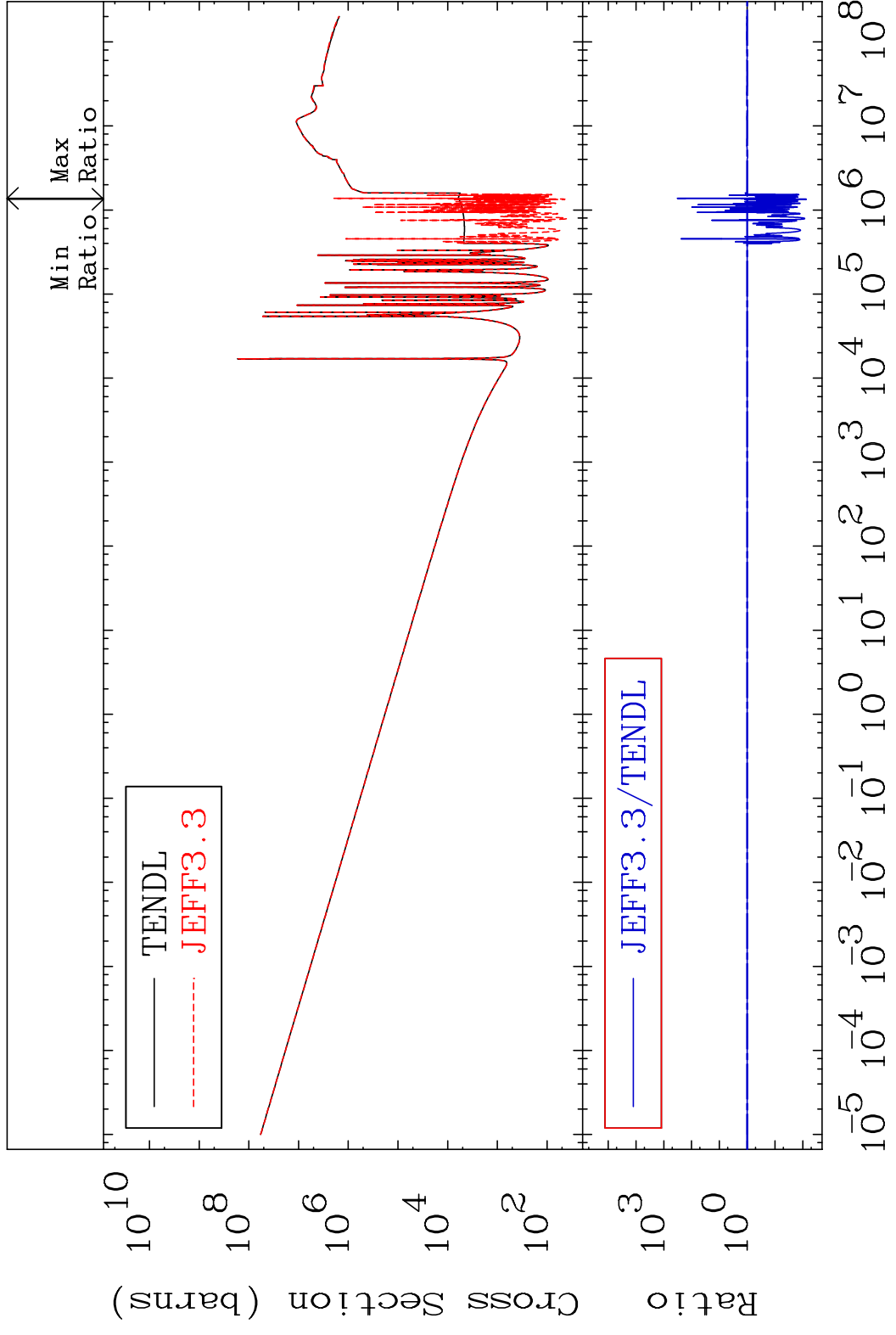
Incident Energy (eV) 22-Ti-50

MAT 2237

Total photon (eV-barns)

22-Ti-50

Cross Section -99.26 To 9999. %

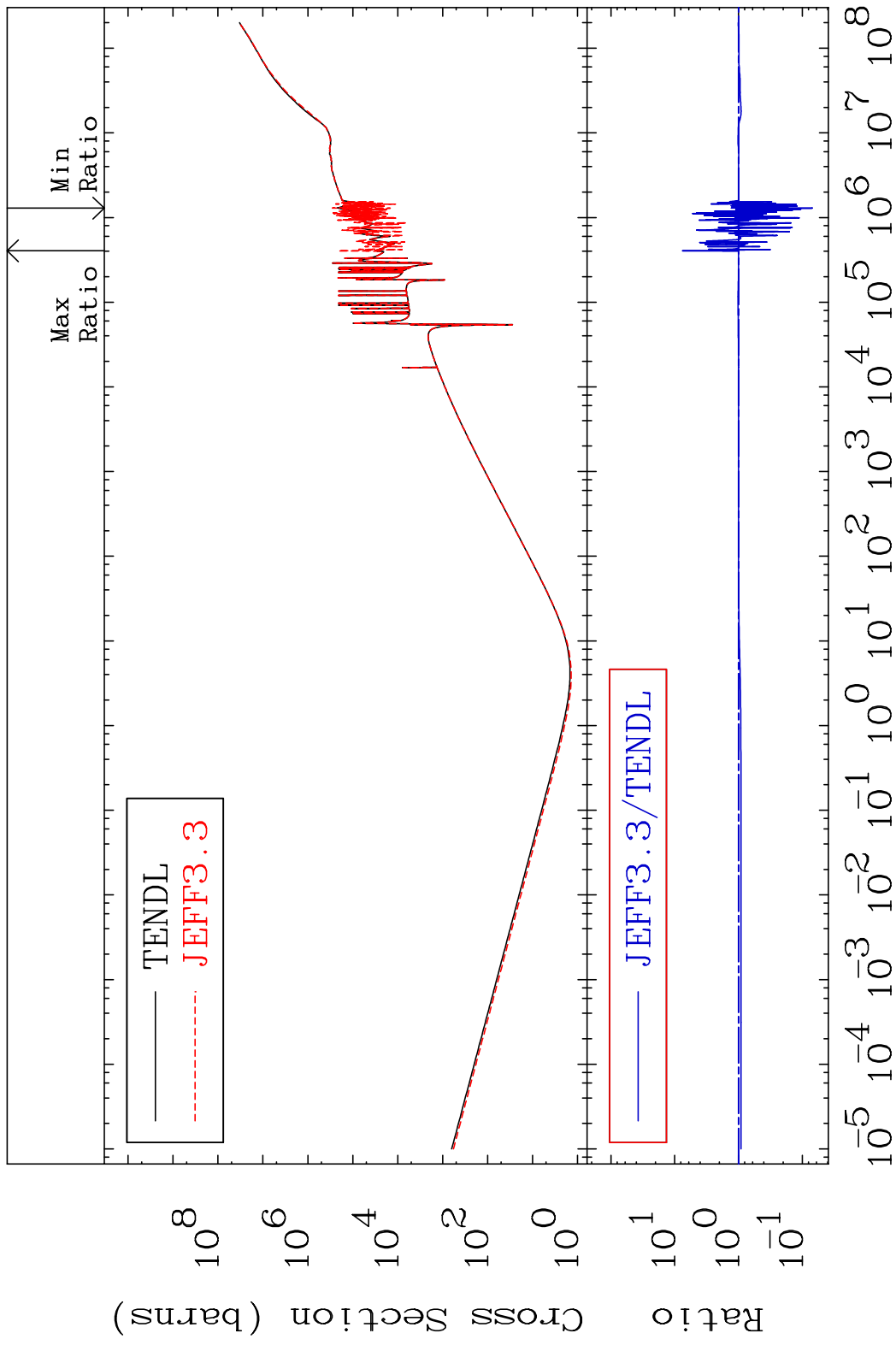


68

Incident Energy (eV)

22-Ti-50

MAT 2237 Total kinematic kerma (high limit) 22-Ti-50  
 Cross Section -93.09 To 659.1 %

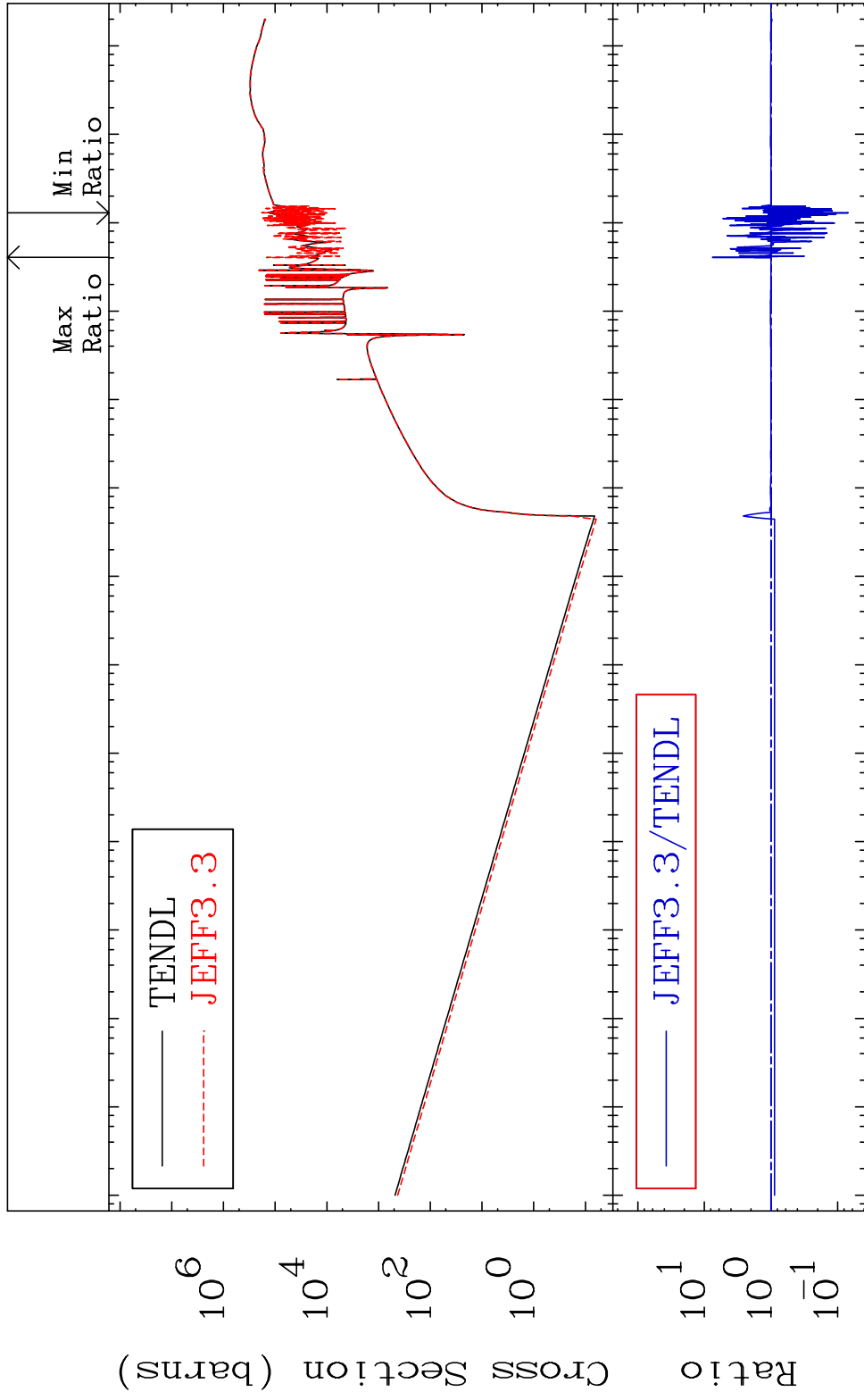


MAT 2237

Dpa total (eV-barns)

22-Ti-50

Cross Section -93.09 To 659.0 %



70

Incident Energy (eV)

22-Ti-50

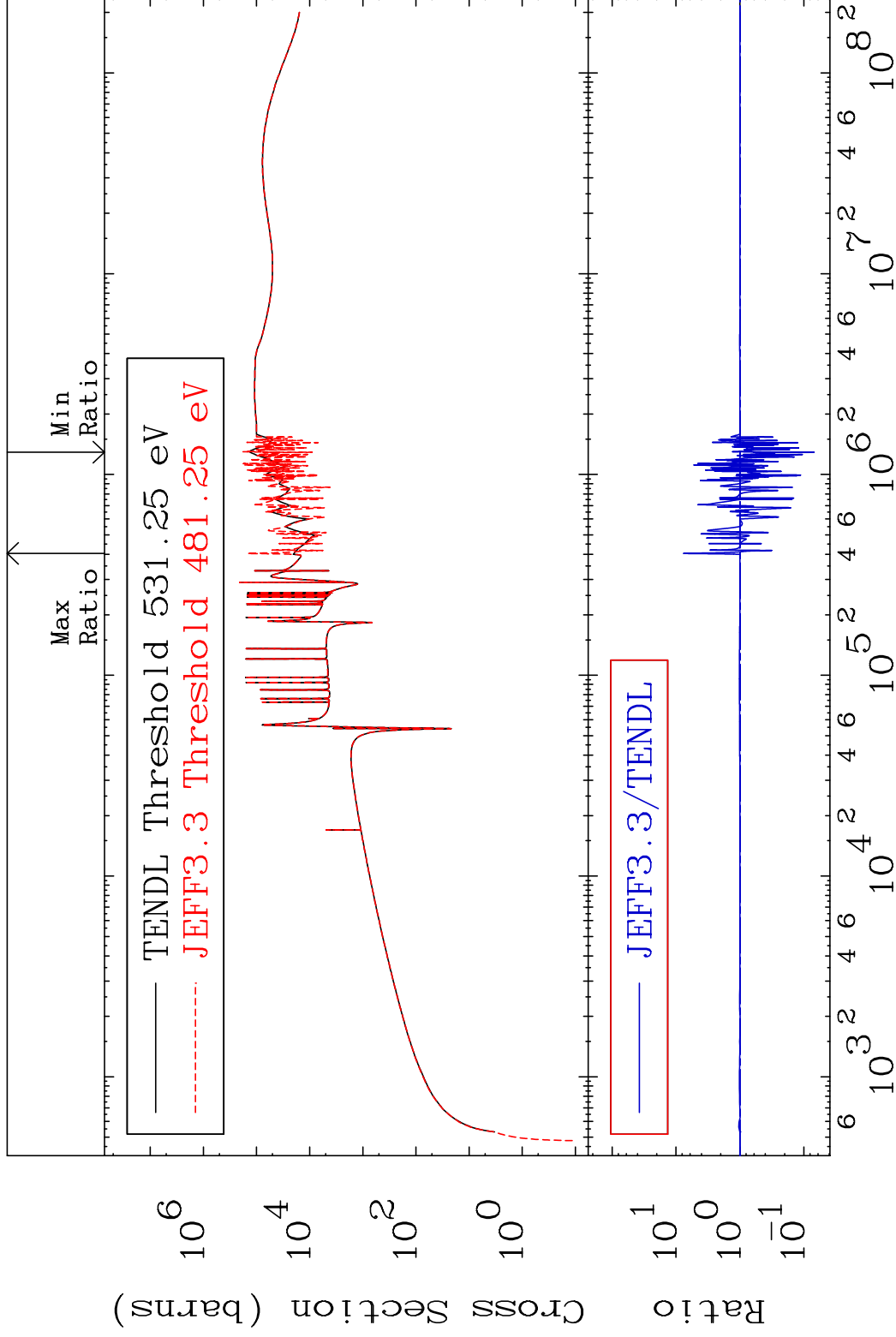
MAT 2237

Dpa elastic (mt2)

22-Ti-50

Cross Section

-93.09 To 659.0 %



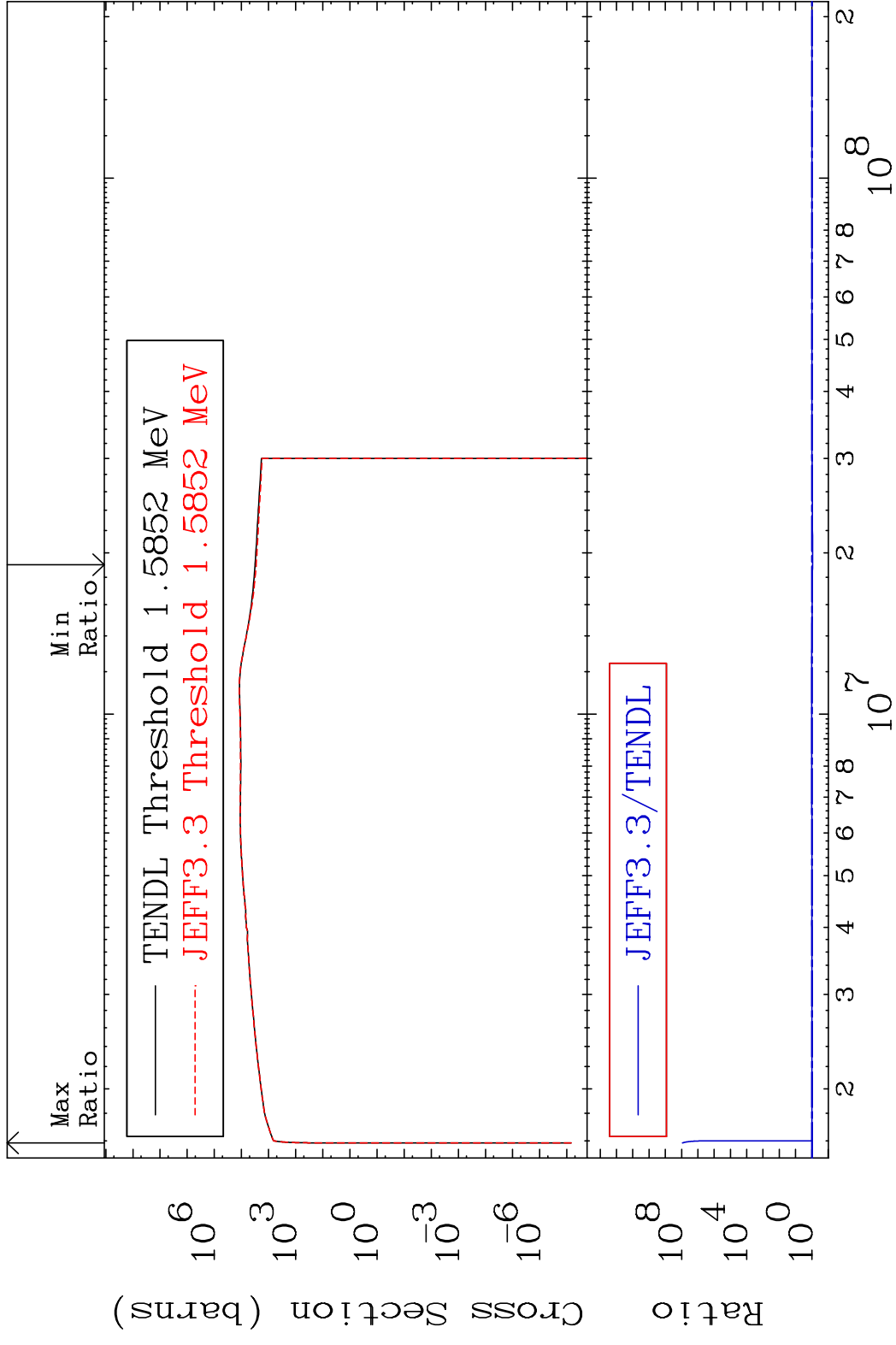
71

Incident Energy (eV)

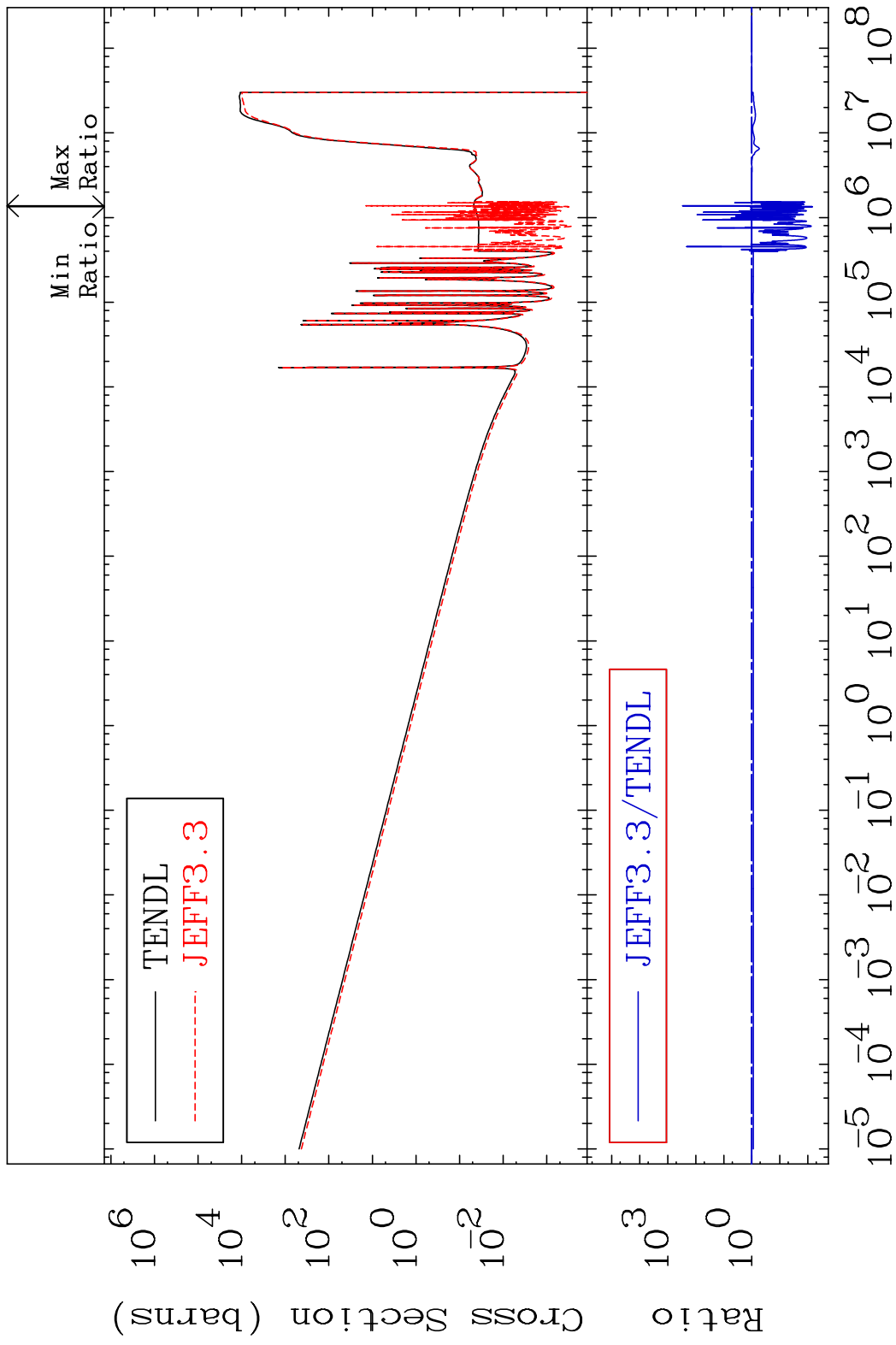
22-Ti-50



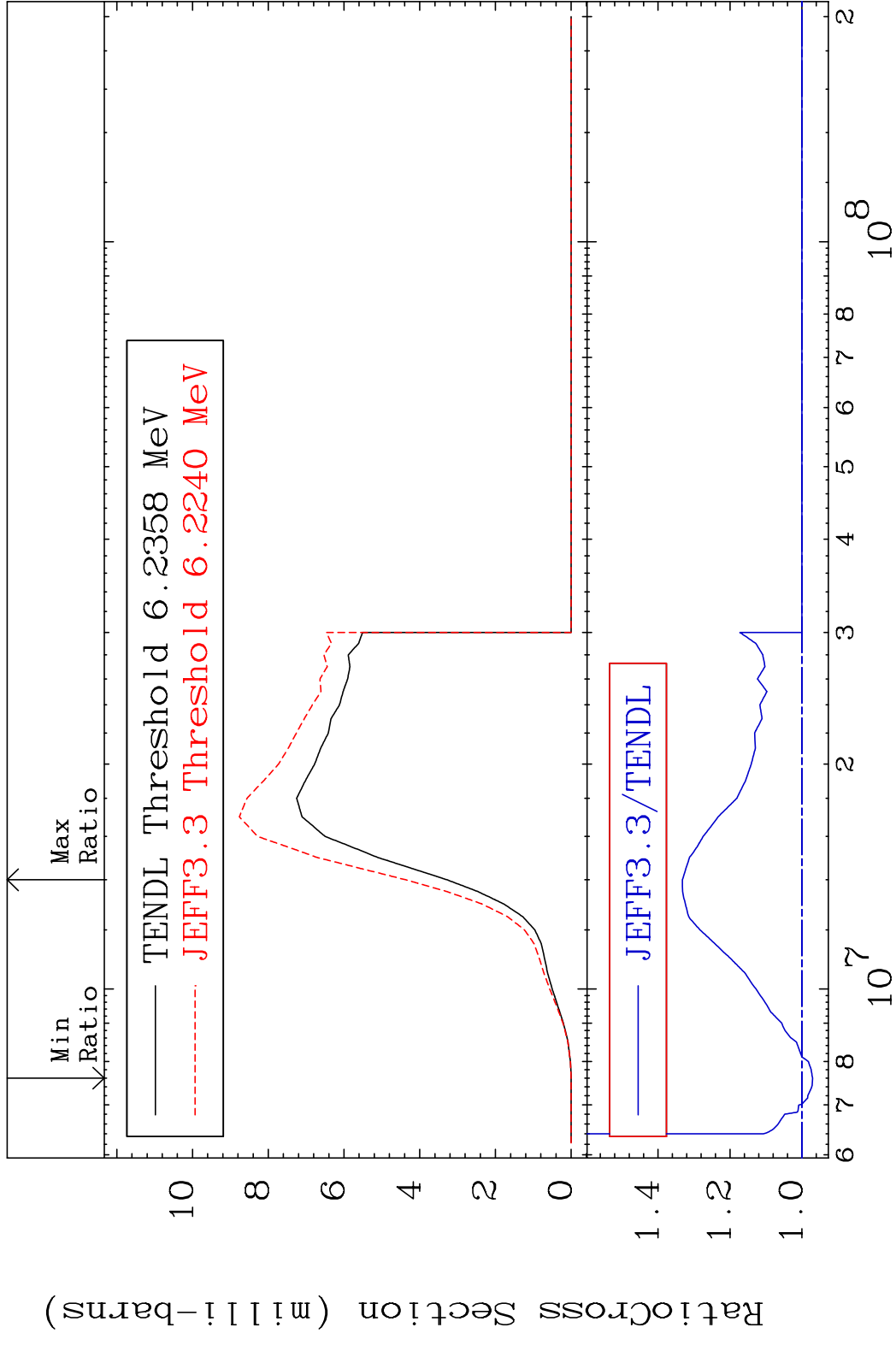
MAT 2237      Dpa inelastic (mt51-91)      22-Ti-50  
 Cross Section    -9.690 To 9999. %



MAT 2237 Dpa disappearance (mt102 -120) 22-Ti-50  
 Cross Section -99.32 To 9999. %



MAT 2237 (n,p):21-Sc-50g 22-Ti-50  
 Radionuclide Production Cross Section 33.22 %



MAT 2237 (n,p):21-Sc-50m1 22-Ti-50  
 Radionuclide Production Cross Section 0.000 %

