

Program Complot  
(Version 2018-1)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550

U.S.A.

Tele: 925-443-1911

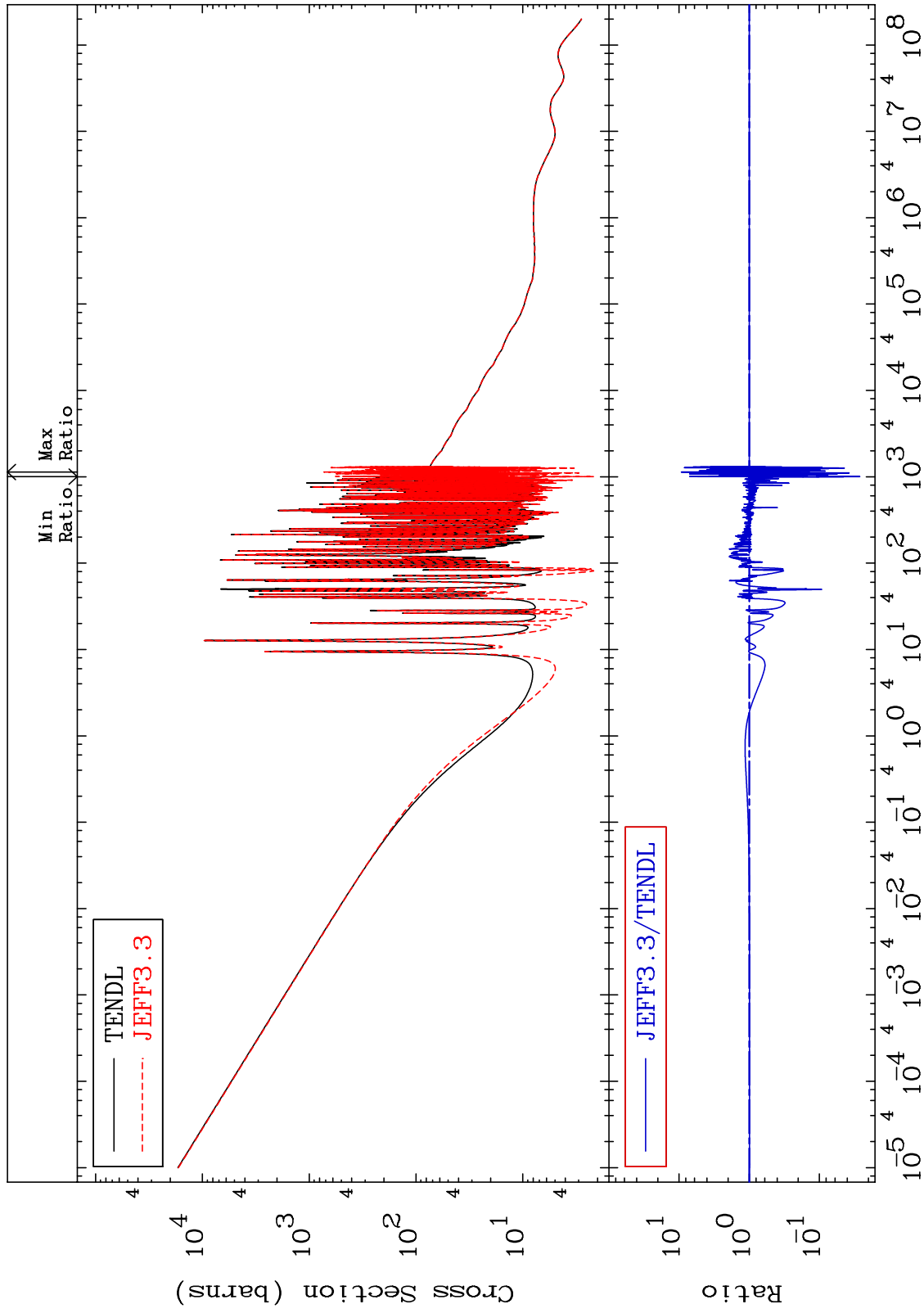
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 7634

Total  
Cross Section

76-0s-187  
-97.34 To 828.8 %



1

Incident Energy (eV)

76-0s-187

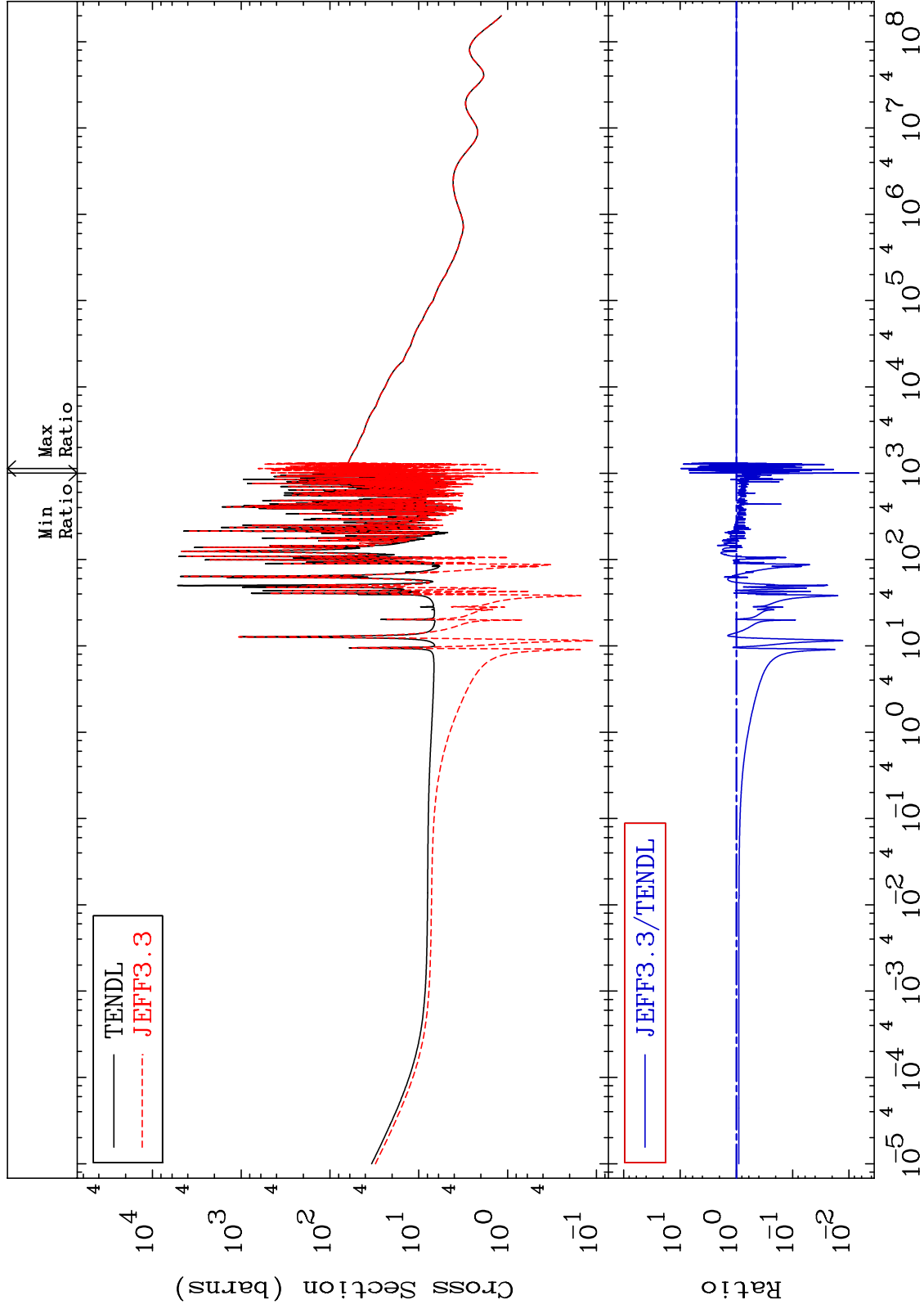
MAT 7634

Elastic

76-0s-187

Cross Section

-99.34 To 876.2 %



2

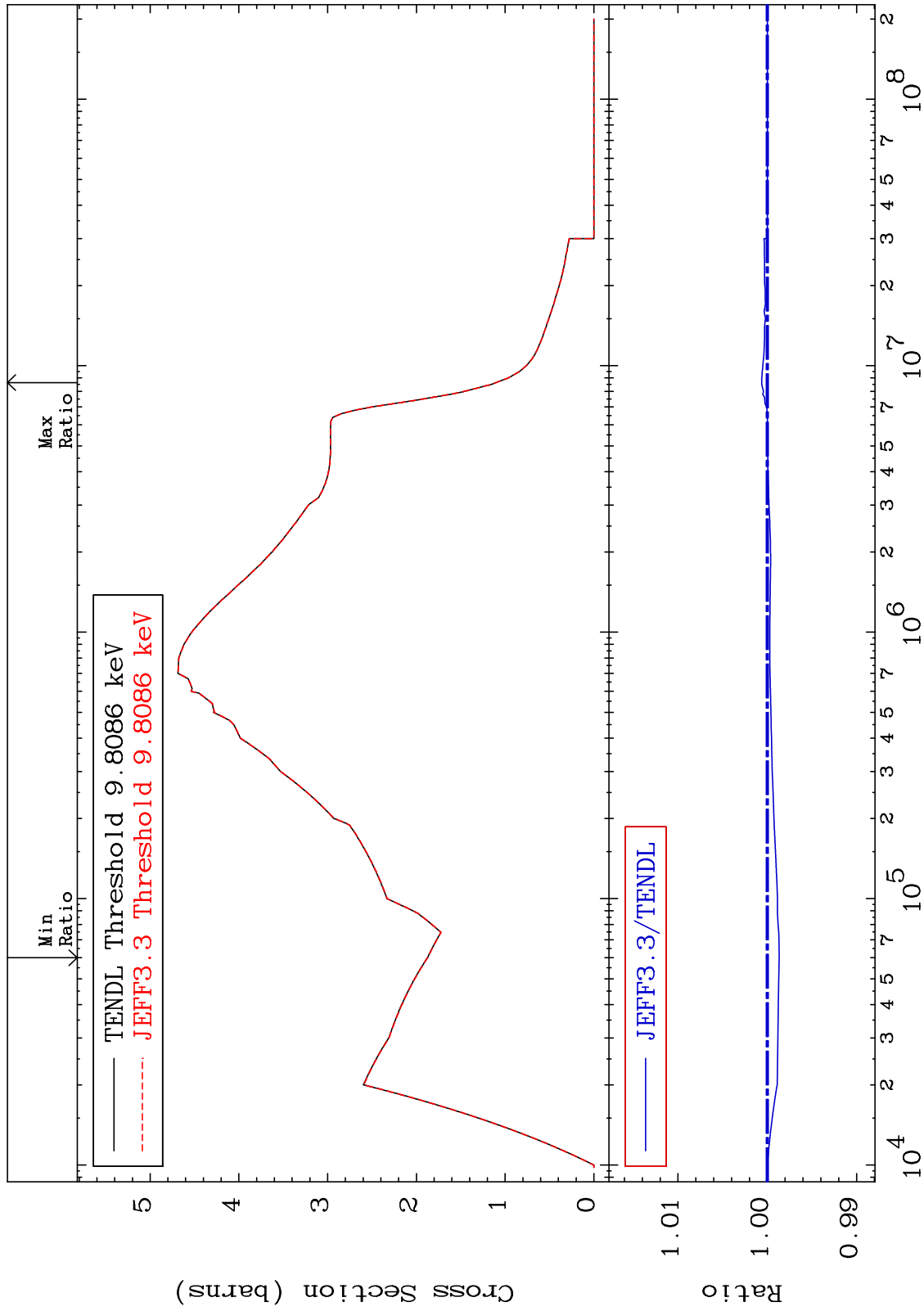
Incident Energy (eV)

76-0s-187

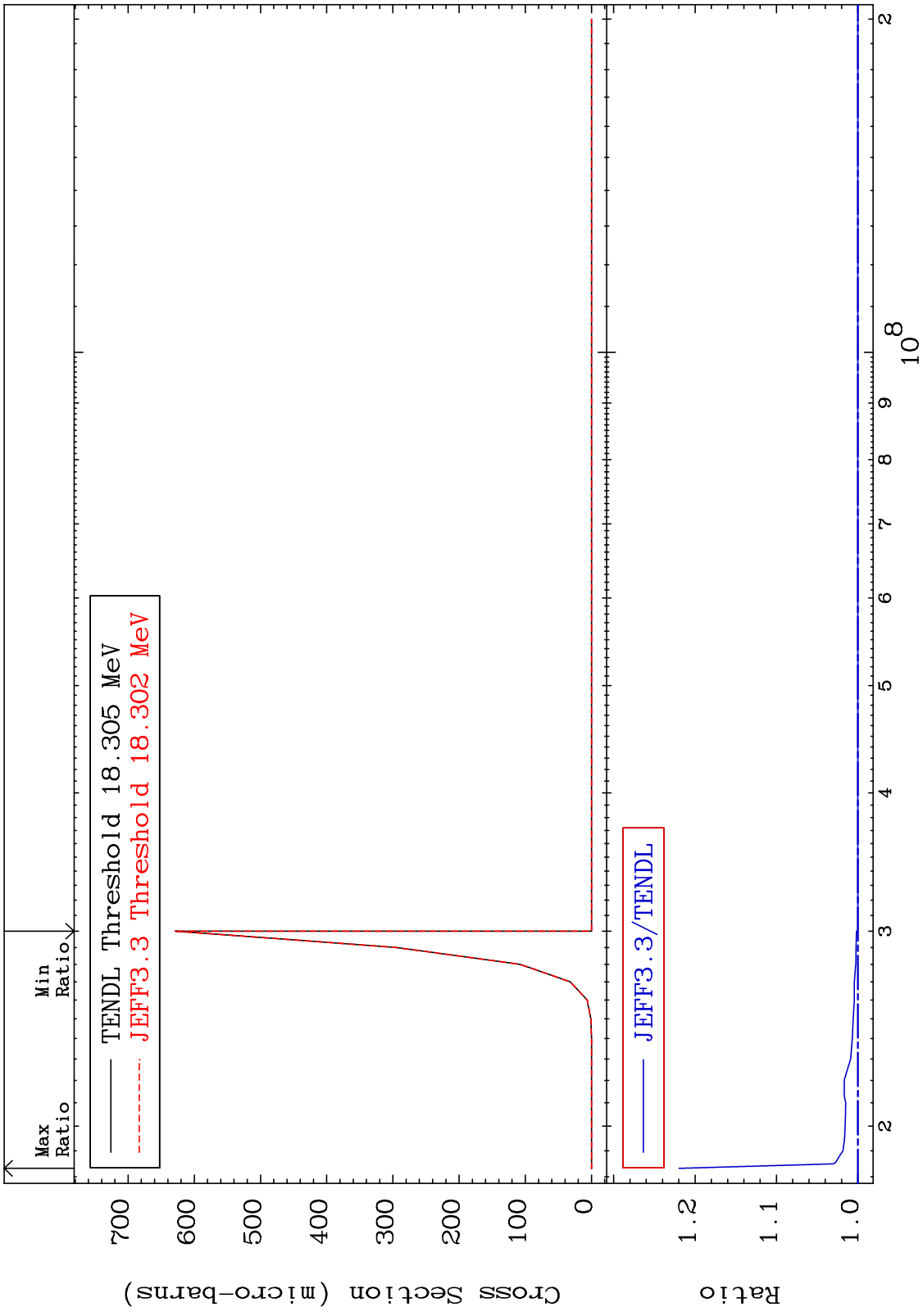
MAT 7634

Inelastic  
Cross Section

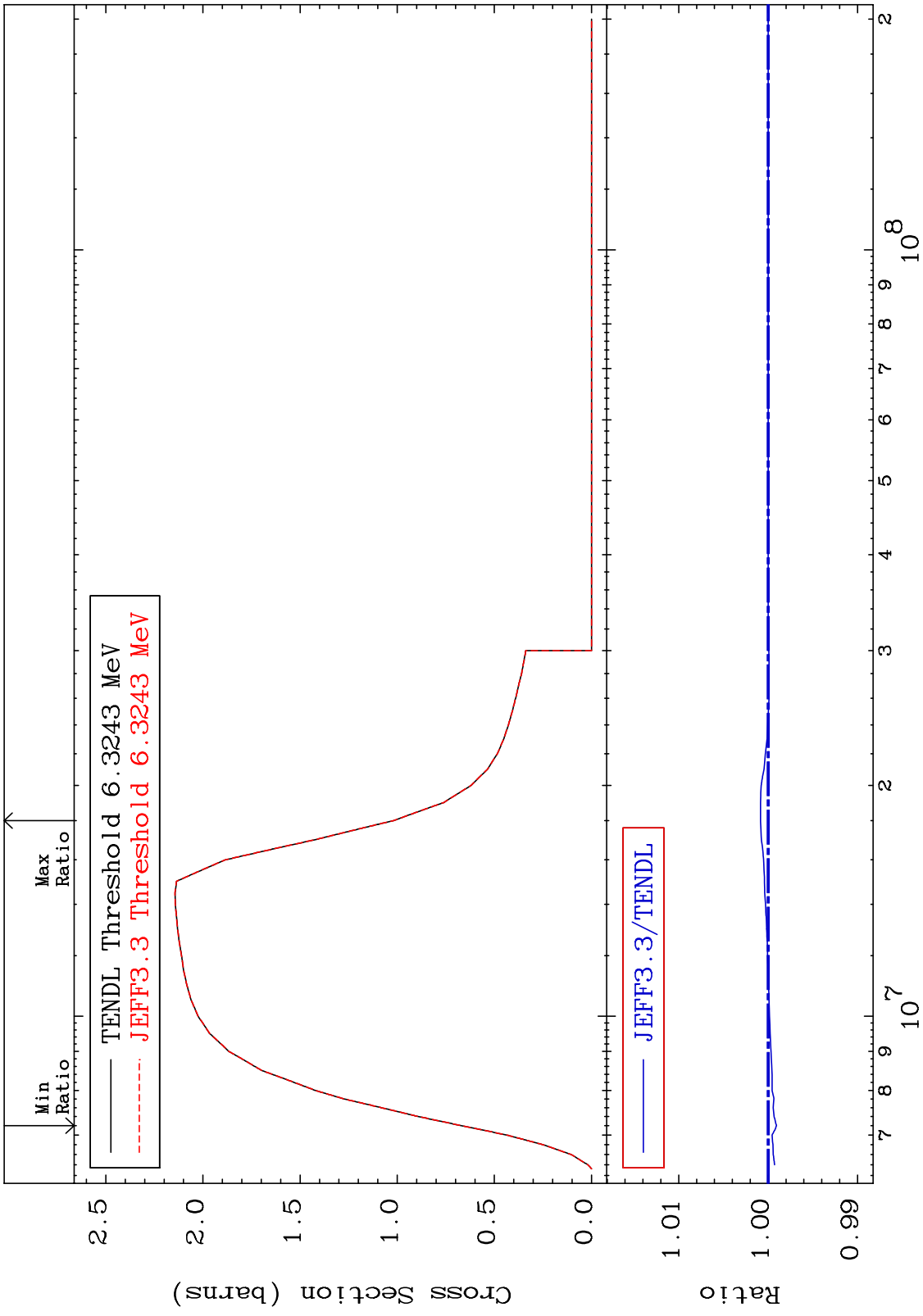
76-Os-187  
-0.134 To 0.062 %



MAT 7634 (n,2n) d 76-Os-187  
Cross Section 0.000 To 21.97 %

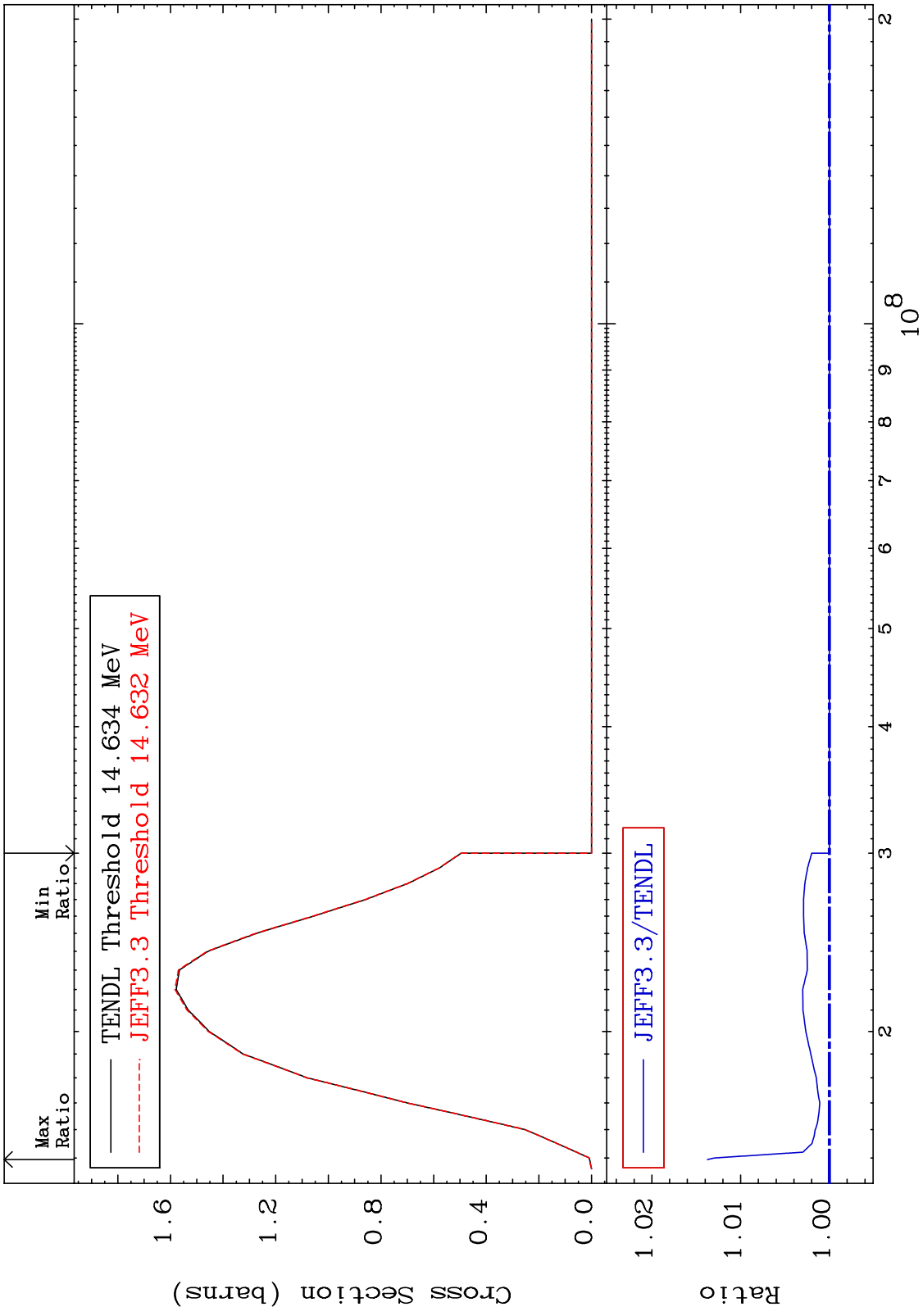


MAT 7634 (n,2n) Cross Section 76-0s-187 -0.093 To 0.085 %



5 Incident Energy (eV) 76-0s-187

MAT 7634 (n,3n) Cross Section 76-0s-187 To 1.374 %



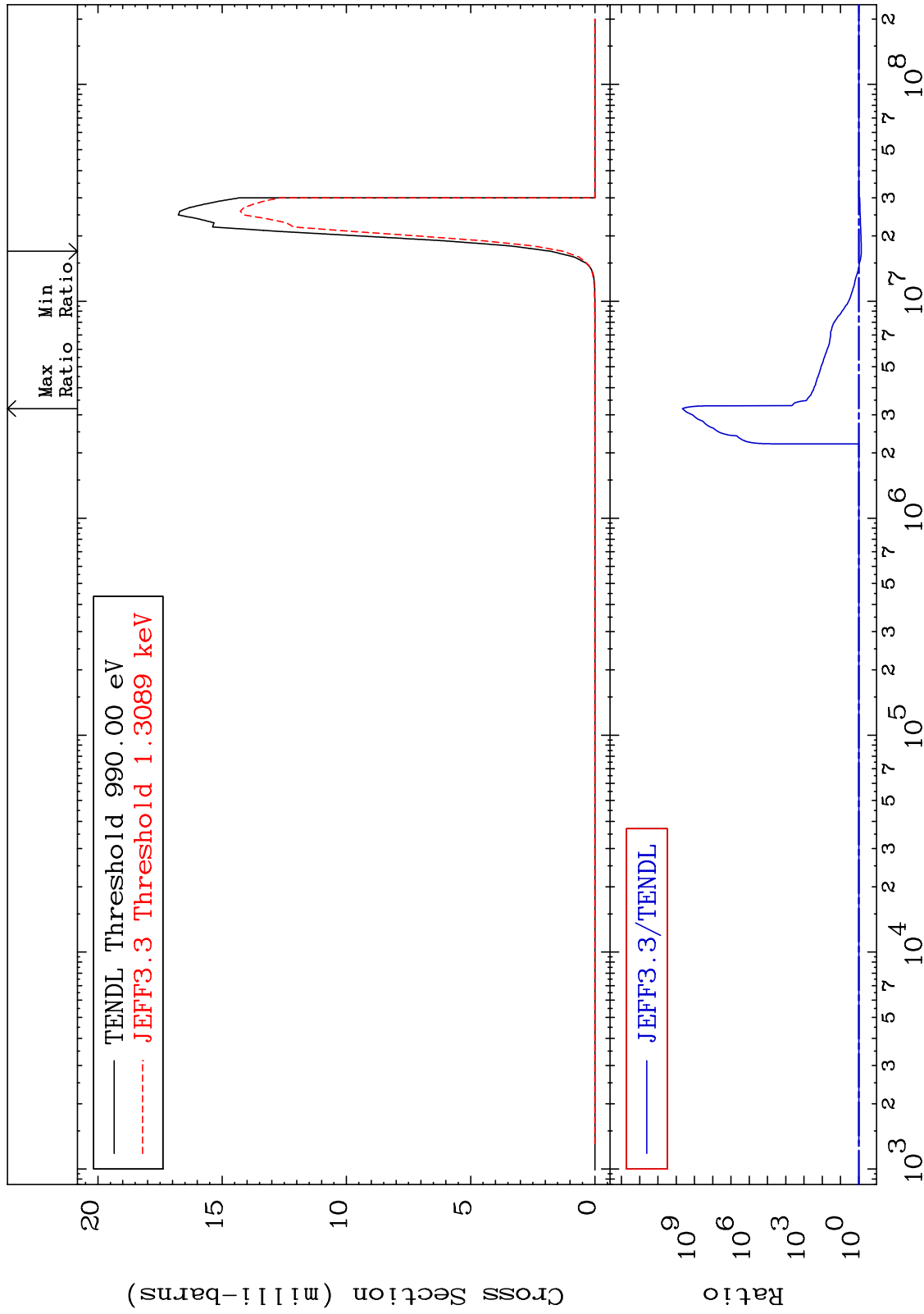
MAT 7634

(n, n')  $\alpha$

76-Os-187

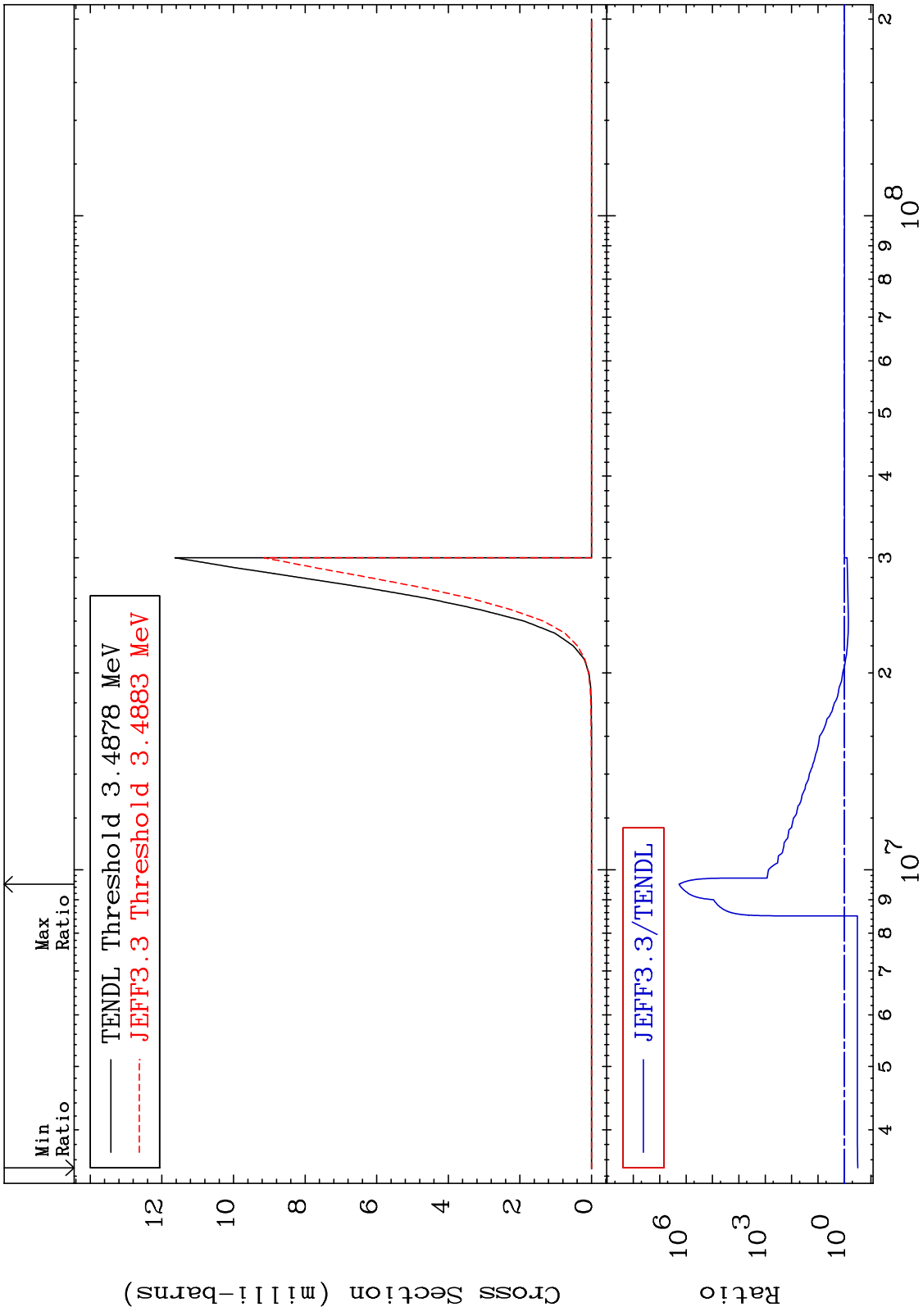
Cross Section

-27.40 To 9999. %

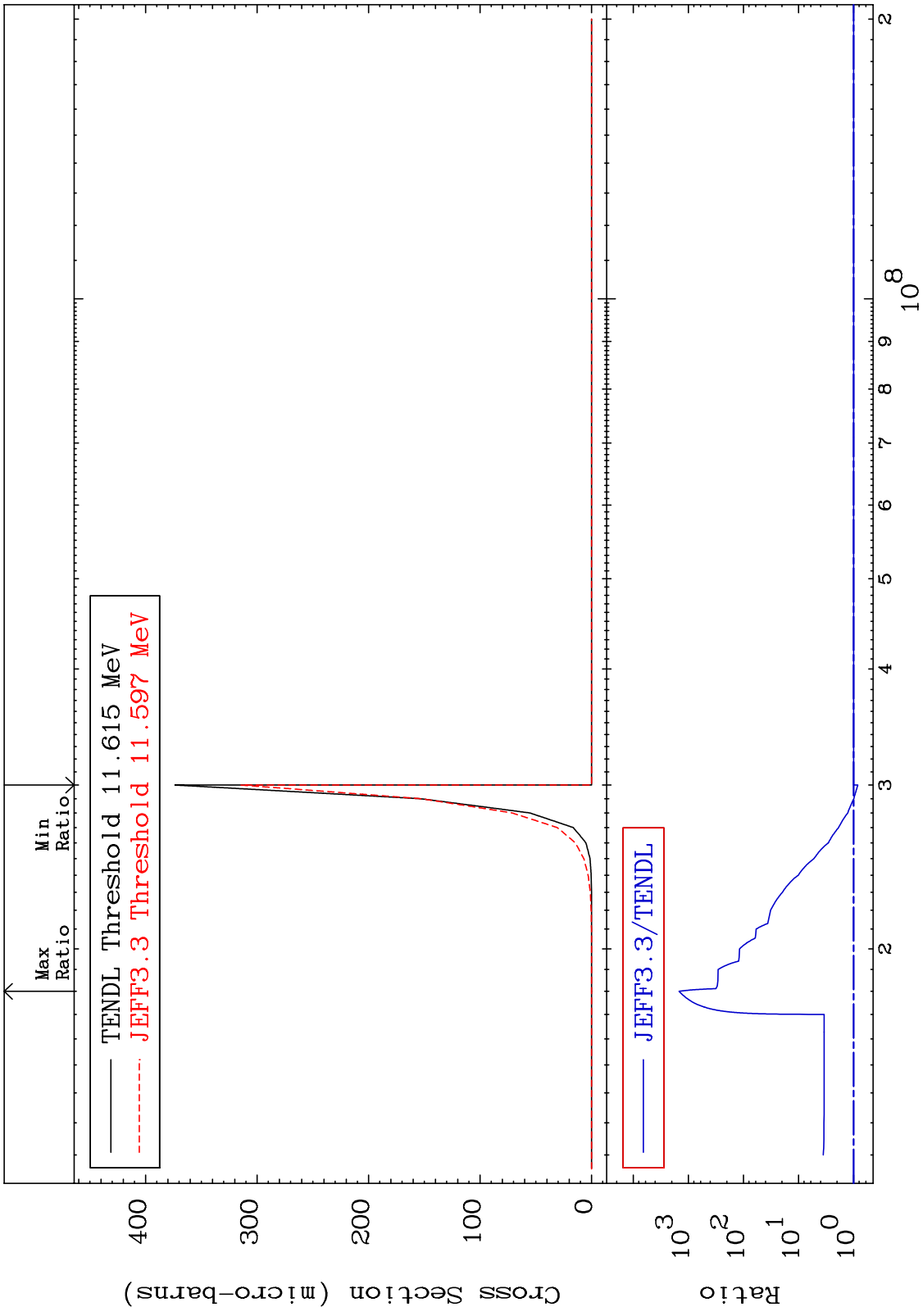




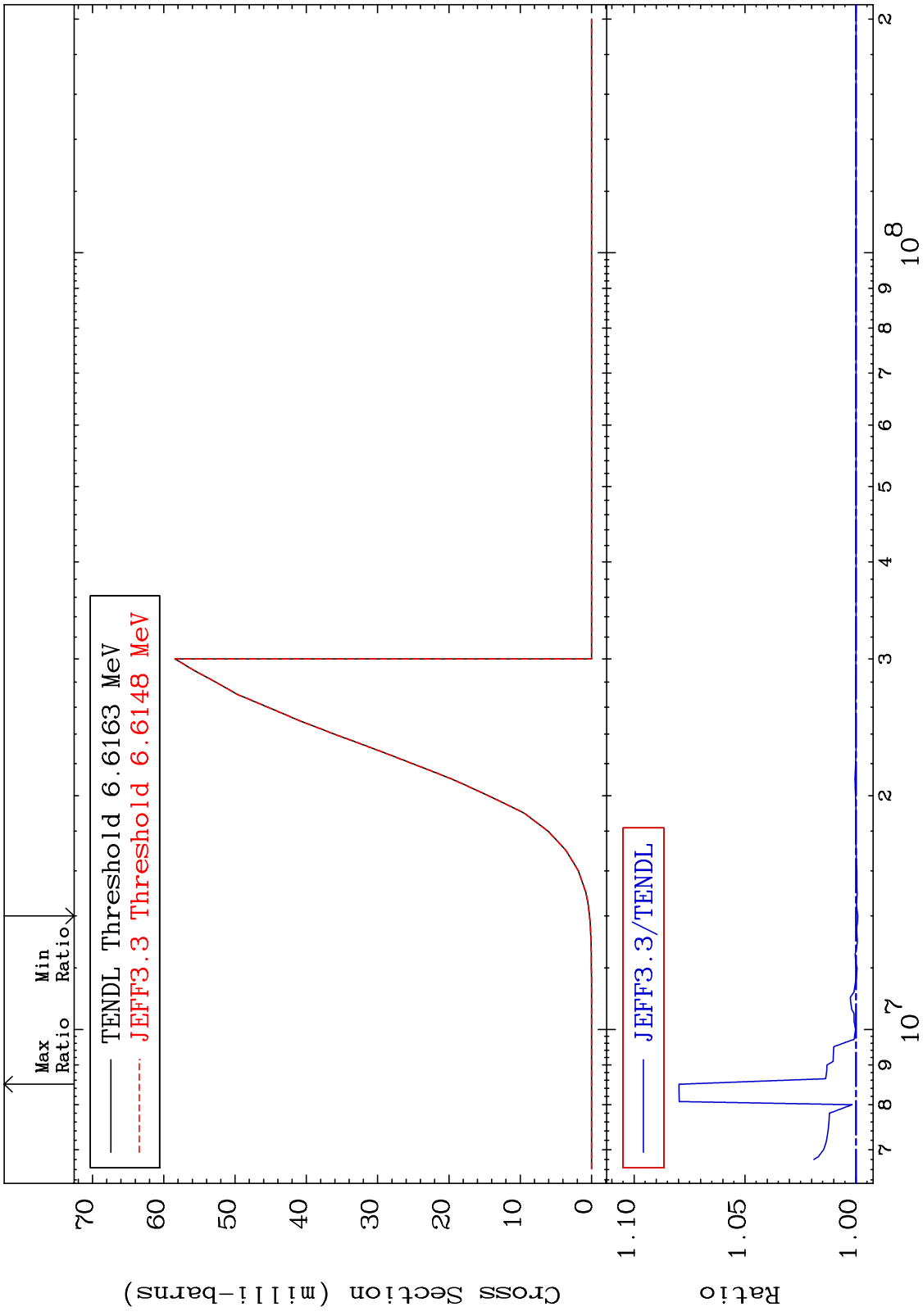
MAT 7634  $(n, 2n) \alpha$  76-Os-187  
 Cross Section -68.94 To 9999. %



MAT 7634 (n,3n)  $\alpha$  76-Os-187  
 Cross Section -15.86 To 9999. %



MAT 7634 (n,n') p 76-0s-187  
 Cross Section -0.085 To 7.973 %

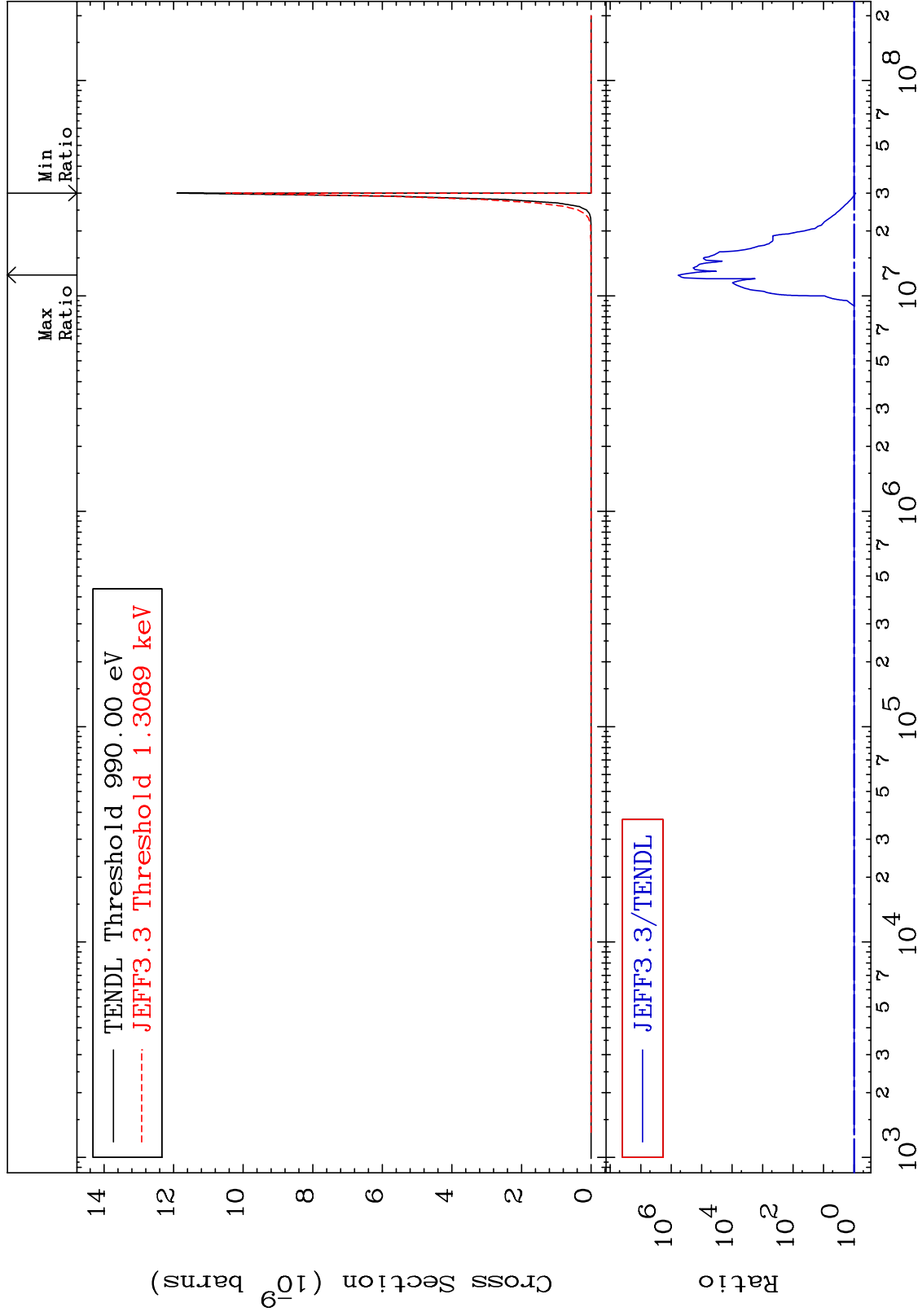


76-0s-187

MAT 7634

(n,n') 2 $\alpha$   
Cross Section

76-Os-187  
-11.84 To 9999. %

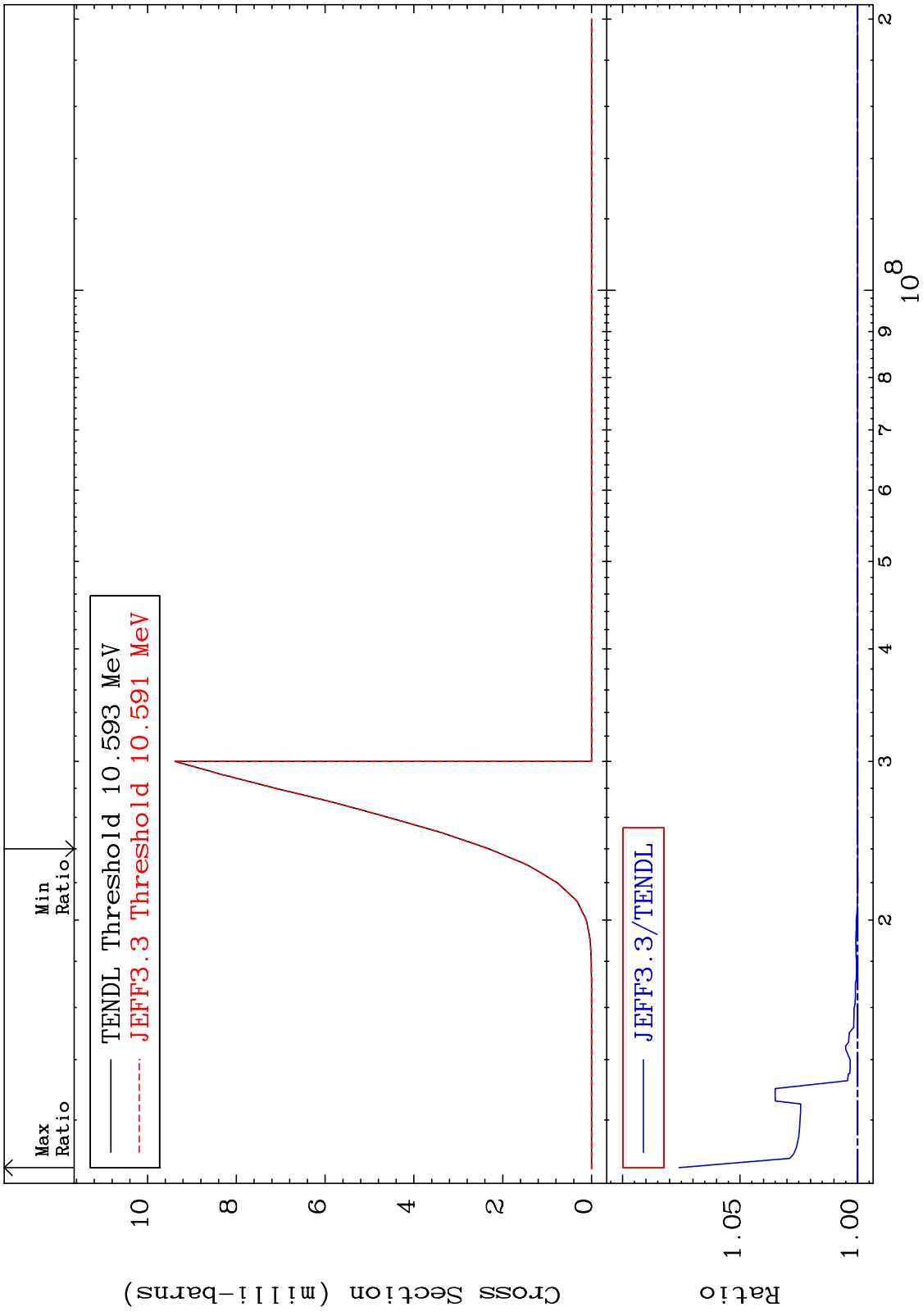


11

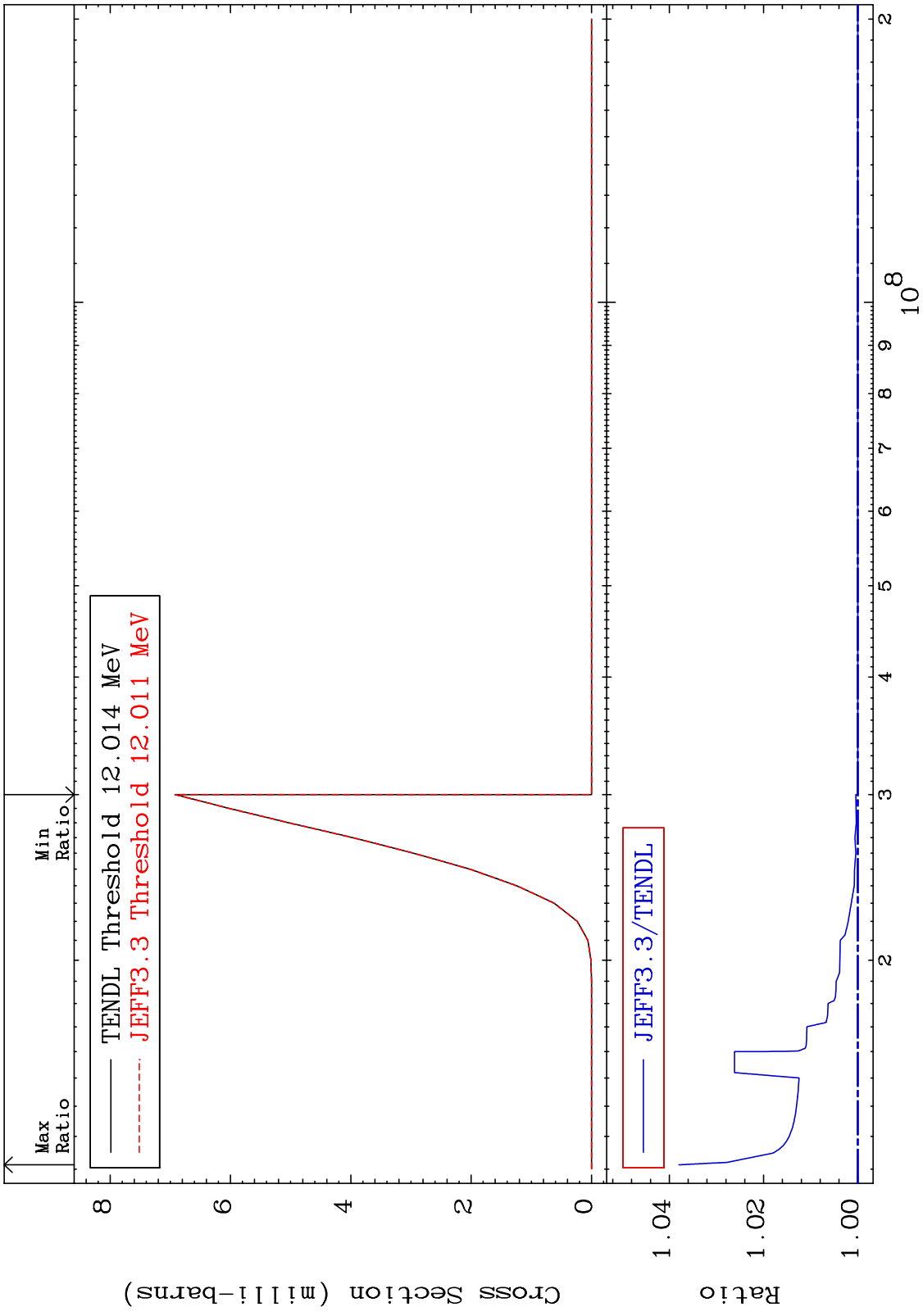
Incident Energy (eV)

76-Os-187

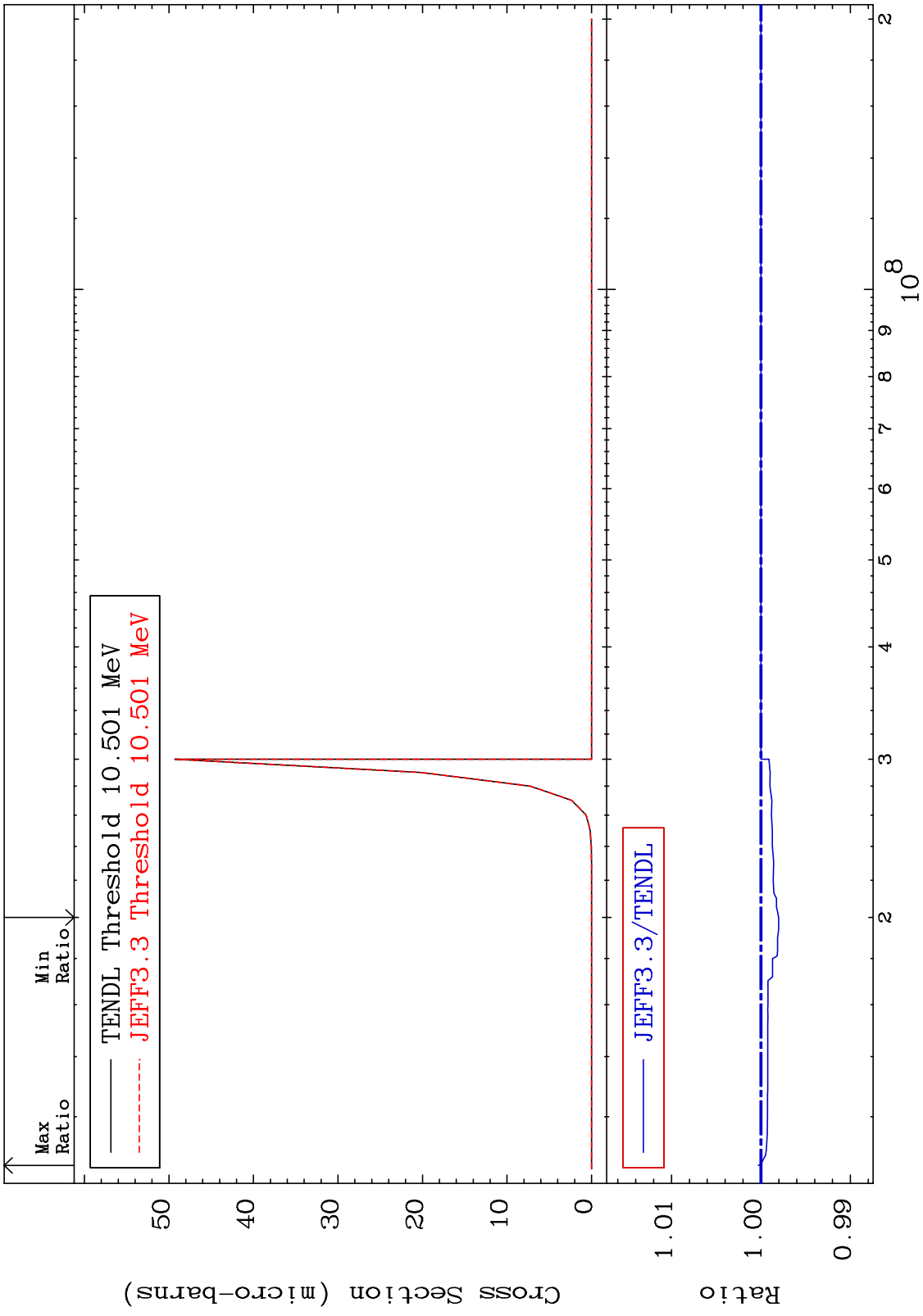
MAT 7634 (n, n') d 76-0s-187  
 Cross Section -0.015 To 7.596 %



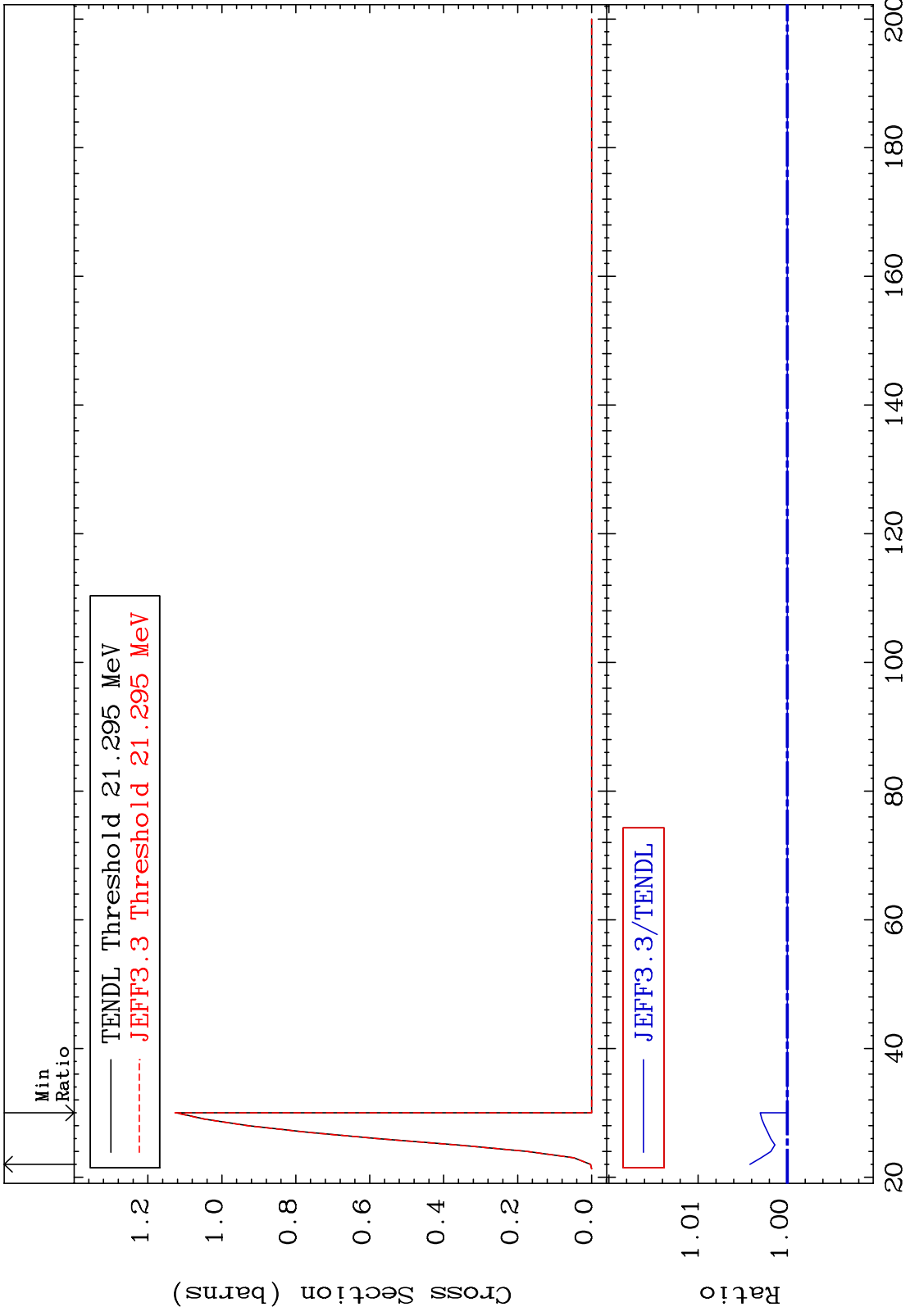
MAT 7634 (n,n') t 76-Os-187  
 Cross Section 0.000 To 3.794 %



MAT 7634 (n, n') He-3 76-0s-187  
 Cross Section -0.198 To 0.030 %



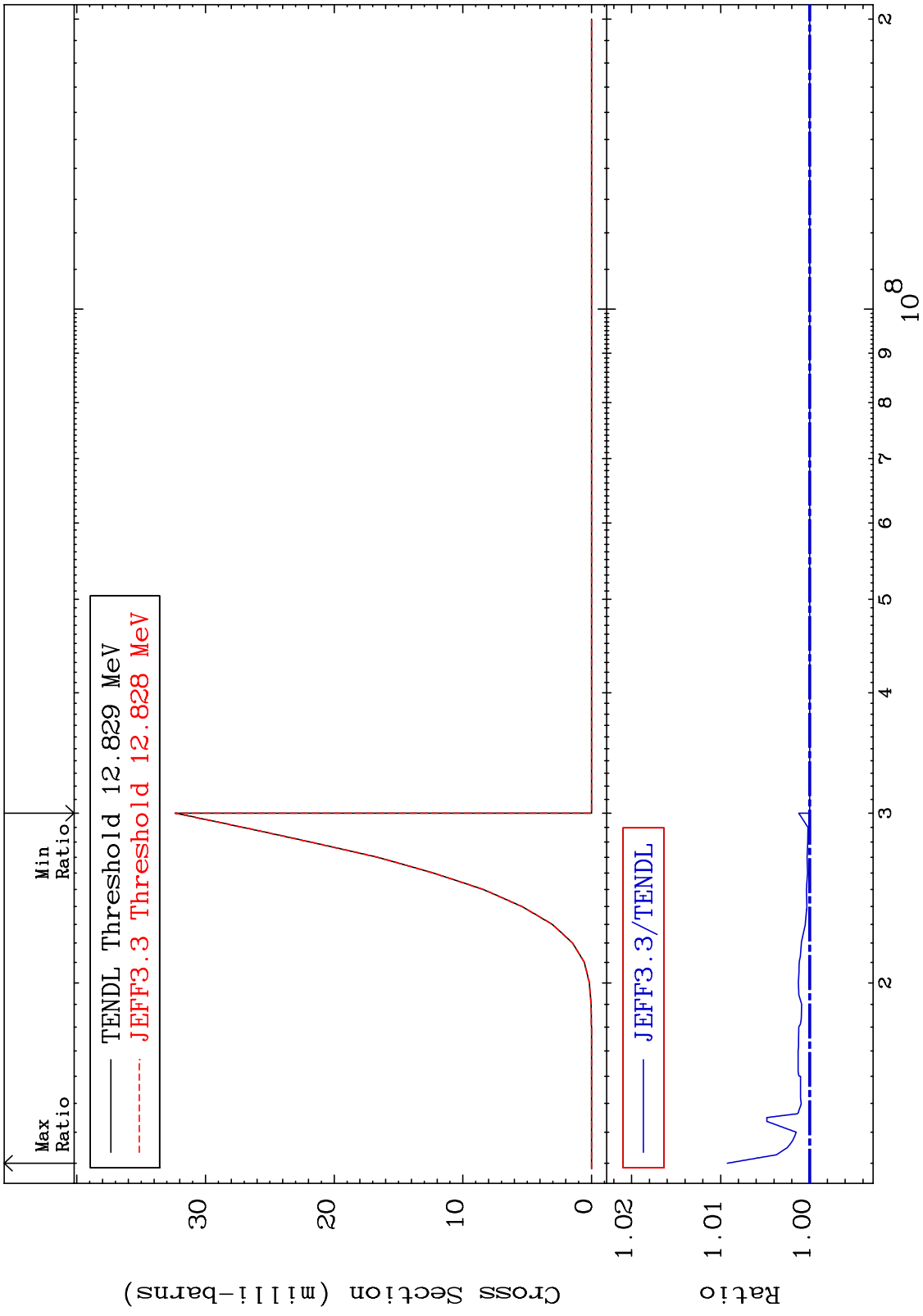
MAT 7634 (n,4n) Cross Section 76-Os-187  
0.000 To 0.420 %



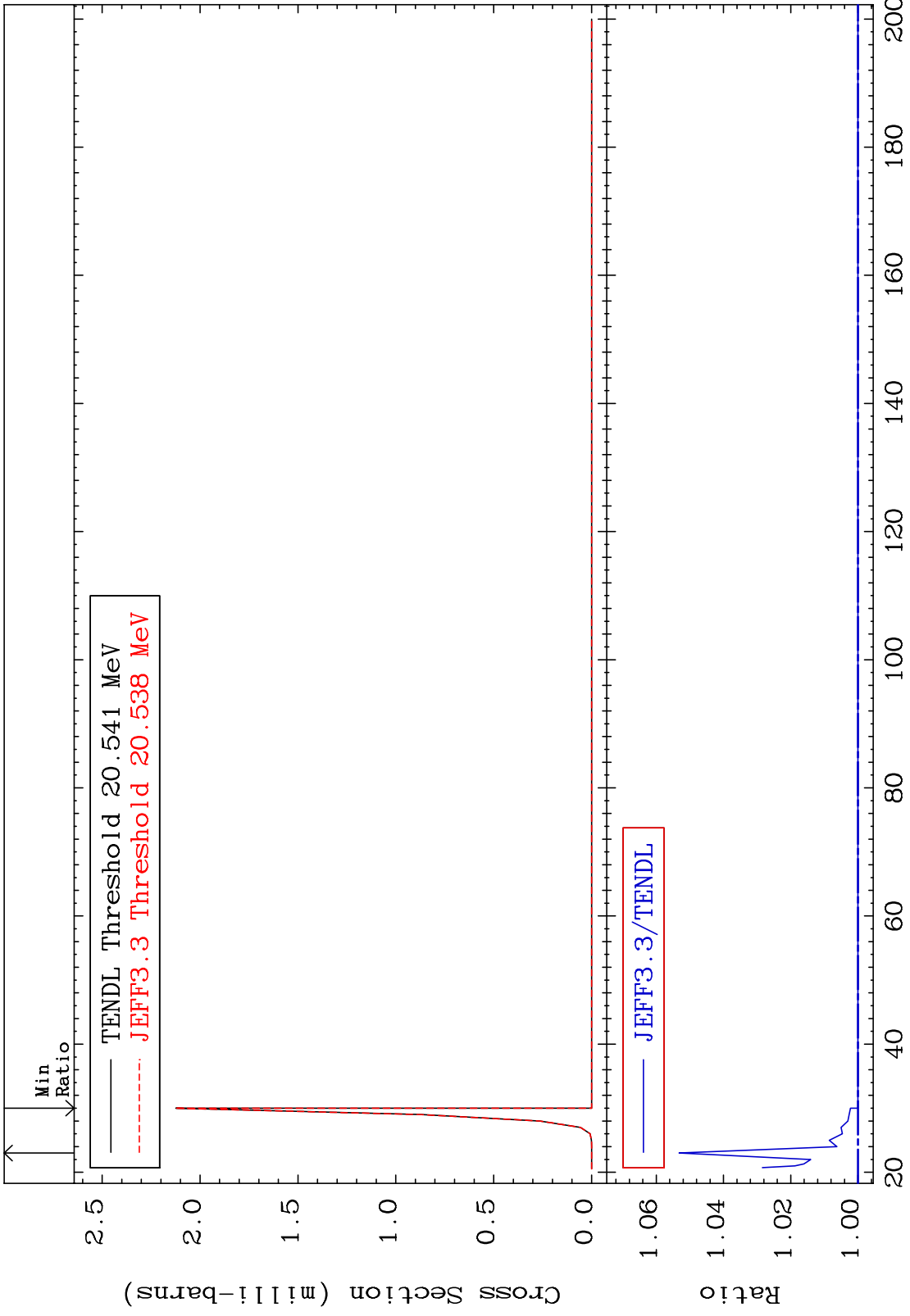
Incident Energy (MeV) 76-Os-187



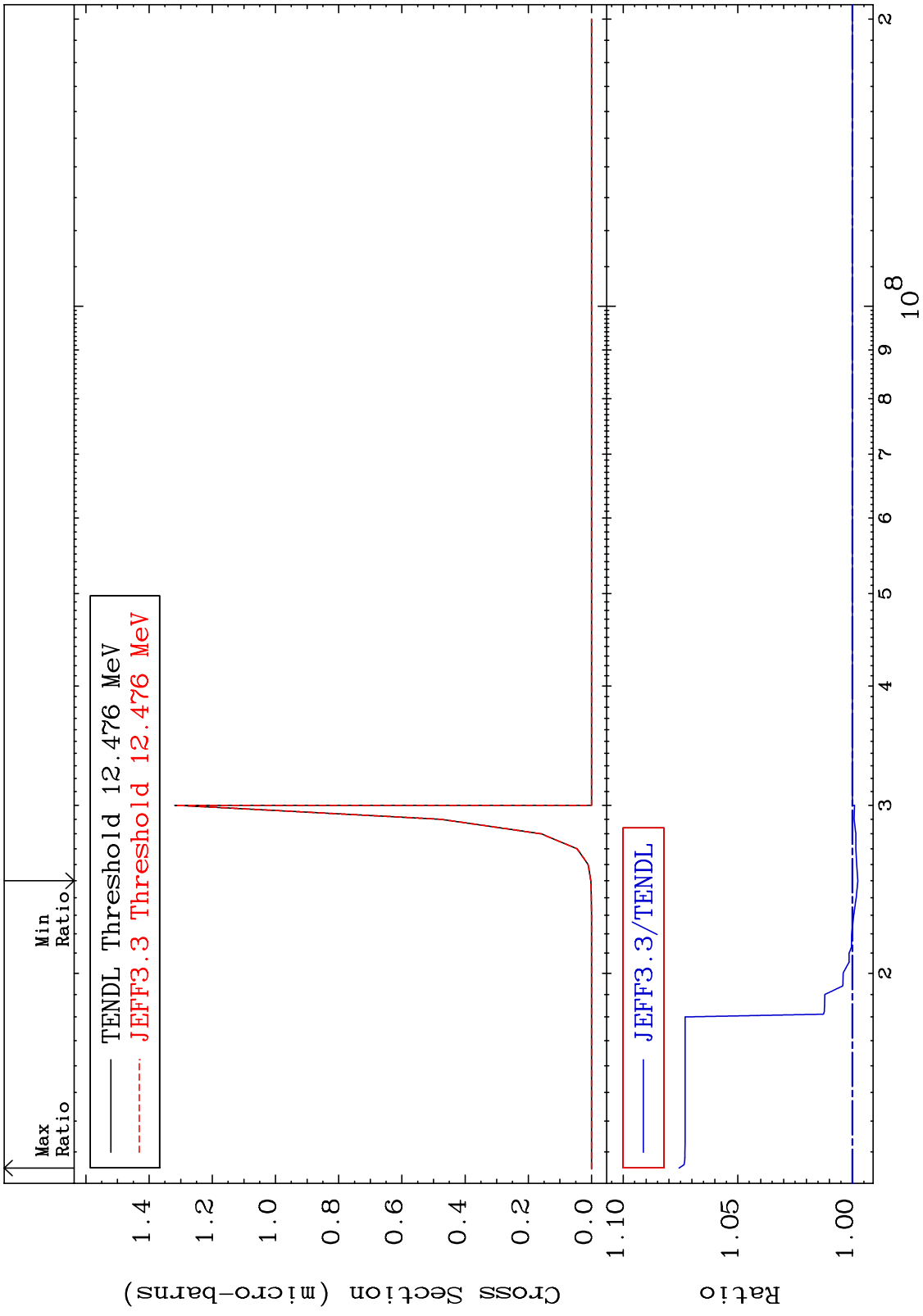
MAT 7634 (n,2n) p 76-0s-187  
 Cross Section 0.000 To 0.925 %



MAT 7634 (n,3n) p 76-0s-187  
Cross Section 0.000 To 5.319 %



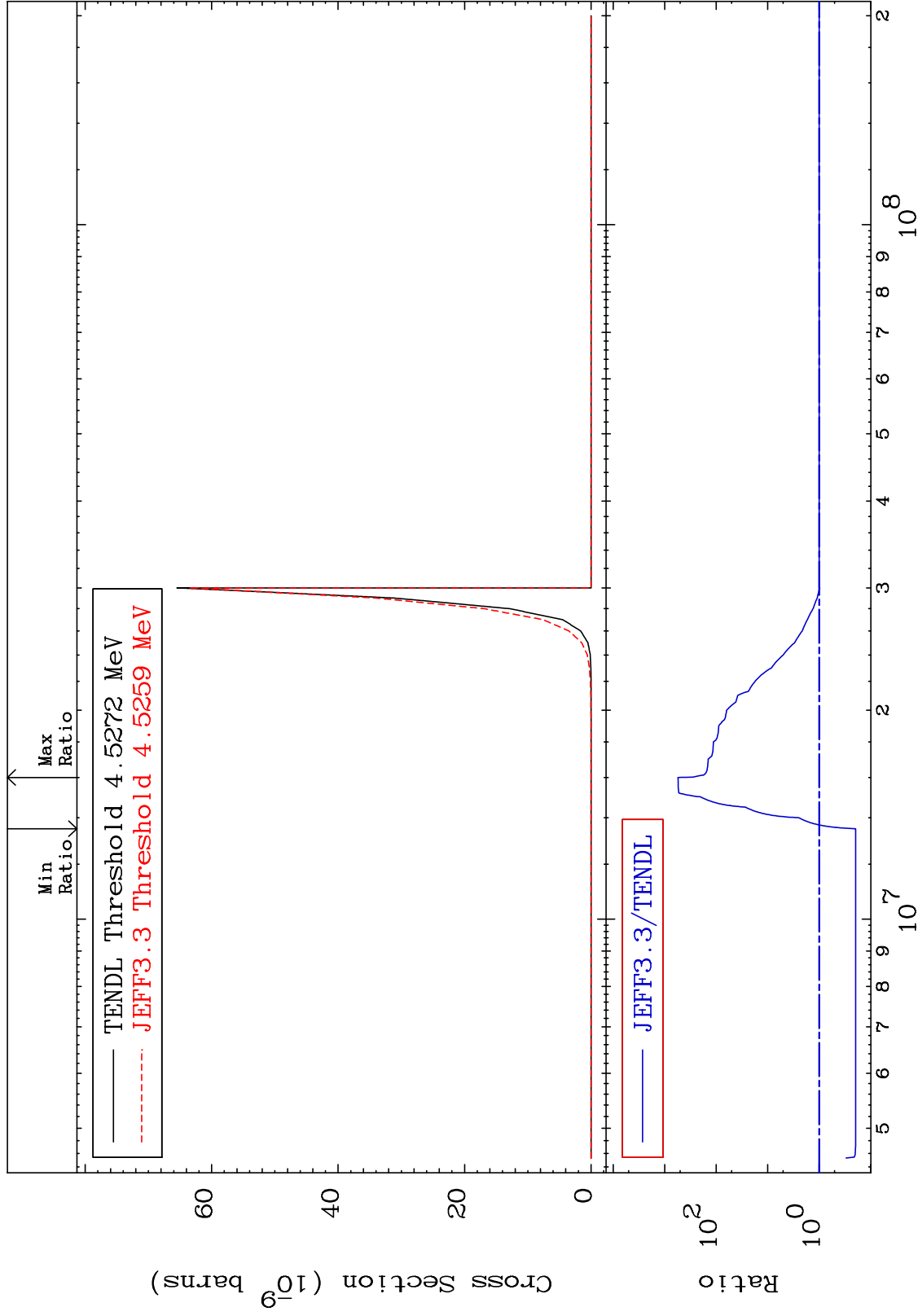
MAT 7634 (n,2n) p 76-0s-187  
 Cross Section -0.239 To 7.562 %



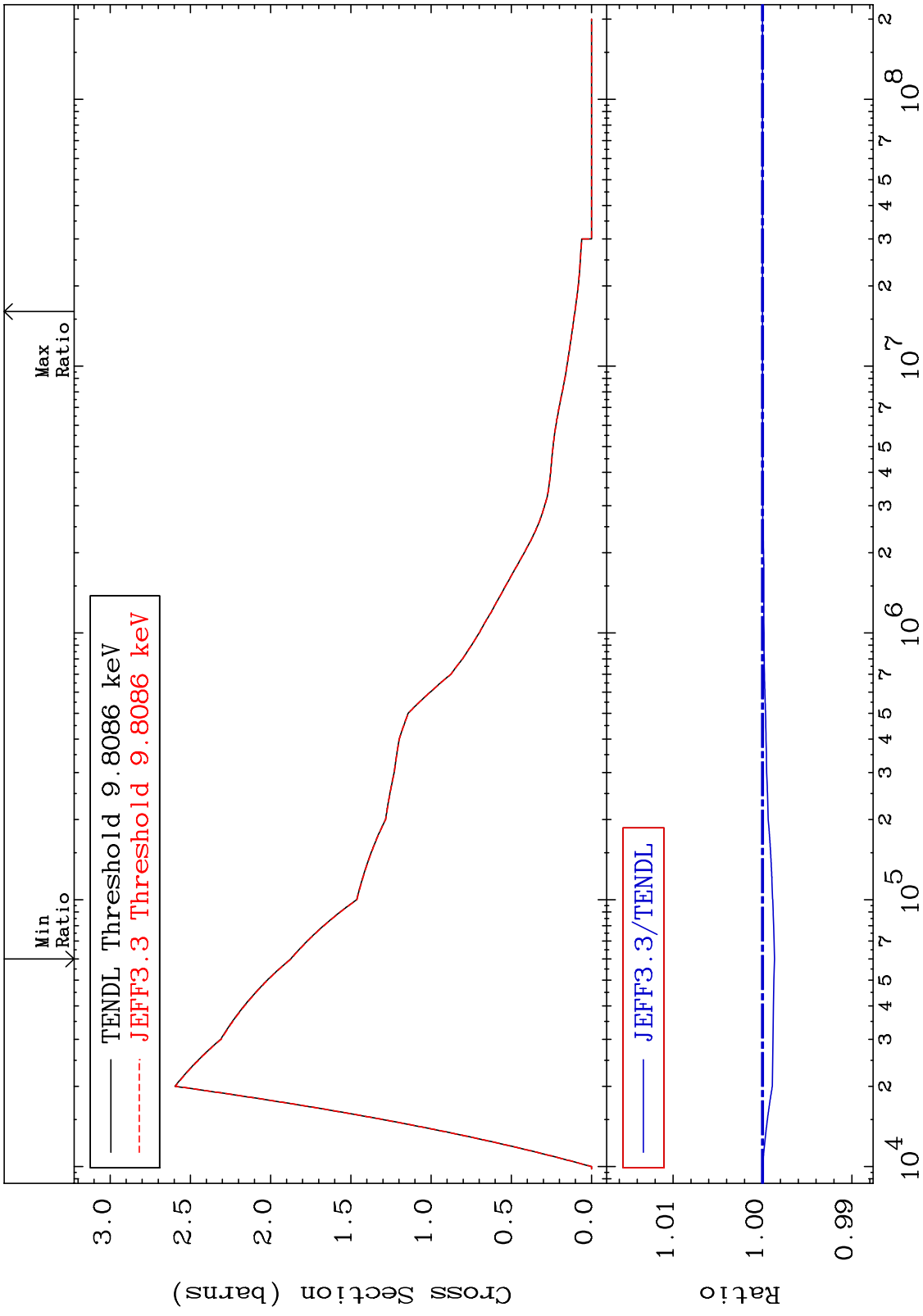
MAT 7634

(n,n') p  $\alpha$   
Cross Section

76-Os-187  
-80.51 To 9999. %

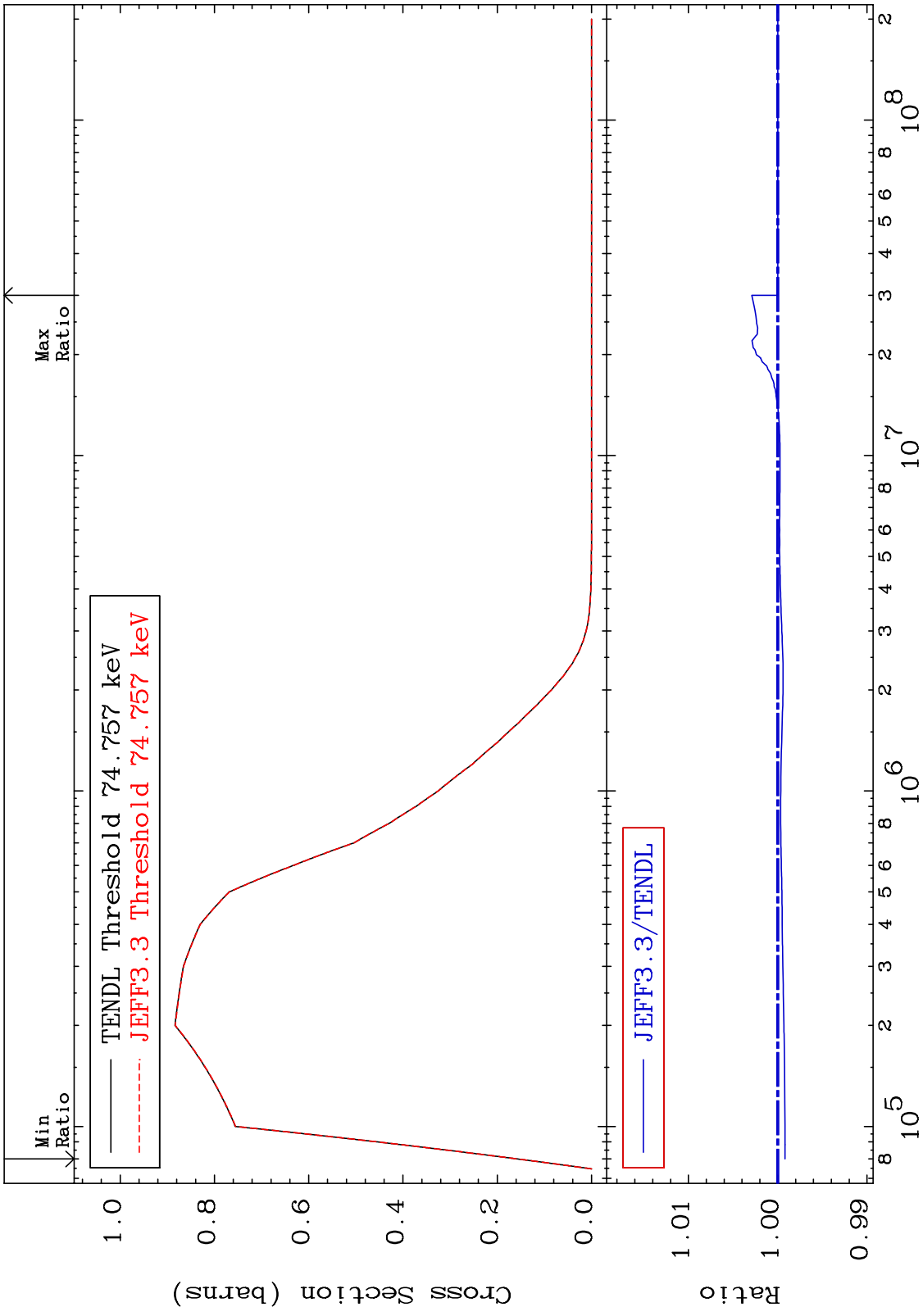


MAT 7634 MT= 51 (n,n') Level Cross Section 76-Os-187  
 -0.134 To 0.000 %

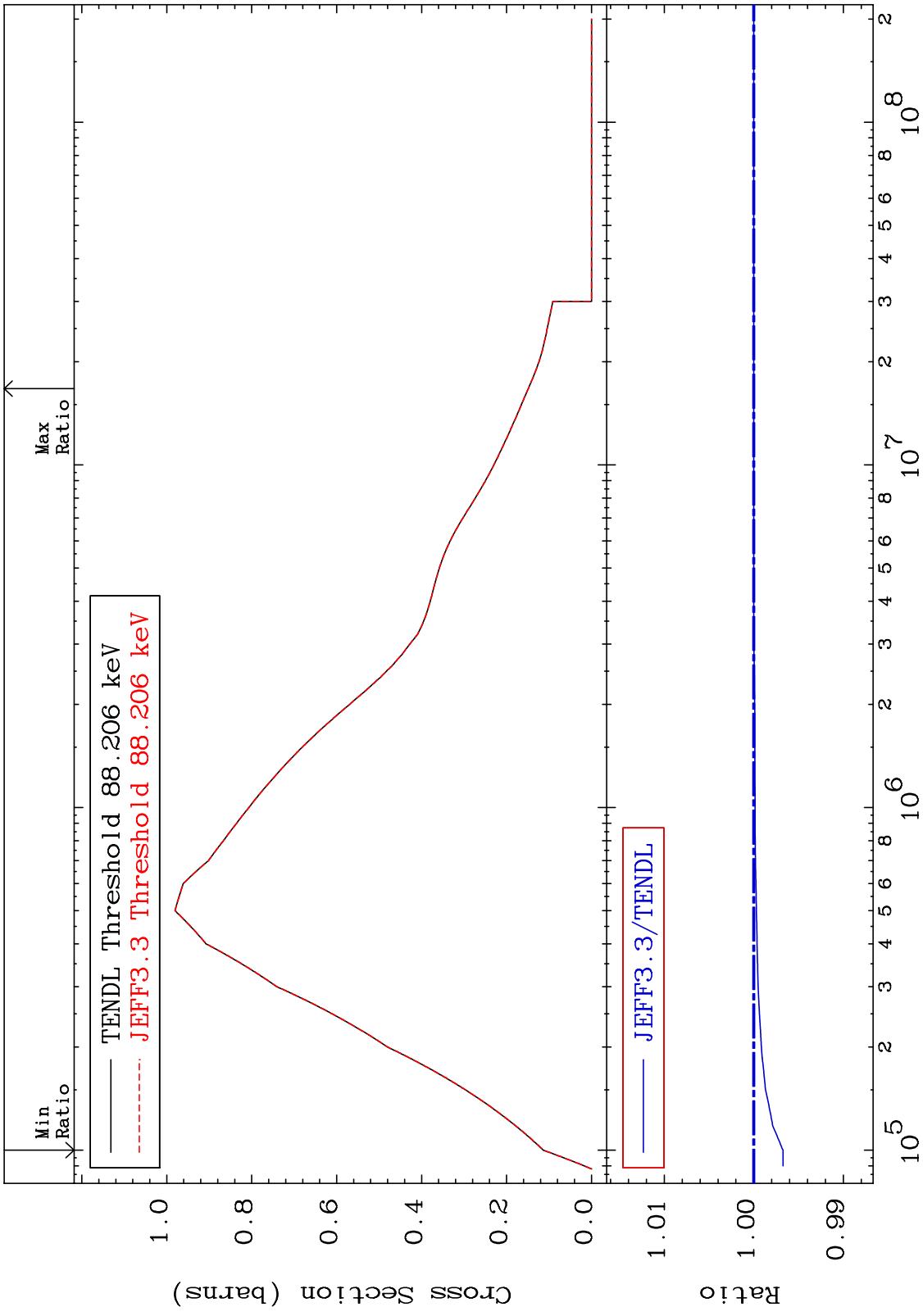


20 Incident Energy (eV) 76-Os-187

MAT 7634 MT= 52 (n,n') Level Cross Section 76-0s-187  
 -0.082 To 0.290 %

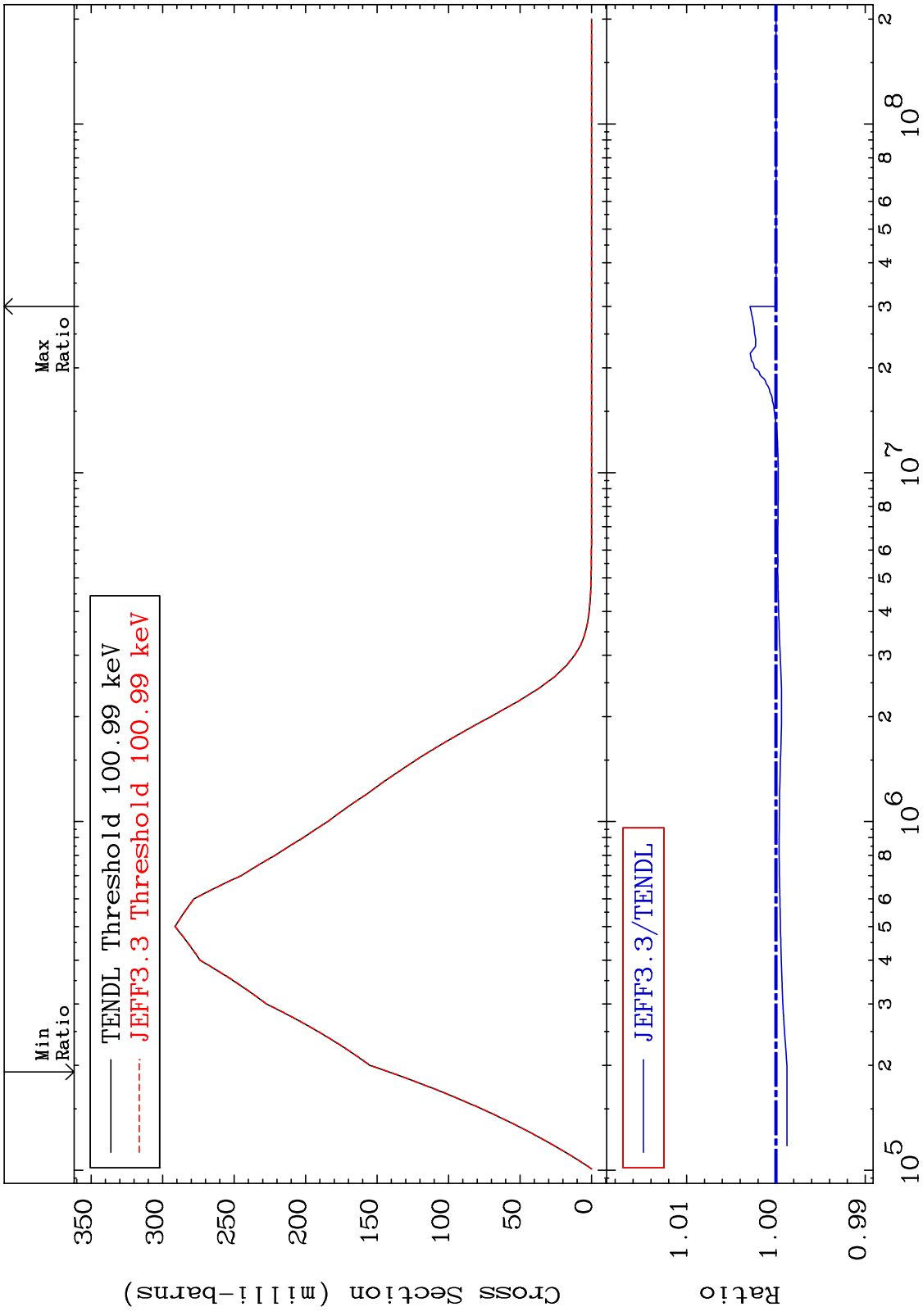


MAT 7634 MT= 53 (n,n') Level Cross Section 76-0s-187  
 -0.327 To 0.000 %



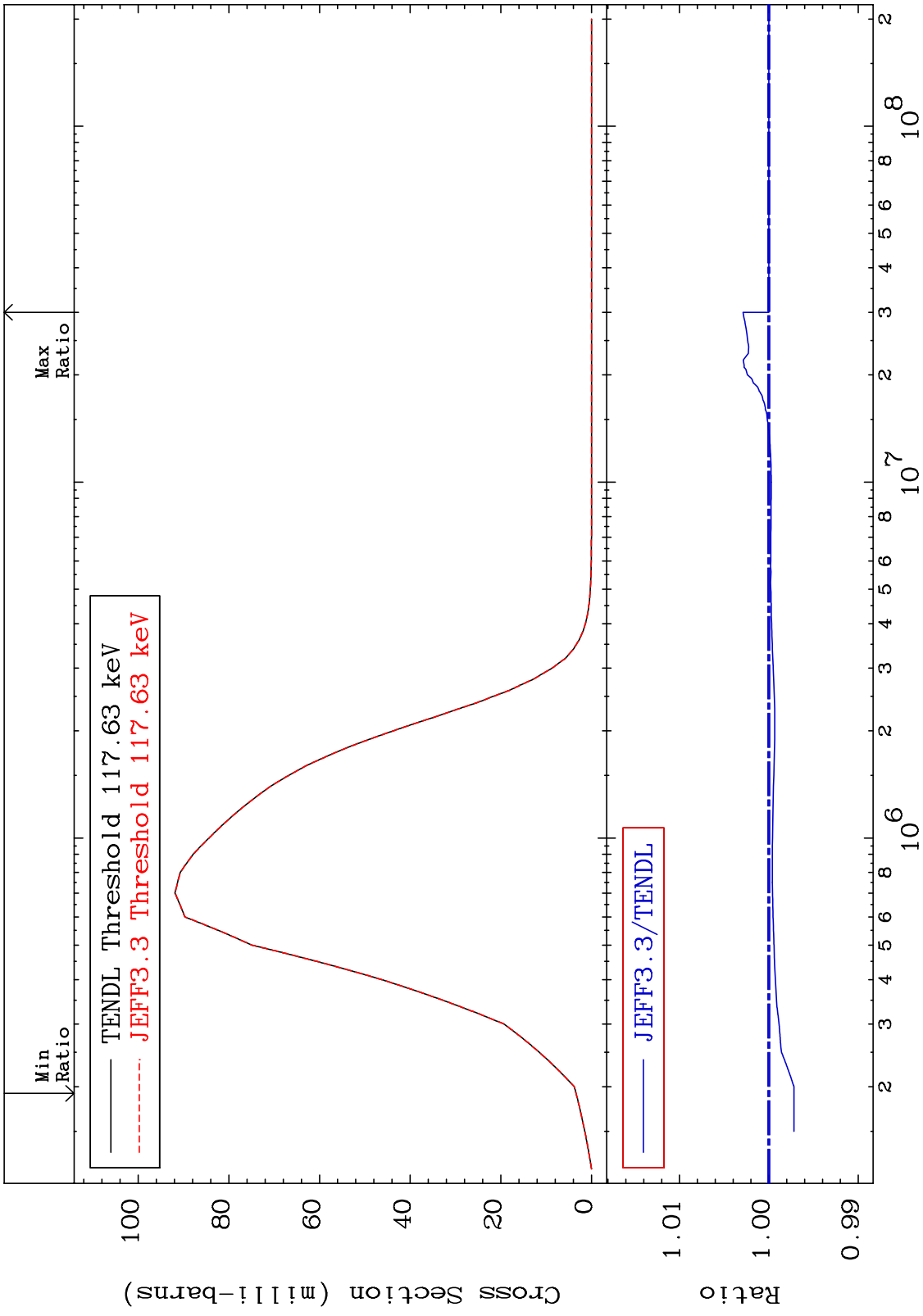
Incident Energy (eV) 76-0s-187

MAT 7634 MT= 54 (n,n') Level Cross Section 76-0s-187  
 -0.123 To 0.290 %

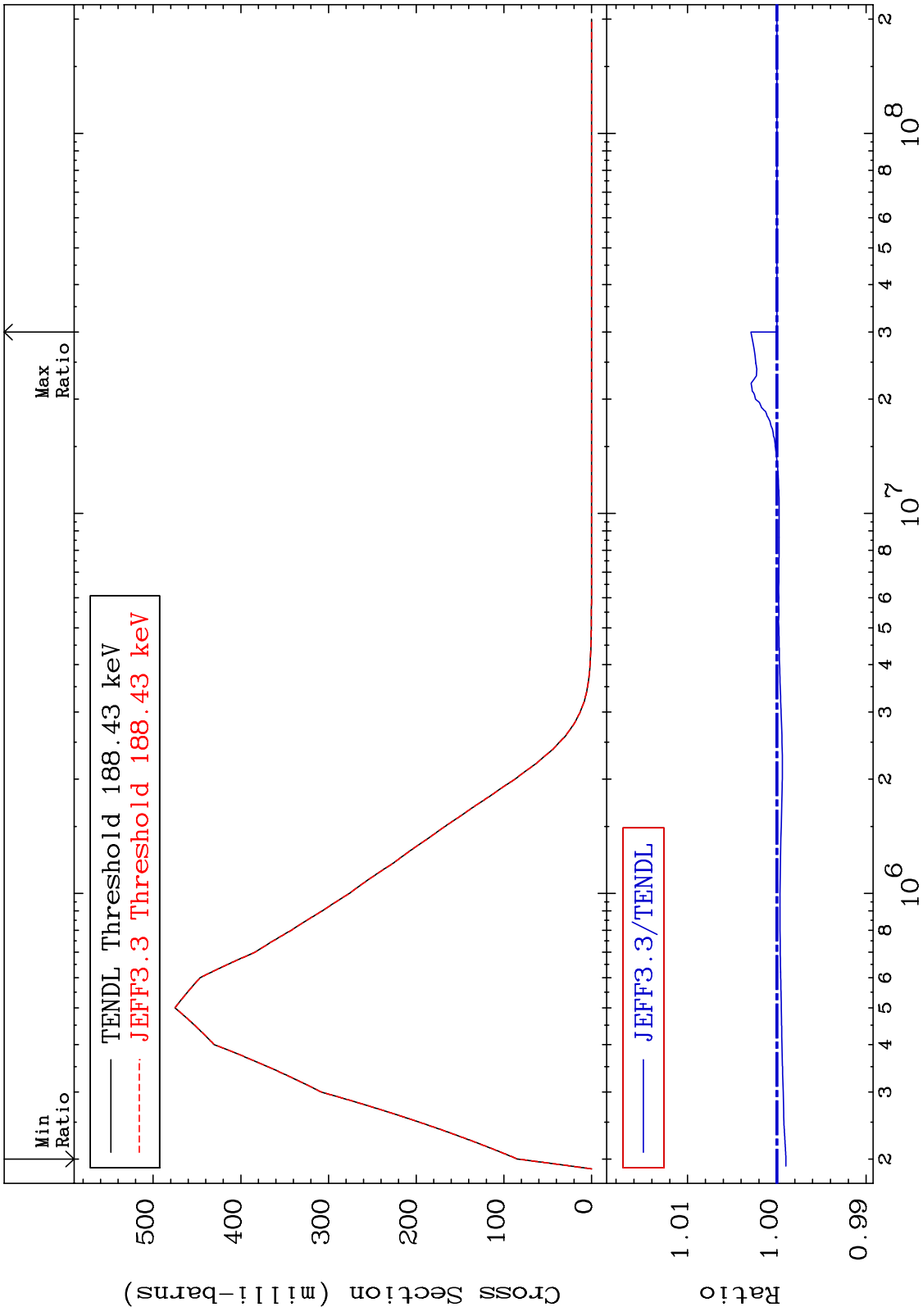




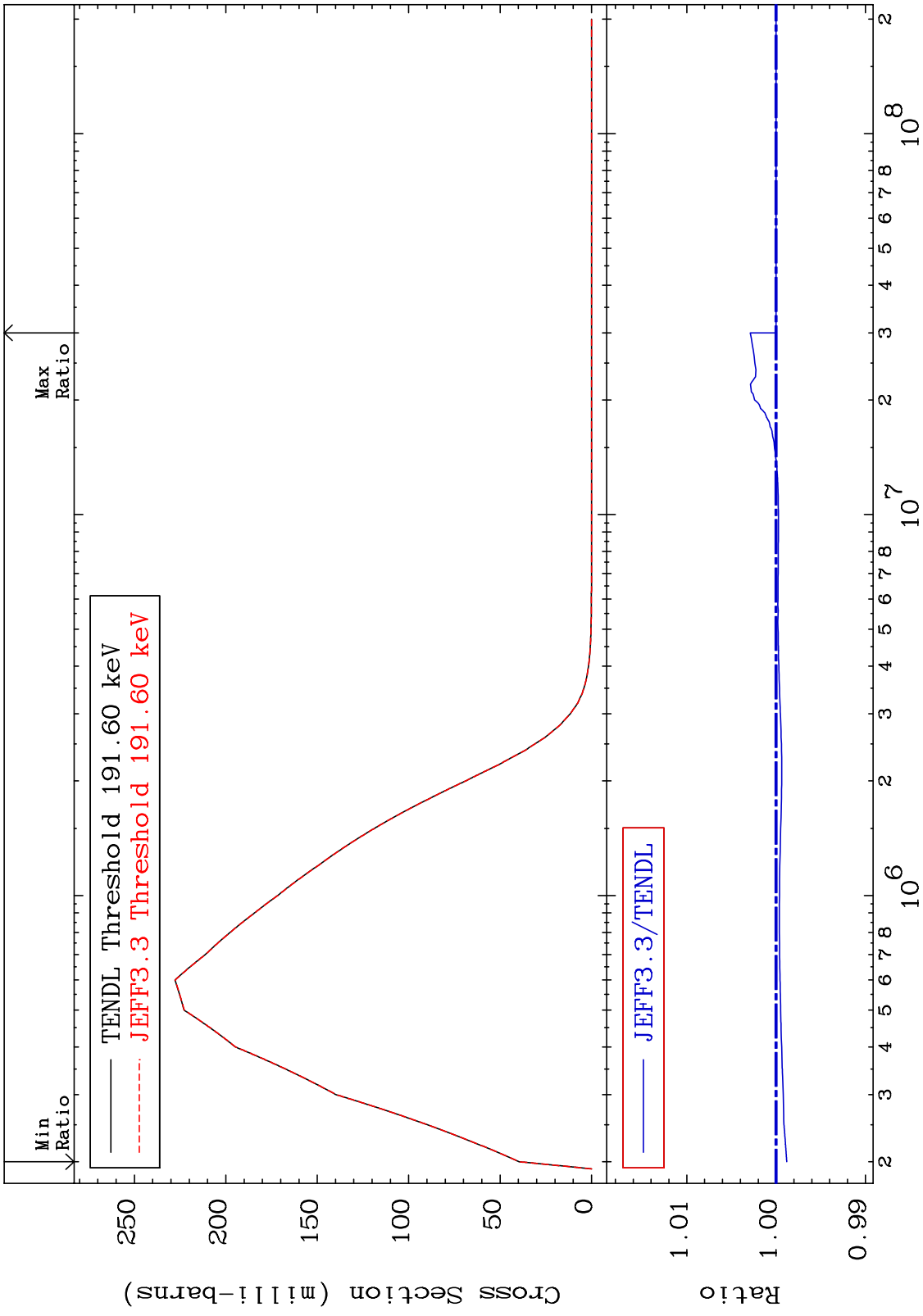
MAT 7634 MT= 55 (n,n') Level Cross Section 76-0s-187  
 -0.281 To 0.290 %



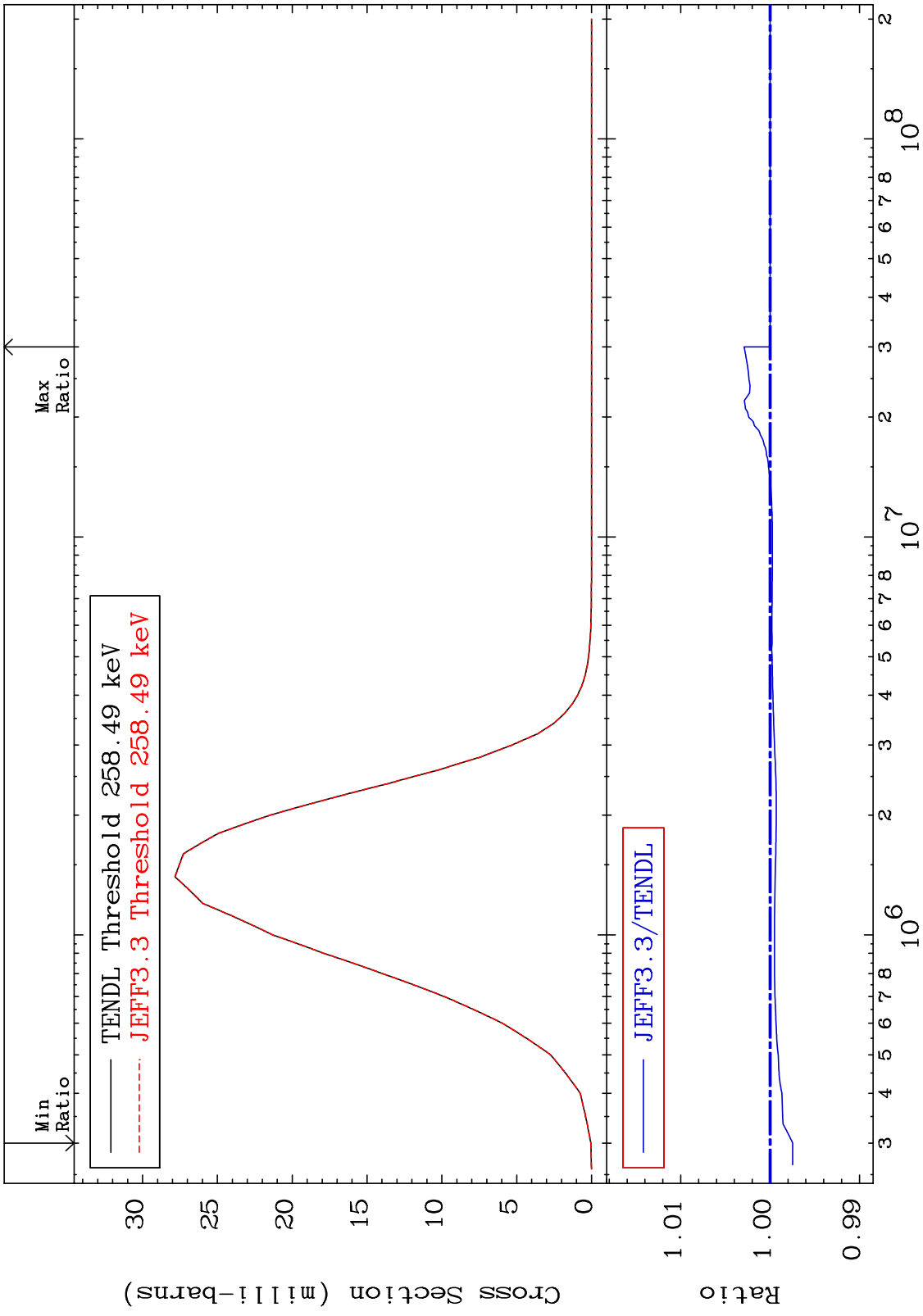
MAT 7634 MT= 56 (n,n') Level Cross Section 76-0s-187  
 -0.101 To 0.290 %



MAT 7634 MT= 57 (n,n') Level Cross Section 76-Os-187 -0.119 To 0.290 %

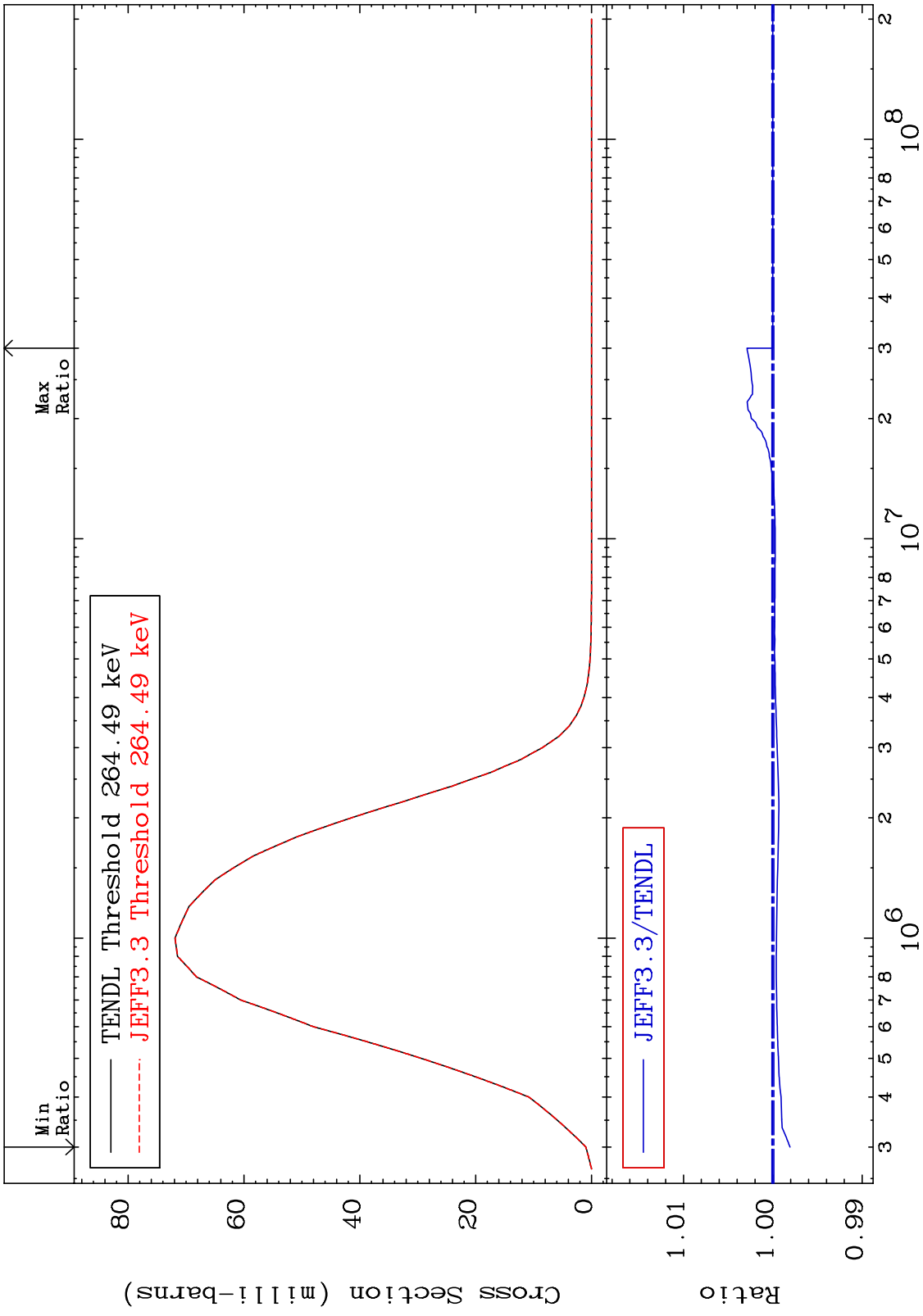


MAT 7634 MT= 58 (n,n') Level Cross Section 76-0s-187  
 -0.253 To 0.290 %

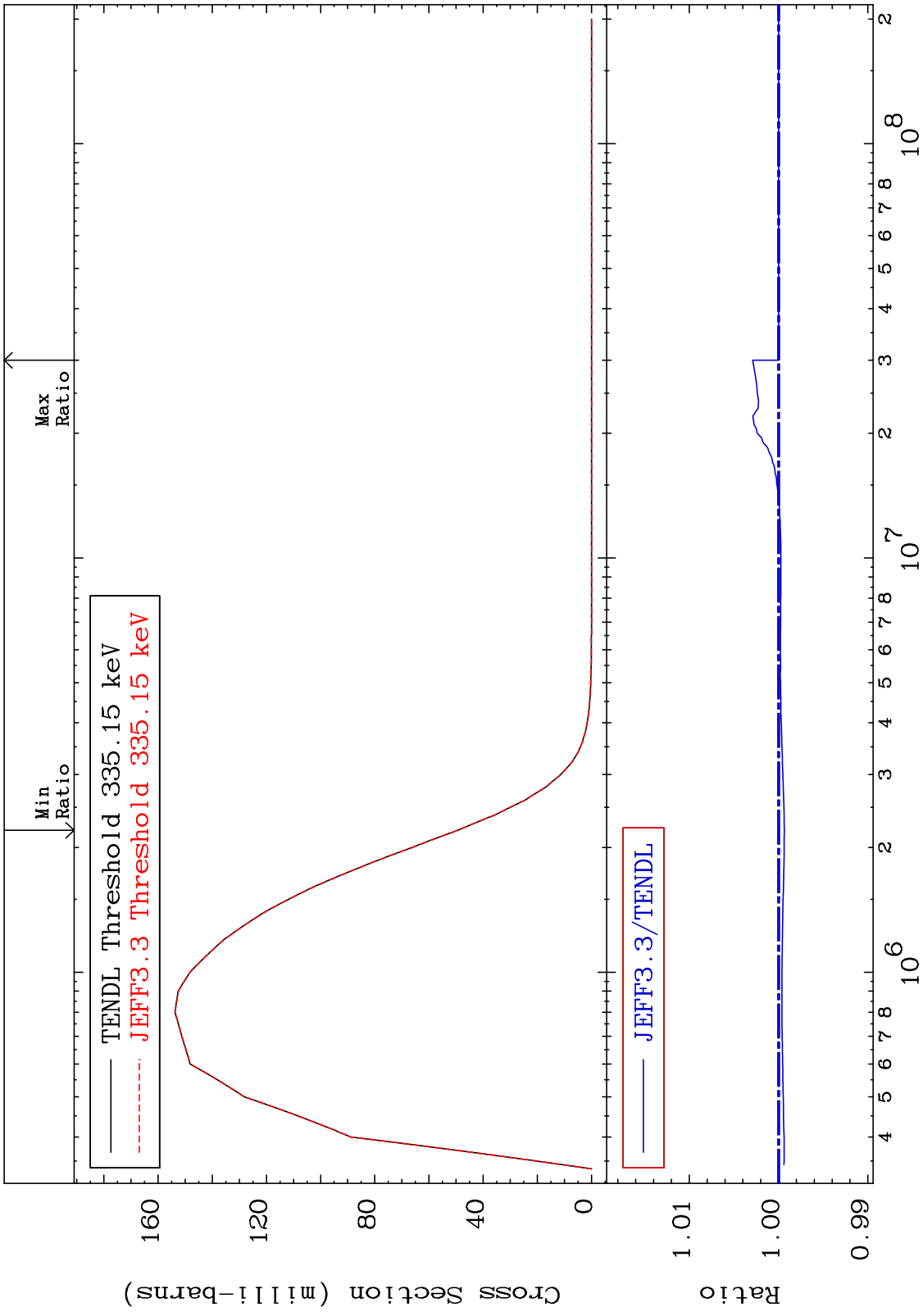


27 76-0s-187

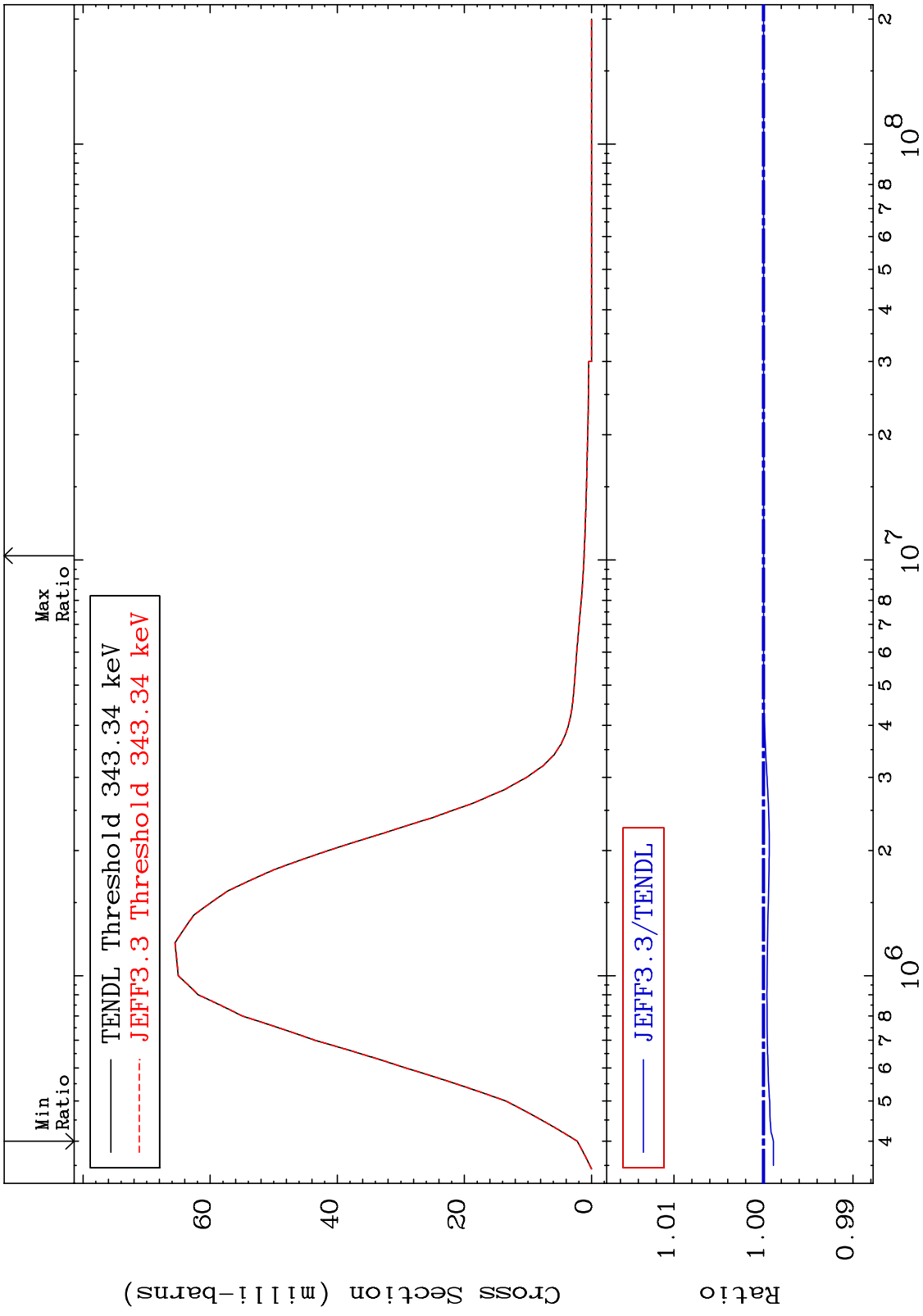
MAT 7634 MT= 59 (n,n') Level Cross Section 76-0s-187  
 -0.191 To 0.290 %



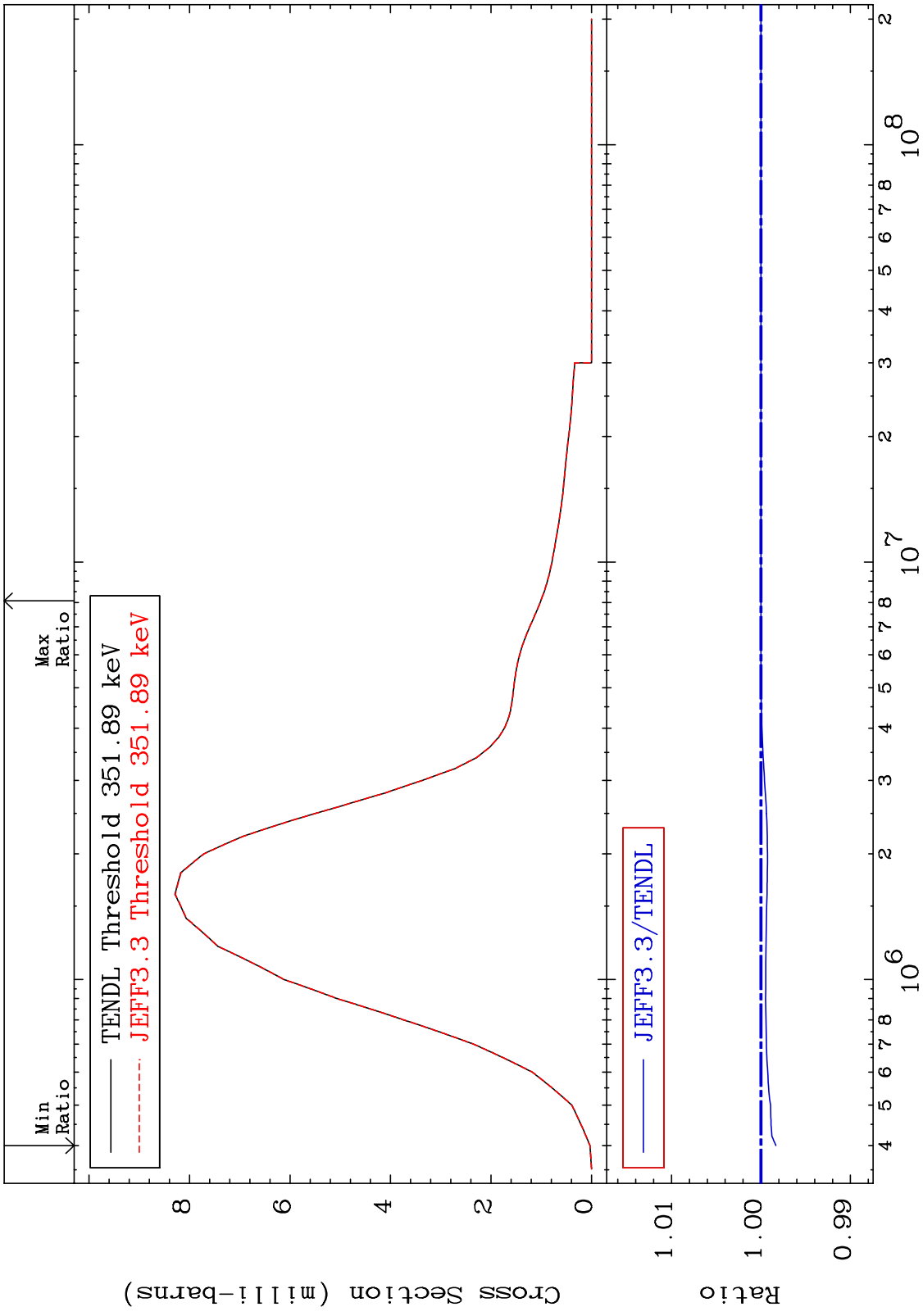
MAT 7634 MT= 60 (n,n') Level Cross Section 76-Os-187  
 -0.063 To 0.291 %



MAT 7634 MT= 61 (n,n') Level Cross Section 76-0s-187  
 -0.111 To 0.000 %

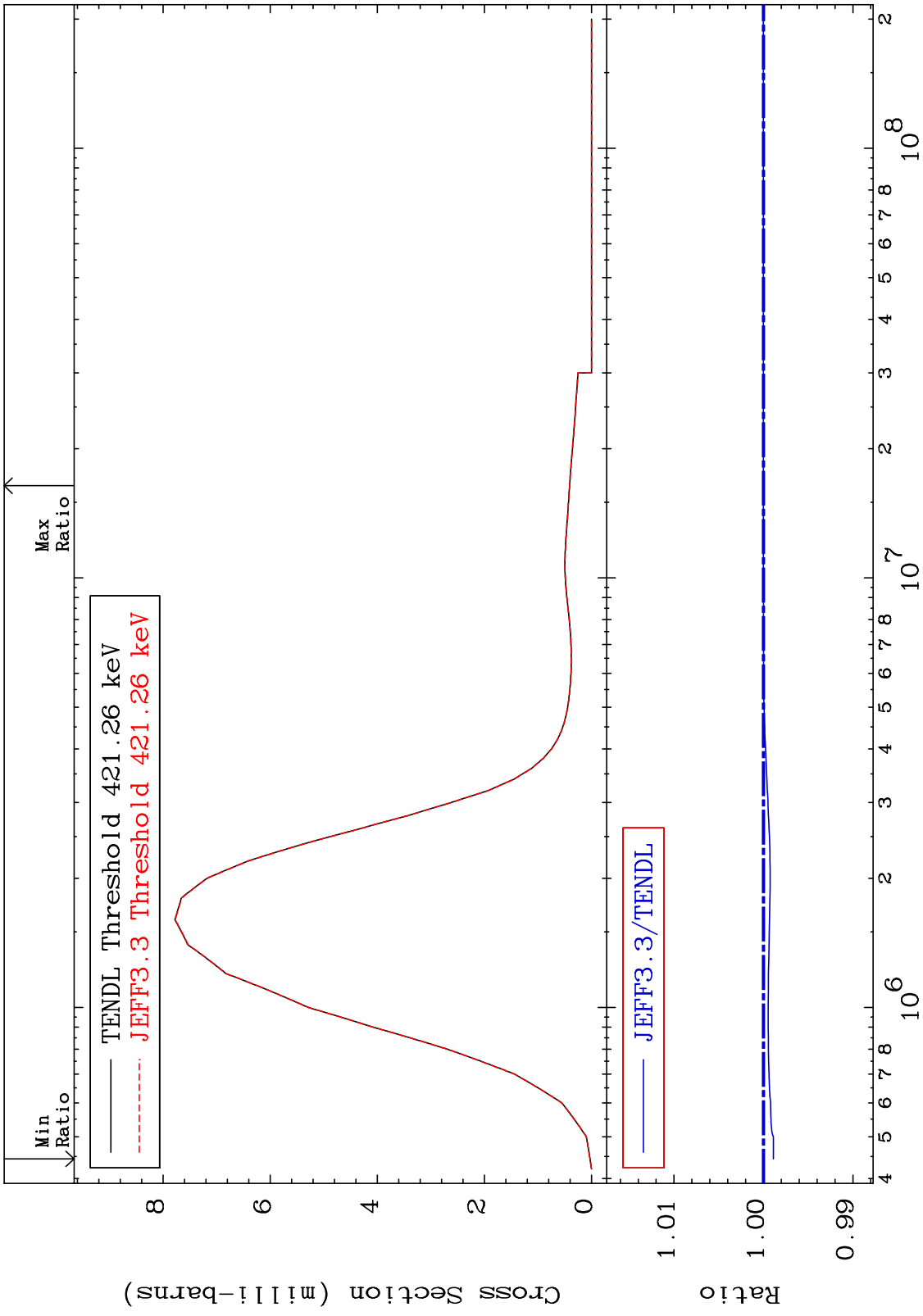


MAT 7634 MT= 62 (n,n') Level Cross Section 76-0s-187  
 -0.167 To 0.000 %

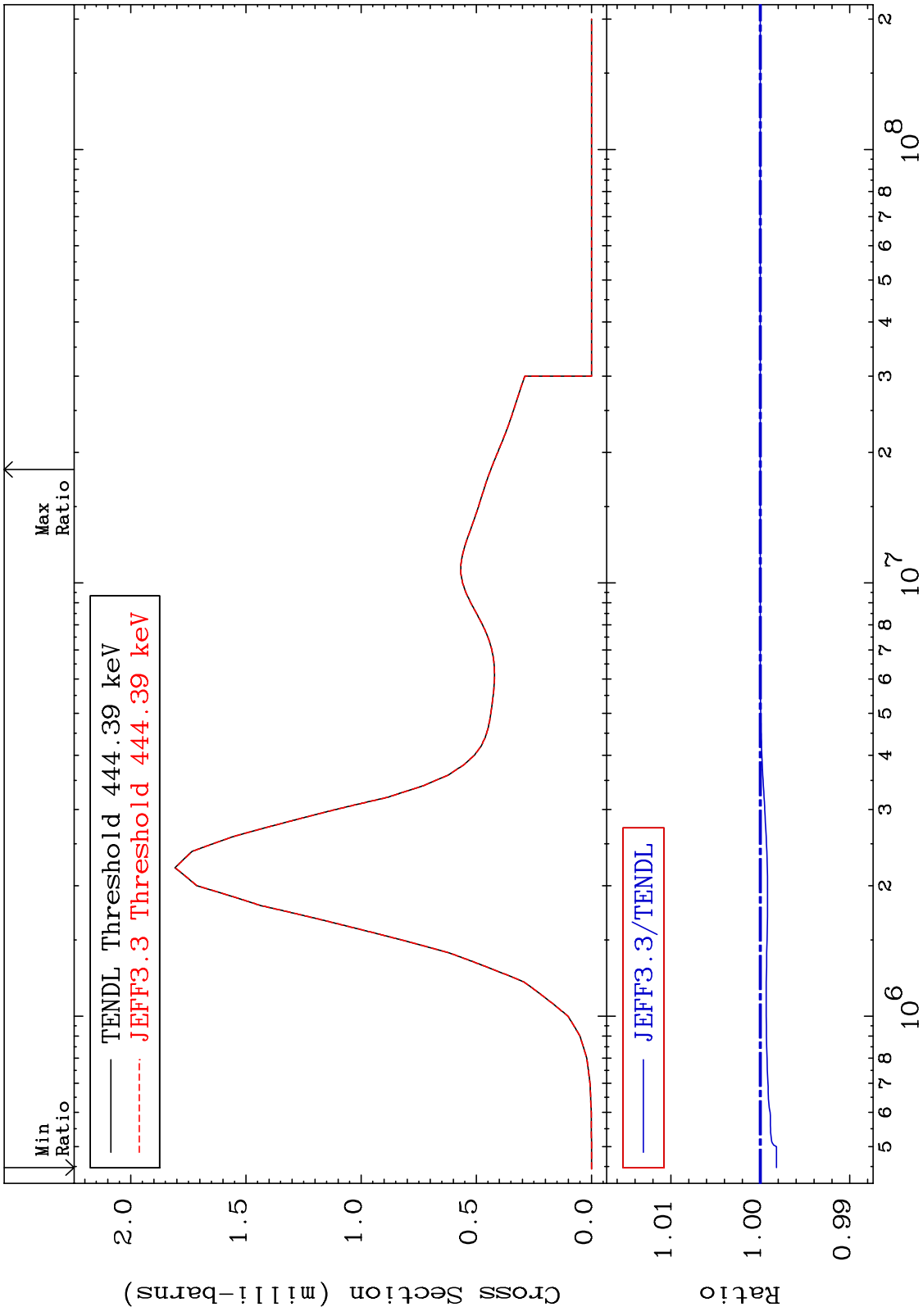




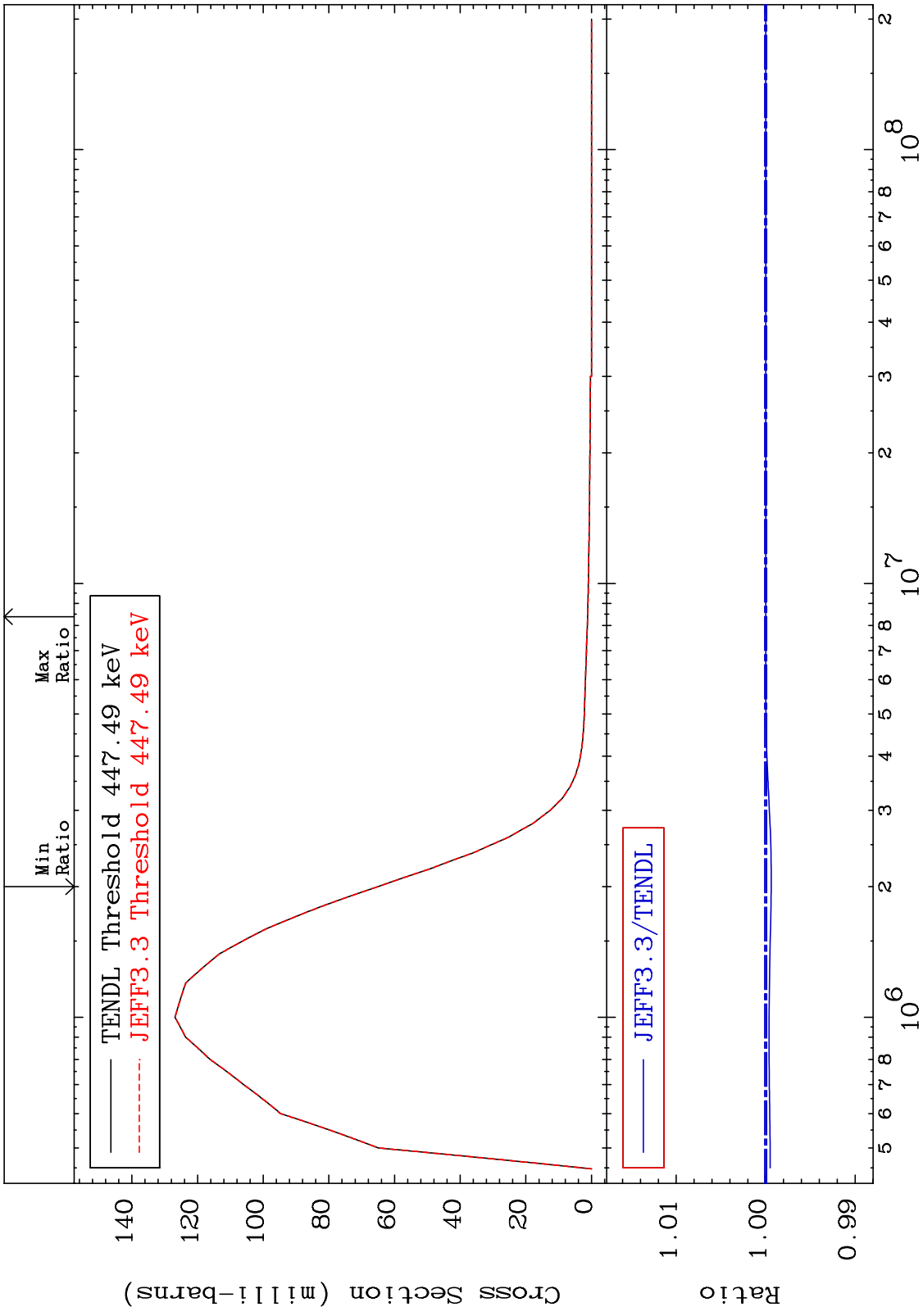
MAT 7634 MT= 63 (n,n') Level Cross Section 76-0s-187  
 -0.111 To 0.000 %



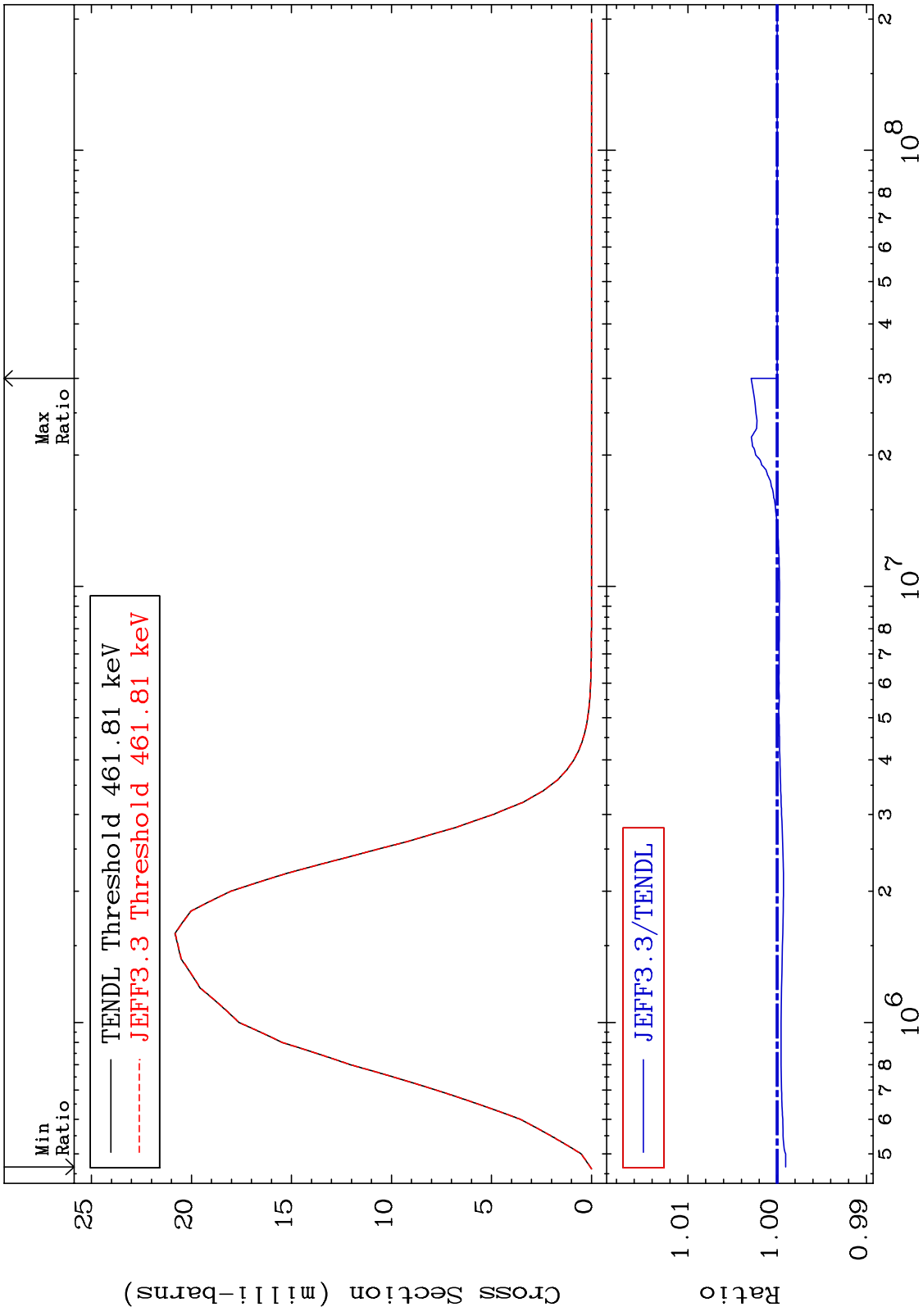
MAT 7634 MT= 64 (n,n') Level Cross Section 76-0s-187  
 -0.182 To 0.000 %



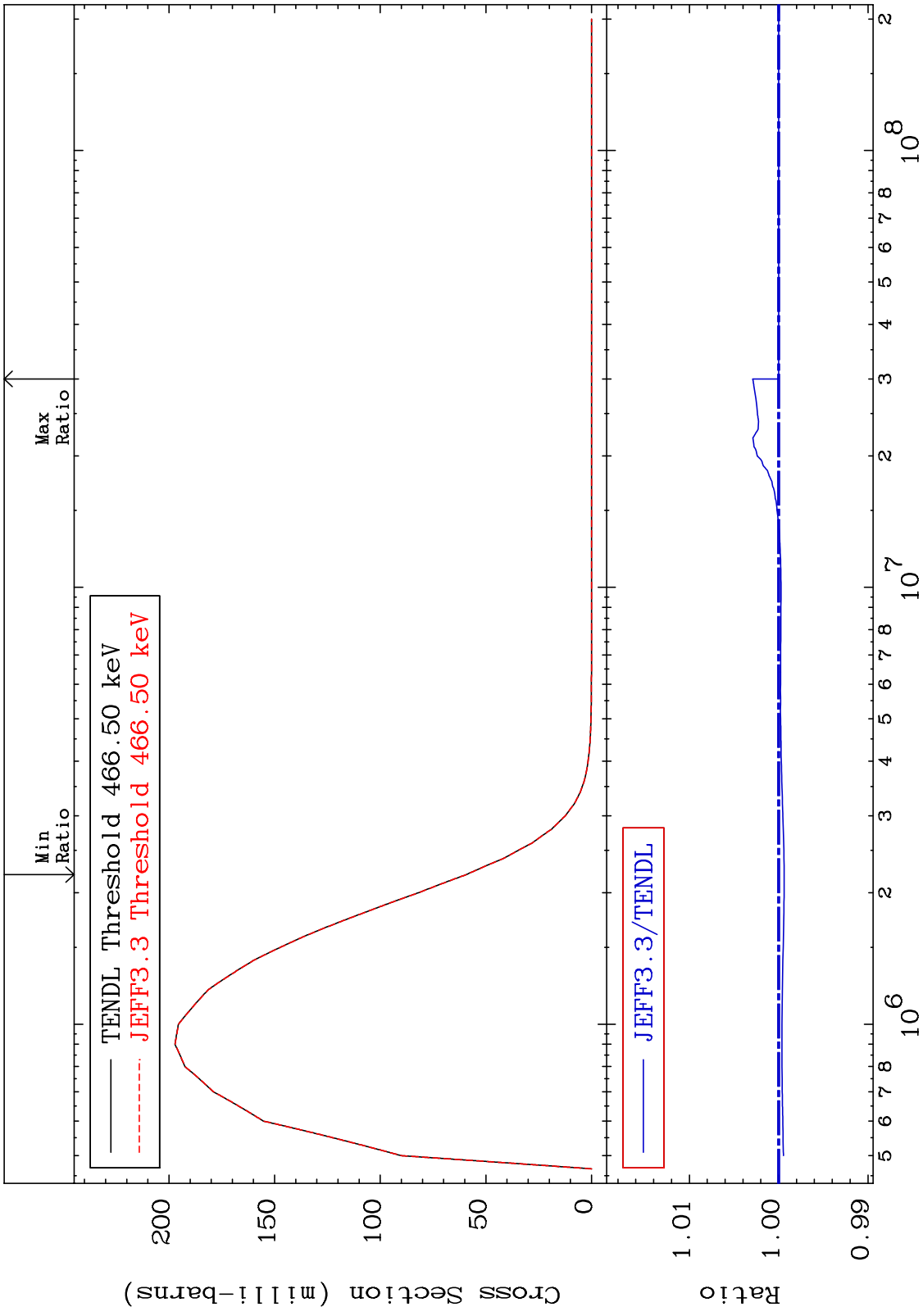
MAT 7634 MT= 65 (n,n') Level Cross Section 76-0s-187  
 -0.062 To 0.000 %



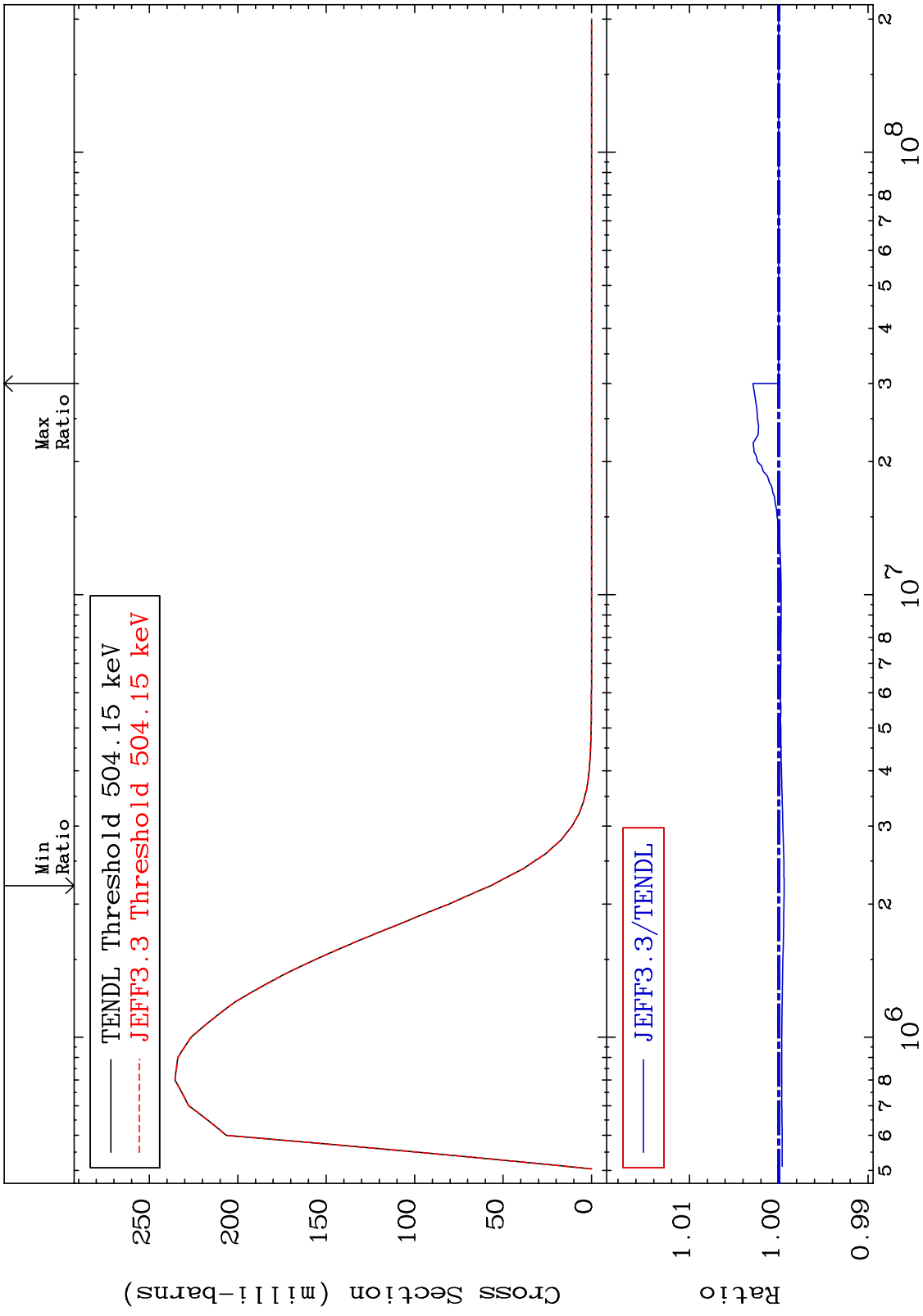
MAT 7634 MT= 66 (n,n') Level Cross Section 76-0s-187  
 -0.095 To 0.291 %



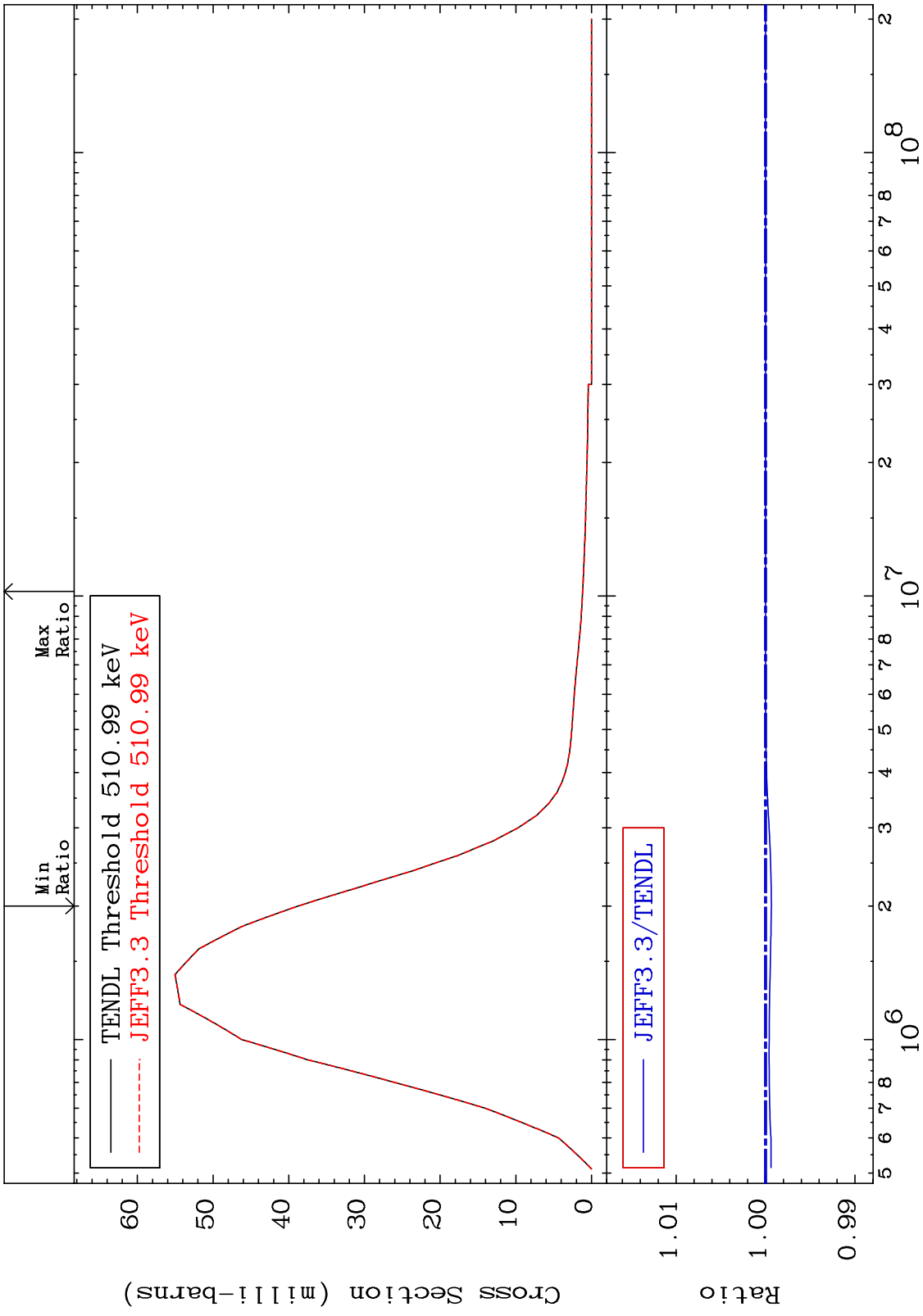
MAT 7634 MT= 67 (n,n') Level Cross Section 76-0s-187  
 -0.062 To 0.291 %



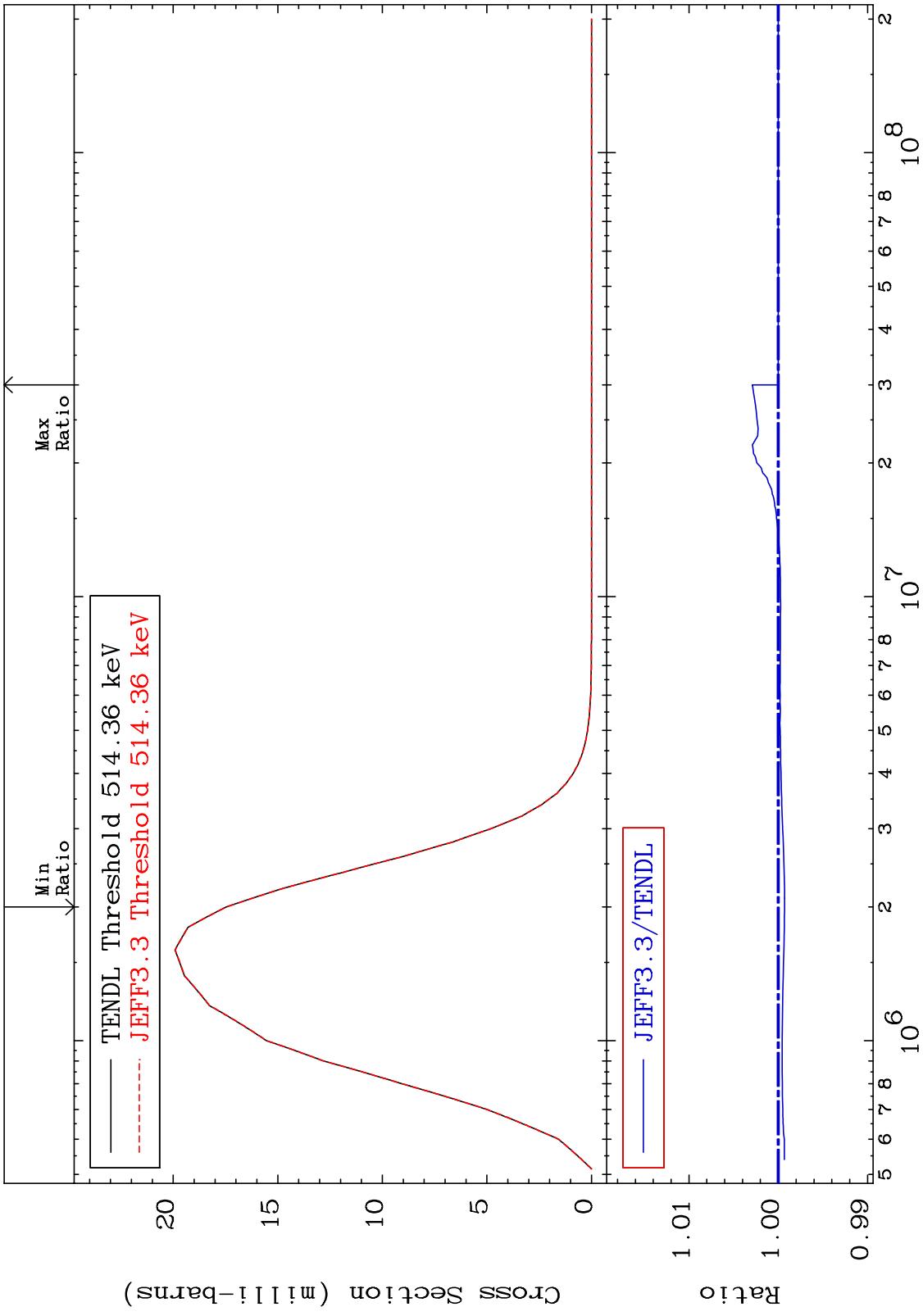
MAT 7634 MT= 68 (n,n') Level Cross Section 76-0s-187  
 -0.059 To 0.291 %



MAT 7634 MT= 69 (n,n') Level Cross Section 76-0s-187  
 -0.065 To 0.000 %

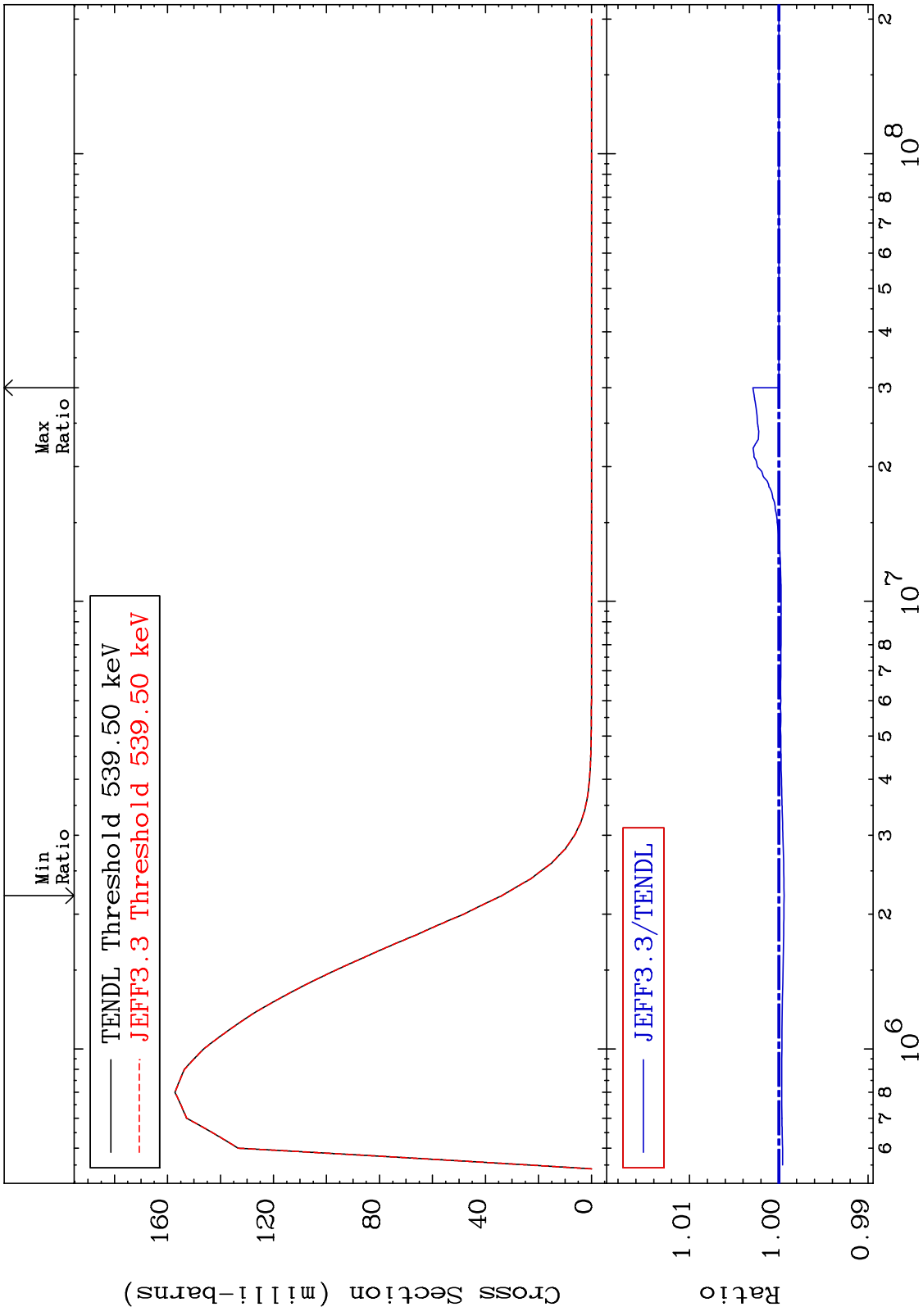


MAT 7634 MT= 70 (n,n') Level Cross Section 76-Os-187 -0.071 To 0.291 %



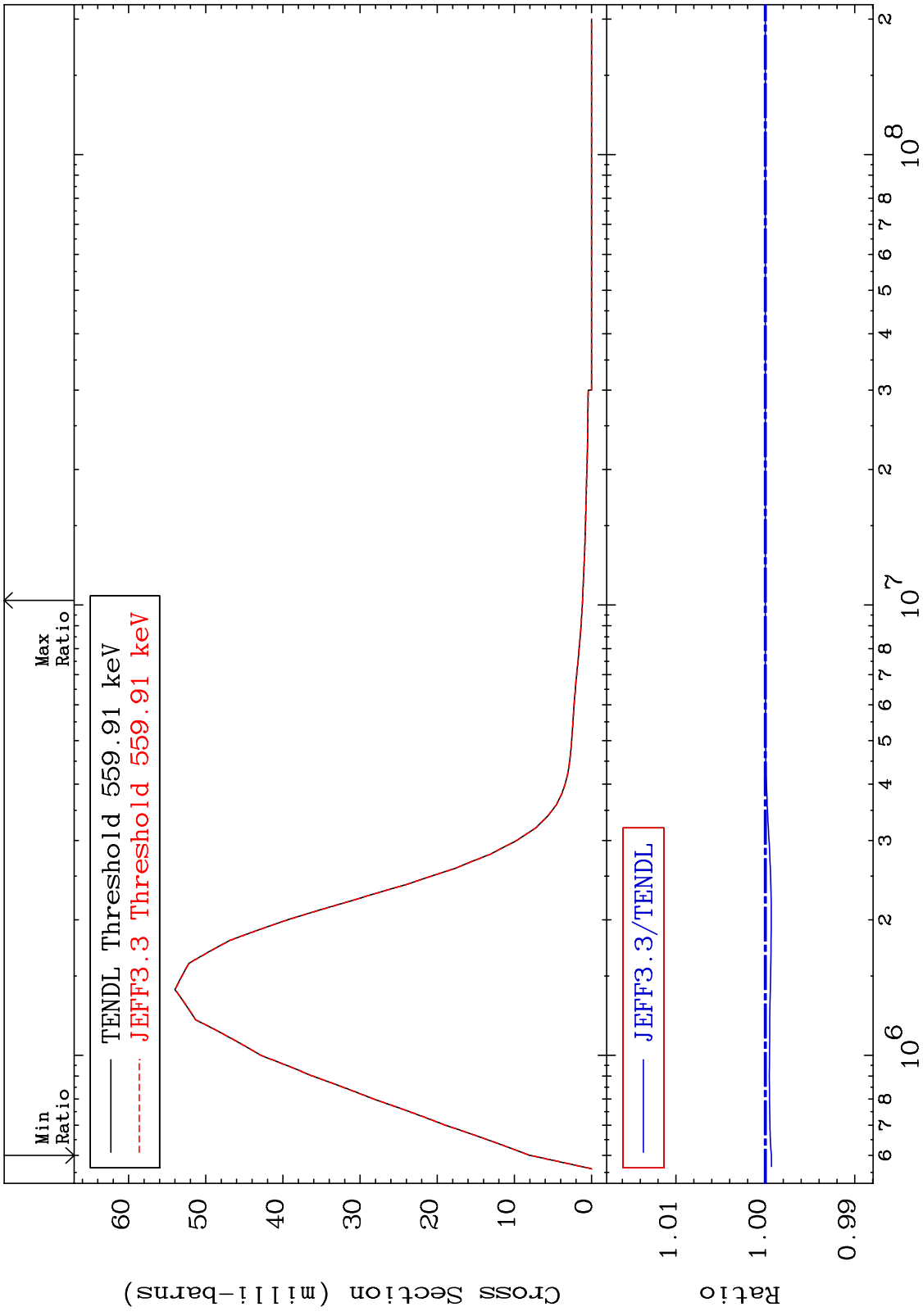


MAT 7634 MT= 71 (n,n') Level Cross Section 76-0s-187  
 -0.059 To 0.290 %

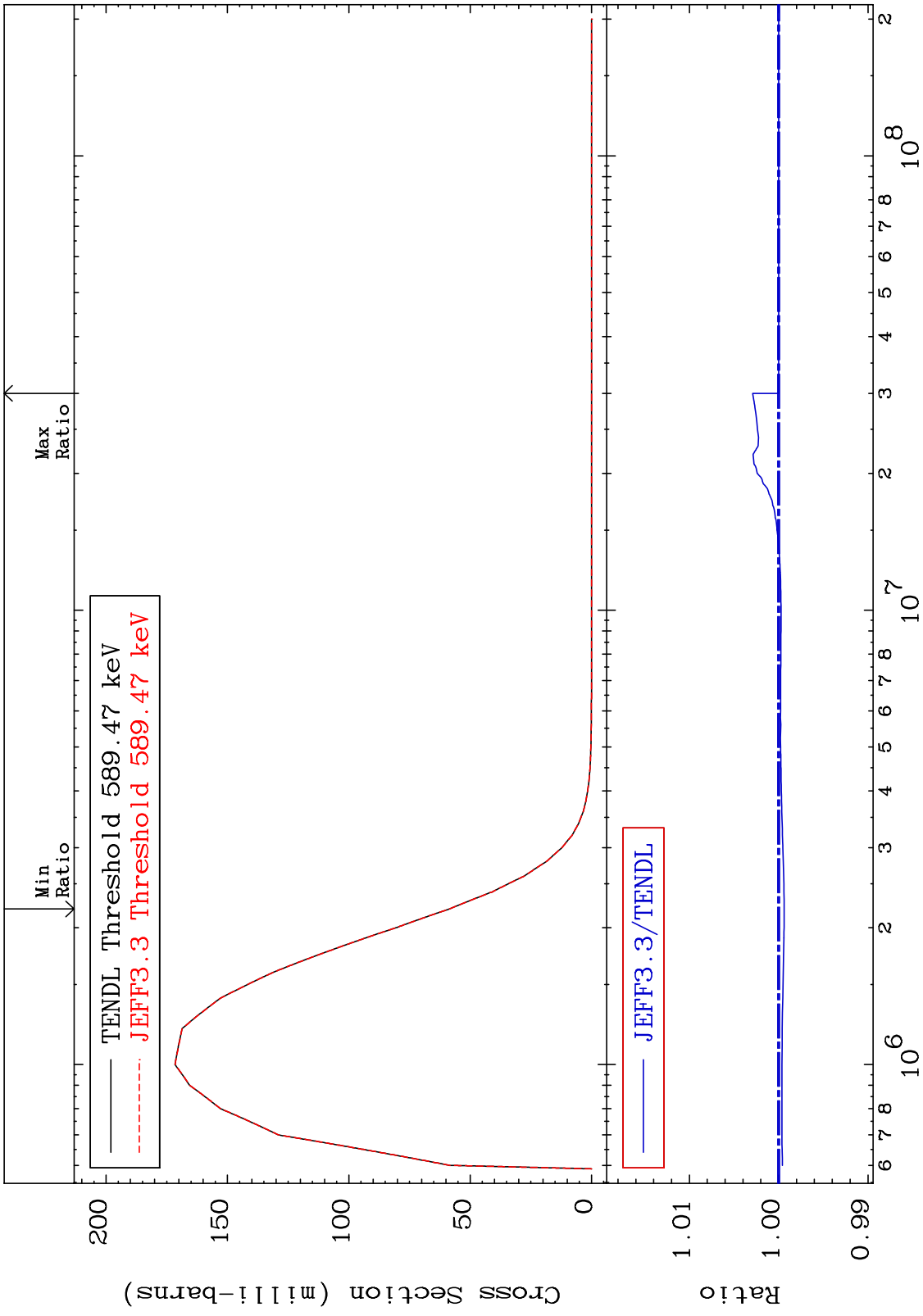


40 Incident Energy (eV) 76-0s-187

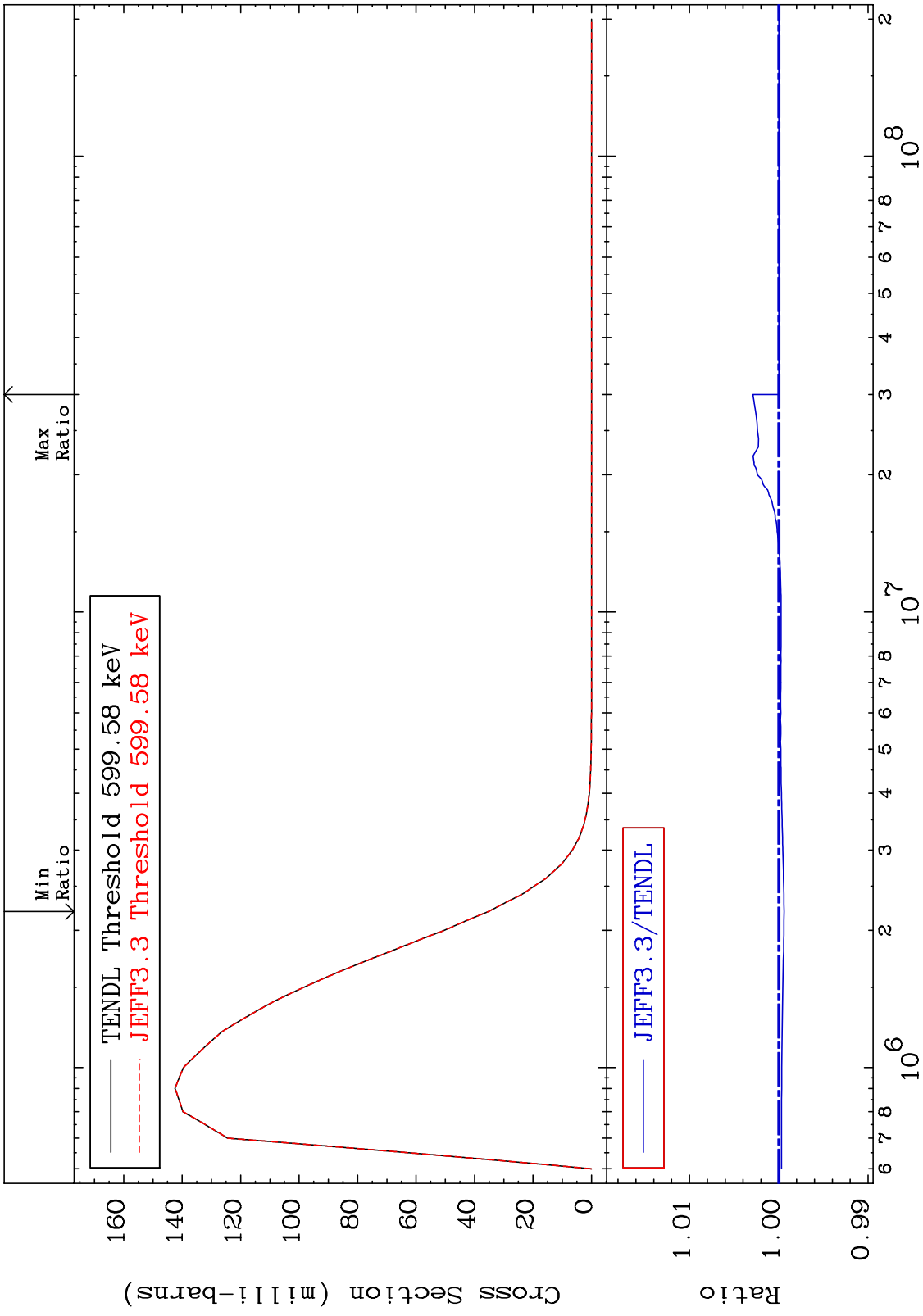
MAT 7634 MT= 72 (n,n') Level Cross Section 76-0s-187  
 -0.068 To 0.000 %



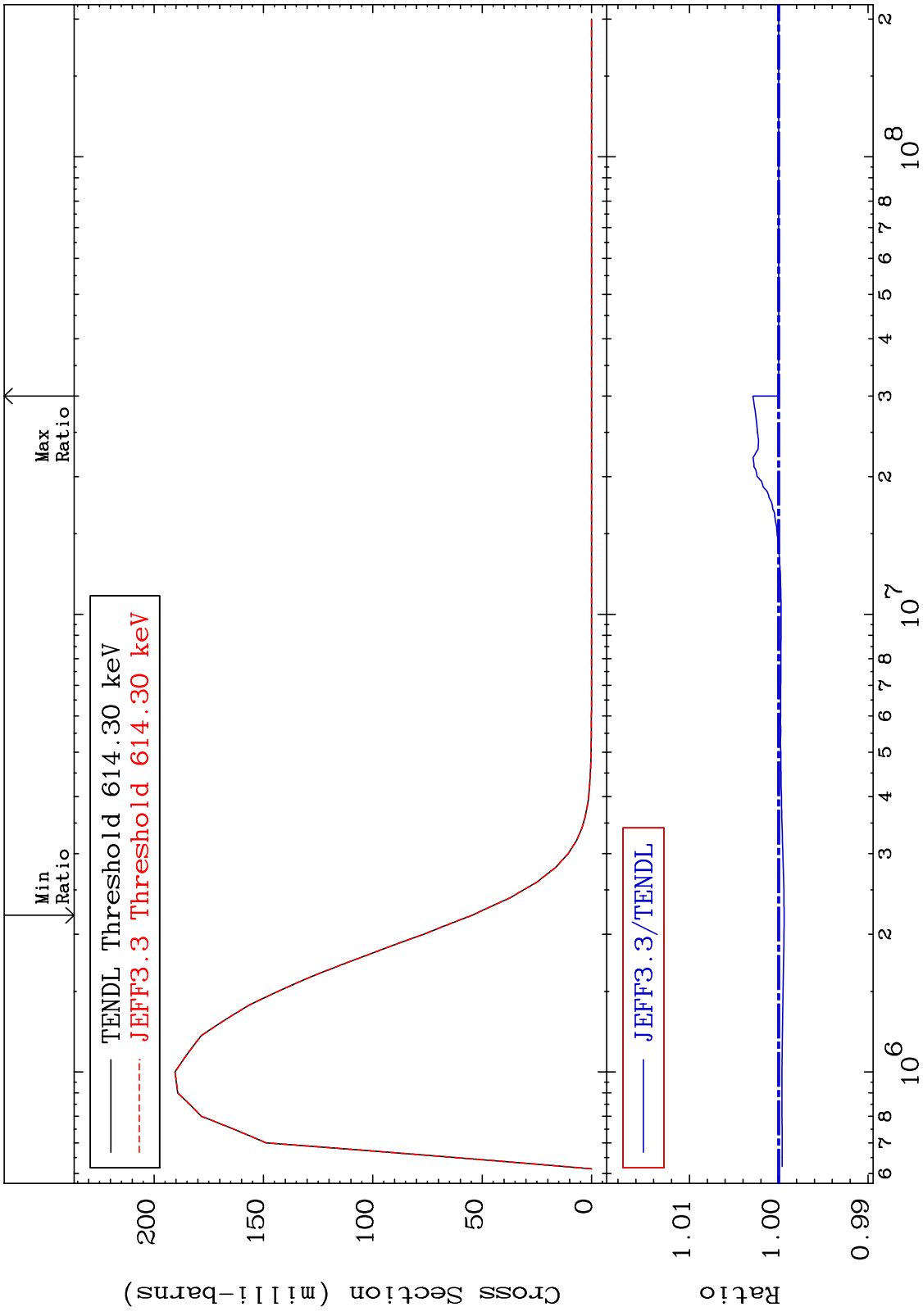
MAT 7634 MT= 73 (n,n') Level Cross Section 76-0s-187  
 -0.061 To 0.290 %



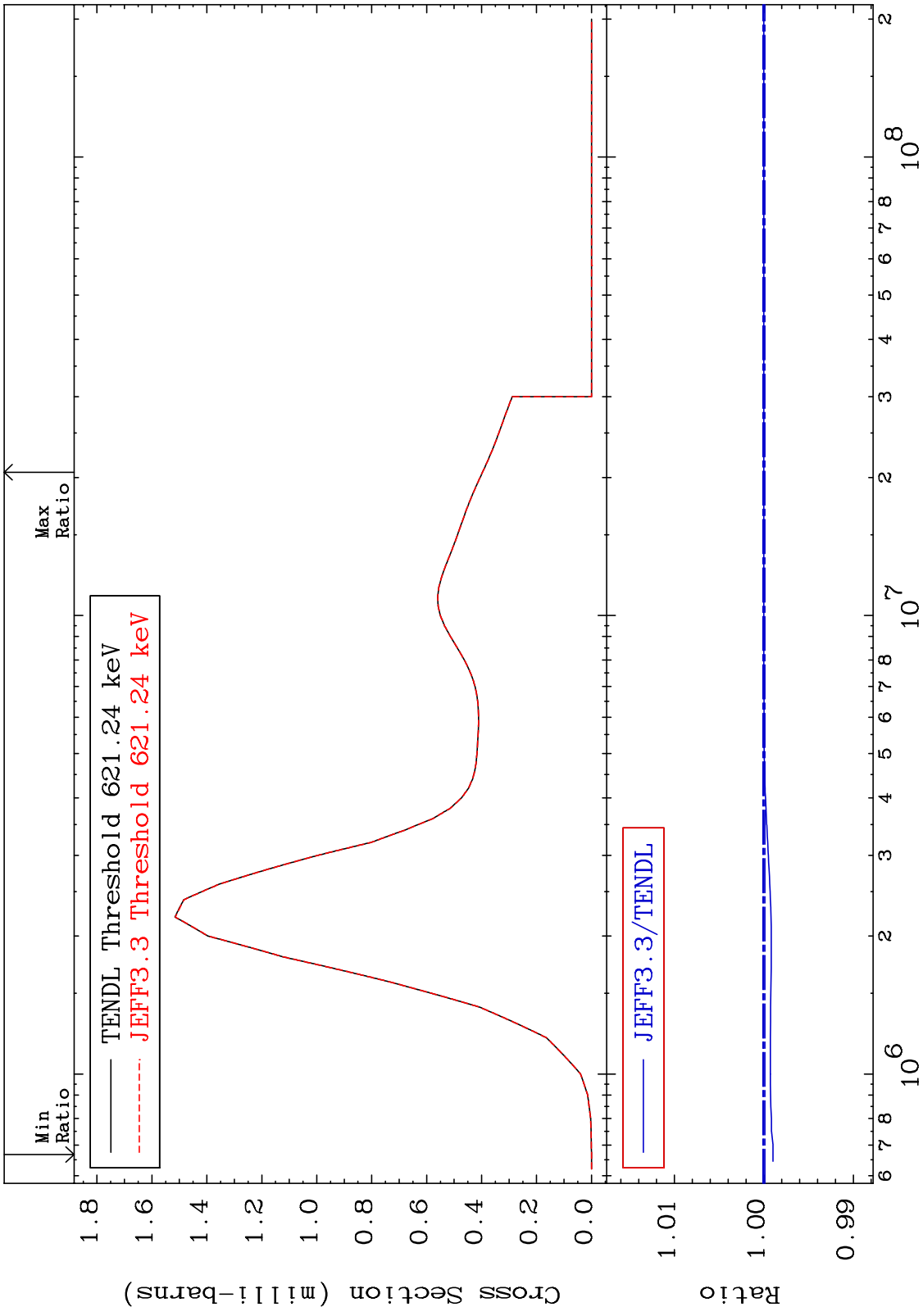
MAT 7634 MT= 74 (n,n') Level Cross Section 76-Os-187 -0.058 To 0.290 %



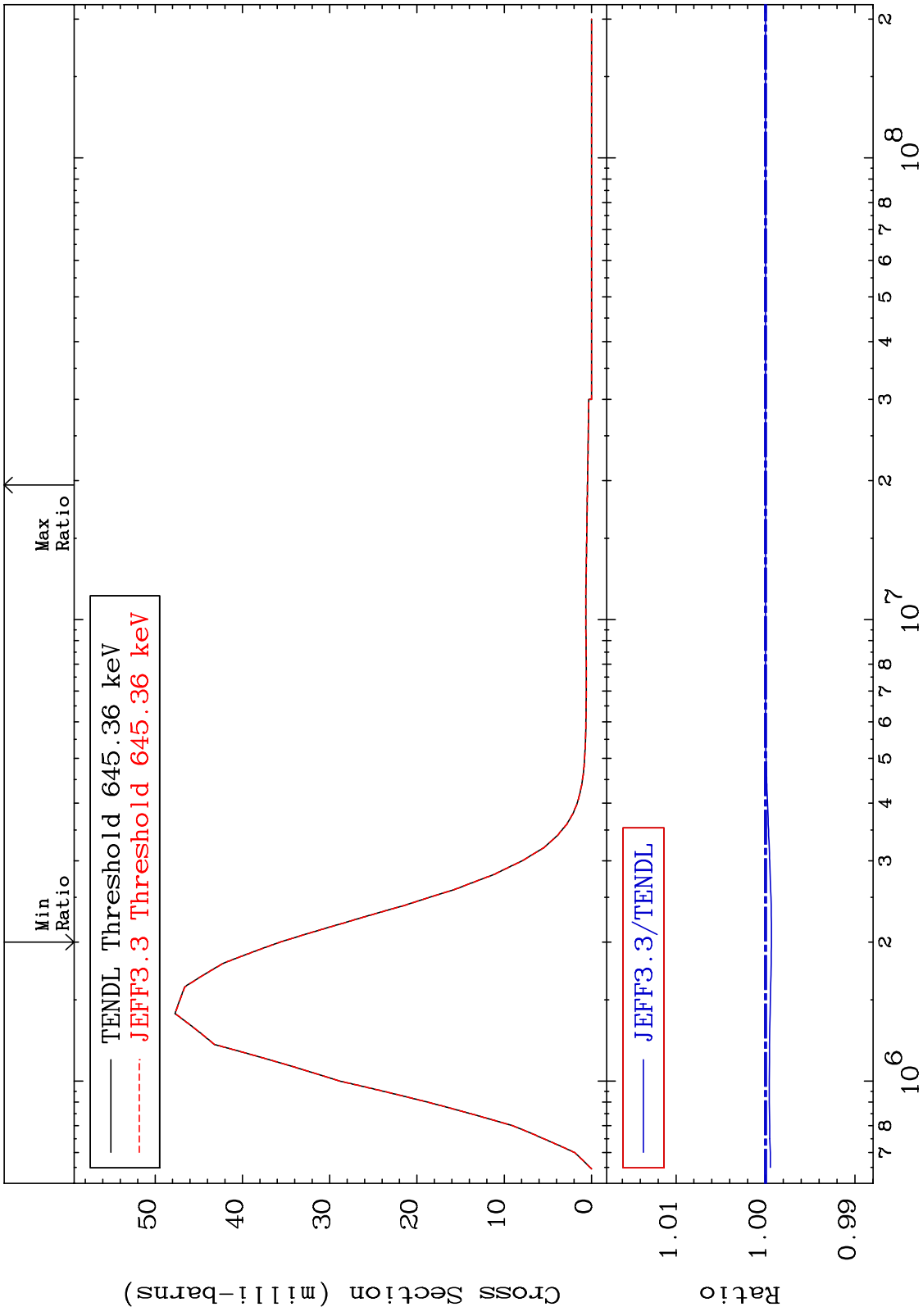
MAT 7634 MT= 75 (n,n') Level Cross Section 76-0s-187  
 -0.060 To 0.290 %



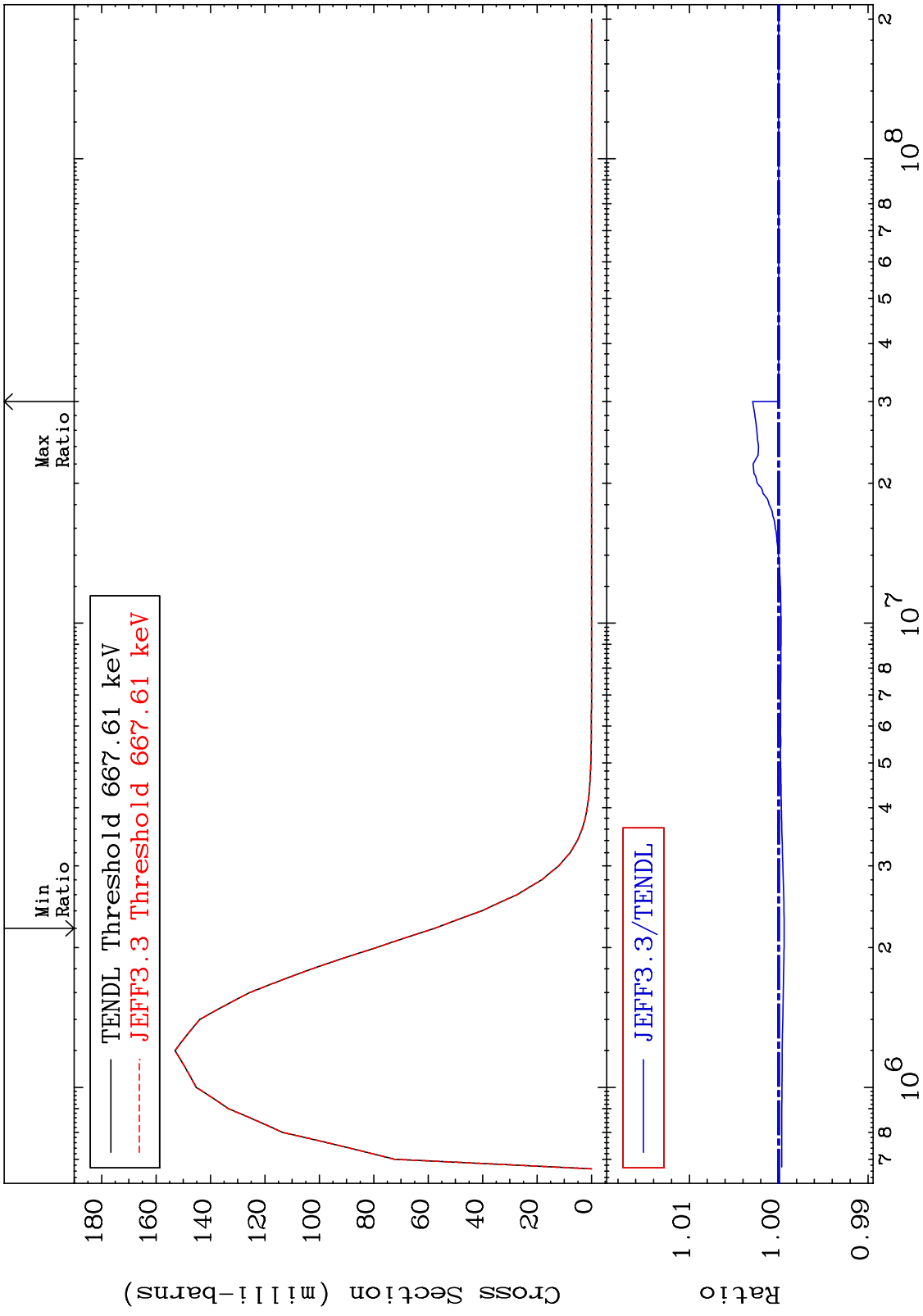
MAT 7634 MT= 76 (n,n') Level Cross Section 76-0s-187  
 -0.102 To 0.000 %



MAT 7634 MT= 77 (n,n') Level Cross Section 76-0s-187  
 -0.066 To 0.000 %

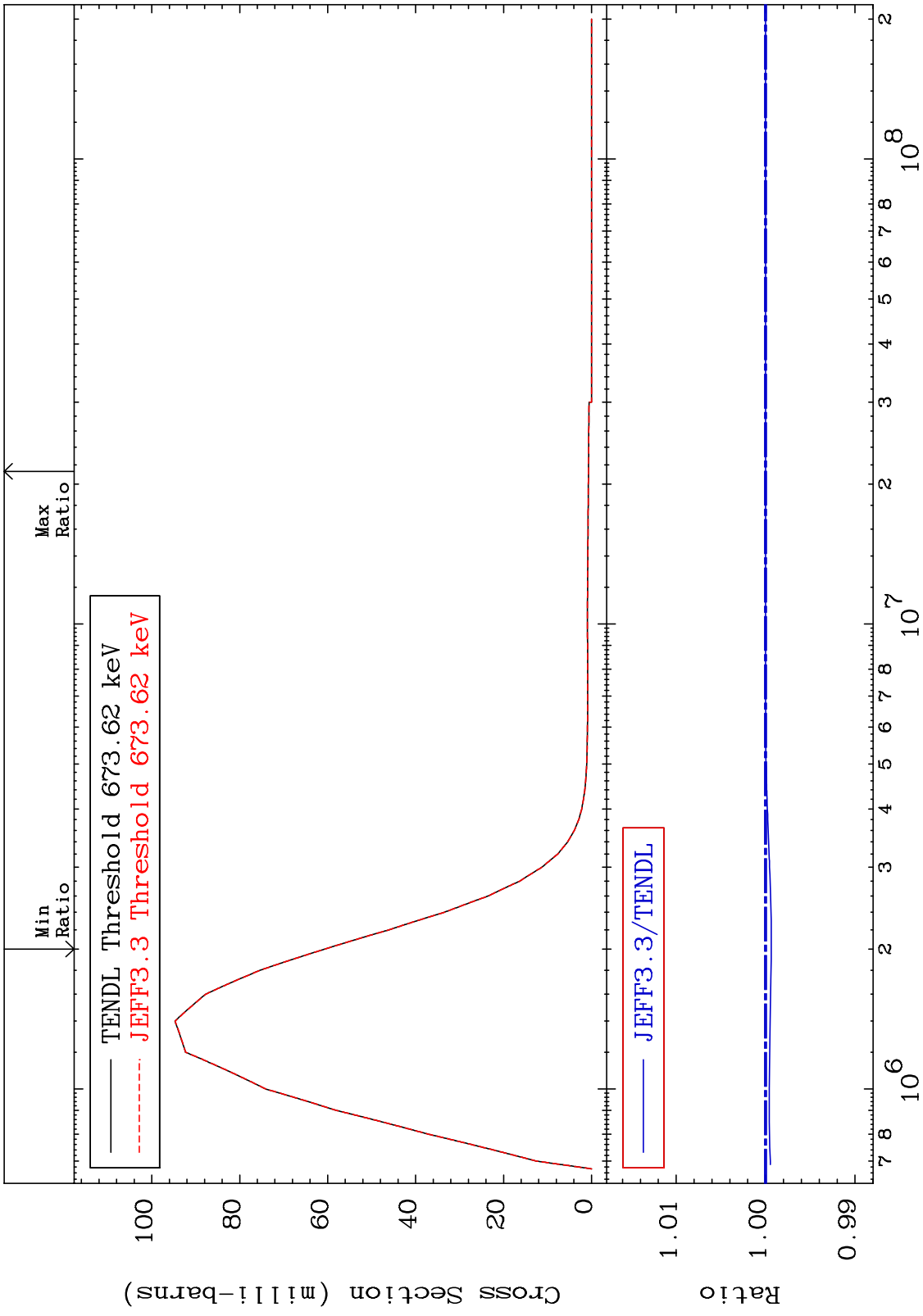


MAT 7634 MT= 78 (n,n') Level Cross Section 76-Os-187  
 -0.061 To 0.290 %

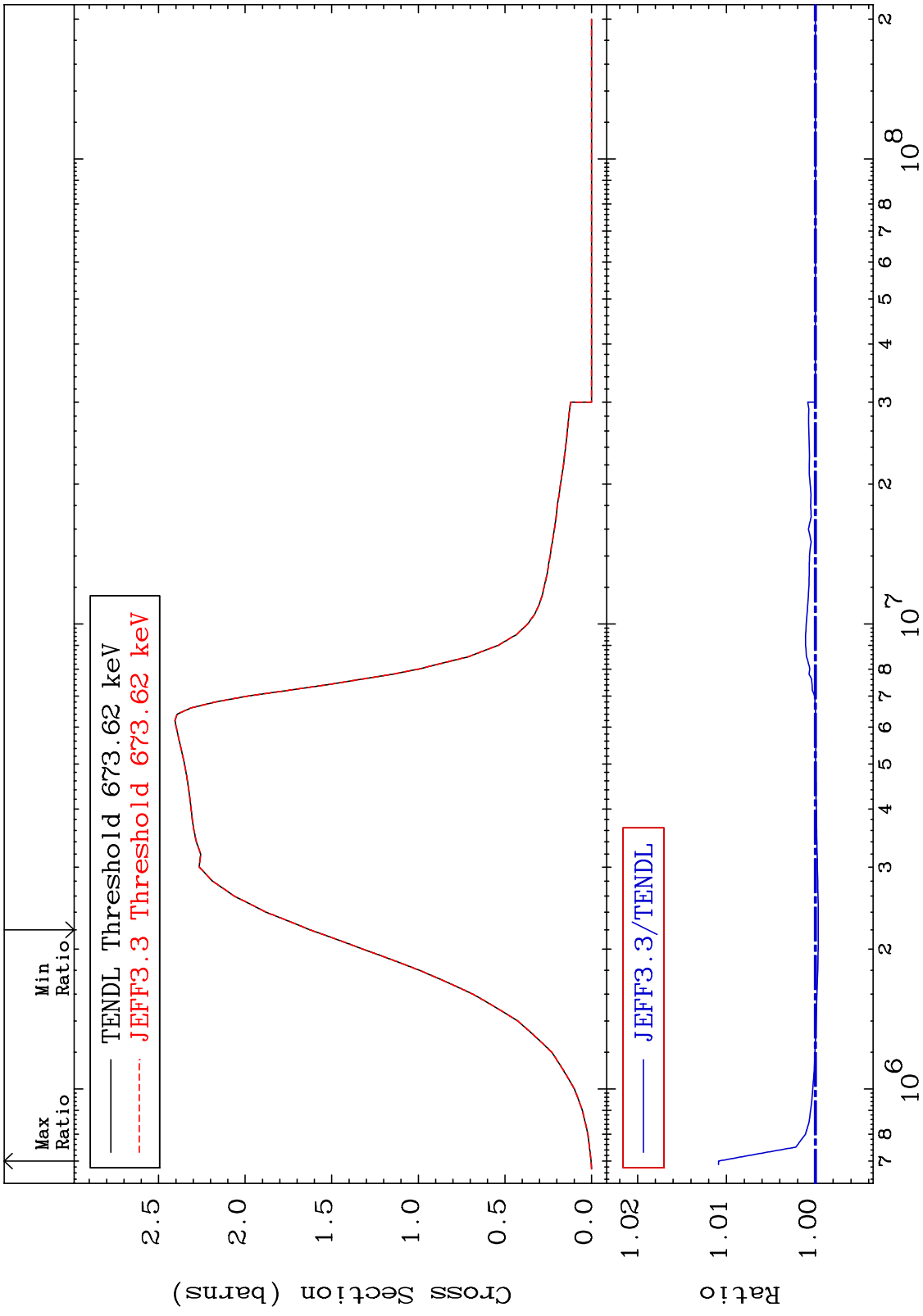




MAT 7634 MT= 79 (n,n') Level Cross Section 76-0s-187  
 -0.064 To 0.000 %



MAT 7634 (n,n') Continuum Cross Section 76-0s-187  
 -0.032 To 1.089 %



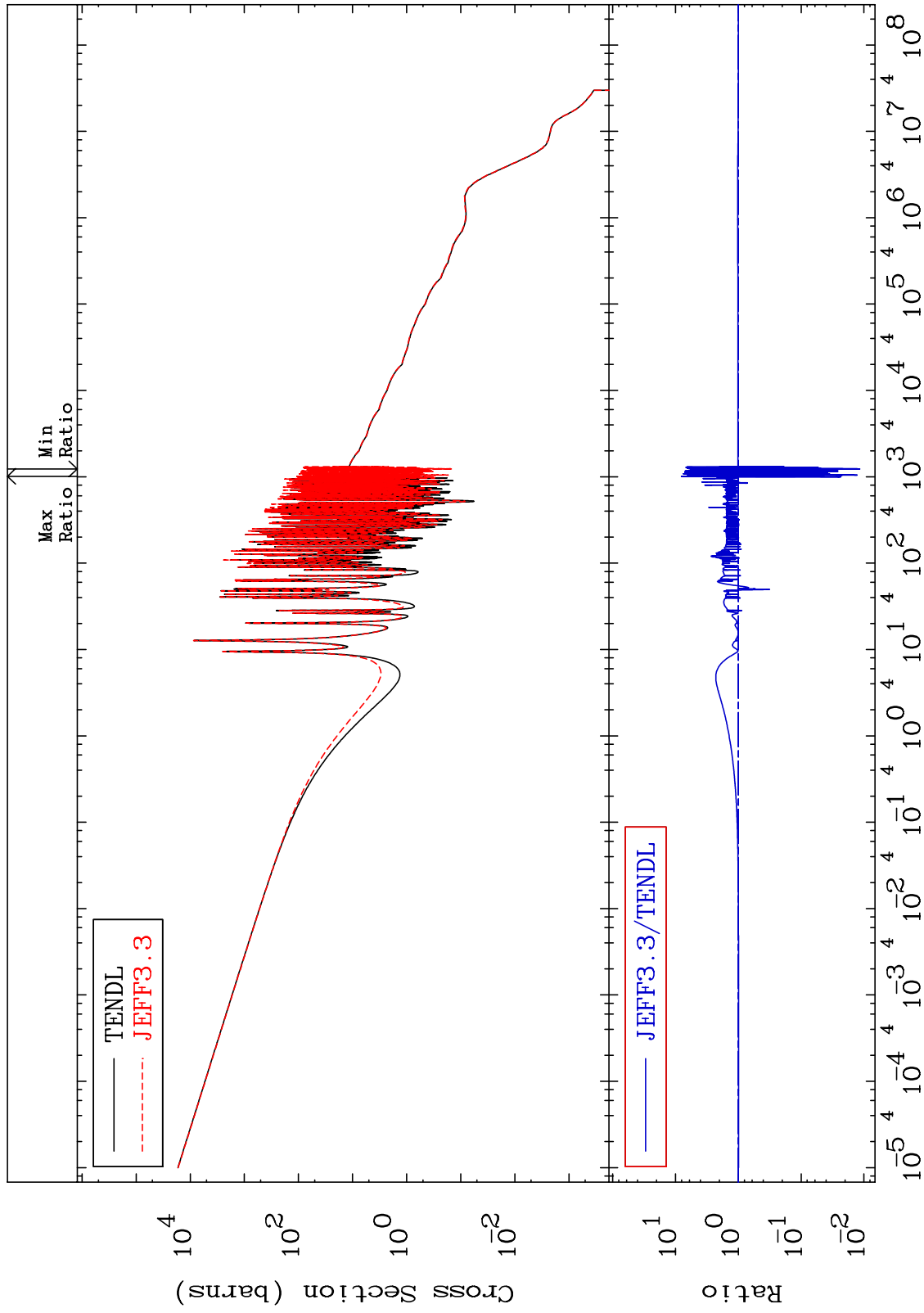
MAT 7634

(n,  $\gamma$ )

76-0s-187

-98.83 To 708.2 %

Cross Section



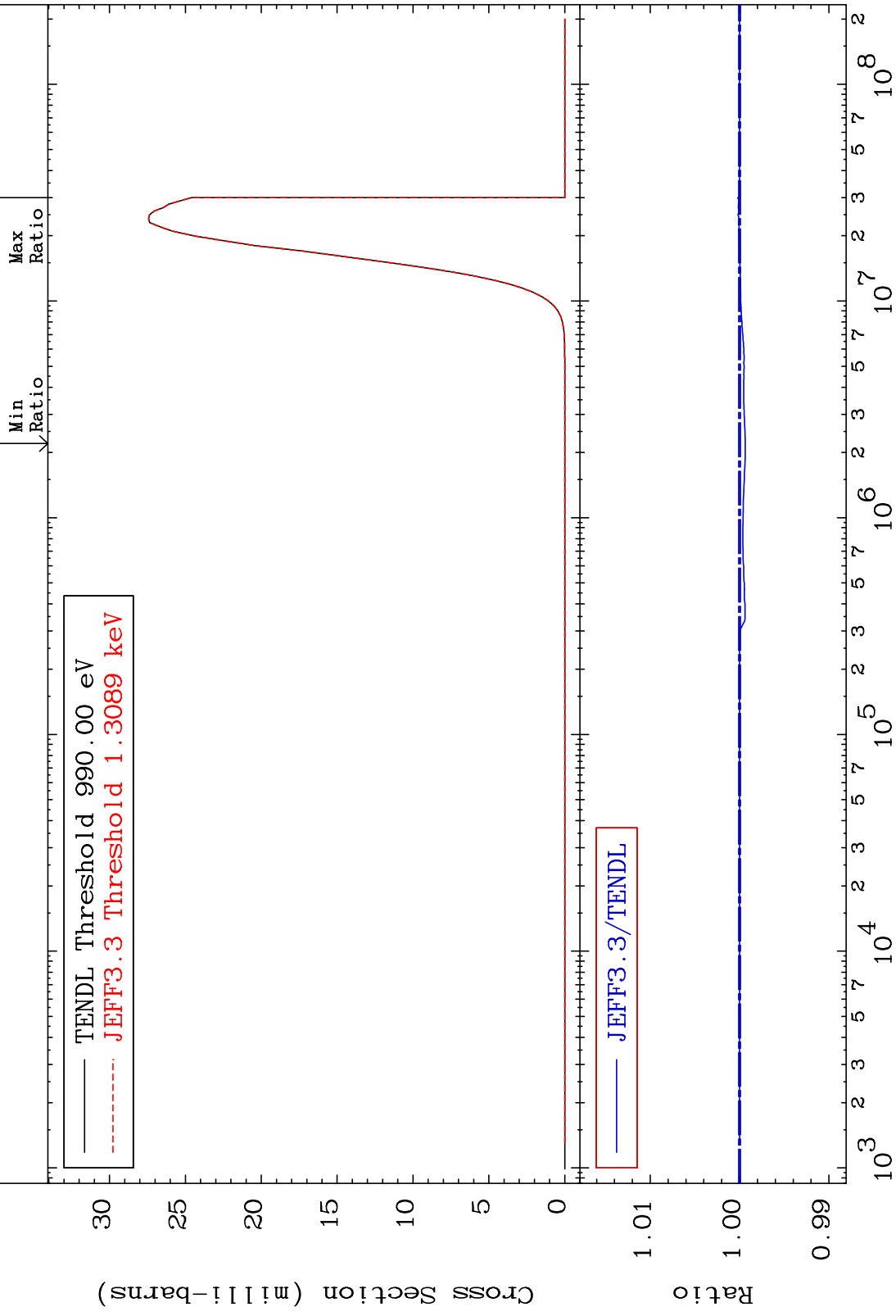
MAT 7634

(n,p)

76-Os-187

Cross Section

-0.064 To 0.019 %

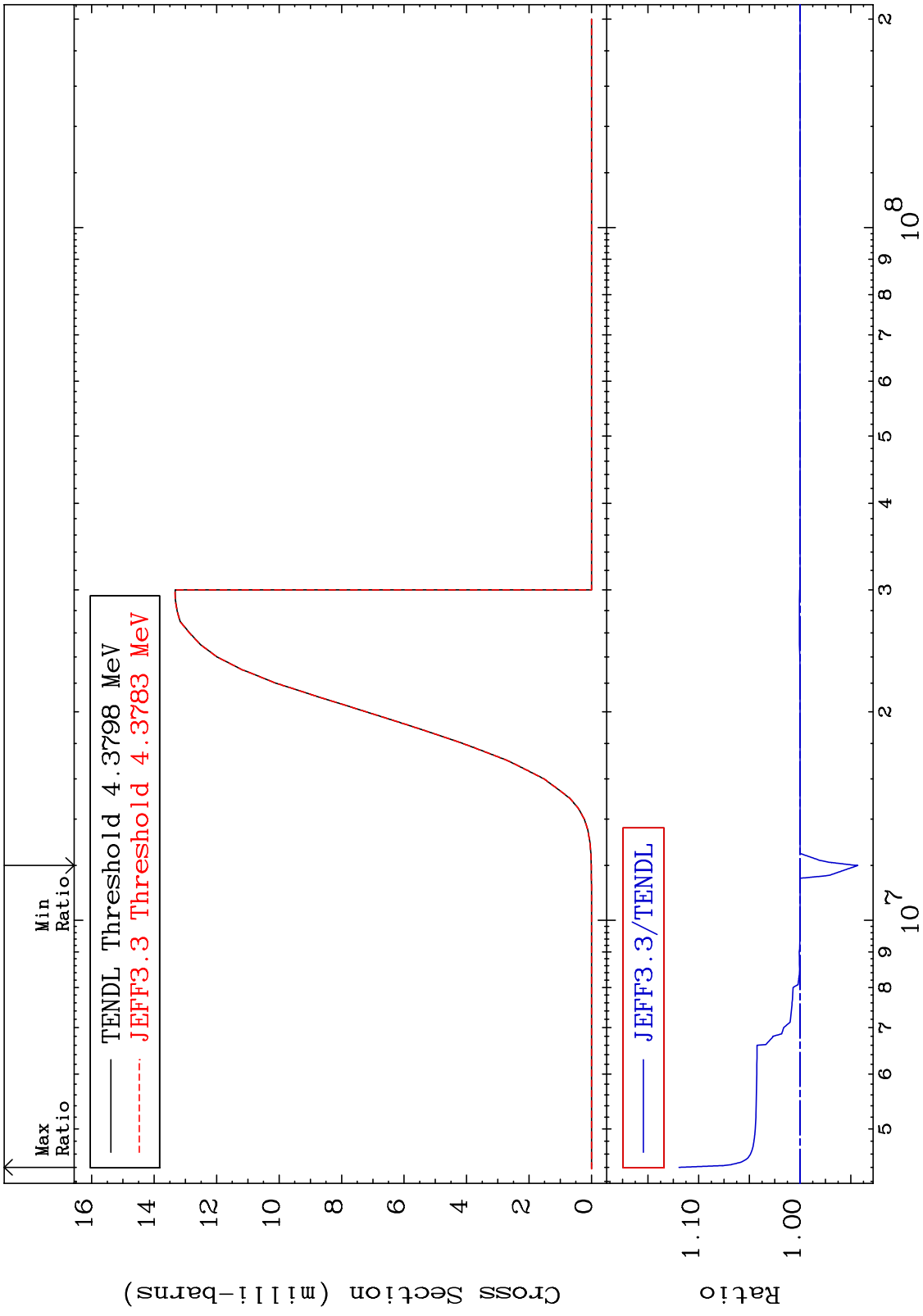


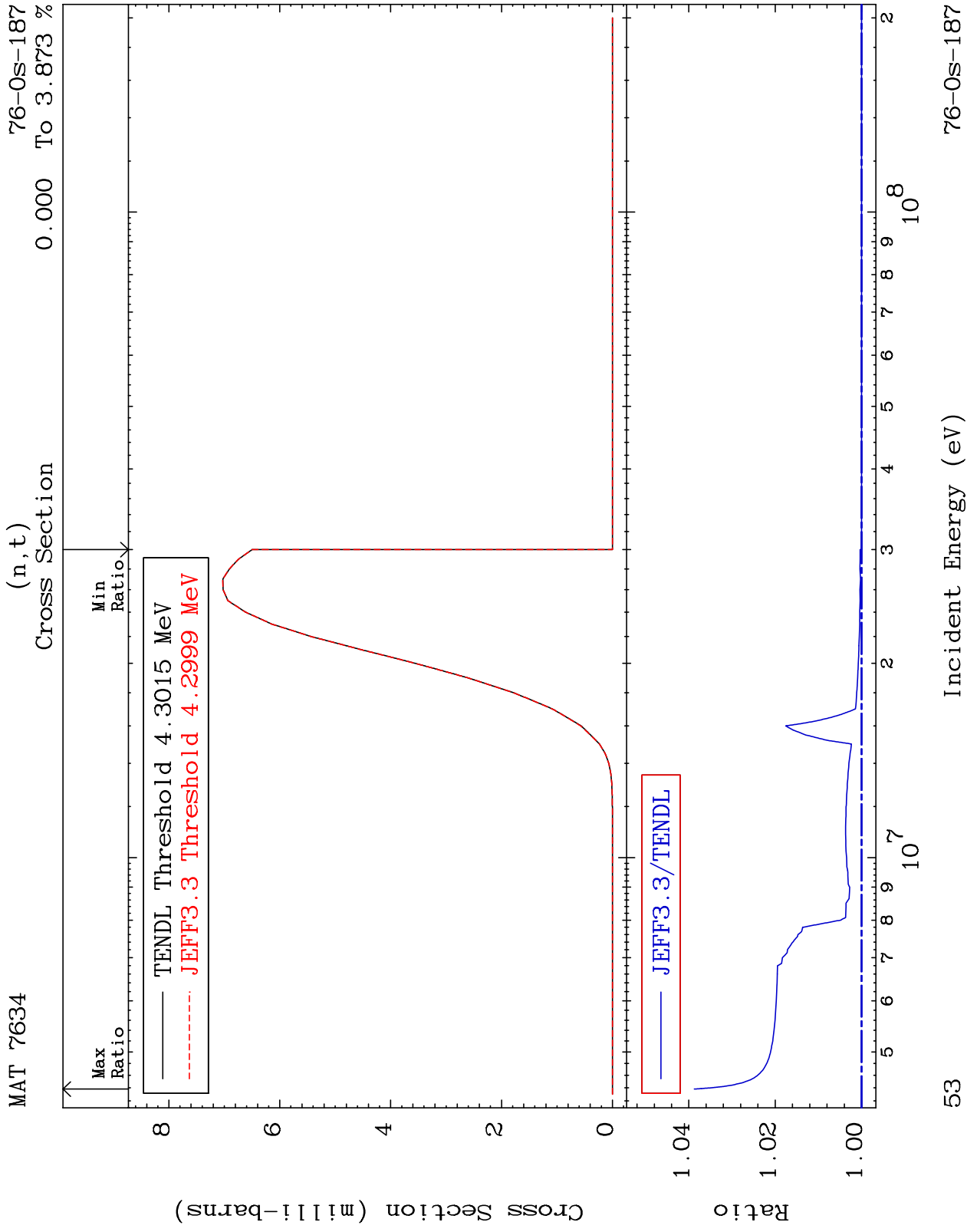
51

Incident Energy (eV)

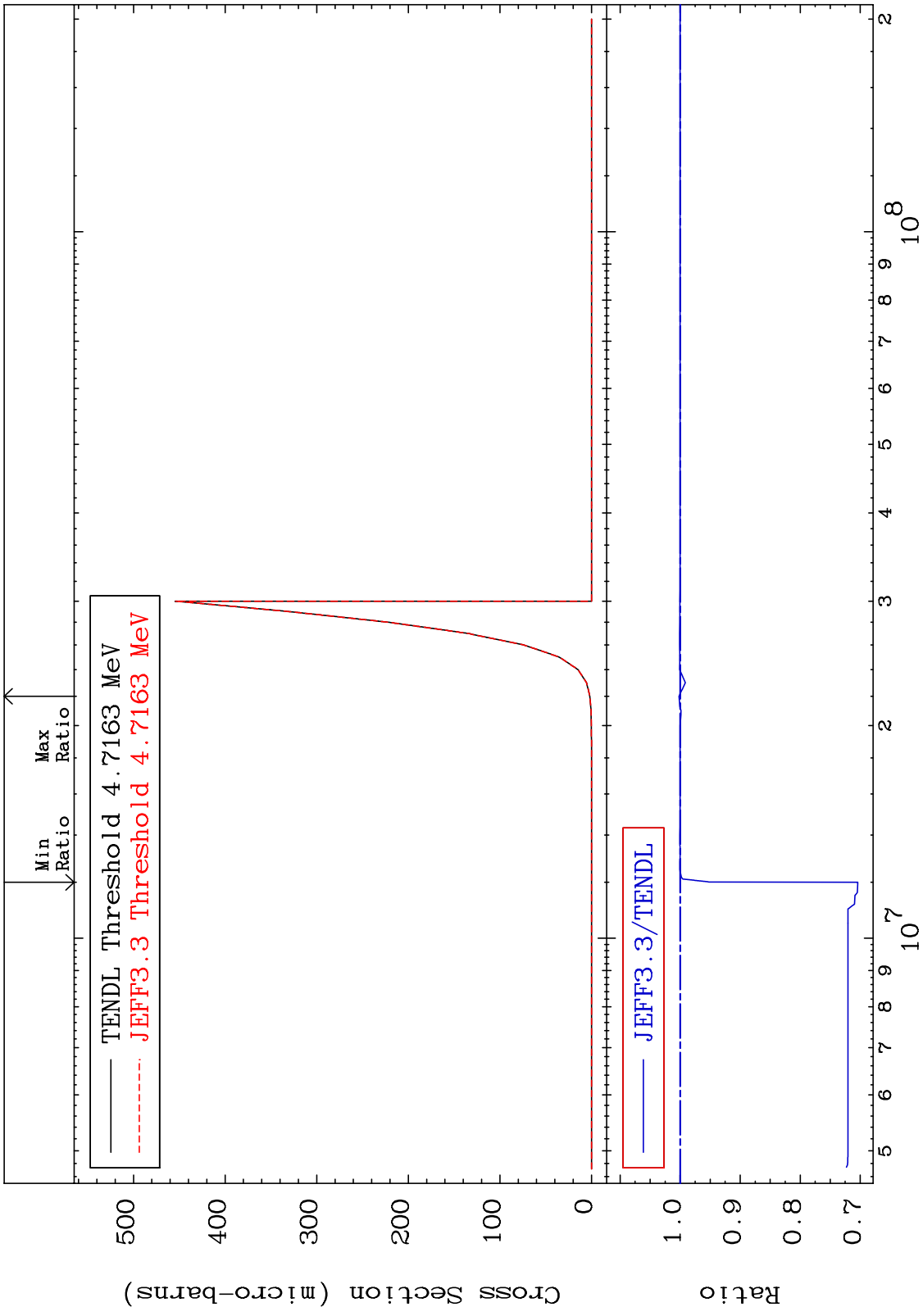
76-Os-187

MAT 7634 (n,d) Cross Section 76-Os-187  
 -5.698 To 11.93 %





MAT 7634 (n, He-3) 76-Os-187  
 -29.60 To 0.184 %  
 Cross Section



Incident Energy (eV) 76-Os-187

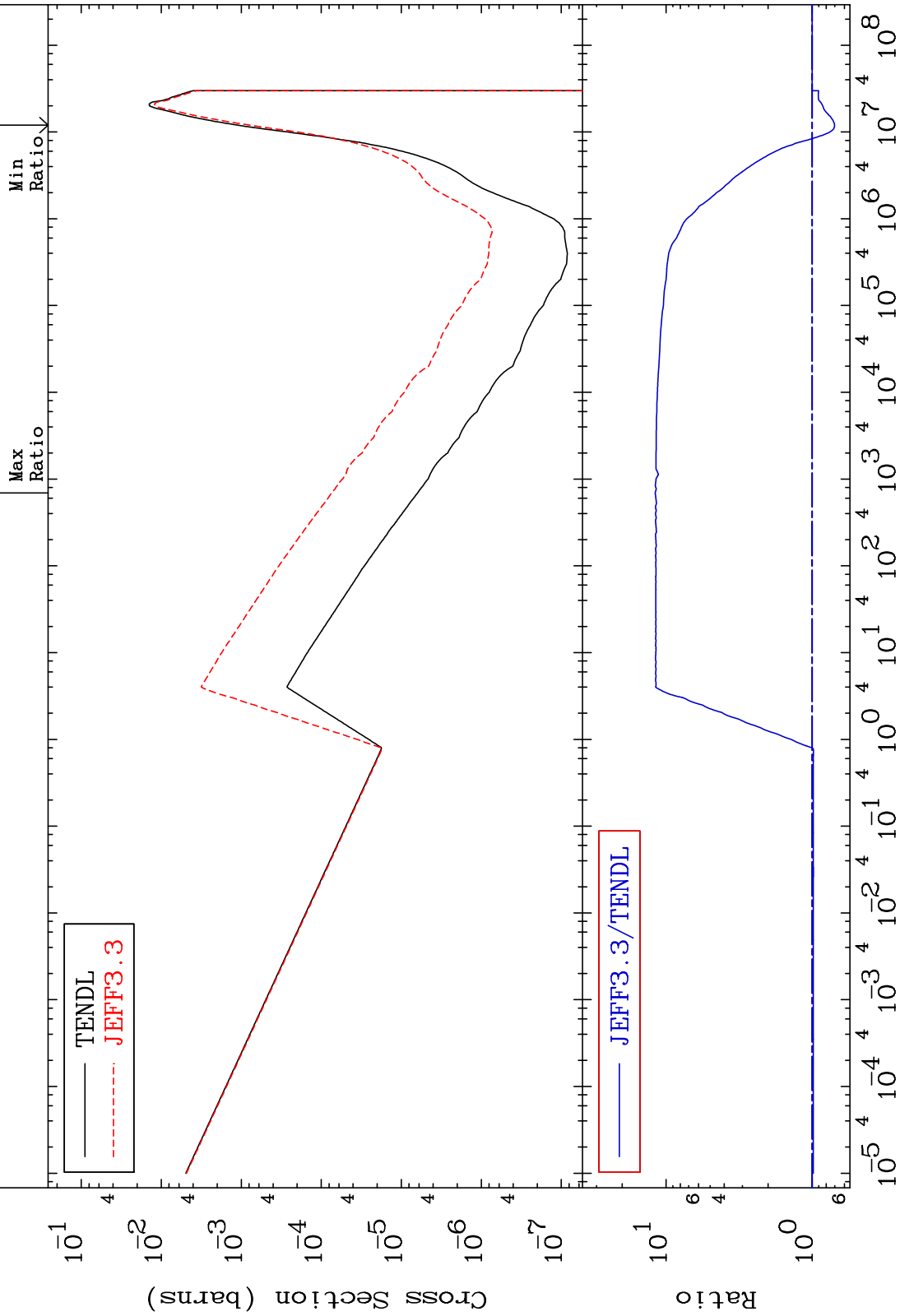
MAT 7634

(n,  $\alpha$ )

76-0s-187

-29.86 To 1089. %

Cross Section





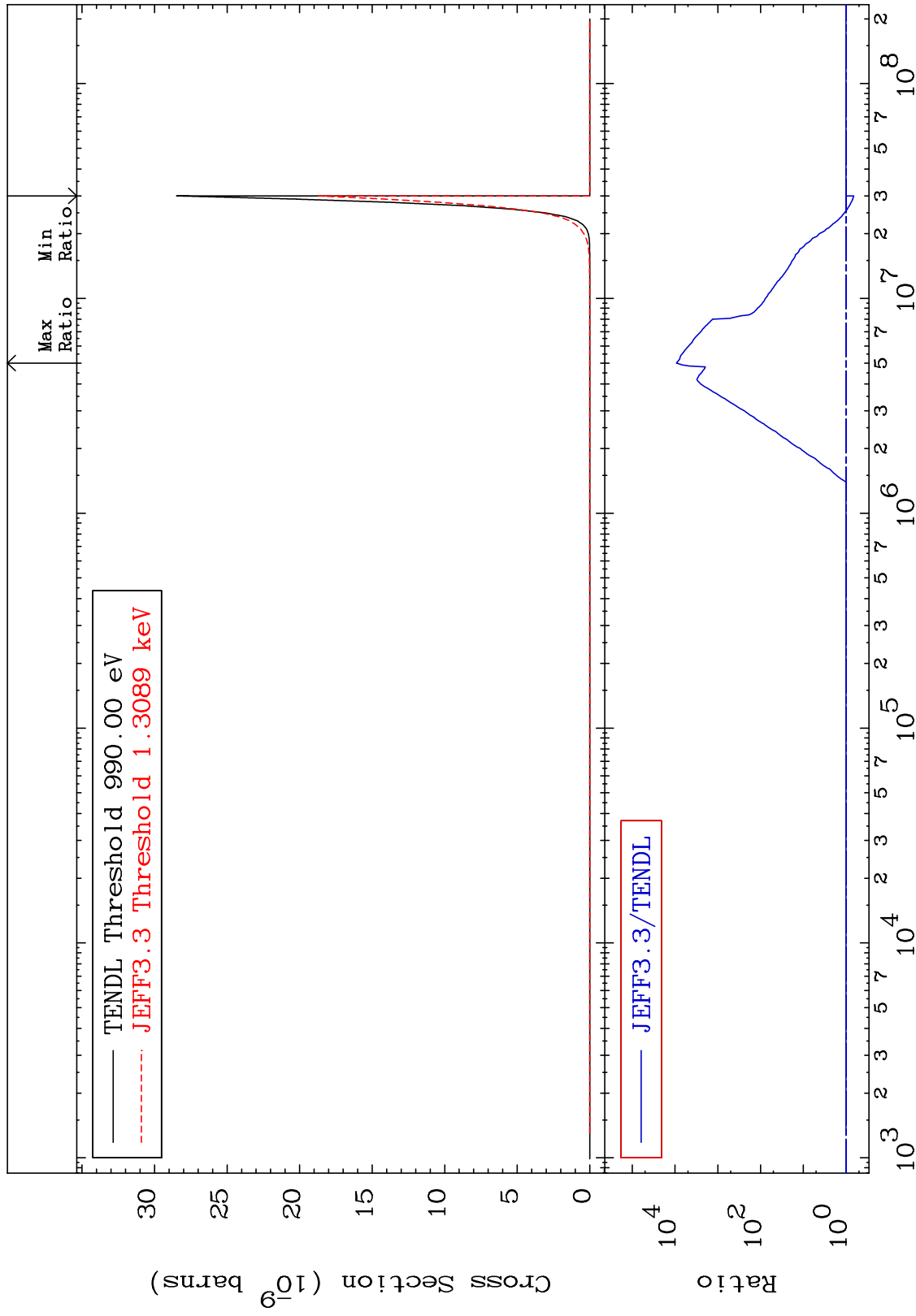
MAT 7634

(n,2α)

76-Os-187

Cross Section

-34.28 To 9999. %



Incident Energy (eV)

76-Os-187

56

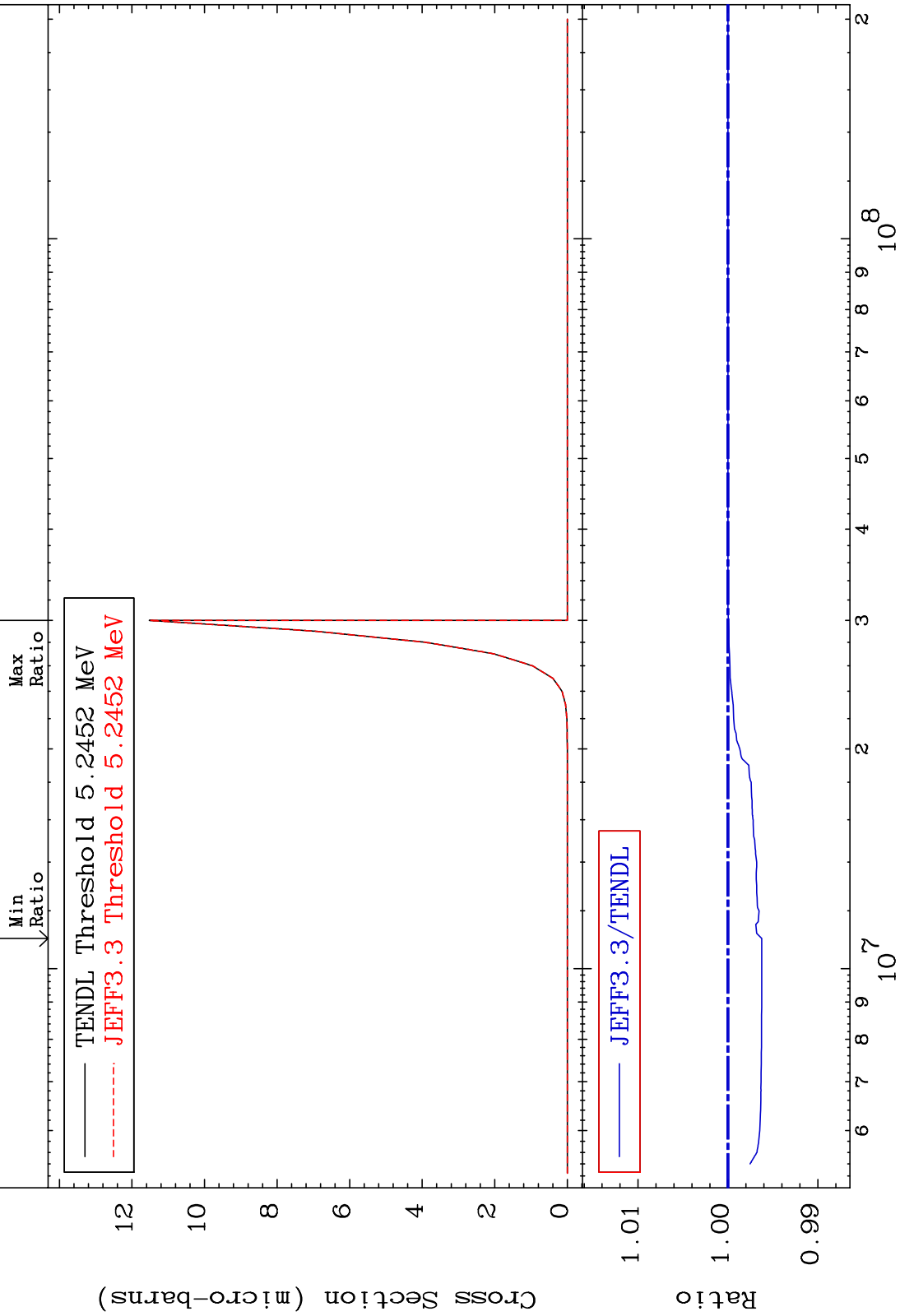
MAT 7634

(n,2p)

76-Os-187

-0.377 To 0.000 %

Cross Section



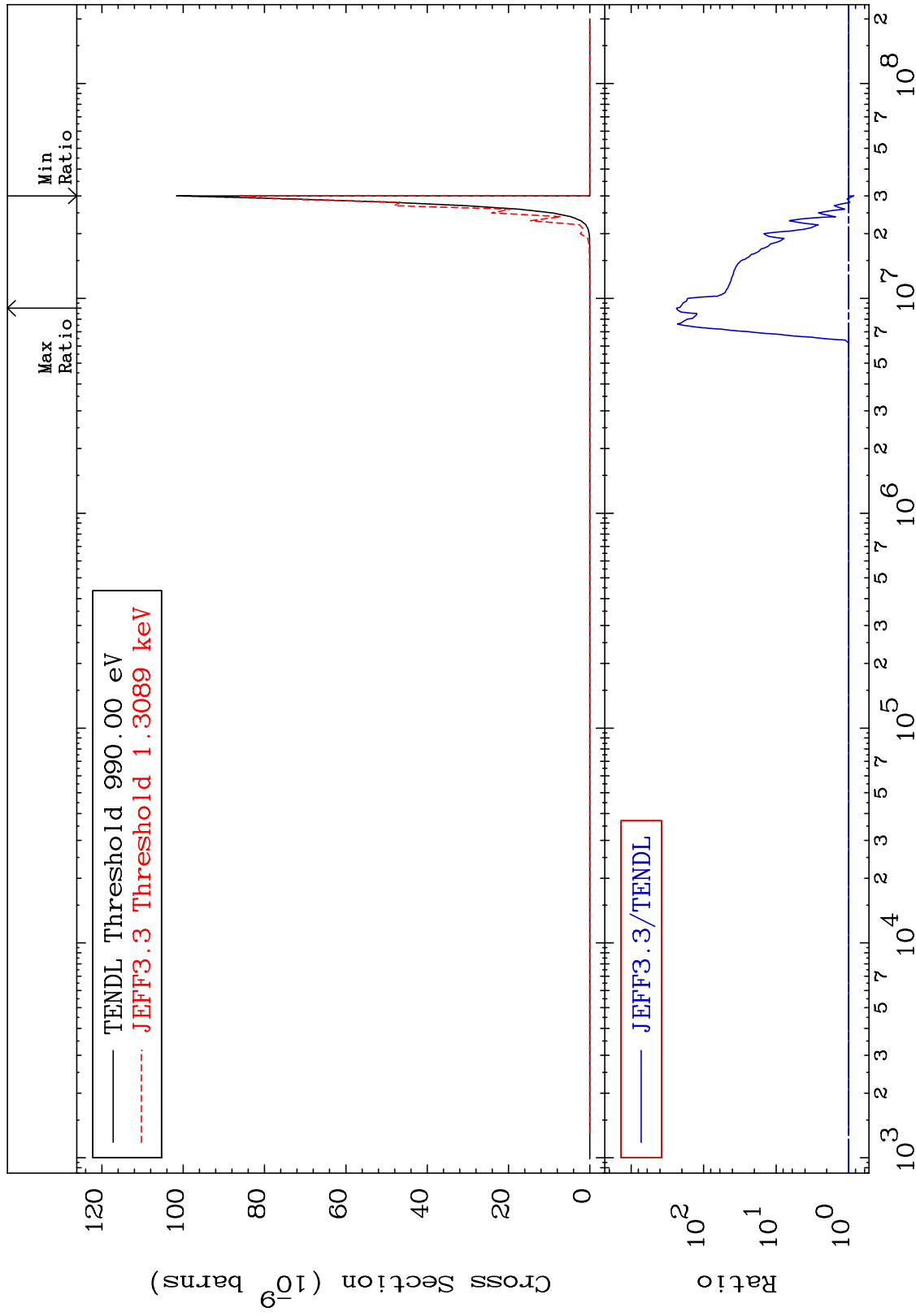
MAT 7634

(n,p)  $\alpha$

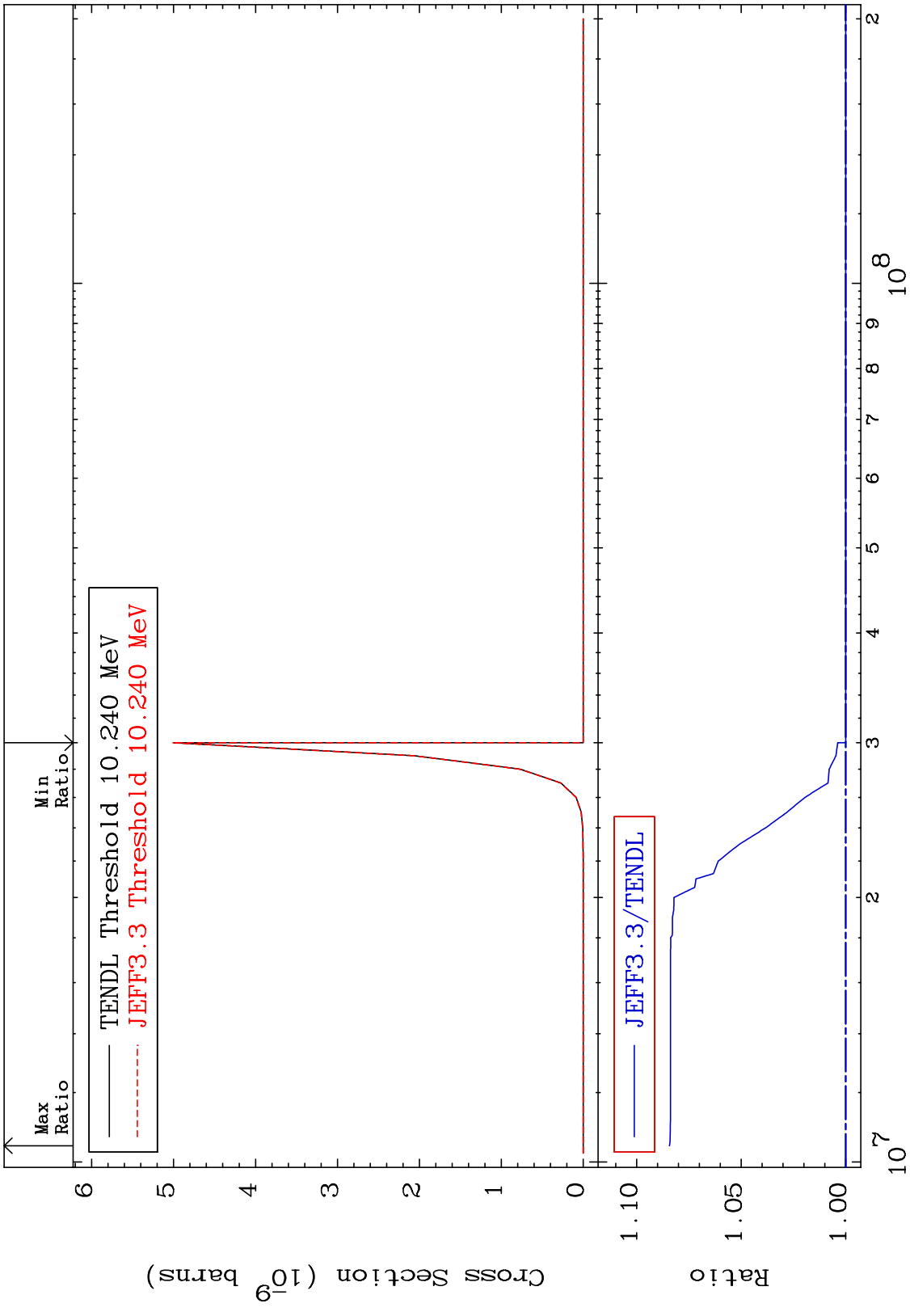
76-Os-187

Cross Section

-15.33 To 9999. %

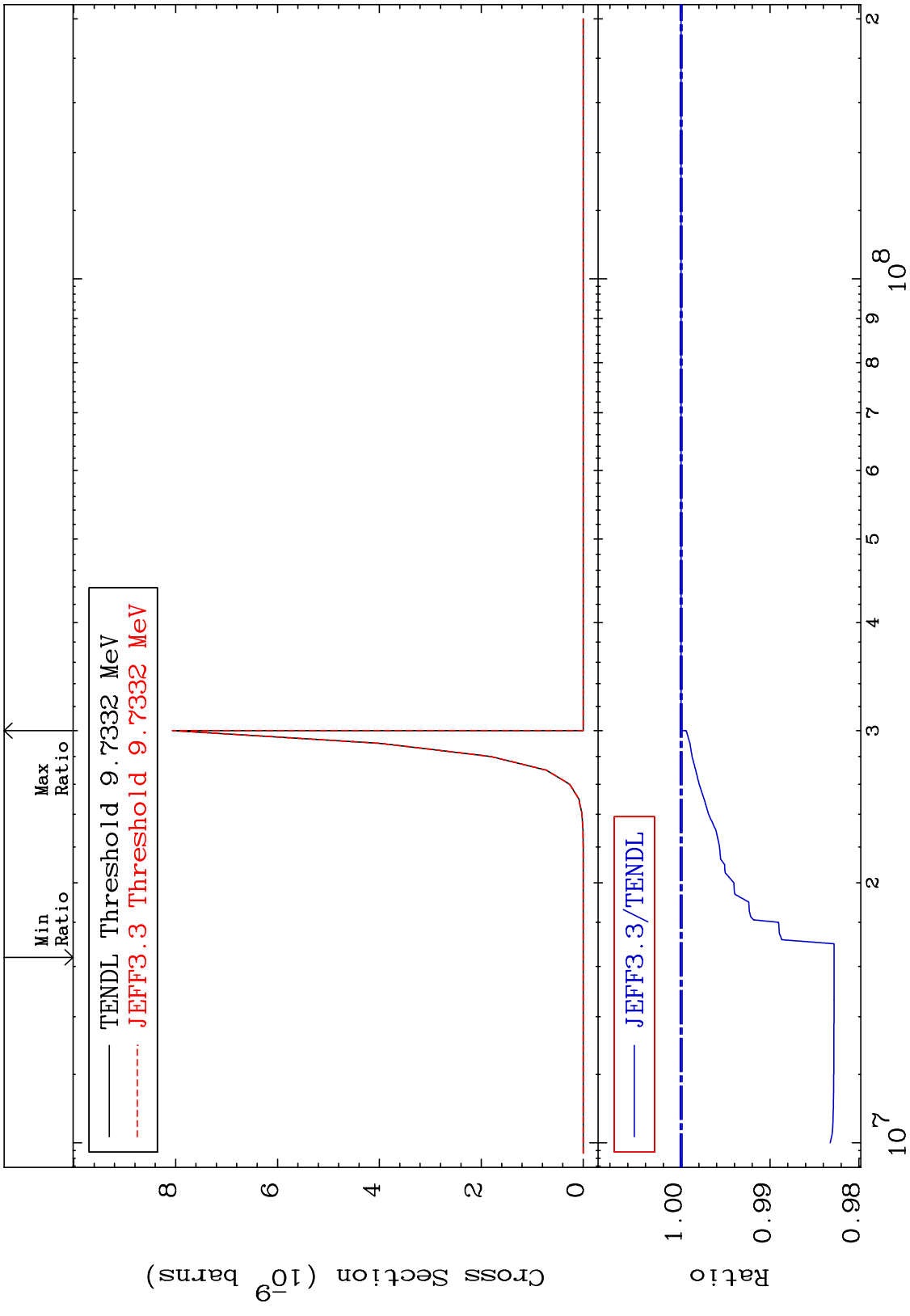


MAT 7634 (n,p) d 76-0s-187  
 Cross Section 0.000 To 8.433 %



59 76-0s-187 Incident Energy (eV)

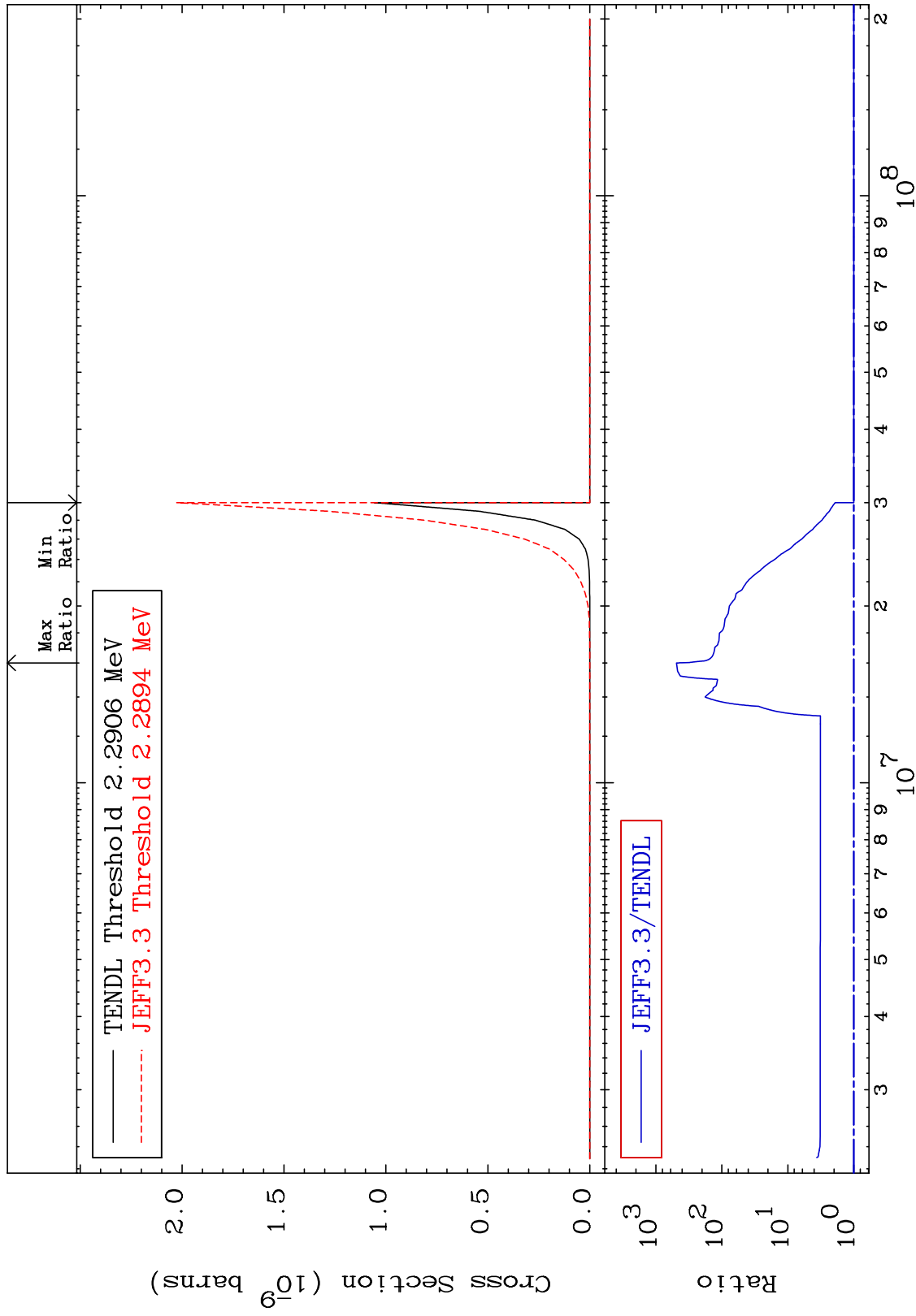
MAT 7634 (n,p) t 76-0s-187  
 Cross Section -1.721 To 0.000 %



60 Incident Energy (eV) 76-0s-187

MAT 7634

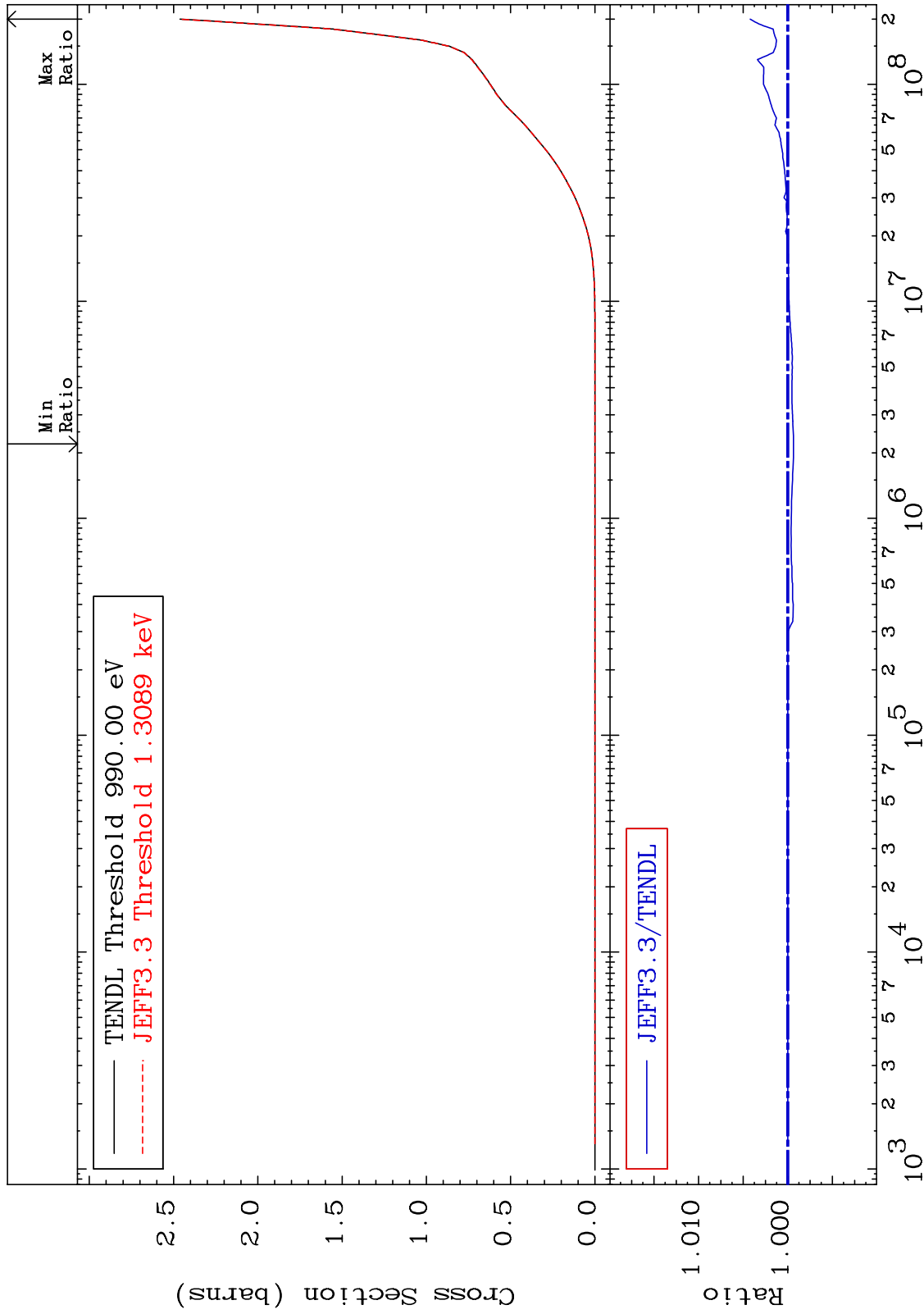
(n,d)  $\alpha$  Cross Section  
76-Os-187  
0.000 To 9999. %



MAT 7634

Hydrogen Production  
Cross Section

76-0s-187  
-0.064 To 0.421 %

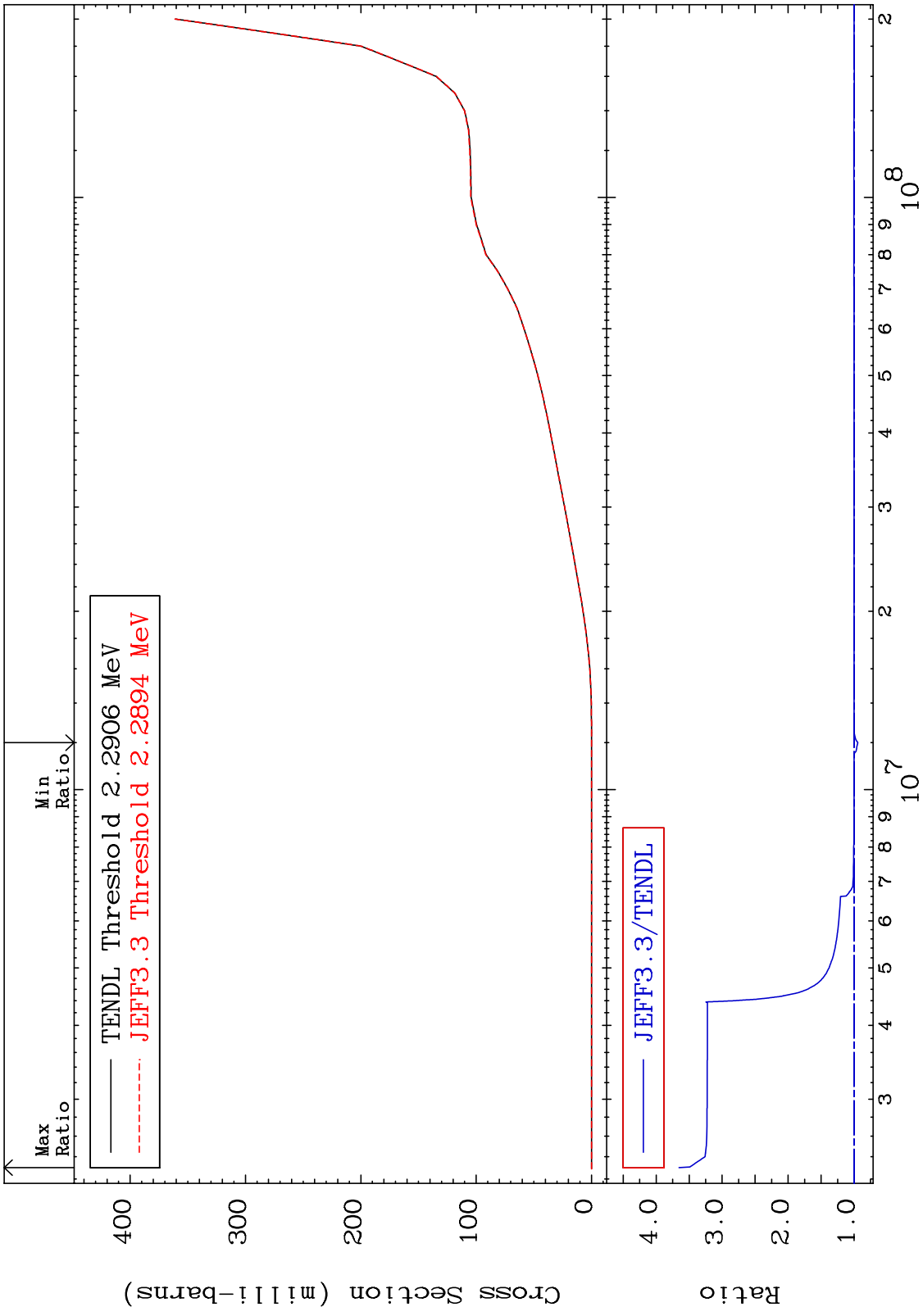


62

Incident Energy (eV)

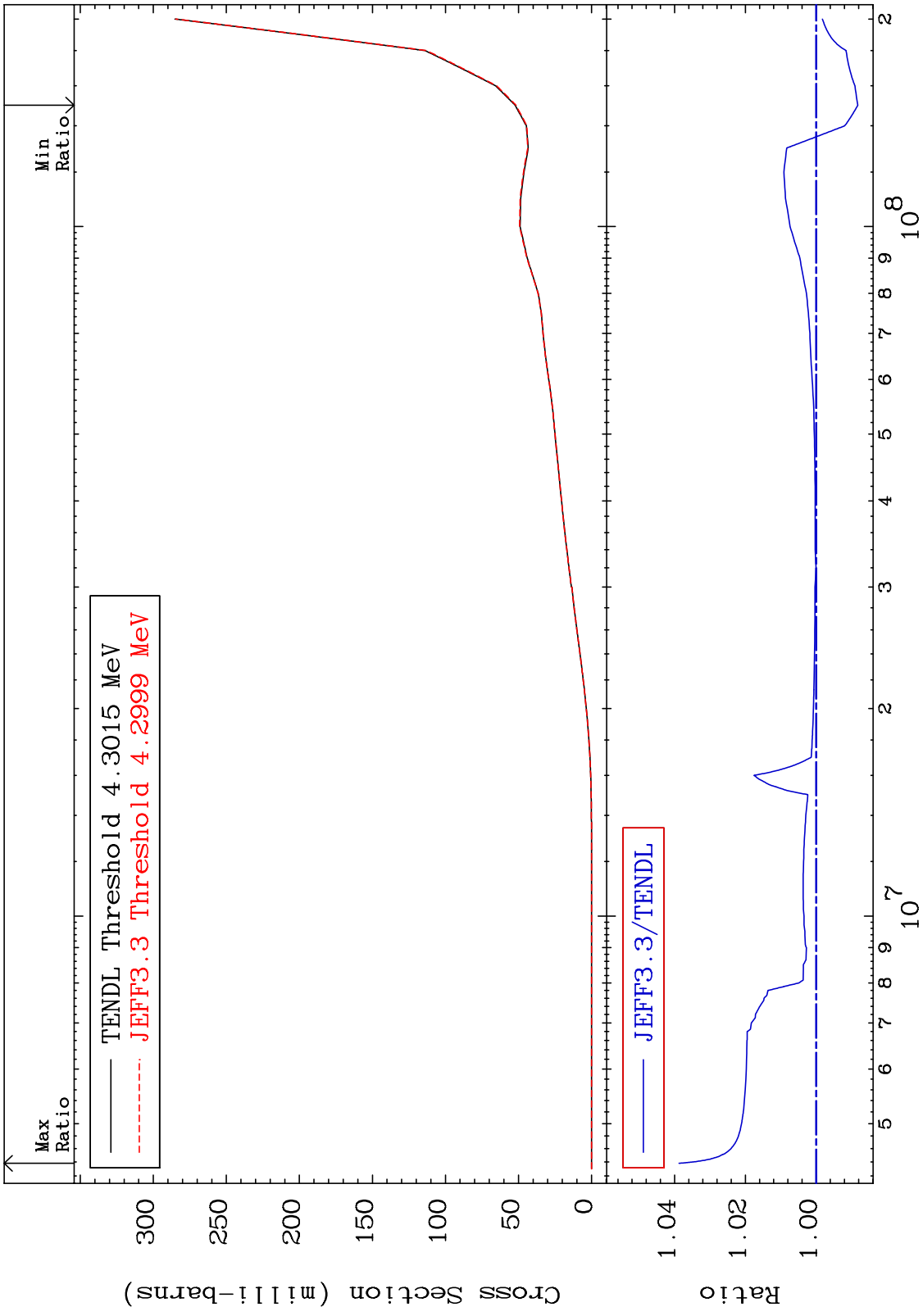
76-0s-187

MAT 7634 Deuterium Production Cross Section 76-0s-187  
 -5.698 To 265.3 %





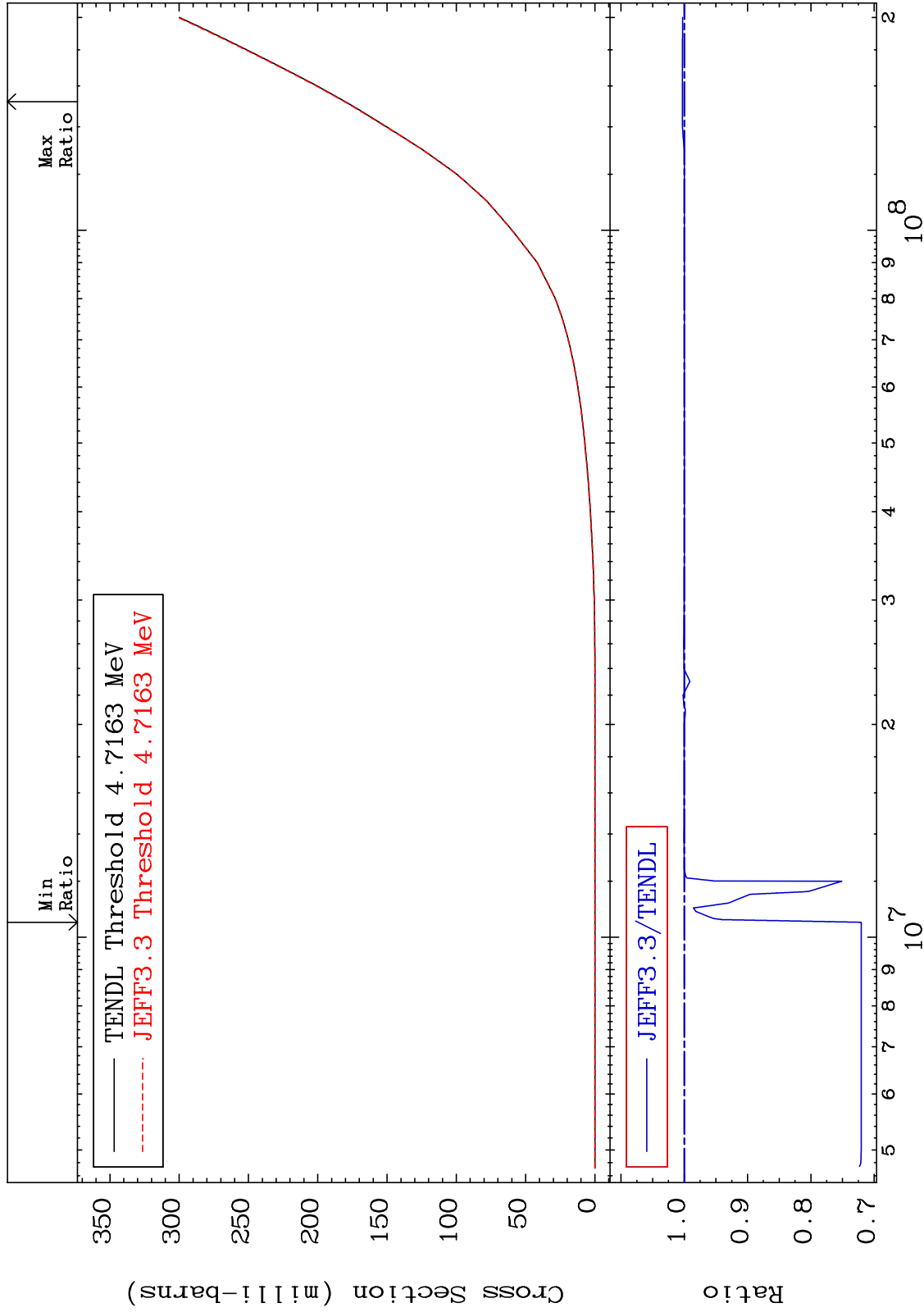
MAT 7634 Tritium Production Cross Section 76-Os-187  
 -1.176 To 3.873 %



MAT 7634

He-3 Production  
Cross Section

76-0s-187  
-27.97 To 0.292 %



65

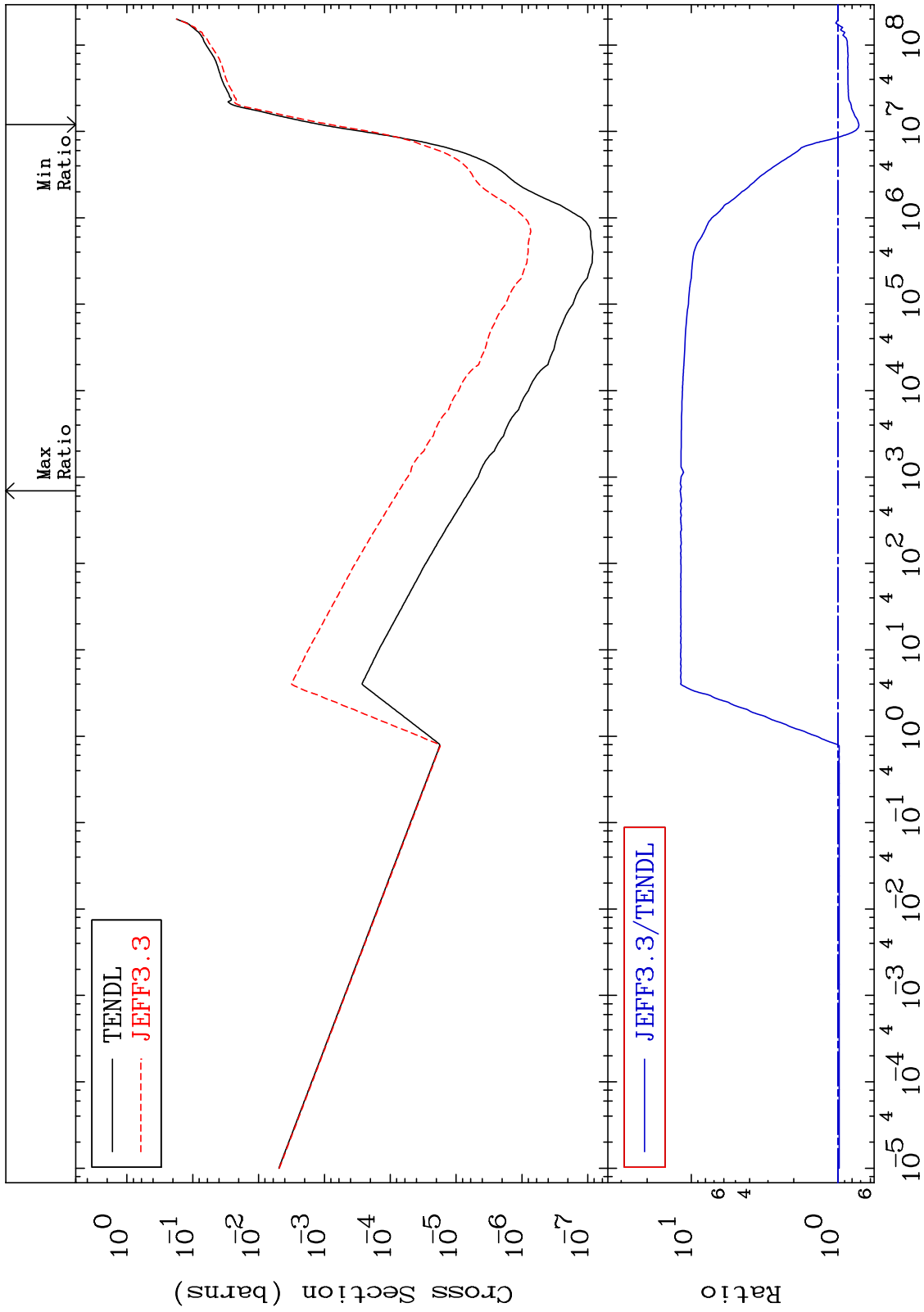
Incident Energy (eV)

76-0s-187

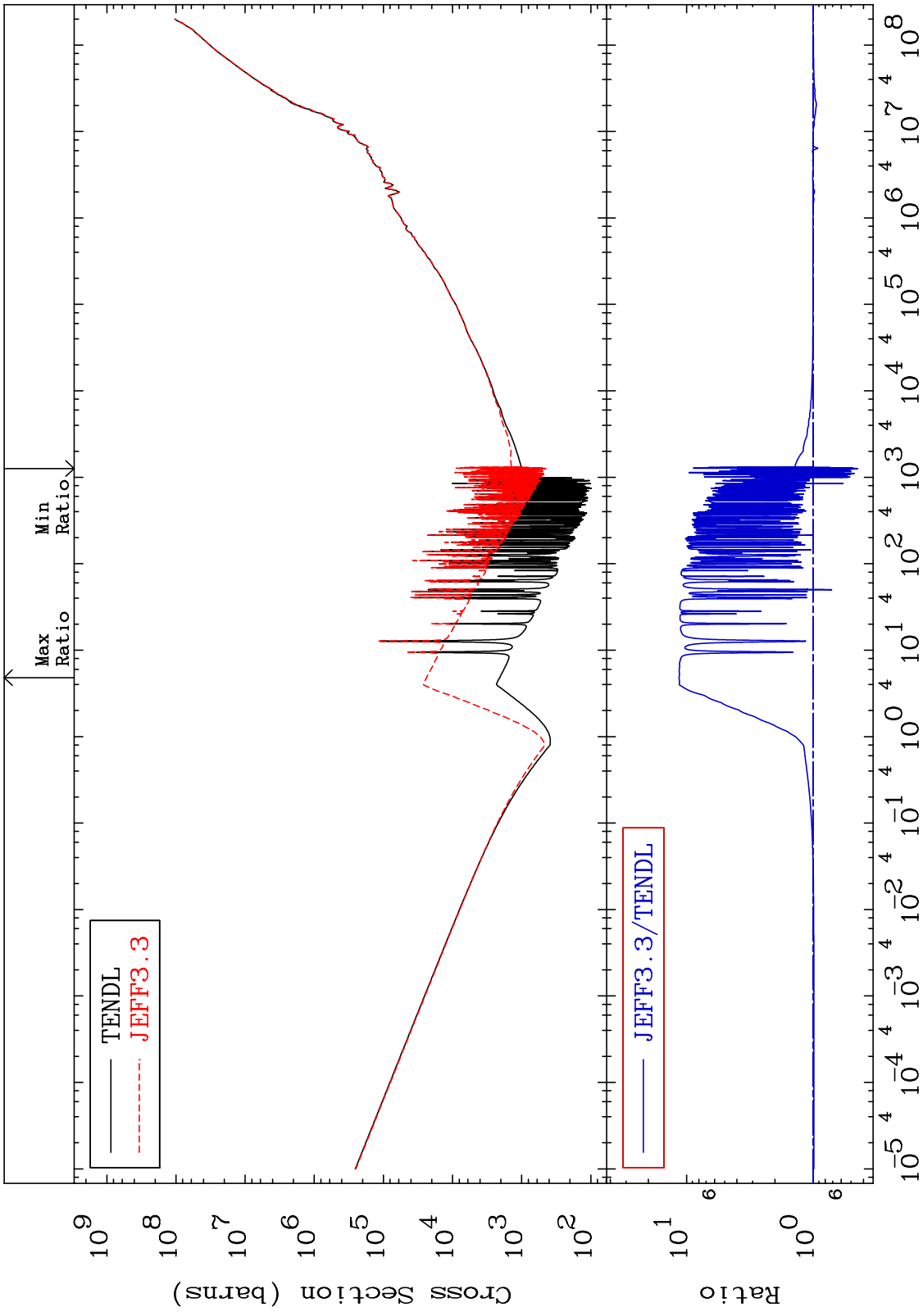
MAT 7634

He-4 Production  
Cross Section

76-Os-187  
-28.10 To 1089. %



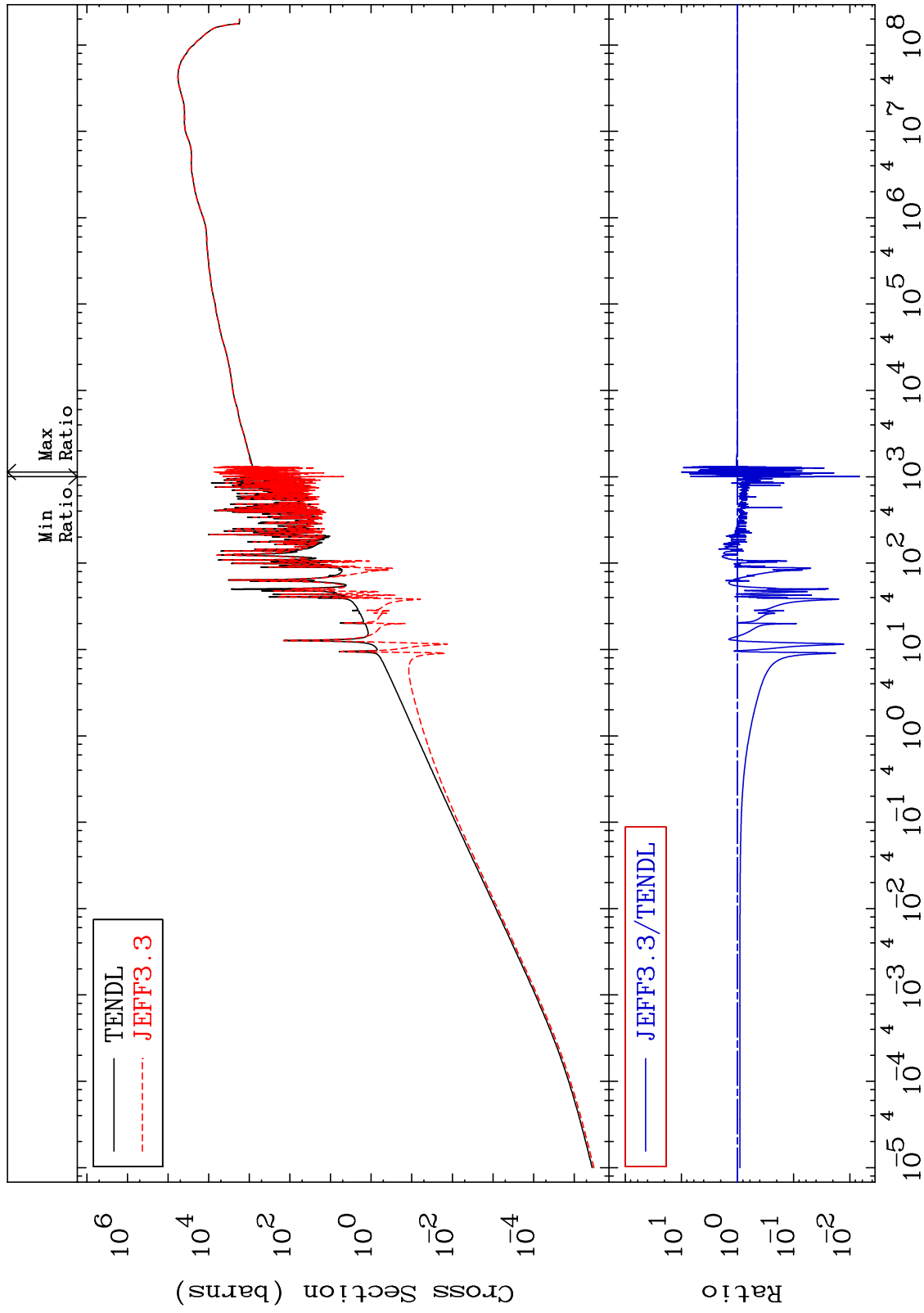
MAT 7634 Kerma total (eV-barns) 76-0s-187  
 Cross Section -55.77 To 1046. %



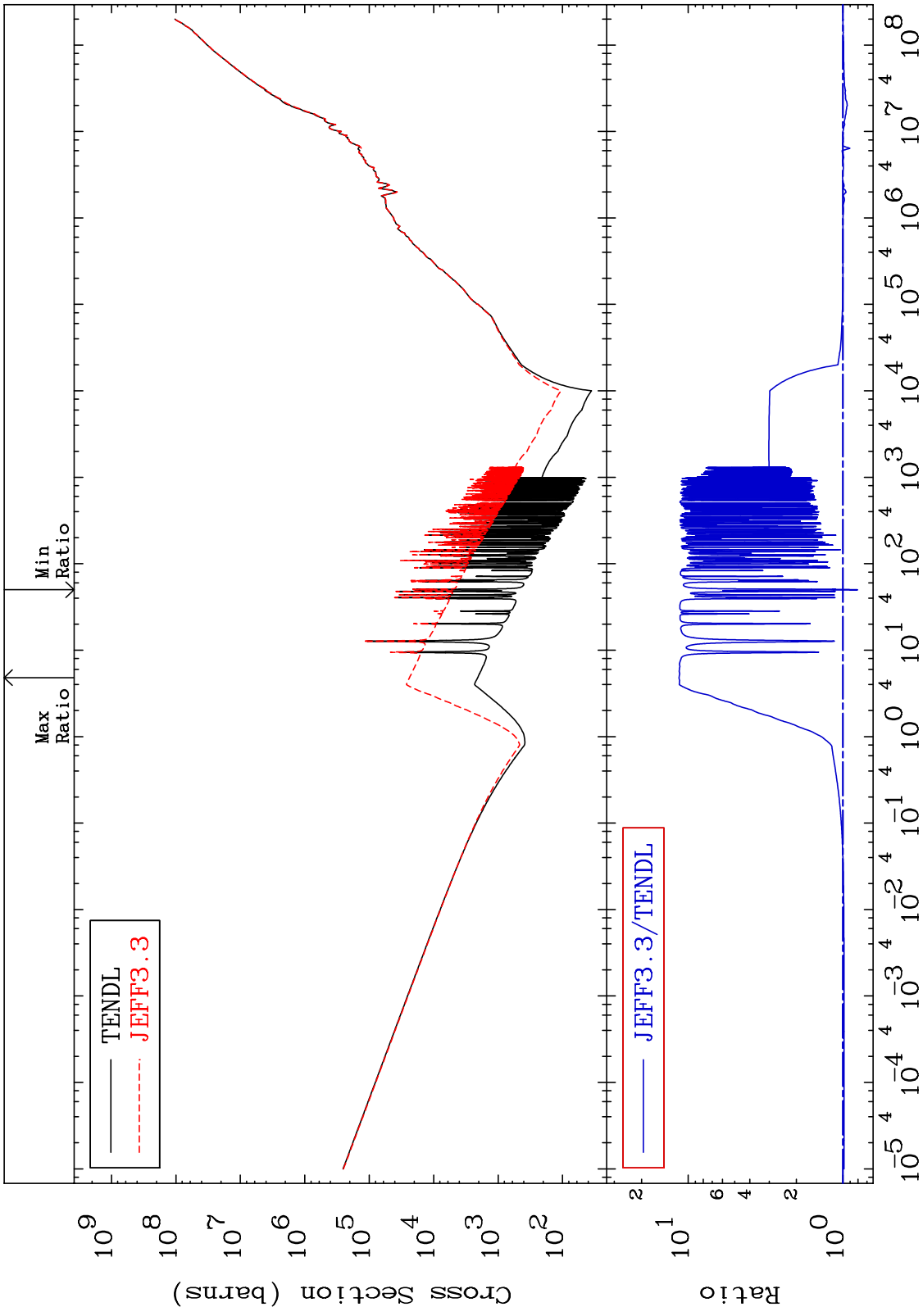
MAT 7634

Kerma elastic  
Cross Section

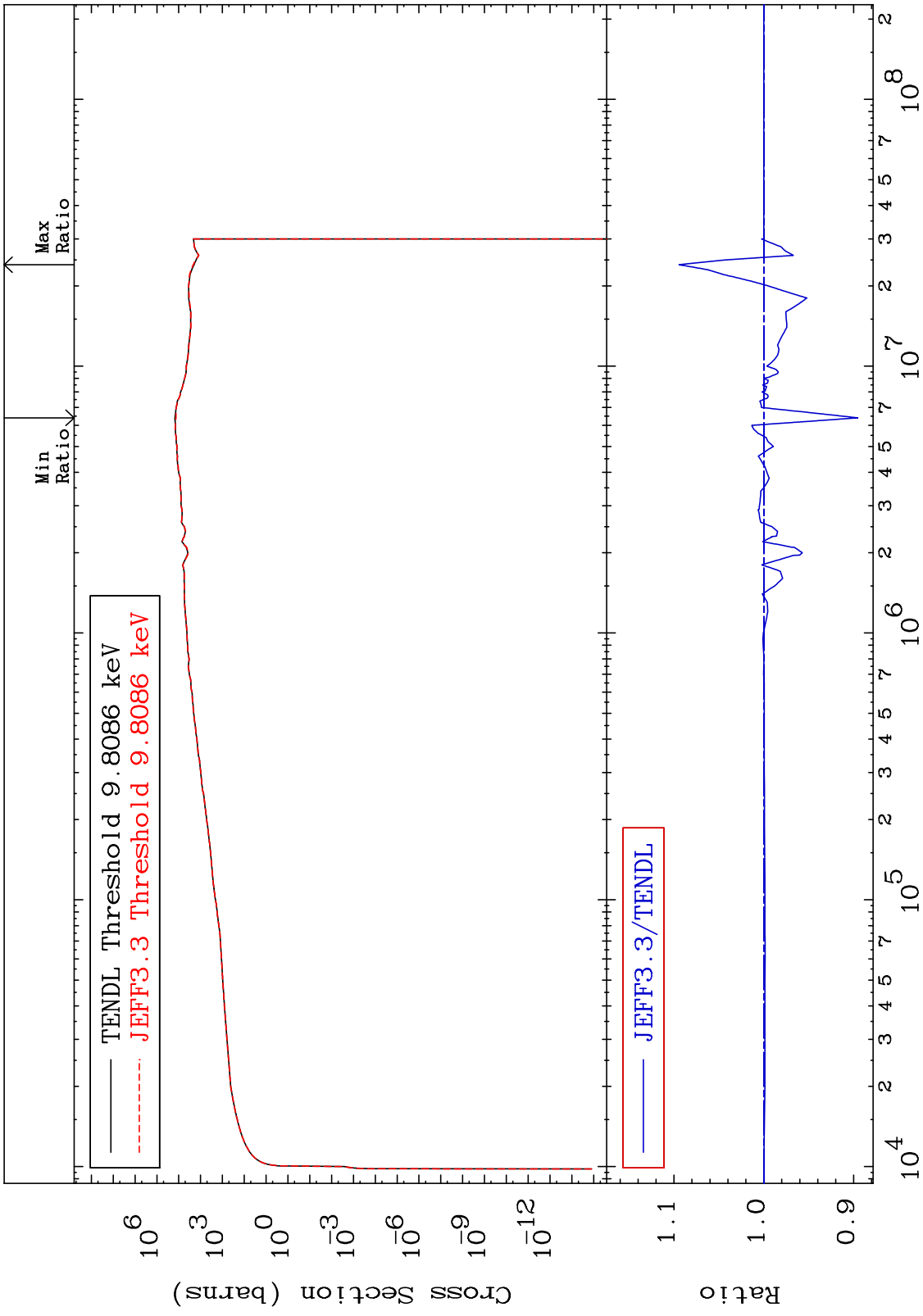
76-Os-187  
-99.33 To 904.4 %



MAT 7634 Kerma non-elastic (all but mt2) 76-0s-187  
 Cross Section -19.78 To 1046. %



MAT 7634 Kerma inelastic (mt51-91) 76-Os-187  
Cross Section -10.46 To 9.436 %

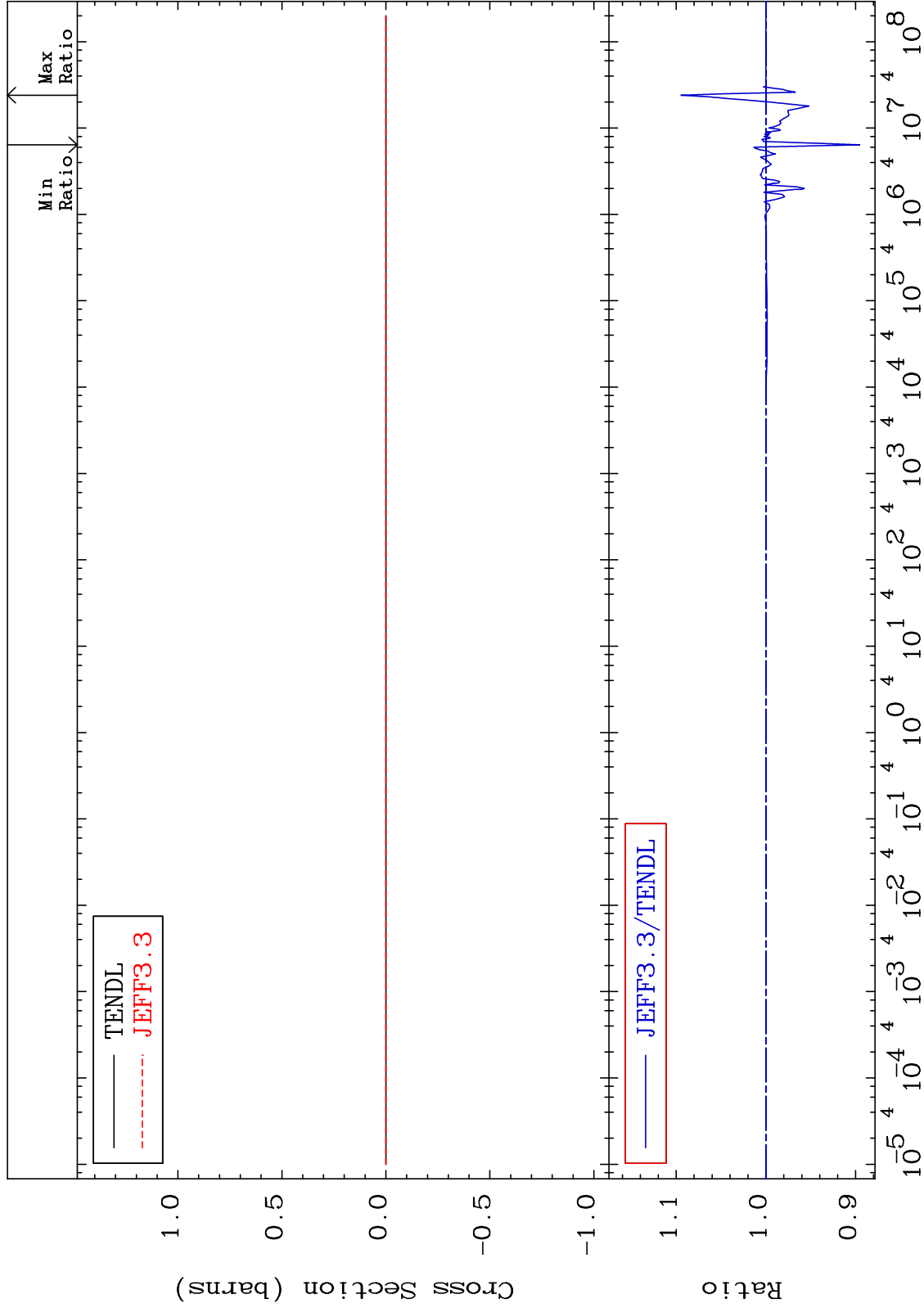


70 Incident Energy (eV) 76-Os-187

MAT 7634

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

76-0s-187  
-10.46 To 9.436 %

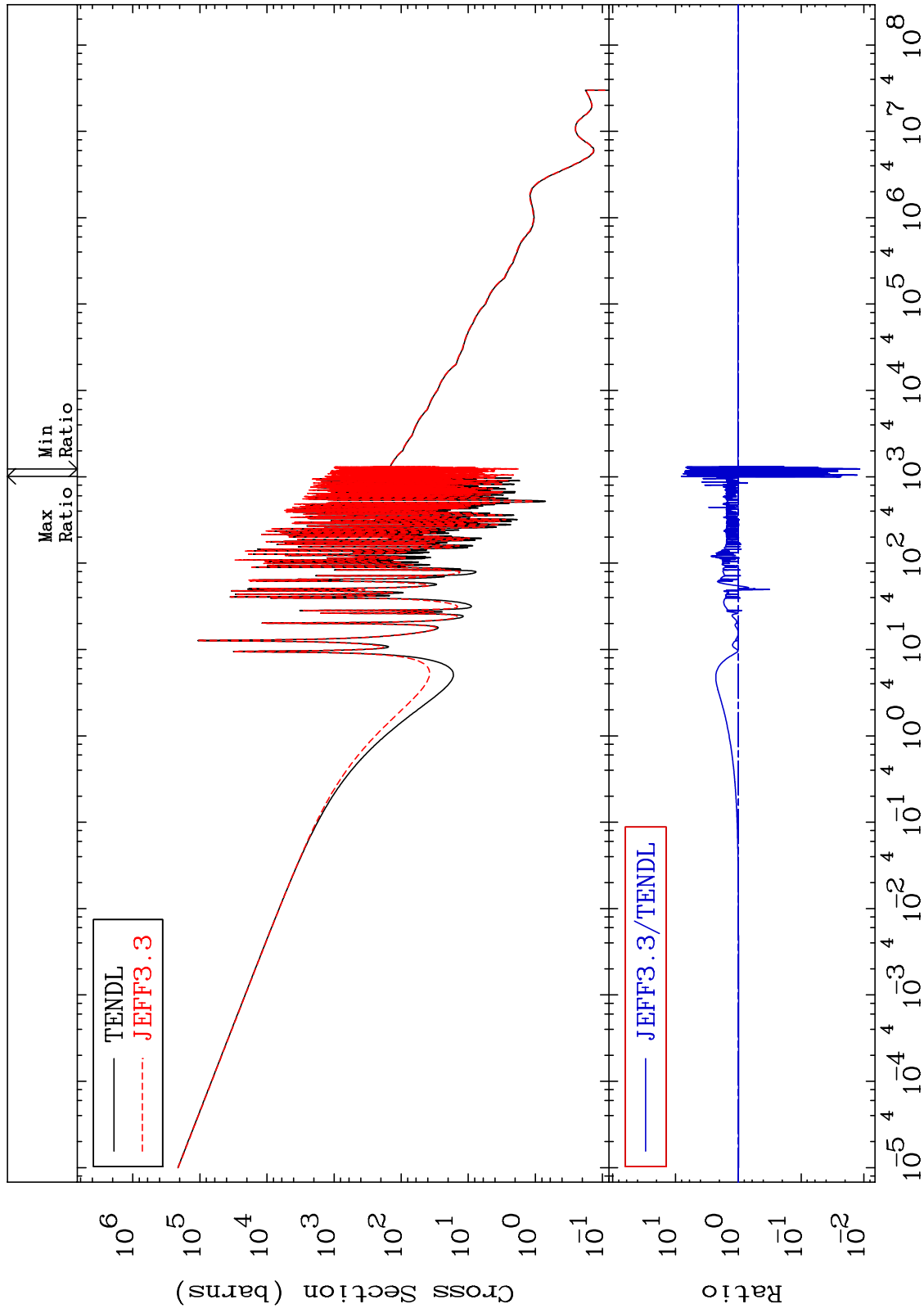




MAT 7634

Kerma capture (mt102)  
Cross Section

76-0s-187  
-98.83 To 708.2 %

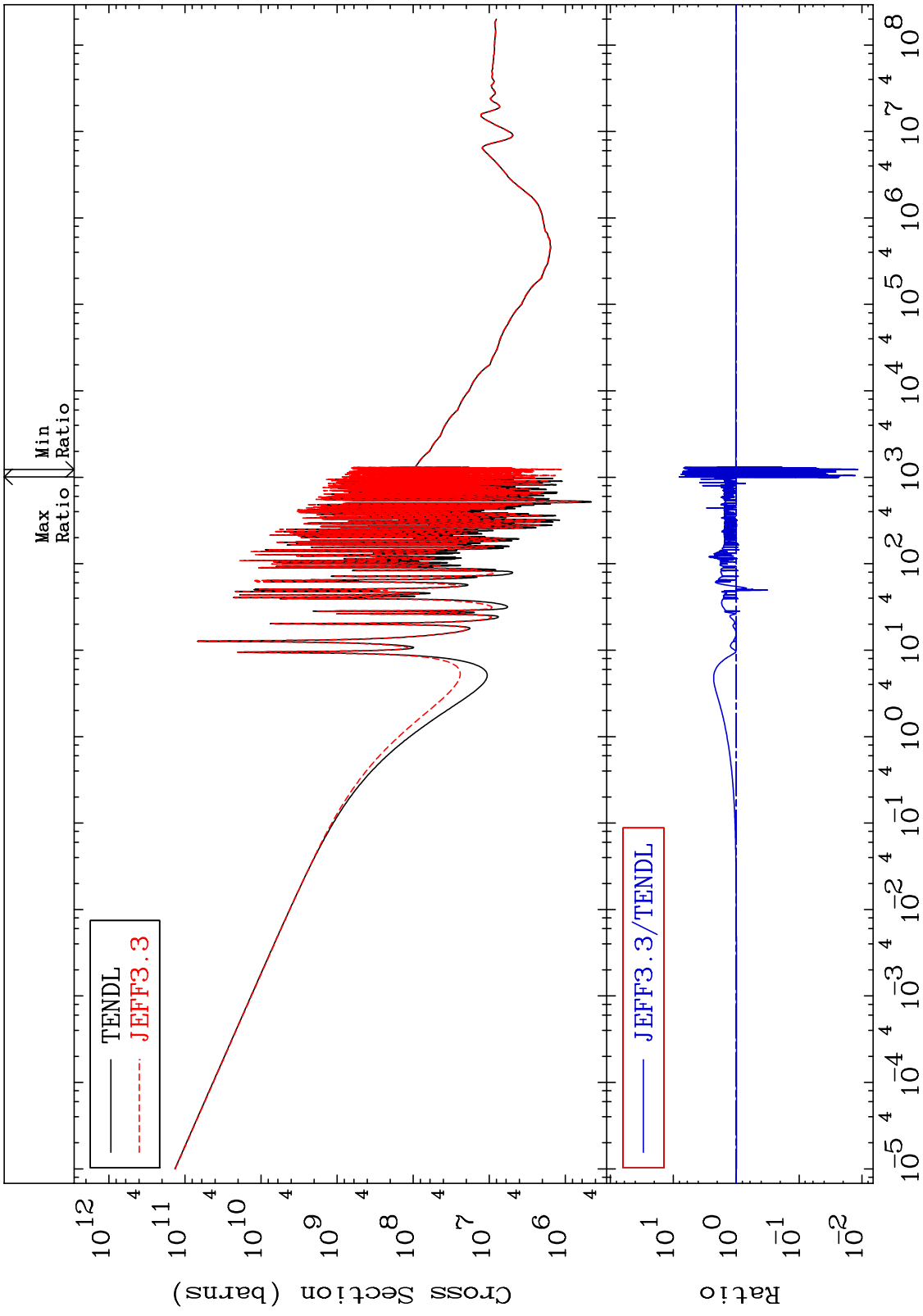


72

Incident Energy (eV)

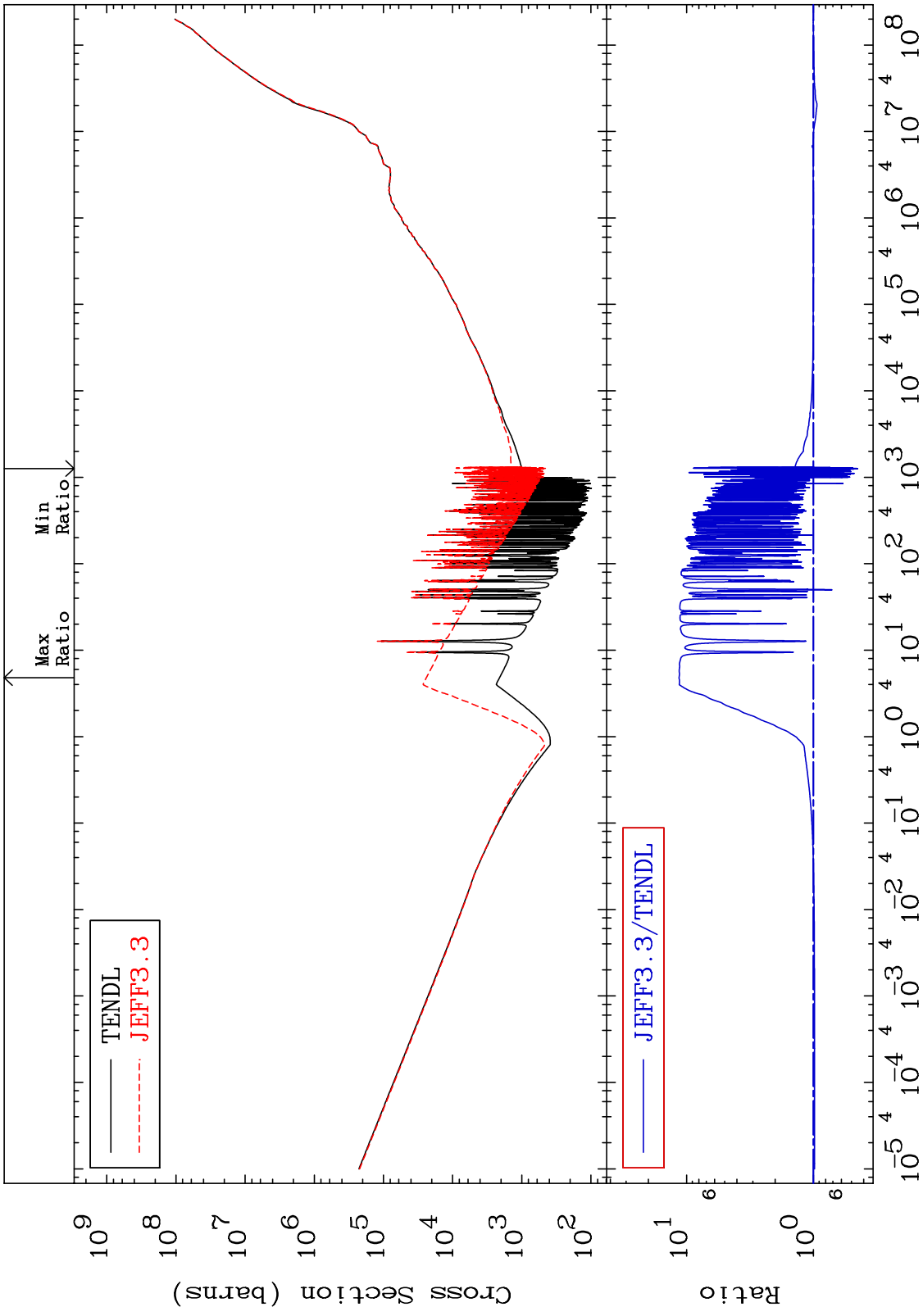
76-0s-187

MAT 7634 76-Os-187  
 Total photon (eV-barns) -98.83 To 708.2 %  
 Cross Section

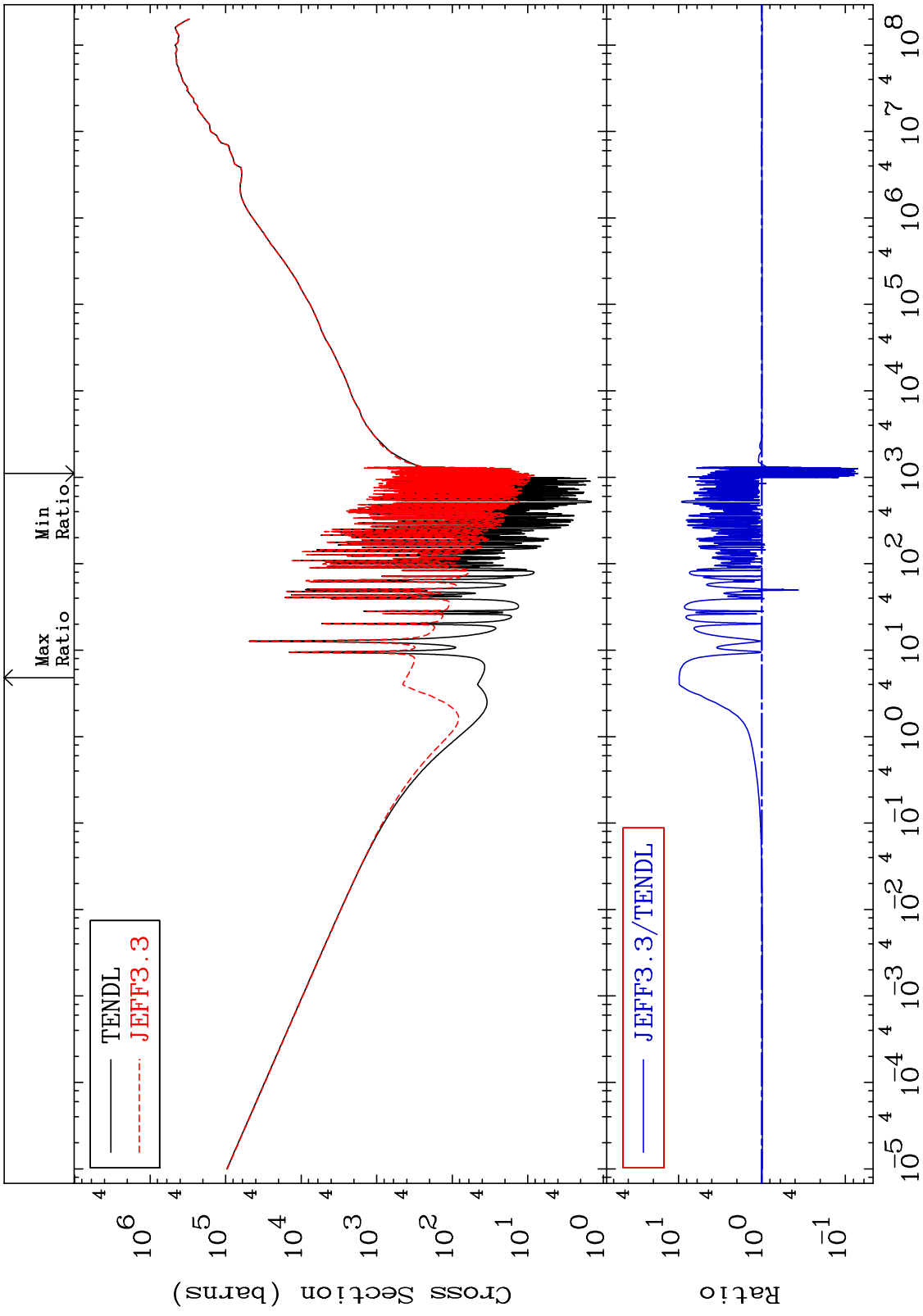


73 76-Os-187

MAT 7634 Total kinematic kerma (high limit) Cross Section 76-0s-187  
 -55.47 To 1047. %



MAT 7634      Dpa total (eV-barns)      76-0s-187  
 Cross Section      -92.92 To 885.8 %

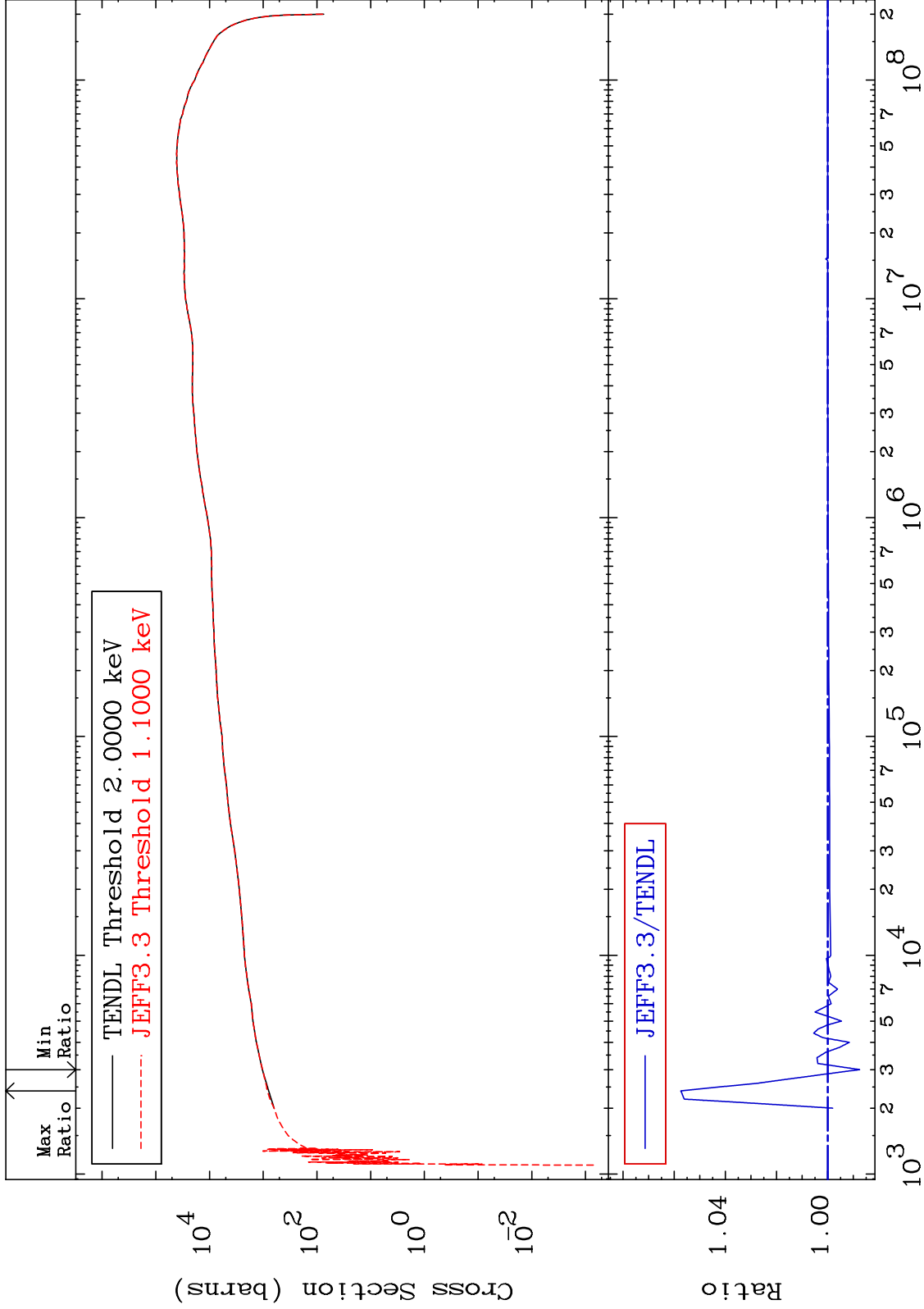


75      Incident Energy (eV)      76-0s-187

MAT 7634

Dpa elastic (mt2)  
Cross Section

76-0s-187  
-1.247 To 5.744 %

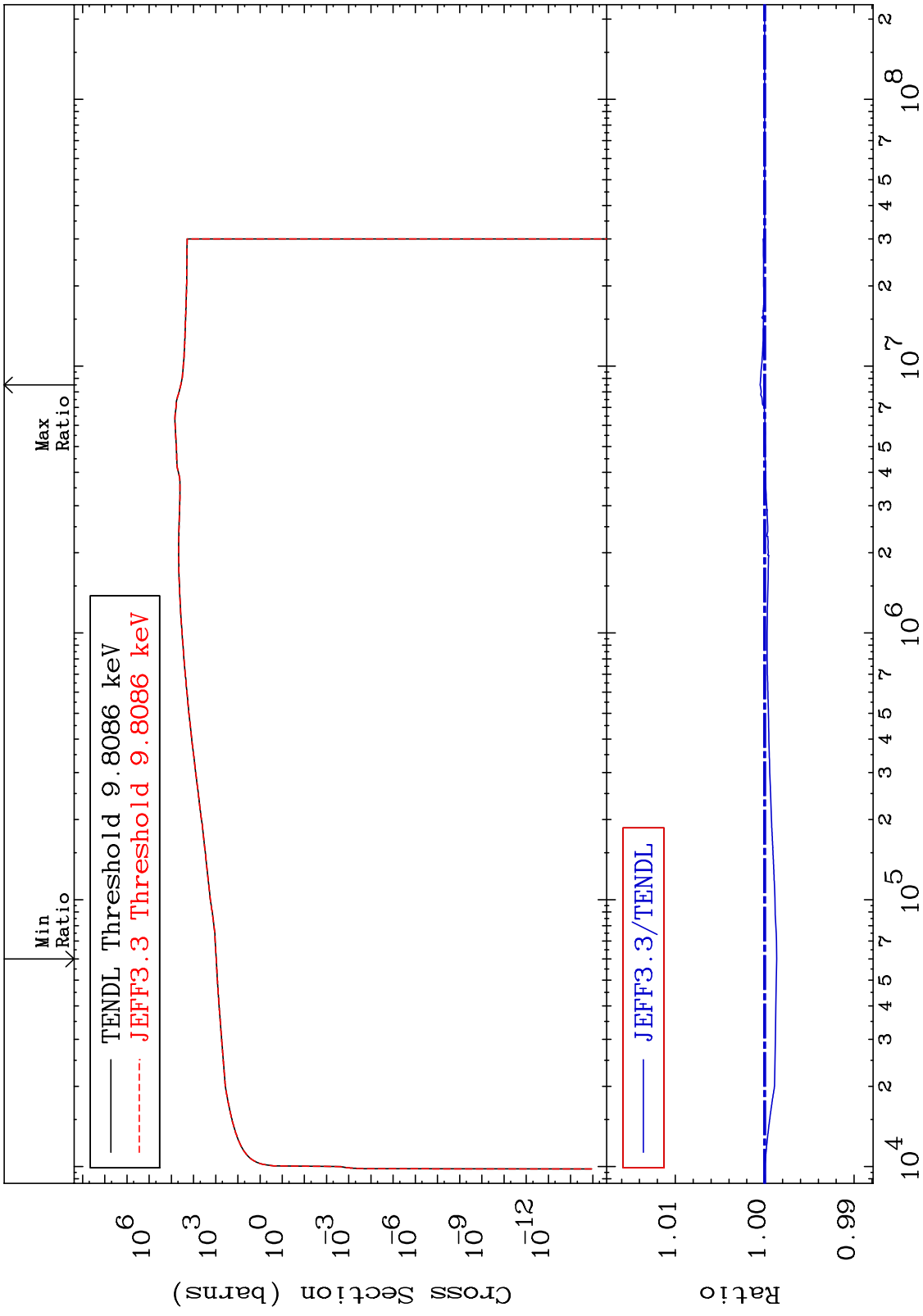


76

Incident Energy (eV)

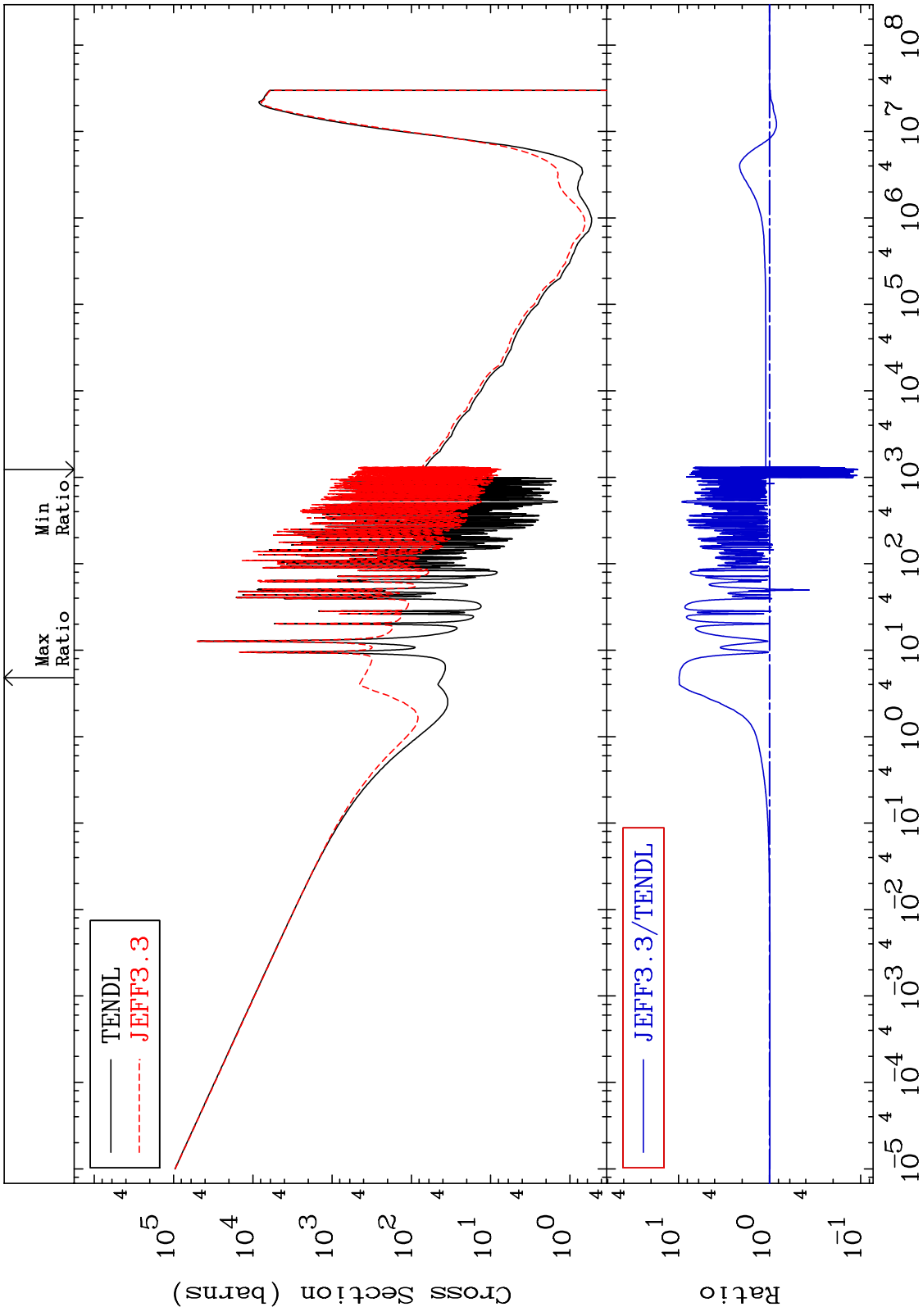
76-0s-187

MAT 7634 Dpa inelastic (mt51-91) 76-Os-187  
Cross Section -0.134 To 0.051 %



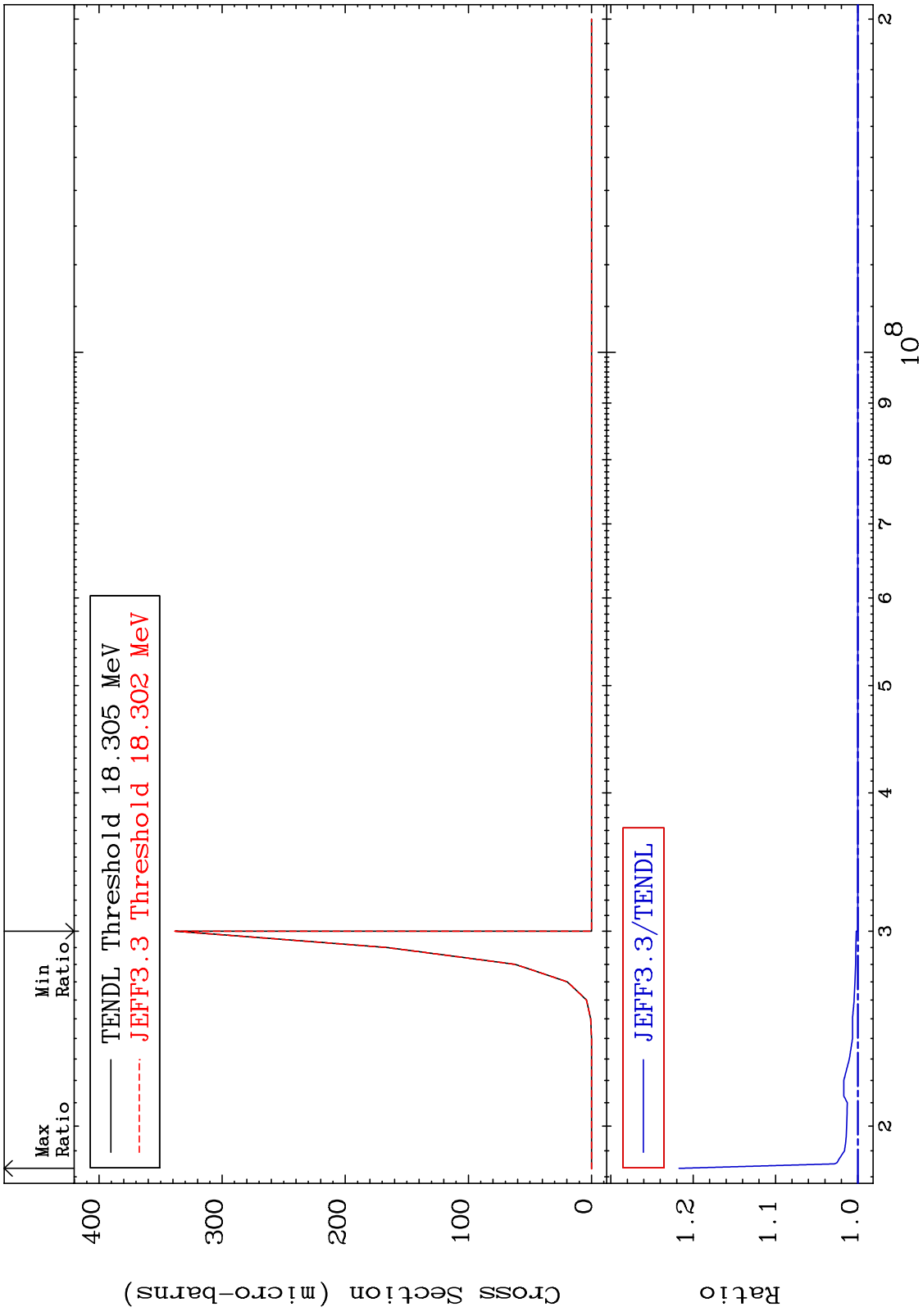
77 76-Os-187

MAT 7634      Dpa disappearance (mt102 -120)      76-0s-187  
 Cross Section      -89.28 To 885.8 %



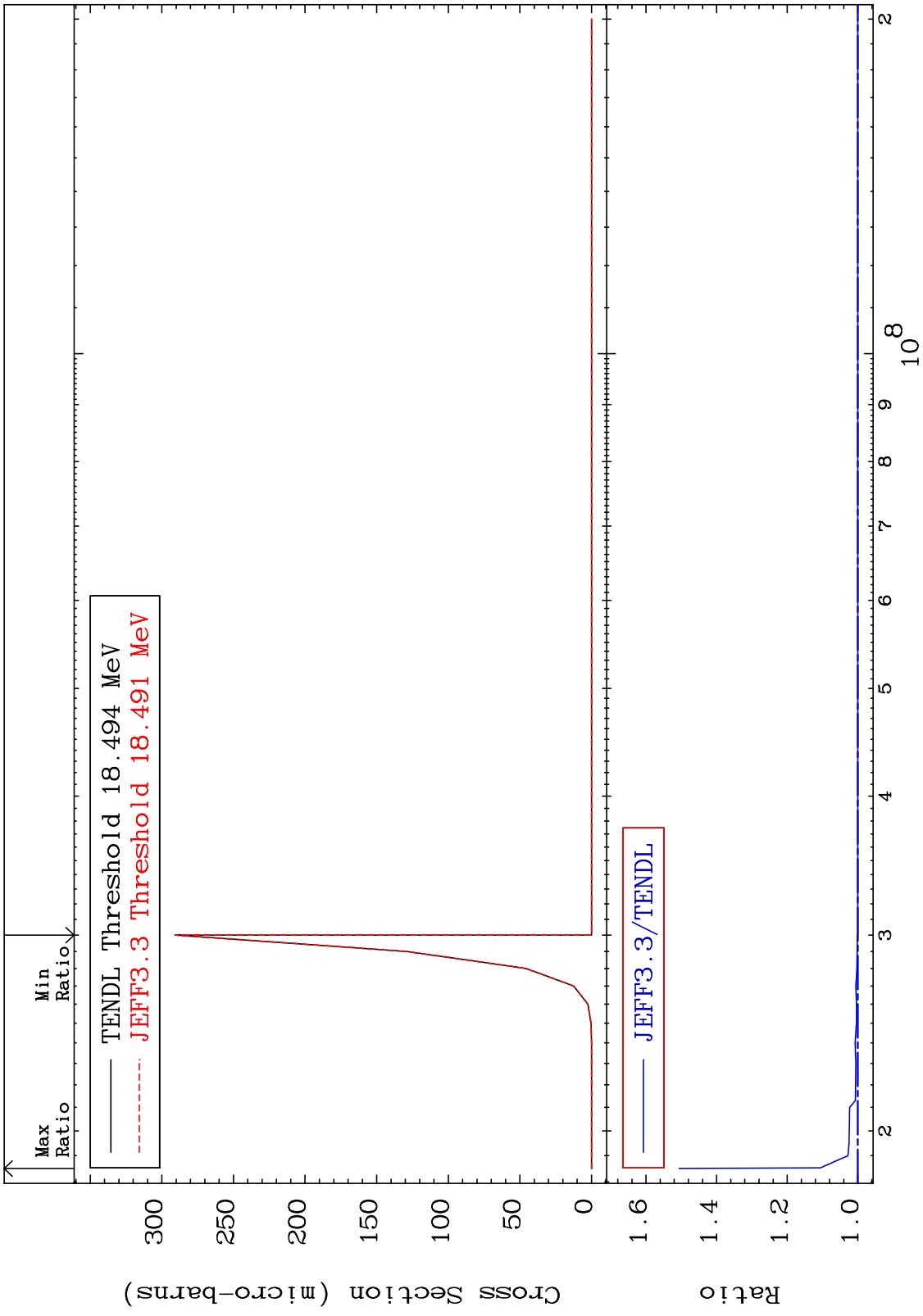
78      Incident Energy (eV)      76-0s-187

MAT 7634 (n,2n) d:75-Re-184g 76-Os-187  
 Radionuclide Production Cross Section 0.000 To 21.71 %

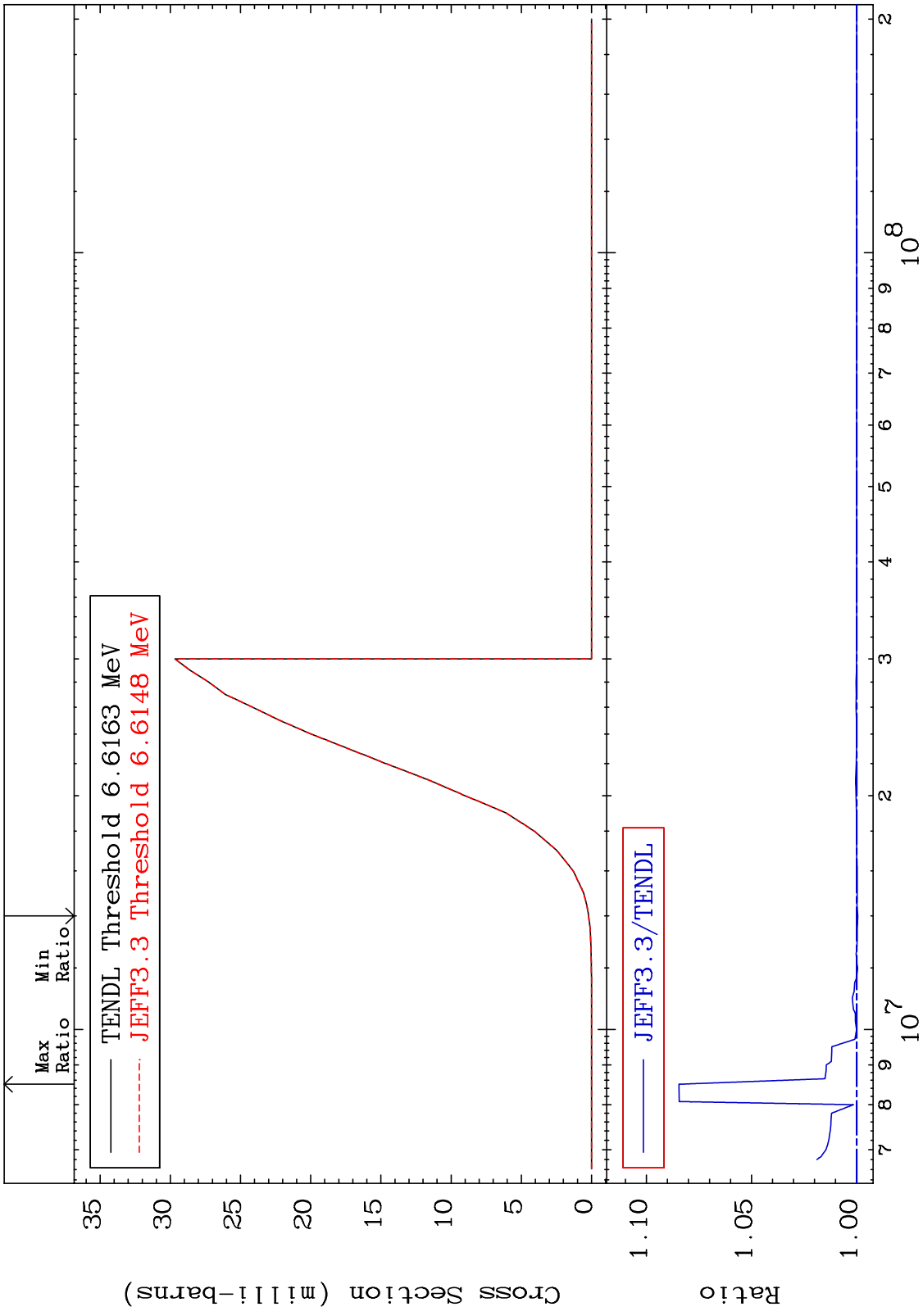




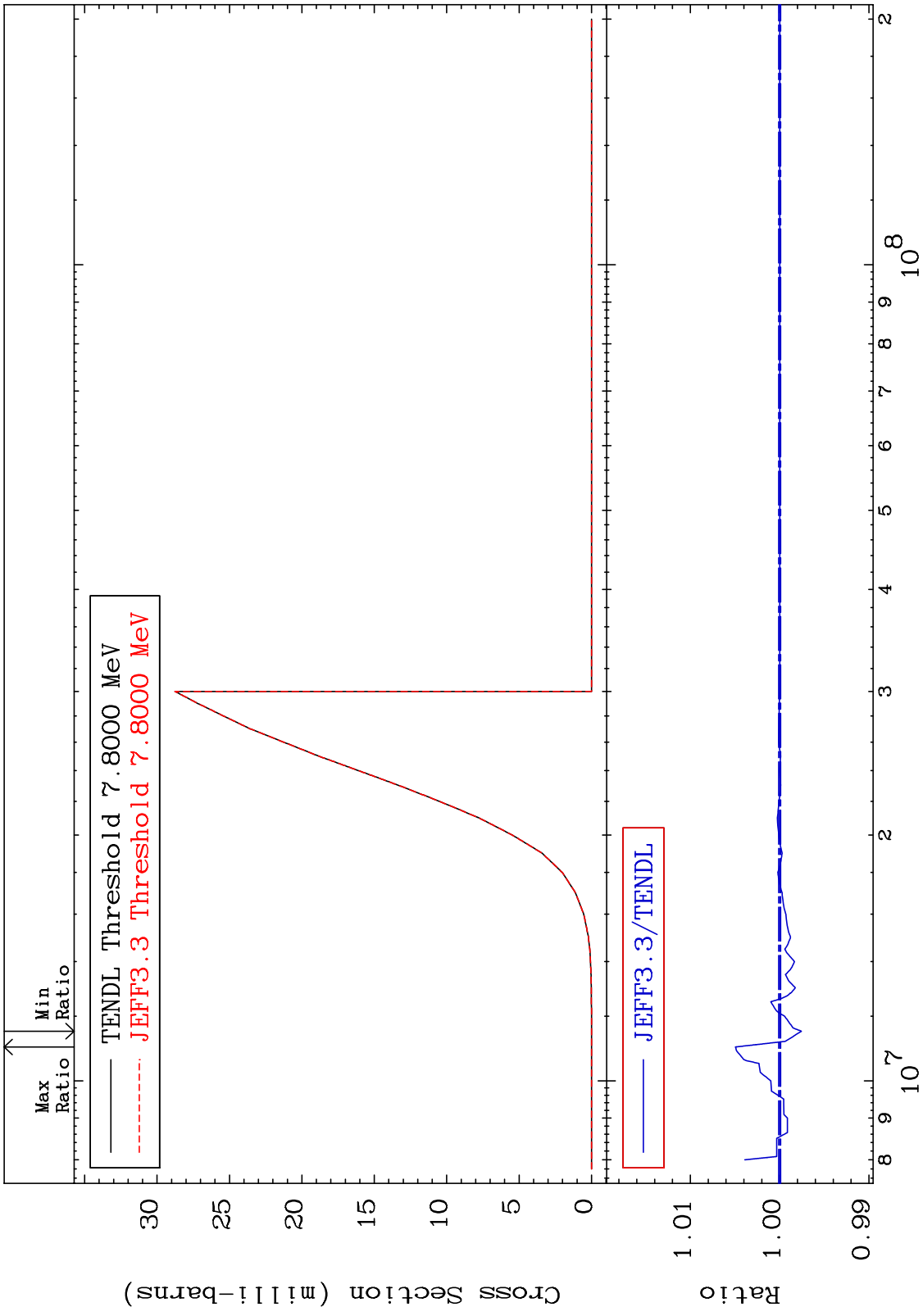
MAT 7634 (n,2n) d:75-Re-184m5 76-Os-187  
 Radionuclide Production Cross Section 0.000 To 50.64 %



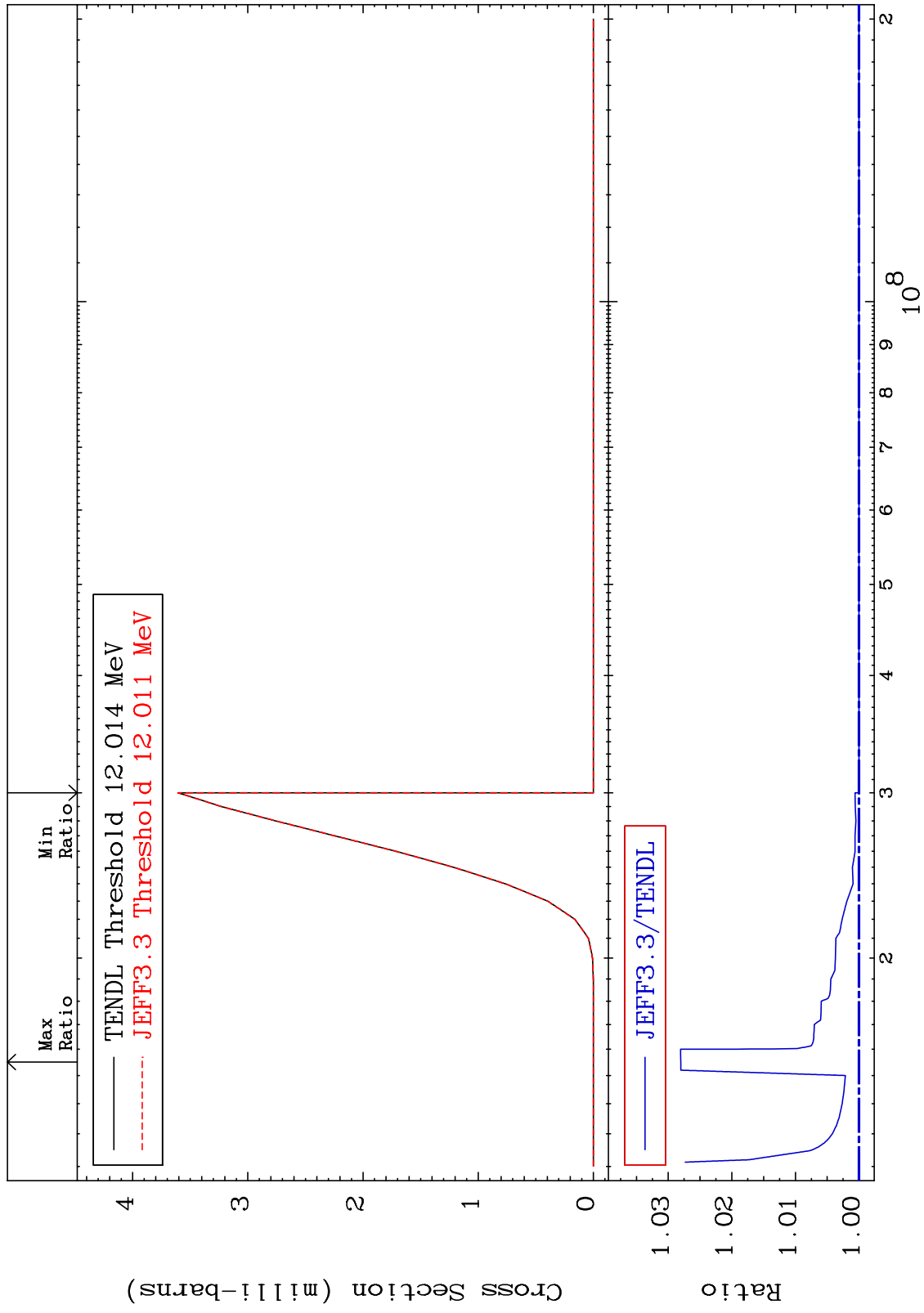
MAT 7634 (n,n') p:75-Re-186g 76-0s-187  
 Radionuclide Production Cross Section -0.058 To 8.448 %



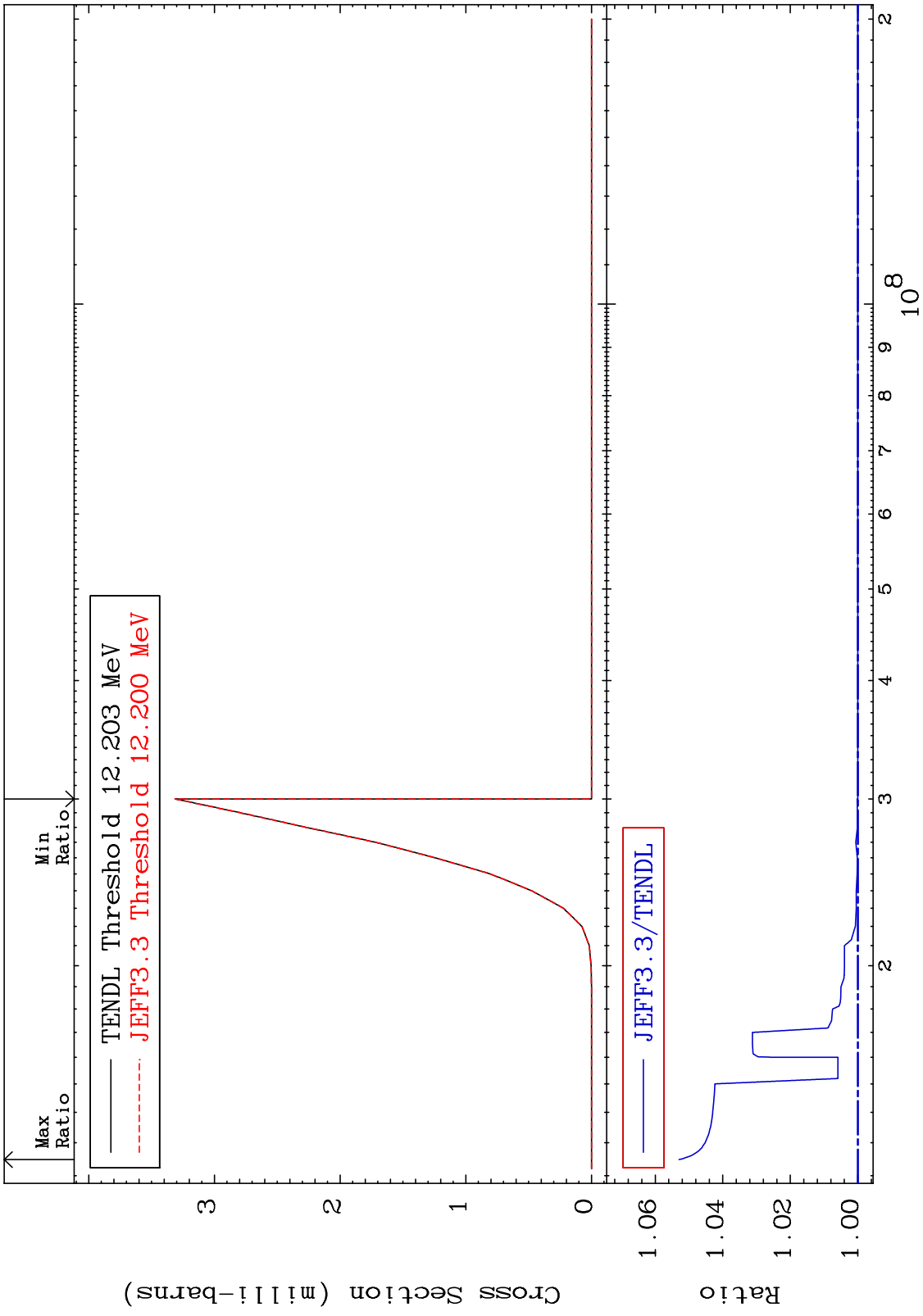
MAT 7634 (n,n') p:75-Re-186m4 76-0s-187  
 Radionuclide Production Cross Section -0.244 To 0.496 %



MAT 7634 (n, n') t: 75-Re-184g 76-Os-187  
Radionuclide Production Cross Section 0.000 To 2.805 %



MAT 7634 (n,n') t:75-Re-184m5 76-0s-187  
 Radionuclide Production Cross Section 0.000 To 5.296 %

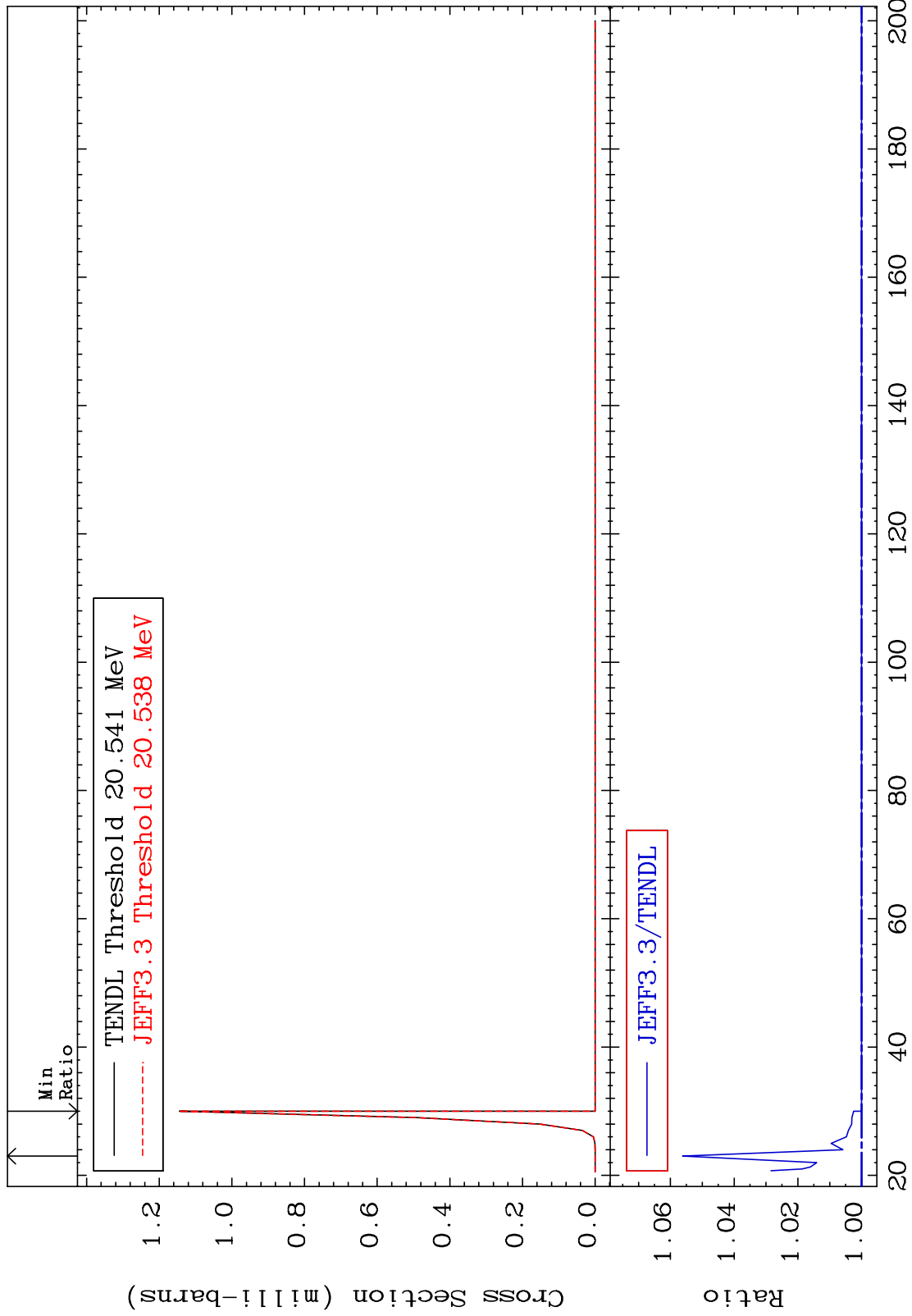


MAT 7634

(n,3n) p:75-Re-184g

76-Os-187

Radionuclide Production Cross Section 0.000 To 5.616 %



85

Incident Energy (MeV)

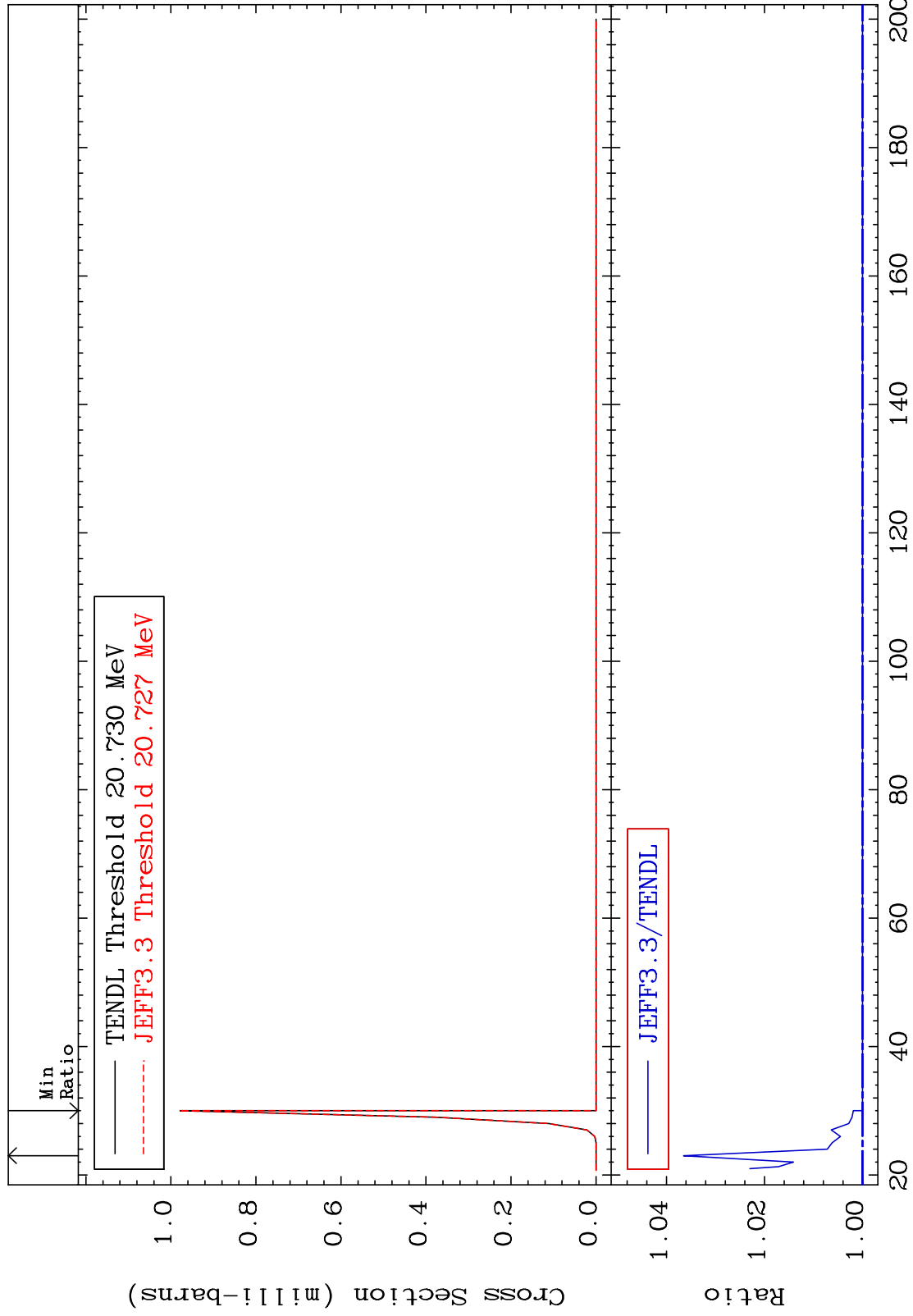
76-Os-187

MAT 7634

(n,3n) p:75-Re-184m5

76-Os-187

Radionuclide Production Cross Section 0.000 To 3.649 %

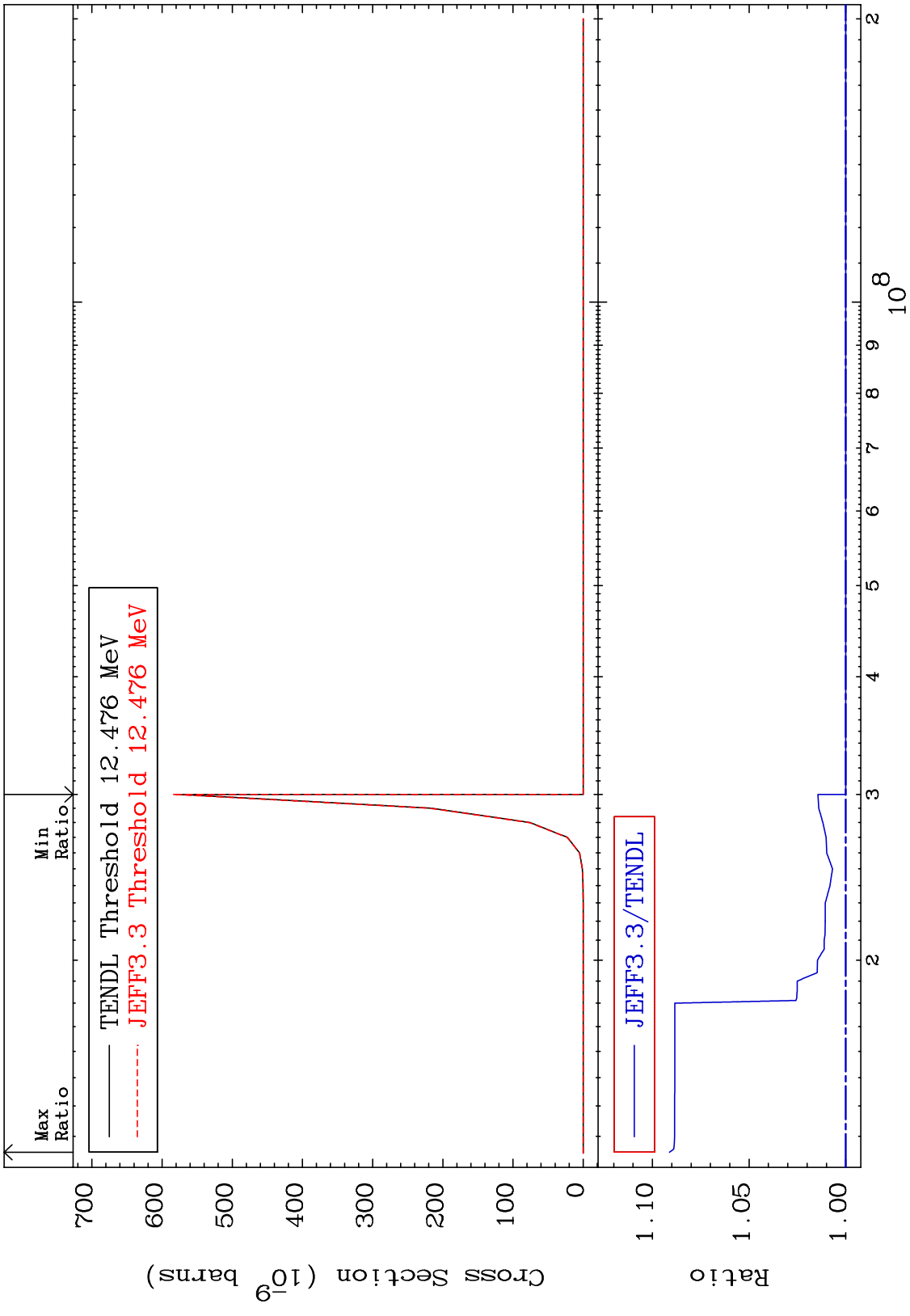


86

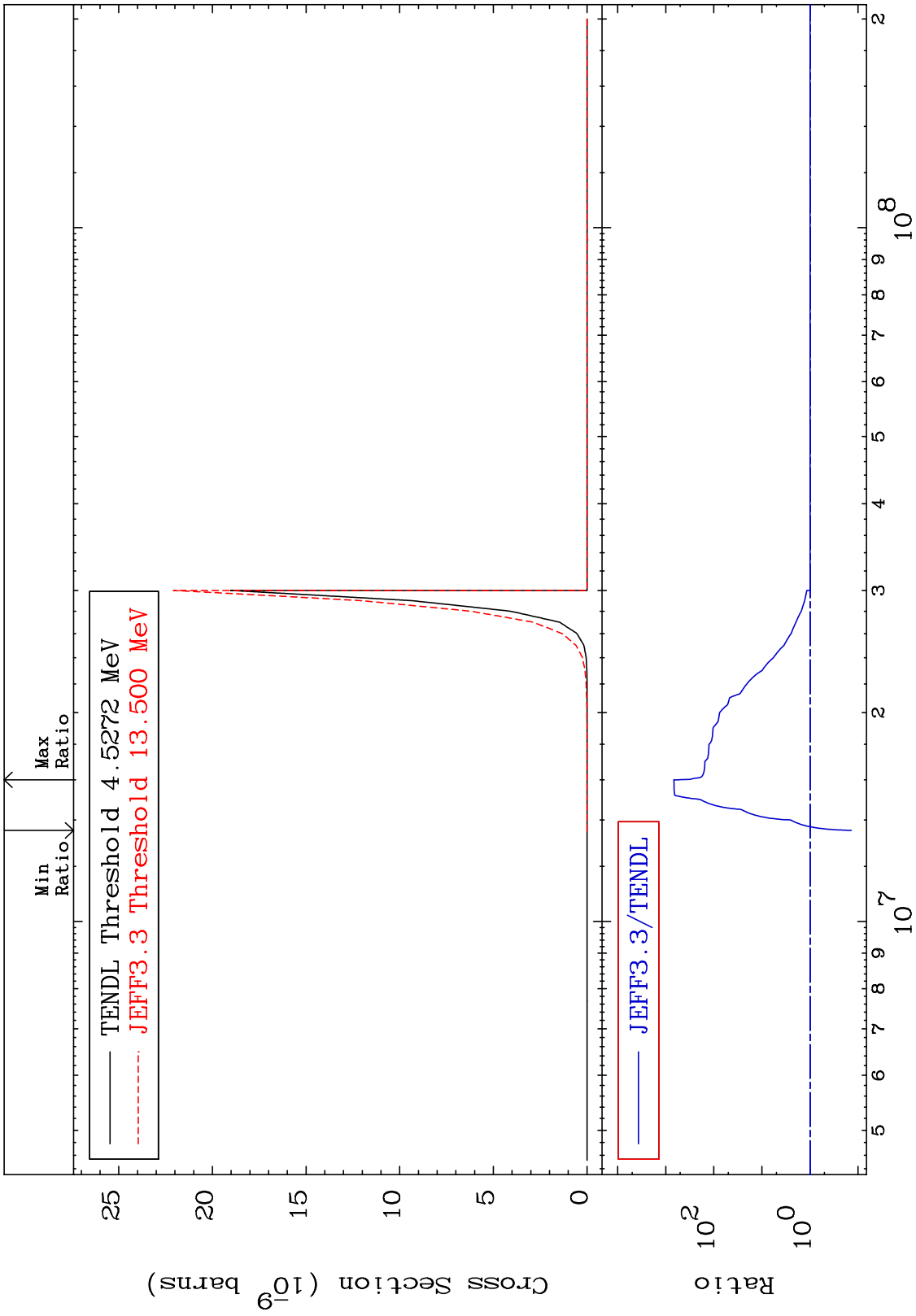
Incident Energy (MeV)

76-Os-187

MAT 7634 (n,2n) p:74-W -185g 76-0s-187  
 Radionuclide Production Cross Section 0.000 To 9.118 %





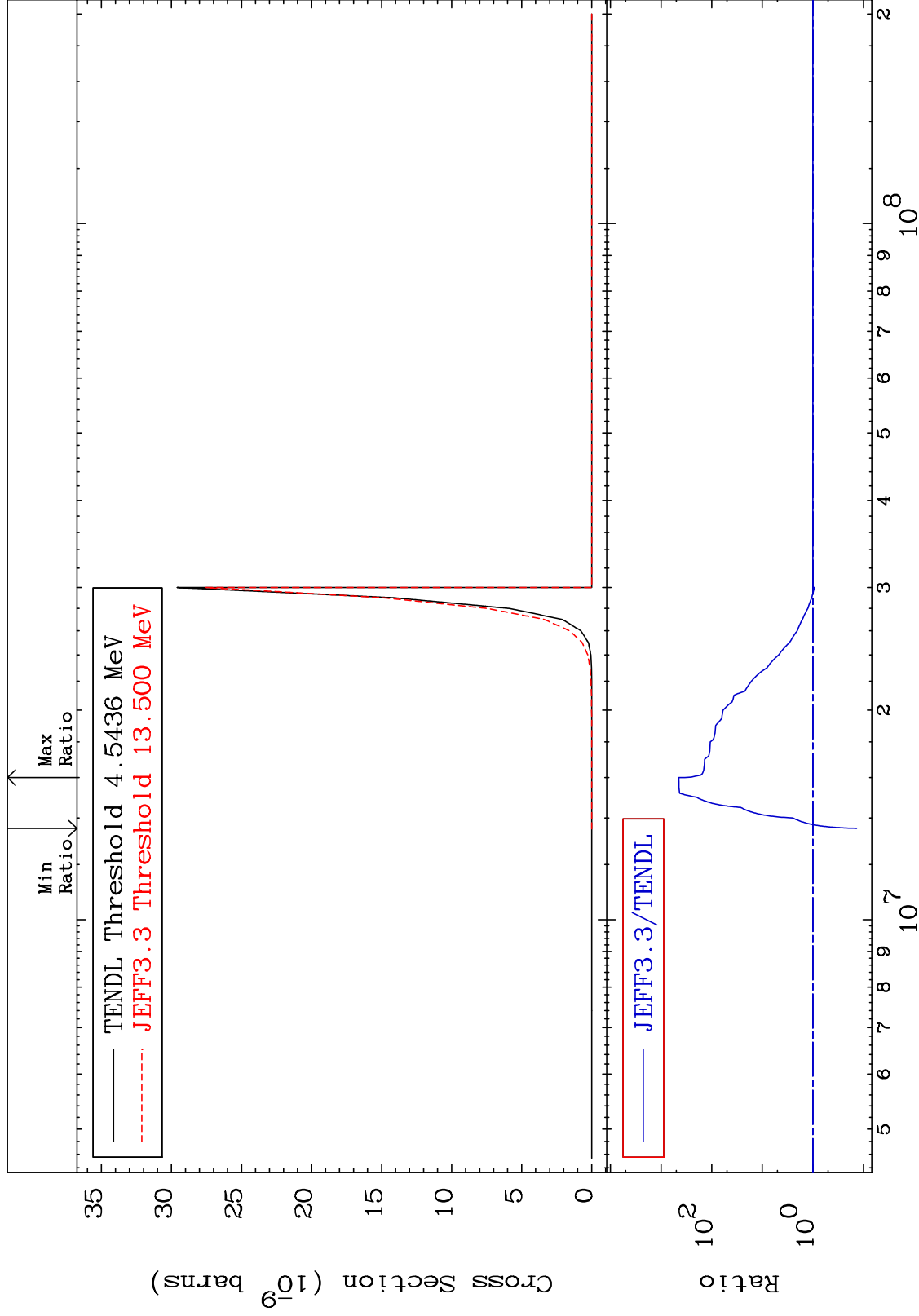


MAT 7634

(n,n') p α: 73-Ta-182m1

76-Os-187

Radionuclide Production Cross Section -86.30 To 9999. %

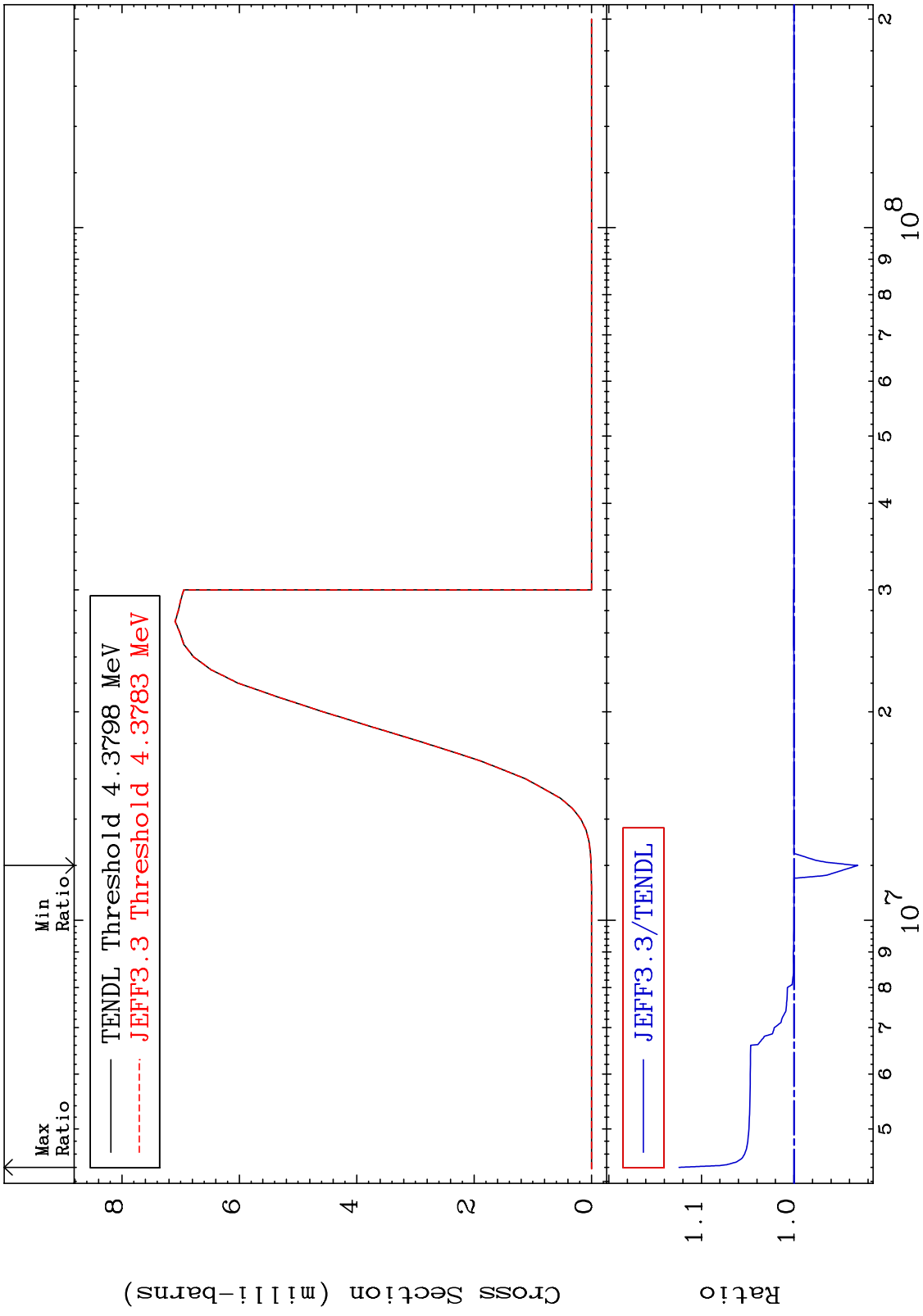


89

Incident Energy (eV)

76-Os-187

MAT 7634 (n,d):75-Re-186g 76-Os-187  
 Radionuclide Production Cross Section -6.896 To 12.42 %

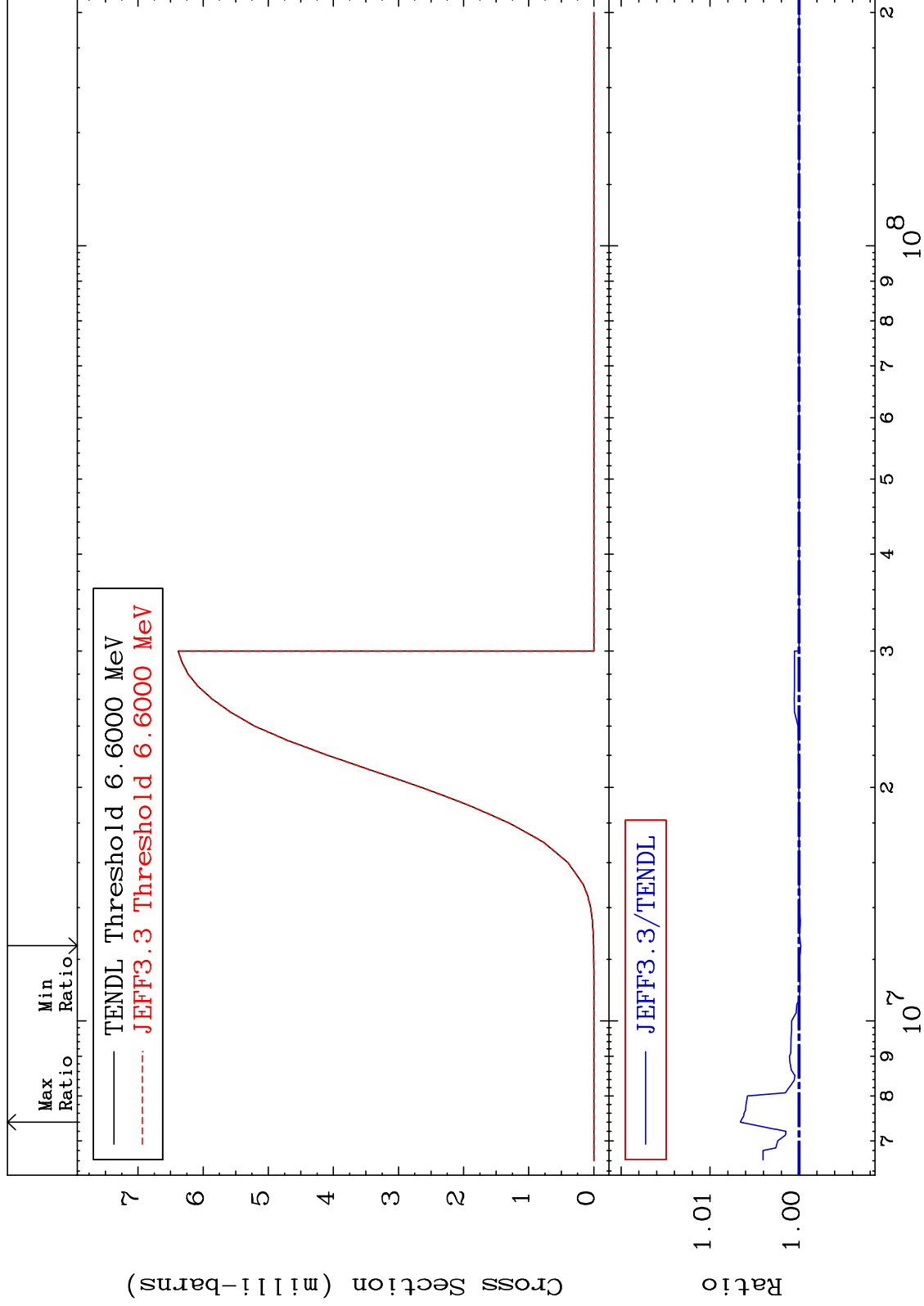


MAT 7634

(n, d) : 75-Re-186m4

76-Os-187

Radionuclide Production Cross Section -0.019 To 0.661 %



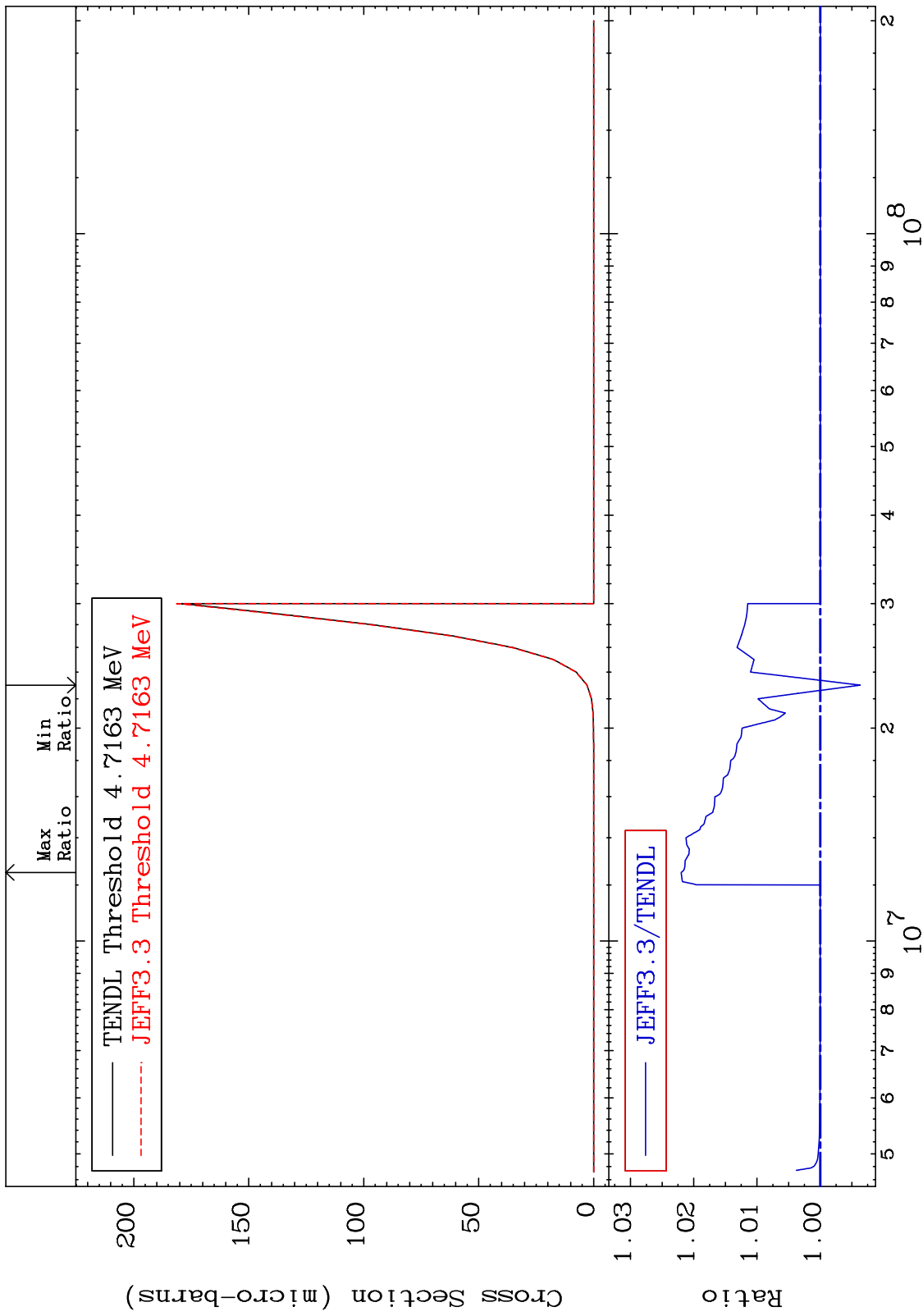
91

Incident Energy (eV)

76-Os-187

MAT 7634

(n, He-3) : 74-W -185g 76-0s-187  
Radionuclide Production Cross Section -0.632 To 2.197 %



92

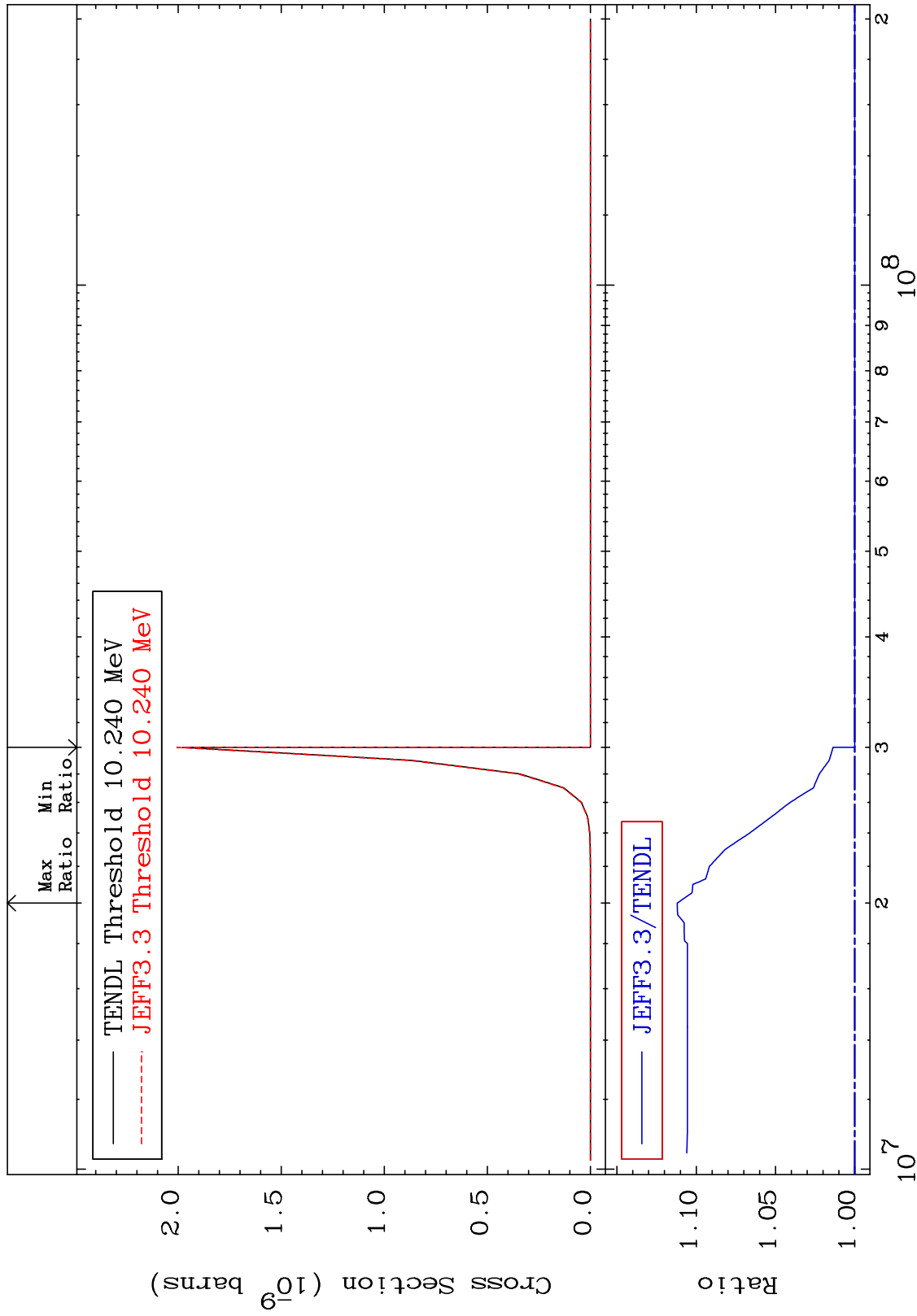
Incident Energy (eV)

76-0s-187

MAT 7634

(n,p) d:74-W -185g  
Radionuclide Production Cross Section 0.000 To 11.19 %

76-0s-187



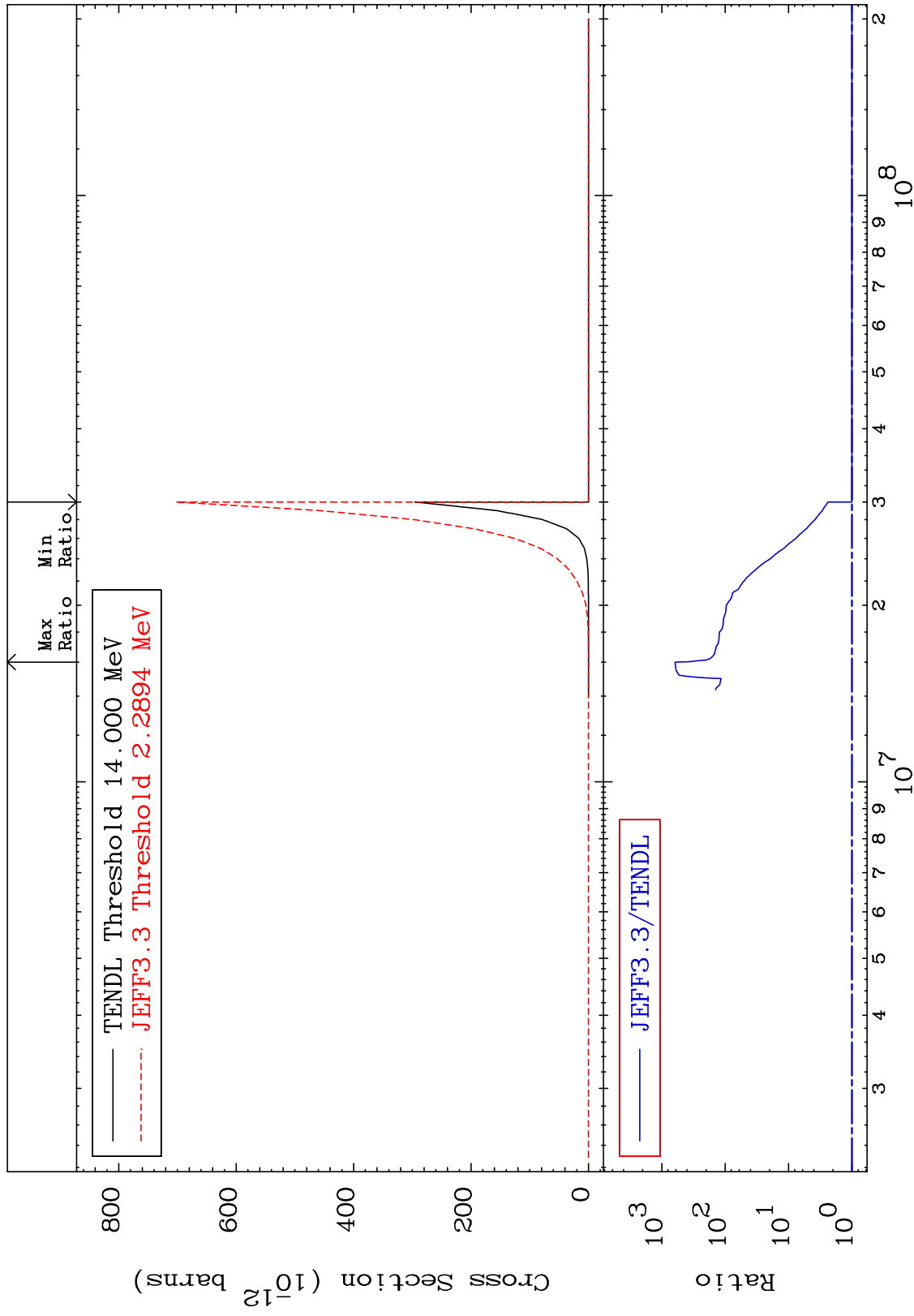
93

Incident Energy (eV)

76-0s-187

MAT 7634

(n, d)  $\alpha$ : <sup>73</sup>Ta-182g <sup>76</sup>Os-187  
Radionuclide Production Cross Section 0.000 To 9999. %



MAT 7634

(n, d)  $\alpha$ : 73-Ta-182m1 76-Os-187  
Radionuclide Production Cross Section 0.000 To 9999. %

