

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

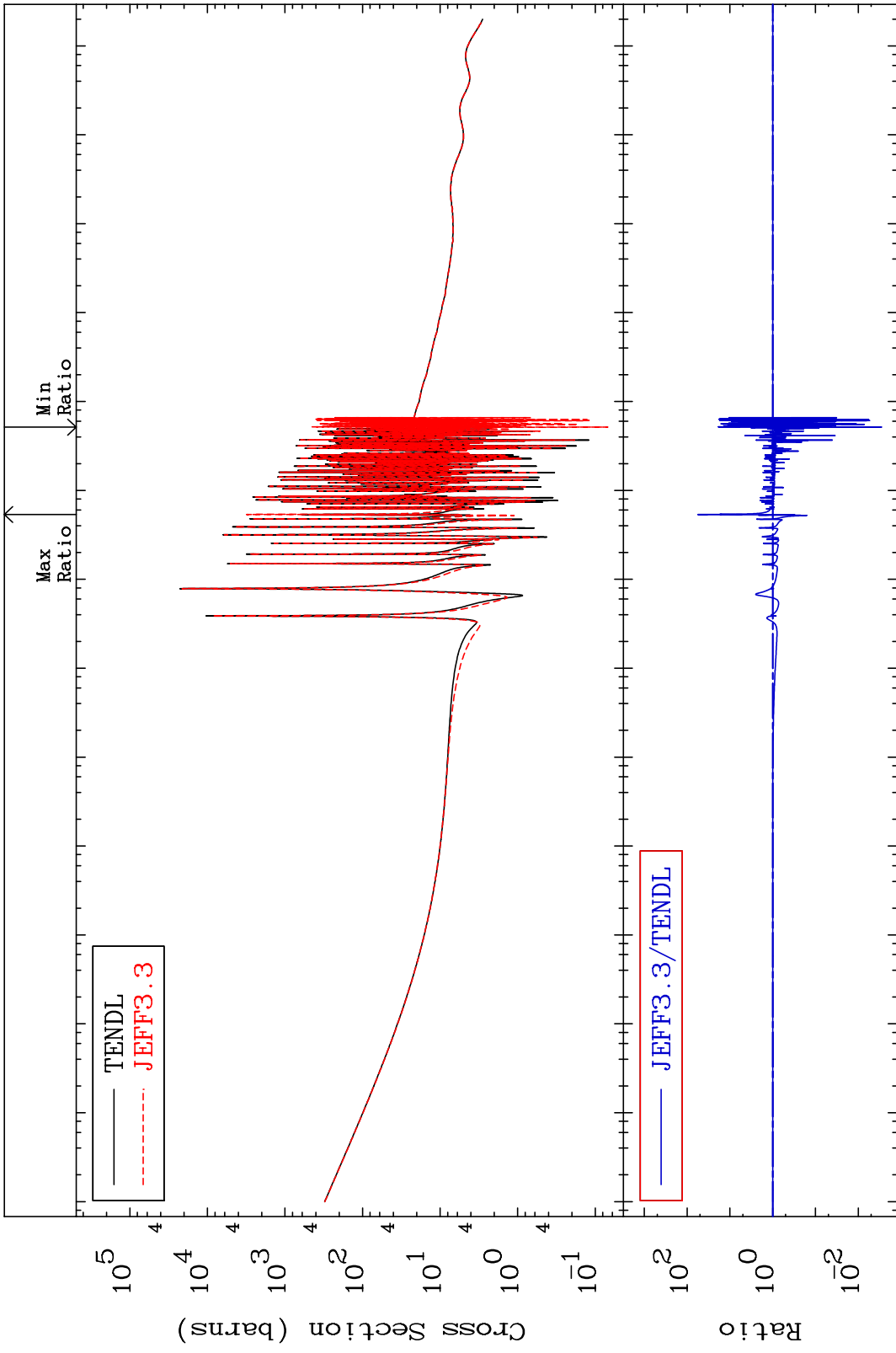
MAT 7637

Total

76-0s-188

Cross Section

-99.71 To 5534. %



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>-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>

Ratio

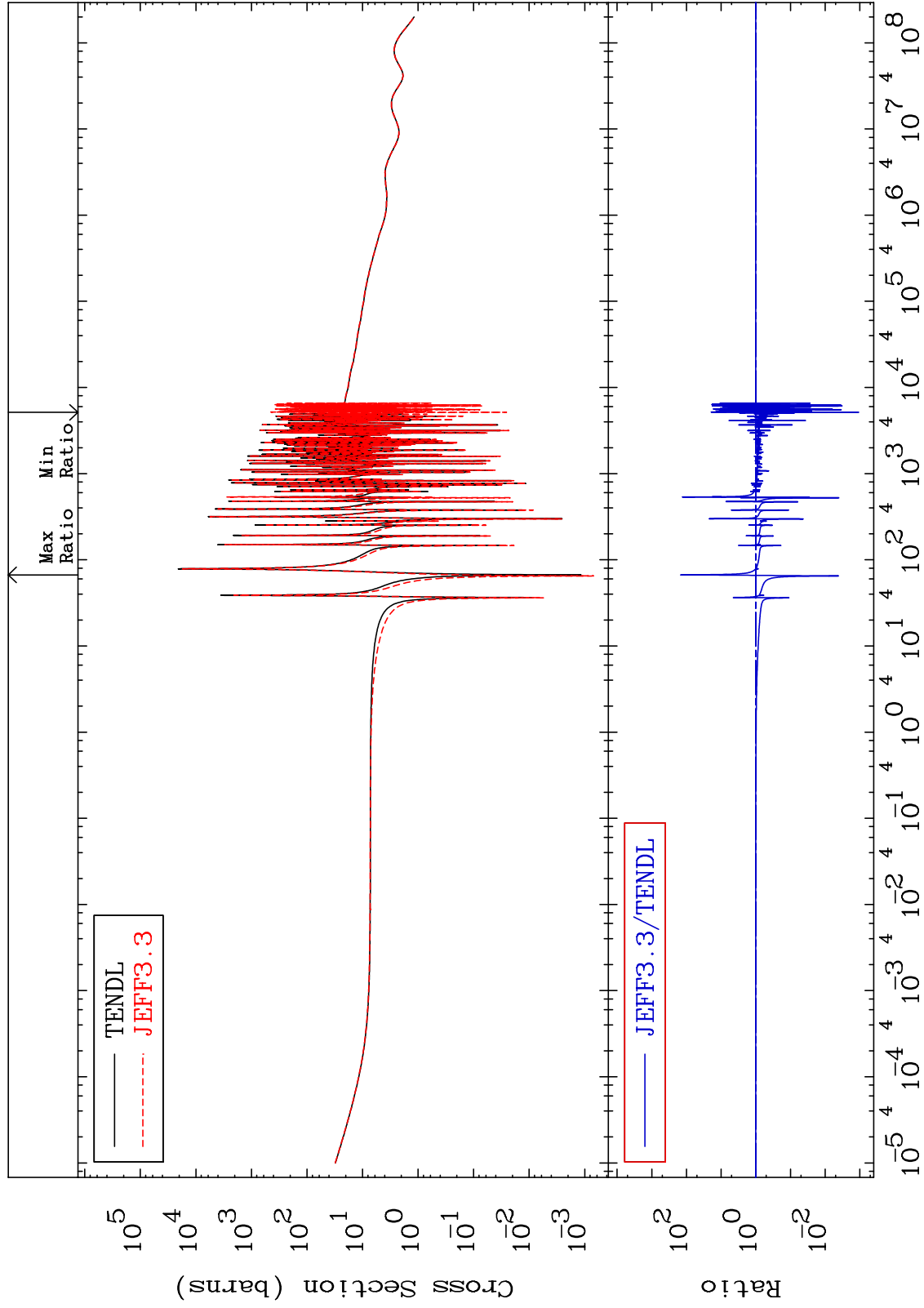
Incident Energy (eV)

76-0s-188

MAT 7637

Elastic  
Cross Section

76-0s-188  
-99.89 To 9999. %



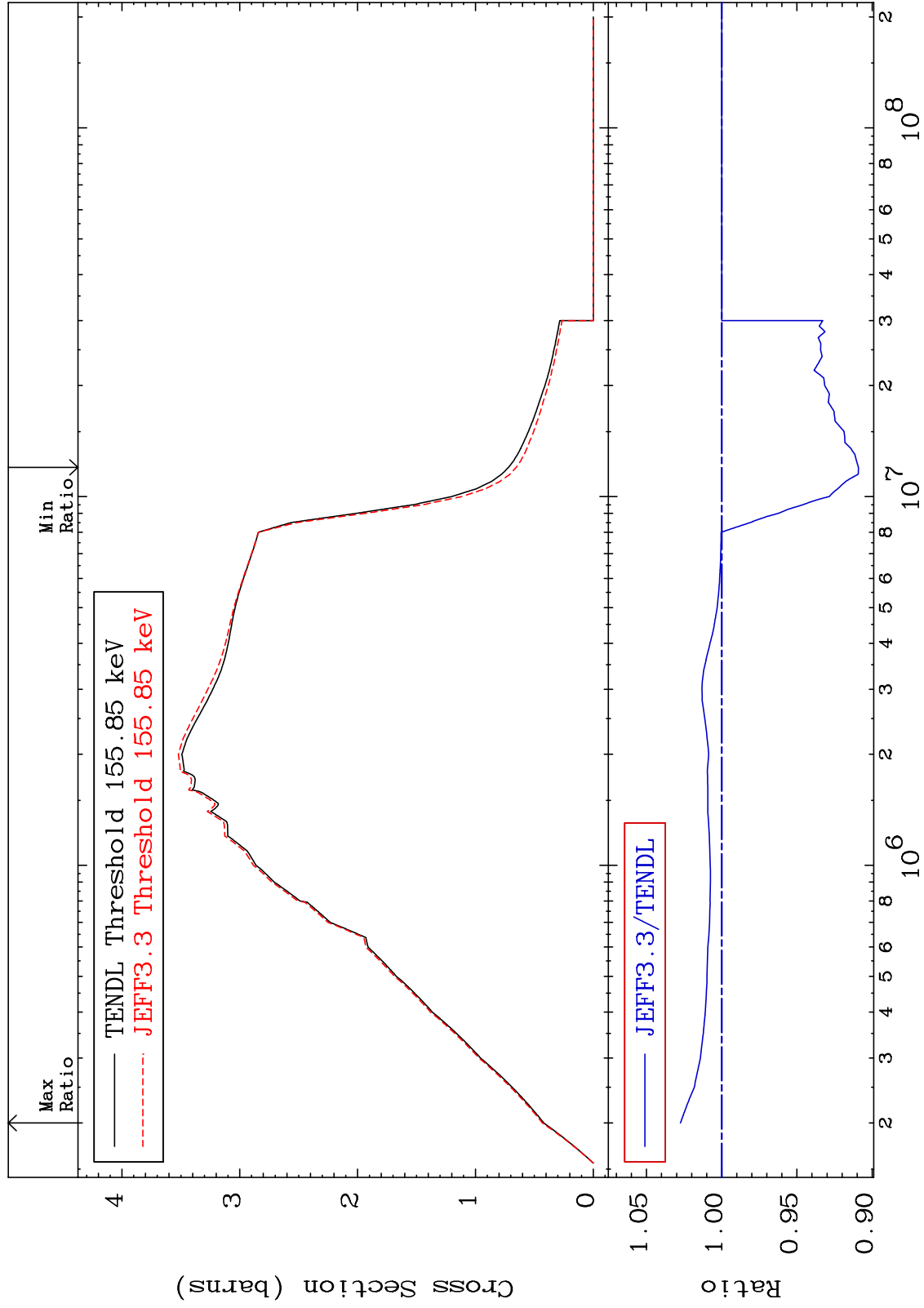
MAT 7637

Inelastic

76-0s-188

Cross Section

-9.093 To 2.743 %



3

Incident Energy (eV)

76-0s-188

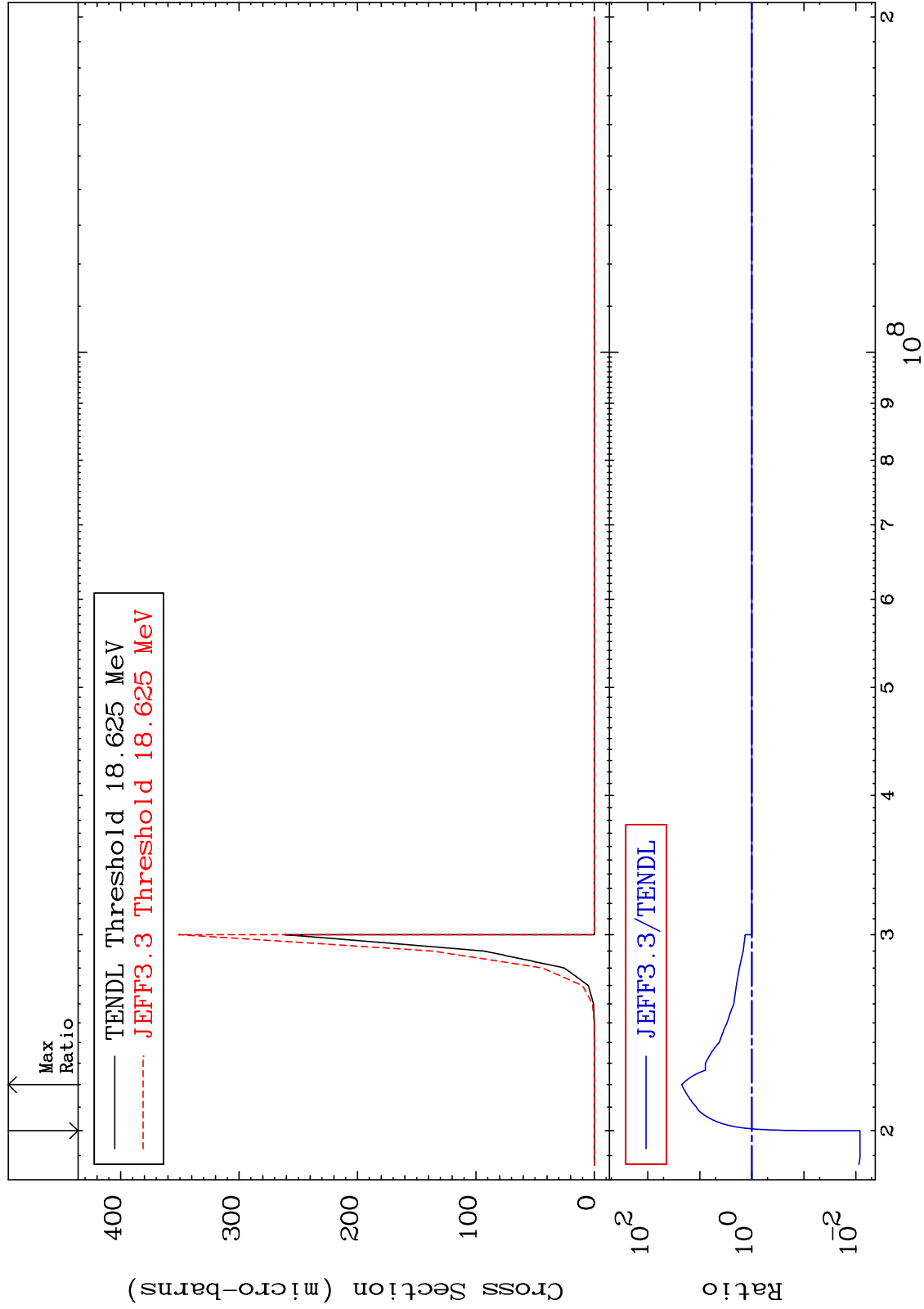
MAT 7637

(n,2n) d

76-0s-188

Cross Section

-99.17 To 2137. %



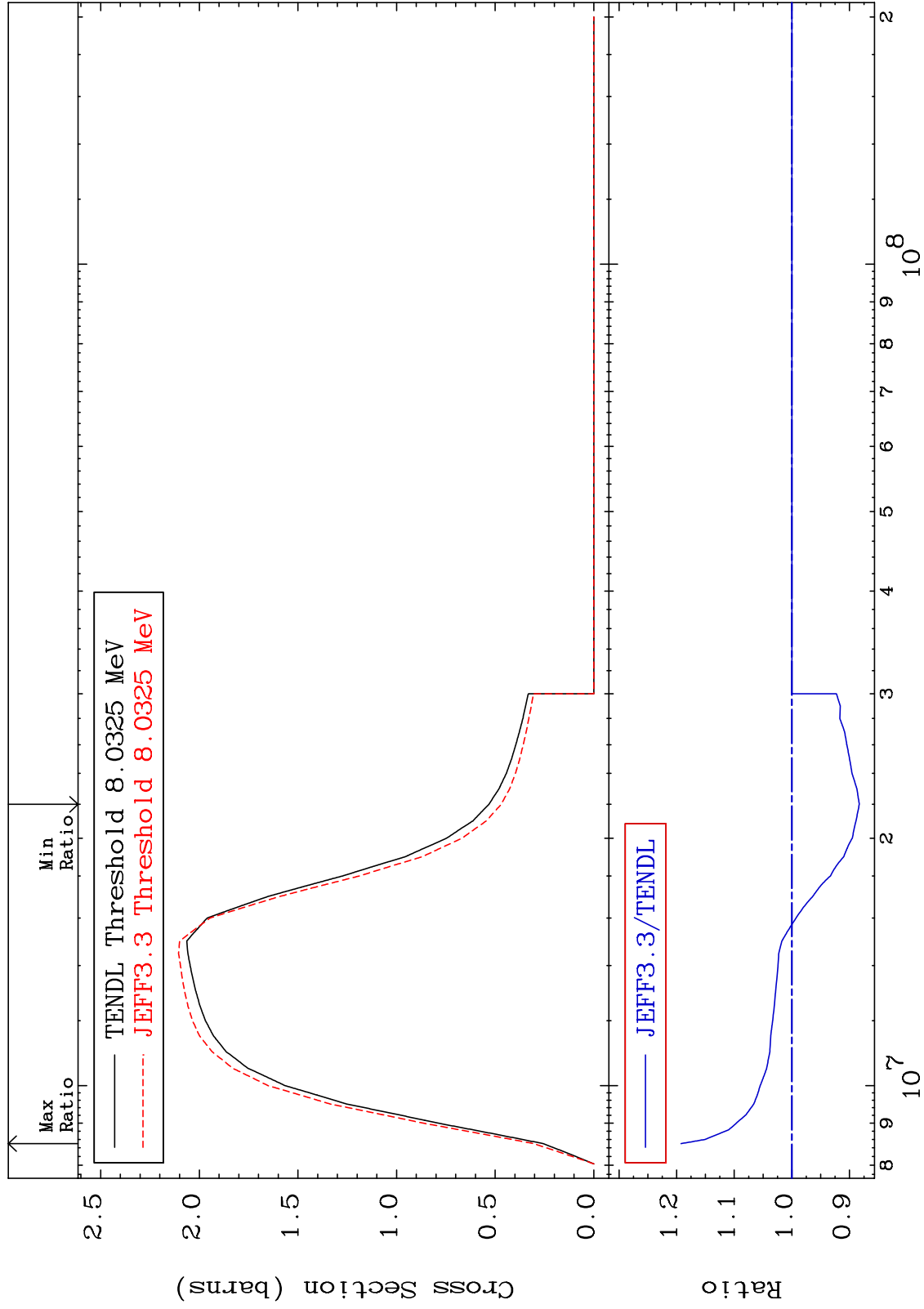
MAT 7637

(n,2n)

76-0s-188

Cross Section

-11.69 To 19.23 %



5

Incident Energy (eV)

76-0s-188

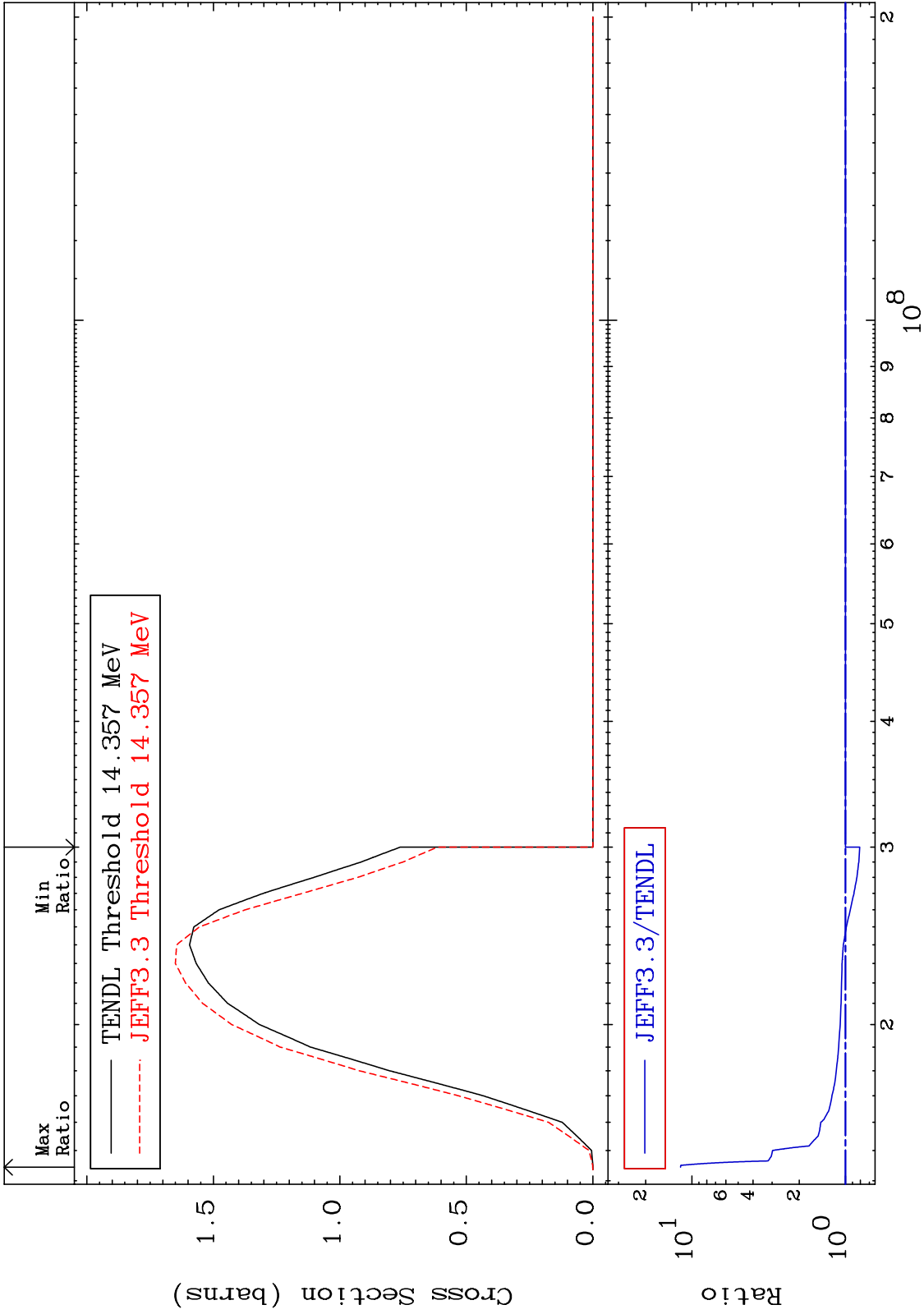
MAT 7637

(n, 3n)

76-0s-188

Cross Section

-19.29 To 1084. %



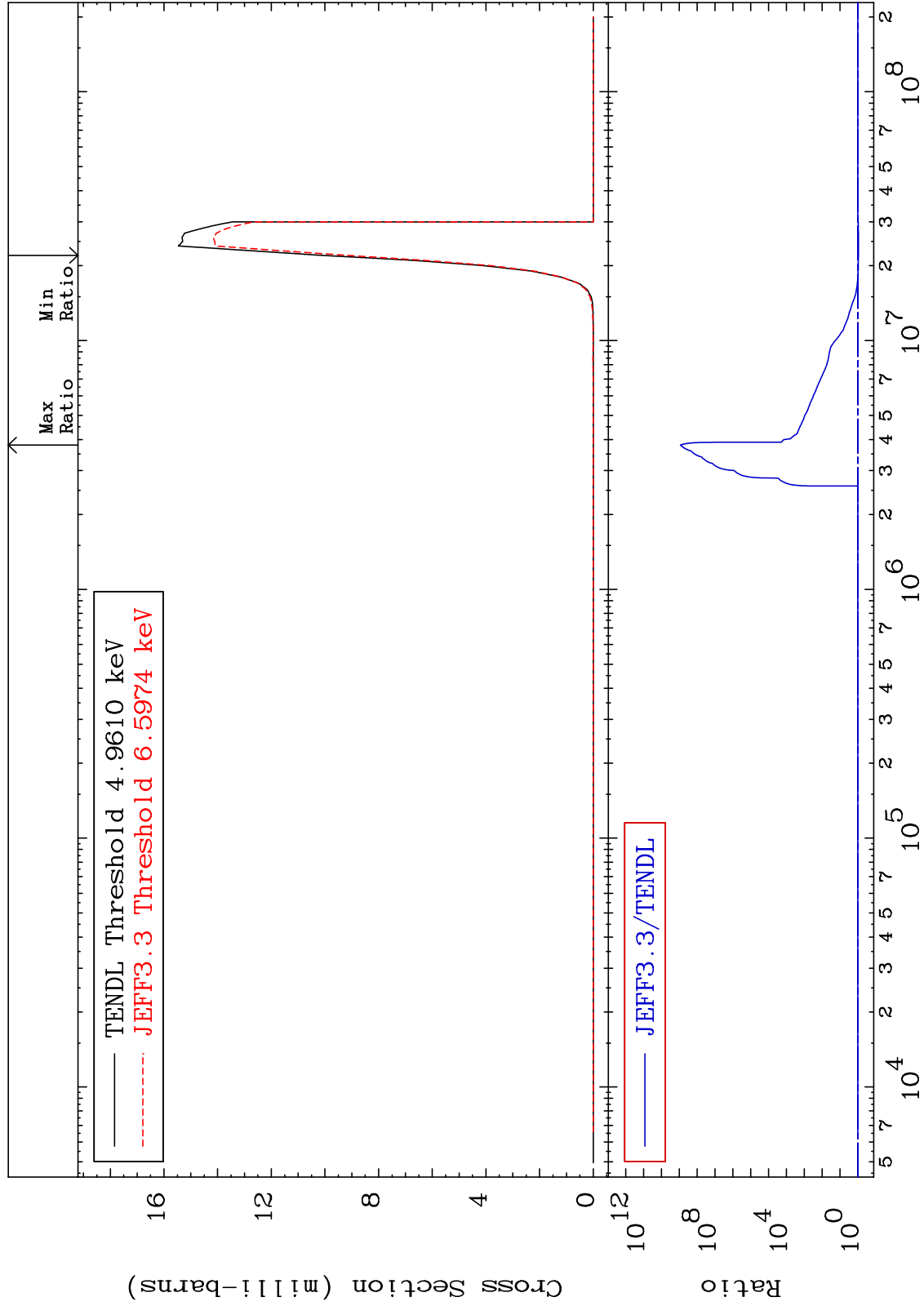
MAT 7637

(n,n')  $\alpha$

76-0s-188

Cross Section

-9.186 To 9999. %



7

Incident Energy (eV)

76-0s-188



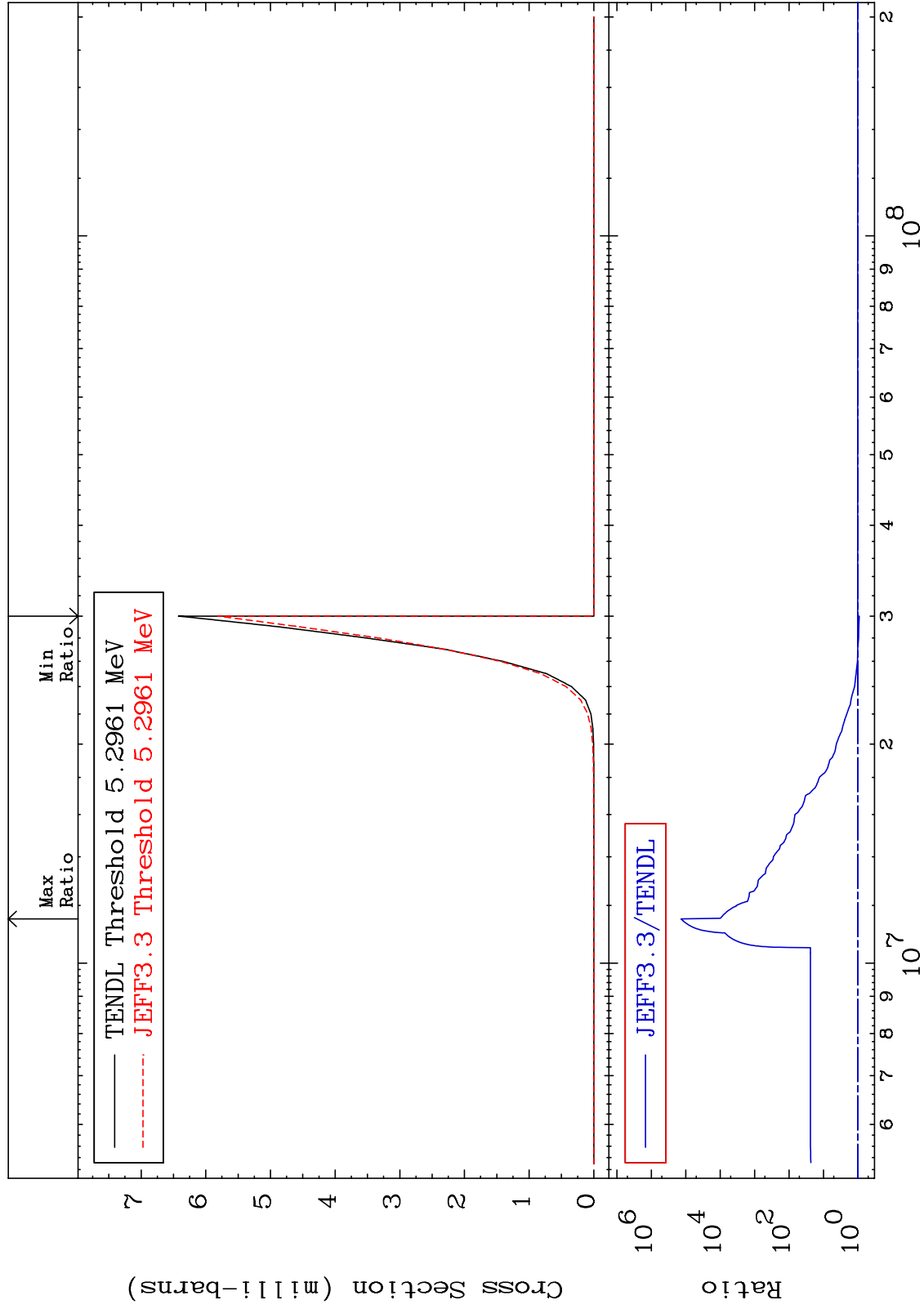
MAT 7637

(n,2n)  $\alpha$

76-0s-188

Cross Section

-9.458 To 9999. %



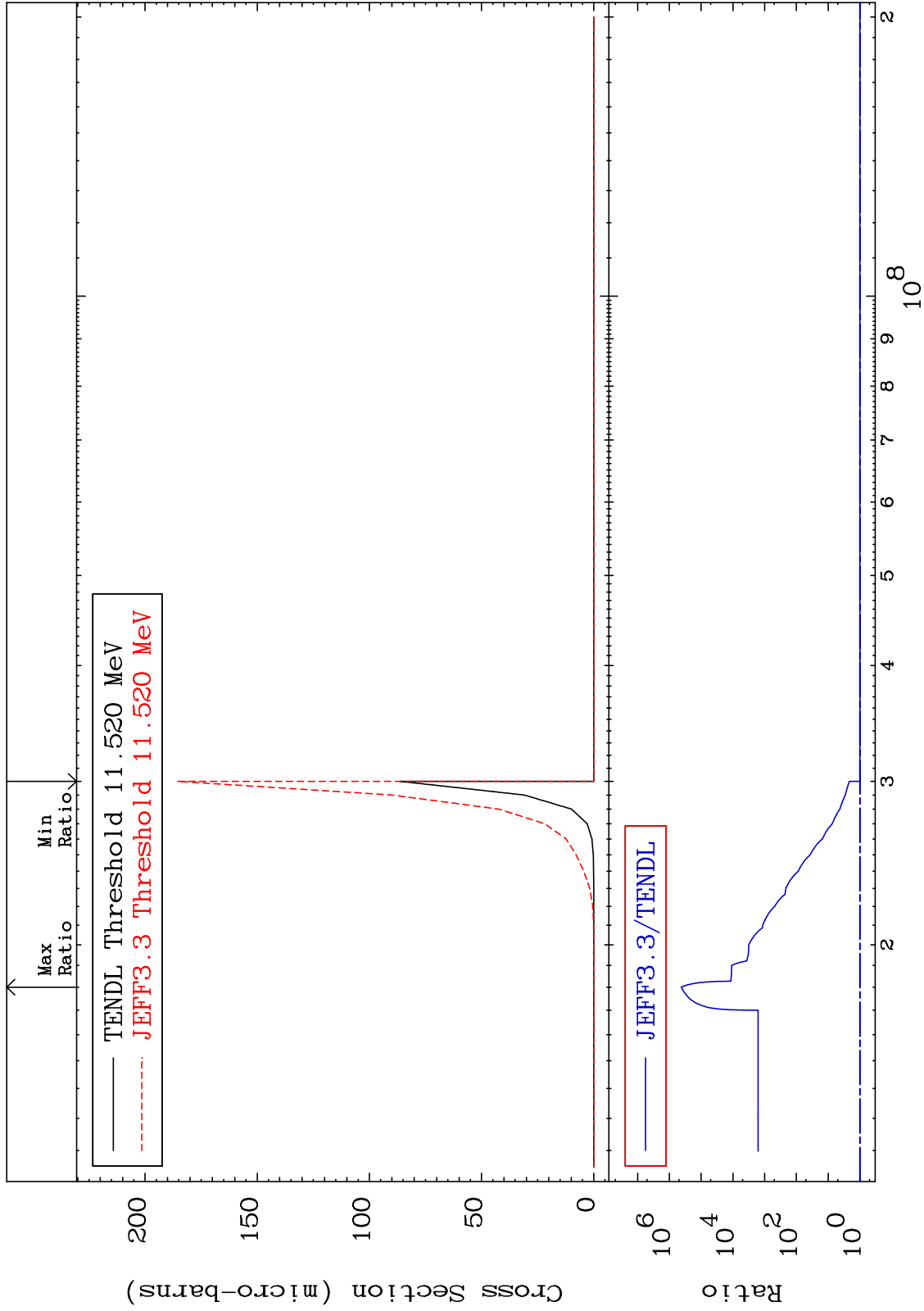
MAT 7637

(n,3n)  $\alpha$

76-0s-188

Cross Section

0.000 To 9999. %



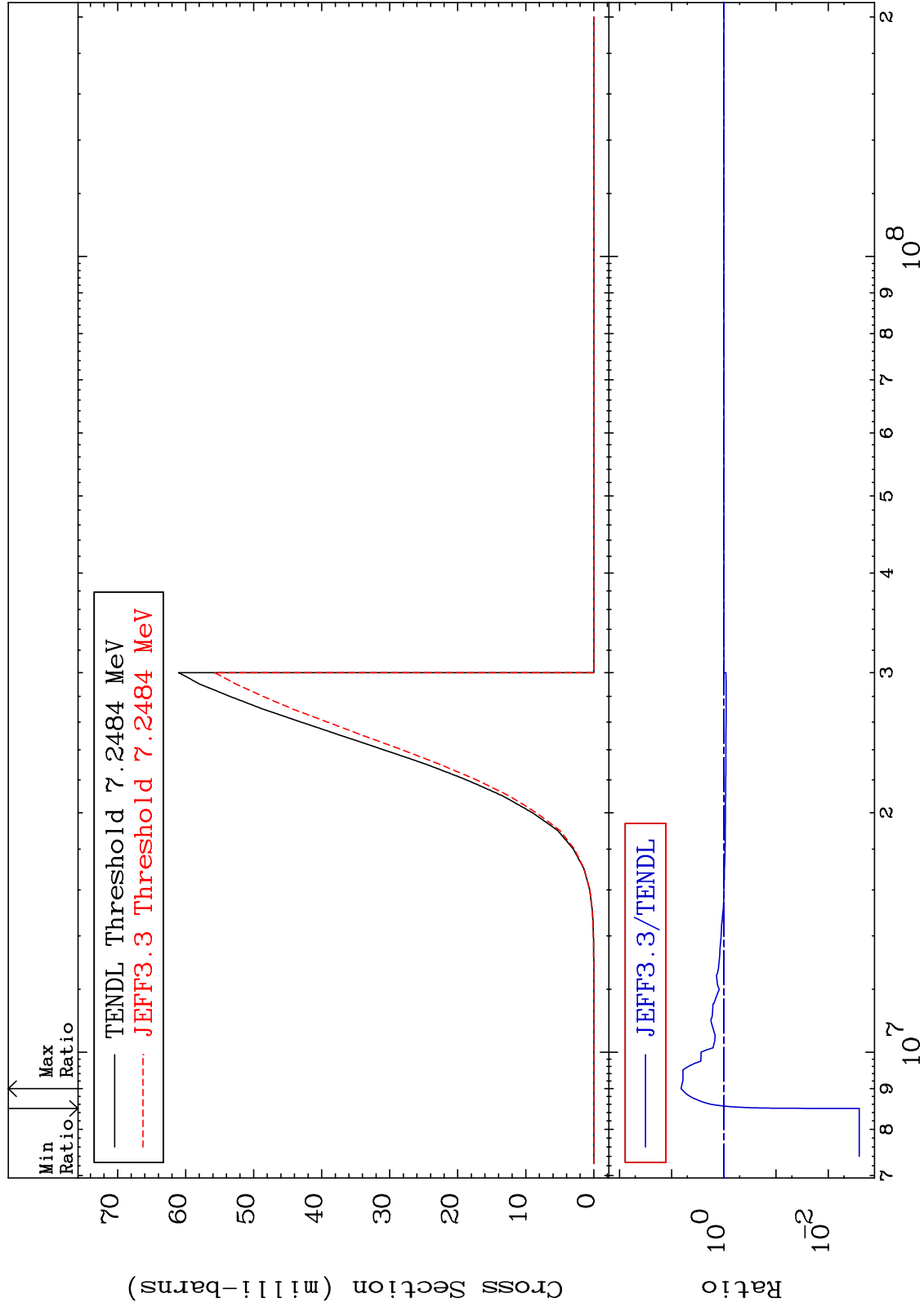
MAT 7637

(n,n') p

76-0s-188

Cross Section

-99.75 To 561.6 %



76-0s-188

Incident Energy (eV)

10

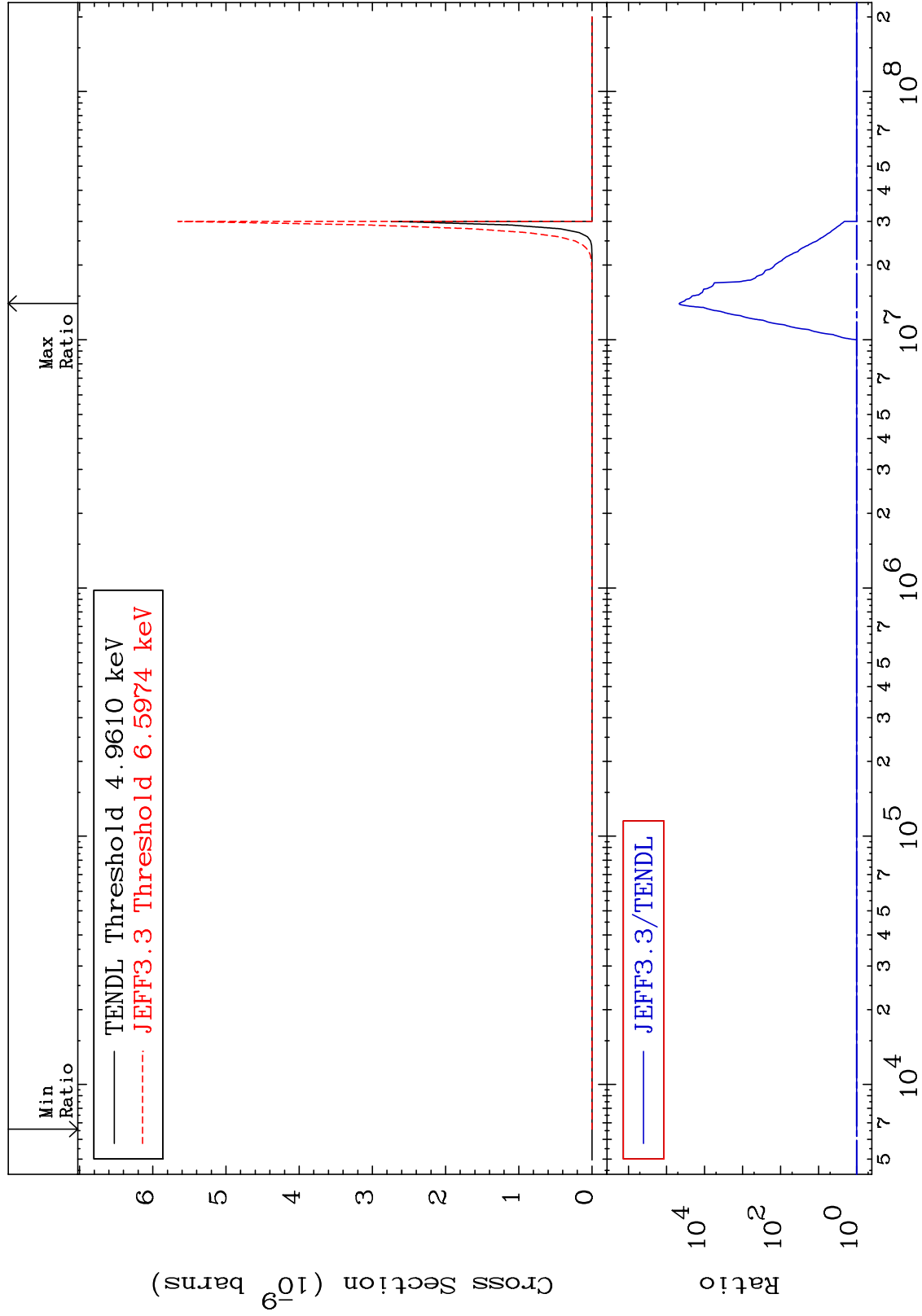
MAT 7637

(n,n') 2α

76-0s-188

Cross Section

0.000 To 9999. %



11

76-0s-188

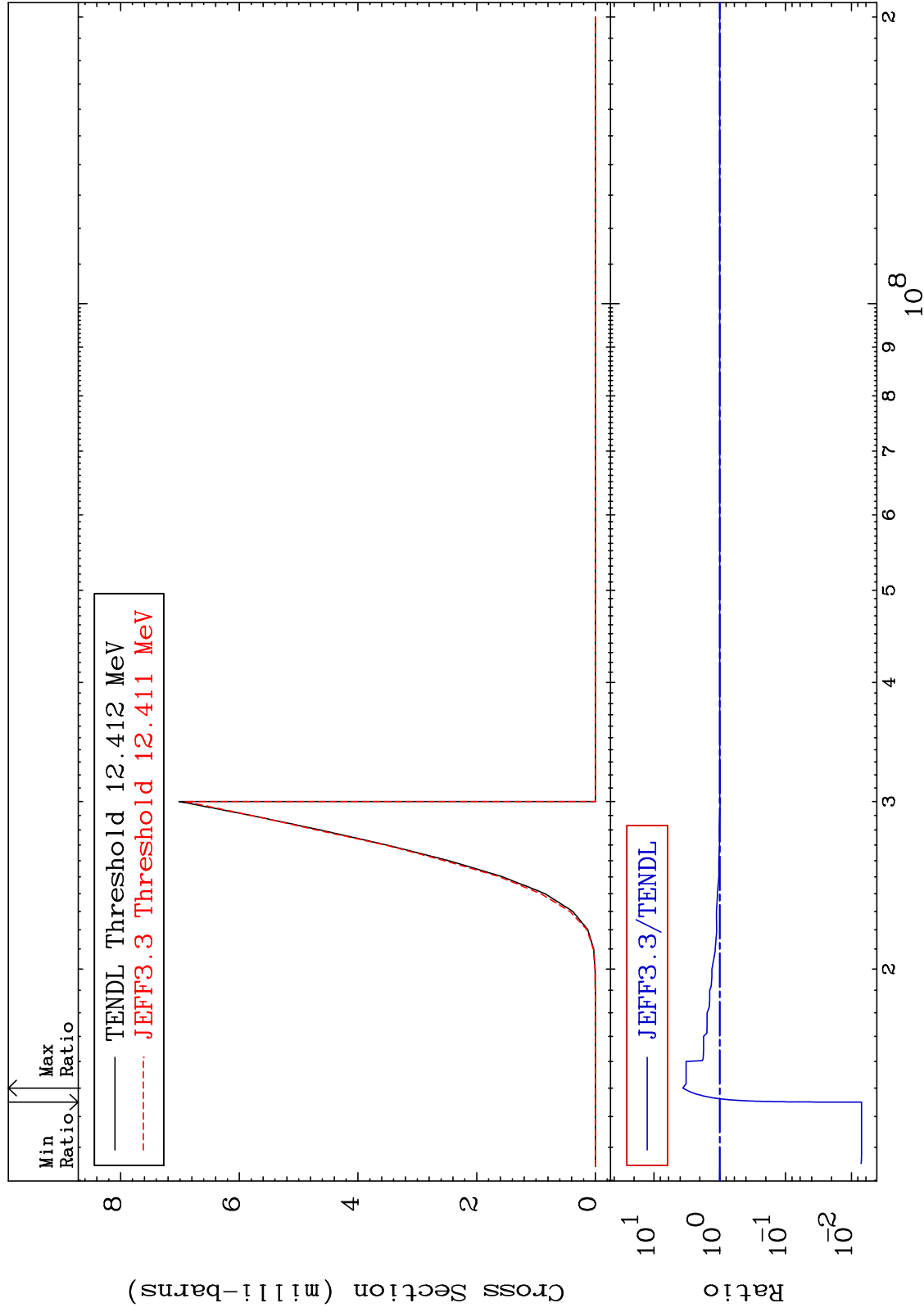
MAT 7637

(n, n') d

76-0s-188

Cross Section

-99.30 To 263.2 %



12

Incident Energy (eV)

76-0s-188

MAT 7637

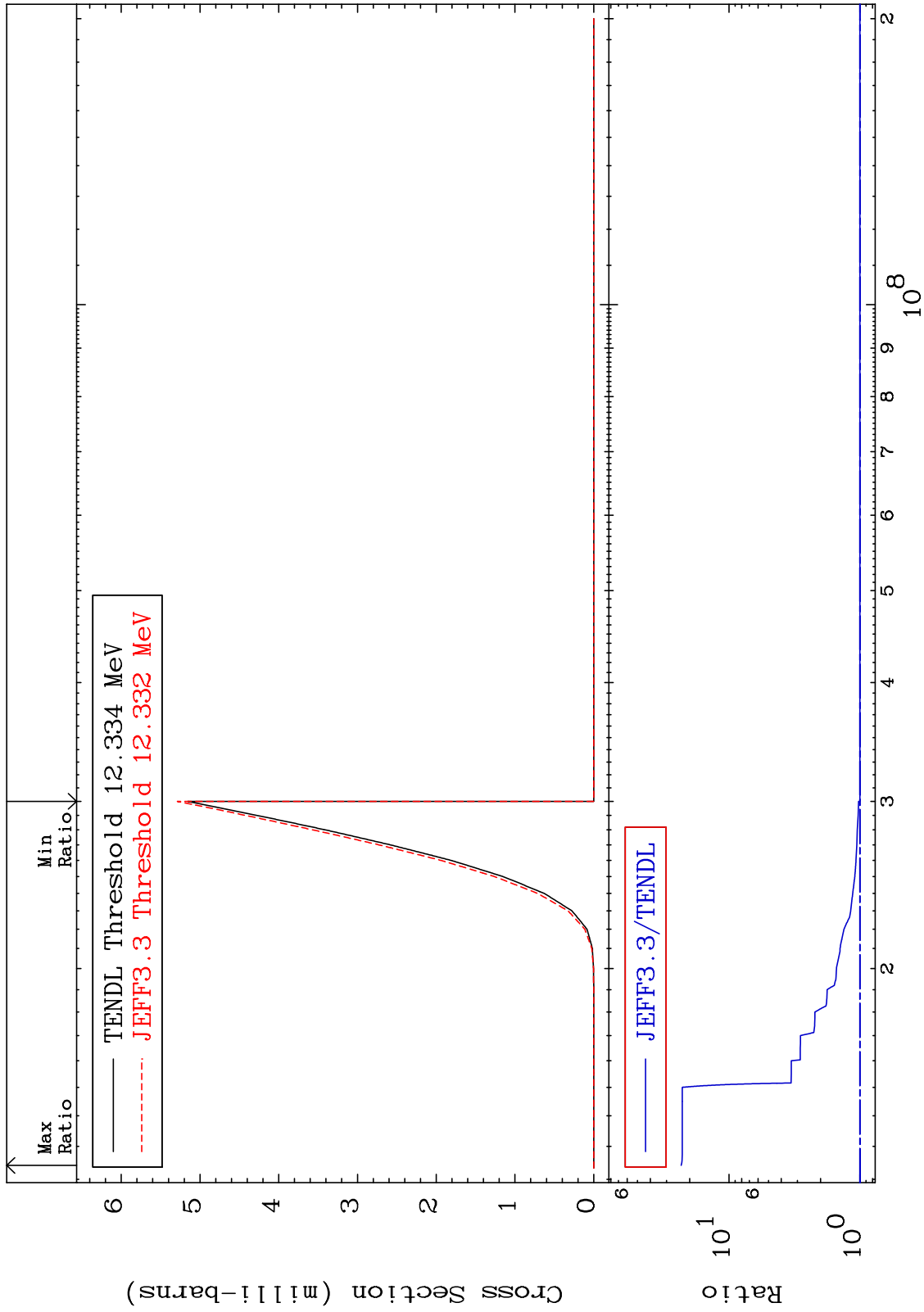
(n,n') t

76-0s-188

Cross Section

0.000

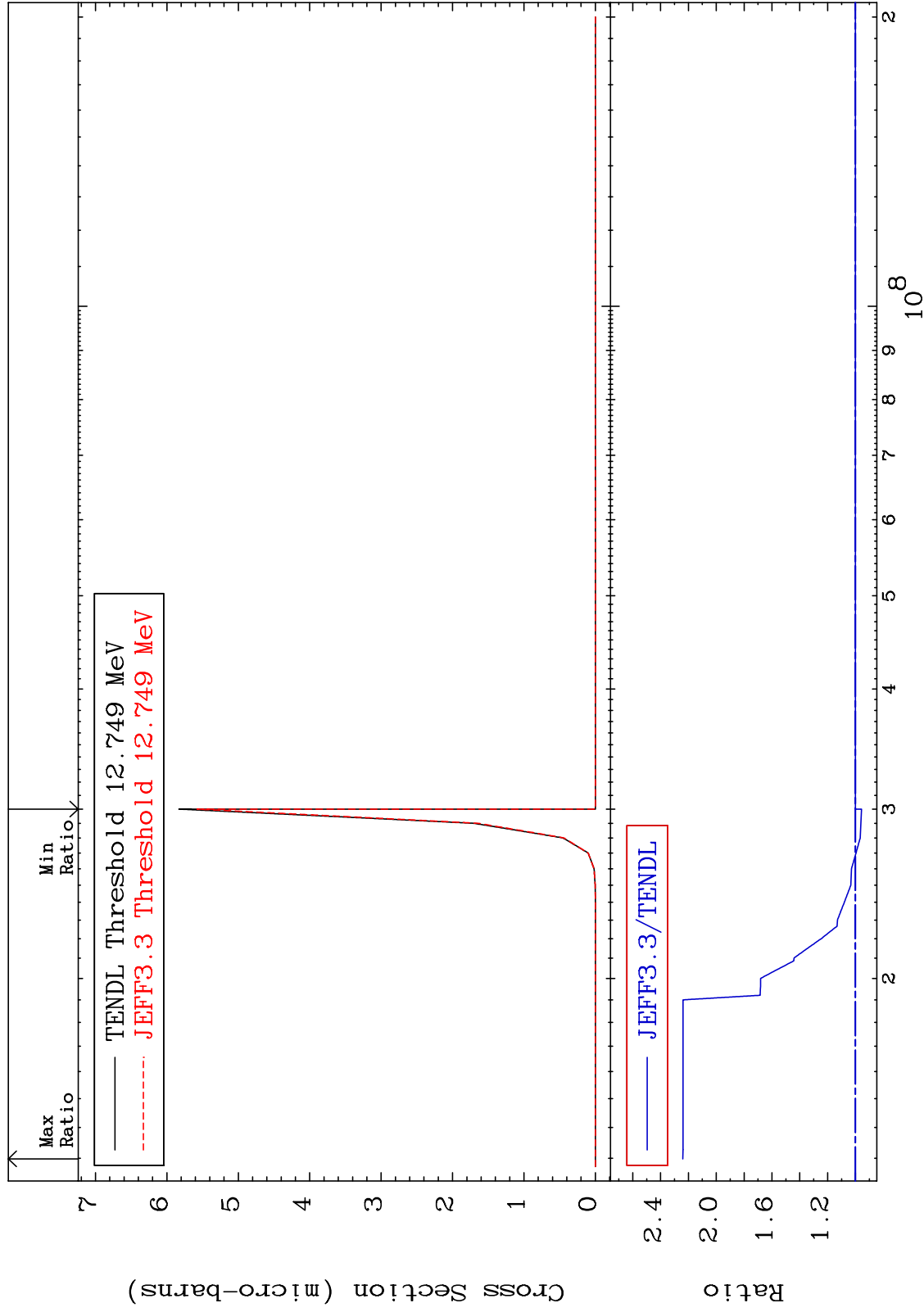
To 2220. %



MAT 7637

(n, n') He-3  
Cross Section

76-0s-188  
-4.392 To 124.0 %



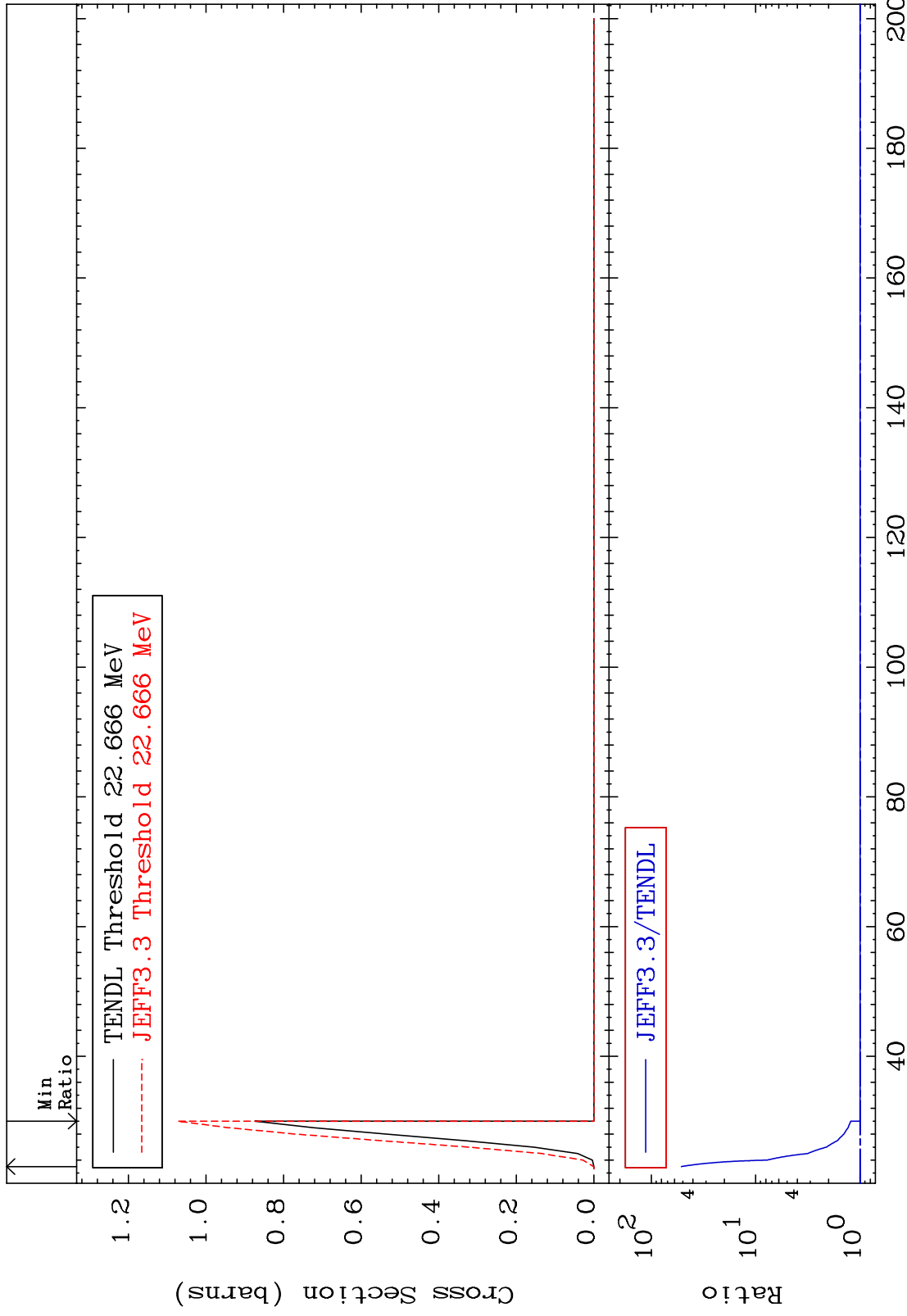
MAT 7637

(n, 4n)

76-0s-188

Cross Section

0.000 To 5052. %

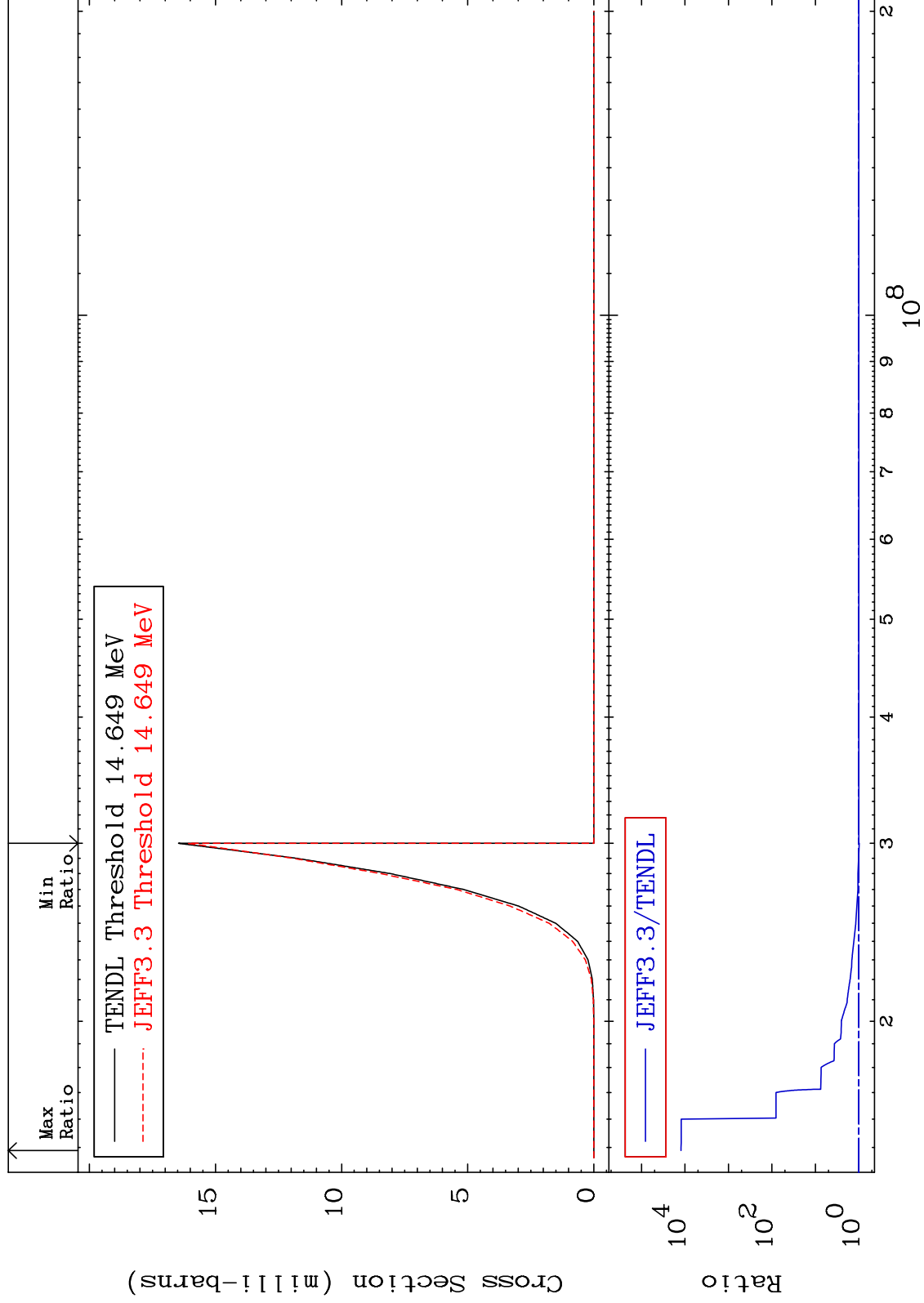




MAT 7637

(n,2n) p  
Cross Section

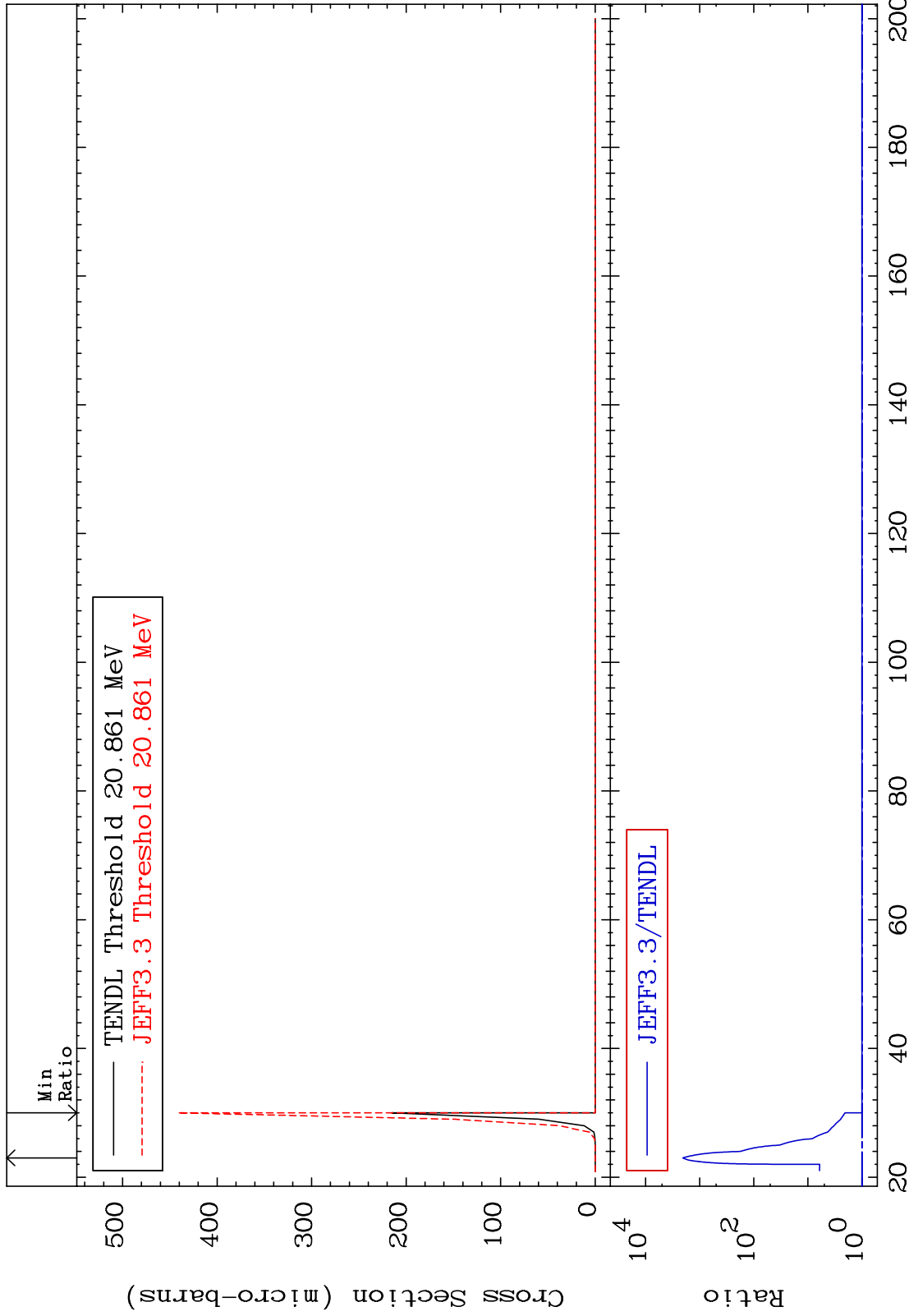
76-0s-188  
-2.270 To 9999. %



MAT 7637

(n,3n) p  
Cross Section

76-0s-188  
0.000 To 9999. %



17

Incident Energy (MeV)

76-0s-188

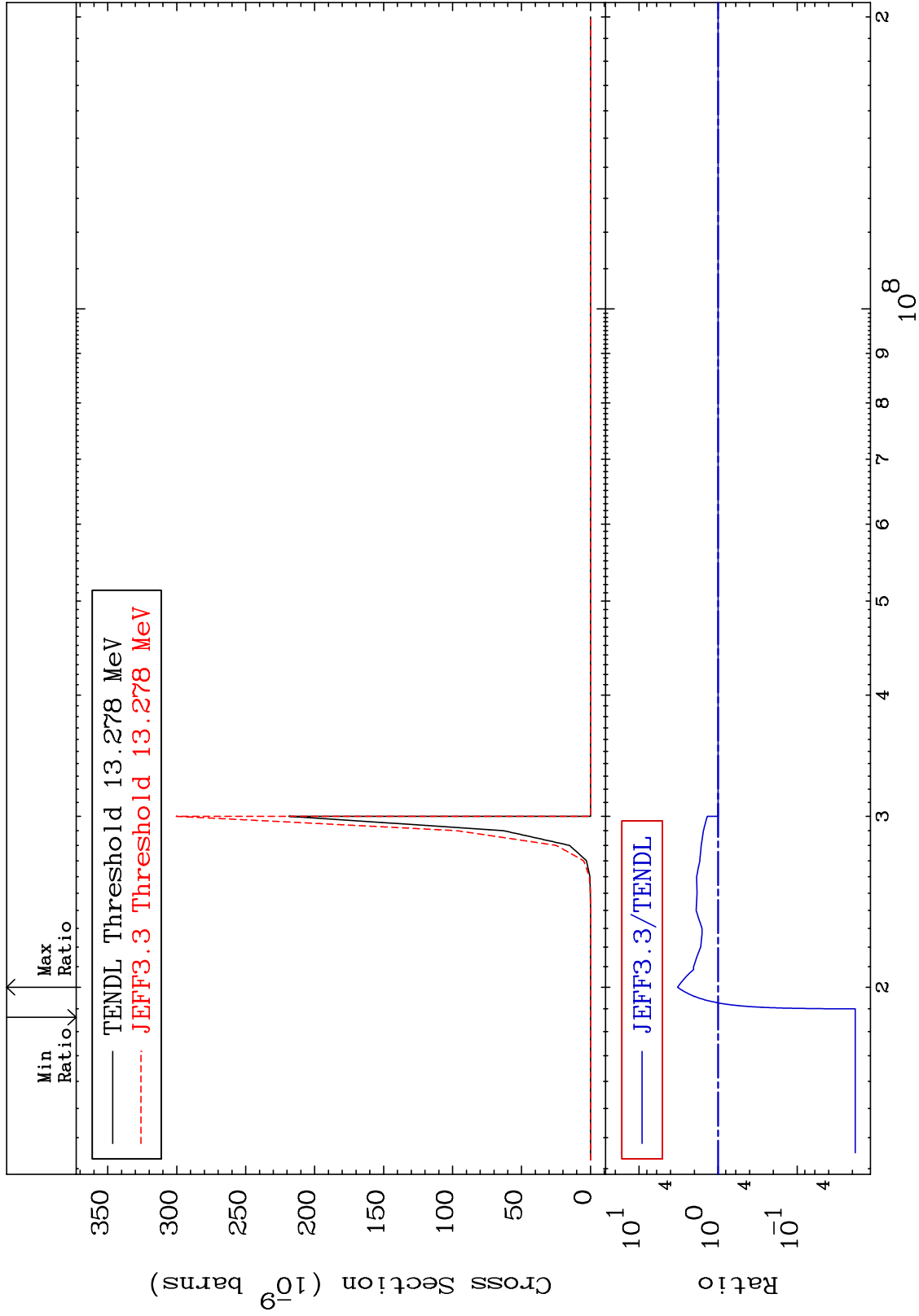
MAT 7637

(n,2n) p

76-0s-188

Cross Section

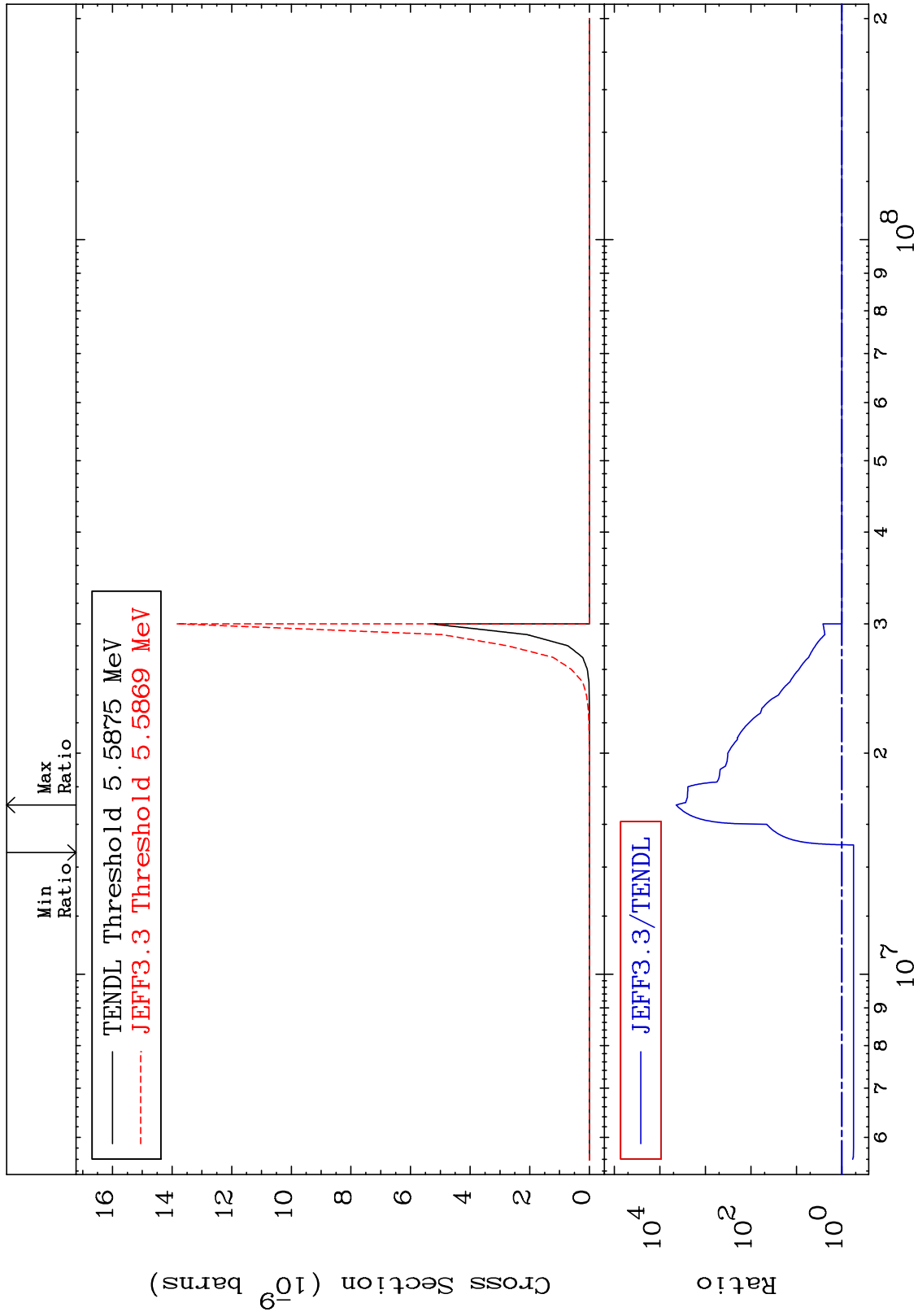
-98.16 To 226.3 %

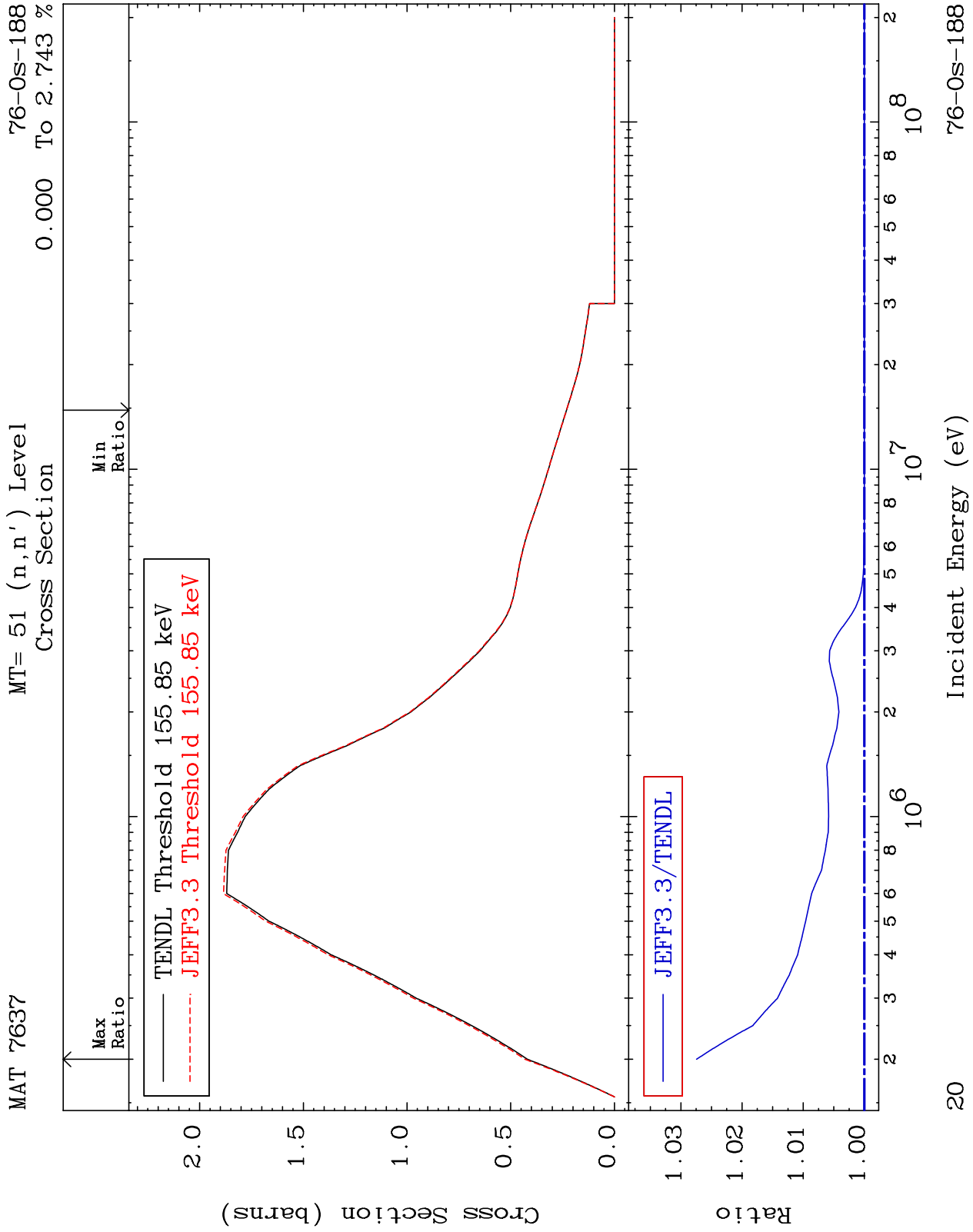


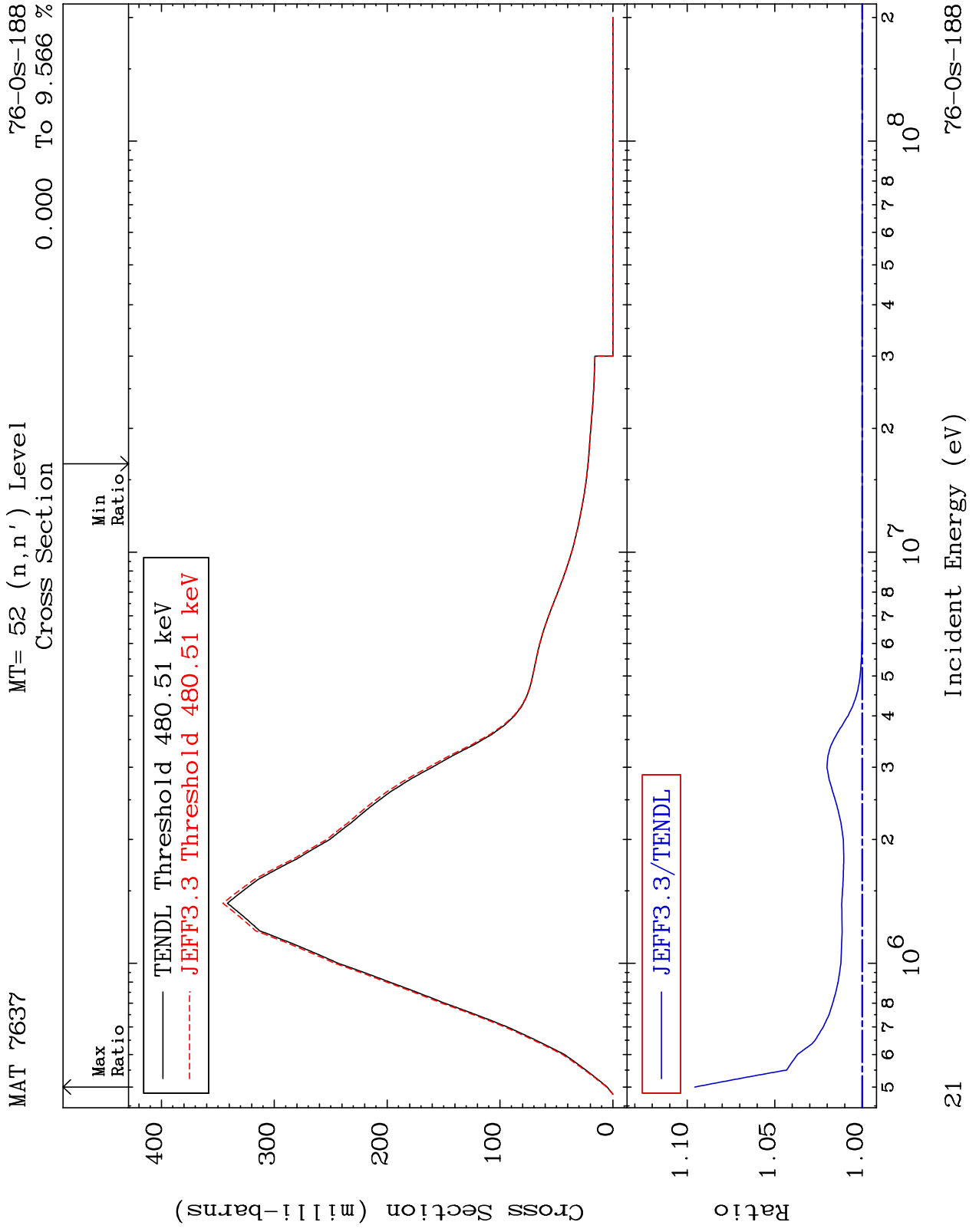
MAT 7637

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

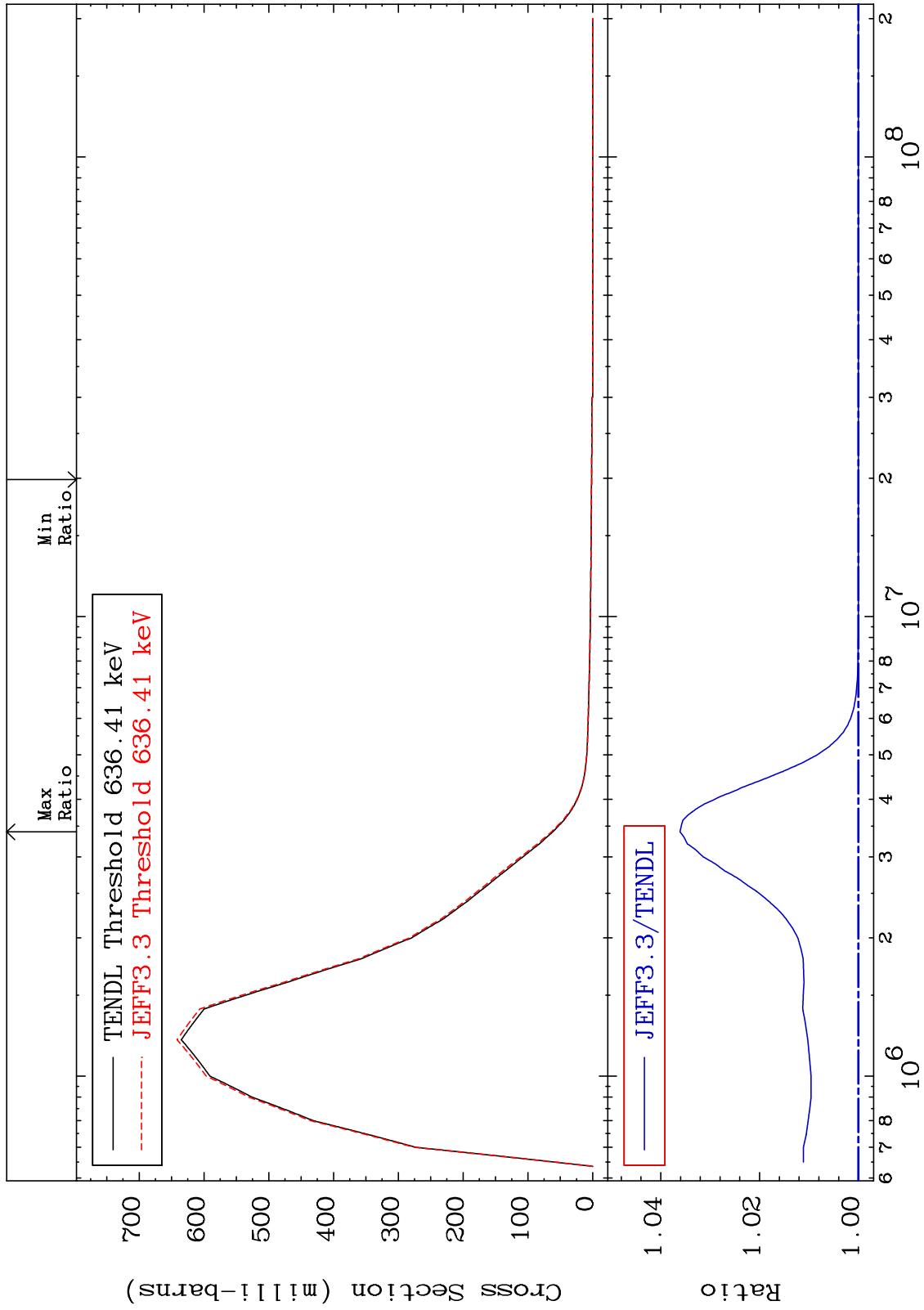
76-0s-188  
-44.59 To 9999. %







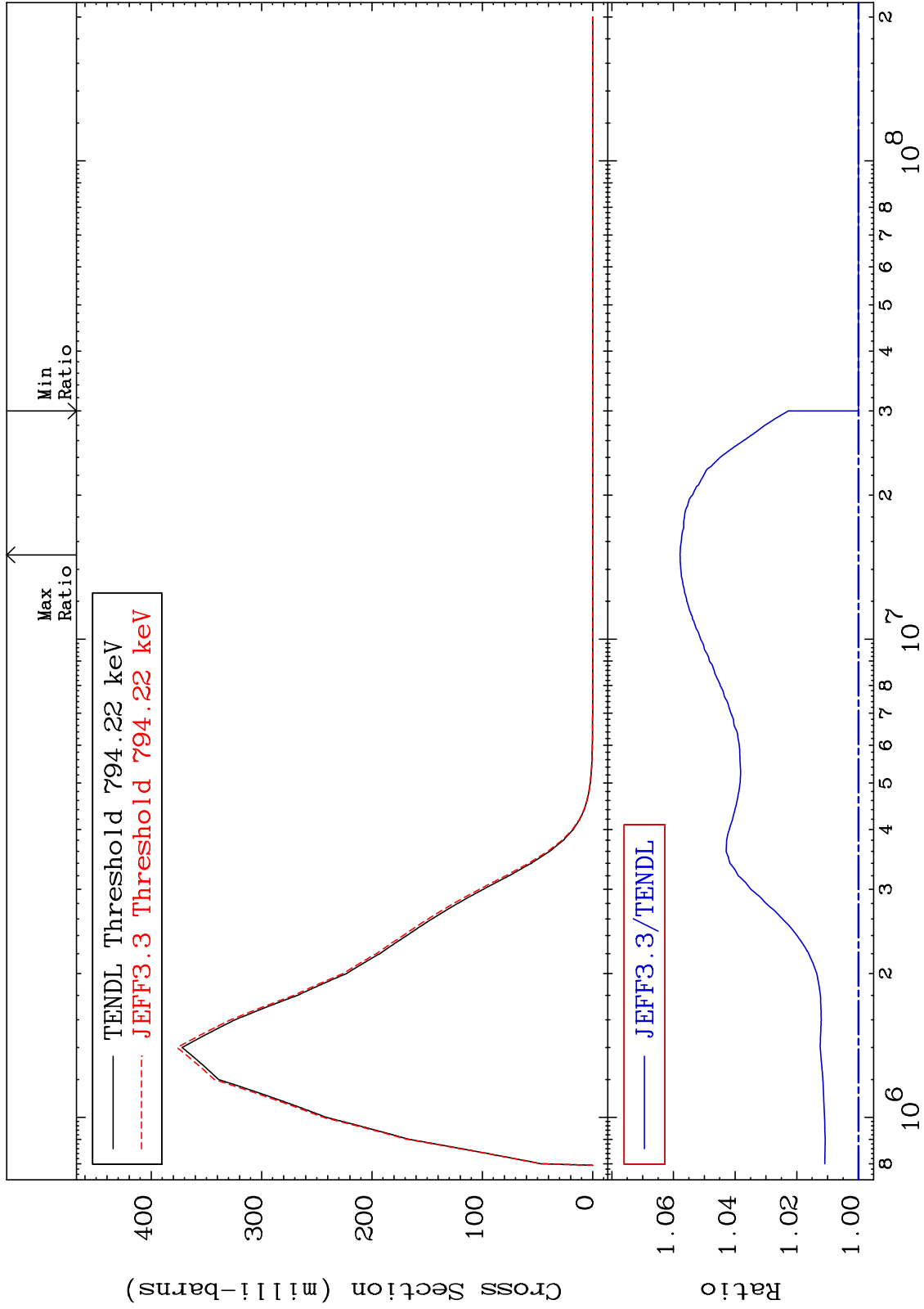
MAT 7637 MT= 53 (n,n') Level Cross Section 76-0s-188 To 3.610 %  
 0.000



MAT 7637

MT= 54 (n, n') Level  
Cross Section

76-0s-188  
0.000 To 5.787 %

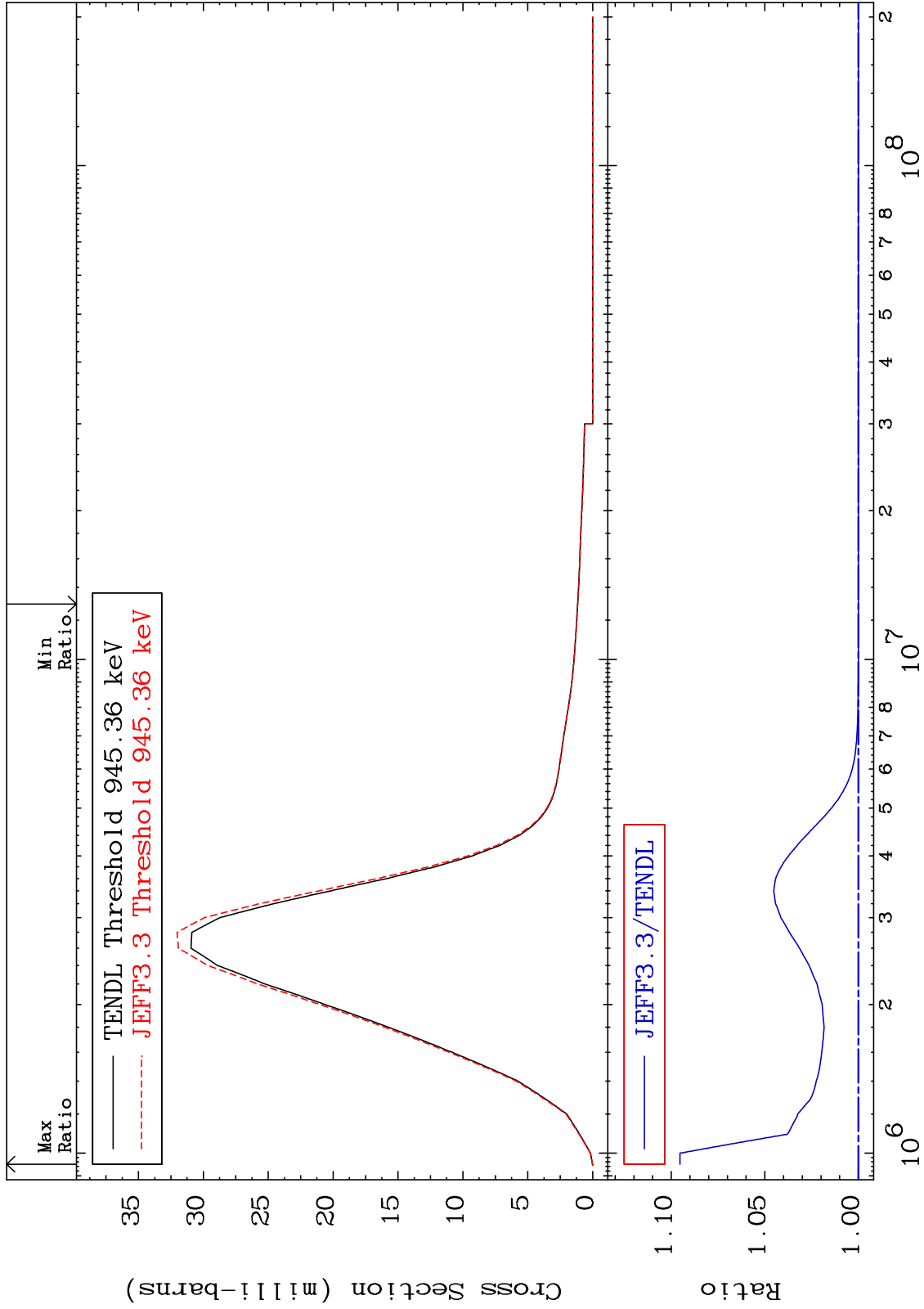




MAT 7637

MT= 55 (n,n') Level  
Cross Section

76-0s-188  
0.000 To 9.532 %



24

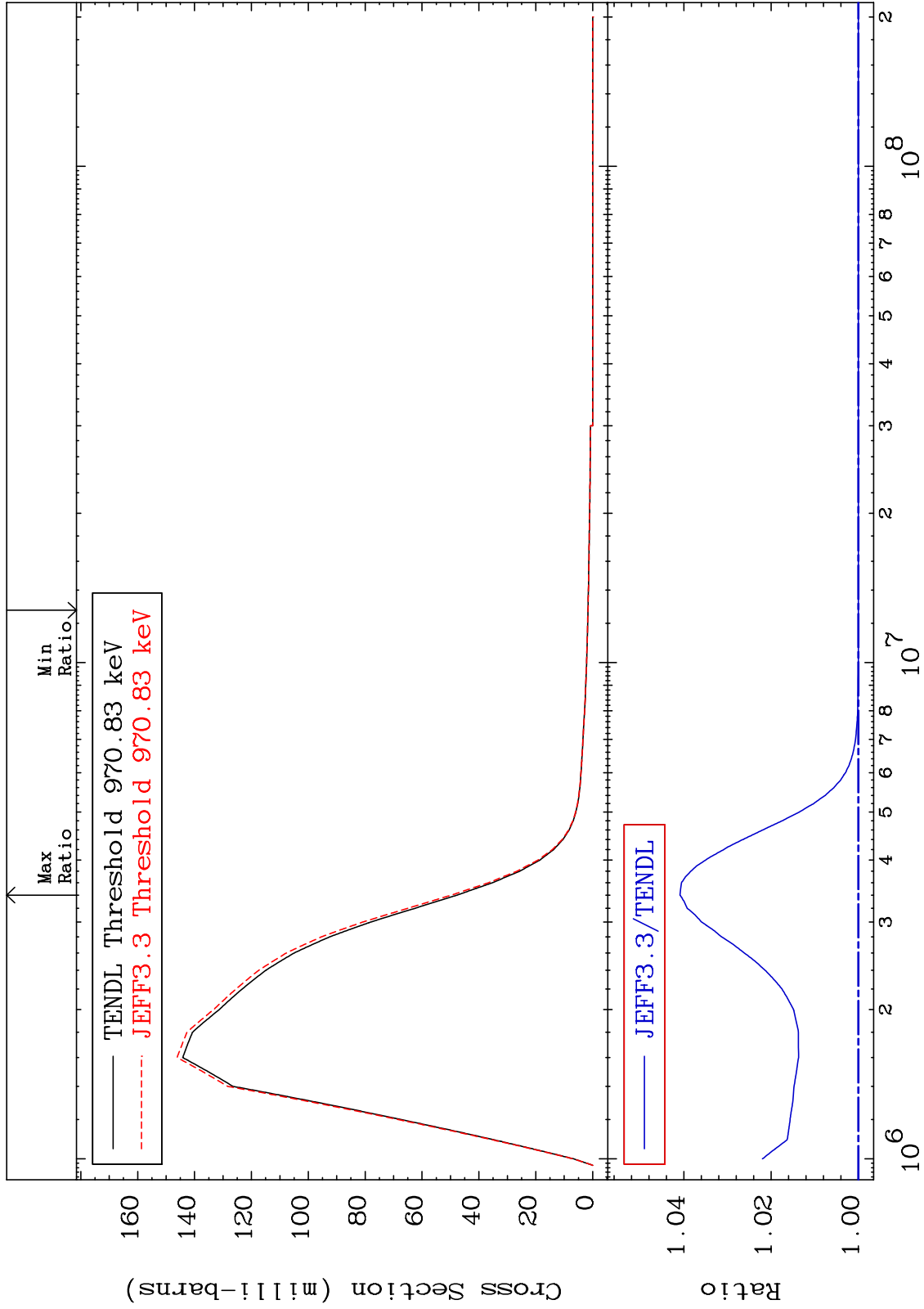
Incident Energy (eV)

76-0s-188

MAT 7637

MT= 56 (n,n') Level  
Cross Section

76-0s-188  
0.000 To 4.088 %



76-0s-188

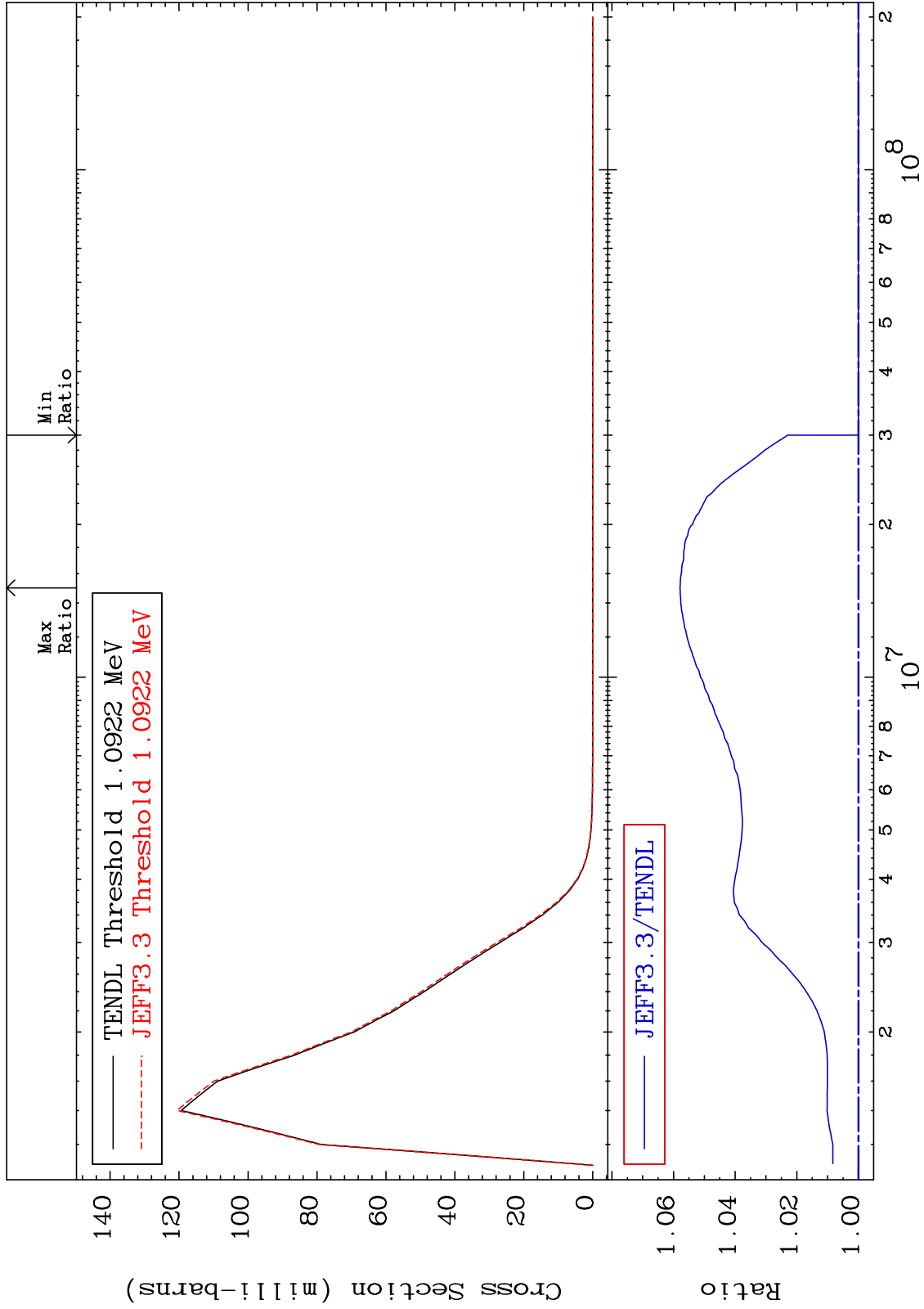
Incident Energy (eV)

25

MAT 7637

MT= 57 (n, n') Level  
Cross Section

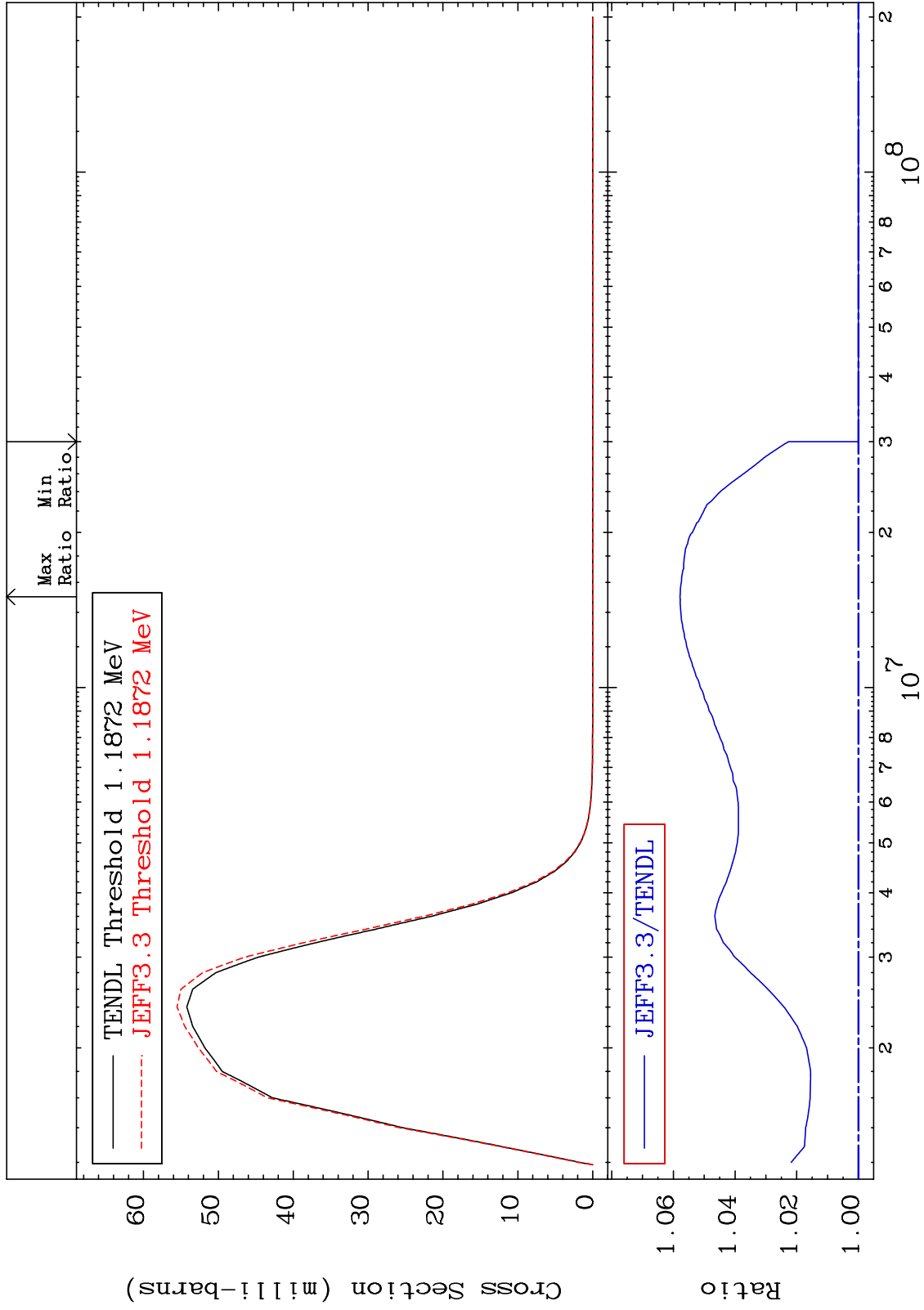
76-0s-188  
0.000 To 5.790 %



MAT 7637

MT= 58 (n, n') Level  
Cross Section

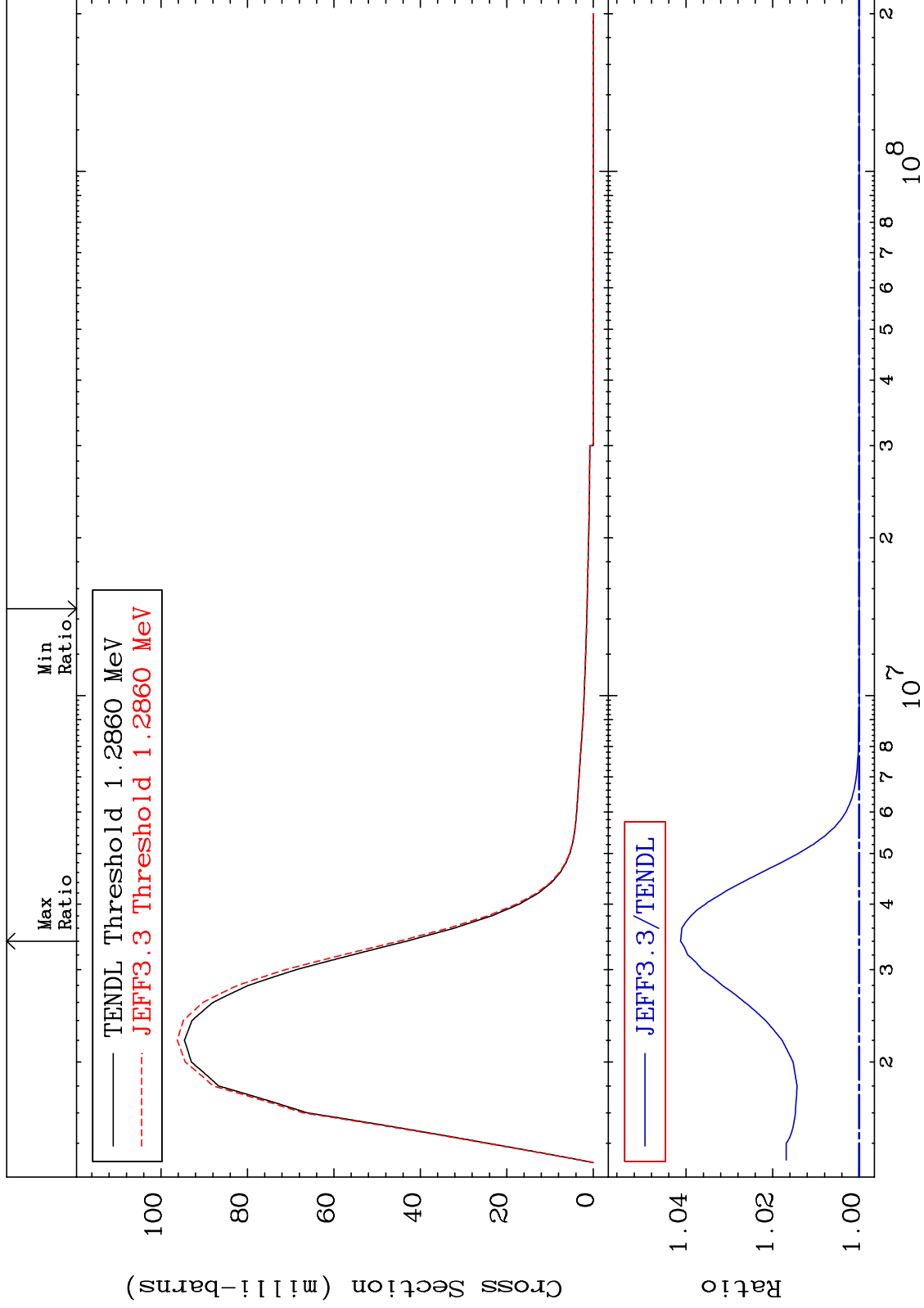
76-0s-188  
To 5.785 %  
0.000



MAT 7637

MT= 59 (n,n') Level  
Cross Section

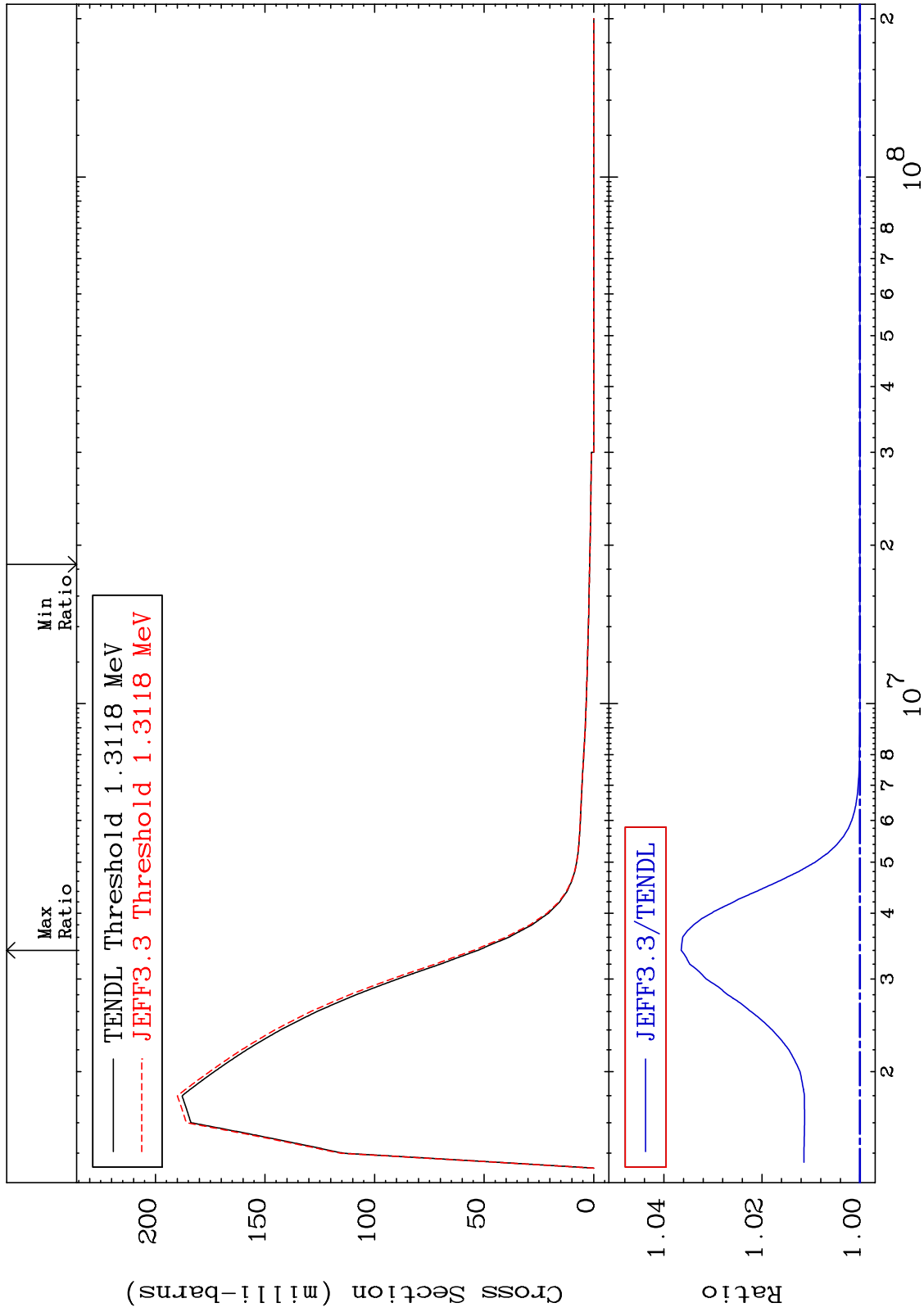
76-0s-188  
0.000 To 4.126 %



MAT 7637

MT= 60 (n,n') Level  
Cross Section

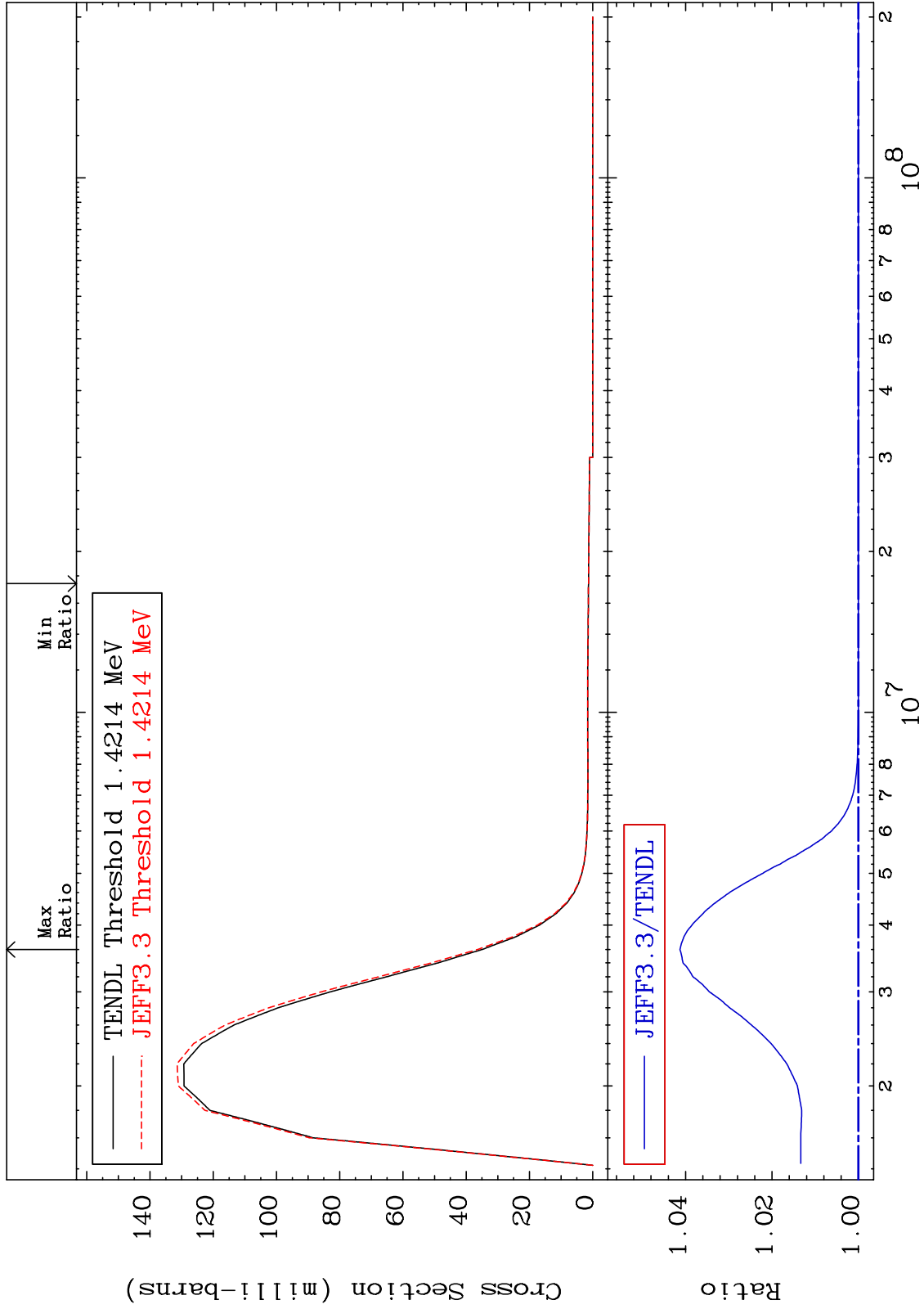
76-0s-188  
0.000 To 3.648 %

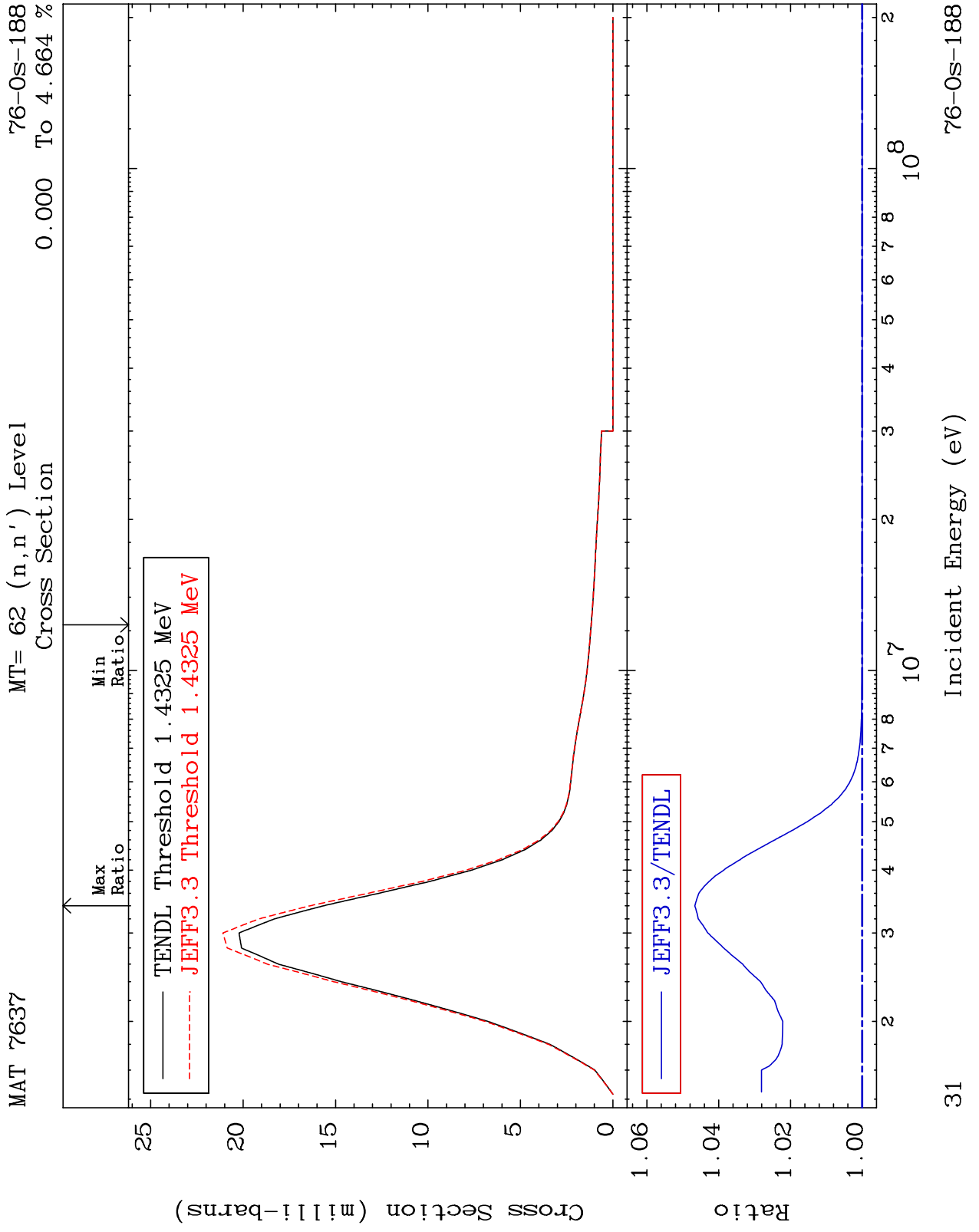


MAT 7637

MT= 61 (n,n') Level  
Cross Section

76-0s-188  
0.000 To 4.129 %



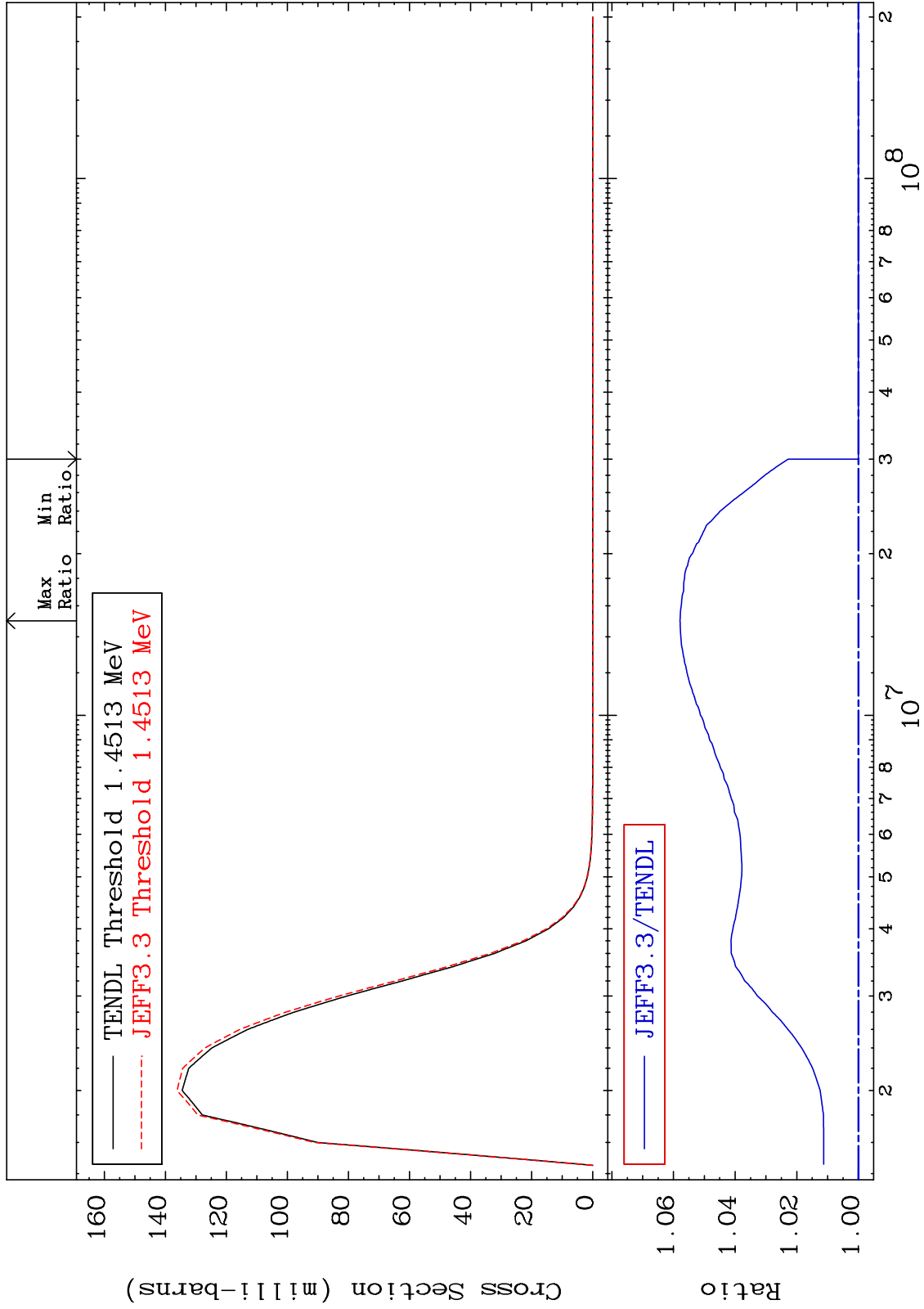




MAT 7637

MT= 63 (n, n') Level  
Cross Section

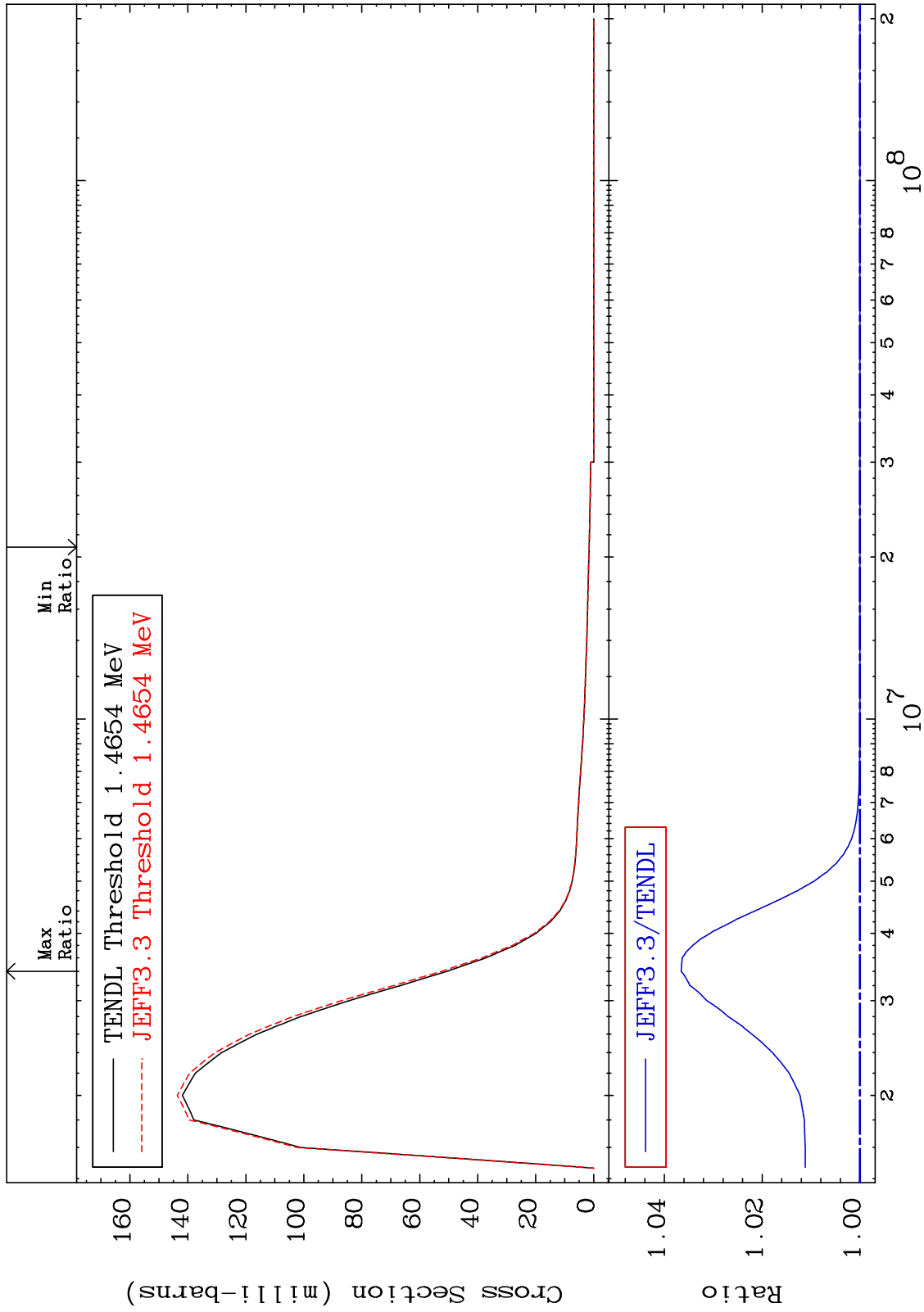
76-0s-188  
0.000 To 5.789 %



MAT 7637

MT= 64 (n,n') Level  
Cross Section

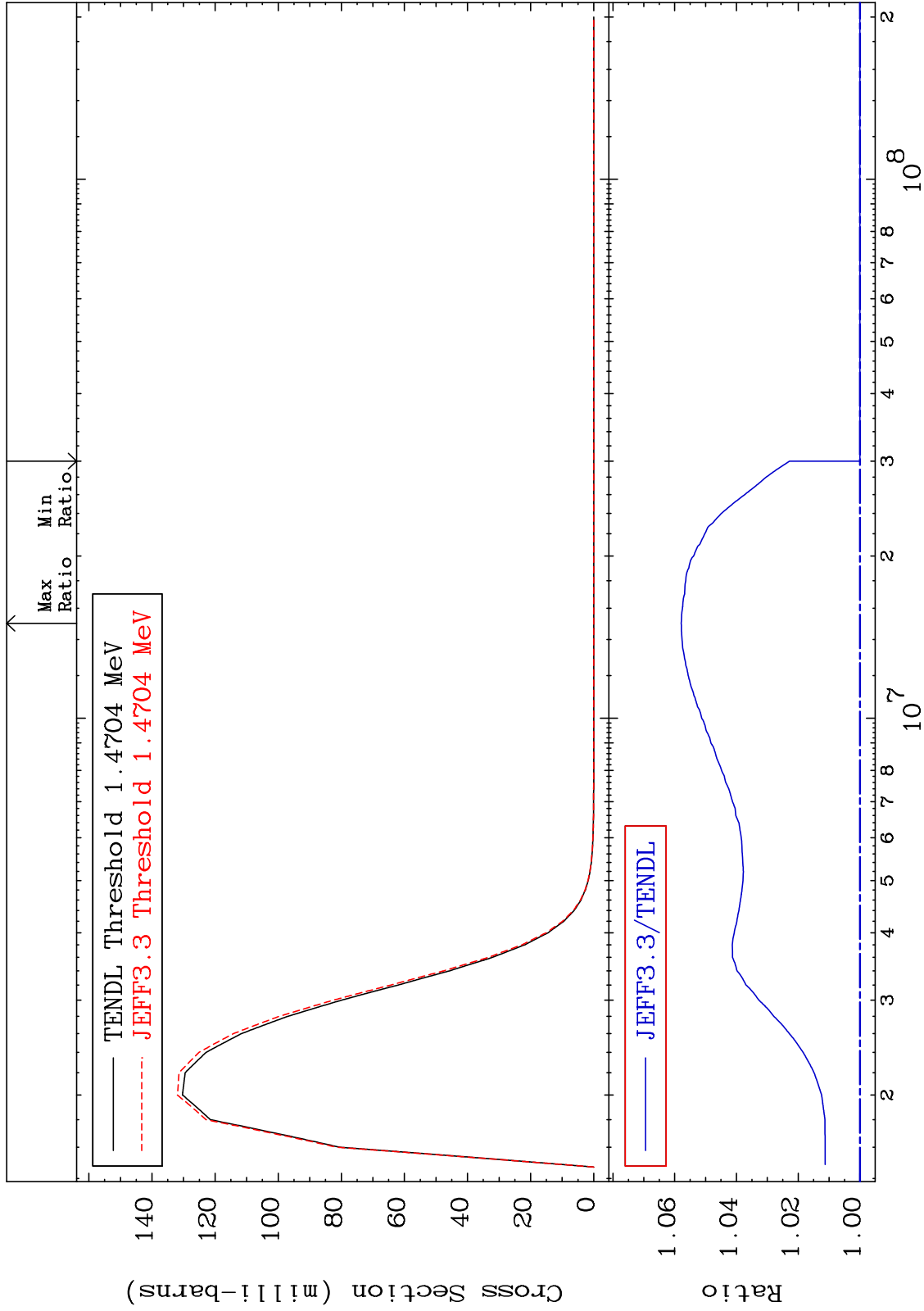
76-0s-188  
0.000 To 3.656 %



MAT 7637

MT= 65 (n,n') Level  
Cross Section

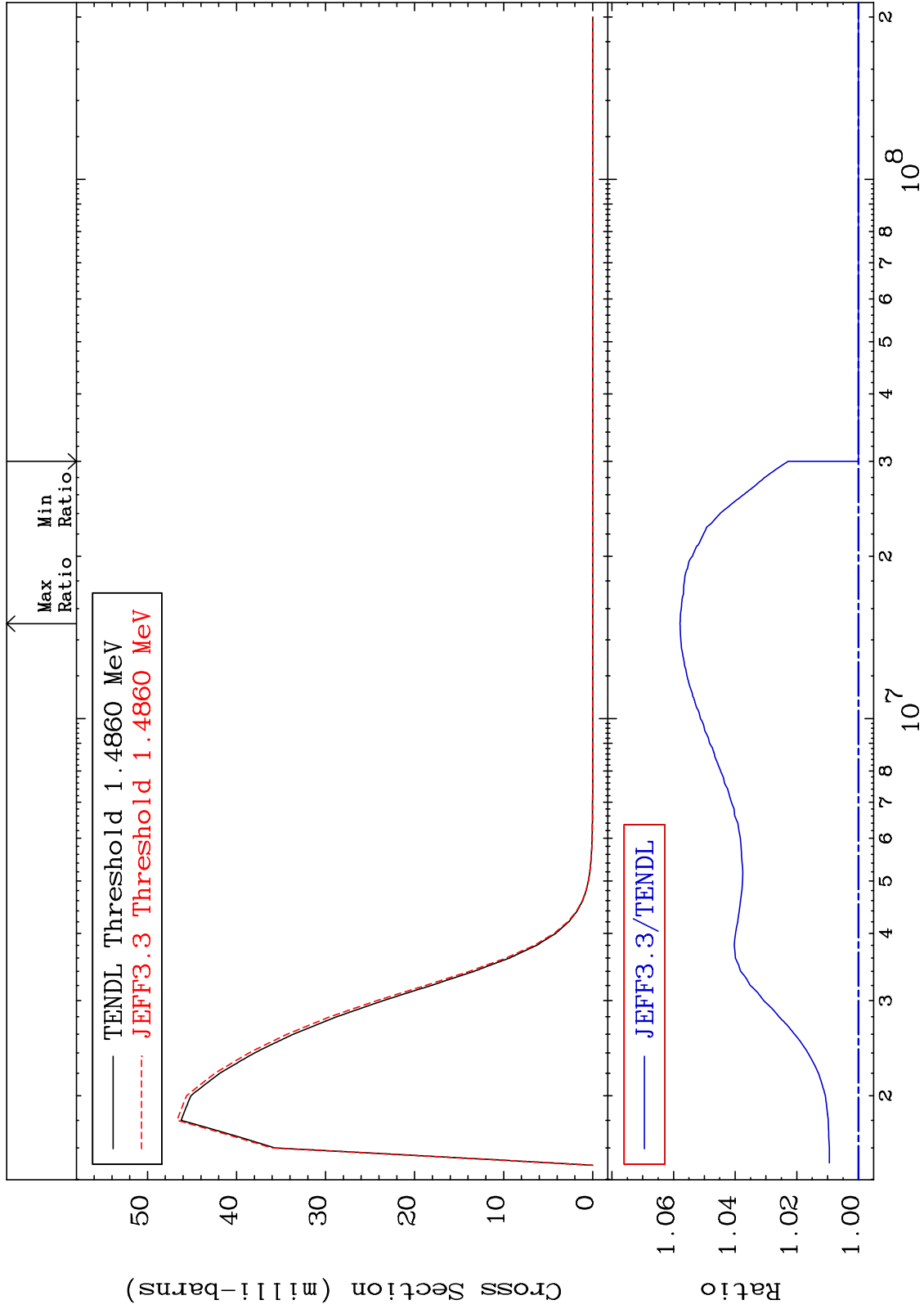
76-0s-188  
0.000 To 5.789 %



MAT 7637

MT= 66 (n,n') Level  
Cross Section

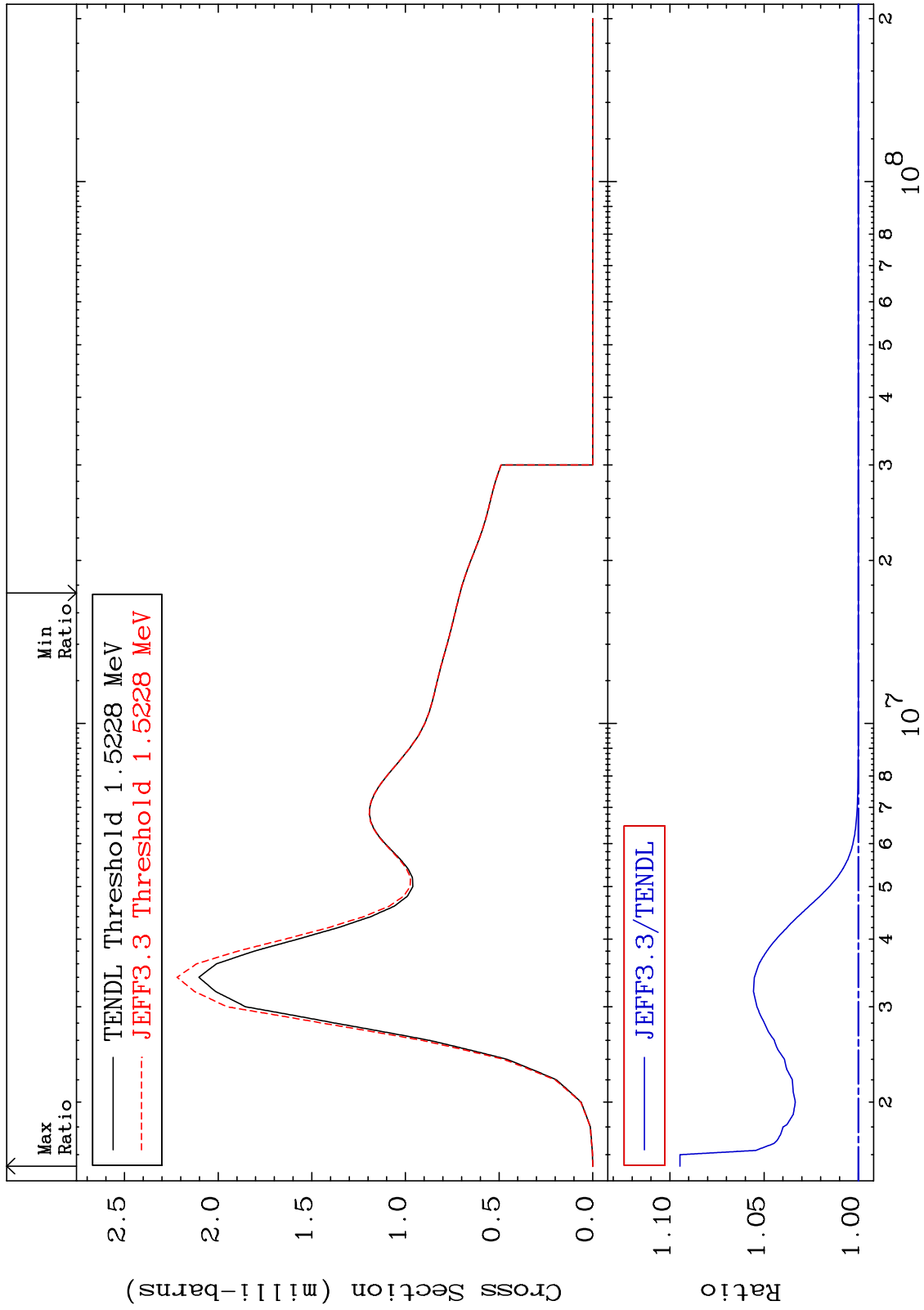
76-0s-188  
0.000 To 5.790 %



MAT 7637

MT= 67 (n,n') Level  
Cross Section

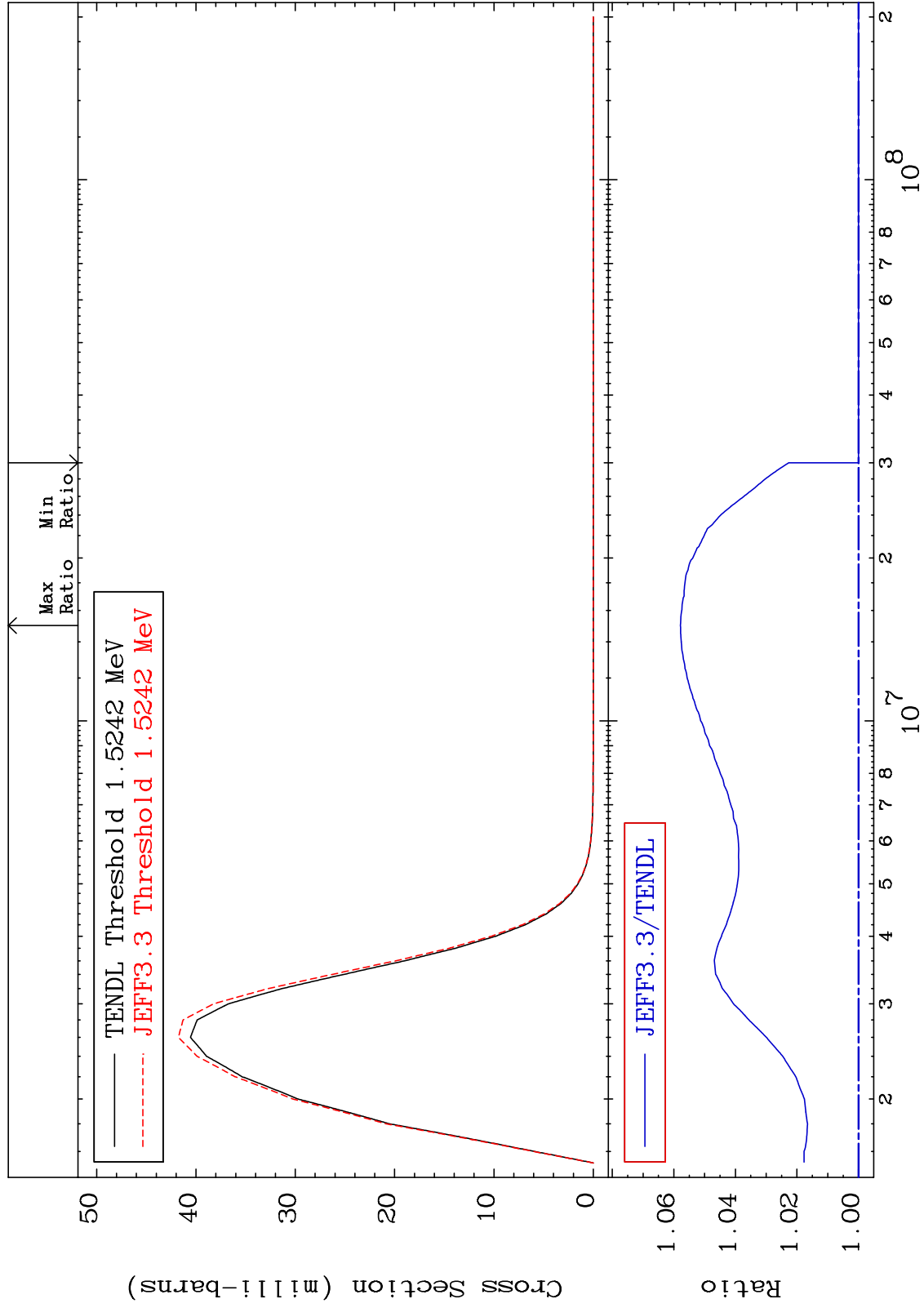
76-0s-188  
0.000 To 9.461 %



MAT 7637

MT= 68 (n,n') Level  
Cross Section

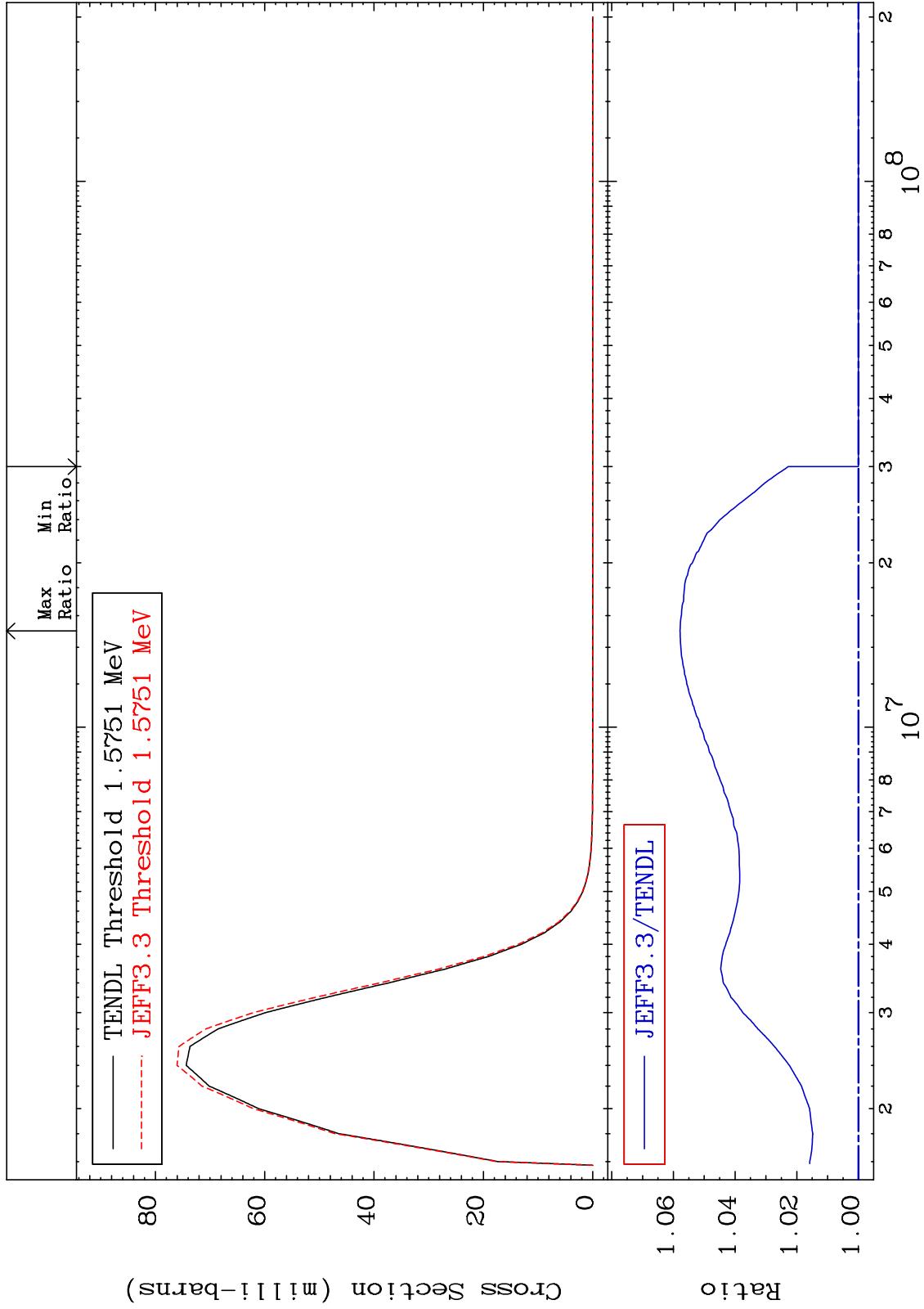
76-0s-188  
0.000 To 5.785 %



MAT 7637

MT= 69 (n,n') Level  
Cross Section

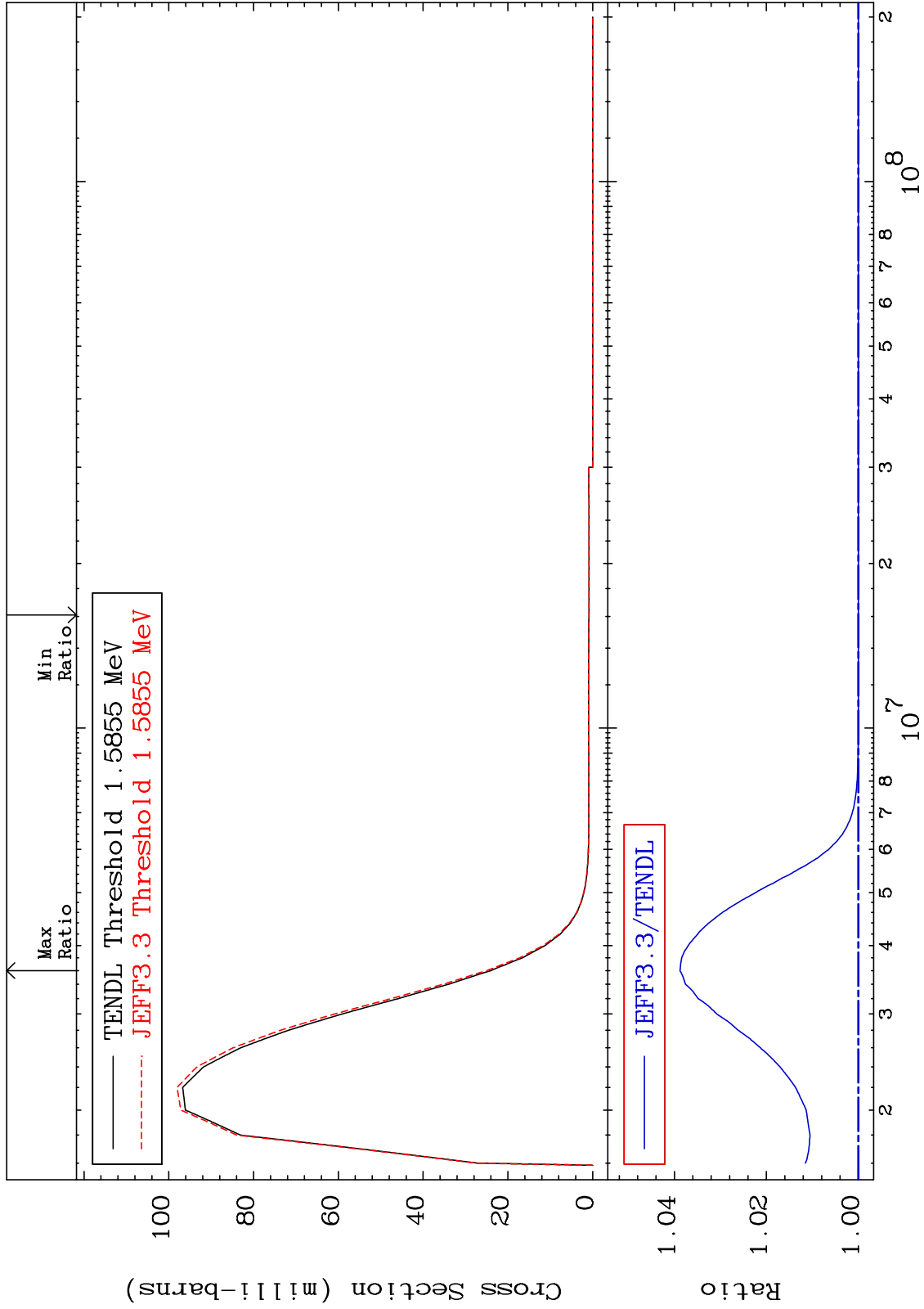
76-0s-188  
0.000 To 5.786 %



MAT 7637

MT= 70 (n,n') Level  
Cross Section

76-0s-188  
0.000 To 3.878 %

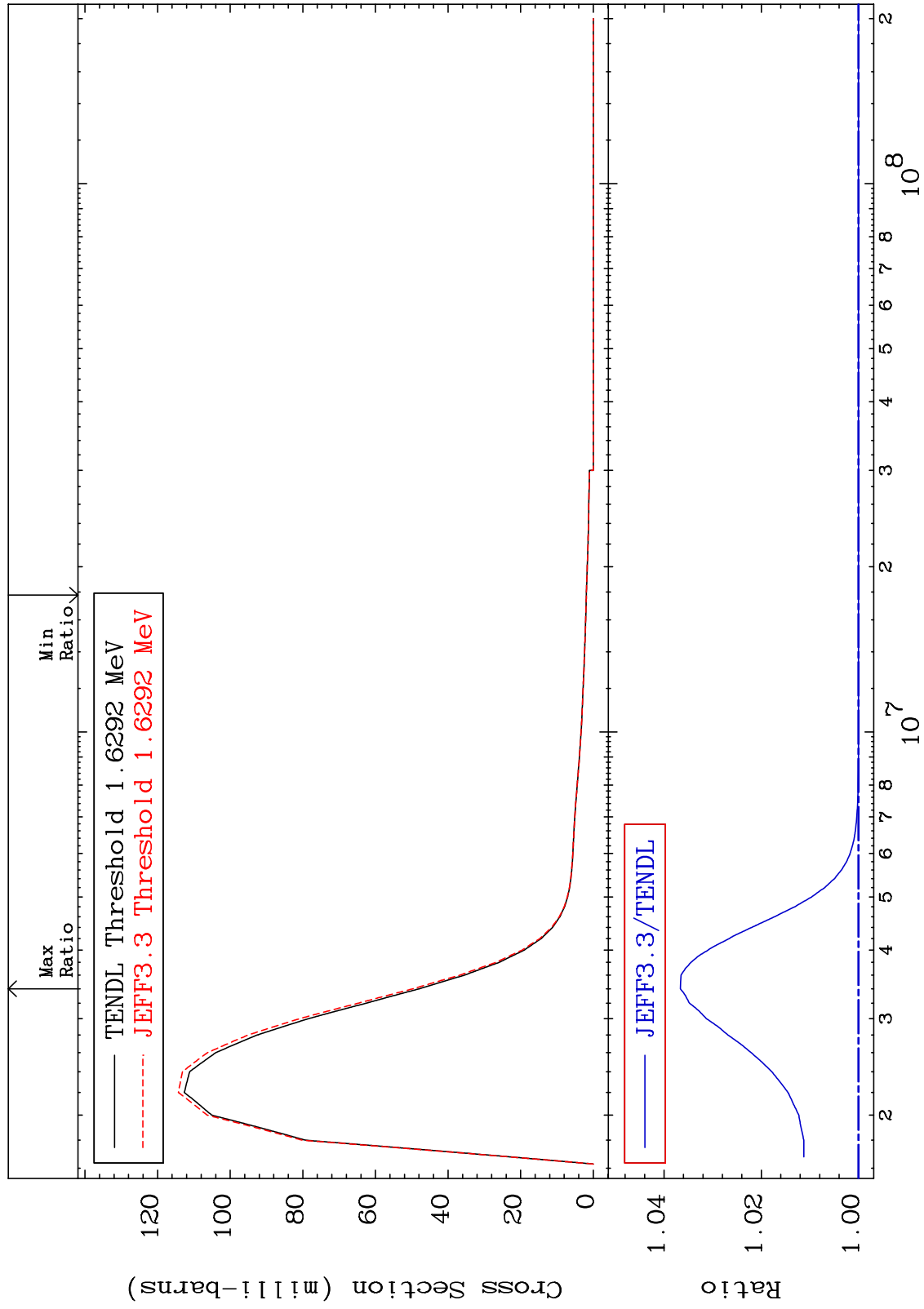




MAT 7637

MT= 71 (n,n') Level  
Cross Section

76-0s-188  
0.000 To 3.662 %



40

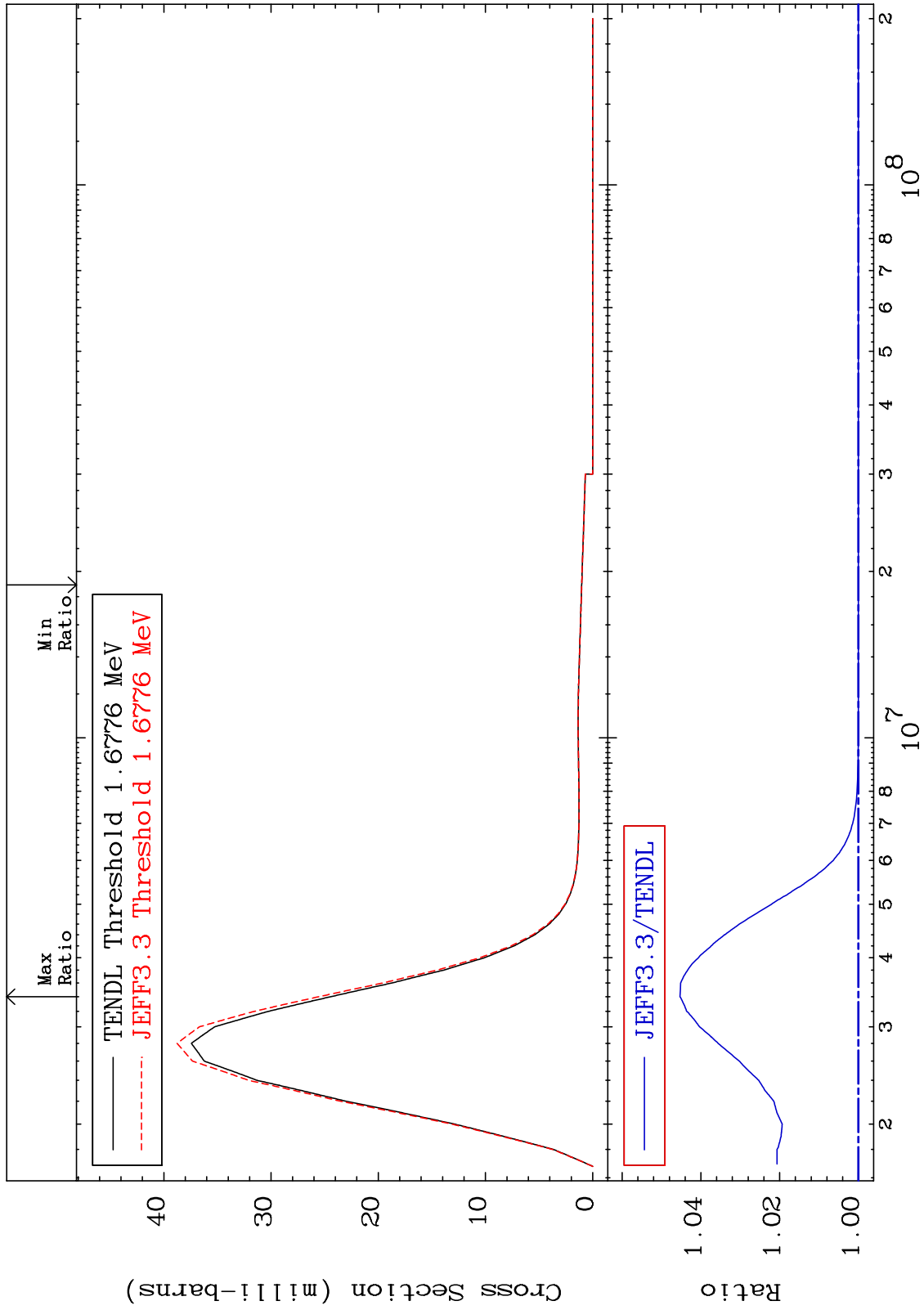
Incident Energy (eV)

76-0s-188

MAT 7637

MT= 72 (n,n') Level  
Cross Section

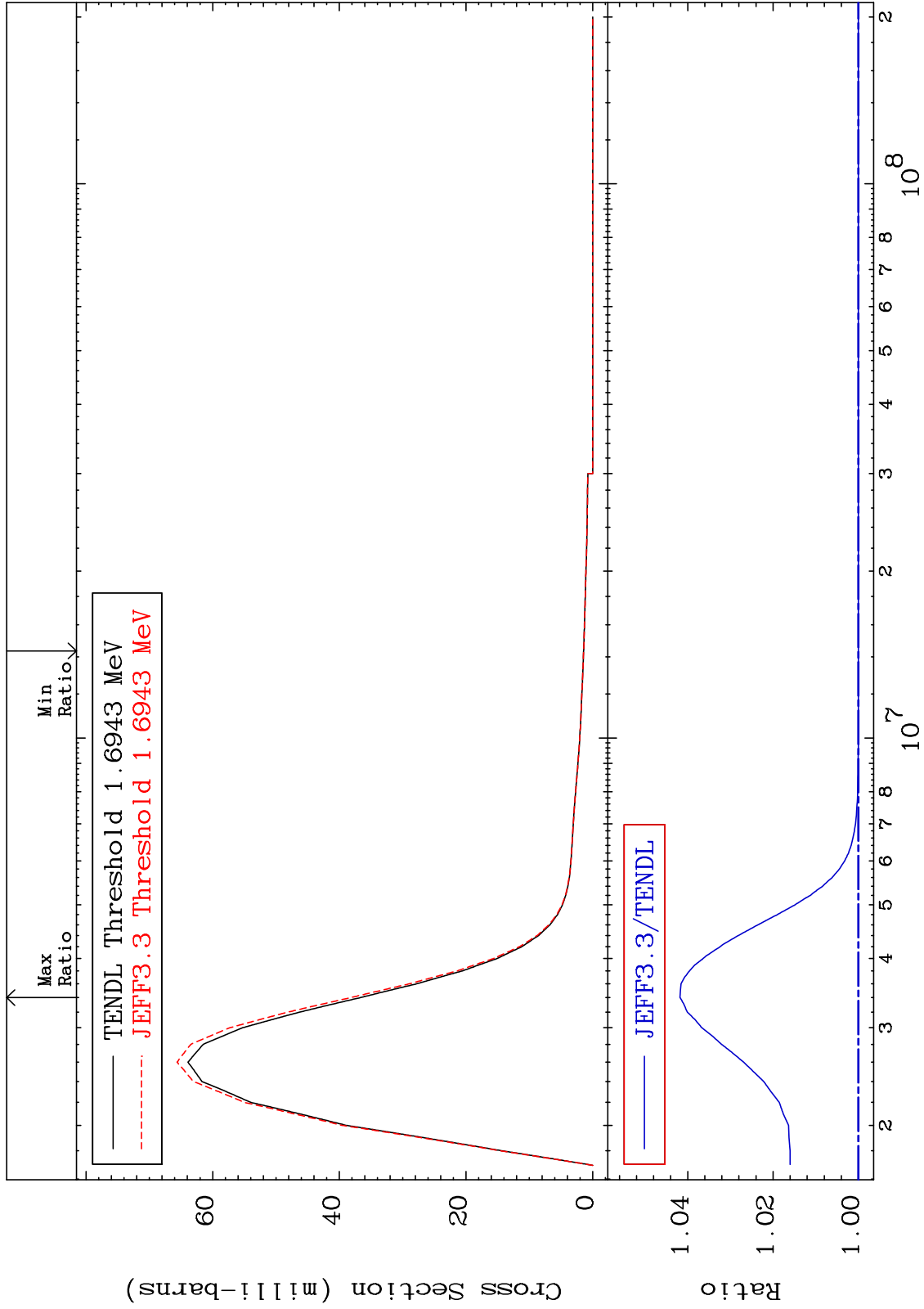
76-0s-188  
0.000 To 4.530 %



MAT 7637

MT= 73 (n,n') Level  
Cross Section

76-0s-188  
0.000 To 4.180 %



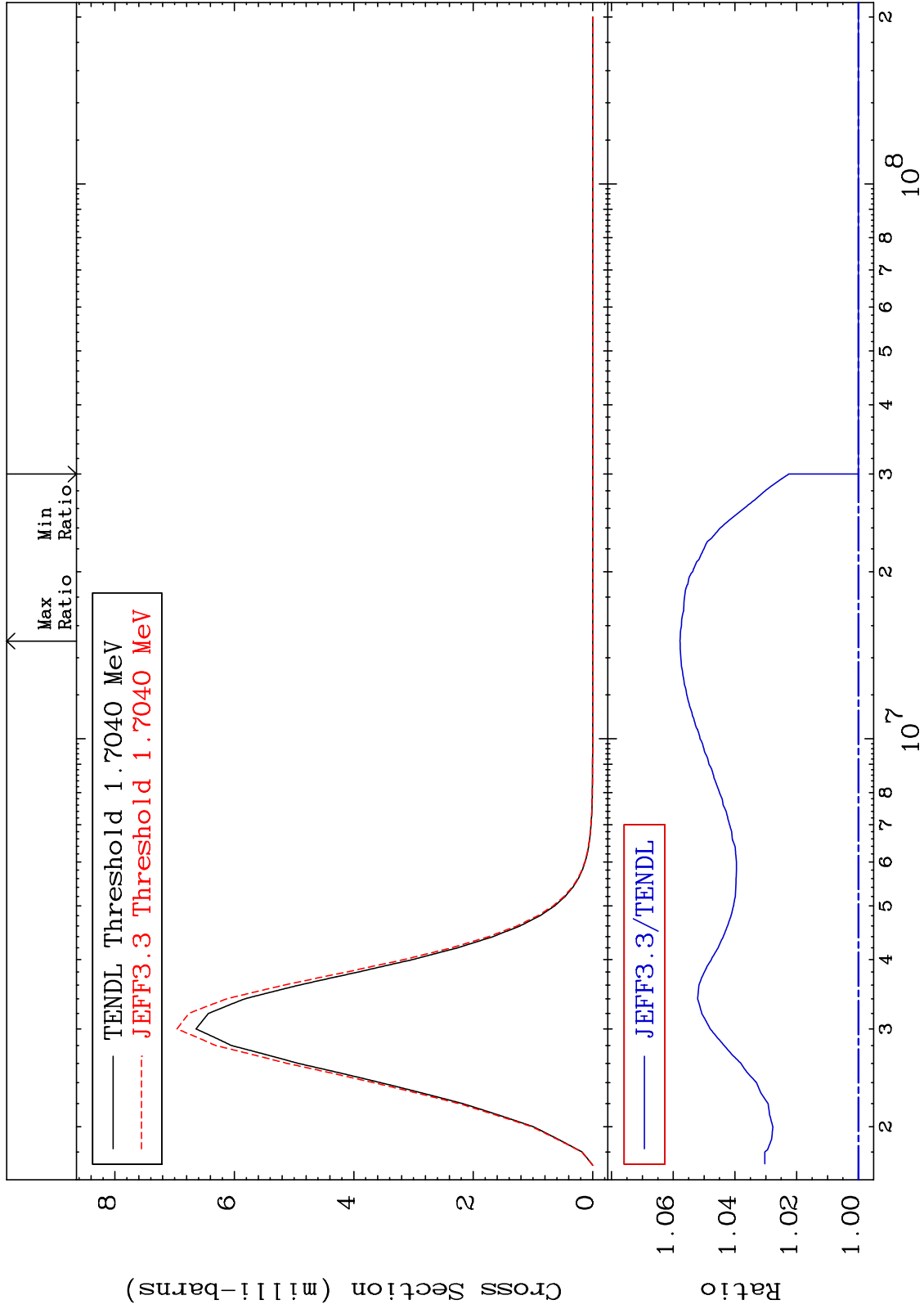
42

76-0s-188

MAT 7637

MT= 74 (n,n') Level  
Cross Section

76-0s-188  
0.000 To 5.780 %



43

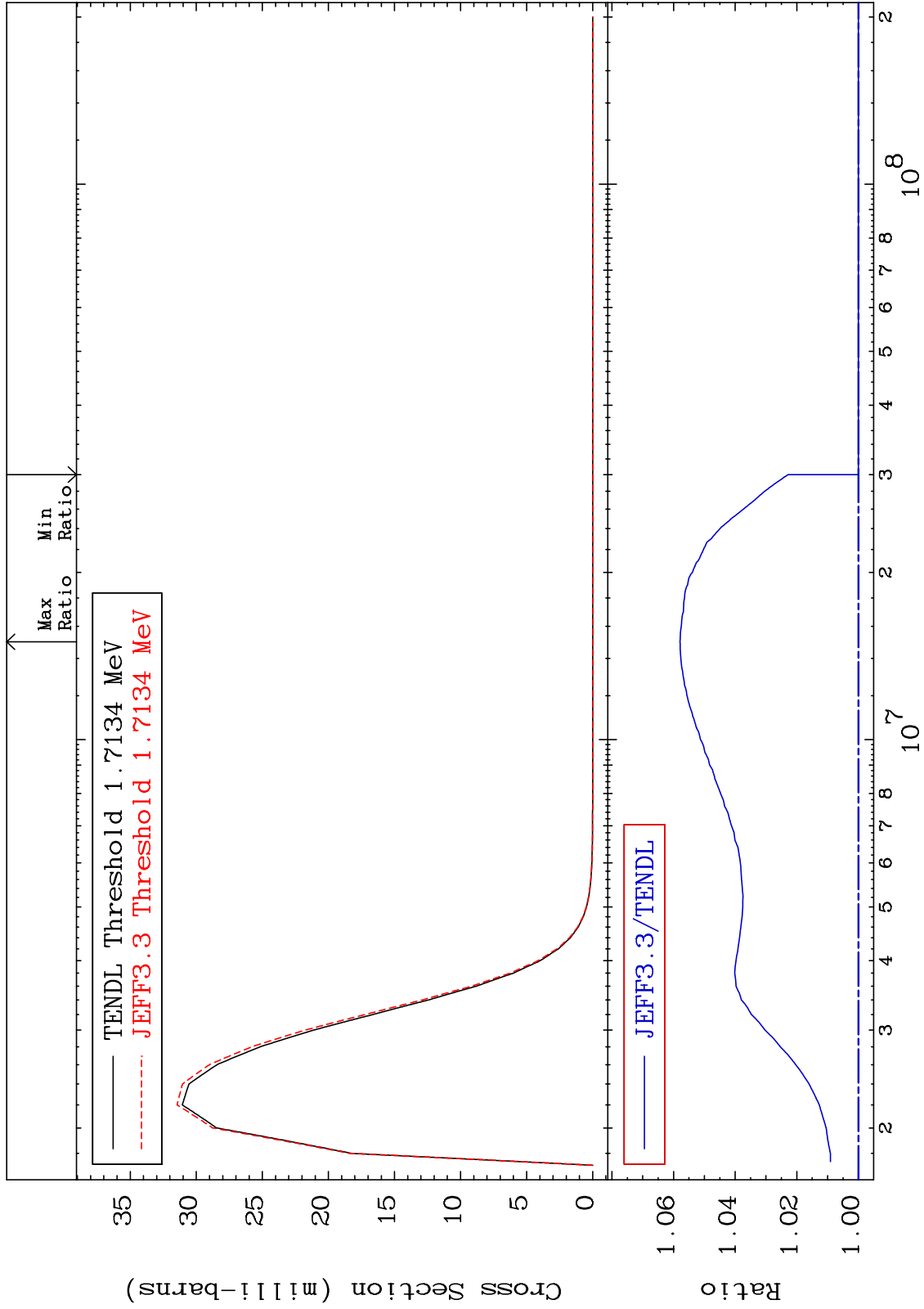
Incident Energy (eV)

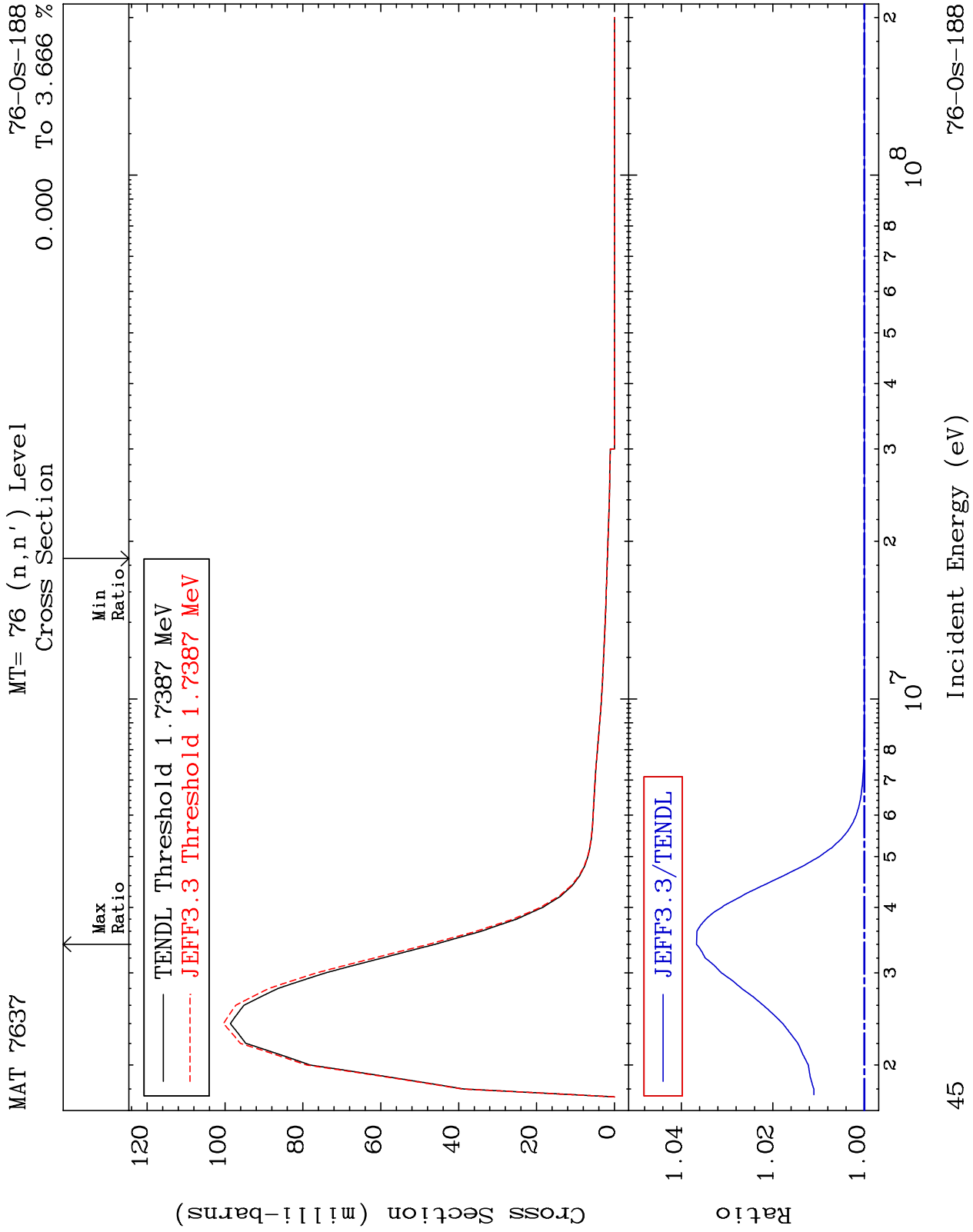
76-0s-188

MAT 7637

MT= 75 (n,n') Level  
Cross Section

76-0s-188  
0.000 To 5.790 %

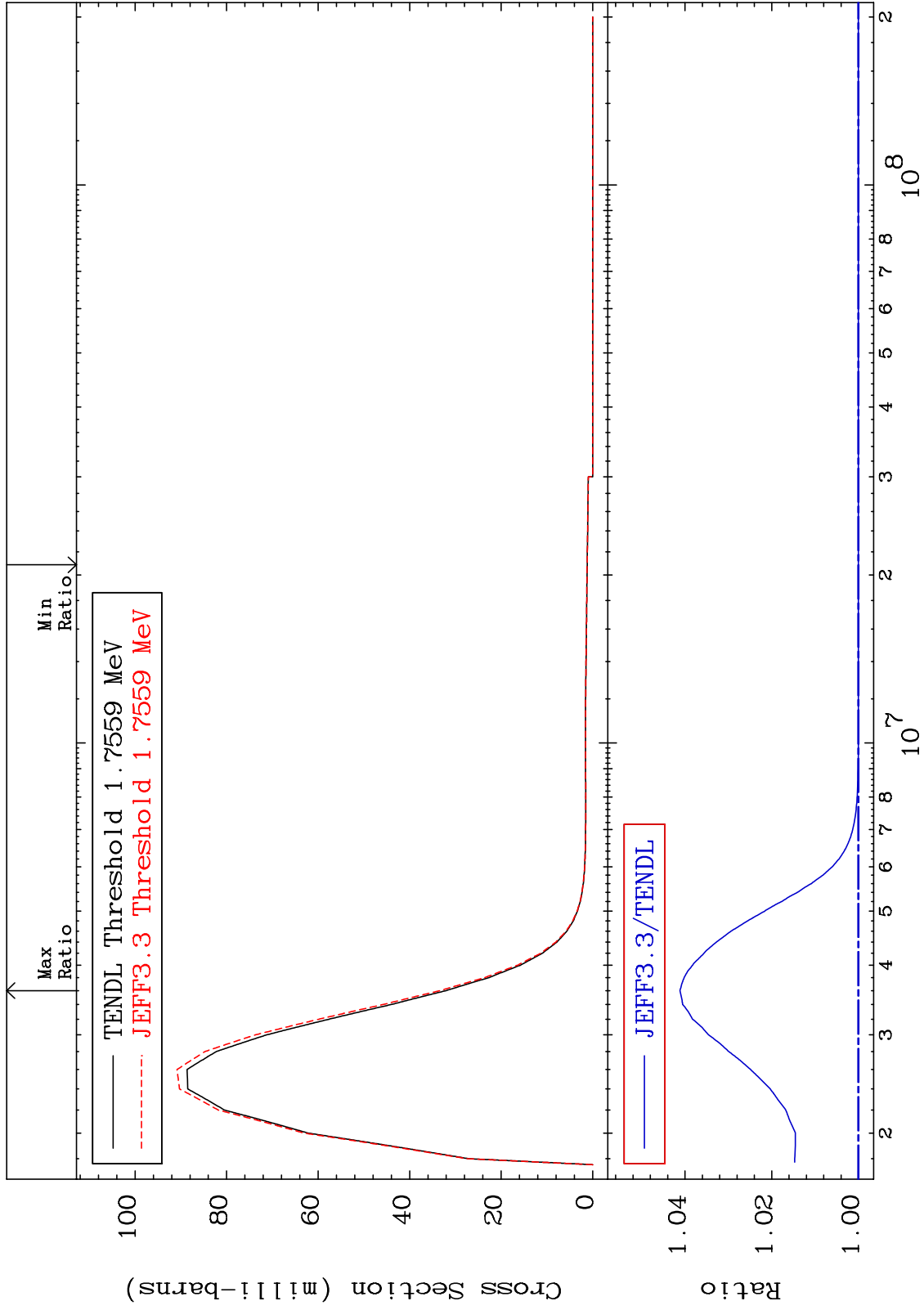




MAT 7637

MT= 77 (n,n') Level  
Cross Section

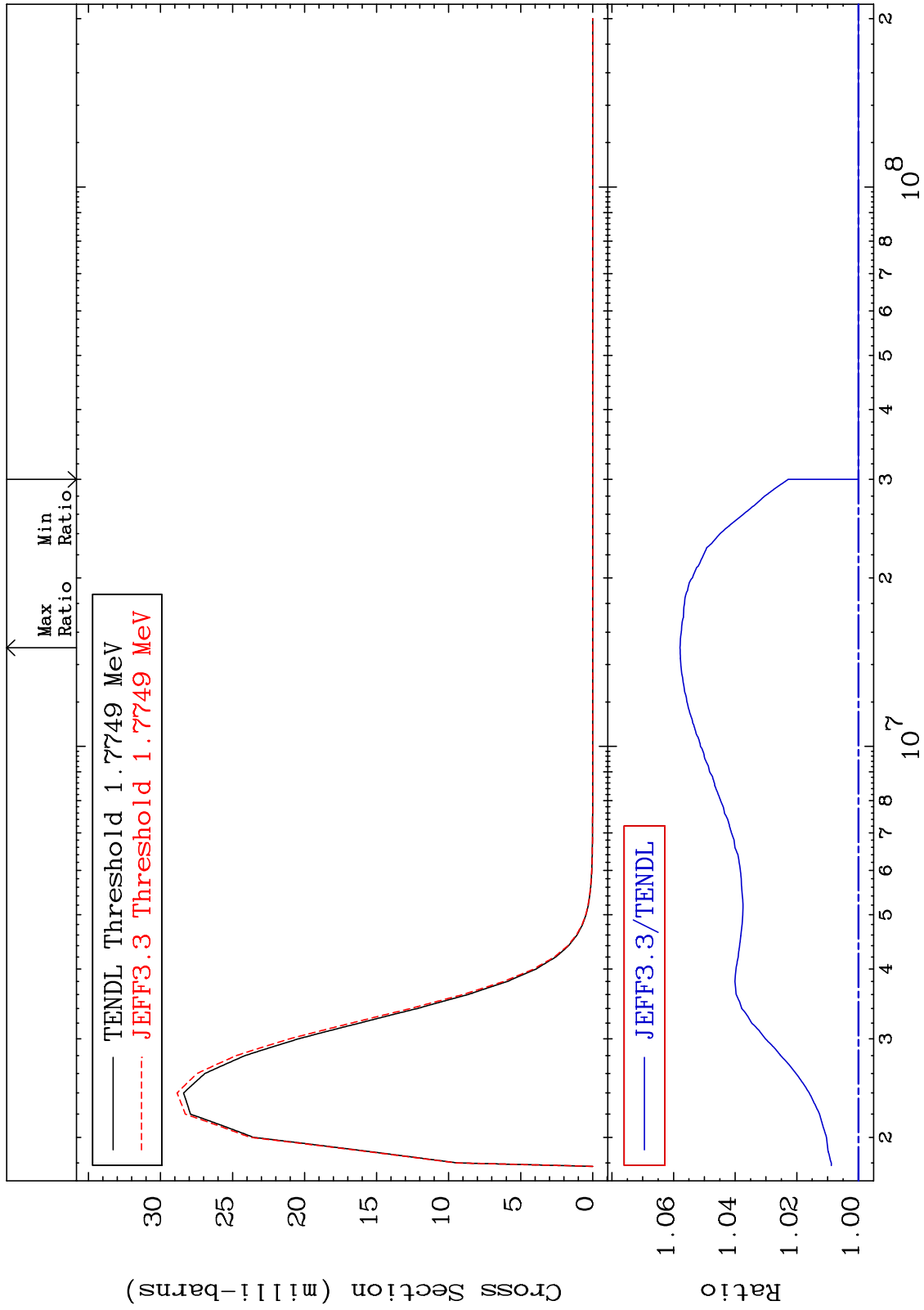
76-0s-188  
0.000 To 4.116 %



MAT 7637

MT= 78 (n,n') Level  
Cross Section

0.000 To 5.790 %  
76-0s-188



47

Incident Energy (eV)

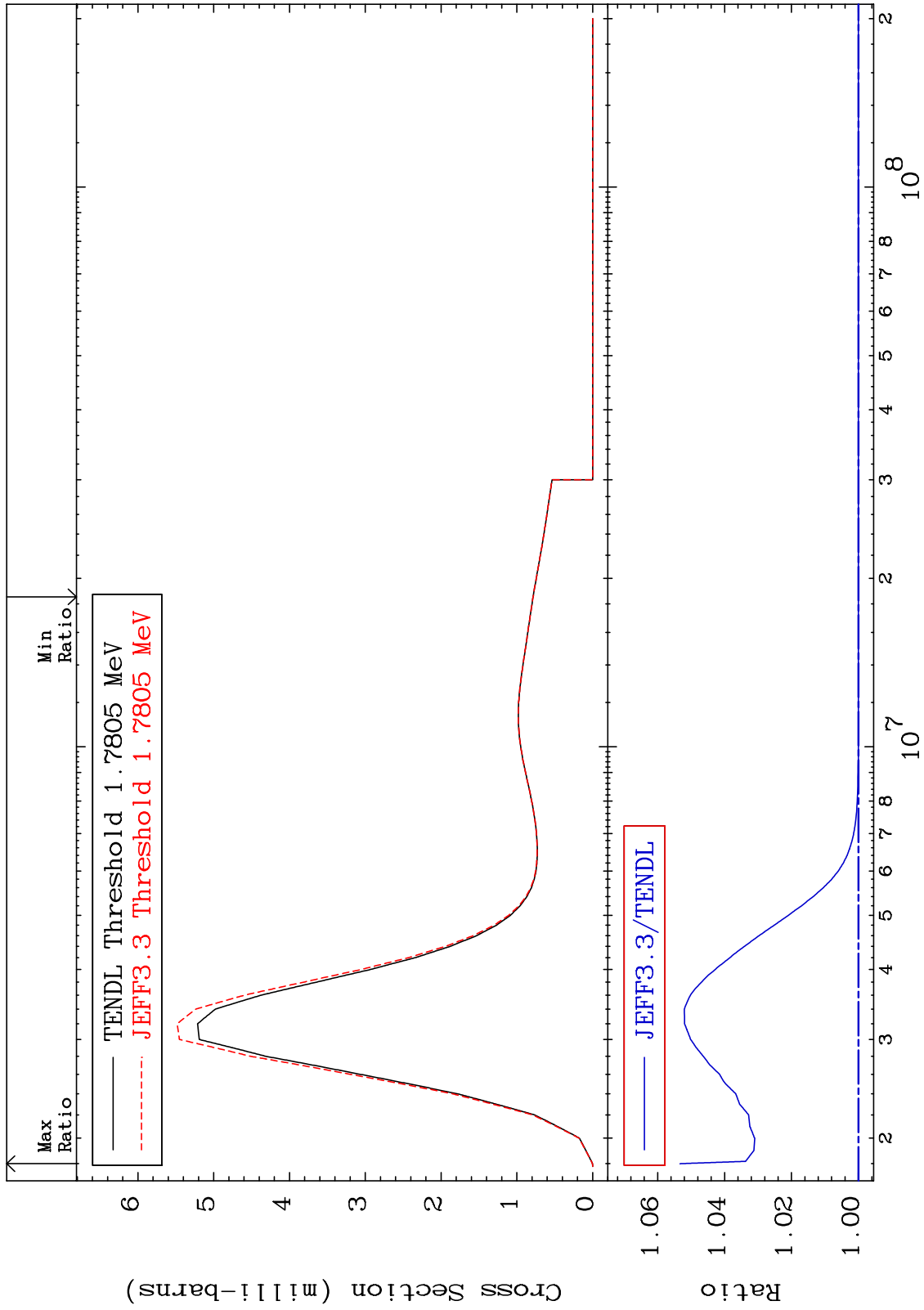
76-0s-188



MAT 7637

MT= 79 (n,n') Level  
Cross Section

0.000 To 5.331 %  
76-0s-188



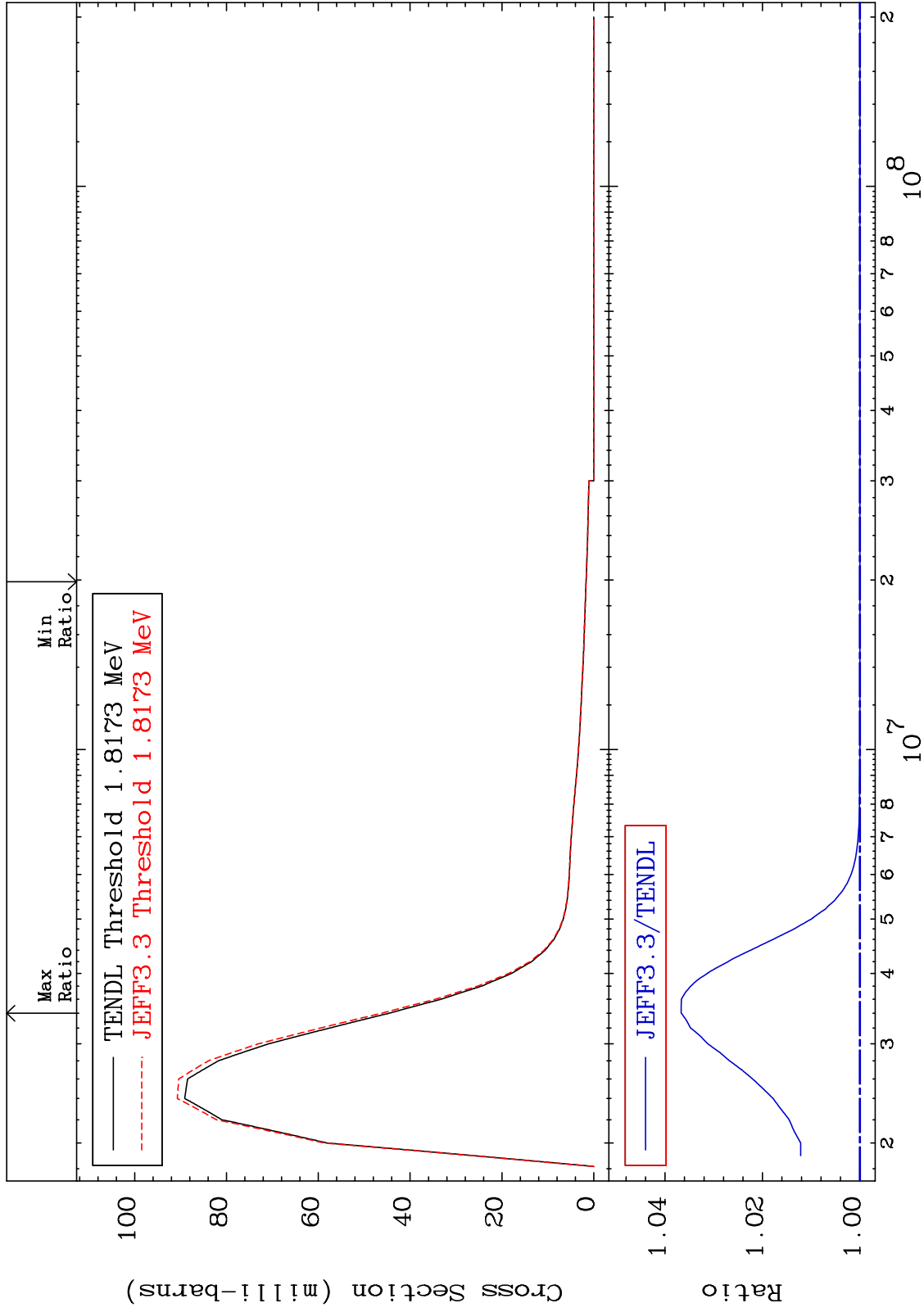
48

76-0s-188

MAT 7637

MT= 80 (n, n') Level  
Cross Section

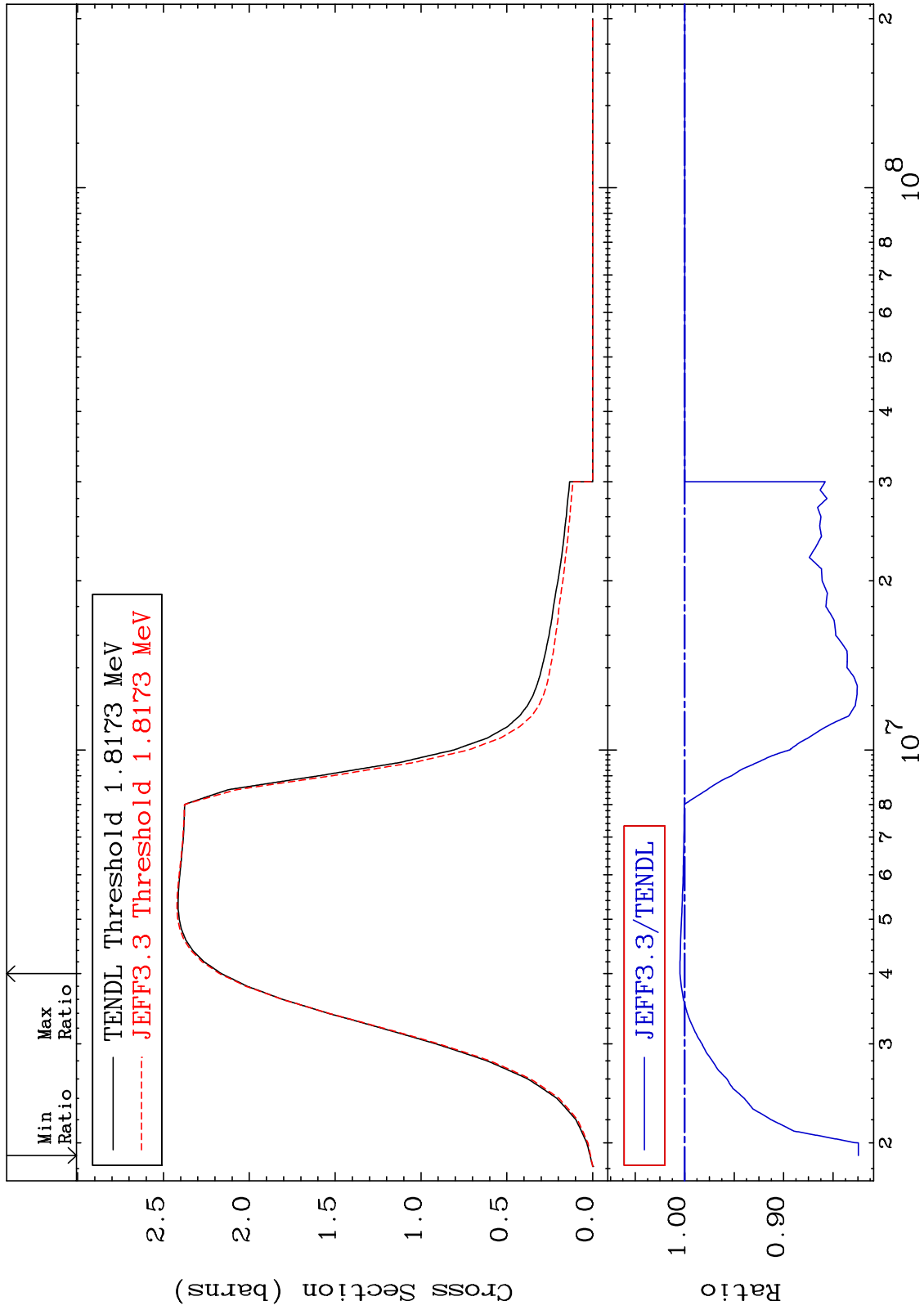
76-0s-188  
0.000 To 3.667 %



MAT 7637

(n, n') Continuum  
Cross Section

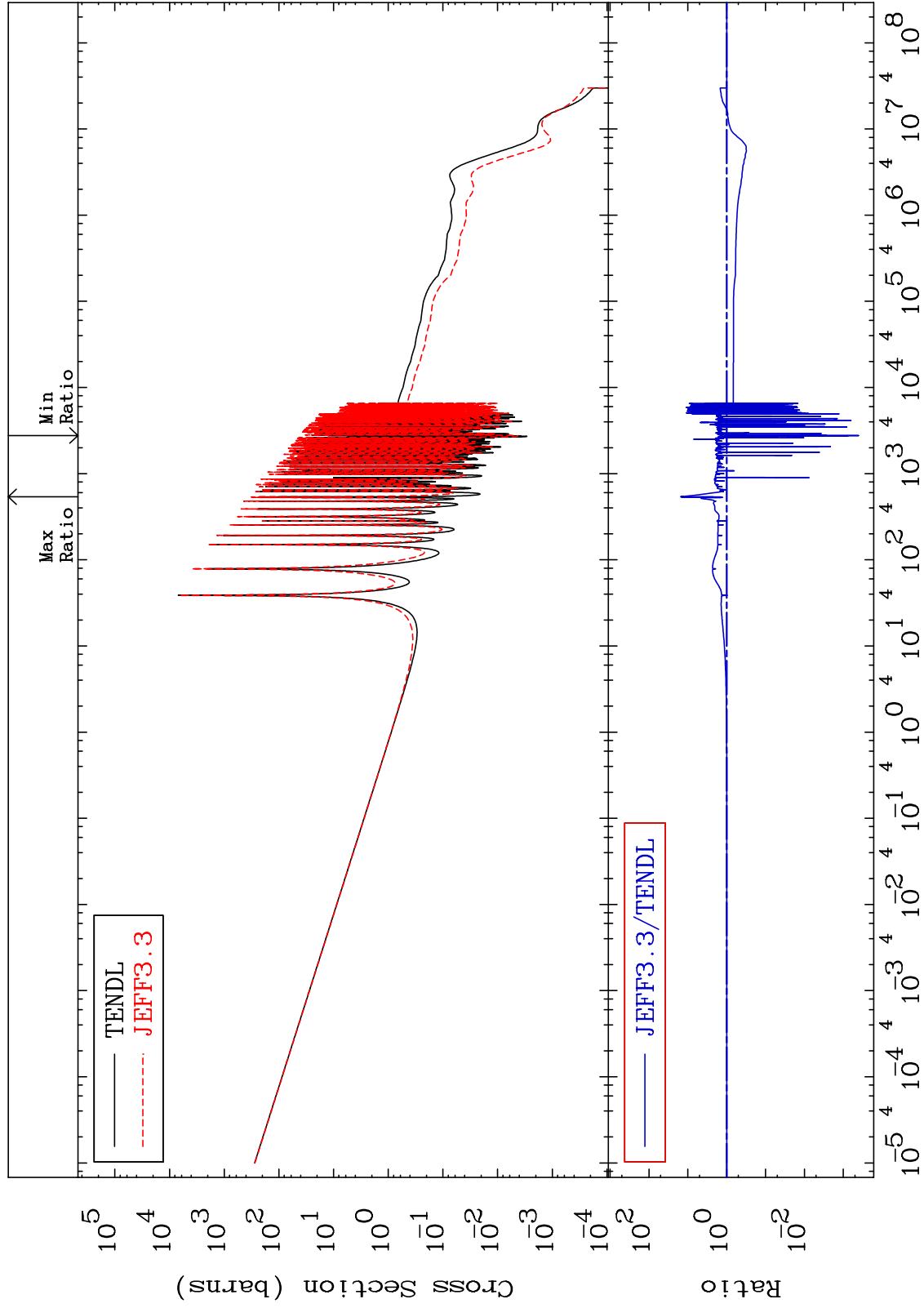
76-0s-188  
-17.56 To 0.473 %



MAT 7637

(n,  $\gamma$ )  
Cross Section

76-0s-188  
-99.96 To 1445. %



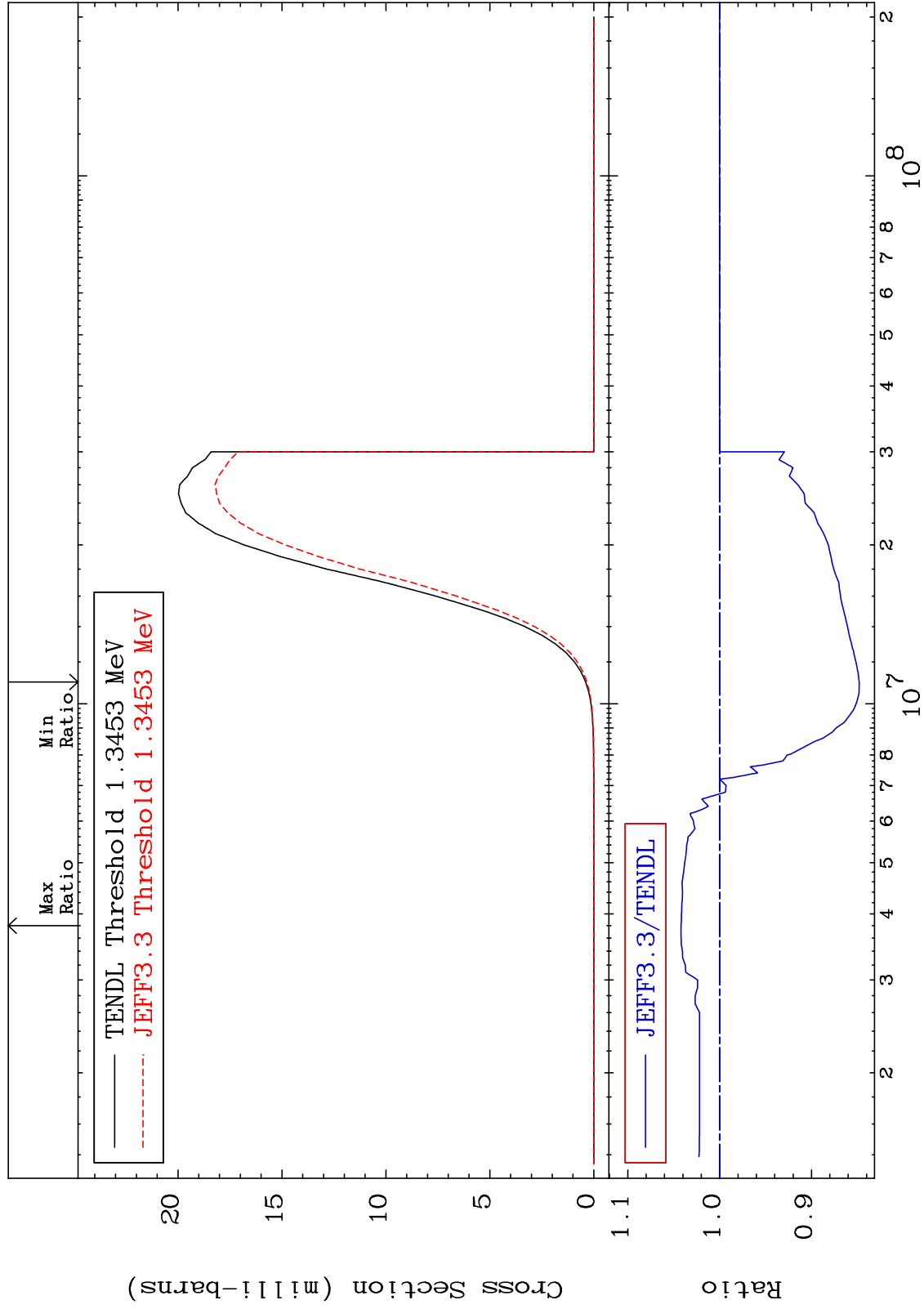
MAT 7637

(n,p)

76-0s-188

Cross Section

-15.20 To 4.200 %



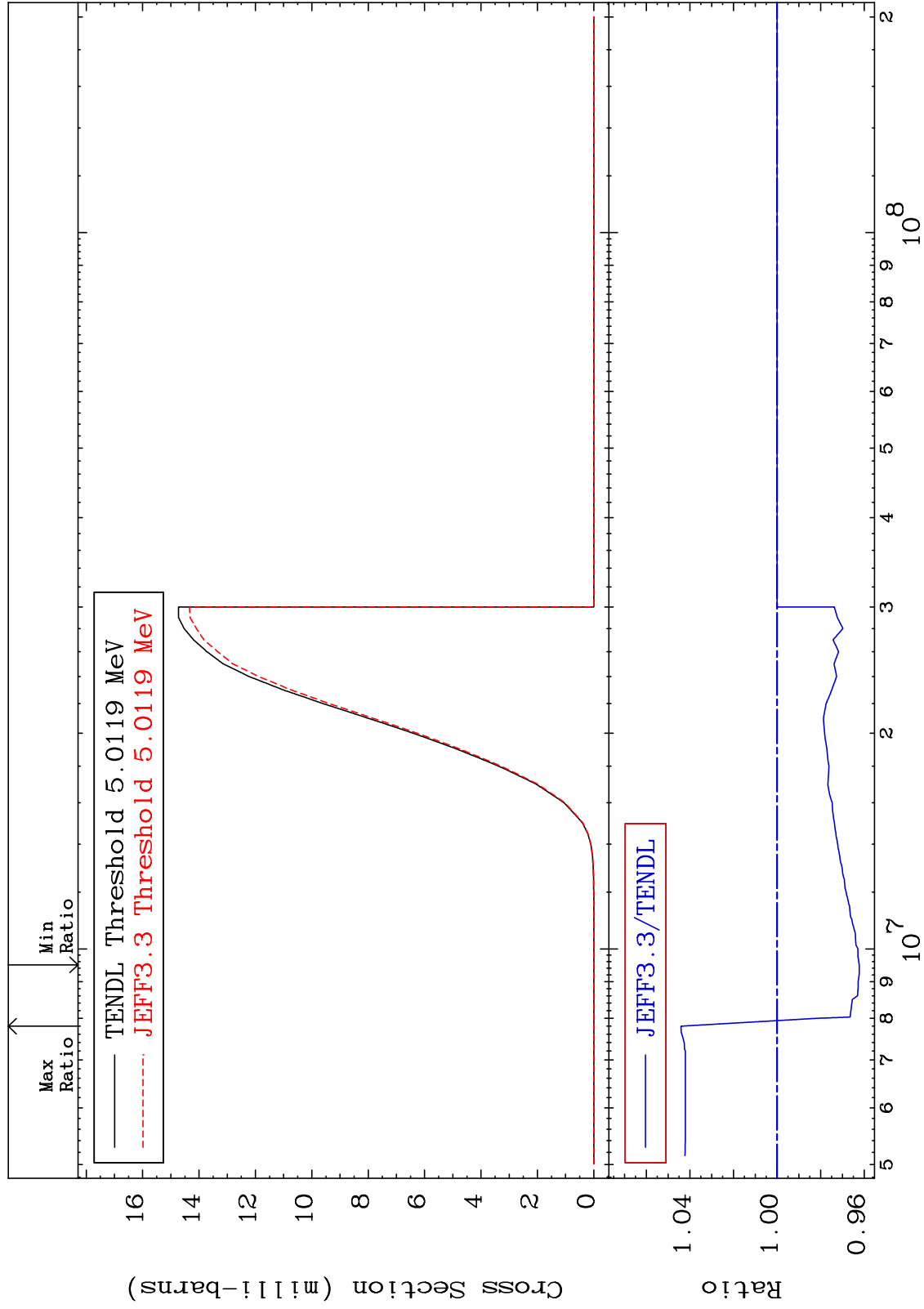
MAT 7637

(n, d)

76-0s-188

Cross Section

-3.773 To 4.403 %



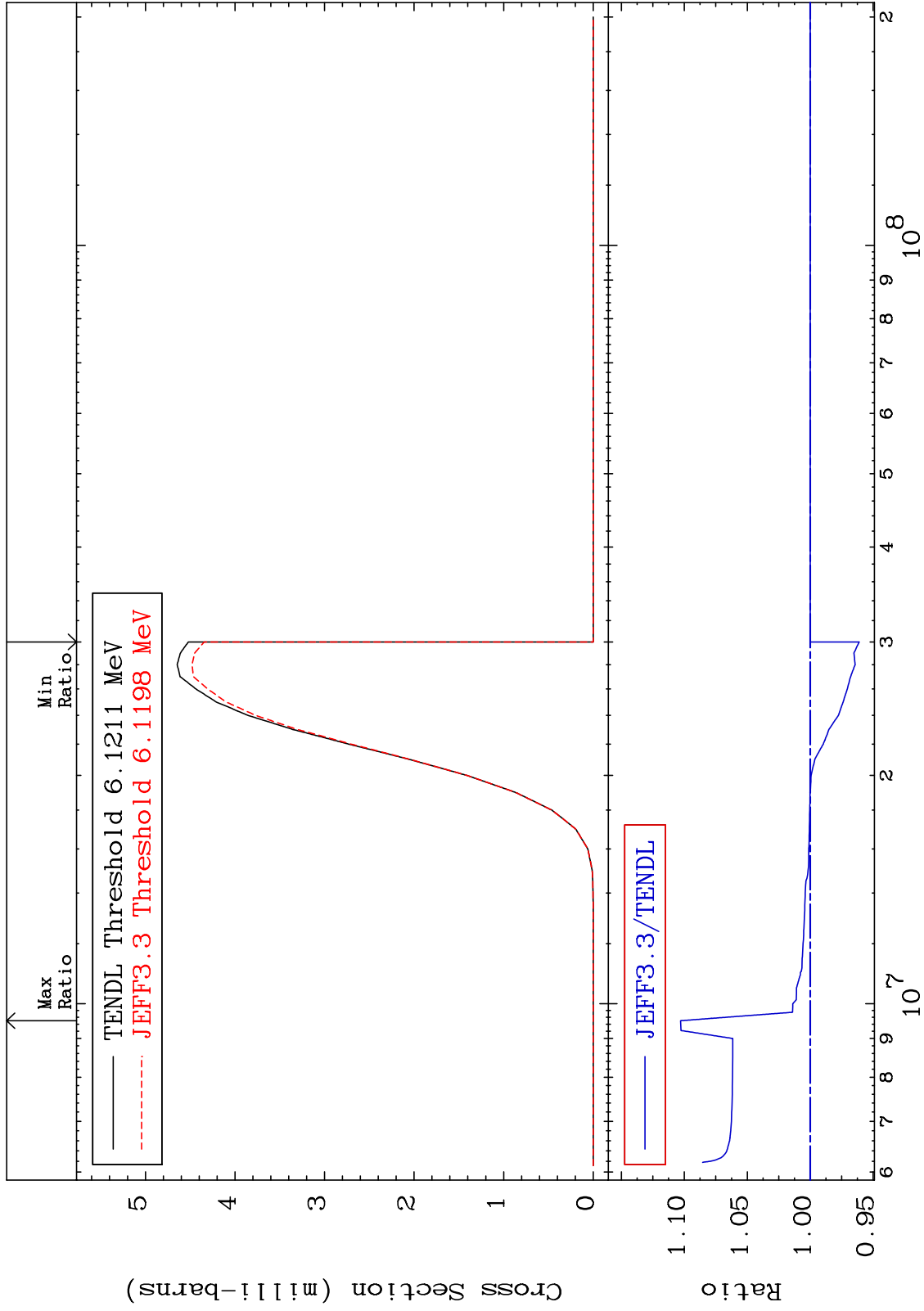
MAT 7637

(n, t)

76-0s-188

Cross Section

-3.889 To 10.29 %



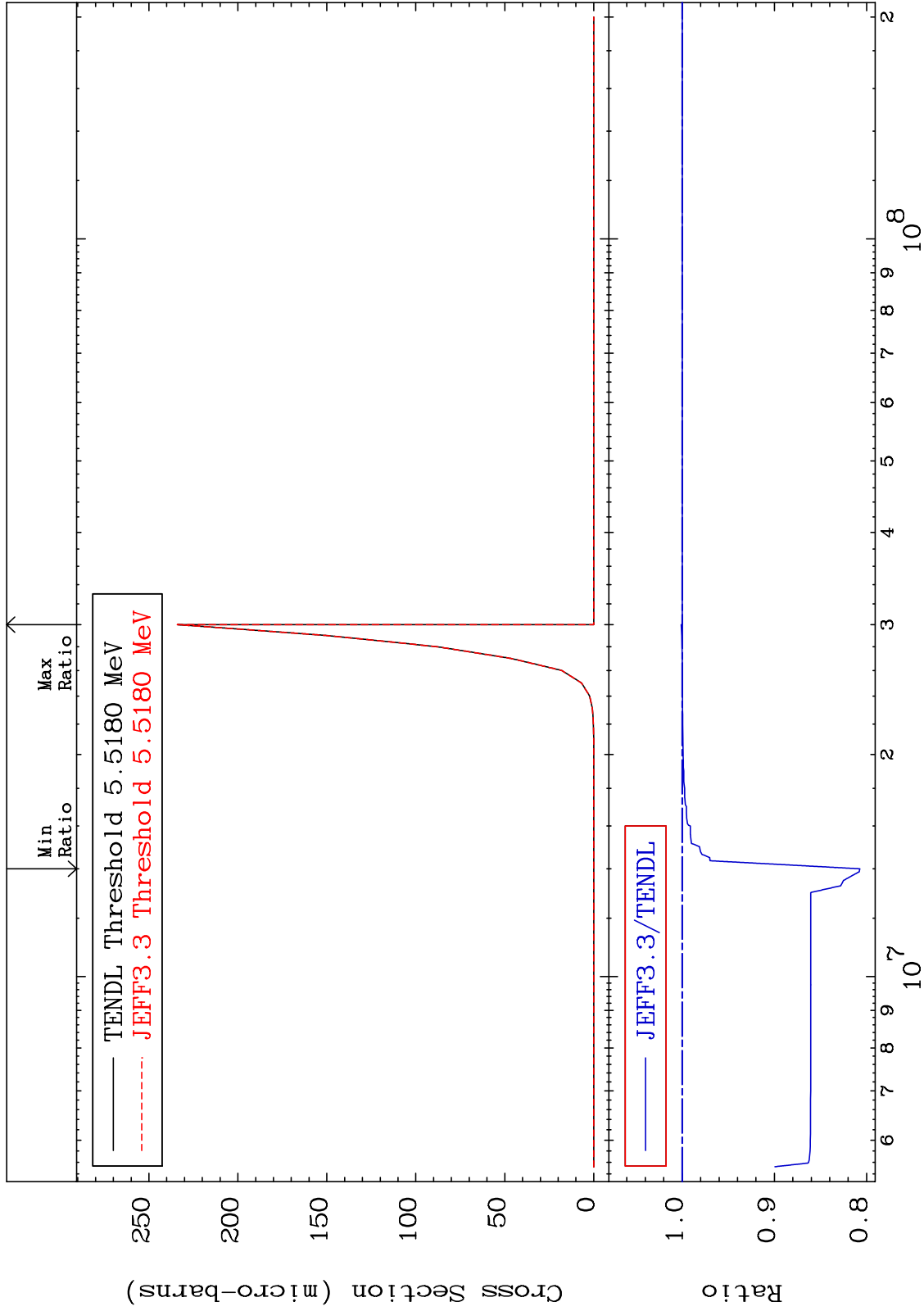
MAT 7637

(n, He-3)

76-0s-188

Cross Section

-19.28 To 0.104 %



55

Incident Energy (eV)

76-0s-188



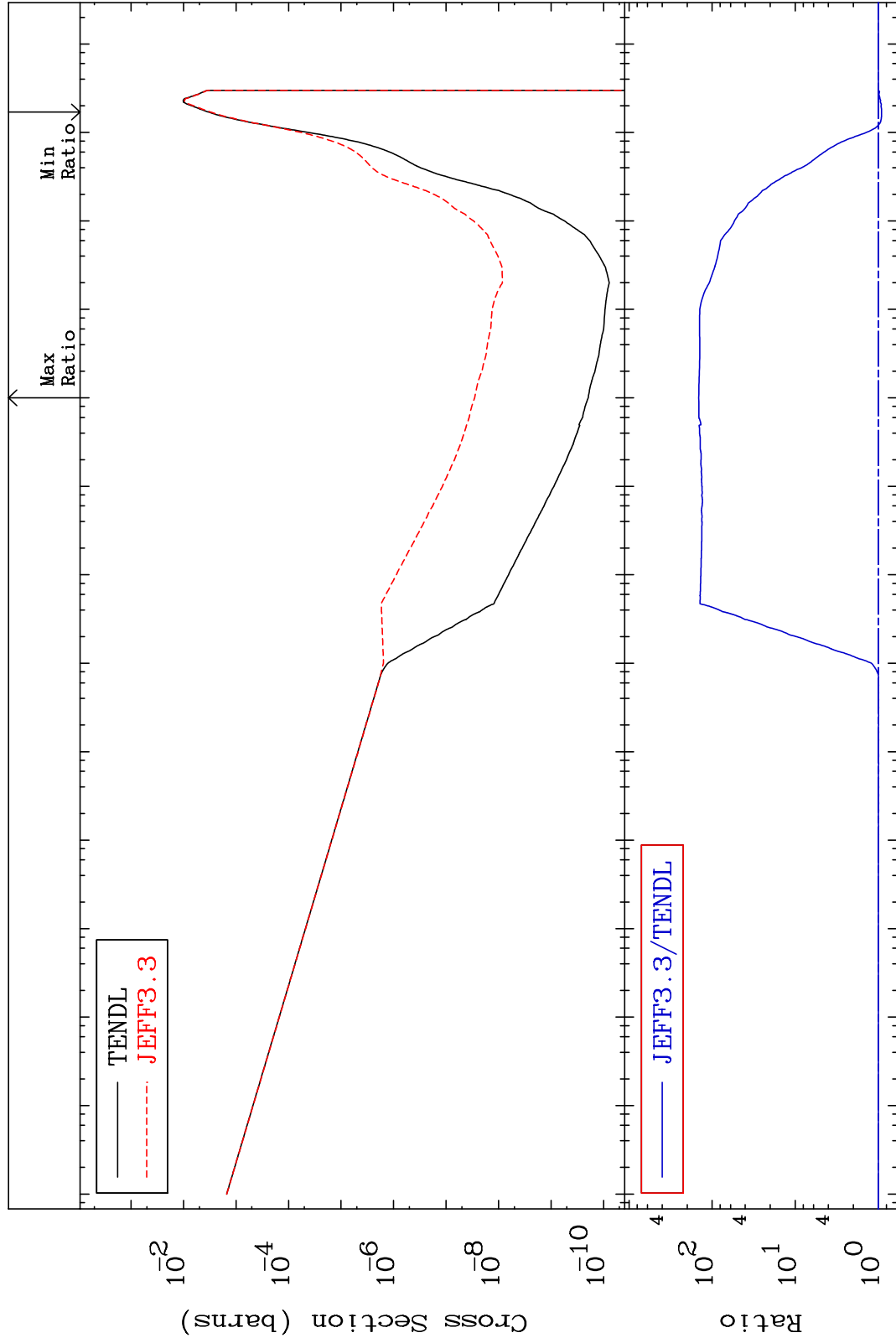
MAT 7637

(n,  $\alpha$ )

76-0s-188

Cross Section

-8.673 To 9999. %



56

Incident Energy (eV)

76-0s-188

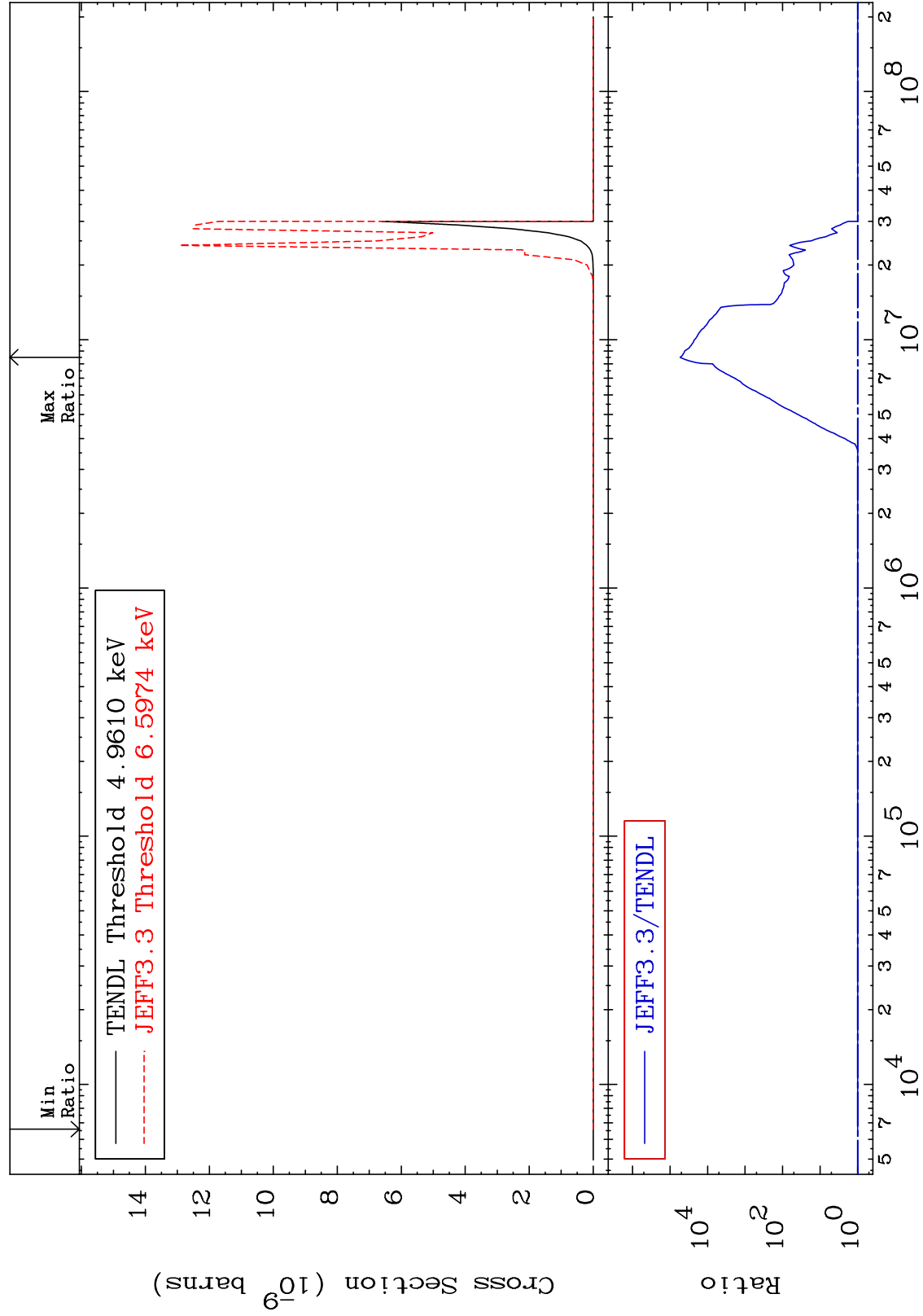
MAT 7637

(n, 2α)

76-0s-188

Cross Section

0.000 To 9999. %



57

Incident Energy (eV)

76-0s-188

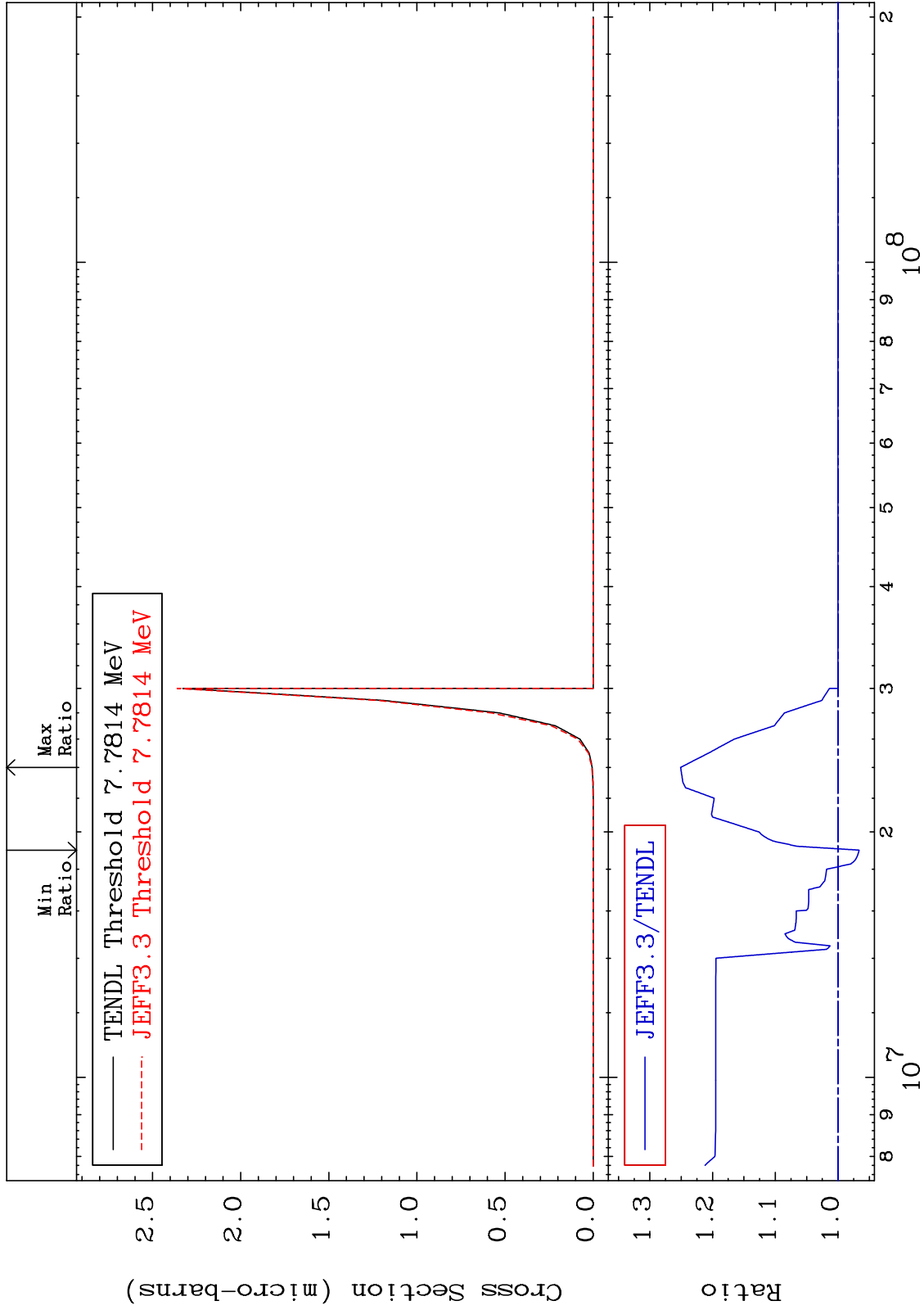
MAT 7637

(n,2p)

76-0s-188

Cross Section

-3.379 To 25.09 %



58

Incident Energy (eV)

76-0s-188

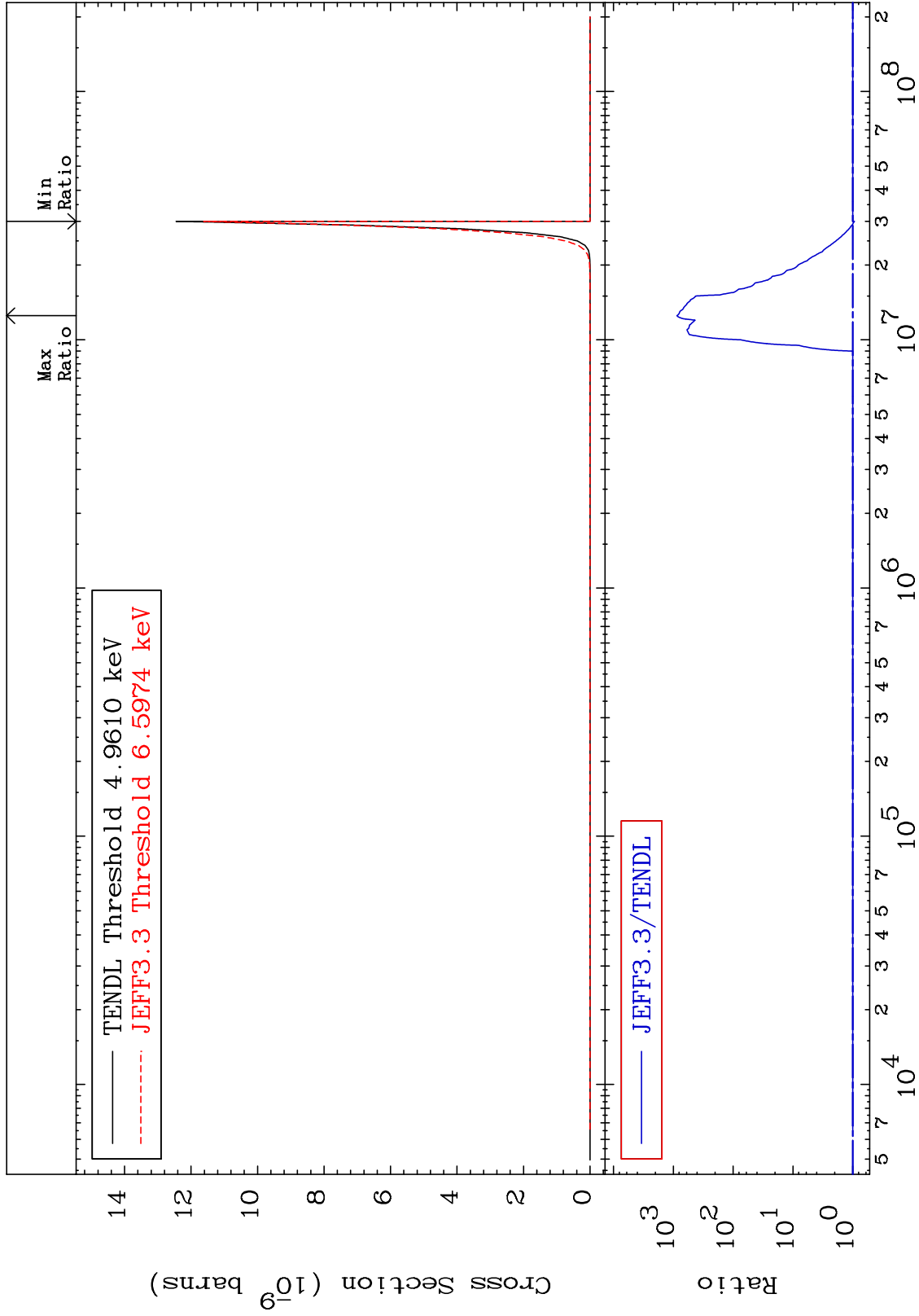
MAT 7637

(n,p)  $\alpha$

Cross Section

76-Os-188

-6.646 To 9999. %



59

Incident Energy (eV)

76-Os-188

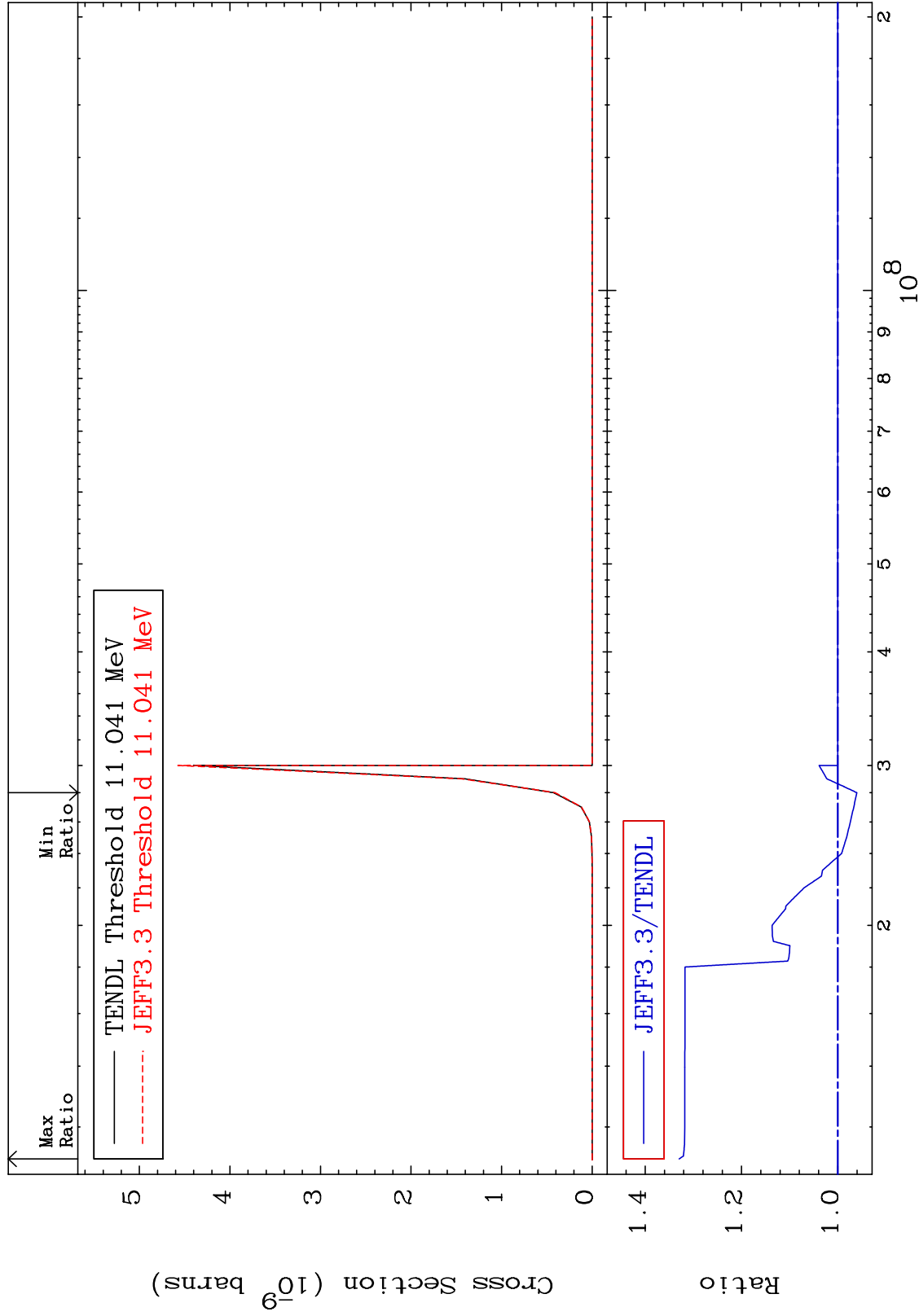
MAT 7637

(n,p) d

76-0s-188

Cross Section

-3.966 To 32.96 %



60

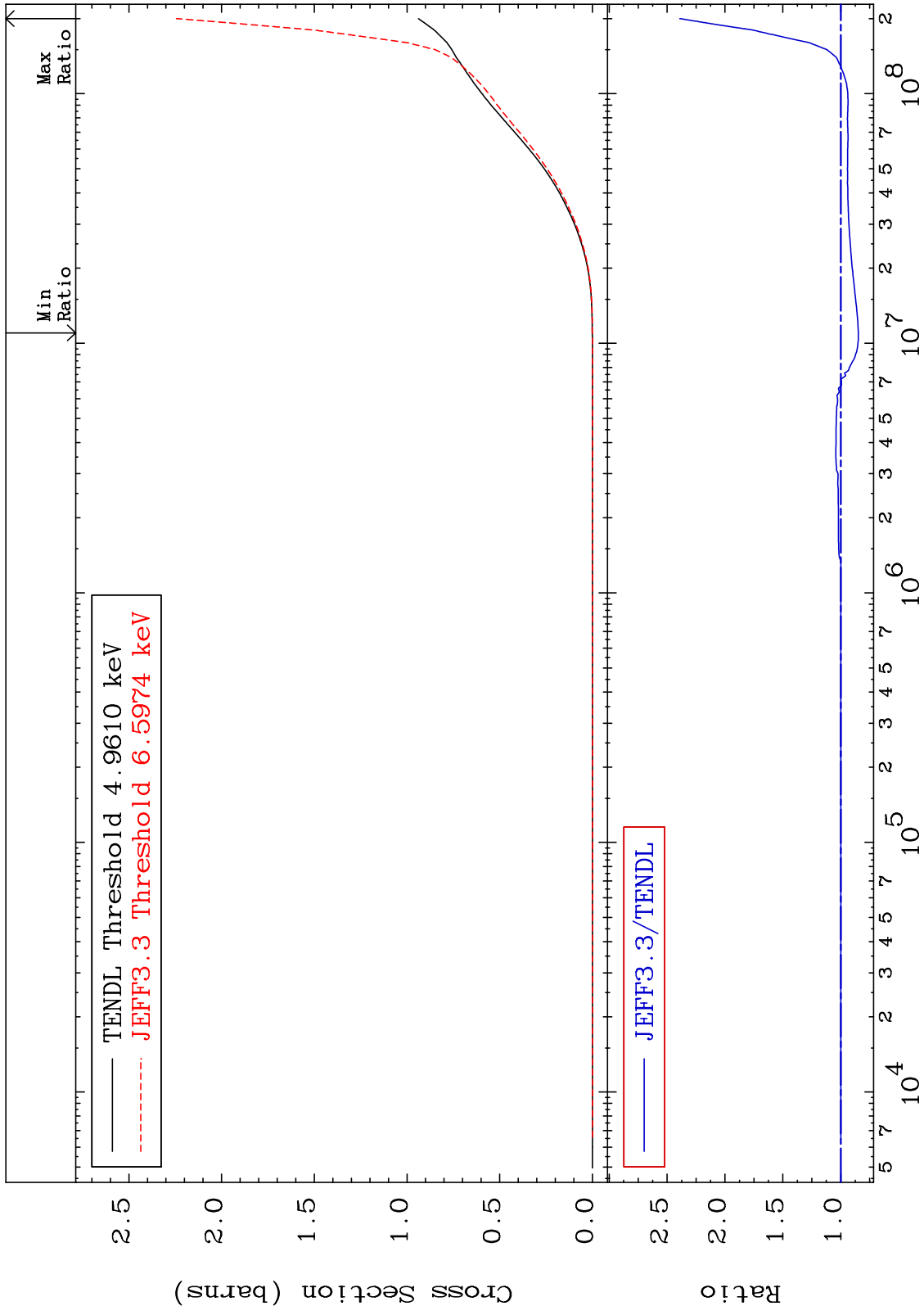
Incident Energy (eV)

76-0s-188

MAT 7637

Hydrogen Production  
Cross Section

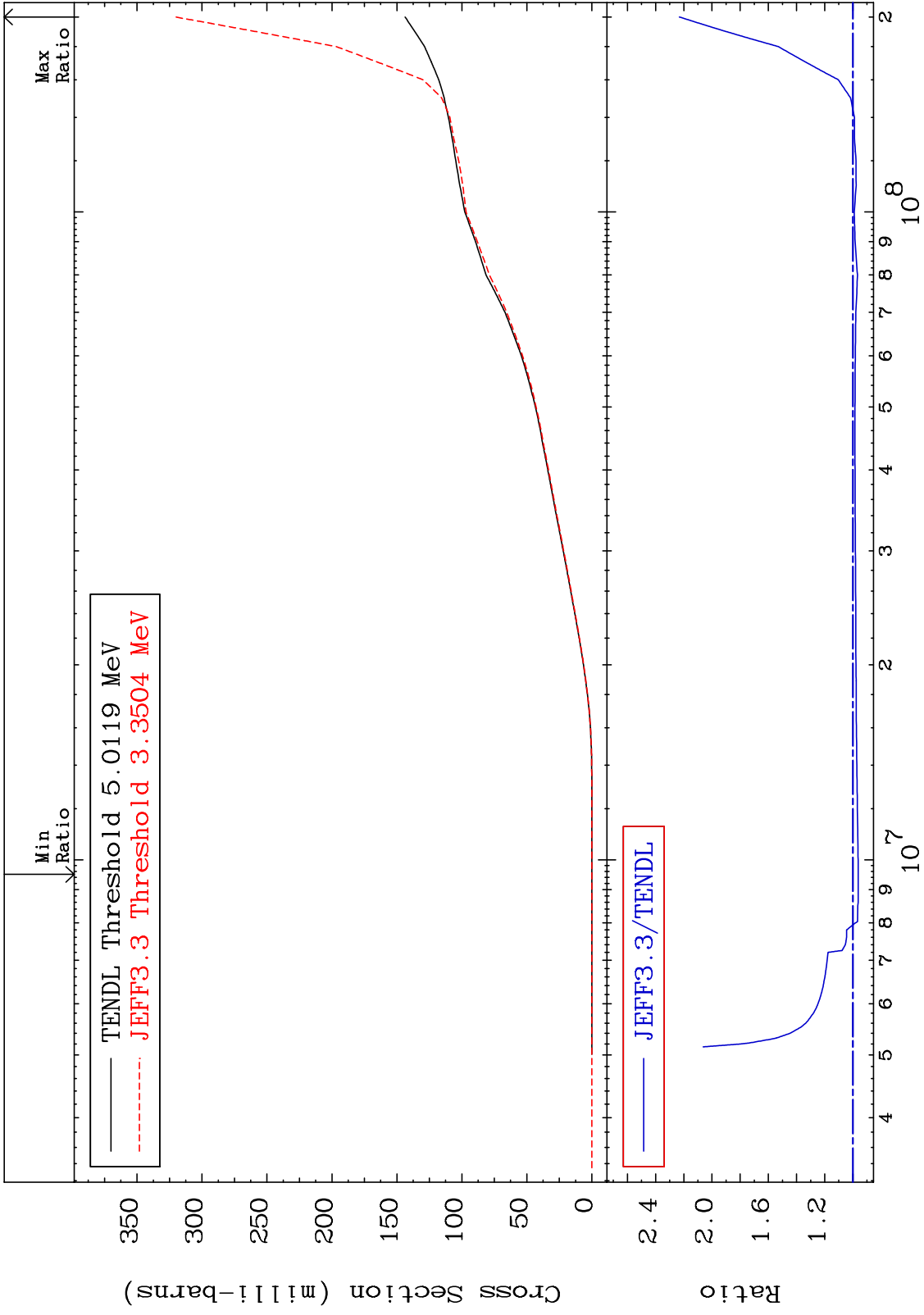
76-0s-188  
-15.20 To 139.1 %



MAT 7637

Deuterium Production  
Cross Section

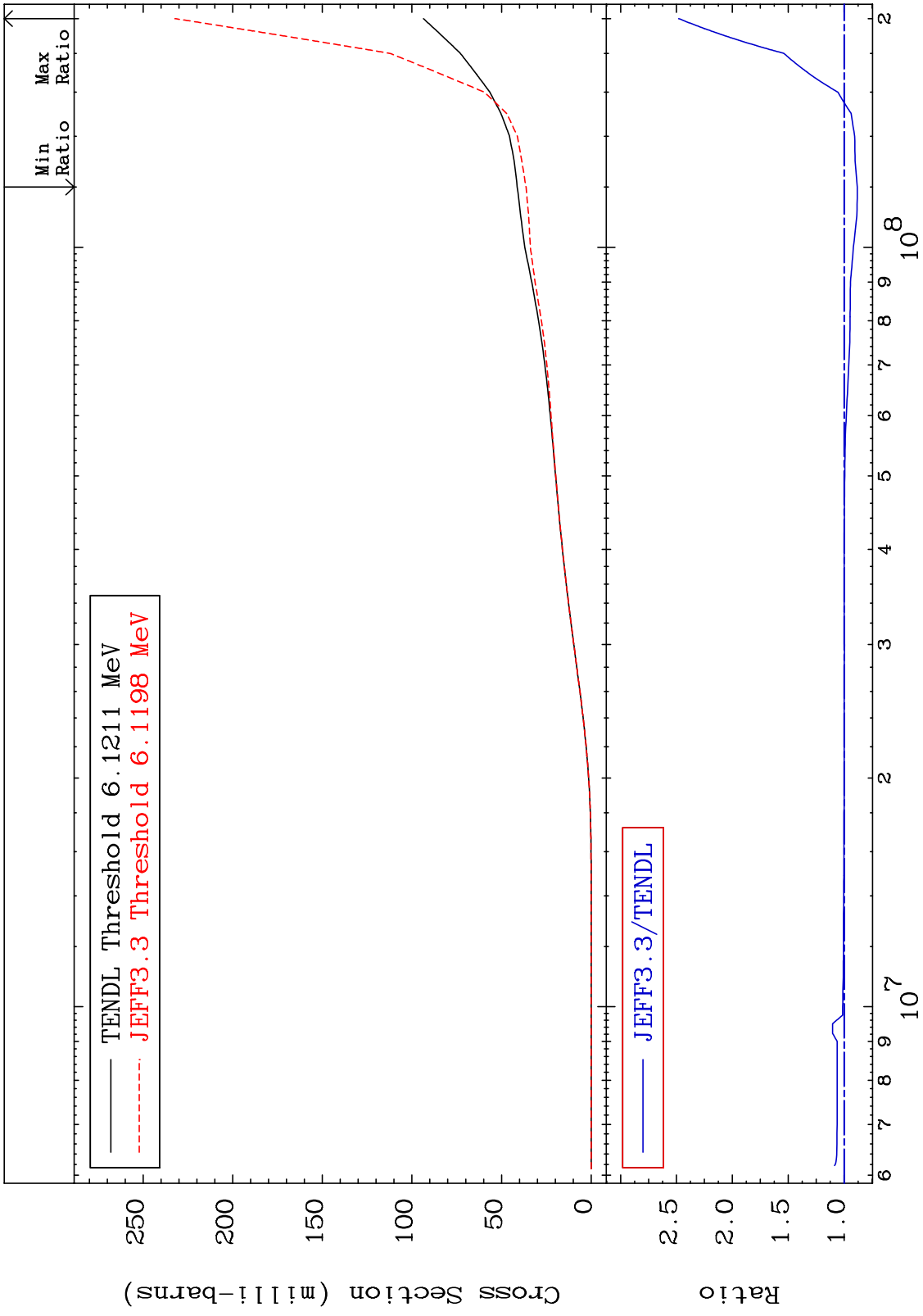
76-0s-188  
-3.773 To 123.1 %



MAT 7637

Tritium Production  
Cross Section

76-Os-188  
-11.83 To 148.1 %



63

Incident Energy (eV)

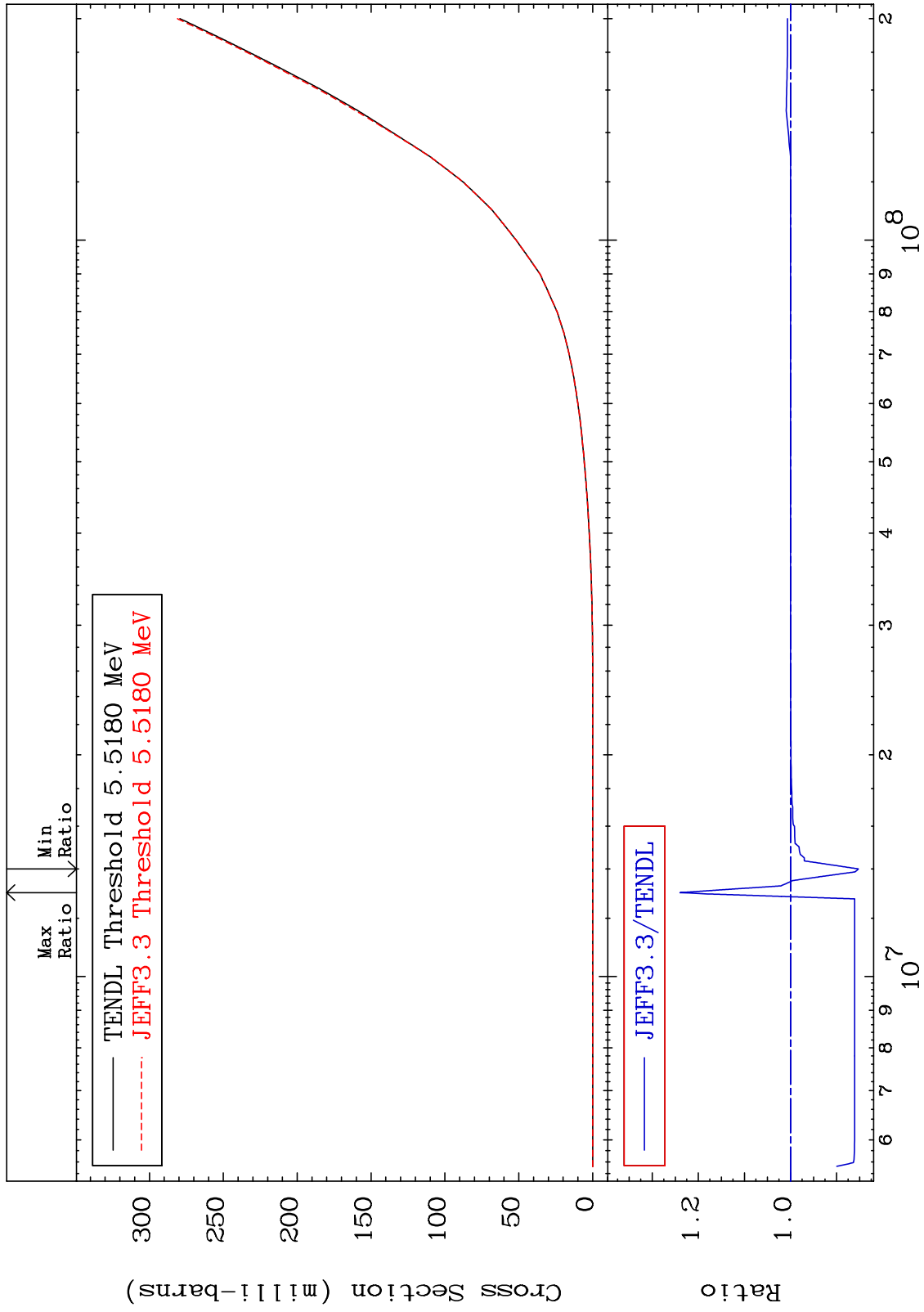
76-Os-188



MAT 7637

He-3 Production  
Cross Section

76-0s-188  
-14.73 To 23.97 %



64

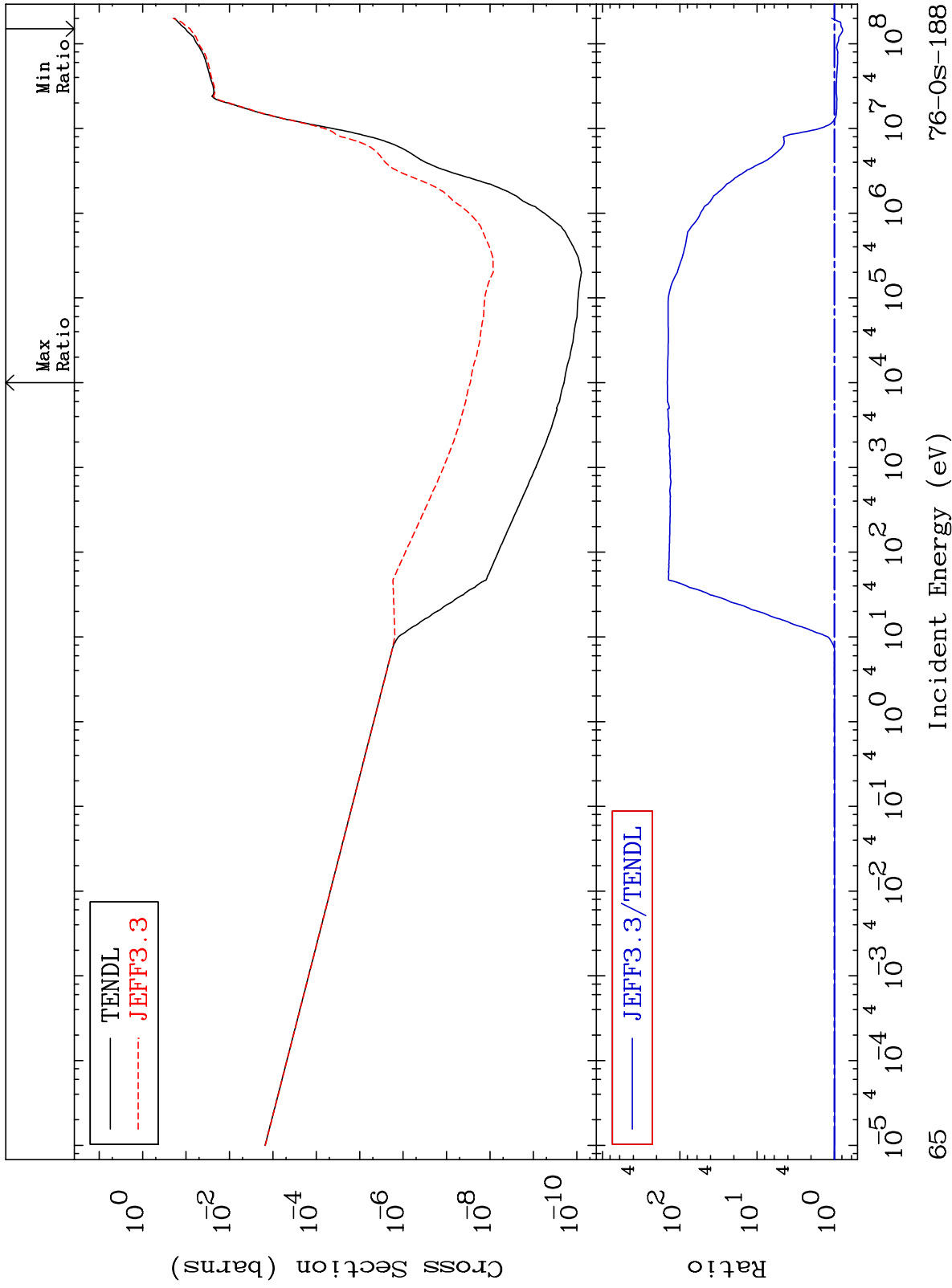
Incident Energy (eV)

76-0s-188

MAT 7637

He-4 Production  
Cross Section

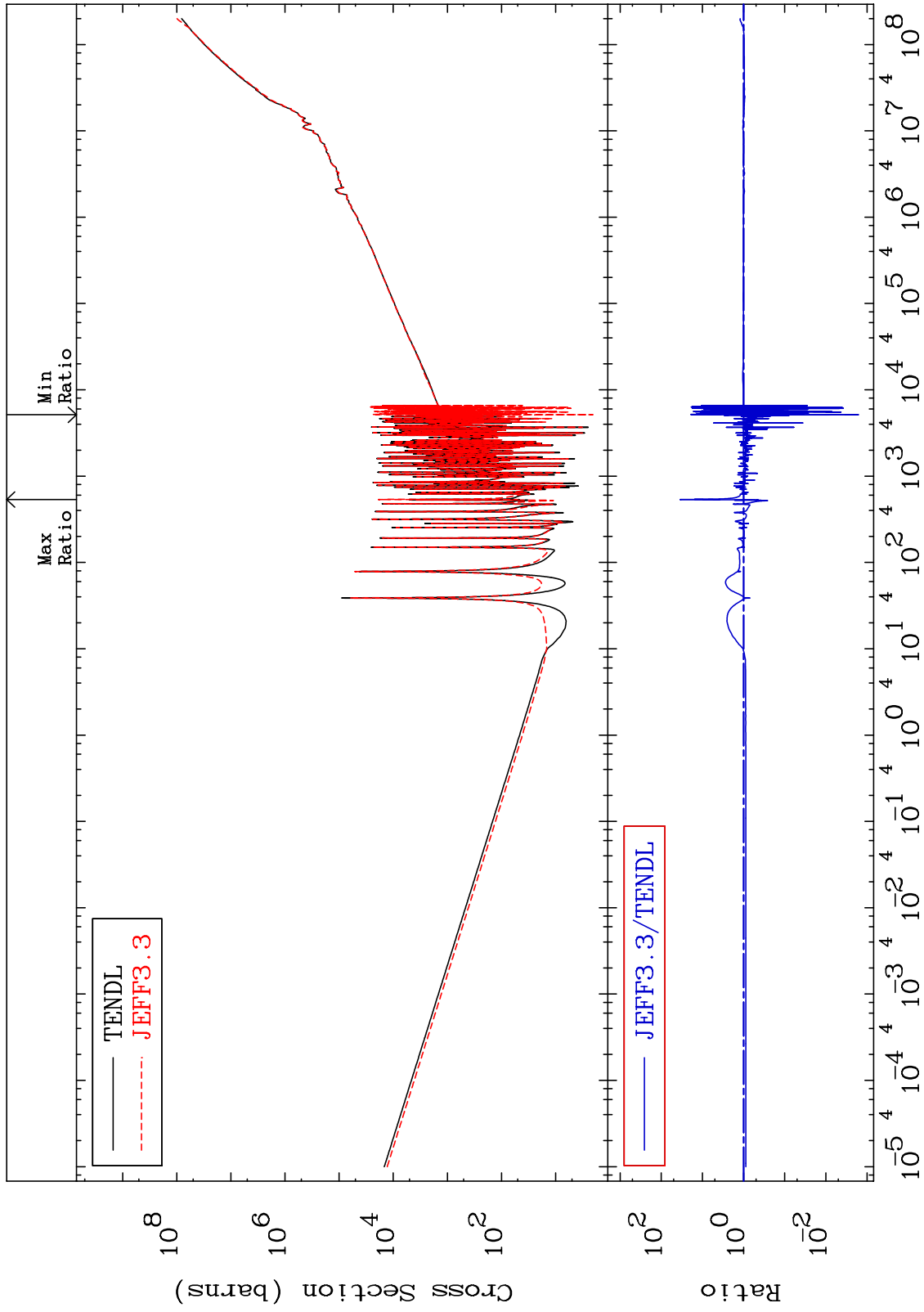
76-0s-188  
-21.69 To 9999. %



MAT 7637

Kerma total (eV-barns)  
Cross Section

76-0s-188  
-99.84 To 3403. %



66

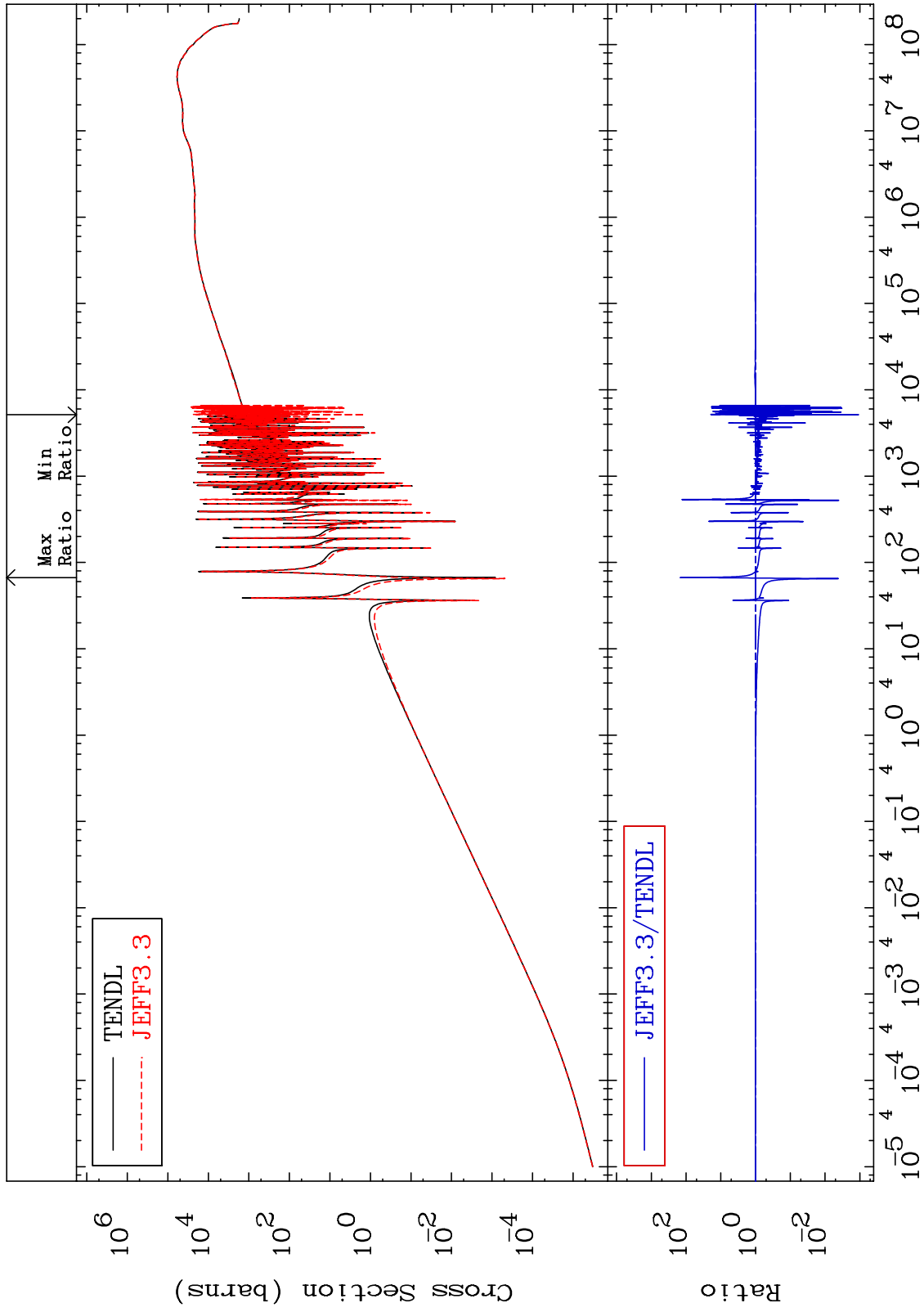
Incident Energy (eV)

76-0s-188

MAT 7637

Kerma elastic  
Cross Section

76-0s-188  
-99.89 To 9999. %



67

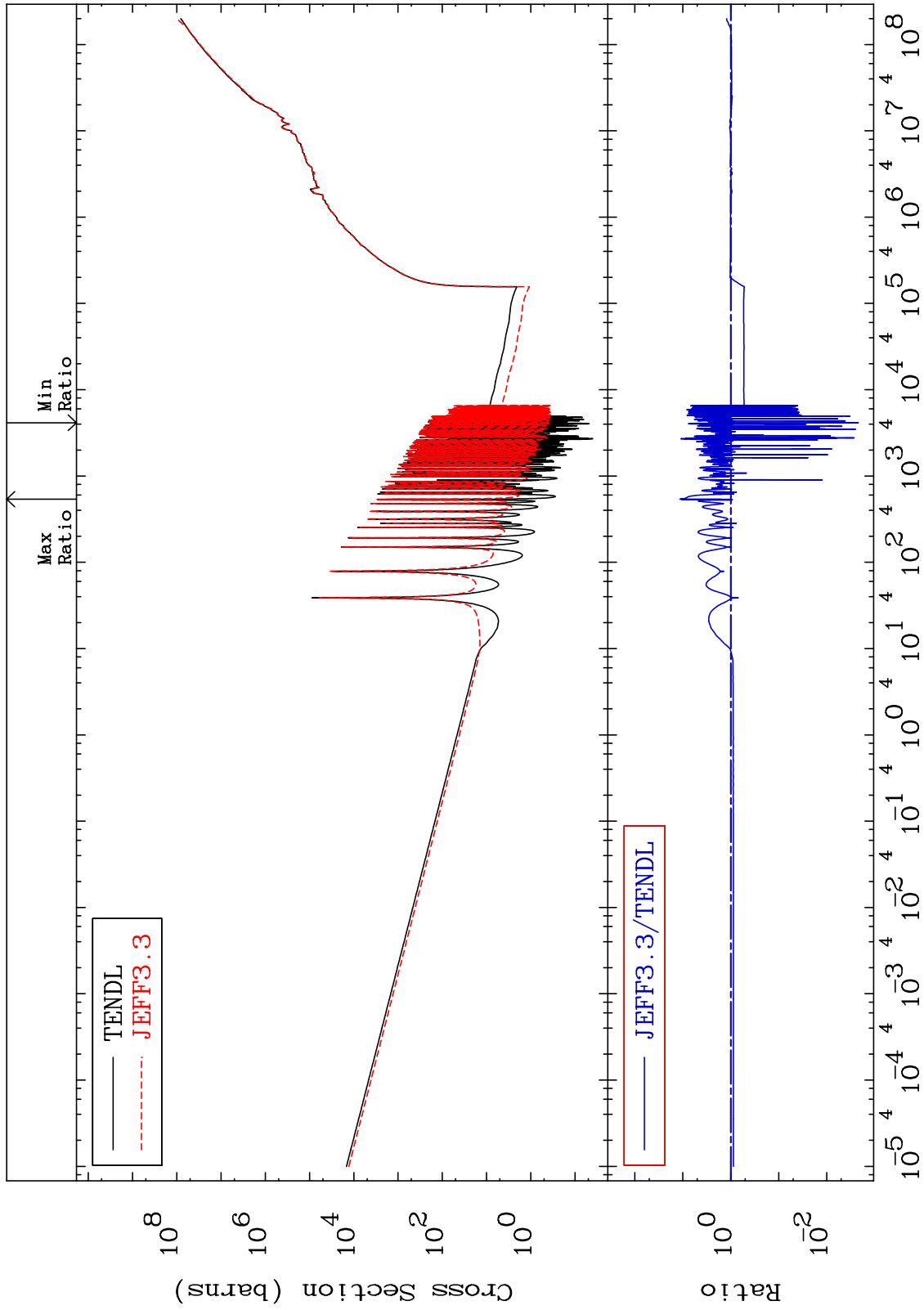
Incident Energy (eV)

76-0s-188

MAT 7637

Kerma non-elastic (all but mt2)  
Cross Section

76-0s-188  
-99.78 To 1039. %



68

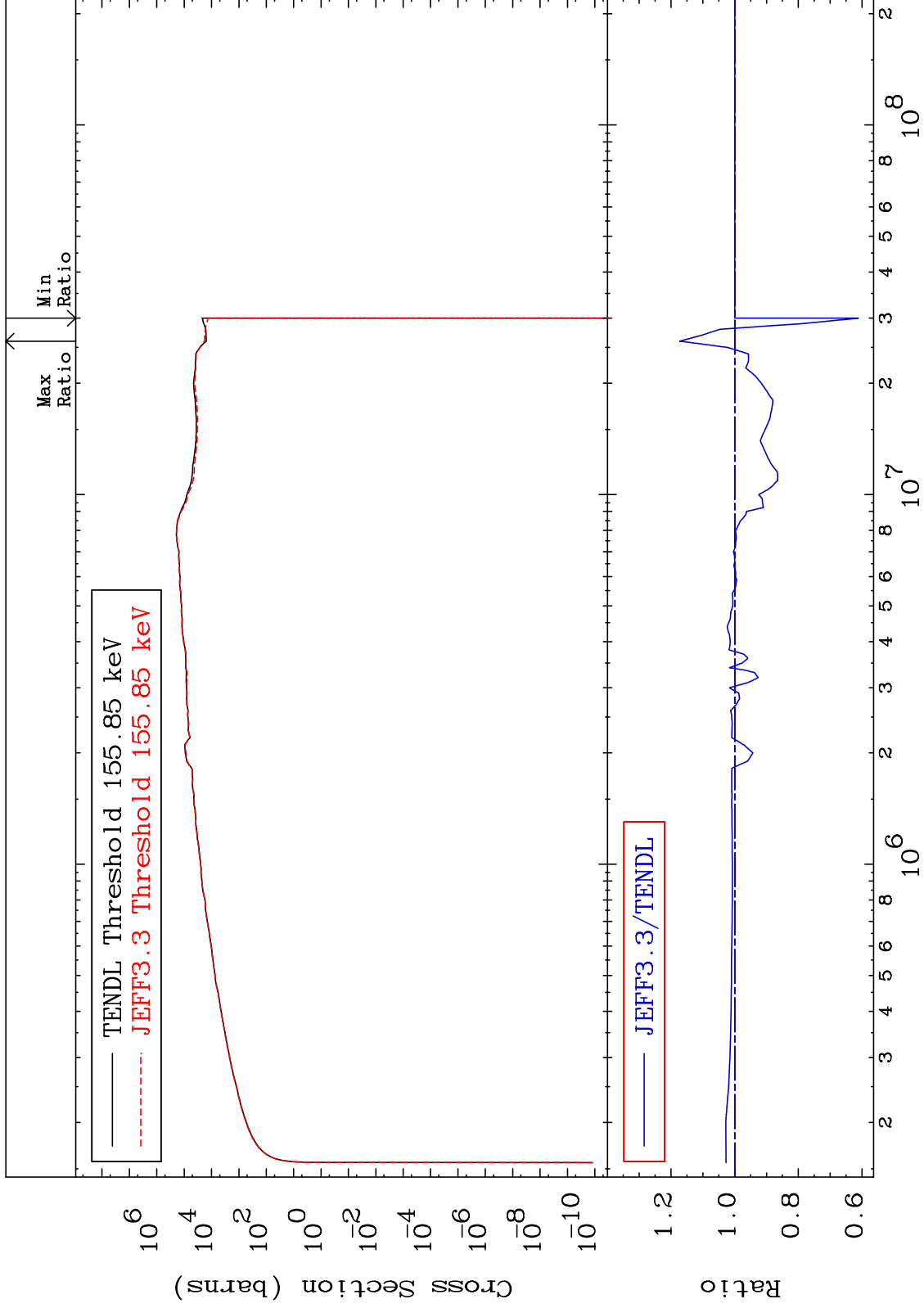
Incident Energy (eV)

76-0s-188

MAT 7637

Kerma inelastic (mt51-91)  
Cross Section

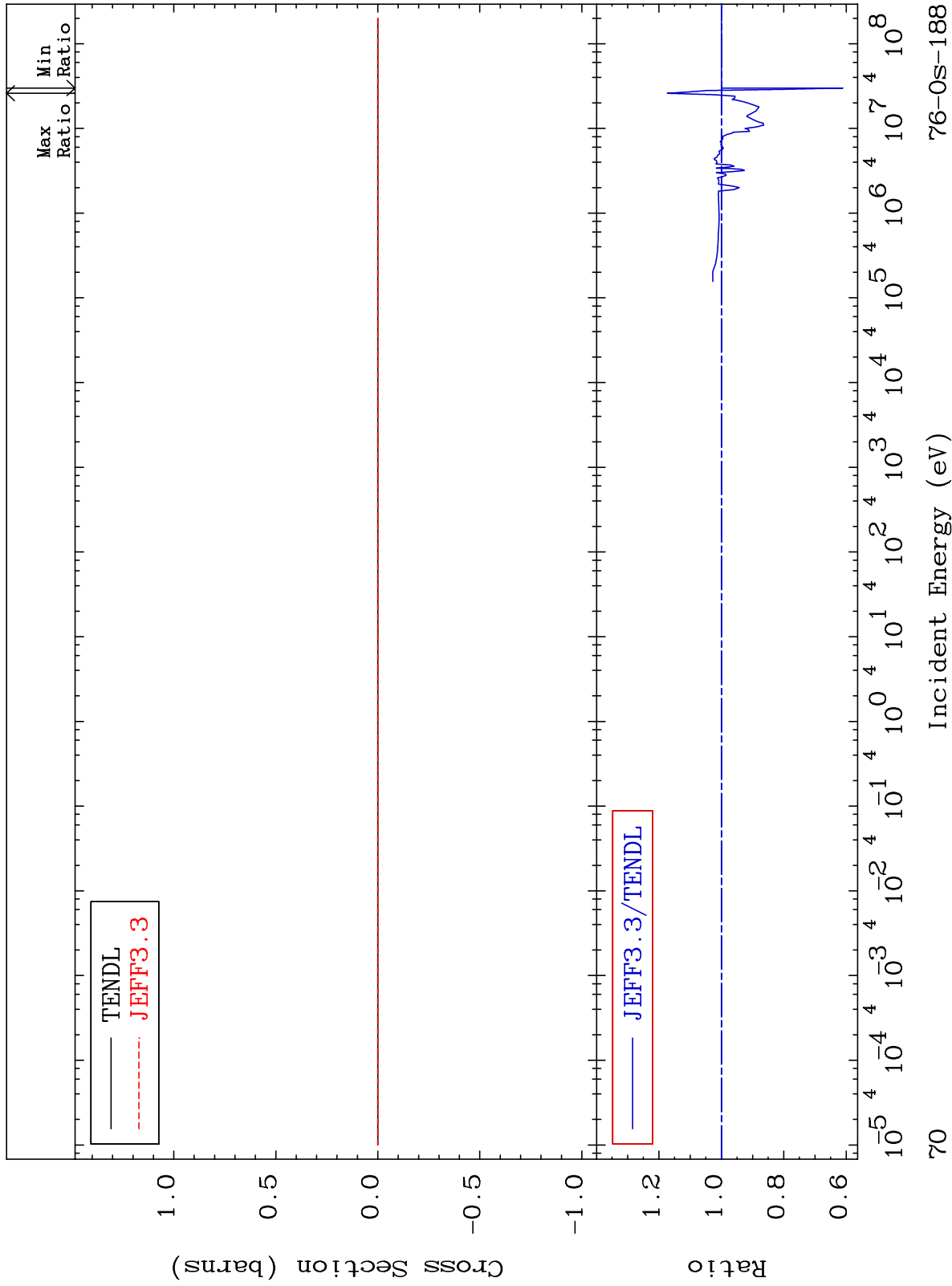
76-0s-188  
-38.84 To 17.24 %



MAT 7637

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

76-0s-188  
-38.84 To 17.24 %



70

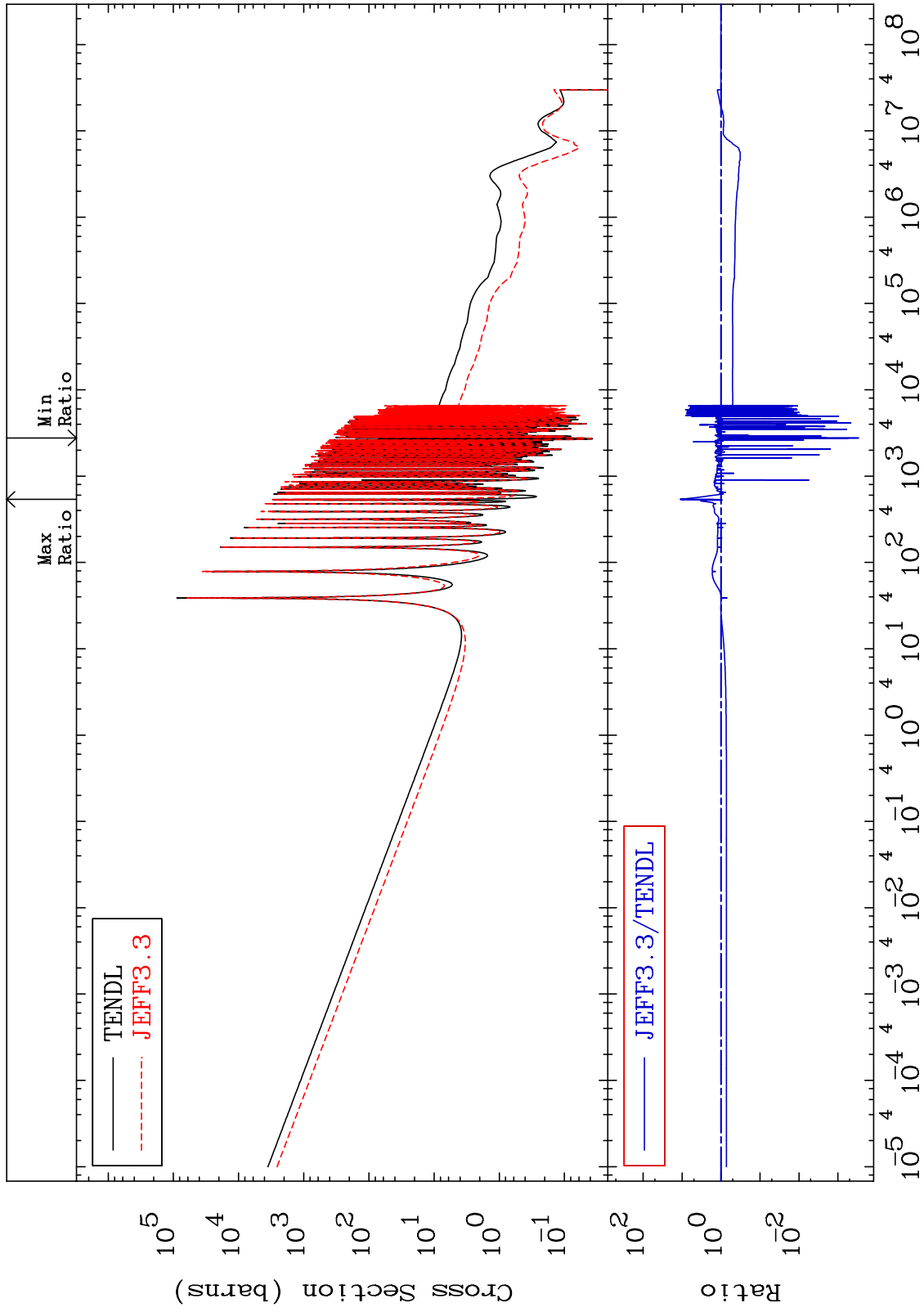
Incident Energy (eV)

76-0s-188

MAT 7637

Kerma capture (mt102)  
Cross Section

76-0s-188  
-99.97 To 1030. %



71

Incident Energy (eV)

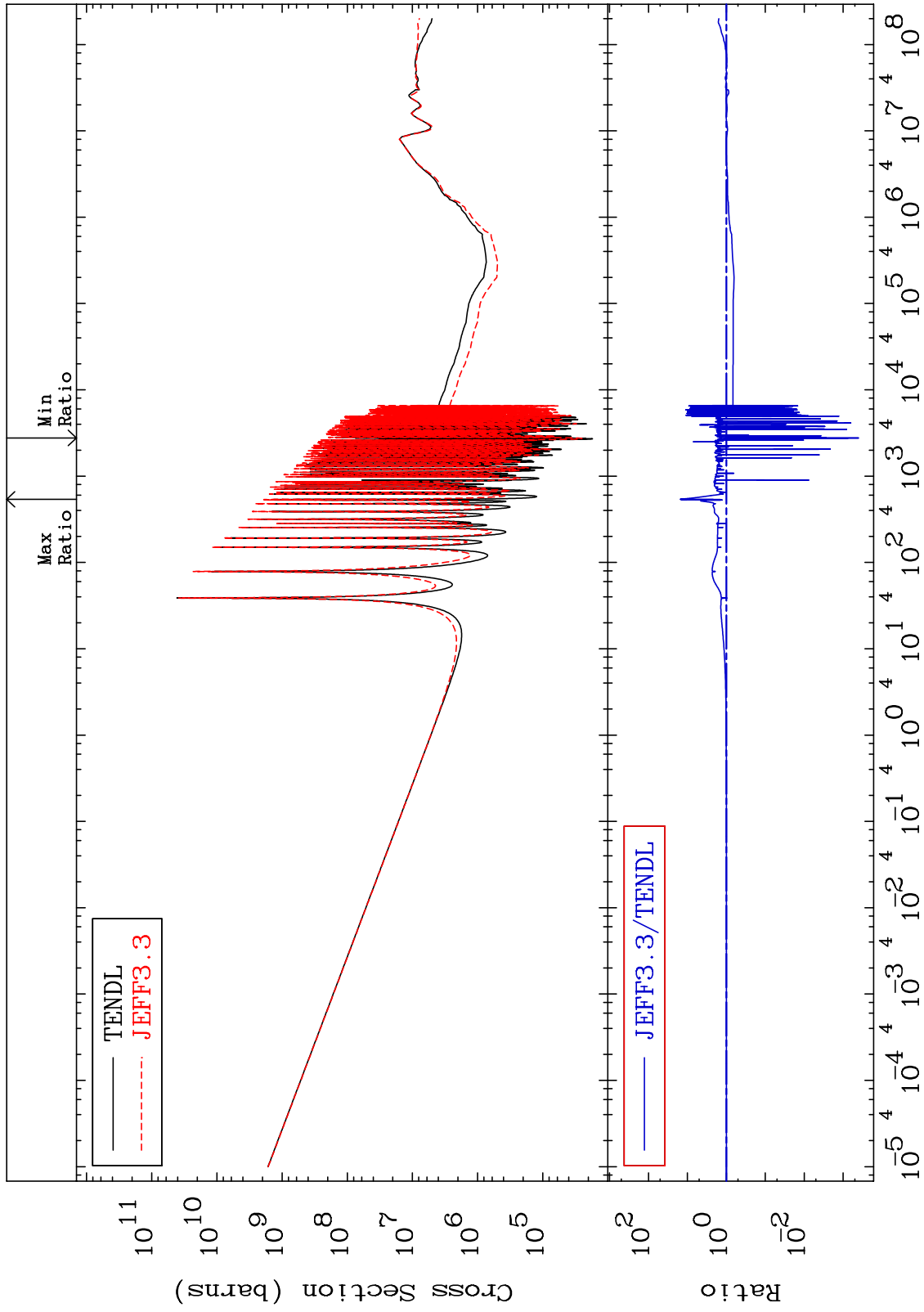
76-0s-188



MAT 7637

Total photon (eV-barns)  
Cross Section

76-0s-188  
-99.96 To 1445. %



72

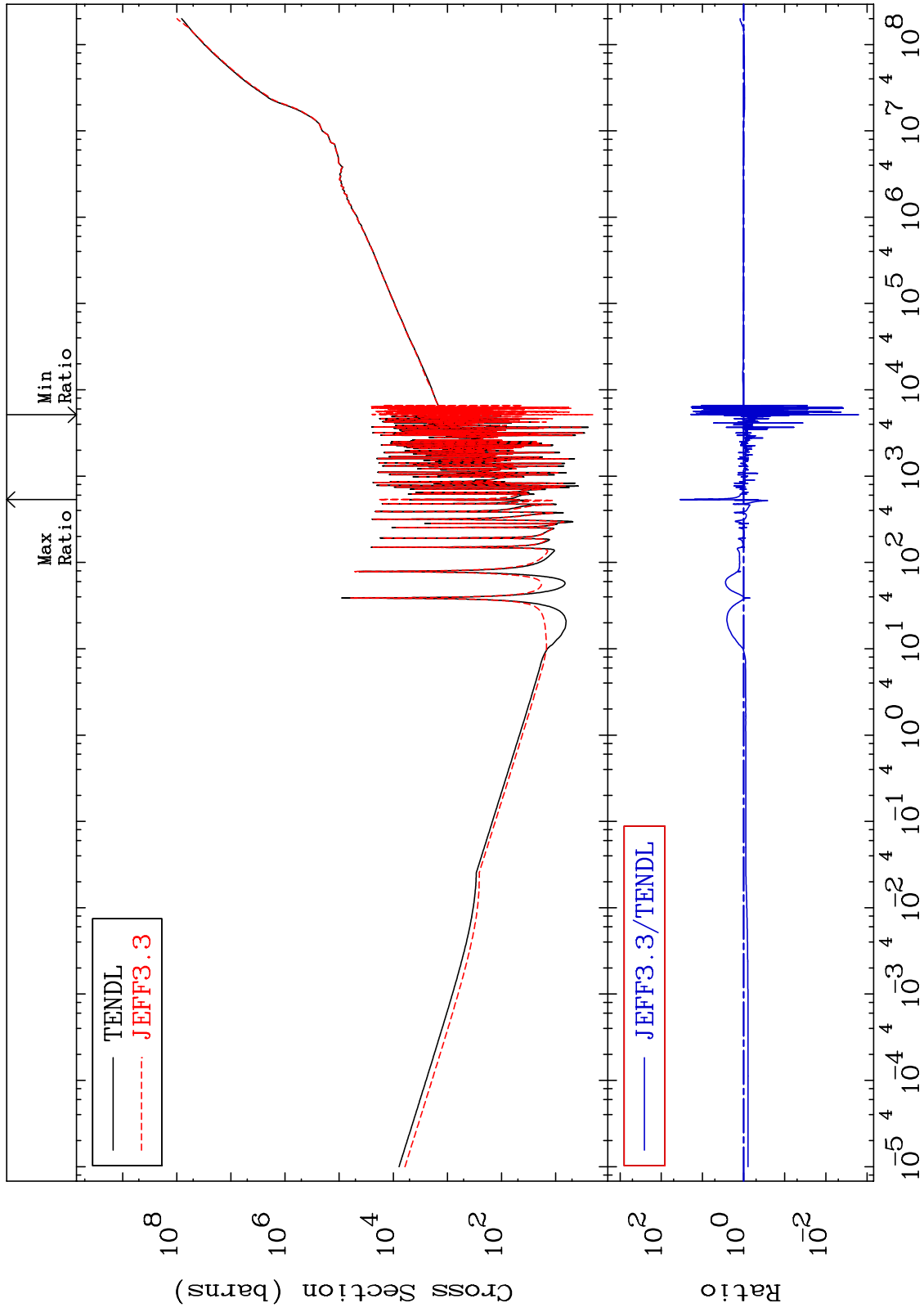
Incident Energy (eV)

76-0s-188

MAT 7637

Total kinematic kerma (high limit)  
Cross Section

76-0s-188  
-99.84 To 3403. %



73

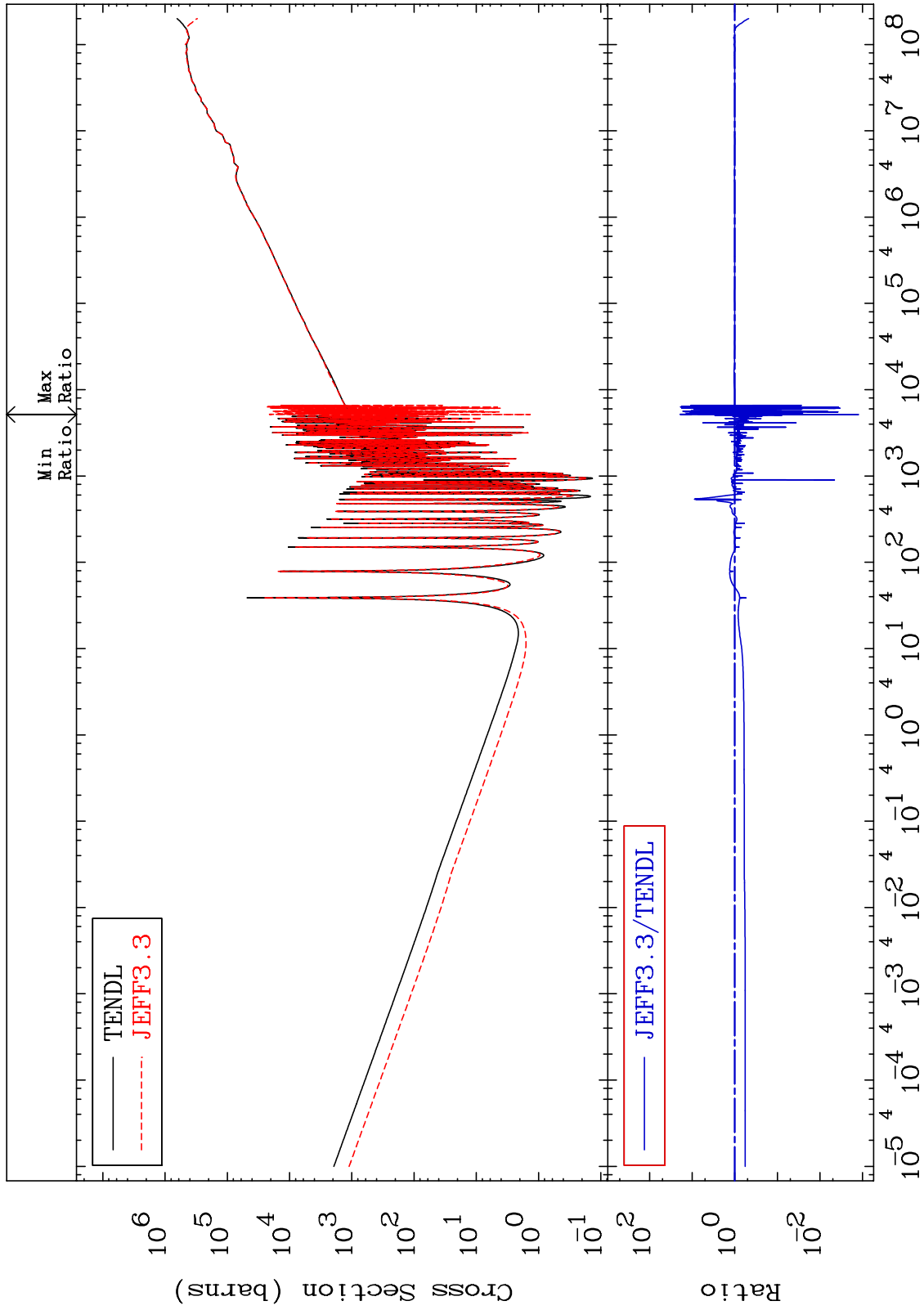
Incident Energy (eV)

76-0s-188

MAT 7637

Dpa total (eV-barns)  
Cross Section

76-0s-188  
-99.87 To 1831. %



74

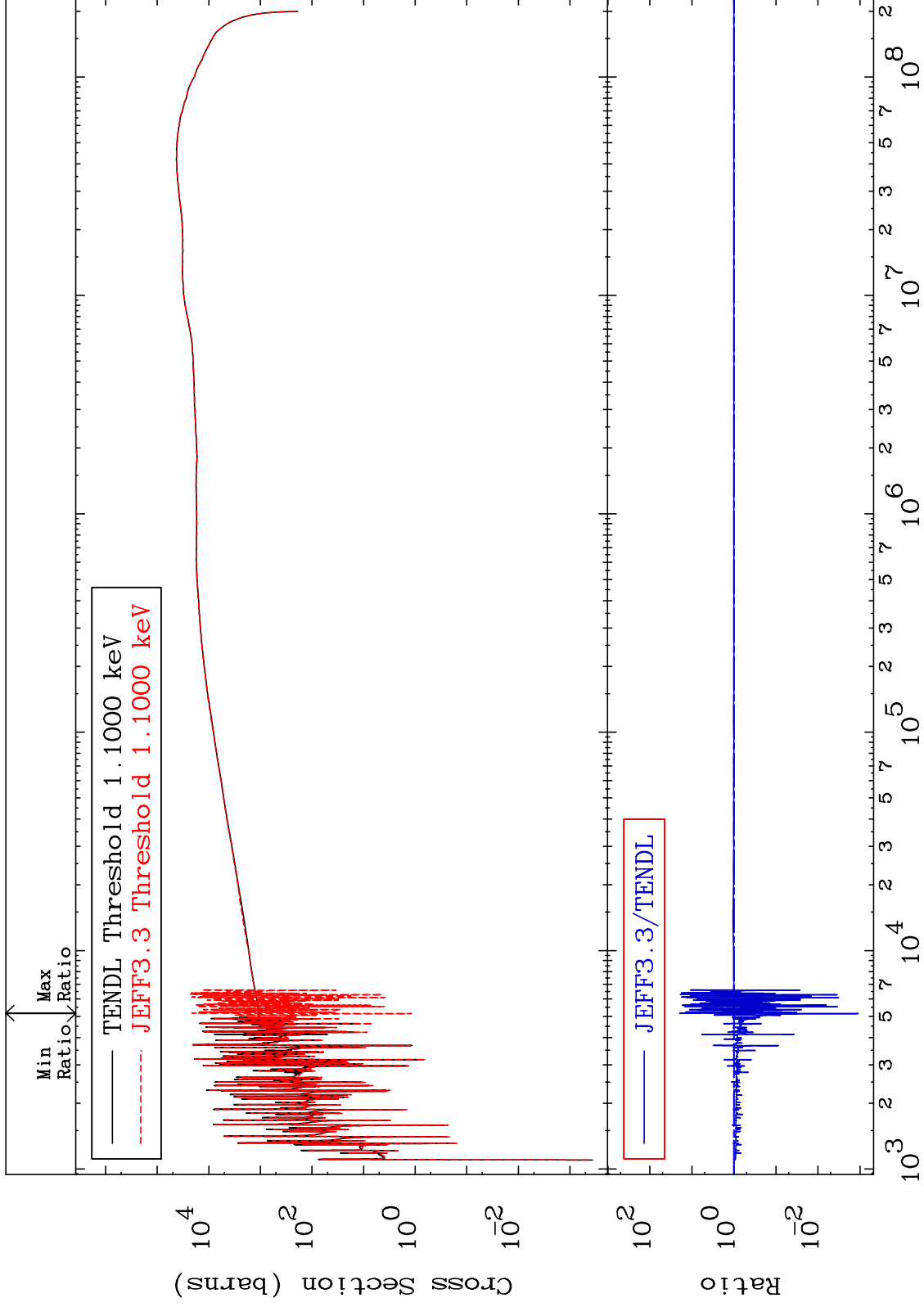
Incident Energy (eV)

76-0s-188

MAT 7637

Dpa elastic (mt2)  
Cross Section

76-0s-188  
-99.89 To 1839. %



75

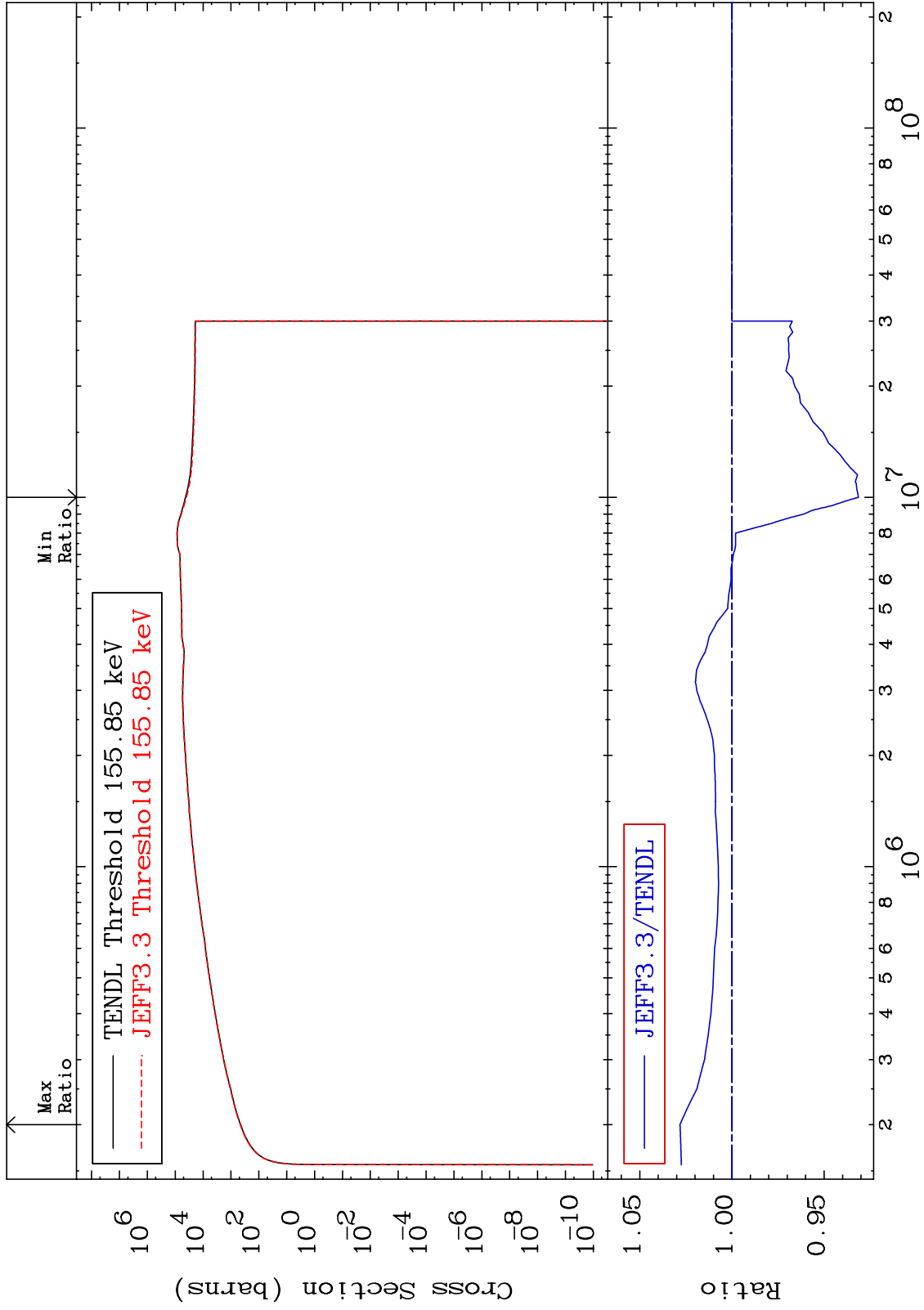
Incident Energy (eV)

76-0s-188

MAT 7637

Dpa inelastic (mt51-91)  
Cross Section

76-0s-188  
-6.860 To 2.817 %



76

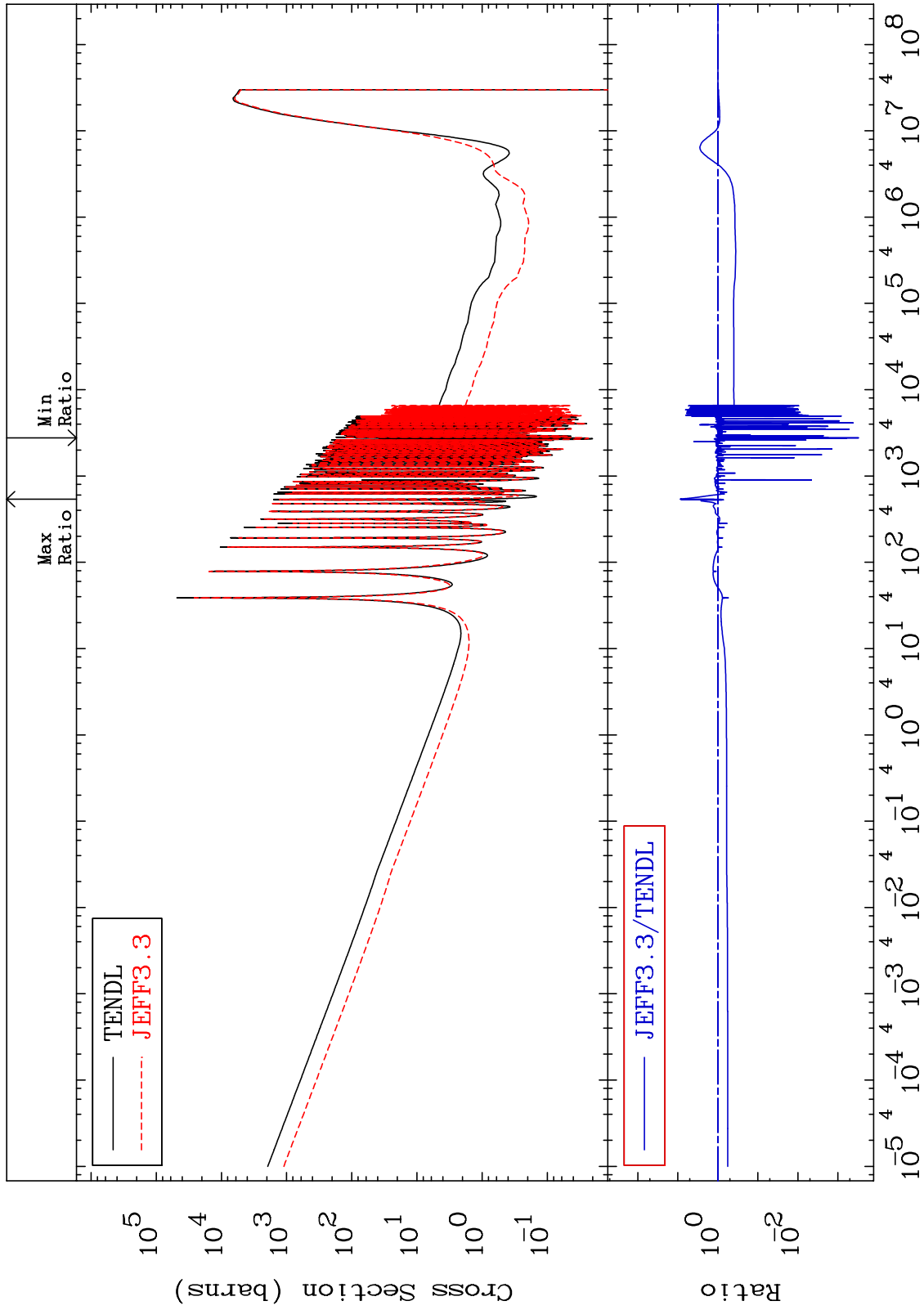
Incident Energy (eV)

76-0s-188

MAT 7637

Dpa disappearance (mt102 -120)  
Cross Section

76-0s-188  
-99.97 To 779.9 %



77

Incident Energy (eV)

76-0s-188

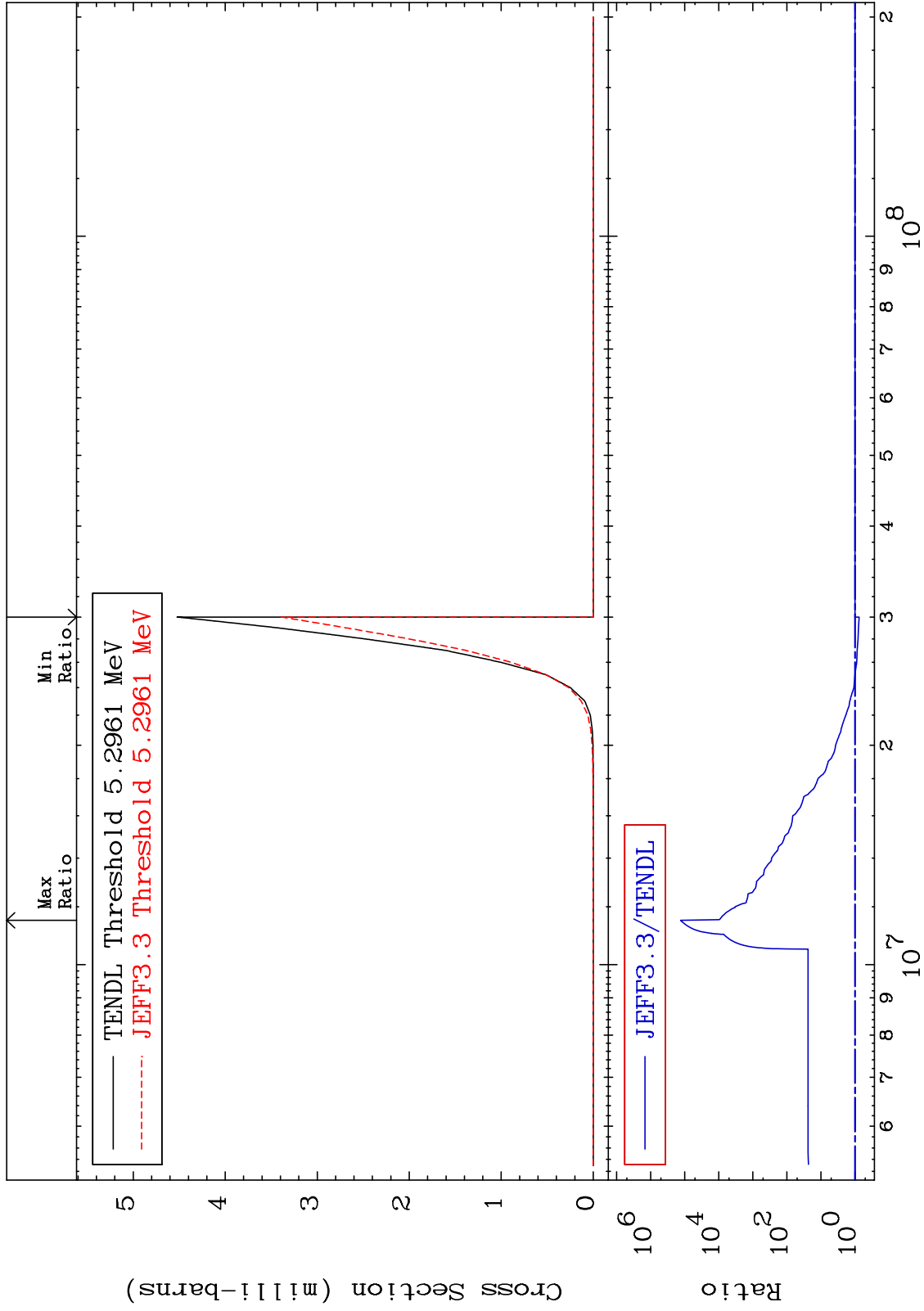
MAT 7637

(n,2n)  $\alpha$ :74-W -183g

76-0s-188

Radionuclide Production Cross Section

-25.07 To 9999. %



78

Incident Energy (eV)

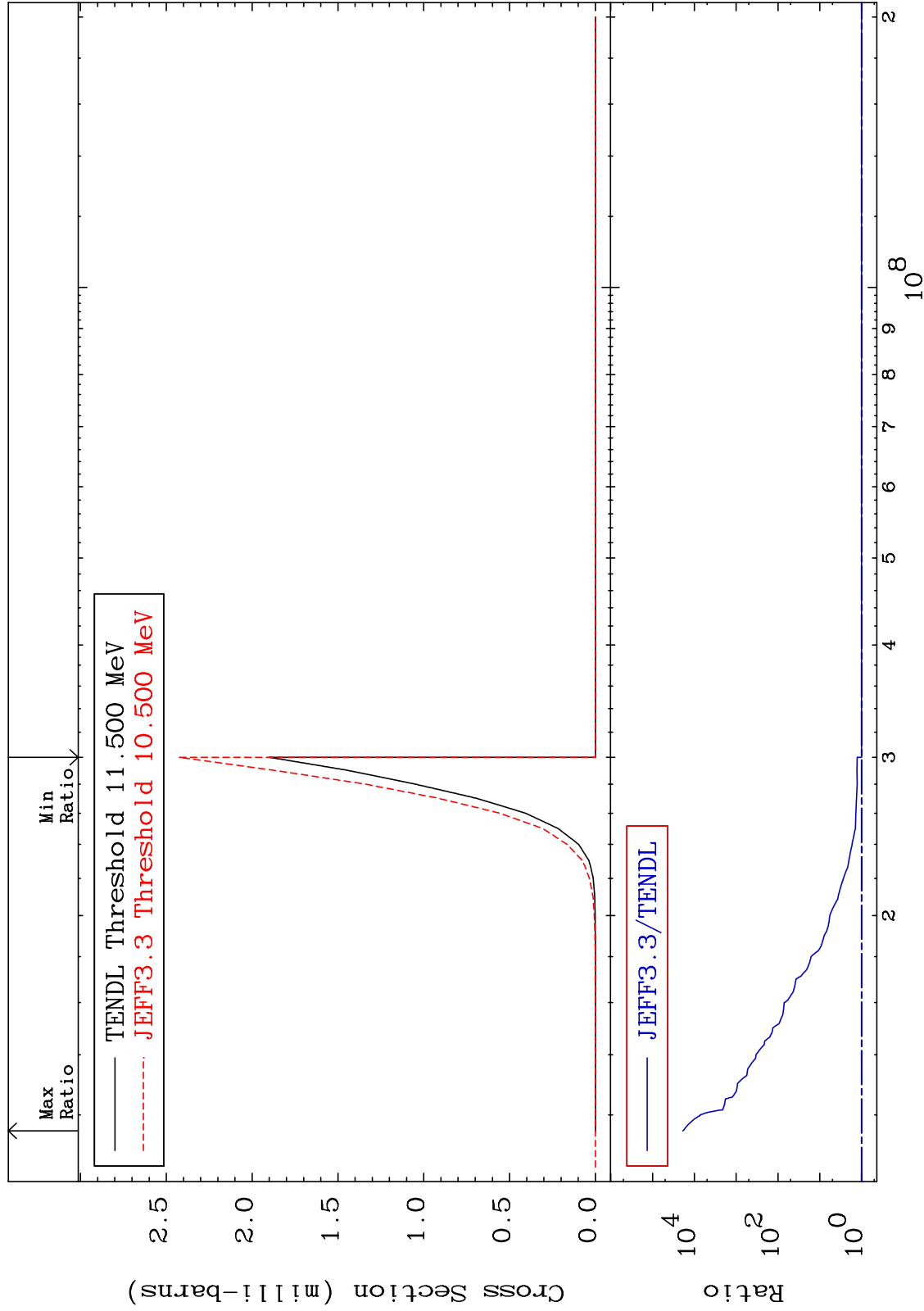
76-0s-188

MAT 7637

(n,2n)  $\alpha$ :74-W -183m7

76-0s-188

Radionuclide Production Cross Section 0.000 To 9999. %



79

Incident Energy (eV)

76-0s-188



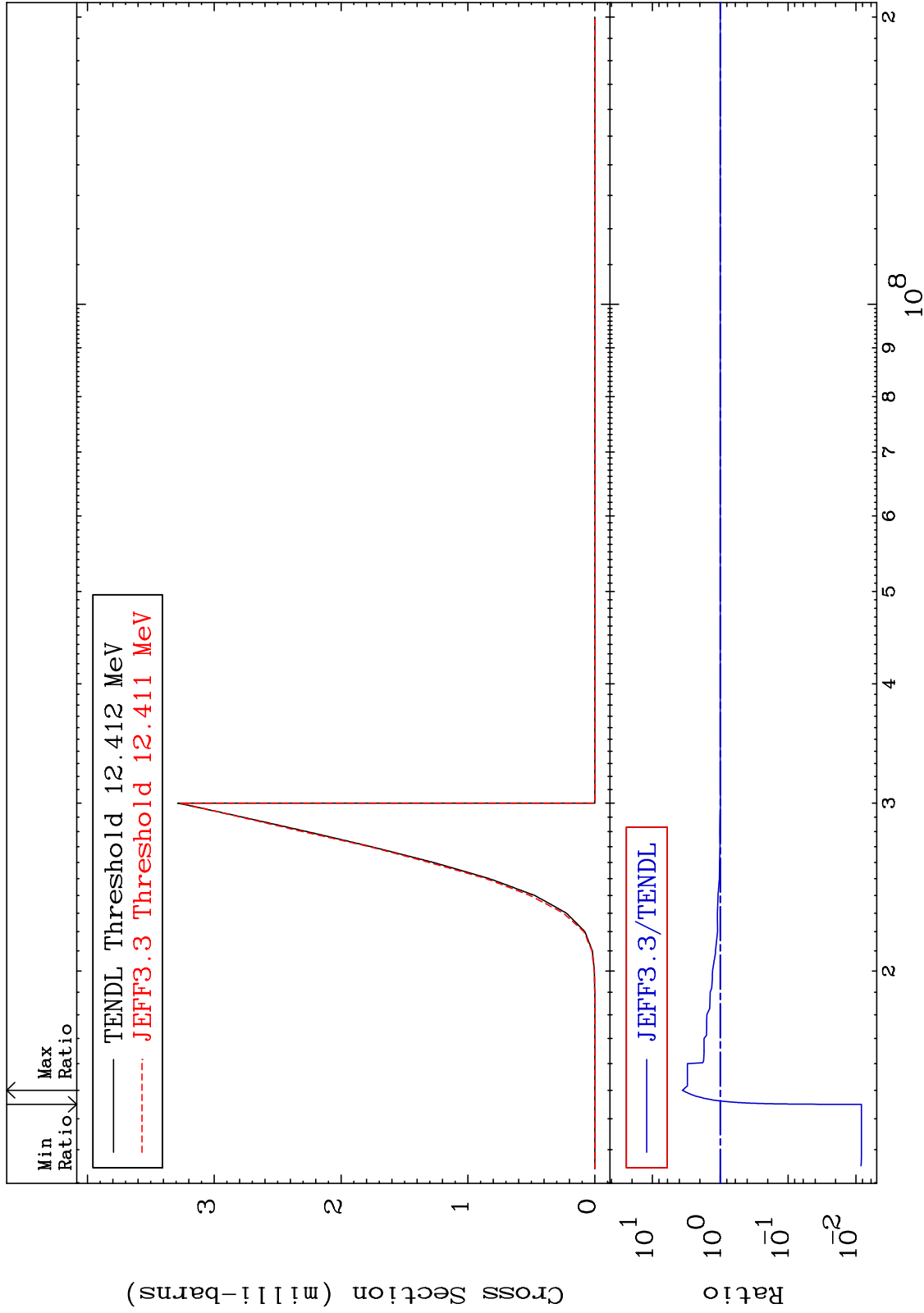
MAT 7637

(n, n') d:75-Re-186g

76-0s-188

Radionuclide Production Cross Section

-99.17 To 260.5 %



80

Incident Energy (eV)

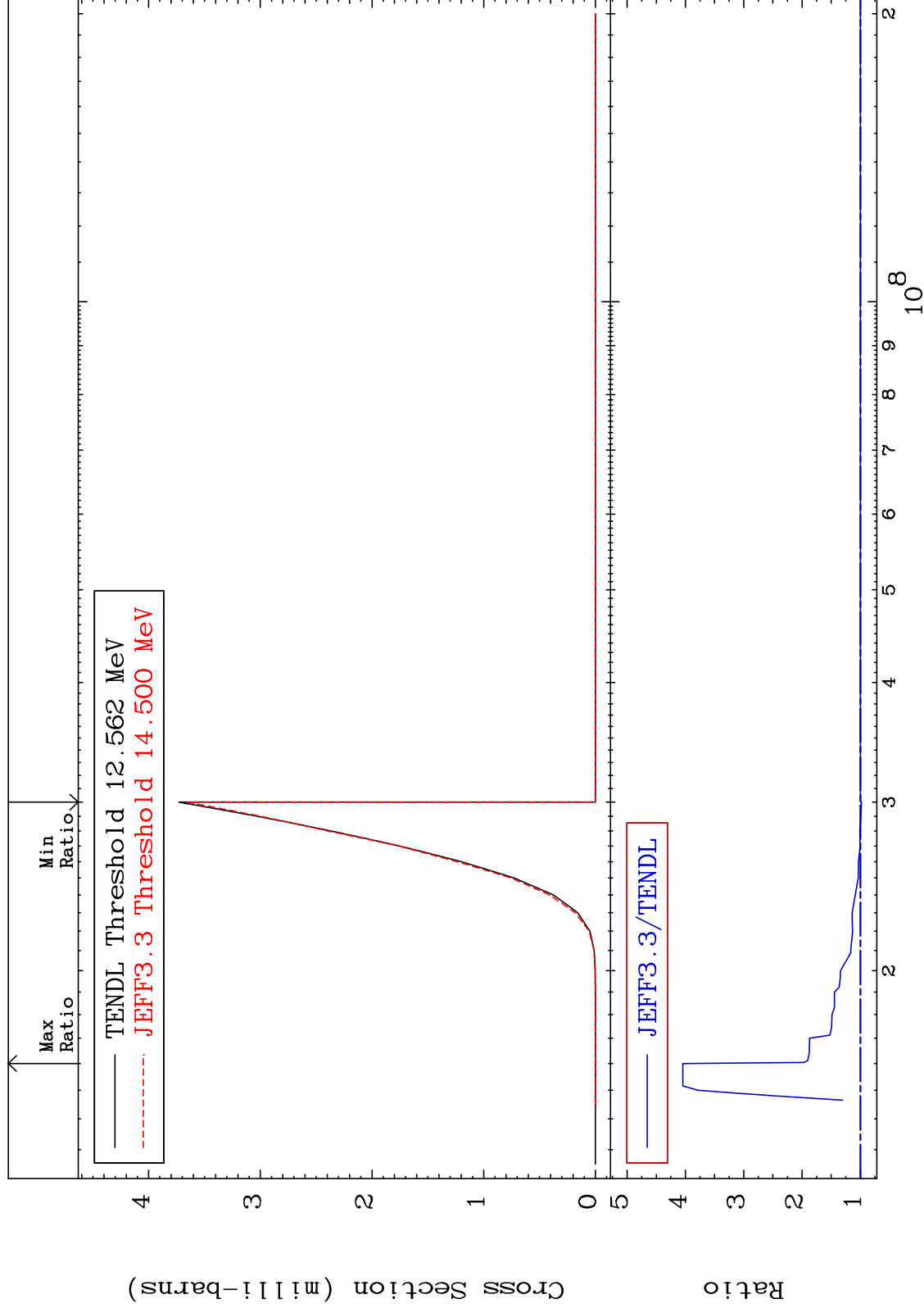
76-0s-188

MAT 7637

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

76-0s-188

Radionuclide Production Cross Section -2.052 To 304.4 %

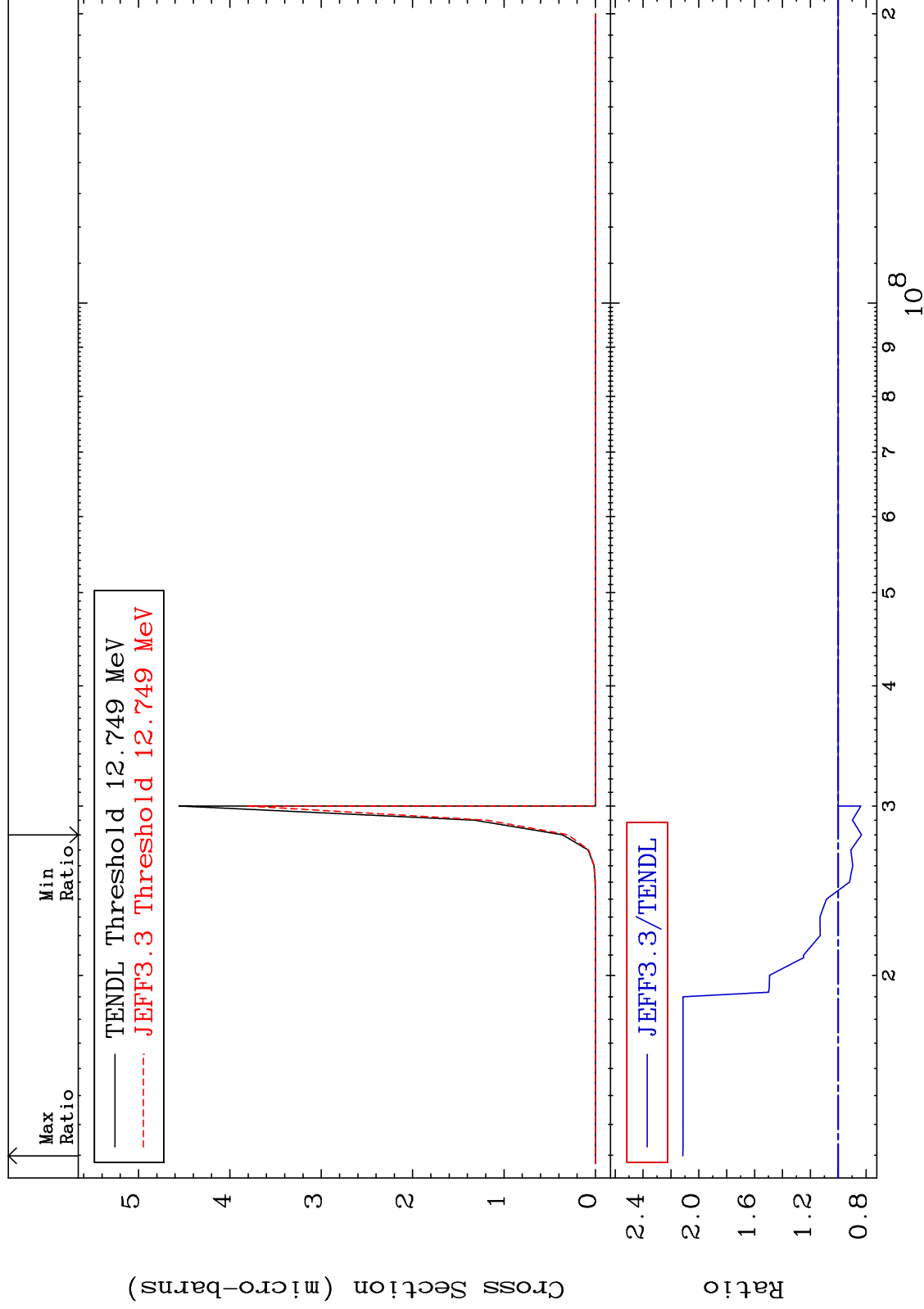


MAT 7637

(n, n') He-3:74-W -185g

76-0s-188

Radionuclide Production Cross Section -16.73 To 111.5 %

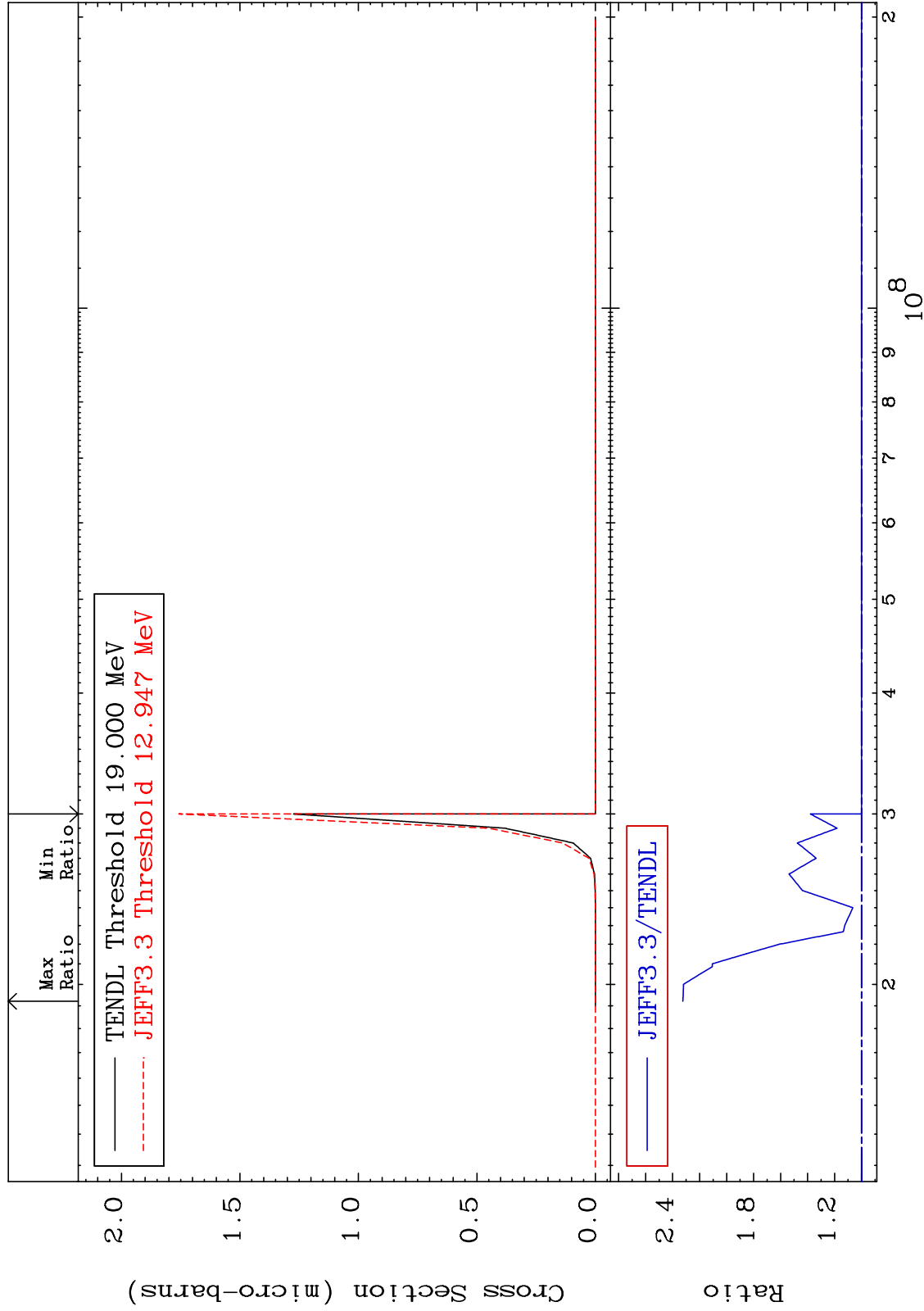


MAT 7637

(n, n') He-3:74-W -185m6

76-0s-188

Radionuclide Production Cross Section 0.000 To 132.4 %



83

Incident Energy (eV)

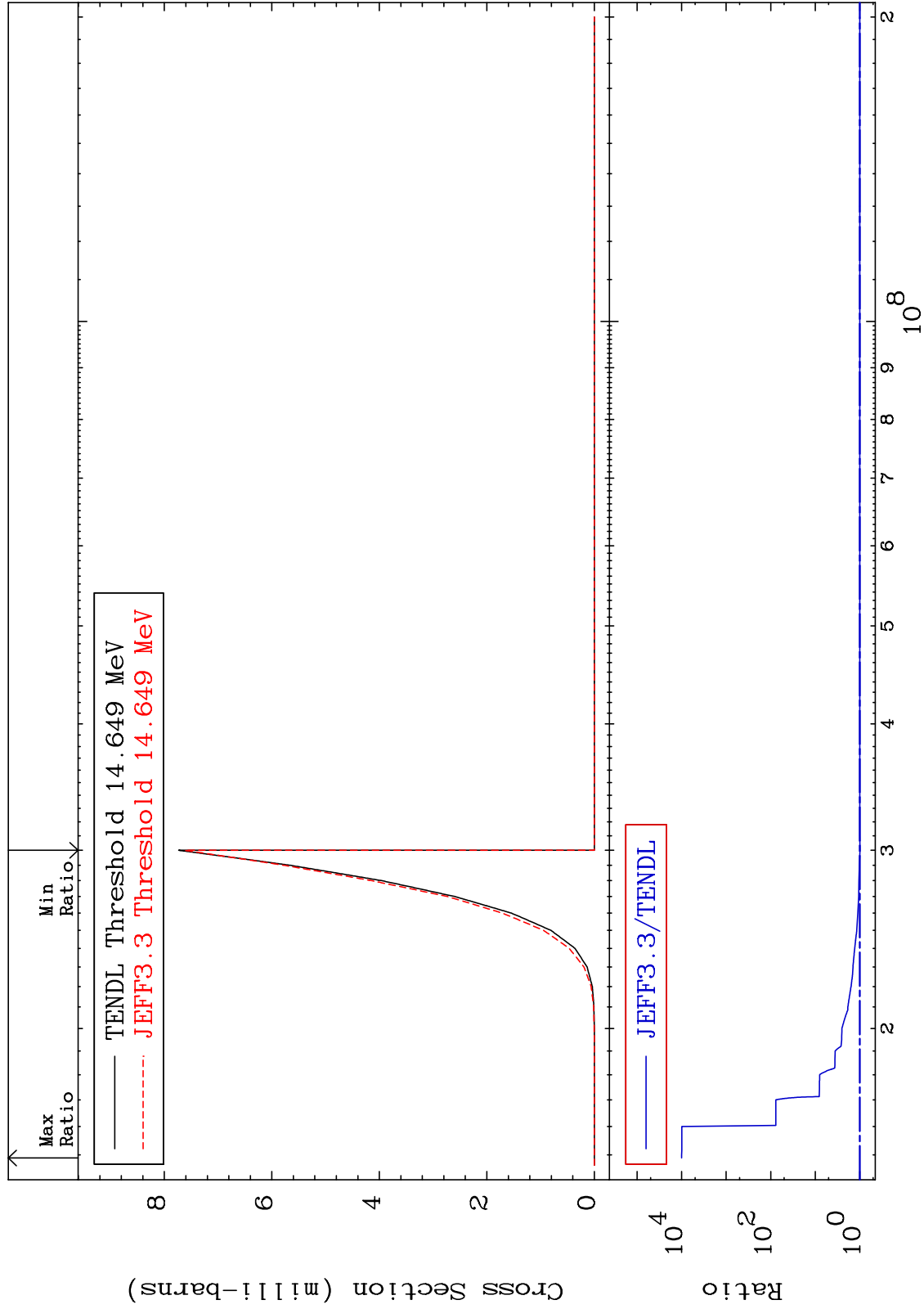
76-0s-188

MAT 7637

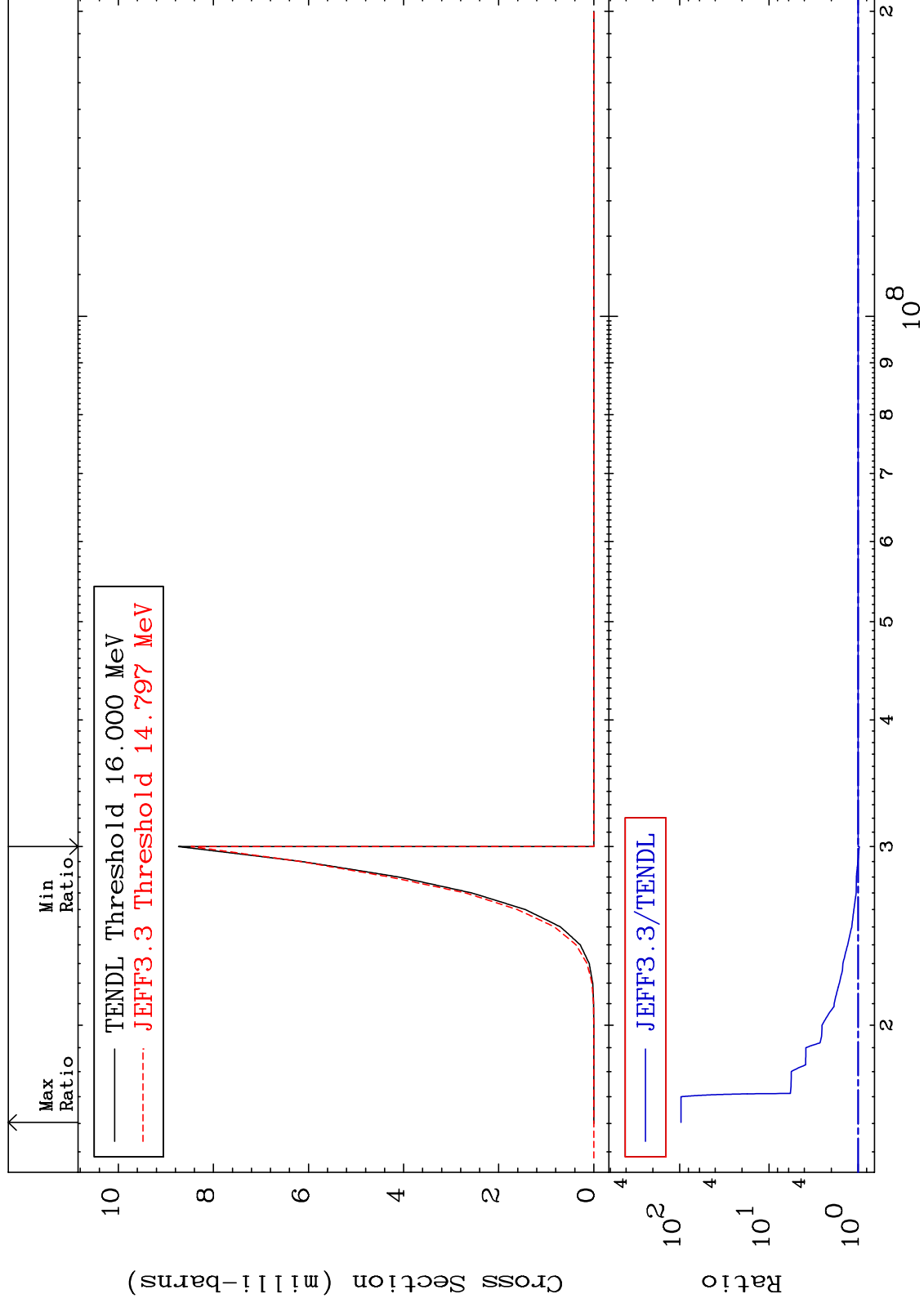
(n,2n) p:75-Re-186g

76-0s-188

Radionuclide Production Cross Section -1.415 To 9999. %



Radionuclide Production Cross Section -3.027 To 9575. %



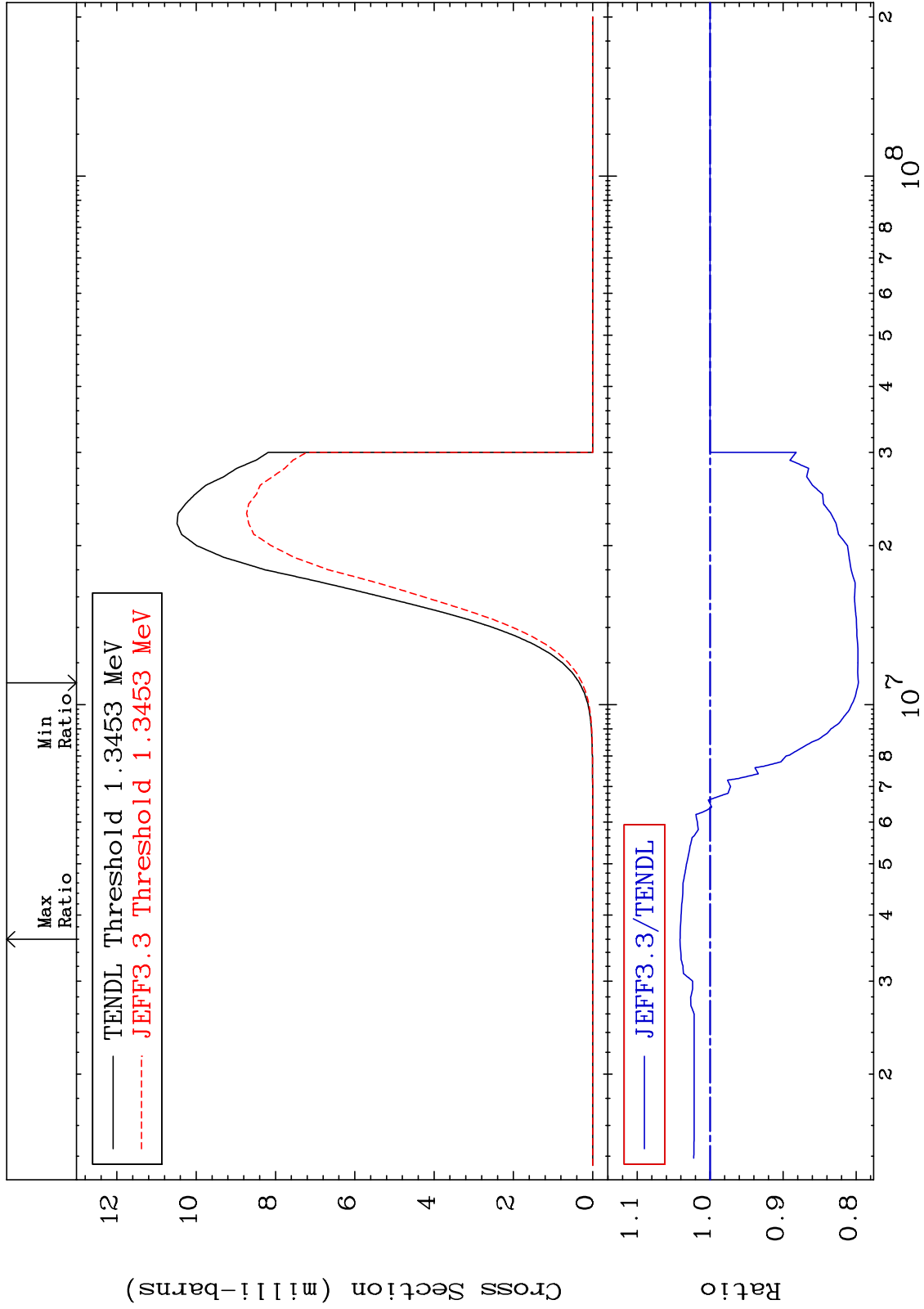
MAT 7637

(n, p) : 75-Re-188g

76-Os-188

Radionuclide Production Cross Section

-20.32 To 4.125 %



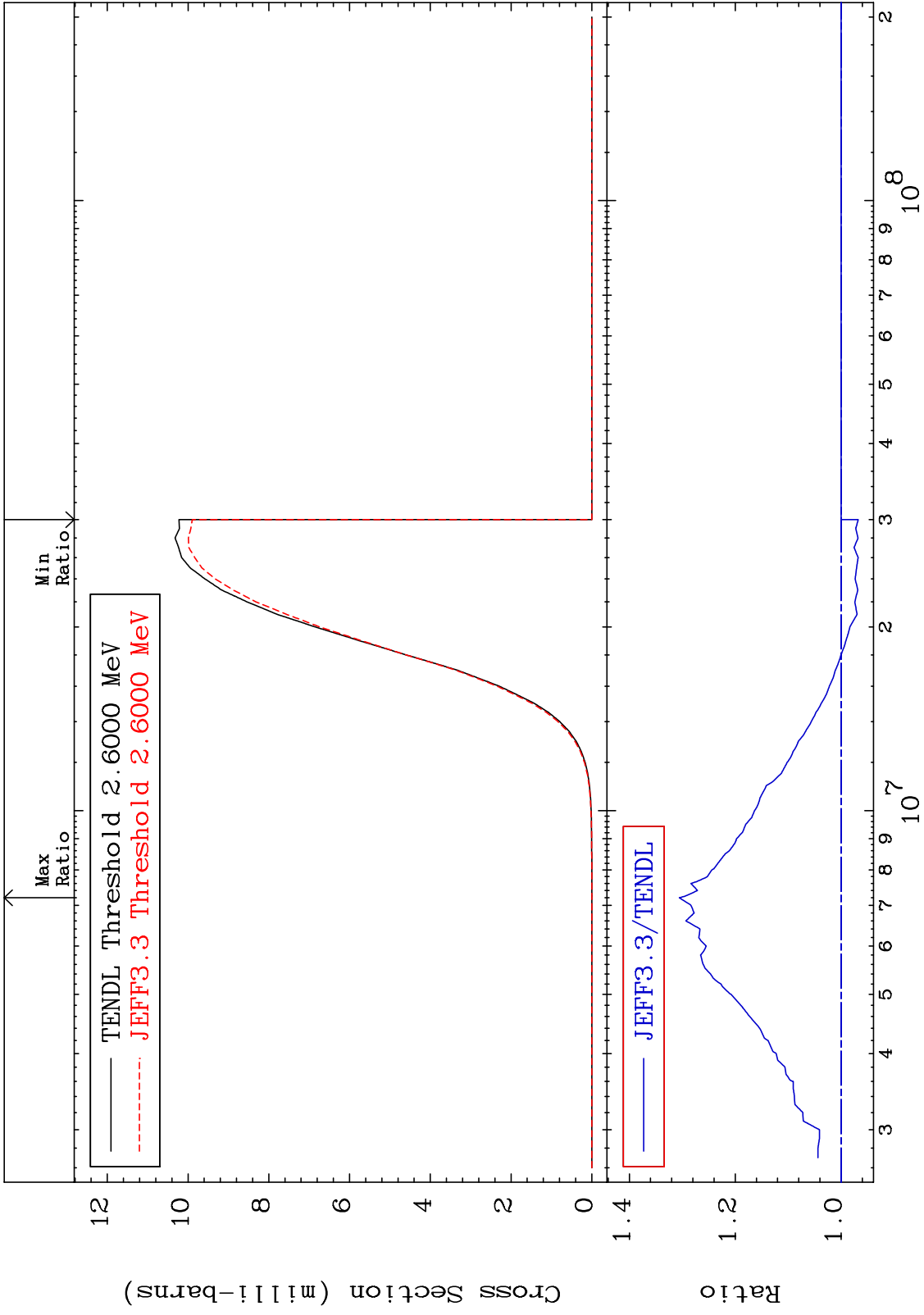
MAT 7637

(n, p) : 75-Re-188m7

76-0s-188

Radionuclide Production Cross Section

-3.239 To 30.55 %



87

Incident Energy (eV)

76-0s-188



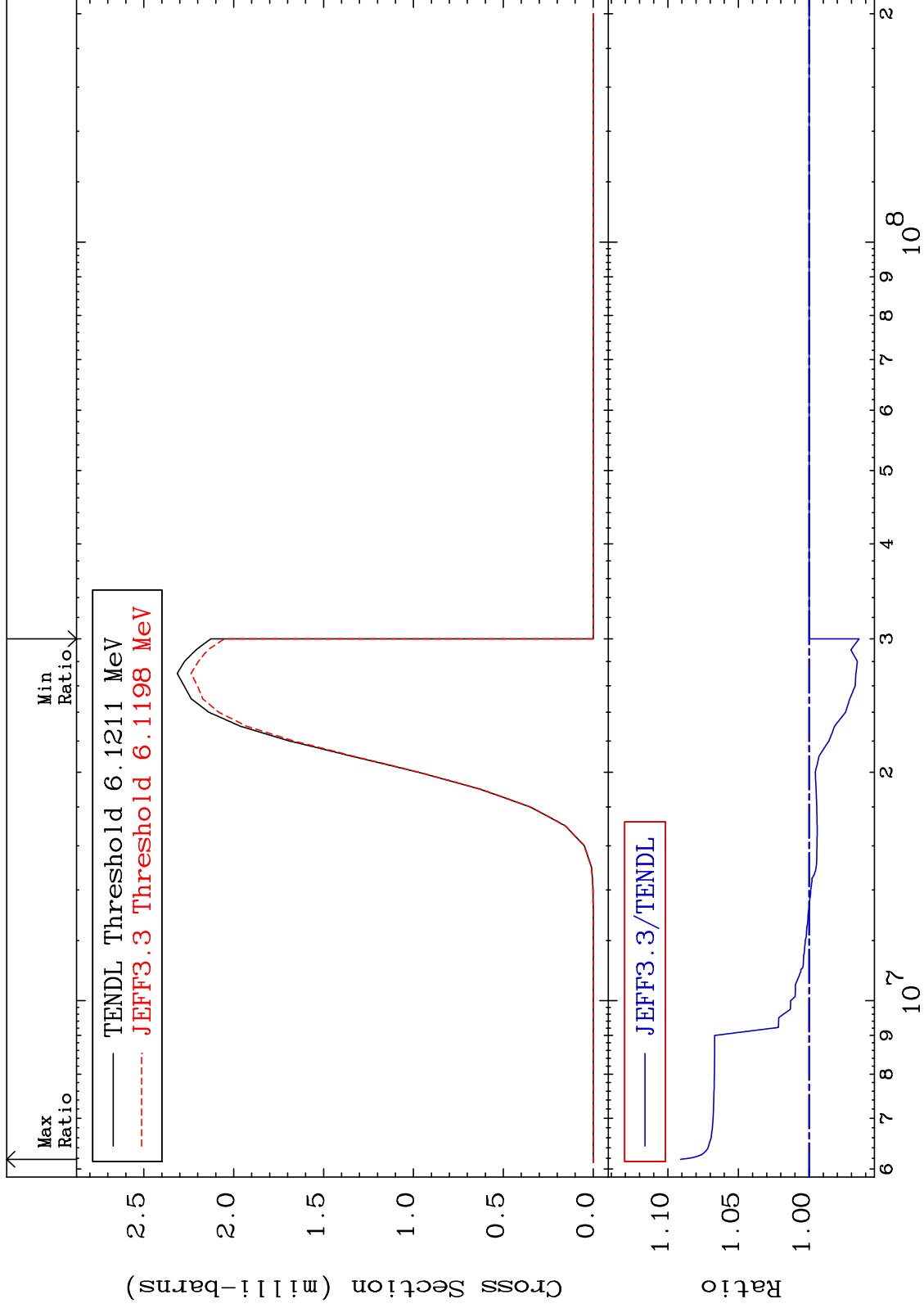
MAT 7637

(n, t): 75-Re-186g

76-0s-188

Radionuclide Production Cross Section

-3.542 To 9.092 %



MAT 7637

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

76-Os-188

Radionuclide Production Cross Section -4.198 To 44.83 %

