

Program Complot  
(Version 2018-1)

by

Dermott E. Cullen  
(Present Contact Information)

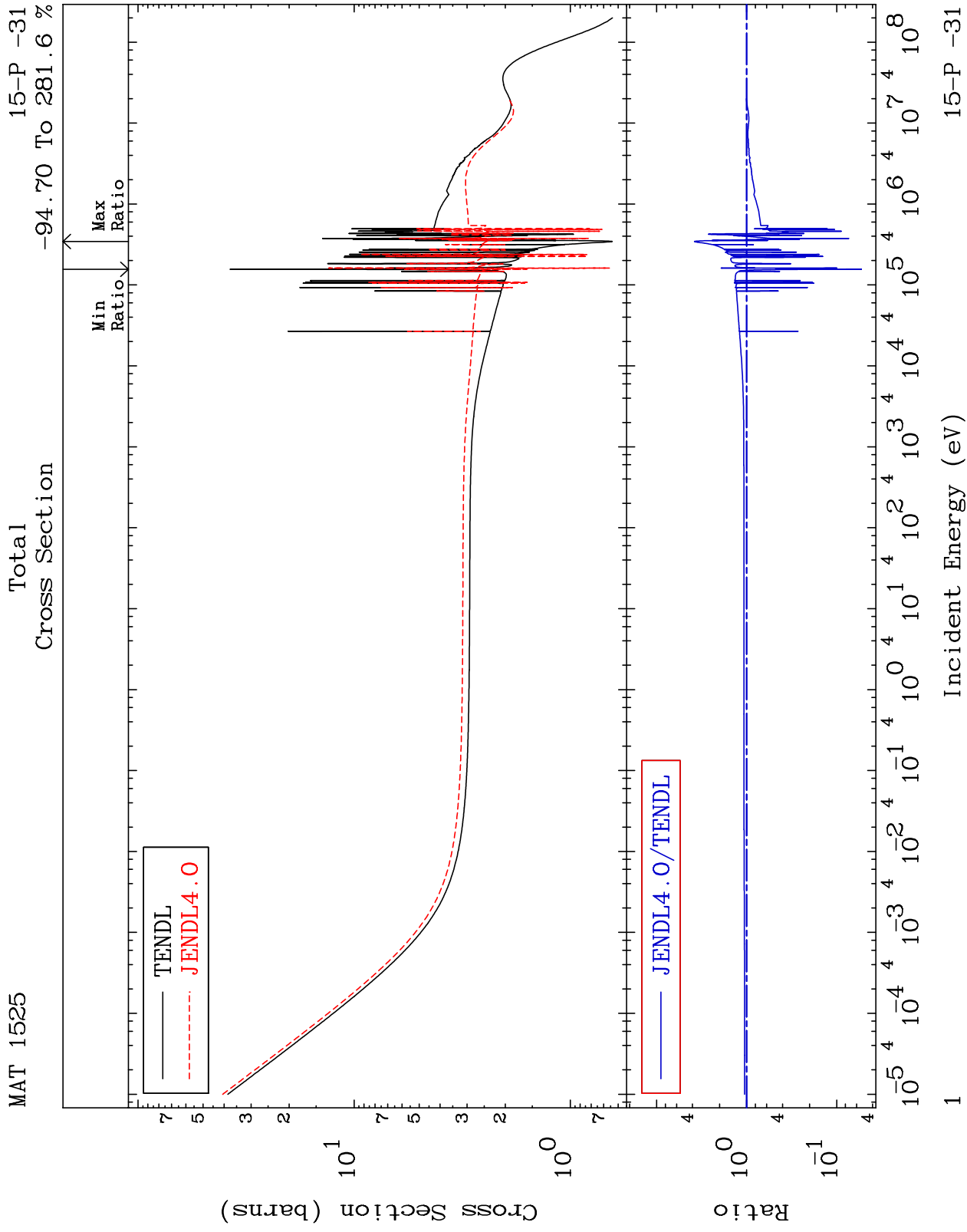
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U.S.A.

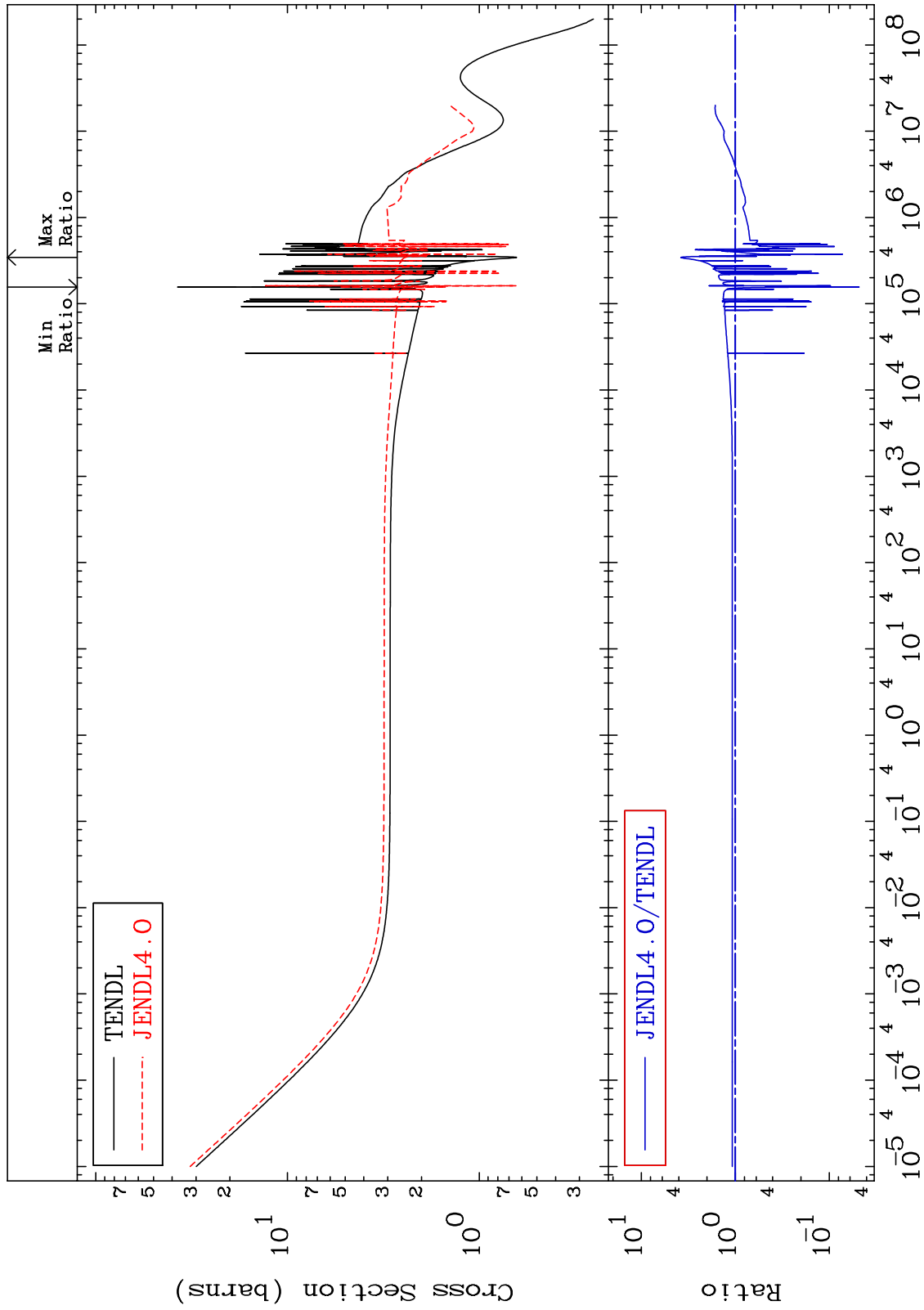
Tele: 925-443-1911

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

Press Mouse Button to Start



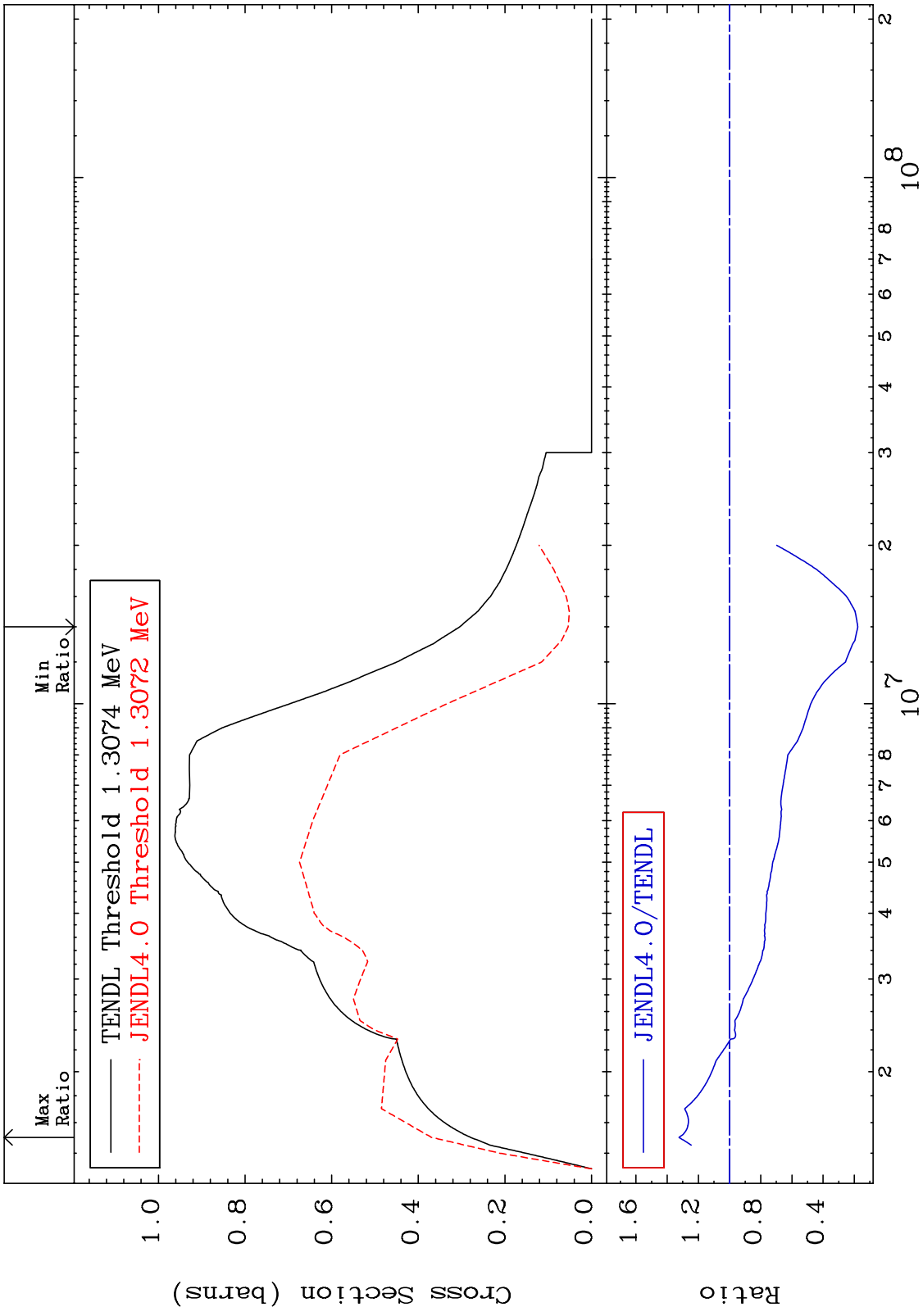
MAT 1525 Elastic Cross Section 15-P -31 -95.18 To 281.7 %

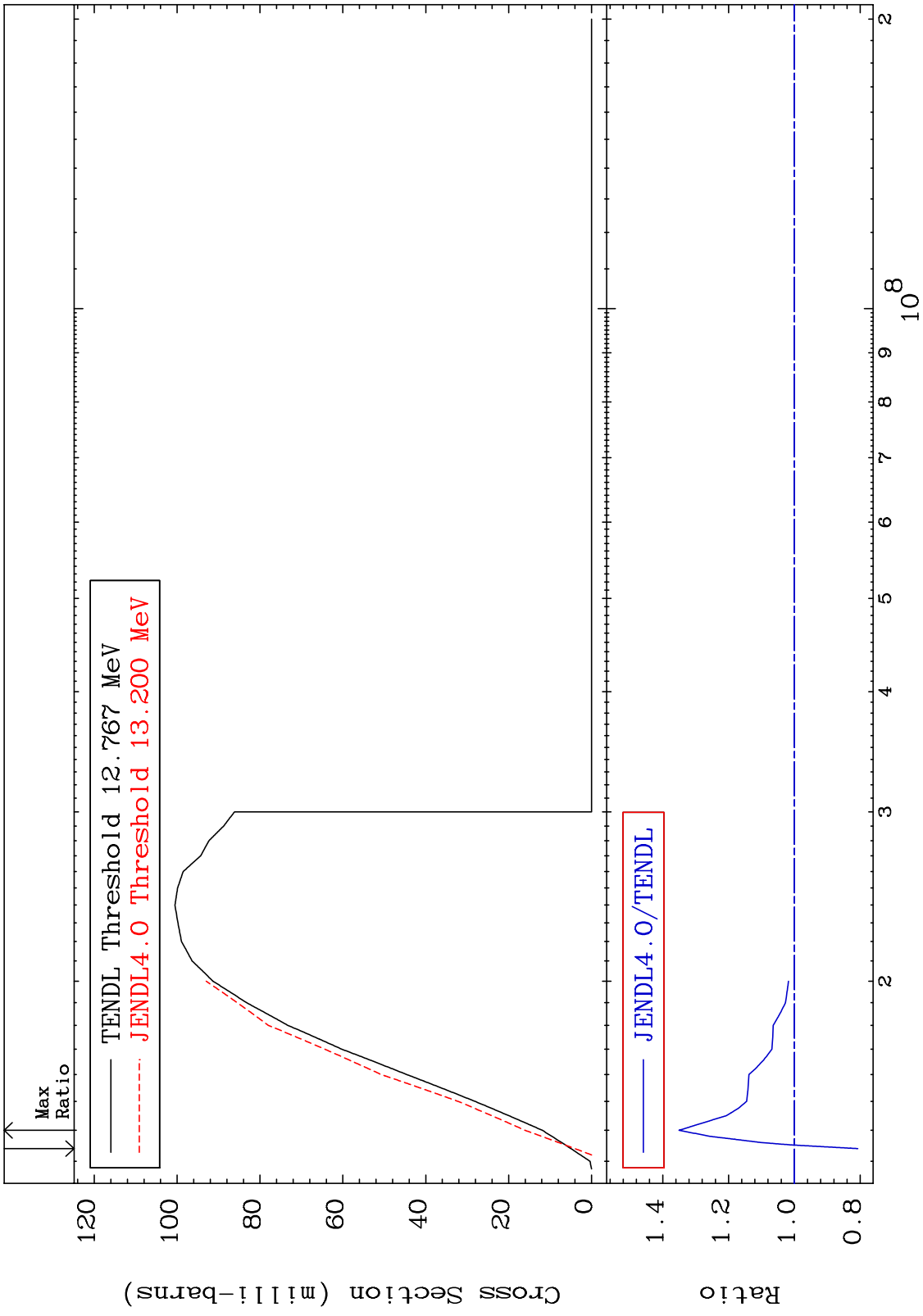


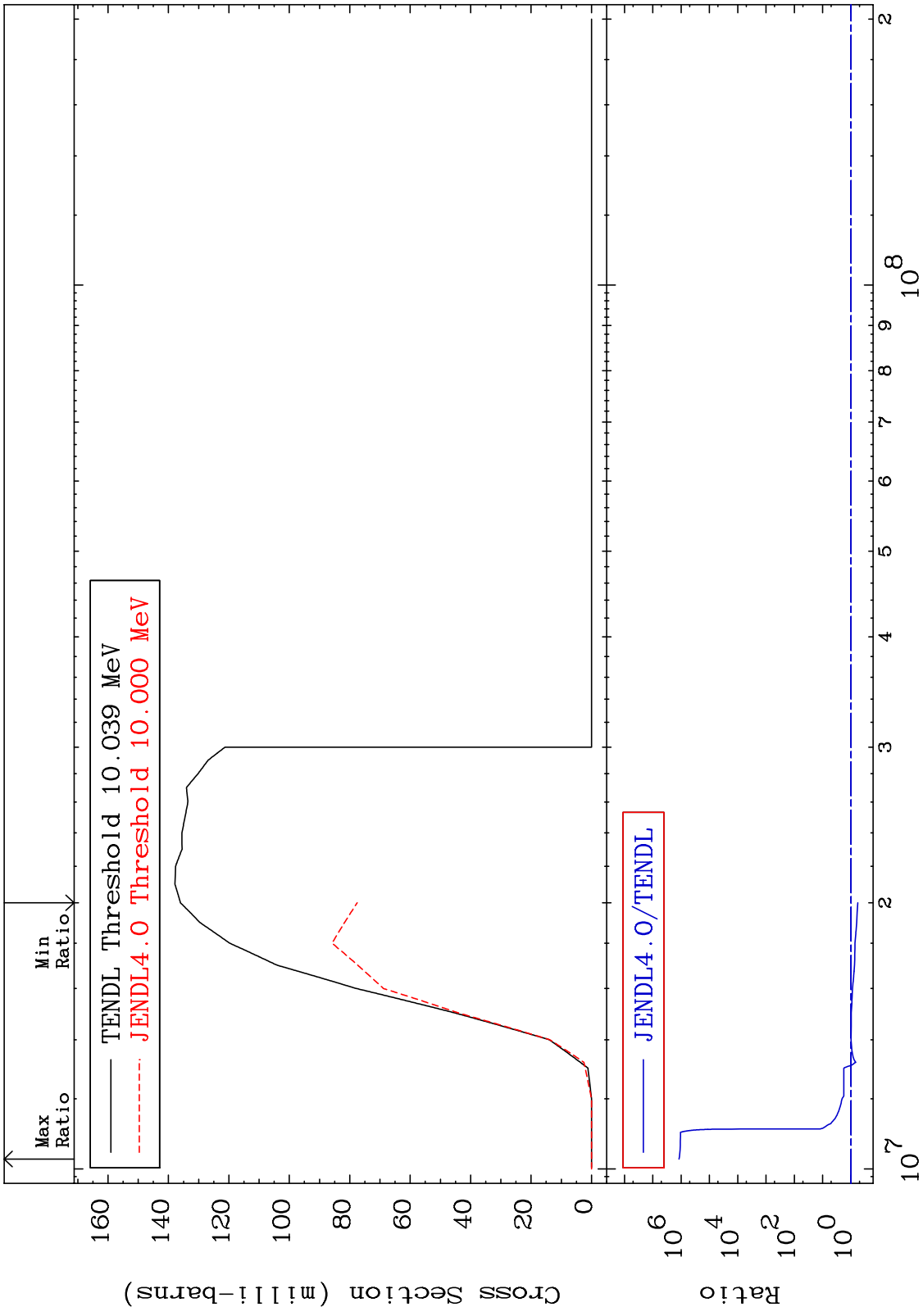
15-P -31

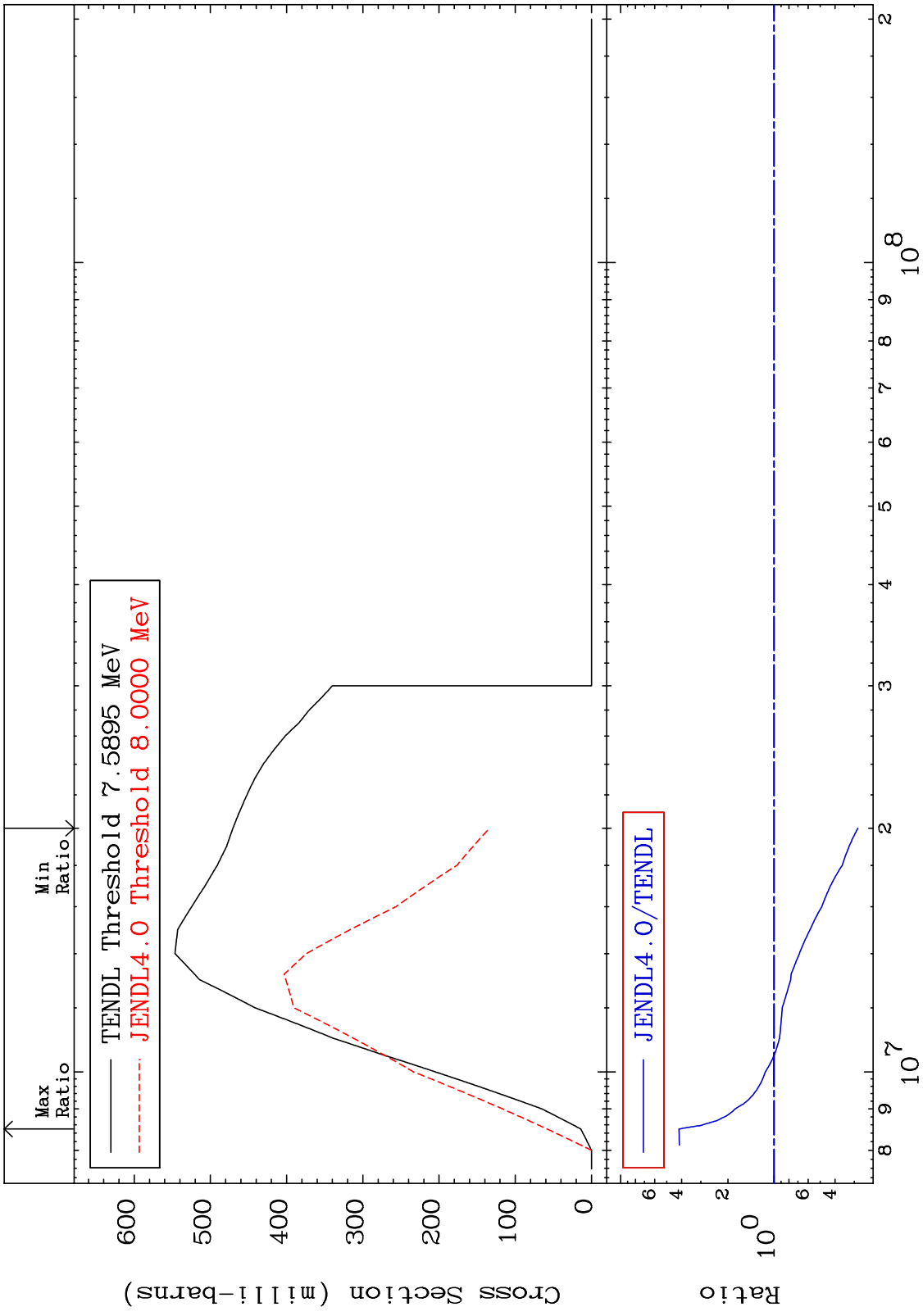
Incident Energy (eV)

MAT 1525 Inelastic Cross Section 15-P -31  
 -82.27 To 32.39 %

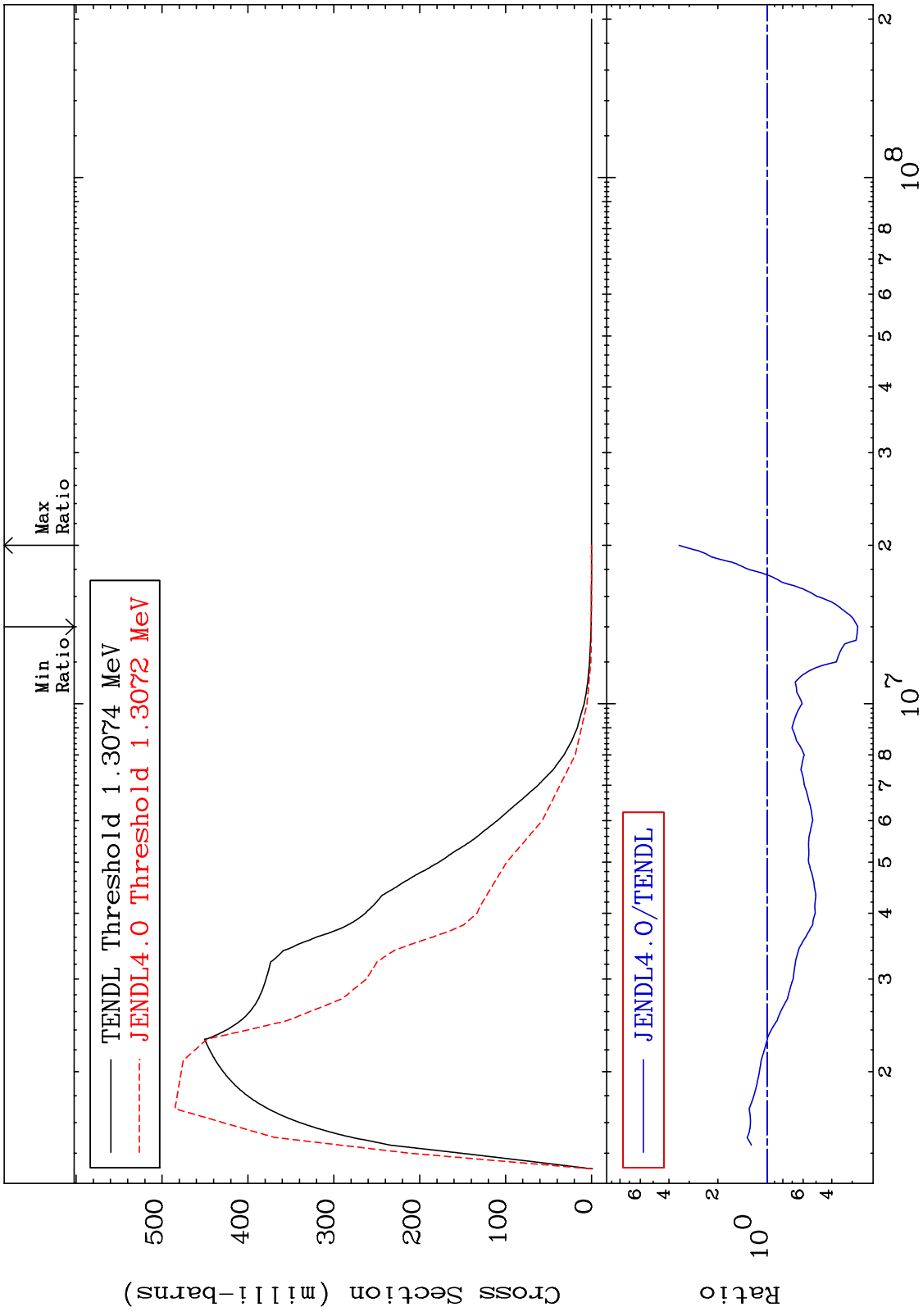








MAT 1525 MT= 51 (n,n') Level Cross Section -72.31 To 246.7 % 15-P -31

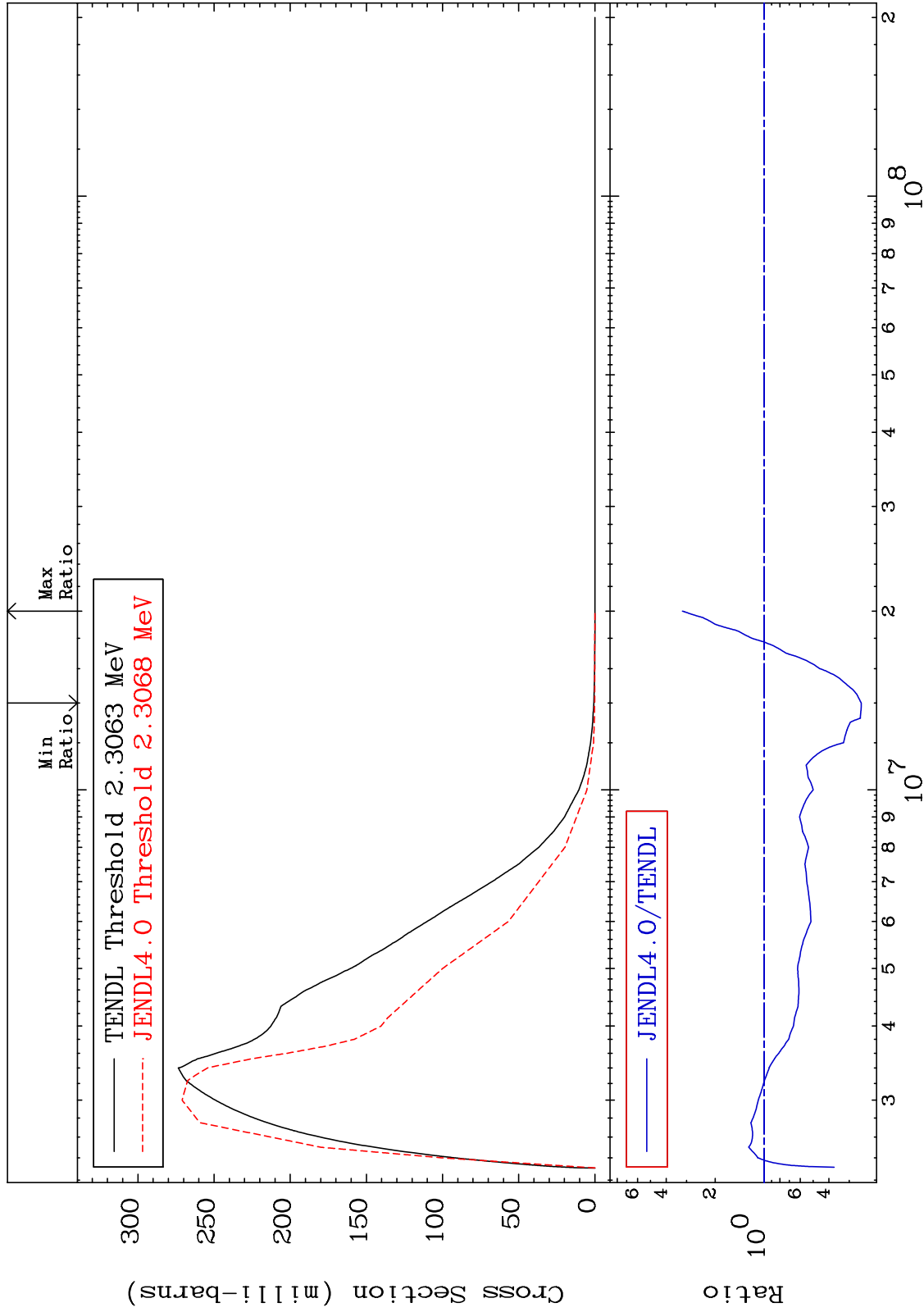




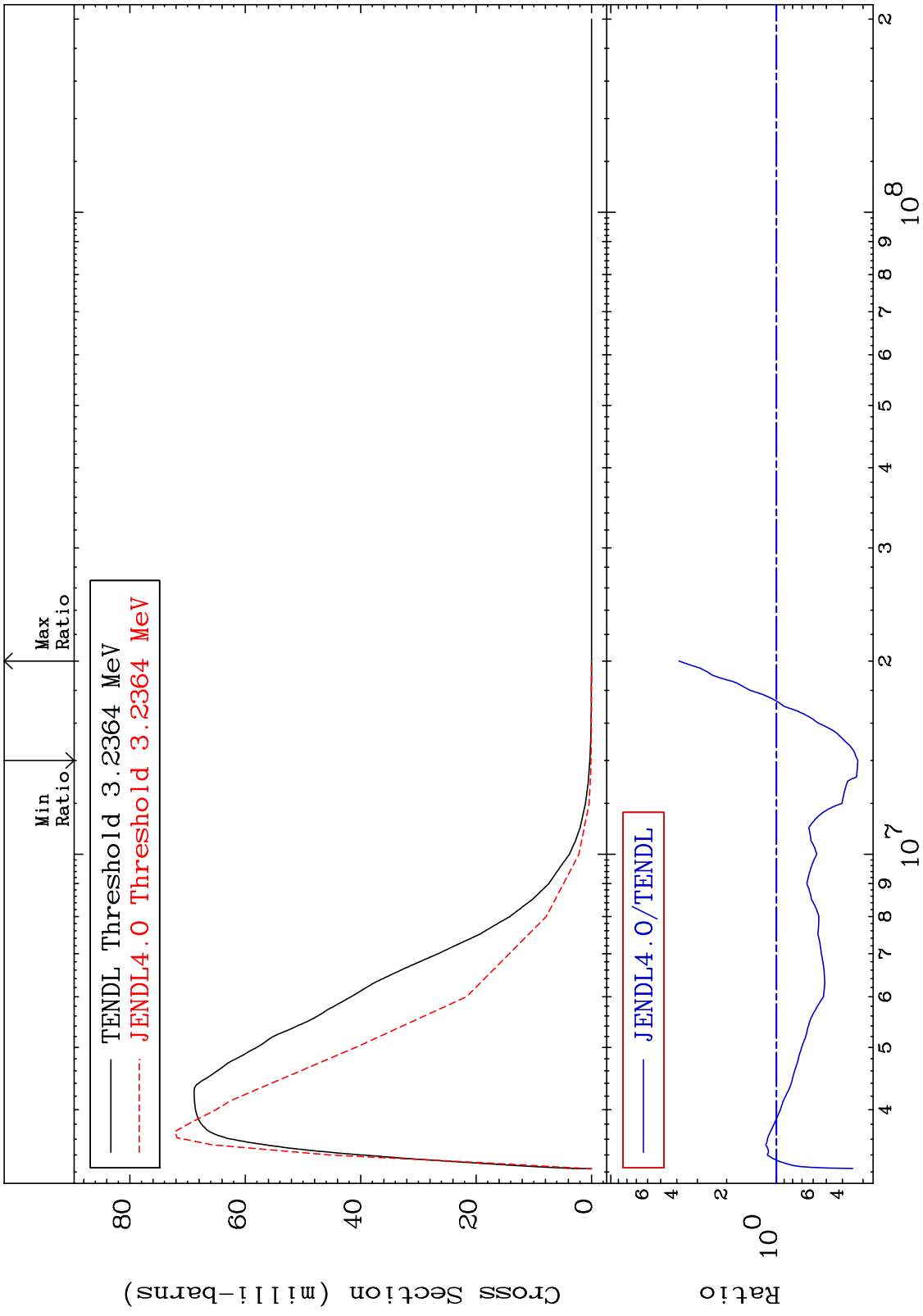
MAT 1525

MT= 52 (n,n') Level  
Cross Section

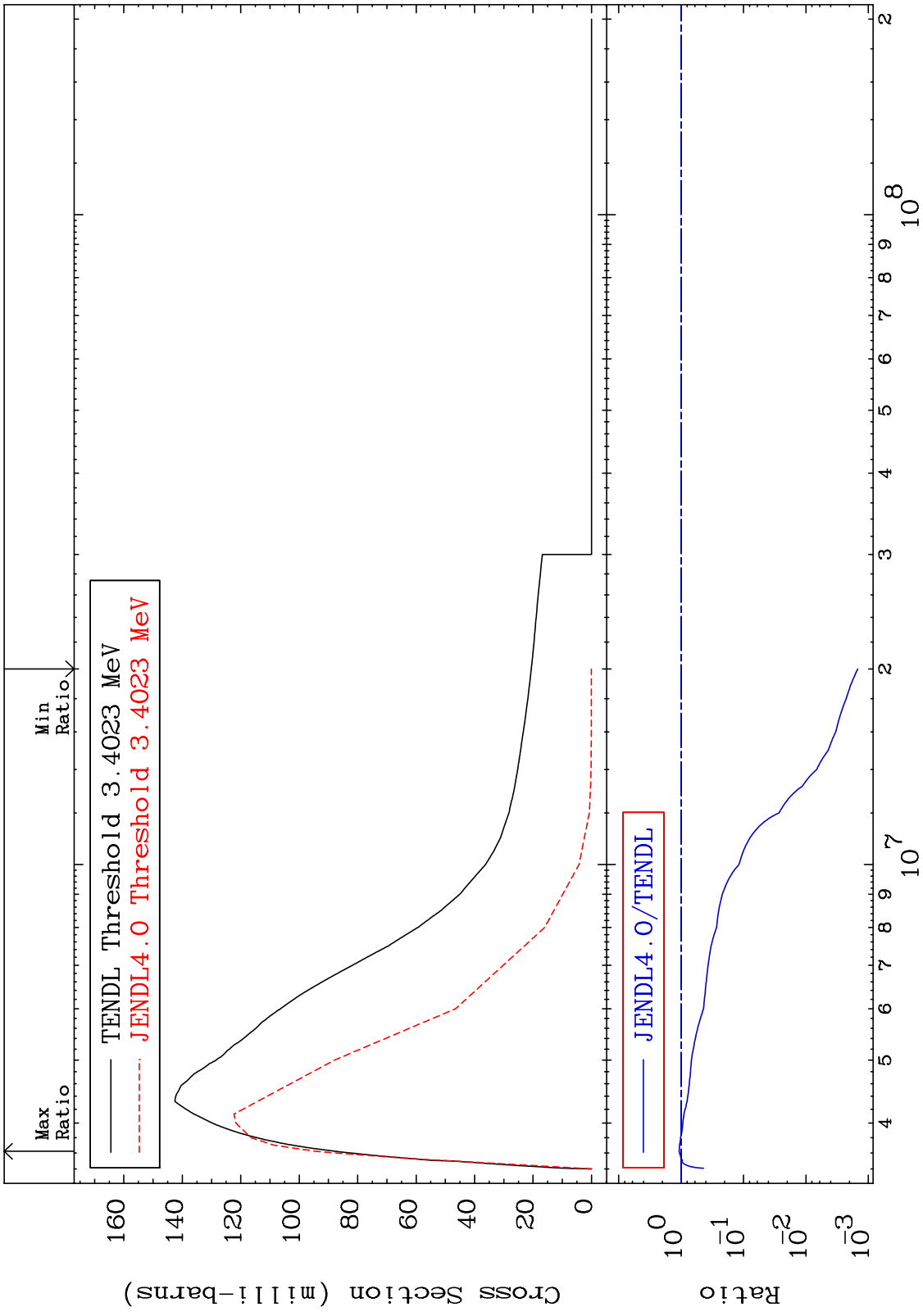
15-P -31  
-74.71 To 217.7 %



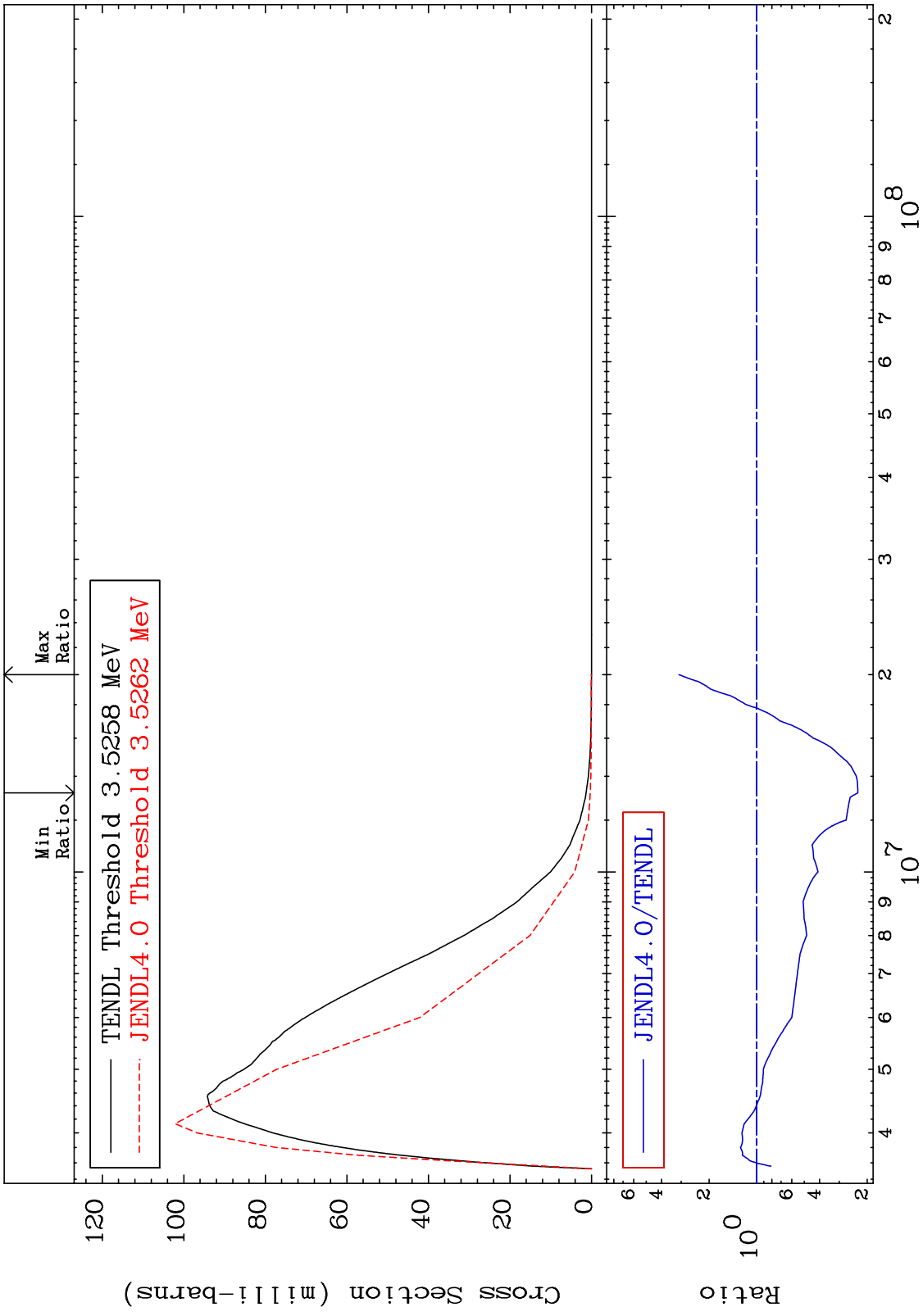
MAT 1525 MT= 53 (n,n') Level Cross Section -67.71 To 287.3 % 15-P -31



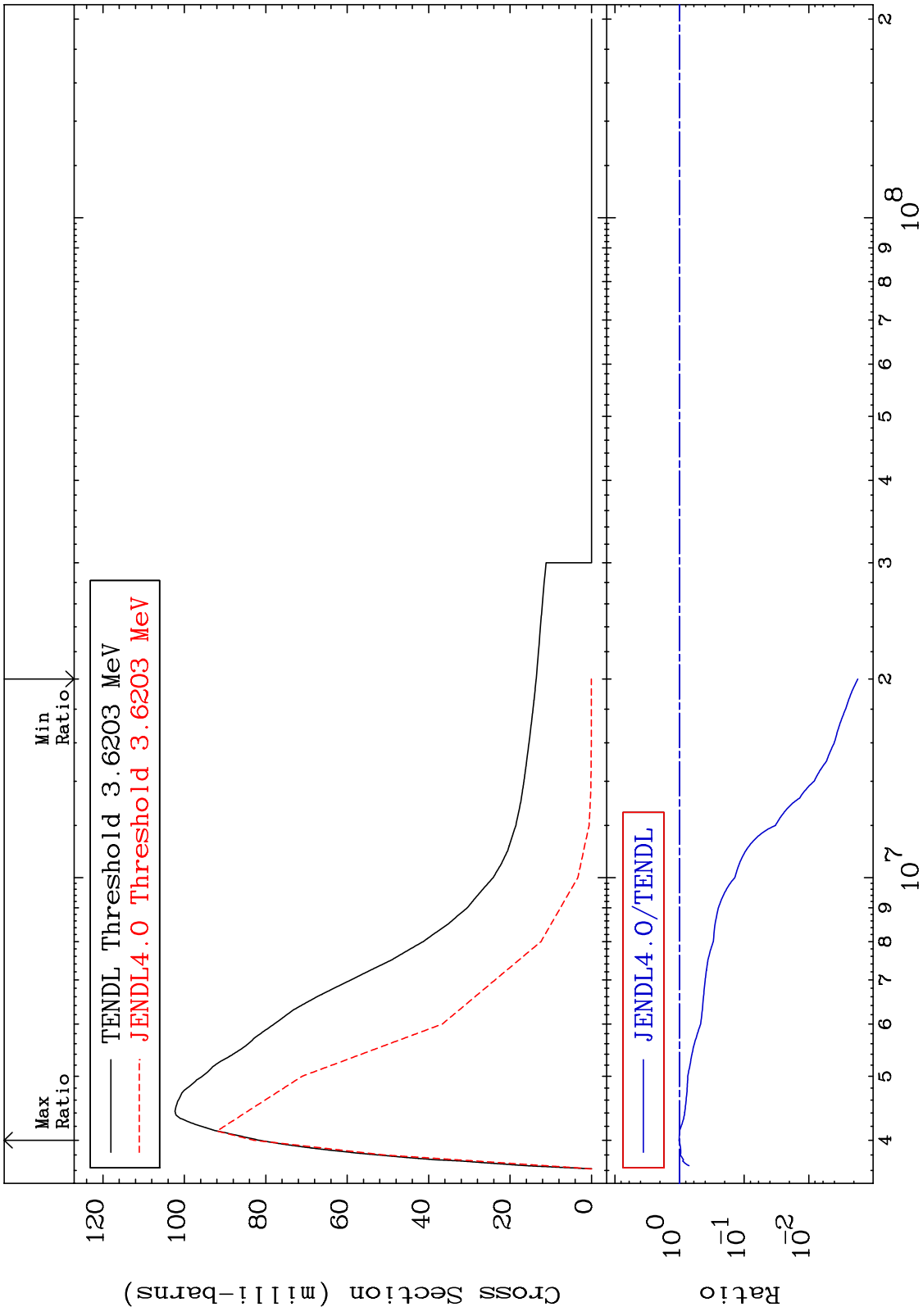
MAT 1525 MT= 54 (n,n') Level Cross Section -99.85 To 7.715 % 15-P -31

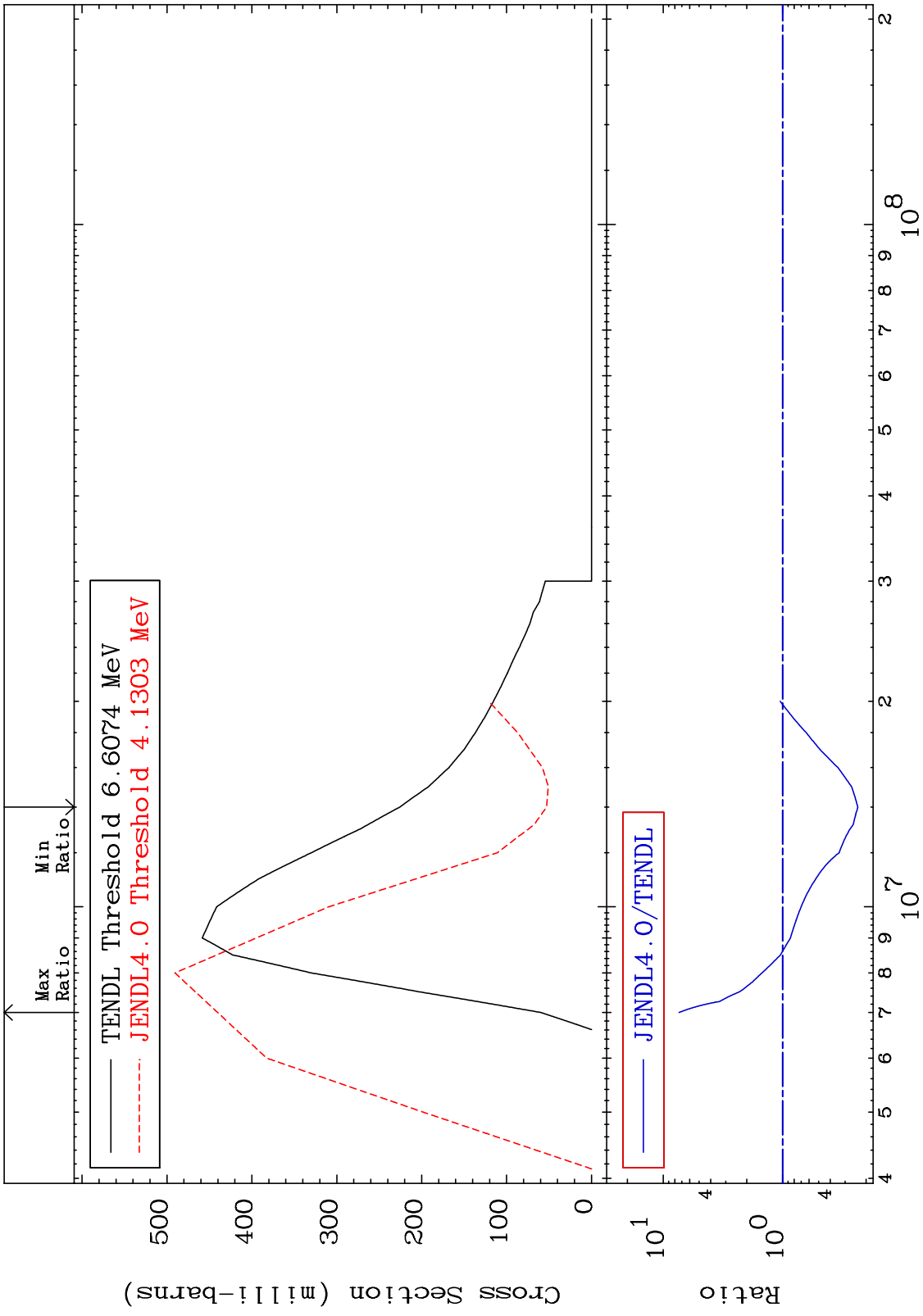


MAT 1525 MT= 55 (n,n') Level Cross Section -77.10 To 209.8 % 15-P -31



MAT 1525 MT= 56 (n,n') Level Cross Section -99.83 To 1.635 % 15-P -31





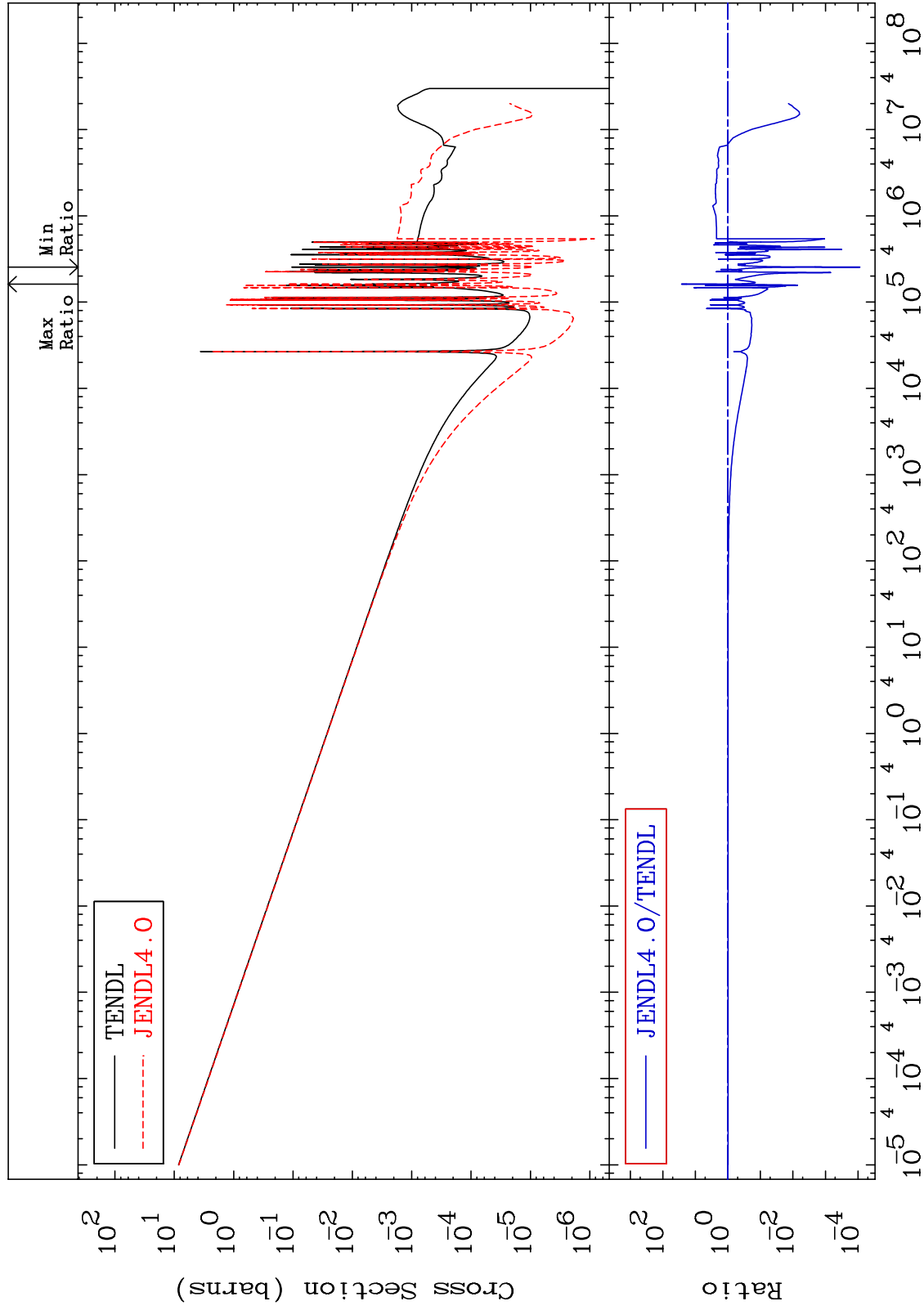
MAT 1525

(n,  $\gamma$ )

15-P -31

Cross Section

-99.99 To 2571. %

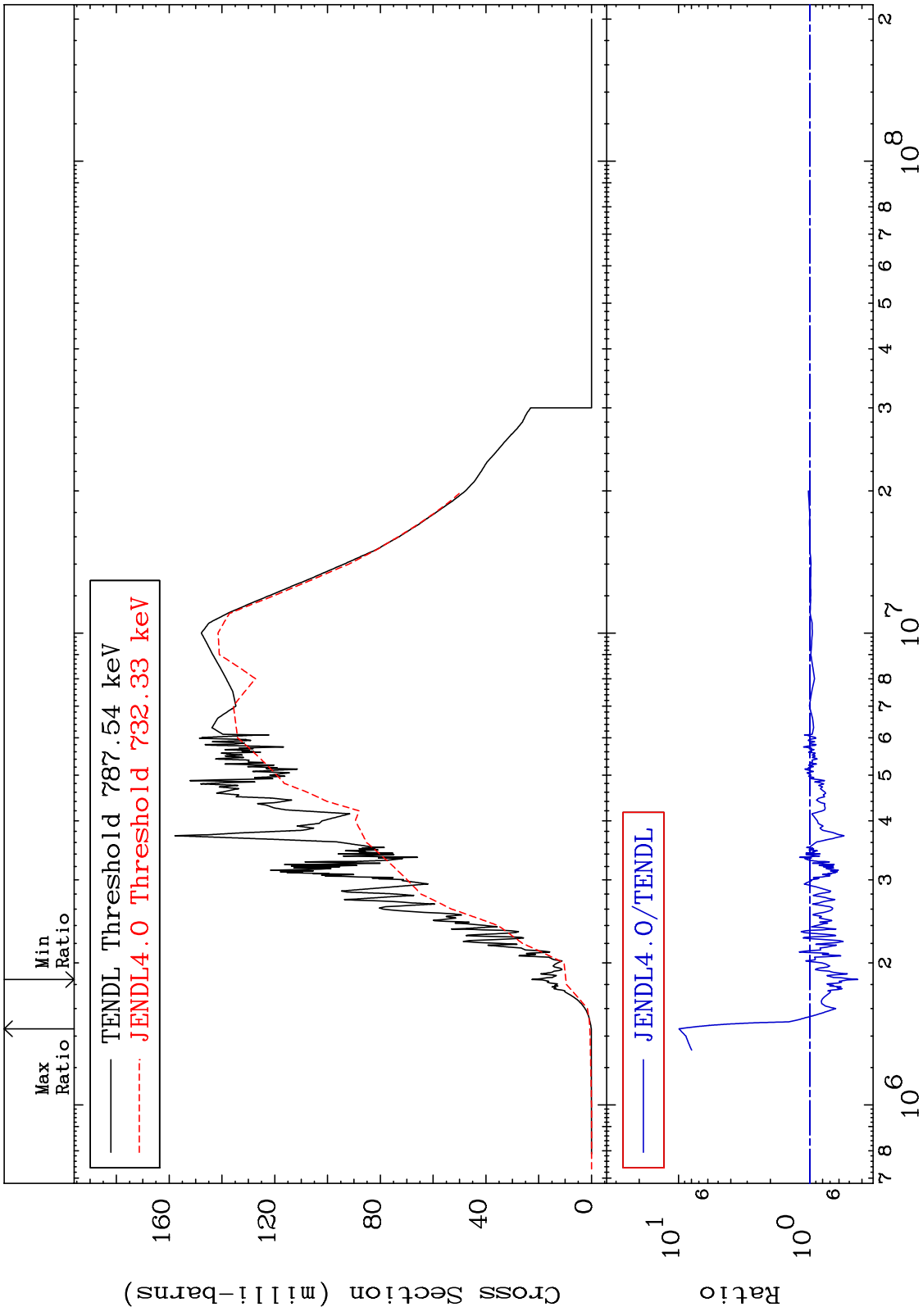


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Incident Energy (eV)

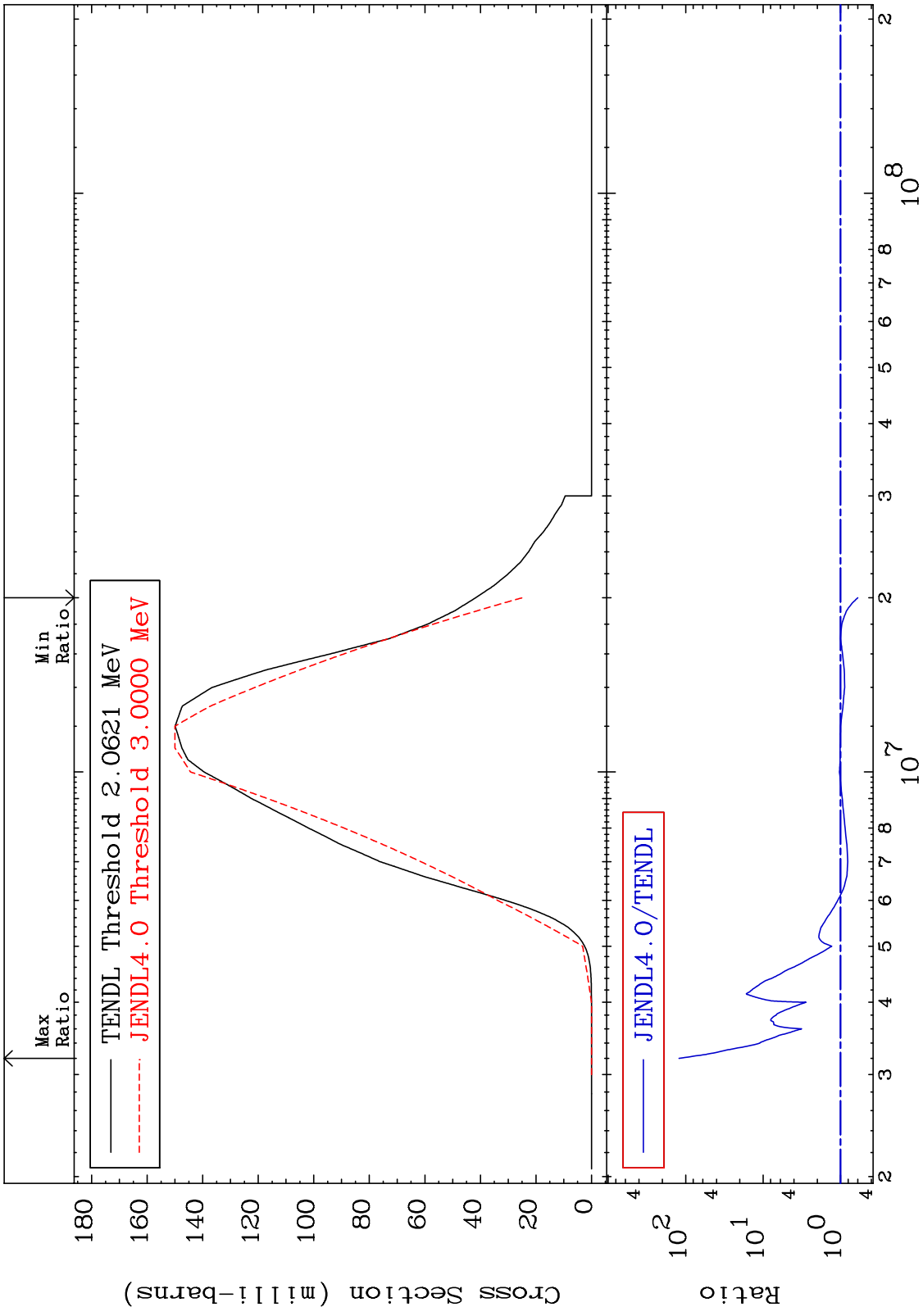
15-P -31

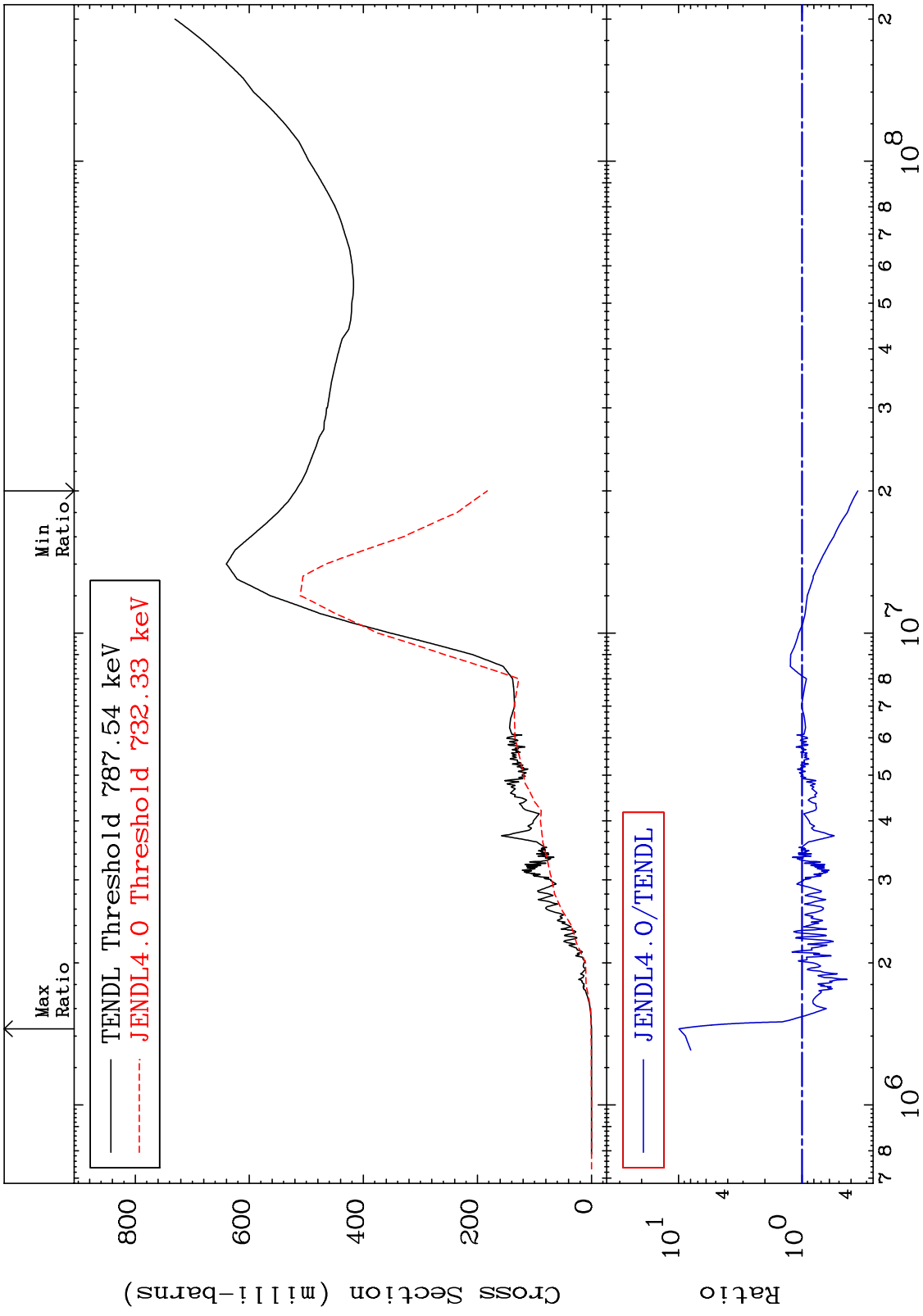
MAT 1525 (n,p) 15-P -31  
Cross Section -56.96 To 892.6 %

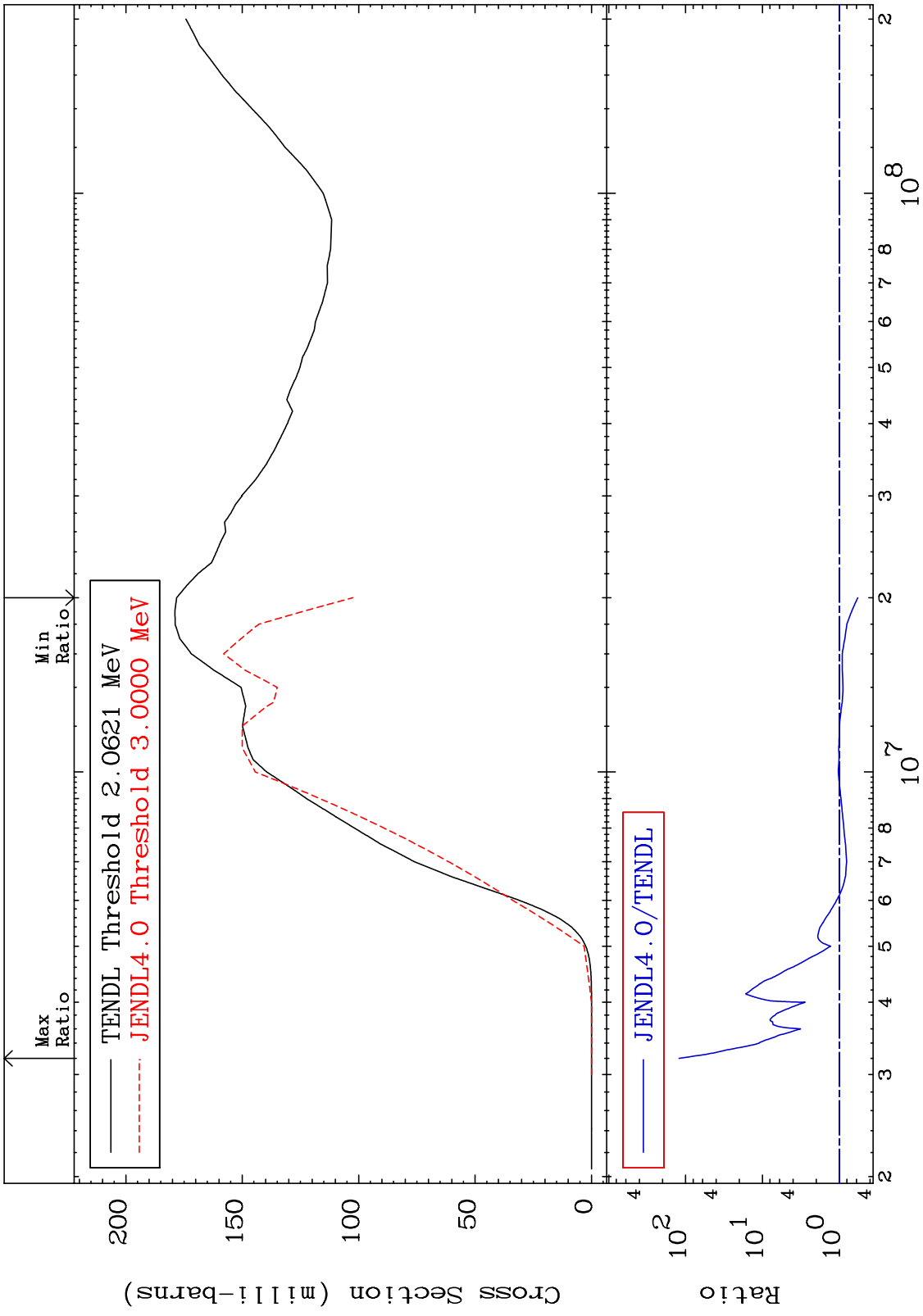


15 15-P -31









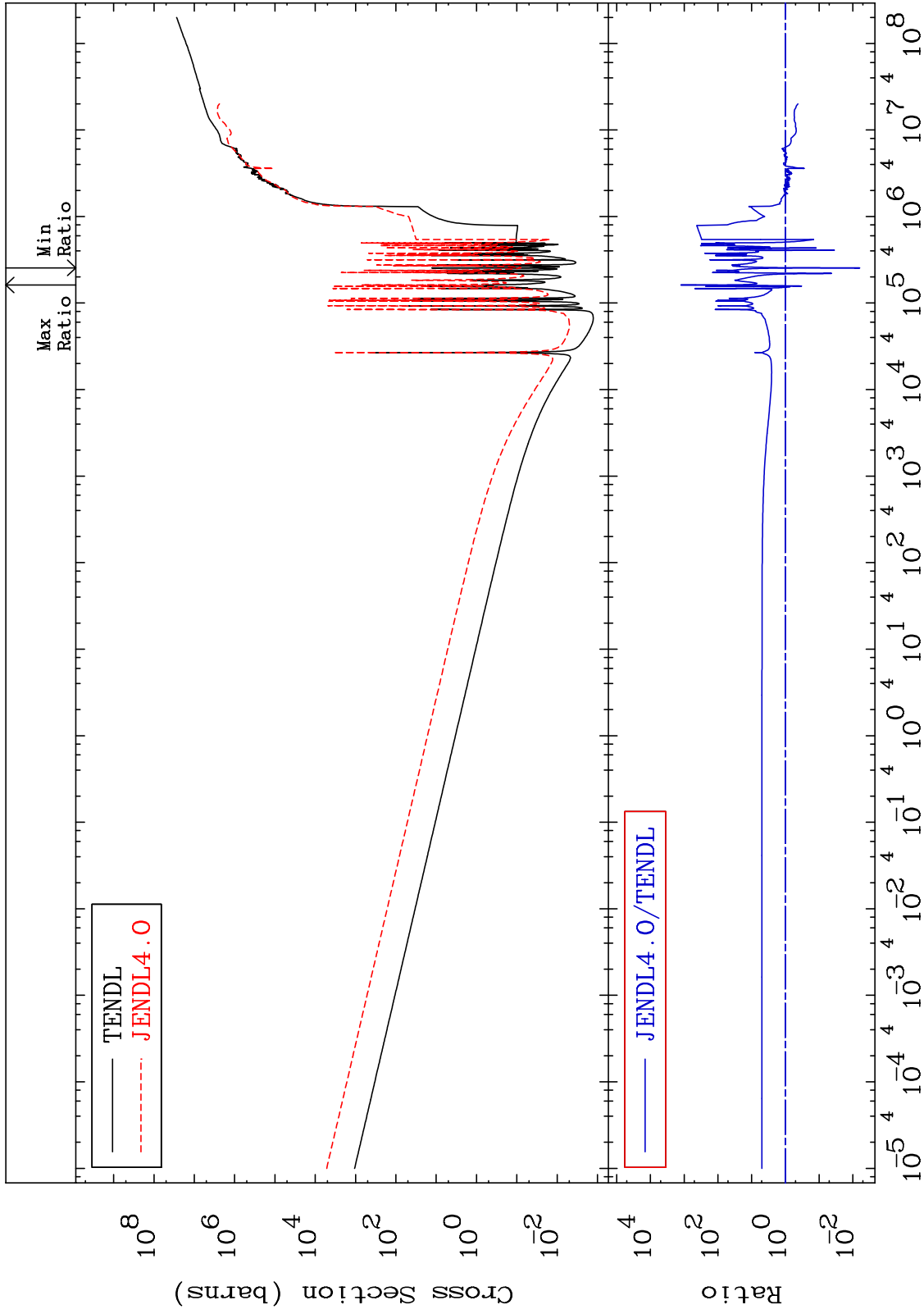


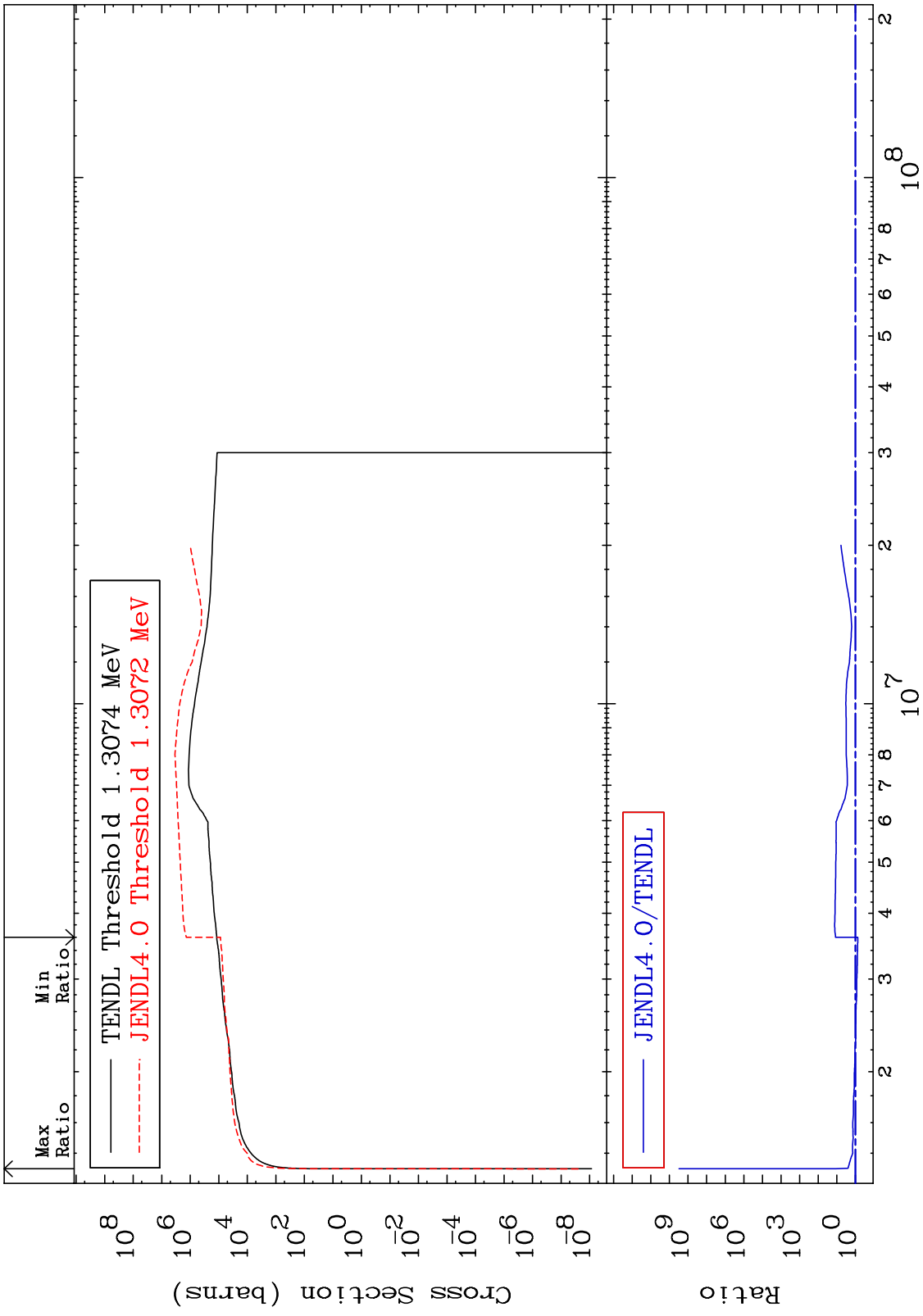


MAT 1525

Kerma non-elastic (all but mt2)  
Cross Section

15-P -31  
-99.37 To 9999. %

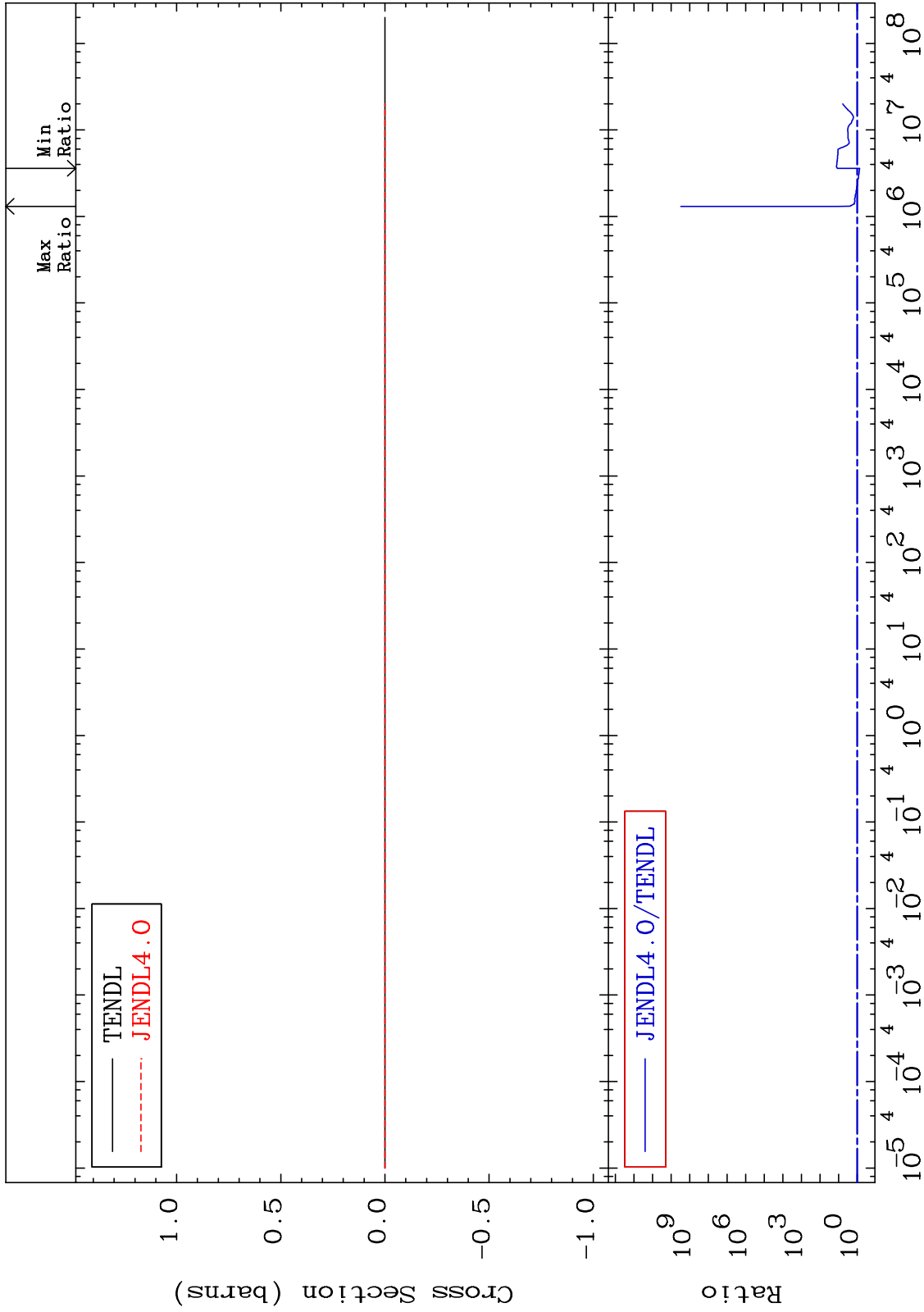




MAT 1525

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

15-P -31  
-25.98 To 9999. %

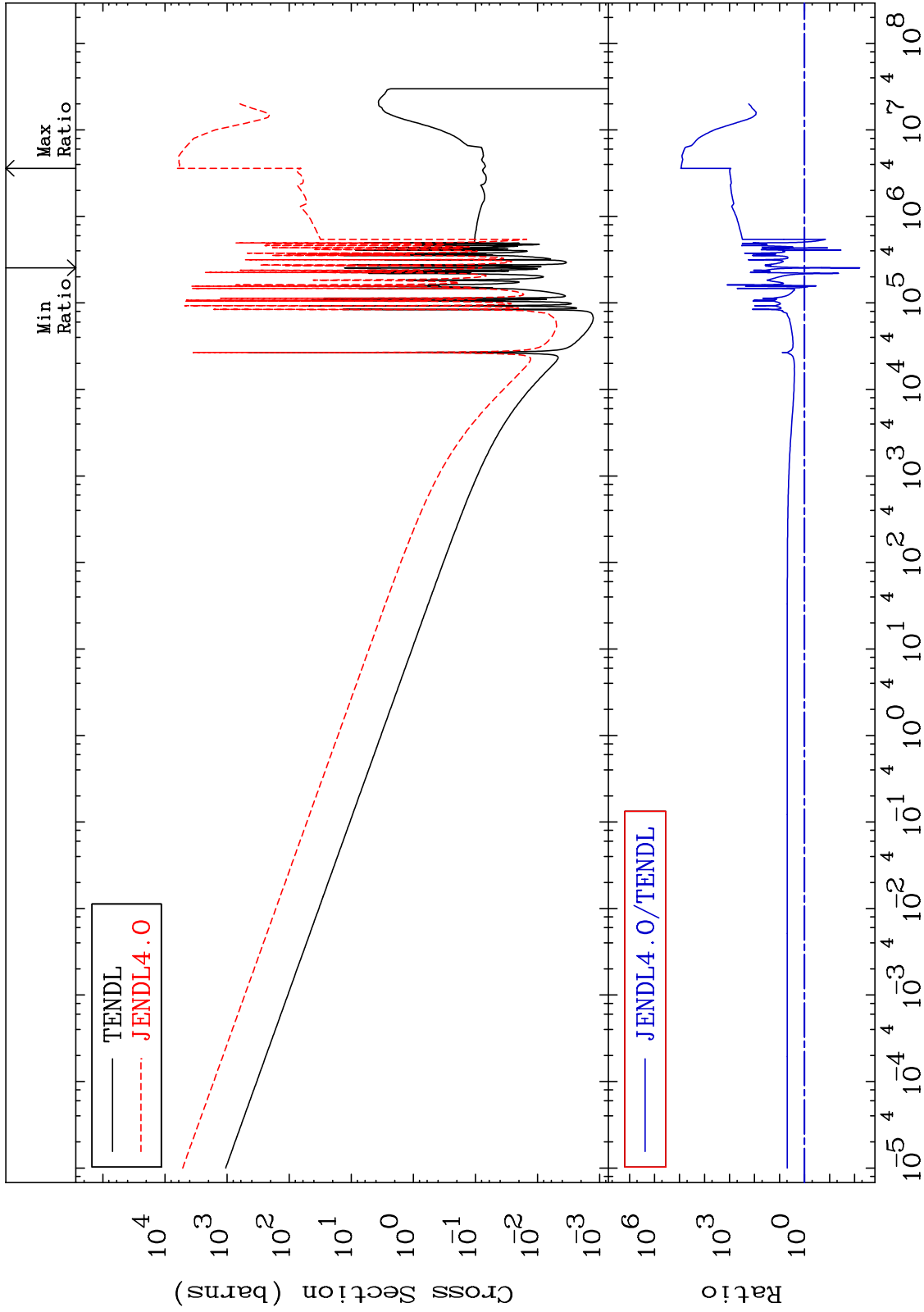




MAT 1525

Kerma capture (mt102)  
Cross Section

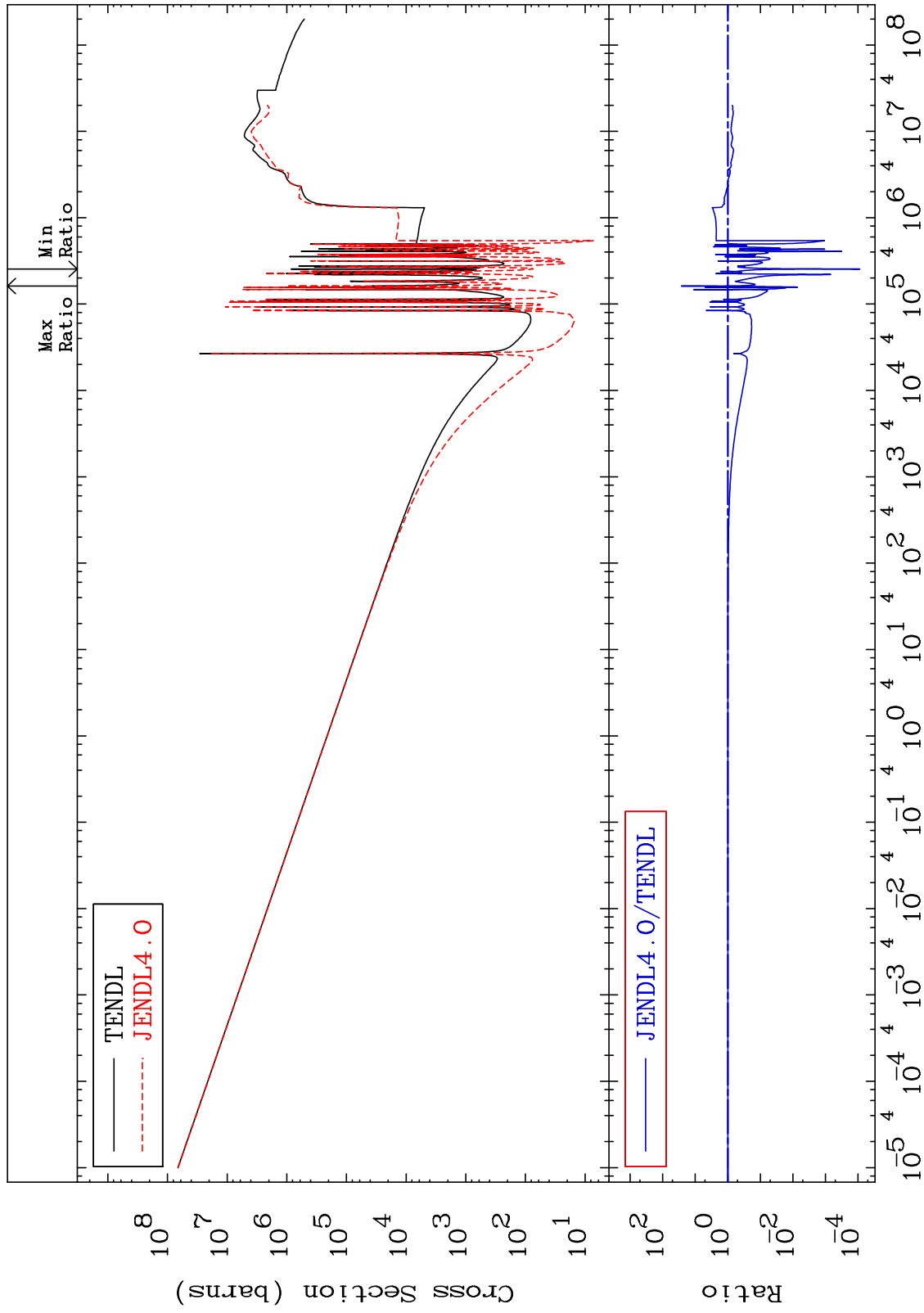
15-P -31  
-99.37 To 9999. %



MAT 1525

Total photon (eV-barns)  
Cross Section

15-P -31  
-99.99 To 2591. %

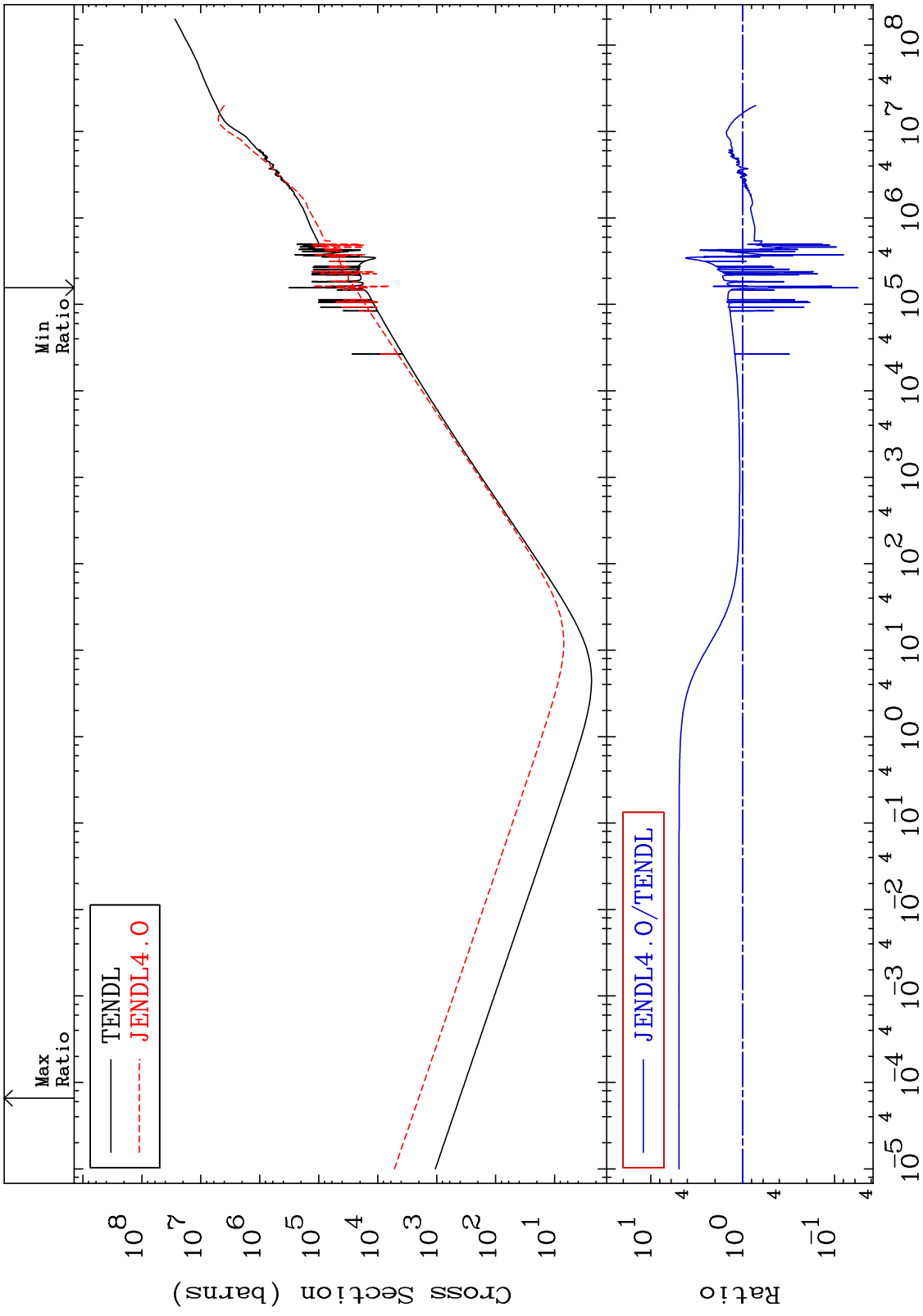


25

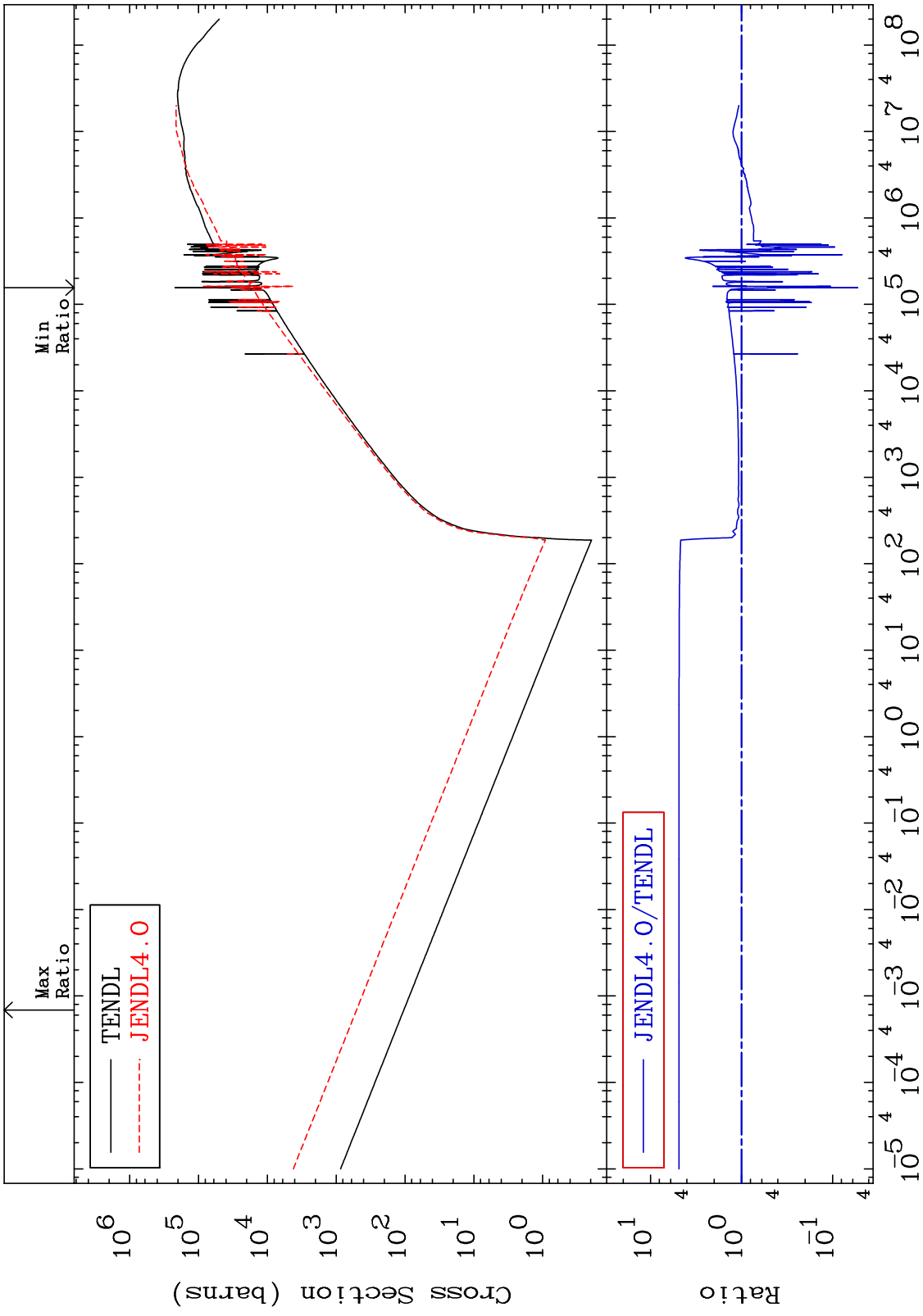
Incident Energy (eV)

15-P -31

MAT 1525      Total kinematic kerma (high limit)      15-P -31  
 Cross Section      -94.42 To 392.8 %



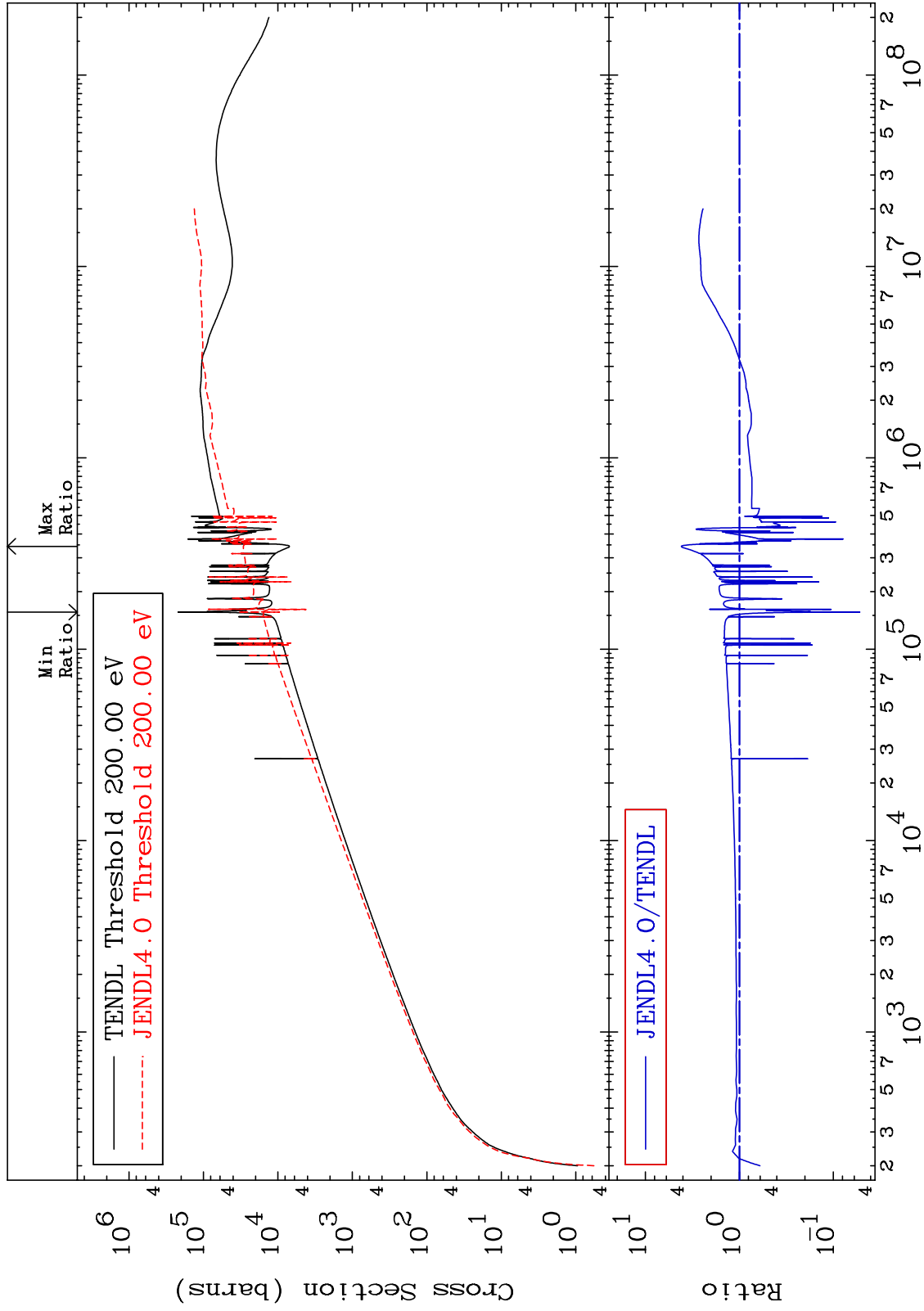
MAT 1525 Dpa total (eV-barns) 15-P -31  
 Cross Section -94.72 To 386.3 %

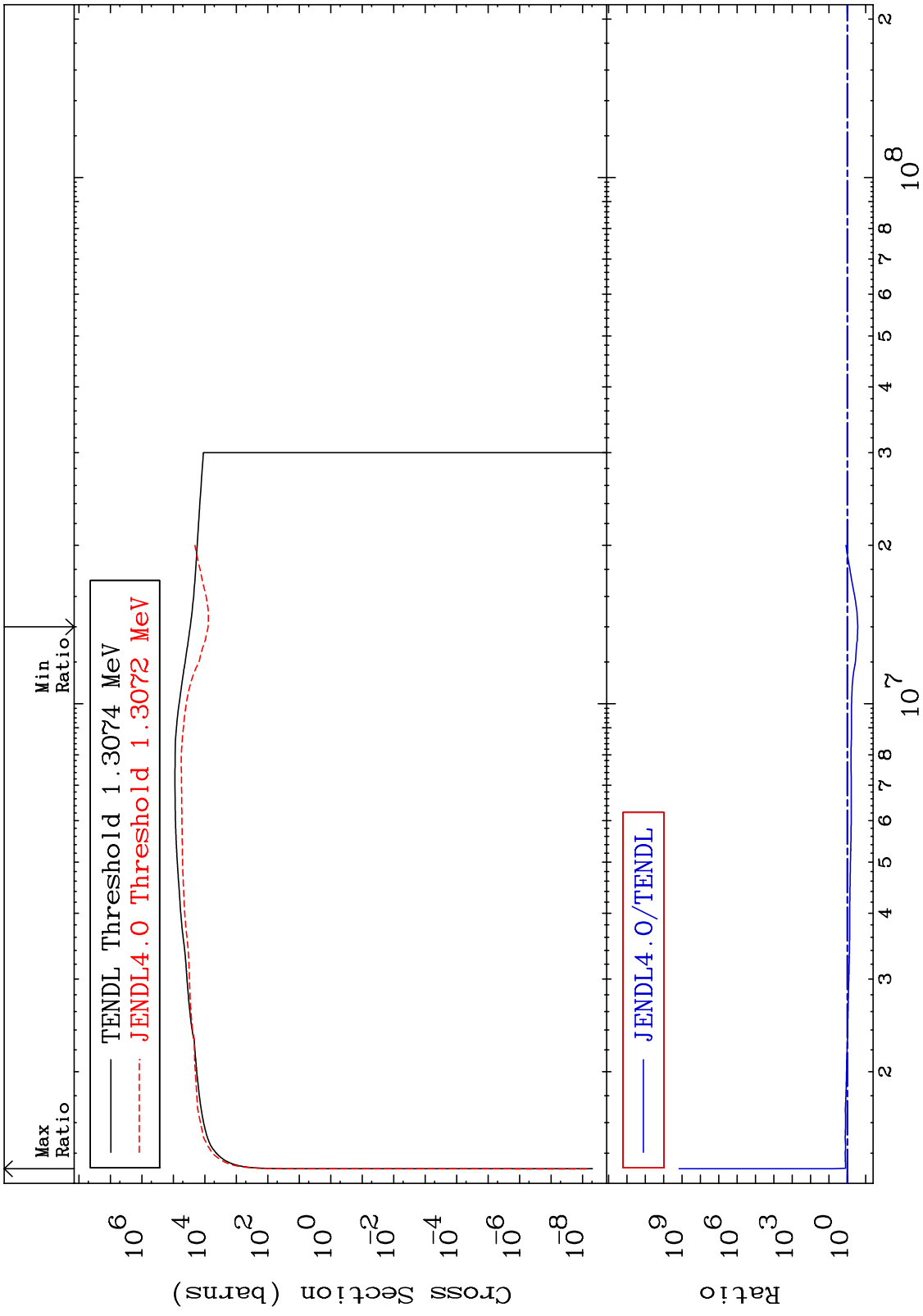


MAT 1525

Dpa elastic (mt2)  
Cross Section

15-P -31  
-94.77 To 315.7 %

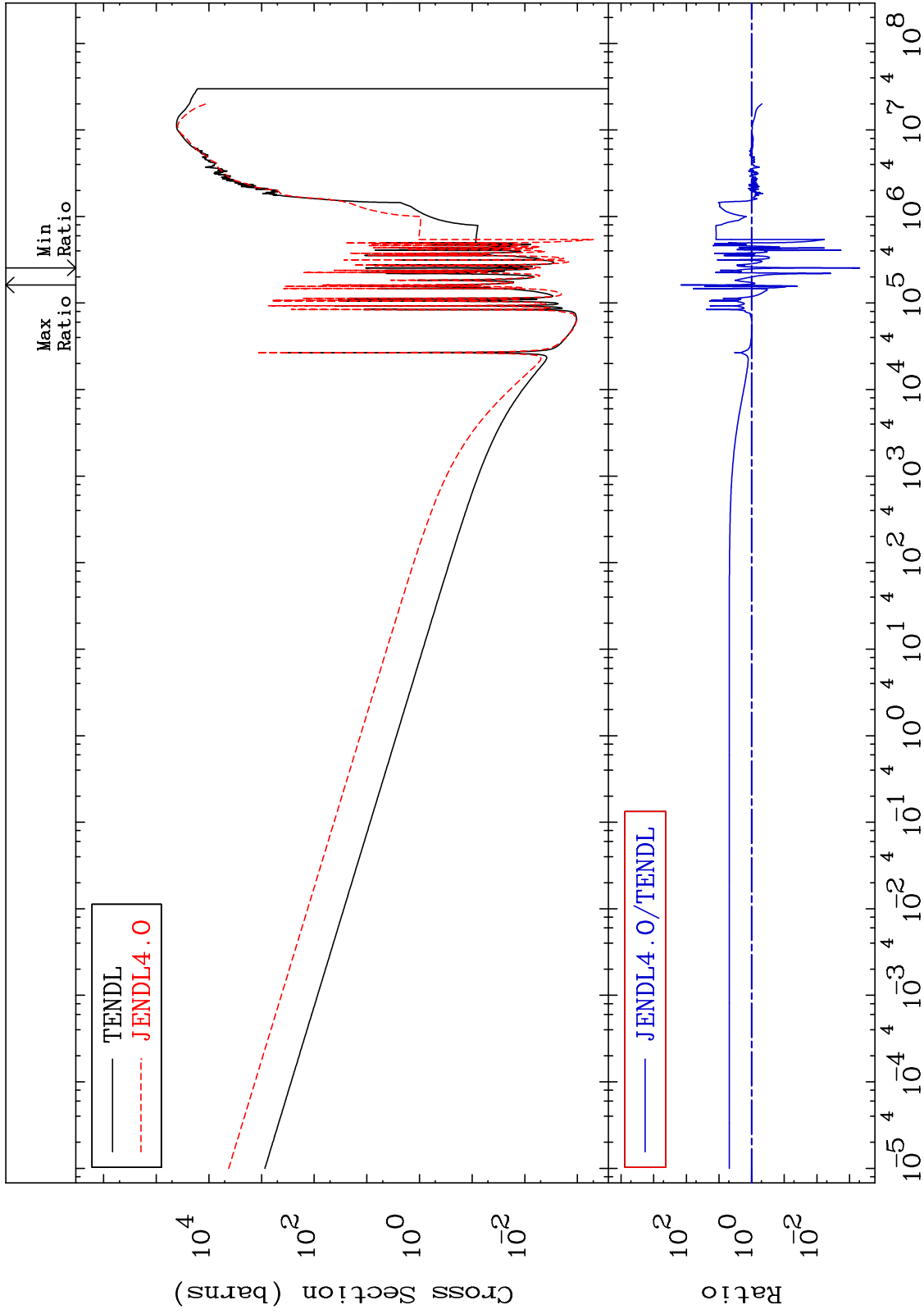




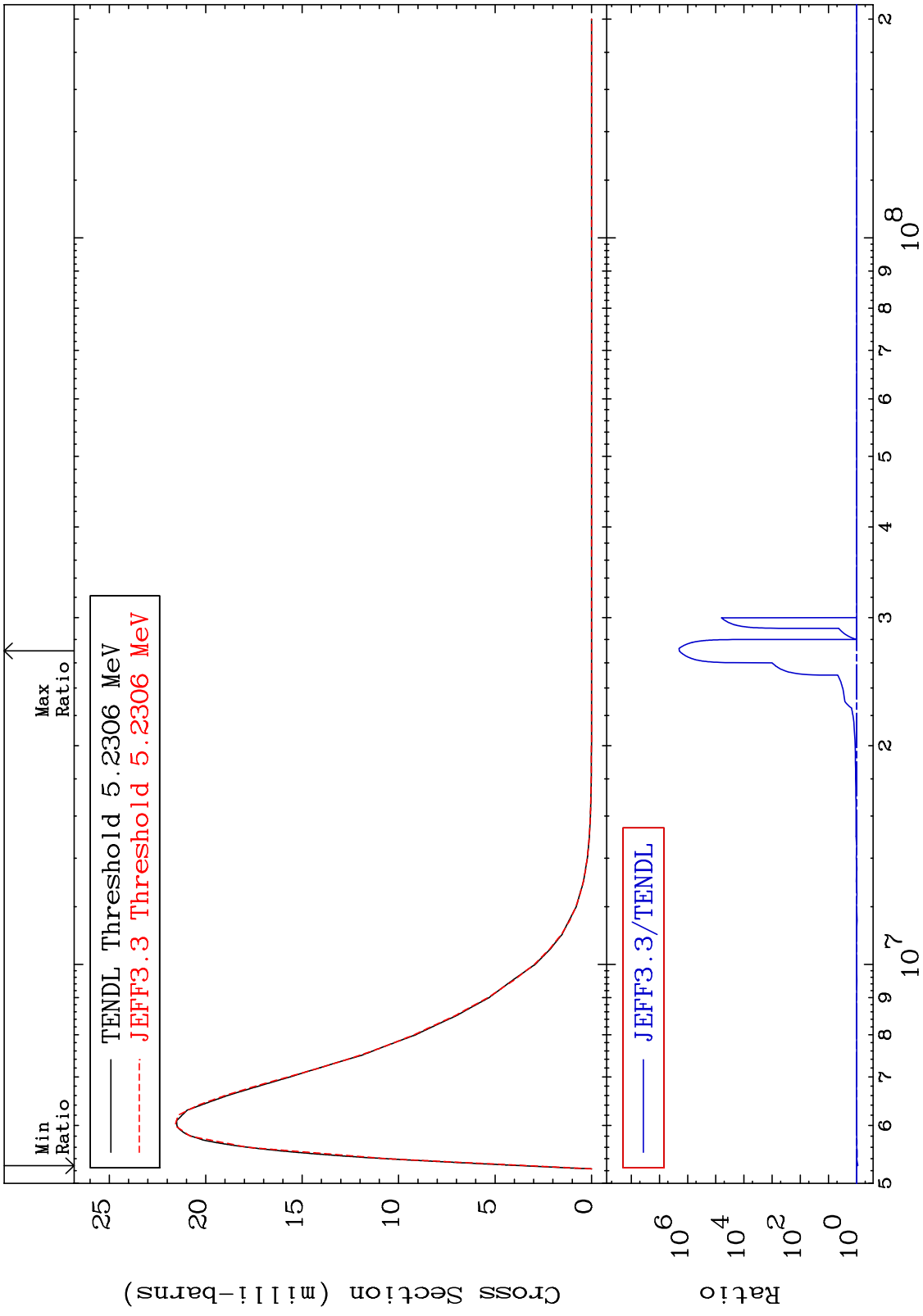
MAT 1525

Dpa disappearance (mt102 -120)  
Cross Section

15-P -31  
-99.95 To 9999. %

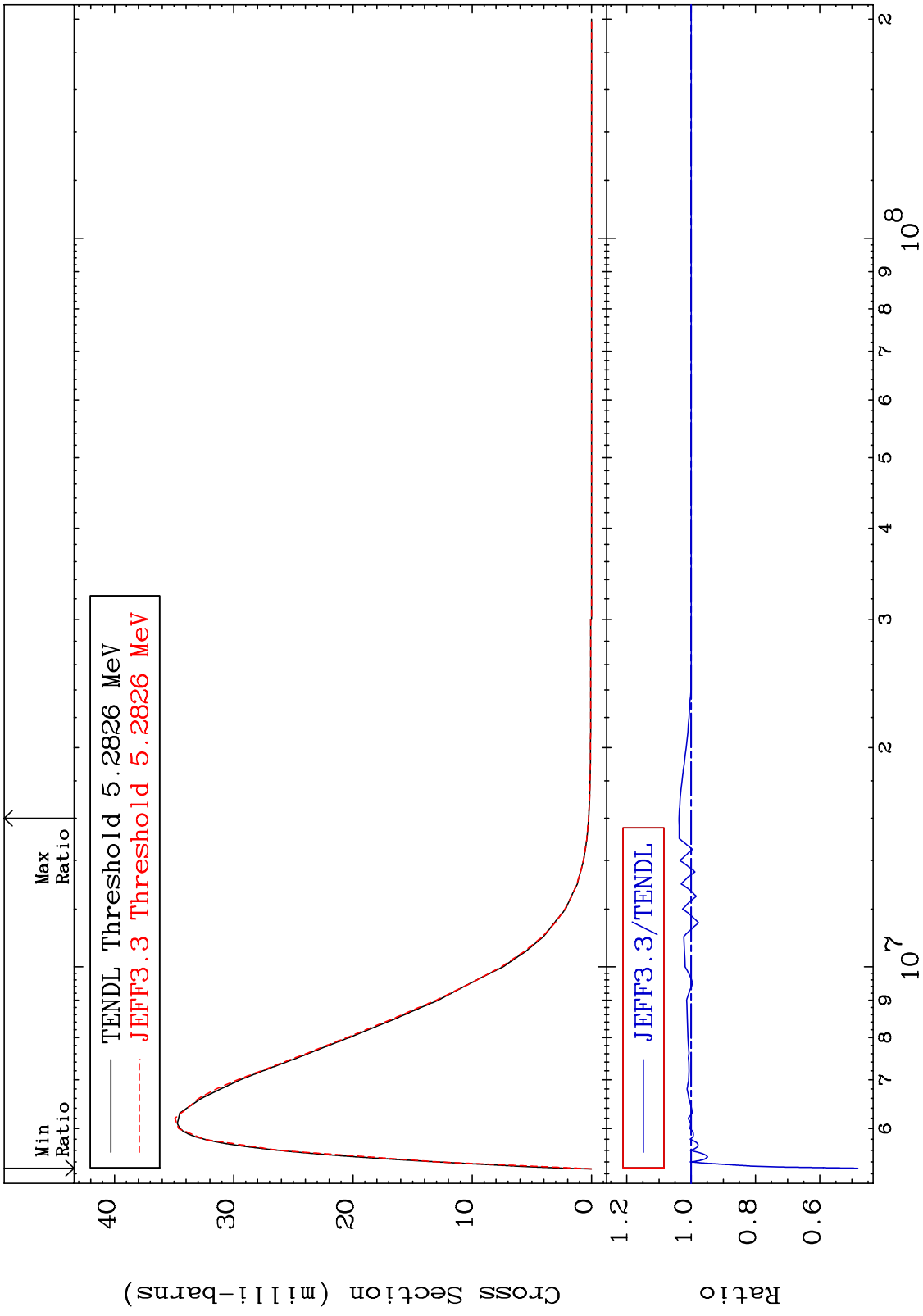


MAT 1525 MT= 64 (n,n') Level Cross Section -9.152 To 9999. % 15-P -31

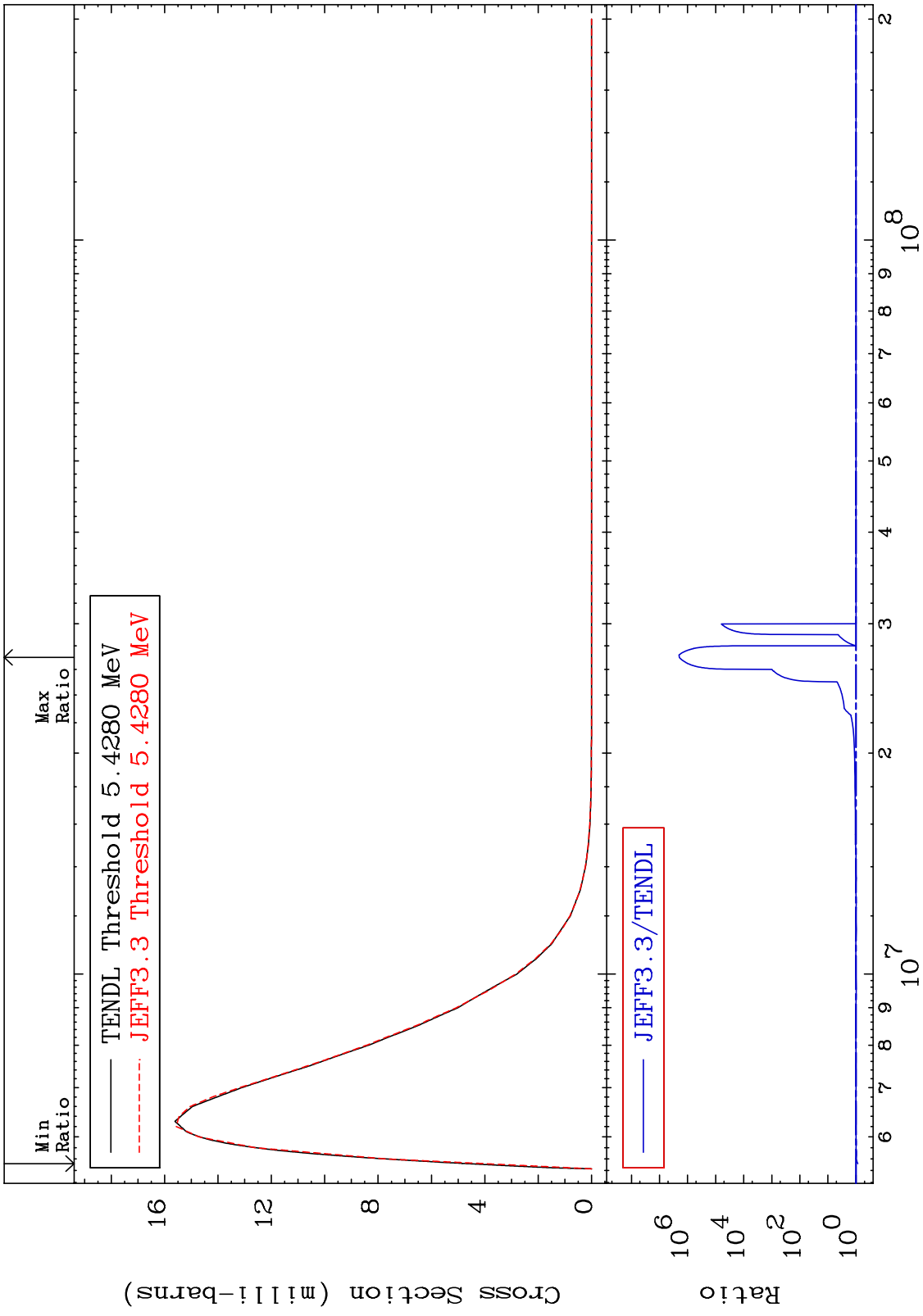




MAT 1525 MT= 65 (n,n') Level Cross Section -51.83 To 3.760 % 15-P -31



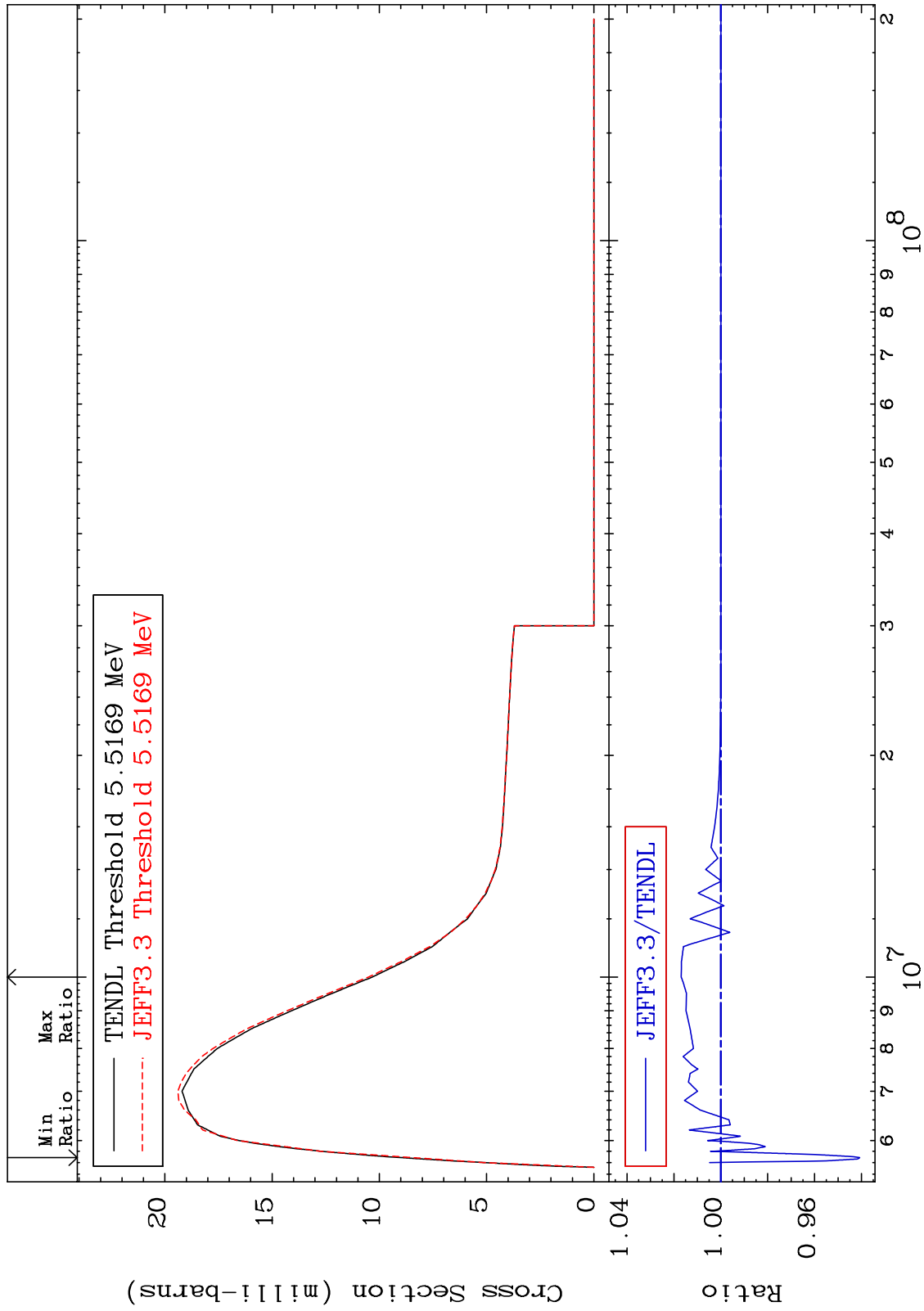
MAT 1525 MT= 66 (n,n') Level Cross Section -13.86 To 9999. % 15-P -31



MAT 1525

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

15-P -31  
-5.925 To 1.687 %

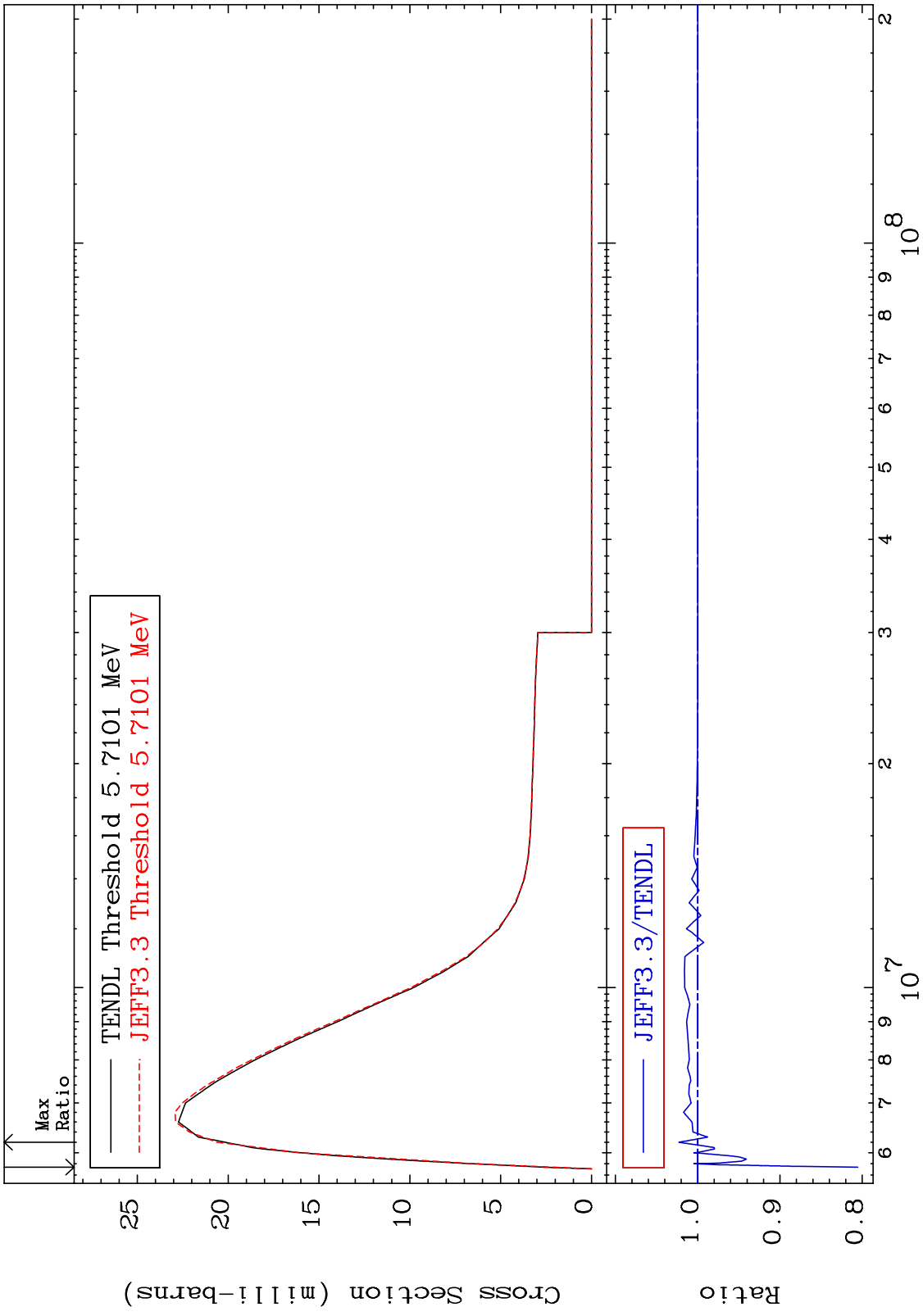


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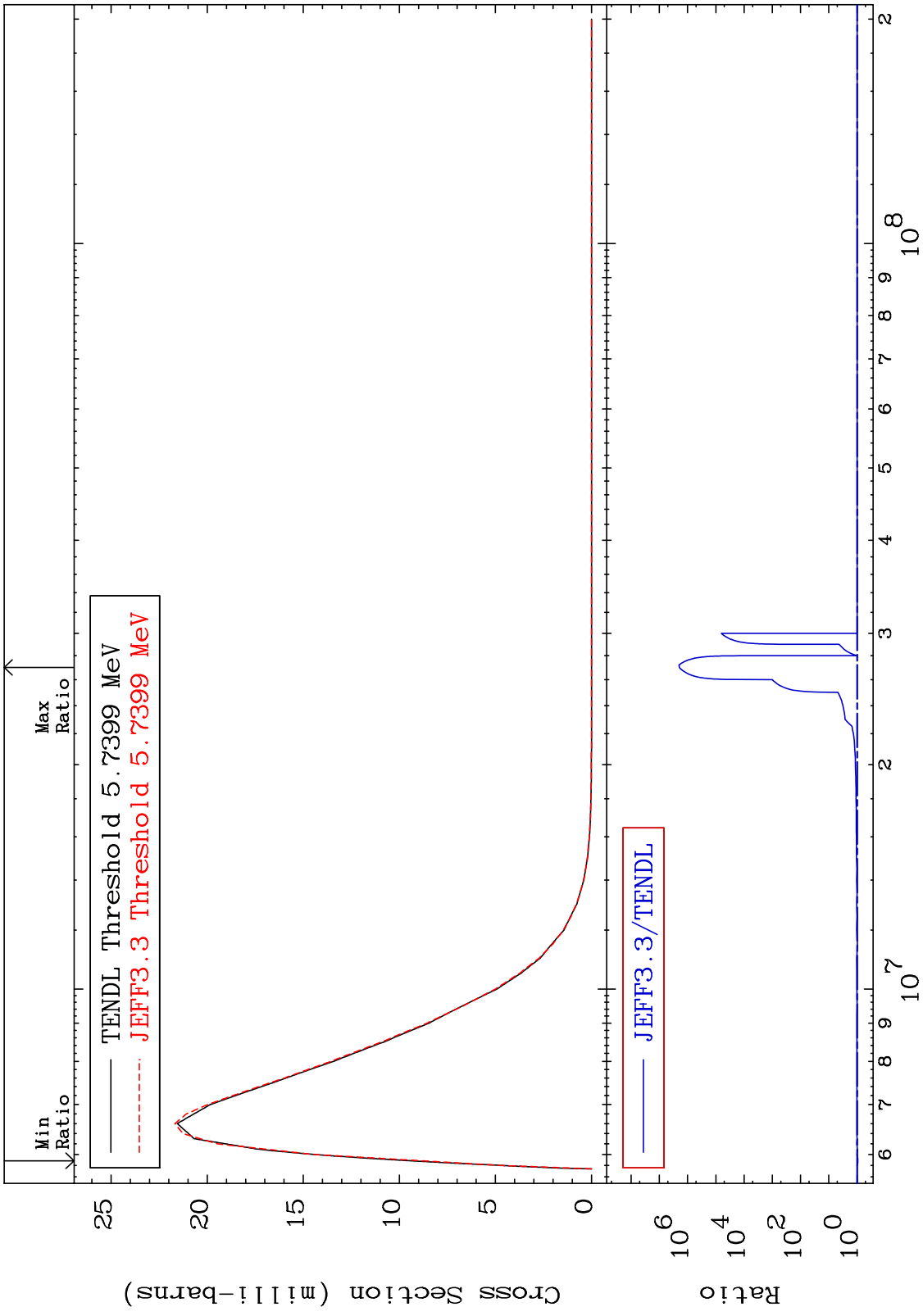
Incident Energy (eV)

15-P -31

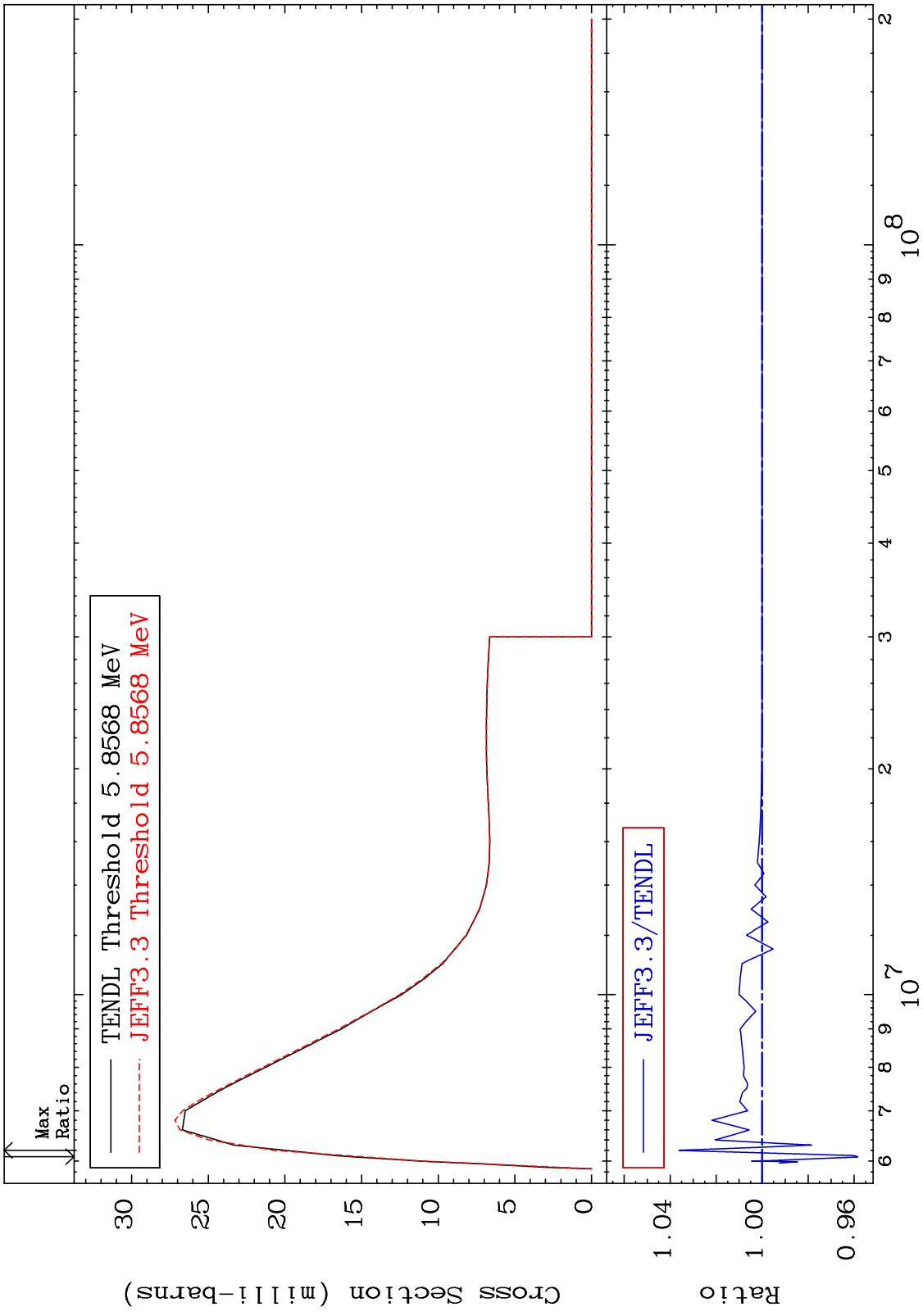
MAT 1525 MT= 68 (n,n') Level Cross Section -19.46 To 2.269 % 15-P -31



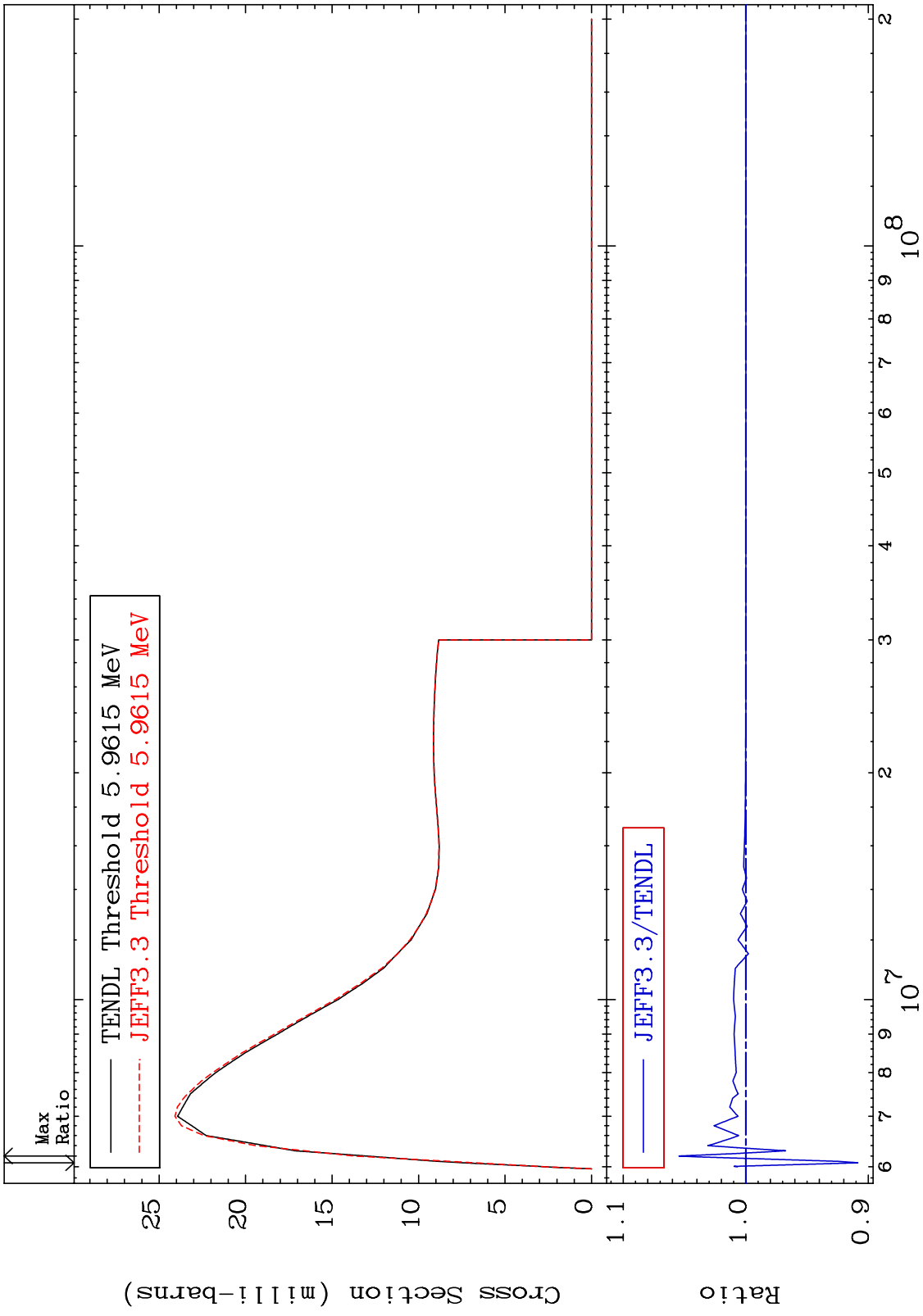
MAT 1525 MT= 69 (n,n') Level Cross Section -6.310 To 9999. % 15-P -31



MAT 1525 MT= 70 (n,n') Level Cross Section -4.163 To 3.615 % 15-P -31



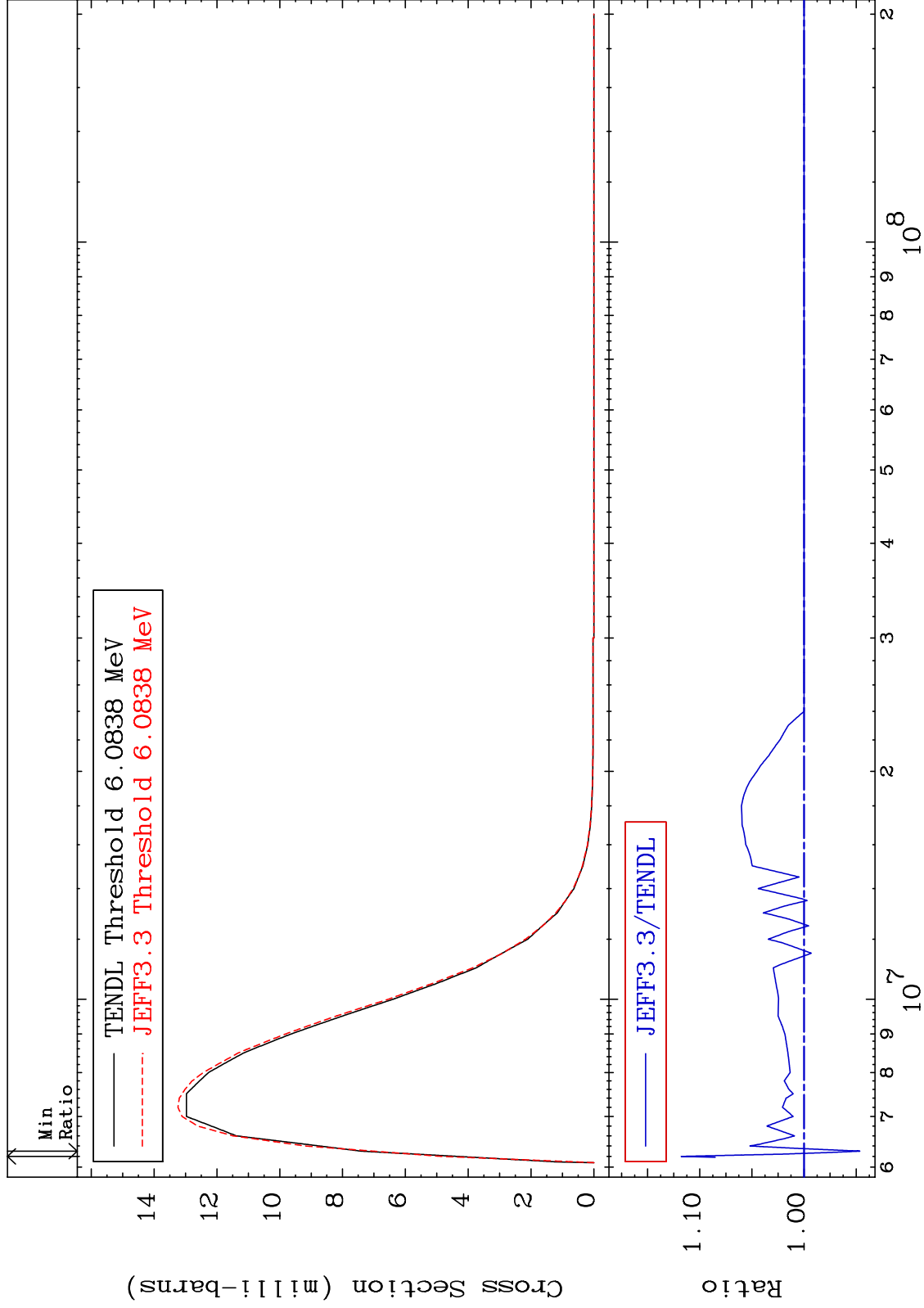
MAT 1525 MT= 71 (n,n') Level Cross Section -9.143 To 5.451 % 15-P -31



MAT 1525

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

15-P -31  
-5.342 To 11.78 %

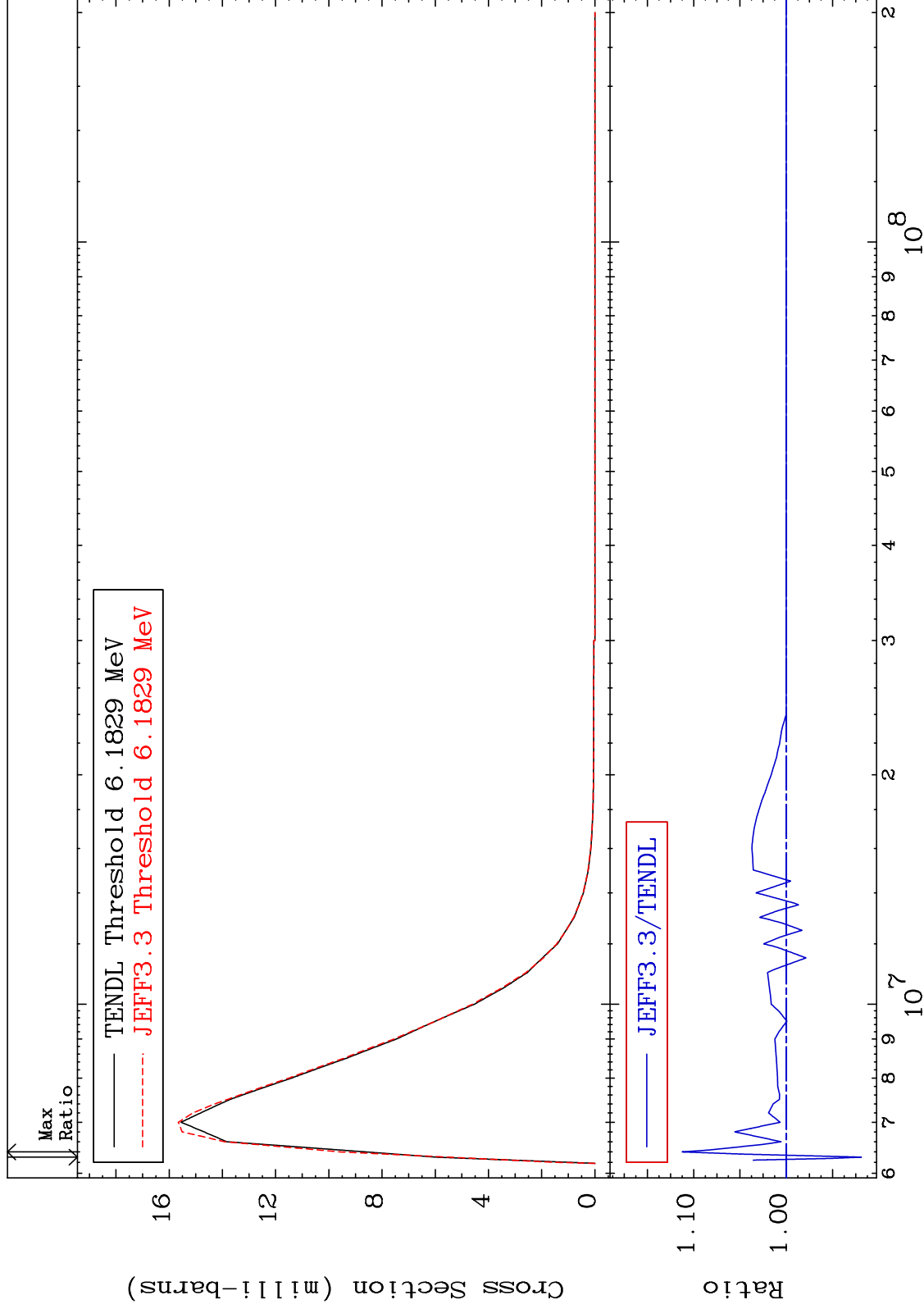




MAT 1525

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

15-P -31  
-8.102 To 11.21 %

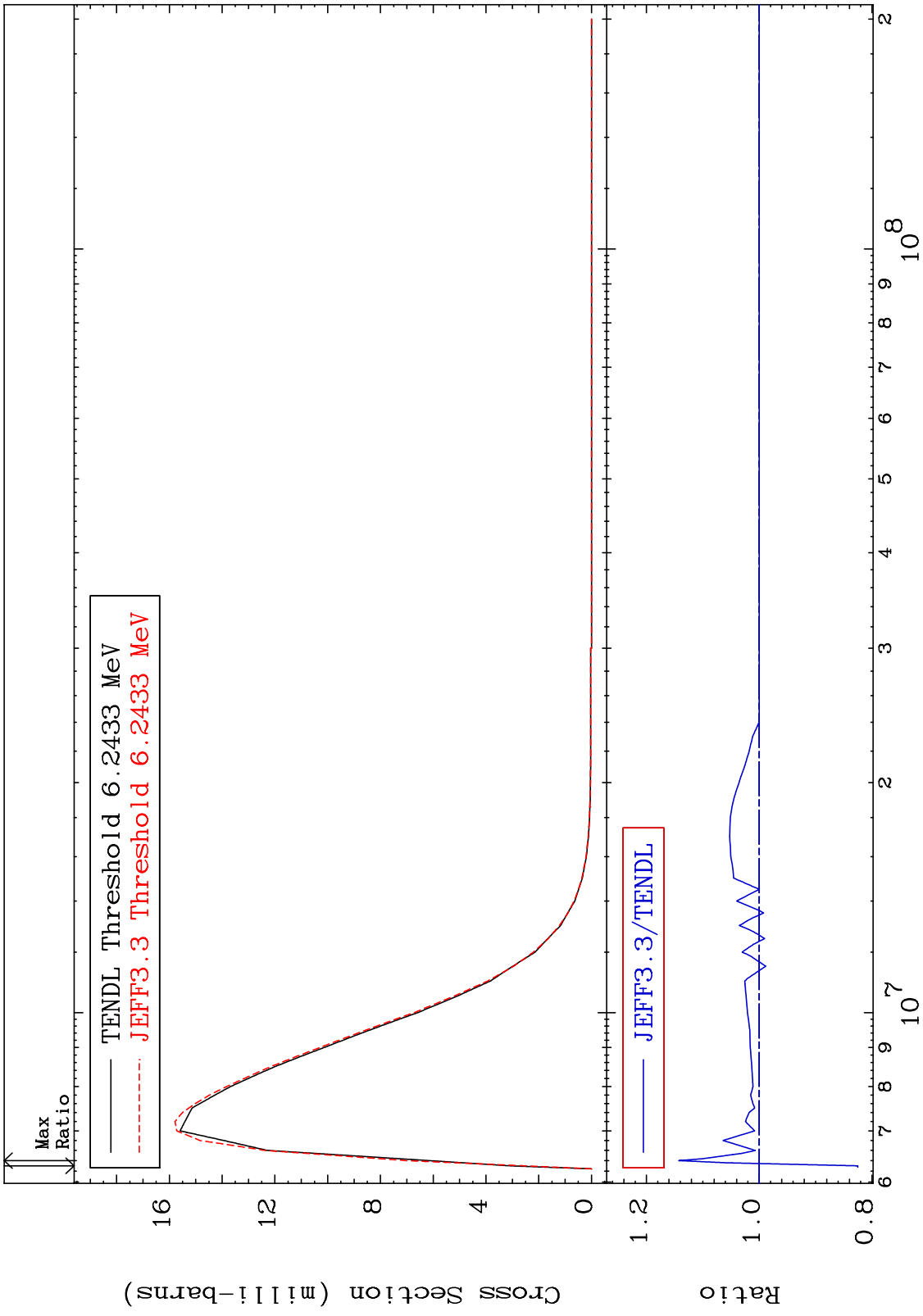


40

Incident Energy (eV)

15-P -31

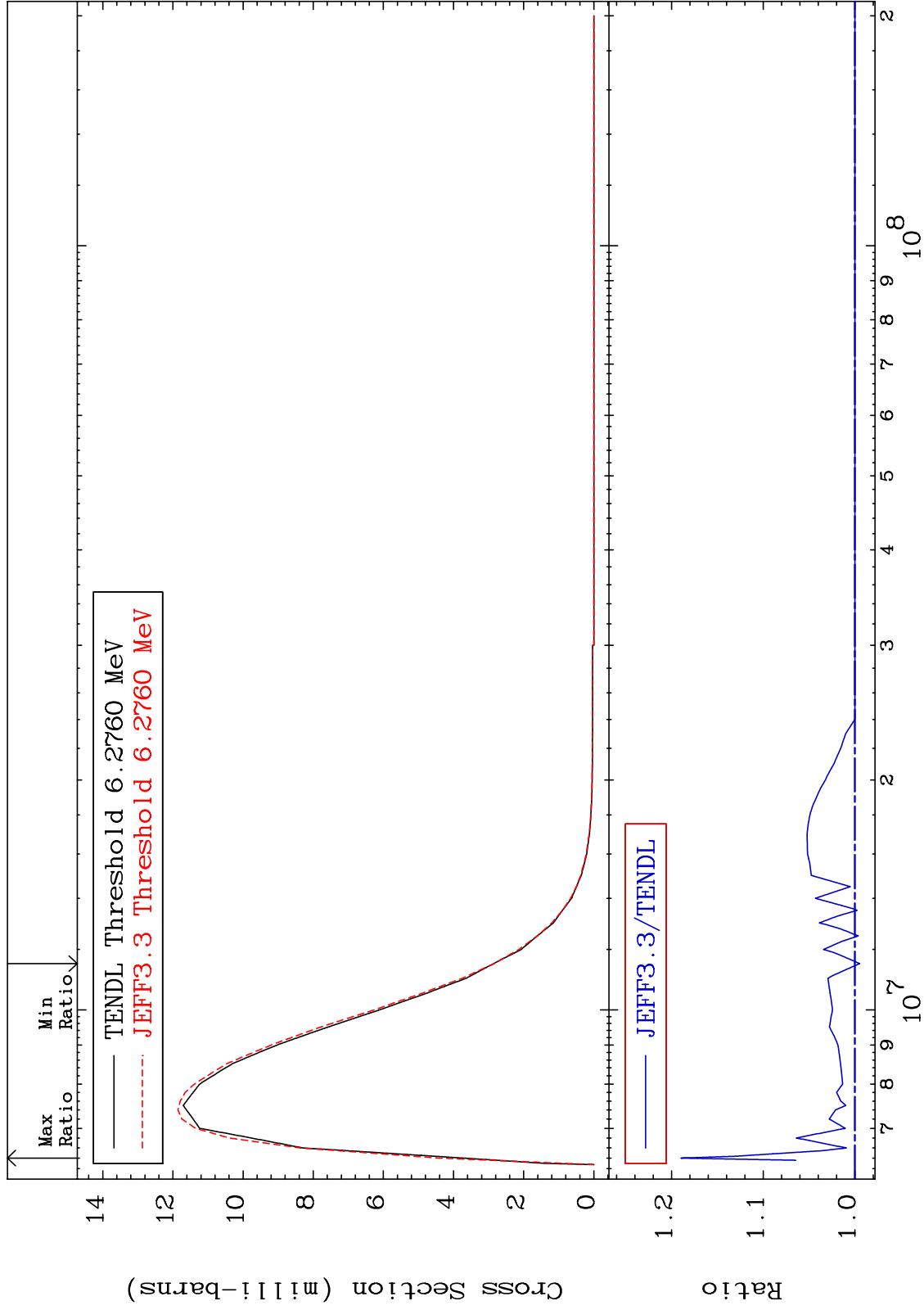
MAT 1525 MT= 74 (n,n') Level Cross Section -17.50 To 14.22 % 15-P -31



MAT 1525

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

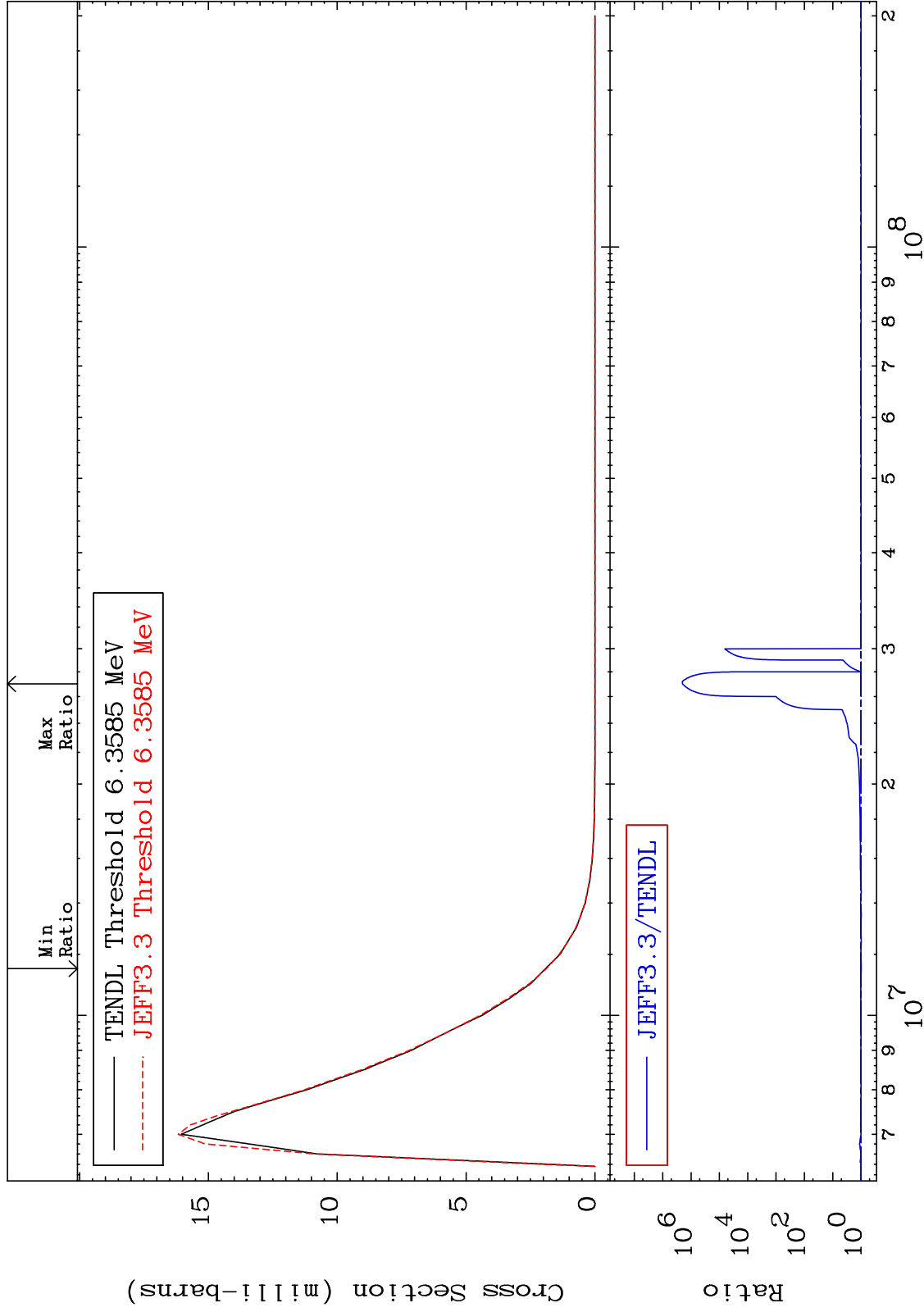
15-P -31  
-0.532 To 18.94 %



MAT 1525

MT= 76 (n,n') Level  
Cross Section

15-P -31  
-1.904 To 9999. %



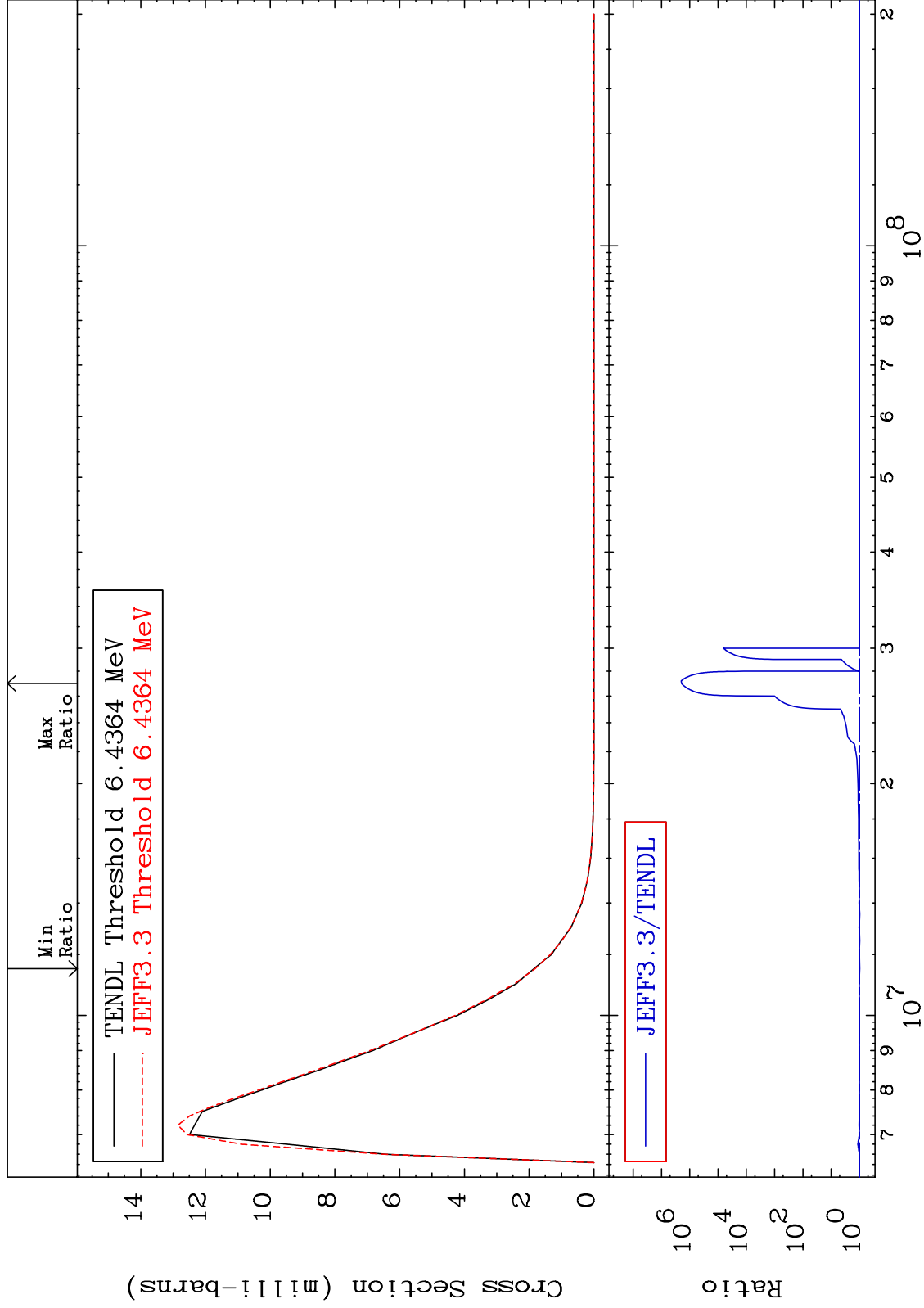
43

15-P -31

MAT 1525

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

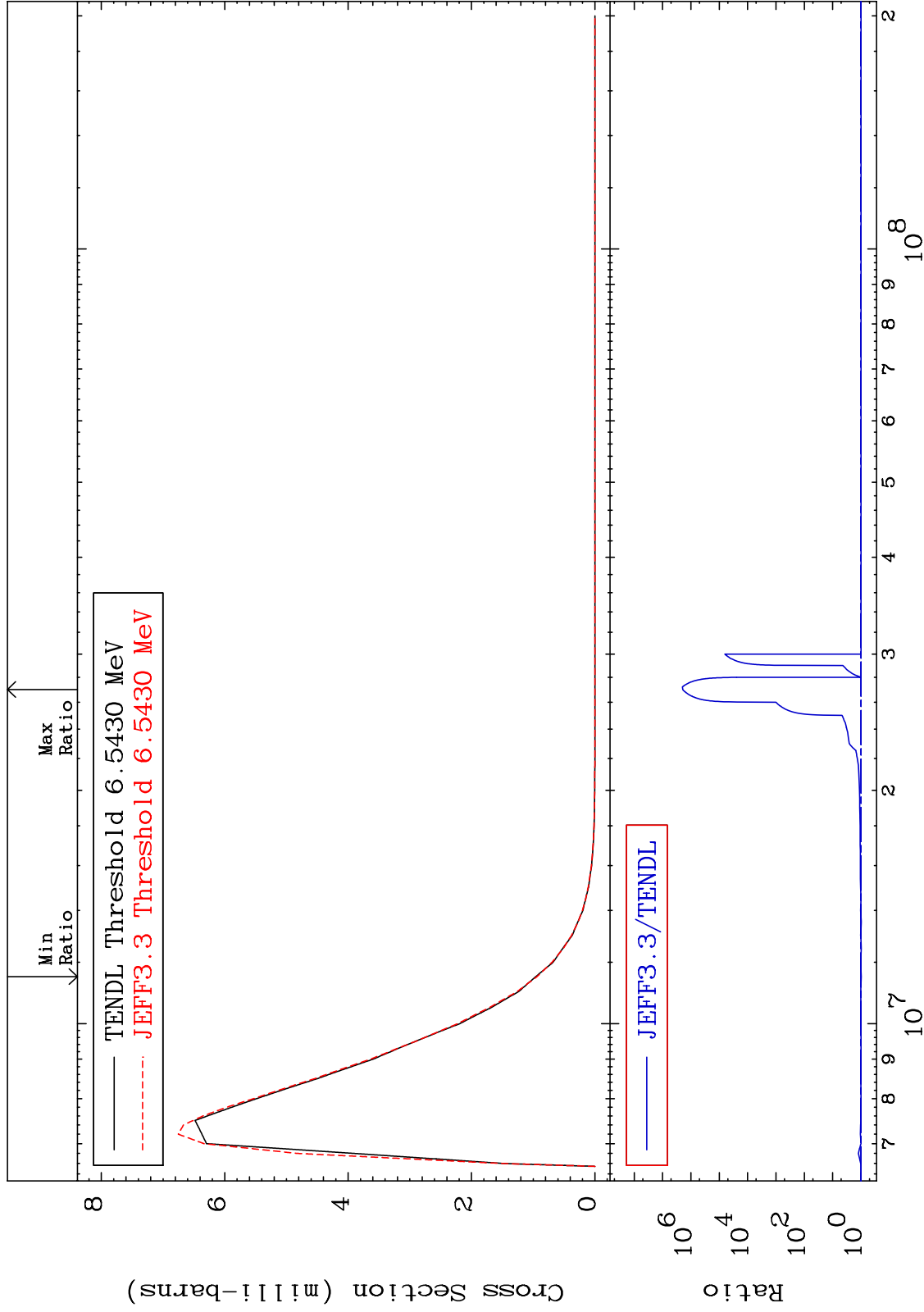
15-P -31  
-1.958 To 9999. %



MAT 1525

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

15-P -31  
-2.122 To 9999. %



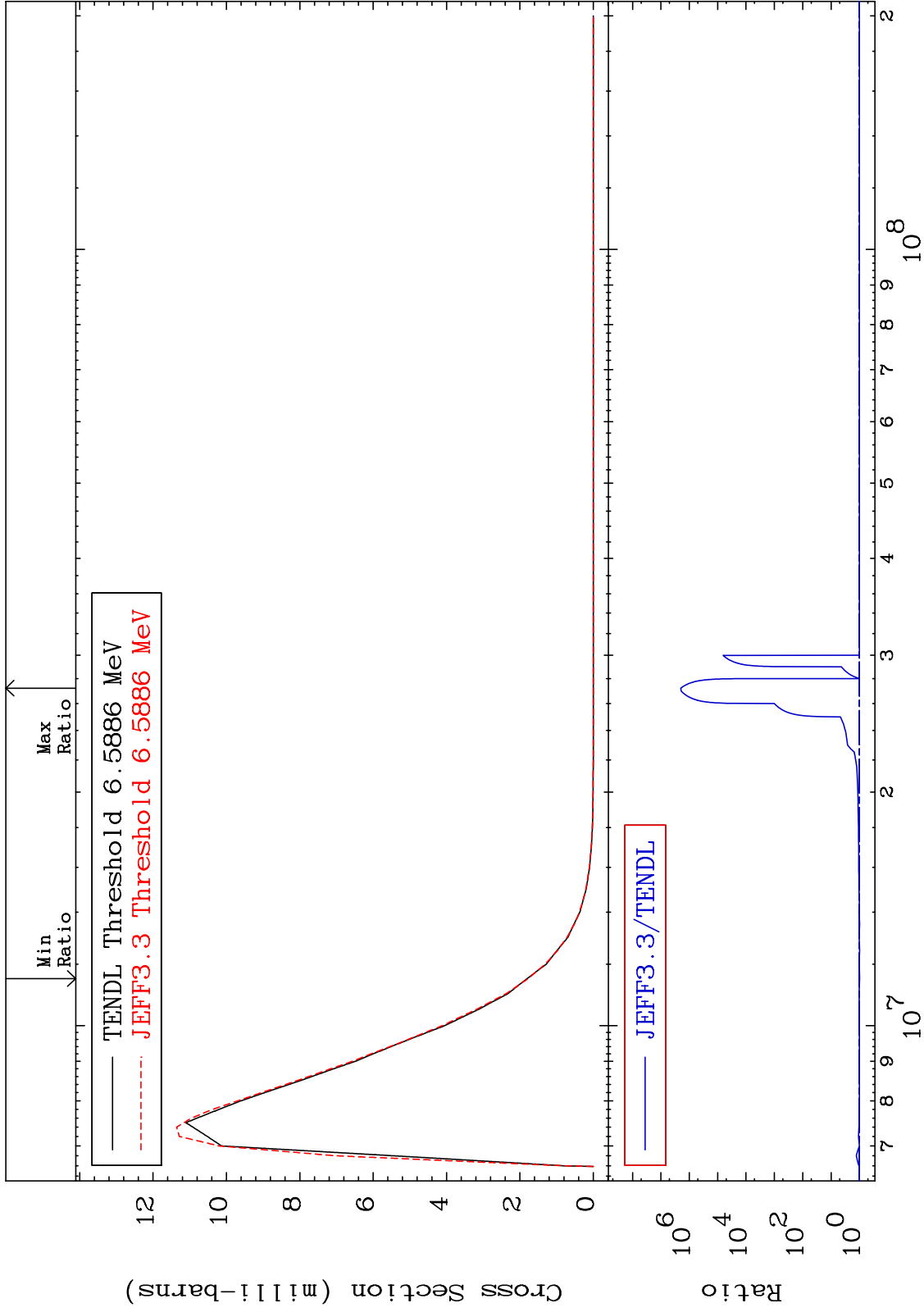
45

15-P -31

MAT 1525

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

15-P -31  
-1.806 To 9999. %



46

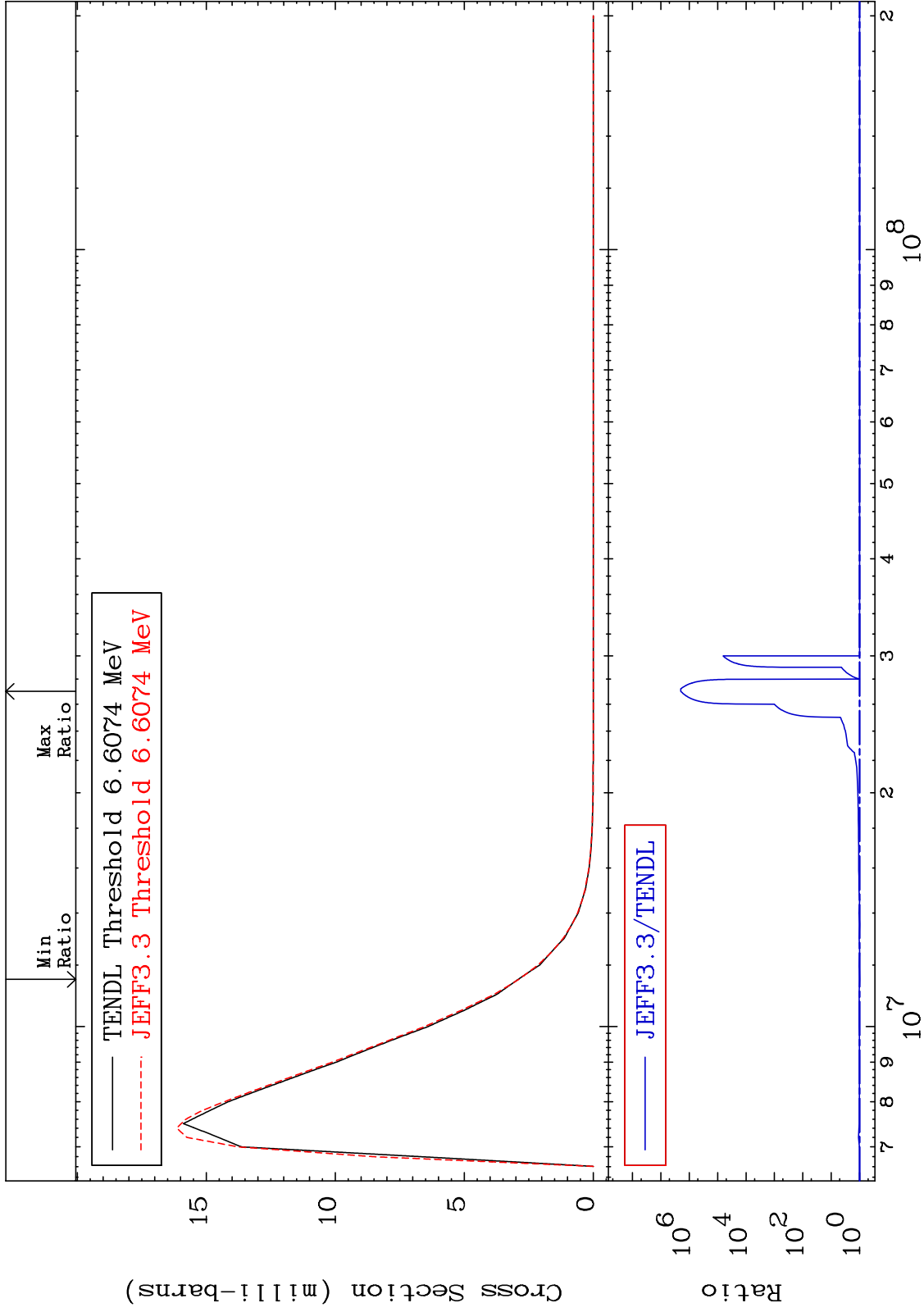
Incident Energy (eV)

15-P -31

MAT 1525

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

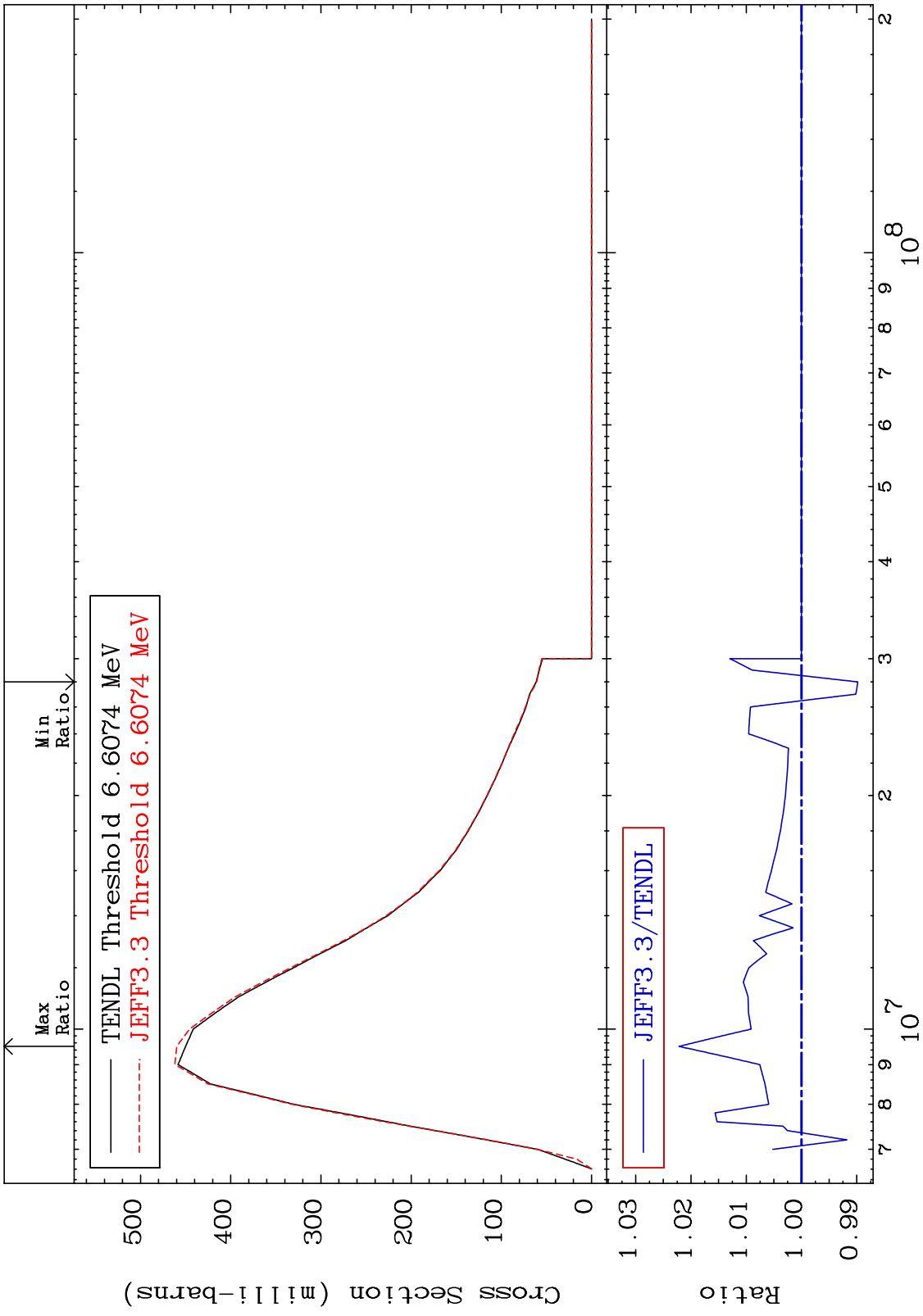
15-P -31  
-1.022 To 9999. %



47

15-P -31





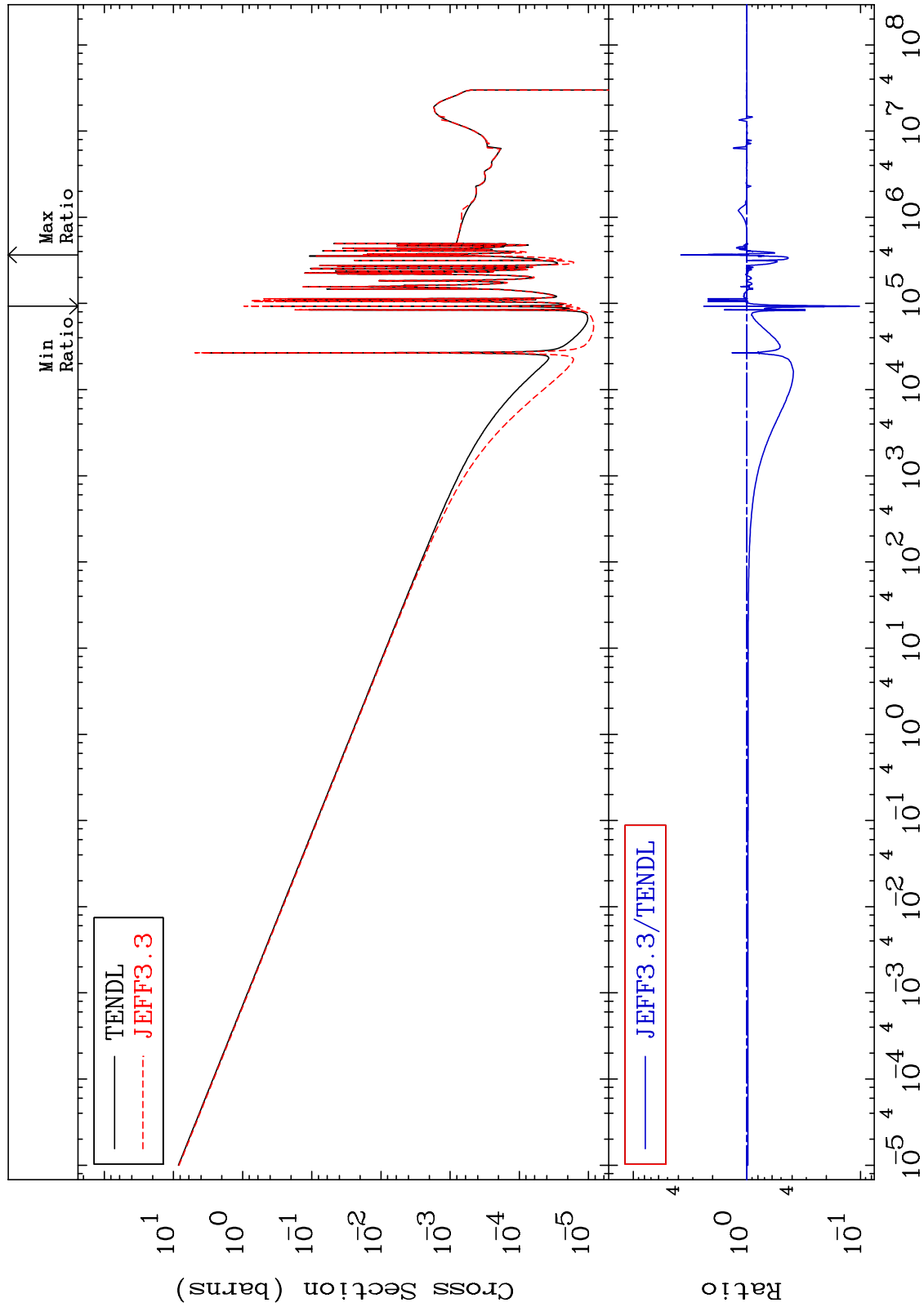
MAT 1525

(n,  $\gamma$ )

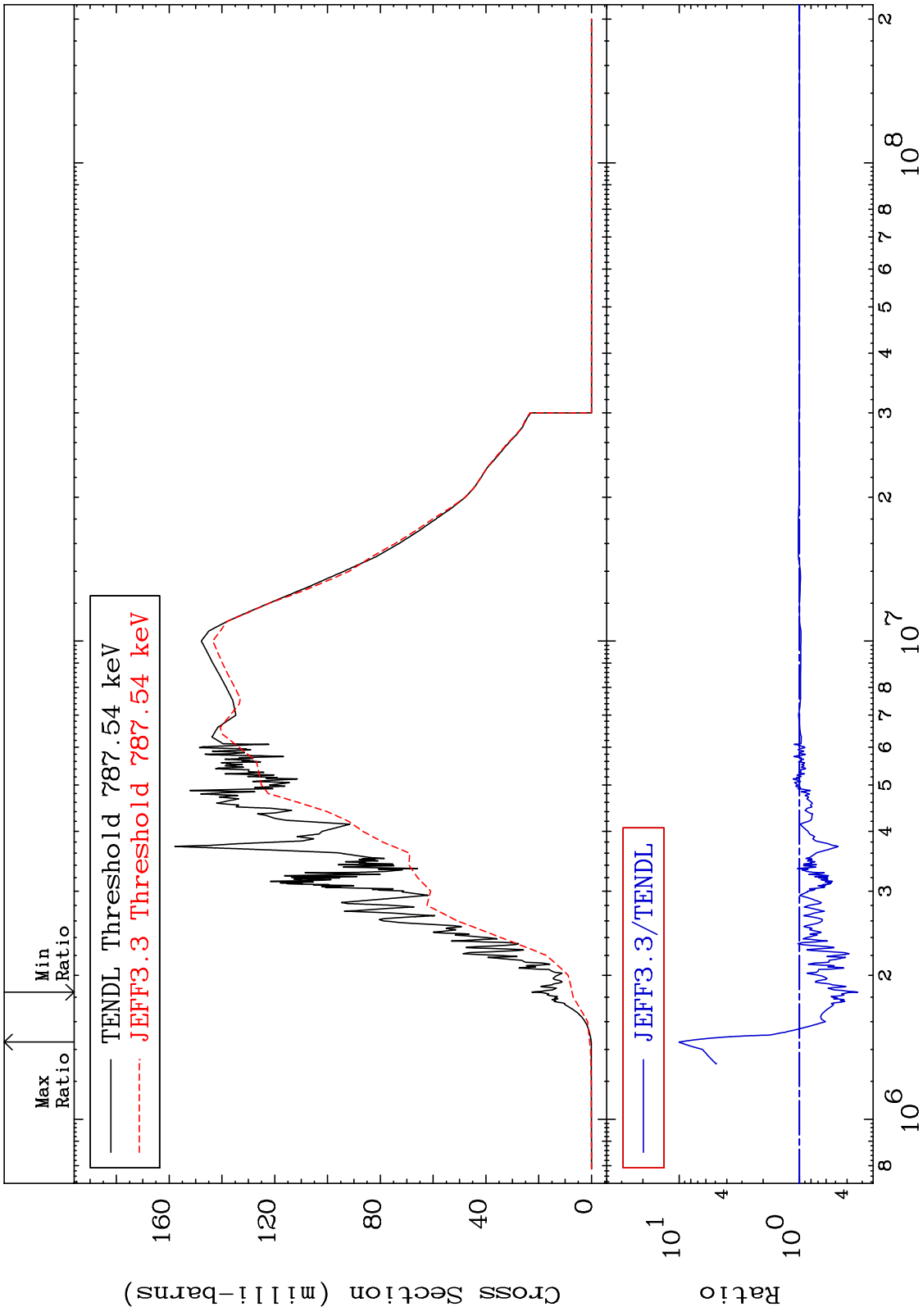
15-P -31

Cross Section

-89.72 To 281.3 %

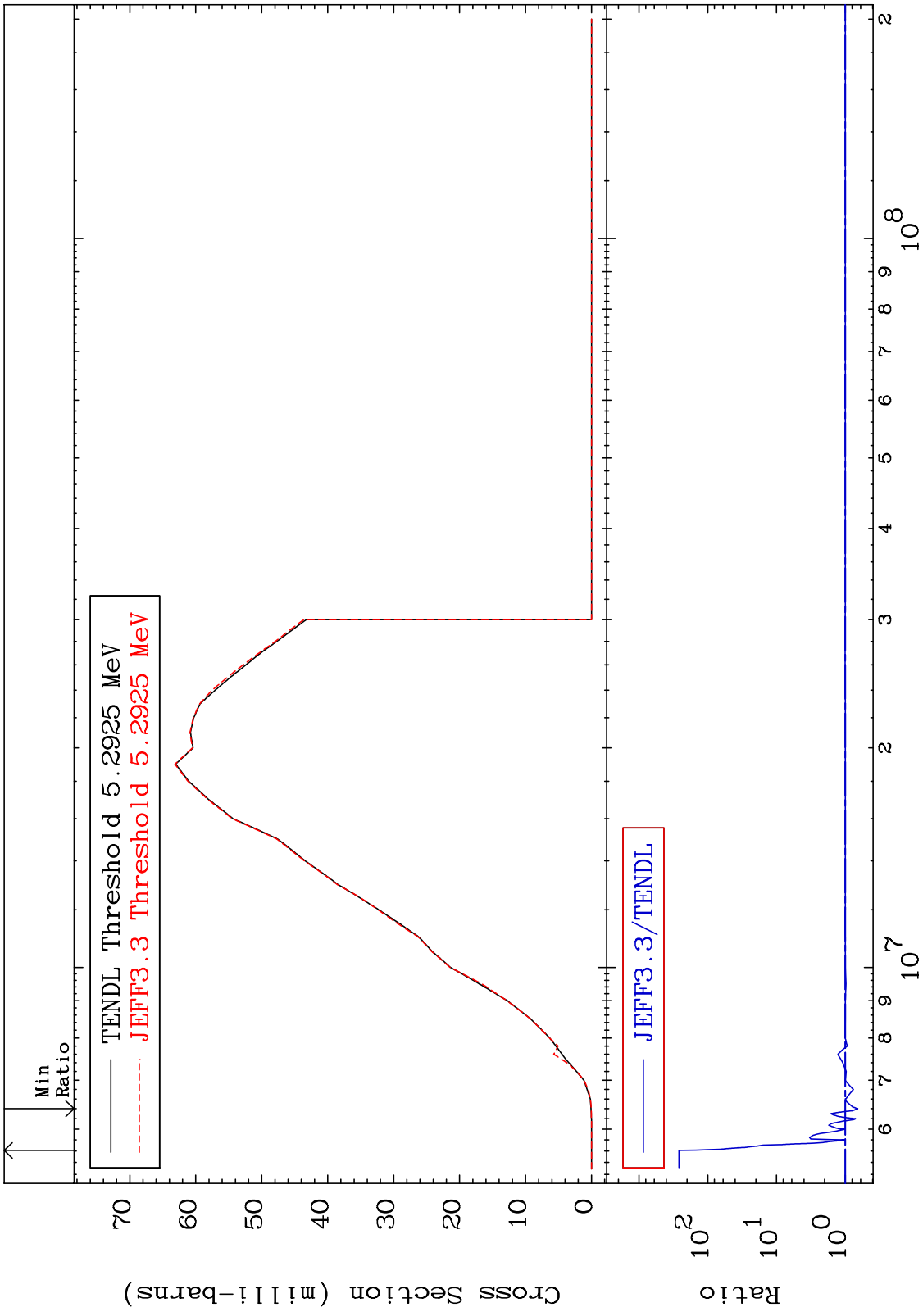


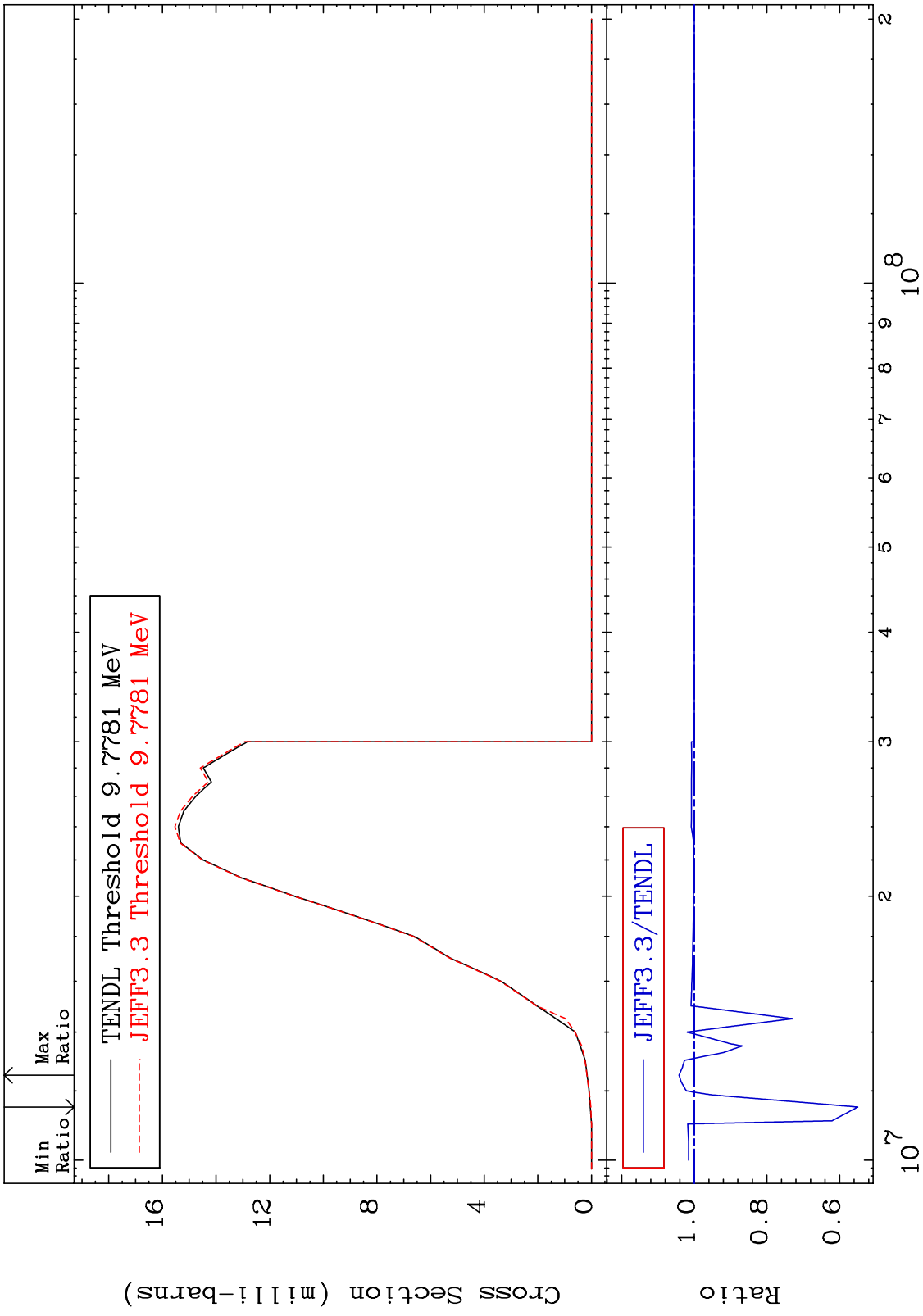
MAT 1525 (n,p) Cross Section 15-P -31  
-67.40 To 901.2 %

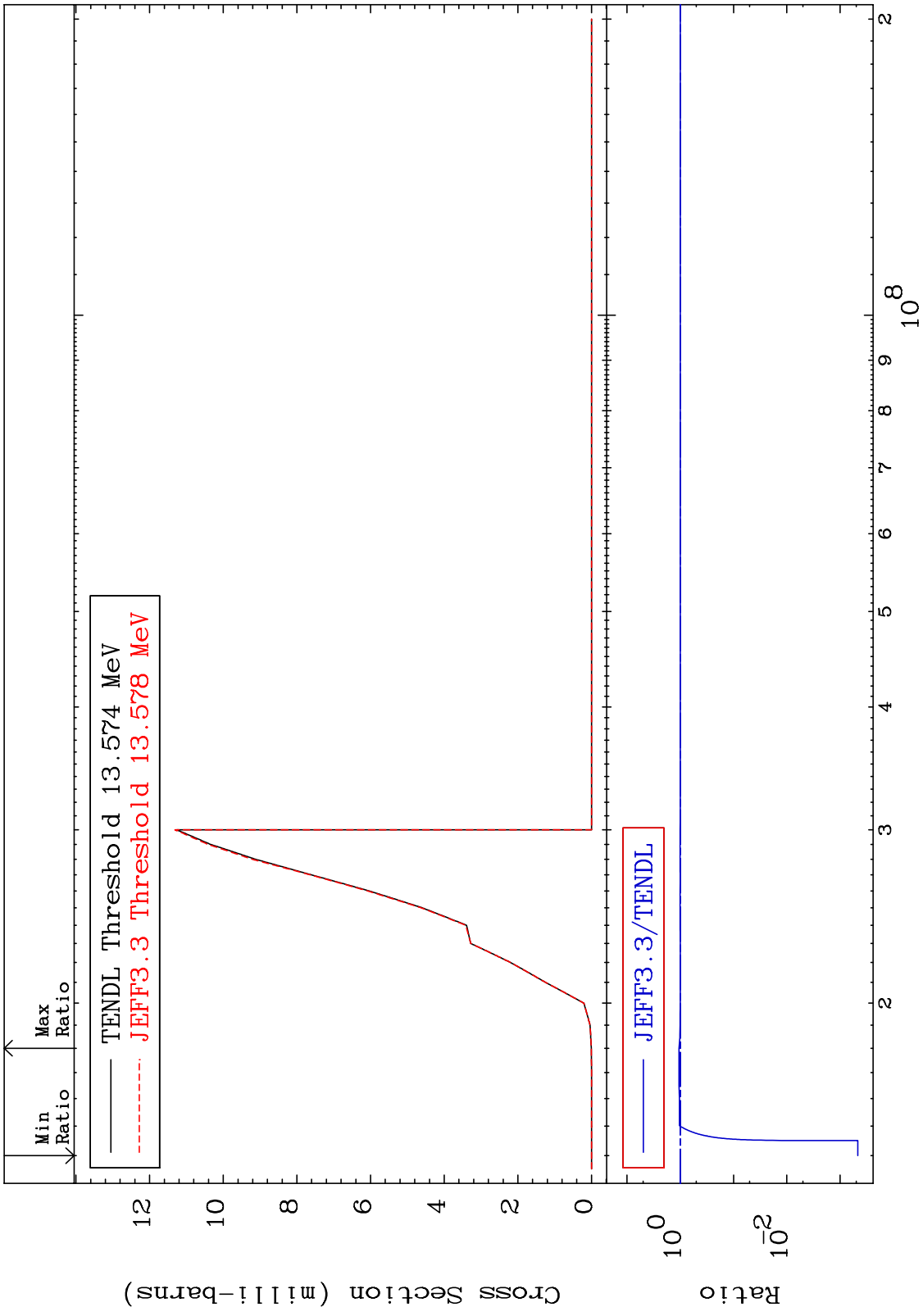


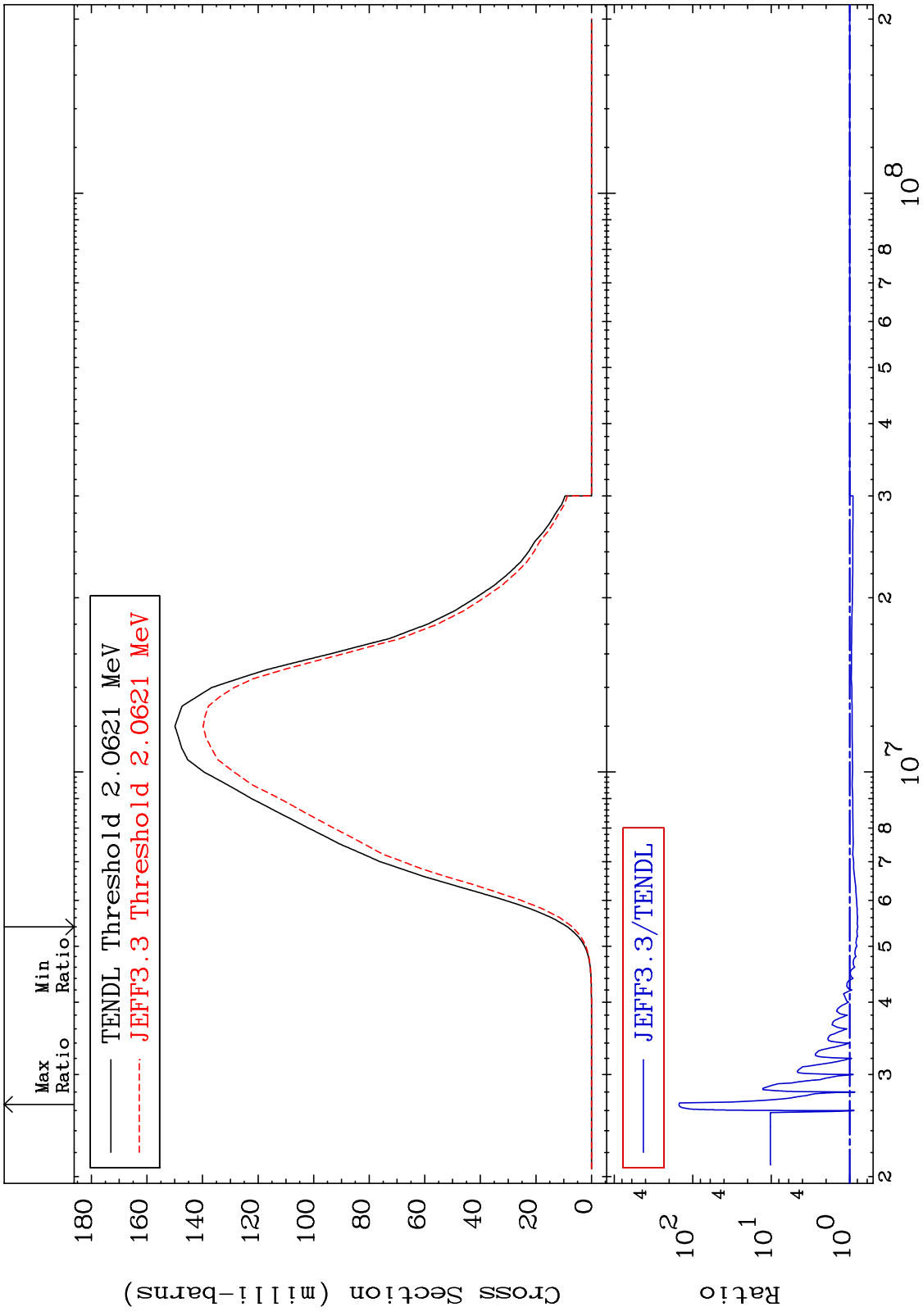
50 15-P -31

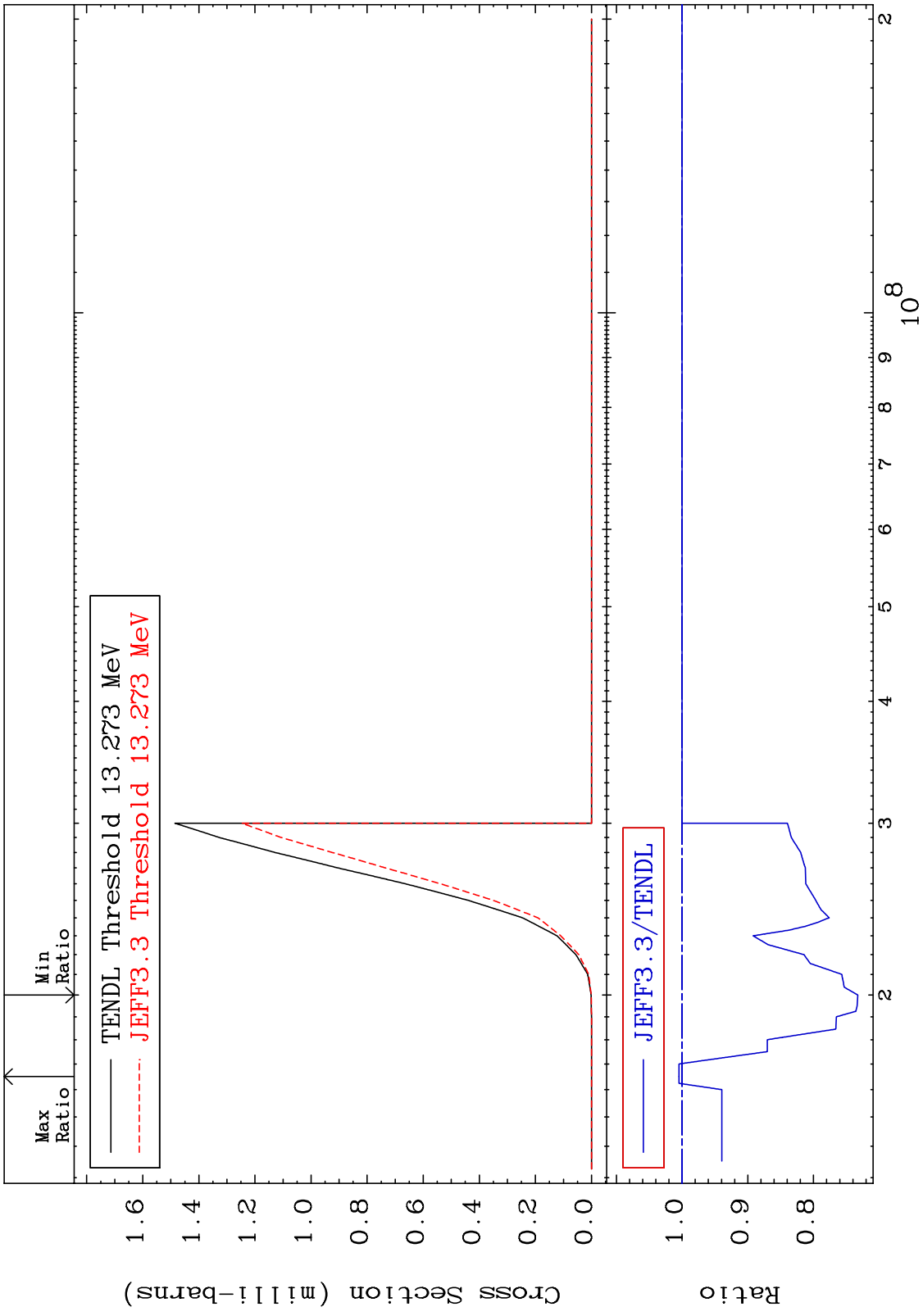
MAT 1525 (n,d) Cross Section 15-P -31  
 -34.20 To 9999. %





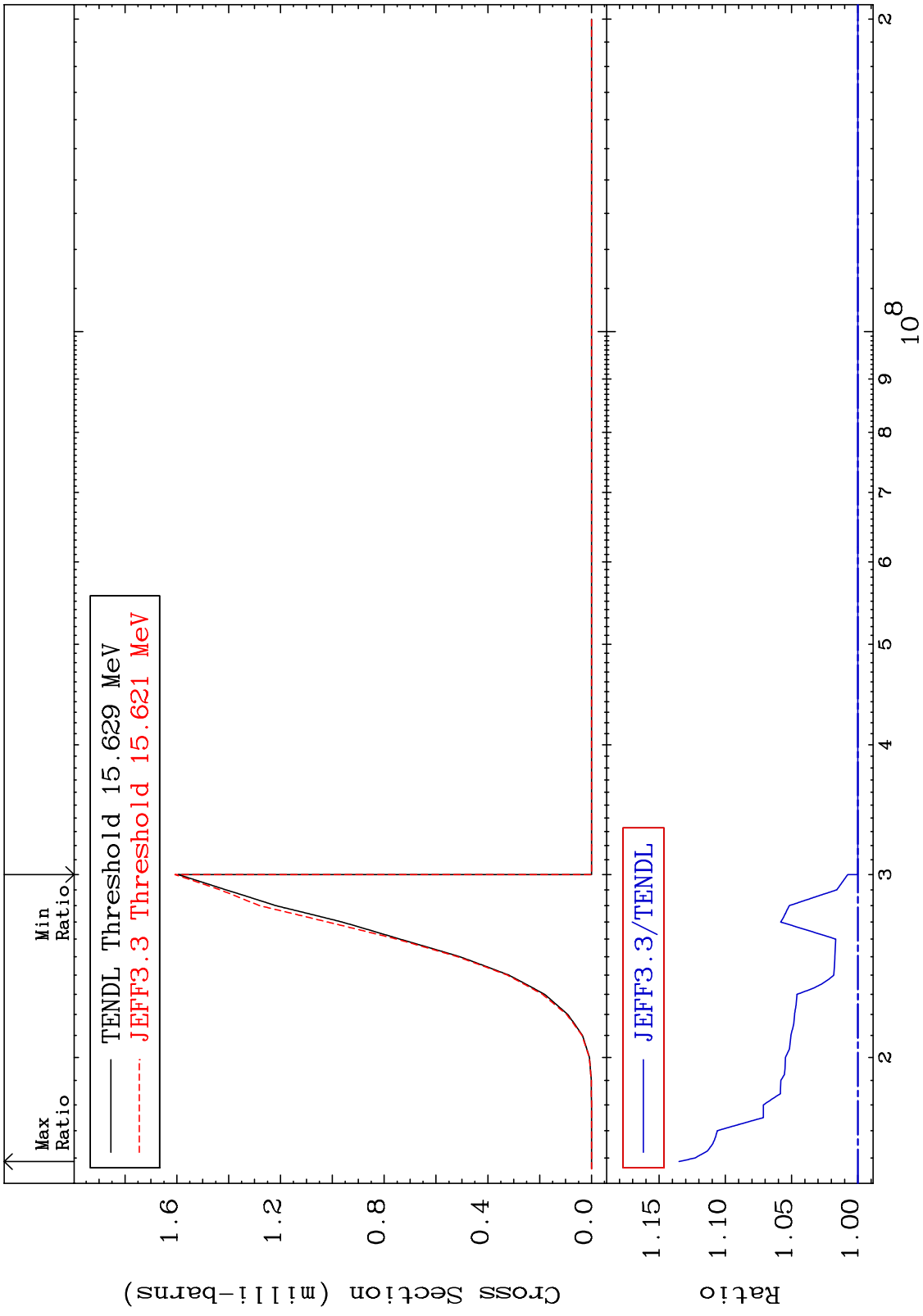




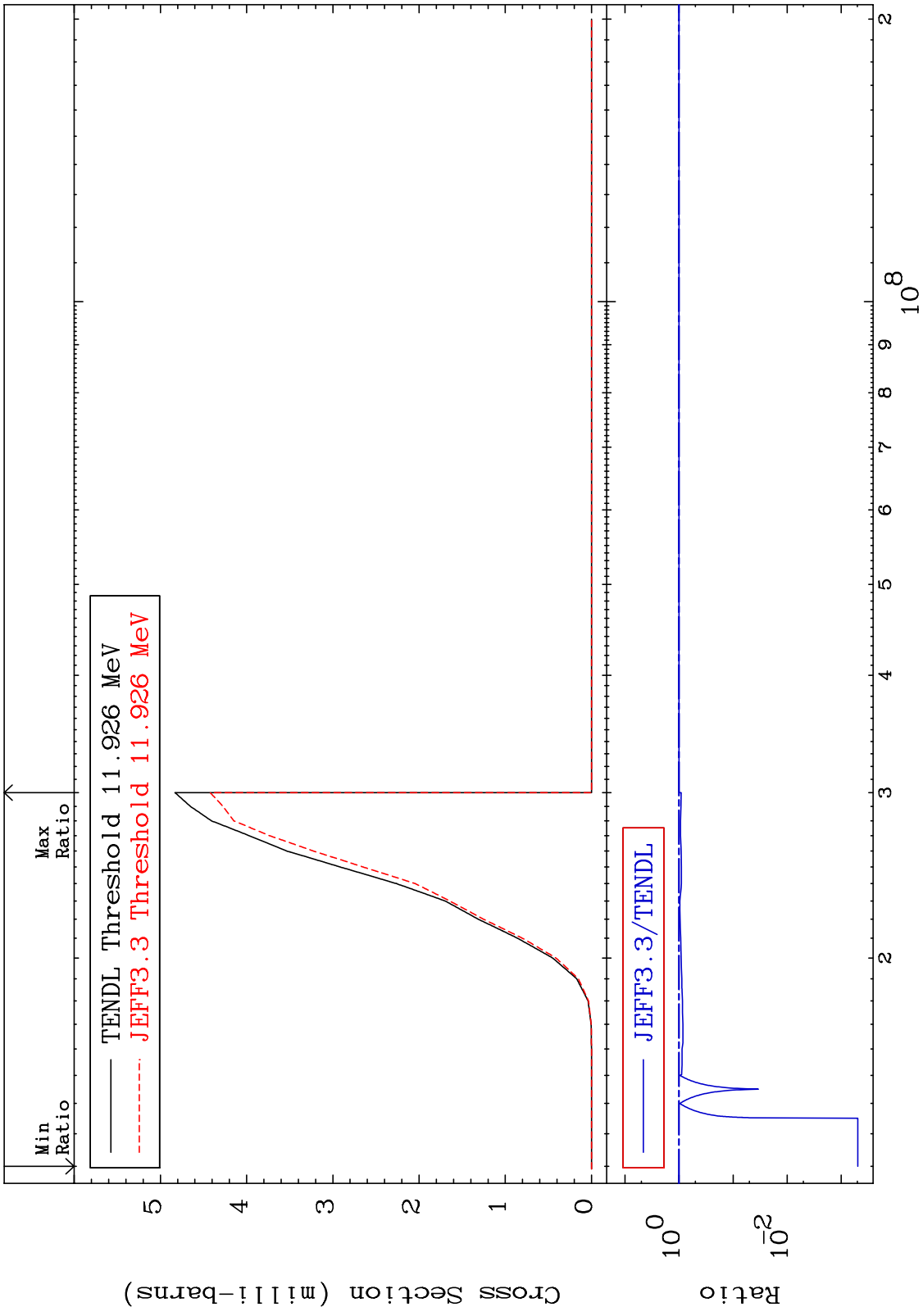




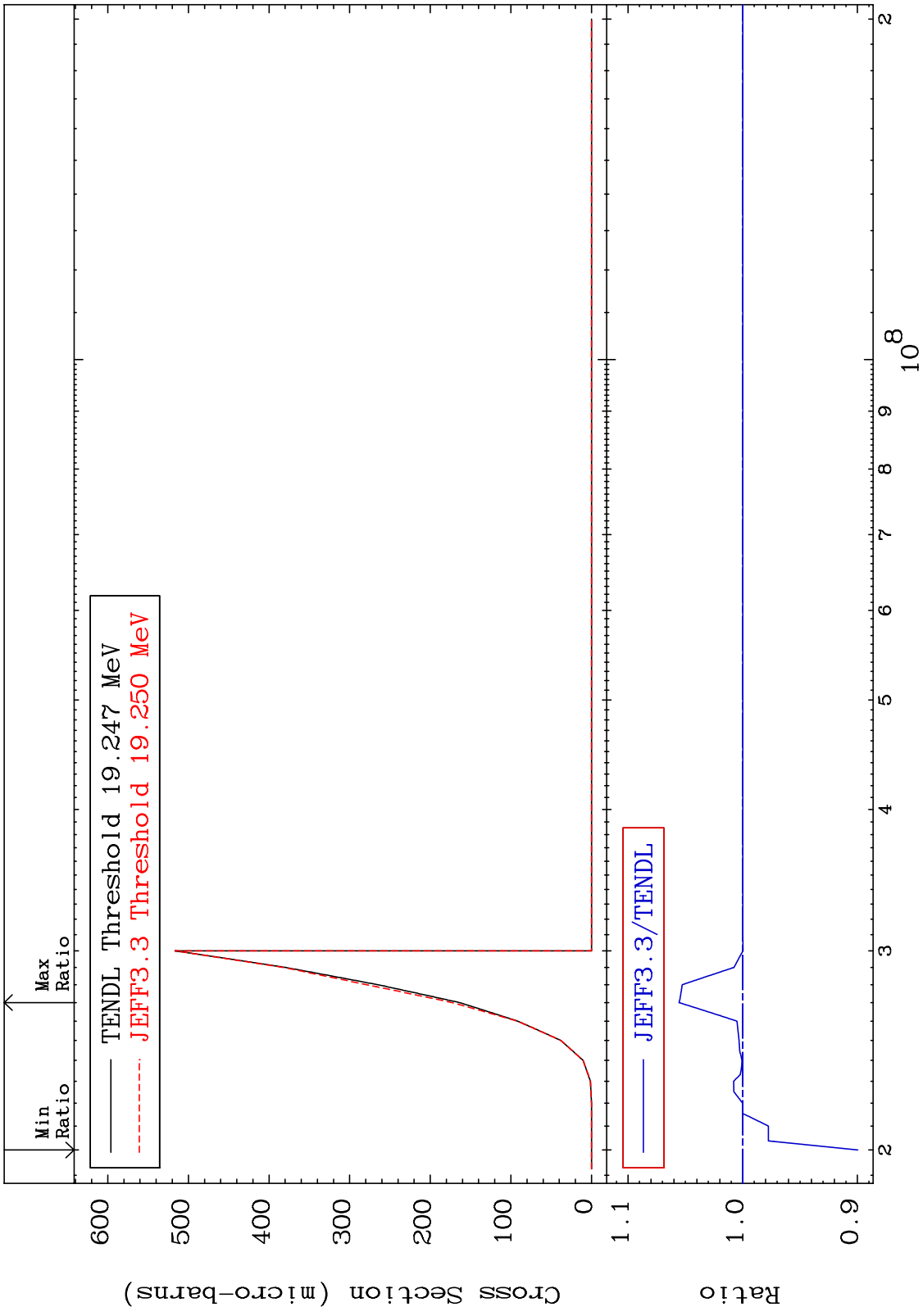
MAT 1525 (n,2p) Cross Section 15-P -31  
 0.000 To 13.50 %



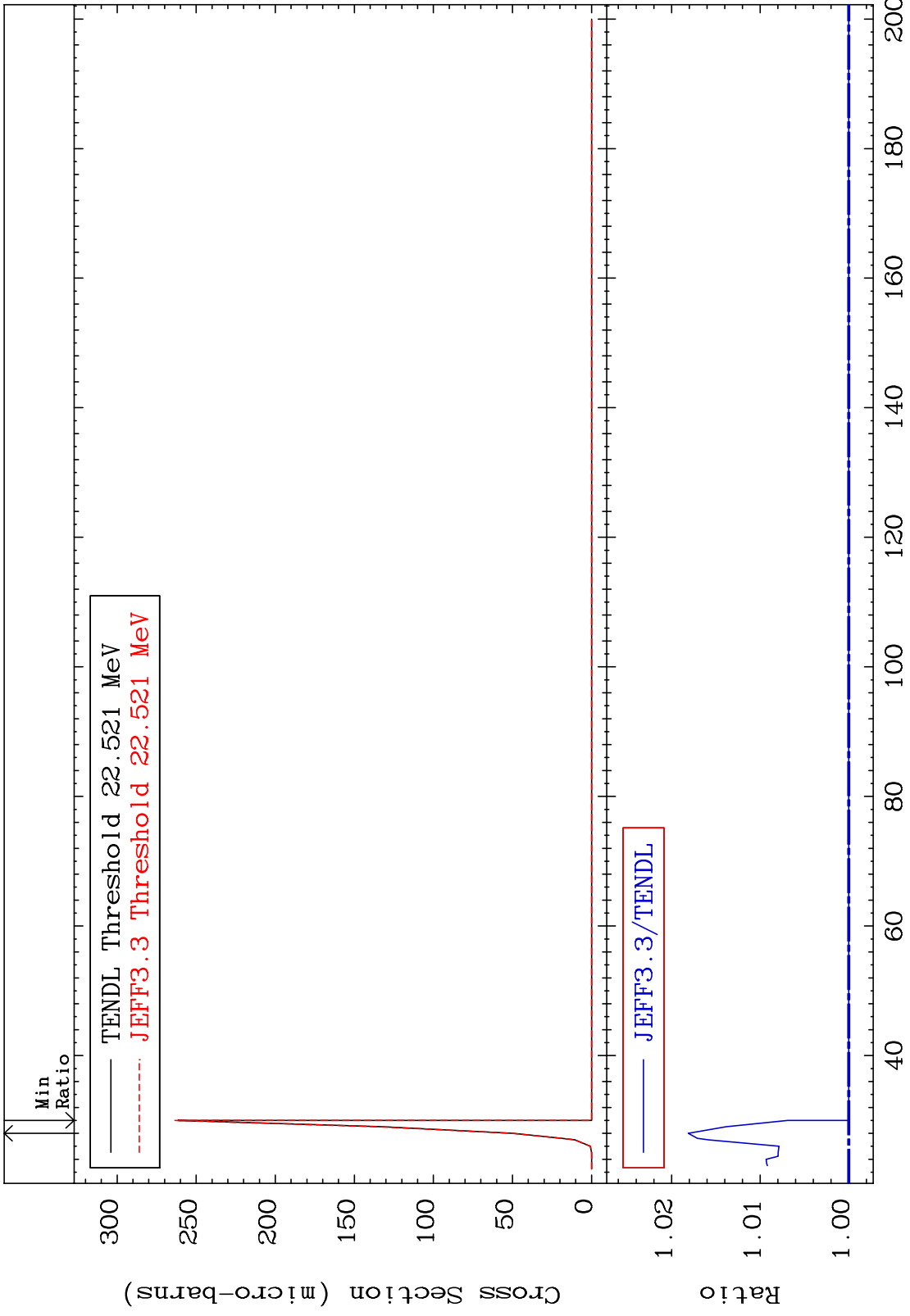
MAT 1525 (n,p)  $\alpha$  15-P -31  
 Cross Section -99.95 To 0.000 %

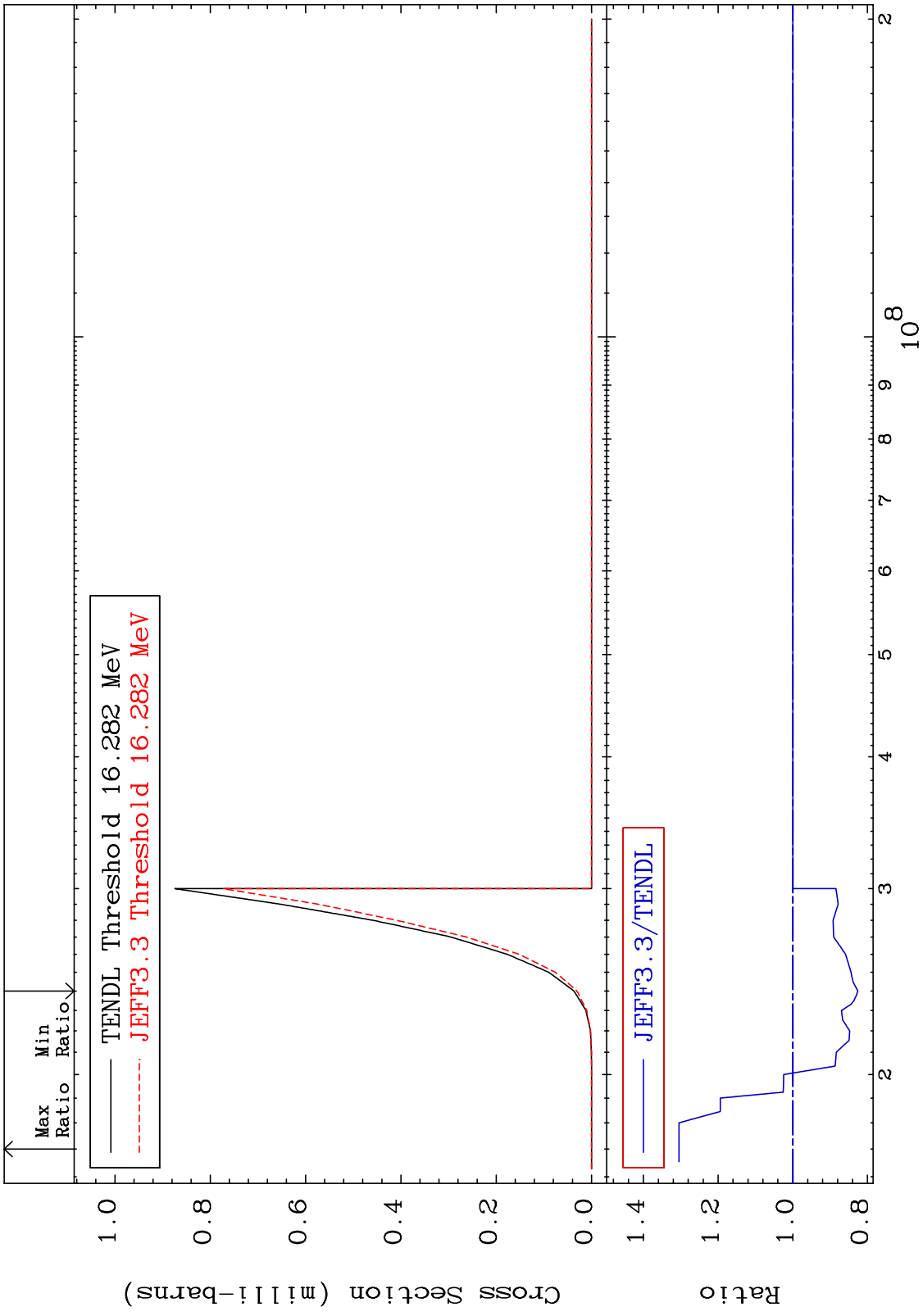


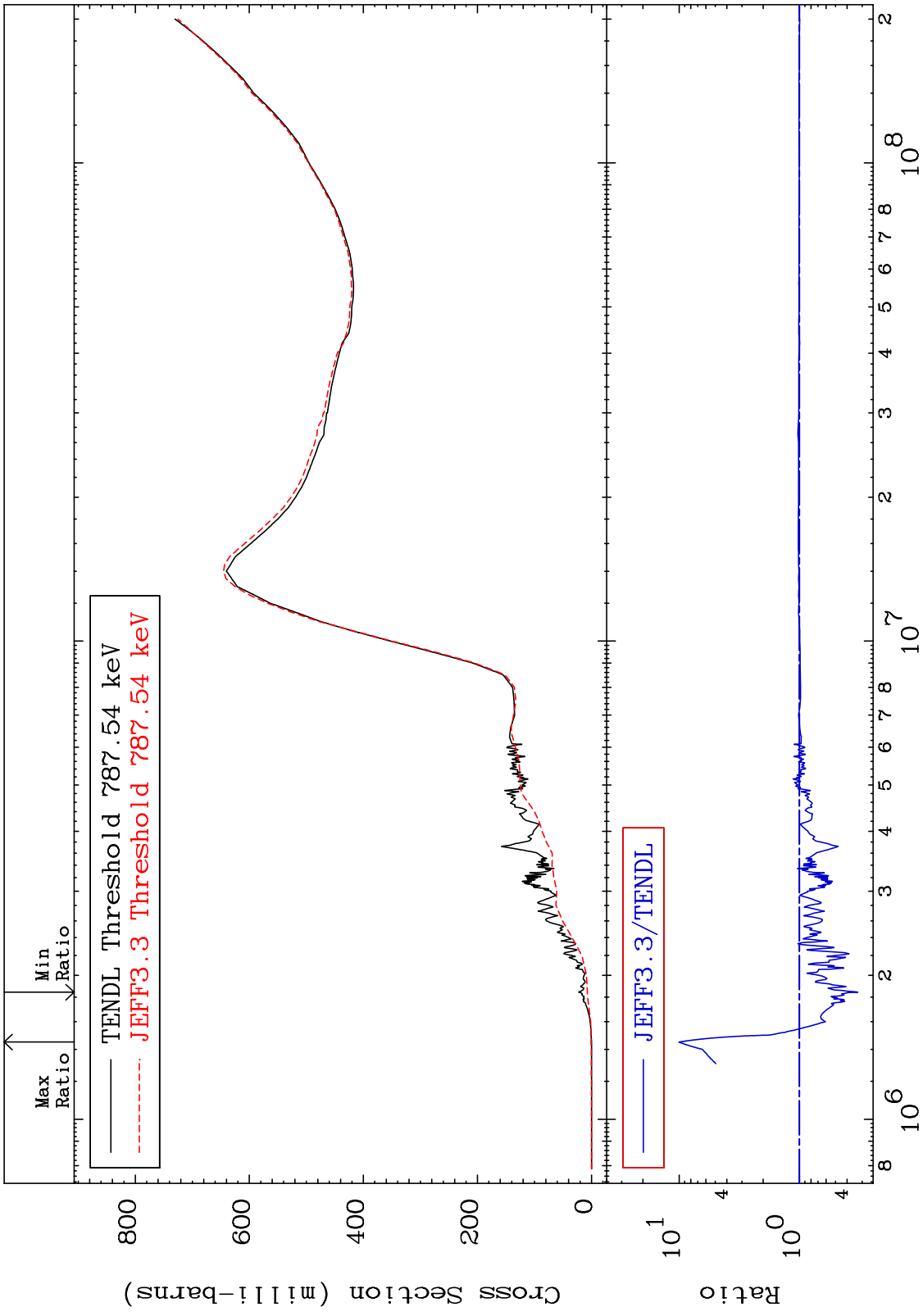
MAT 1525 (n,p) d 15-P -31  
 Cross Section -10.04 To 5.549 %



MAT 1525 (n,p) t 15-P -31  
Cross Section 0.000 To 1.811 %



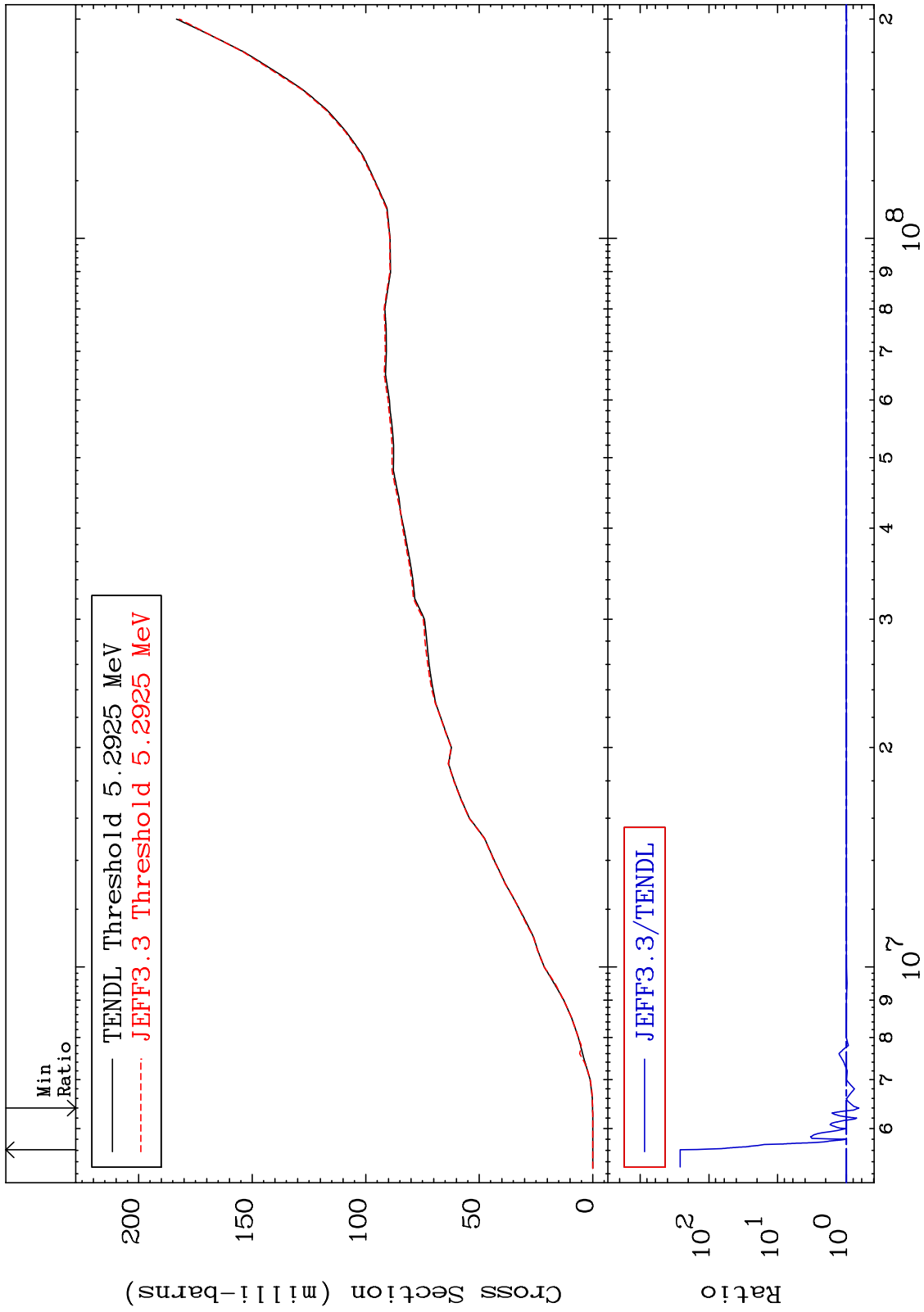




MAT 1525

Deuterium Production  
Cross Section

15-P -31  
-34.20 To 9999. %



62

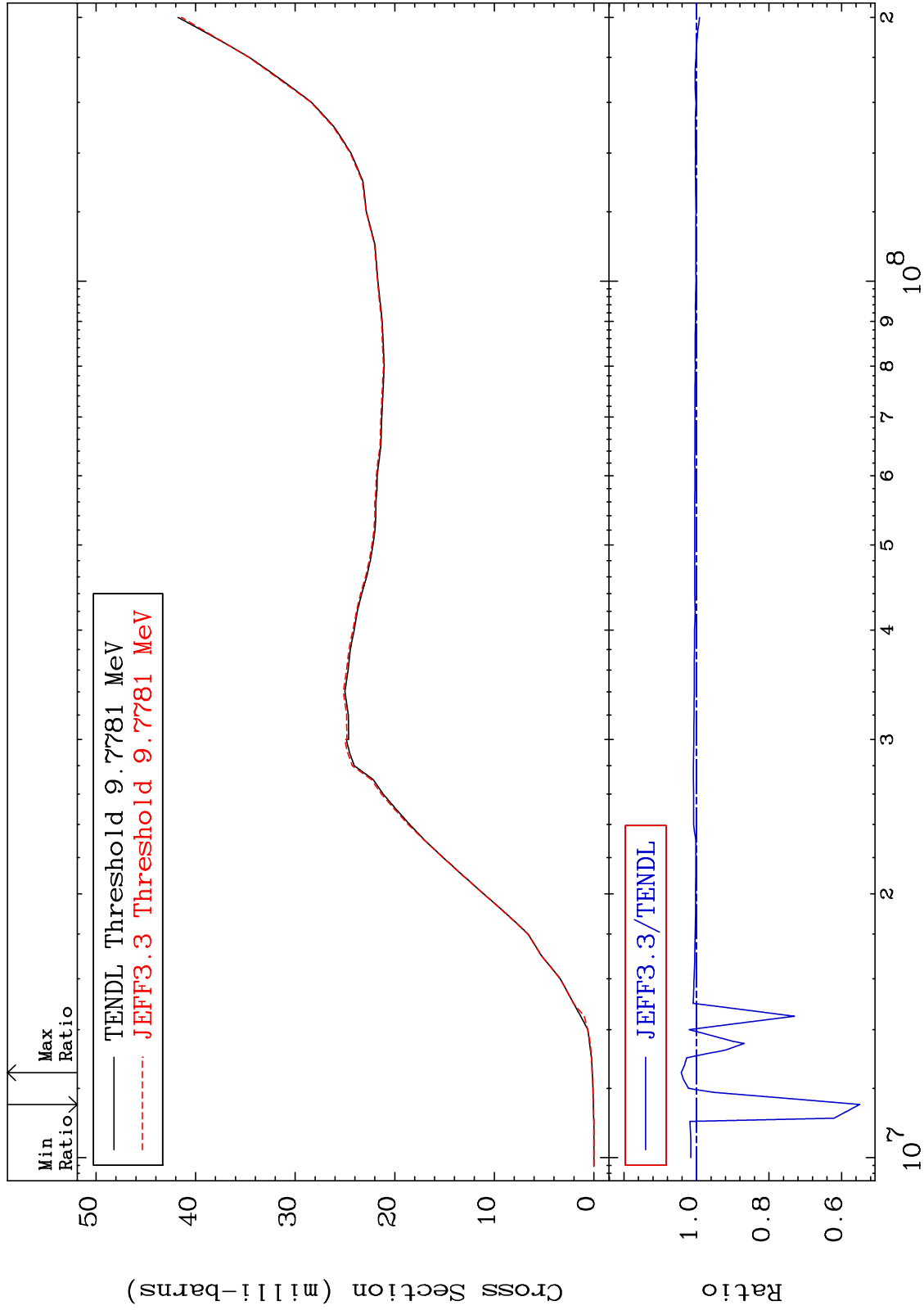
Incident Energy (eV)

15-P -31

MAT 1525

Tritium Production  
Cross Section

15-P -31  
-45.02 To 4.198 %

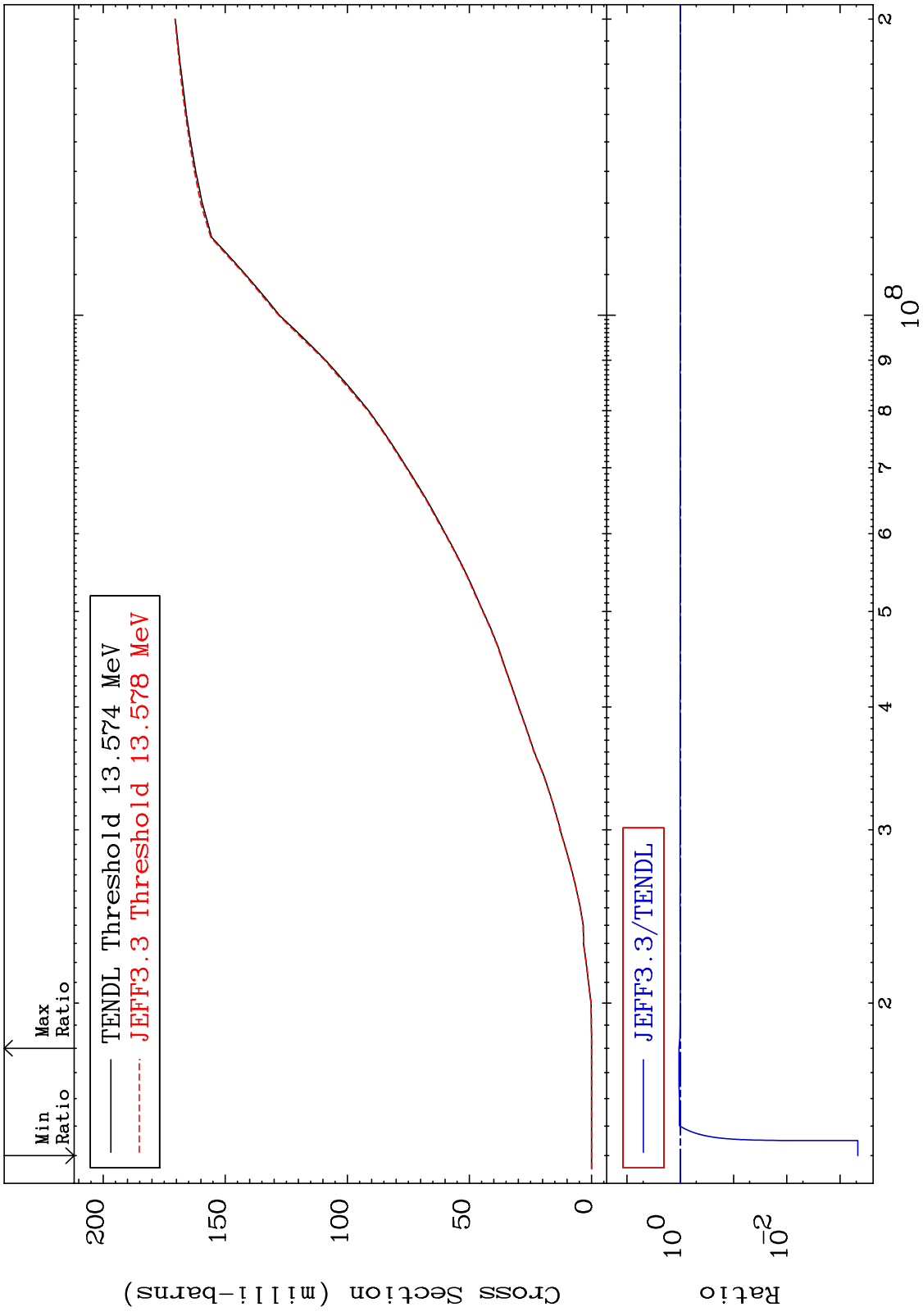


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Incident Energy (eV)

15-P -31

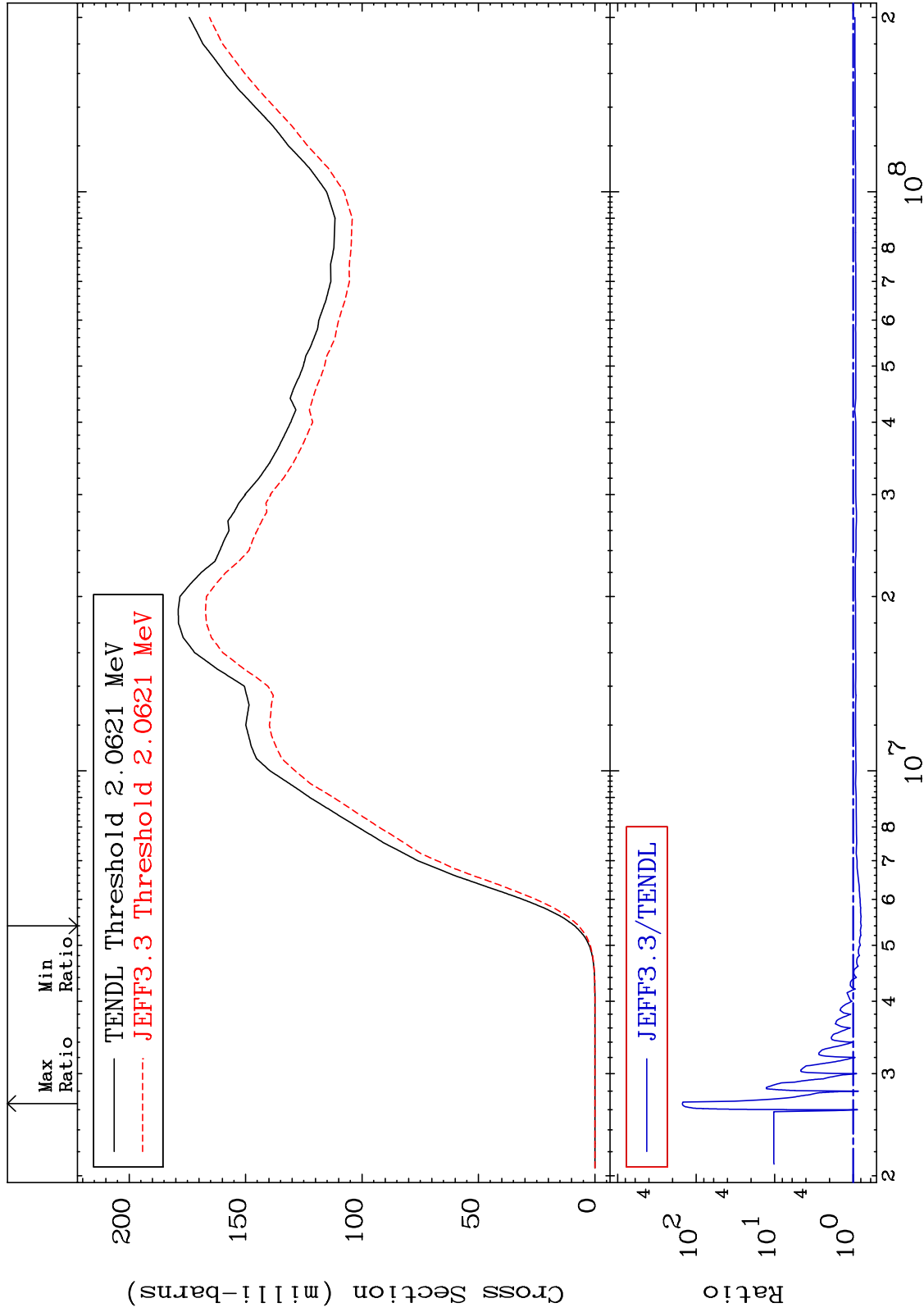




MAT 1525

He-4 Production  
Cross Section

15-P -31  
-21.13 To 9999. %



65

Incident Energy (eV)

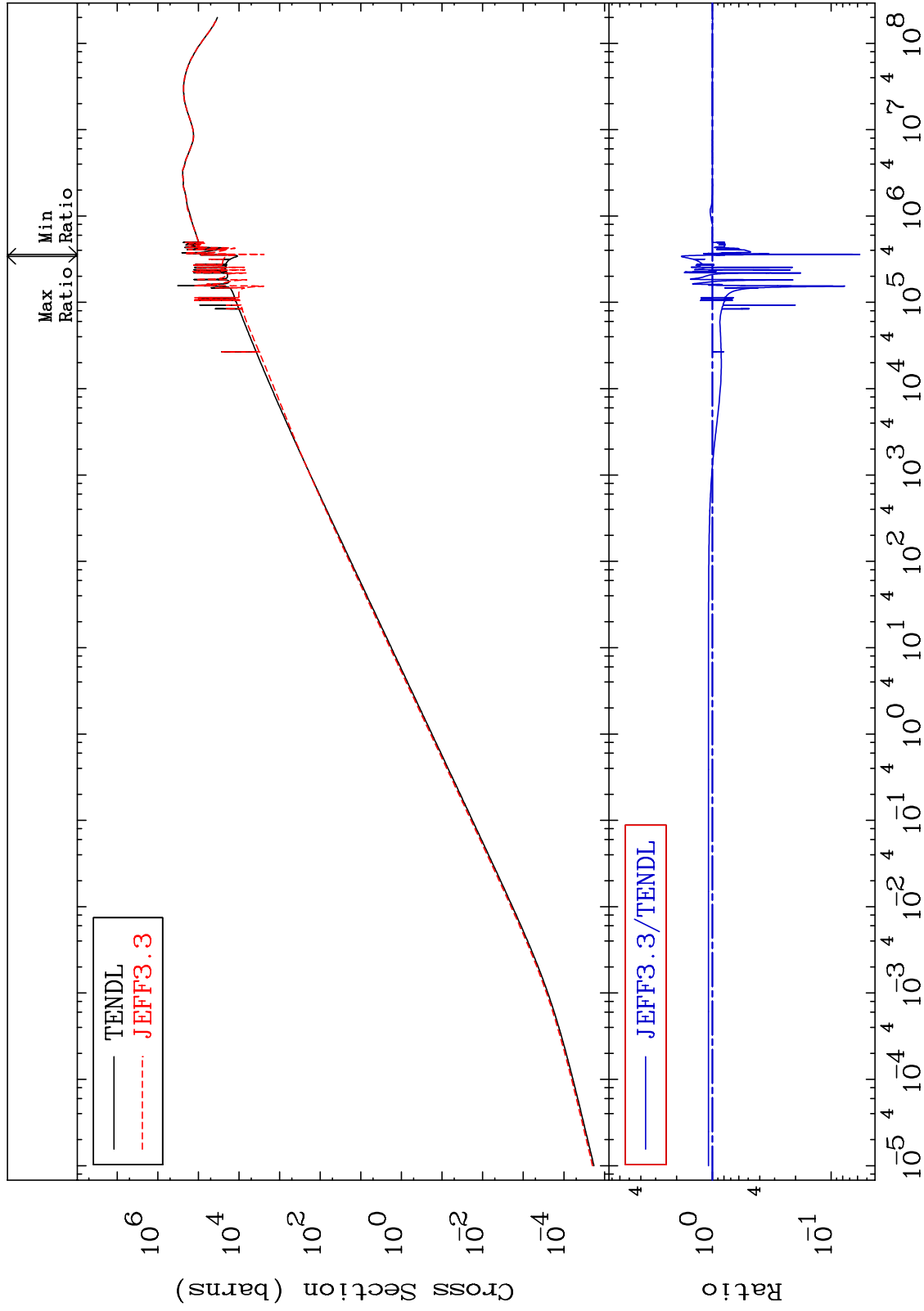
15-P -31



MAT 1525

Kerma elastic  
Cross Section

15-P -31  
-94.25 To 82.86 %



67

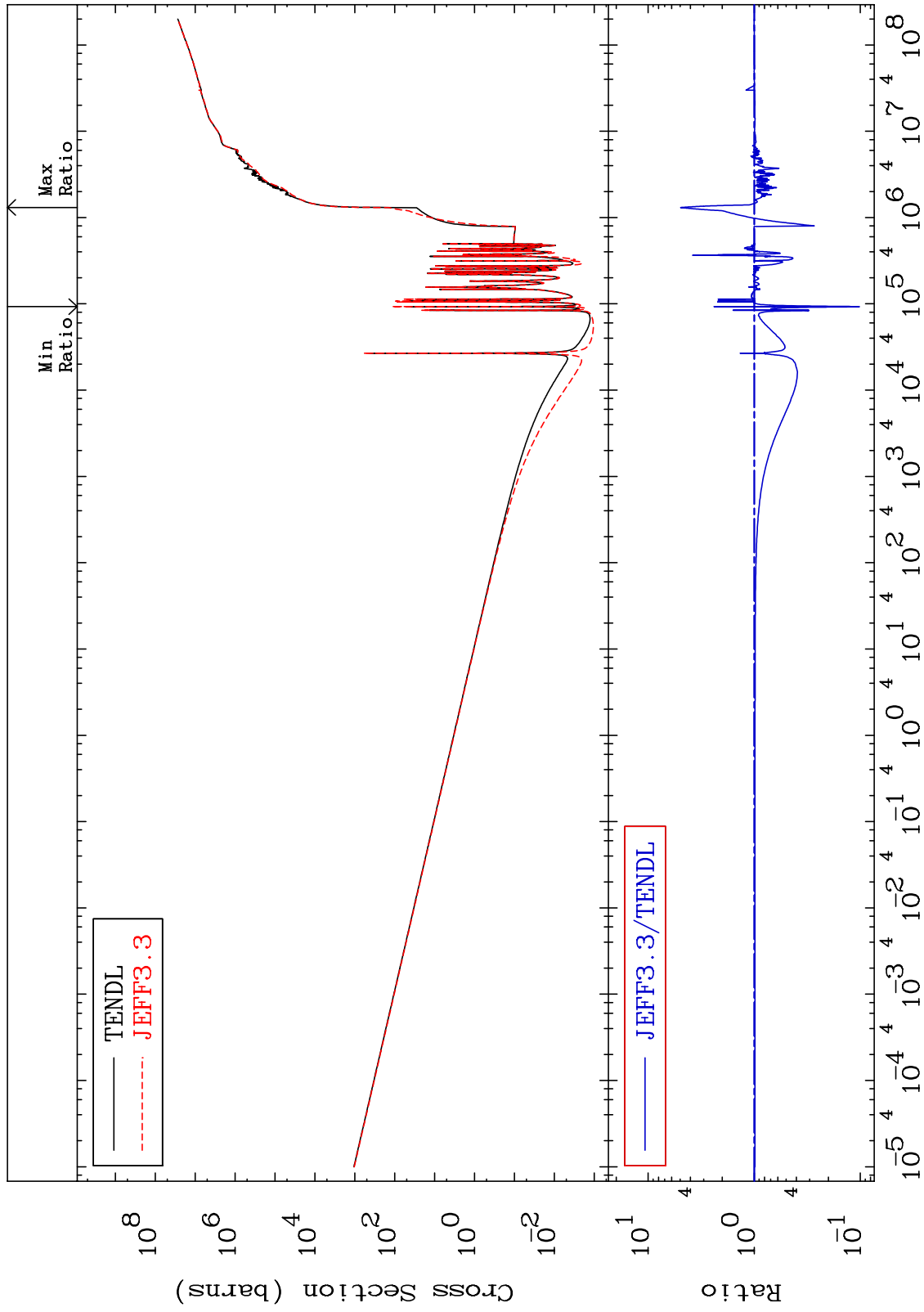
Incident Energy (eV)

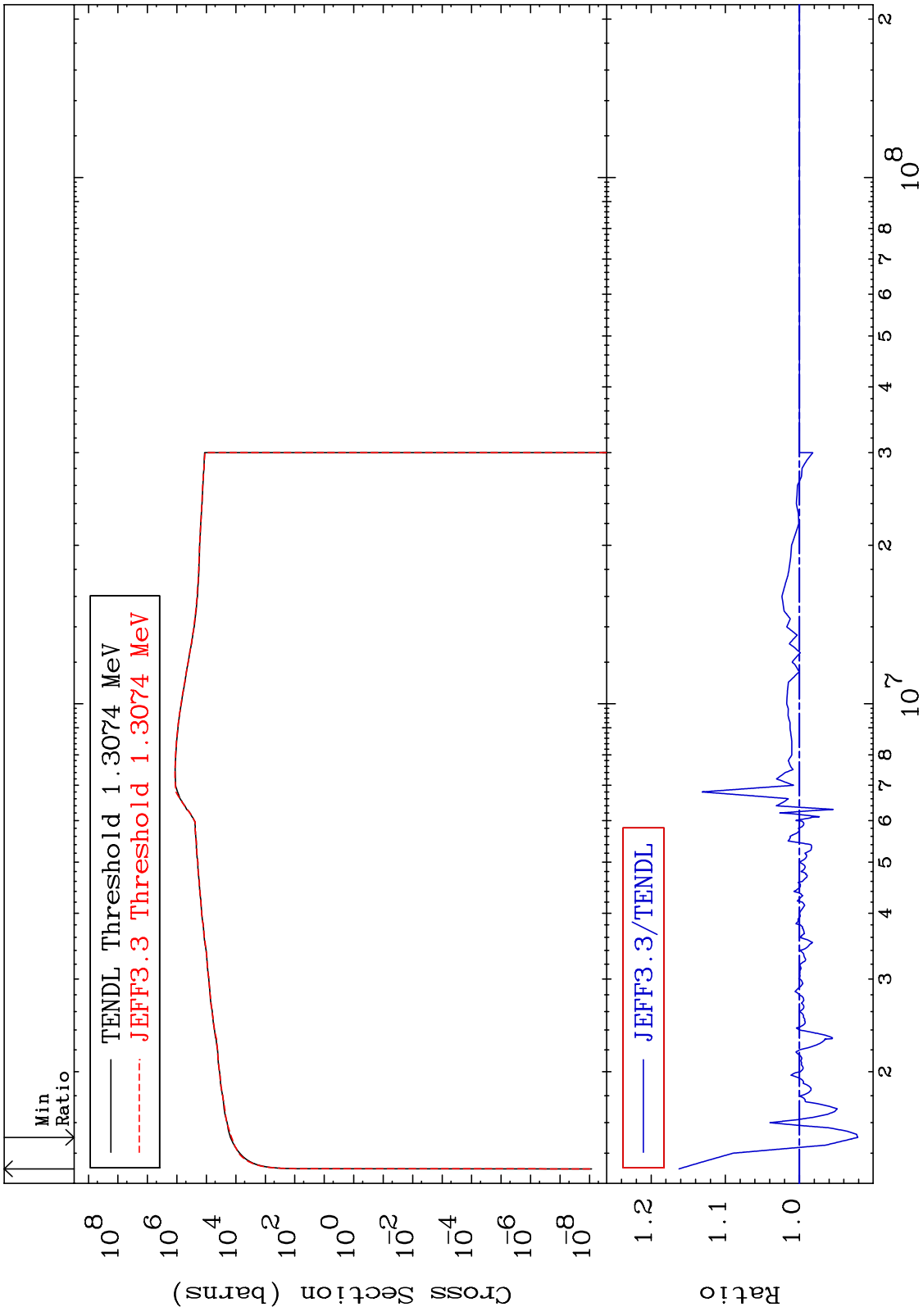
15-P -31

MAT 1525

Kerma non-elastic (all but mt2)  
Cross Section

15-P -31  
-89.71 To 394.3 %

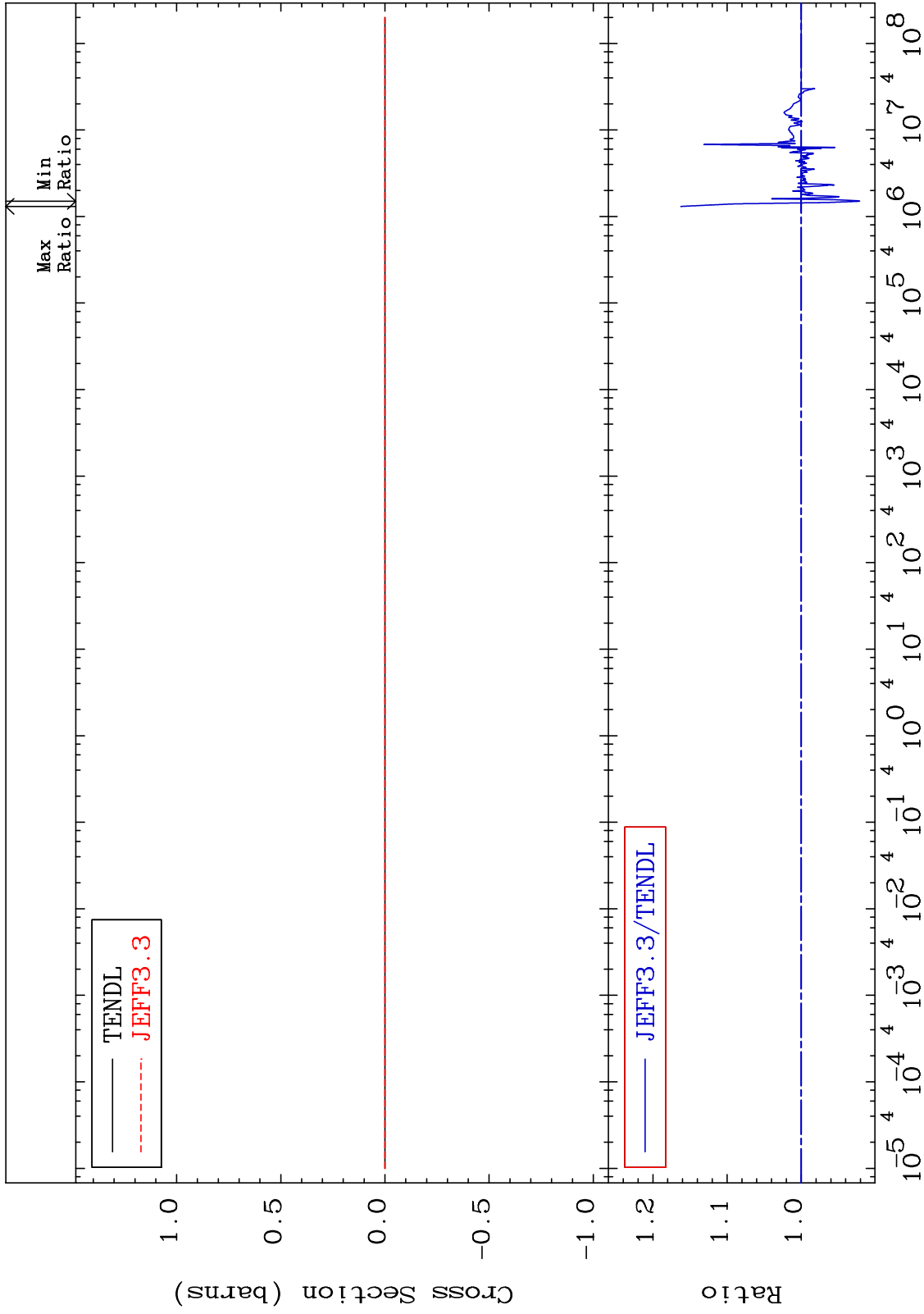




MAT 1525

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

15-P -31  
-7.882 To 16.23 %



70

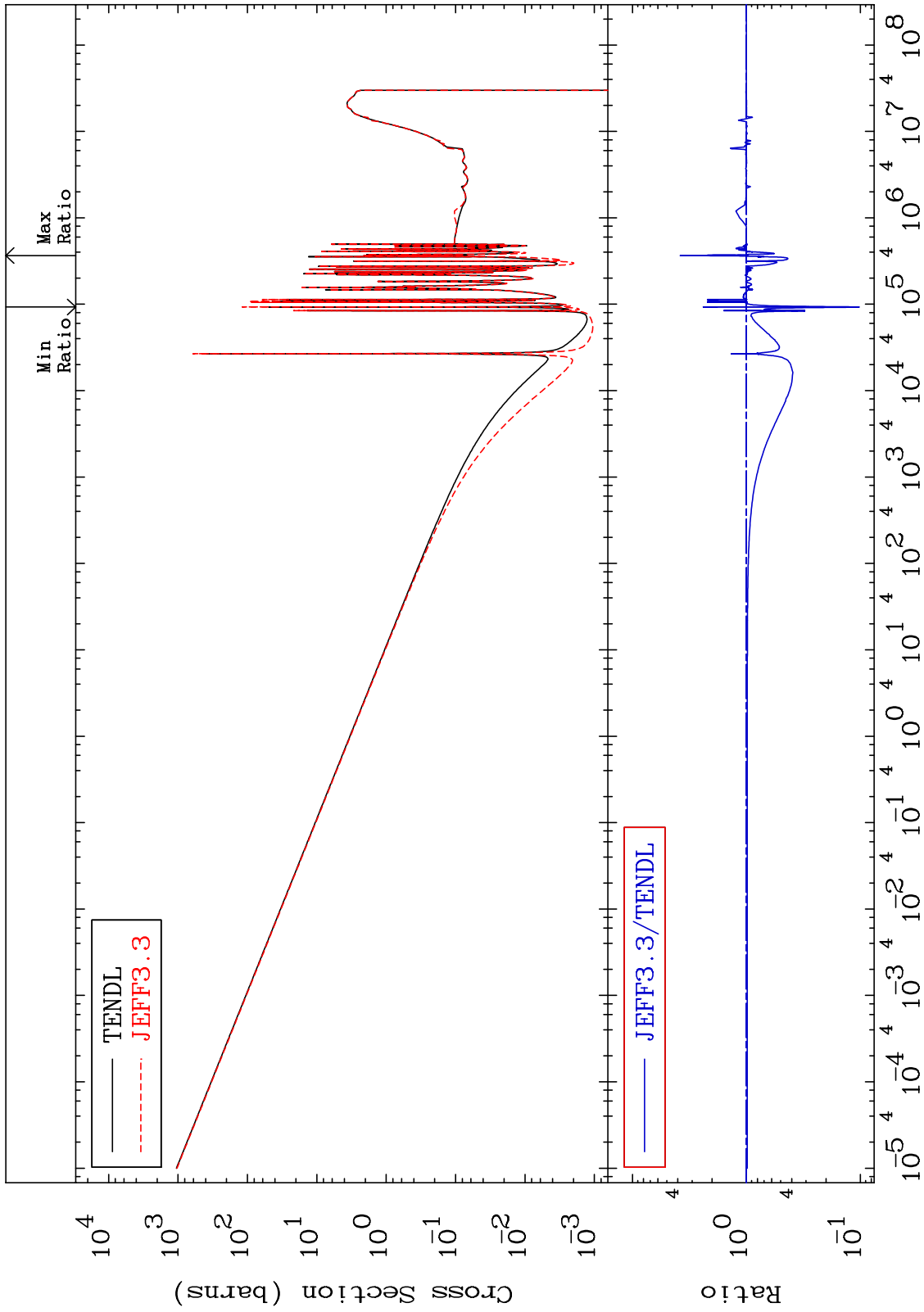
Incident Energy (eV)

15-P -31

MAT 1525

Kerma capture (mt102)  
Cross Section

15-P -31  
-89.71 To 281.3 %



71

Incident Energy (eV)

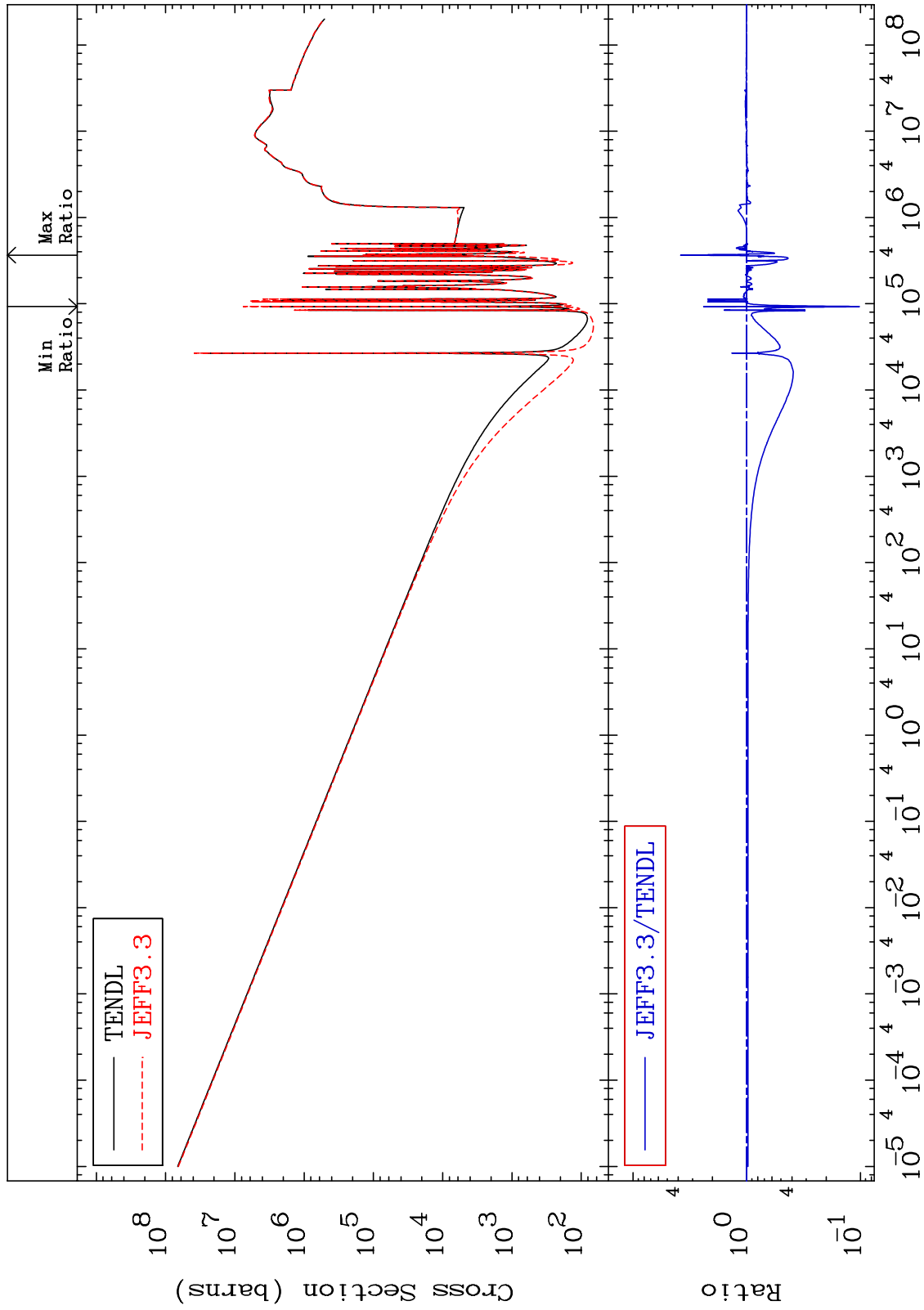
15-P -31



MAT 1525

Total photon (eV-barns)  
Cross Section

15-P -31  
-89.72 To 281.3 %



72

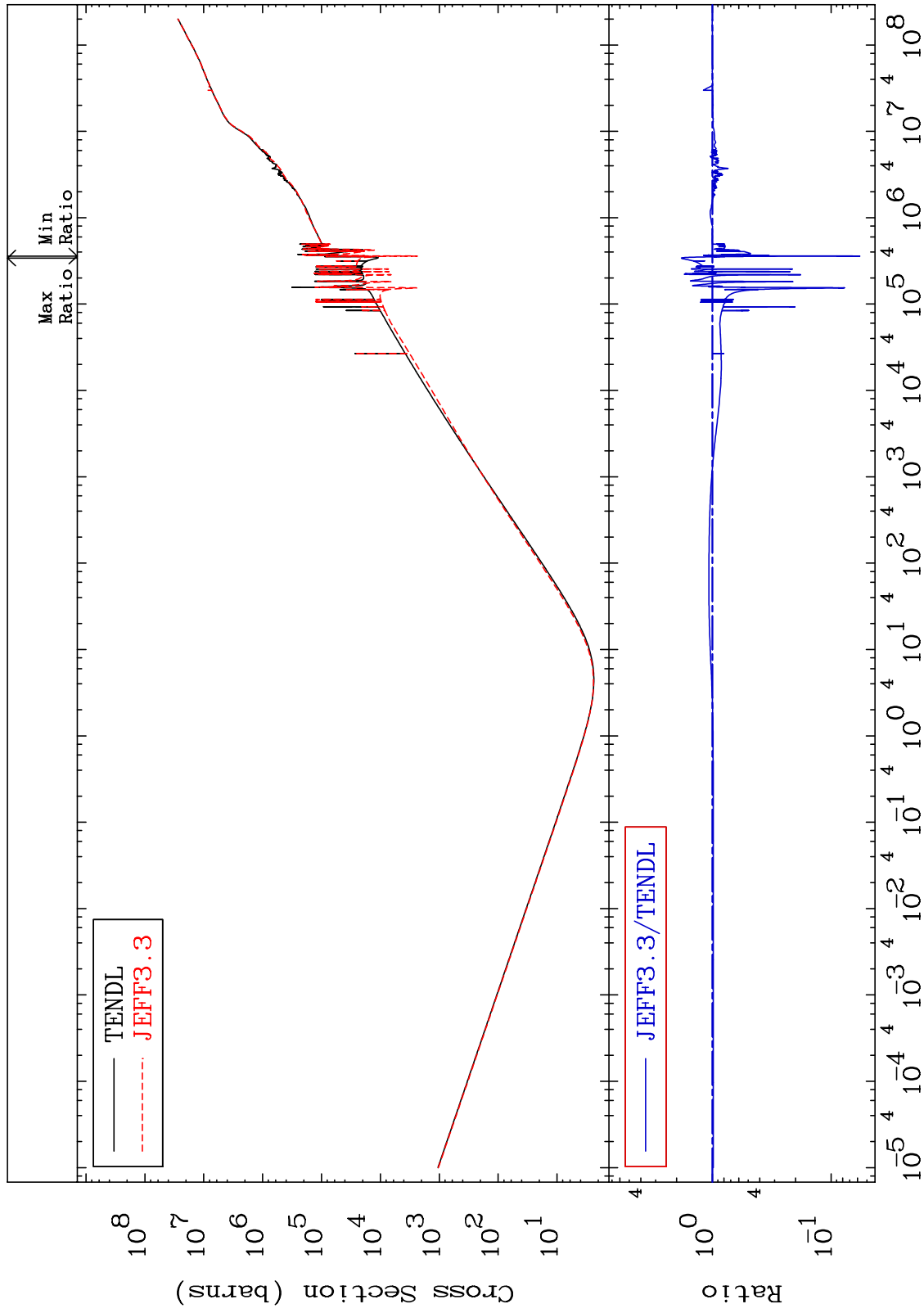
Incident Energy (eV)

15-P -31

MAT 1525

Total kinematic kerma (high limit)  
Cross Section

15-P -31  
-94.25 To 82.86 %



73

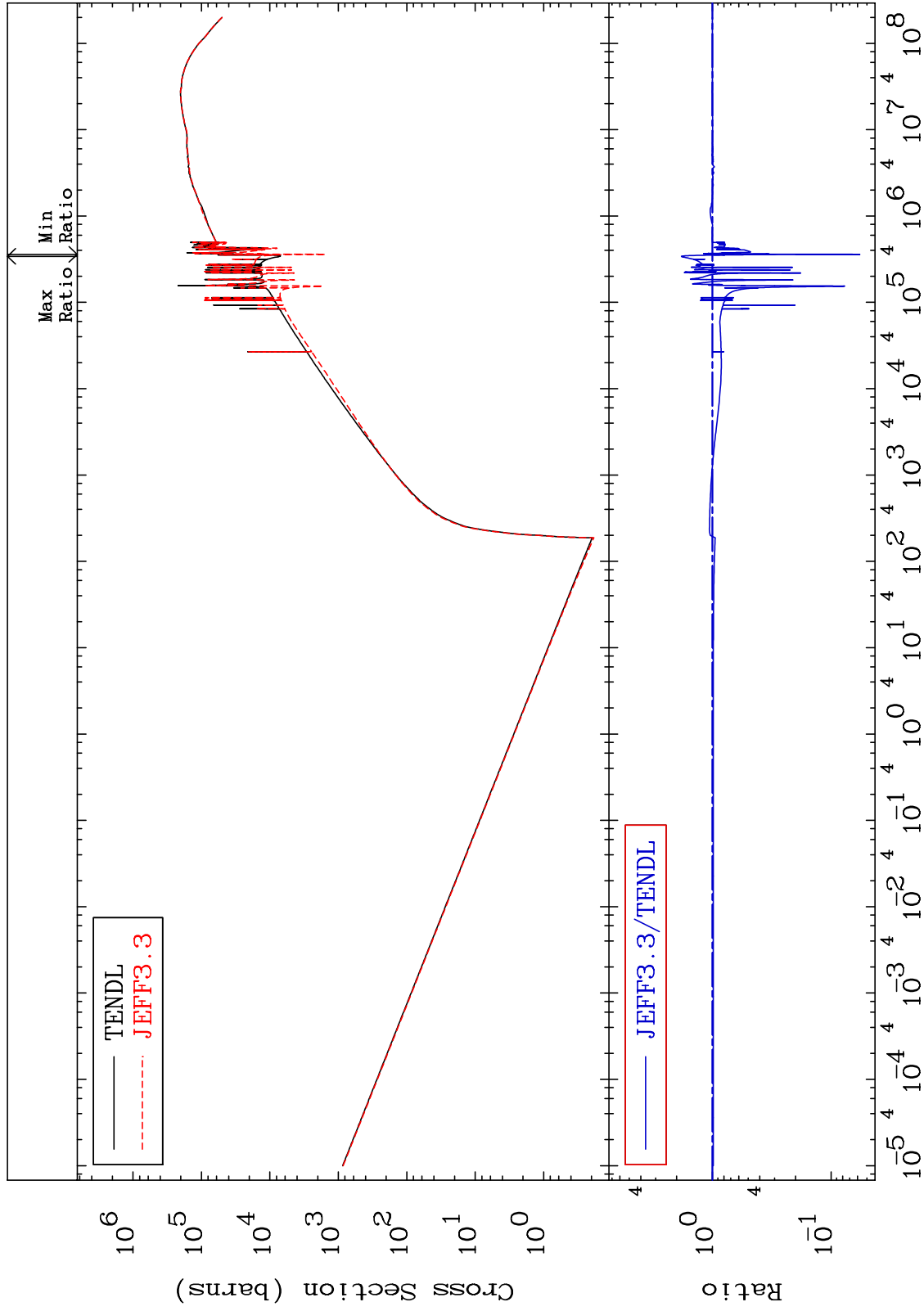
Incident Energy (eV)

15-P -31

MAT 1525

Dpa total (eV-barns)  
Cross Section

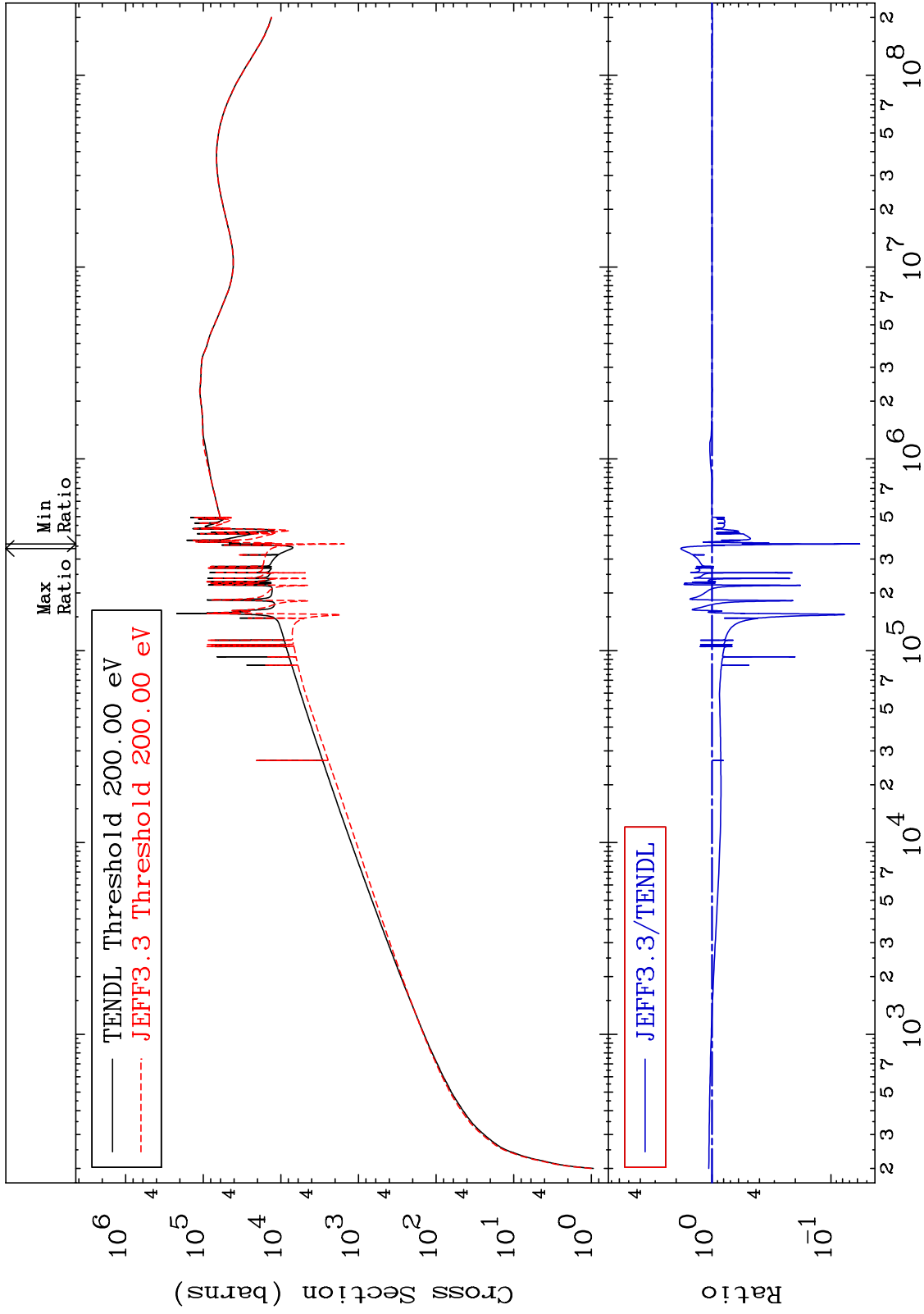
15-P -31  
-94.25 To 82.86 %



MAT 1525

Dpa elastic (mt2)  
Cross Section

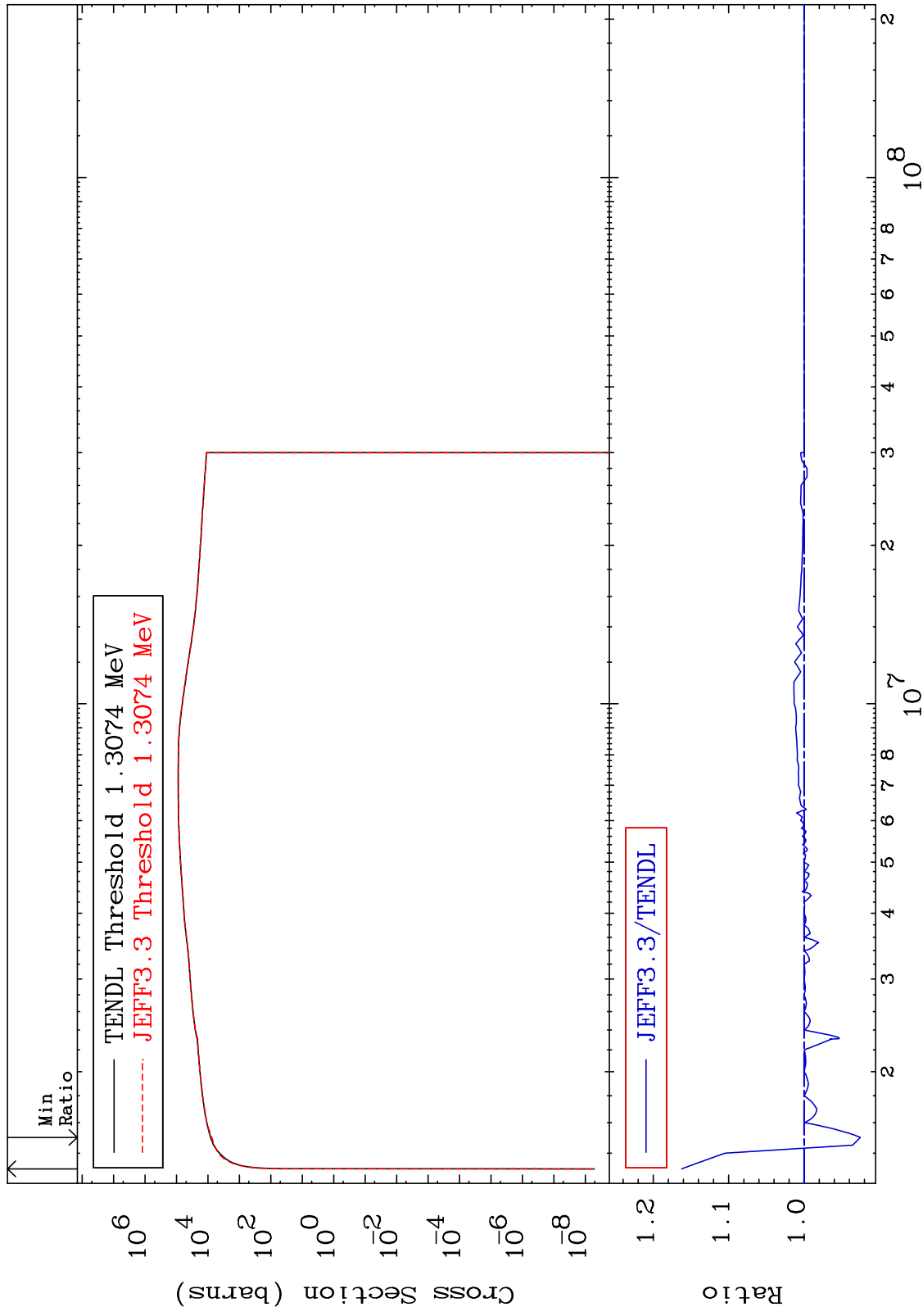
15-P -31  
-94.25 To 82.86 %



MAT 1525

Dpa inelastic (mt51-91)  
Cross Section

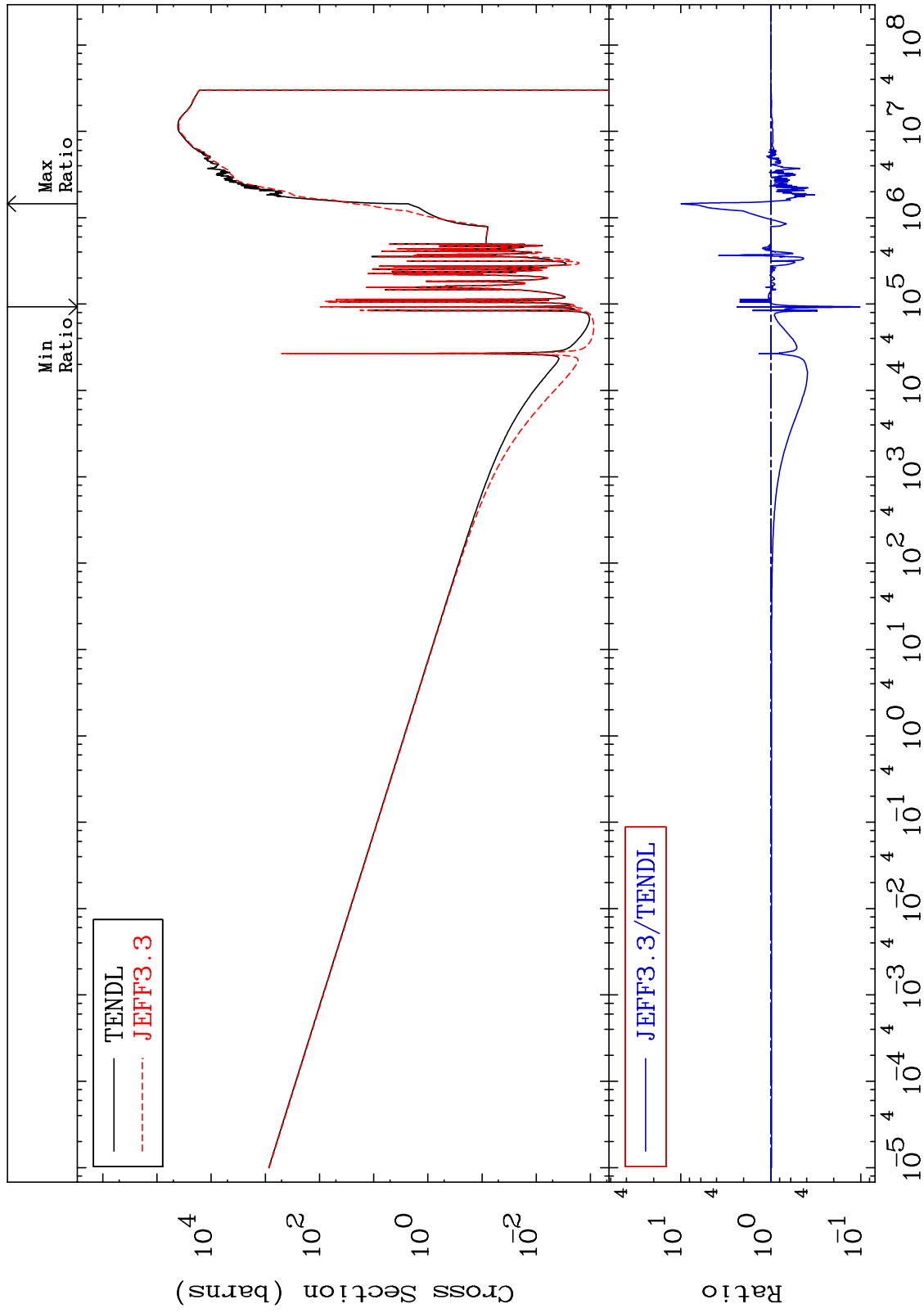
15-P -31  
-7.459 To 16.23 %



MAT 1525

Dpa disappearance (mt102 -120)  
Cross Section

15-P -31  
-89.71 To 887.0 %



77

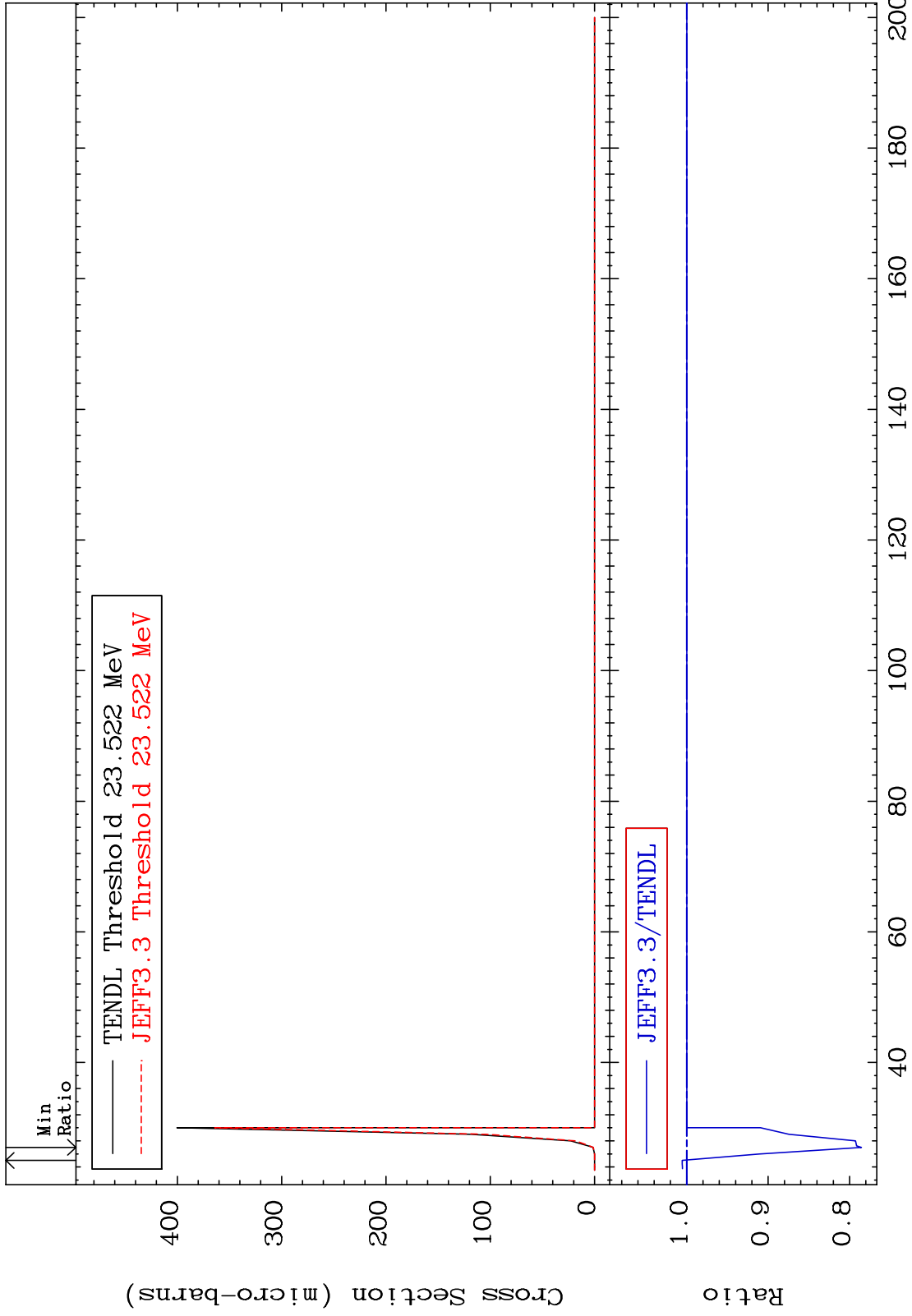
Incident Energy (eV)

15-P -31

MAT 1525

15-P -31

(n,2n)  $\alpha$ :13-Al-26g  
Radionuclide Production Cross Section -21.46 To 0.551 %



78

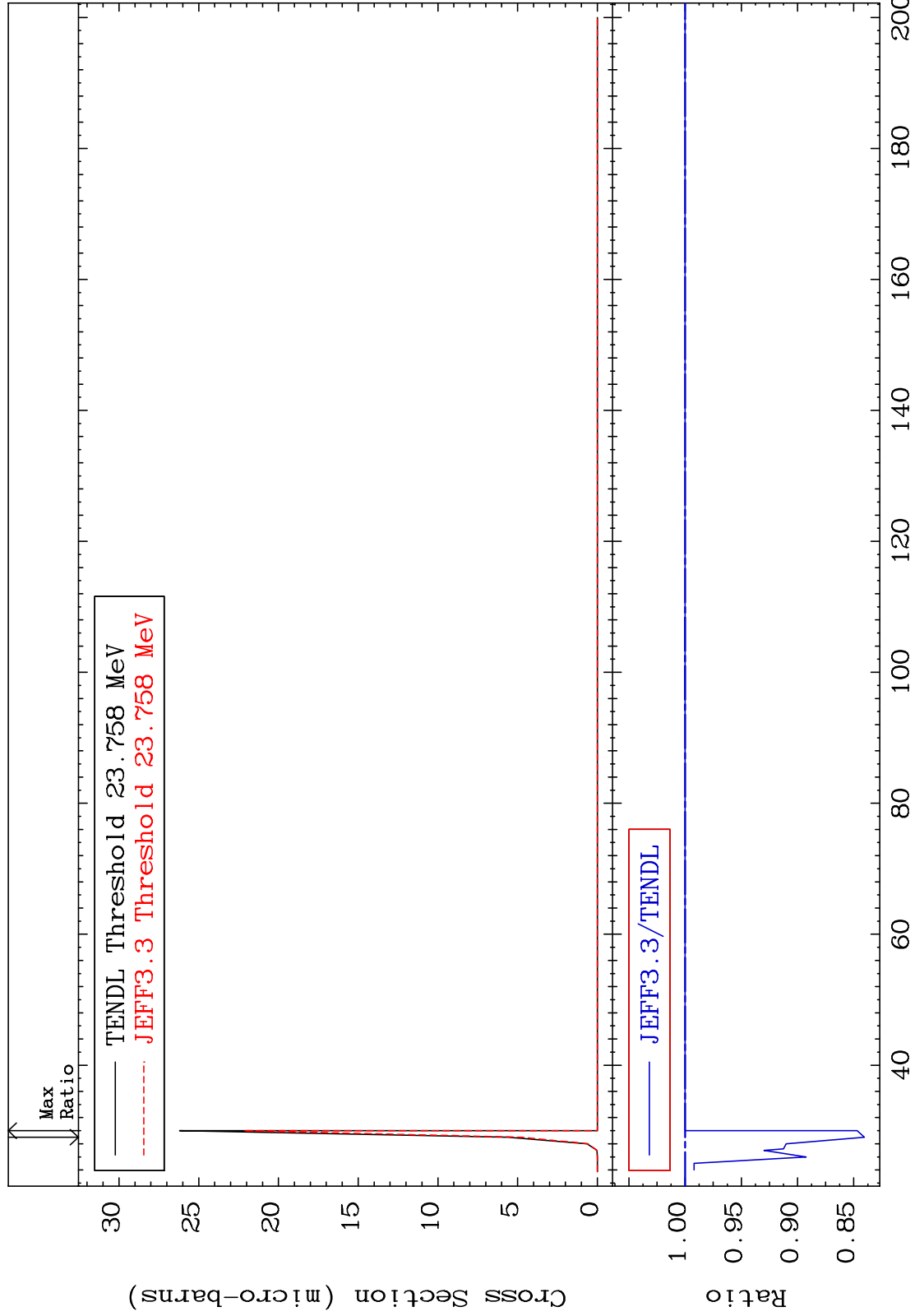
15-P -31

MAT 1525

(n,2n)  $\alpha$ :13-Al-26m1

15-P -31

Radionuclide Production Cross Section -15.95 To 0.000 %



79

Incident Energy (MeV)

15-P -31