

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

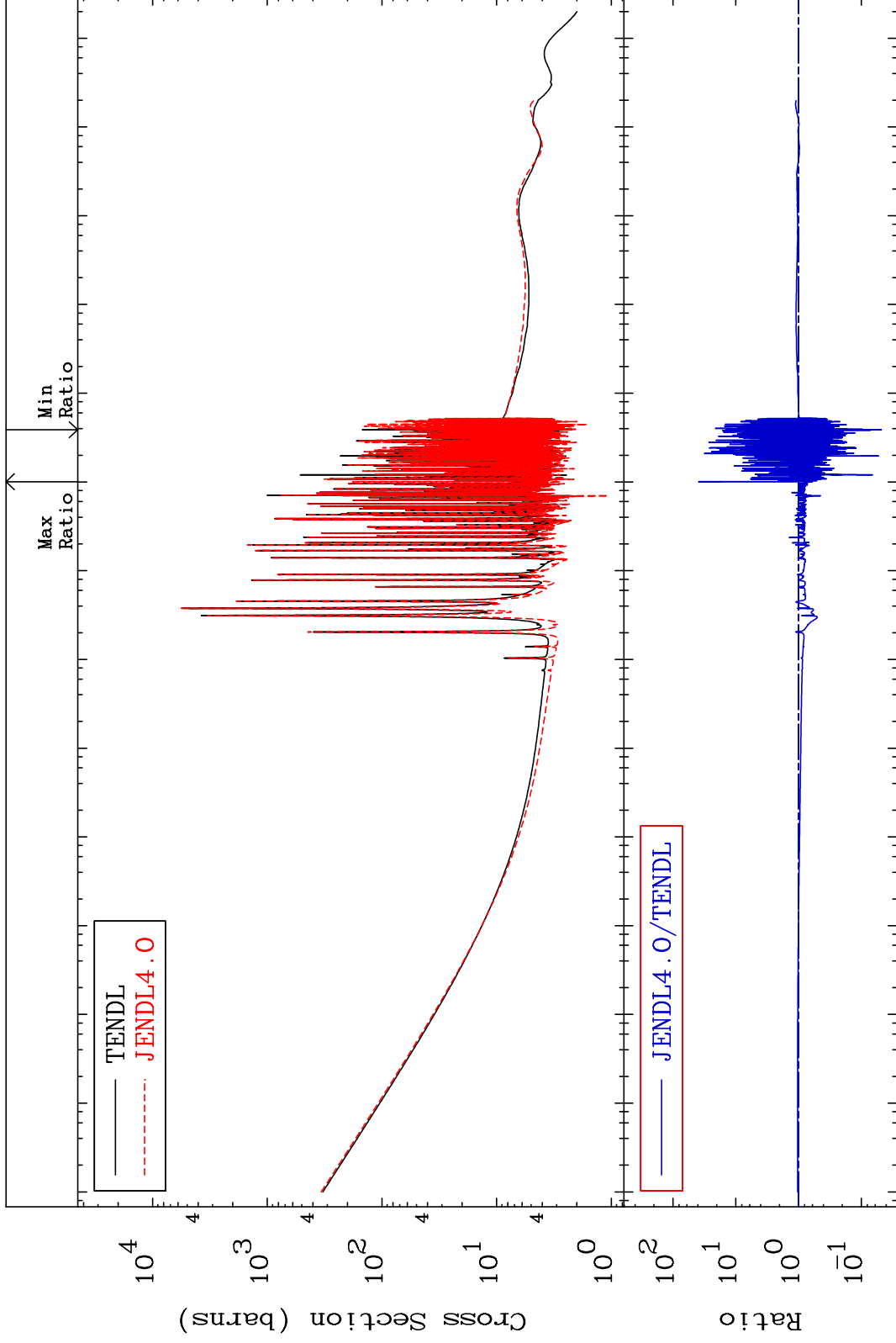
MAT 5325

Total

53-I -127

Cross Section

-95.26 To 3861. %



Incident Energy (eV)

53-I -127

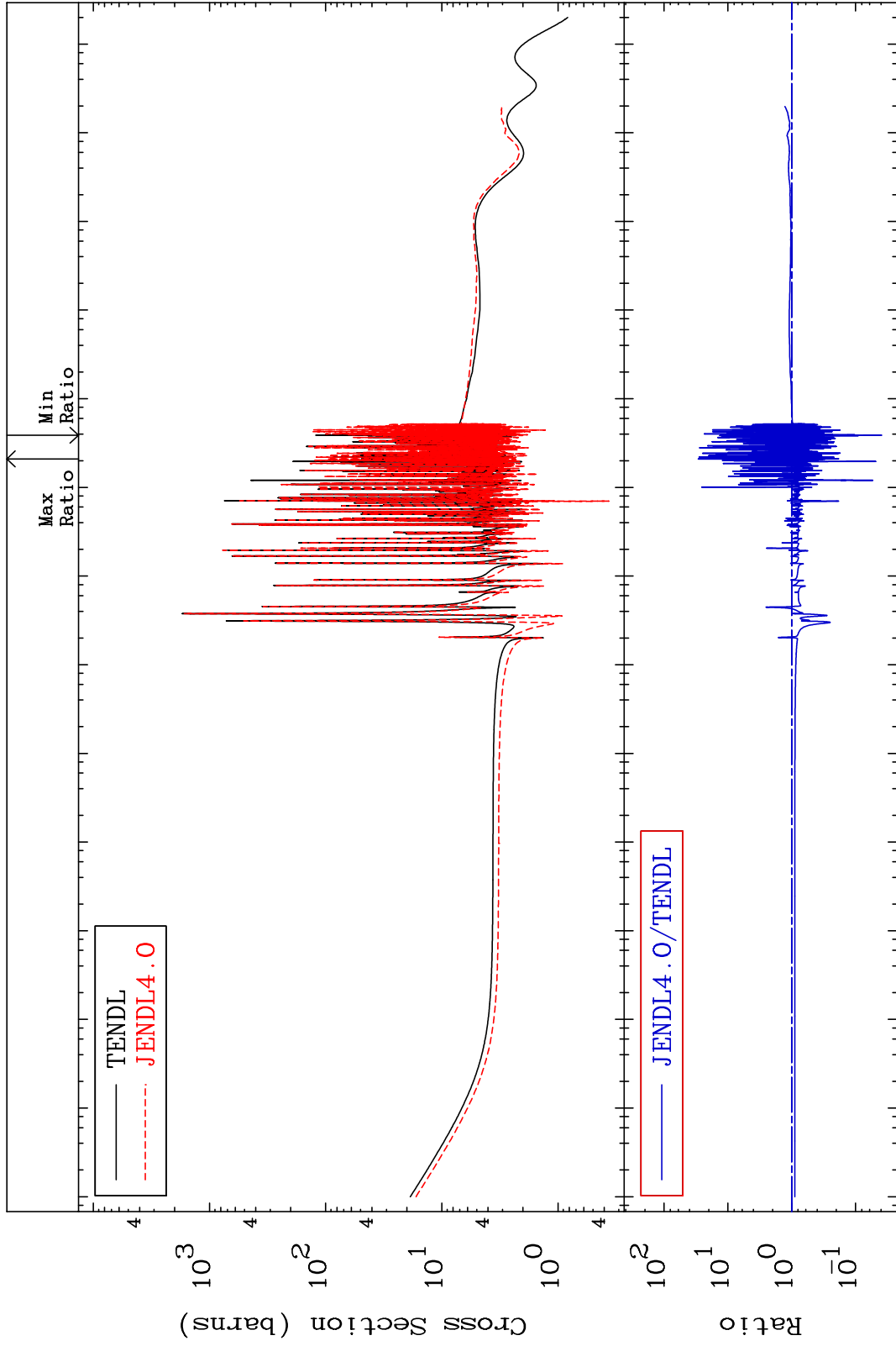
MAT 5325

Elastic

53-I -127

Cross Section

-96.08 To 2806. %



Incident Energy (eV)

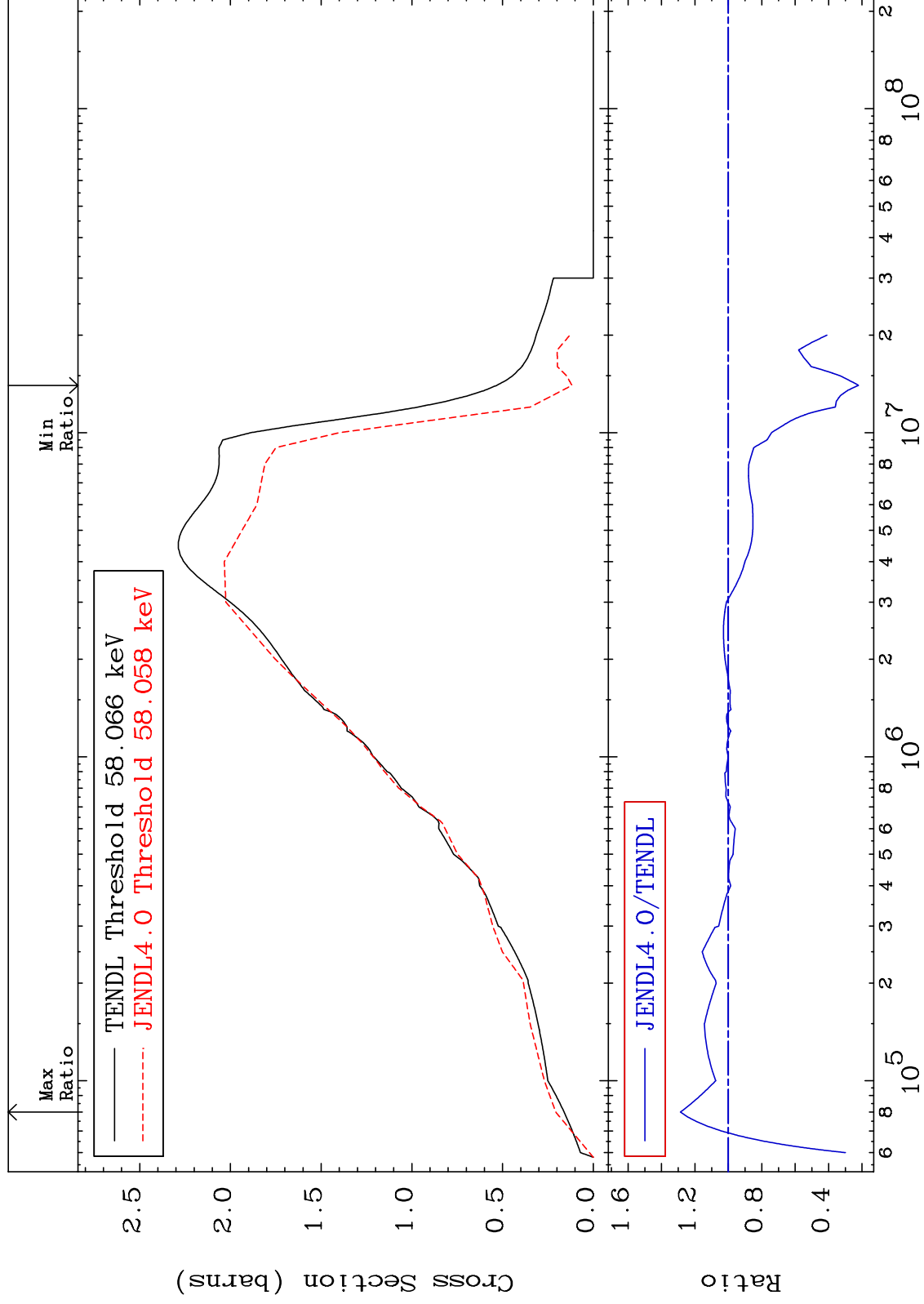
53-I -127

2

MAT 5325

Inelastic  
Cross Section

53-I -127  
-77.91 To 28.67 %



3

Incident Energy (eV)

53-I -127

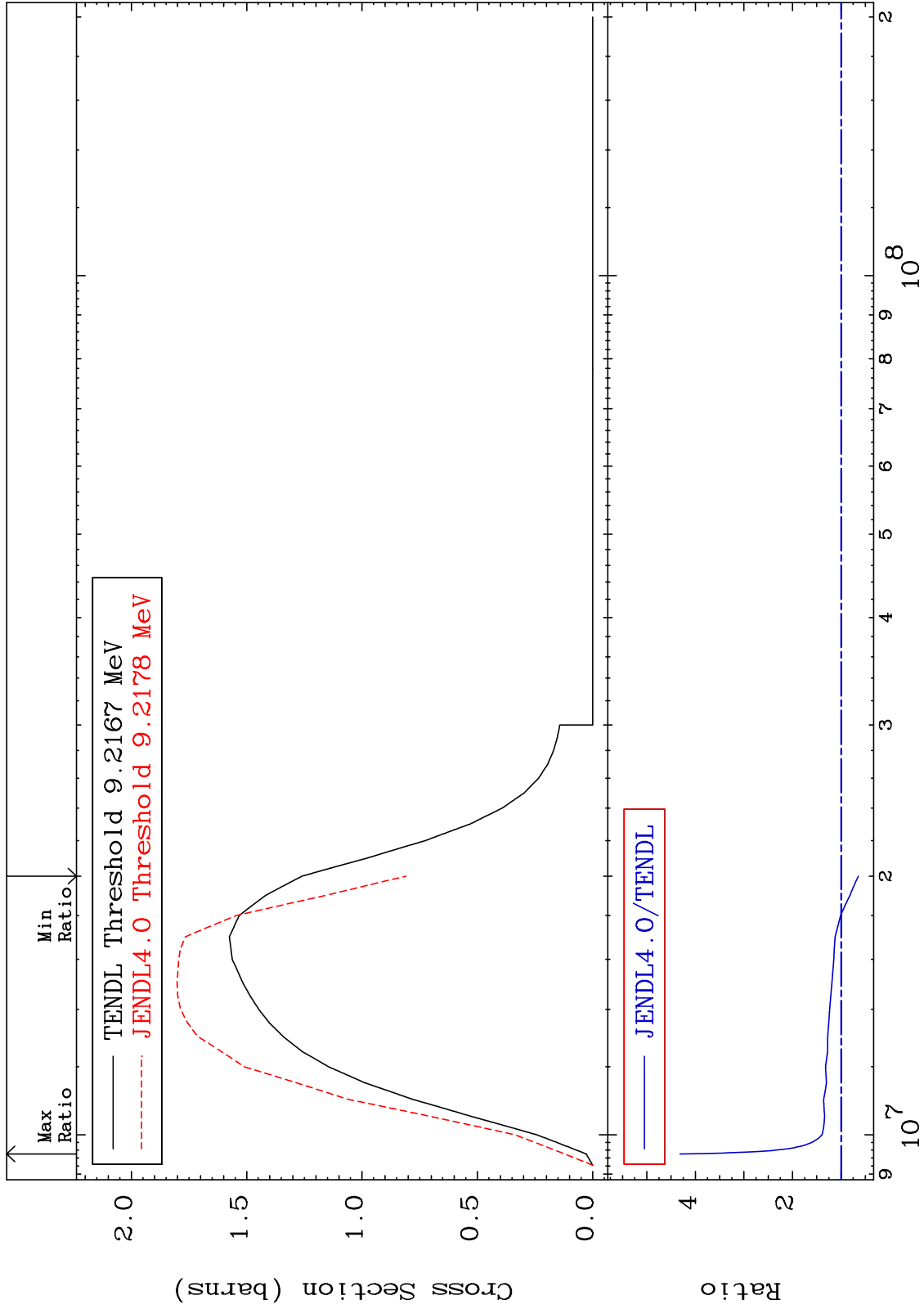
MAT 5325

(n,2n)

53-I -127

Cross Section

-35.78 To 331.5 %



53-I -127

Incident Energy (eV)

4

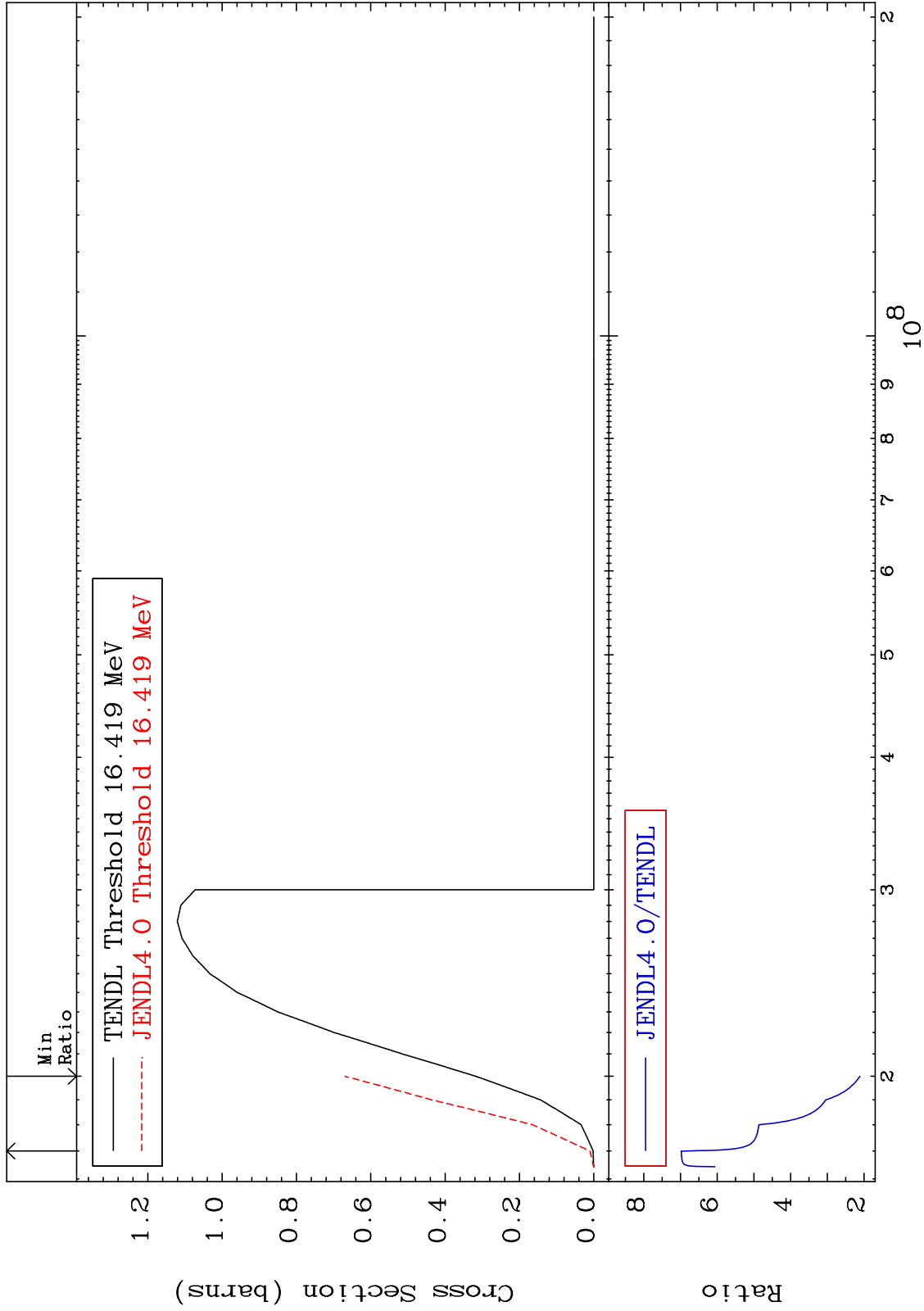
MAT 5325

(n, 3n)

53-I -127

Cross Section

111.0 To 598.1 %



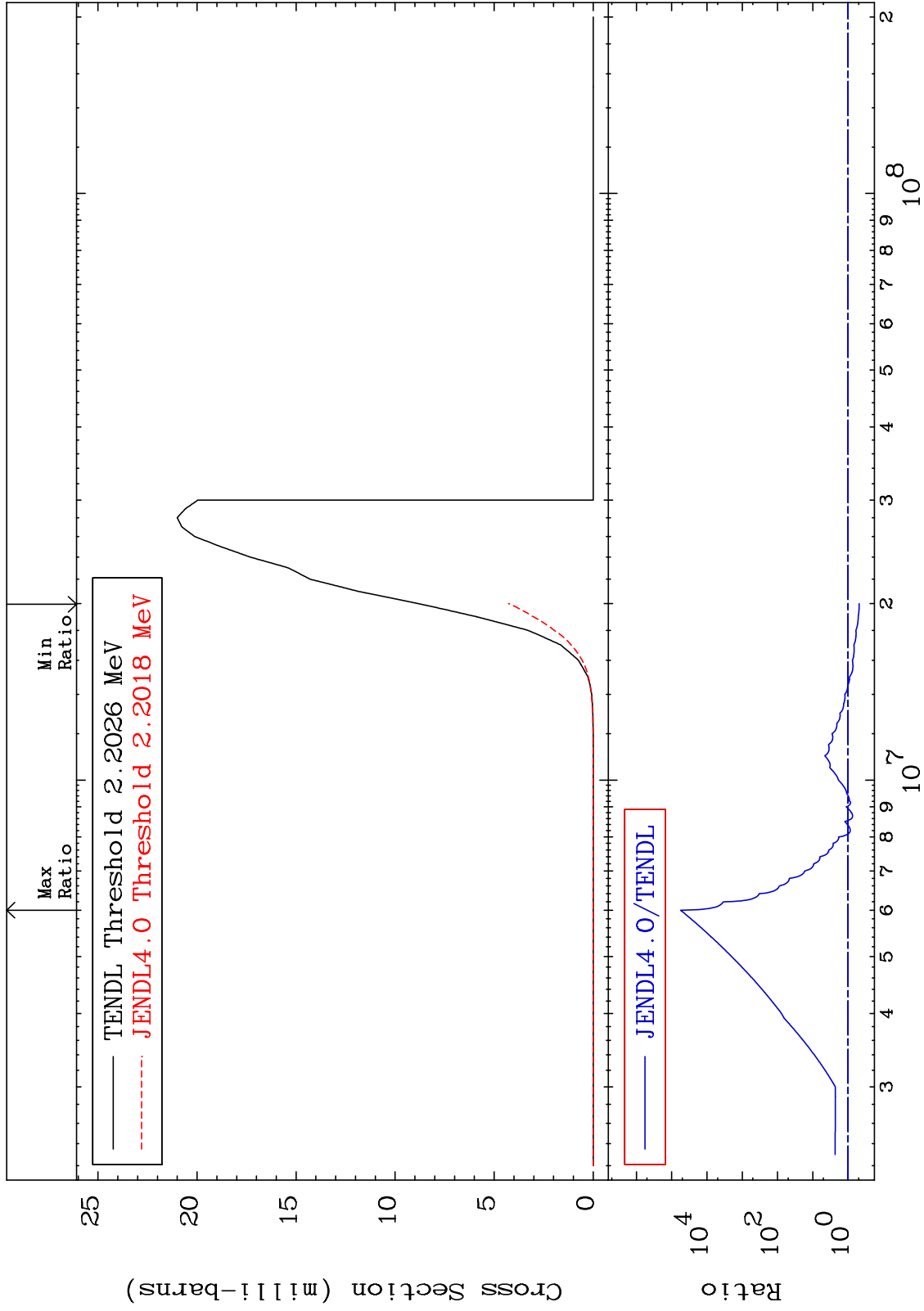
MAT 5325

(n,n')  $\alpha$

53-I -127

-51.67 To 9999. %

Cross Section



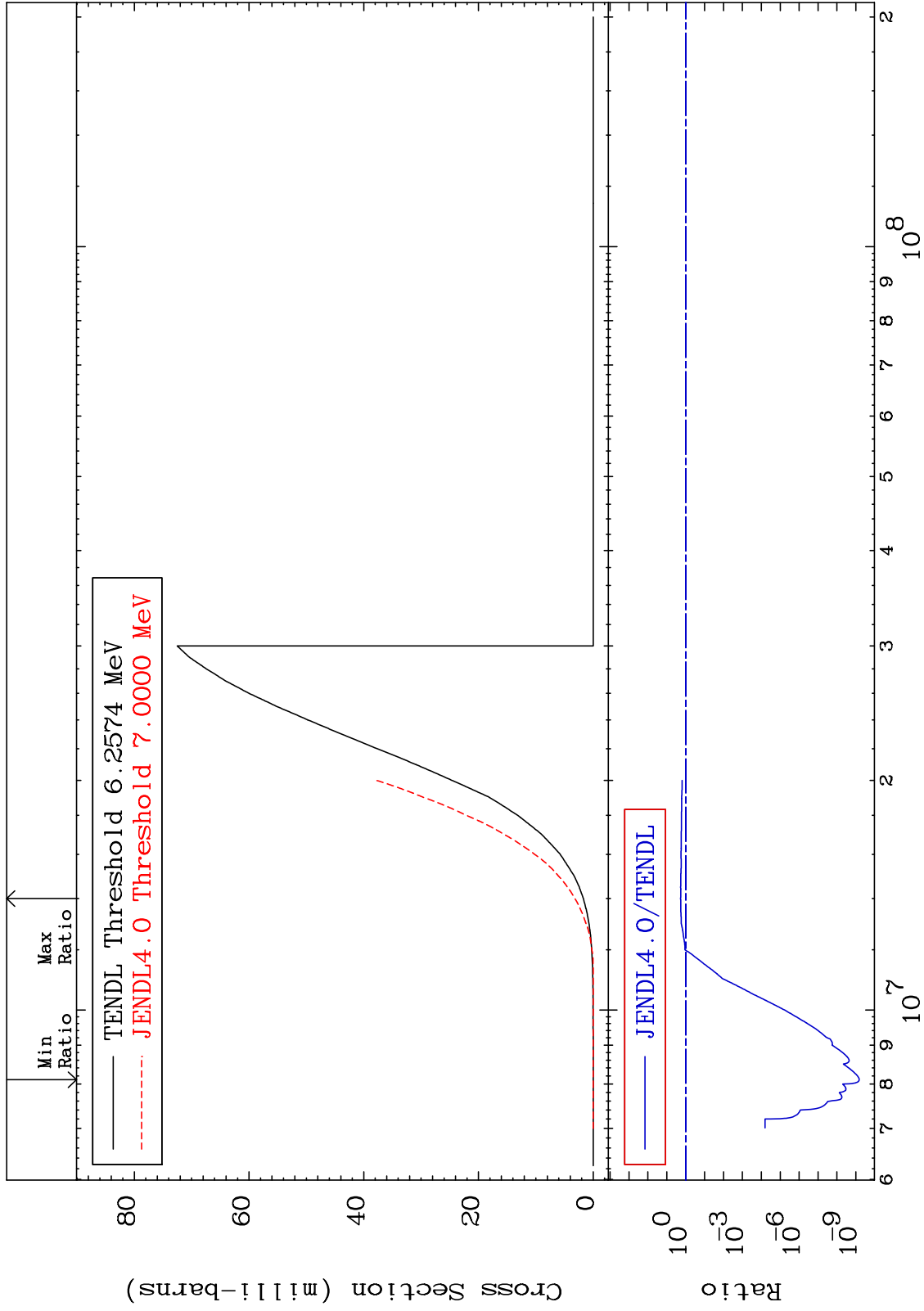
MAT 5325

(n,n') p

53-I -127

Cross Section

-100.0 To 85.35 %



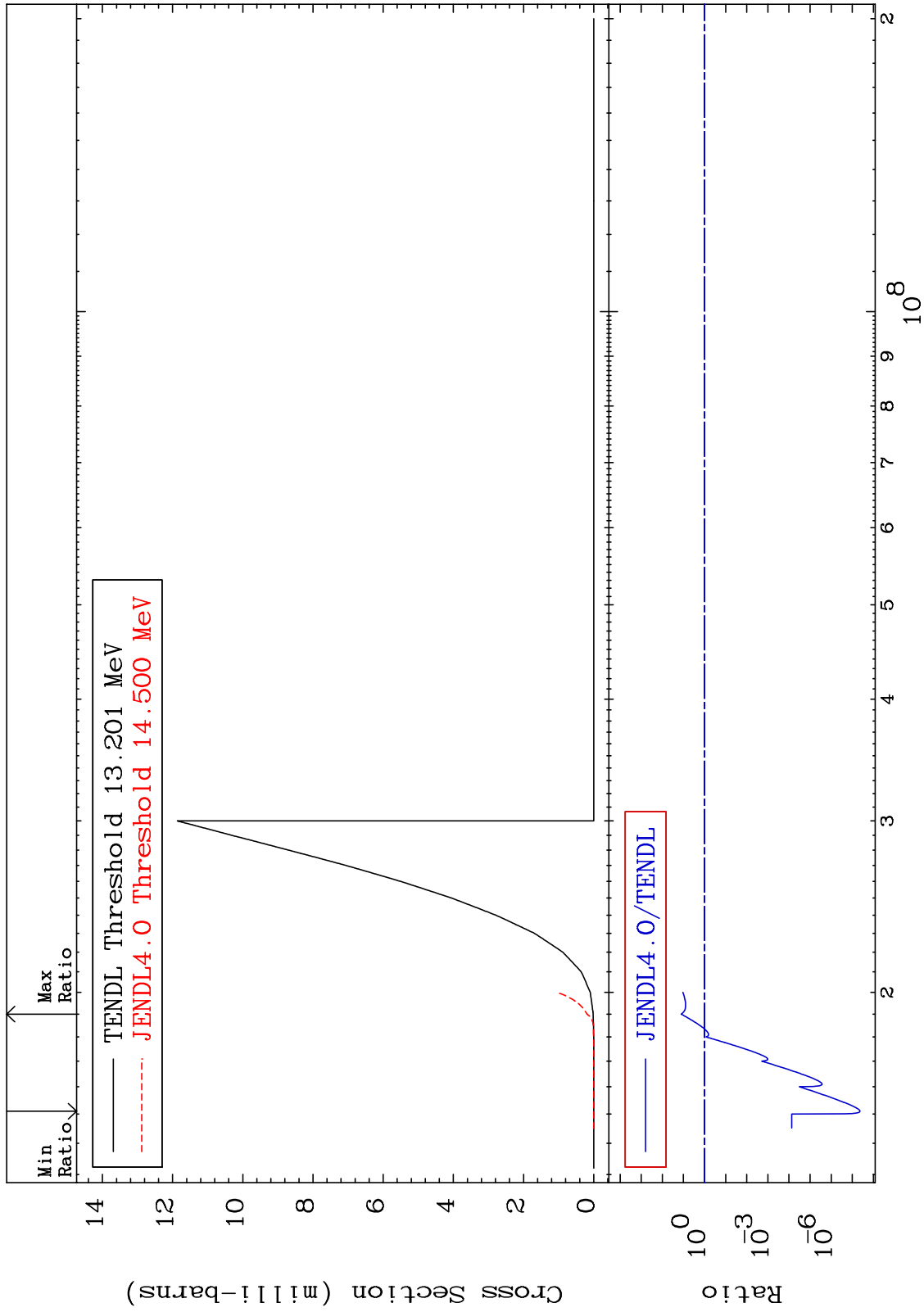
Incident Energy (eV)

53-I -127

7

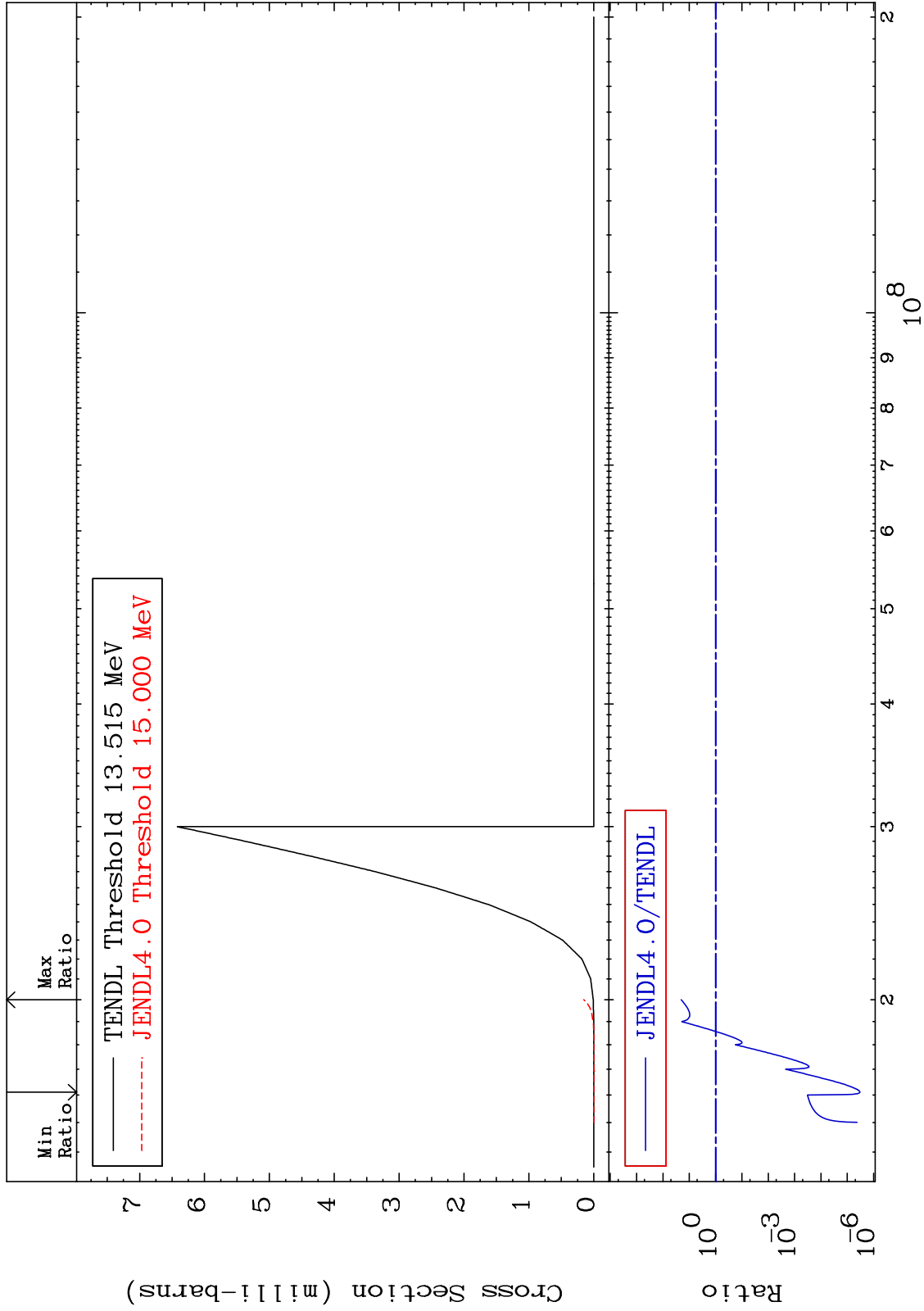
Cross Section

-100.0 To 1171. %



Cross Section

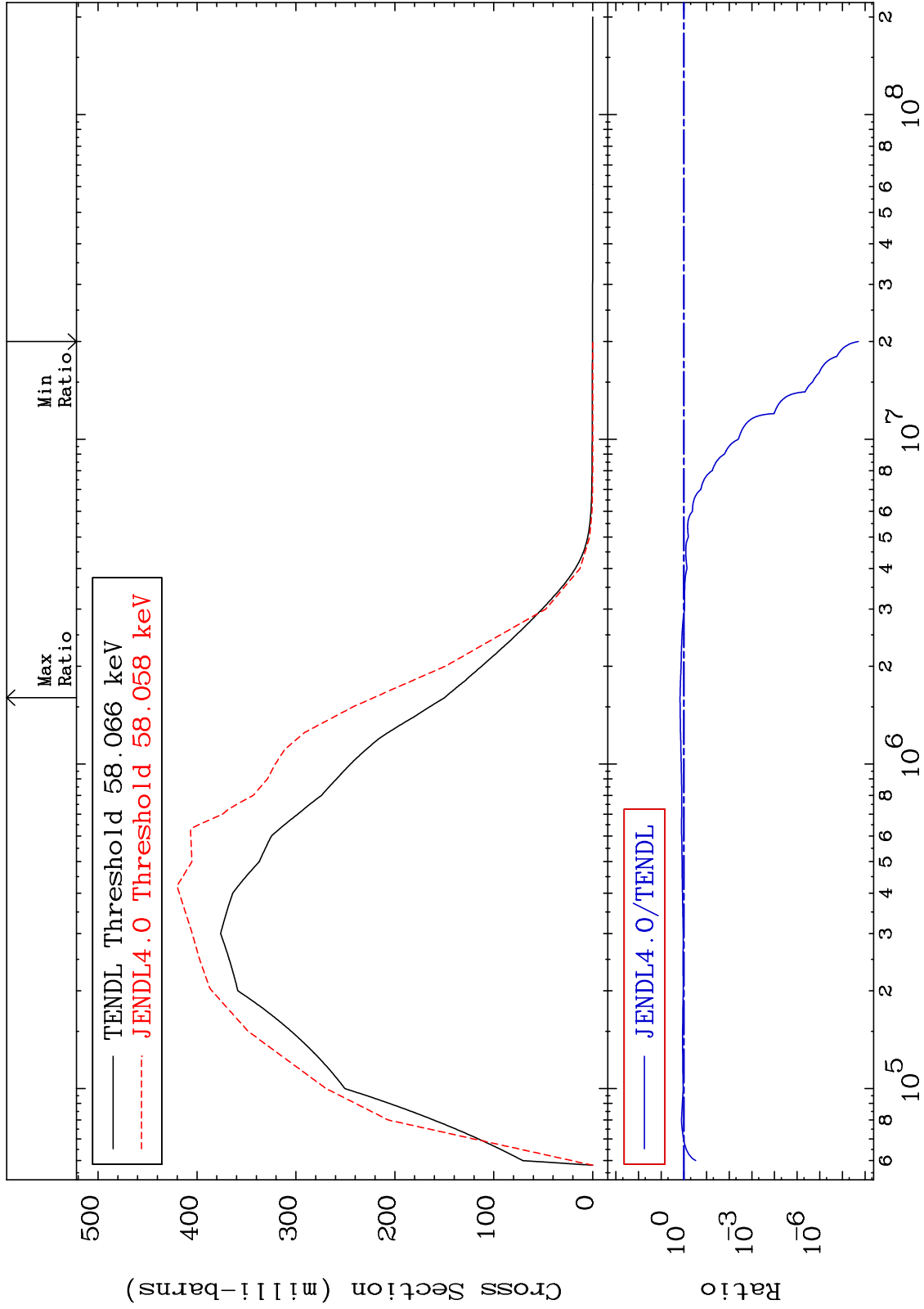
-100.0 To 1920. %



MAT 5325

MT= 51 (n,n') Level  
Cross Section

53-I -127  
-100.0 To 47.88 %



10

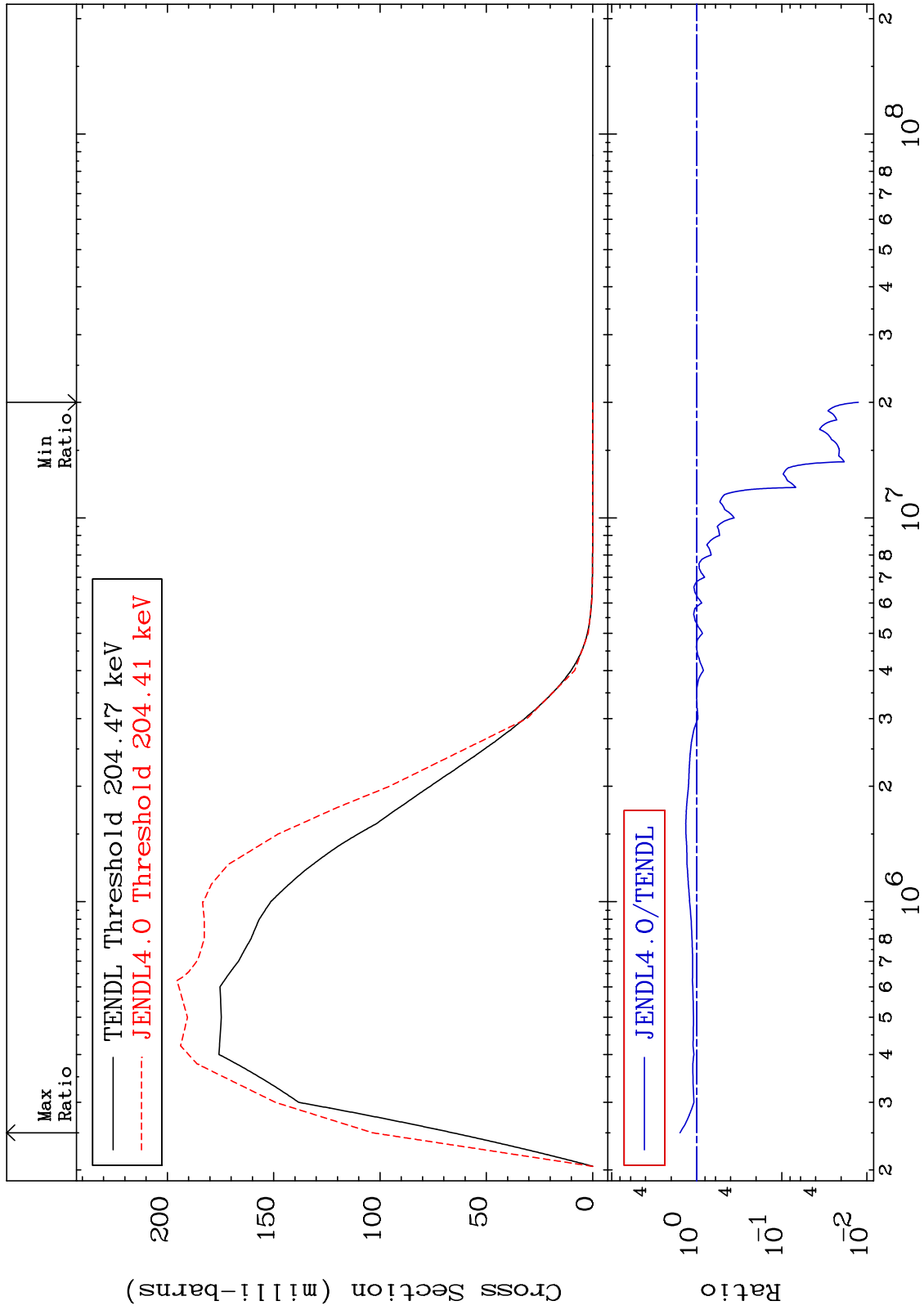
Incident Energy (eV)

53-I -127

MAT 5325

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

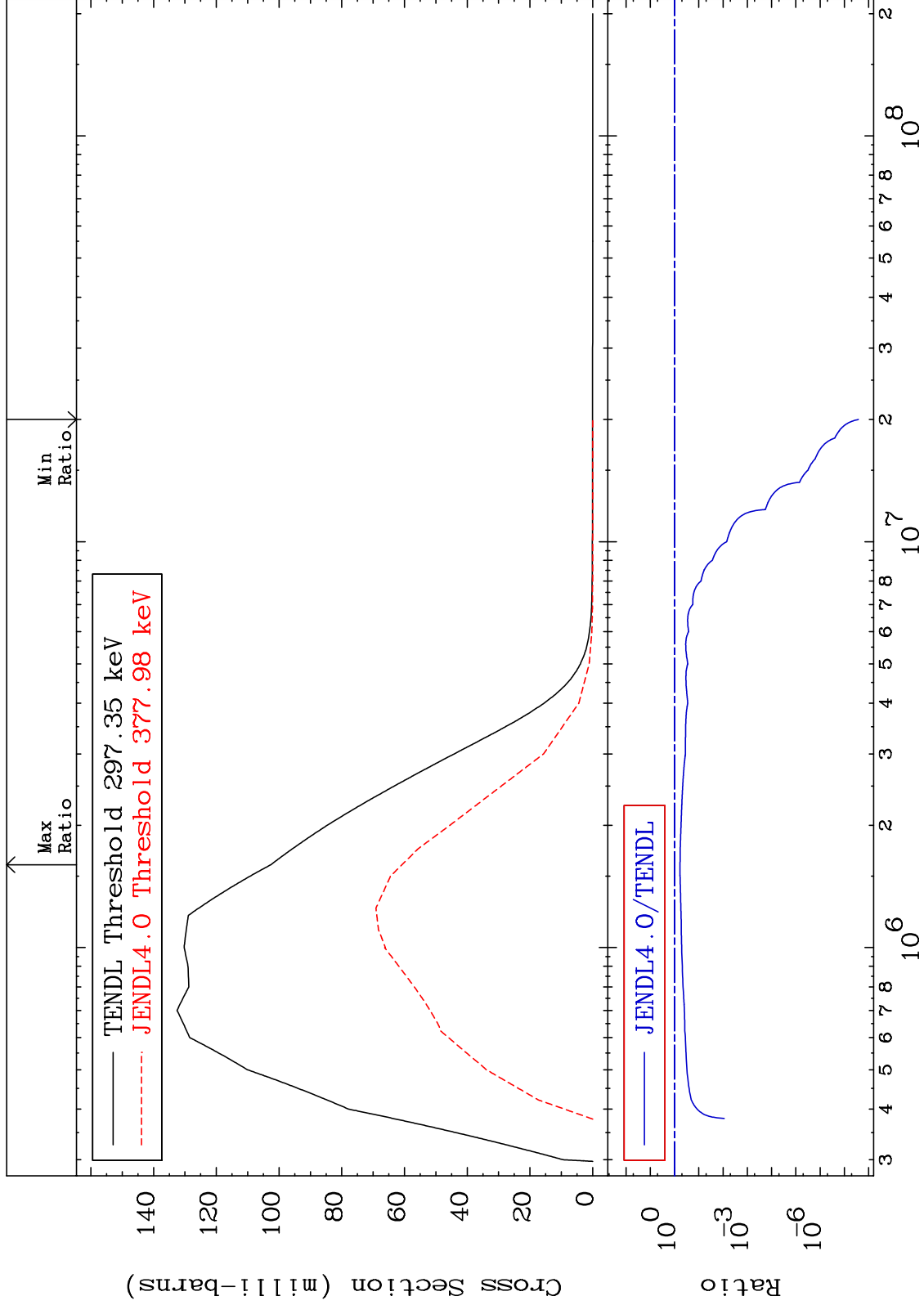
53-I -127  
-98.75 To 57.27 %



MAT 5325

MT= 53 (n,n') Level  
Cross Section

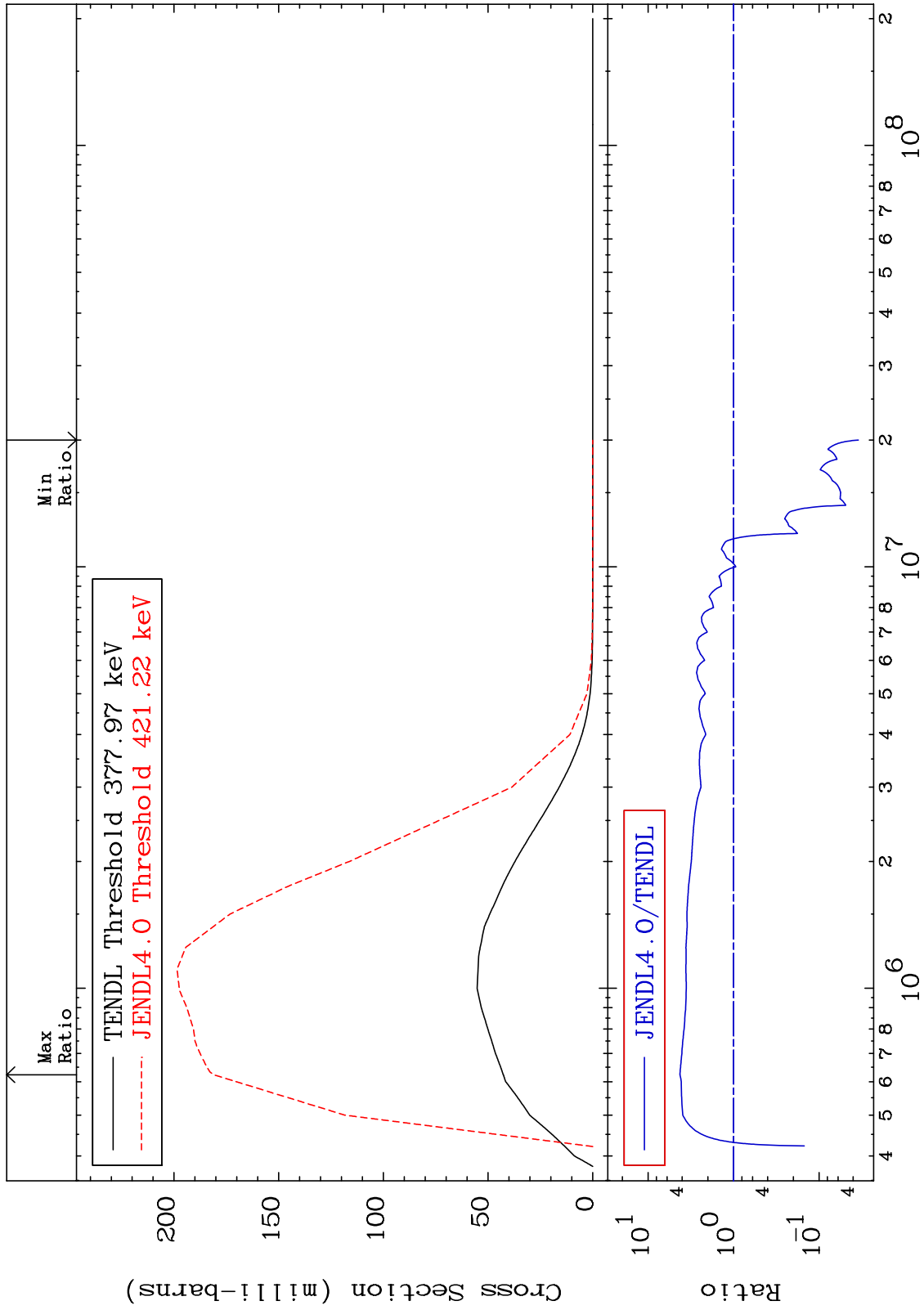
53-I -127  
-100.0 To -40.75%



MAT 5325

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

53-I -127  
-96.53 To 324.2 %



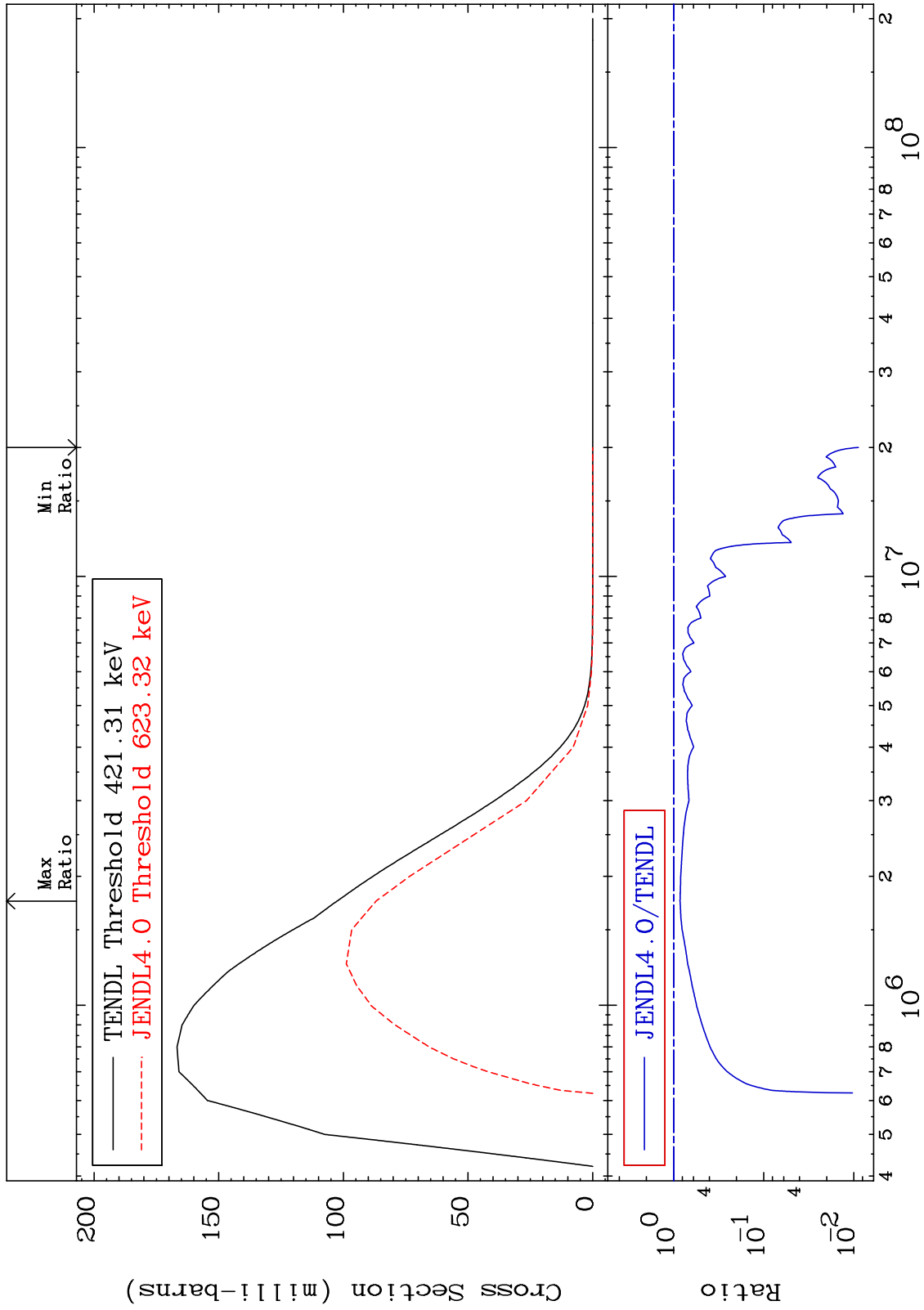
13

53-I -127

MAT 5325

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

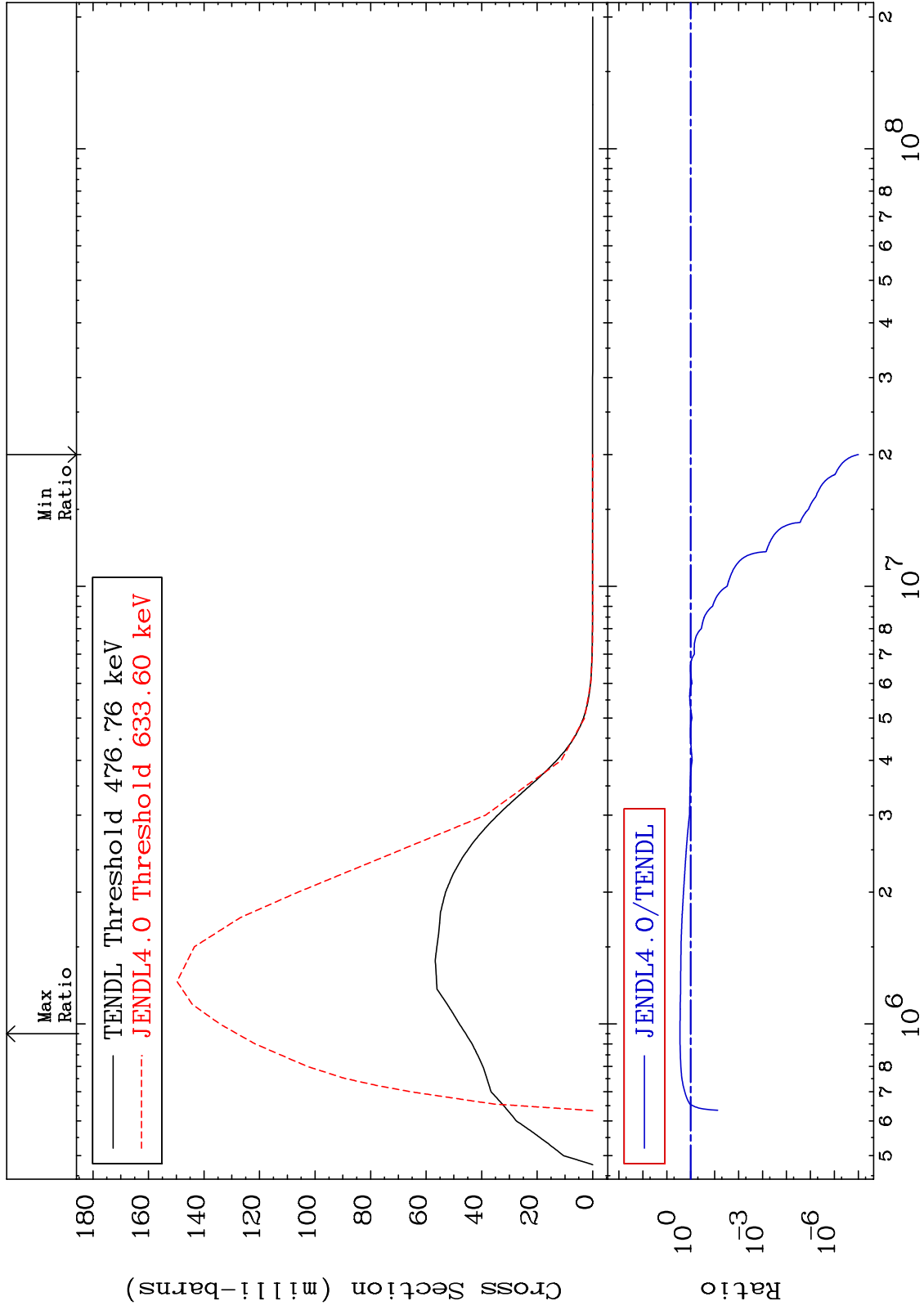
53-I -127  
-99.11 To -15.26%



MAT 5325

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

53-I -127  
-100.0 To 180.1 %



15

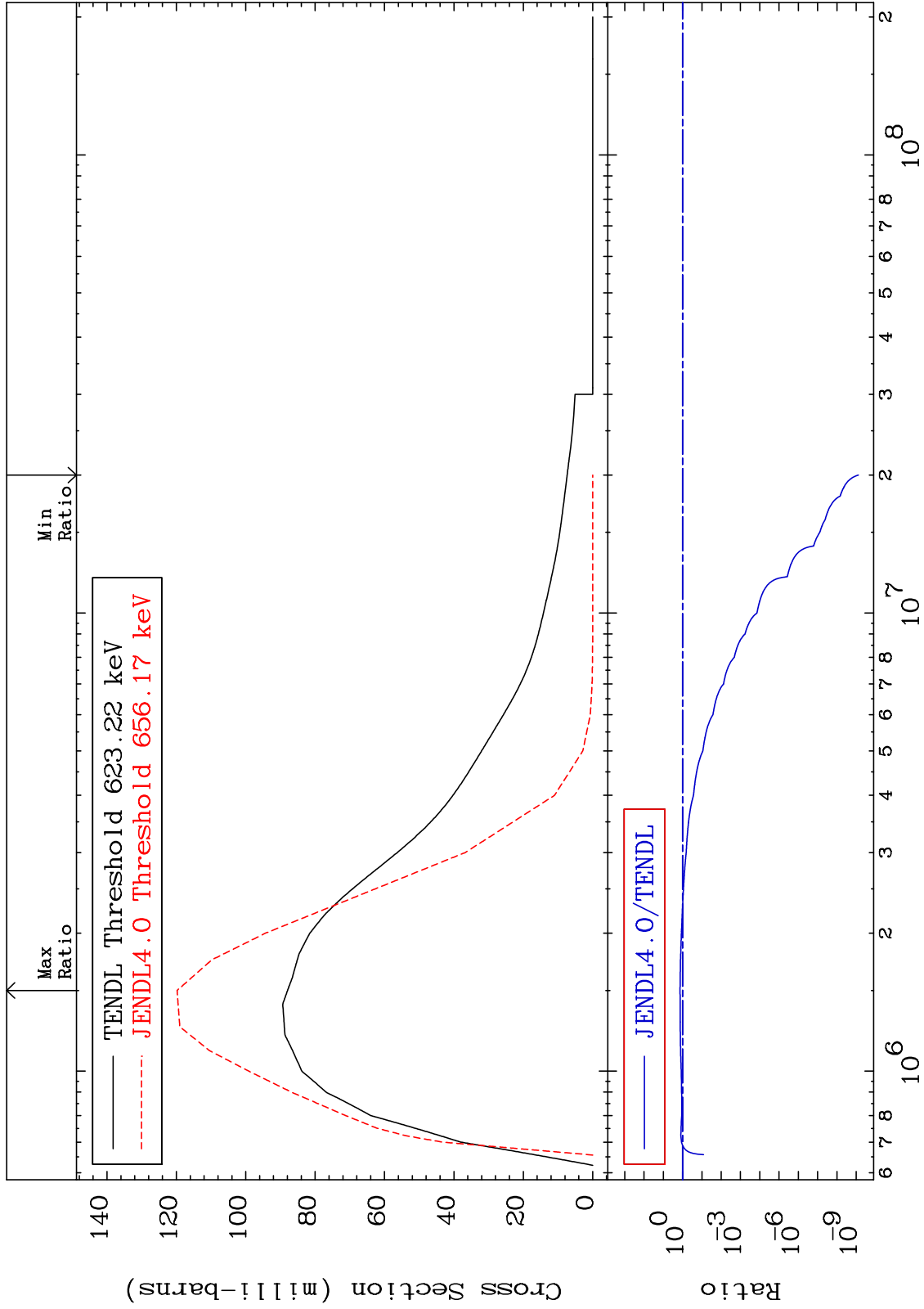
Incident Energy (eV)

53-I -127

MAT 5325

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

53-I -127  
-100.0 To 36.20 %



16

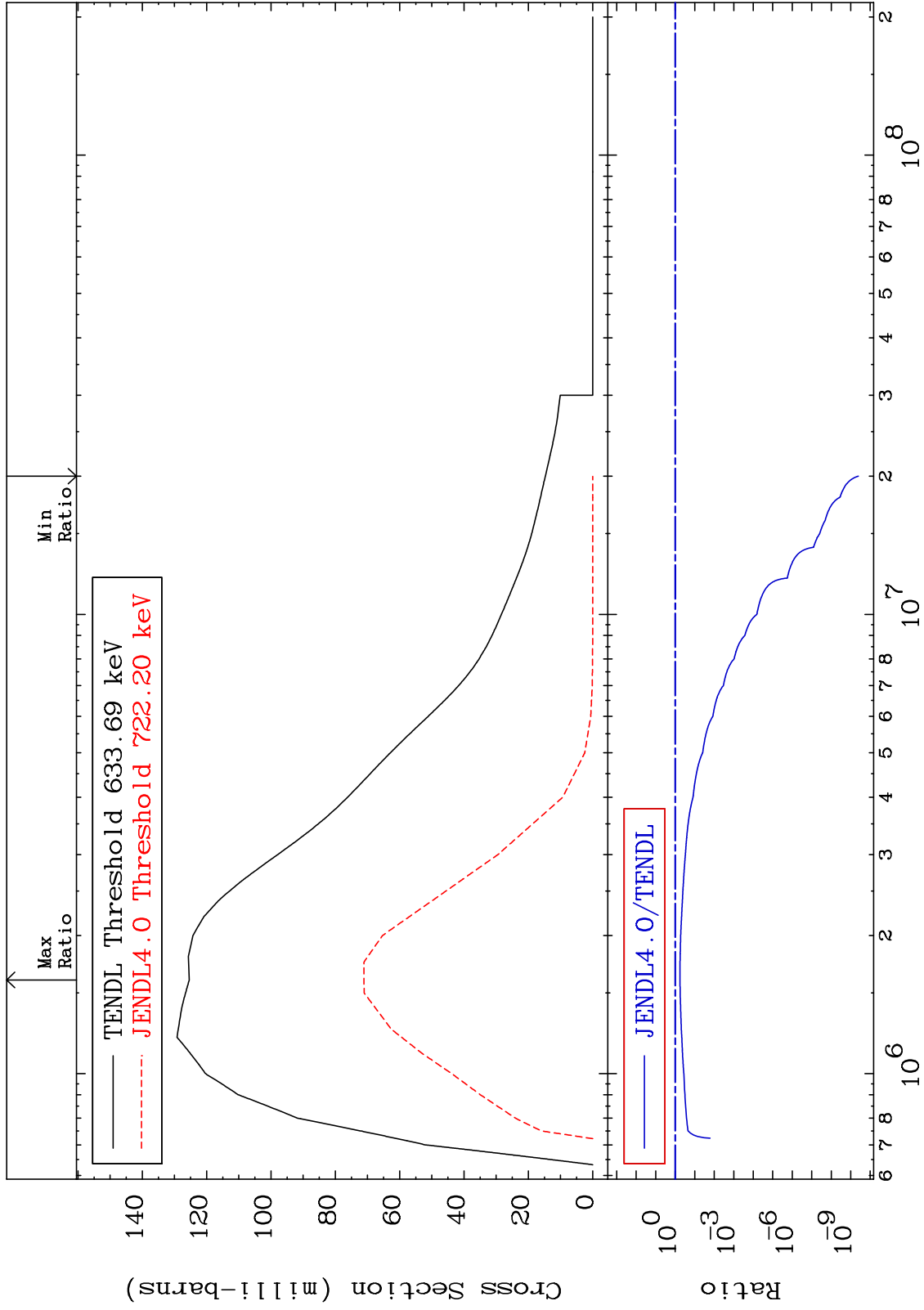
Incident Energy (eV)

53-I -127

MAT 5325

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

53-I -127  
-100.0 To -43.32%



17

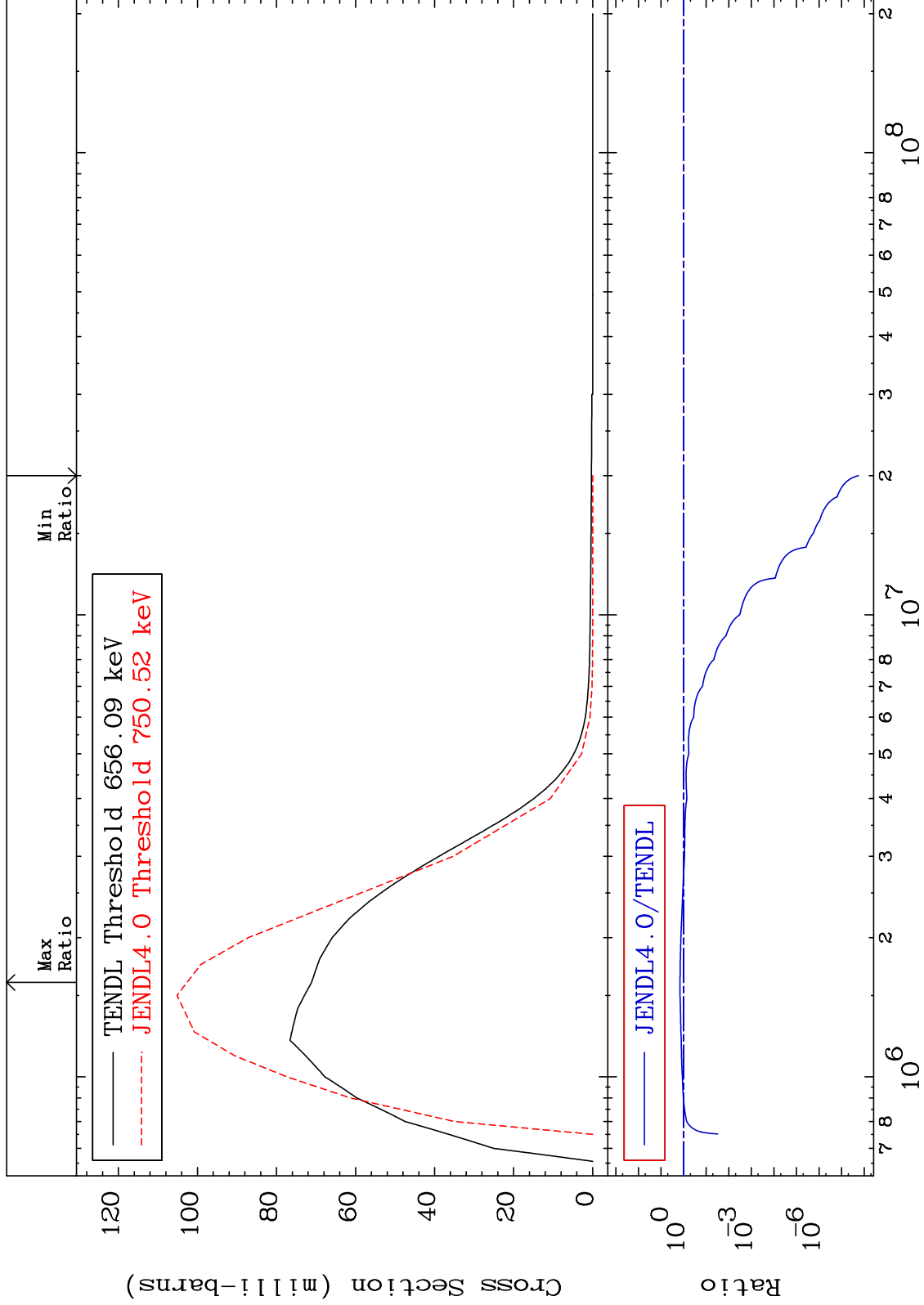
Incident Energy (eV)

53-I -127

MAT 5325

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

53-I -127  
-100.0 To 44.30 %

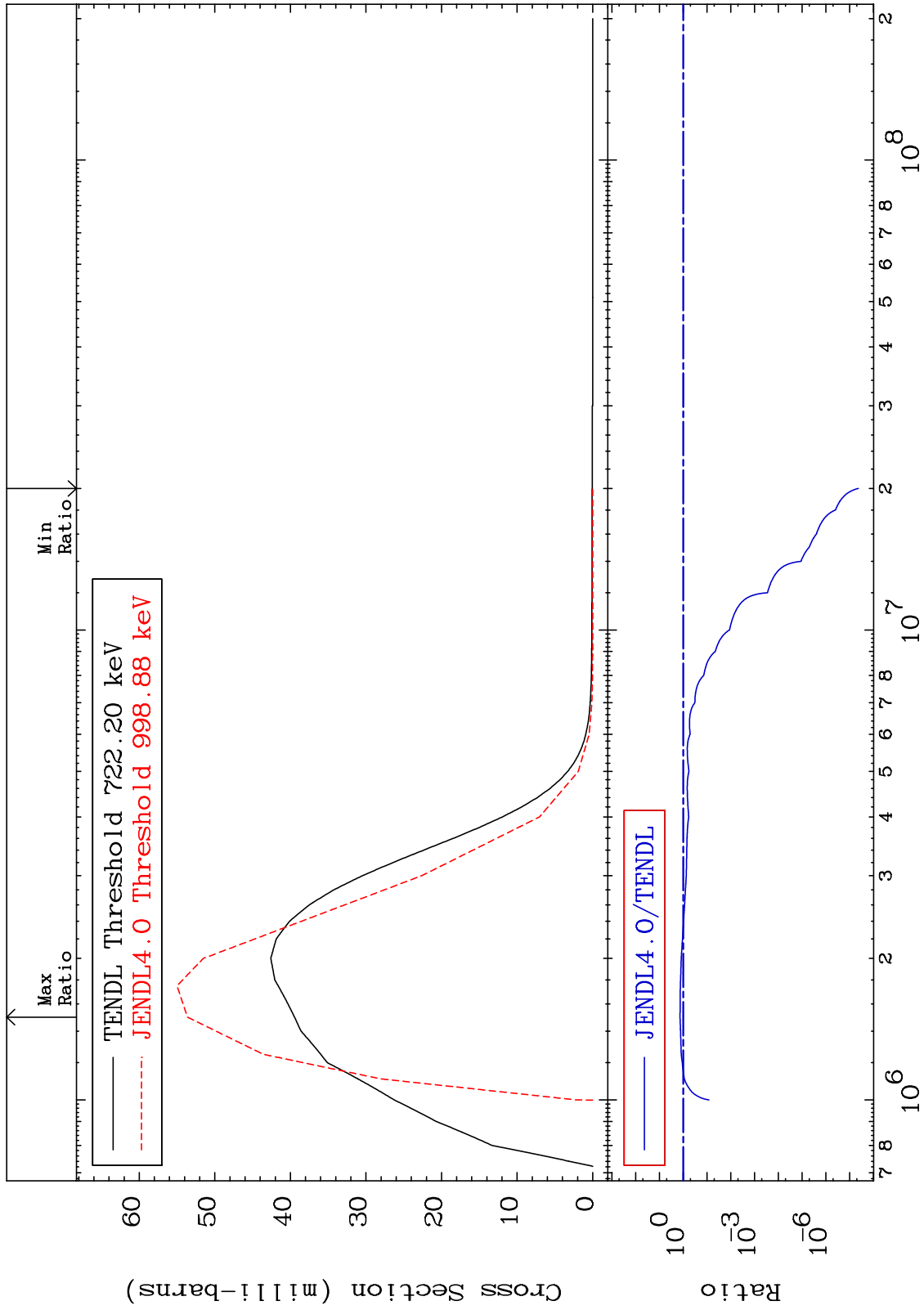


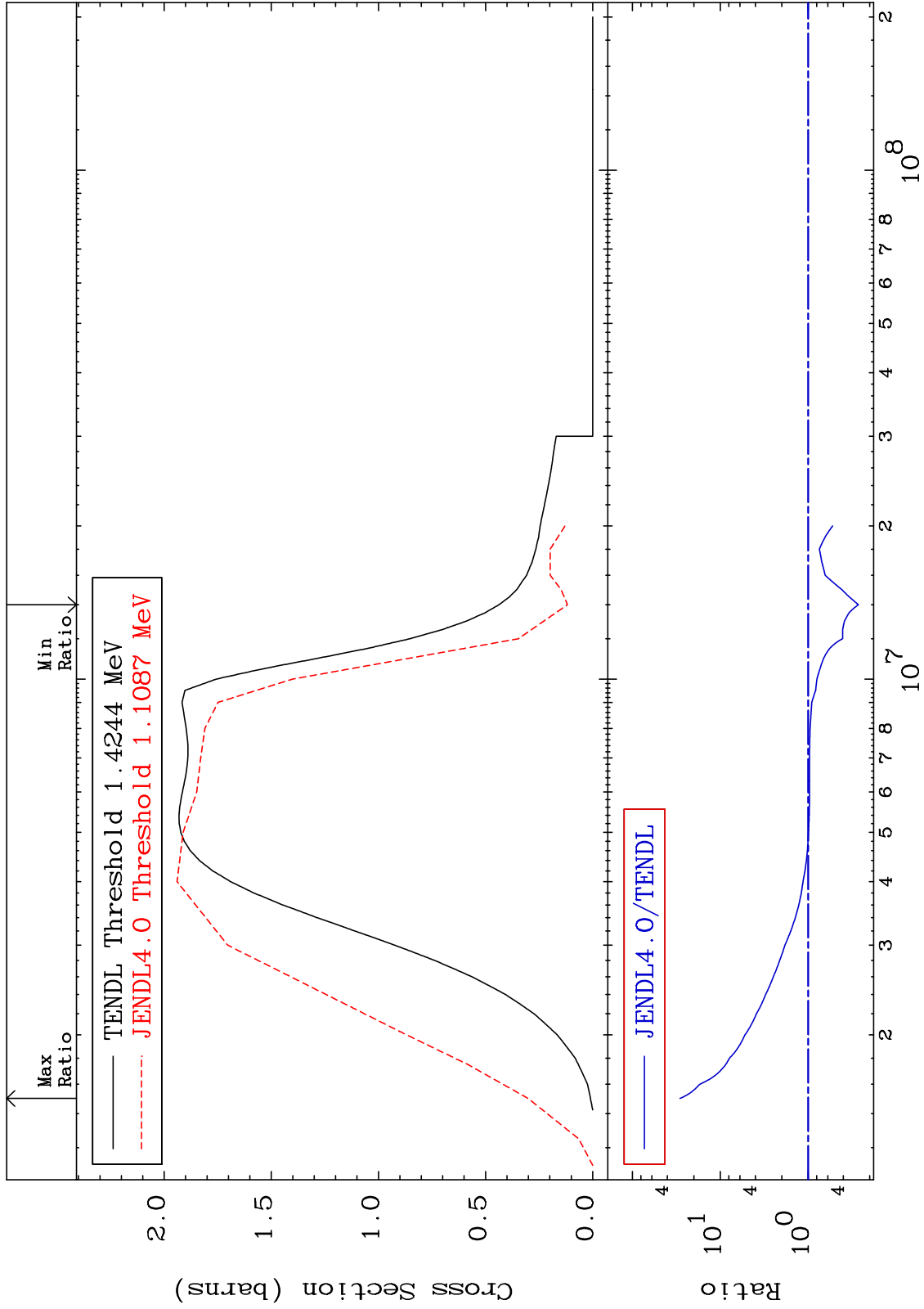
18

Incident Energy (eV)

53-I -127

MAT 5325 MT= 60 (n,n') Level 53-I -127  
 Cross Section -100.0 To 35.90 %

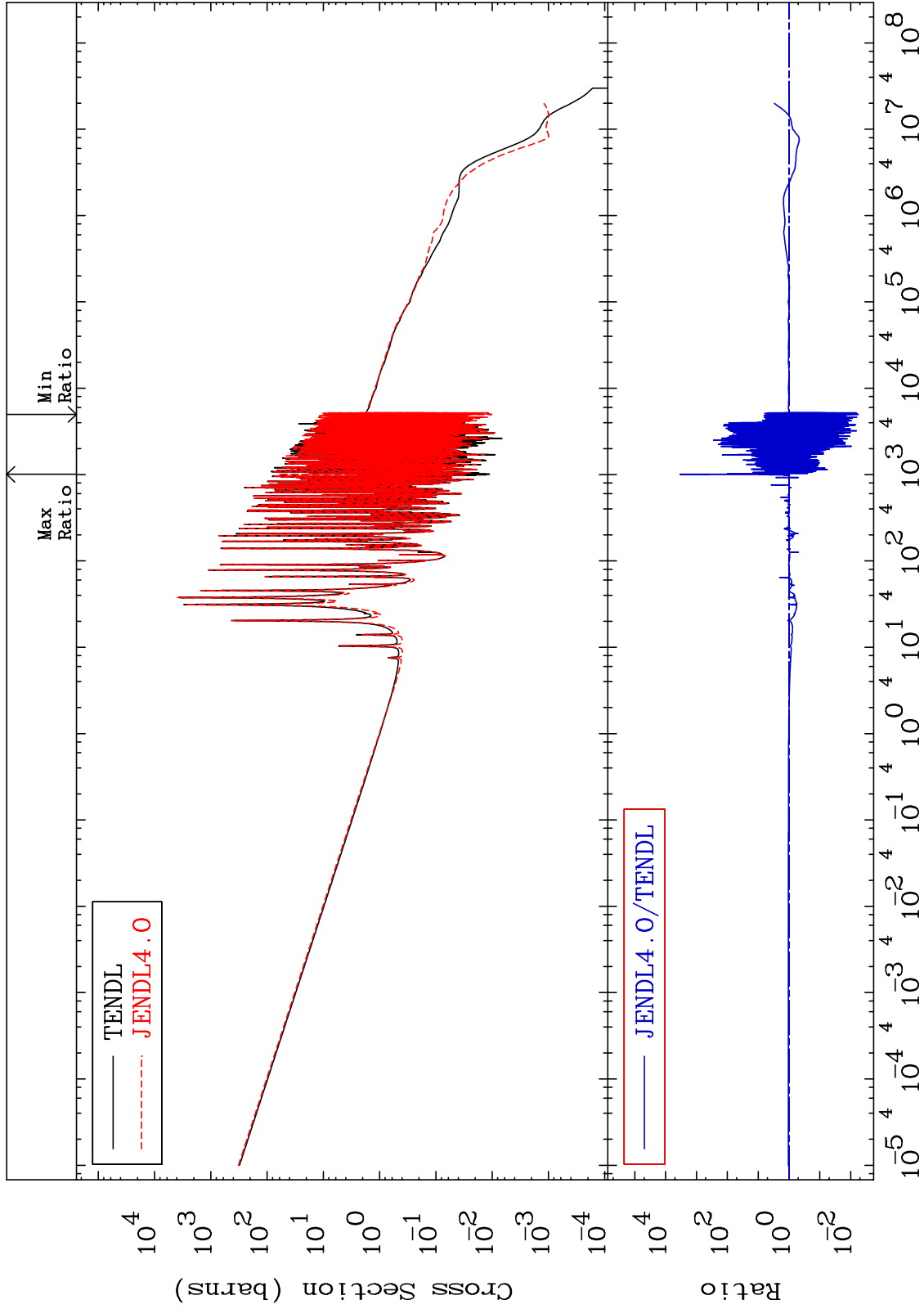




MAT 5325

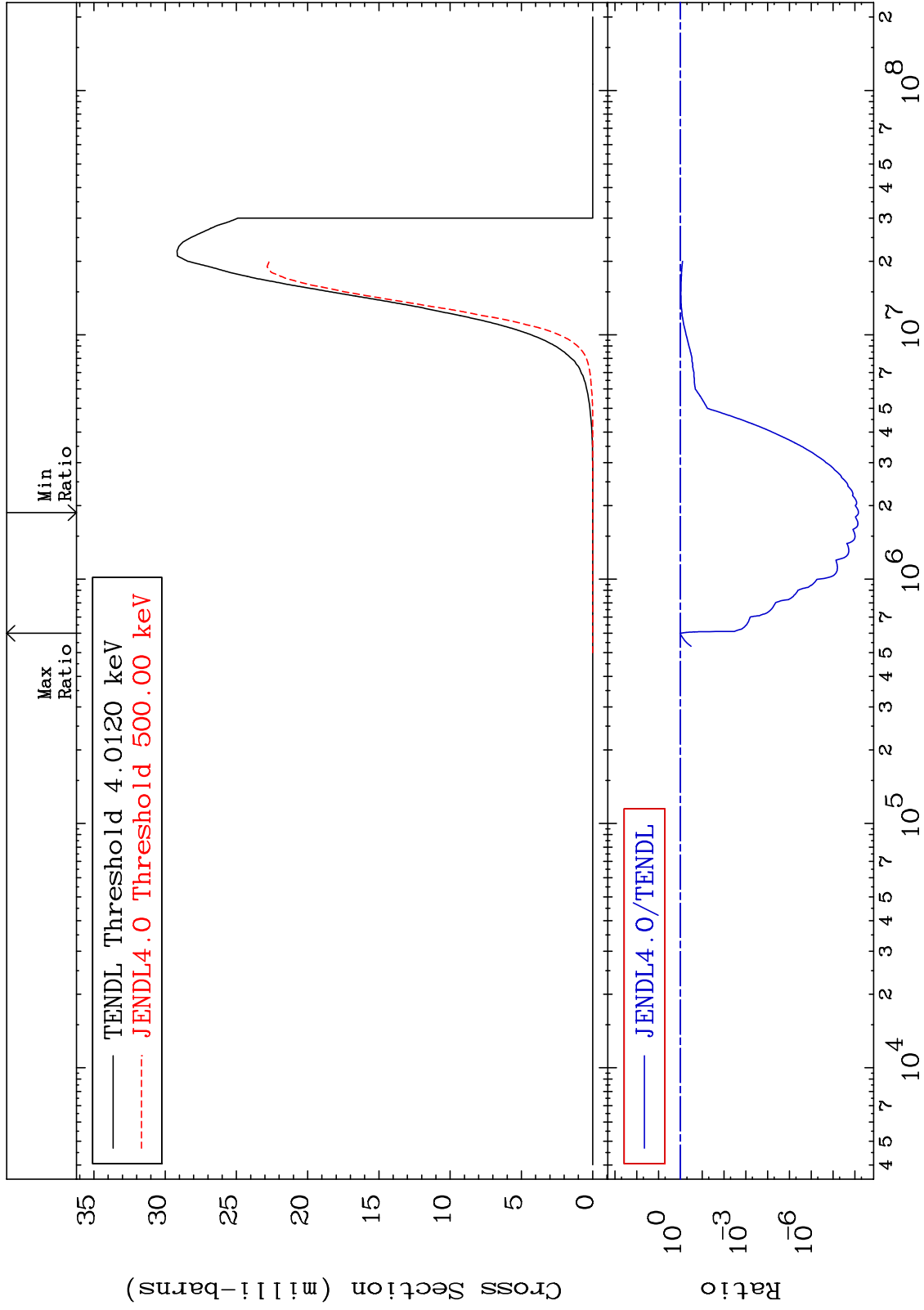
(n,  $\gamma$ )  
Cross Section

53-I -127  
-99.44 To 9999. %



MAT 5325

(n,p) Cross Section  
53-I -127  
-100.0 To 3.947 %



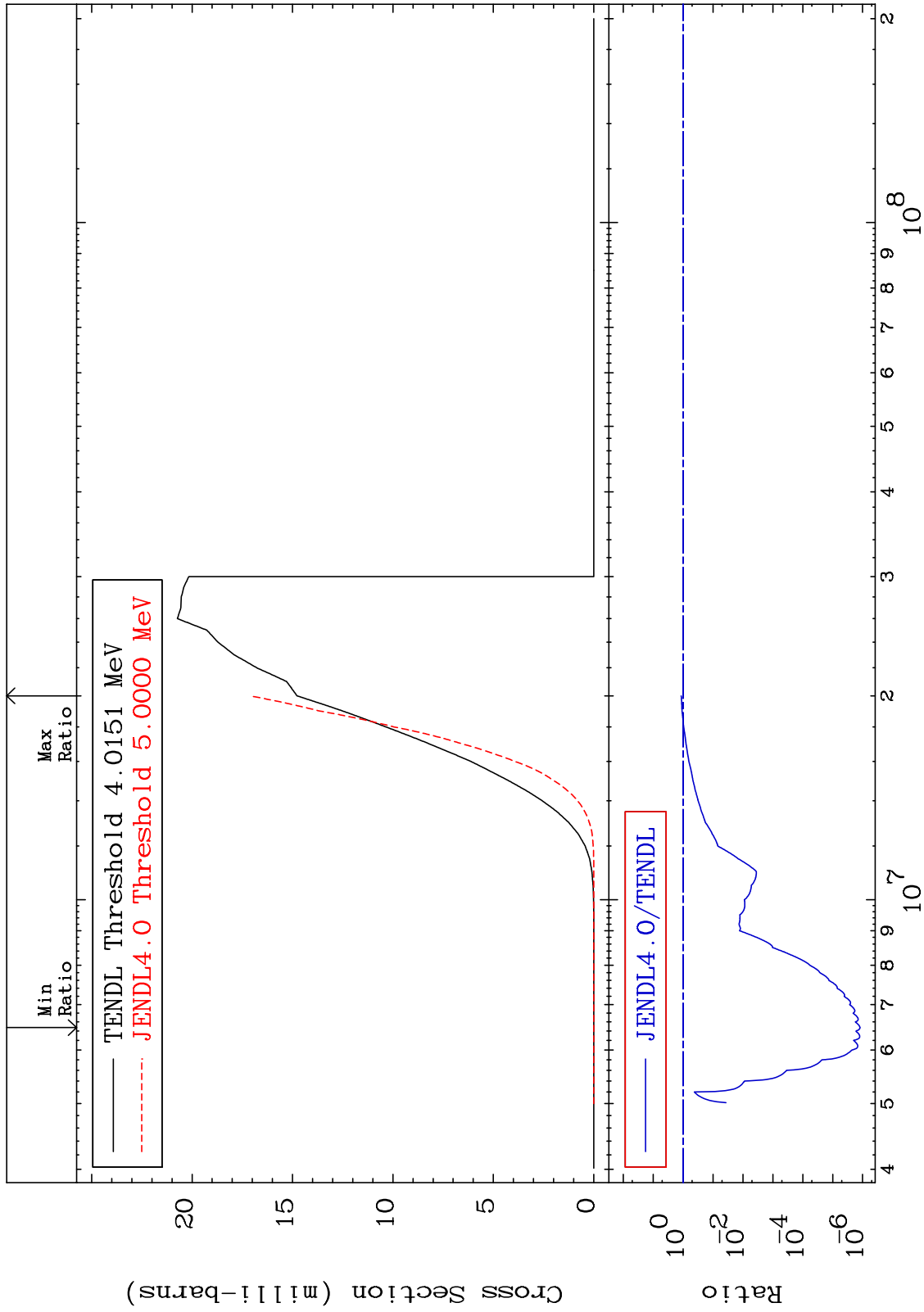
MAT 5325

(n, d)

53-I -127

Cross Section

-100.0 To 15.78 %



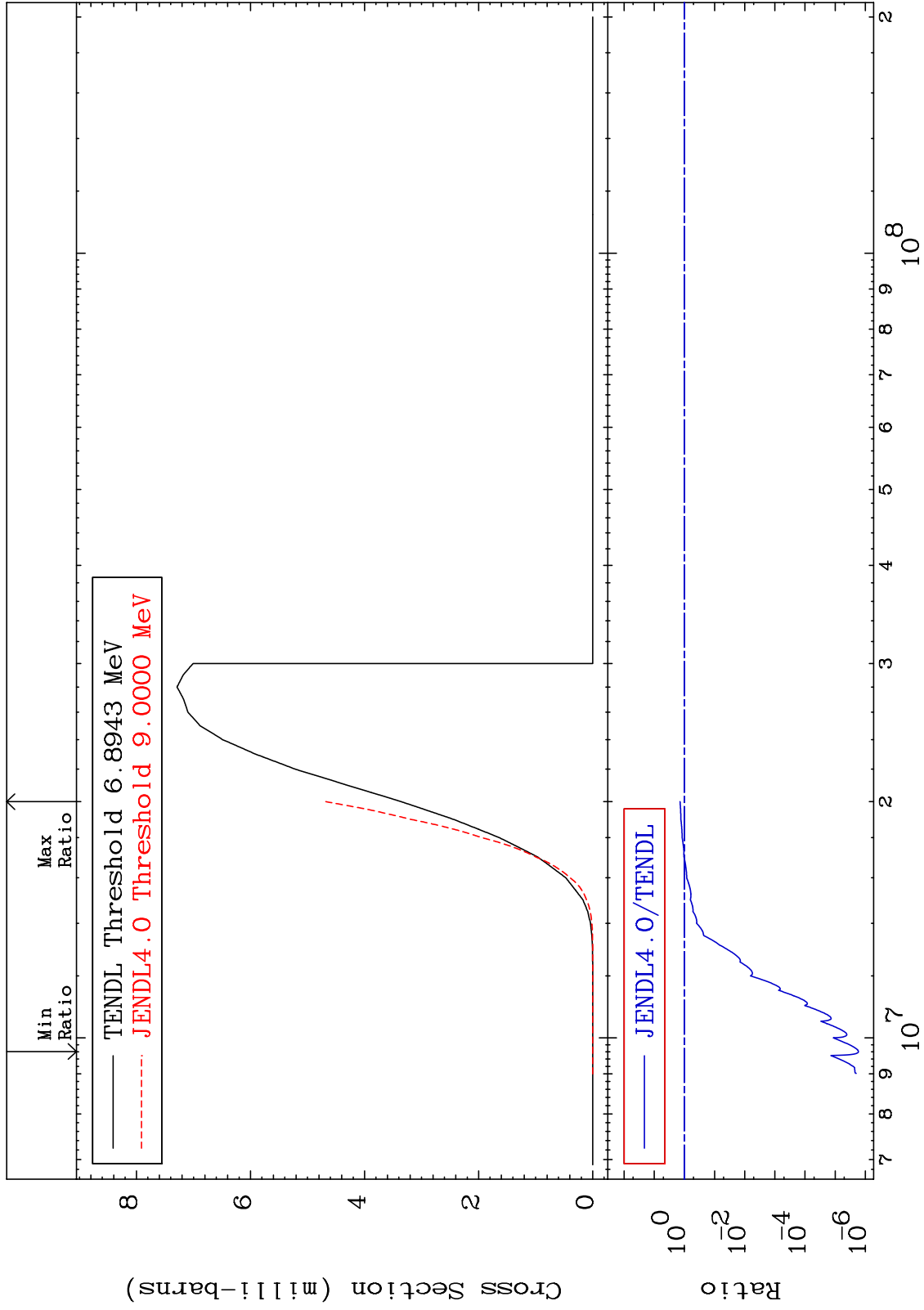
MAT 5325

(n, t)

53-I -127

Cross Section

-100.0 To 39.38 %



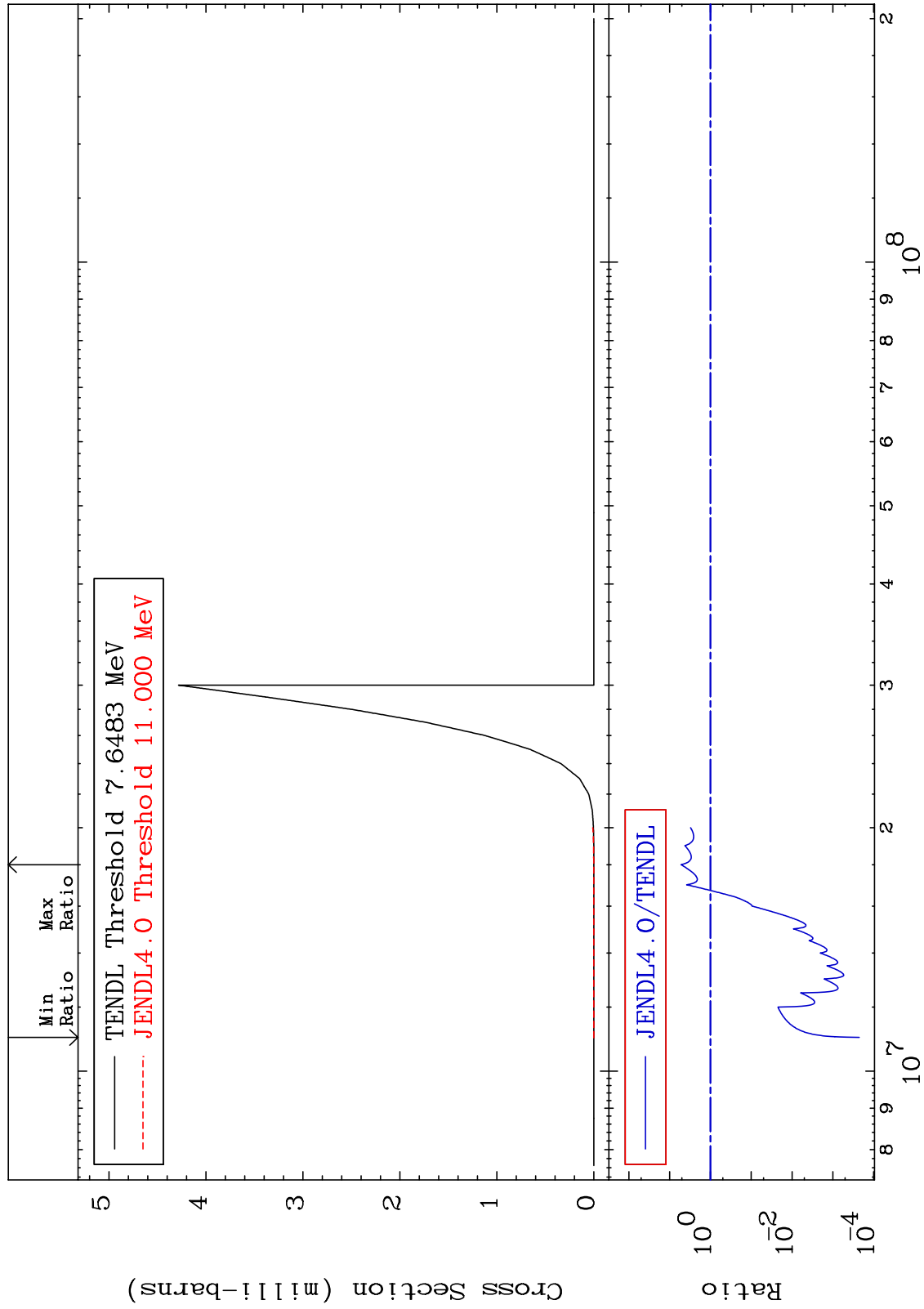
MAT 5325

(n, He-3)

53-I -127

Cross Section

-99.98 To 425.5 %



25

Incident Energy (eV)

53-I -127

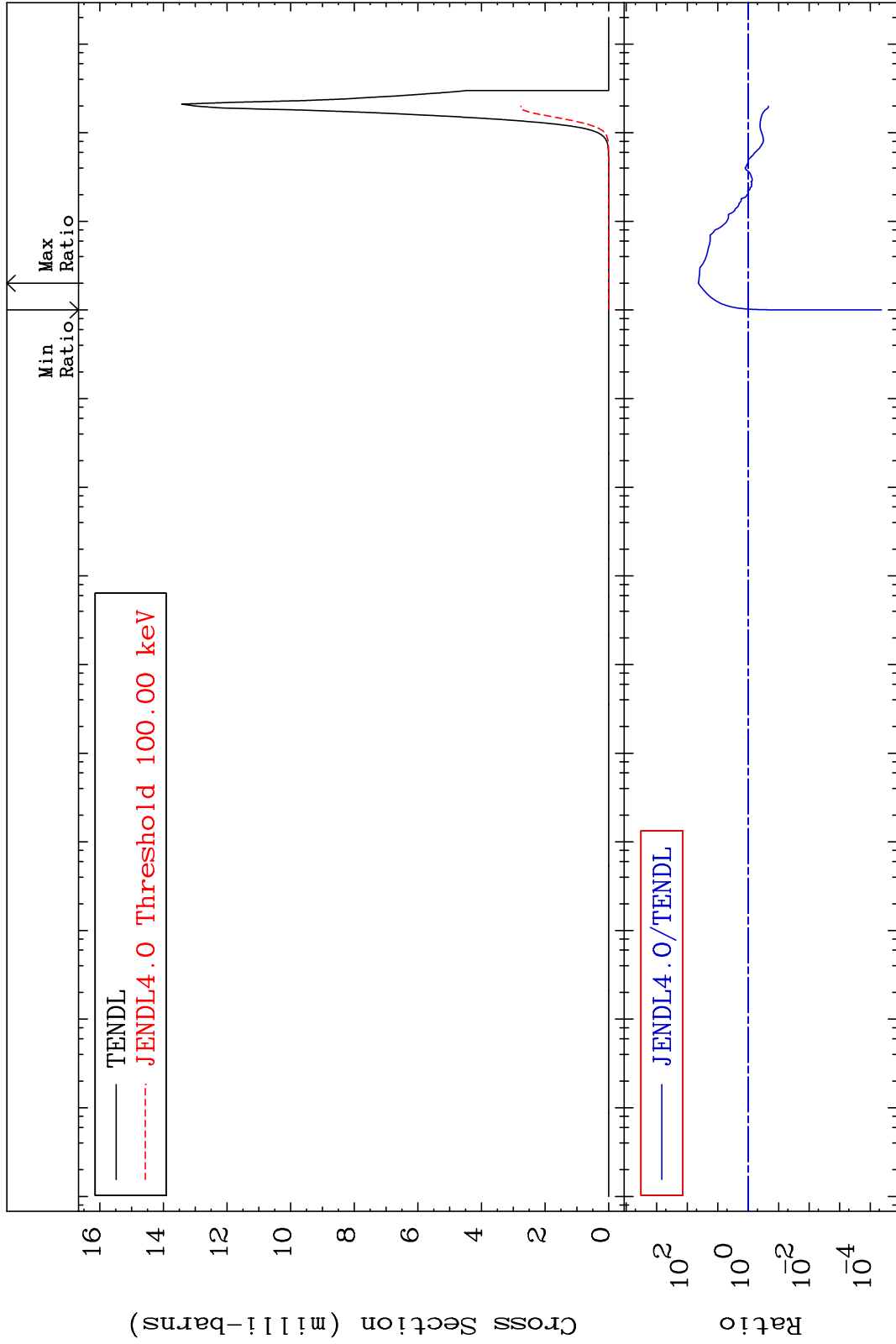
MAT 5325

(n,  $\alpha$ )

53-I -127

Cross Section

-100.0 To 4215. %



16  
14  
12  
10  
8  
6  
4  
2  
0

$10^2$   
 $10^0$   
 $10^{-2}$   
 $10^{-4}$

$10^{-5}$   $10^{-4}$   $10^{-3}$   $10^{-2}$   $10^{-1}$   $10^0$   $10^1$   $10^2$   $10^3$   $10^4$   $10^5$   $10^6$   $10^7$   $10^8$

Min Ratio Max Ratio

26

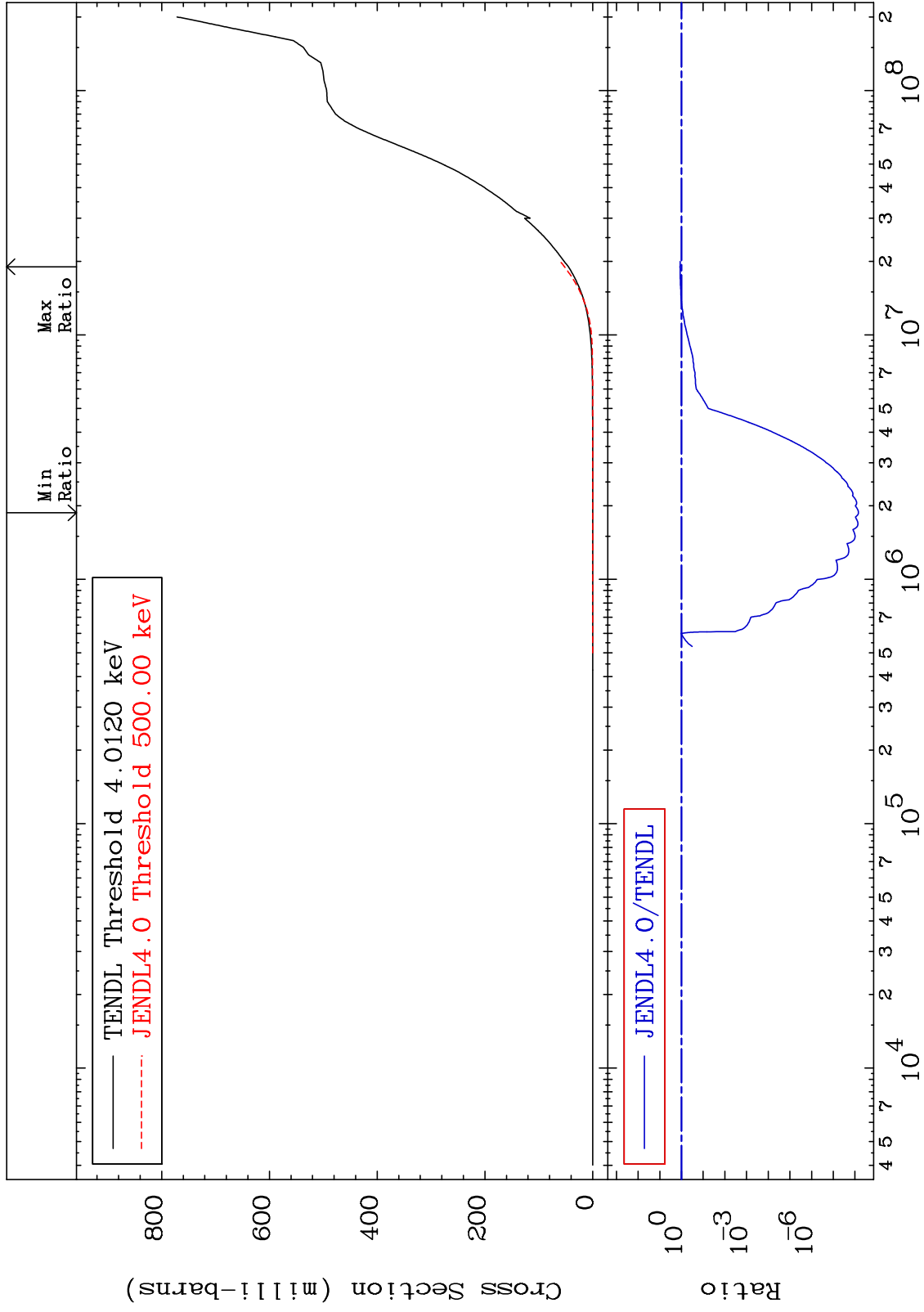
Incident Energy (eV)

53-I -127

MAT 5325

Hydrogen Production  
Cross Section

53-I -127  
-100.0 To 16.59 %



27

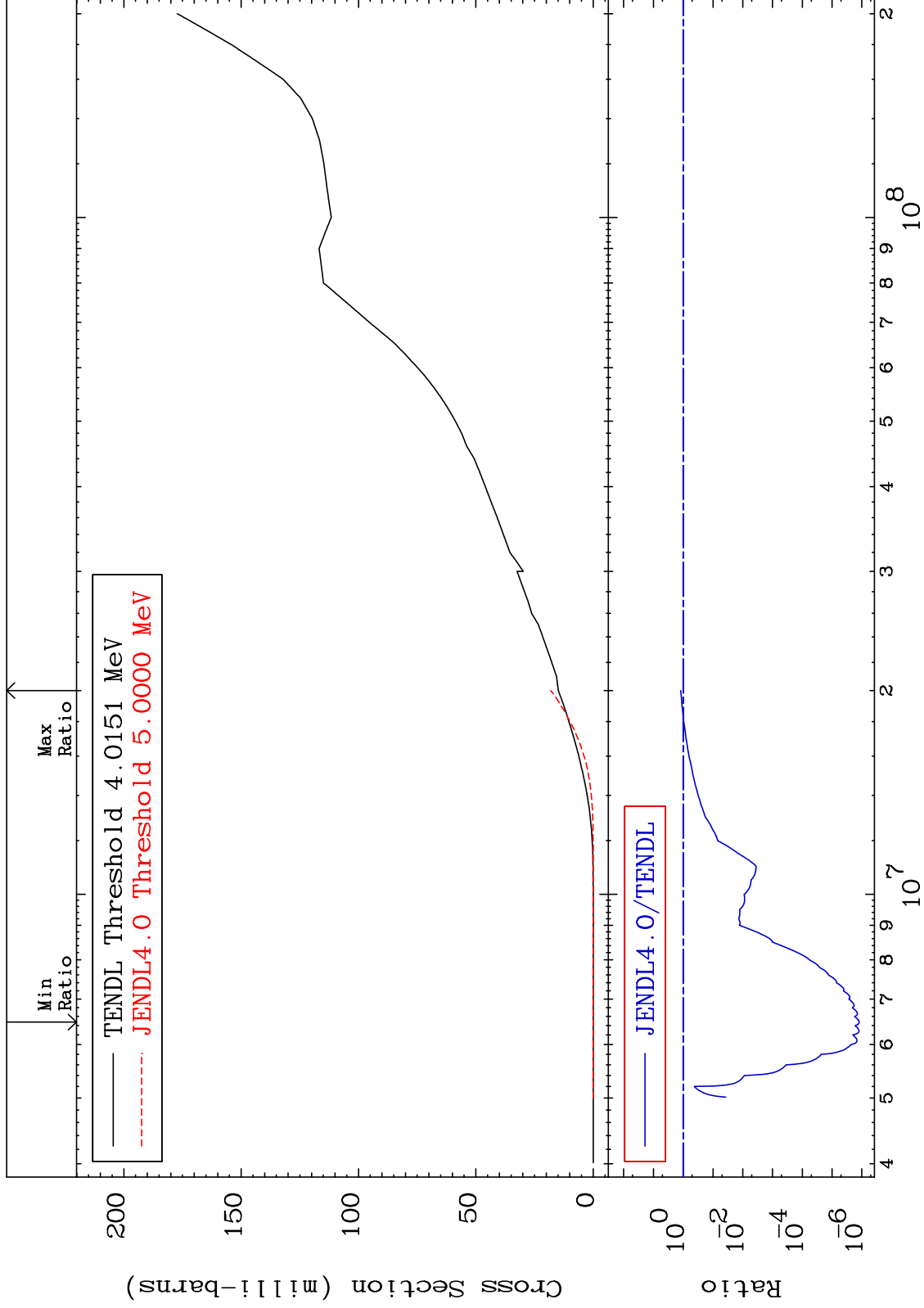
Incident Energy (eV)

53-I -127

MAT 5325

Deuterium Production  
Cross Section

53-I -127  
-100.0 To 22.07 %



28

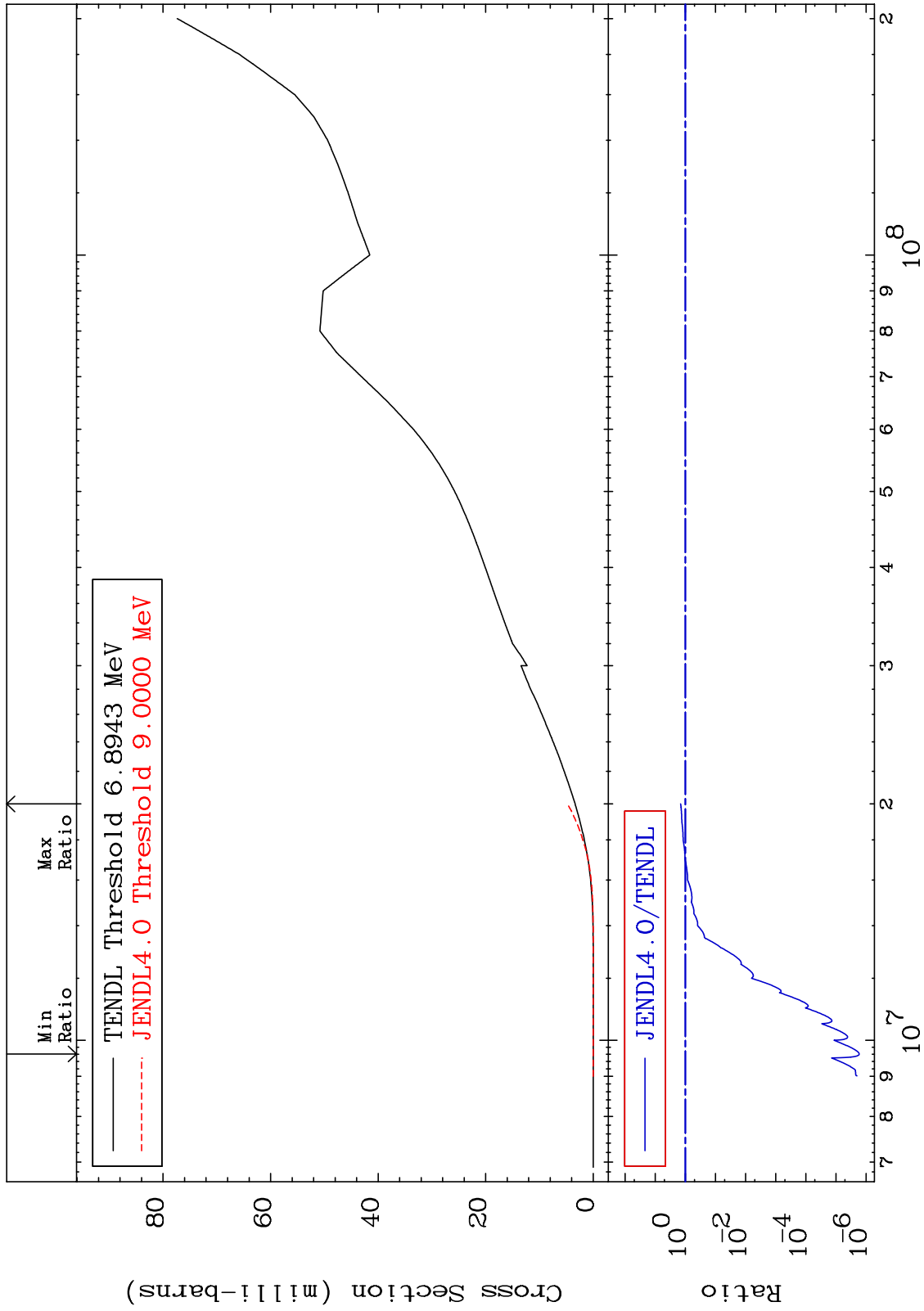
Incident Energy (eV)

53-I -127

MAT 5325

### Tritium Production Cross Section

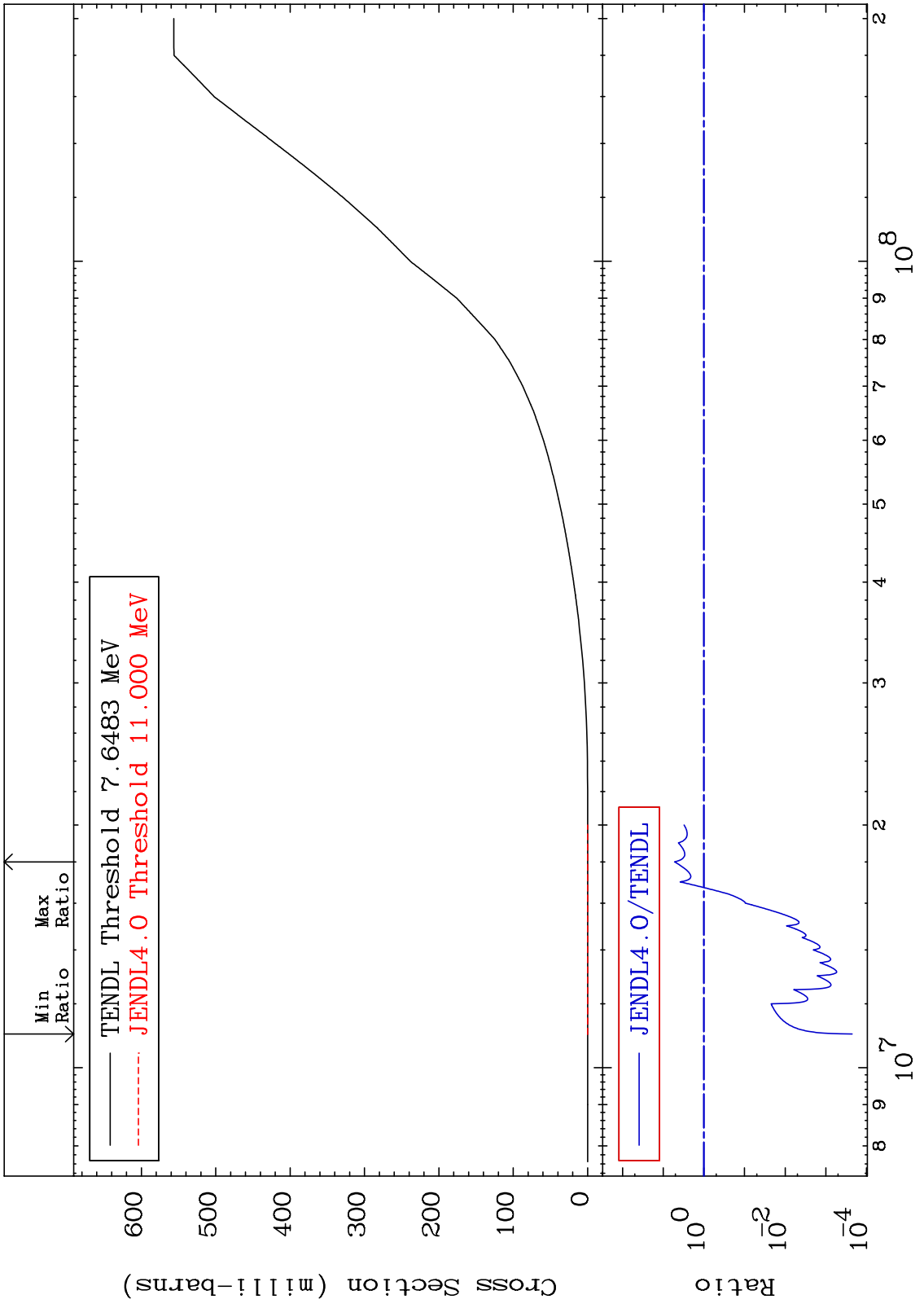
53-I -127  
-100.0 To 43.64 %



MAT 5325

He-3 Production  
Cross Section

53-I -127  
-99.98 To 425.5 %



30

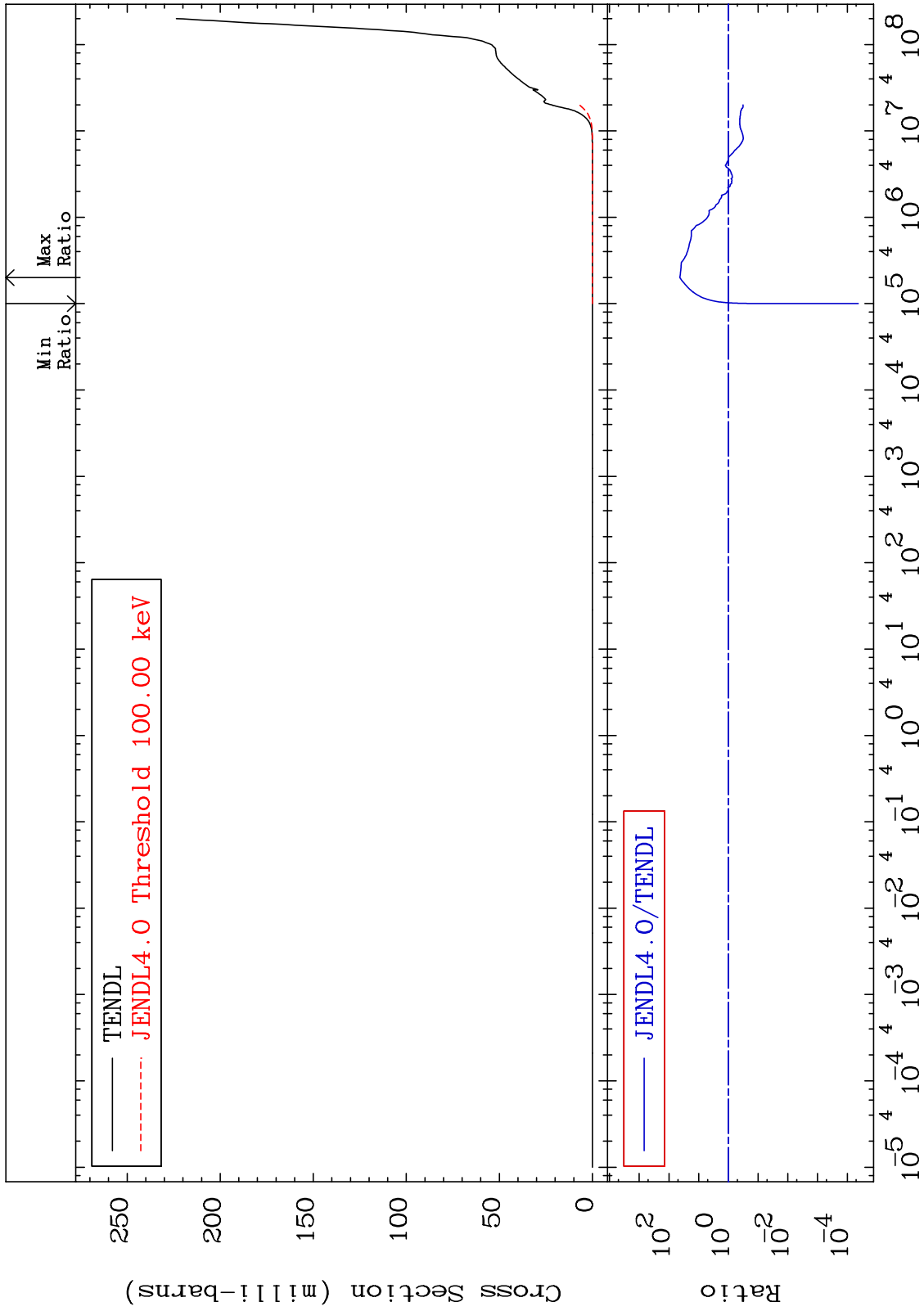
Incident Energy (eV)

53-I -127

MAT 5325

He-4 Production  
Cross Section

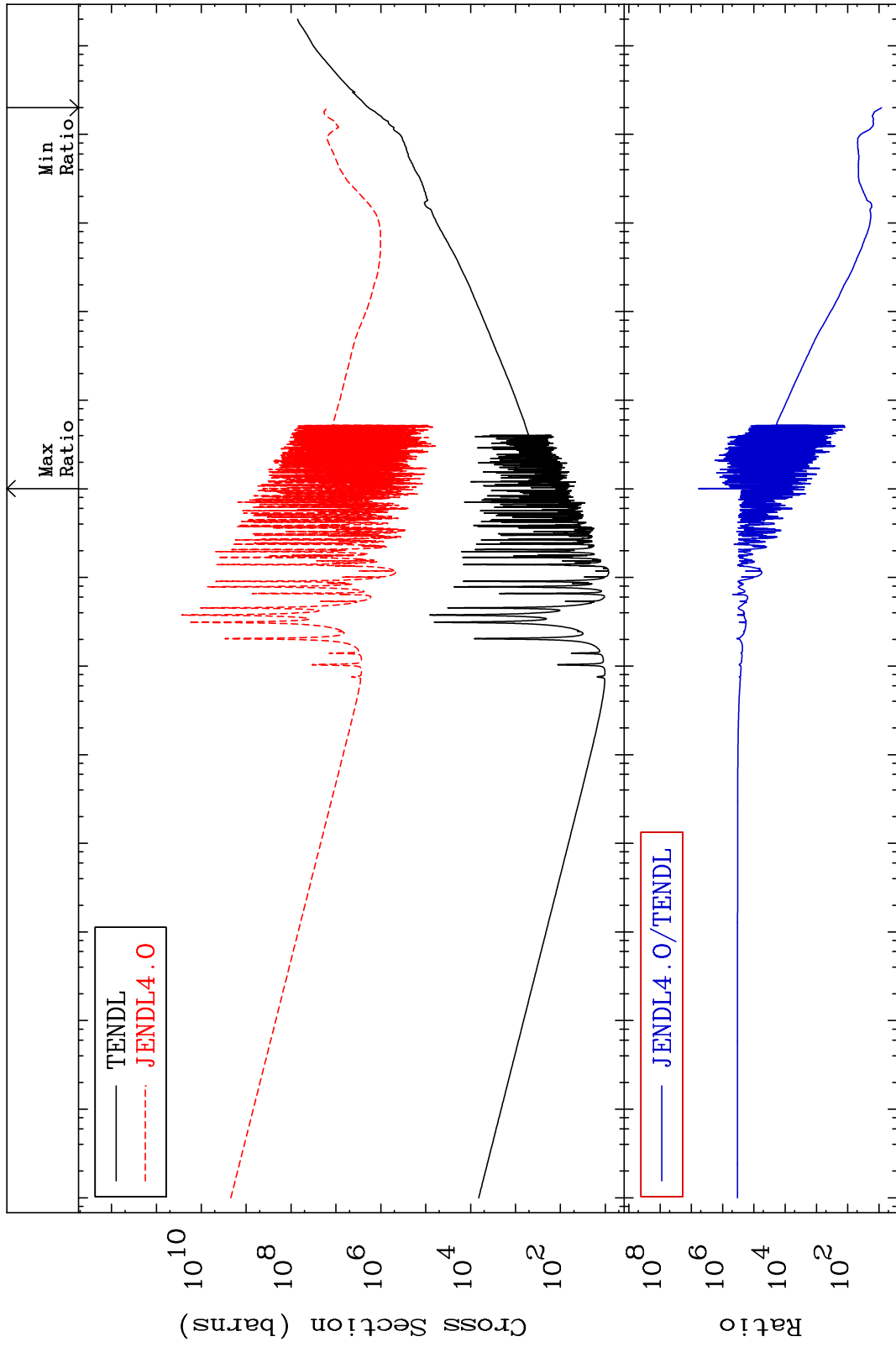
53-I -127  
-100.0 To 4215. %



MAT 5325

Kerma total (eV-barns)  
Cross Section

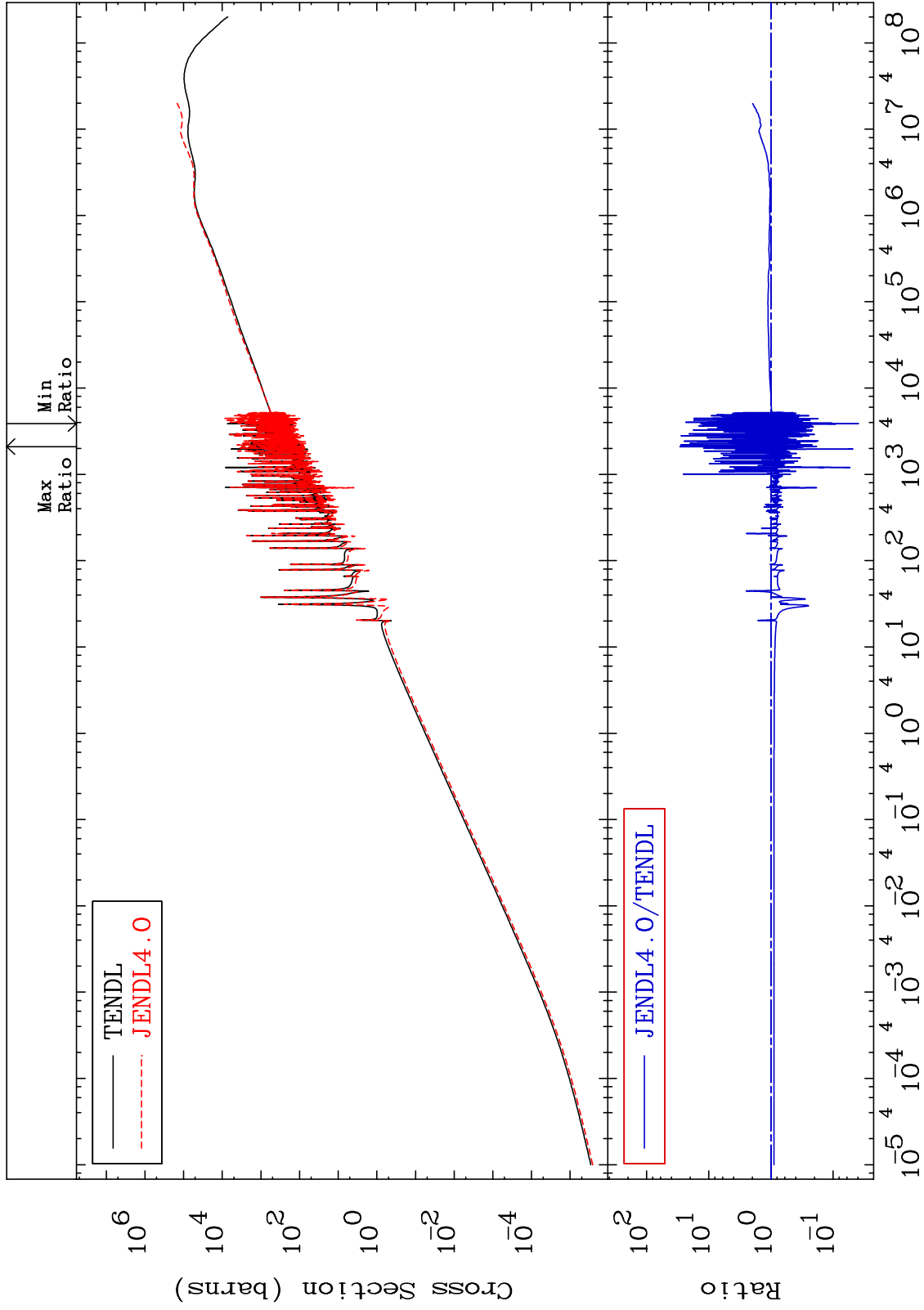
53-I -127  
727.8 To 9999. %



MAT 5325

Kerma elastic  
Cross Section

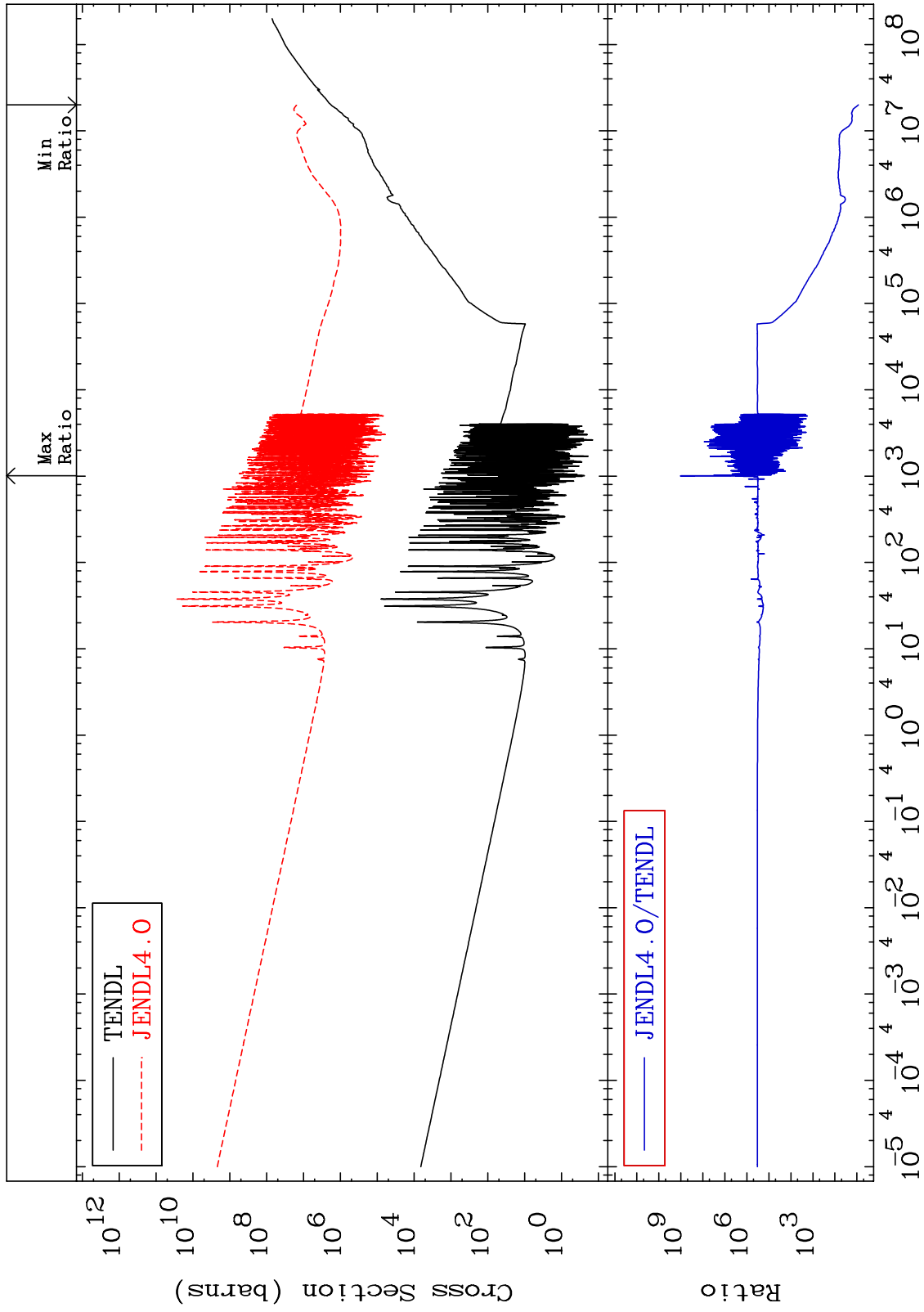
53-I -127  
-96.08 To 2808. %



MAT 5325

Kerma non-elastic (all but mt2)  
Cross Section

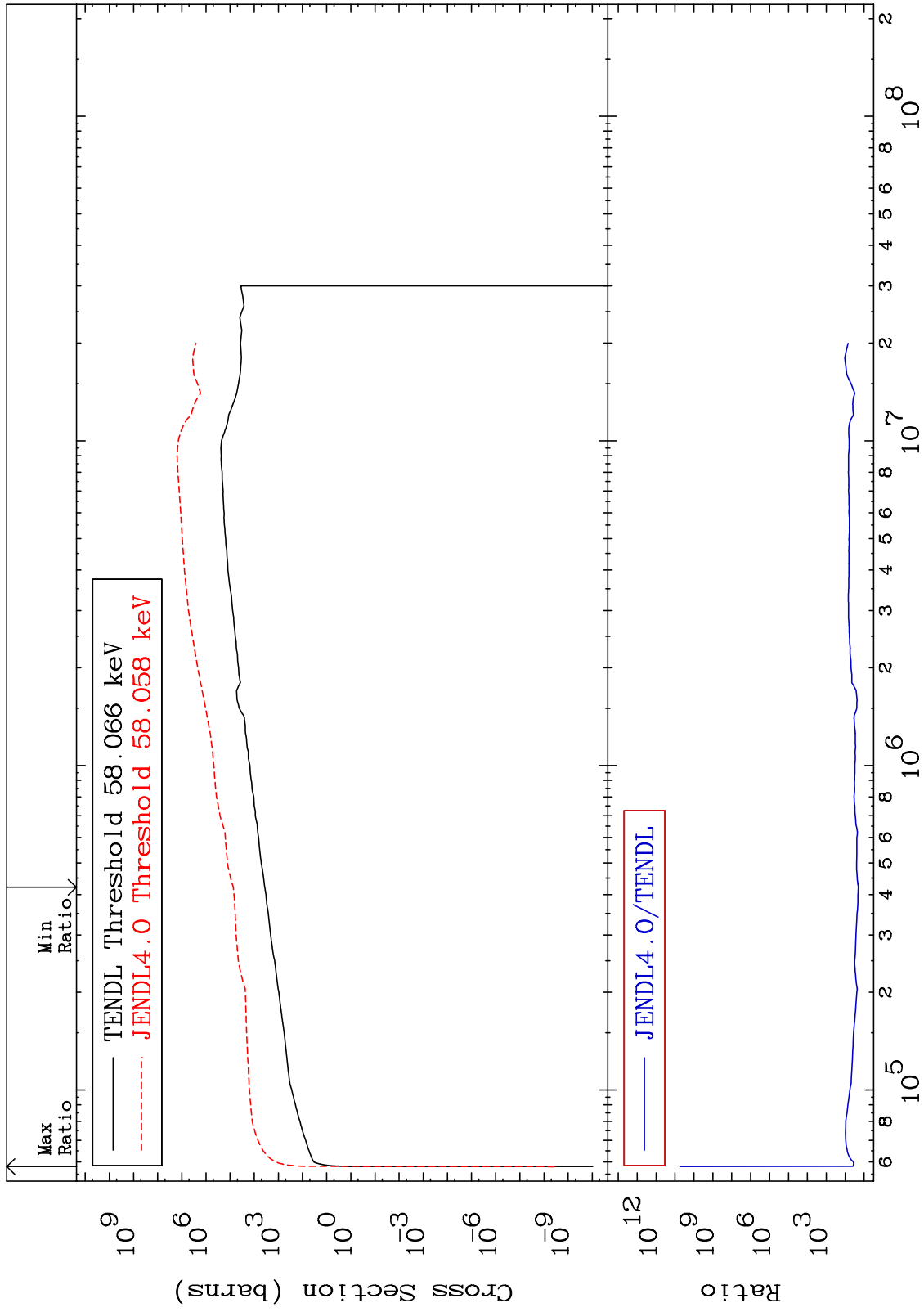
53-I -127  
753.9 To 9999. %

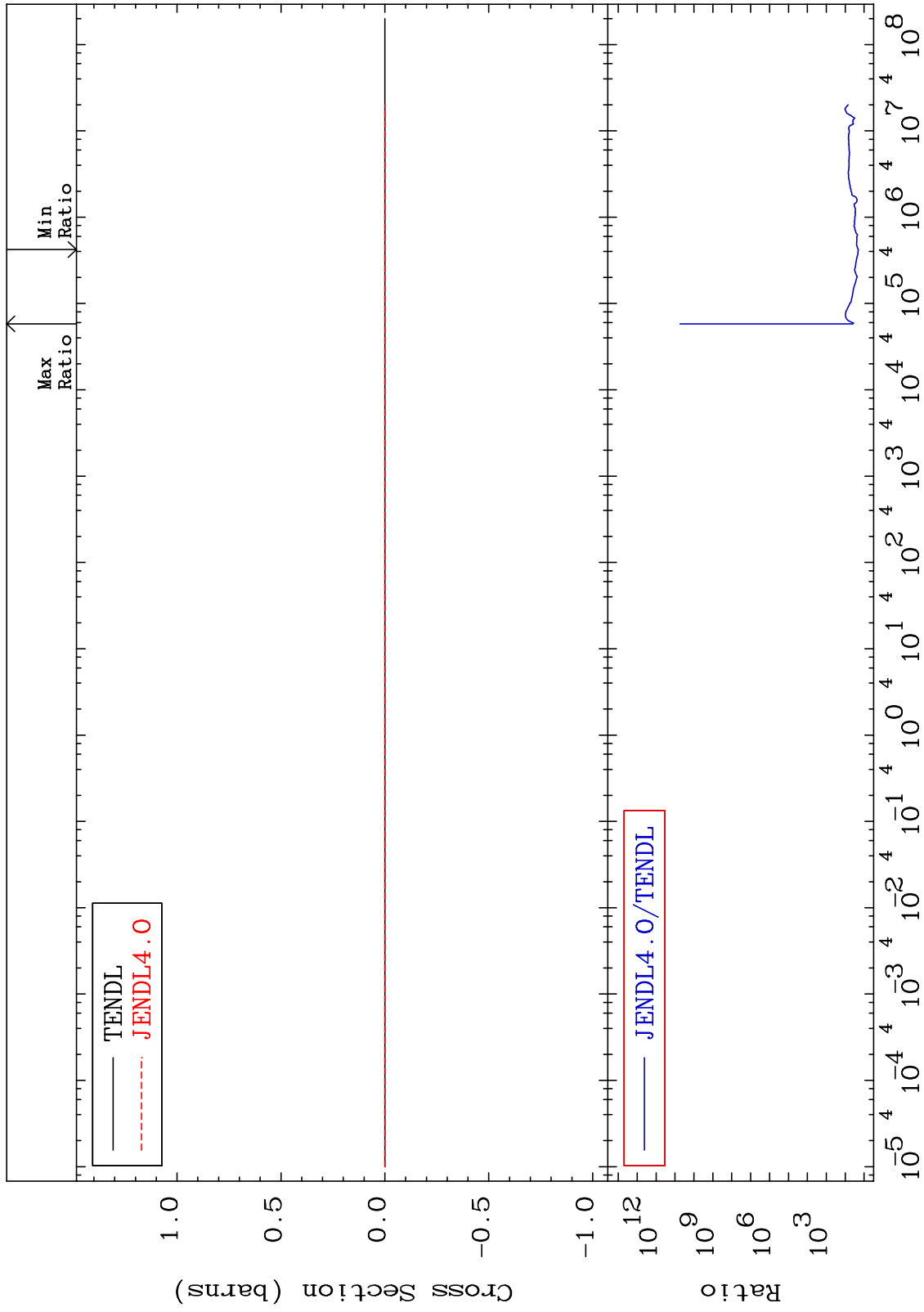


MAT 5325

Kerma inelastic (mt51-91)  
Cross Section

53-I -127  
1905. To 9999. %

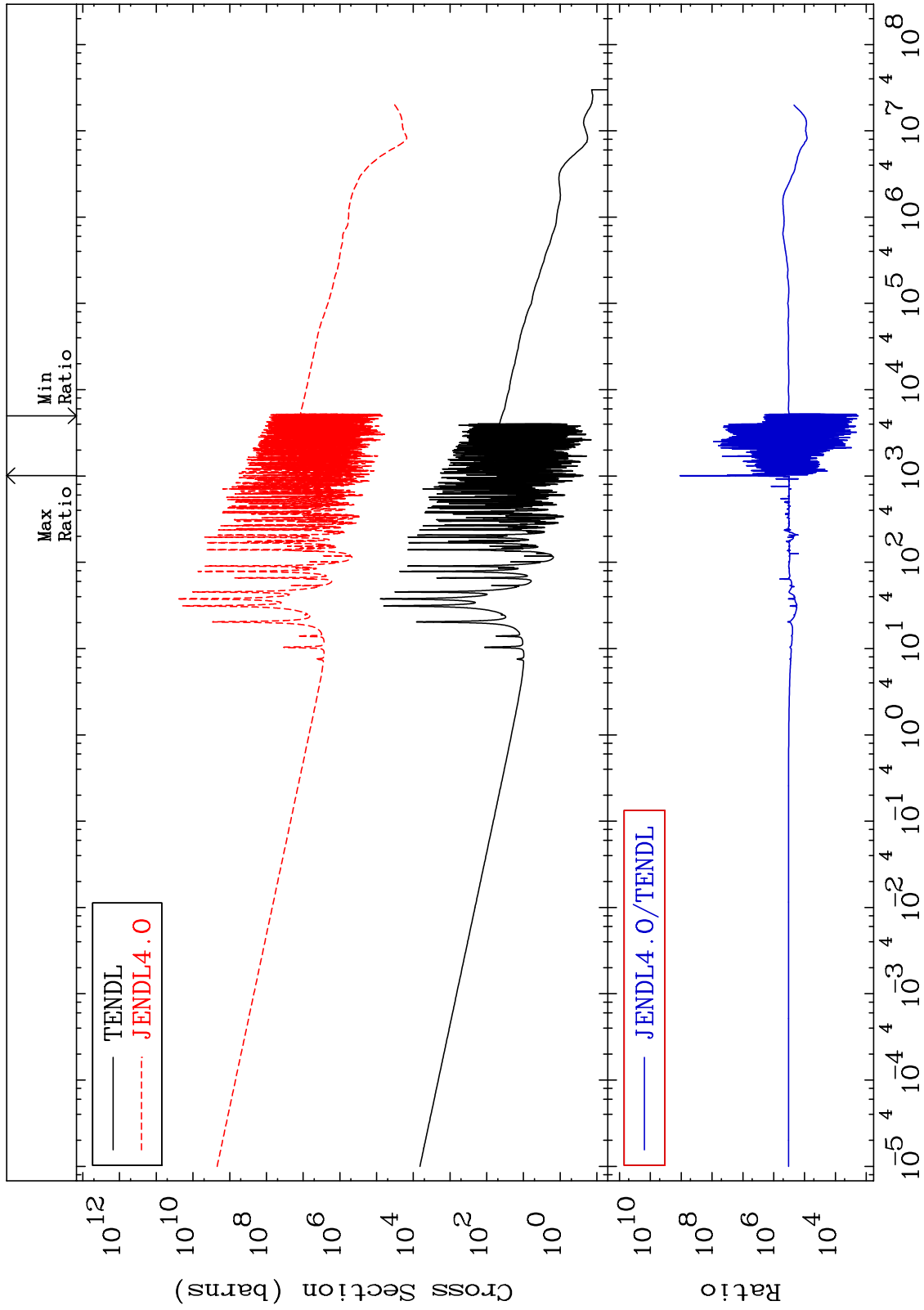




MAT 5325

Kerma capture (mt102)  
Cross Section

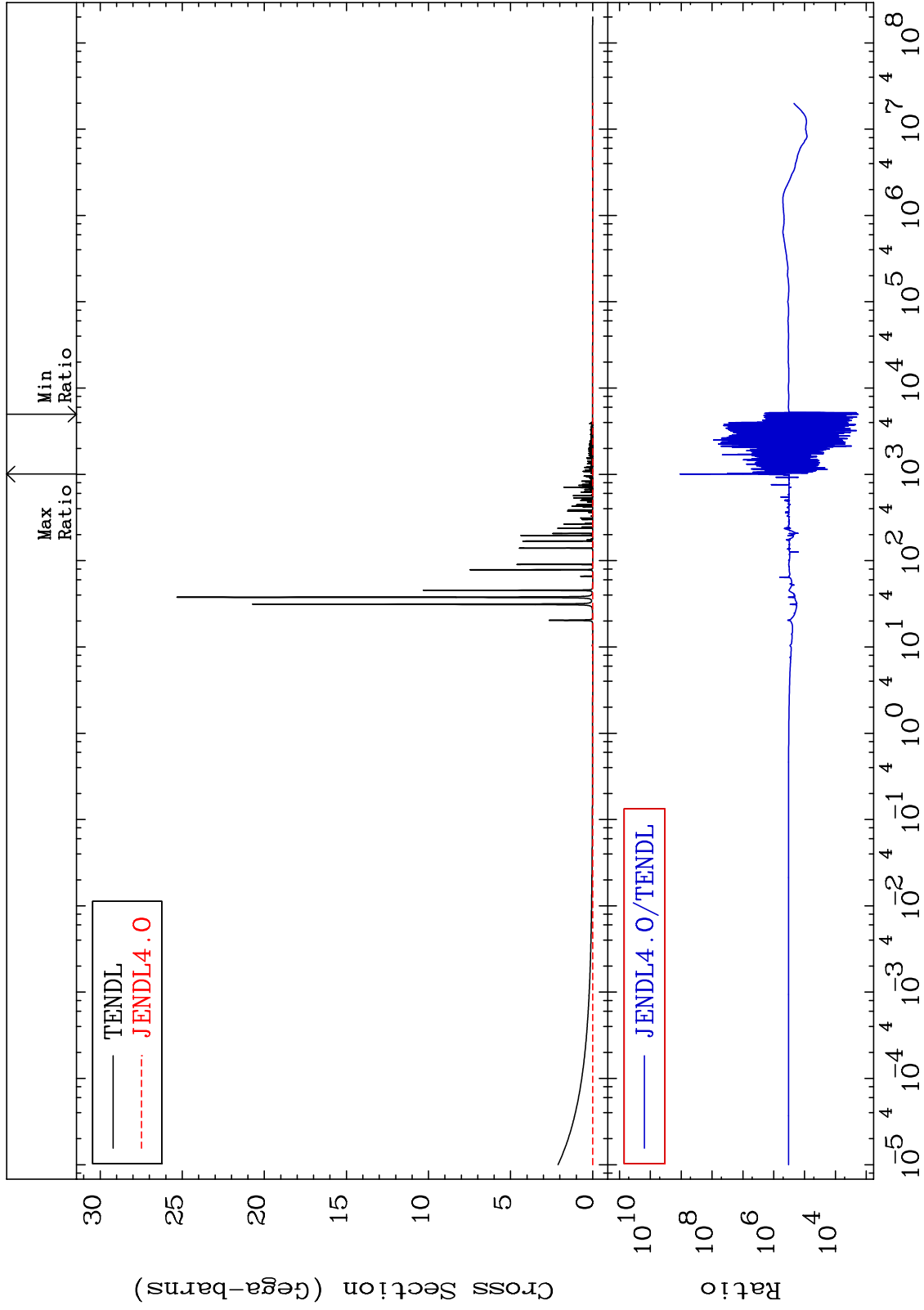
53-I -127  
9999. To 9999. %



MAT 5325

Total photon (eV-barns)  
Cross Section

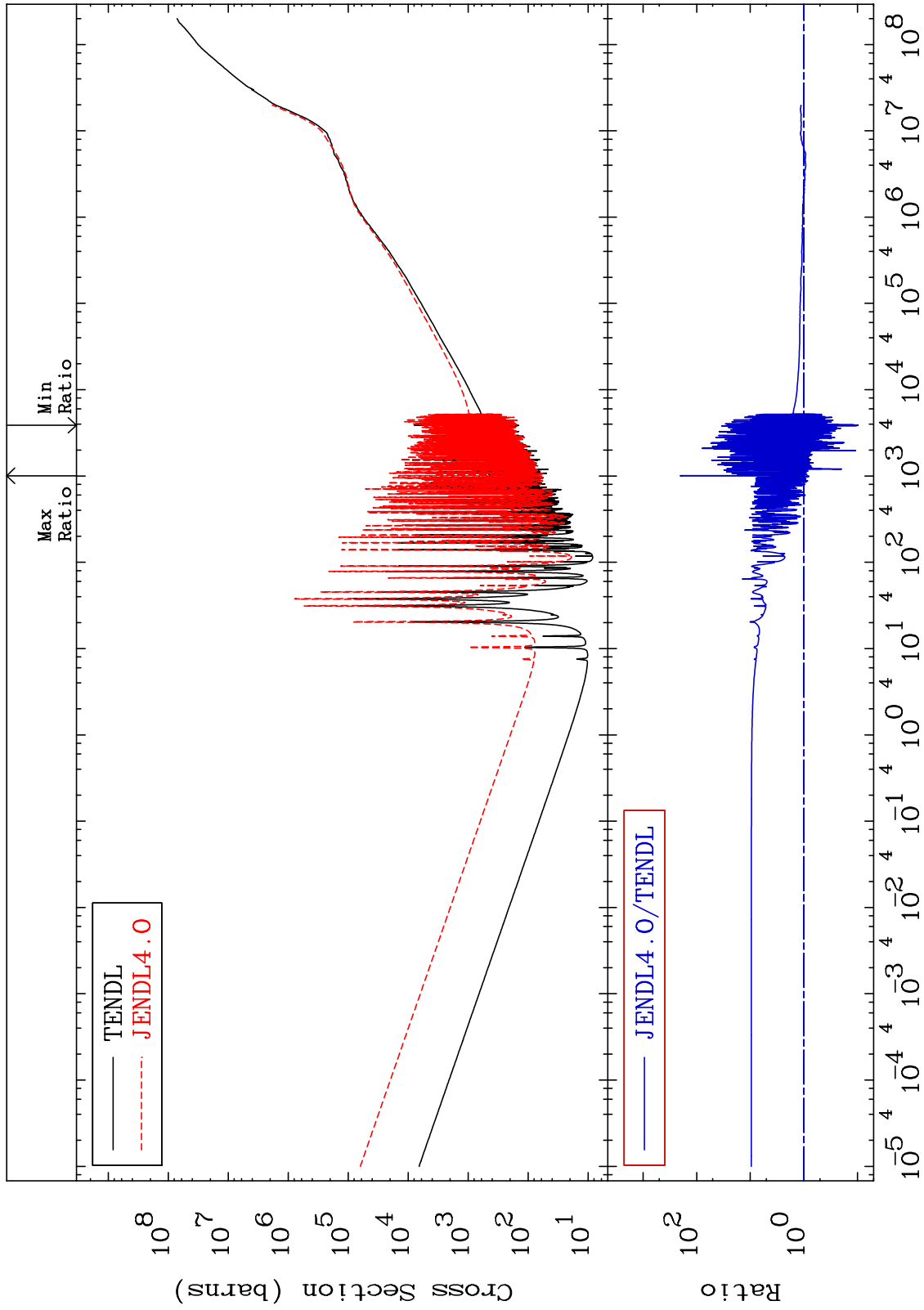
53-I -127  
9999. To 9999. %



MAT 5325

Total kinematic kerma (high limit)  
Cross Section

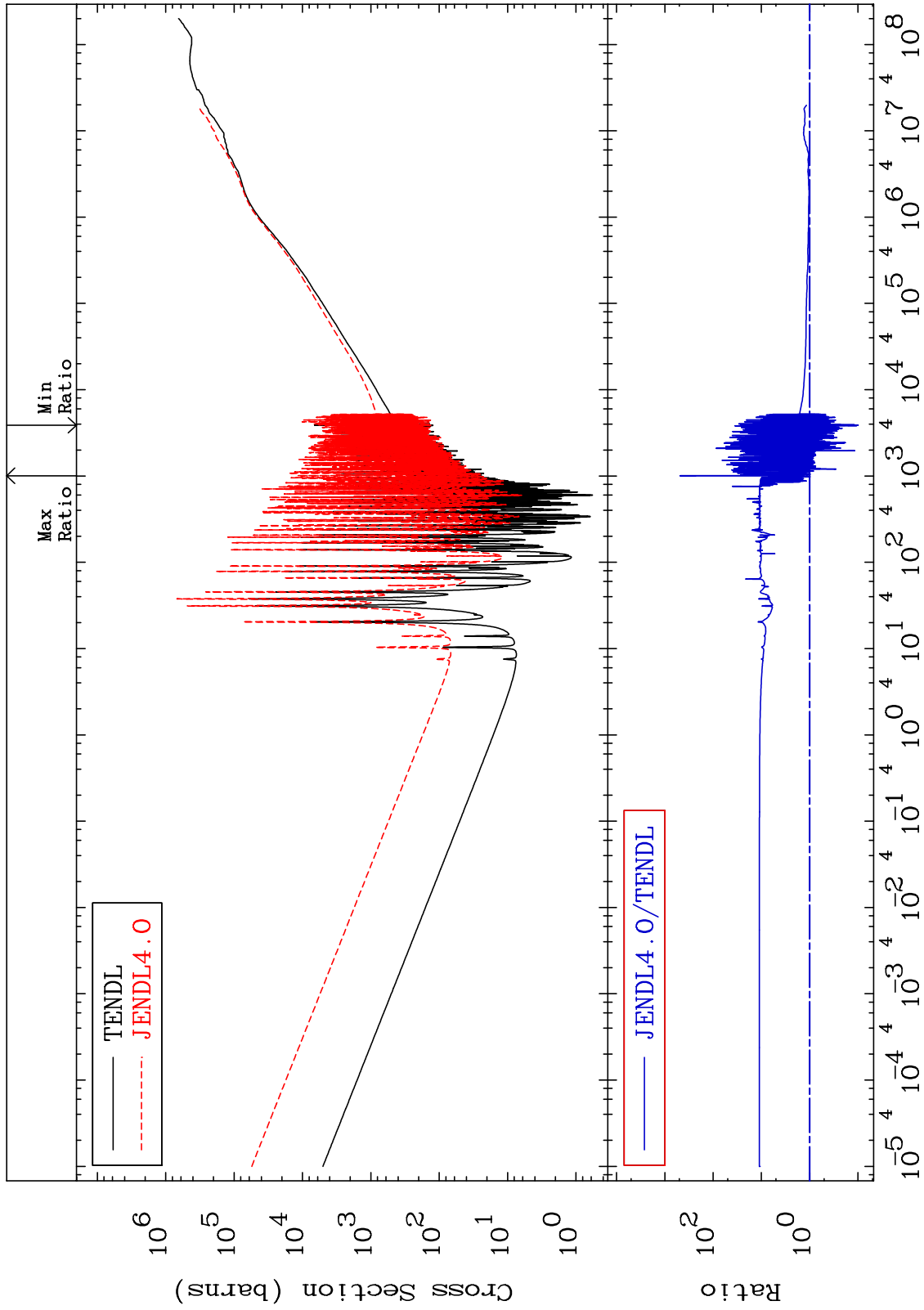
53-I -127  
-90.41 To 9999. %



MAT 5325

Dpa total (eV-barns)  
Cross Section

53-I -127  
-90.22 To 9999. %



40

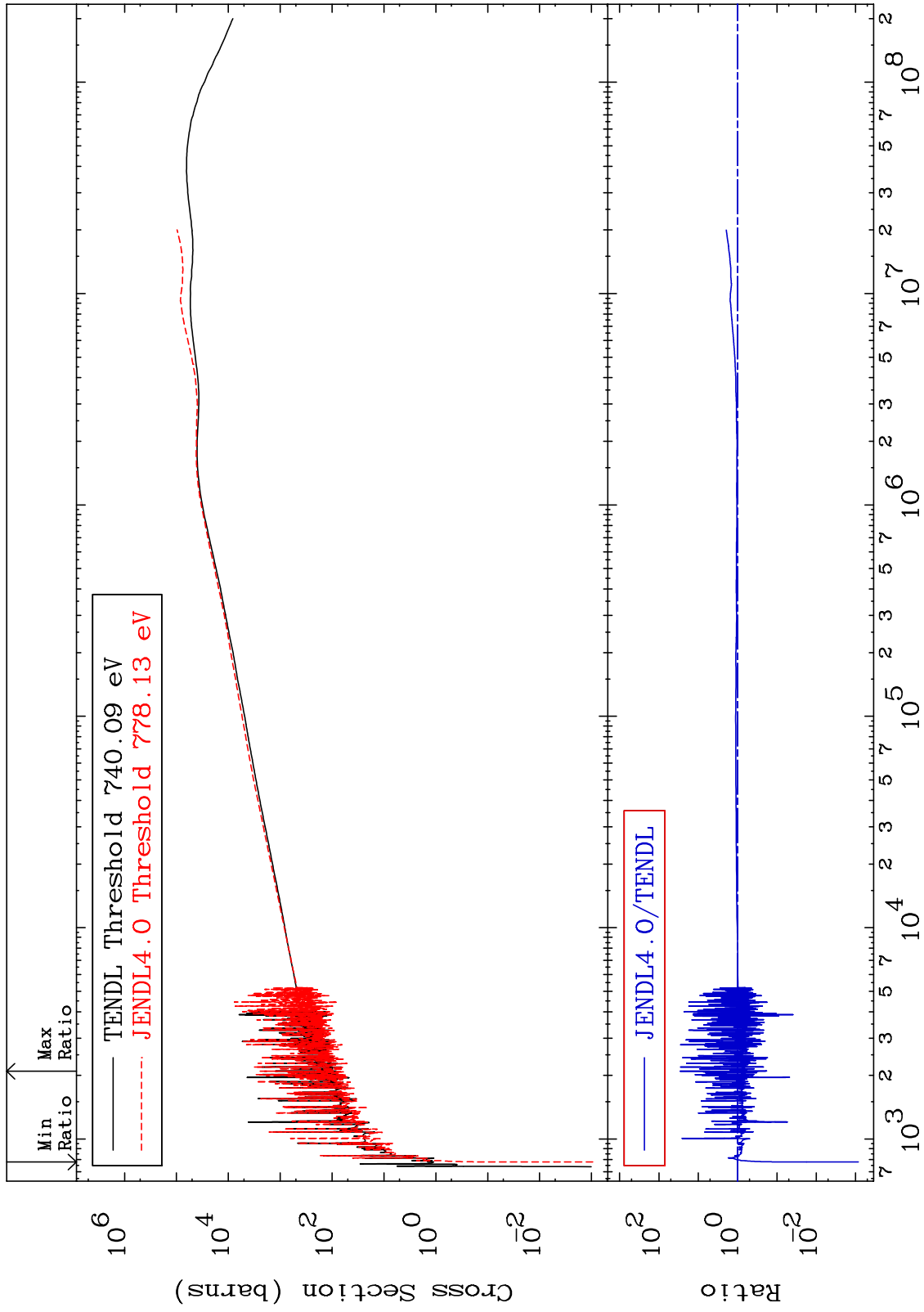
Incident Energy (eV)

53-I -127

MAT 5325

Dpa elastic (mt2)  
Cross Section

53-I -127  
-99.92 To 2808. %



41

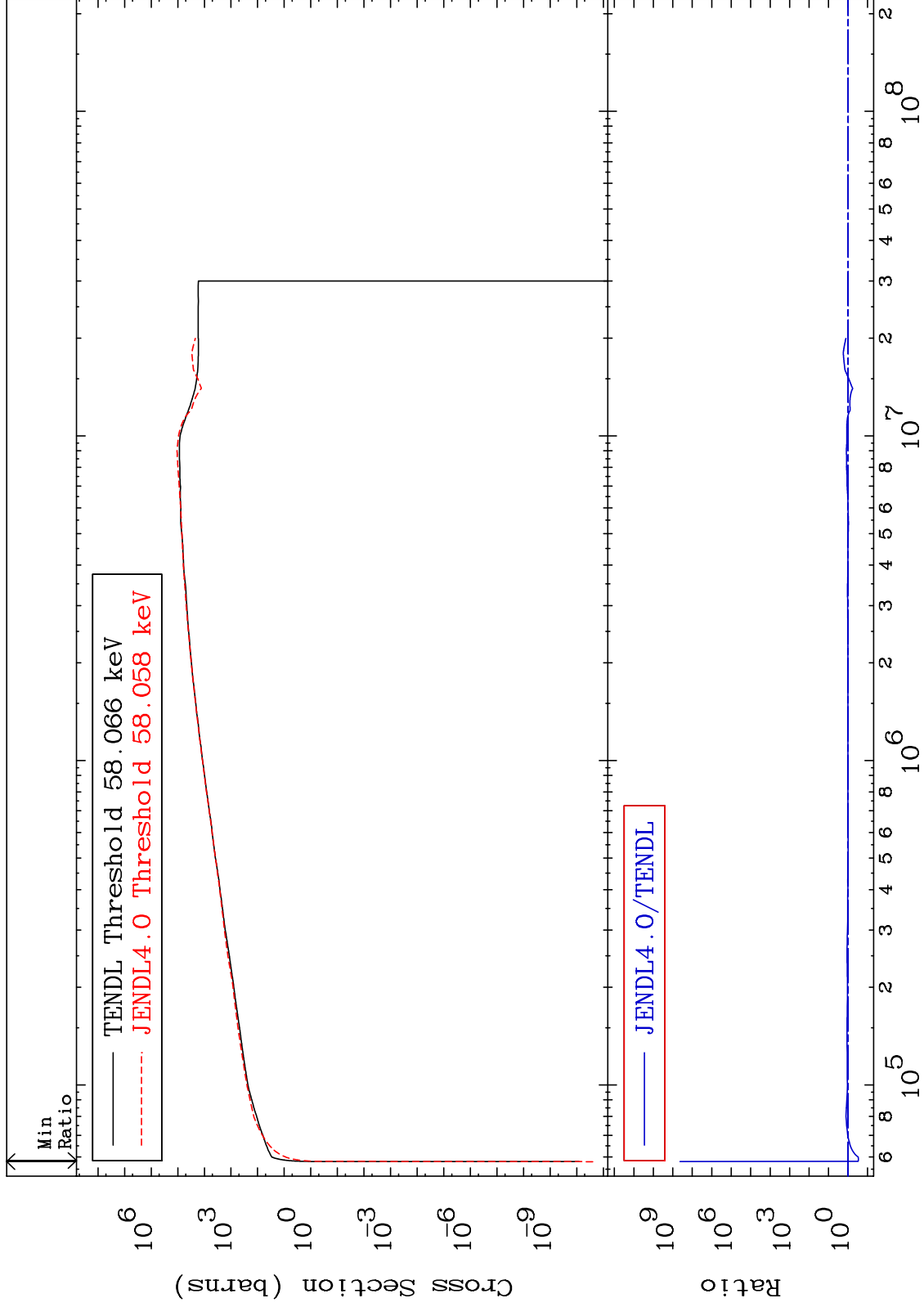
Incident Energy (eV)

53-I -127

MAT 5325

Dpa inelastic (mt51-91)  
Cross Section

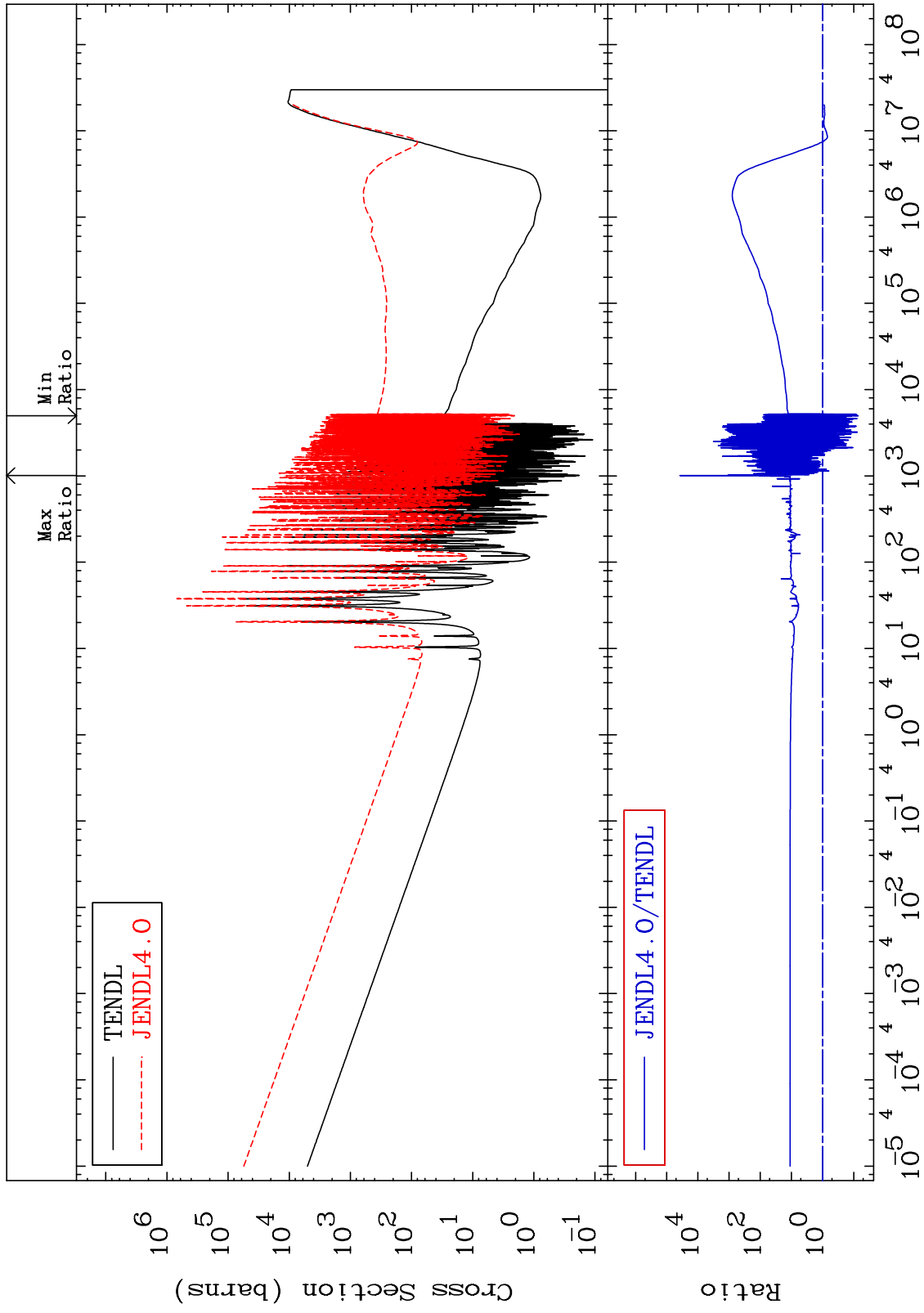
53-I -127  
-70.64 To 9999. %



MAT 5325

Dpa disappearance (mt102 -120)  
Cross Section

53-I -127  
-92.88 To 9999. %



43

Incident Energy (eV)

53-I -127

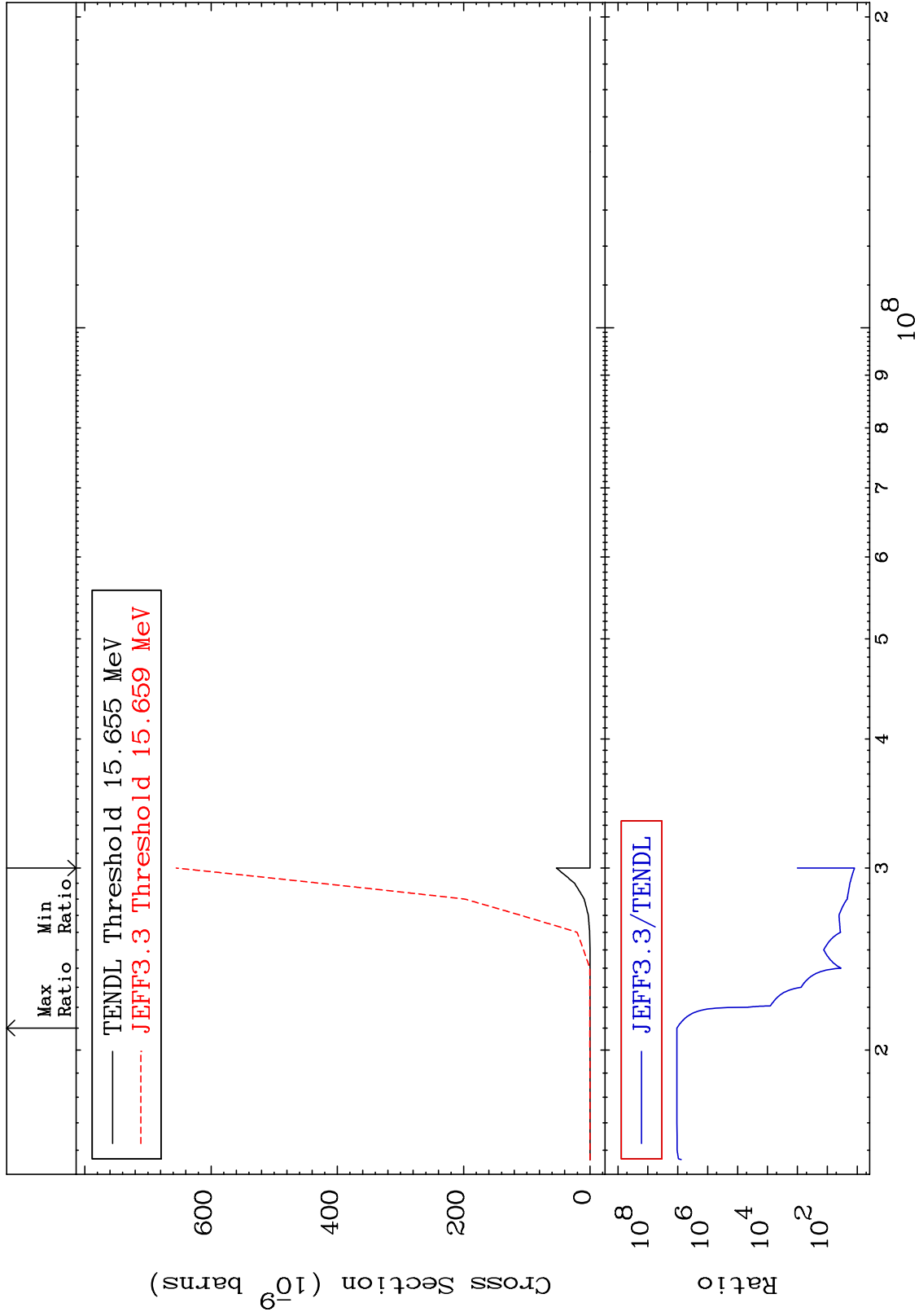
MAT 5325

(n,p) t

53-I -127

Cross Section

1130. To 9999. %



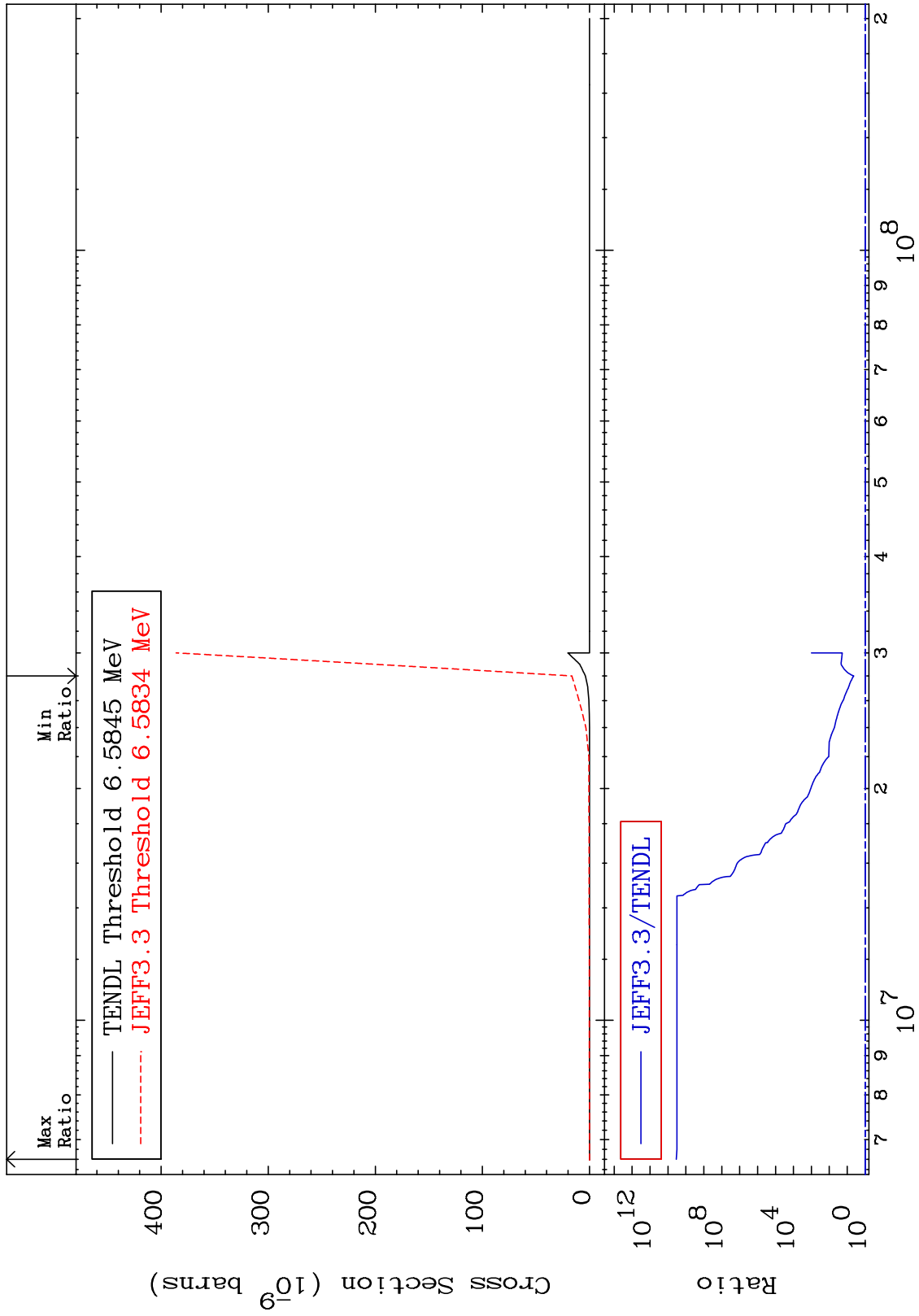
MAT 5325

(n,d)  $\alpha$

53-I -127

Cross Section

332.8 To 9999. %



45

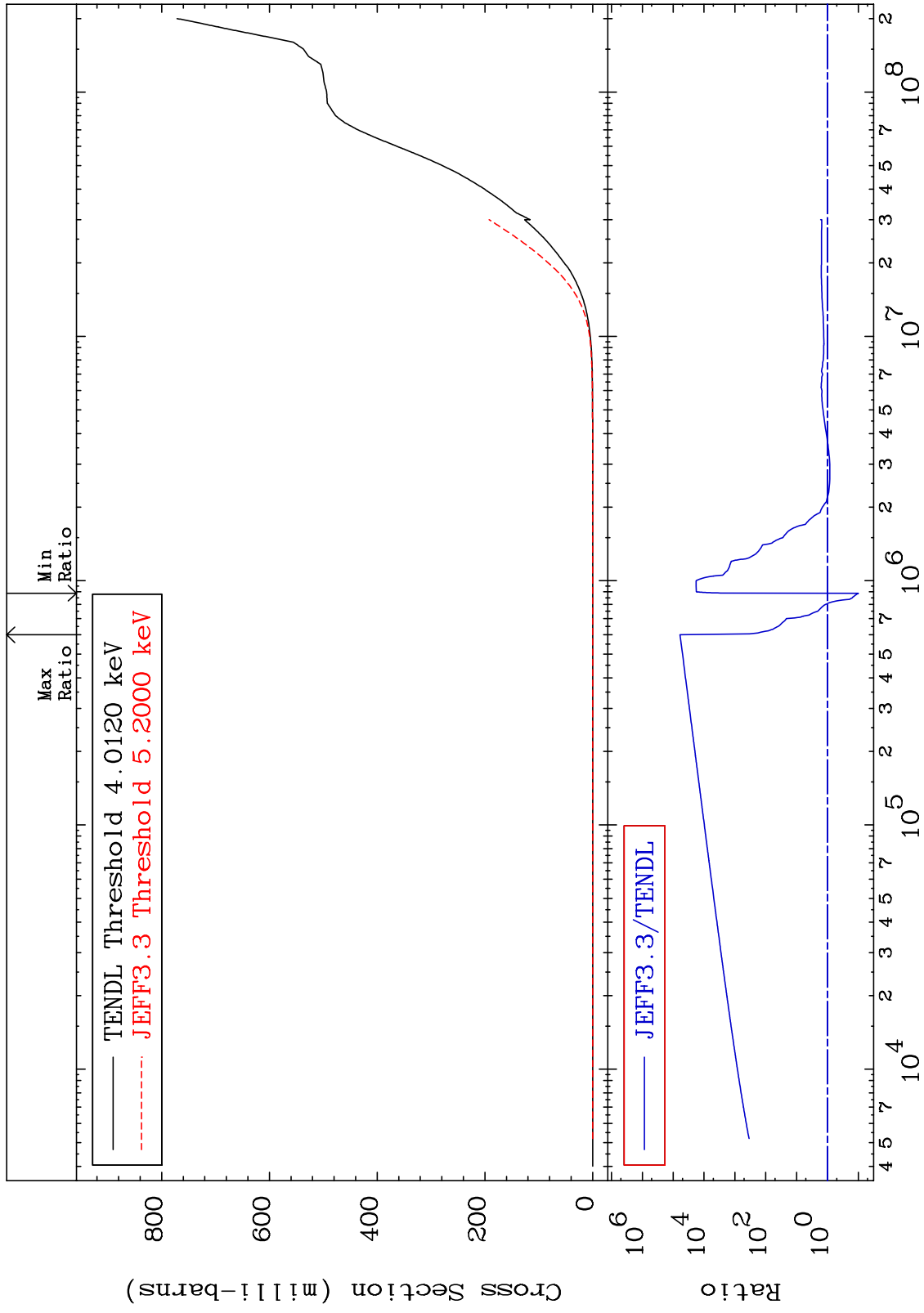
Incident Energy (eV)

53-I -127

MAT 5325

Hydrogen Production  
Cross Section

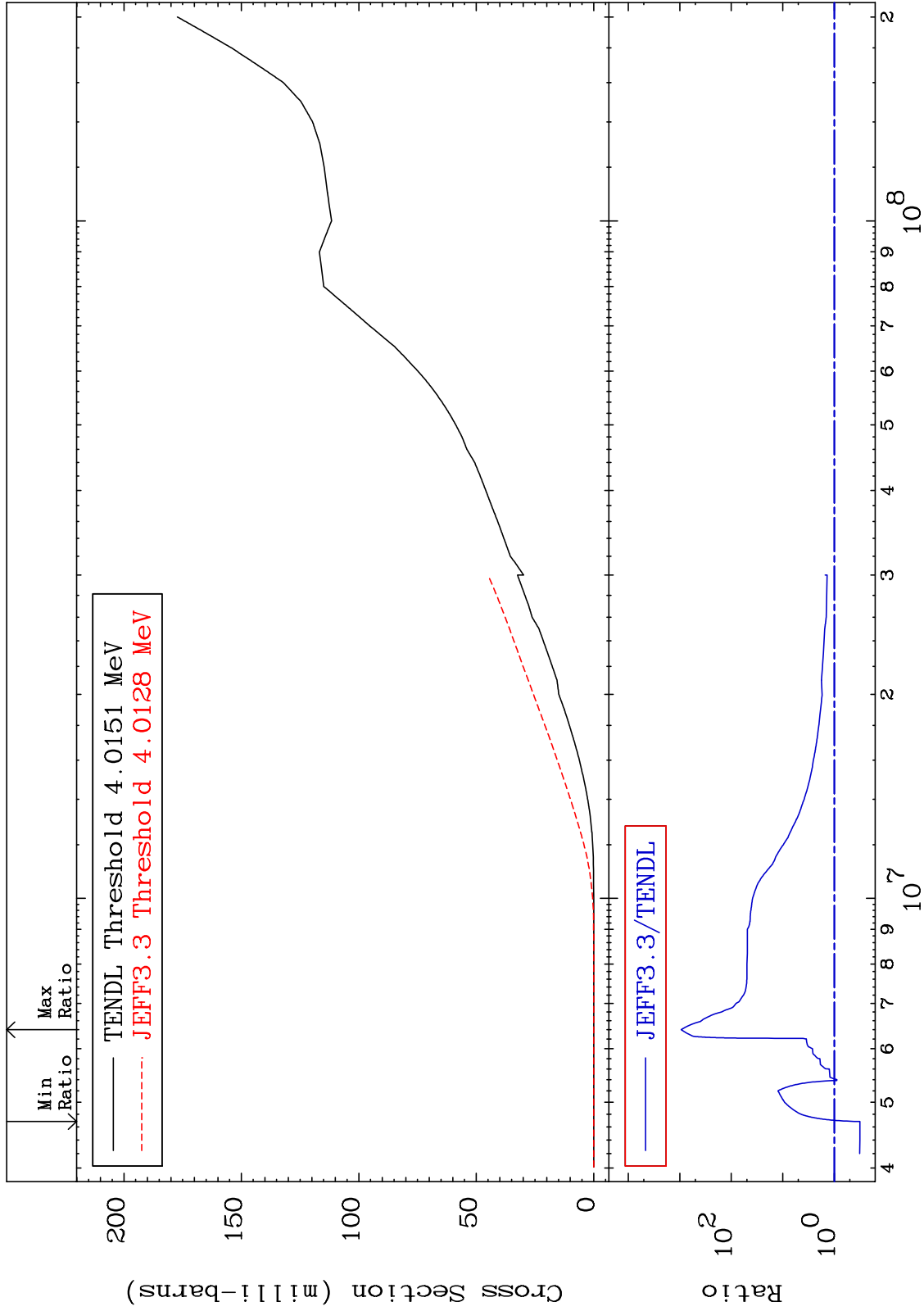
53-I -127  
-90.10 To 9999. %



MAT 5325

Deuterium Production  
Cross Section

53-I -127  
-68.07 To 9999. %



47

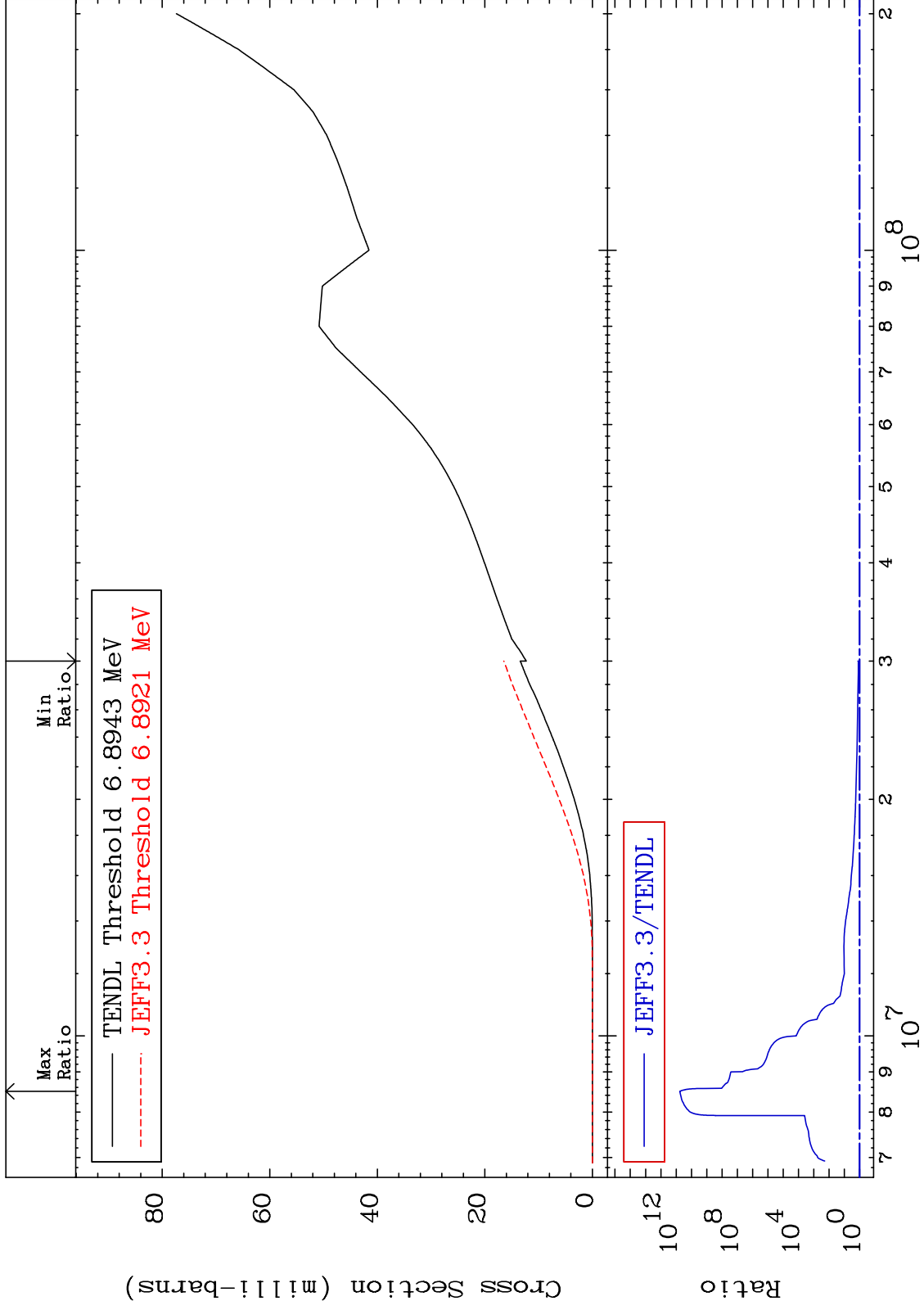
Incident Energy (eV)

53-I -127

MAT 5325

Tritium Production  
Cross Section

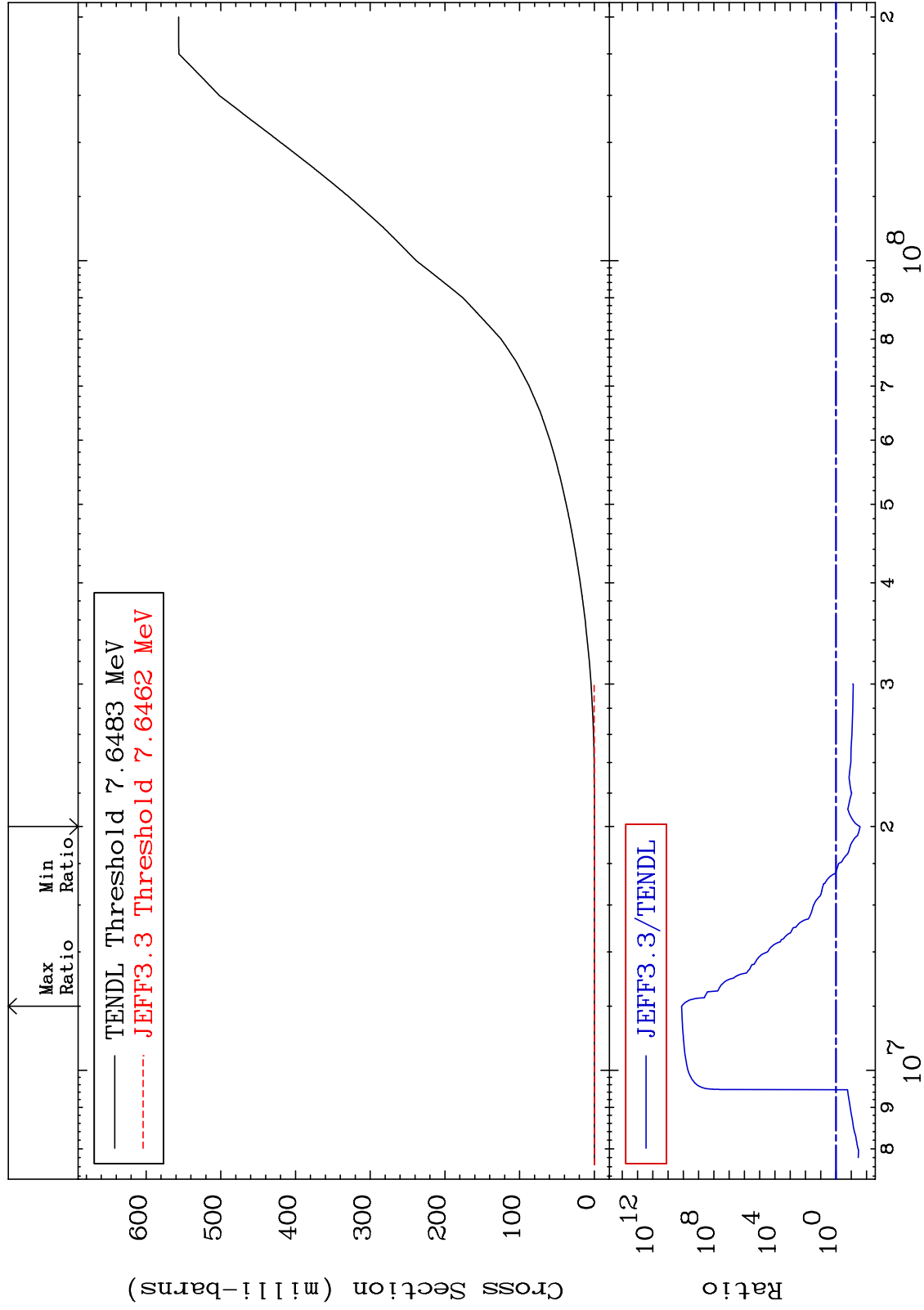
53-I -127  
22.66 To 9999. %



48

Incident Energy (eV)

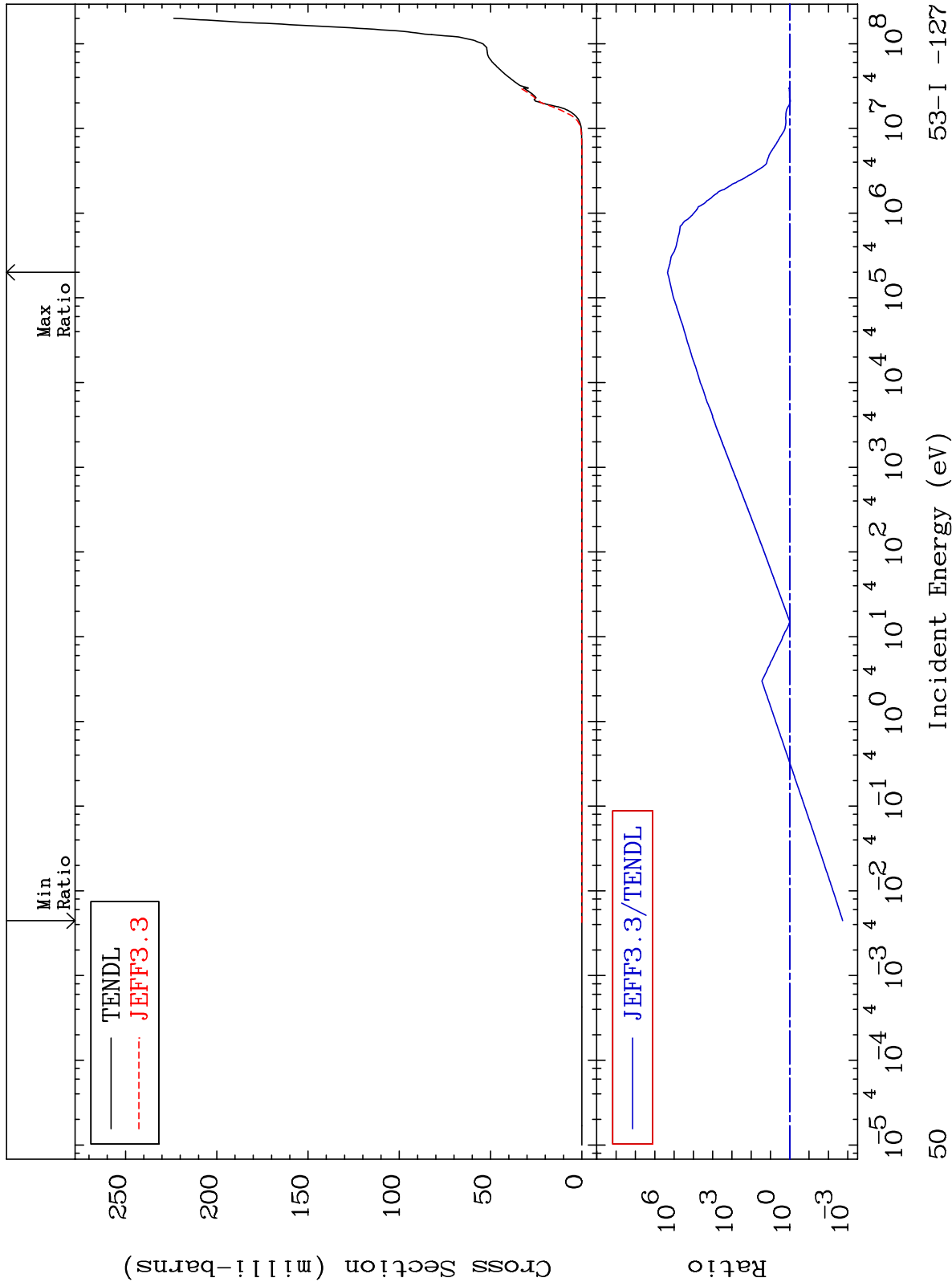
53-I -127



MAT 5325

He-4 Production  
Cross Section

53-I -127  
-99.82 To 9999. %



50

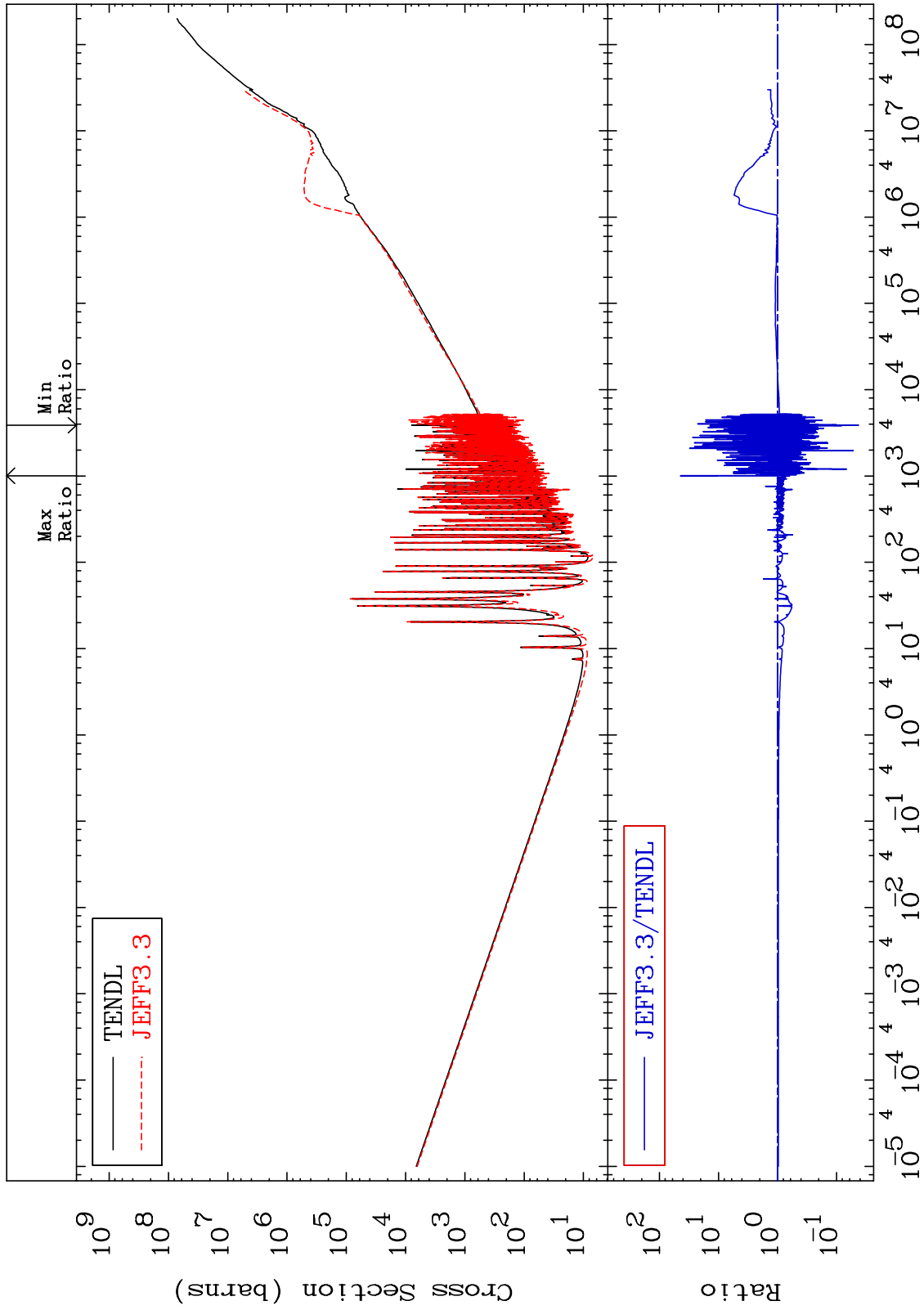
Incident Energy (eV)

53-I -127

MAT 5325

Kerma total (eV-barns)  
Cross Section

53-I -127  
-95.74 To 4391. %



51

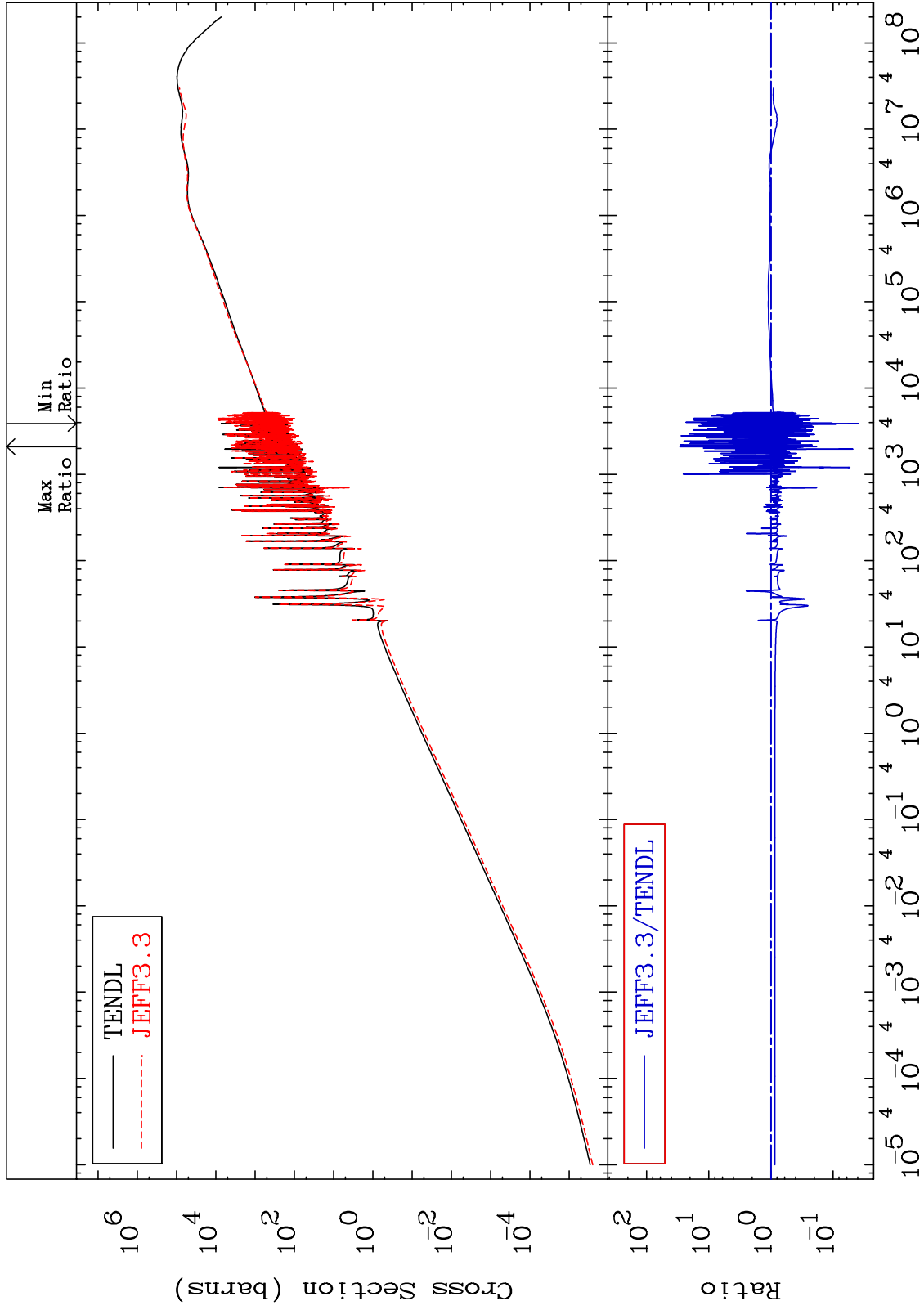
Incident Energy (eV)

53-I -127

MAT 5325

Kerma elastic  
Cross Section

53-I -127  
-96.09 To 2801. %



52

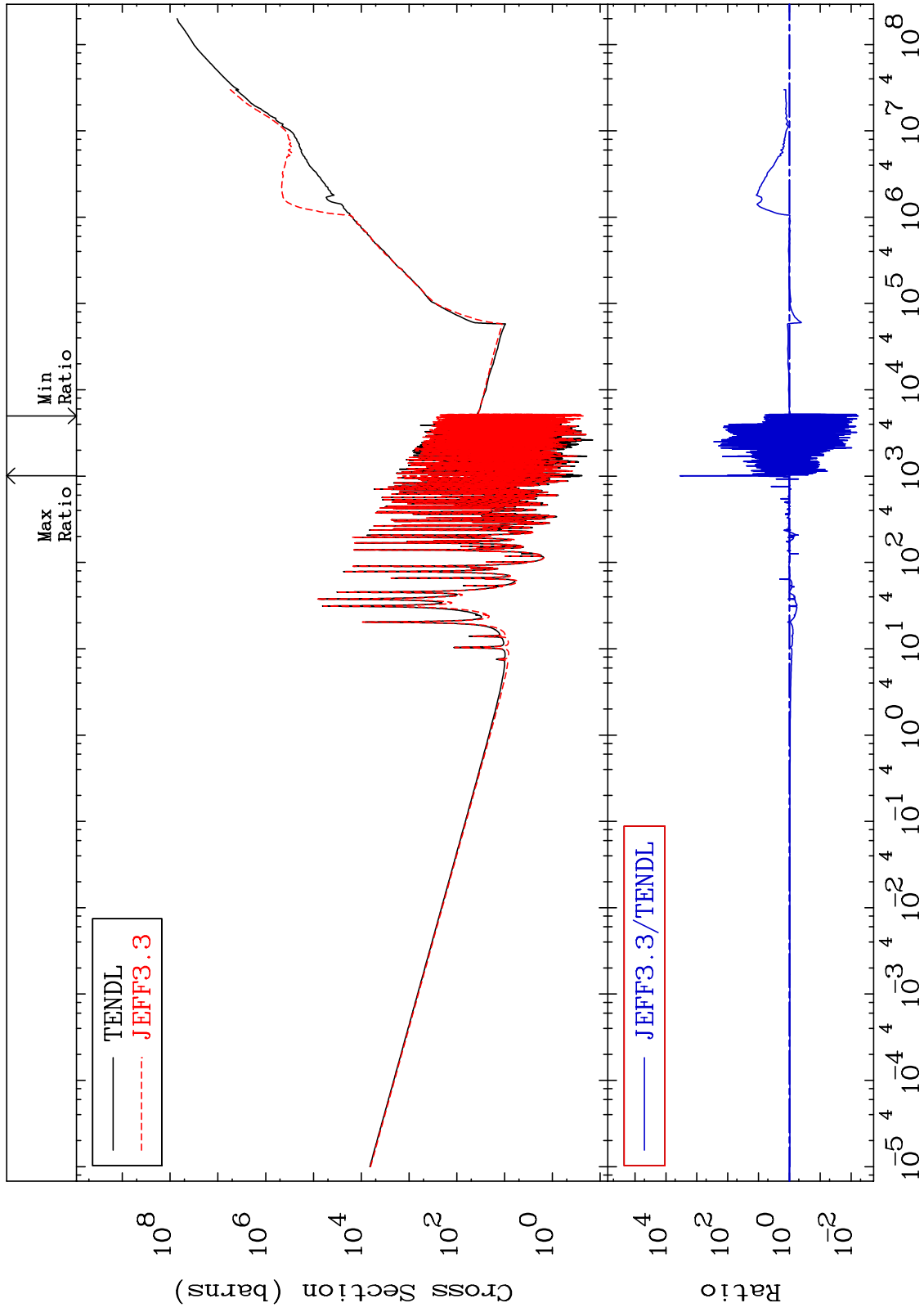
Incident Energy (eV)

53-I -127

MAT 5325

Kerma non-elastic (all but mt2)  
Cross Section

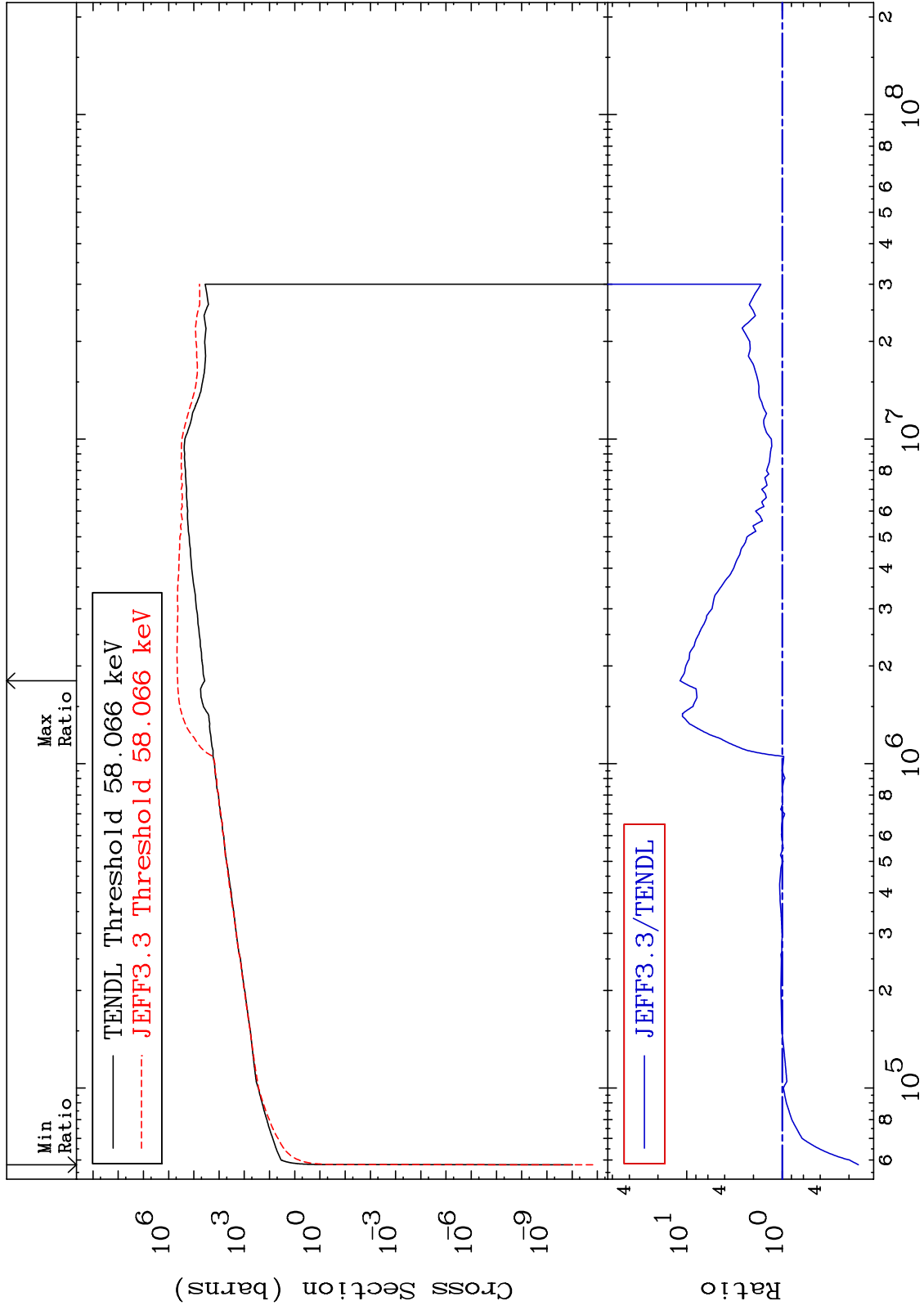
53-I -127  
-99.42 To 9999. %



53

Incident Energy (eV)

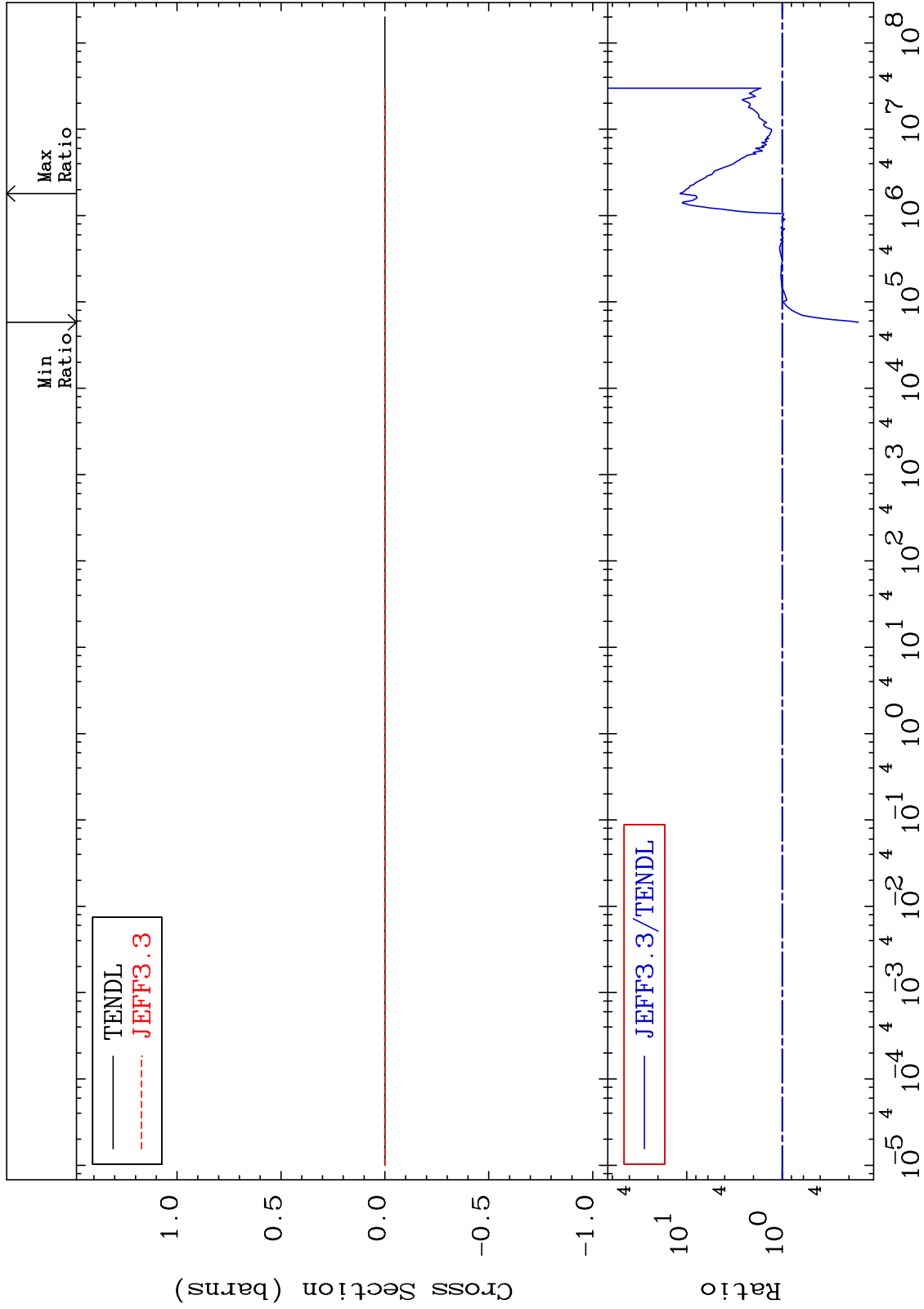
53-I -127



MAT 5325

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

53-I -127  
-84.10 To 1076. %



55

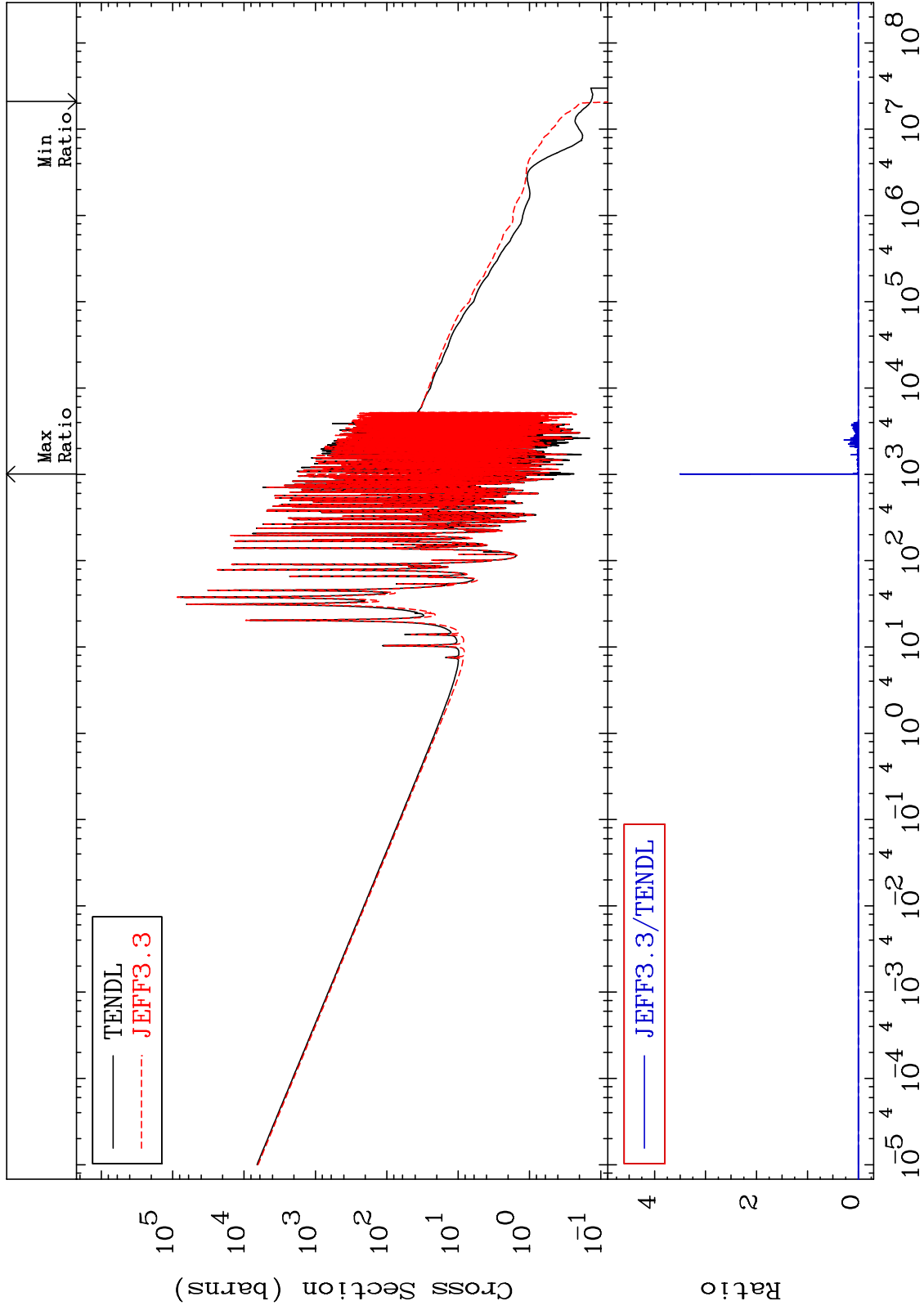
Incident Energy (eV)

53-I -127

MAT 5325

Kerma capture (mt102)  
Cross Section

53-I -127  
-100.0 To 9999. %



56

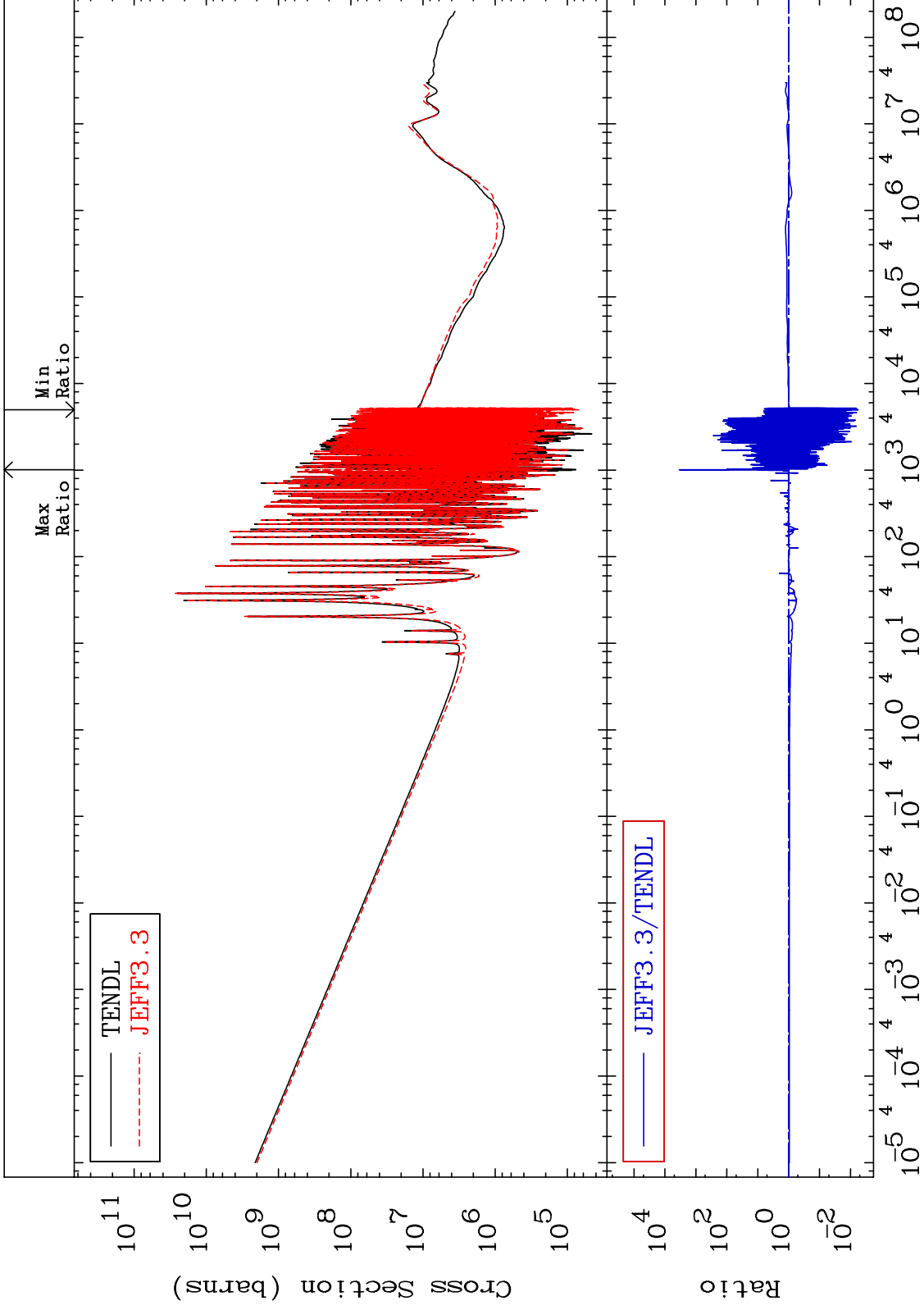
Incident Energy (eV)

53-I -127

MAT 5325

Total photon (eV-barns)  
Cross Section

53-I -127  
-99.44 To 9999. %



57

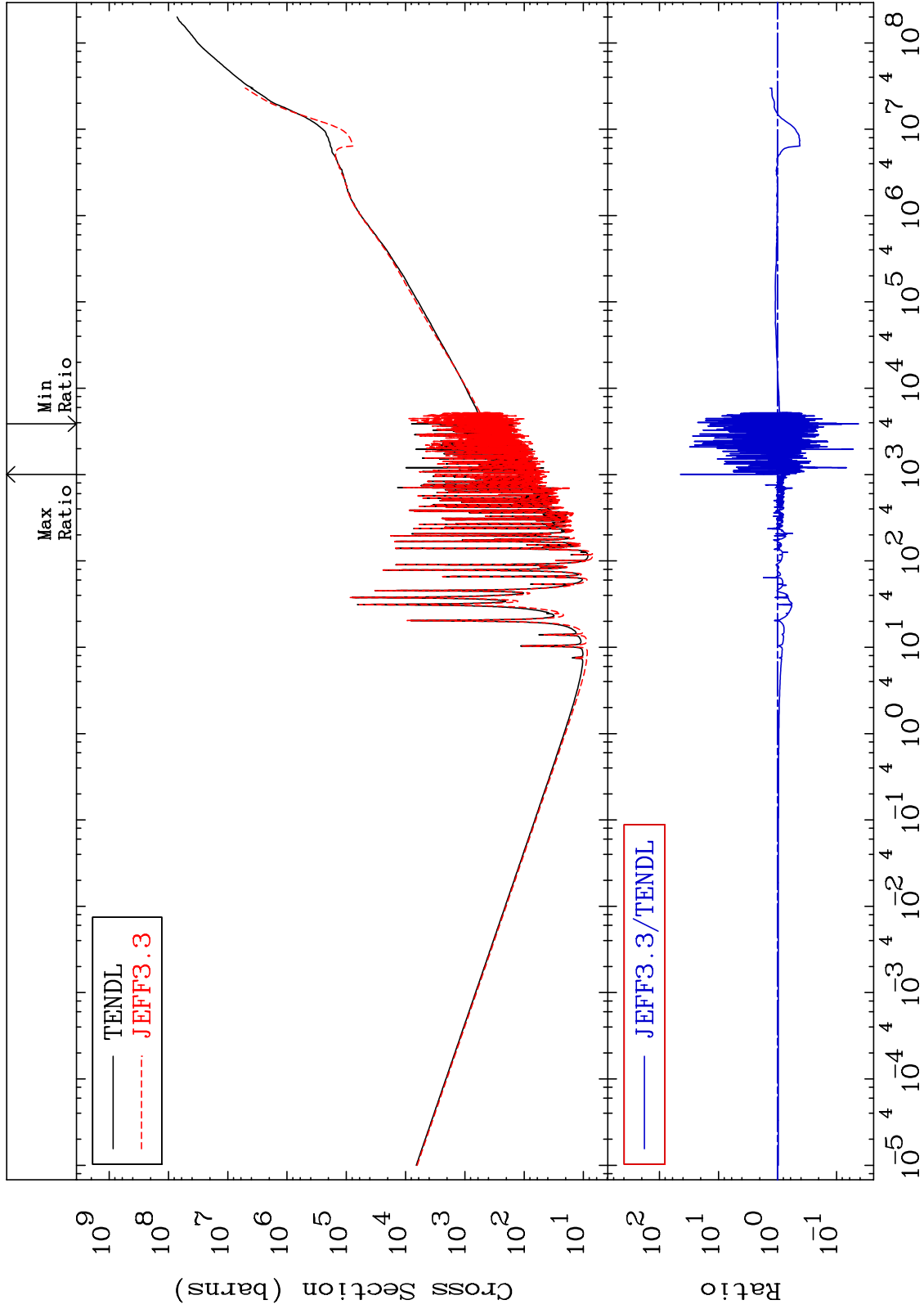
Incident Energy (eV)

53-I -127

MAT 5325

Total kinematic kerma (high limit)  
Cross Section

53-I -127  
-95.74 To 4391. %



58

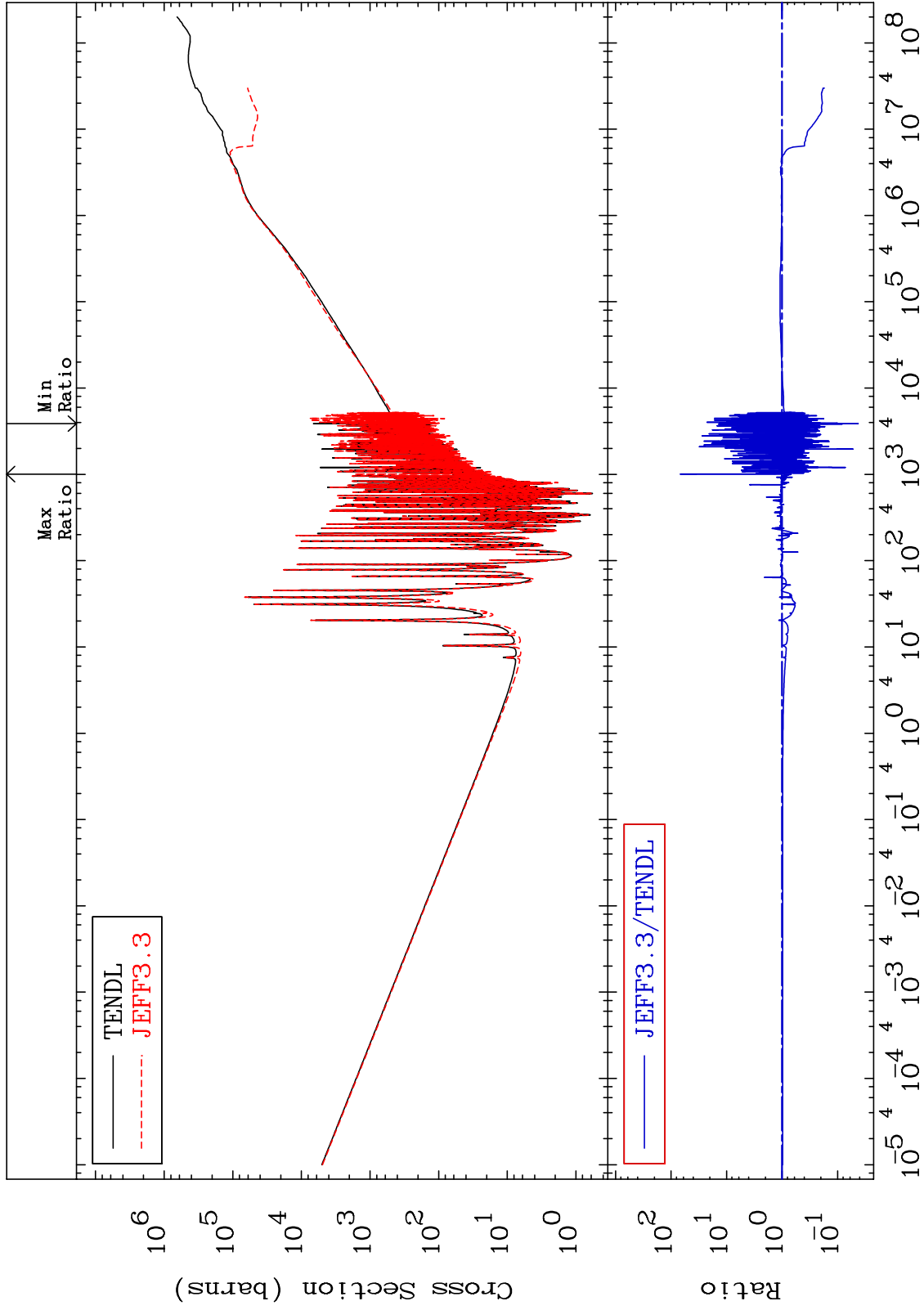
Incident Energy (eV)

53-I -127

MAT 5325

Dpa total (eV-barns)  
Cross Section

53-I -127  
-95.77 To 6794. %



59

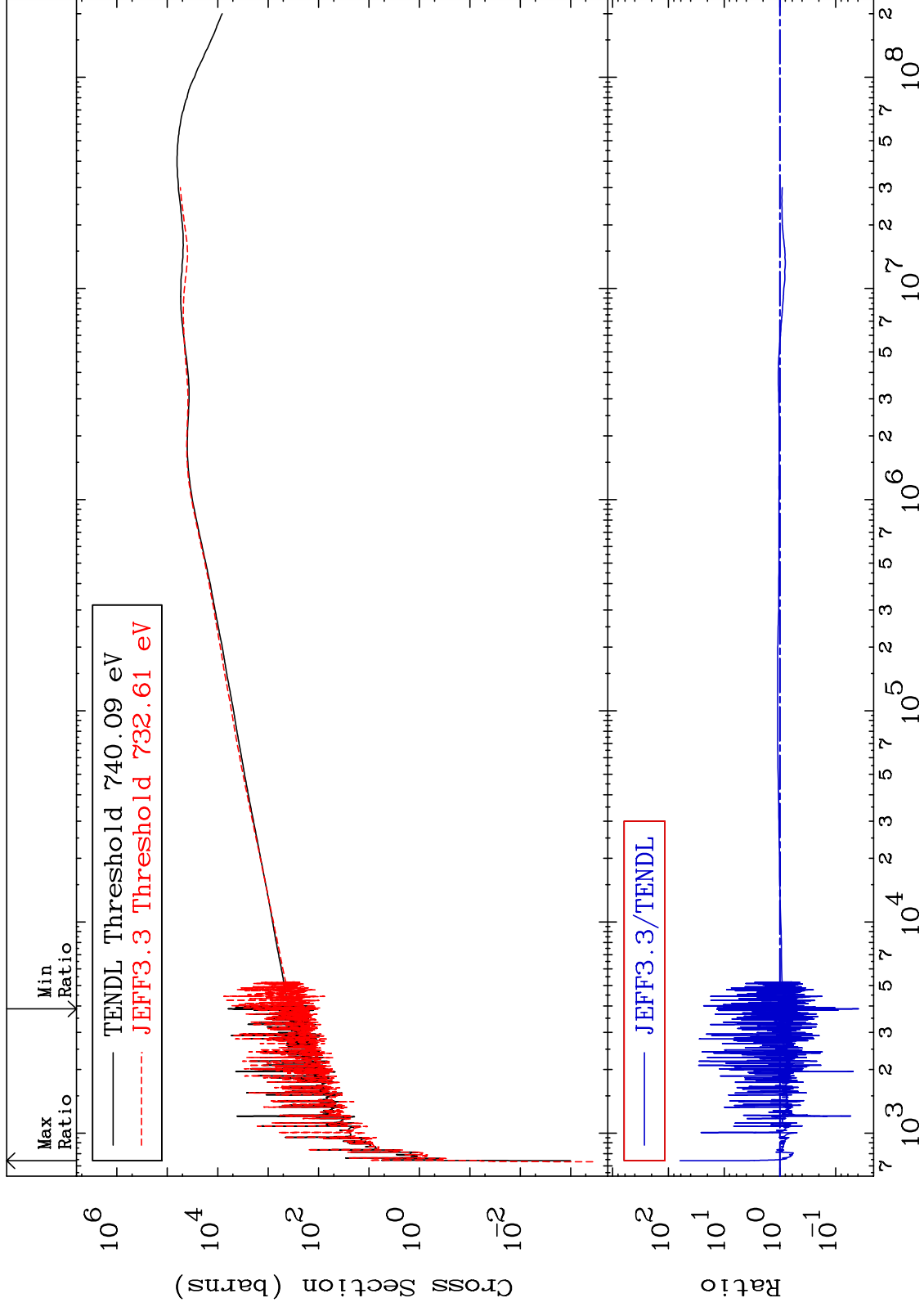
Incident Energy (eV)

53-I -127

MAT 5325

Dpa elastic (mt2)  
Cross Section

53-I -127  
-96.10 To 6080. %



60

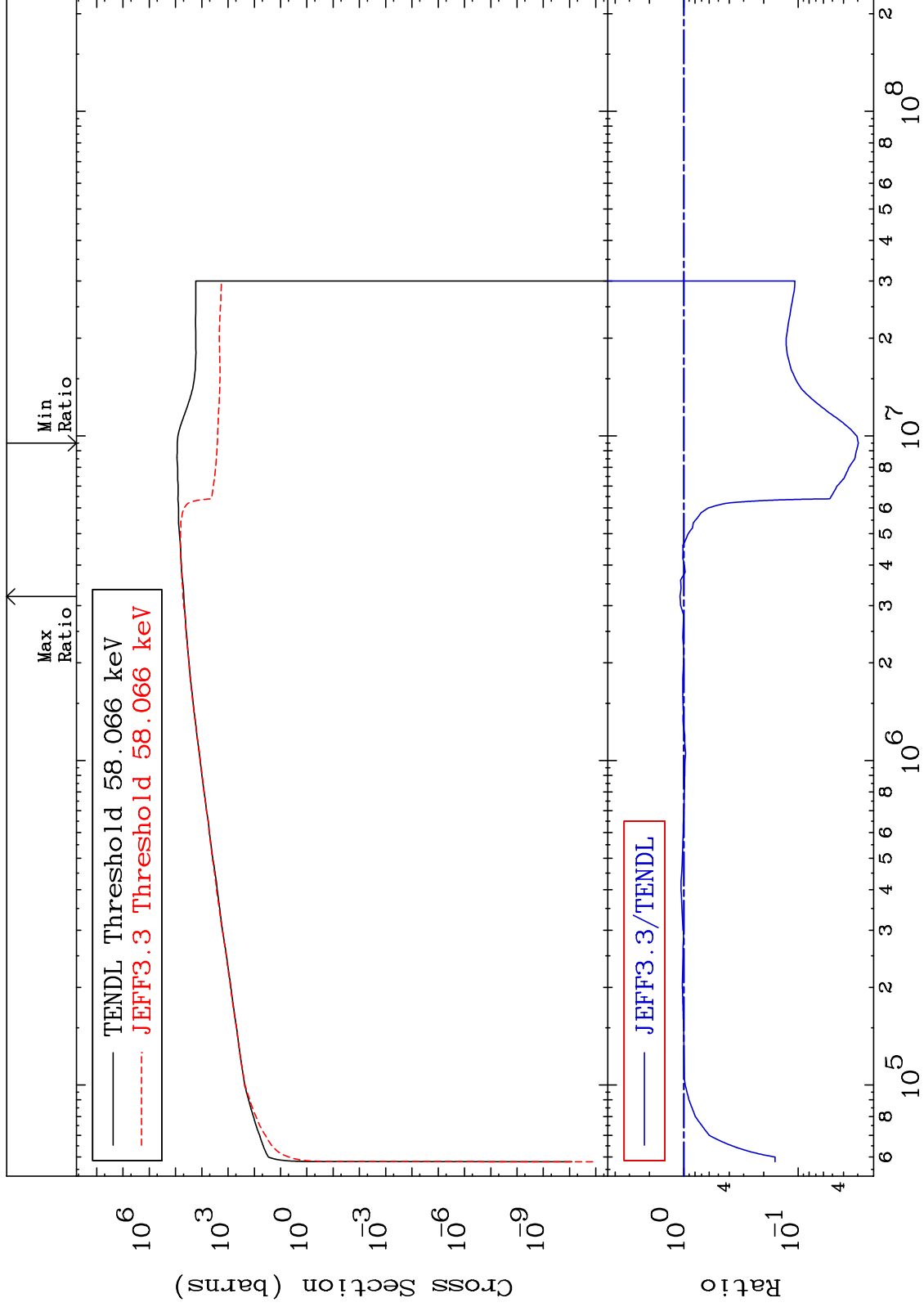
Incident Energy (eV)

53-I -127

MAT 5325

Dpa inelastic (mt51-91)  
Cross Section

53-I -127  
-97.04 To 8.119 %



61

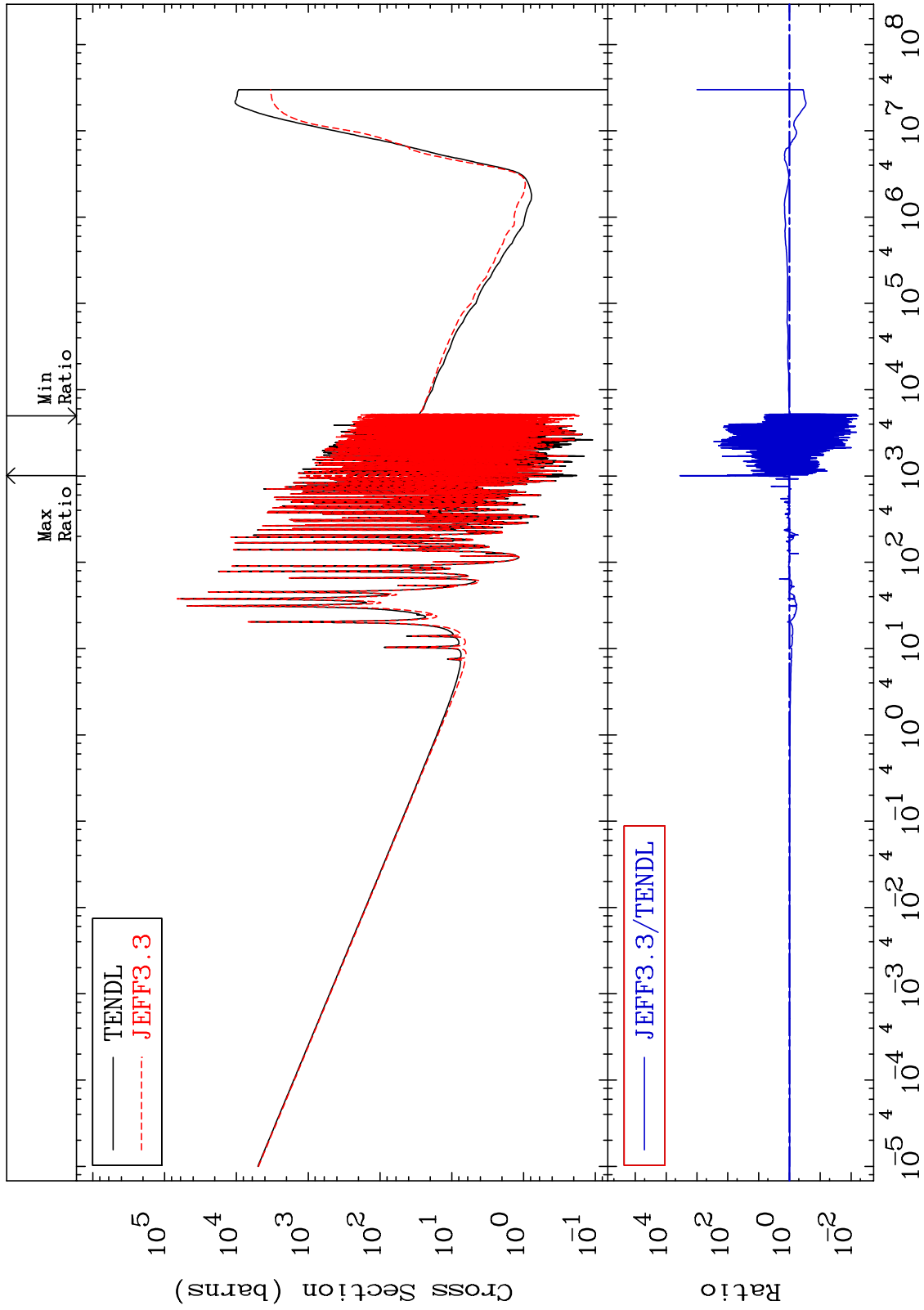
Incident Energy (eV)

53-I -127

MAT 5325

Dpa disappearance (mt102 -120)  
Cross Section

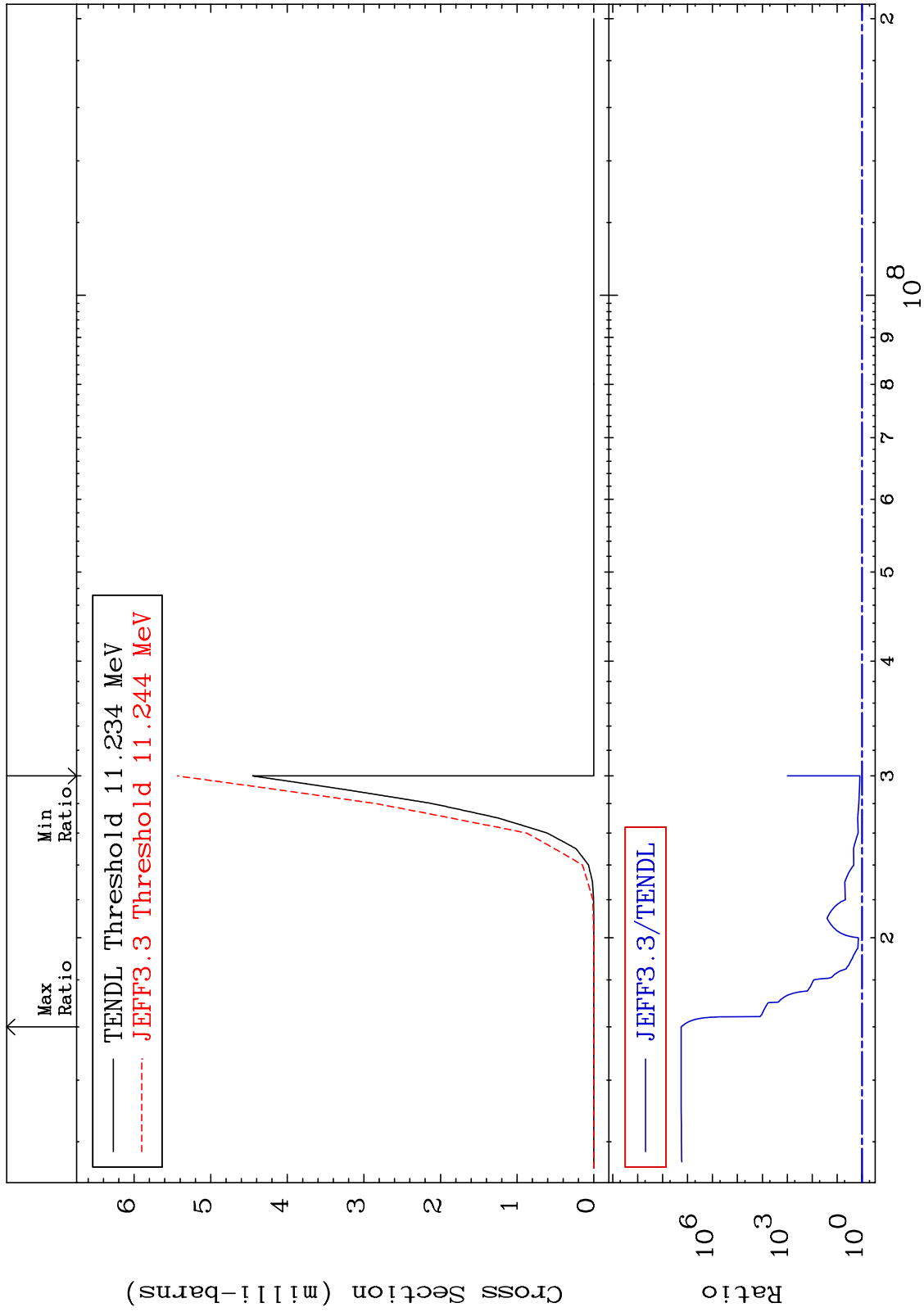
53-I -127  
-99.42 To 9999. %

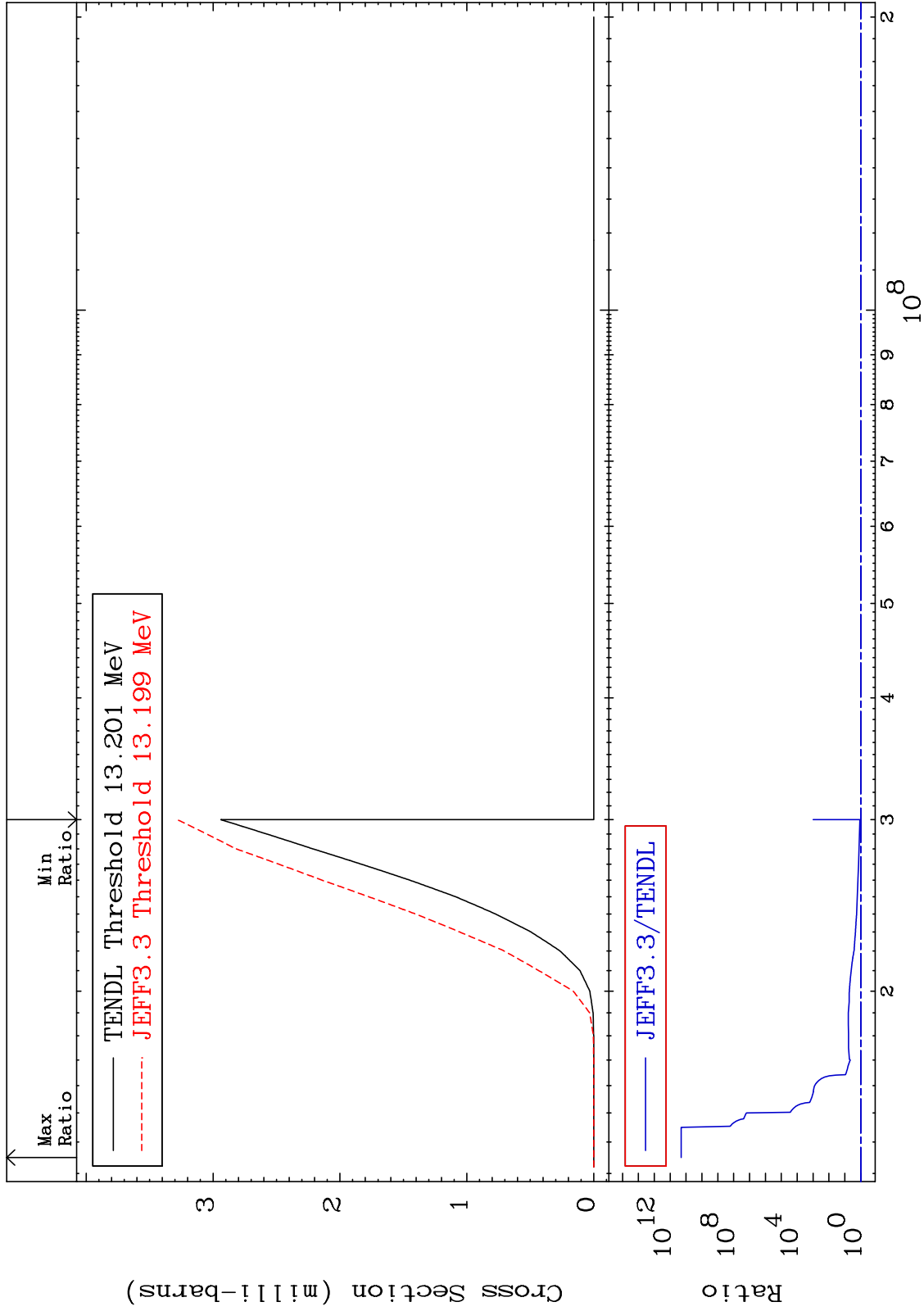


62

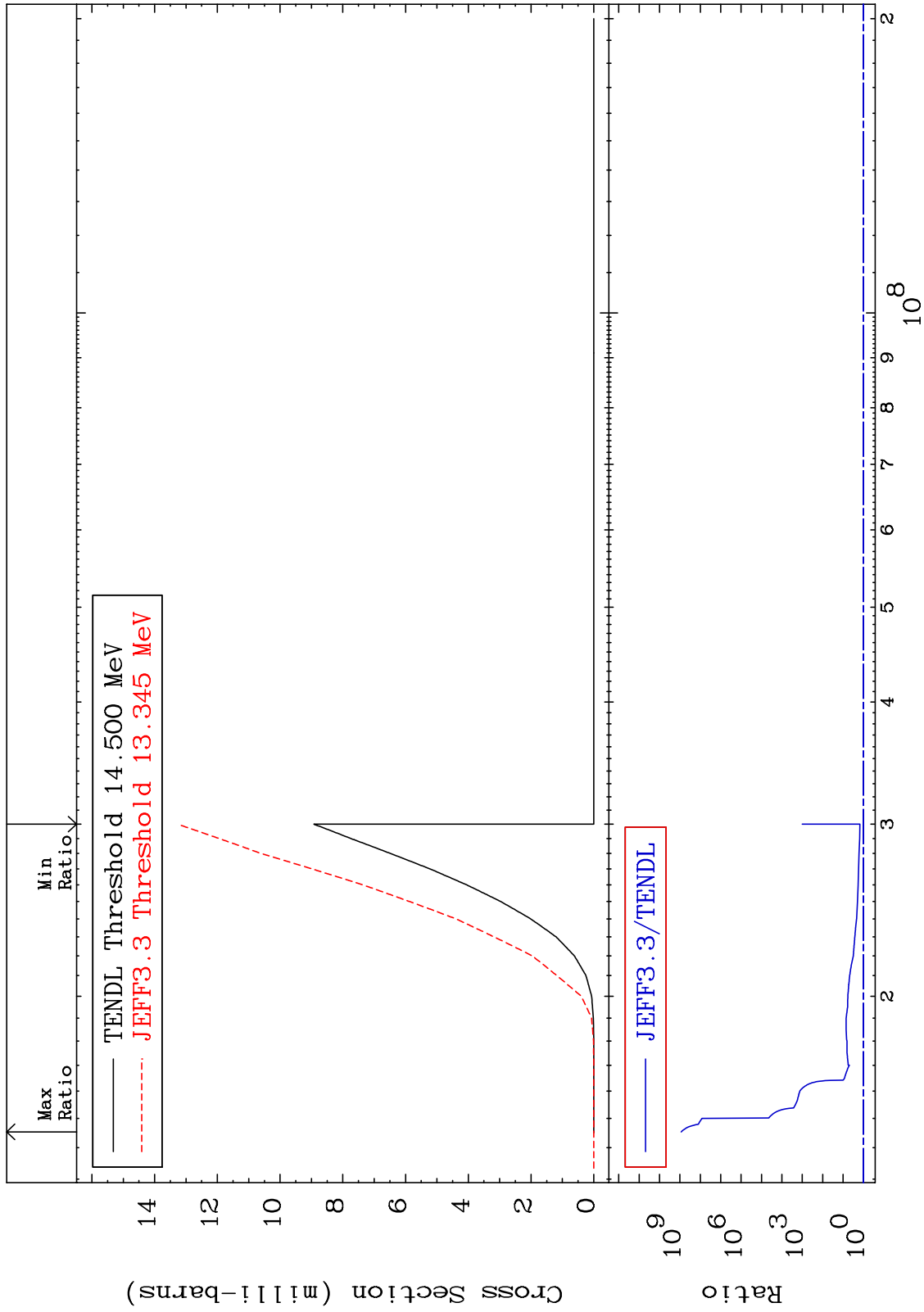
Incident Energy (eV)

53-I -127

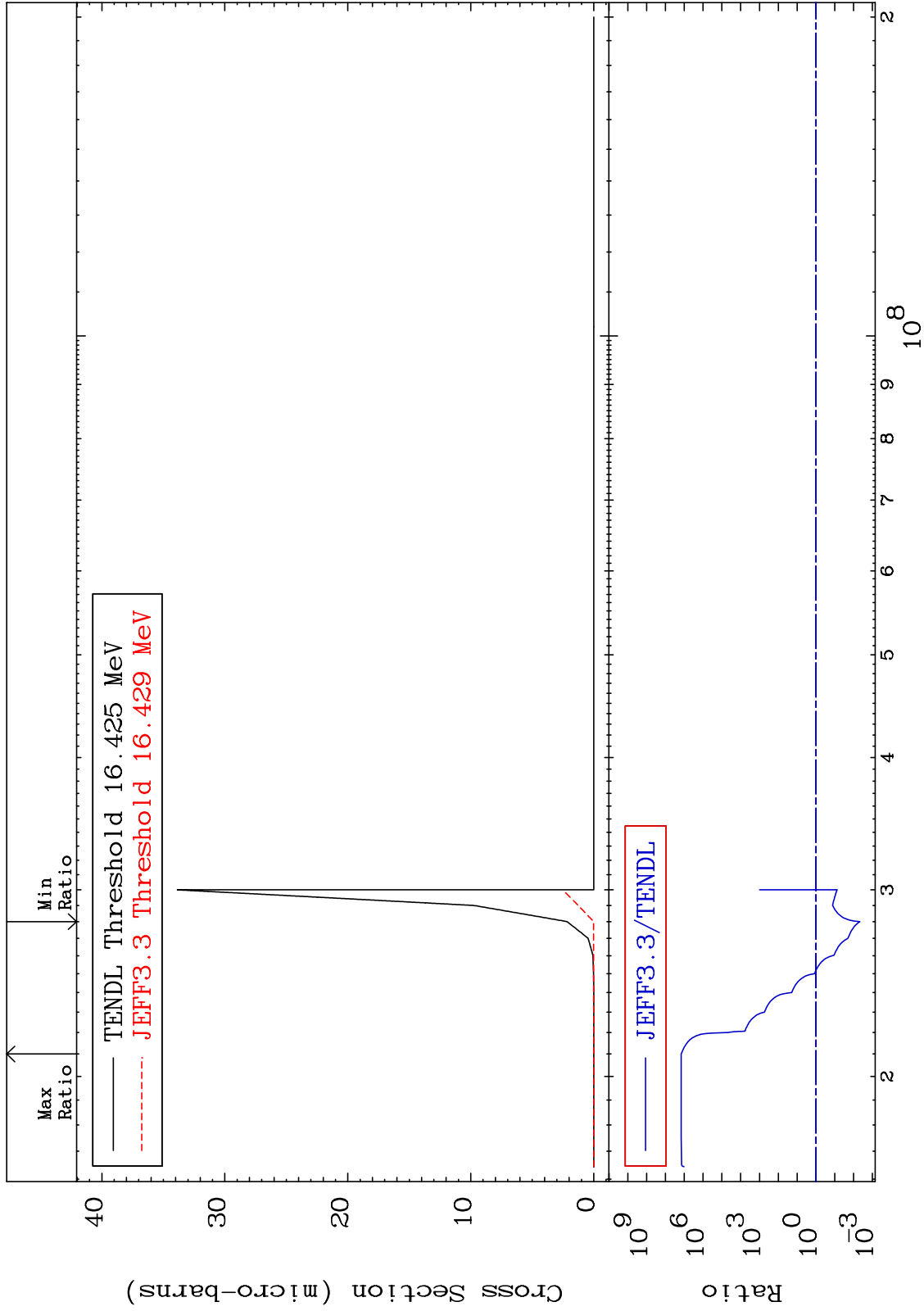




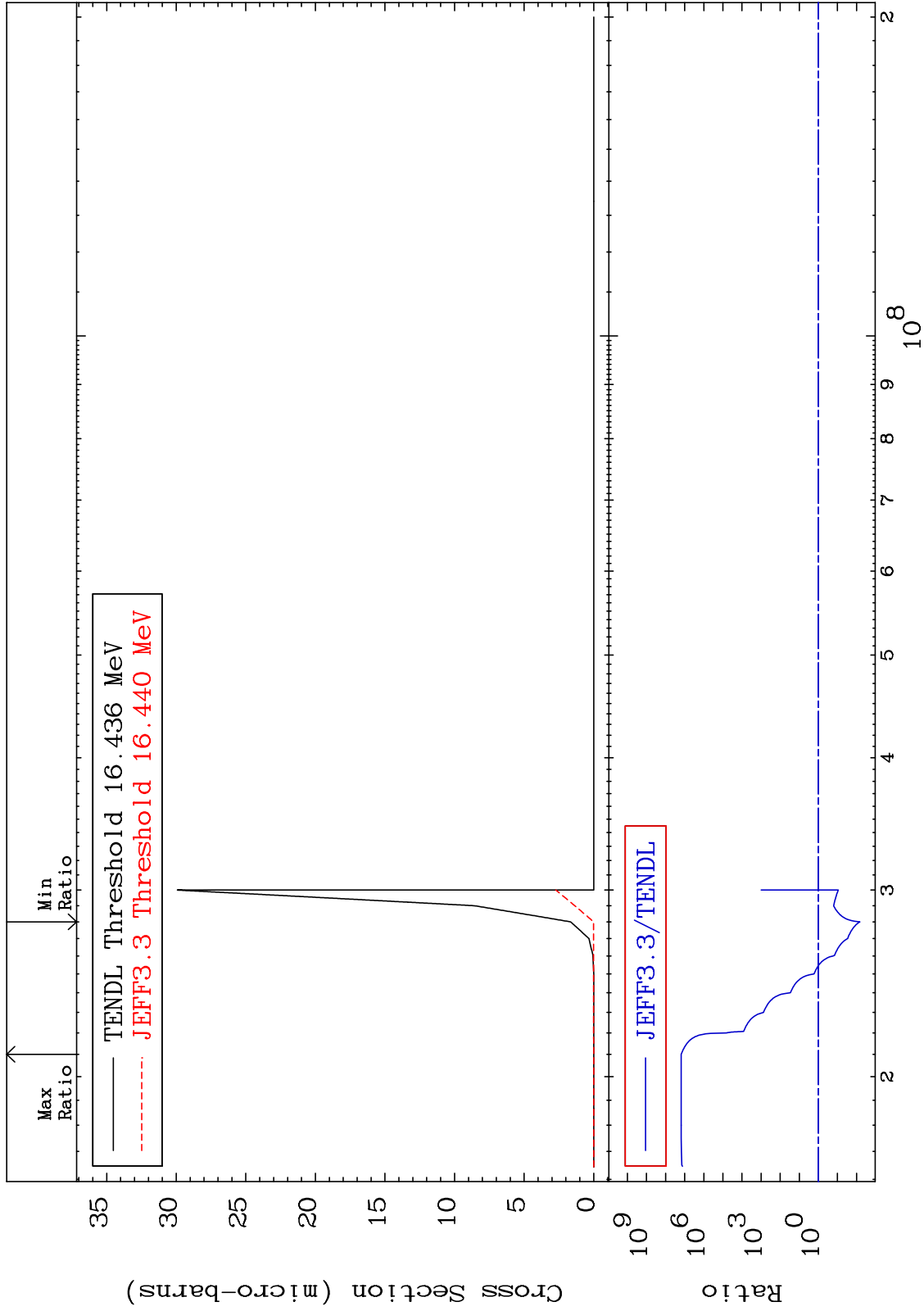
Radionuclide Production Cross Section 48.73 To 9999. %



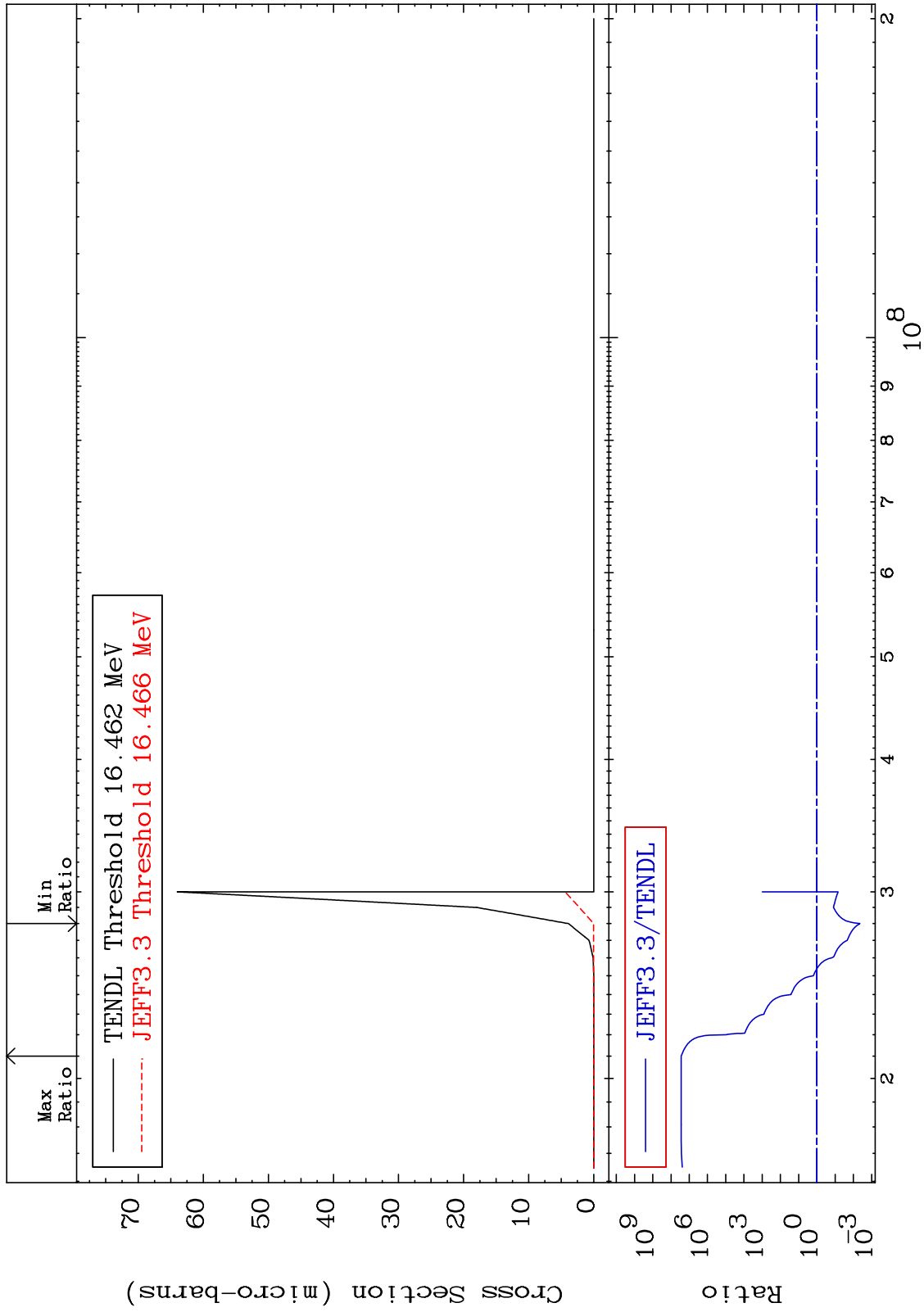
Radionuclide Production Cross Section -99.54 To 9999. %

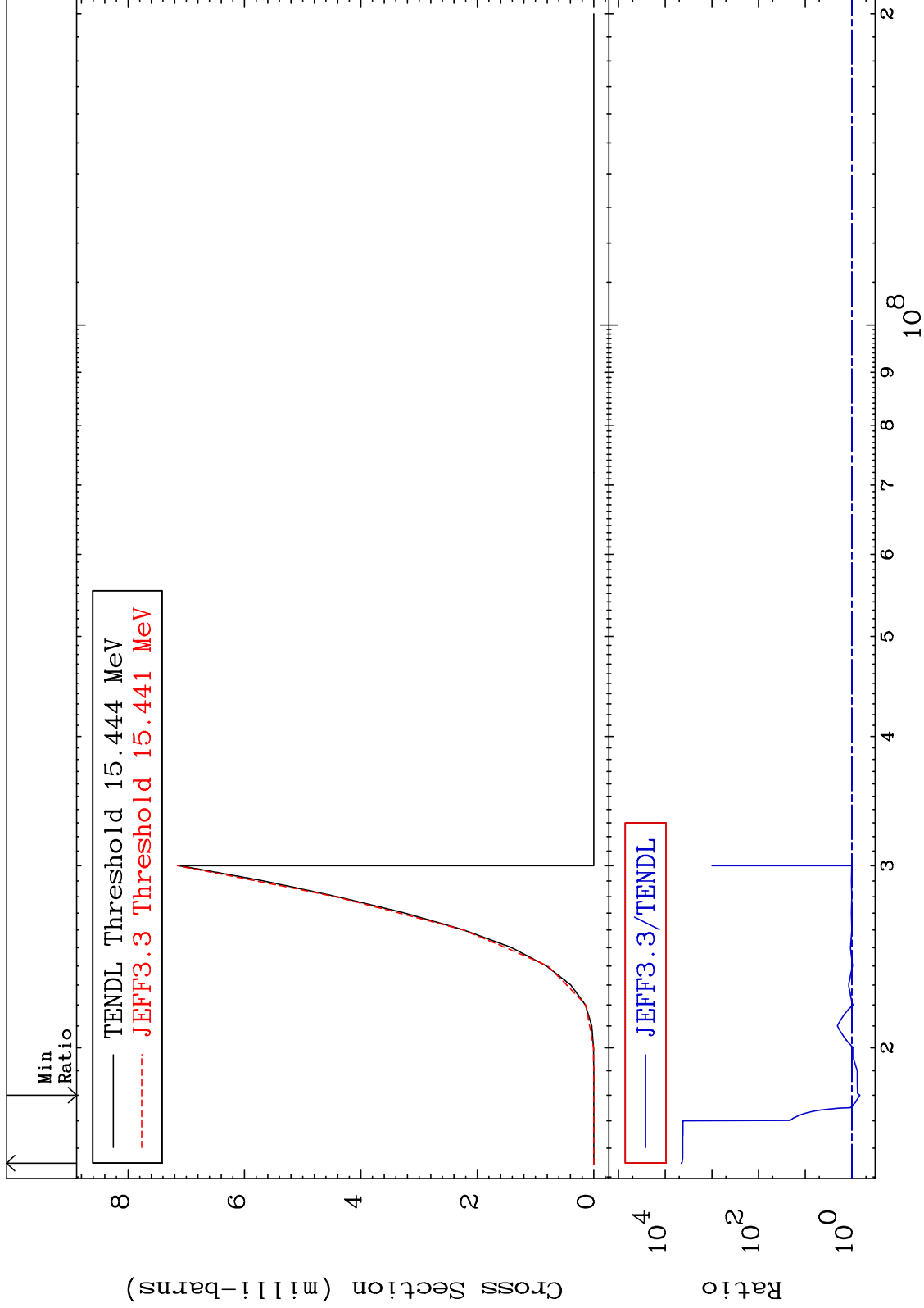


Radionuclide Production Cross Section -99.33 To 9999. %



Radionuclide Production Cross Section -99.56 To 9999. %



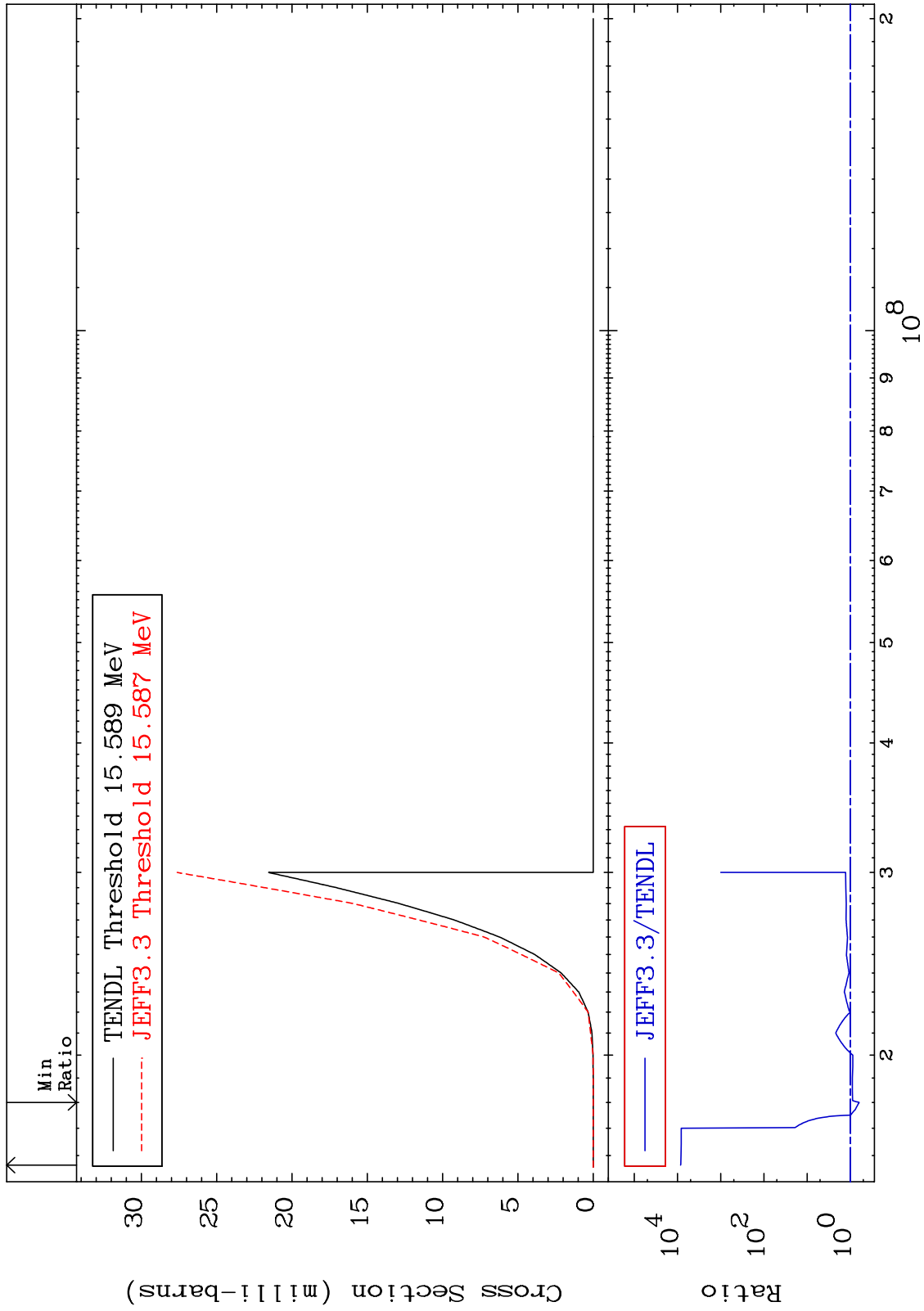


MAT 5325

(n,2n) p:52-Te-125m2

53-I -127

Radionuclide Production Cross Section -37.59 To 9999. %



70

Incident Energy (eV)

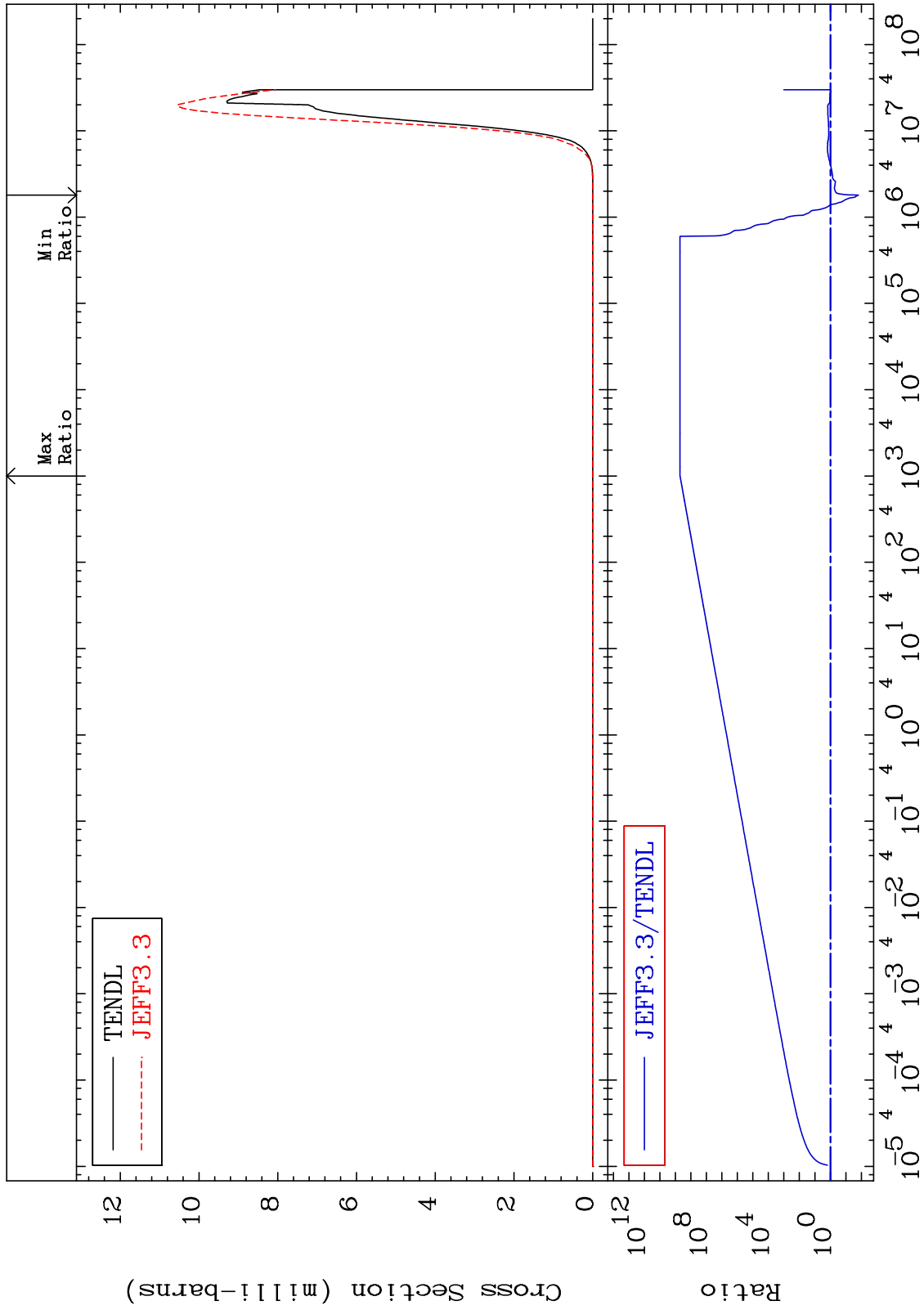
53-I -127

MAT 5325

53-I -127

(n,p):52-Te-127g

Radionuclide Production Cross Section -98.45 To 9999. %



71

Incident Energy (eV)

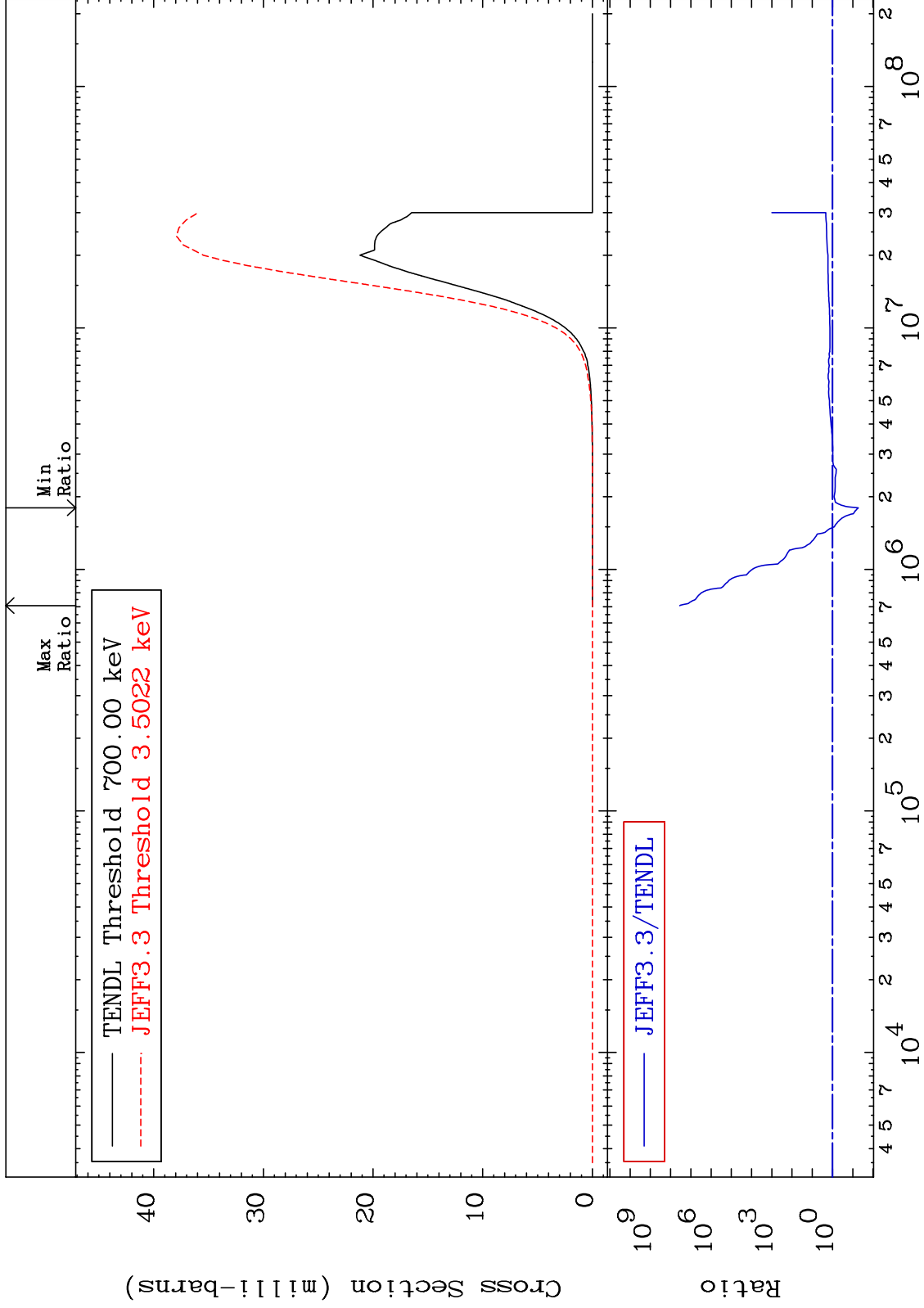
53-I -127

MAT 5325

(n, p) : 52-Te-127m2

53-I -127

Radionuclide Production Cross Section -94.69 To 9999. %

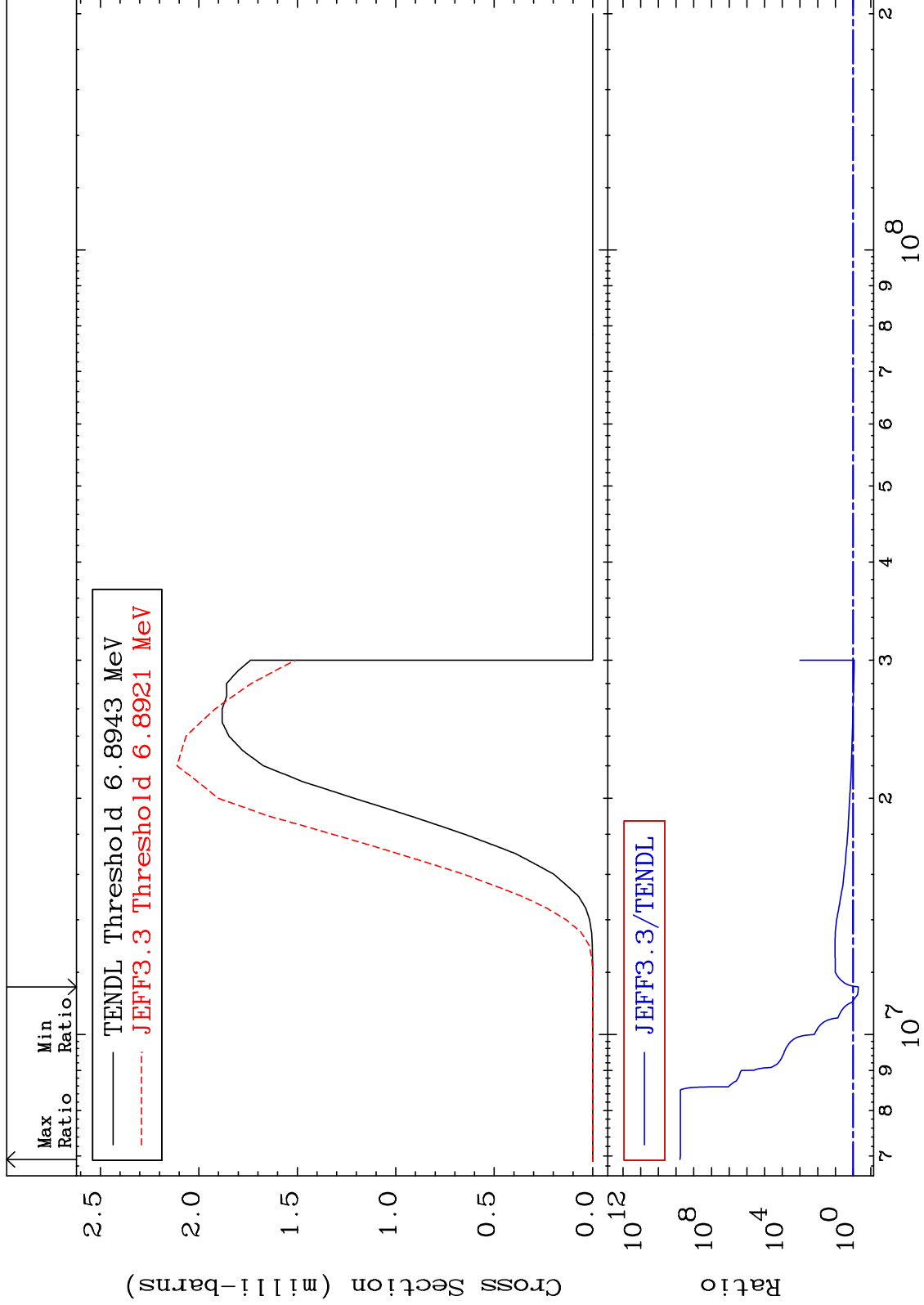


72

Incident Energy (eV)

53-I -127

Radionuclide Production Cross Section -49.78 To 9999. %

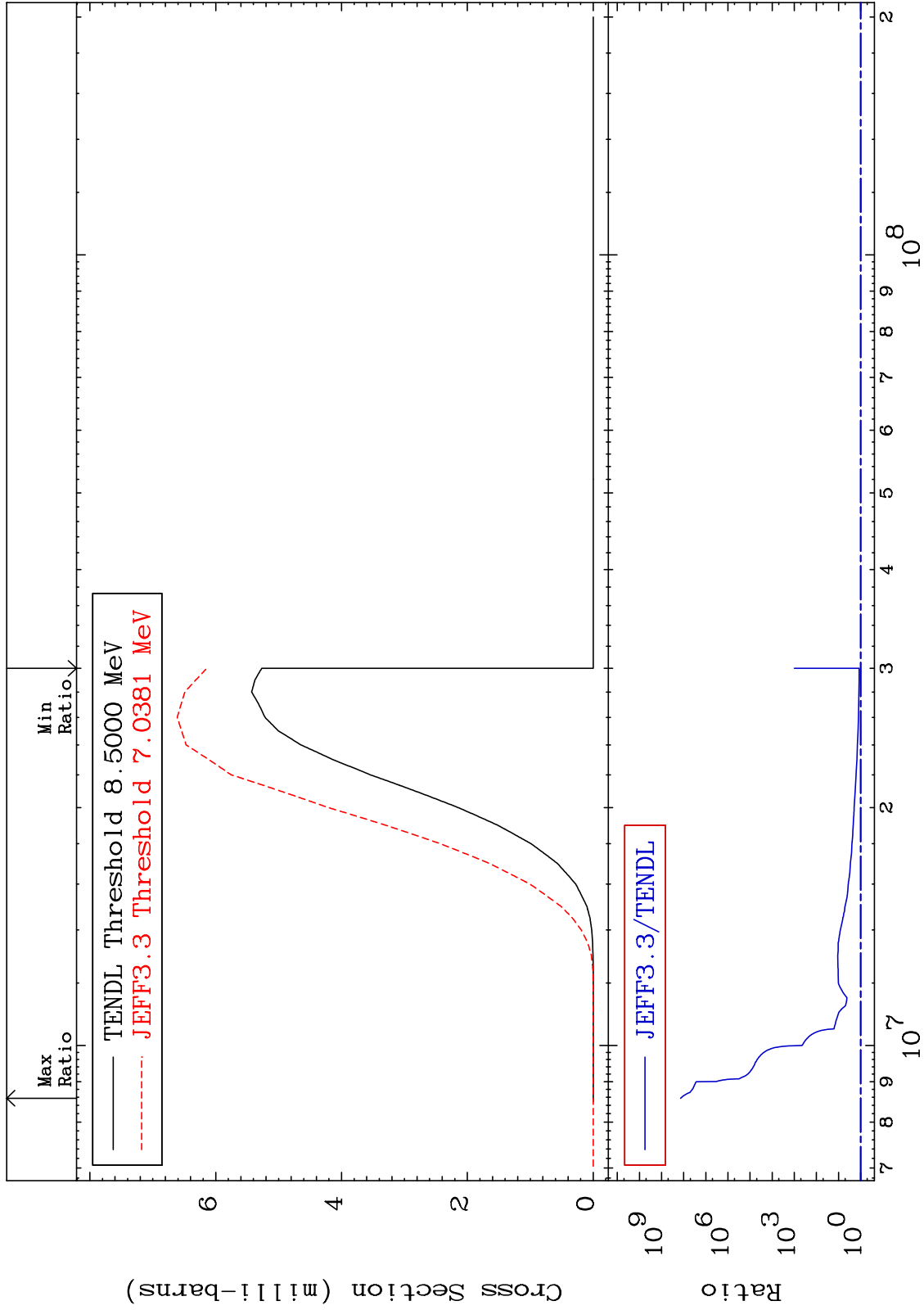


MAT 5325

(n, t):52-Te-125m2

53-I -127

Radionuclide Production Cross Section 16.56 To 9999. %



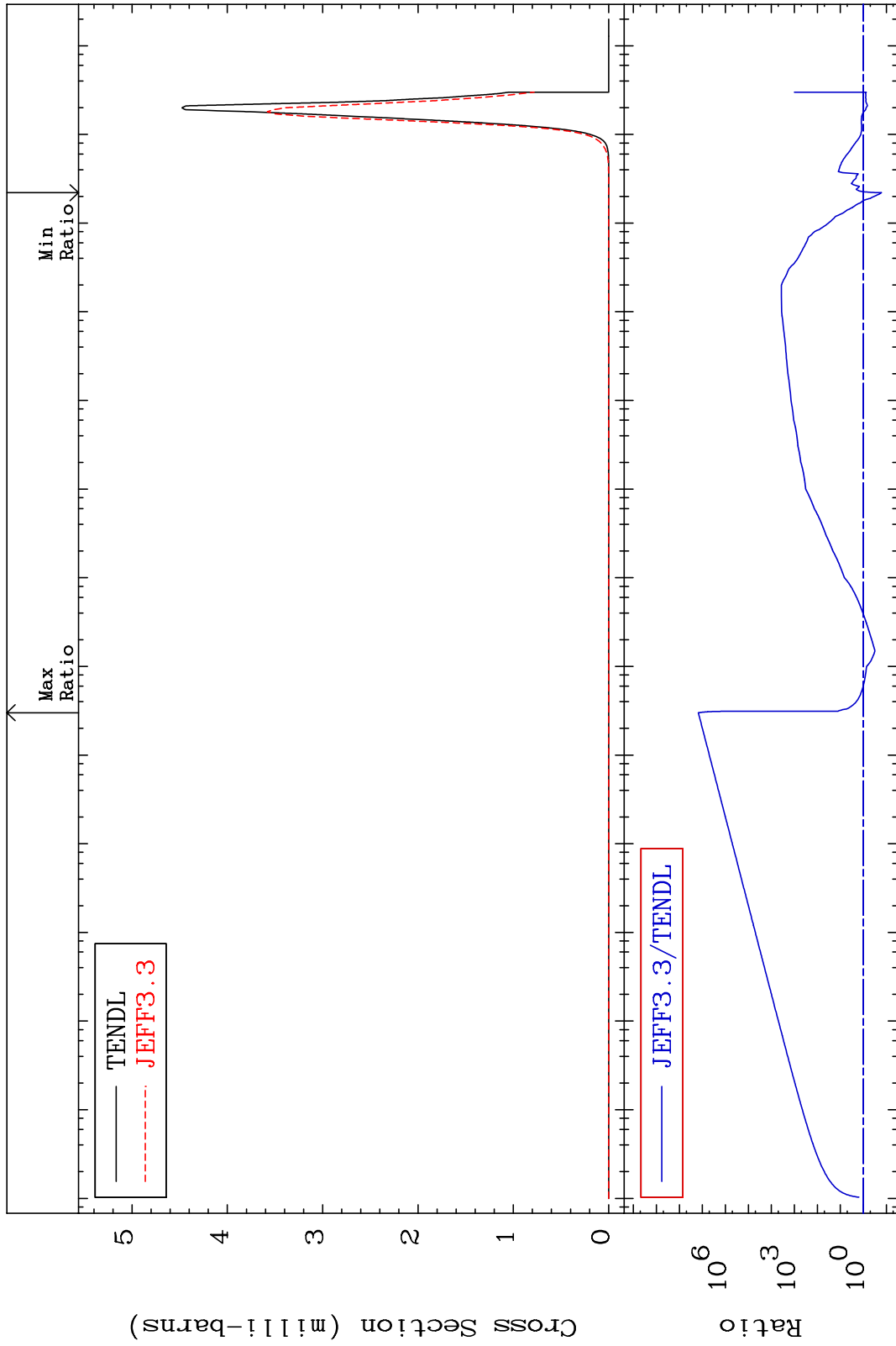
MAT 5325

(n,  $\alpha$ ):51-Sb-124g

53-I -127

Radionuclide Production Cross Section

-83.87 To 9999. %



Incident Energy (eV)

53-I -127

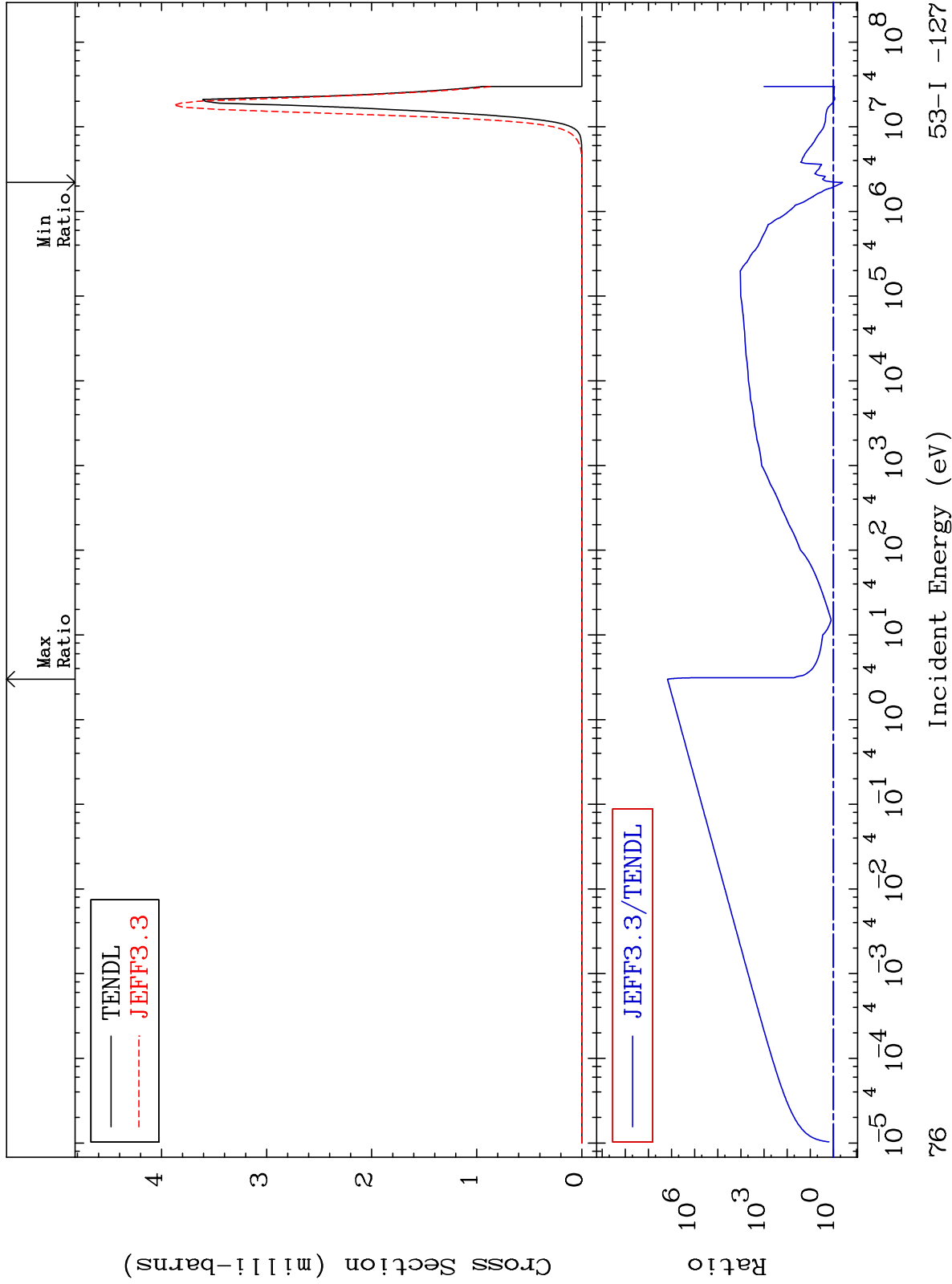
75

MAT 5325

(n,  $\alpha$ ):51-Sb-124m1

53-I -127

Radionuclide Production Cross Section -59.92 To 9999. %



76

Incident Energy (eV)

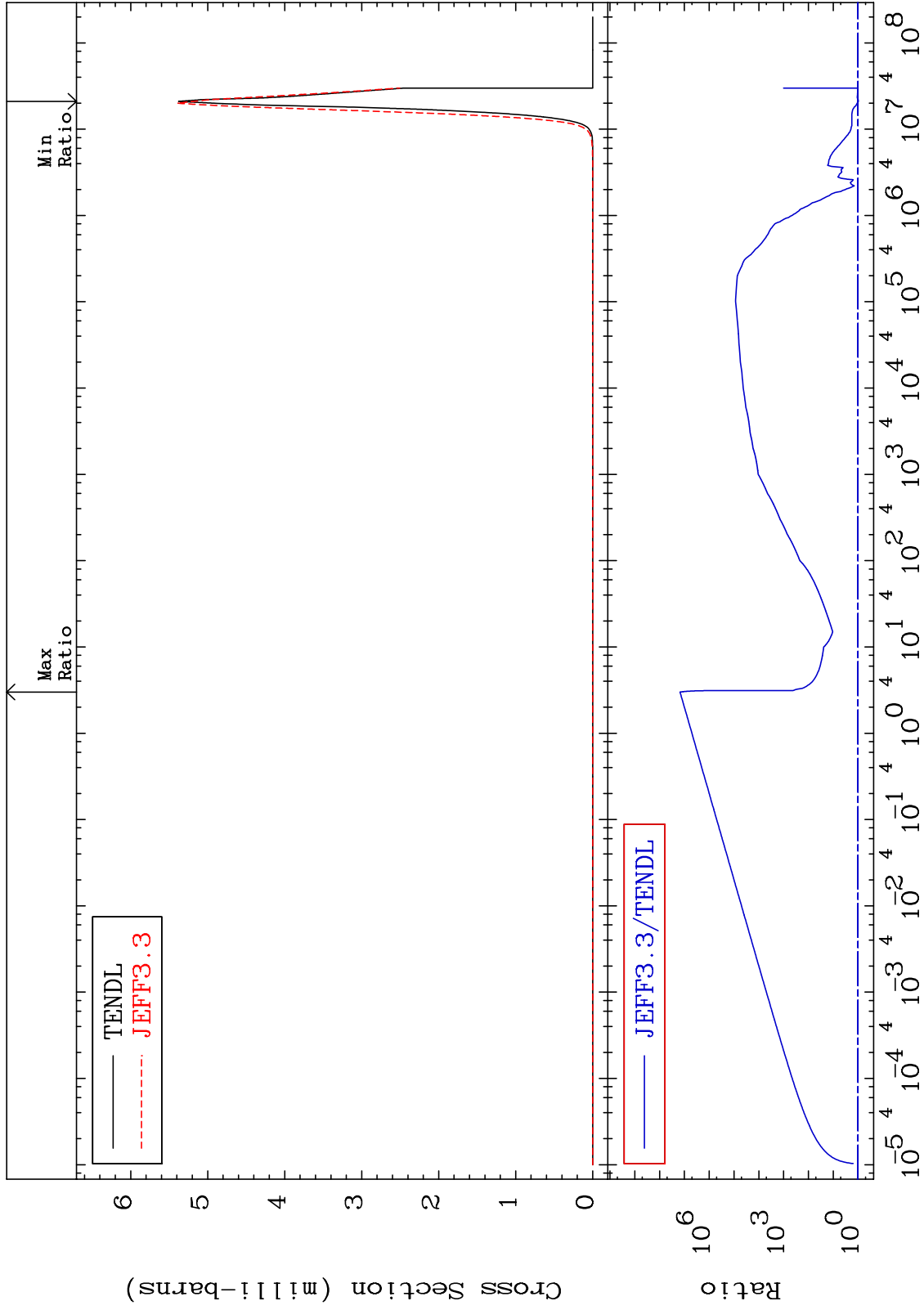
53-I -127

MAT 5325

(n,  $\alpha$ ):51-Sb-124m2

53-I -127

Radionuclide Production Cross Section -3.613 To 9999. %



77

Incident Energy (eV)

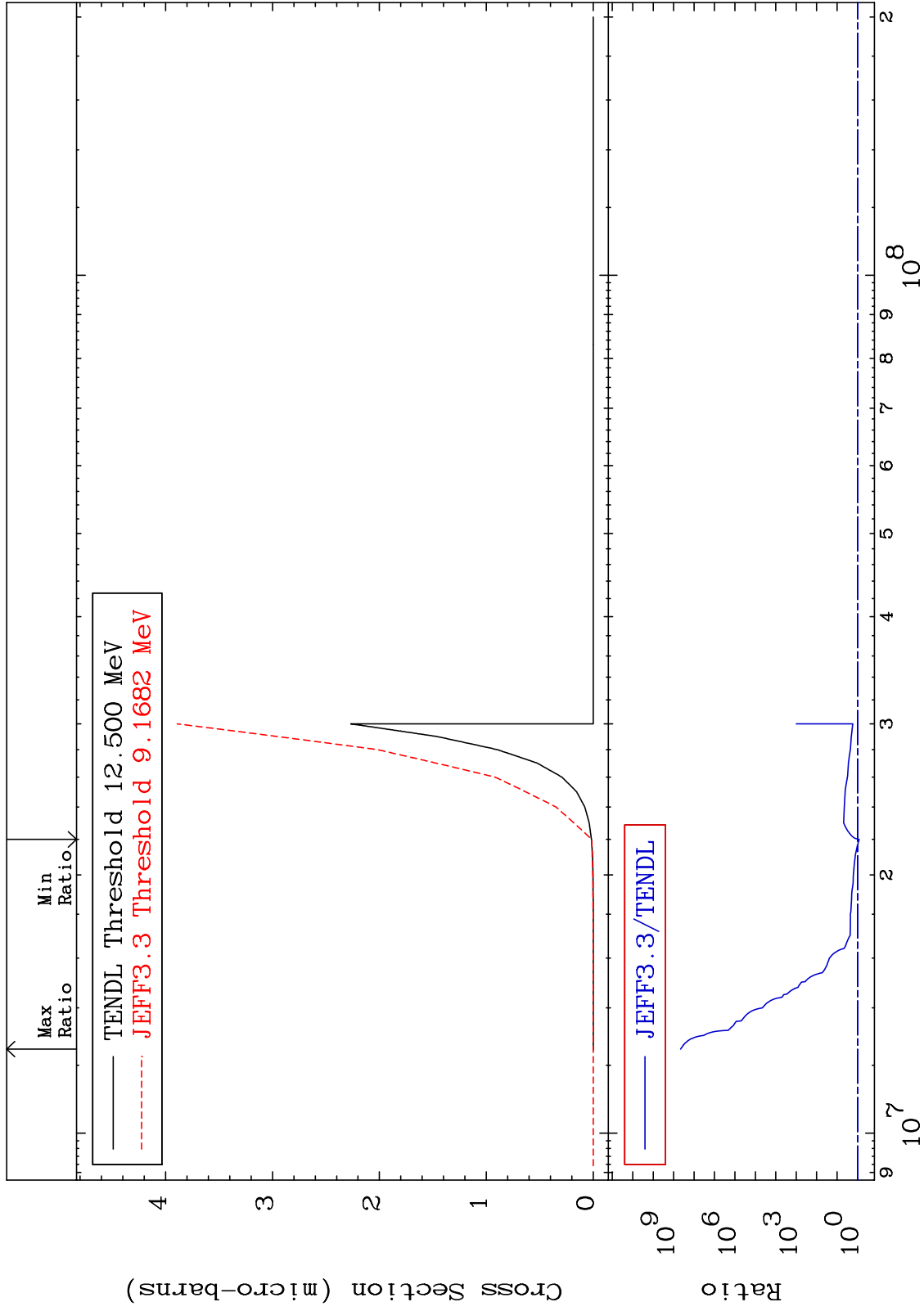
53-I -127

MAT 5325

(n,2p):51-Sb-126g

53-I -127

Radionuclide Production Cross Section -16.85 To 9999. %



53-I -127

Incident Energy (eV)

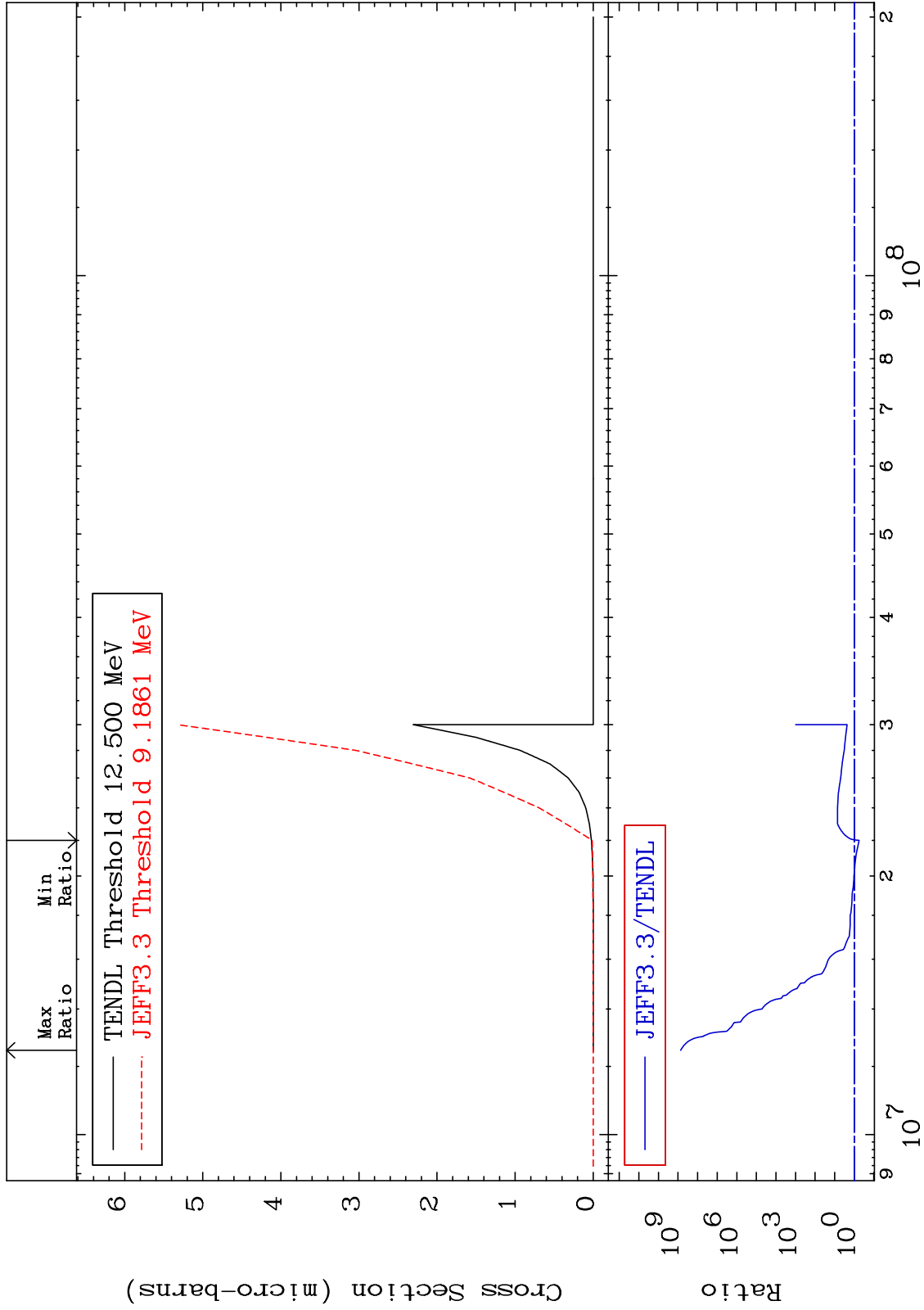
78

MAT 5325

(n,2p):51-Sb-126m1

53-I -127

Radionuclide Production Cross Section -43.95 To 9999. %



79

Incident Energy (eV)

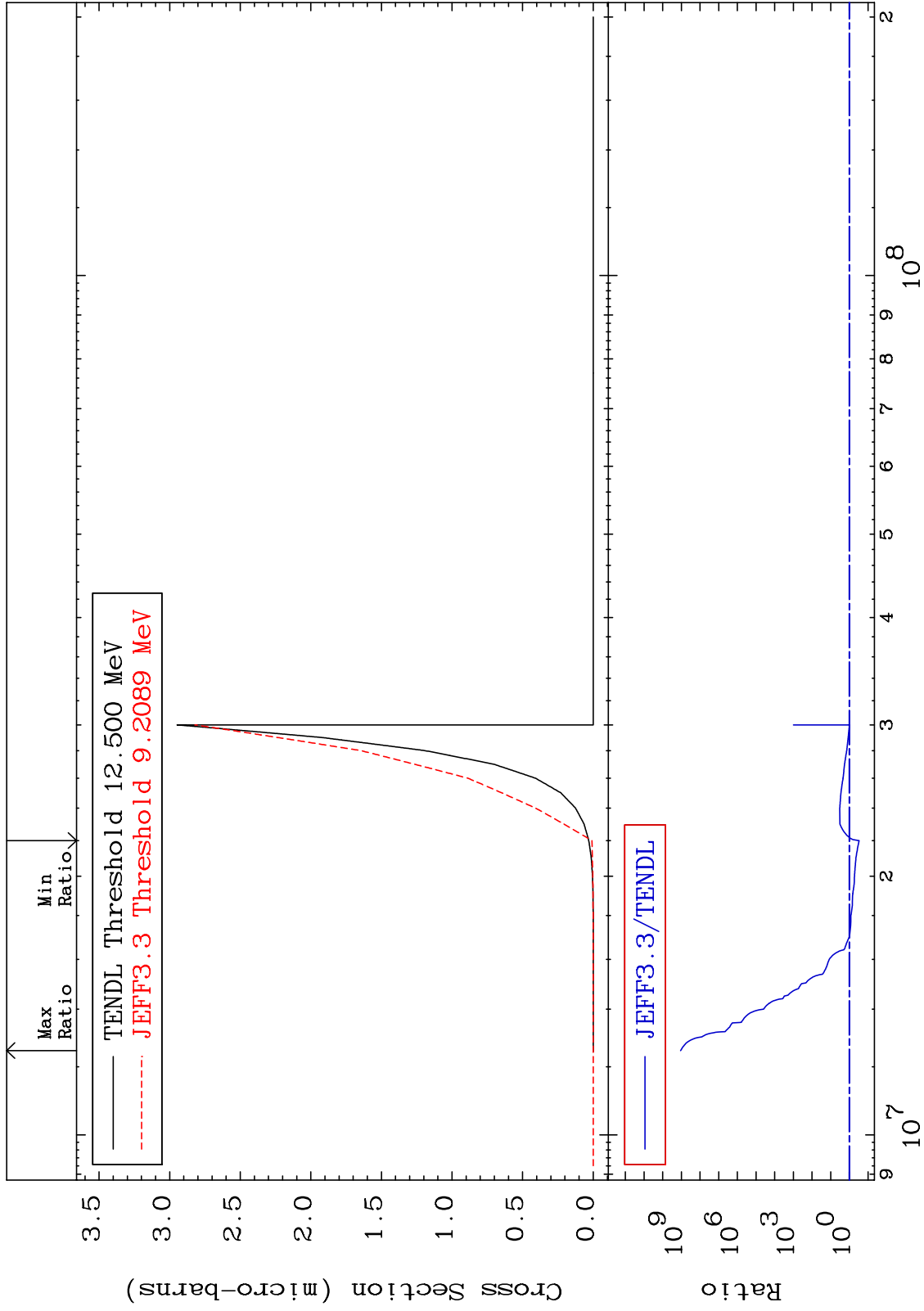
53-I -127

MAT 5325

(n,2p):51-Sb-126m2

53-I -127

Radionuclide Production Cross Section -70.23 To 9999. %



80

Incident Energy (eV)

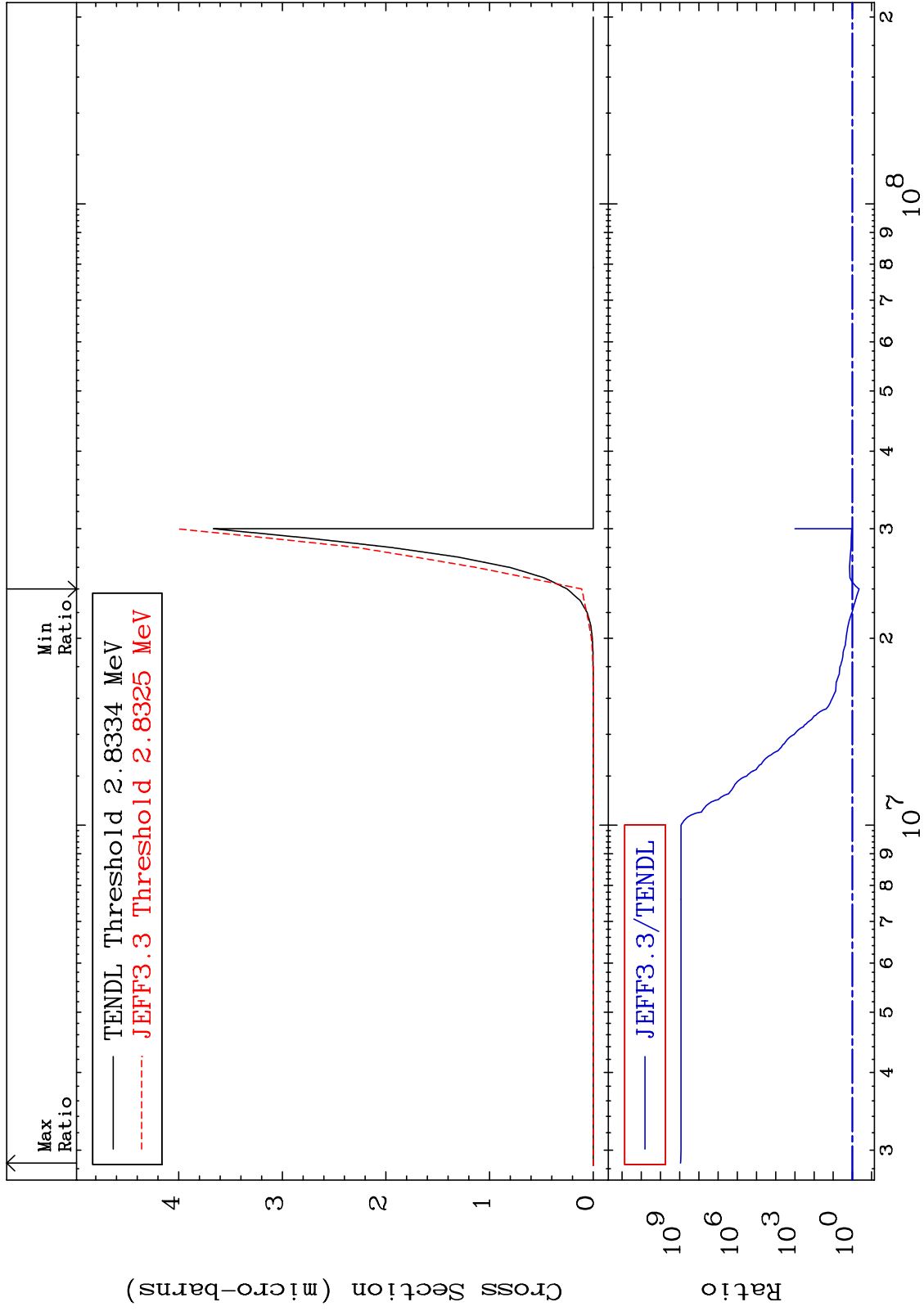
53-I -127

MAT 5325

(n, p)  $\alpha$ :50-Sn-123g

53-I -127

Radionuclide Production Cross Section -55.45 To 9999. %

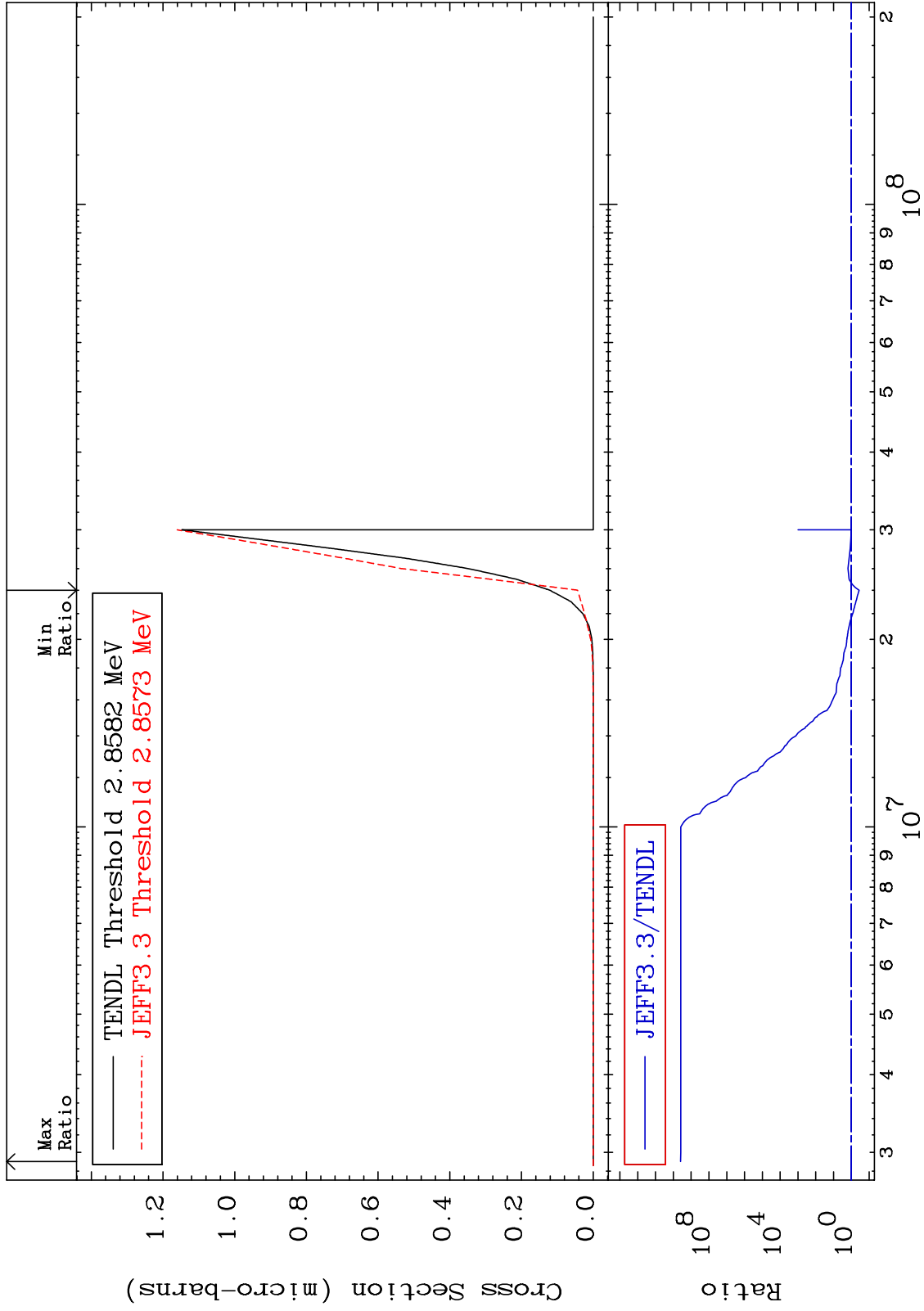


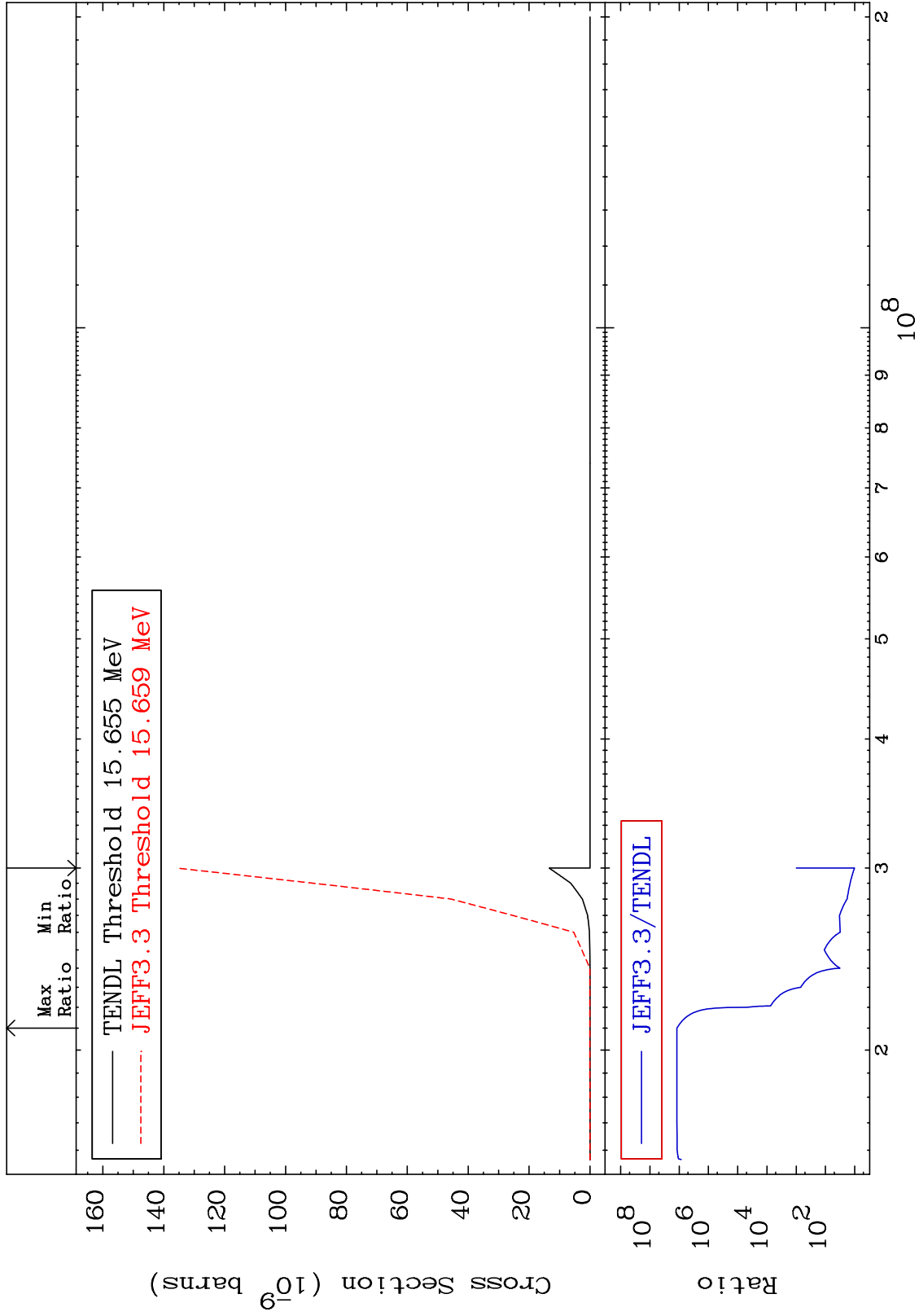
MAT 5325

(n, p)  $\alpha$ :50-Sn-123m1

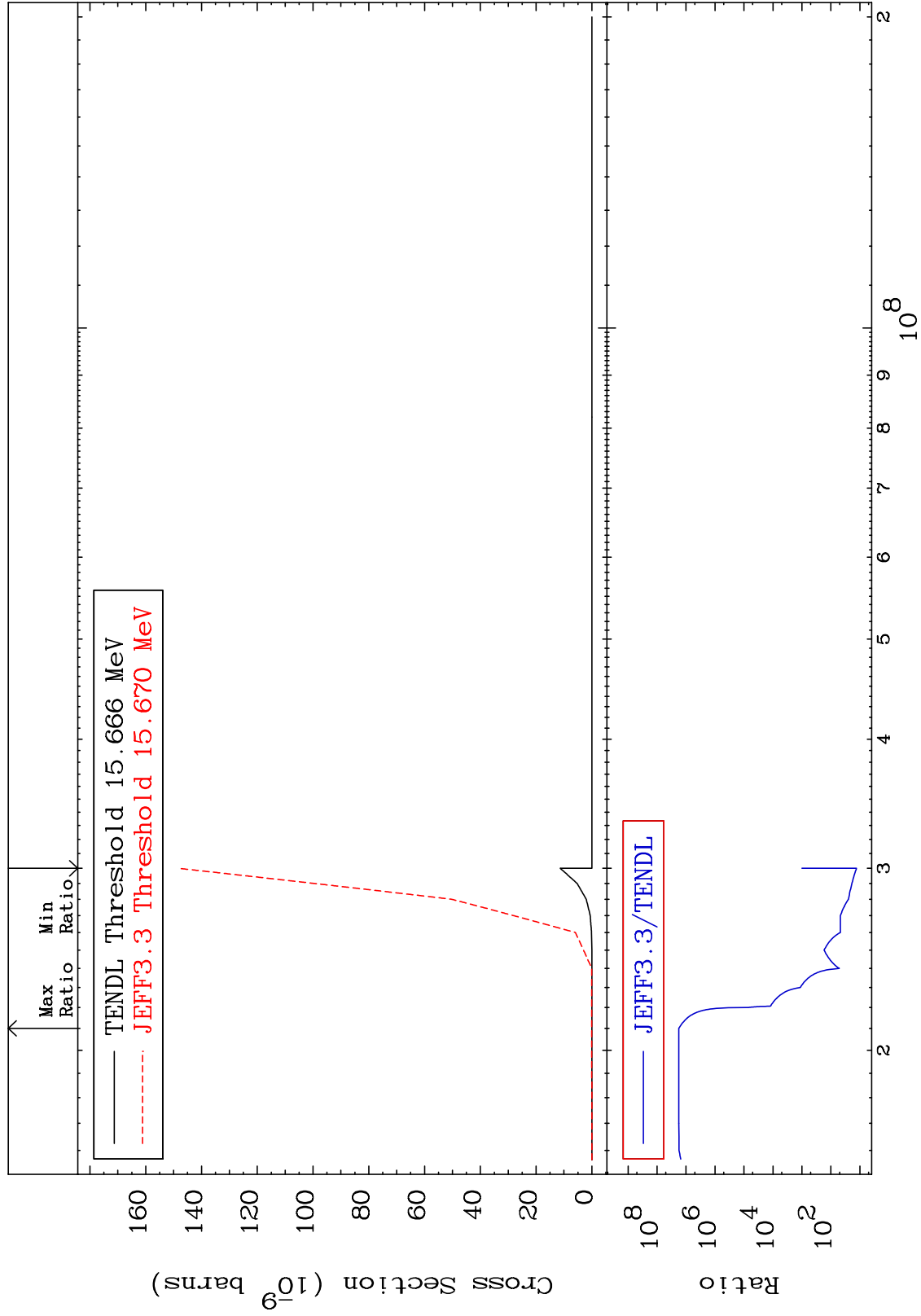
53-I -127

Radionuclide Production Cross Section -63.88 To 9999. %





Radionuclide Production Cross Section 1208. To 9999. %



Radionuclide Production Cross Section 1201. To 9999. %

