

Program Complot
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

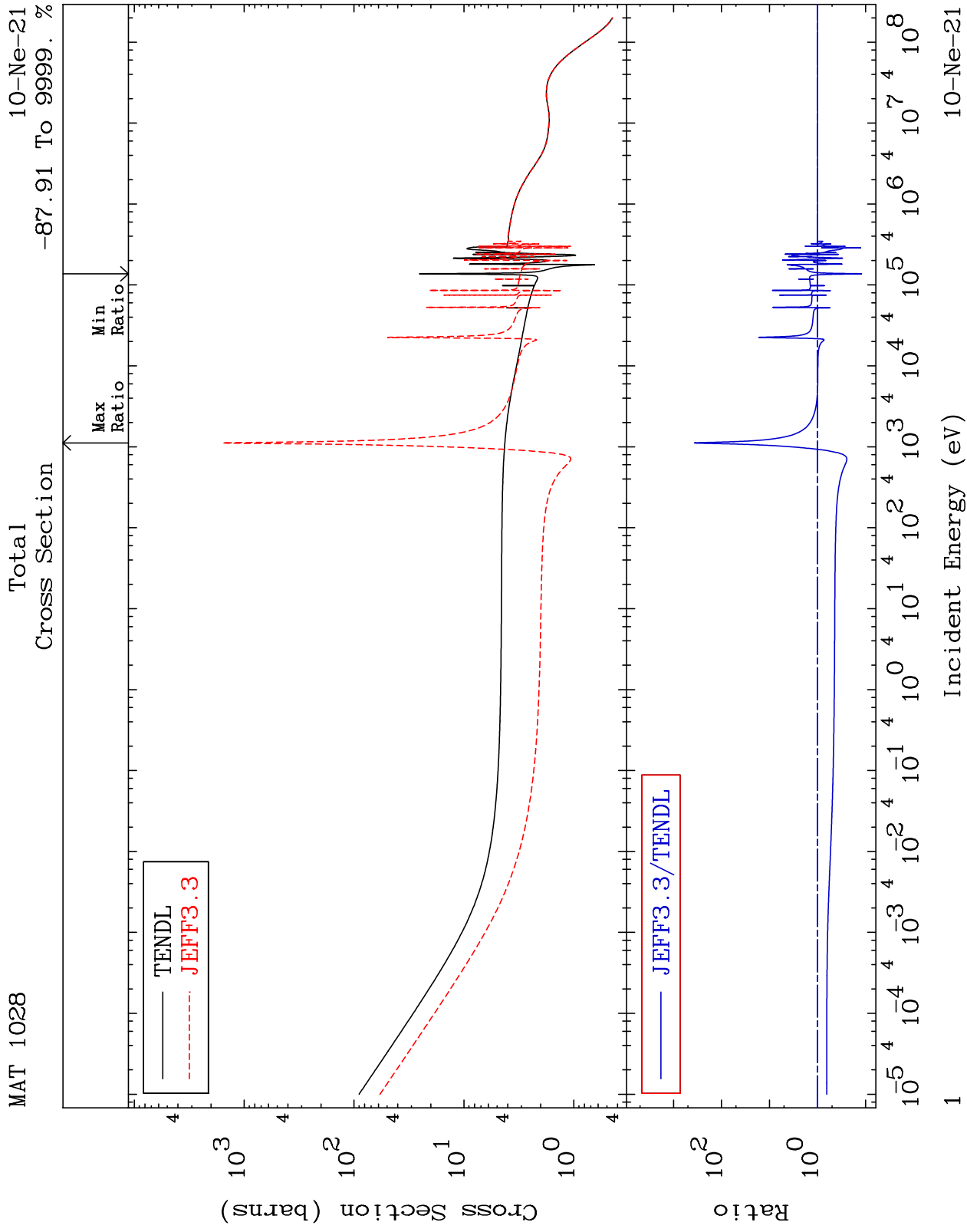
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

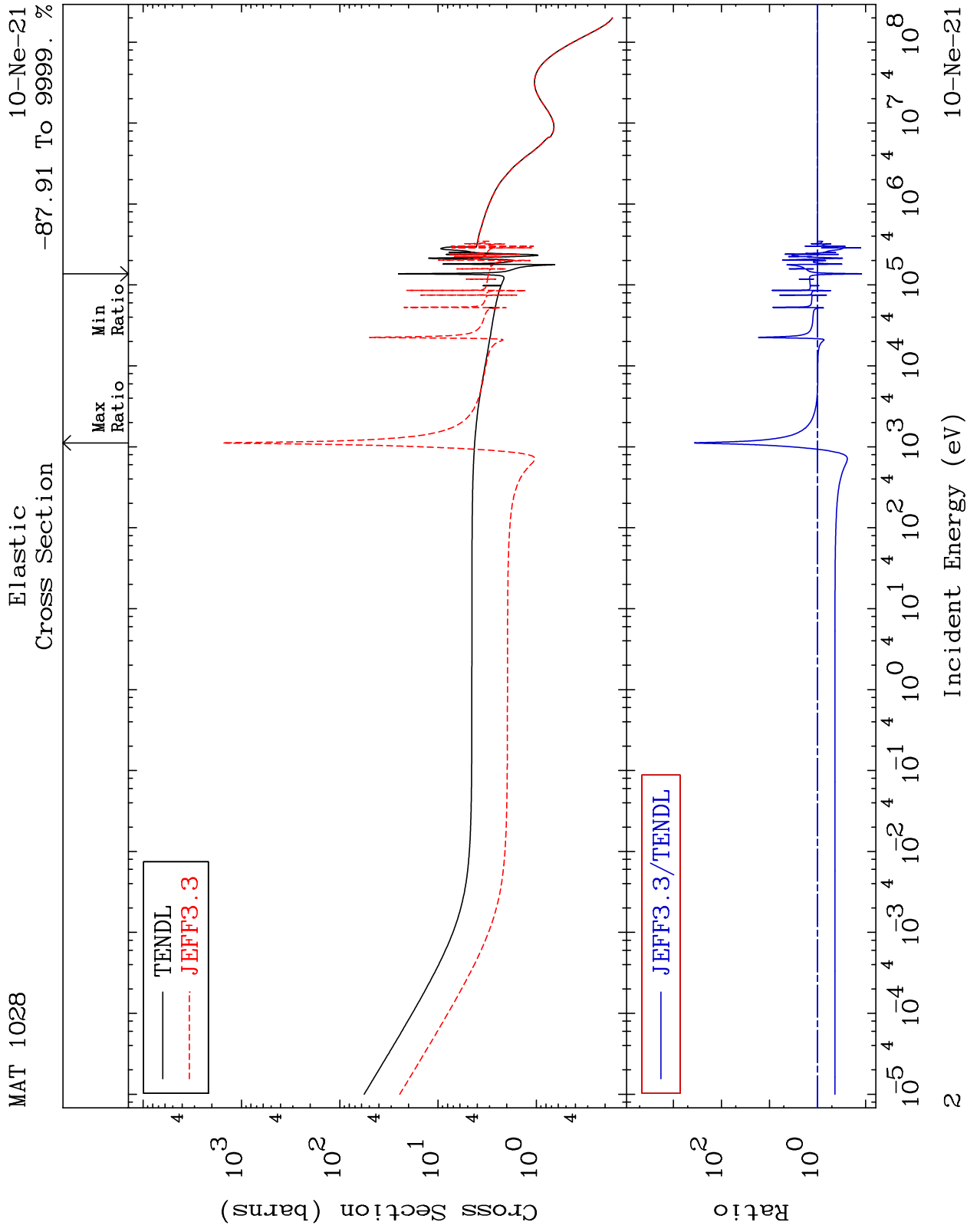
U.S.A.

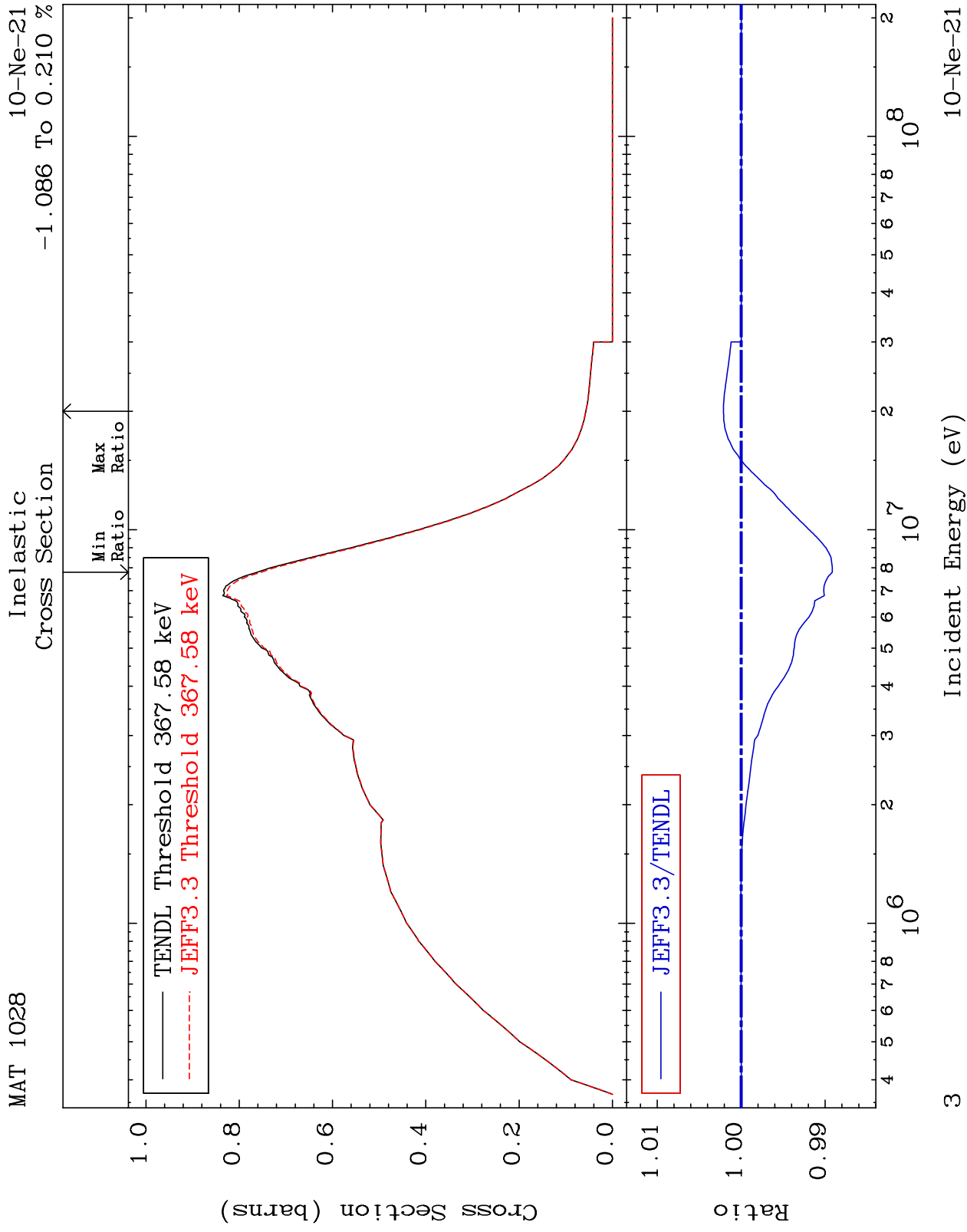
Tele: 925-443-1911

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

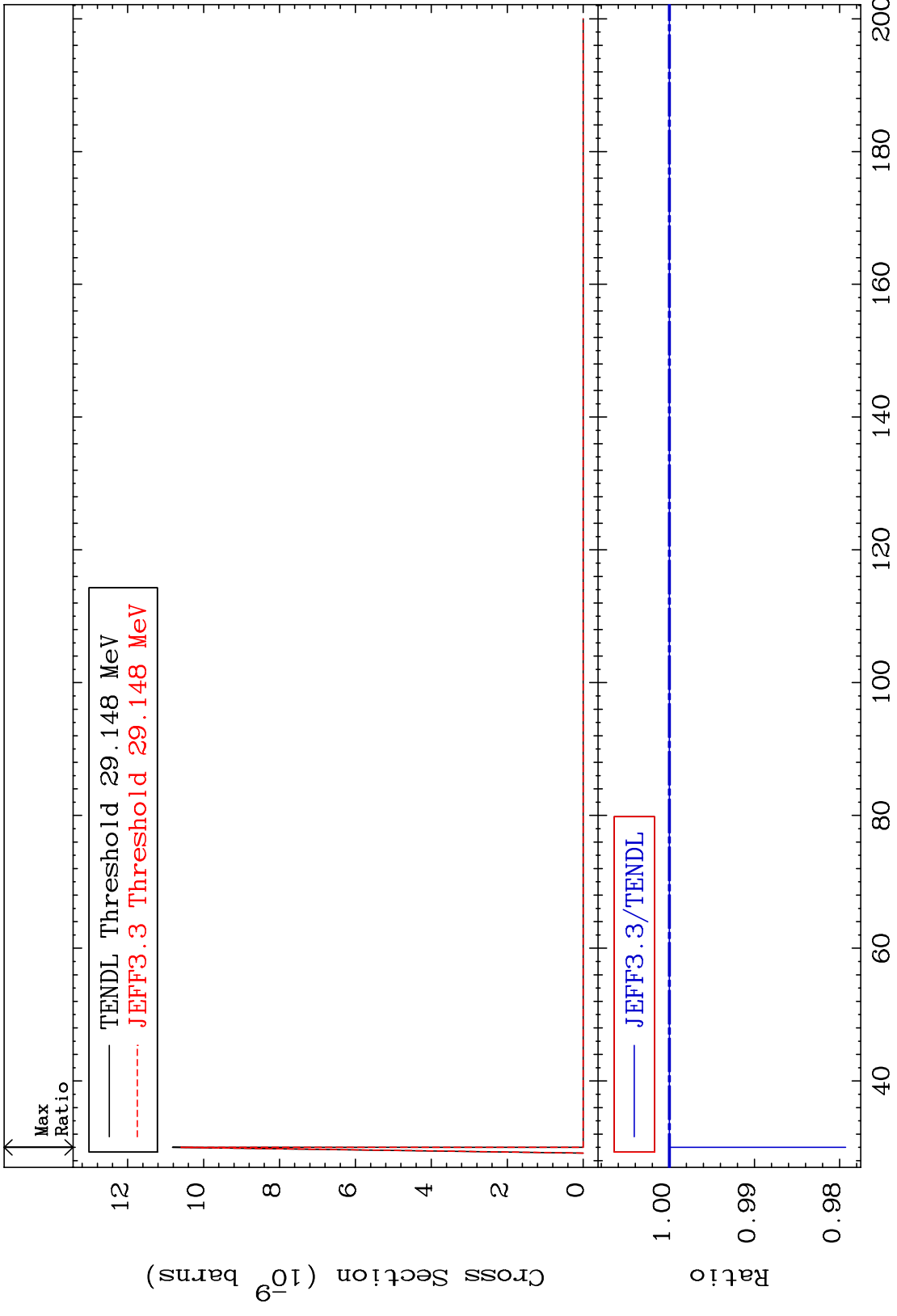
Press Mouse Button to Start







MAT 1028 (n,2n) d 10-Ne-21
 Cross Section -2.072 To 0.000 %



MAT 1028

(n,2n)

10-Ne-21

-0.953 To 0.000 %

Cross Section

Min Ratio

Max Ratio

TENDL Threshold 6.9895 MeV
JEFF3.3 Threshold 6.9895 MeV

Cross Section (milli-barns)

500
400
300
200
100
0

1.01
1.00
0.99

JEFF3.3/TENDL

Ratio

10⁷

2

3

4

5

6

7

8

10⁸

9

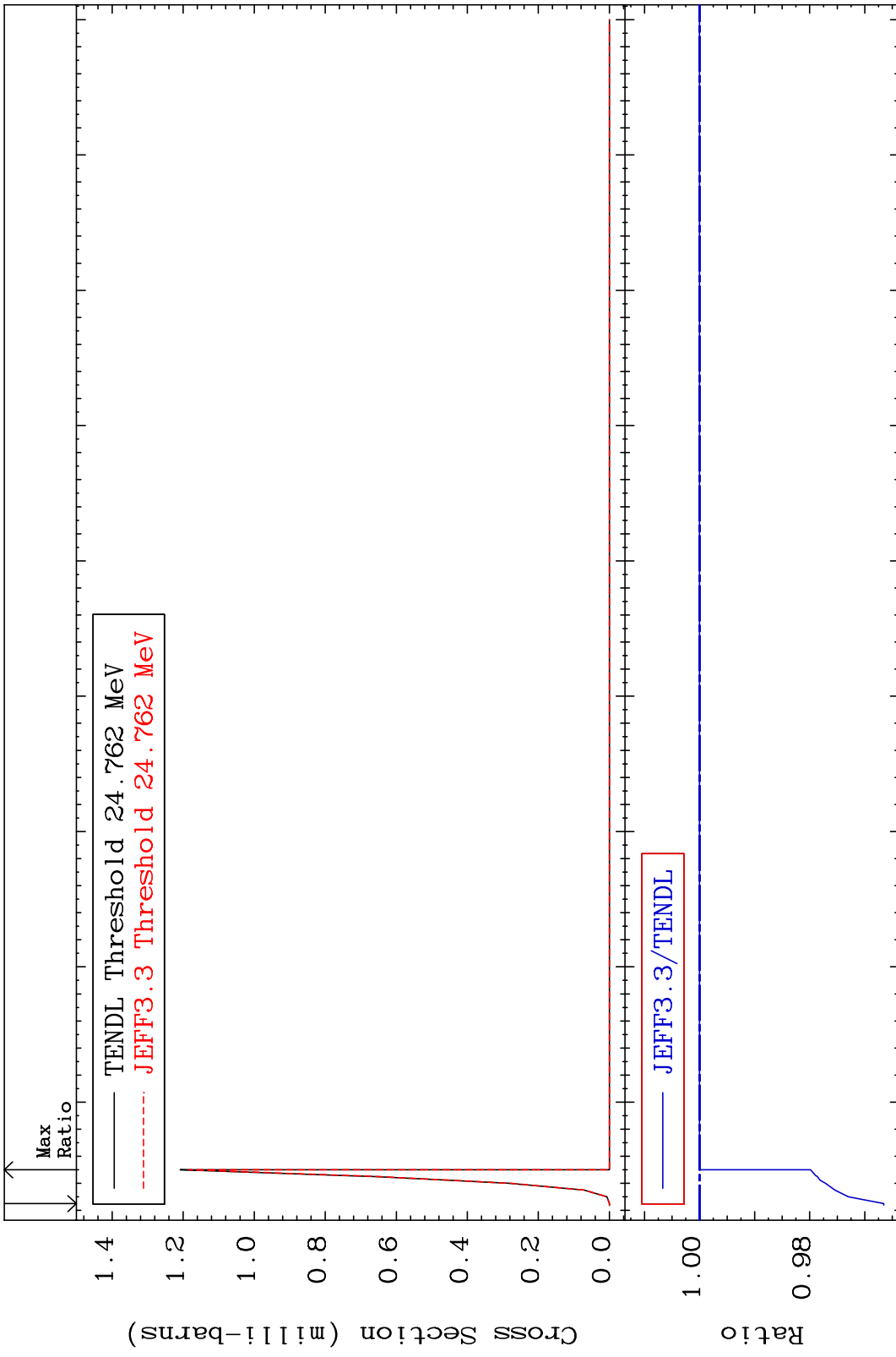
10

5

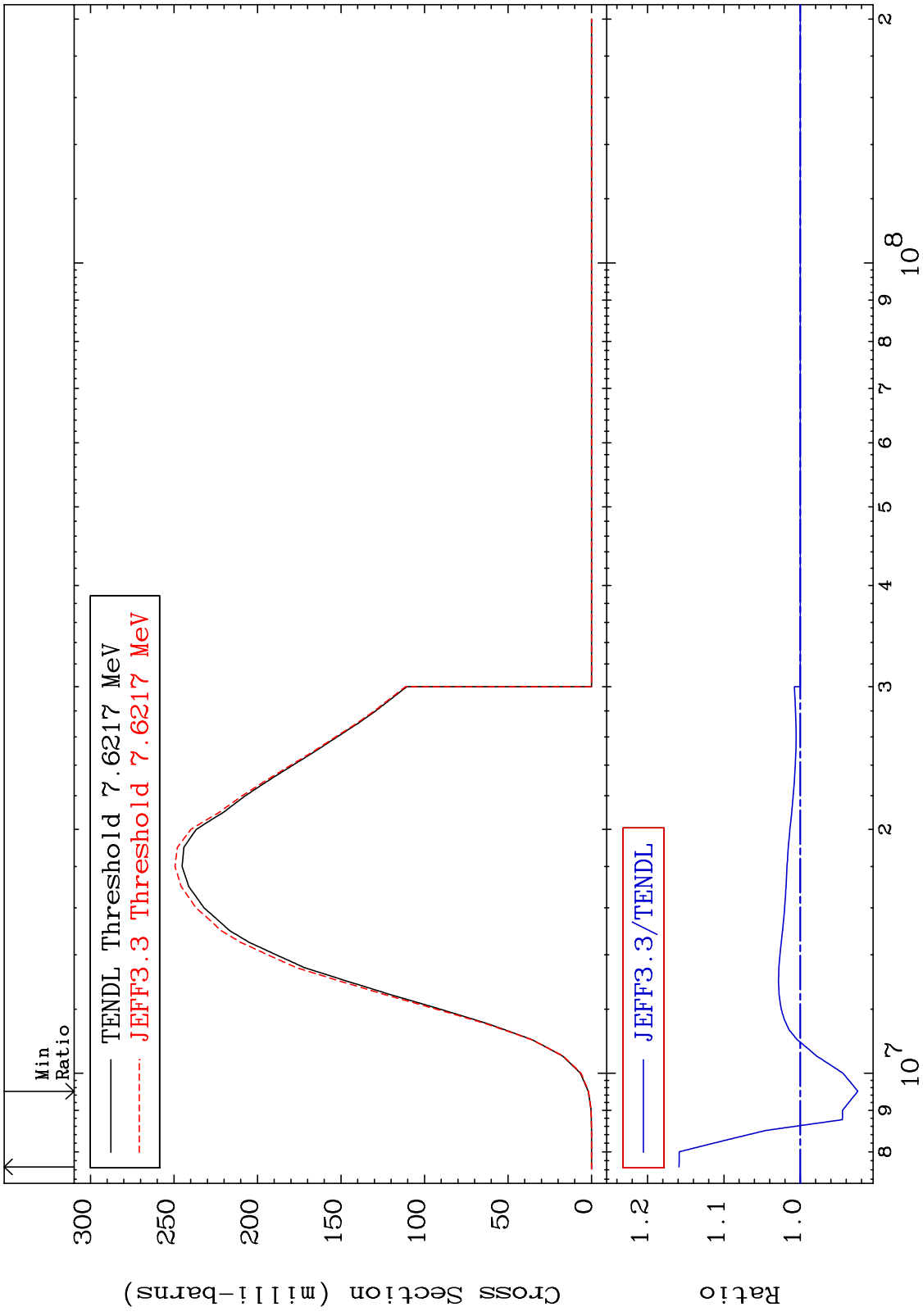
Incident Energy (eV)

10-Ne-21

MAT 1028 (n,3n) 10-Ne-21
Cross Section -3.344 To 0.000 %

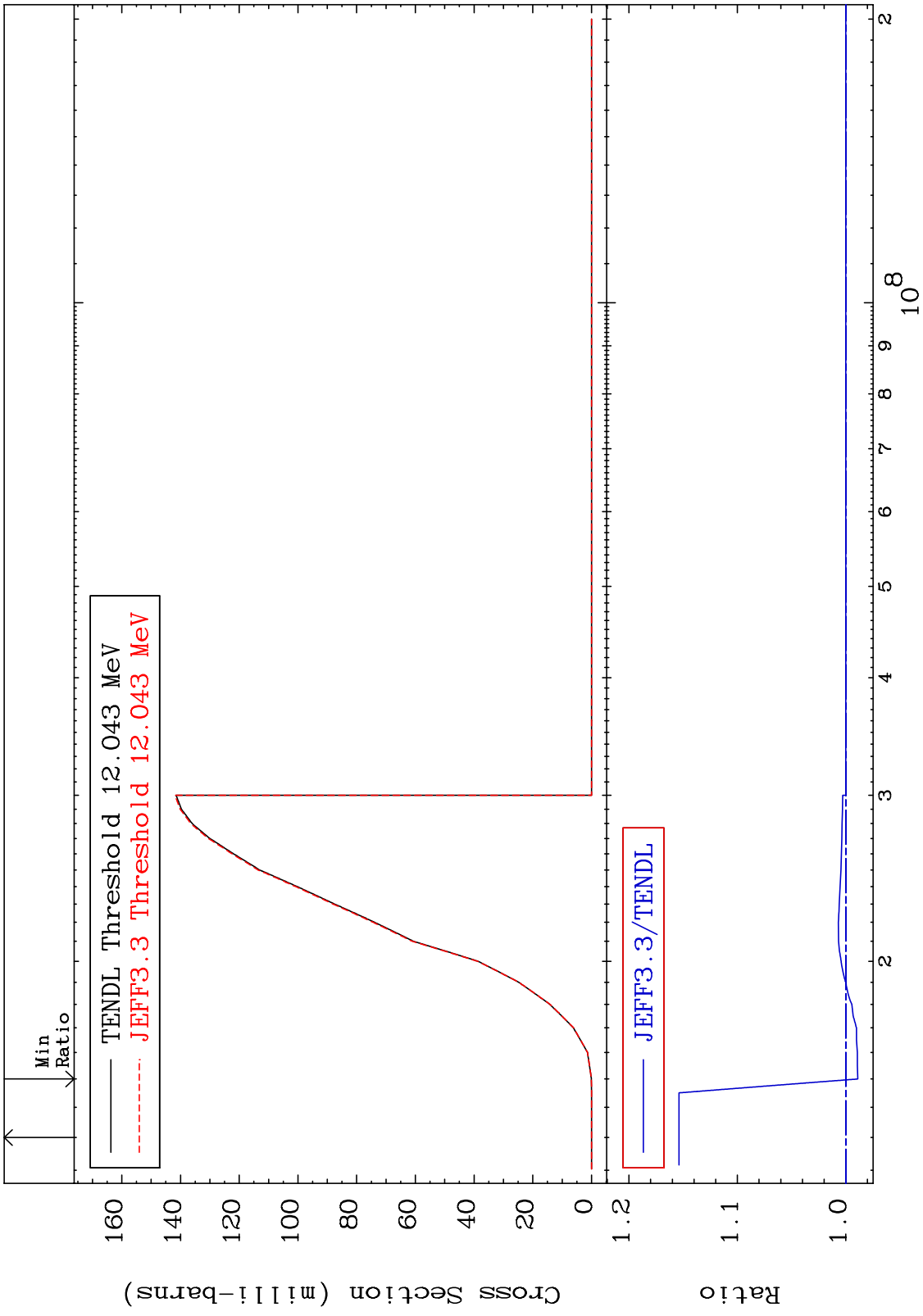


MAT 1028 $(n, n') \alpha$ 10-Ne-21
Cross Section -7.530 To 15.87 %

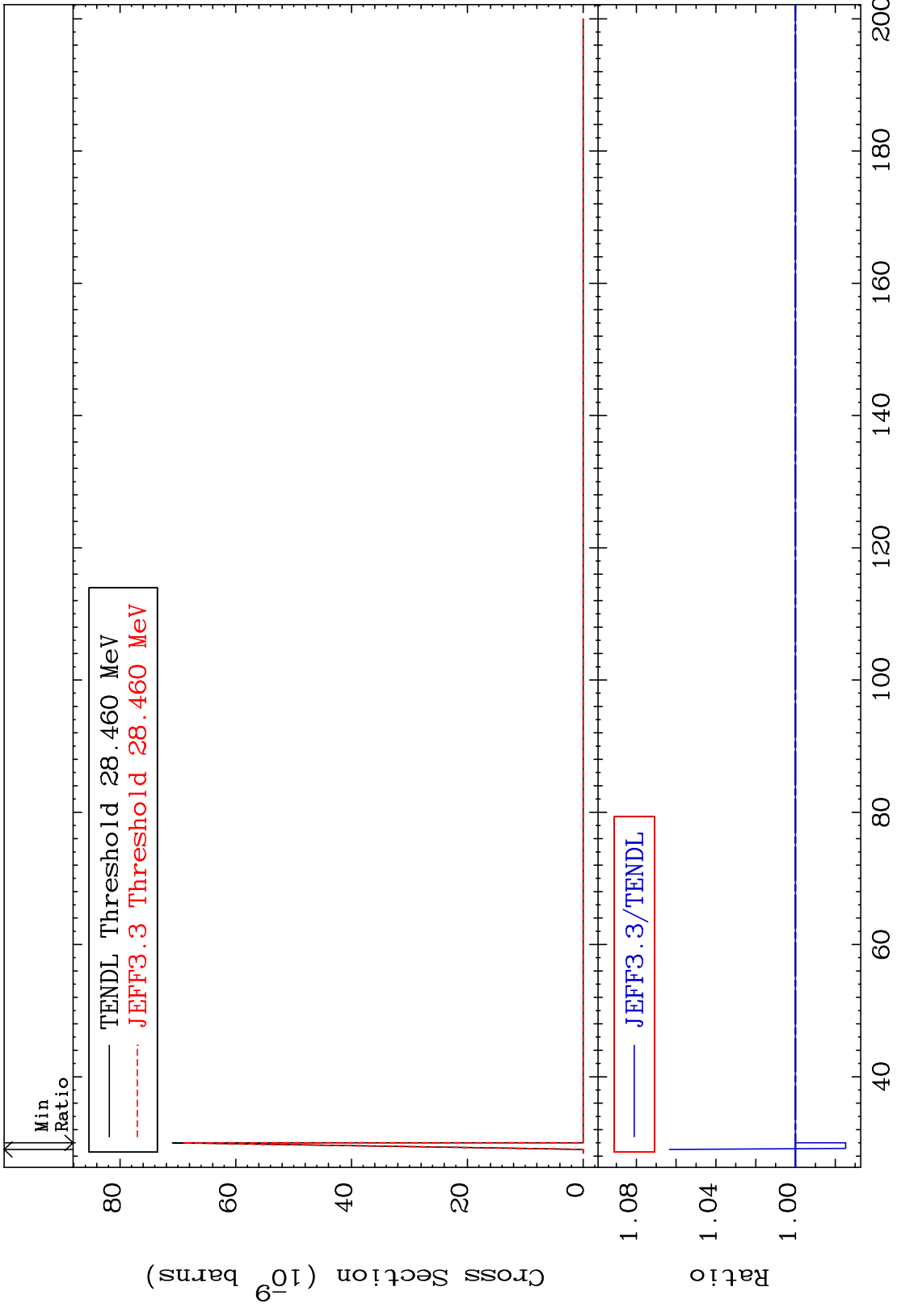


Incident Energy (eV) 10-Ne-21

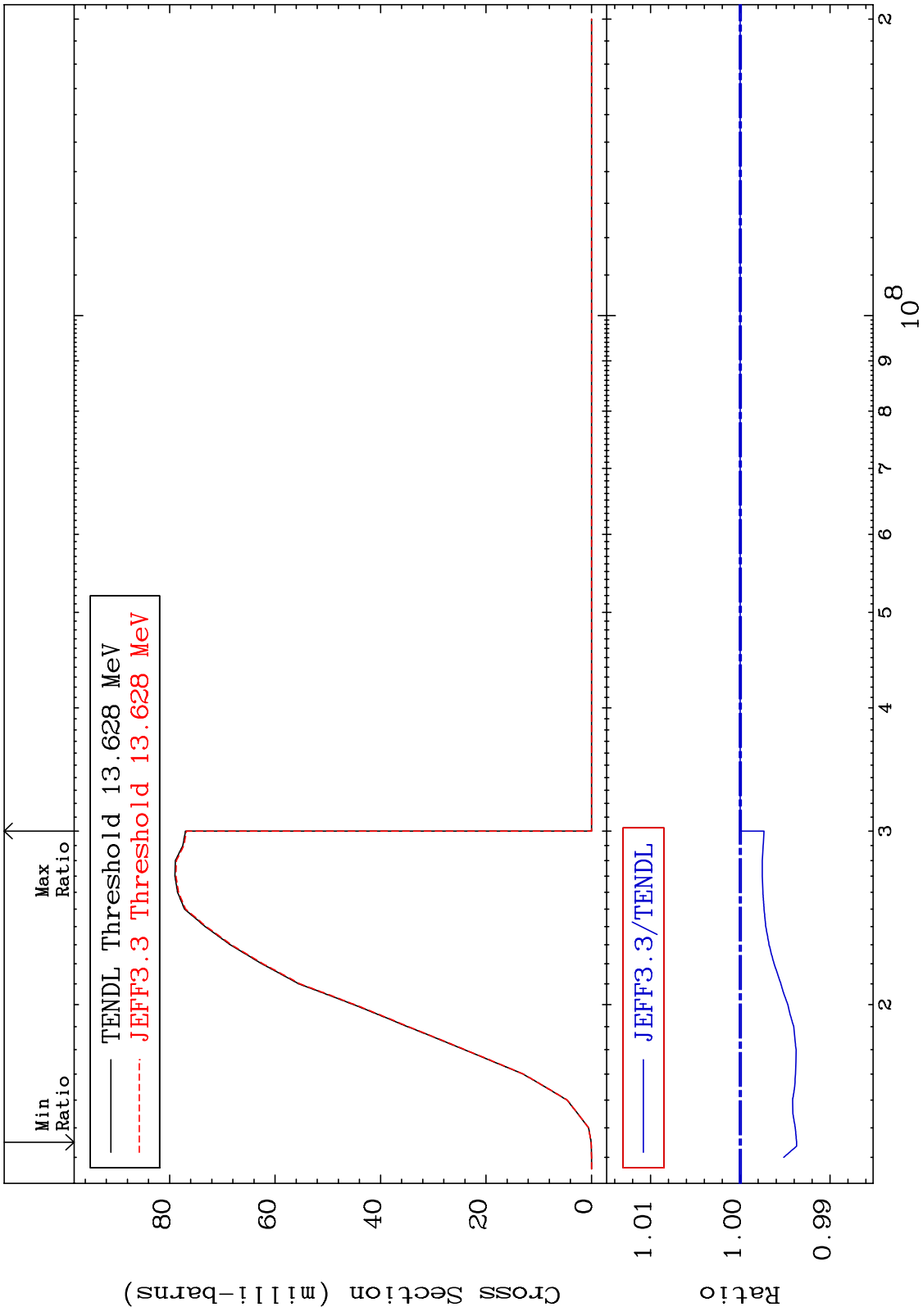
MAT 1028 $(n, 2n) \alpha$ 10-Ne-21
 Cross Section -1.110 To 15.38 %



MAT 1028 (n,3n) α 10-Ne-21
 Cross Section -2.522 To 6.335 %

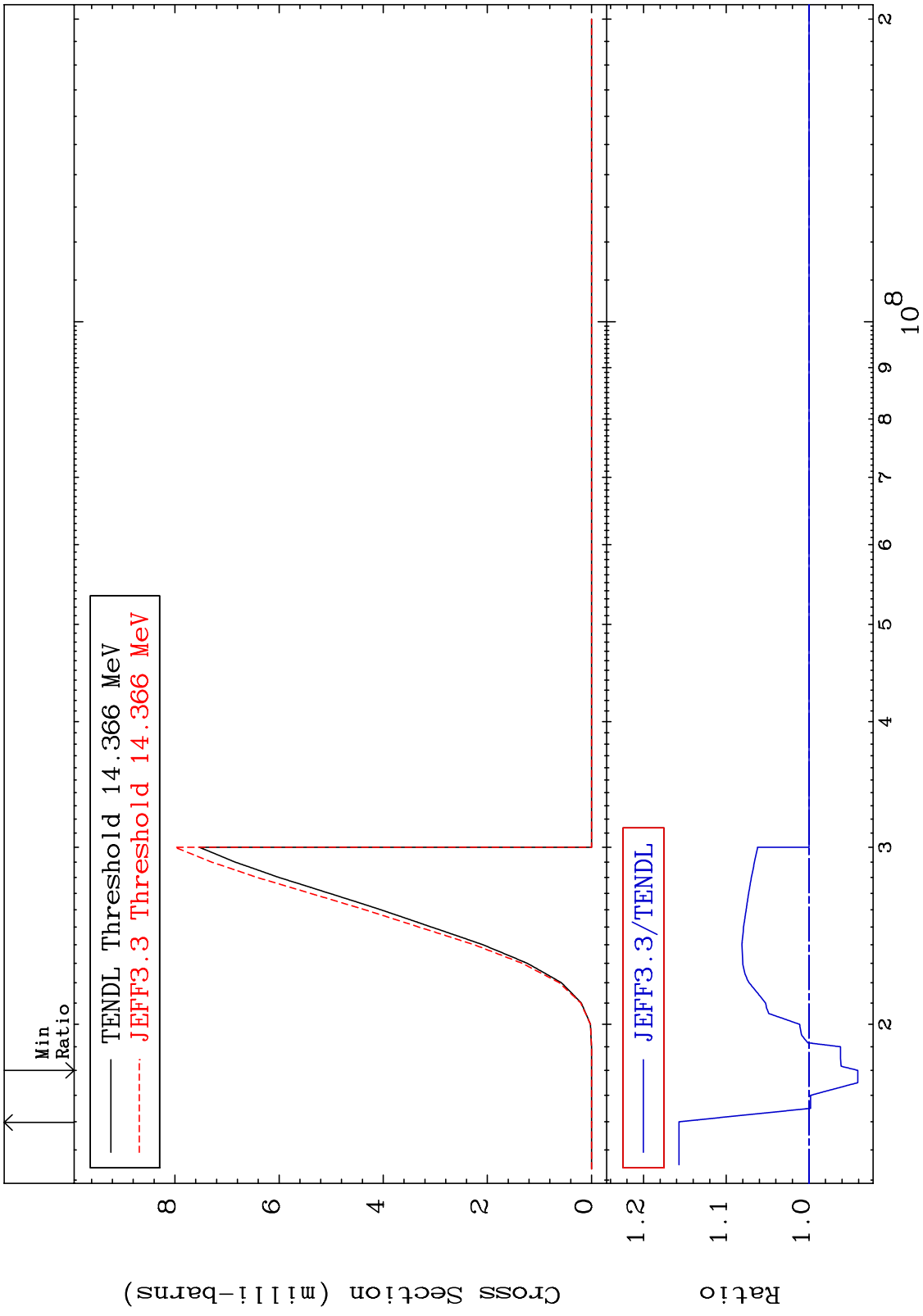


MAT 1028 (n,n') p 10-Ne-21
 Cross Section -0.628 To 0.000 %

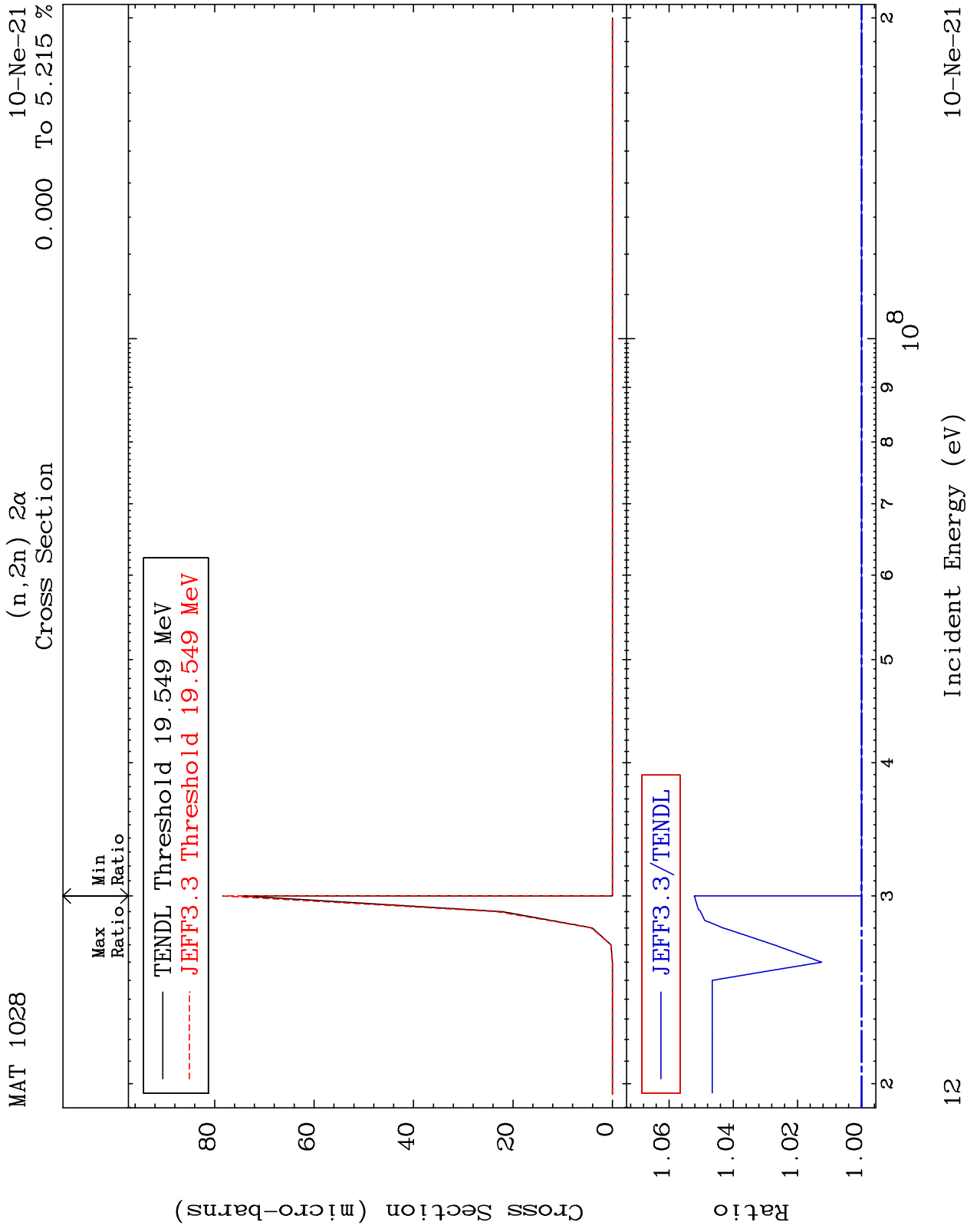


10 10-Ne-21

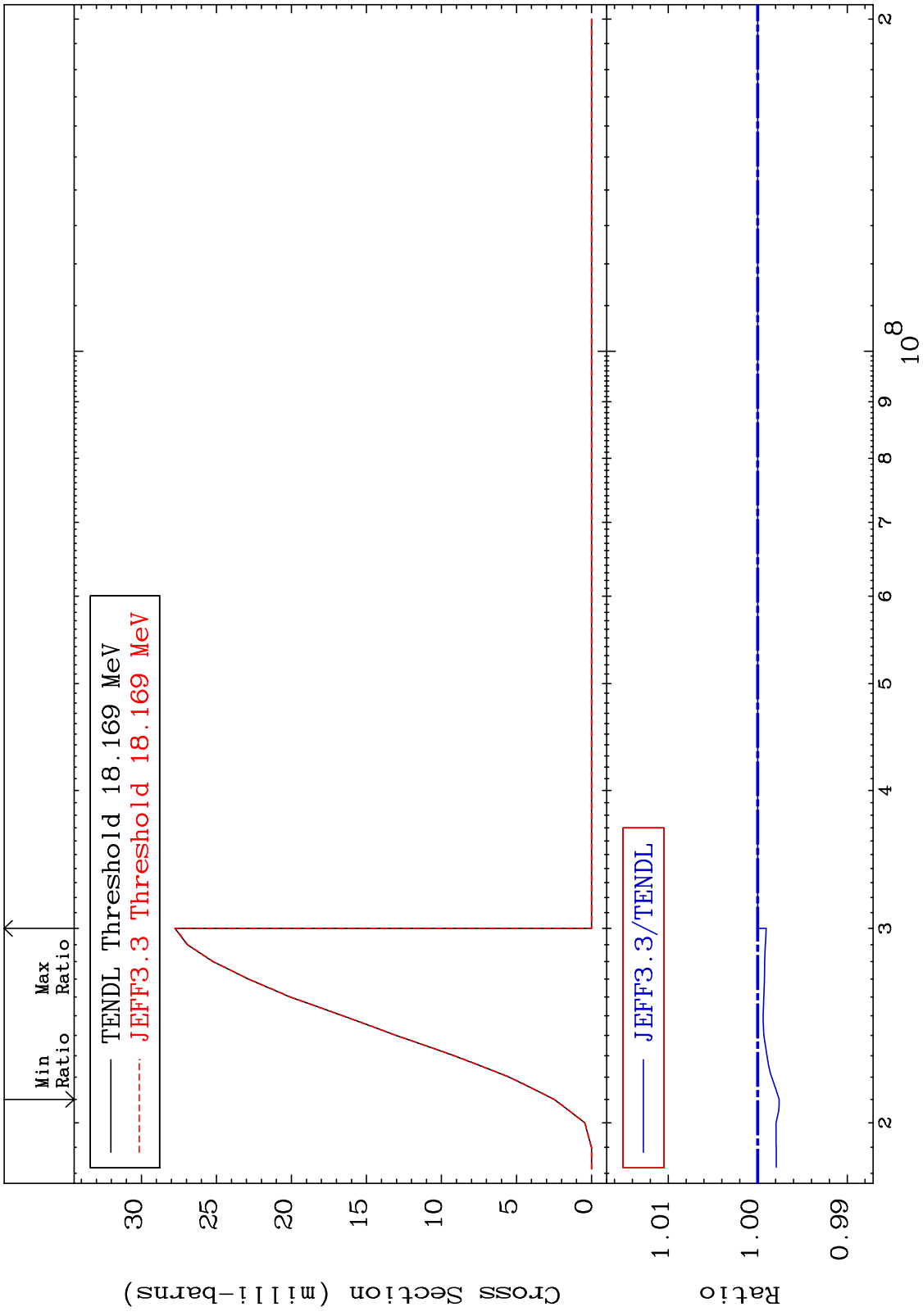
MAT 1028 (n,n') 2α 10-Ne-21
 Cross Section -5.912 To 15.71 %



11 10-Ne-21 Incident Energy (eV)

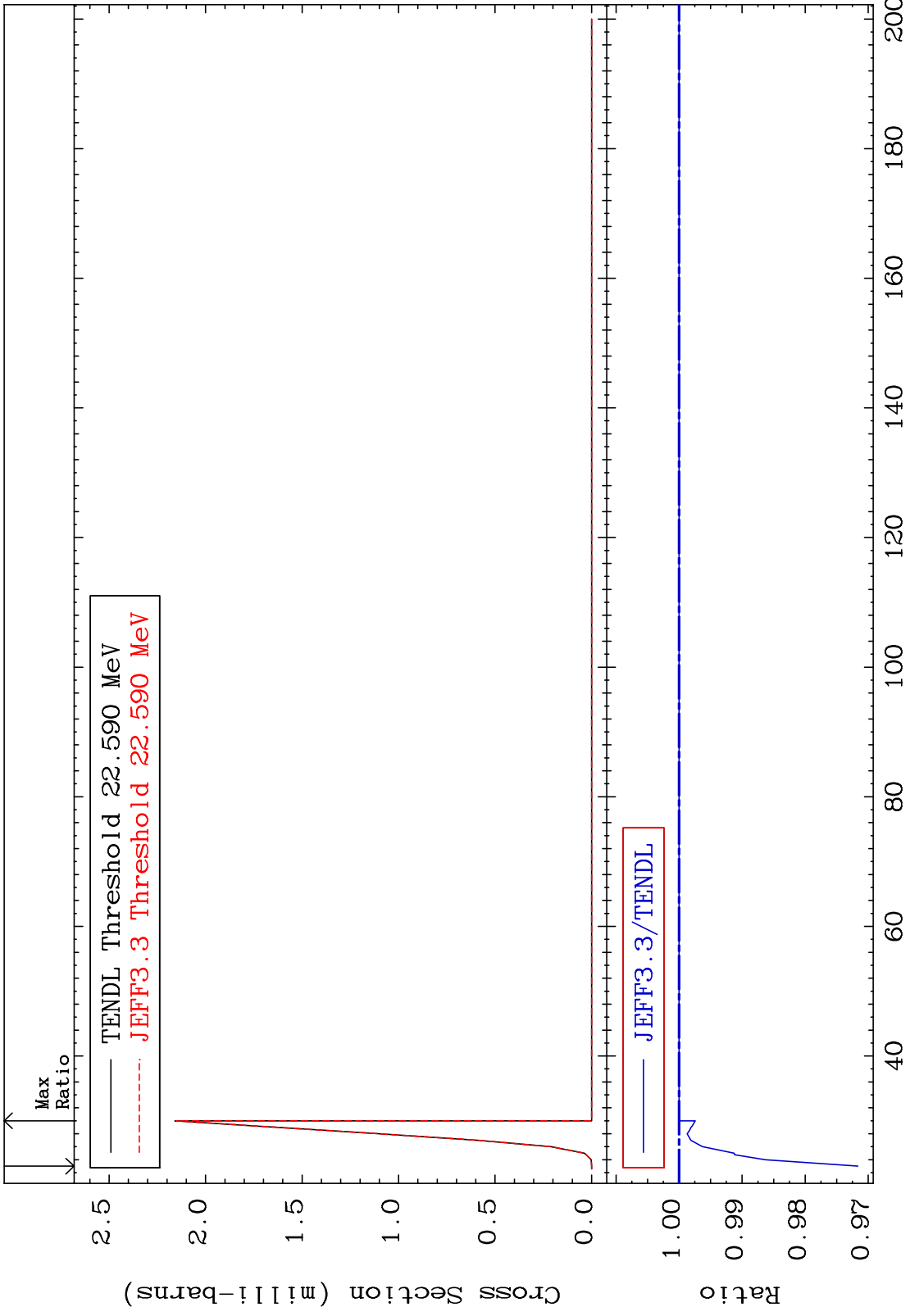


MAT 1028 (n,n') d 10-Ne-21
 Cross Section -0.240 To 0.000 %

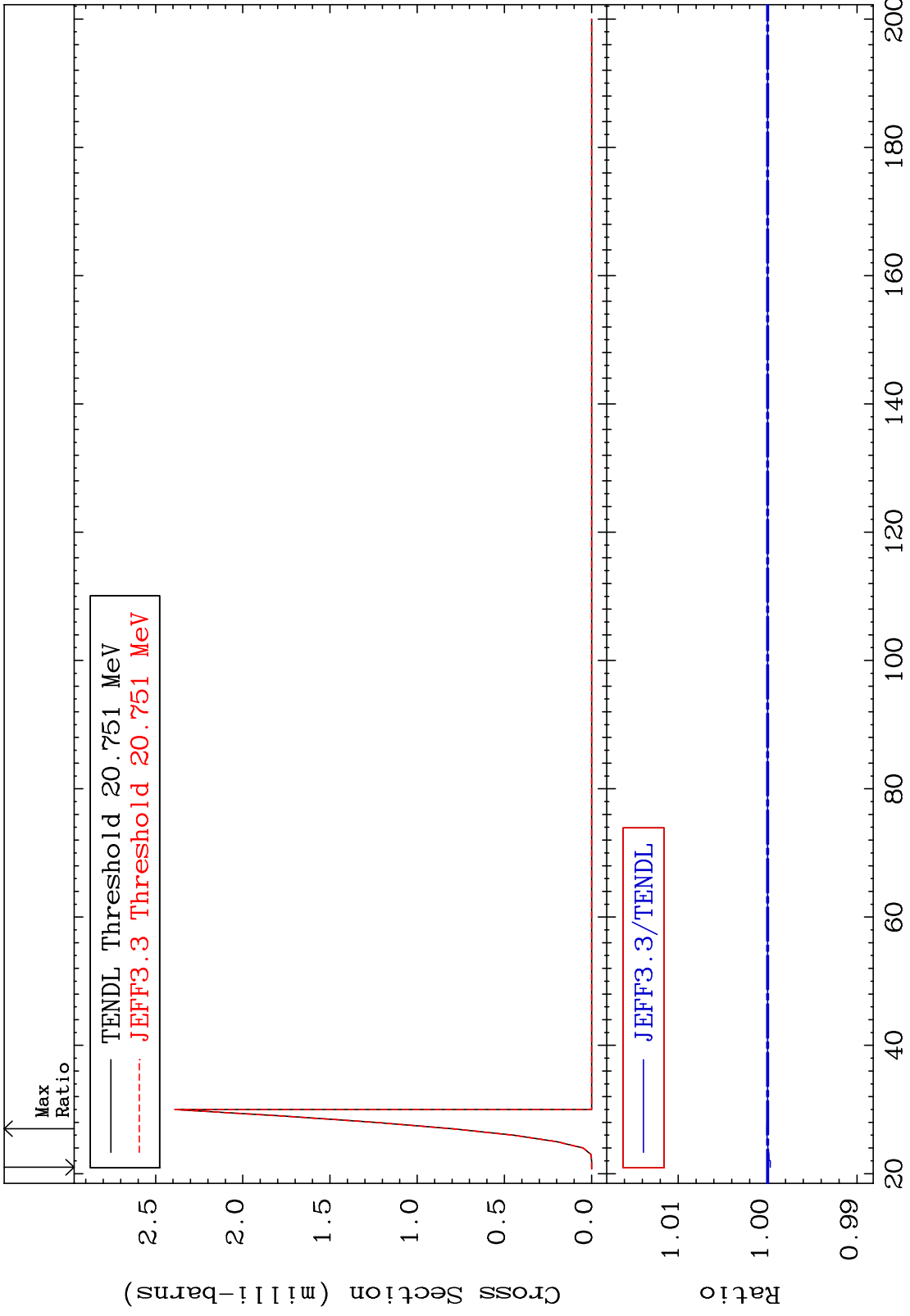


13 10-Ne-21

MAT 1028 (n,n') t 10-Ne-21
 Cross Section -2.838 To 0.000 %

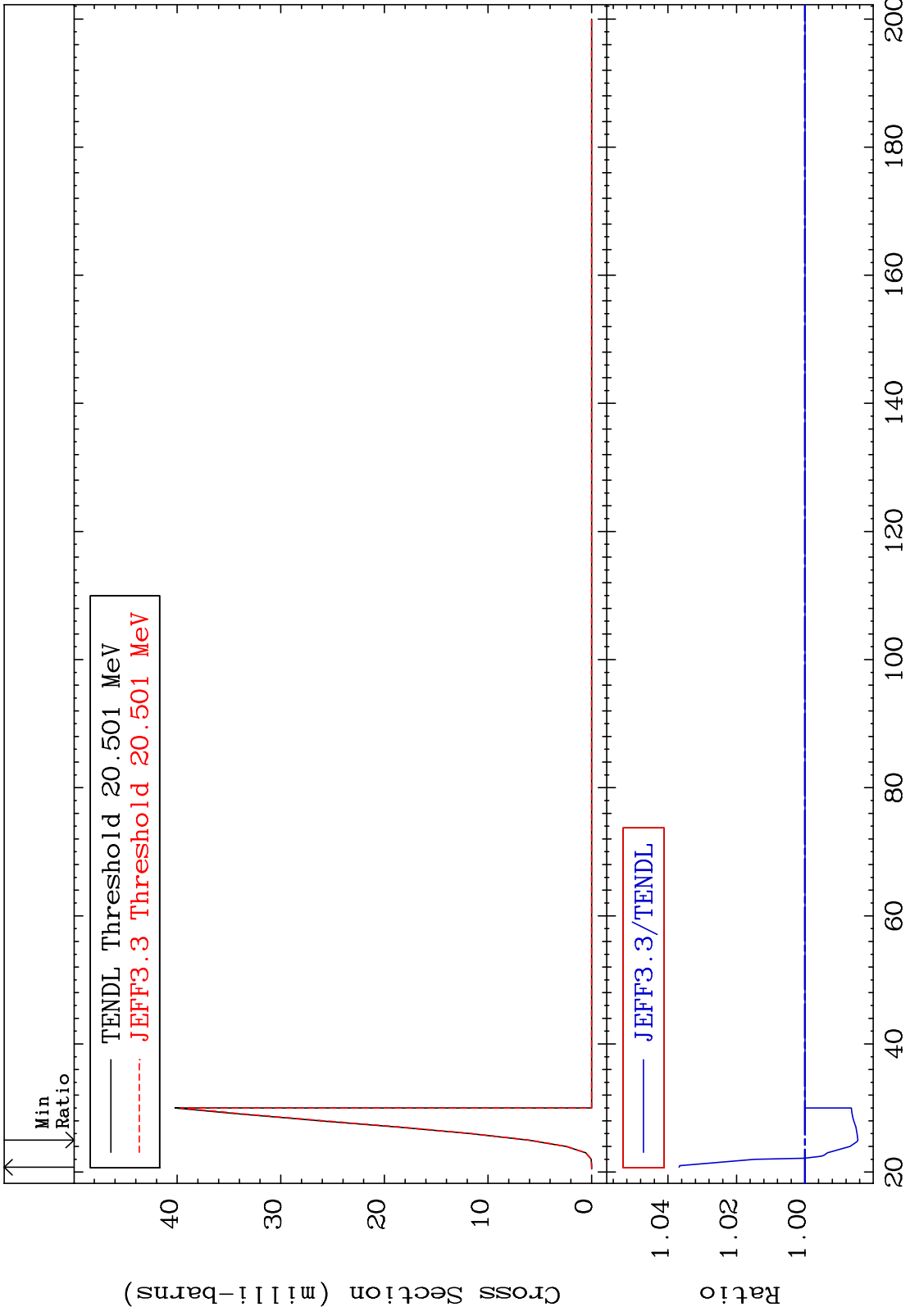


MAT 1028 (n,n') He-3 10-Ne-21
 Cross Section -0.029 To 0.007 %



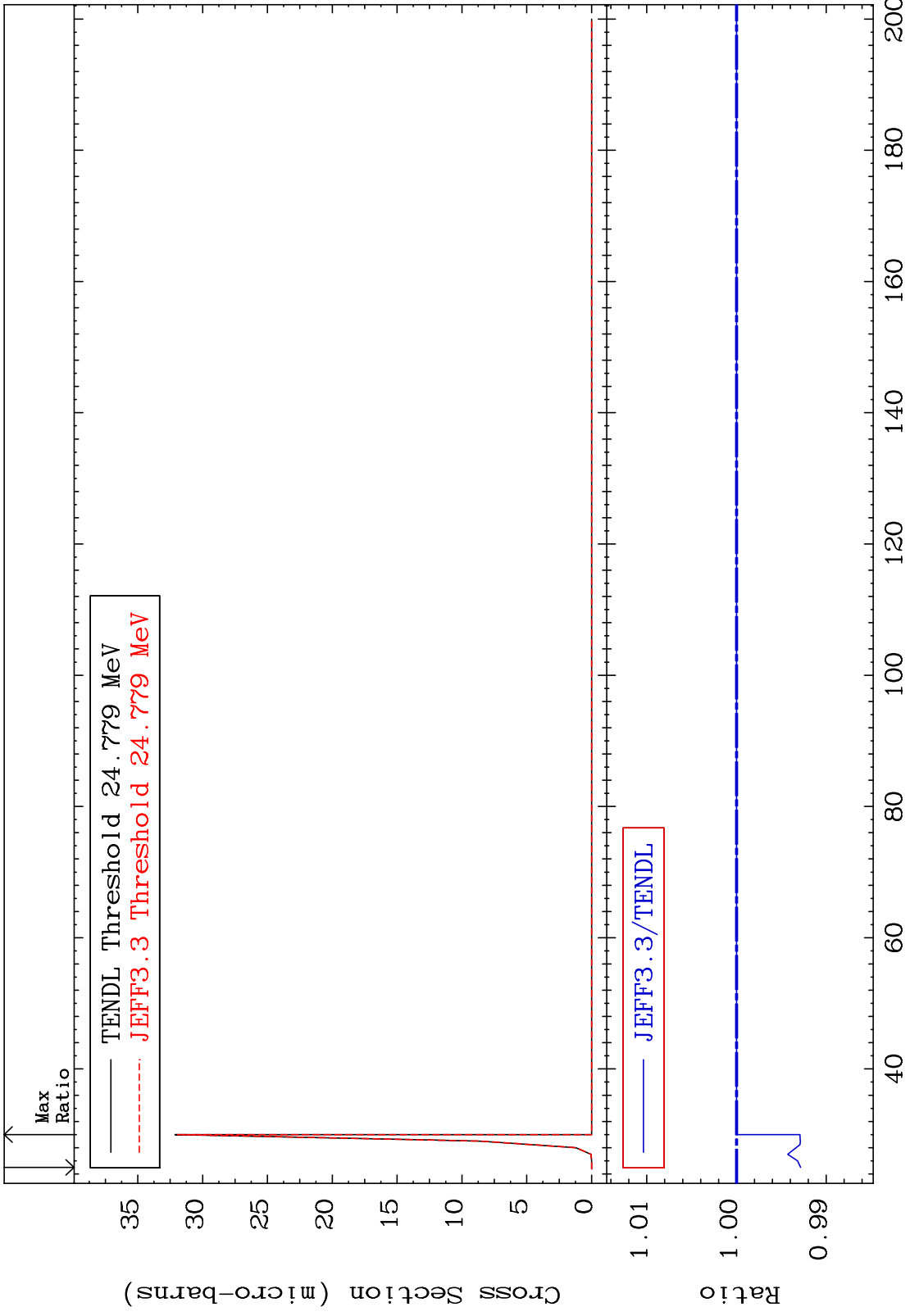
15 10-Ne-21

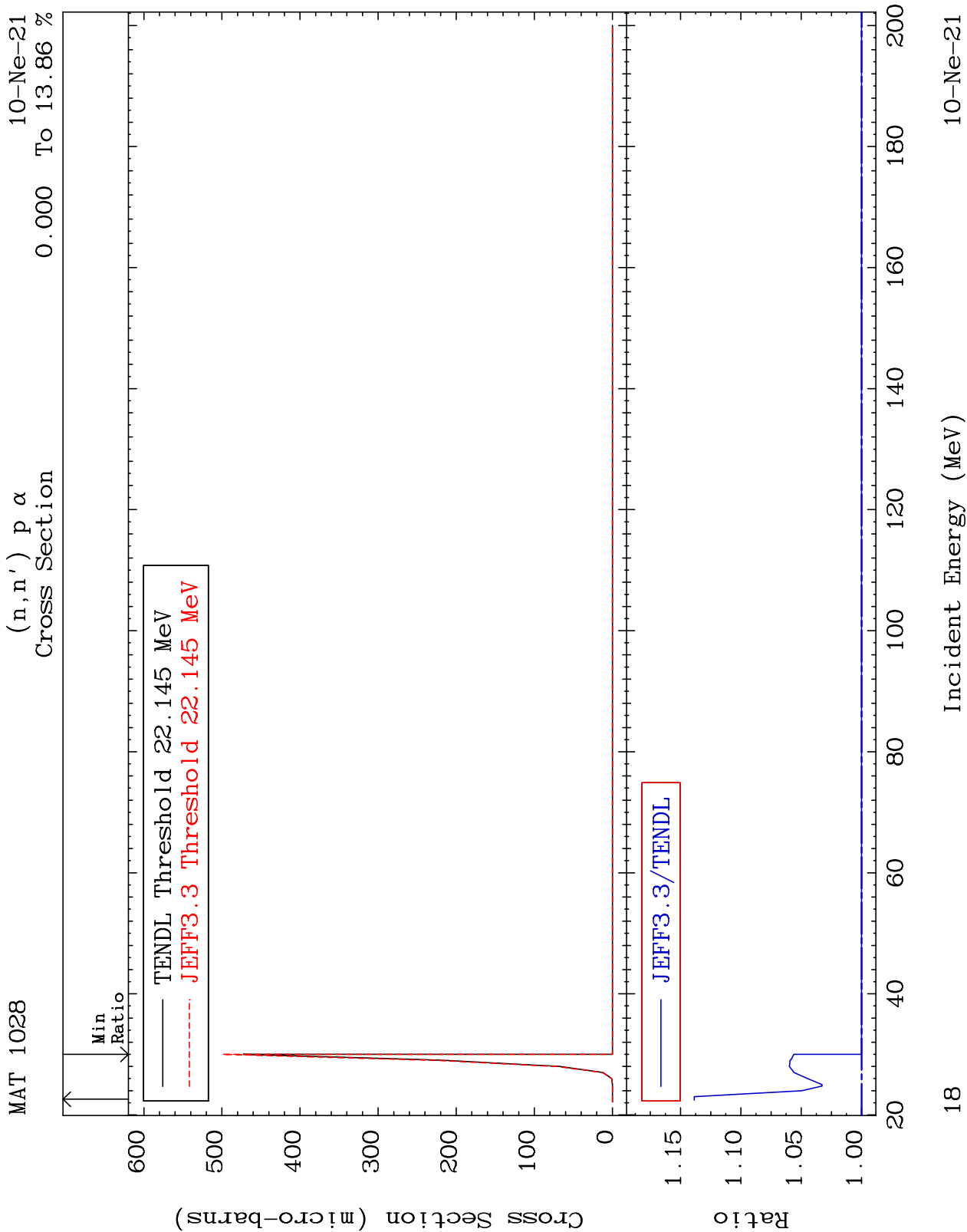
MAT 1028 (n,2n) p 10-Ne-21
 Cross Section -1.548 To 3.674 %

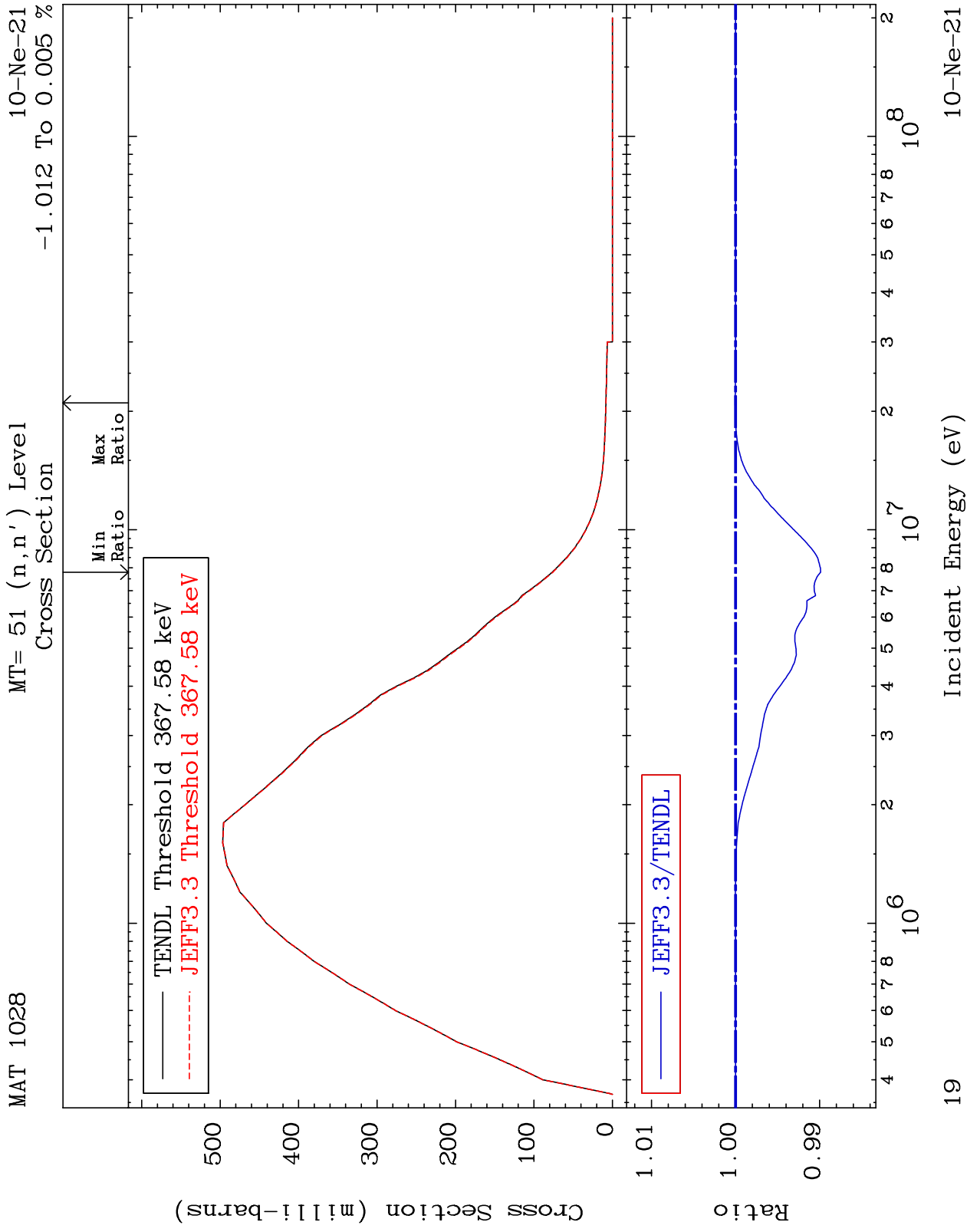


16 10-Ne-21

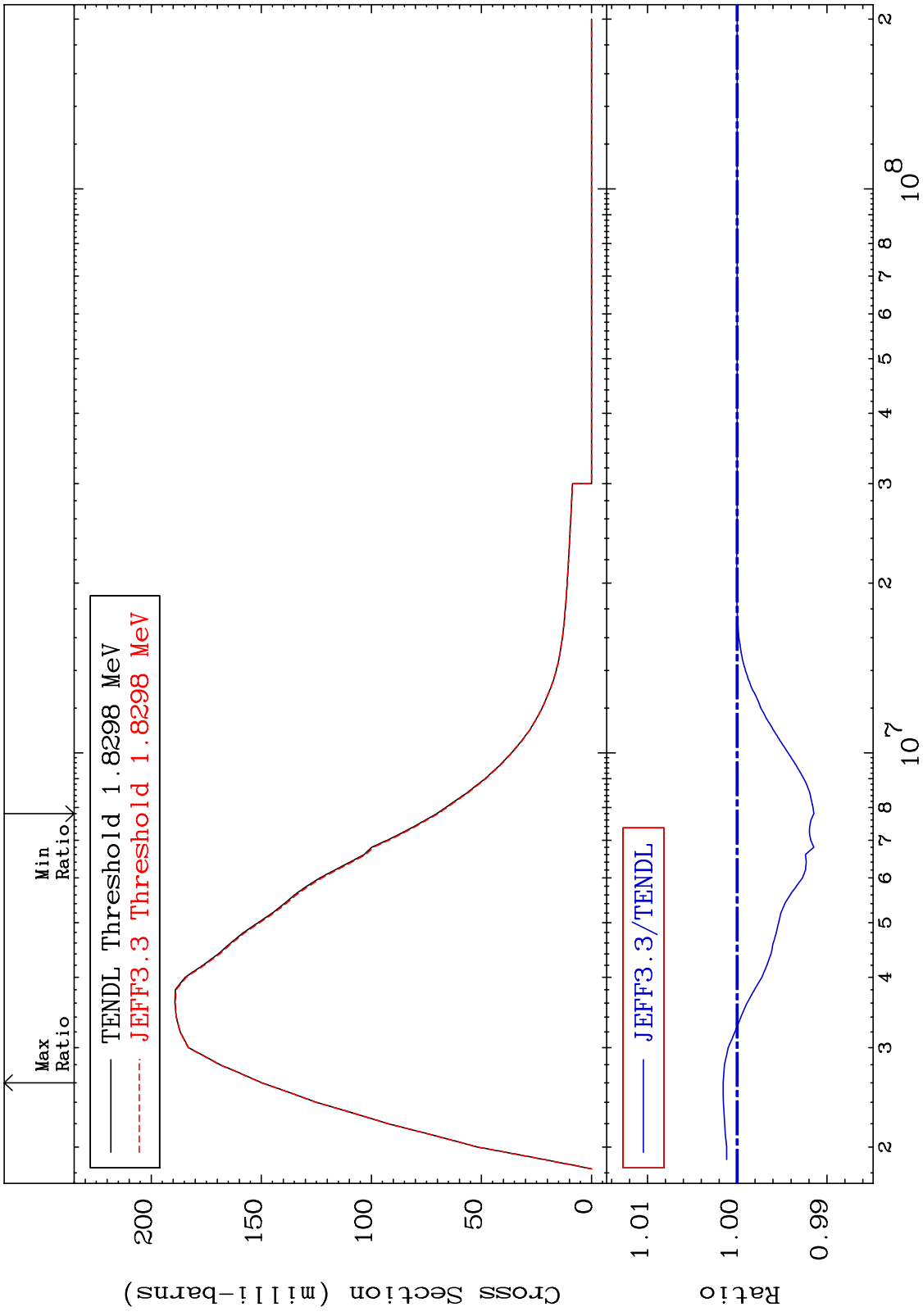
MAT 1028 (n,2n) p 10-Ne-21
 Cross Section -0.714 To 0.000 %



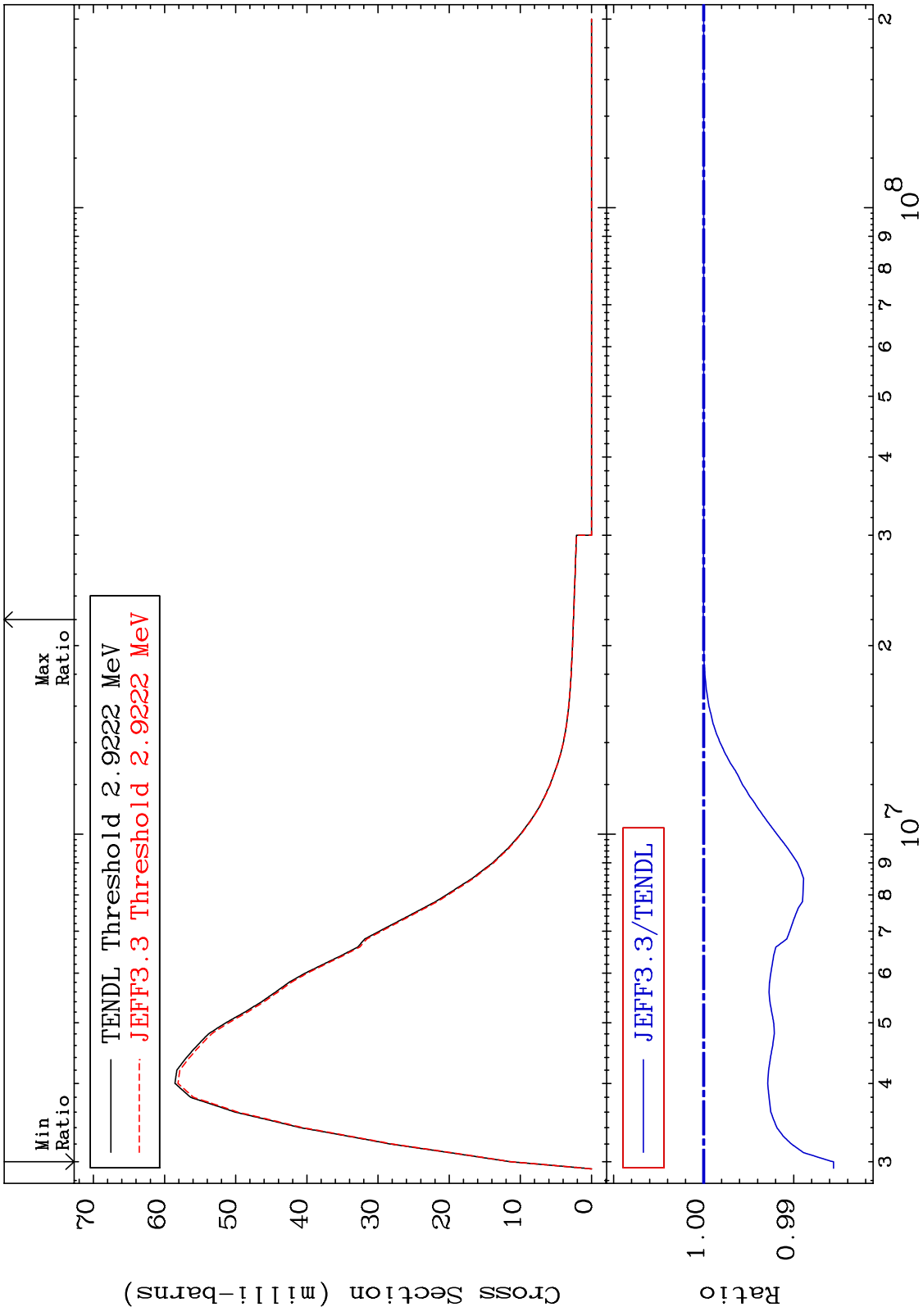




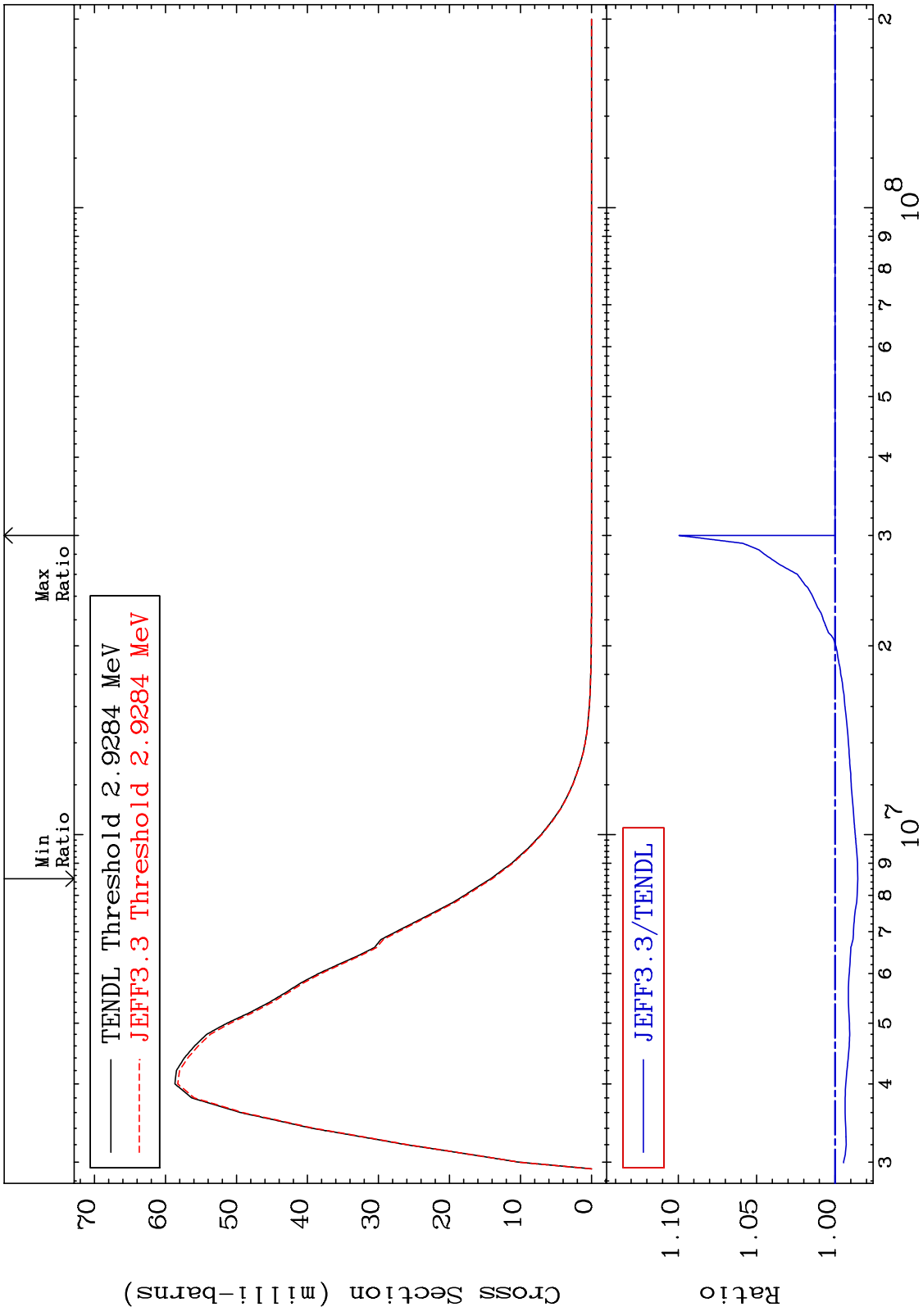
MAT 1028 MT= 52 (n,n') Level Cross Section 10-Ne-21 -0.854 To 0.158 %



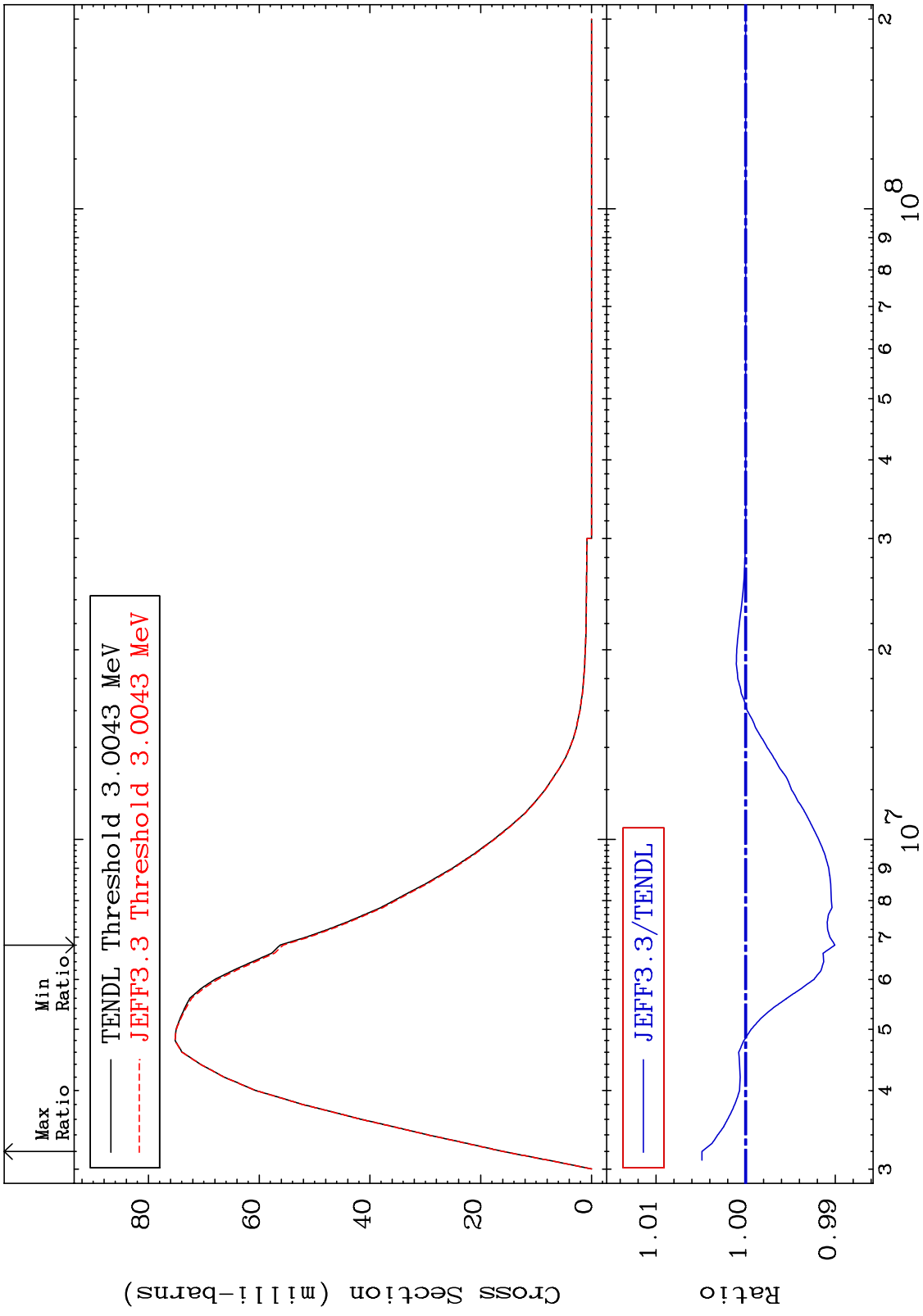
MAT 1028 MT= 53 (n,n') Level Cross Section -1.443 To 0.003 % 10-Ne-21



MAT 1028 MT= 54 (n,n') Level Cross Section -1.452 To 9.948 % 10-Ne-21

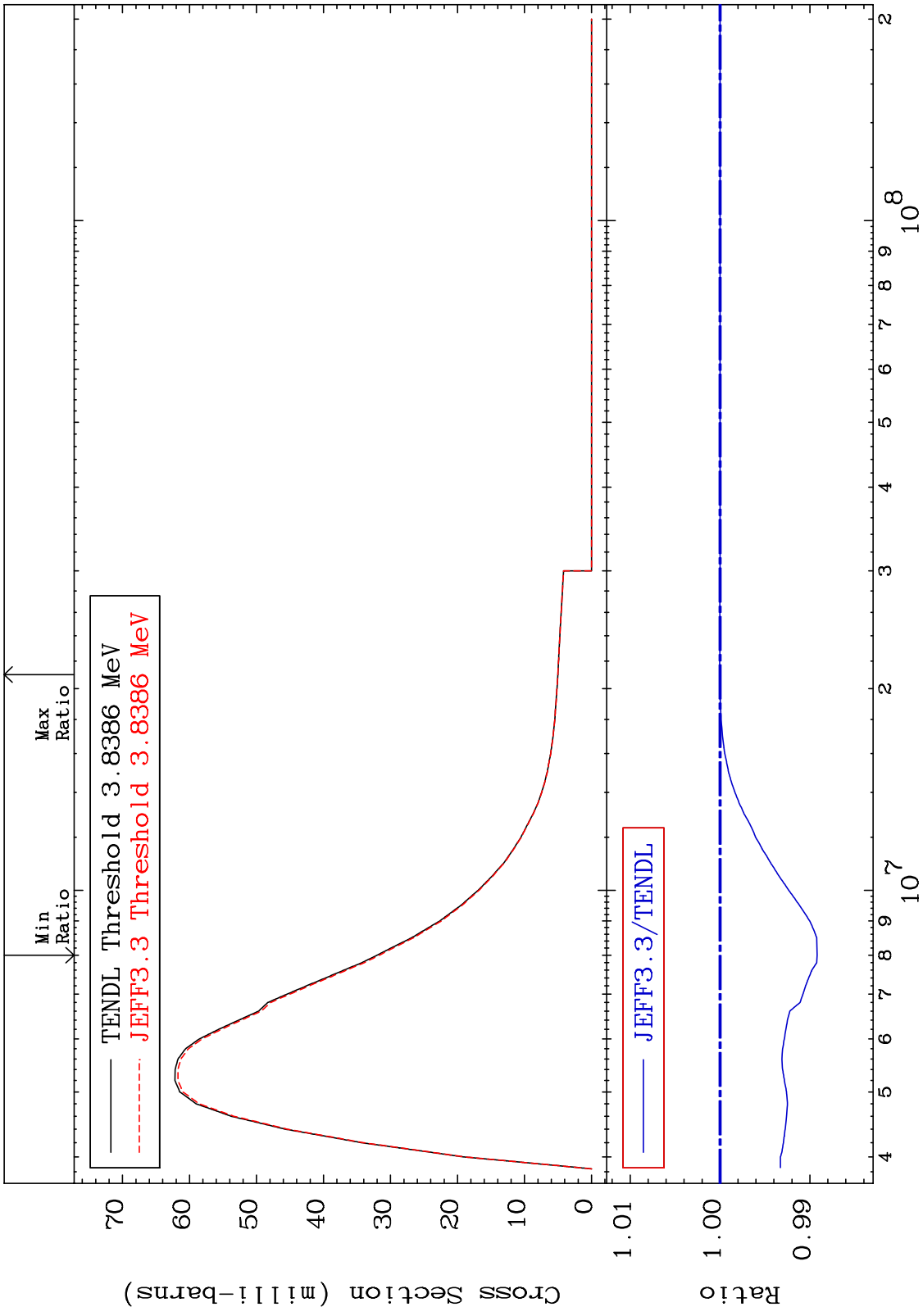


MAT 1028 MT= 55 (n,n') Level Cross Section 10-Ne-21
 -0.995 To 0.488 %

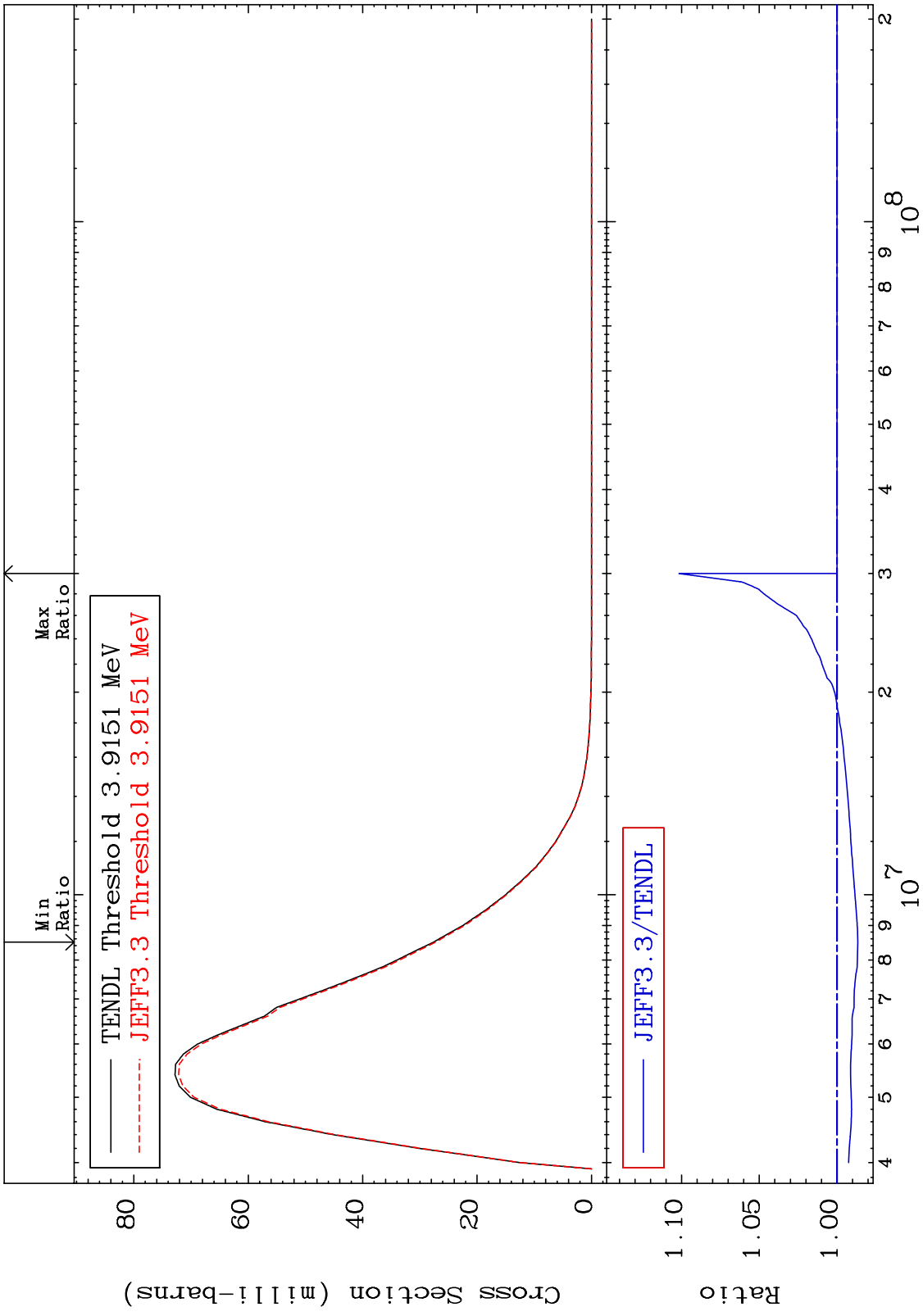


Incident Energy (eV) 10-Ne-21

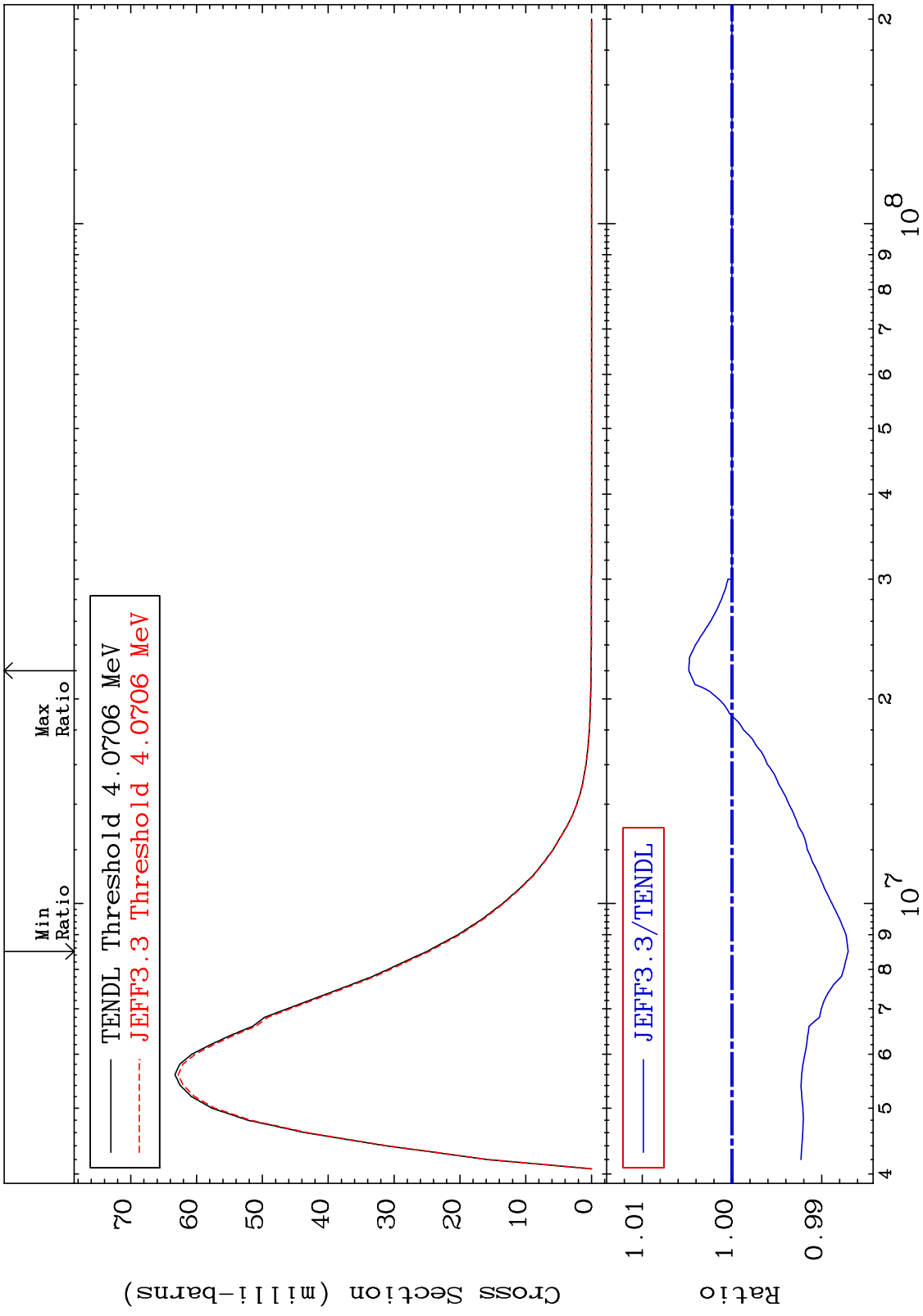
MAT 1028 MT= 56 (n,n') Level Cross Section 10-Ne-21
 -1.081 To 0.003 %



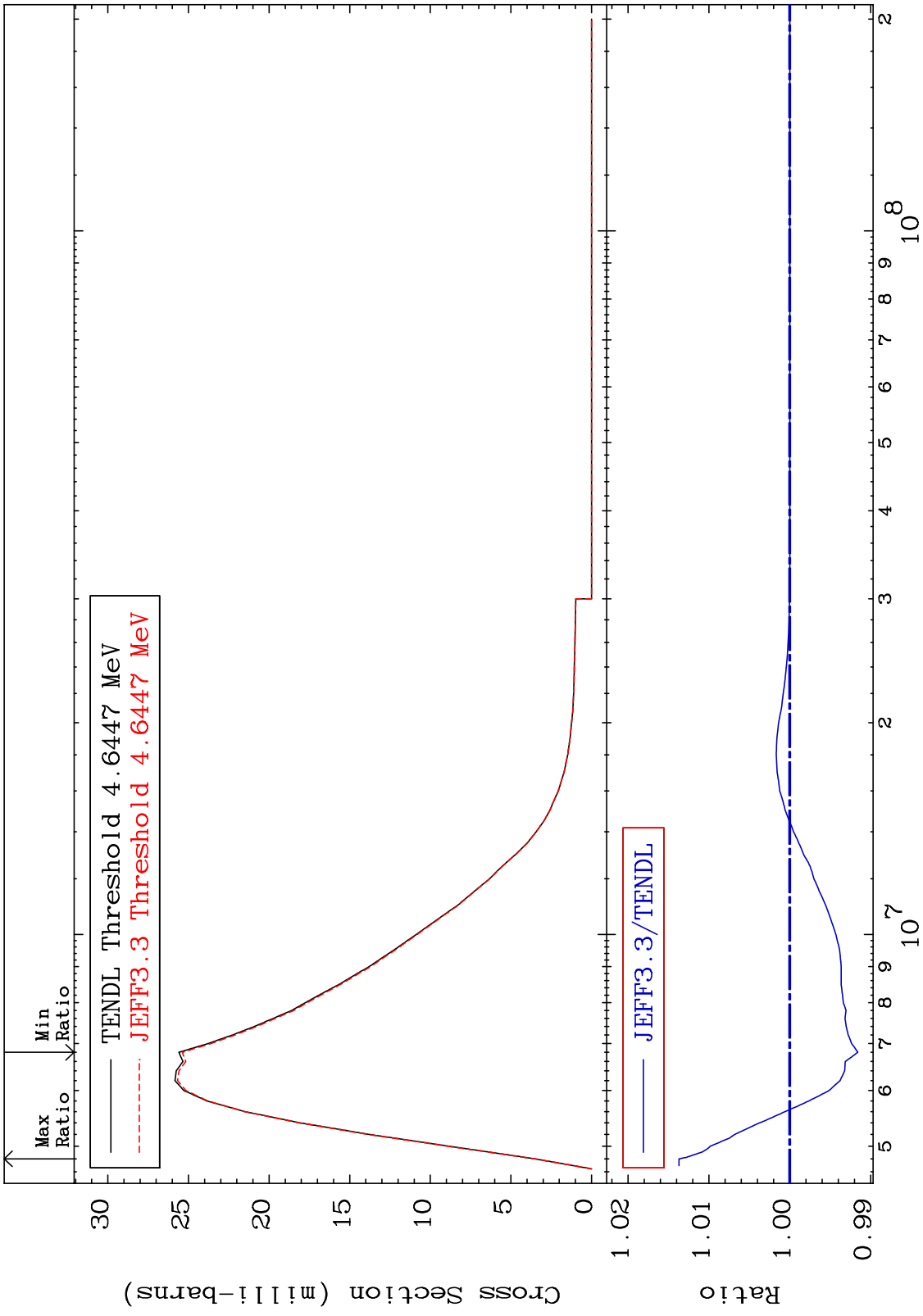
MAT 1028 MT= 57 (n,n') Level Cross Section -1.341 To 10.16 % 10-Ne-21



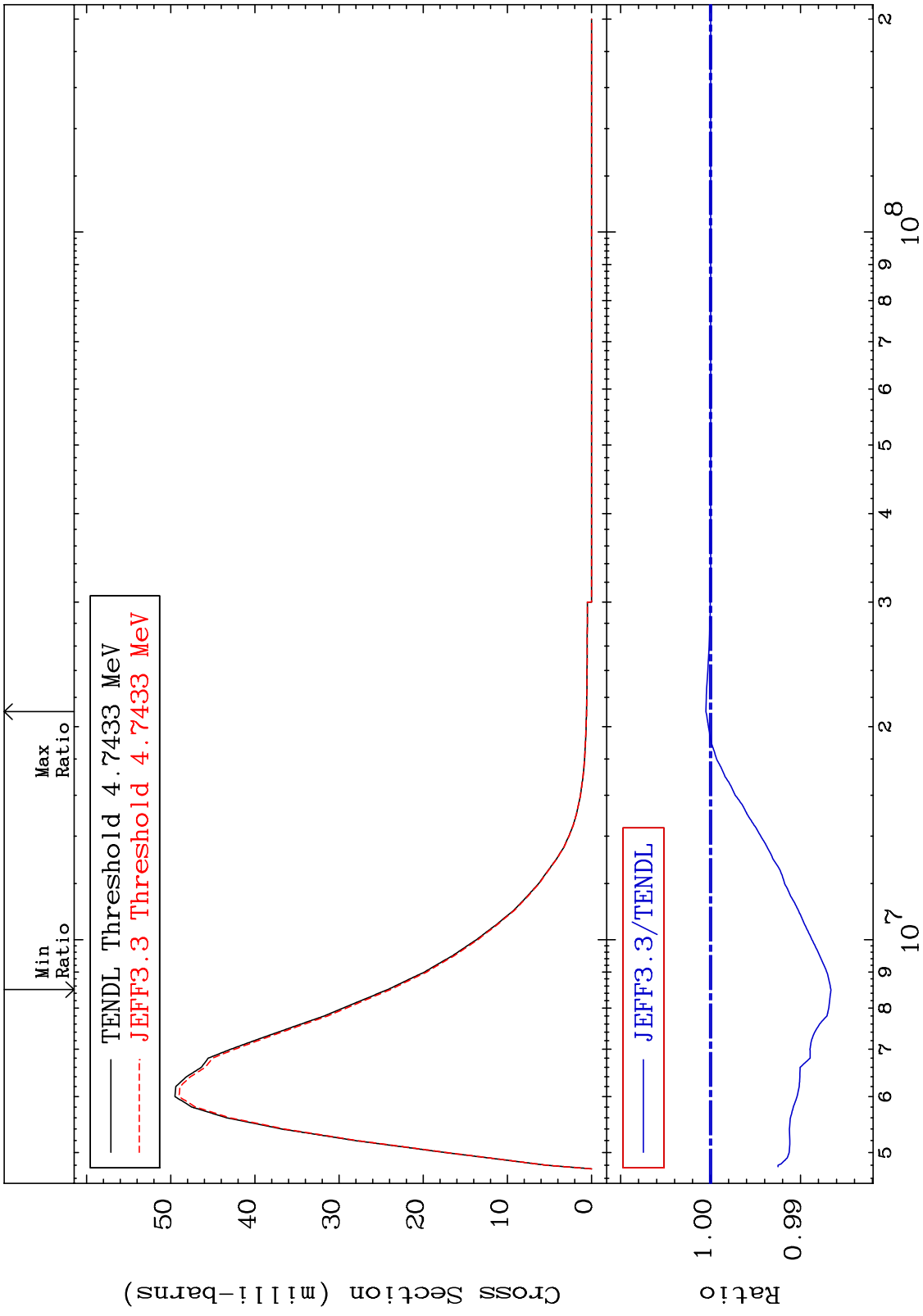
MAT 1028 MT= 58 (n,n') Level Cross Section 10-Ne-21
 -1.294 To 0.481 %



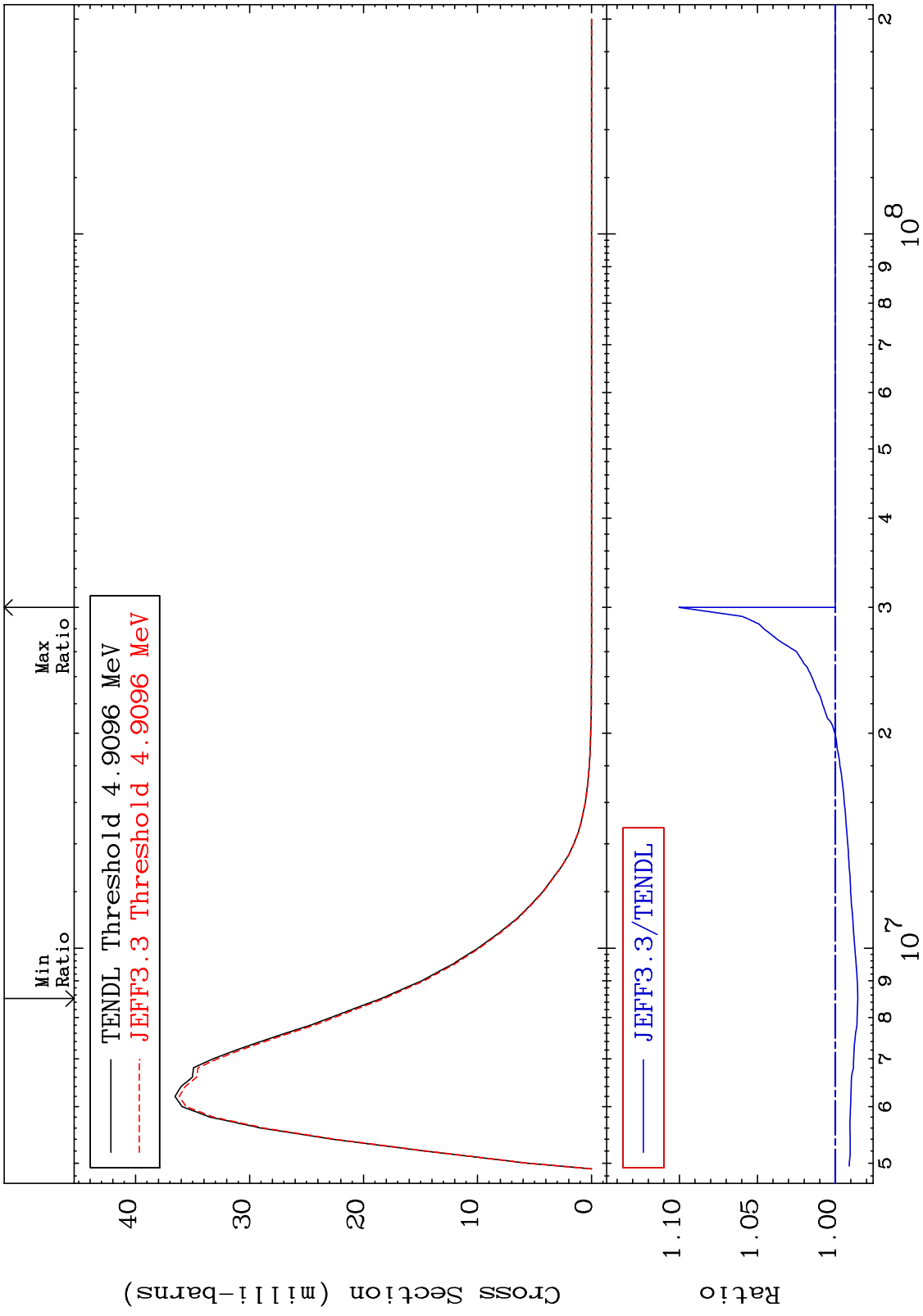
MAT 1028 MT= 59 (n,n') Level Cross Section 10-Ne-21
 -0.842 To 1.368 %



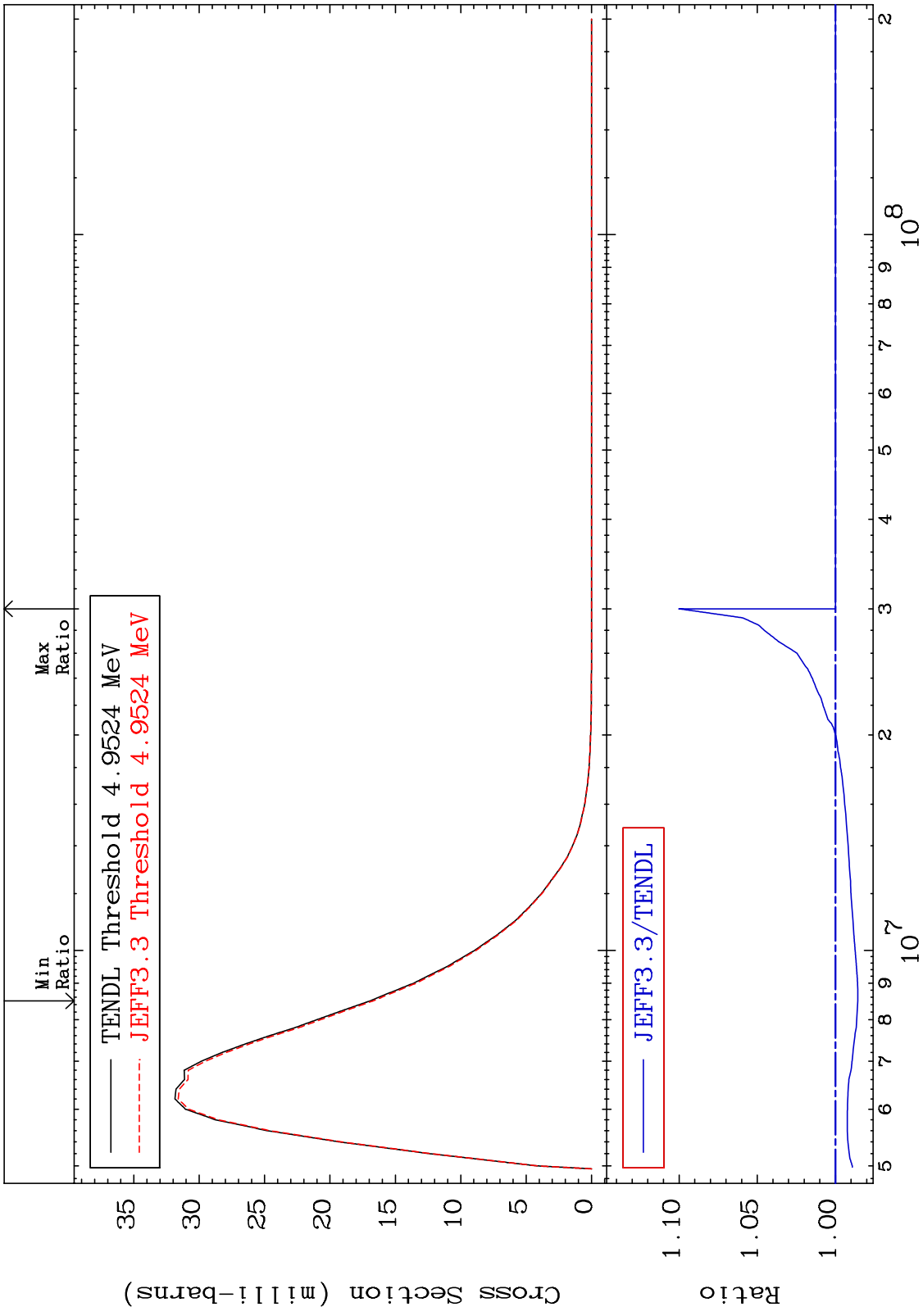
MAT 1028 MT= 60 (n,n') Level Cross Section -1.337 To 0.051 % 10-Ne-21



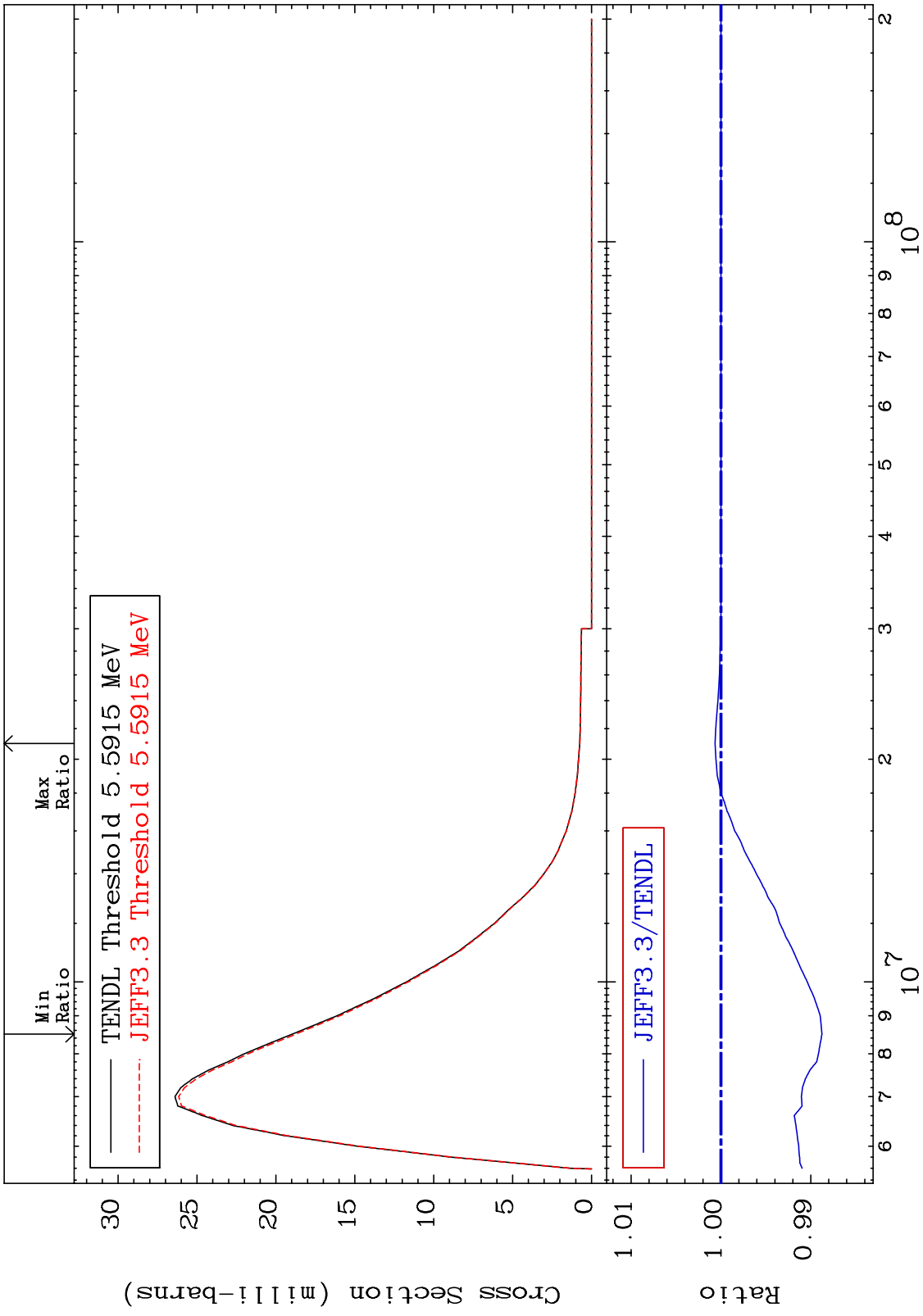
MAT 1028 MT= 61 (n,n') Level Cross Section 10-Ne-21
 -1.446 To 10.03 %



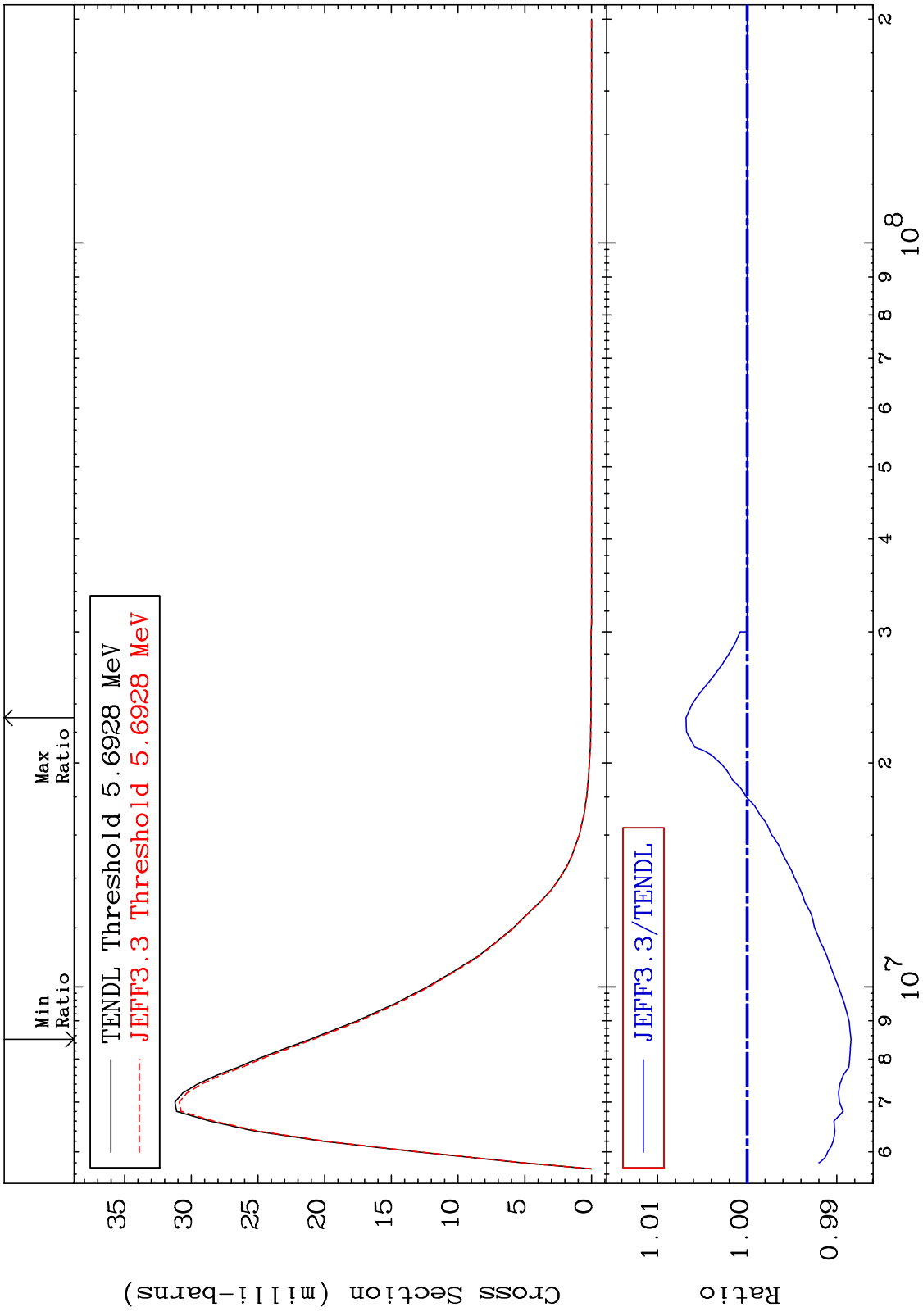
MAT 1028 MT= 62 (n,n') Level Cross Section 10-Ne-21
 -1.431 To 10.00 %



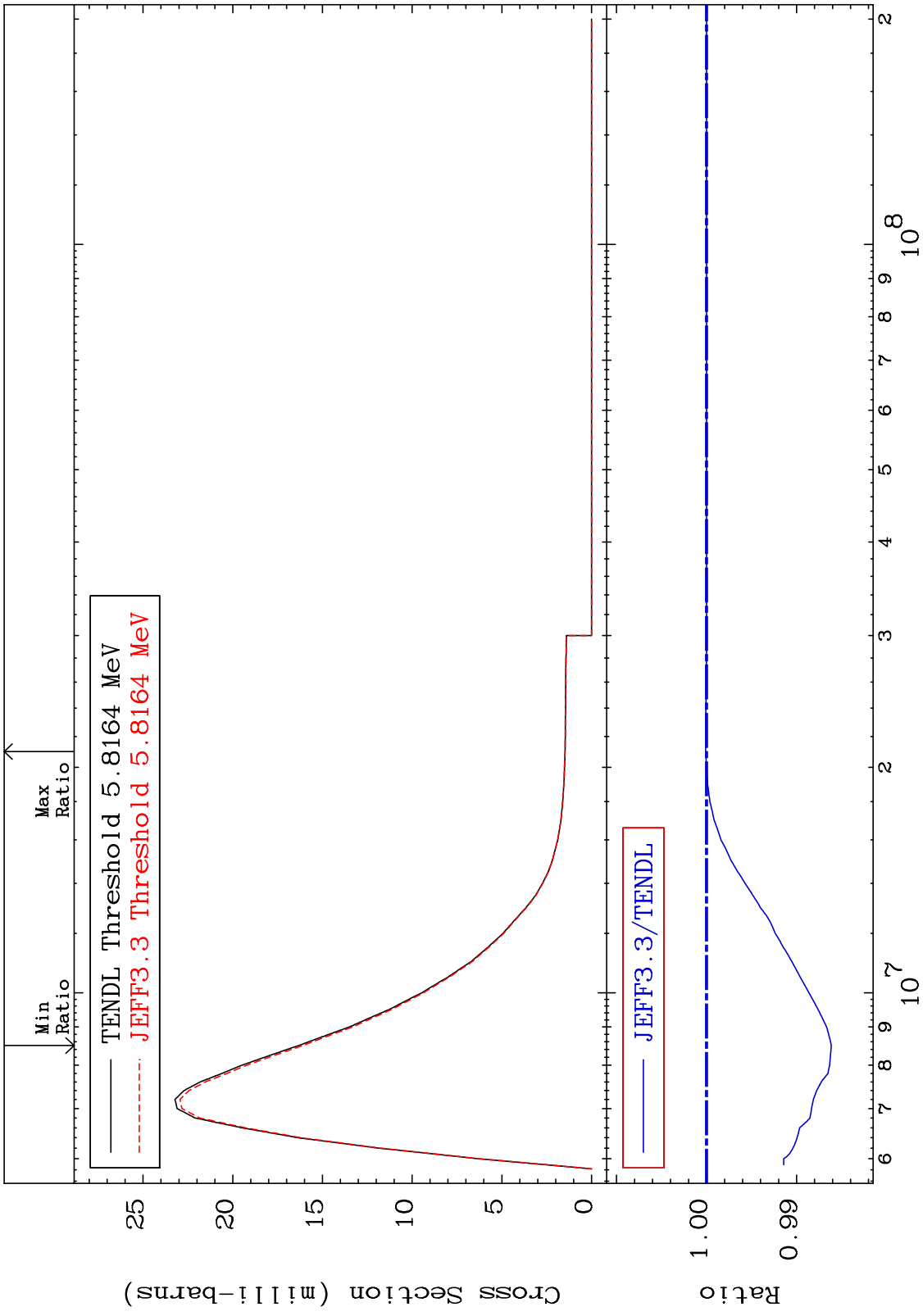
MAT 1028 MT= 63 (n,n') Level Cross Section -1.124 To 0.066 % 10-Ne-21



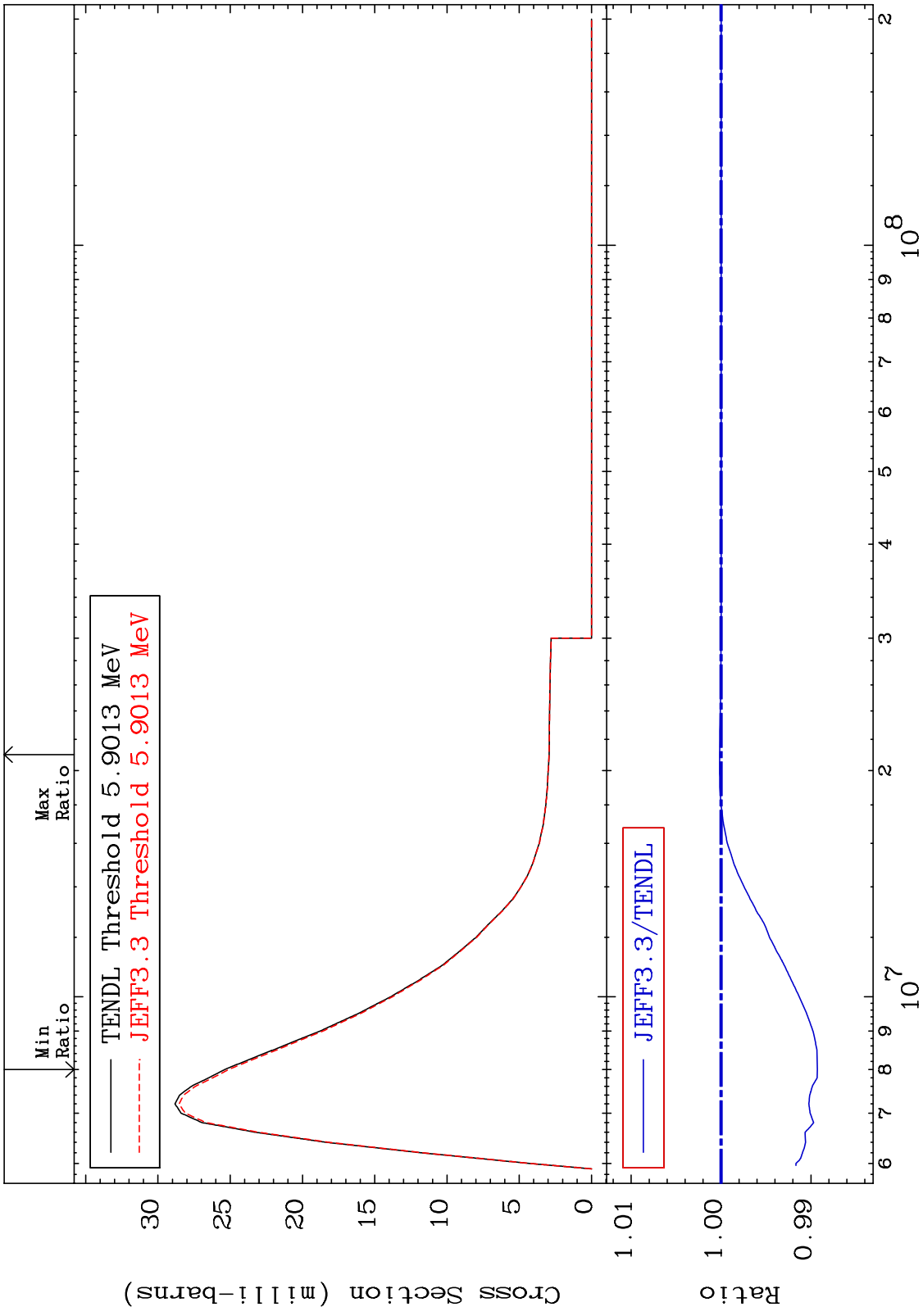
MAT 1028 MT= 64 (n,n') Level Cross Section 10-Ne-21
 -1.158 To 0.684 %



MAT 1028 MT= 65 (n,n') Level Cross Section 10-Ne-21
 -1.386 To 0.011 %



MAT 1028 MT= 66 (n,n') Level Cross Section 10-Ne-21
 -1.071 To 0.017 %

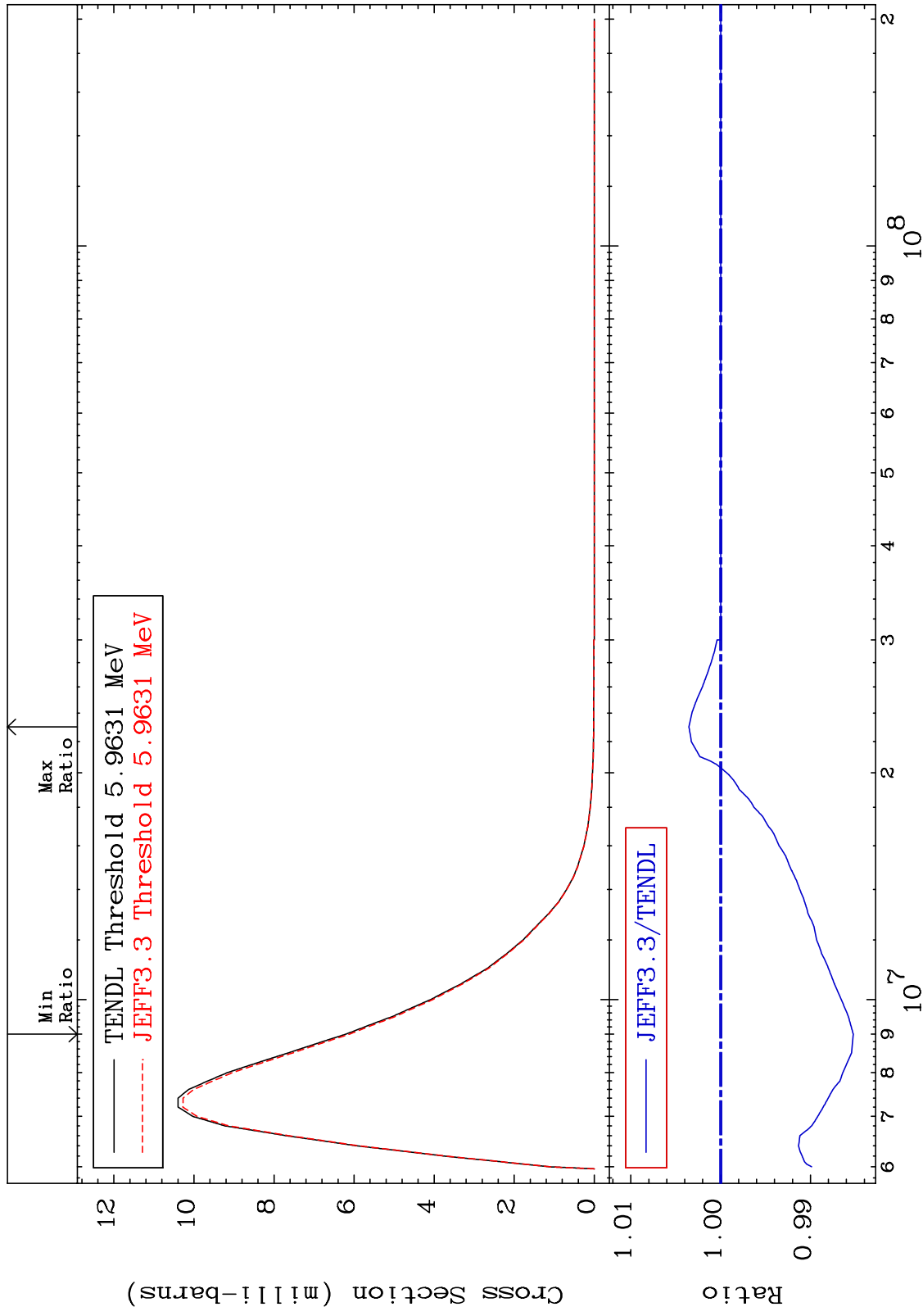


34 10-Ne-21 Incident Energy (eV)

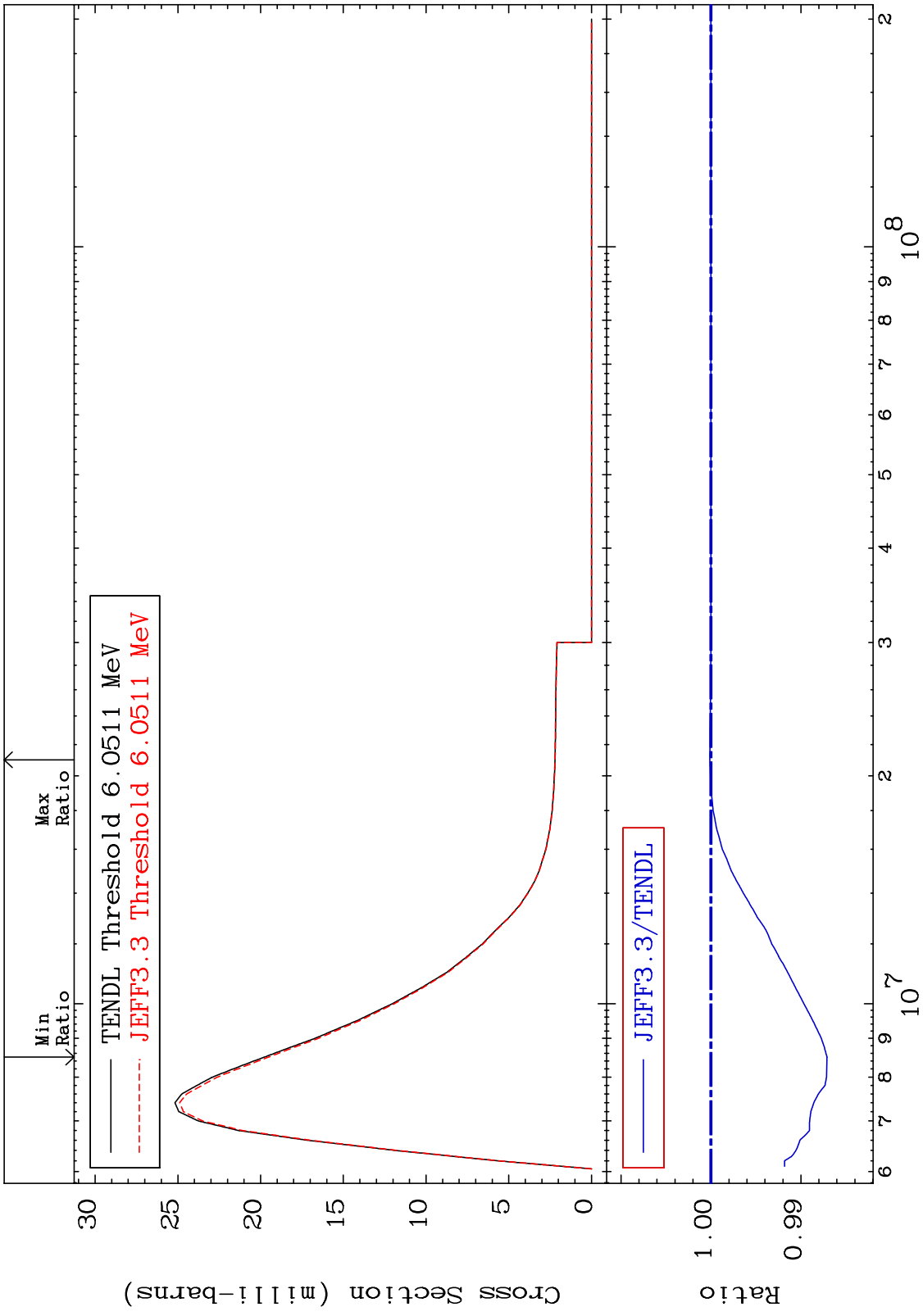
MAT 1028

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

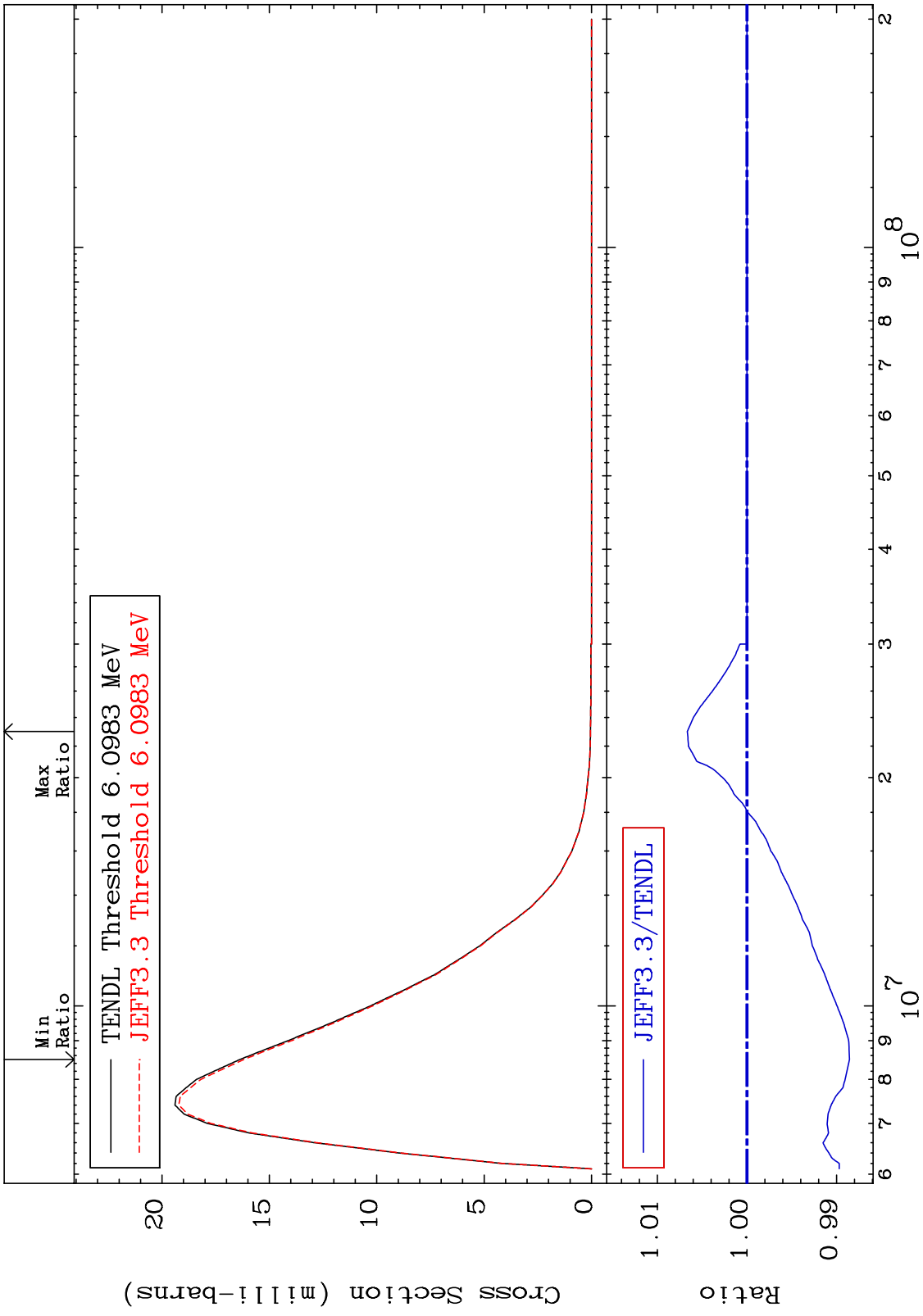
10-Ne-21
-1.476 To 0.354 %



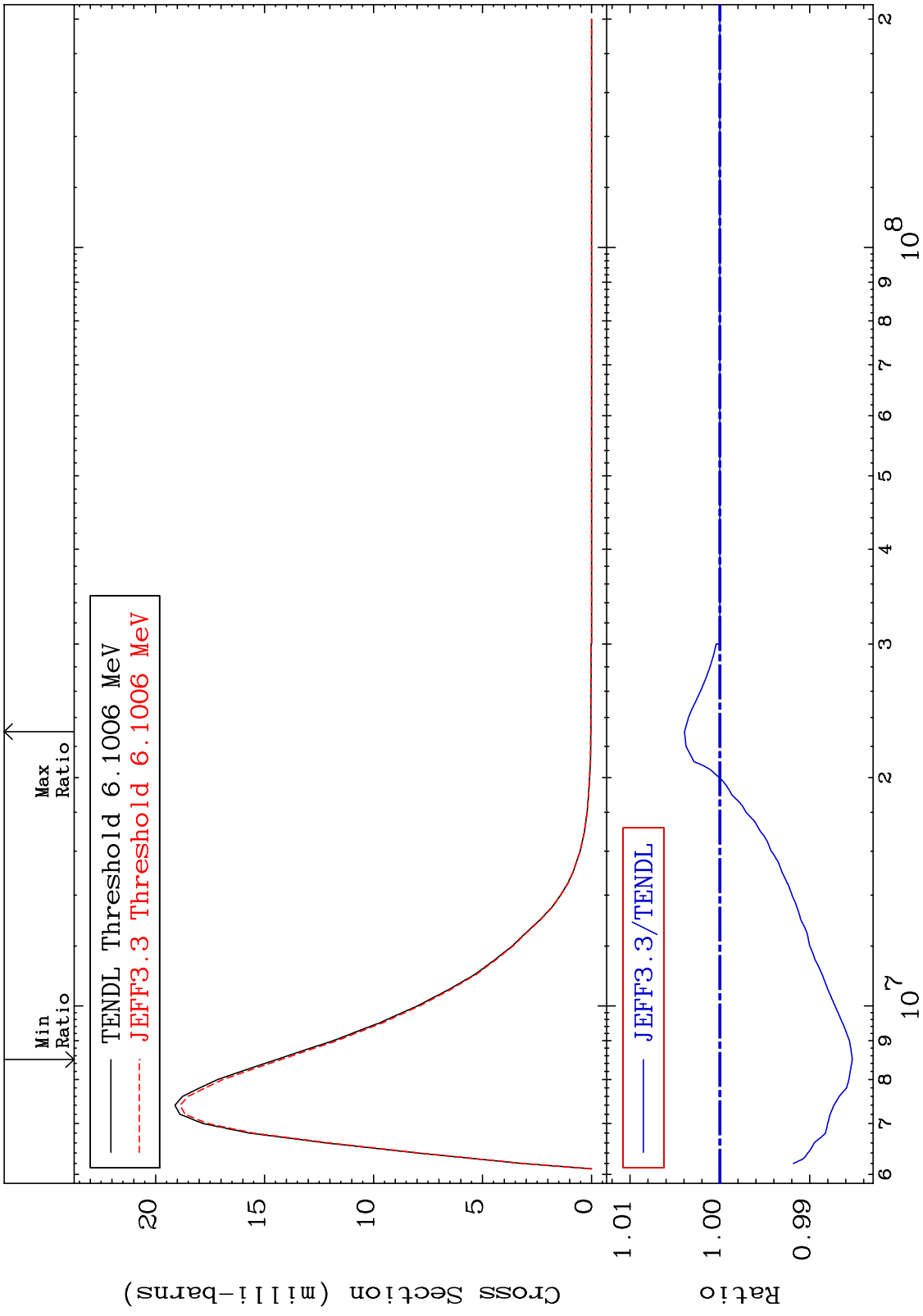
MAT 1028 MT= 68 (n,n') Level Cross Section 10-Ne-21
 -1.290 To 0.012 %



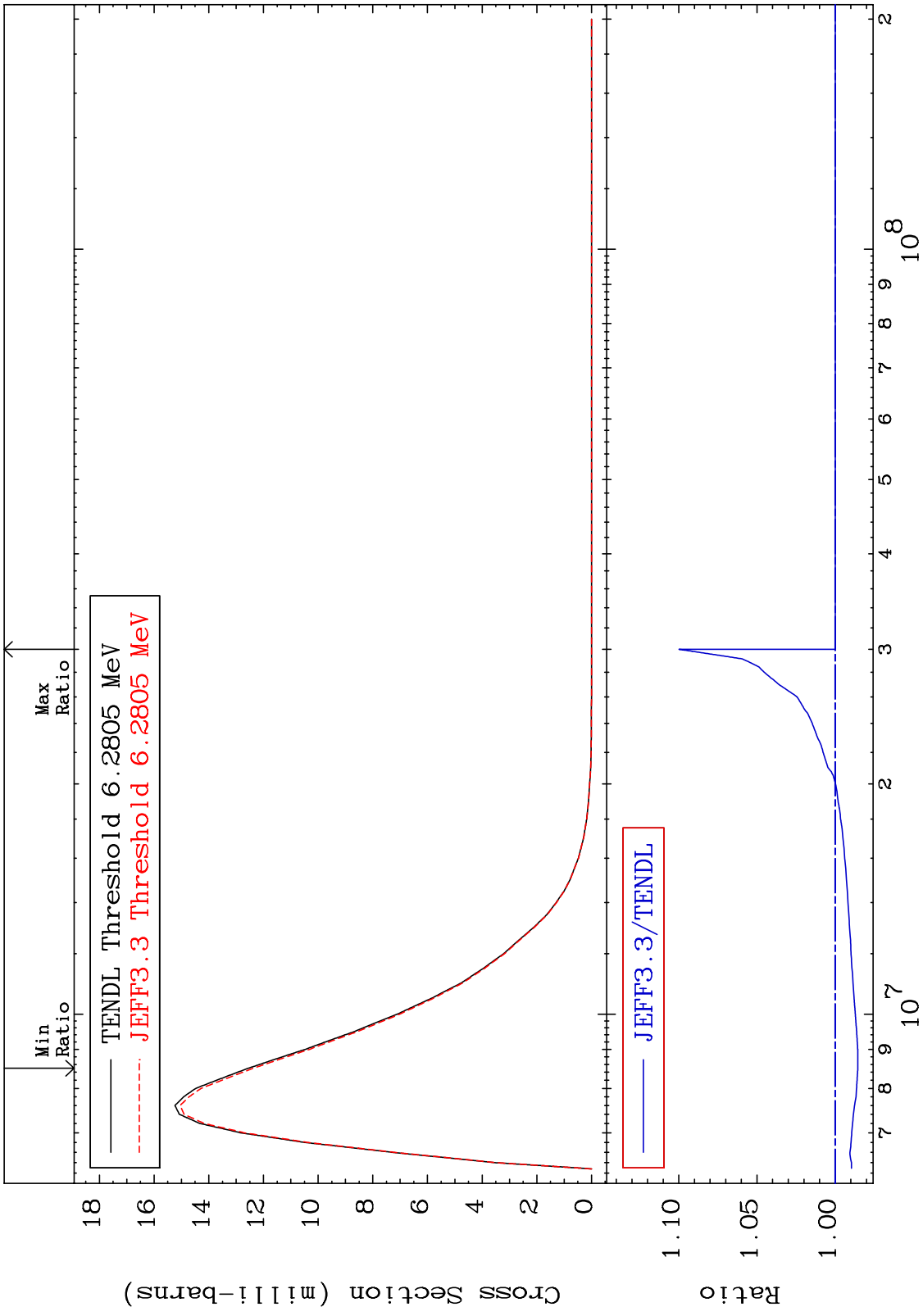
MAT 1028 MT= 69 (n,n') Level Cross Section -1.144 To 0.666 % 10-Ne-21



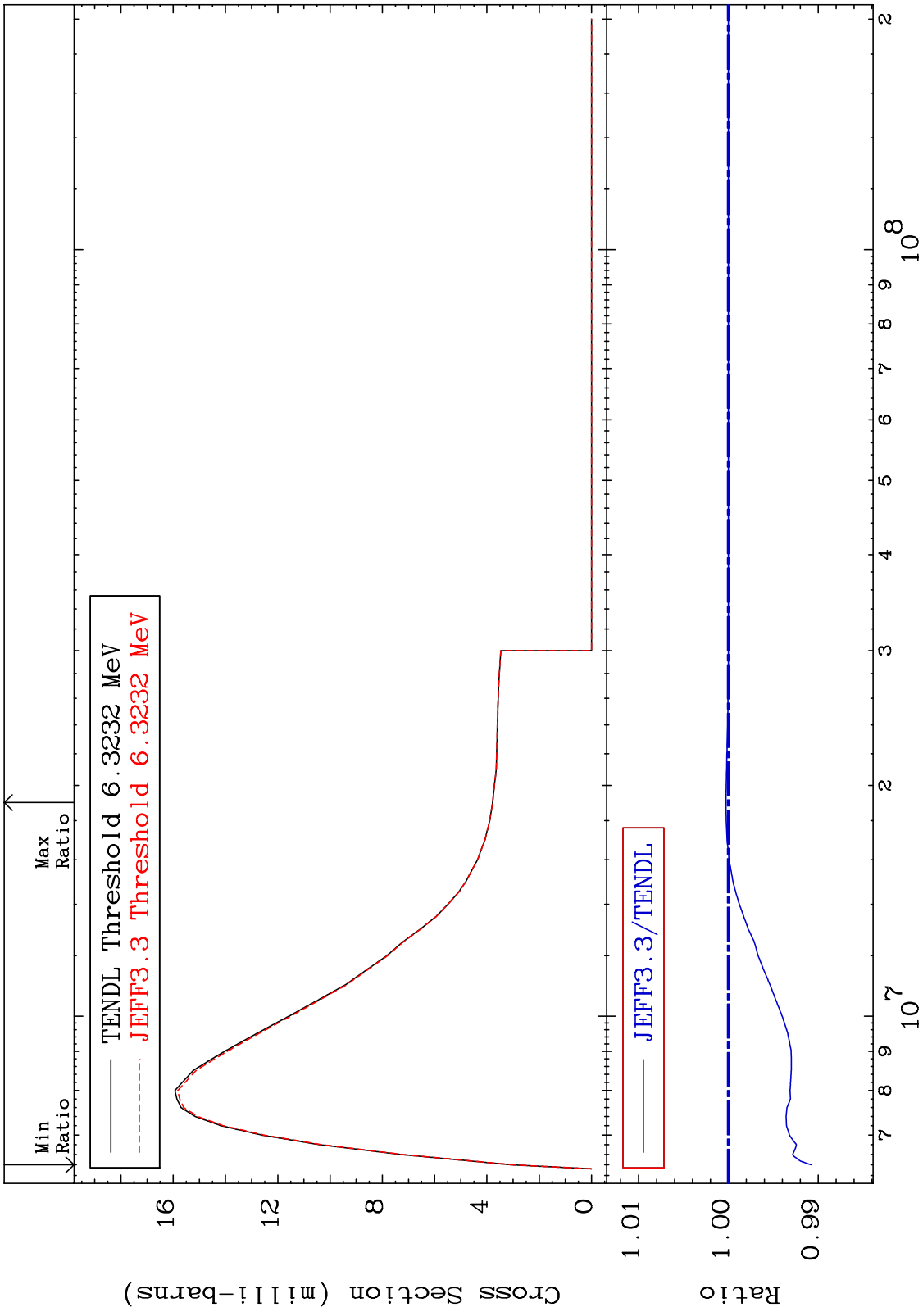
MAT 1028 MT= 70 (n,n') Level Cross Section 10-Ne-21
 -1.473 To 0.394 %



MAT 1028 MT= 71 (n,n') Level Cross Section -1.449 To 9.985 % 10-Ne-21

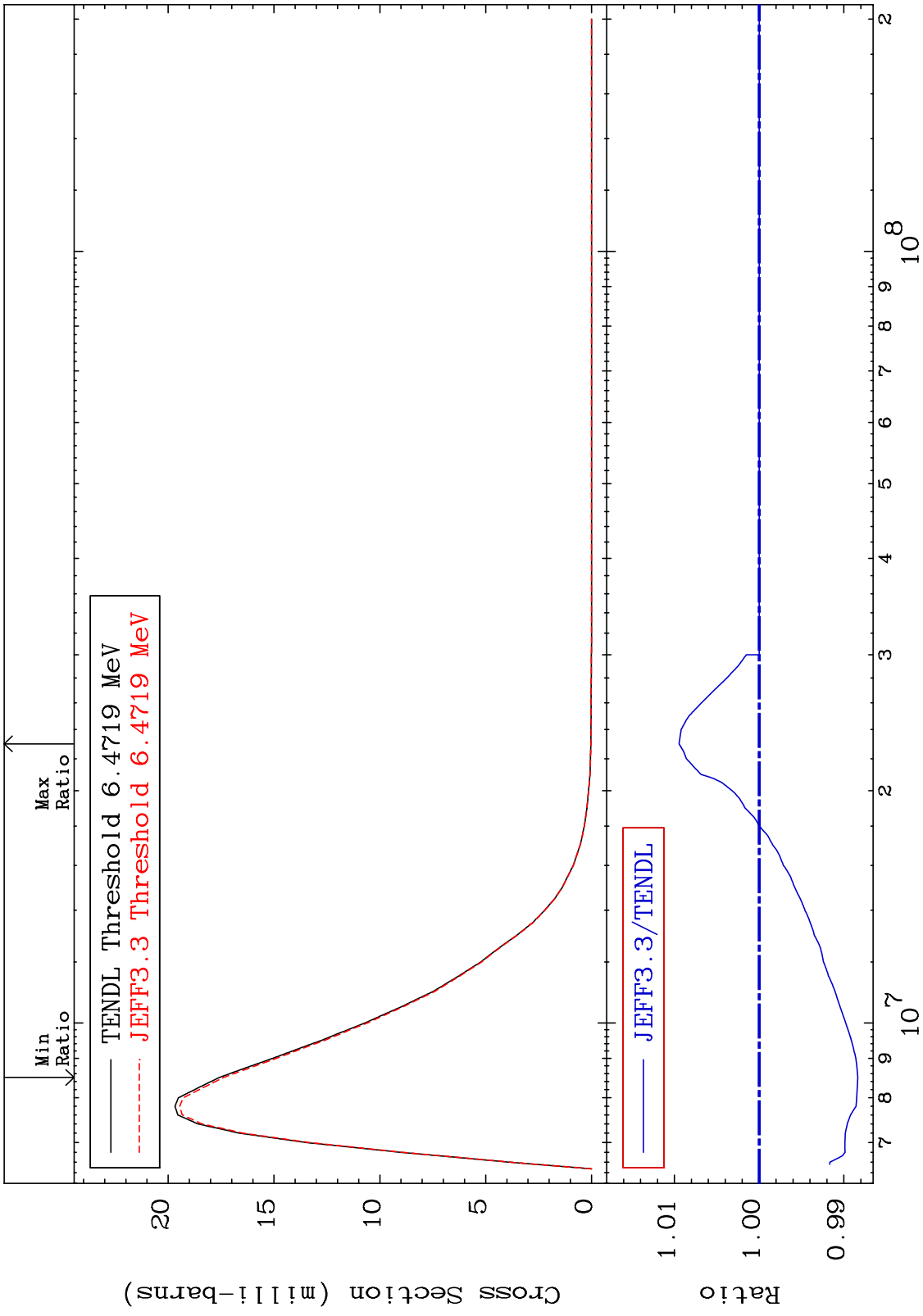


MAT 1028 MT= 72 (n,n') Level Cross Section 10-Ne-21 -0.919 To 0.028 %

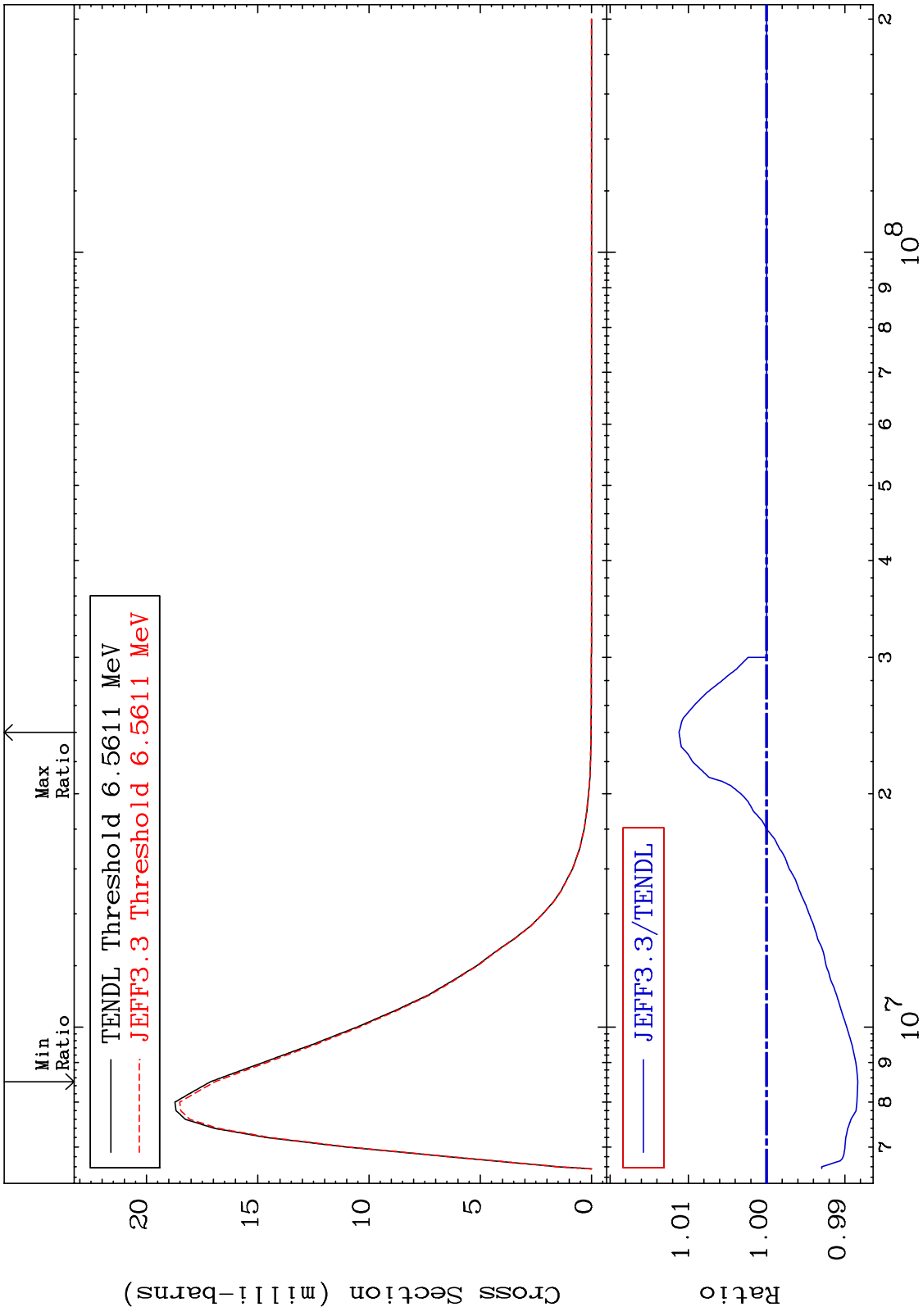


40 10-Ne-21

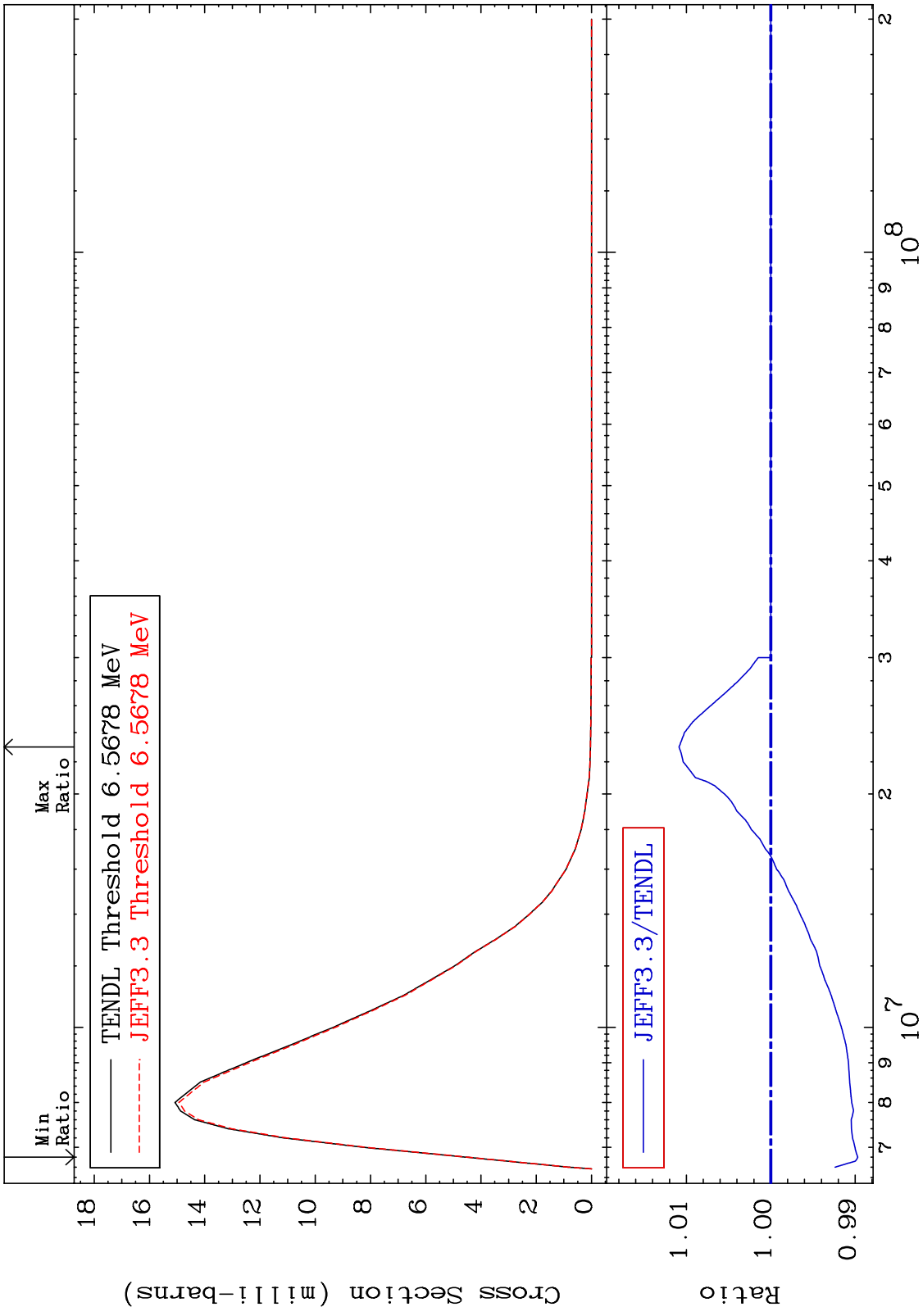
MAT 1028 MT= 73 (n,n') Level Cross Section 10-Ne-21
 -1.165 To 0.946 %



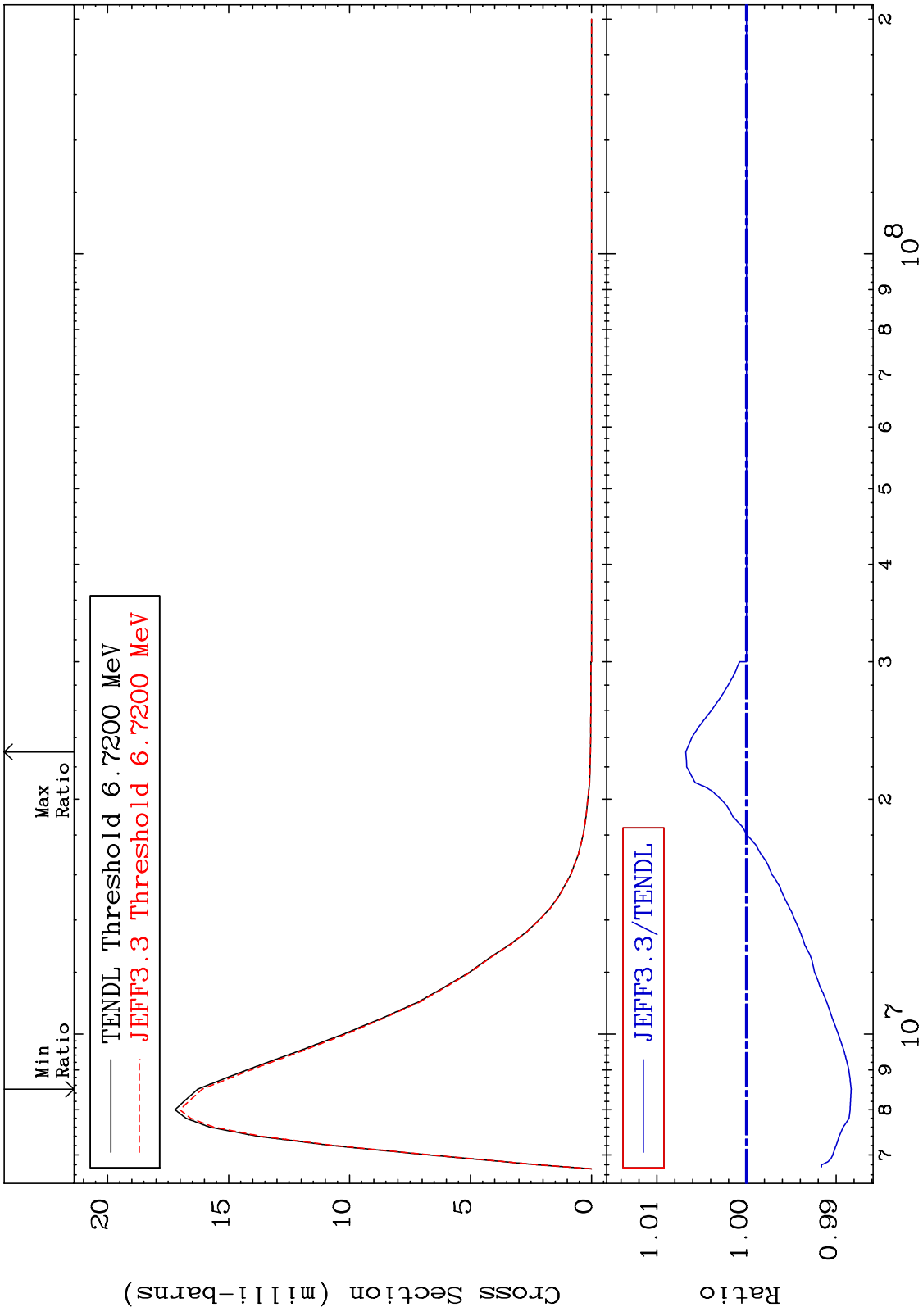
MAT 1028 MT= 74 (n,n') Level Cross Section 10-Ne-21
 -1.166 To 1.118 %



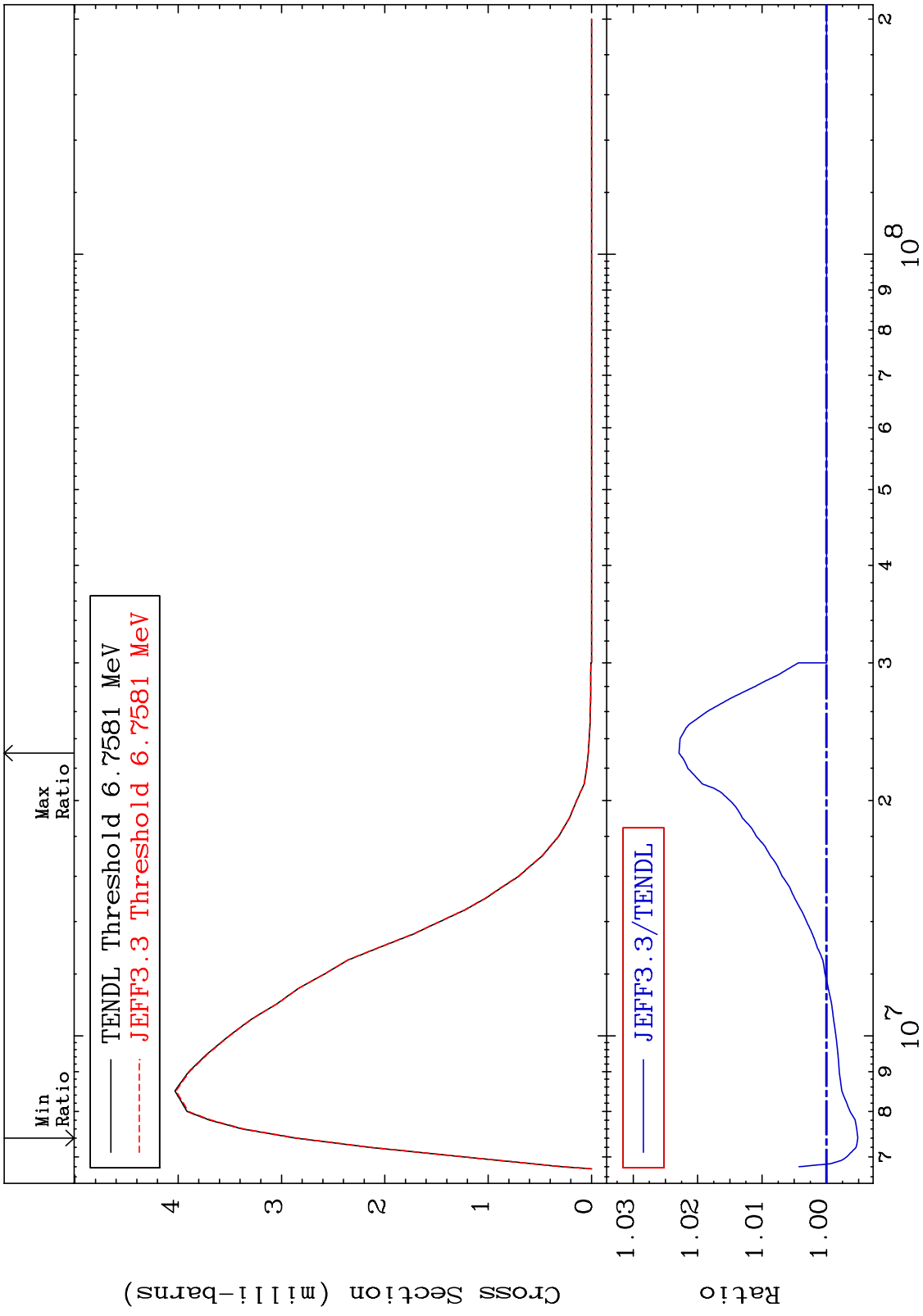
MAT 1028 MT= 75 (n,n') Level Cross Section -1.031 To 1.087 % 10-Ne-21



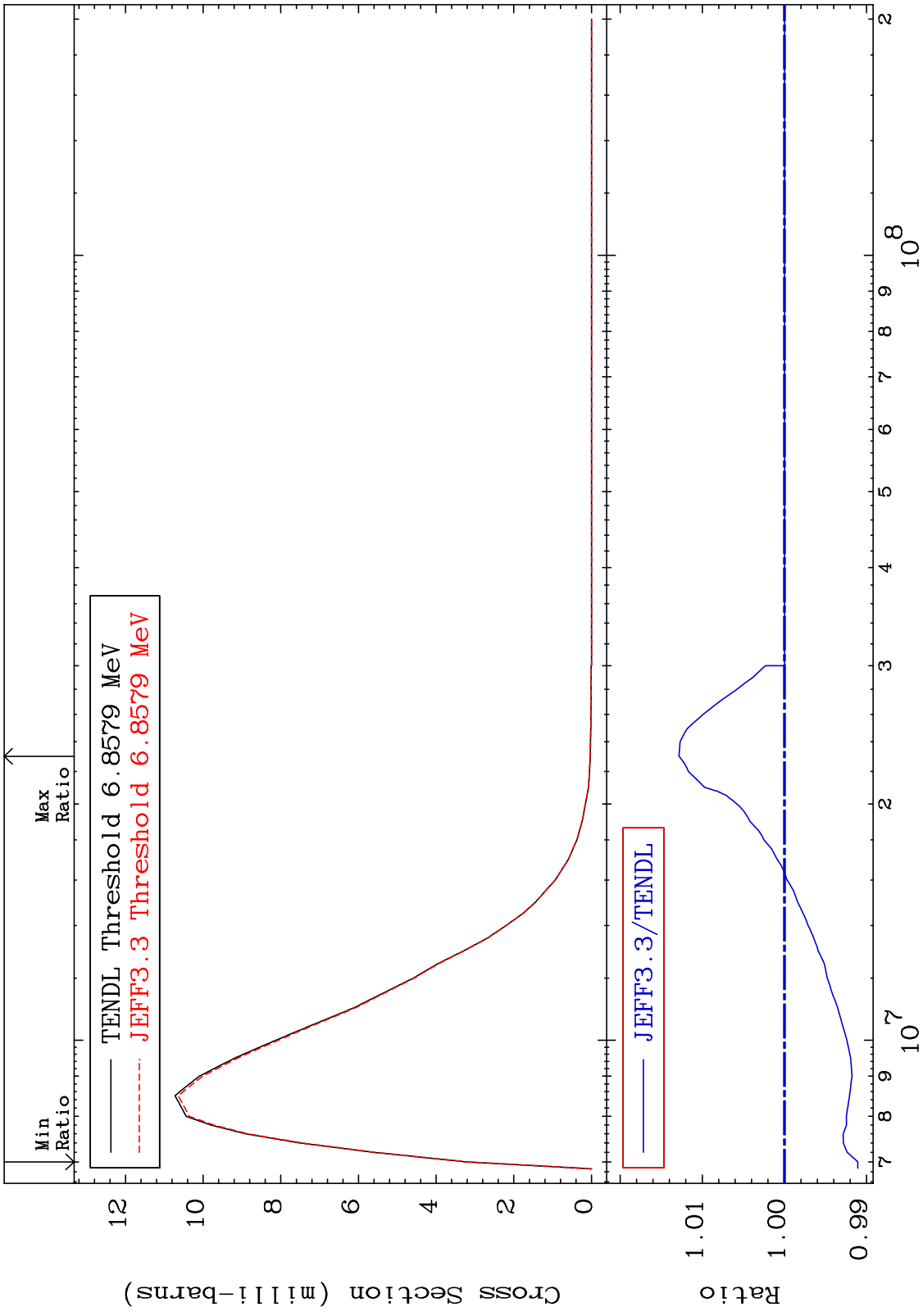
MAT 1028 MT= 76 (n,n') Level Cross Section -1.167 To 0.679 % 10-Ne-21



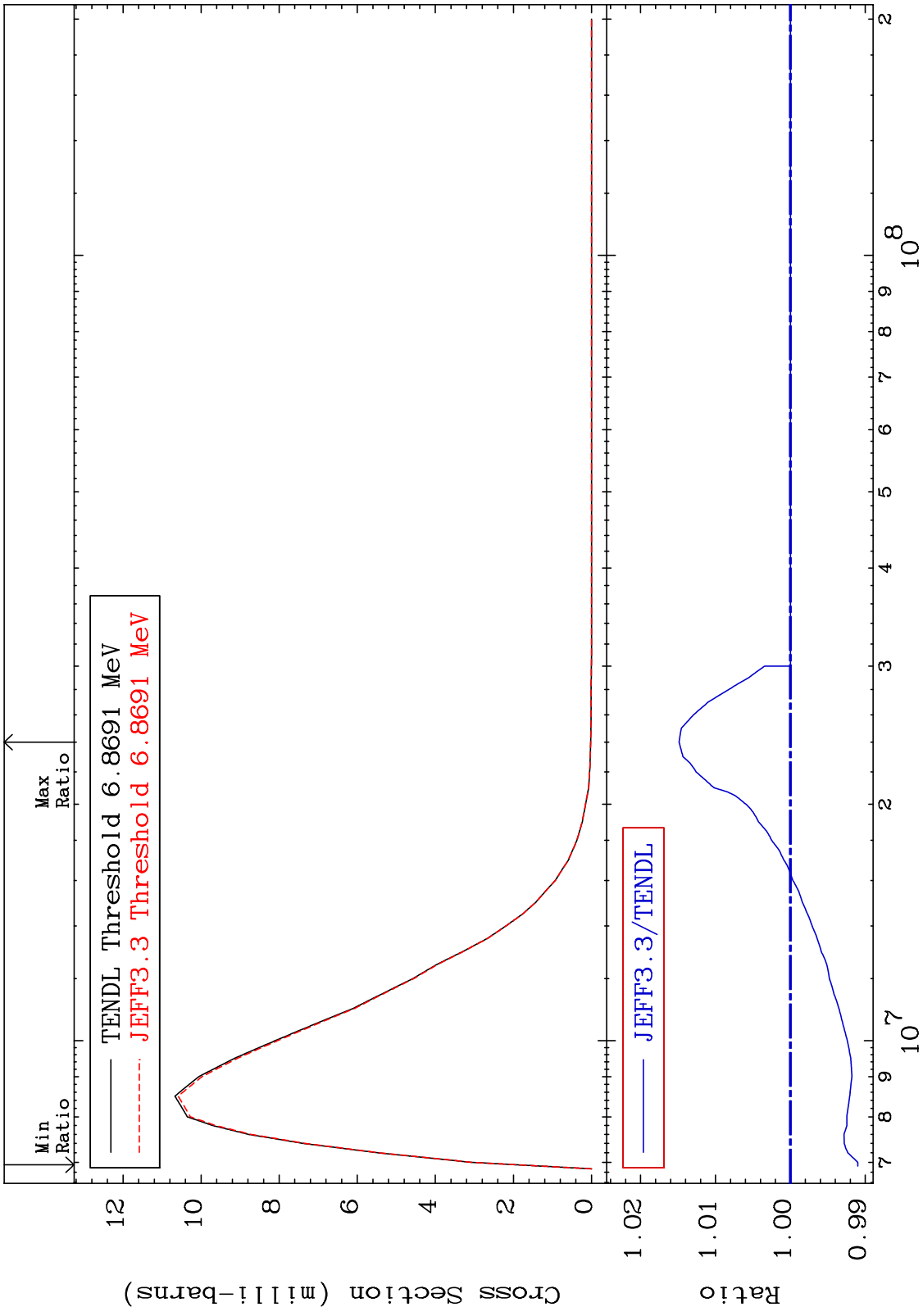
MAT 1028 MT= 77 (n,n') Level Cross Section -0.488 To 2.288 % 10-Ne-21



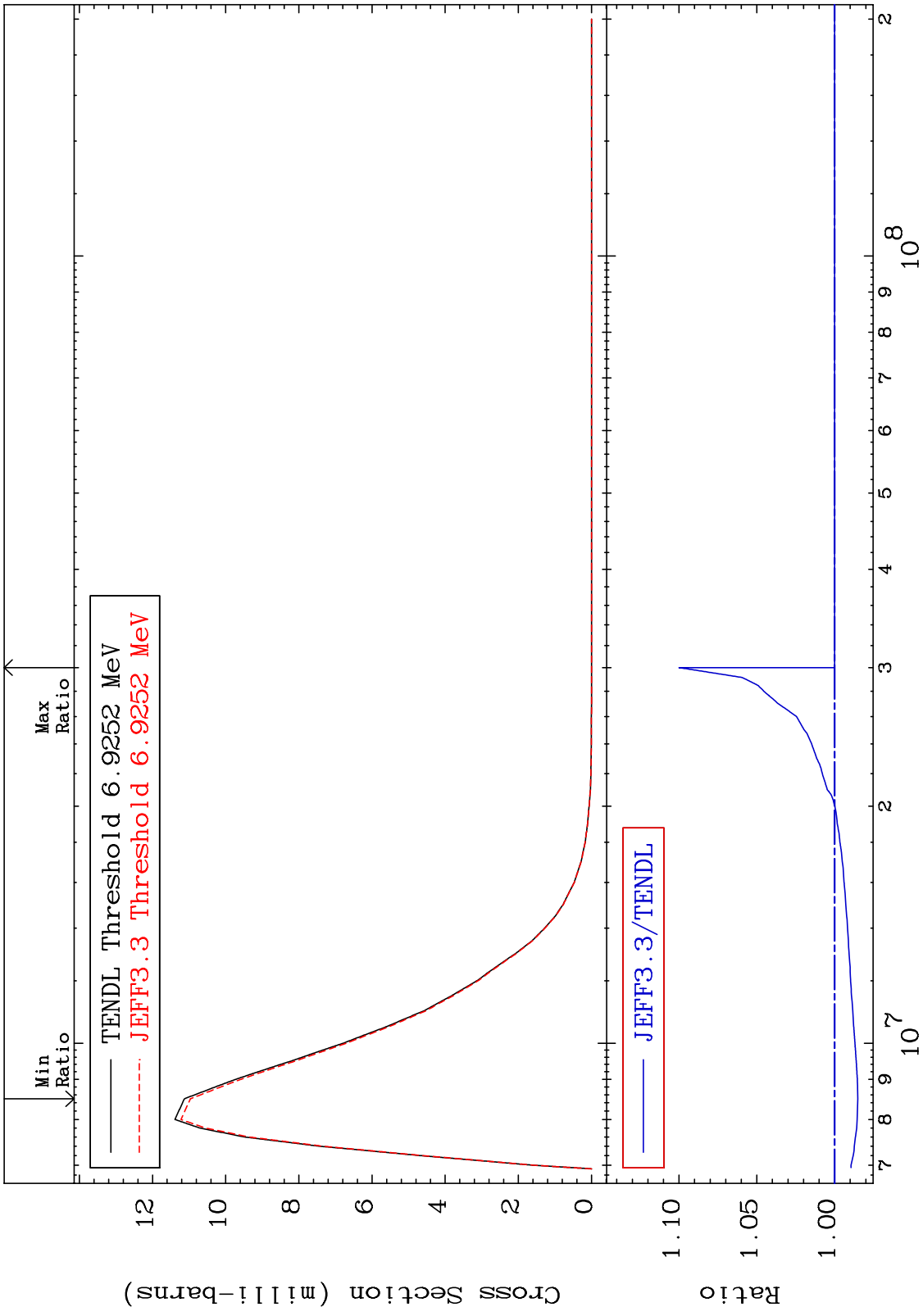
MAT 1028 MT= 78 (n,n') Level Cross Section 10-Ne-21 -0.893 To 1.282 %



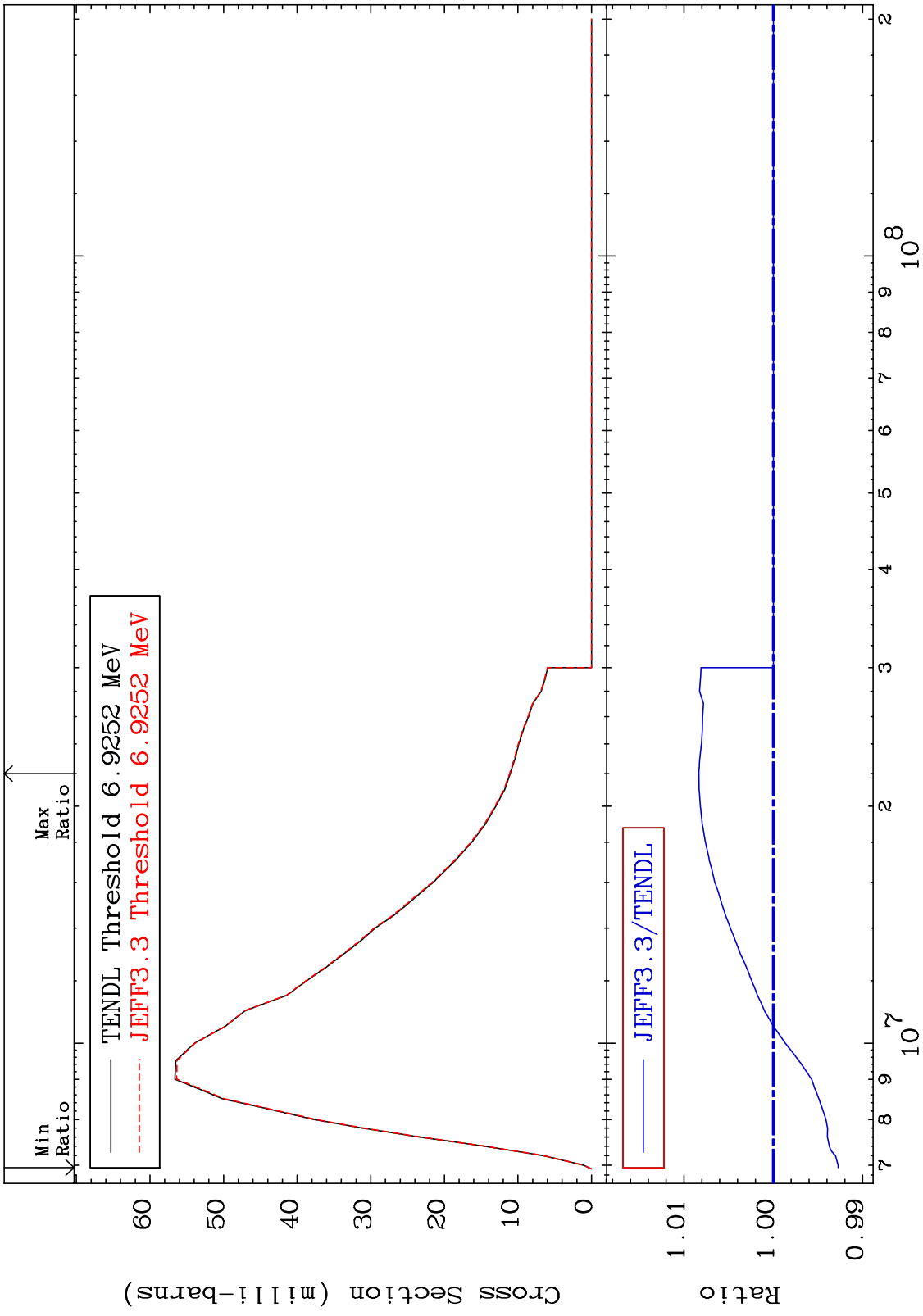
MAT 1028 MT= 79 (n,n') Level Cross Section 10-Ne-21
 -0.900 To 1.487 %



MAT 1028 MT= 80 (n,n') Level Cross Section -1.490 To 9.997 % 10-Ne-21



MAT 1028 (n,n') Continuum Cross Section 10-Ne-21
 -0.724 To 0.834 %



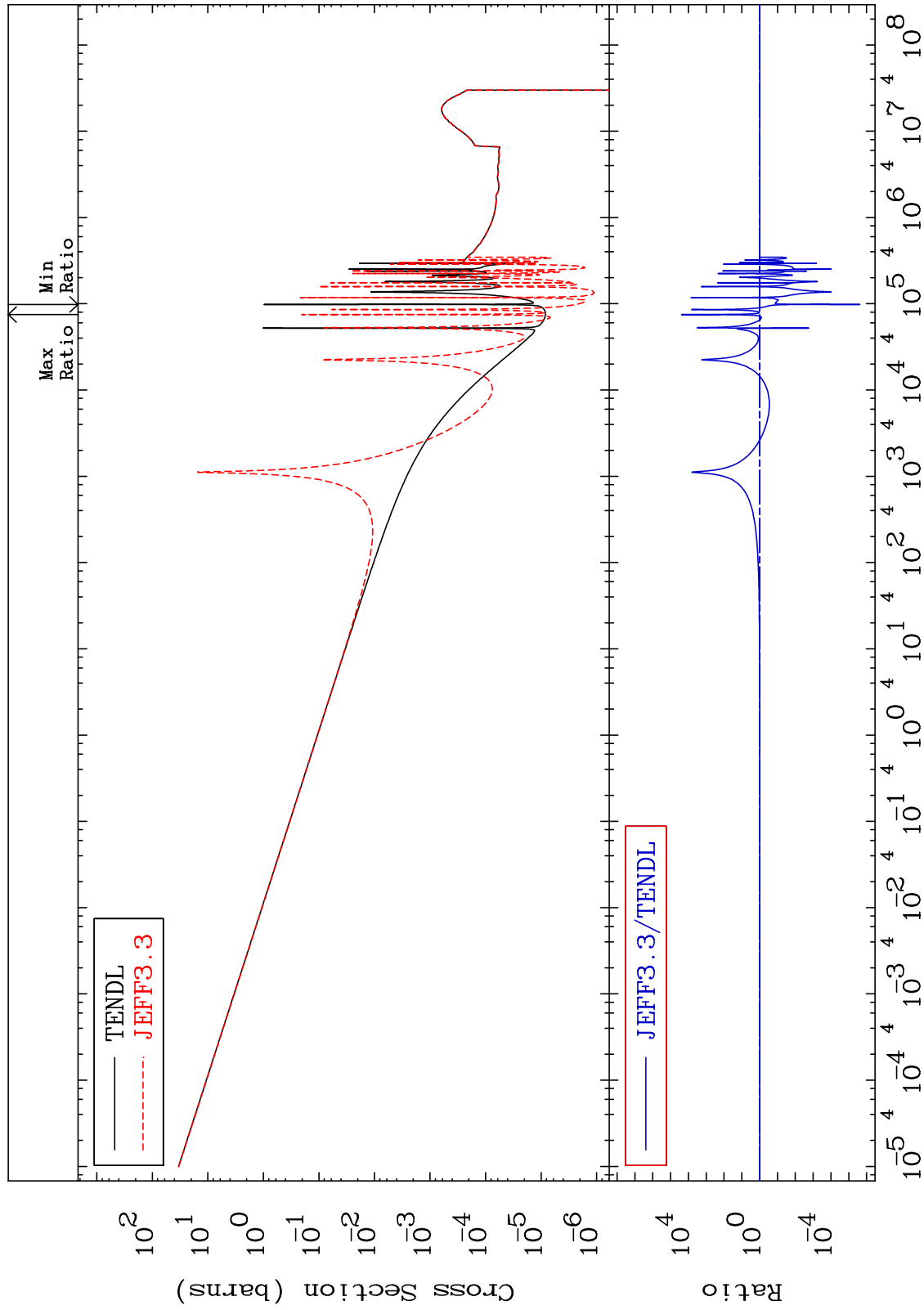
MAT 1028

(n, γ)

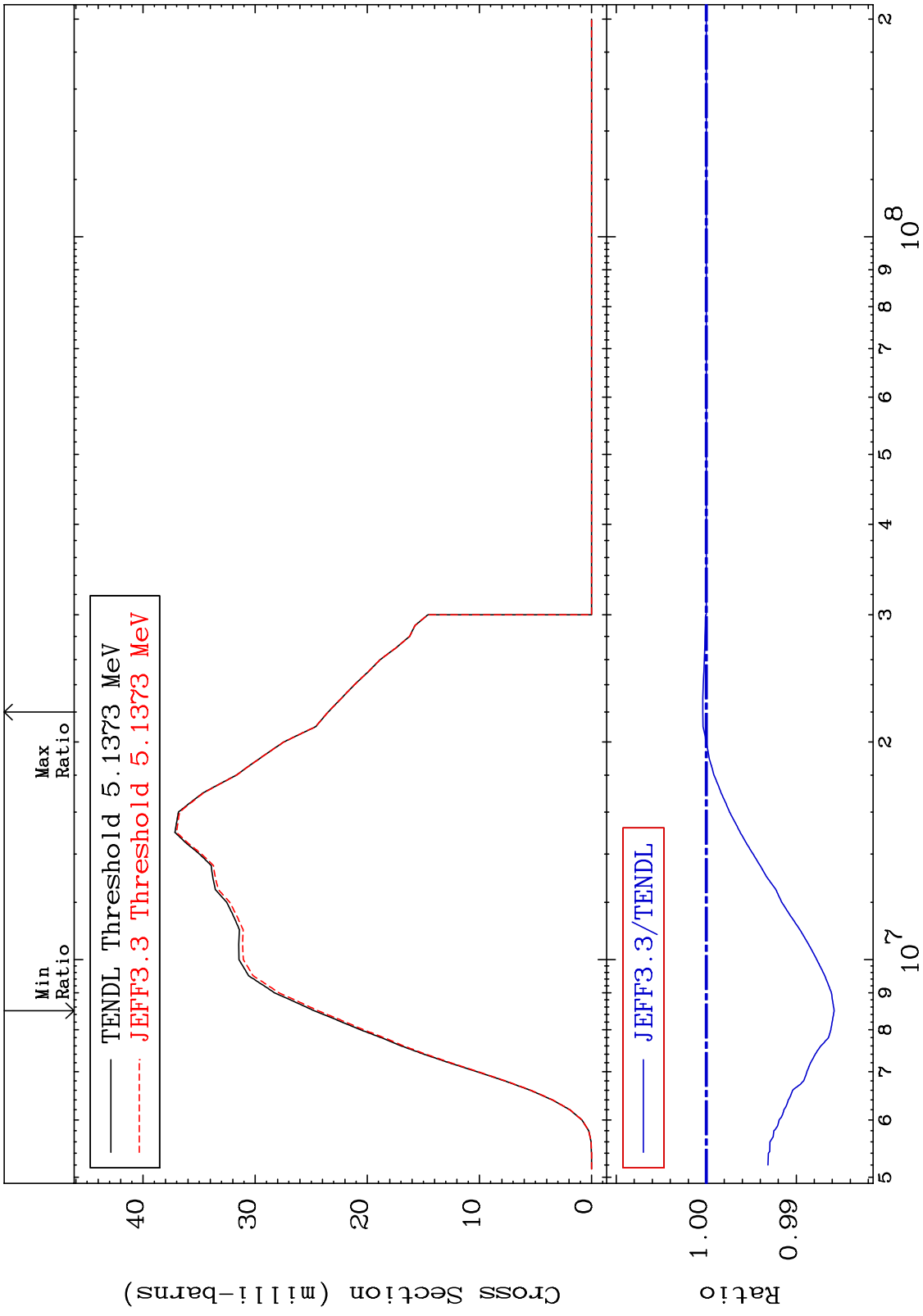
10-Ne-21

Cross Section

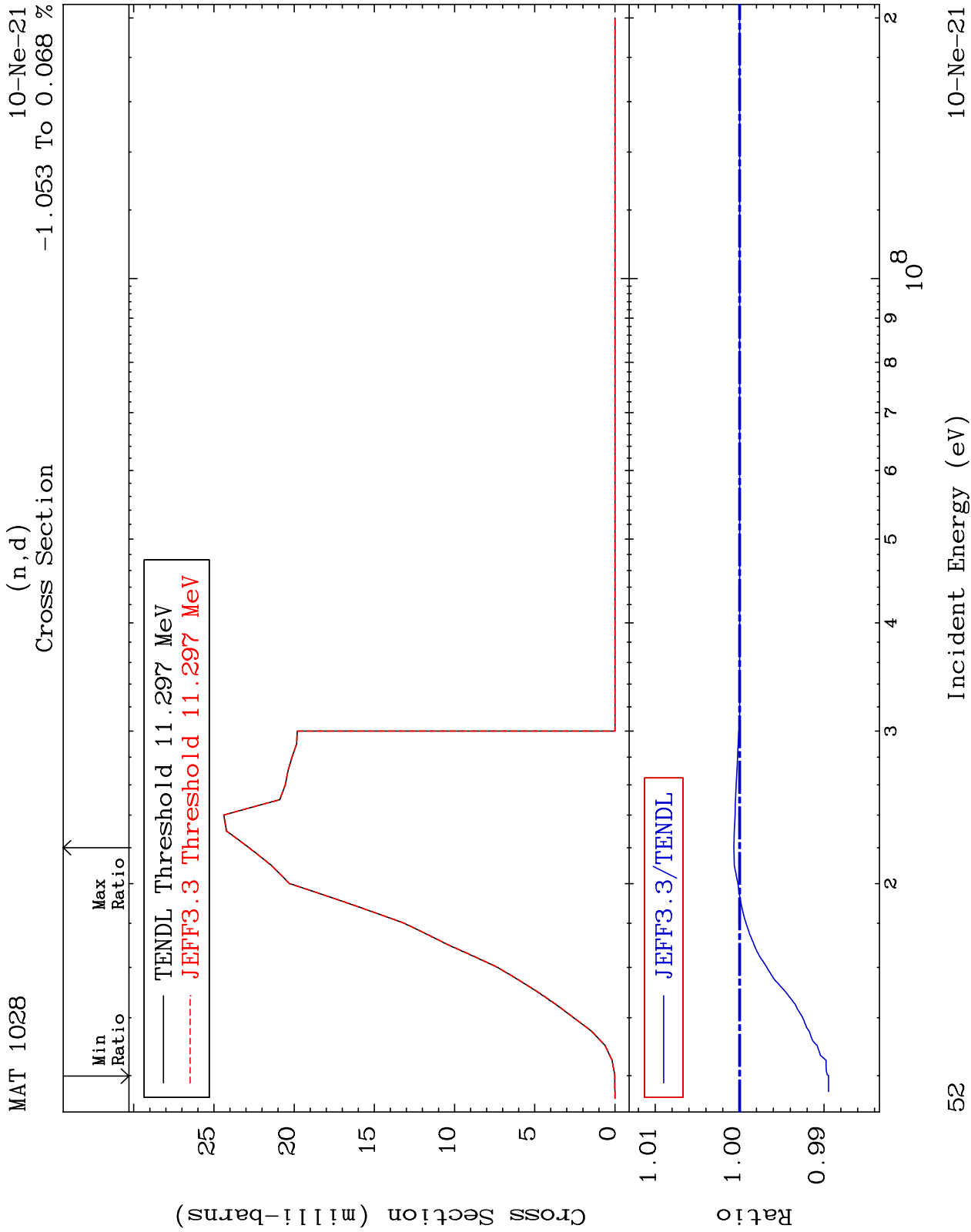
-100.0 To 9999. %



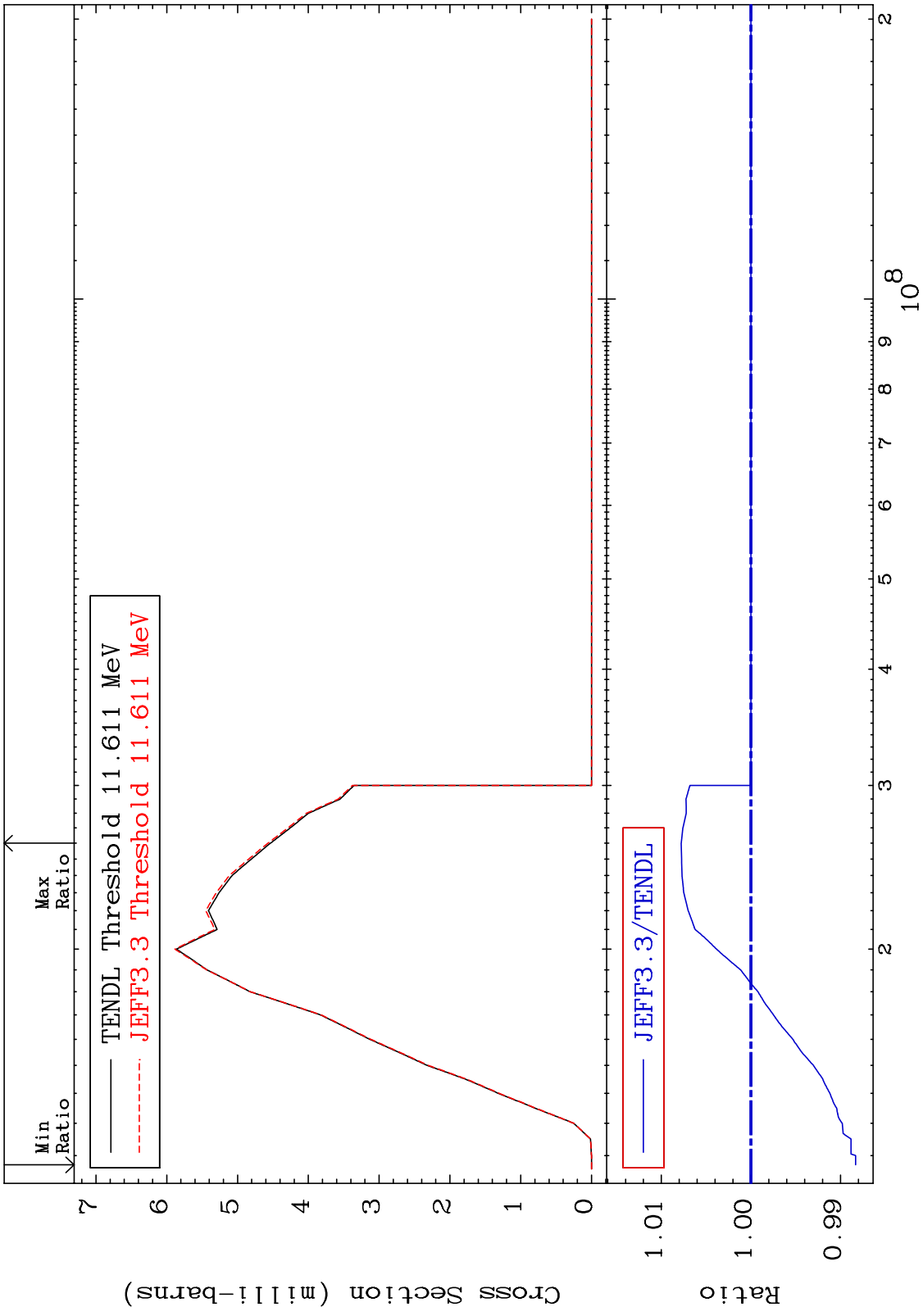
MAT 1028 $^{10}\text{Ne-21}$ (n,p) Cross Section -1.421 To 0.040 %



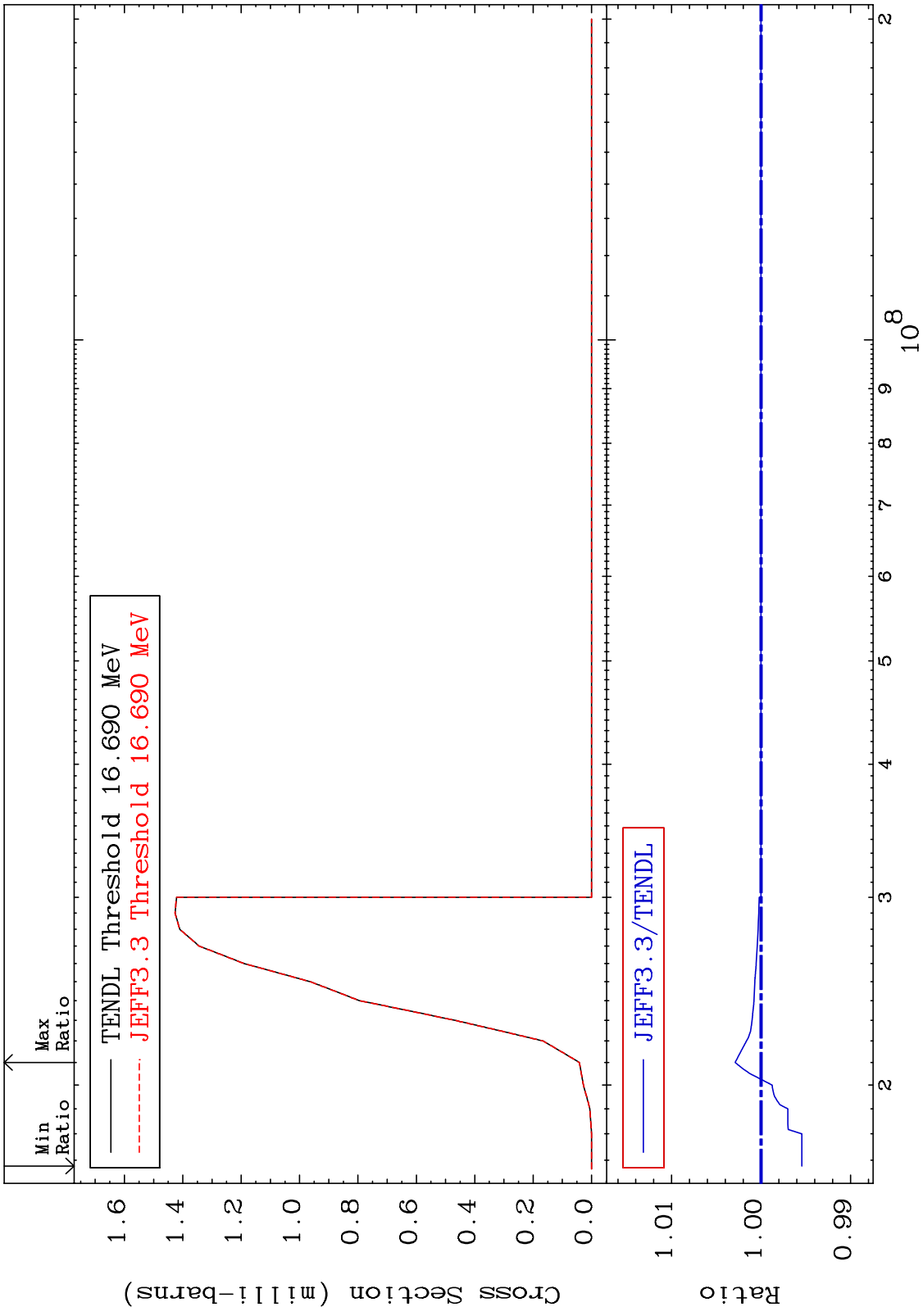
51 $^{10}\text{Ne-21}$



MAT 1028 (n,t) 10-Ne-21
 Cross Section -1.169 To 0.778 %



MAT 1028 (n, He-3) 10-Ne-21
 Cross Section -0.455 To 0.290 %



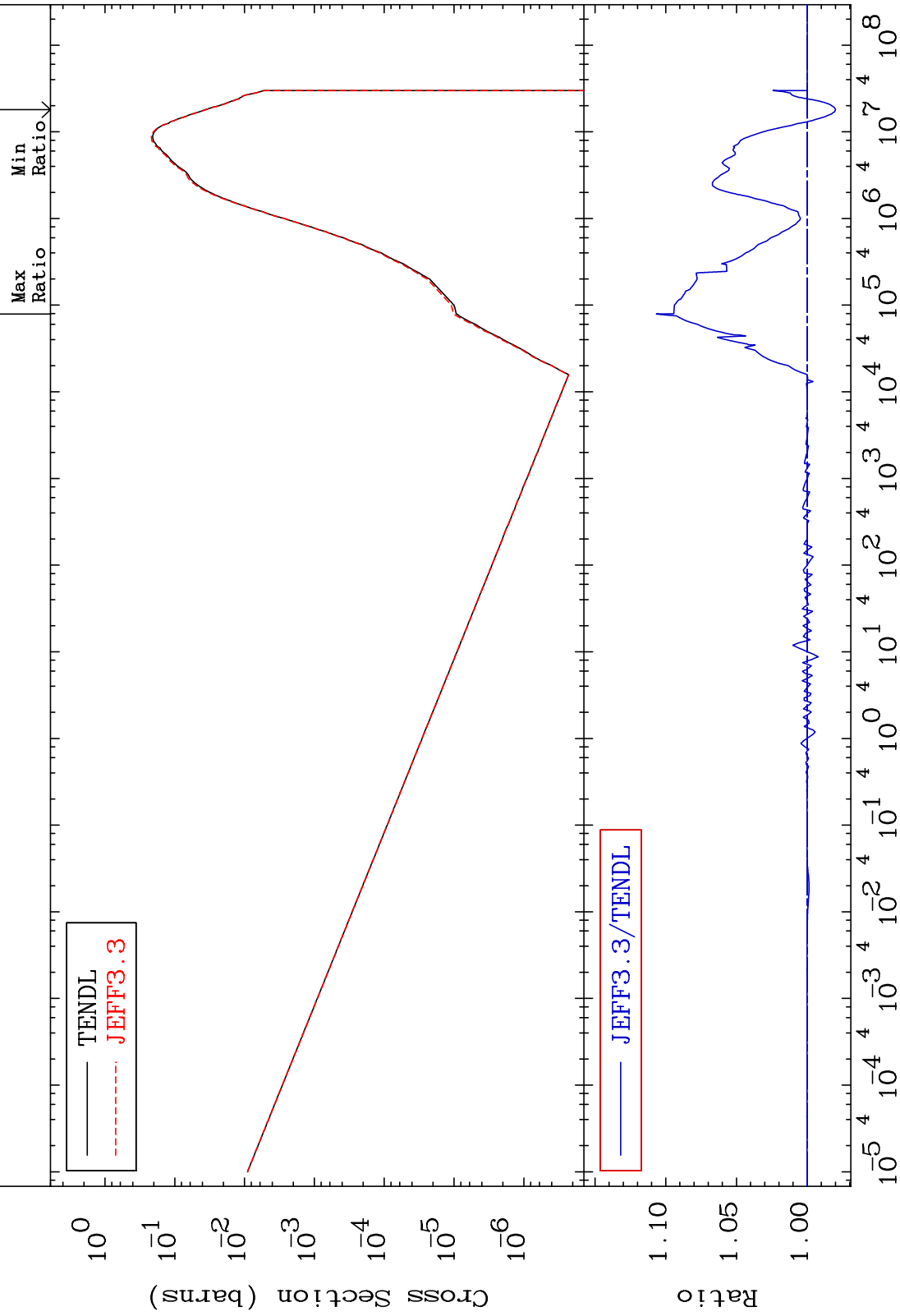
MAT 1028

(n, α)

10-Ne-21

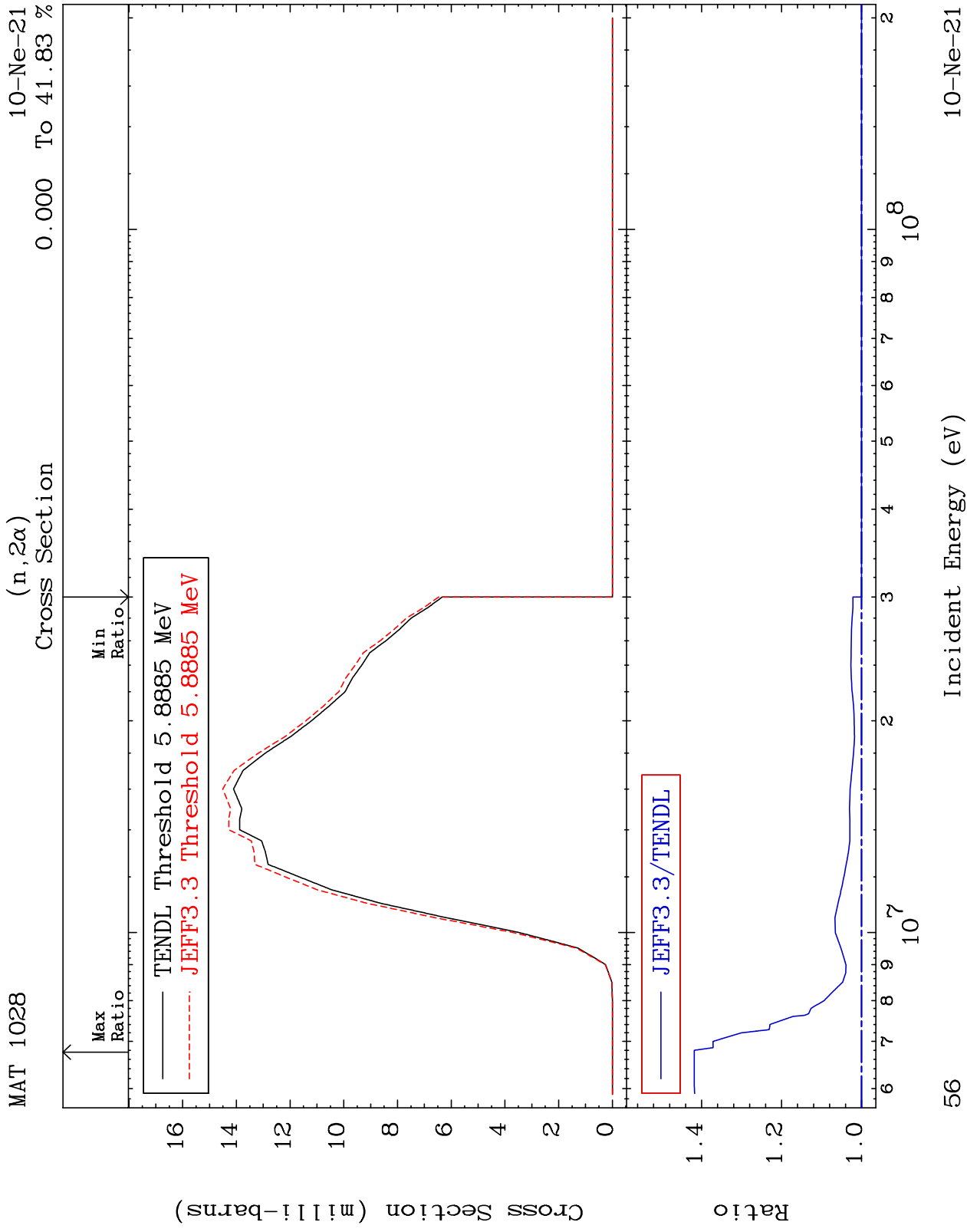
Cross Section

-2.003 To 10.66 %

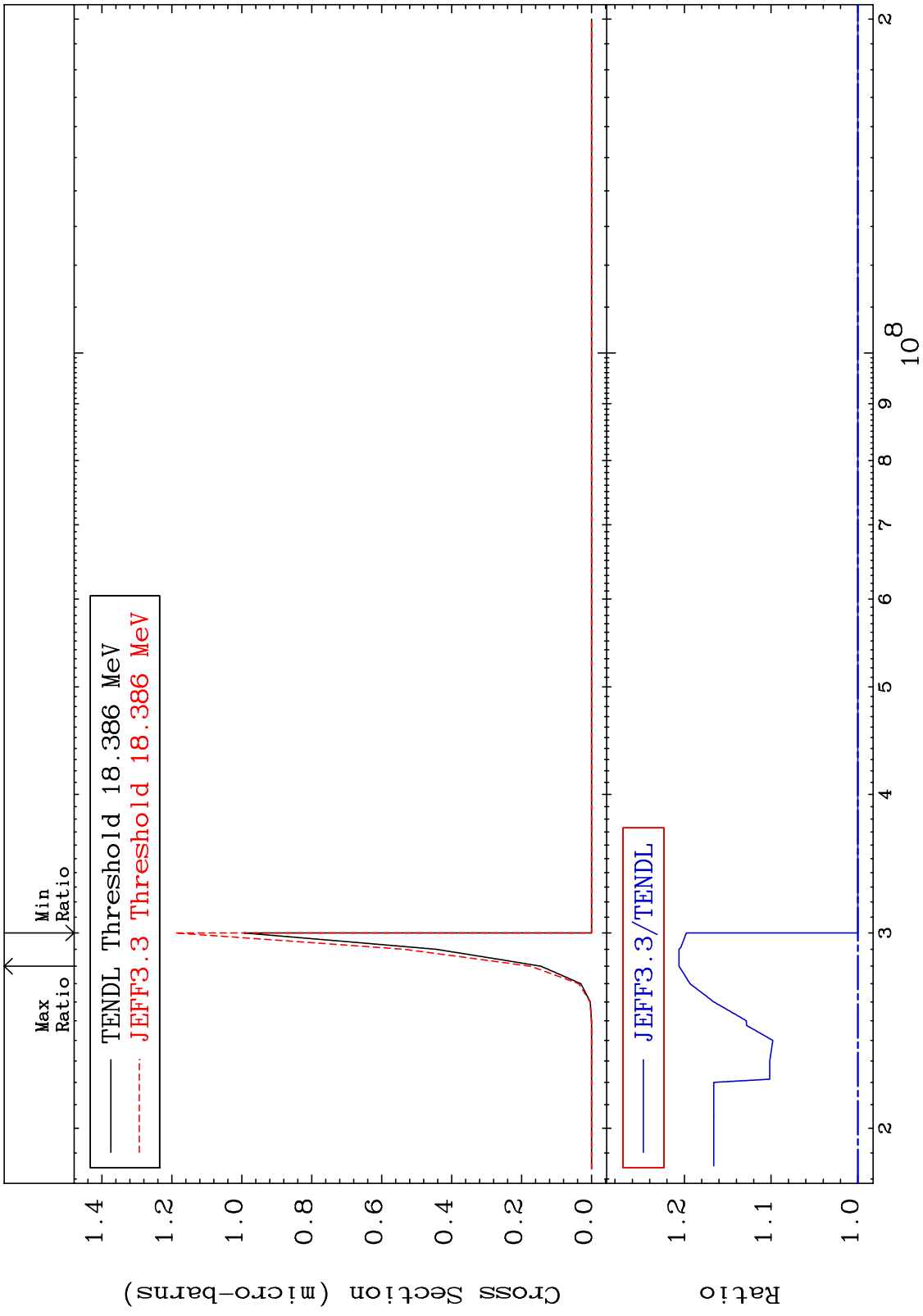


Incident Energy (eV)

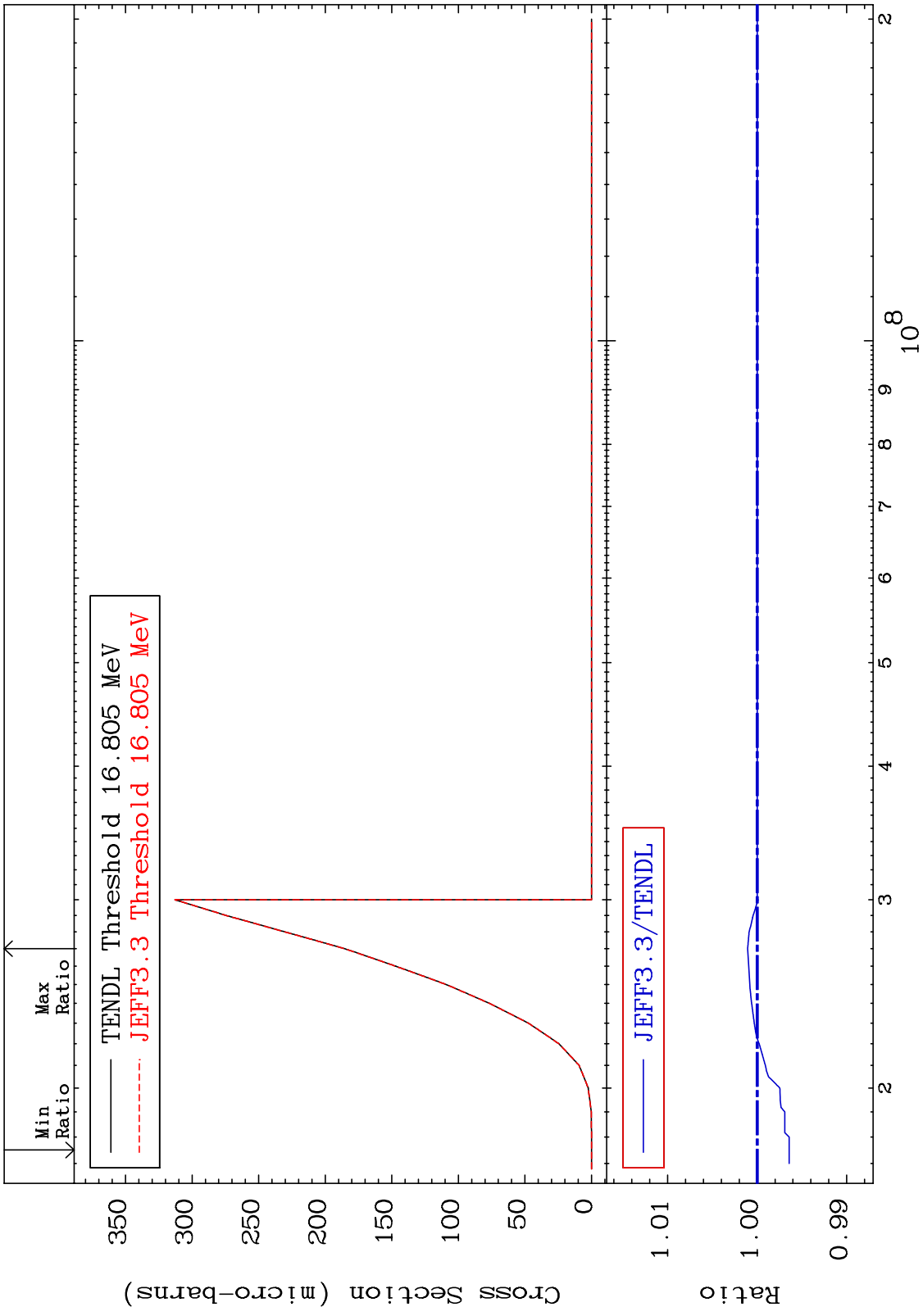
10-Ne-21



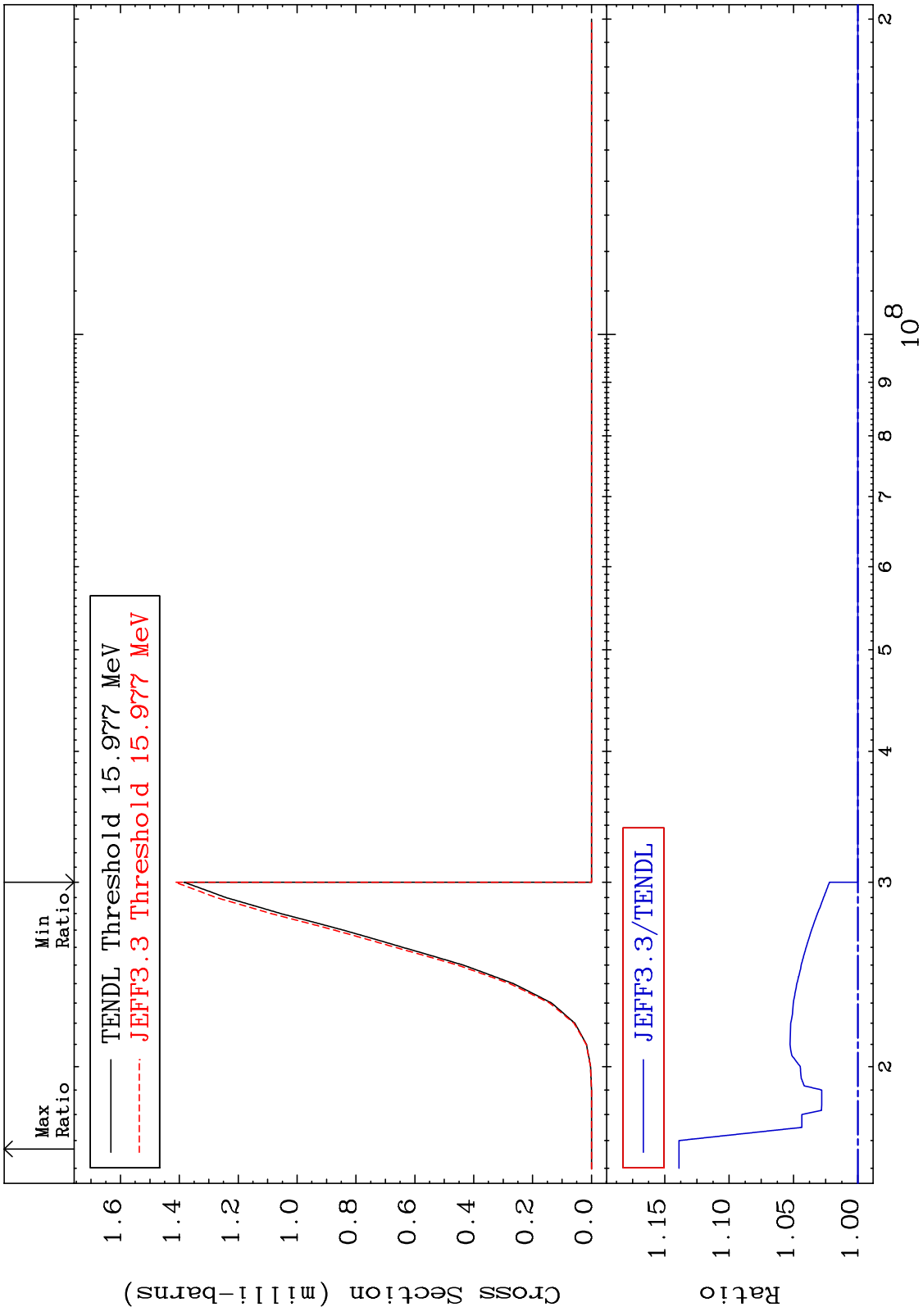
MAT 1028 $(n, 3\alpha)$ Cross Section 10-Ne-21 To 20.61 %



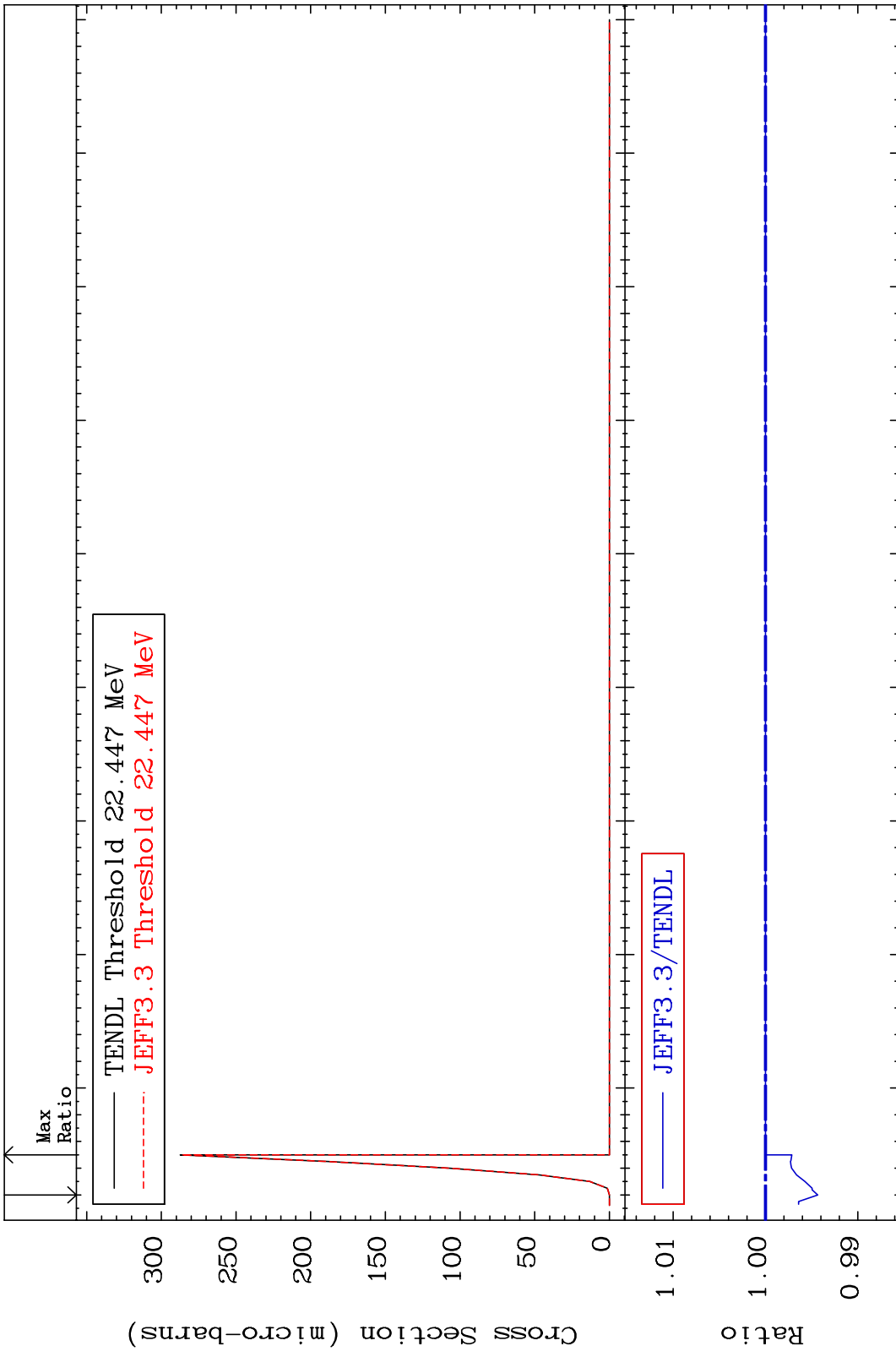
MAT 1028 (n,2p) 10-Ne-21
 Cross Section -0.359 To 0.106 %



MAT 1028 $(n,p) \alpha$ 10-Ne-21
 Cross Section 0.000 To 13.89 %

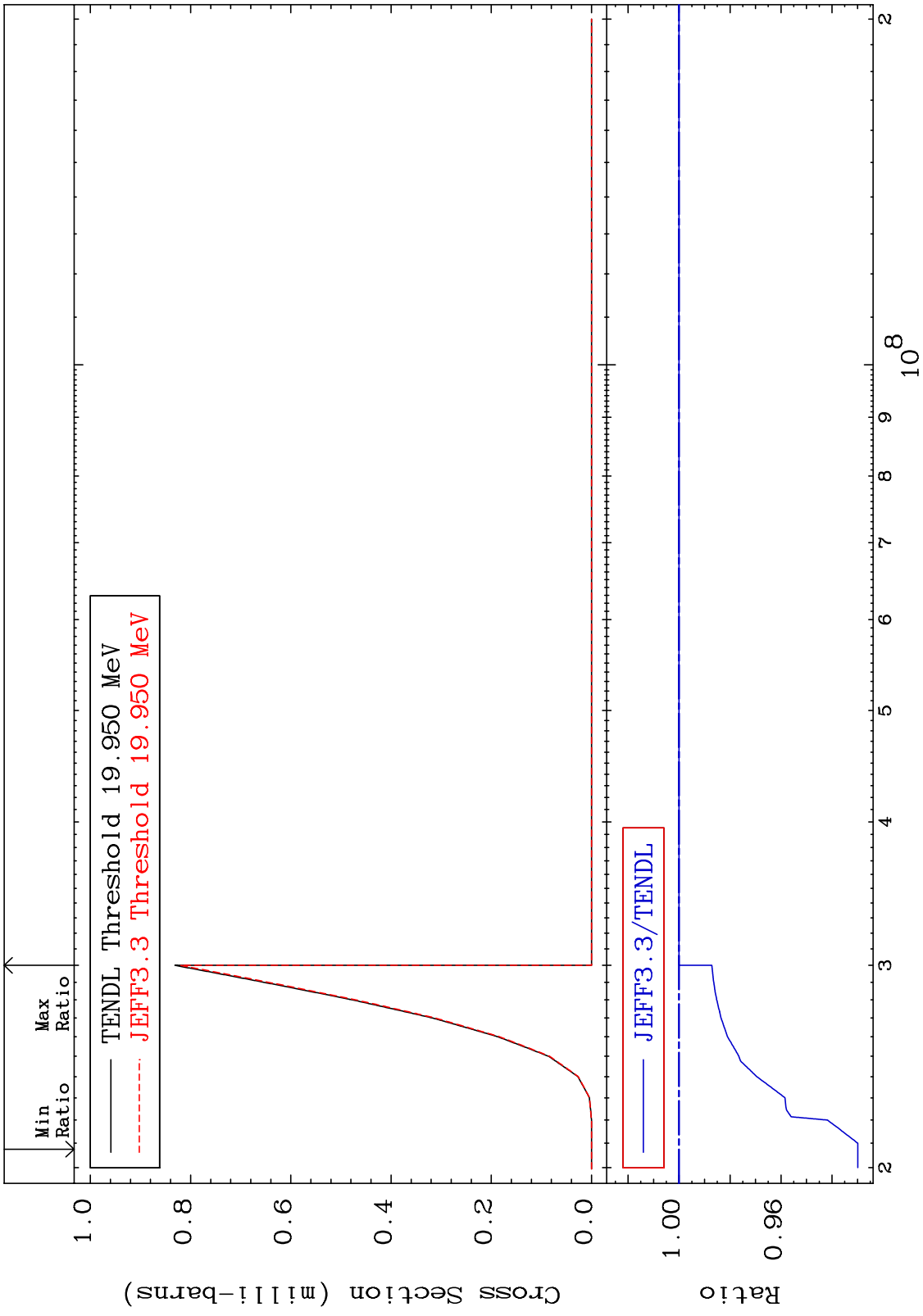


MAT 1028 (n,p) d 10-Ne-21
Cross Section -0.566 To 0.000 %



60 Incident Energy (MeV) 10-Ne-21

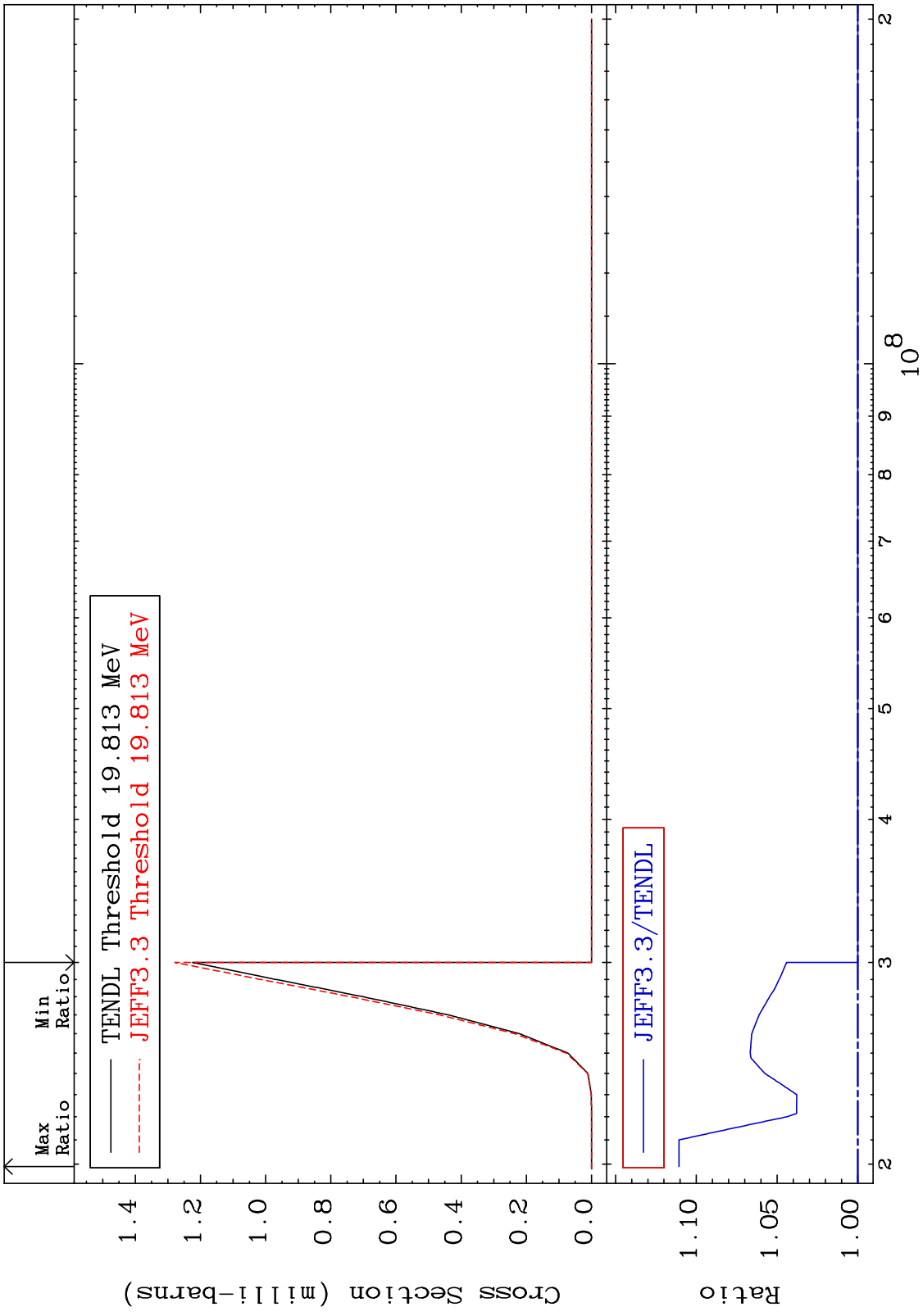
MAT 1028 (n,p) t 10-Ne-21
Cross Section -7.014 To 0.000 %



10-Ne-21

Incident Energy (eV)

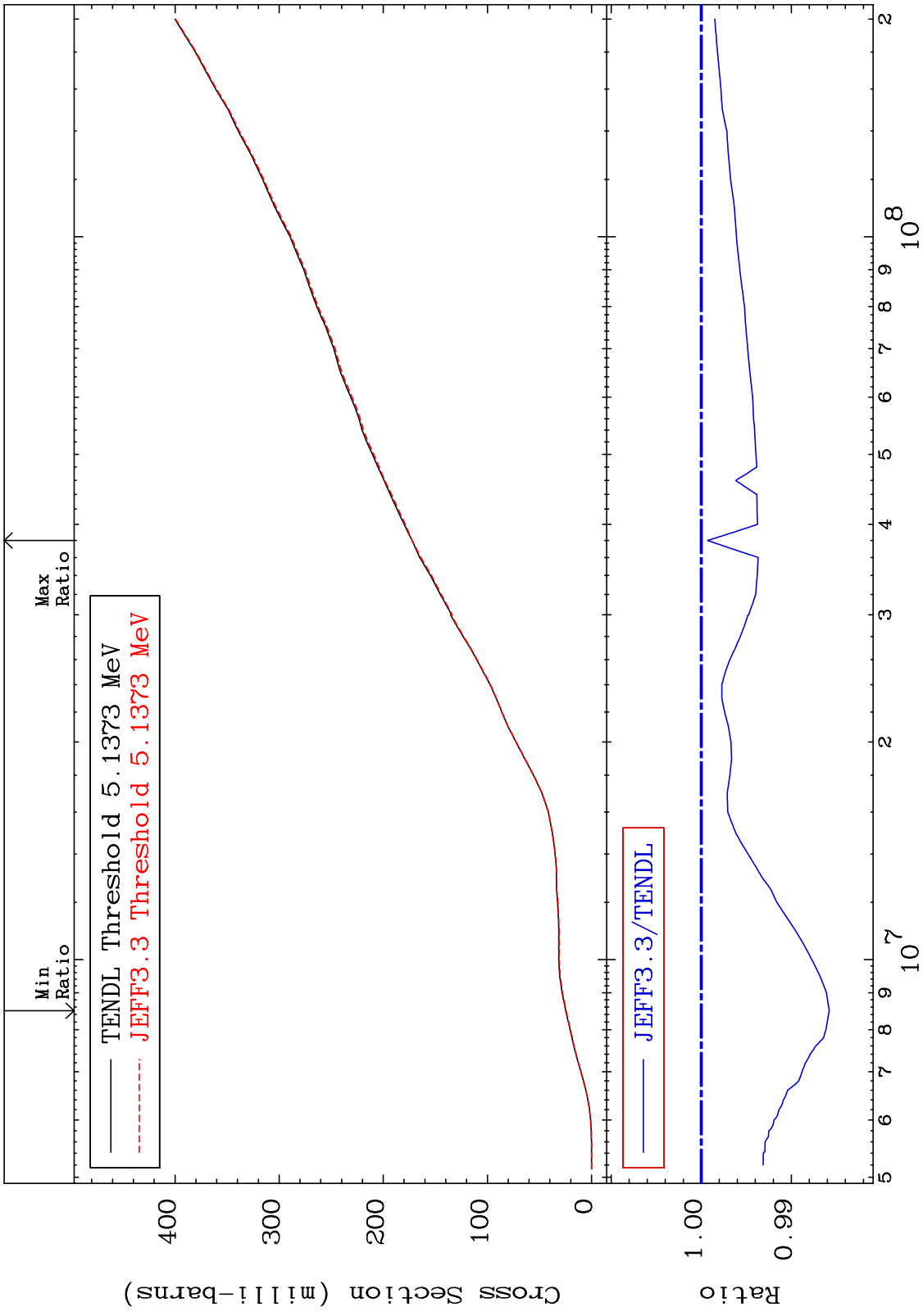
MAT 1028 (n,d) α 10-Ne-21
 Cross Section To 11.07 %

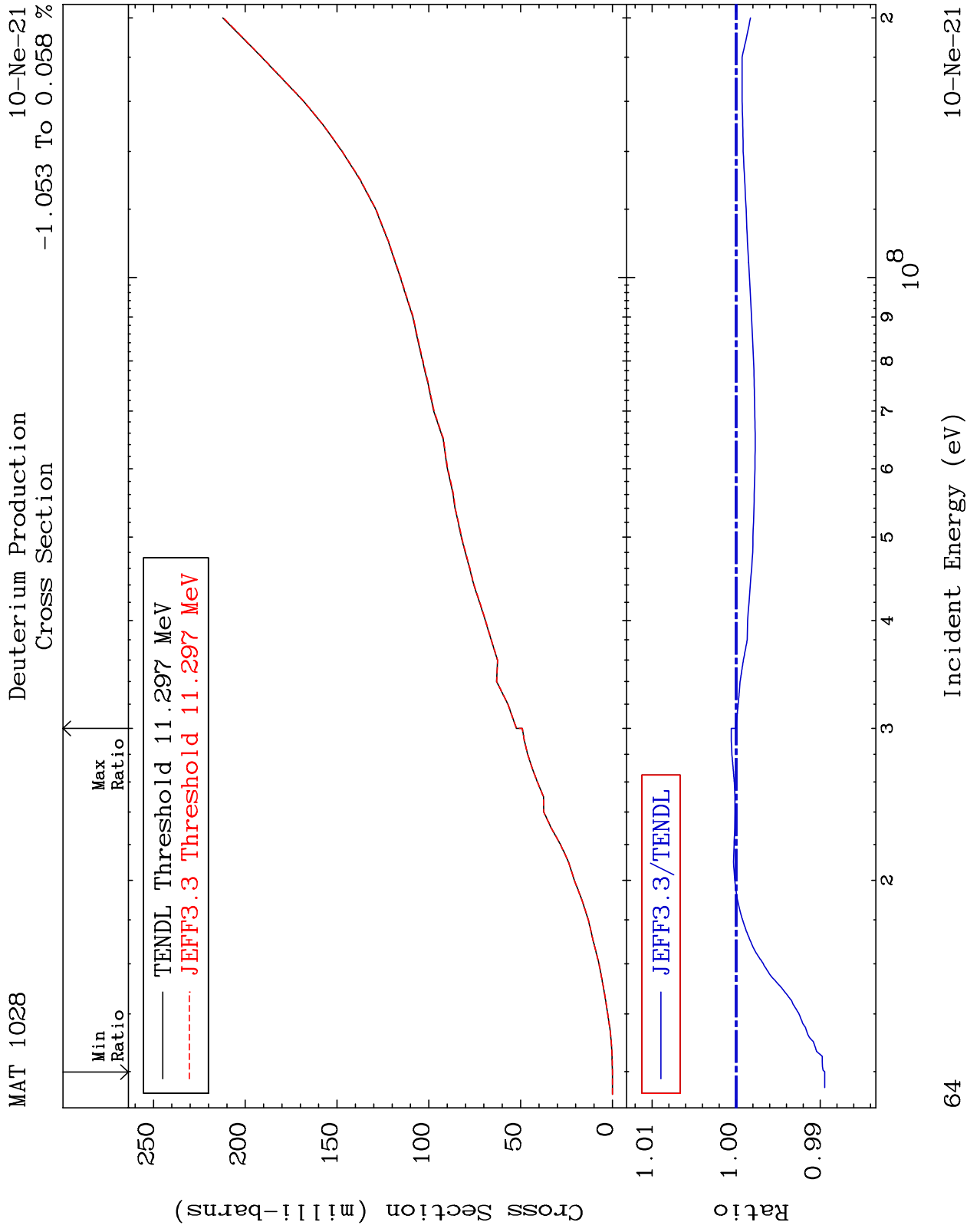


10-Ne-21

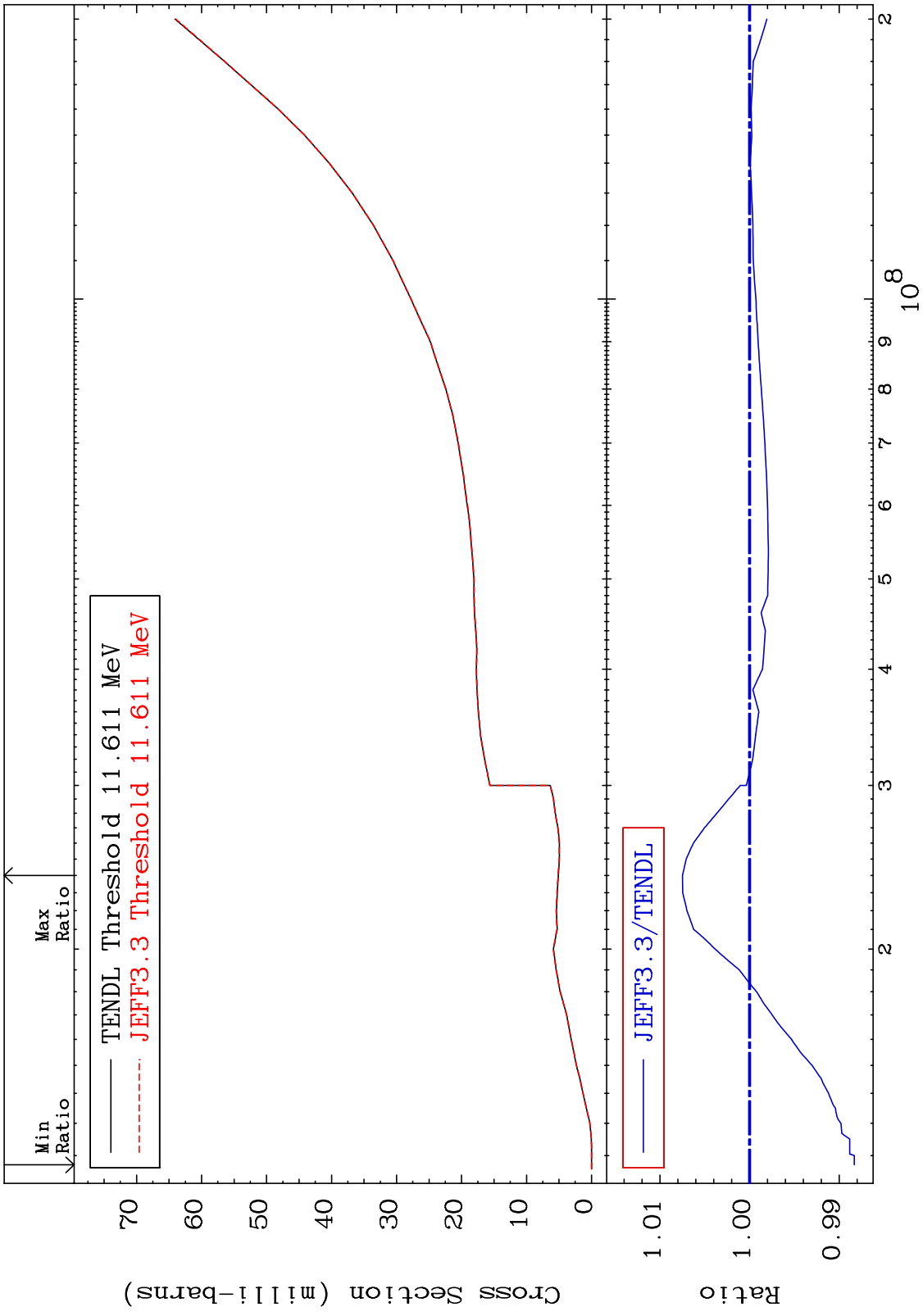
Incident Energy (eV)

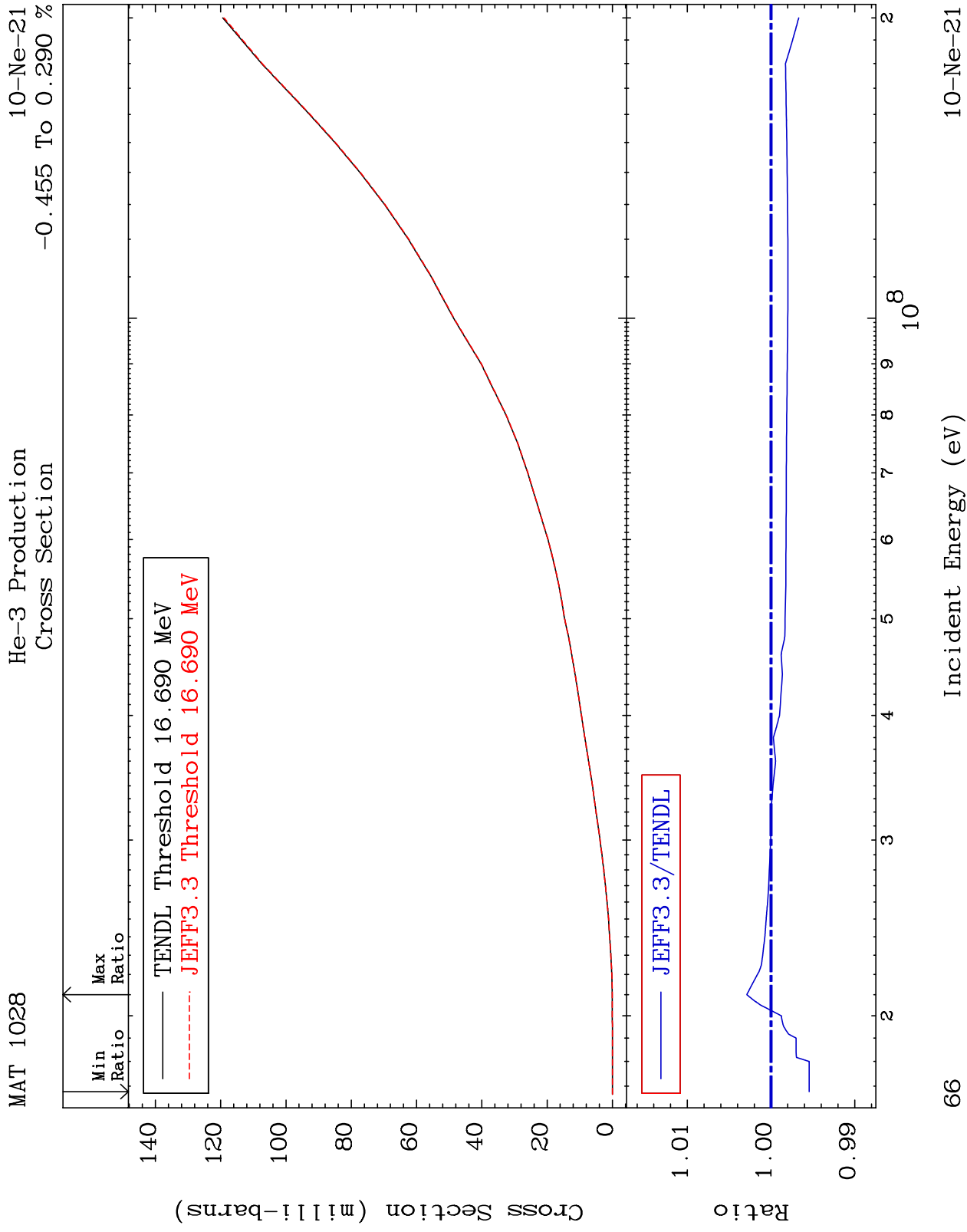
MAT 1028 Hydrogen Production Cross Section 10-Ne-21 -1.421 To -0.071%





MAT 1028 Tritium Production Cross Section 10-Ne-21 -1.169 To 0.749 %

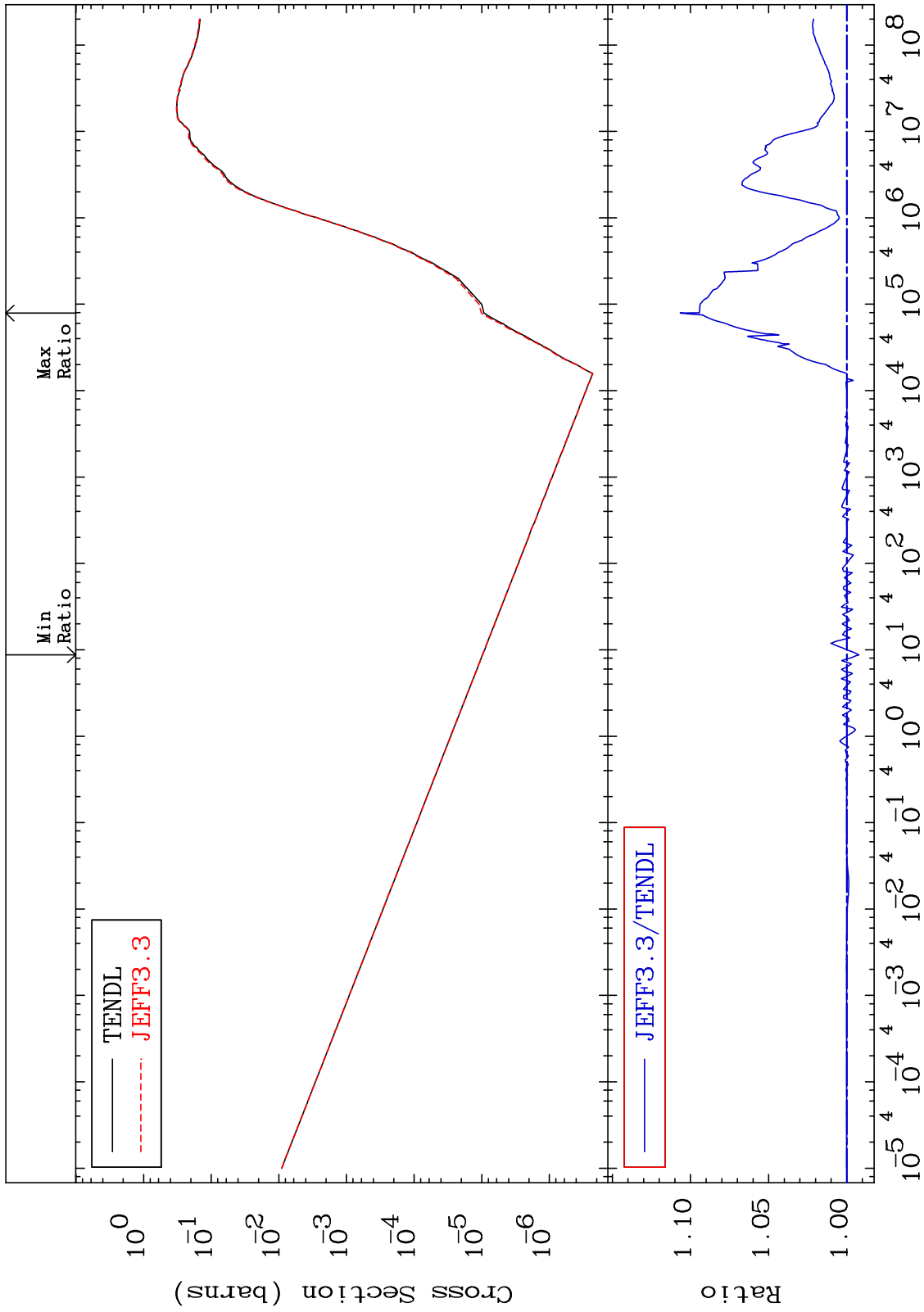




MAT 1028

He-4 Production
Cross Section

10-Ne-21
-0.774 To 10.66 %

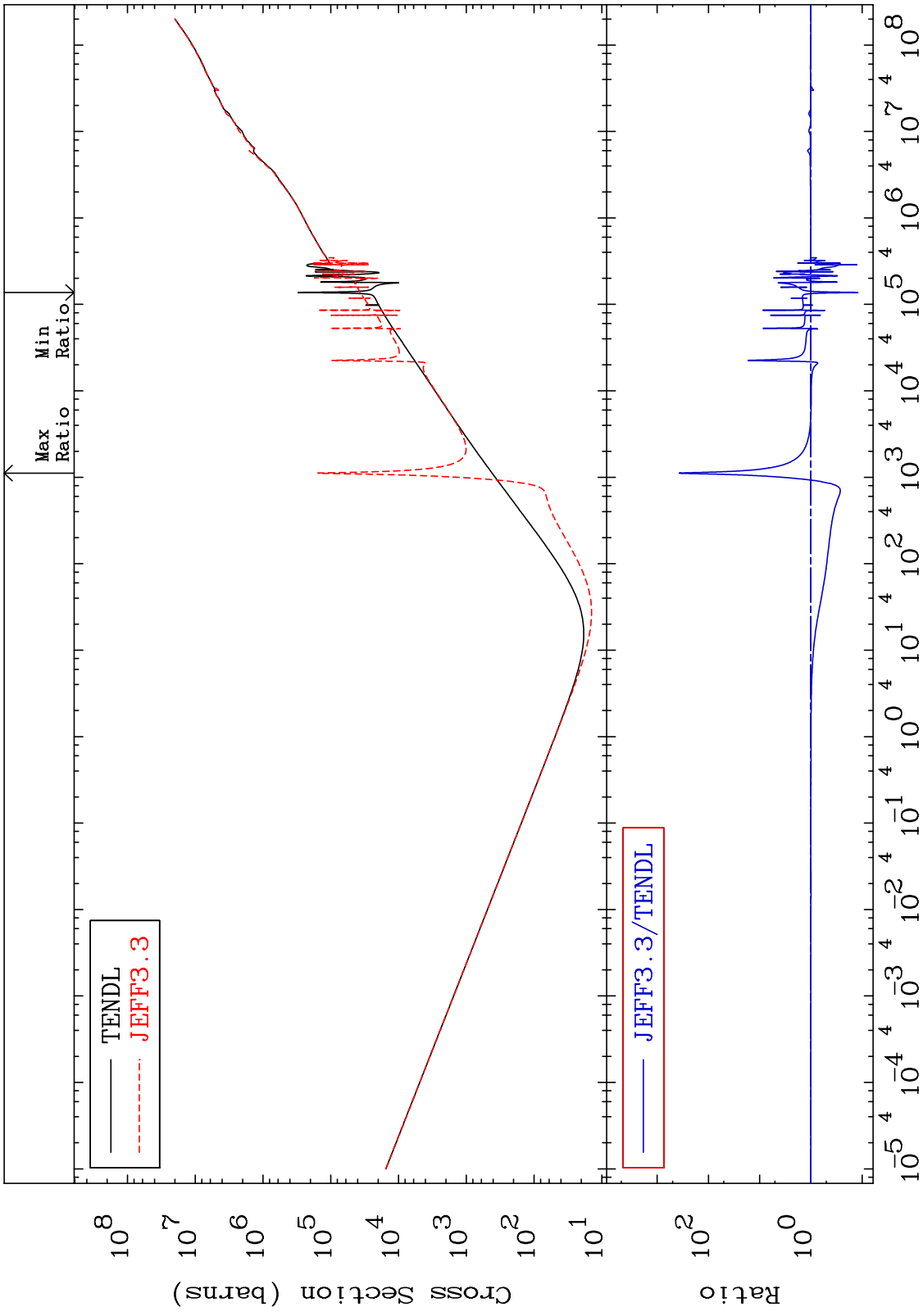


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Incident Energy (eV)

10-Ne-21

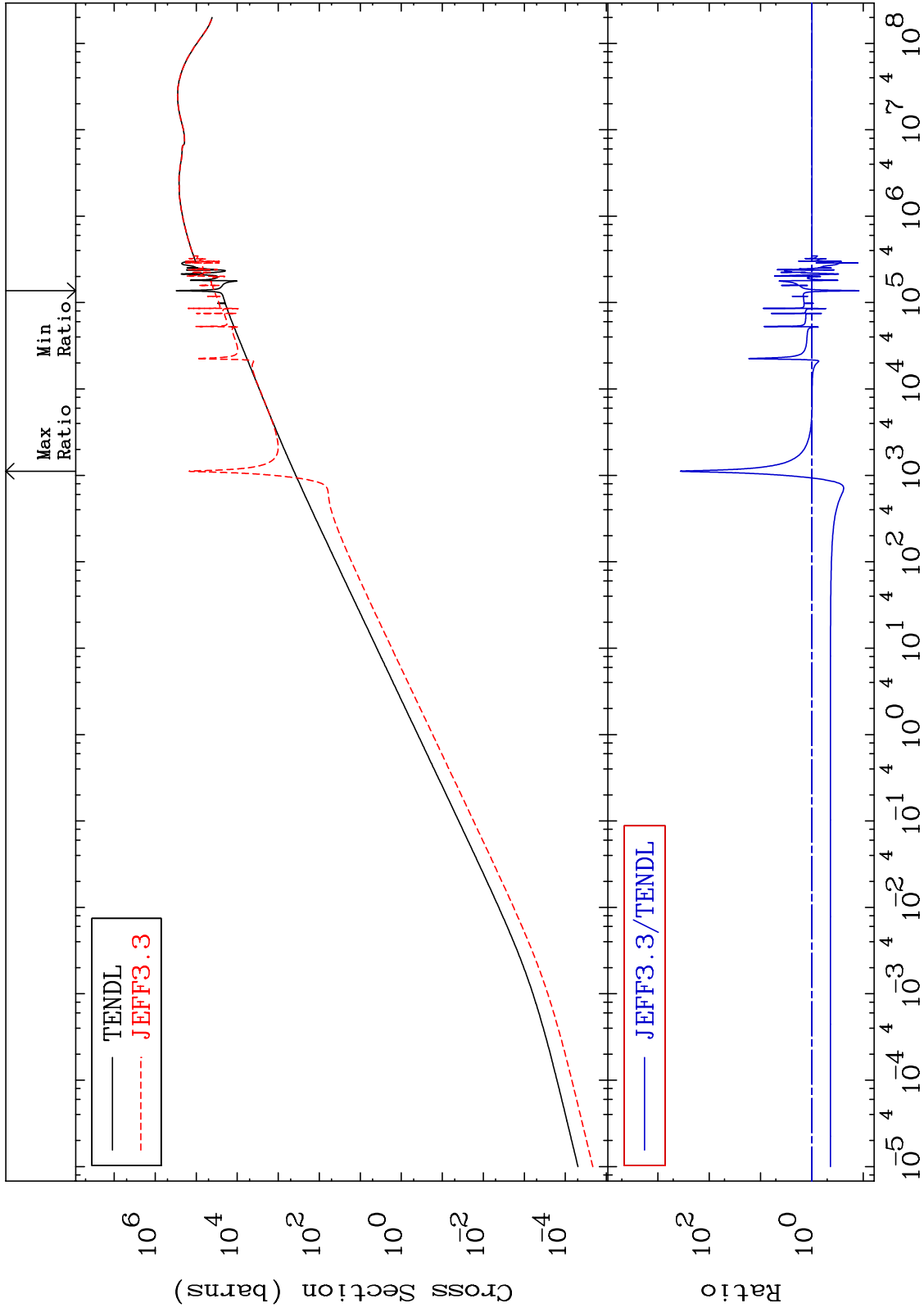
MAT 1028 Kerma total (eV-barns) 10-Ne-21
 Cross Section -87.90 To 9999. %



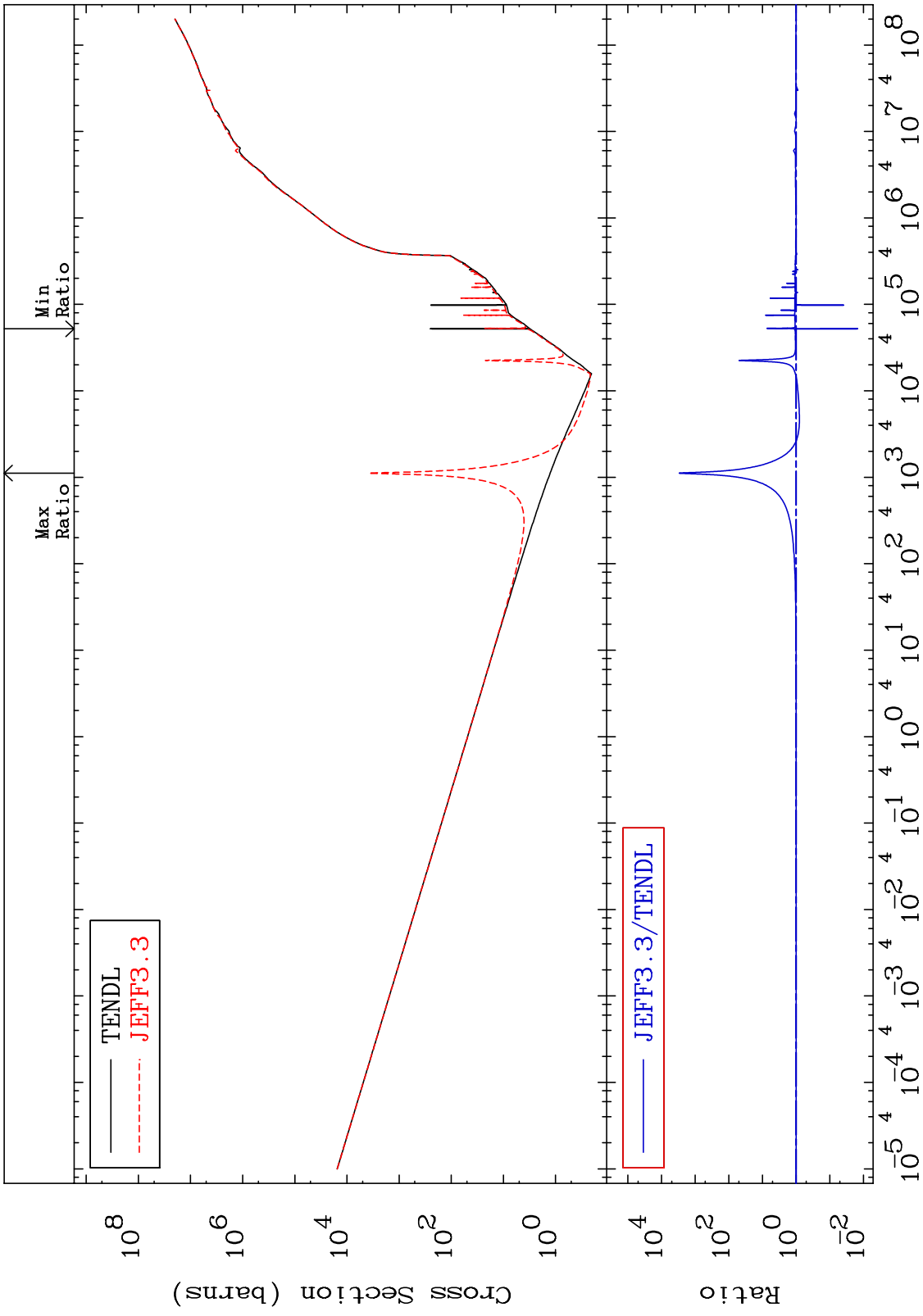
MAT 1028

Kerma elastic
Cross Section

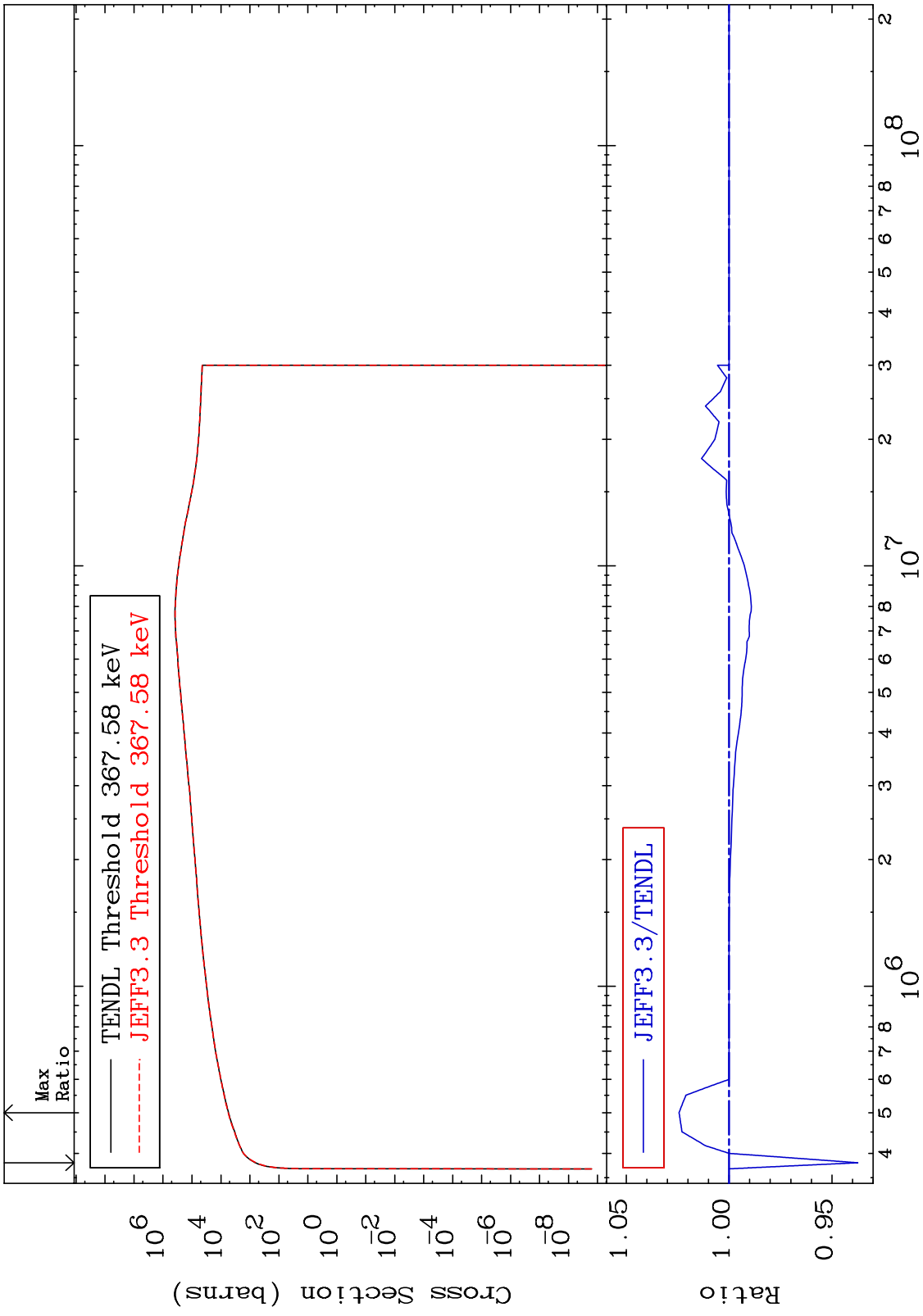
10-Ne-21
-87.91 To 9999. %



MAT 1028 Kerma non-elastic (all but mt2) 10-Ne-21
 Cross Section -98.54 To 9999. %



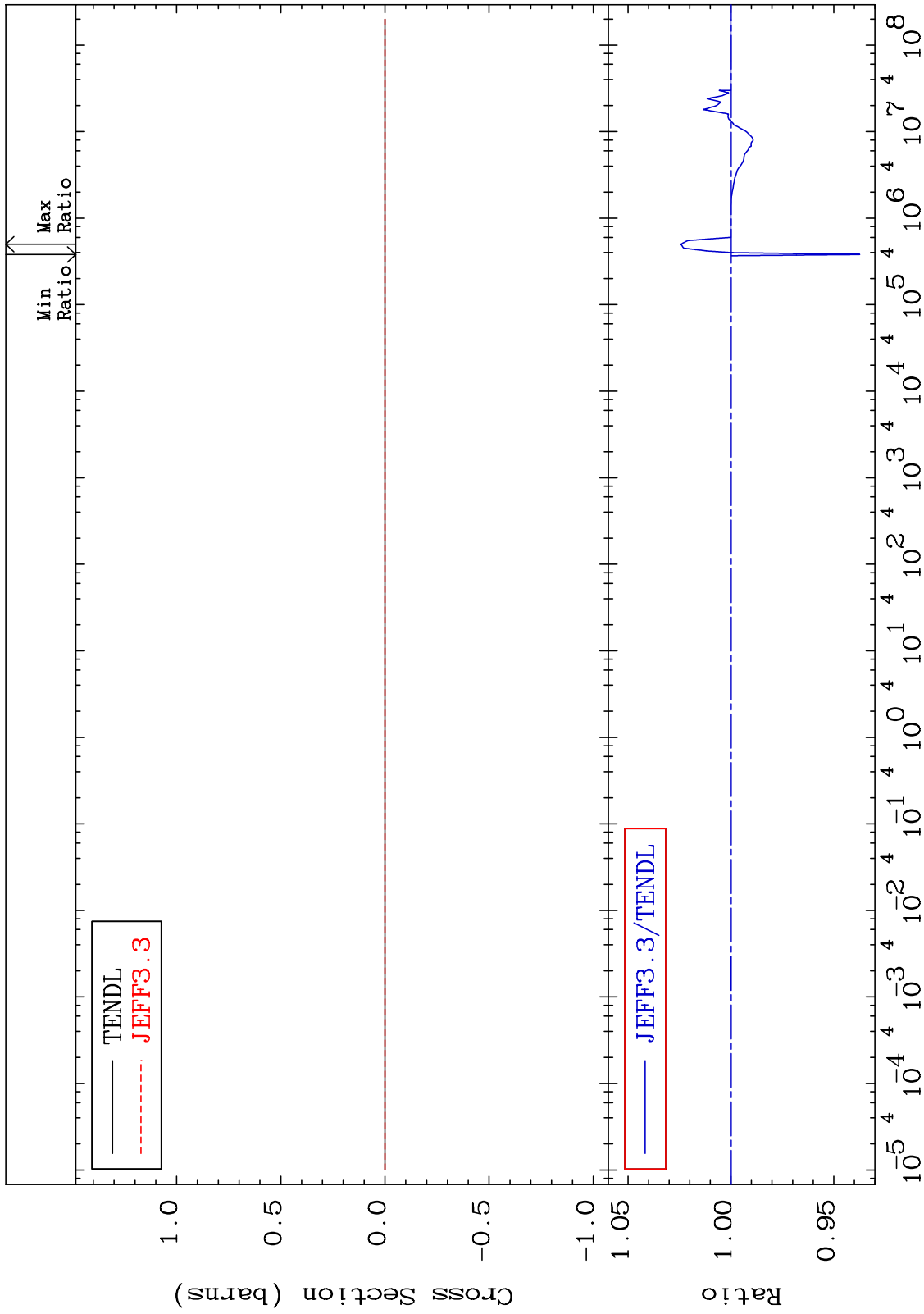
MAT 1028 Kerma inelastic (mt51-91) 10-Ne-21
 Cross Section -6.261 To 2.435 %



MAT 1028

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

10-Ne-21
-6.261 To 2.435 %



72

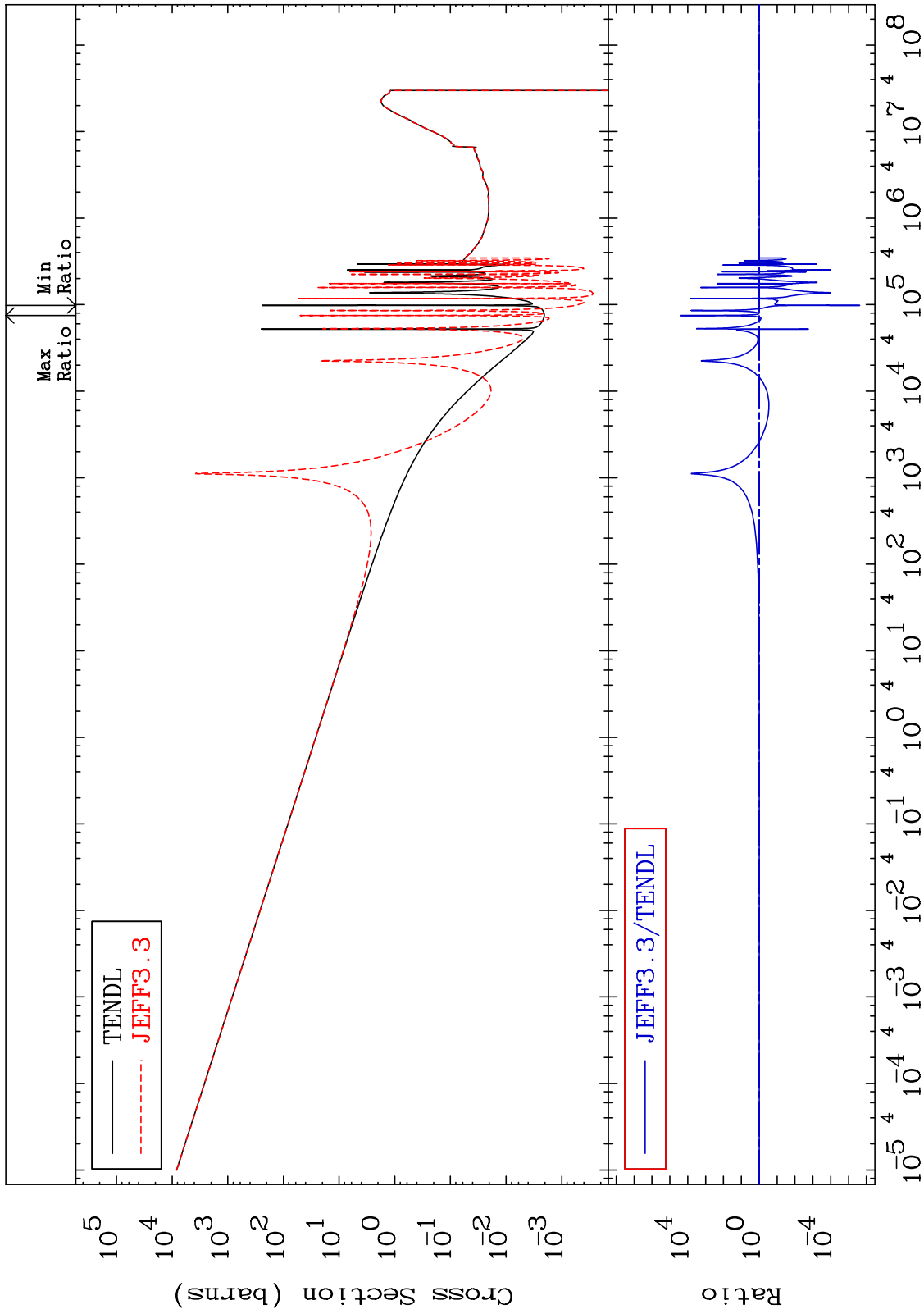
Incident Energy (eV)

10-Ne-21

MAT 1028

Kerma capture (mt102)
Cross Section

10-Ne-21
-100.0 To 9999. %



73

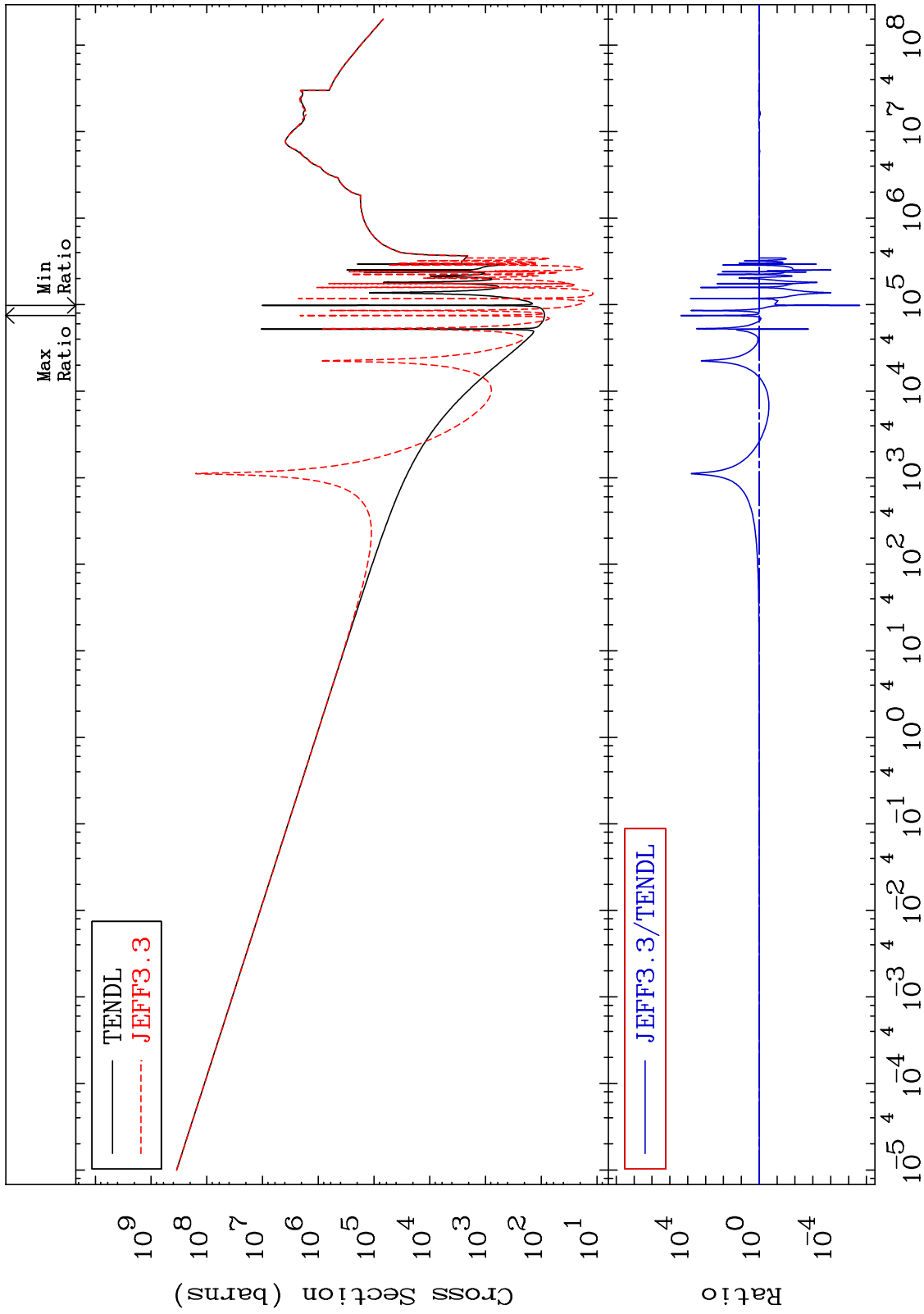
Incident Energy (eV)

10-Ne-21

MAT 1028

Total photon (eV-barns)
Cross Section

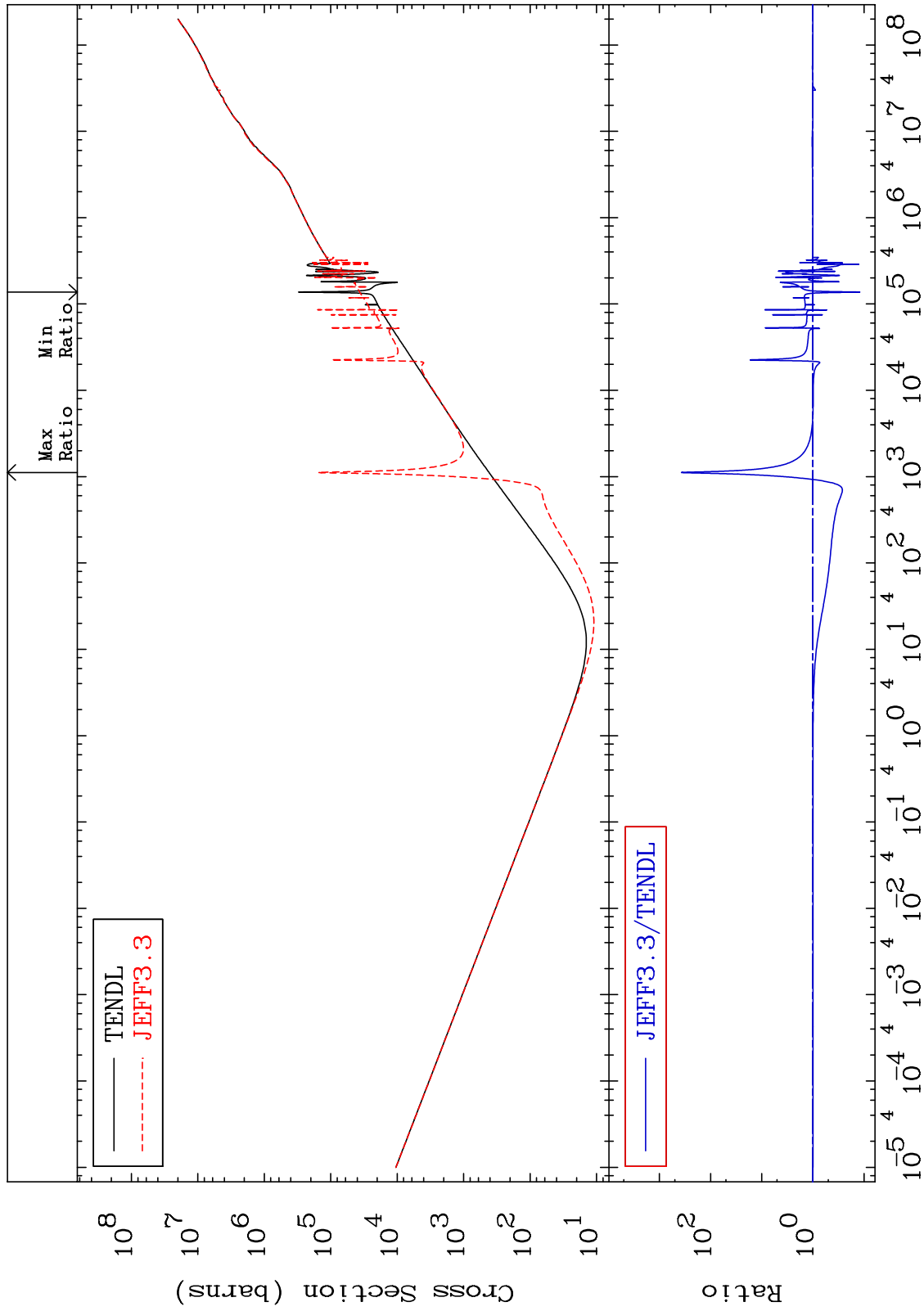
10-Ne-21
-100.0 To 9999. %



MAT 1028

Total kinematic kerma (high limit)
Cross Section

10-Ne-21
-87.90 To 9999. %



75

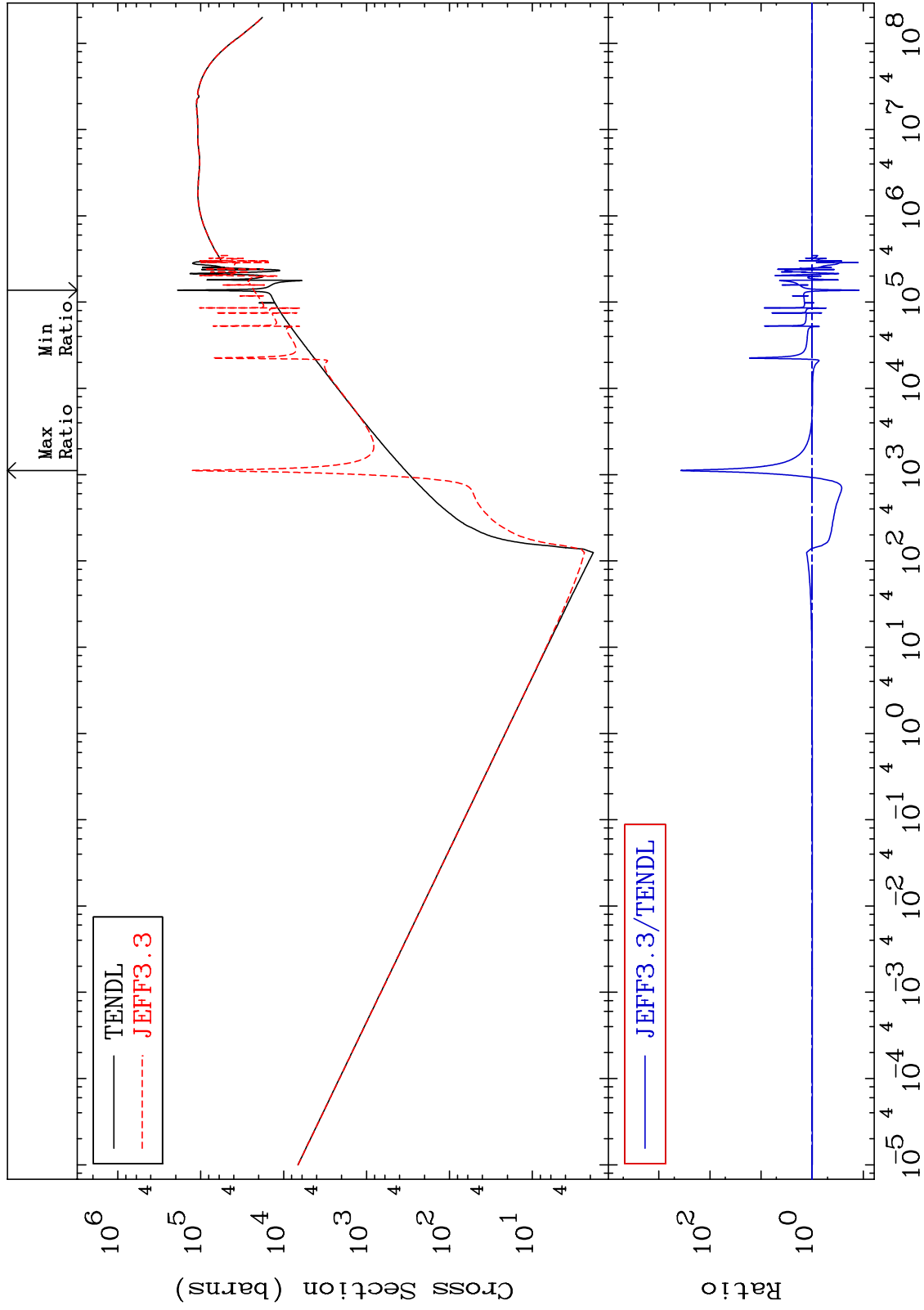
Incident Energy (eV)

10-Ne-21

MAT 1028

Dpa total (eV-barns)
Cross Section

10-Ne-21
-87.91 To 9999. %

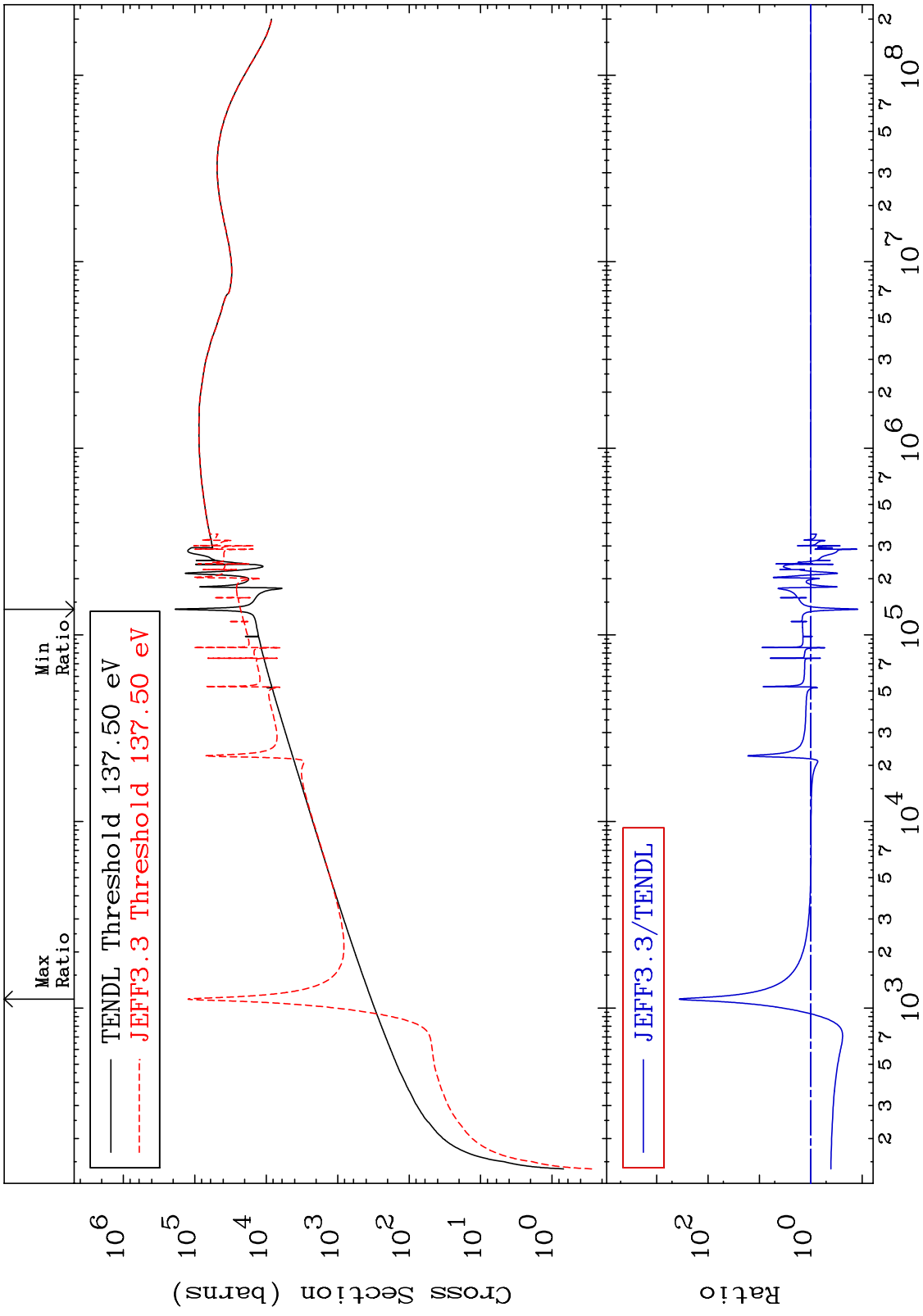


76

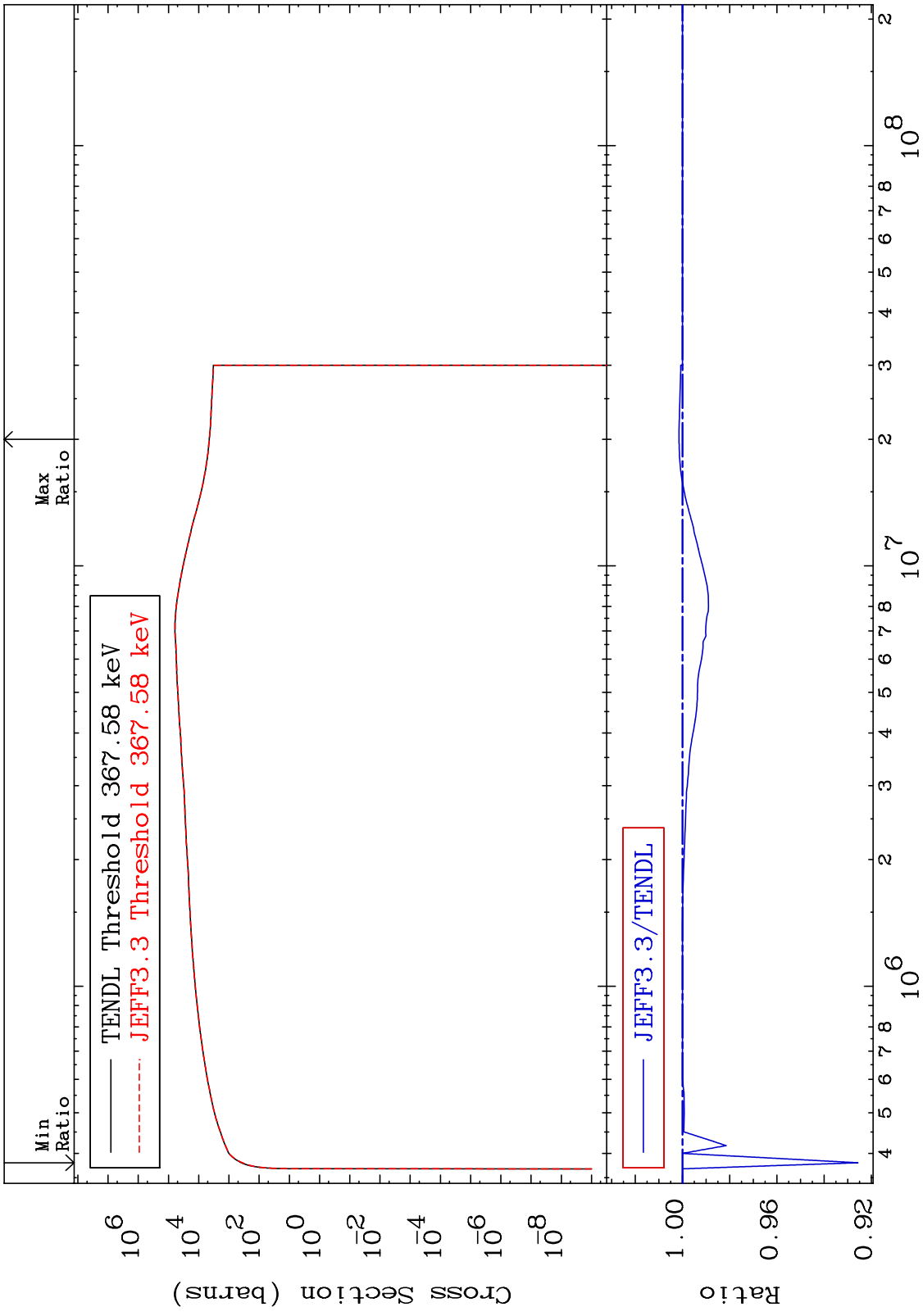
Incident Energy (eV)

10-Ne-21

MAT 1028 10-Ne-21
 Dpa elastic (mt2) -87.91 To 9999. %
 Cross Section



MAT 1028 Dpa inelastic (mt51-91) 10-Ne-21
Cross Section -7.430 To 0.146 %



MAT 1028

Dpa disappearance (mt102 -120)
Cross Section

10-Ne-21
-99.77 To 9999. %

