

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

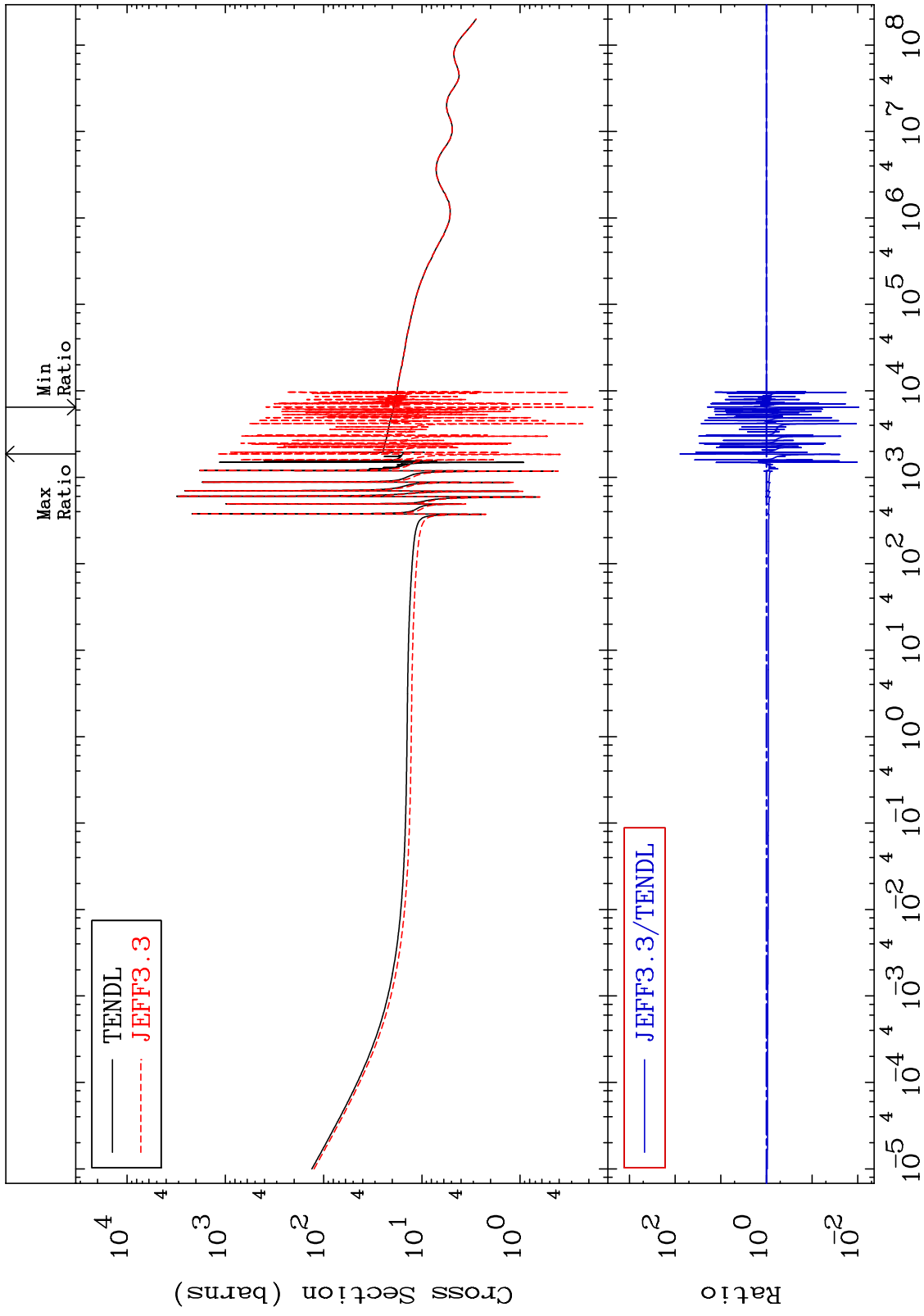
Press Mouse Button to Start

MAT 7837

Total
Cross Section

78-Pt-194

-99.06 To 7630. %



Incident Energy (eV)

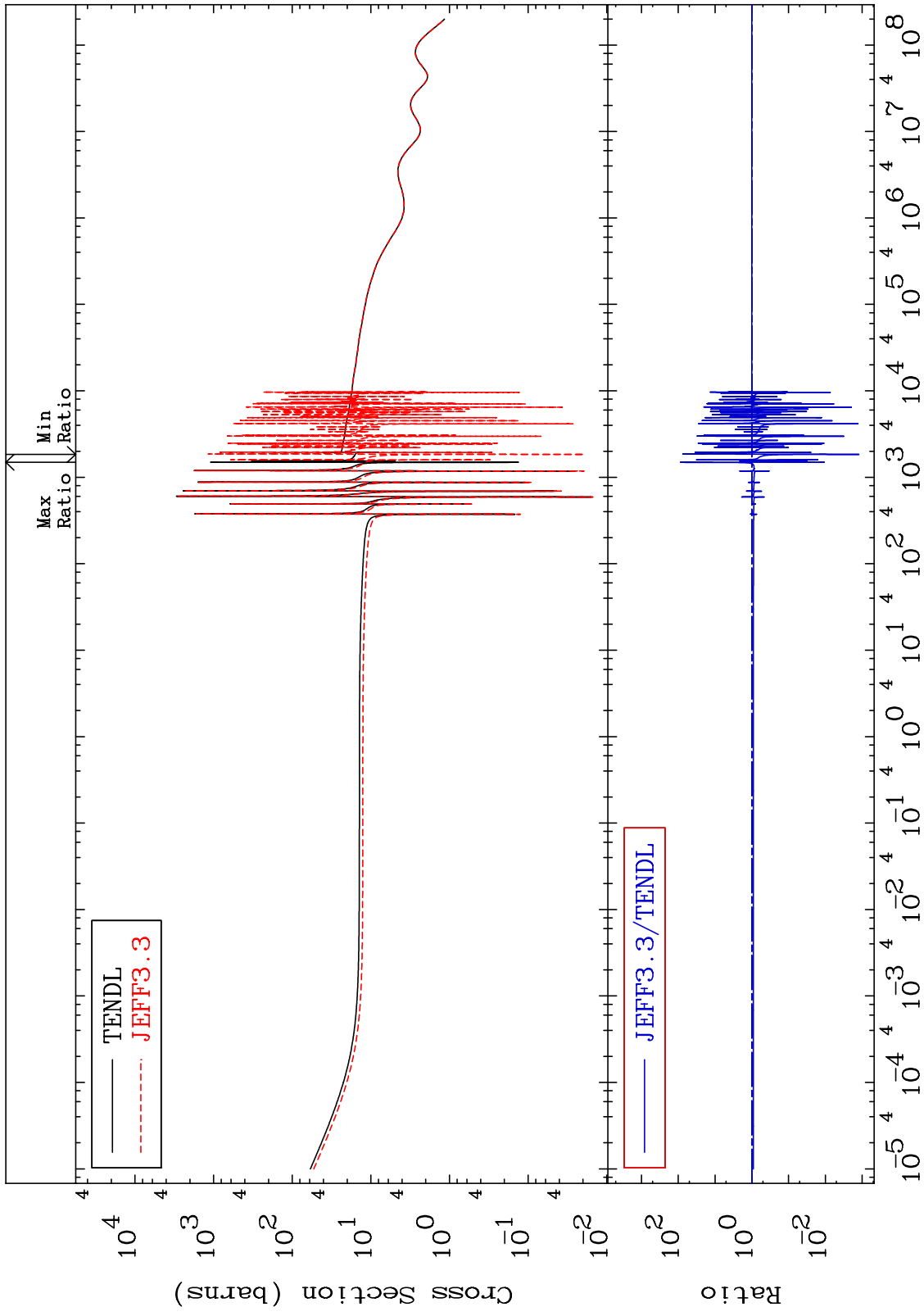
78-Pt-194

1

MAT 7837

Elastic
Cross Section

78-Pt-194
-99.88 To 8731. %



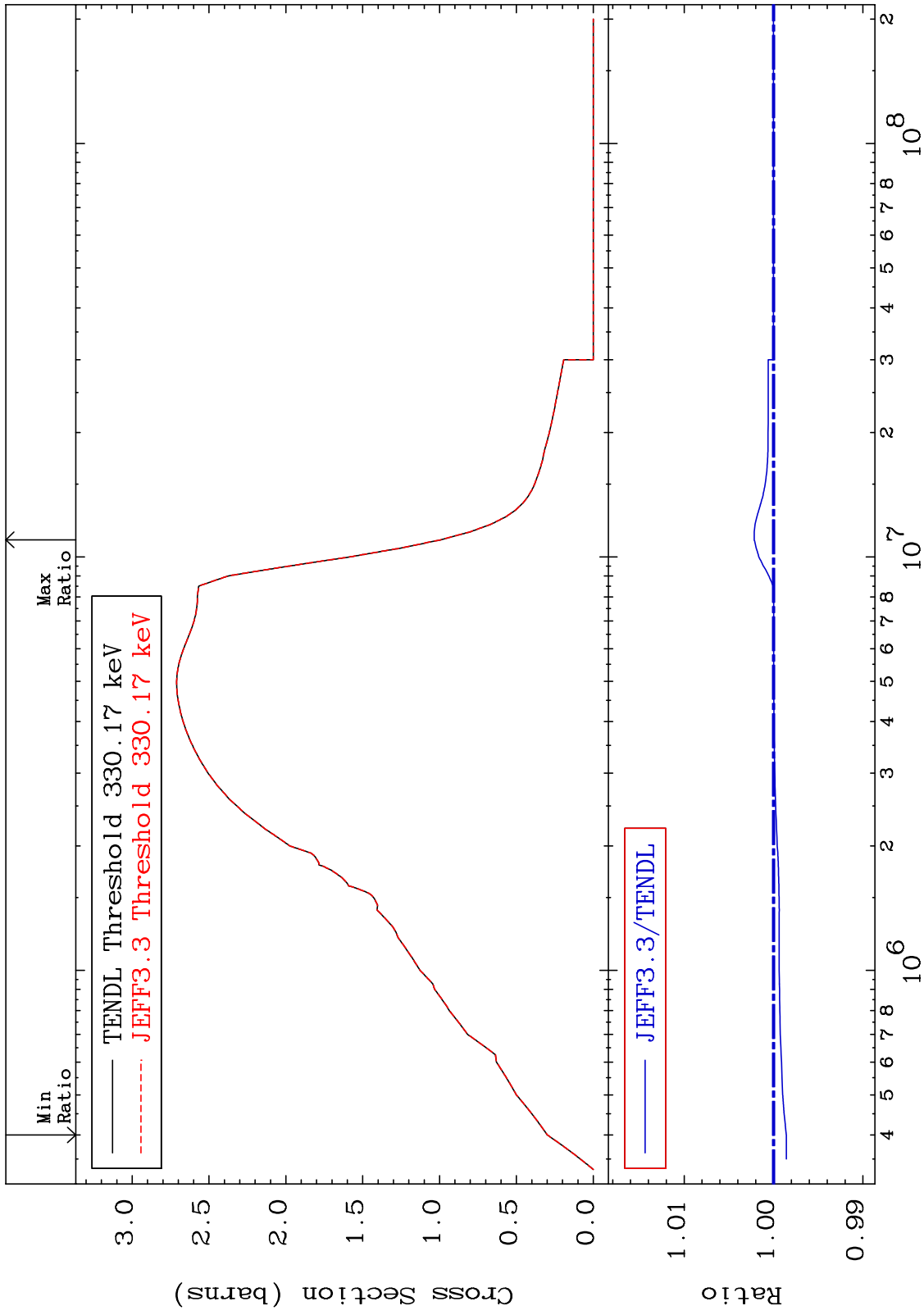
2

Incident Energy (eV)

78-Pt-194

MAT 7837 78-Pt-194 -0.142 To 0.217 %

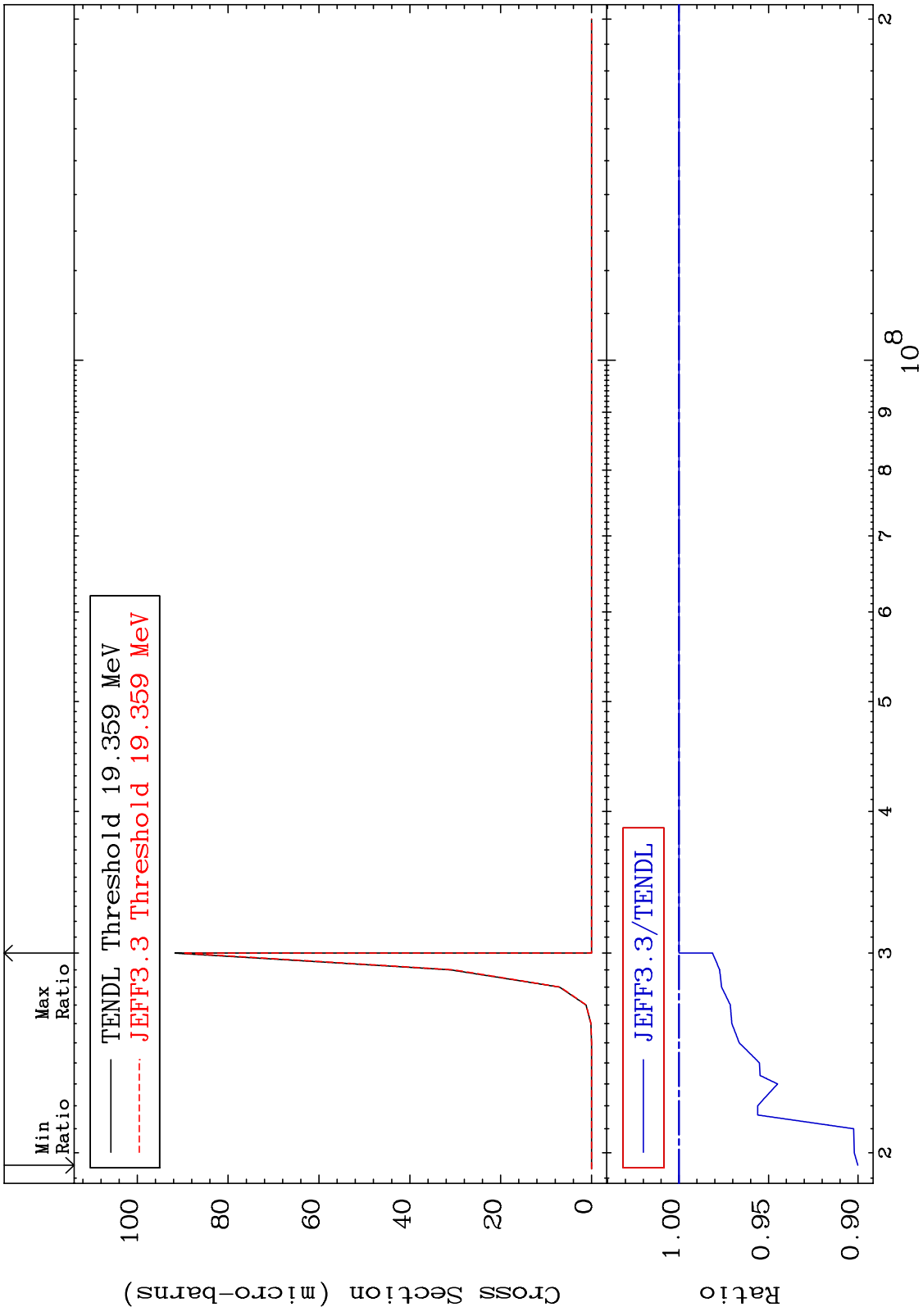
Inelastic Cross Section



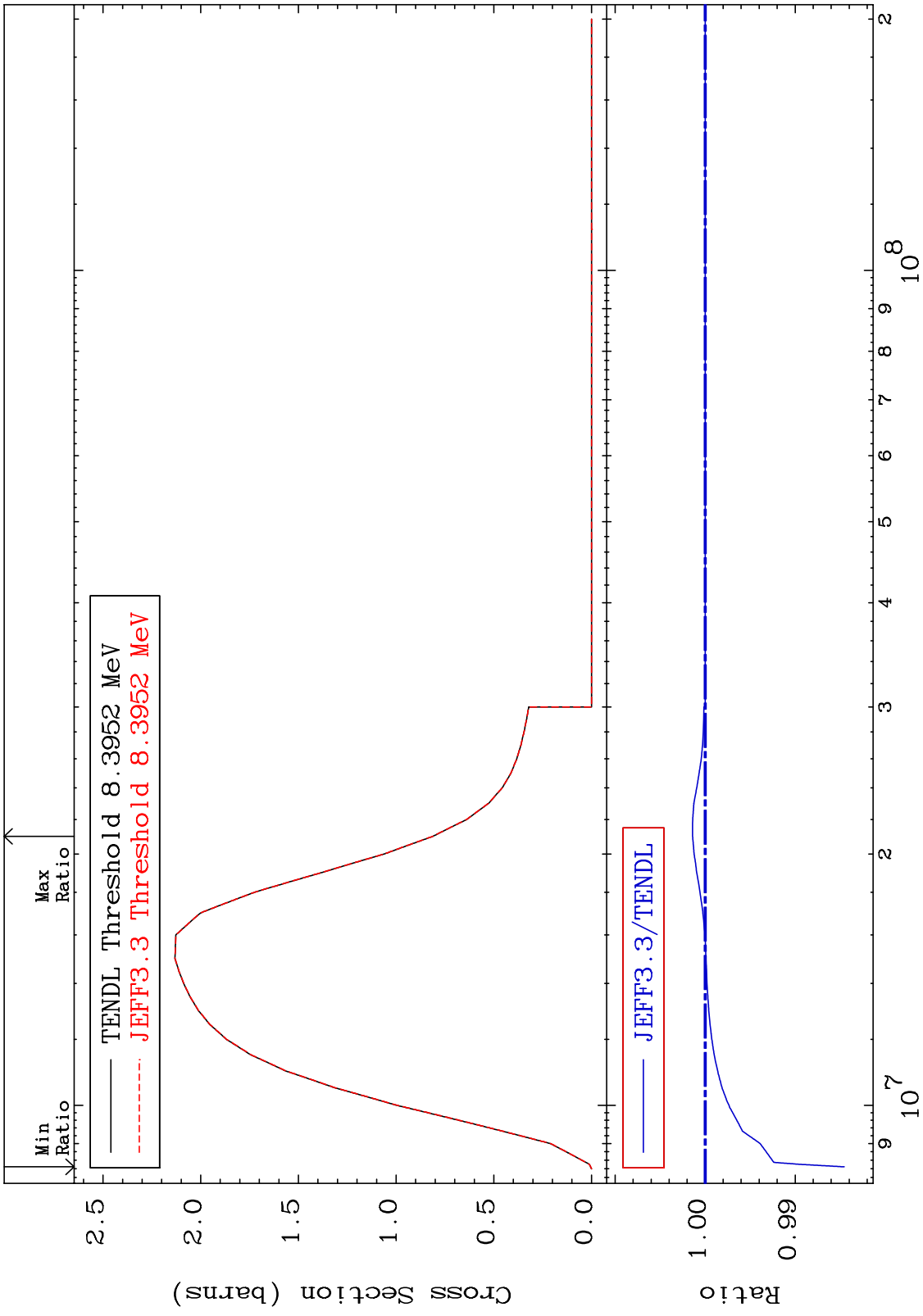
78-Pt-194

Incident Energy (eV)

MAT 7837 (n,2n) d 78-Pt-194
 Cross Section -9.993 To 0.000 %

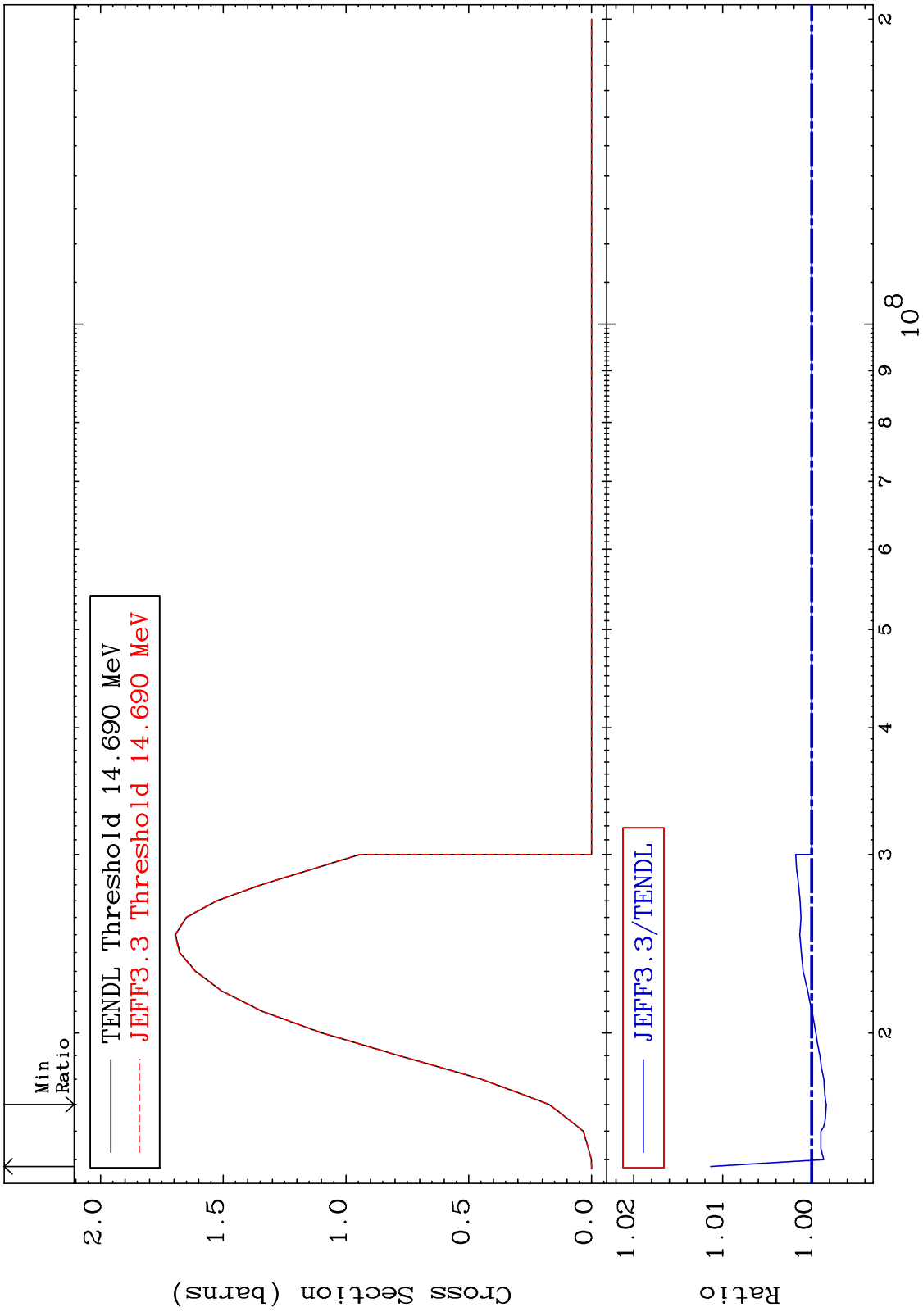


MAT 7837 (n,2n) Cross Section 78-Pt-194 -1.546 To 0.139 %



5 Incident Energy (eV) 78-Pt-194

MAT 7837 (n,3n) Cross Section 78-Pt-194 -0.163 To 1.136 %



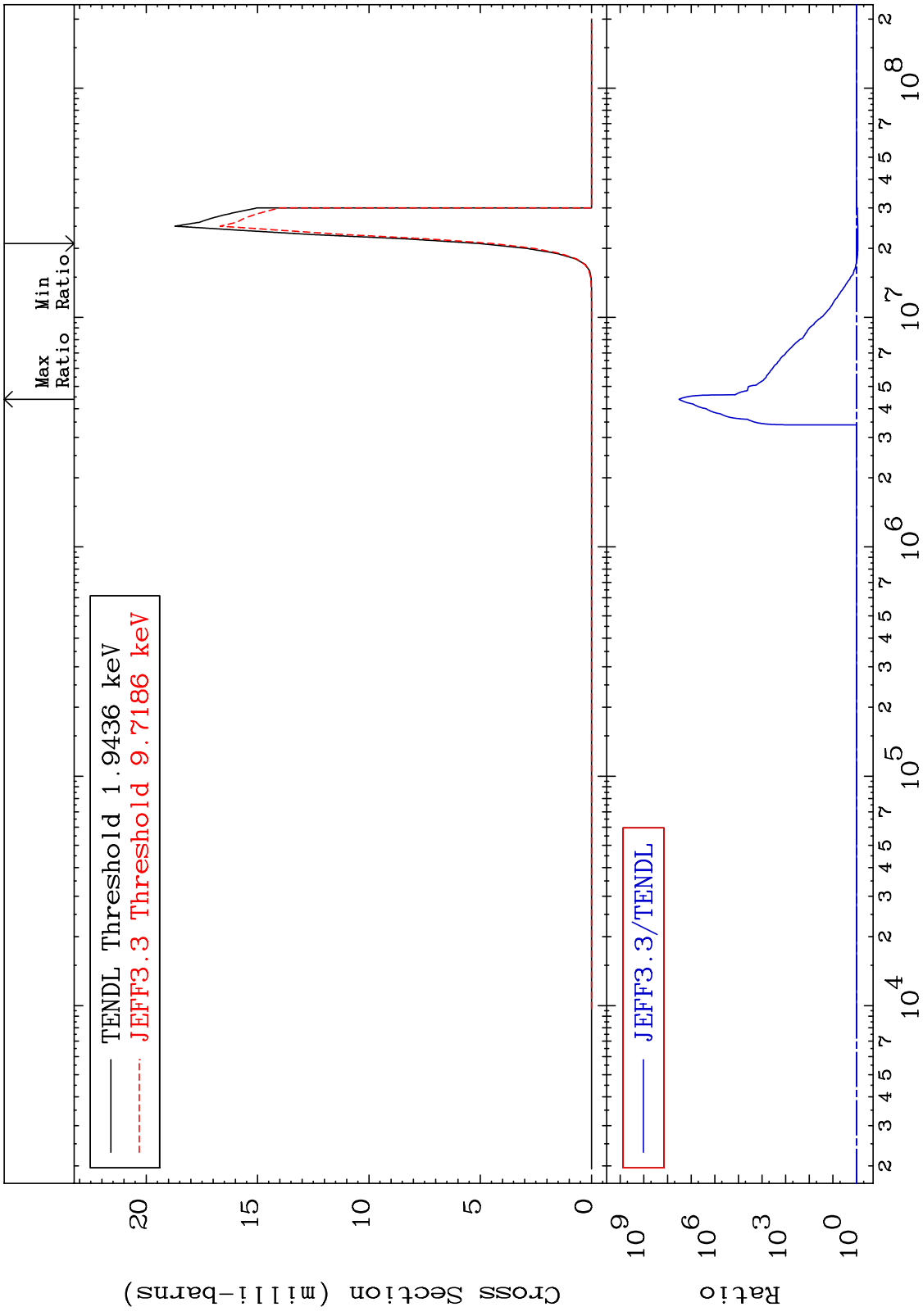
MAT 7837

(n, n') α

78-Pt-194

Cross Section

-11.69 To 9999. %



7

Incident Energy (eV)

78-Pt-194

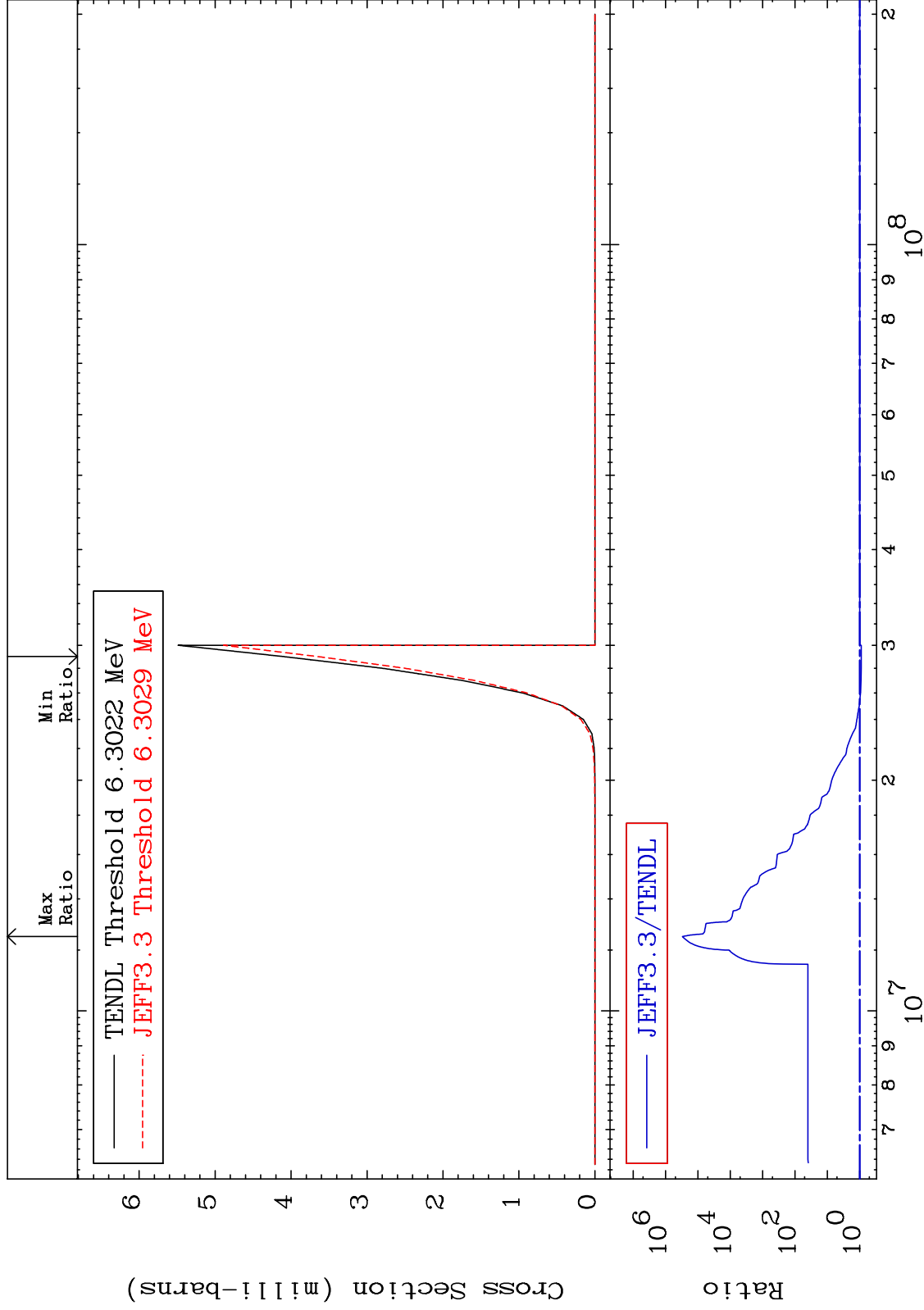
MAT 7837

(n,2n) α

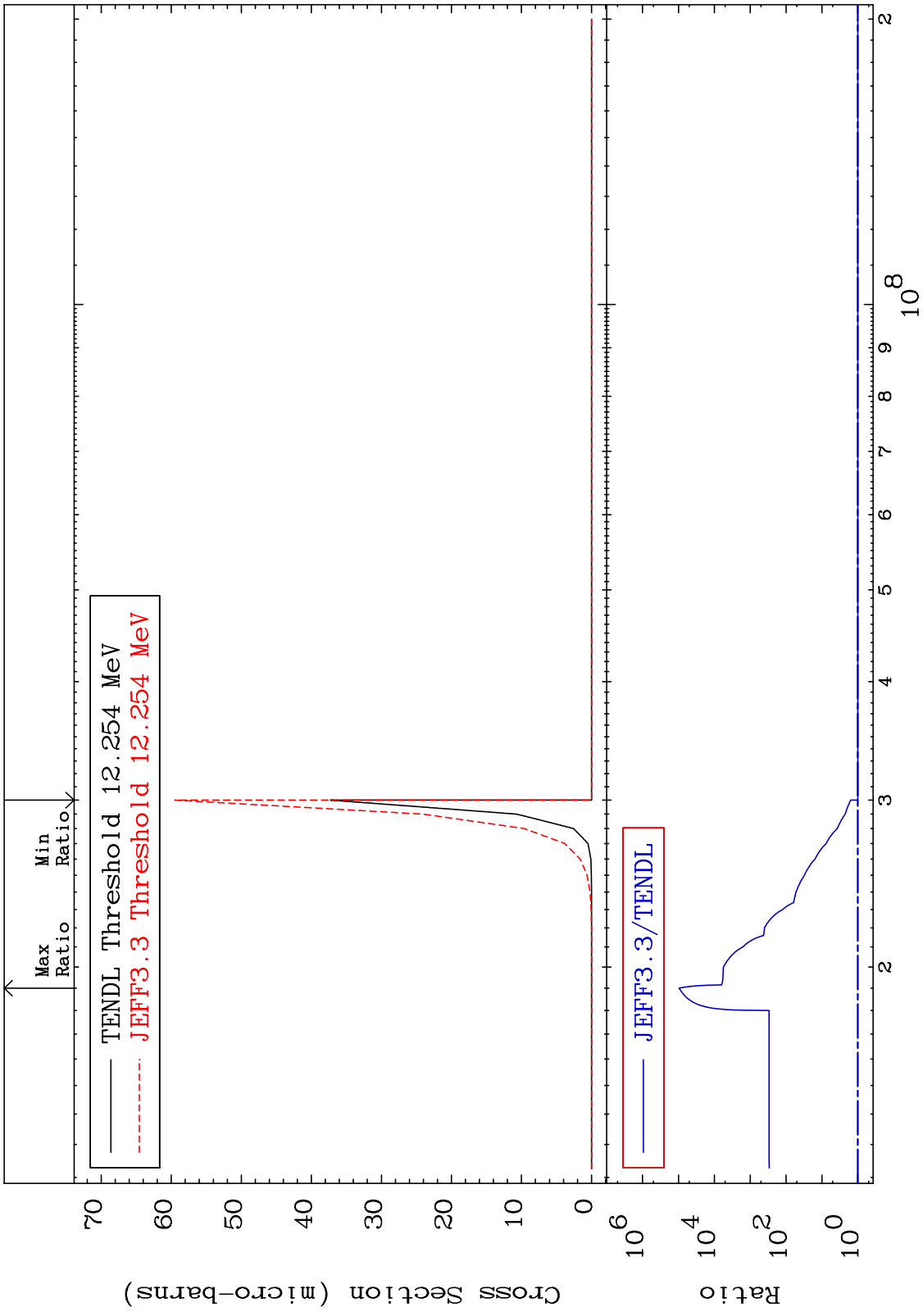
78-Pt-194

-11.00 To 9999. %

Cross Section



MAT 7837 $(n, 3n) \alpha$ 78-Pt-194
 Cross Section 0.000 To 9999. %



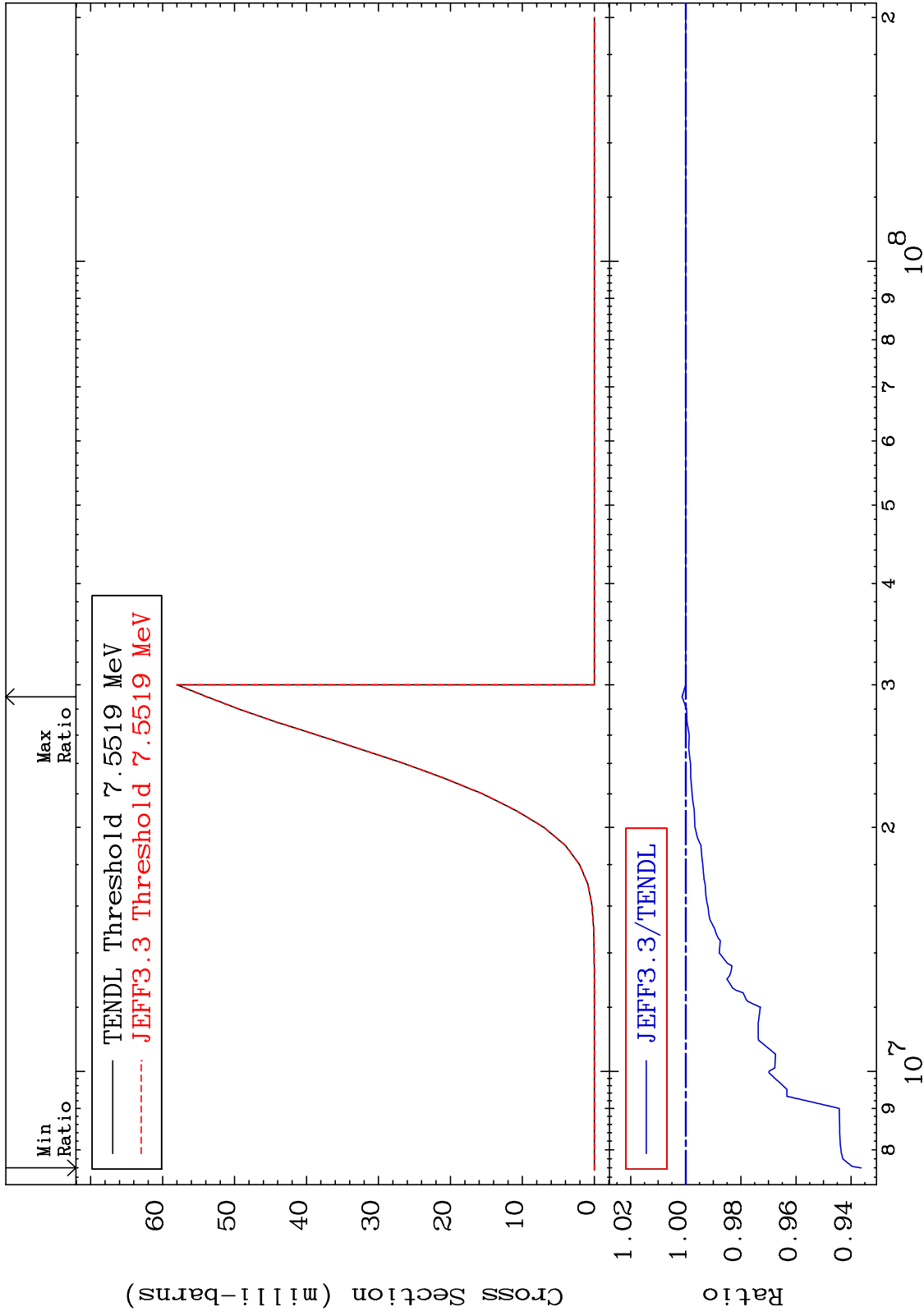
MAT 7837

(n, n') p

78-Pt-194

-6.365 To 0.135 %

Cross Section

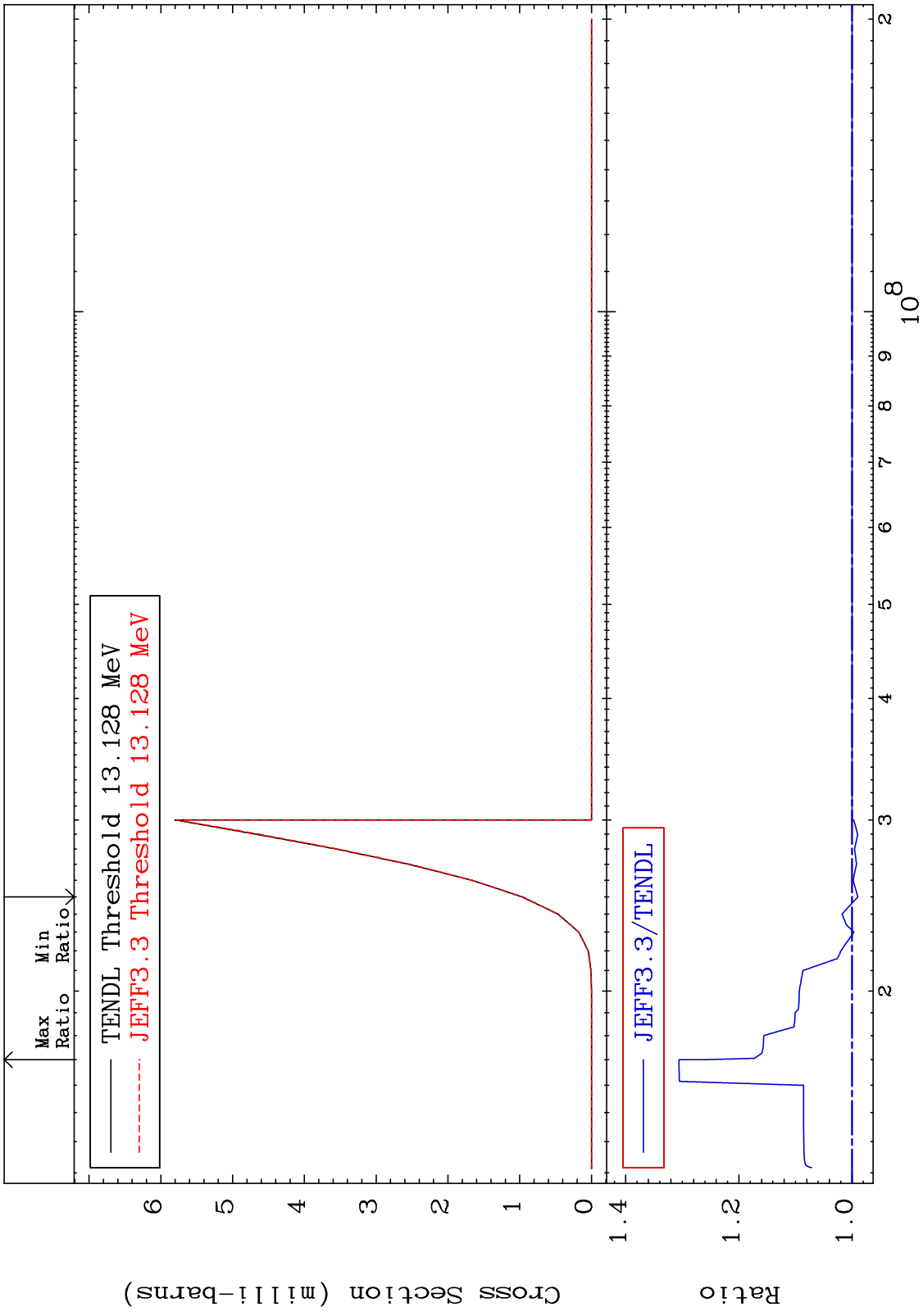


10

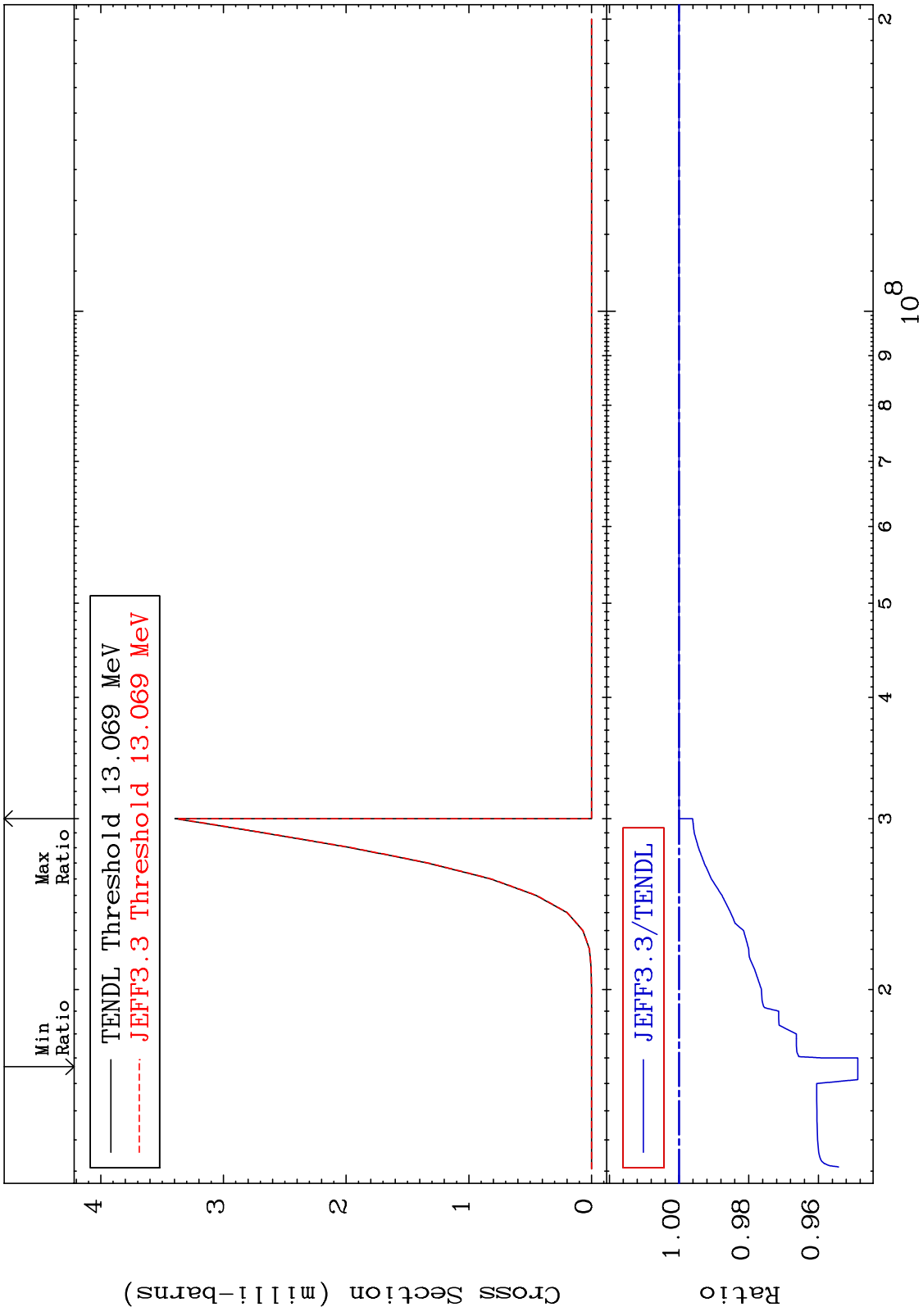
Incident Energy (eV)

78-Pt-194

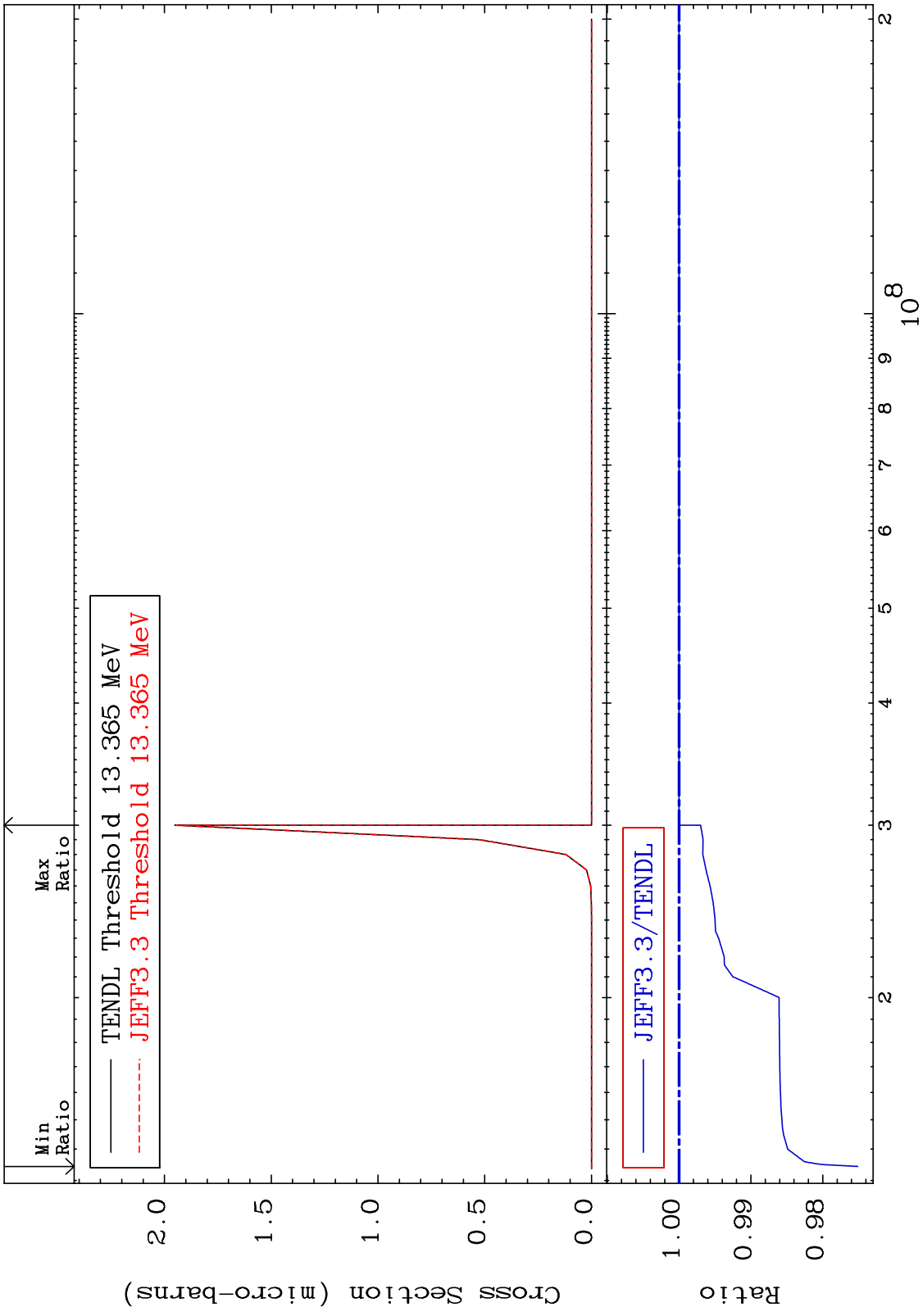
MAT 7837 (n, n') d 78-Pt-194
 Cross Section -1.024 To 30.57 %

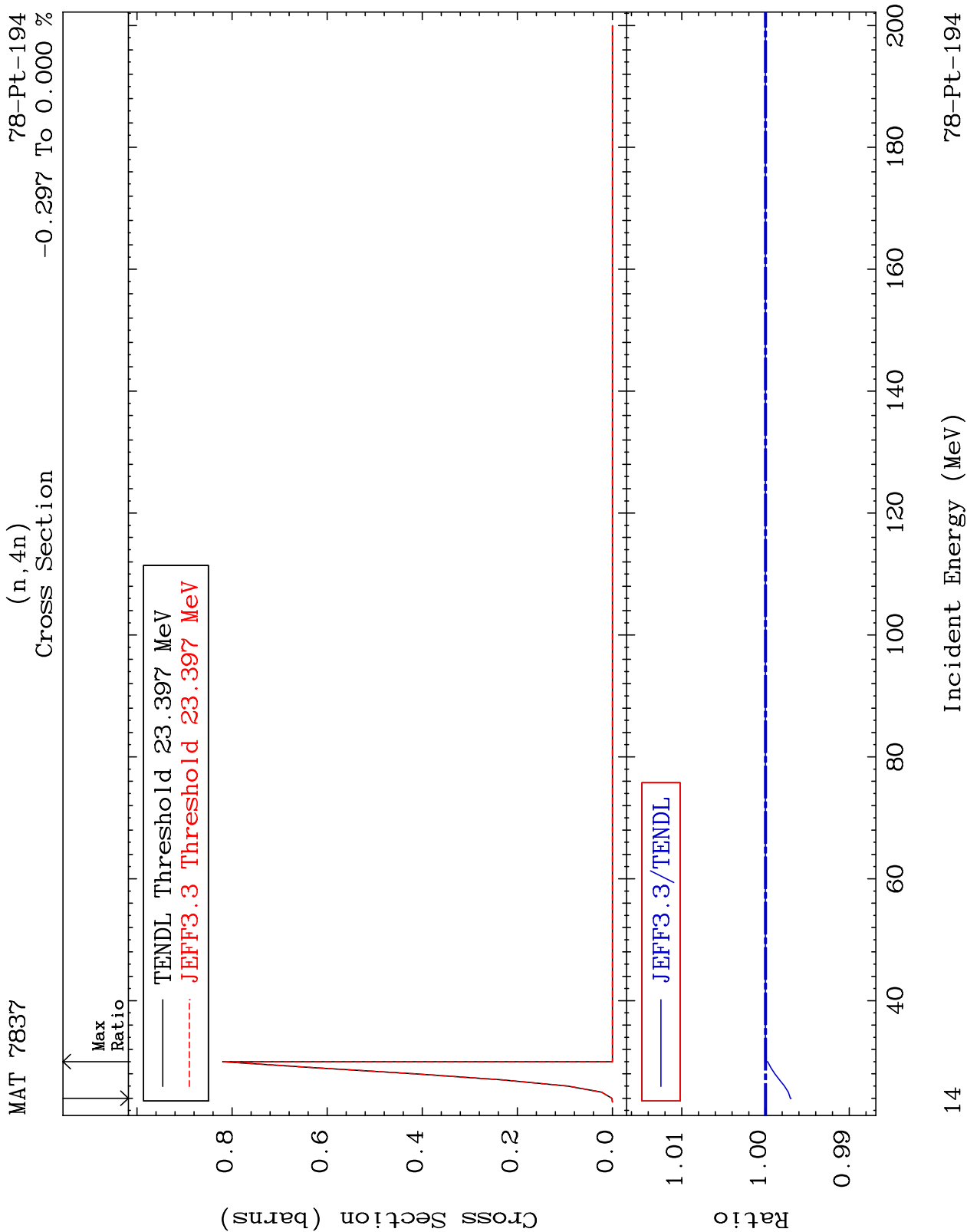


MAT 7837 (n, n') t 78-Pt-194
 Cross Section -5.131 To 0.000 %

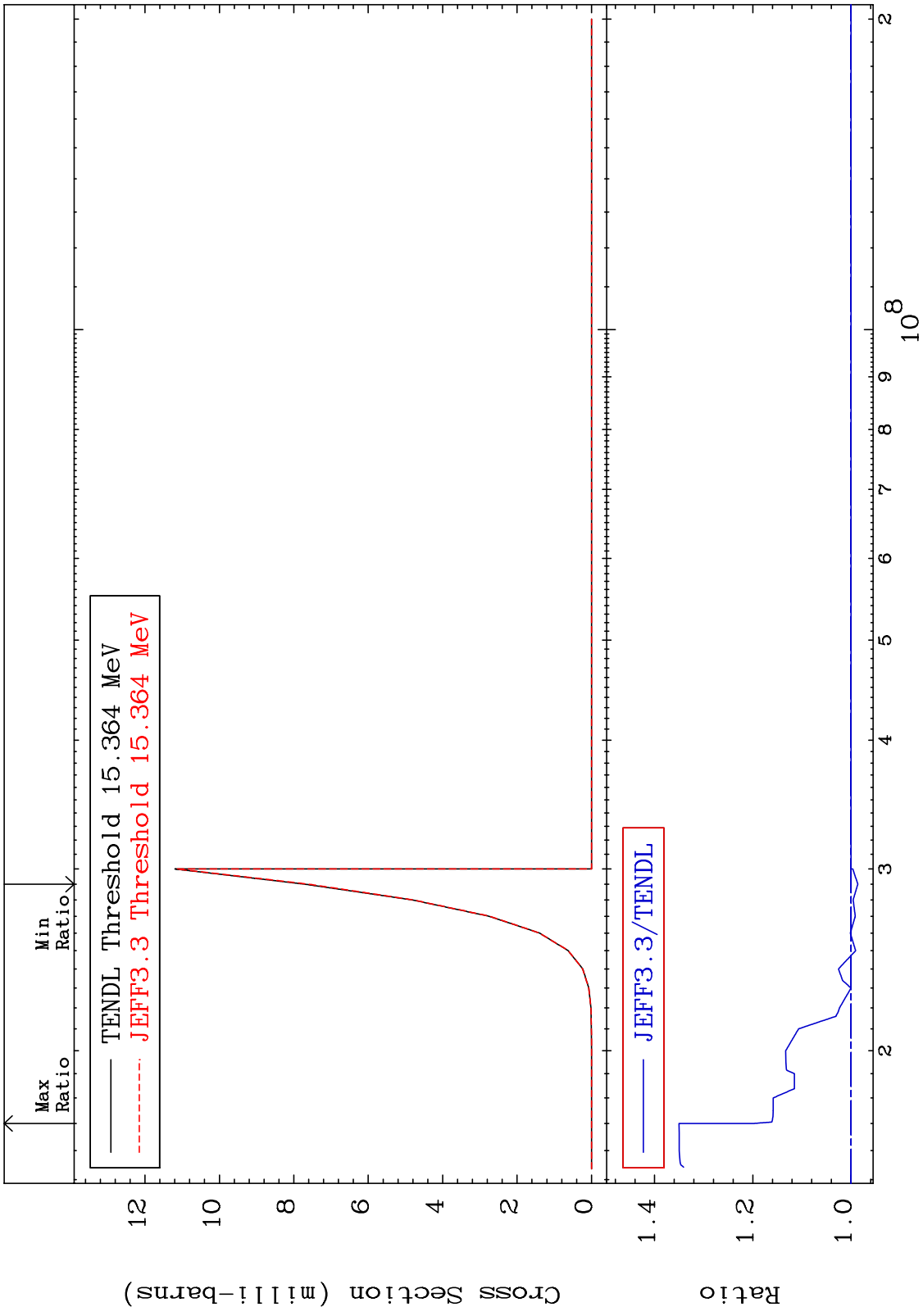


MAT 7837 (n, n') He-3 78-Pt-194
 Cross Section -2.488 To 0.000 %

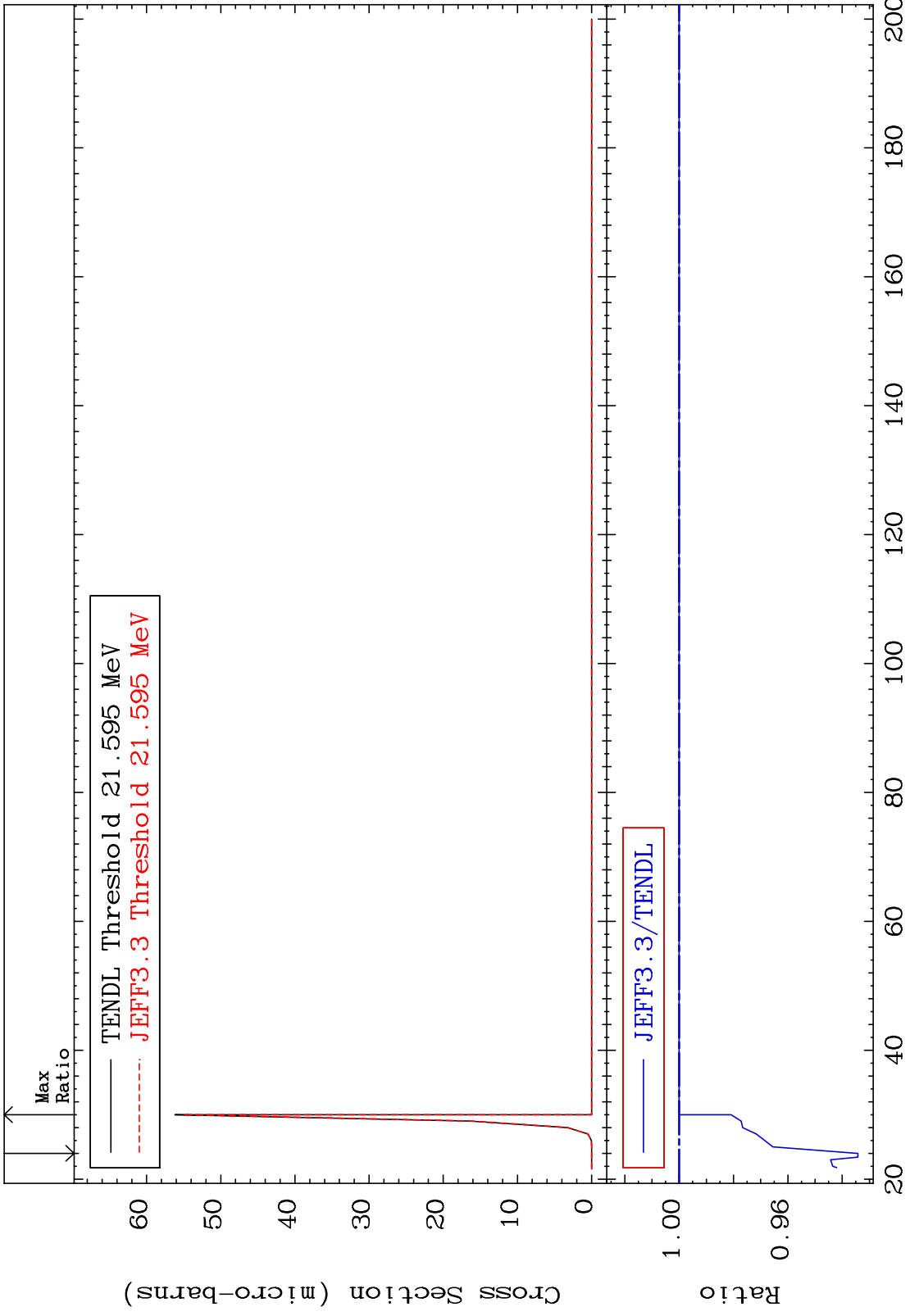




MAT 7837 (n,2n) p 78-Pt-194
Cross Section -1.387 To 35.02 %

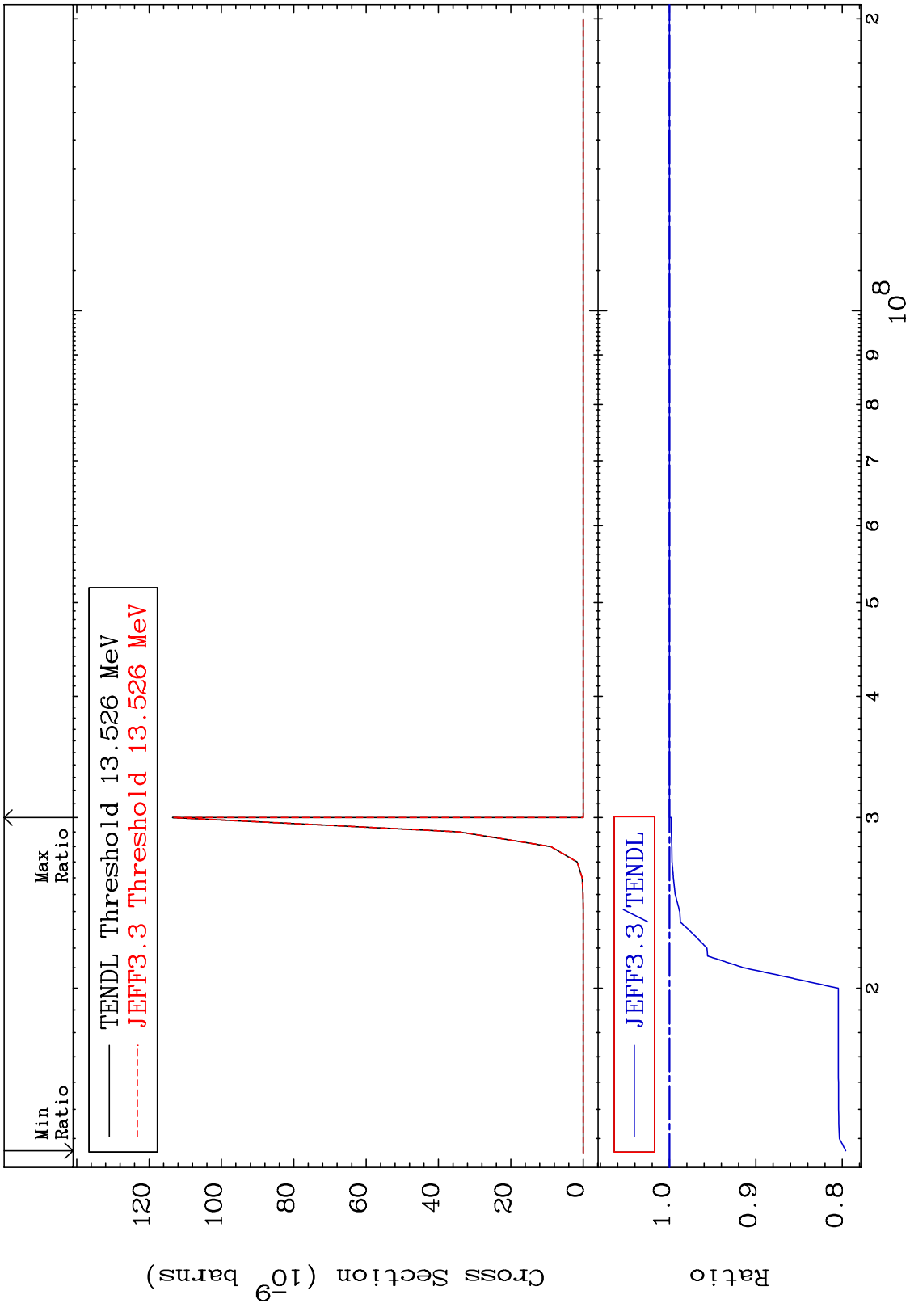


MAT 7837 (n,3n) p 78-Pt-194
Cross Section -6.578 To 0.000 %

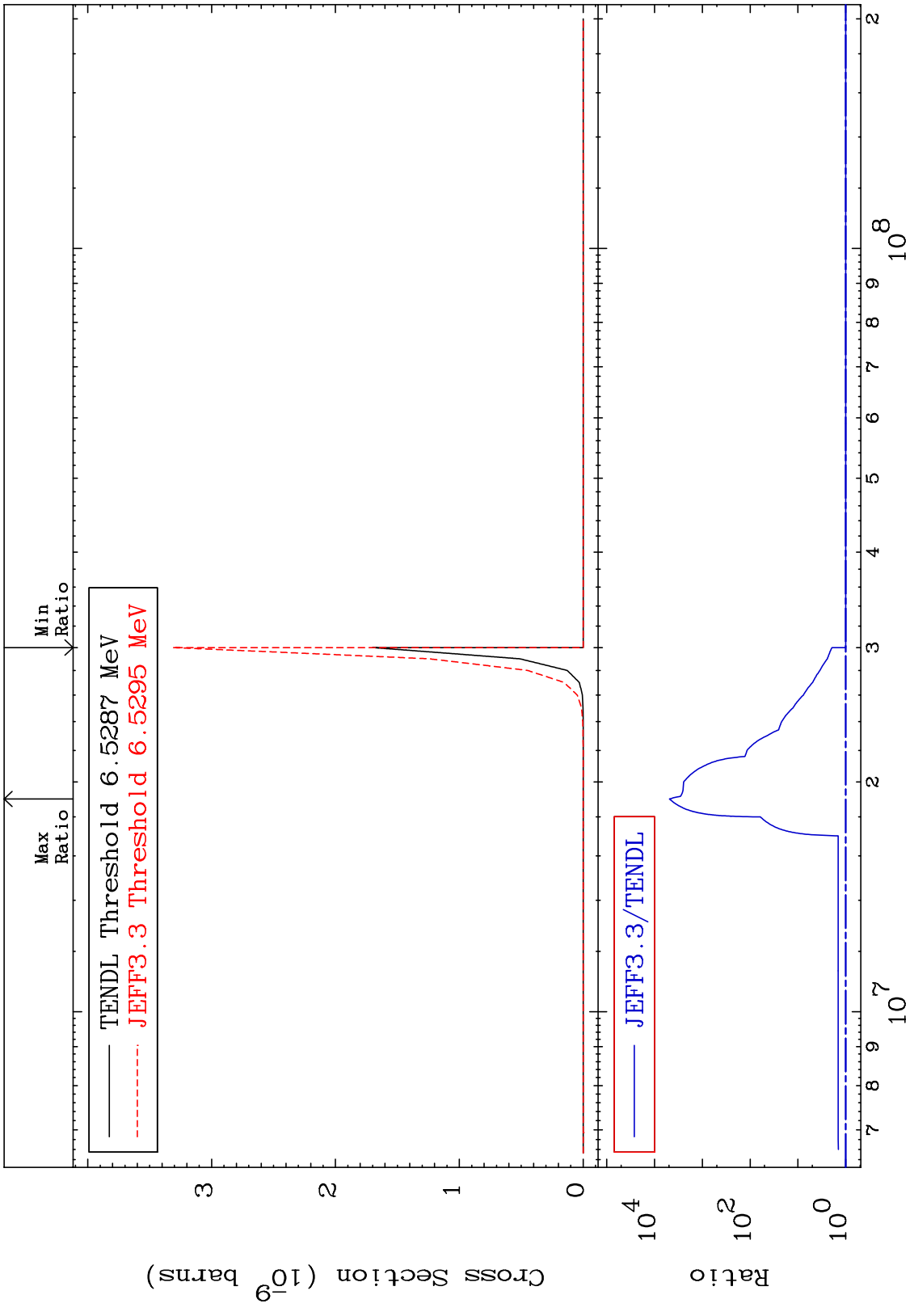


16 78-Pt-194

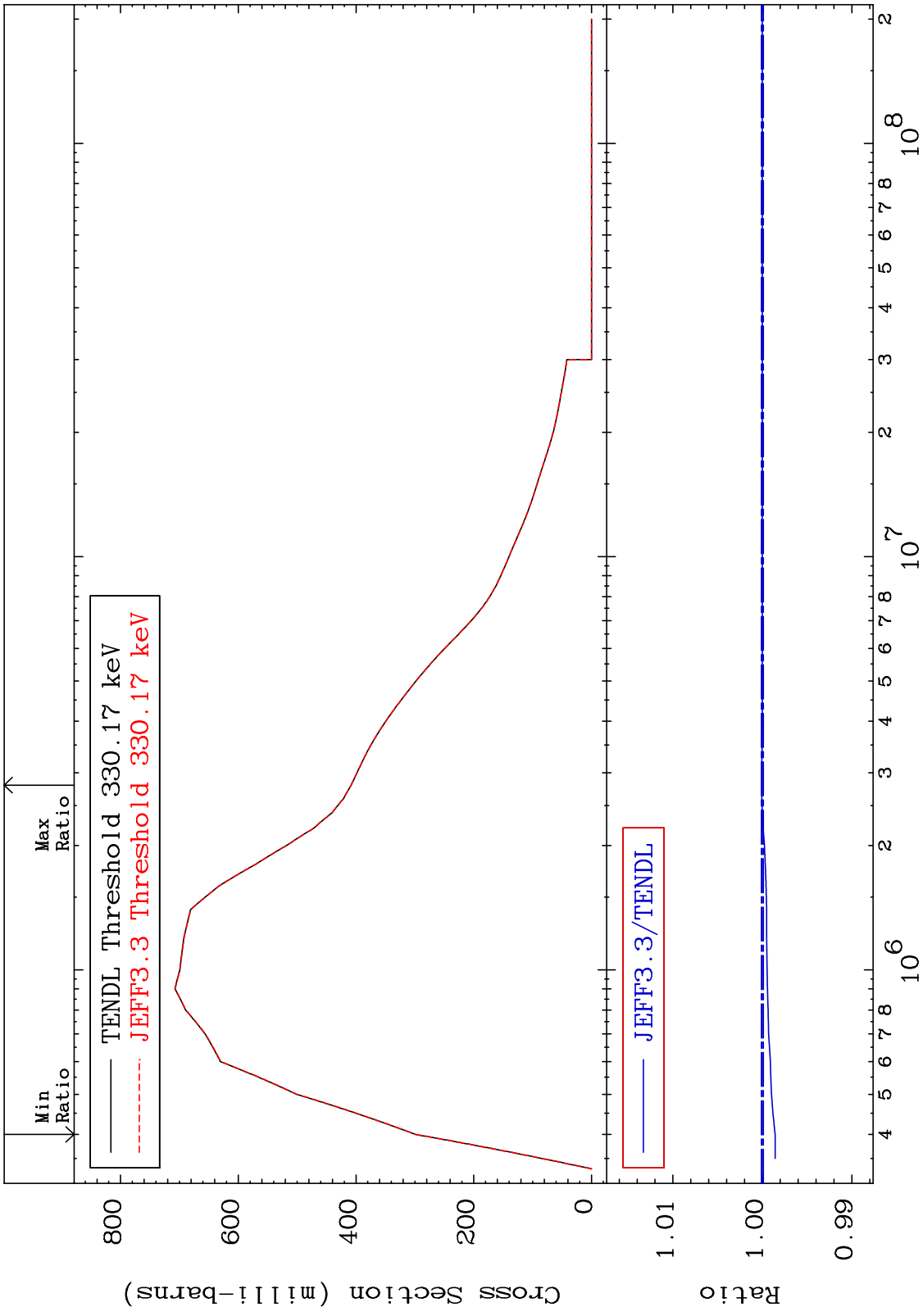
MAT 7837 (n,2n) p 78-Pt-194
 Cross Section -20.40 To 0.000 %



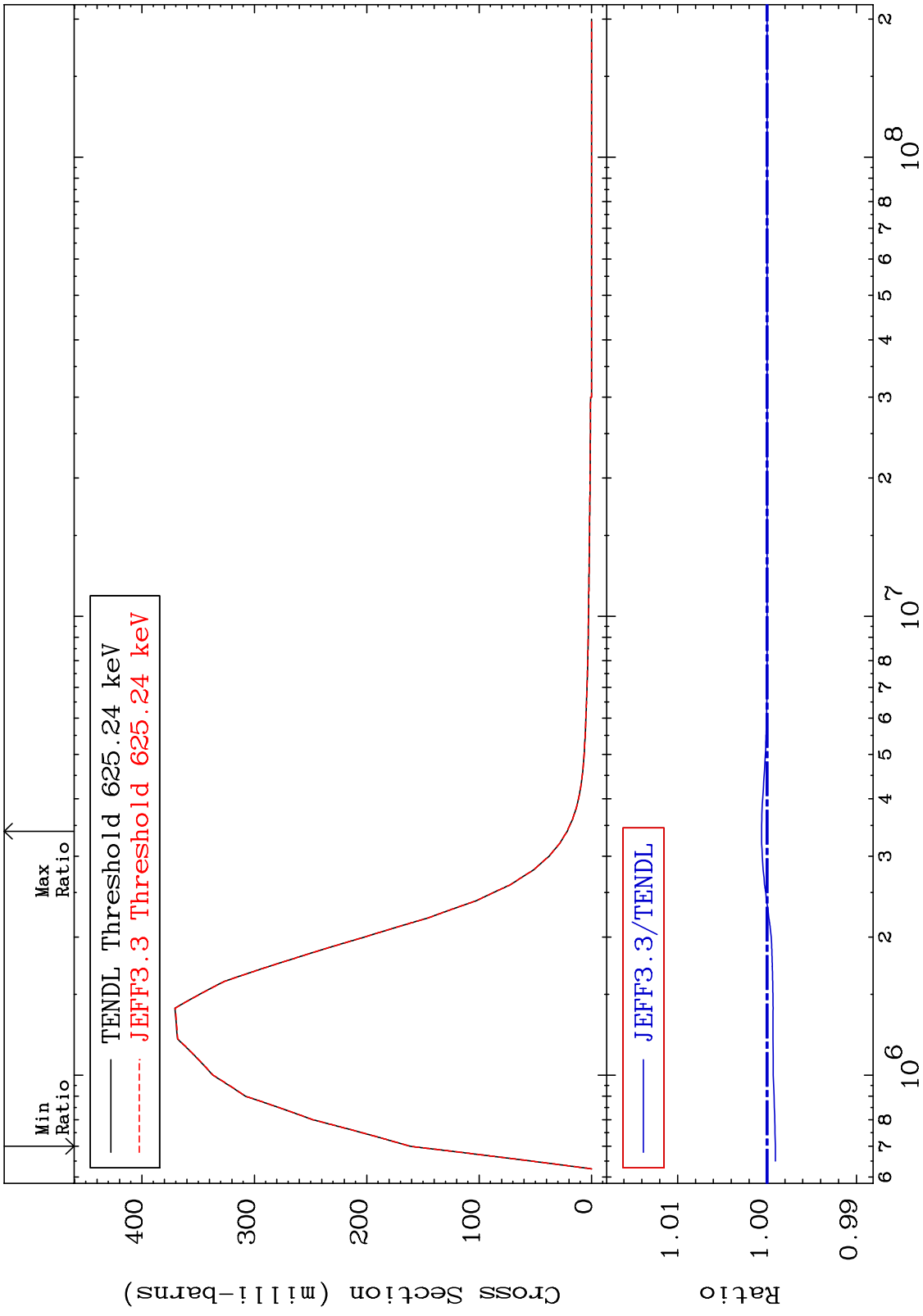
MAT 7837 (n,n') p α 78-Pt-194
Cross Section 0.000 To 9999. %



MAT 7837 MT= 51 (n,n') Level Cross Section 78-Pt-194 -0.142 To 0.006 %



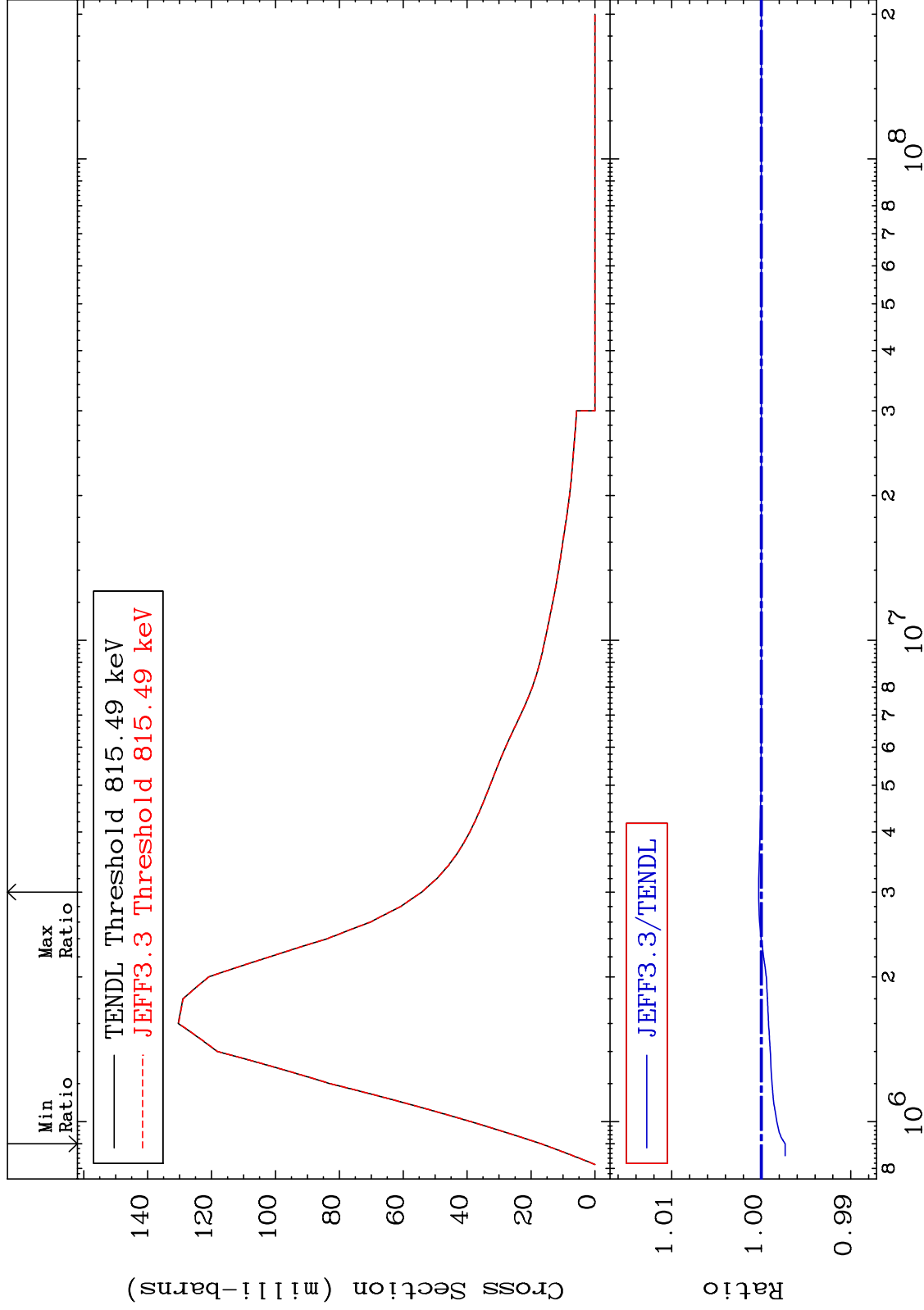
MAT 7837 MT= 52 (n,n') Level Cross Section 78-Pt-194 -0.092 To 0.061 %



MAT 7837

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

78-Pt-194
-0.266 To 0.029 %

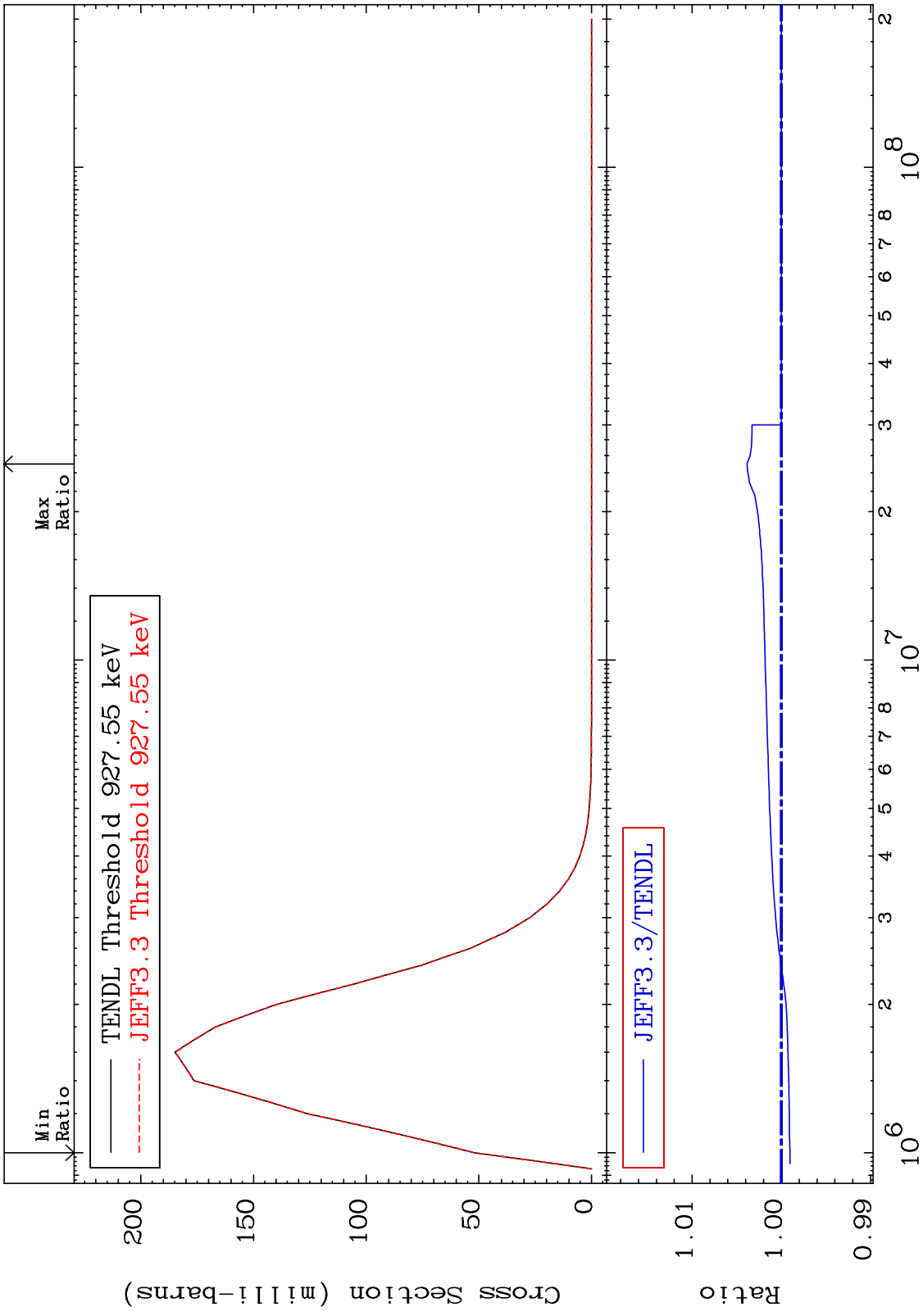


21

Incident Energy (eV)

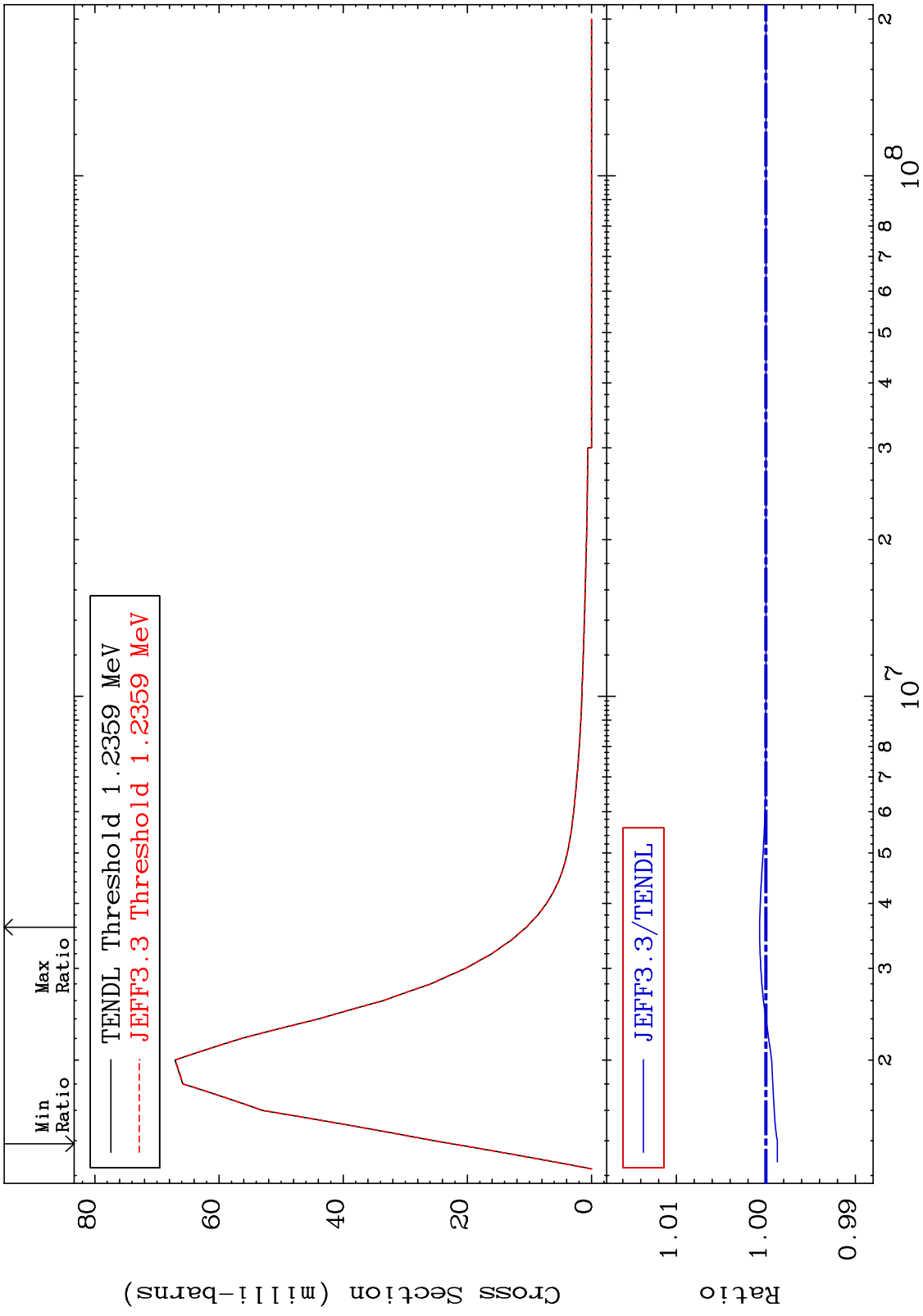
78-Pt-194

MAT 7837 MT= 54 (n,n') Level Cross Section 78-Pt-194
 -0.097 To 0.386 %

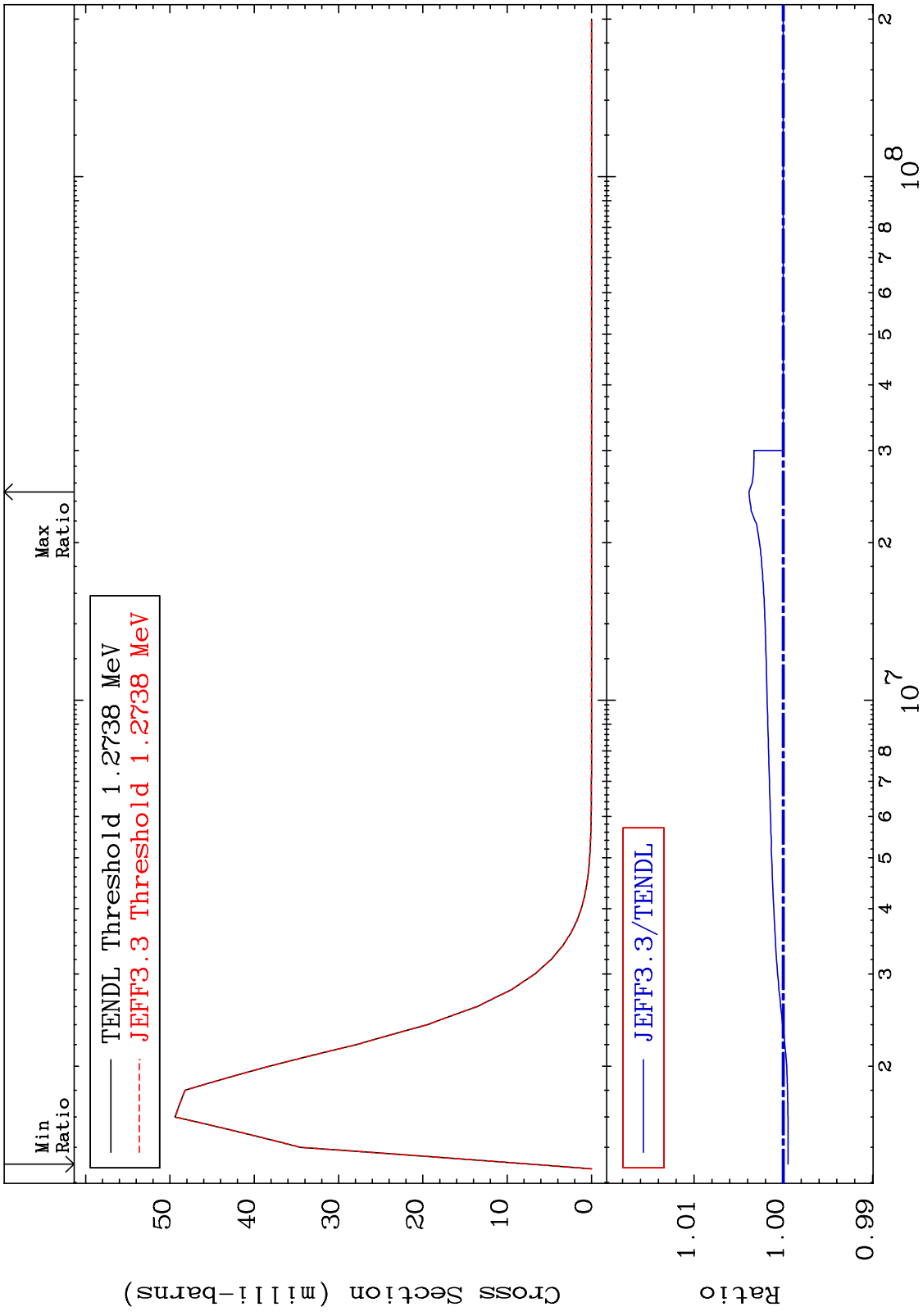


Incident Energy (eV) 78-Pt-194

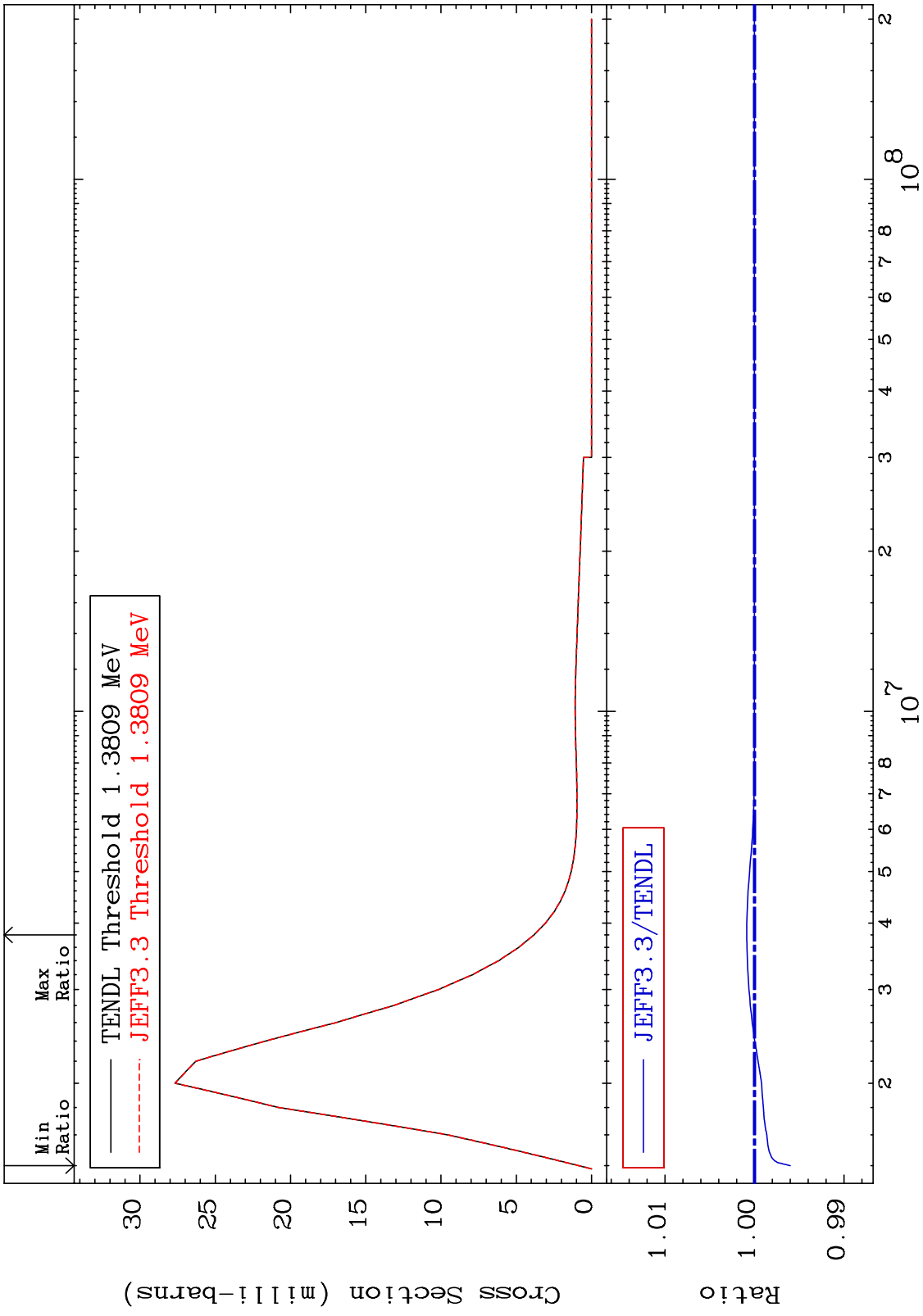
MAT 7837 MT= 55 (n,n') Level Cross Section 78-Pt-194 -0.128 To 0.071 %



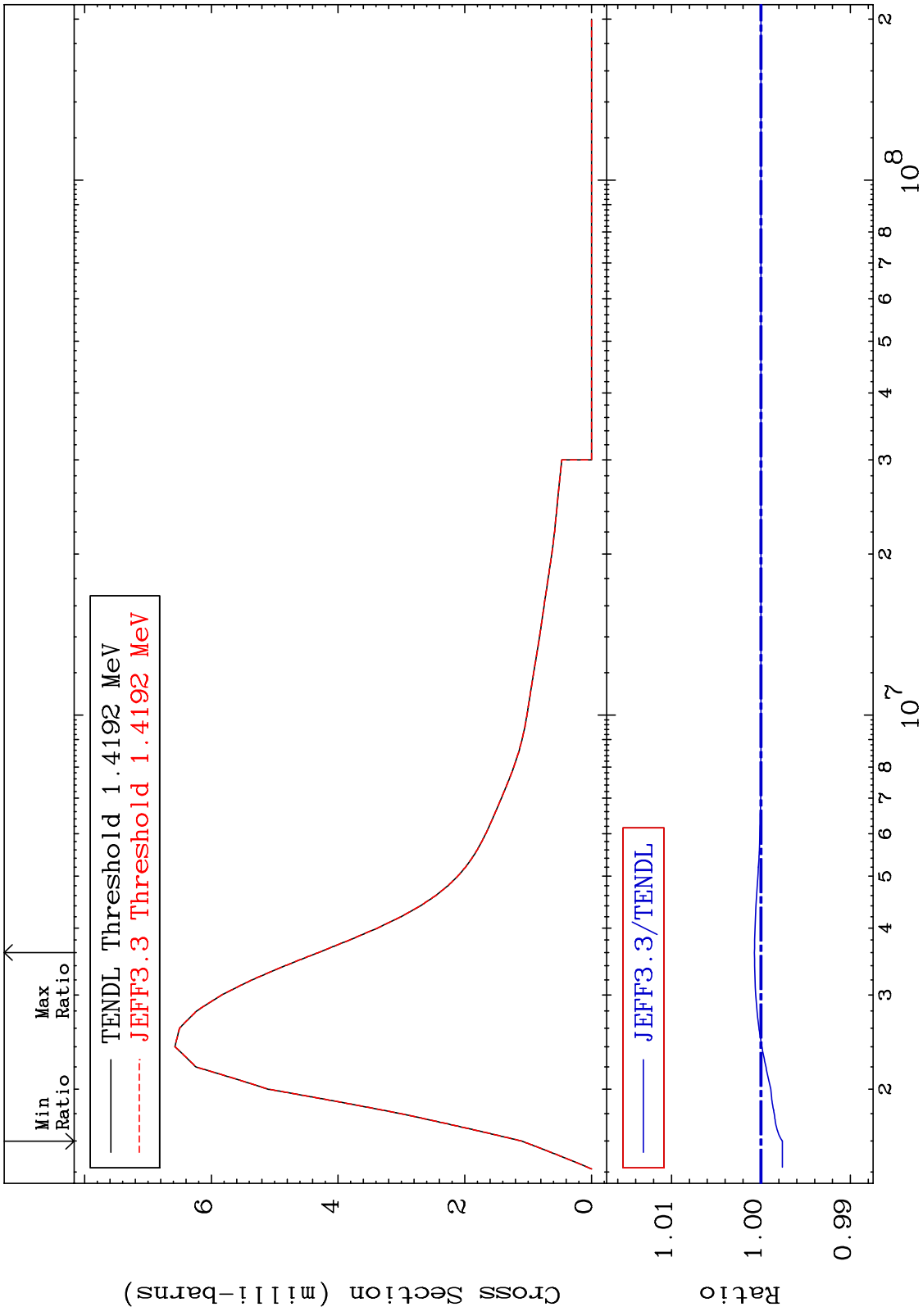
MAT 7837 MT= 56 (n,n') Level Cross Section 78-Pt-194 -0.052 To 0.386 %



MAT 7837 MT= 57 (n,n') Level Cross Section 78-Pt-194 -0.398 To 0.087 %



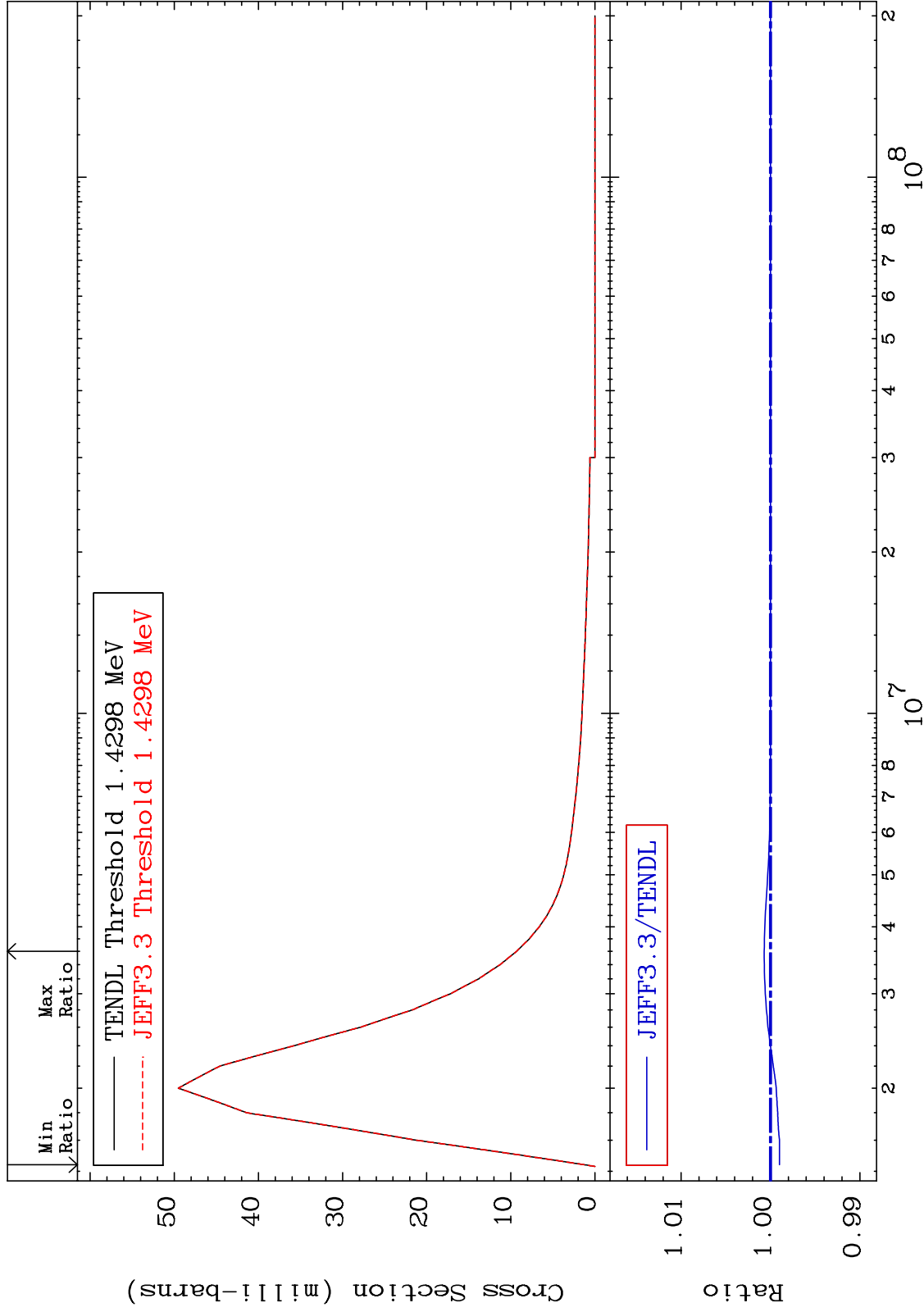
MAT 7837 MT= 58 (n,n') Level Cross Section 78-Pt-194 -0.240 To 0.073 %



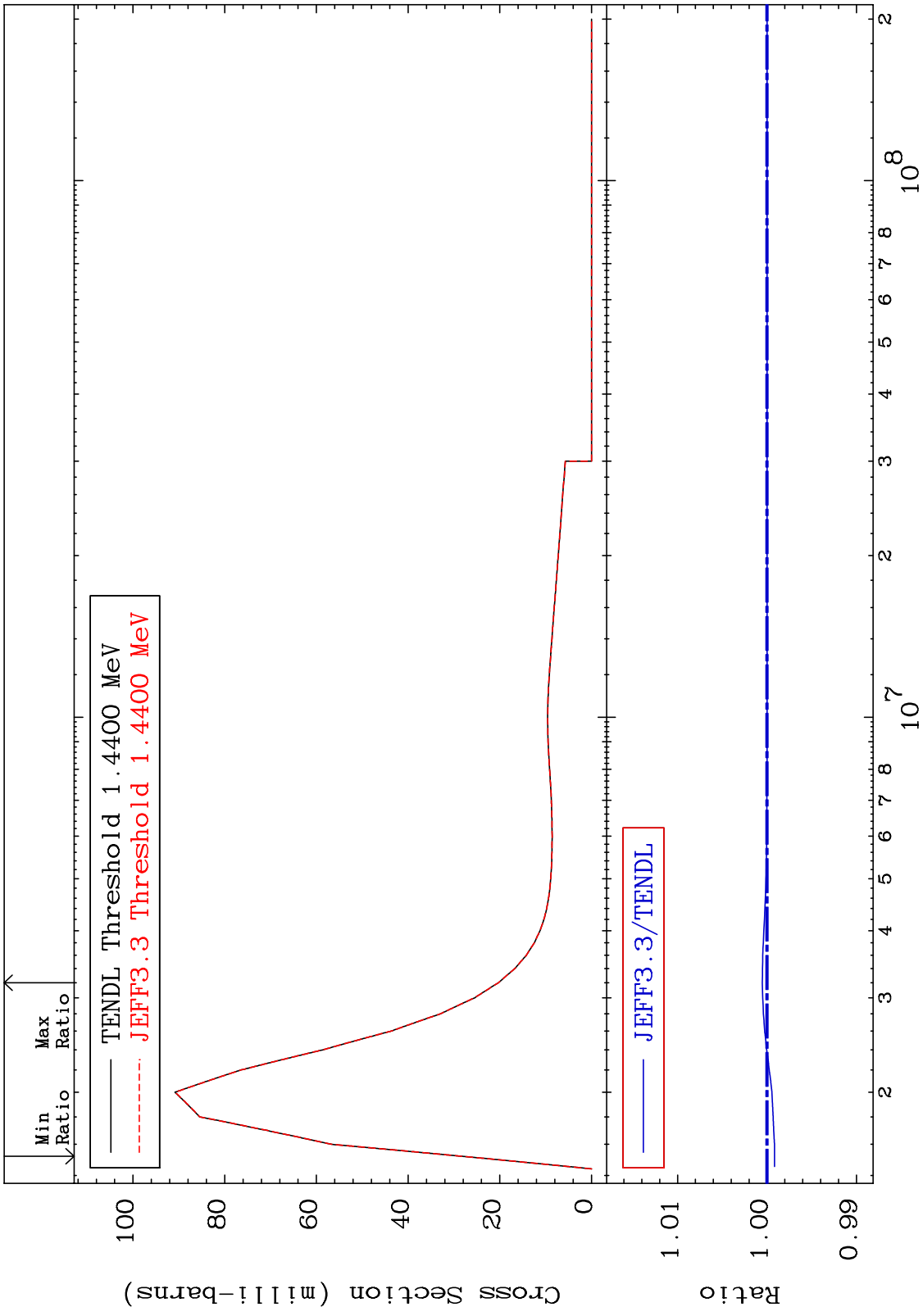
MAT 7837

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

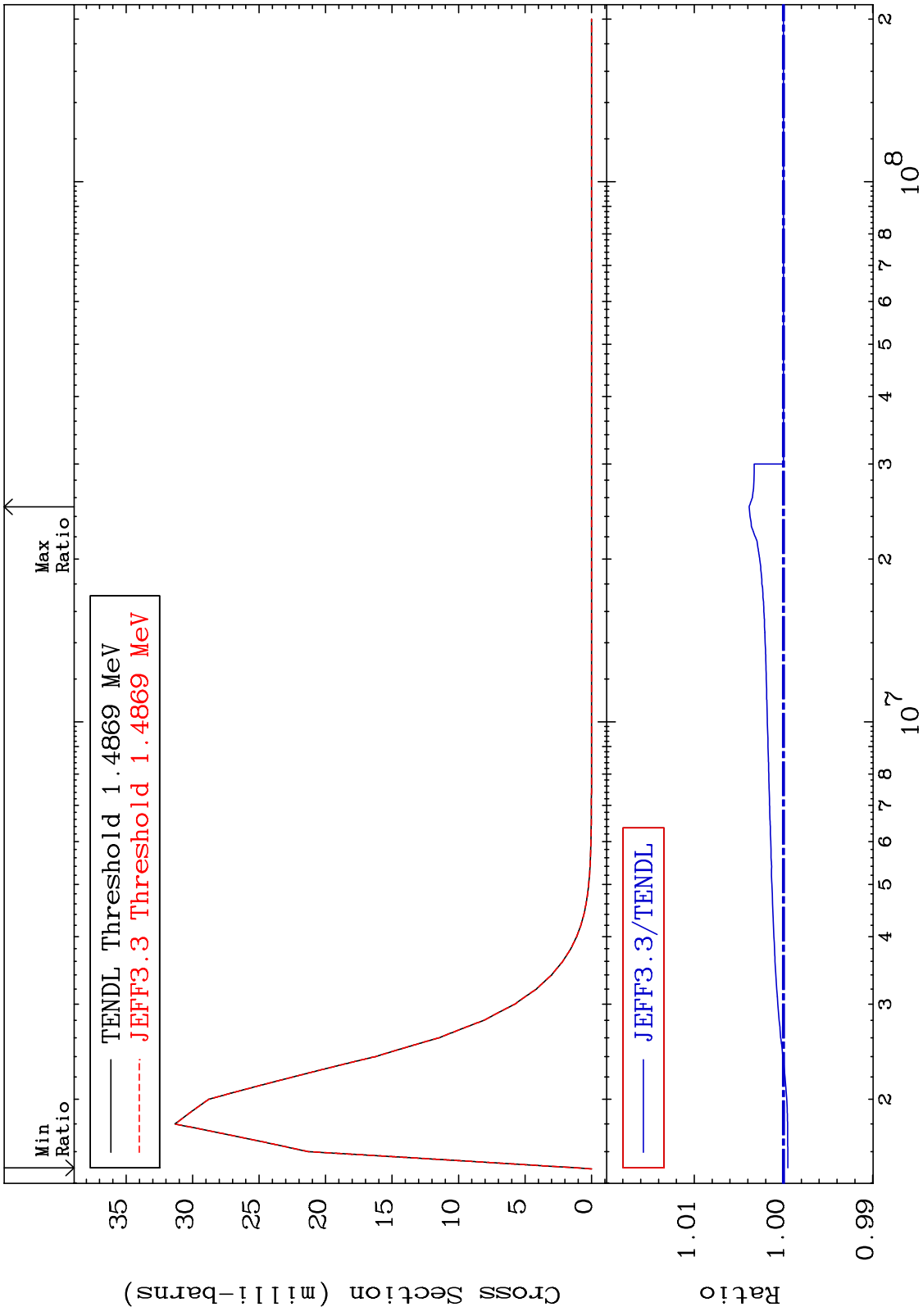
78-Pt-194
-0.101 To 0.070 %



MAT 7837 MT= 60 (n,n') Level Cross Section 78-Pt-194 -0.084 To 0.052 %



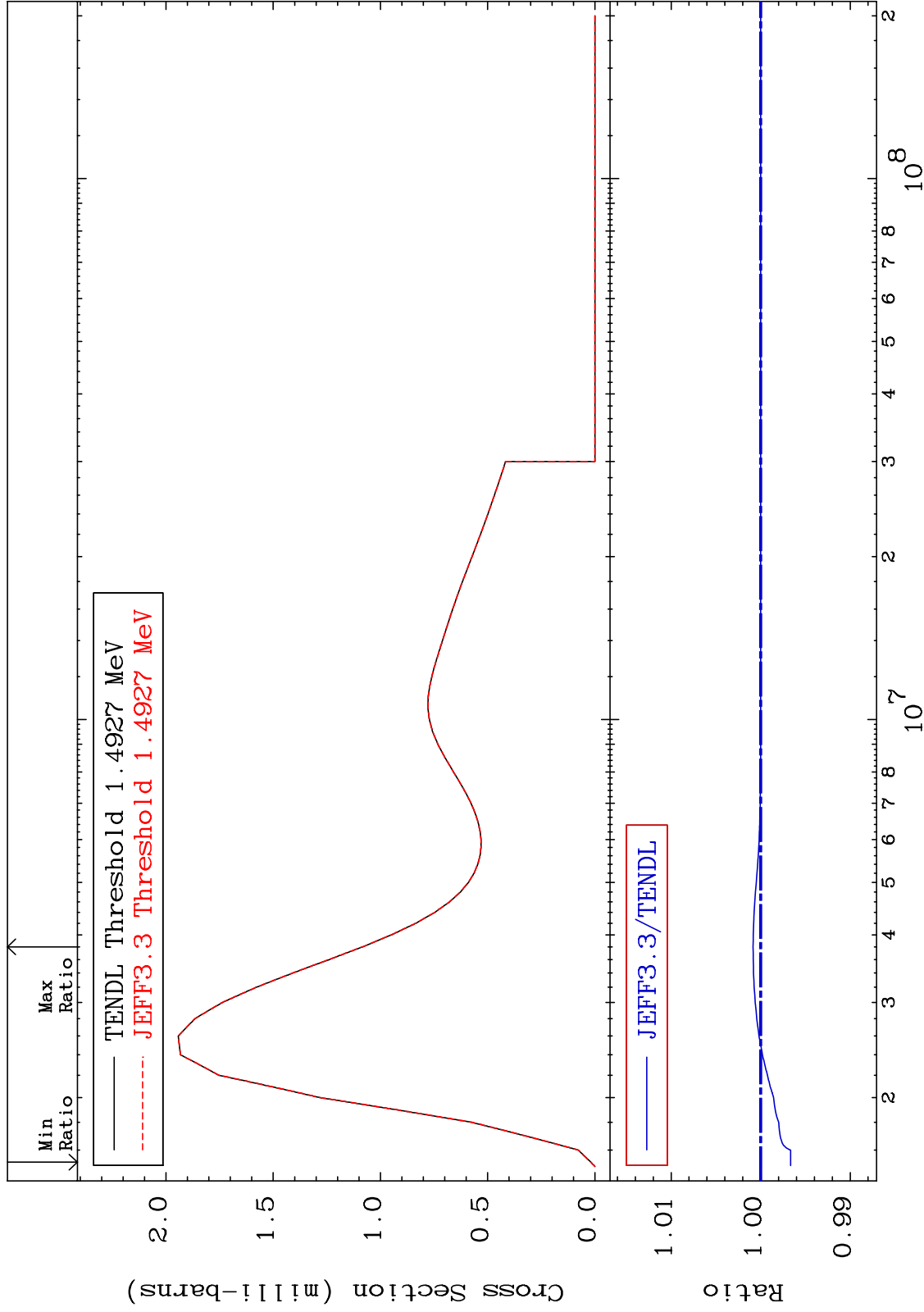
MAT 7837 MT= 61 (n,n') Level Cross Section 78-Pt-194
 -0.048 To 0.386 %



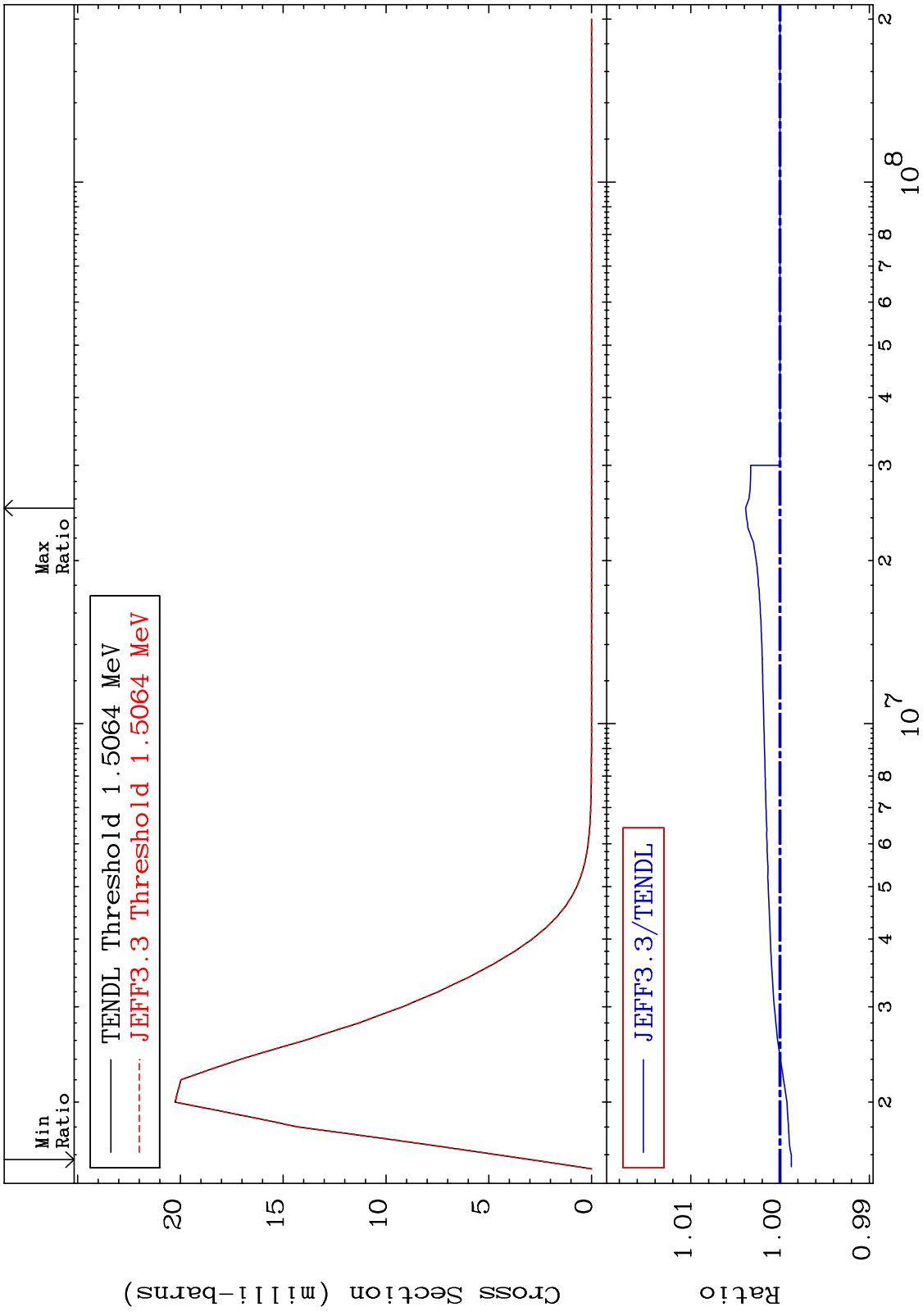
MAT 7837

MT= 62 (n,n') Level
Cross Section

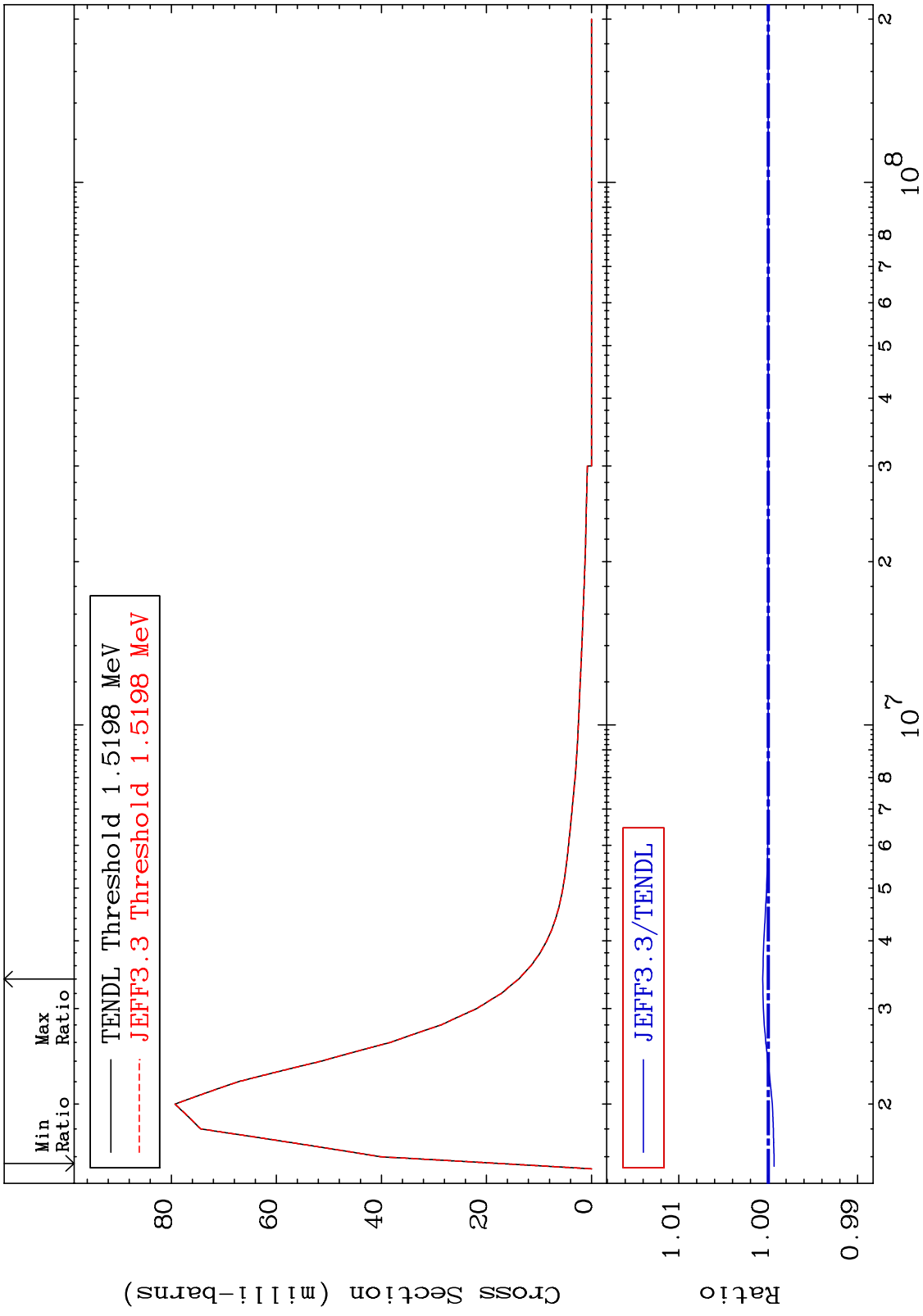
78-Pt-194
-0.335 To 0.085 %



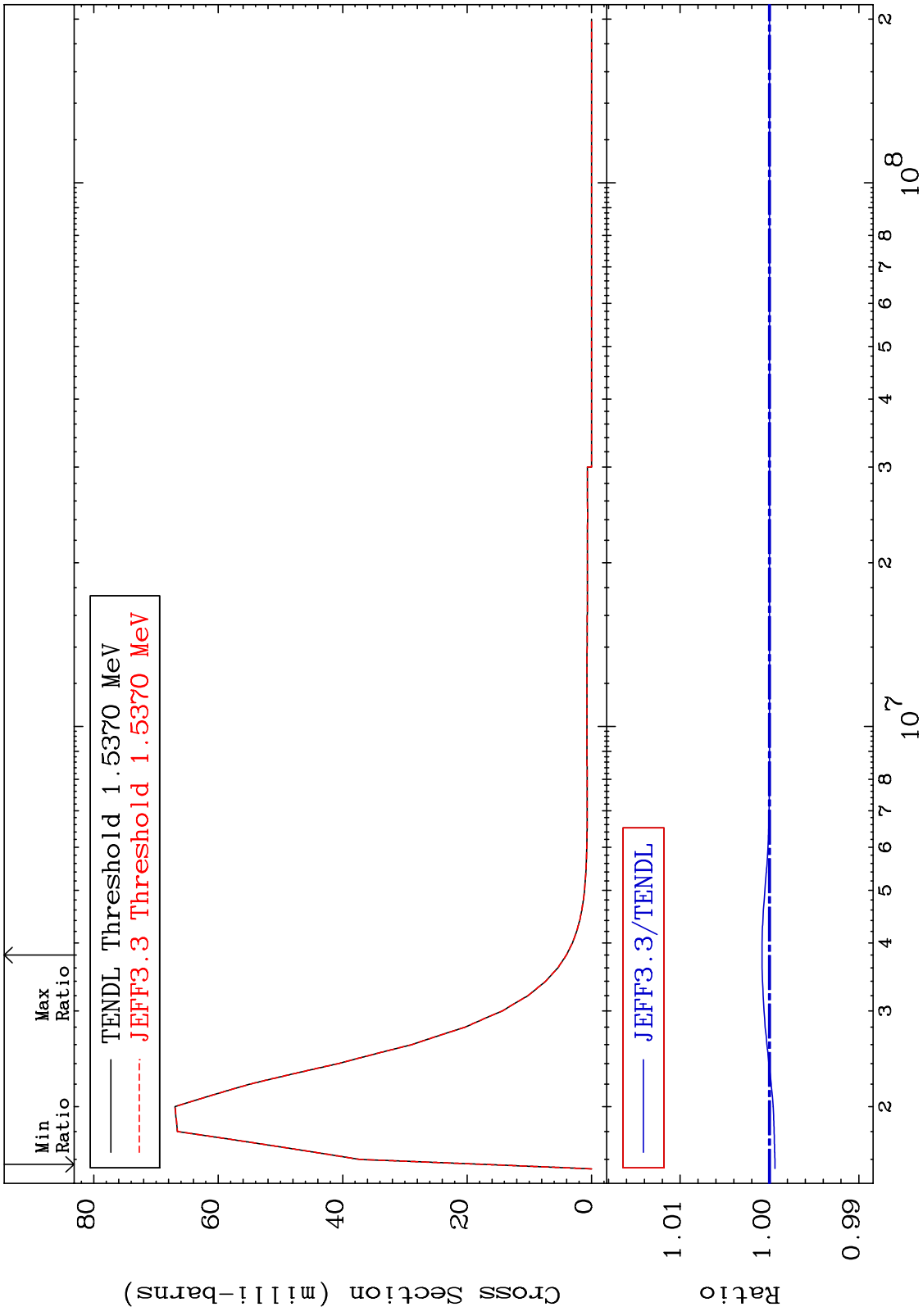
MAT 7837 MT= 63 (n,n') Level Cross Section 78-Pt-194 -0.126 To 0.386 %



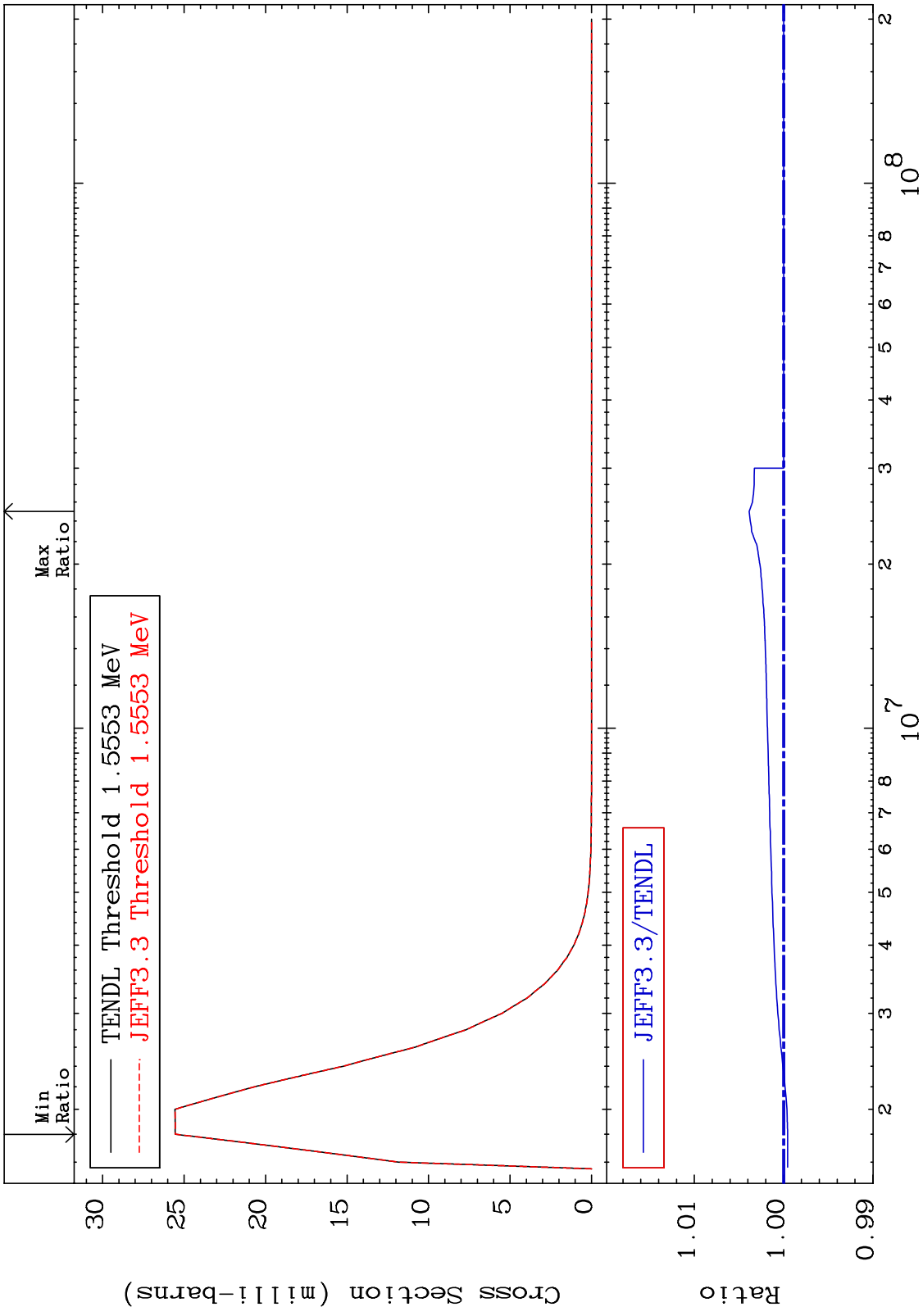
MAT 7837 MT= 64 (n,n') Level Cross Section 78-Pt-194 -0.065 To 0.061 %



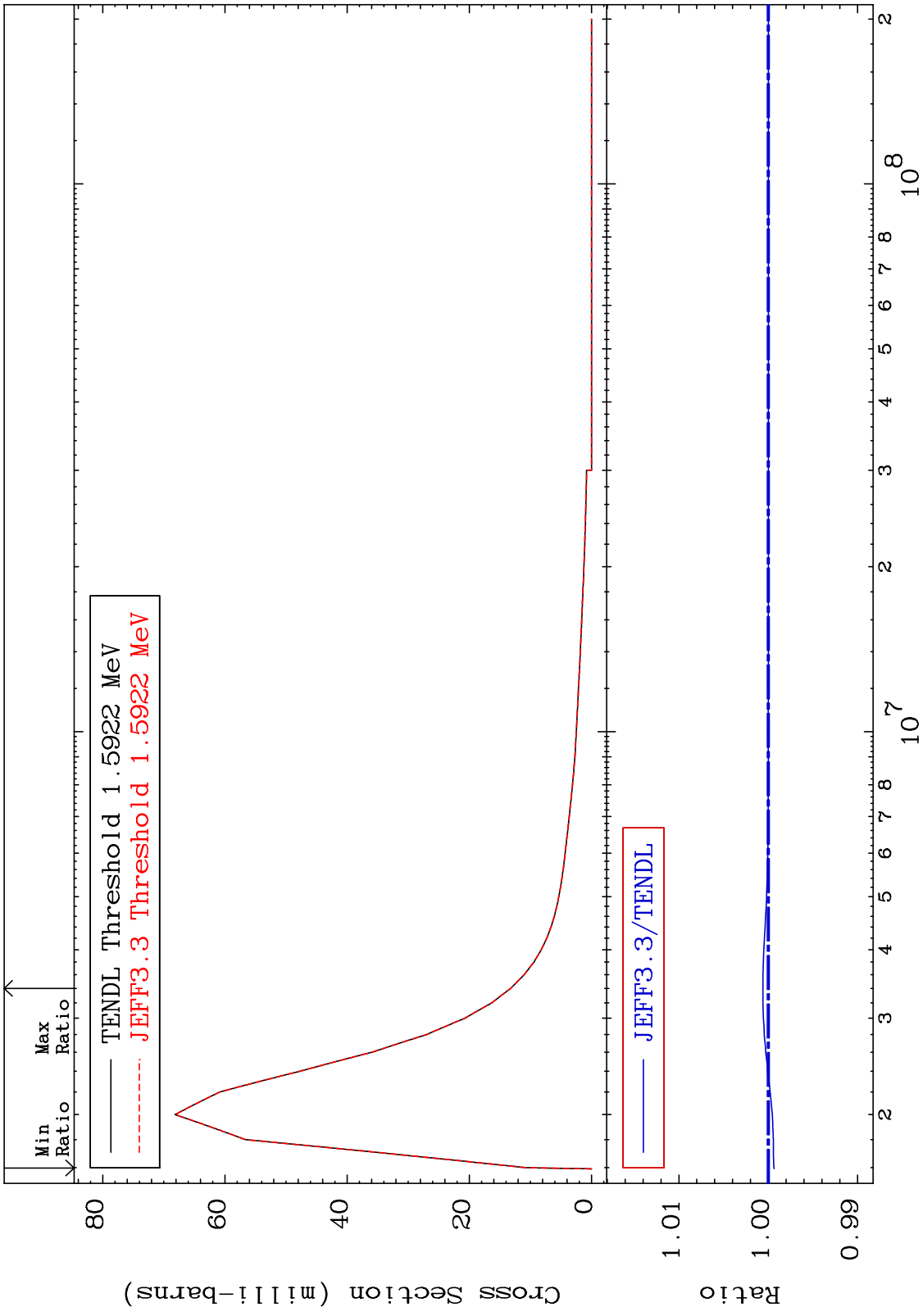
MAT 7837 MT= 65 (n,n') Level Cross Section 78-Pt-194 -0.060 To 0.085 %



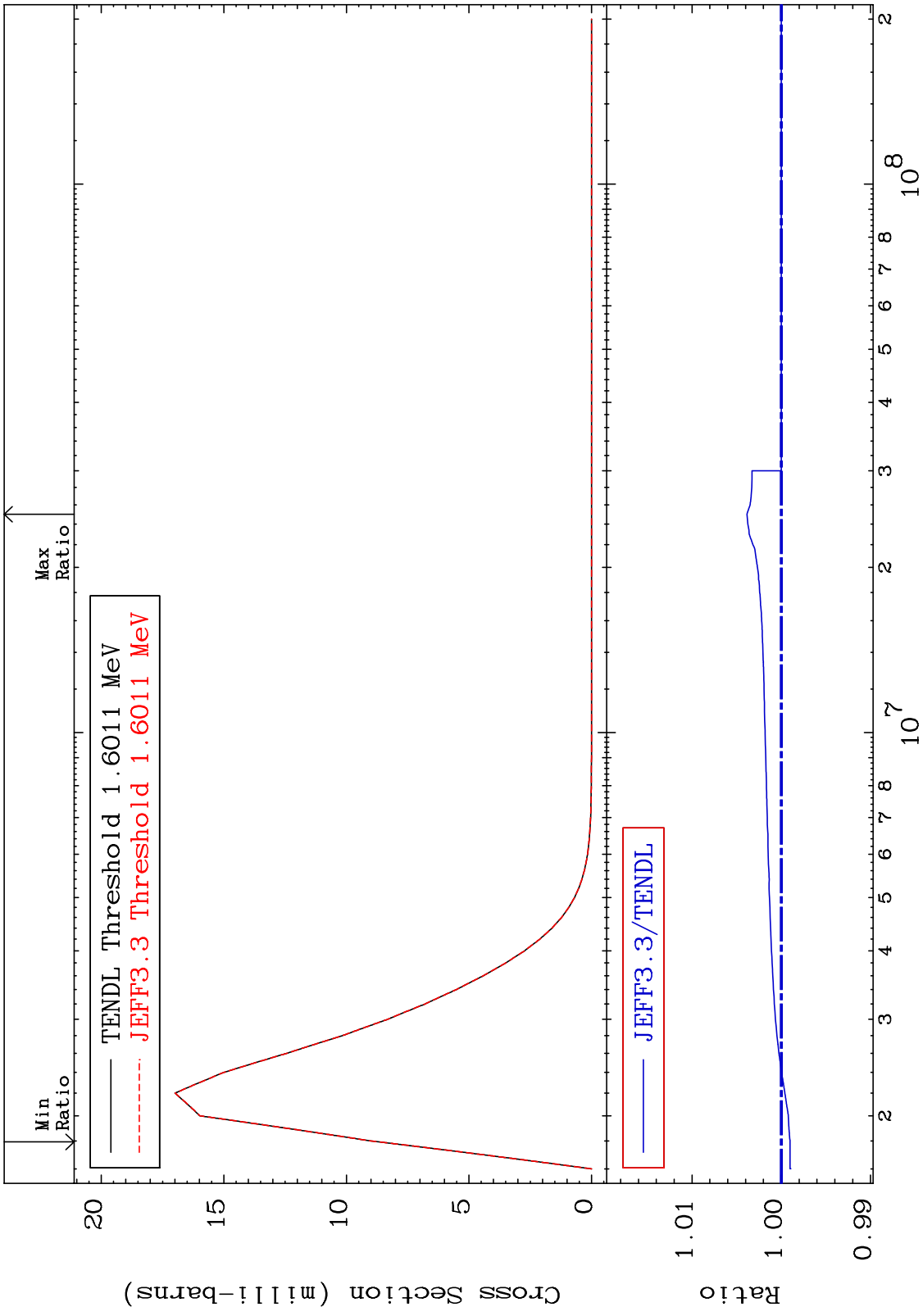
MAT 7837 MT= 66 (n,n') Level Cross Section 78-Pt-194 -0.045 To 0.386 %



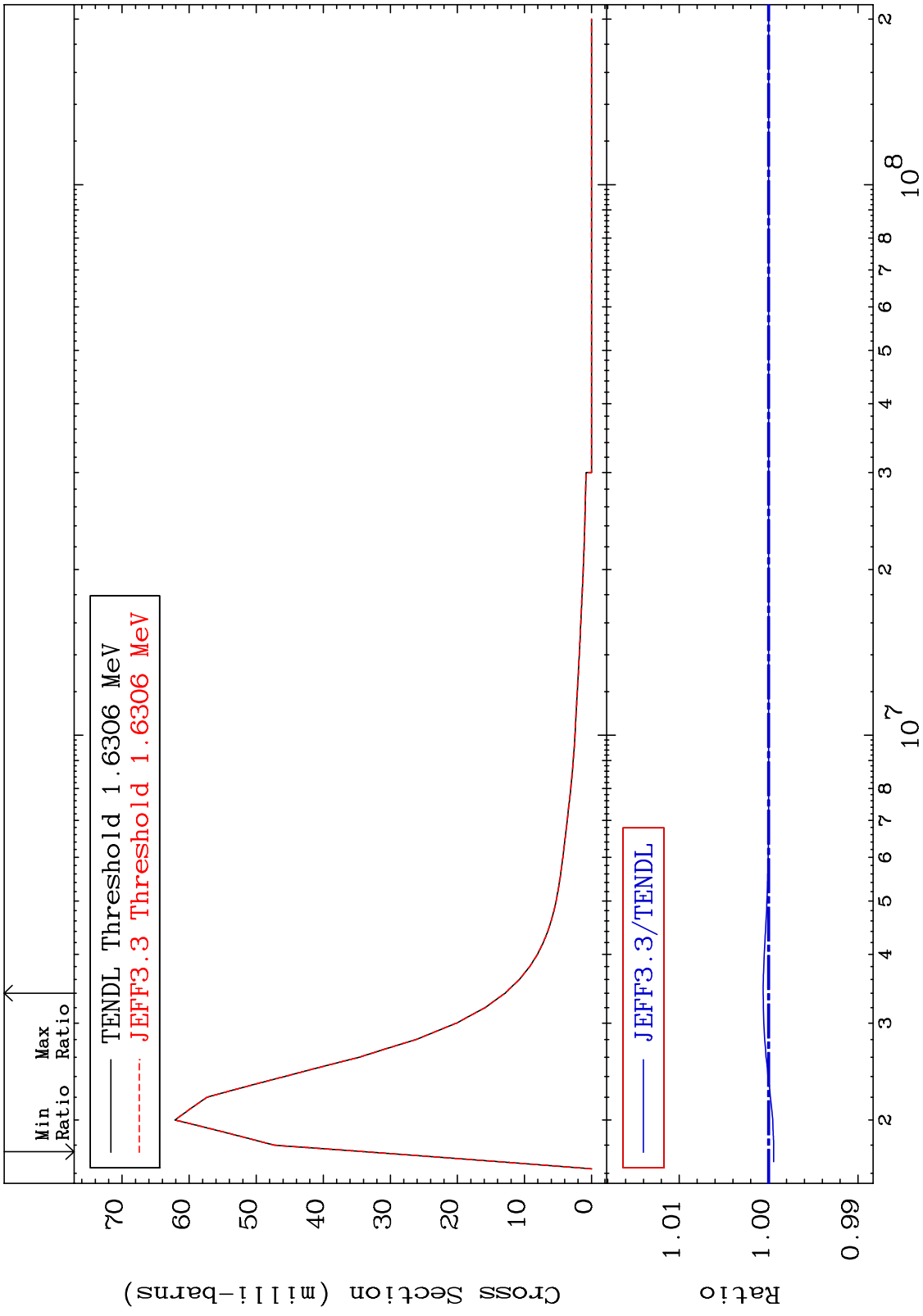
MAT 7837 MT= 67 (n,n') Level Cross Section 78-Pt-194 -0.064 To 0.061 %



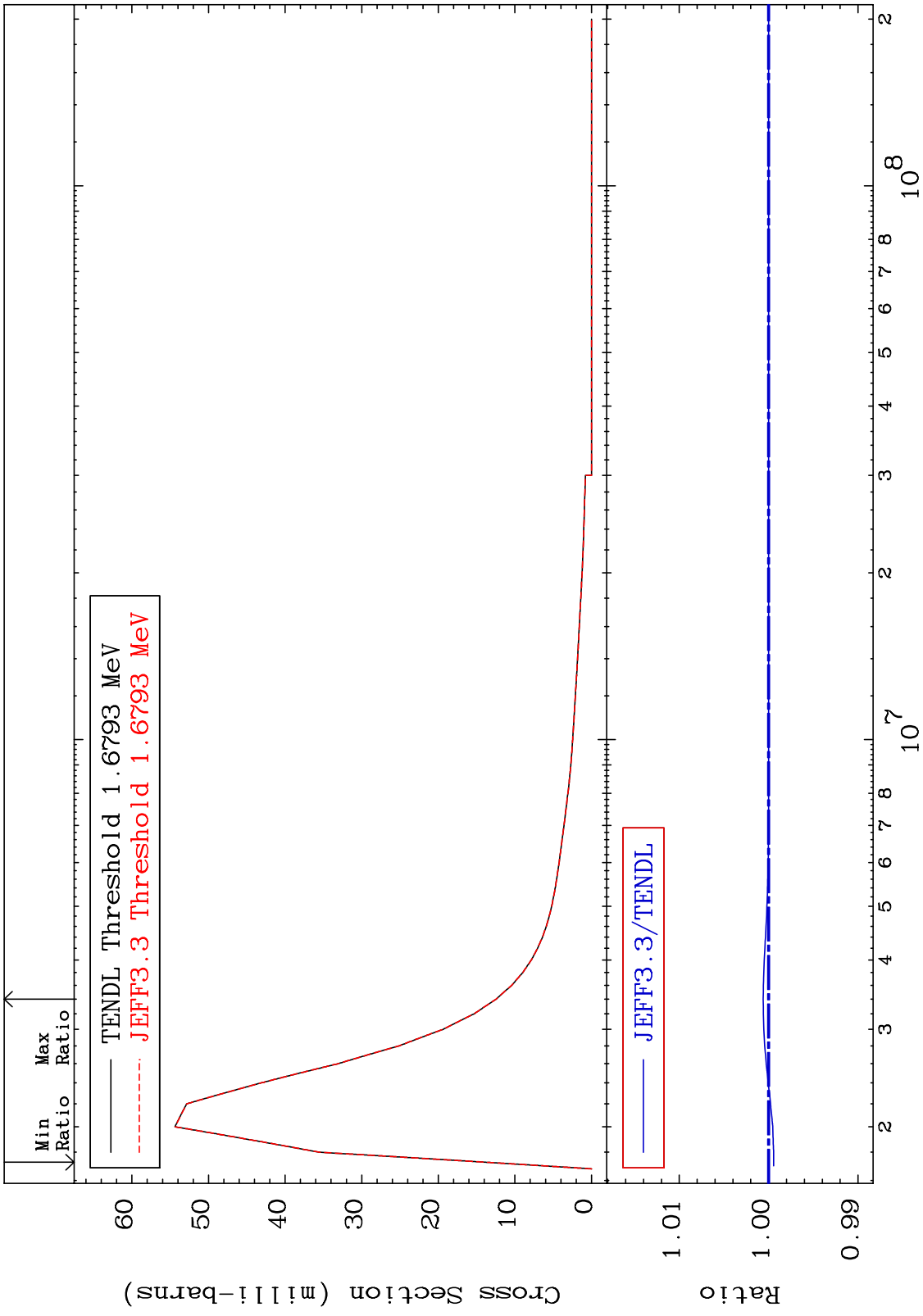
MAT 7837 MT= 68 (n,n') Level Cross Section 78-Pt-194 -0.098 To 0.386 %



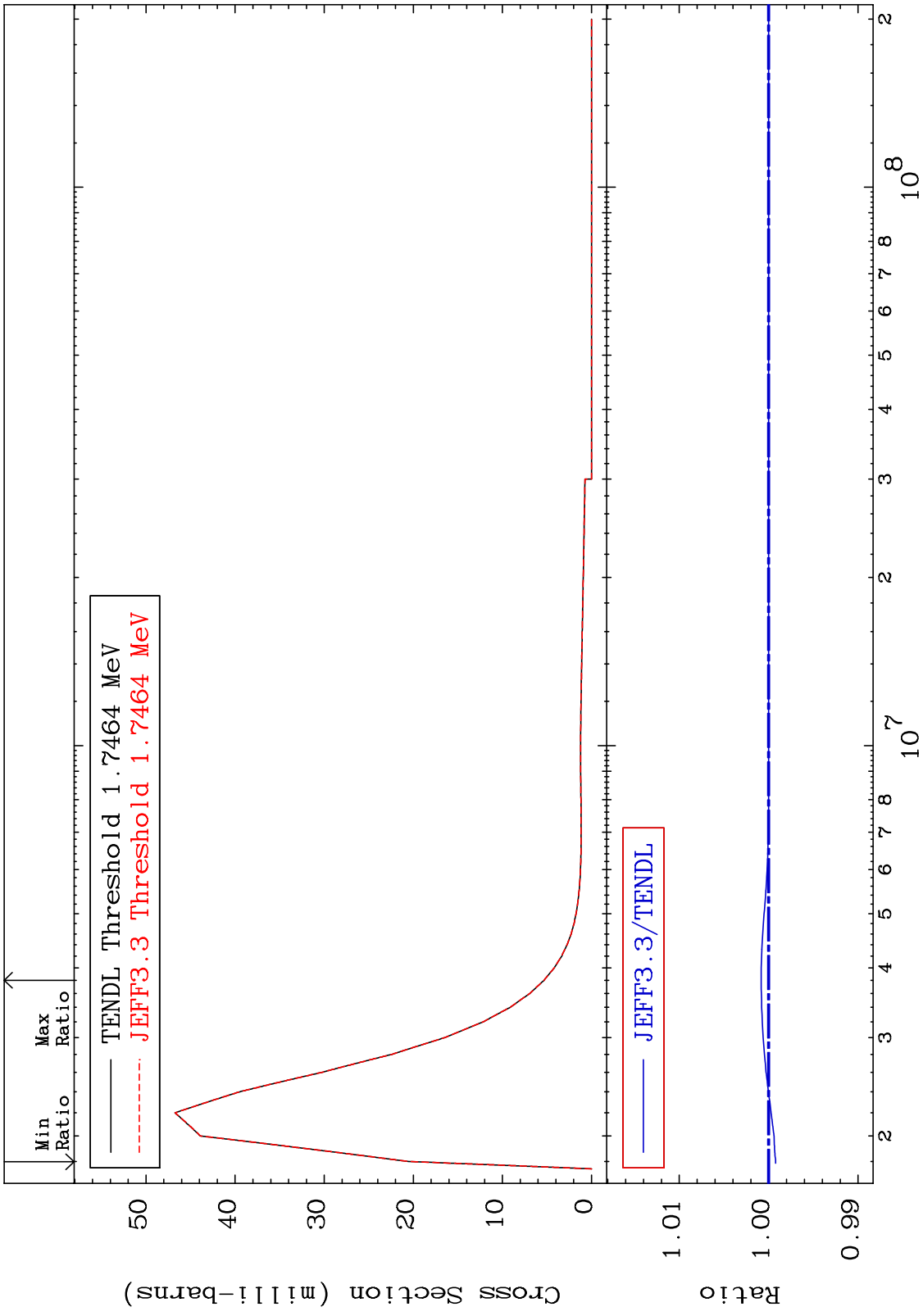
MAT 7837 MT= 69 (n,n') Level Cross Section 78-Pt-194 -0.057 To 0.061 %



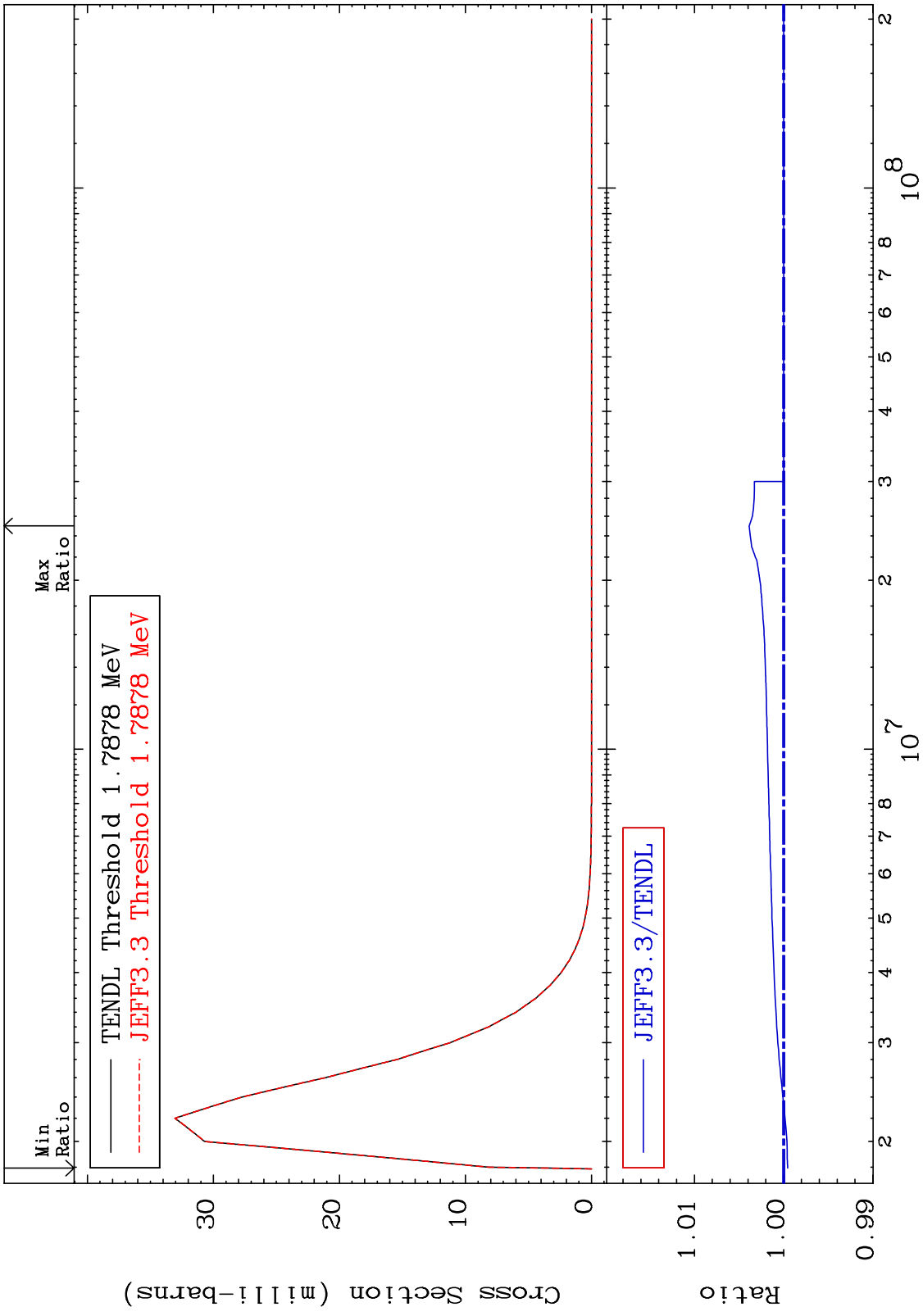
MAT 7837 MT= 70 (n,n') Level Cross Section 78-Pt-194 -0.056 To 0.061 %



MAT 7837 MT= 71 (n,n') Level Cross Section 78-Pt-194 -0.078 To 0.084 %

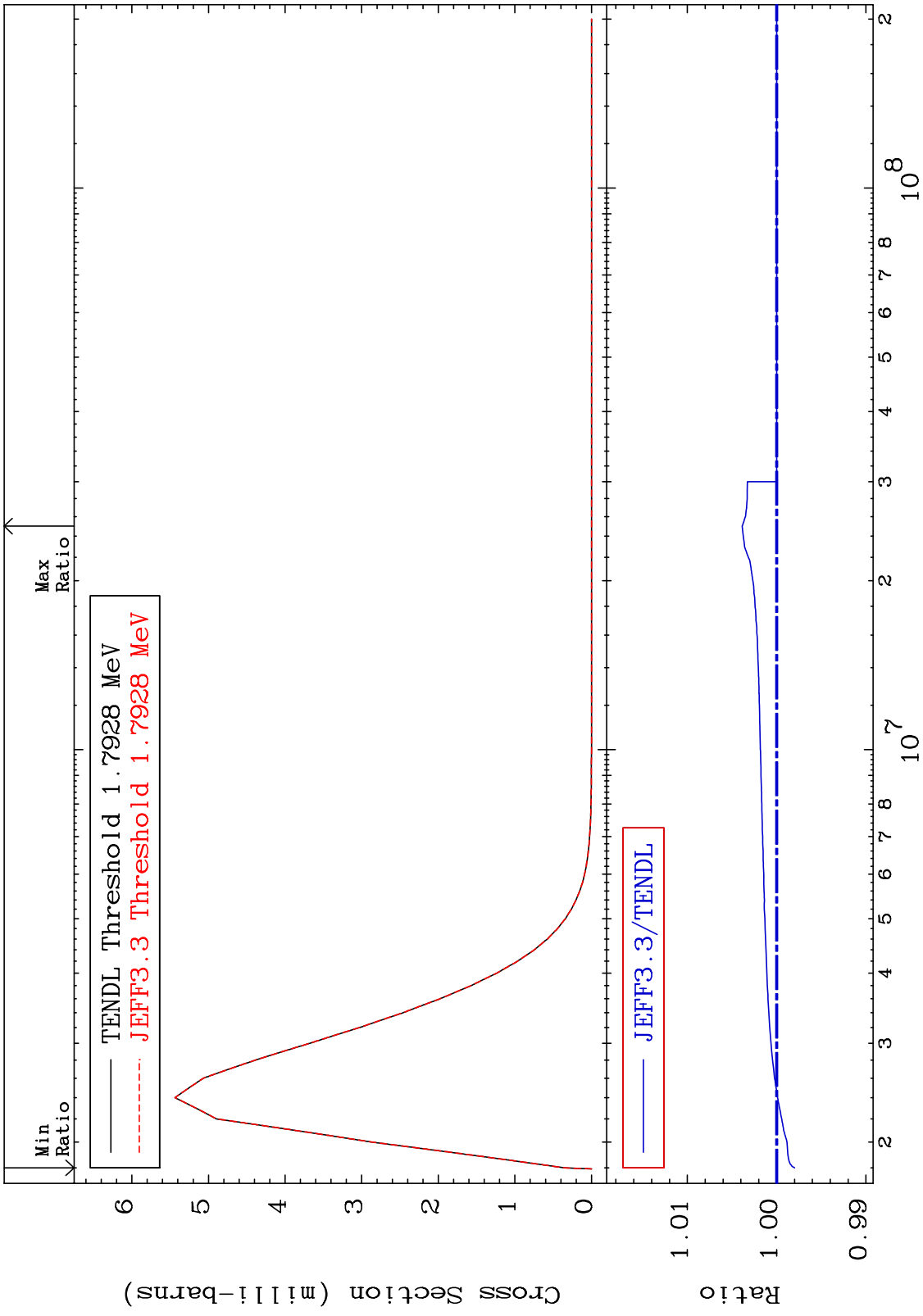


MAT 7837 MT= 72 (n,n') Level Cross Section 78-Pt-194 -0.045 To 0.386 %

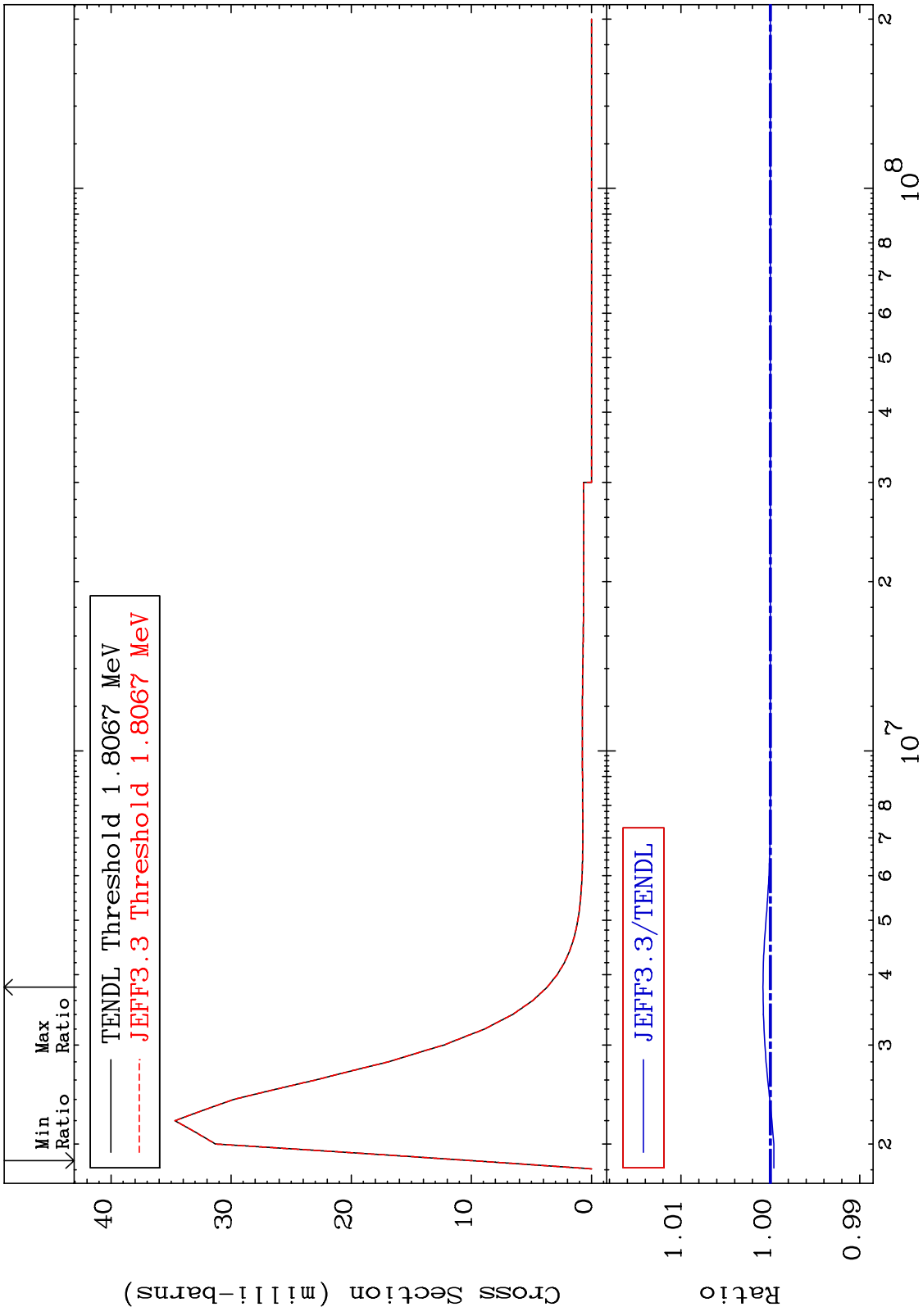


40 Incident Energy (eV) 78-Pt-194

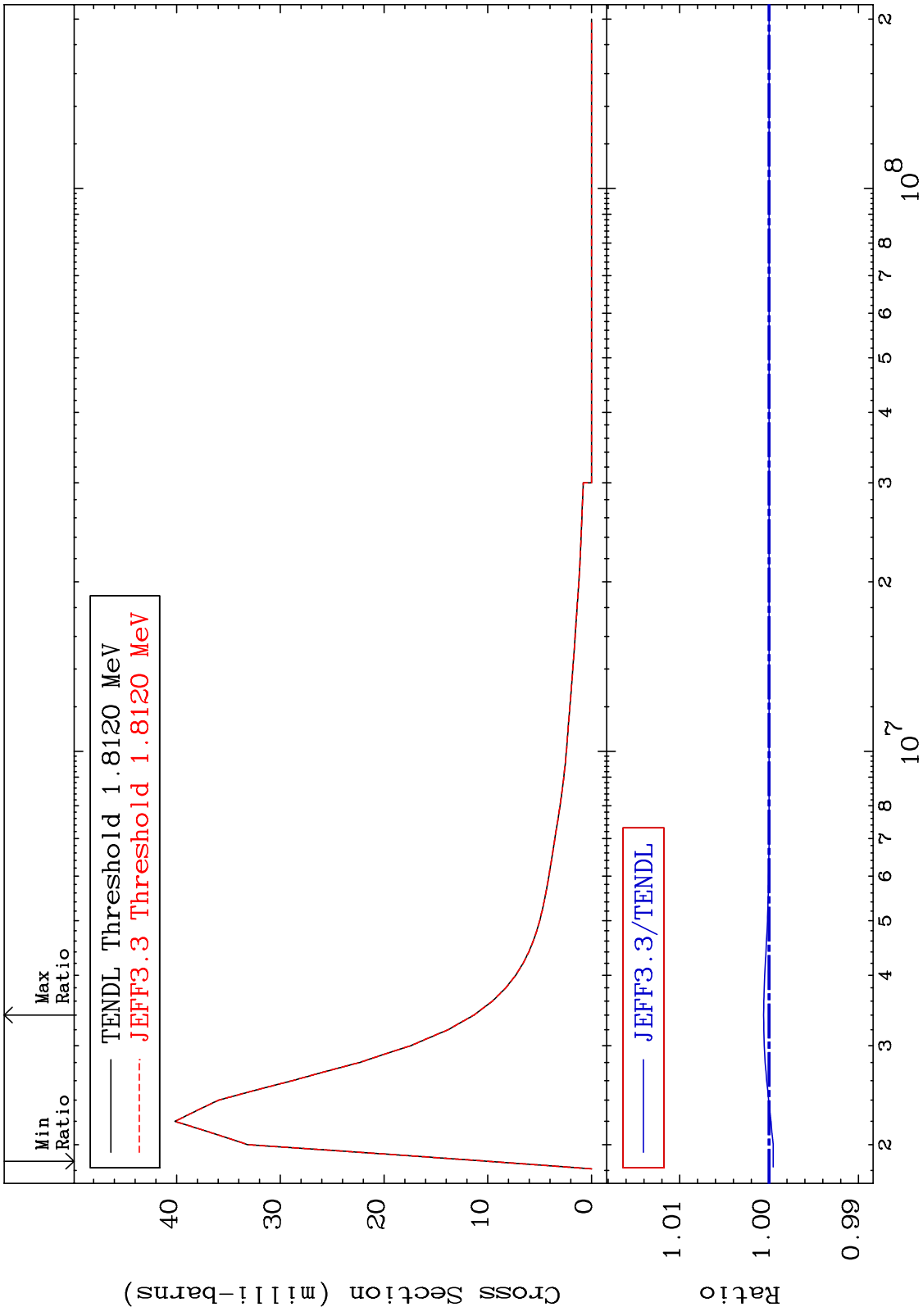
MAT 7837 MT= 73 (n,n') Level Cross Section 78-Pt-194
 -0.202 To 0.386 %



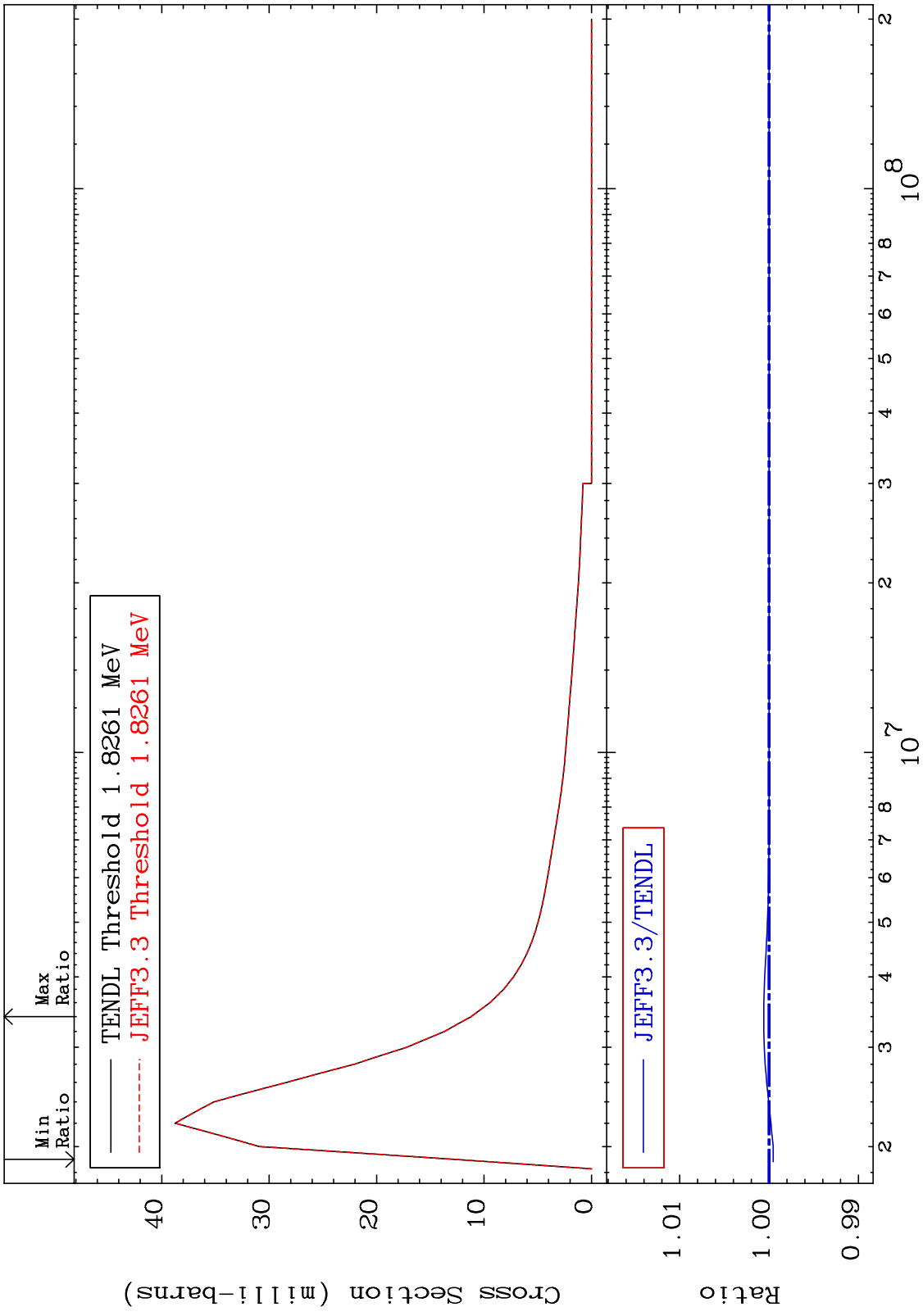
MAT 7837 MT= 74 (n,n') Level Cross Section 78-Pt-194 -0.039 To 0.082 %



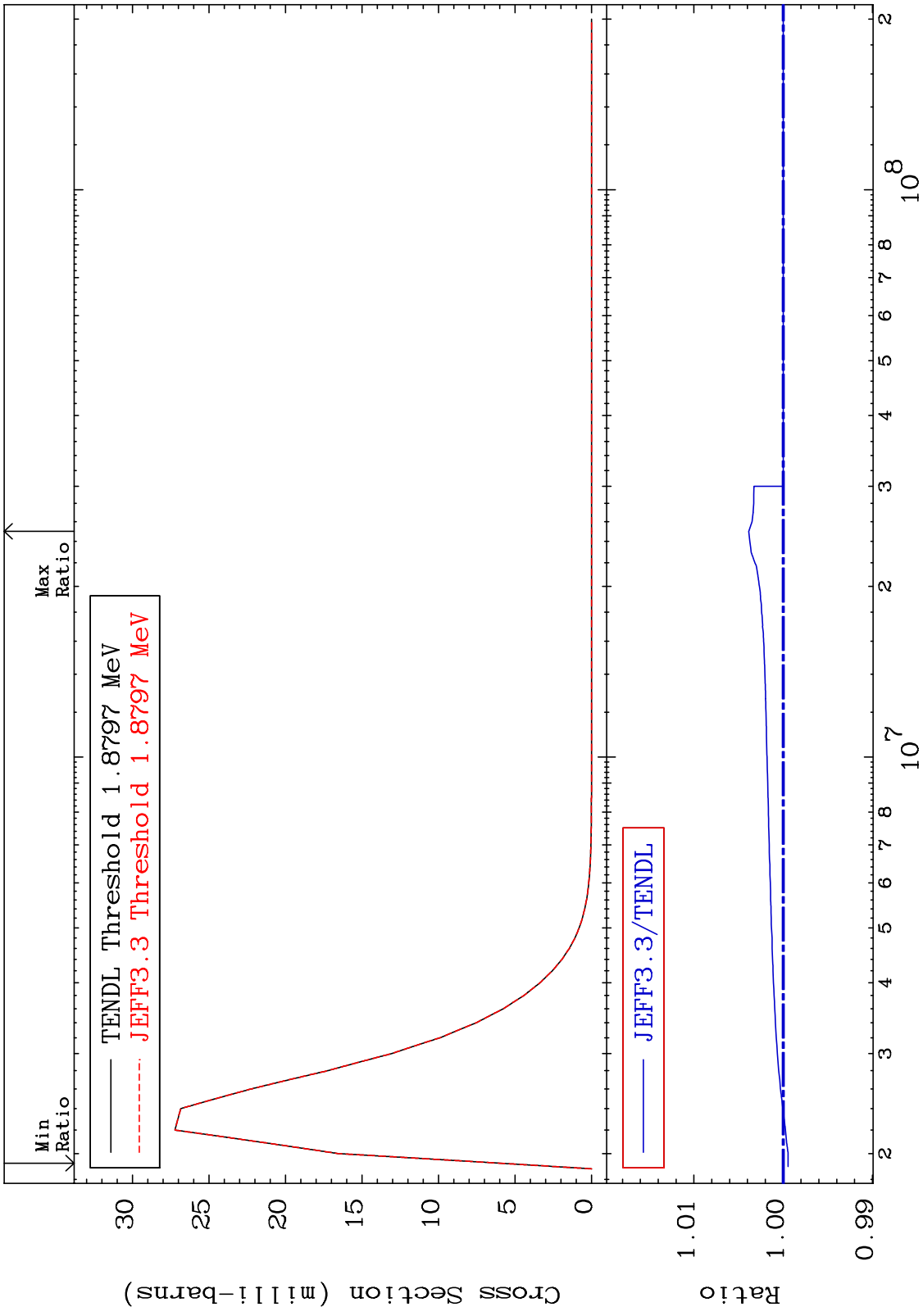
MAT 7837 MT= 75 (n,n') Level Cross Section 78-Pt-194 -0.046 To 0.061 %



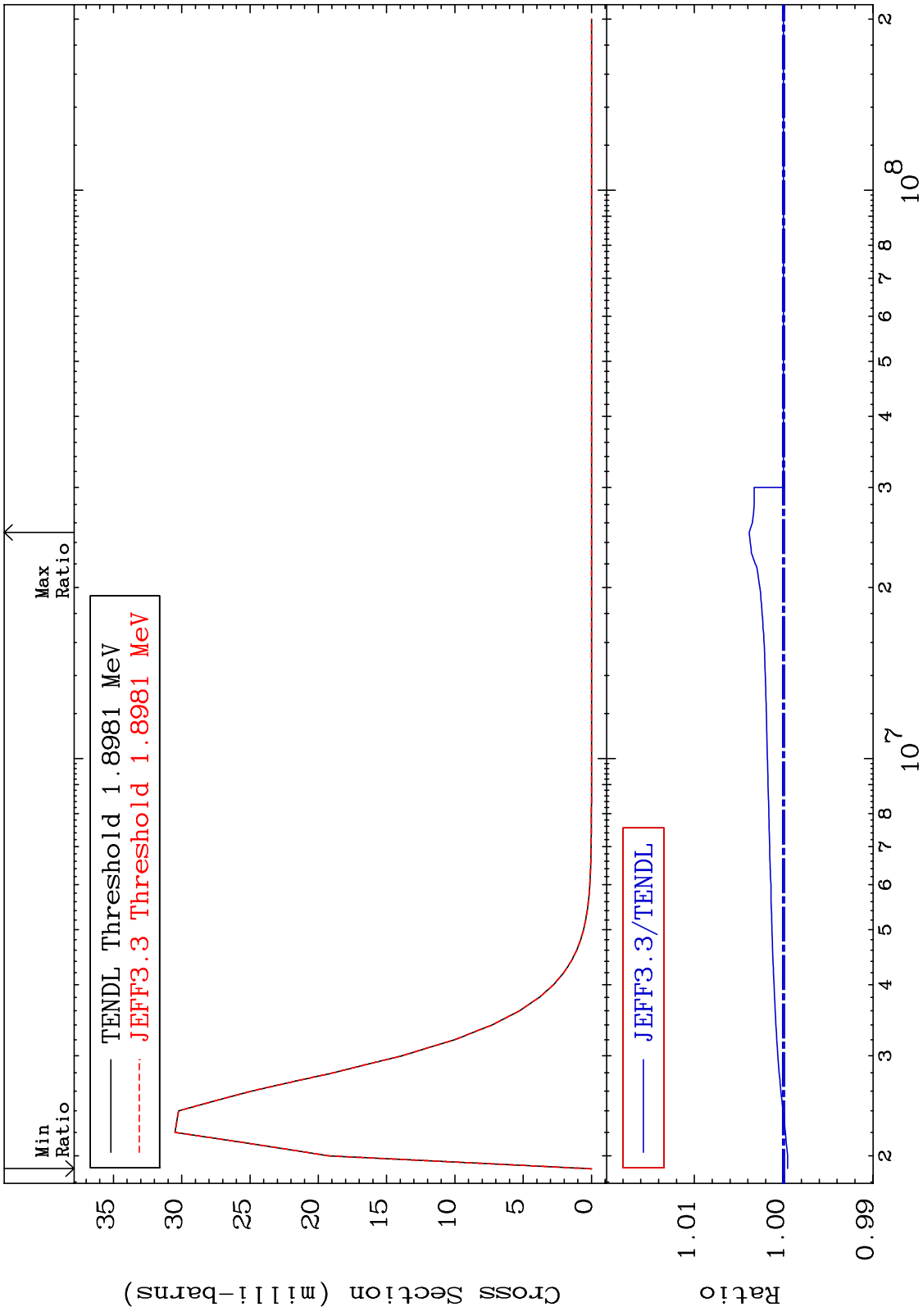
MAT 7837 MT= 76 (n,n') Level Cross Section 78-Pt-194 -0.046 To 0.061 %



MAT 7837 MT= 77 (n,n') Level Cross Section 78-Pt-194 -0.056 To 0.386 %



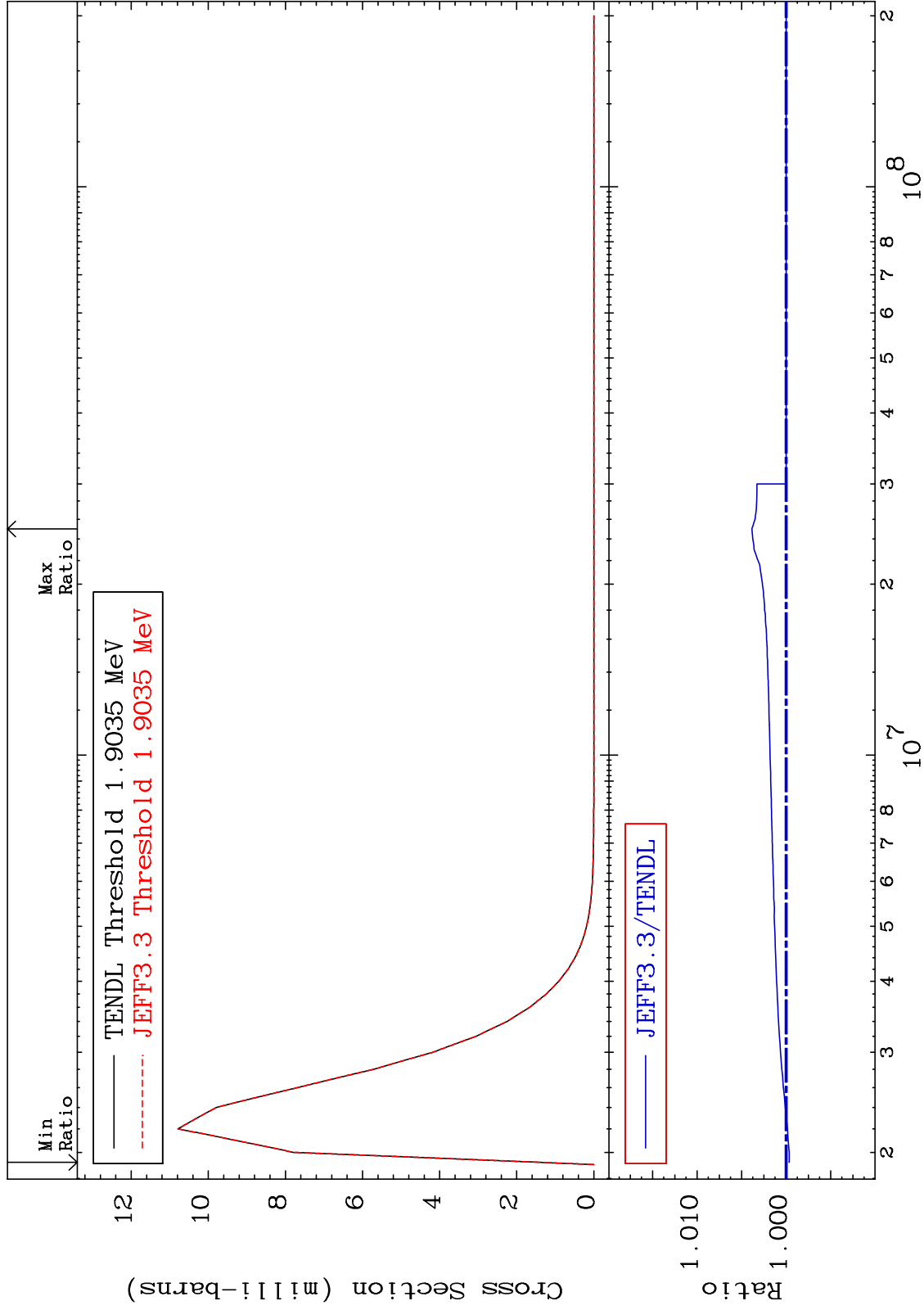
MAT 7837 MT= 78 (n,n') Level Cross Section 78-Pt-194 -0.046 To 0.386 %



MAT 7837

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

78-Pt-194
-0.034 To 0.386 %

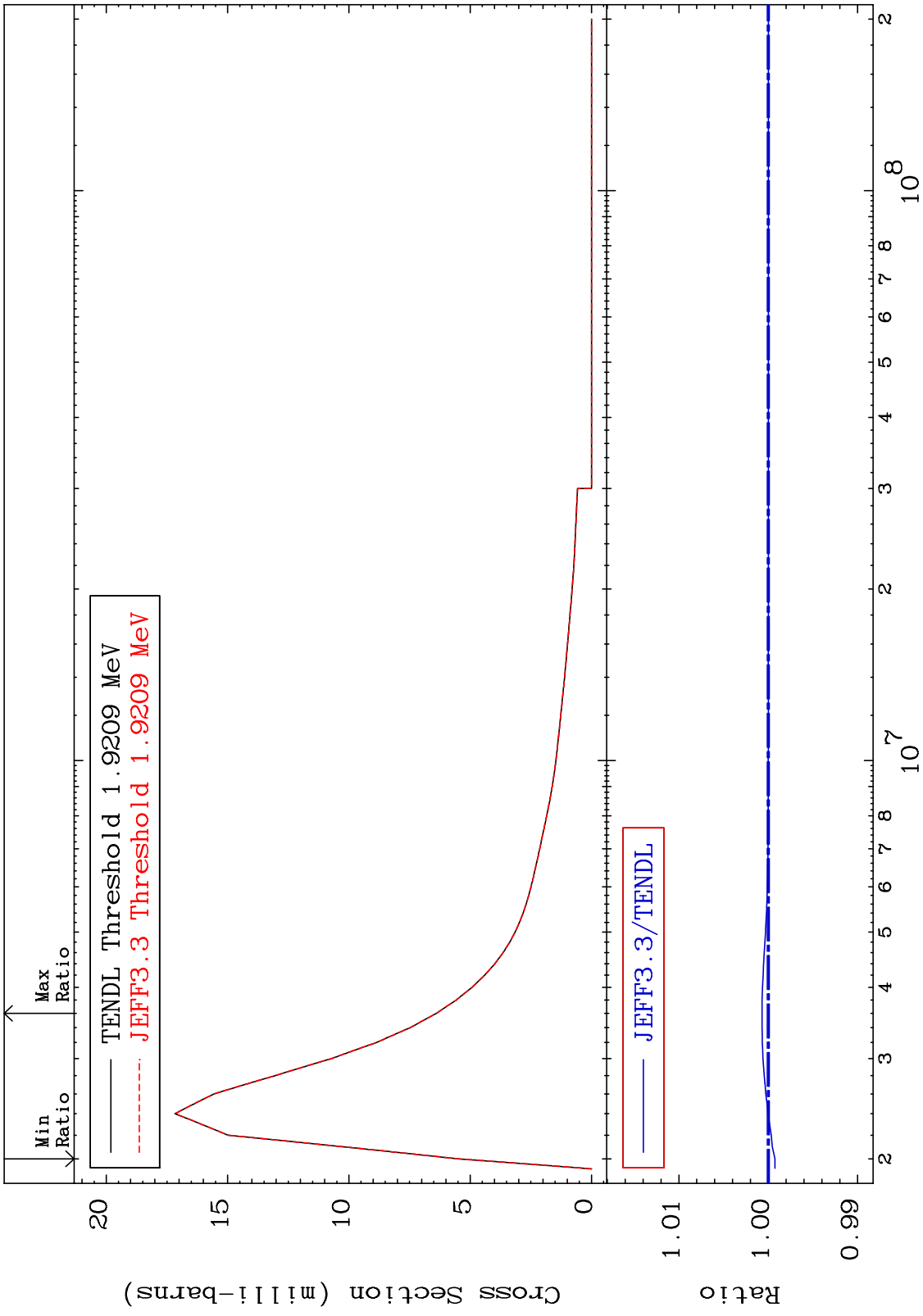


47

Incident Energy (eV)

78-Pt-194

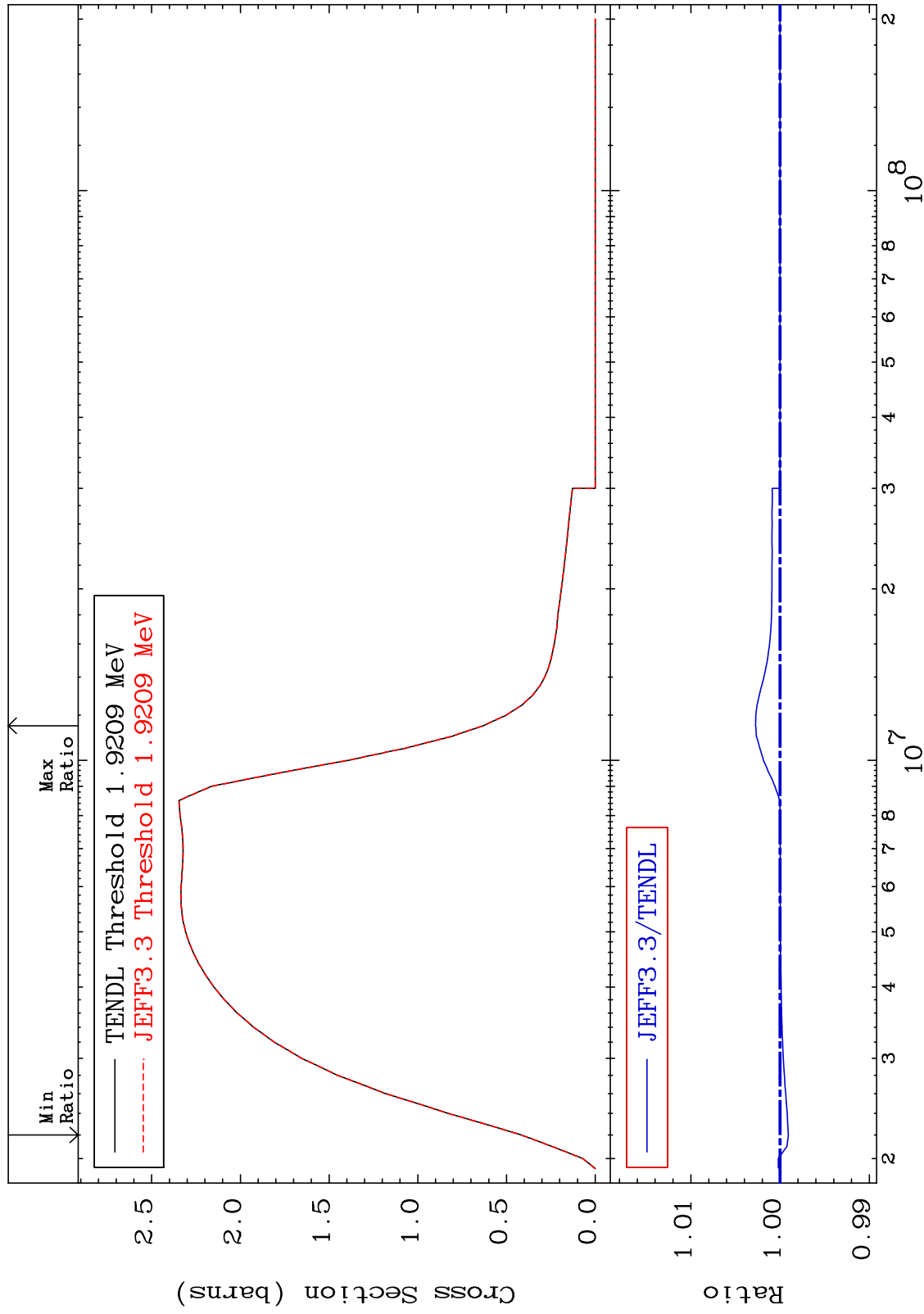
MAT 7837 MT= 80 (n,n') Level Cross Section 78-Pt-194 -0.074 To 0.071 %



MAT 7837

(n, n') Continuum
Cross Section

78-Pt-194
-0.093 To 0.274 %



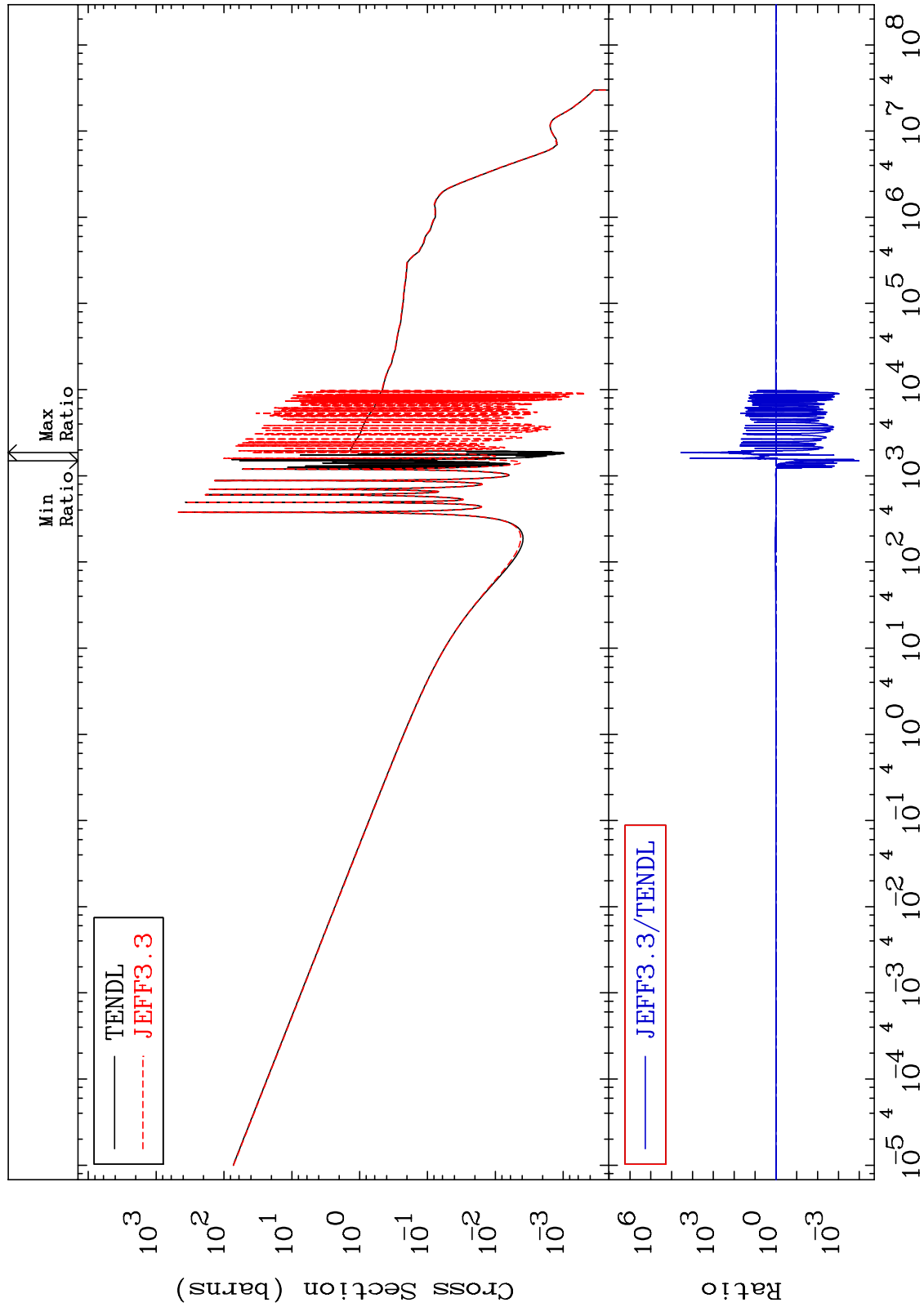
MAT 7837

(n, γ)

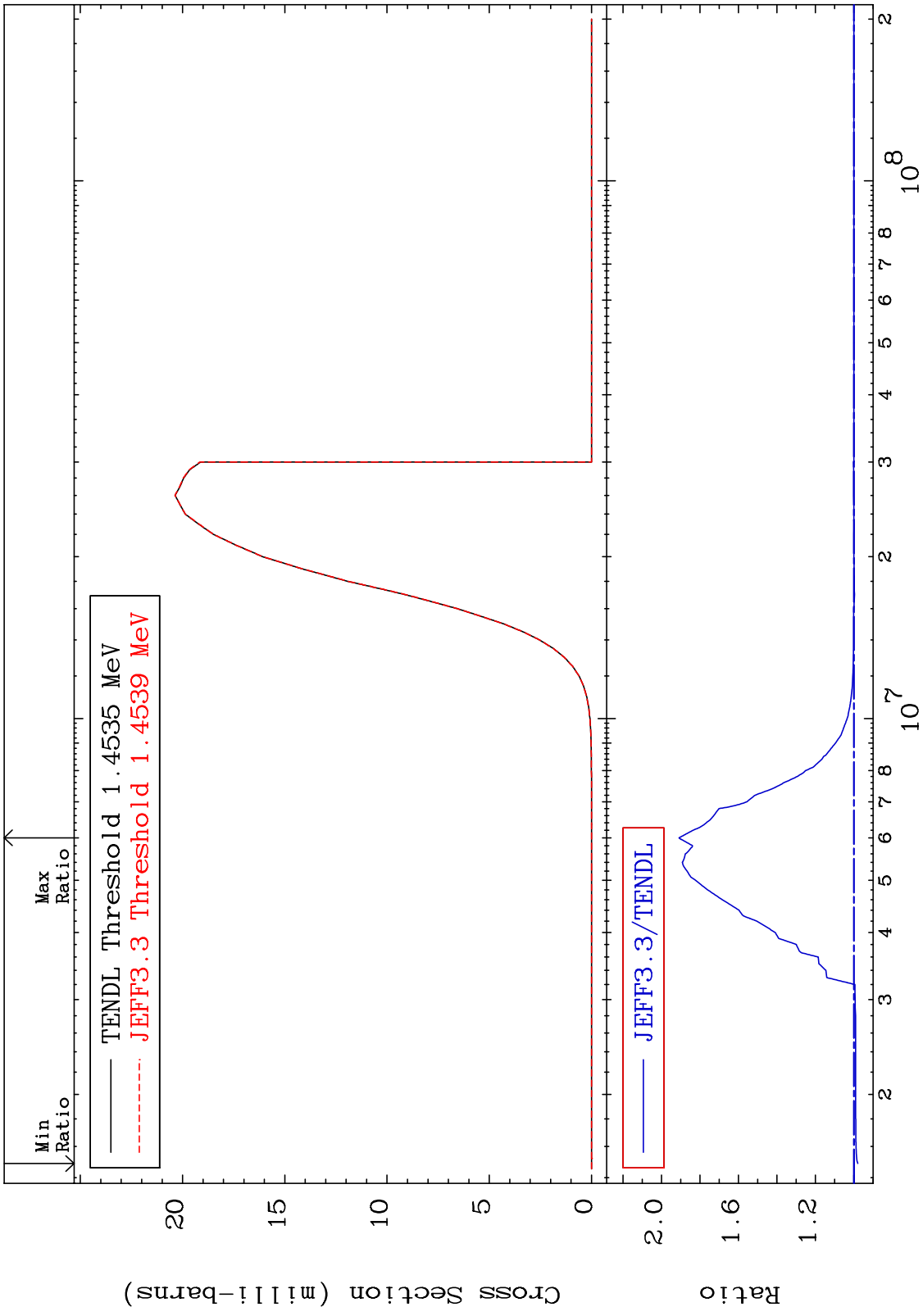
78-Pt-194

Cross Section

-99.99 To 9999. %



MAT 7837 (n,p) Cross Section 78-Pt-194 -2.111 To 90.88 %



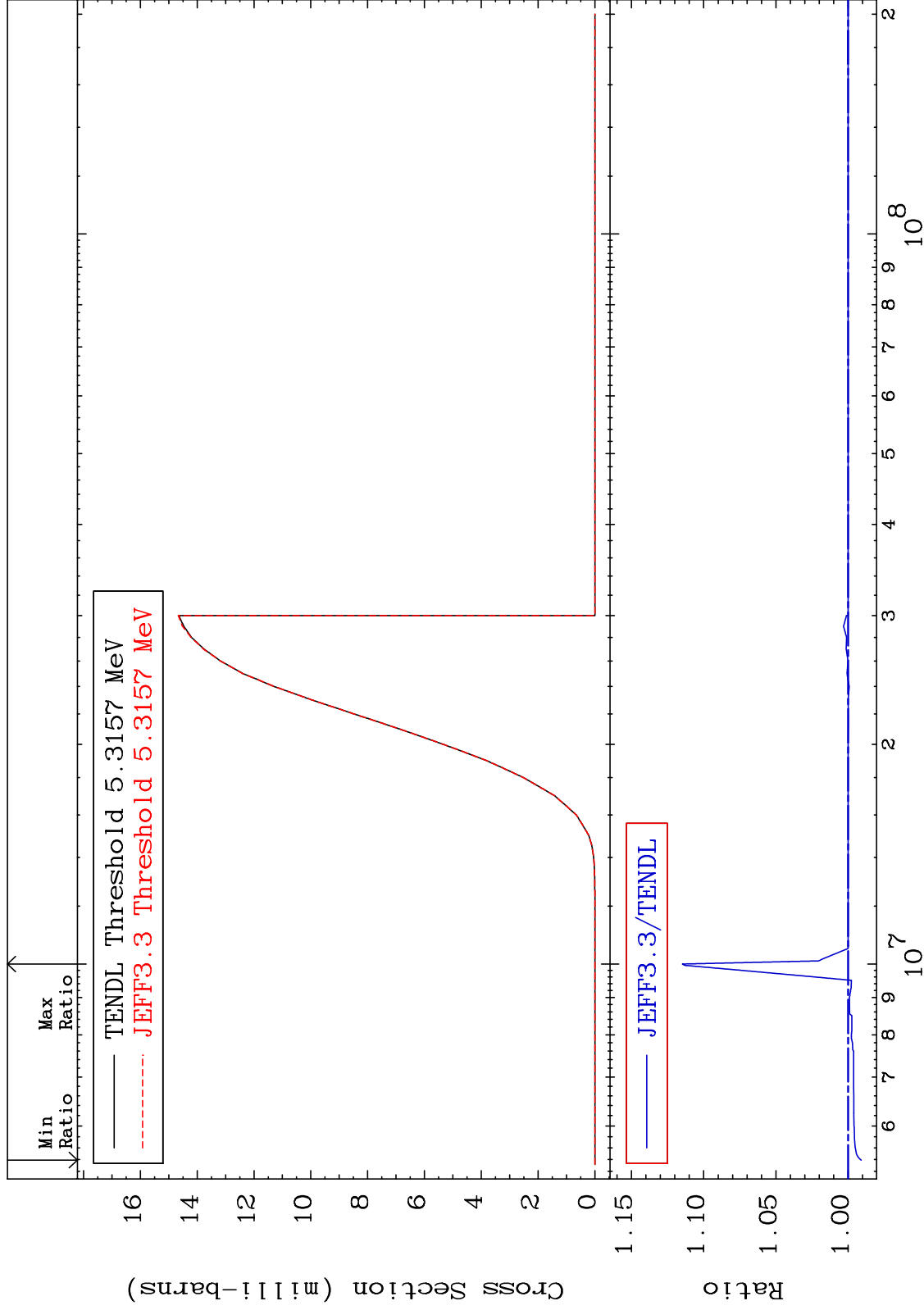
MAT 7837

(n,d)

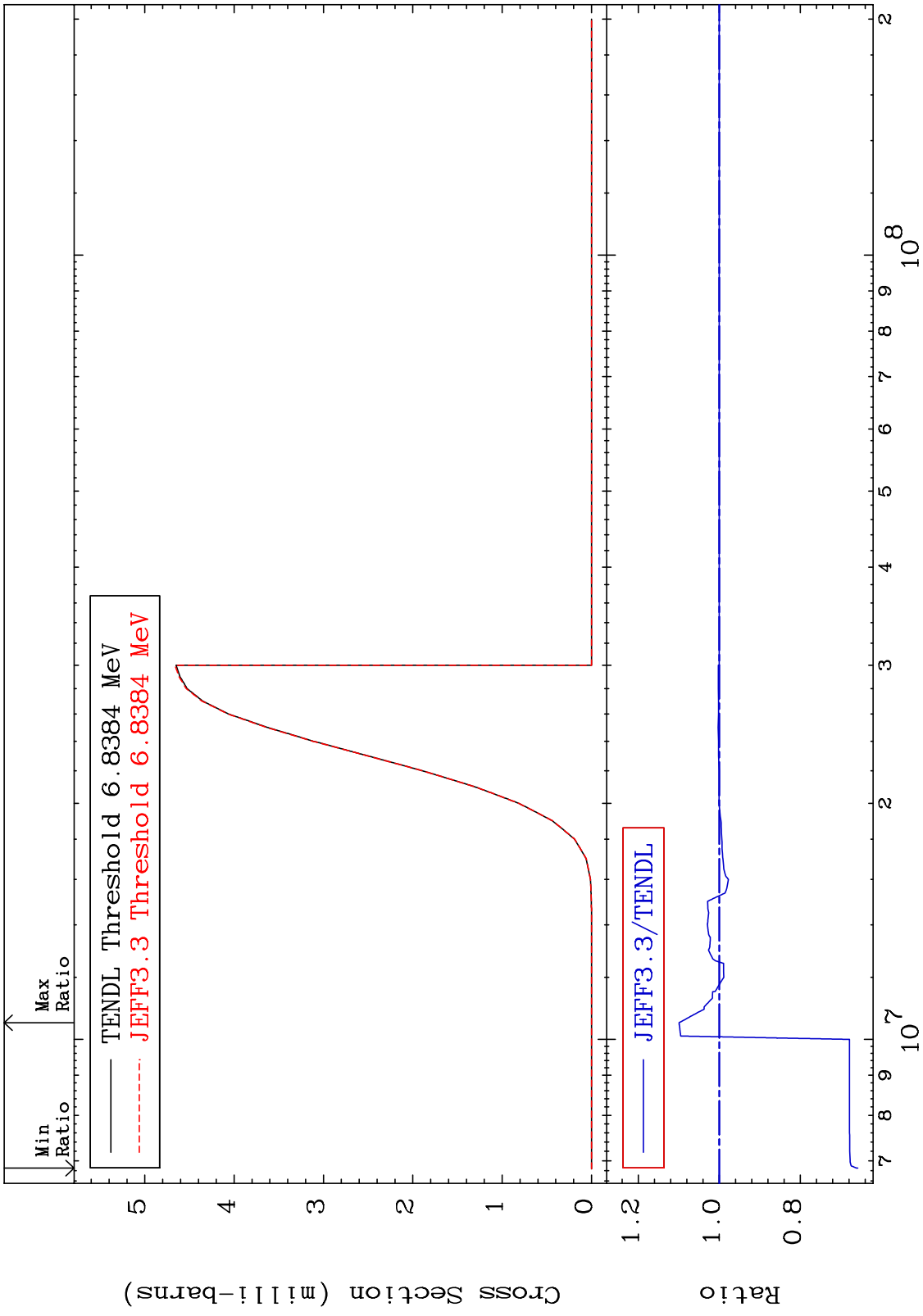
78-Pt-194

Cross Section

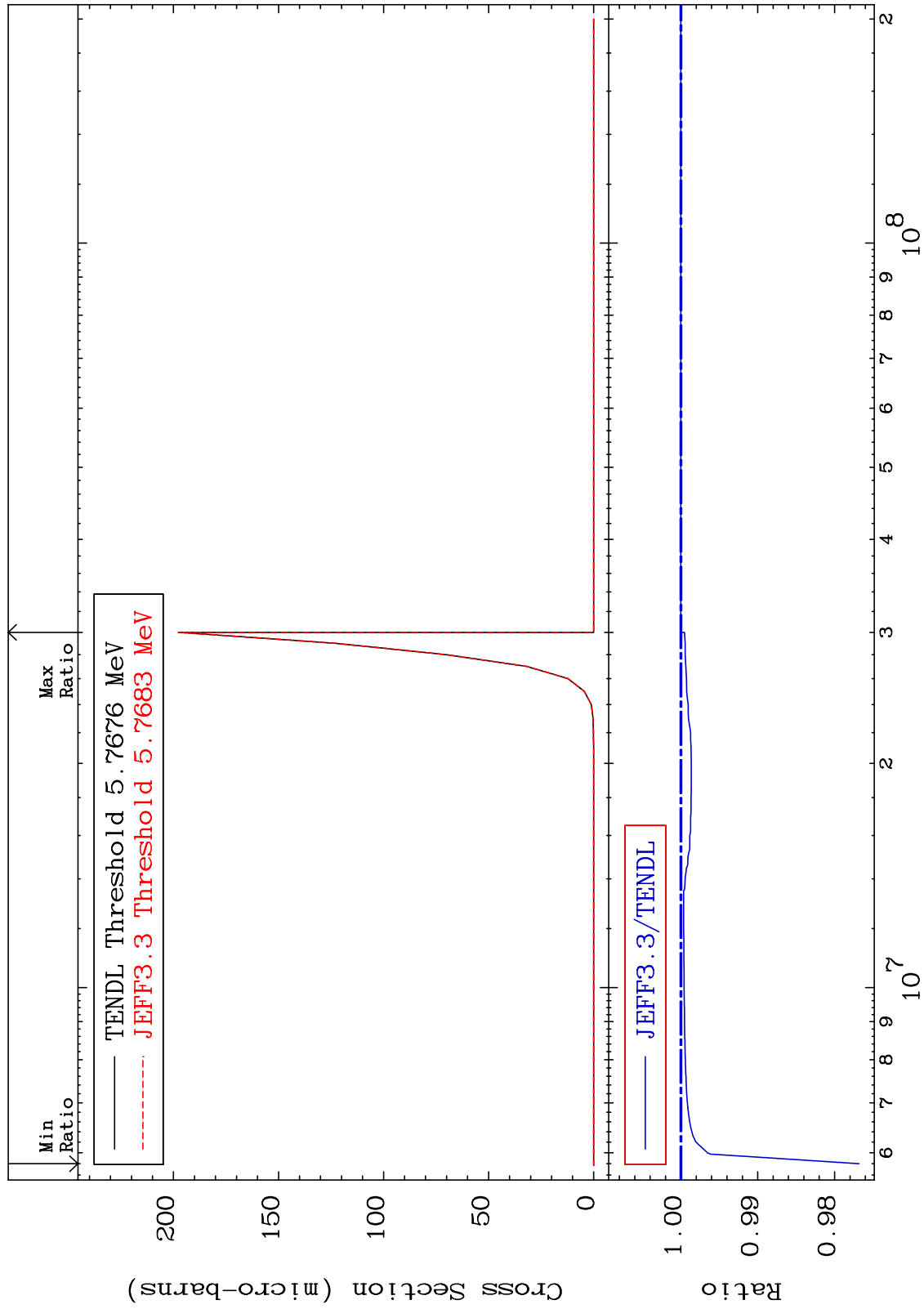
-0.912 To 11.47 %



MAT 7837 (n,t) 78-Pt-194
 Cross Section -34.20 To 9.930 %



MAT 7837 (n, He-3) 78-Pt-194
Cross Section -2.318 To 0.000 %



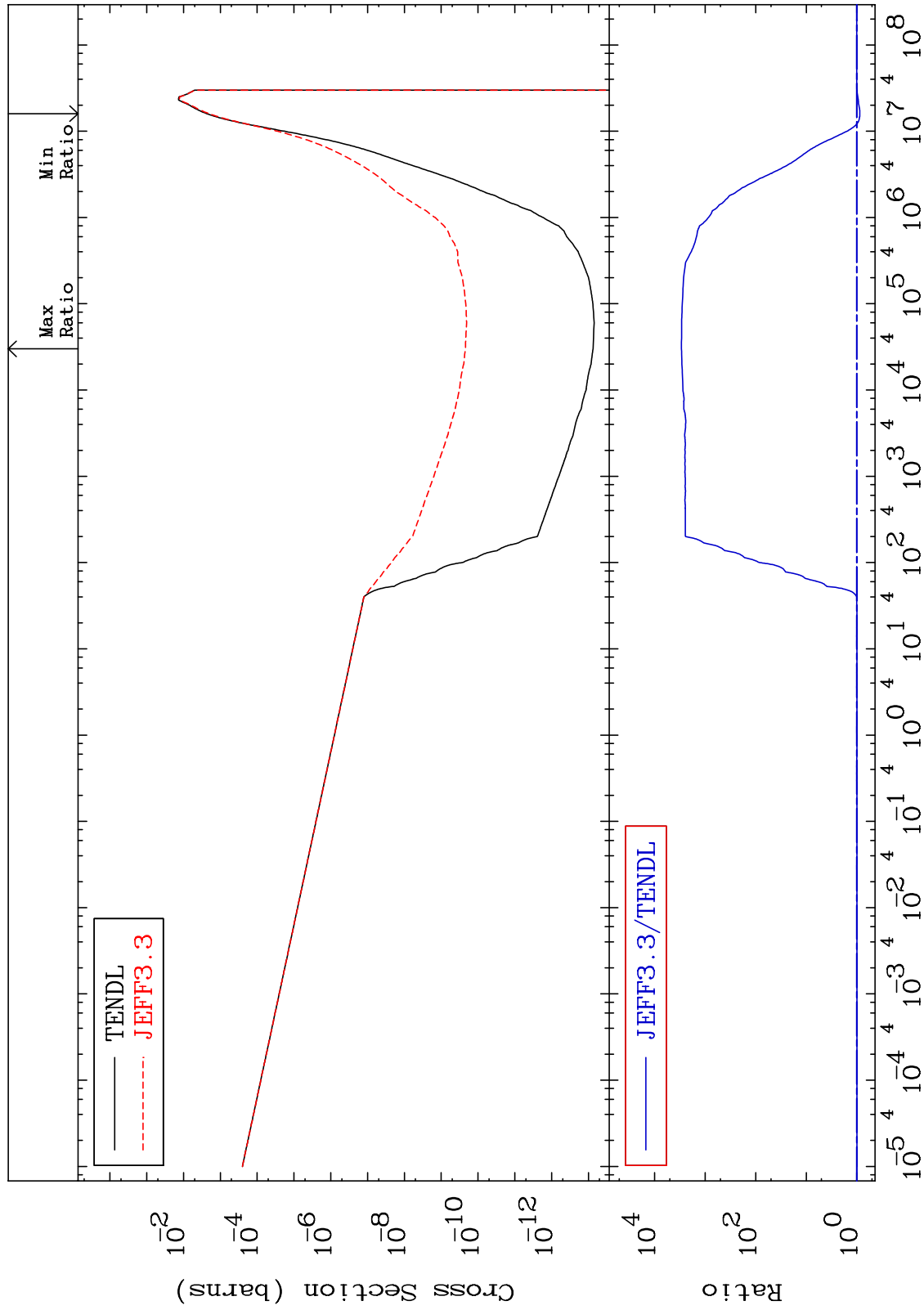
MAT 7837

(n, α)

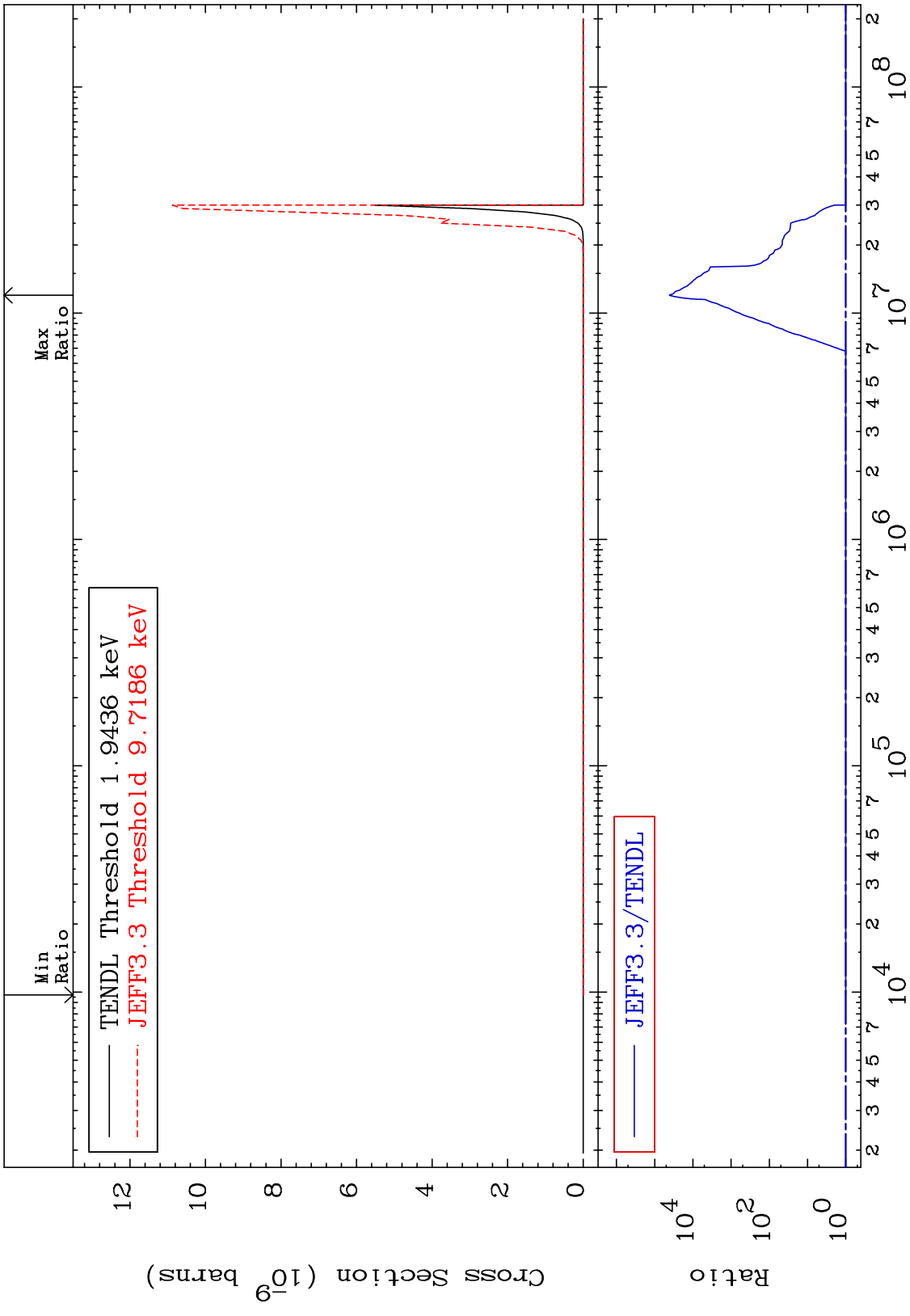
78-Pt-194

Cross Section

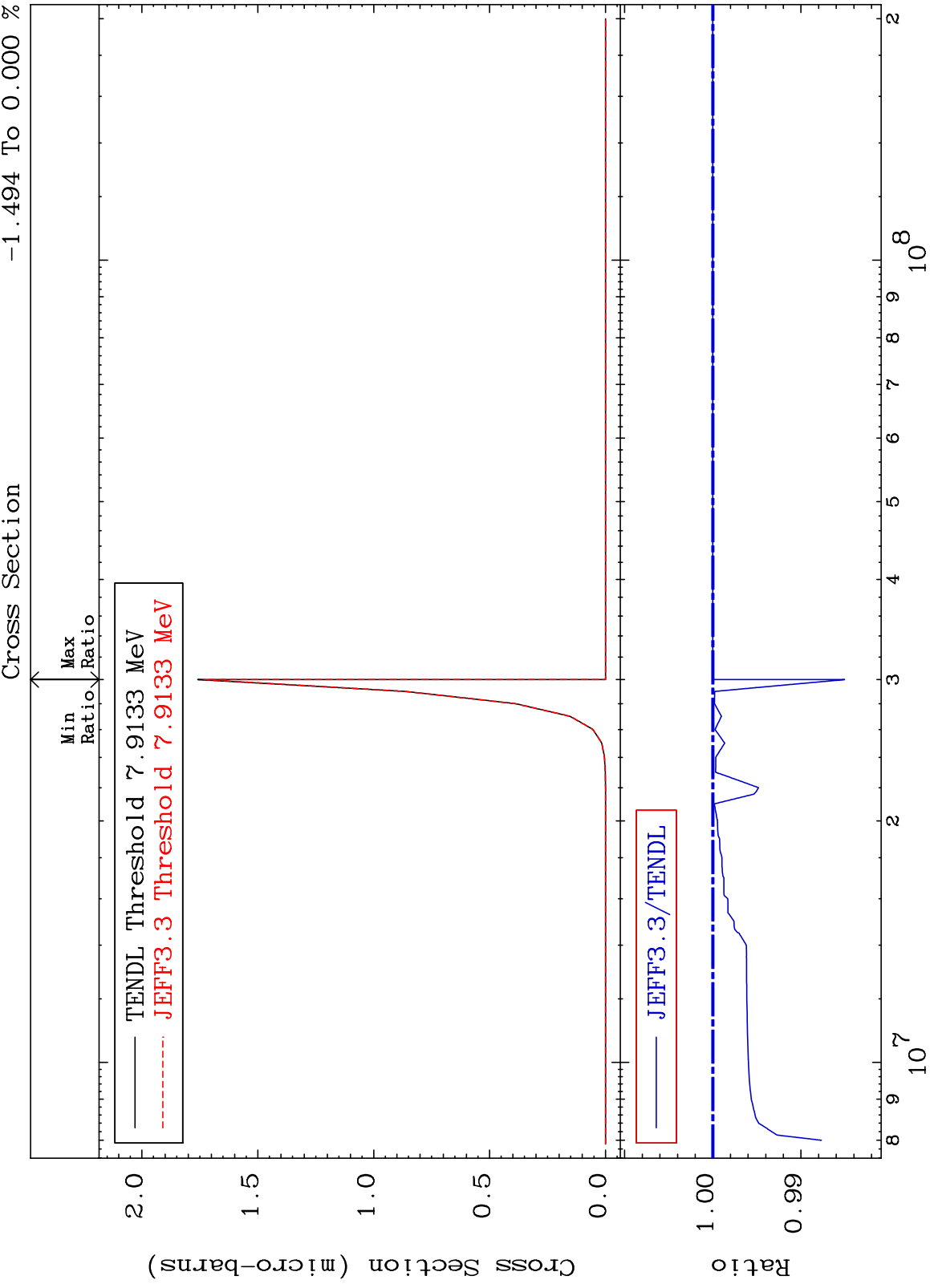
-12.78 To 9999. %



MAT 7837 (n,2α) Cross Section 78-Pt-194 To 9999. %



MAT 7837 (n,2p) 78-Pt-194 -1.494 To 0.000 %

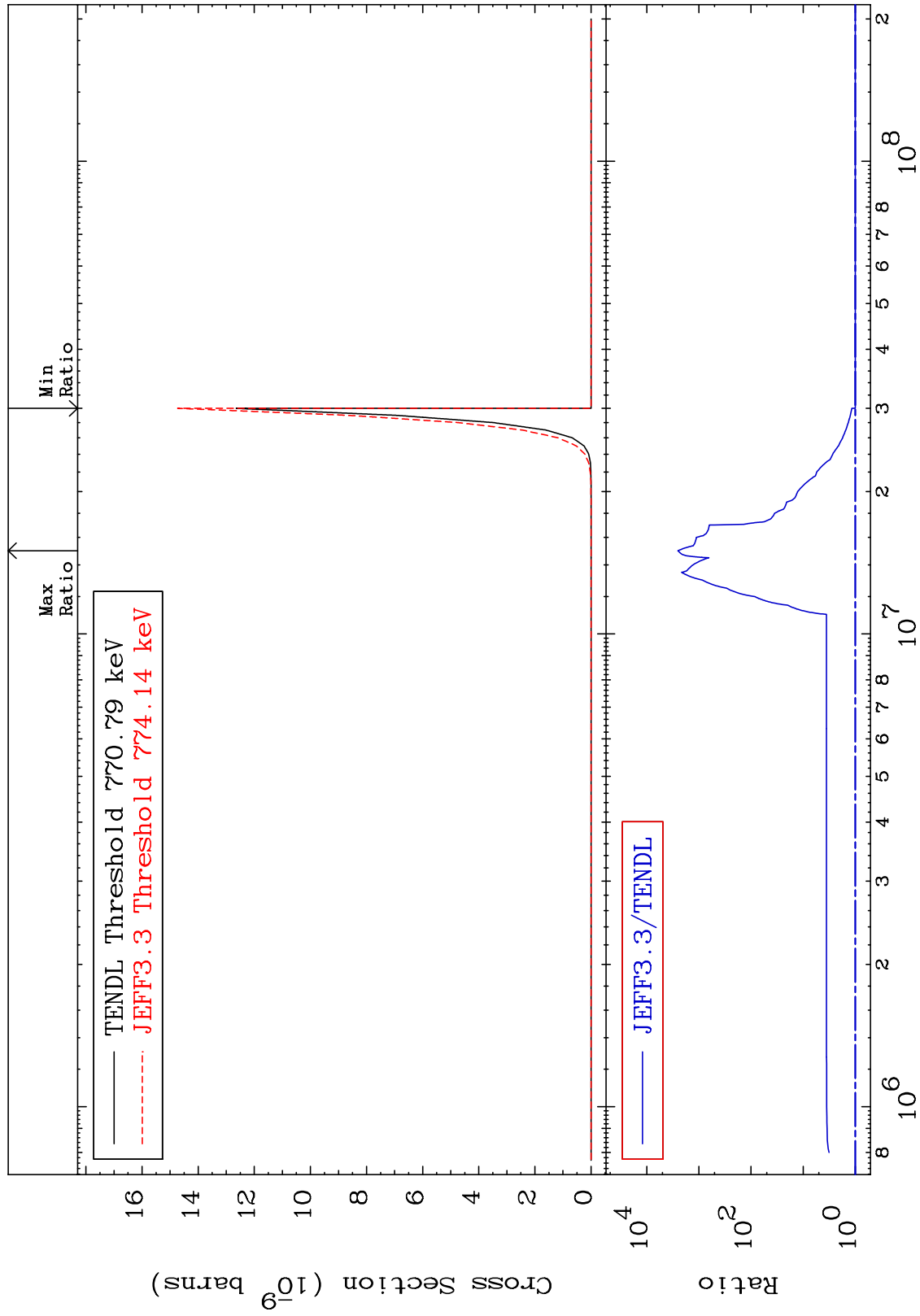


MAT 7837

(n,p) α

78-Pt-194

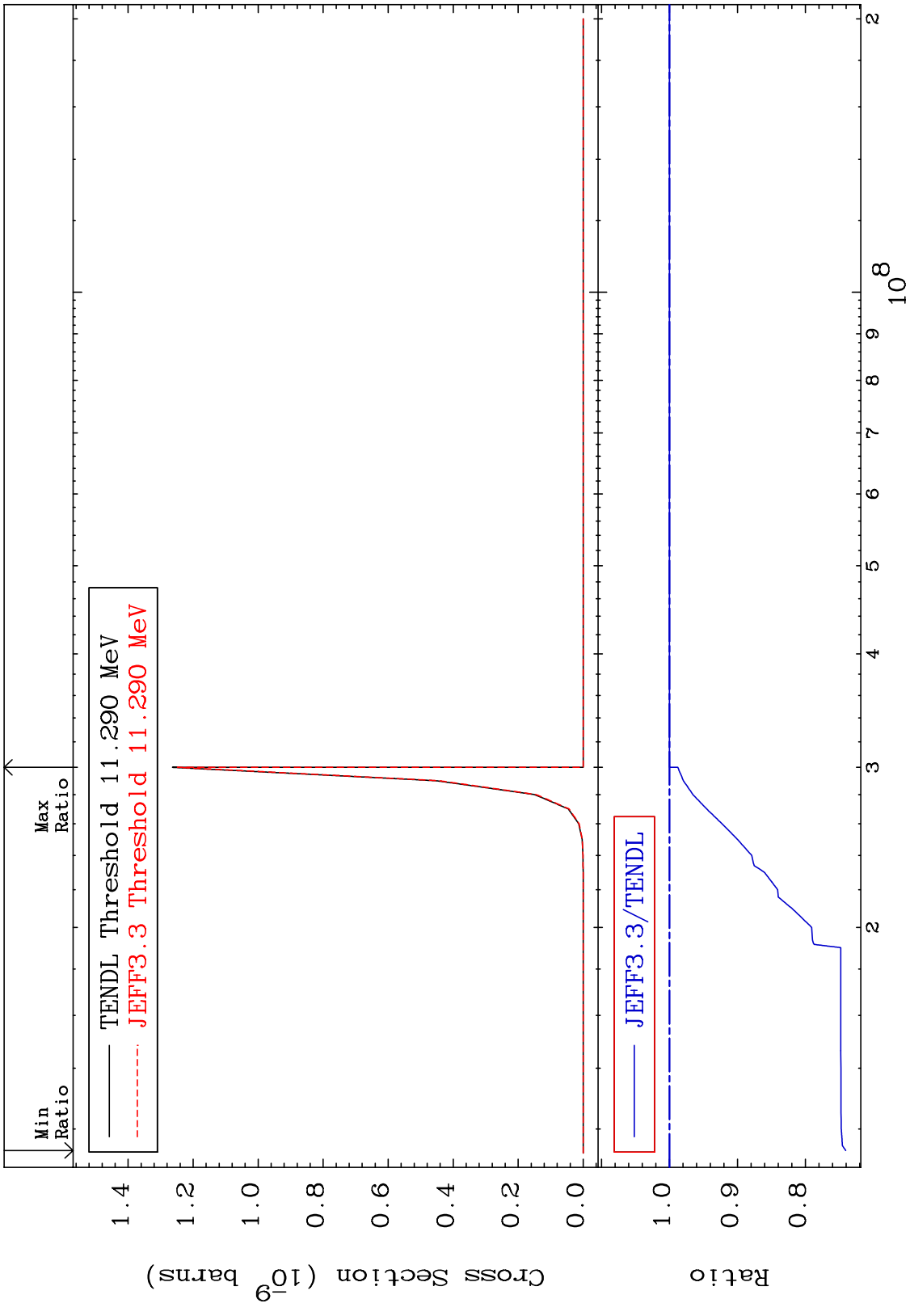
0.000 To 9999. %



58

Incident Energy (eV)

78-Pt-194



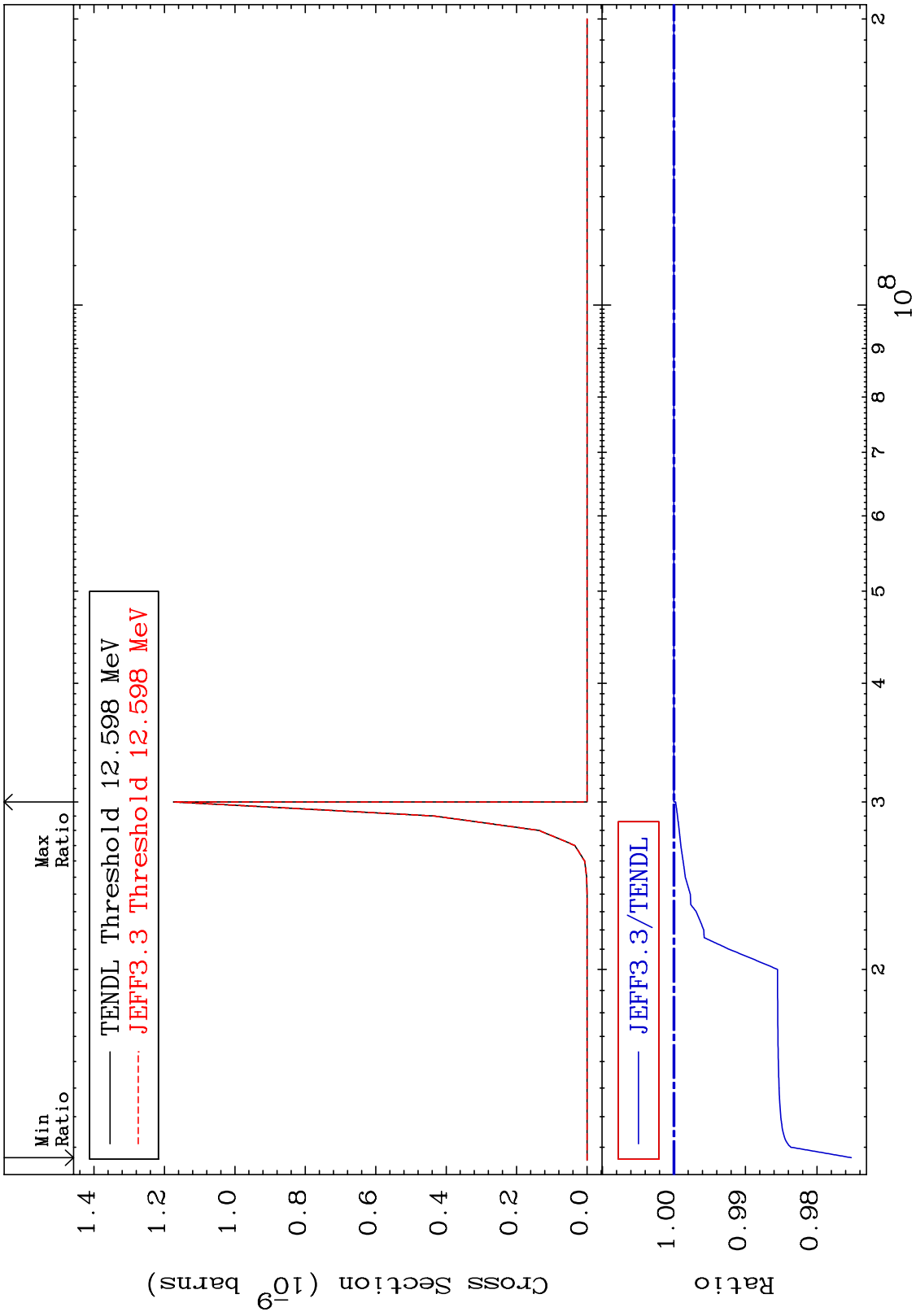
MAT 7837

(n,p) t

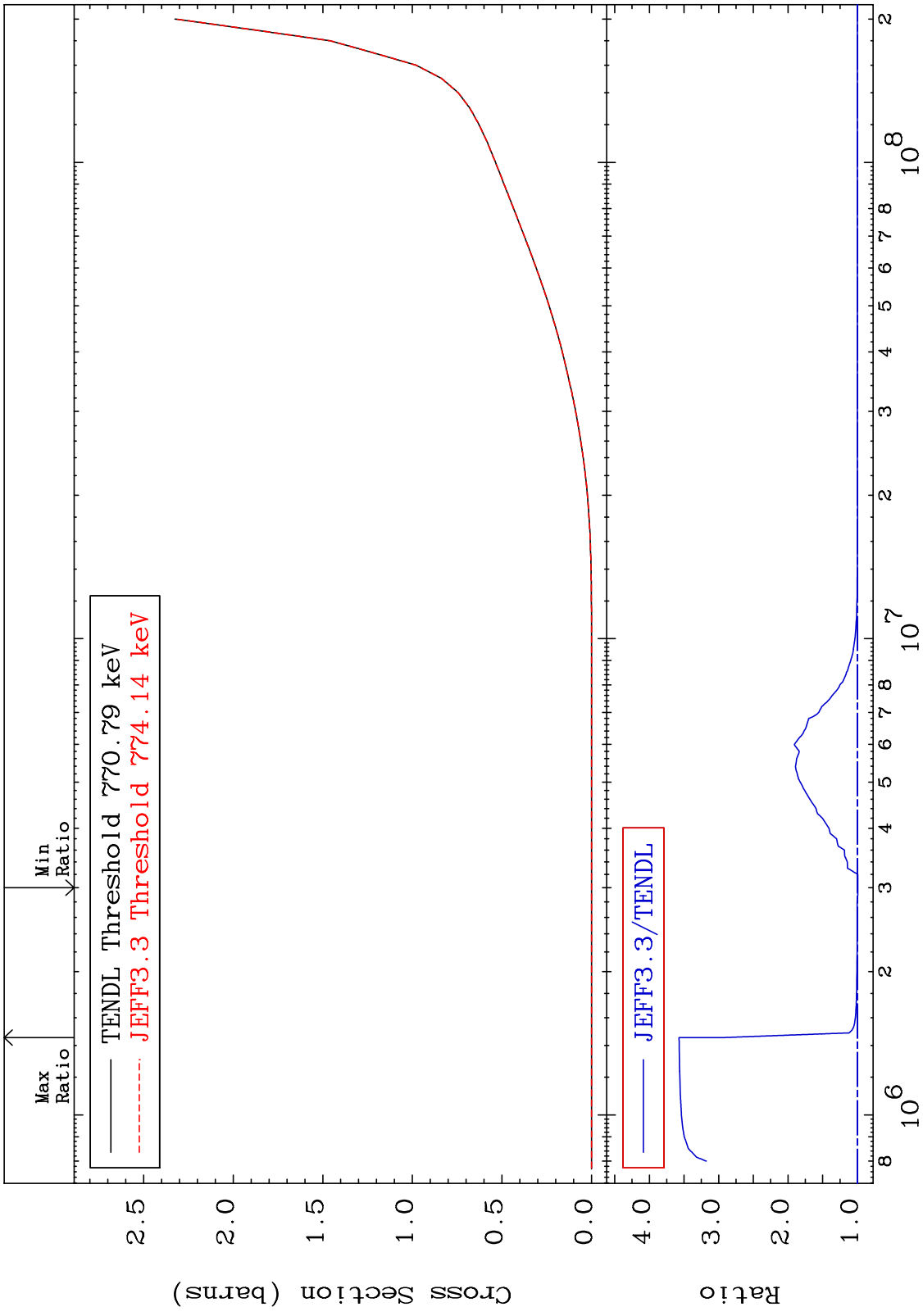
78-Pt-194

Cross Section

-2.480 To 0.000 %



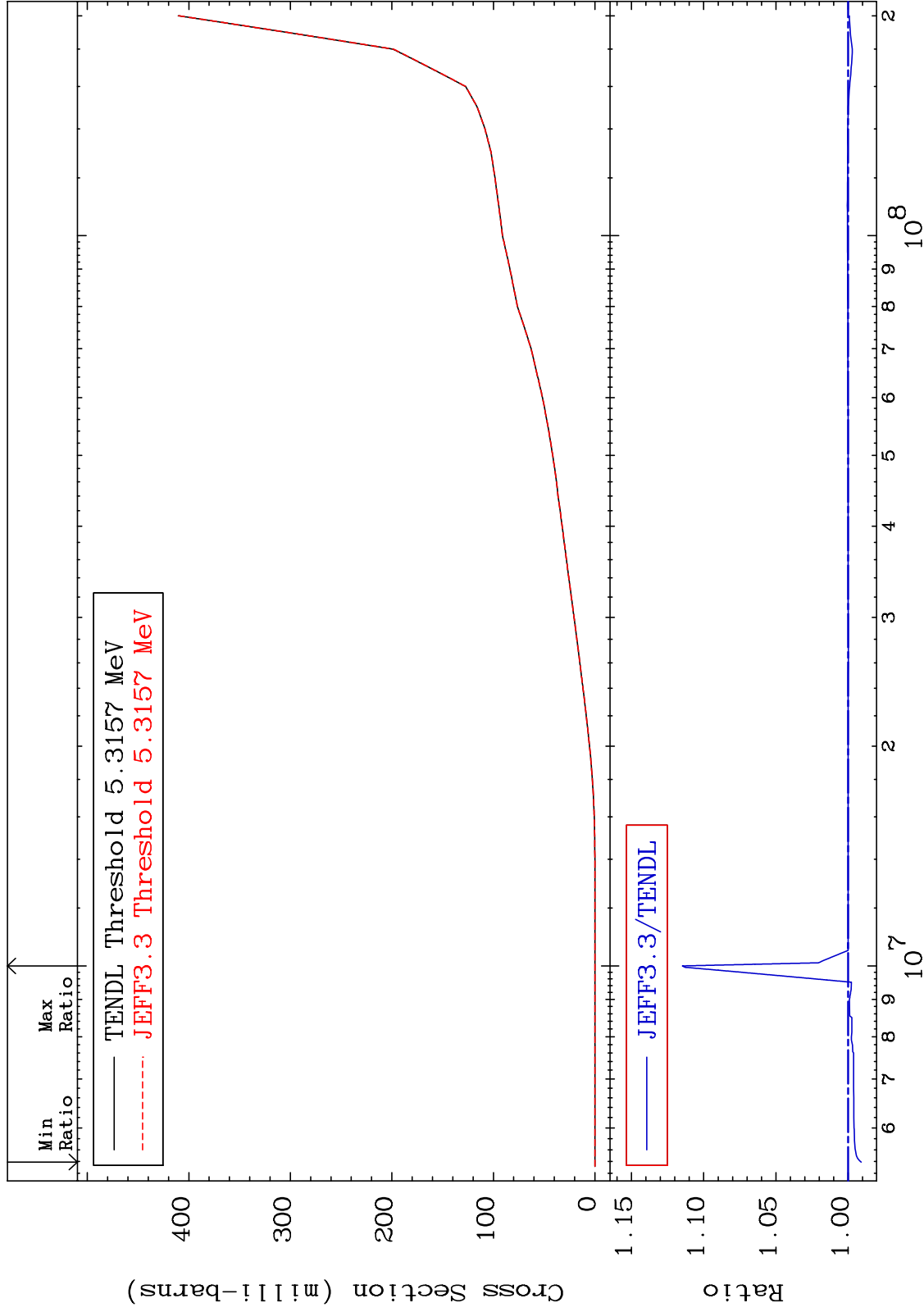
MAT 7837 Hydrogen Production Cross Section 78-Pt-194
 -0.738 To 257.2 %



MAT 7837

Deuterium Production
Cross Section

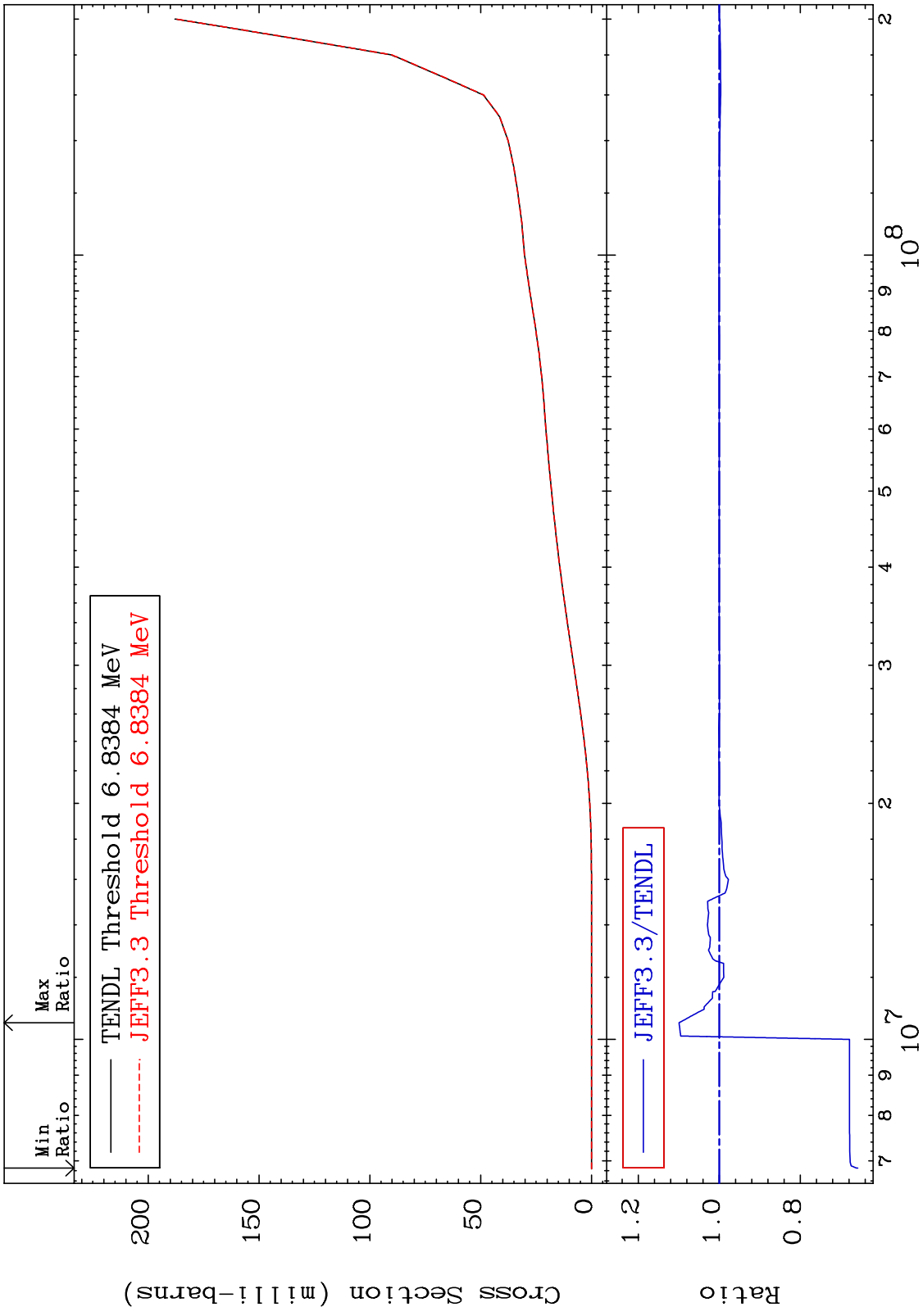
78-Pt-194
-0.912 To 11.47 %



62

78-Pt-194

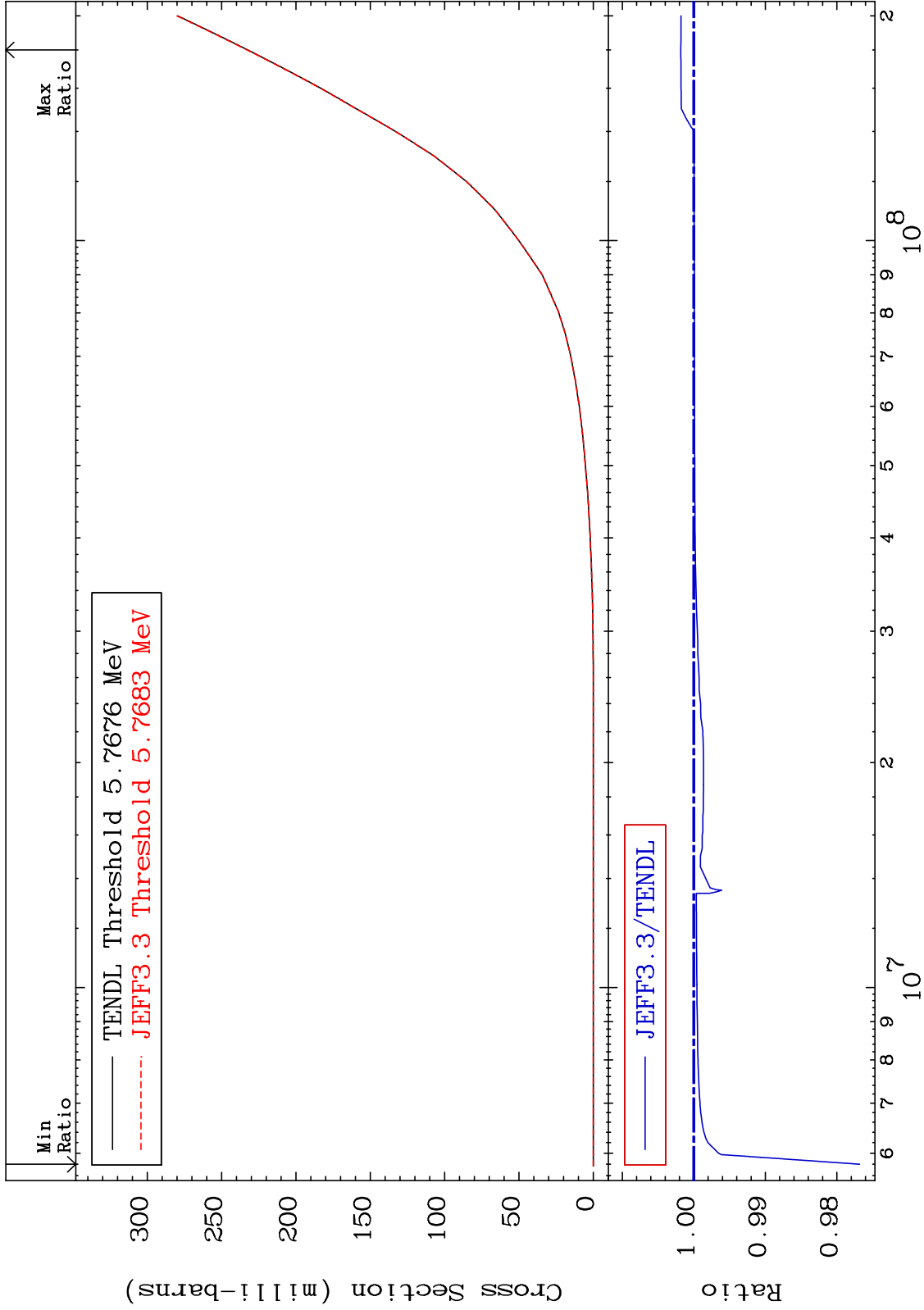
MAT 7837 Tritium Production Cross Section 78-Pt-194
 -34.20 To 9.930 %



MAT 7837

He-3 Production
Cross Section

78-Pt-194
-2.318 To 0.182 %



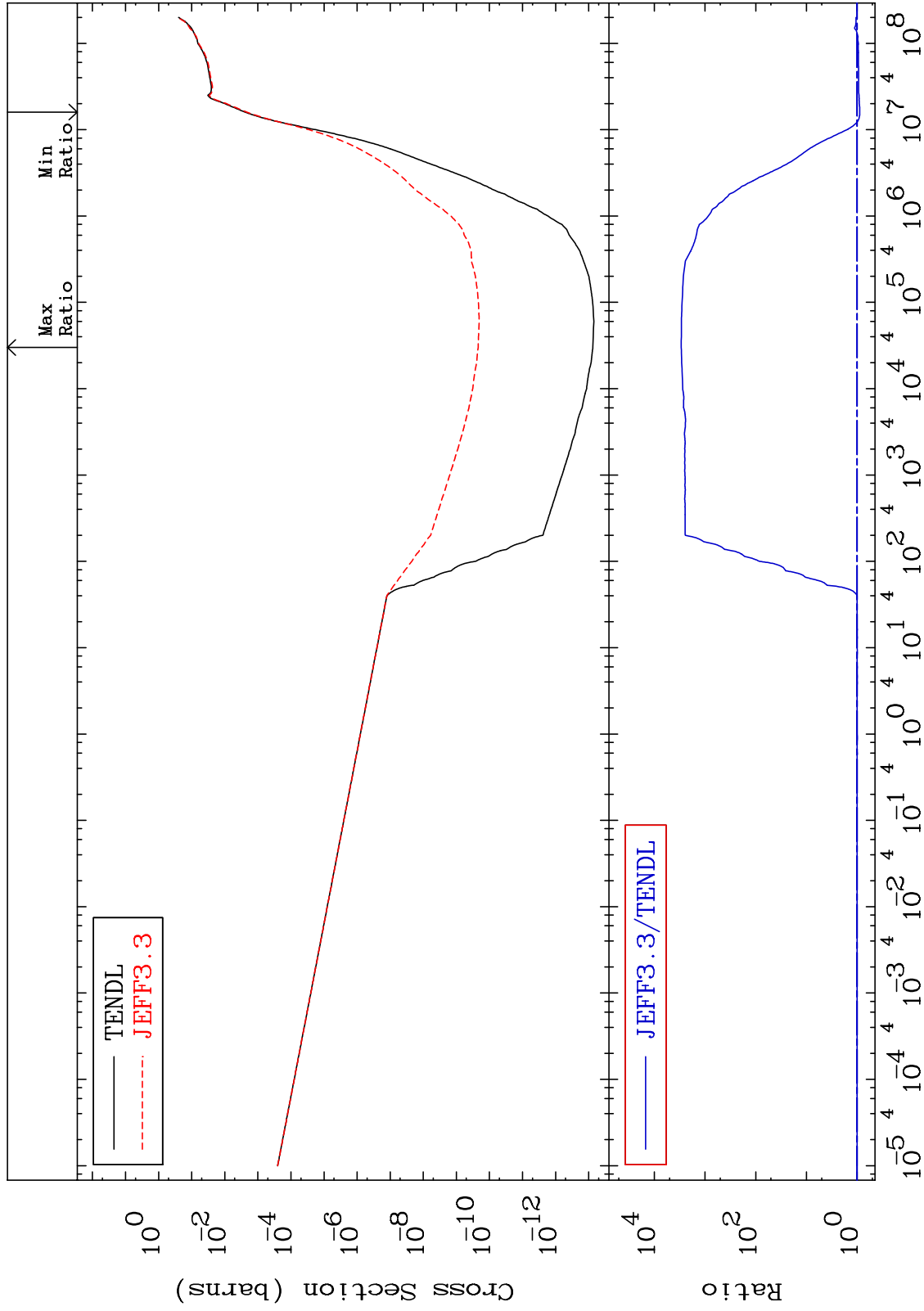
64

78-Pt-194

MAT 7837

He-4 Production
Cross Section

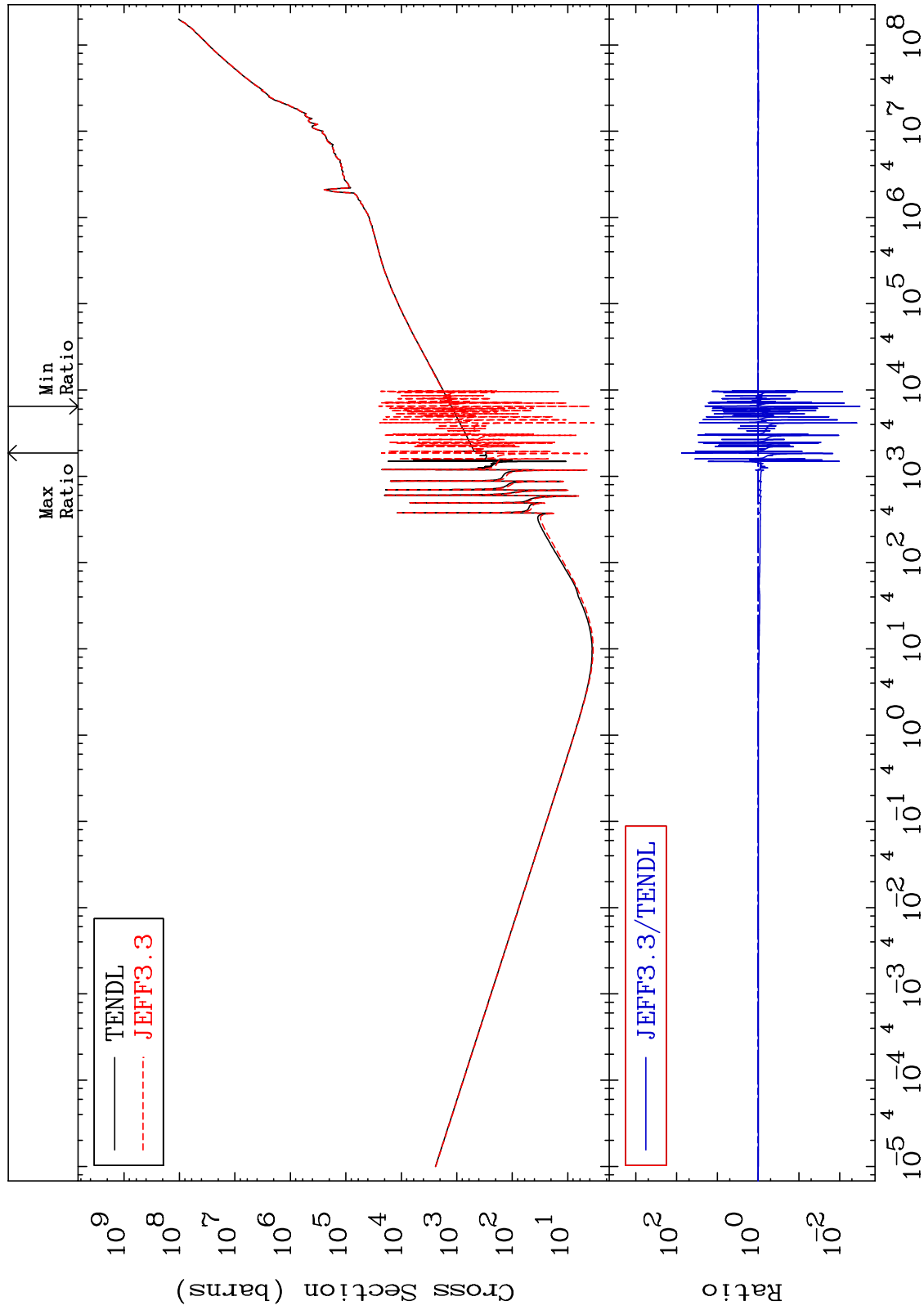
78-Pt-194
-11.21 To 9999. %



MAT 7837

Kerma total (eV-barns)
Cross Section

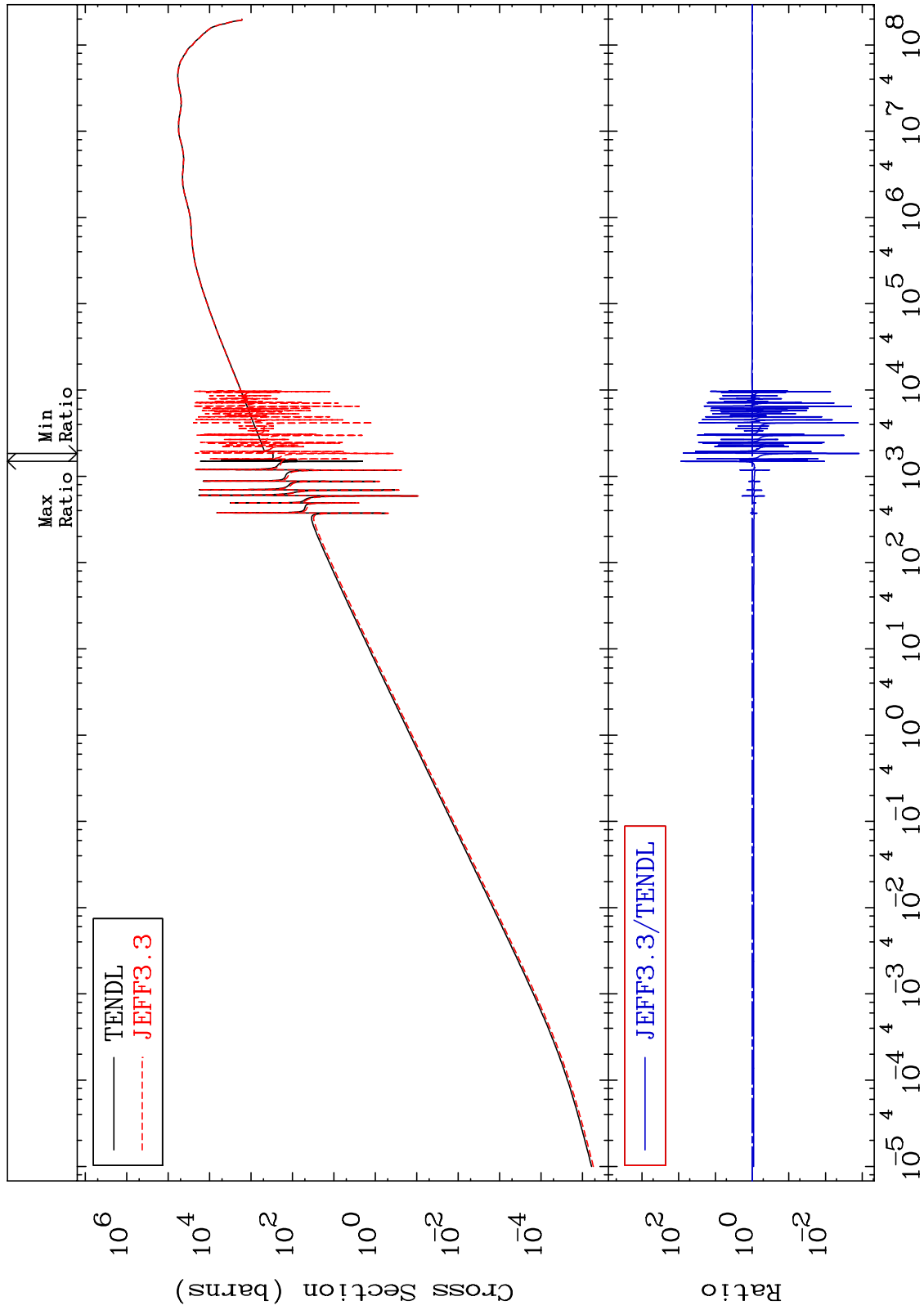
78-Pt-194
-99.68 To 7522. %



MAT 7837

Kerma elastic
Cross Section

78-Pt-194
-99.88 To 8731. %



67

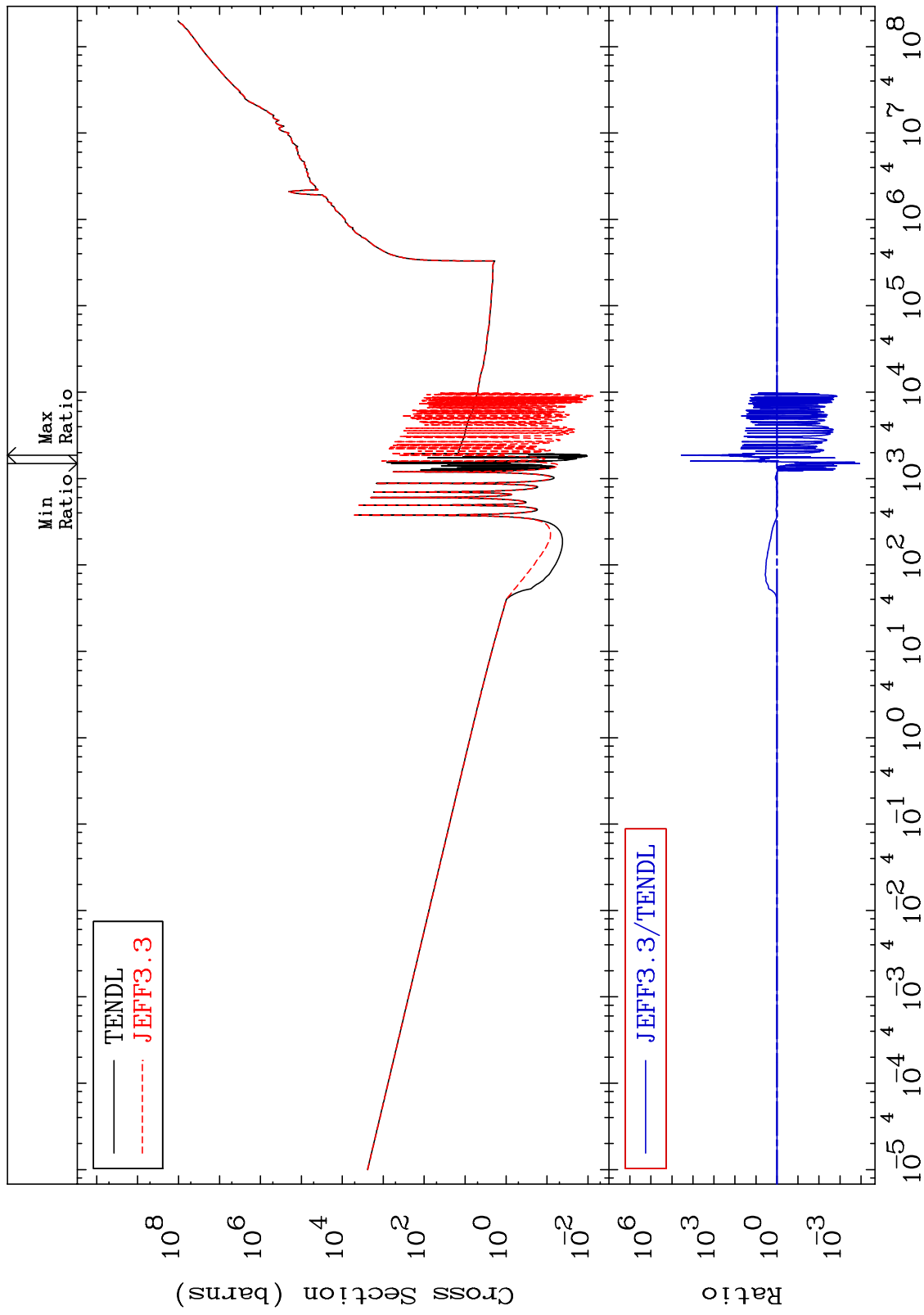
Incident Energy (eV)

78-Pt-194

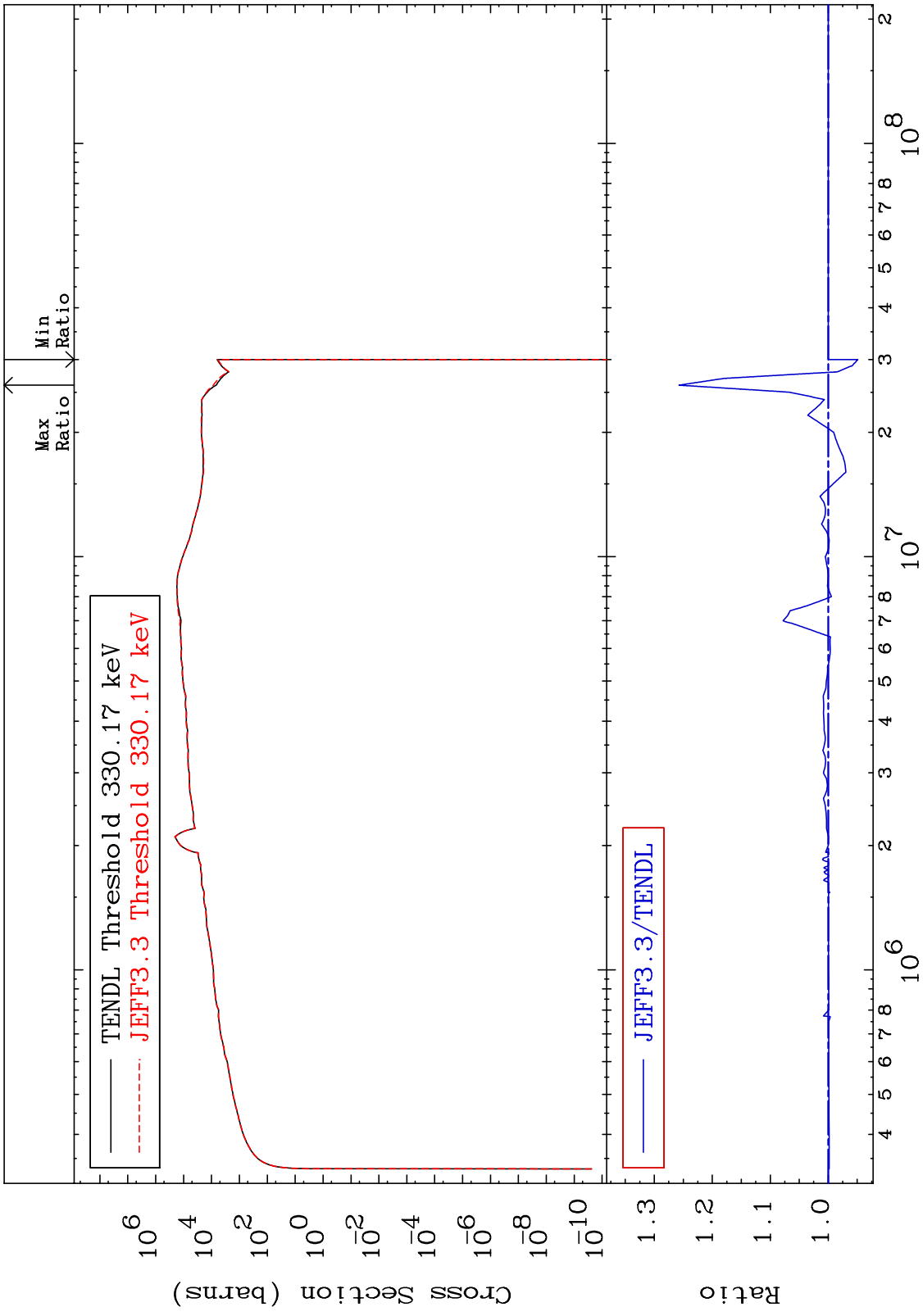
MAT 7837

Kerma non-elastic (all but mt.2)
Cross Section

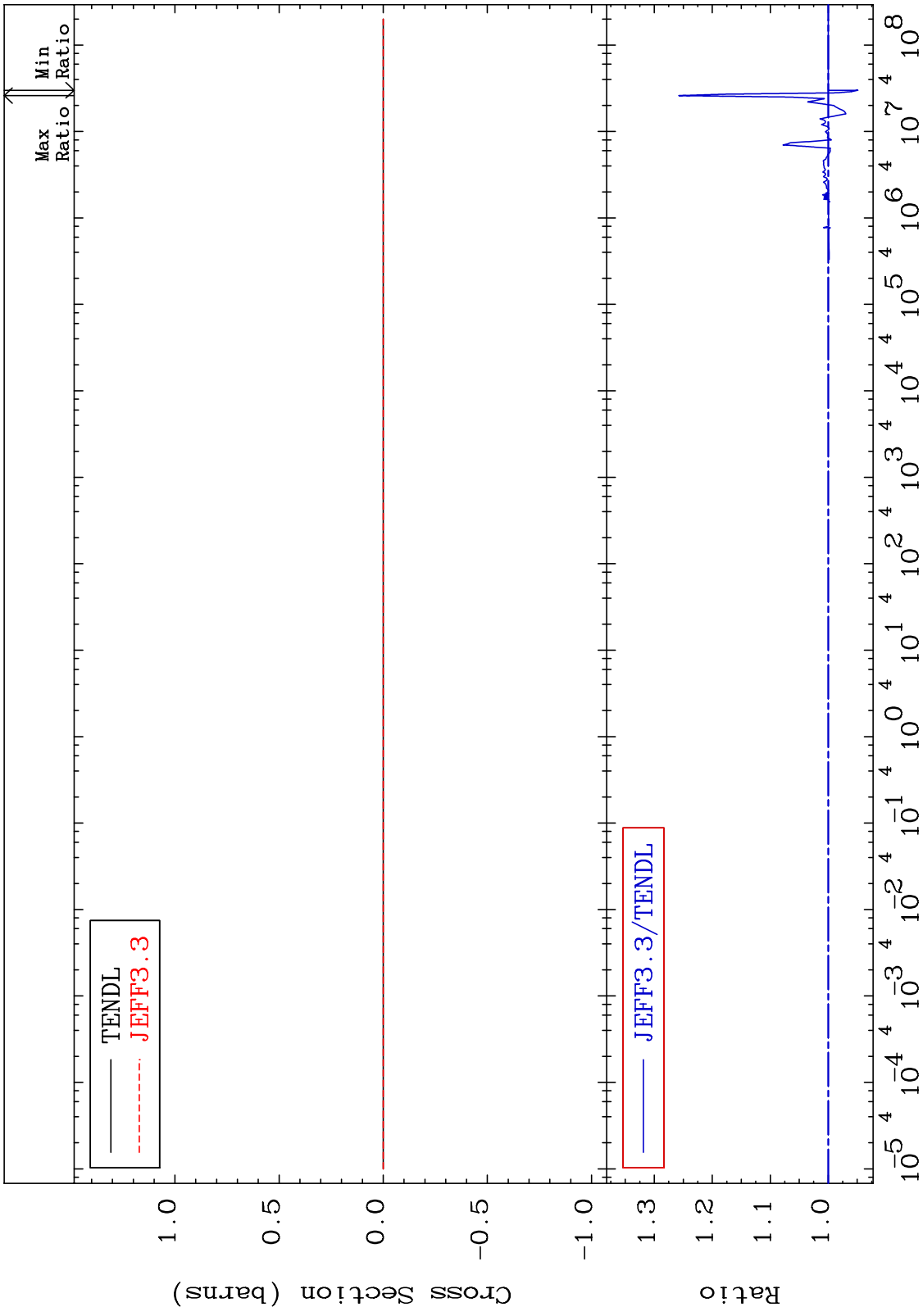
78-Pt-194
-99.99 To 9999. %



MAT 7837 Kerma inelastic (mt51-91) 78-Pt-194
Cross Section -5.105 To 25.73 %



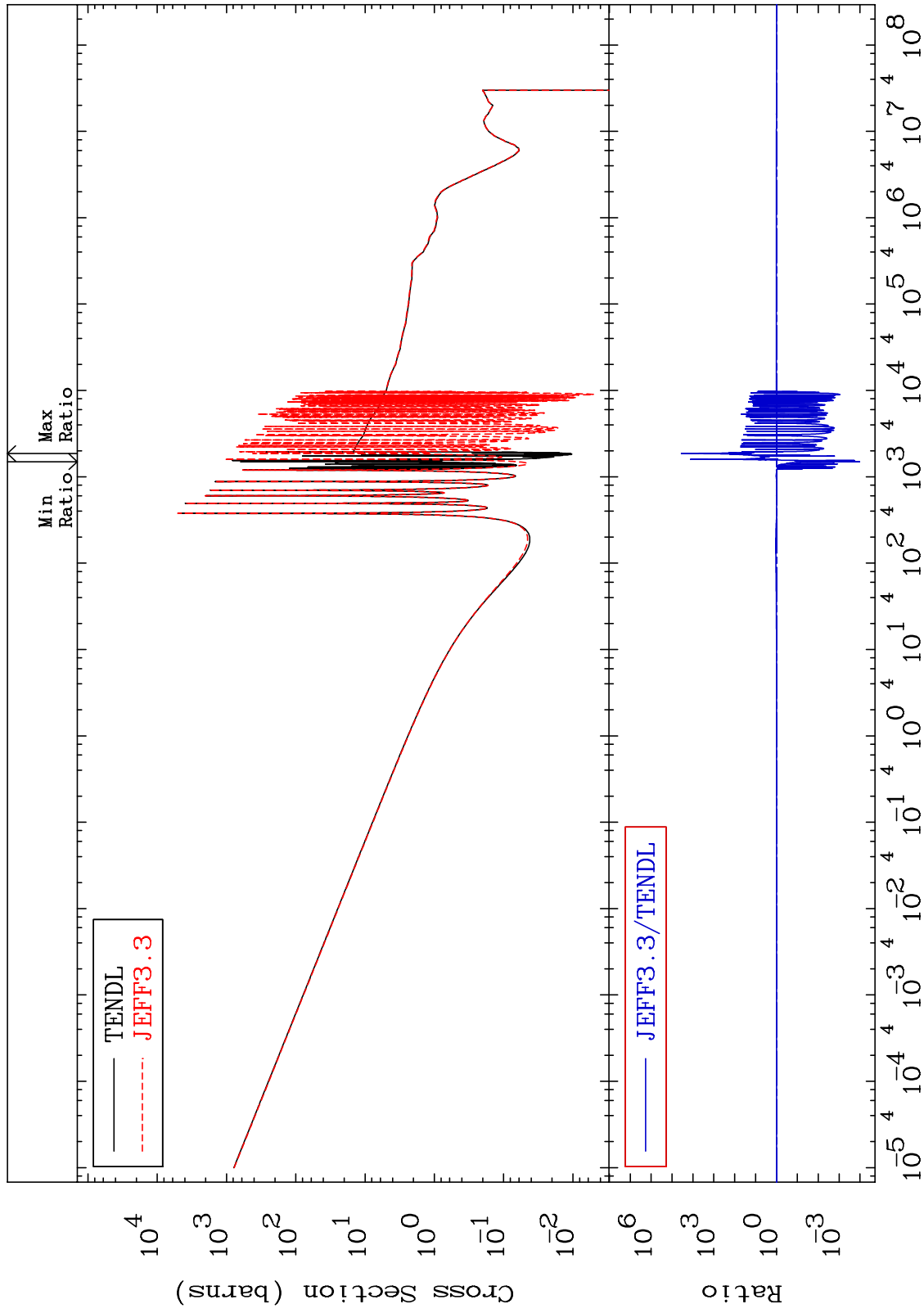
MAT 7837 Kerma fission (mt18 or mt19-20-21-38) 78-Pt-194
 Cross Section -5.105 To 25.73 %



MAT 7837

Kerma capture (mt102)
Cross Section

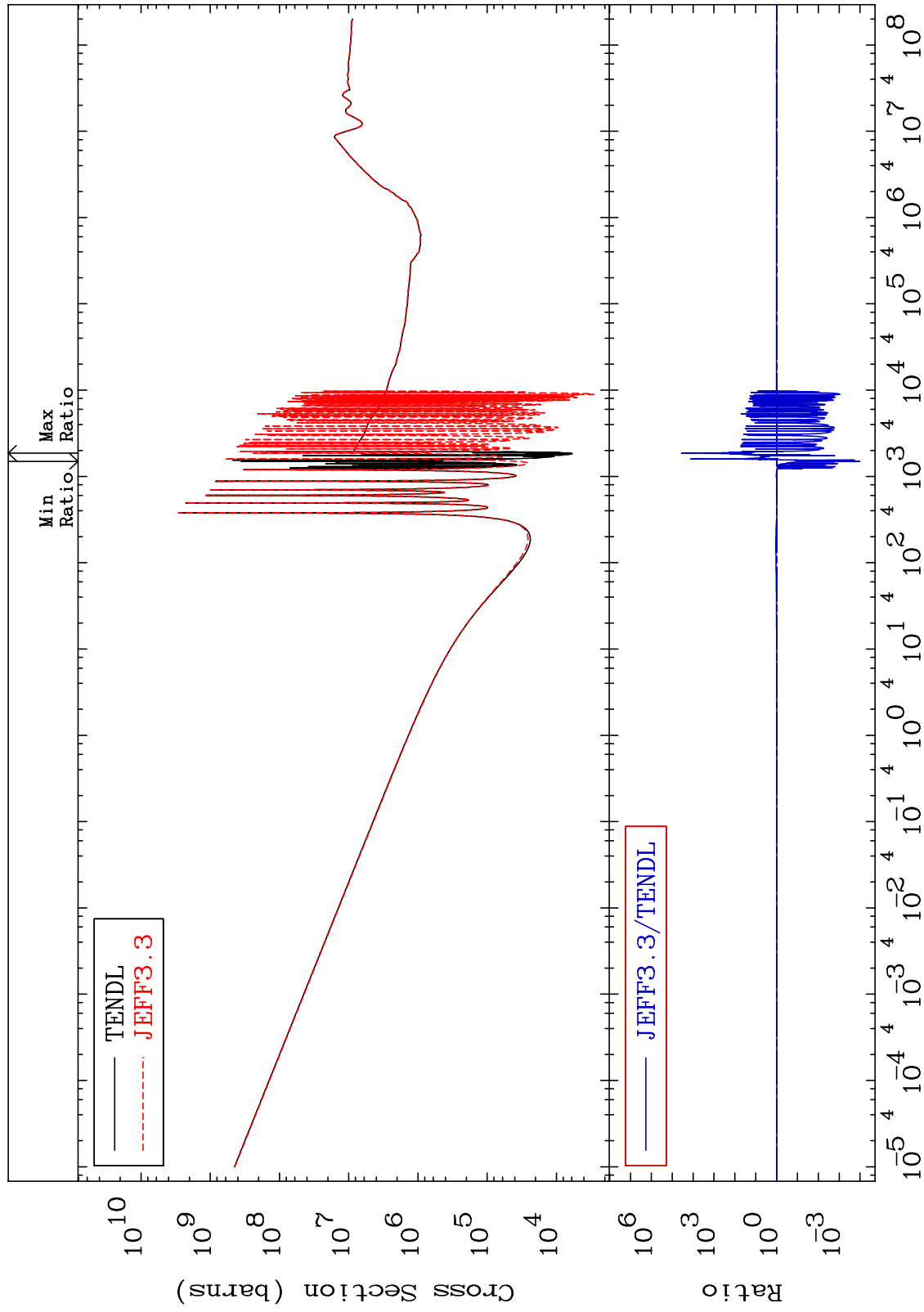
78-Pt-194
-99.99 To 9999. %



MAT 7837

Total photon (eV-barns)
Cross Section

78-Pt-194
-99.99 To 9999. %

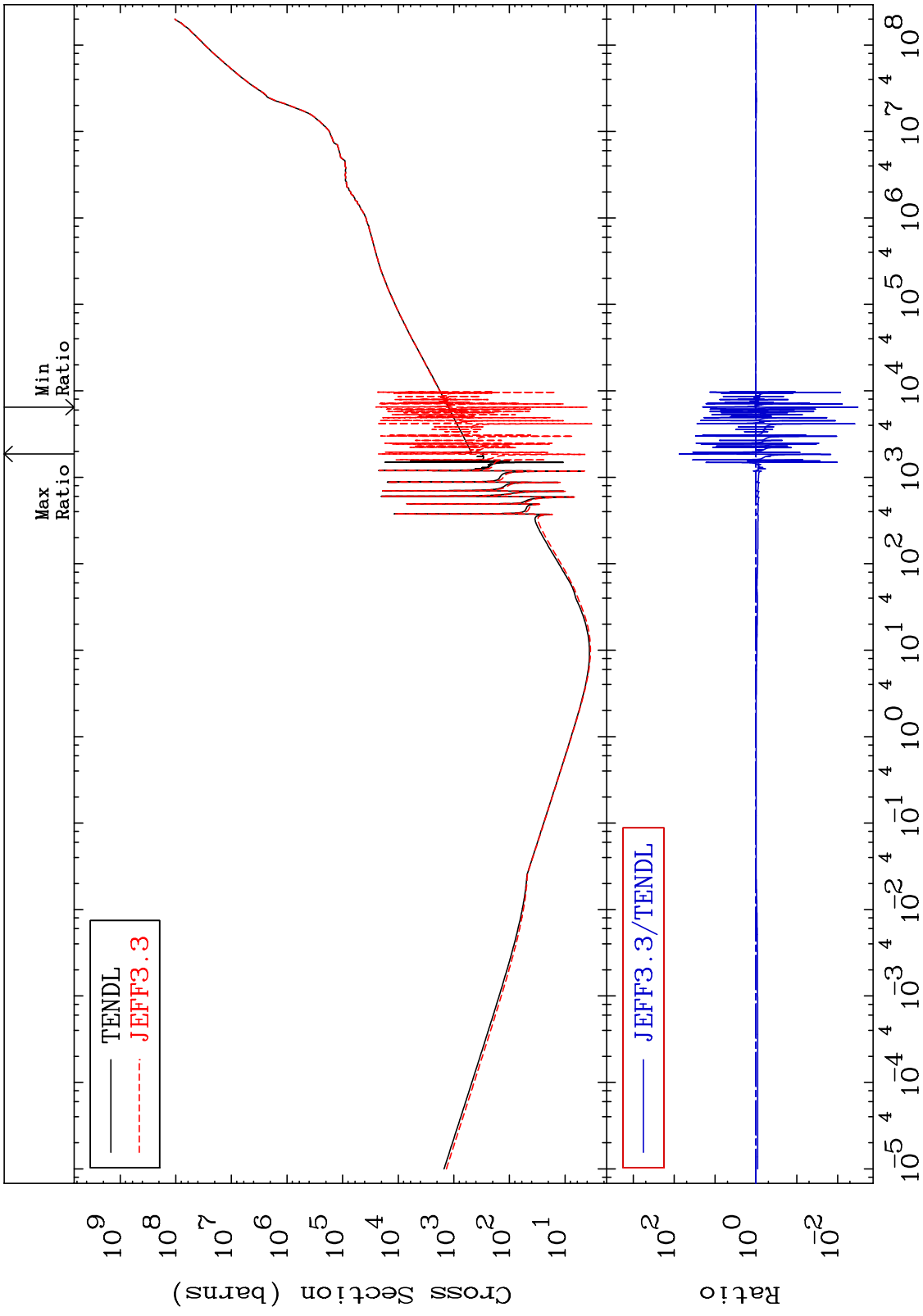


72

Incident Energy (eV)

78-Pt-194

MAT 7837 Total kinematic kerma (high limit) 78-Pt-194
 Cross Section -99.68 To 7522. %

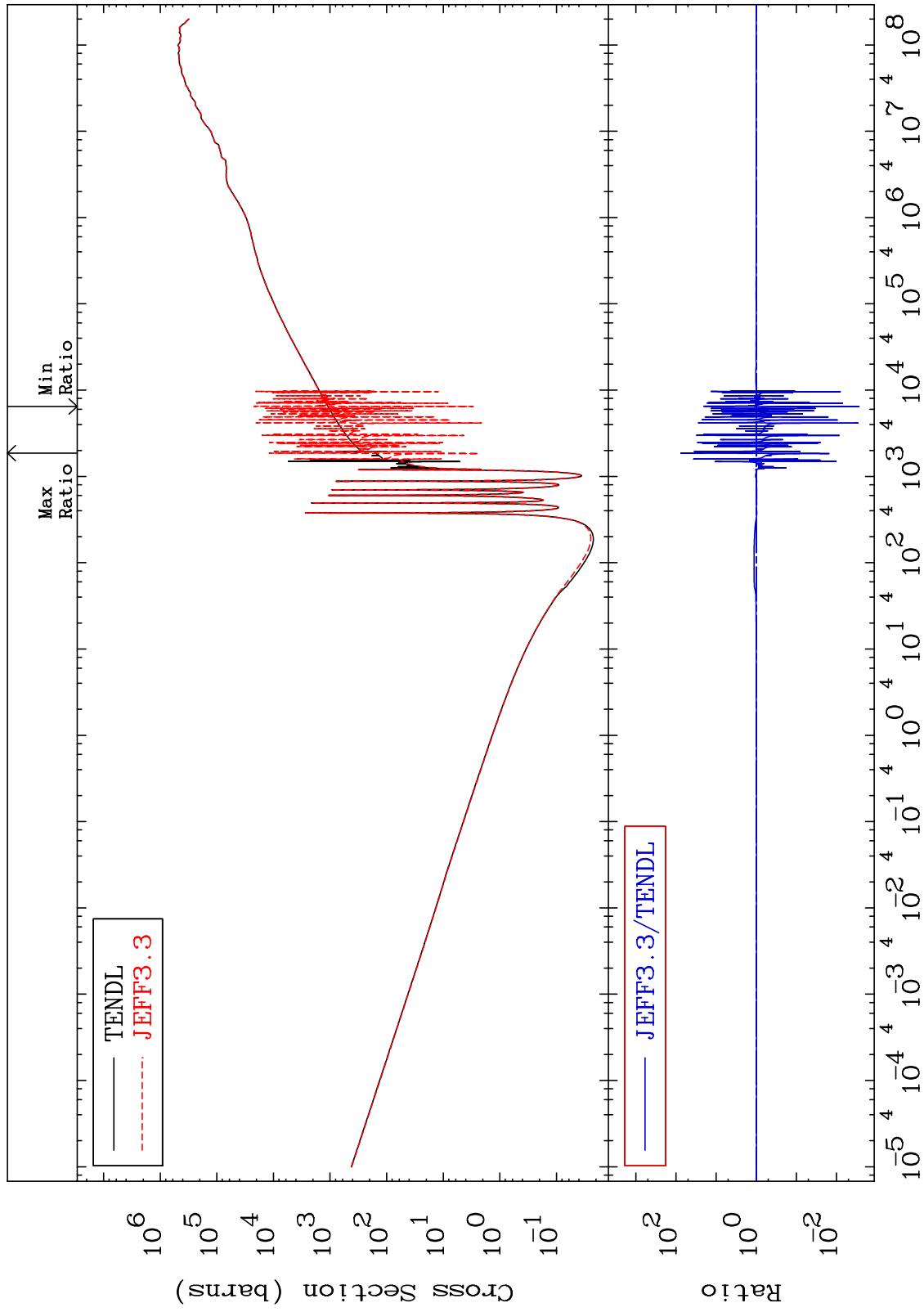


73 Incident Energy (eV) 78-Pt-194

MAT 7837

Dpa total (eV-barns)
Cross Section

78-Pt-194
-99.73 To 7525. %



74

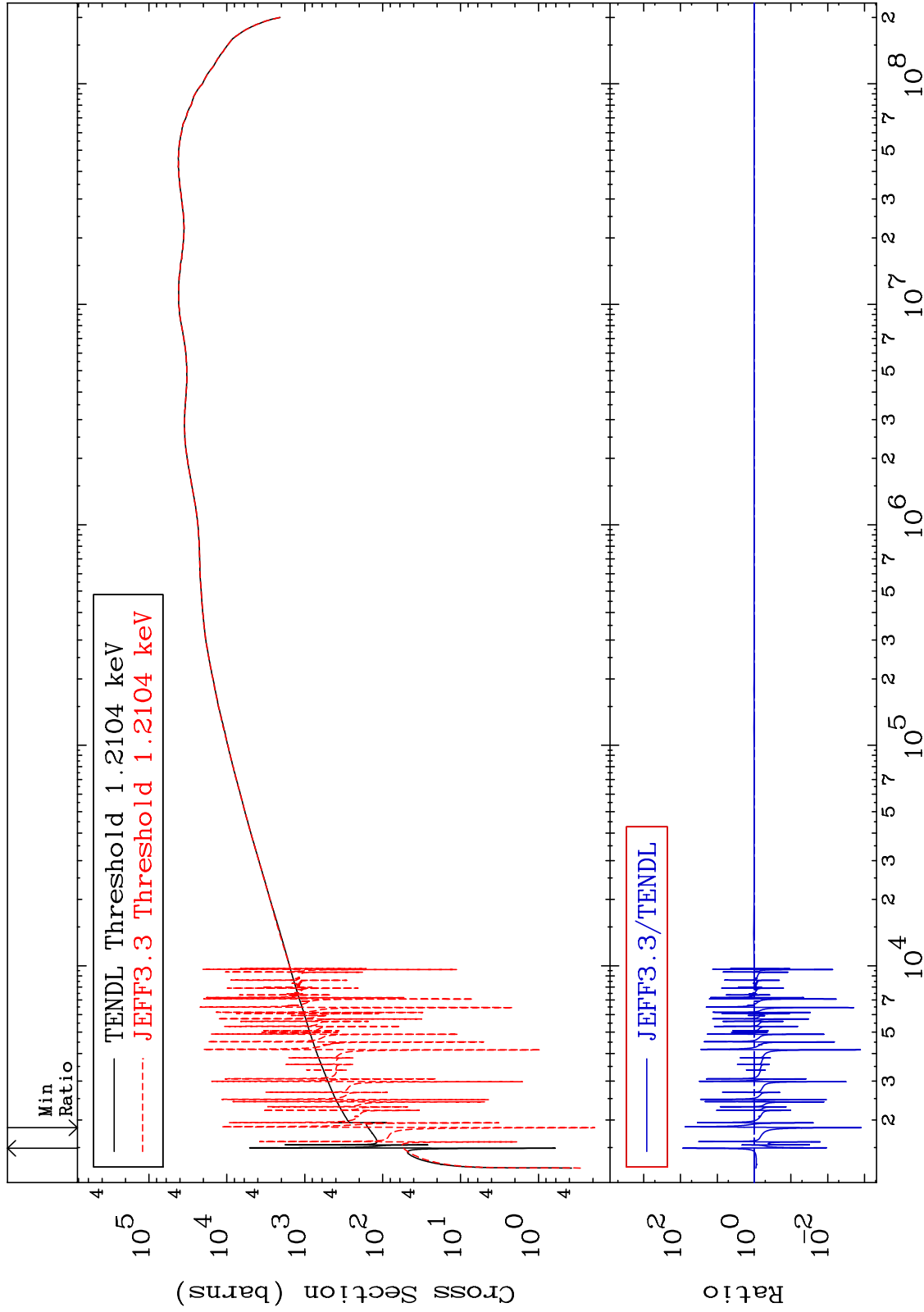
Incident Energy (eV)

78-Pt-194

MAT 7837

Dpa elastic (mt2)
Cross Section

78-Pt-194
-99.88 To 8731. %



75

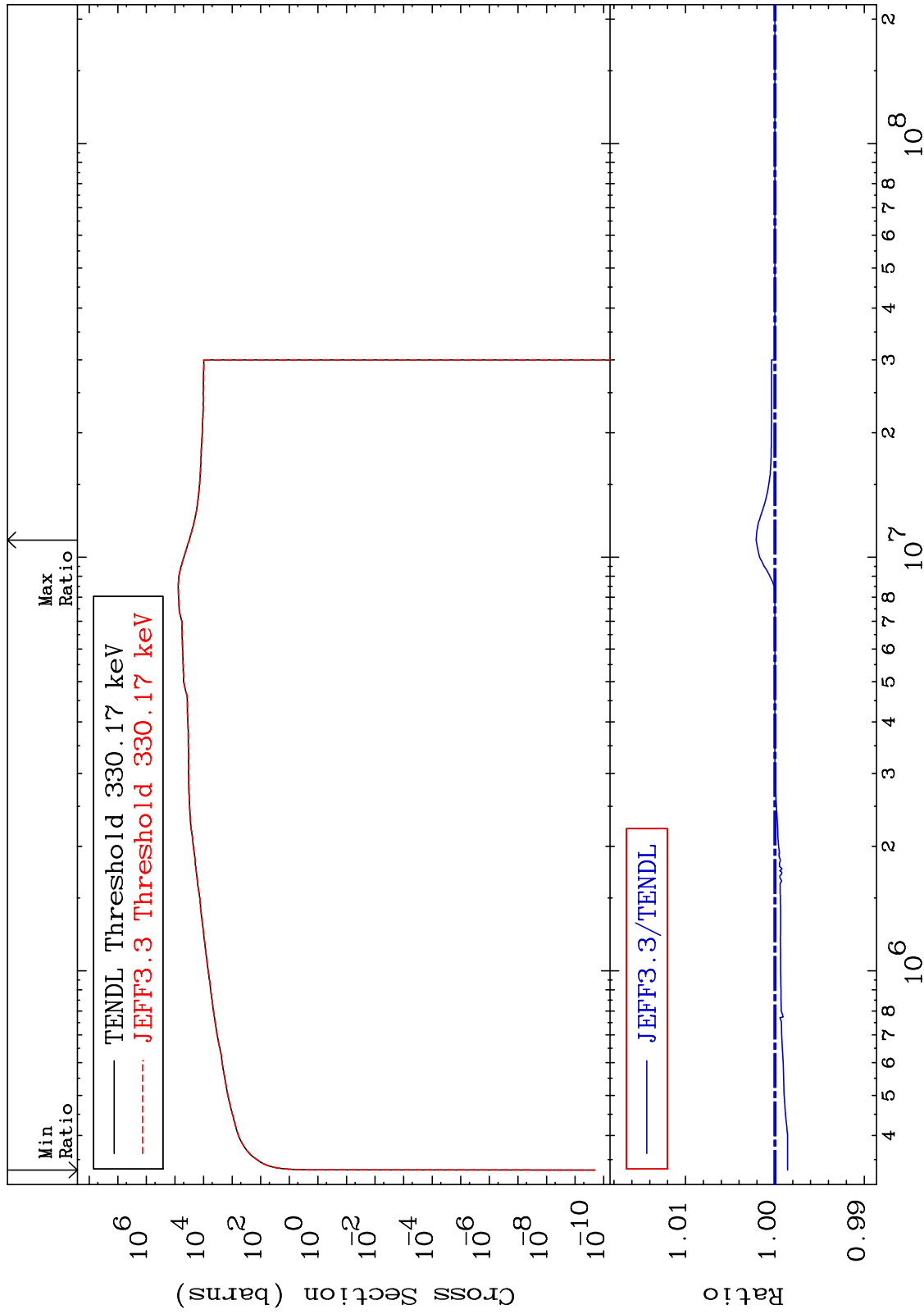
Incident Energy (eV)

78-Pt-194

MAT 7837

Dpa inelastic (mt51-91)
Cross Section

78-Pt-194
-0.142 To 0.210 %



76

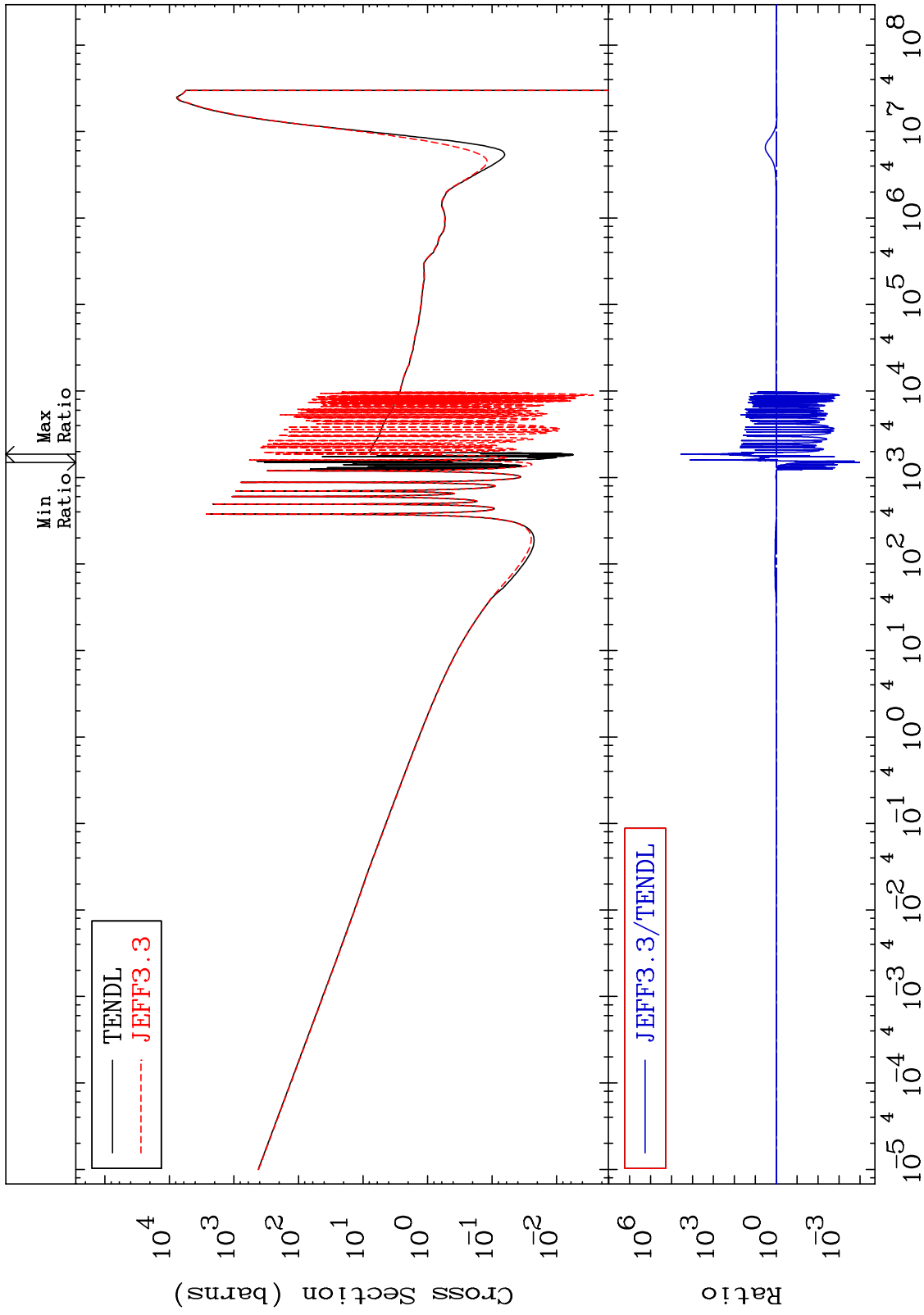
Incident Energy (eV)

78-Pt-194

MAT 7837

Dpa disappearance (mt102 -120)
Cross Section

78-Pt-194
-99.99 To 9999. %



77

Incident Energy (eV)

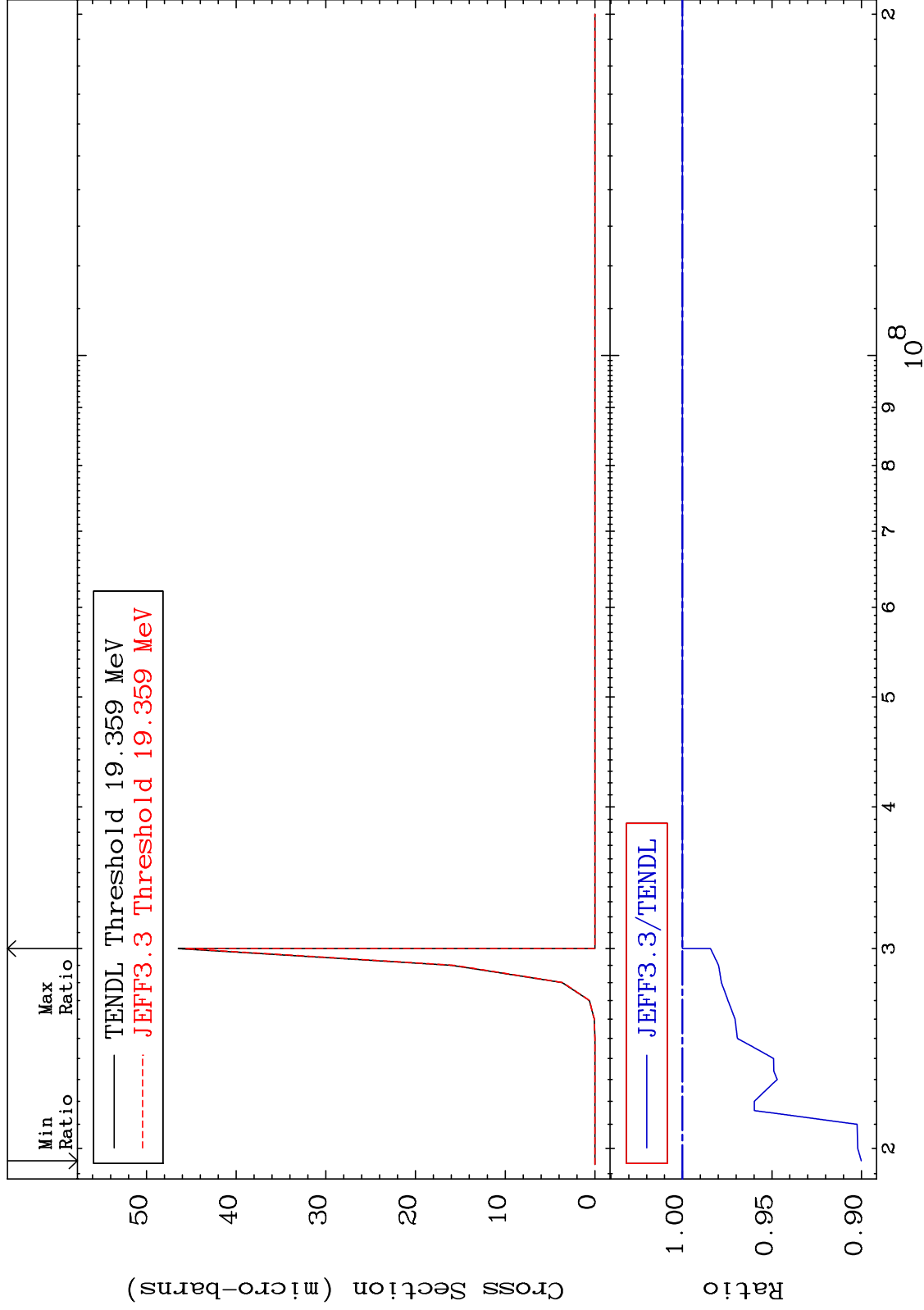
78-Pt-194

MAT 7837

(n,2n) d:77-Ir-191g

78-Pt-194

Radionuclide Production Cross Section -9.993 To 0.000 %



78

Incident Energy (eV)

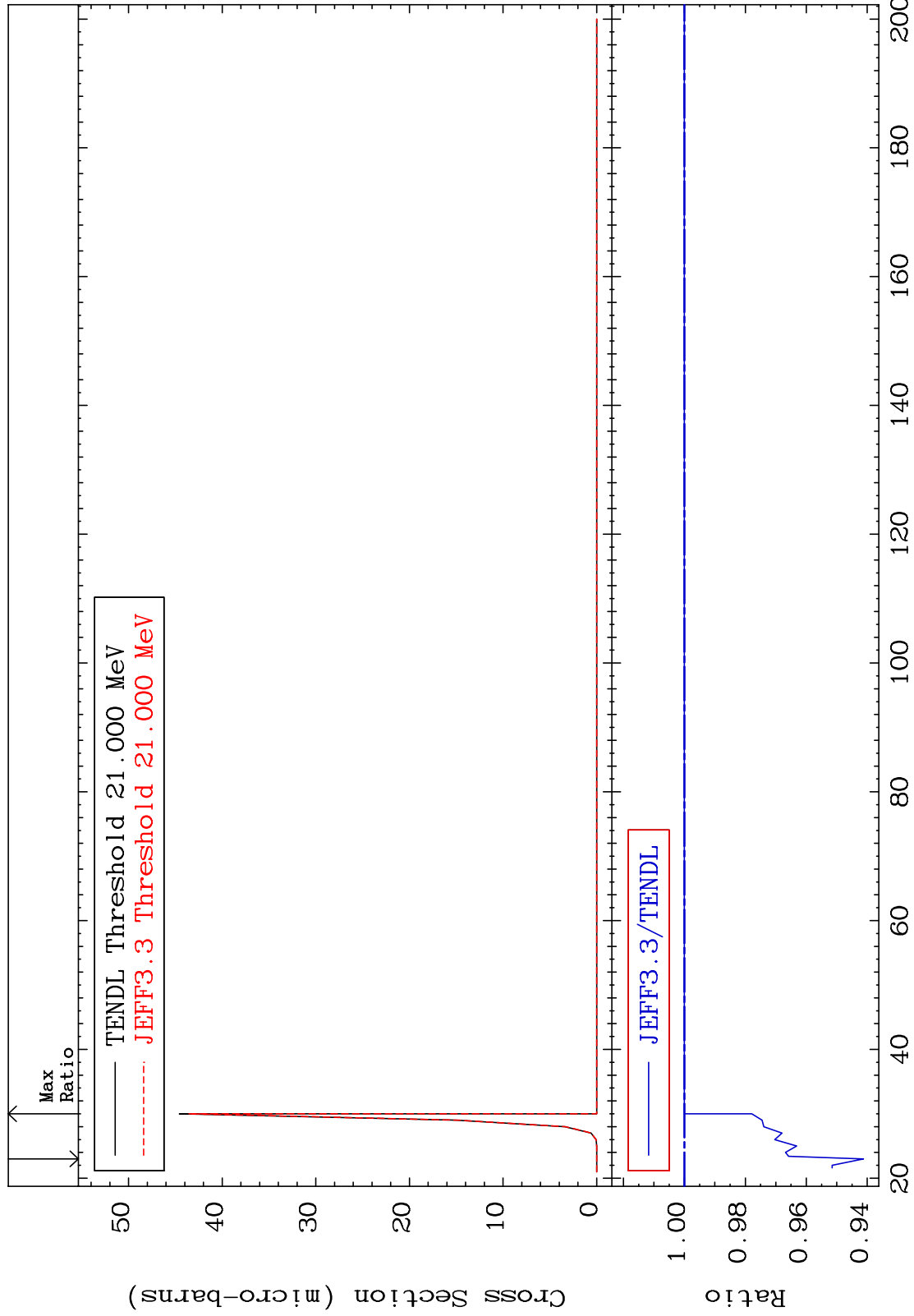
78-Pt-194

MAT 7837

(n,2n) d:77-Ir-191m3

78-Pt-194

Radionuclide Production Cross Section -5.877 To 0.000 %



79

Incident Energy (MeV)

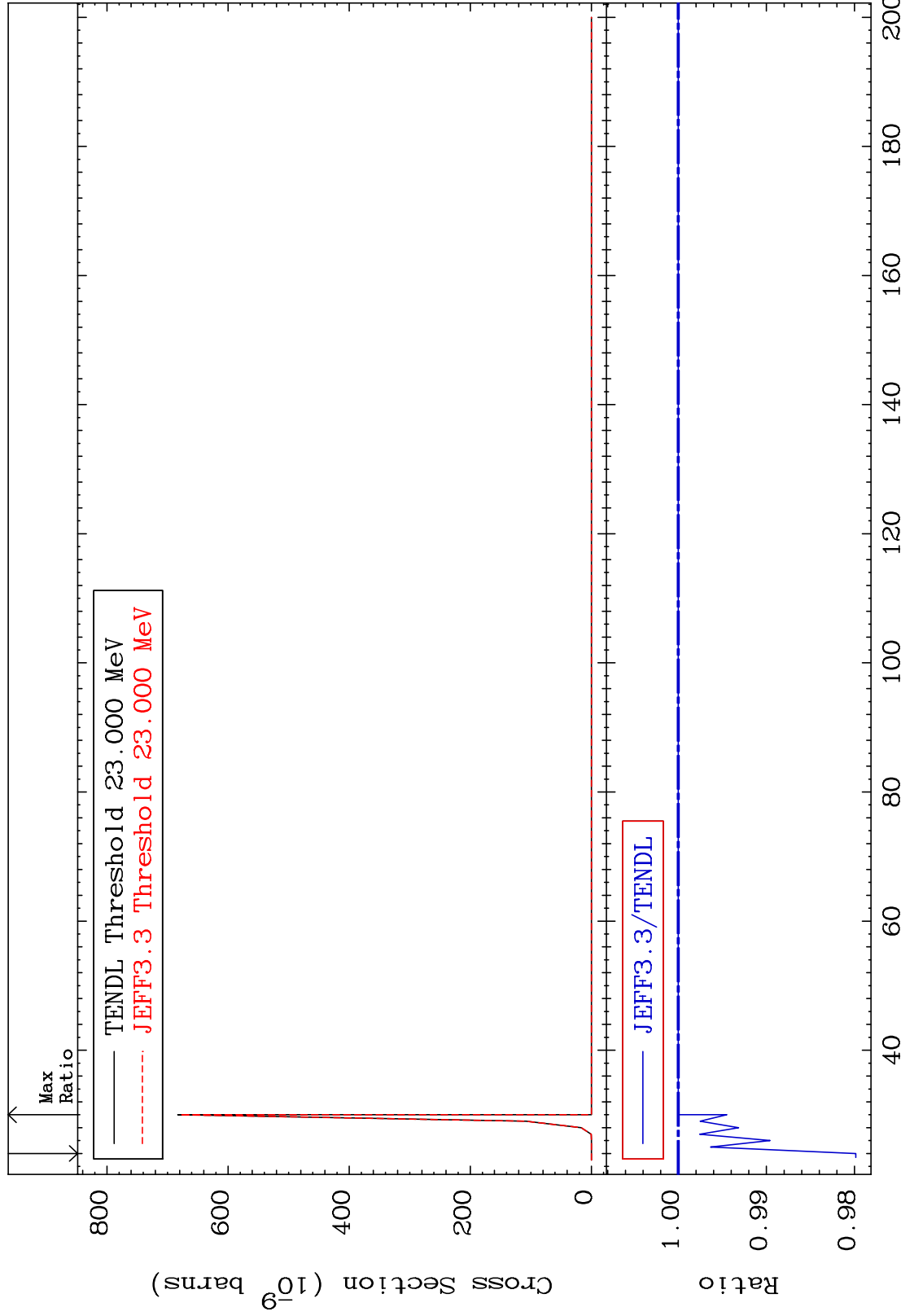
78-Pt-194

MAT 7837

(n,2n) d:77-Ir-191m10

78-Pt-194

Radionuclide Production Cross Section -2.014 To 0.000 %



80

Incident Energy (MeV)

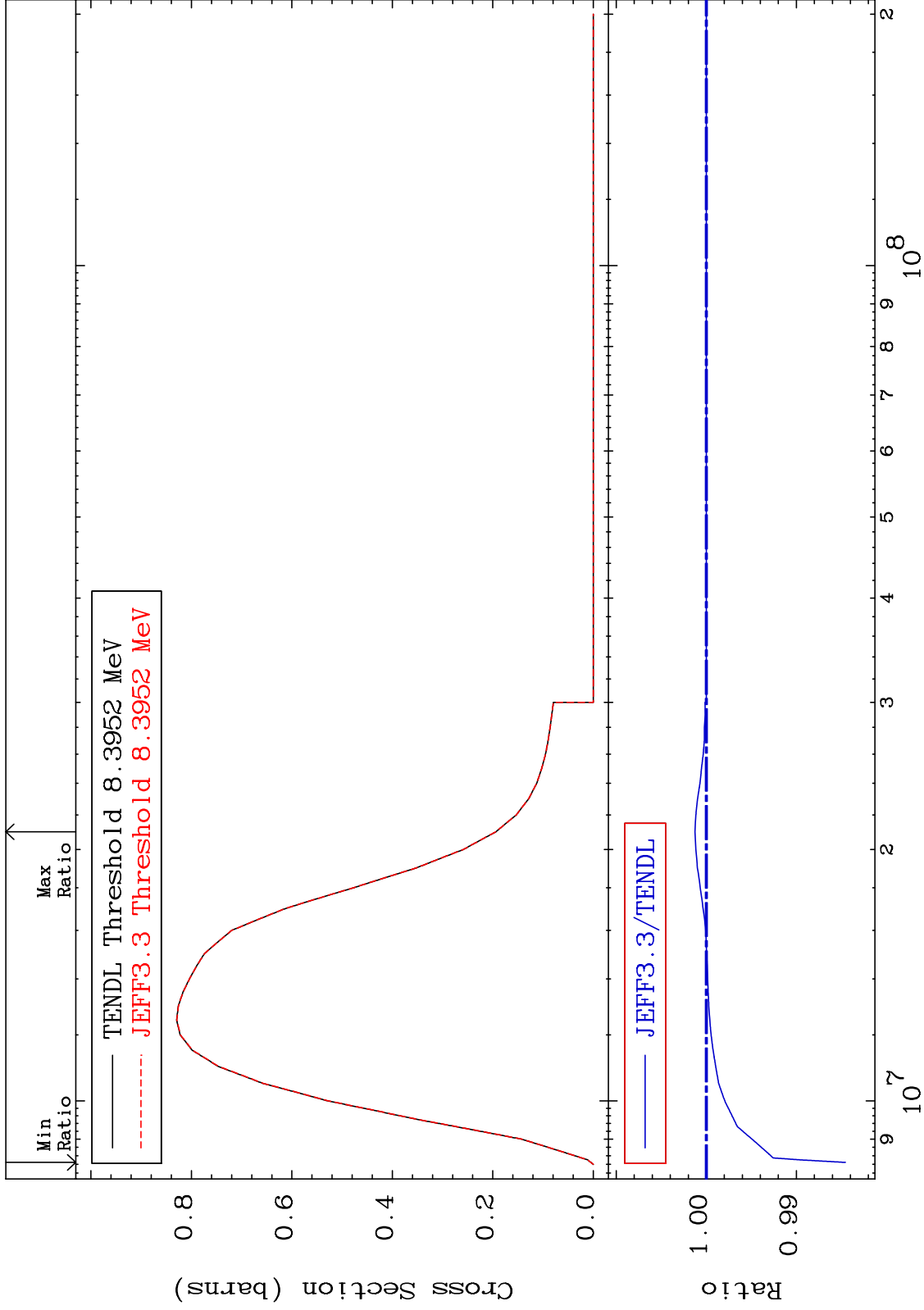
78-Pt-194

MAT 7837

(n,2n):78-Pt-193g

78-Pt-194

Radionuclide Production Cross Section -1.546 To 0.126 %

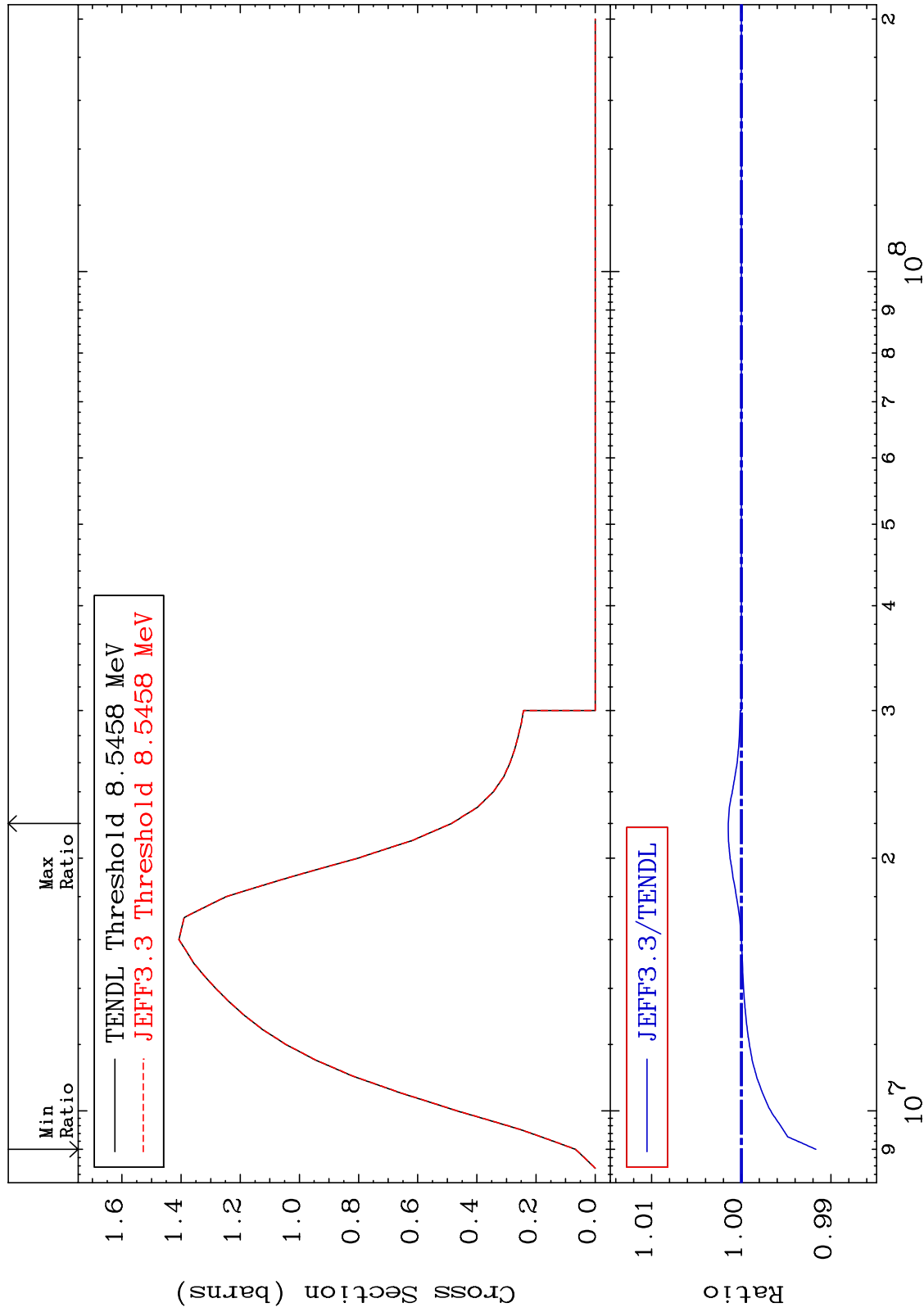


MAT 7837

(n,2n):78-Pt-193m5

78-Pt-194

Radionuclide Production Cross Section -0.831 To 0.146 %



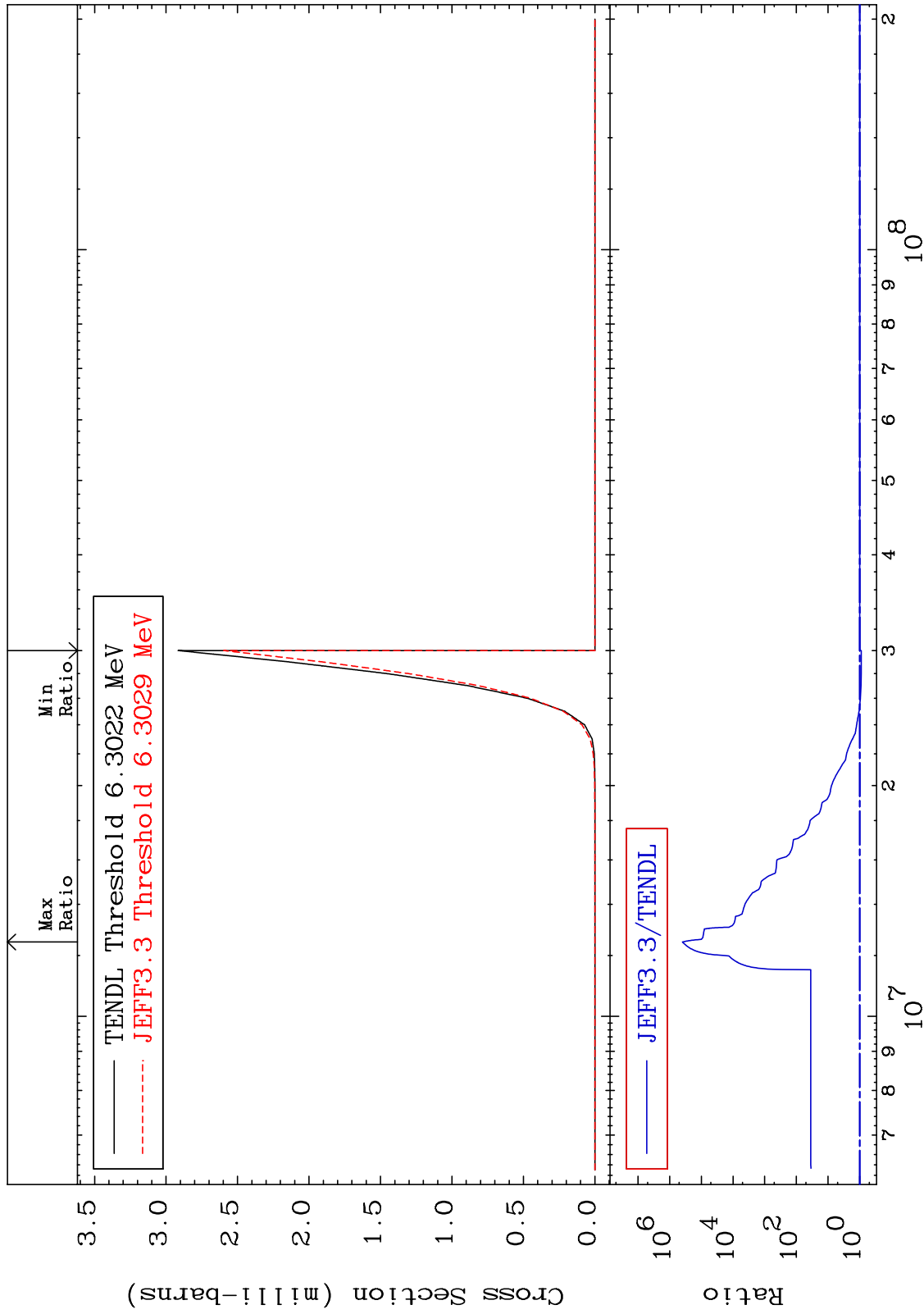
82

Incident Energy (eV)

78-Pt-194

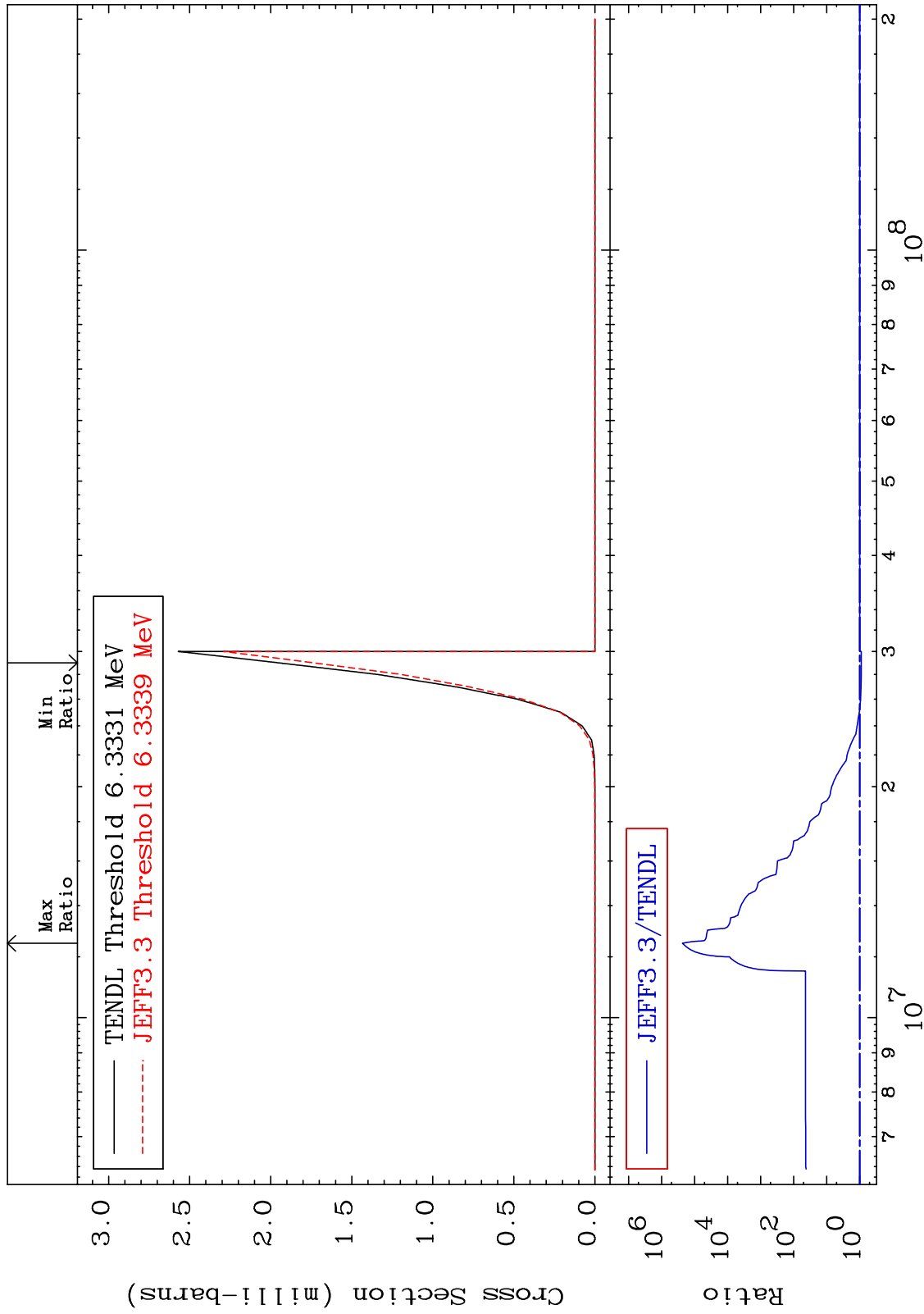
MAT 7837

(n,2n) α : 76-0s-189g 78-Pt-194
Radionuclide Production Cross Section -10.96 To 9999. %



MAT 7837

(n,2n) α :76-0s-189m1 78-Pt-194
Radionuclide Production Cross Section -11.07 To 9999. %

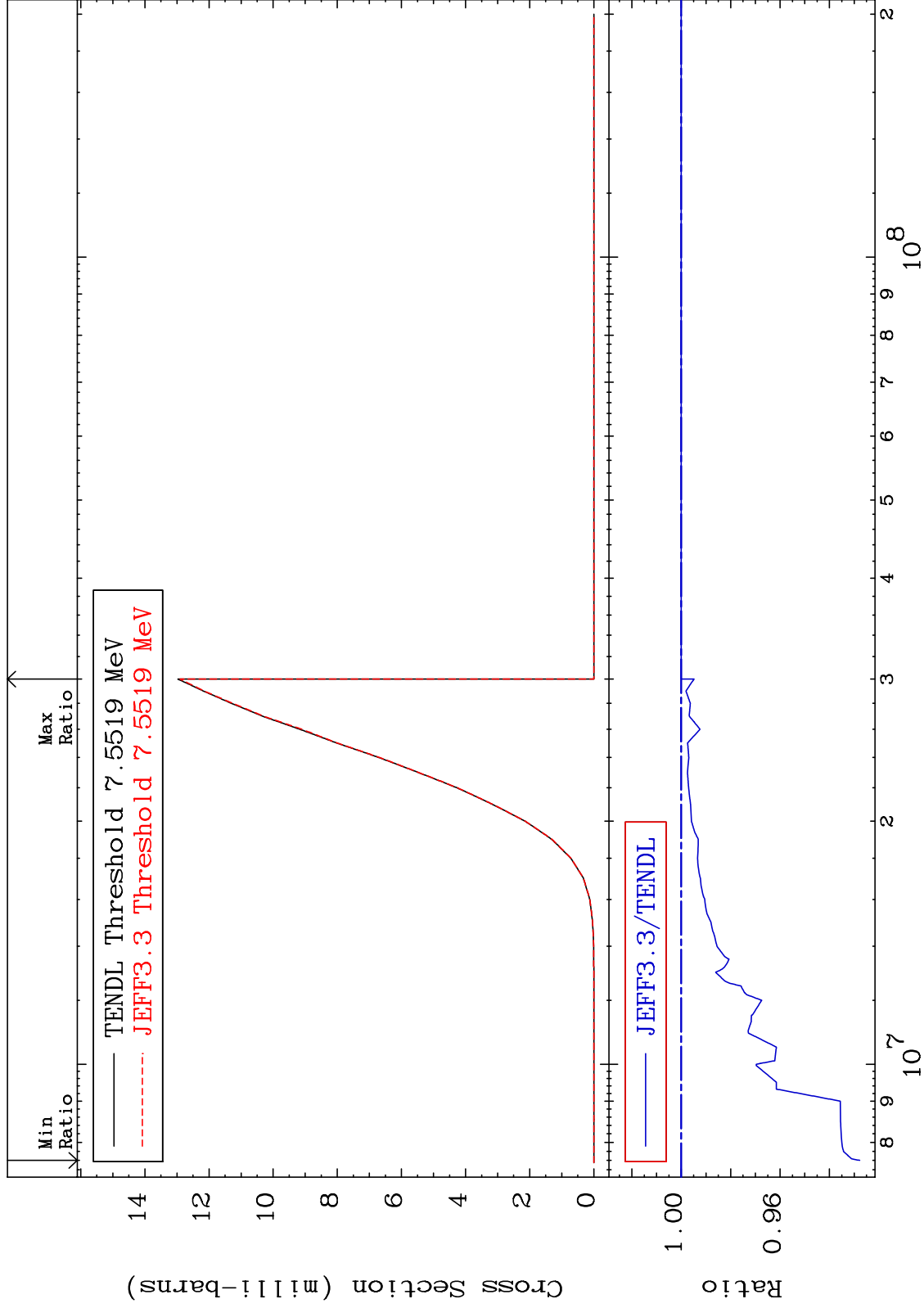


MAT 7837

(n, n') p: 77-Ir-193g

78-Pt-194

Radionuclide Production Cross Section -7.225 To 0.000 %



85

Incident Energy (eV)

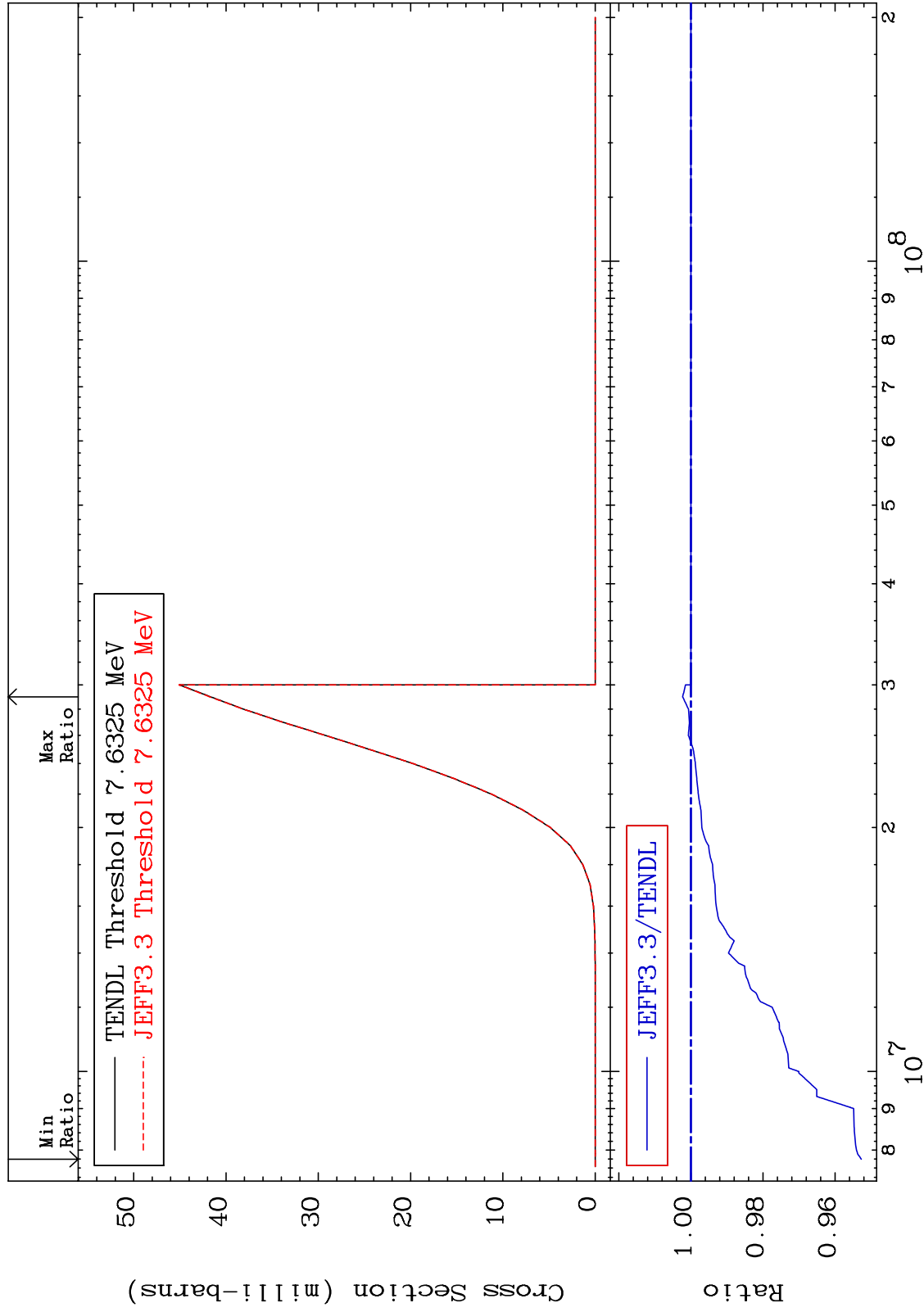
78-Pt-194

MAT 7837

(n, n') p:77-Ir-193m2

78-Pt-194

Radionuclide Production Cross Section -4.729 To 0.229 %

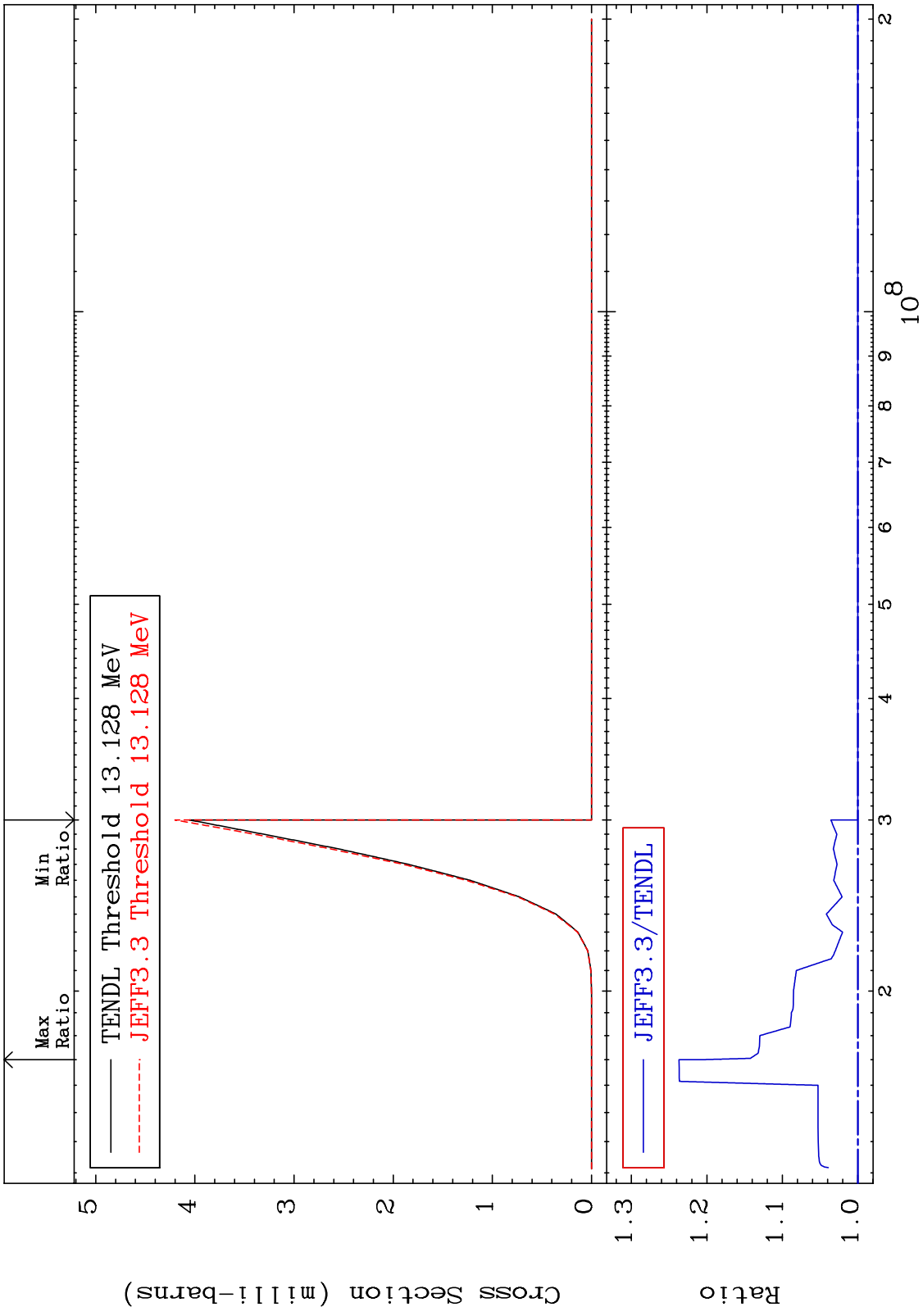


86

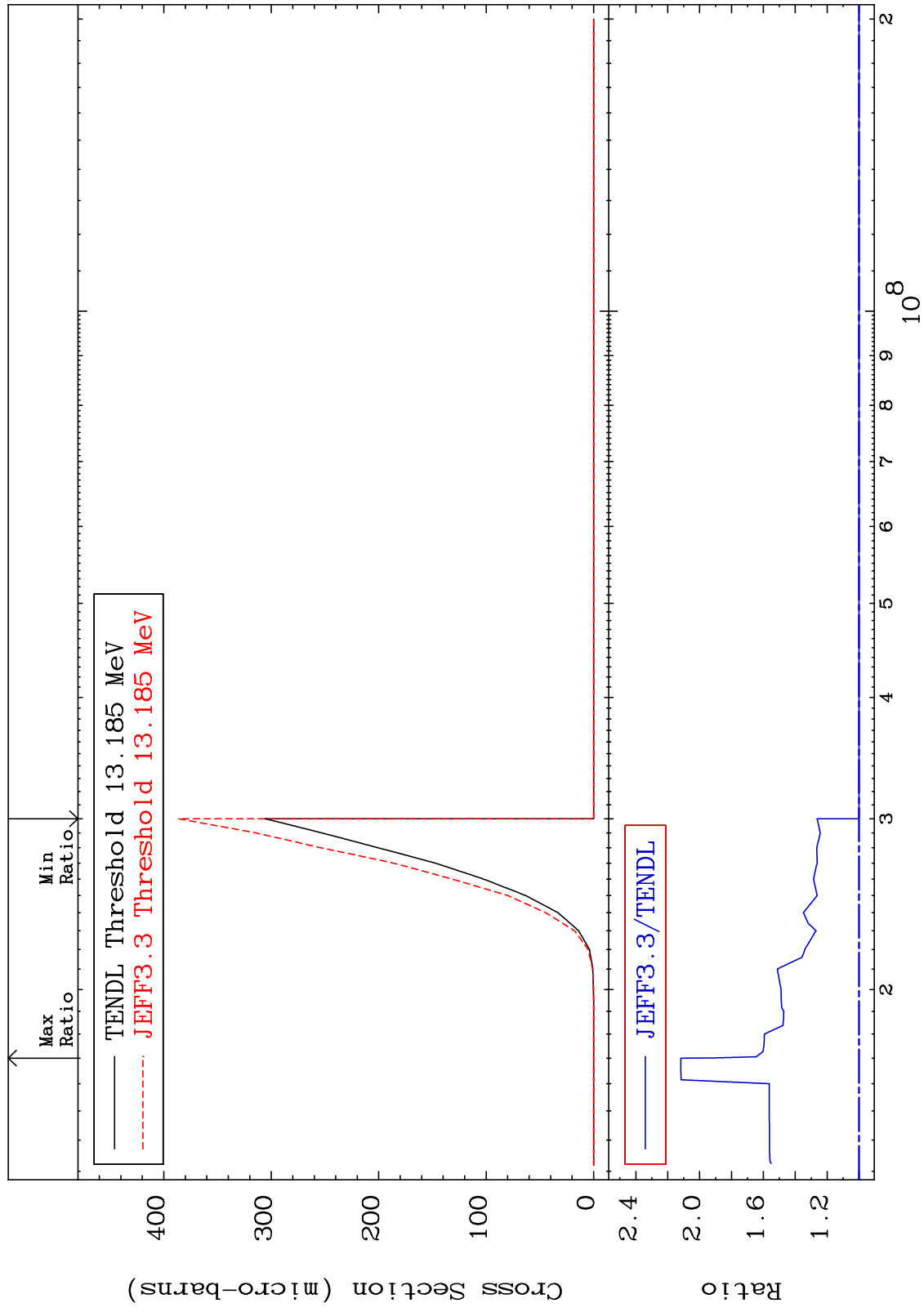
Incident Energy (eV)

78-Pt-194

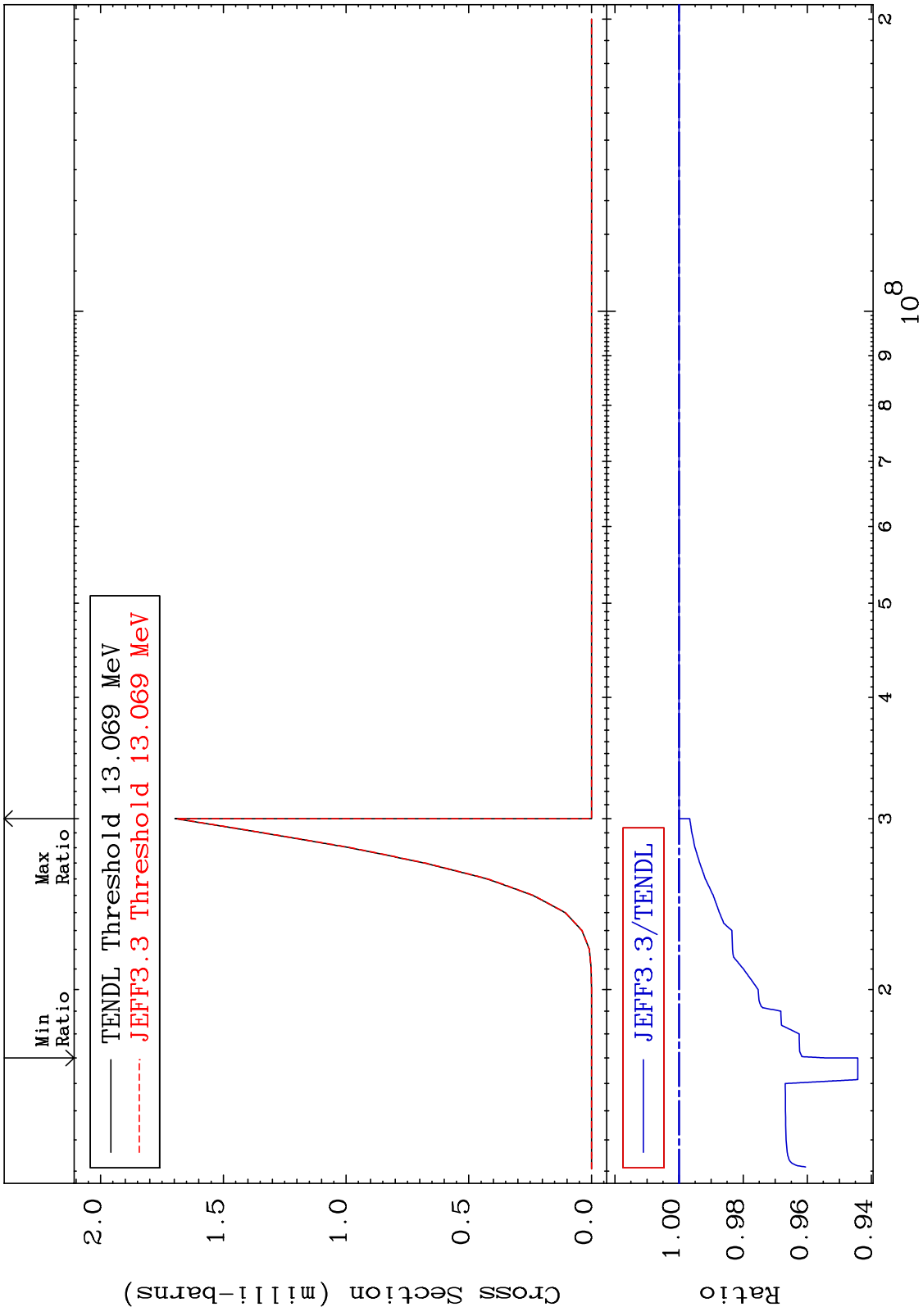
MAT 7837 (n, n') d: 77-Ir-192g 78-Pt-194
 Radionuclide Production Cross Section 0.000 To 23.69 %



MAT 7837 (n,n') d:77-Ir-192m3 78-Pt-194
Radionuclide Production Cross Section 0.000 To 111.8 %



MAT 7837 (n,n') t:77-Ir-191g 78-Pt-194
 Radionuclide Production Cross Section -5.576 To 0.000 %

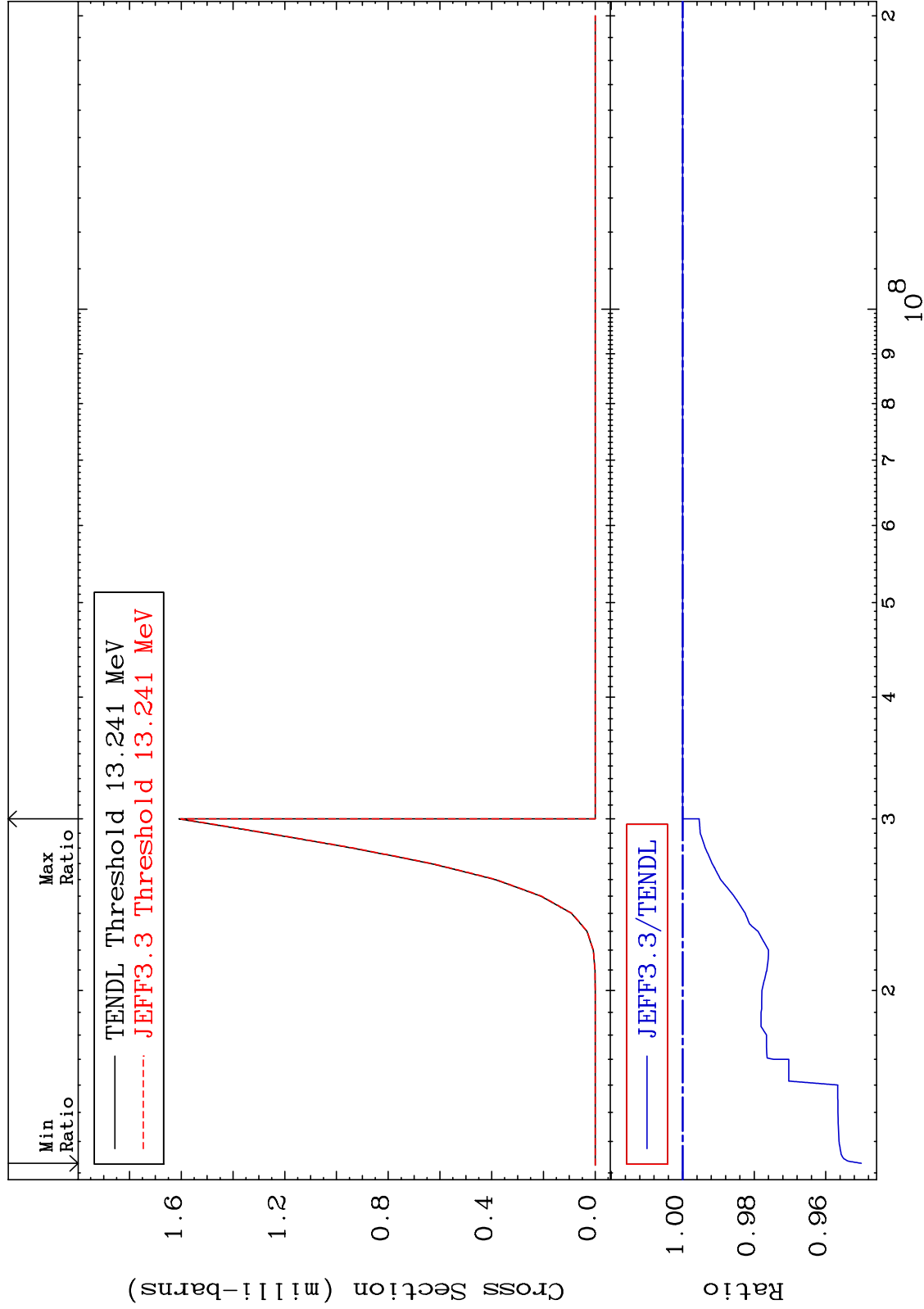


MAT 7837

(n,n') t:77-Ir-191m3

78-Pt-194

Radionuclide Production Cross Section -4.997 To 0.000 %

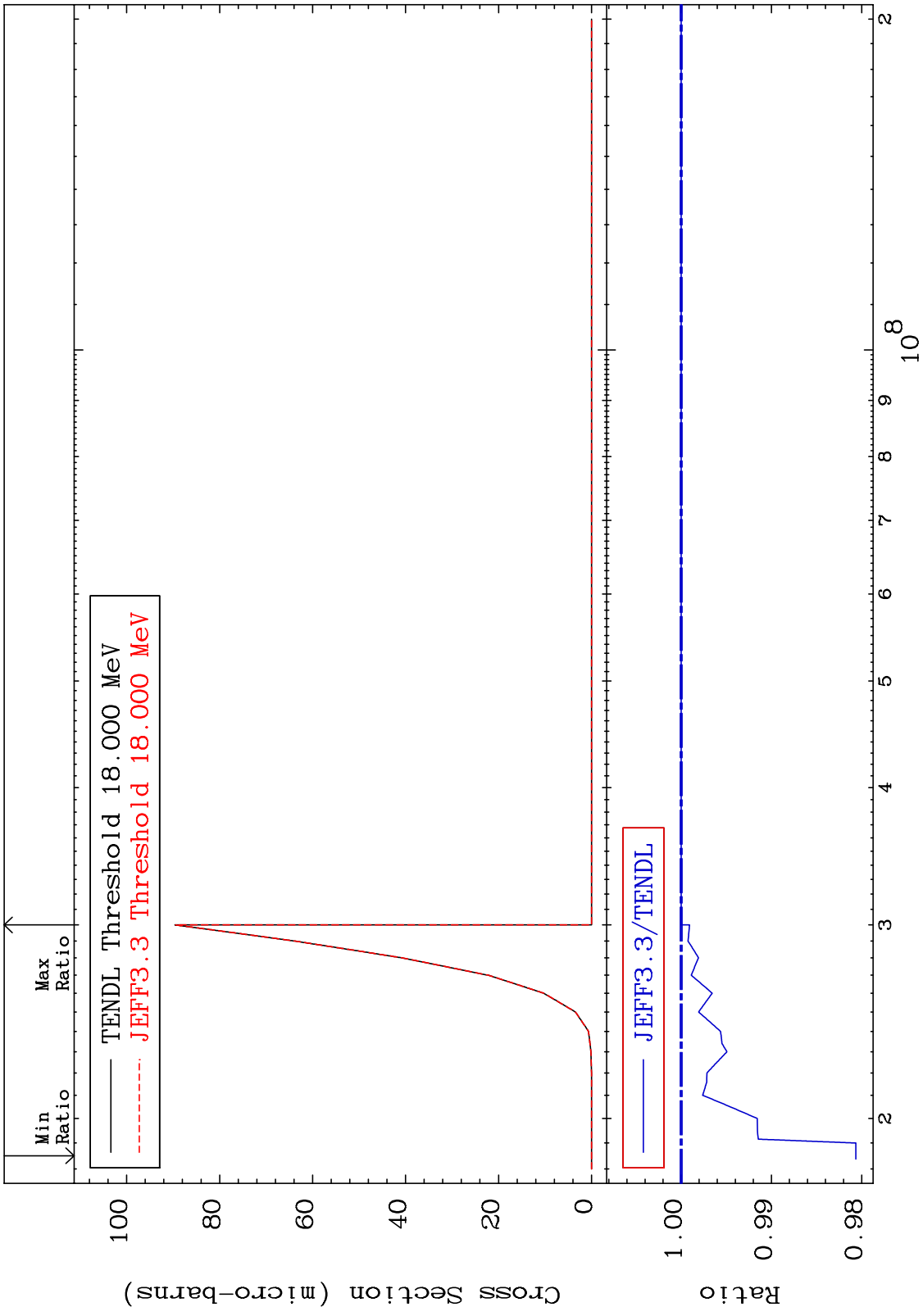


90

Incident Energy (eV)

78-Pt-194

MAT 7837 (n,n') t:77-Ir-191m10 78-Pt-194
 Radionuclide Production Cross Section -1.935 To 0.000 %

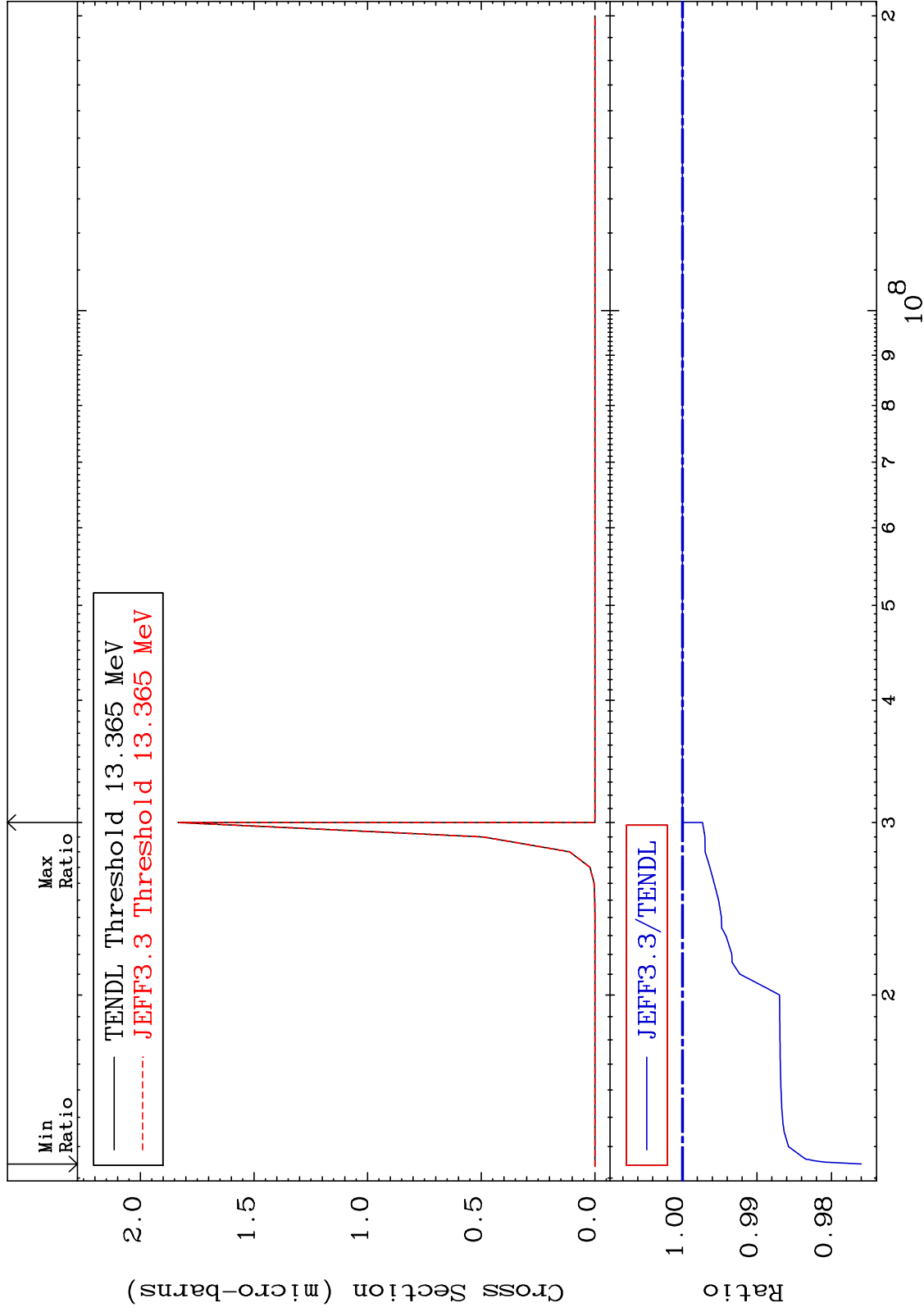


MAT 7837

(n,n') He-3:76-Os-191g

78-Pt-194

Radionuclide Production Cross Section -2.401 To 0.000 %

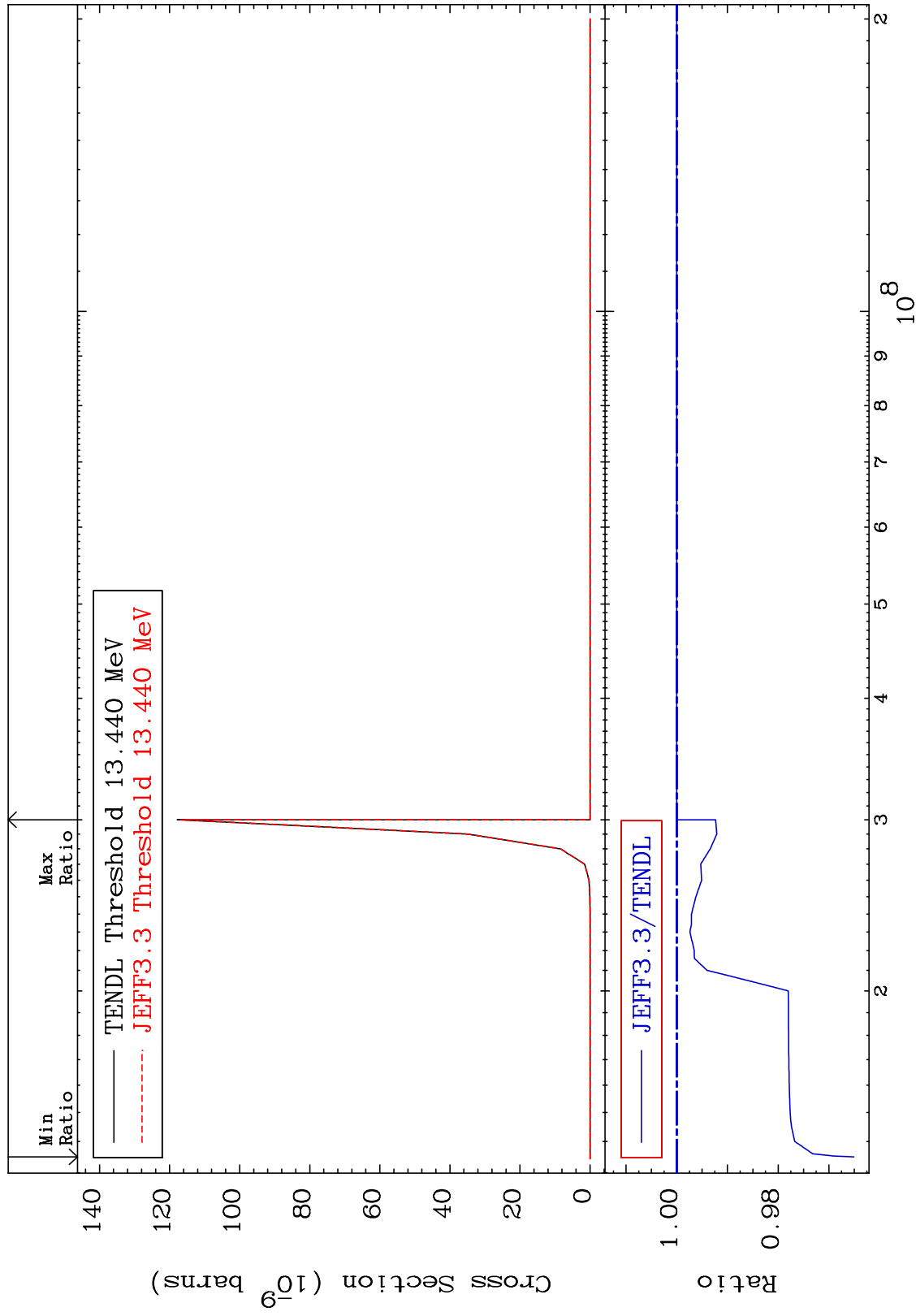


MAT 7837

(n,n') He-3:76-0s-191m1

78-Pt-194

Radionuclide Production Cross Section -3.493 To 0.000 %



93

Incident Energy (eV)

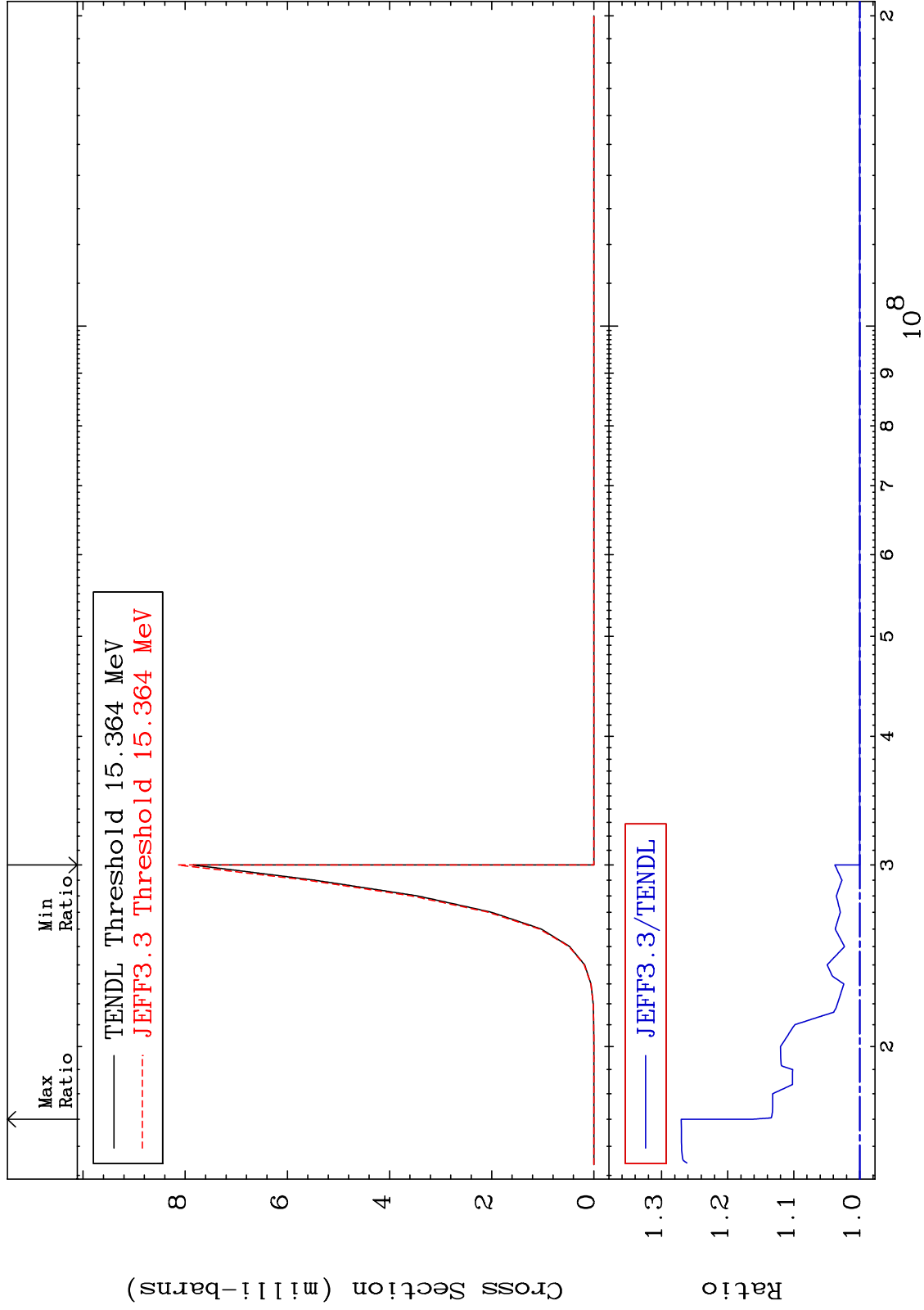
78-Pt-194

MAT 7837

(n,2n) p:77-Ir-192g

78-Pt-194

Radionuclide Production Cross Section 0.000 To 27.03 %

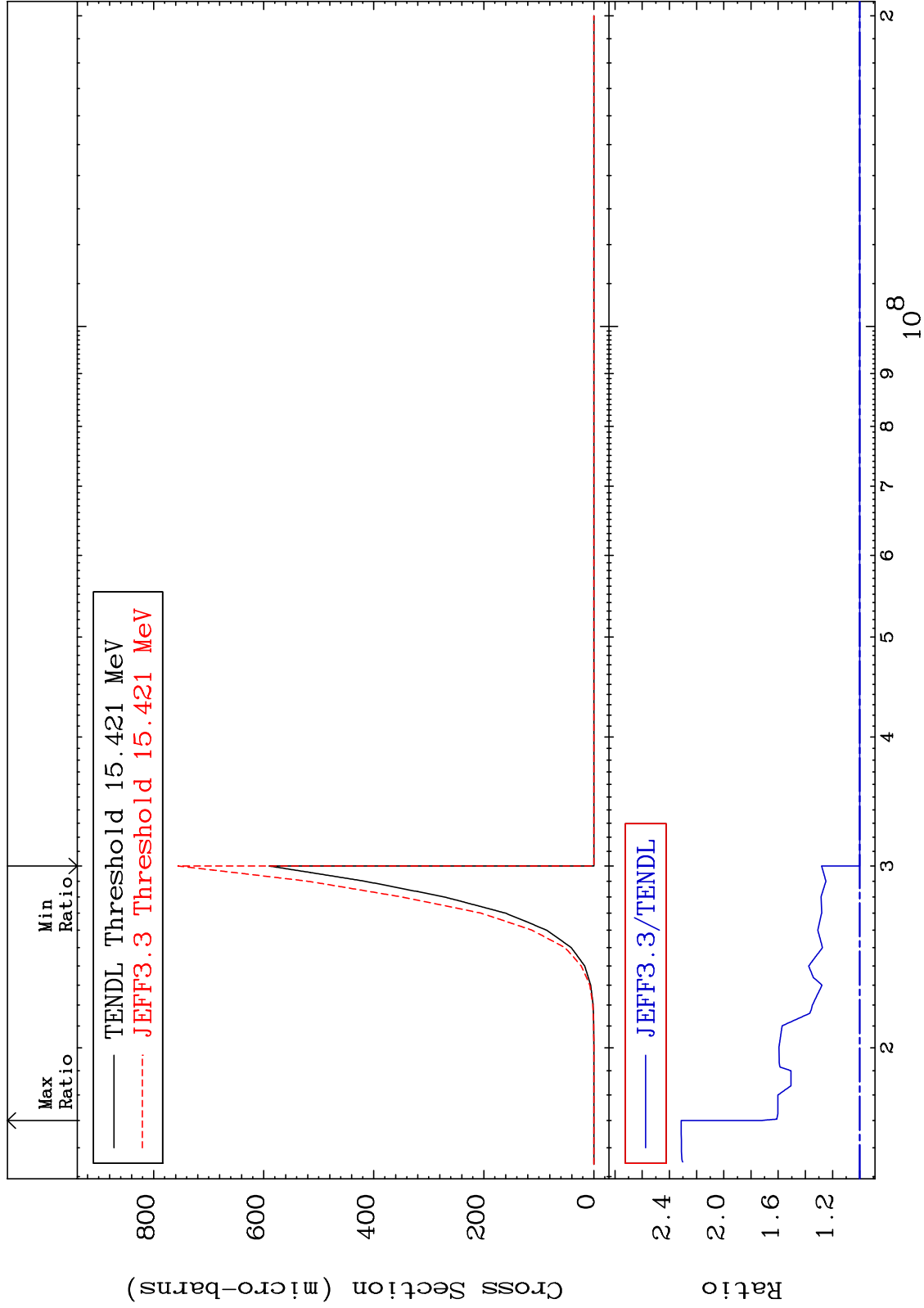


MAT 7837

(n,2n) p:77-Ir-192m3

78-Pt-194

Radionuclide Production Cross Section 0.000 To 131.3 %

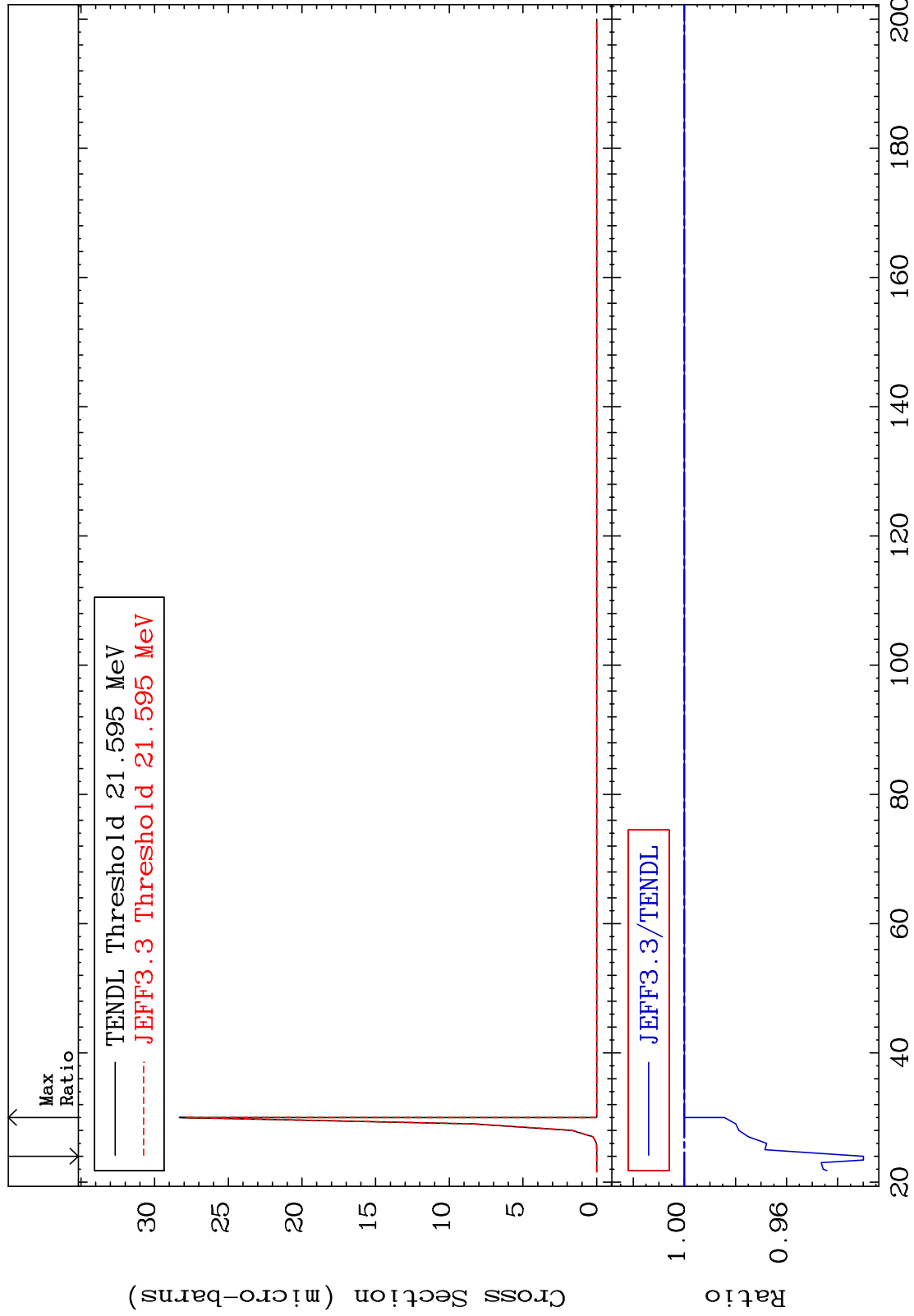


MAT 7837

(n,3n) p:77-Ir-191g

78-Pt-194

Radionuclide Production Cross Section -7.011 To 0.000 %



96

Incident Energy (MeV)

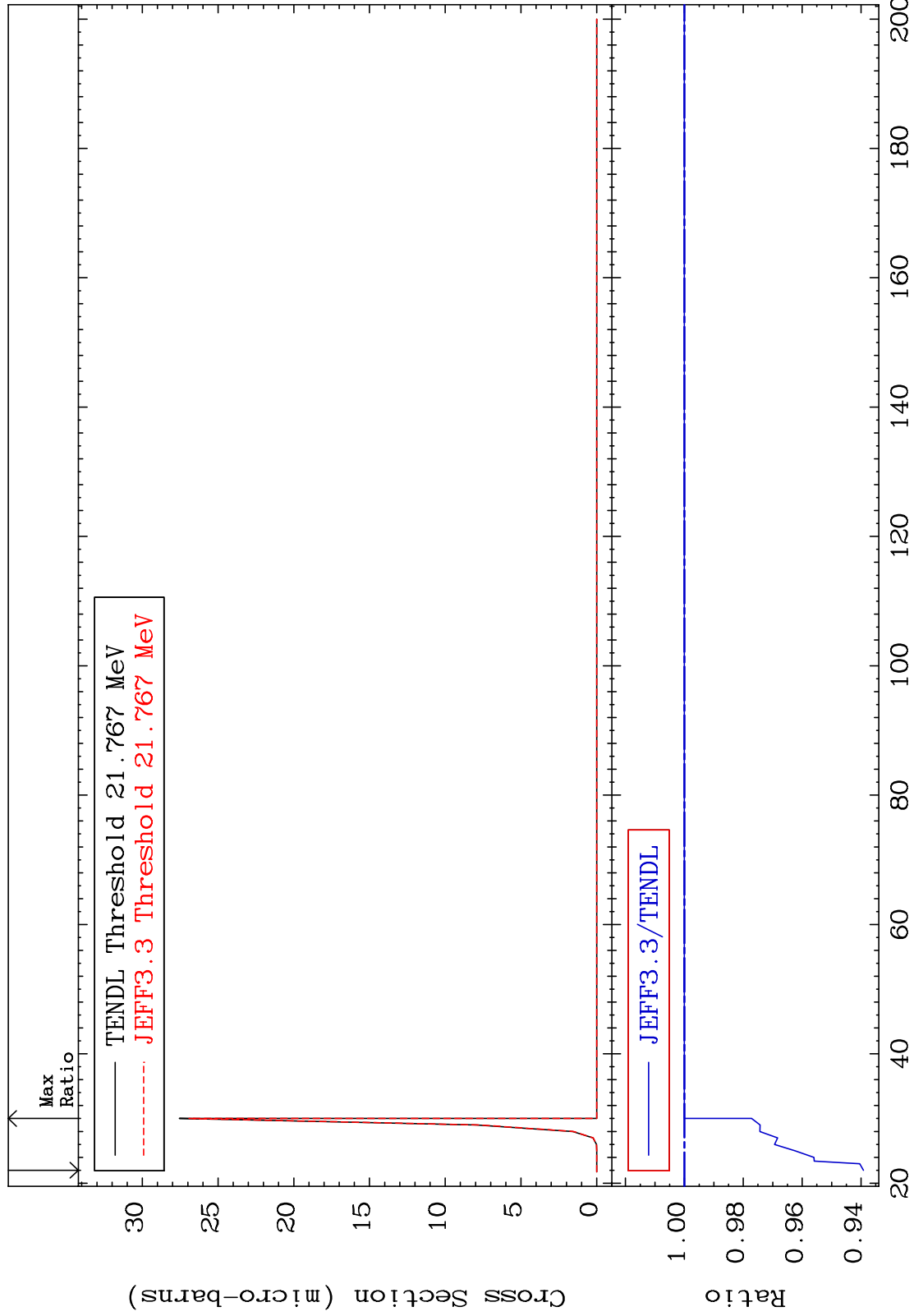
78-Pt-194

MAT 7837

(n,3n) p:77-Ir-191m3

78-Pt-194

Radionuclide Production Cross Section -6.083 To 0.000 %



97

Incident Energy (MeV)

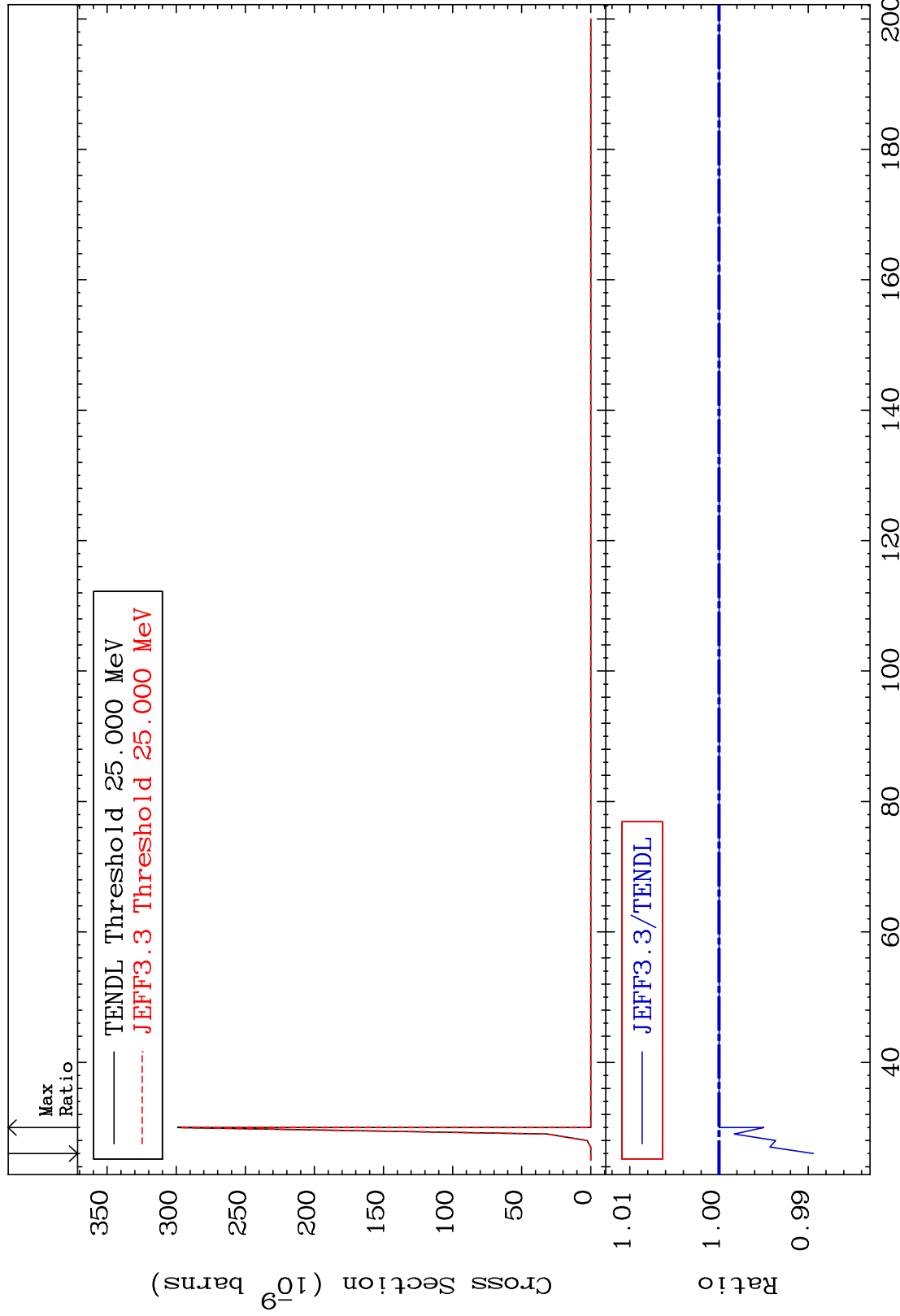
78-Pt-194

MAT 7837

(n,3n) p:77-Ir-191m10

78-Pt-194

Radionuclide Production Cross Section -1.059 To 0.000 %

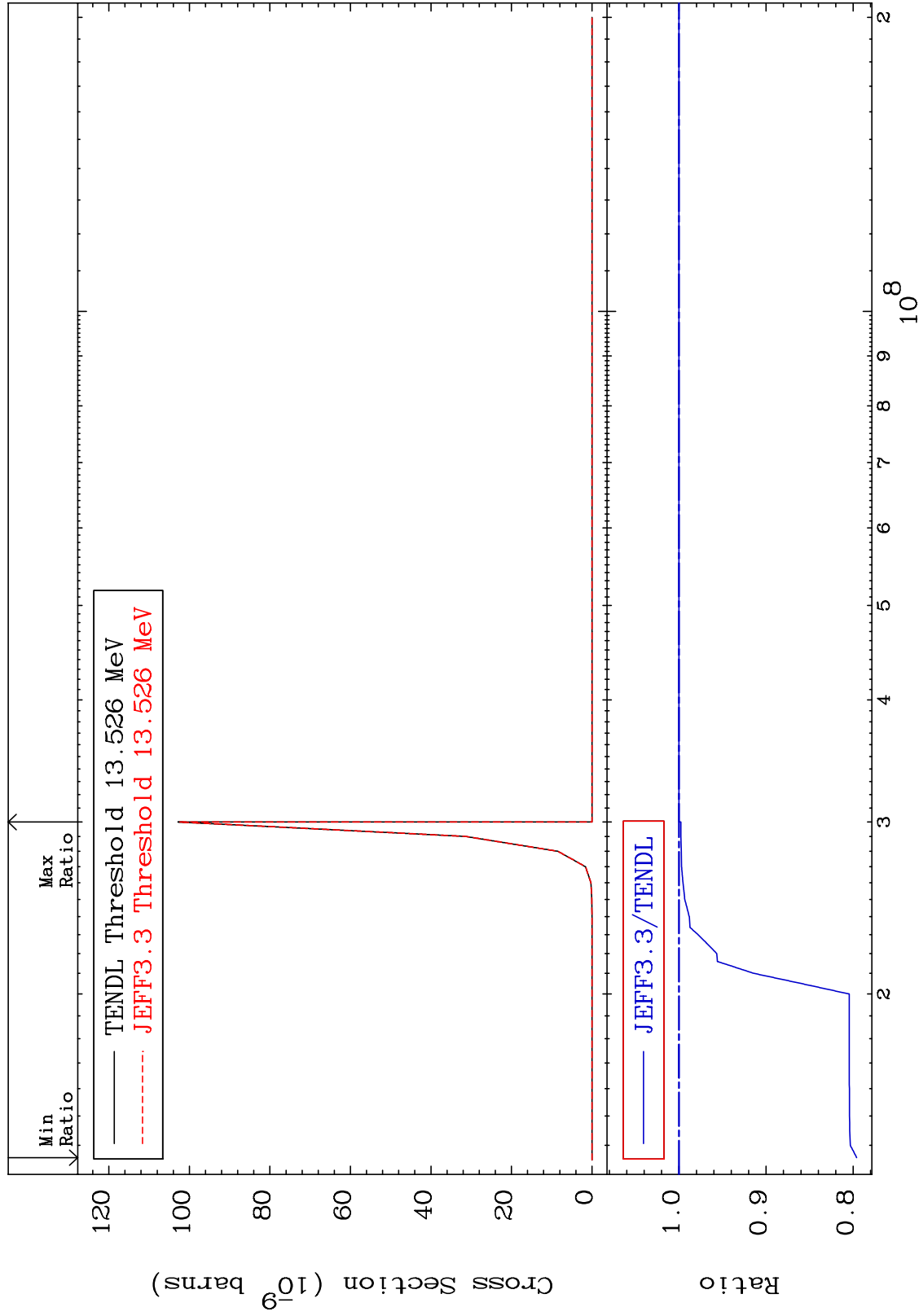


MAT 7837

(n,2n) p:76-Os-192g

78-Pt-194

Radionuclide Production Cross Section -20.40 To 0.000 %

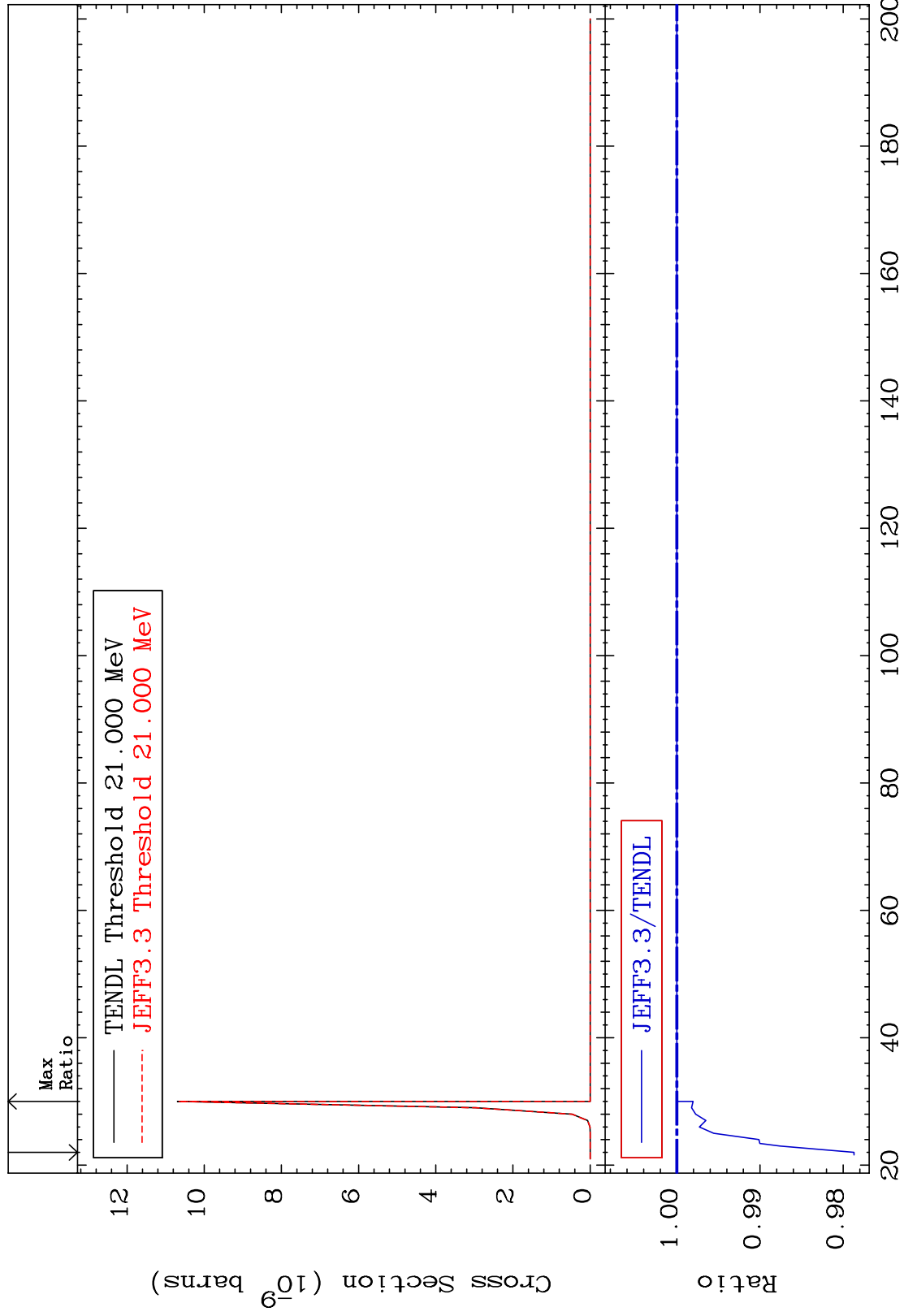


MAT 7837

(n,2n) p:76-0s-192m5

78-Pt-194

Radionuclide Production Cross Section -2.131 To 0.000 %

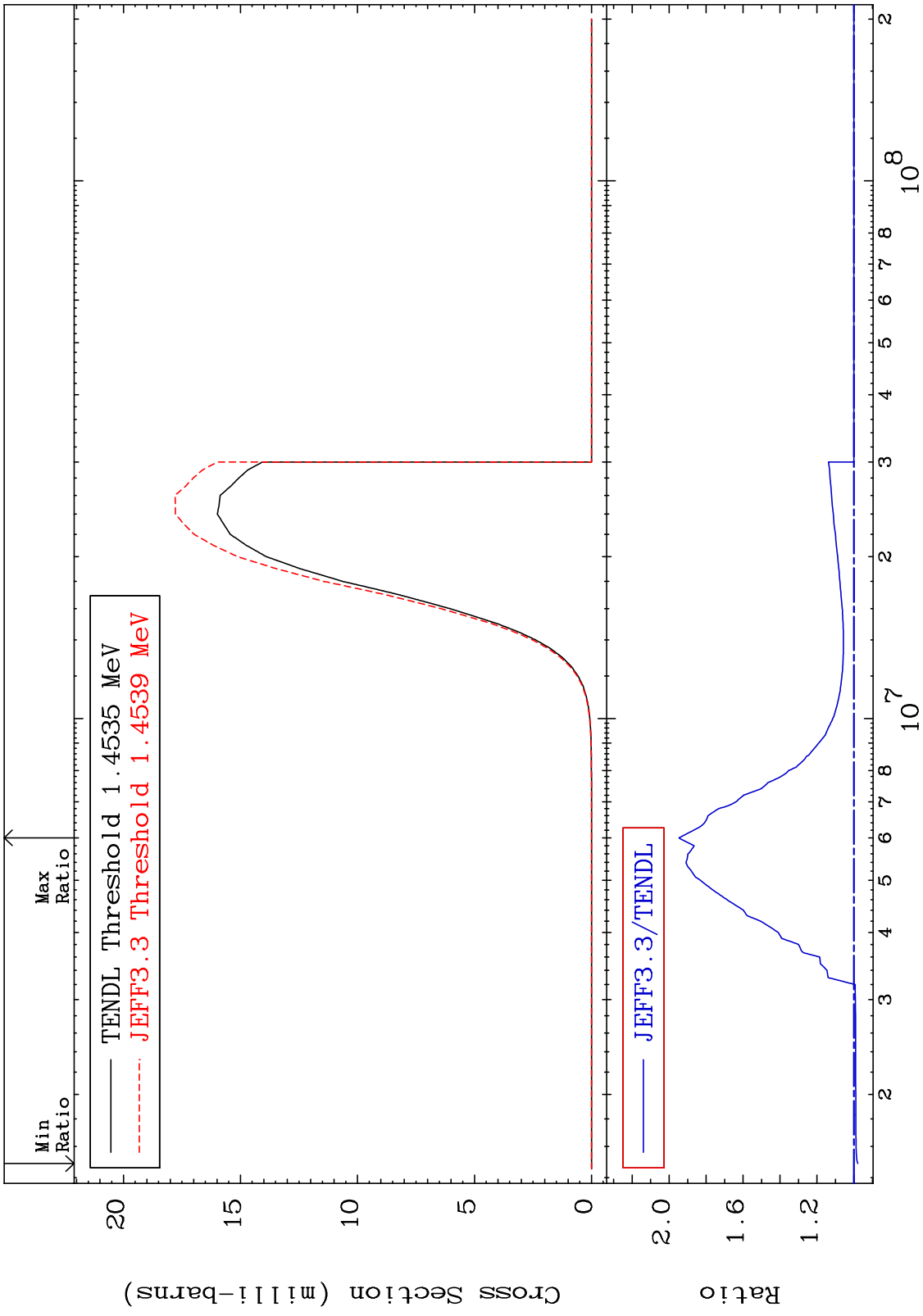


100

Incident Energy (MeV)

78-Pt-194

MAT 7837 (n,p):77-Ir-194g 78-Pt-194
 Radionuclide Production Cross Section -2.111 To 94.64 %

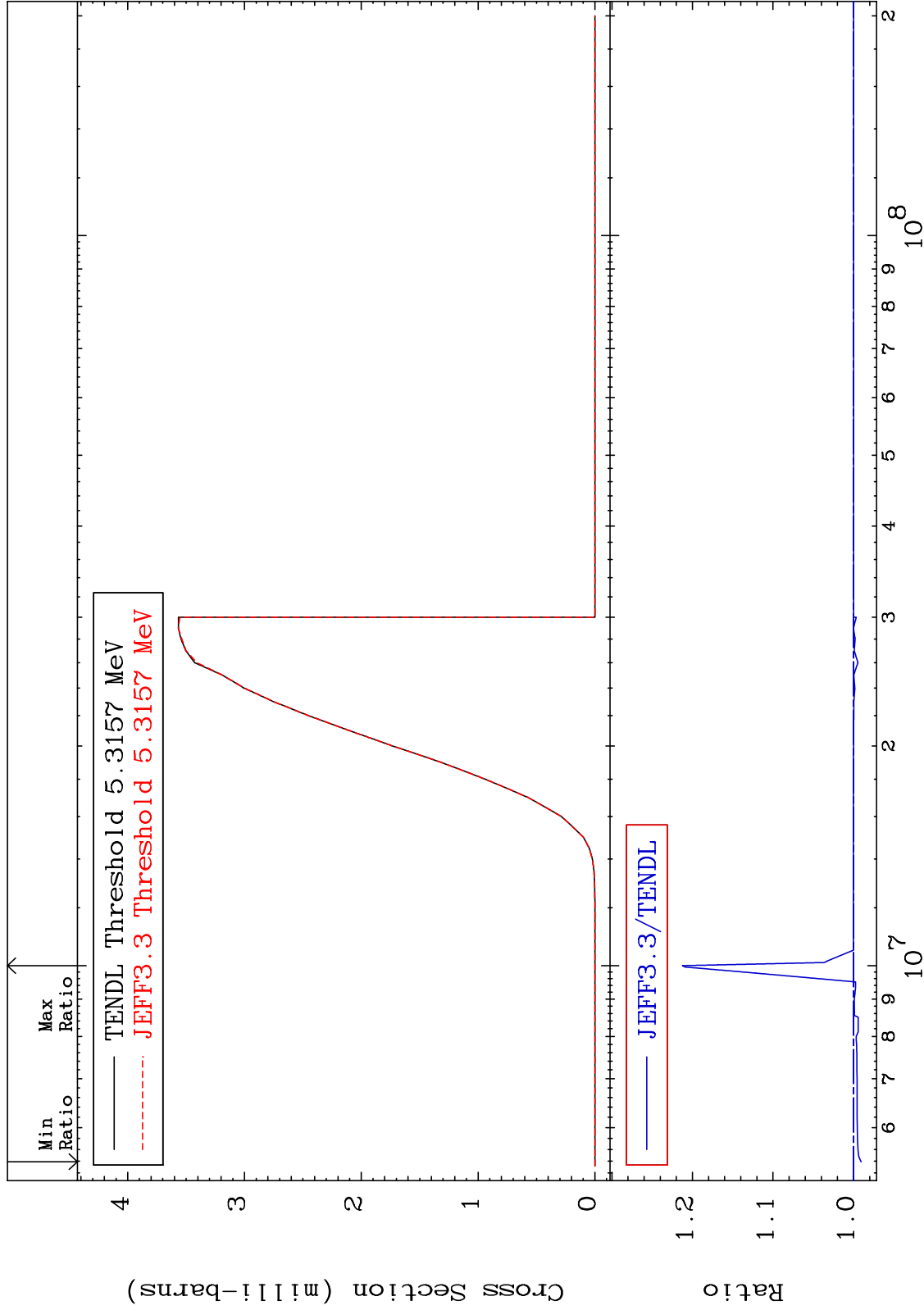


MAT 7837

(n,d):77-Ir-193g

78-Pt-194

Radionuclide Production Cross Section -0.958 To 21.24 %



102

Incident Energy (eV)

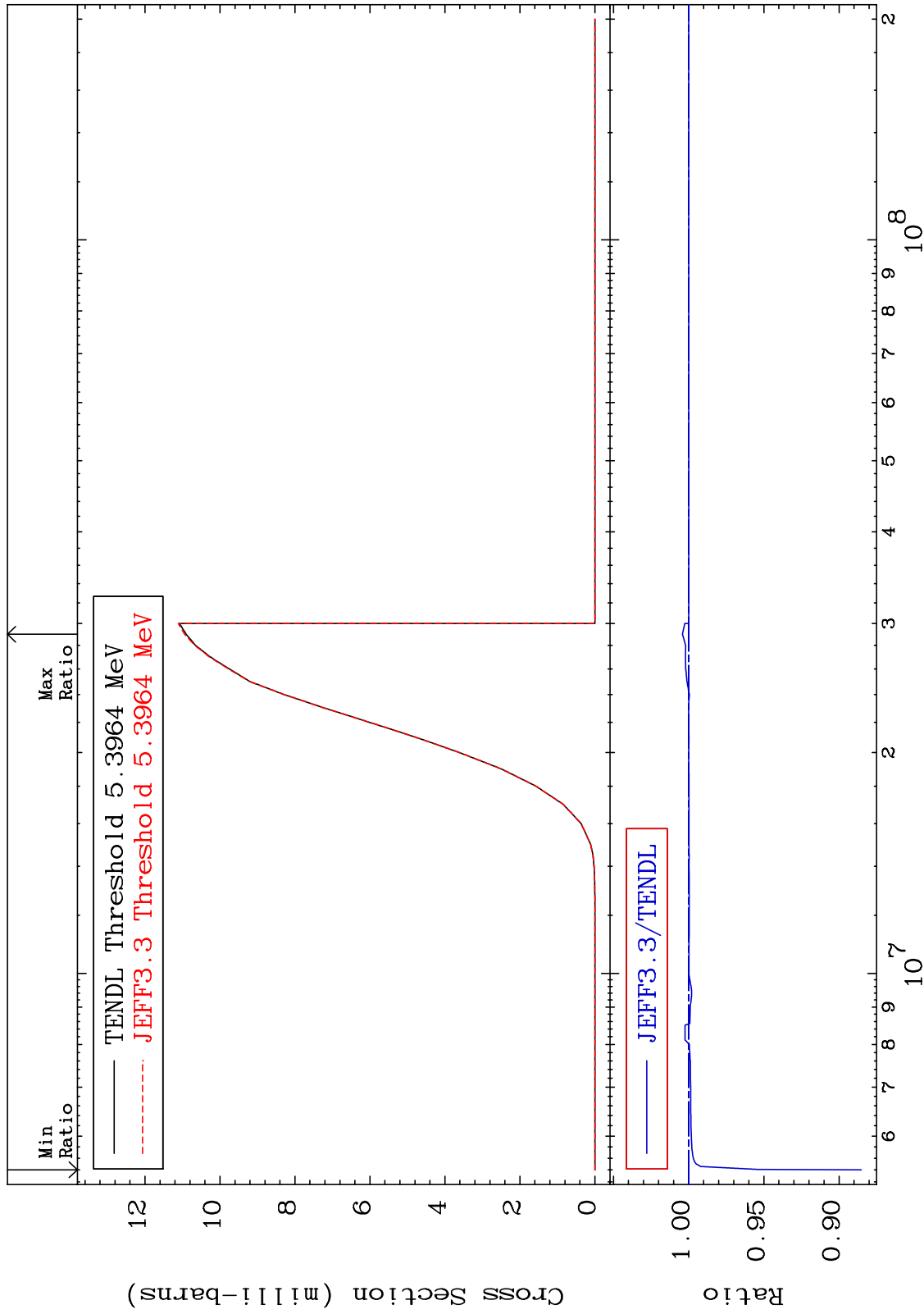
78-Pt-194

MAT 7837

(n, d) : 77-Ir-193m2

78-Pt-194

Radionuclide Production Cross Section -11.48 To 0.412 %

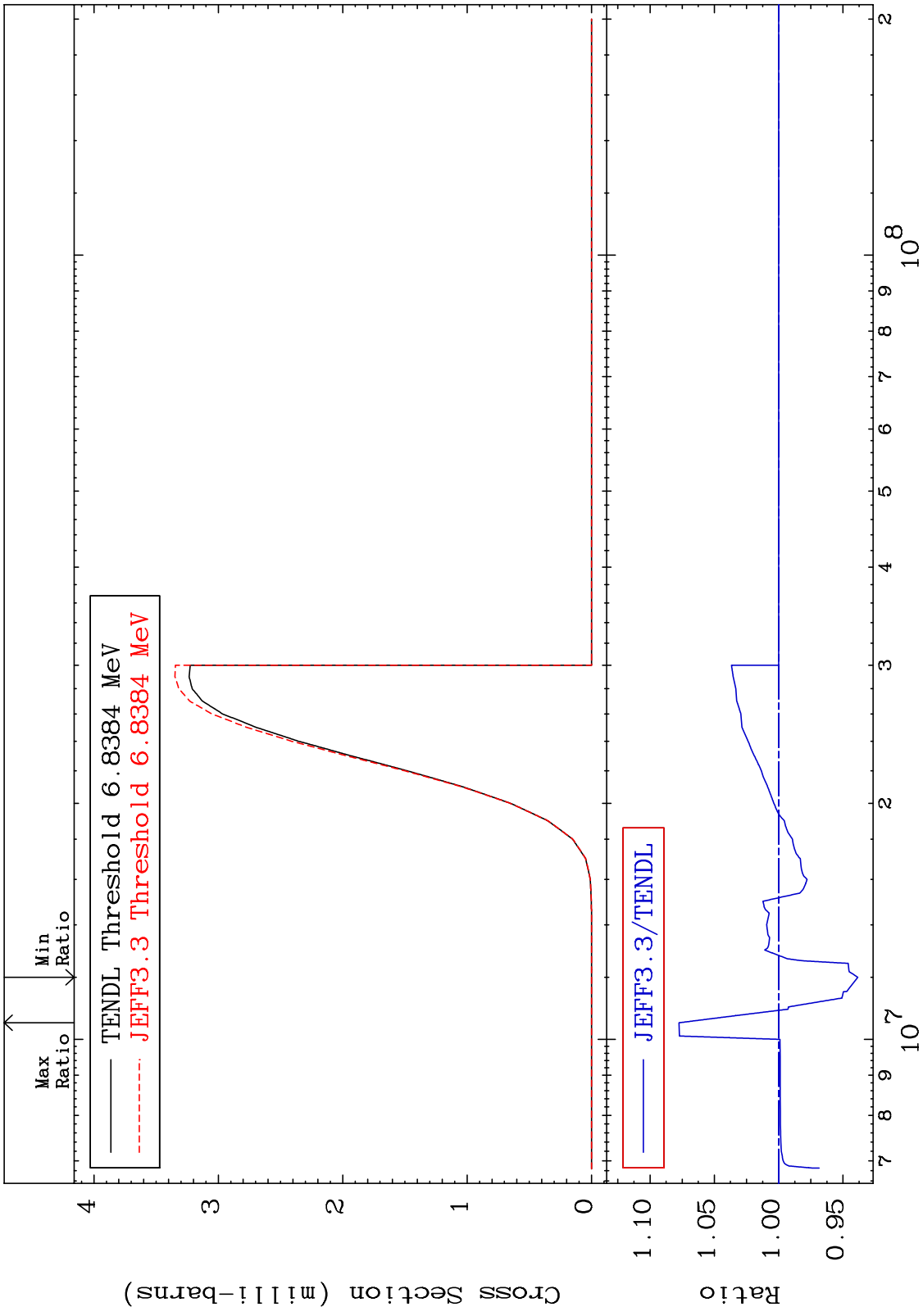


103

Incident Energy (eV)

78-Pt-194

MAT 7837 (n,t):77-Ir-192g 78-Pt-194
 Radionuclide Production Cross Section -6.151 To 7.745 %

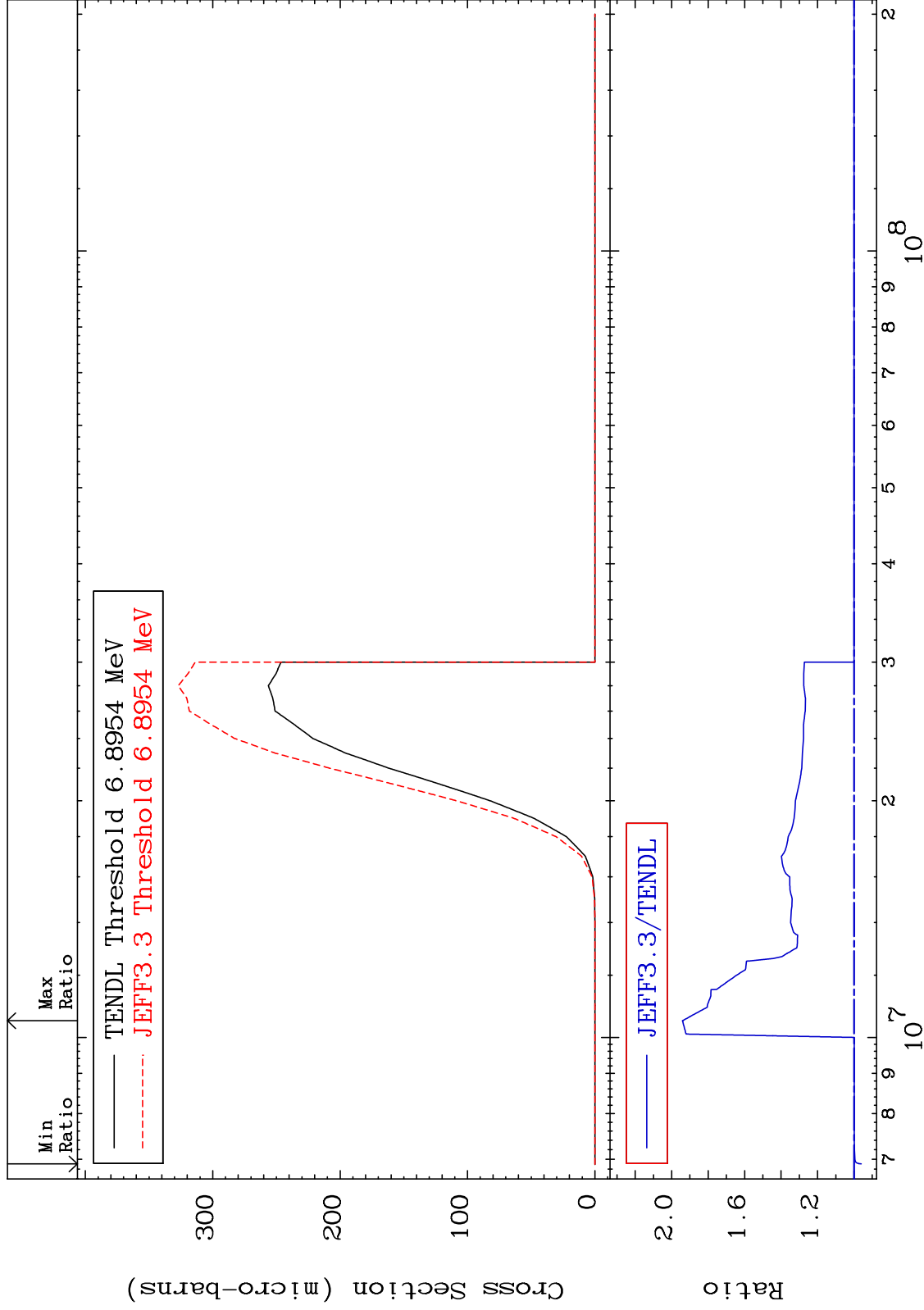


MAT 7837

(n, t) : 77-Ir-192m3

78-Pt-194

Radionuclide Production Cross Section -3.971 To 94.10 %



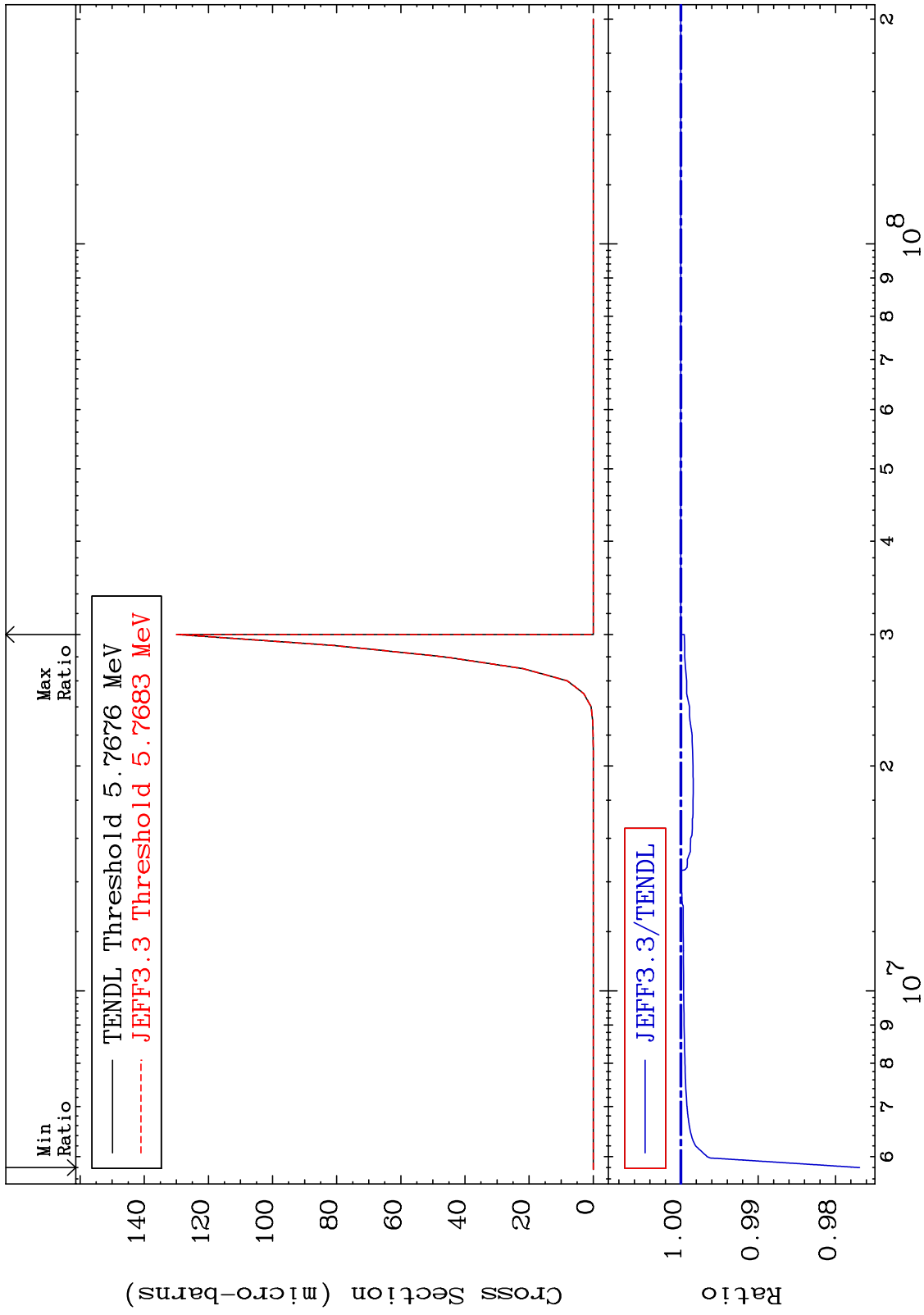
105

Incident Energy (eV)

78-Pt-194

MAT 7837

(n, He-3) : 76-Os-192g 78-Pt-194
Radionuclide Production Cross Section -2.313 To 0.000 %



106

Incident Energy (eV)

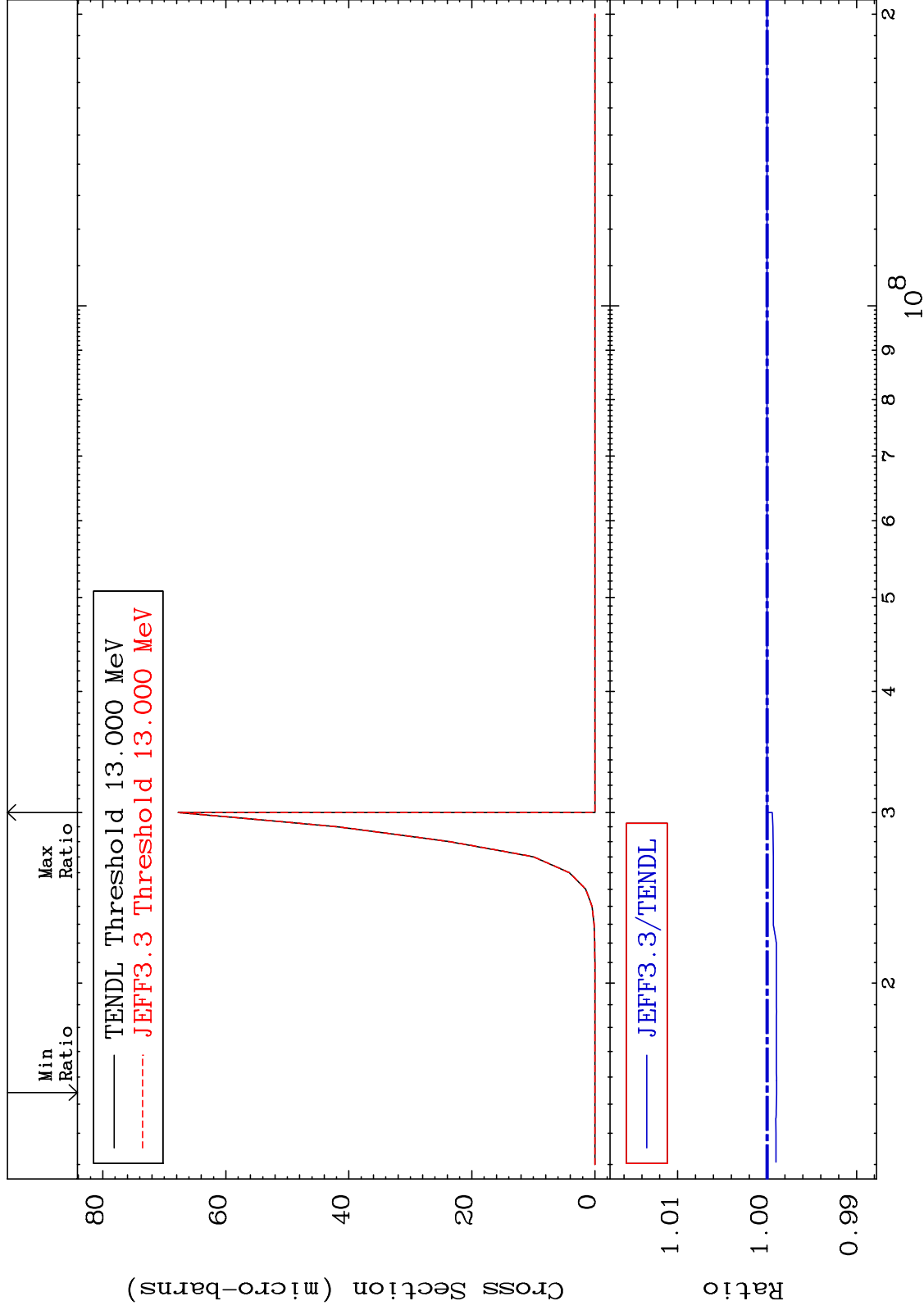
78-Pt-194

MAT 7837

(n,He-3):76-0s-192m5

78-Pt-194

Radionuclide Production Cross Section -0.106 To 0.000 %

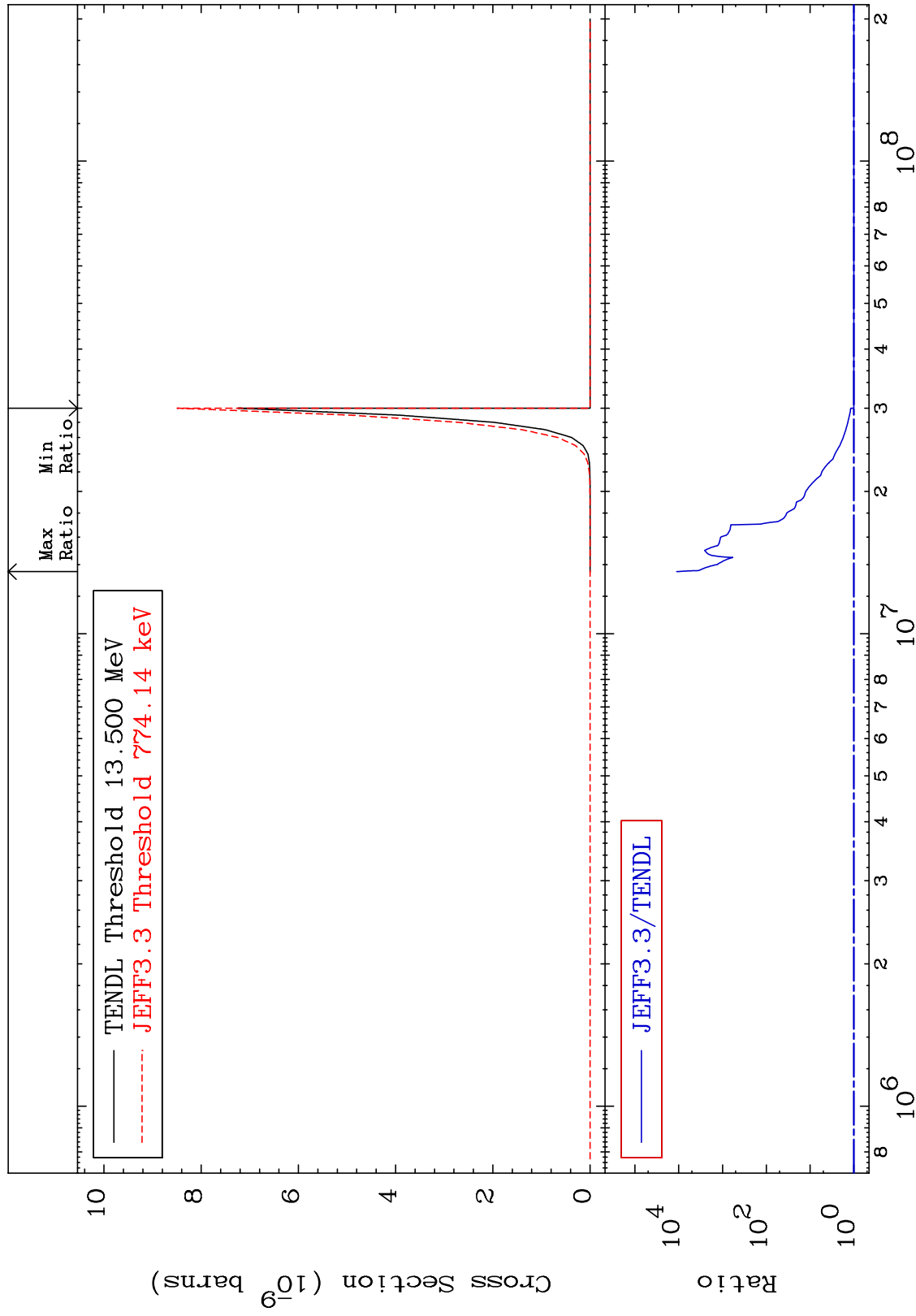


MAT 7837

(n,p) α : 75-Re-190g

78-Pt-194

Radionuclide Production Cross Section 0.000 To 9999. %

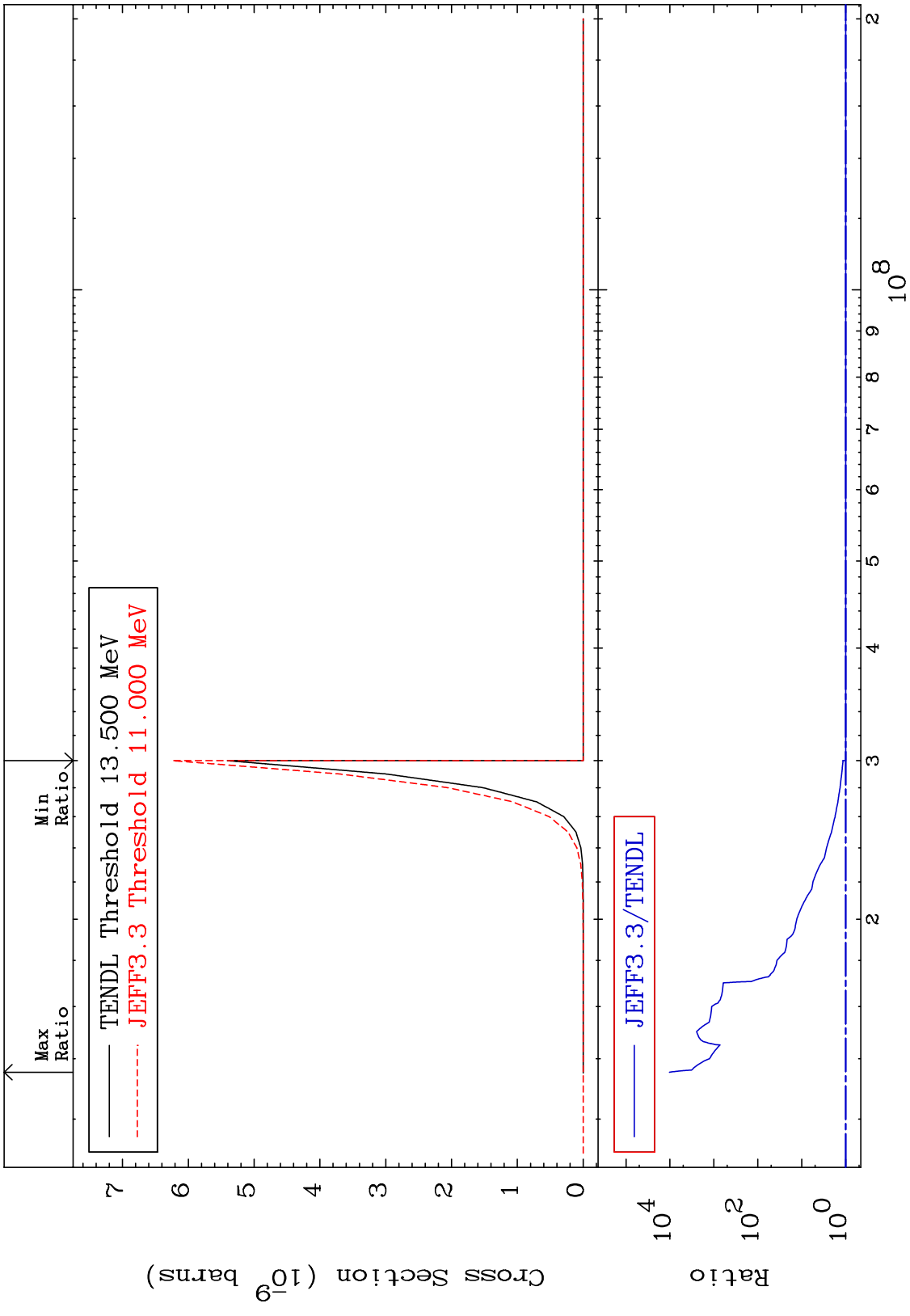


108

Incident Energy (eV)

78-Pt-194

MAT 7837 (n,p) α :75-Re-190m3 78-Pt-194
 Radionuclide Production Cross Section 0.000 To 9999. %

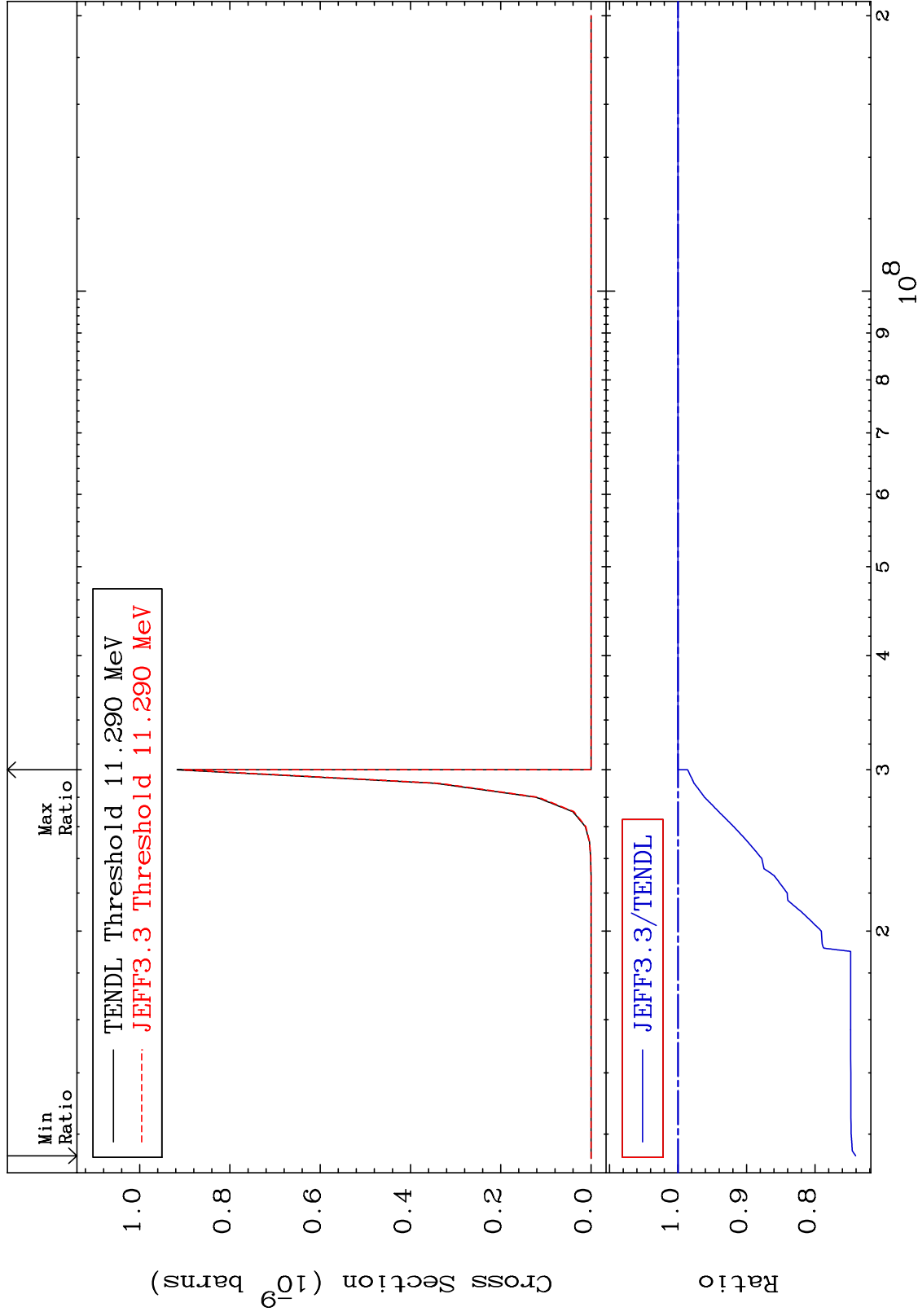


MAT 7837

(n,p) d:76-0s-192g

78-Pt-194

Radionuclide Production Cross Section -25.93 To 0.000 %



110

Incident Energy (eV)

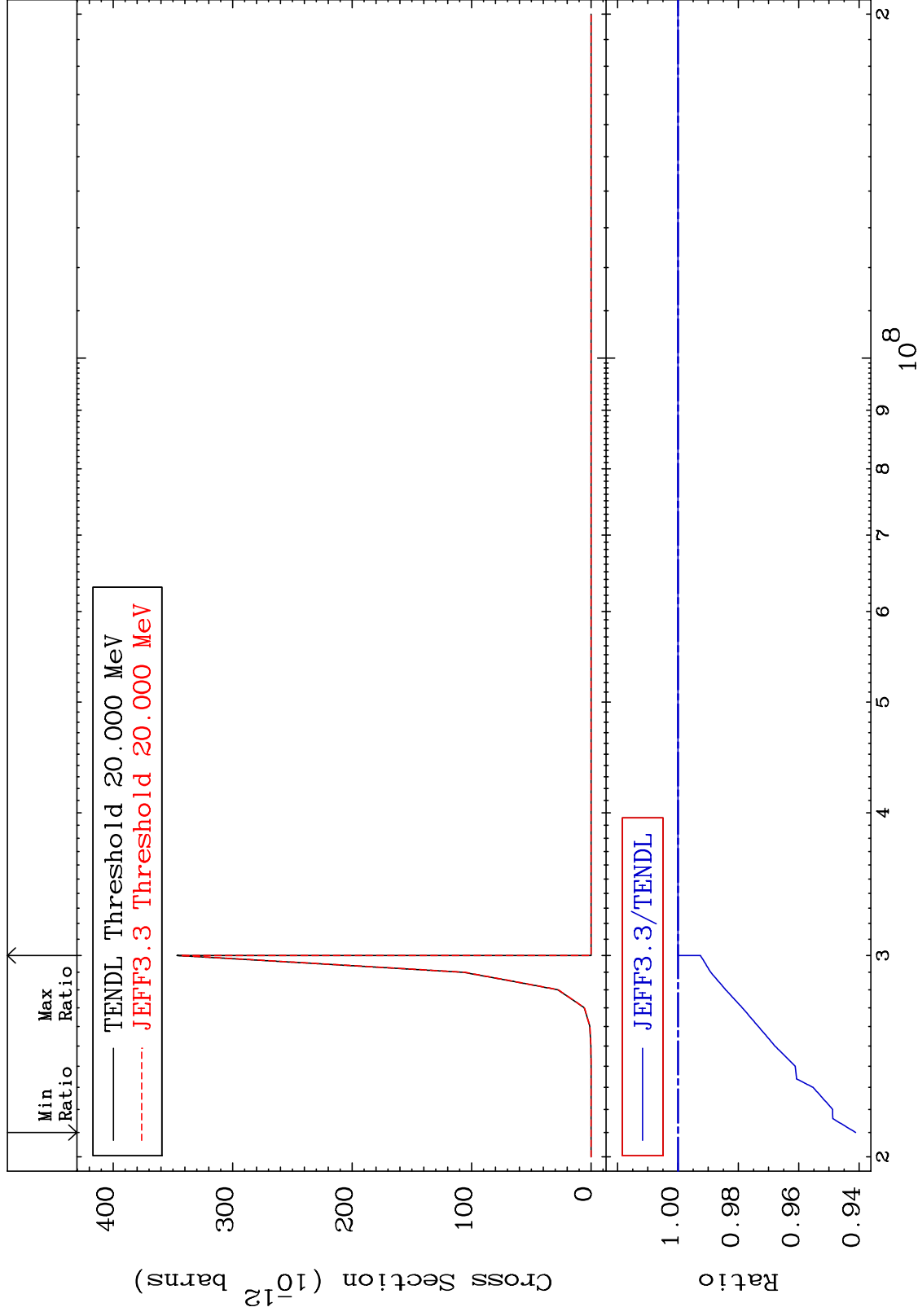
78-Pt-194

MAT 7837

(n,p) d:76-0s-192m5

78-Pt-194

Radionuclide Production Cross Section -5.886 To 0.000 %

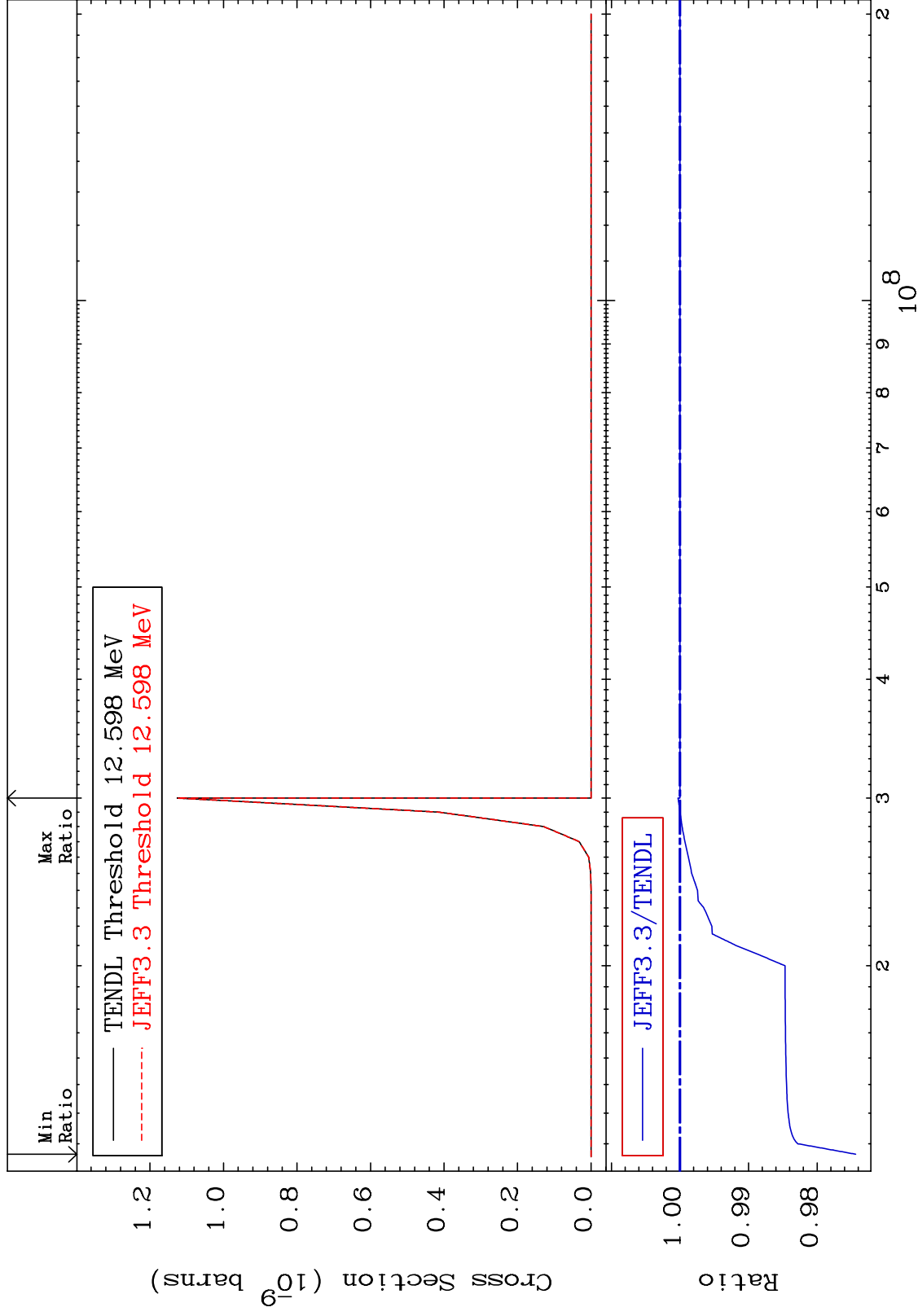


MAT 7837

(n,p) t:76-0s-191g

78-Pt-194

Radionuclide Production Cross Section -2.563 To 0.028 %



112

Incident Energy (eV)

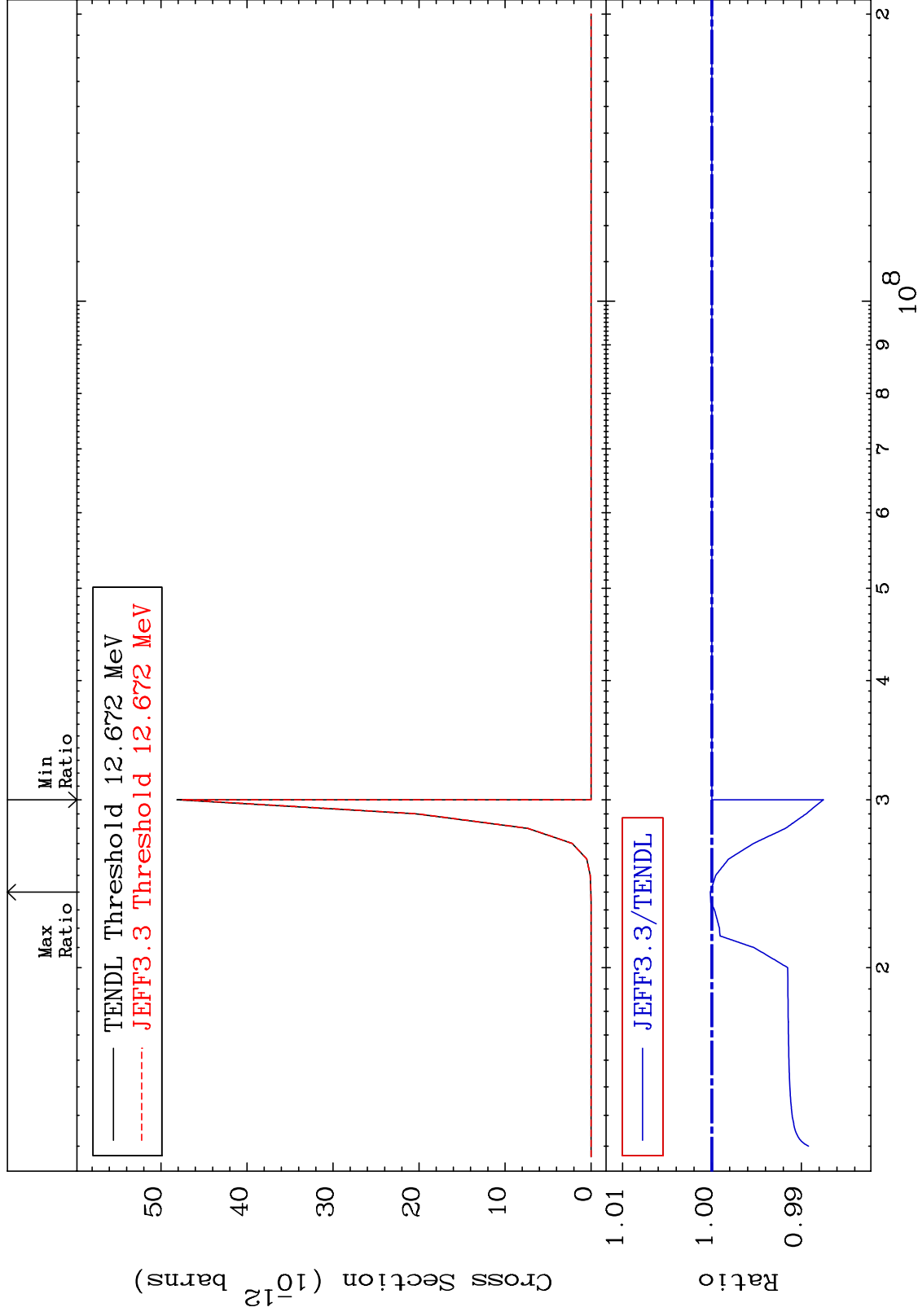
78-Pt-194

MAT 7837

(n,p) t:76-0s-191m1

78-Pt-194

Radionuclide Production Cross Section -1.248 To 0.017 %



MAT 7837

(n,p) t:76-0s-191m1

78-Pt-194

Radionuclide Production Cross Section -1.248 To 0.017 %

