

Program Complot
(Version 2018-1)

by

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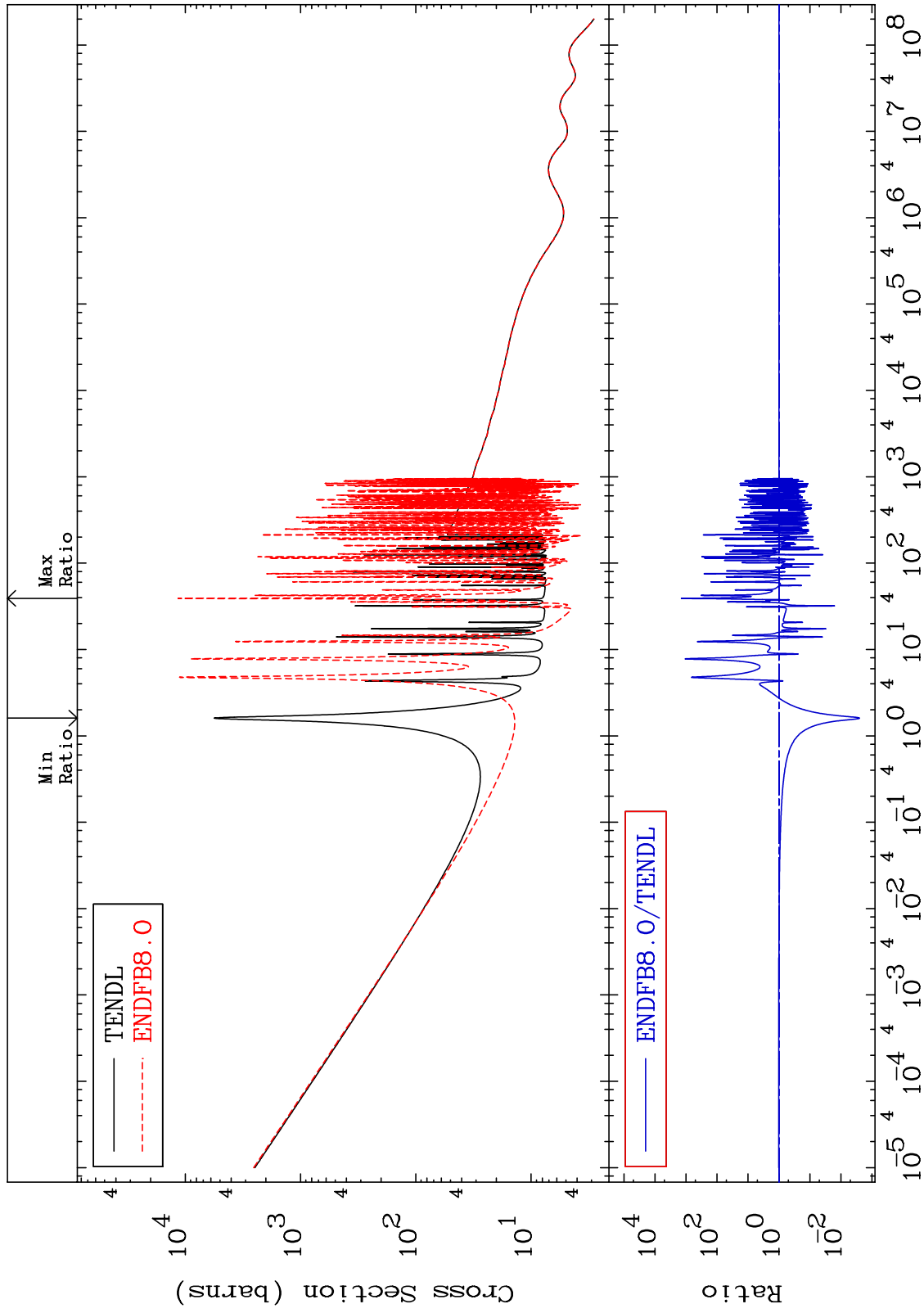
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7834

Total
Cross Section

78-Pt-193
-99.75 To 9999. %



Incident Energy (eV)

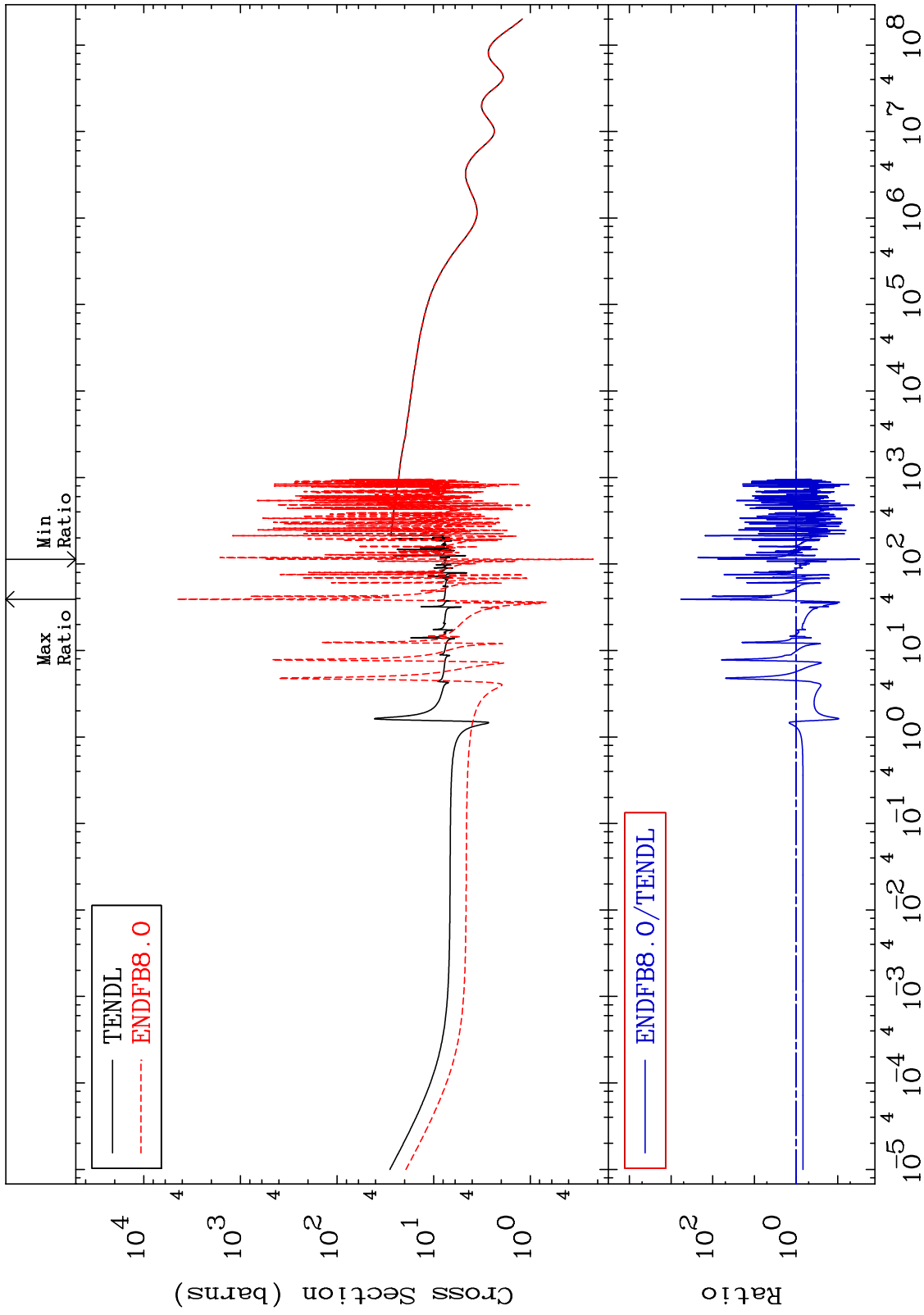
78-Pt-193

1

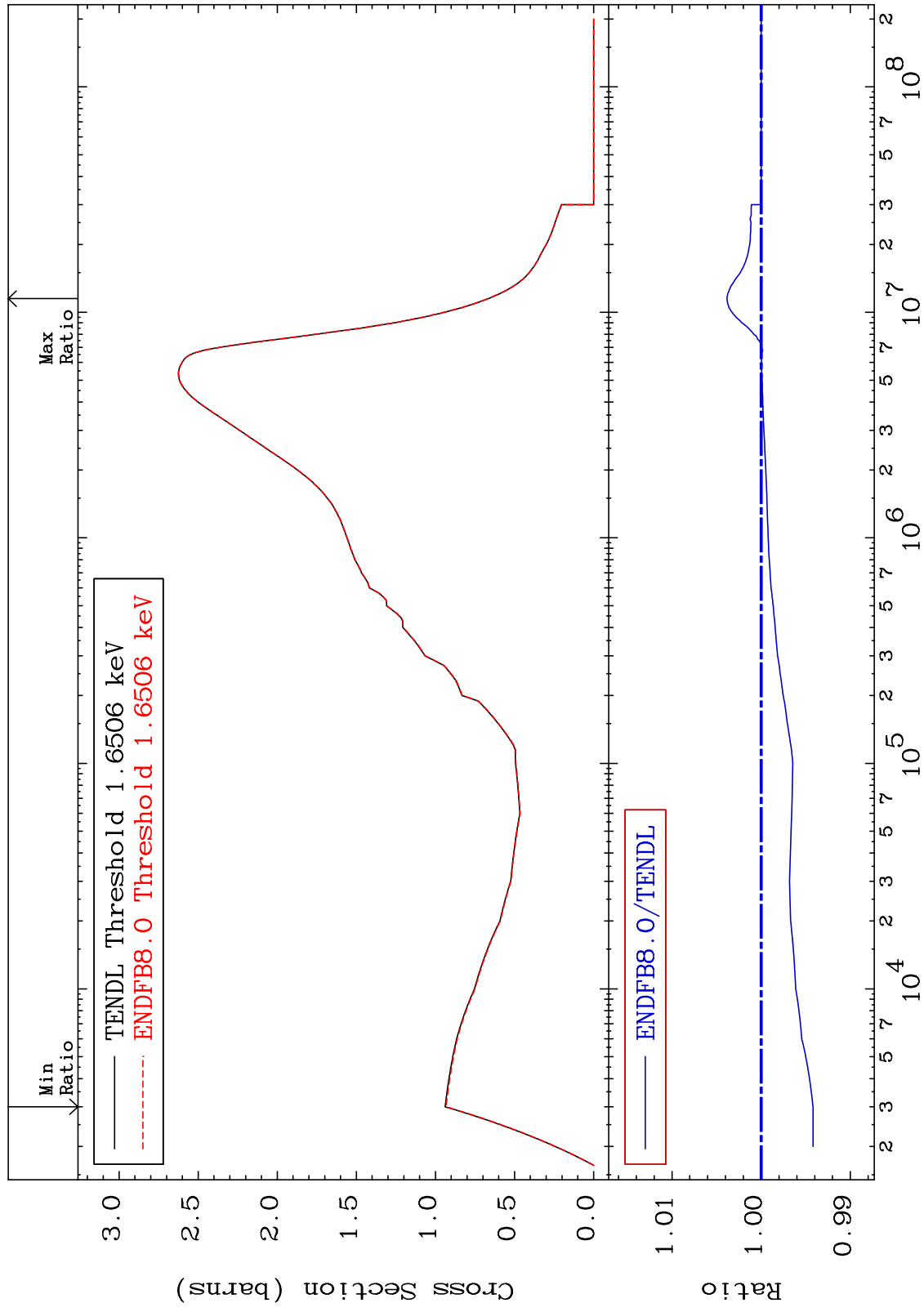
MAT 7834

Elastic
Cross Section

78-Pt-193
-97.03 To 9999. %

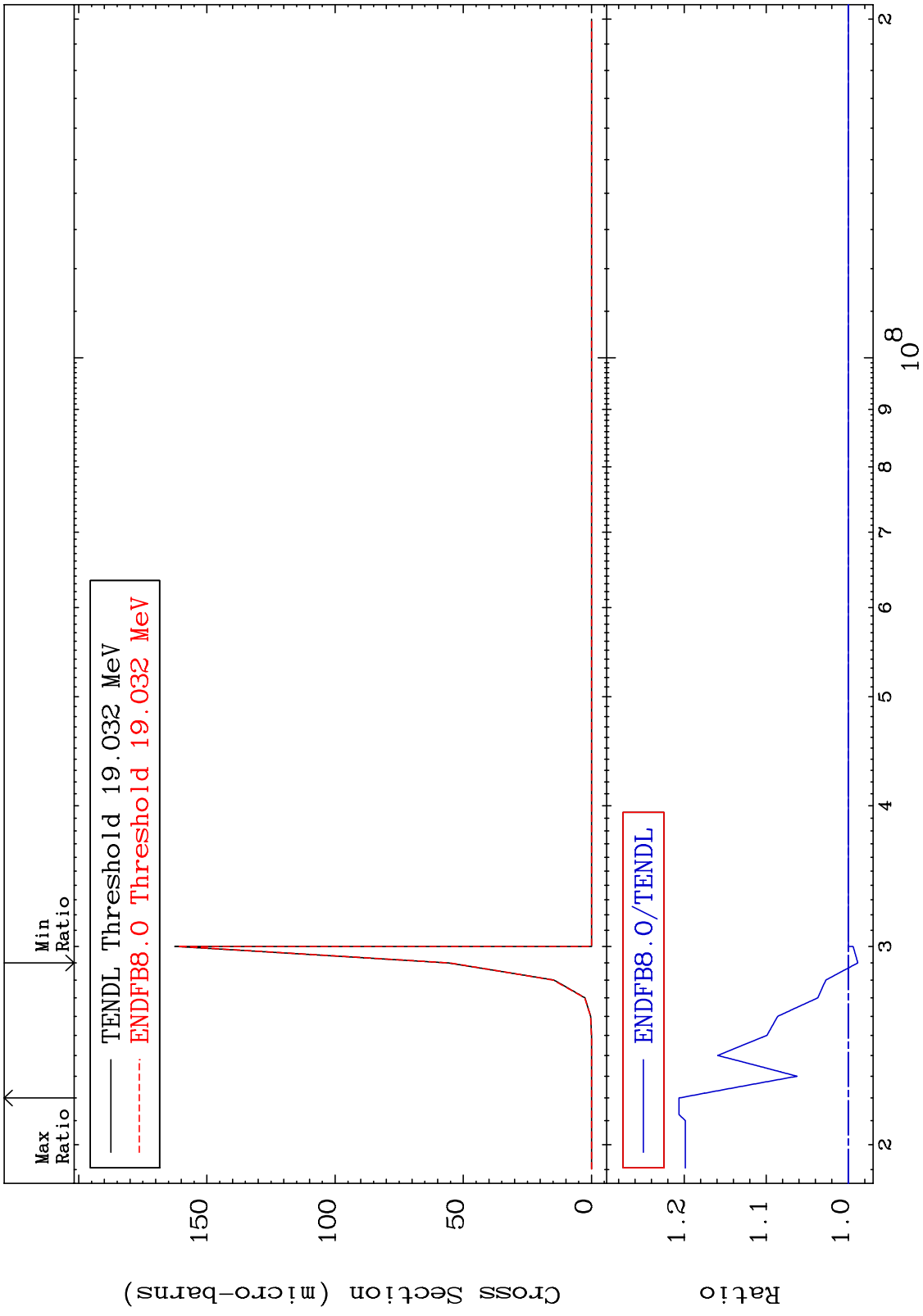


MAT 7834 Inelastic Cross Section 78-Pt-193 -0.582 To 0.385 %

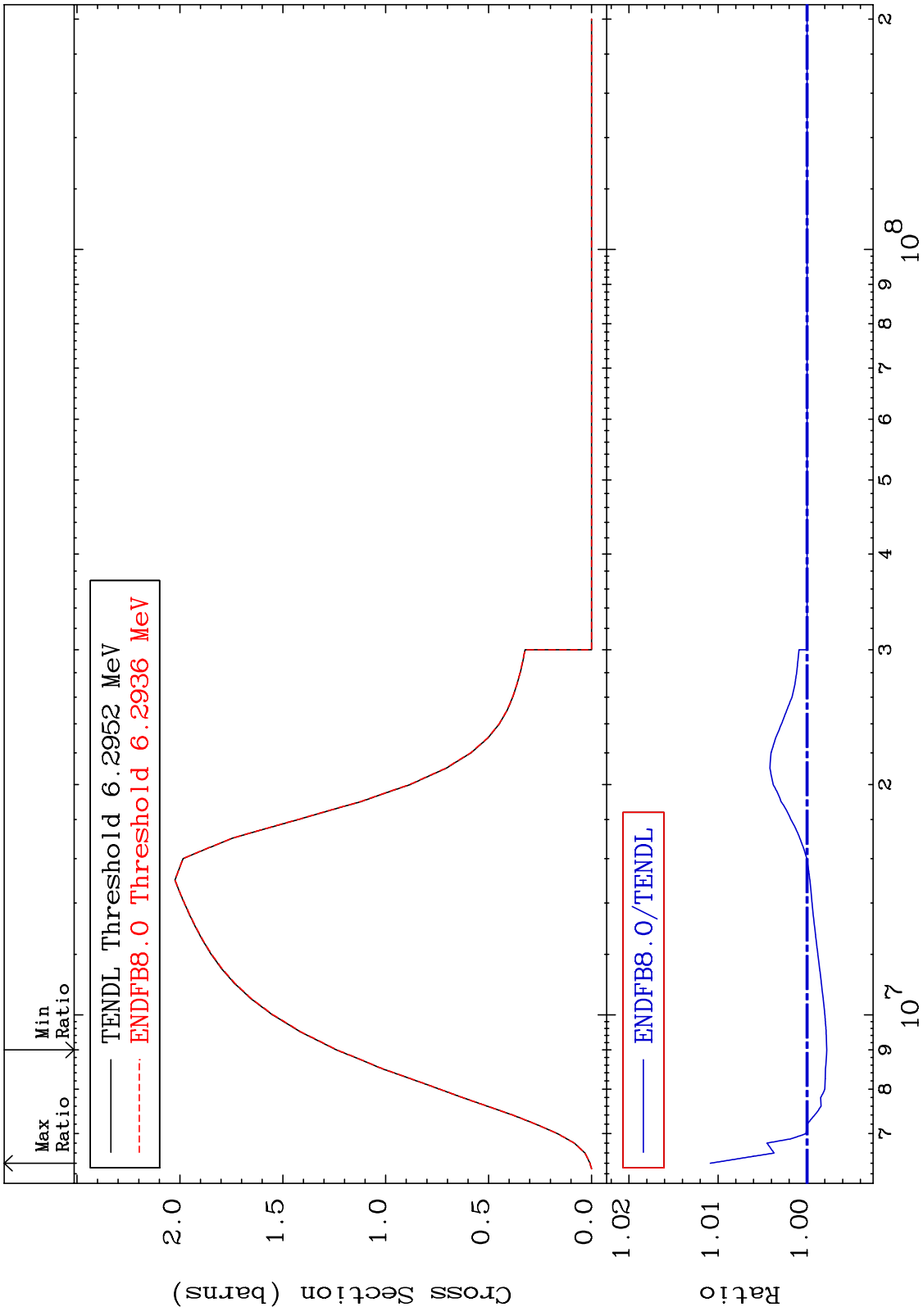


3 78-Pt-193

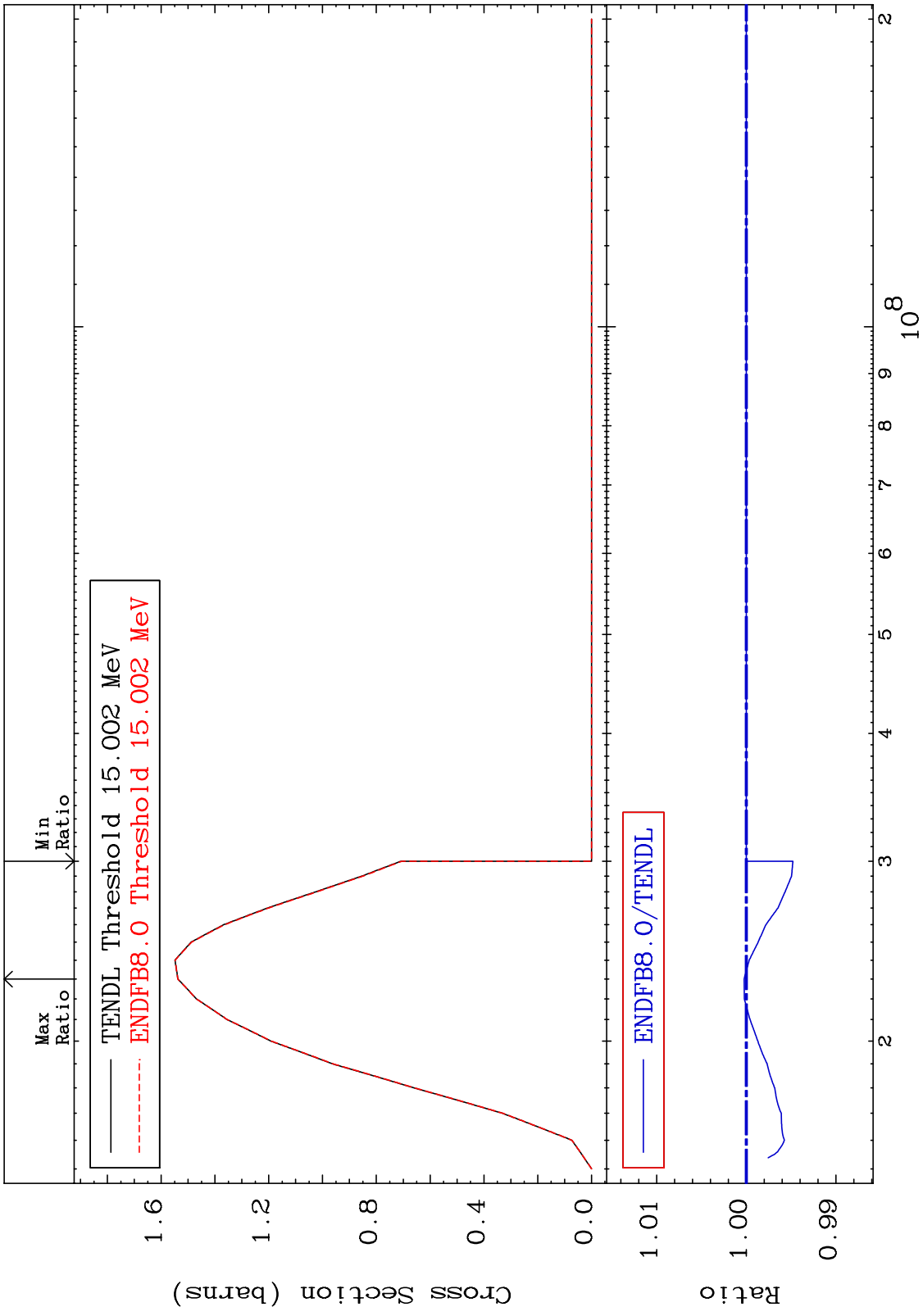
MAT 7834 (n,2n) d 78-Pt-193
 Cross Section -1.164 To 20.63 %



MAT 7834 (n,2n) Cross Section 78-Pt-193
 -0.221 To 1.088 %



MAT 7834 (n,3n) Cross Section 78-Pt-193
 -0.520 To 0.025 %



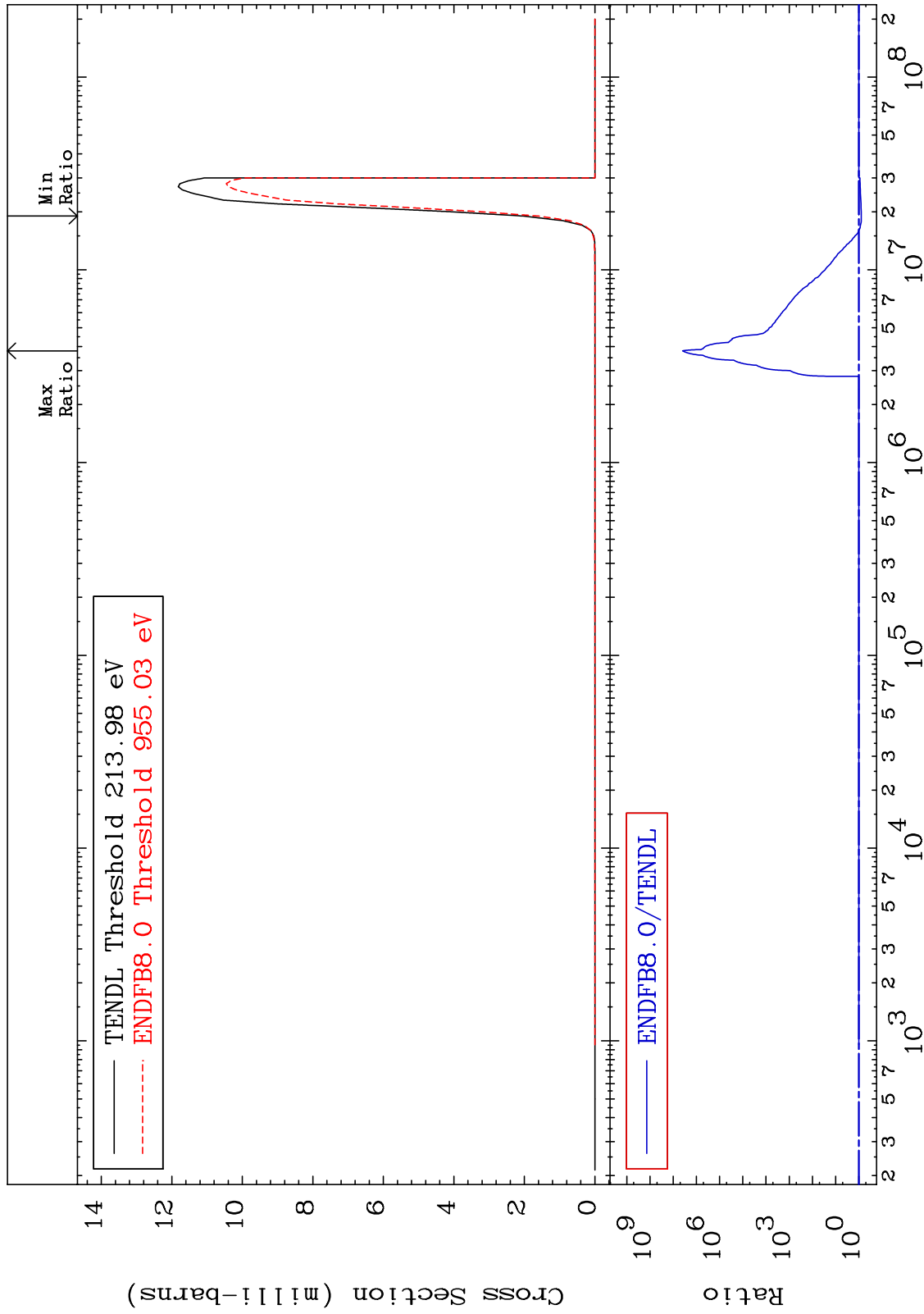
MAT 7834

(n, n') α

78-Pt-193

Cross Section

-21.44 To 9999. %



7

Incident Energy (eV)

78-Pt-193

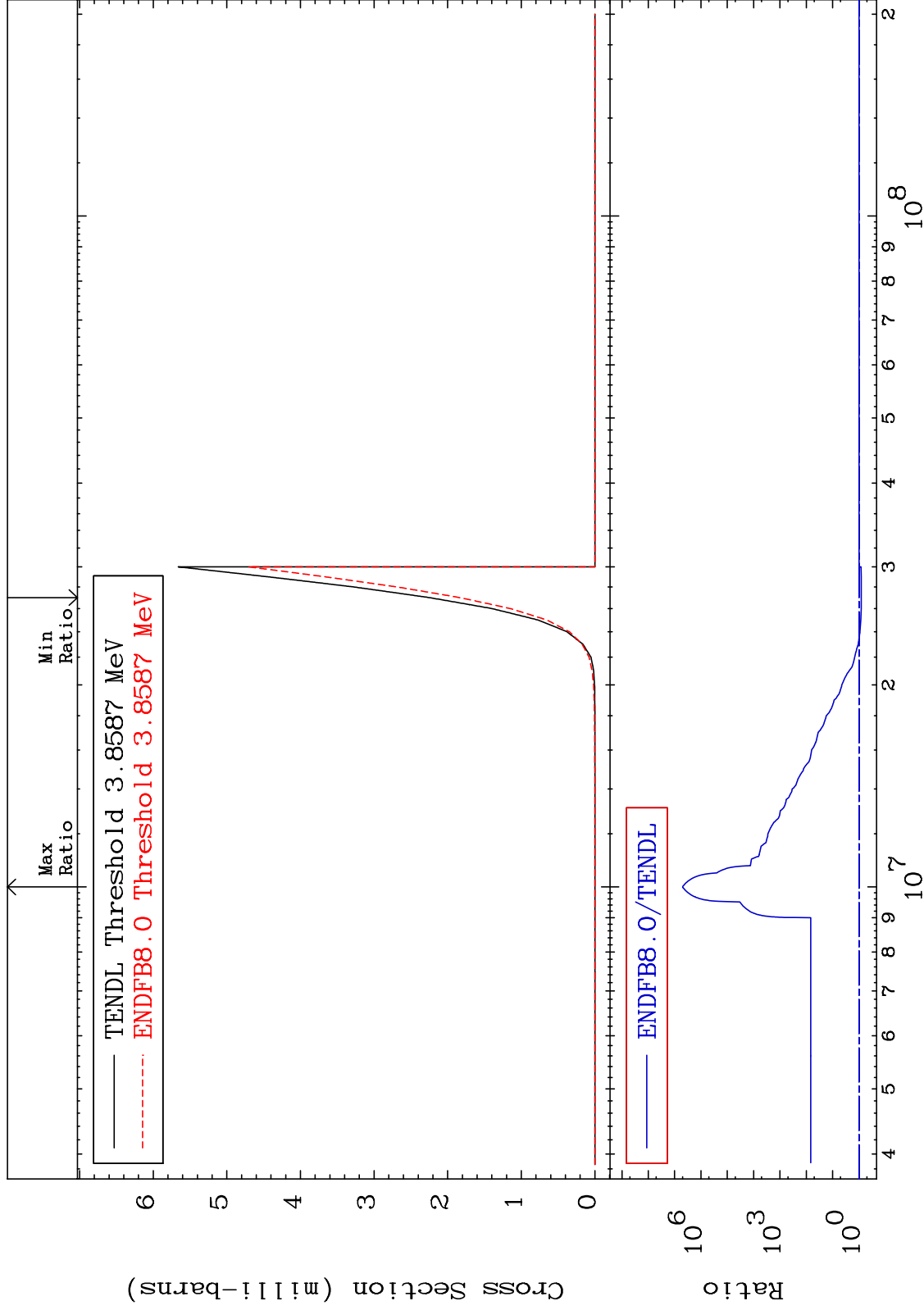
MAT 7834

(n,2n) α

78-Pt-193

-18.34 To 9999. %

Cross Section

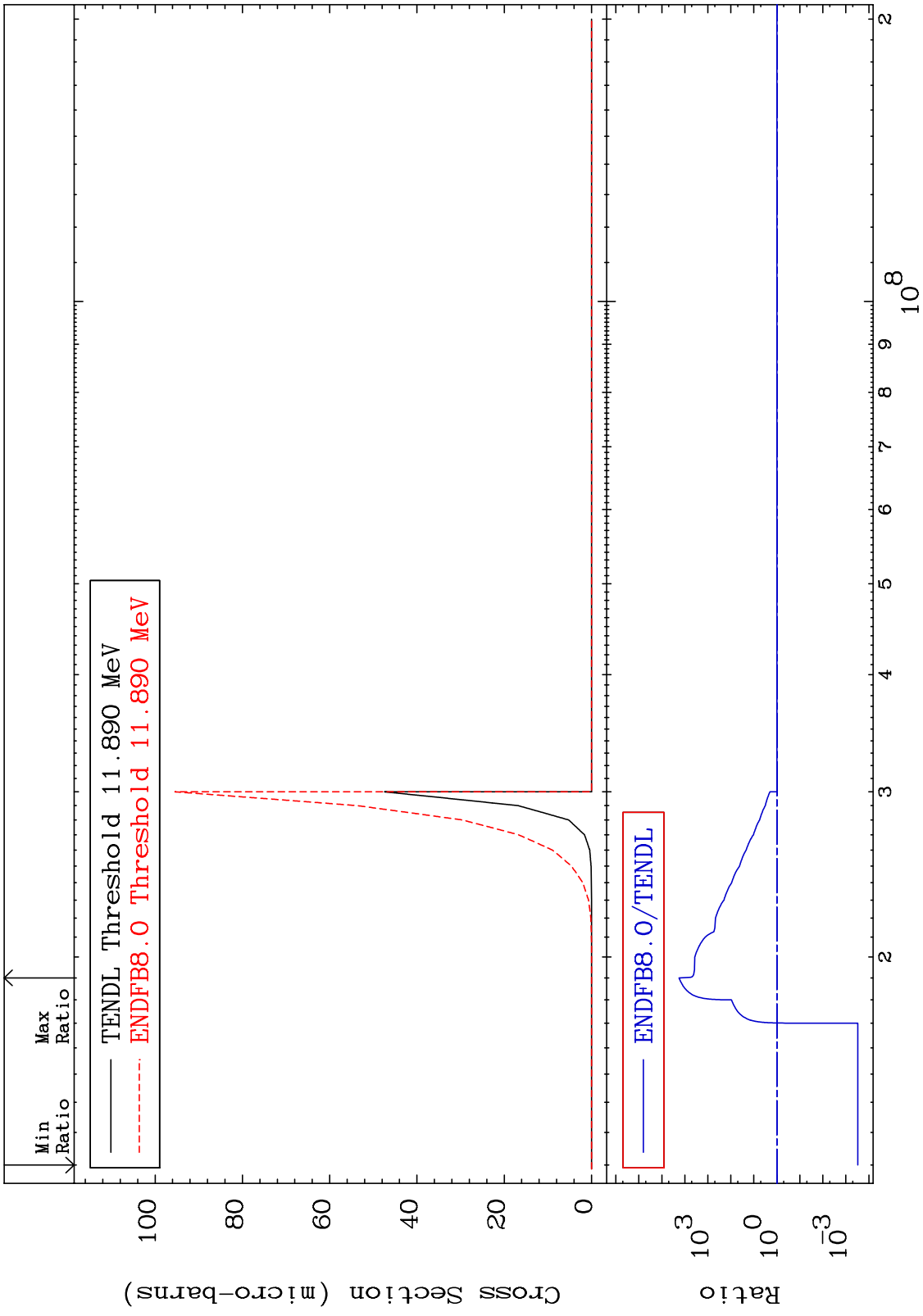


8

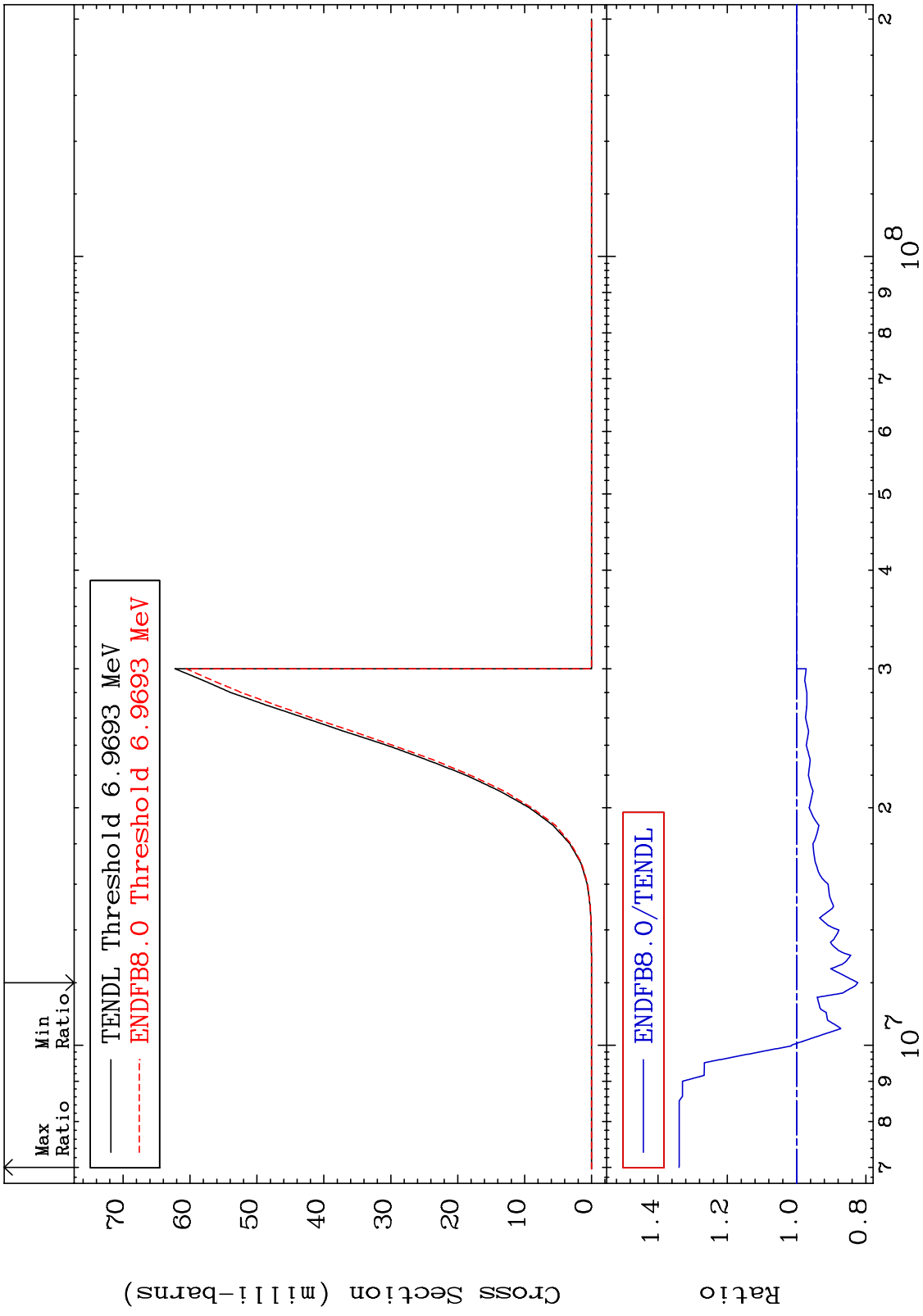
Incident Energy (eV)

78-Pt-193

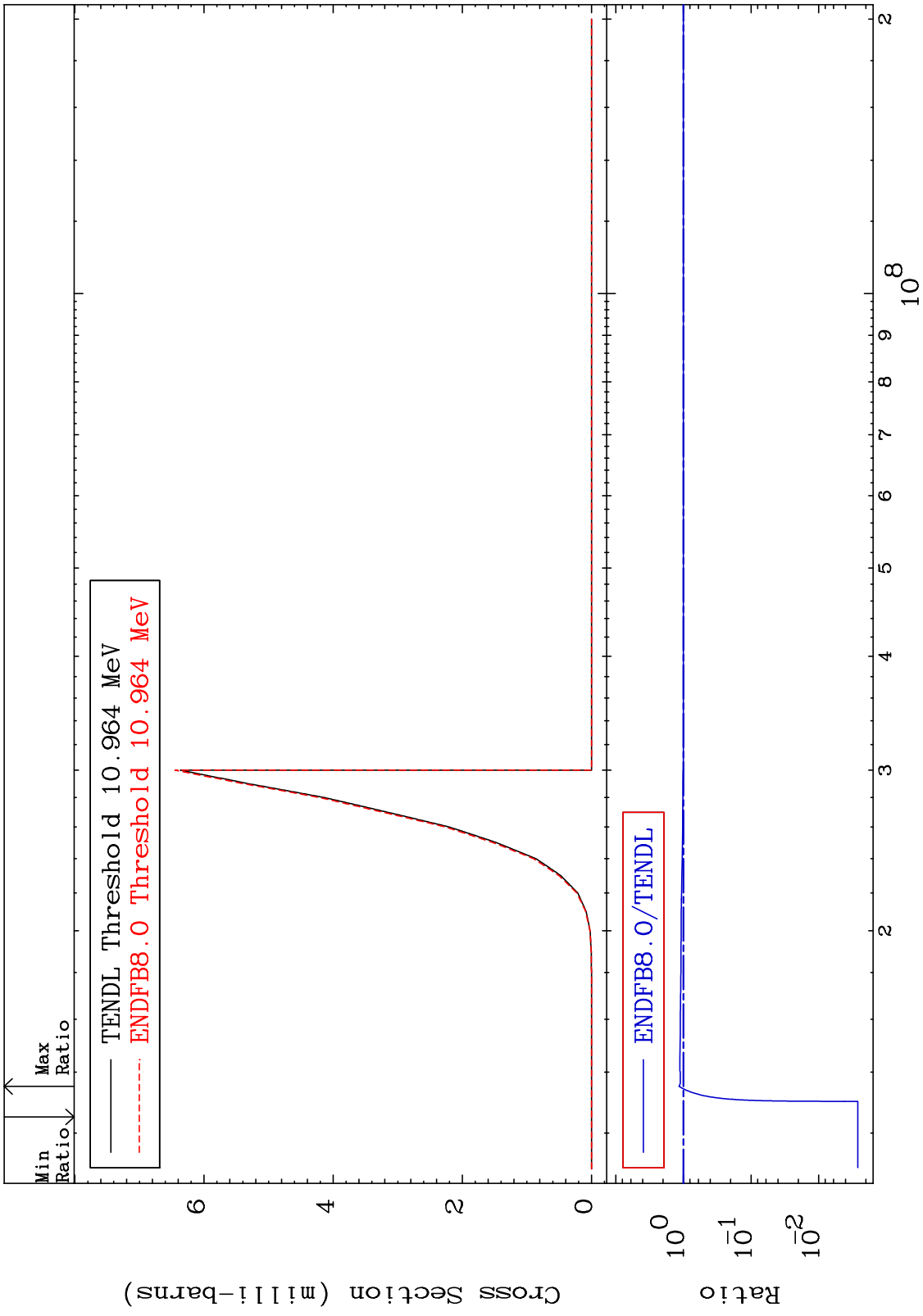
MAT 7834 (n,3n) α 78-Pt-193
 Cross Section -99.97 To 9999. %



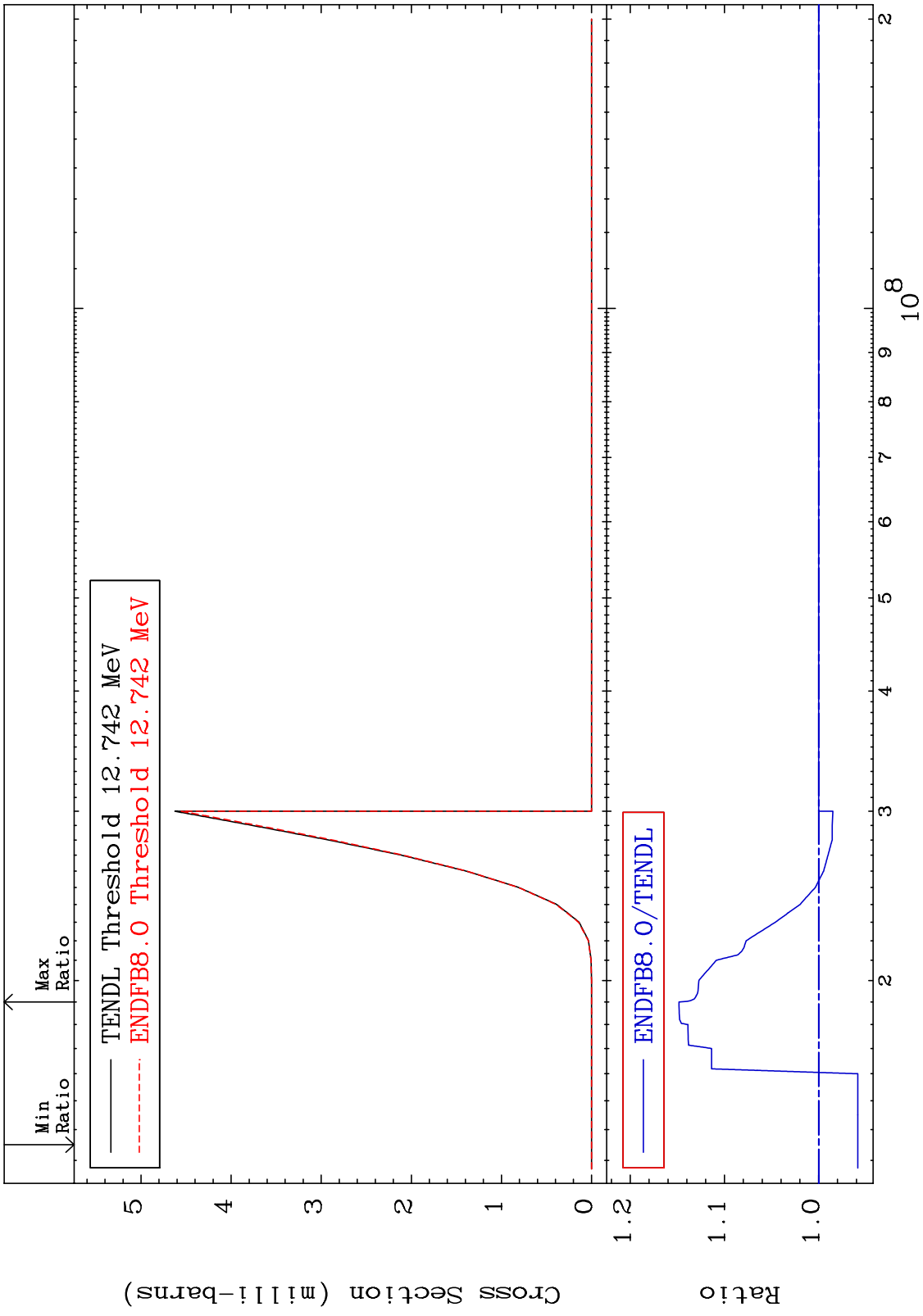
MAT 7834 (n,n') p 78-Pt-193
 Cross Section -17.66 To 33.93 %



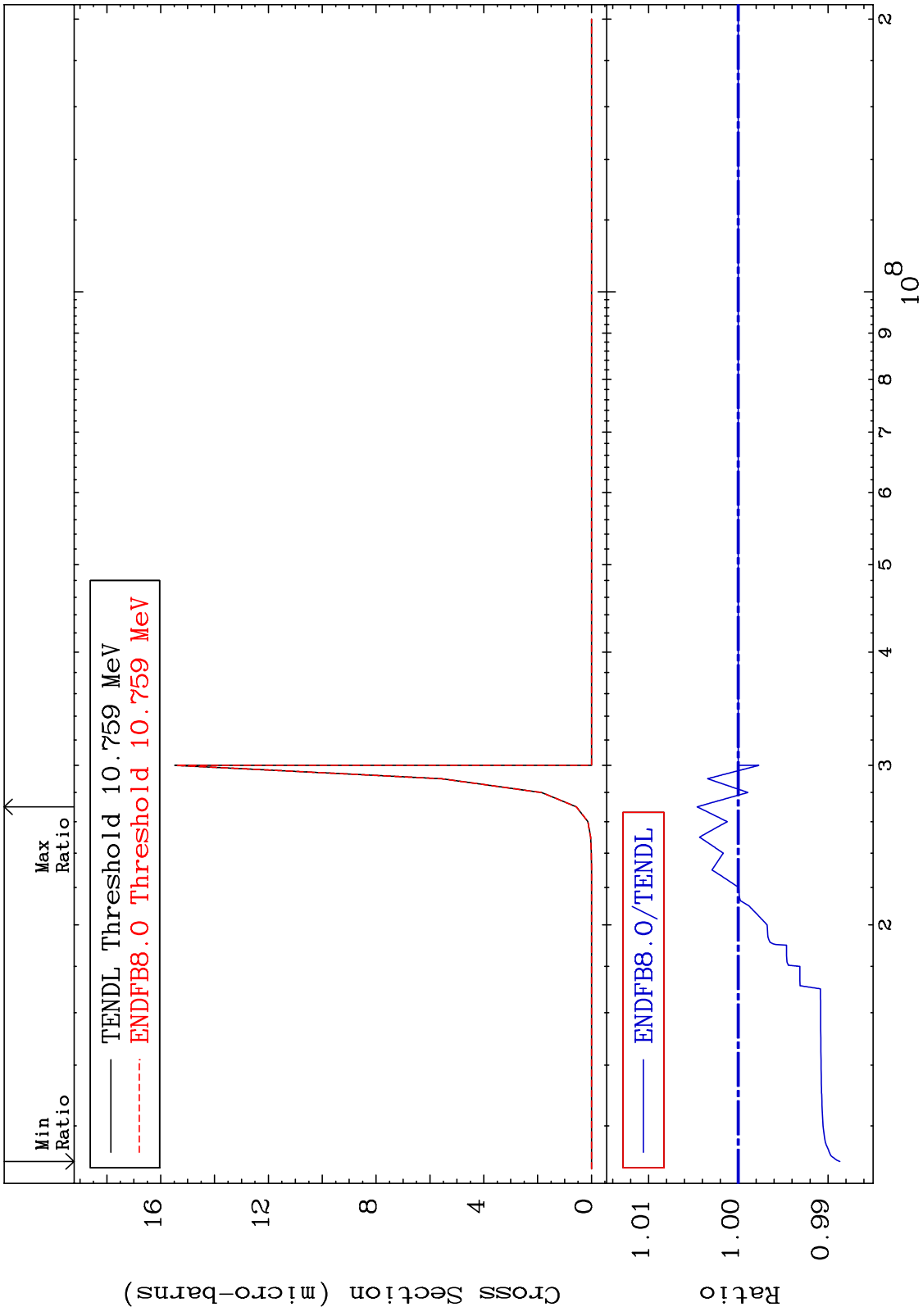
10 Incident Energy (eV) 78-Pt-193



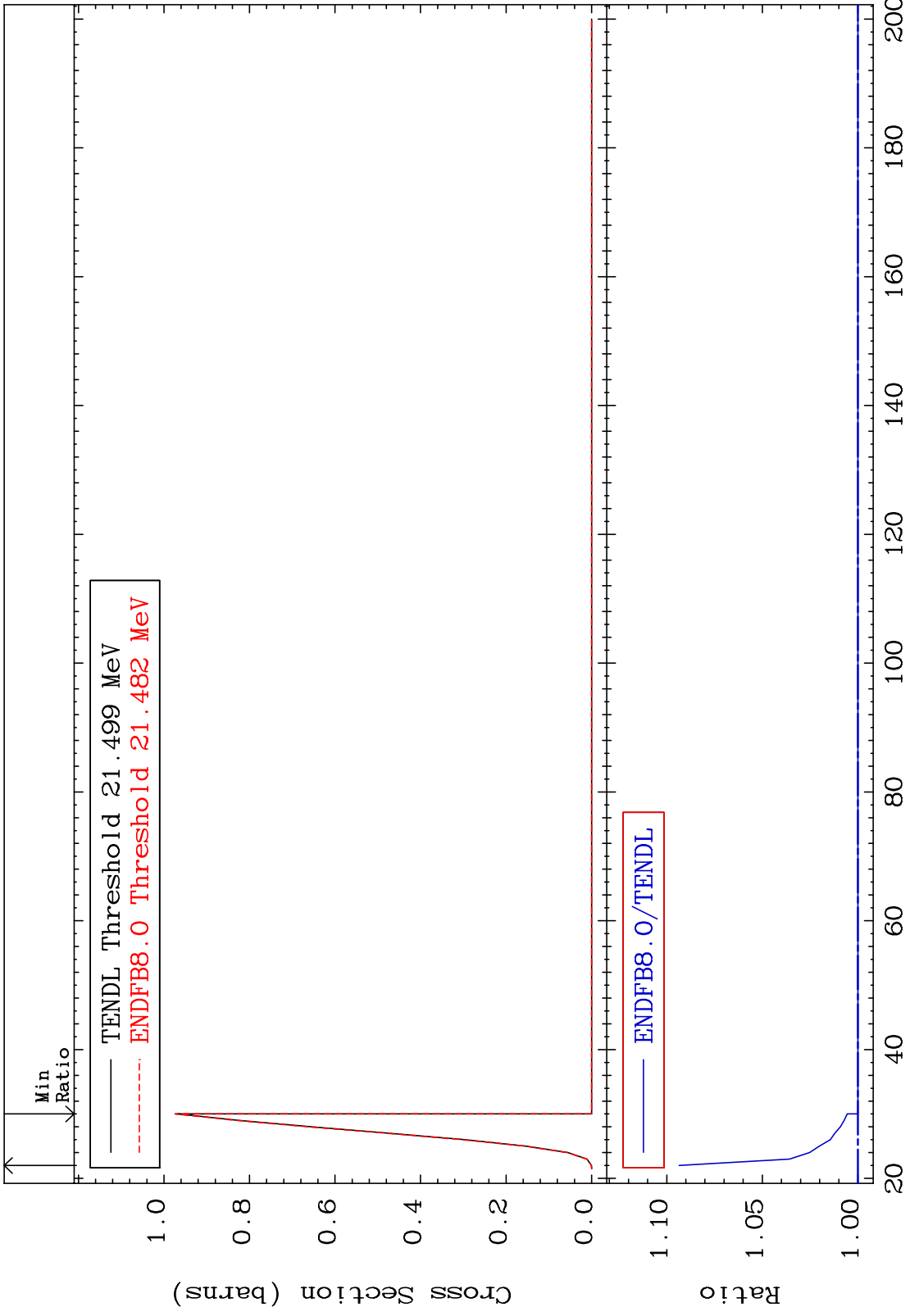
MAT 7834 (n,n') t 78-Pt-193
 Cross Section -4.154 To 14.82 %



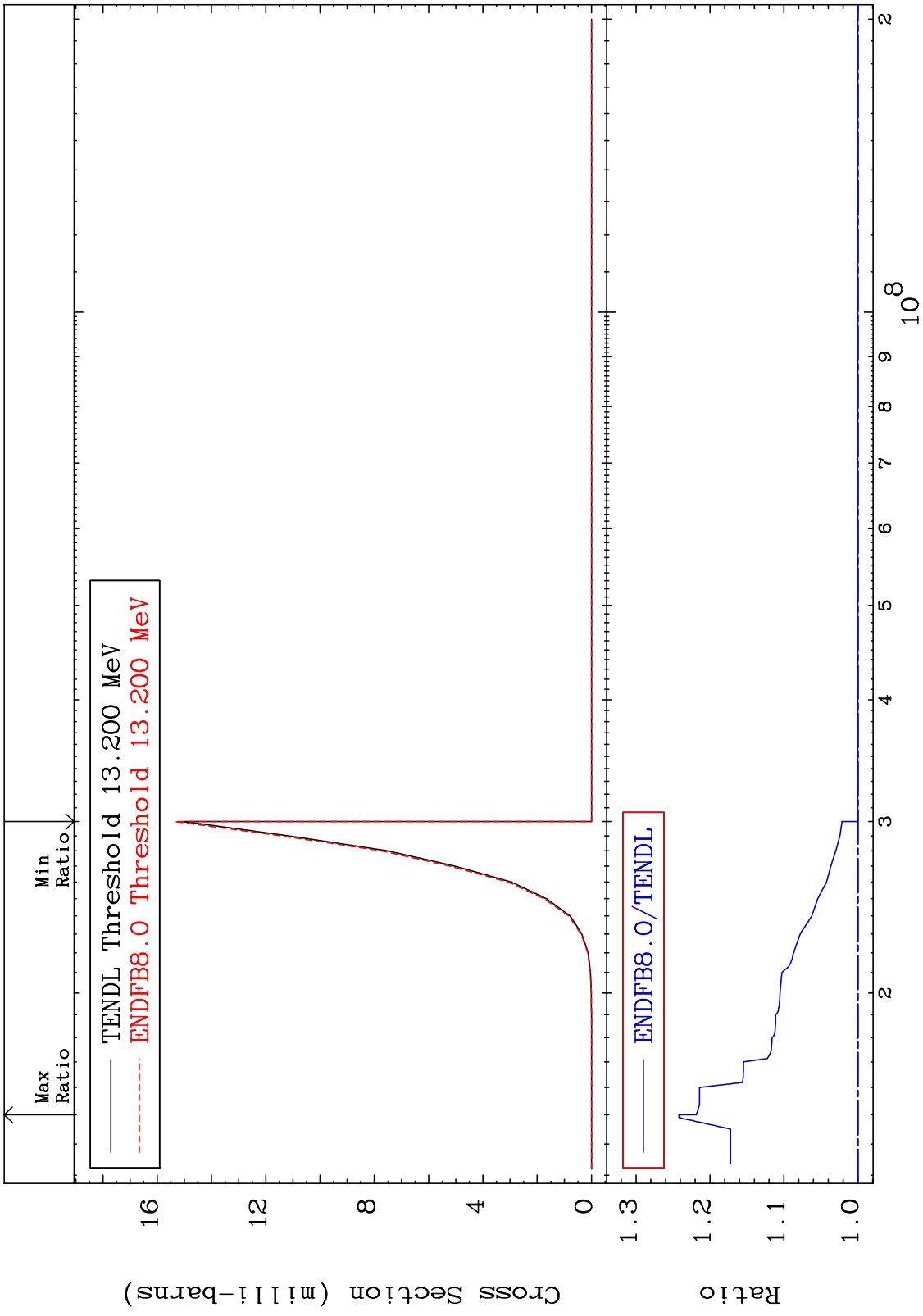
MAT 7834 (n,n') He-3 78-Pt-193
 Cross Section -1.132 To 0.459 %



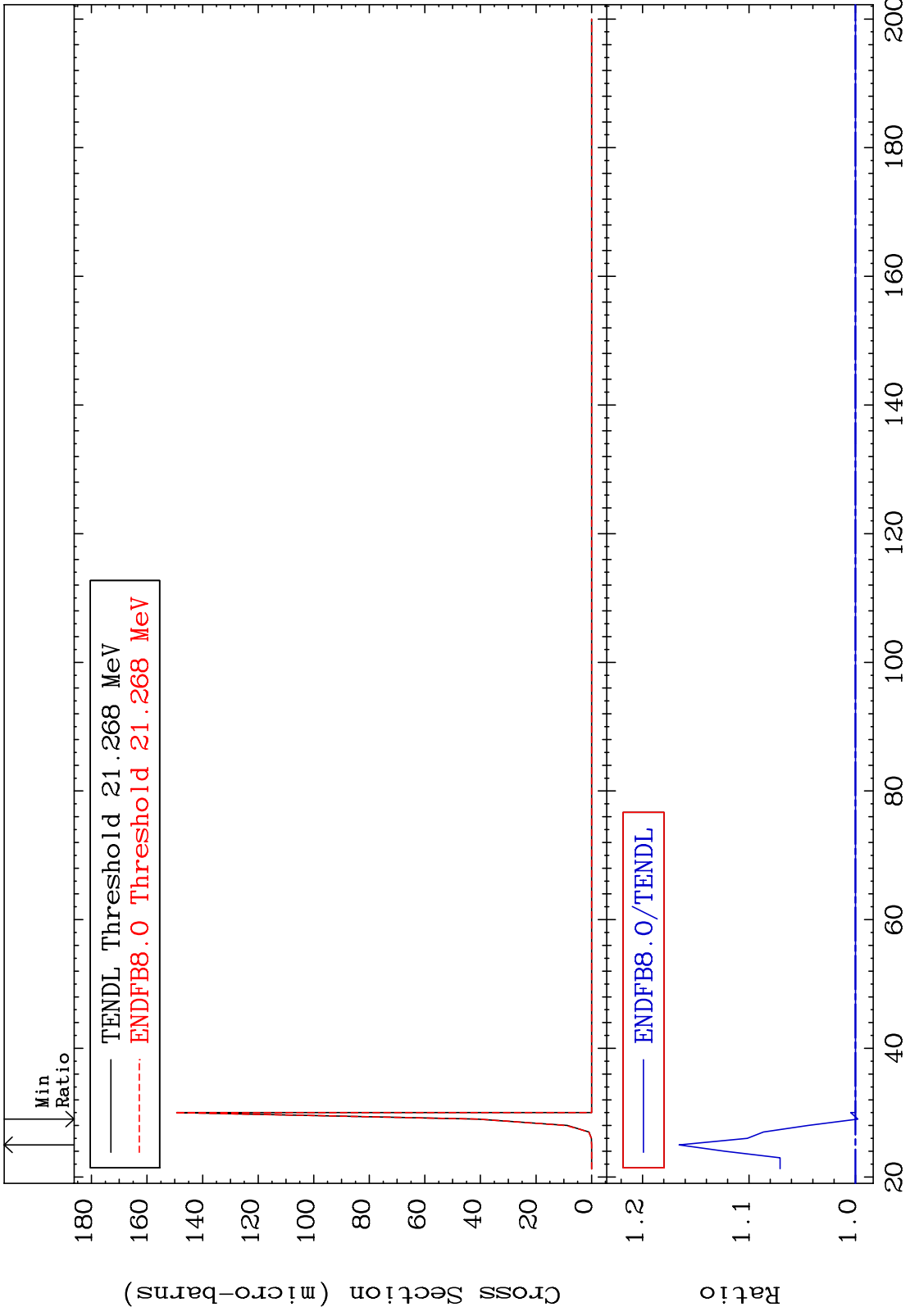
MAT 7834 (n,4n) Cross Section 78-Pt-193 To 9.351 %



MAT 7834 (n,2n) p 78-Pt-193
 Cross Section 0.000 To 24.18 %

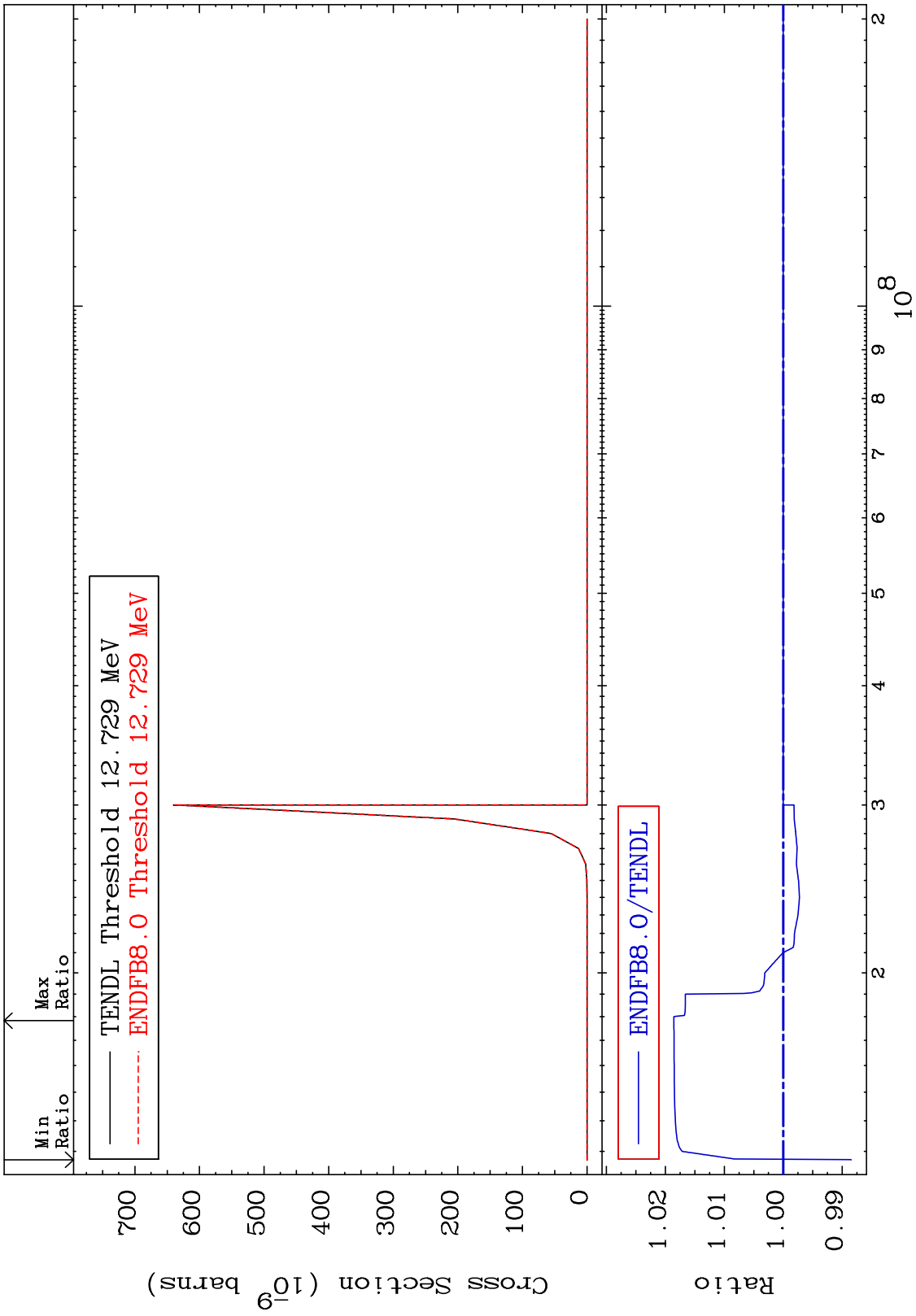


MAT 7834 (n,3n) p 78-Pt-193
Cross Section -0.239 To 16.56 %

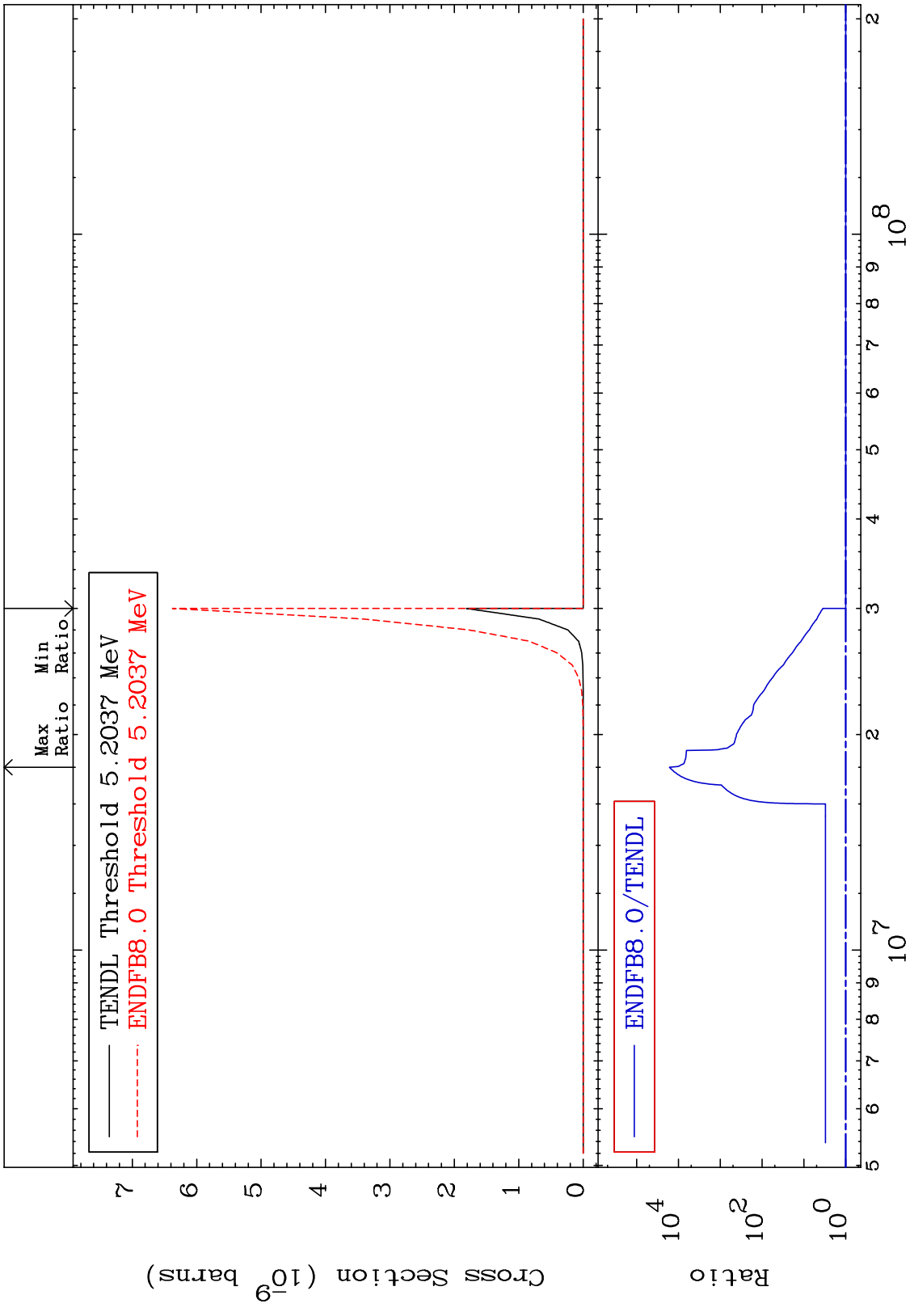


16 78-Pt-193

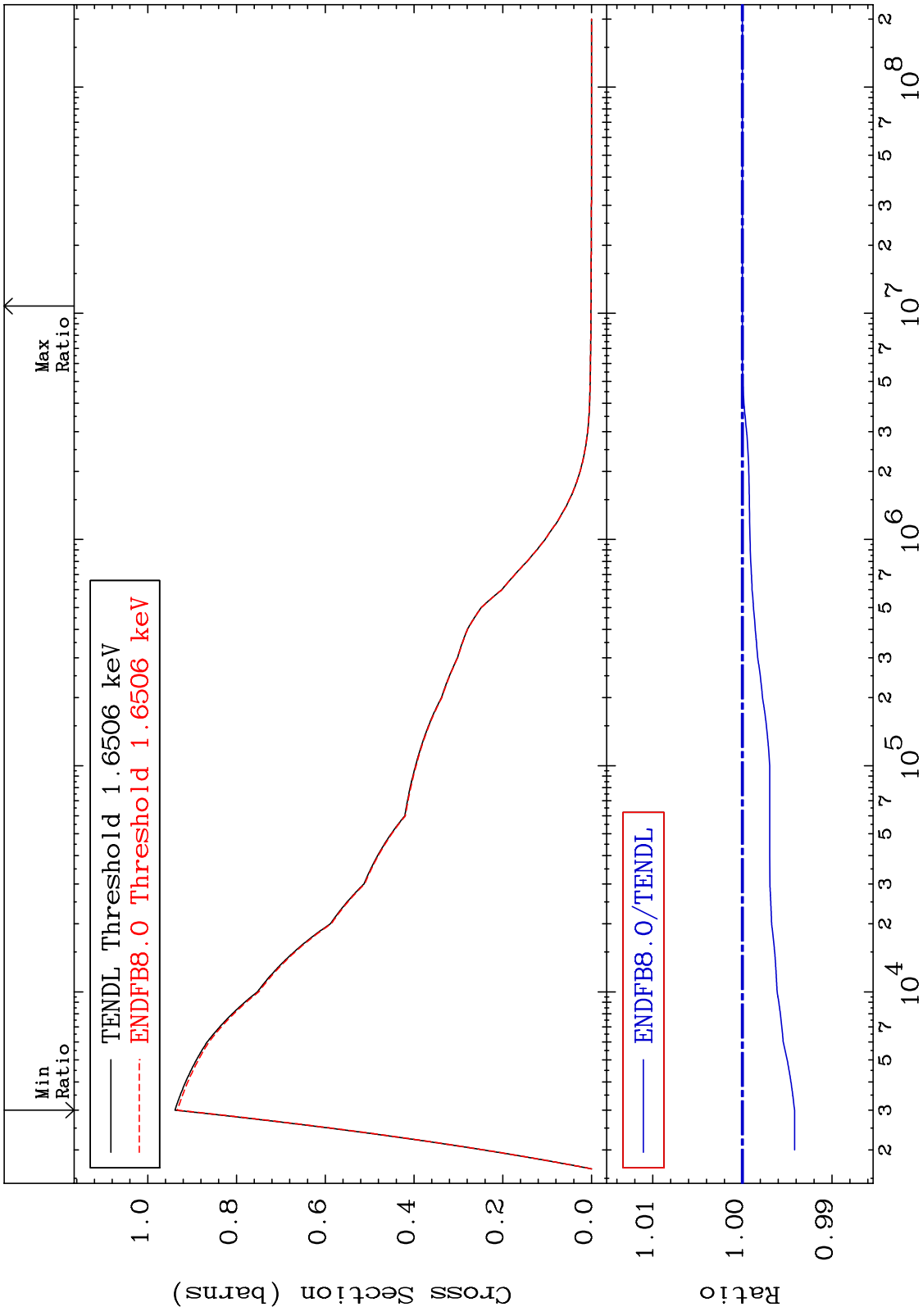
MAT 7834 (n,2n) p 78-Pt-193
 Cross Section -1.155 To 1.855 %



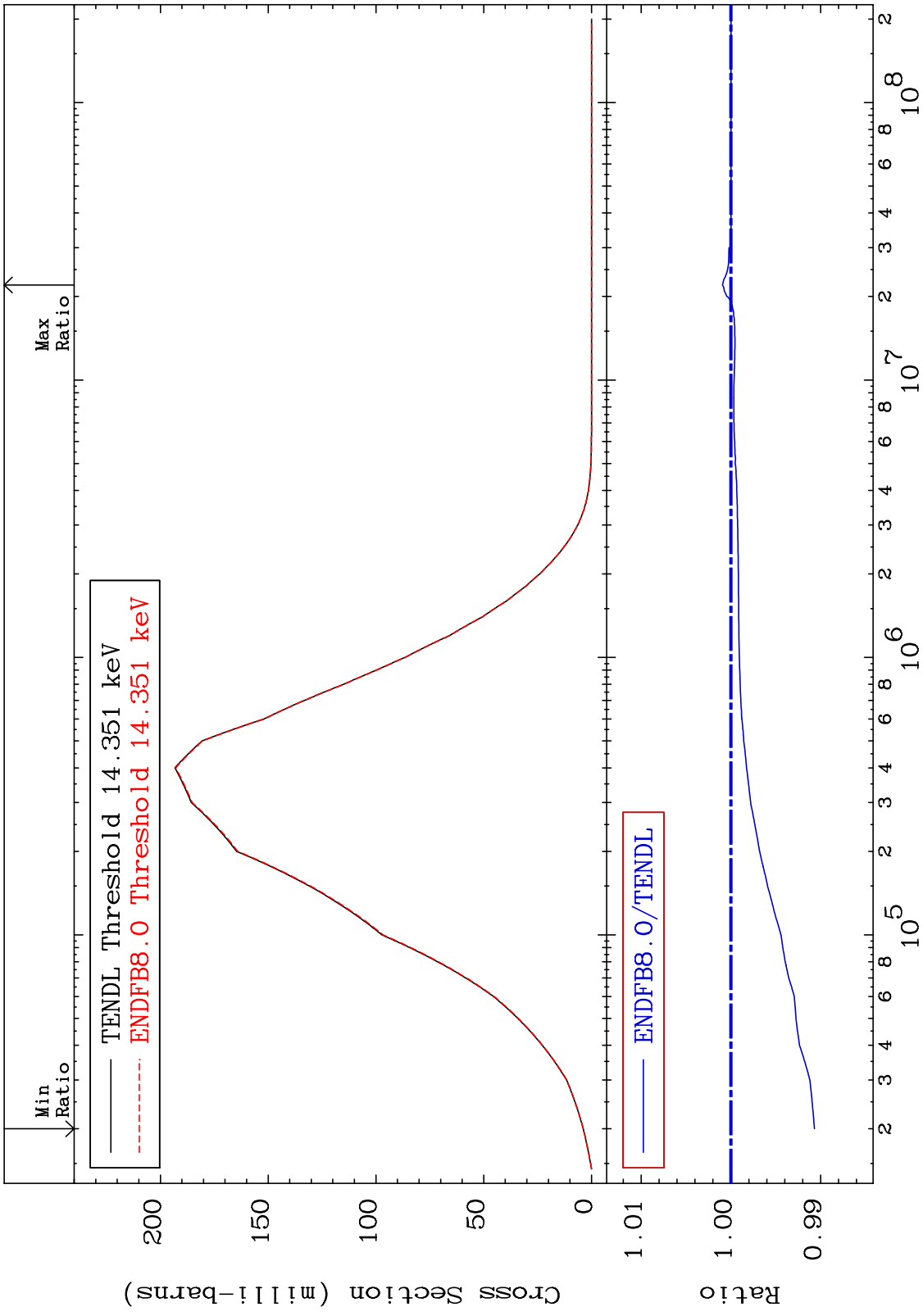
MAT 7834 (n,n') p α Cross Section 78-Pt-193 To 9999. %



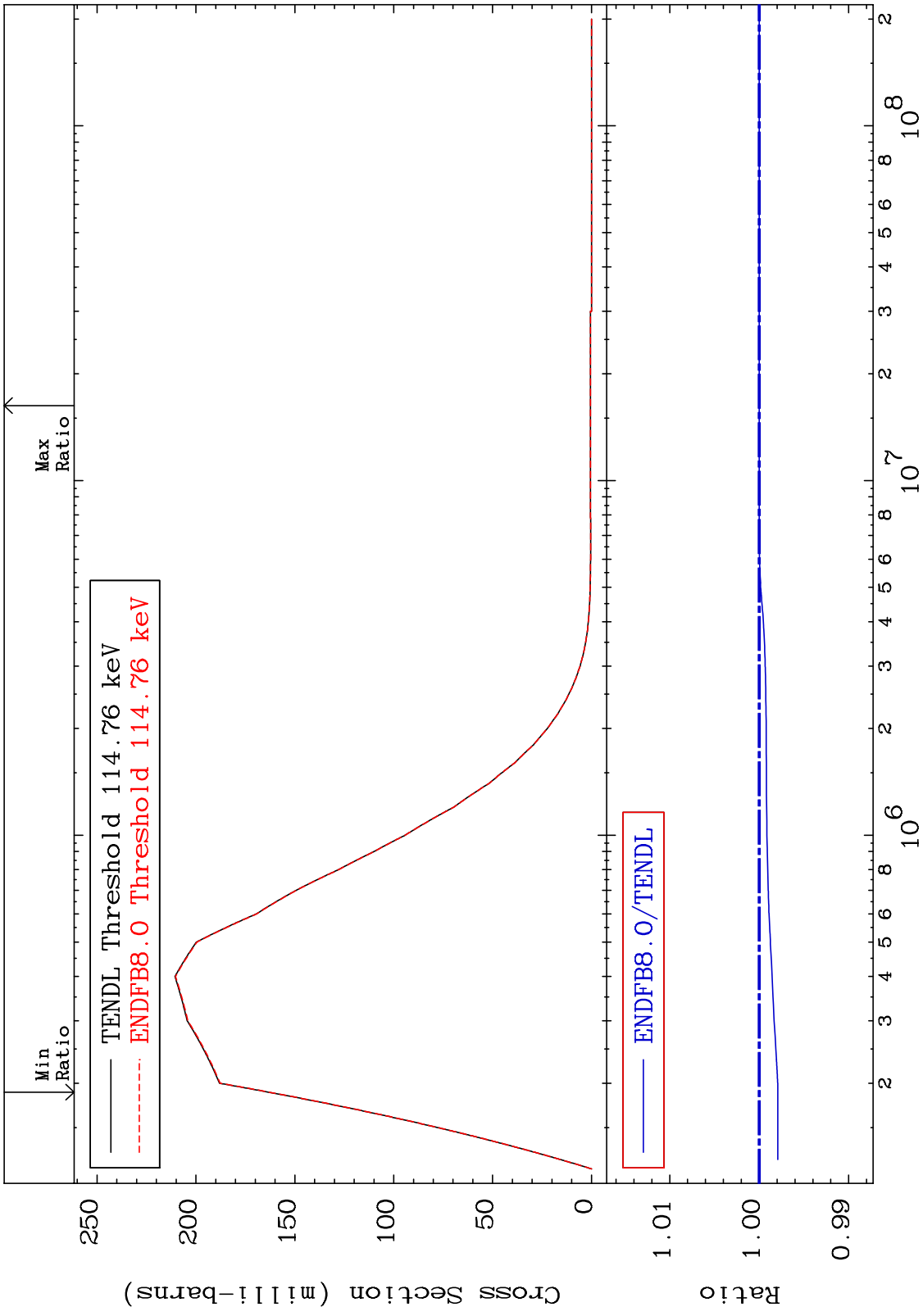
MAT 7834 MT= 51 (n,n') Level Cross Section 78-Pt-193
 -0.582 To 0.000 %



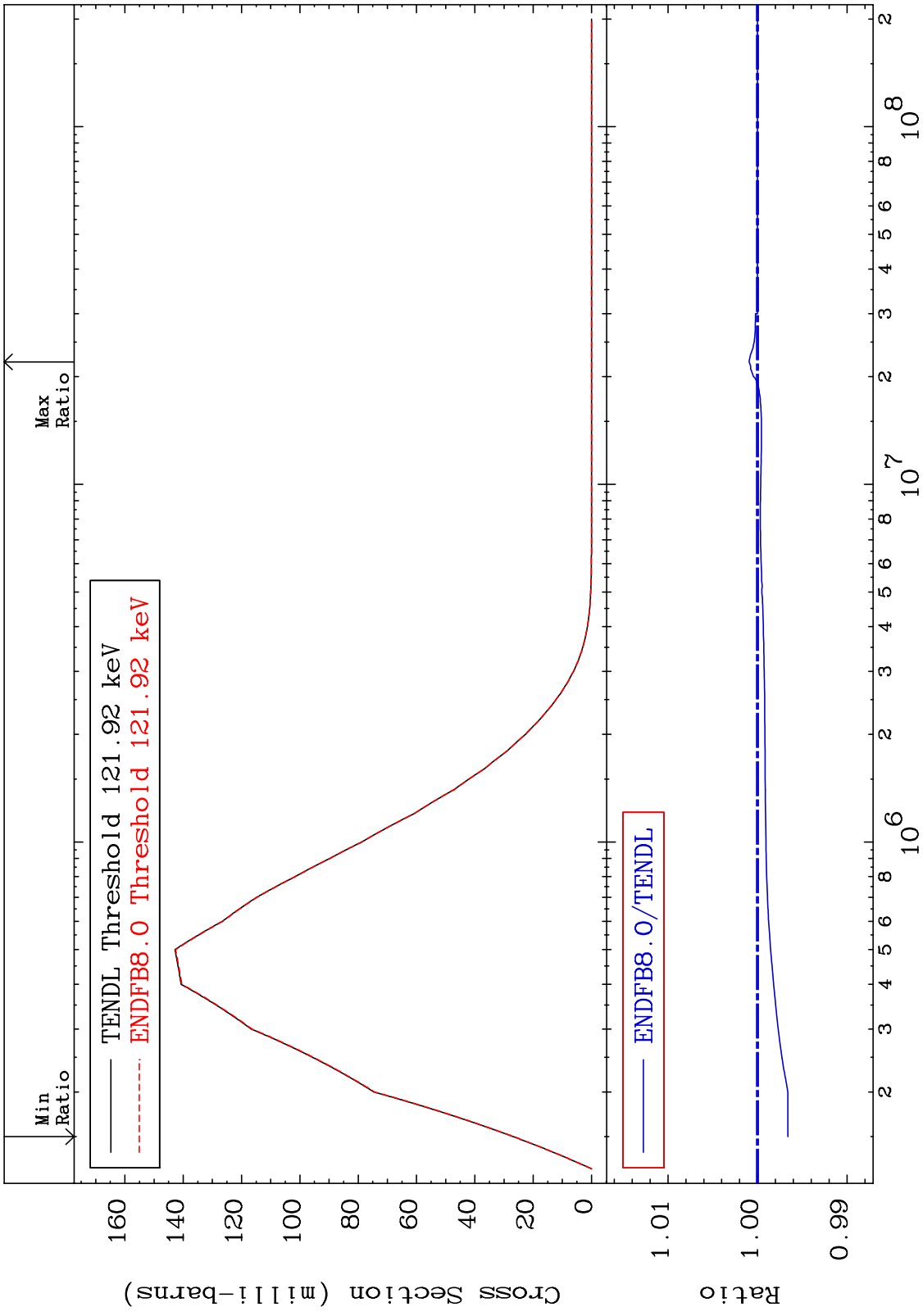
MAT 7834 MT= 52 (n,n') Level Cross Section 78-Pt-193
 -0.931 To 0.094 %



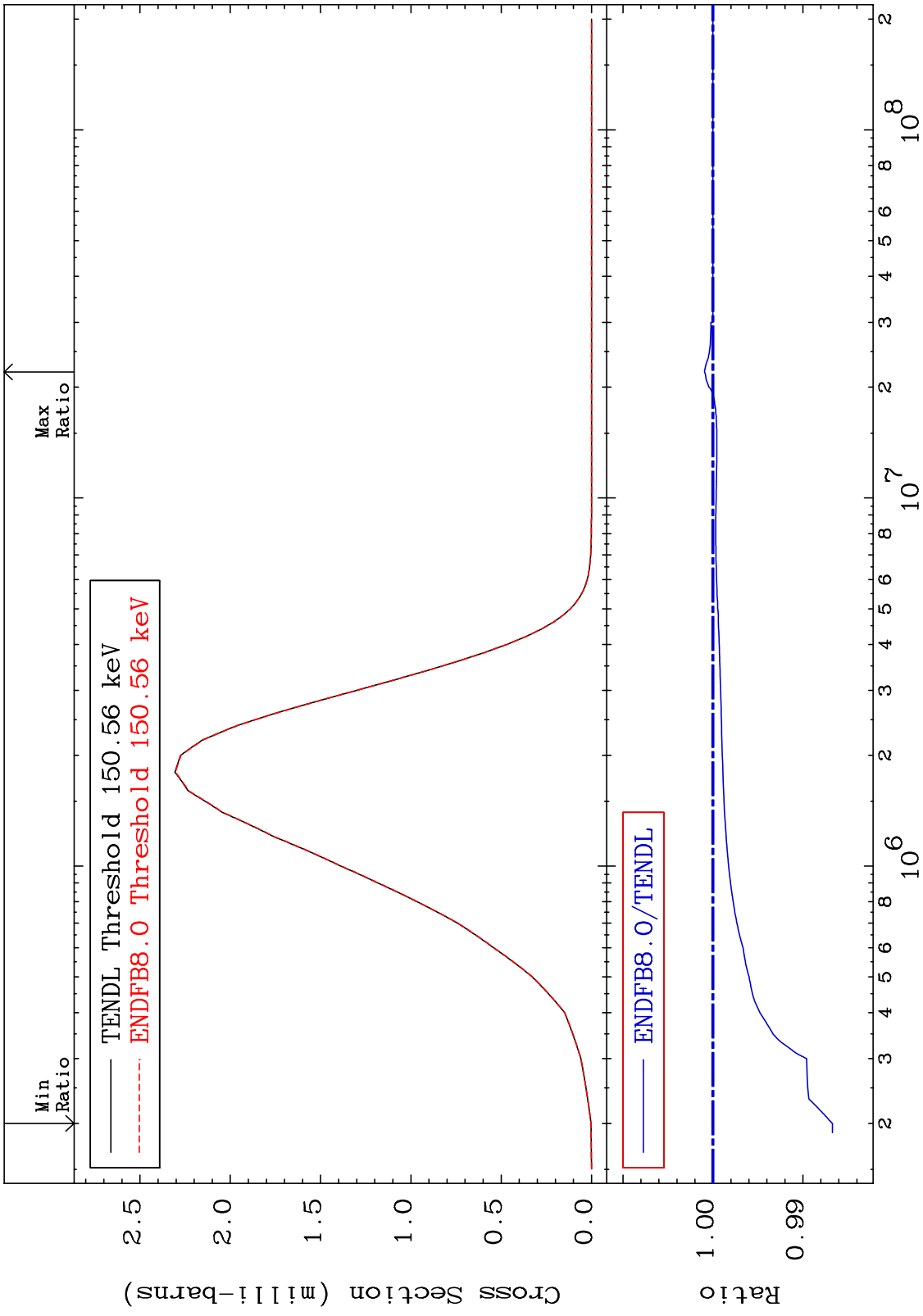
MAT 7834 MT= 53 (n,n') Level Cross Section 78-Pt-193
 -0.207 To 0.000 %



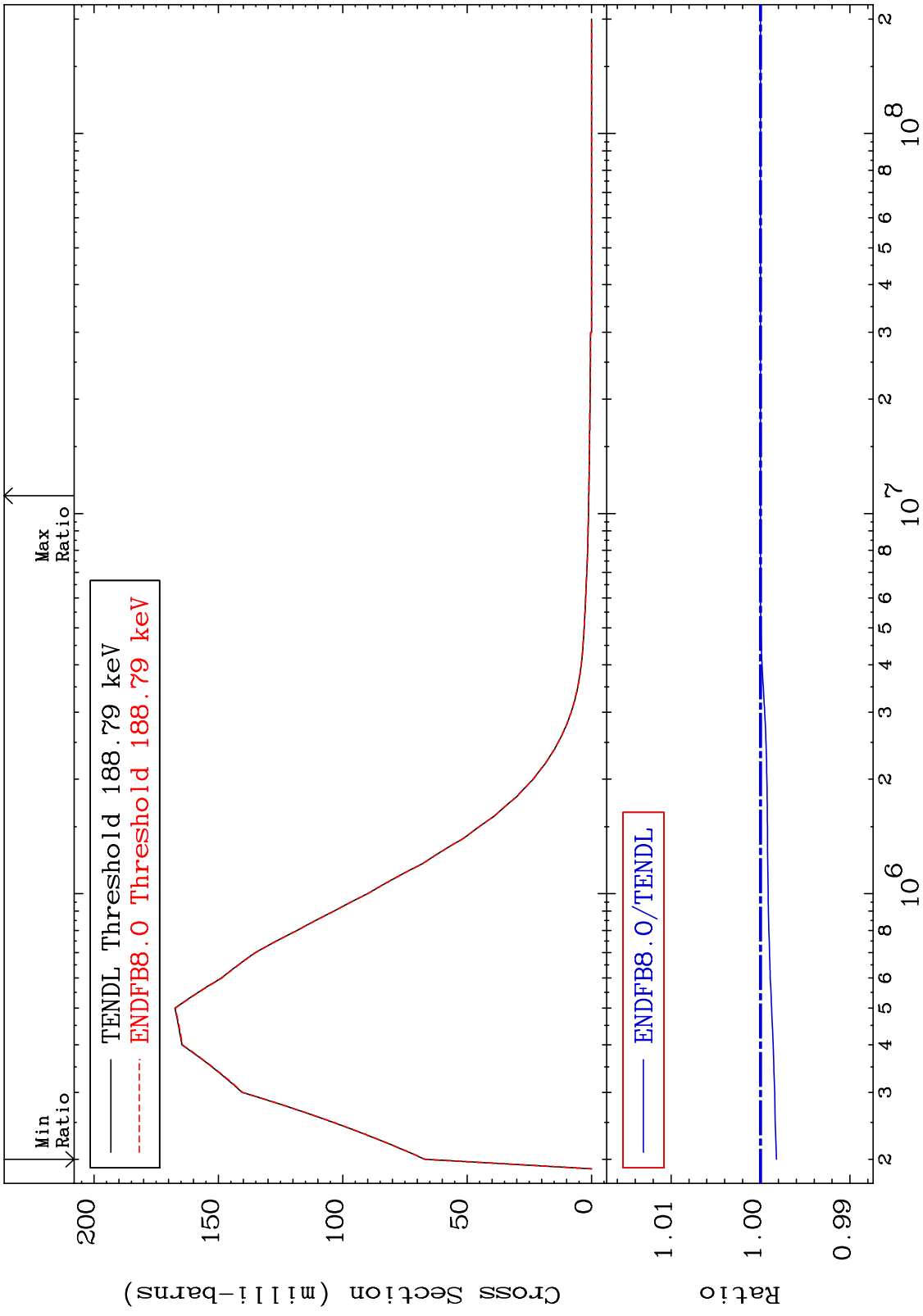
MAT 7834 MT= 54 (n,n') Level Cross Section 78-Pt-193
 -0.339 To 0.094 %



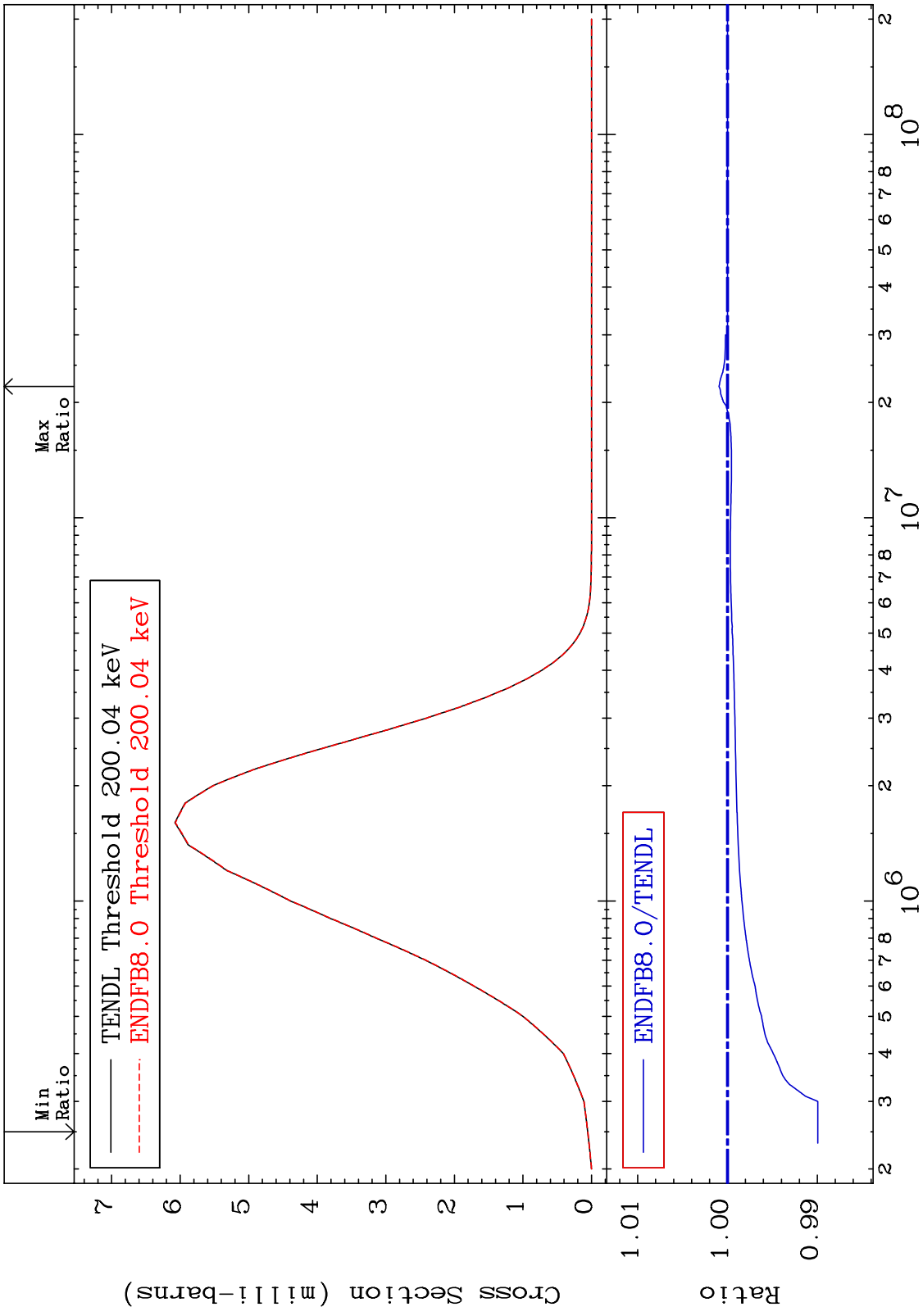
MAT 7834 MT= 55 (n,n') Level Cross Section -1.328 To 0.094 % 78-Pt-193



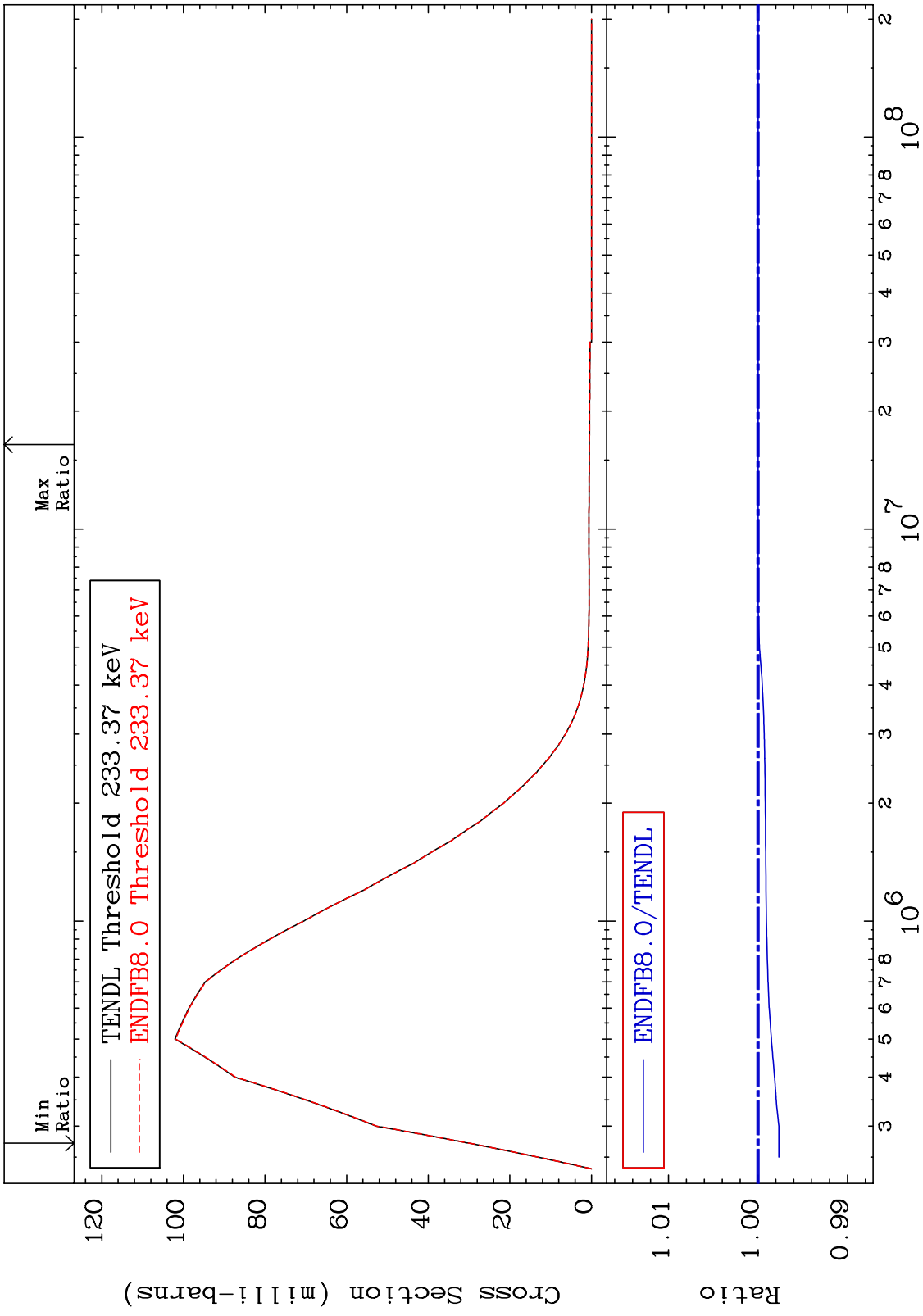
MAT 7834 MT= 56 (n,n') Level Cross Section 78-Pt-193 -0.177 To 0.000 %



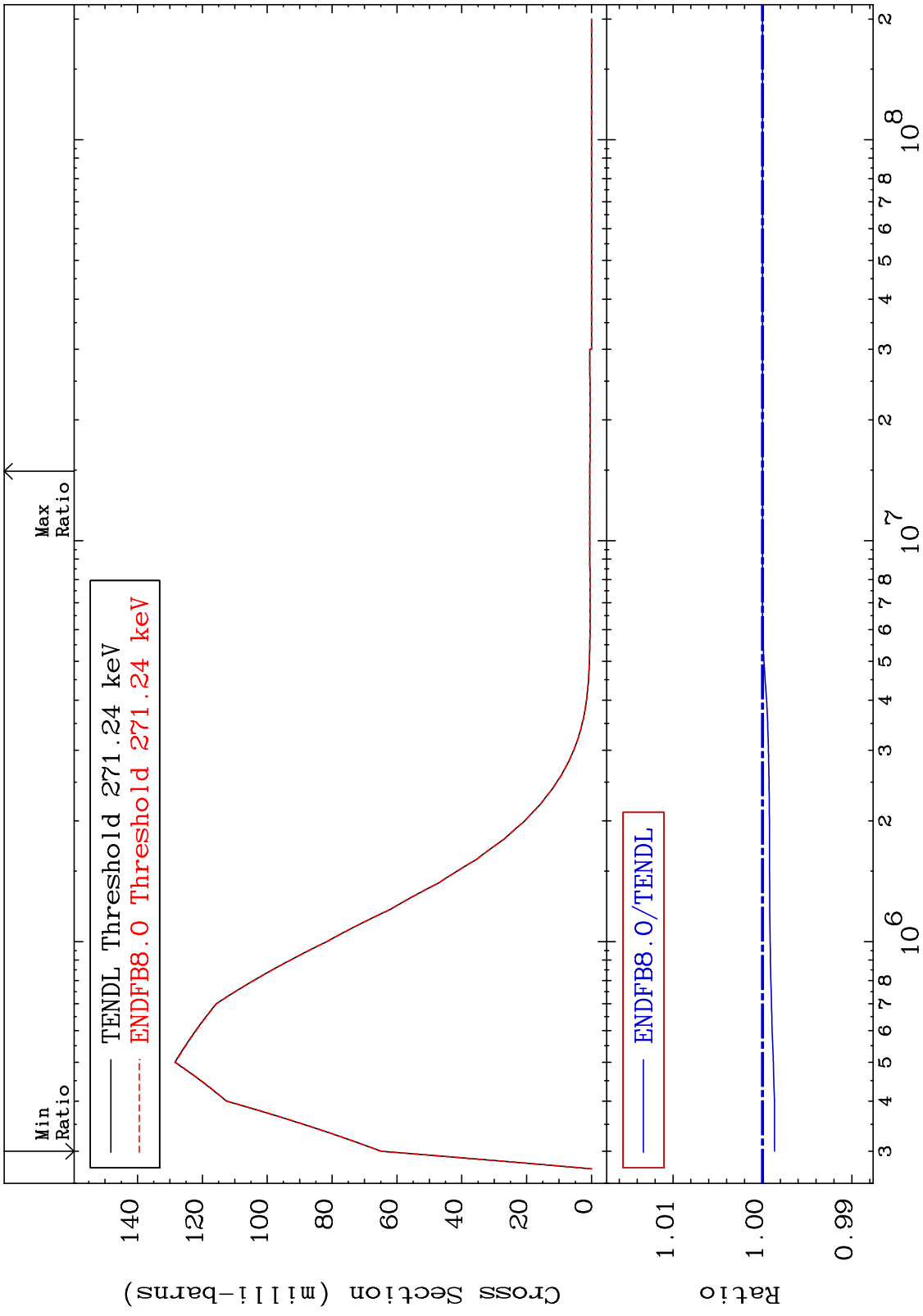
MAT 7834 MT= 57 (n,n') Level Cross Section 78-Pt-193
 -1.006 To 0.094 %



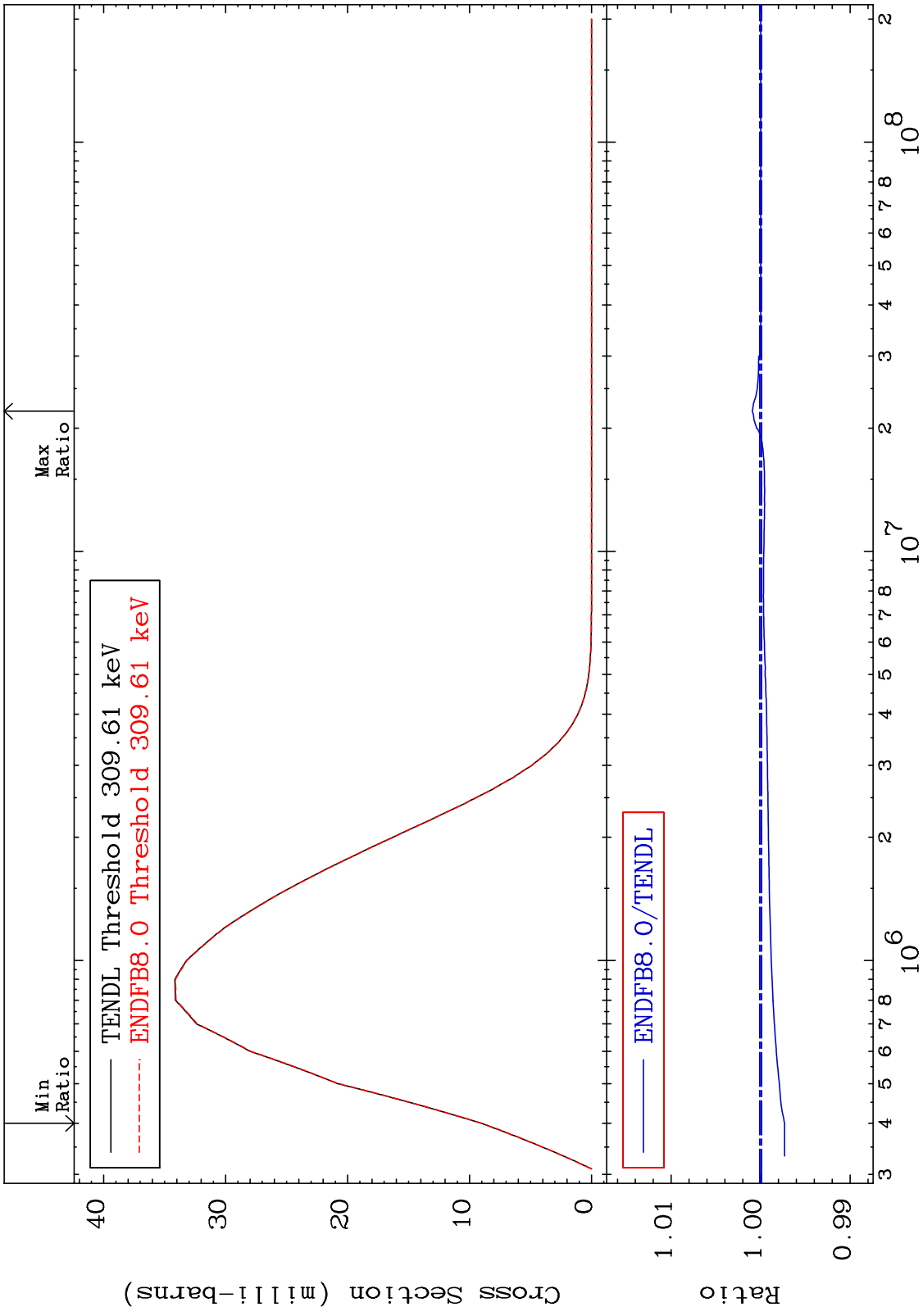
MAT 7834 MT= 58 (n,n') Level Cross Section 78-Pt-193
 -0.233 To 0.000 %



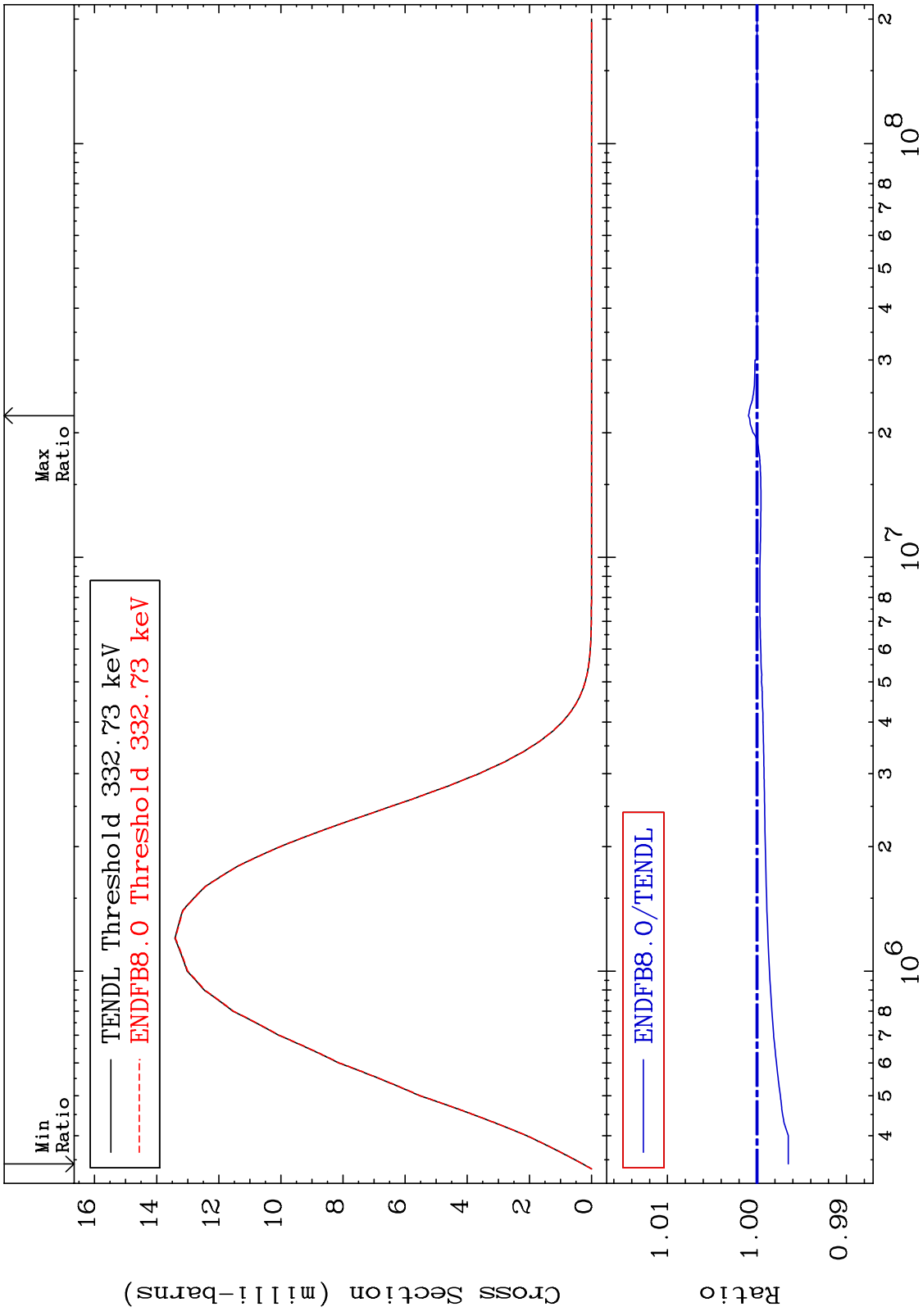
MAT 7834 MT= 59 (n,n') Level Cross Section 78-Pt-193 -0.135 To 0.000 %



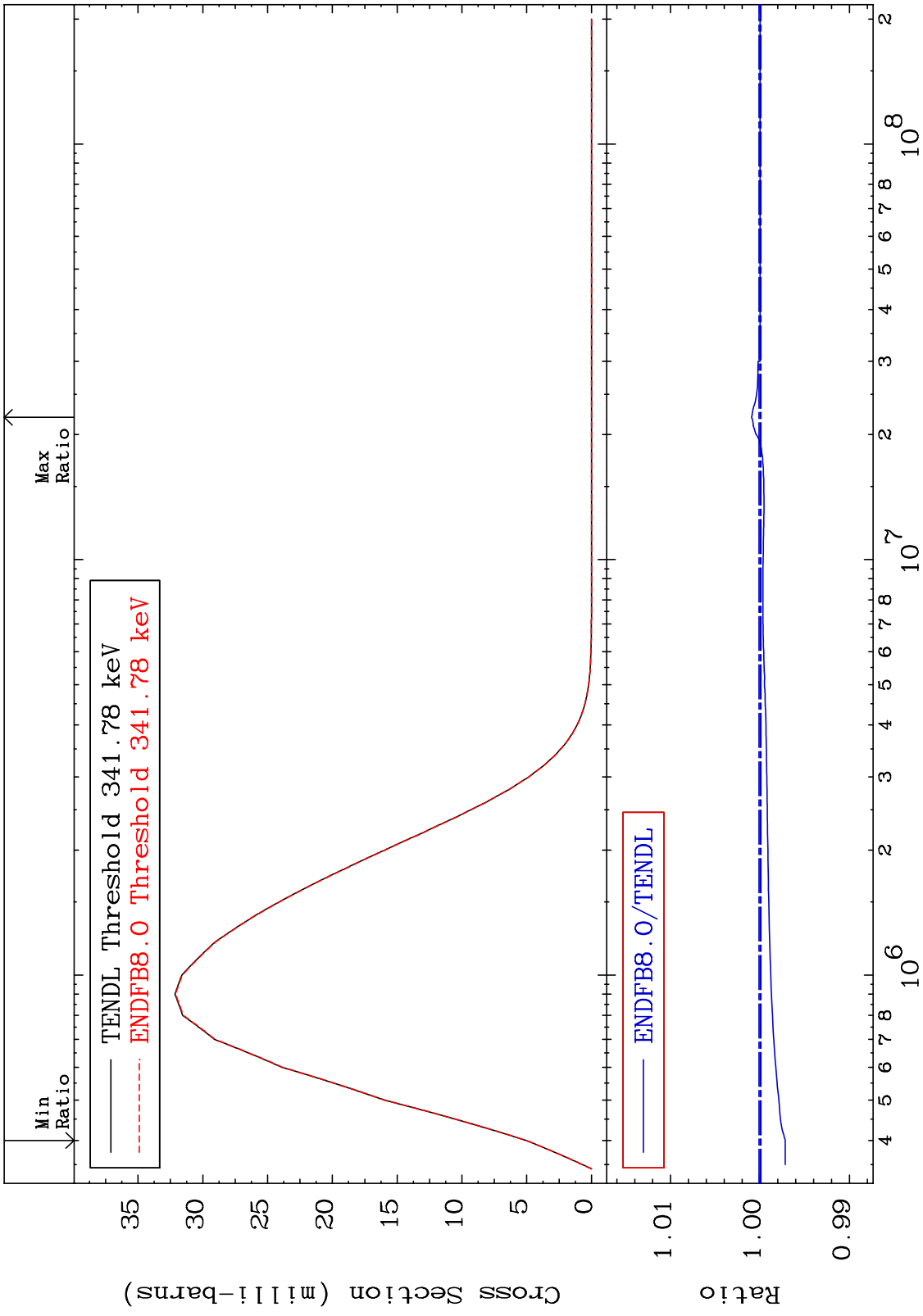
MAT 7834 MT= 60 (n,n') Level Cross Section 78-Pt-193
 -0.268 To 0.093 %



MAT 7834 MT= 61 (n,n') Level Cross Section 78-Pt-193
 -0.350 To 0.094 %

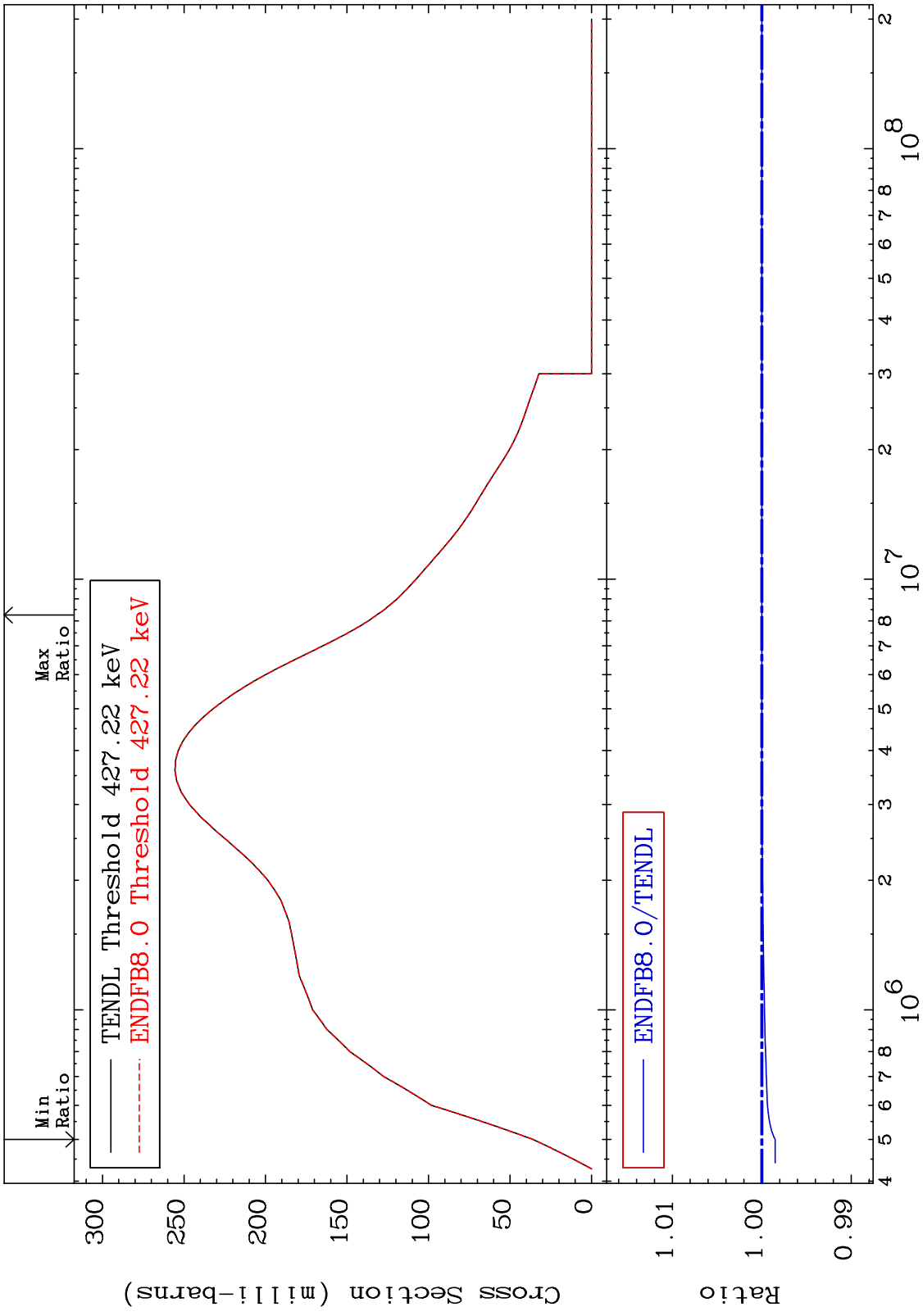


MAT 7834 MT= 62 (n,n') Level Cross Section 78-Pt-193
 -0.282 To 0.093 %

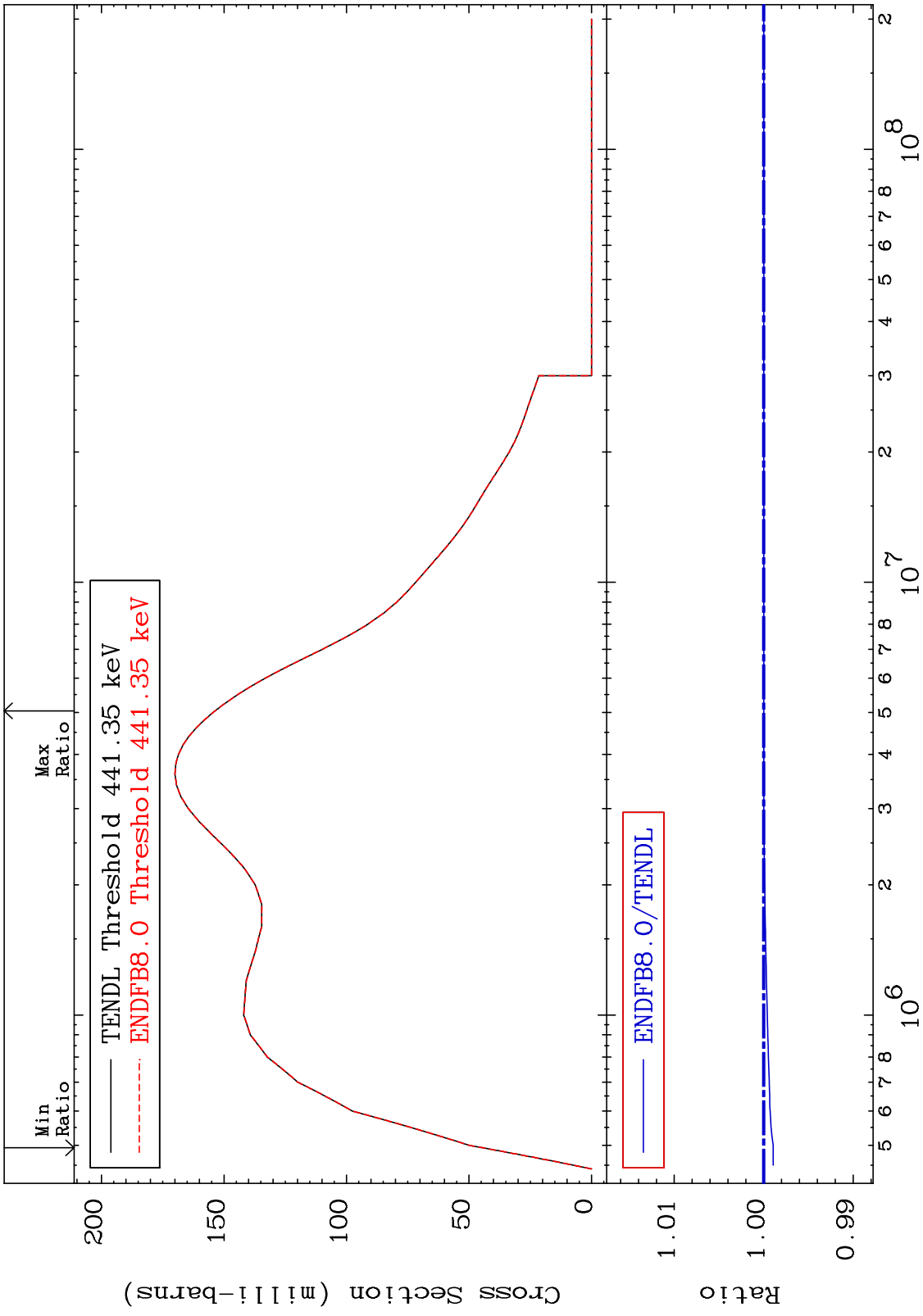


30 78-Pt-193

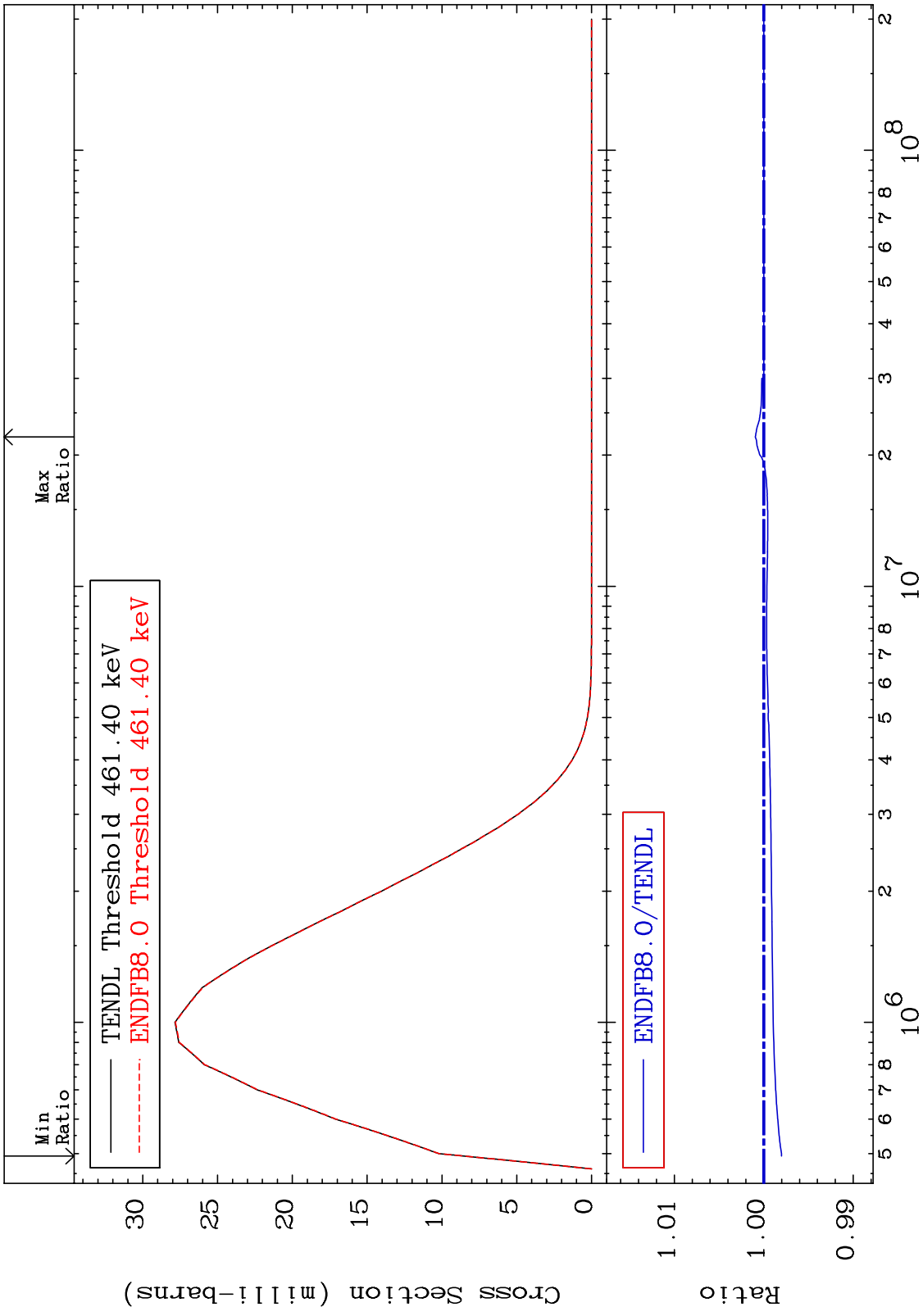
MAT 7834 MT= 63 (n,n') Level Cross Section 78-Pt-193
 -0.149 To 0.000 %



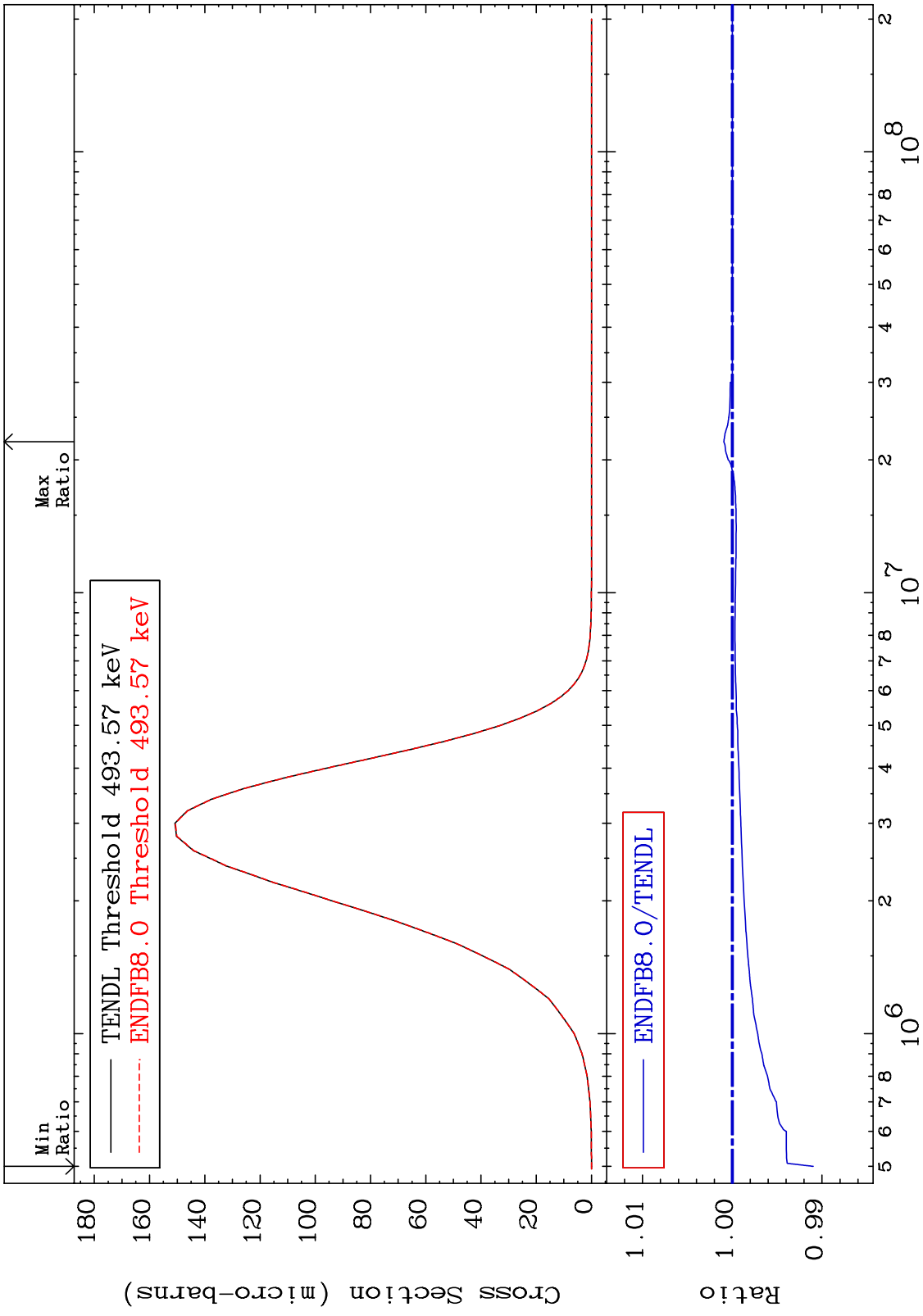
MAT 7834 MT= 64 (n,n') Level Cross Section 78-Pt-193
 -0.106 To 0.000 %



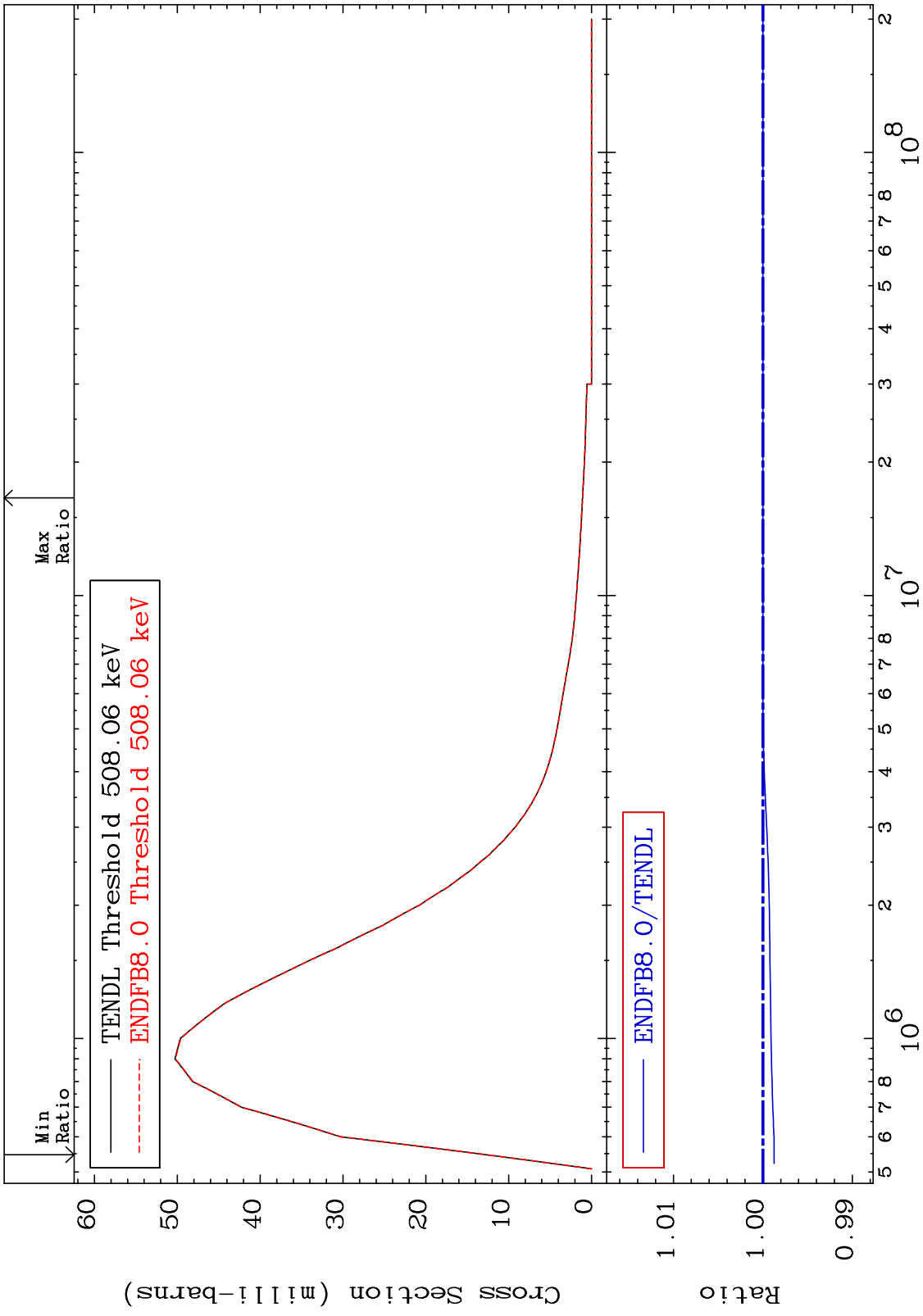
MAT 7834 MT= 65 (n,n') Level Cross Section 78-Pt-193
 -0.199 To 0.094 %



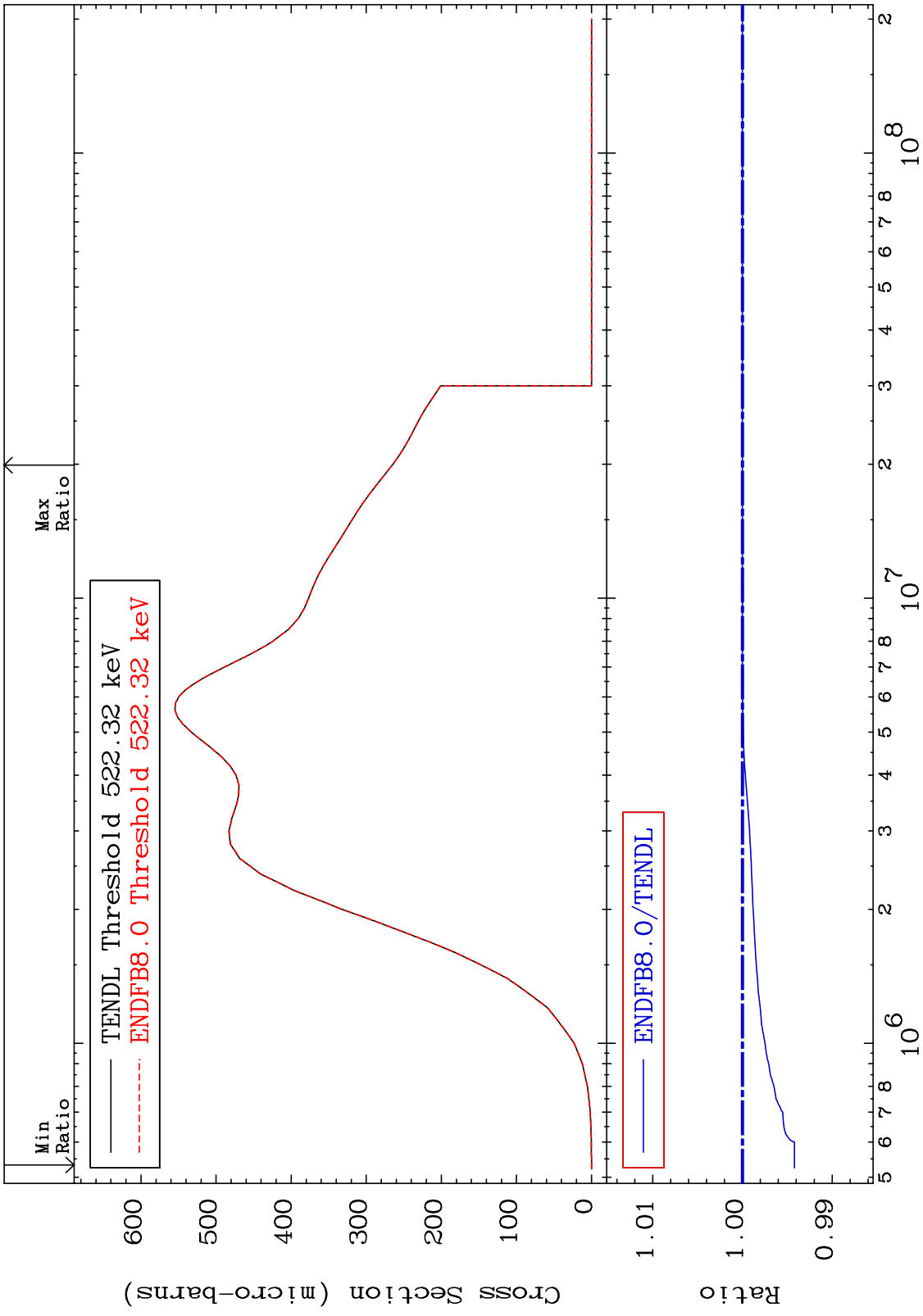
MAT 7834 MT= 66 (n,n') Level Cross Section 78-Pt-193
 -0.900 To 0.095 %



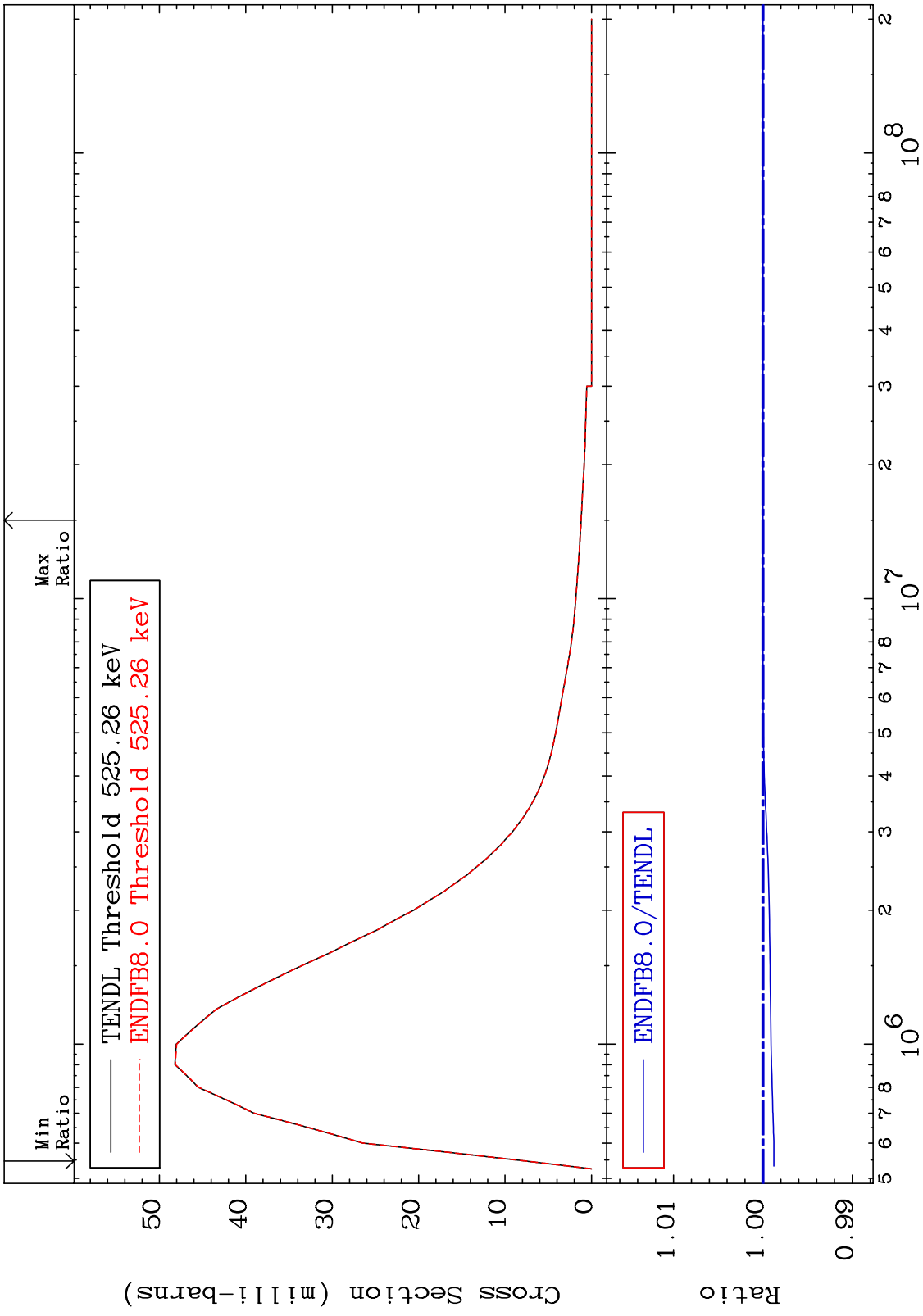
MAT 7834 MT= 67 (n,n') Level Cross Section -0.124 To 0.000 % 78-Pt-193



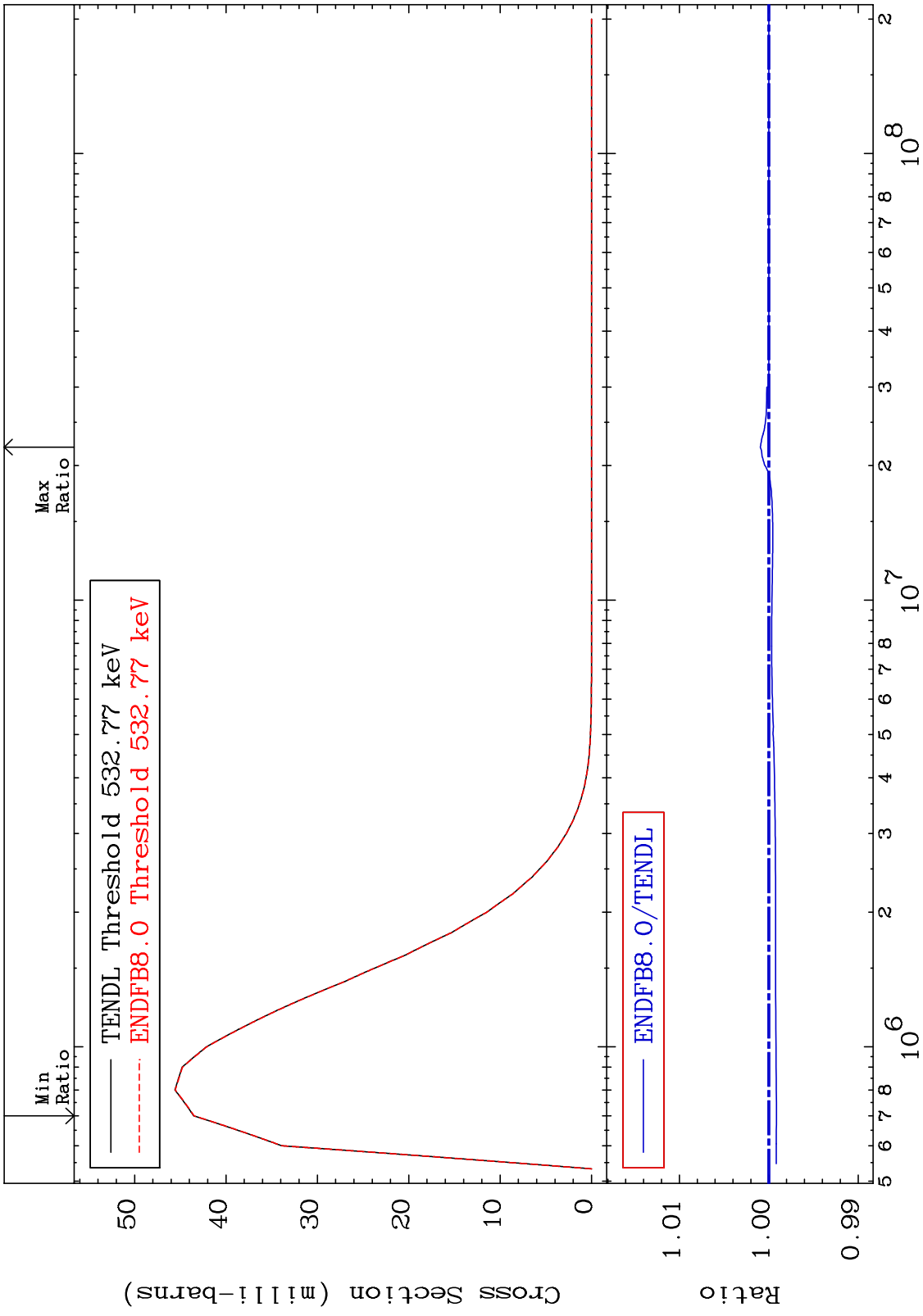
MAT 7834 MT= 68 (n,n') Level Cross Section 78-Pt-193
 -0.580 To 0.000 %



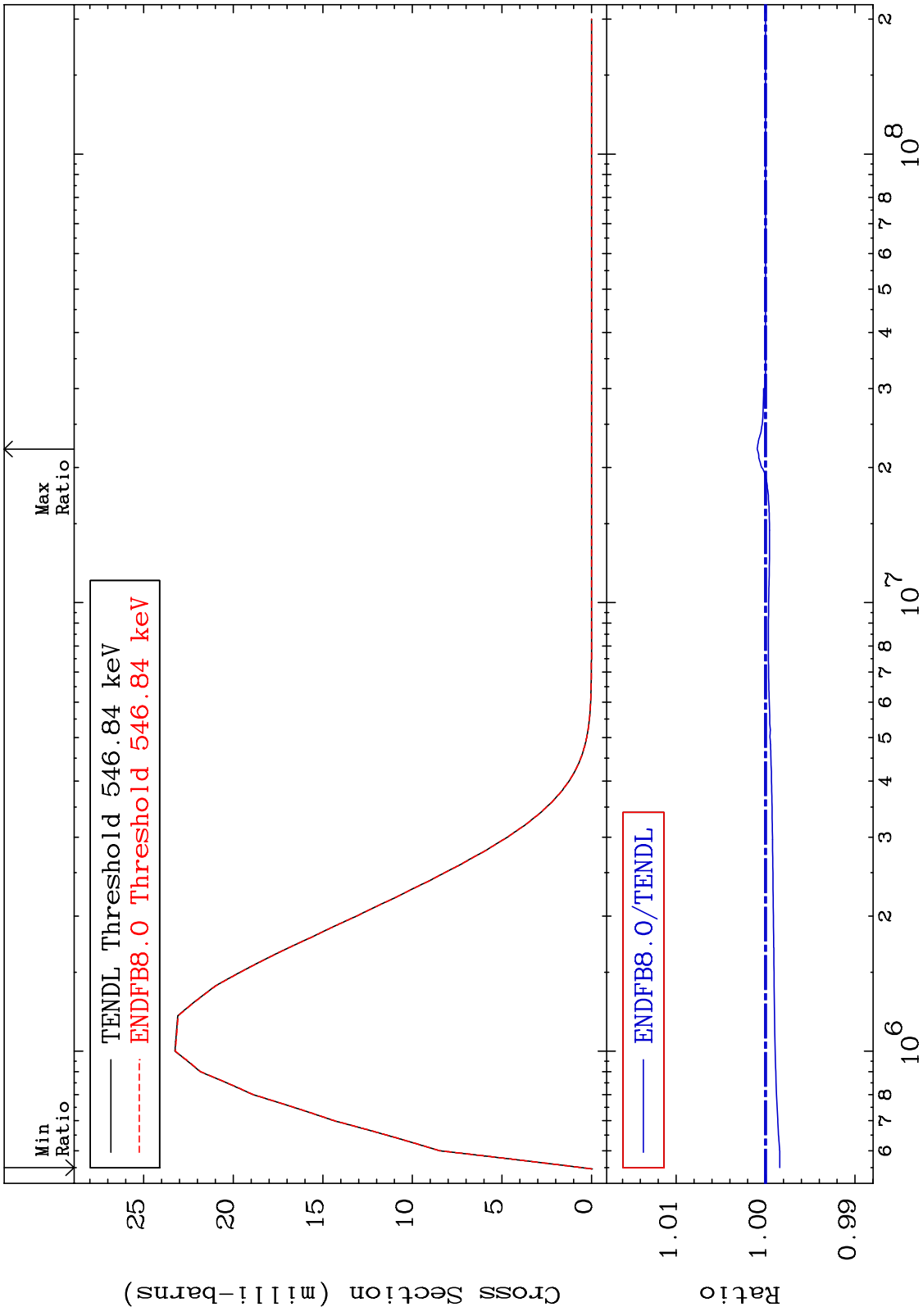
MAT 7834 MT= 69 (n,n') Level Cross Section -0.123 To 0.000 % 78-Pt-193



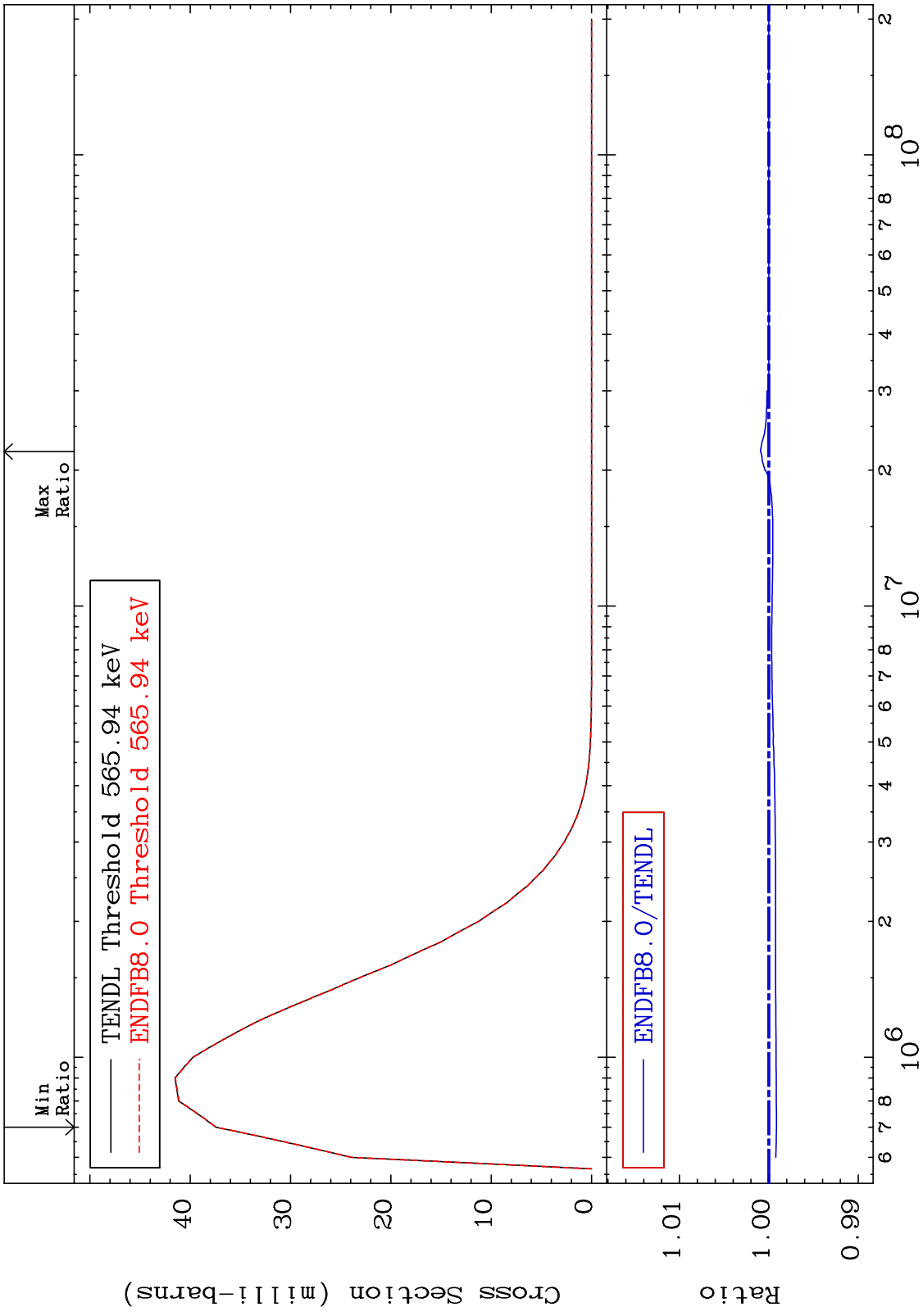
MAT 7834 MT= 70 (n,n') Level Cross Section 78-Pt-193
 -0.087 To 0.094 %



MAT 7834 MT= 71 (n,n') Level Cross Section 78-Pt-193
 -0.158 To 0.094 %

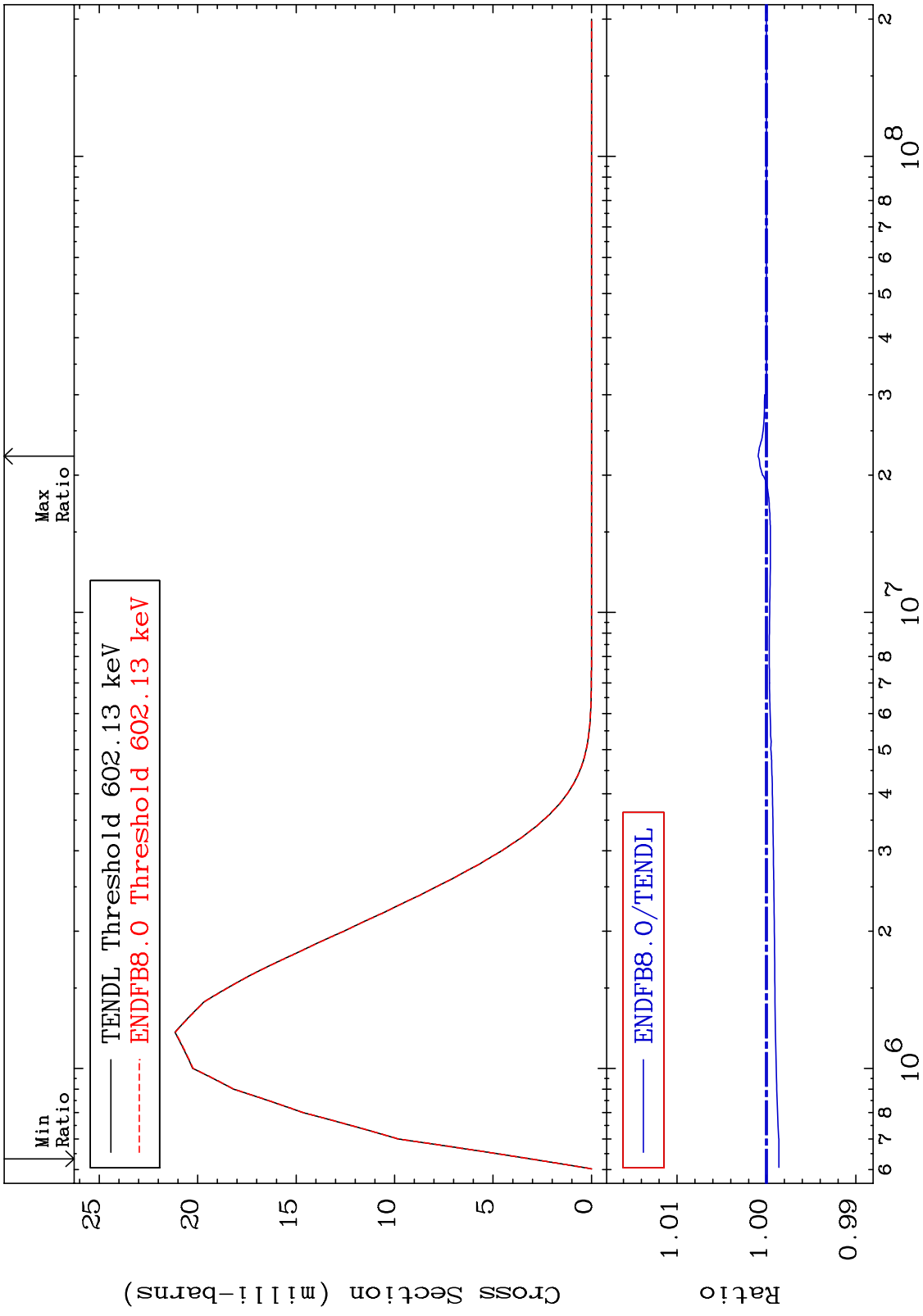


MAT 7834 MT= 72 (n,n') Level Cross Section 78-Pt-193
-0.084 To 0.094 %

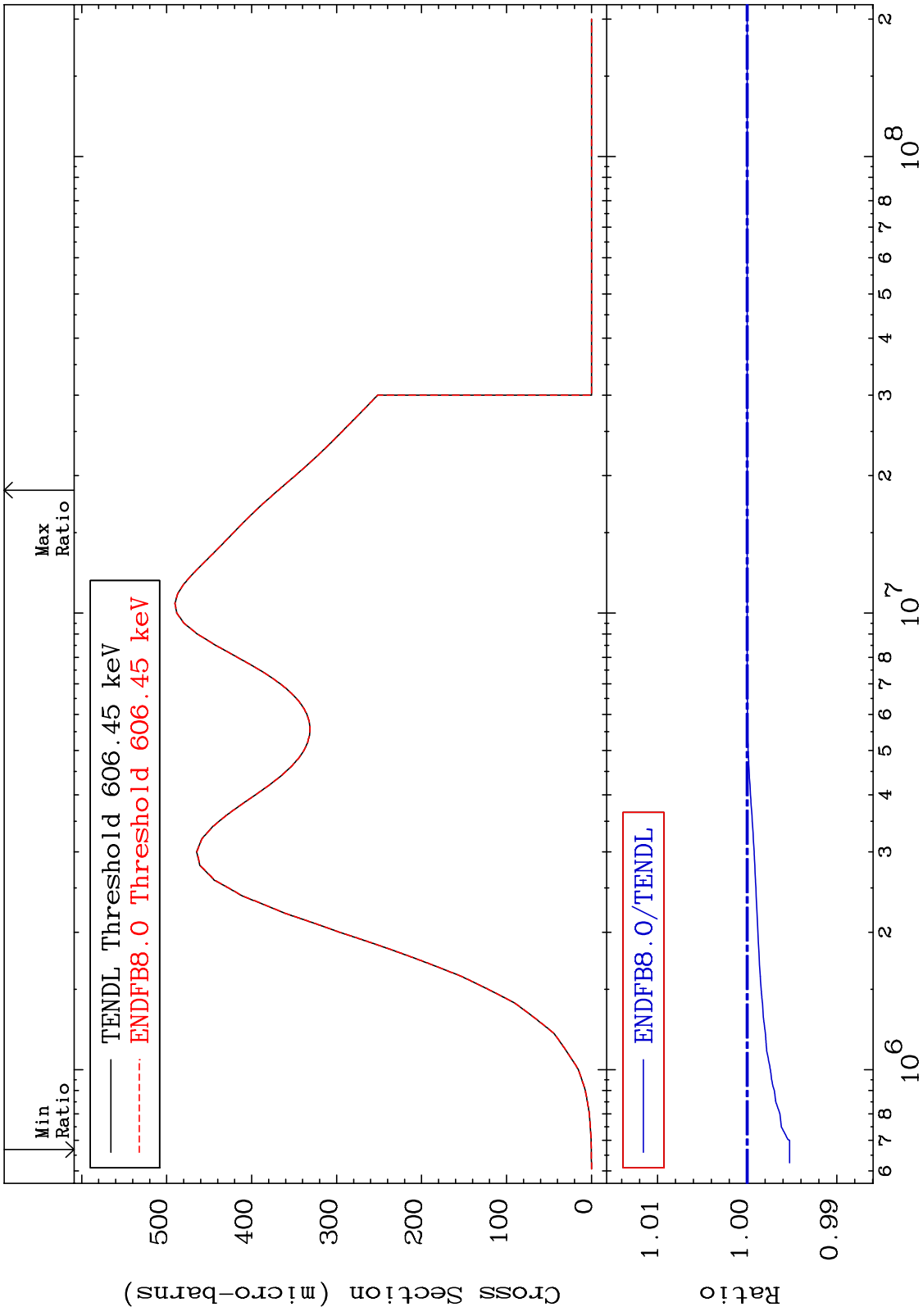


40 Incident Energy (eV) 78-Pt-193

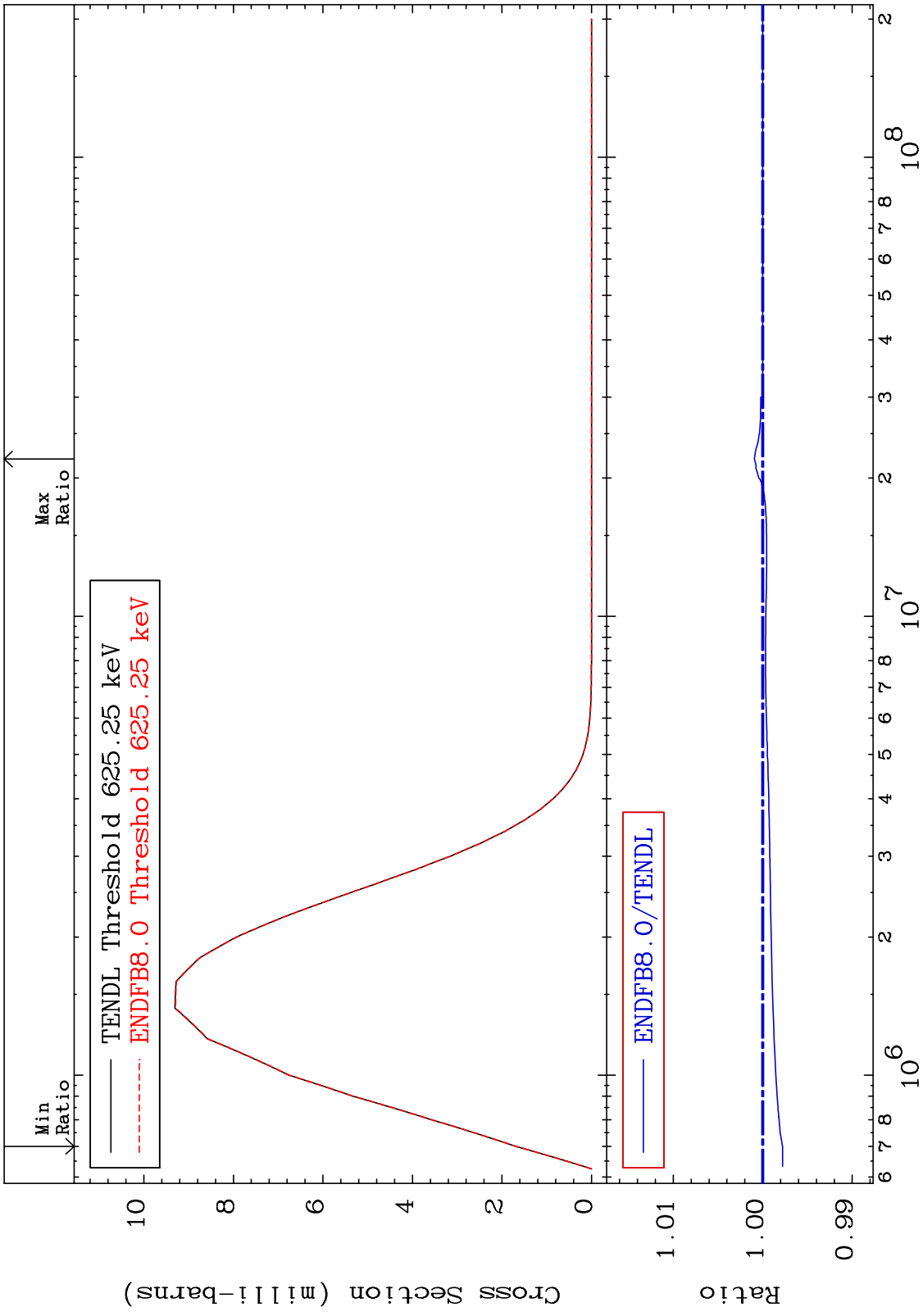
MAT 7834 MT= 73 (n,n') Level Cross Section 78-Pt-193
 -0.138 To 0.094 %



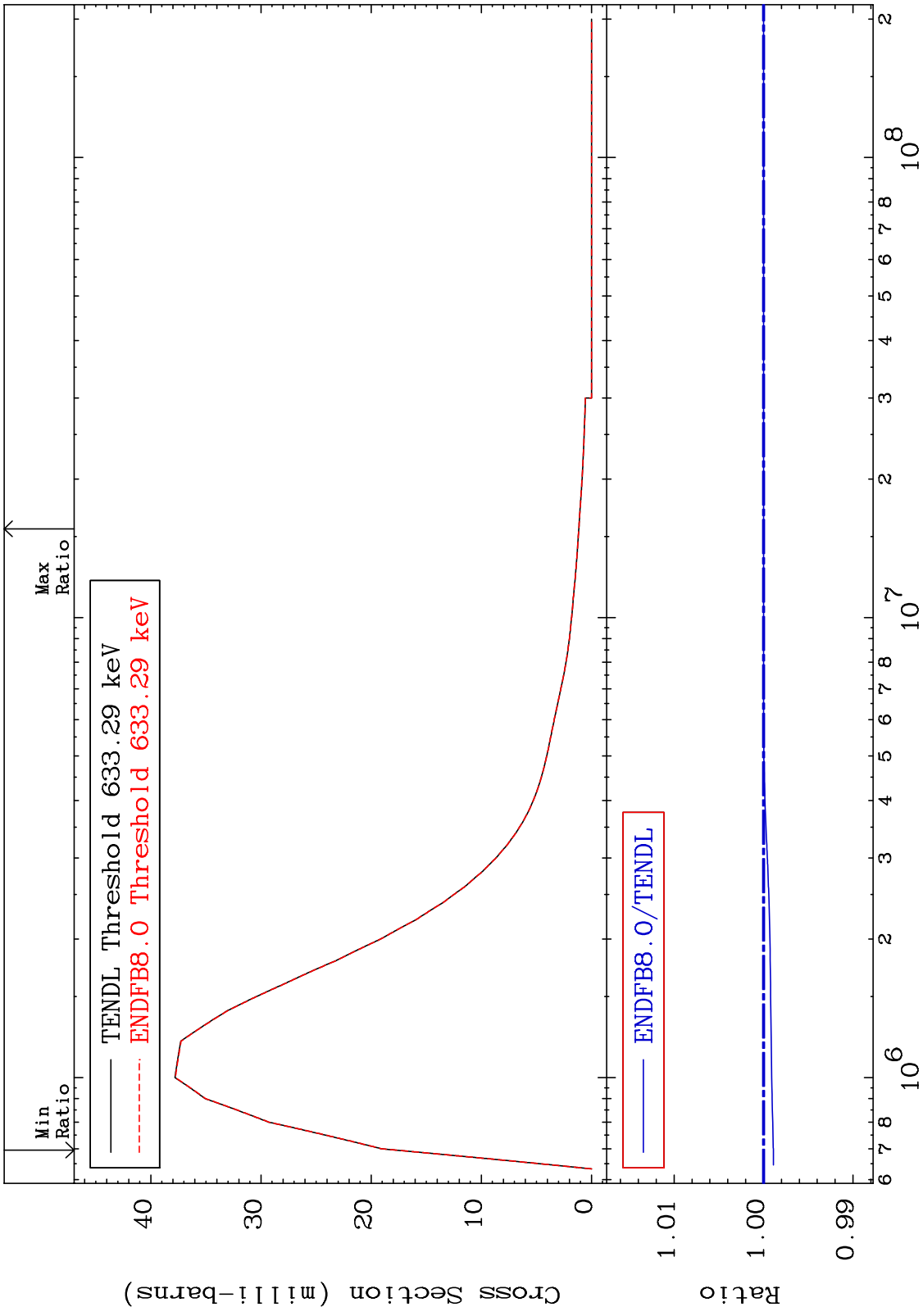
MAT 7834 MT= 74 (n,n') Level Cross Section 78-Pt-193
 -0.473 To 0.000 %



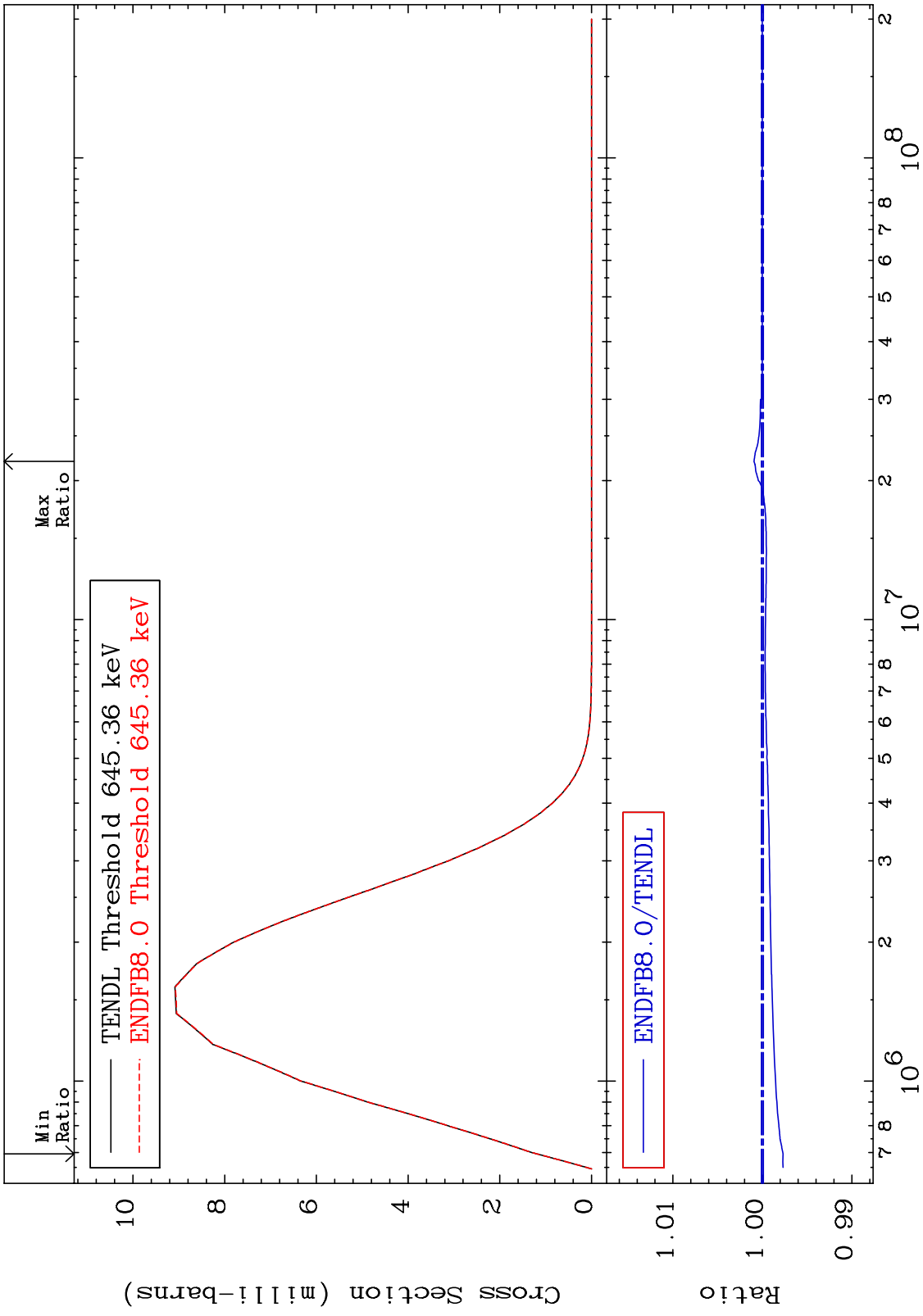
MAT 7834 MT= 75 (n,n') Level Cross Section 78-Pt-193
 -0.221 To 0.094 %



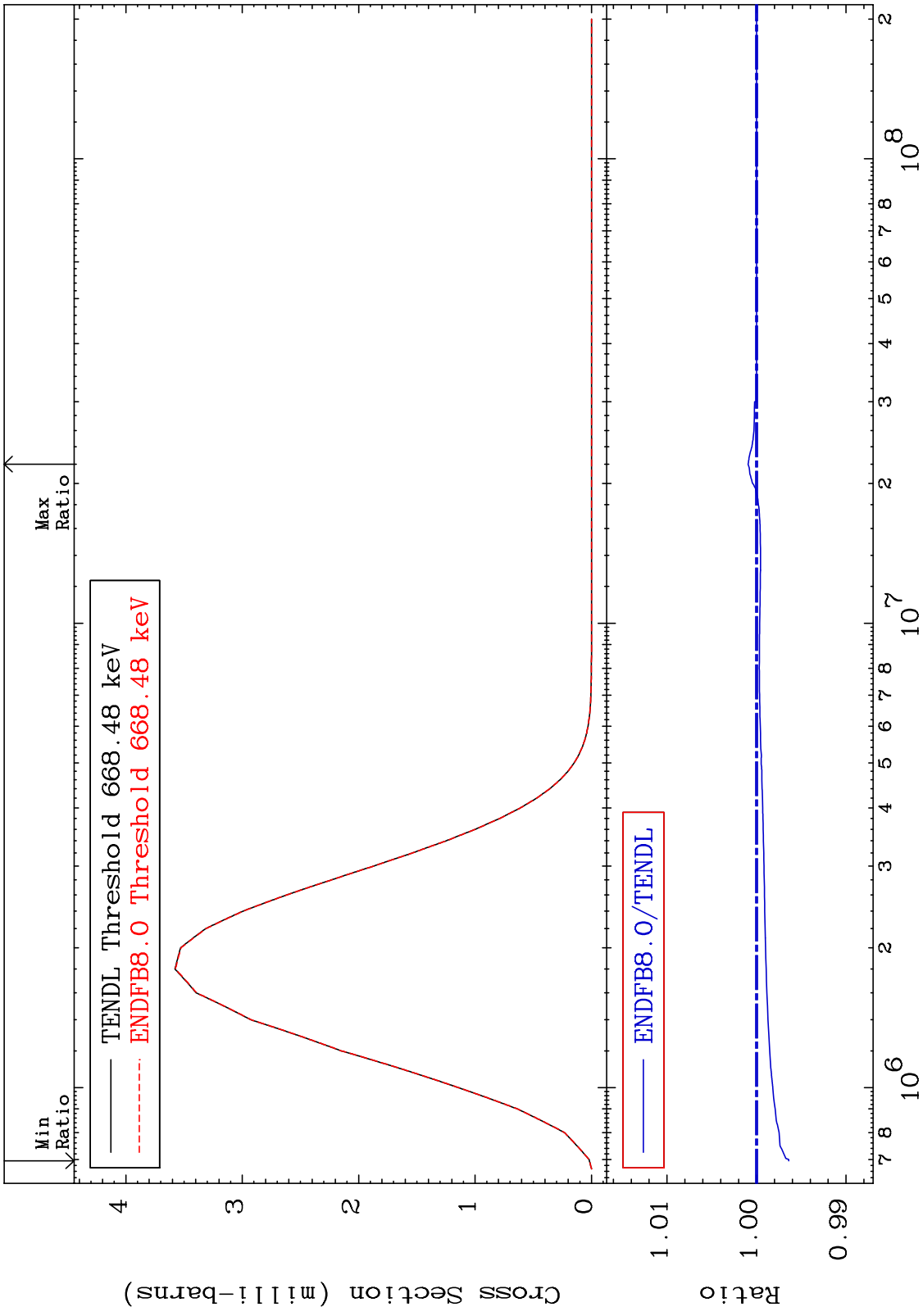
MAT 7834 MT= 76 (n,n') Level Cross Section 78-Pt-193
 -0.109 To 0.000 %



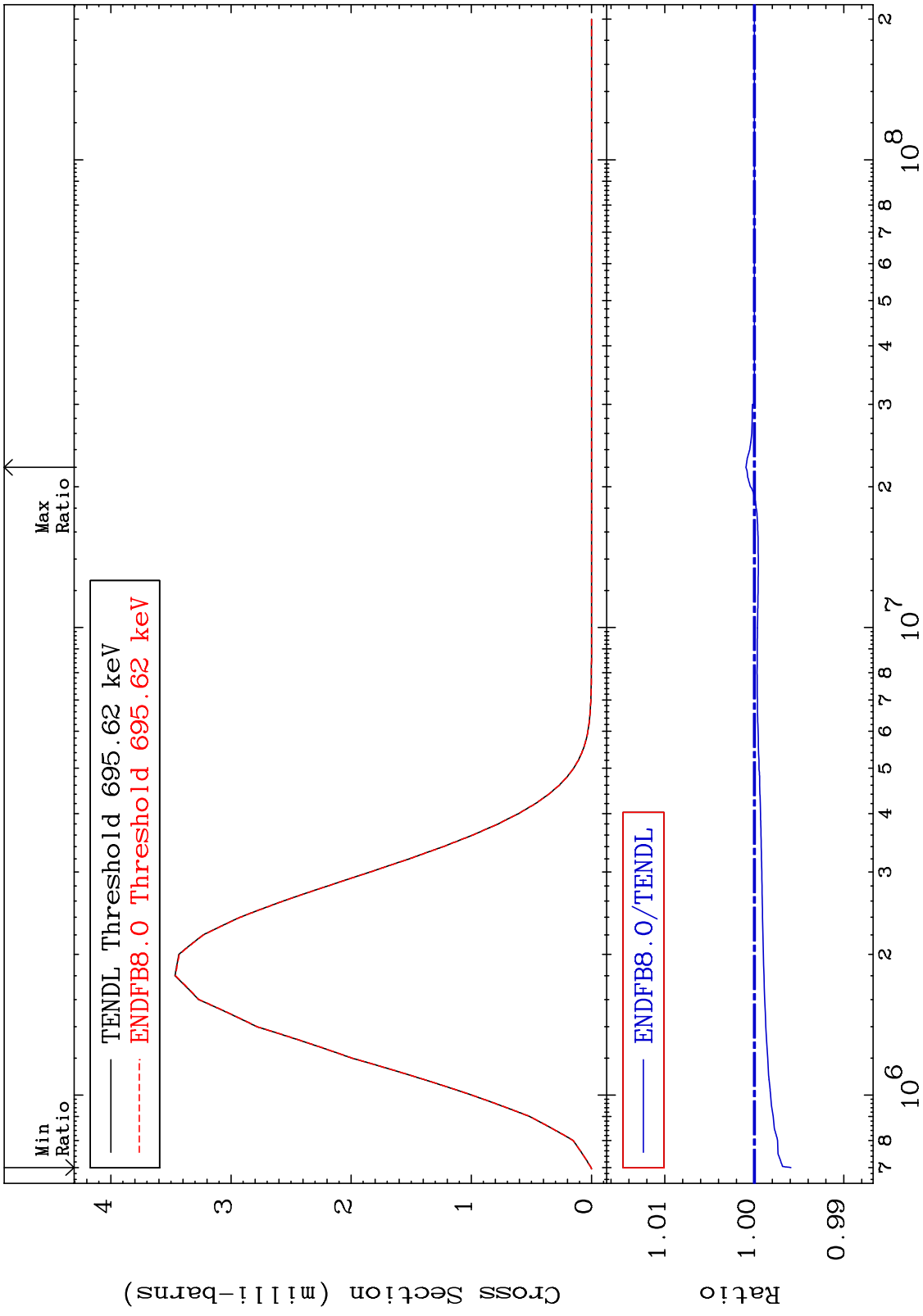
MAT 7834 MT= 77 (n,n') Level Cross Section 78-Pt-193
 -0.230 To 0.094 %



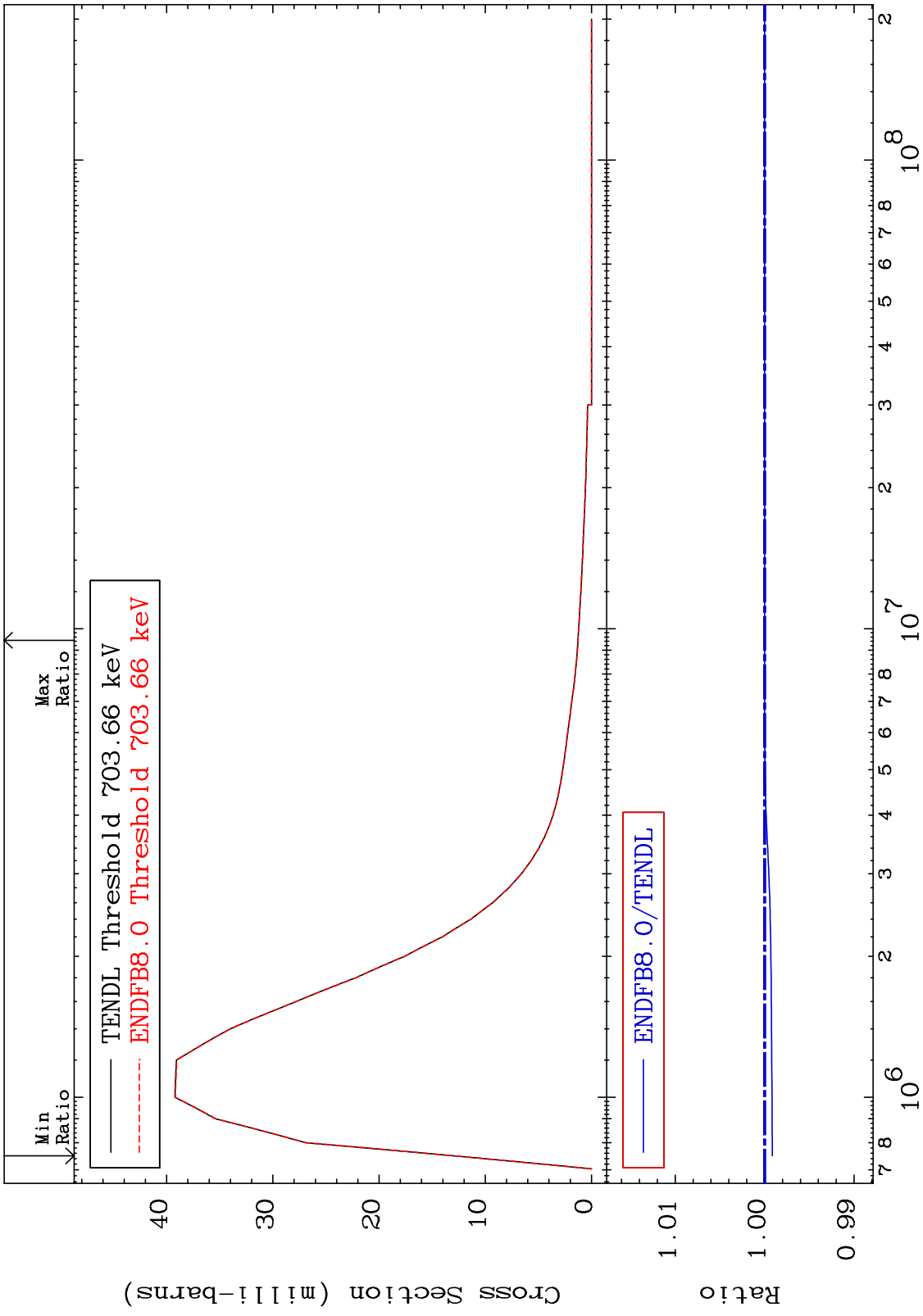
MAT 7834 MT= 78 (n,n') Level Cross Section 78-Pt-193
 -0.360 To 0.094 %



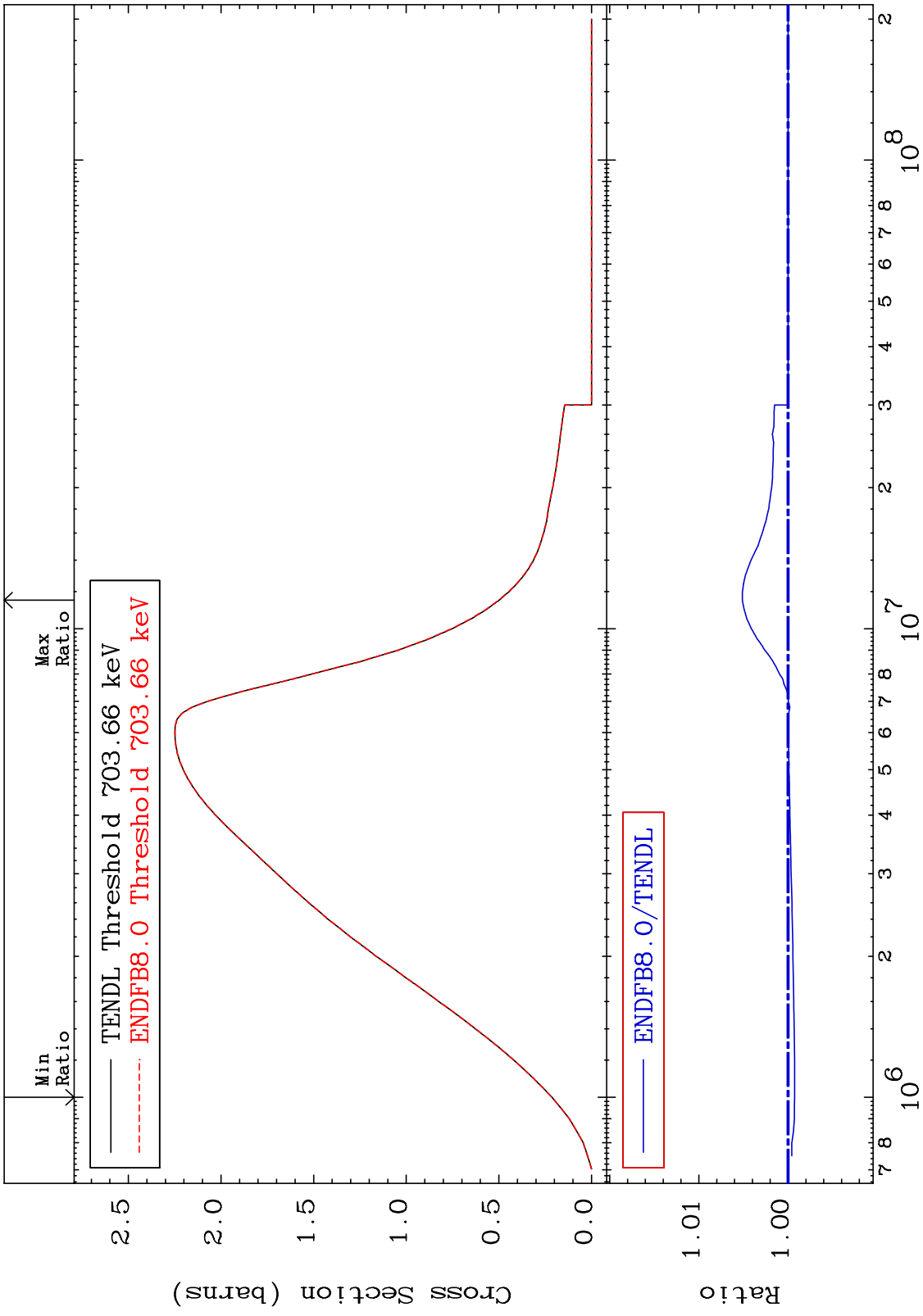
MAT 7834 MT= 79 (n,n') Level Cross Section 78-Pt-193
 -0.409 To 0.094 %



MAT 7834 MT= 80 (n,n') Level Cross Section 78-Pt-193
-0.085 To 0.000 %



MAT 7834 (n, n') Continuum Cross Section 78-Pt-193
 -0.073 To 0.513 %



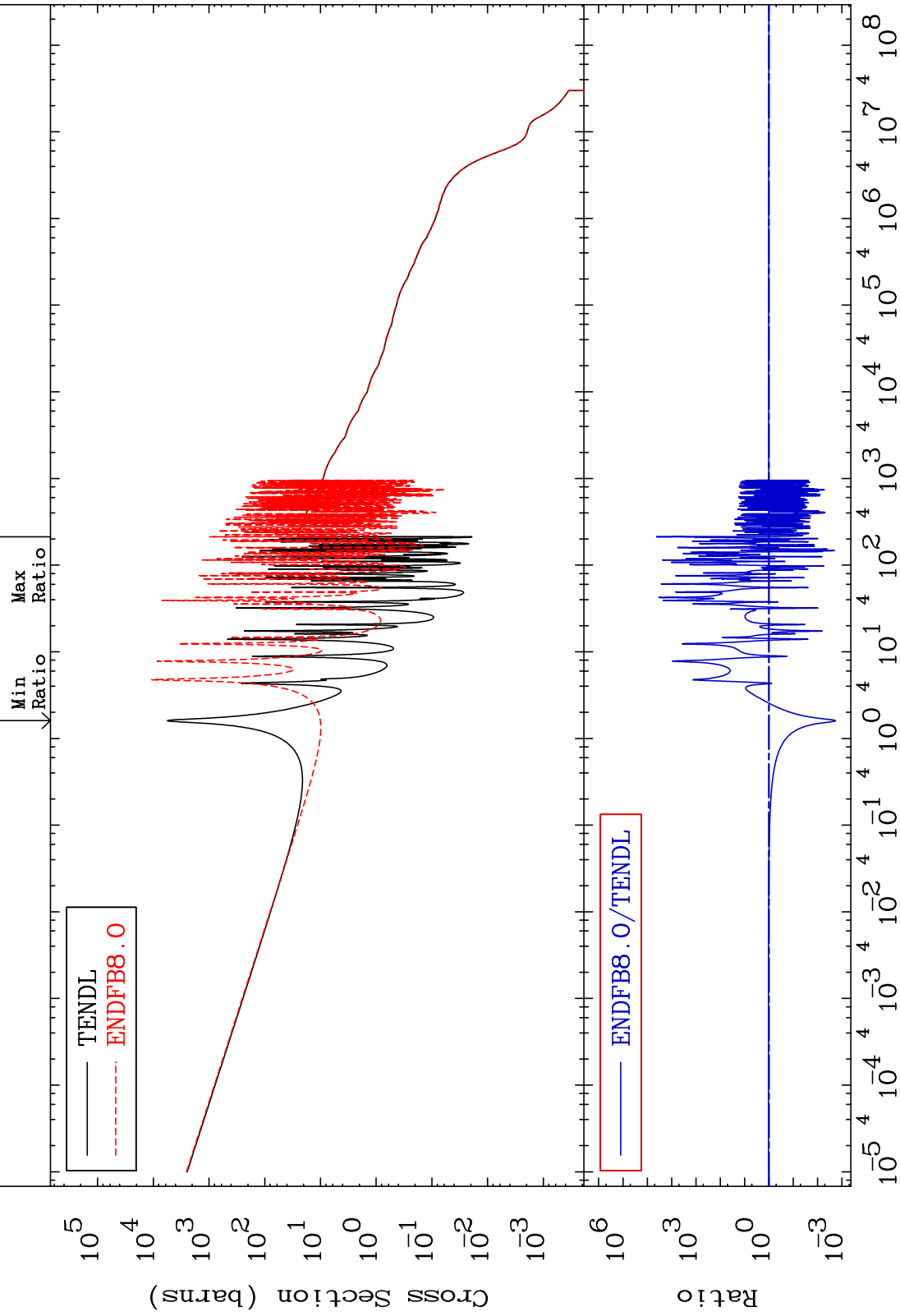
MAT 7834

(n, γ)

78-Pt-193

-99.82 To 9999. %

Cross Section



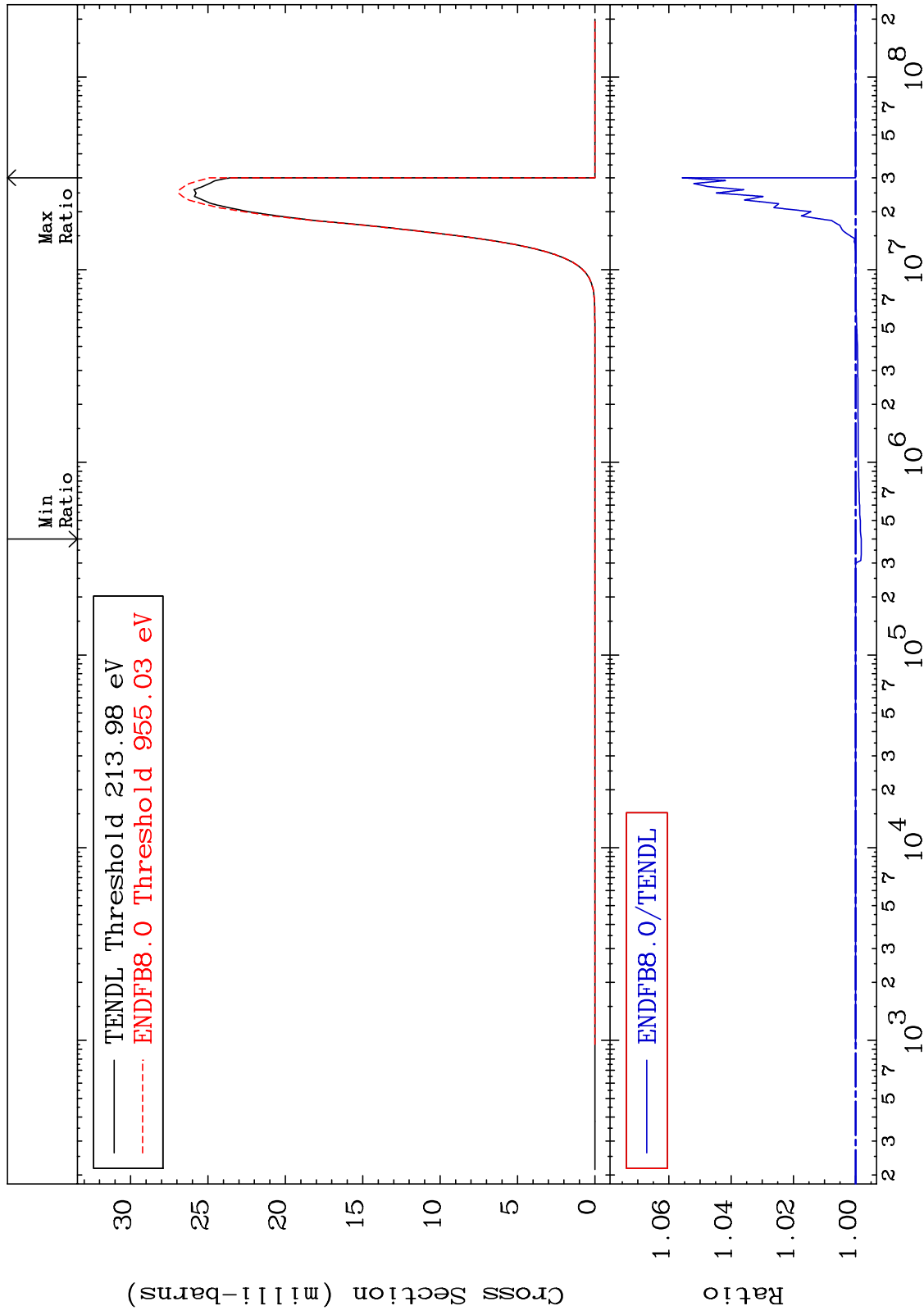
MAT 7834

(n,p)

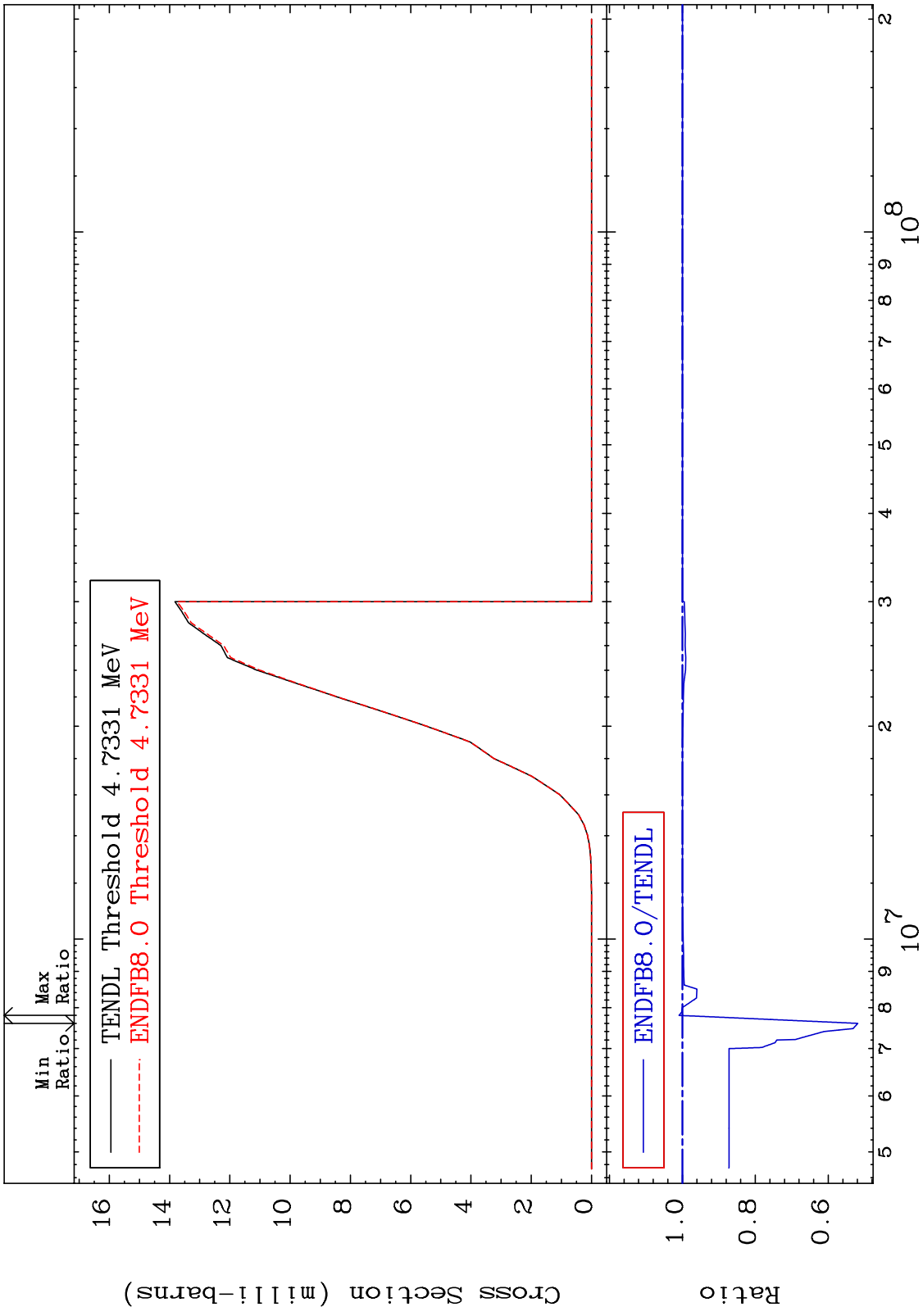
78-Pt-193

Cross Section

-0.183 To 5.565 %



MAT 7834 (n,d) Cross Section 78-Pt-193 -48.12 To 0.915 %



MAT 7834

78-Pt-193

(n, t) -0.167 To 1.239 %

Cross Section

Min Ratio
Max Ratio

TENDL Threshold 4.6736 MeV
ENDFB8.0 Threshold 4.6736 MeV

Cross Section (milli-barns)

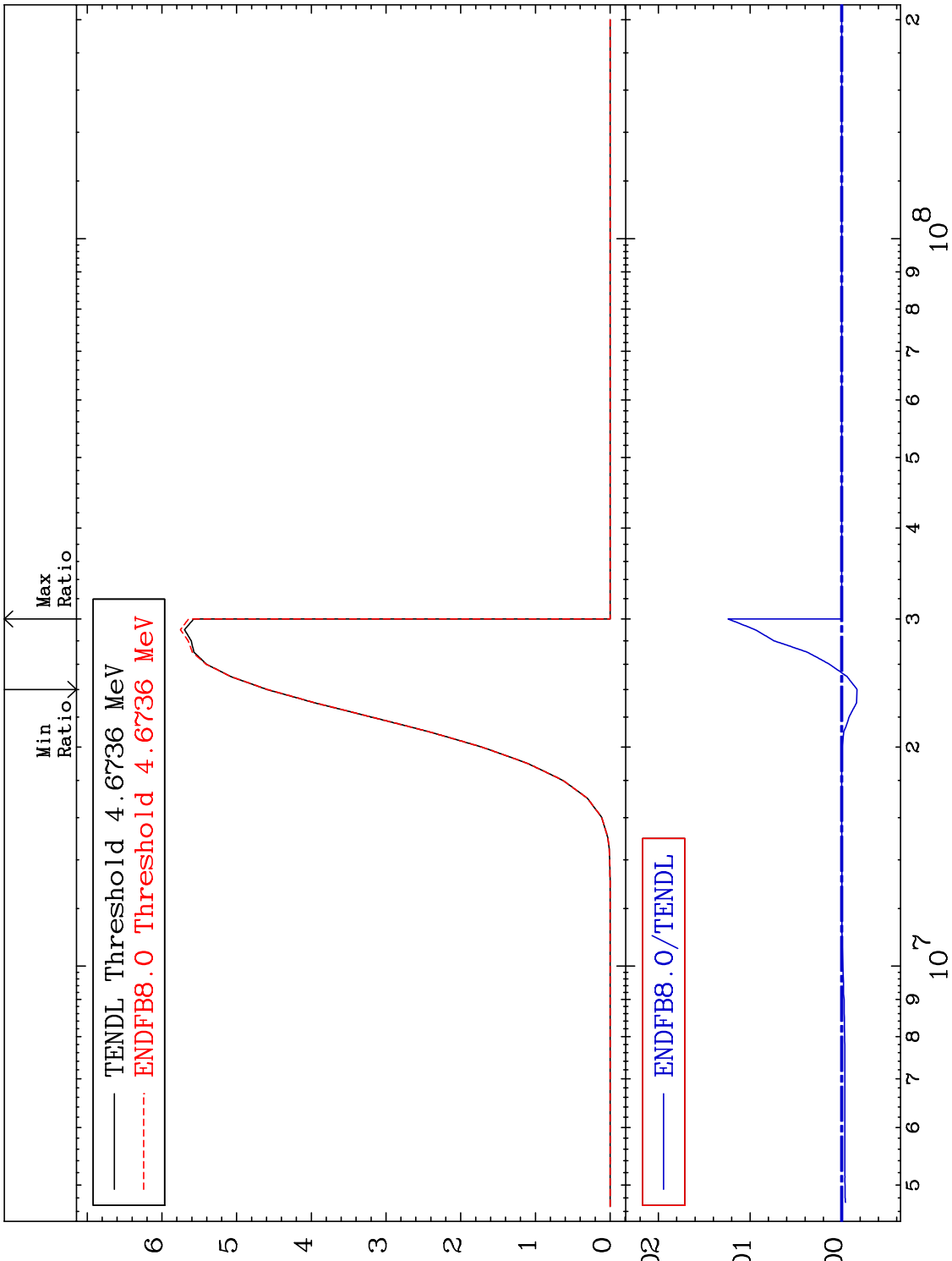
ENDFB8.0/TENDL

Ratio

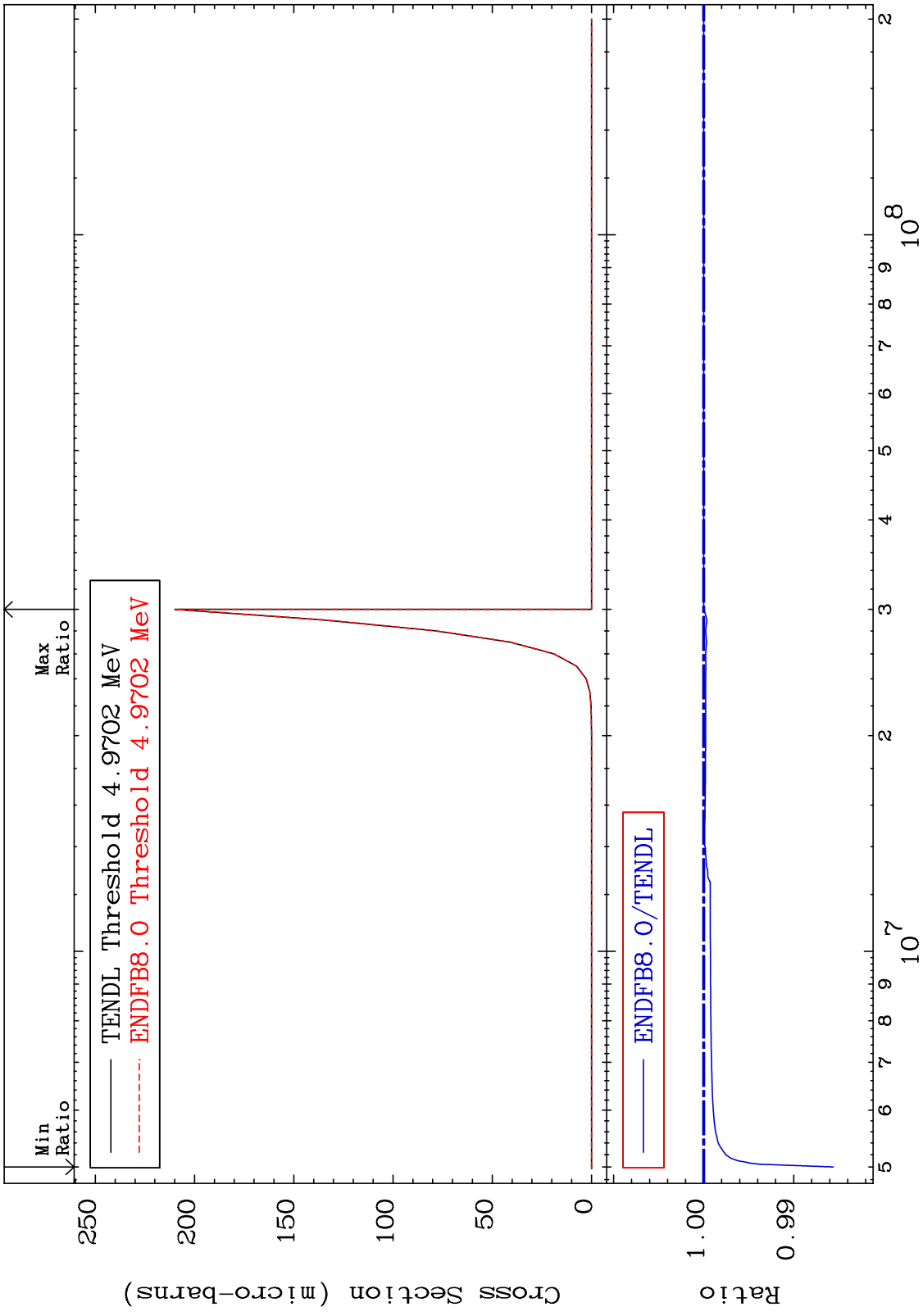
53

Incident Energy (eV)

78-Pt-193



MAT 7834 (n, He-3) 78-Pt-193
 Cross Section -1.439 To 0.000 %



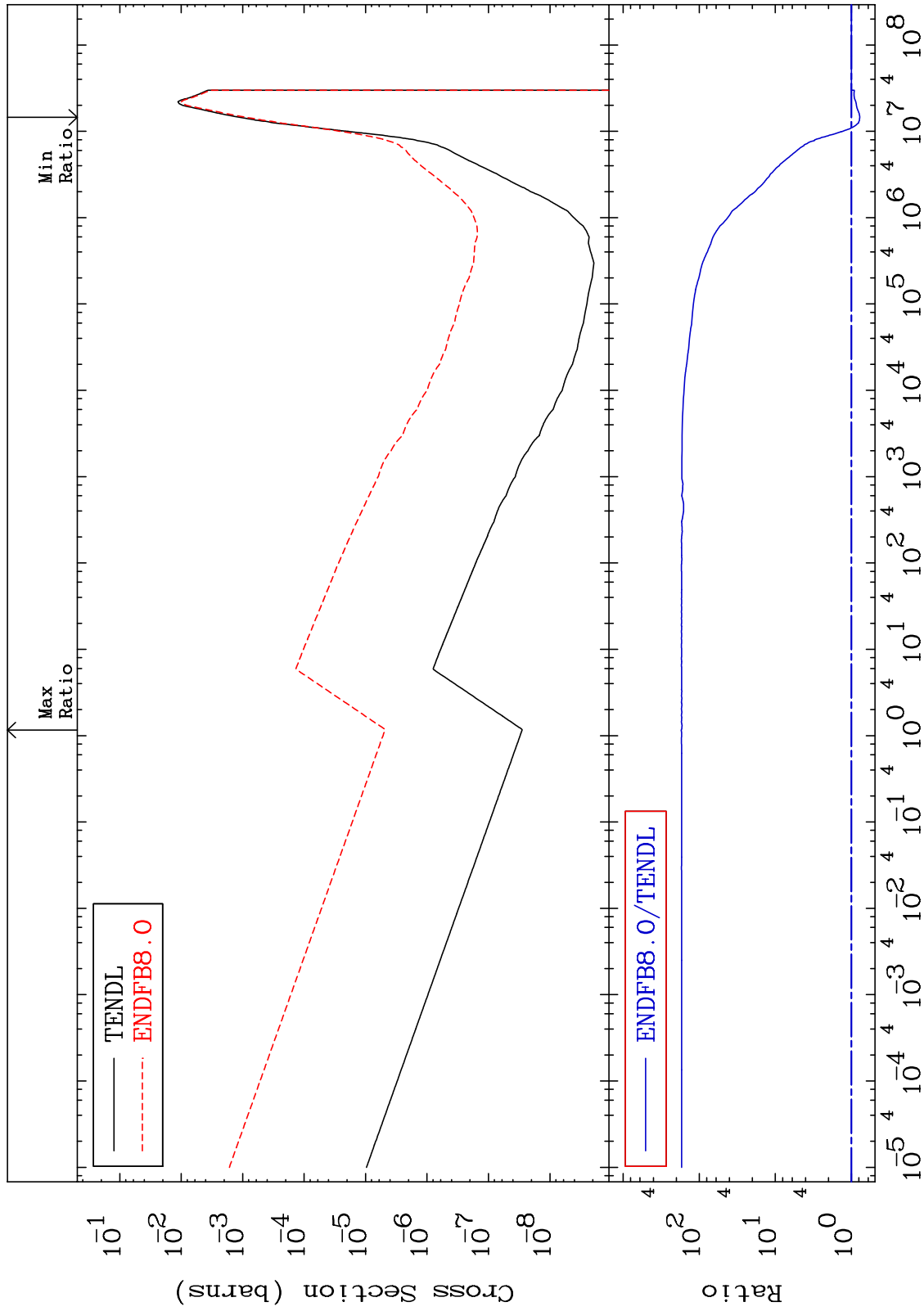
MAT 7834

(n, α)

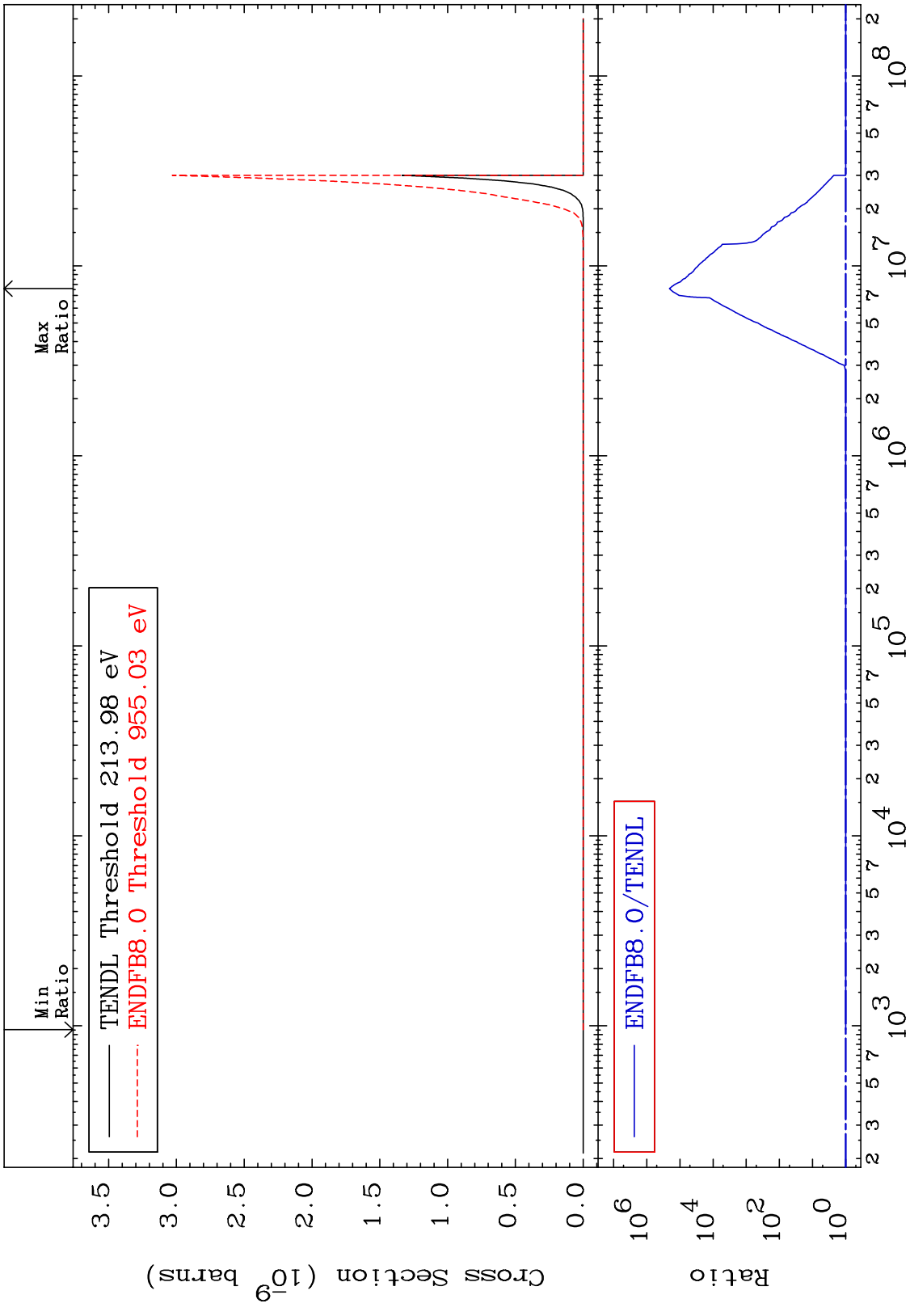
78-Pt-193

-22.26 To 9999. %

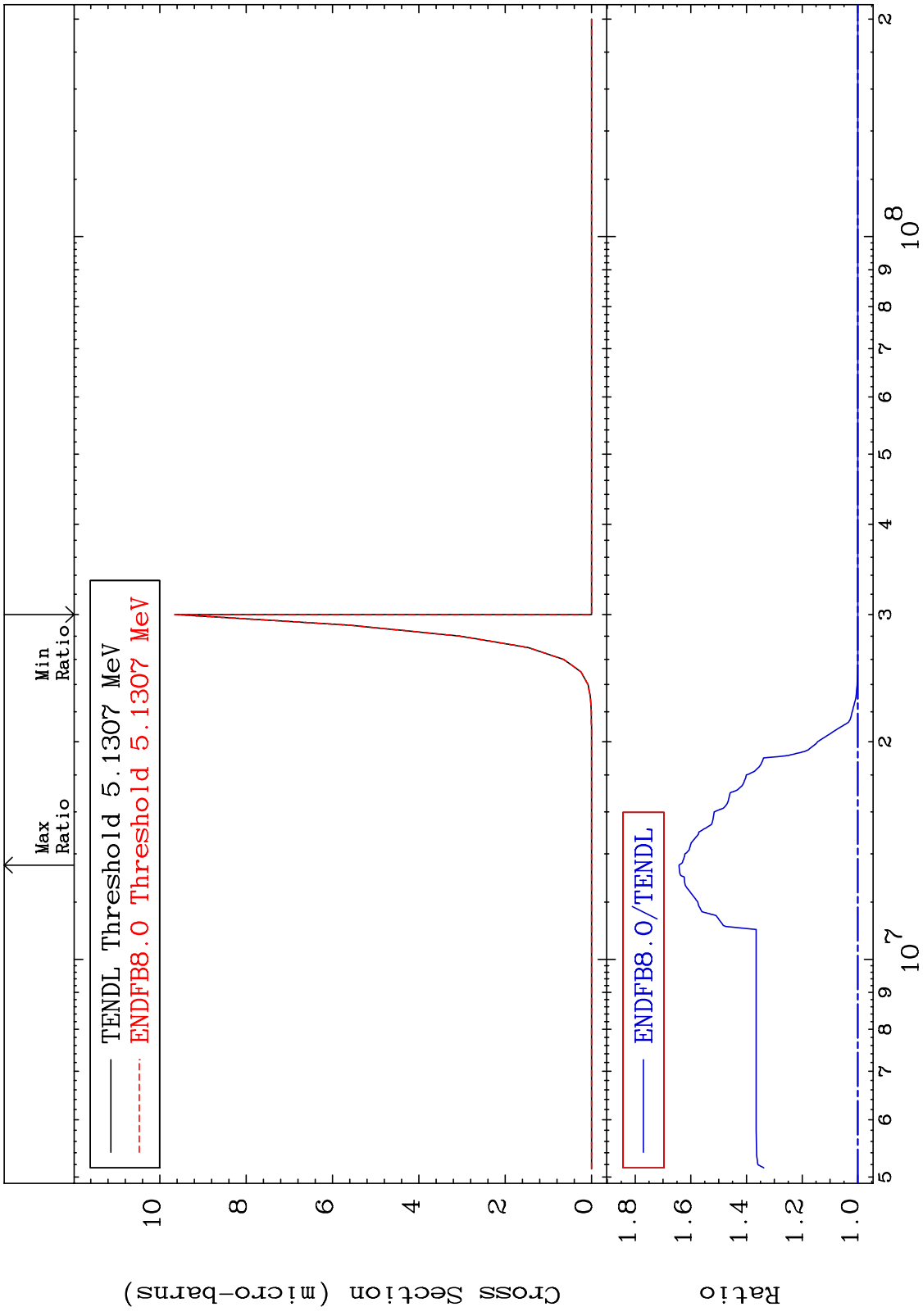
Cross Section



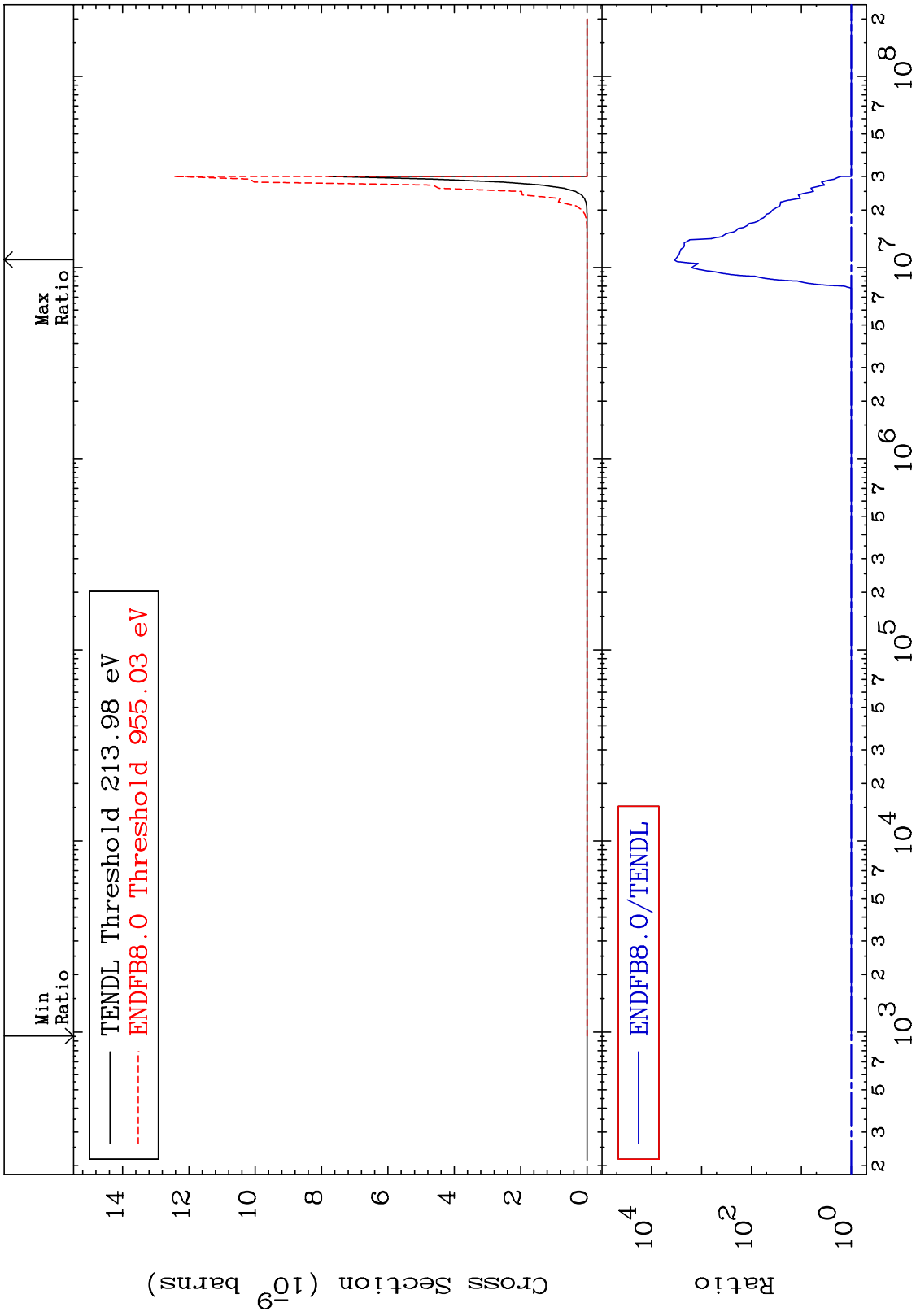
MAT 7834 (n,2α) Cross Section 78-Pt-193 To 9999. %

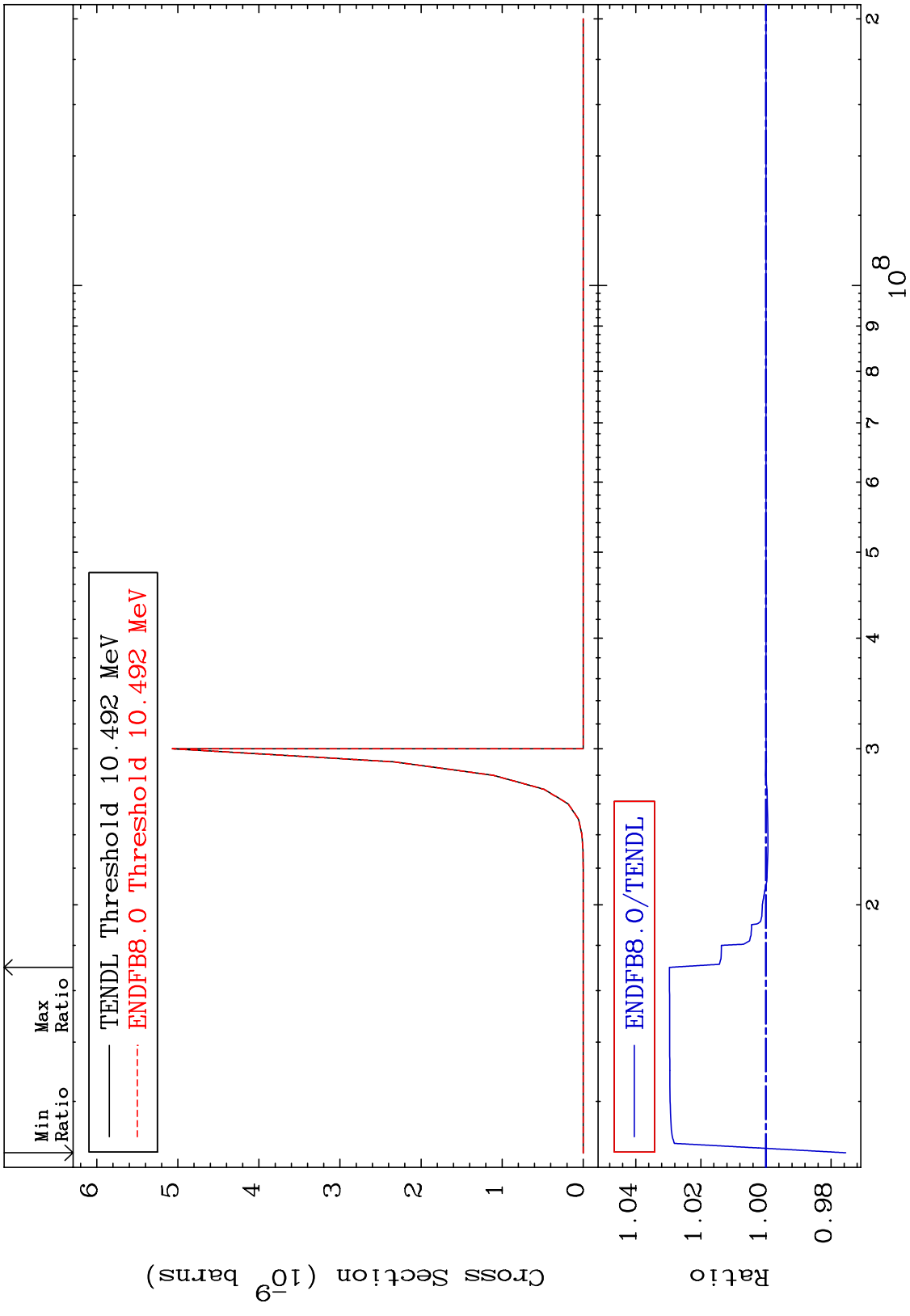


MAT 7834 (n,2p) Cross Section 78-Pt-193 To 64.25 %
 0.000



MAT 7834 (n,p) α 78-Pt-193
 Cross Section To 9999. %





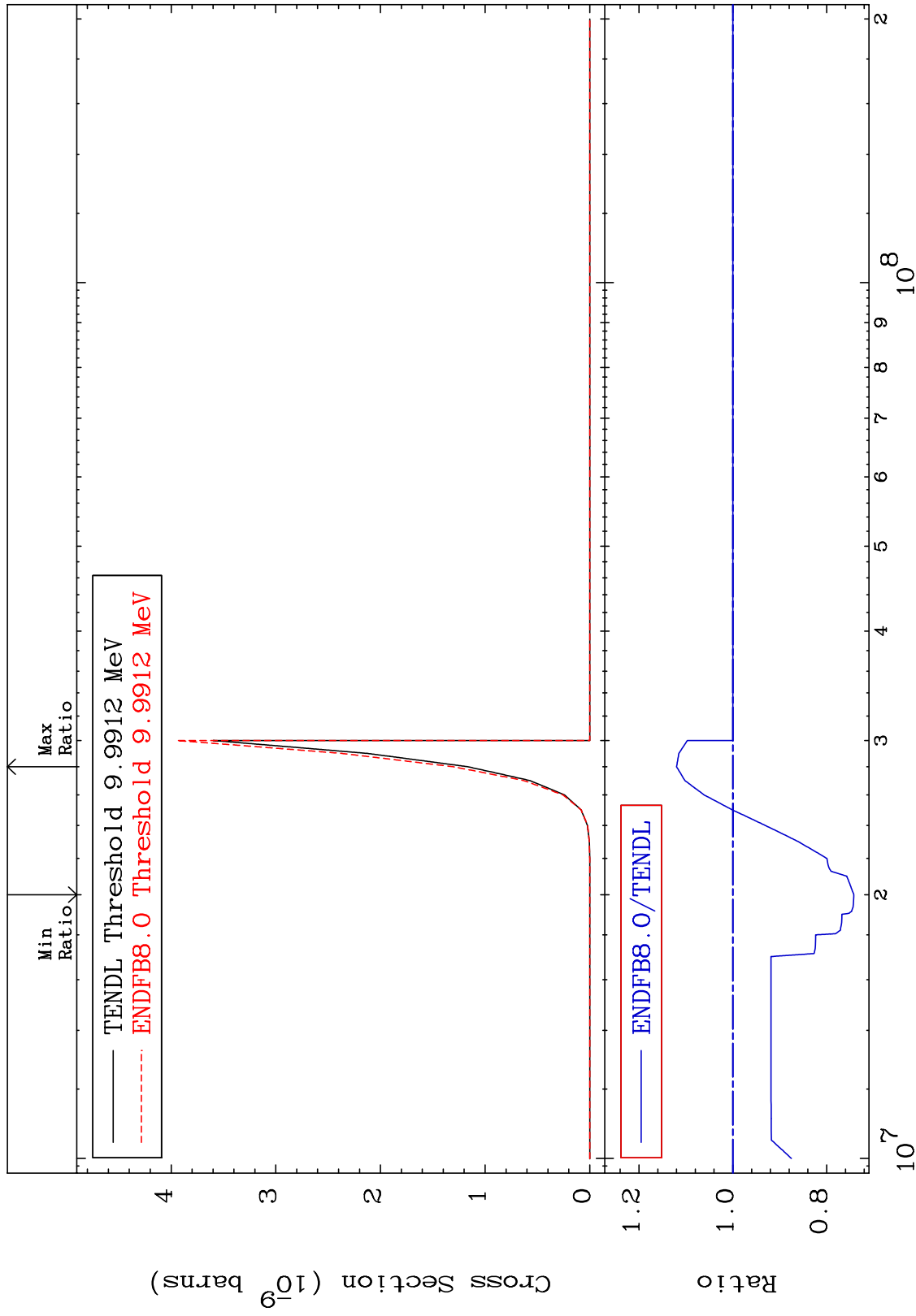
MAT 7834

(n,p) t

78-Pt-193

Cross Section

-25.79 To 11.99 %

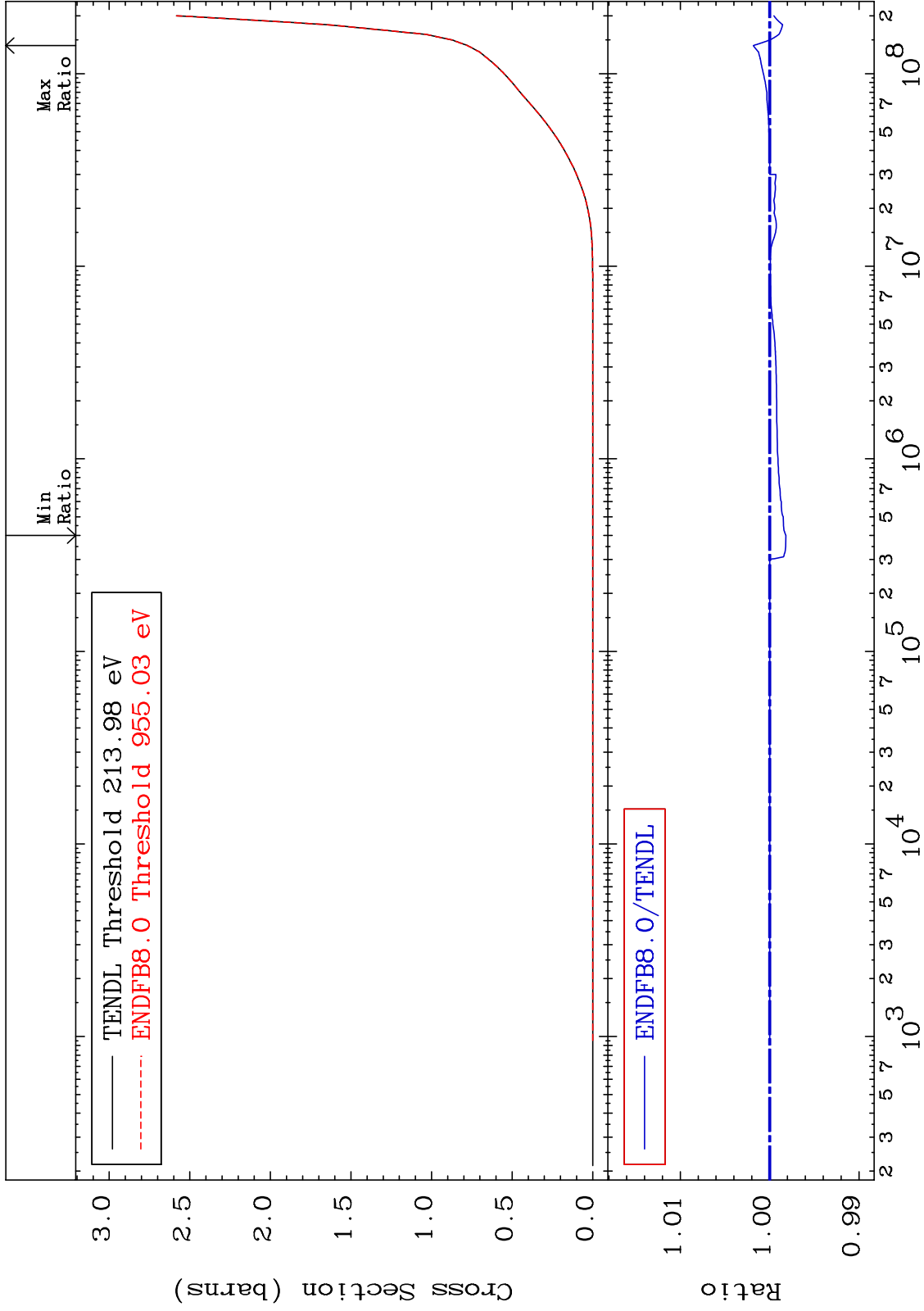


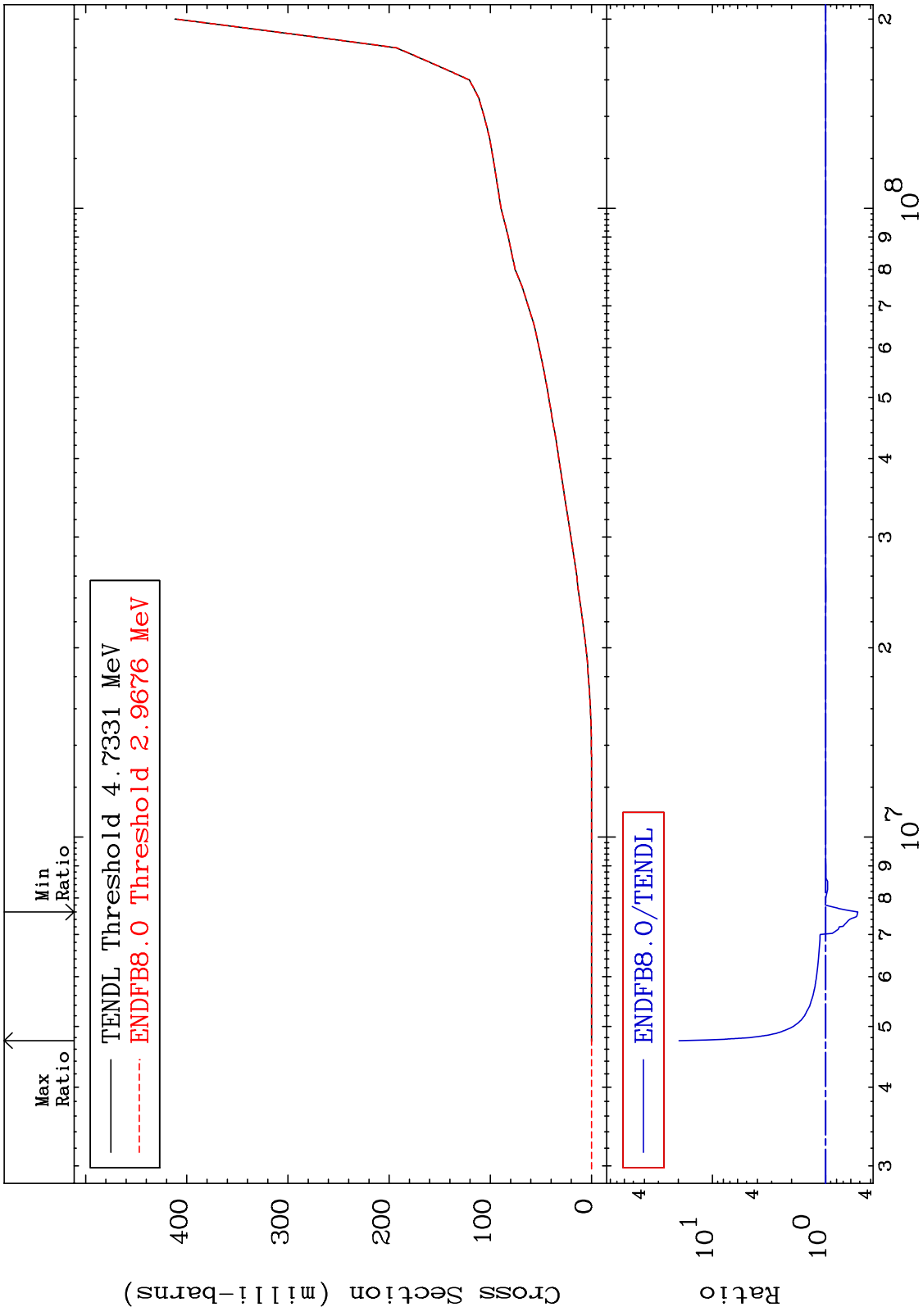
78-Pt-193

MAT 7834

Hydrogen Production
Cross Section

78-Pt-193
-0.182 To 0.184 %

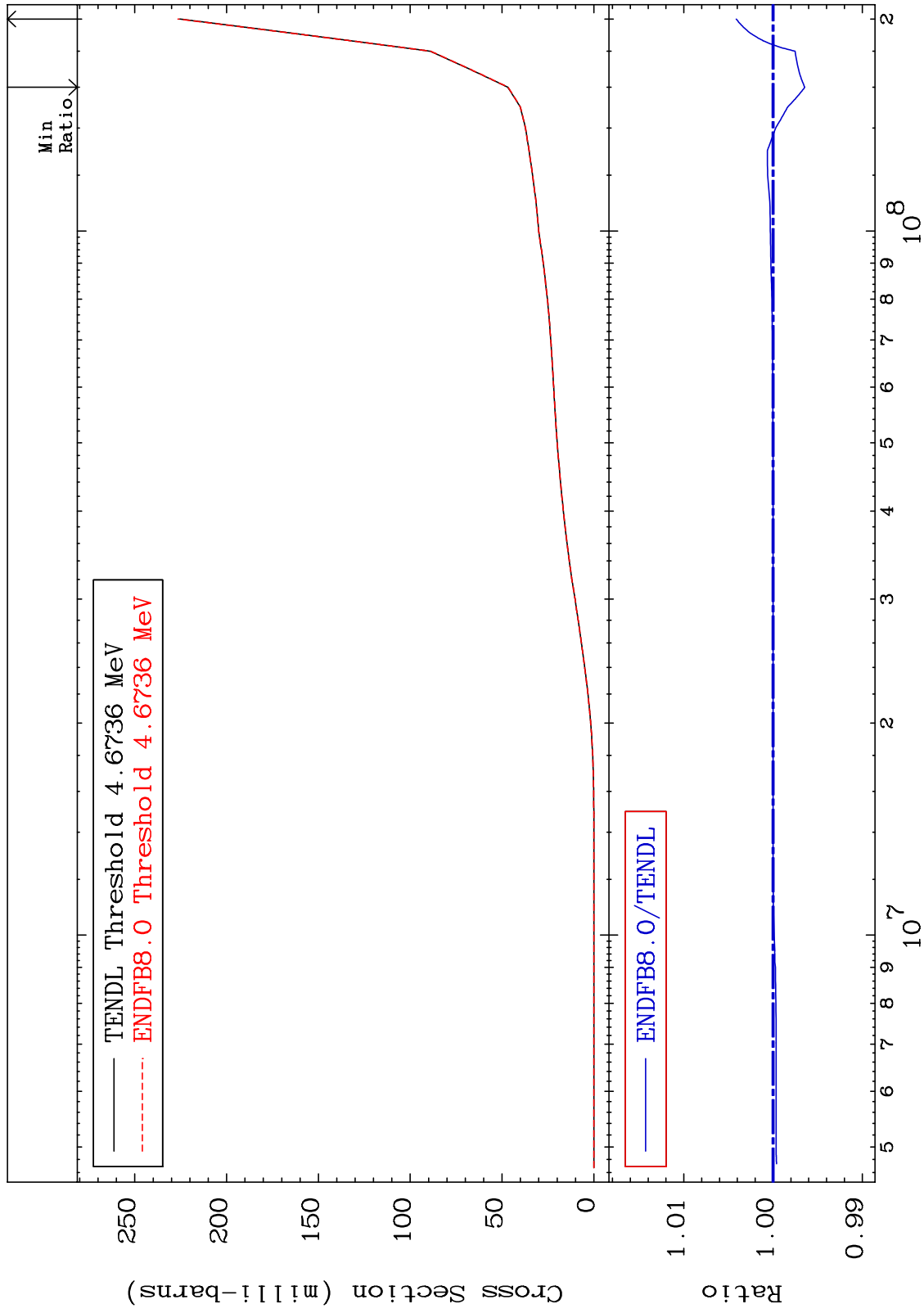




MAT 7834

Tritium Production
Cross Section

78-Pt-193
-0.356 To 0.413 %



63

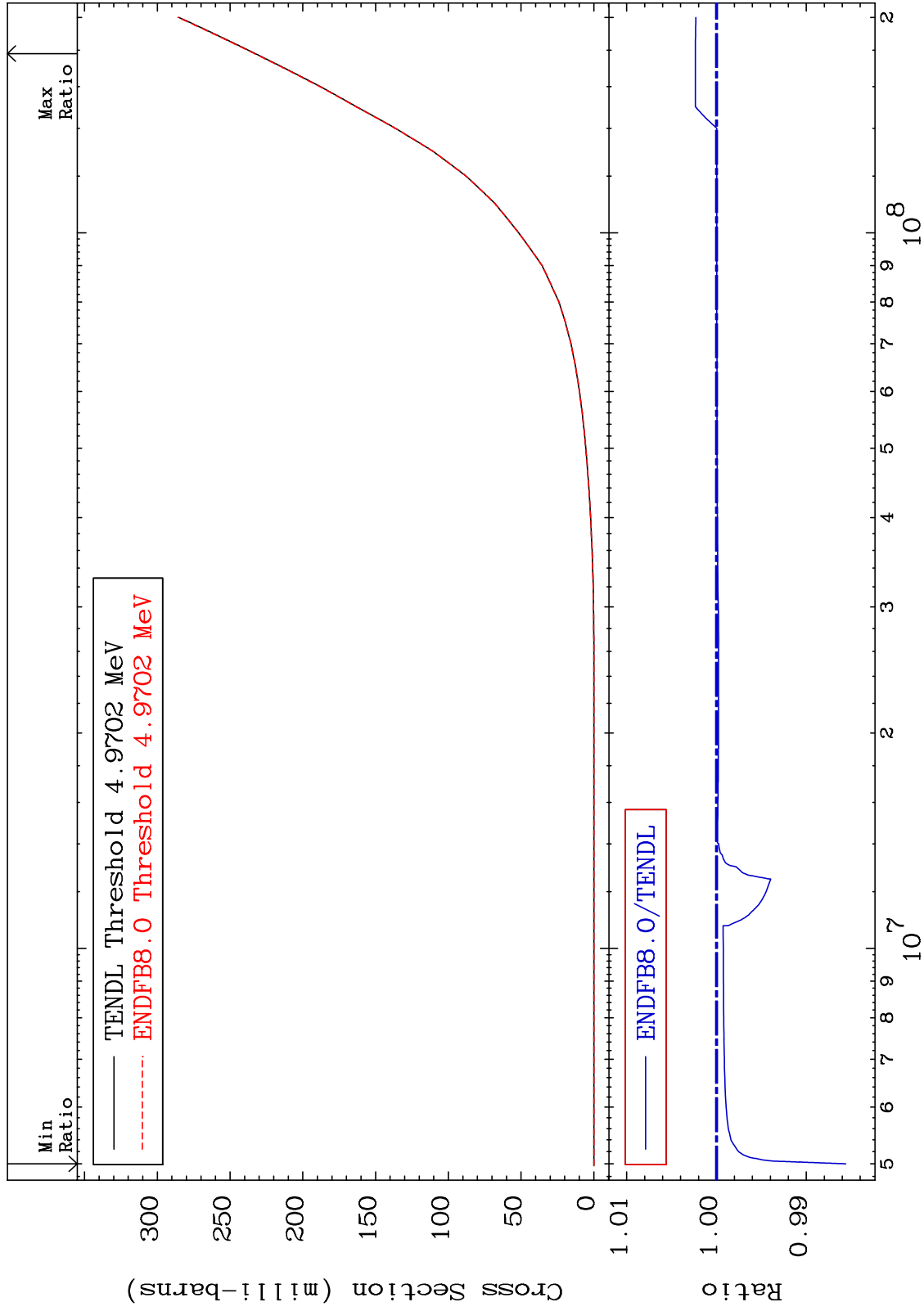
Incident Energy (eV)

78-Pt-193

MAT 7834

He-3 Production
Cross Section

78-Pt-193
-1.439 To 0.236 %



64

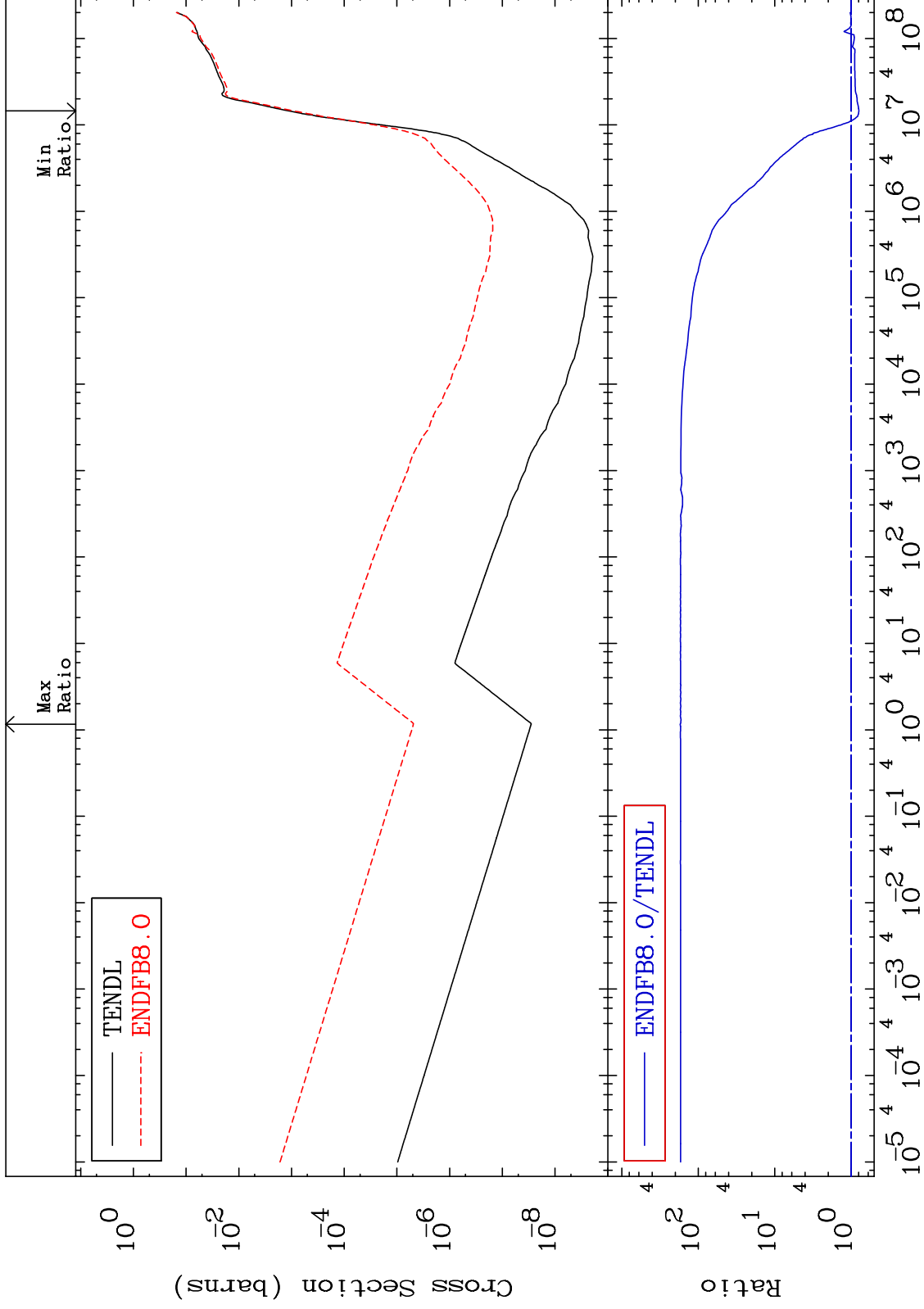
Incident Energy (eV)

78-Pt-193

MAT 7834

He-4 Production
Cross Section

78-Pt-193
-20.71 To 9999. %

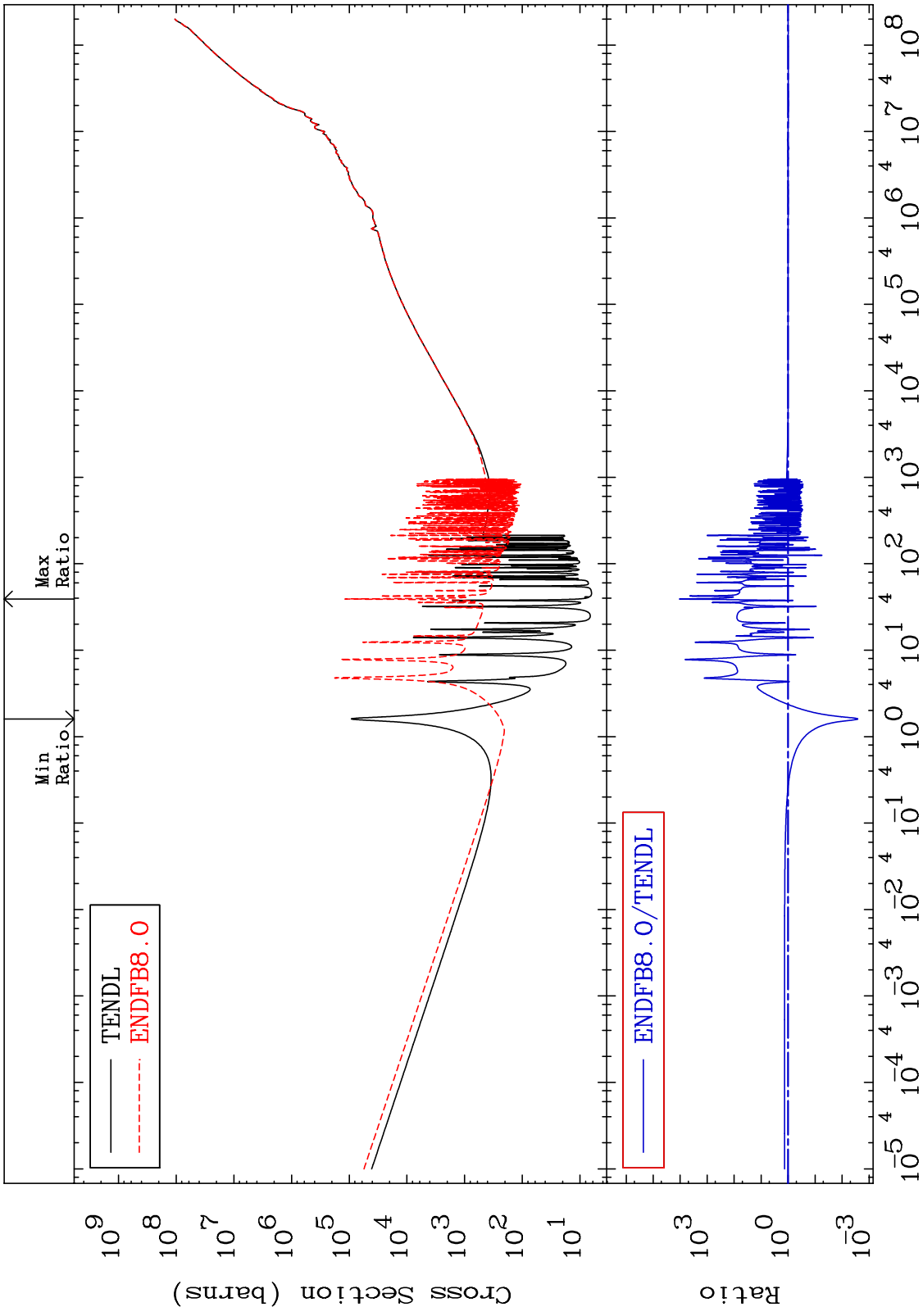


65

Incident Energy (eV)

78-Pt-193

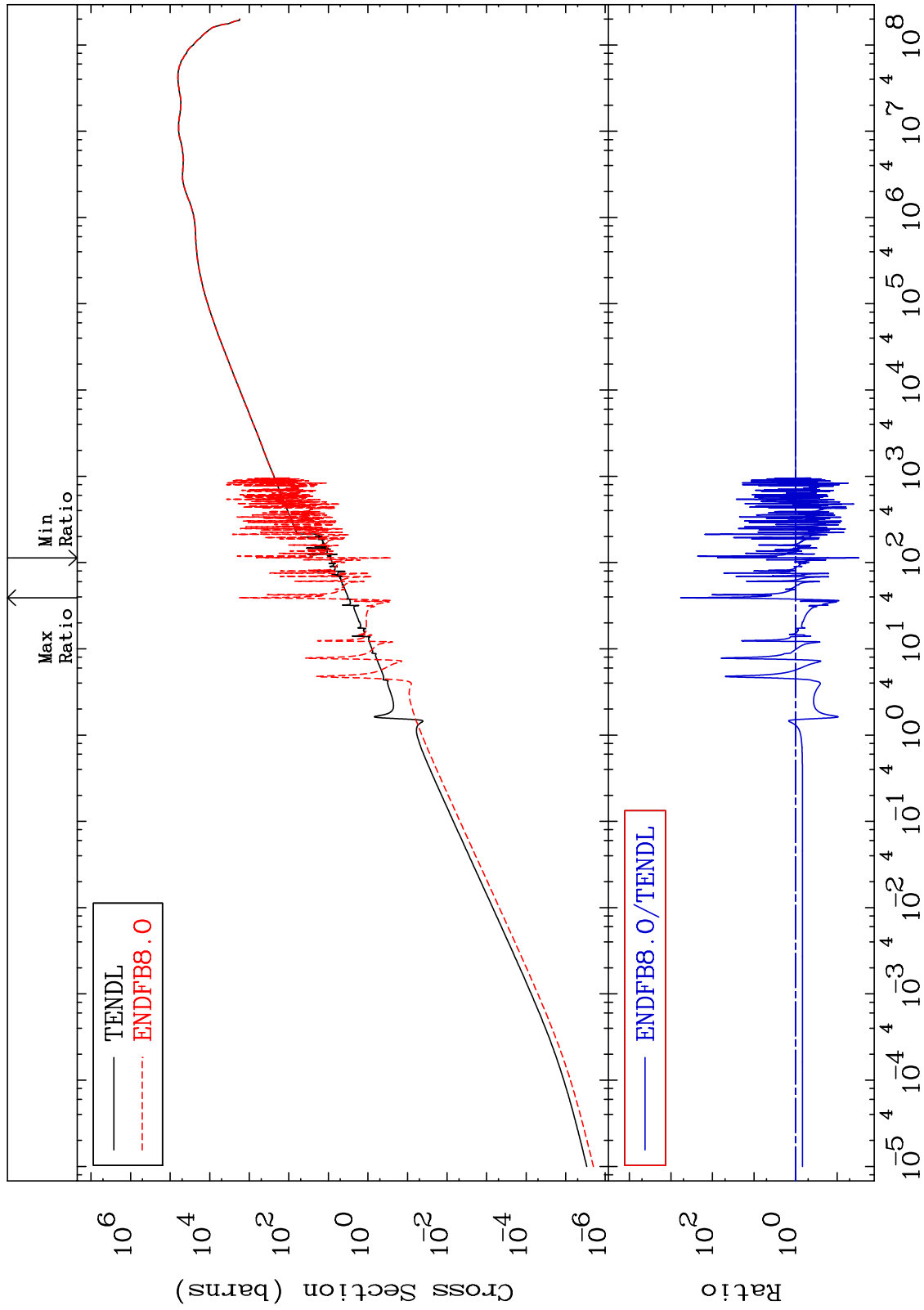
MAT 7834 Kerma total (eV-barns) 78-Pt-193
 Cross Section -99.74 To 9999. %



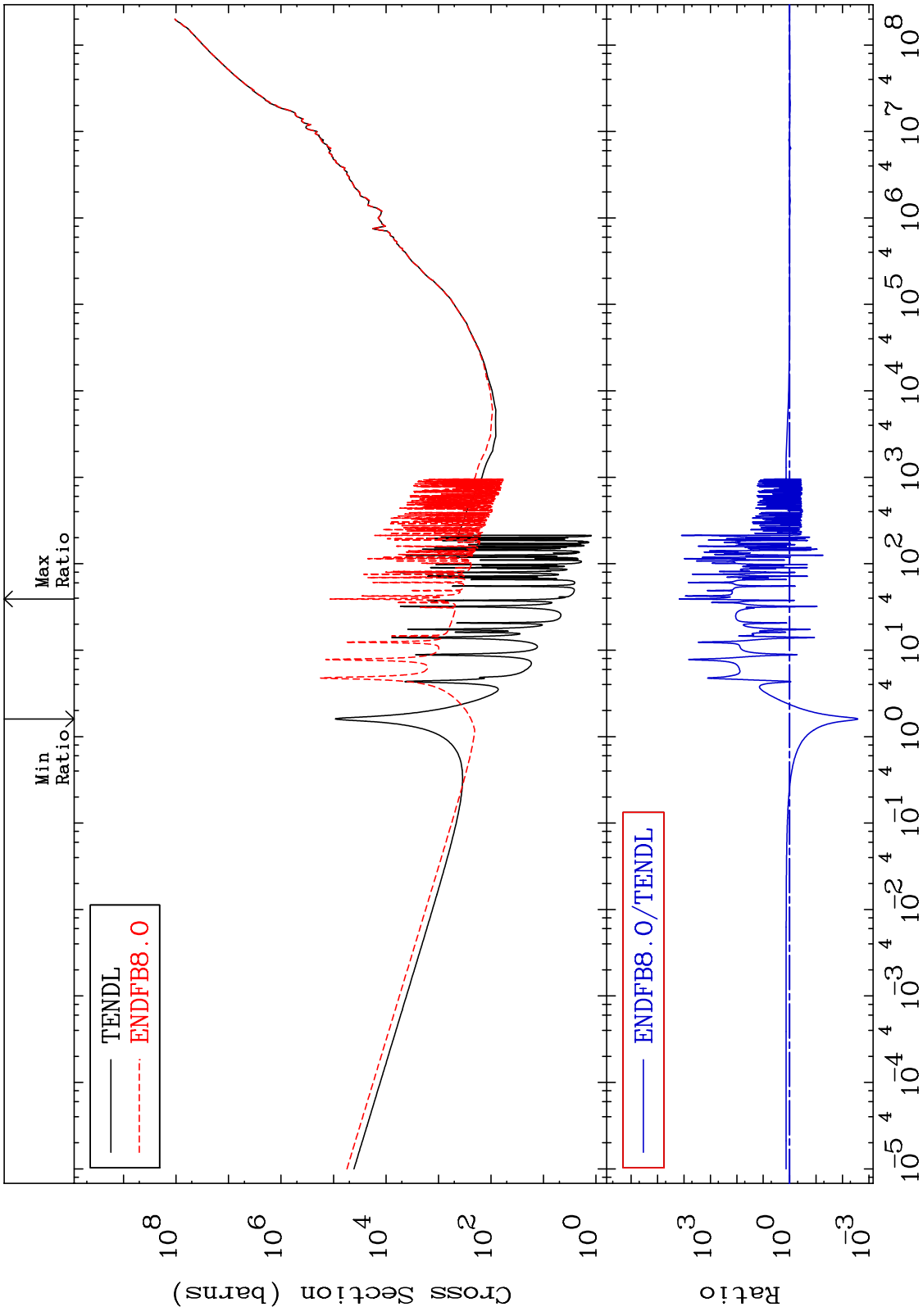
MAT 7834

Kerma elastic
Cross Section

78-Pt-193
-97.03 To 9999. %



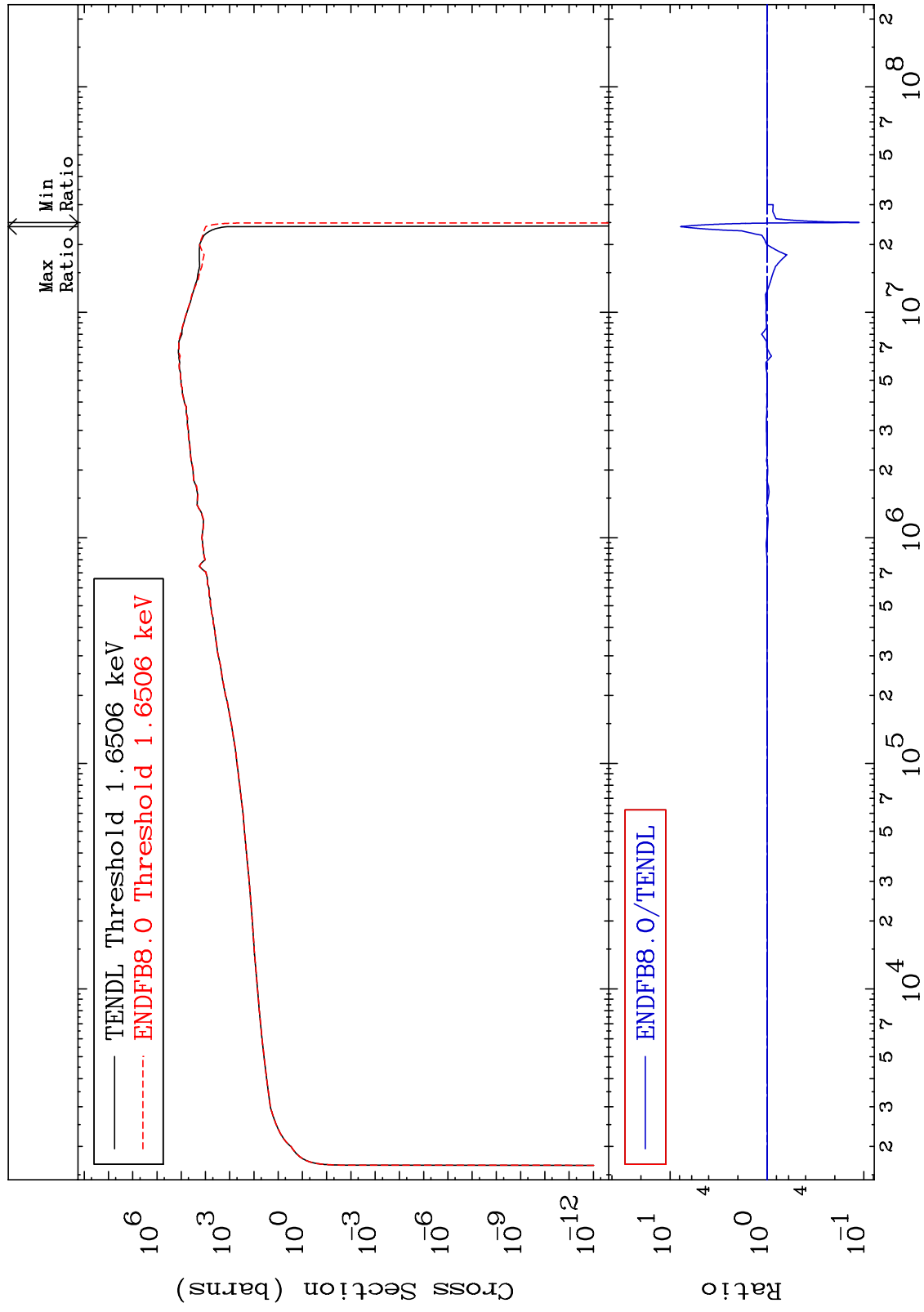
MAT 7834 Kerma non-elastic (all but mt2) 78-Pt-193
 -99.74 To 9999. %
 Cross Section



MAT 7834

Kerma inelastic (mt51-91)
Cross Section

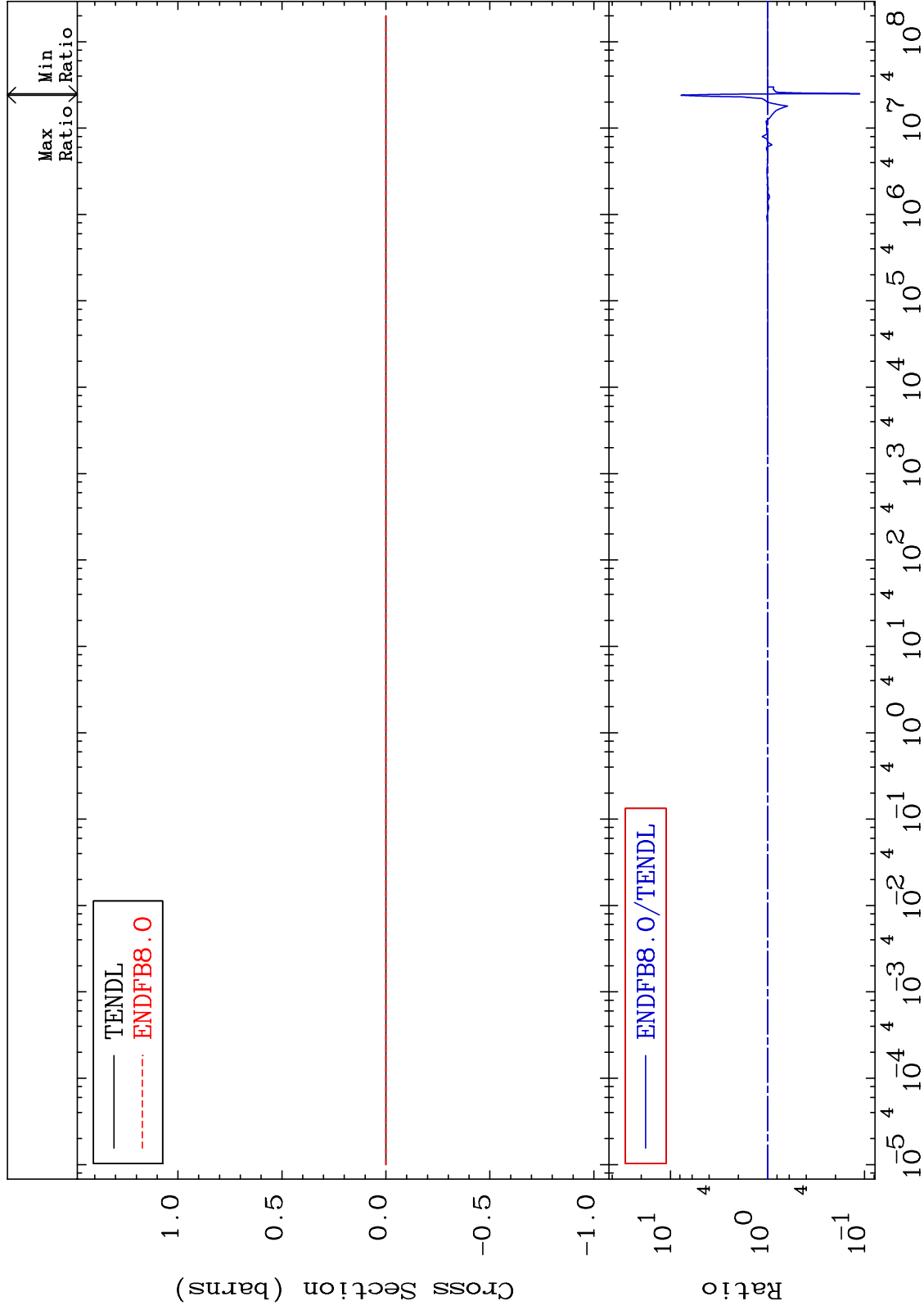
78-Pt-193
-88.78 To 675.9 %



MAT 7834

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

78-Pt-193
-88.78 To 675.9 %



70

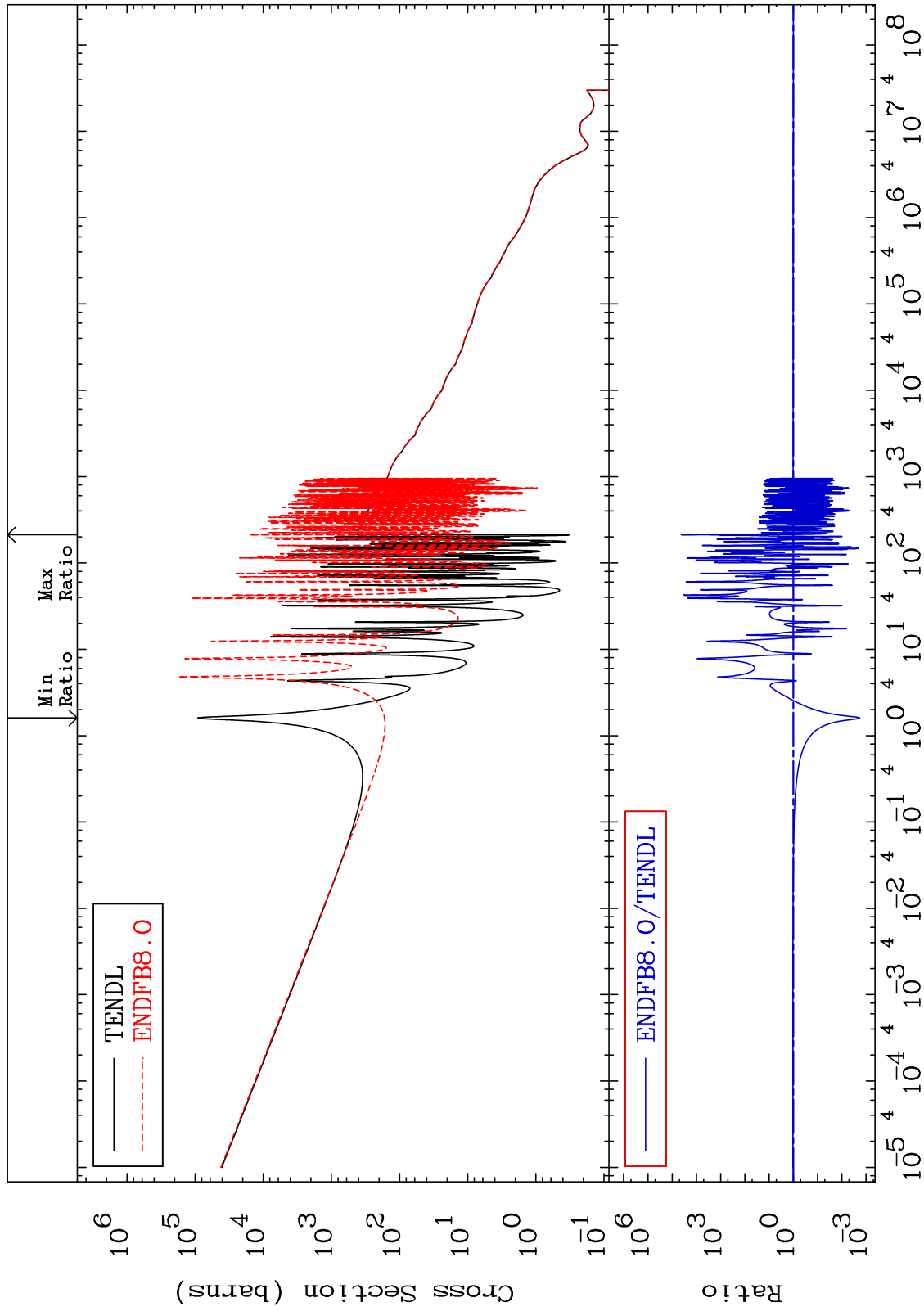
Incident Energy (eV)

78-Pt-193

MAT 7834

Kerma capture (mt102)
Cross Section

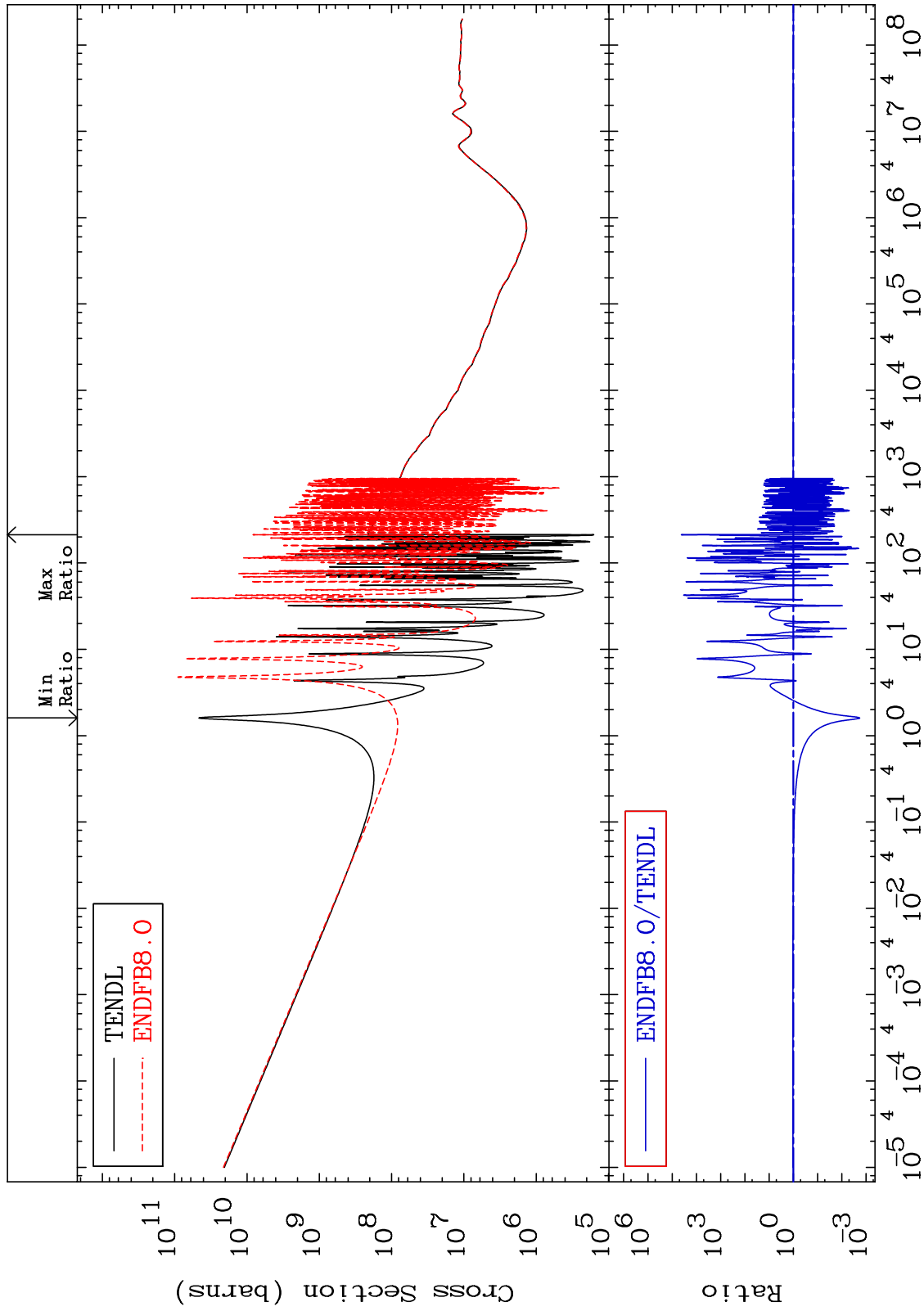
78-Pt-193
-99.82 To 9999. %



MAT 7834

Total photon (eV-barns)
Cross Section

78-Pt-193
-99.82 To 9999. %

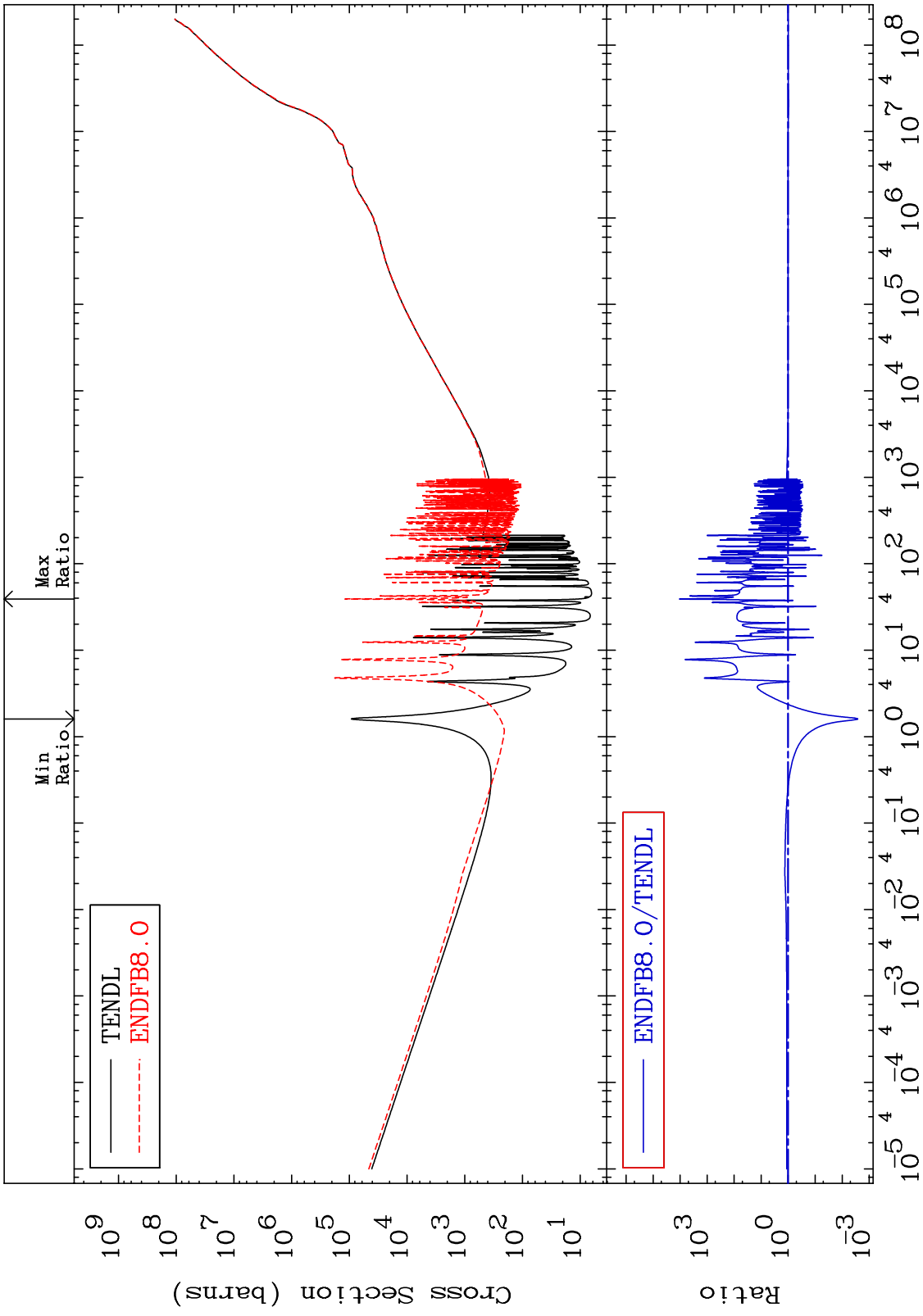


72

Incident Energy (eV)

78-Pt-193

MAT 7834 Total kinematic kerma (high limit) 78-Pt-193
 Cross Section -99.74 To 9999. %



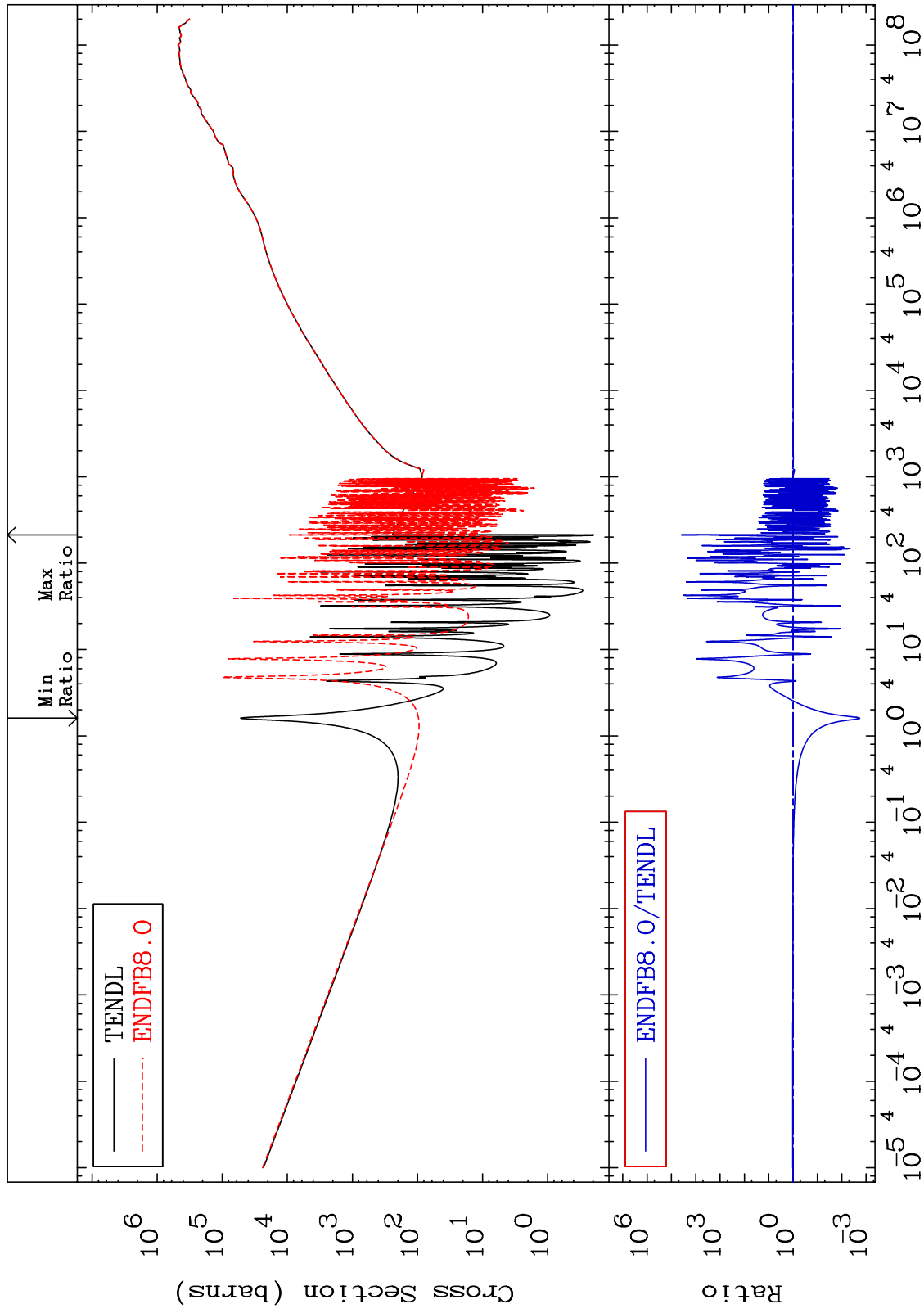
MAT 7834

Dpa total (eV-barns)

78-Pt-193

-99.82 To 9999. %

Cross Section



74

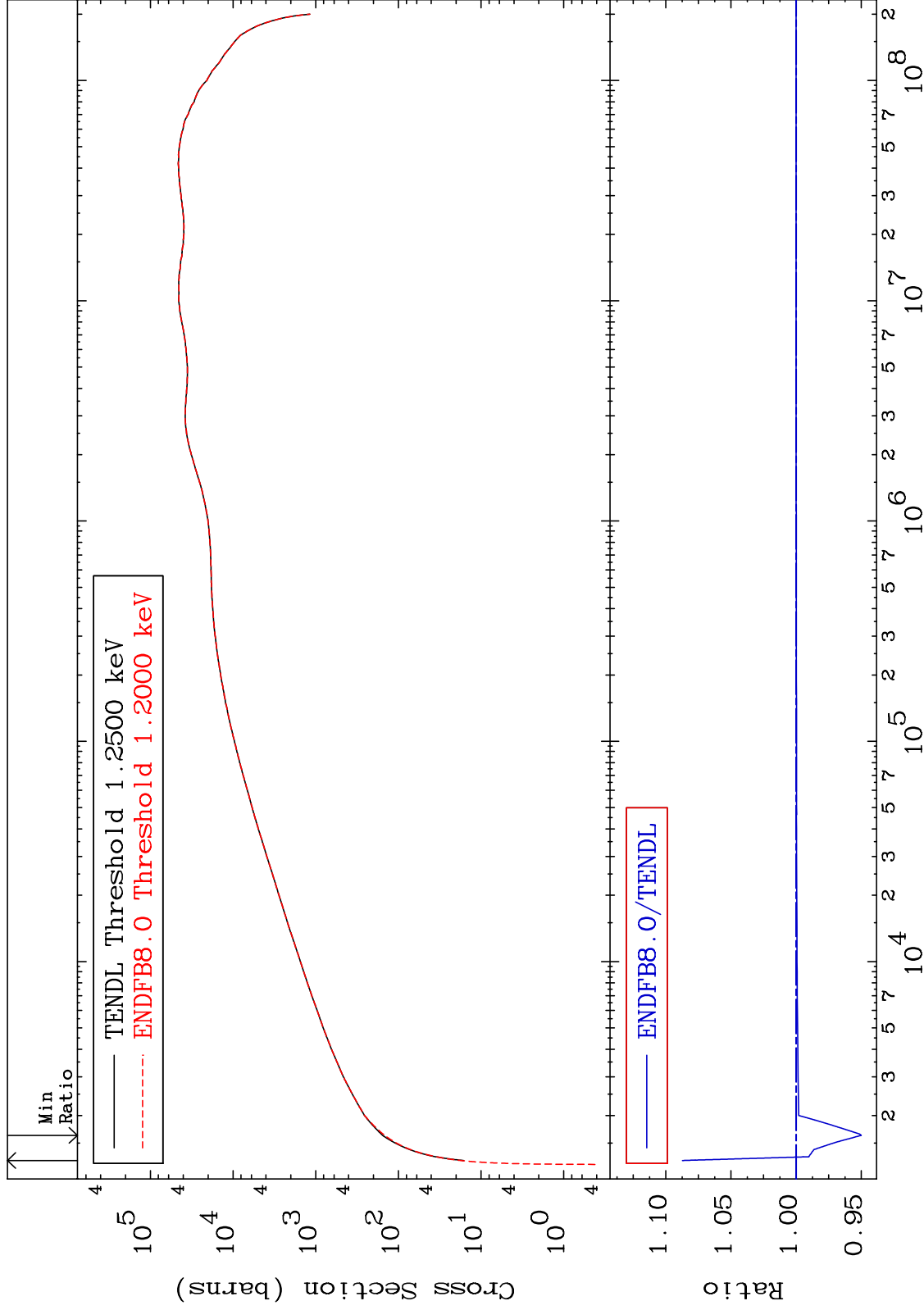
Incident Energy (eV)

78-Pt-193

MAT 7834

Dpa elastic (mt2)
Cross Section

78-Pt-193
-4.998 To 8.724 %

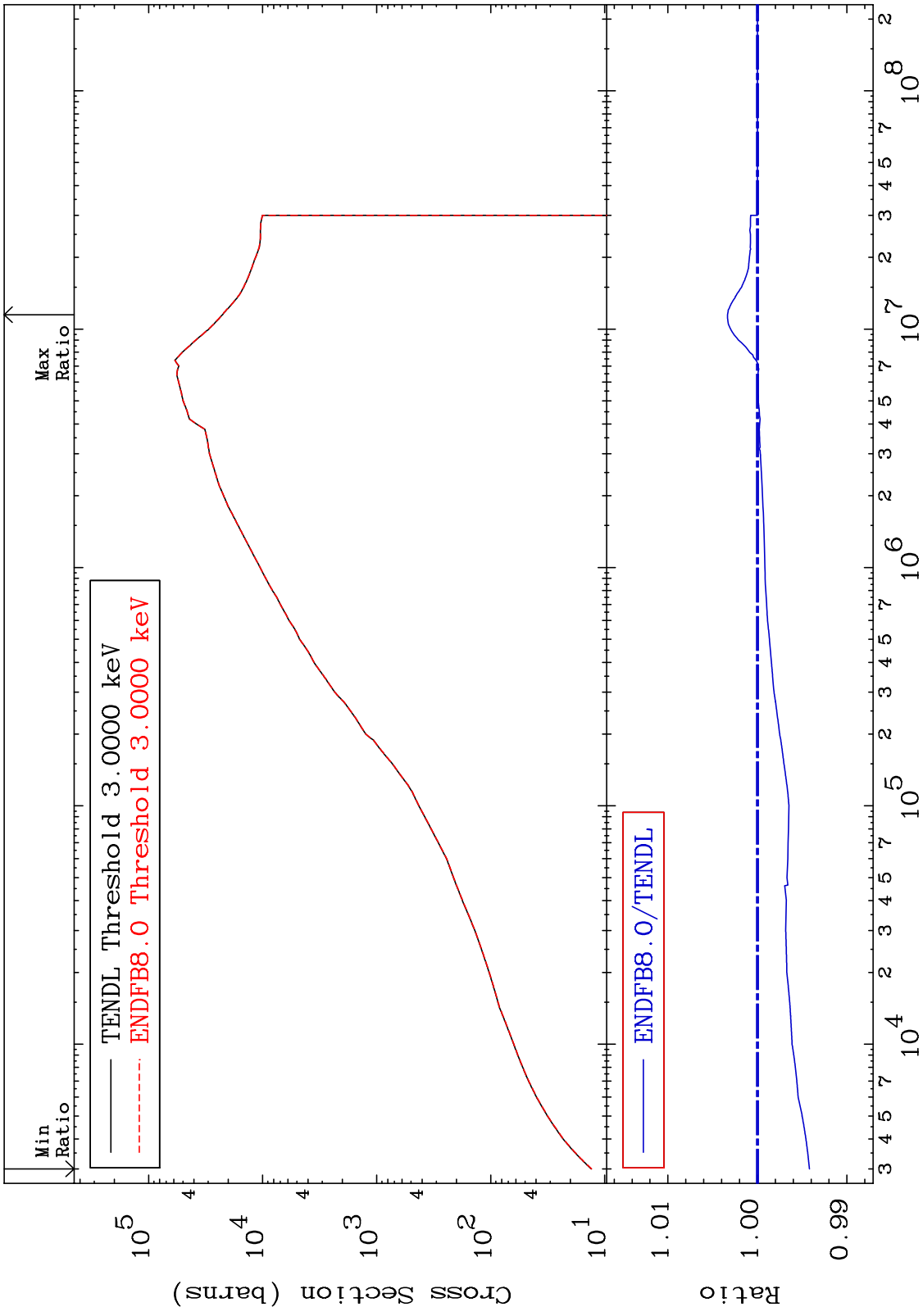


75

Incident Energy (eV)

78-Pt-193

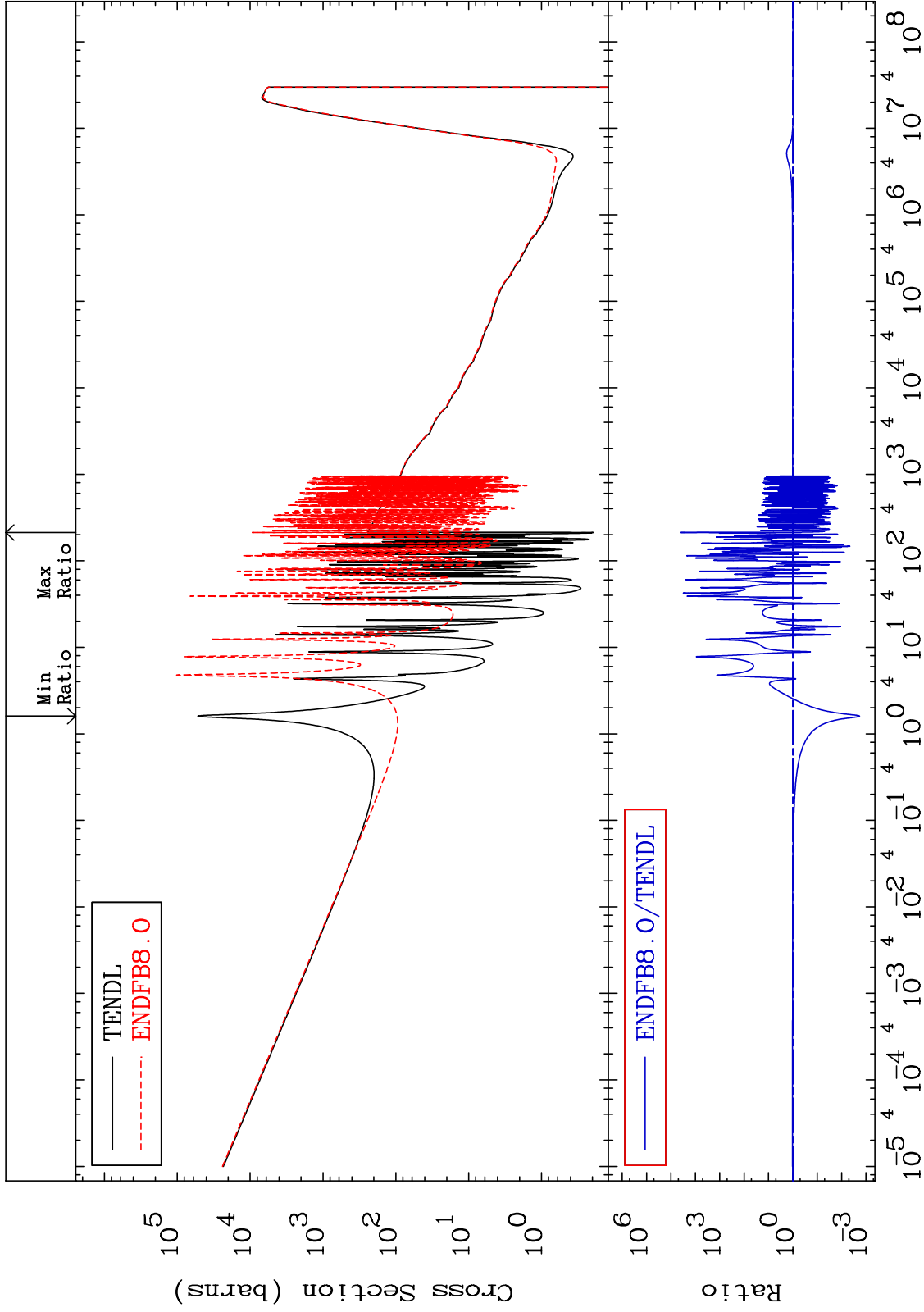
MAT 7834 Dpa inelastic (mt51-91) 78-Pt-193
 Cross Section -0.582 To 0.335 %



MAT 7834

Dpa disappearance (mt102 -120)
Cross Section

78-Pt-193
-99.82 To 9999. %



77

Incident Energy (eV)

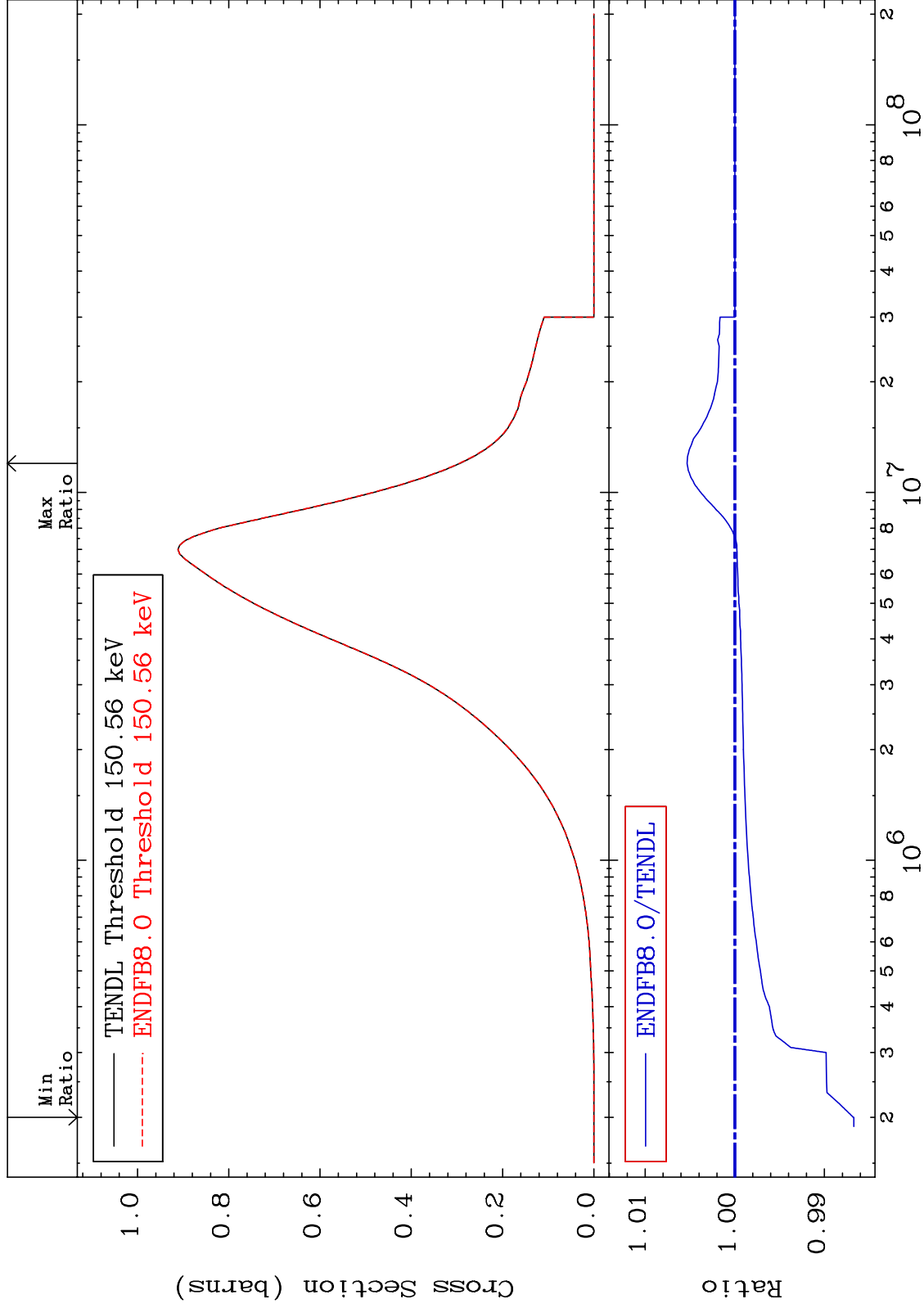
78-Pt-193

MAT 7834

Inelastic: 78-Pt-193m5

78-Pt-193

Radionuclide Production Cross Section -1.328 To 0.532 %



78

Incident Energy (eV)

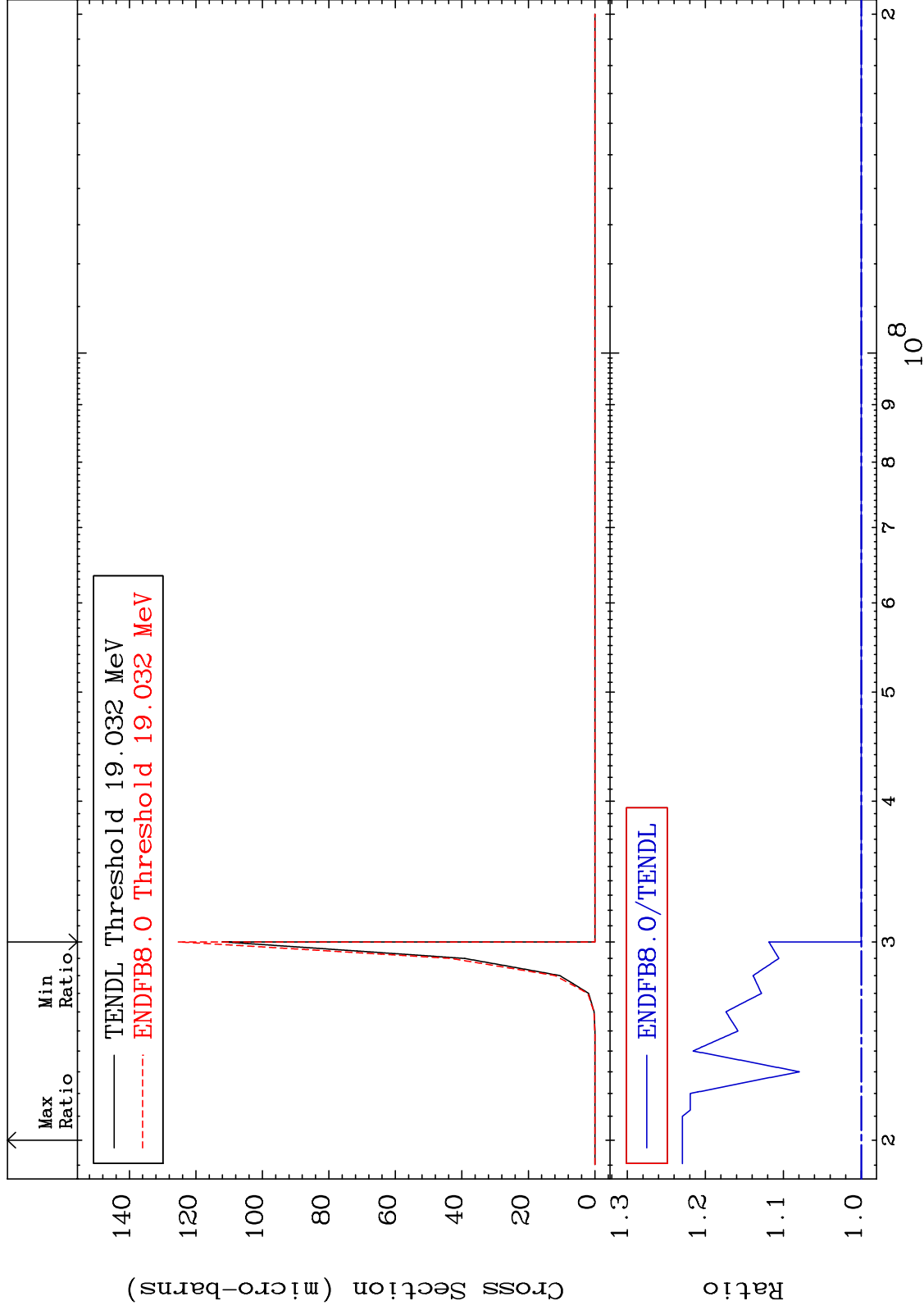
78-Pt-193

MAT 7834

(n,2n) d:77-Ir-190g

78-Pt-193

Radionuclide Production Cross Section 0.000 To 22.93 %

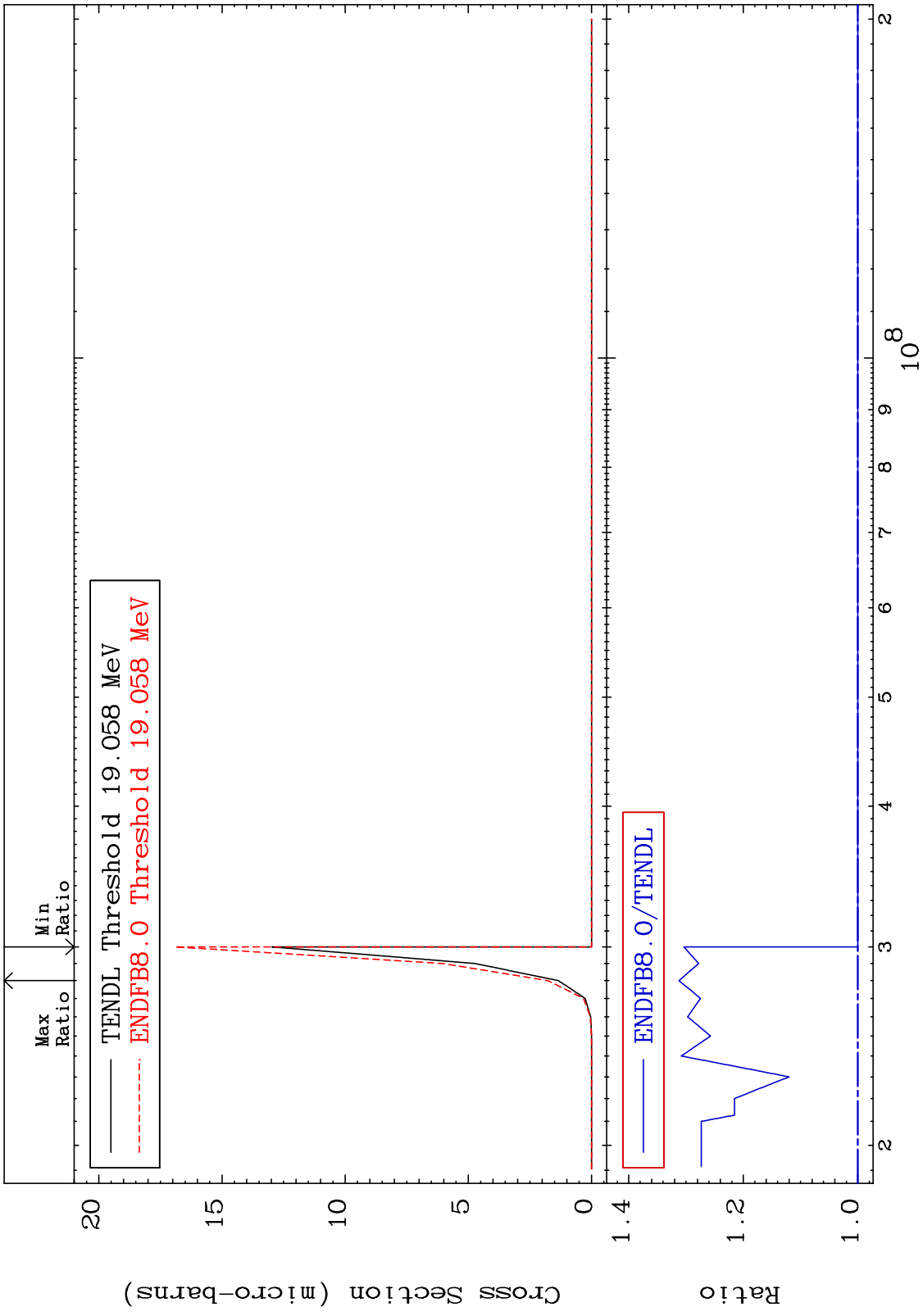


79

Incident Energy (eV)

78-Pt-193

MAT 7834 (n,2n) d:77-Ir-190m2 78-Pt-193
 Radionuclide Production Cross Section 0.000 To 31.21 %

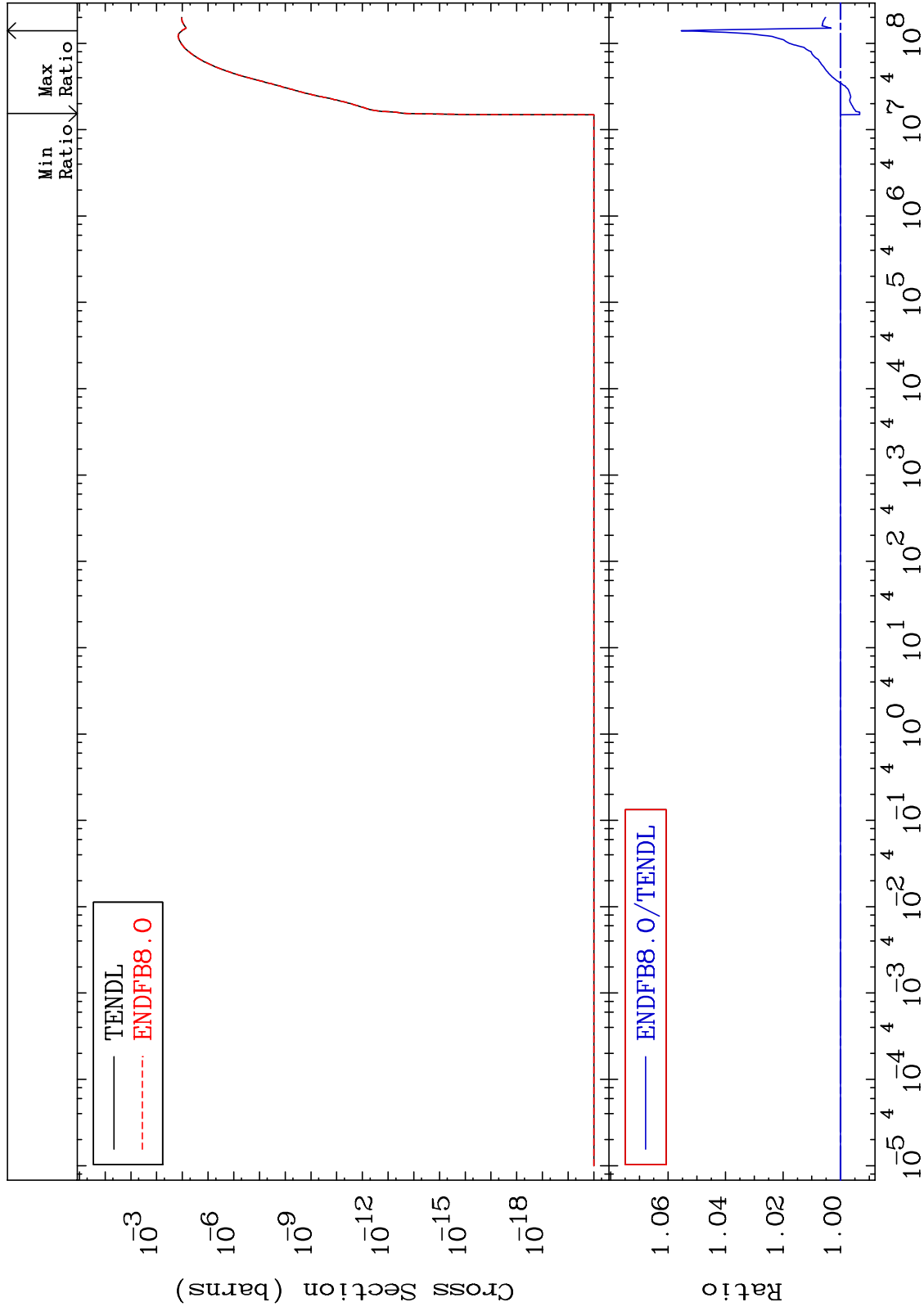


MAT 7834

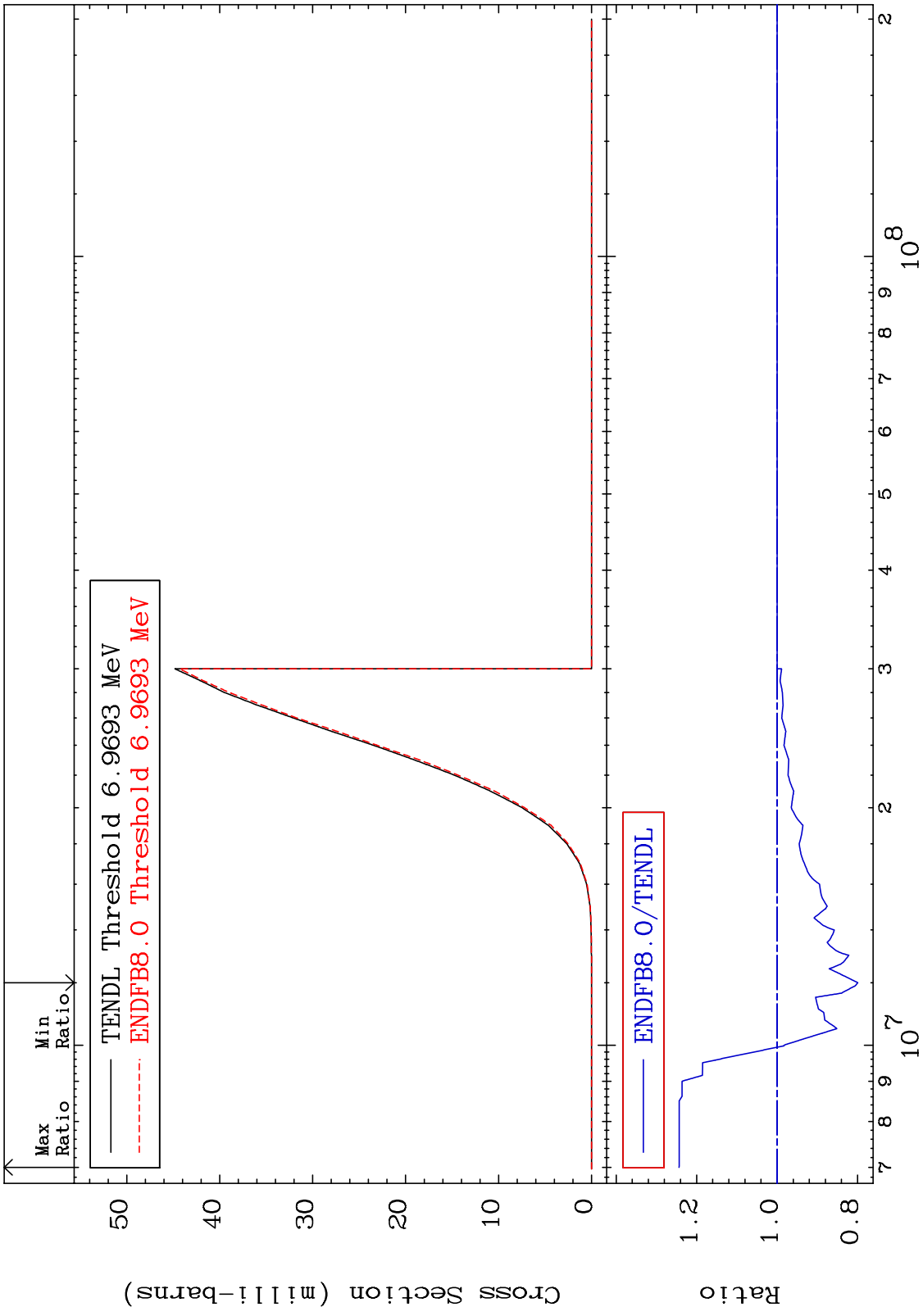
Fission: 0-??-Nat

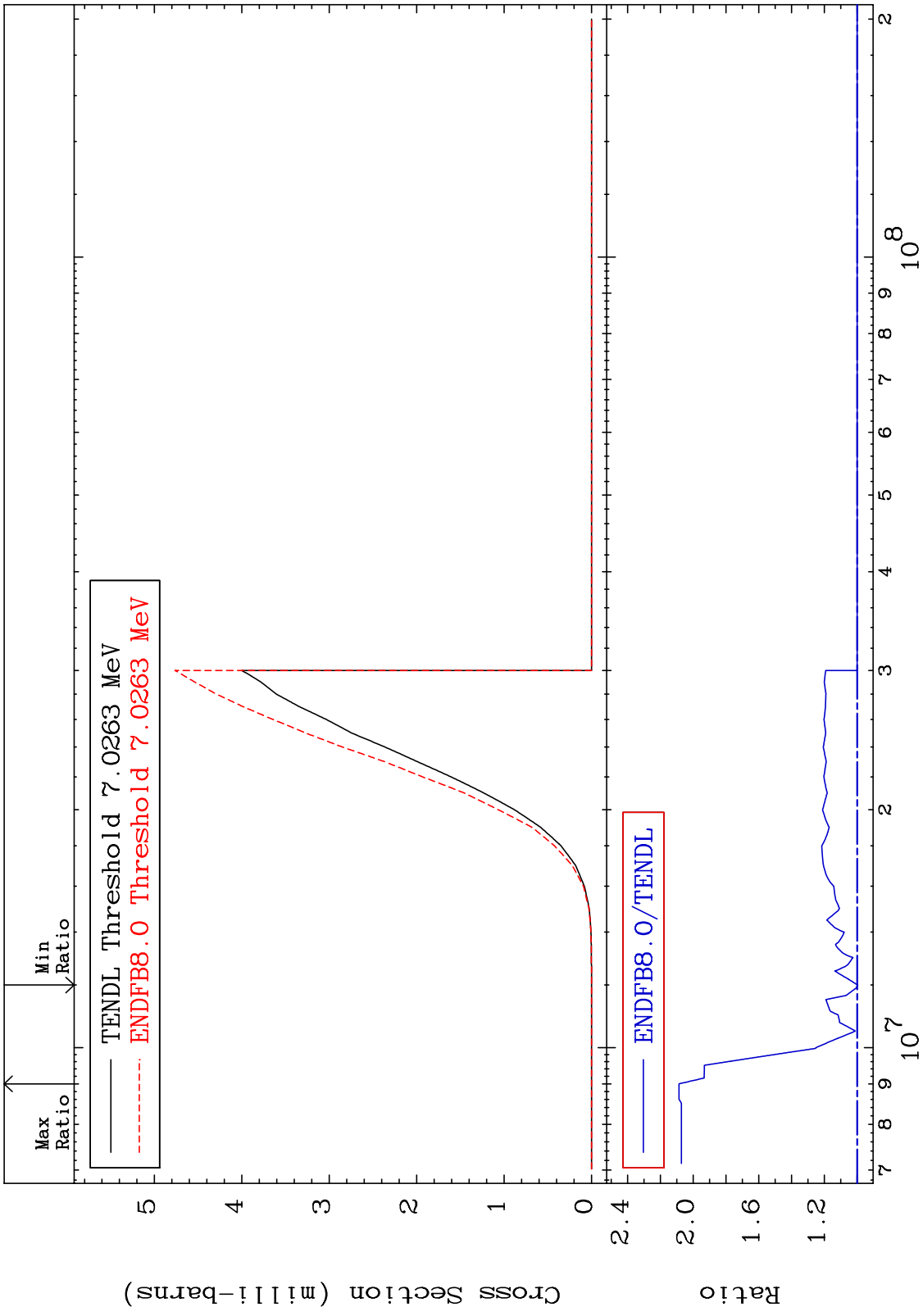
78-Pt-193

Radionuclide Production Cross Section -0.670 To 5.543 %



MAT 7834 (n,n') p:77-Ir-192g 78-Pt-193
 Radionuclide Production Cross Section -20.06 To 24.37 %



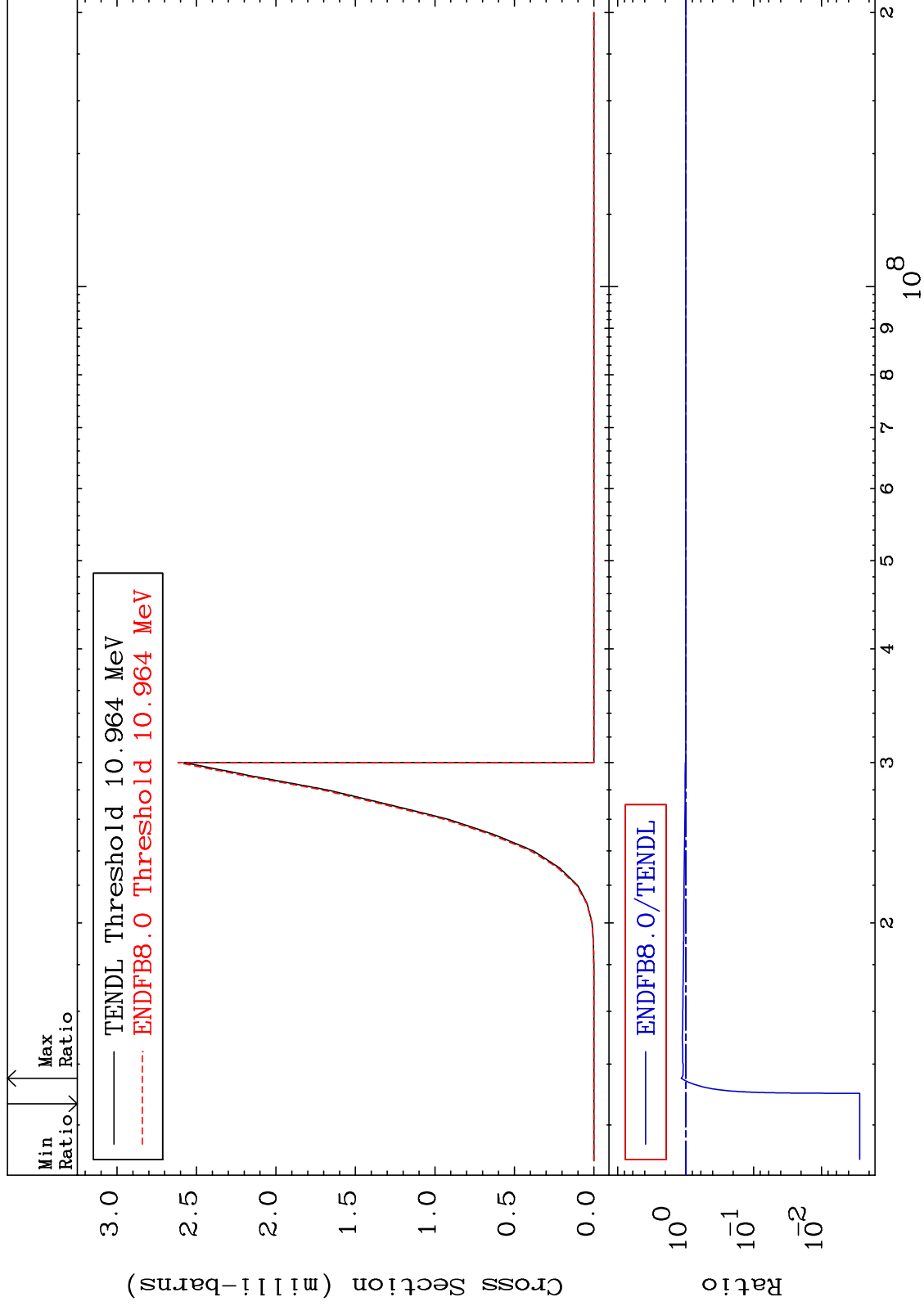


MAT 7834

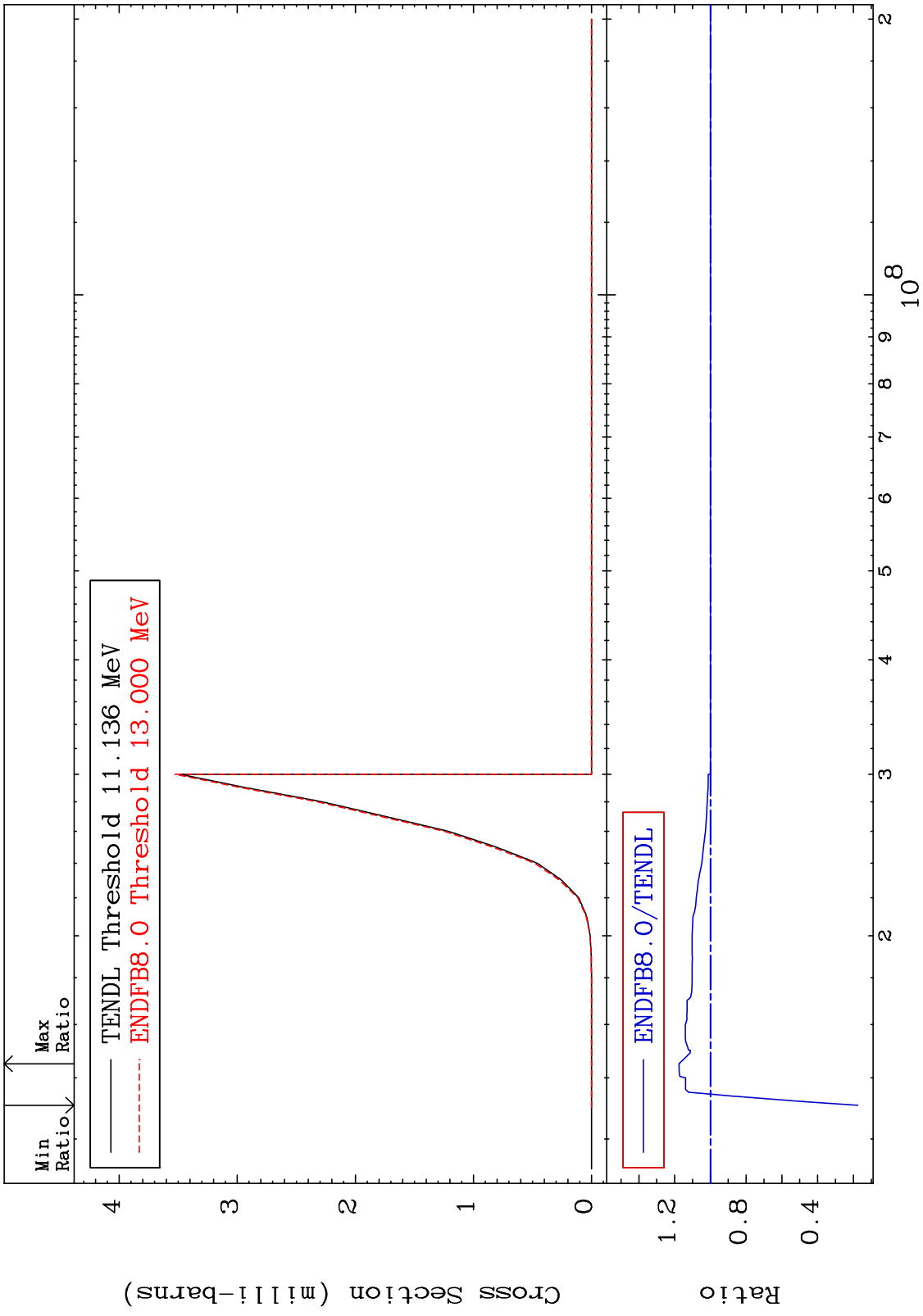
(n, n') d:77-Ir-191g

78-Pt-193

Radionuclide Production Cross Section -99.73 To 16.21 %



MAT 7834 (n,n') d:77-Ir-191m3 78-Pt-193
 Radionuclide Production Cross Section -82.50 To 17.54 %

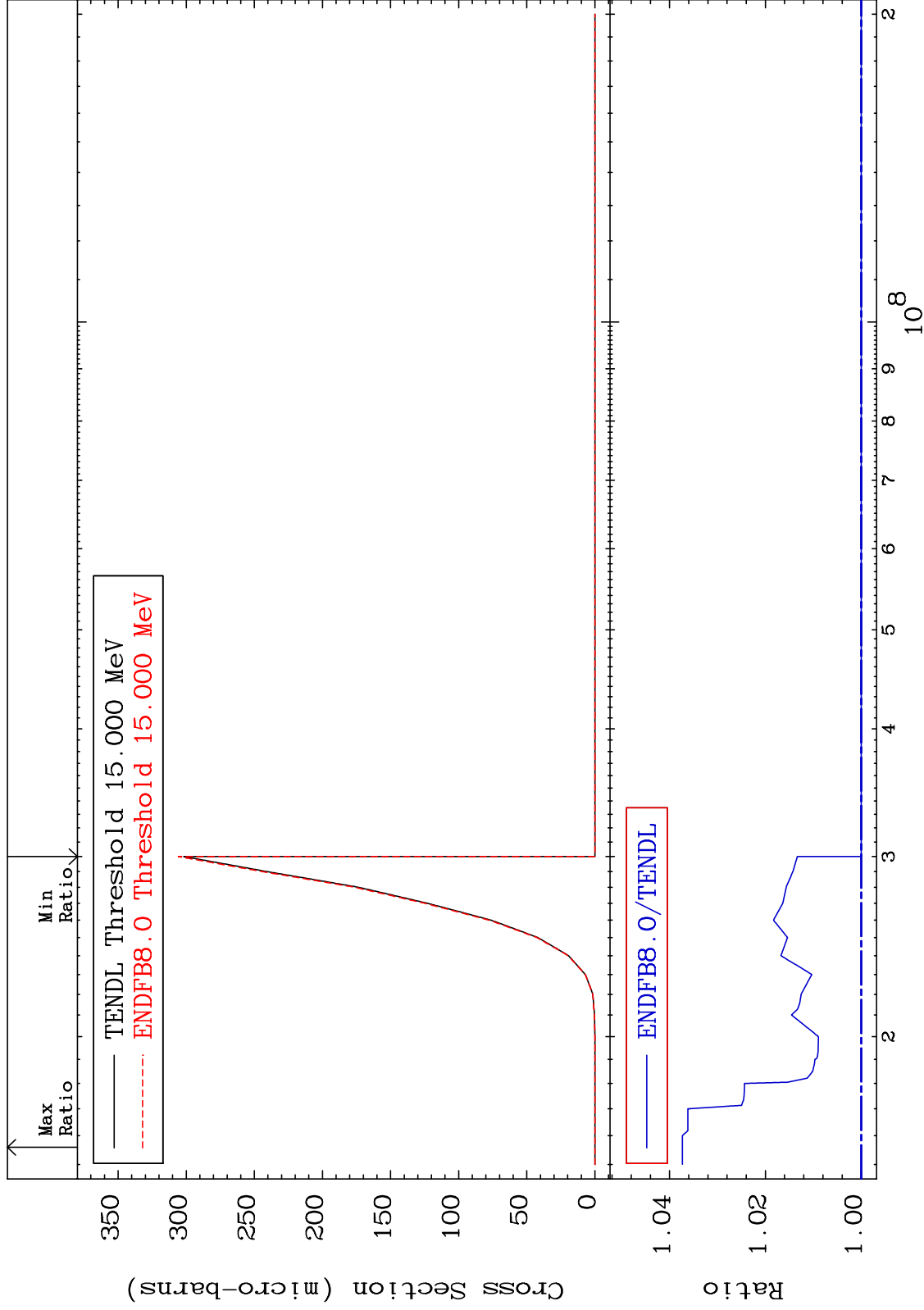


MAT 7834

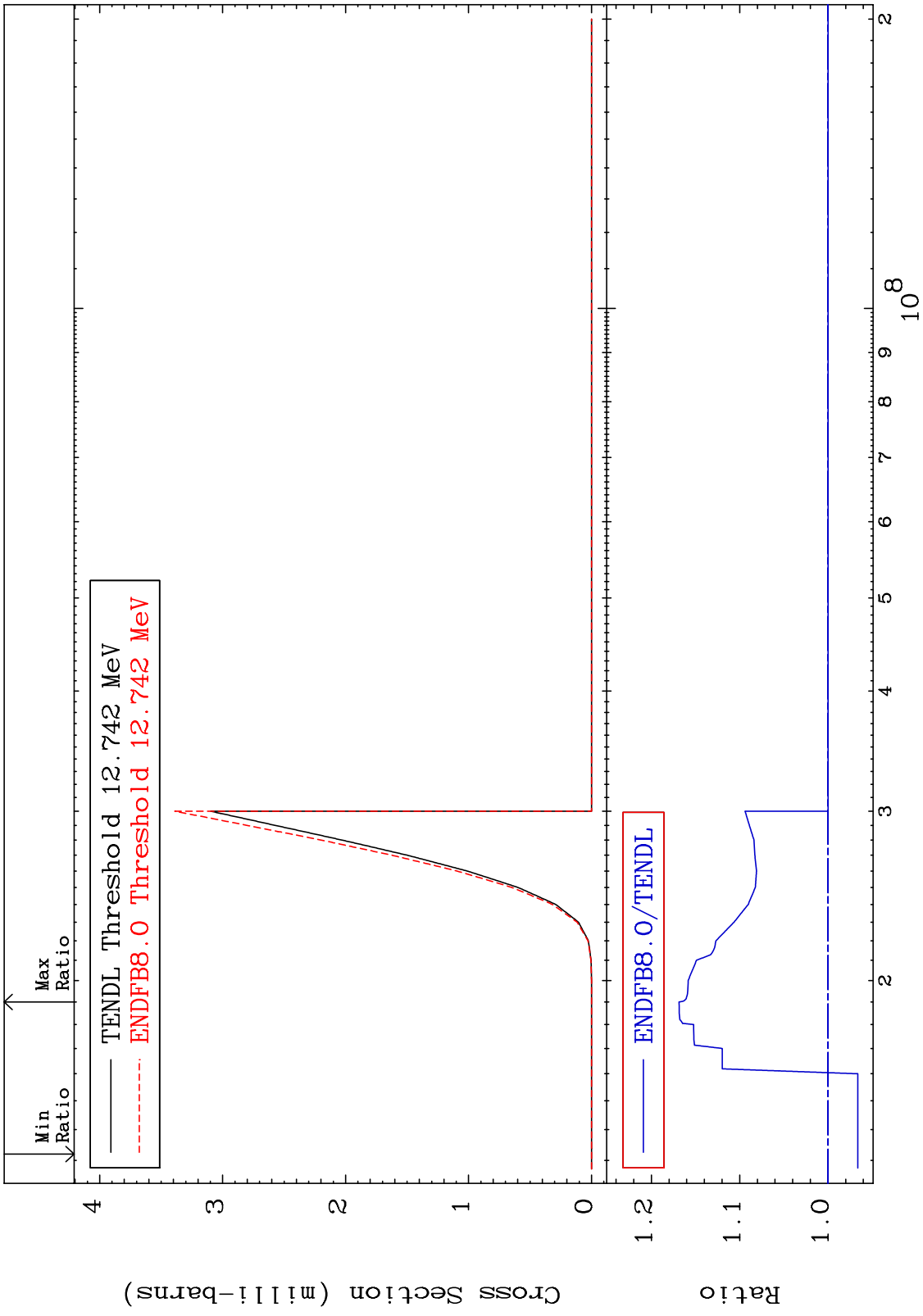
(n,n') d:77-Ir-191m5

78-Pt-193

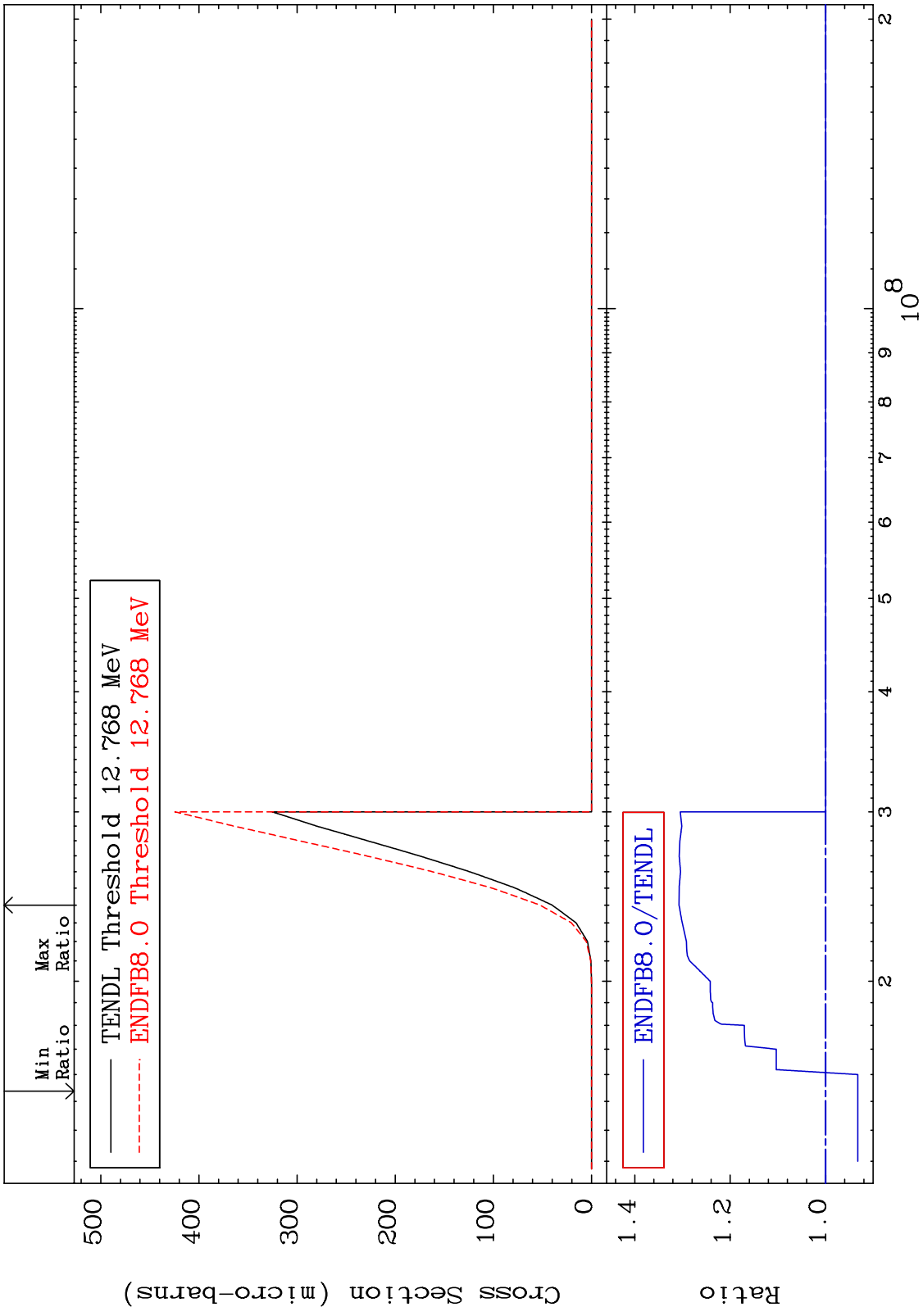
Radionuclide Production Cross Section 0.000 To 3.731 %



MAT 7834 (n, n') t: 77-Ir-190g 78-Pt-193
 Radionuclide Production Cross Section -3.375 To 16.87 %

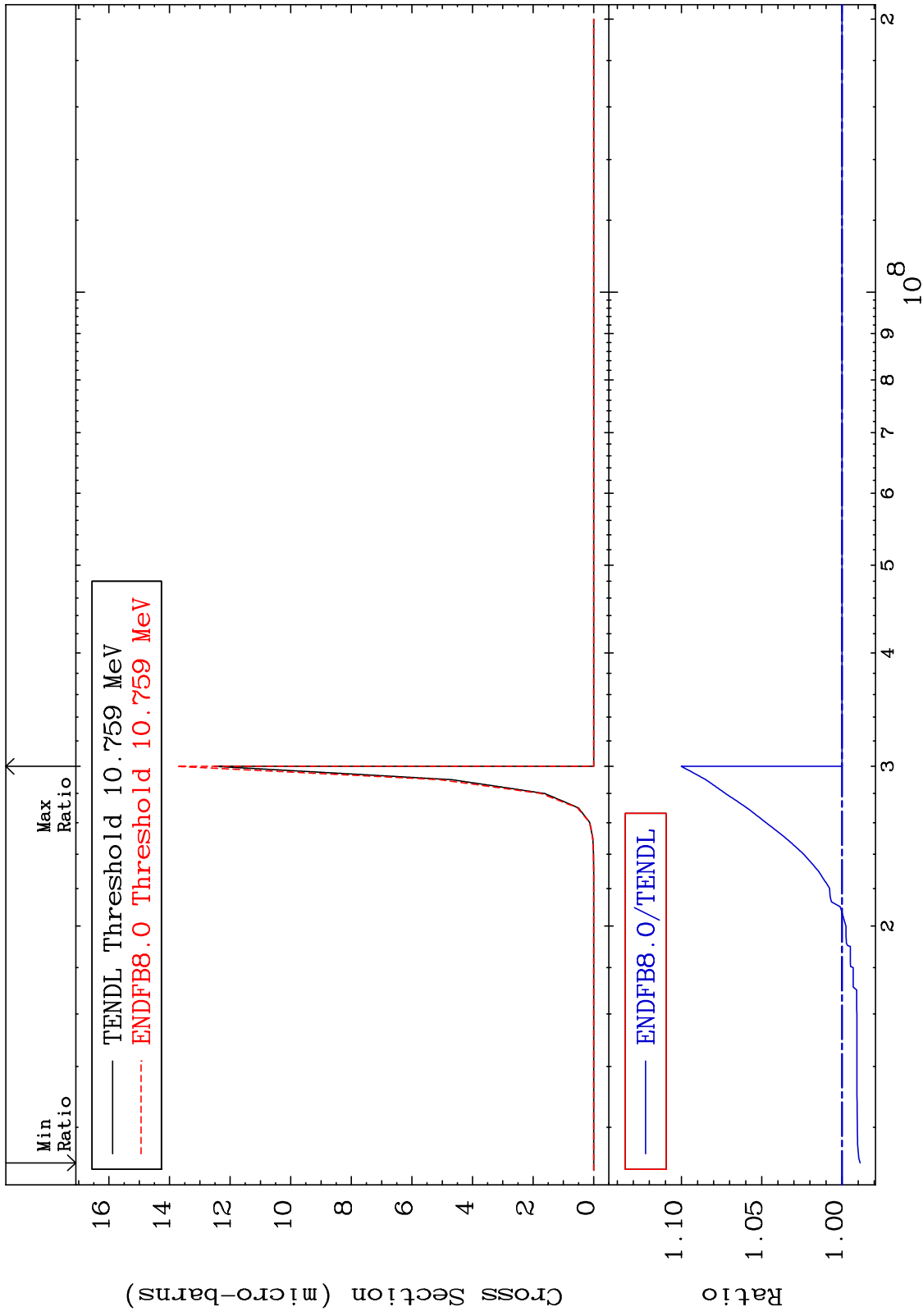


MAT 7834 (n,n') t:77-Ir-190m2 78-Pt-193
 Radionuclide Production Cross Section -6.739 To 30.72 %

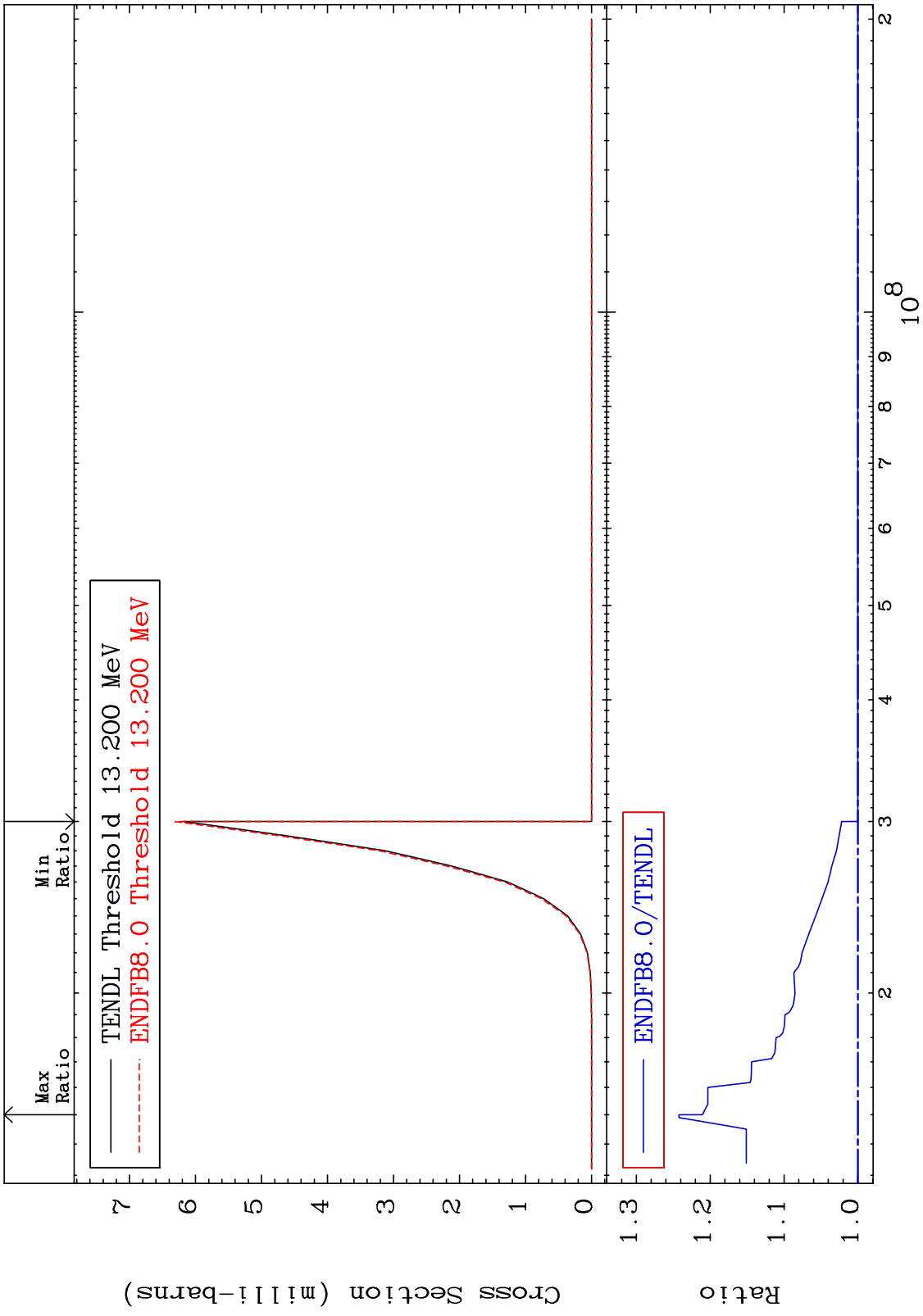


MAT 7834

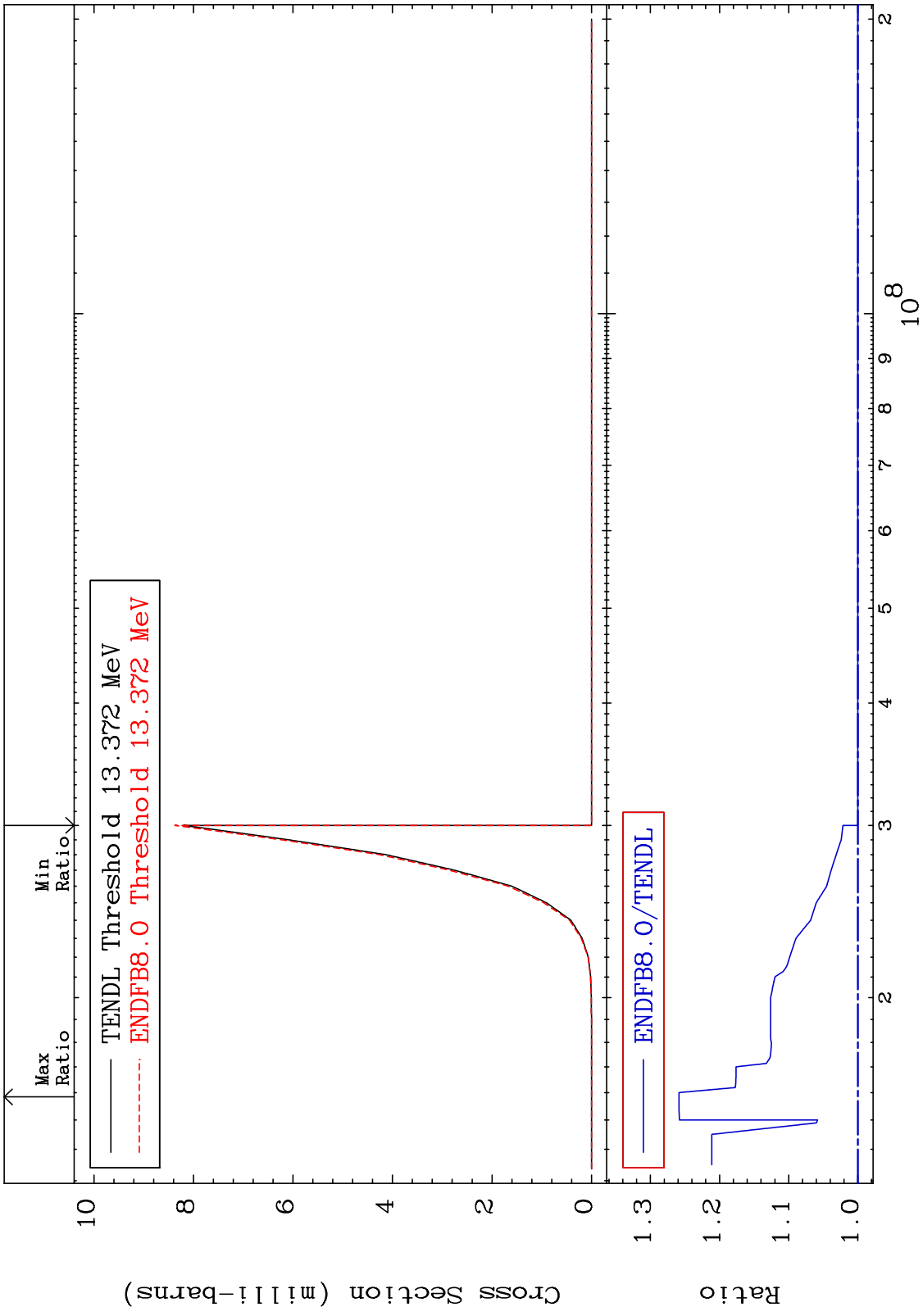
(n, n') He-3:76-0s-190g 78-Pt-193
Radionuclide Production Cross Section -1.132 To 10.01 %



MAT 7834 (n,2n) p:77-Ir-191g 78-Pt-193
 Radionuclide Production Cross Section 0.000 To 24.22 %



MAT 7834 (n,2n) p:77-Ir-191m3 78-Pt-193
 Radionuclide Production Cross Section 0.000 To 25.86 %

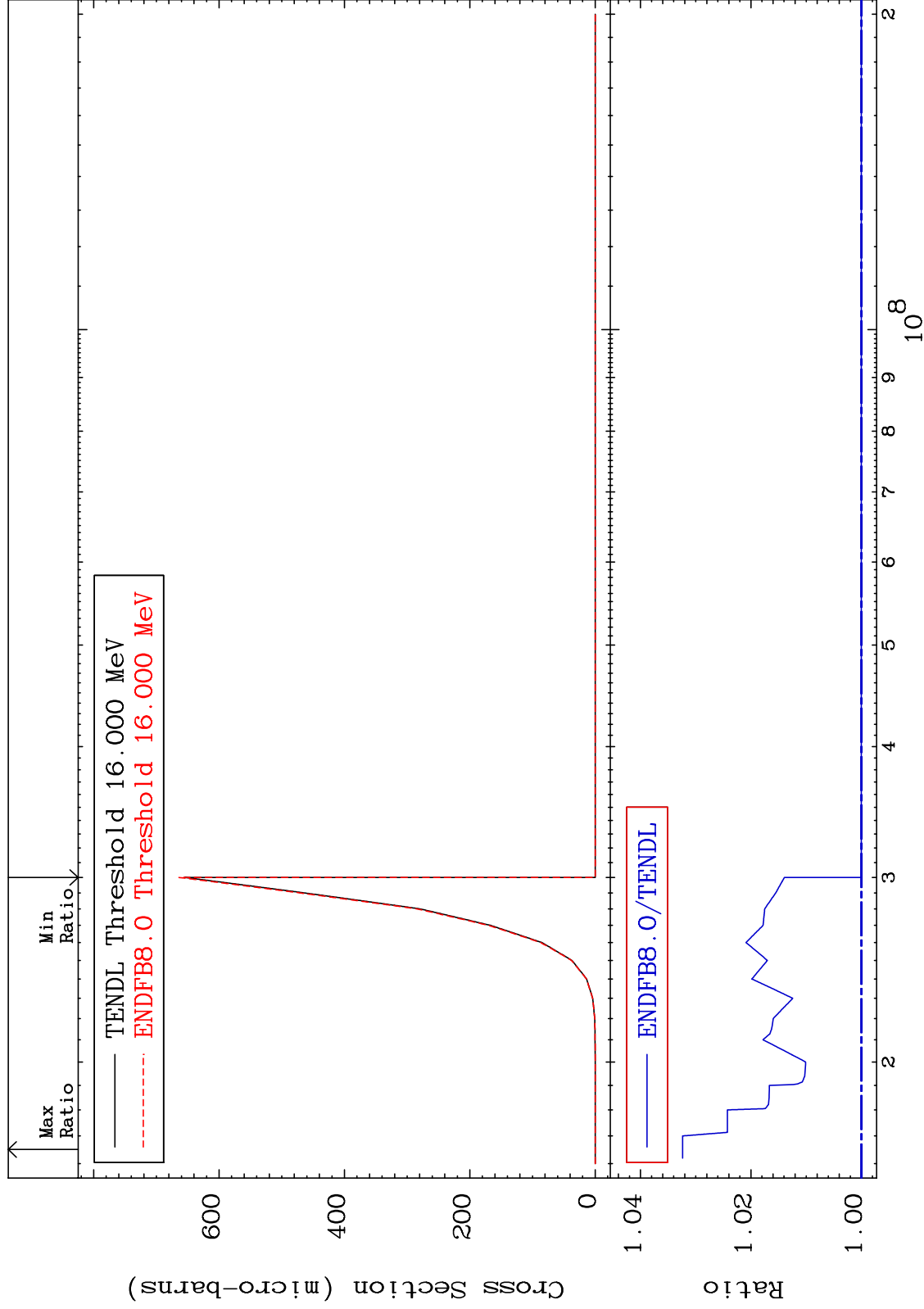


MAT 7834

(n,2n) p:77-Ir-191m5

78-Pt-193

Radionuclide Production Cross Section 0.000 To 3.237 %



92

Incident Energy (eV)

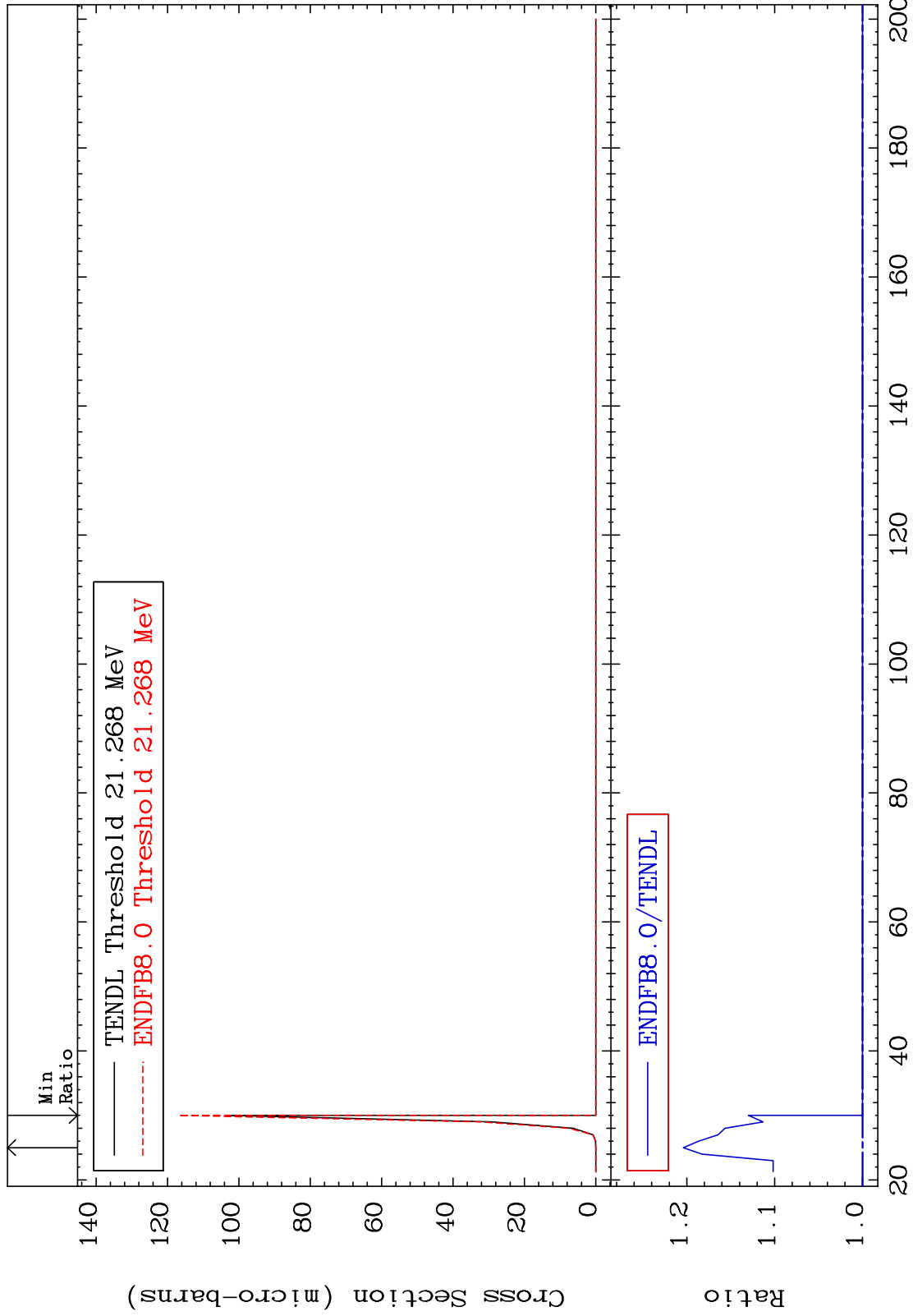
78-Pt-193

MAT 7834

(n,3n) p:77-Ir-190g

78-Pt-193

Radionuclide Production Cross Section 0.000 To 20.39 %



93

Incident Energy (MeV)

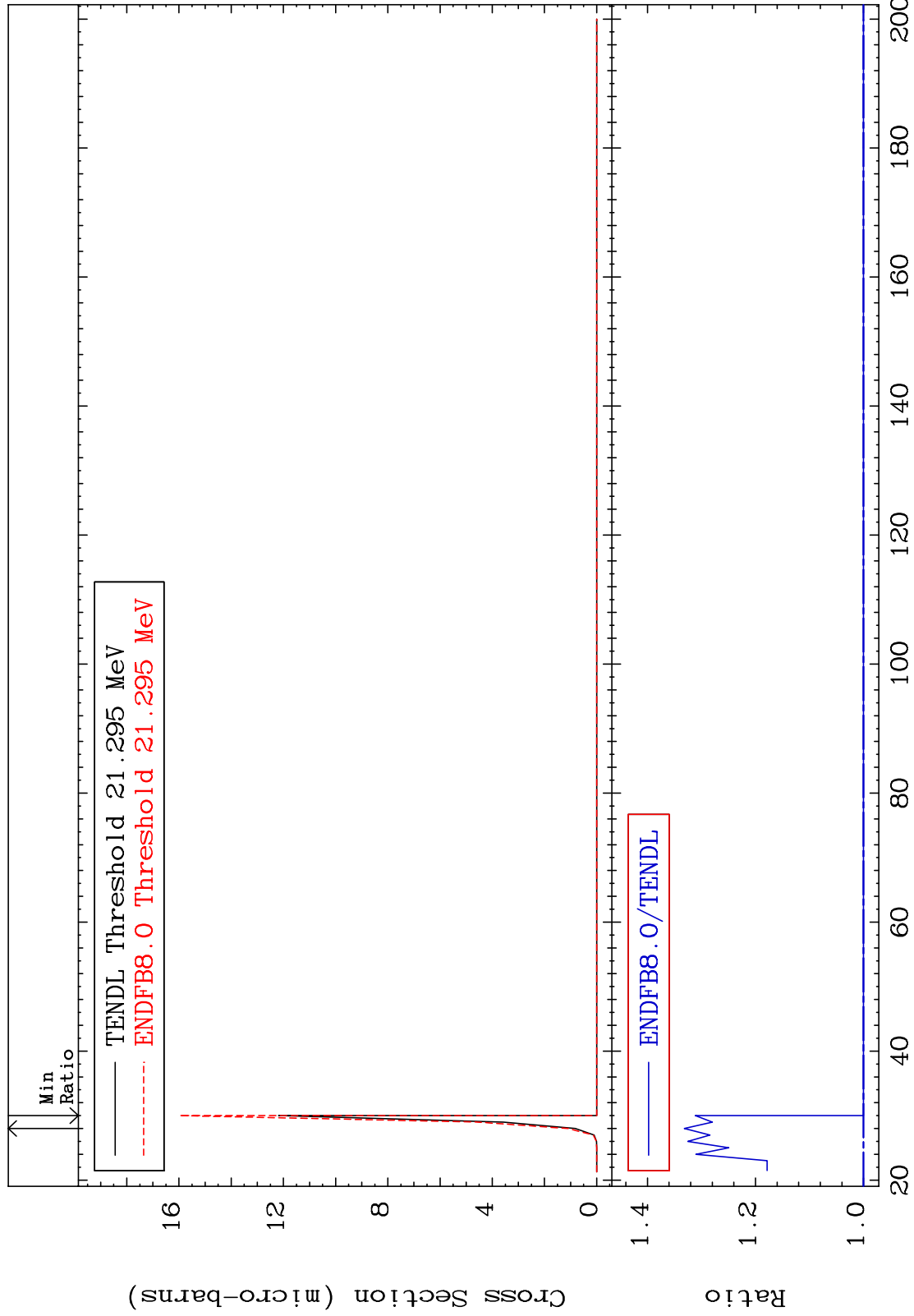
78-Pt-193

MAT 7834

(n,3n) p:77-Ir-190m2

78-Pt-193

Radionuclide Production Cross Section 0.000 To 33.17 %



94

Incident Energy (MeV)

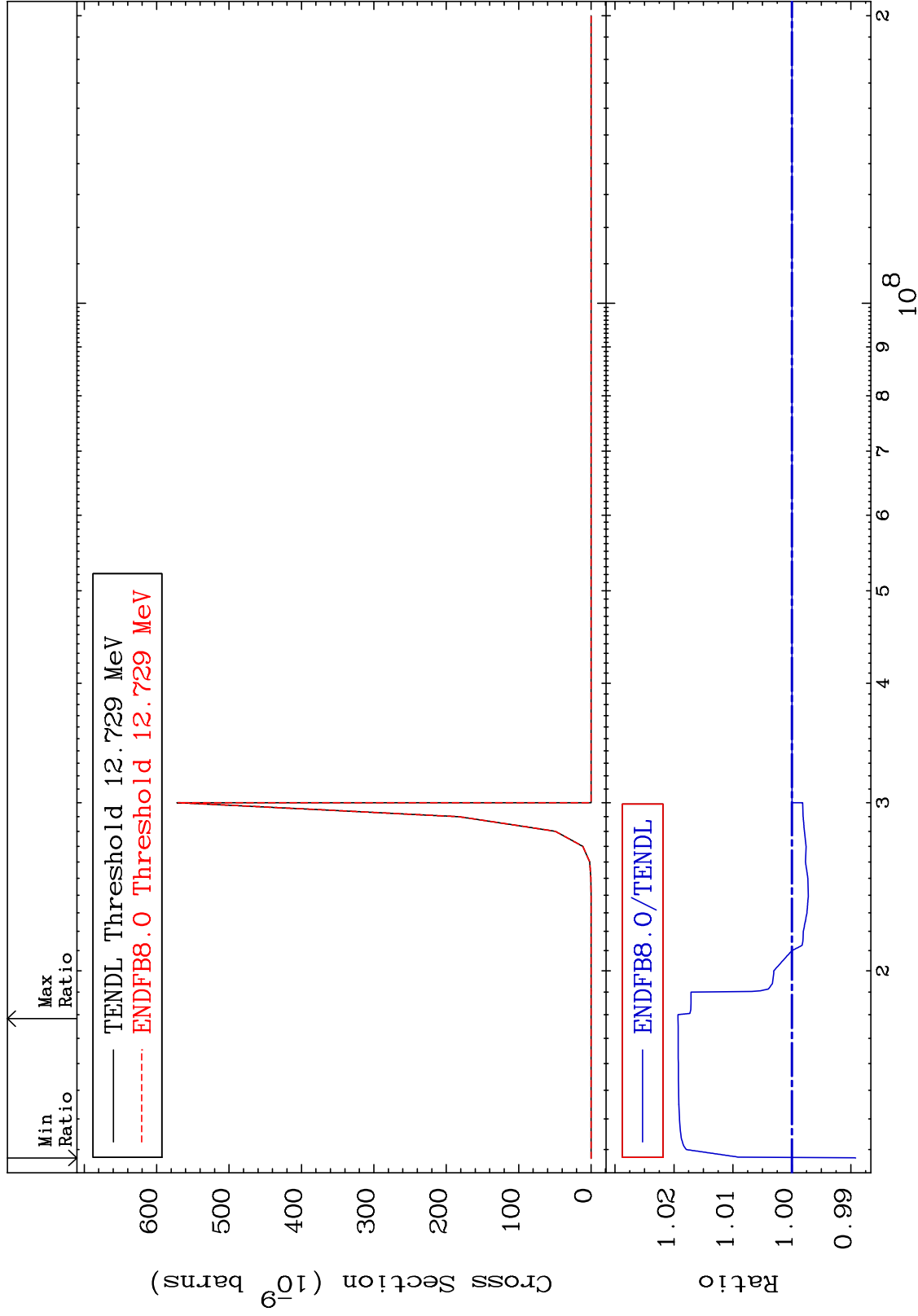
78-Pt-193

MAT 7834

(n,2n) p:76-0s-191g

78-Pt-193

Radionuclide Production Cross Section -1.081 To 1.931 %

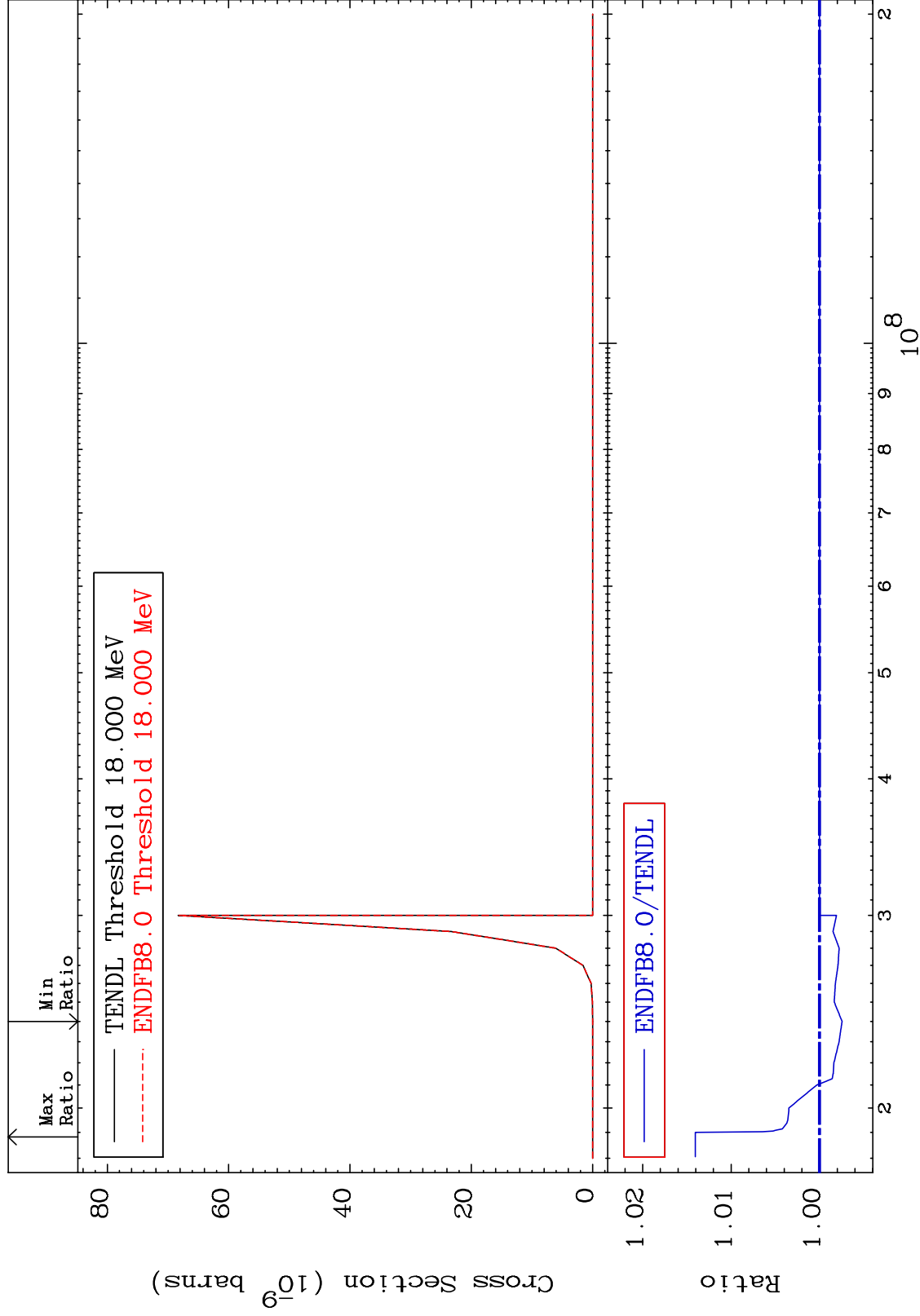


MAT 7834

(n,2n) p:76-0s-191m1

78-Pt-193

Radionuclide Production Cross Section -0.255 To 1.405 %



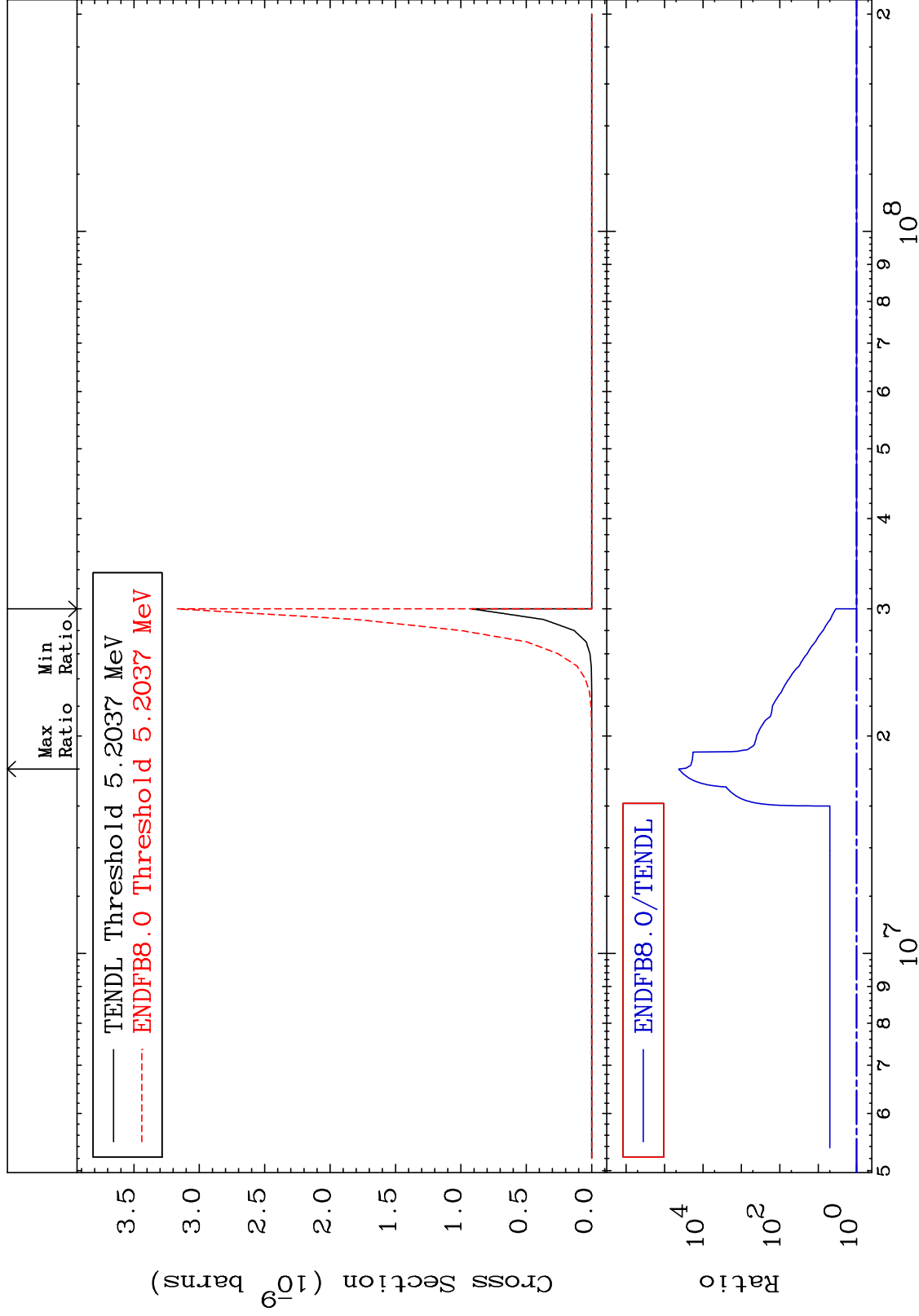
96

Incident Energy (eV)

78-Pt-193

MAT 7834

(n,n') p α :75-Re-188g 78-Pt-193
Radionuclide Production Cross Section 0.000 To 9999. %



97

Incident Energy (eV)

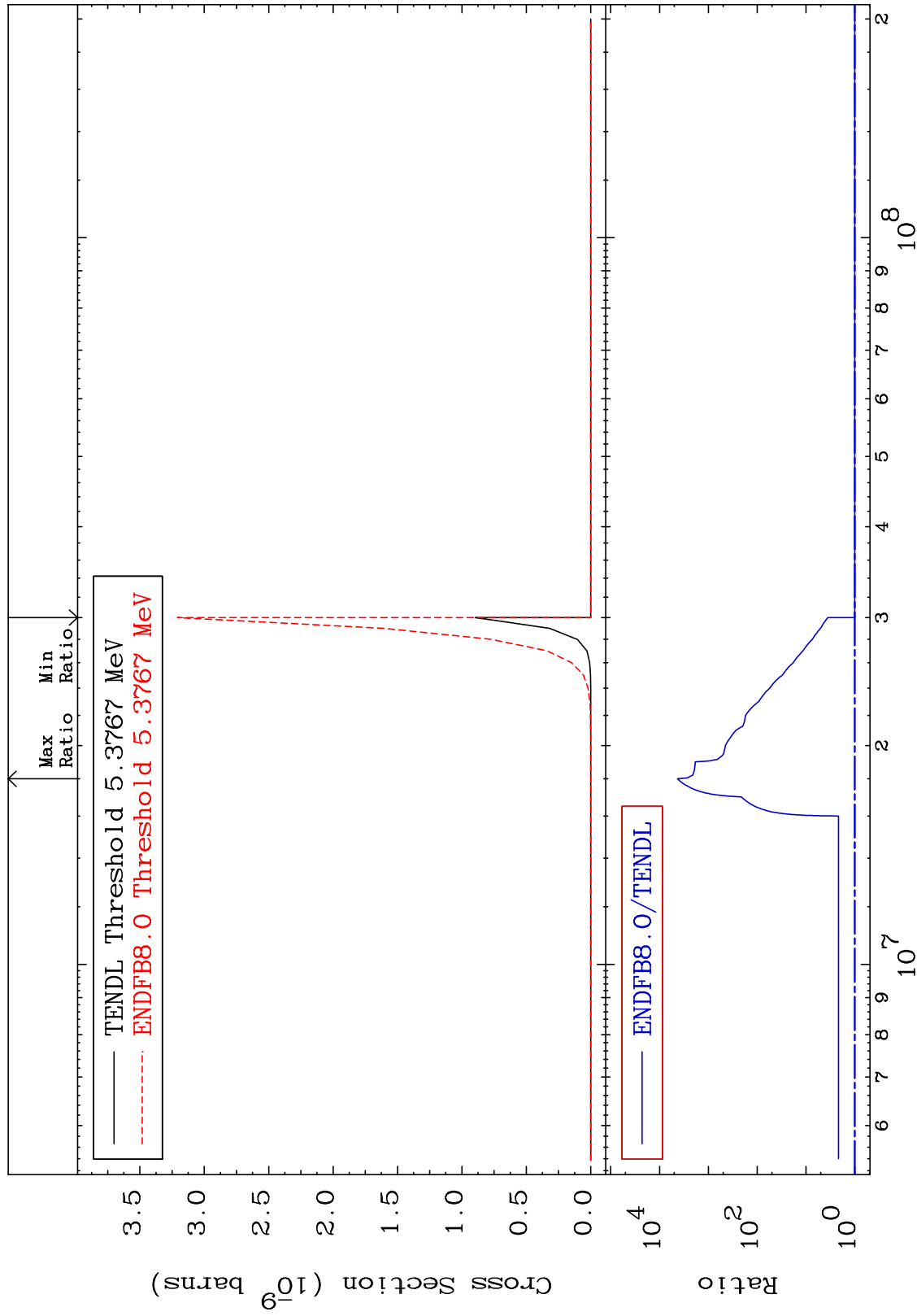
78-Pt-193

MAT 7834

(n, n') p α : 75-Re-188m7

78-Pt-193

Radionuclide Production Cross Section 0.000 To 9999. %

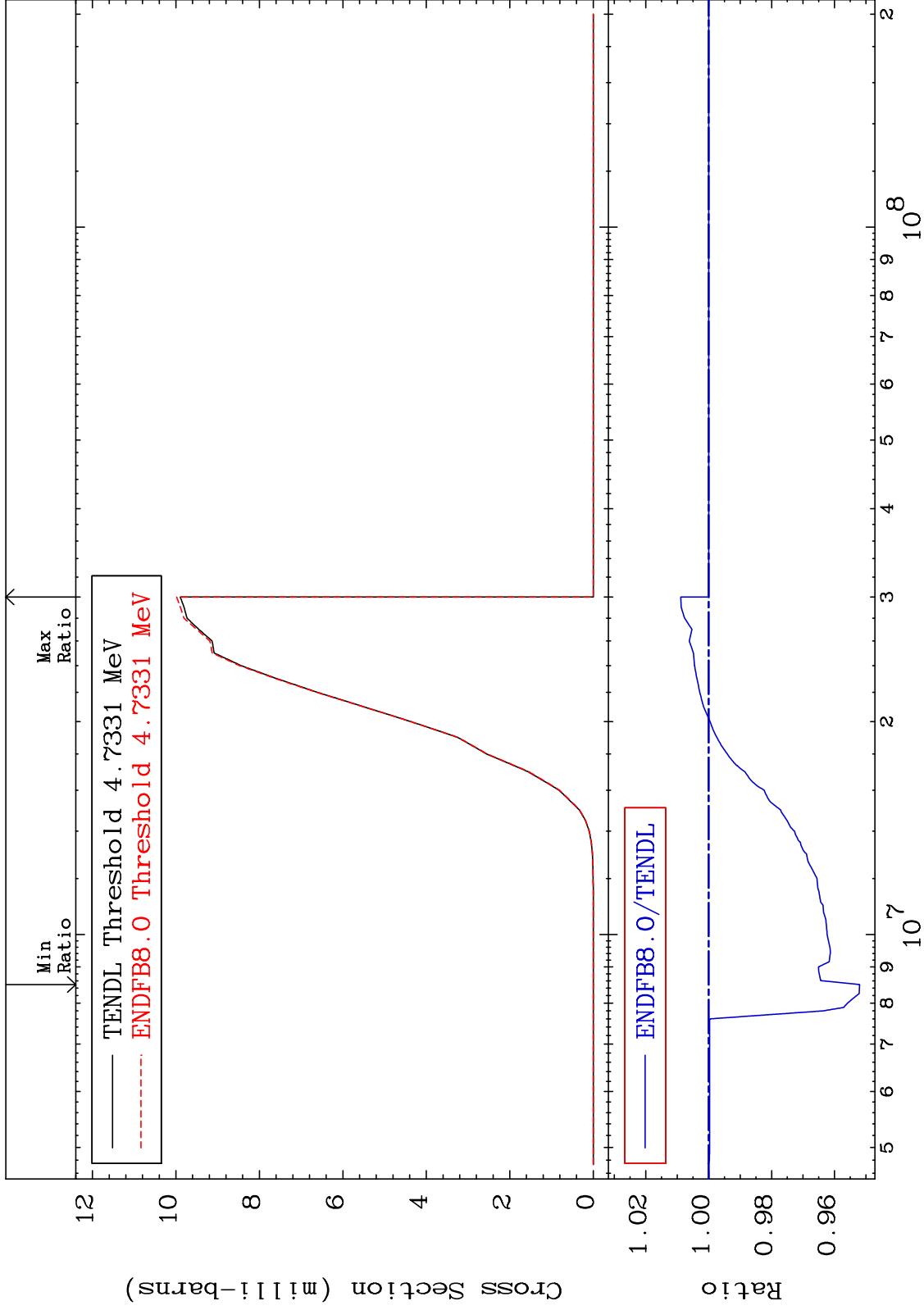


MAT 7834

(n,d):77-Ir-192g

78-Pt-193

Radionuclide Production Cross Section -4.798 To 0.885 %



99

Incident Energy (eV)

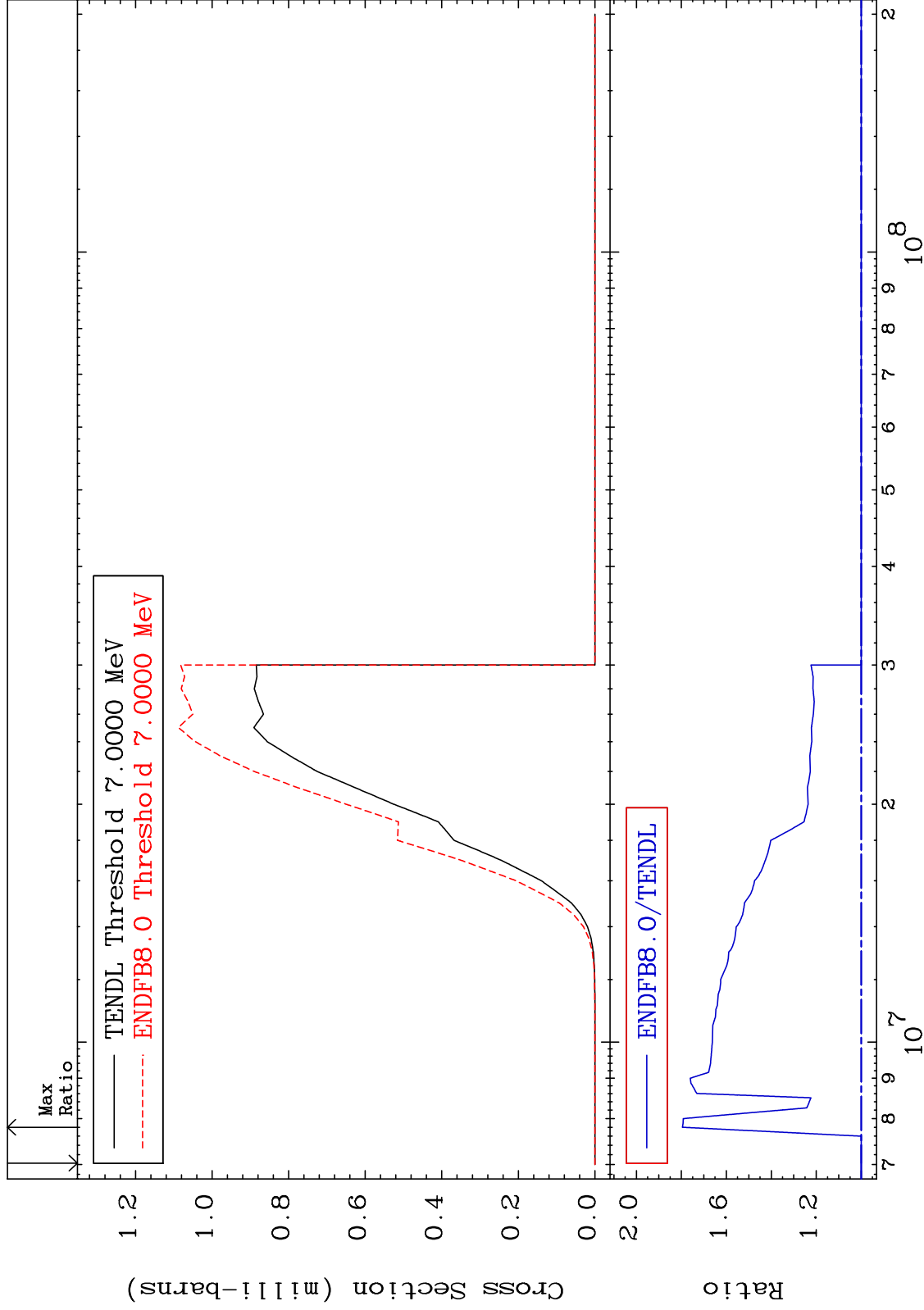
78-Pt-193

MAT 7834

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

78-Pt-193

Radionuclide Production Cross Section -0.019 To 79.50 %



100

Incident Energy (eV)

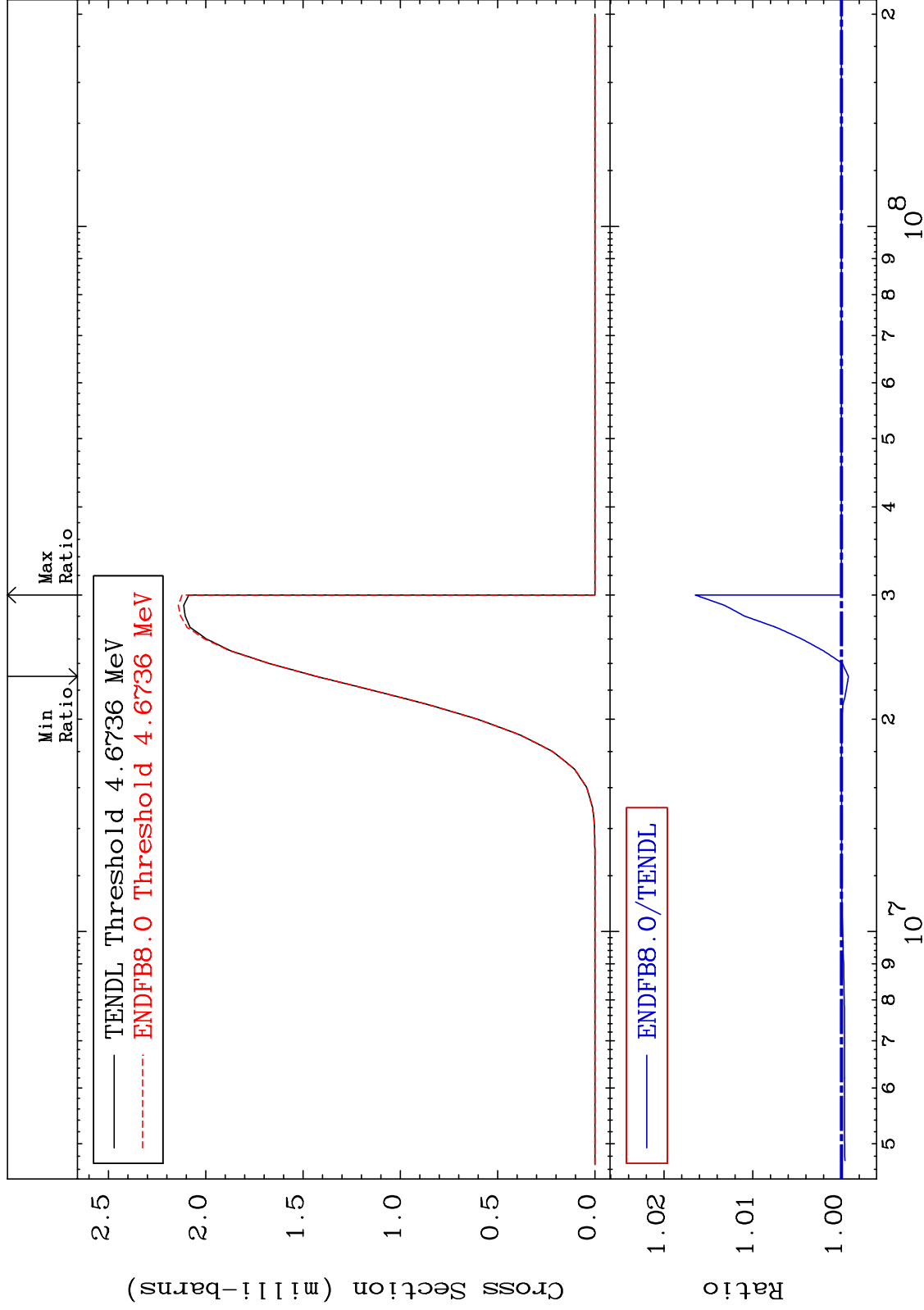
78-Pt-193

MAT 7834

(n,t):77-Ir-191g

78-Pt-193

Radionuclide Production Cross Section -0.079 To 1.647 %



101

Incident Energy (eV)

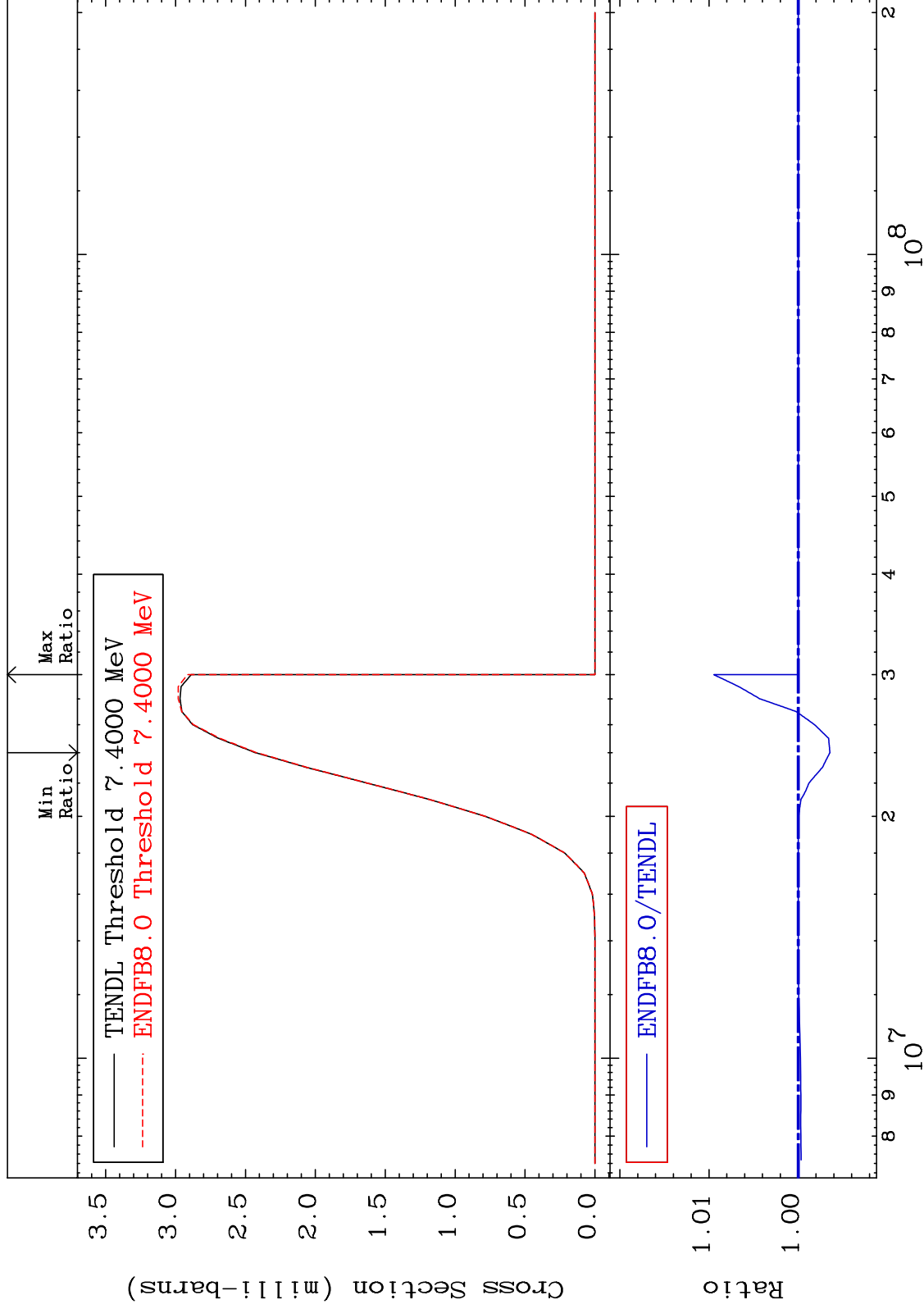
78-Pt-193

MAT 7834

(n, t): 77-Ir-191m3

78-Pt-193

Radionuclide Production Cross Section -0.356 To 0.946 %

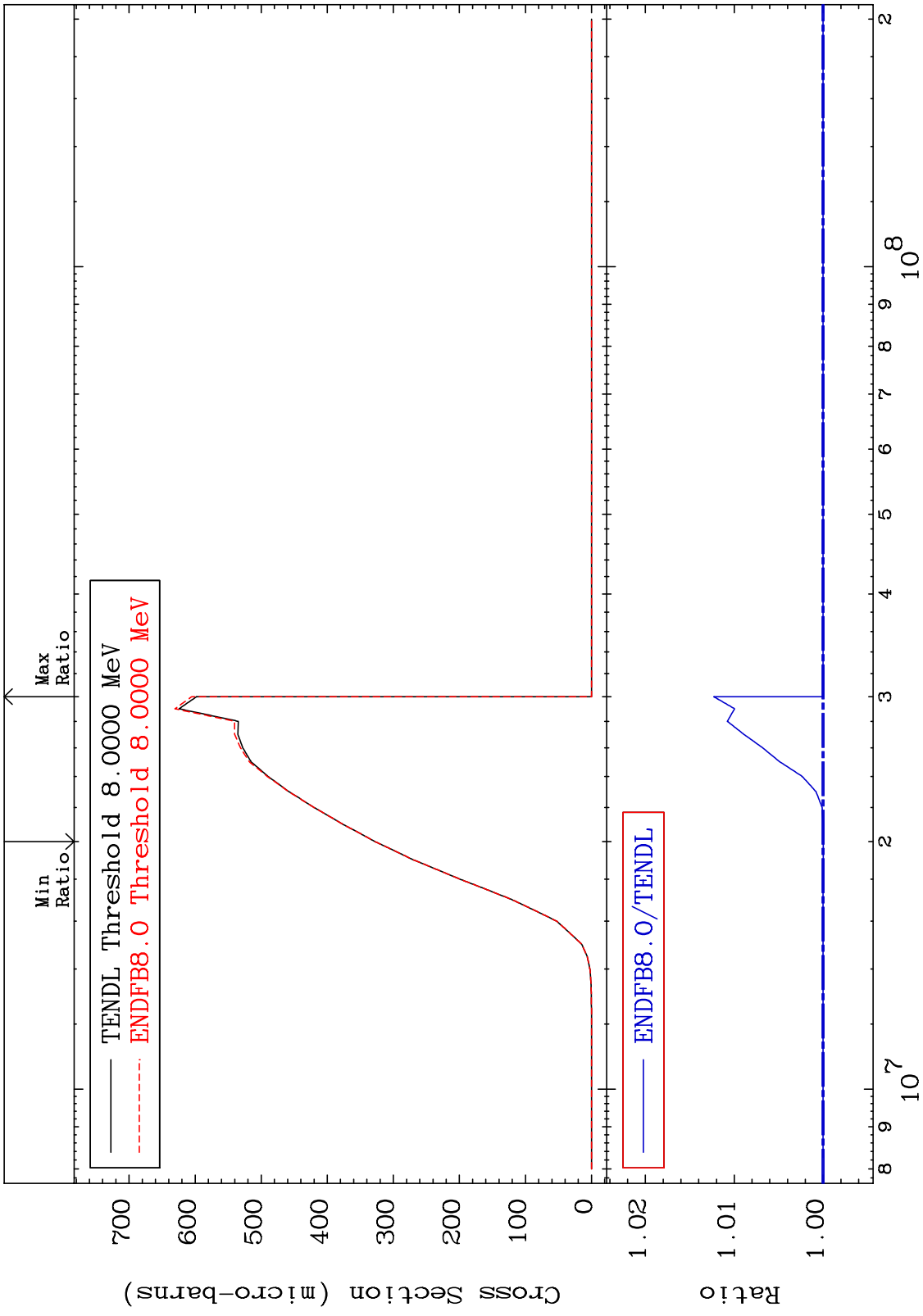


102

Incident Energy (eV)

78-Pt-193

MAT 7834 (n, t): 77-Ir-191m5 78-Pt-193
 Radionuclide Production Cross Section 0.000 To 1.231 %

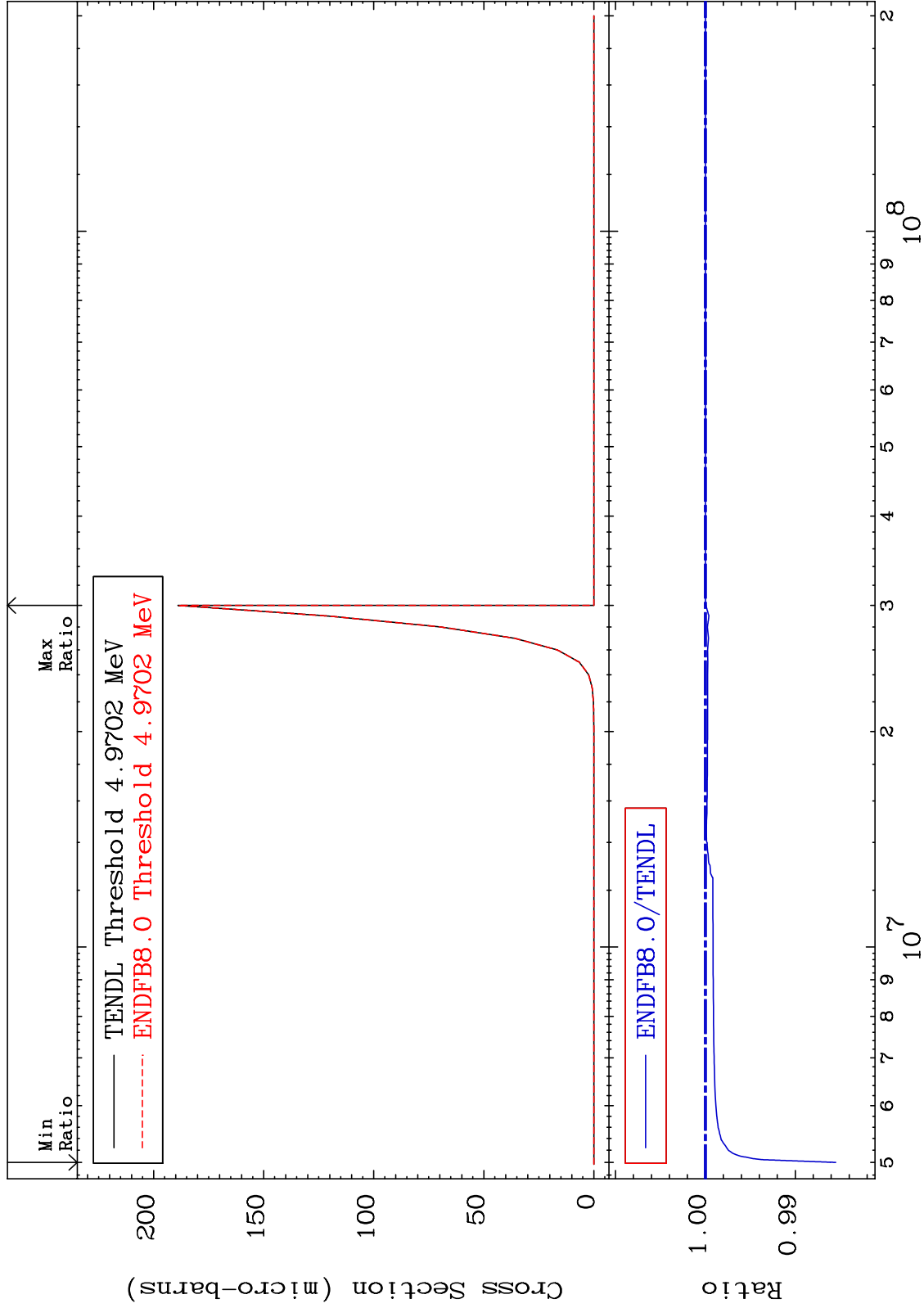


MAT 7834

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

78-Pt-193

Radionuclide Production Cross Section -1.449 To 0.000 %



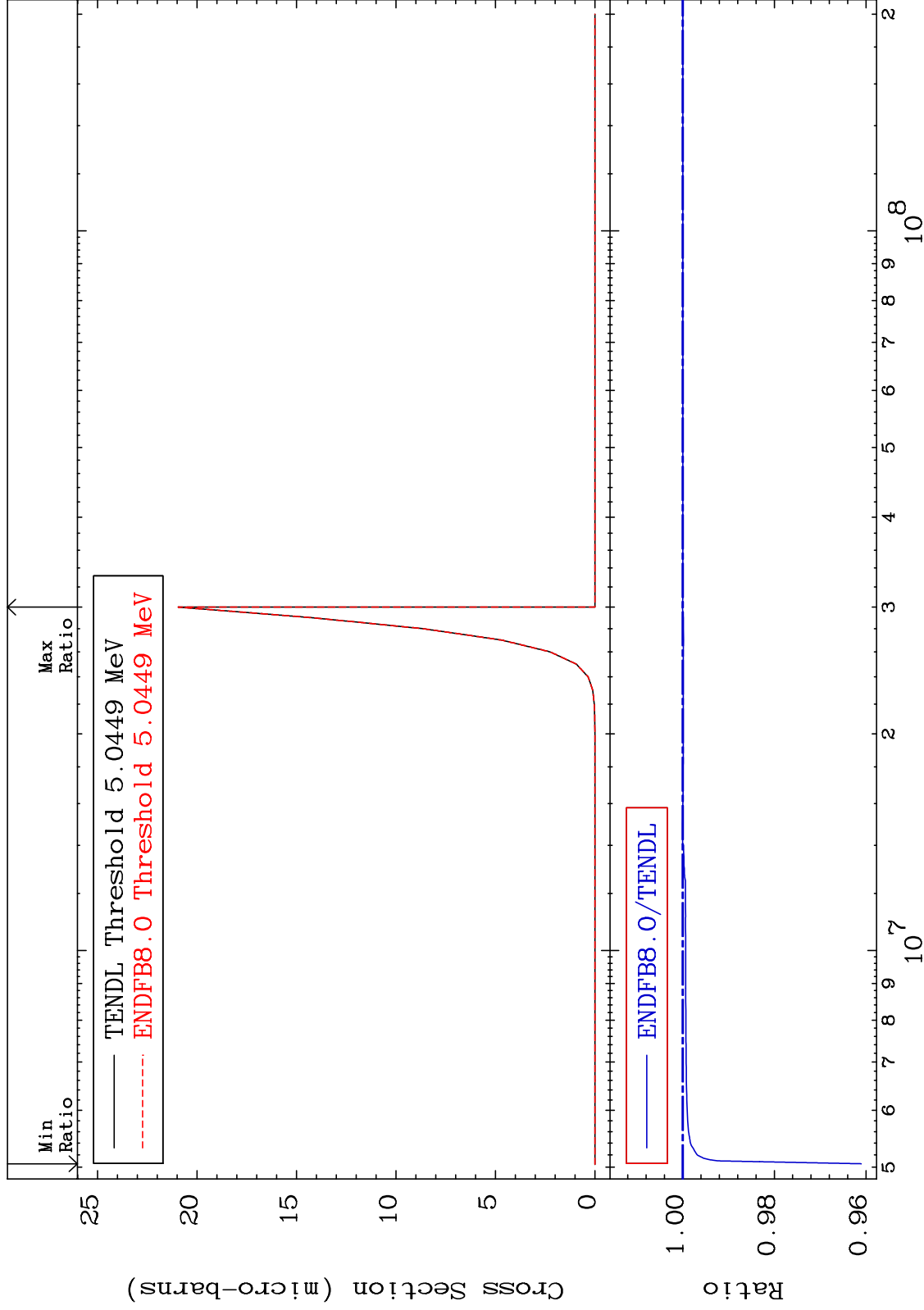
104

MAT 7834

(n,He-3):76-Os-191m1

78-Pt-193

Radionuclide Production Cross Section -3.897 To 0.006 %



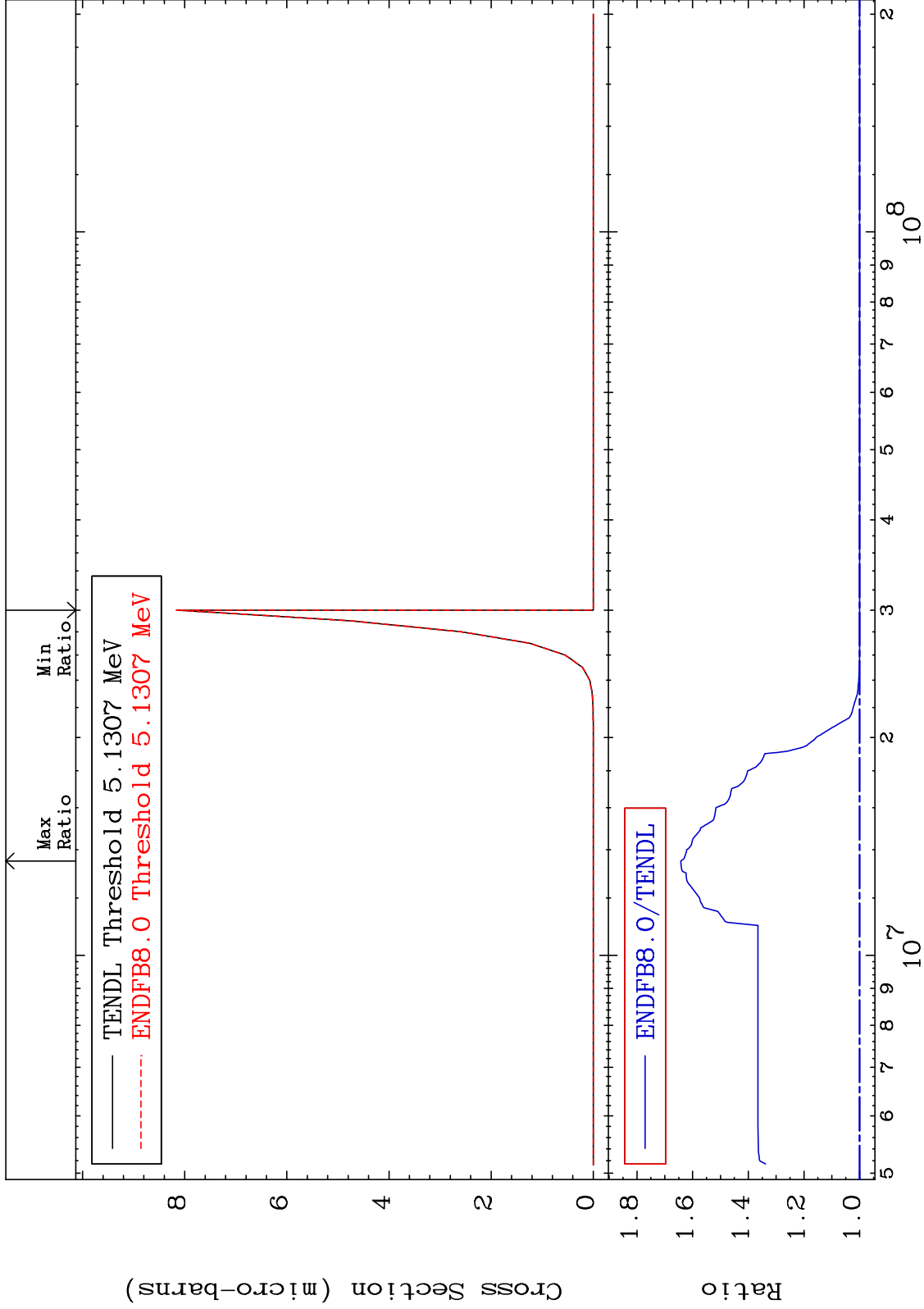
105

Incident Energy (eV)

78-Pt-193

MAT 7834

(n,2p):76-Os-192g 78-Pt-193
Radionuclide Production Cross Section 0.000 To 64.25 %

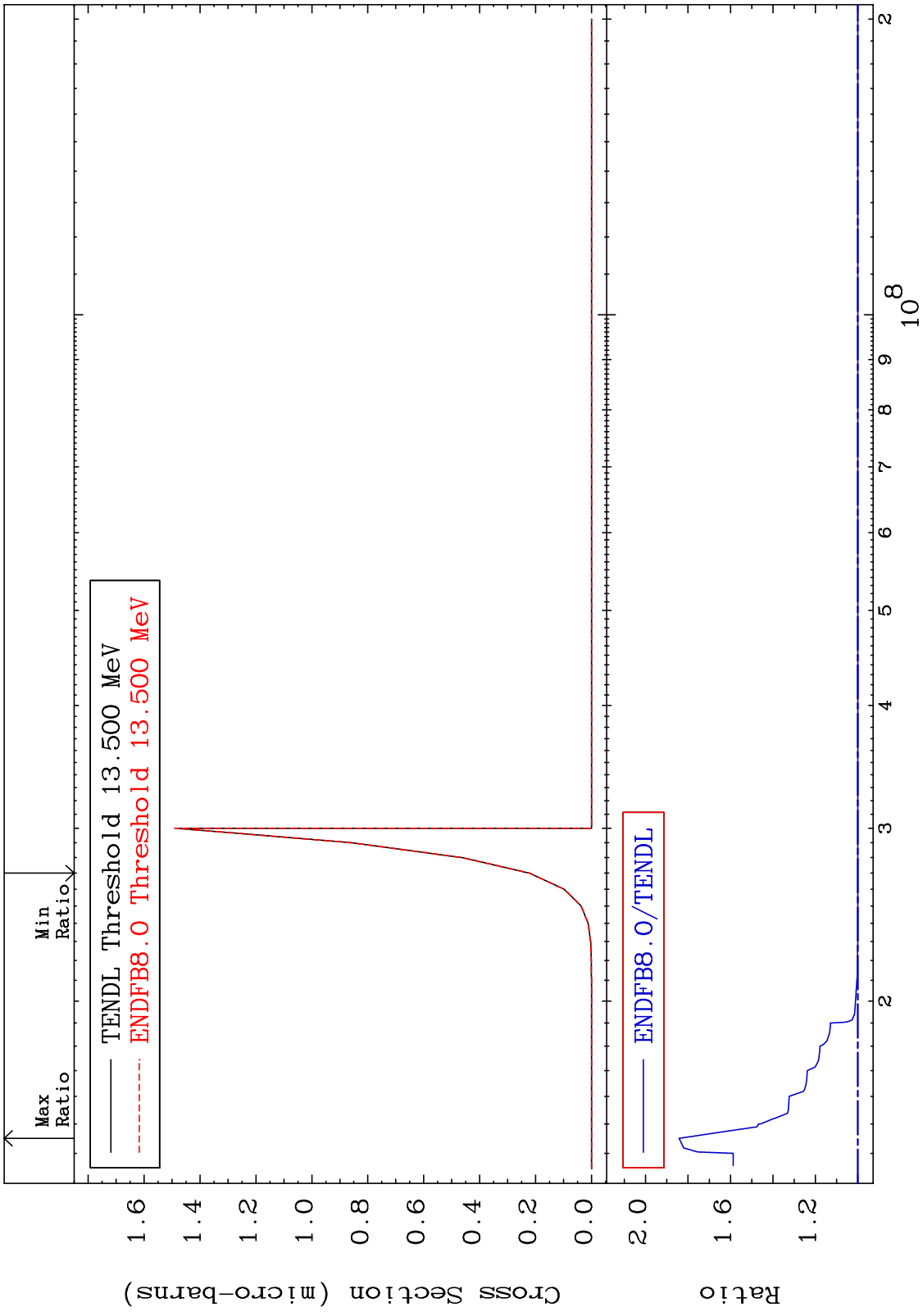


106

Incident Energy (eV)

78-Pt-193

MAT 7834 (n,2p):76-0s-192m10 78-Pt-193
 Radionuclide Production Cross Section 0.000 To 84.23 %

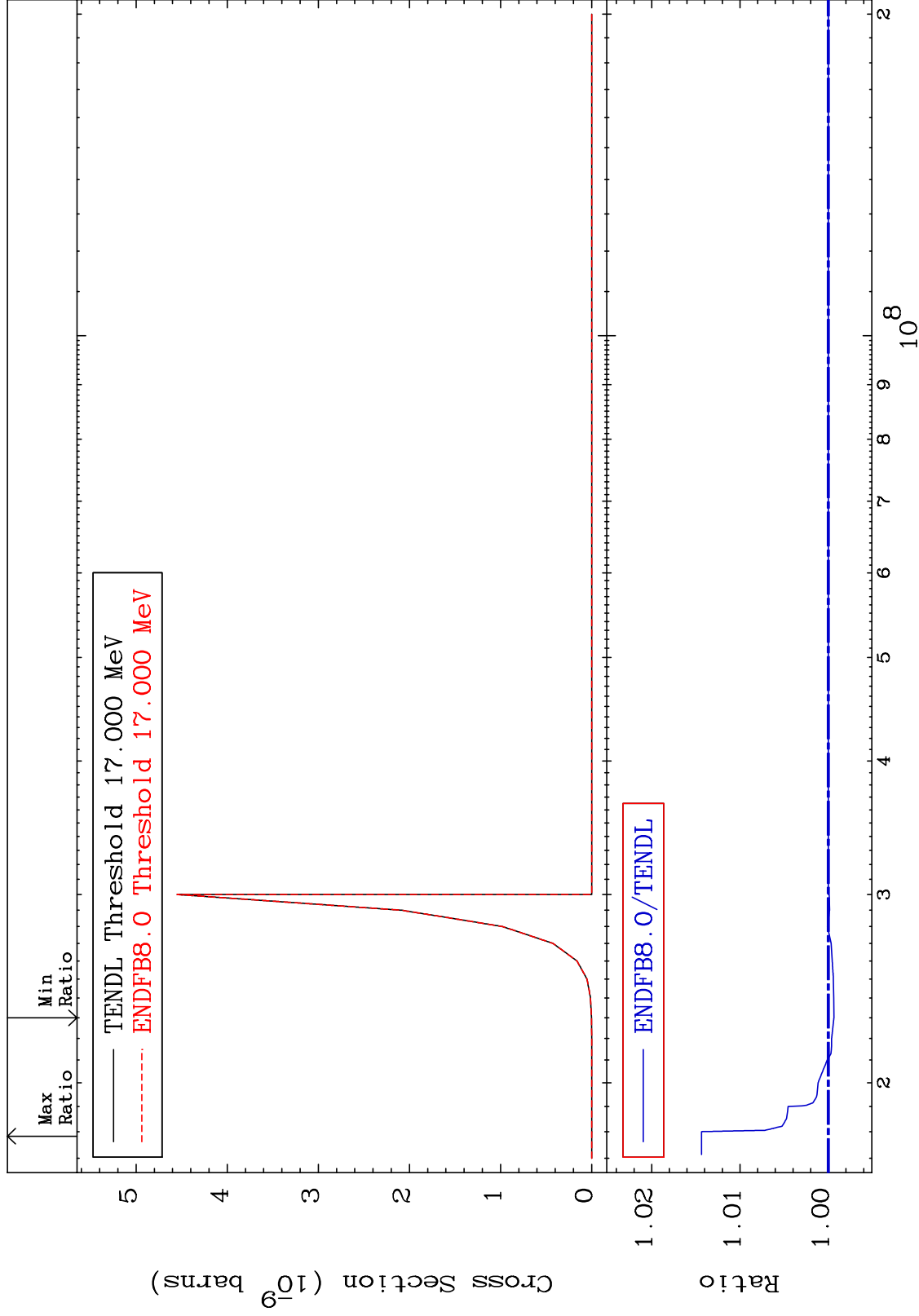


MAT 7834

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

78-Pt-193

Radionuclide Production Cross Section -0.064 To 1.437 %



108

Incident Energy (eV)

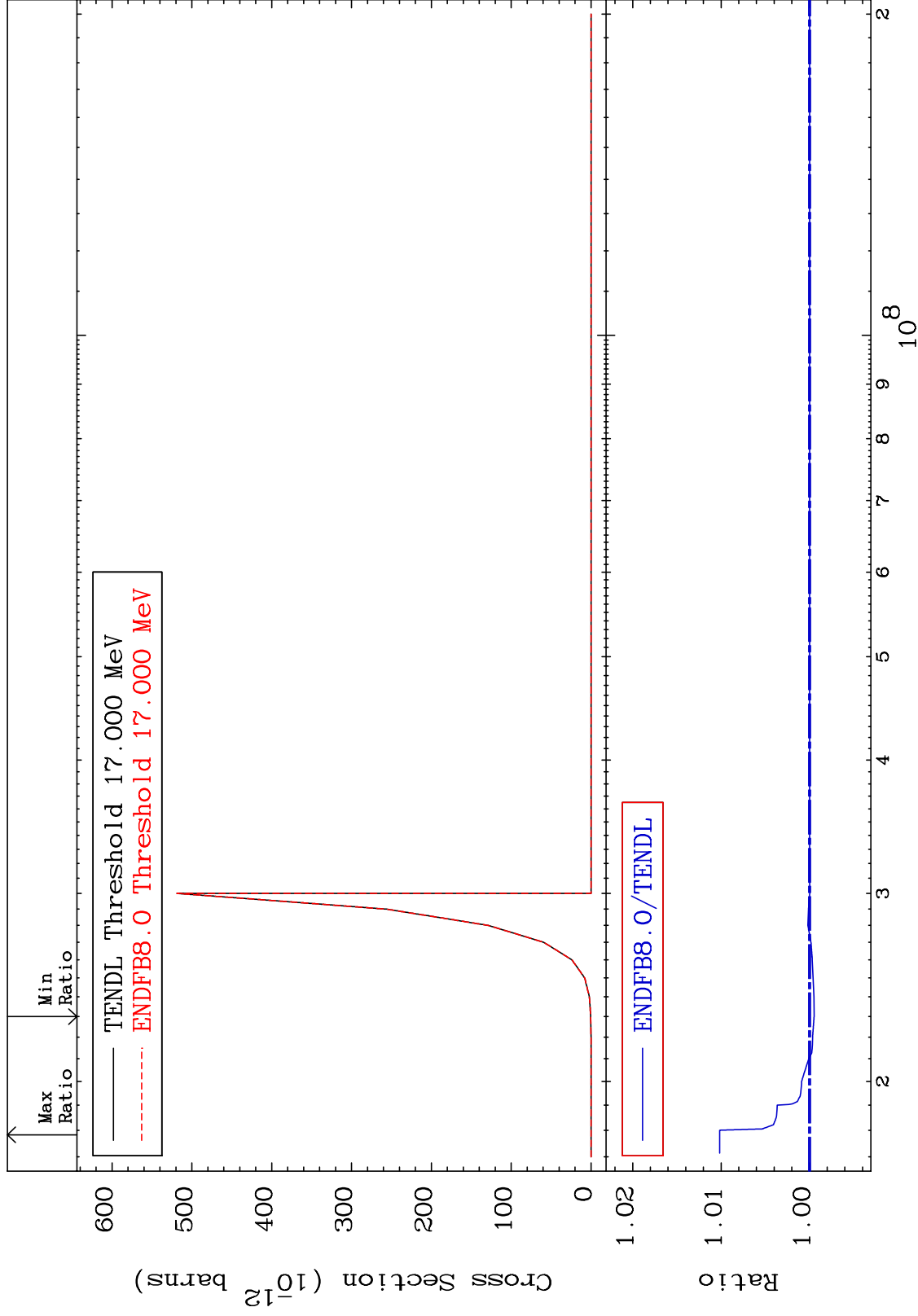
78-Pt-193

MAT 7834

(n,p) d:76-Os-191m1

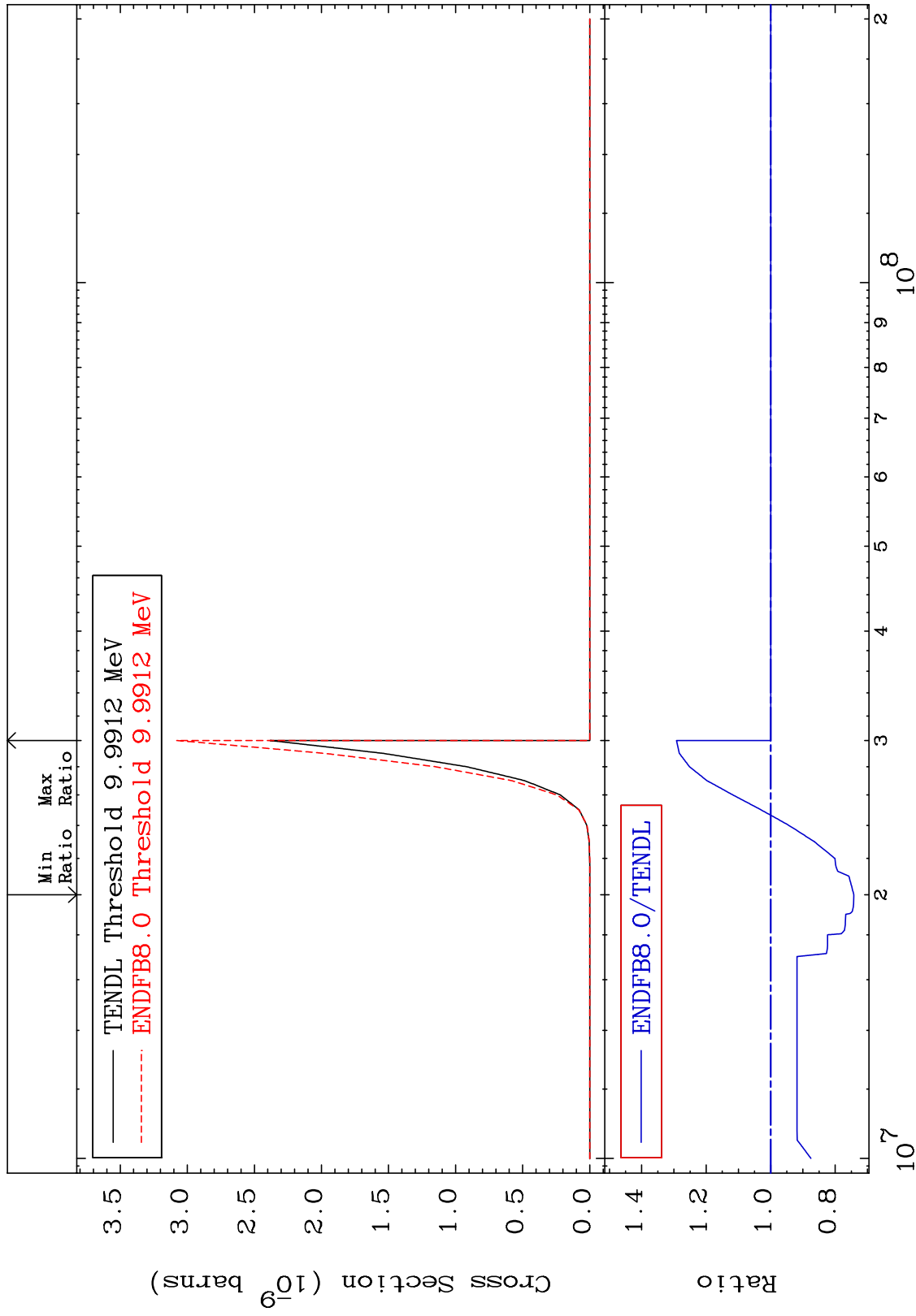
78-Pt-193

Radionuclide Production Cross Section -0.051 To 1.016 %



MAT 7834

(n,p) t:76-0s-190g 78-Pt-193
Radionuclide Production Cross Section -25.78 To 29.19 %



110

Incident Energy (eV)

78-Pt-193