

Program Complot
(Version 2018-1)

by

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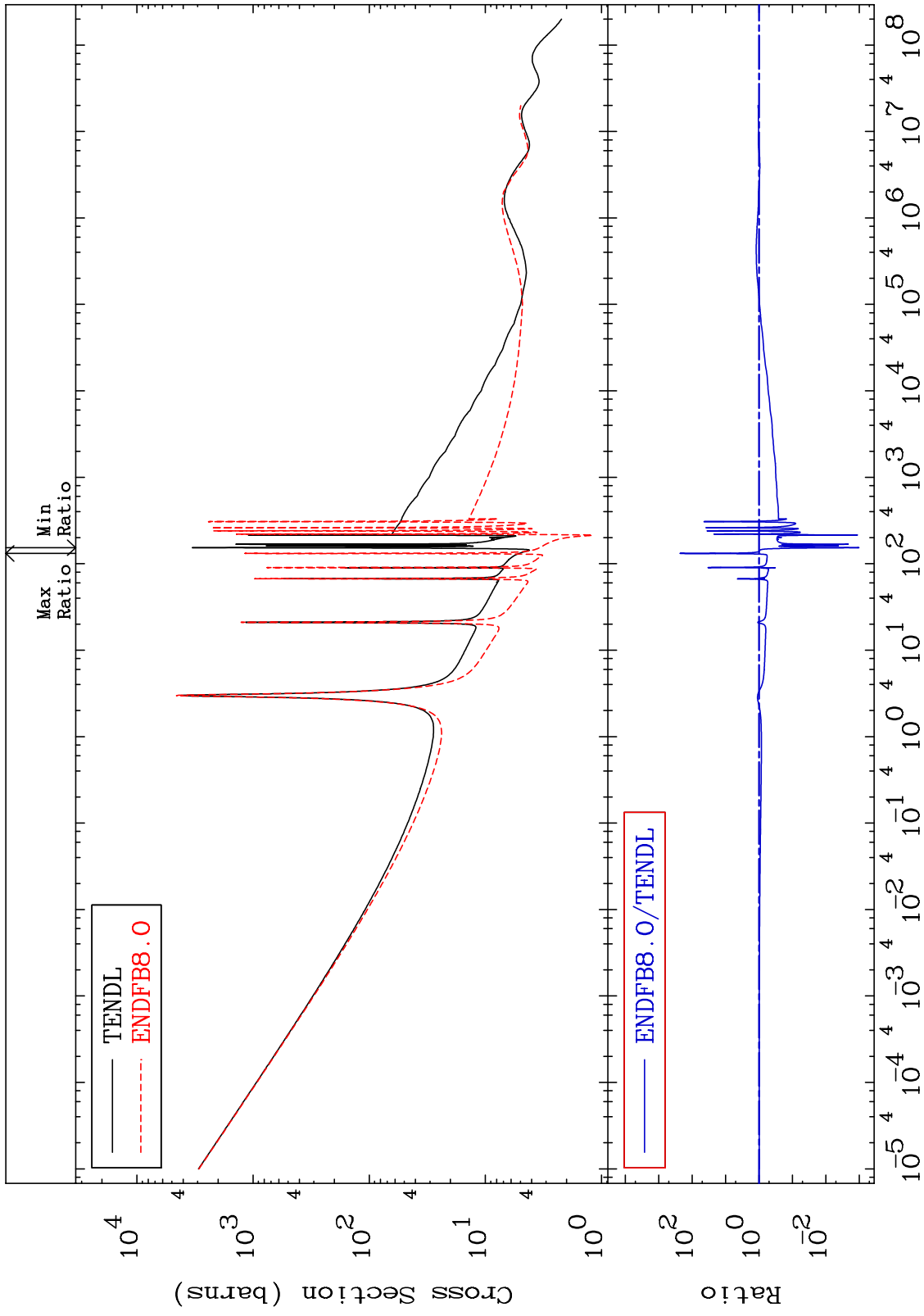
Press Mouse Button to Start

MAT 5725

Total
Cross Section

57-La-138

-99.90 To 9999. %



Incident Energy (eV)

57-La-138

1

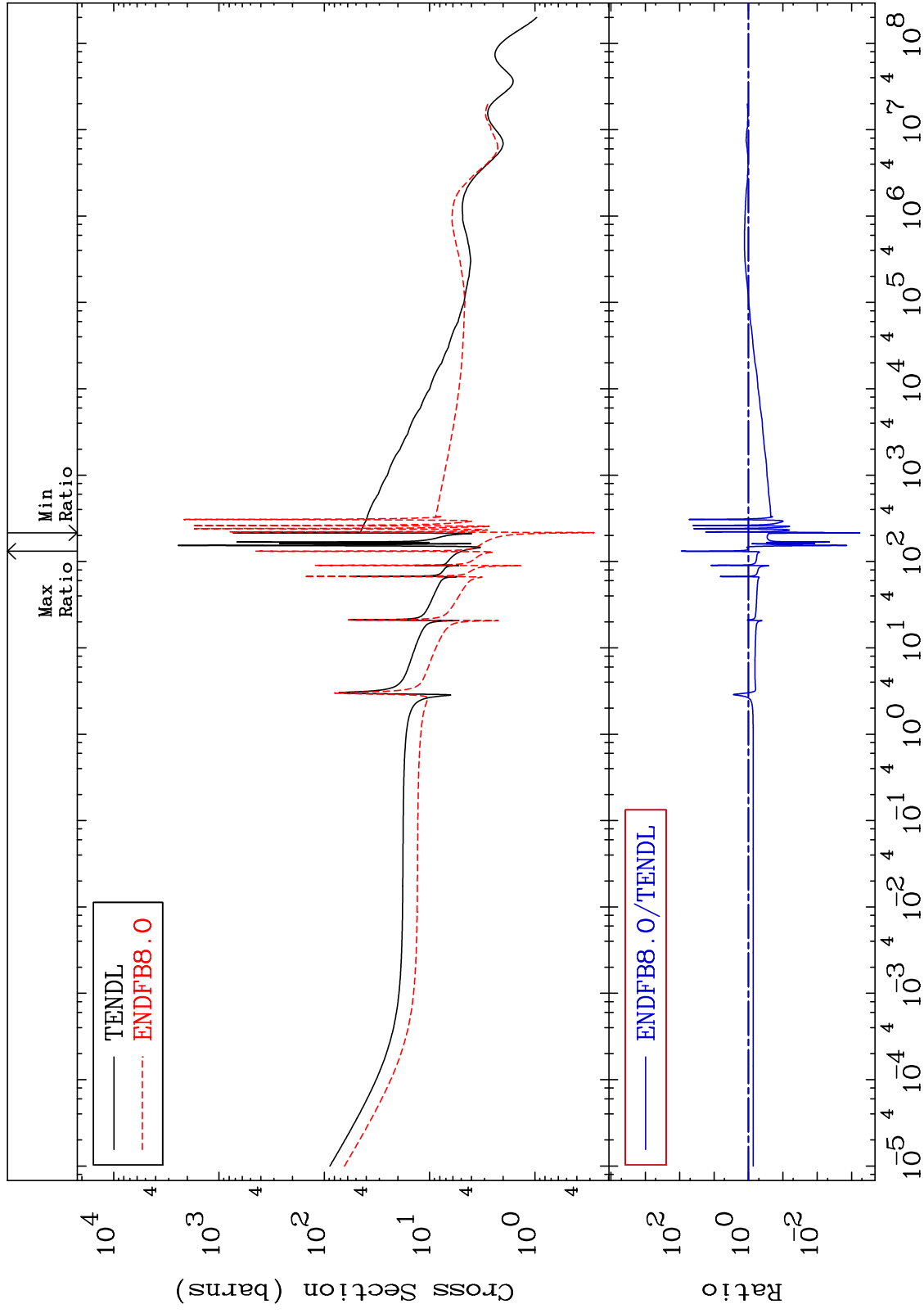
MAT 5725

Elastic

Cross Section

57-La-138

-99.94 To 8926. %

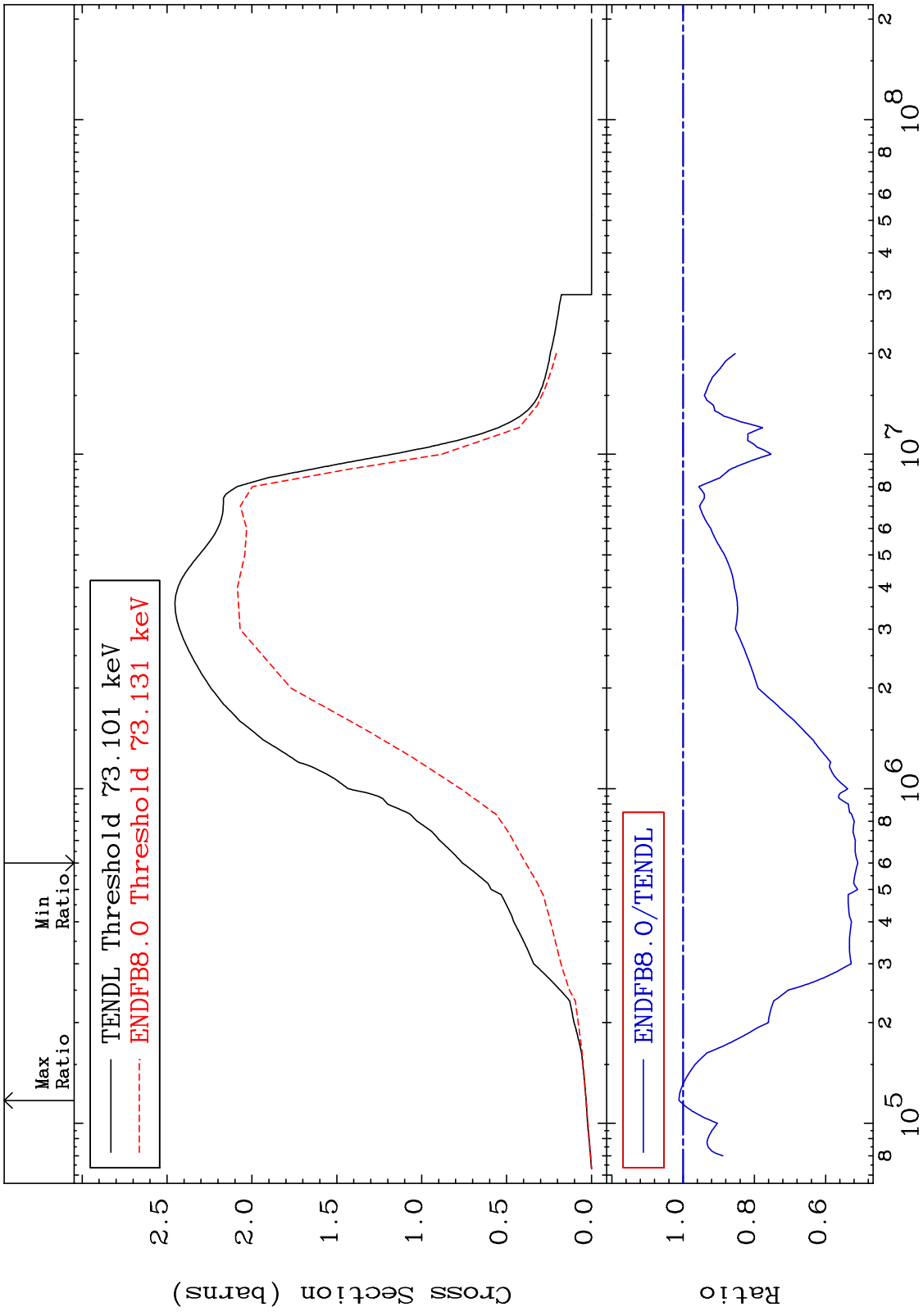


2

Incident Energy (eV)

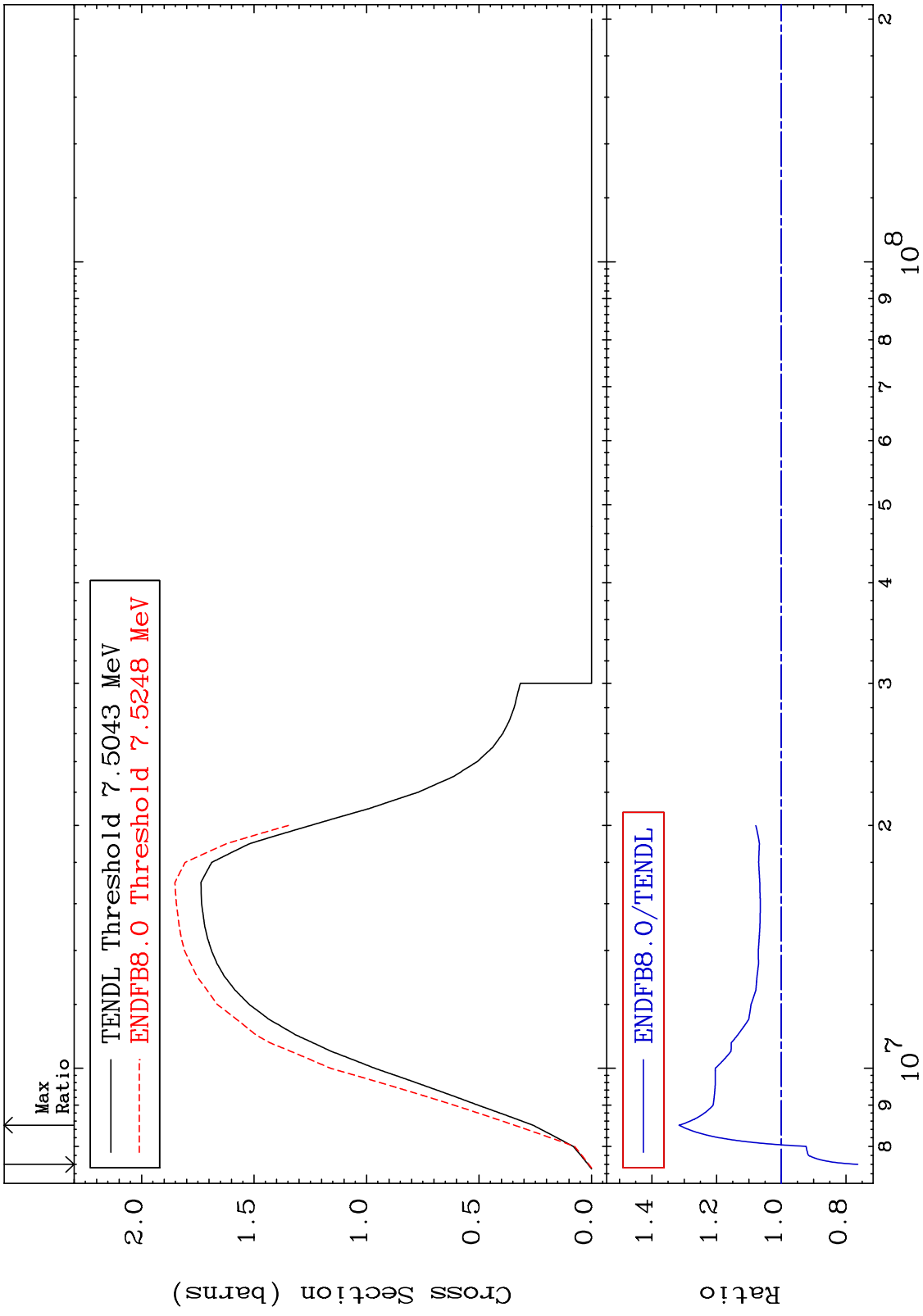
57-La-138

MAT 5725 Inelastic Cross Section 57-La-138 -49.05 To 1.131 %

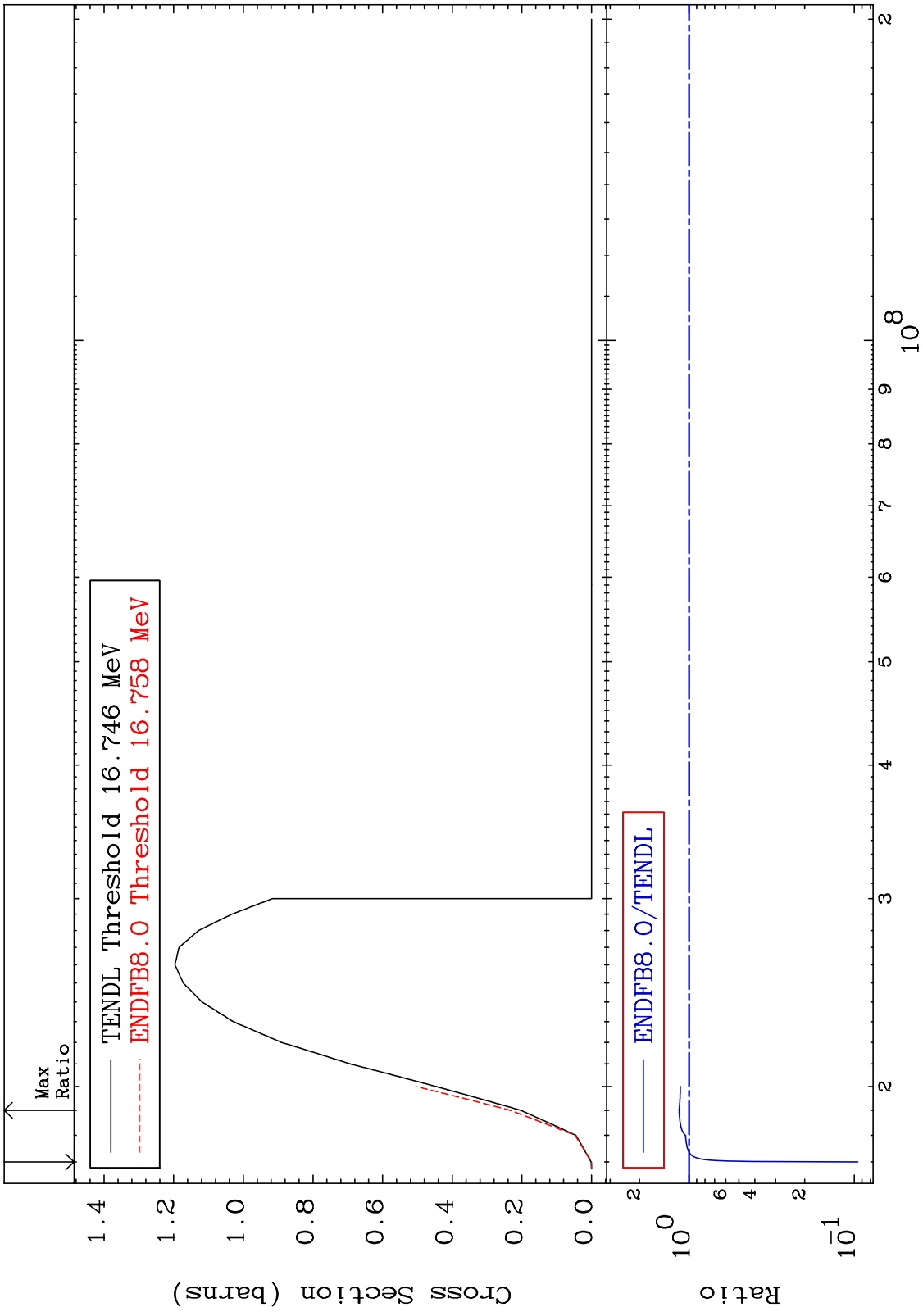


3 57-La-138

MAT 5725 (n,2n) Cross Section 57-La-138 -23.69 To 31.61 %

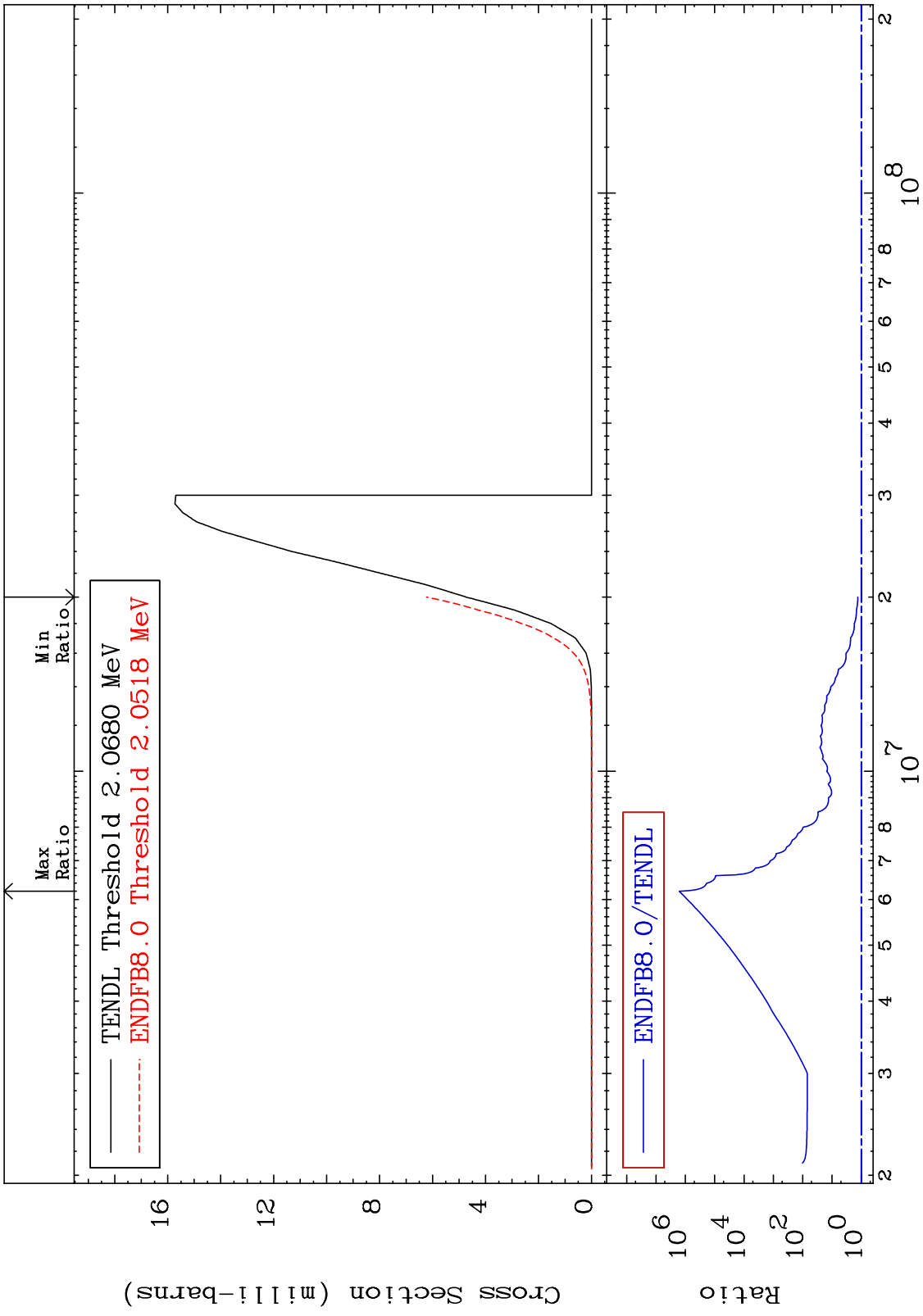


MAT 5725 (n,3n) Cross Section 57-La-138 -90.47 To 14.98 %

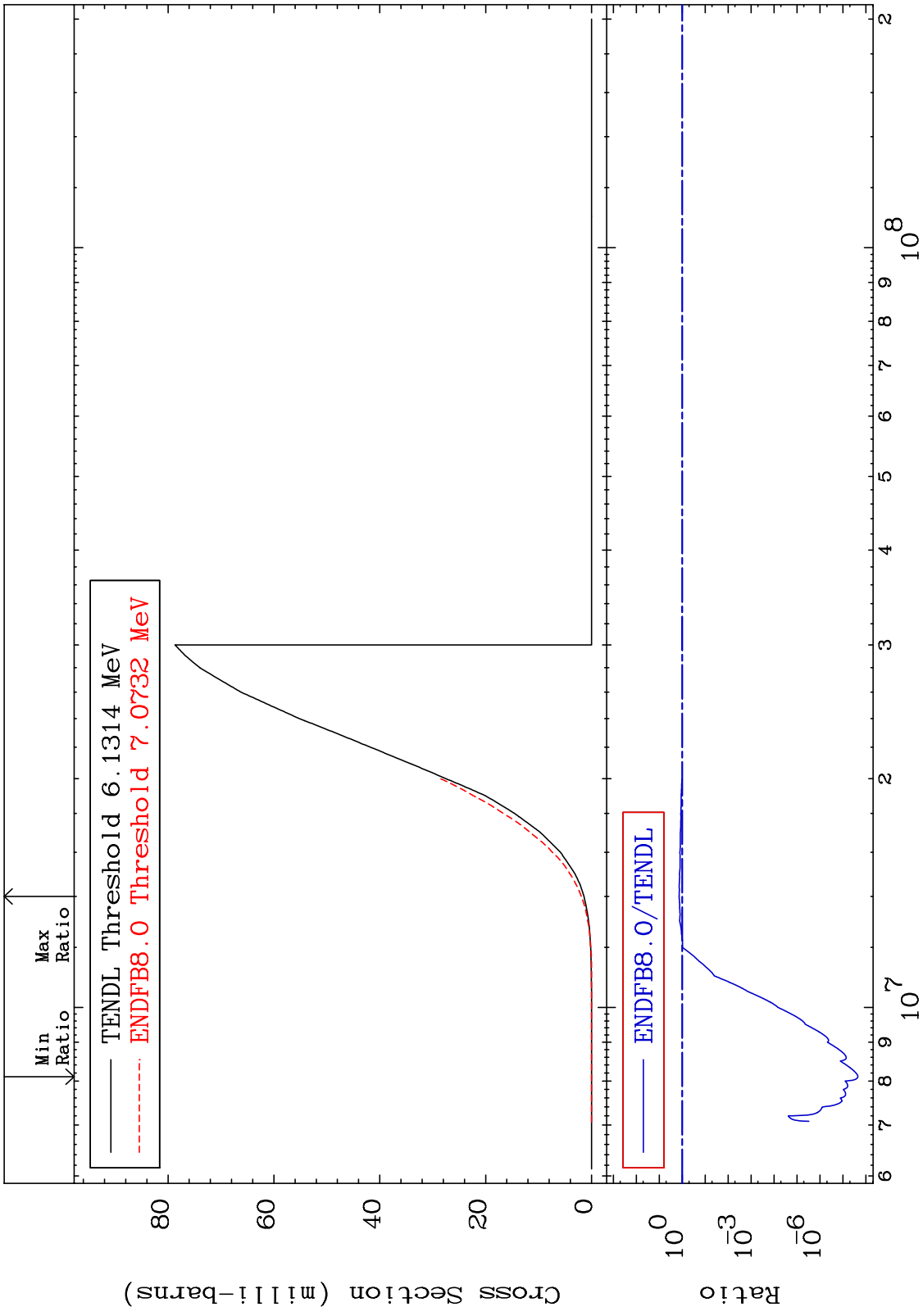


57-La-138

MAT 5725 $(n, n') \alpha$ Cross Section 57-La-138 31.78 To 9999. %

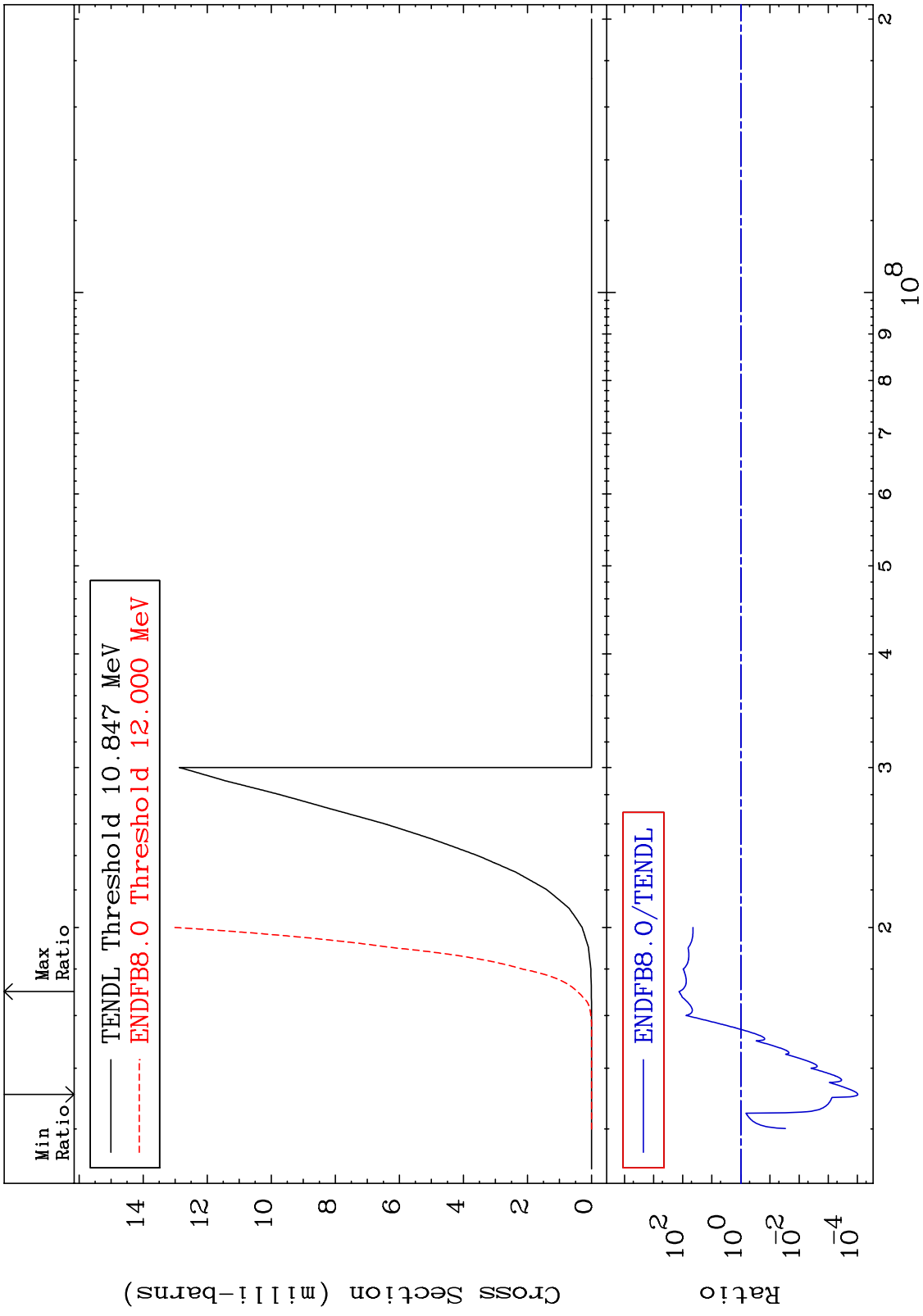


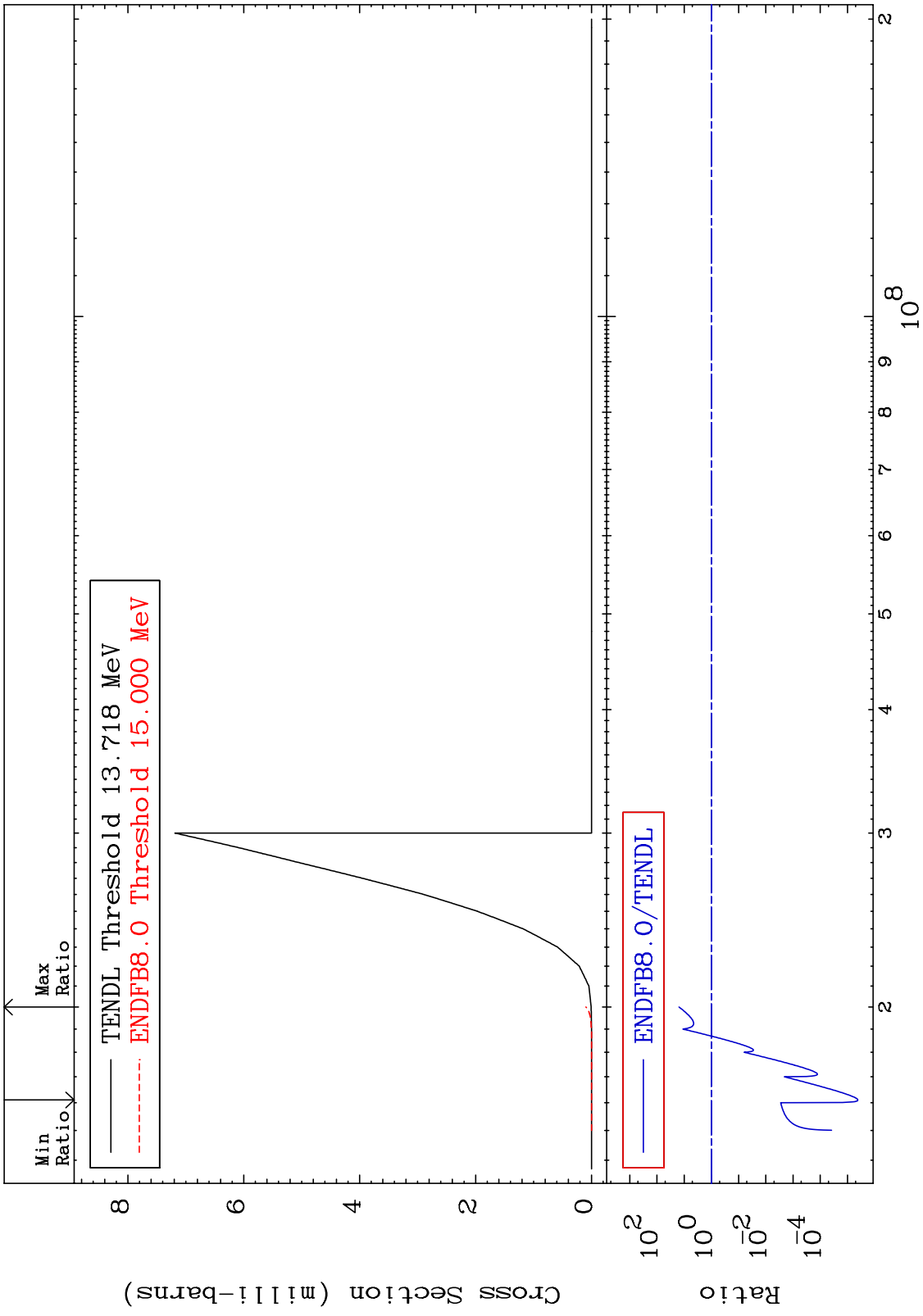
MAT 5725 57-La-138
-100.0 To 37.07 %
 (n,n') p
 Cross Section



7 57-La-138

MAT 5725 (n,n') d 57-La-138
 Cross Section -99.99 To 9999. %

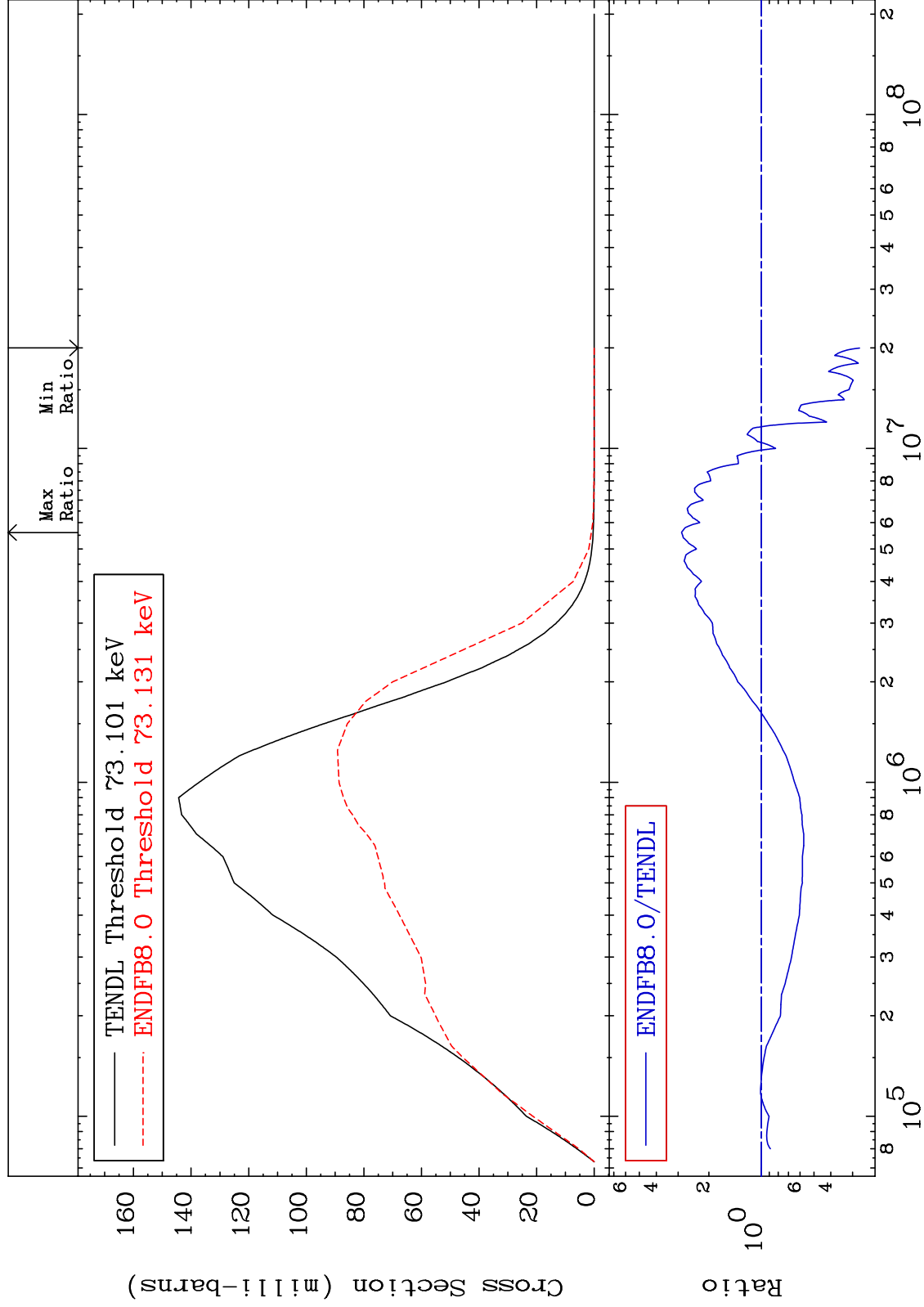




MAT 5725

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

57-La-138
-72.71 To 186.8 %

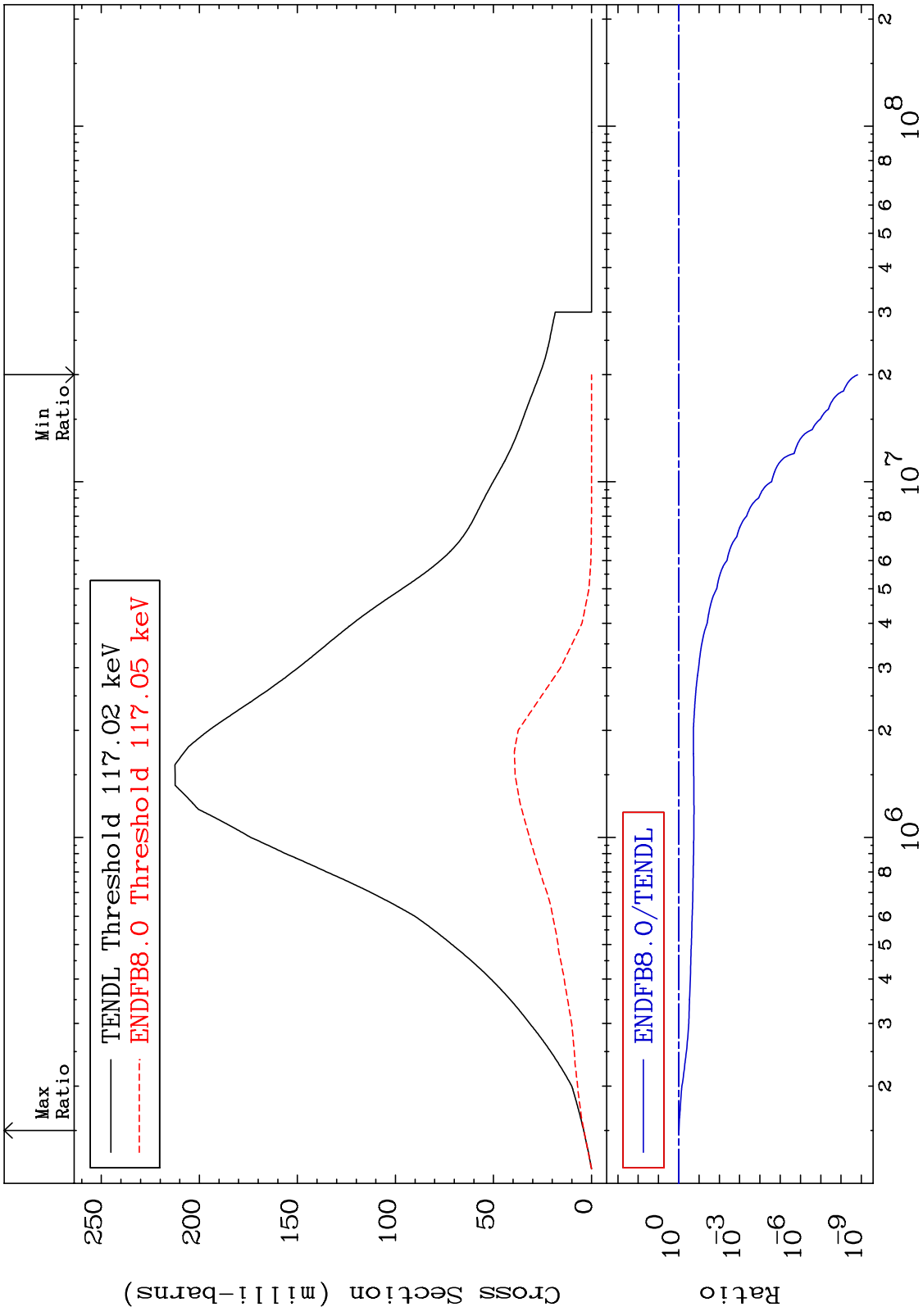


10

Incident Energy (eV)

57-La-138

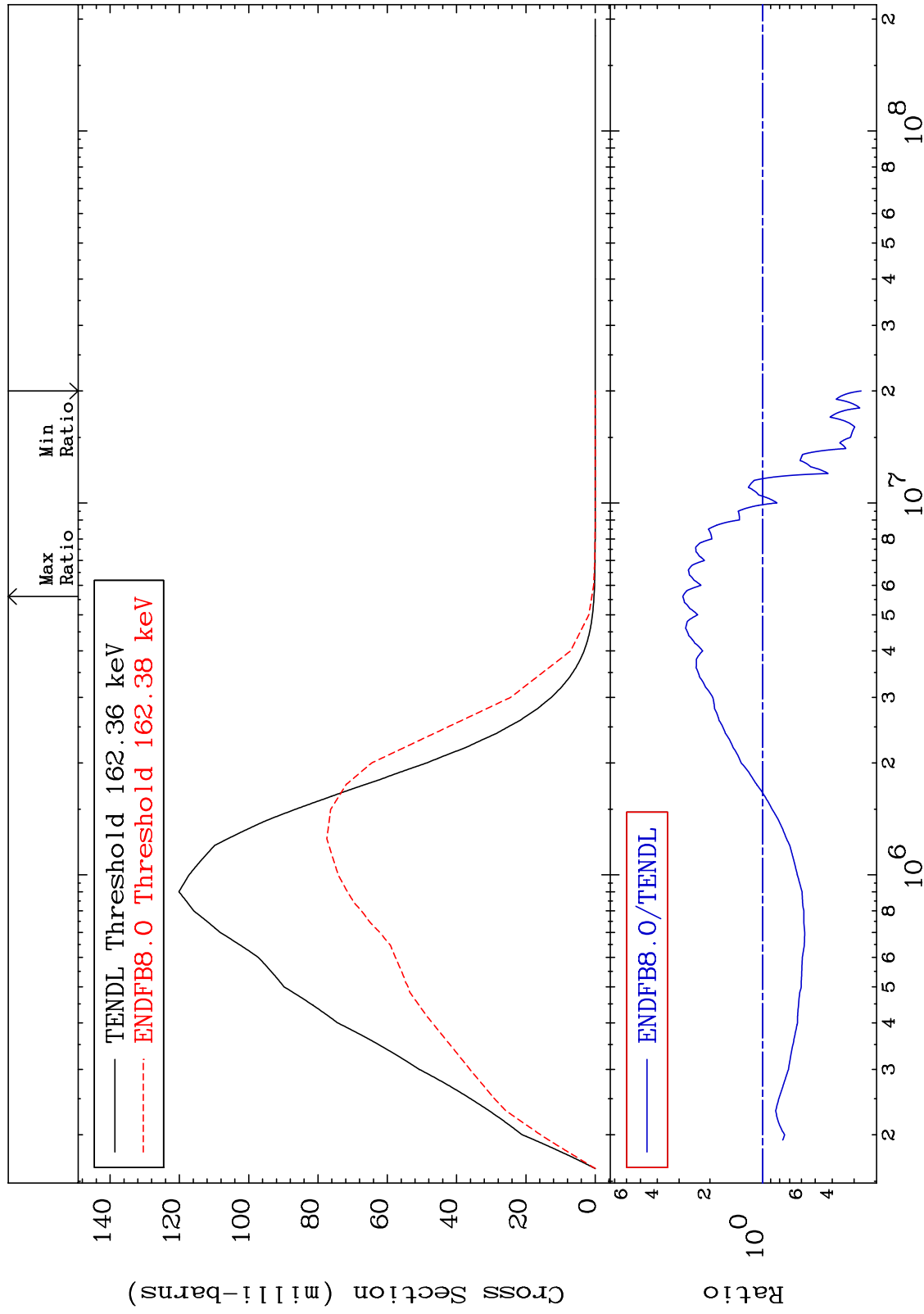
MAT 5725 MT= 52 (n,n') Level Cross Section 57-La-138 -100.0 To -3.040%



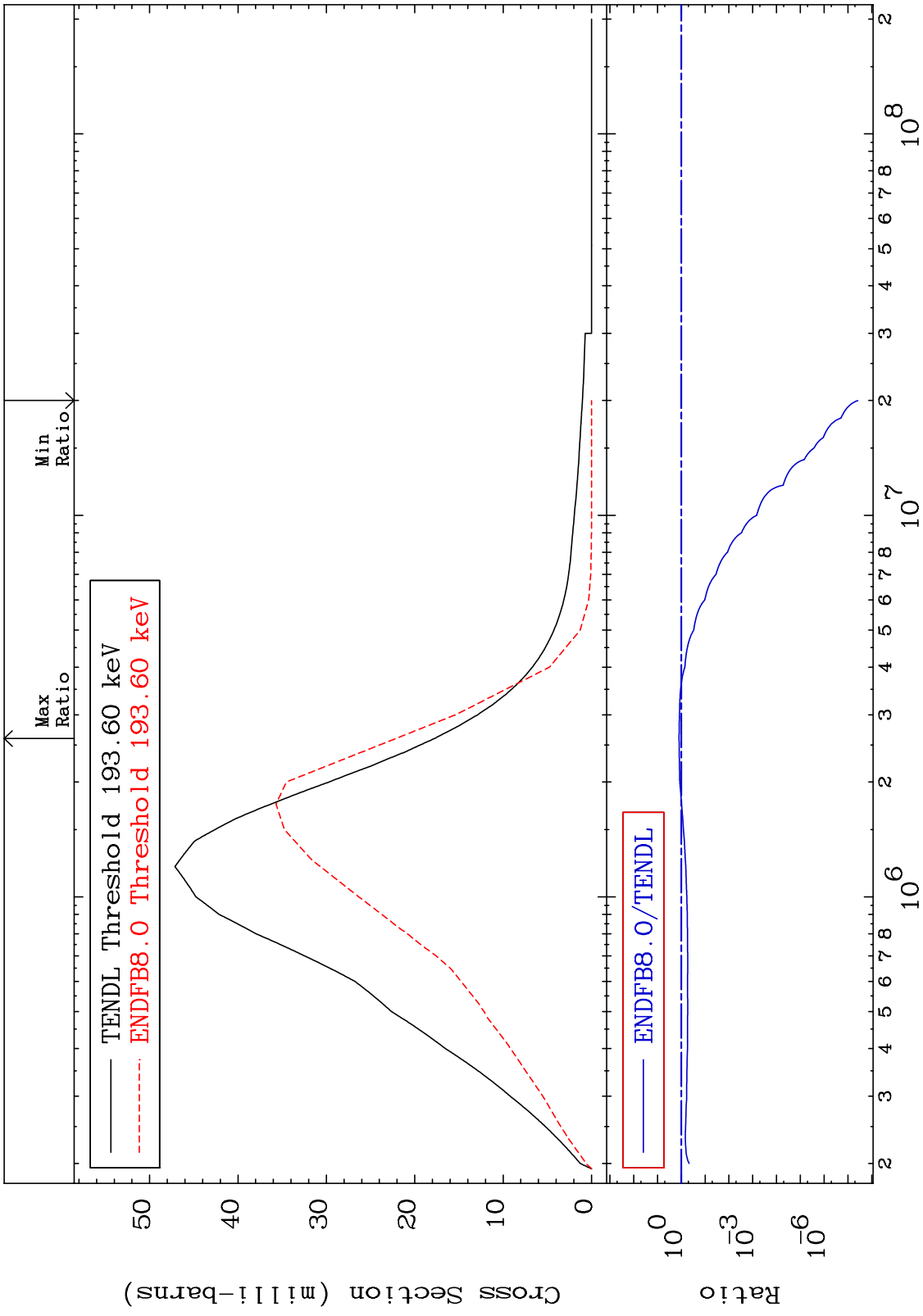
MAT 5725

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

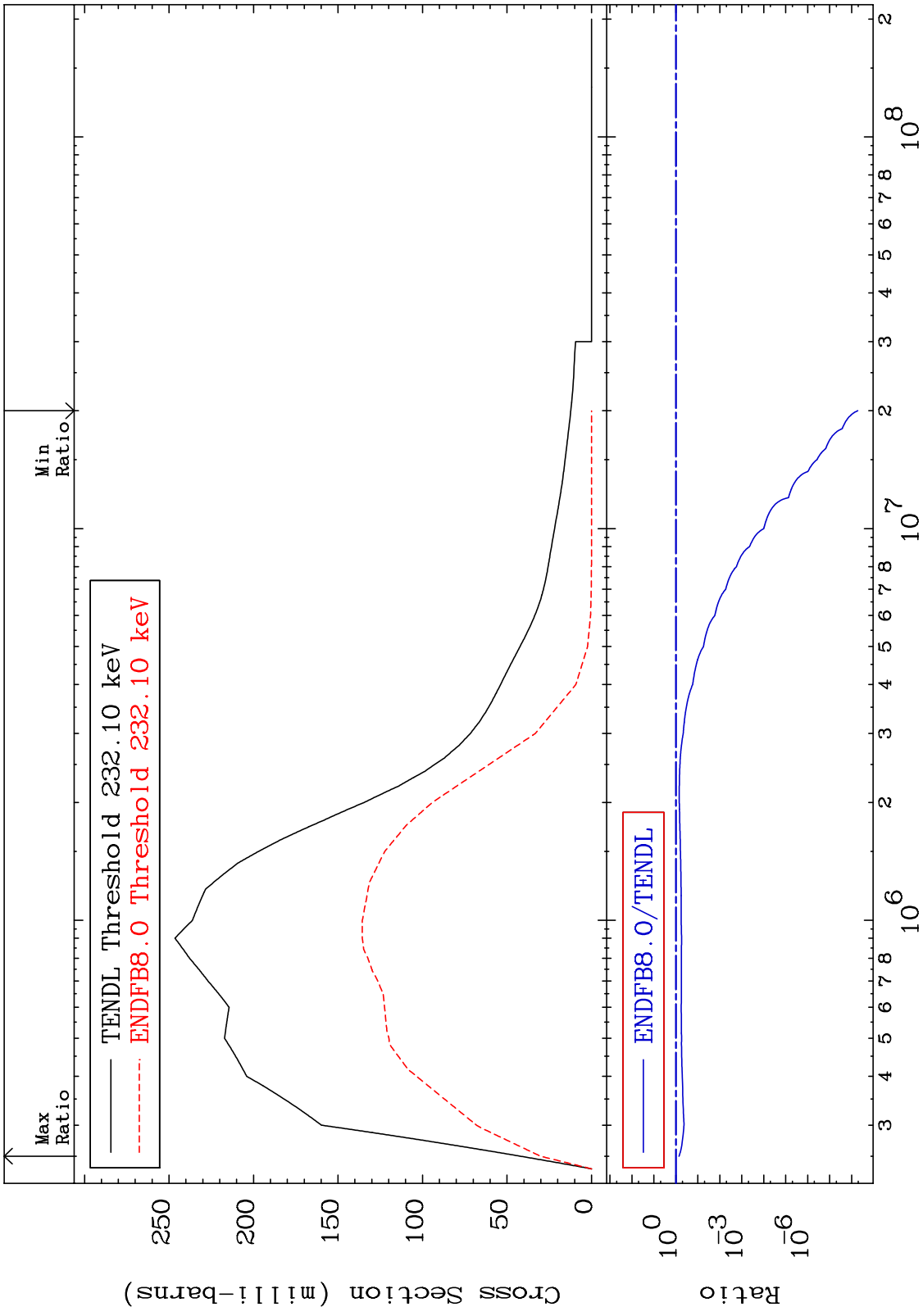
57-La-138
-72.73 To 186.4 %



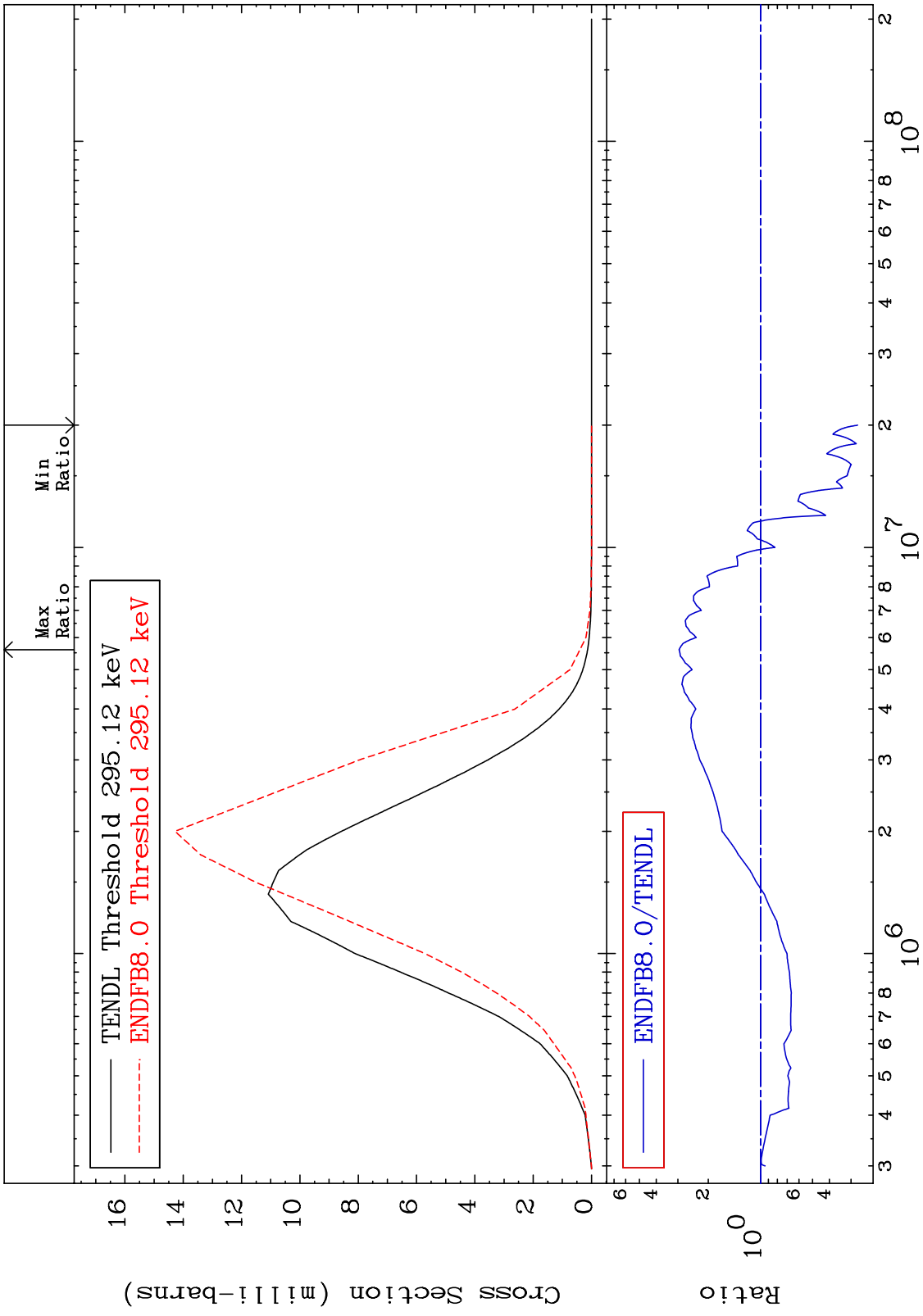
MAT 5725 MT= 54 (n,n') Level Cross Section 57-La-138 -100.0 To 24.65 %



MAT 5725 MT= 55 (n,n') Level Cross Section 57-La-138 -100.0 To -28.31%



MAT 5725 MT= 56 (n,n') Level Cross Section 57-La-138 -72.60 To 195.1 %

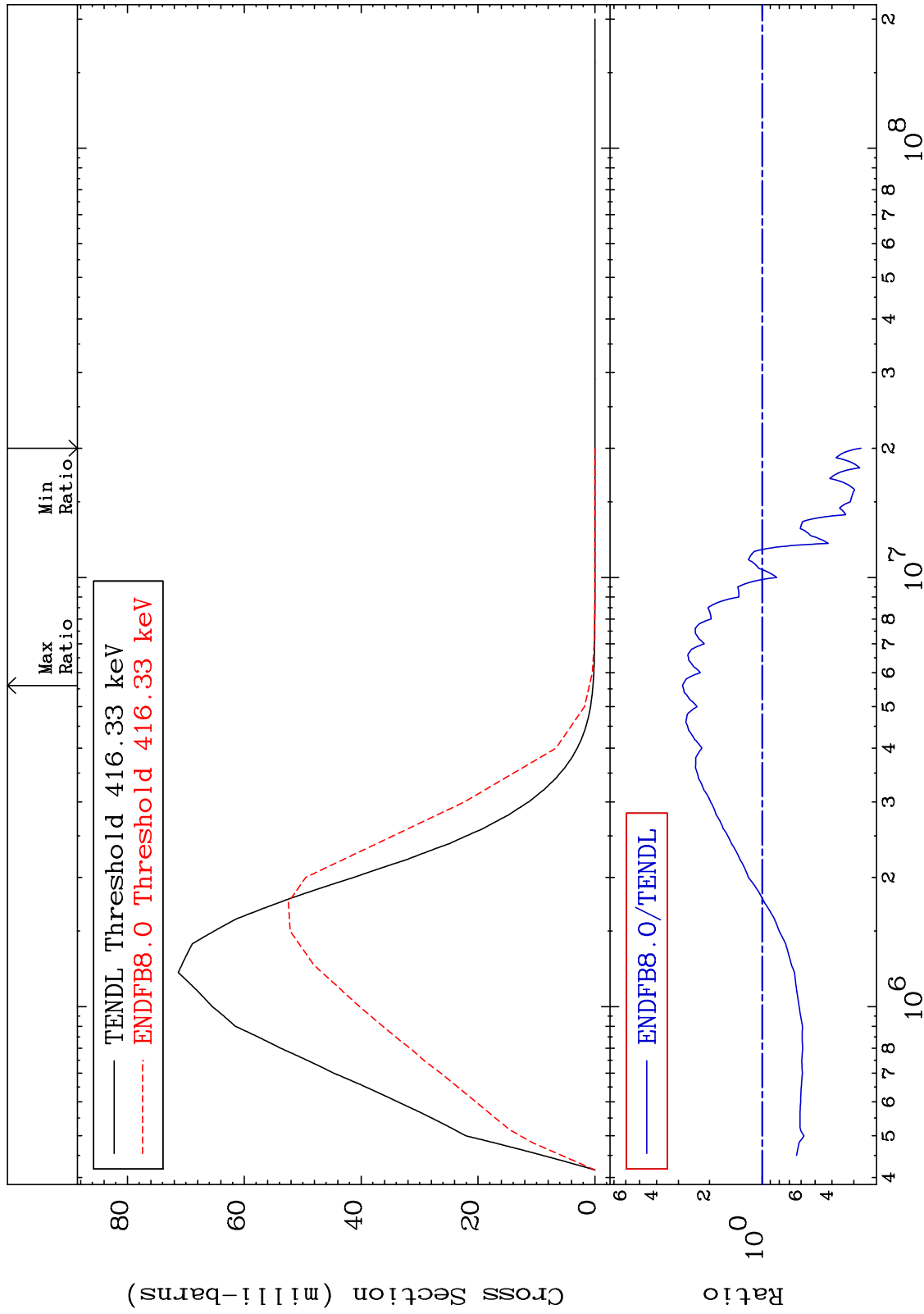


15 57-La-138

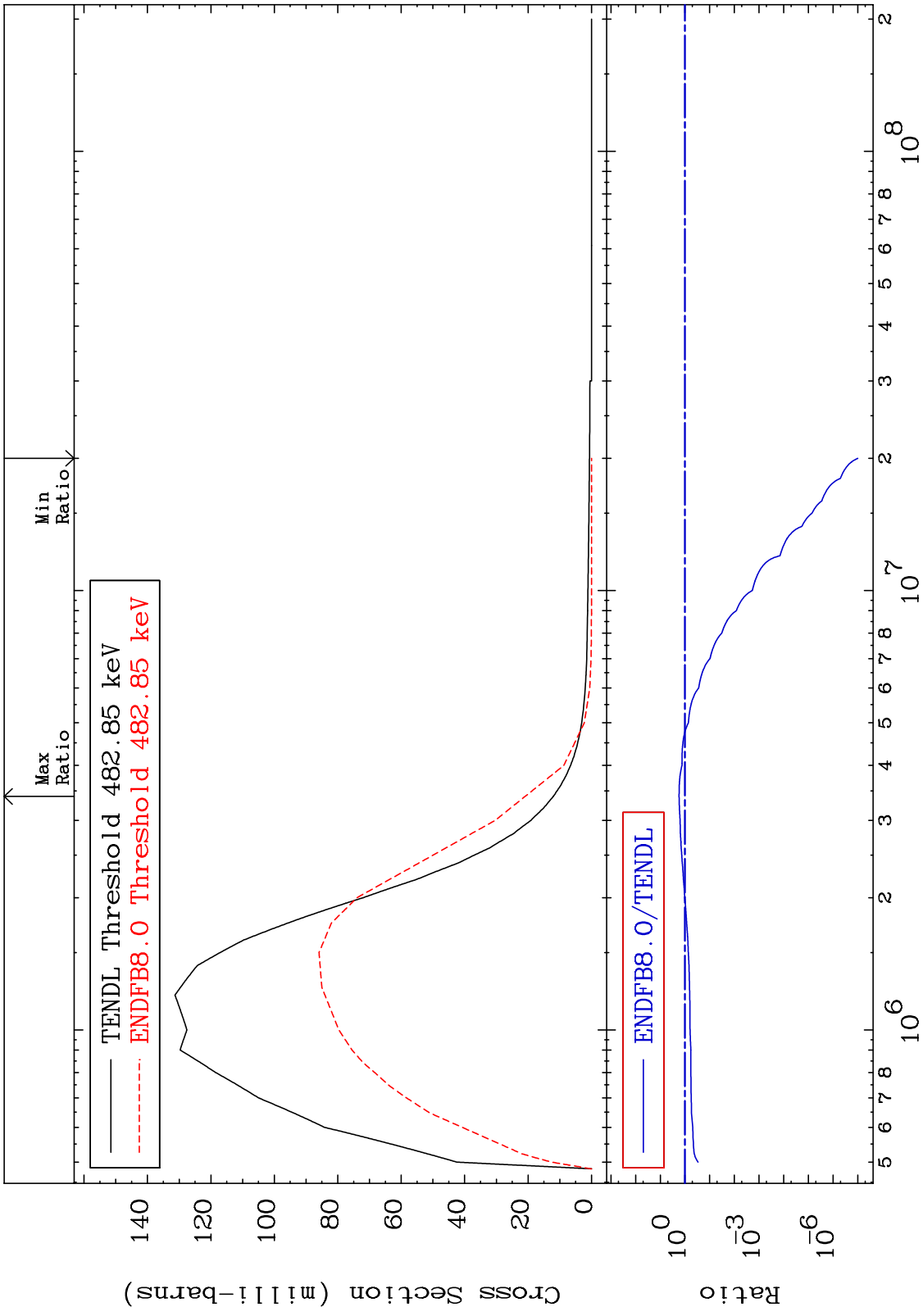
MAT 5725

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

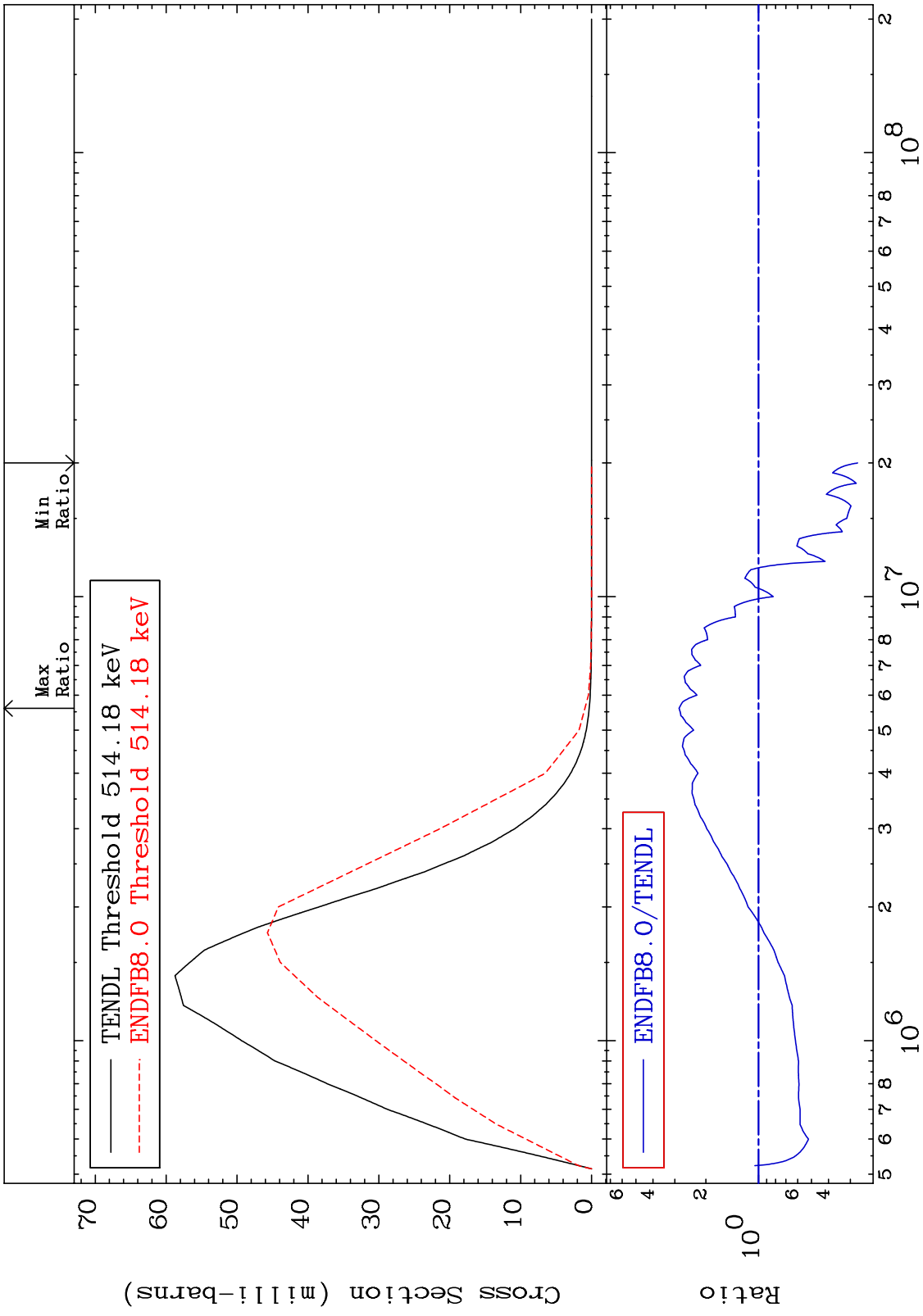
57-La-138
-72.77 To 184.9 %



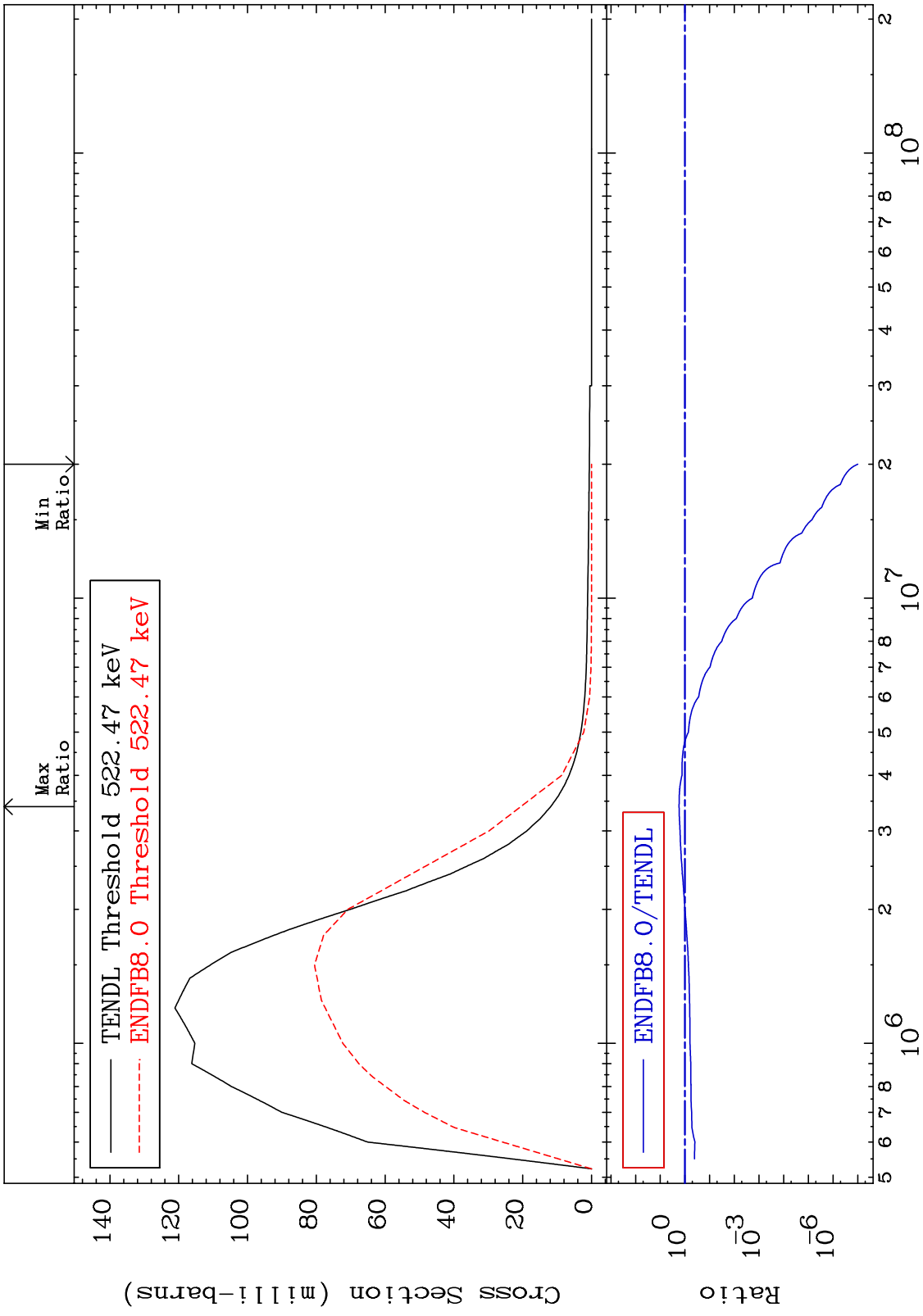
MAT 5725 MT= 58 (n,n') Level Cross Section 57-La-138 -100.0 To 73.94 %



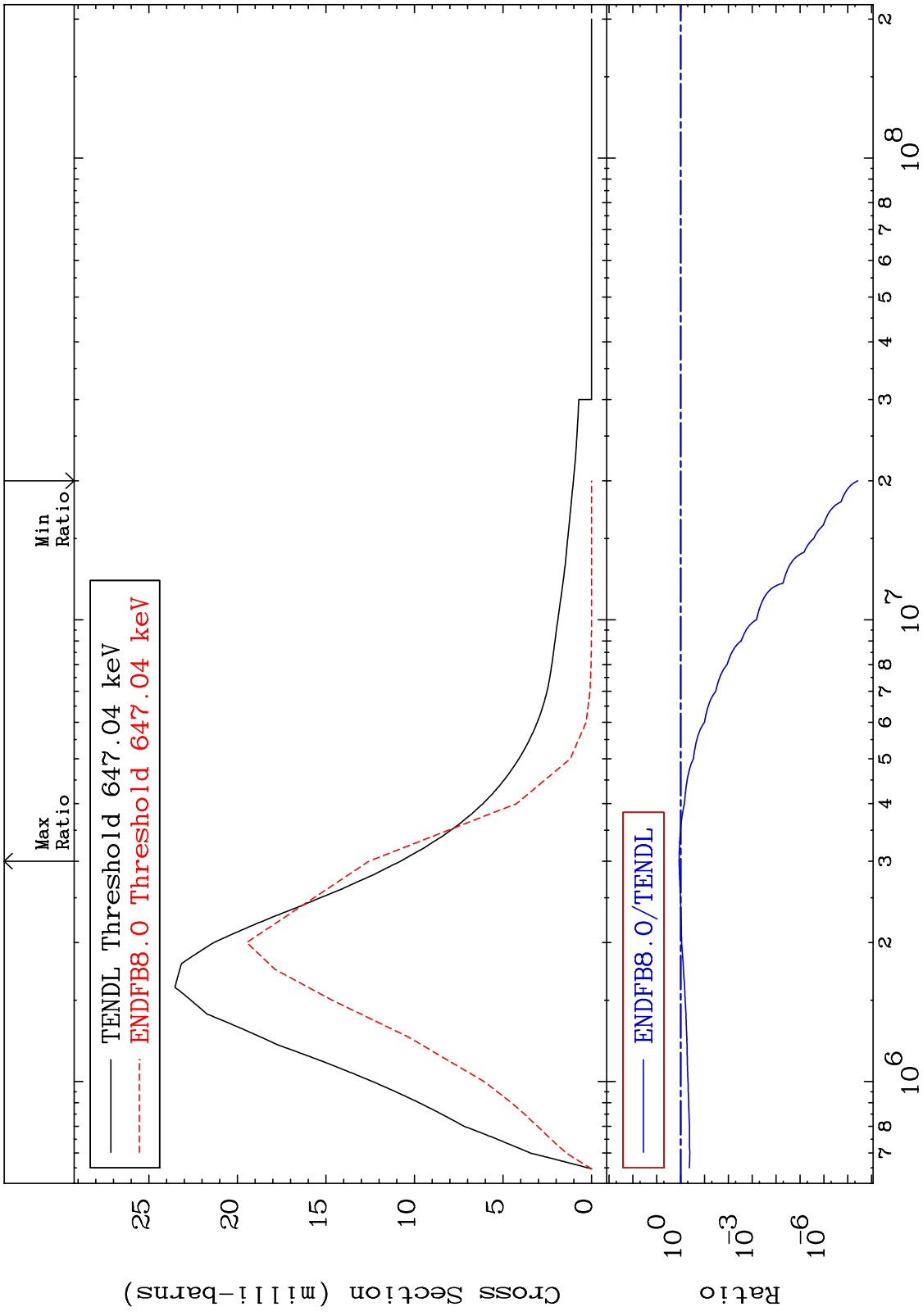
MAT 5725 MT= 59 (n,n') Level Cross Section 57-La-138 -72.79 To 184.1 %



MAT 5725 MT= 60 (n,n') Level Cross Section 57-La-138 -100.0 To 73.54 %

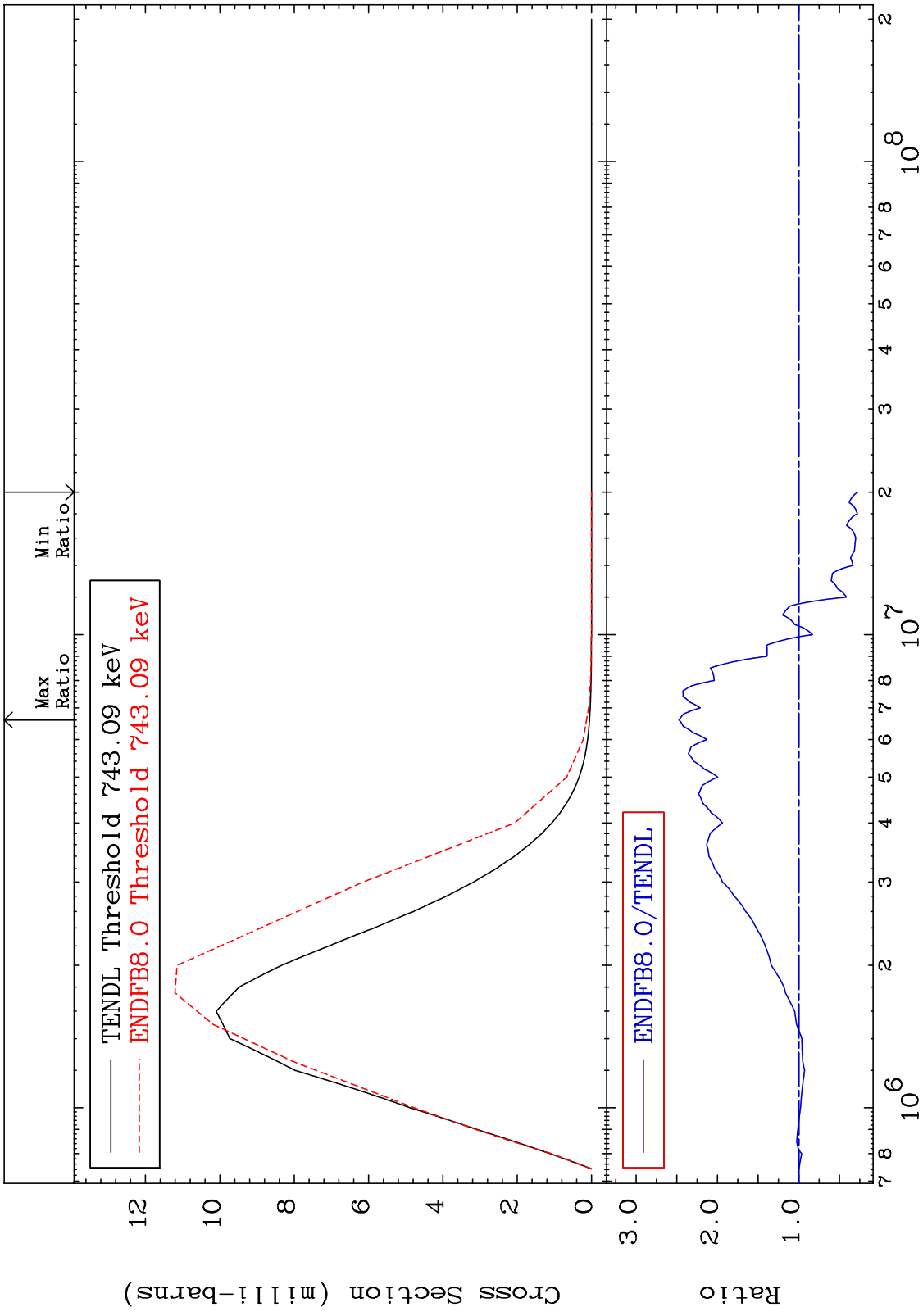


MAT 5725 MT= 61 (n,n') Level Cross Section 57-La-138 -100.0 To 16.64 %

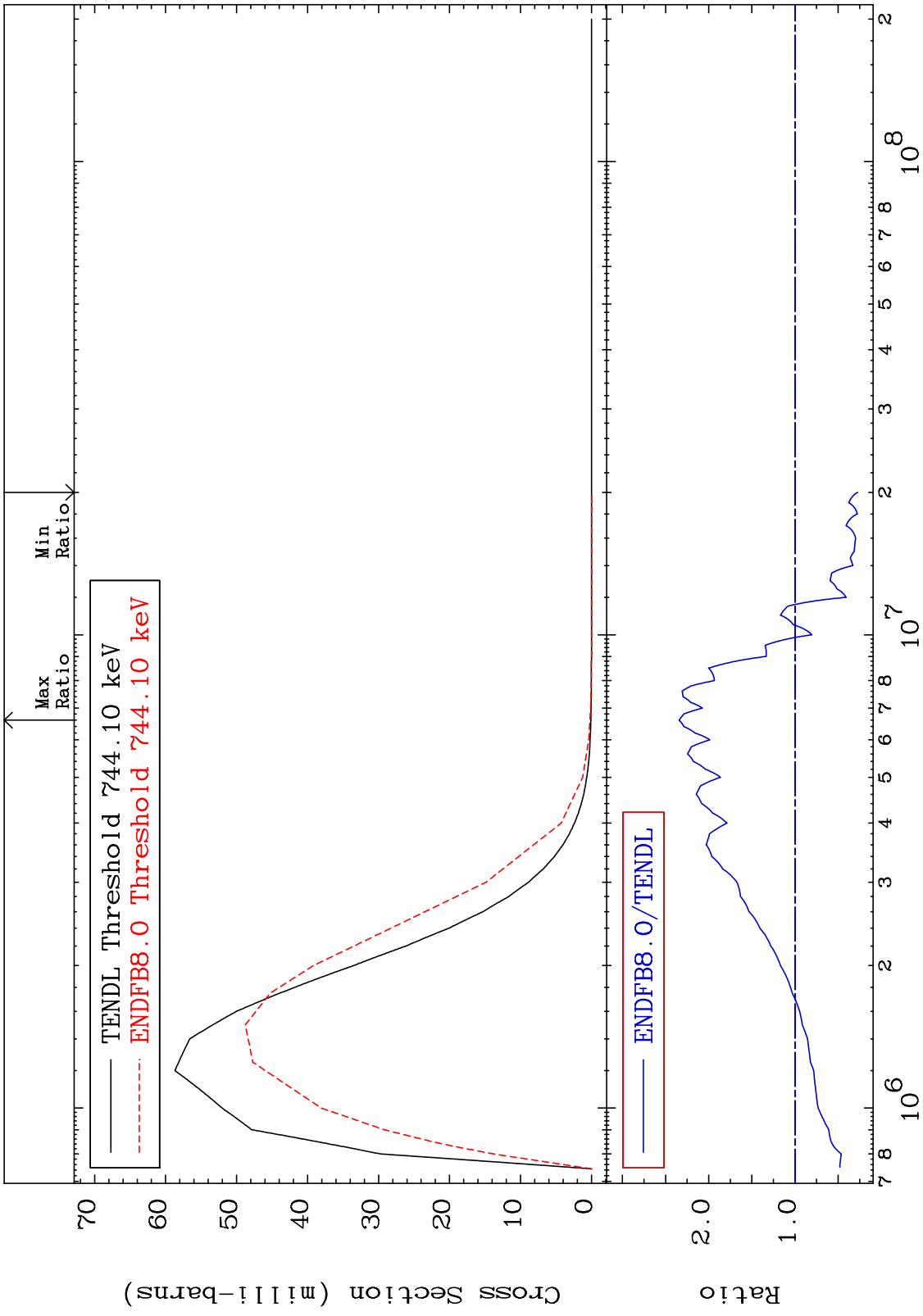


20 57-La-138 Incident Energy (eV)

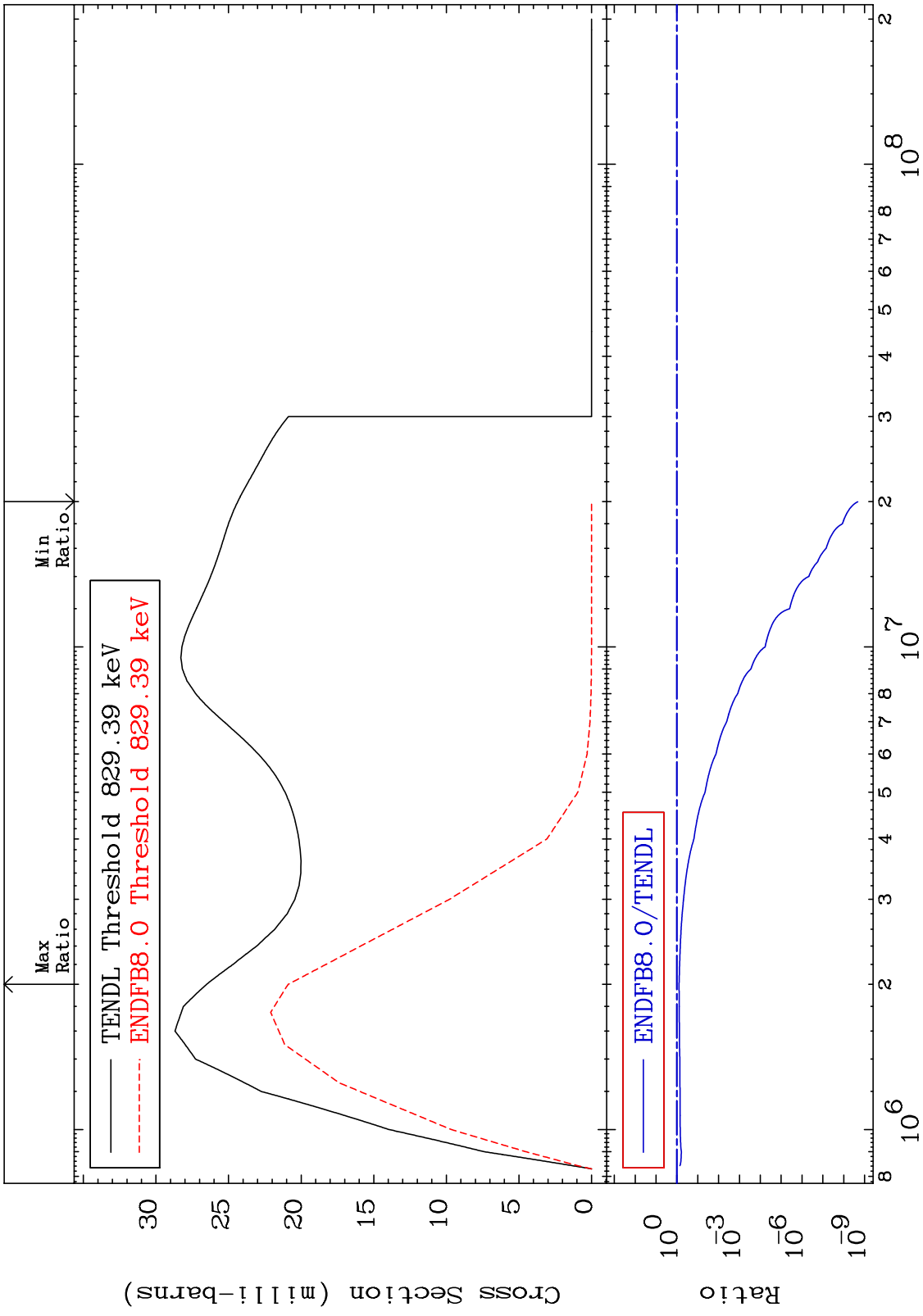
MAT 5725 MT= 62 (n,n') Level Cross Section 57-La-138 -72.68 To 147.2 %



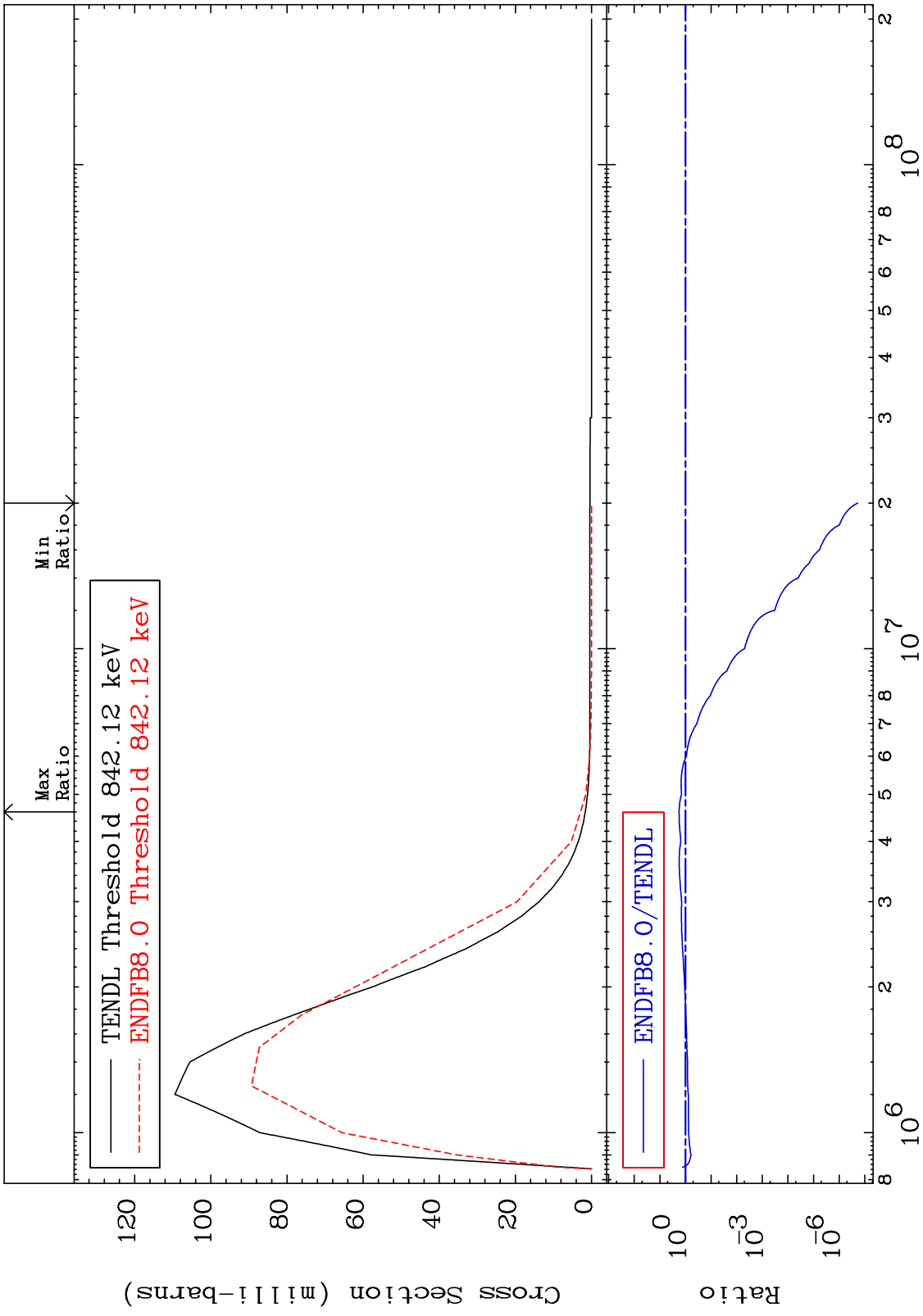
MAT 5725 MT= 63 (n,n') Level Cross Section 57-La-138 -72.89 To 134.4 %



MAT 5725 MT= 64 (n,n') Level Cross Section 57-La-138 -100.0 To -21.20%

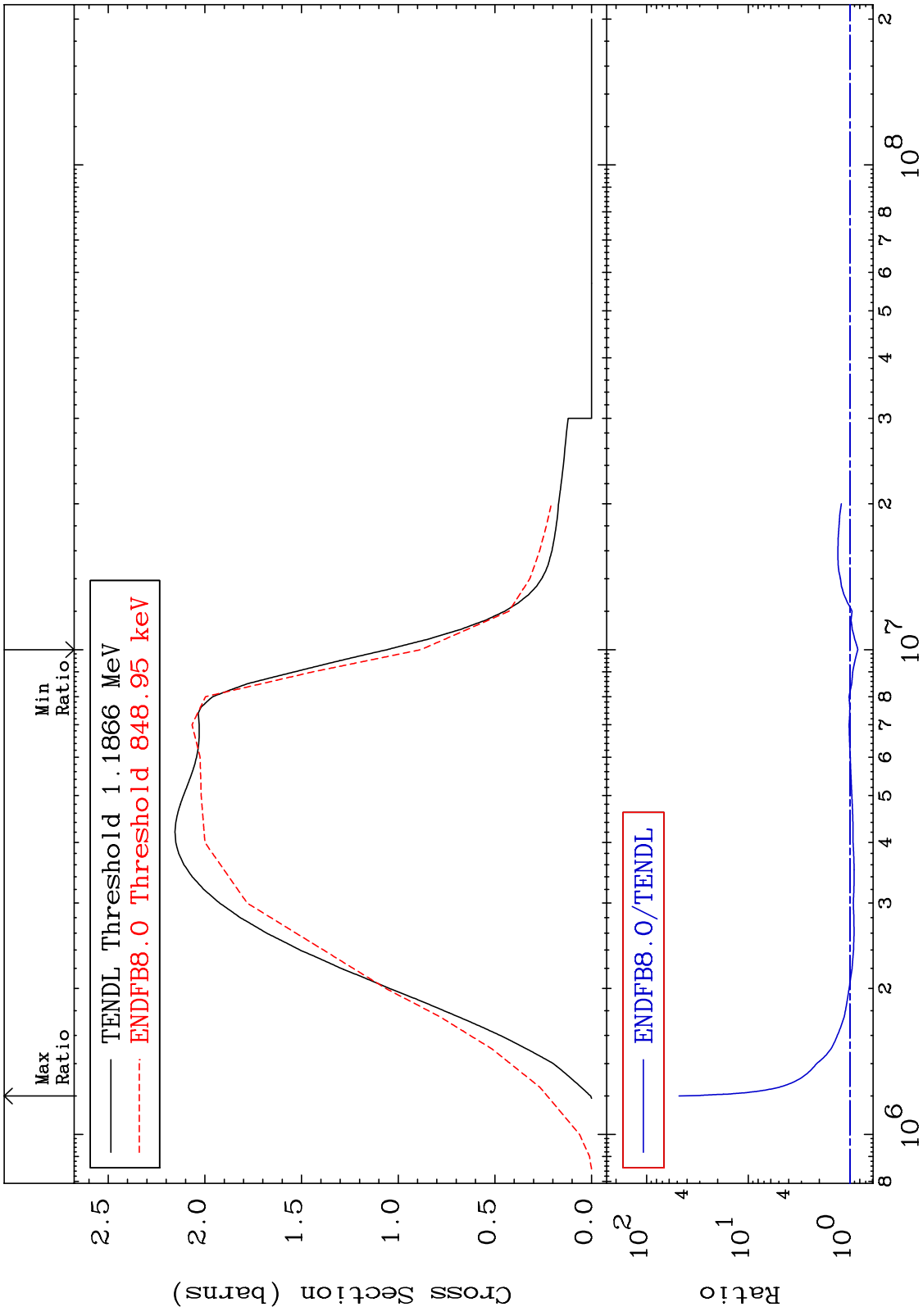


MAT 5725 MT= 65 (n,n') Level Cross Section 57-La-138 -100.0 To 78.39 %



24 57-La-138

MAT 5725 (n,n') Continuum Cross Section 57-La-138 -16.51 To 4692. %



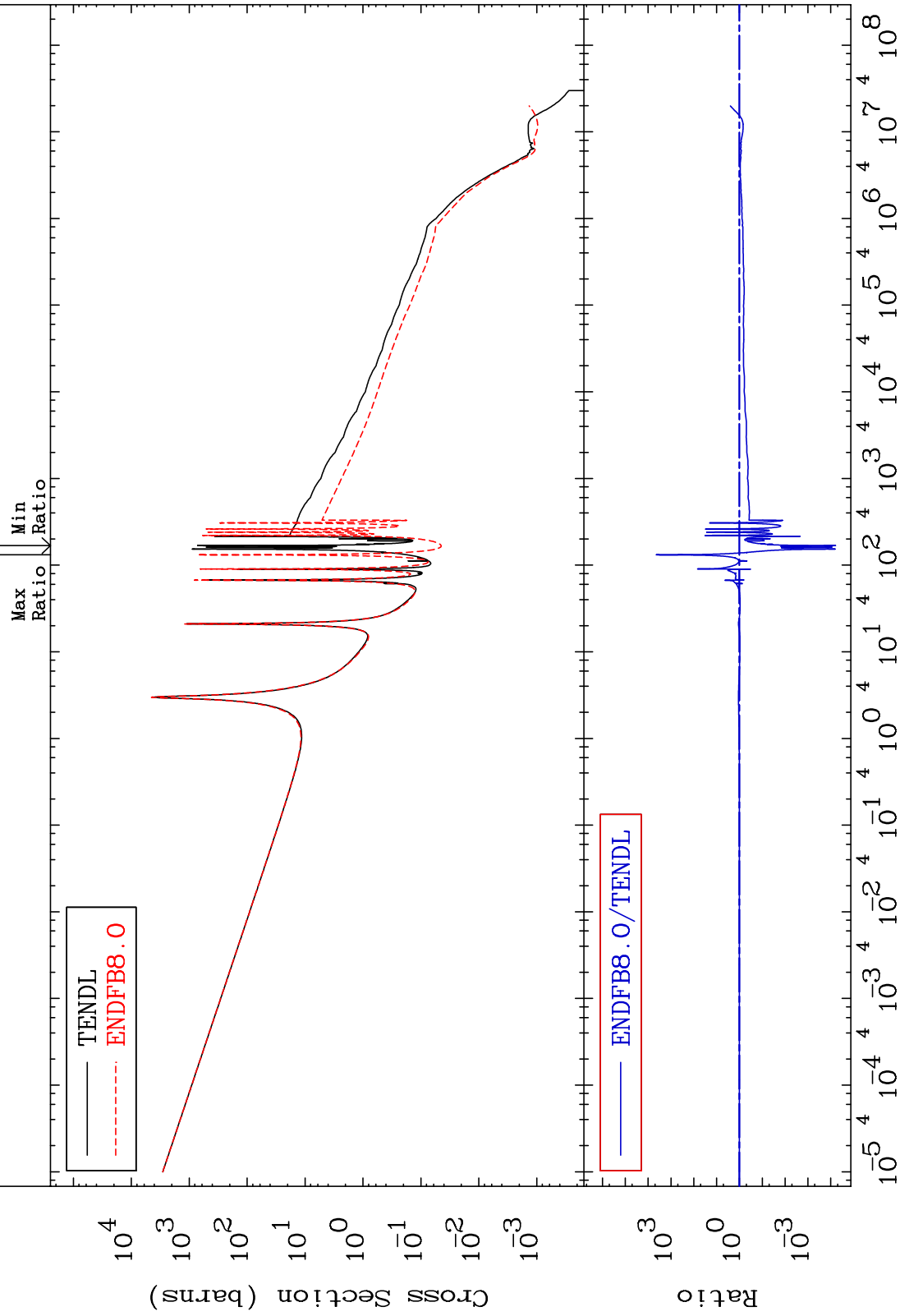
MAT 5725

(n, γ)

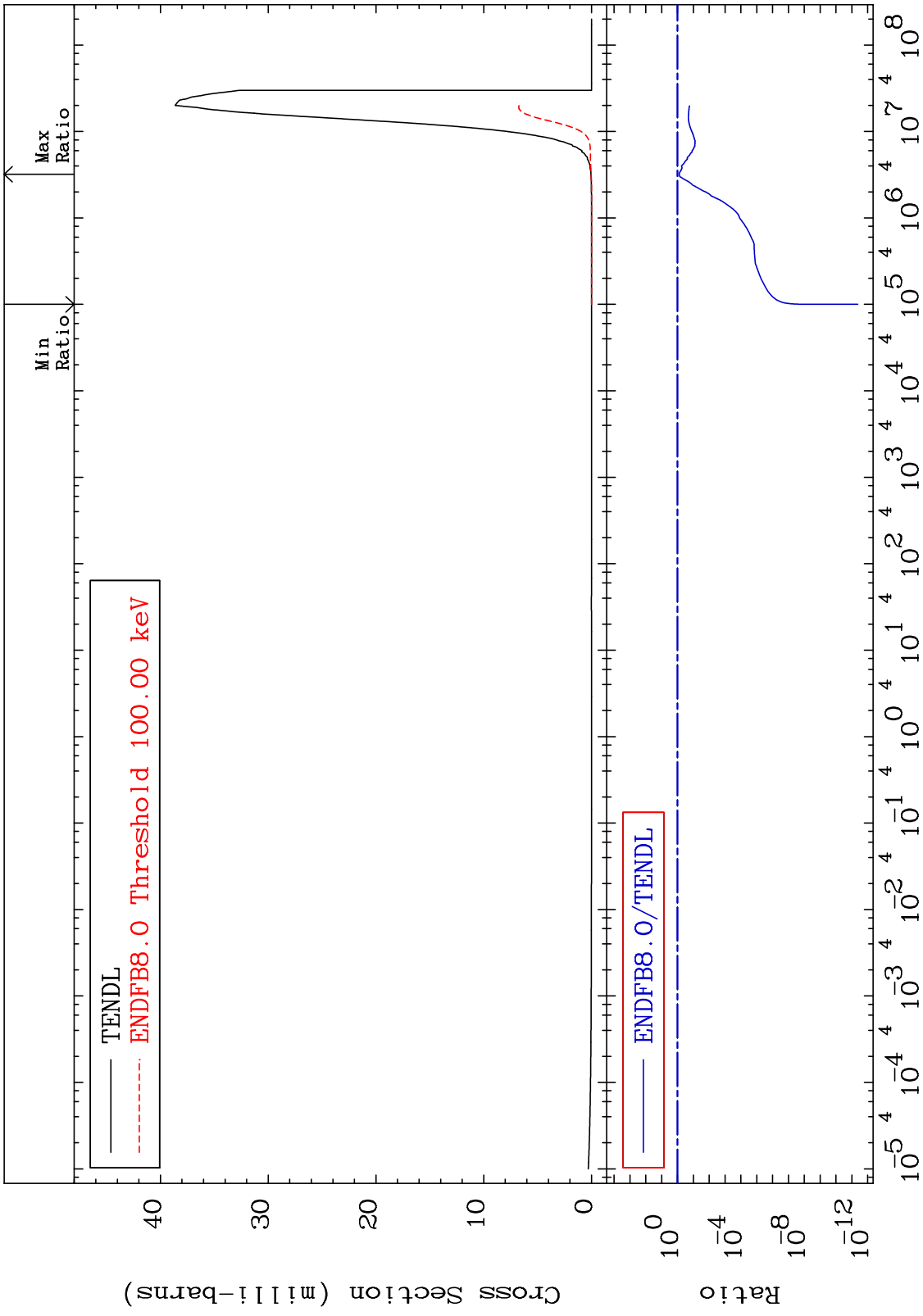
57-La-138

-99.99 To 9999. %

Cross Section



MAT 5725 (n,p) Cross Section 57-La-138 -100.0 To -20.44%



MAT 5725

(n,d)

57-La-138

-100.0 To 107.9 %

Cross Section

Min Ratio

Max Ratio

TENDL Threshold 3.8906 MeV
ENDFB8.0 Threshold 5.0000 MeV

Cross Section (milli-barns)

35

30

25

20

15

10

5

0

Ratio

10^0

10^{-2}

10^{-4}

ENDFB8.0/TENDL

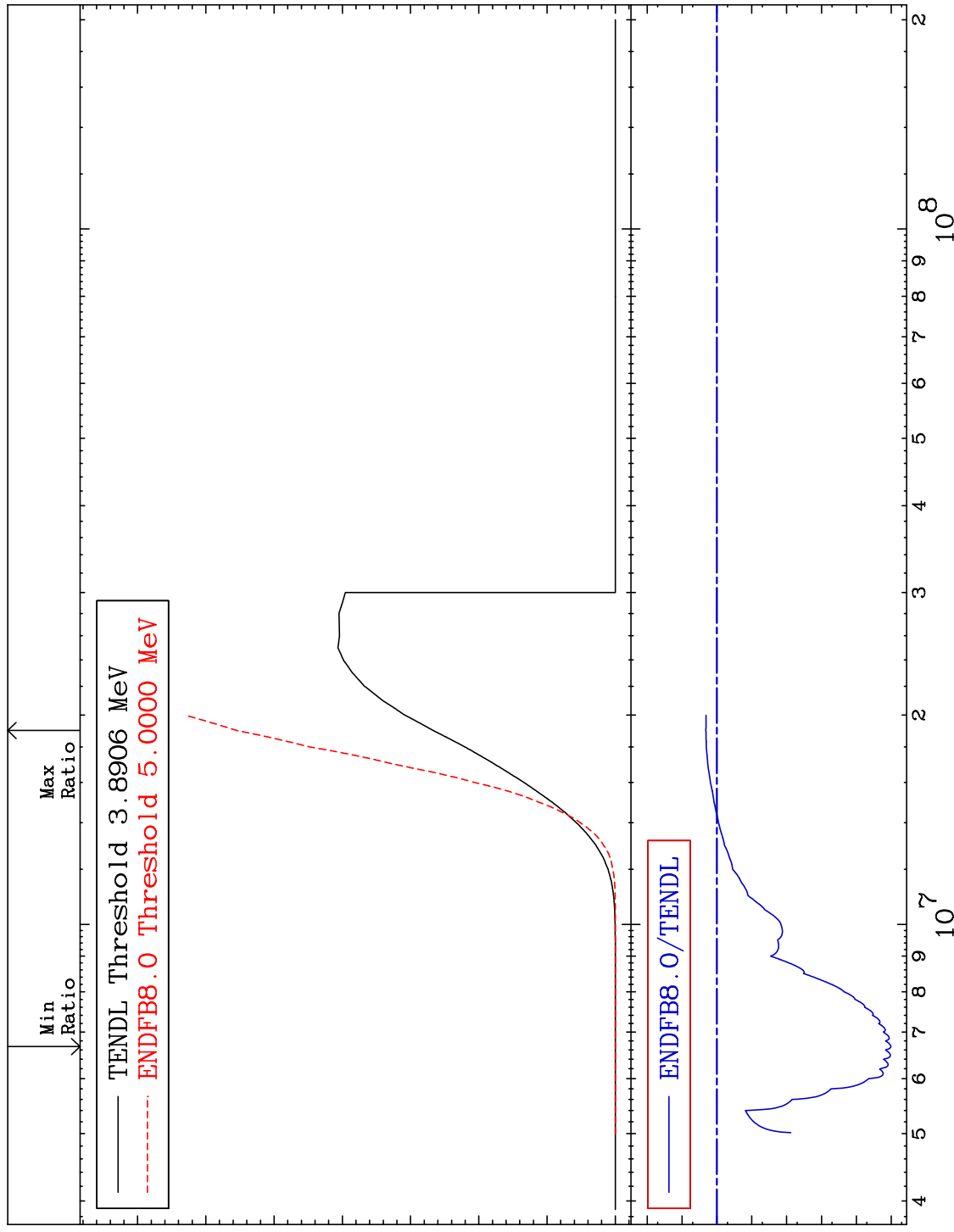
10^7

10^8

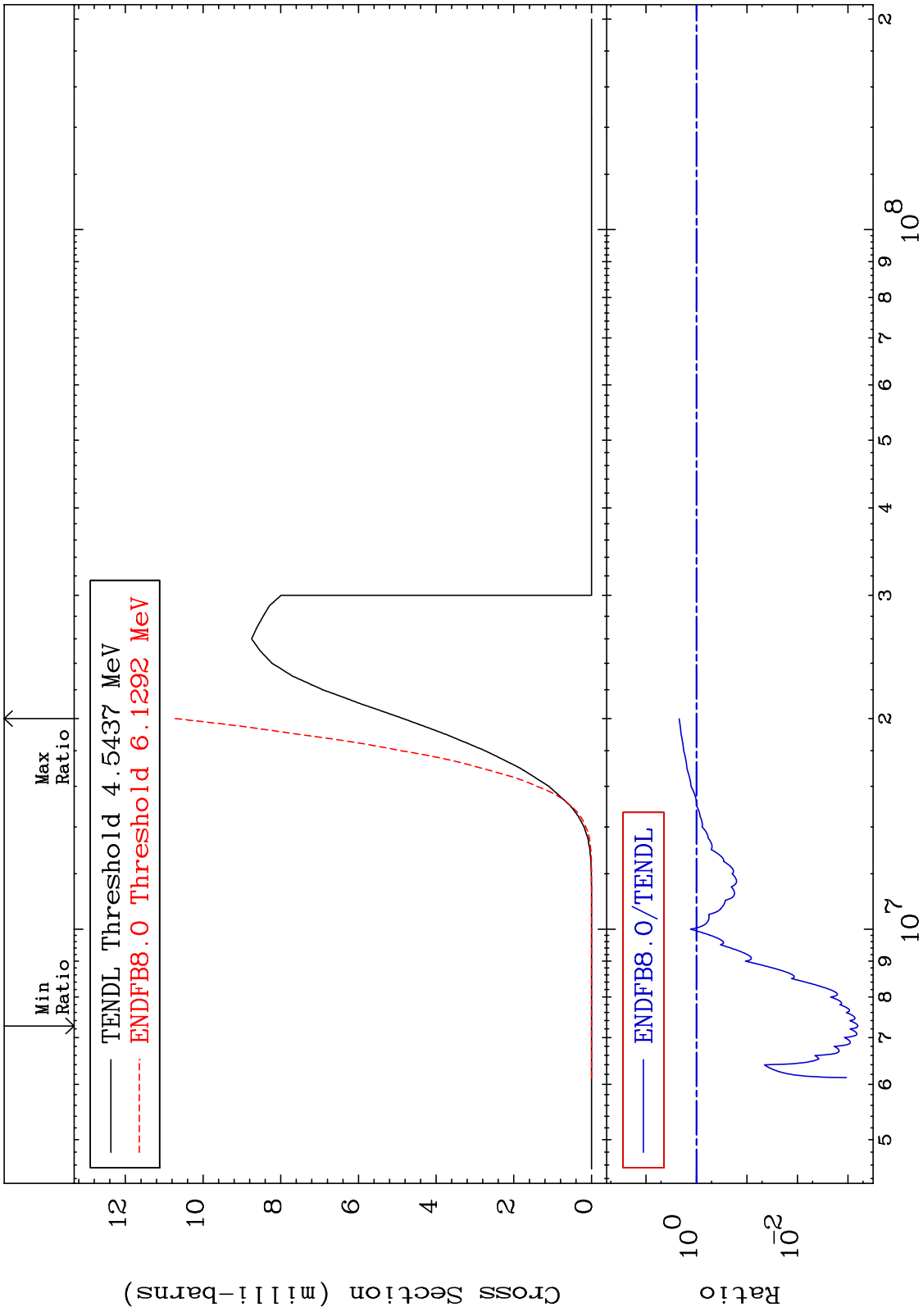
28

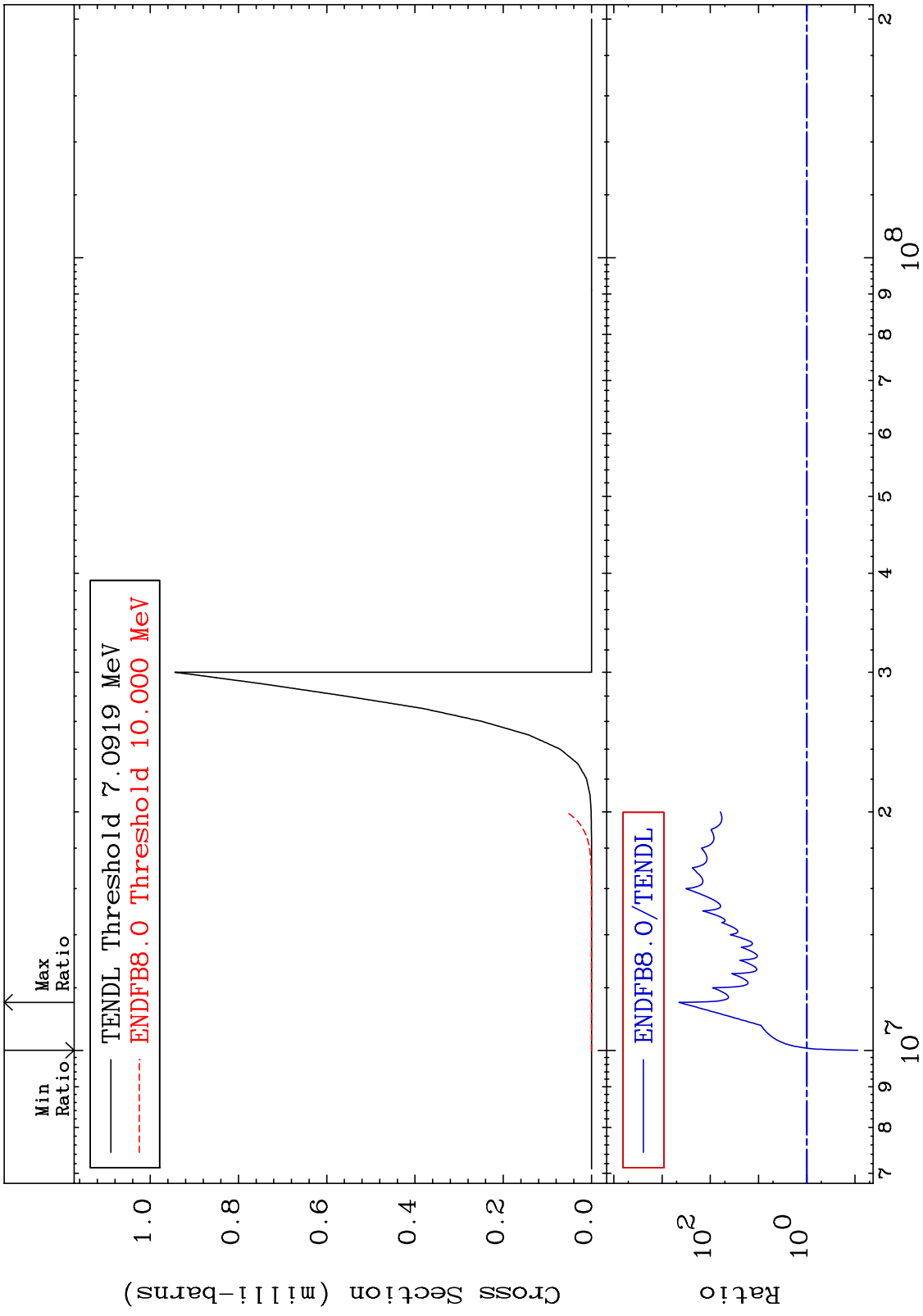
Incident Energy (eV)

57-La-138

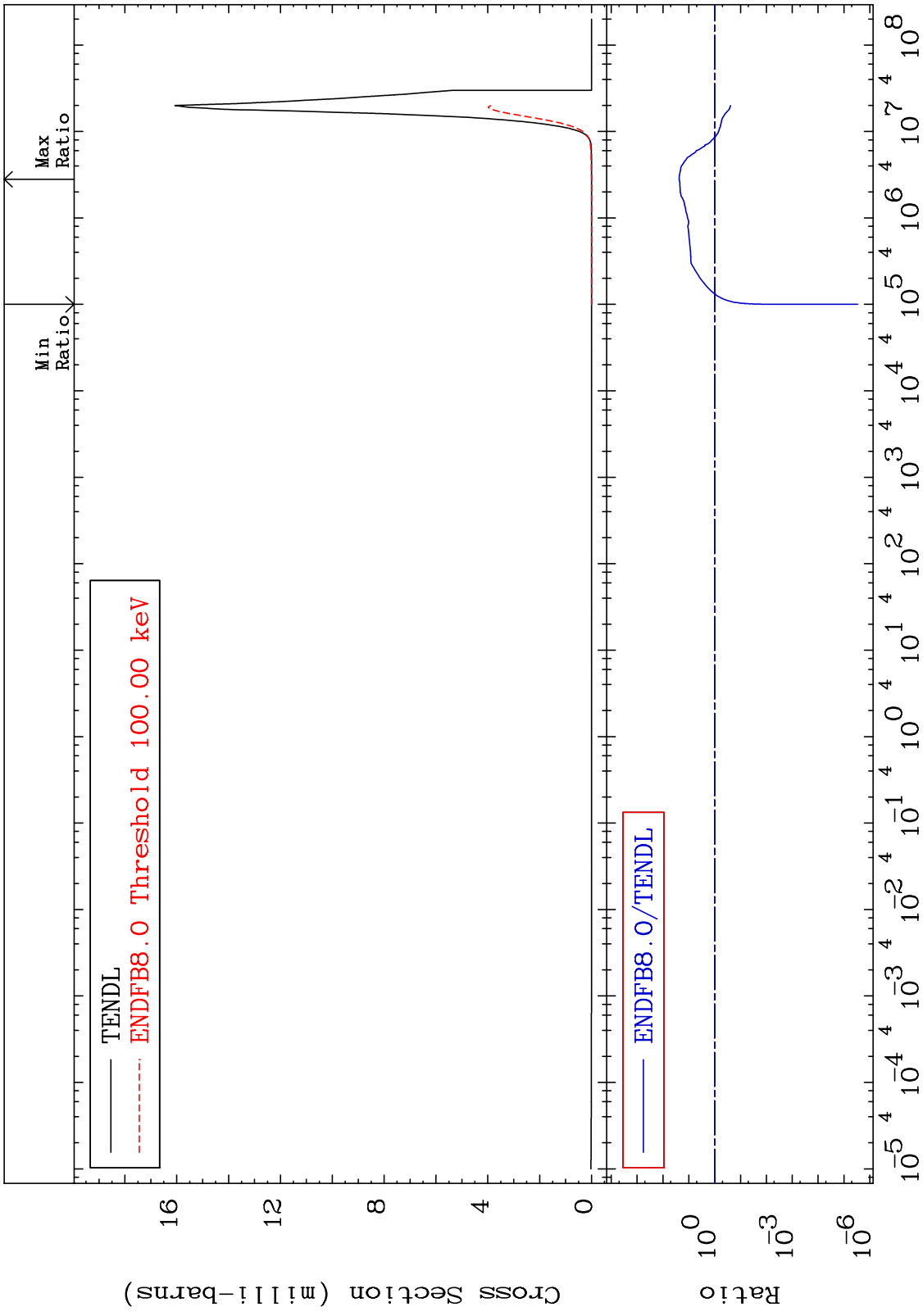


MAT 5725 57-La-138
-99.94 To 121.1 %





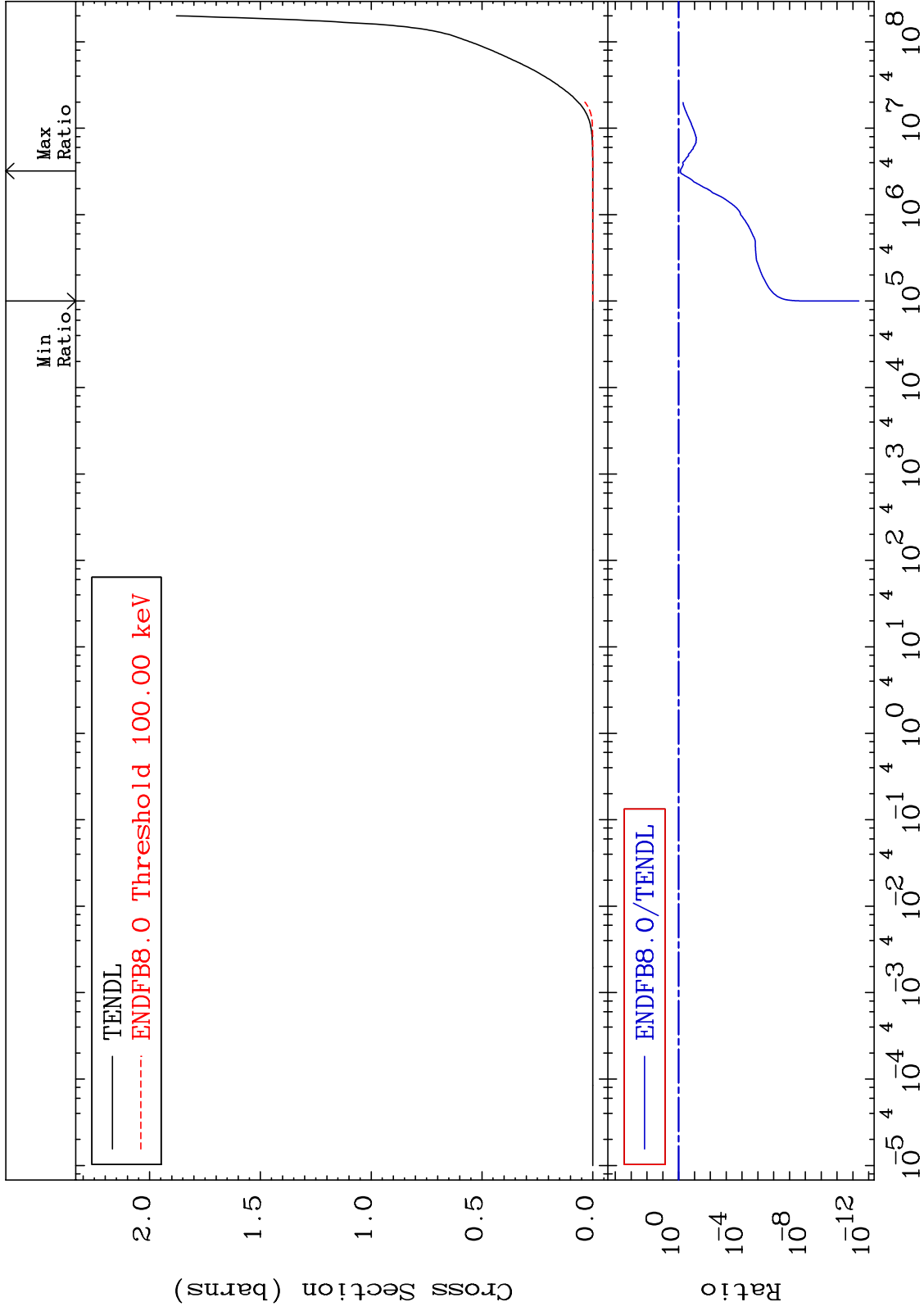
MAT 5725 (n, α) Cross Section 57-La-138 -100.0 To 2285. %



MAT 5725

Hydrogen Production Cross Section

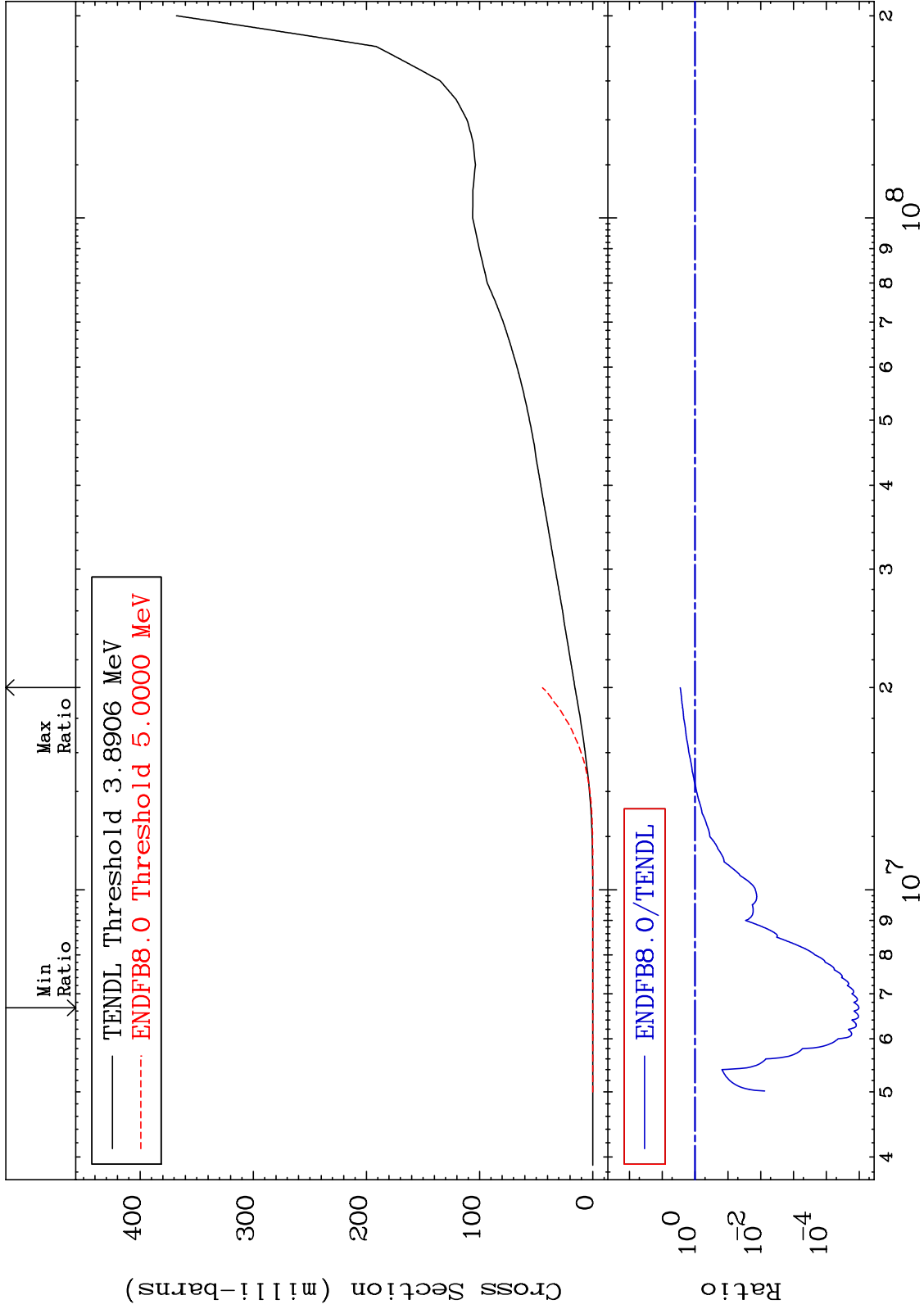
57-La-138
-100.0 To -20.44%

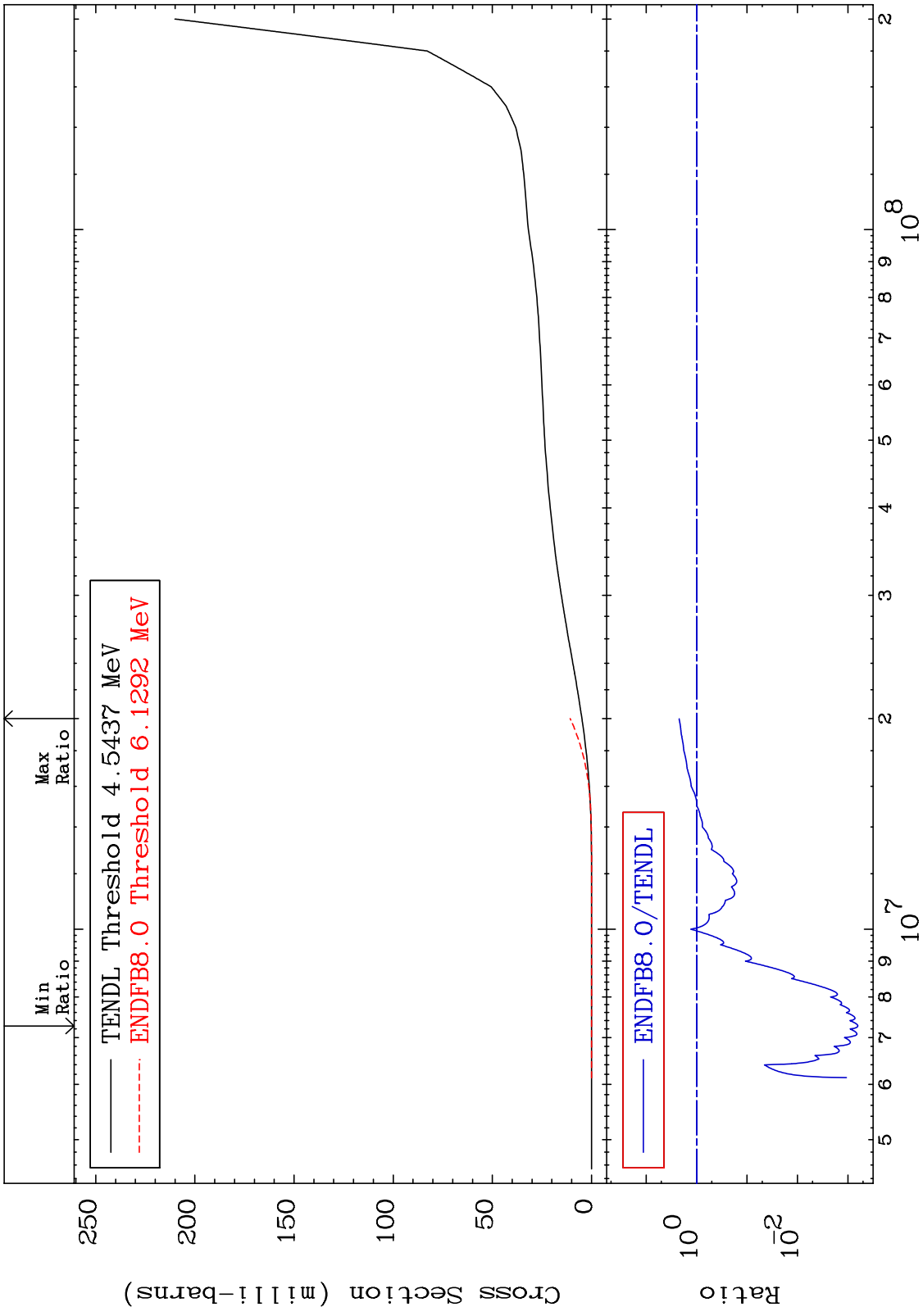


MAT 5725

Deuterium Production
Cross Section

57-La-138
-100.0 To 183.7 %

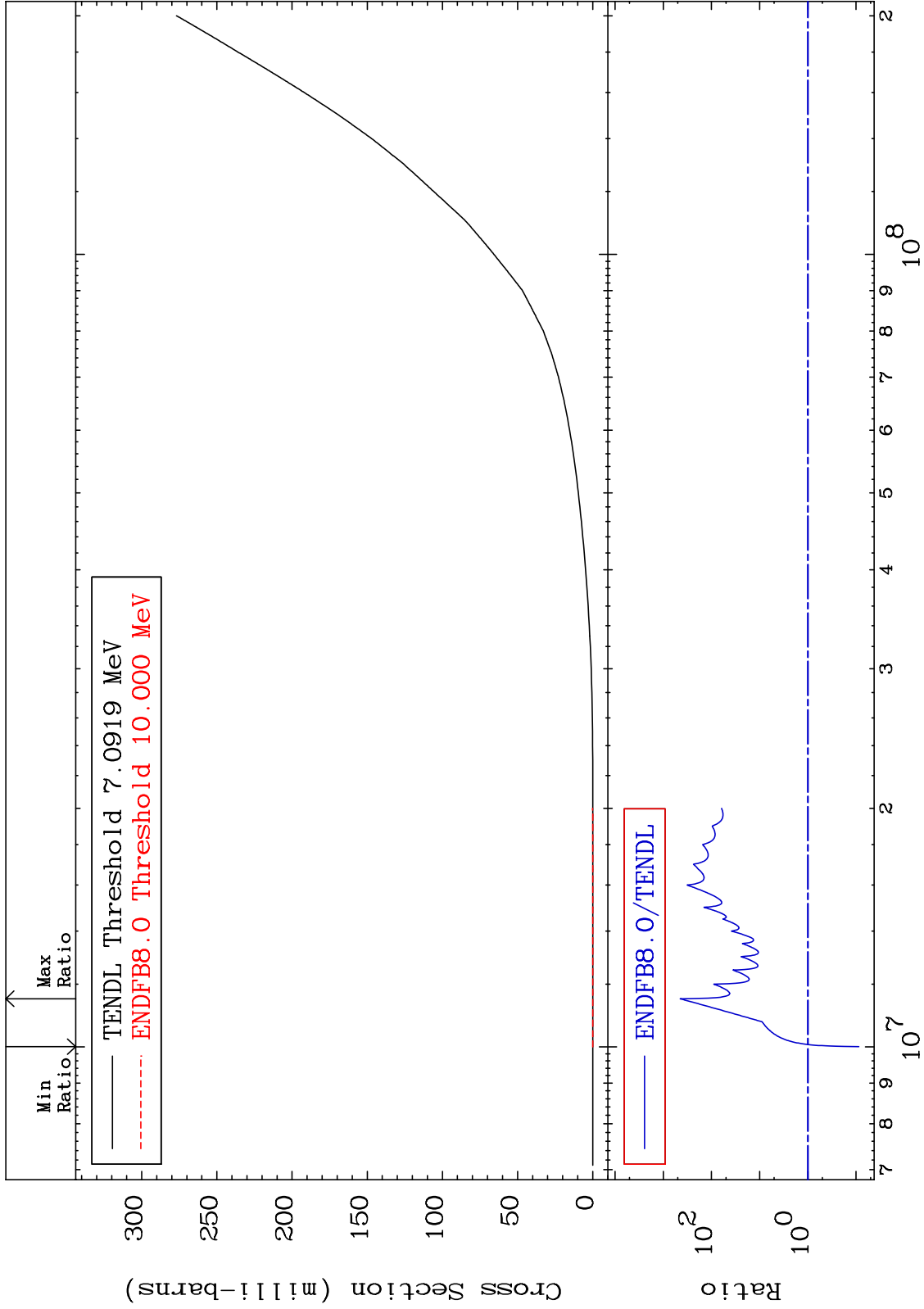




MAT 5725

He-3 Production
Cross Section

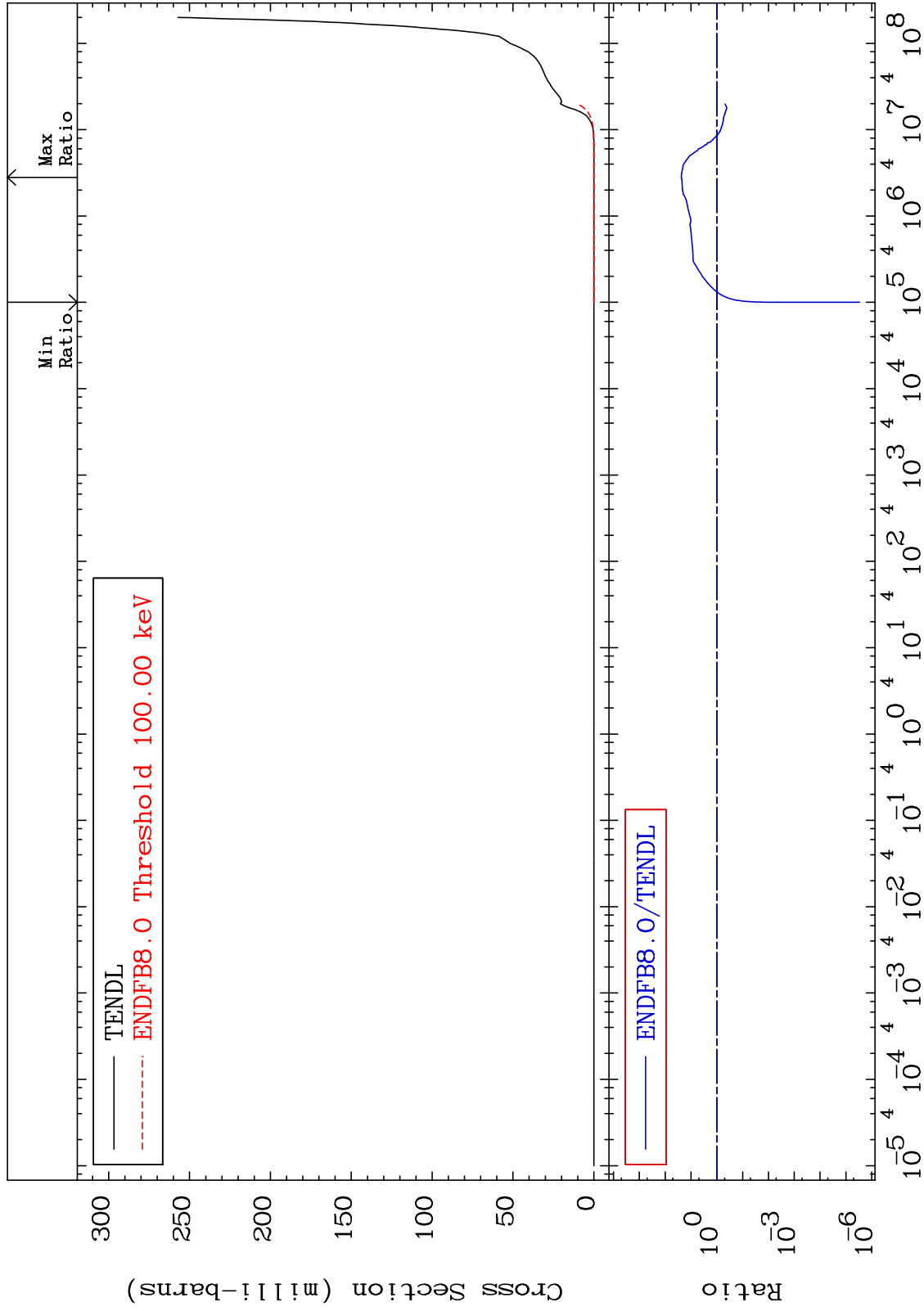
57-La-138
-91.27 To 9999. %



MAT 5725

He-4 Production
Cross Section

57-La-138
-100.0 To 2285. %

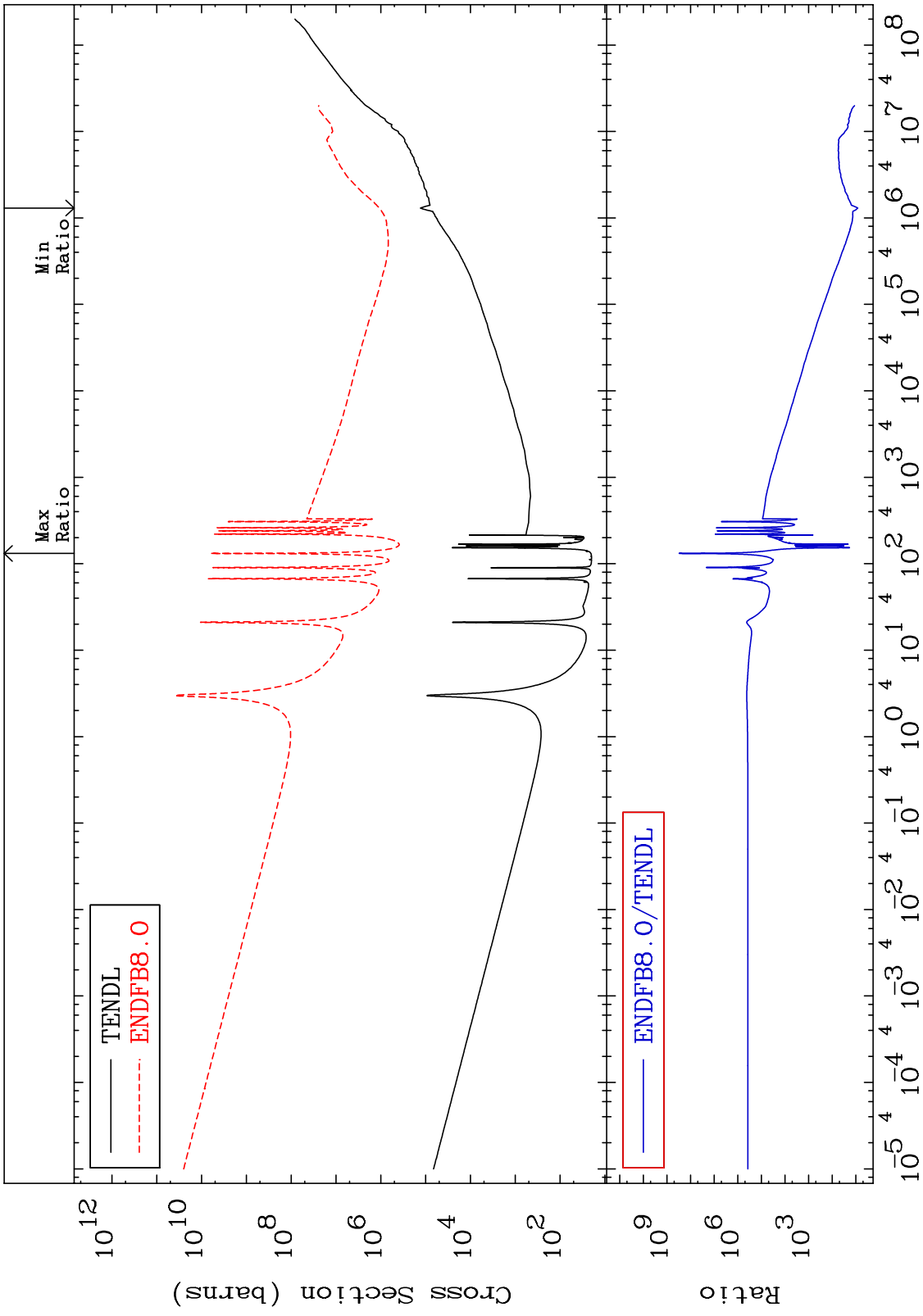


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Incident Energy (eV)

57-La-138

MAT 5725 Kerma total (eV-barns) 57-La-138 727.0 To 9999. %
 Cross Section

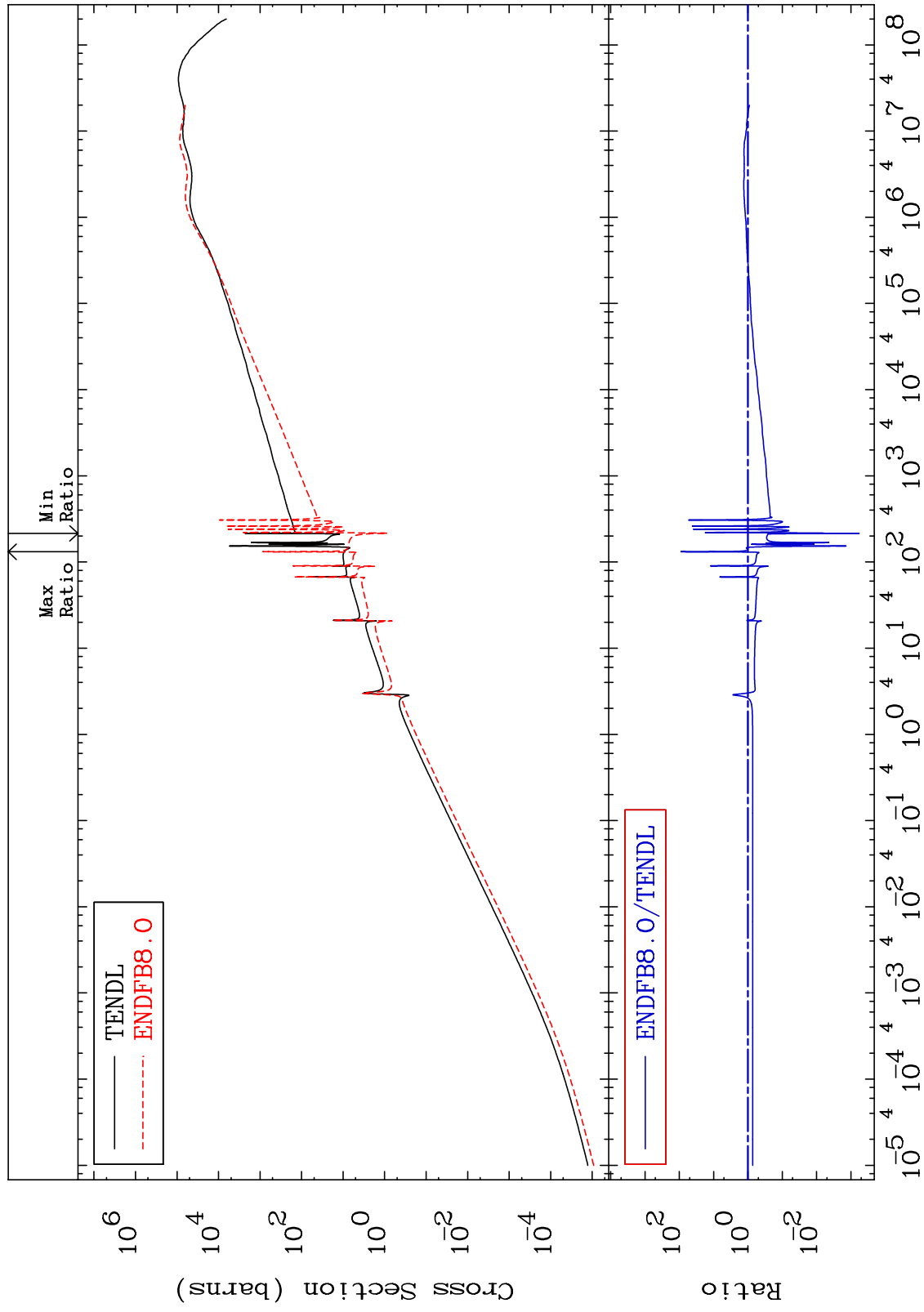


37 Incident Energy (eV) 57-La-138

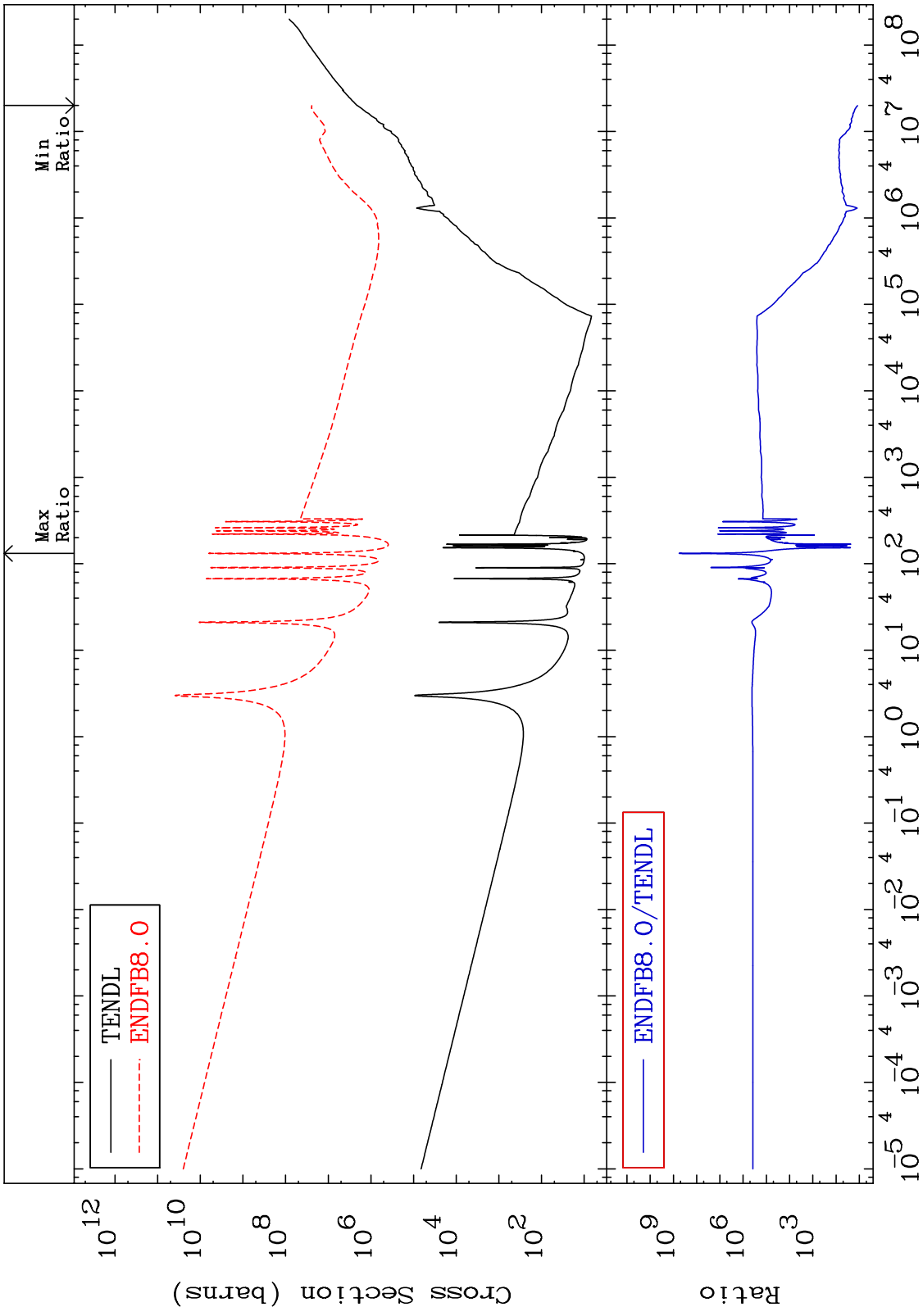
MAT 5725

Kerma elastic
Cross Section

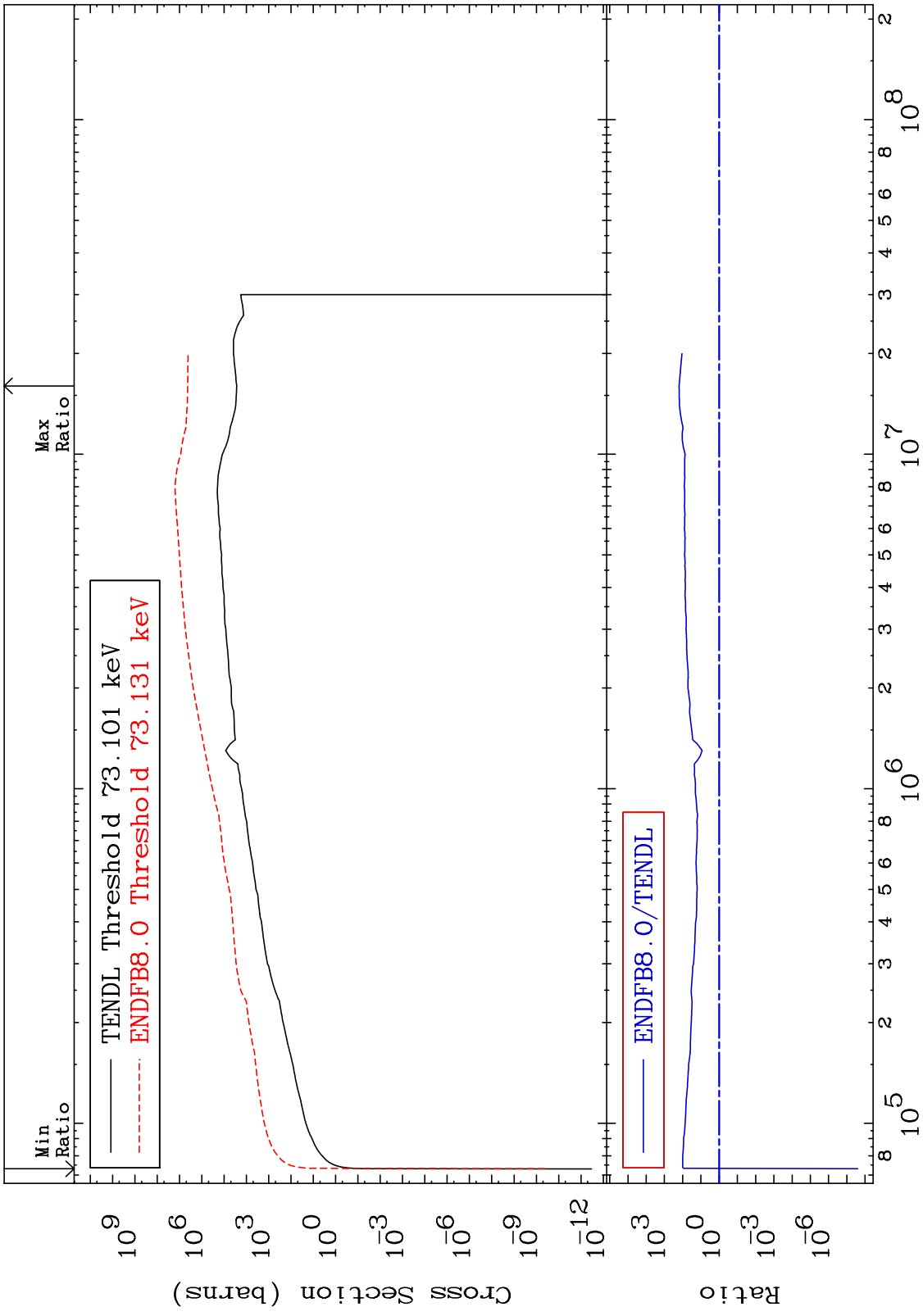
57-La-138
-99.94 To 8925. %



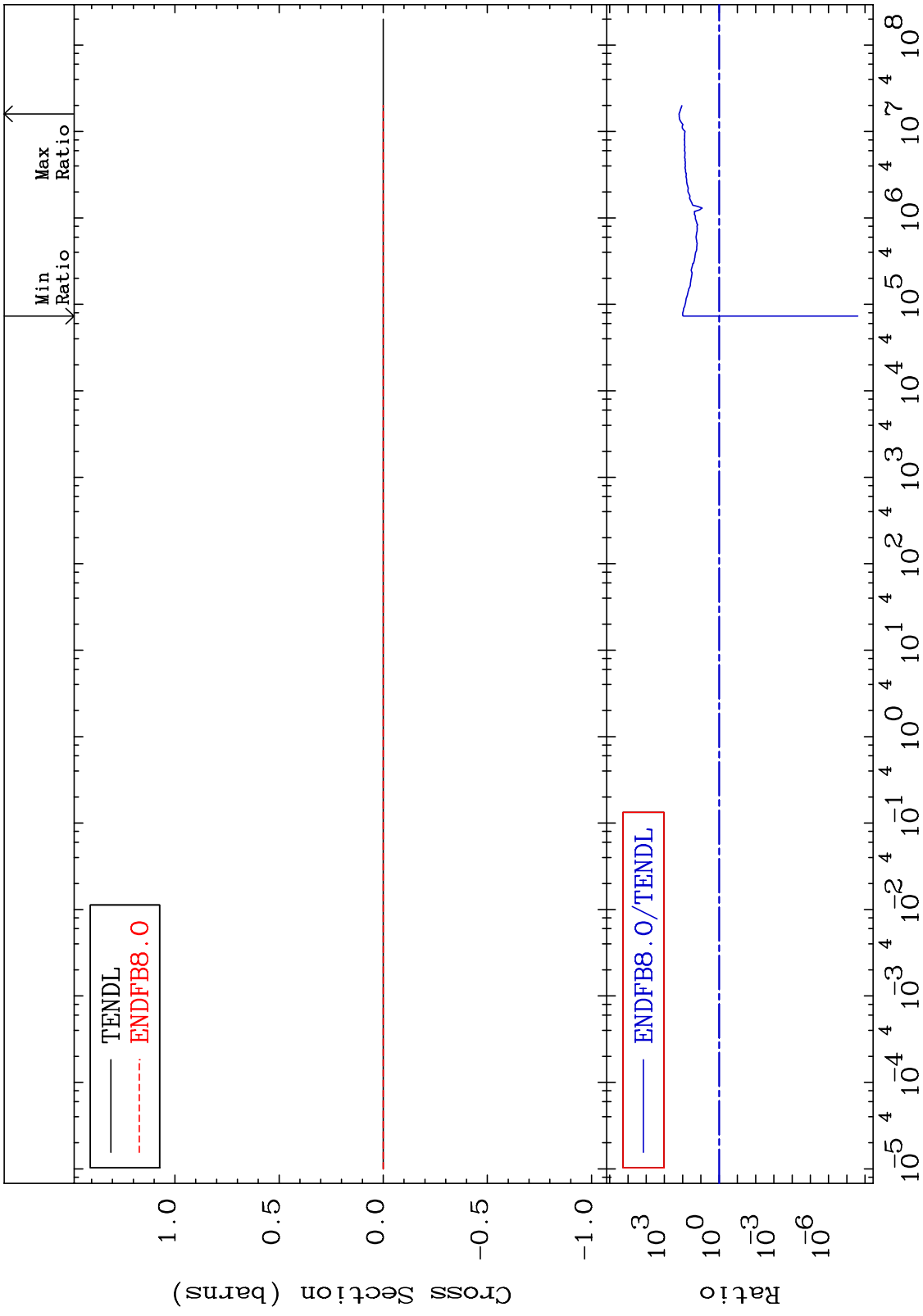
MAT 5725 Kerma non-elastic (all but mt2) 57-La-138
 Cross Section 1054. To 9999. %



MAT 5725 Kerma inelastic (mt51-91) 57-La-138
-100.0 To 9999. %



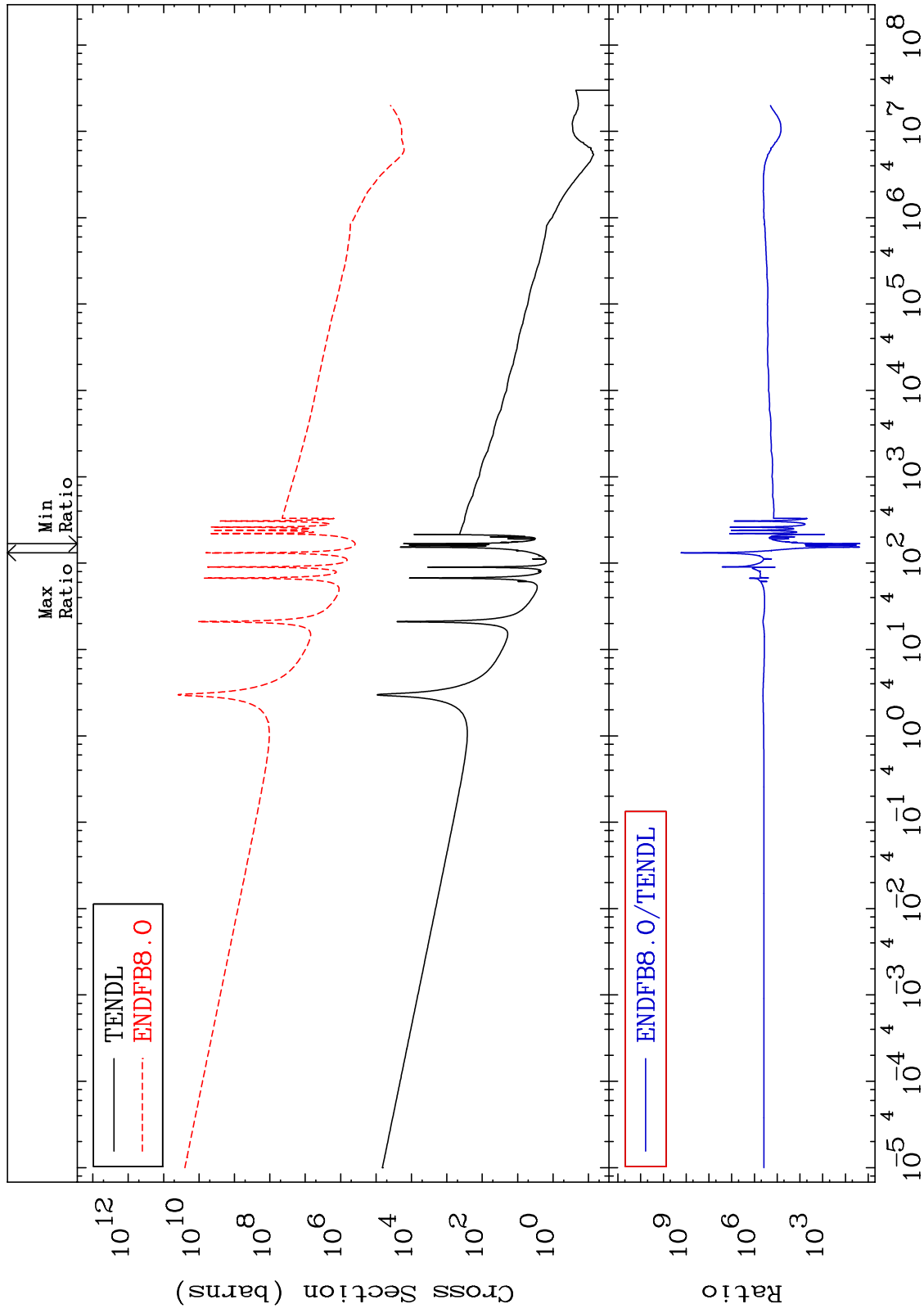
MAT 5725 Kerma fission (mt18 or mt19-20-21-38) 57-La-138
 Cross Section -100.0 To 9999. %



MAT 5725

Kerma capture (mt102)
Cross Section

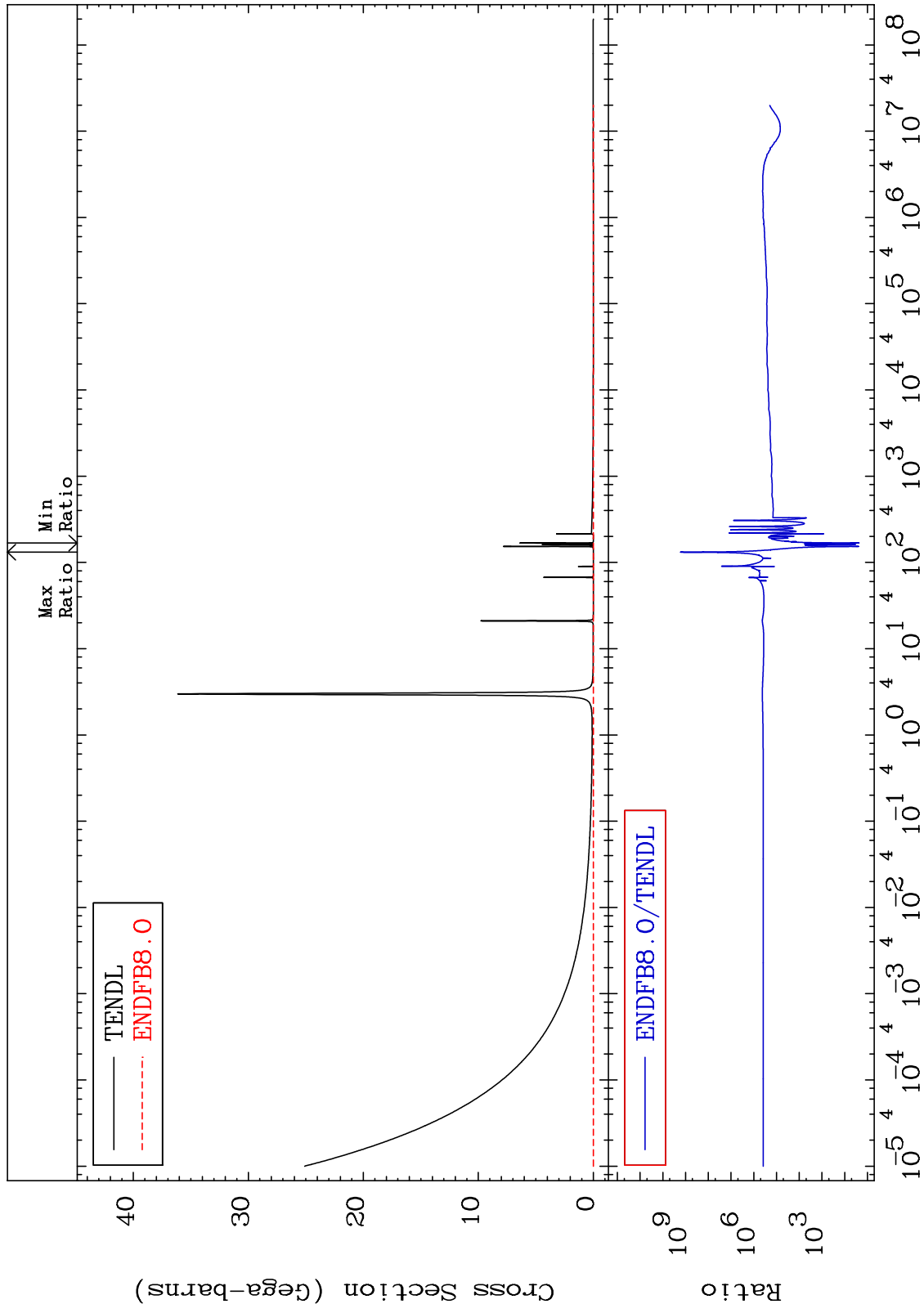
57-La-138
2251. To 9999. %



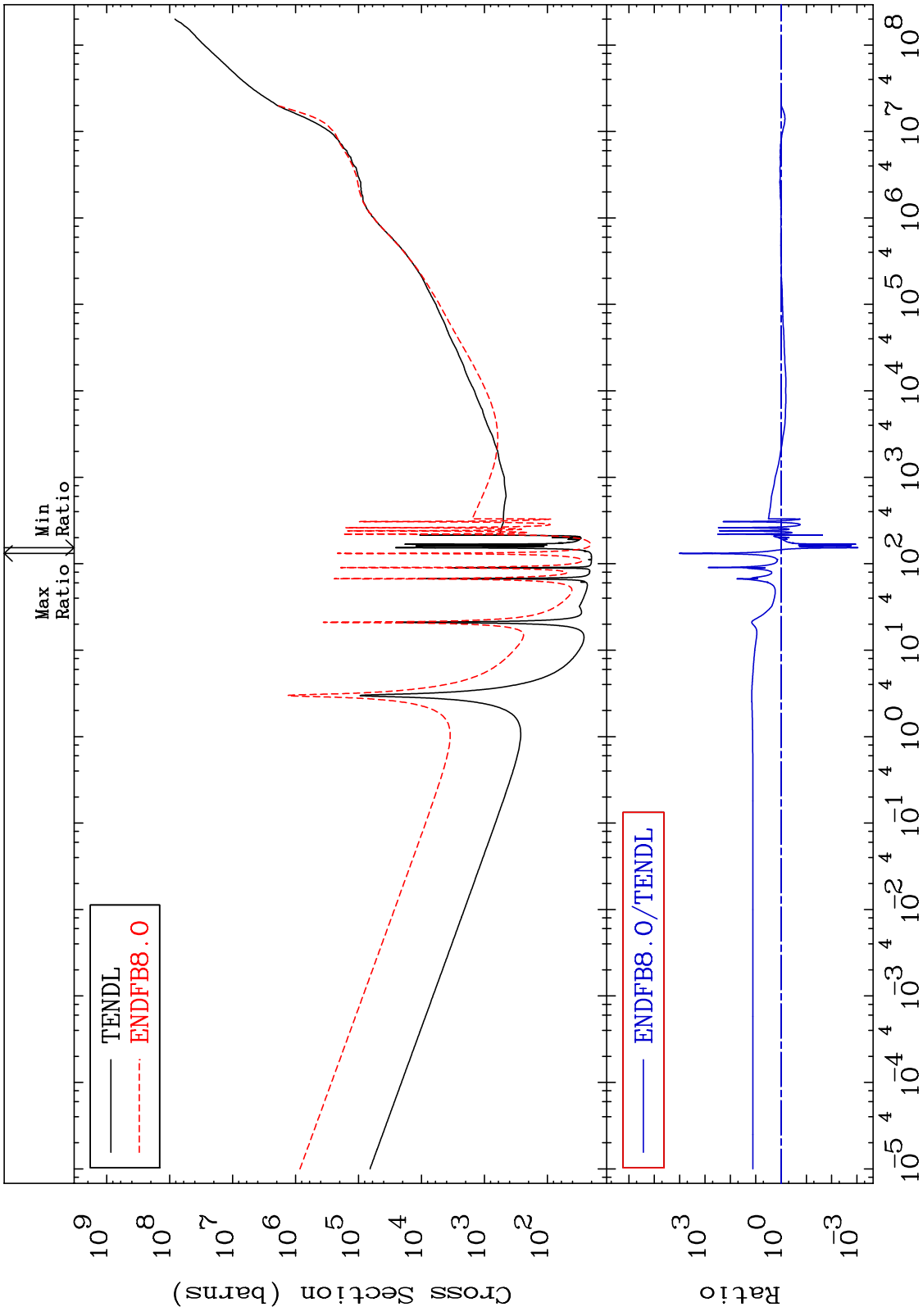
MAT 5725

Total photon (eV-barns)
Cross Section

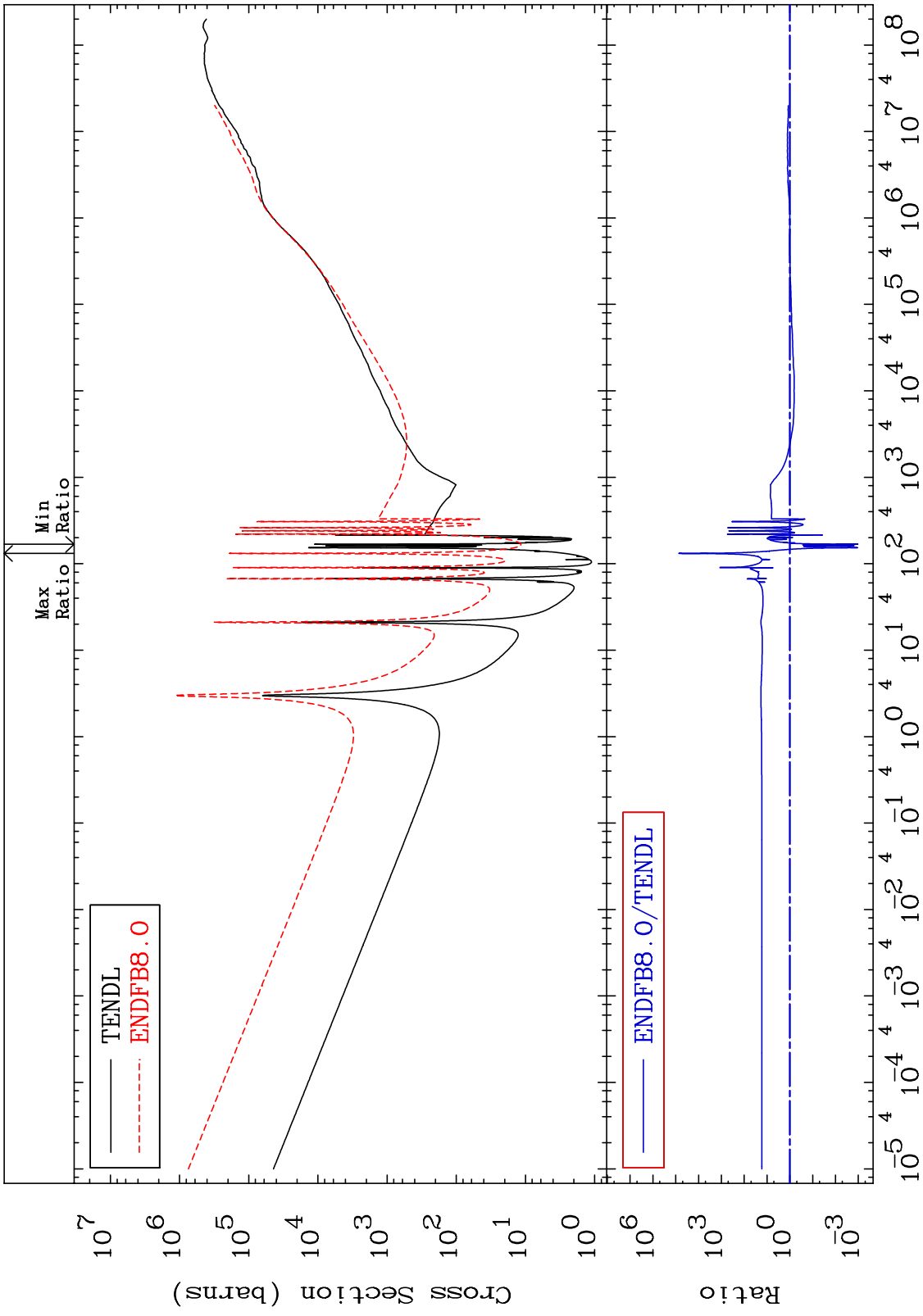
57-La-138
2251. To 9999. %



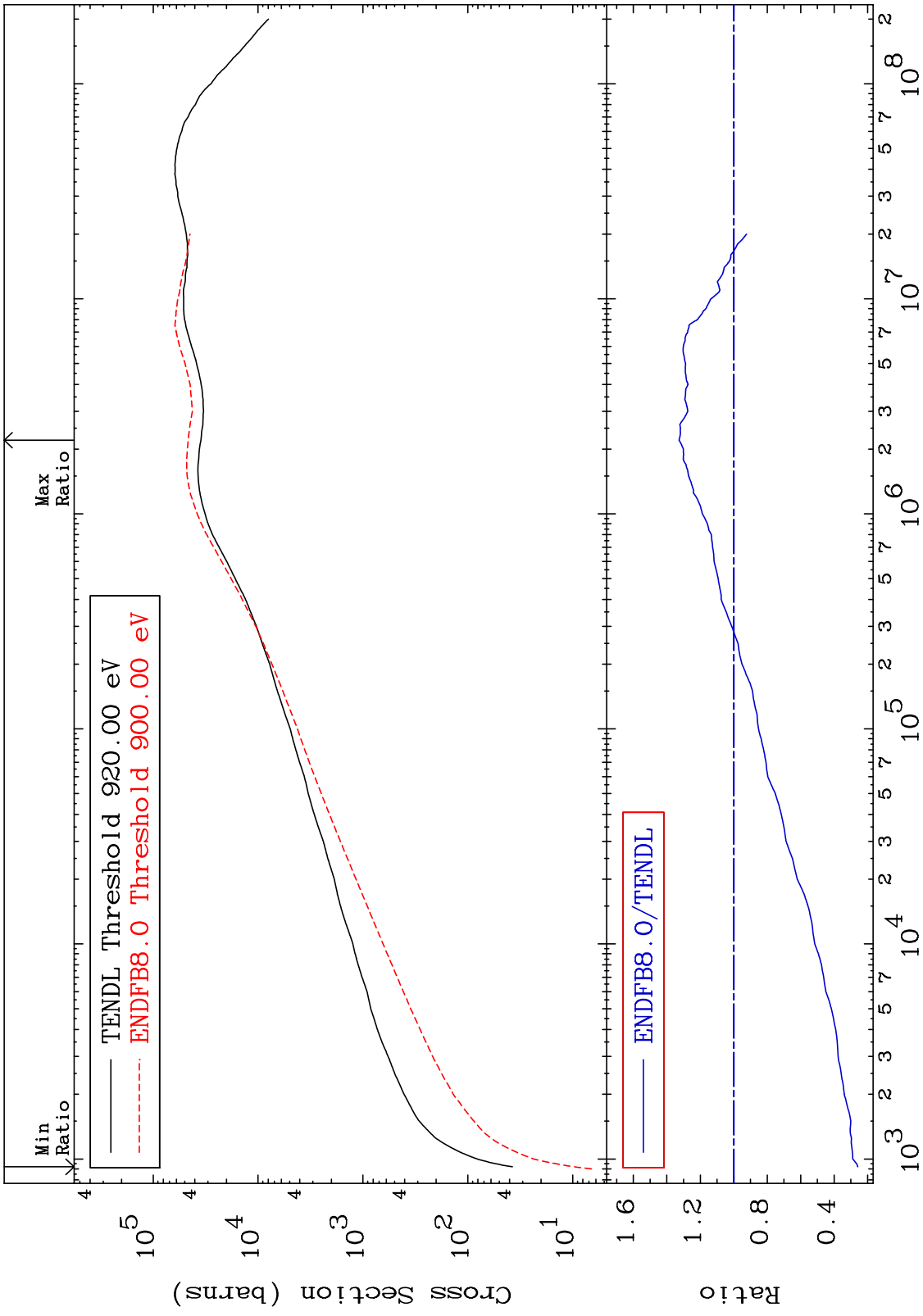
MAT 5725 Total kinematic kerma (high limit) 57-La-138
 Cross Section -99.91 To 9999. %



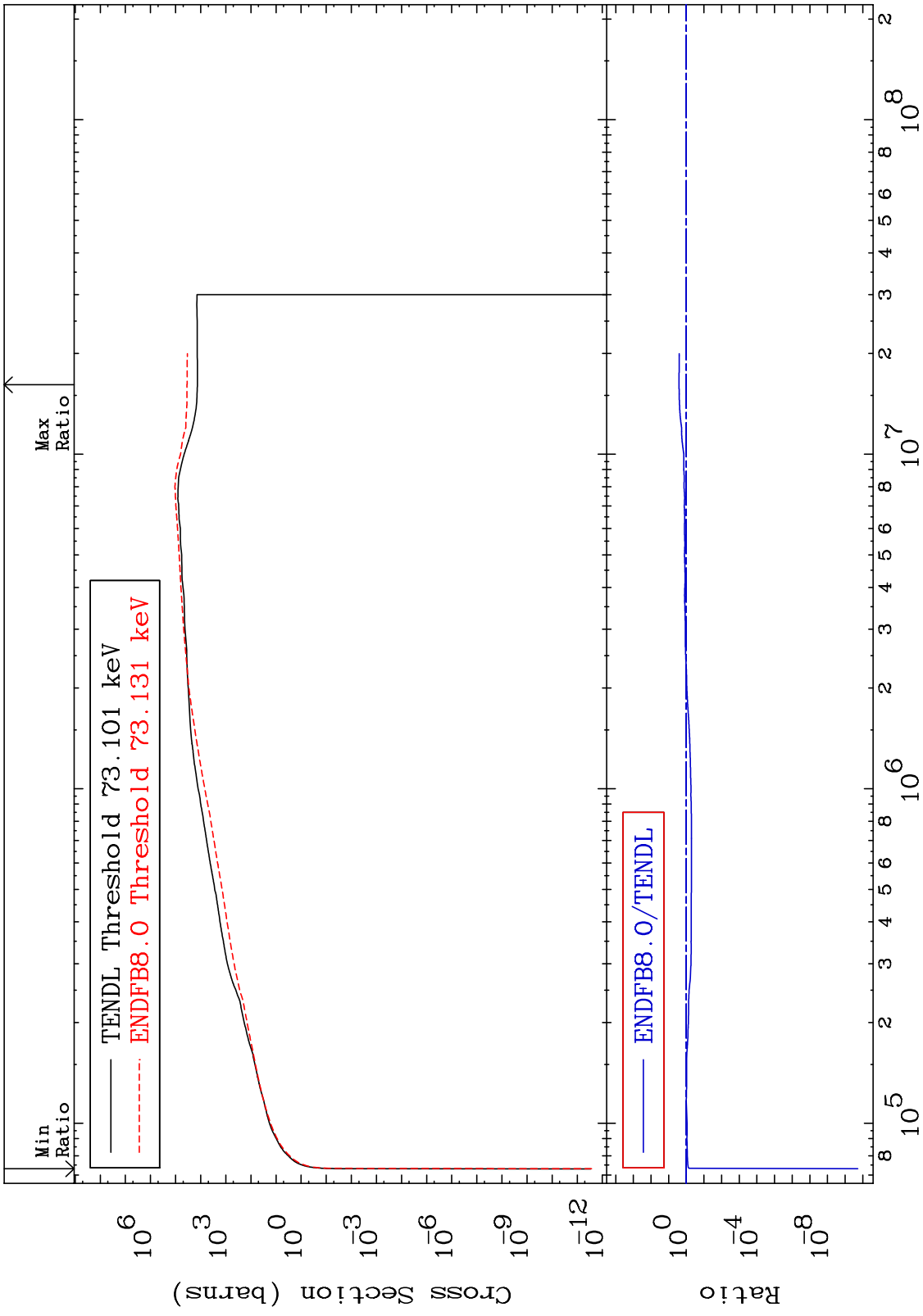
MAT 5725 Dpa total (eV-barns) 57-La-138
 Cross Section -99.90 To 9999. %



MAT 5725 Dpa elastic (mt2) 57-La-138
 Cross Section -74.15 To 32.70 %



MAT 5725 Dpa inelastic (mt51-91) 57-La-138
Cross Section -100.0 To 157.5 %



MAT 5725 Dpa disappearance (mt102 -120) 57-La-138
 Cross Section -99.90 To 9999. %

