

Program Complot
(Version 2018-1)

by

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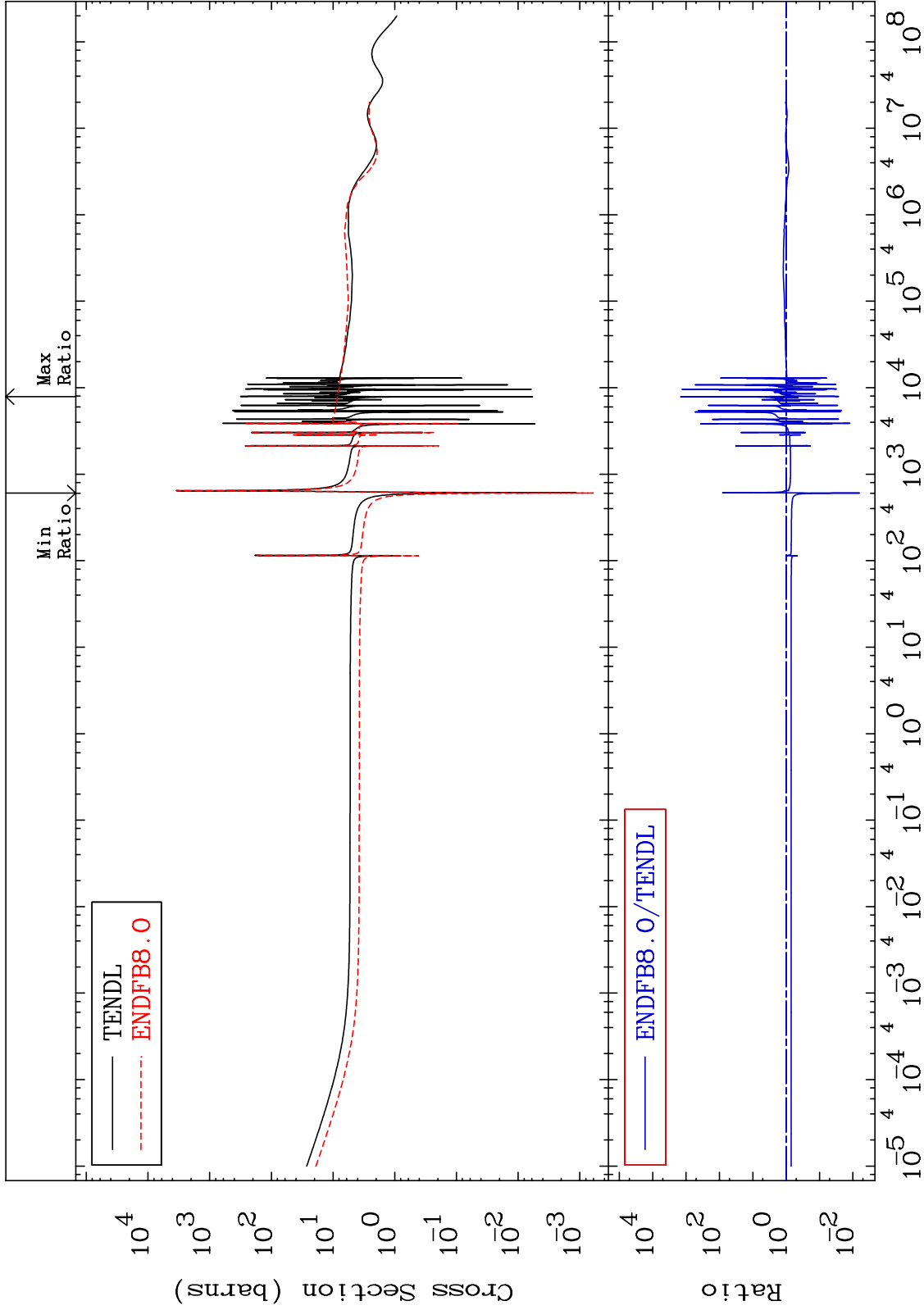
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5449

Elastic
Cross Section

54-Xe-132
-99.37 To 9999. %

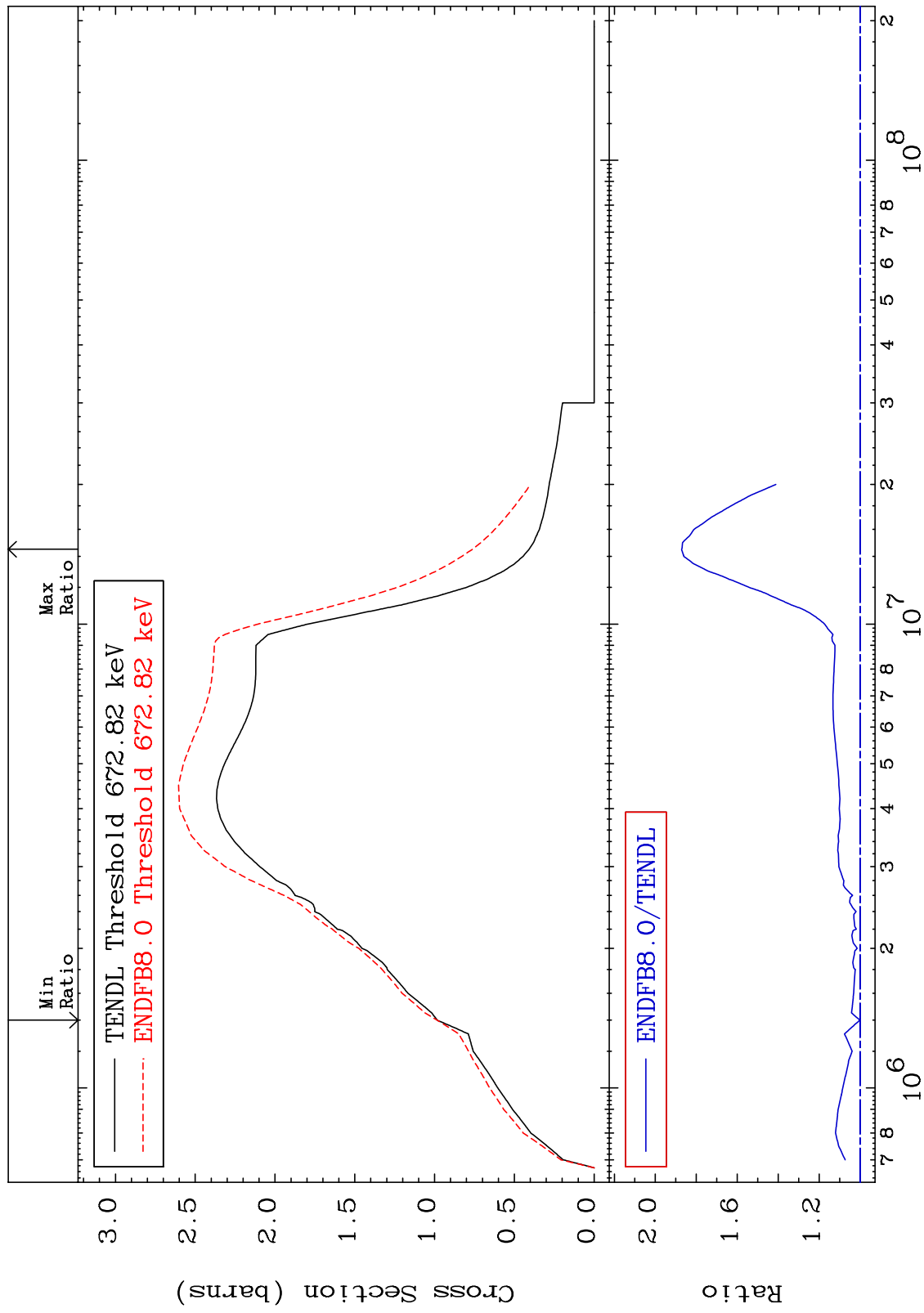


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Incident Energy (eV)

54-Xe-132

MAT 5449 Inelastic Cross Section 54-Xe-132 To 87.23 %



3 54-Xe-132

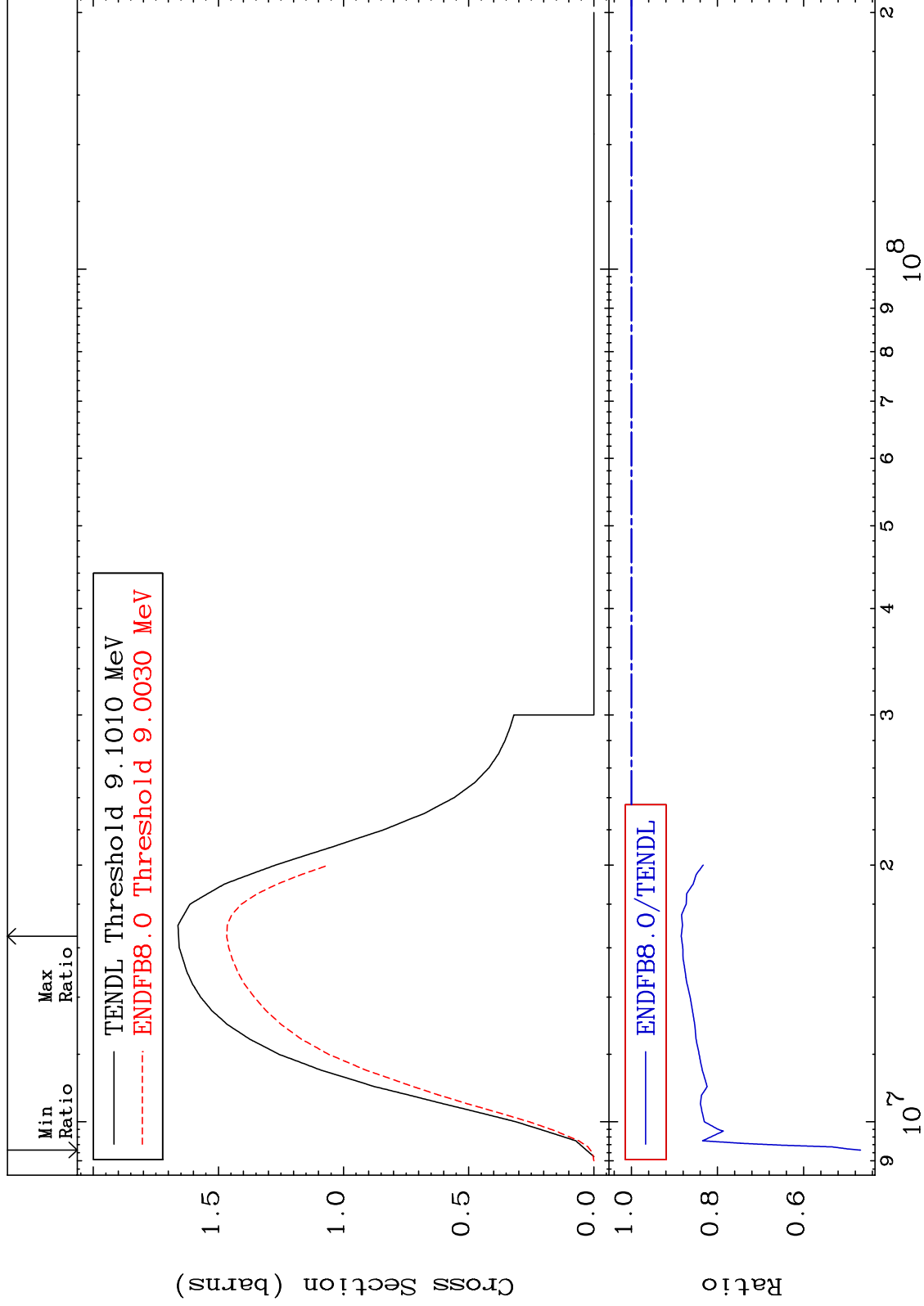
MAT 5449

(n,2n)

54-Xe-132

Cross Section

-53.05 To -11.58%



4

Incident Energy (eV)

54-Xe-132

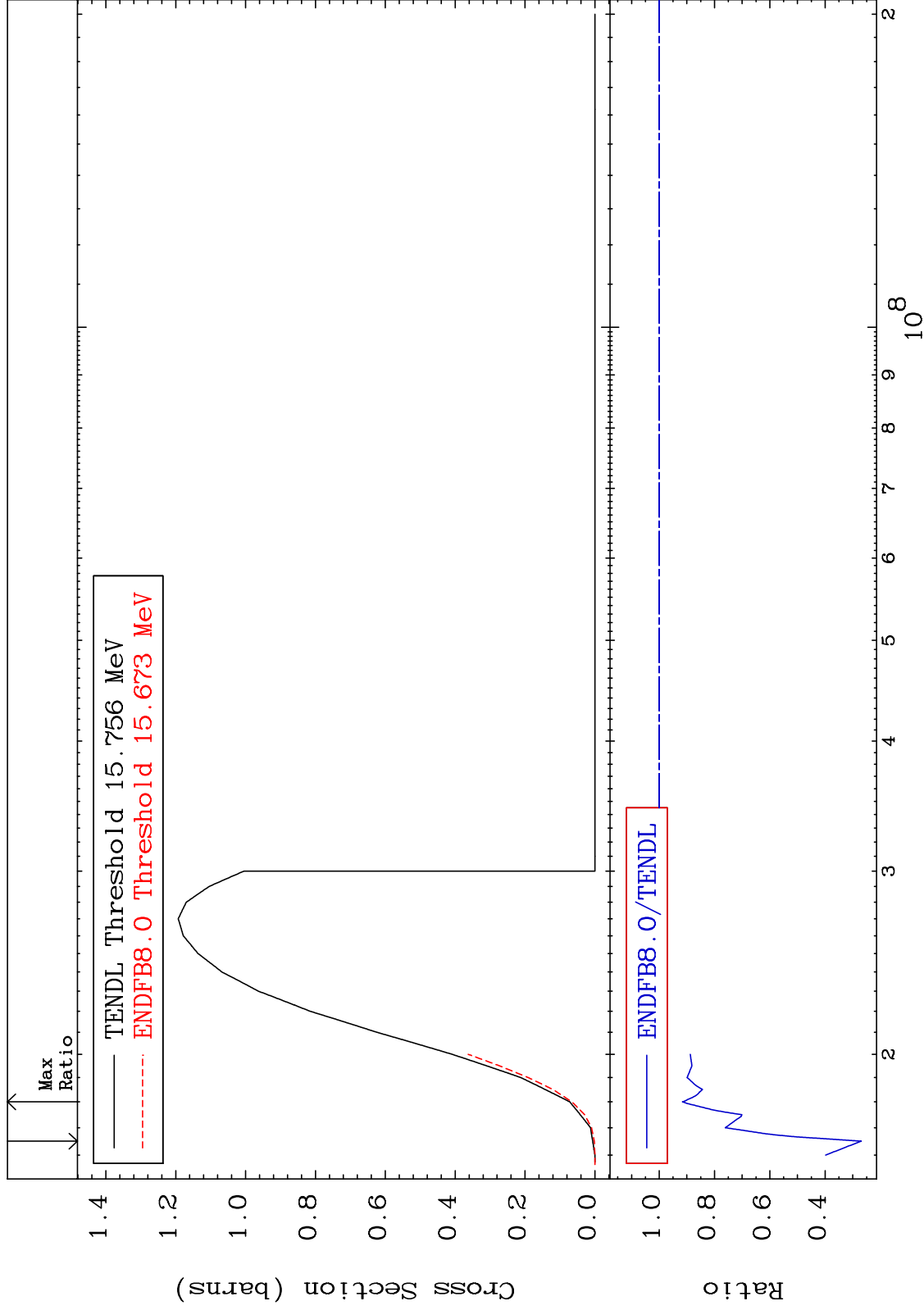
MAT 5449

(n,3n)

54-Xe-132

Cross Section

-73.07 To -8.405%



MAT 5449

(n, n') α

54-Xe-132

-28.54 To 7.335 %

Cross Section

Min Ratio

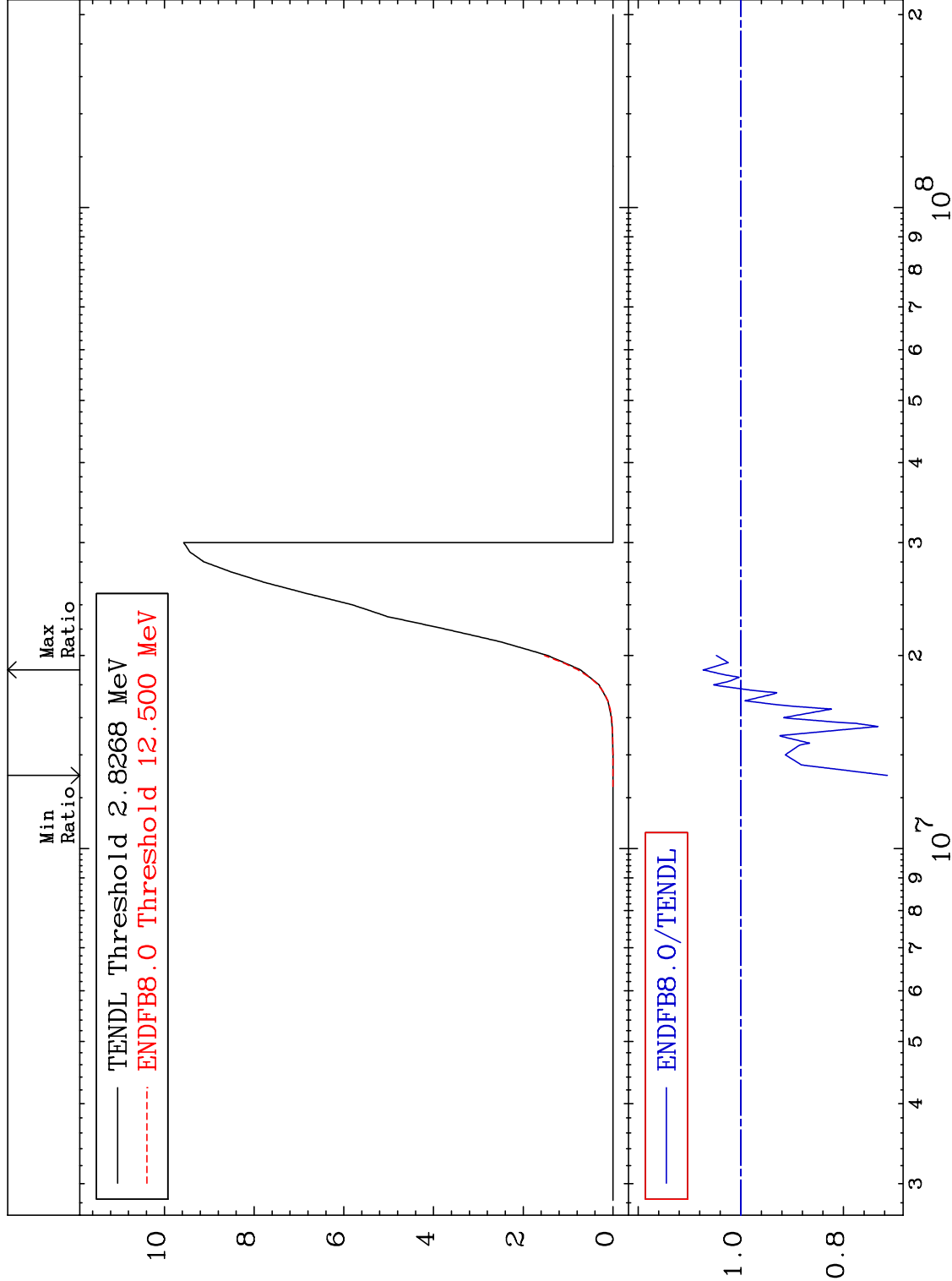
Max Ratio

— TENDL Threshold 2.8268 MeV
- - - ENDFB8.0 Threshold 12.500 MeV

— ENDFB8.0/TENDL

Cross Section (milli-barns)

Ratio

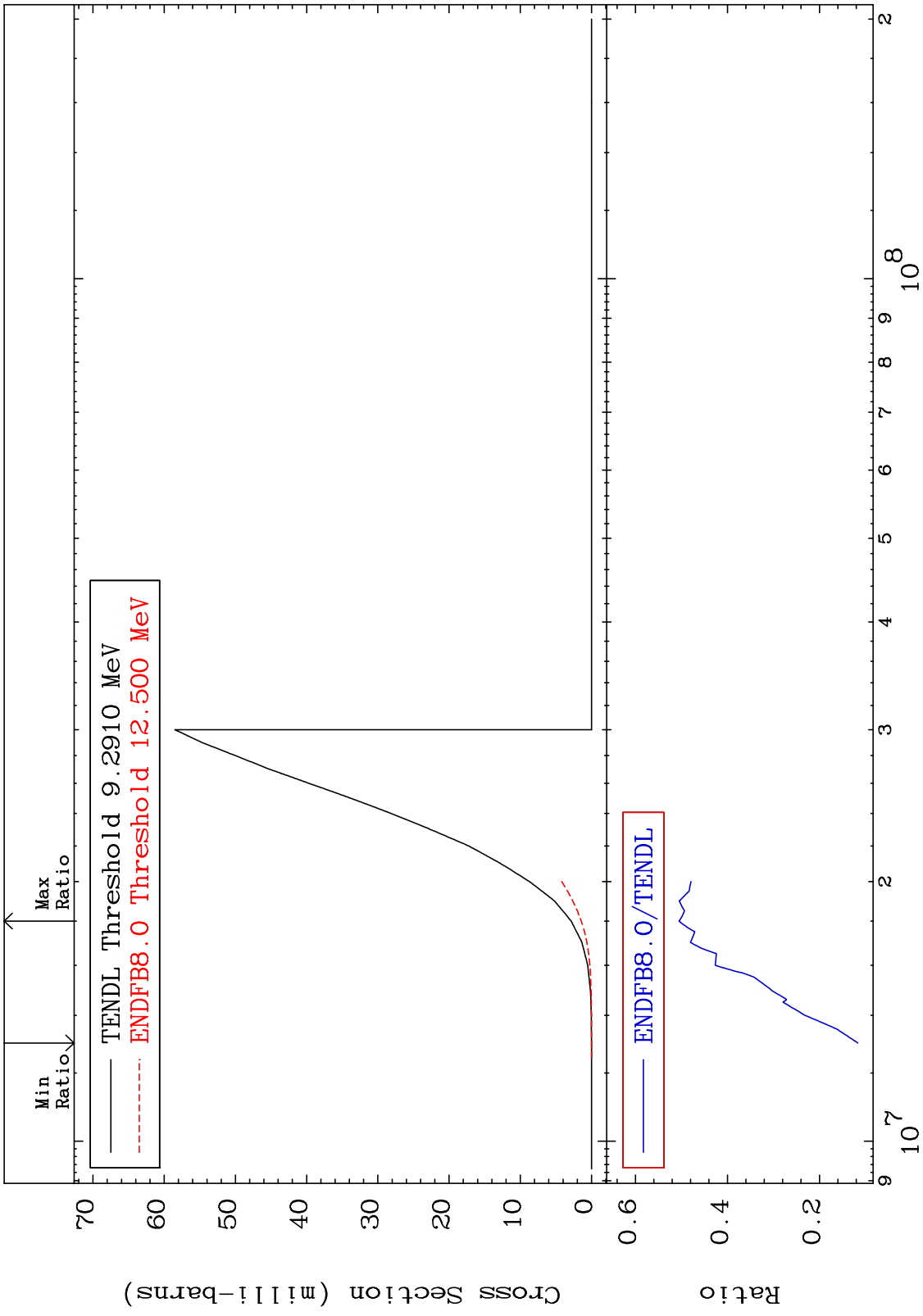


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Incident Energy (eV)

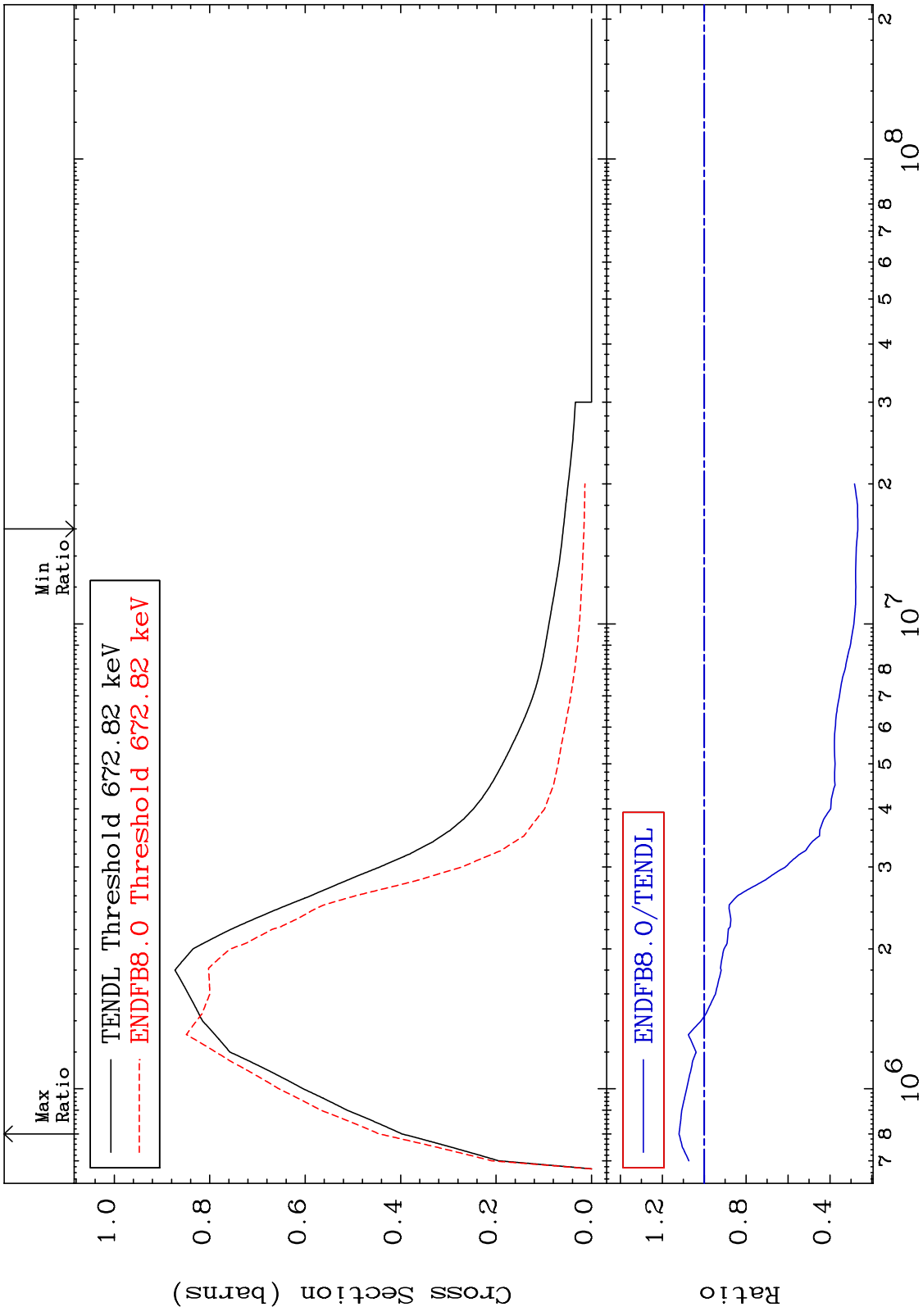
54-Xe-132

MAT 5449 (n,n') p 54-Xe-132
 Cross Section -88.35 To -49.48%

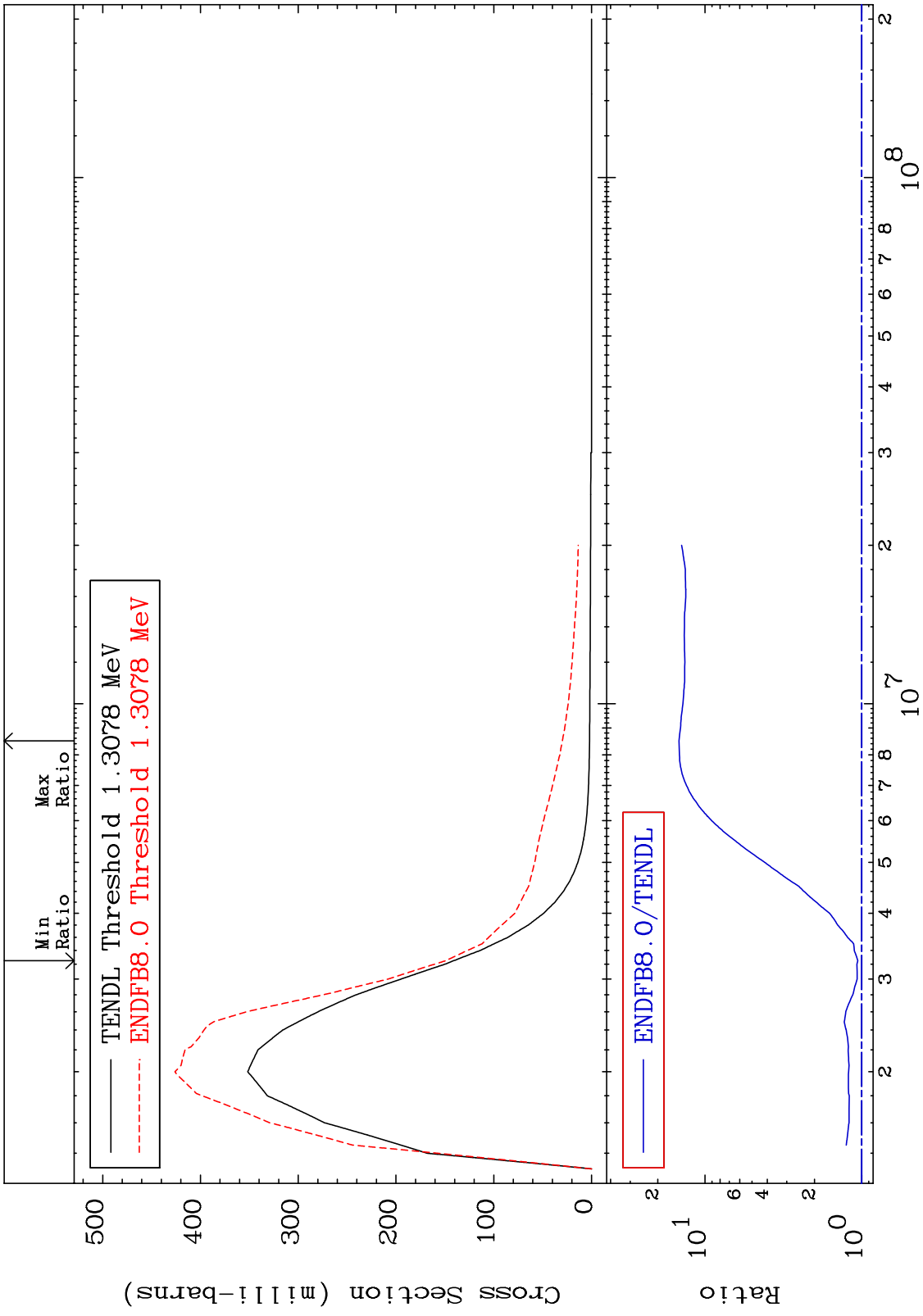


Incident Energy (eV) 54-Xe-132

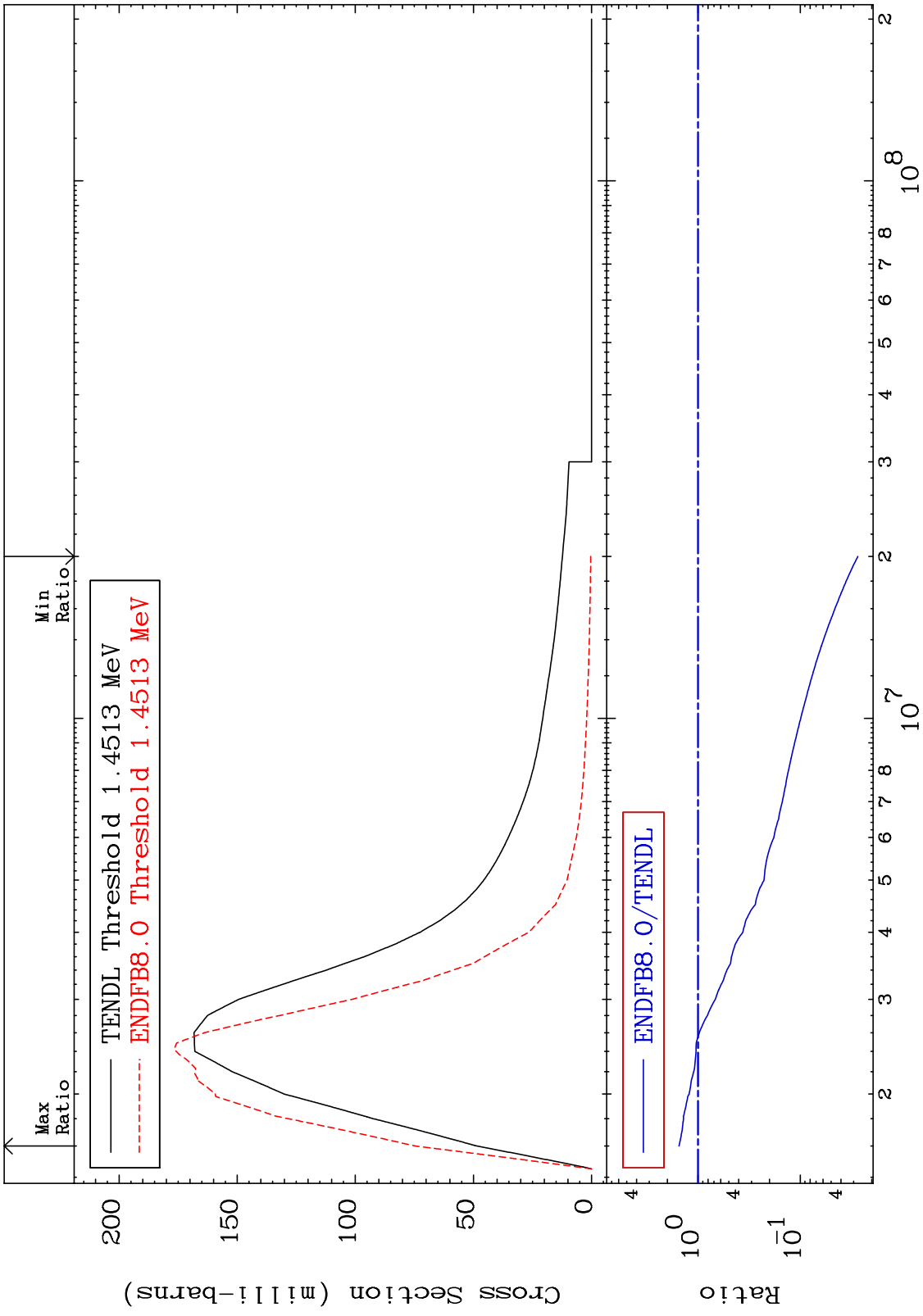
MAT 5449 MT= 51 (n,n') Level 54-Xe-132
 Cross Section -73.30 To 12.02 %



MAT 5449 MT= 52 (n,n') Level Cross Section 54-Xe-132 To 1362. %
 5.719

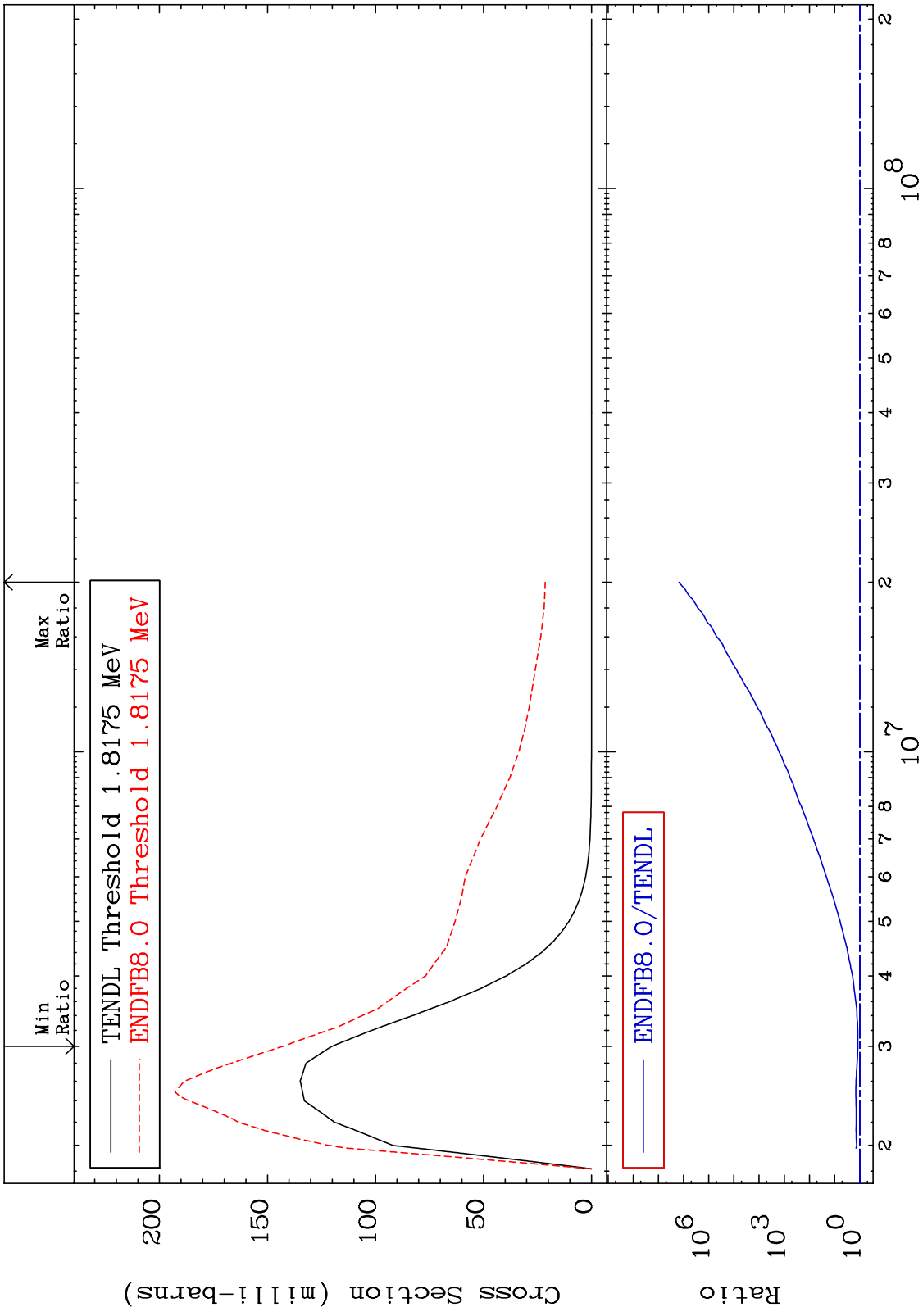


MAT 5449 MT= 53 (n,n') Level Cross Section 54-Xe-132
 -97.27 To 53.63 %

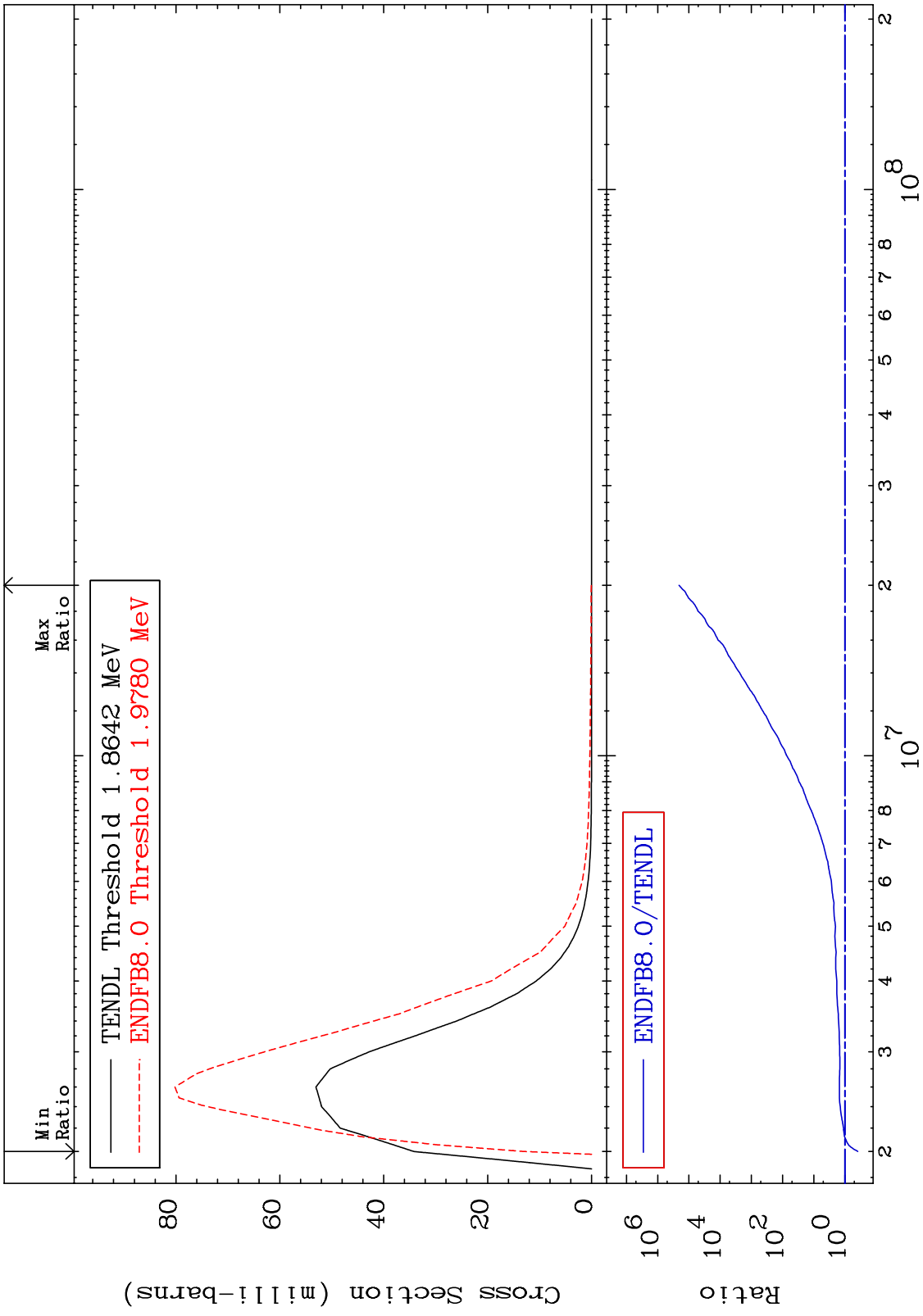


10 Incident Energy (eV) 54-Xe-132

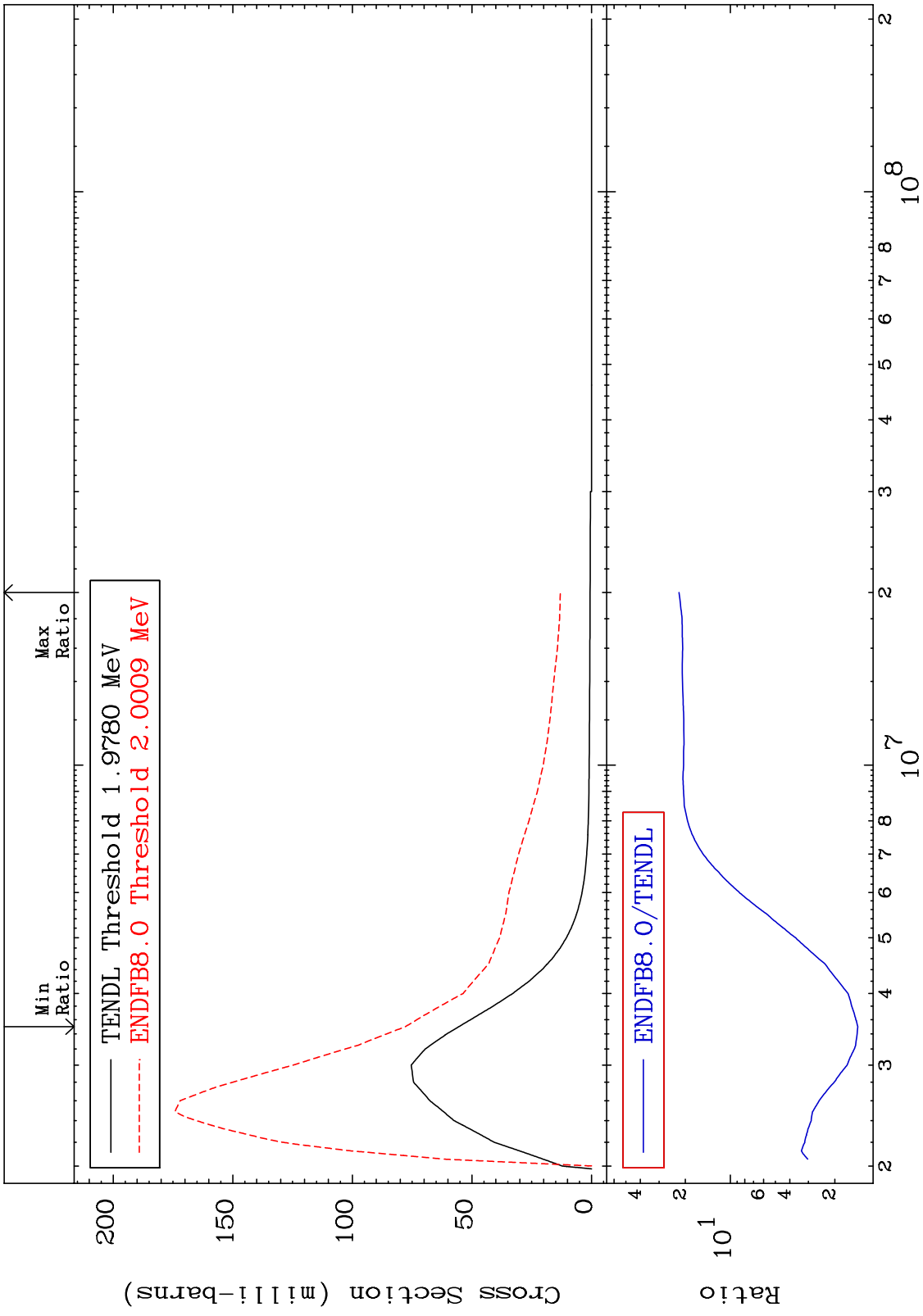
MAT 5449 MT= 54 (n,n') Level Cross Section 54-Xe-132 18.90 To 9999. %



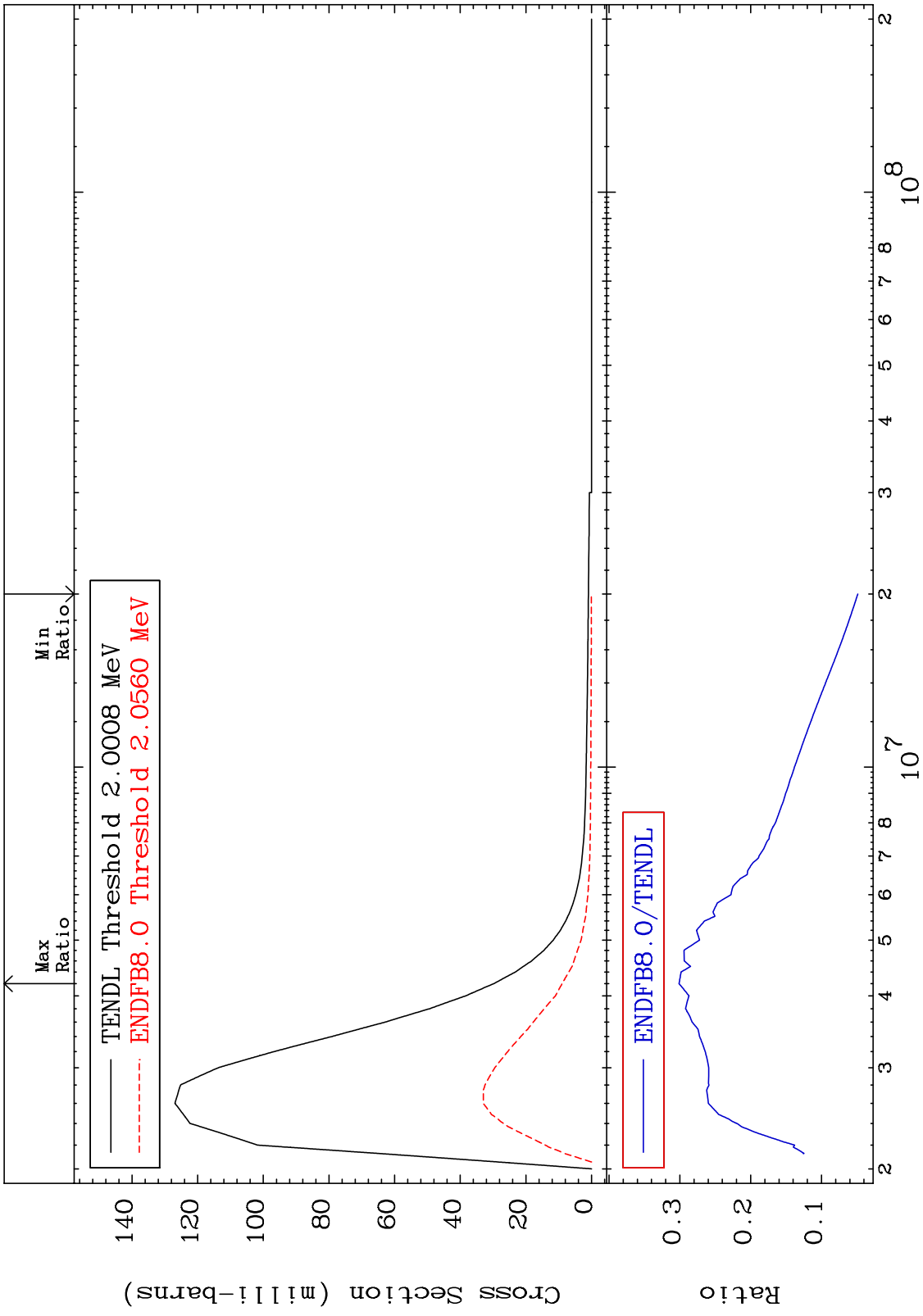
MAT 5449 MT= 55 (n,n') Level Cross Section 54-Xe-132
 -61.28 To 9999. %



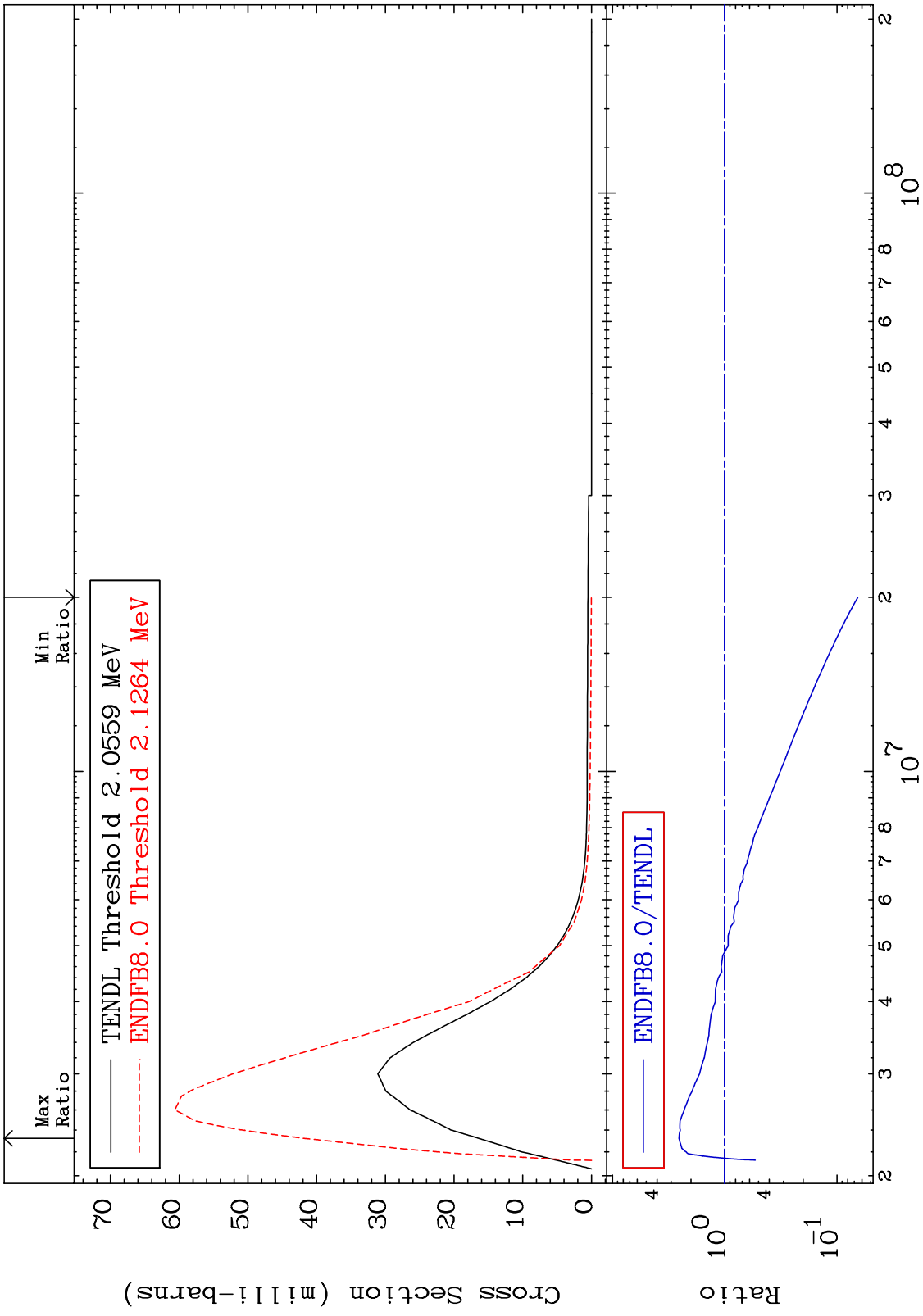
MAT 5449 MT= 56 (n,n') Level Cross Section 54-Xe-132 To 2104. %
 40.20



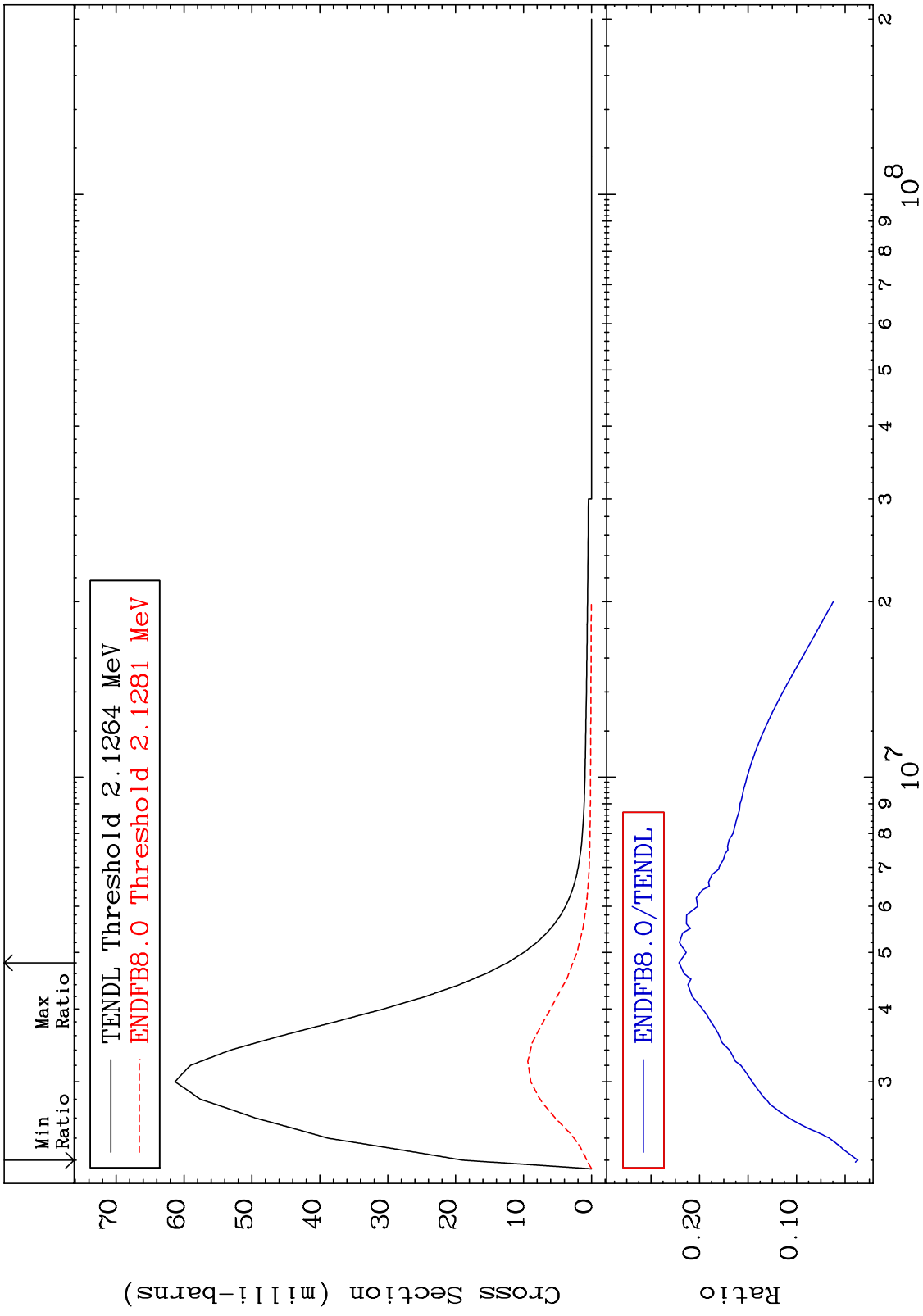
MAT 5449 MT= 57 (n,n') Level Cross Section 54-Xe-132 -95.13 To -69.89%



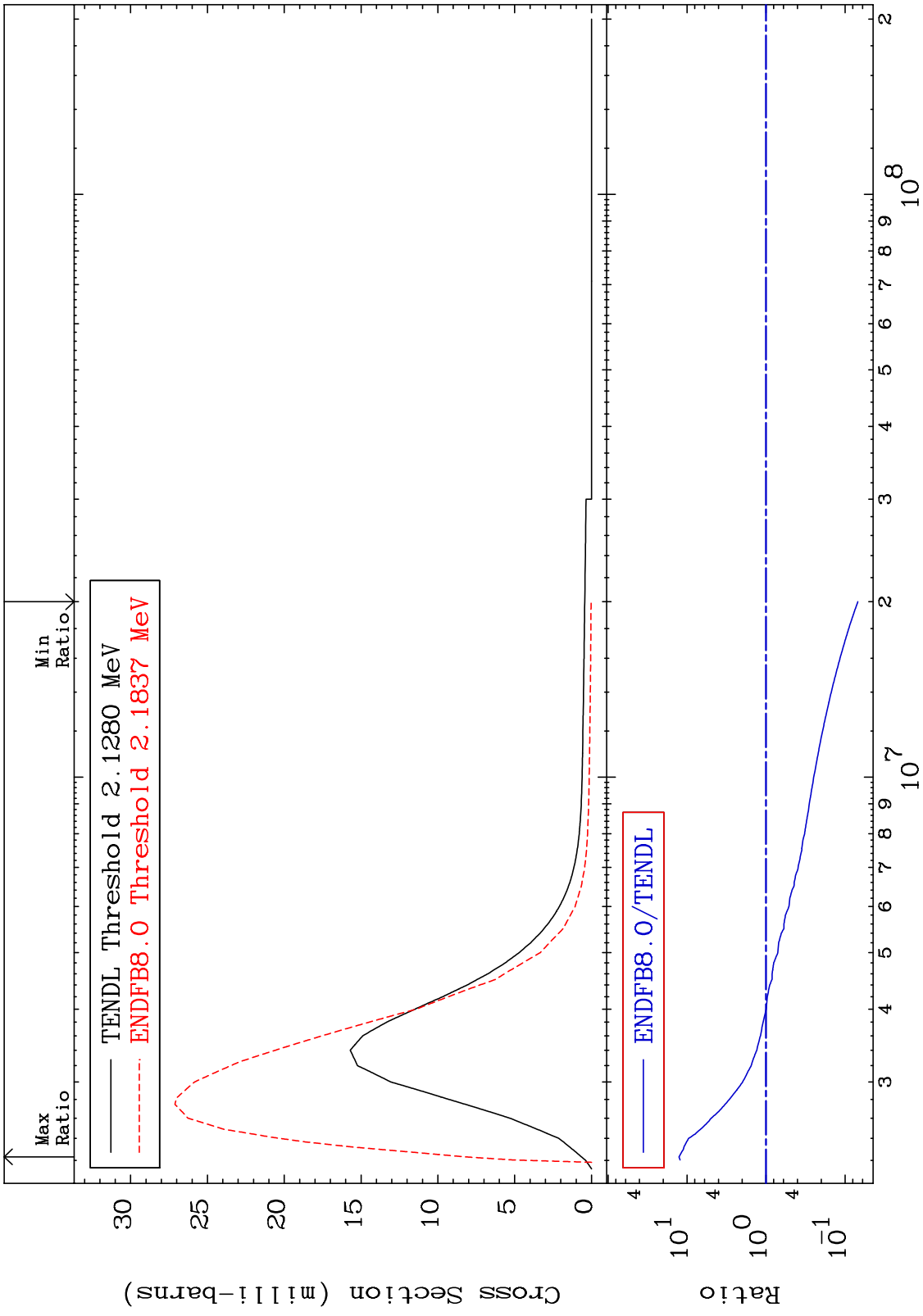
MAT 5449 MT= 58 (n,n') Level Cross Section 54-Xe-132
 -93.49 To 155.0 %



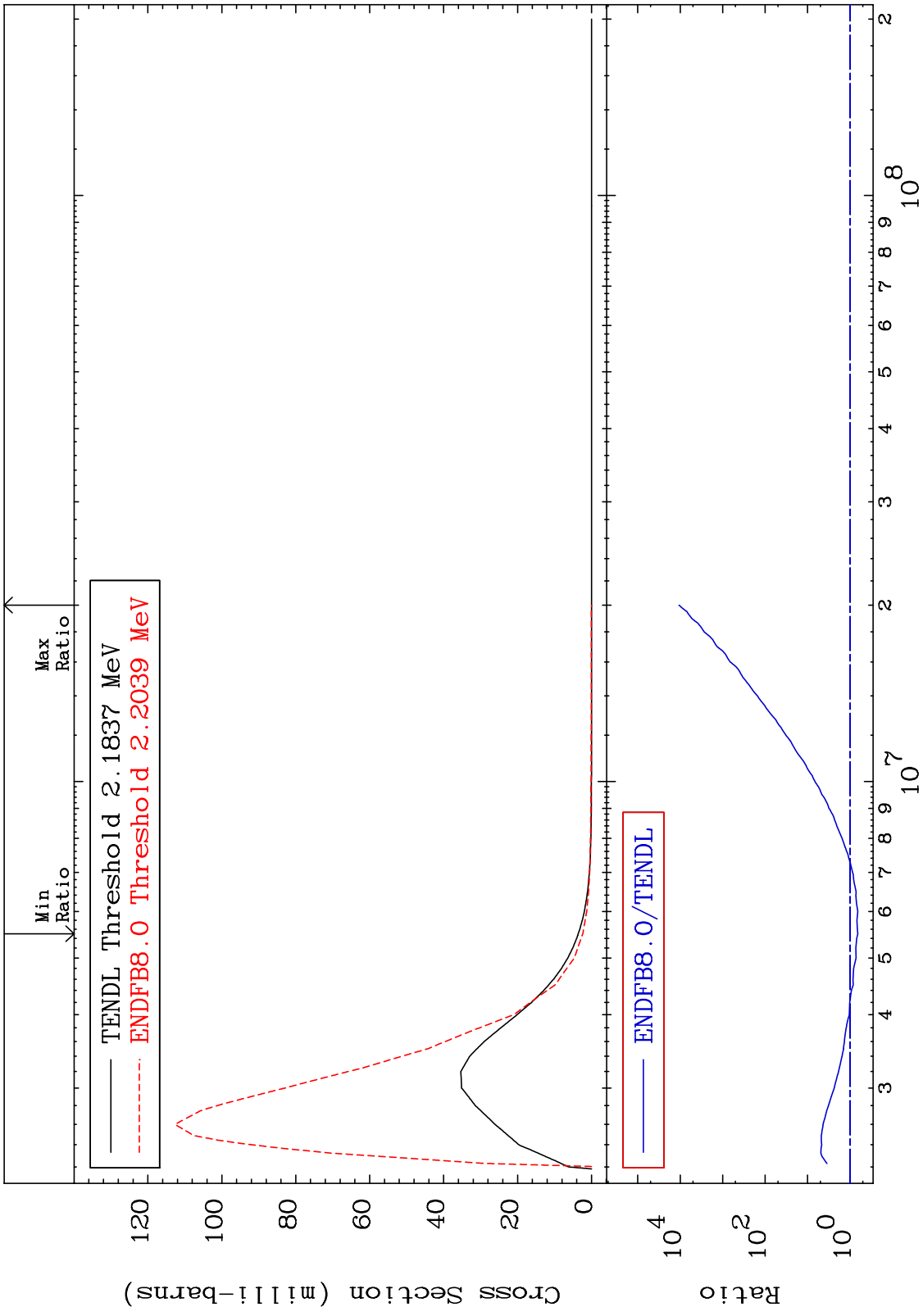
MAT 5449 MT= 59 (n,n') Level Cross Section 54-Xe-132 -96.31 To -77.89%



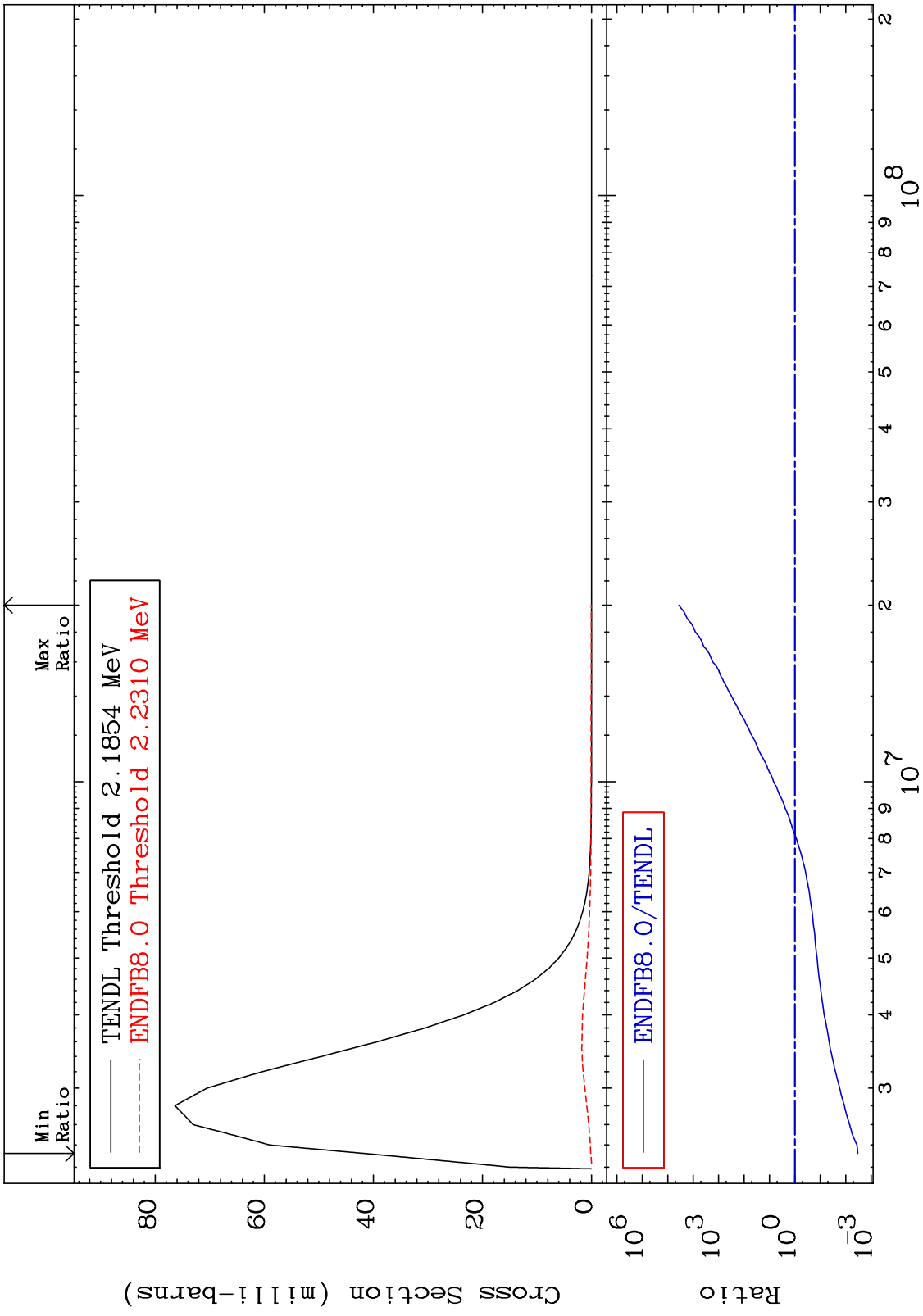
MAT 5449 MT= 60 (n,n') Level Cross Section 54-Xe-132 -93.12 To 1162. %



MAT 5449 MT= 61 (n,n') Level Cross Section 54-Xe-132
 -34.34 To 9999. %



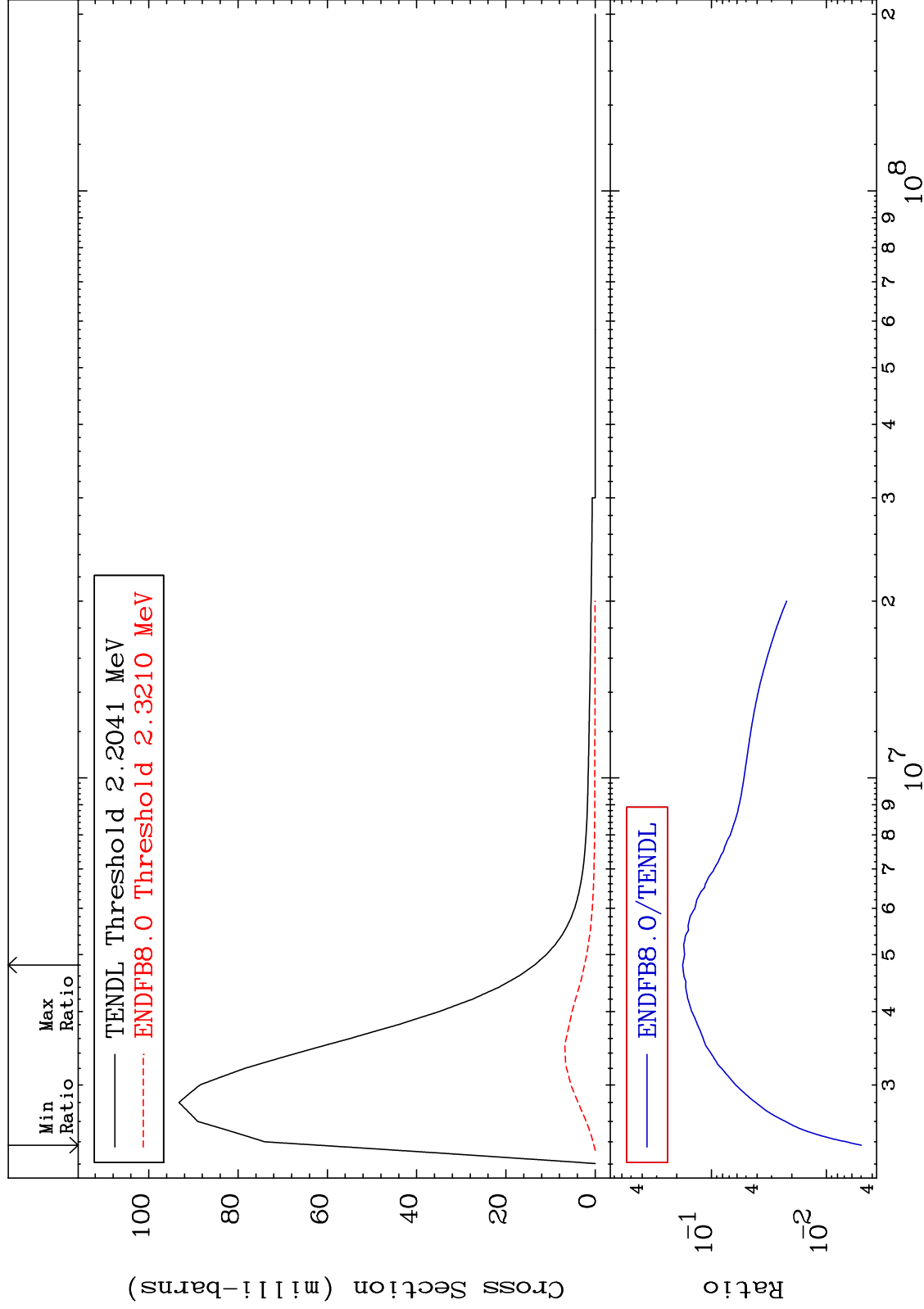
MAT 5449 MT= 62 (n,n') Level Cross Section 54-Xe-132
 -99.67 To 9999. %



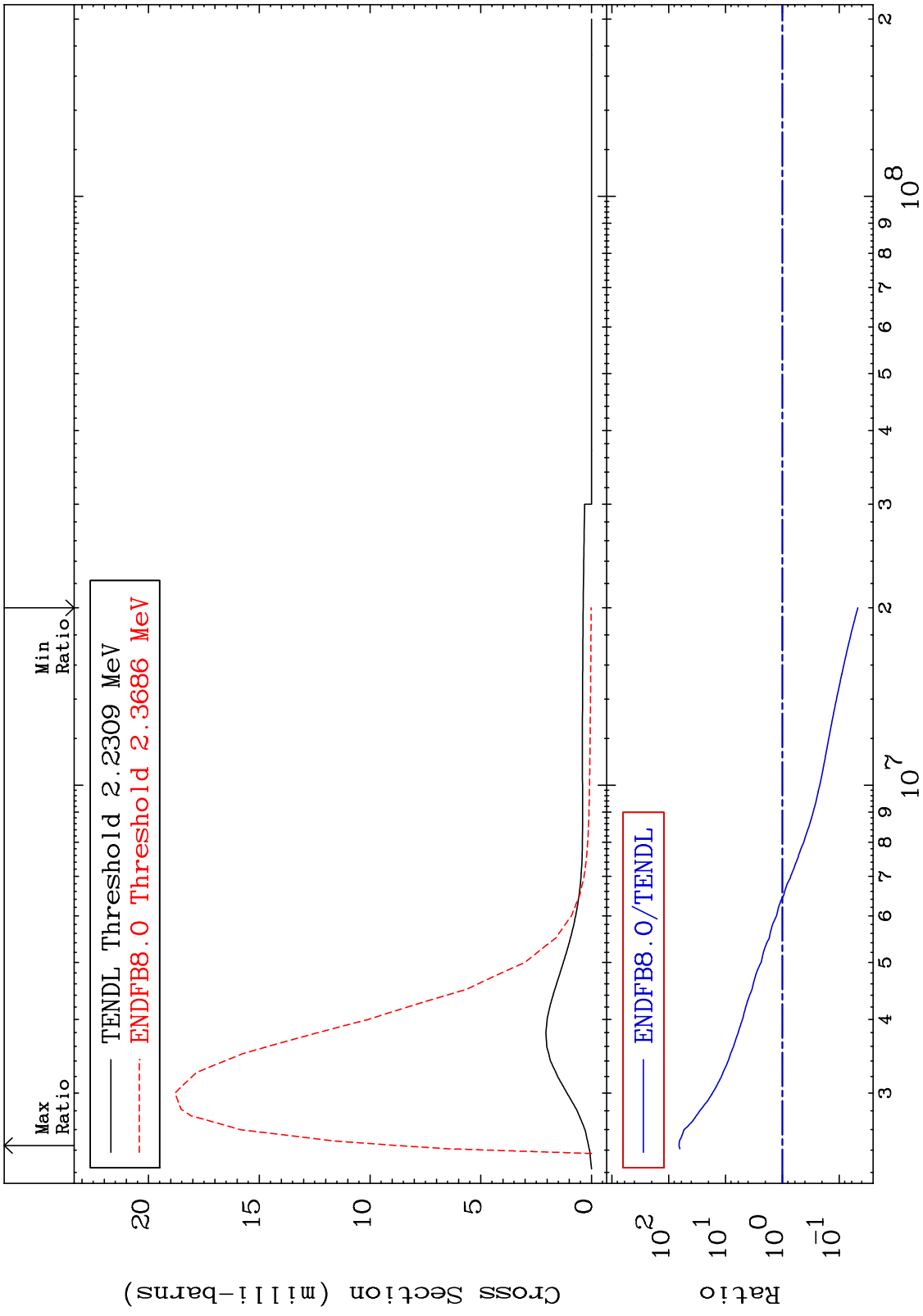
MAT 5449

MT= 63 (n,n') Level
Cross Section

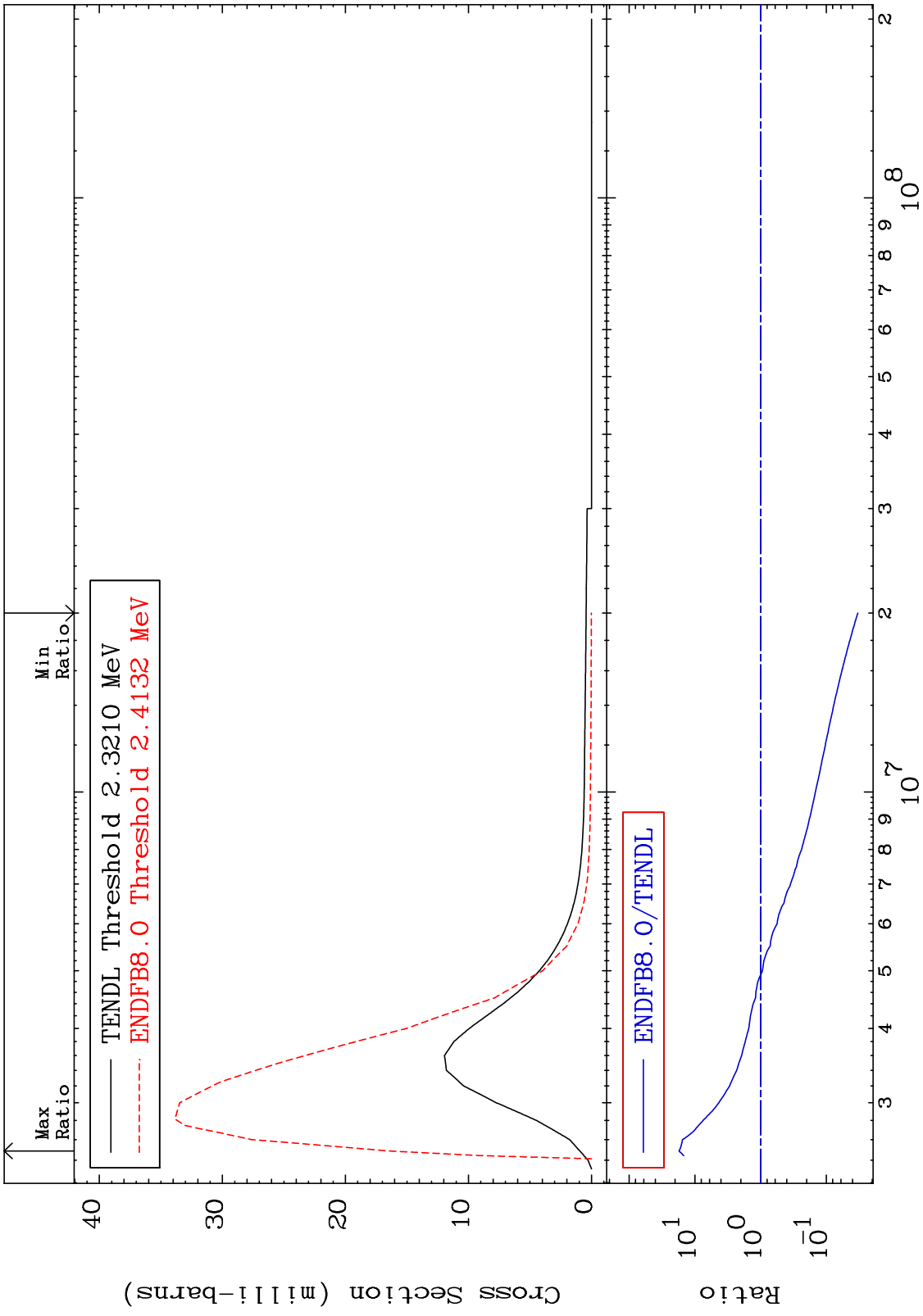
54-Xe-132
-99.50 To -82.23%



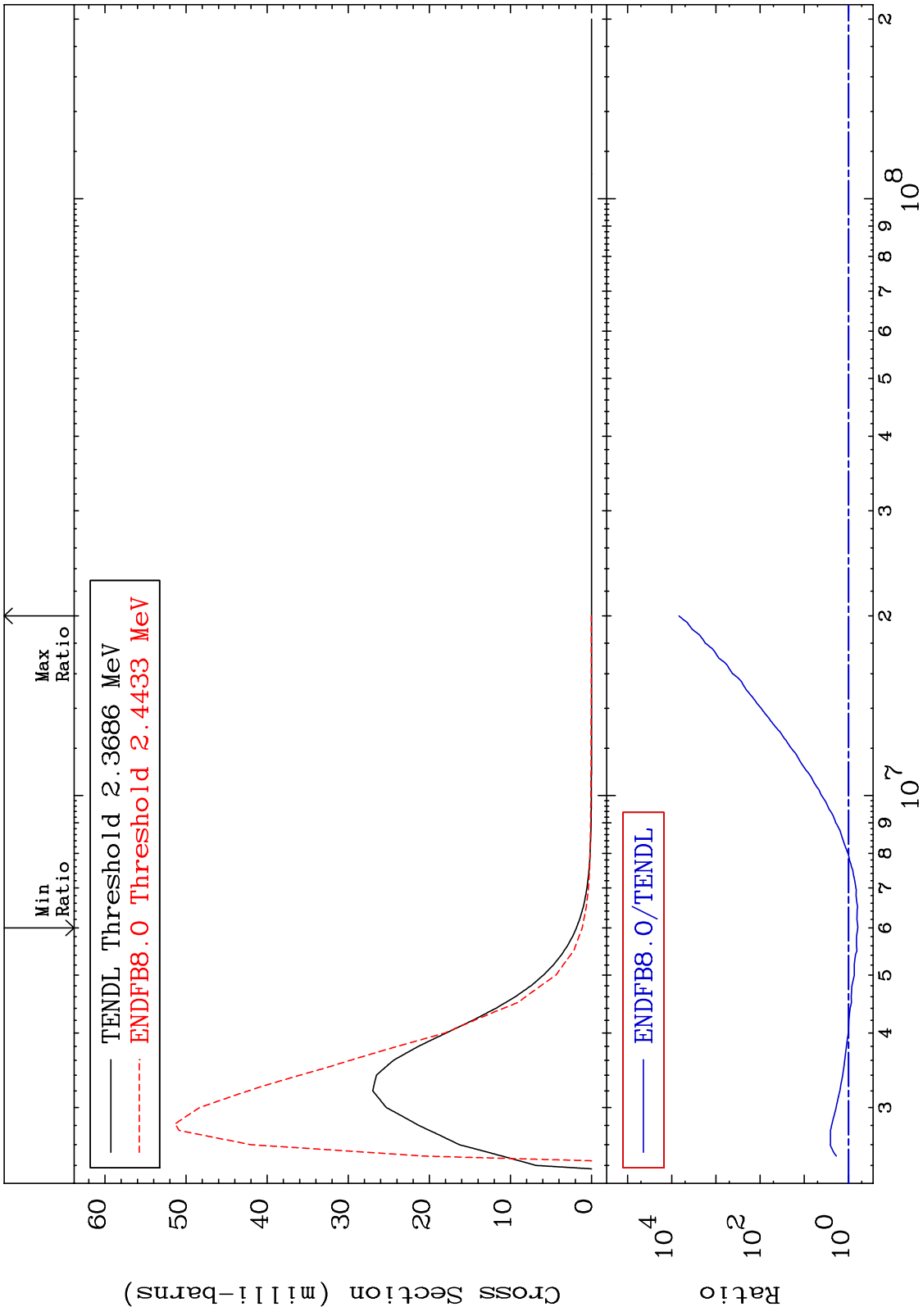
MAT 5449 MT= 64 (n,n') Level Cross Section 54-Xe-132
 -95.31 To 6472. %



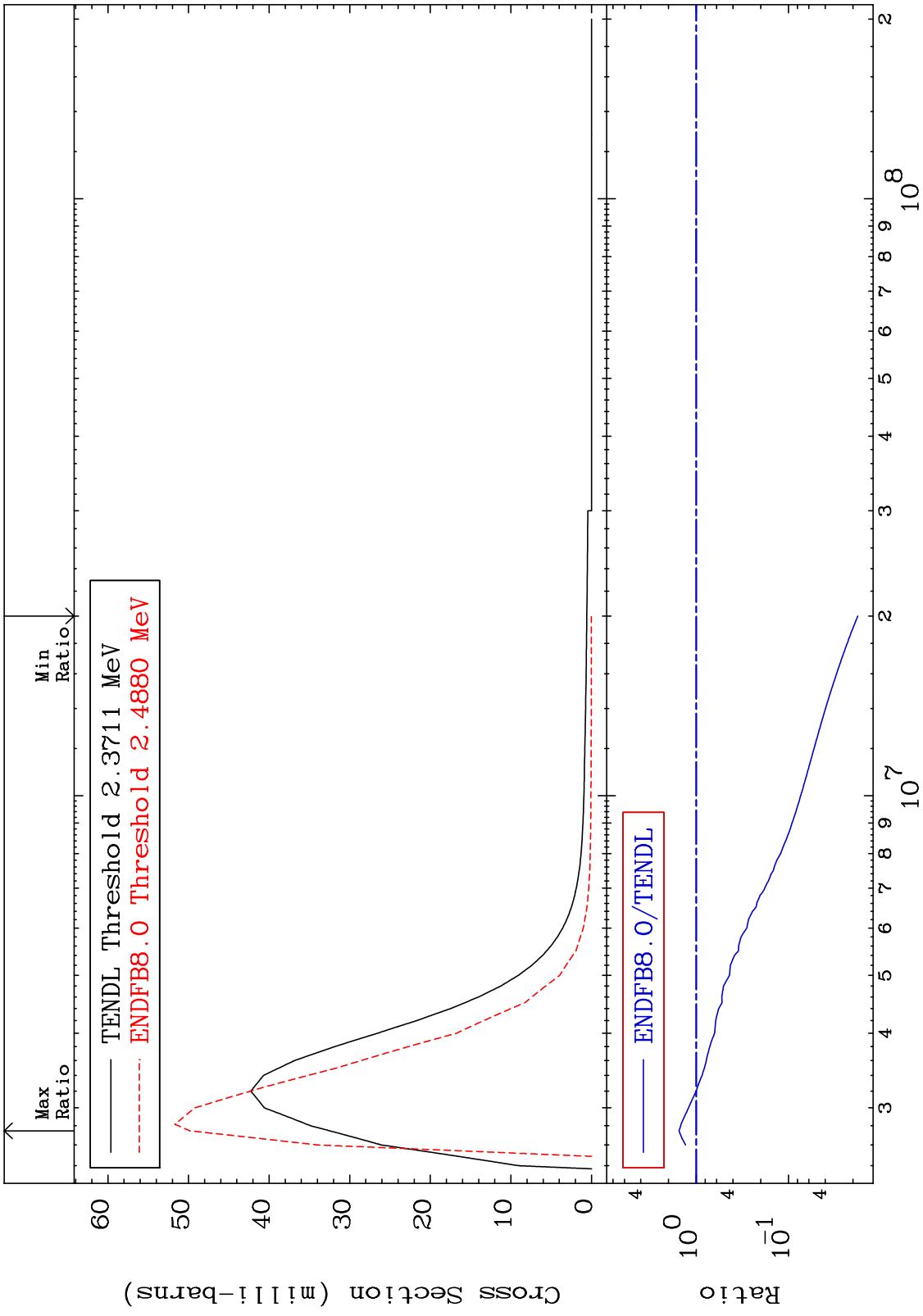
MAT 5449 MT= 65 (n,n') Level Cross Section 54-Xe-132 -96.68 To 1643. %



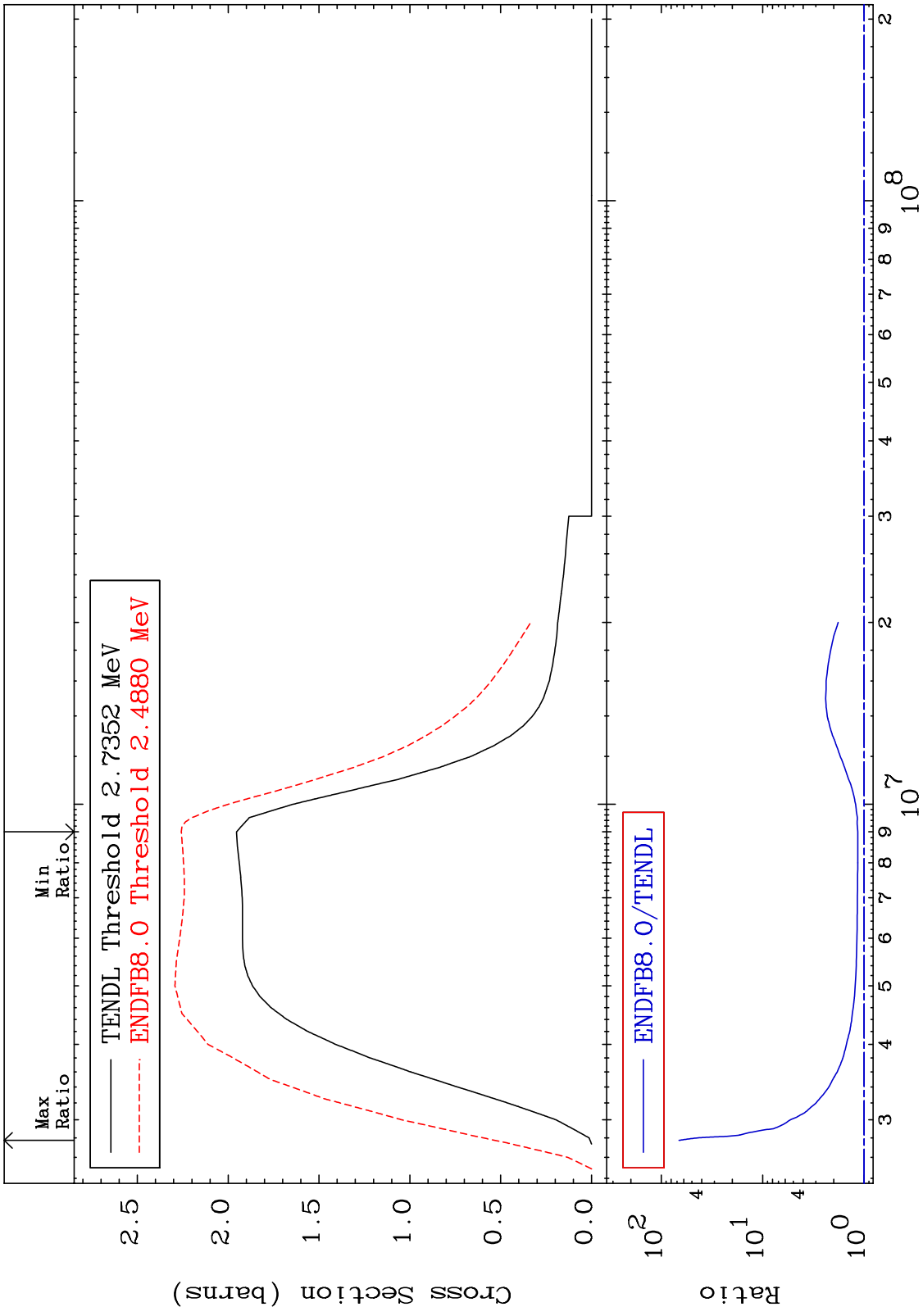
MAT 5449 MT= 66 (n,n') Level Cross Section 54-Xe-132 -38.47 To 9999. %



MAT 5449 MT= 67 (n,n') Level Cross Section 54-Xe-132 -98.23 To 53.50 %



MAT 5449 (n, n') Continuum Cross Section 54-Xe-132 To 6591. %
 15.55



Incident Energy (eV) 54-Xe-132

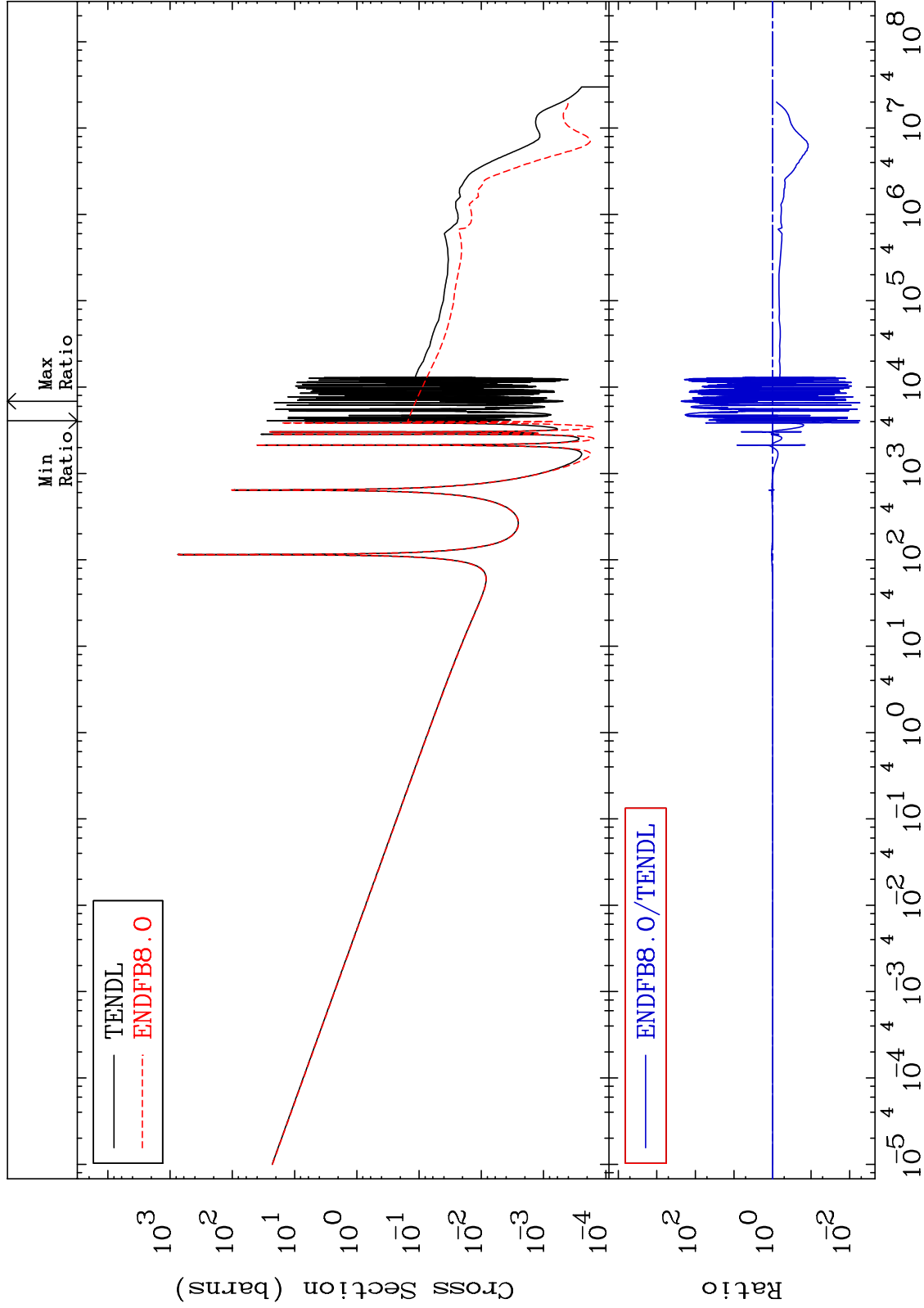
MAT 5449

(n, γ)

54-Xe-132

Cross Section

-99.45 To 9999. %



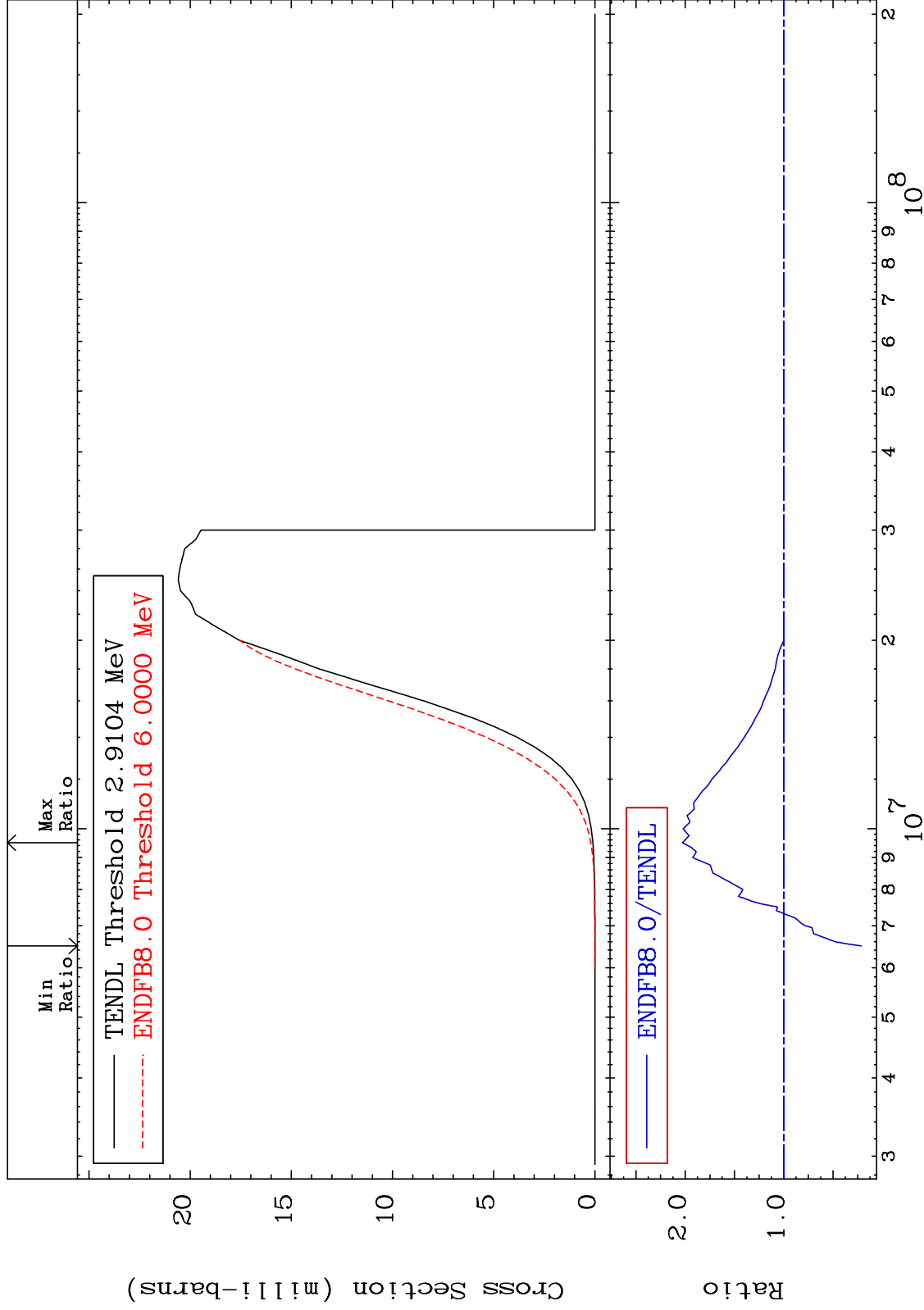
MAT 5449

(n,p)

54-Xe-132

Cross Section

-78.64 To 102.8 %

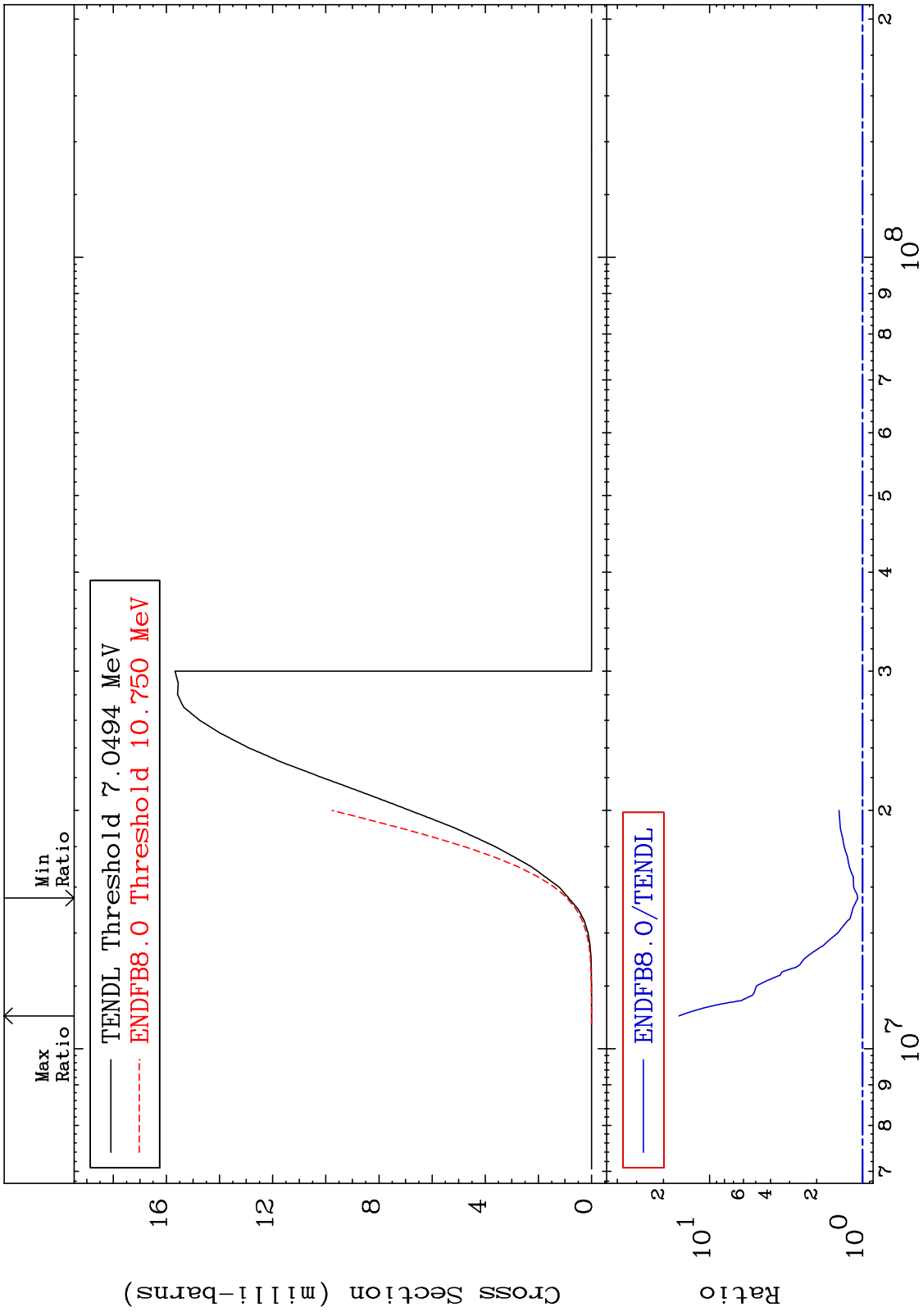


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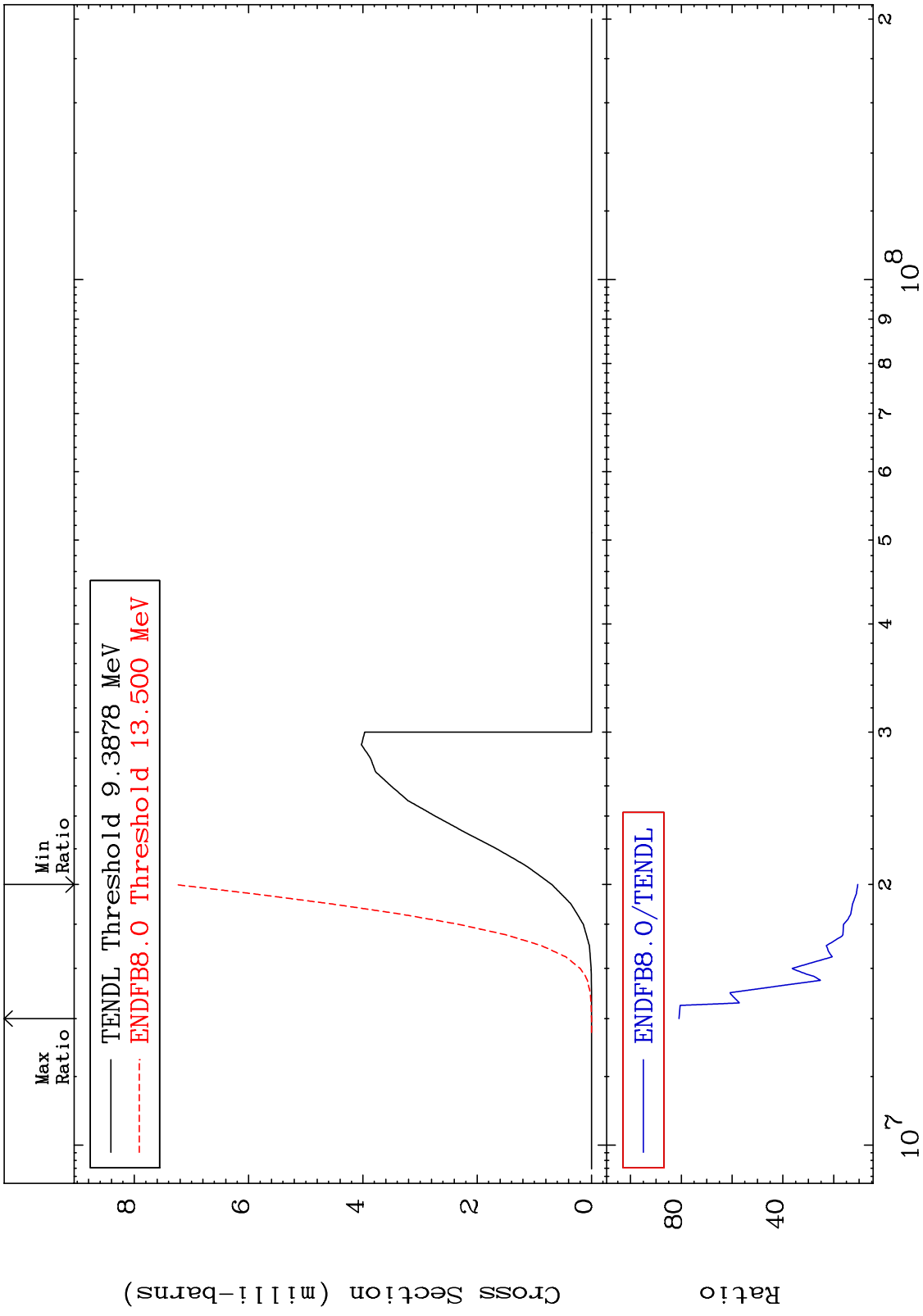
Incident Energy (eV)

54-Xe-132

MAT 5449 (n,d) Cross Section 54-Xe-132 To 1483. %
7.560



MAT 5449 (n,t) 54-Xe-132
 Cross Section 949.1 To 7990. %



29 Incident Energy (eV) 54-Xe-132

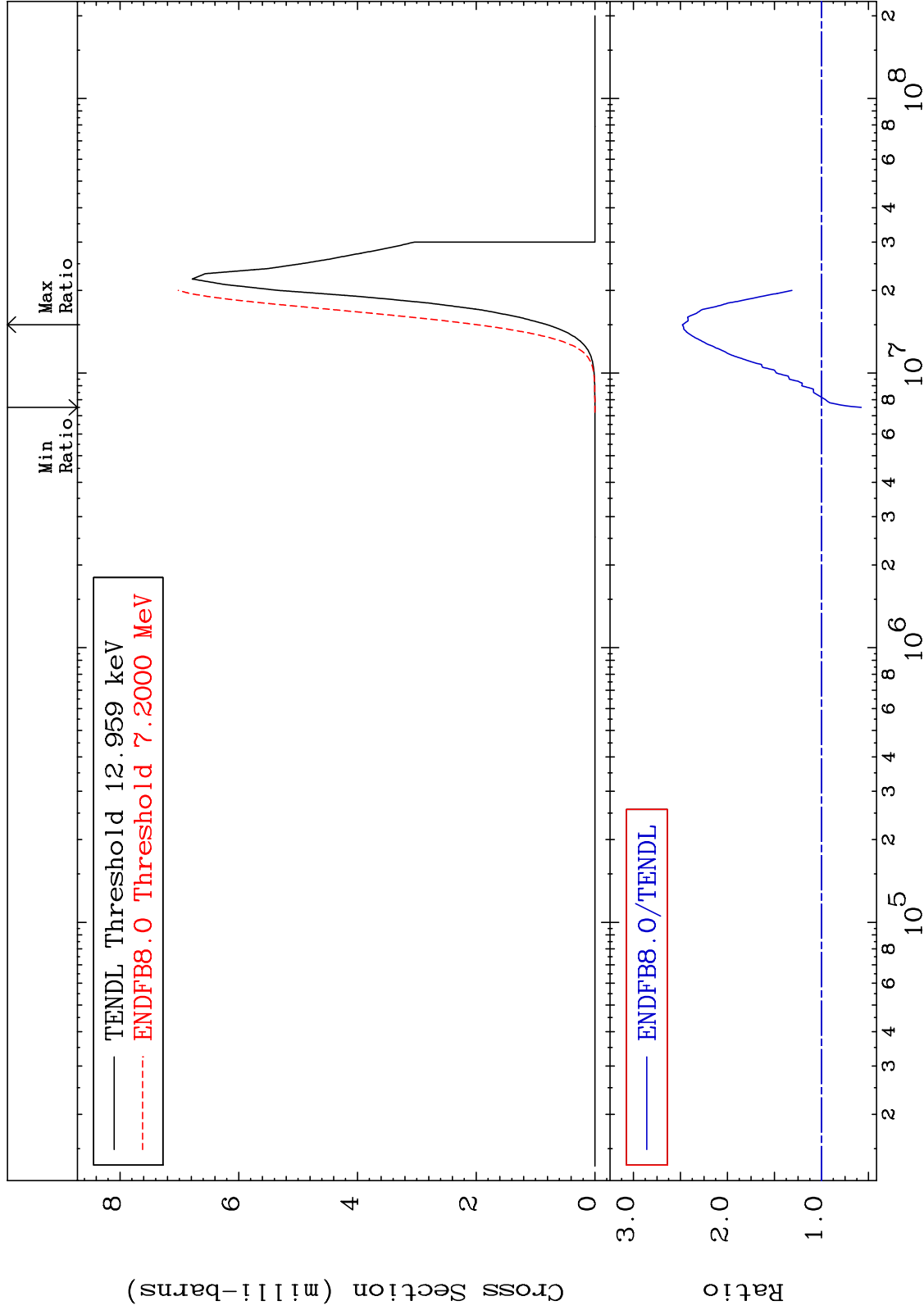
MAT 5449

(n, α)

54-Xe-132

Cross Section

-42.27 To 147.9 %



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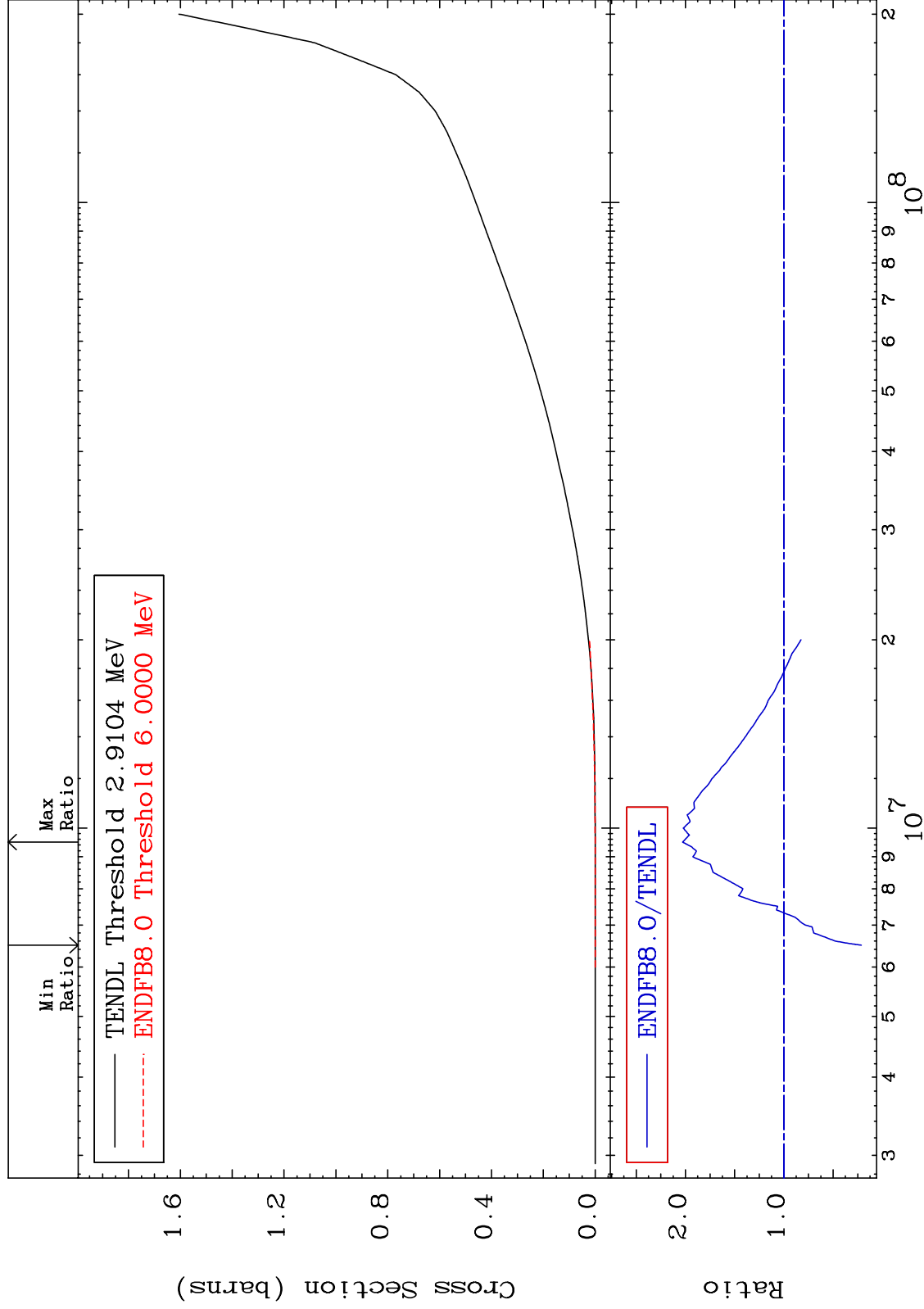
Incident Energy (eV)

54-Xe-132

MAT 5449

Hydrogen Production
Cross Section

54-Xe-132
-78.64 To 102.8 %

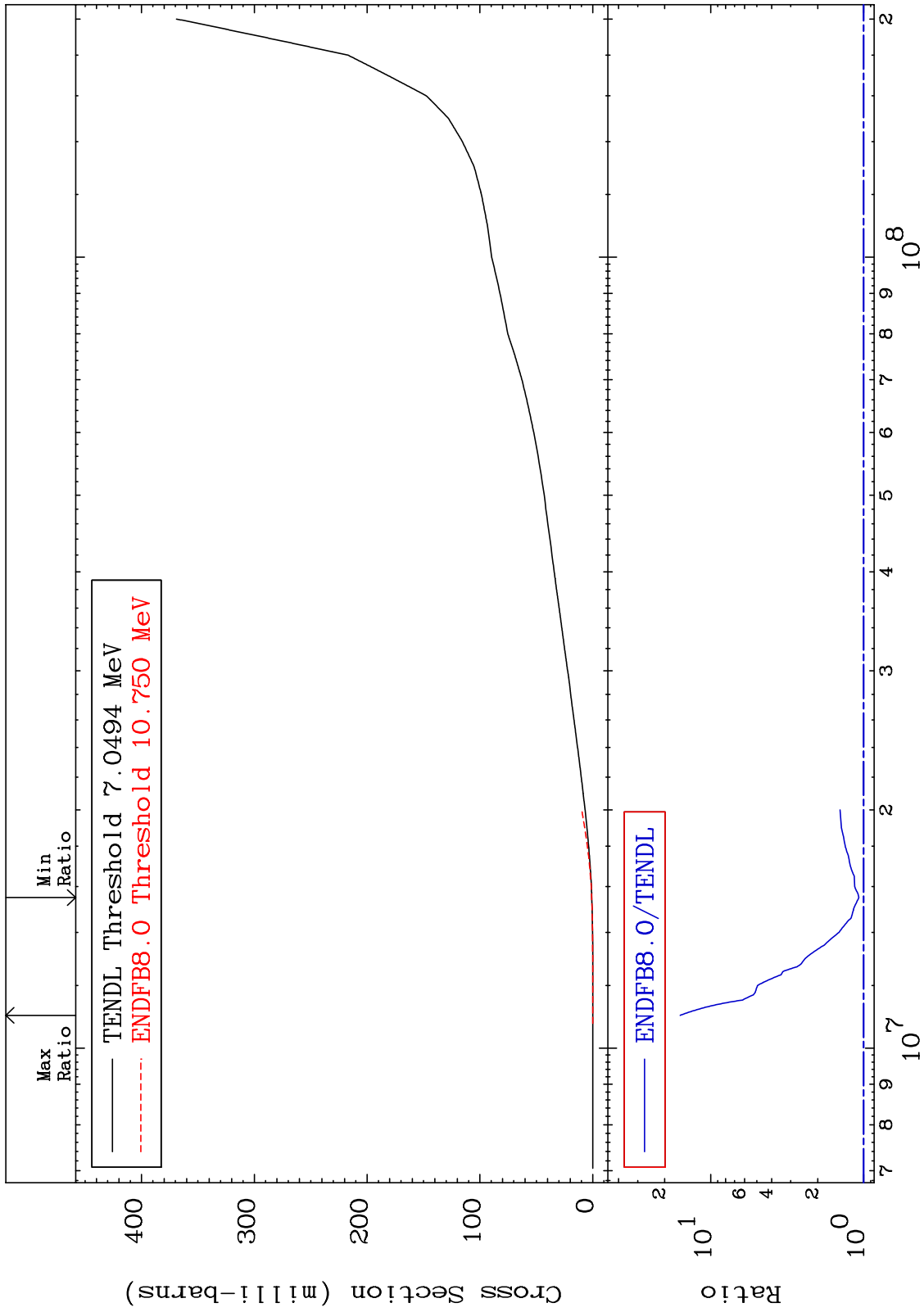


31

Incident Energy (eV)

54-Xe-132

MAT 5449 Deuterium Production Cross Section 54-Xe-132 To 1483. %
7.560

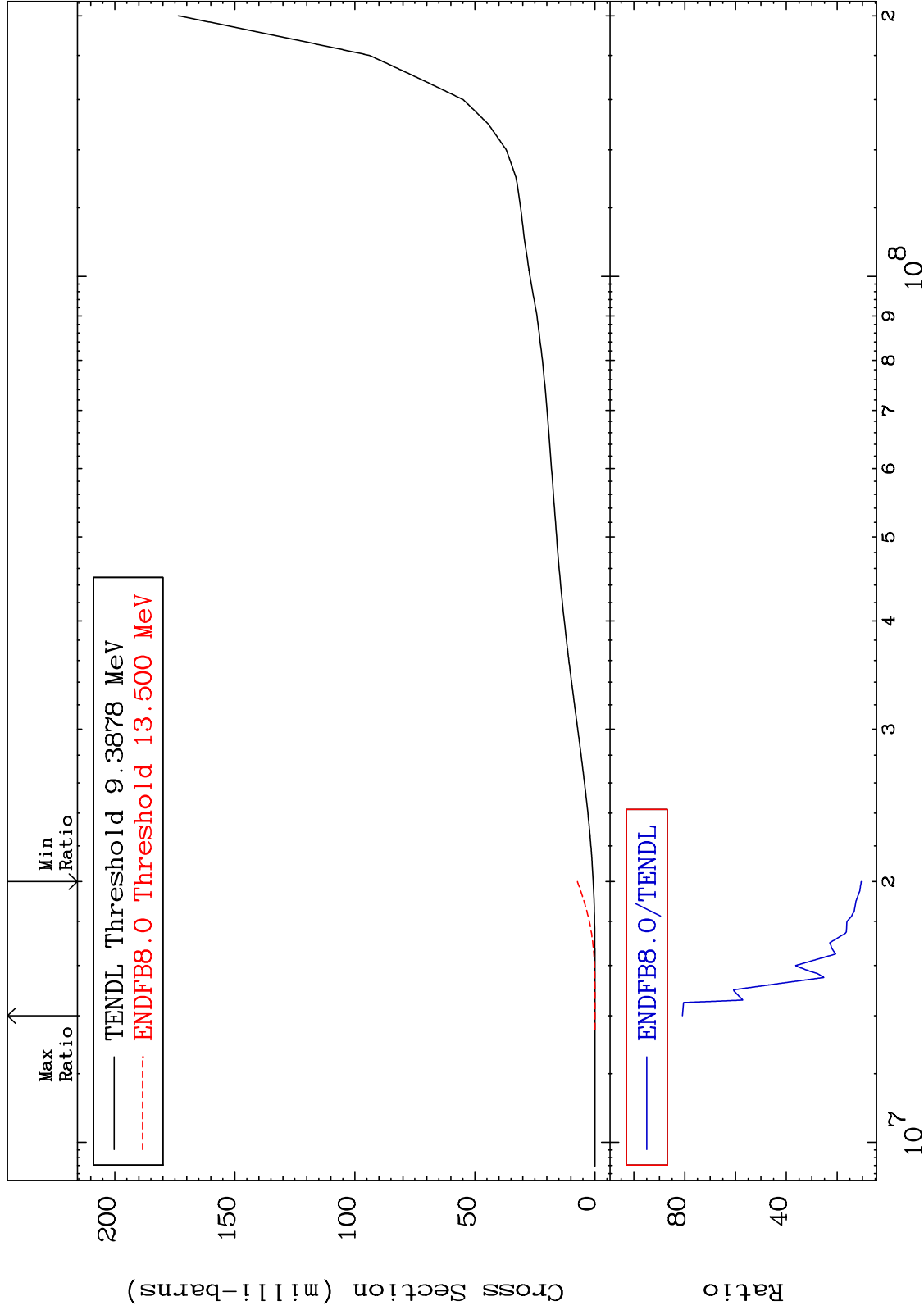


32 54-Xe-132 Incident Energy (eV)

MAT 5449

Tritium Production
Cross Section

54-Xe-132
949.0 To 7990. %



33

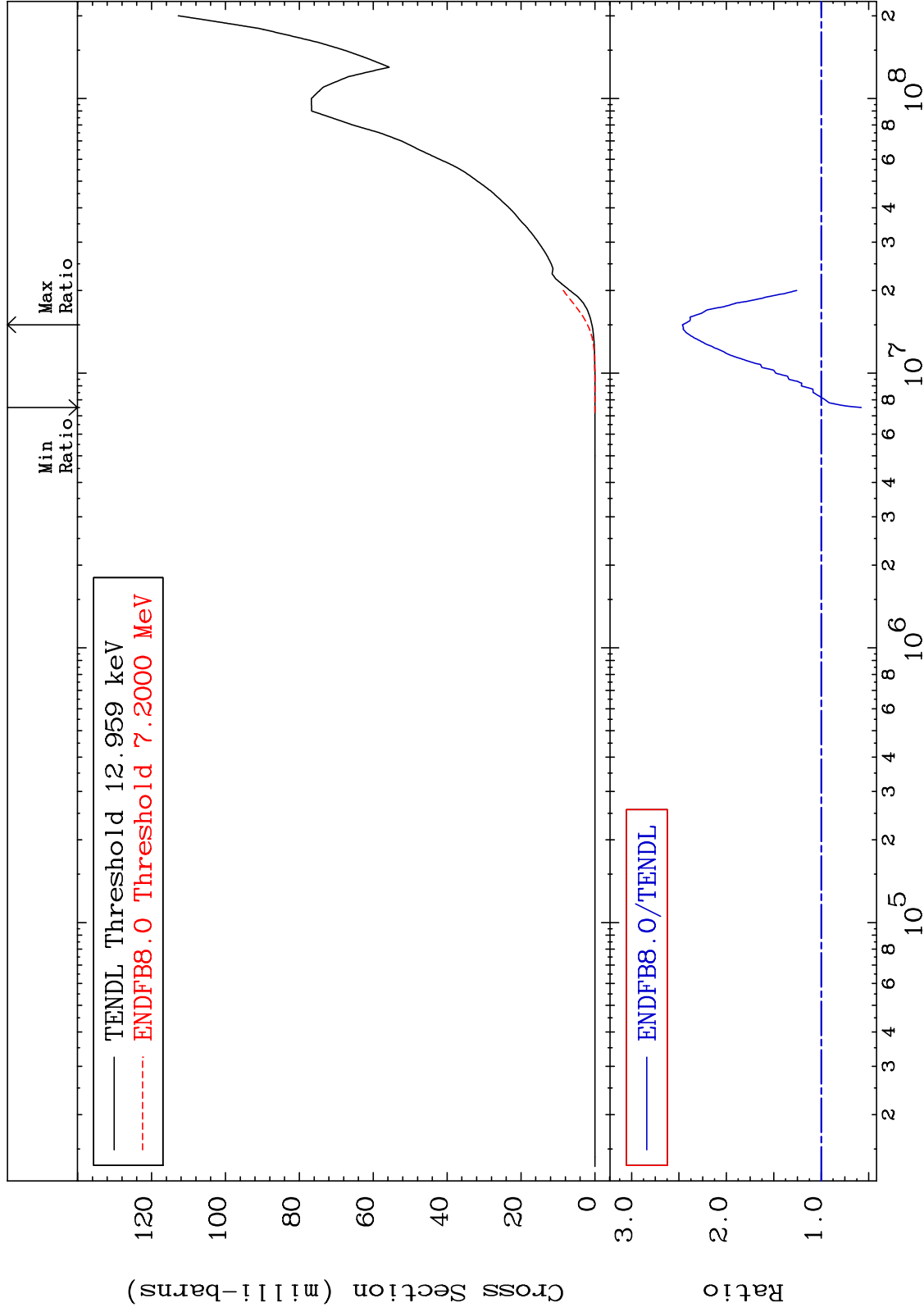
Incident Energy (eV)

54-Xe-132

MAT 5449

He-4 Production
Cross Section

54-Xe-132
-42.27 To 146.3 %

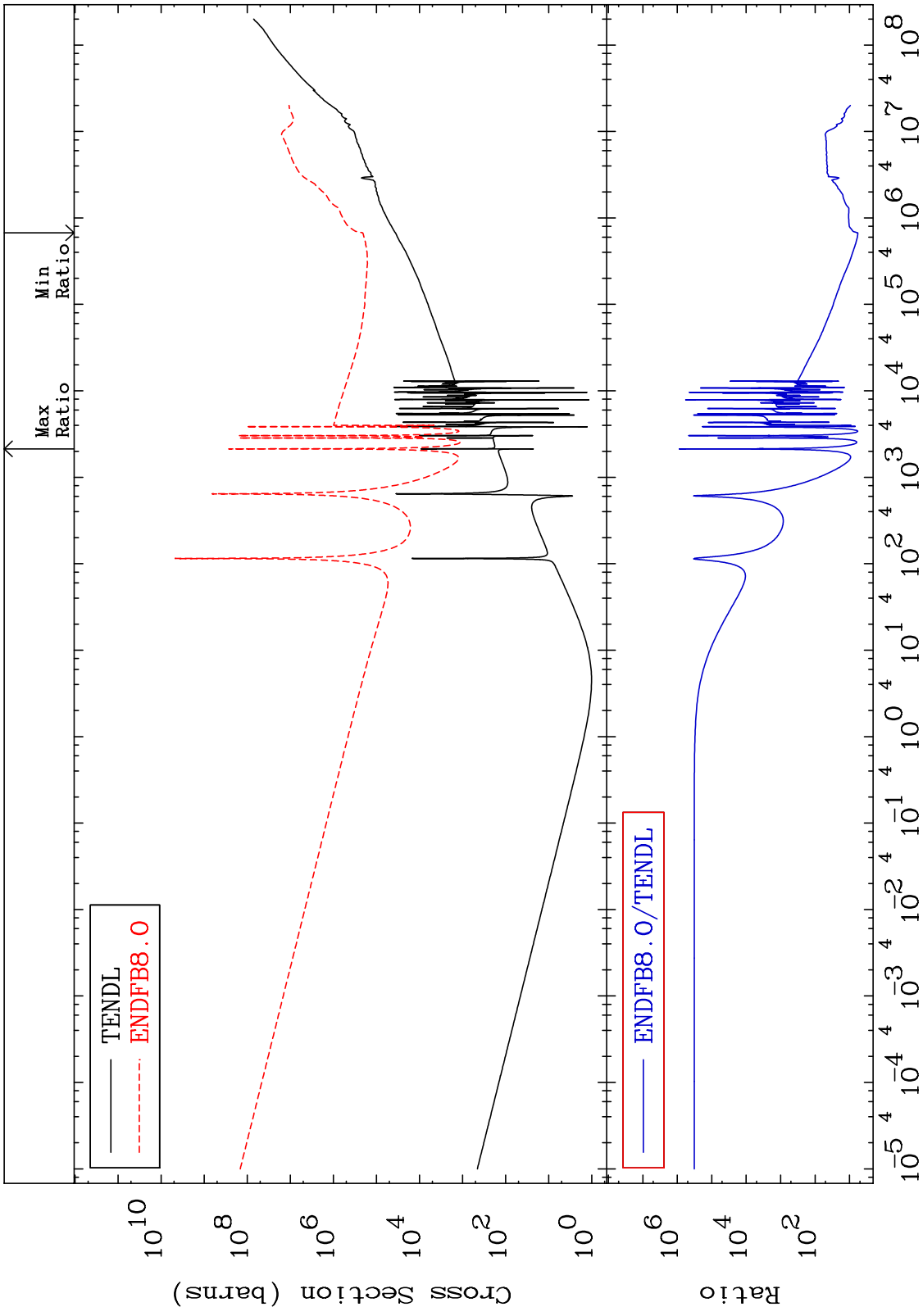


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Incident Energy (eV)

54-Xe-132

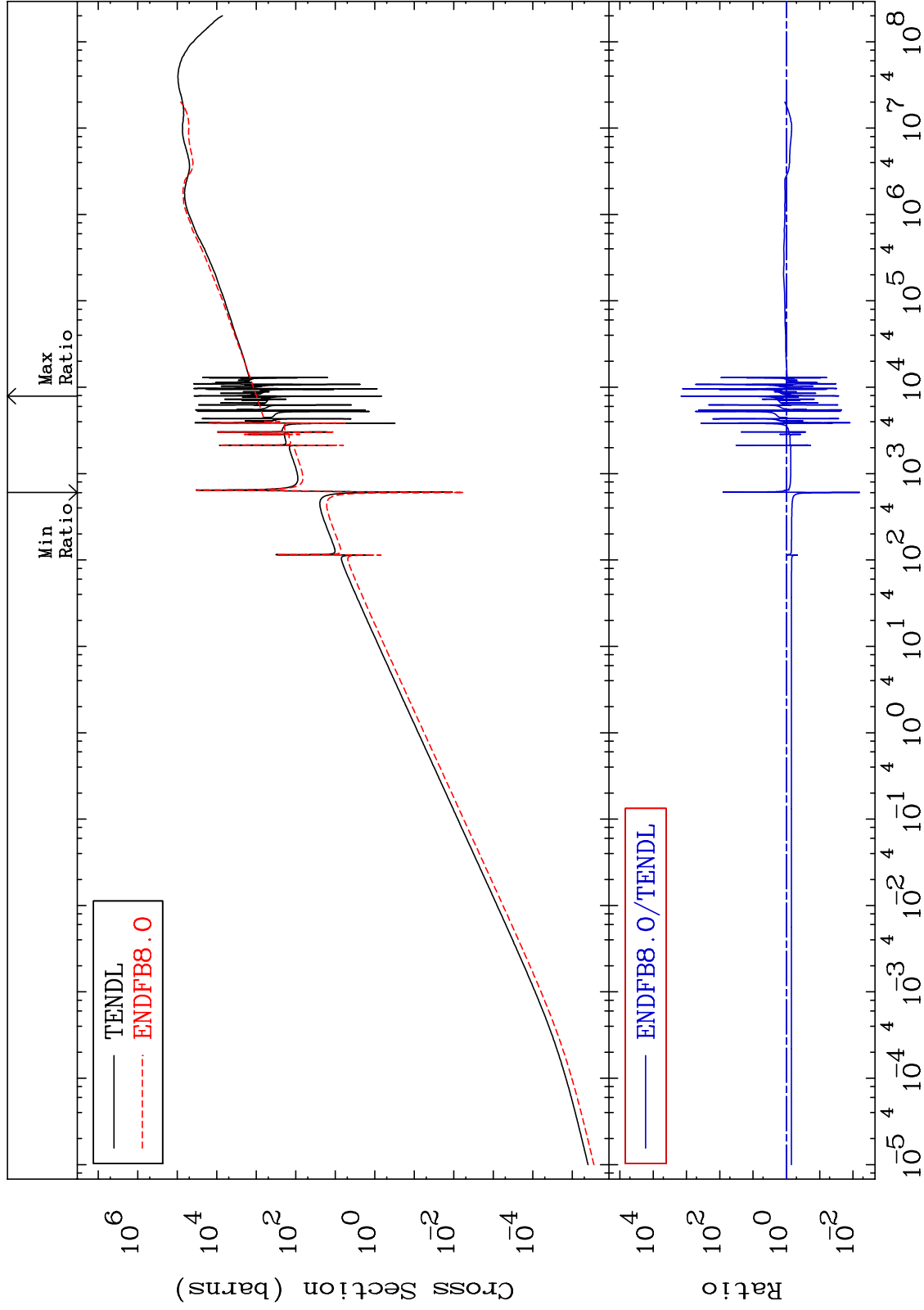
MAT 5449 Kerma total (eV-barns) 54-Xe-132
 Cross Section 474.7 To 9999. %



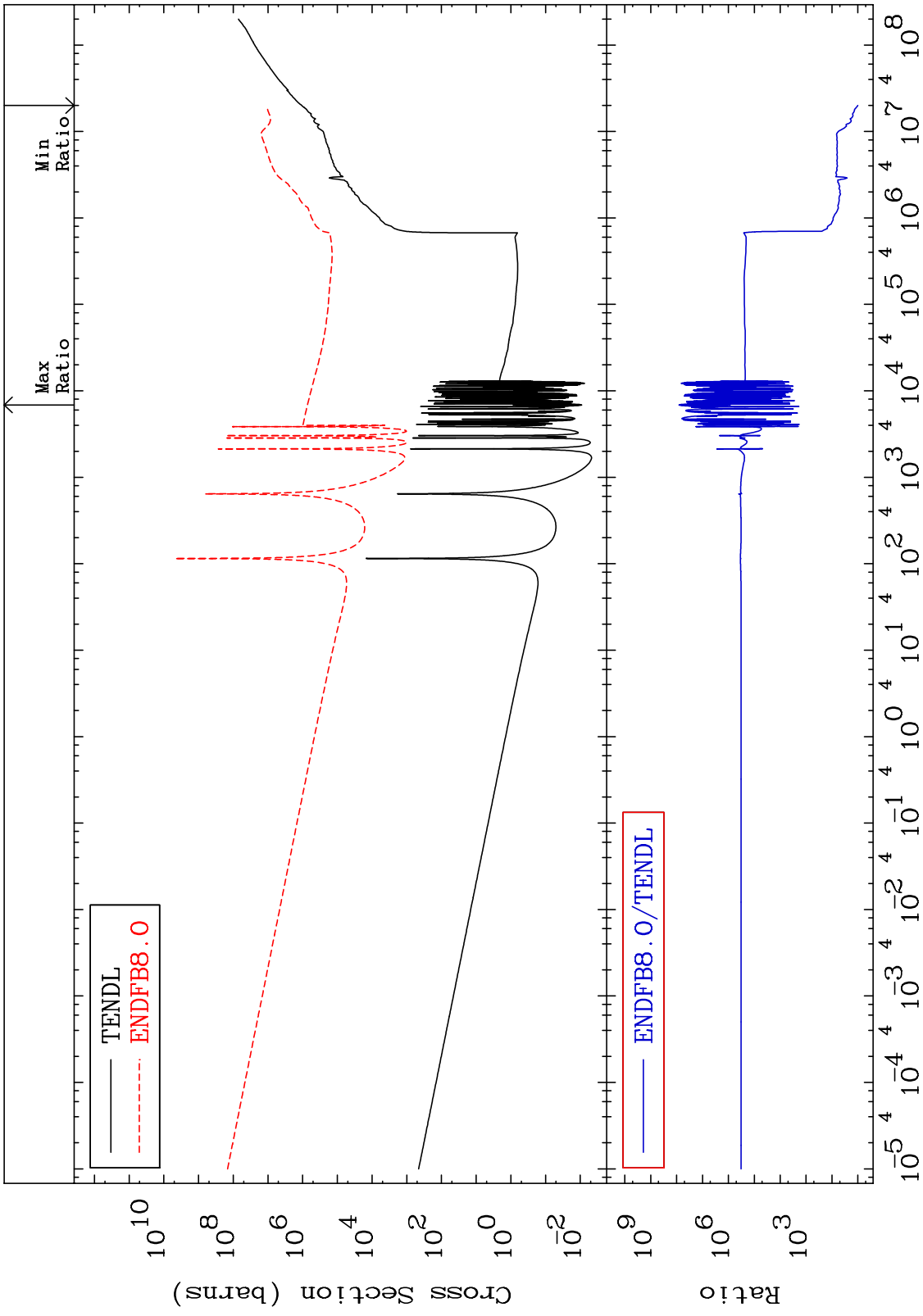
MAT 5449

Kerma elastic
Cross Section

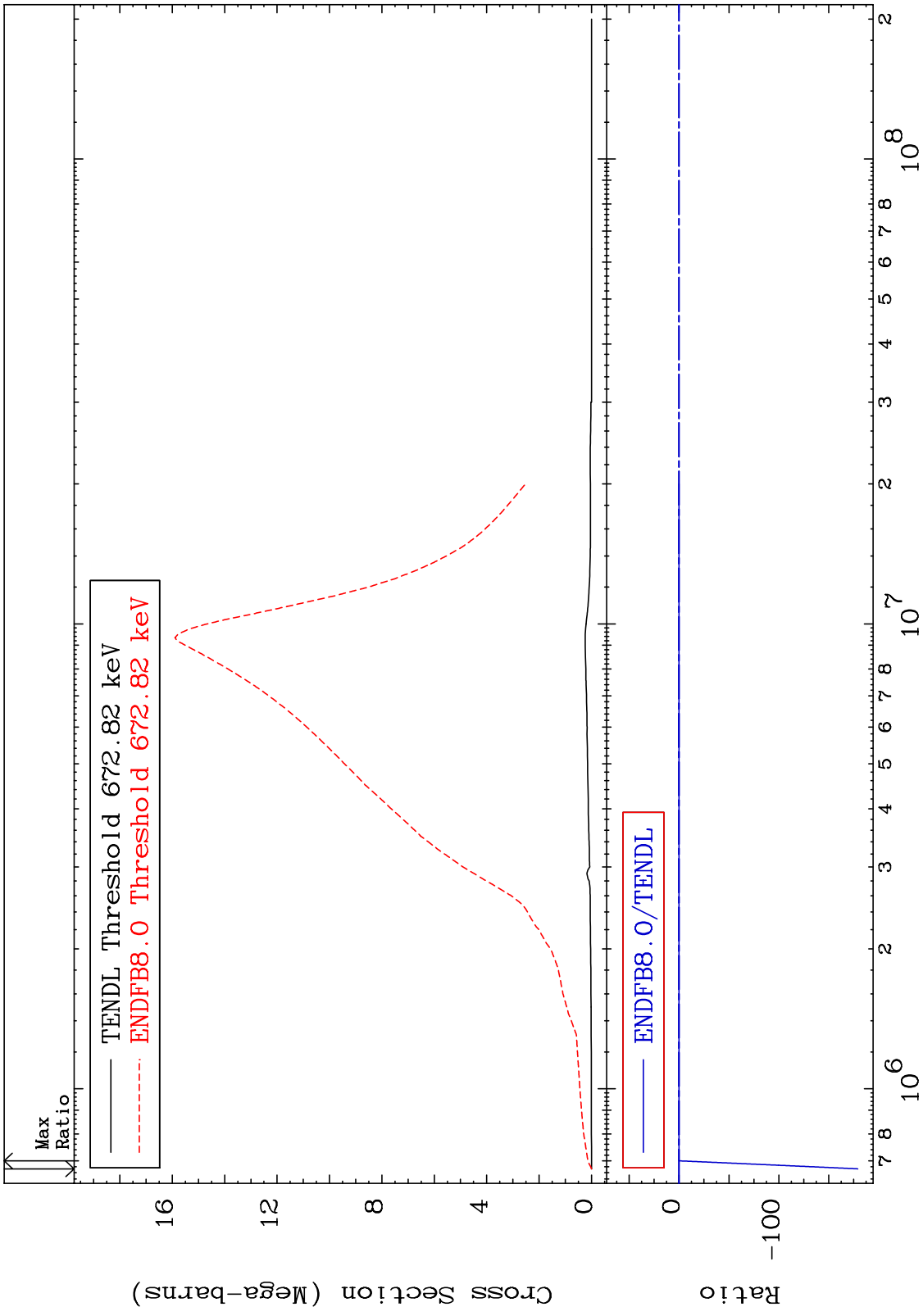
54-Xe-132
-99.37 To 9999. %



MAT 5449 Kerma non-elastic (all but mt2) 54-Xe-132
 Cross Section 902.6 To 9999. %



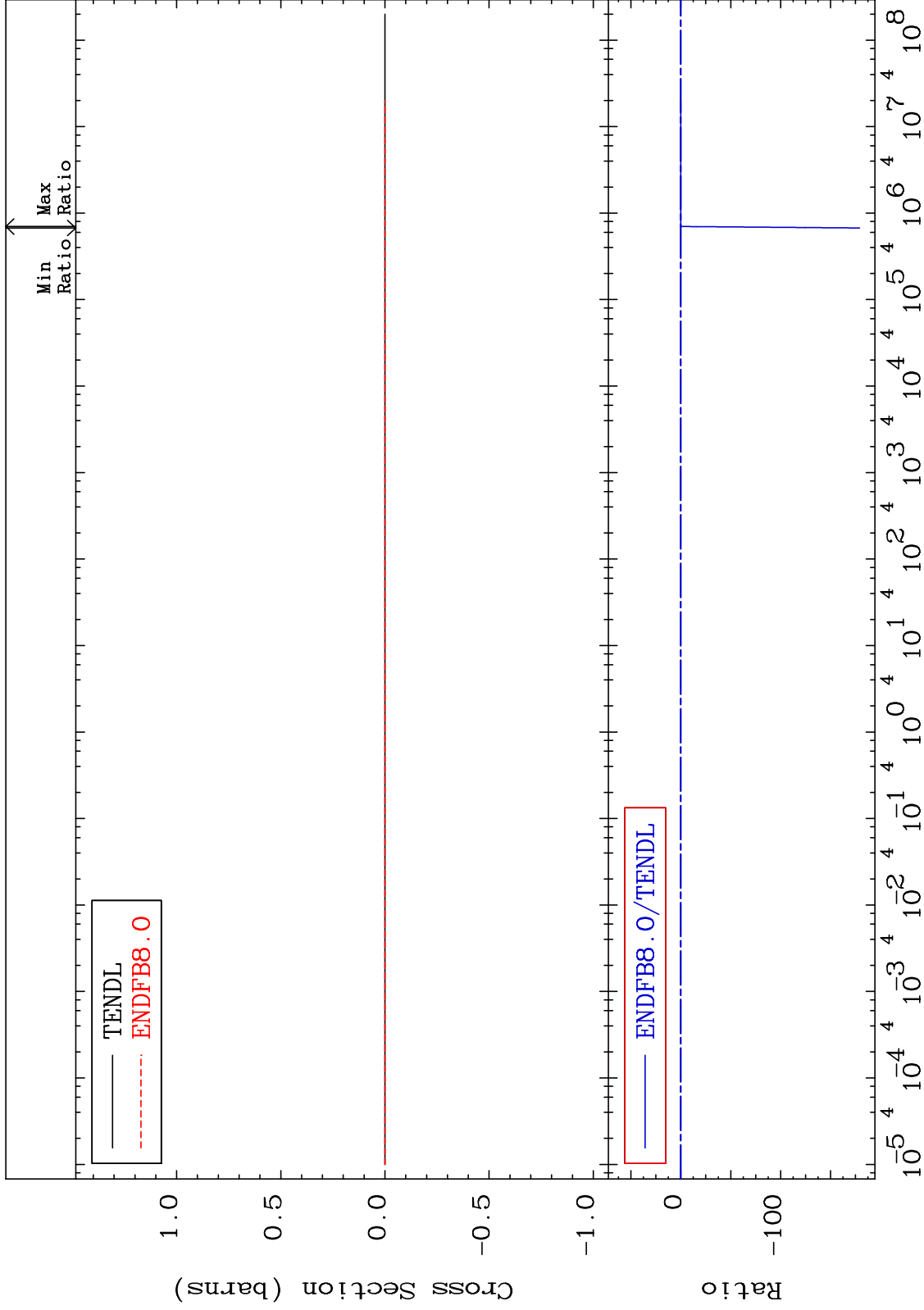
MAT 5449 Kerma inelastic (mt51-91) 54-Xe-132
Cross Section -9999. To 9999. %



MAT 5449

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

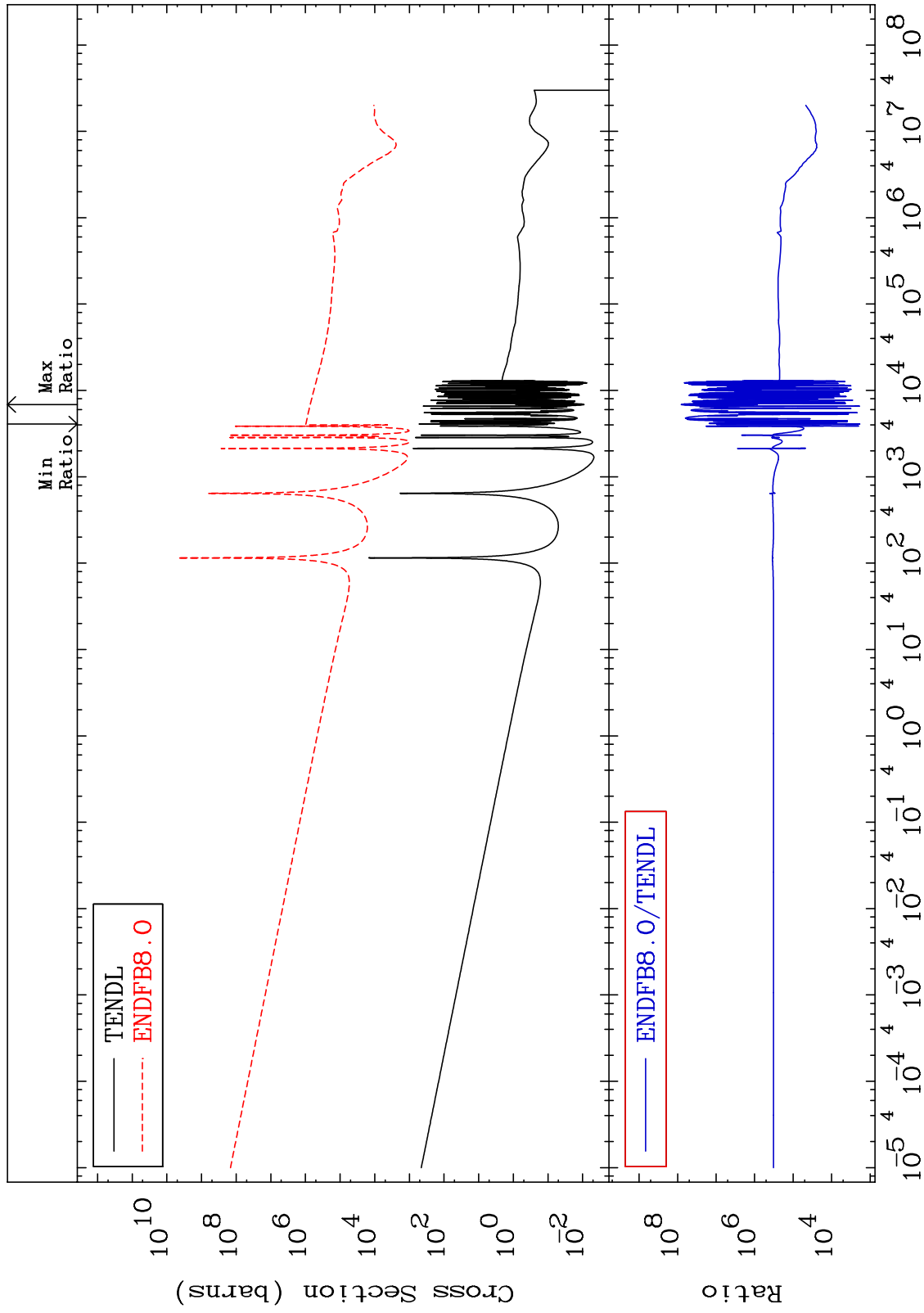
54-Xe-132
-9999. To 9999. %



MAT 5449

Kerma capture (mt102)
Cross Section

54-Xe-132
9999. To 9999. %

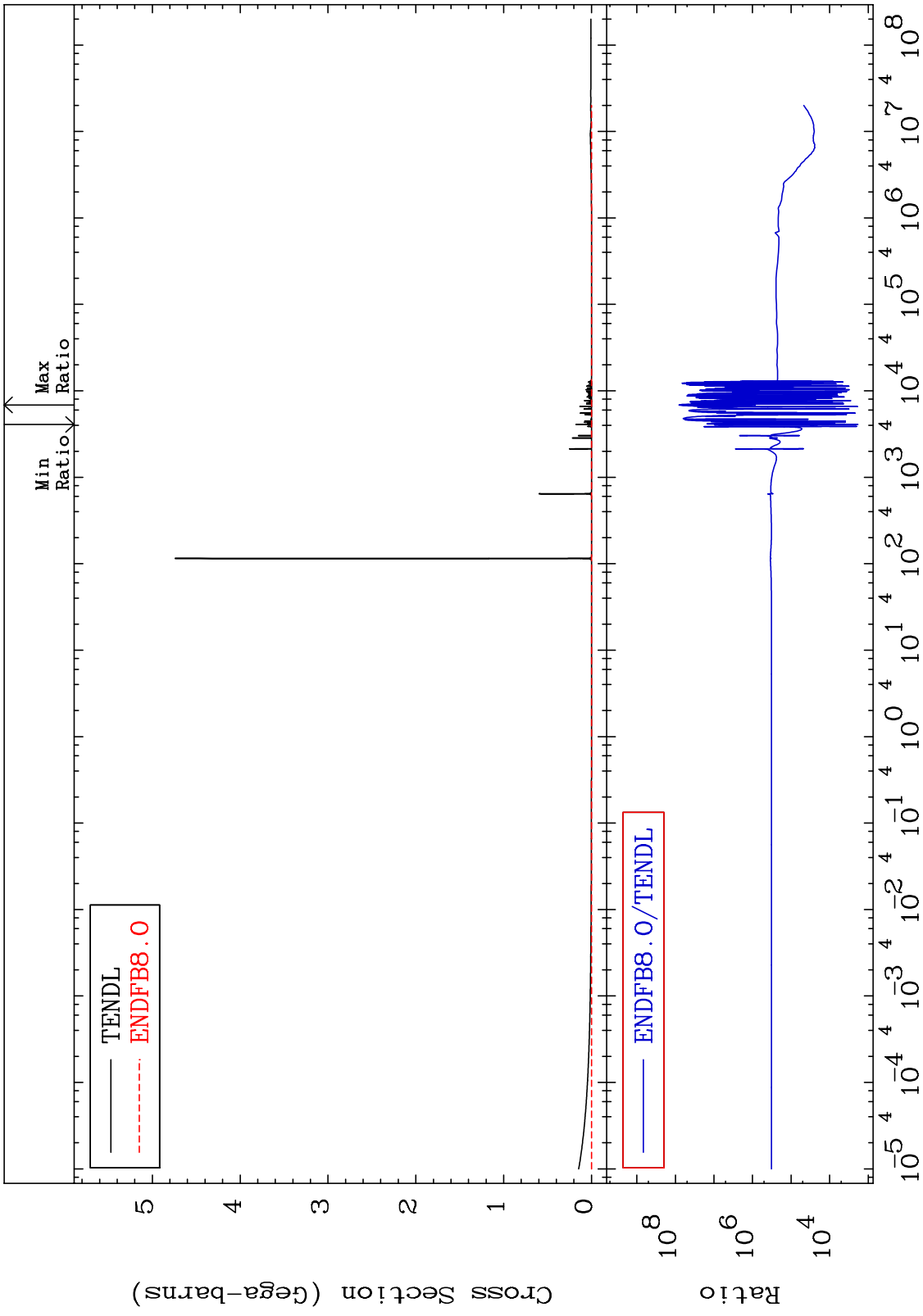


40

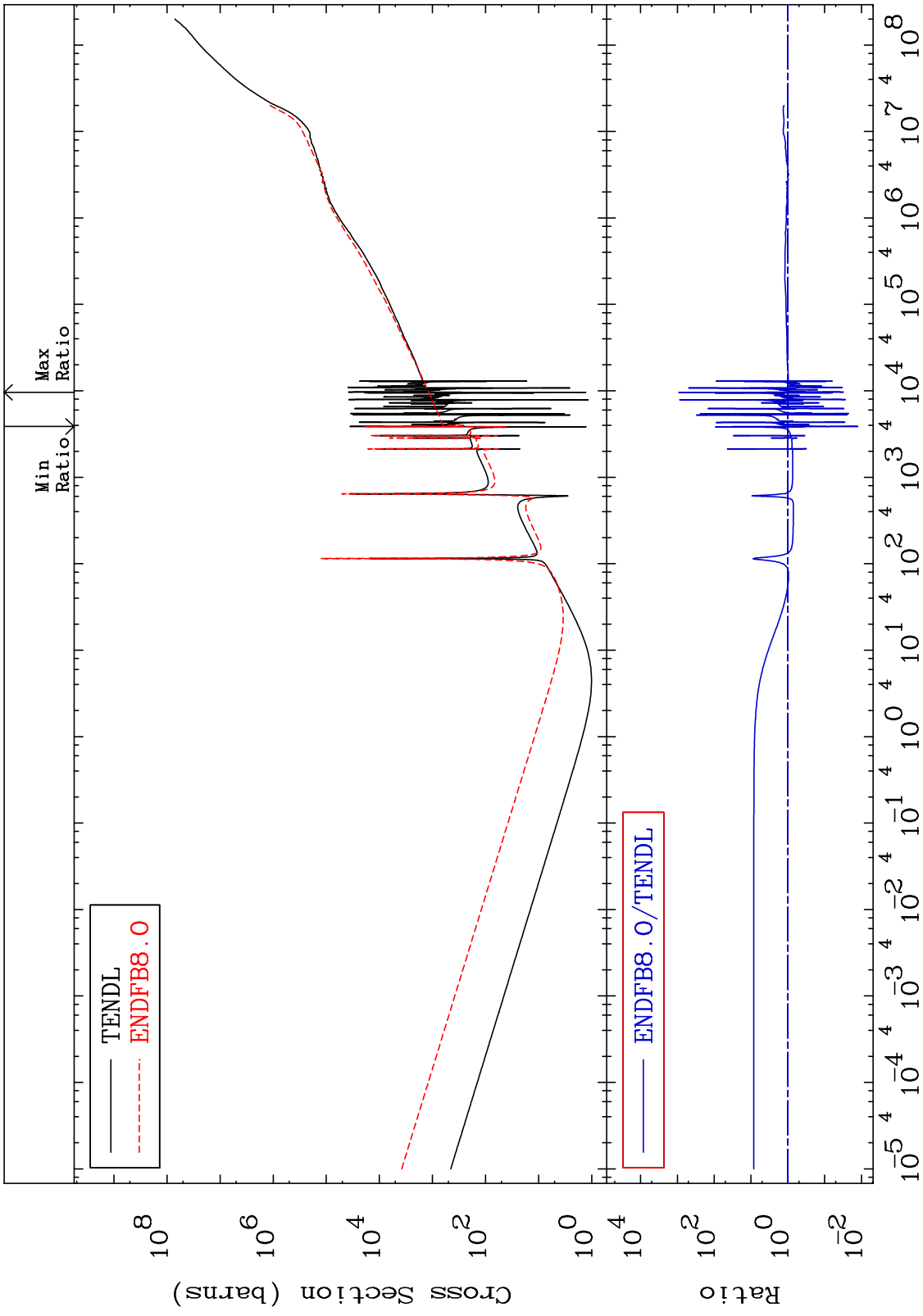
Incident Energy (eV)

54-Xe-132

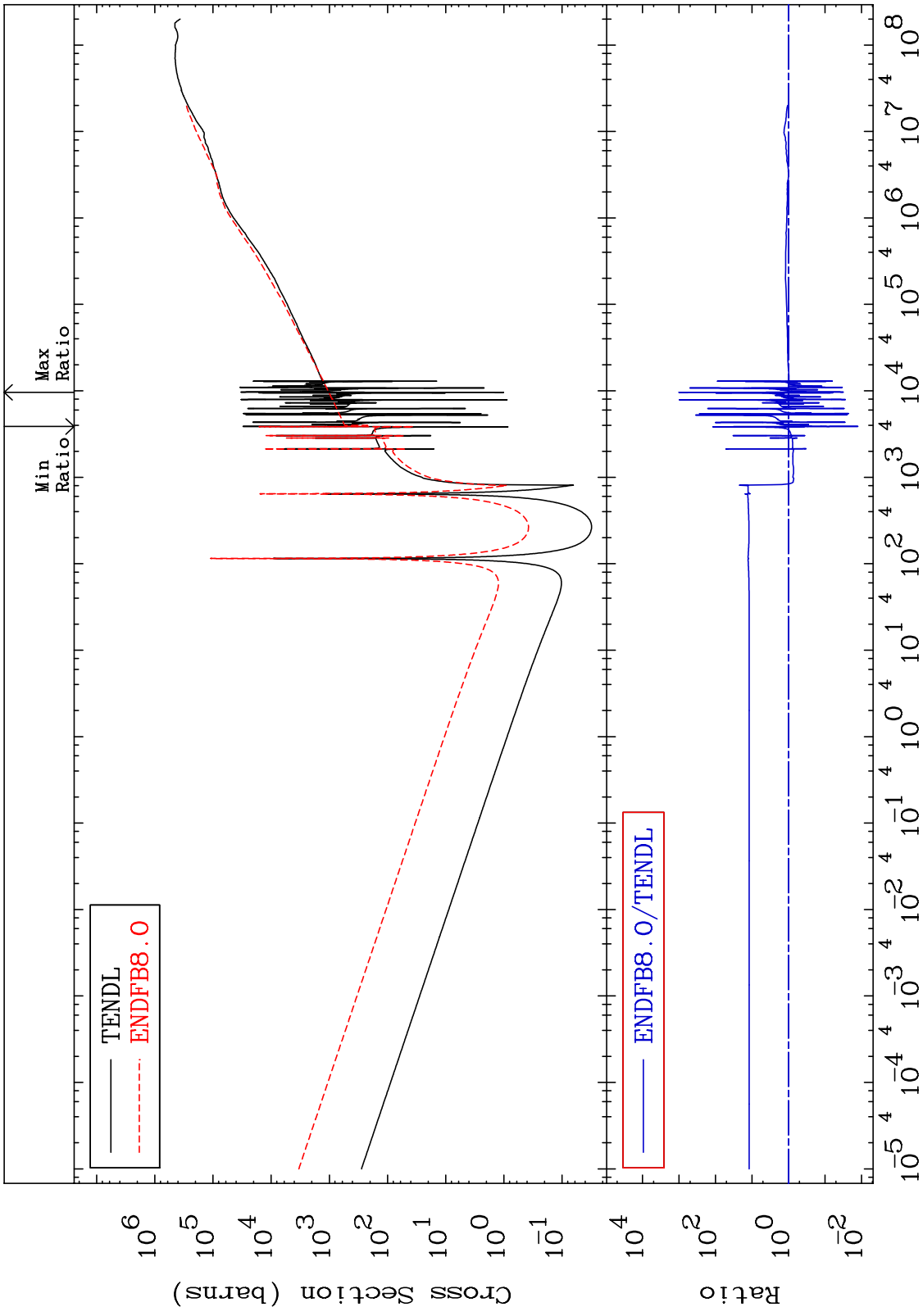
MAT 5449 Total photon (eV-barns) 54-Xe-132
Cross Section 9999. To 9999. %



MAT 5449 Total kinematic kerma (high limit) 54-Xe-132
 Cross Section -98.74 To 9999. %



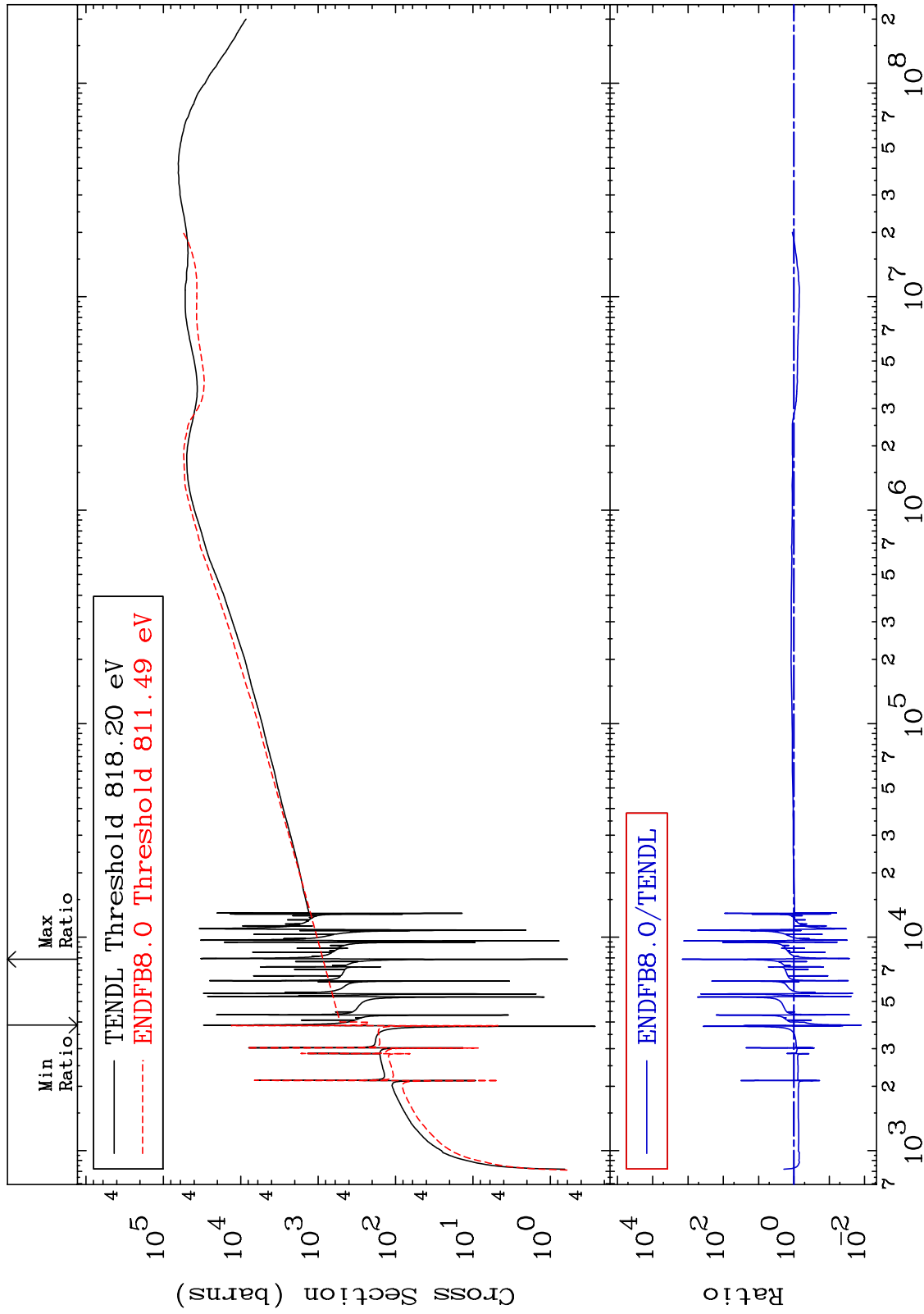
MAT 5449 Dpa total (eV-barns) 54-Xe-132
 Cross Section -98.75 To 9999. %



MAT 5449

Dpa elastic (mt2)
Cross Section

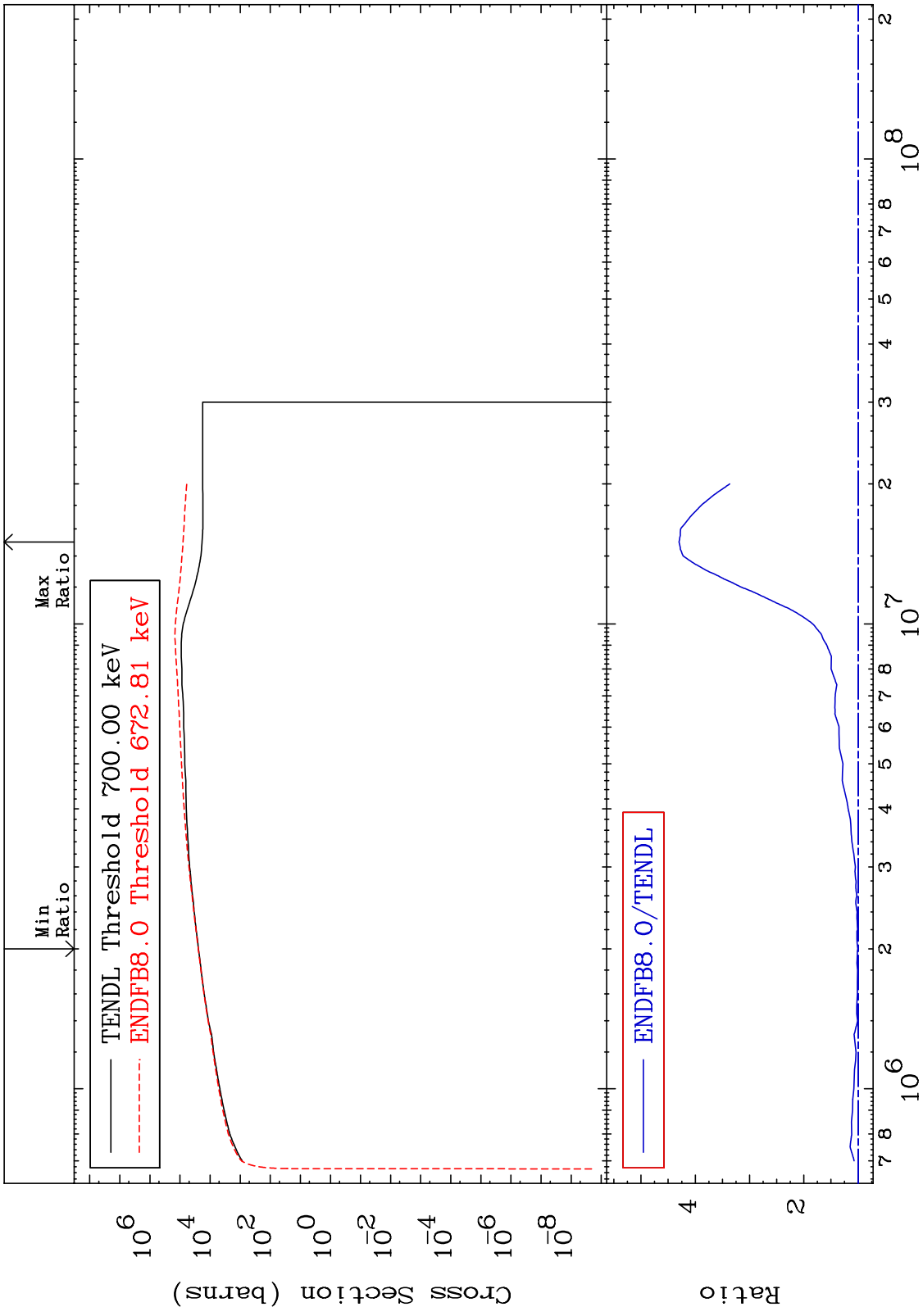
54-Xe-132
-98.77 To 9999. %



54-Xe-132

54-Xe-132

MAT 5449 Dpa inelastic (mt51-91) 54-Xe-132
Cross Section 0.530 To 329.9 %



MAT 5449

Dpa disappearance (mt102 -120)
Cross Section

54-Xe-132
-91.71 To 9999. %

