

Program Complot
(Version 2018-1)

by

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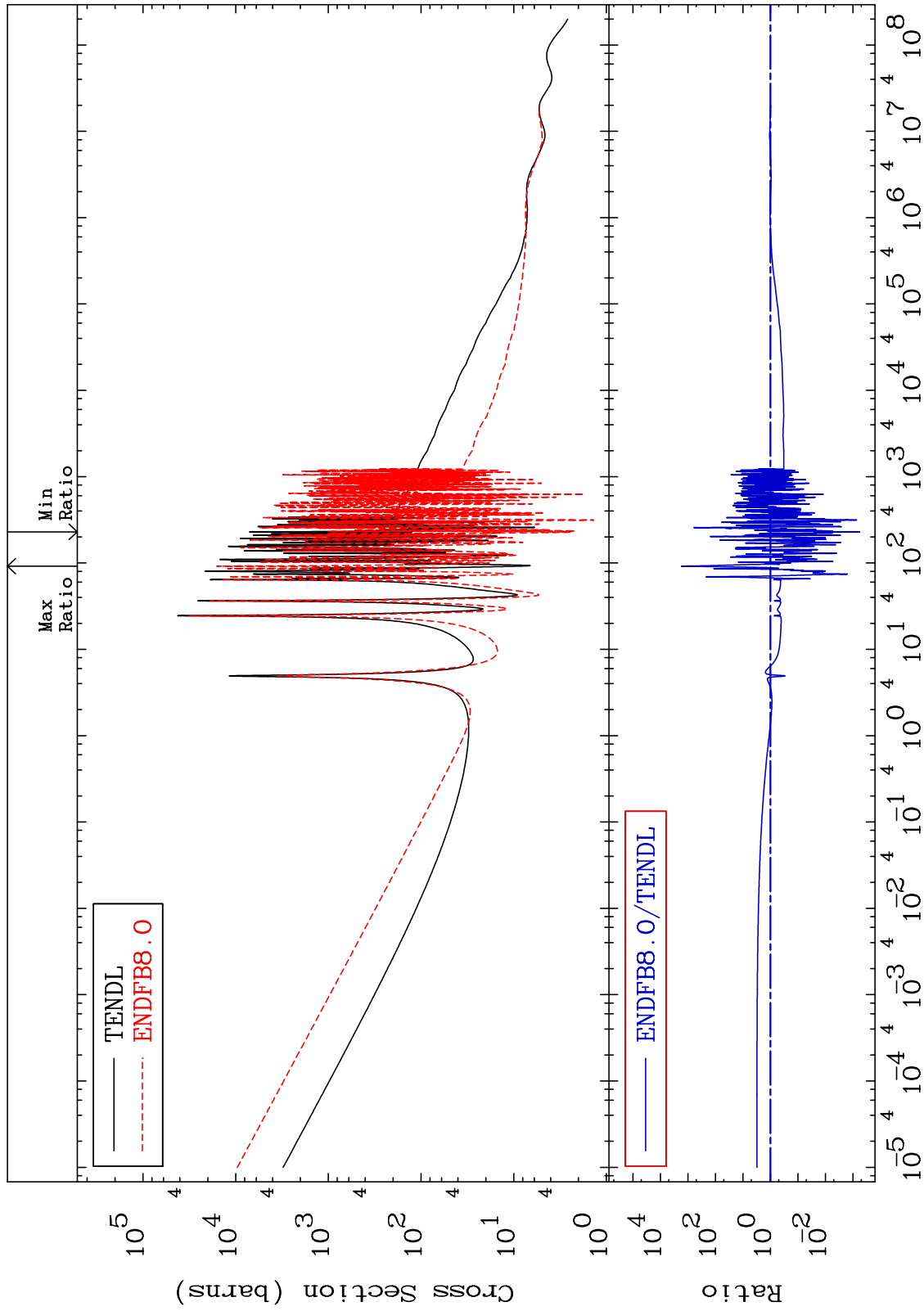
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6931

Total
Cross Section

69-Tm-171
-99.94 To 9999. %



1

Incident Energy (eV)

69-Tm-171

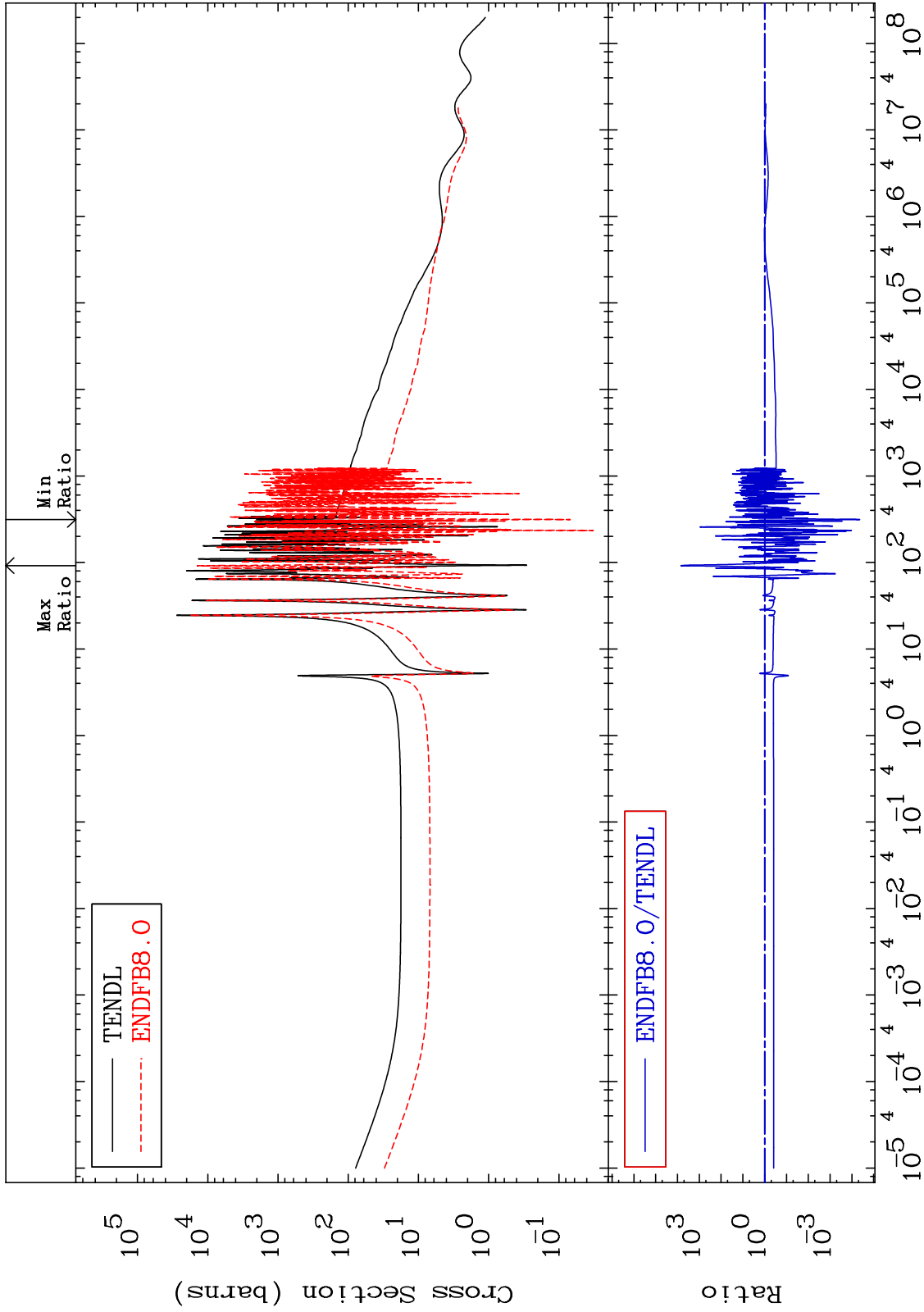
MAT 6931

Elastic

69-Tm-171

Cross Section

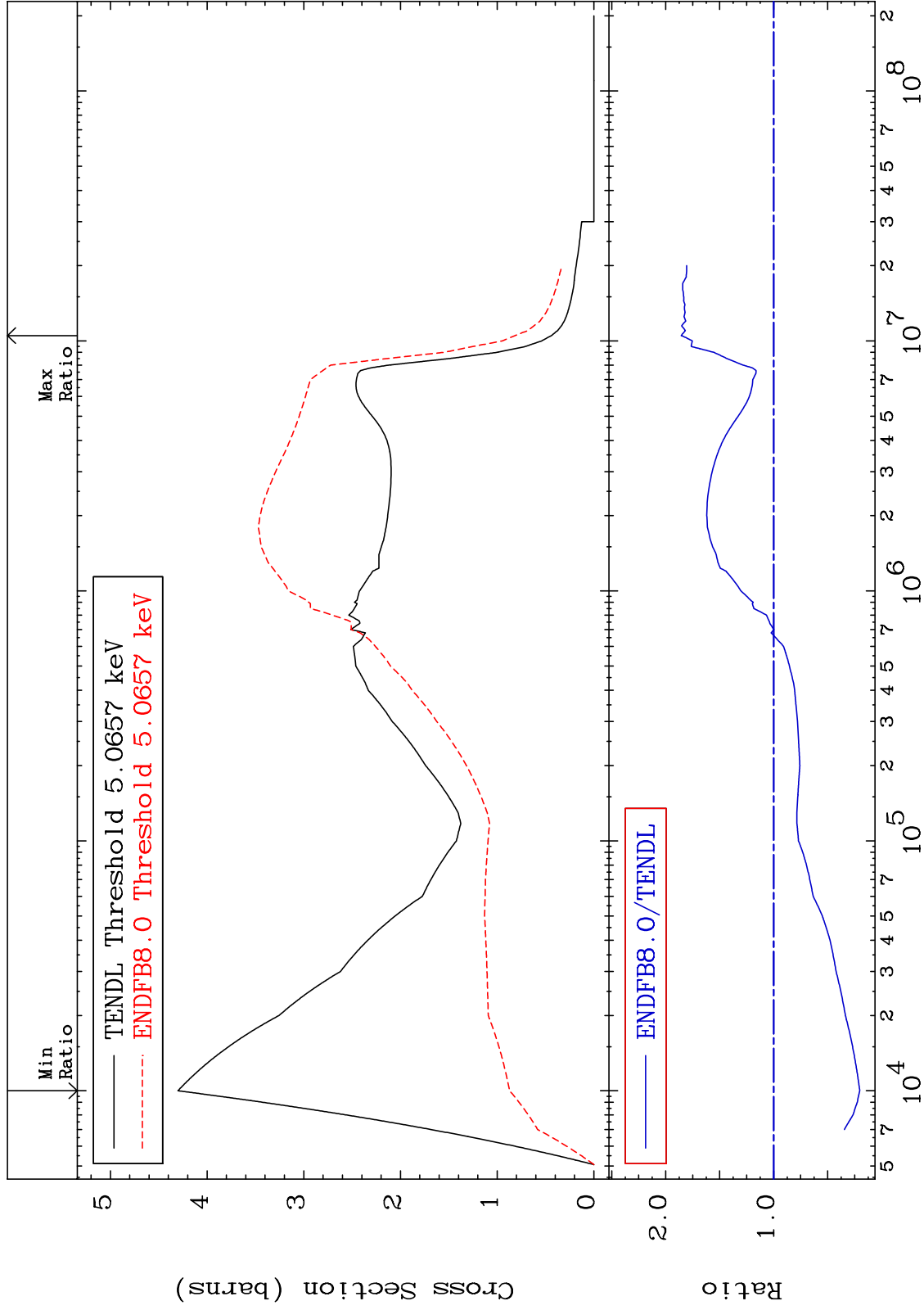
-100.0 To 9999. %



MAT 6931

Inelastic
Cross Section

69-Tm-171
-79.75 To 85.61 %



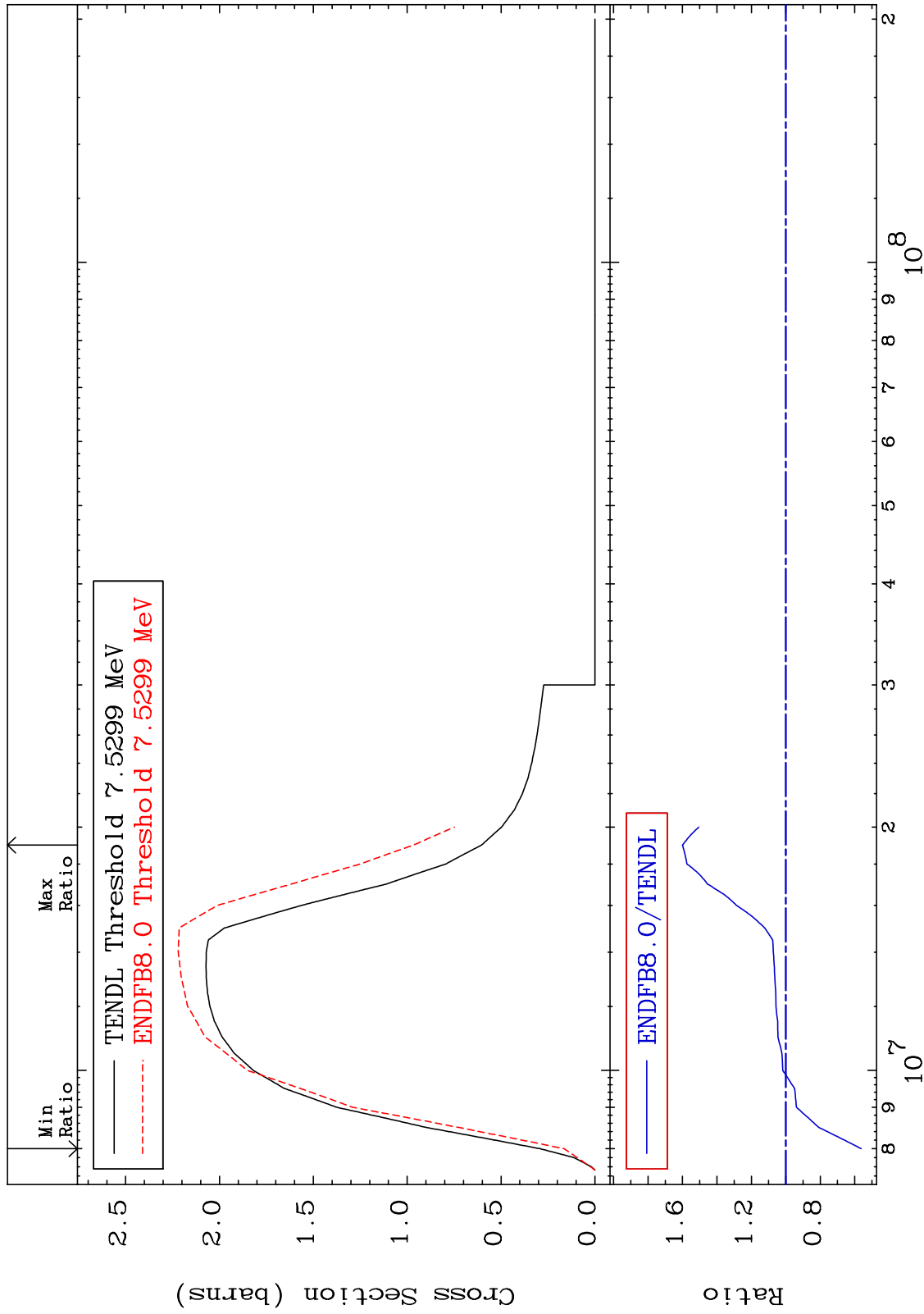
MAT 6931

(n,2n)

69-Tm-171

Cross Section

-43.82 To 60.02 %

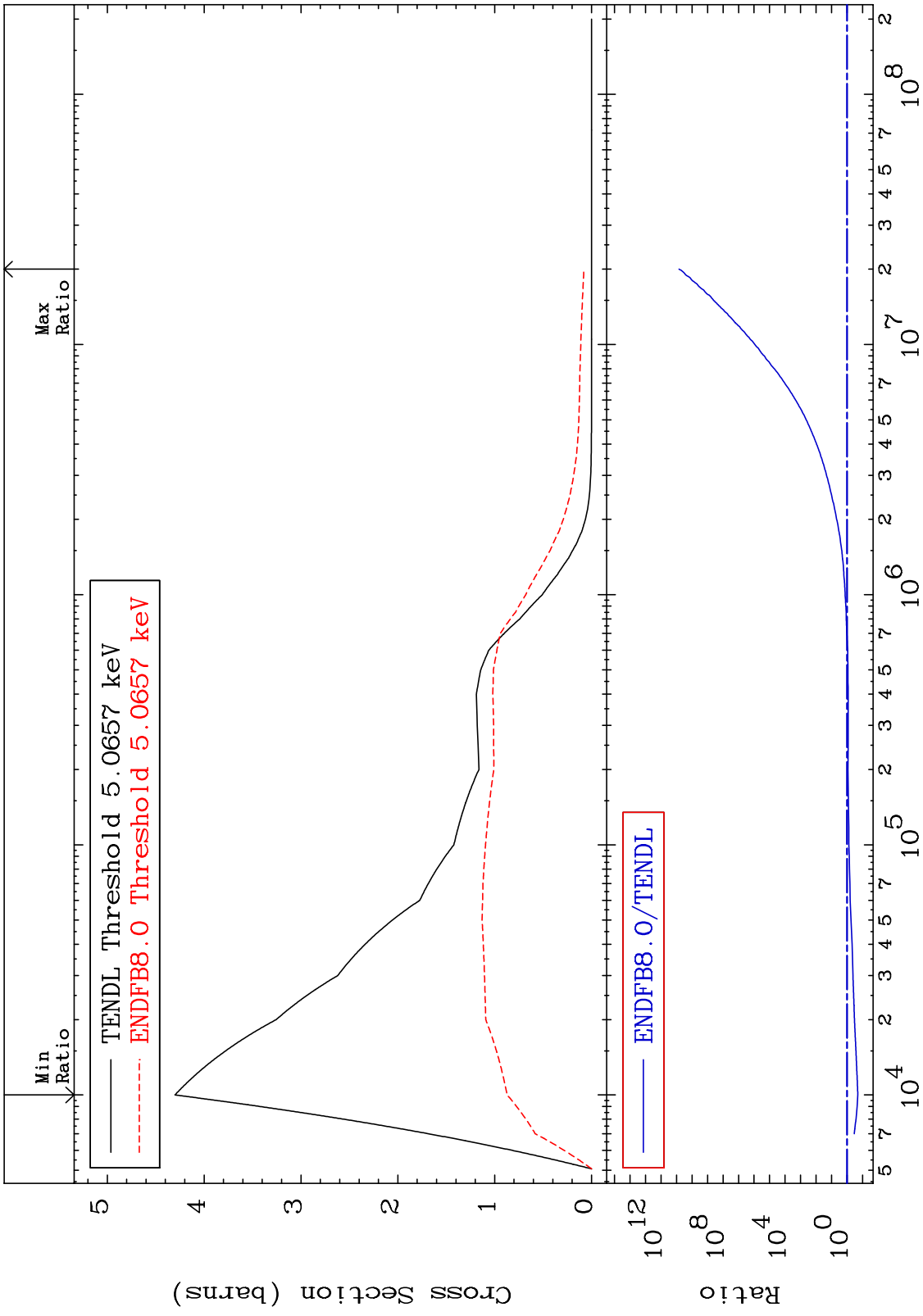


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Incident Energy (eV)

69-Tm-171

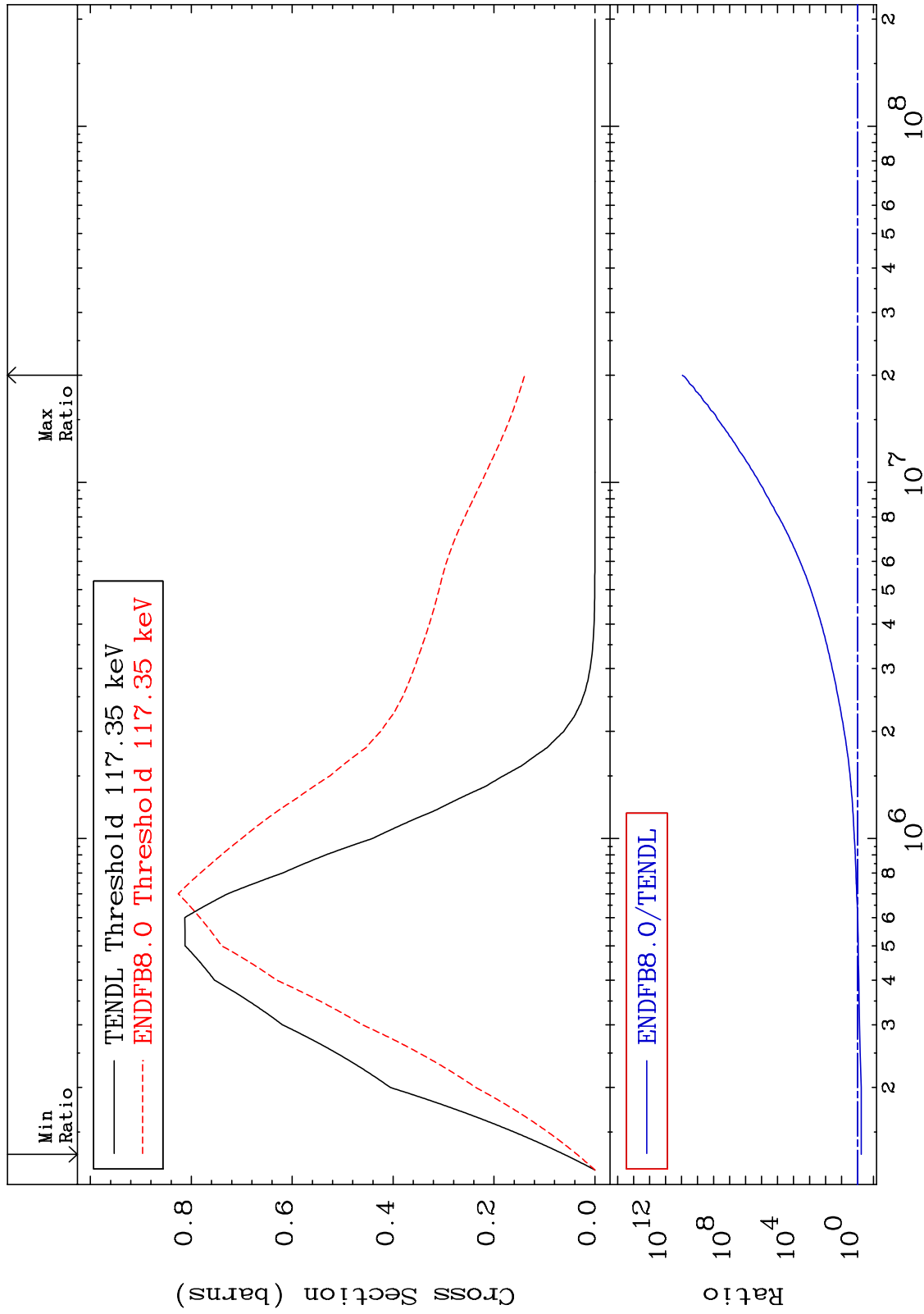
MAT 6931 MT= 51 (n,n') Level Cross Section 69-Tm-171
 -79.75 To 9999. %



MAT 6931

MT= 52 (n,n') Level
Cross Section

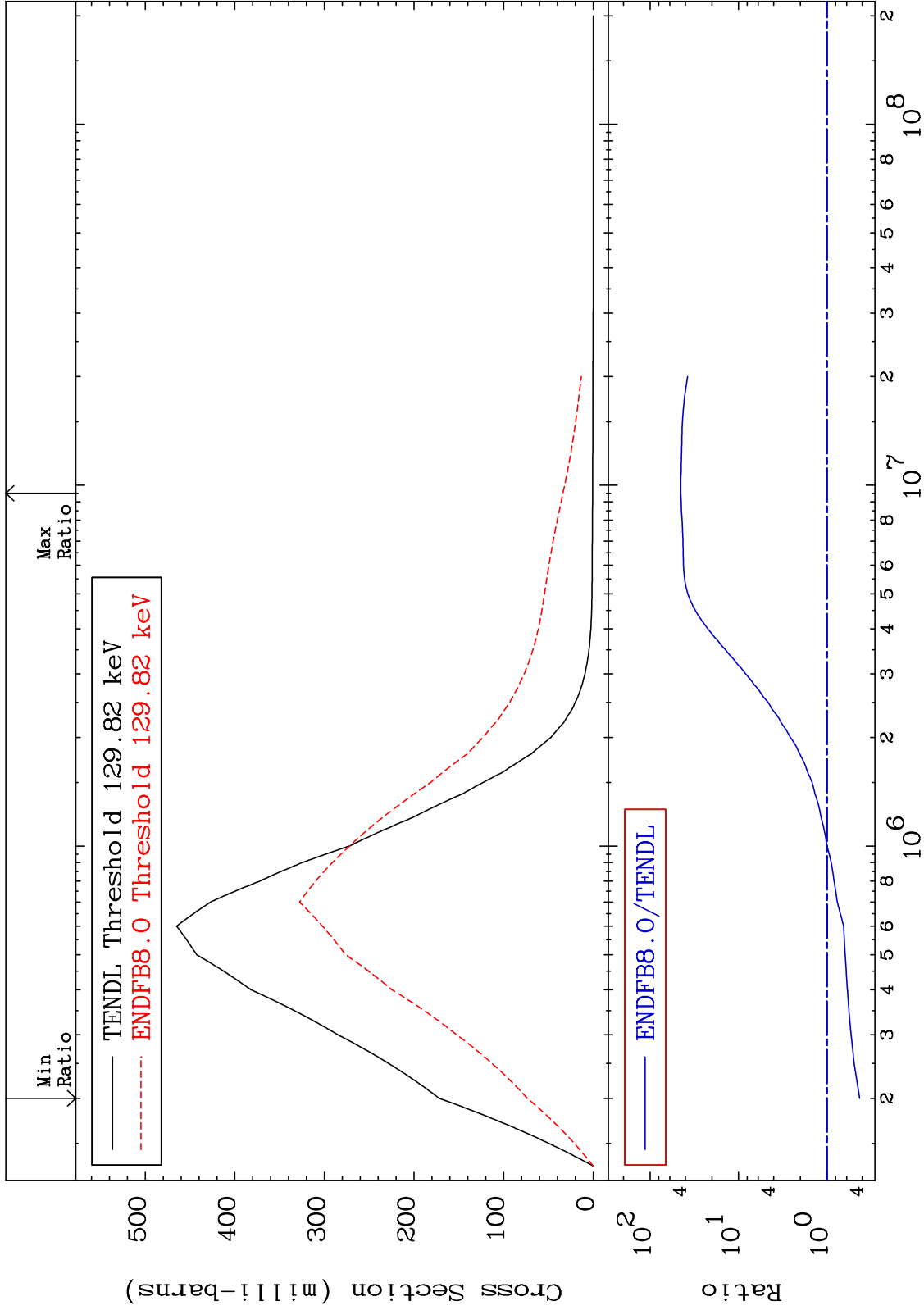
69-Tm-171
-41.79 To 9999. %



MAT 6931

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

69-Tm-171
-57.21 To 4394. %



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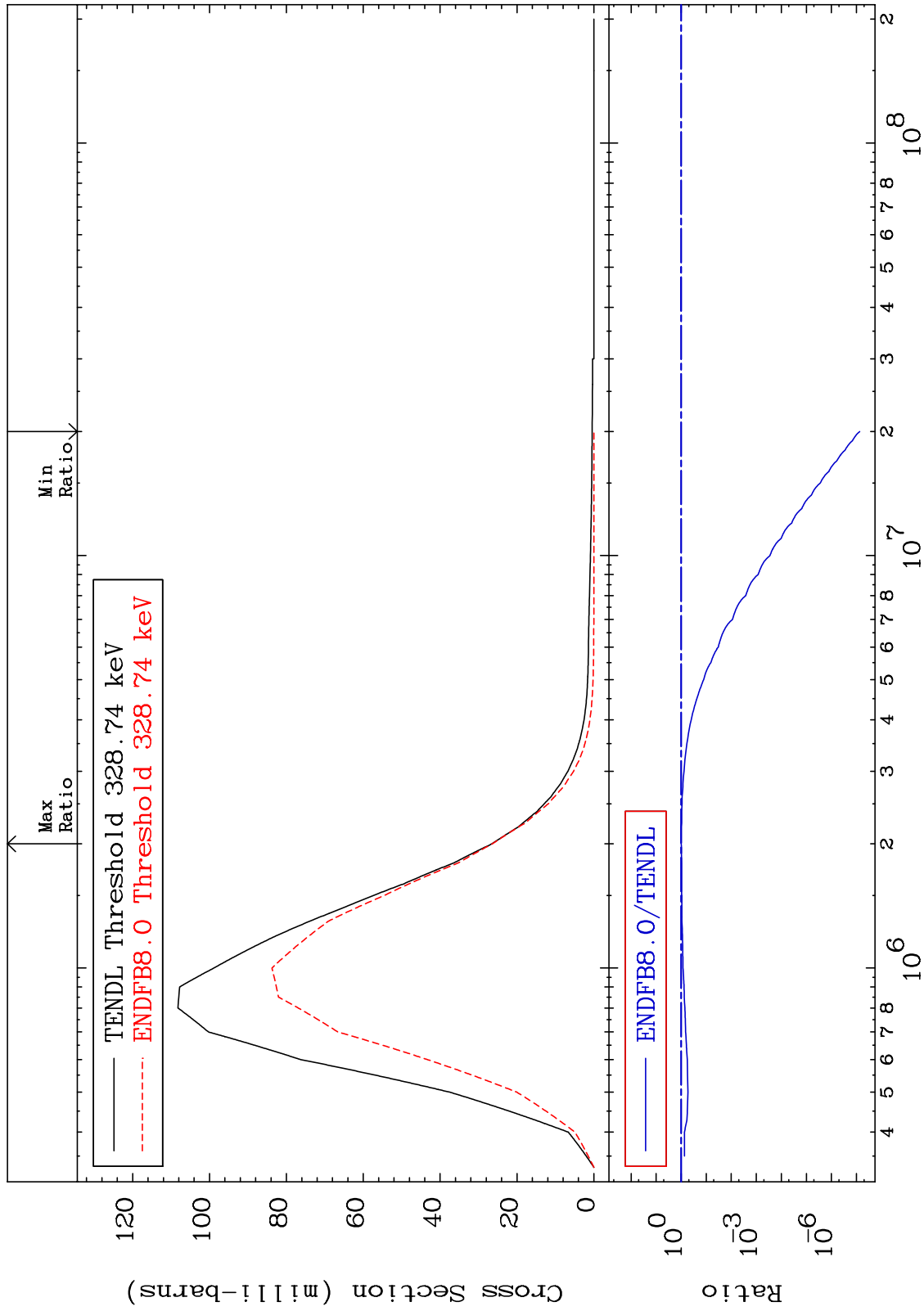
Incident Energy (eV)

69-Tm-171

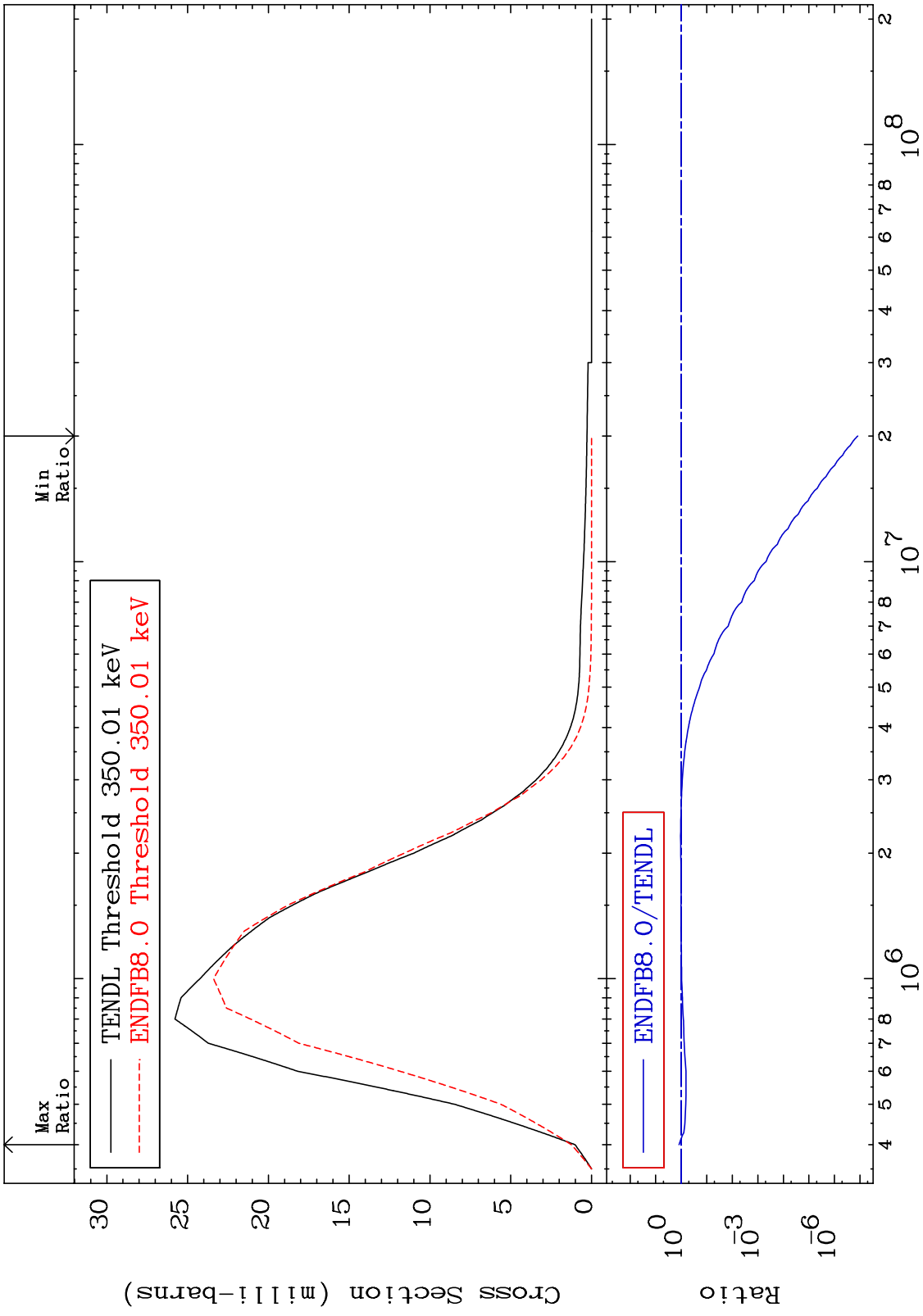
MAT 6931

MT= 54 (n,n') Level
Cross Section

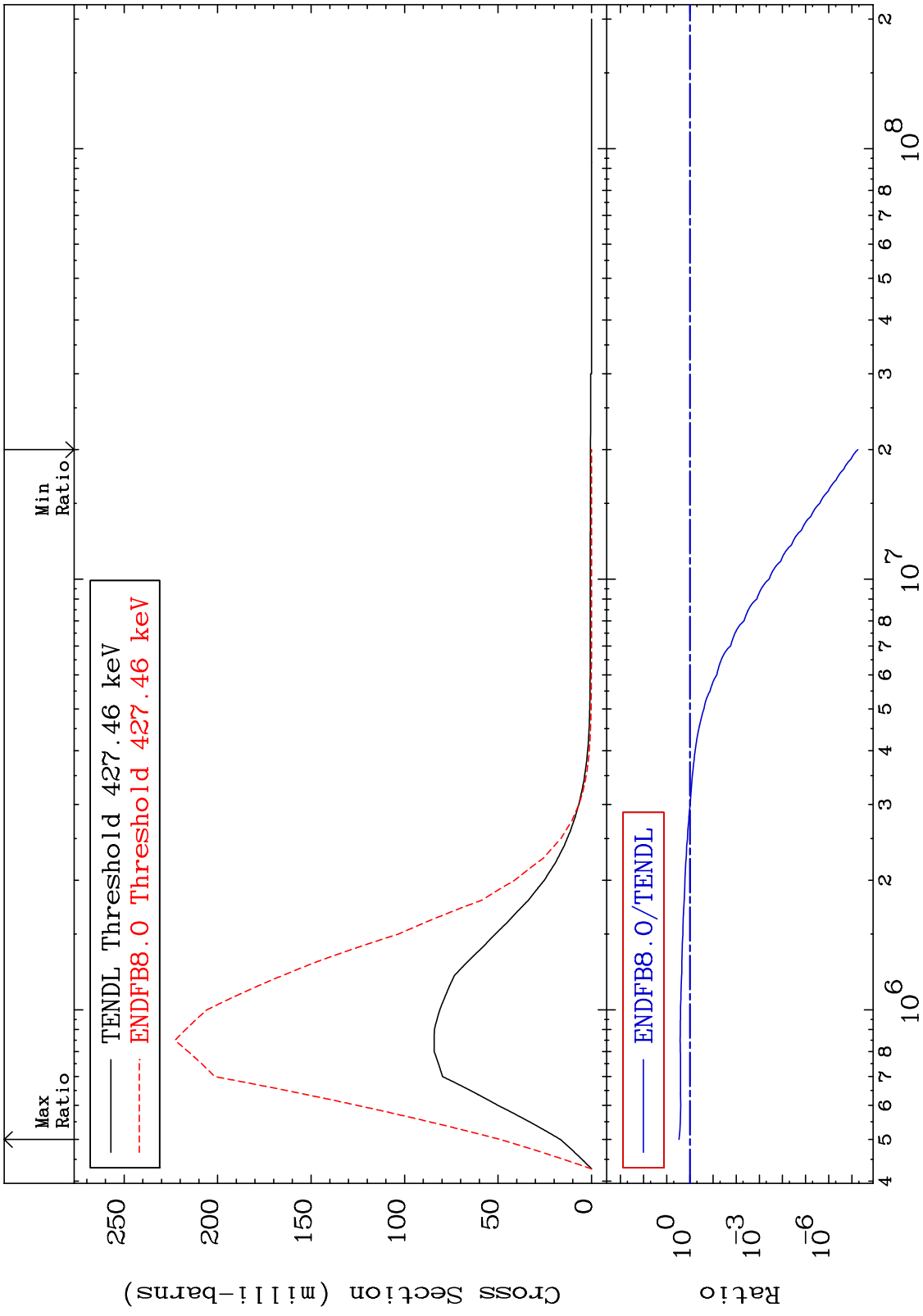
69-Tm-171
-100.0 To -0.430%



MAT 6931 MT= 55 (n,n') Level Cross Section 69-Tm-171
 -100.0 To 21.70 %

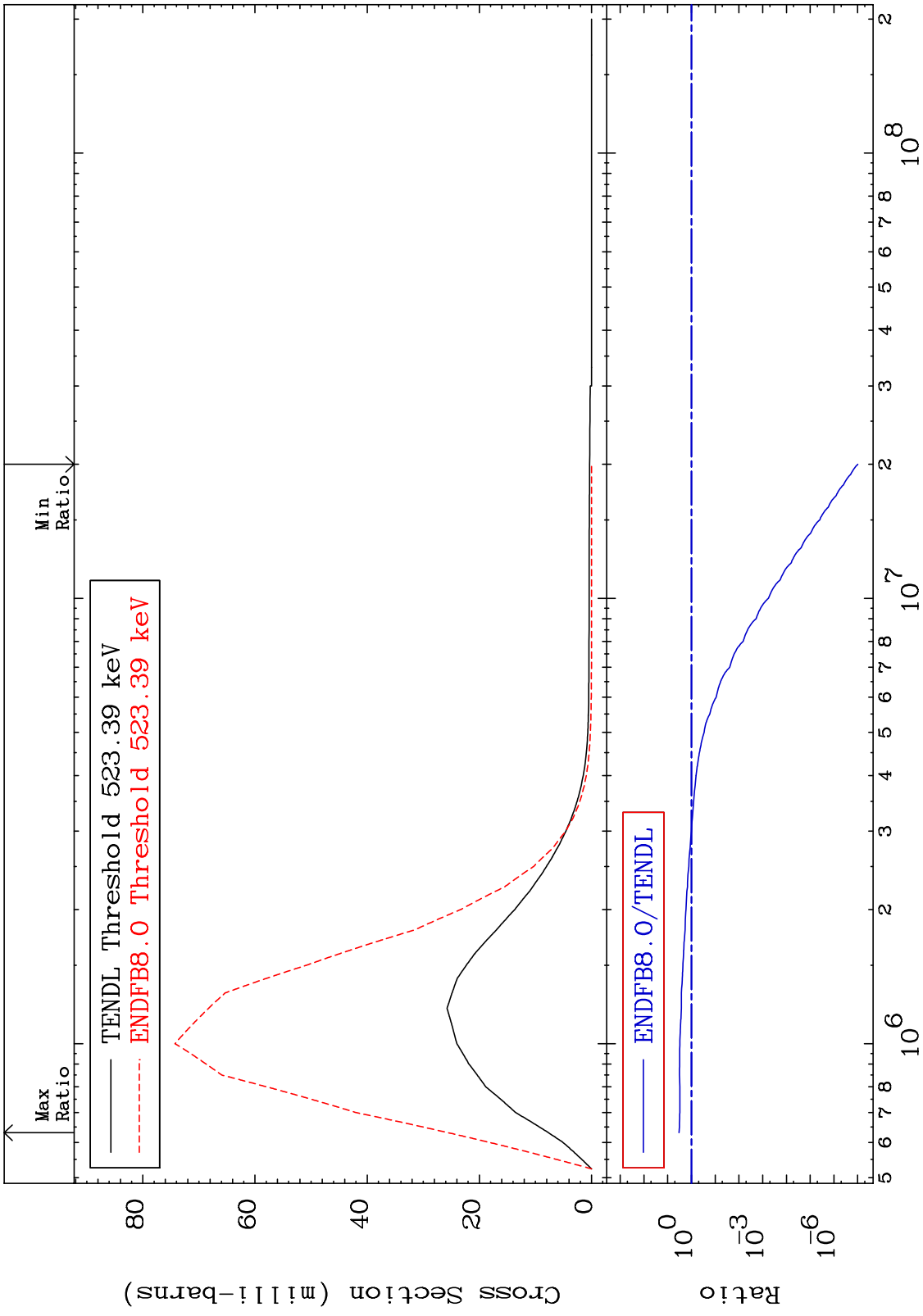


MAT 6931 MT= 56 (n,n') Level Cross Section 69-Tm-171 -100.0 To 193.0 %

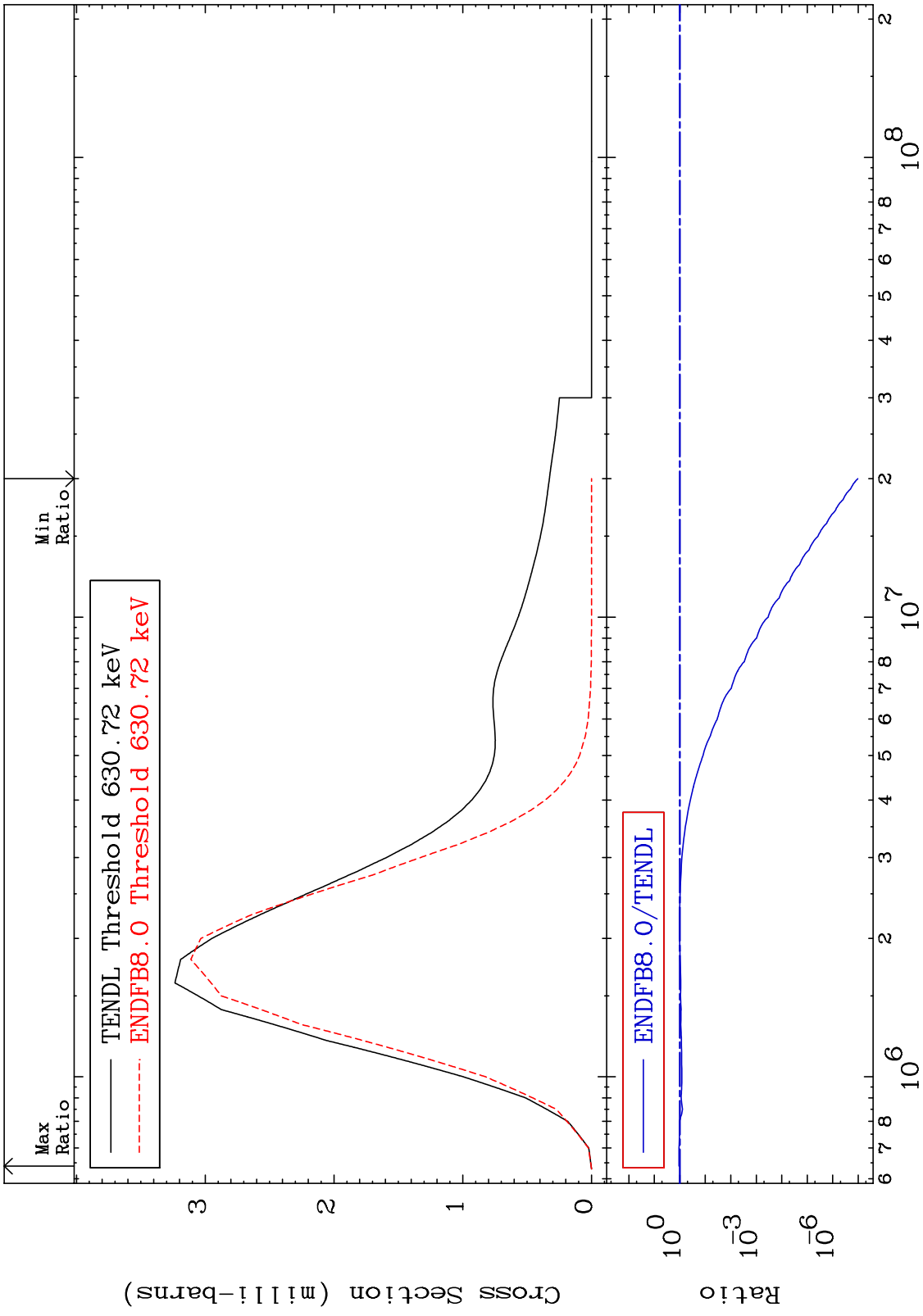


10 Incident Energy (eV) 69-Tm-171

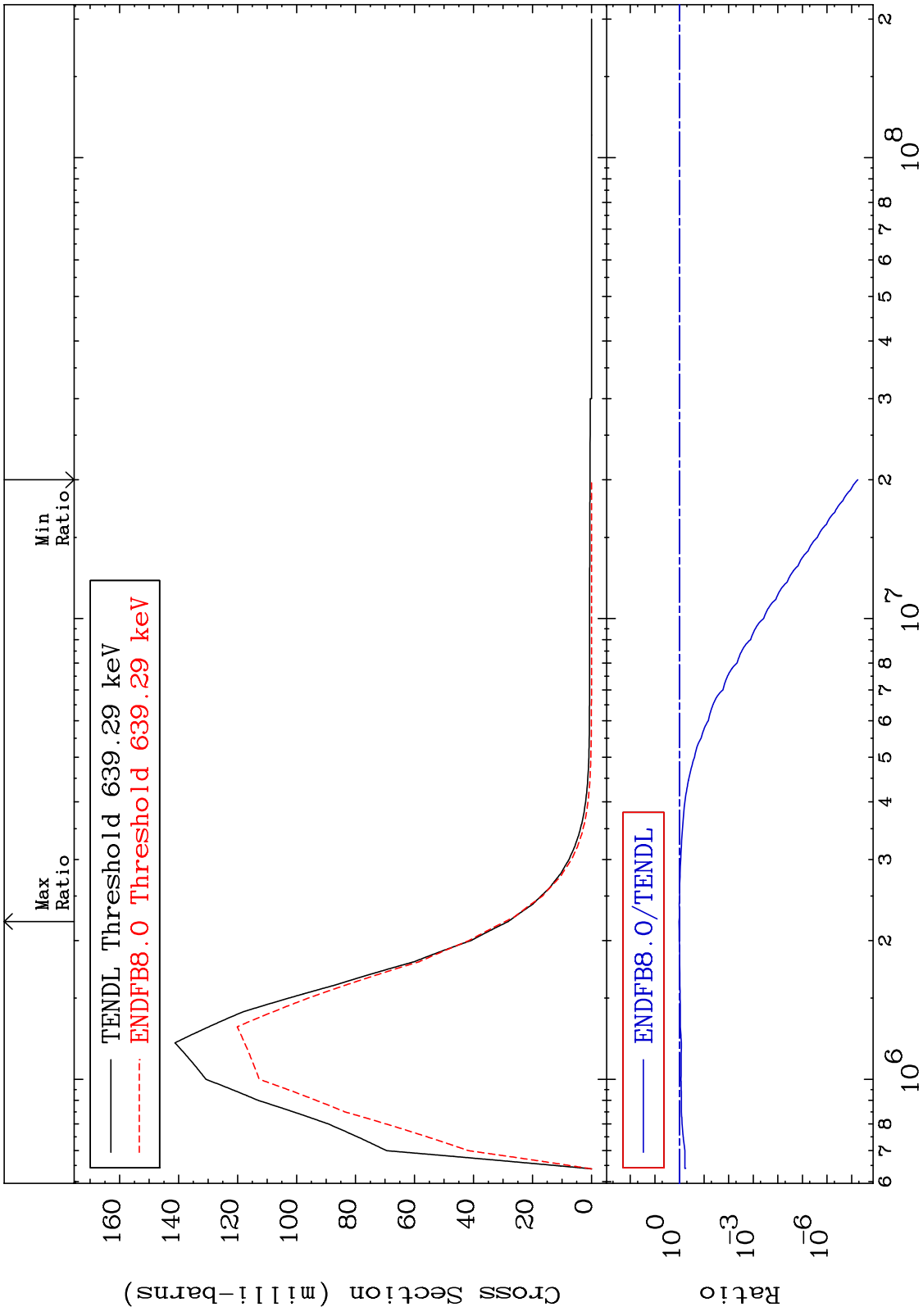
MAT 6931 MT= 57 (n,n') Level Cross Section 69-Tm-171
 -100.0 To 232.3 %



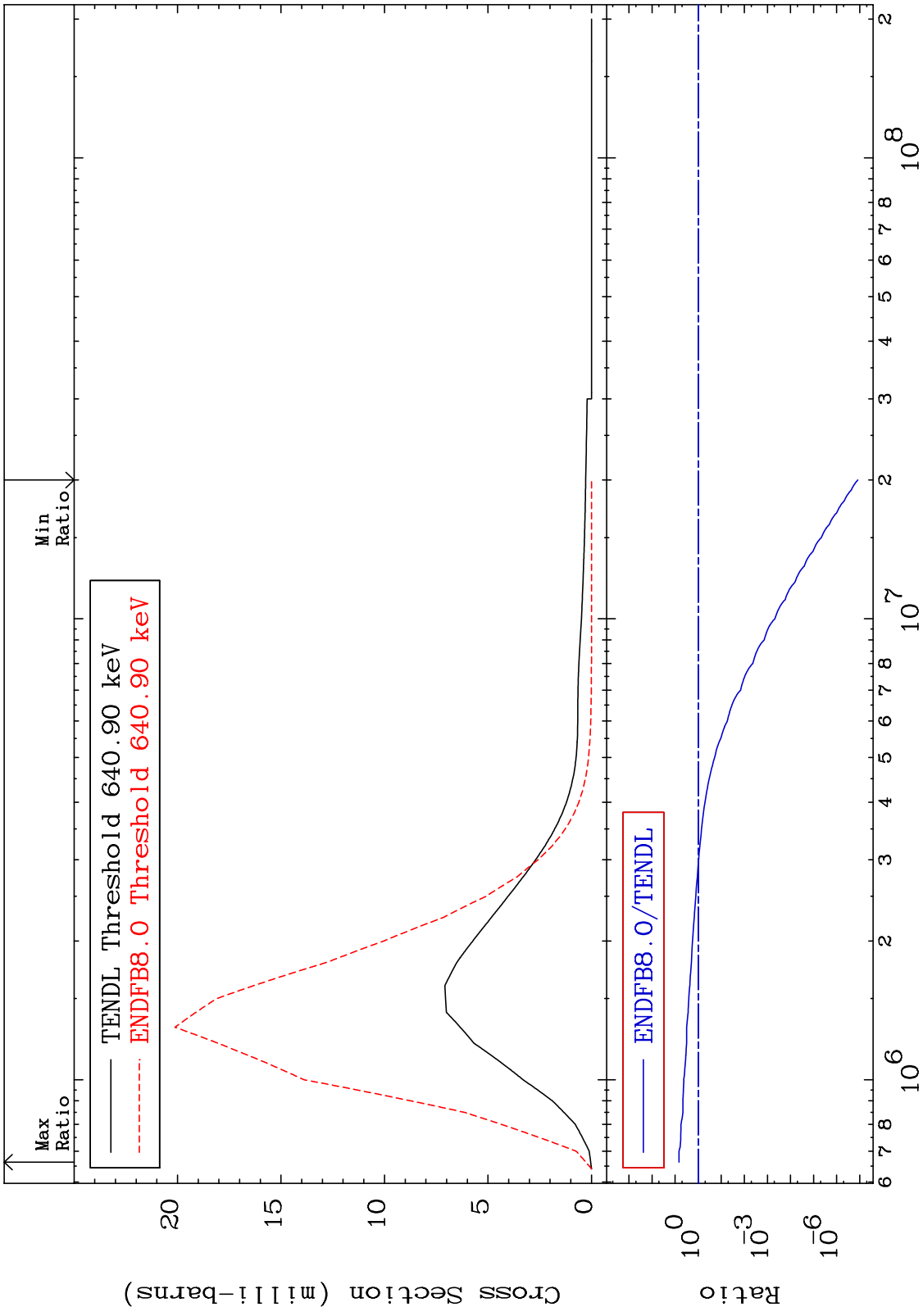
MAT 6931 MT= 58 (n,n') Level Cross Section 69-Tm-171 -100.0 To 7.096 %



MAT 6931 MT= 59 (n,n') Level Cross Section 69-Tm-171 -100.0 To 3.709 %



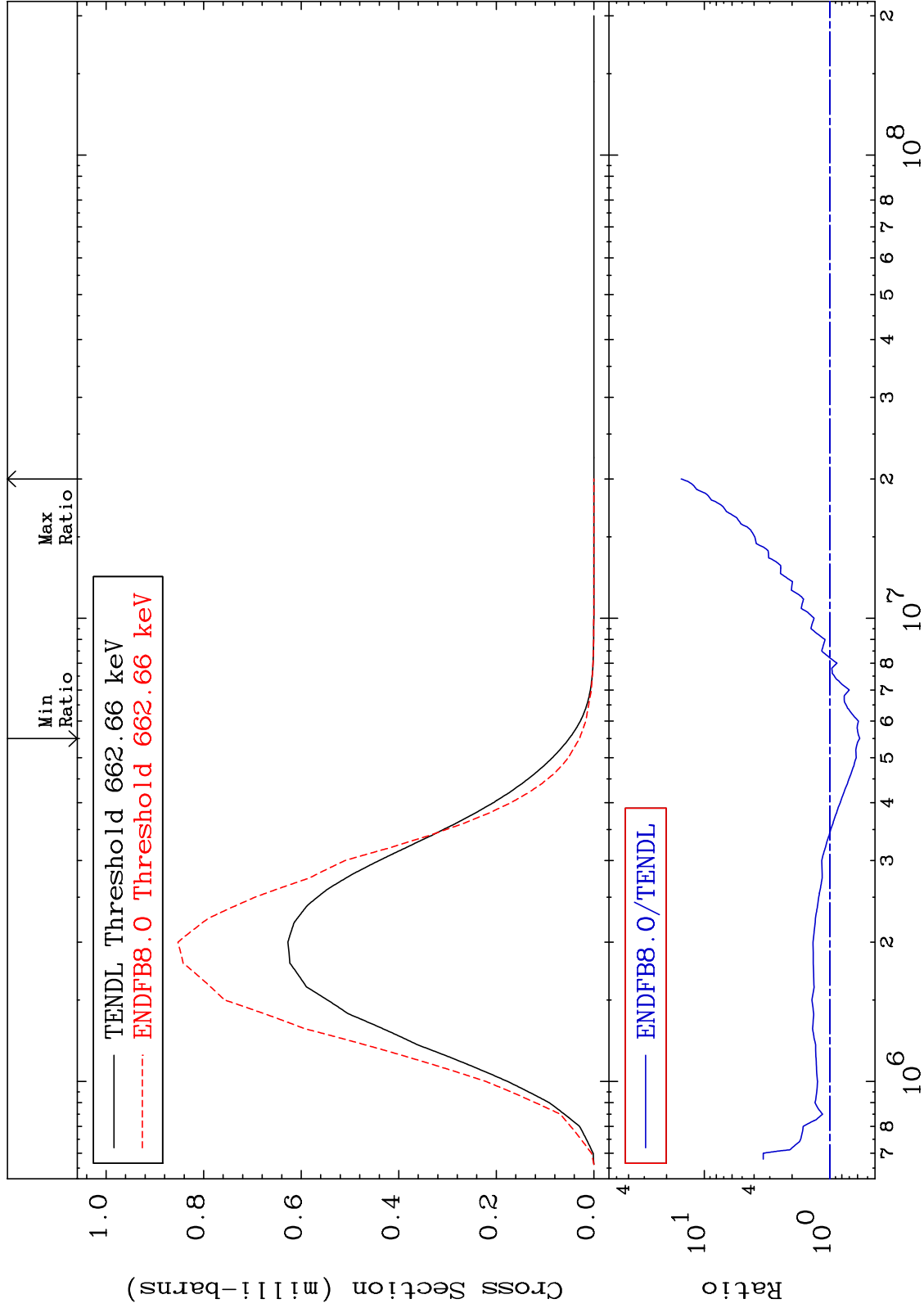
MAT 6931 MT= 60 (n,n') Level 69-Tm-171
 Cross Section -100.0 To 574.2 %



MAT 6931

MT= 61 (n,n') Level
Cross Section

69-Tm-171
-42.36 To 1425. %



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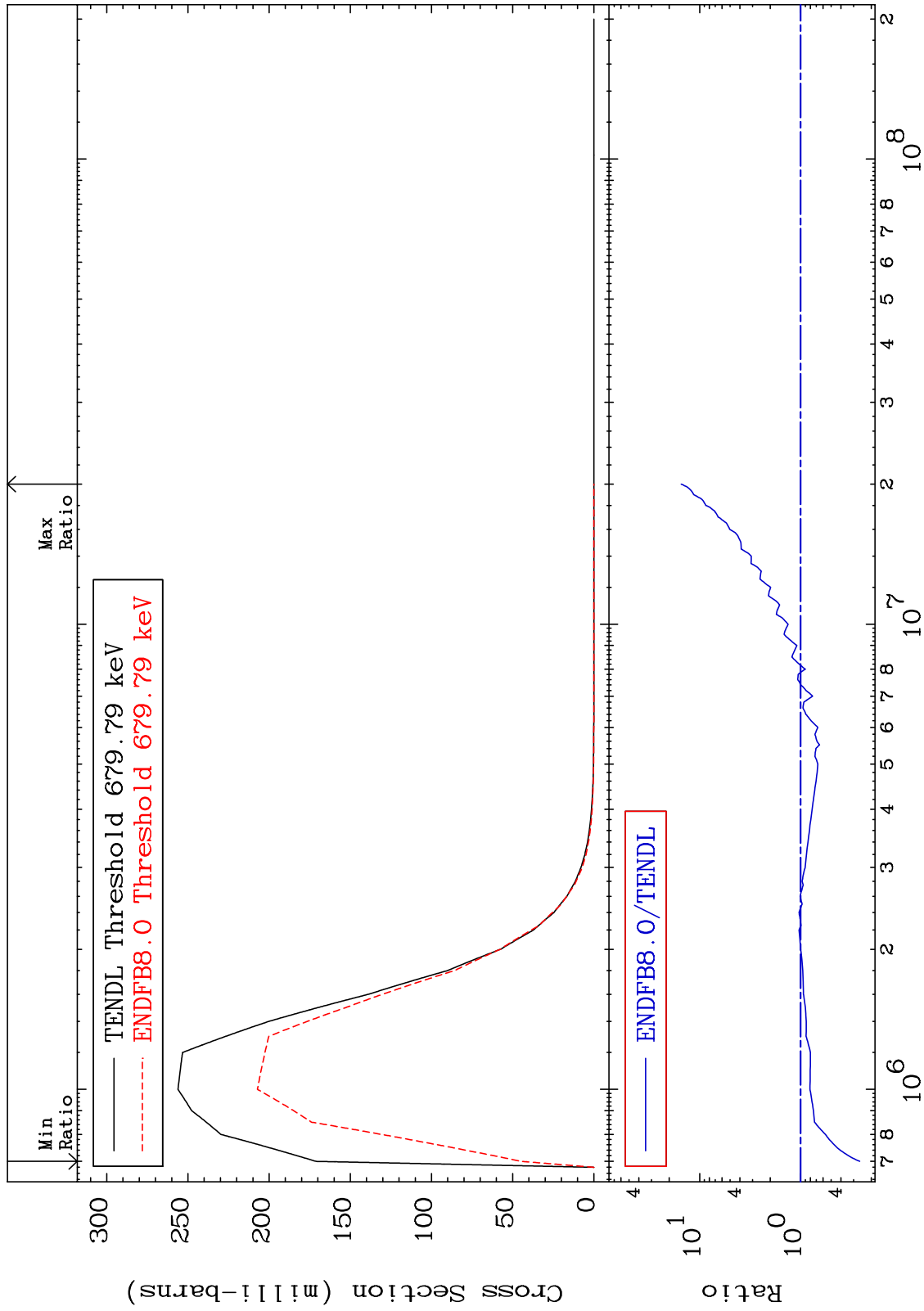
Incident Energy (eV)

69-Tm-171

MAT 6931

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

69-Tm-171
-73.98 To 1420. %

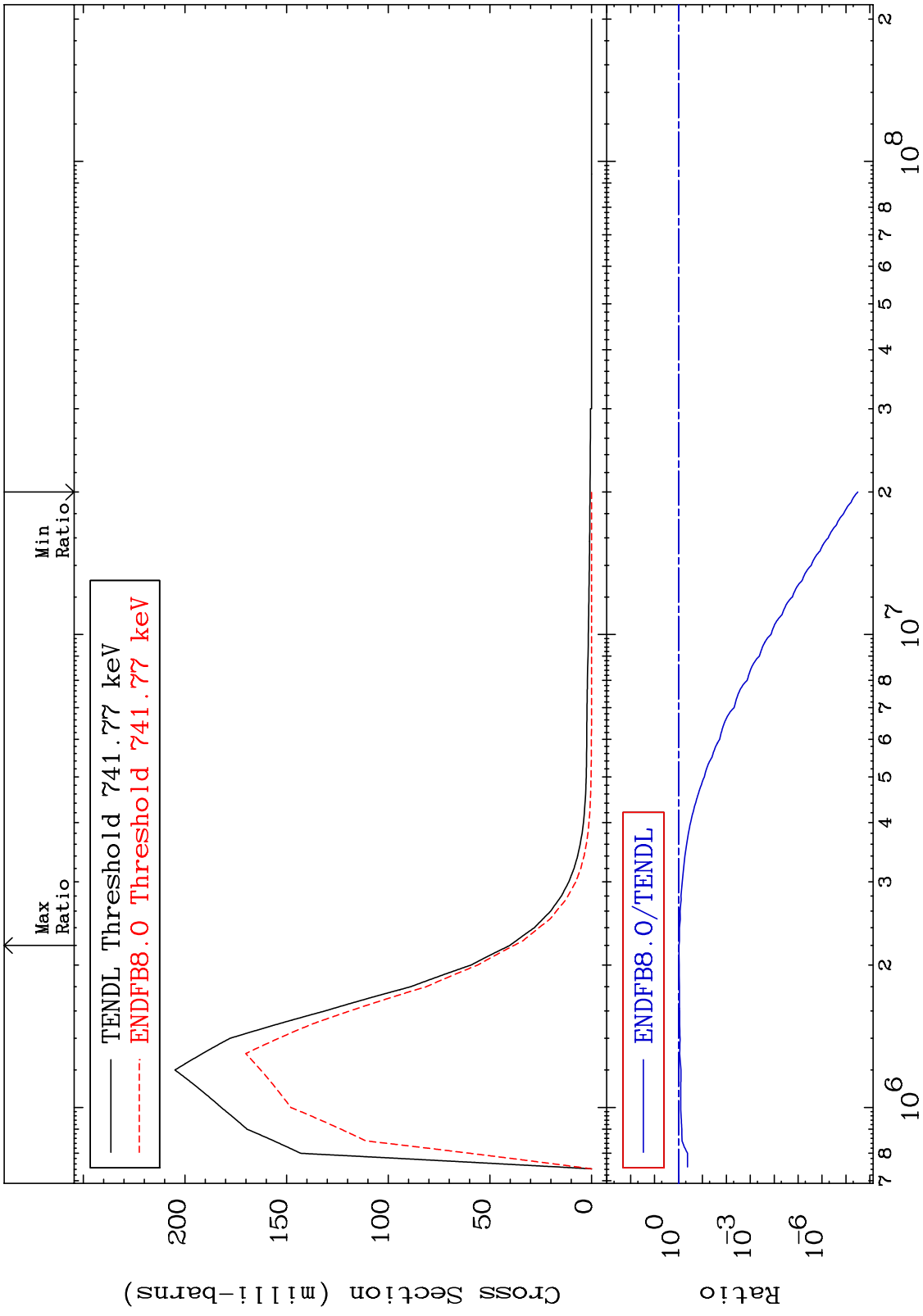


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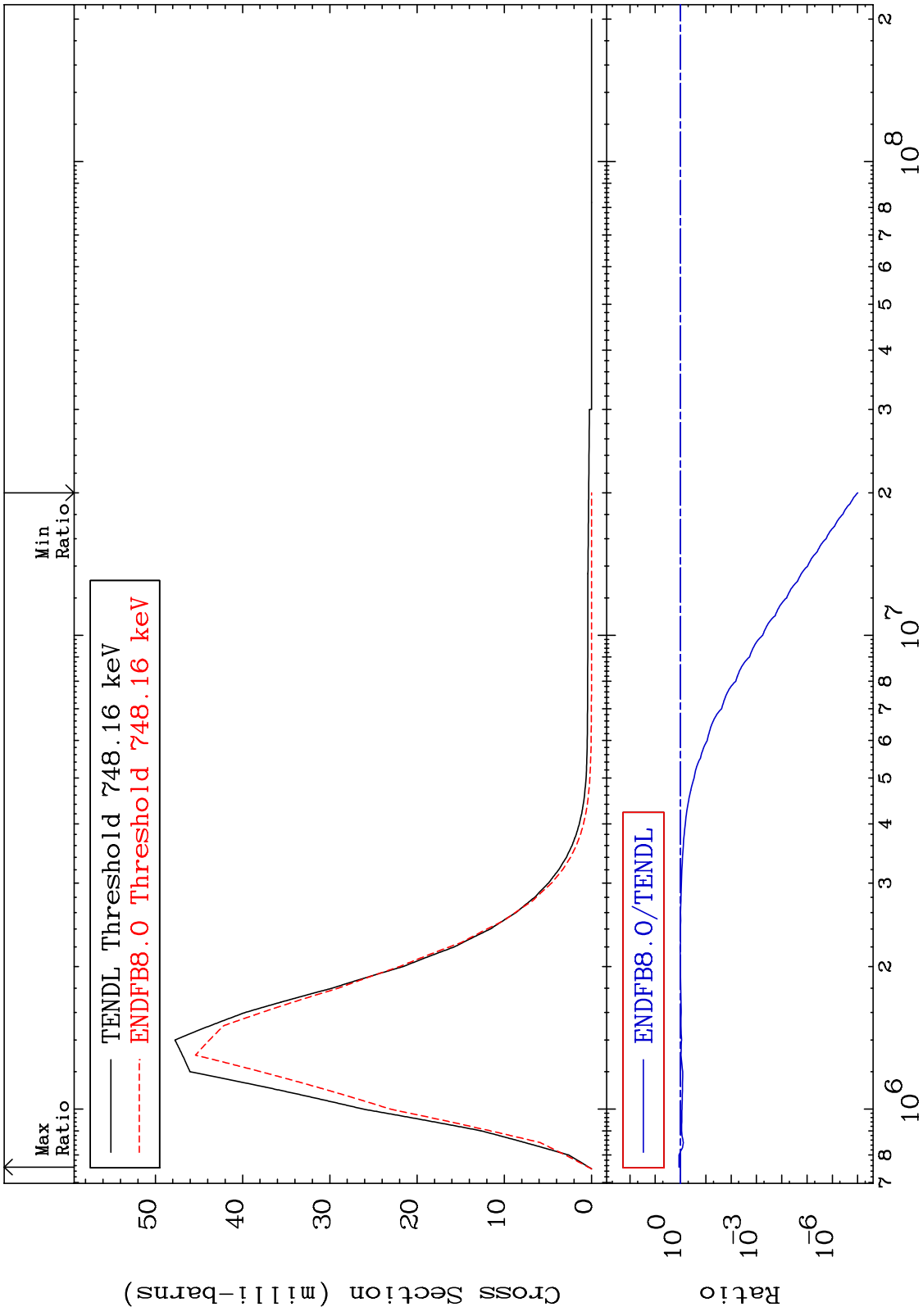
Incident Energy (eV)

69-Tm-171

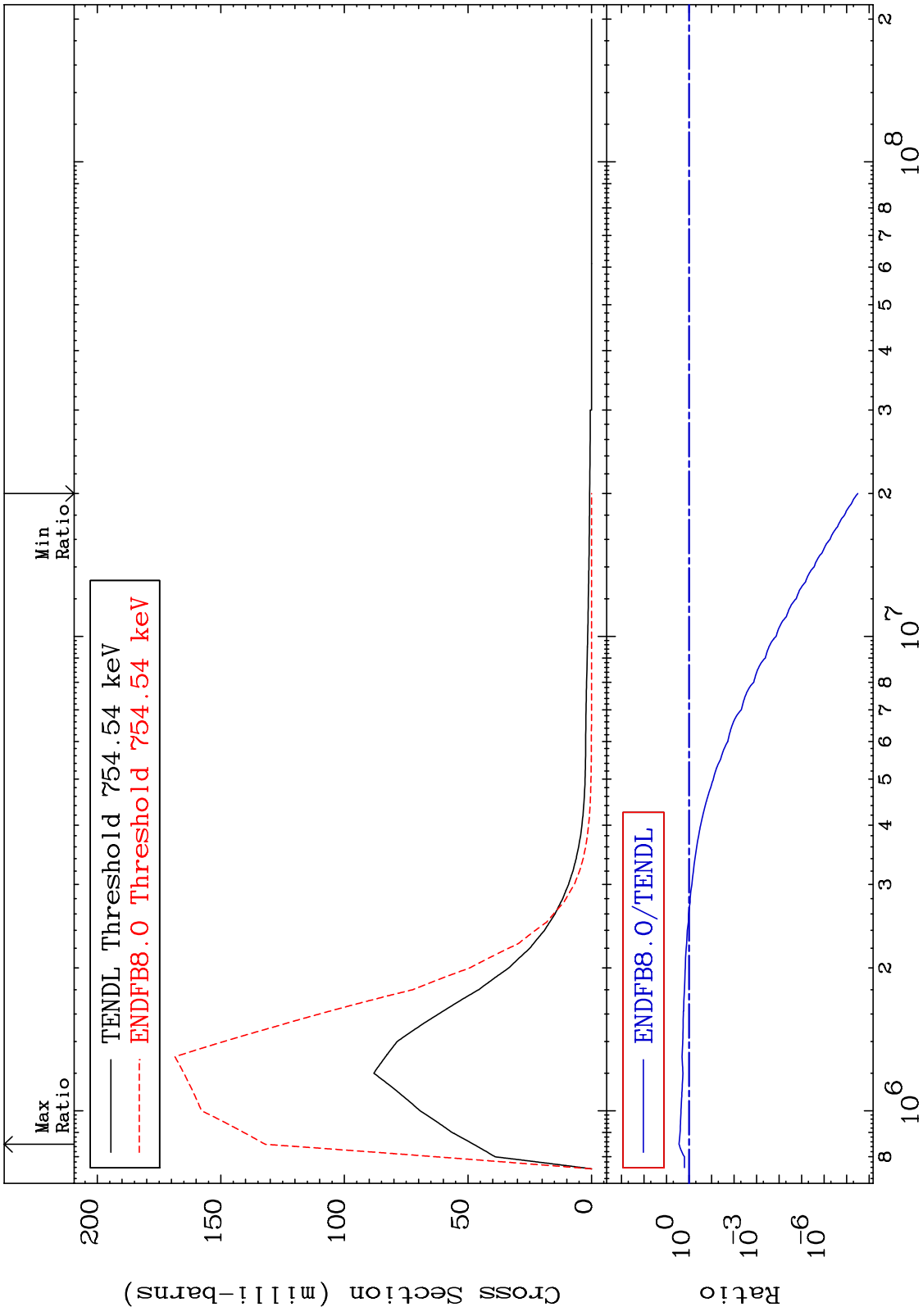
MAT 6931 MT= 63 (n,n') Level Cross Section 69-Tm-171 -100.0 To -4.998%



MAT 6931 MT= 64 (n,n') Level Cross Section 69-Tm-171 -100.0 To 14.68 %



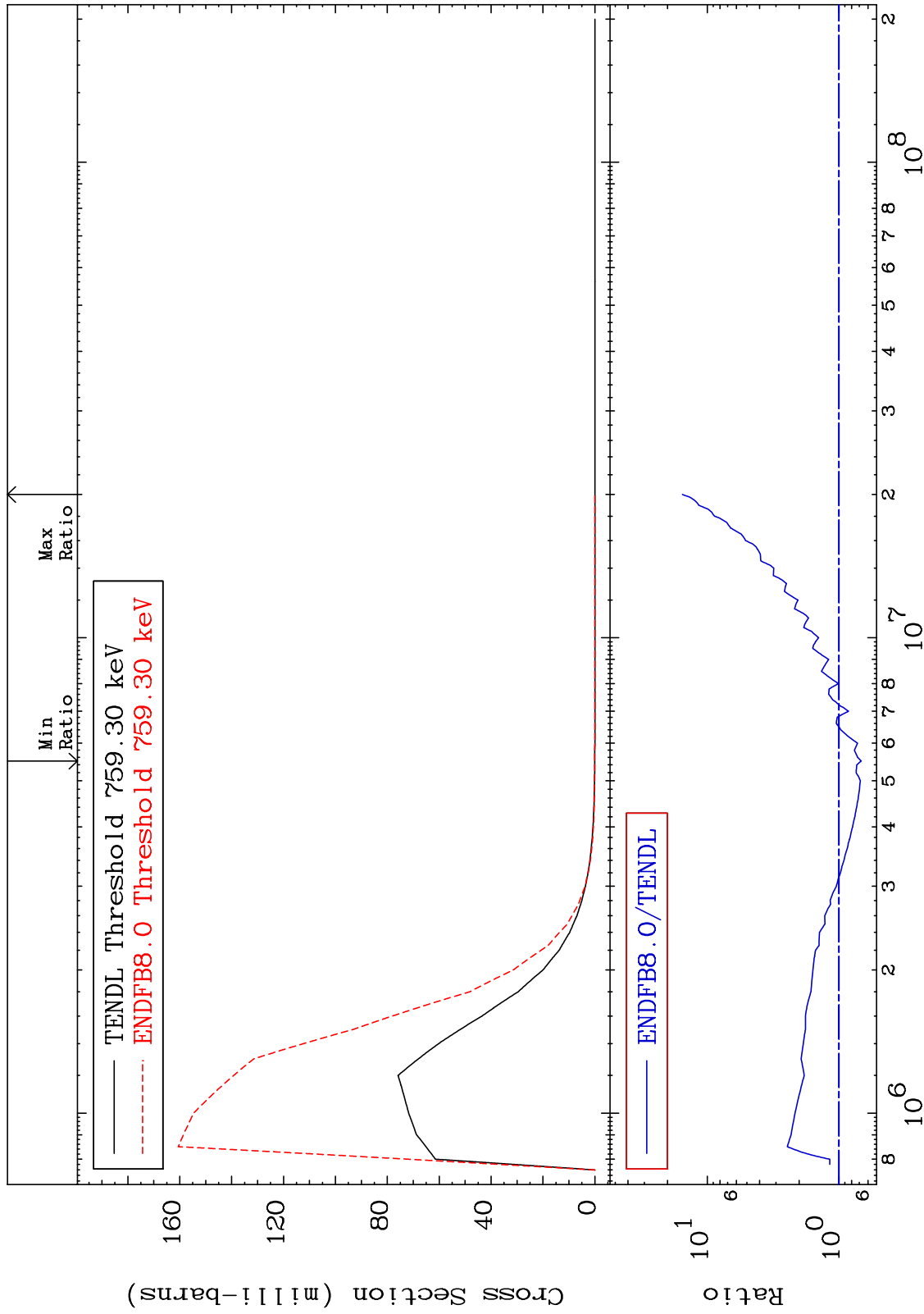
MAT 6931 MT= 65 (n,n') Level 69-Tm-171
 Cross Section -100.0 To 176.8 %



MAT 6931

MT= 66 (n,n') Level
Cross Section

69-Tm-171
-32.43 To 1442. %

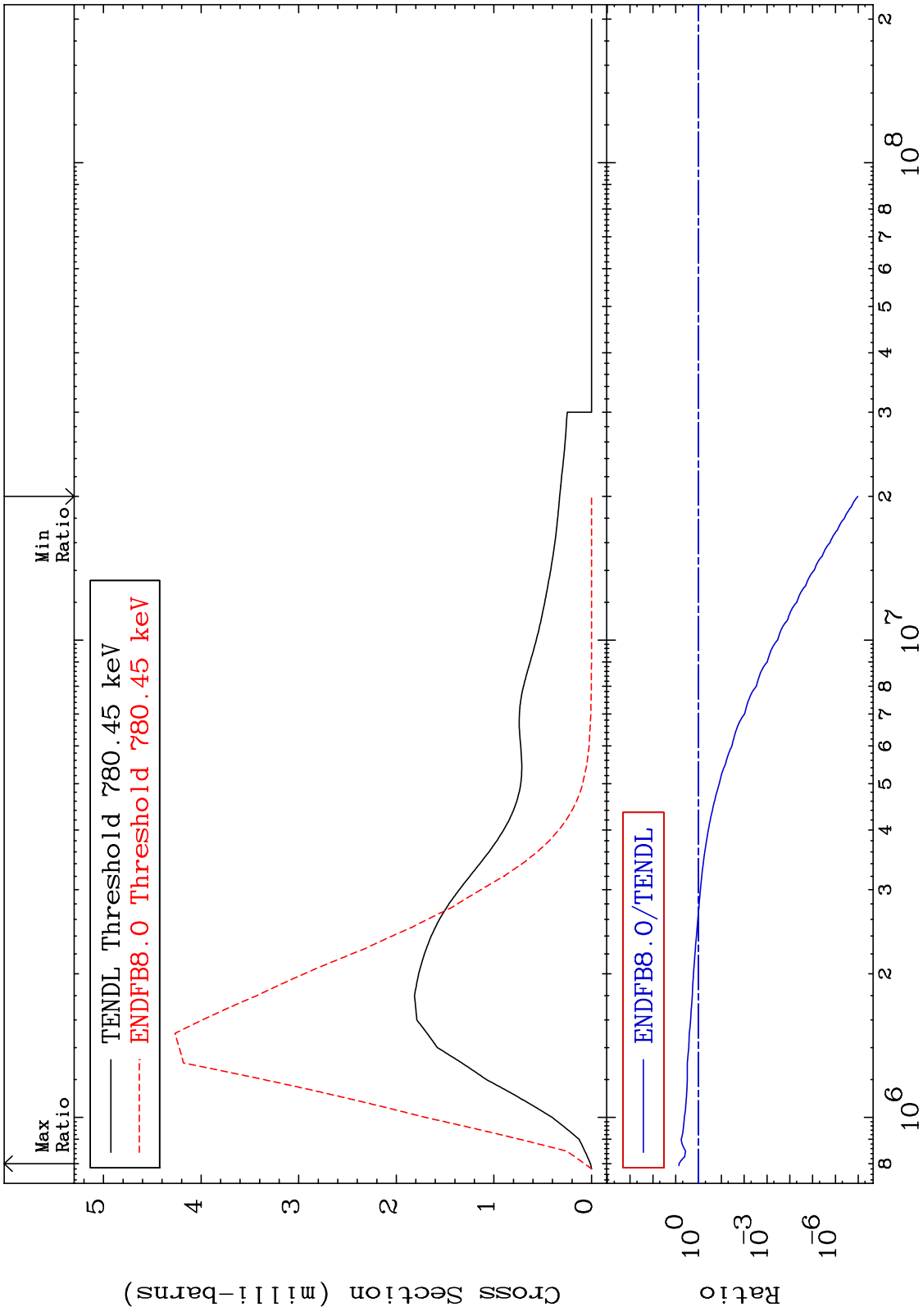


20

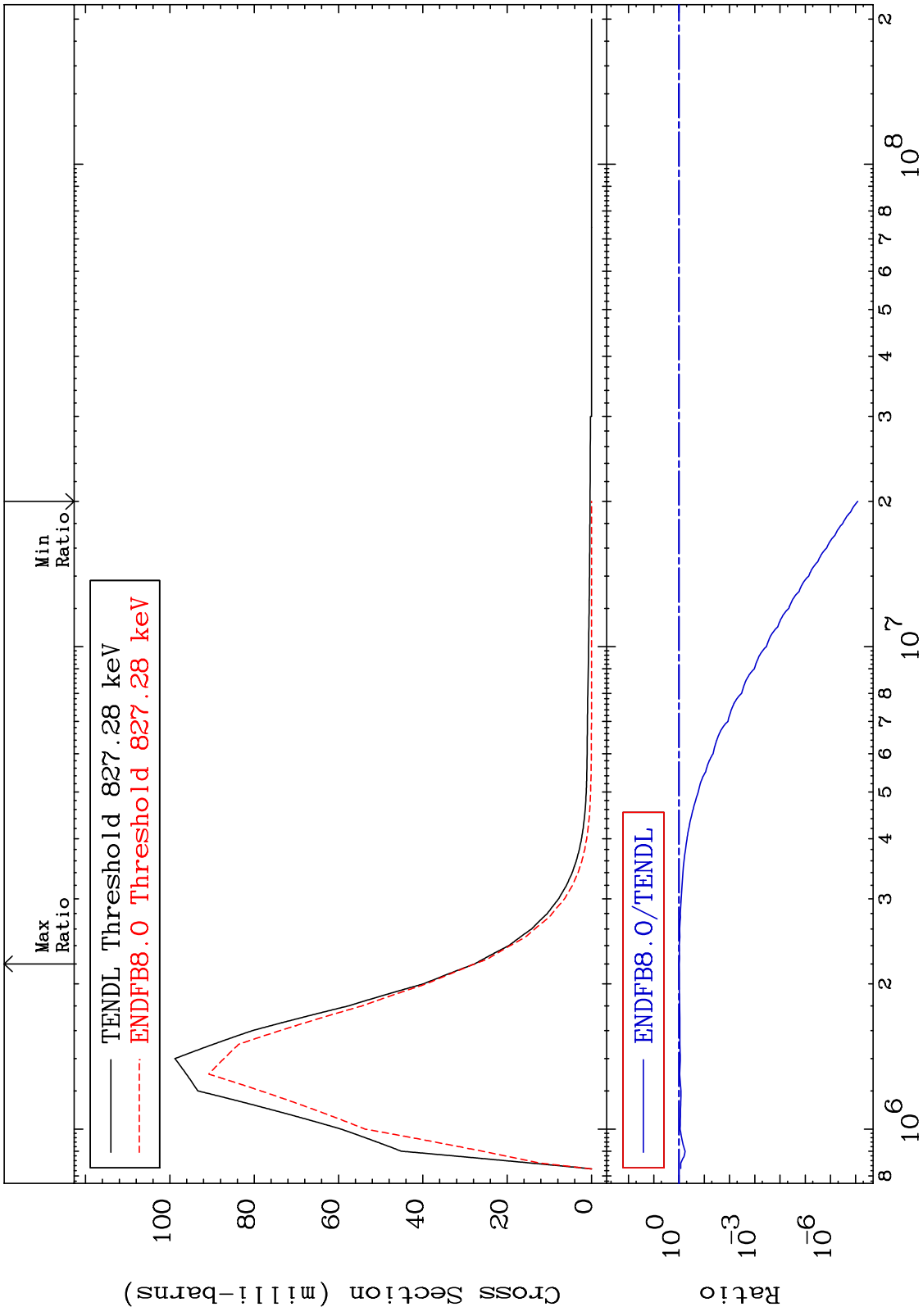
Incident Energy (eV)

69-Tm-171

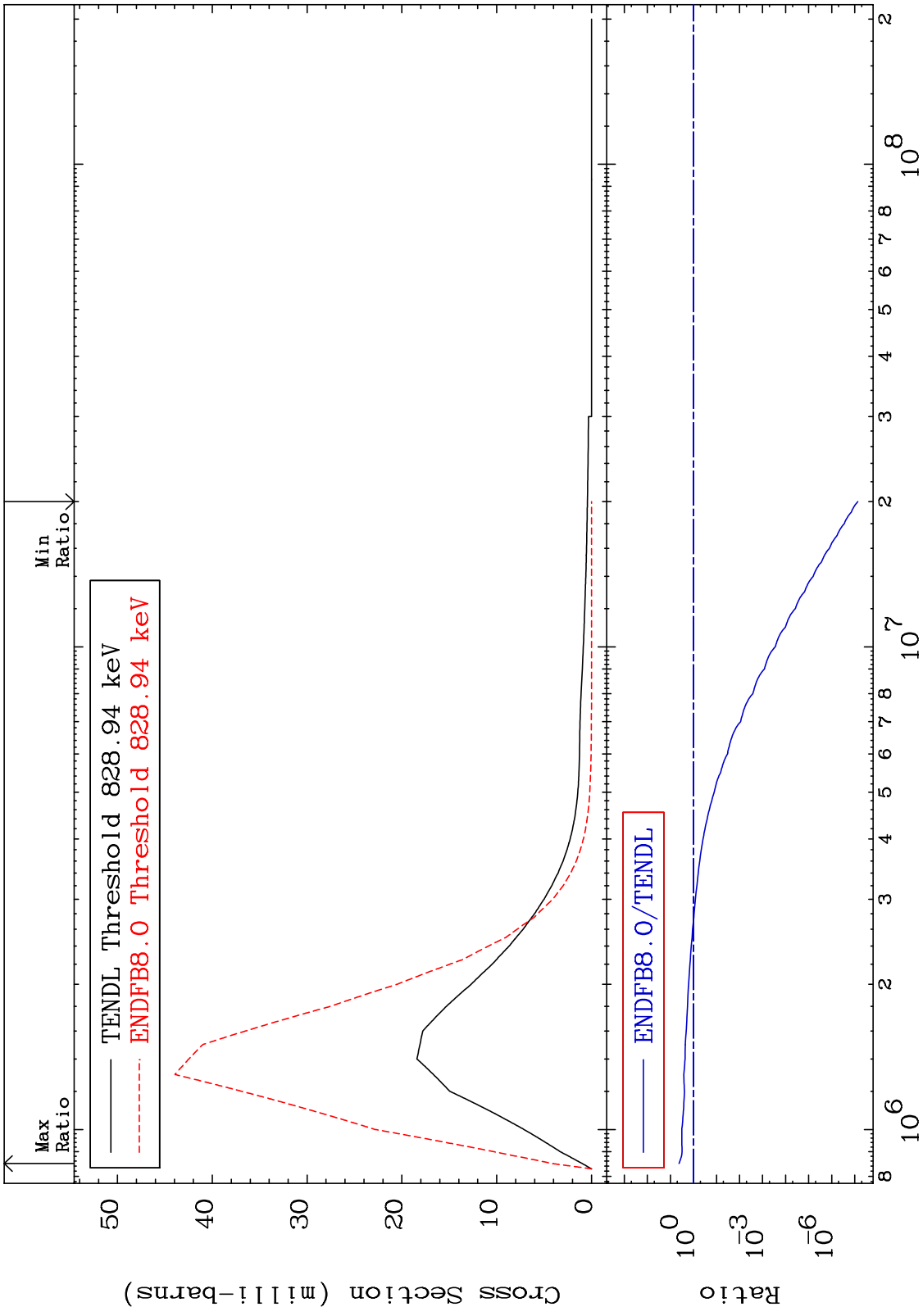
MAT 6931 MT= 67 (n,n') Level Cross Section 69-Tm-171 -100.0 To 615.5 %



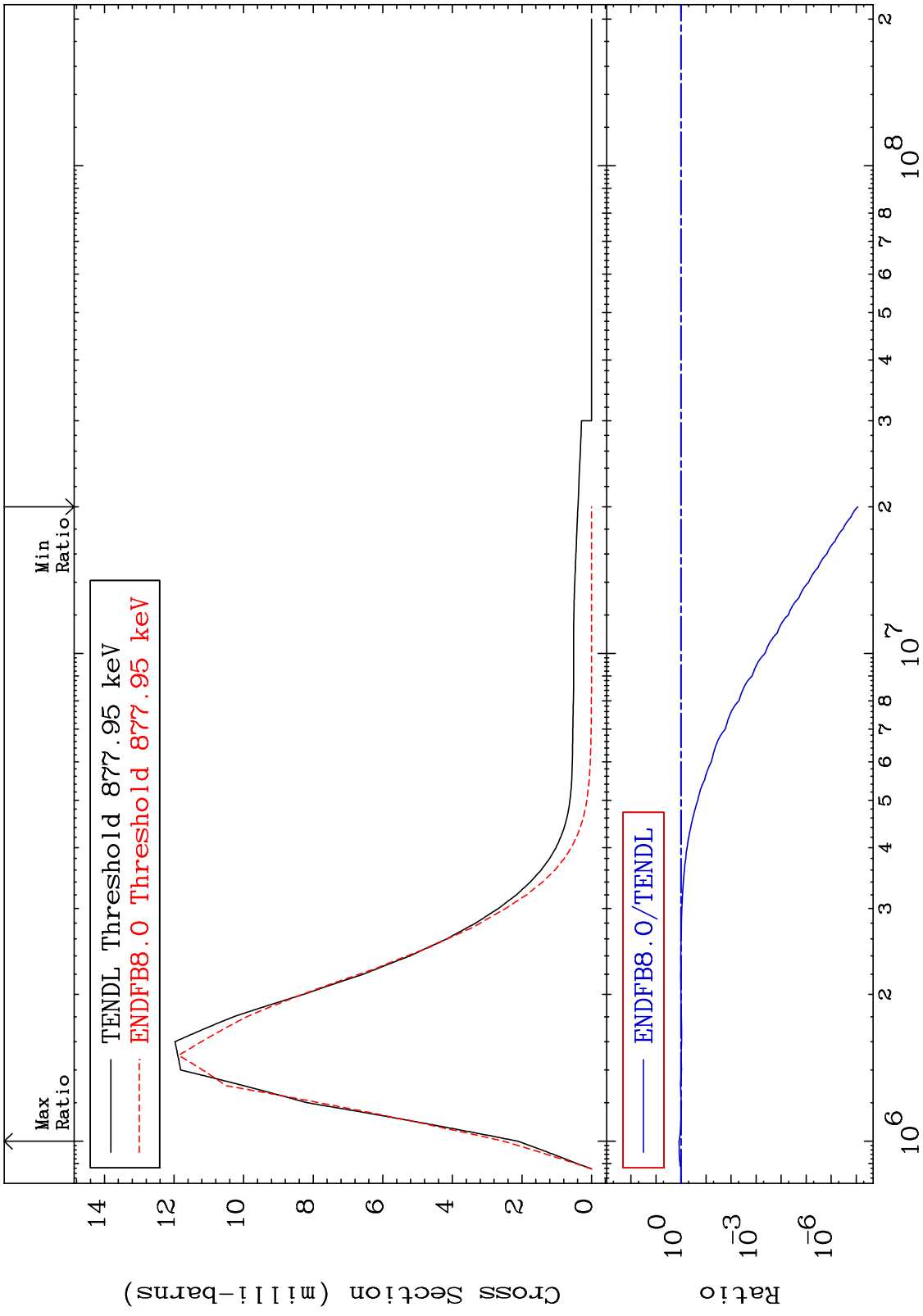
MAT 6931 MT= 68 (n,n') Level Cross Section 69-Tm-171 -100.0 To -0.277%



MAT 6931 MT= 69 (n,n') Level Cross Section 69-Tm-171
 -100.0 To 321.3 %

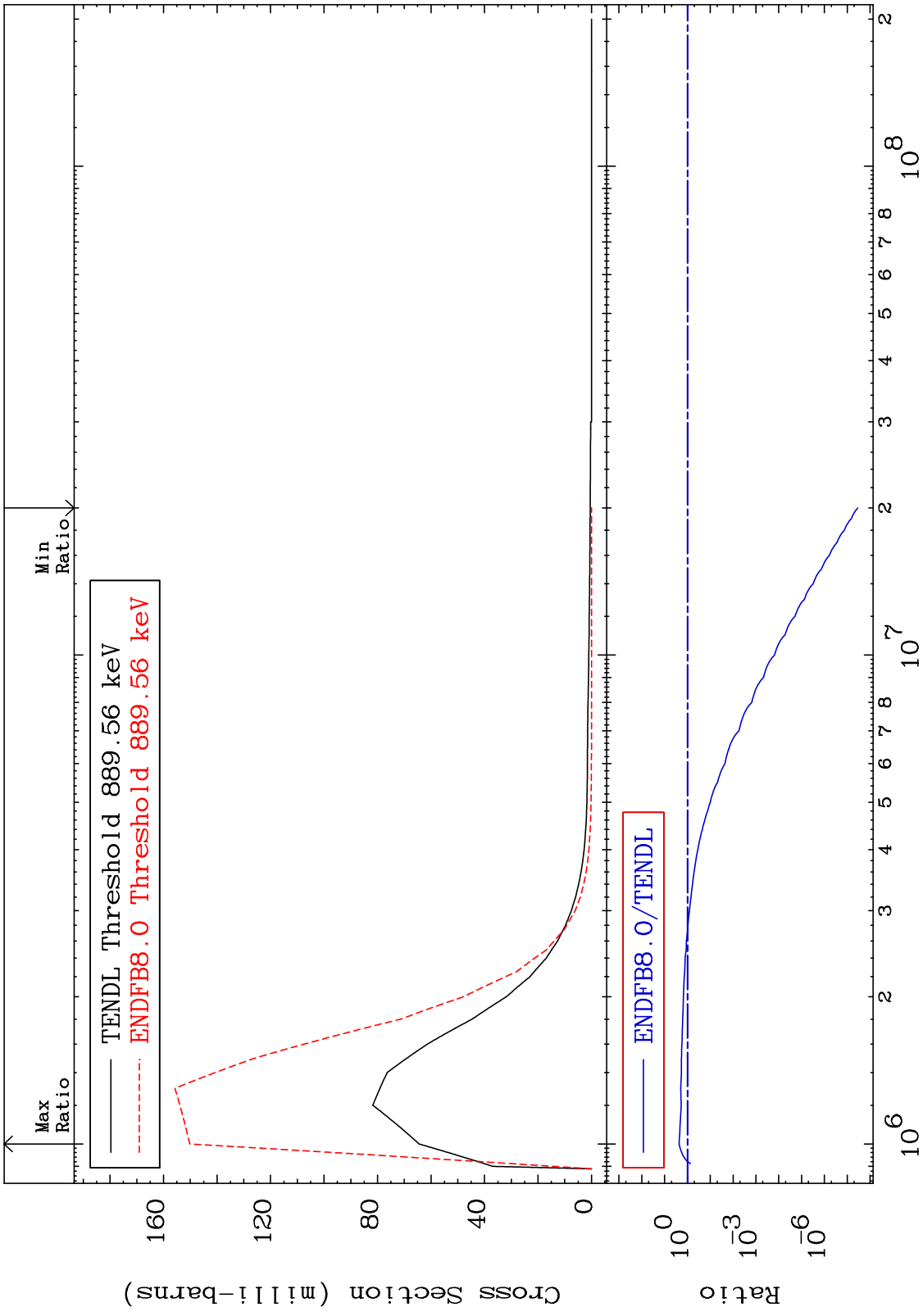


MAT 6931 MT= 70 (n,n') Level 69-Tm-171
 Cross Section -100.0 To 19.29 %



24 Incident Energy (eV) 69-Tm-171

MAT 6931 MT= 71 (n,n') Level Cross Section 69-Tm-171 -100.0 To 133.0 %

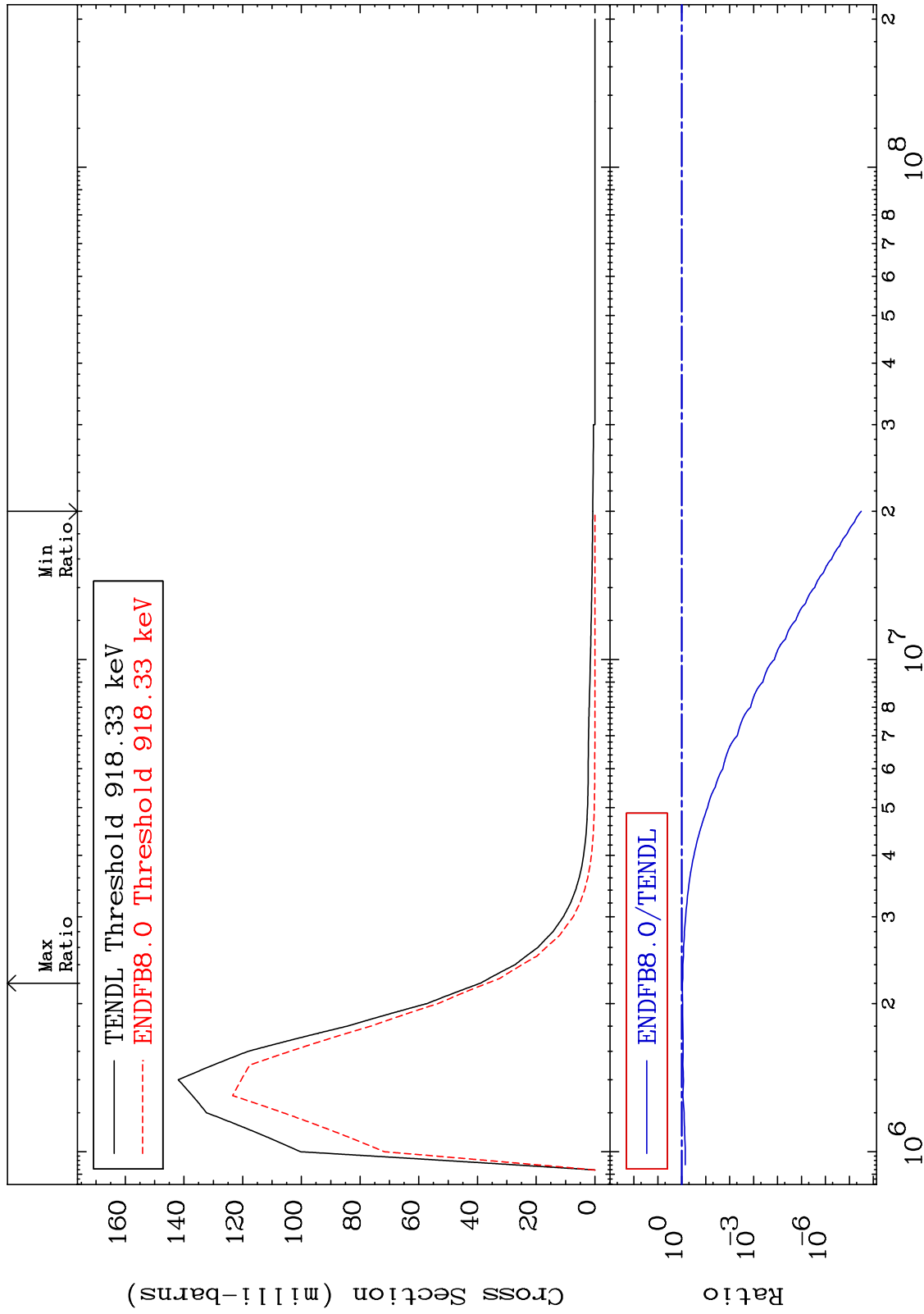


25 Incident Energy (eV) 69-Tm-171

MAT 6931

MT= 72 (n,n') Level
Cross Section

69-Tm-171
-100.0 To -6.034%

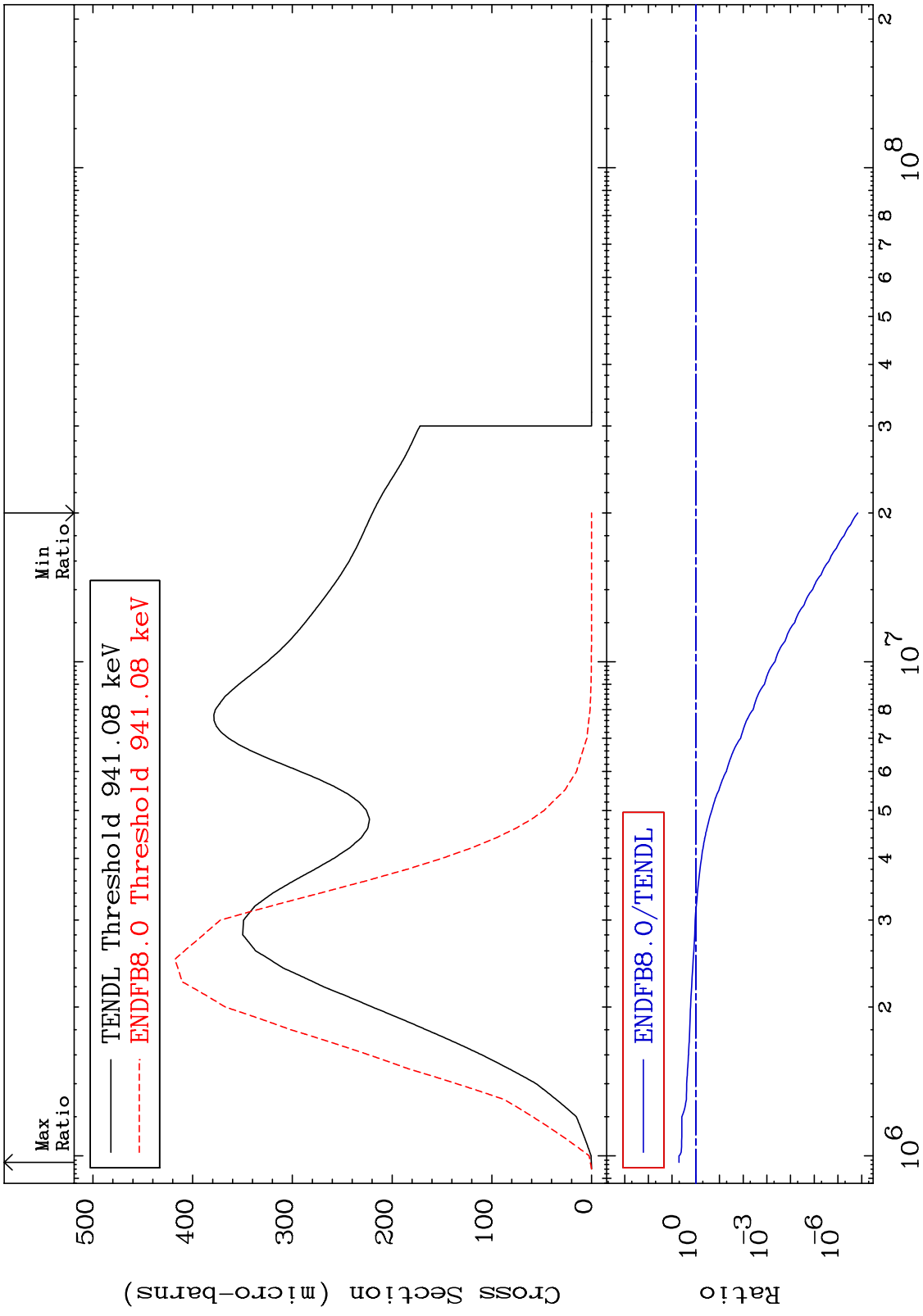


26

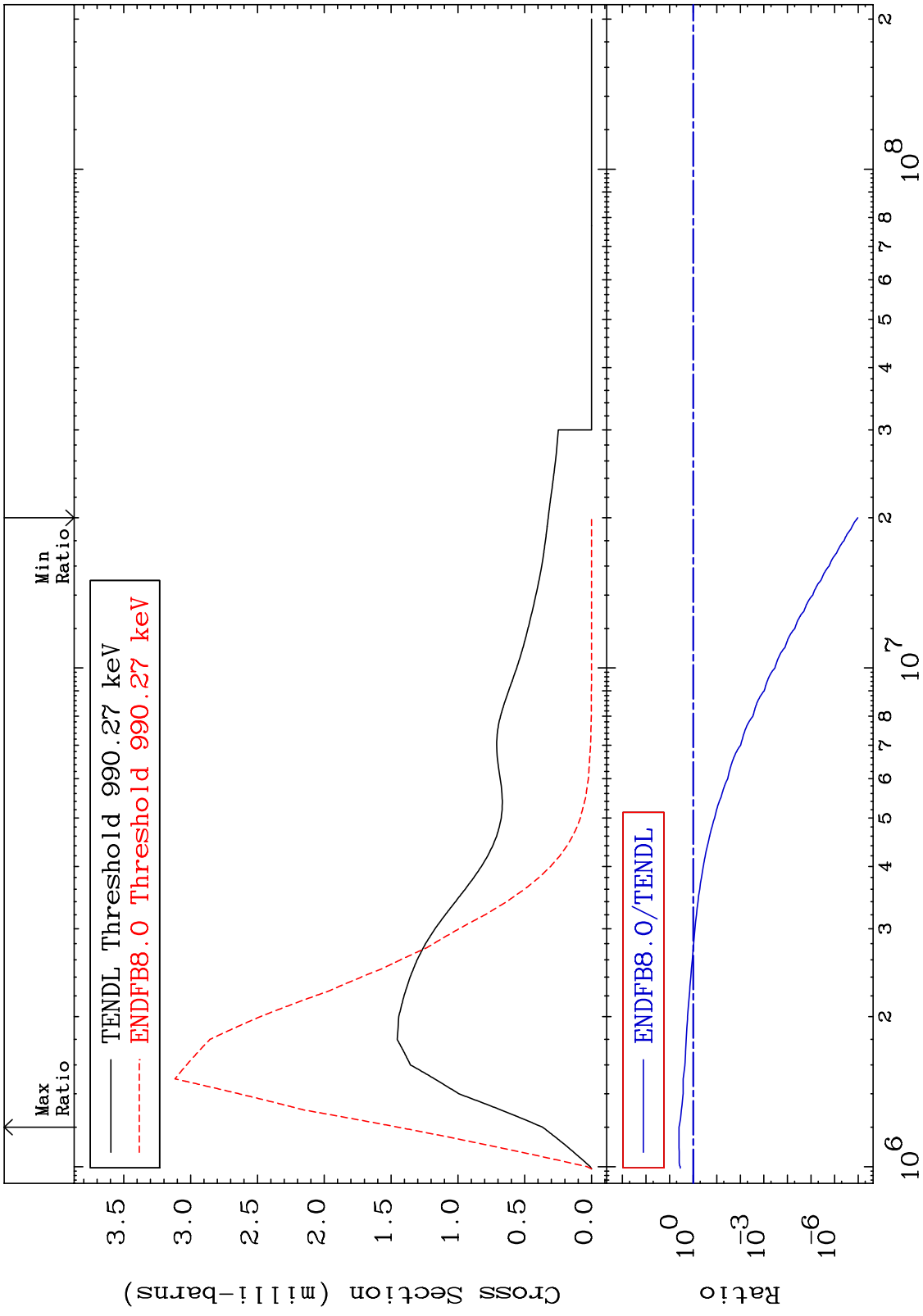
Incident Energy (eV)

69-Tm-171

MAT 6931 MT= 73 (n,n') Level Cross Section 69-Tm-171 -100.0 To 408.0 %



MAT 6931 MT= 74 (n,n') Level 69-Tm-171
 Cross Section -100.0 To 295.9 %

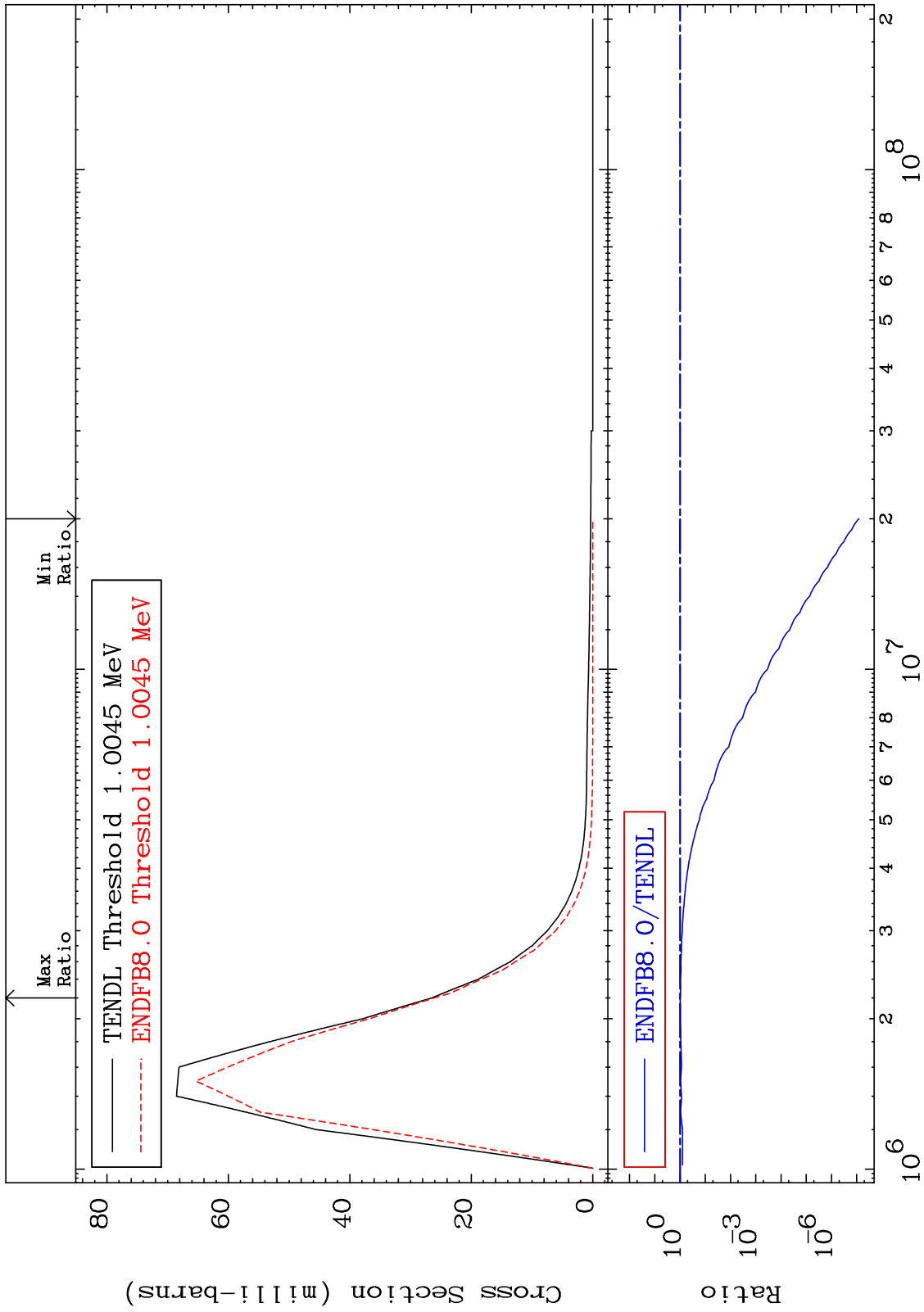


28 Incident Energy (eV) 69-Tm-171

MAT 6931

MT= 75 (n,n') Level
Cross Section

69-Tm-171
-100.0 To -1.478%

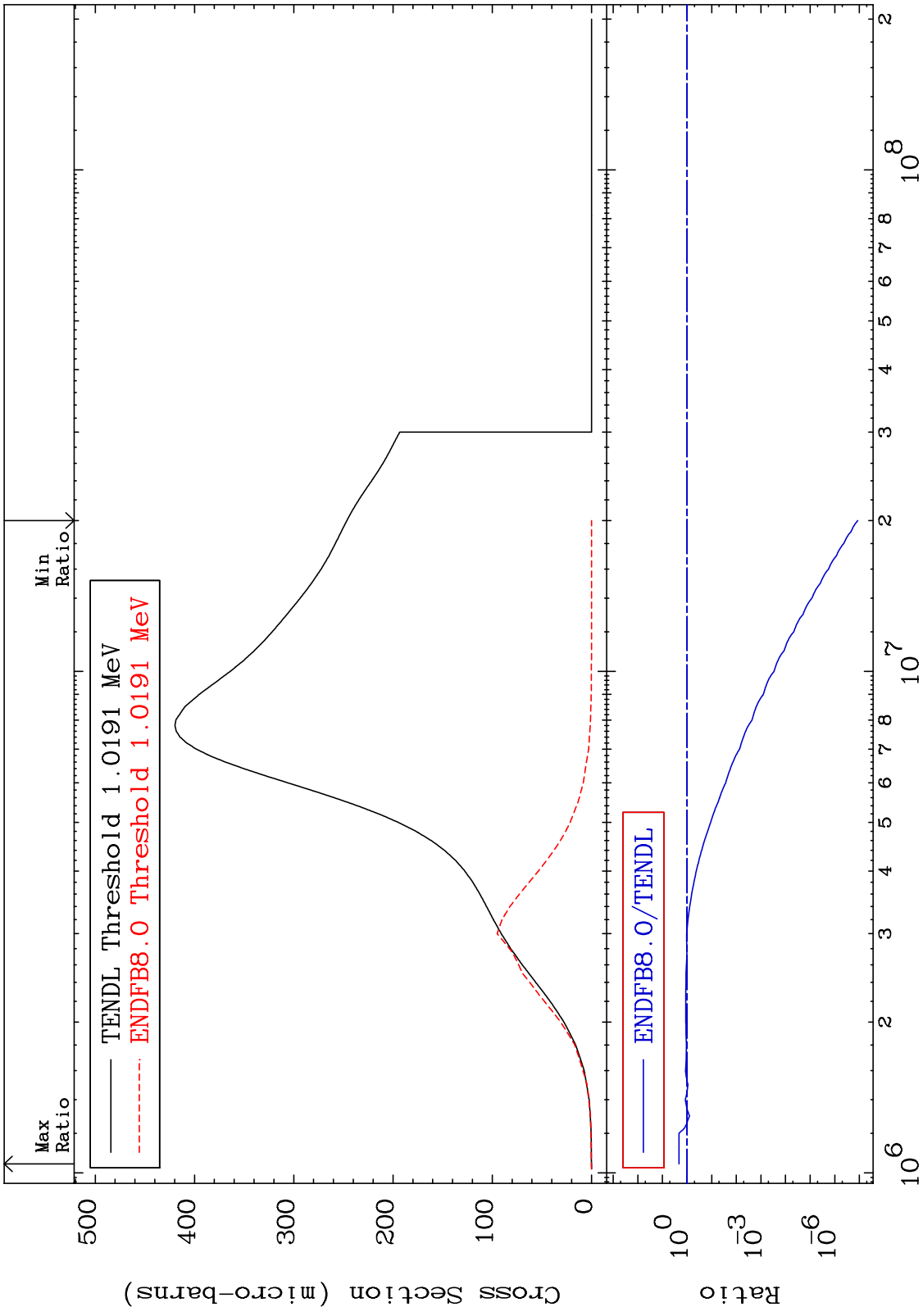


29

Incident Energy (eV)

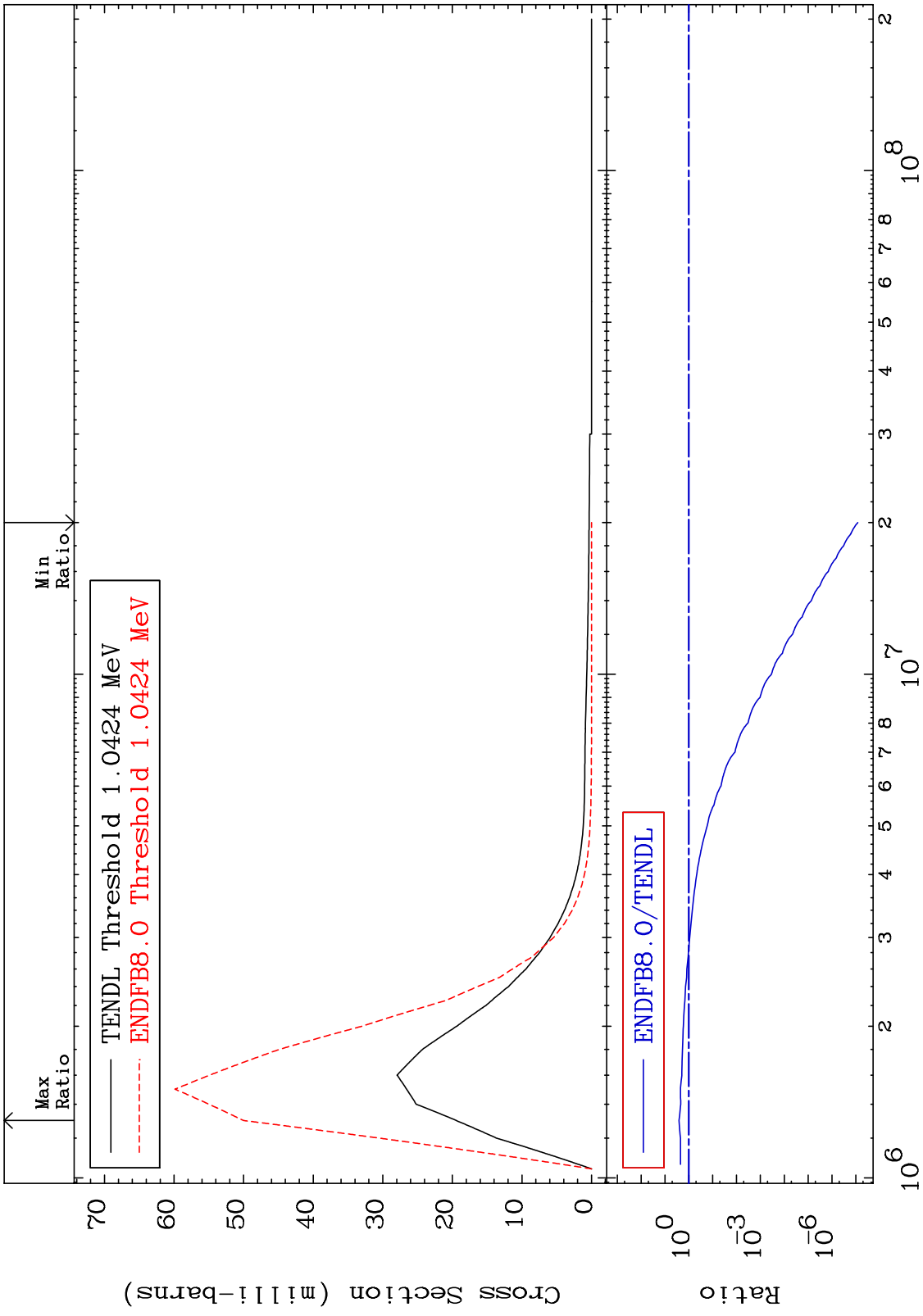
69-Tm-171

MAT 6931 MT= 76 (n,n') Level Cross Section 69-Tm-171
 -100.0 To 111.2 %



30 Incident Energy (eV) 69-Tm-171

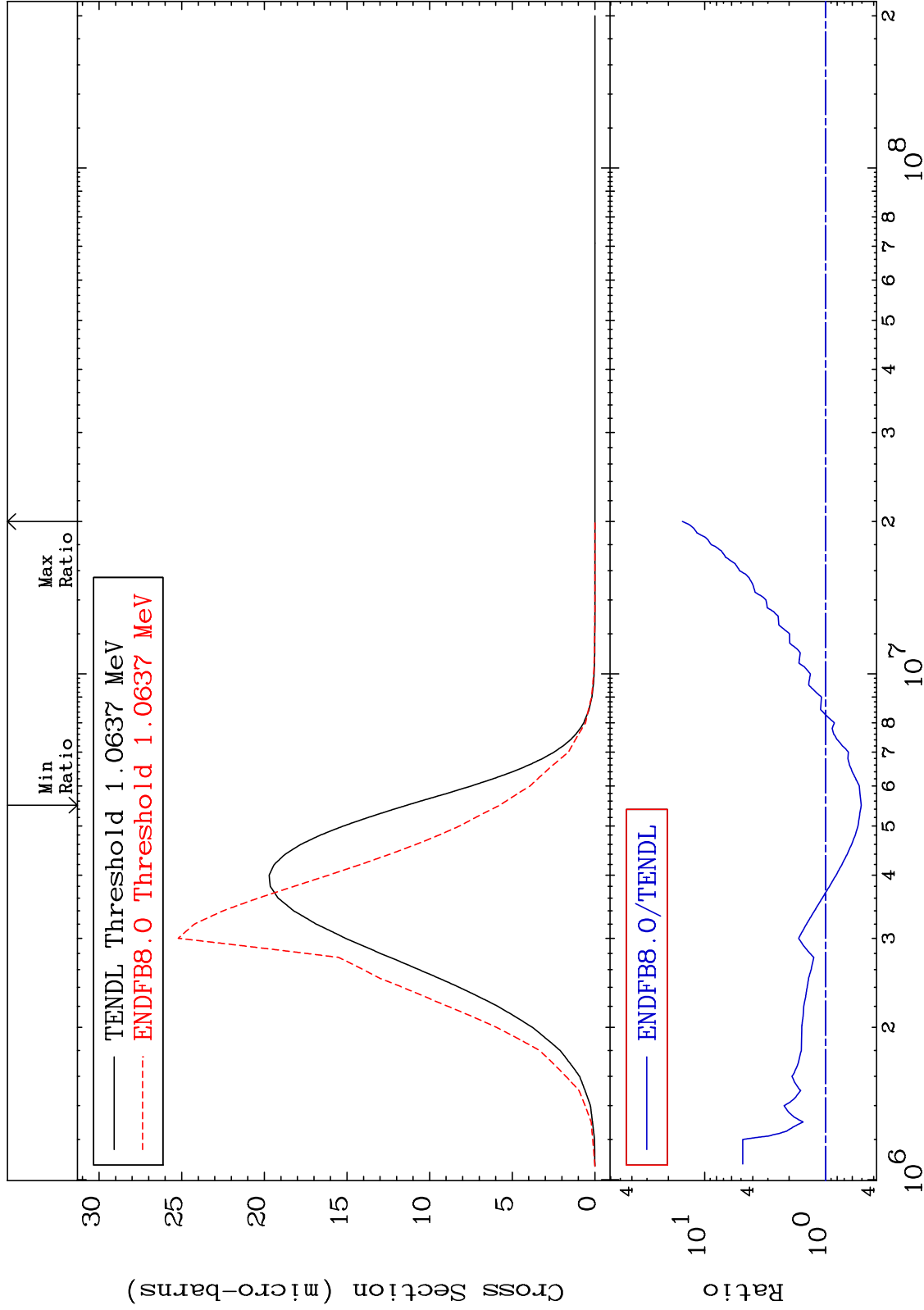
MAT 6931 MT= 77 (n,n') Level Cross Section 69-Tm-171
 -100.0 To 157.4 %



MAT 6931

MT= 78 (n,n') Level
Cross Section

69-Tm-171
-49.40 To 1428. %

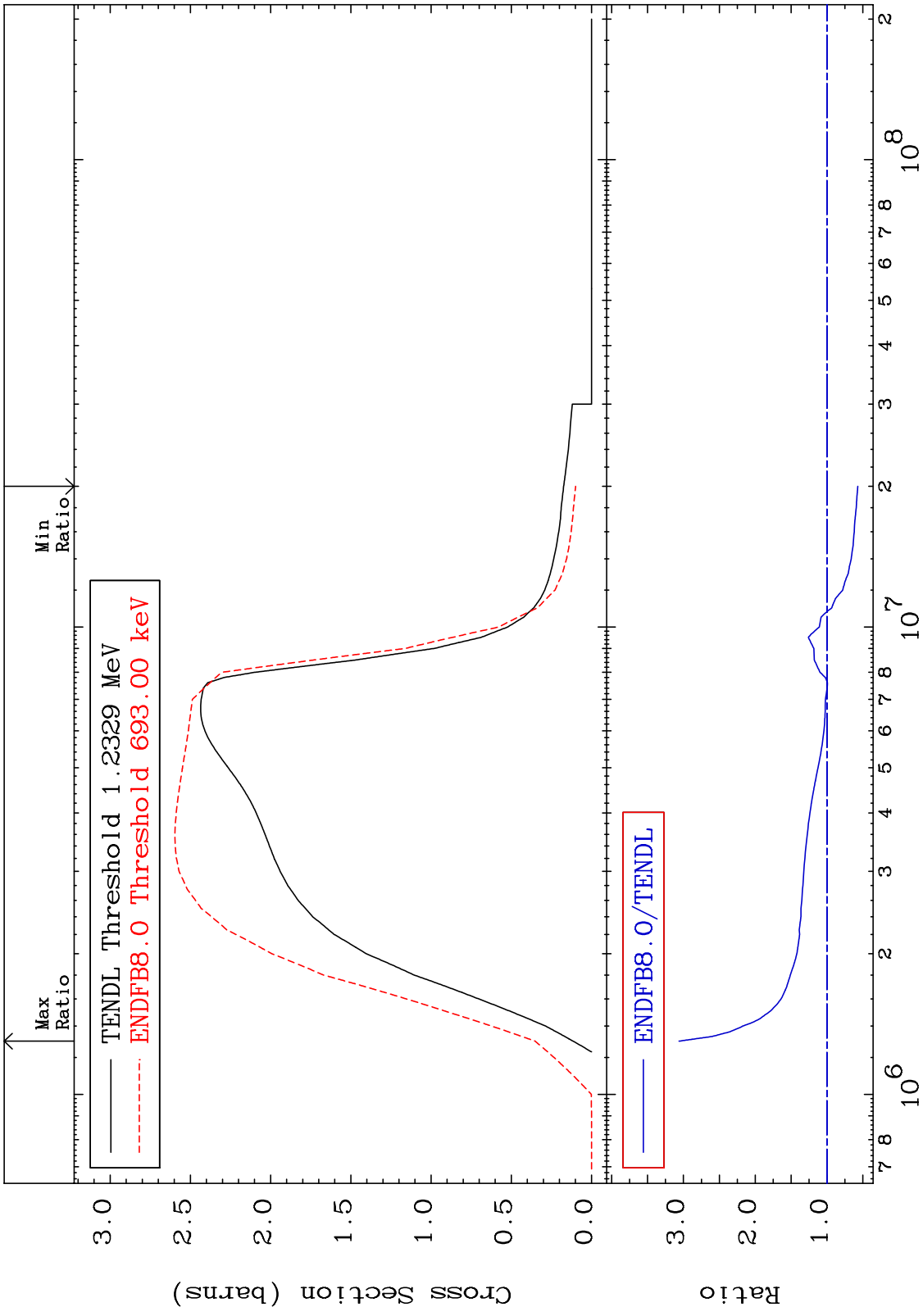


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Incident Energy (eV)

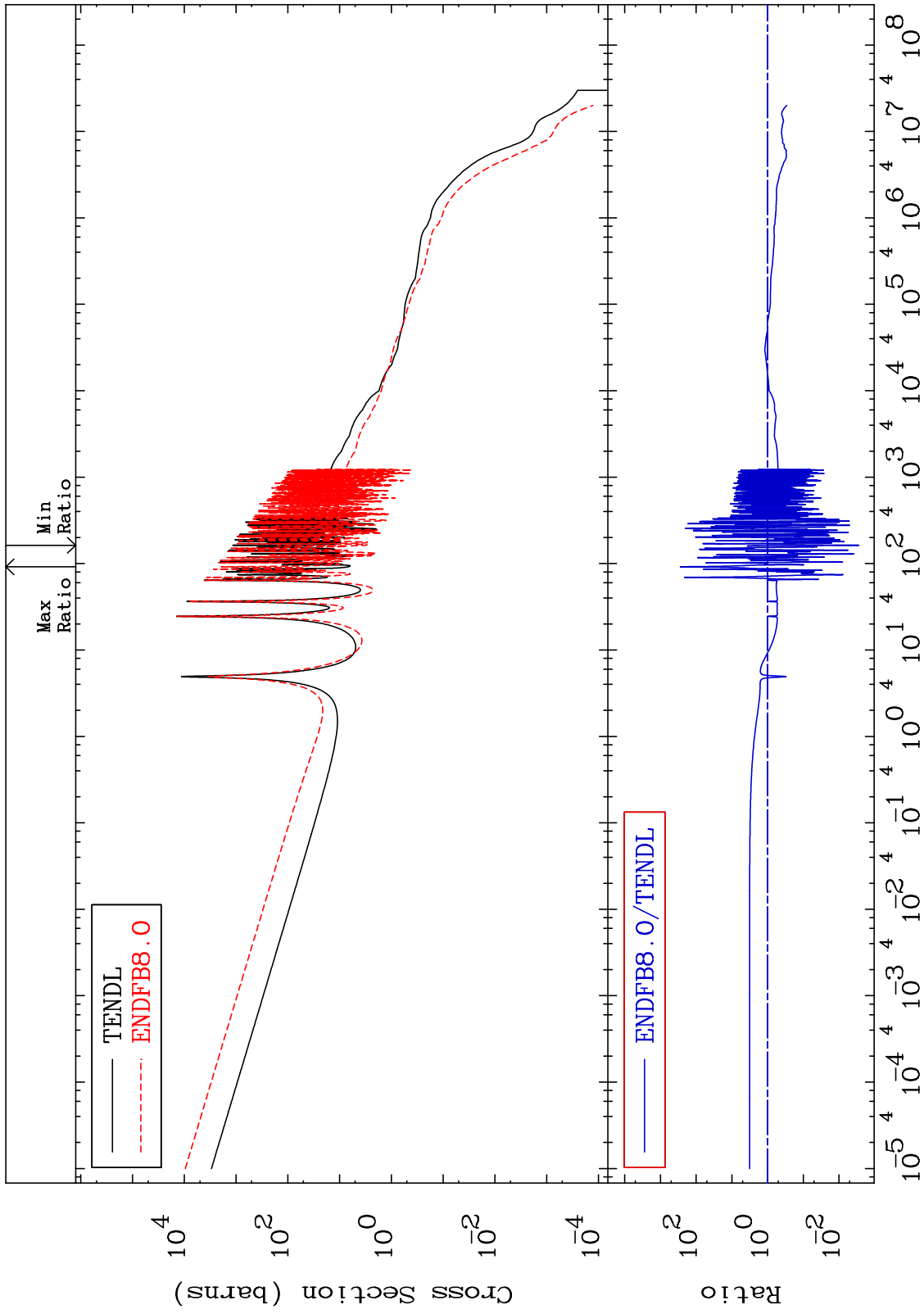
69-Tm-171

MAT 6931 (n,n') Continuum Cross Section 69-Tm-171 -42.97 To 206.1 %



MAT 6931

(n, γ) Cross Section
69-Tm-171
-99.72 To 9999. %



MAT 6931

(n,p)

69-Tm-171

-93.37 To 9999. %

Cross Section

Max Ratio

Min Ratio

TENDL Threshold 713.17 keV
ENDFB8.0 Threshold 711.78 keV

Cross Section (milli-barns)

16

12

8

4

0

10^6

Ratio

10^4

10^2

10^0

ENDFB8.0/TENDL

7

8

10⁶

10⁷

10⁸

10⁸

2

3

4

5

6

7

8

35

Incident Energy (eV)

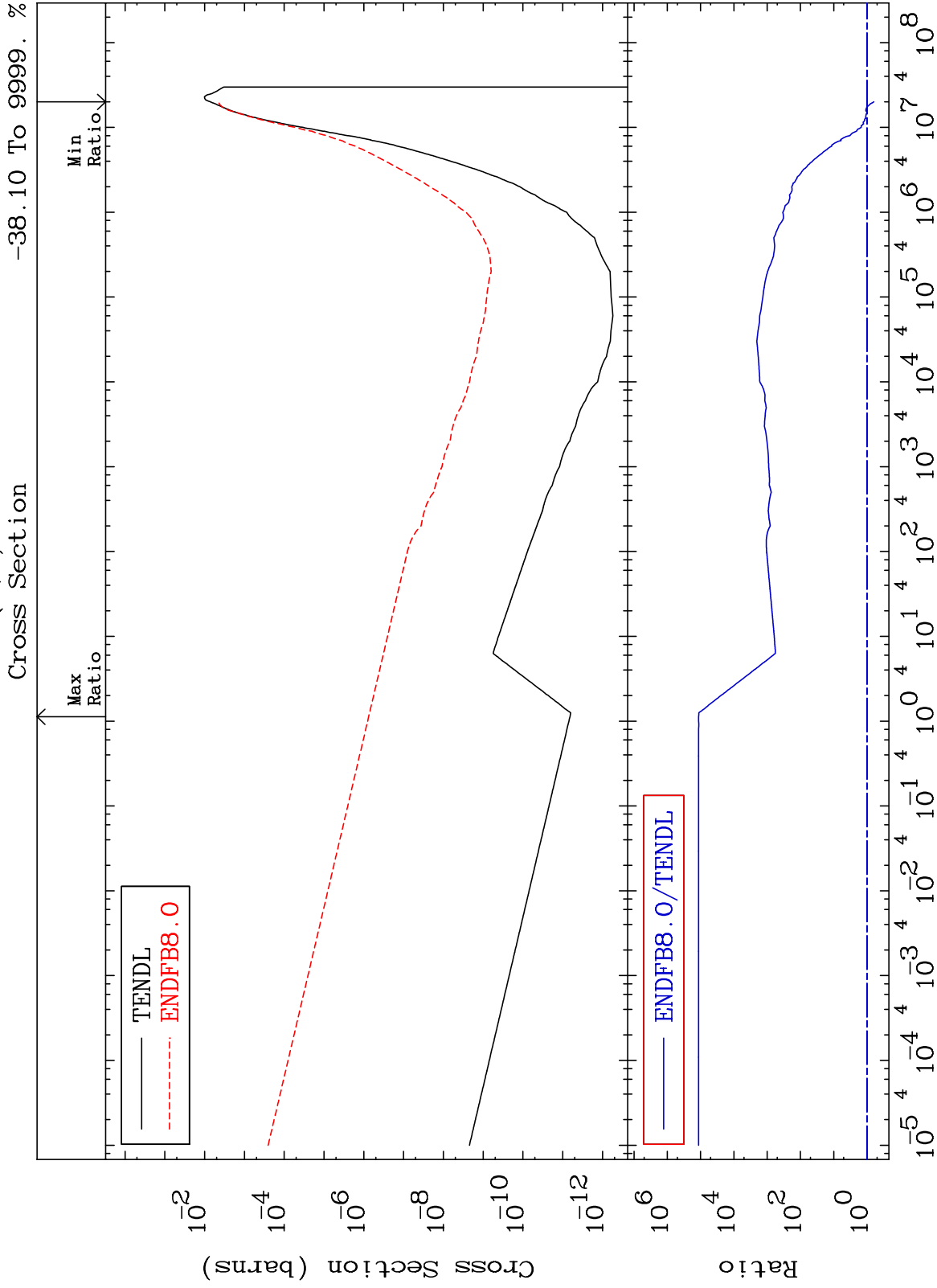
69-Tm-171

MAT 6931

(n, α)

69-Tm-171

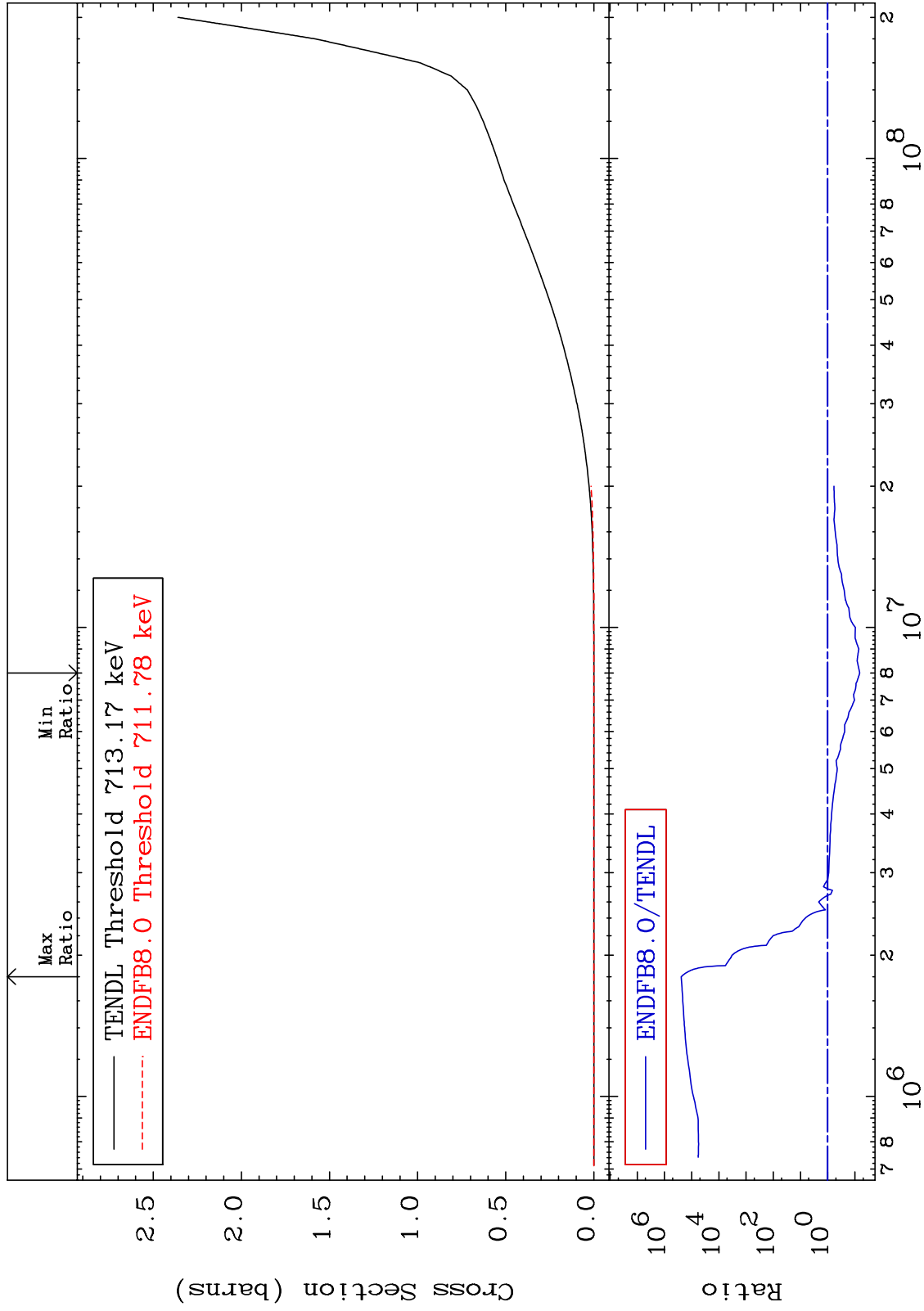
-38.10 To 9999. %



MAT 6931

Hydrogen Production
Cross Section

69-Tm-171
-93.37 To 9999. %



37

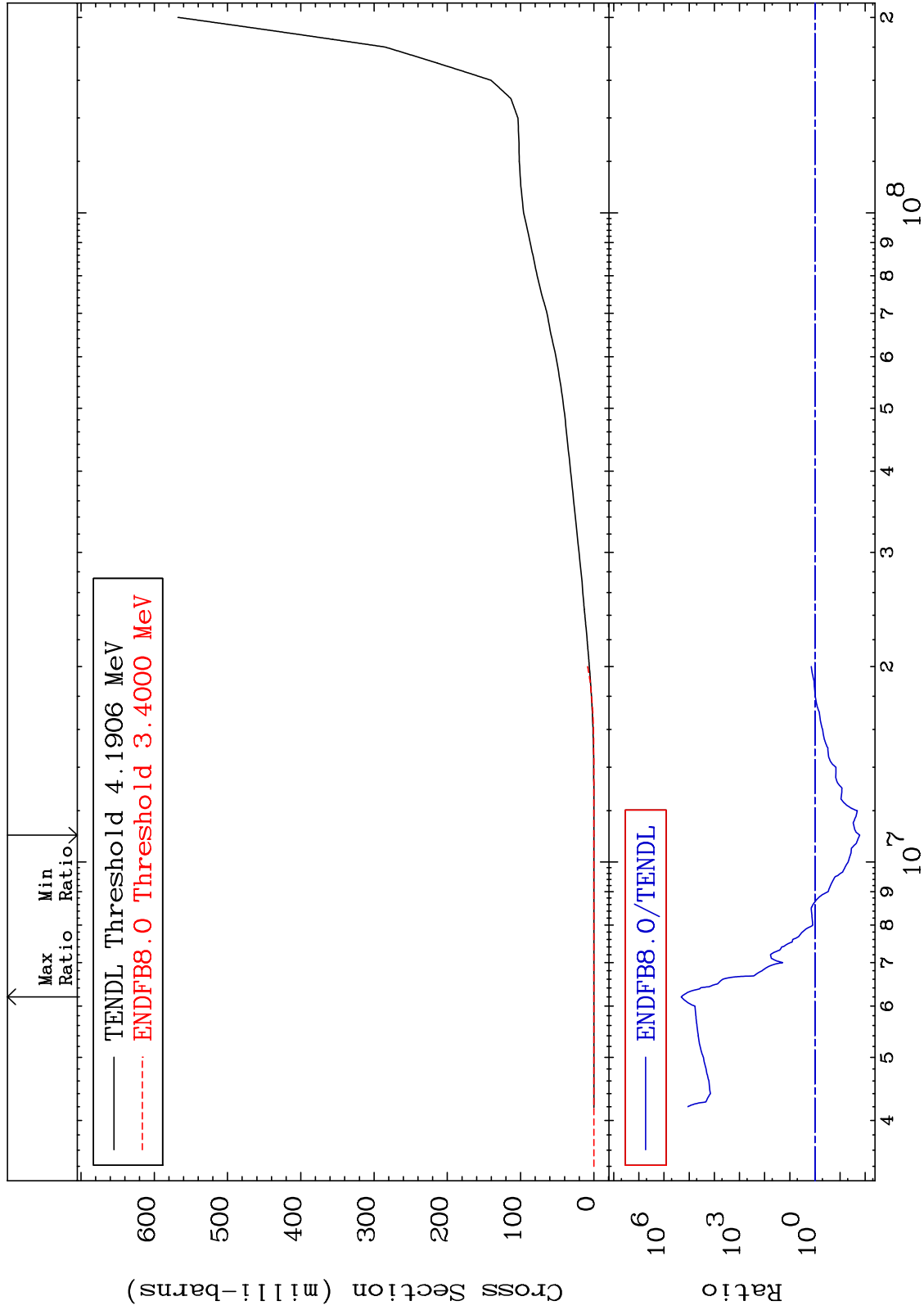
Incident Energy (eV)

69-Tm-171

MAT 6931

Deuterium Production
Cross Section

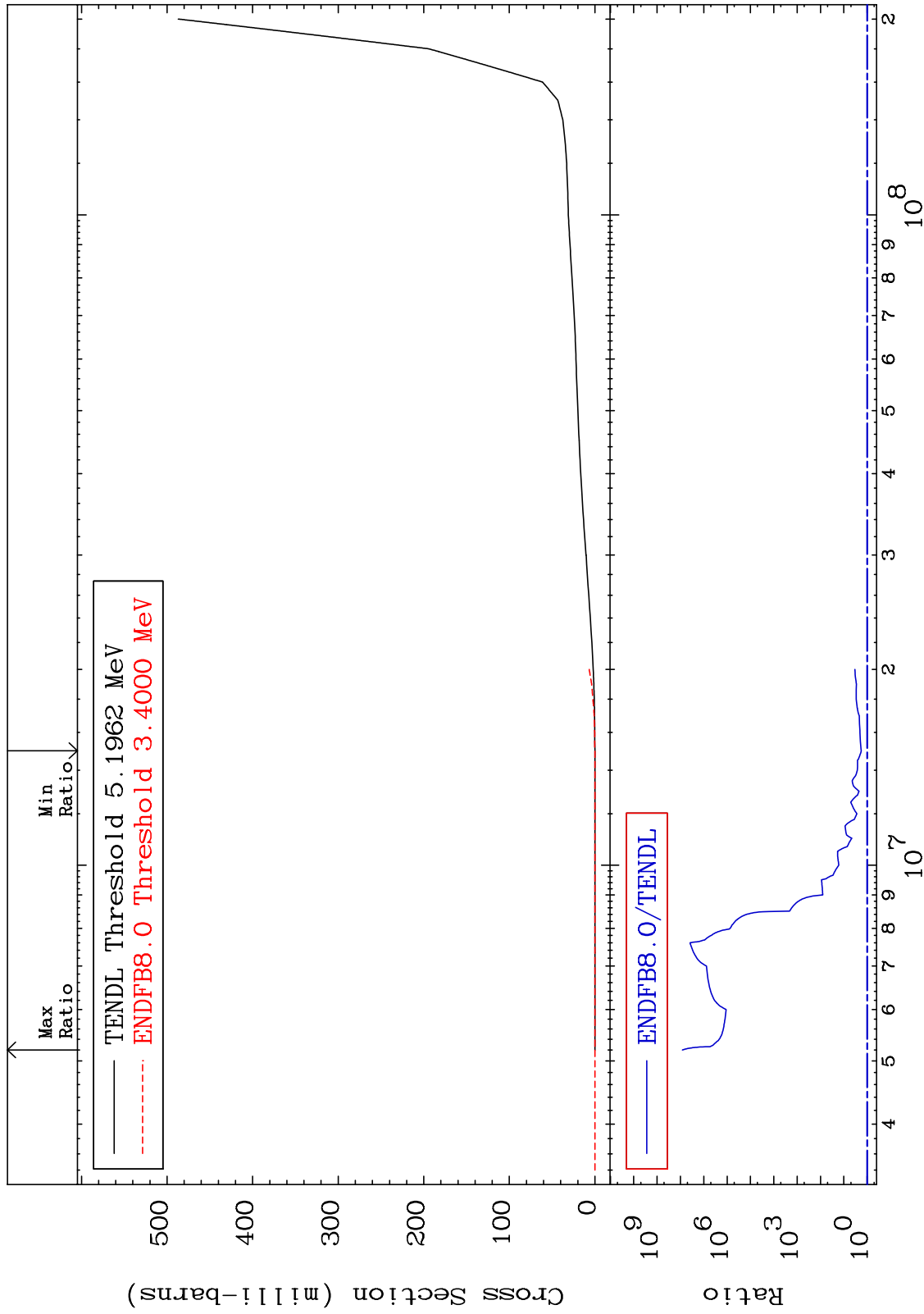
69-Tm-171
-98.35 To 9999. %



MAT 6931

Tritium Production
Cross Section

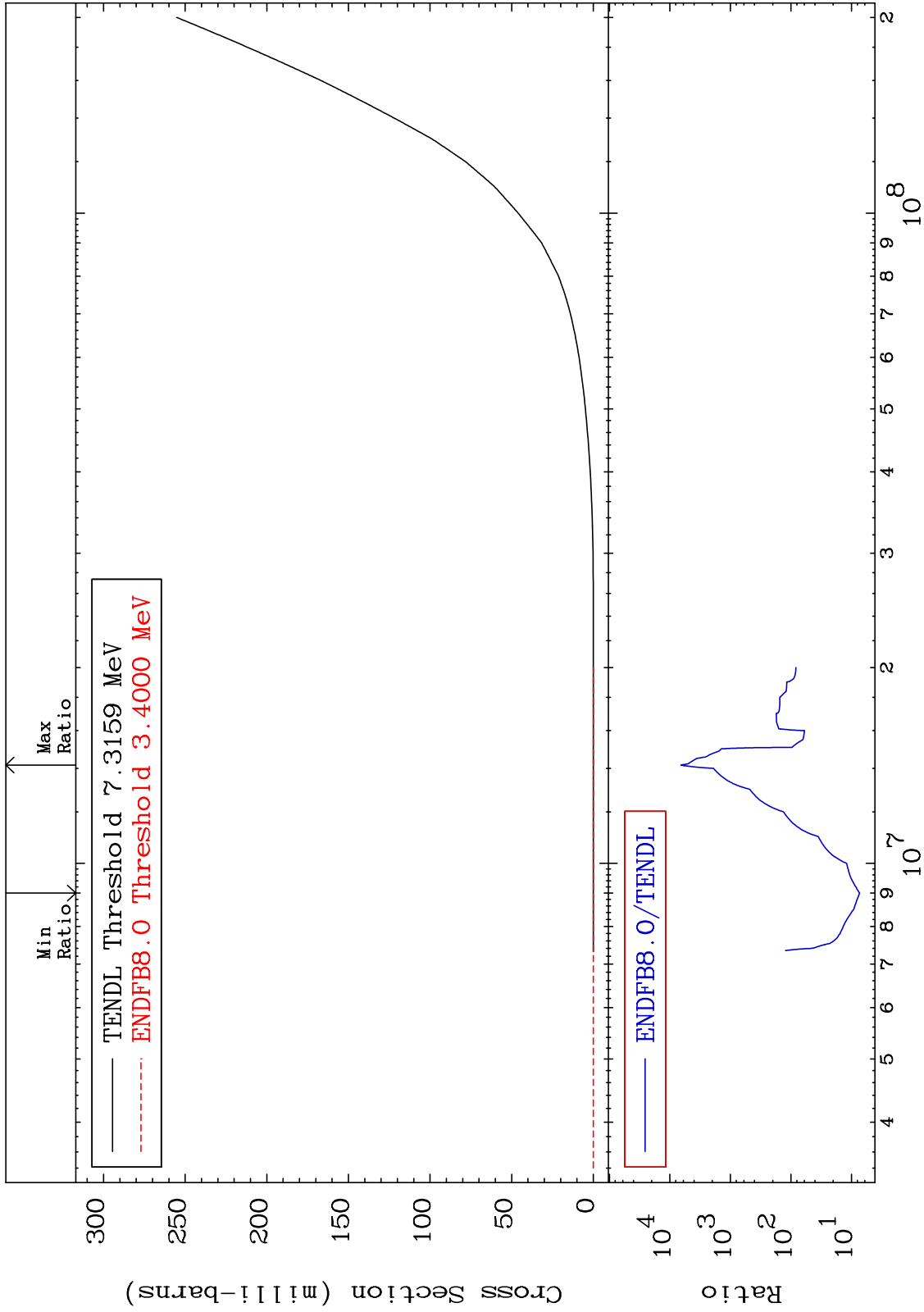
69-Tm-171
79.10 To 9999. %



MAT 6931

He-3 Production
Cross Section

69-Tm-171
632.2 To 9999. %



40

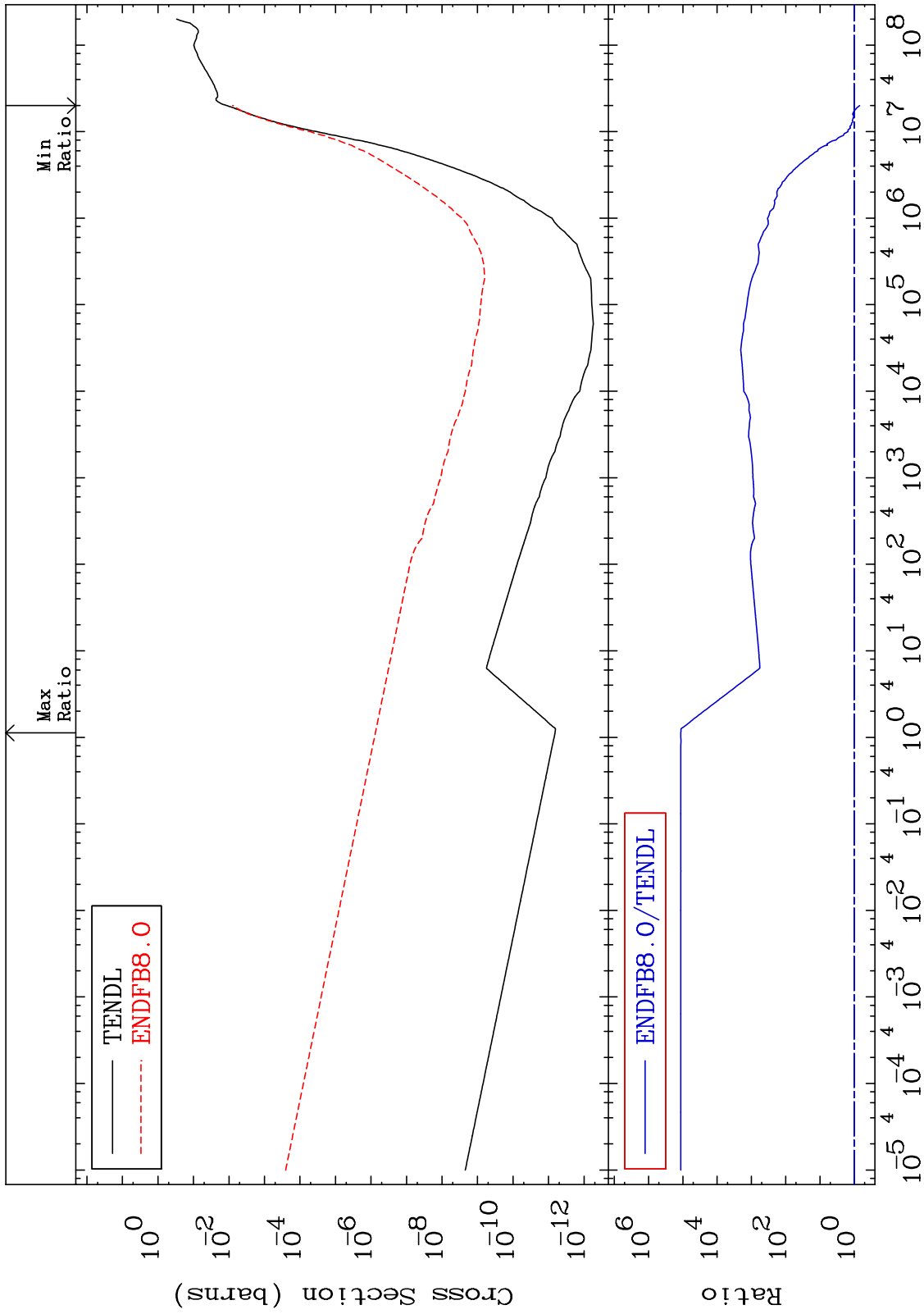
Incident Energy (eV)

69-Tm-171

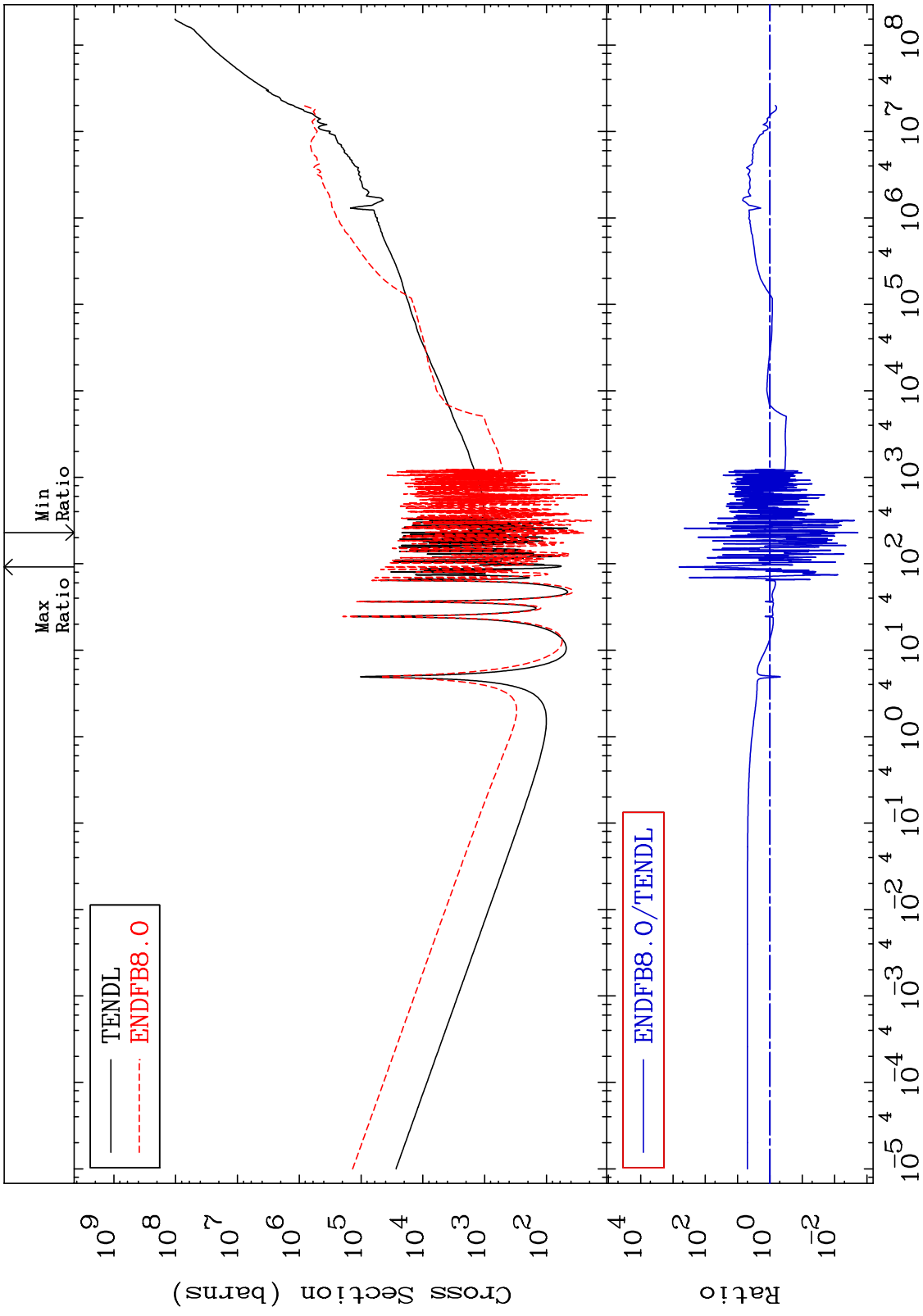
MAT 6931

He-4 Production
Cross Section

69-Tm-171
-30.62 To 9999. %



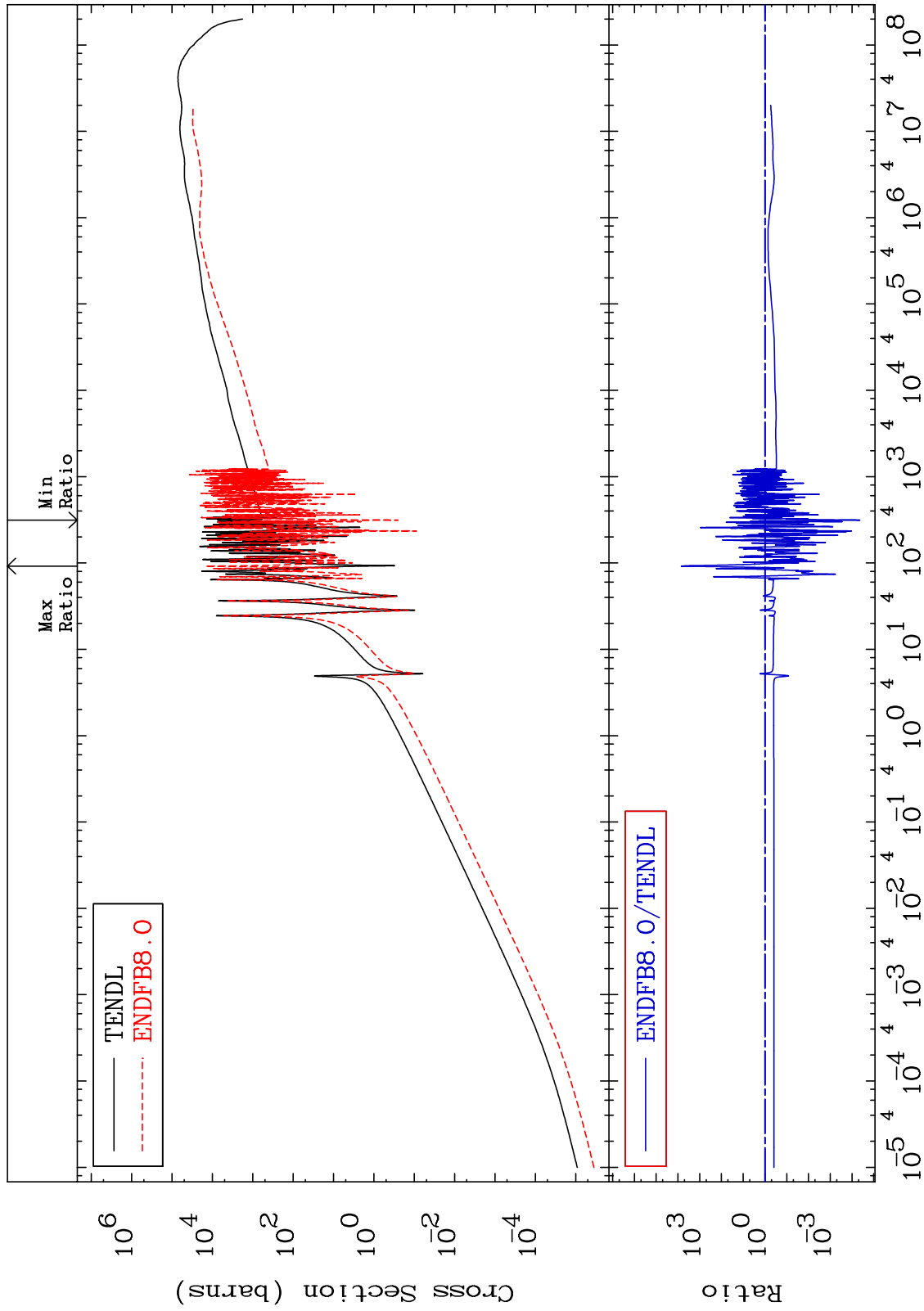
MAT 6931 Kerma total (eV-barns) 69-Tm-171
 Cross Section -99.81 To 9999. %



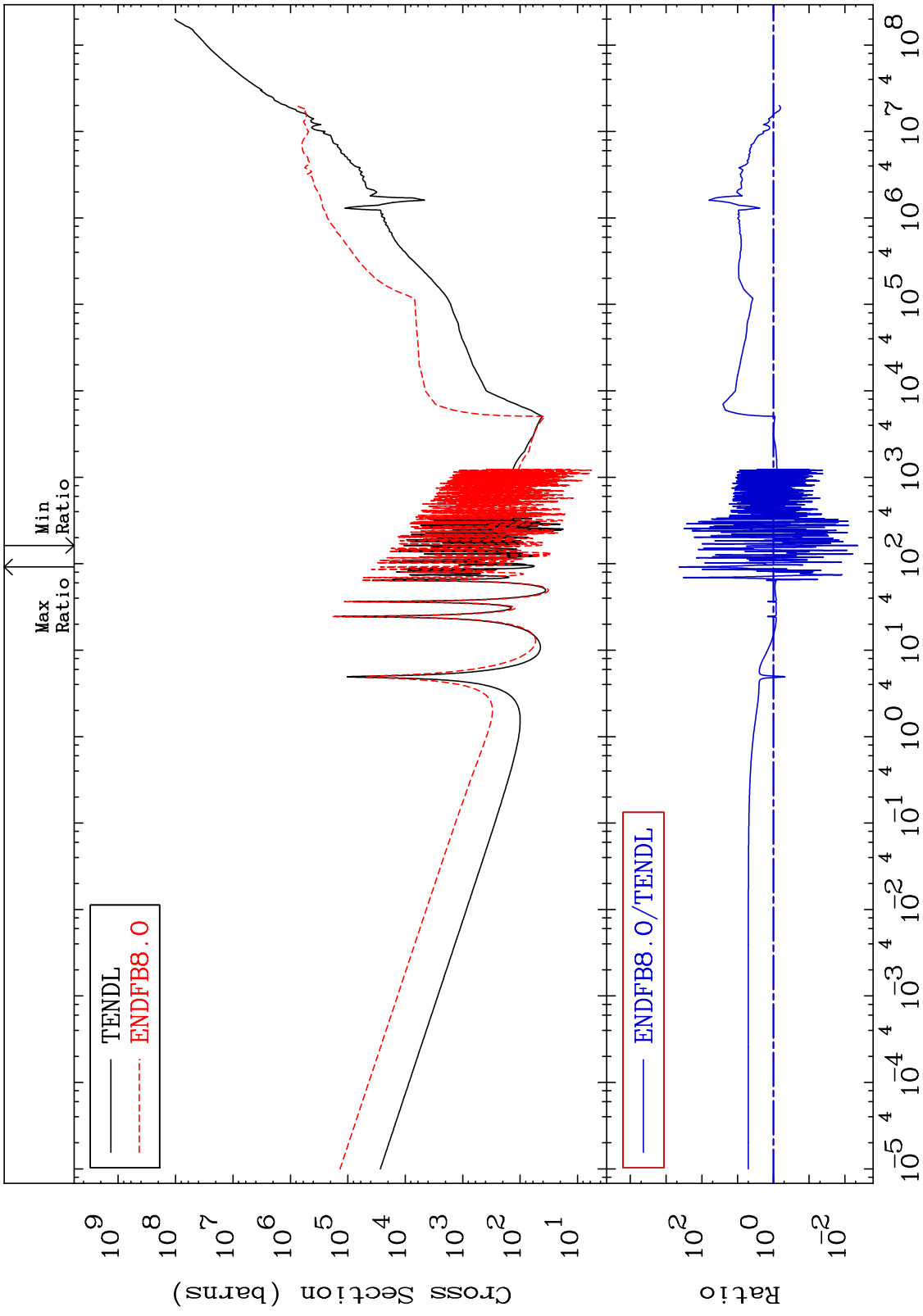
MAT 6931

Kerma elastic
Cross Section

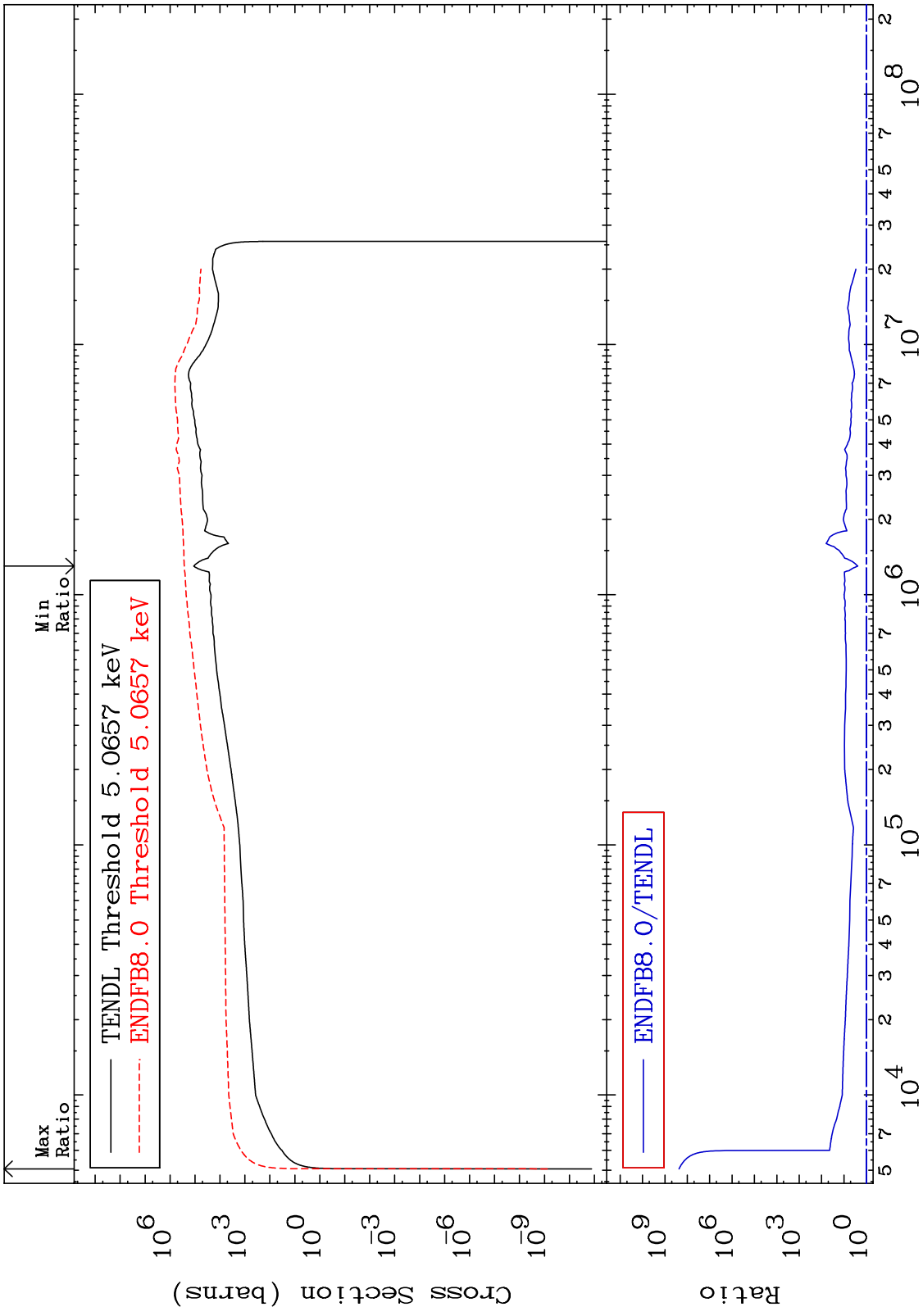
69-Tm-171
-100.0 To 9999. %



MAT 6931 Kerma non-elastic (all but mt2) 69-Tm-171
 -99.57 To 9999. %
 Cross Section



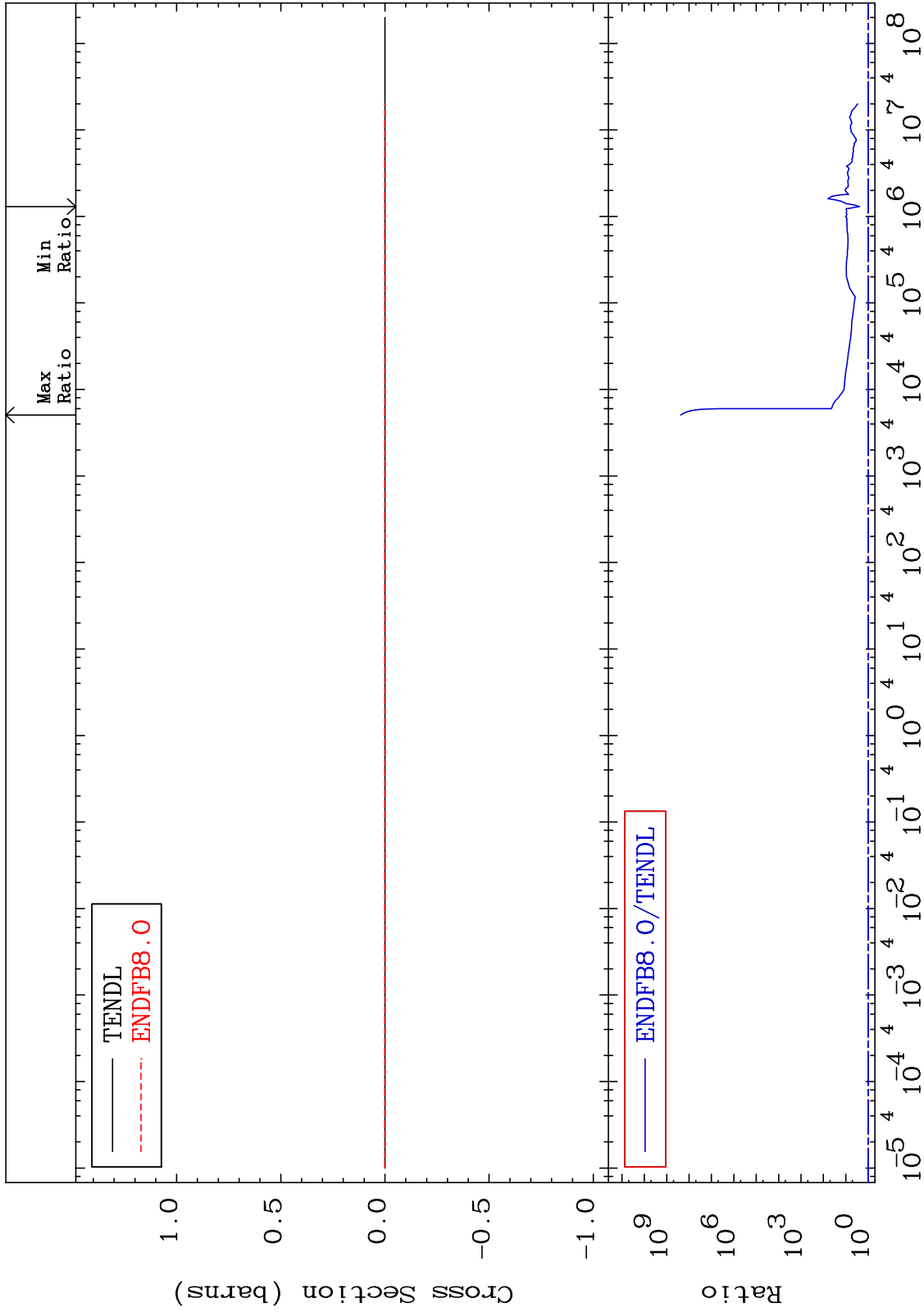
MAT 6931 Kerma inelastic (mt51-91) 69-Tm-171
138.6 To 9999. %
Cross Section



MAT 6931

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

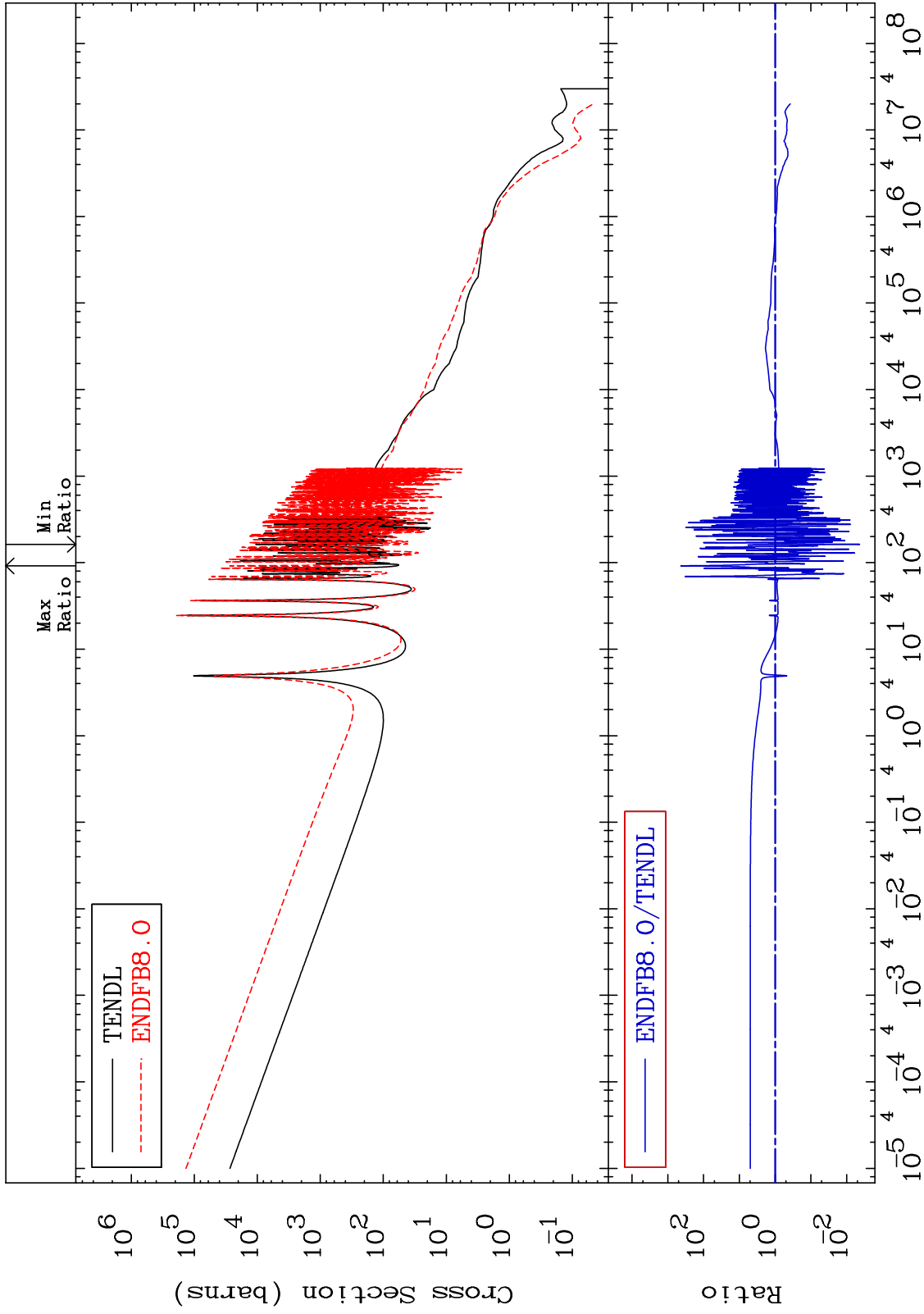
69-Tm-171
138.6 To 9999. %



MAT 6931

Kerma capture (mt102)
Cross Section

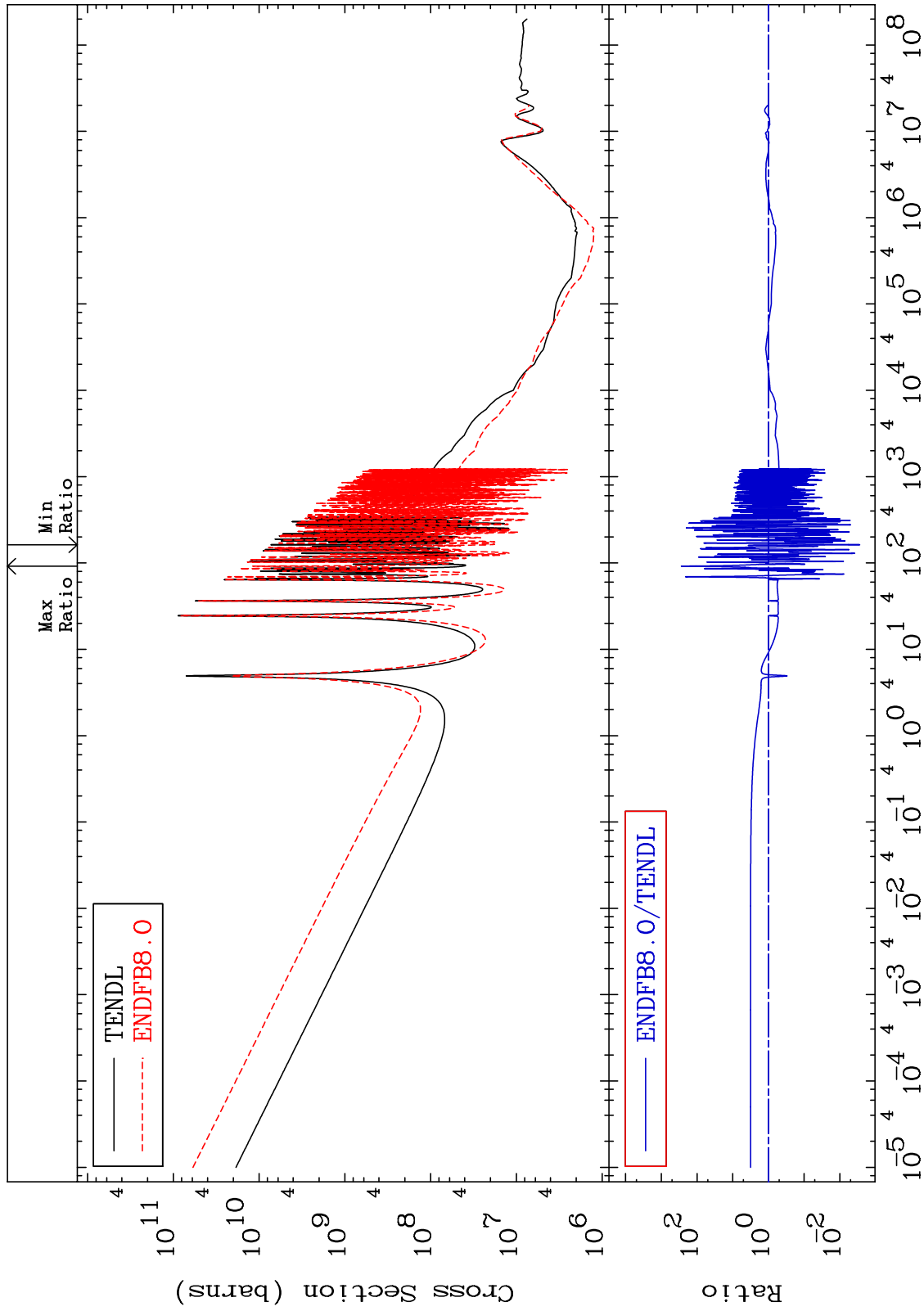
69-Tm-171
-99.57 To 9999. %



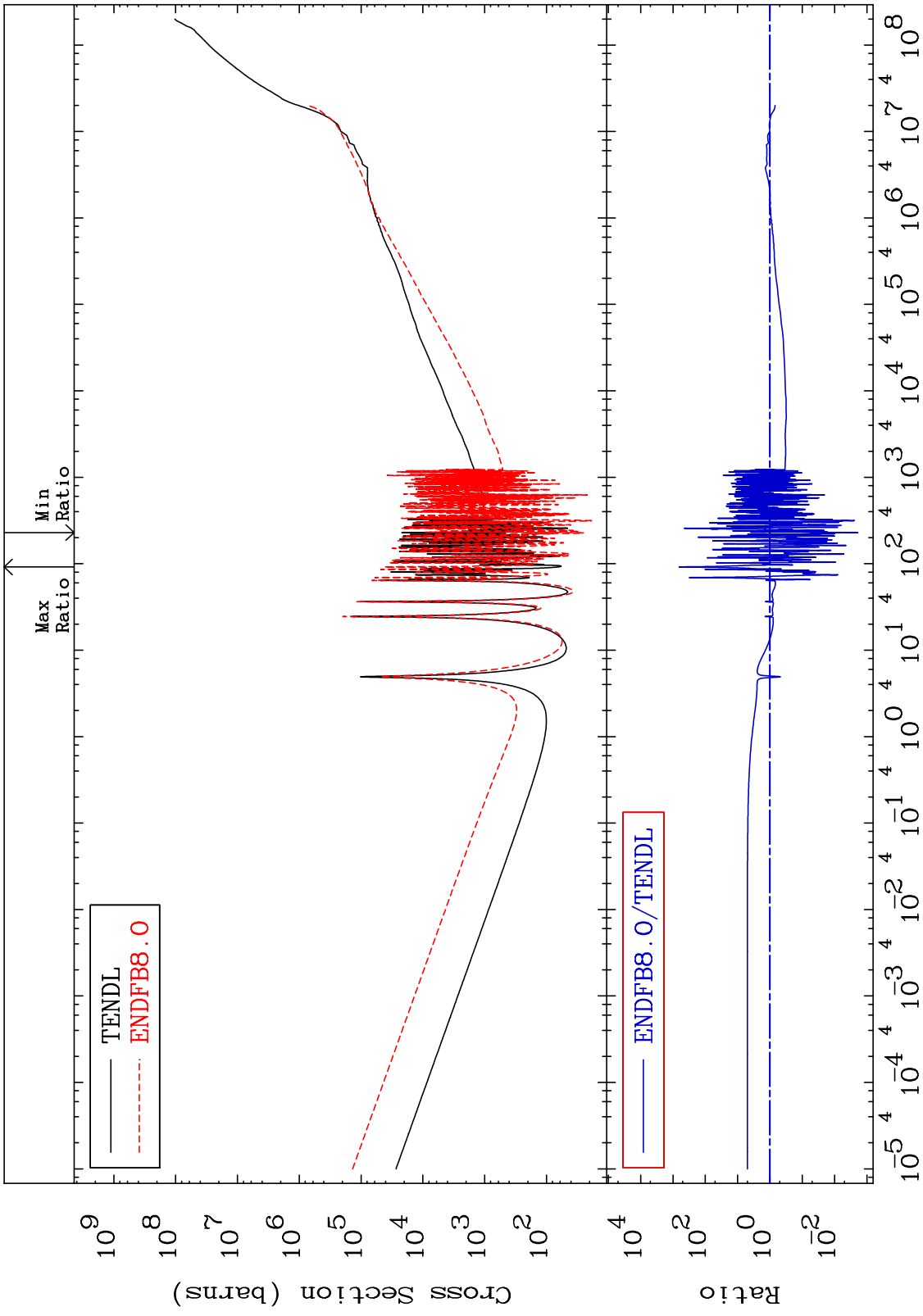
MAT 6931

Total photon (eV-barns)
Cross Section

69-Tm-171
-99.72 To 9999. %



MAT 6931 Total kinematic kerma (high limit) 69-Tm-171
 Cross Section -99.81 To 9999. %



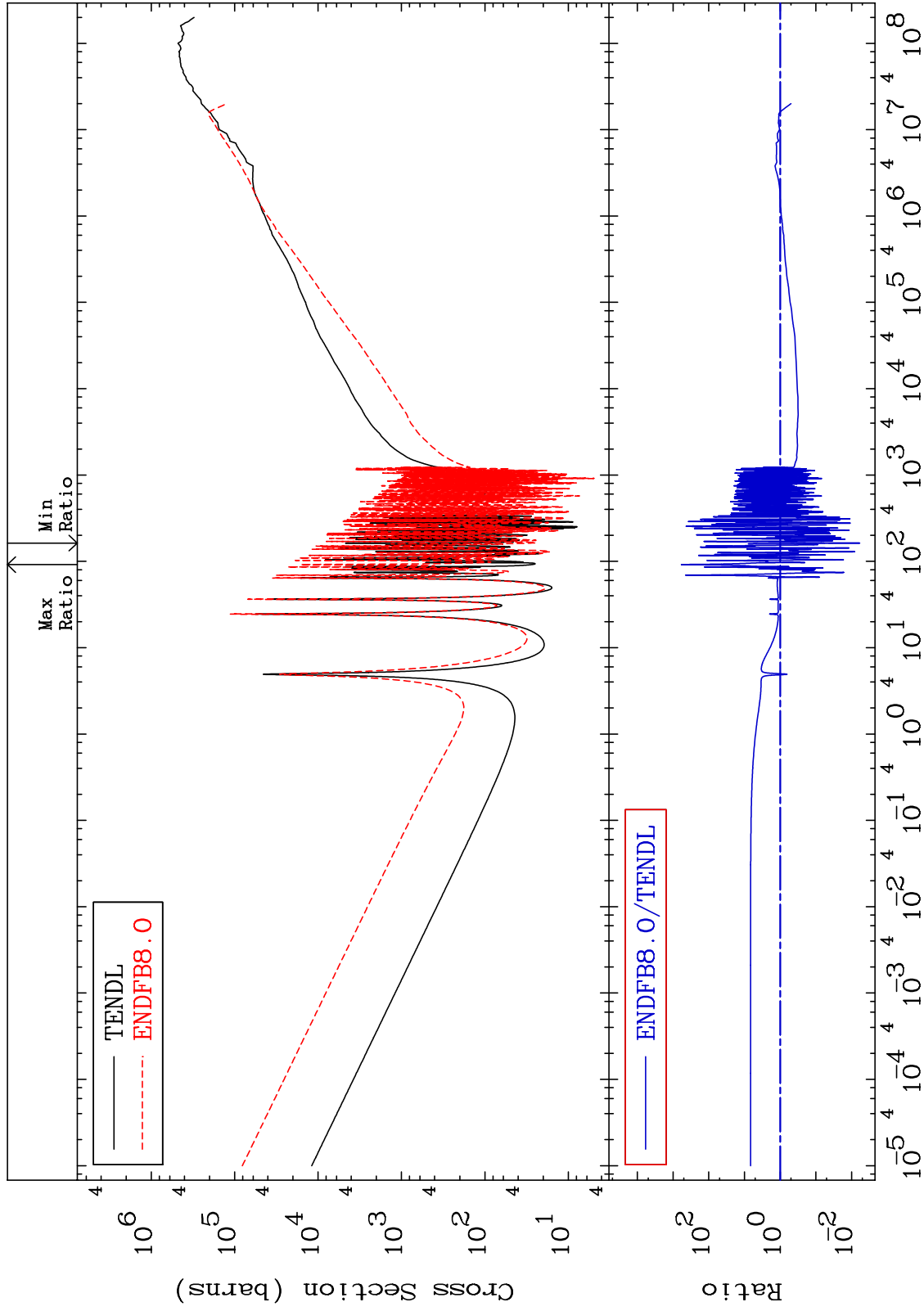
MAT 6931

Dpa total (eV-barns)

69-Tm-171

-99.41 To 9999. %

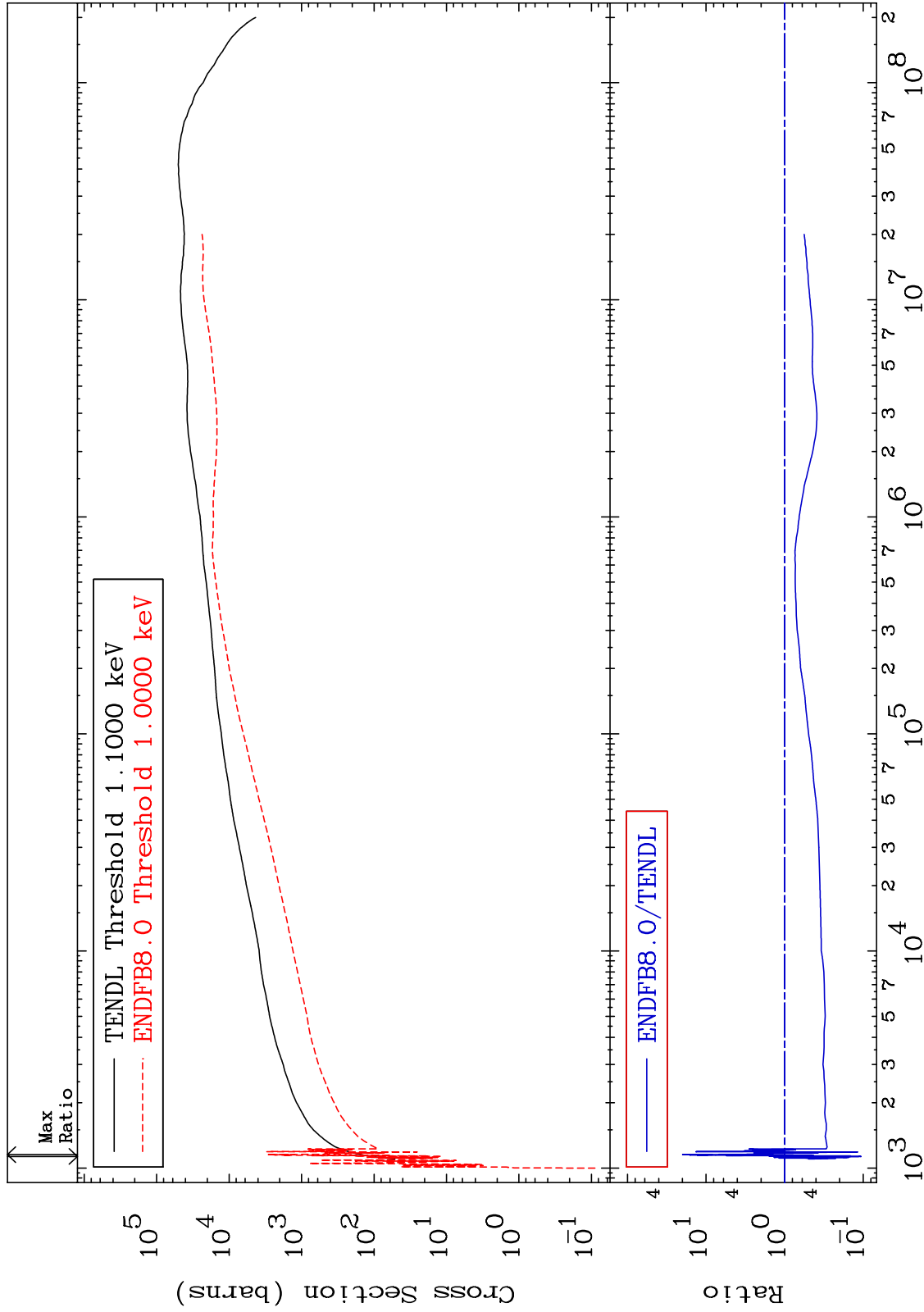
Cross Section

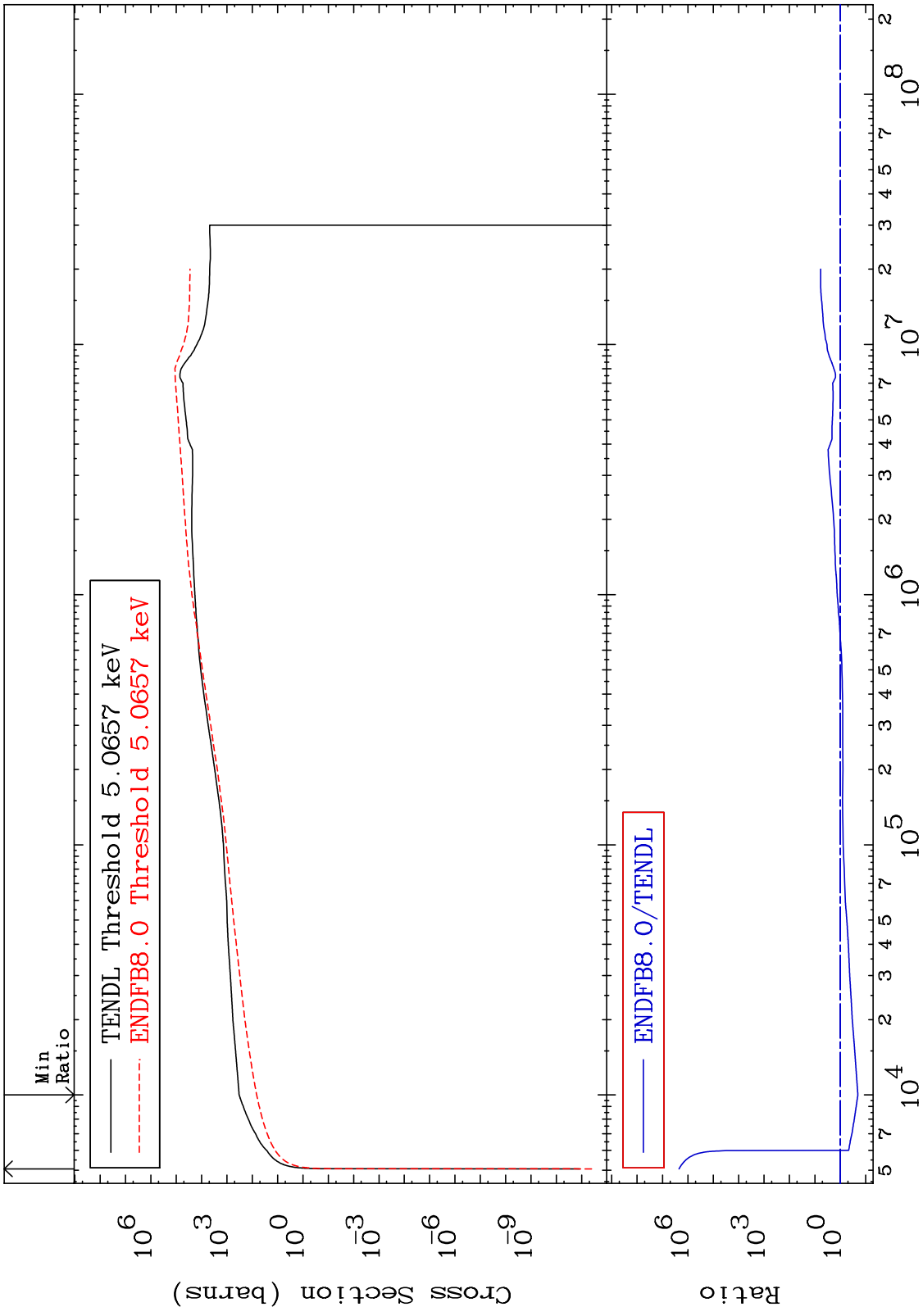


MAT 6931

Dpa elastic (mt2)
Cross Section

69-Tm-171
-89.39 To 1896. %





MAT 6931 Dpa disappearance (mt102 -120) 69-Tm-171
 Cross Section -99.41 To 9999. %

