

Program Complot
(Version 2021-1)

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

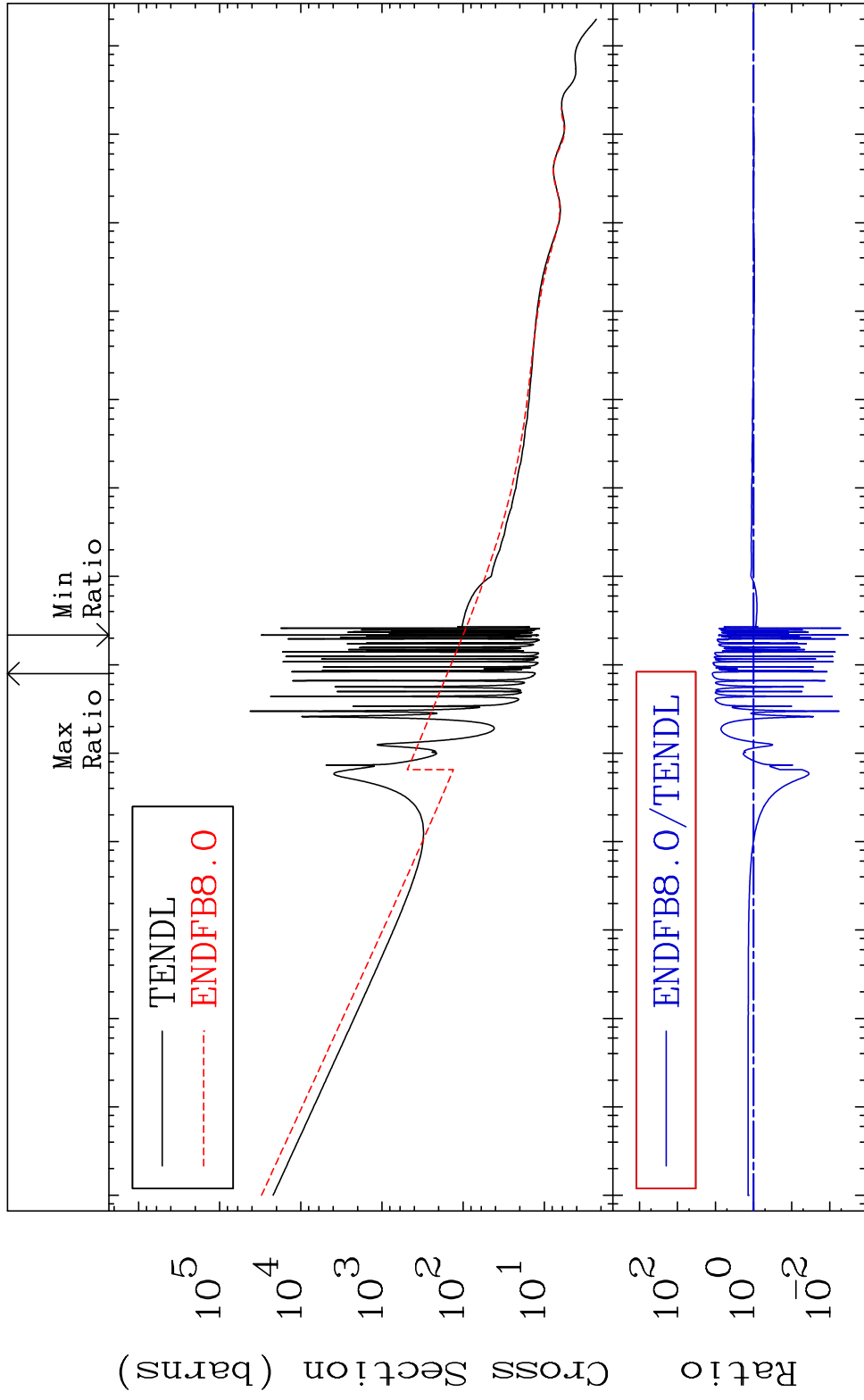
Press Mouse Button to Start

MAT 9025

Total

90-Th-227

Cross Section -99.67 To 1115. %



10⁵ 10⁴ 10³ 10² 10¹ 10⁰ 10⁻¹ 10⁻² 10⁻³ 10⁻⁴ 10⁻⁵

10⁸ 10⁷ 10⁶ 10⁵ 10⁴ 10³ 10² 10¹ 10⁰ 10⁻¹ 10⁻² 10⁻³ 10⁻⁴ 10⁻⁵

1 Incident Energy (eV) 90-Th-227

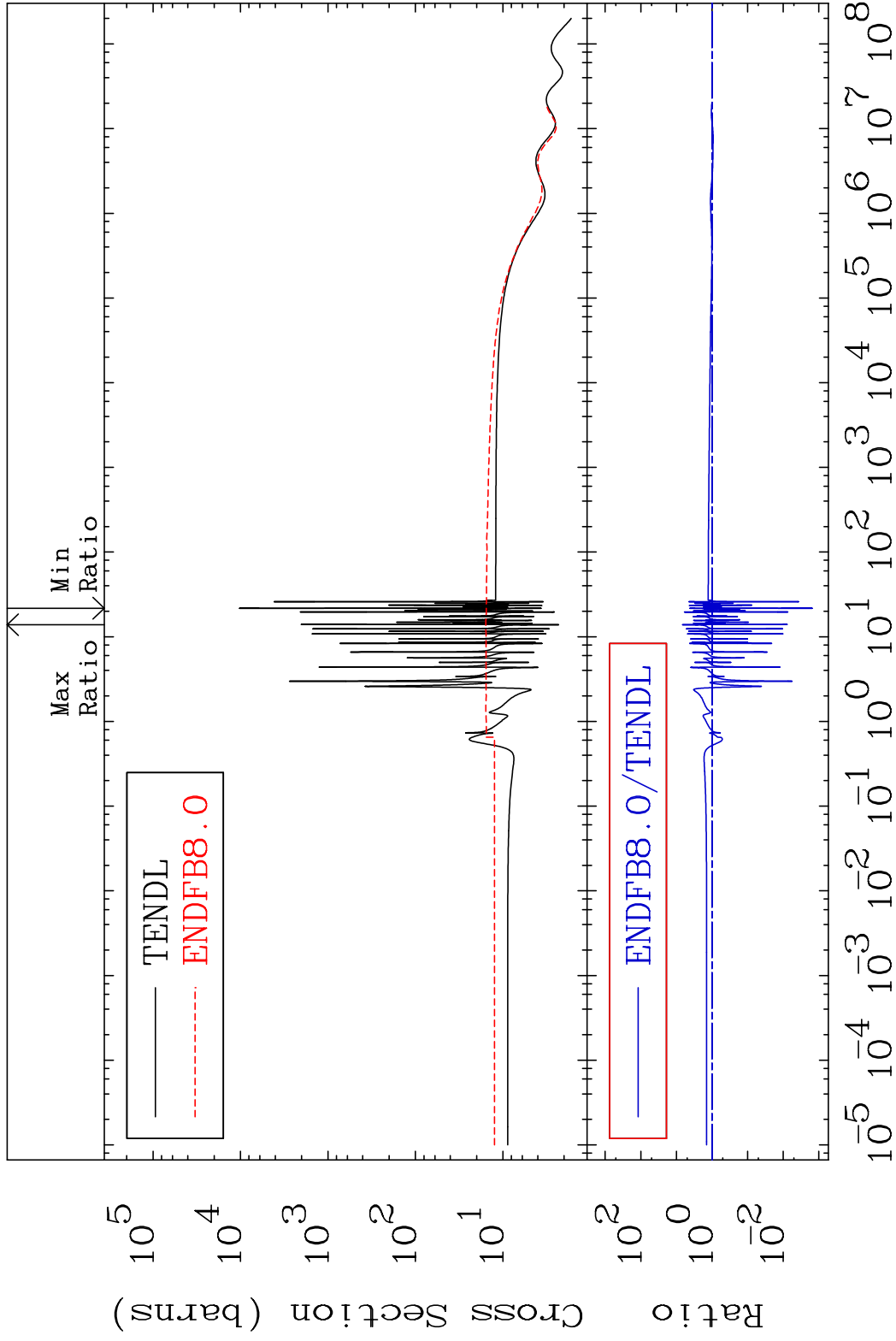
MAT 9025

Elastic

90-Th-227

Cross Section

-99.85 To 580.3 %



2

Incident Energy (eV)

90-Th-227

MAT 9025

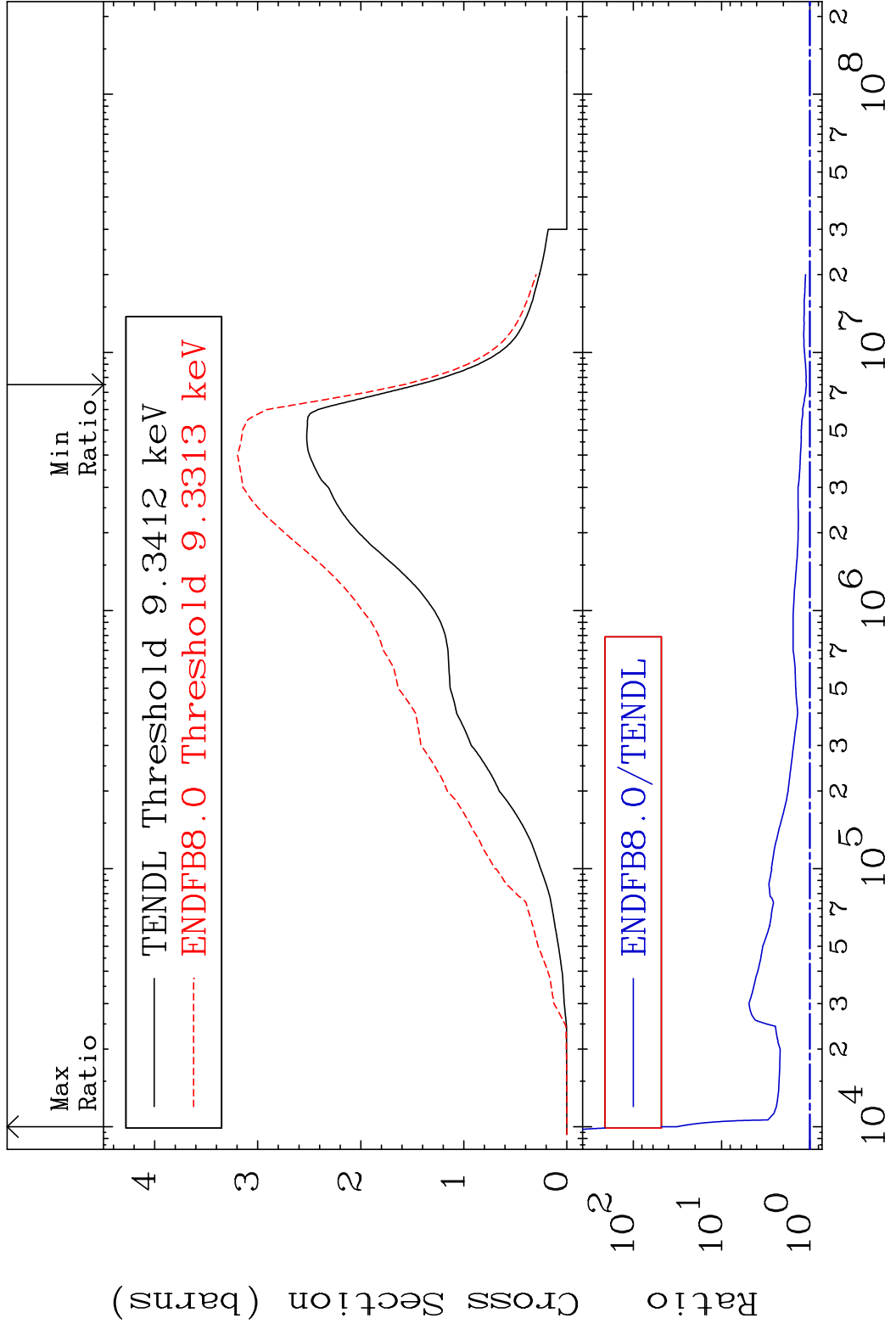
Inelastic

90-Th-227

Cross Section

9.394

To 3087. %



3

Incident Energy (eV)

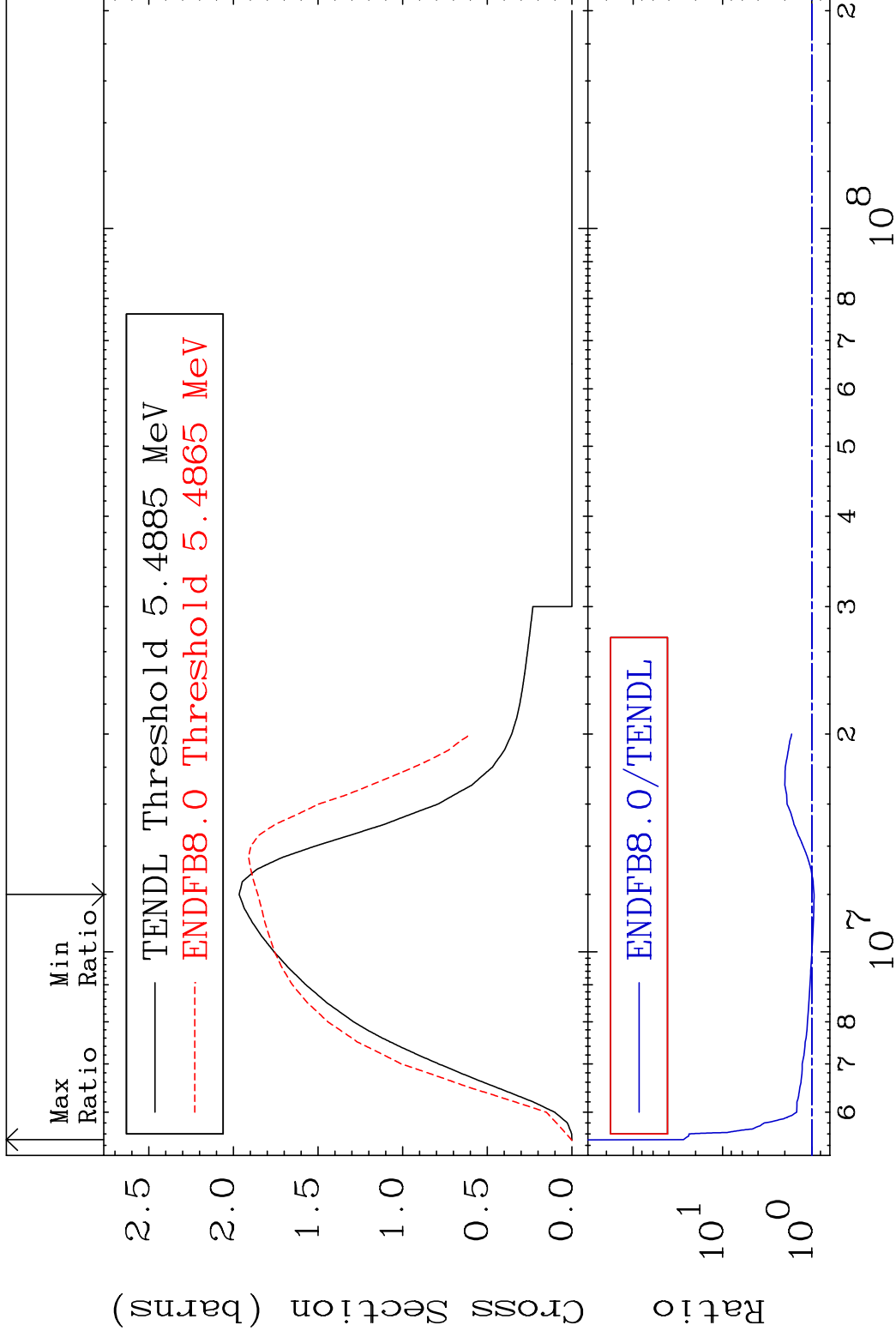
90-Th-227

MAT 9025

(n,2n)

90-Th-227

Cross Section -5.625 To 2640. %



4

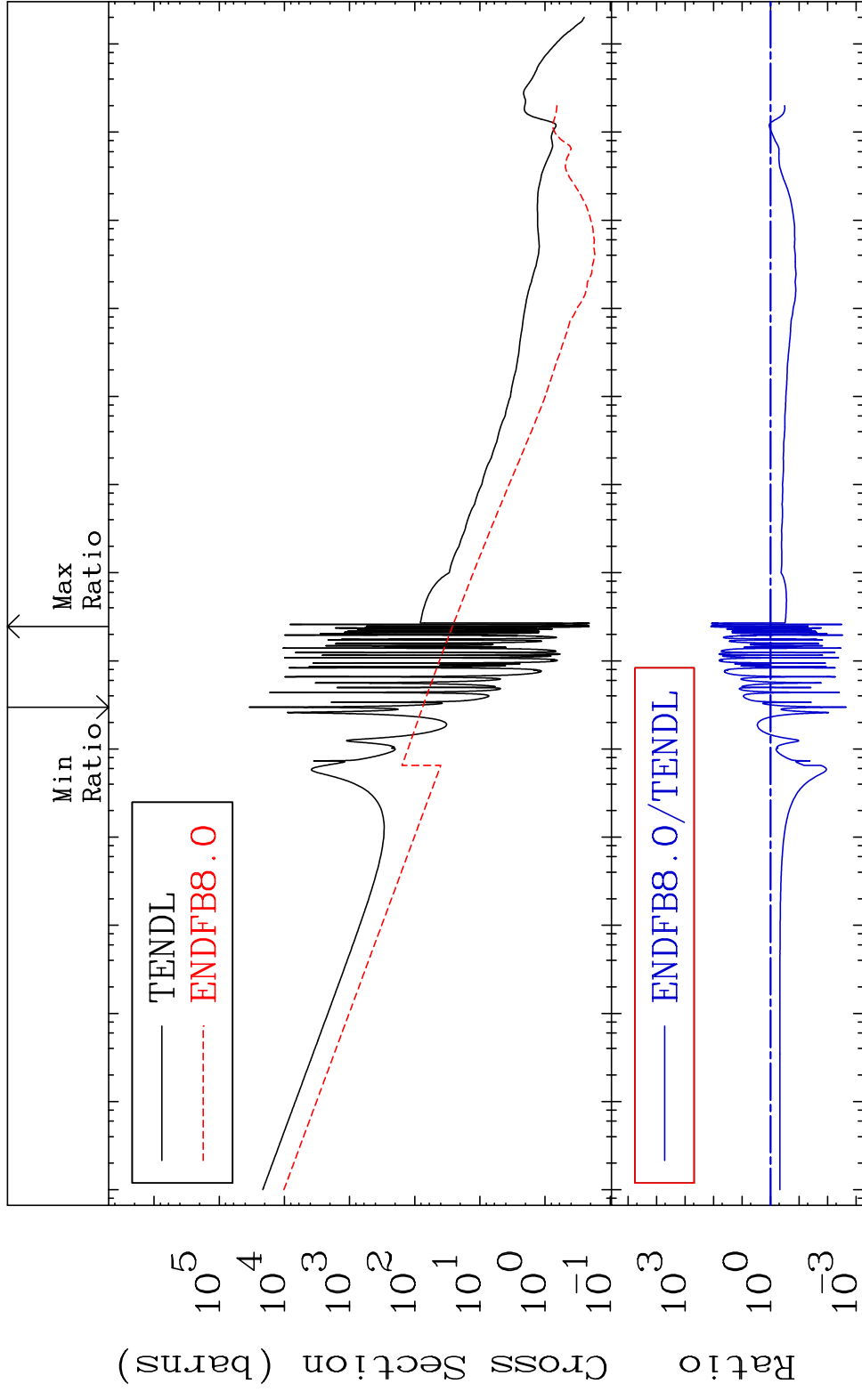
Incident Energy (eV)

90-Th-227

MAT 9025

Fission Cross Section -99.78 To 9999. %

90-Th-227

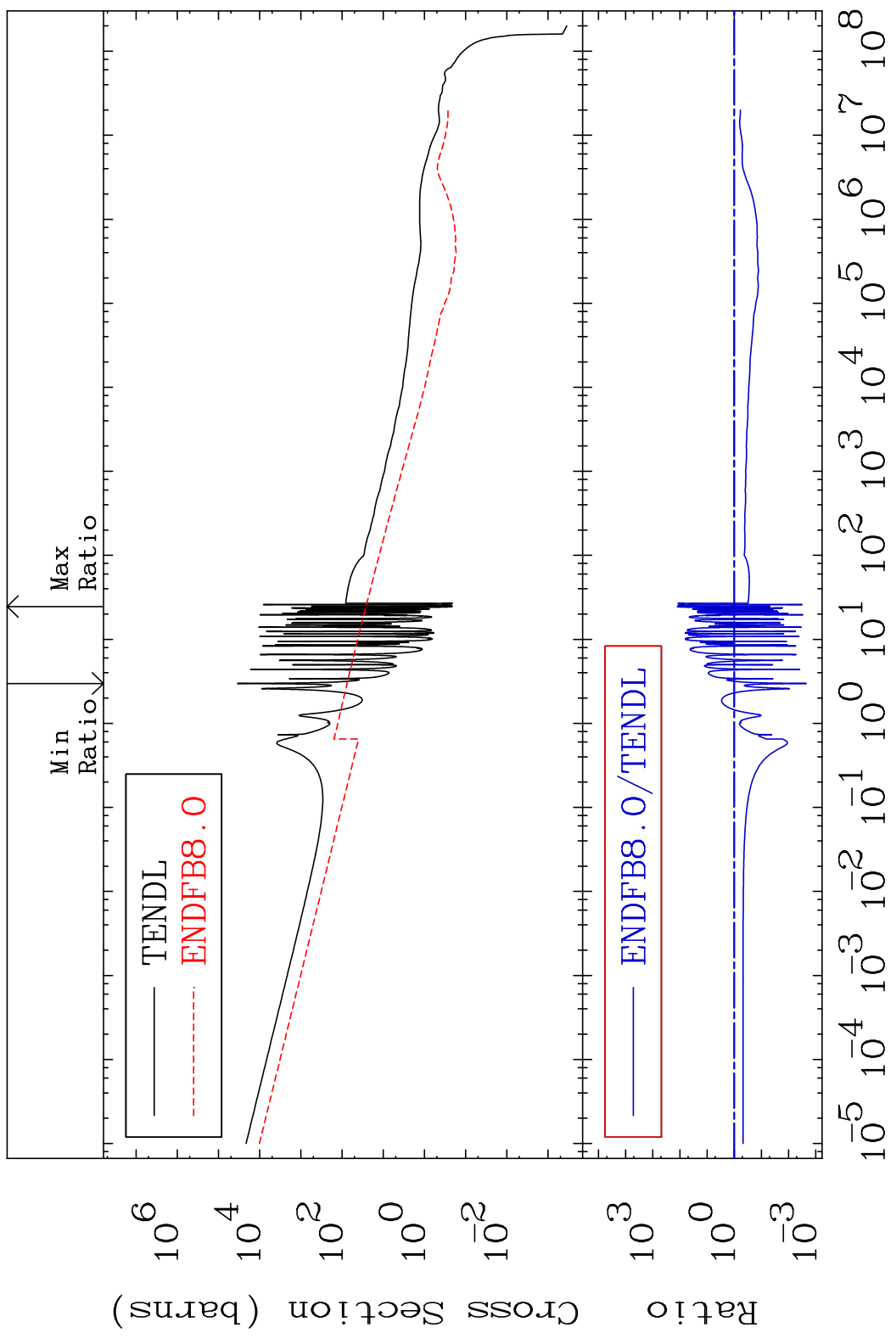


MAT 9025

(n,f) First Chance

90-Th-227

Cross Section -99.78 To 9999. %

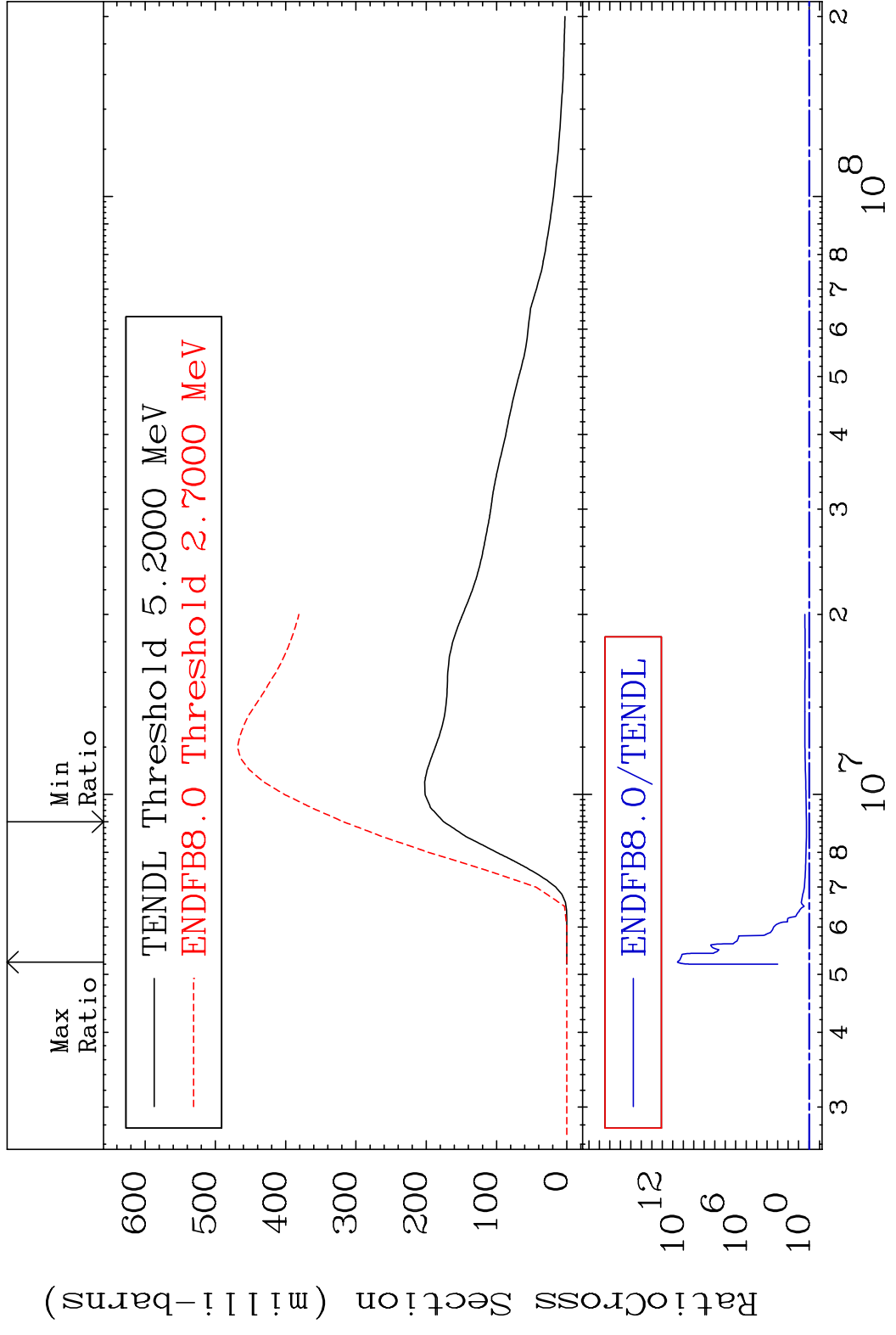


7

Incident Energy (eV)

90-Th-227

MAT 9025 (n,nf) Second Chance 90-Th-227
 Cross Section 81.39 To 9999. %

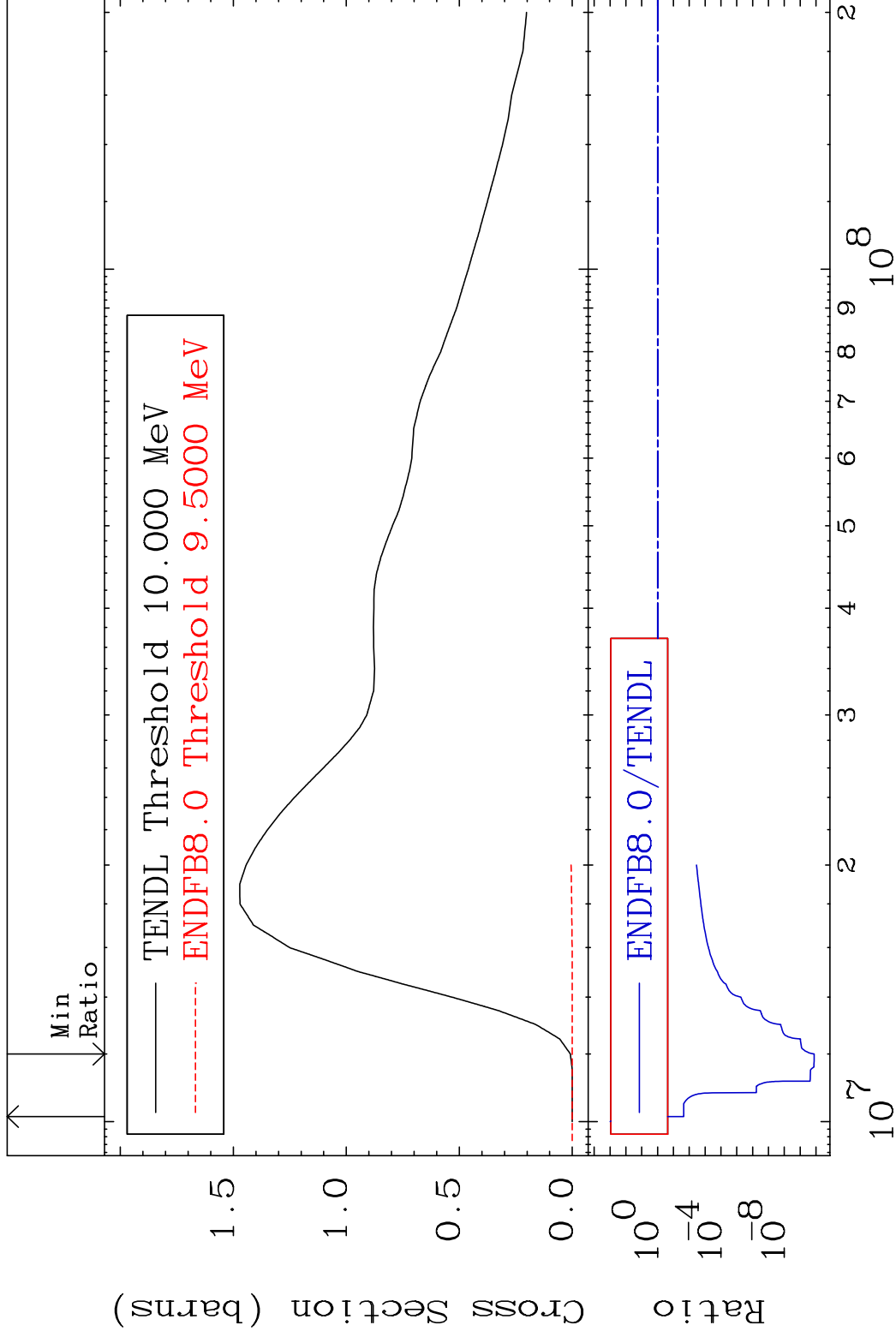


MAT 9025

(n,2nf) Third Chance

90-Th-227

Cross Section -100.0 To -97.75%



9

Incident Energy (eV)

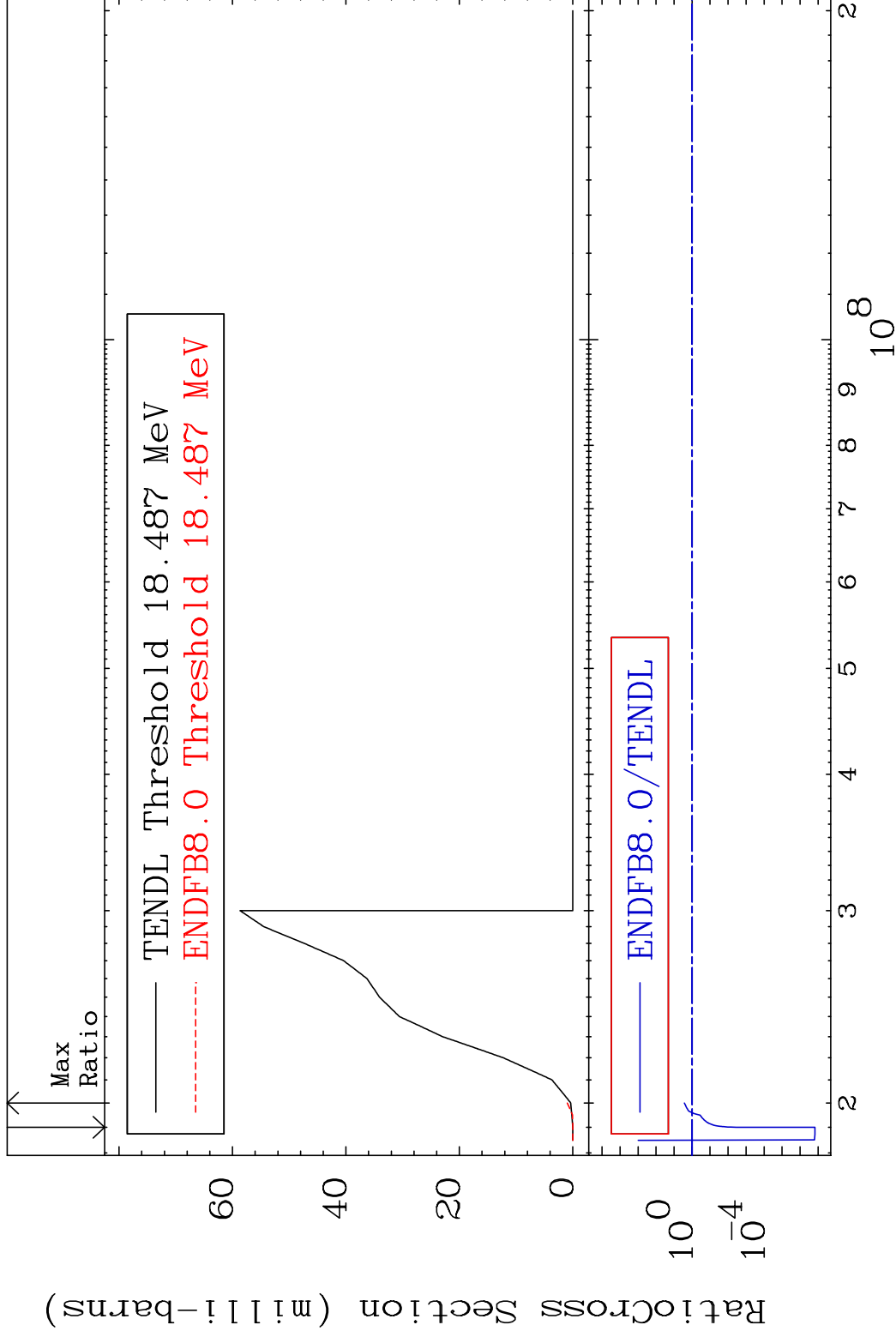
90-Th-227

MAT 9025

(n,4n)

90-Th-227

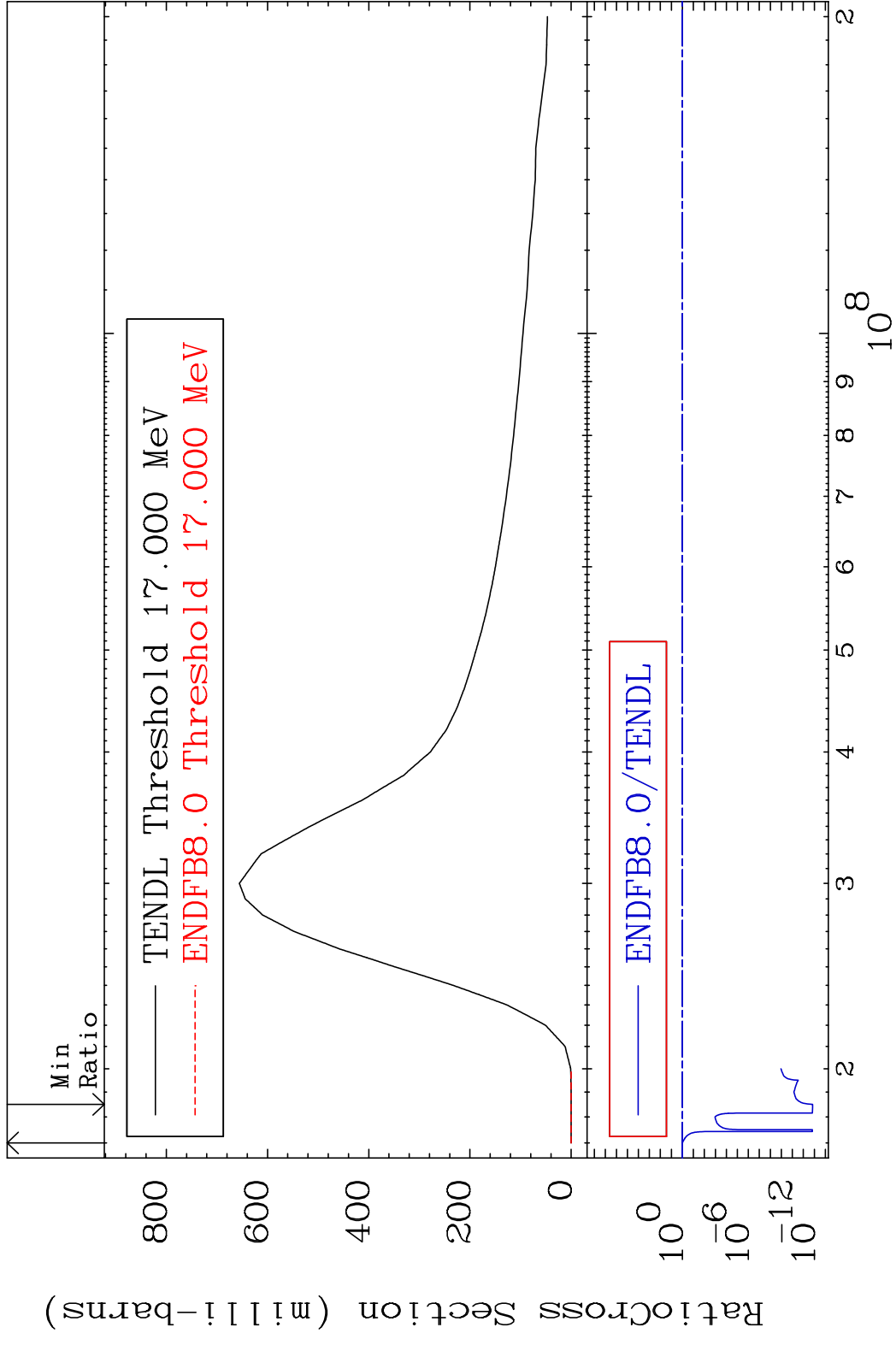
Cross Section -100.0 To 169.4 %



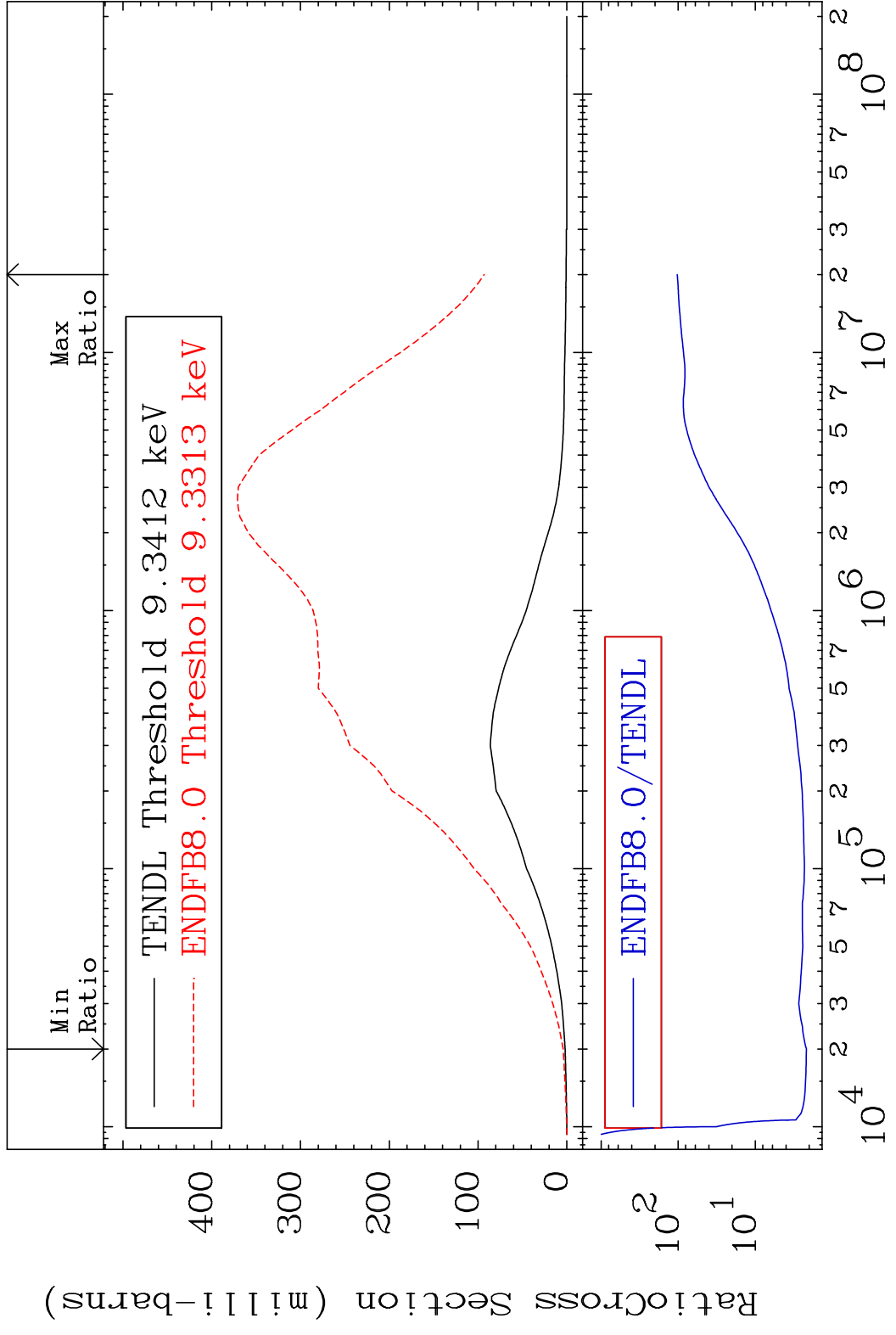
10

90-Th-227

MAT 9025 (n,3nf) Fourth Chance 90-Th-227
 Cross Section -100.0 To 0.000 %

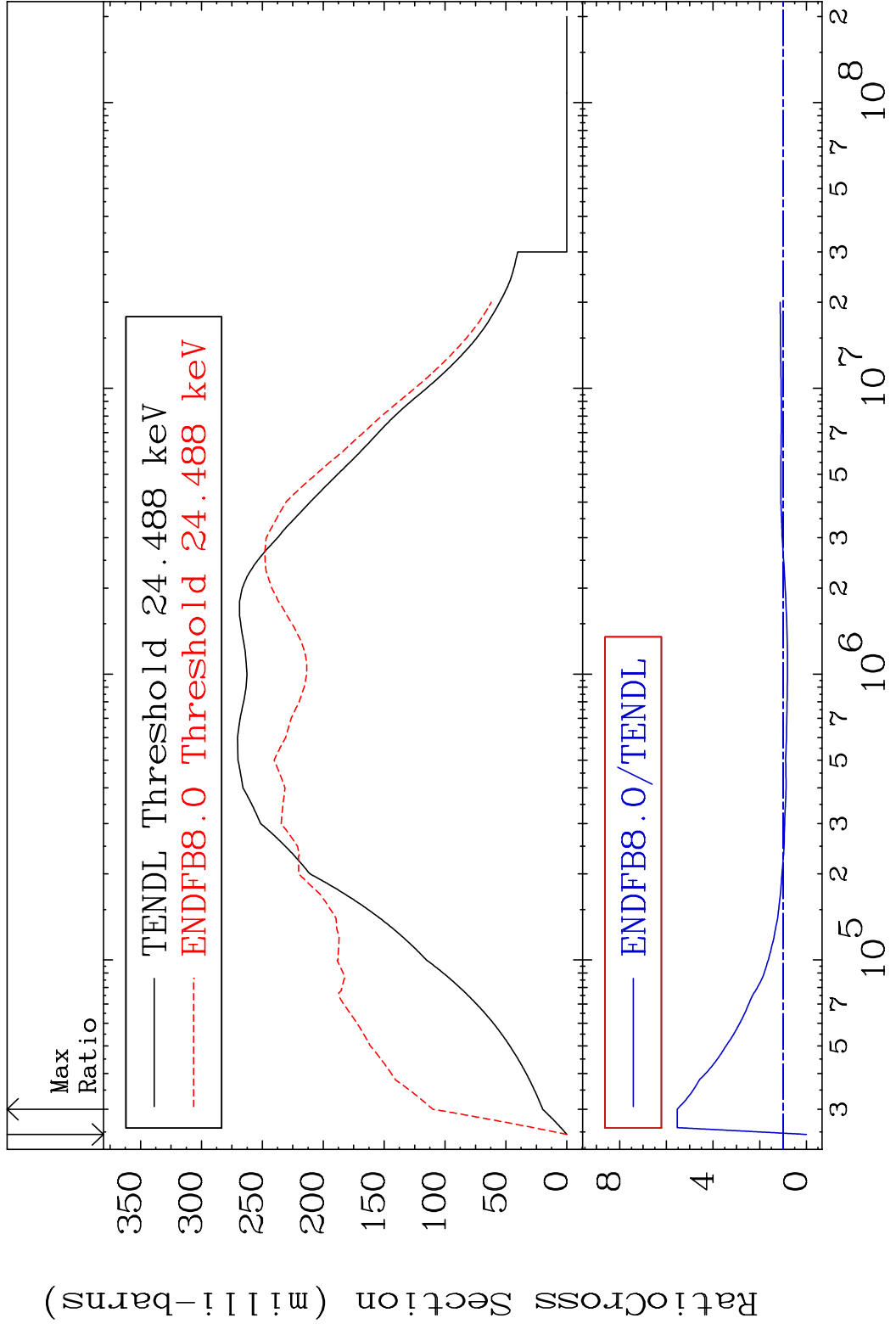


MAT 9025 MT= 51 (n, n') Level 90-Th-227
 Cross Section 117.3 To 9999. %

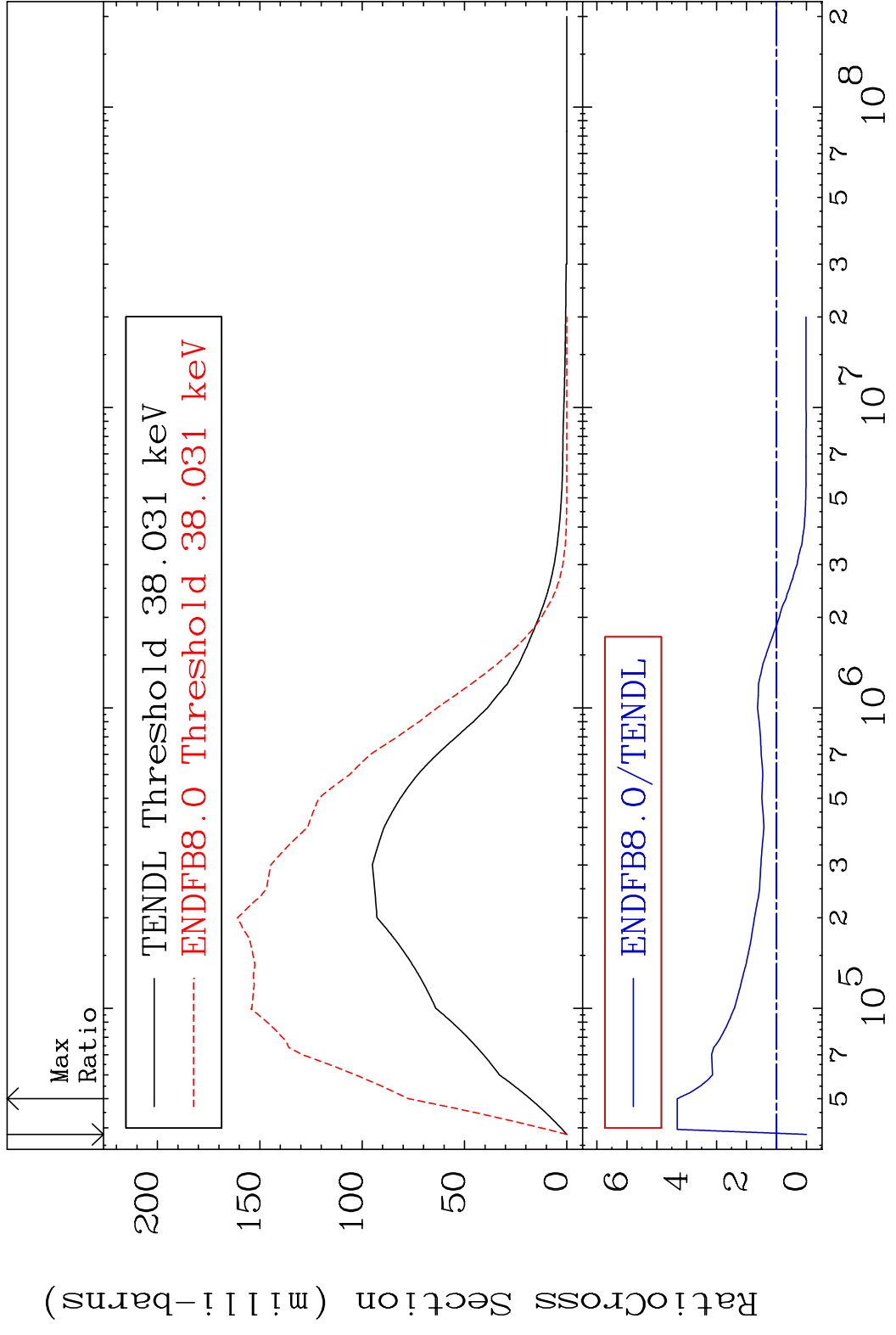


12 Incident Energy (eV) 90-Th-227

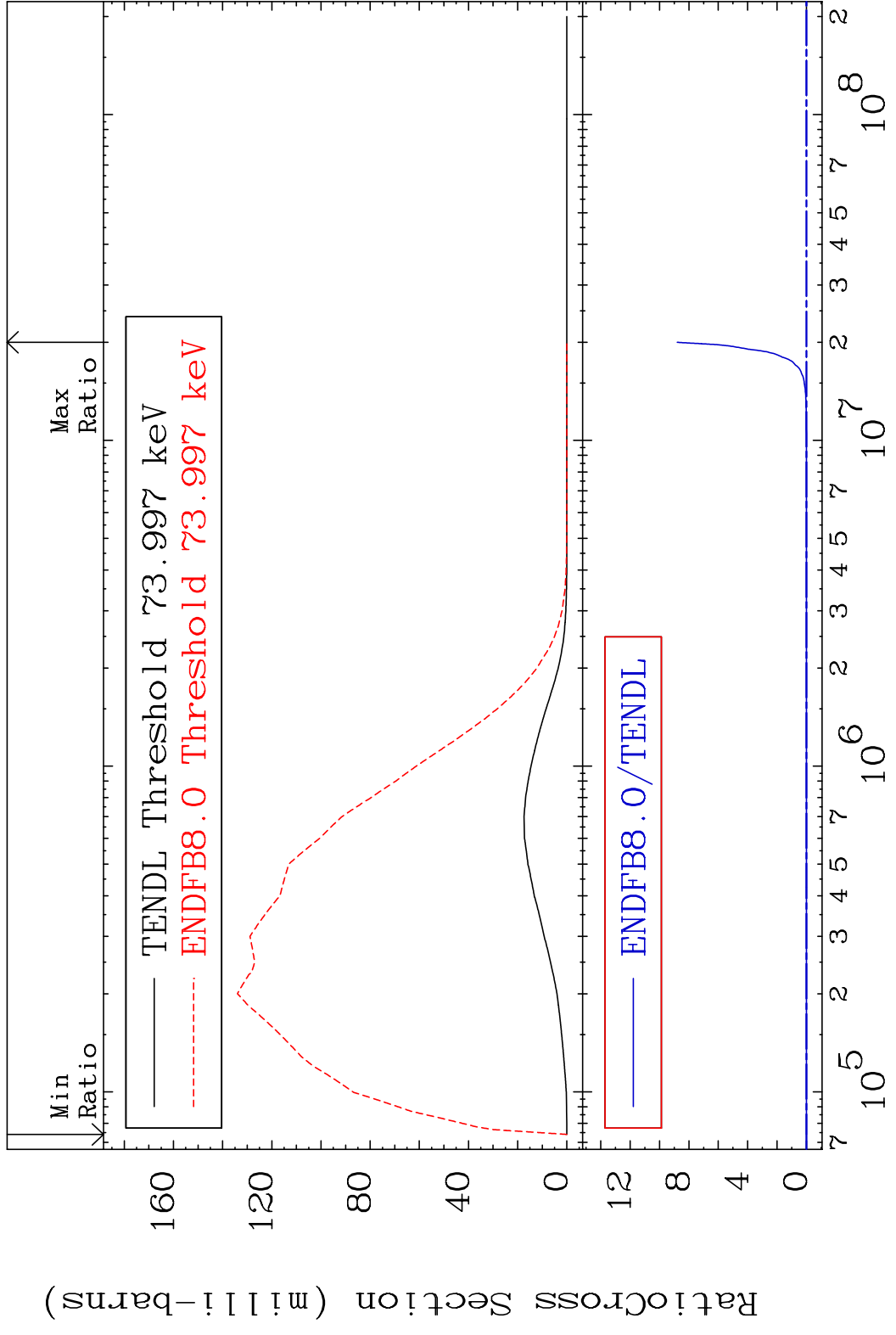
MAT 9025 MT= 52 (n, n') Level 90-Th-227
 Cross Section -100.0 To 453.9 %



MAT 9025 MT= 53 (n, n') Level 90-Th-227
 Cross Section -100.0 To 331.8 %

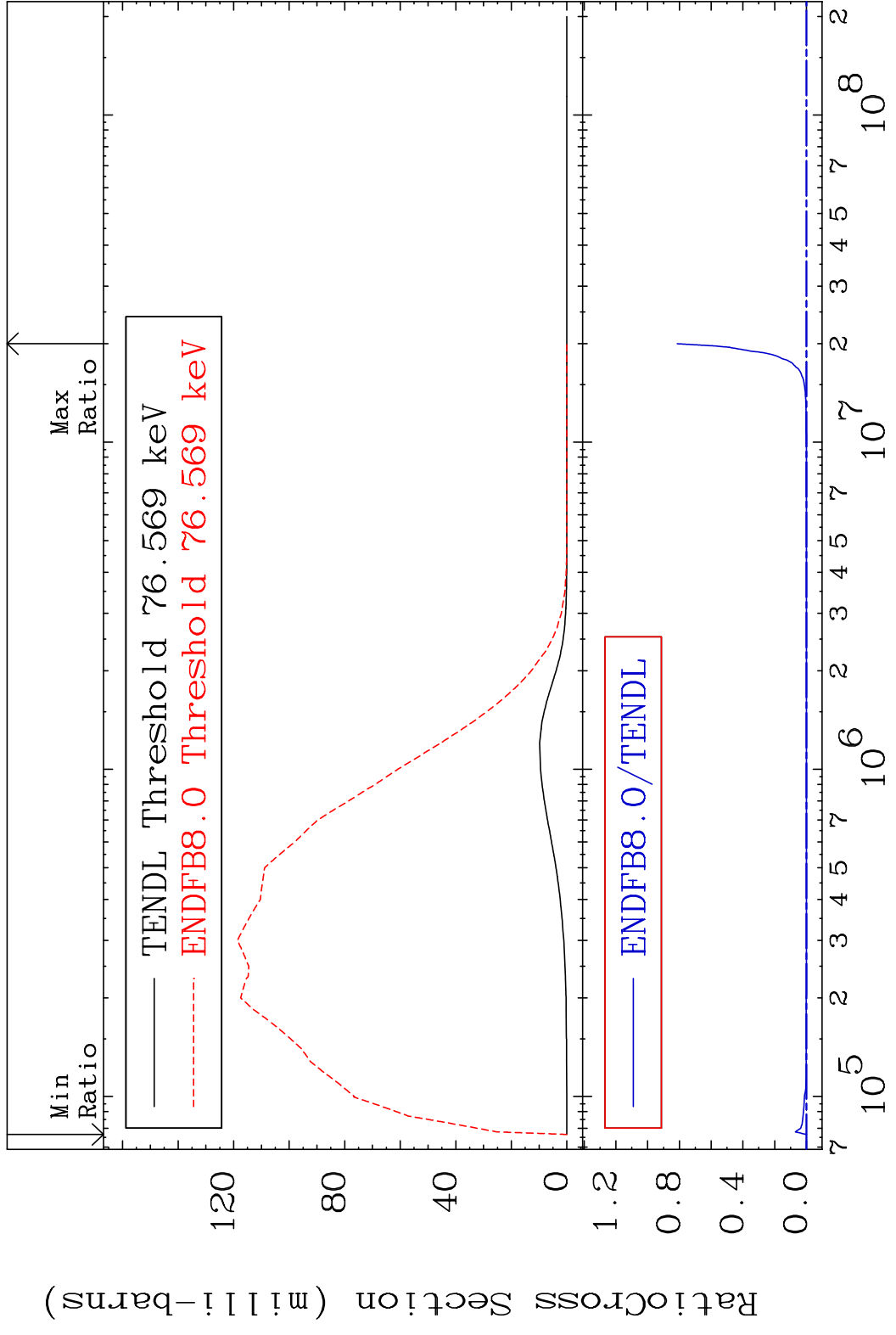


MAT 9025 MT= 54 (n, n') Level 90-Th-227
 Cross Section -100.0 To 9999. %

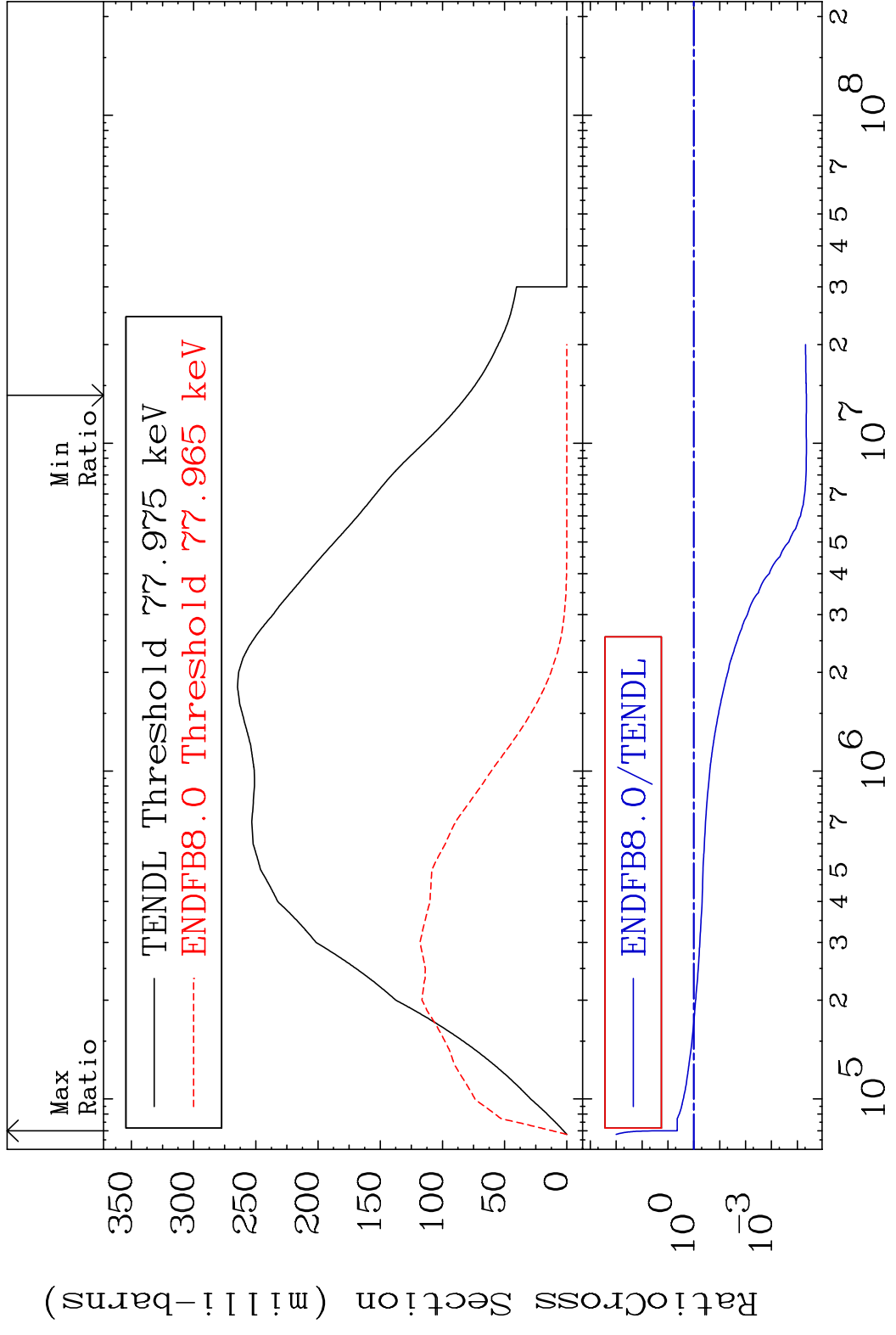


15 90-Th-227

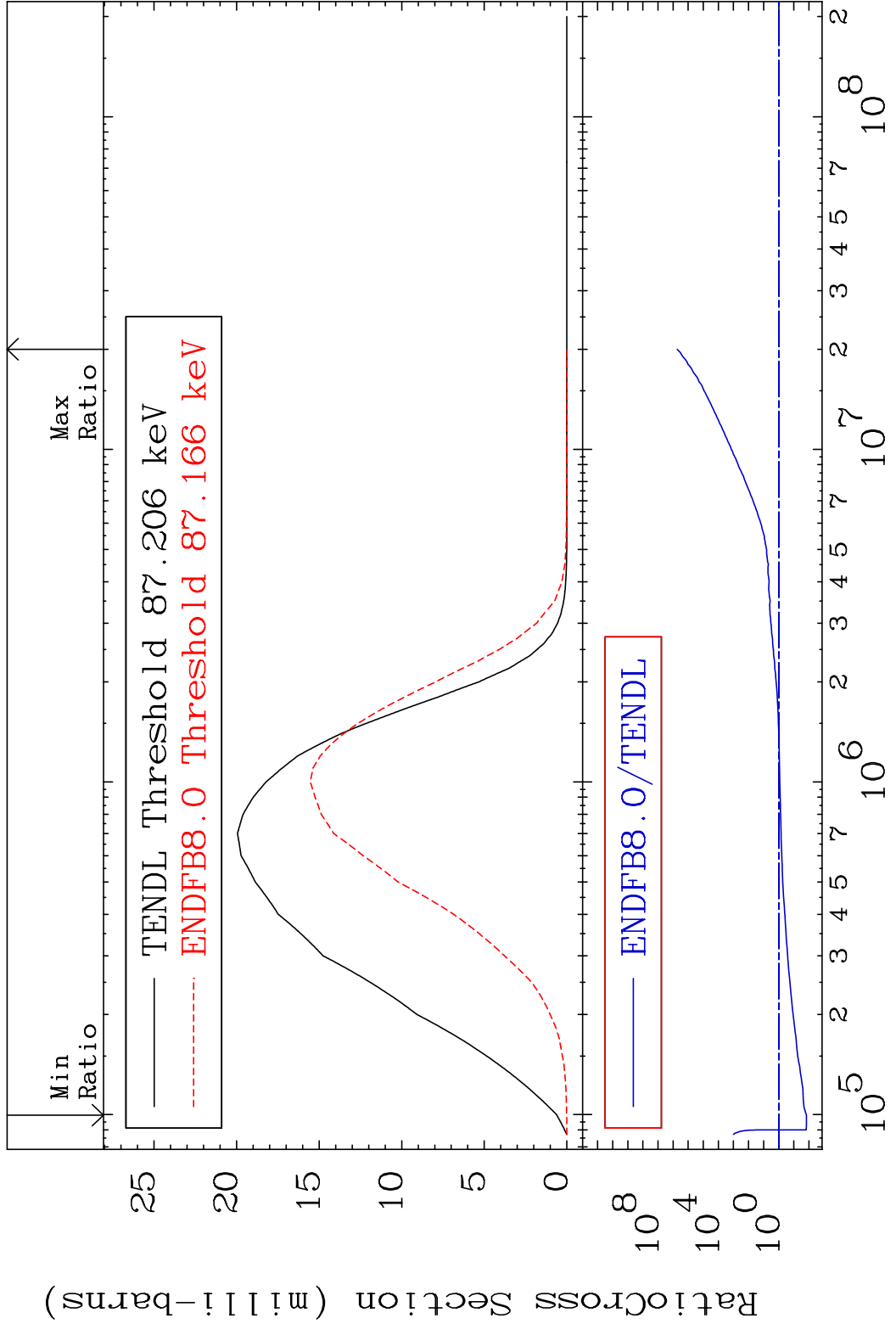
MAT 9025 MT= 55 (n,n') Level 90-Th-227
 Cross Section -100.0 To 9999. %



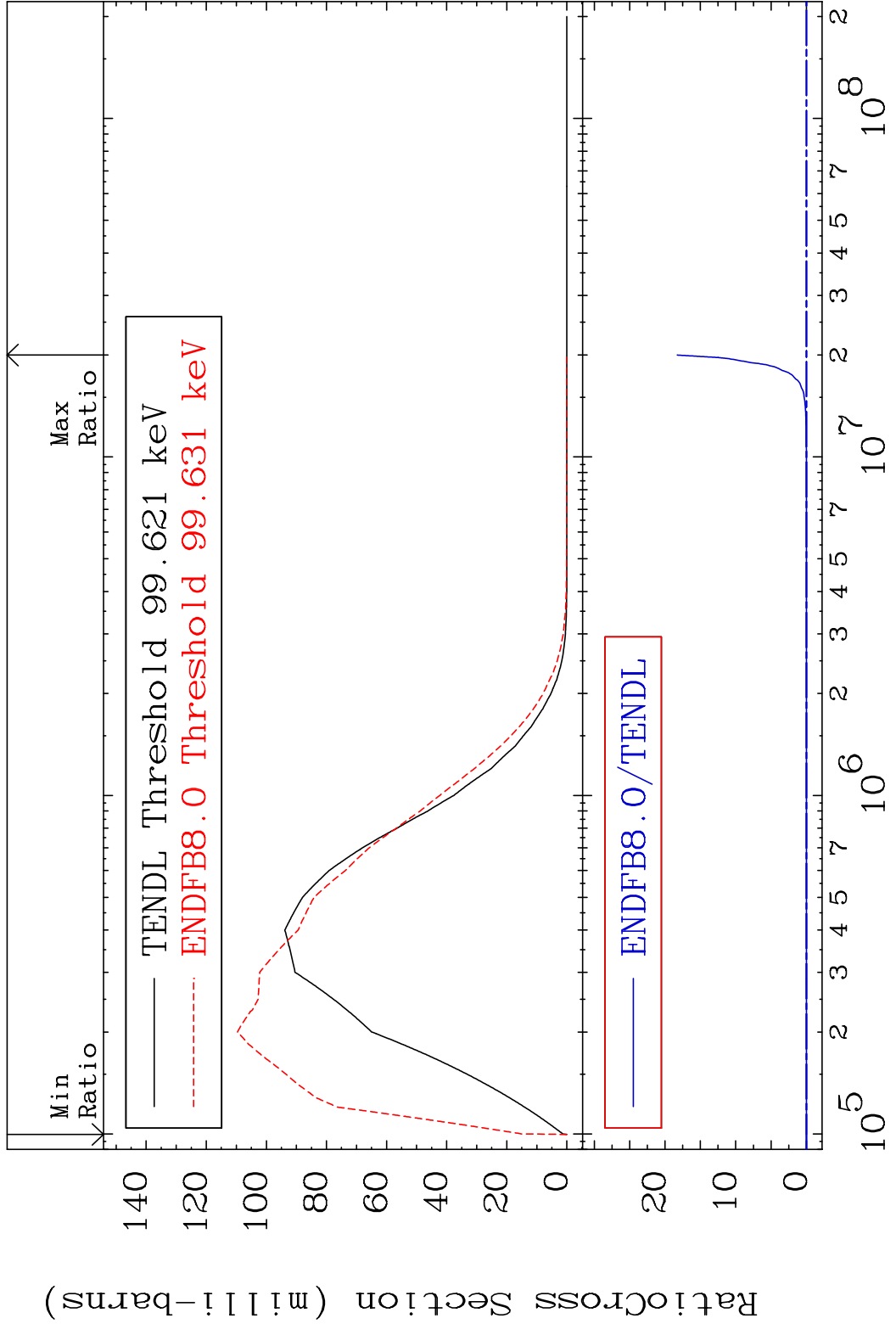
MAT 9025 MT= 56 (n, n') Level 90-Th-227
 Cross Section -100.0 To 338.6 %



MAT 9025 MT= 57 (n, n') Level 90-Th-227
 Cross Section -98.53 To 9999. %

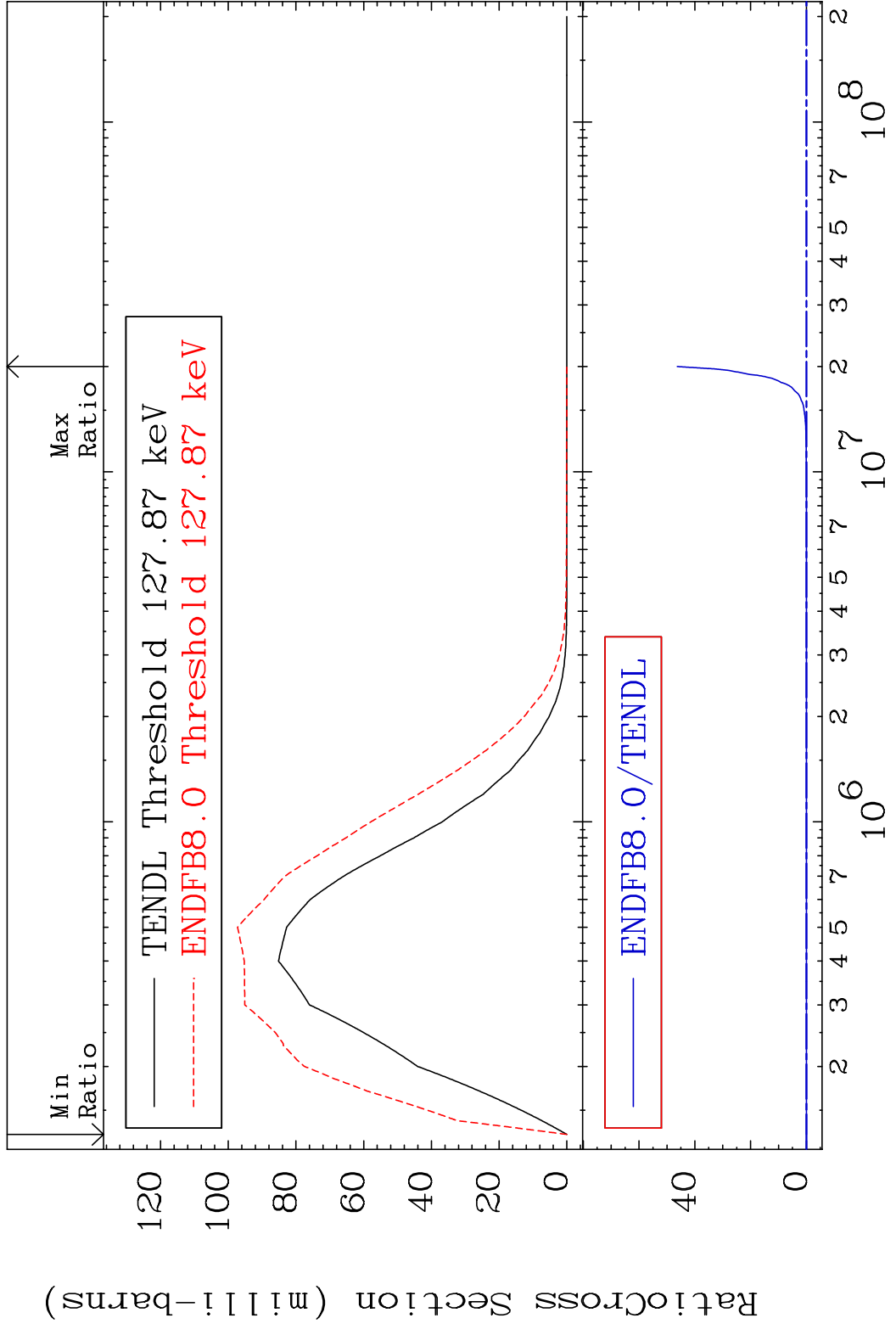


MAT 9025 MT= 58 (n,n') Level 90-Th-227
 Cross Section -100.0 To 9999. %



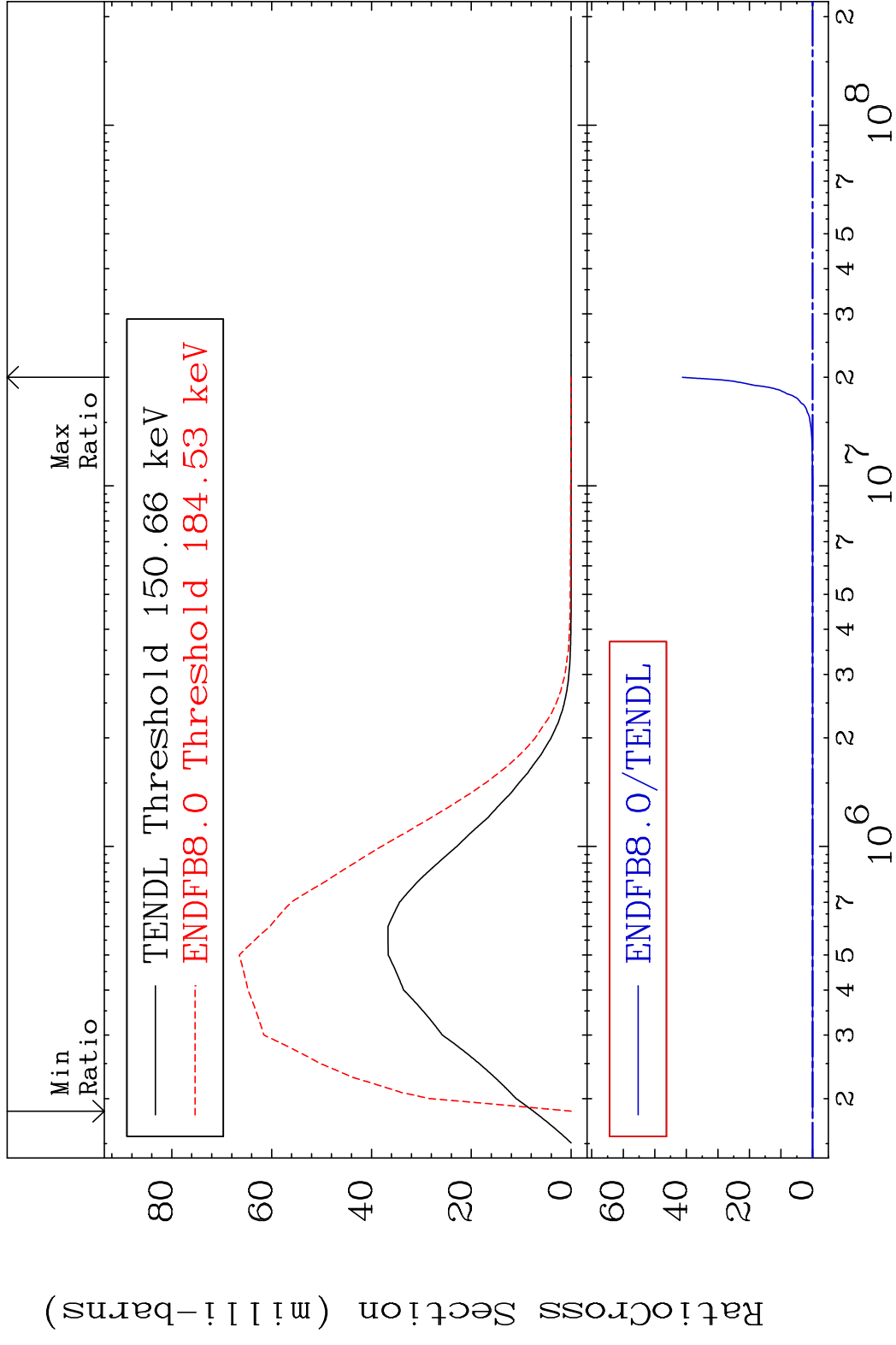
19 90-Th-227

MAT 9025 MT= 59 (n, n') Level 90-Th-227
 Cross Section -100.0 To 9999. %

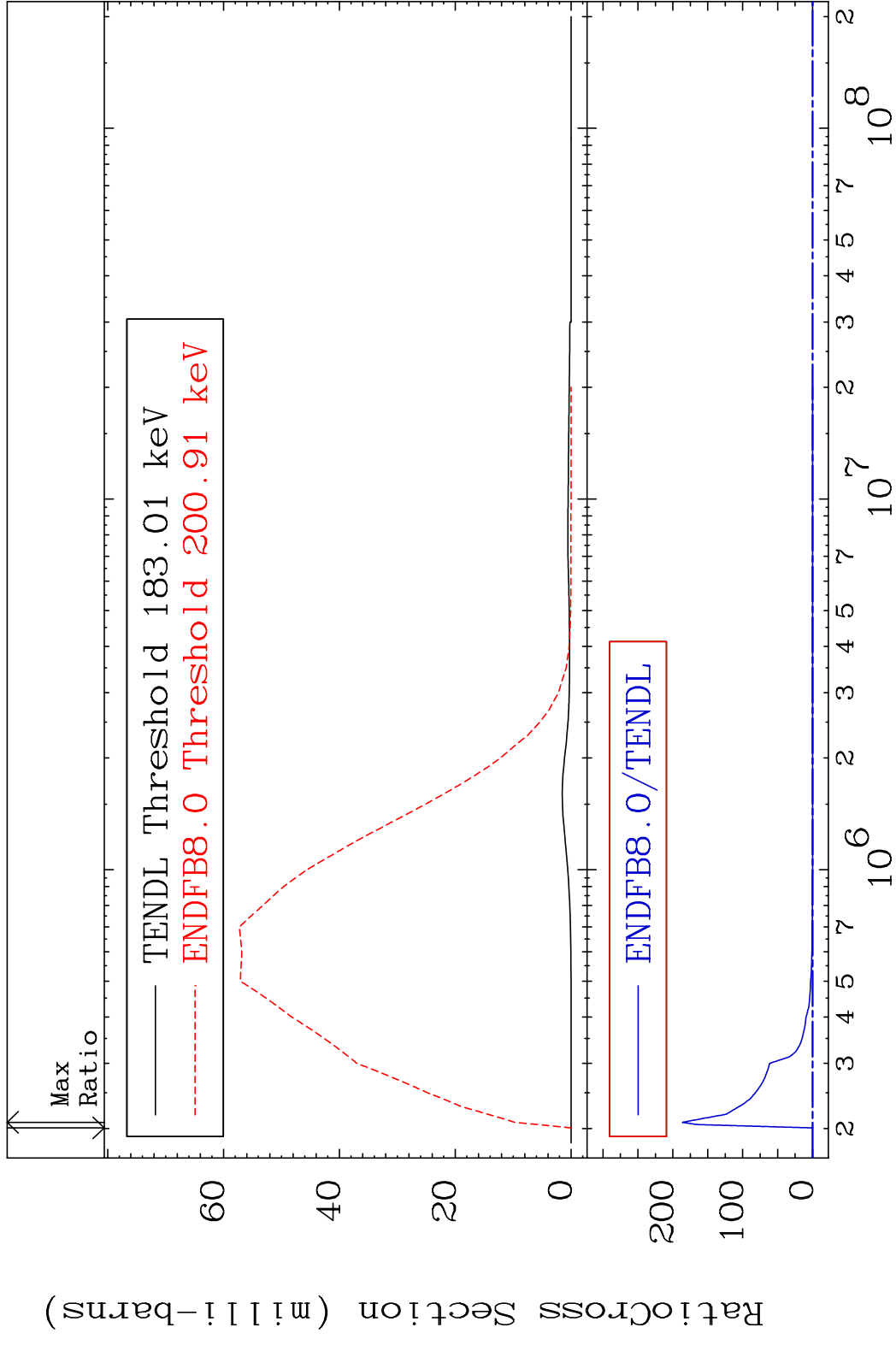


20 Incident Energy (eV) 90-Th-227

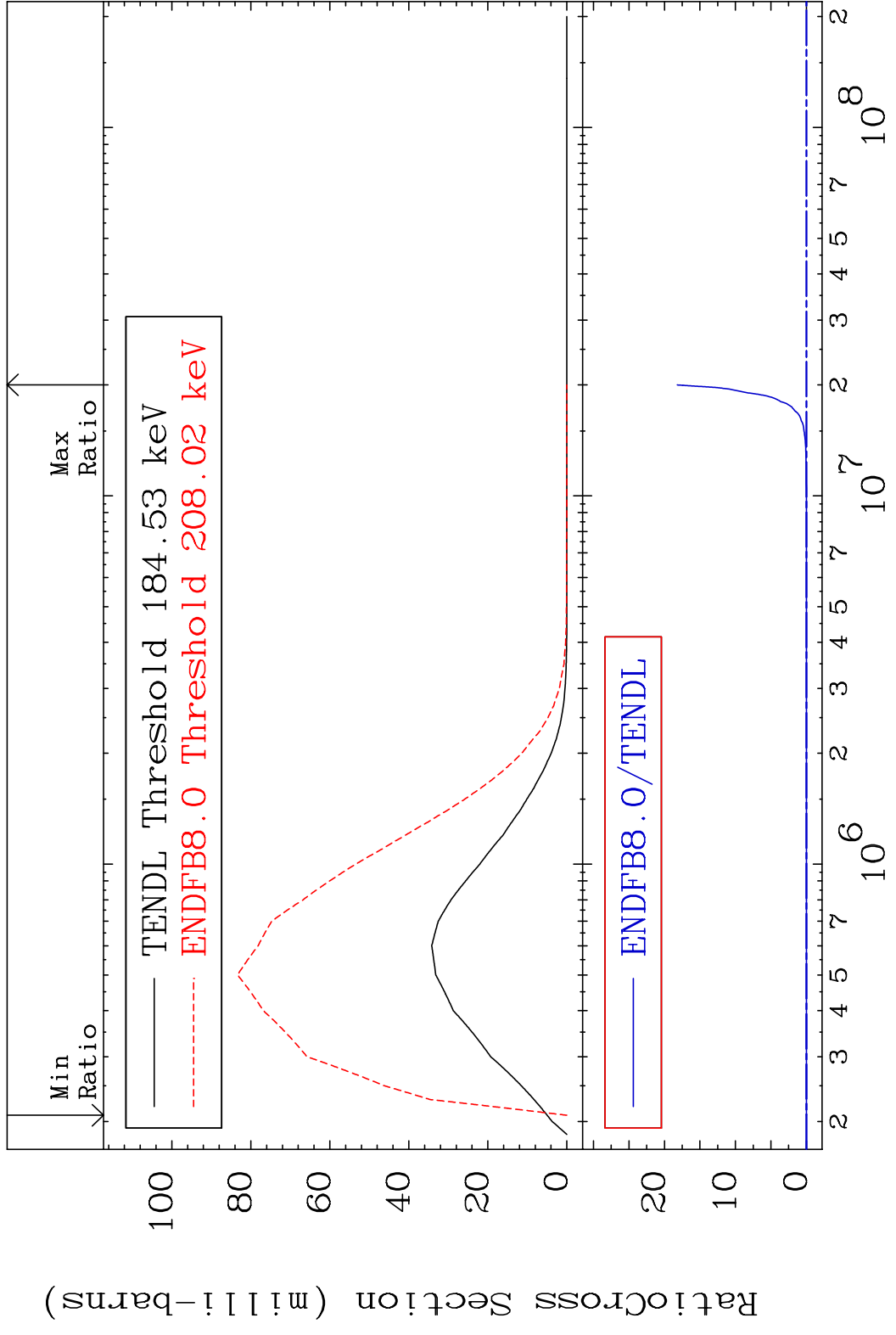
MAT 9025 MT= 60 (n, n') Level 90-Th-227
 Cross Section -100.0 To 9999. %



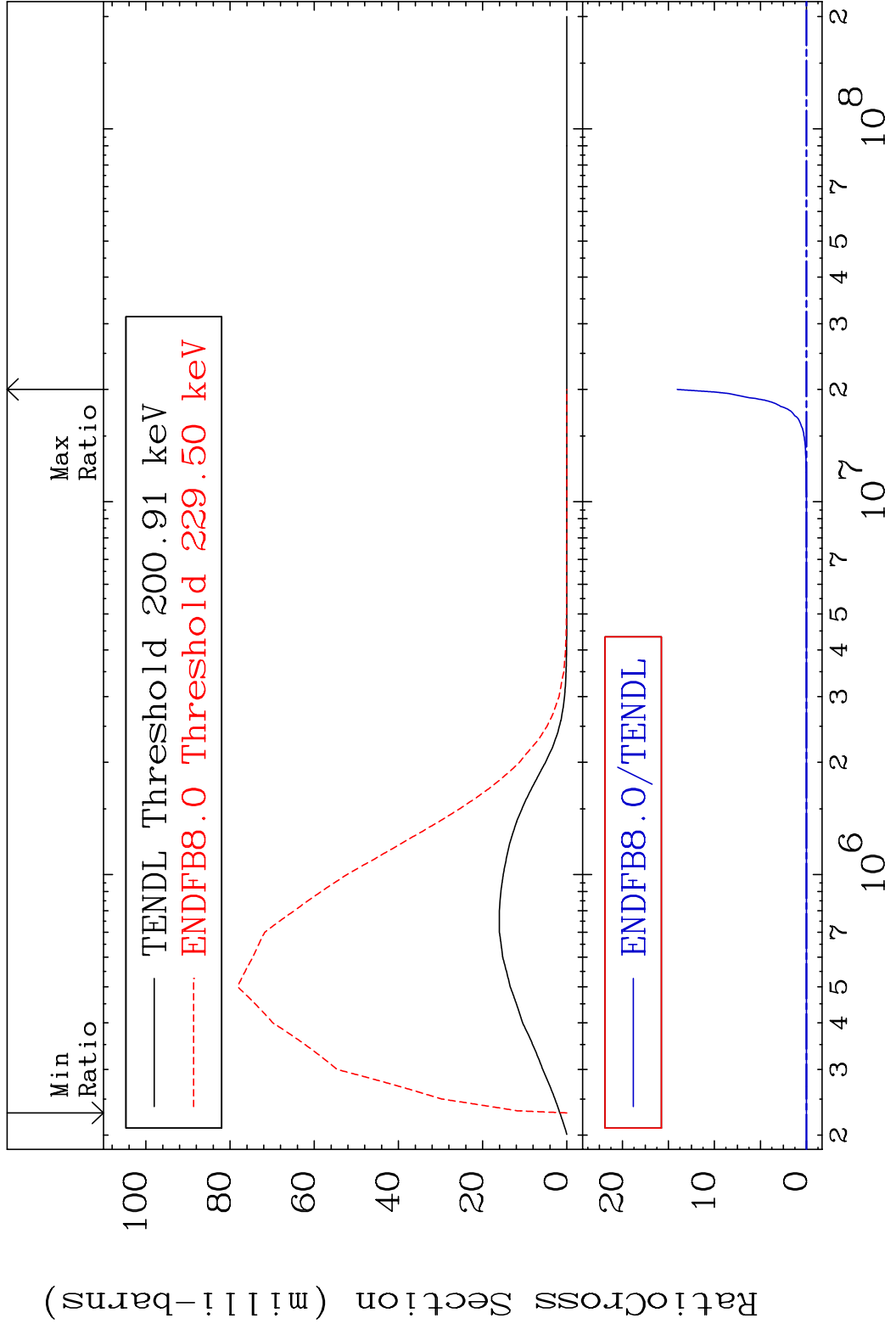
MAT 9025 MT= 61 (n,n') Level 90-Th-227
 Cross Section -100.0 To 9999. %



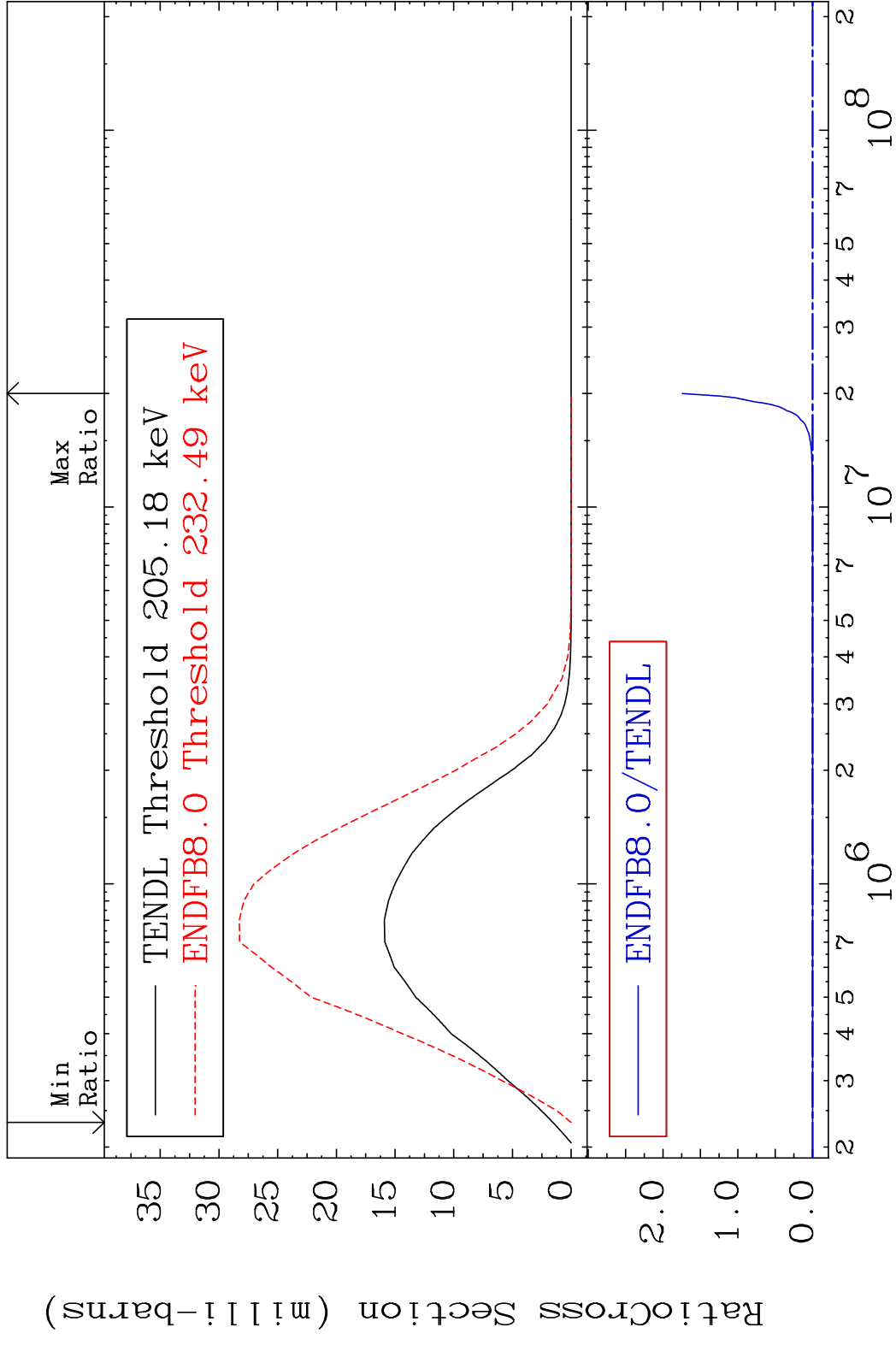
MAT 9025 MT= 62 (n, n') Level 90-Th-227
 Cross Section -100.0 To 9999. %



MAT 9025 MT= 63 (n, n') Level 90-Th-227
 Cross Section -100.0 To 9999. %



MAT 9025 MT= 64 (n,n') Level 90-Th-227
 Cross Section -100.0 To 9999. %

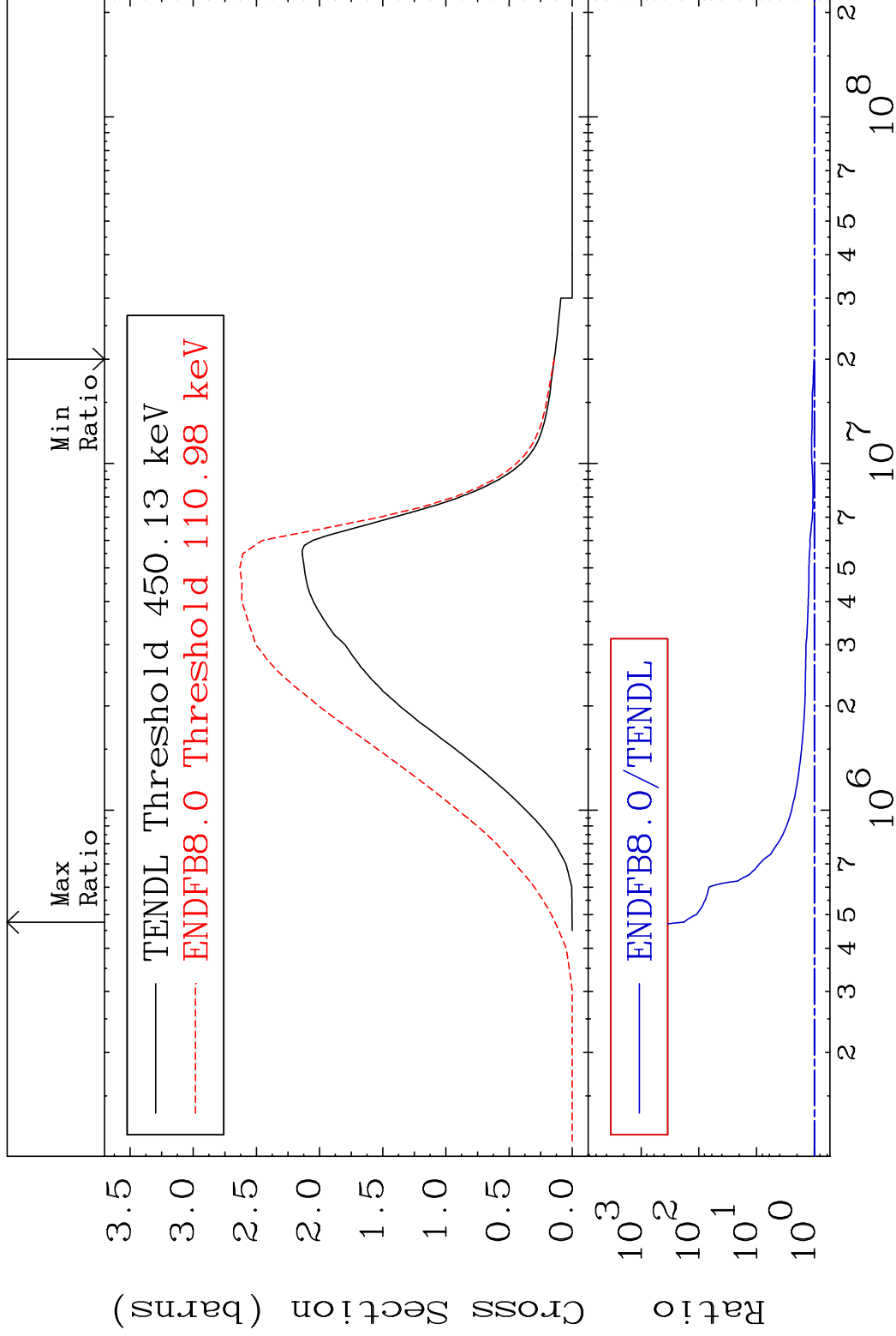


MAT 9025

(n, n') Continuum

90-Th-227

Cross Section 0.861 To 9999. %

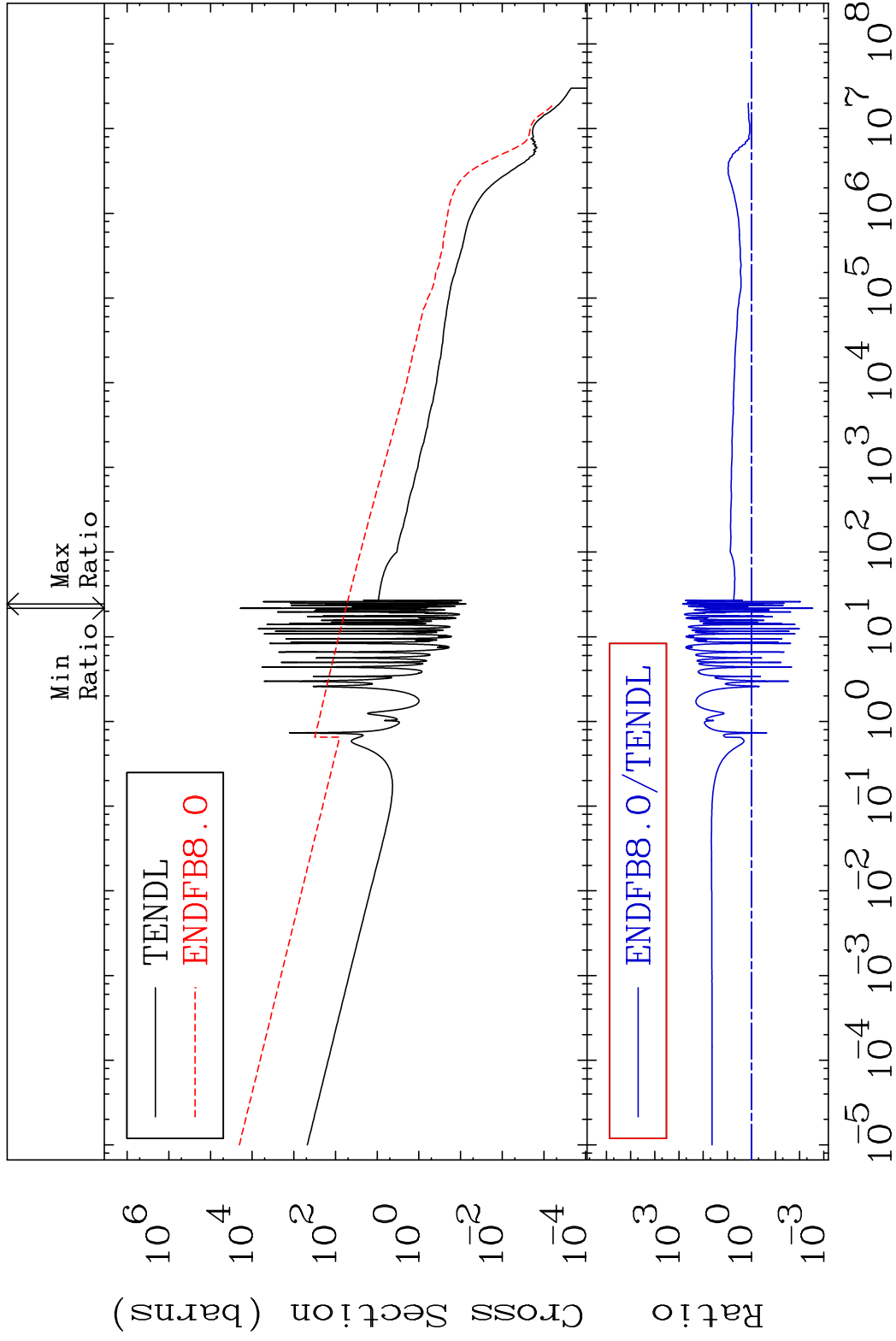


MAT 9025

(n, γ)

90-Th-227

Cross Section -99.71 To 9999. %

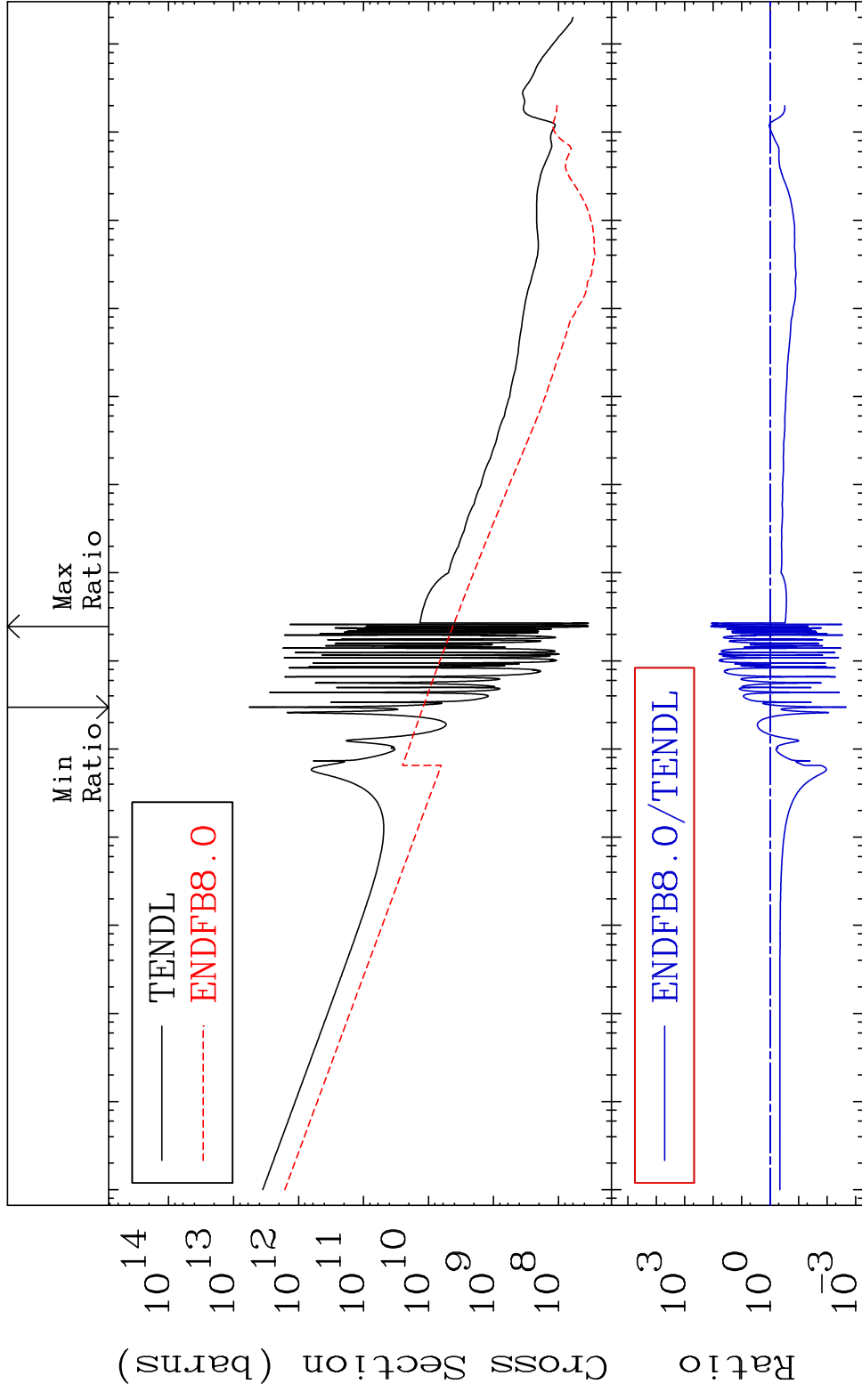


27

Incident Energy (eV)

90-Th-227

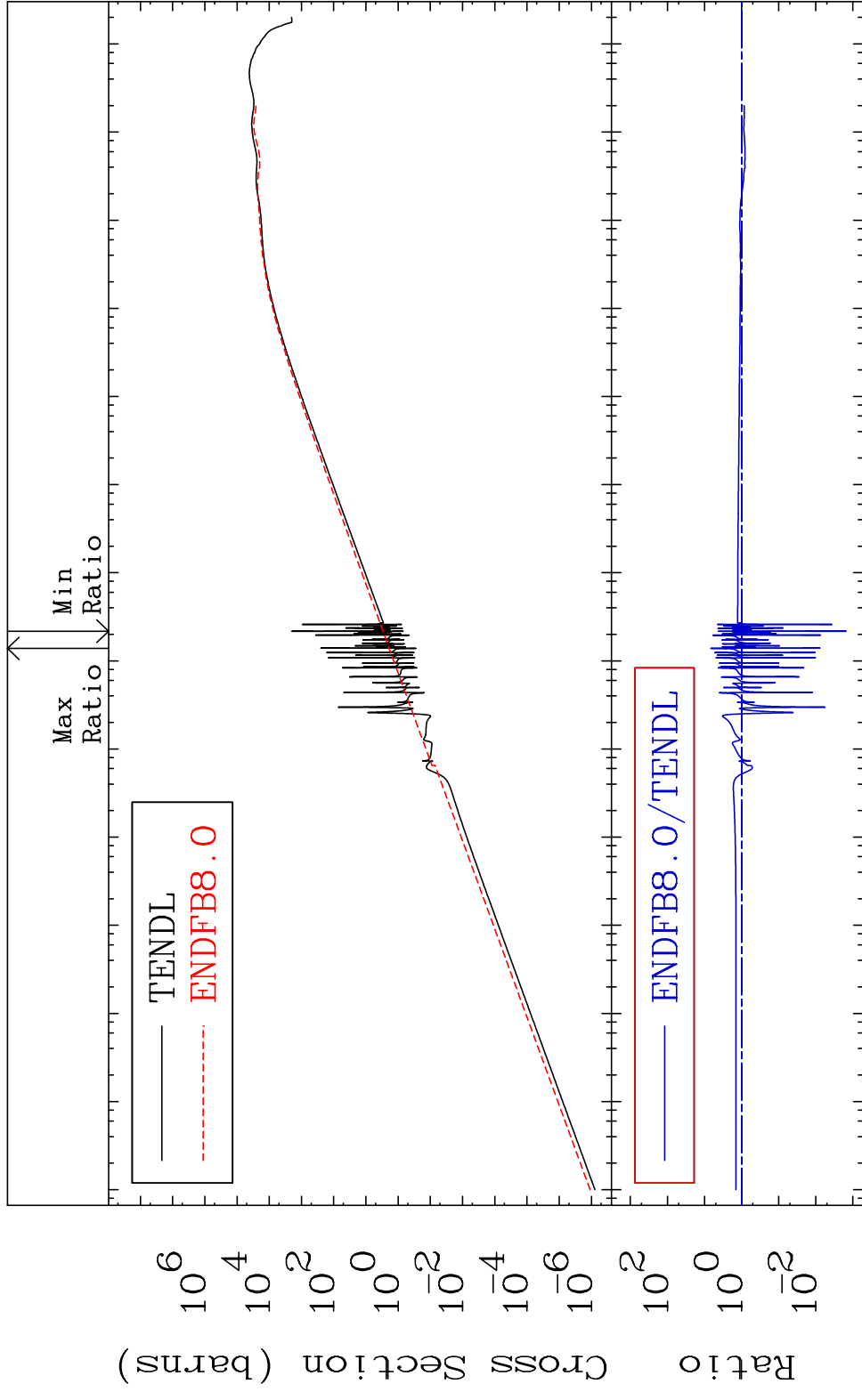
MAT 9025 Kerma total (eV-barns) 90-Th-227
 Cross Section -99.79 To 9999. %



MAT 9025

Kerma elastic
Cross Section -99.85 To 580.3 %

90-Th-227



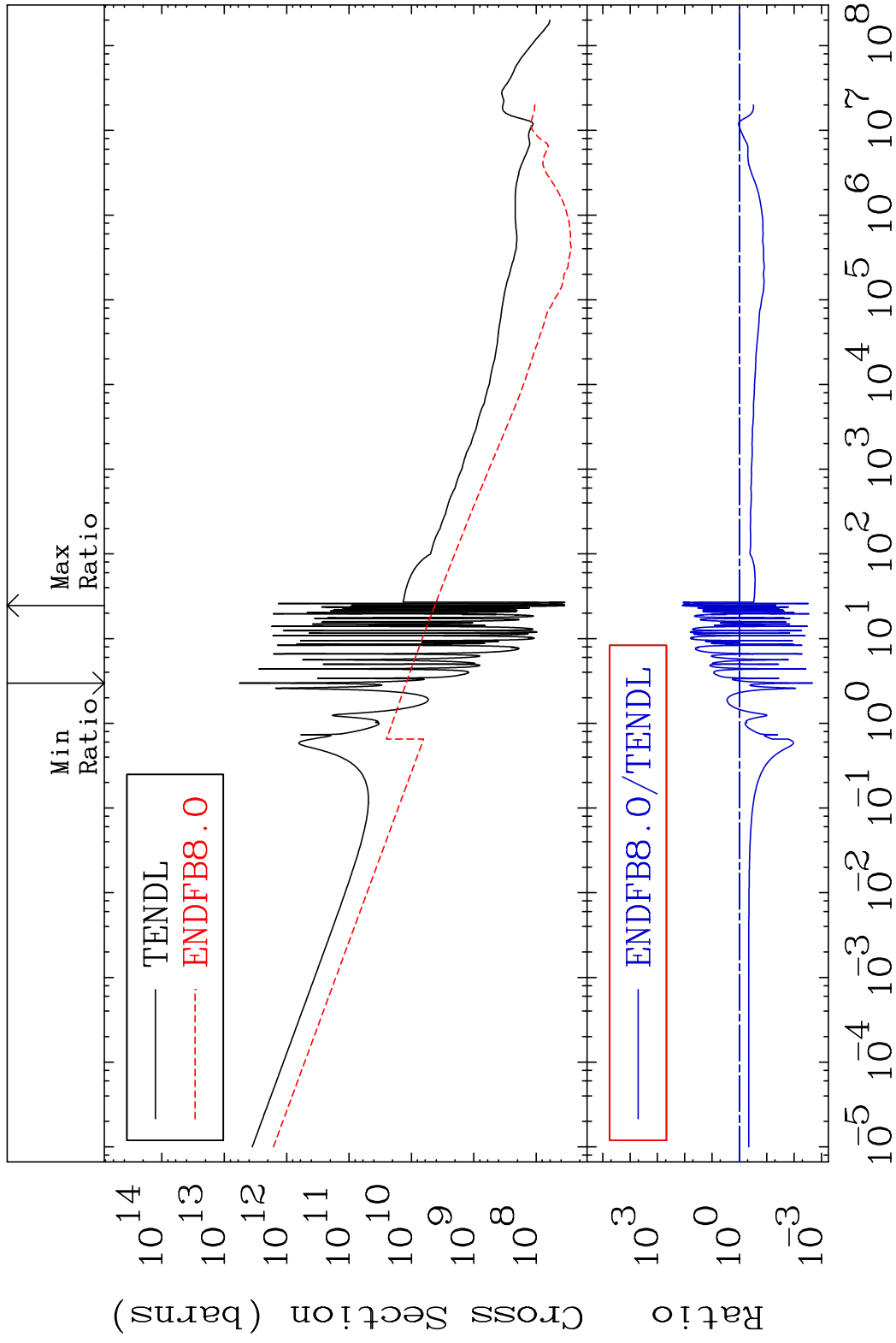
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

29

Incident Energy (eV)

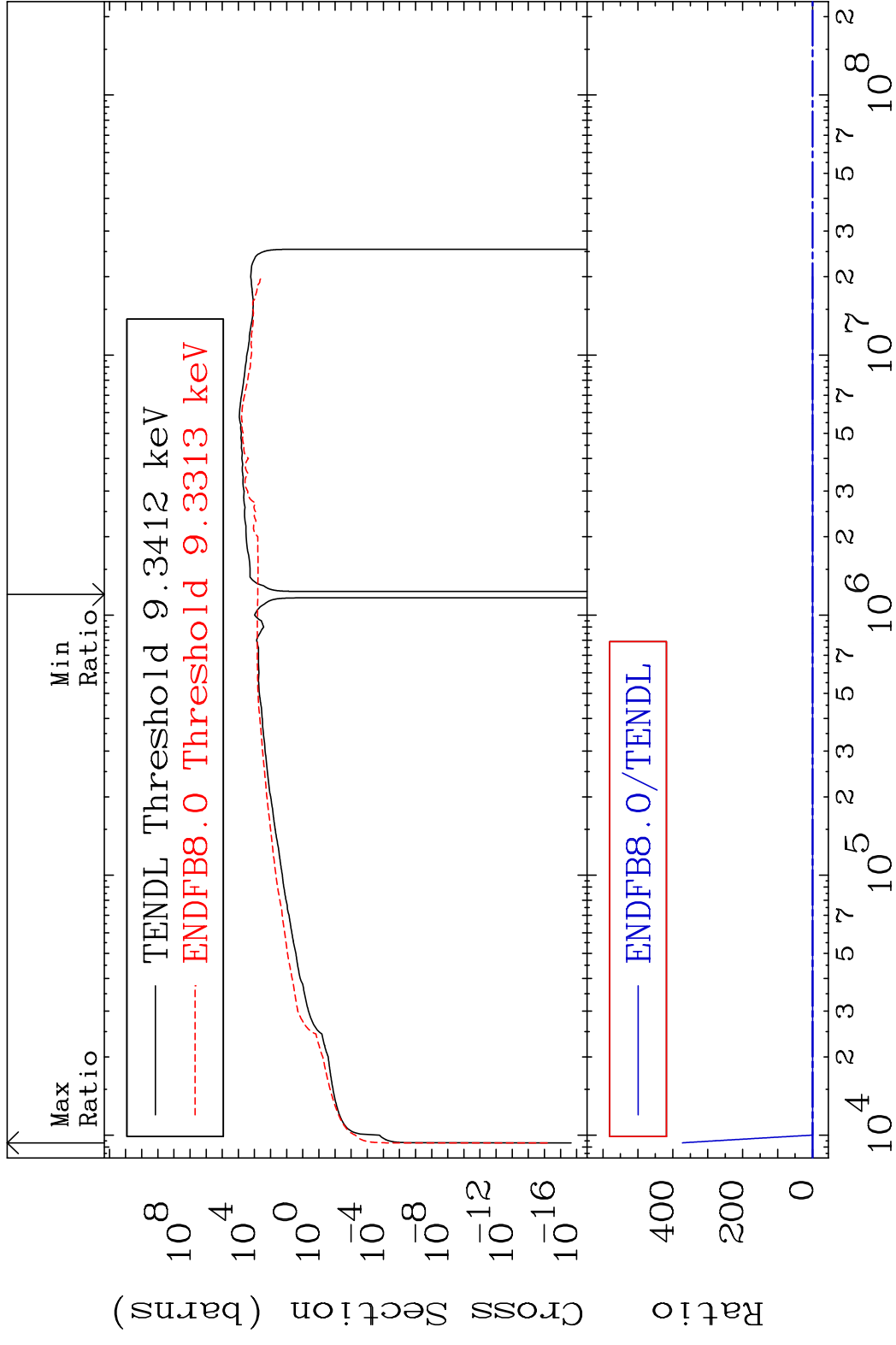
90-Th-227

MAT 9025 Kerma non-elastic (all but mt2) 90-Th-227
 Cross Section -99.79 To 9999. %

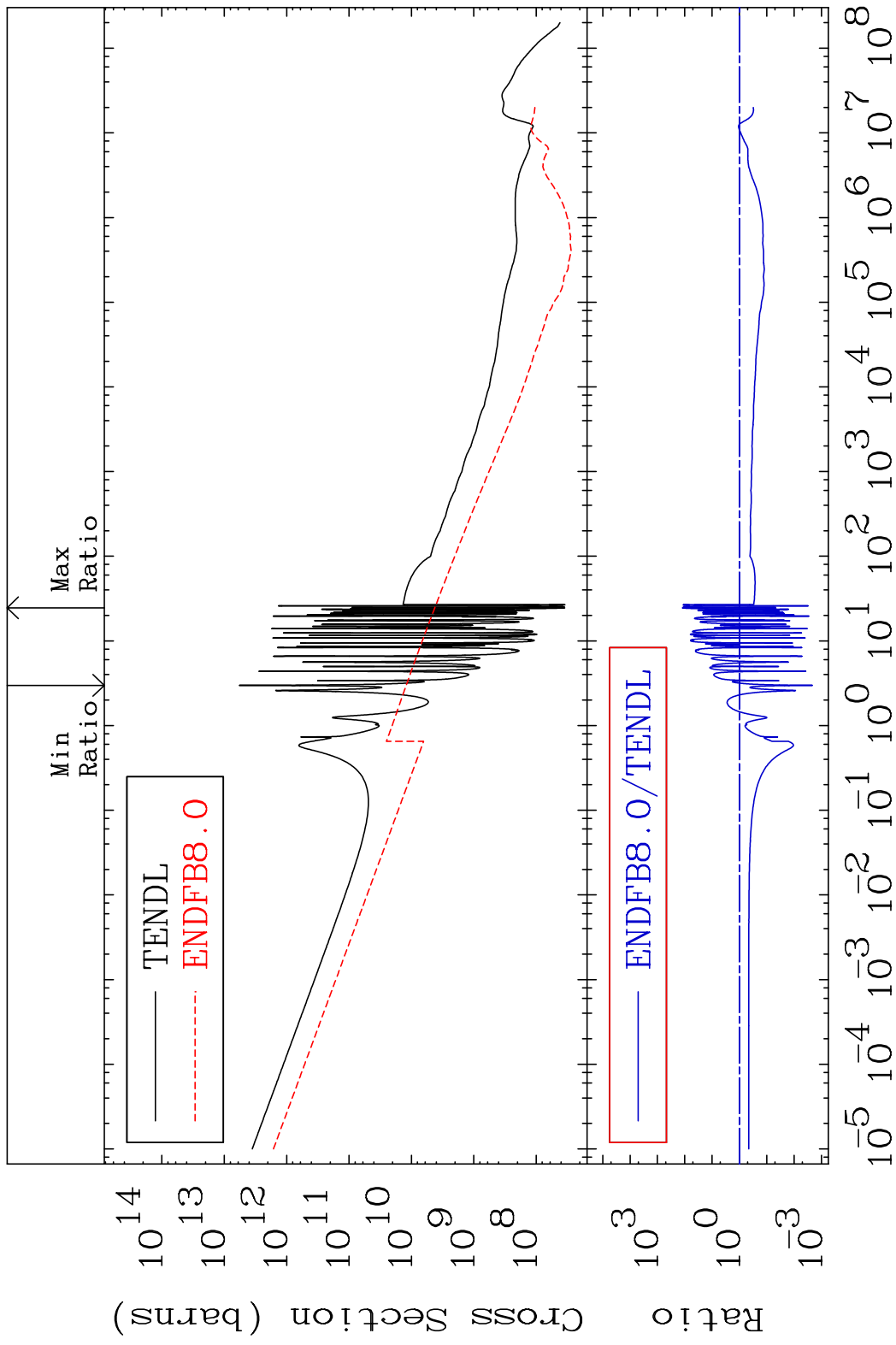


30 Incident Energy (eV) 90-Th-227

MAT 9025 Kerma inelastic (mt51-91) 90-Th-227
 Cross Section -558.2 To 9999. %

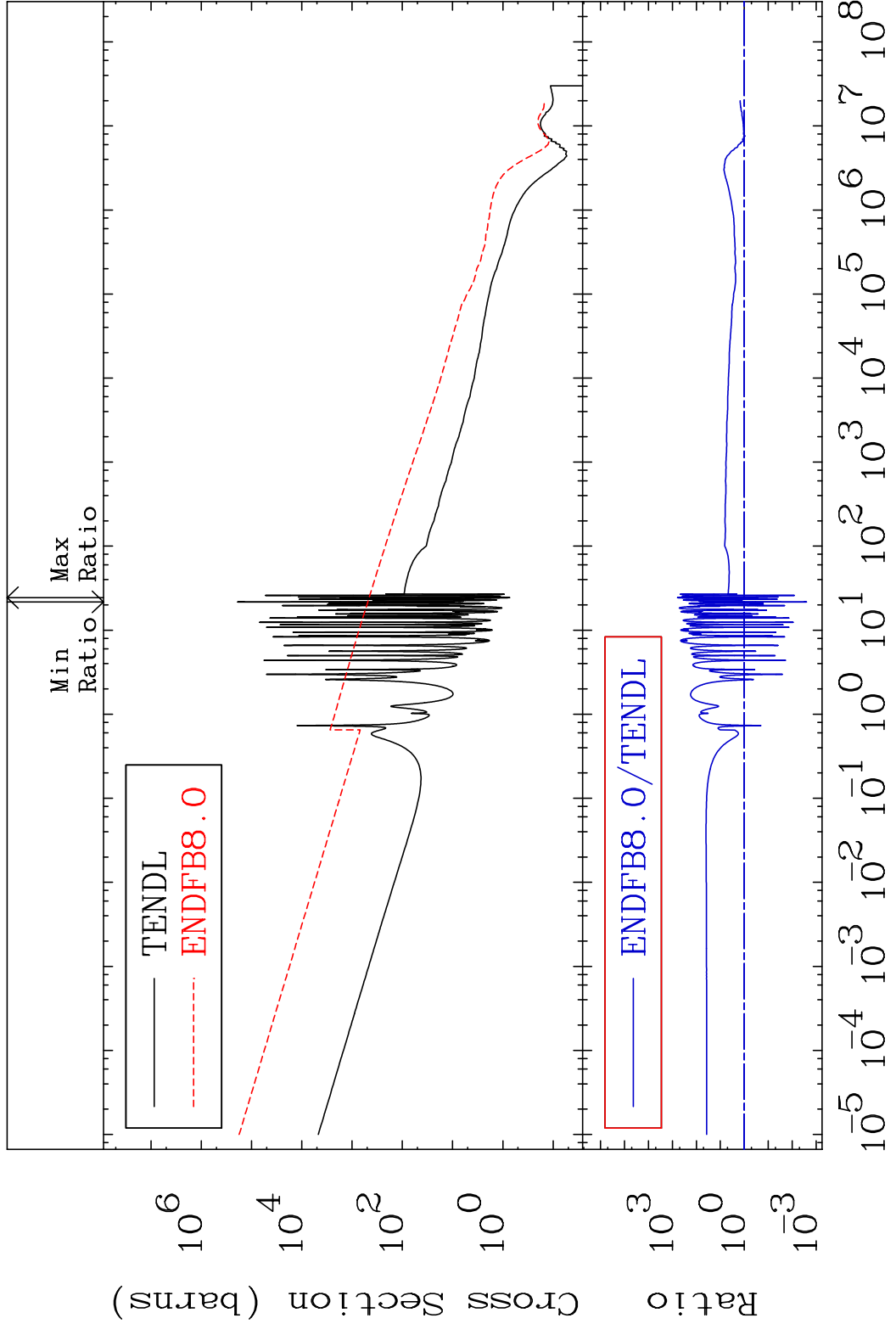


MAT 9025 Kerma fission (mt18 or mt19-20-21-38) 90-Th-227
 Cross Section -99.79 To 9999. %

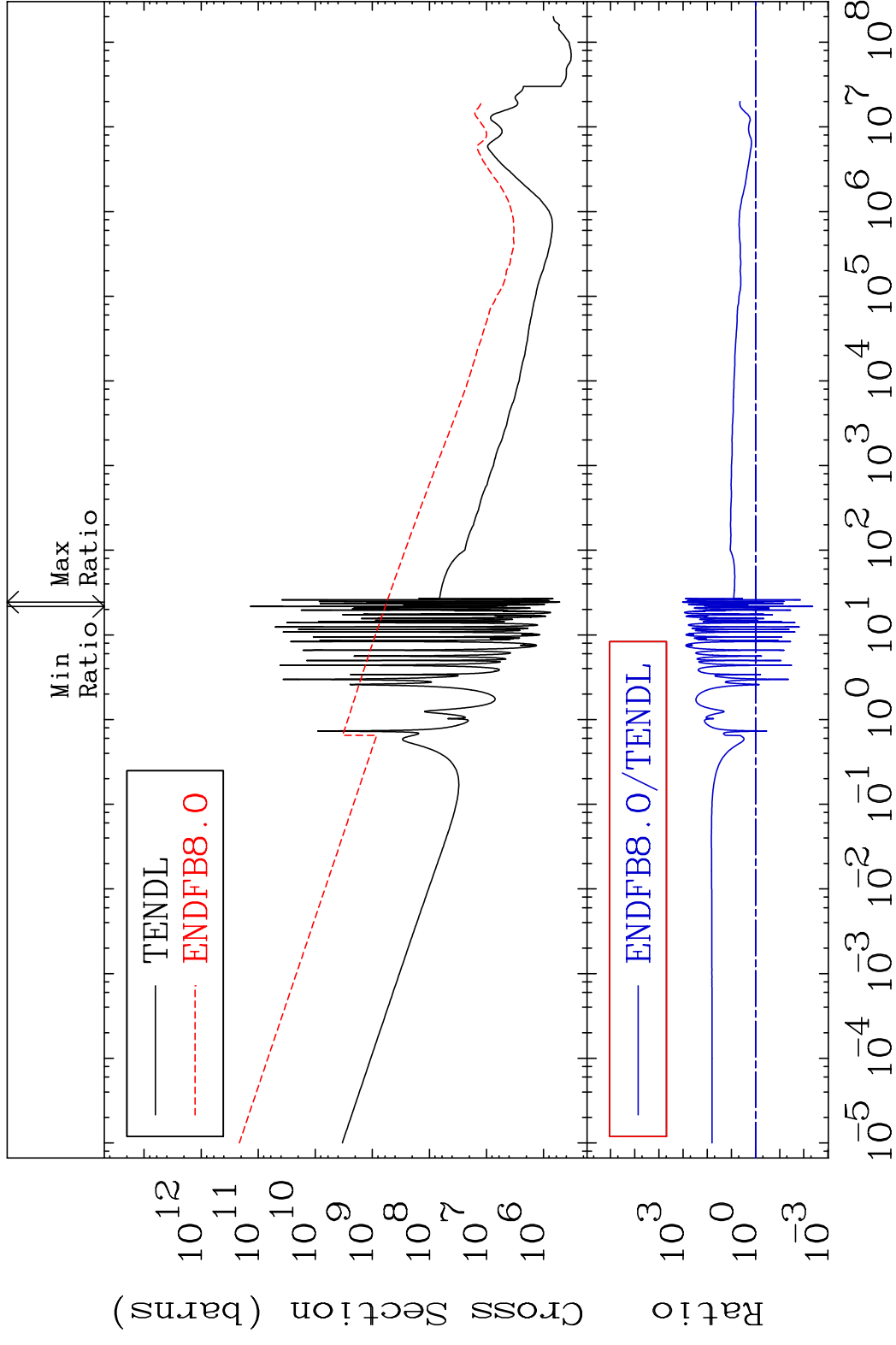


MAT 9025

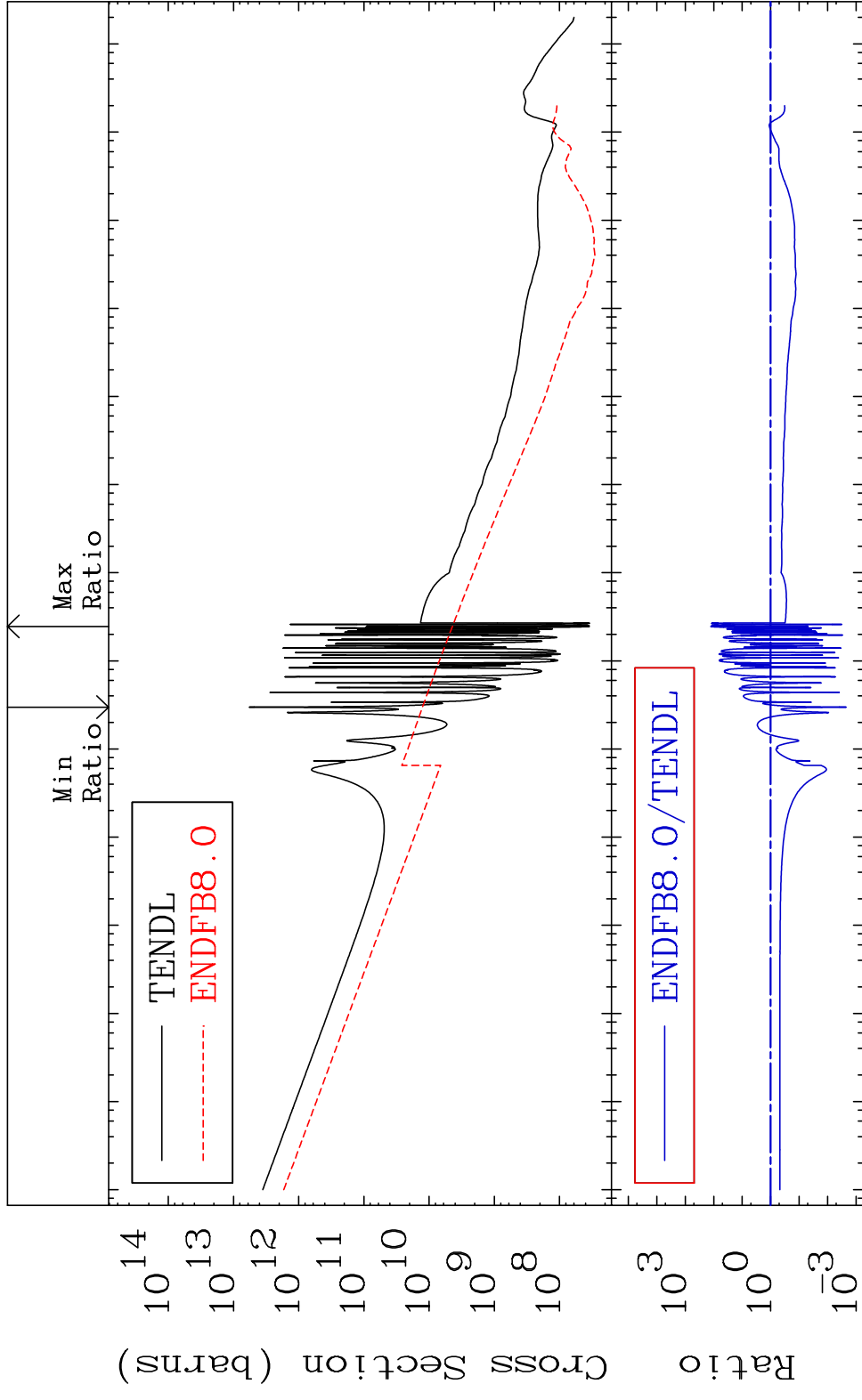
Kerma capture (mt102) 90-Th-227
Cross Section -99.74 To 9999. %



MAT 9025 Total photon (eV-barns) 90-Th-227
 Cross Section -99.57 To 9999. %



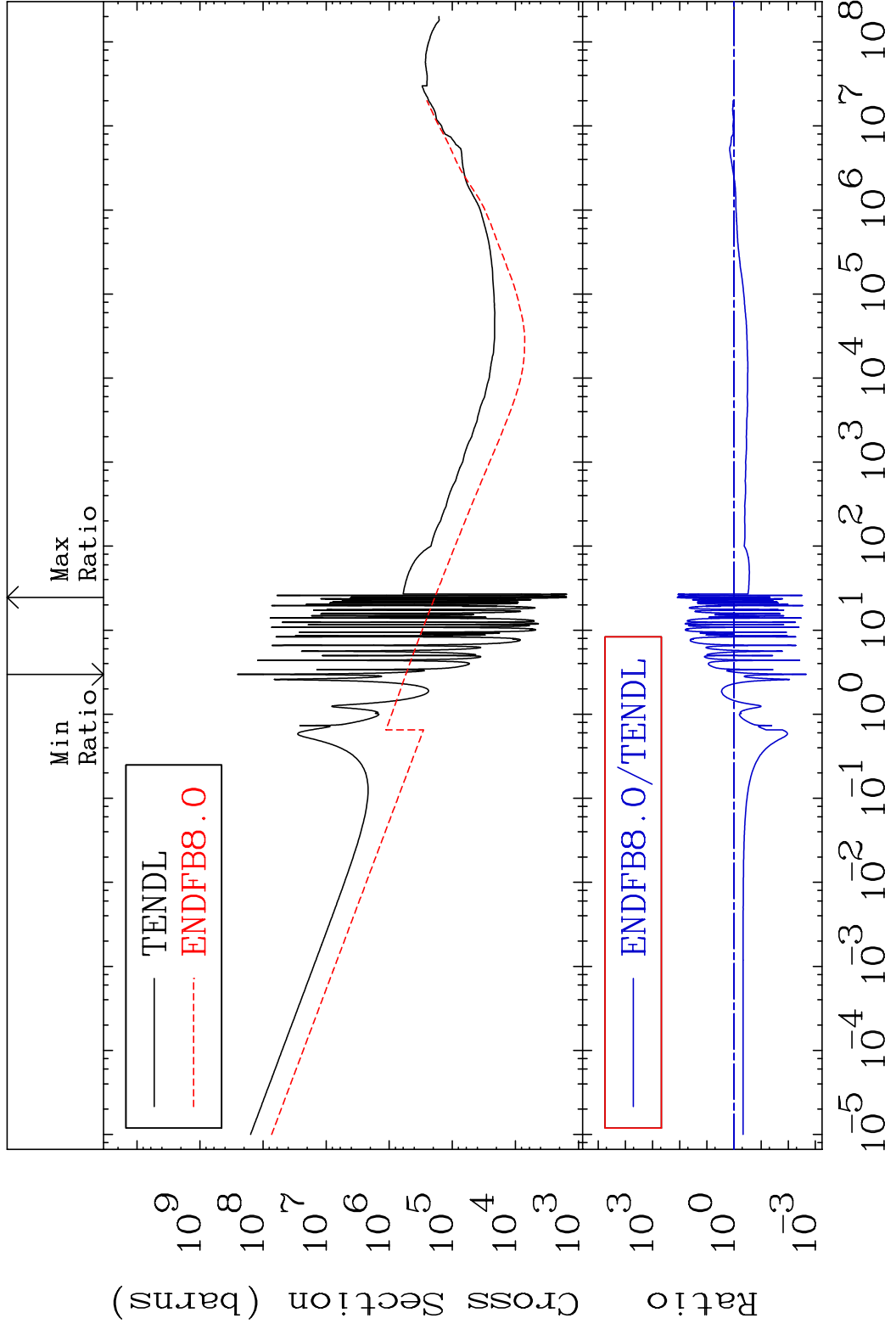
MAT 9025 Total kinematic kerma (high limit) 90-Th-227
 Cross Section -99.78 To 9999. %



Ratio
 10^3
 10^0
 10^{-3}

35 Incident Energy (eV) 90-Th-227

MAT 9025 Dpa total (eV-barns) 90-Th-227
 Cross Section -99.79 To 9999. %



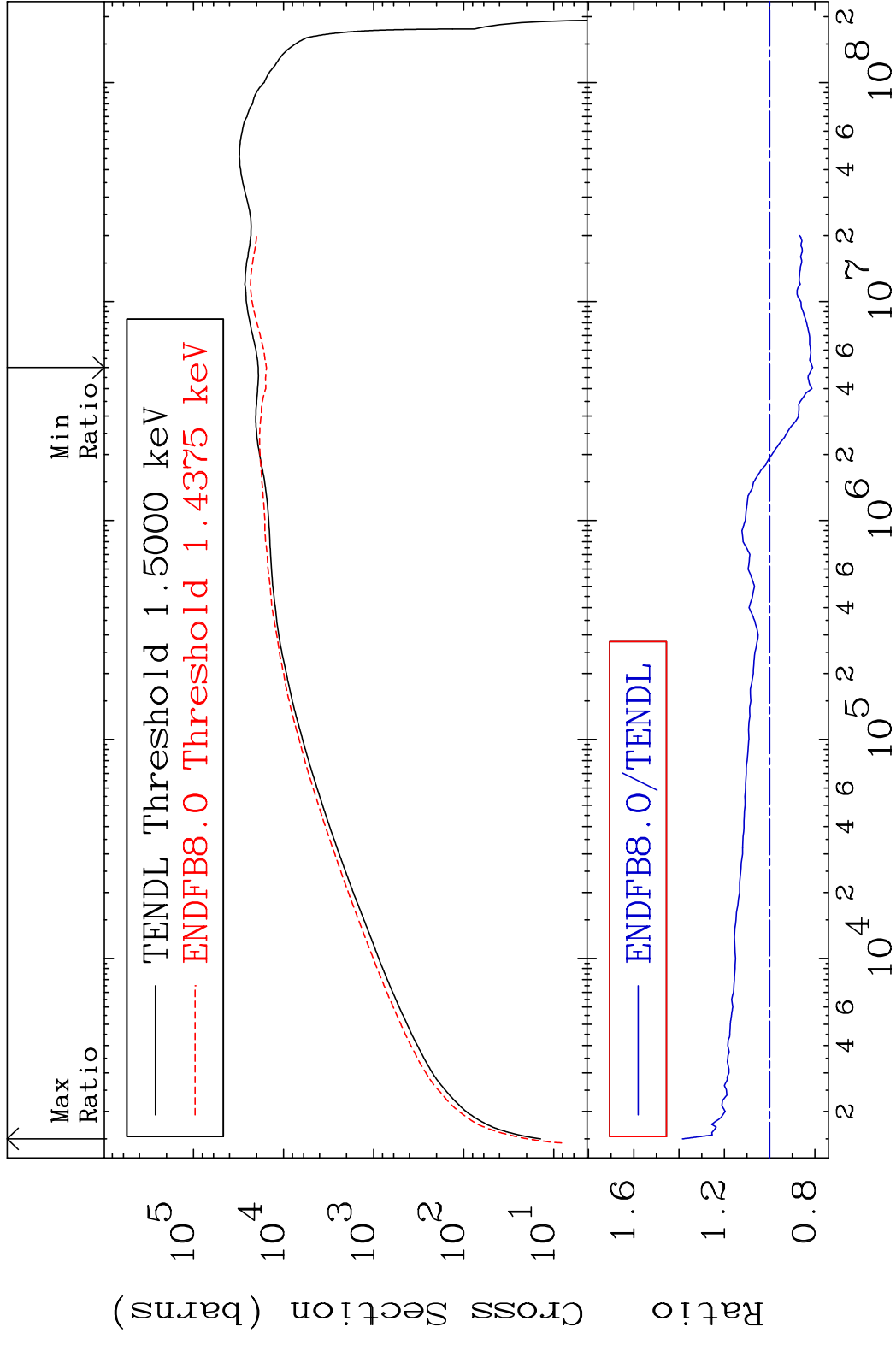
MAT 9025

Dpa elastic (mt2)

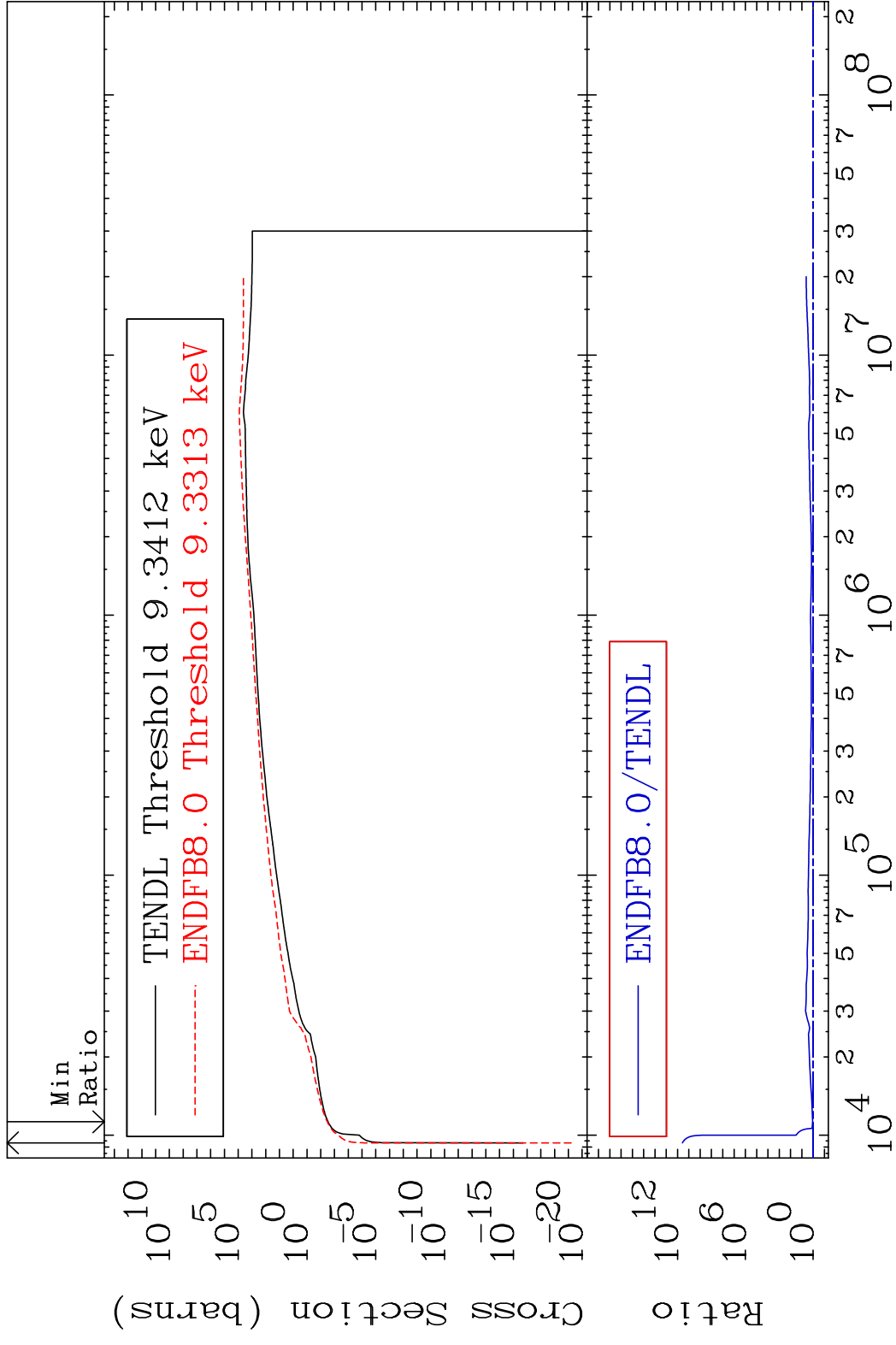
90-Th-227

Cross Section

-18.97 To 38.52 %



MAT 9025 Dpa inelastic (mt51-91) 90-Th-227
 Cross Section 12.25 To 9999. %



MAT 9025 Dpa disappearance (mt102 -120) 90-Th-227
 Cross Section -100.0 To 9999. %

