

Program Complot
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

U.S.A.

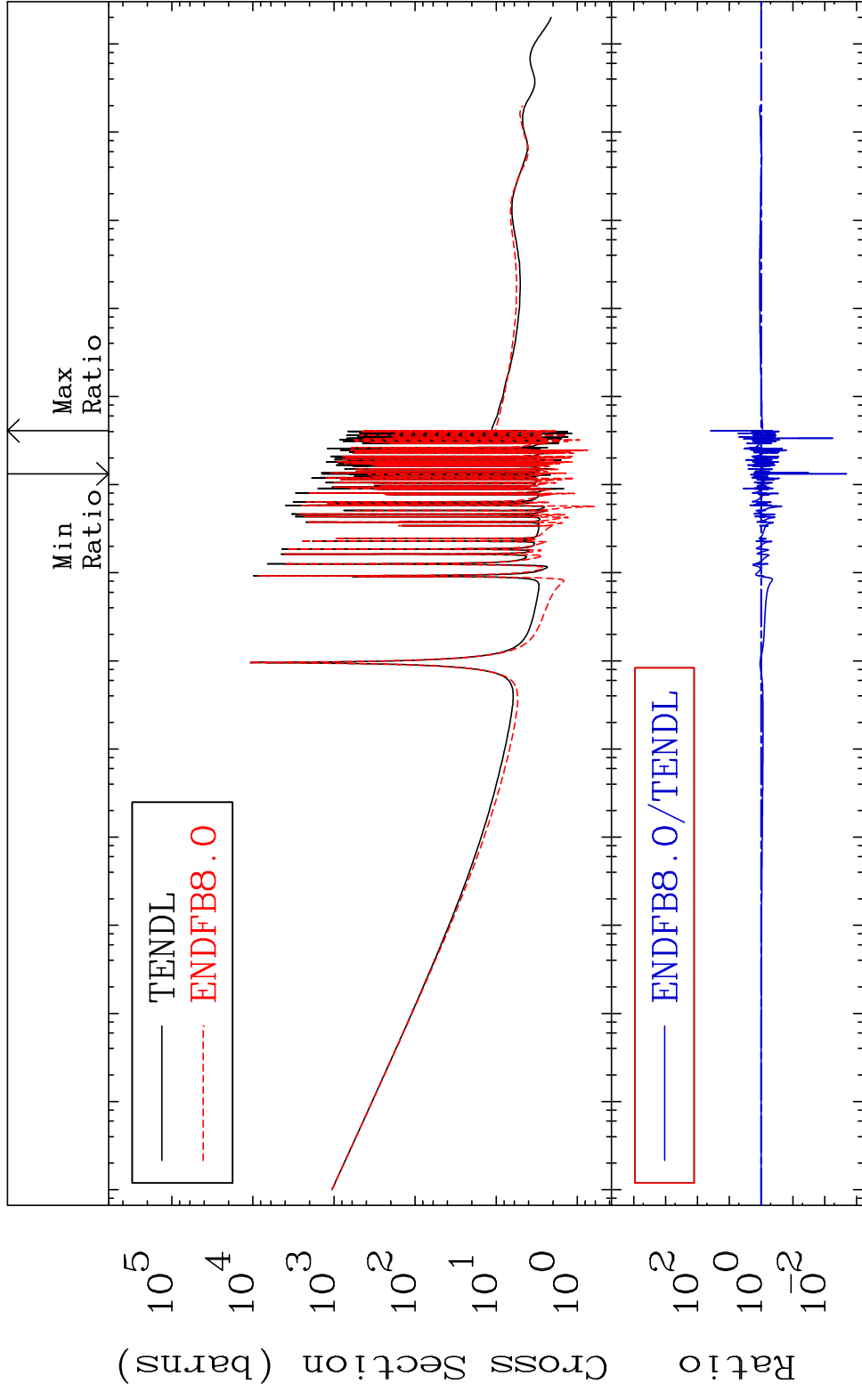
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 5440

Total 54-Xe-129
Cross Section -99.79 To 3710. %



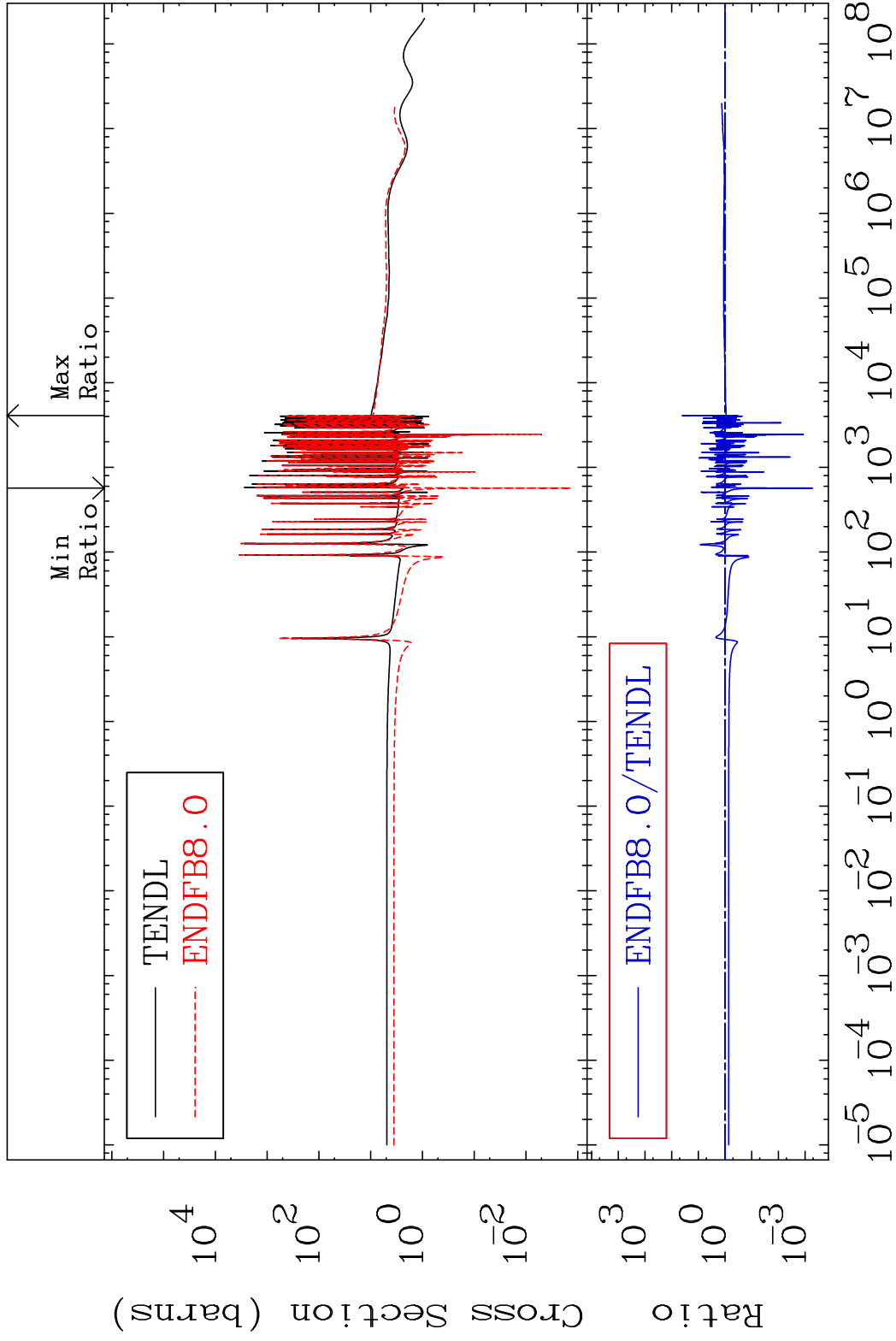
1 Incident Energy (eV) 54-Xe-129

MAT 5440

Elastic

54-Xe-129

Cross Section -99.95 To 3873. %

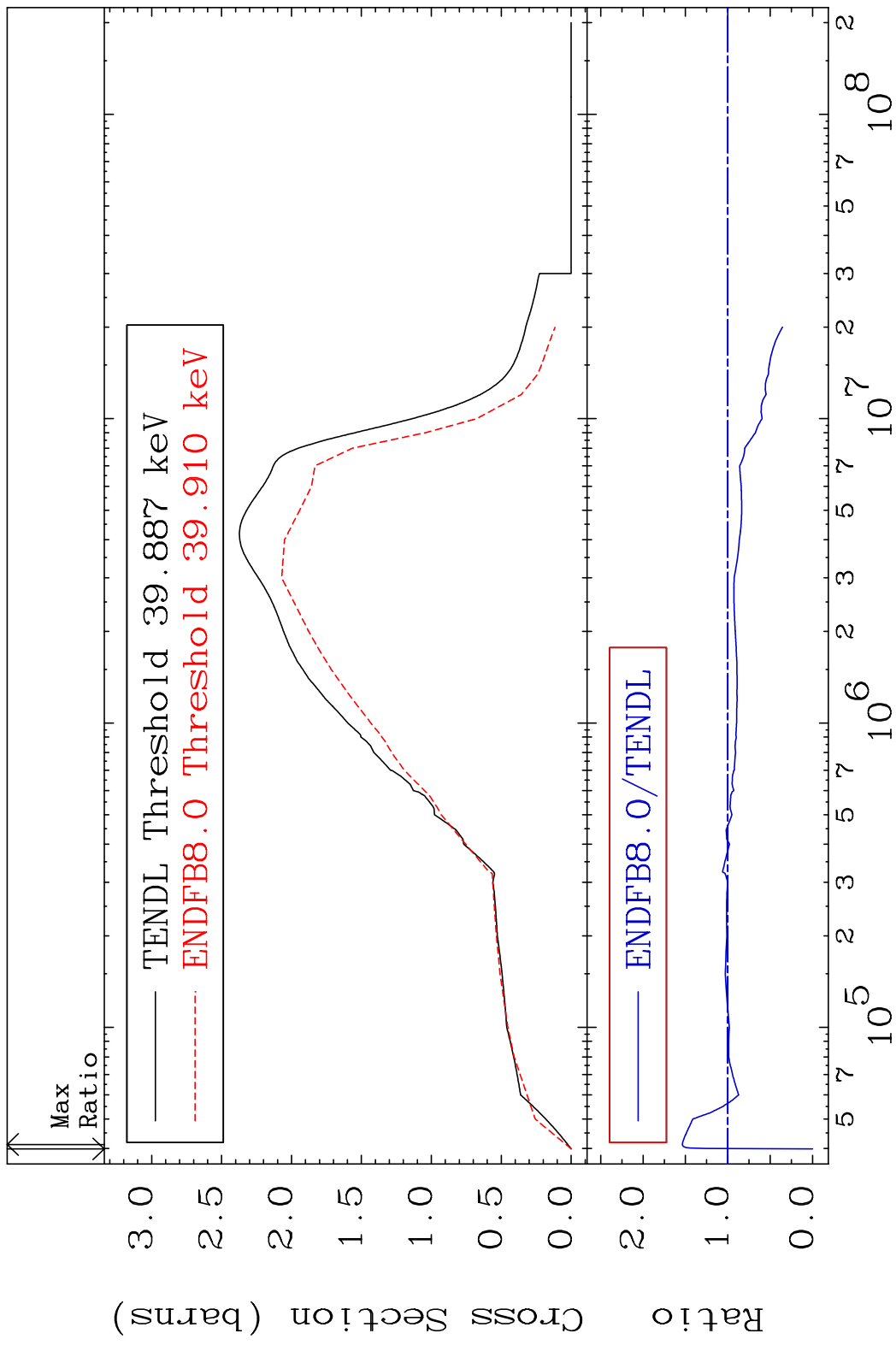


2

Incident Energy (eV)

54-Xe-129

MAT 5440 Inelastic 54-Xe-129
 Cross Section -100.0 To 53.67 %



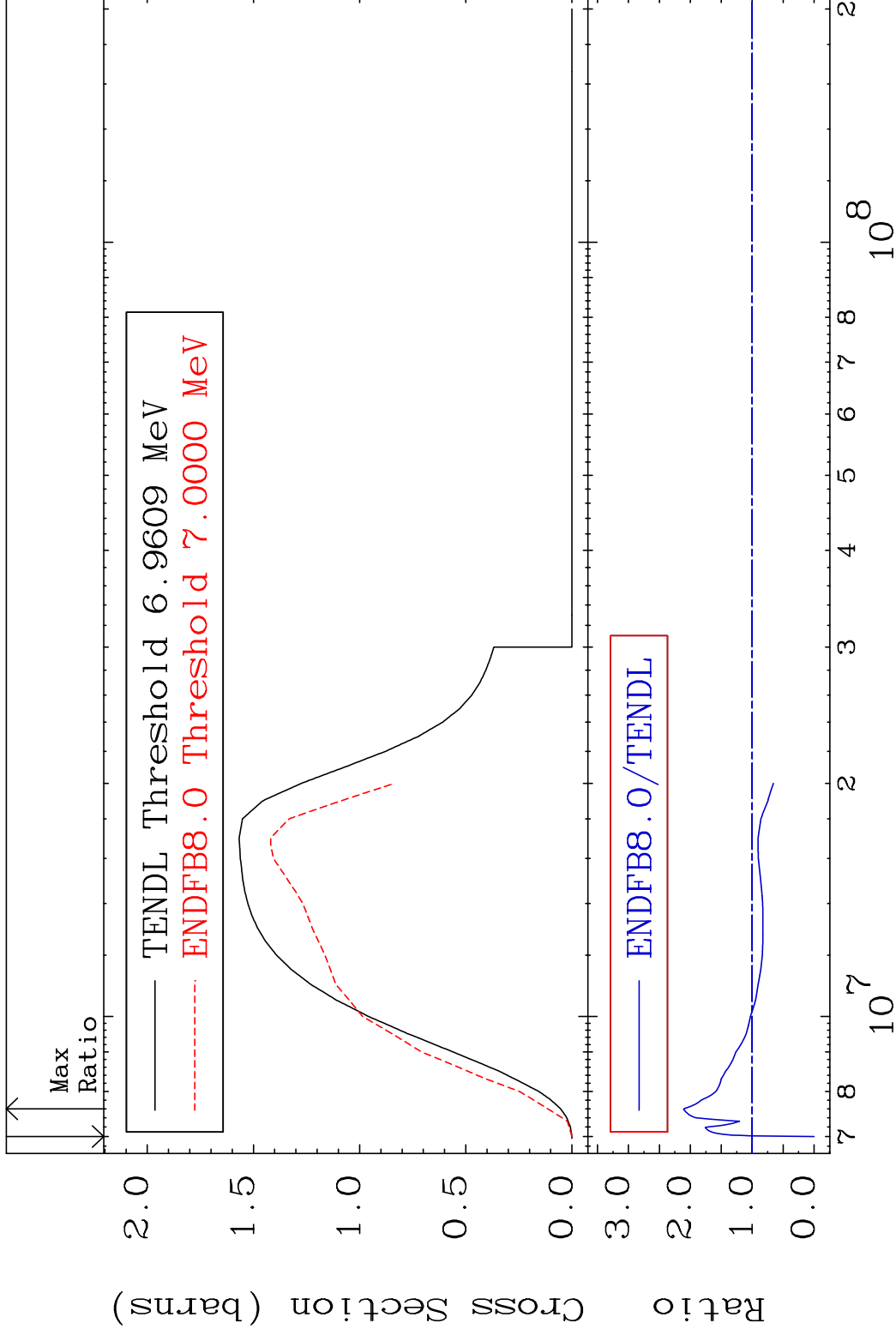
3 Incident Energy (eV) 54-Xe-129

MAT 5440

(n,2n)

54-Xe-129

Cross Section -100.0 To 111.1 %



4

Incident Energy (eV)

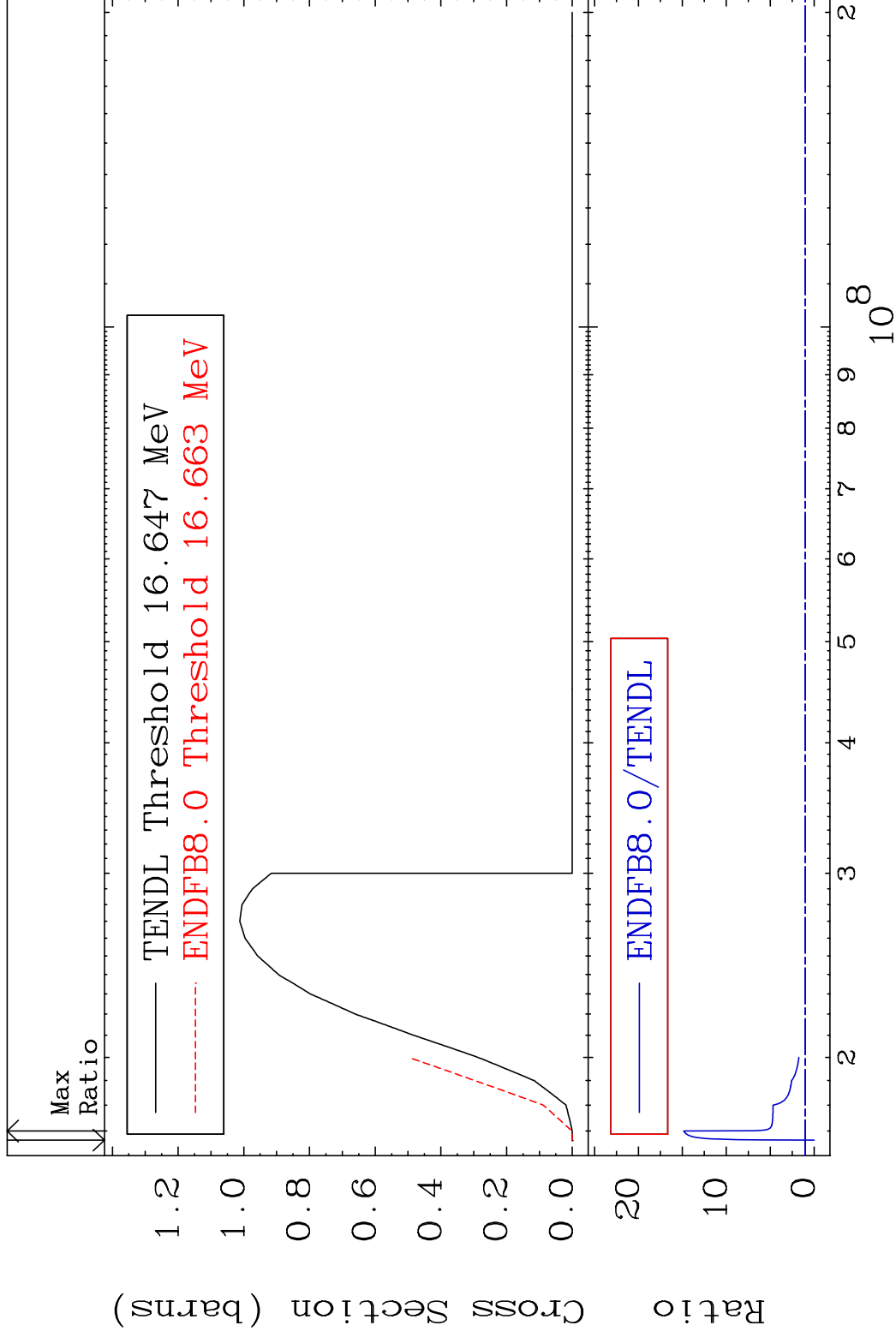
54-Xe-129

MAT 5440

(n,3n)

54-Xe-129

Cross Section -100.0 To 1385. %



5

Incident Energy (eV)

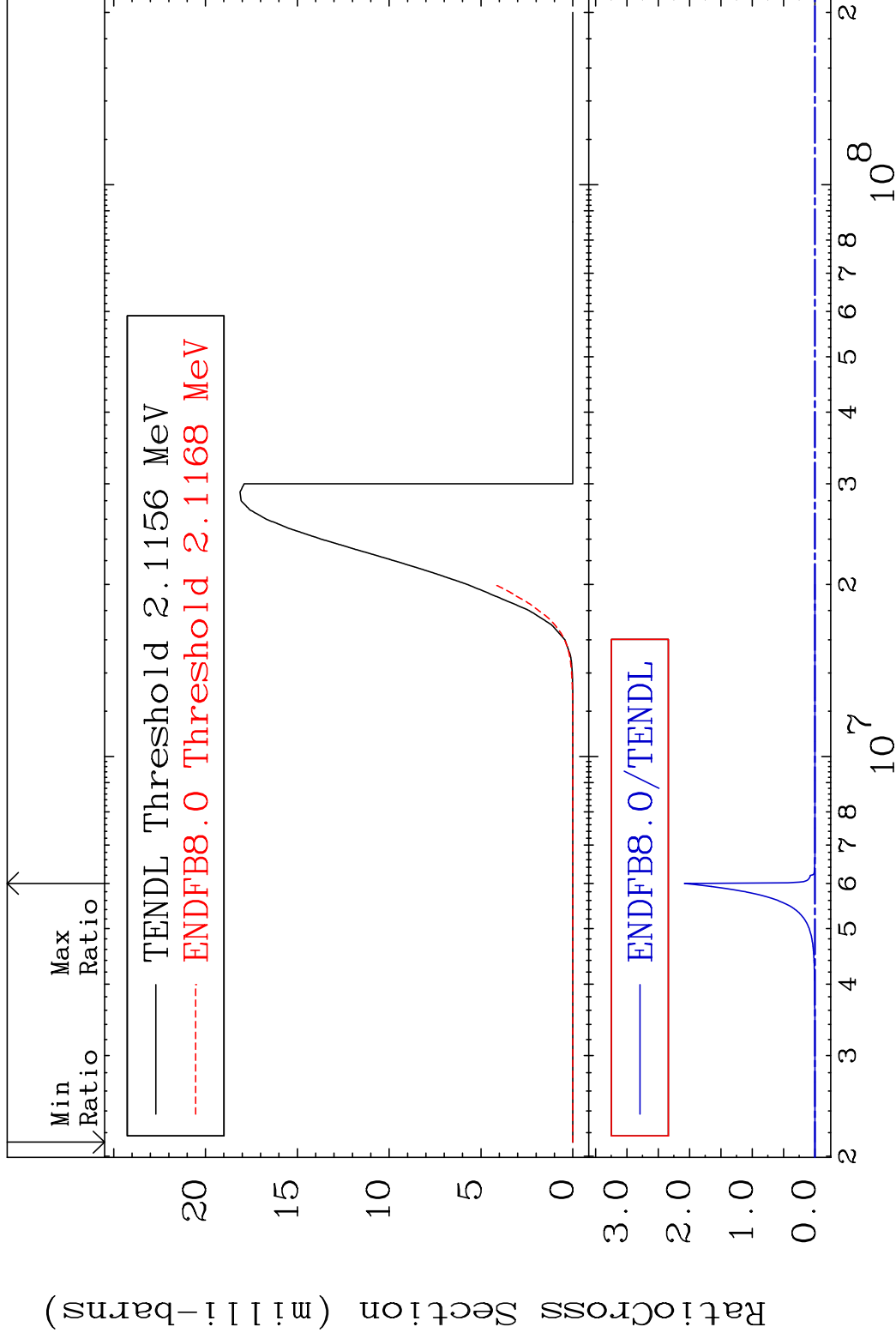
54-Xe-129

MAT 5440

(n, n') α

54-Xe-129

Cross Section -100.0 To 9999. %

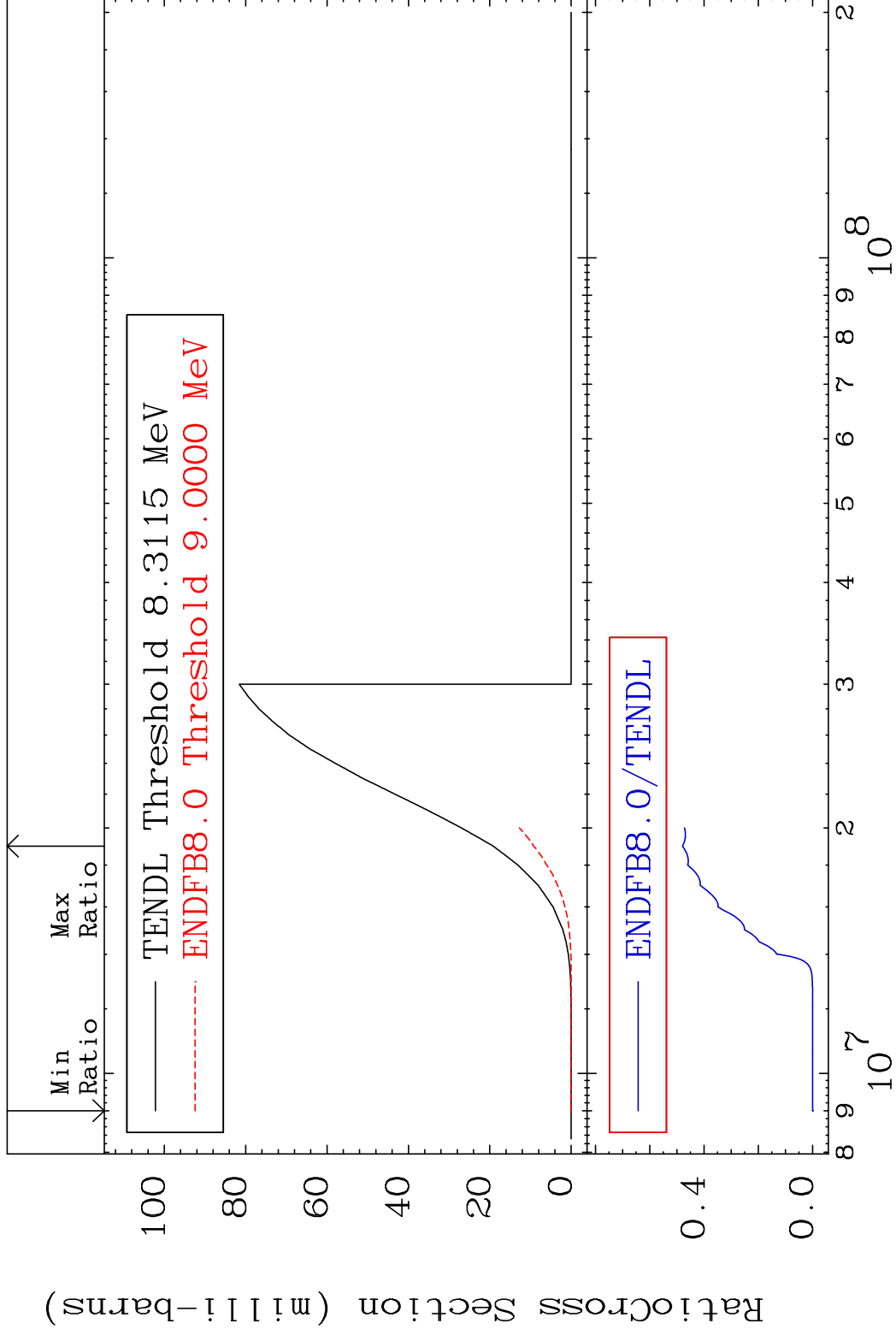


MAT 5440

(n, n') p

54-Xe-129

Cross Section -100.0 To -52.01%



7

Incident Energy (eV)

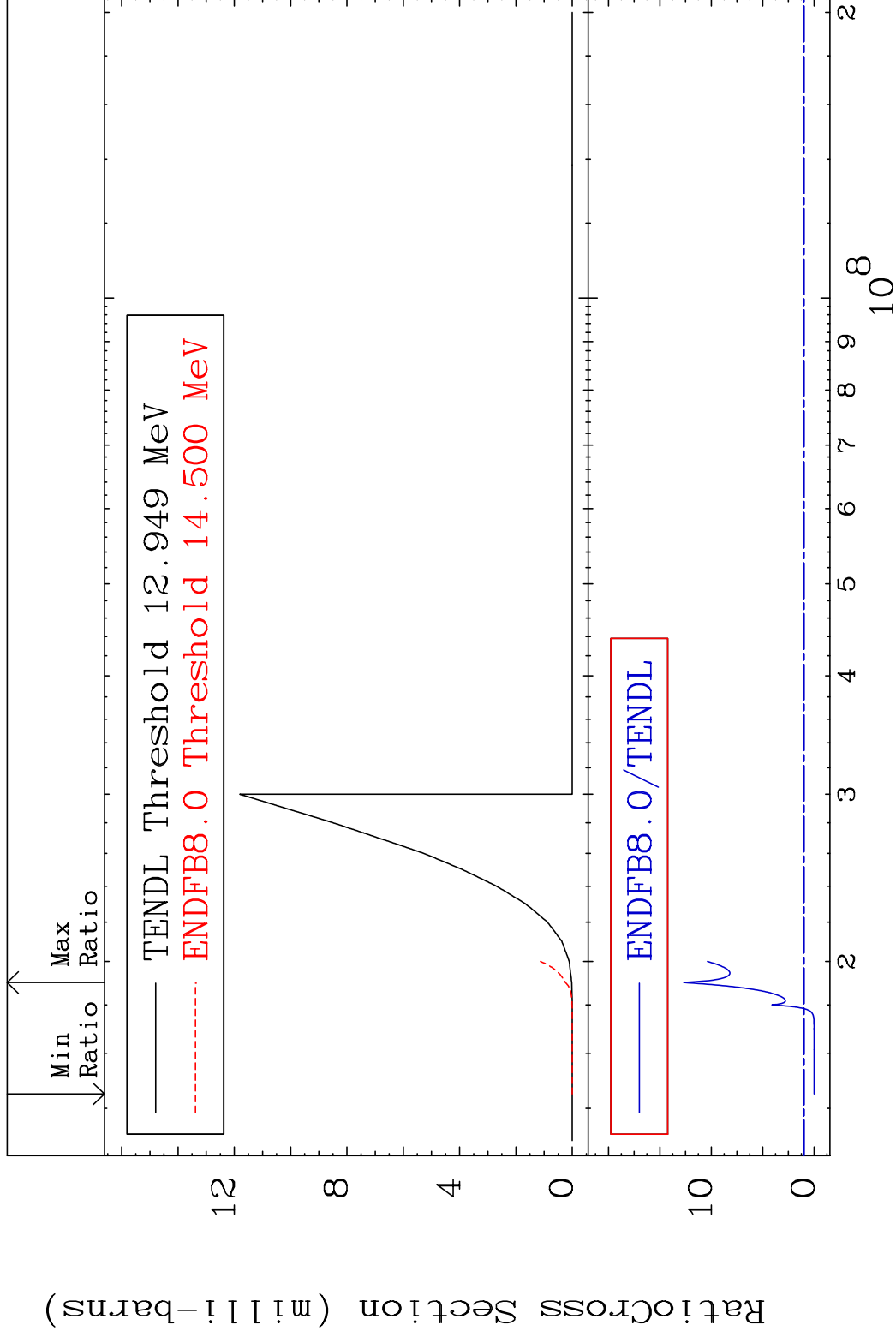
54-Xe-129

MAT 5440

(n, n') d

54-Xe-129

Cross Section -100.0 To 1169. %

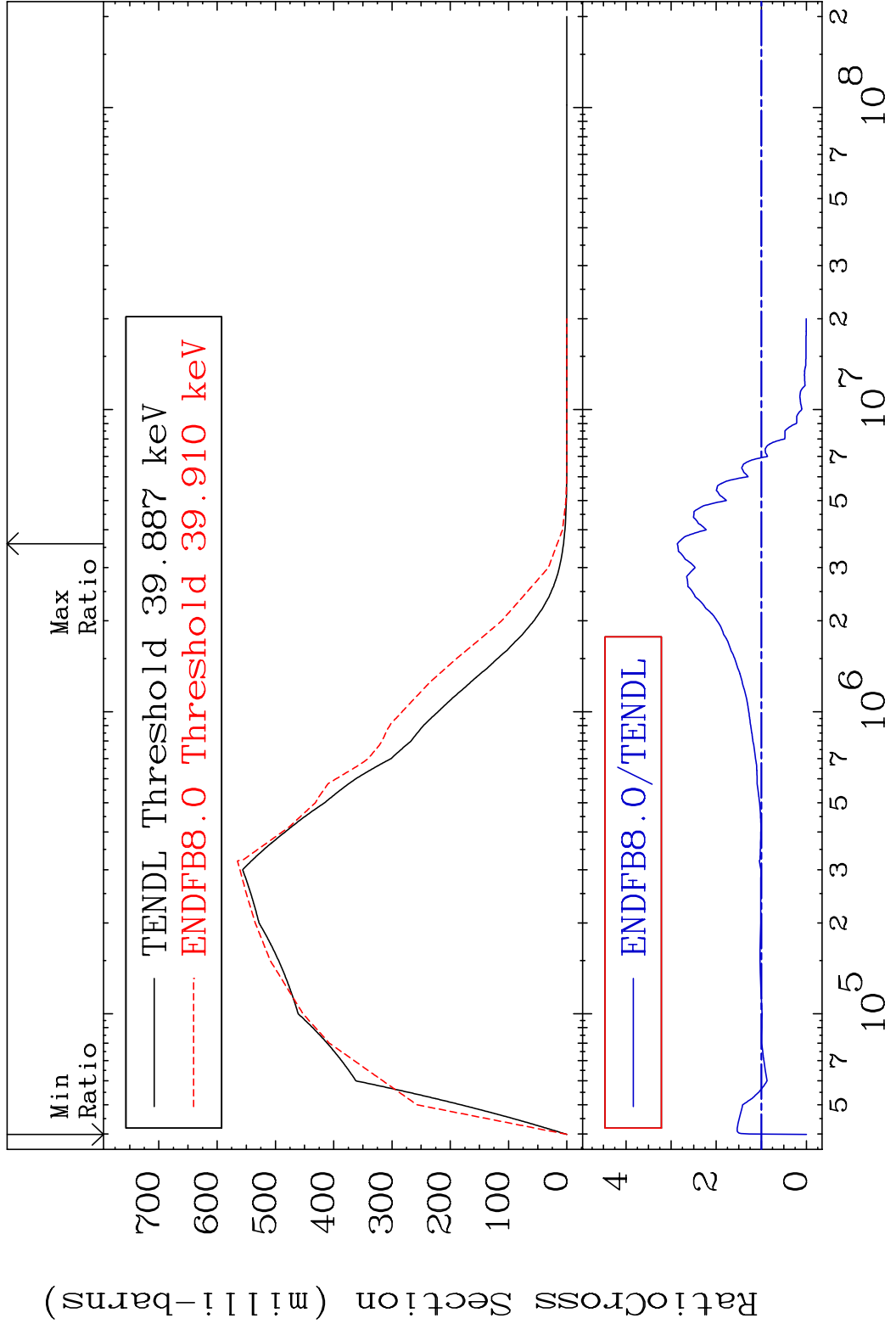


8

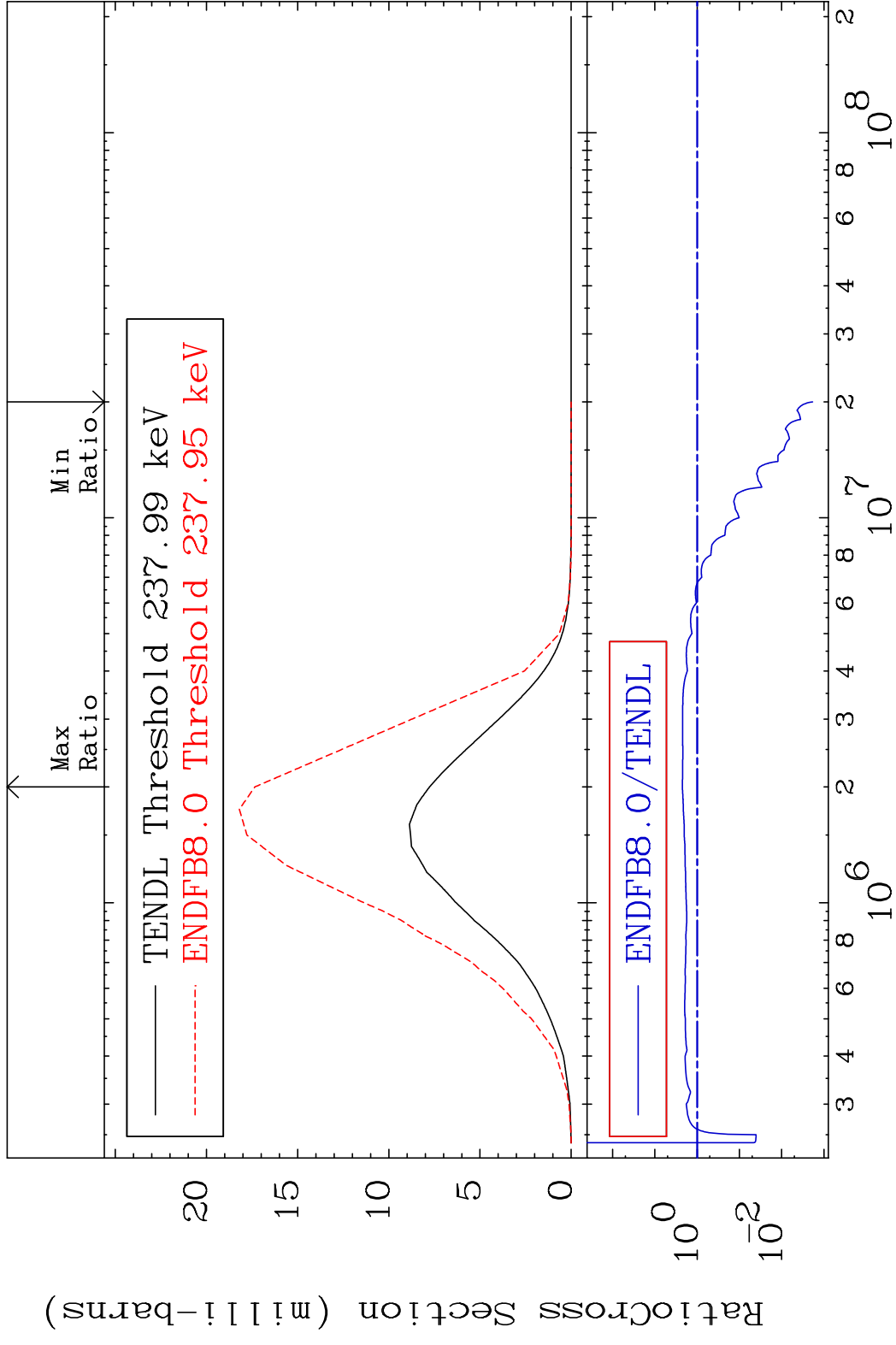
Incident Energy (eV)

54-Xe-129

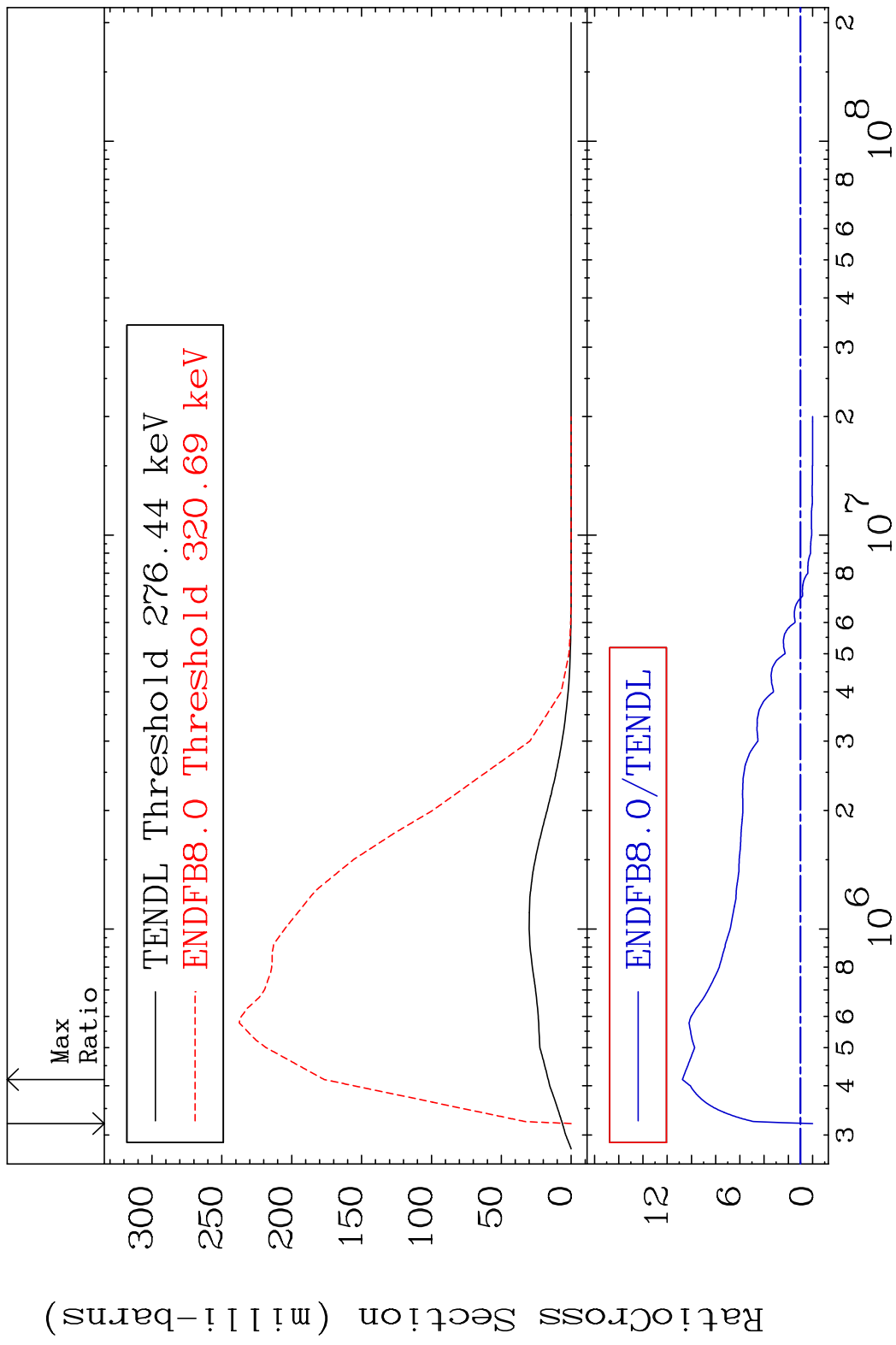
MAT 5440 MT= 51 (n, n') Level 54-Xe-129
 Cross Section -100.0 To 186.6 %



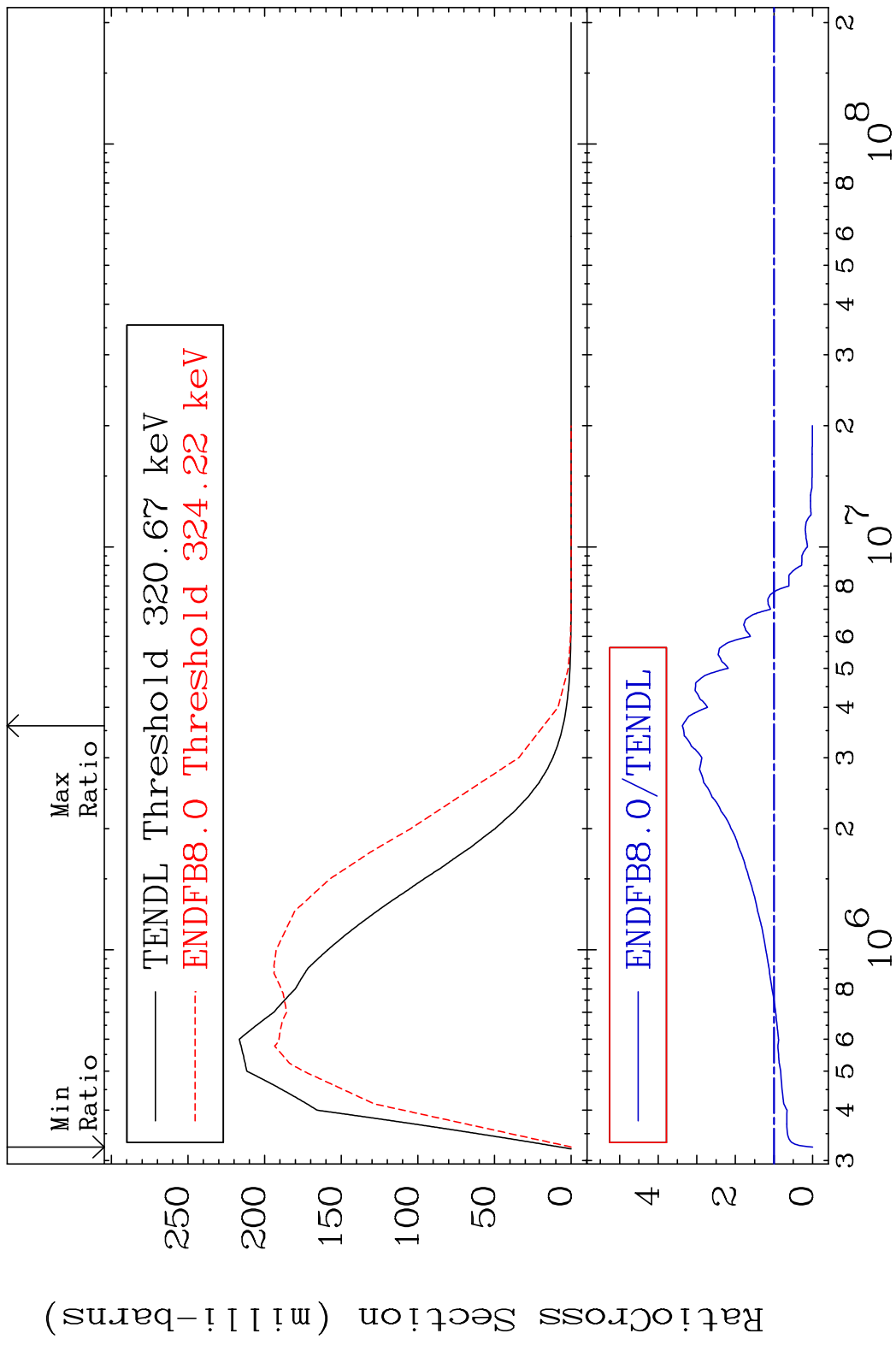
MAT 5440 MT= 52 (n, n') Level 54-Xe-129
 Cross Section -99.81 To 123.3 %



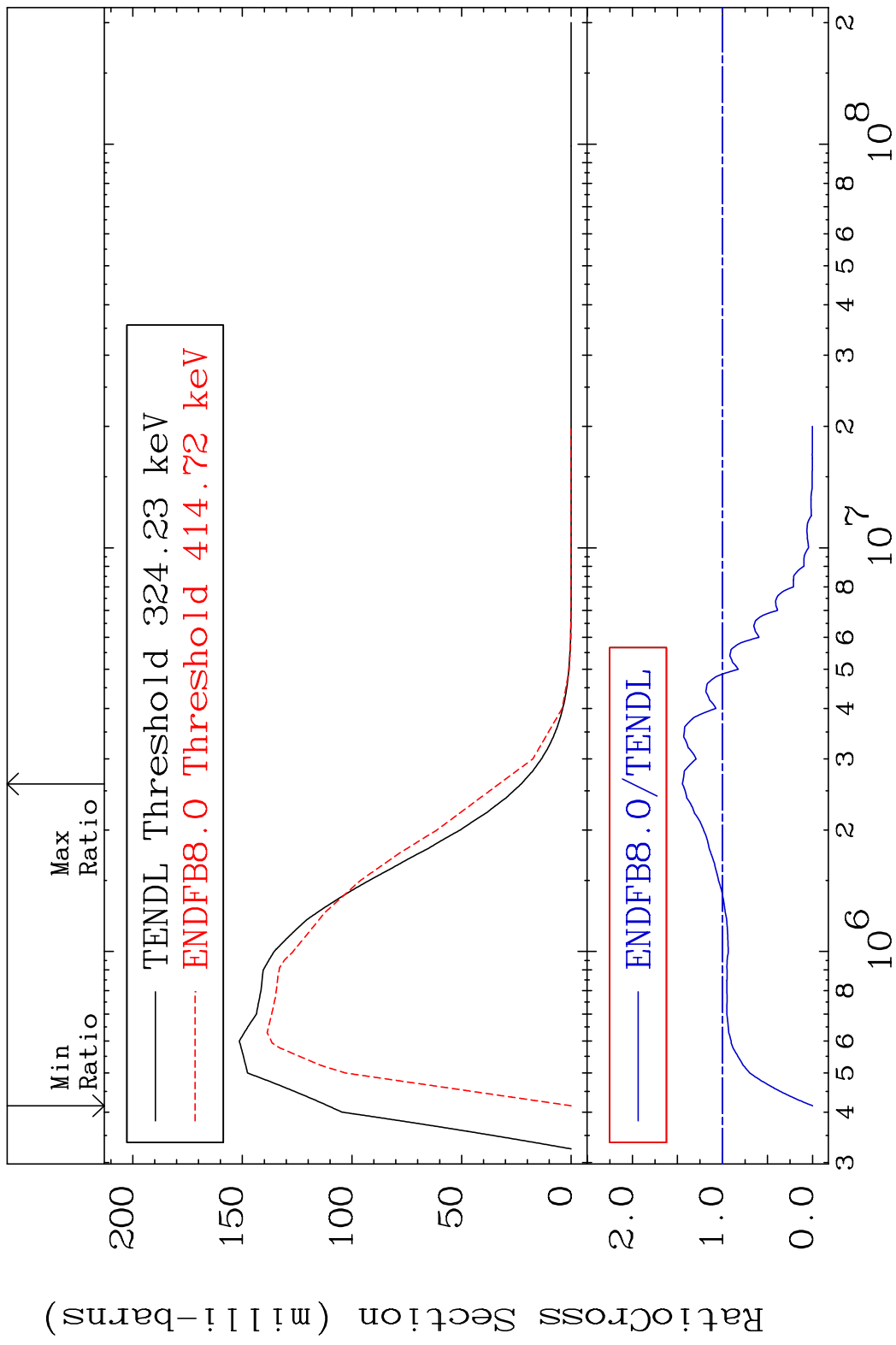
MAT 5440 MT= 53 (n, n') Level 54-Xe-129
 Cross Section -100.0 To 974.9 %



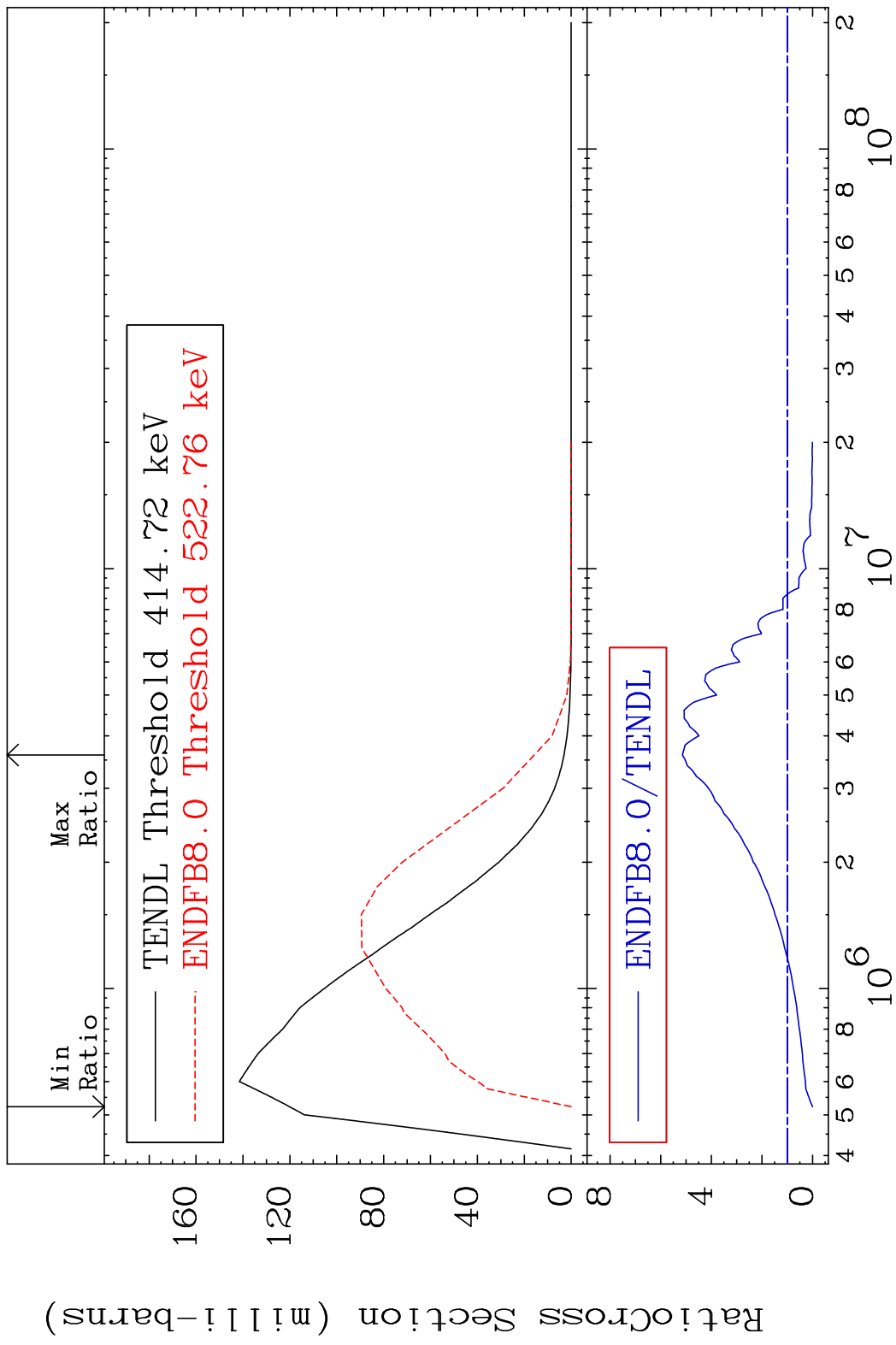
MAT 5440 MT= 54 (n,n') Level 54-Xe-129
 Cross Section -100.0 To 237.4 %



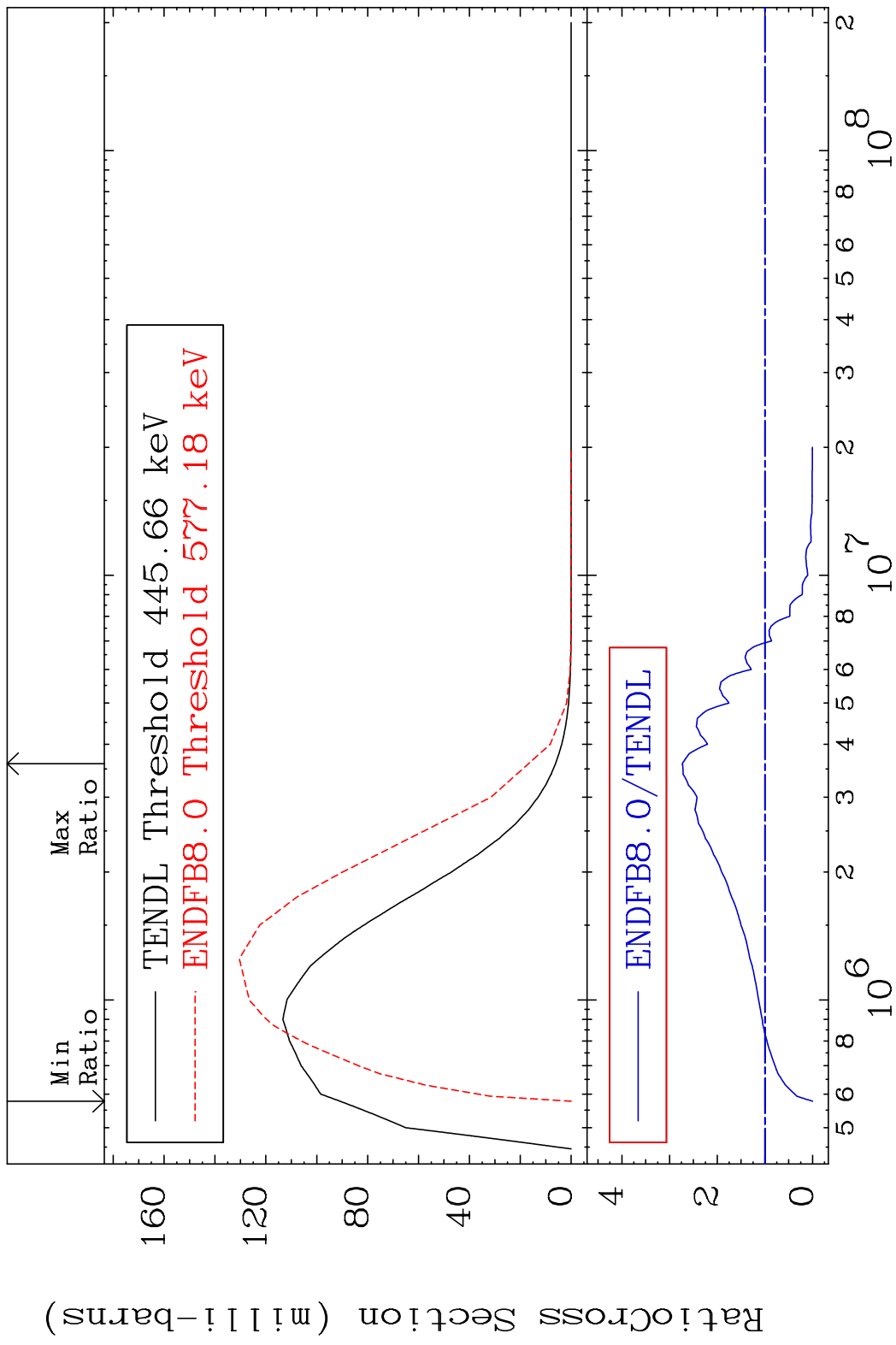
MAT 5440 MT= 55 (n,n') Level 54-Xe-129
 Cross Section -100.0 To 44.55 %



MAT 5440 MT= 56 (n,n') Level 54-Xe-129
 Cross Section -100.0 To 414.4 %

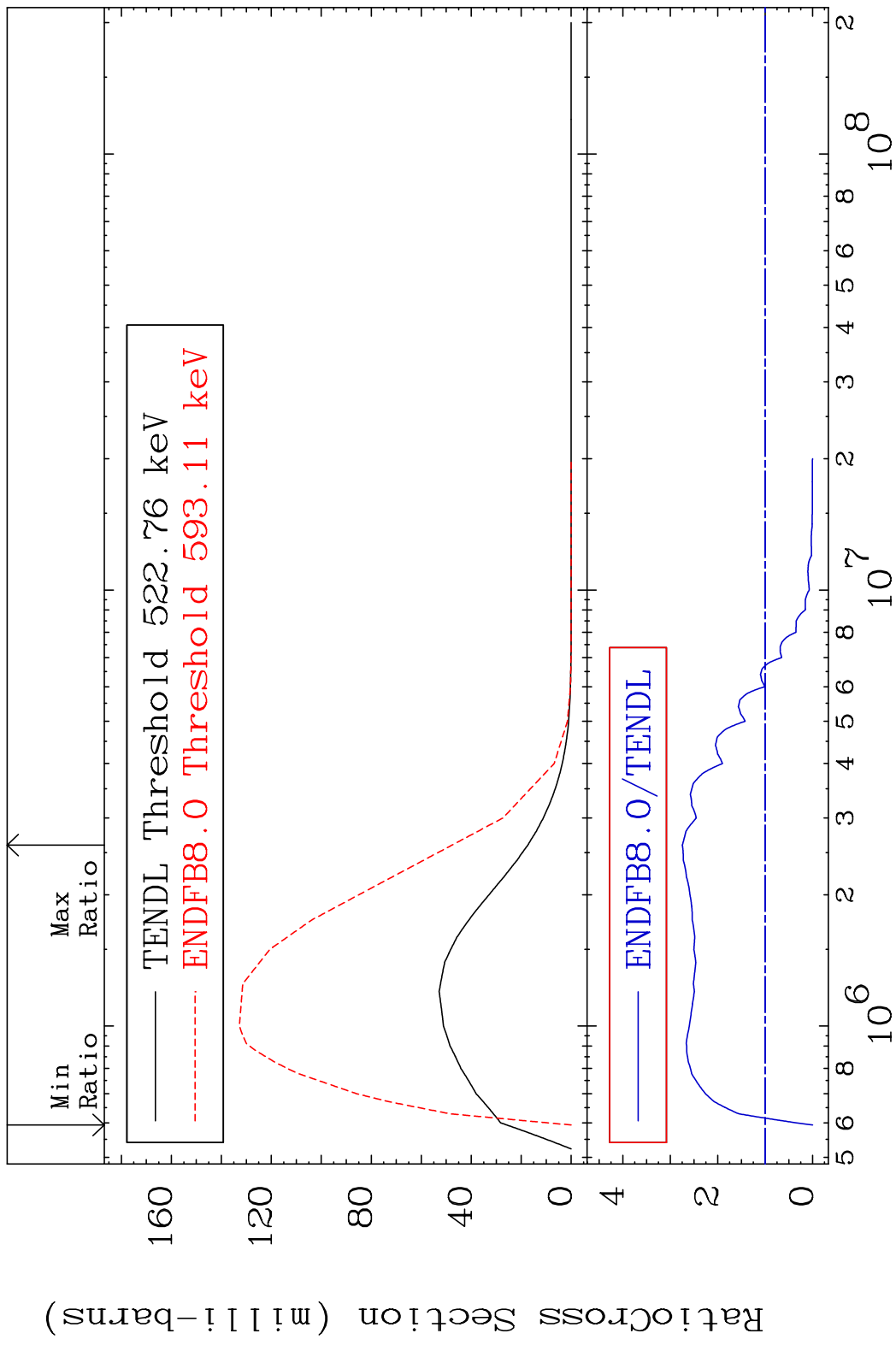


MAT 5440 MT= 57 (n, n') Level 54-Xe-129
 Cross Section -100.0 To 173.2 %

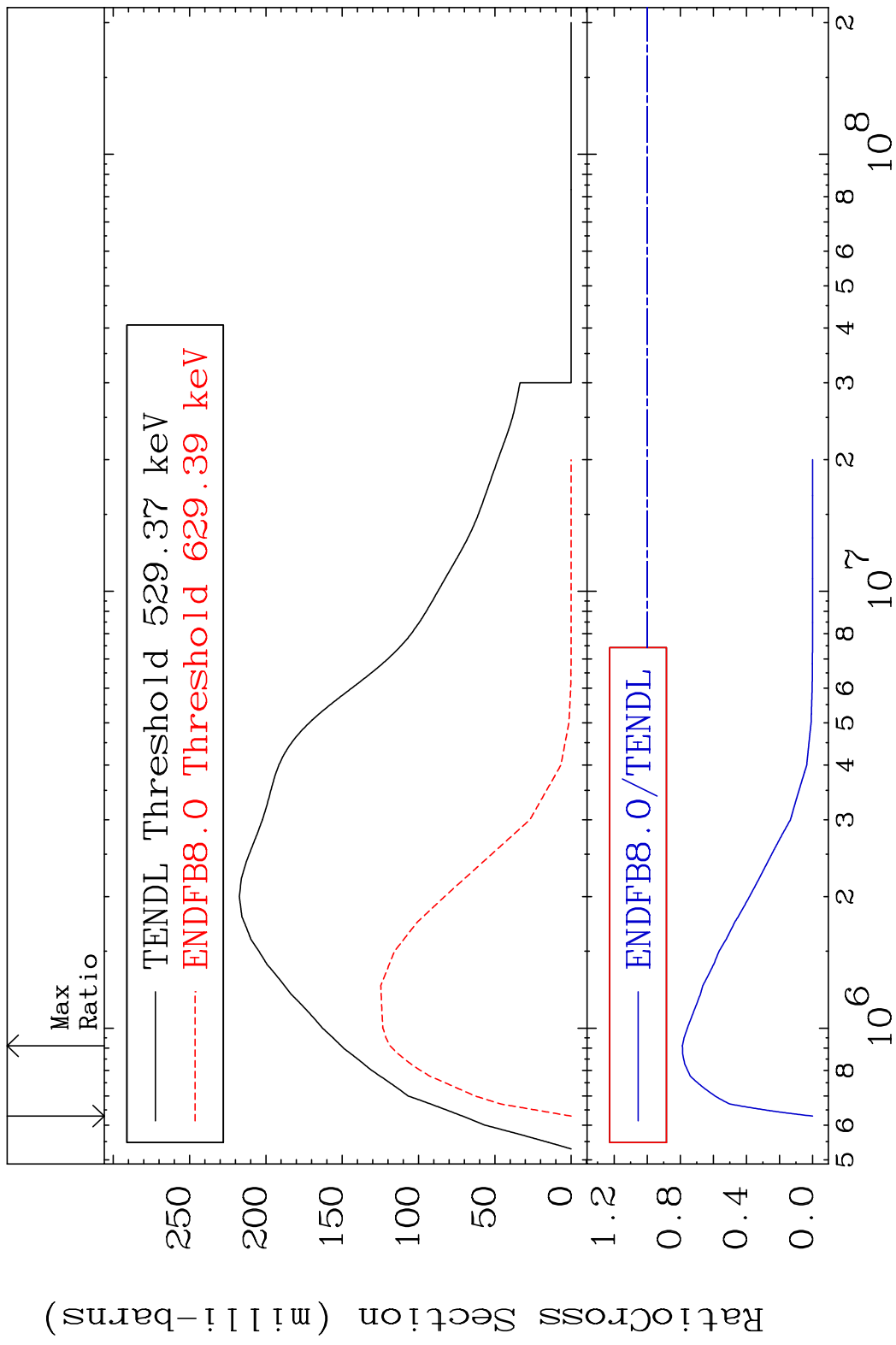


15 54-Xe-129

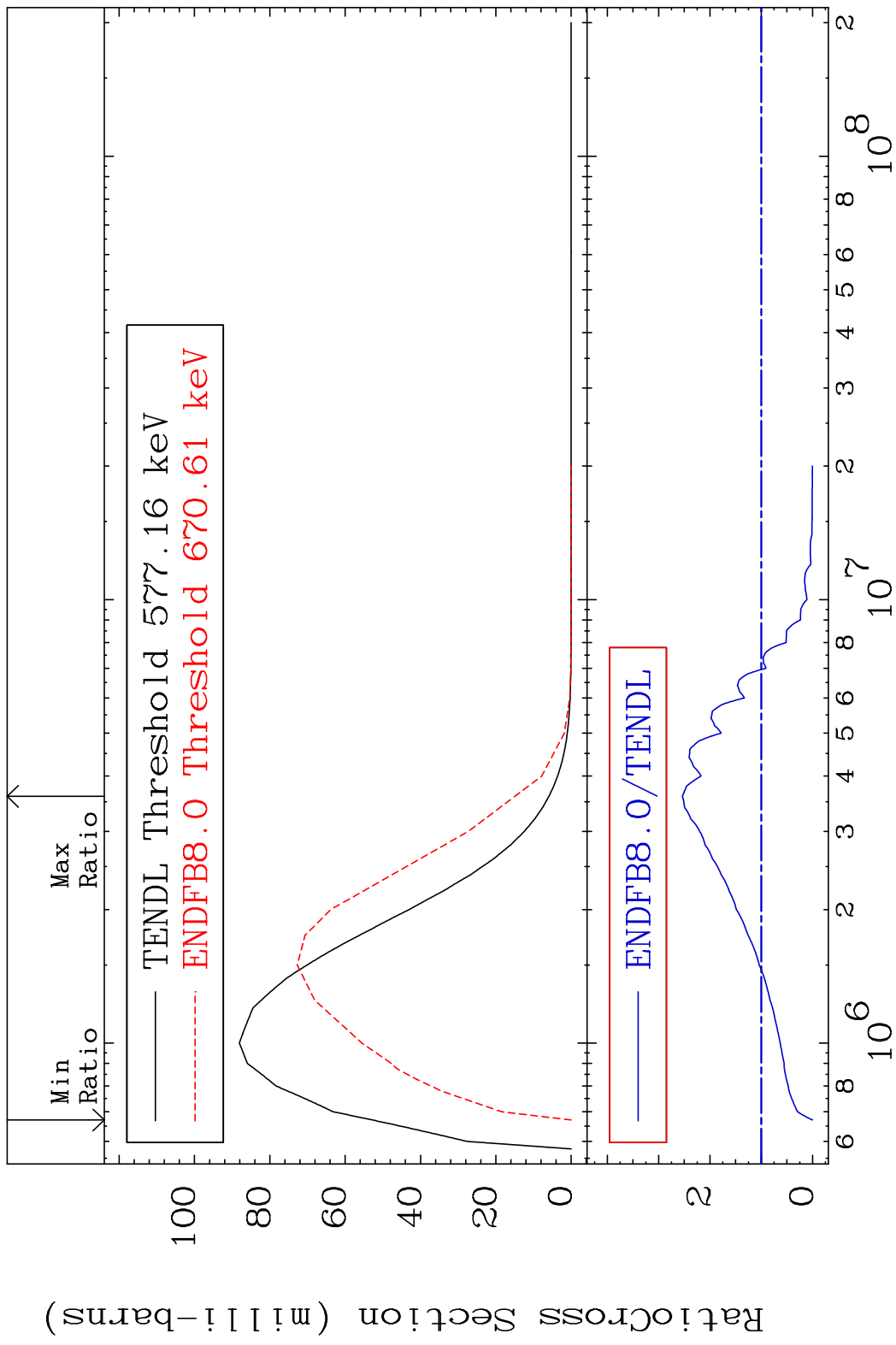
MAT 5440 MT= 58 (n, n') Level 54-Xe-129
 Cross Section -100.0 To 174.6 %



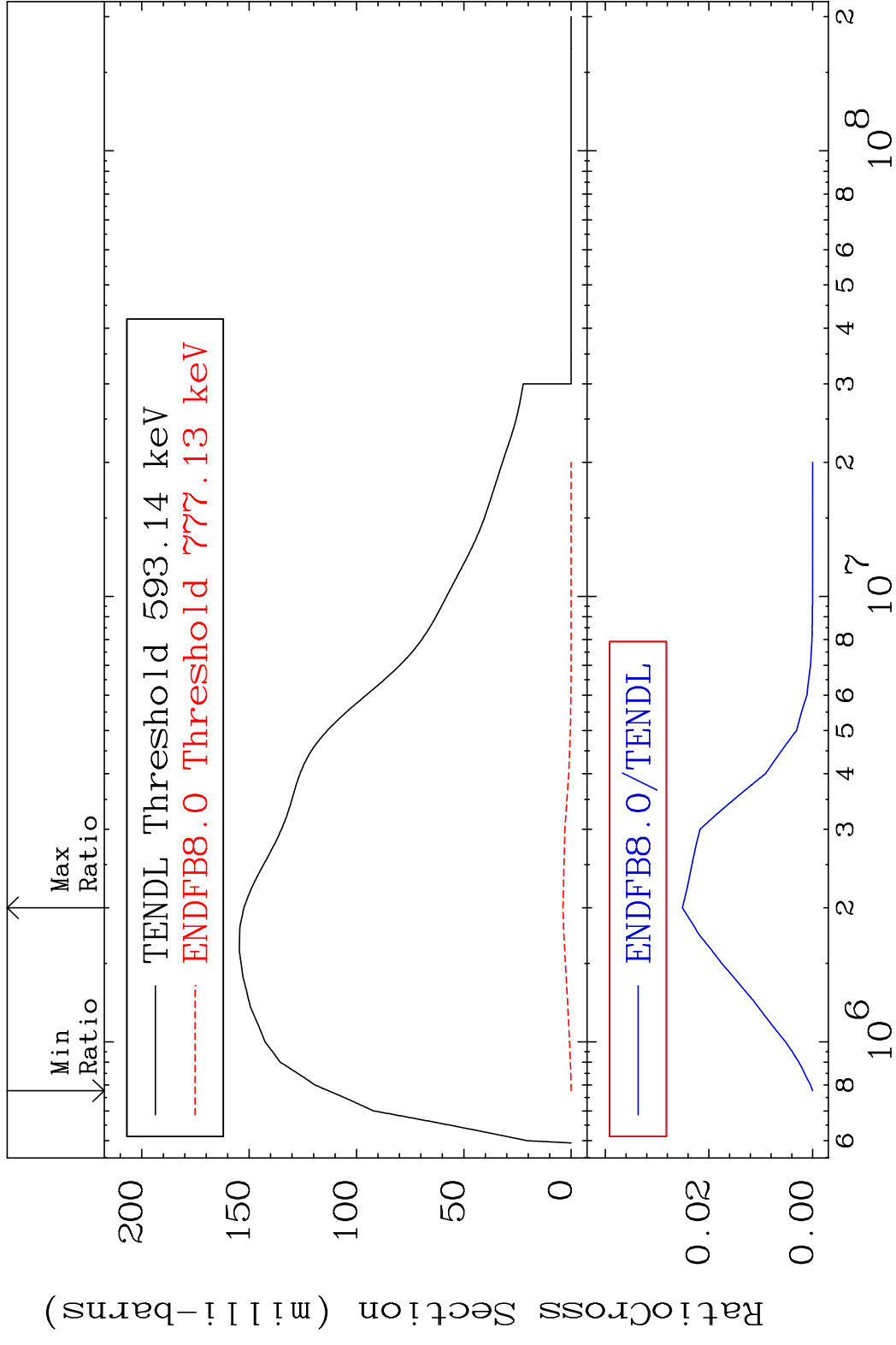
MAT 5440 MT= 59 (n, n') Level 54-Xe-129
 Cross Section -100.0 To -21.24%



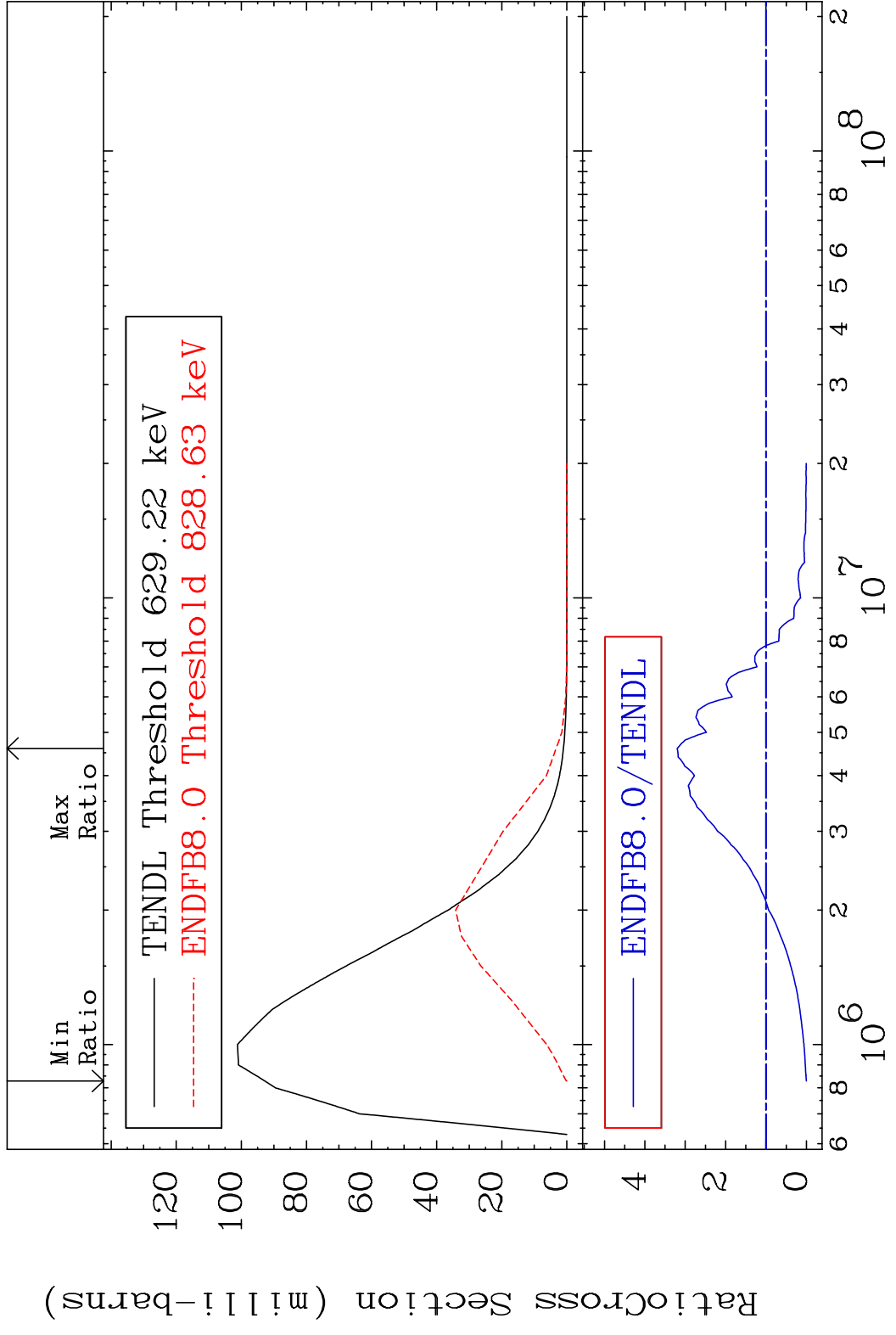
MAT 5440 MT= 60 (n, n') Level 54-Xe-129
 Cross Section -100.0 To 153.7 %



MAT 5440 MT= 61 (n, n') Level 54-Xe-129
 Cross Section -100.0 To -97.49%

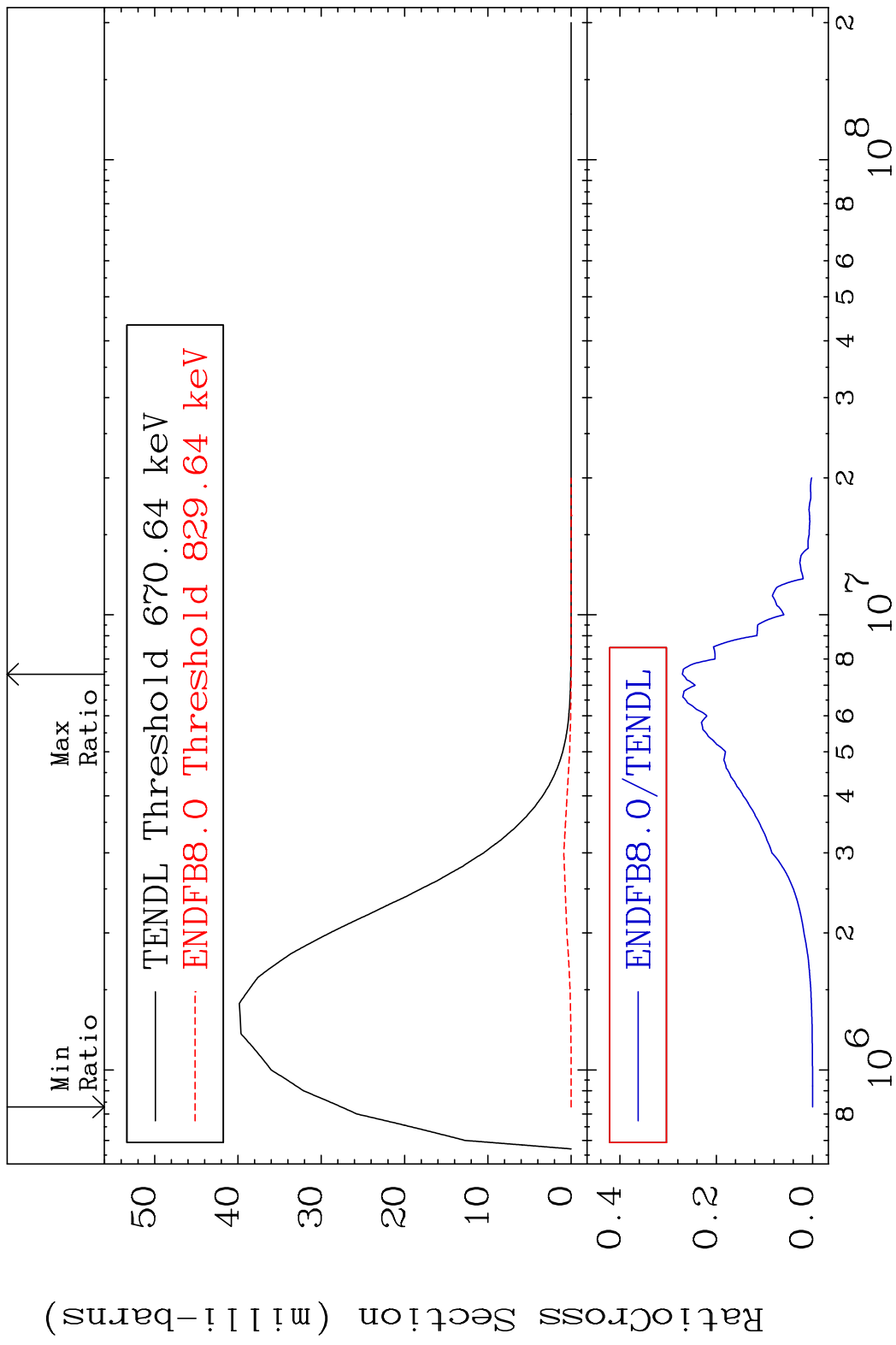


MAT 5440 MT= 62 (n, n') Level 54-Xe-129
 Cross Section -100.0 To 219.9 %

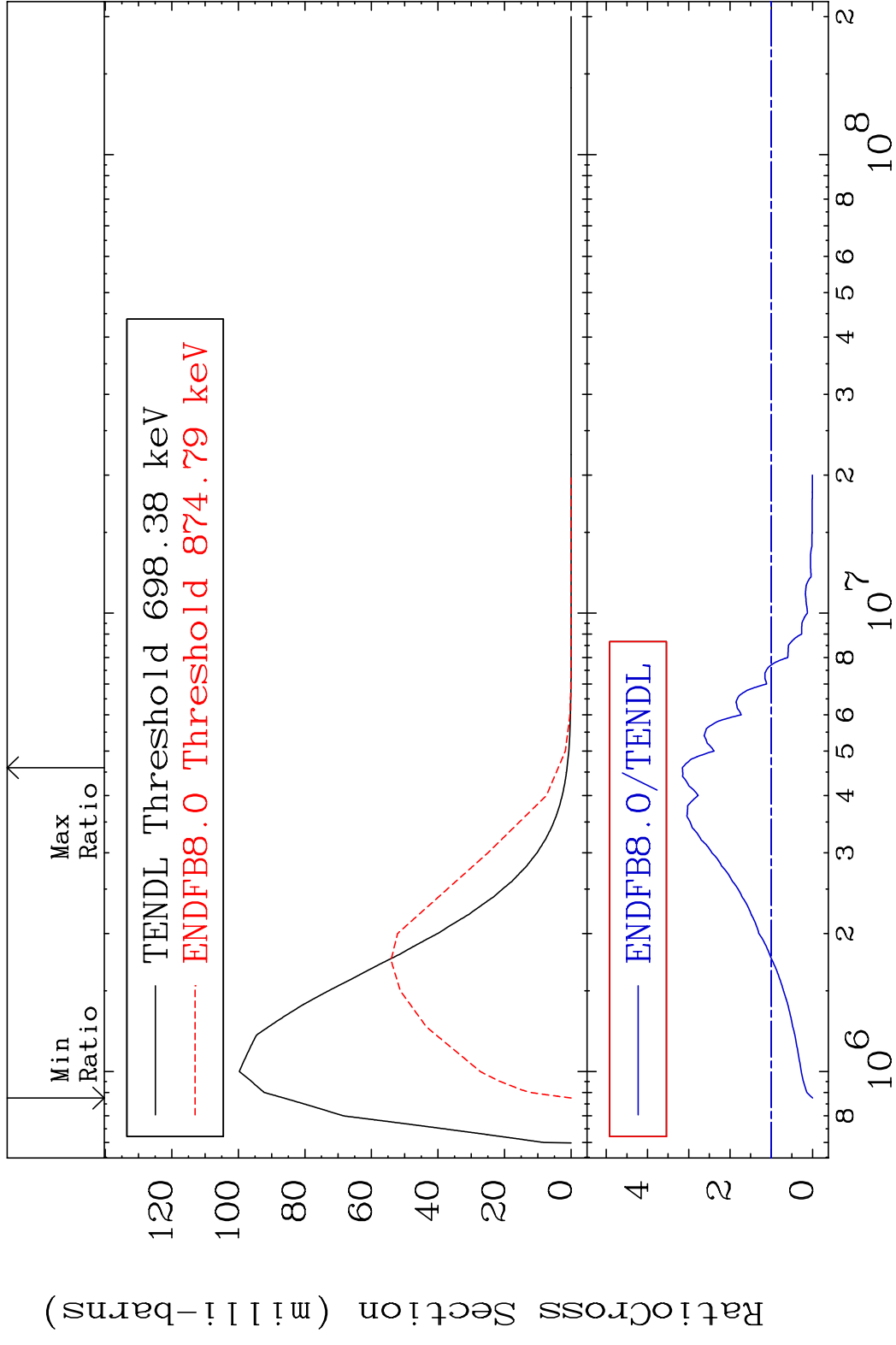


20 Incident Energy (eV) 54-Xe-129

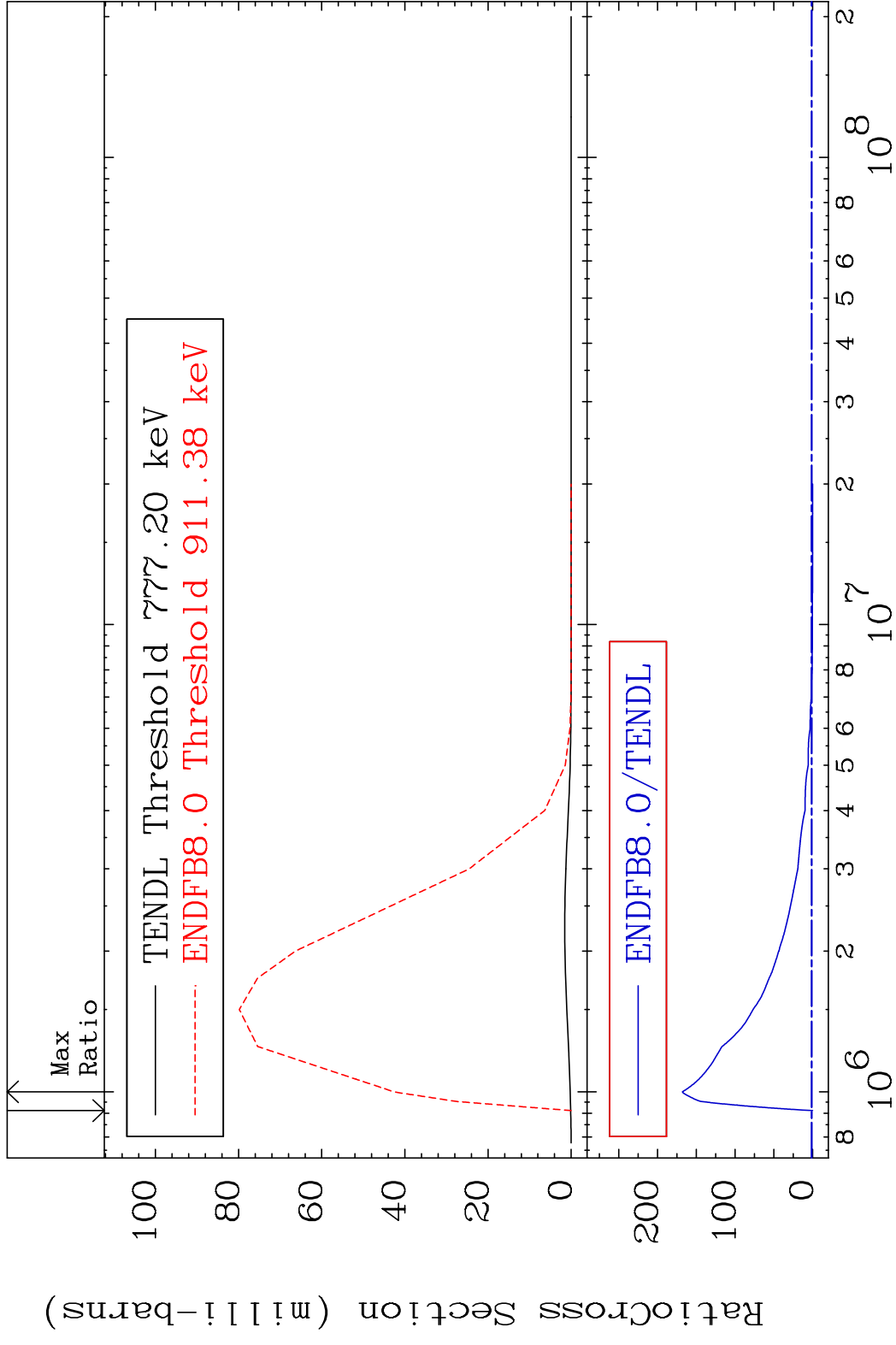
MAT 5440 MT= 63 (n, n') Level 54-Xe-129
 Cross Section -100.0 To -72.96%



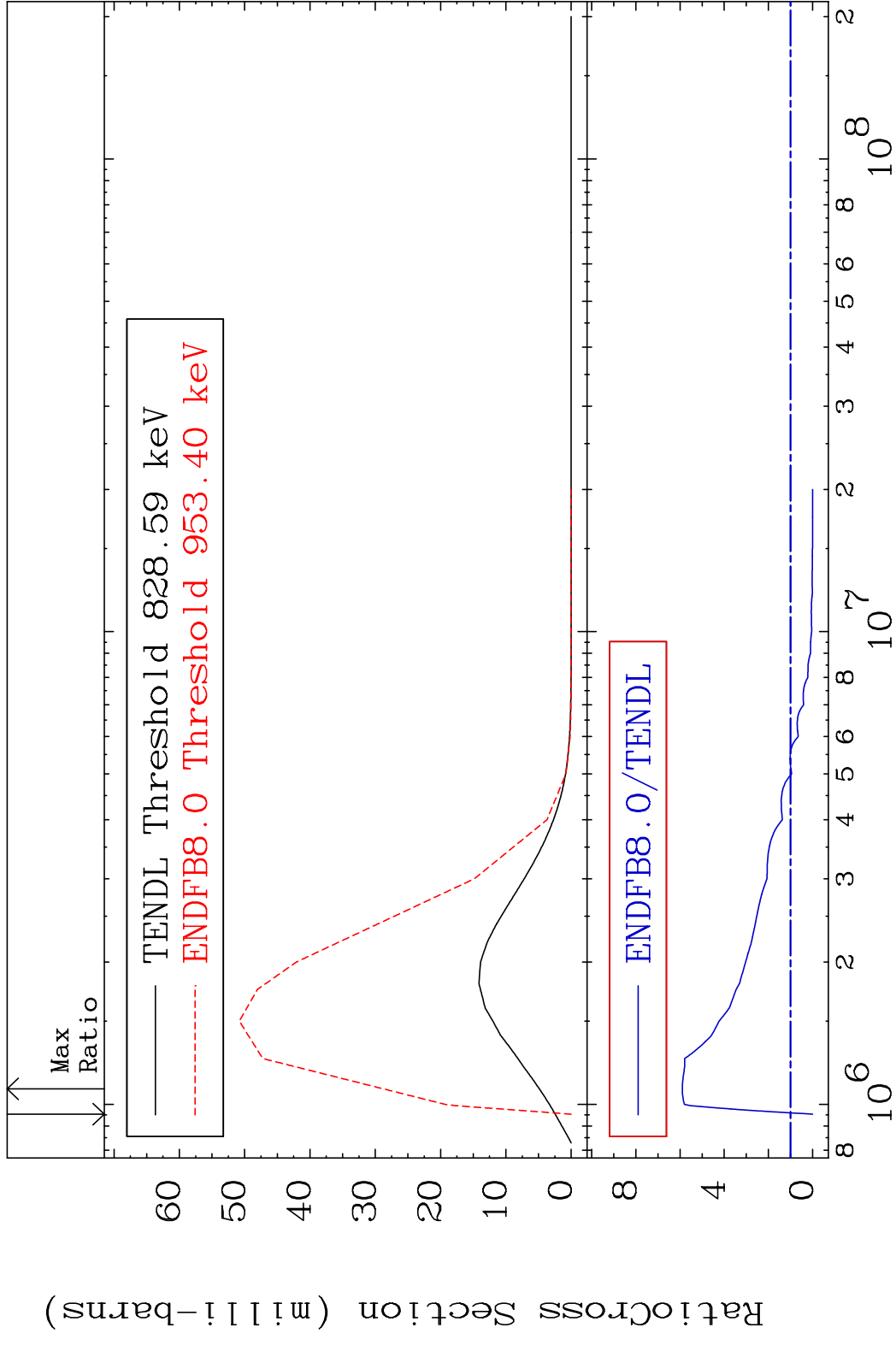
MAT 5440 MT= 64 (n, n') Level 54-Xe-129
 Cross Section -100.0 To 215.5 %



MAT 5440 MT= 65 (n,n') Level 54-Xe-129
 Cross Section -100.0 To 9999. %



MAT 5440 MT= 66 (n,n') Level 54-Xe-129
 Cross Section -100.0 To 489.5 %

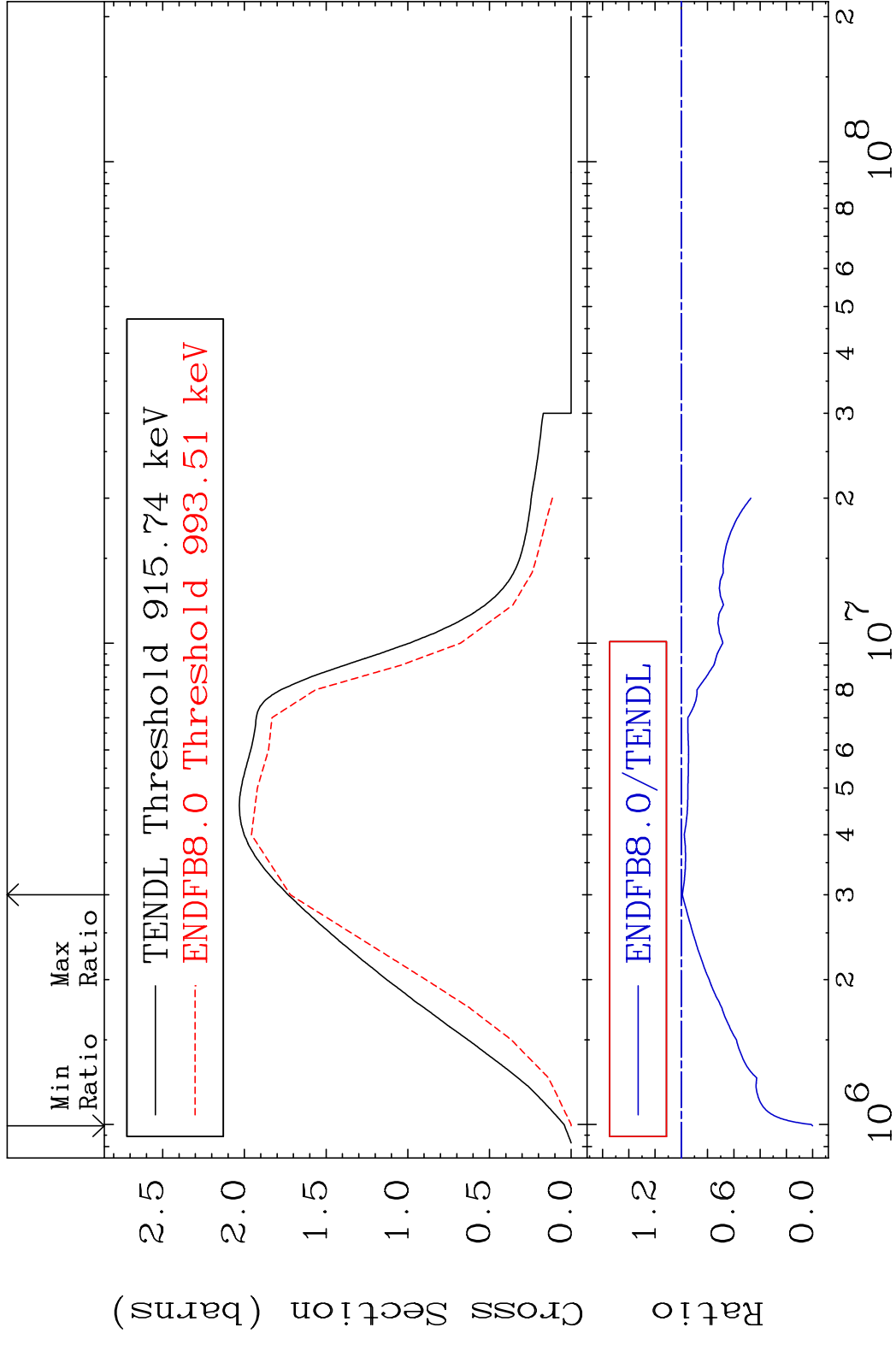


MAT 5440

(n, n') Continuum

54-Xe-129

Cross Section -100.0 To -0.773%



25

Incident Energy (eV)

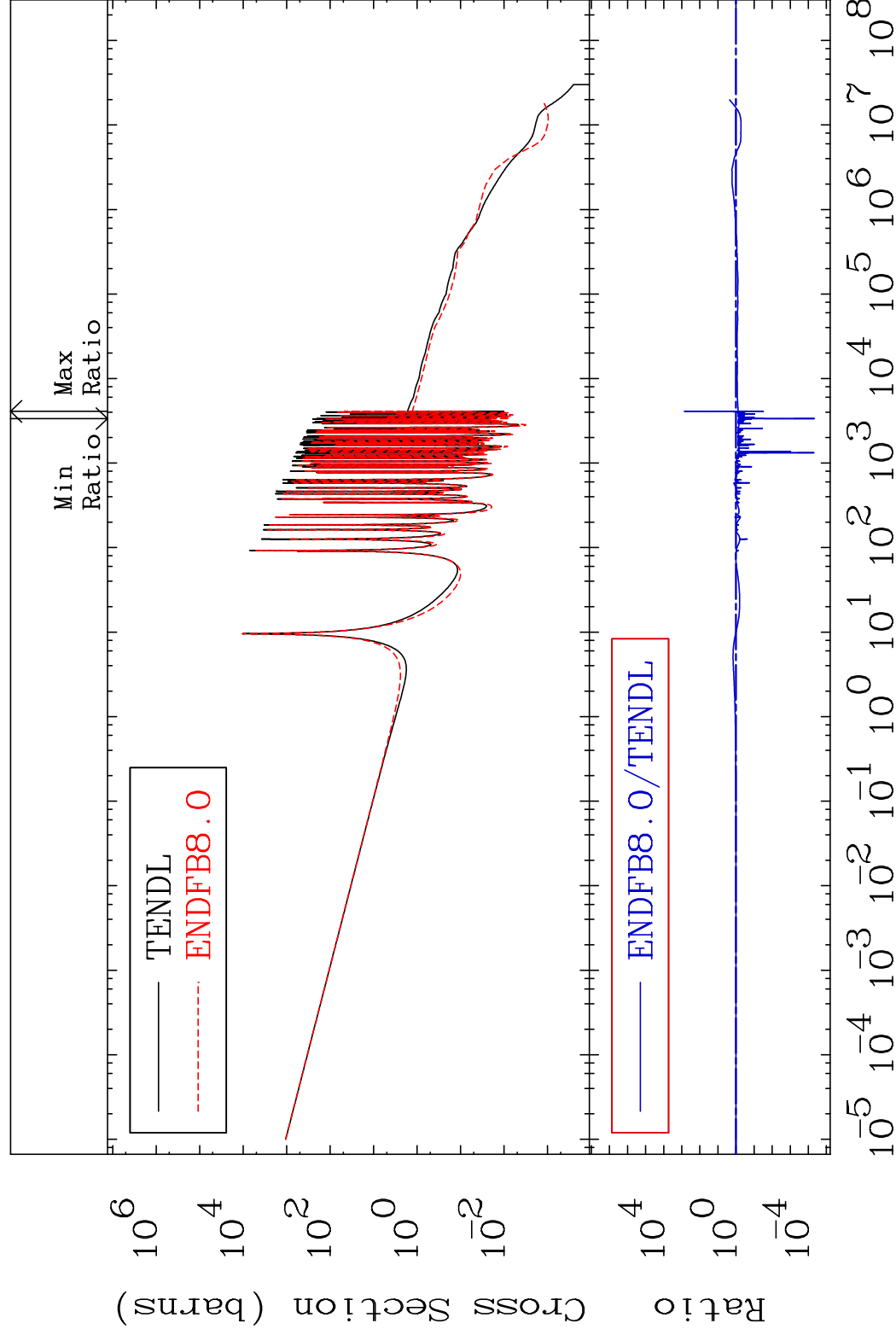
54-Xe-129

MAT 5440

(n, γ)

54-Xe-129

Cross Section -100.0 To 9999. %



26

Incident Energy (eV)

54-Xe-129

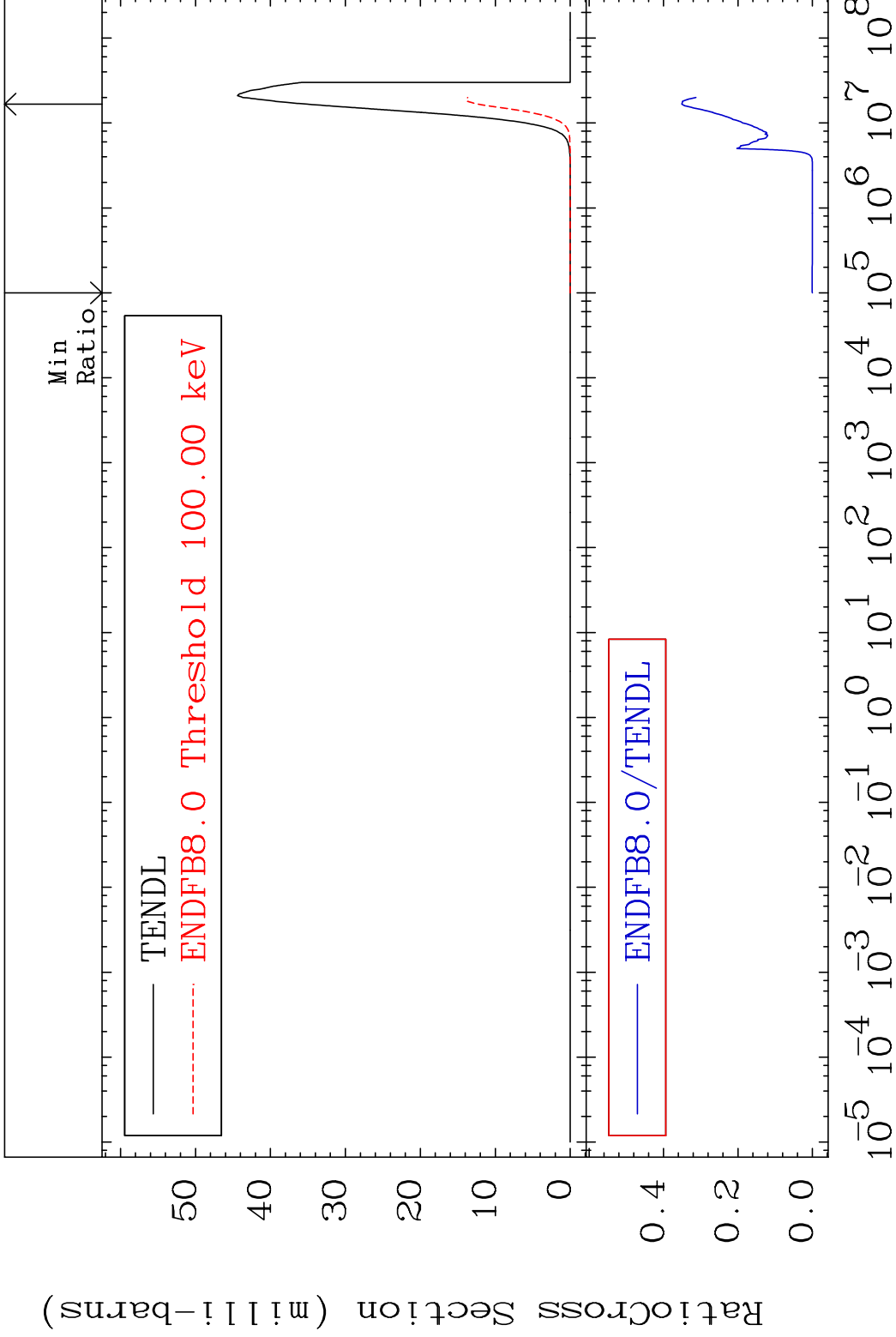
MAT 5440

(n, p)

54-Xe-129

Cross Section

-100.0 To -64.90%



27

Incident Energy (eV)

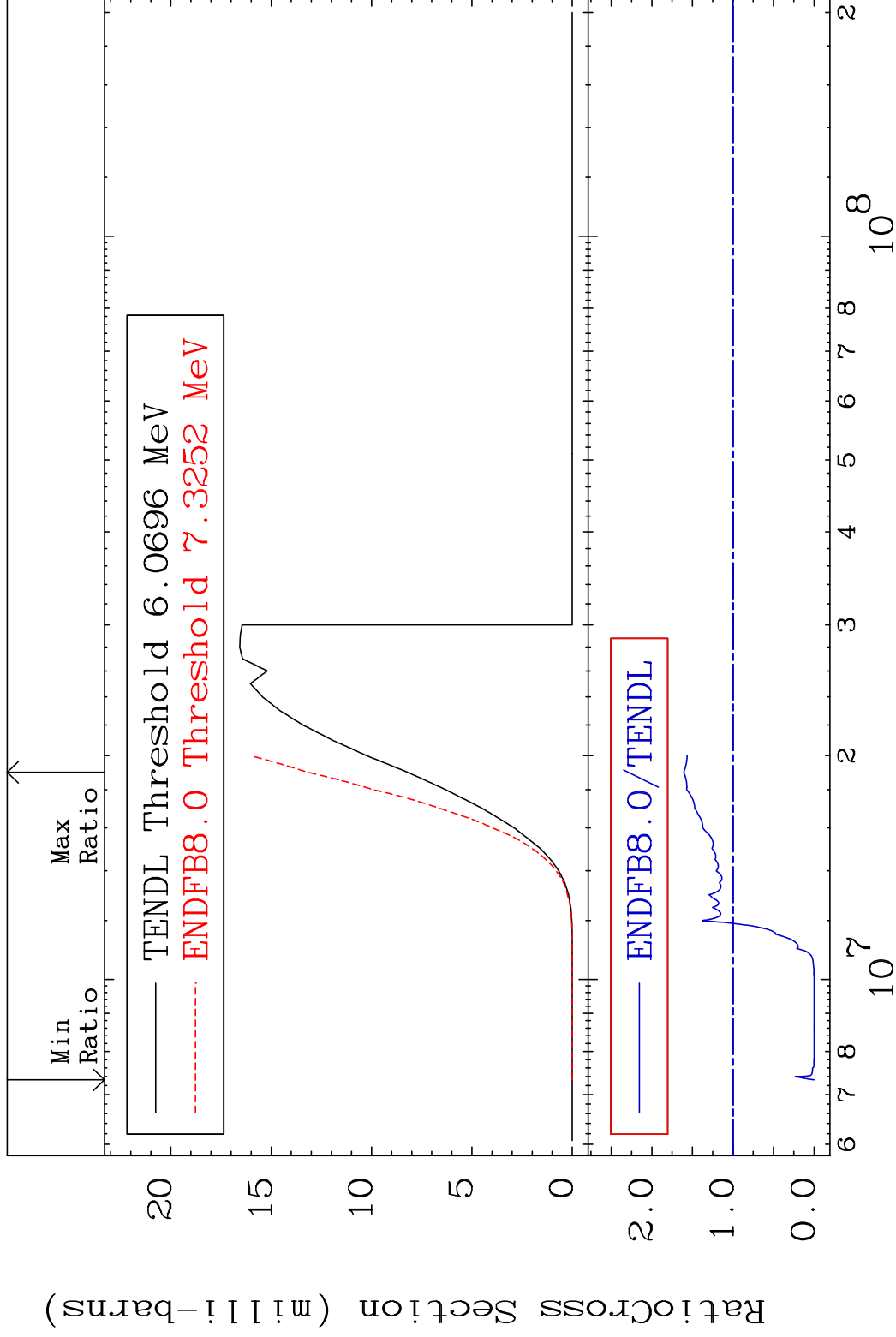
54-Xe-129

MAT 5440

(n,d)

54-Xe-129

Cross Section -100.0 To 60.80 %



28

Incident Energy (eV)

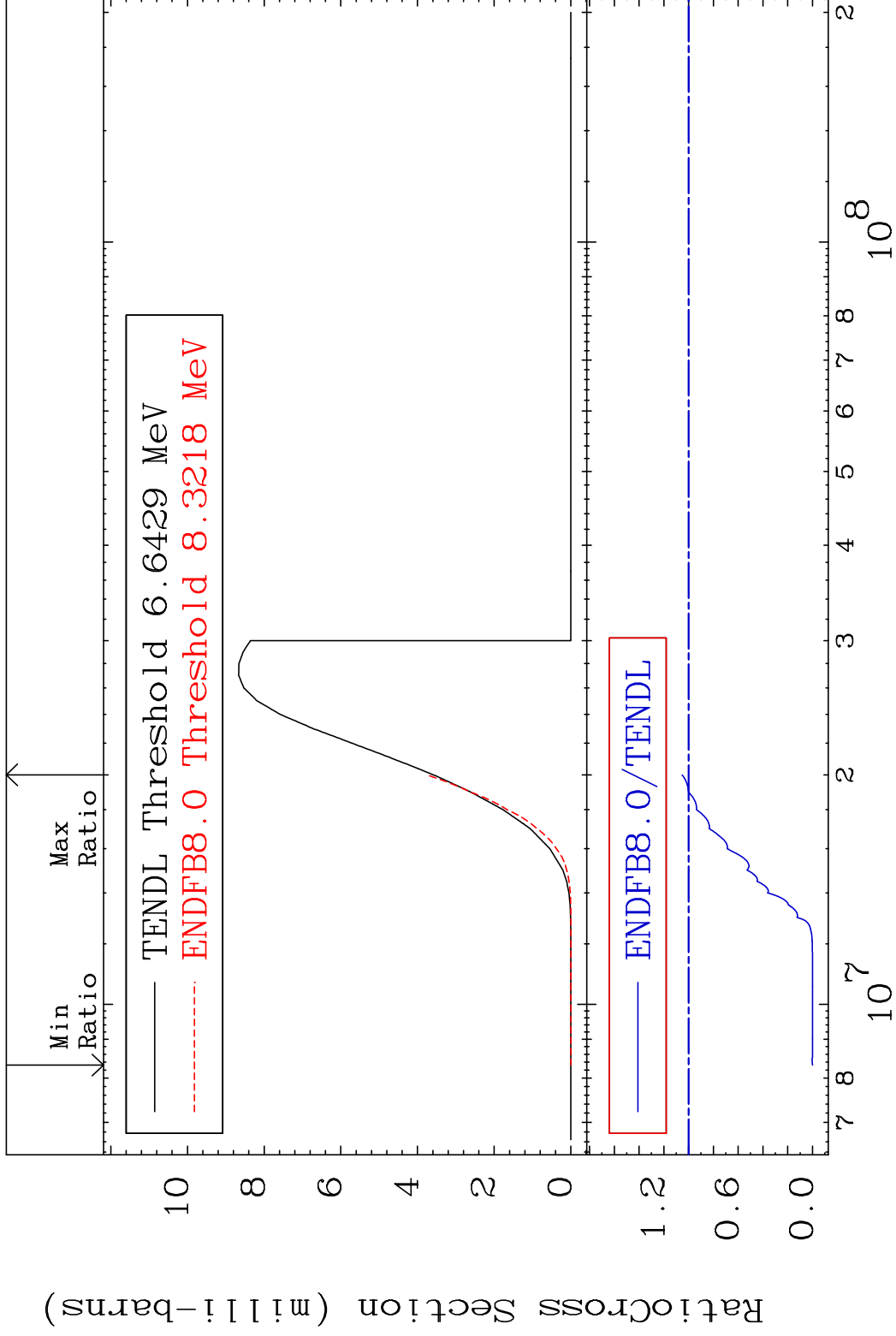
54-Xe-129

MAT 5440

(n, t)

54-Xe-129

Cross Section -100.0 To 5.223 %



29

Incident Energy (eV)

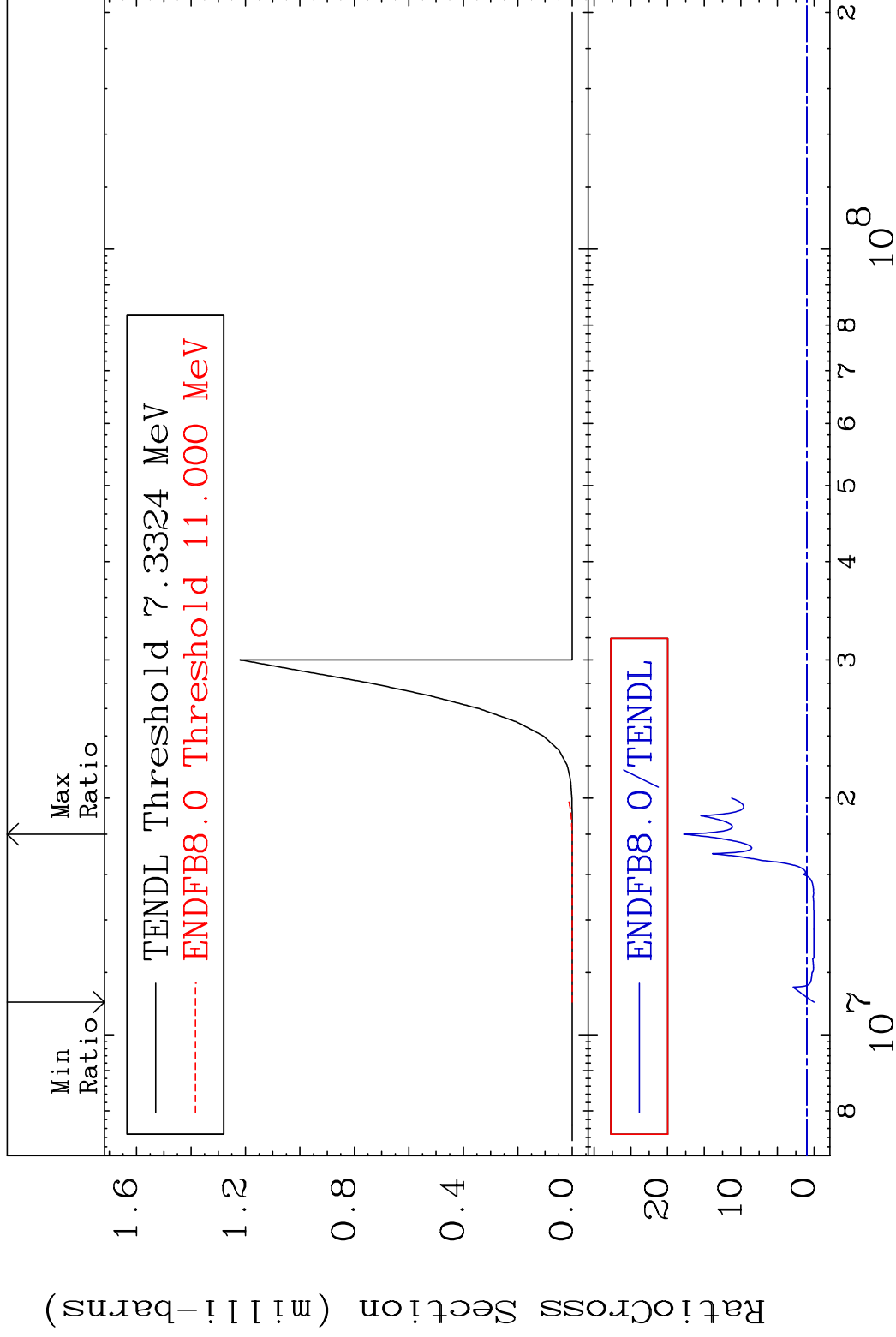
54-Xe-129

MAT 5440

(n, He-3)

54-Xe-129

Cross Section -100.0 To 1679. %



30

Incident Energy (eV)

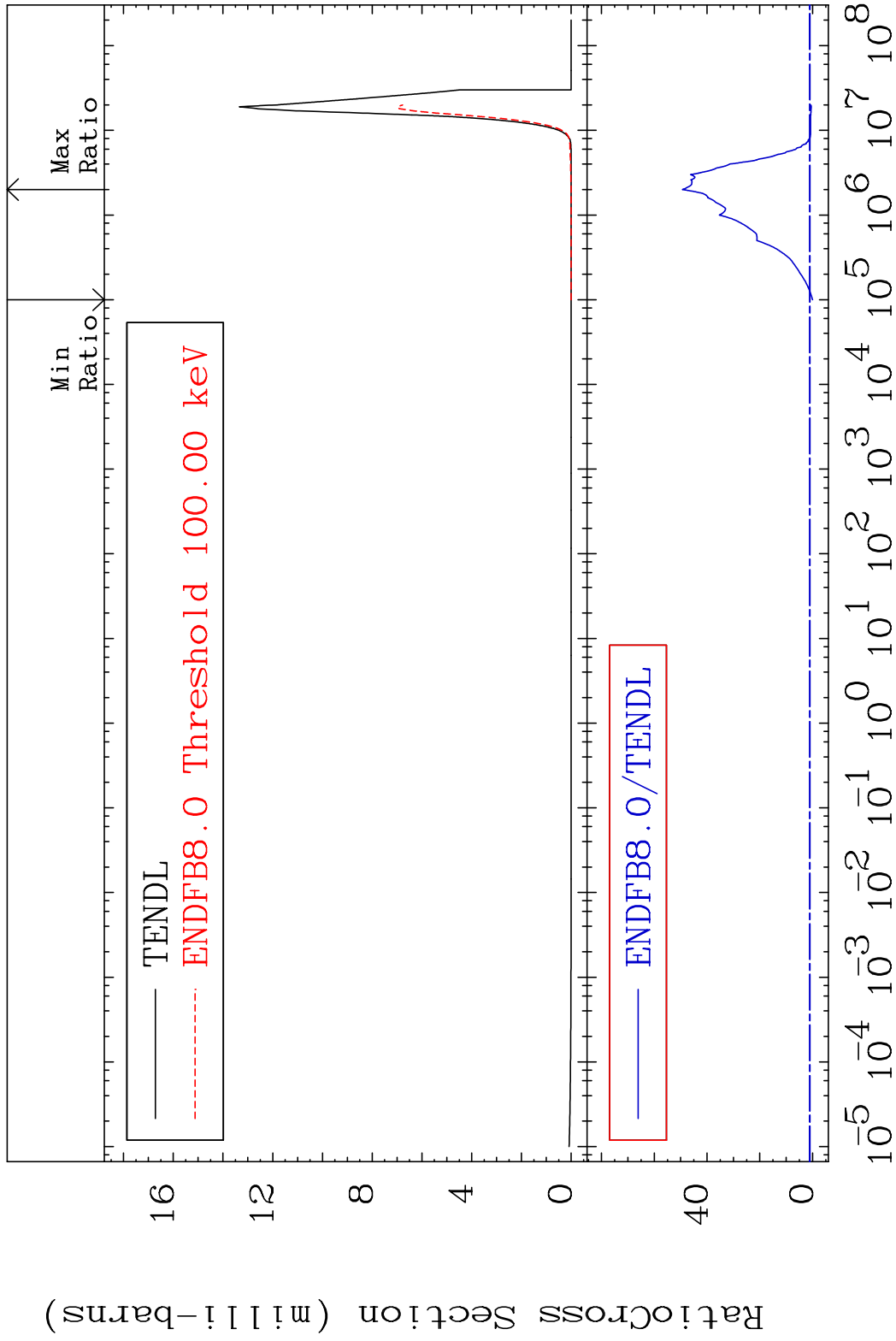
54-Xe-129

MAT 5440

(n, α)

54-Xe-129

Cross Section -100.0 To 4836. %



31

Incident Energy (eV)

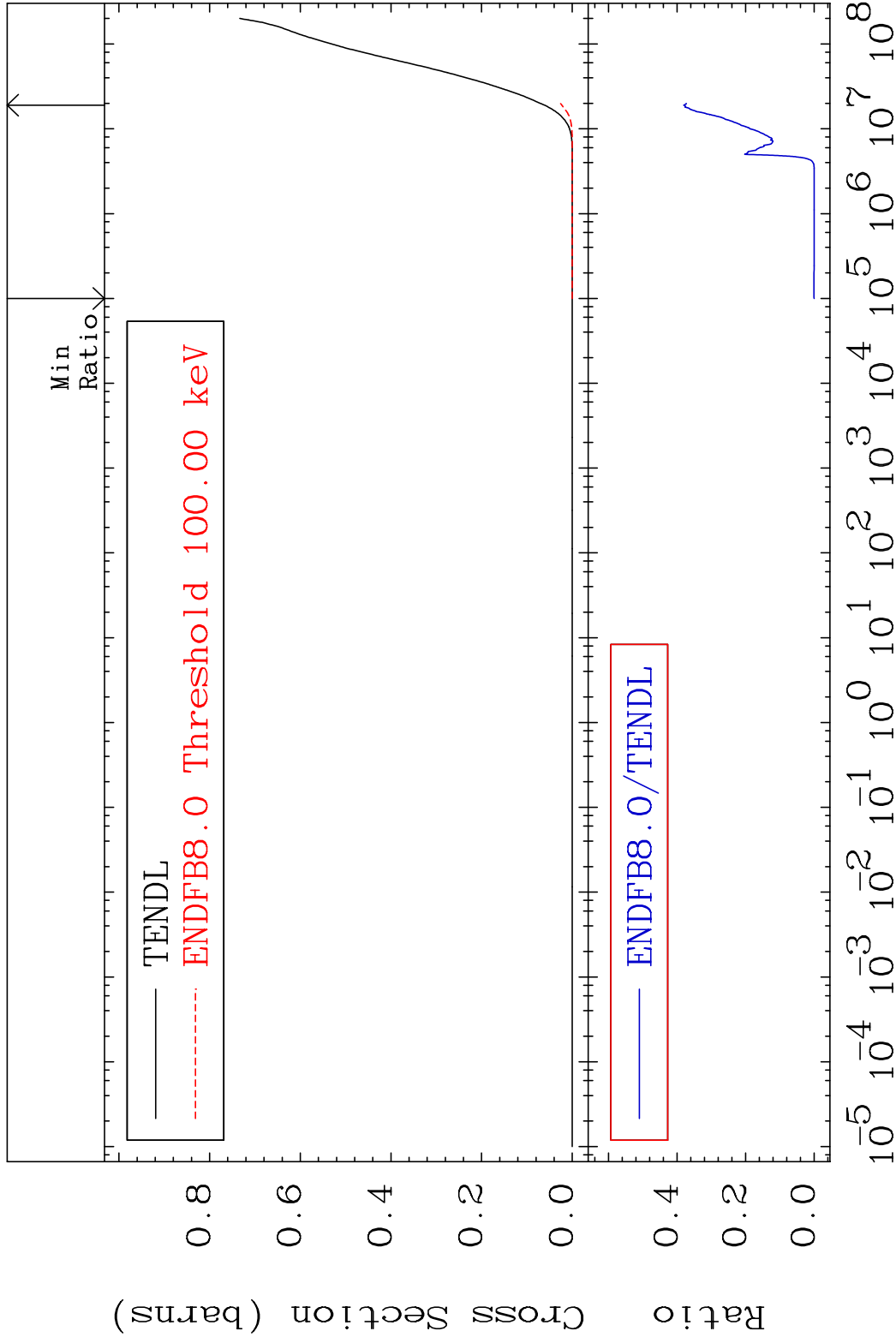
54-Xe-129

MAT 5440

Hydrogen Production

54-Xe-129

Cross Section -100.0 To -61.94%



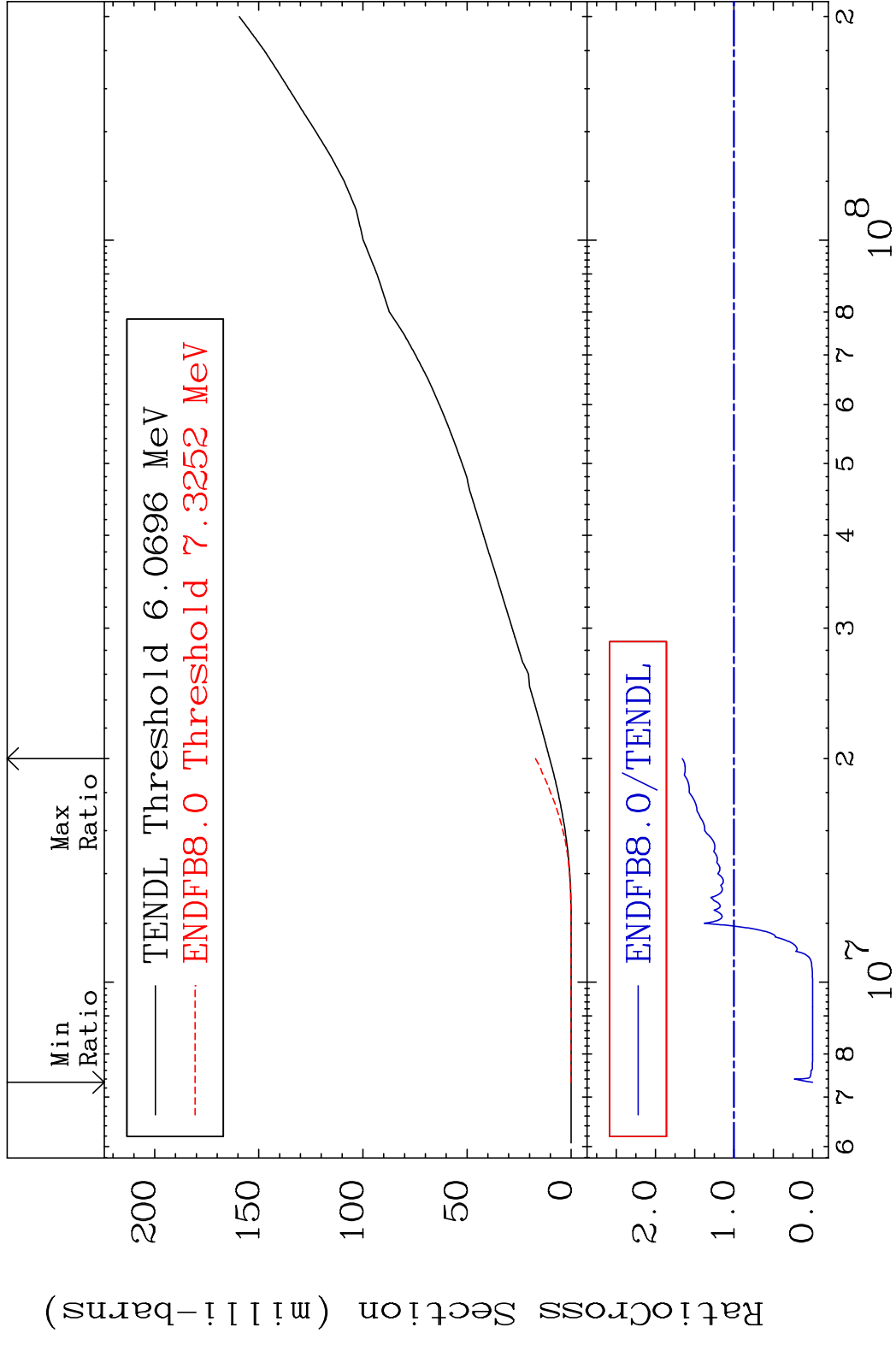
32

Incident Energy (eV)

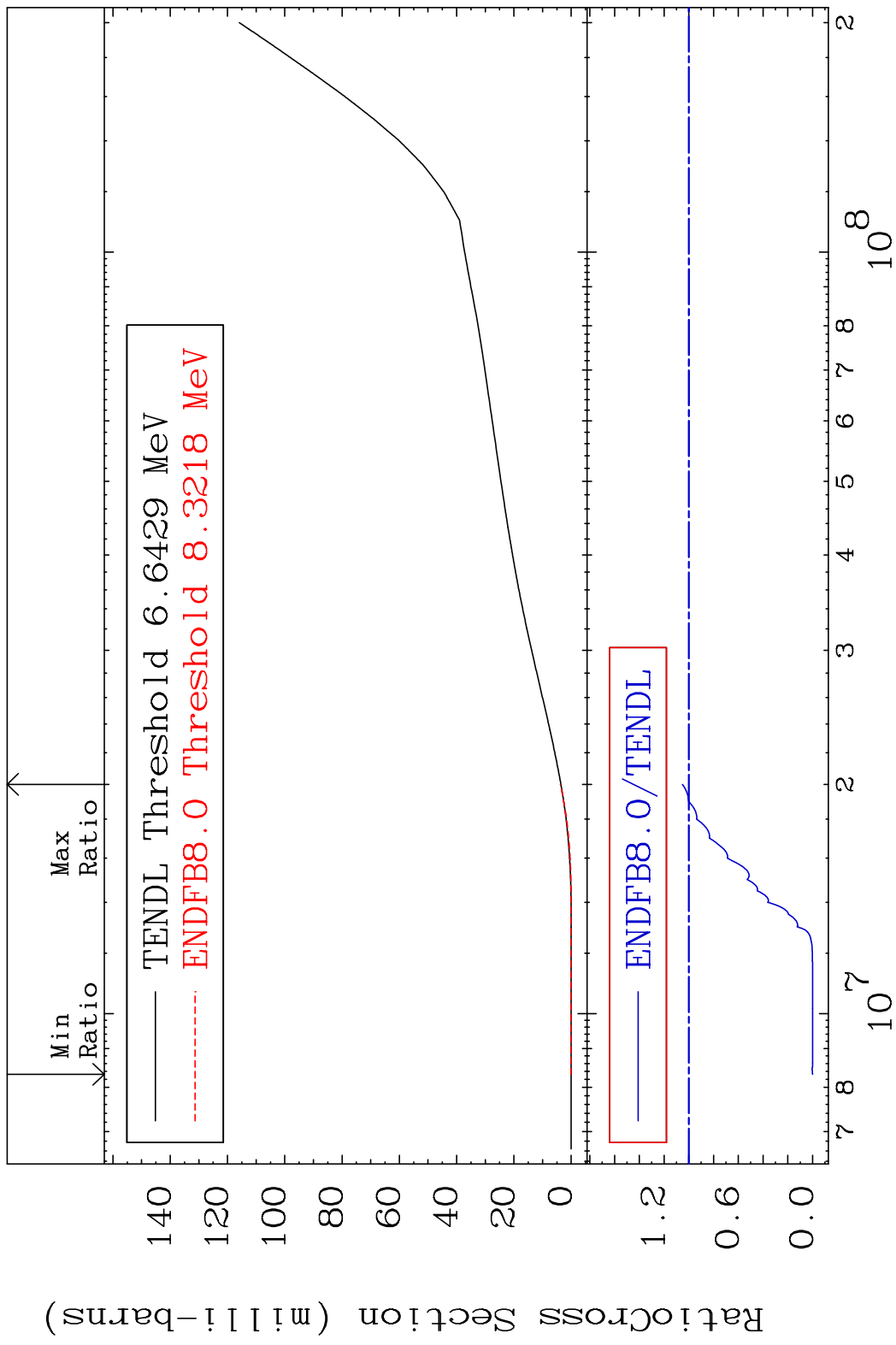
54-Xe-129

MAT 5440

Deuterium Production 54-Xe-129
Cross Section -100.0 To 65.81 %



MAT 5440 Tritium Production 54-Xe-129
 Cross Section -100.0 To 5.222 %

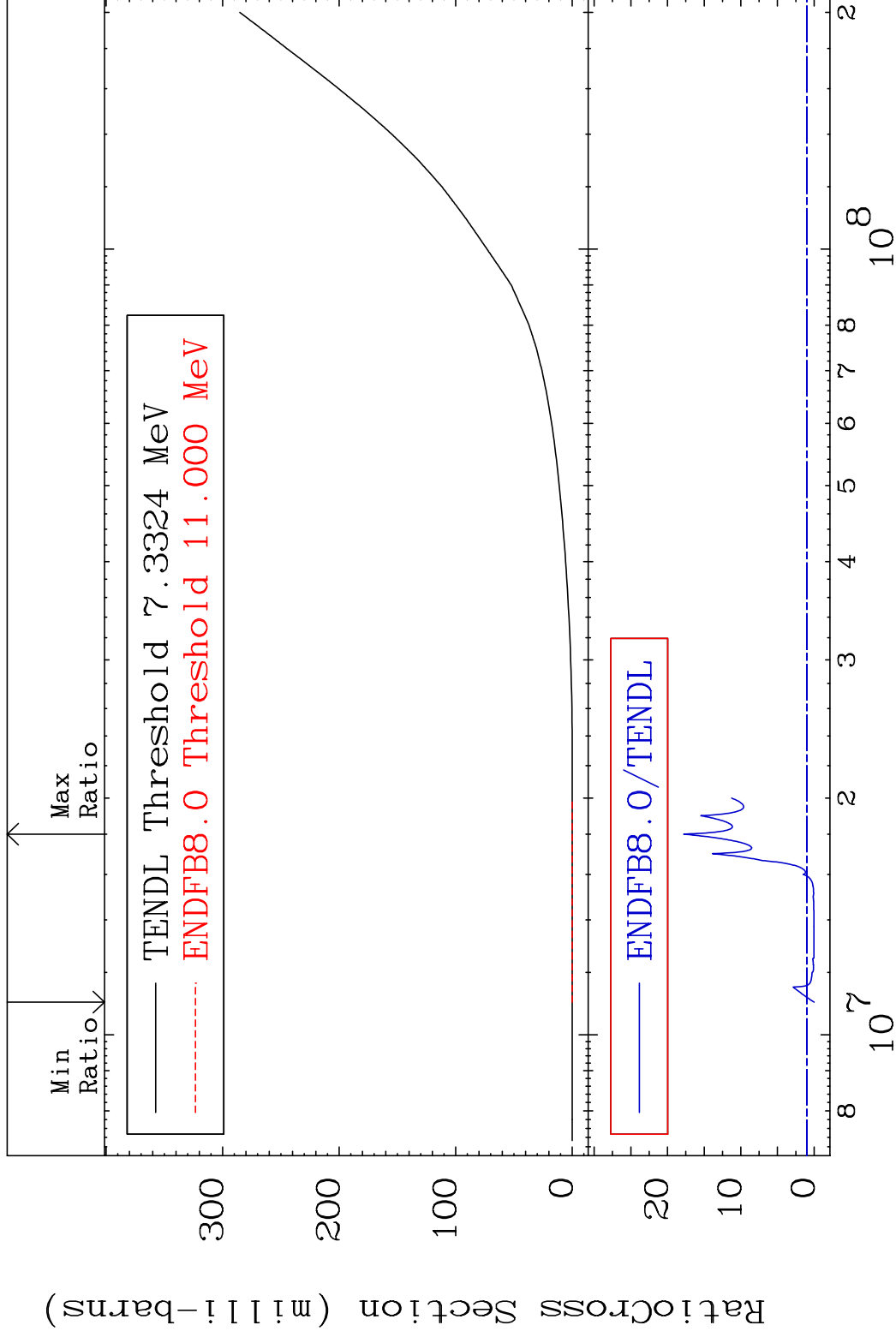


MAT 5440

He-3 Production

54-Xe-129

Cross Section -100.0 To 1679. %



35

Incident Energy (eV)

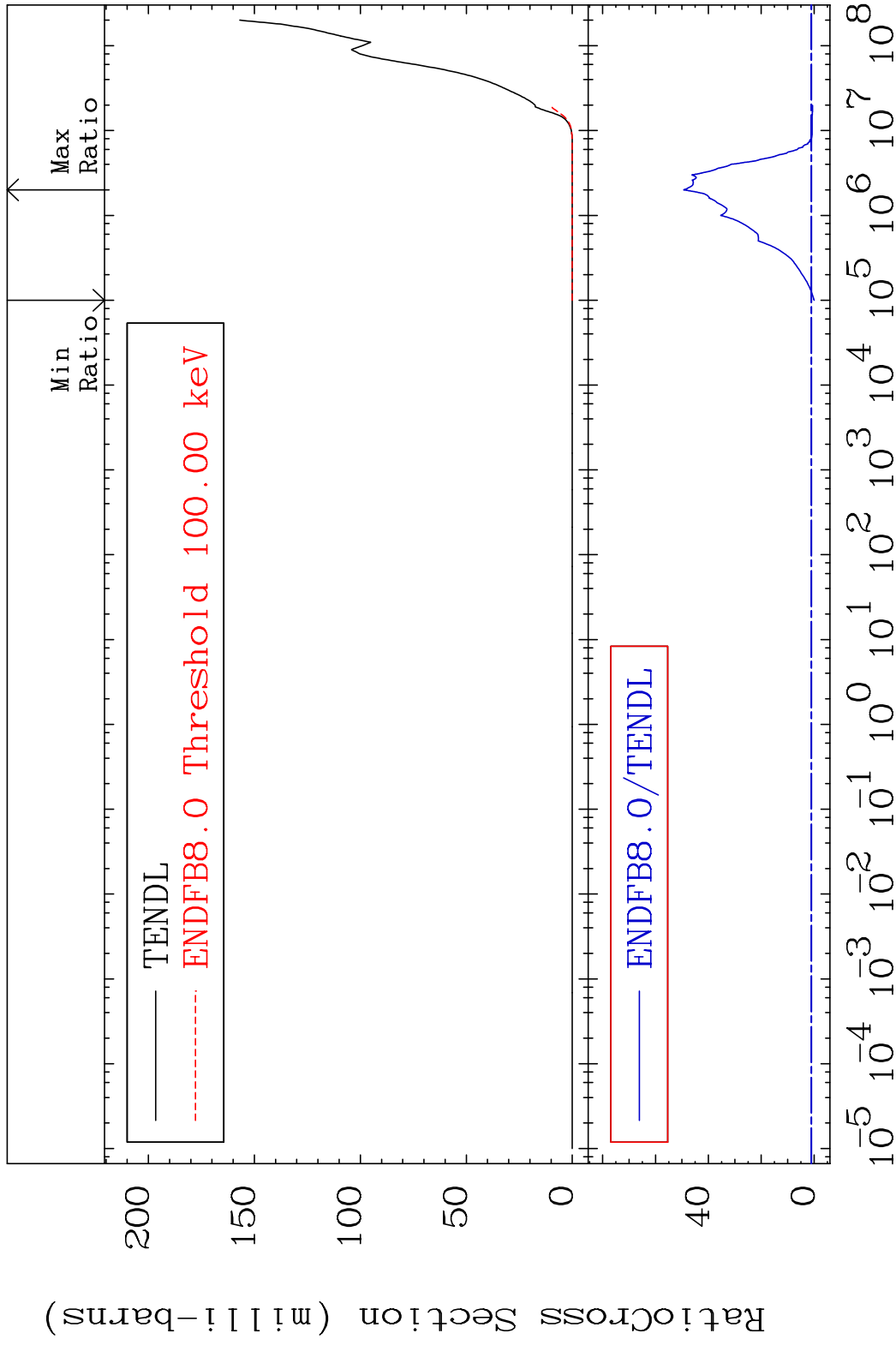
54-Xe-129

MAT 5440

He-4 Production

54-Xe-129

Cross Section -100.0 To 4836. %

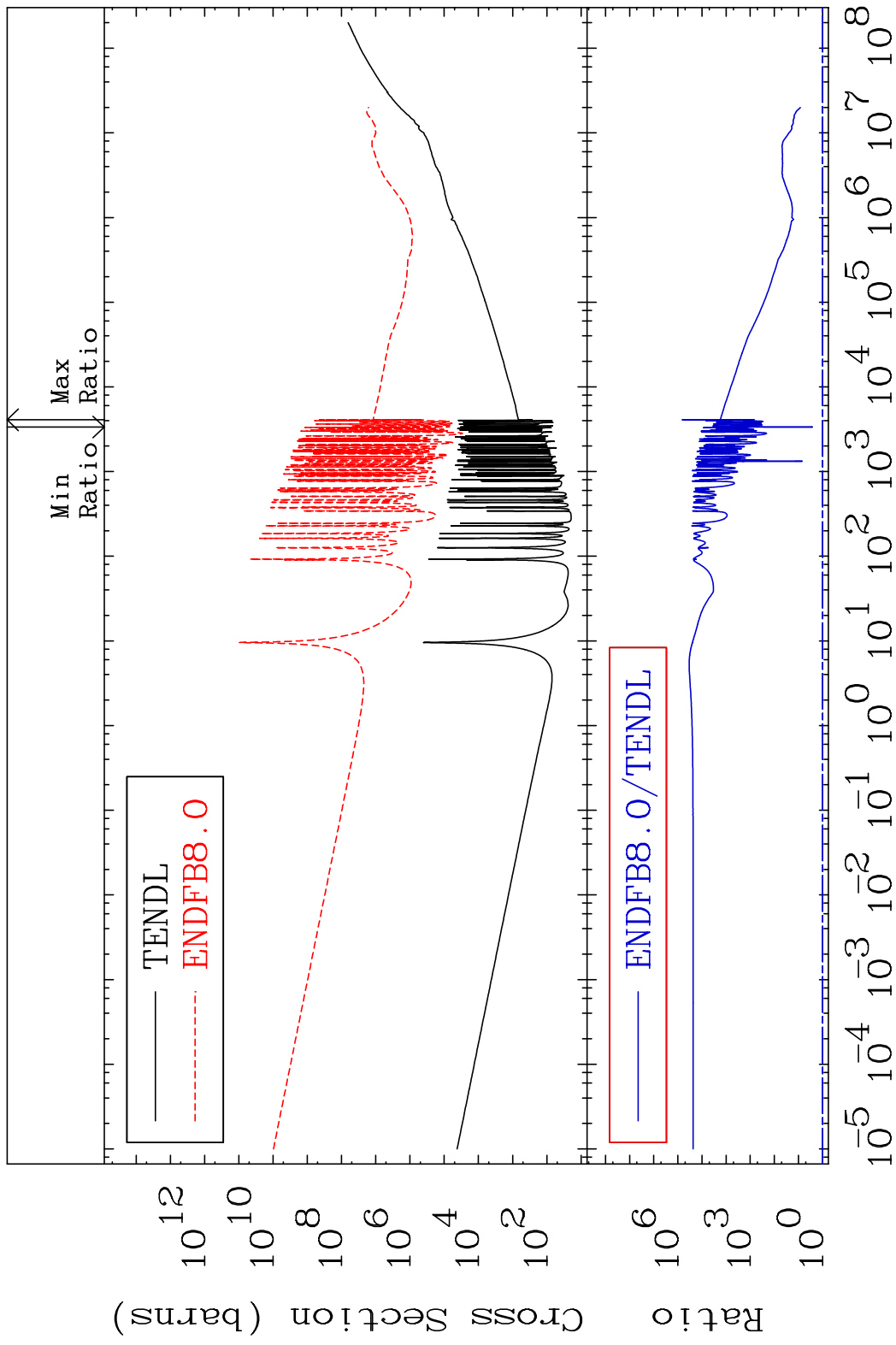


36

Incident Energy (eV)

54-Xe-129

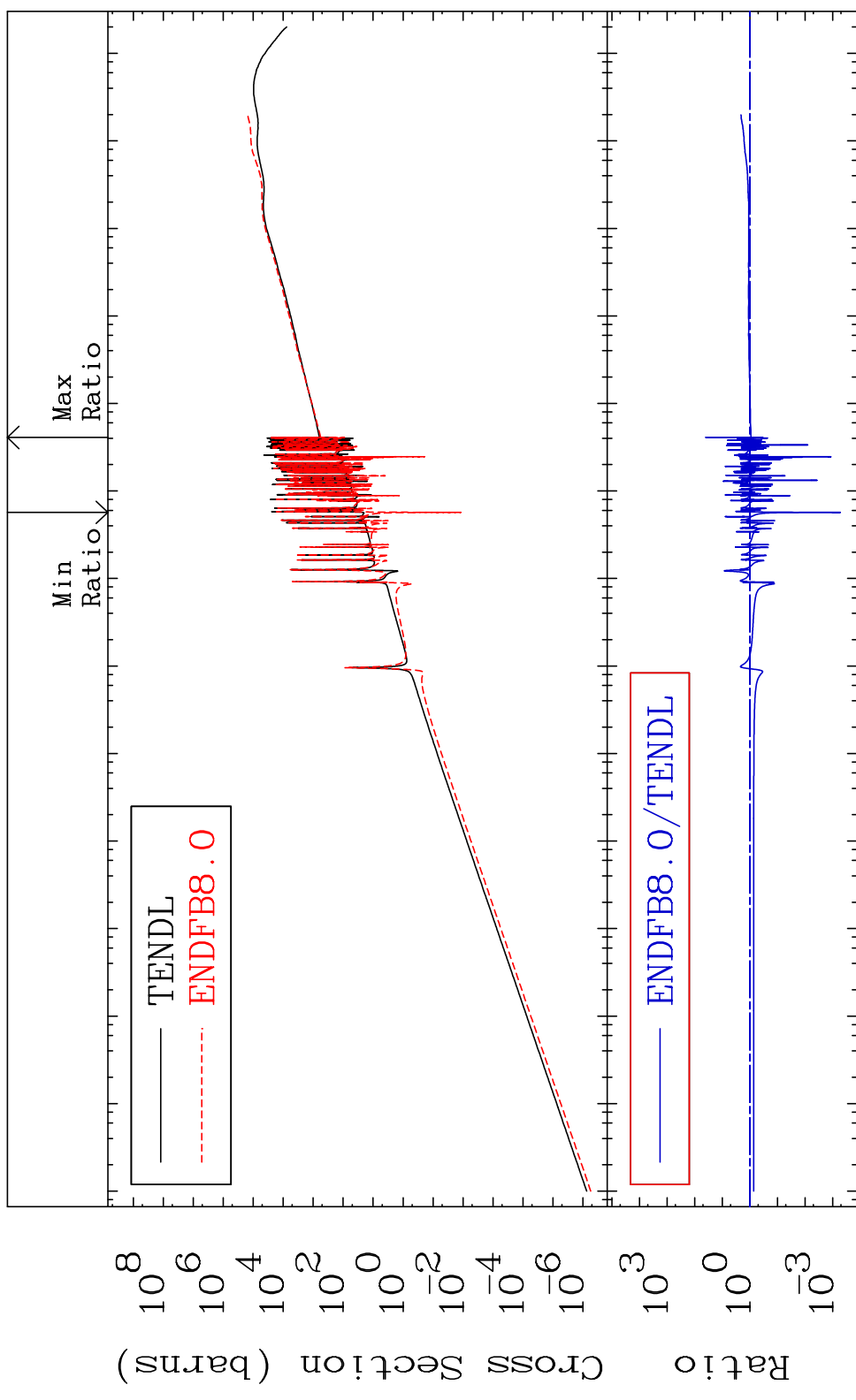
MAT 5440 Kerma total (eV-barns) 54-Xe-129
 Cross Section 160.7 To 9999. %



MAT 5440

Kerma elastic Cross Section -99.95 To 3870. %

54-Xe-129

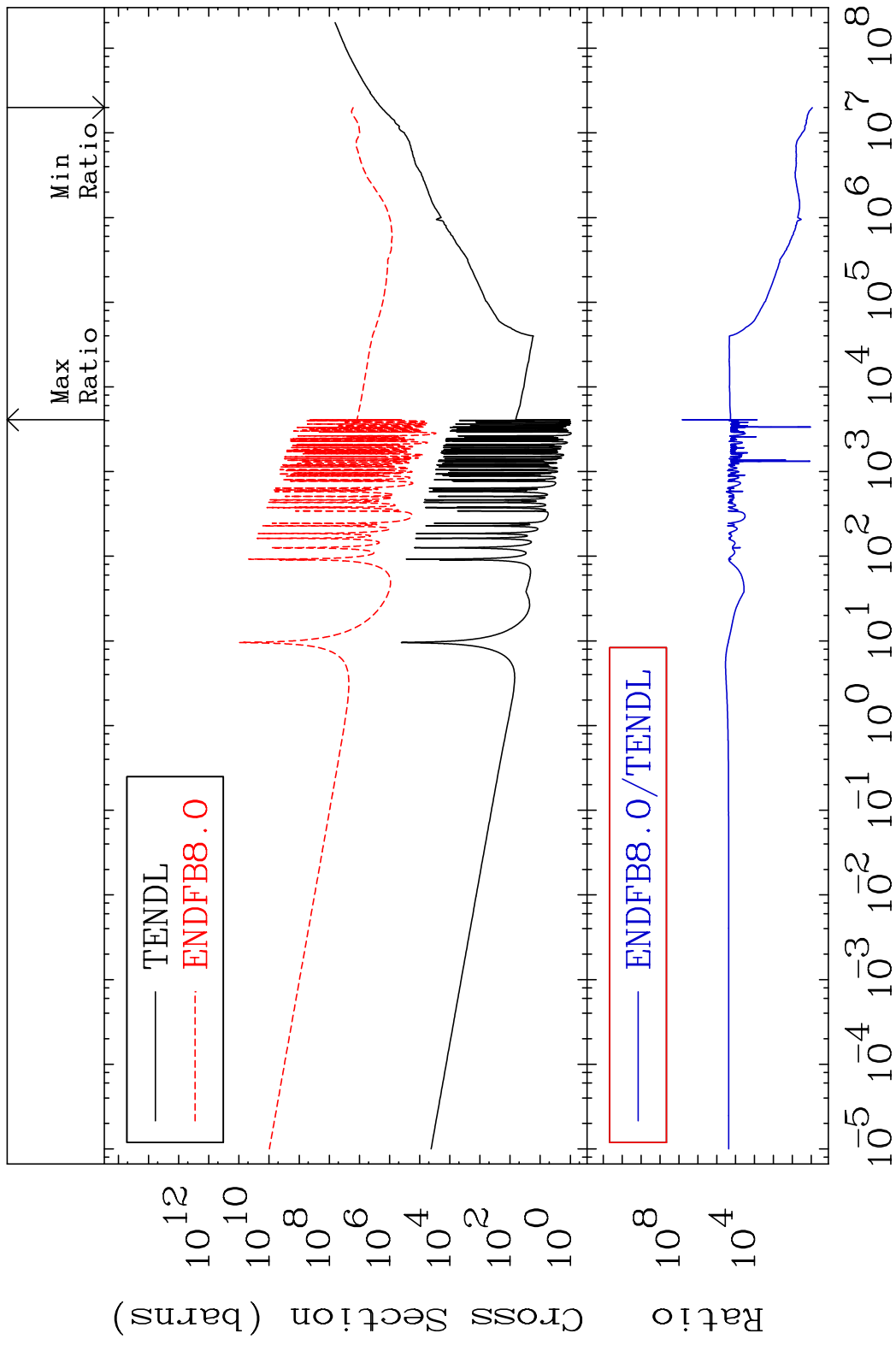


Ratio

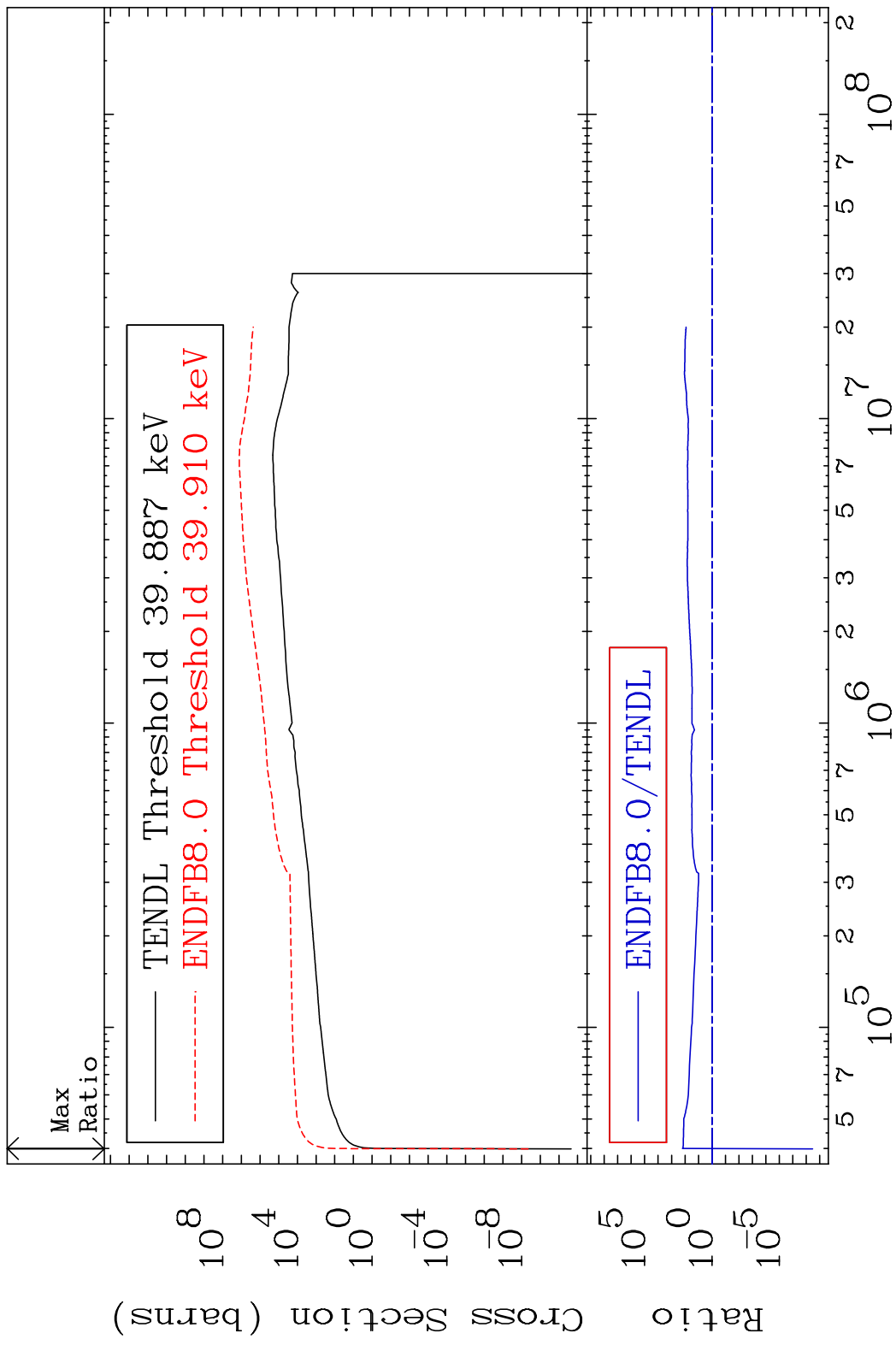
10⁸
10⁶
10⁴
10²
10⁰
10⁻²
10⁻⁴
10⁻⁶
10⁻⁸

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

MAT 5440 Kerma non-elastic (all but mt2) 54-Xe-129
 Cross Section 747.4 To 9999. %

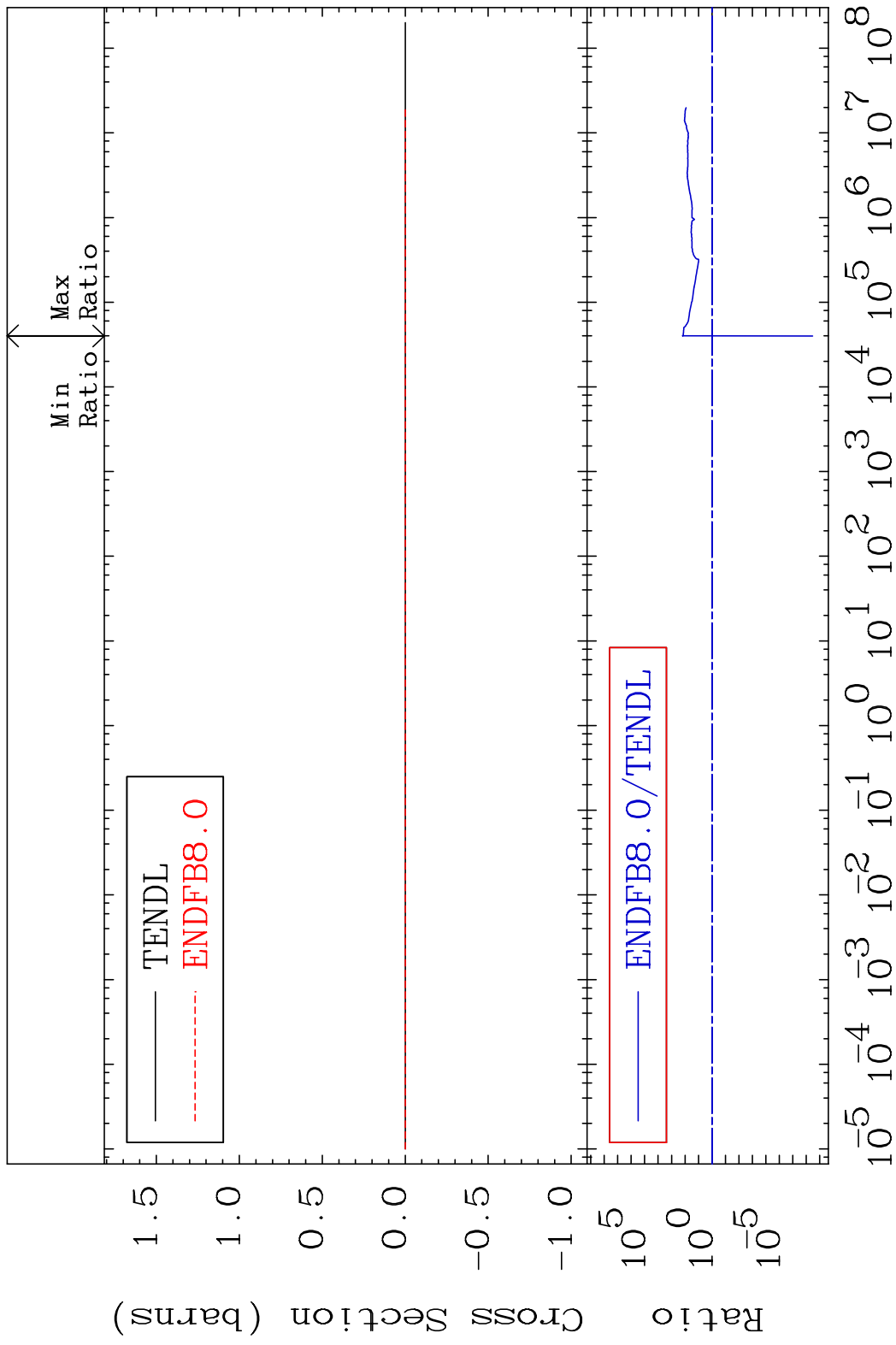


MAT 5440 Kerma inelastic (mt51-91) 54-Xe-129
 Cross Section -100.0 To 9999. %



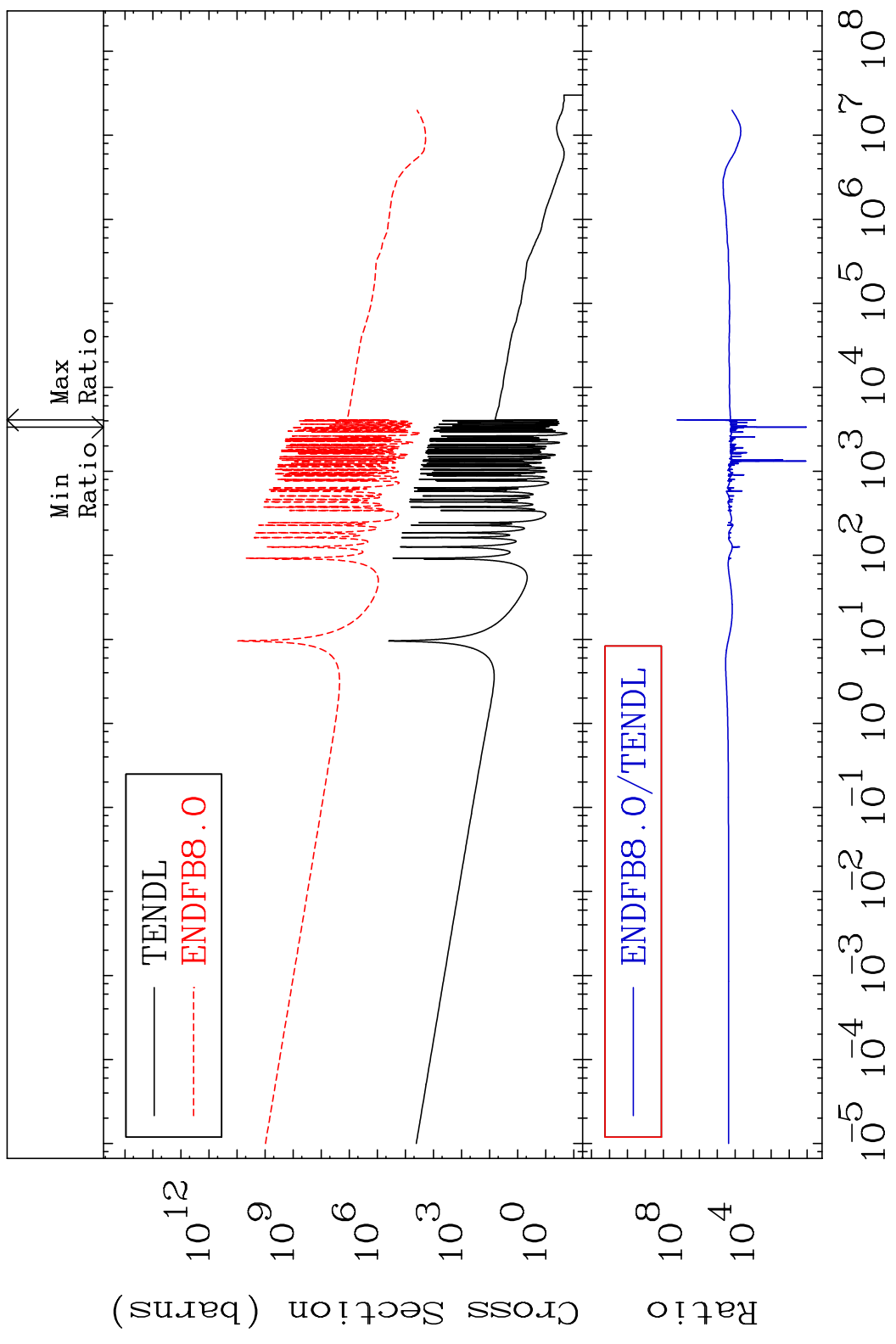
40 Incident Energy (eV) 54-Xe-129

MAT 5440 Kerma fission (mt18 or mt19-20-21-38) 54-Xe-129
 Cross Section -100.0 To 9999. %

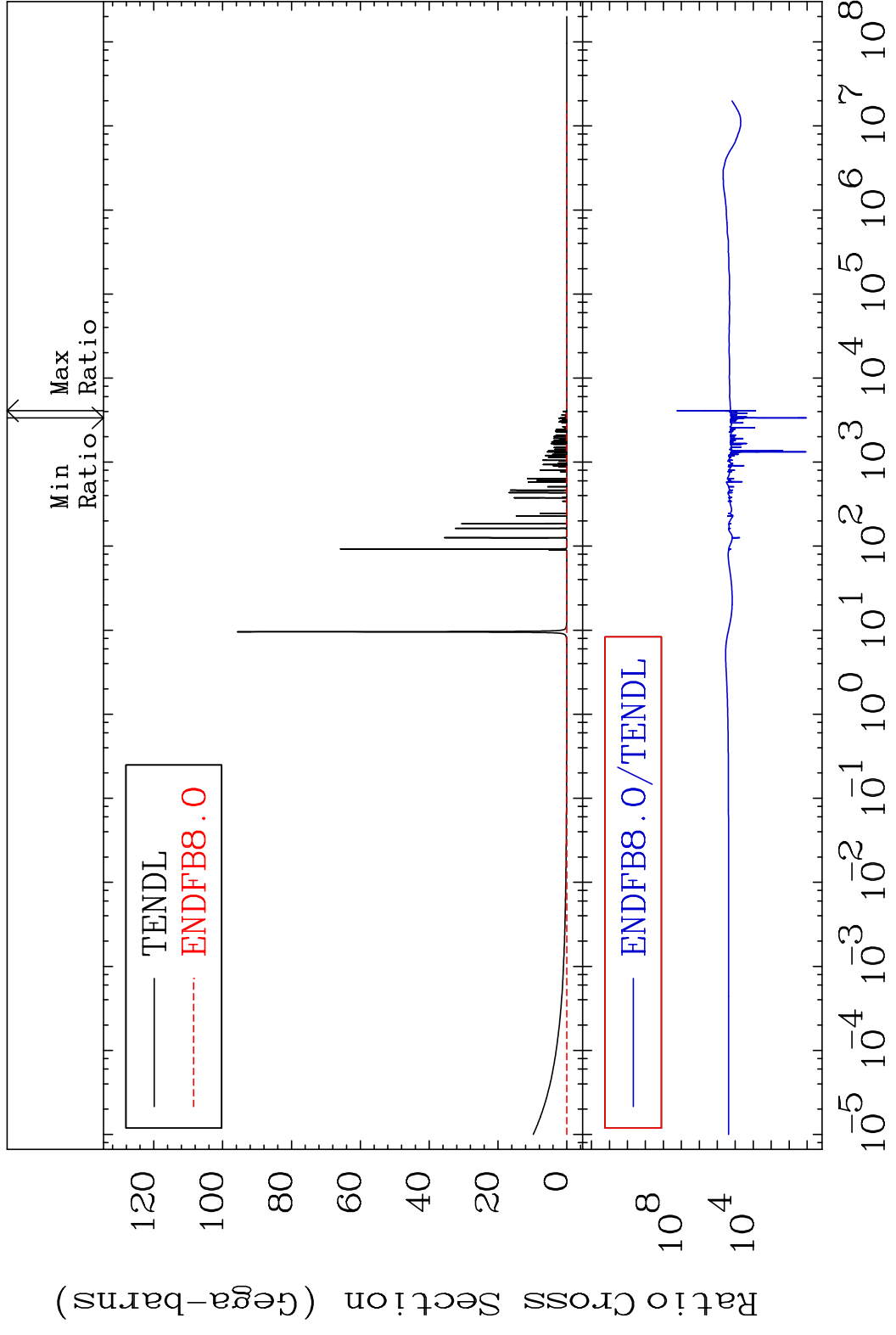


MAT 5440

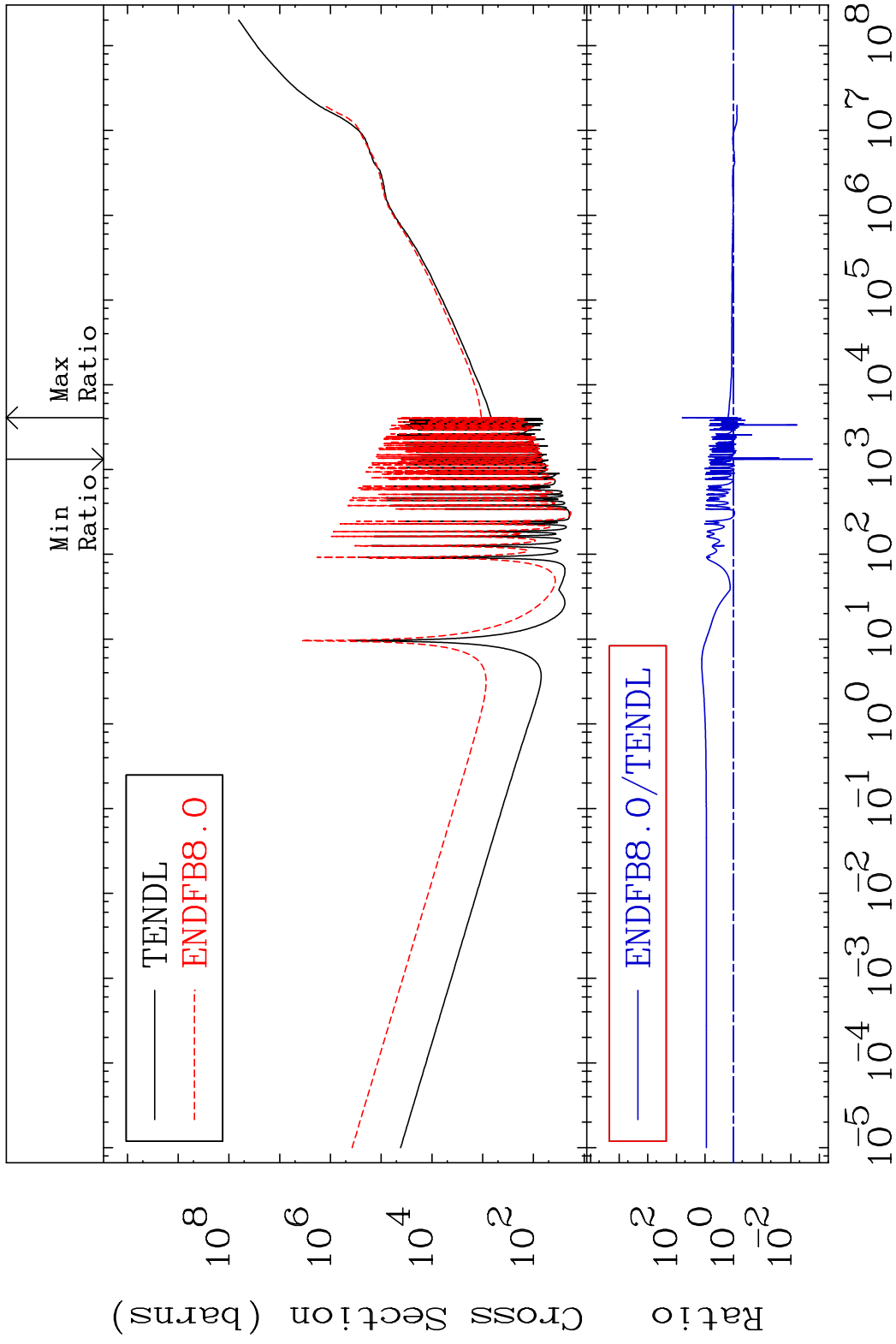
Kerma capture (mt102) 54-Xe-129
Cross Section 997.5 To 9999. %



MAT 5440 Total photon (eV-barns) 54-Xe-129
 Cross Section 997.5 To 9999. %



MAT 5440 Total kinematic kerma (high limit) 54-Xe-129
 Cross Section -99.82 To 6193. %

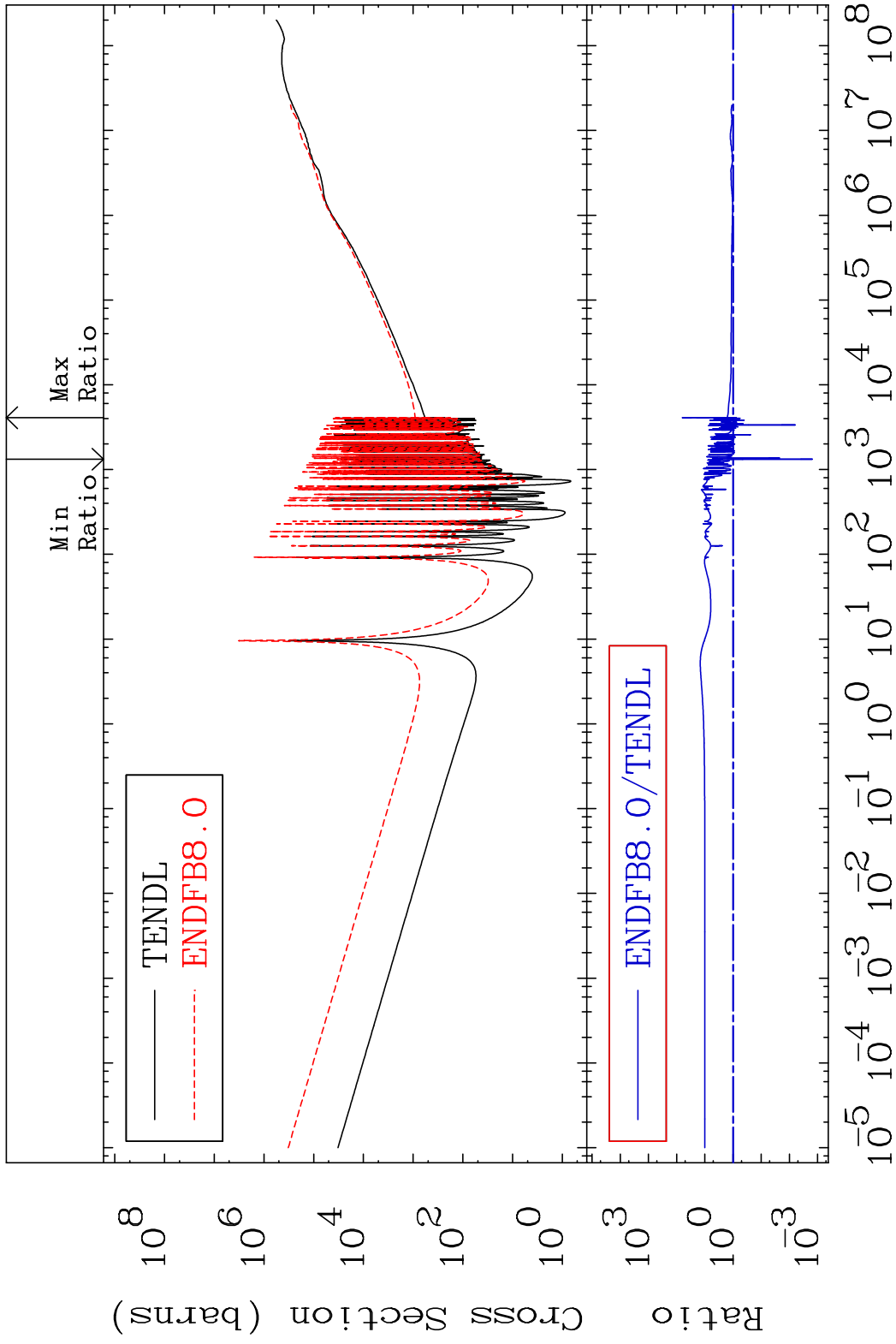


MAT 5440

Dpa total (eV-barns)

54-Xe-129

Cross Section -99.85 To 6268. %



45

Incident Energy (eV)

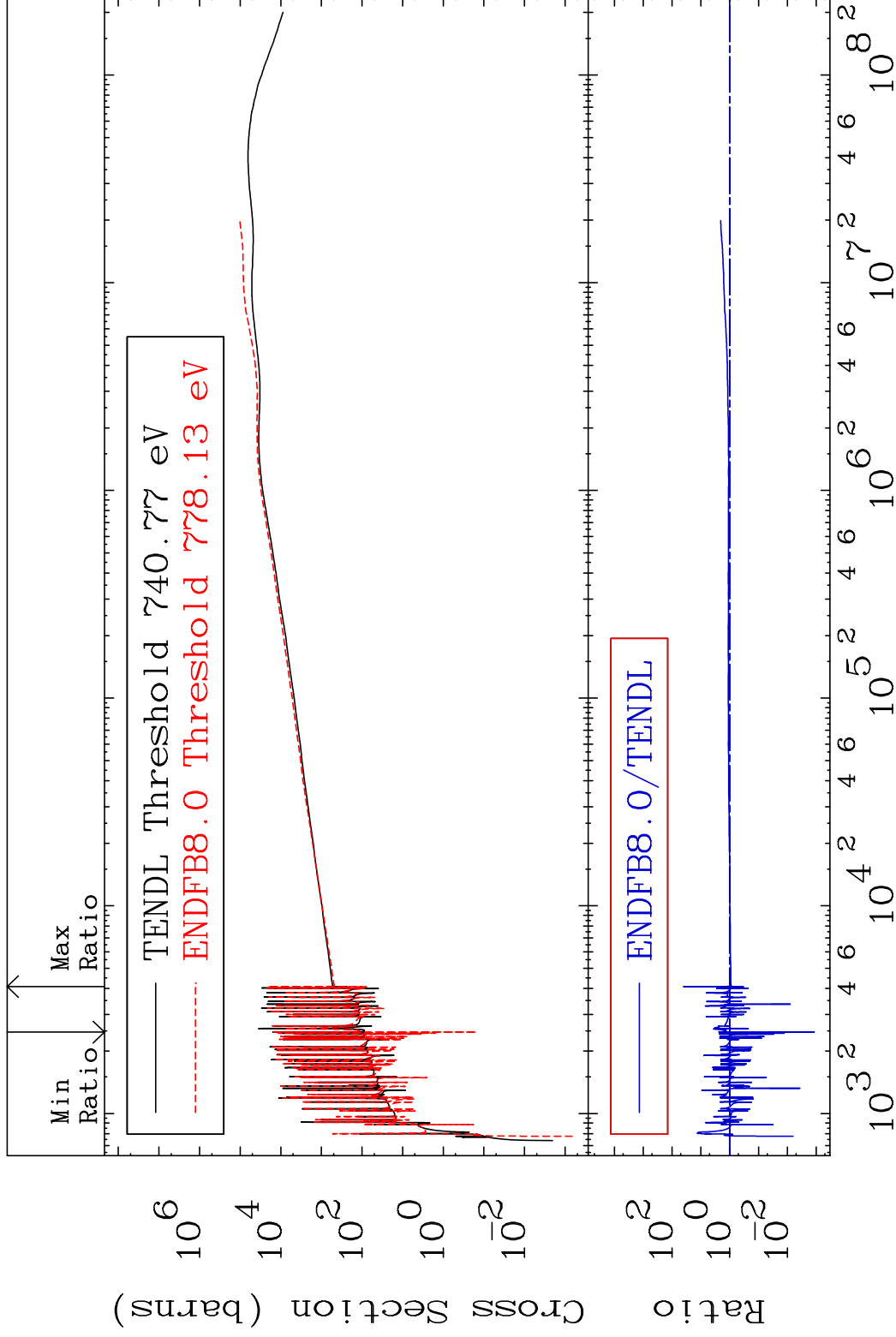
54-Xe-129

MAT 5440

Dpa elastic (mt2)

54-Xe-129

Cross Section -99.88 To 3861. %

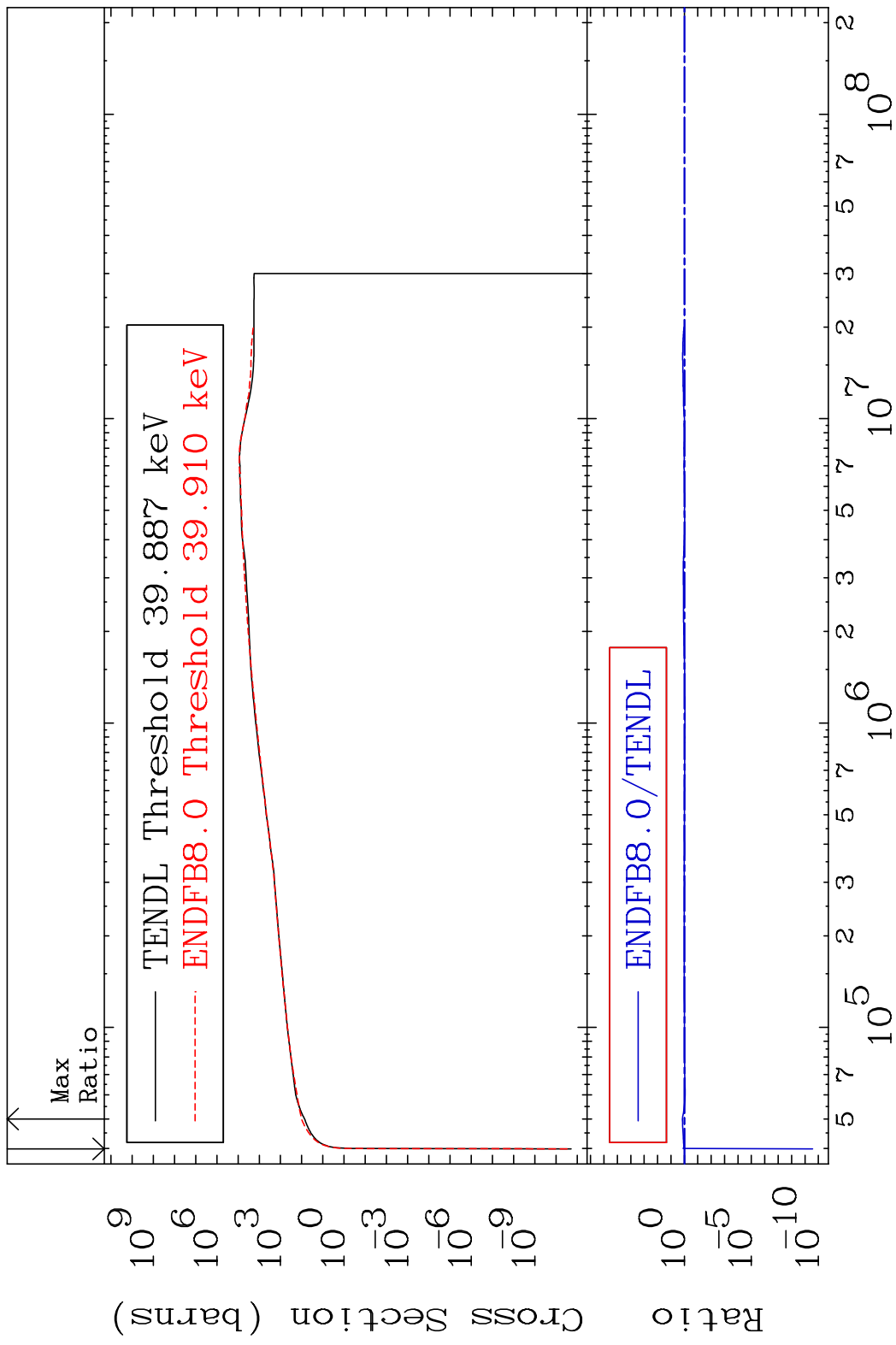


46

Incident Energy (eV)

54-Xe-129

MAT 5440 Dpa inelastic (mt51-91) 54-Xe-129
 Cross Section -100.0 To 41.31 %



MAT 5440 Dpa disappearance (mt102 -120) 54-Xe-129
 Cross Section -99.95 To 9999. %

