

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

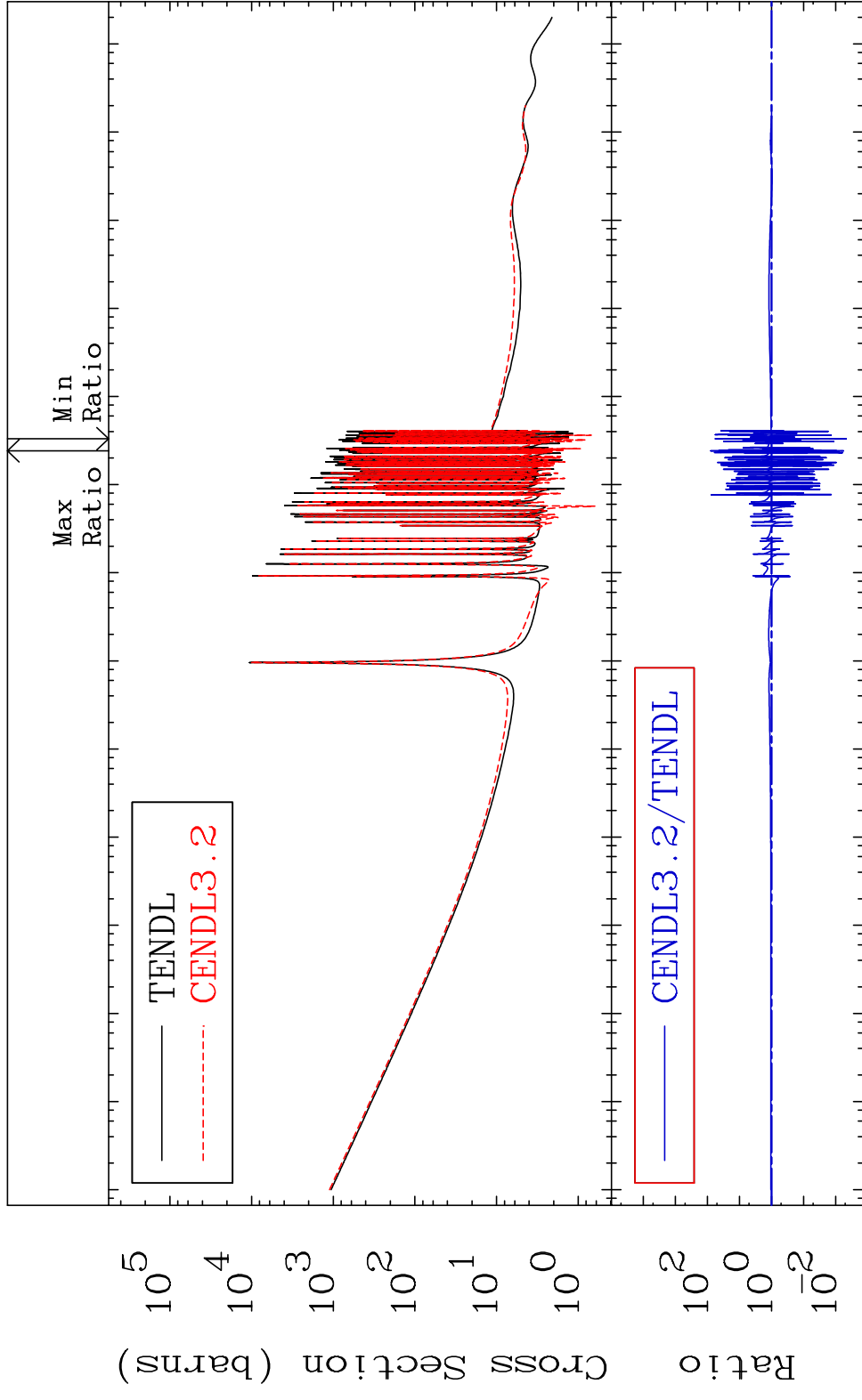
MAT 5440

Total

54-Xe-129

Cross Section

-99.54 To 7776. %



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

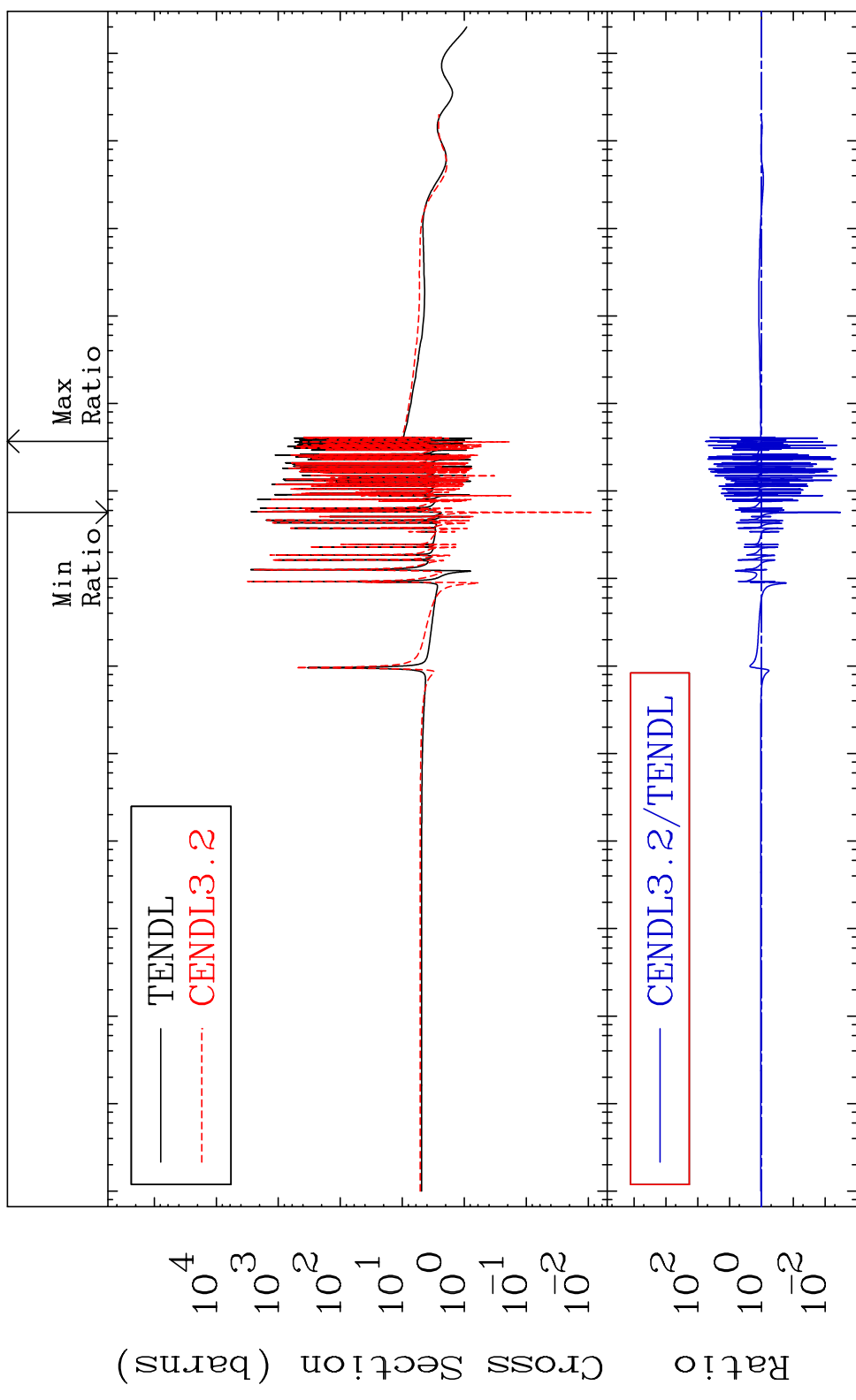
1

Incident Energy (eV)

54-Xe-129

MAT 5440

Elastic Cross Section -99.67 To 5510. %
54-Xe-129

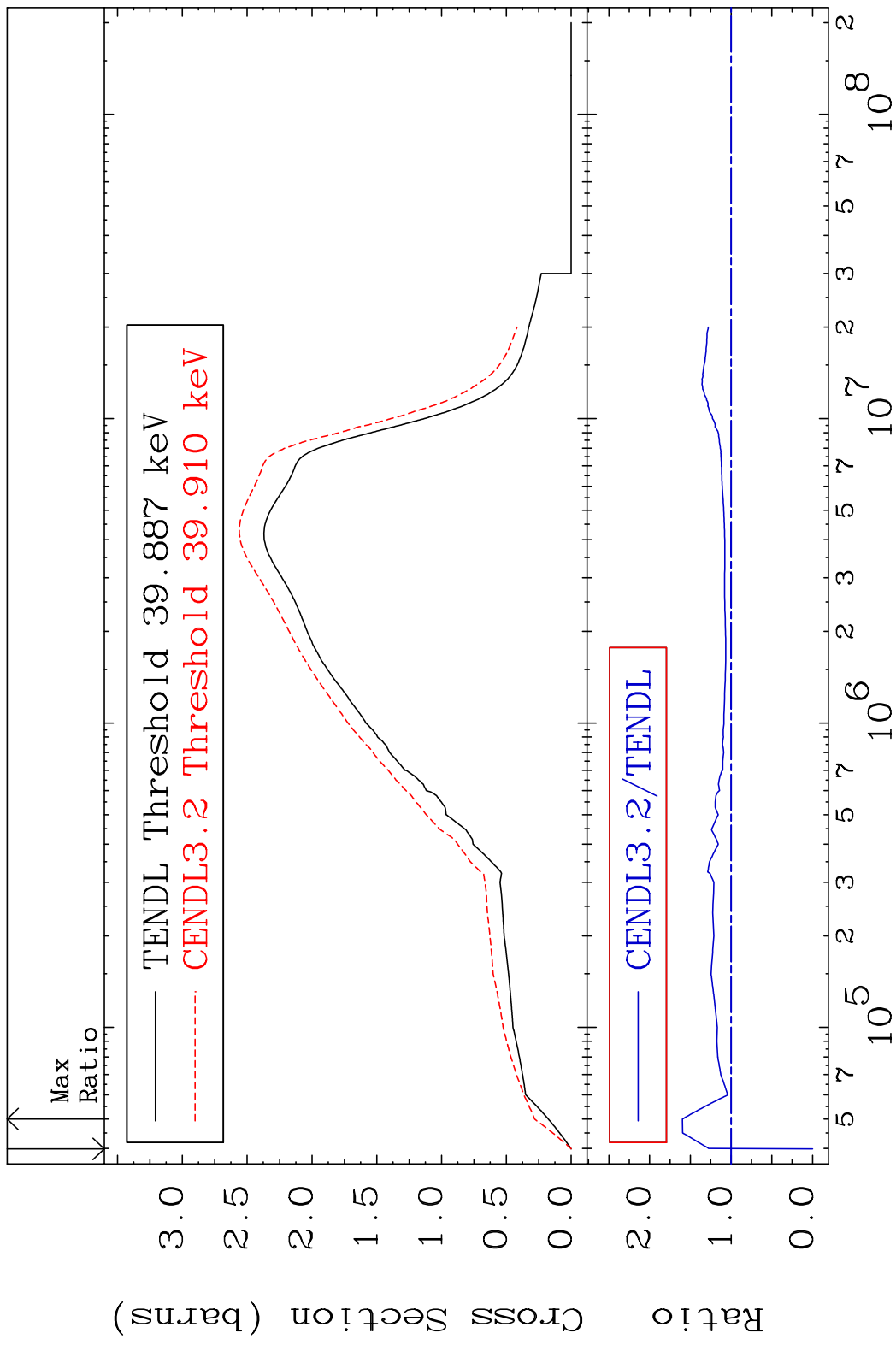


Ratio
10²
10⁰
10⁻²

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

2 Incident Energy (eV) 54-Xe-129

MAT 5440 Inelastic 54-Xe-129
 Cross Section -100.0 To 59.82 %

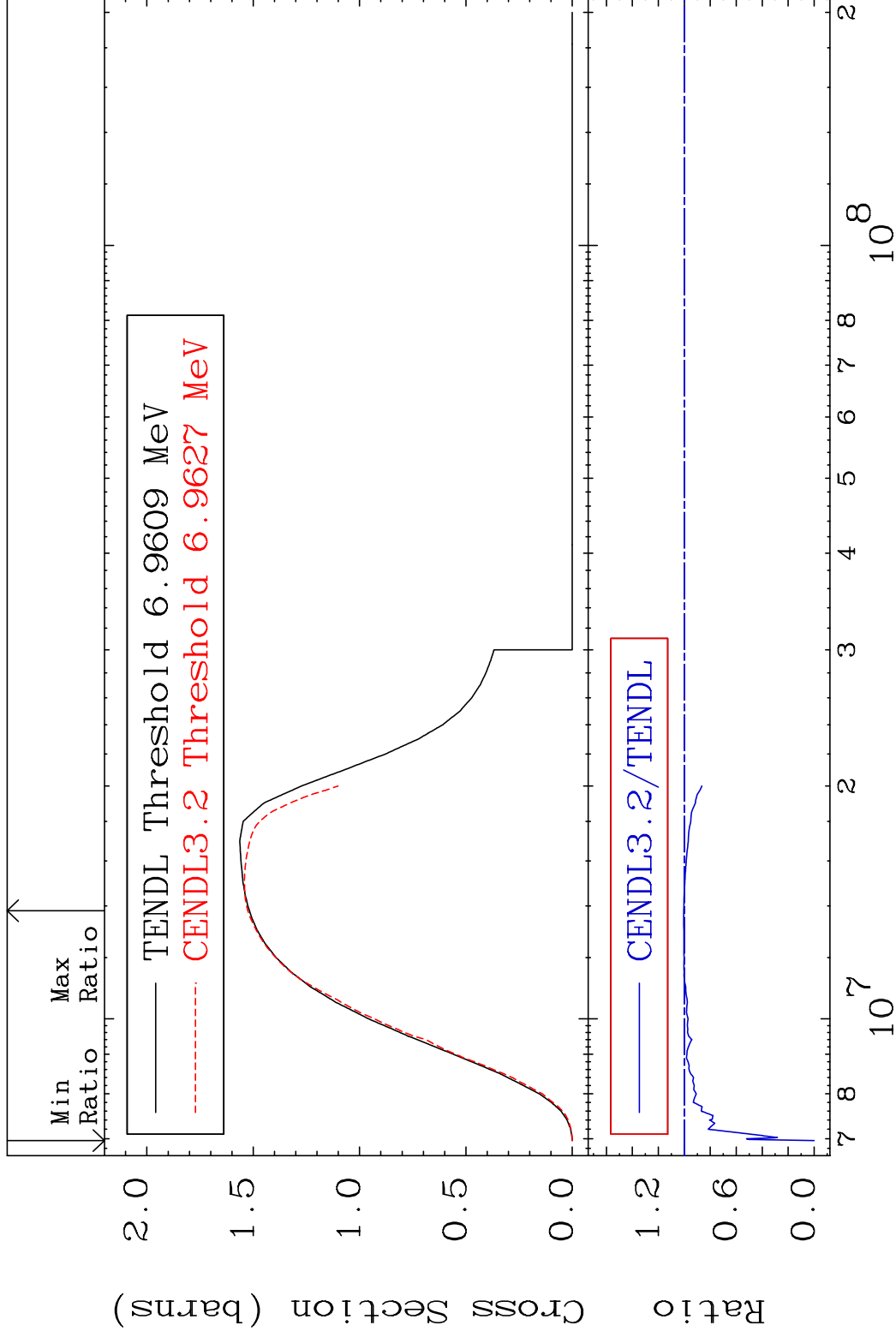


MAT 5440

(n,2n)

54-Xe-129

Cross Section -100.0 To 0.505 %



4

Incident Energy (eV)

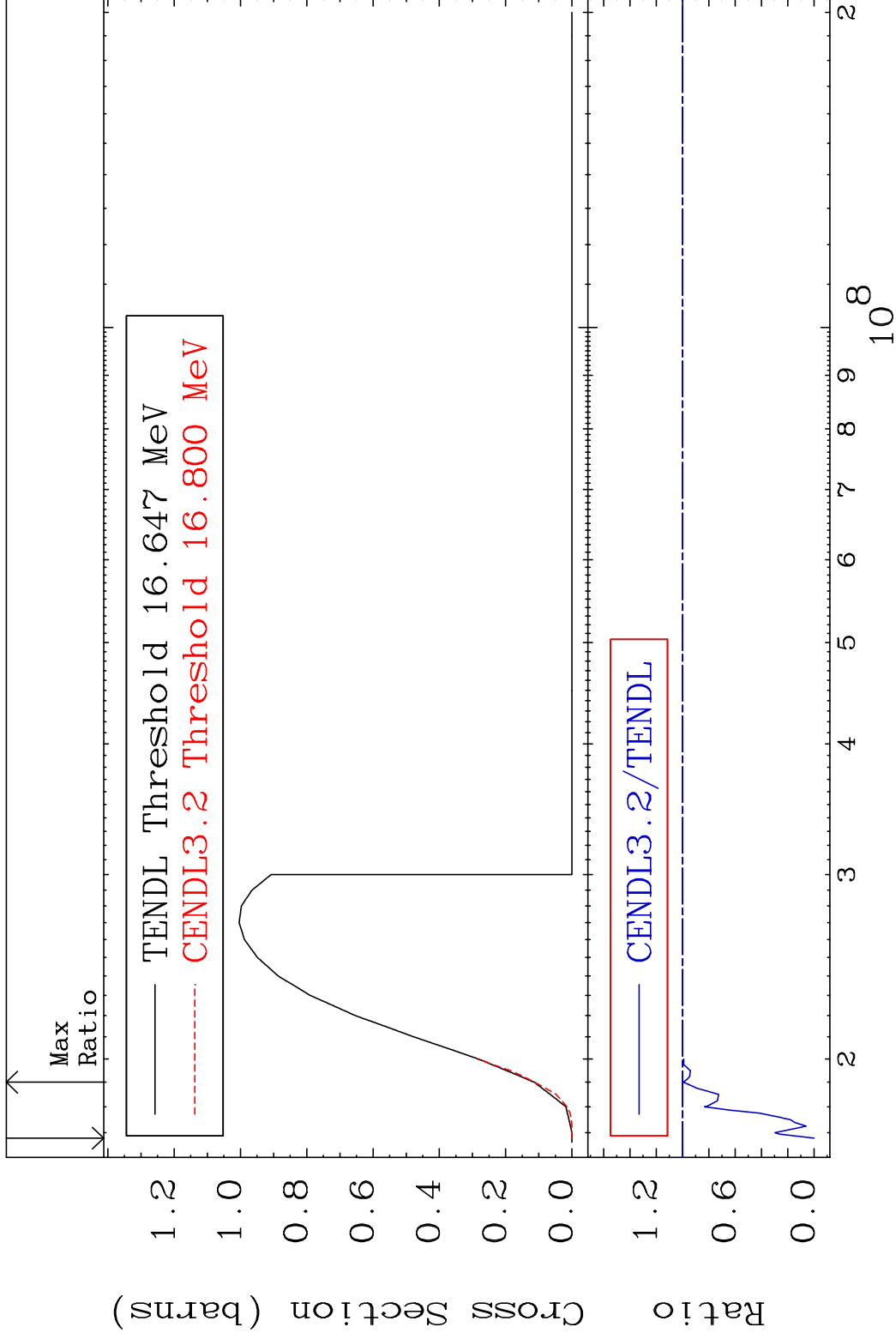
54-Xe-129

MAT 5440

(n,3n)

54-Xe-129

Cross Section -100.0 To -0.702%



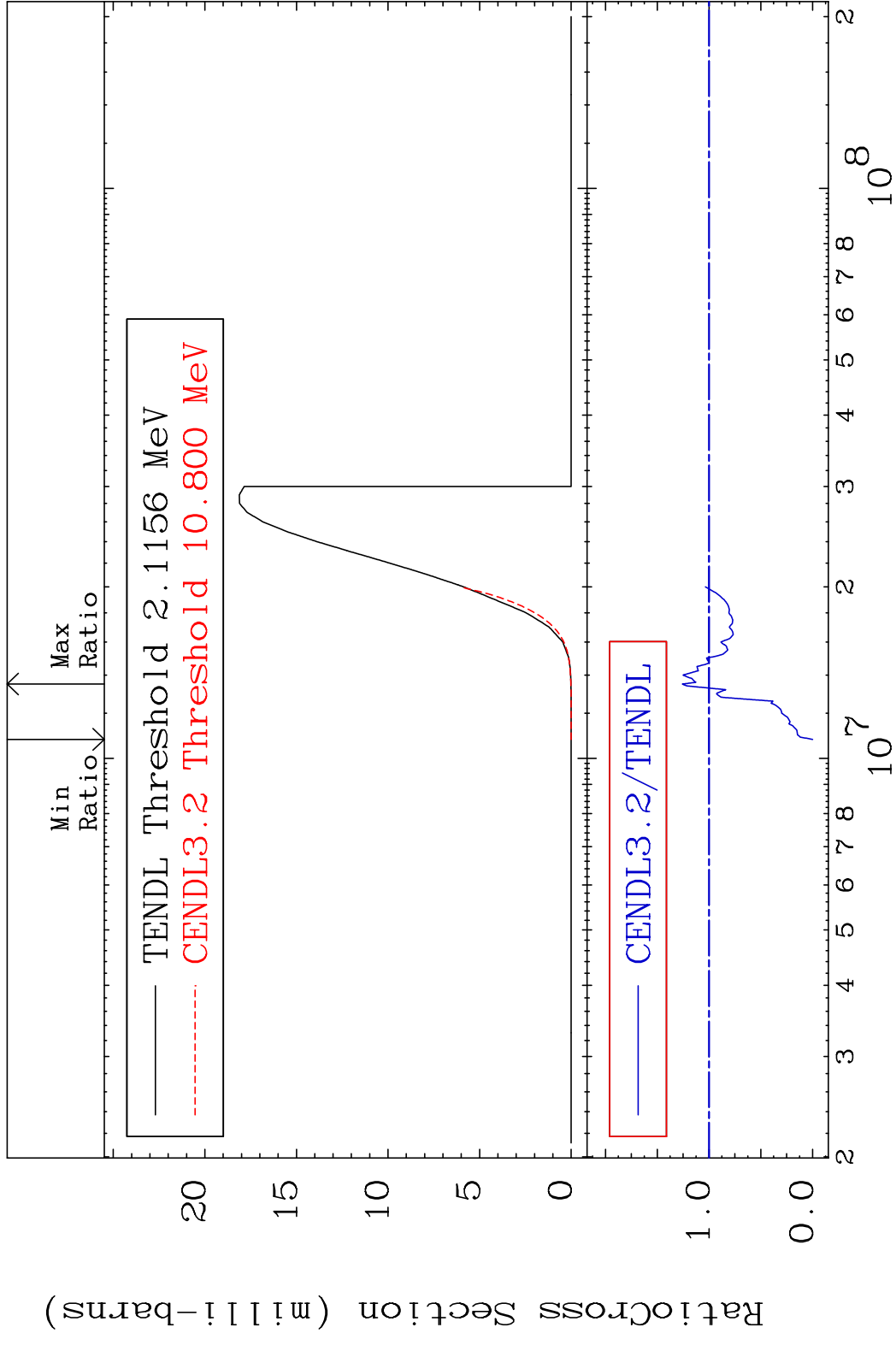
5

Incident Energy (eV)

54-Xe-129

MAT 5440

(n, n') α 54-Xe-129
Cross Section -100.0 To 25.73 %

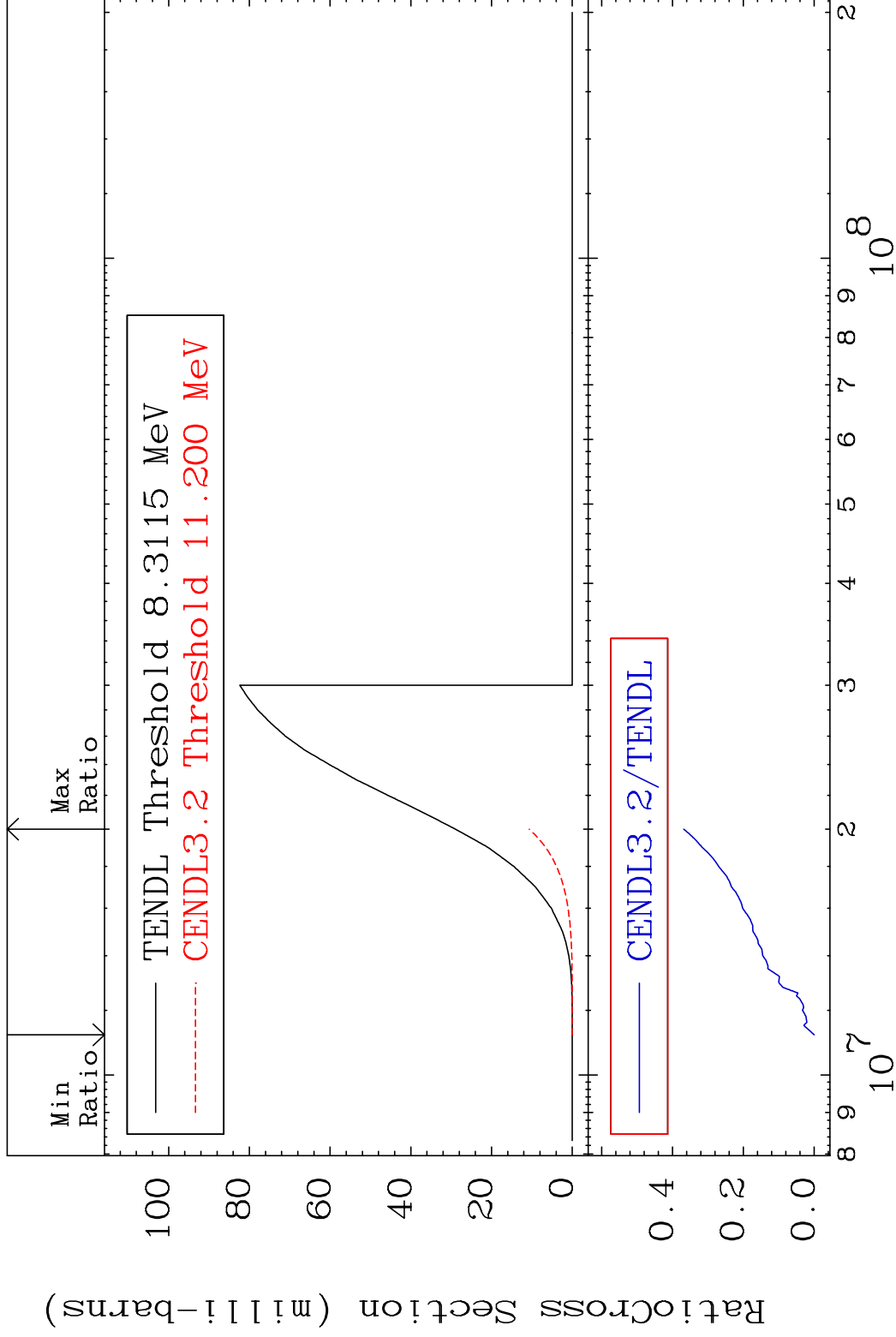


MAT 5440

(n, n') p

54-Xe-129

Cross Section -100.0 To -63.18%

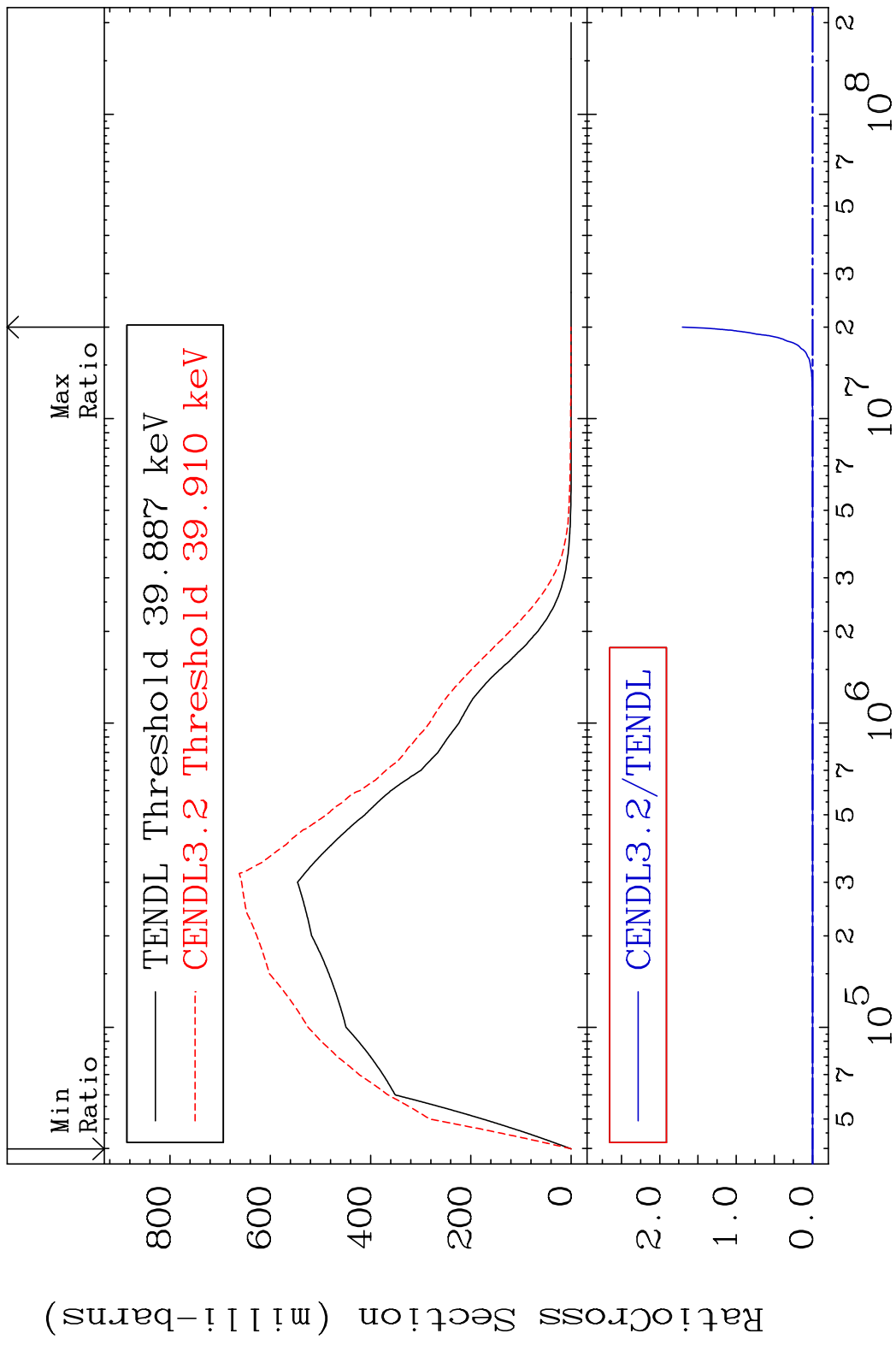


7

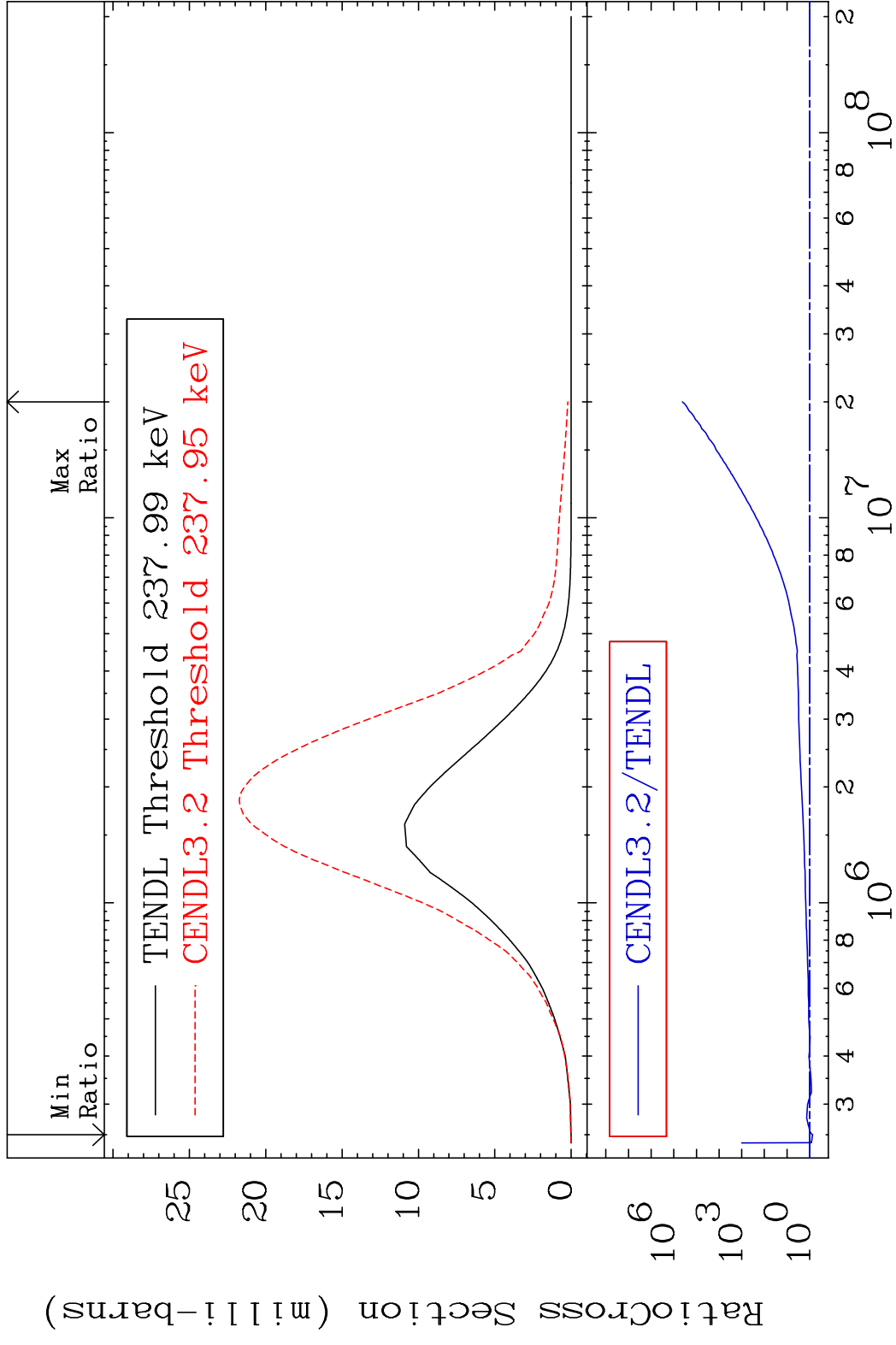
Incident Energy (eV)

54-Xe-129

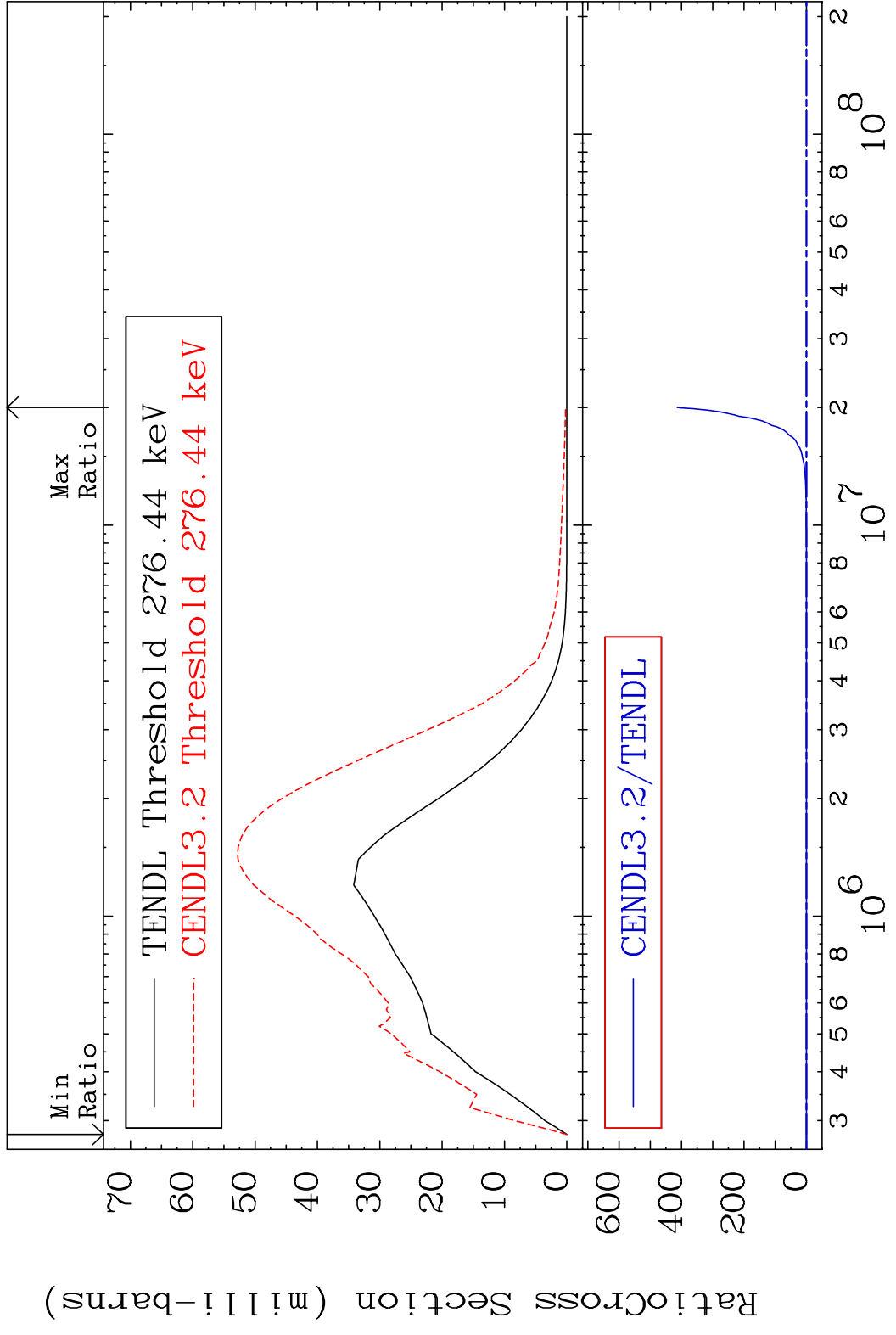
MAT 5440 MT= 51 (n, n') Level 54-Xe-129
 Cross Section -100.0 To 9999. %



MAT 5440 MT= 52 (n, n') Level 54-Xe-129
 Cross Section -25.47 To 9999. %

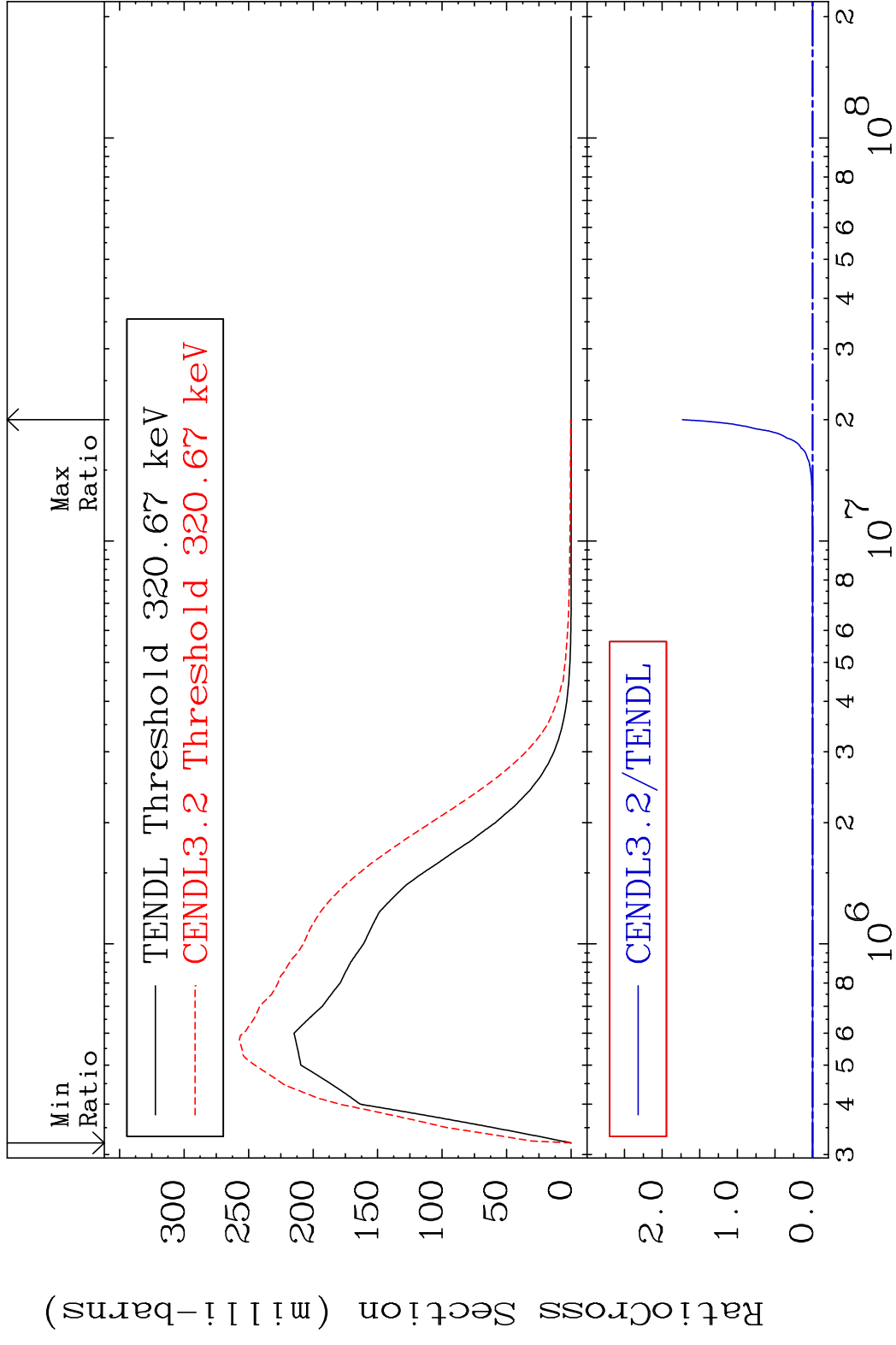


MAT 5440 MT= 53 (n, n') Level 54-Xe-129
 Cross Section -100.0 To 9999. %

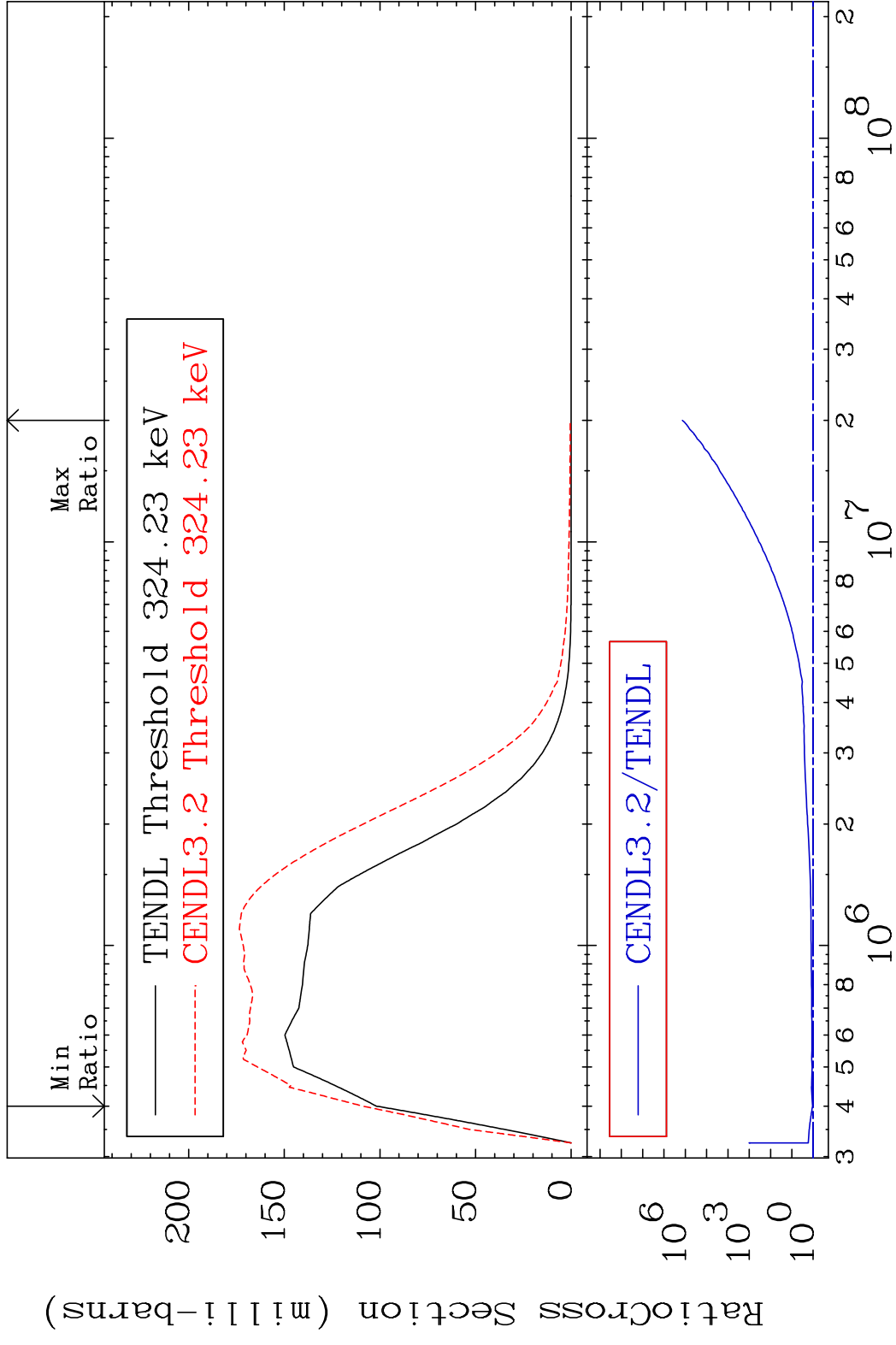


10 Incident Energy (eV) 54-Xe-129

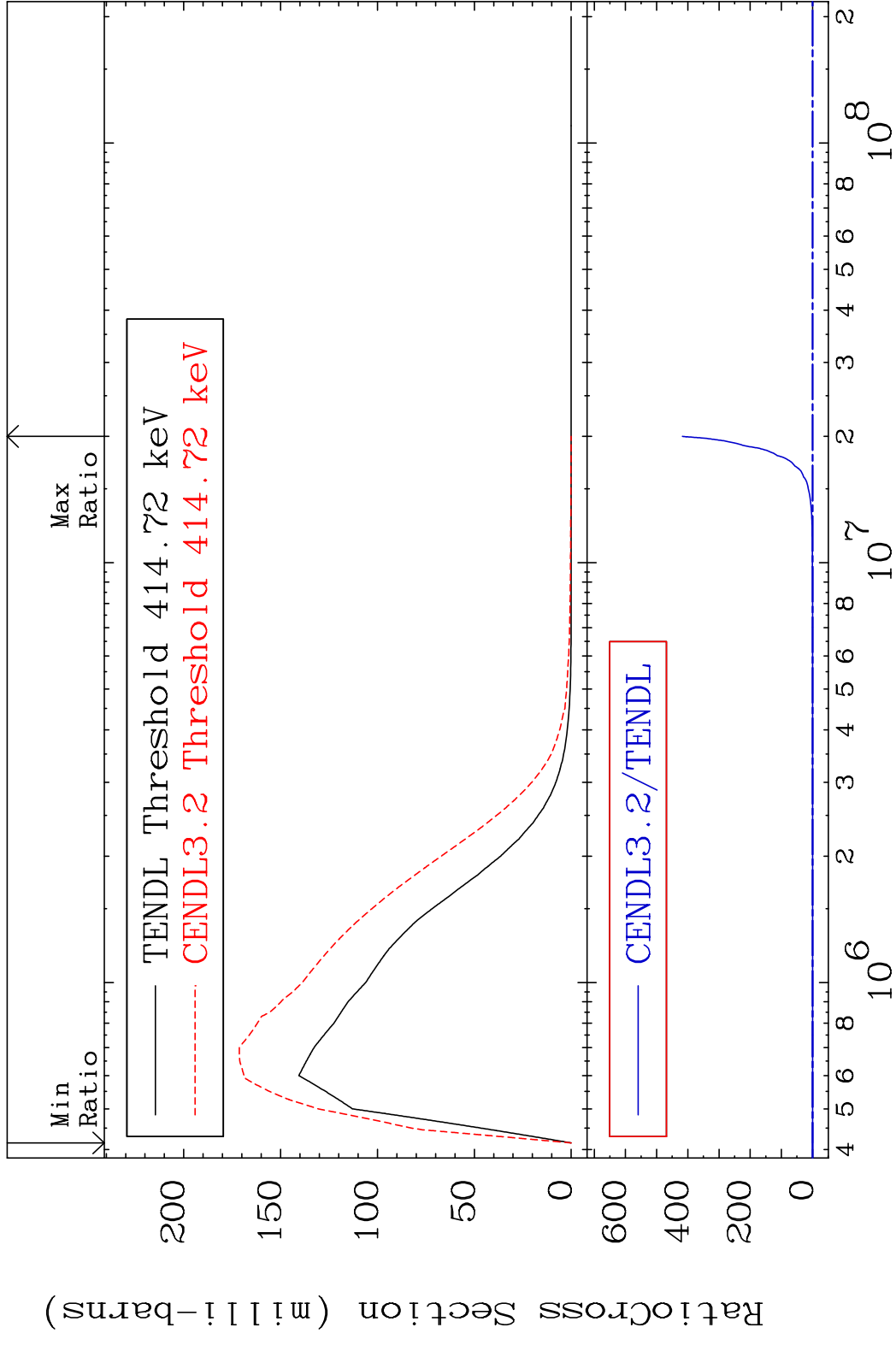
MAT 5440 MT= 54 (n,n') Level 54-Xe-129
 Cross Section -100.0 To 9999. %



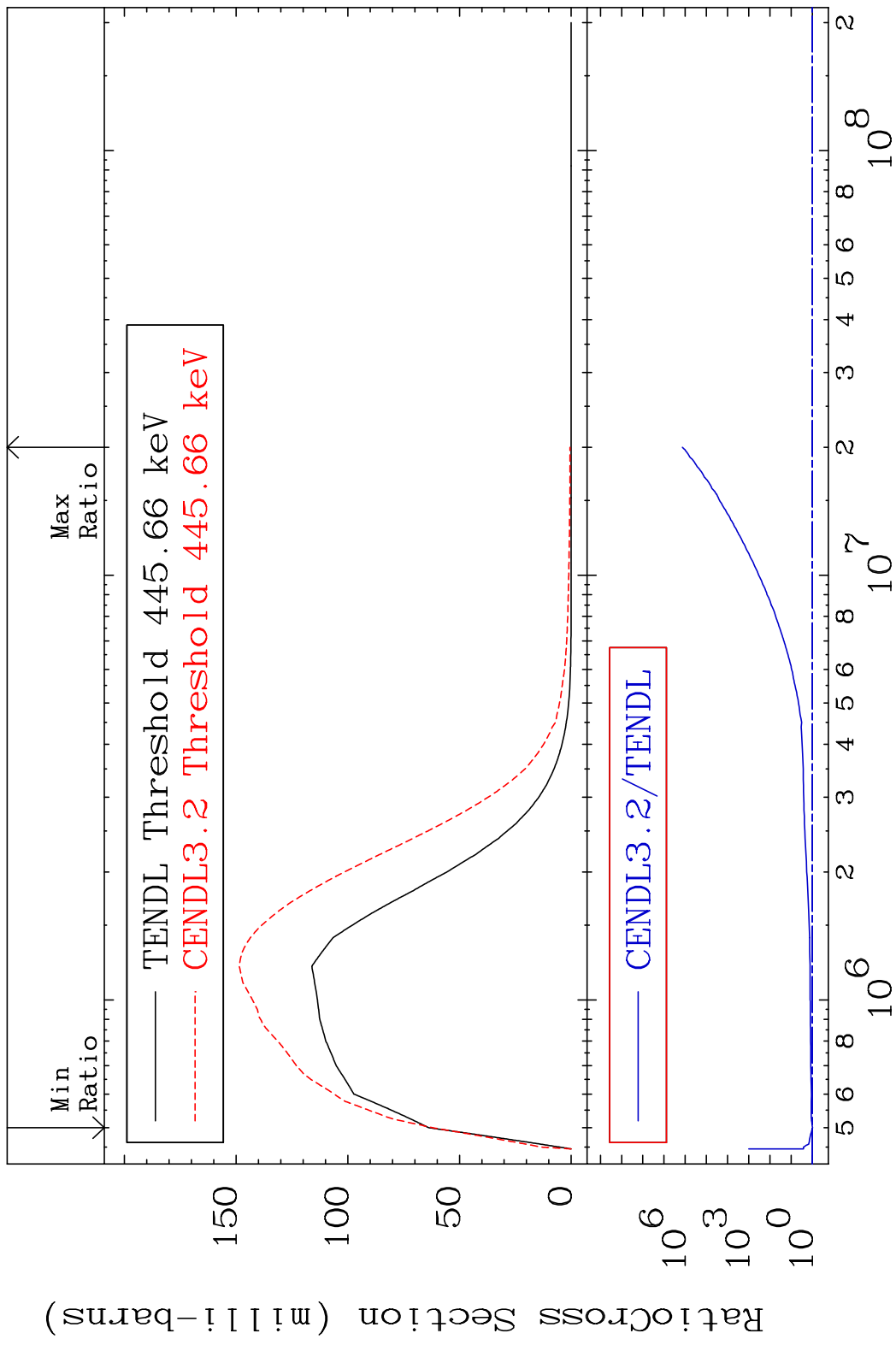
MAT 5440 MT= 55 (n, n') Level 54-Xe-129
 Cross Section 6.886 To 9999. %



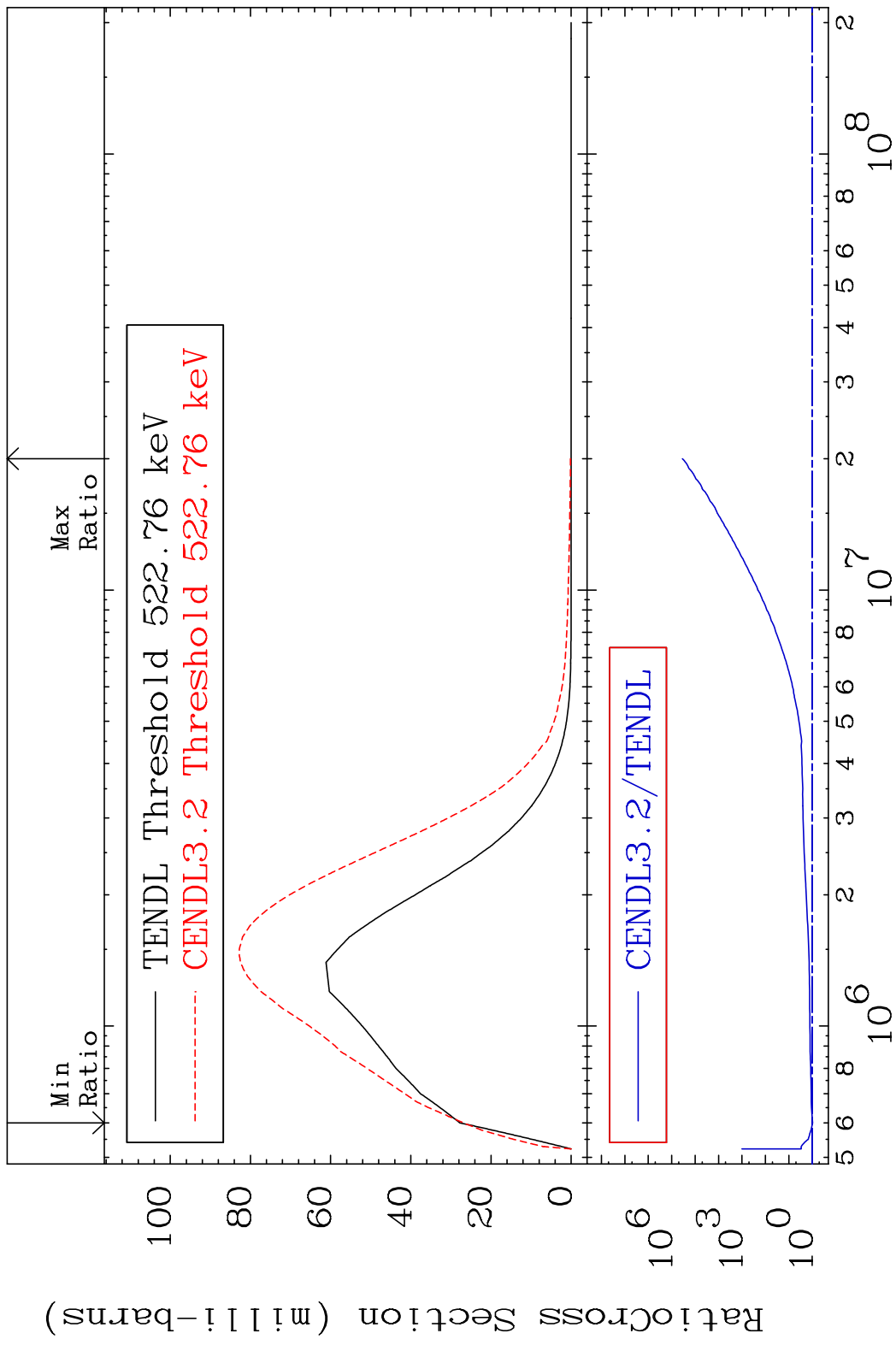
MAT 5440 MT= 56 (n, n') Level 54-Xe-129
 Cross Section -100.0 To 9999. %



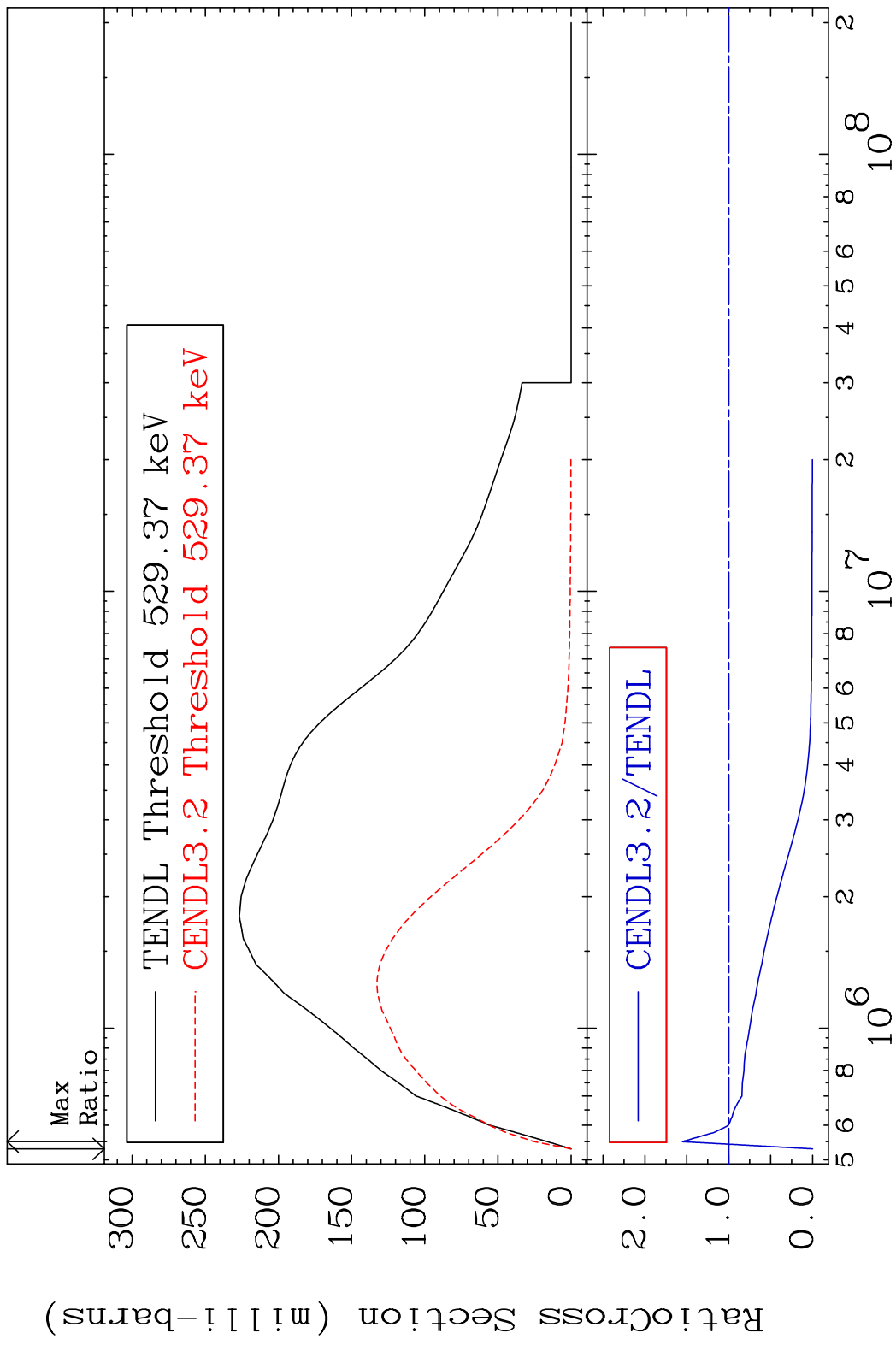
MAT 5440 MT= 57 (n, n') Level 54-Xe-129
 Cross Section -2.679 To 9999. %



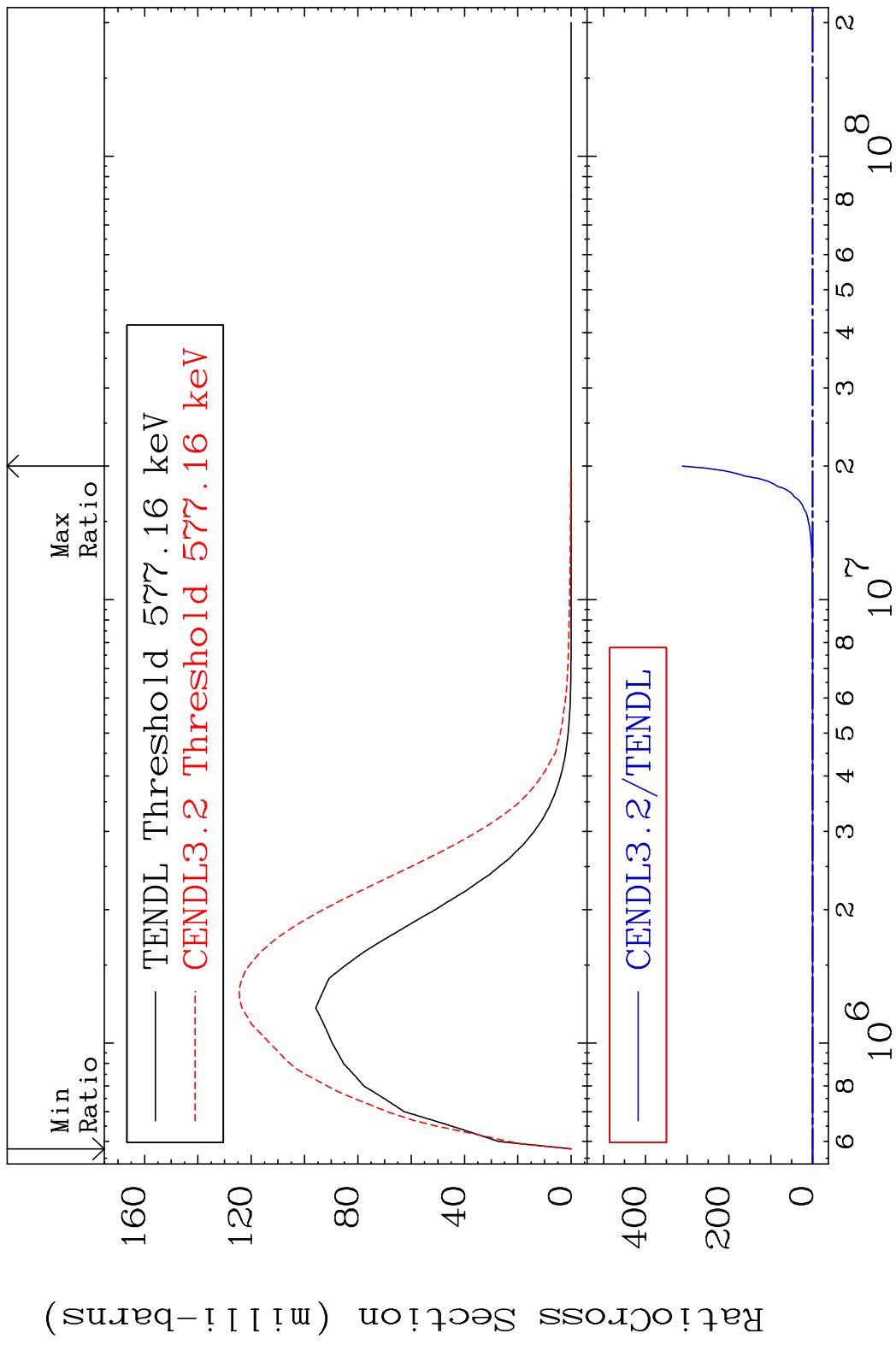
MAT 5440 MT= 58 (n, n') Level 54-Xe-129
 Cross Section -2.990 To 9999. %



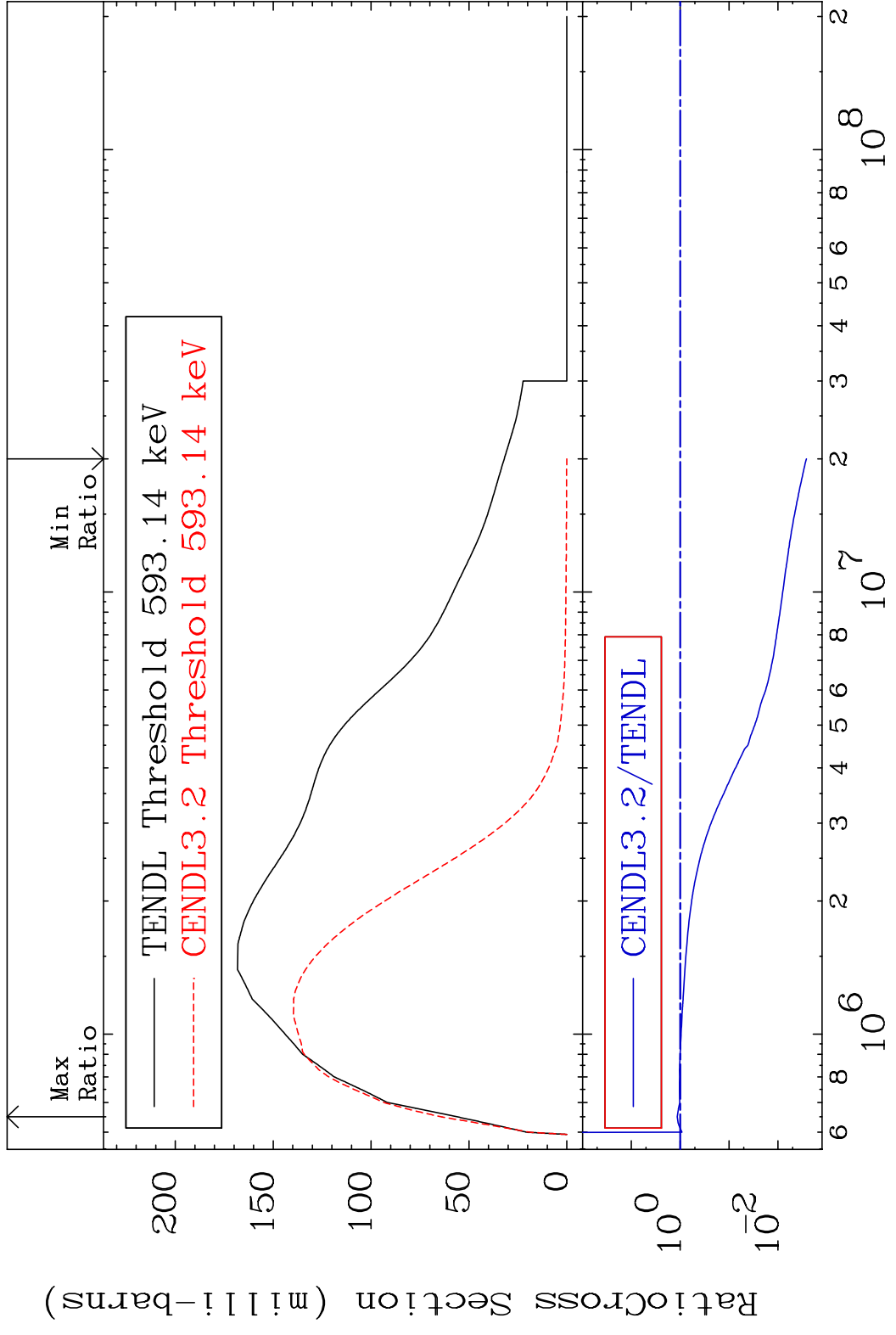
MAT 5440 MT= 59 (n, n') Level 54-Xe-129
 Cross Section -100.0 To 55.32 %



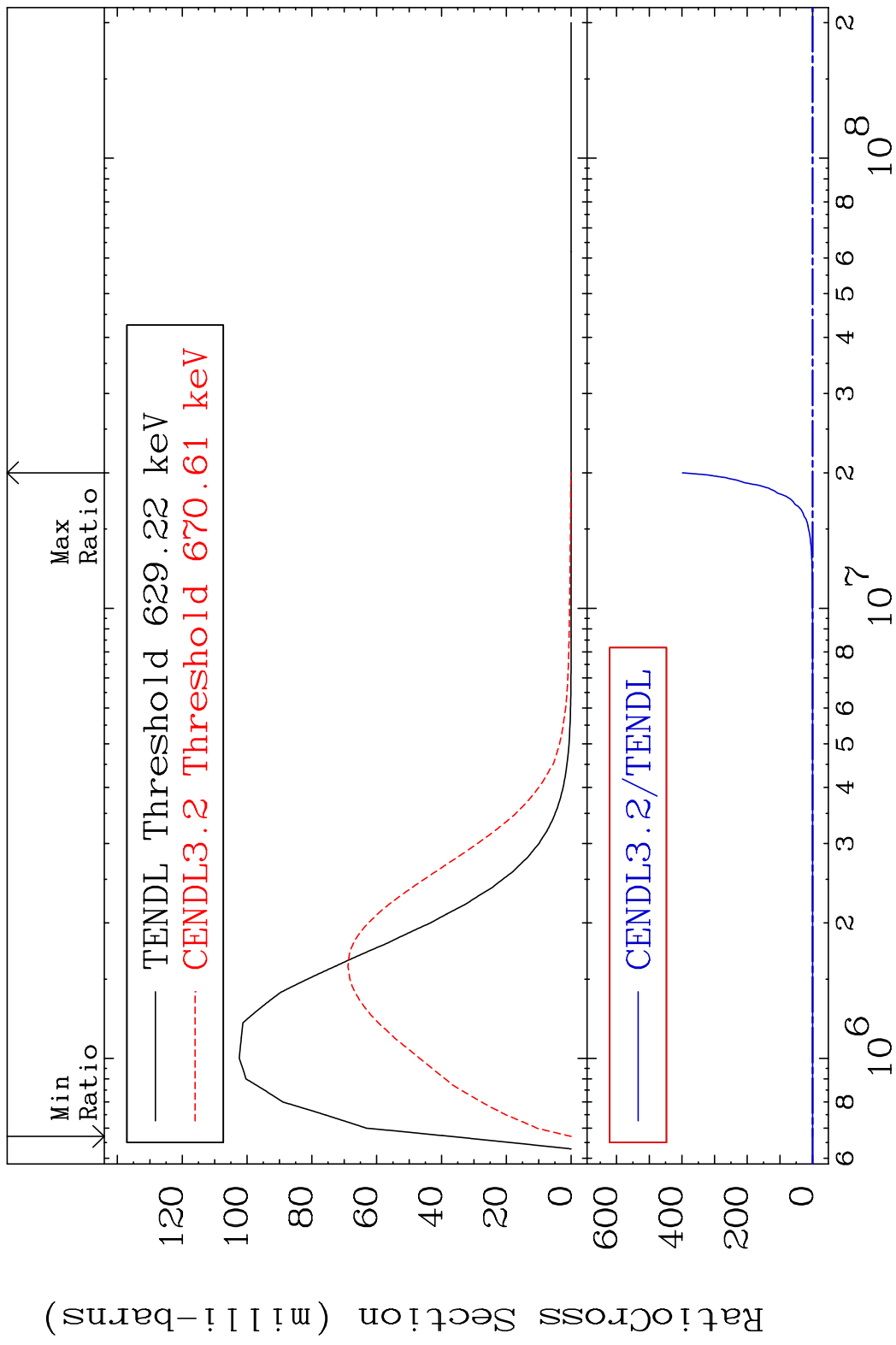
MAT 5440 MT= 60 (n, n') Level 54-Xe-129
 Cross Section -100.0 To 9999. %



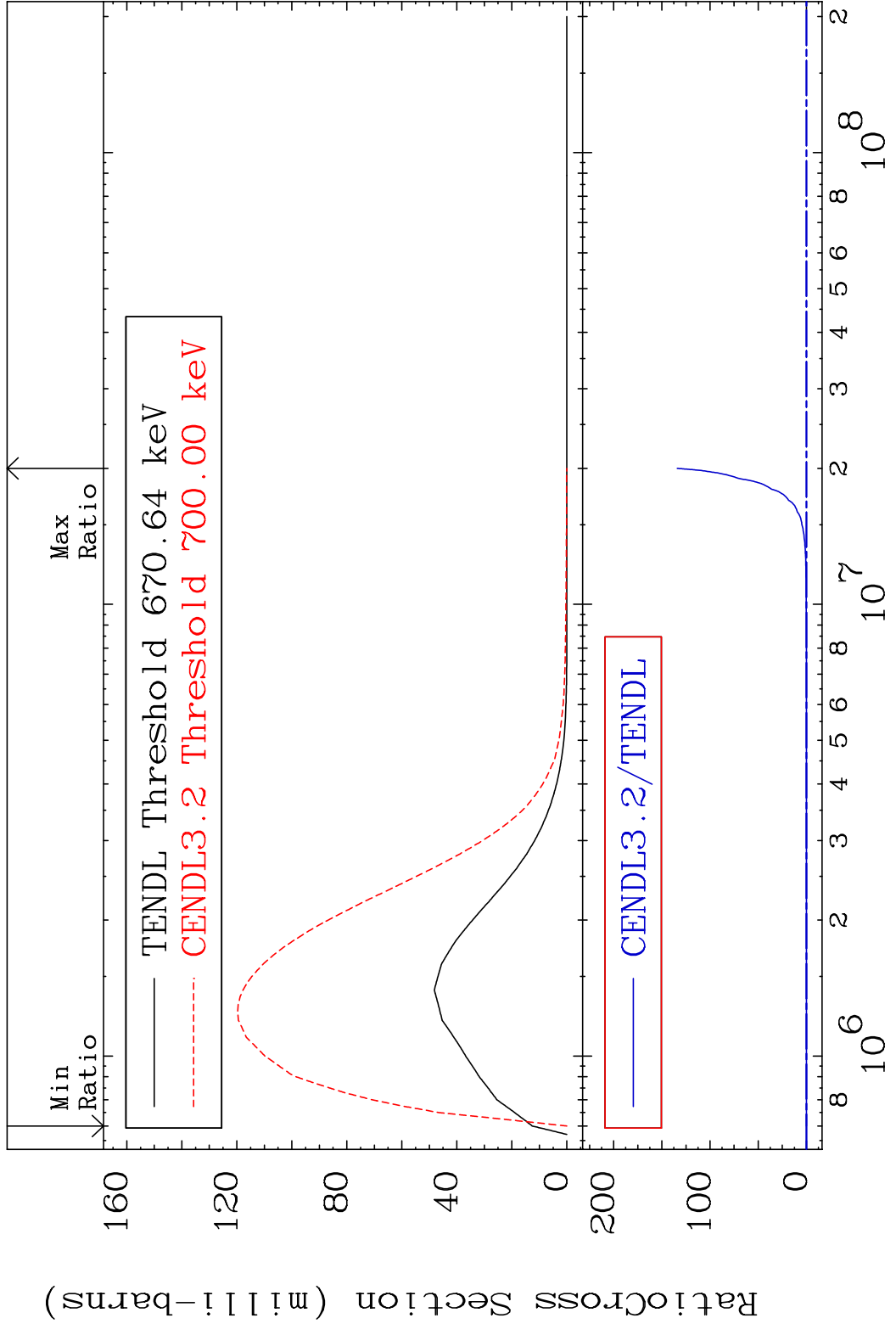
MAT 5440 MT= 61 (n, n') Level 54-Xe-129
 Cross Section -99.74 To 14.73 %



MAT 5440 MT= 62 (n, n') Level 54-Xe-129
 Cross Section -100.0 To 9999. %

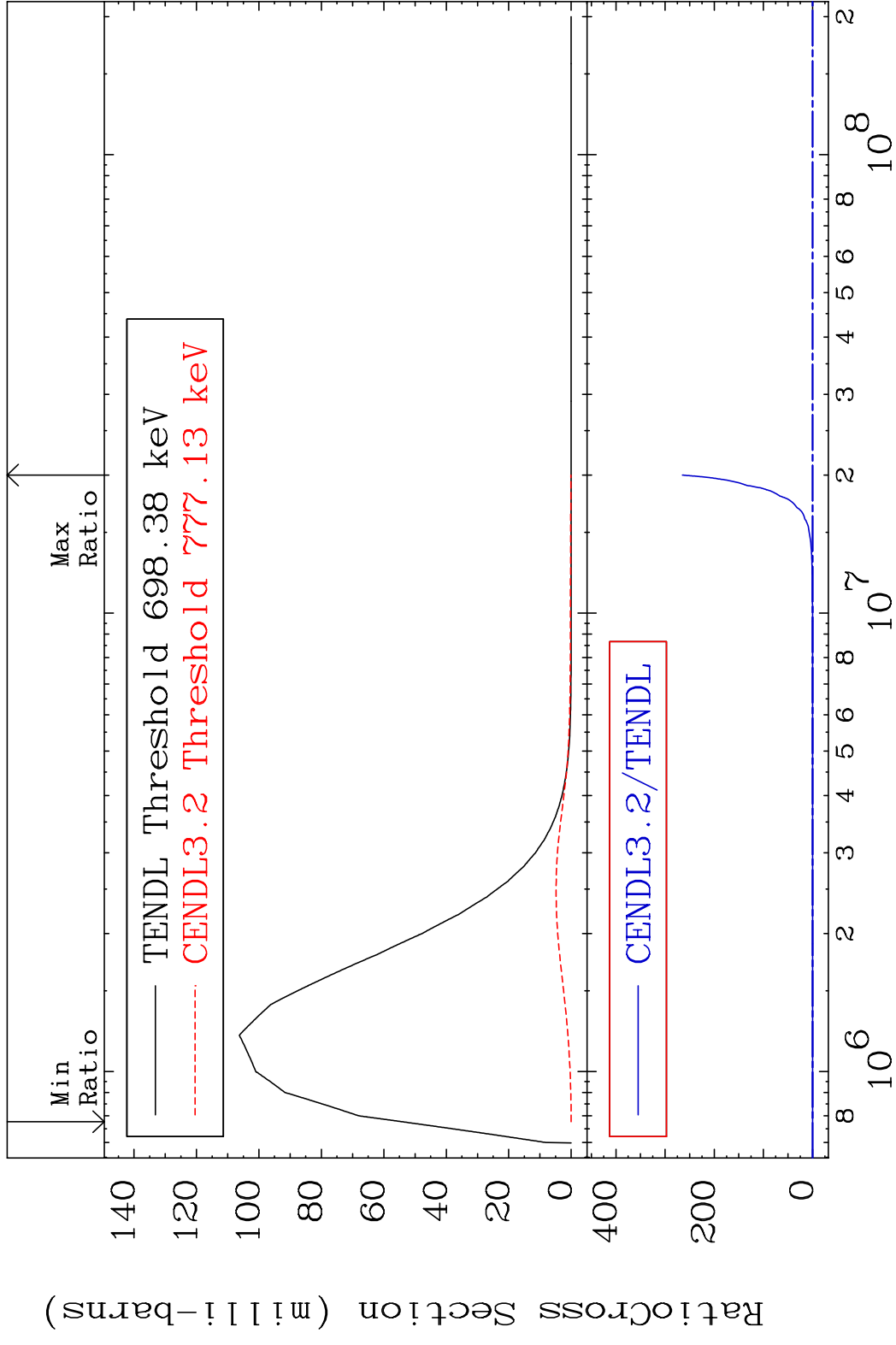


MAT 5440 MT= 63 (n, n') Level 54-Xe-129
 Cross Section -100.0 To 9999. %

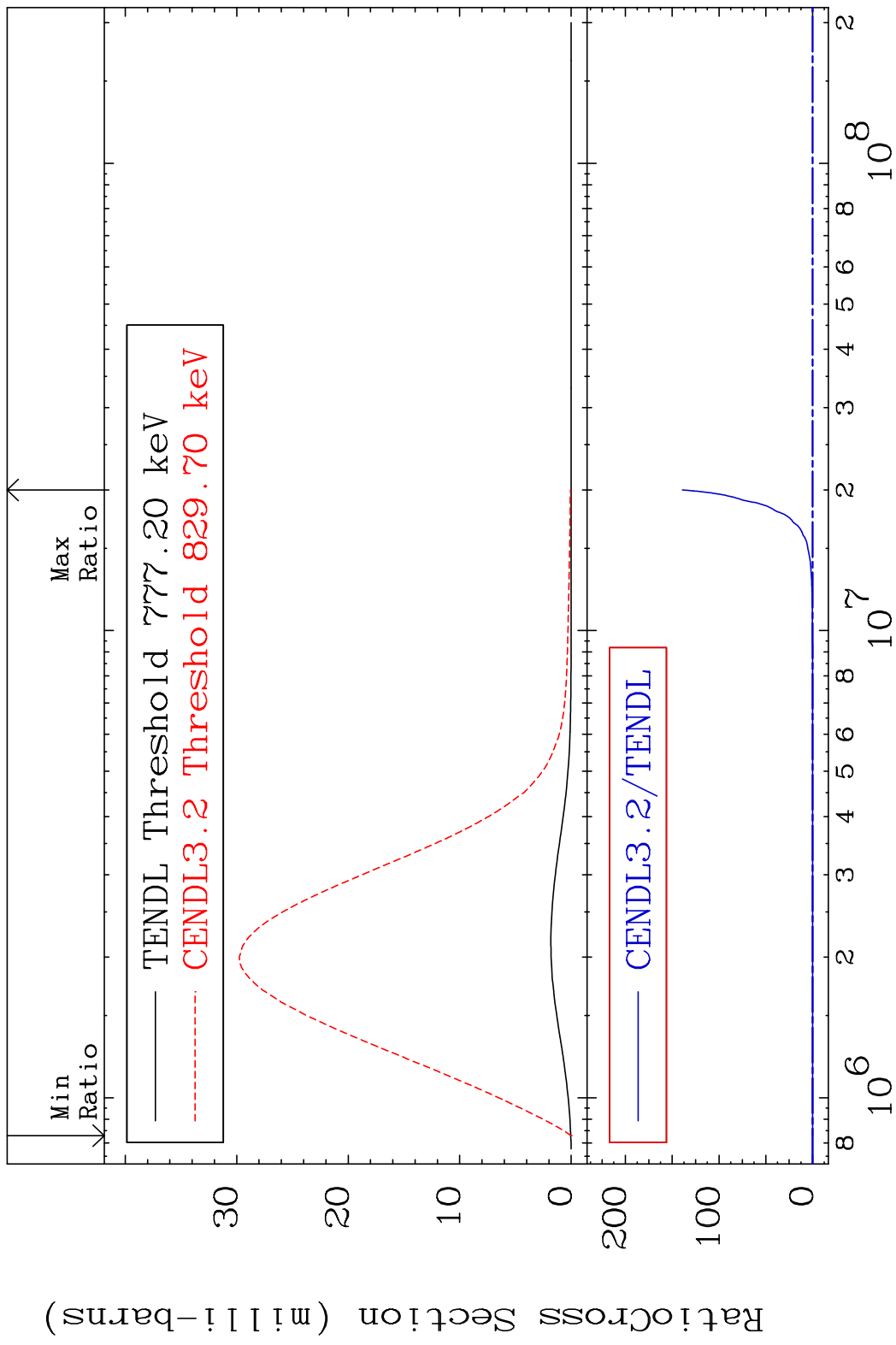


20 Incident Energy (eV) 54-Xe-129

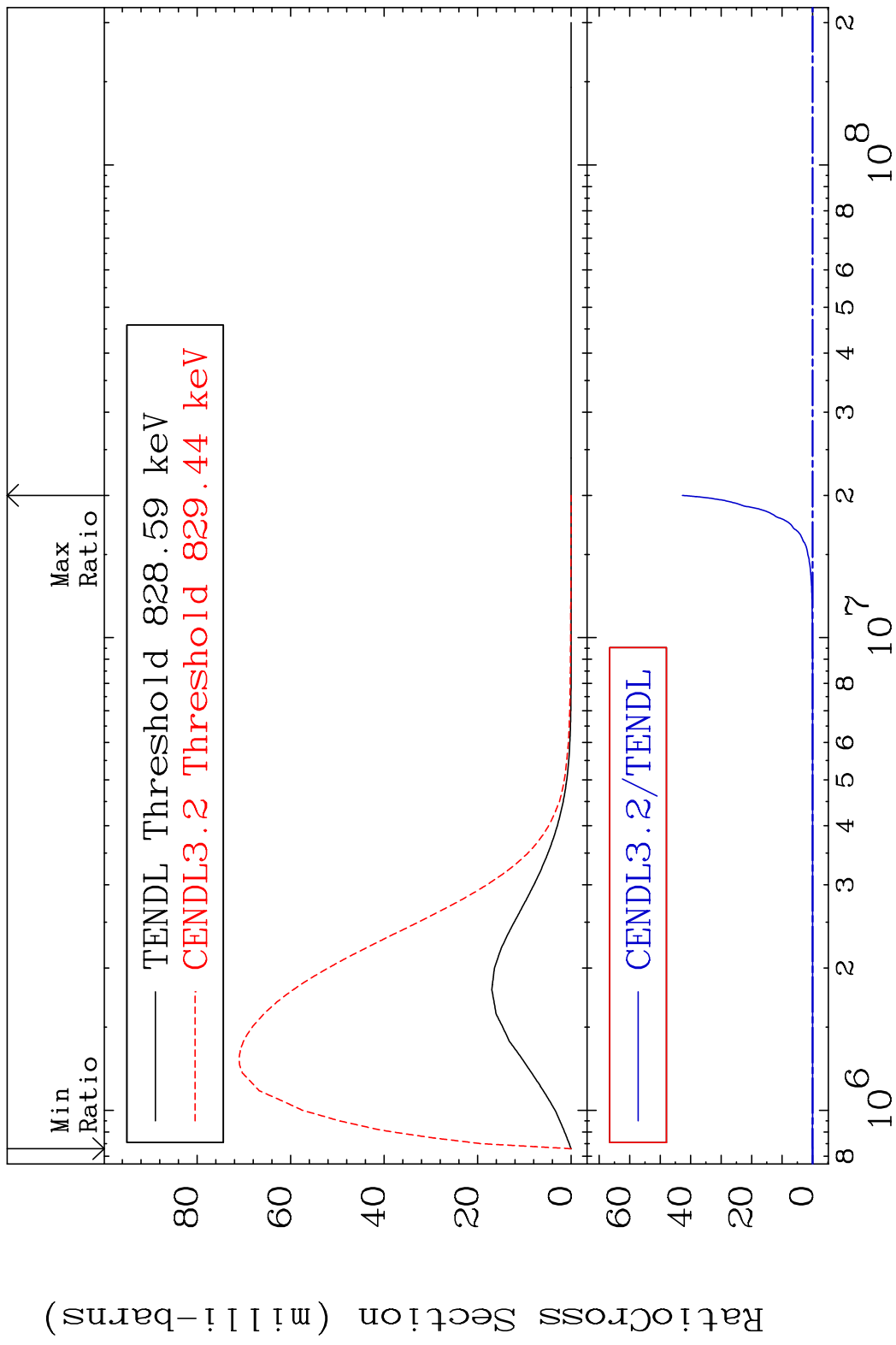
MAT 5440 MT= 64 (n, n') Level 54-Xe-129
 Cross Section -100.0 To 9999. %



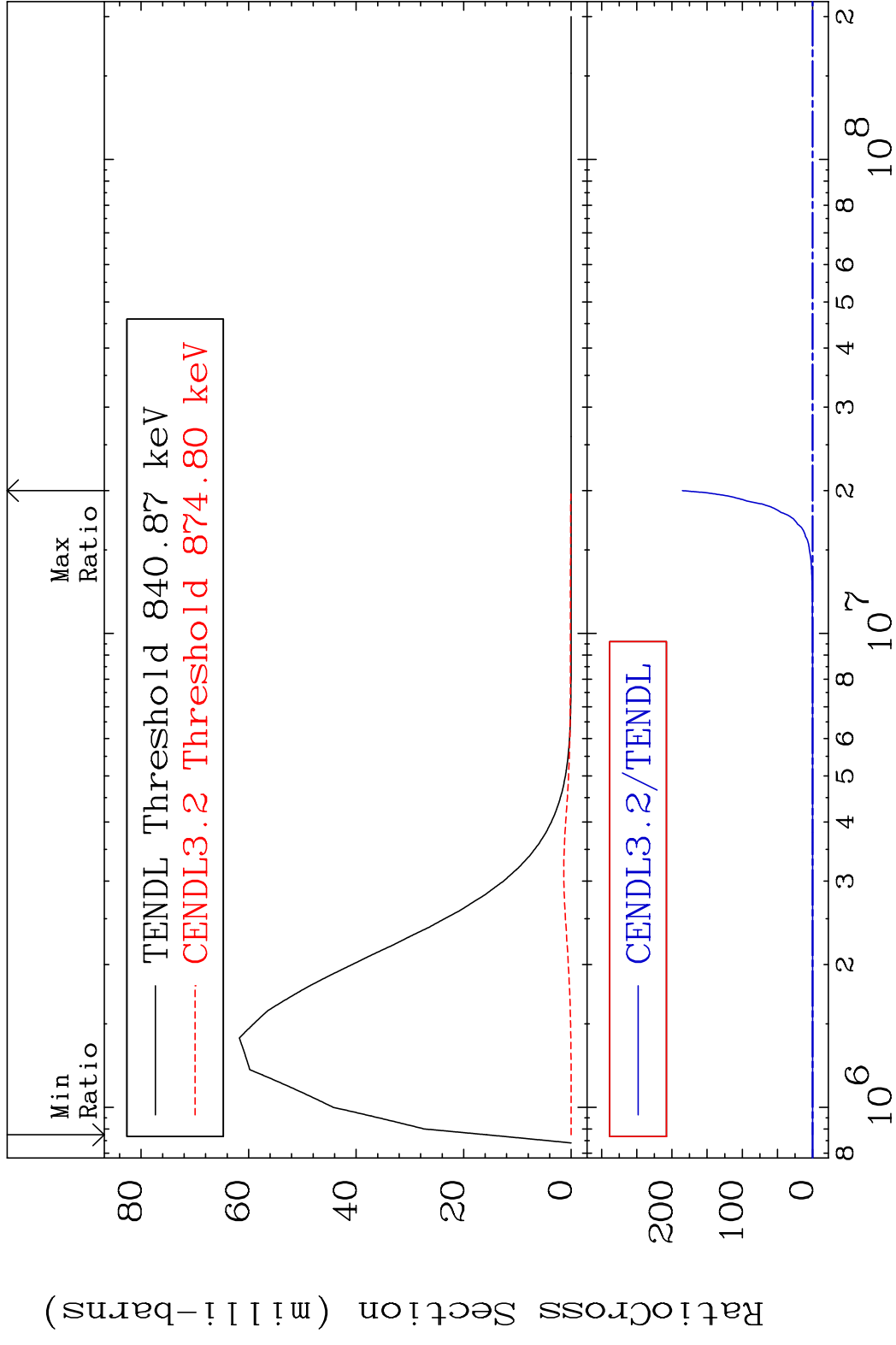
MAT 5440 MT= 65 (n, n') Level 54-Xe-129
 Cross Section -100.0 To 9999. %



MAT 5440 MT= 66 (n, n') Level 54-Xe-129
 Cross Section -100.0 To 9999. %

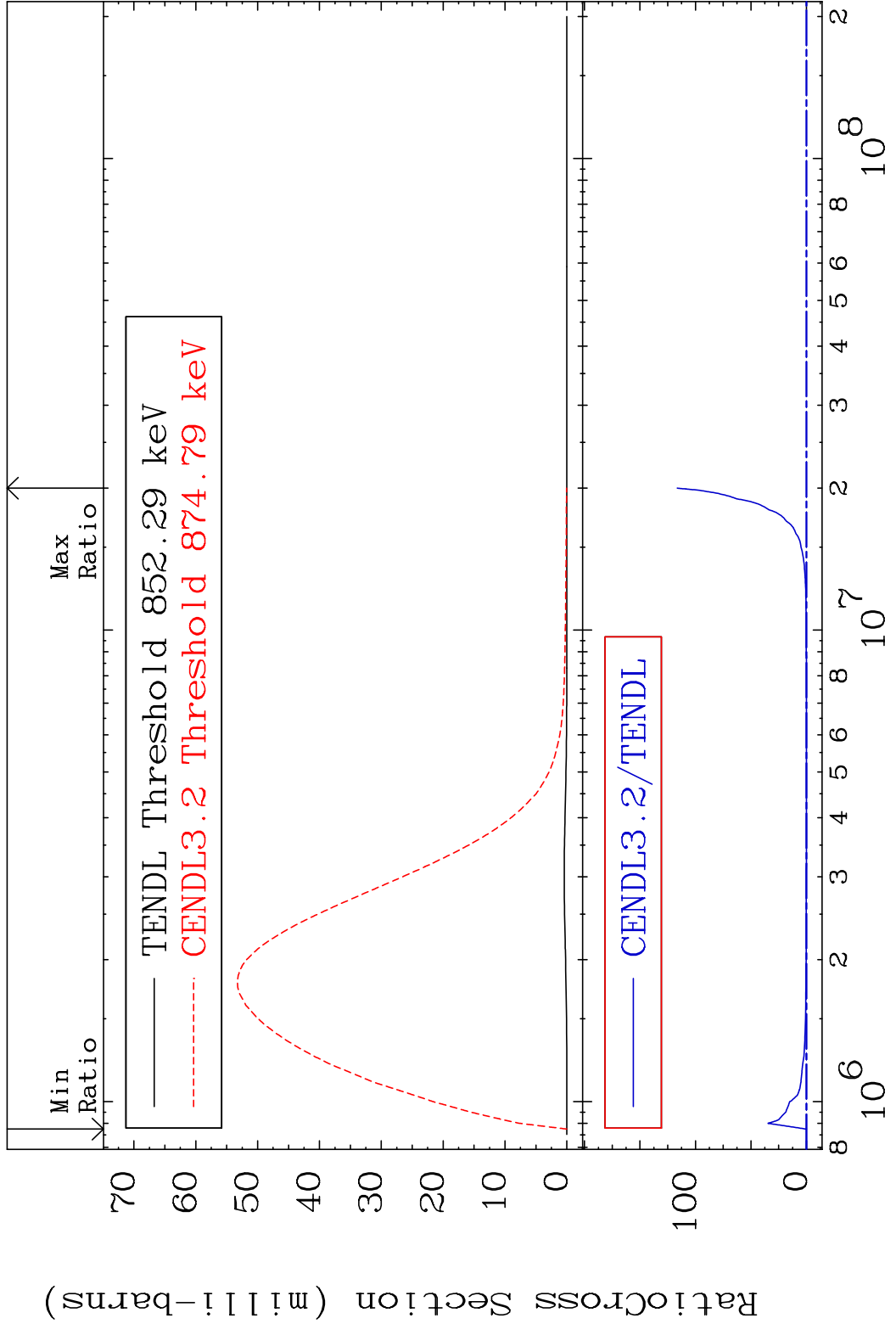


MAT 5440 MT= 67 (n, n') Level 54-Xe-129
 Cross Section -100.0 To 9999. %

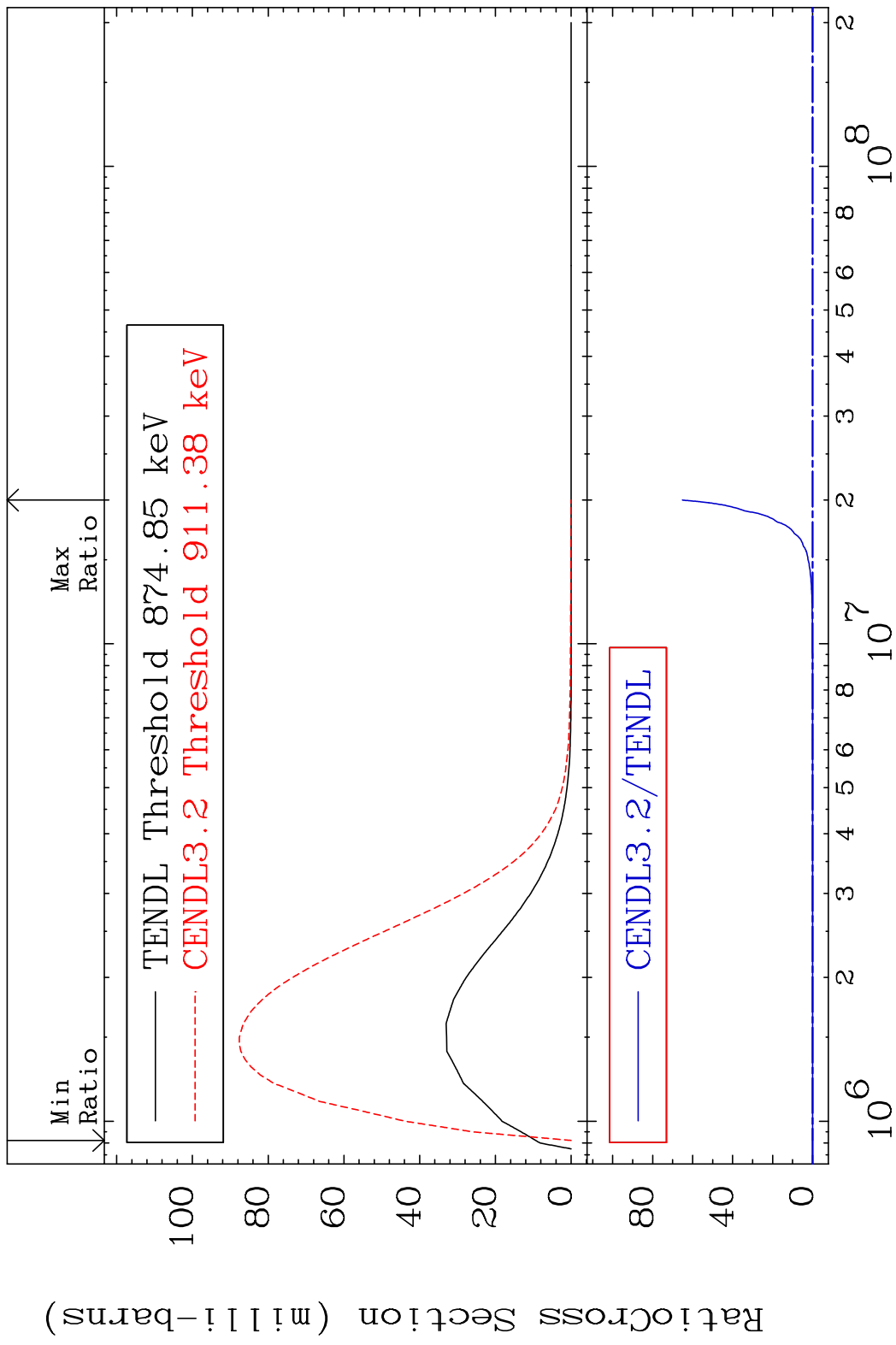


24 Incident Energy (eV) 54-Xe-129

MAT 5440 MT= 68 (n, n') Level 54-Xe-129
 Cross Section -100.0 To 9999. %



MAT 5440 MT= 69 (n, n') Level 54-Xe-129
 Cross Section -100.0 To 9999. %



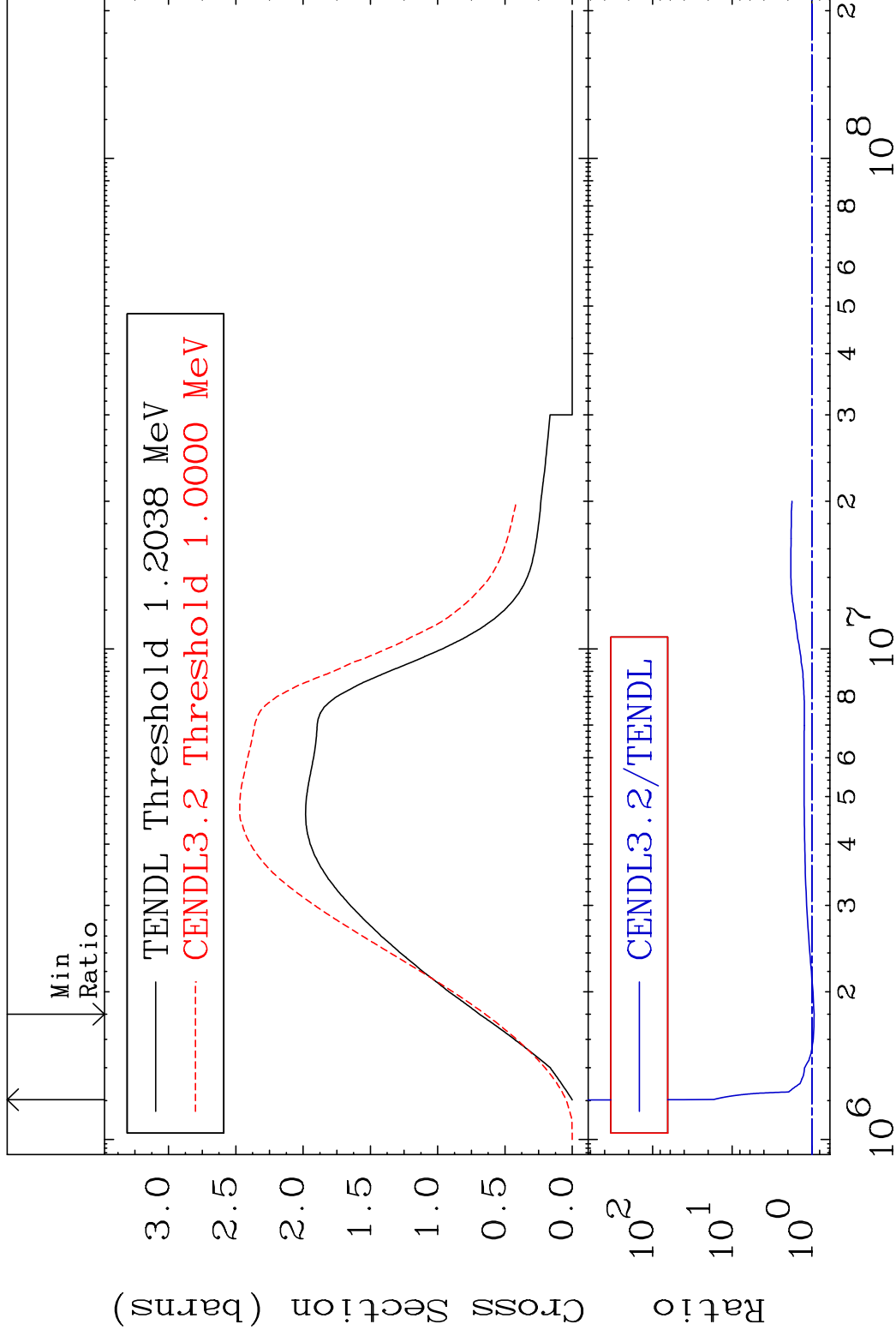
26 Incident Energy (eV) 54-Xe-129

MAT 5440

(n, n') Continuum

54-Xe-129

Cross Section -6.267 To 3968. %



27

Incident Energy (eV)

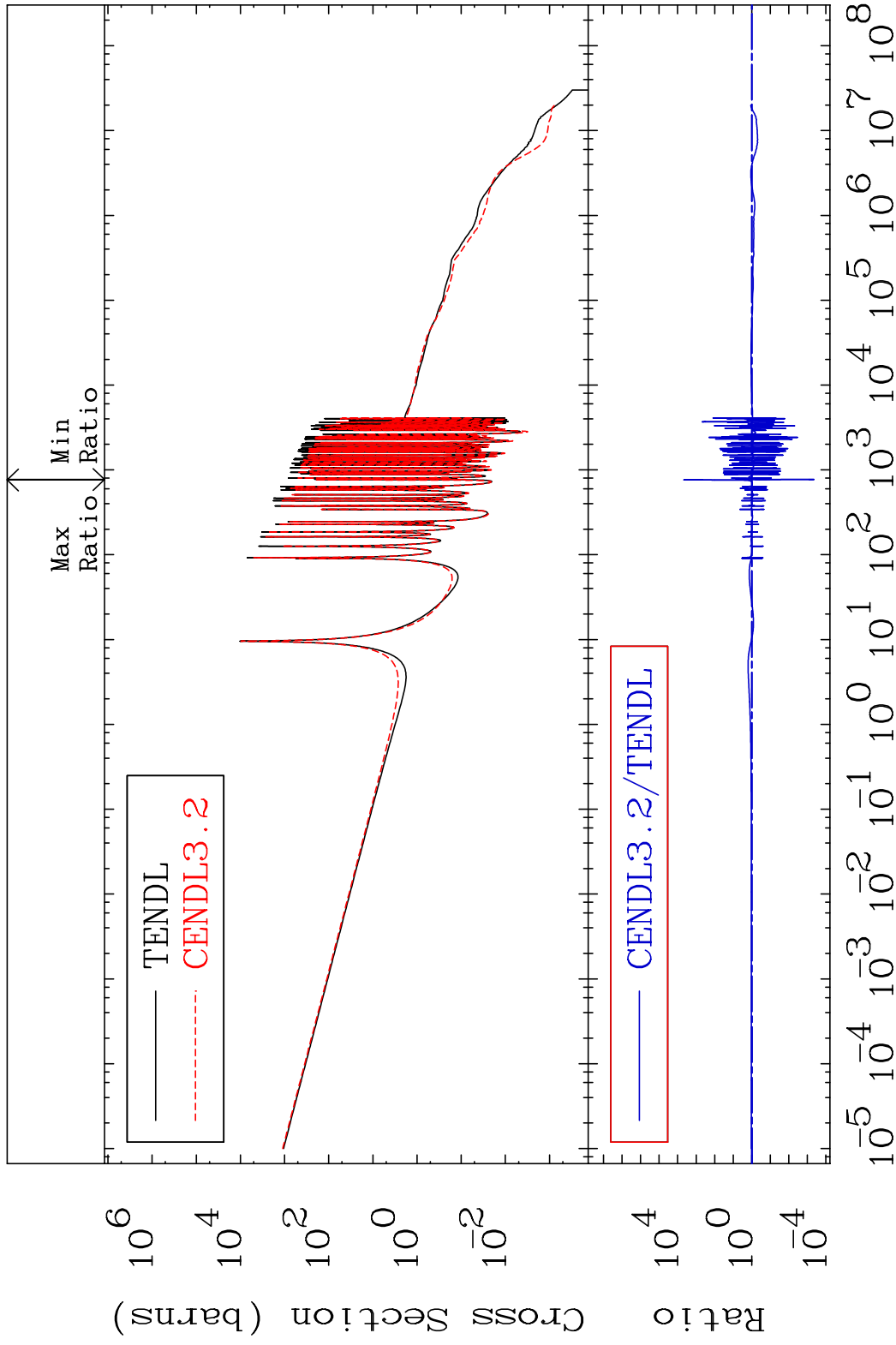
54-Xe-129

MAT 5440

(n, γ)

54-Xe-129

Cross Section -99.96 To 9999. %



28

Incident Energy (eV)

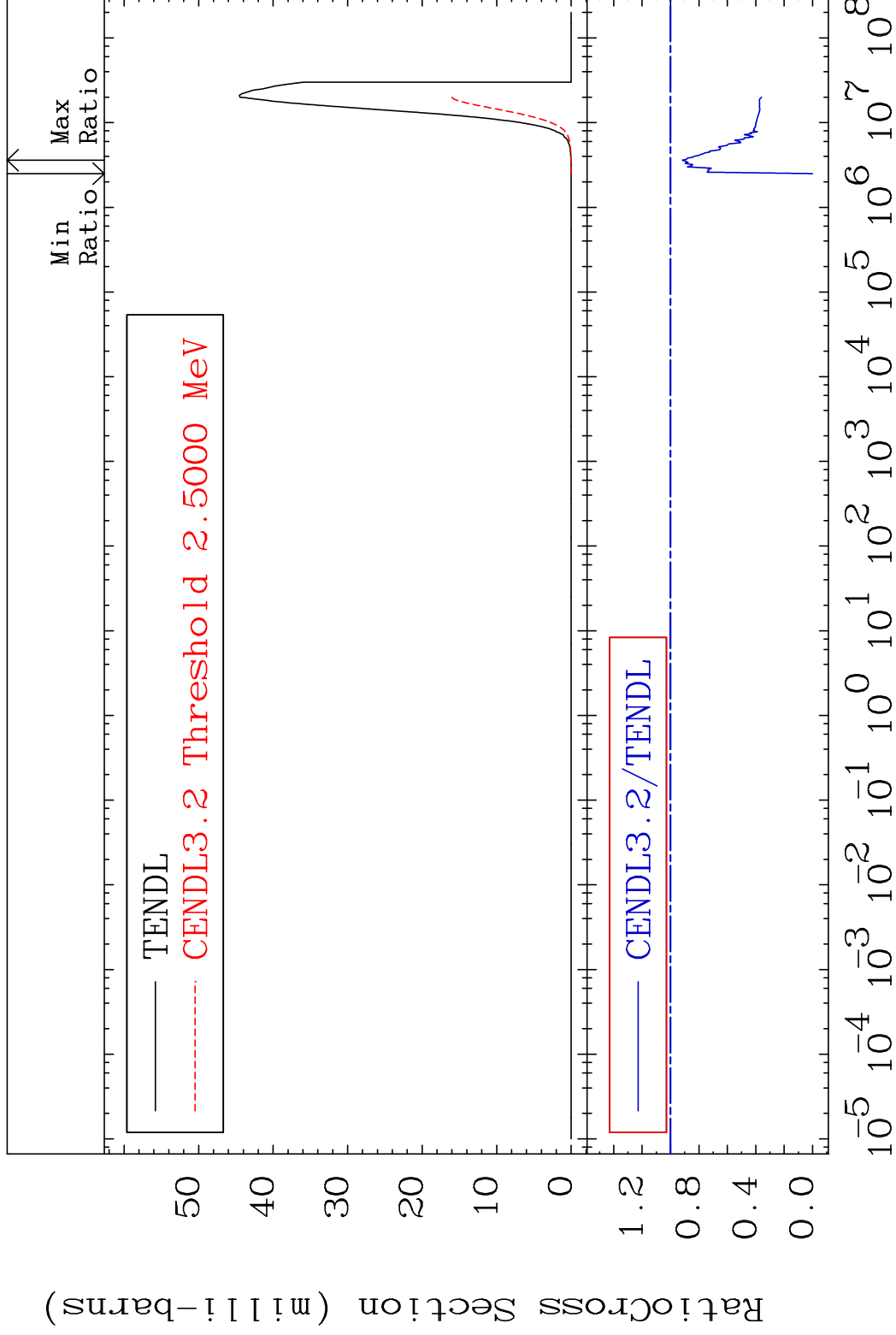
54-Xe-129

MAT 5440

(n, p)

54-Xe-129

Cross Section -100.0 To -8.326%

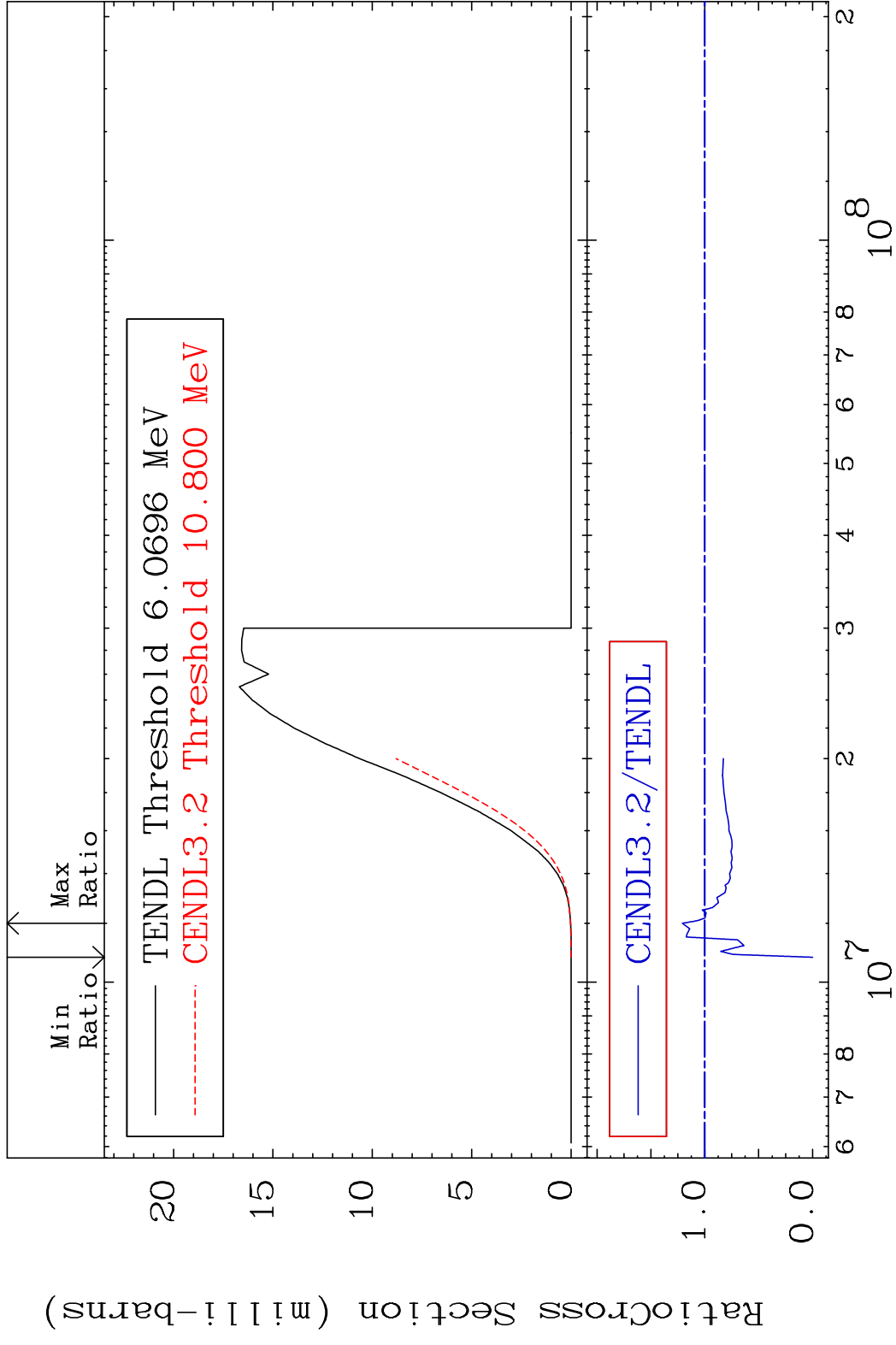


29

Incident Energy (eV)

54-Xe-129

MAT 5440 (n,d) 54-Xe-129
 Cross Section -100.0 To 20.80 %



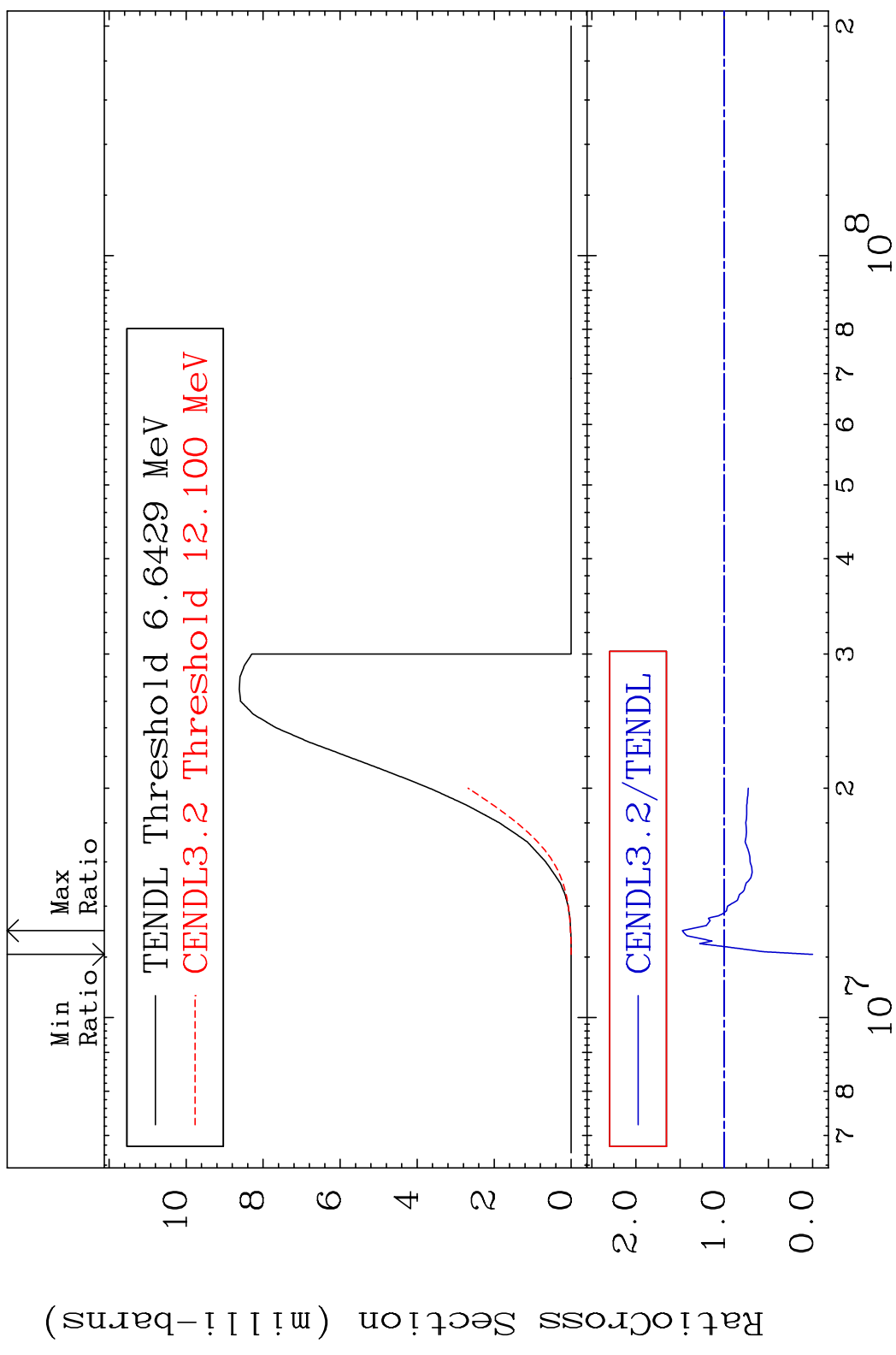
30 Incident Energy (eV) 54-Xe-129

MAT 5440

(n, t)

54-Xe-129

Cross Section -100.0 To 47.41 %

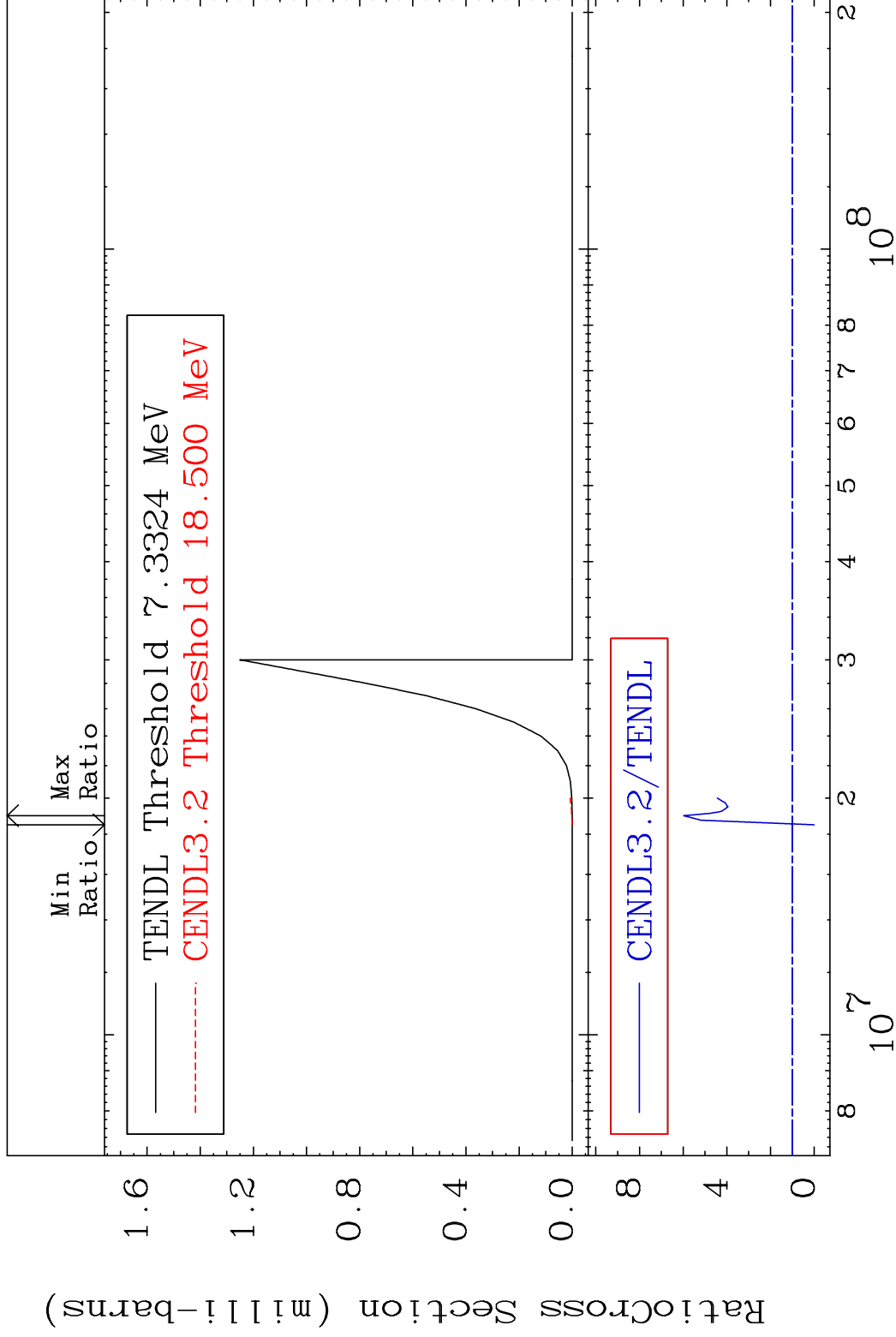


MAT 5440

(n, He-3)

54-Xe-129

Cross Section -100.0 To 497.7 %



32

Incident Energy (eV)

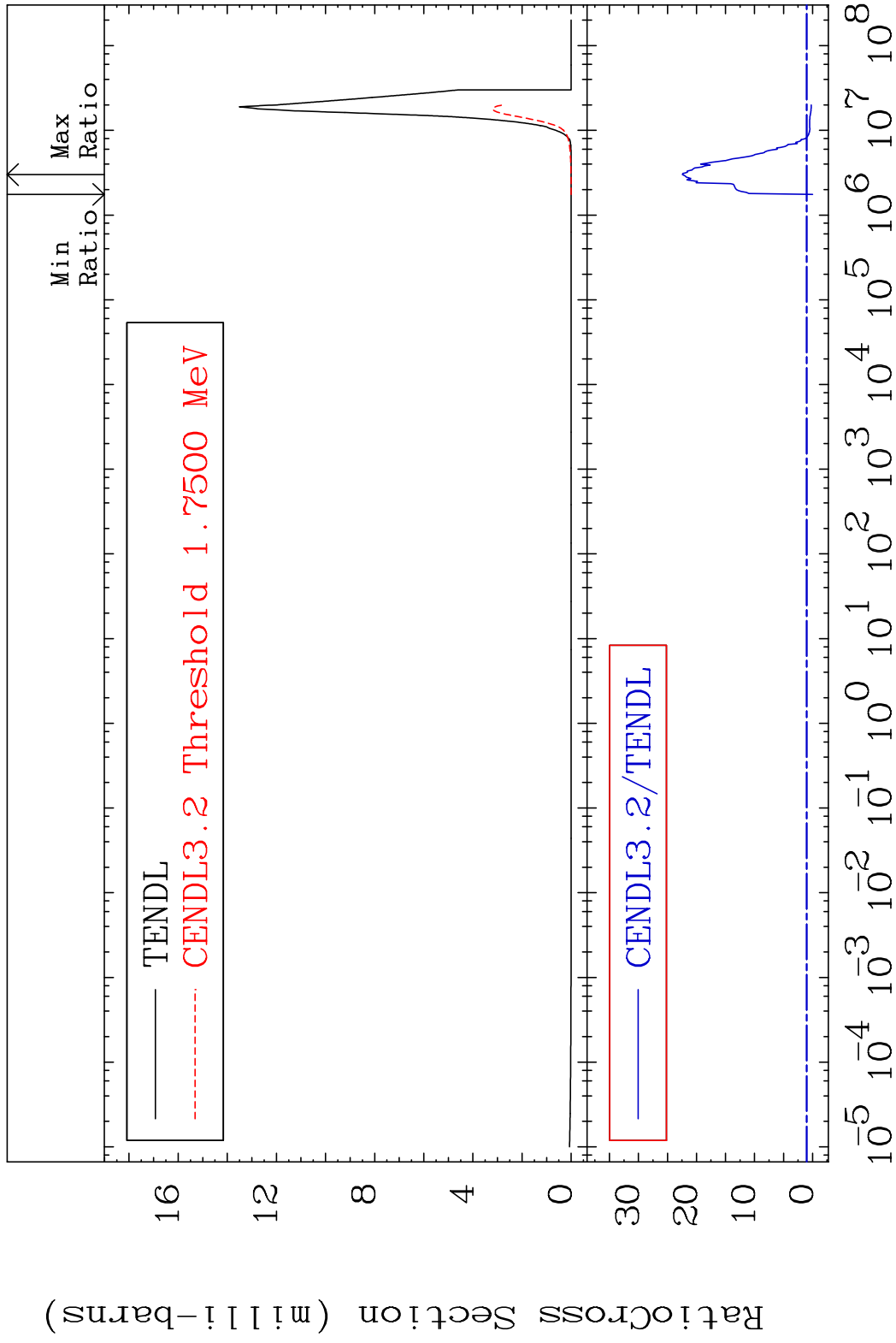
54-Xe-129

MAT 5440

(n, α)

54-Xe-129

Cross Section -100.0 To 2143. %



33

Incident Energy (eV)

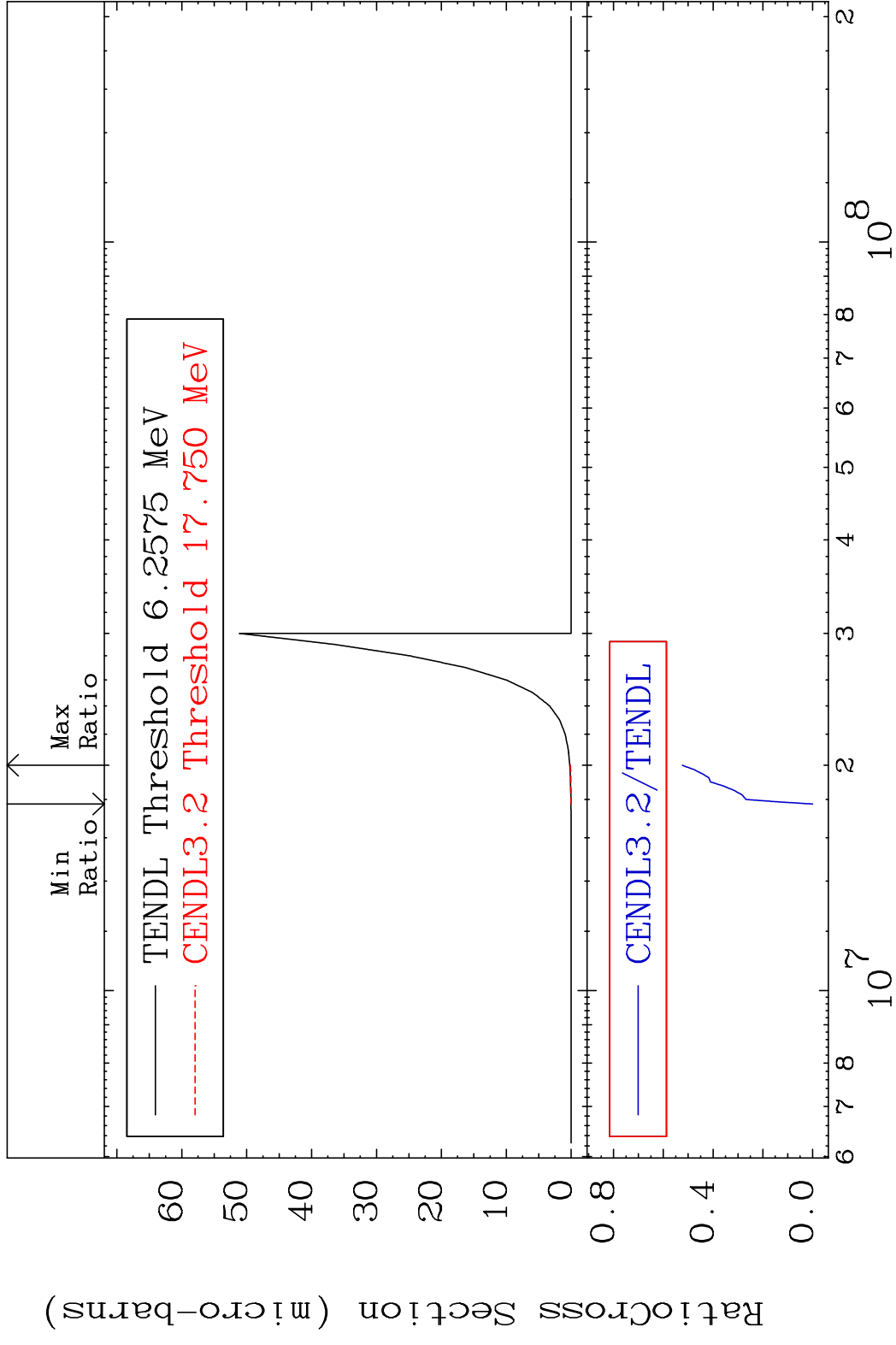
54-Xe-129

MAT 5440

(n,2p)

54-Xe-129

Cross Section -100.0 To -47.65%

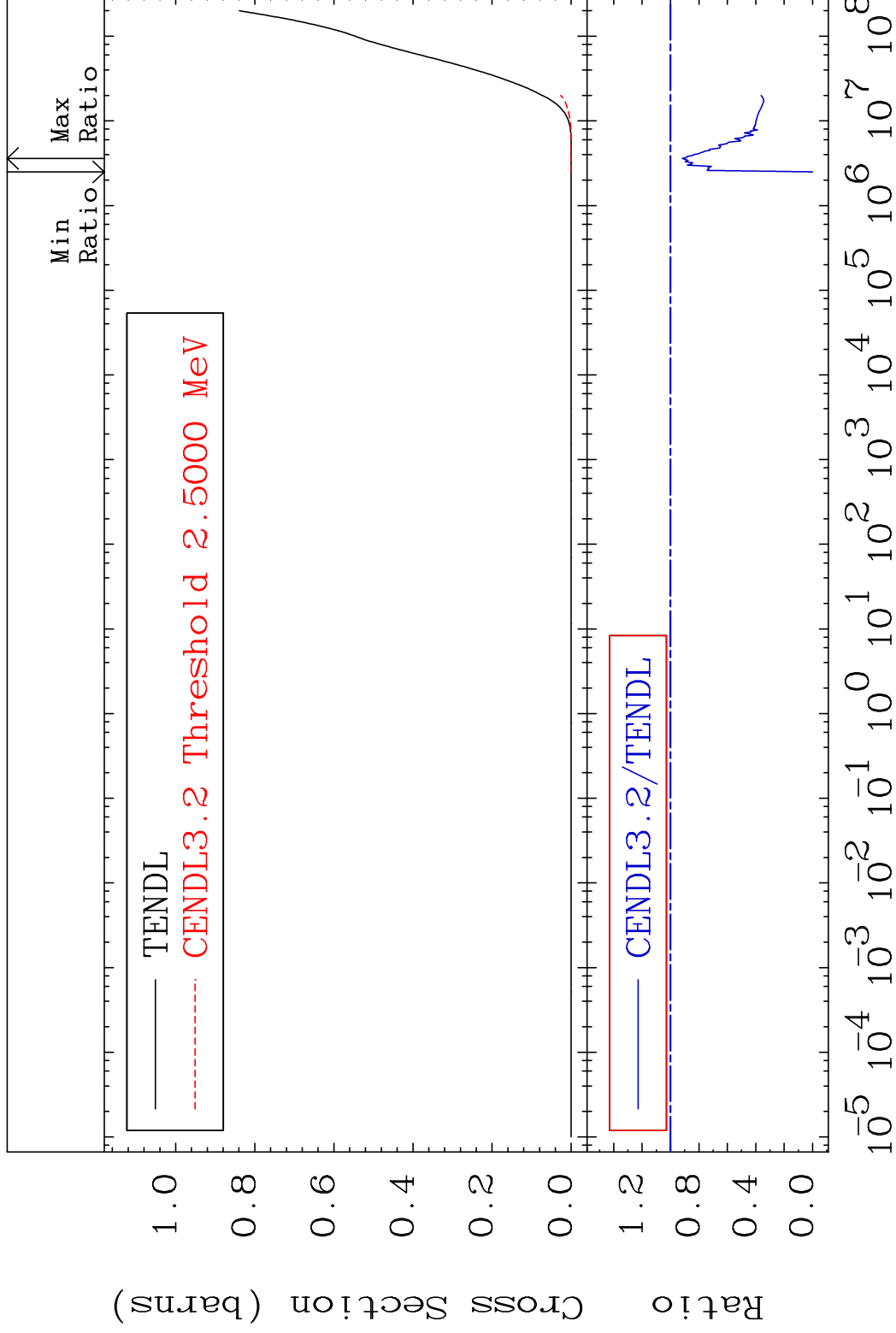


MAT 5440

Hydrogen Production

54-Xe-129

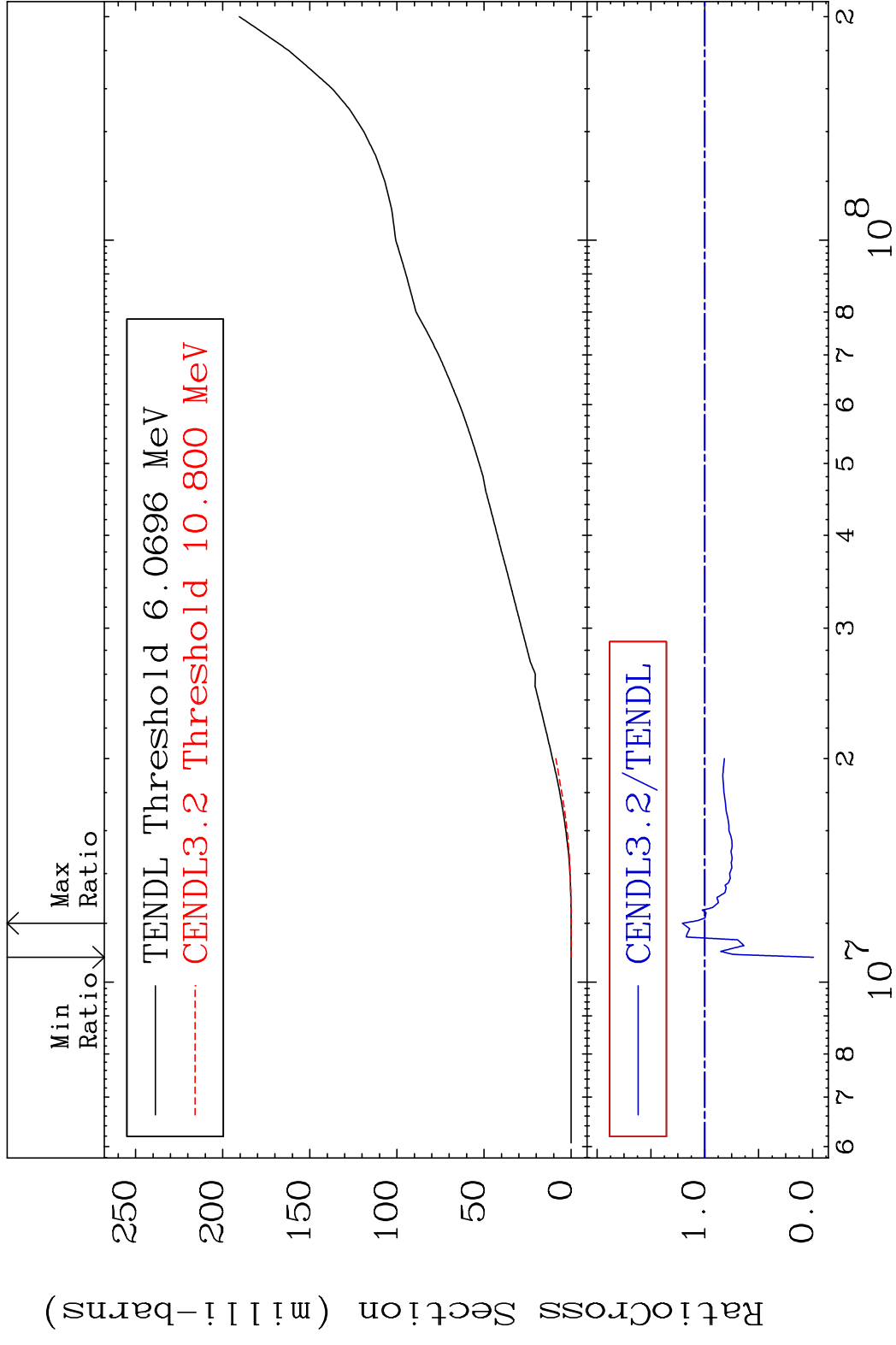
Cross Section -100.0 To -8.326%



35

Incident Energy (eV)

54-Xe-129

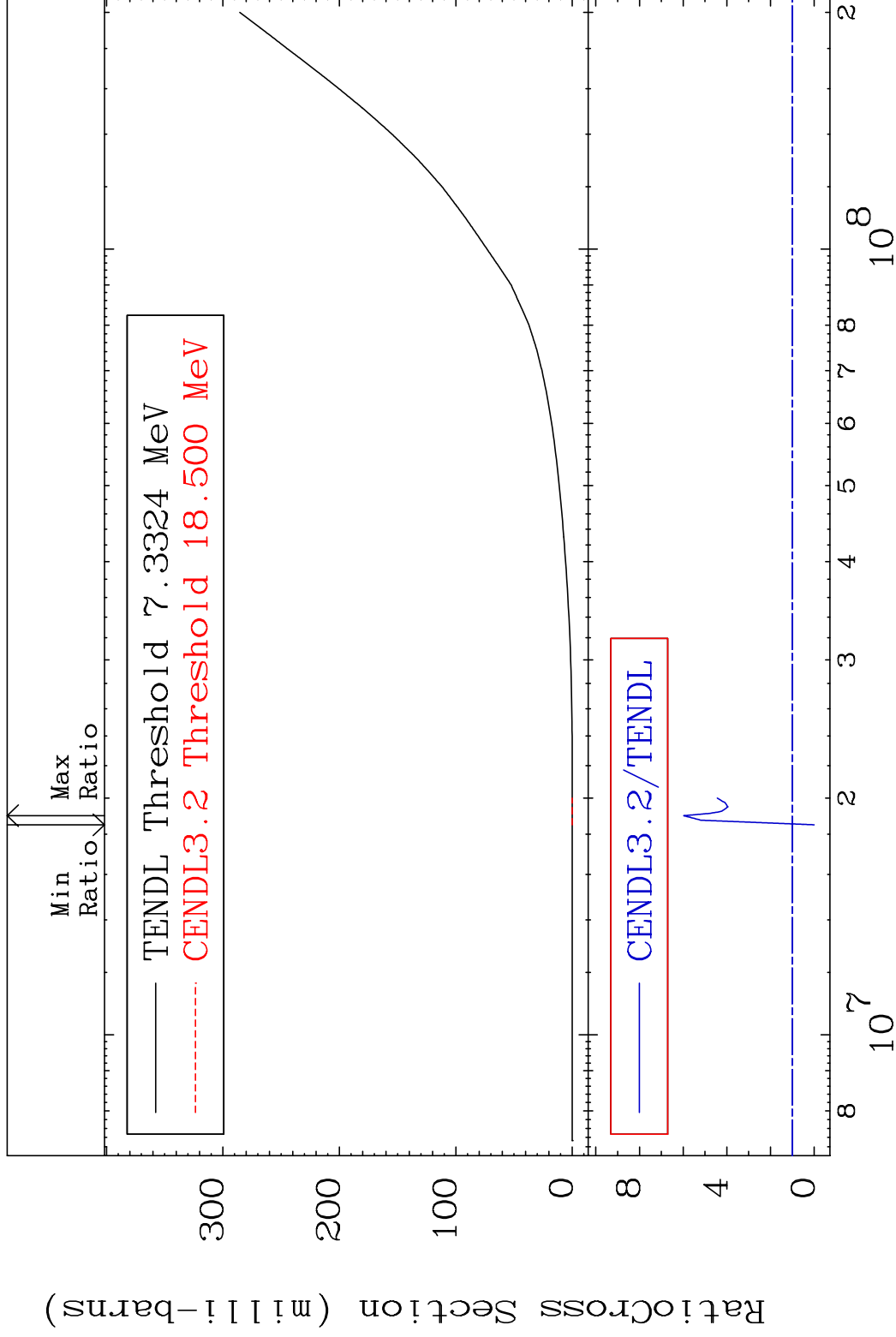


MAT 5440

He-3 Production

54-Xe-129

Cross Section -100.0 To 497.7 %



38

Incident Energy (eV)

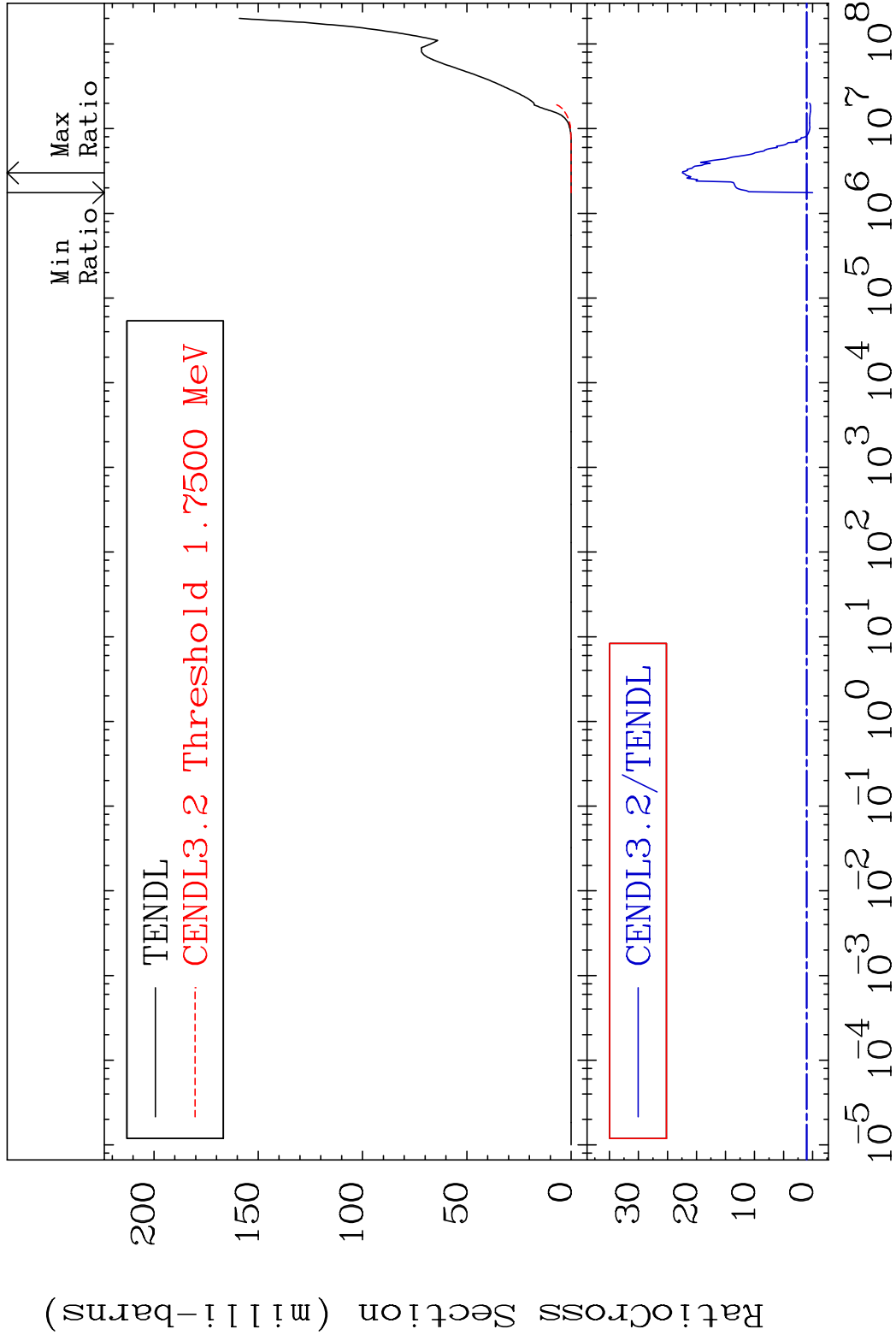
54-Xe-129

MAT 5440

He-4 Production

54-Xe-129

Cross Section -100.0 To 2143. %



39

Incident Energy (eV)

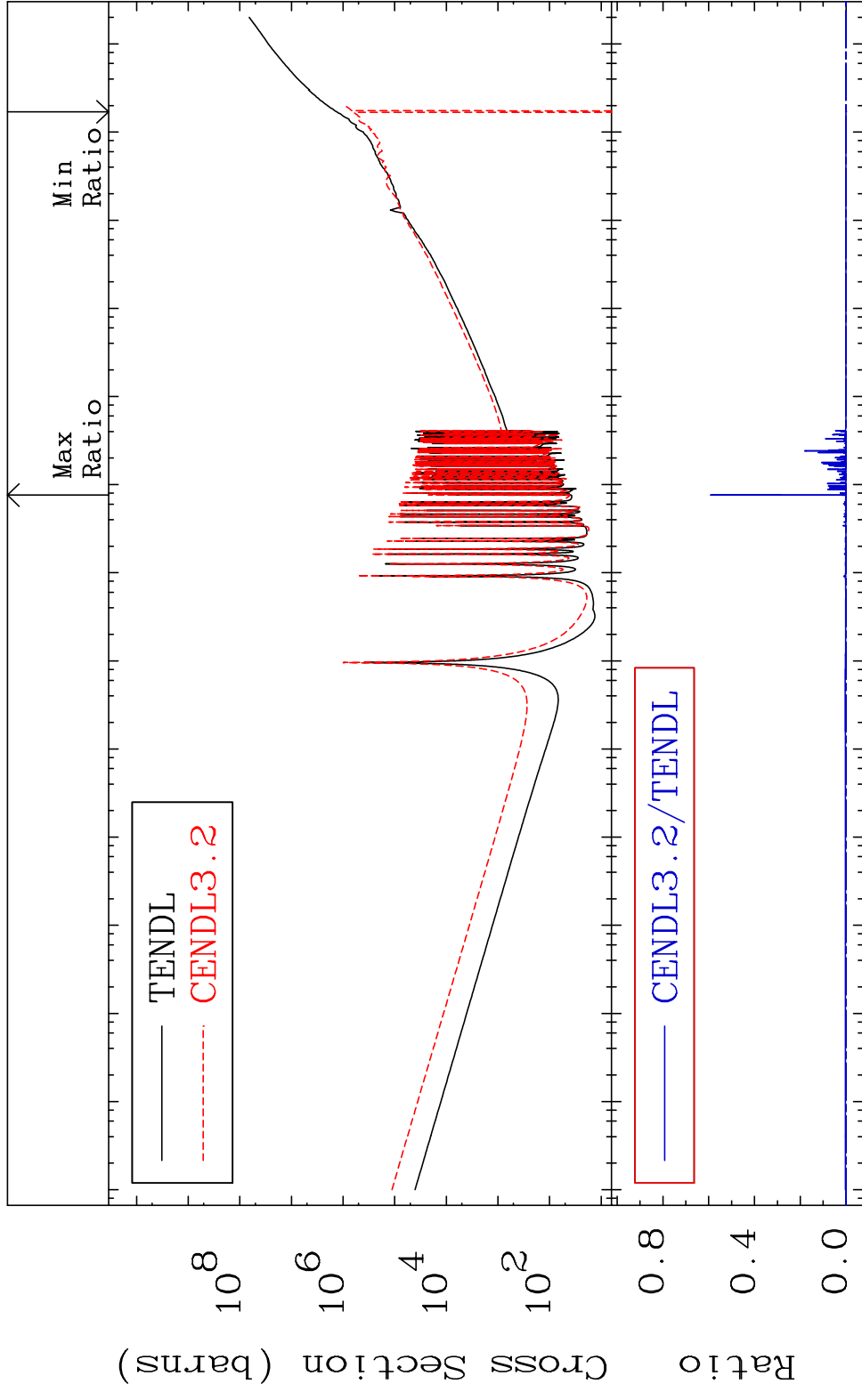
54-Xe-129

MAT 5440

Kerma total (eV-barns)

54-Xe-129

Cross Section -205.9 To 9999. %



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

40

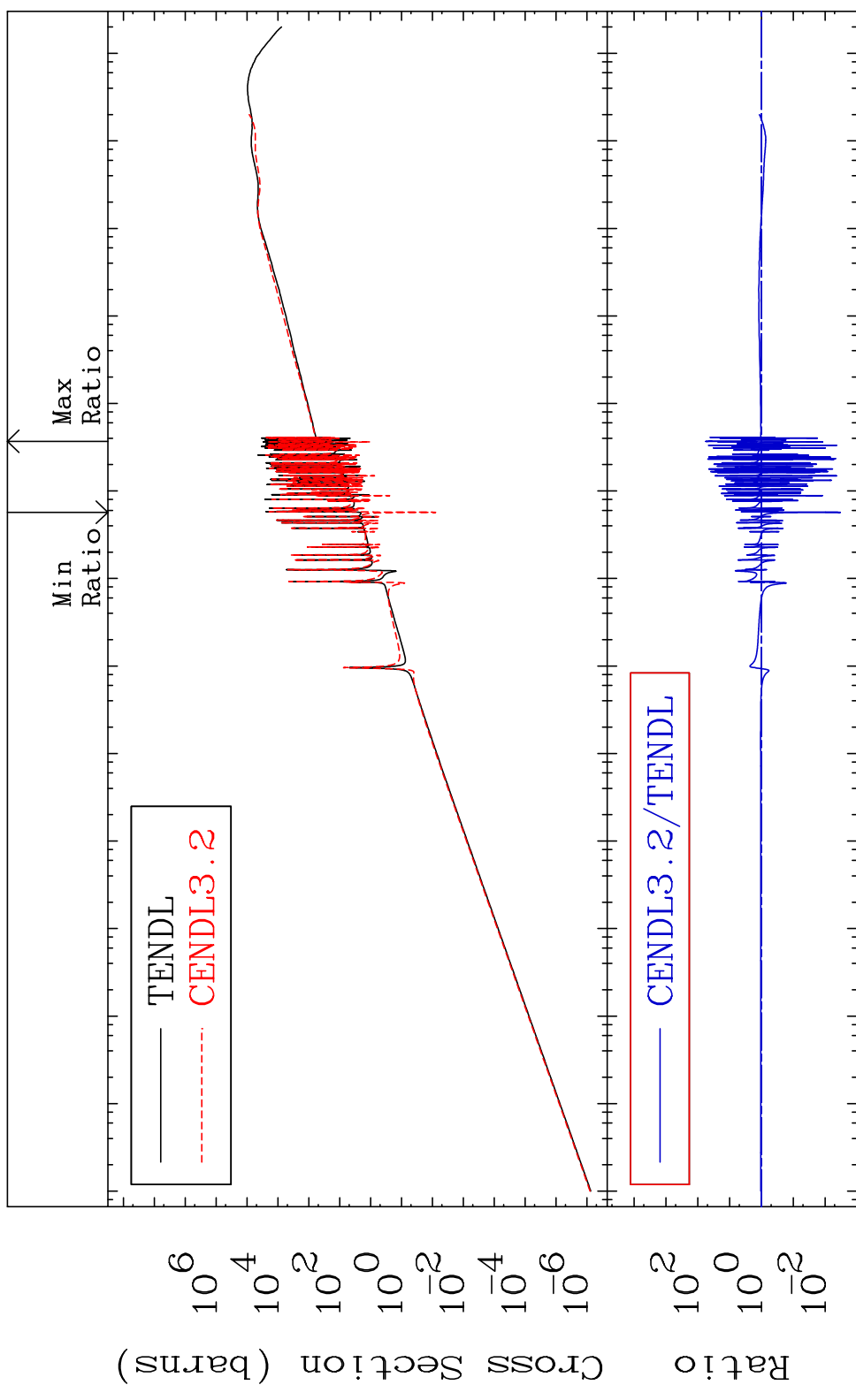
Incident Energy (eV)

54-Xe-129

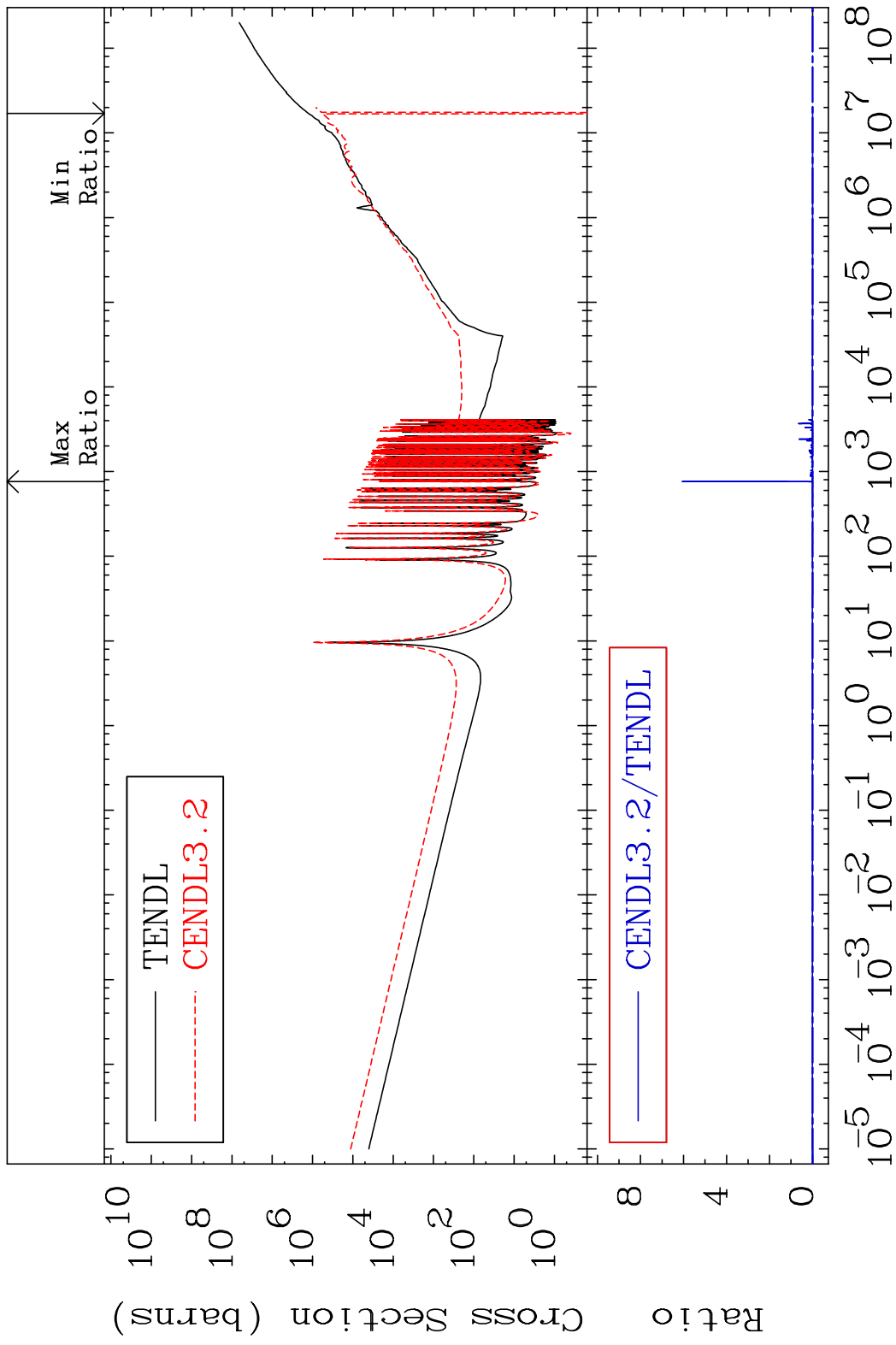
MAT 5440

Kerma elastic Cross Section -99.677 To 5506. %

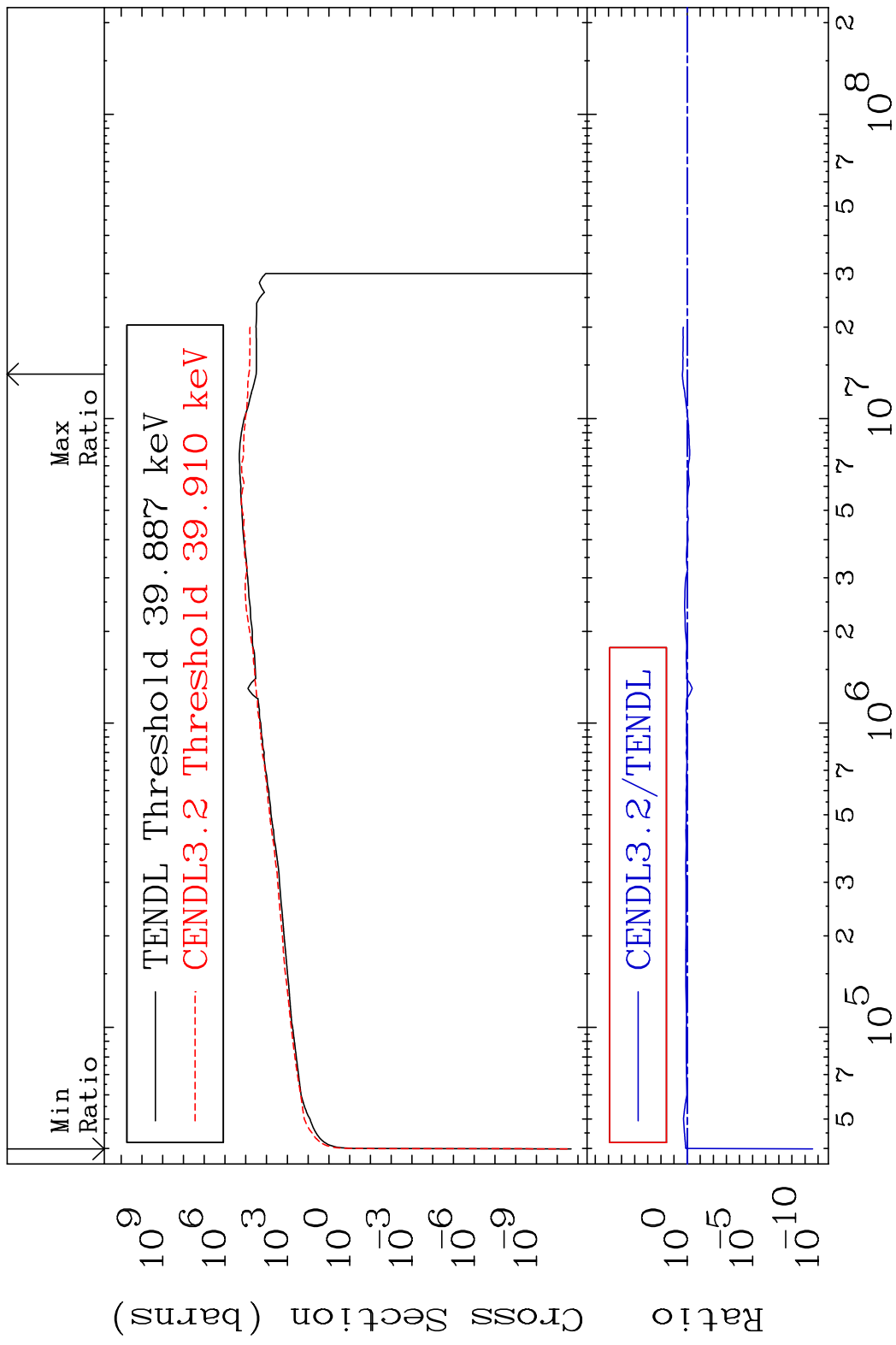
54-Xe-129



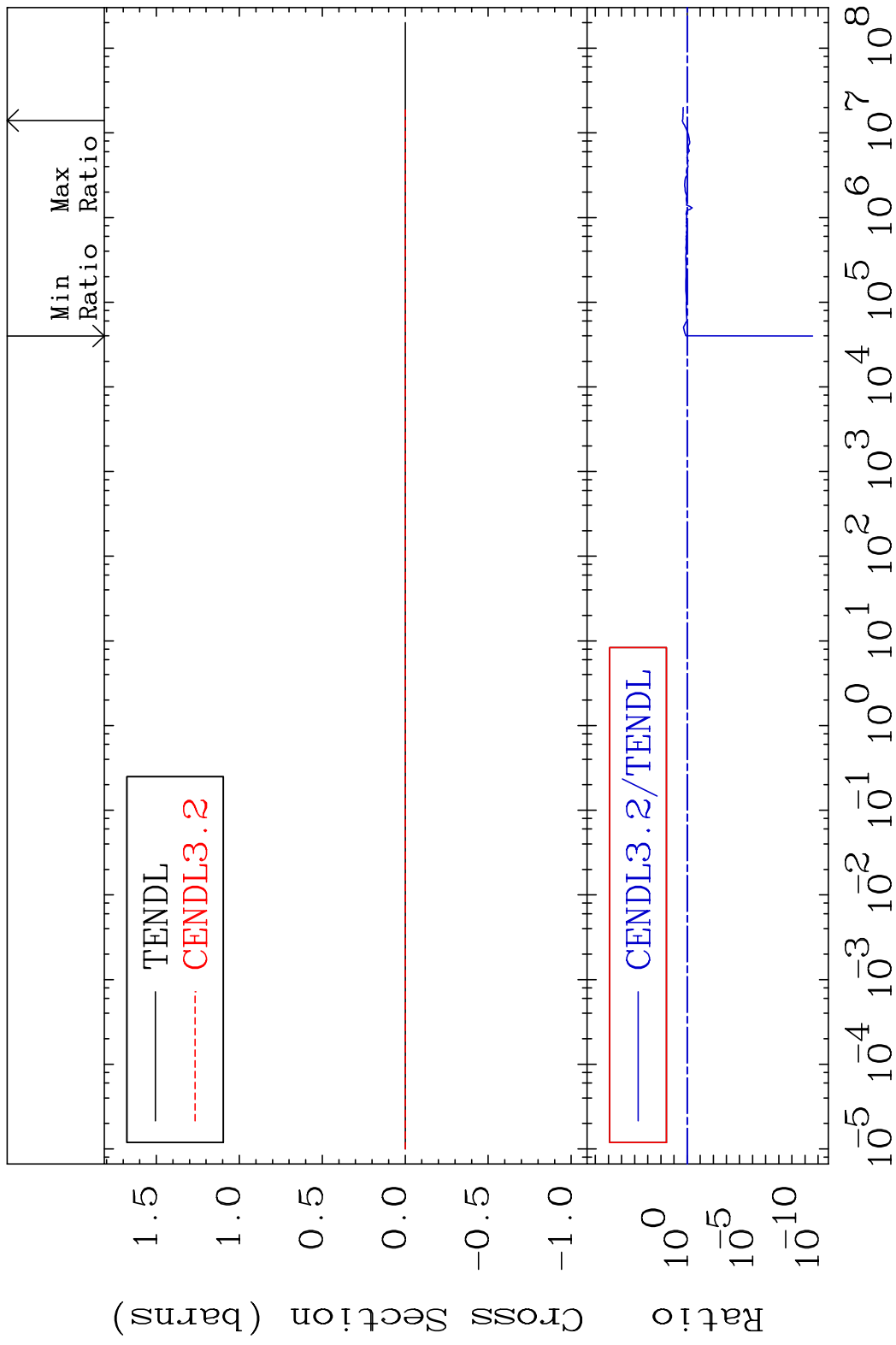
MAT 5440 Kerma non-elastic (all but mt2) 54-Xe-129
 Cross Section -216.9 To 9999. %



MAT 5440 Kerma inelastic (mt51-91) 54-Xe-129
 Cross Section -100.0 To 129.7 %

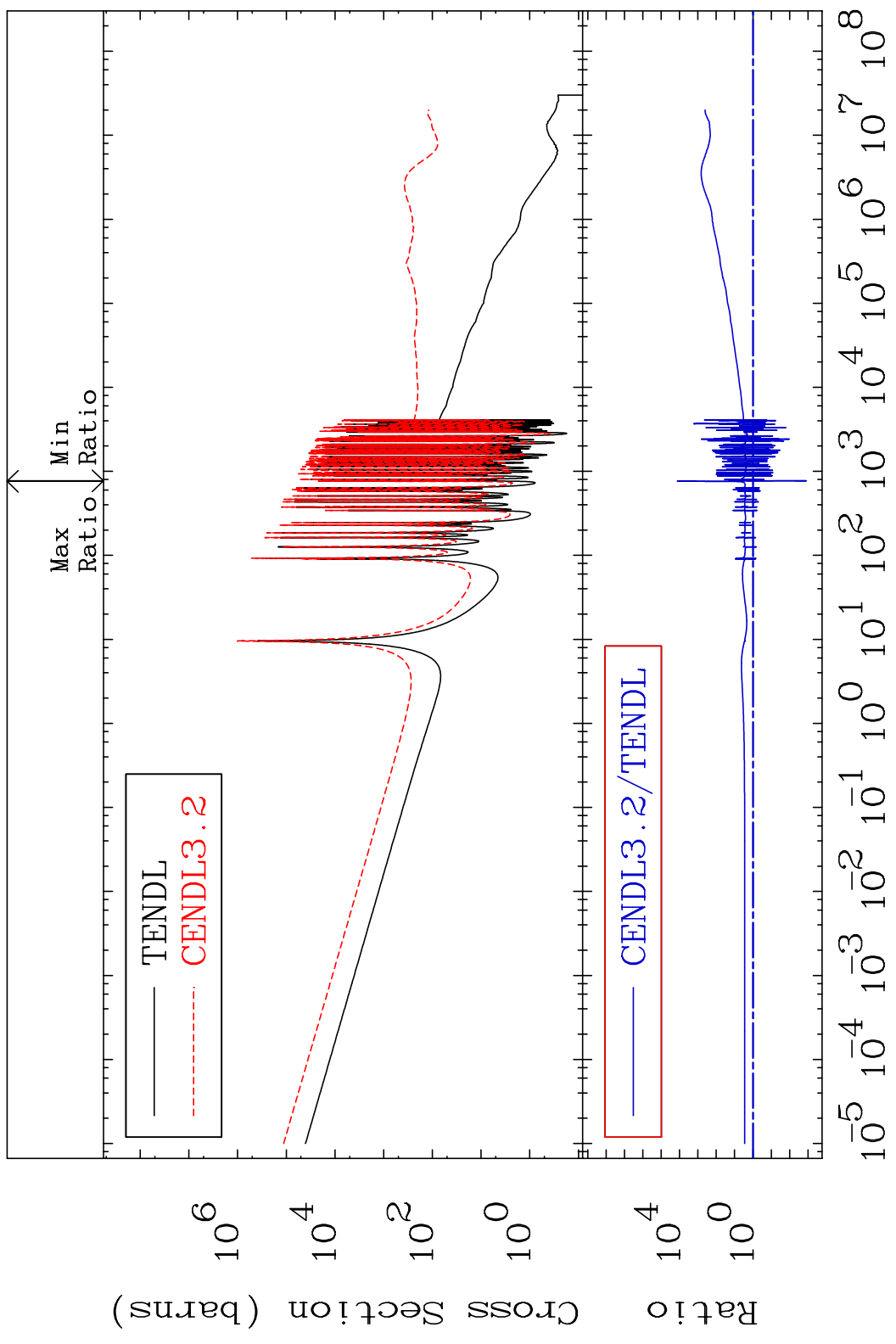


MAT 5440 Kerma fission (mt18 or mt19-20-21-38) 54-Xe-129
 Cross Section -100.0 To 129.7 %



MAT 5440

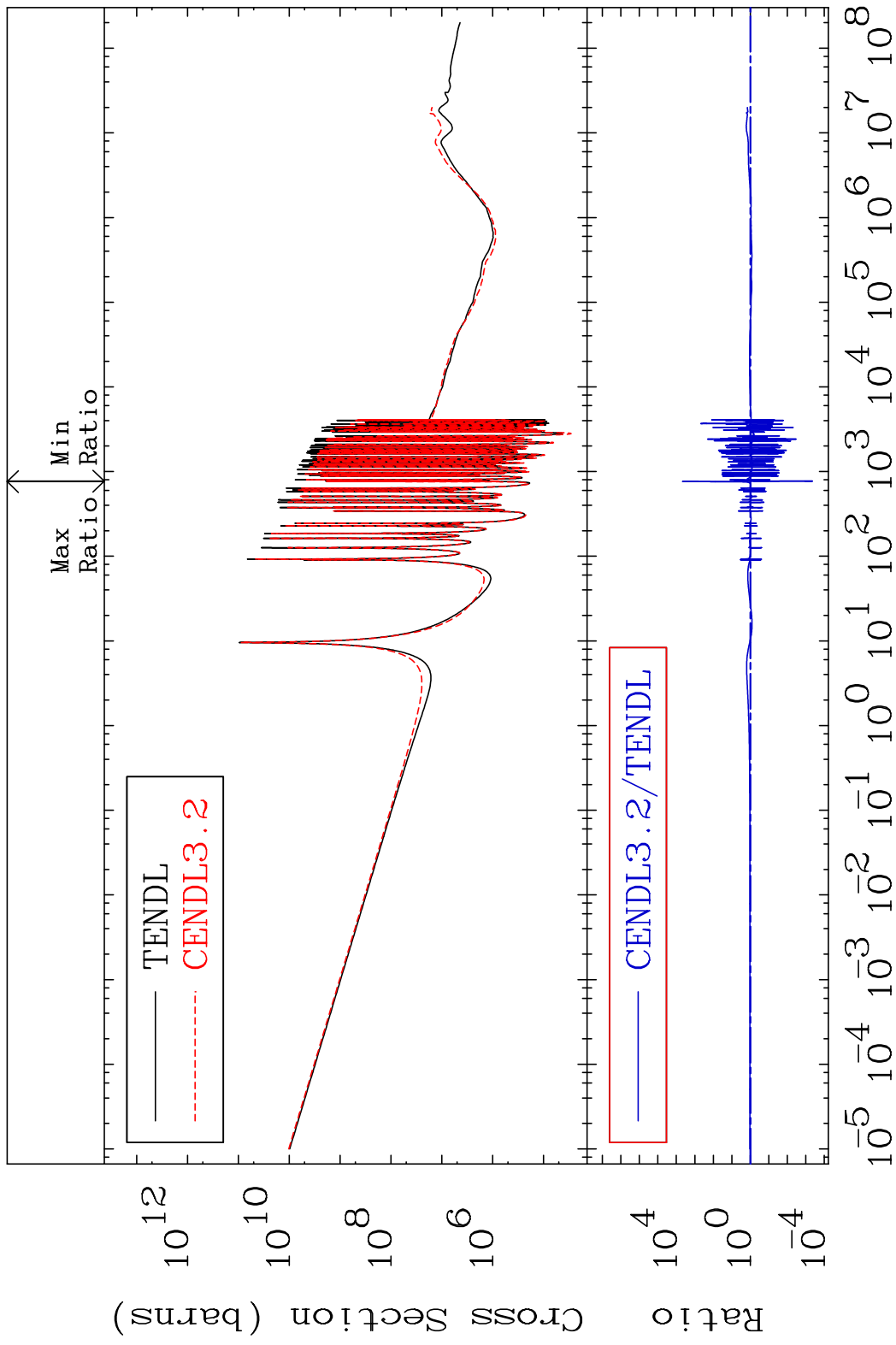
Kerma capture (mt102) 54-Xe-129
Cross Section -99.88 To 9999. %



45

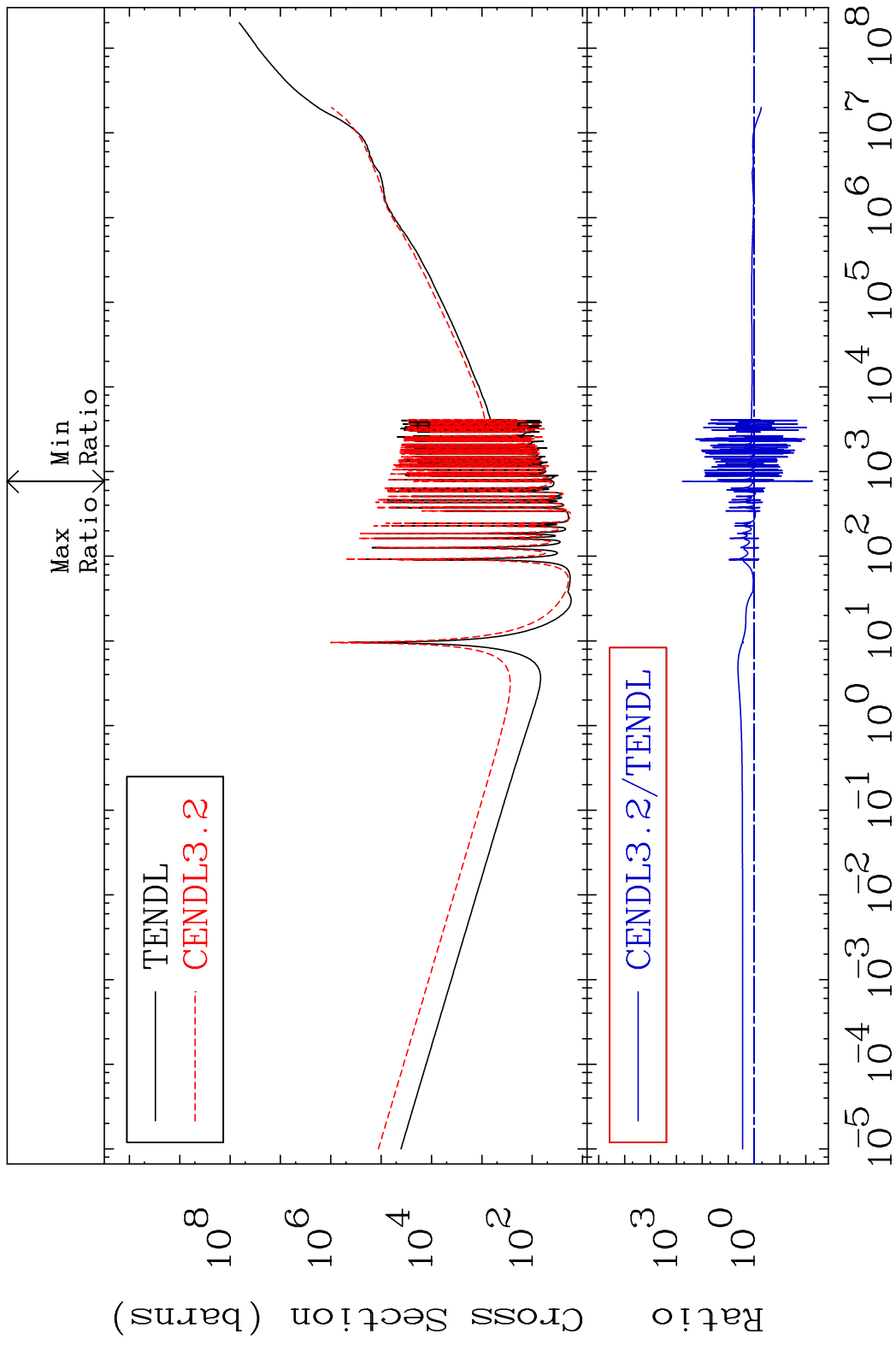
Incident Energy (eV) 54-Xe-129

MAT 5440 Total photon (eV-barns) 54-Xe-129
Cross Section -99.96 To 9999. %



46 Incident Energy (eV) 54-Xe-129

MAT 5440 Total kinematic kerma (high limit) 54-Xe-129
 Cross Section -99.45 To 9999. %

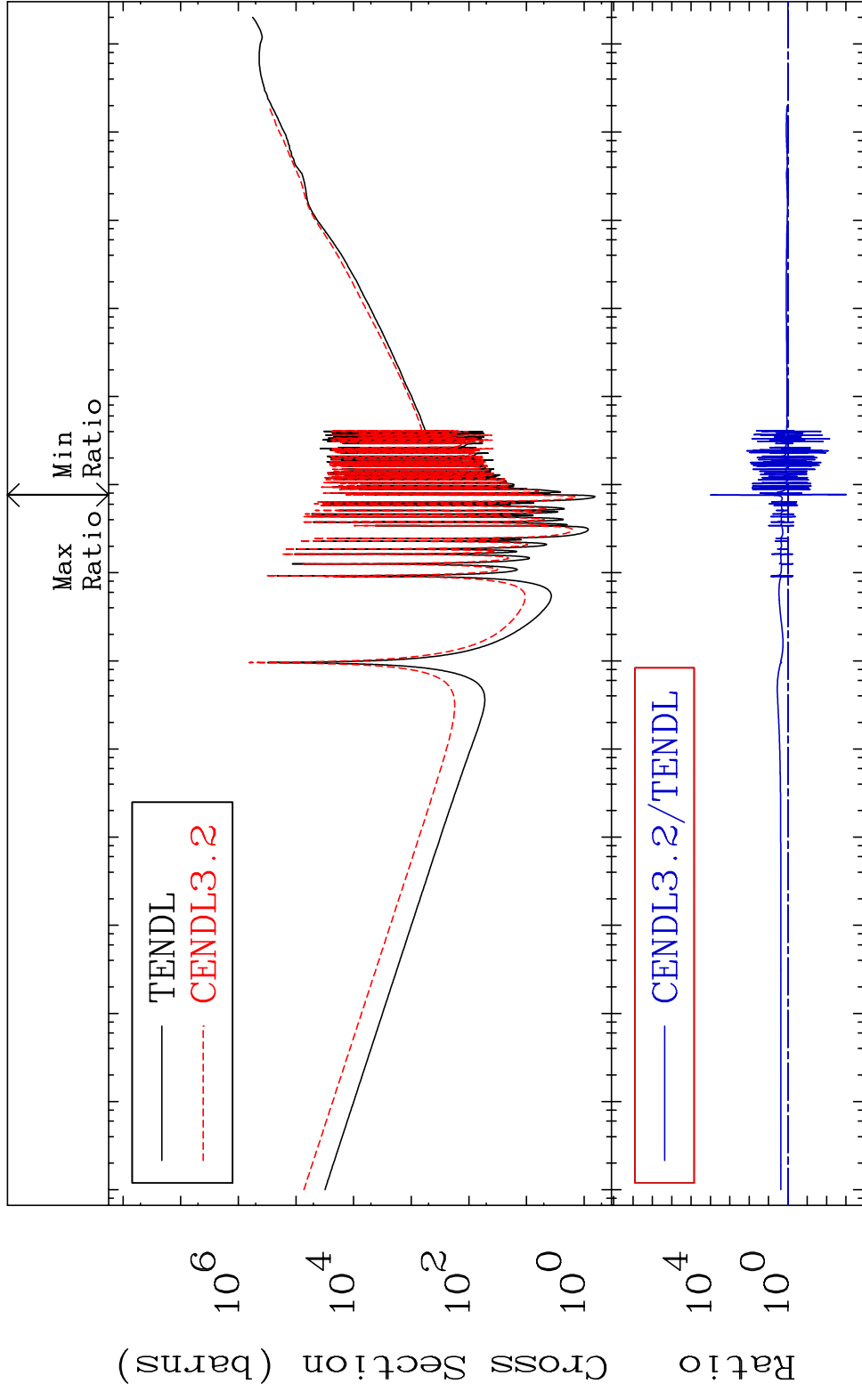


MAT 5440

Dpa total (eV-barns)

54-Xe-129

Cross Section -99.90 To 9999. %



48

Incident Energy (eV)

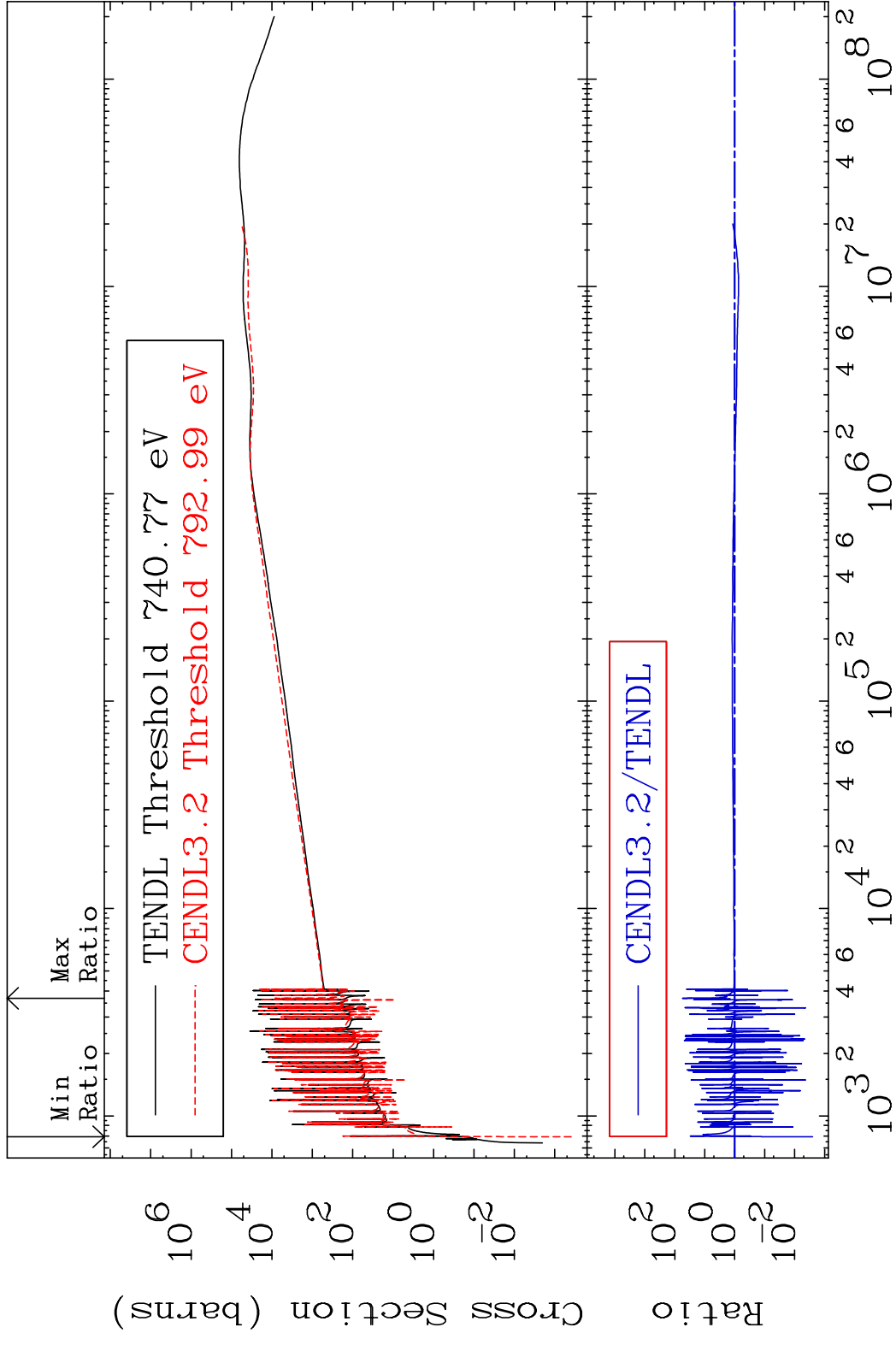
54-Xe-129

MAT 5440

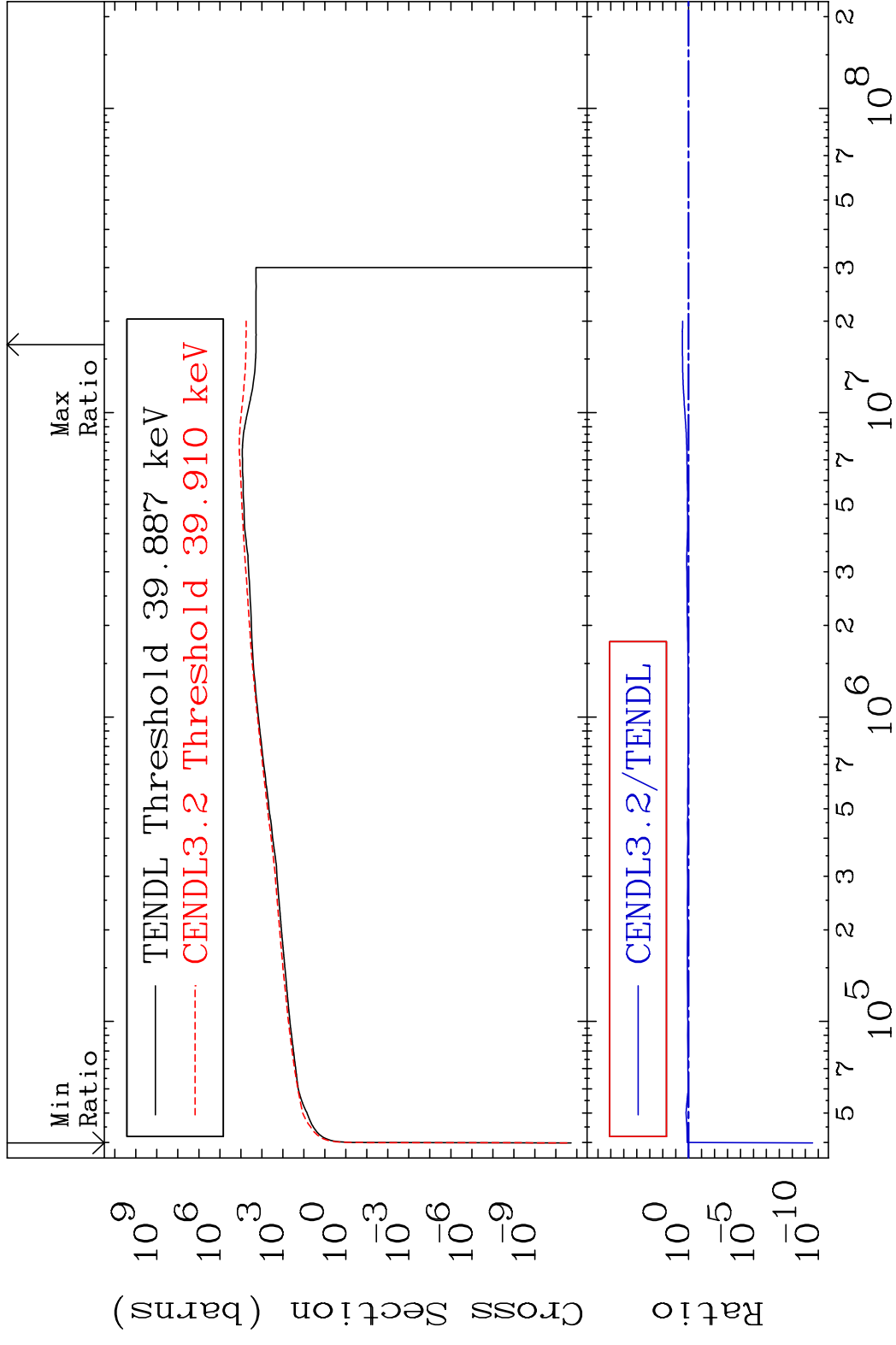
Dpa elastic (mt2)

54-Xe-129

Cross Section -99.75 To 5492. %



MAT 5440 Dpa inelastic (mt51-91) 54-Xe-129
 Cross Section -100.0 To 205.1 %



MAT 5440 Dpa disappearance (mt102 -120) 54-Xe-129
 Cross Section -99.90 To 9999. %

