

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

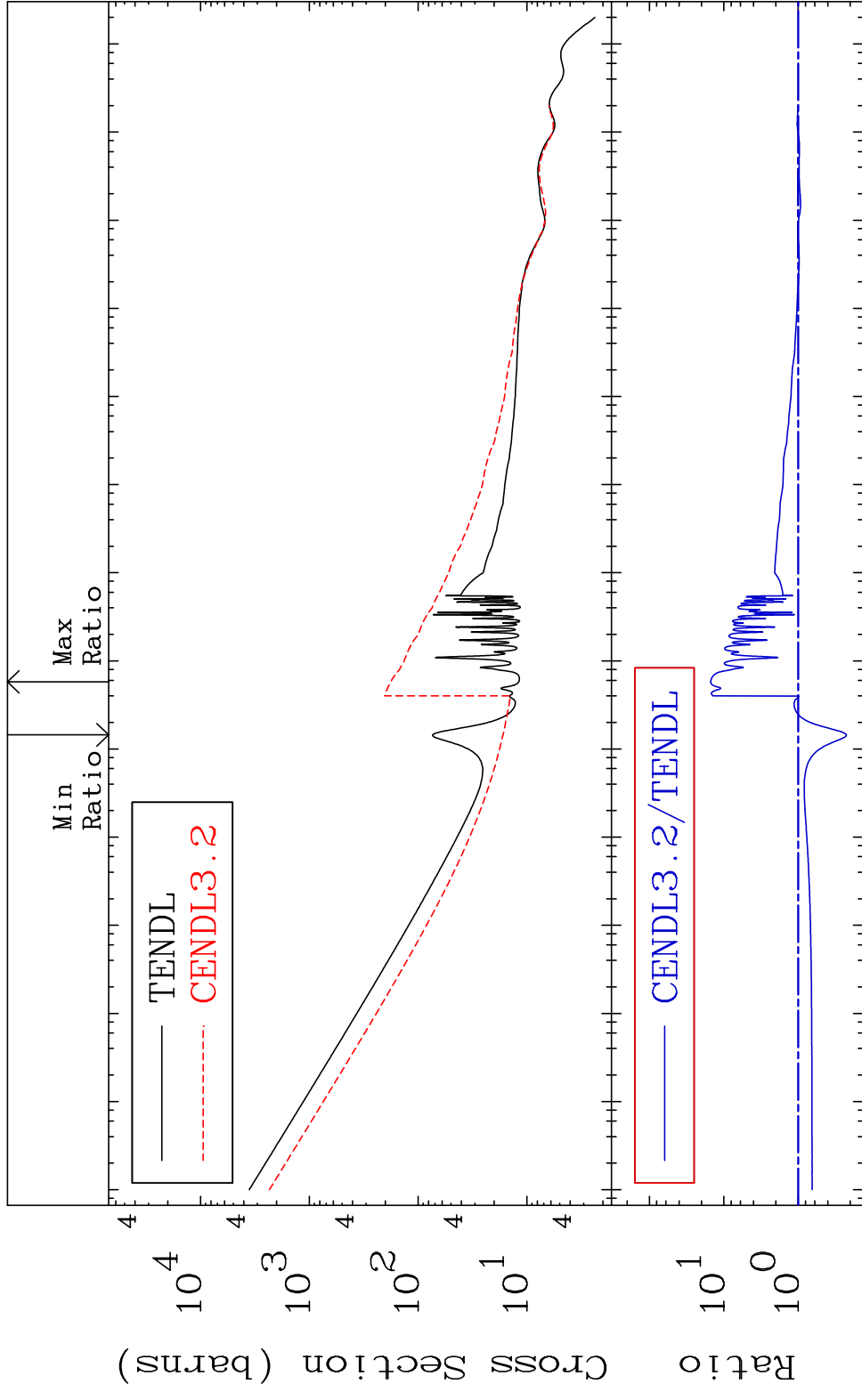
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 9352

Total
Cross Section -77.39 To 1402. %

93-Np-239



1

Incident Energy (eV)

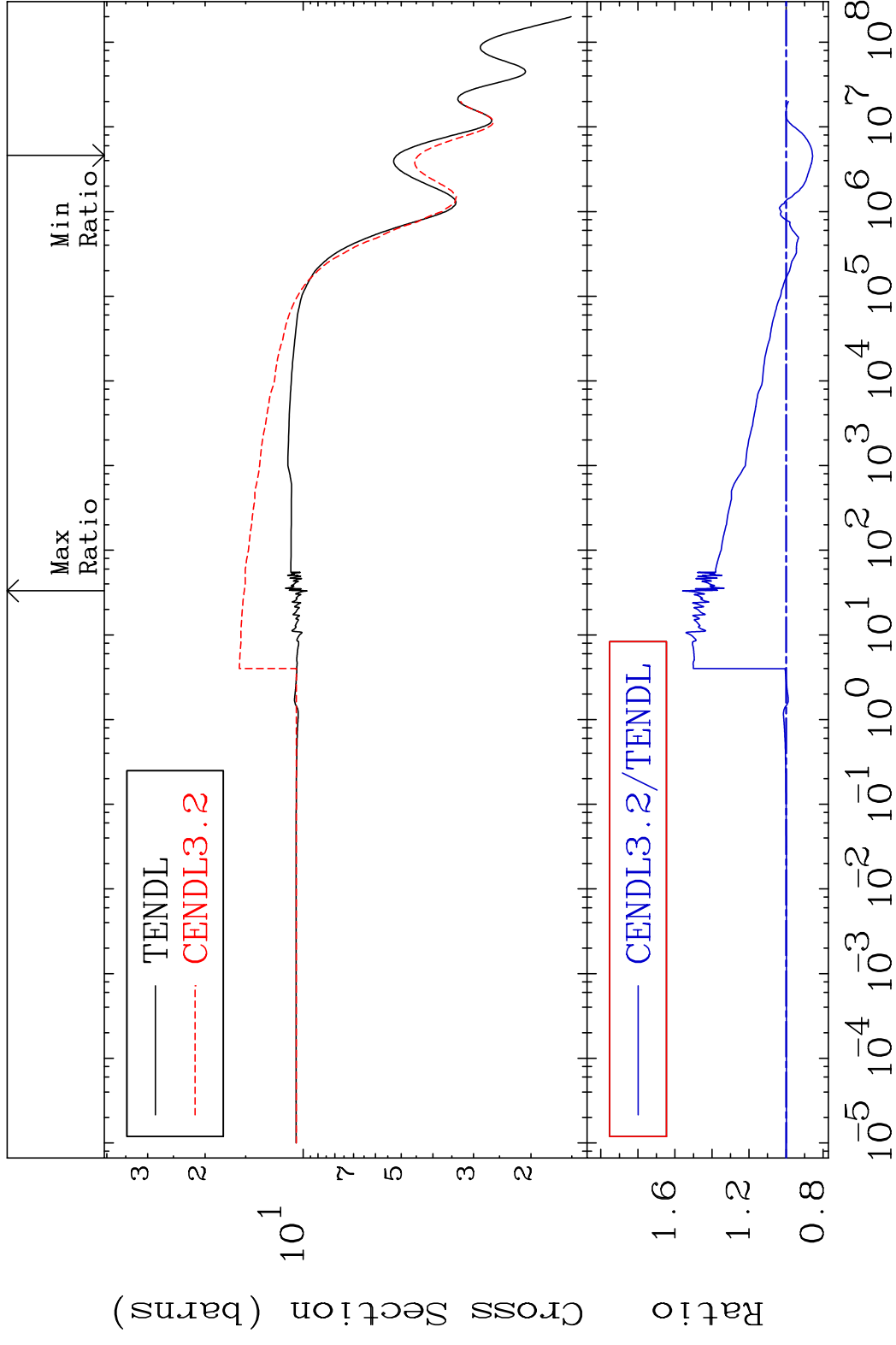
93-Np-239

MAT 9352

Elastic

93-Np-239

Cross Section -14.30 To 55.99 %



2

Incident Energy (eV)

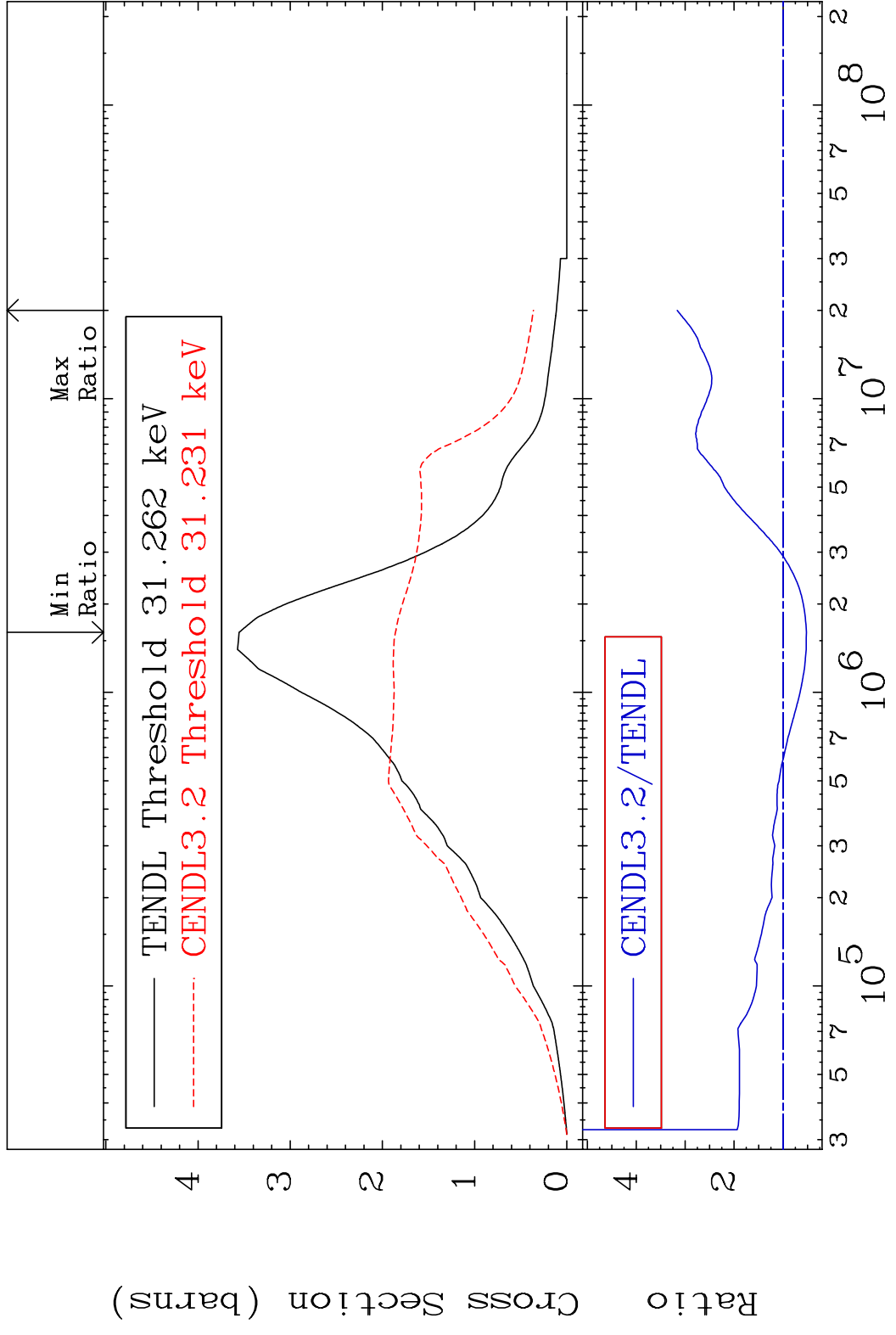
93-Np-239

MAT 9352

Inelastic

93-Np-239

Cross Section -47.72 To 216.4 %



3

Incident Energy (eV)

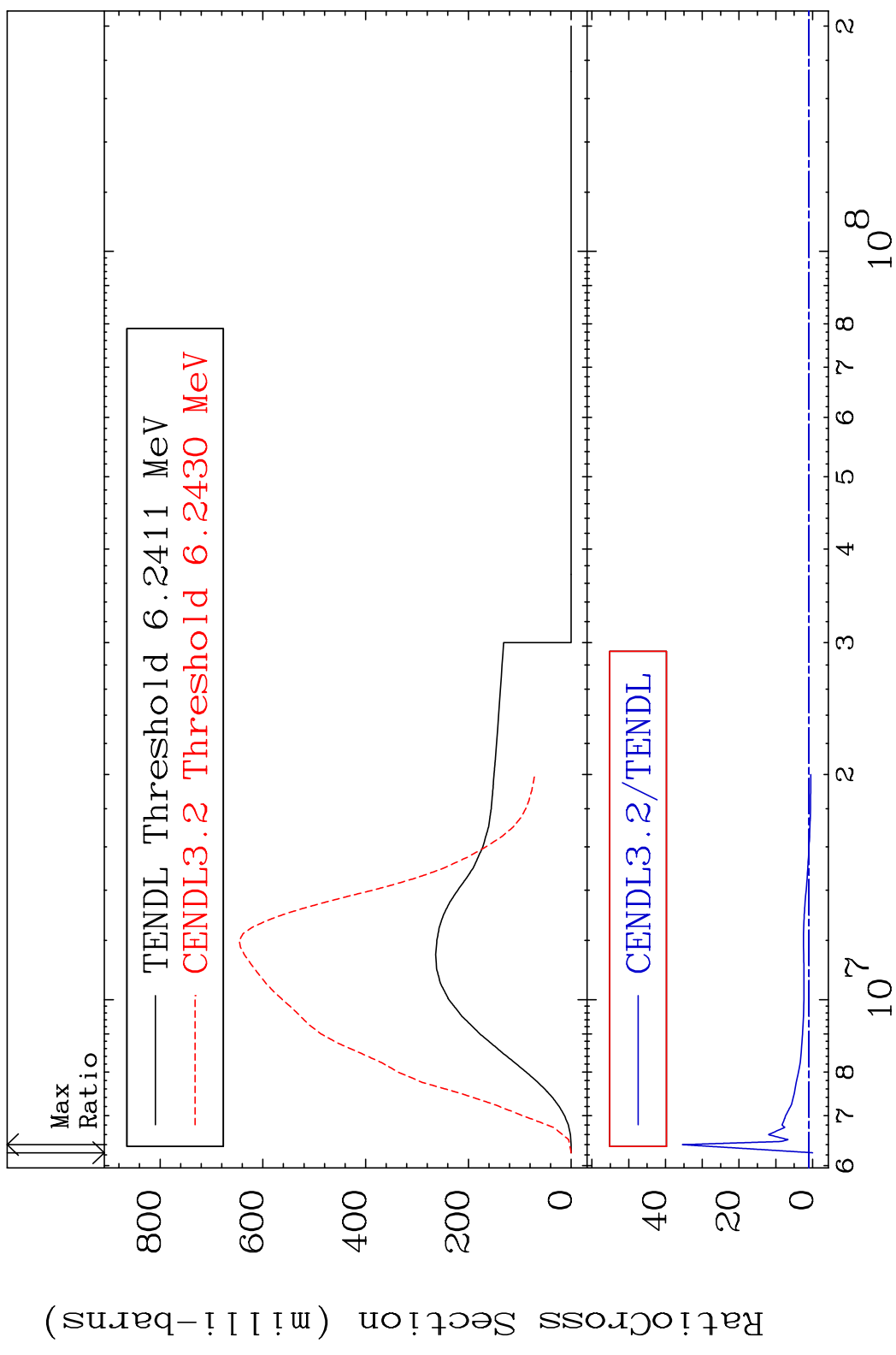
93-Np-239

MAT 9352

(n,2n)

93-Np-239

Cross Section -100.0 To 3441. %



4

Incident Energy (eV)

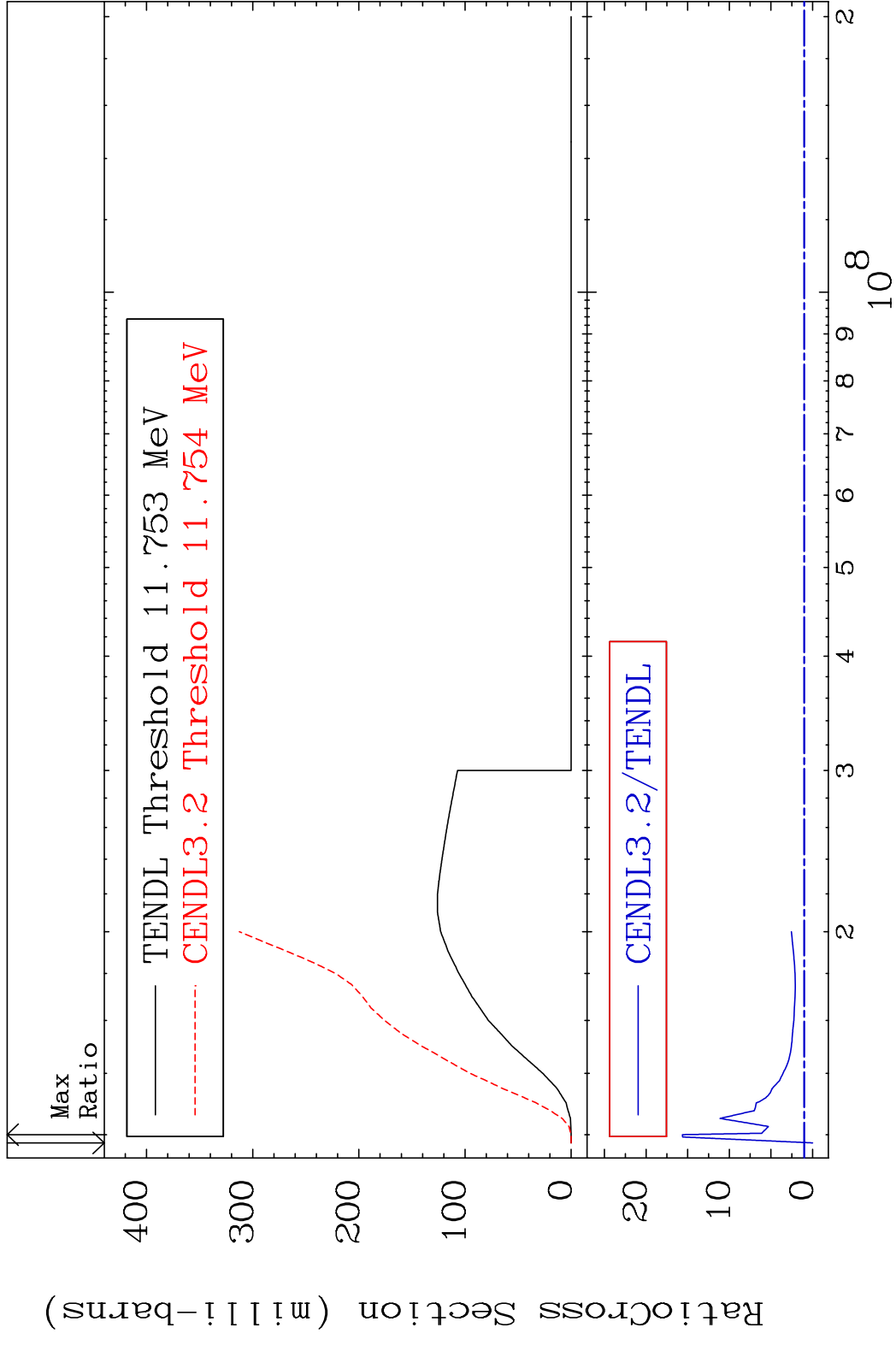
93-Np-239

MAT 9352

(n,3n)

93-Np-239

Cross Section -100.0 To 1465. %



5

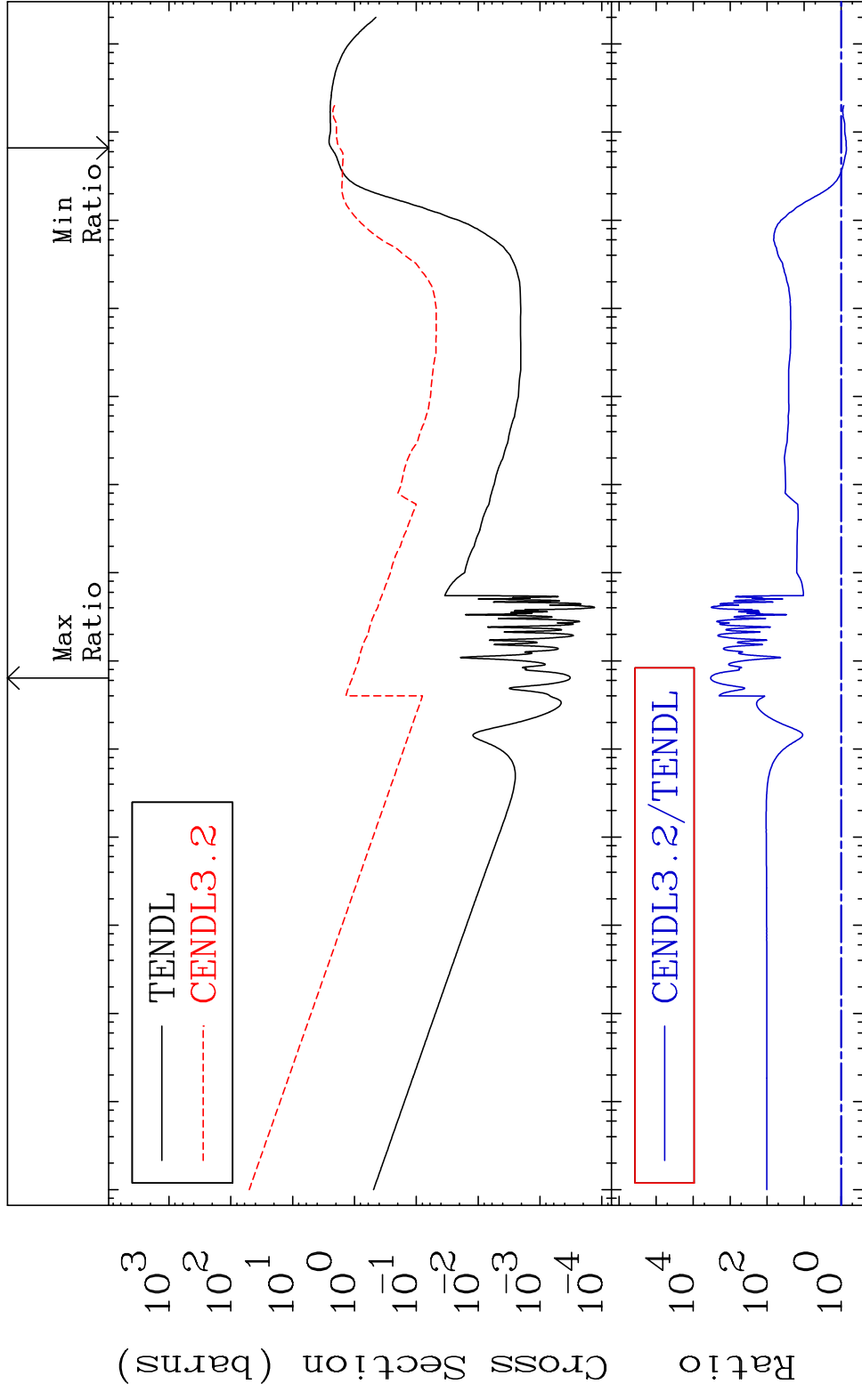
Incident Energy (eV)

93-Np-239

MAT 9352

Fission
Cross Section -27.49 To 9999. %

93-Np-239



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

6

Incident Energy (eV)

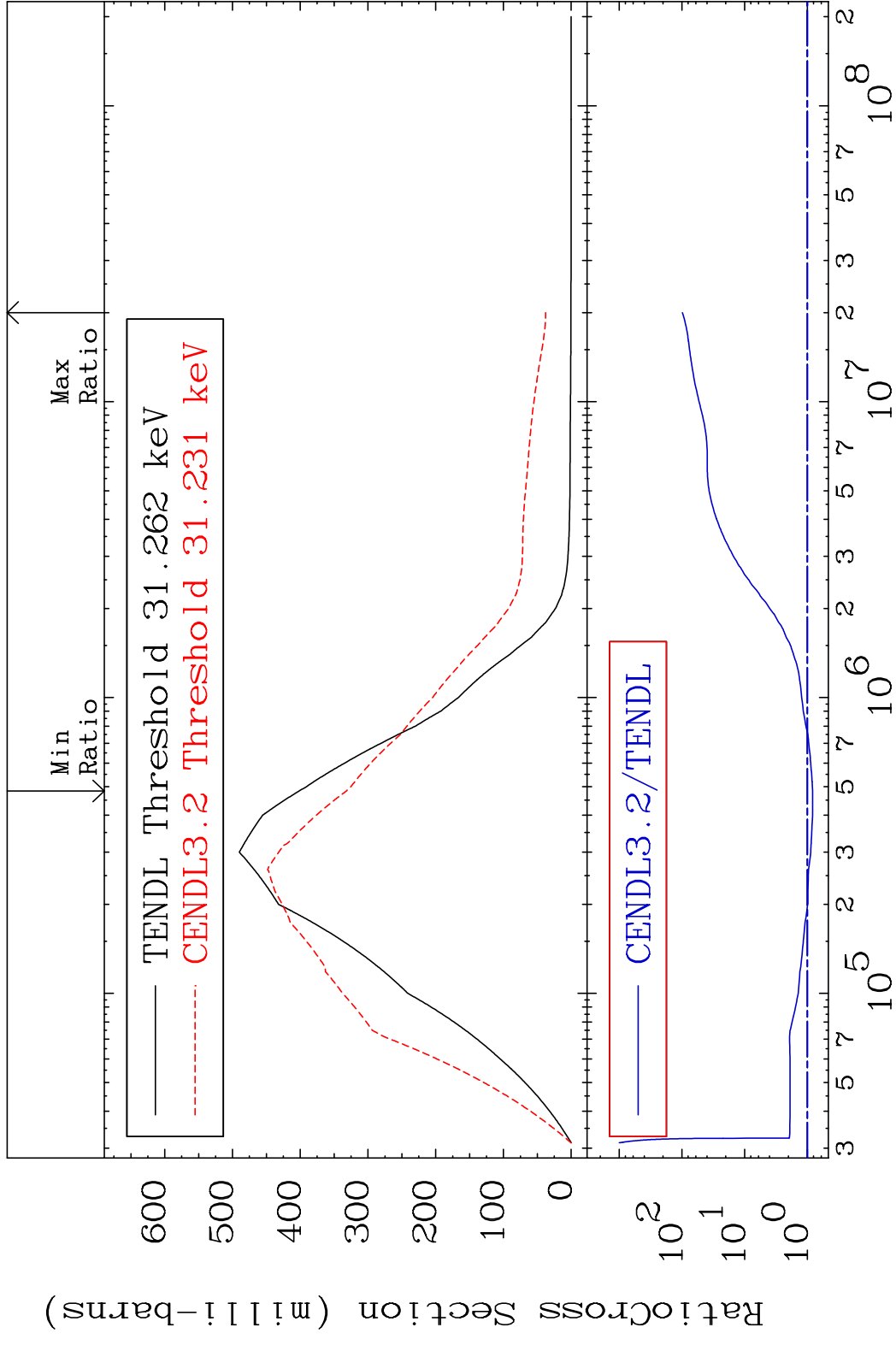
93-Np-239

MAT 9352

MT= 51 (n, n') Level

93-Np-239

Cross Section -17.39 To 9759. %

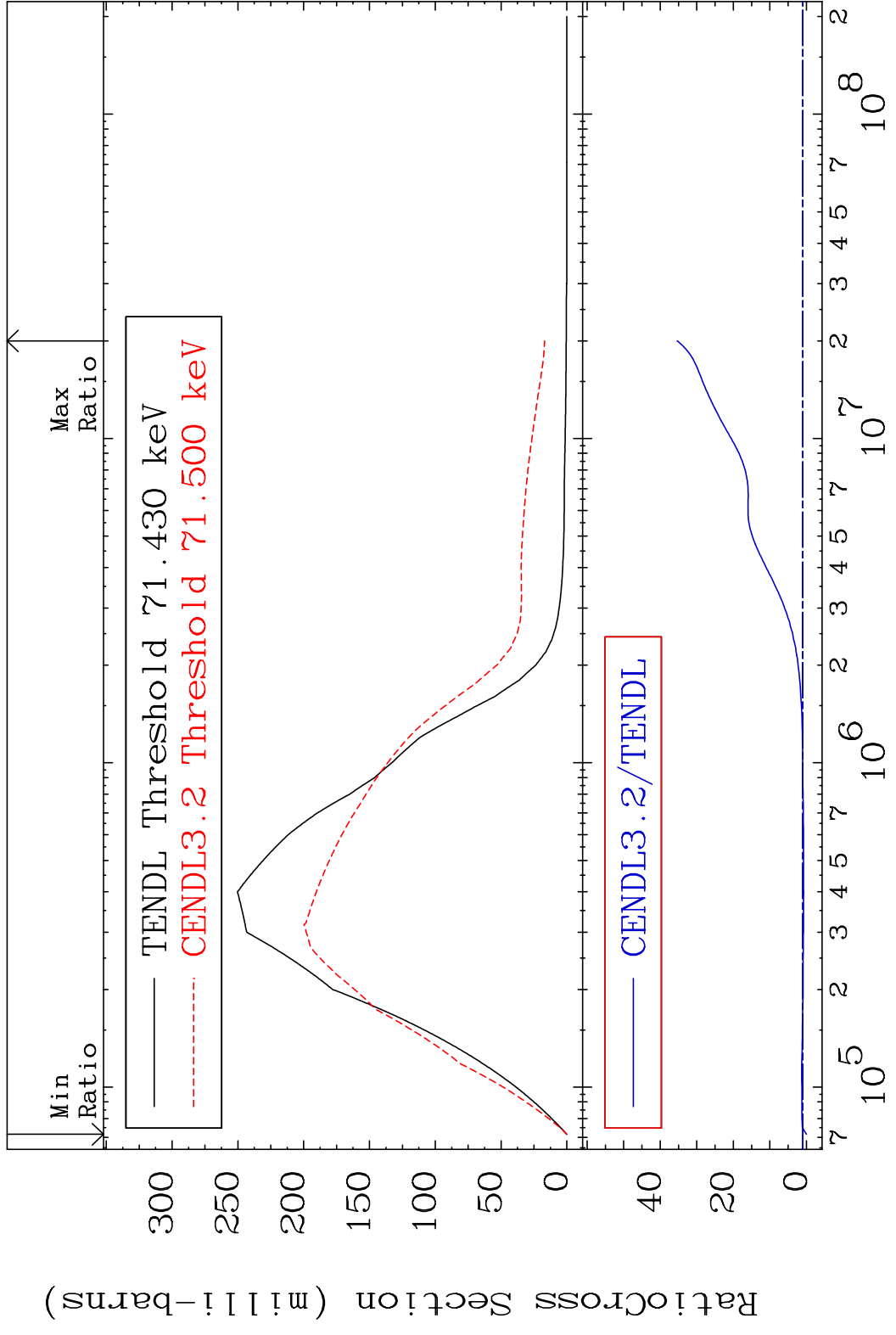


7

Incident Energy (eV)

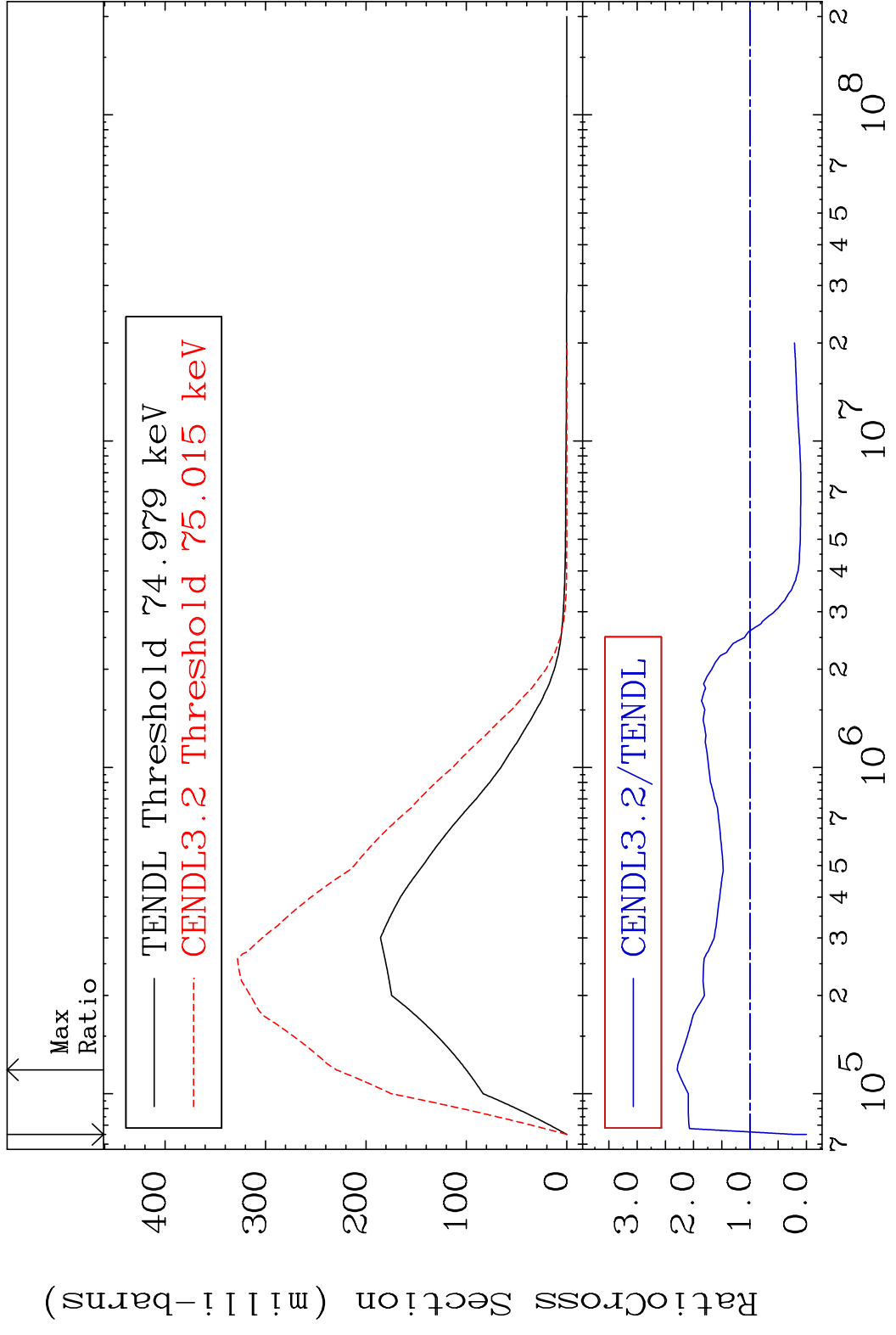
93-Np-239

MAT 9352 MT= 52 (n, n') Level 93-Np-239
 Cross Section -100.0 To 3436. %

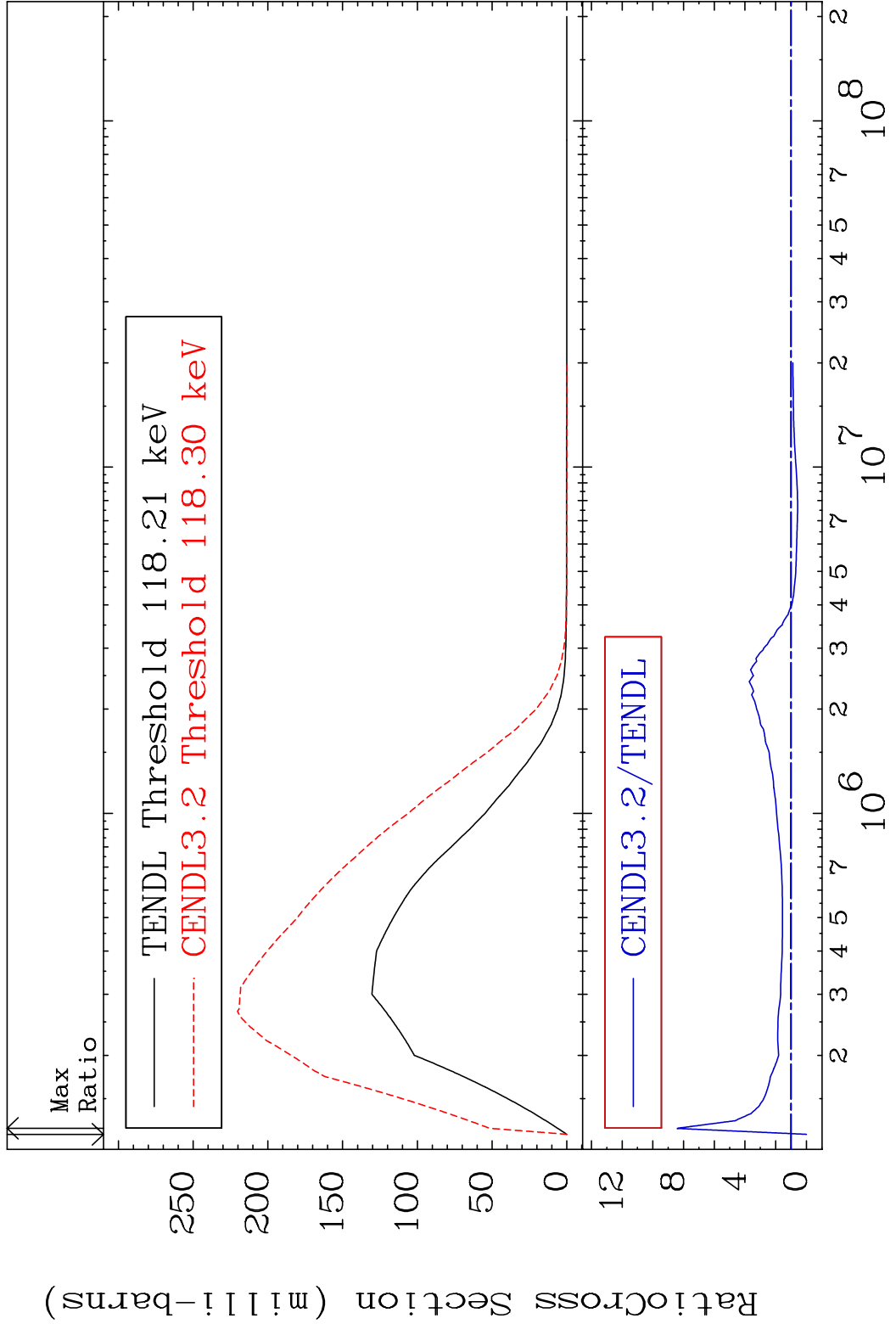


8 8 Incident Energy (eV) 93-Np-239

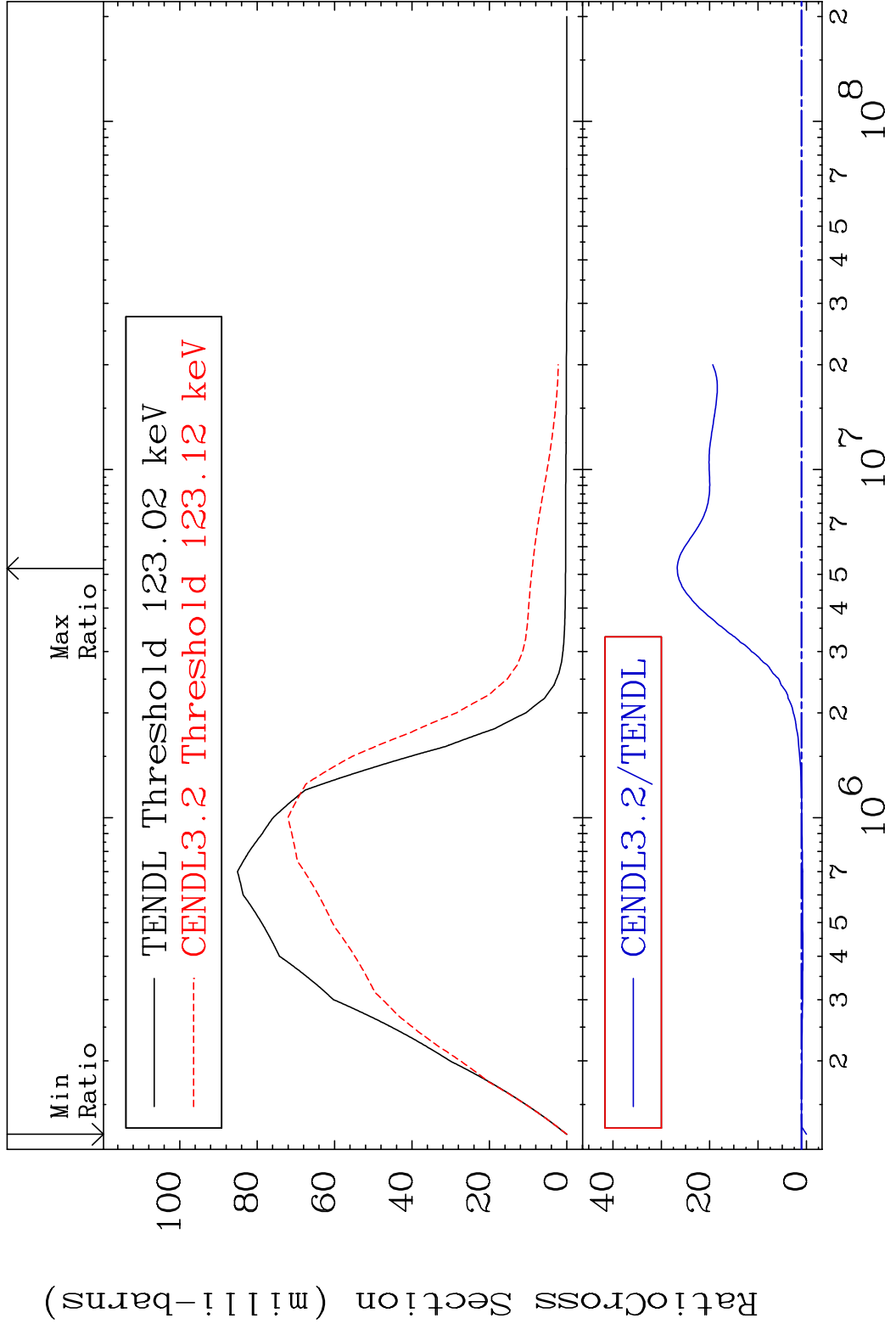
MAT 9352 MT= 53 (n, n') Level 93-Np-239
 Cross Section -100.0 To 129.0 %



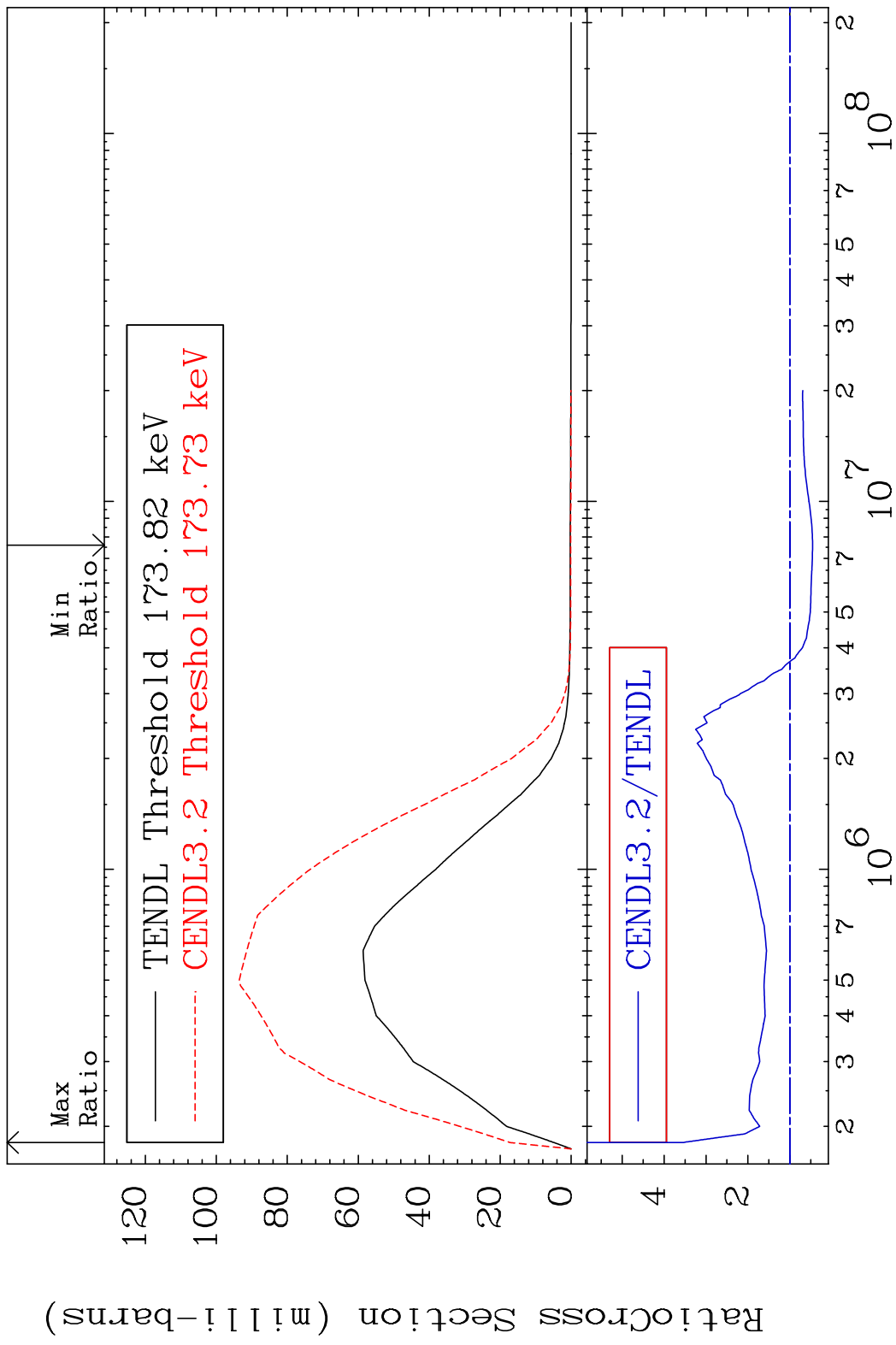
MAT 9352 MT= 54 (n,n') Level 93-Np-239
 Cross Section -100.0 To 741.5 %



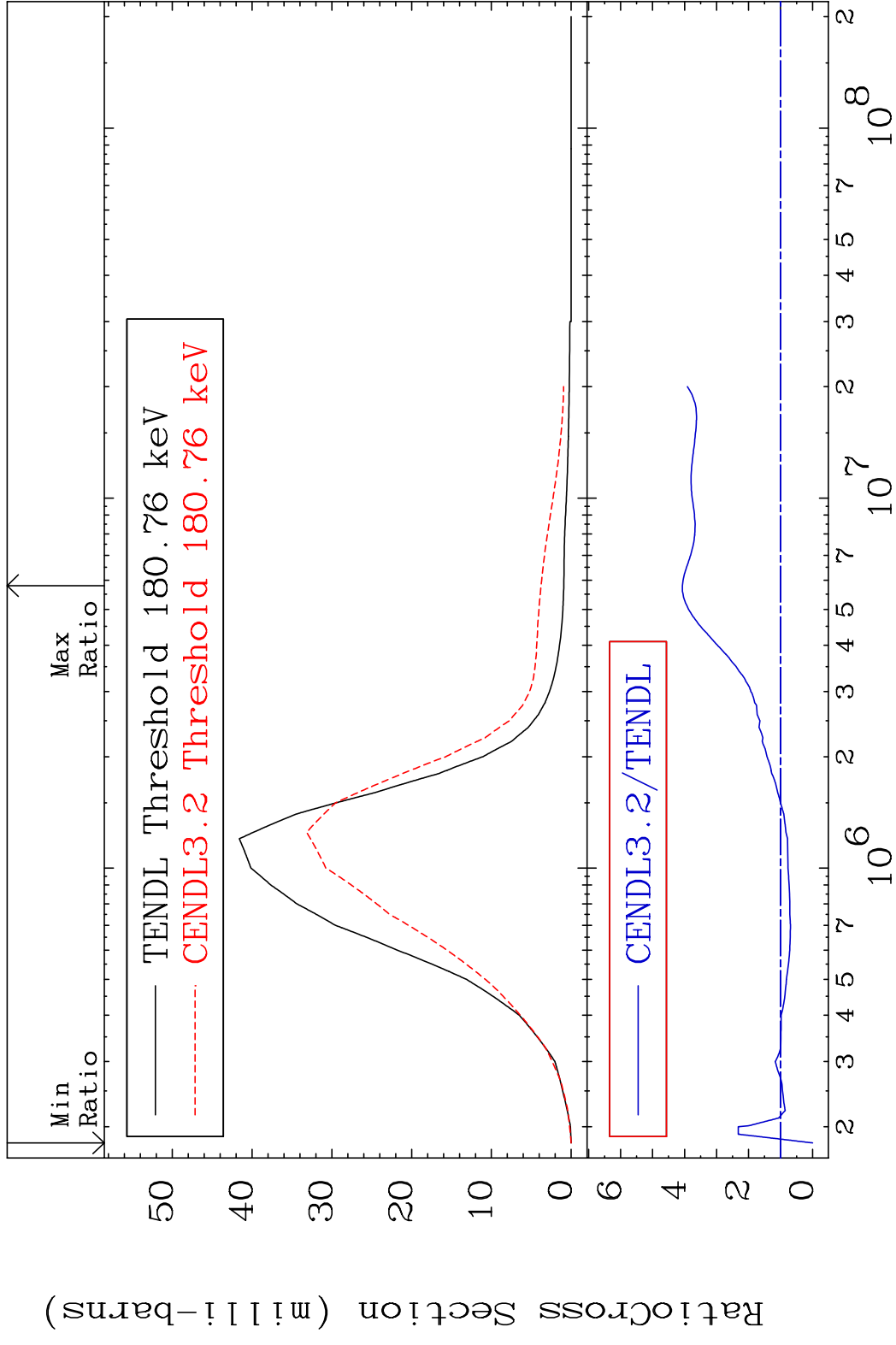
MAT 9352 MT= 55 (n, n') Level 93-Np-239
 Cross Section -100.0 To 2572. %



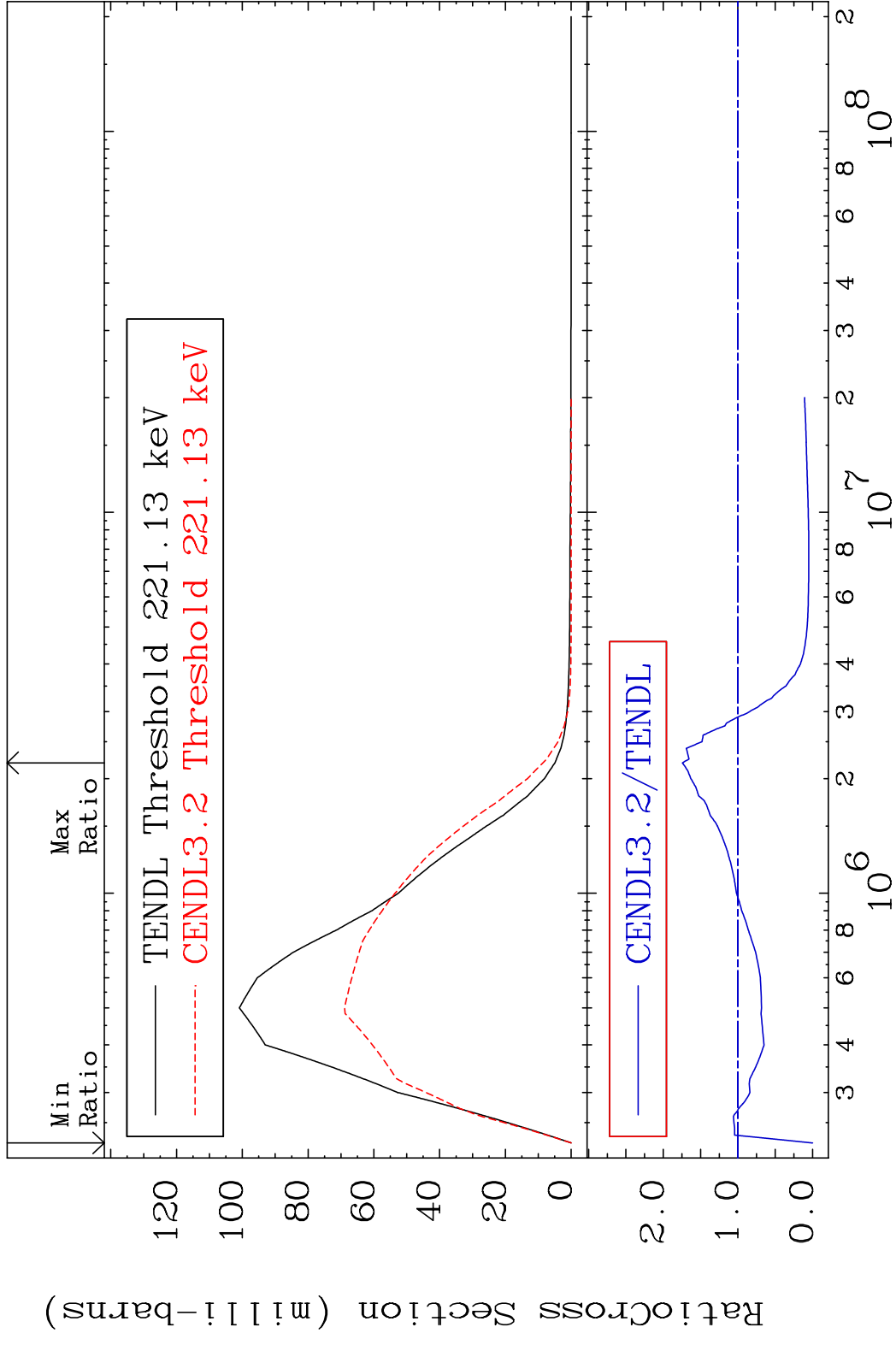
MAT 9352 MT= 56 (n, n') Level 93-Np-239
 Cross Section -54.01 To 256.4 %



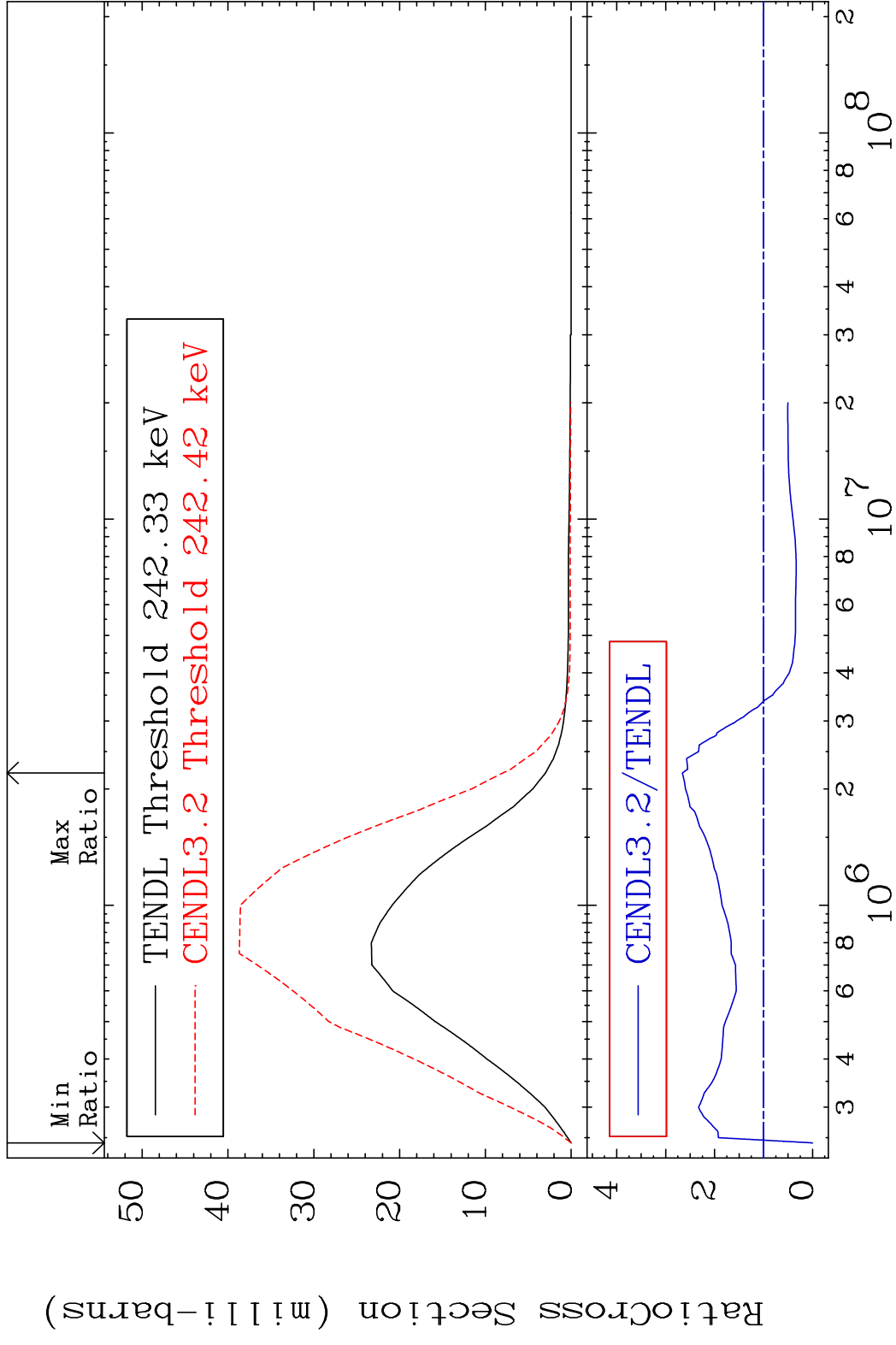
MAT 9352 MT= 57 (n, n') Level 93-Np-239
 Cross Section -100.0 To 306.9 %



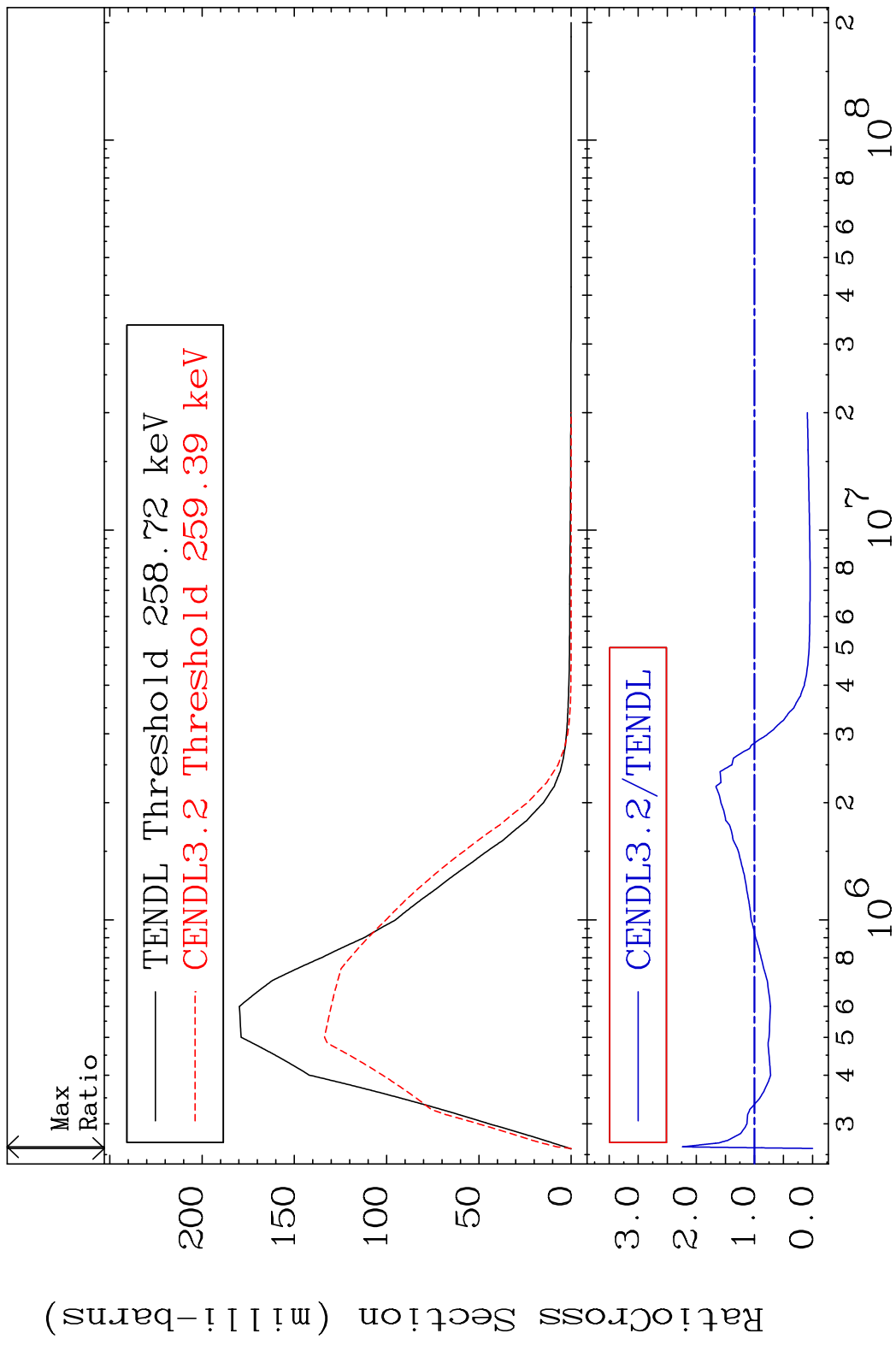
MAT 9352 MT= 58 (n, n') Level 93-Np-239
 Cross Section -100.0 To 74.40 %



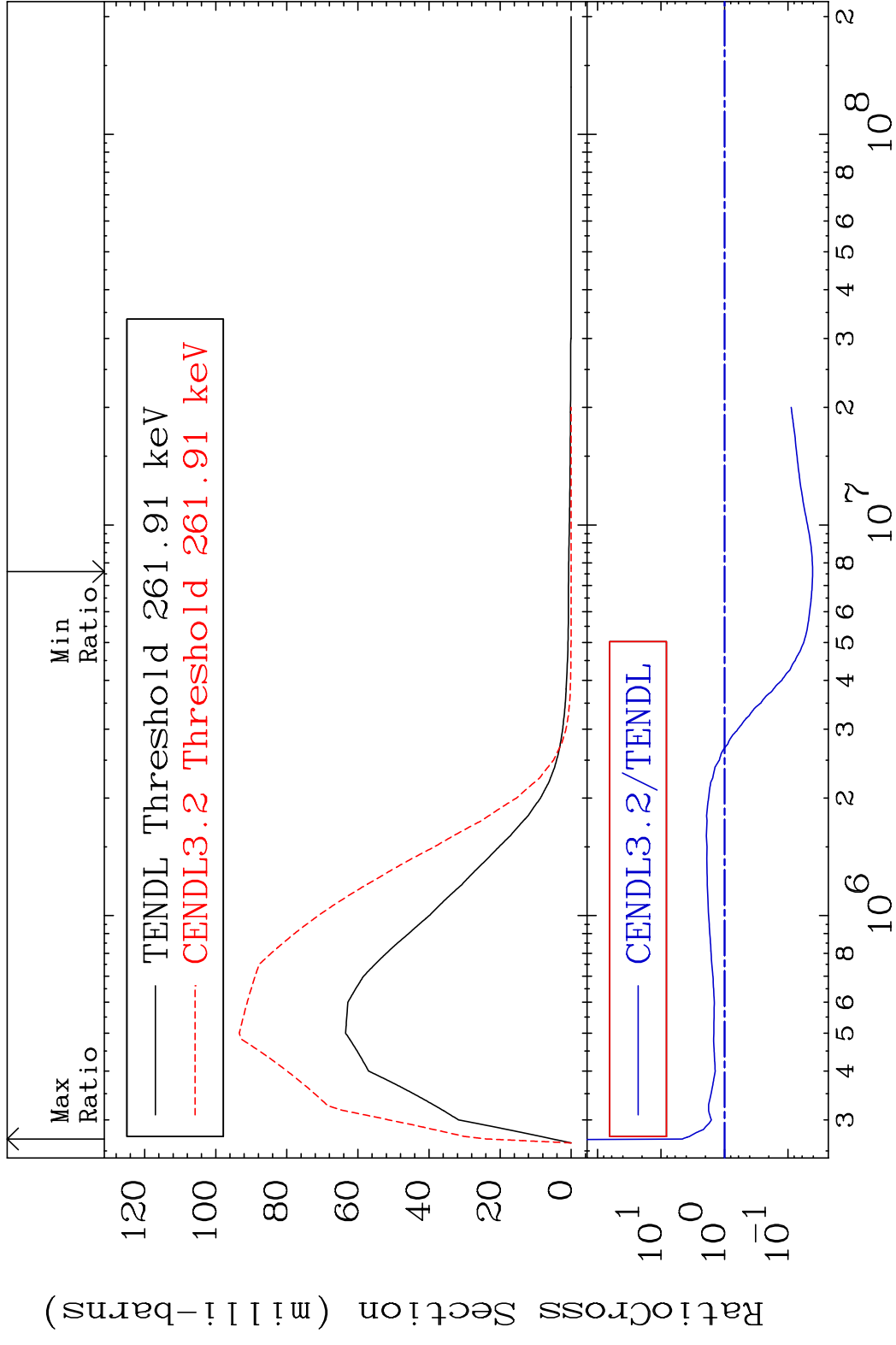
MAT 9352 MT= 59 (n, n') Level 93-Np-239
 Cross Section -100.0 To 165.9 %



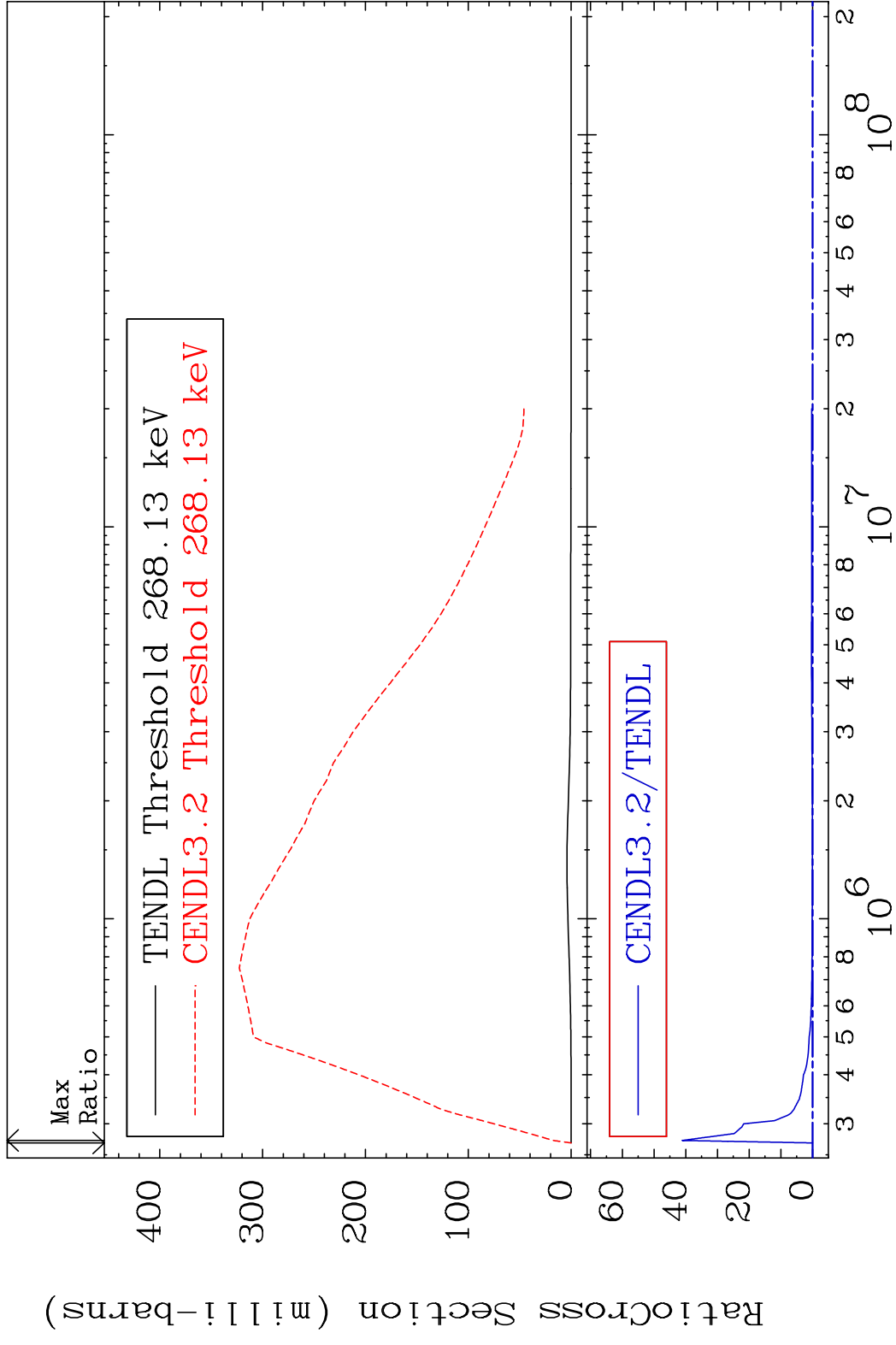
MAT 9352 MT= 60 (n, n') Level 93-Np-239
 Cross Section -100.0 To 124.0 %



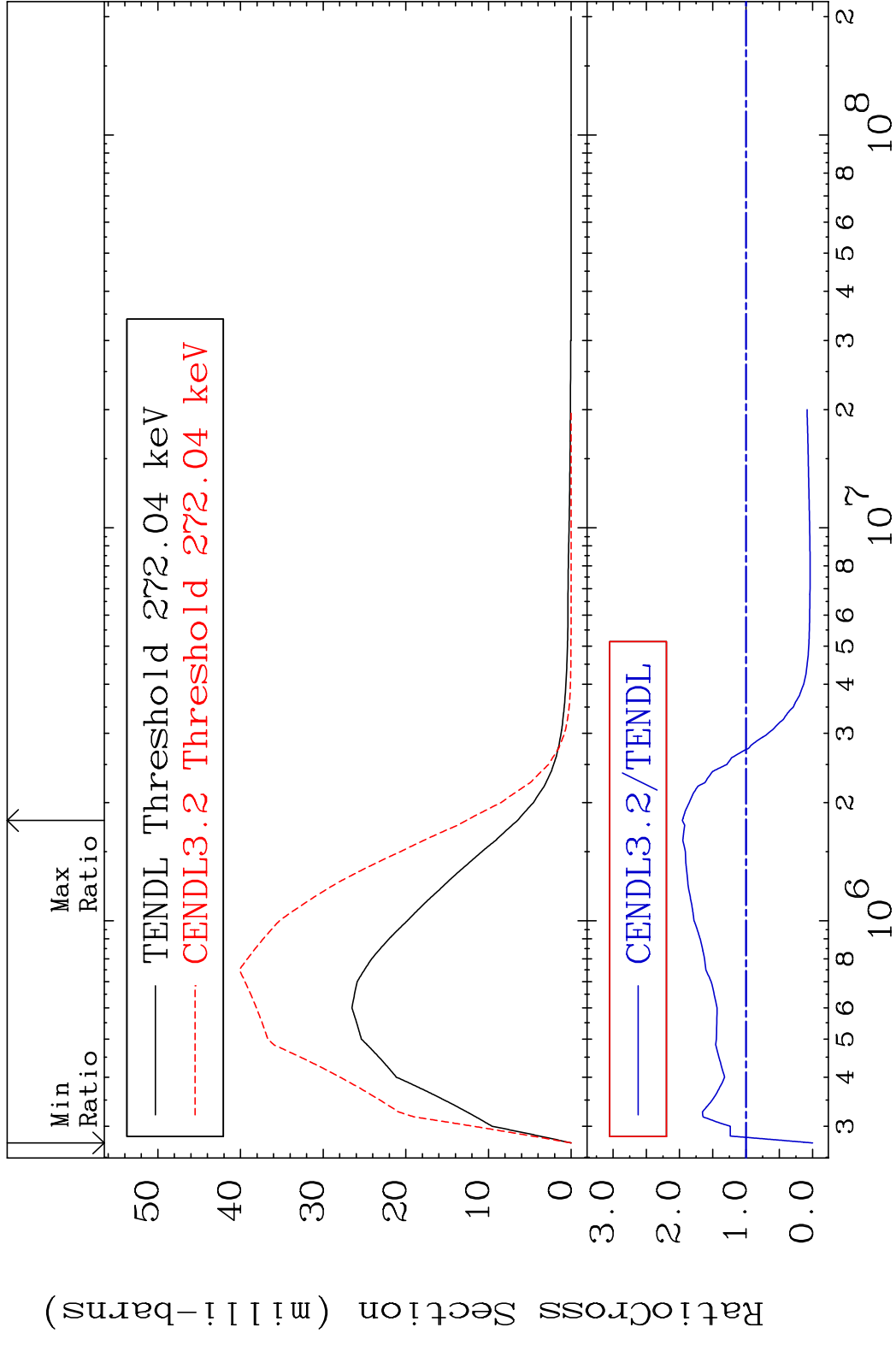
MAT 9352 MT= 61 (n, n') Level 93-Np-239
 Cross Section -95.91 To 361.4 %



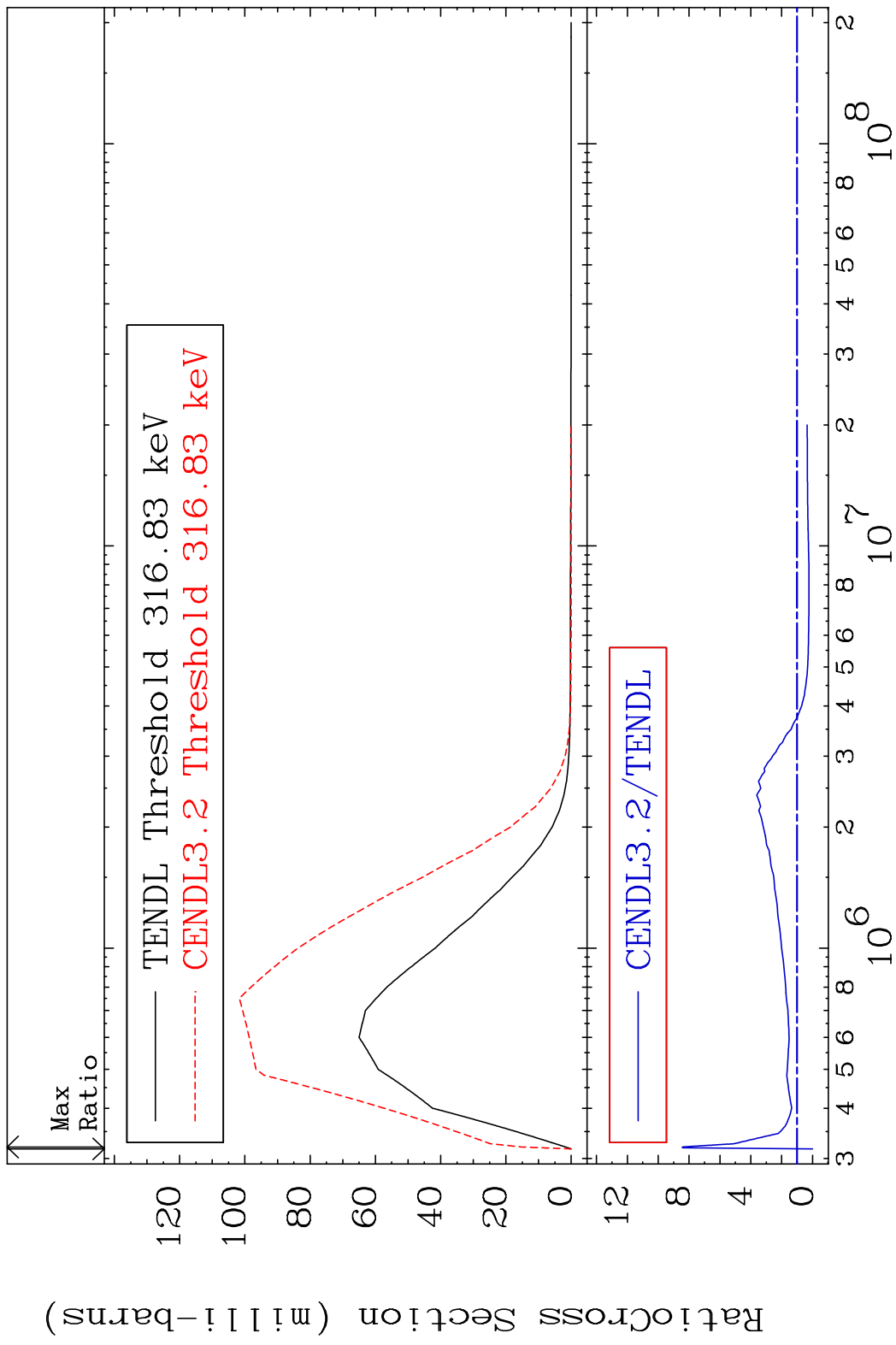
MAT 9352 MT= 62 (n, n') Level 93-Np-239
 Cross Section -100.0 To 9999. %



MAT 9352 MT= 63 (n, n') Level 93-Np-239
 Cross Section -100.0 To 95.76 %

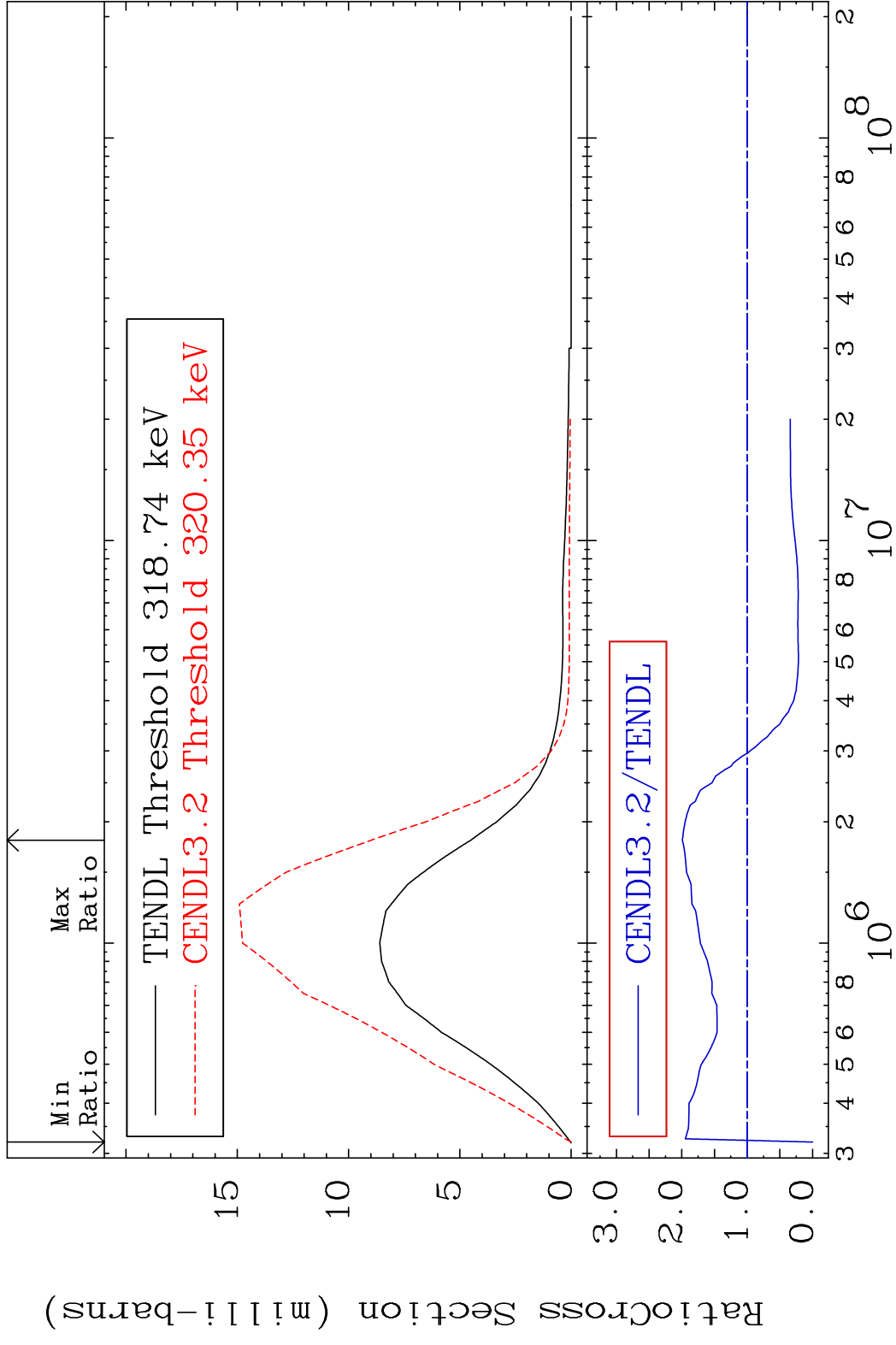


MAT 9352 MT= 64 (n, n') Level 93-Np-239
 Cross Section -100.0 To 743.8 %

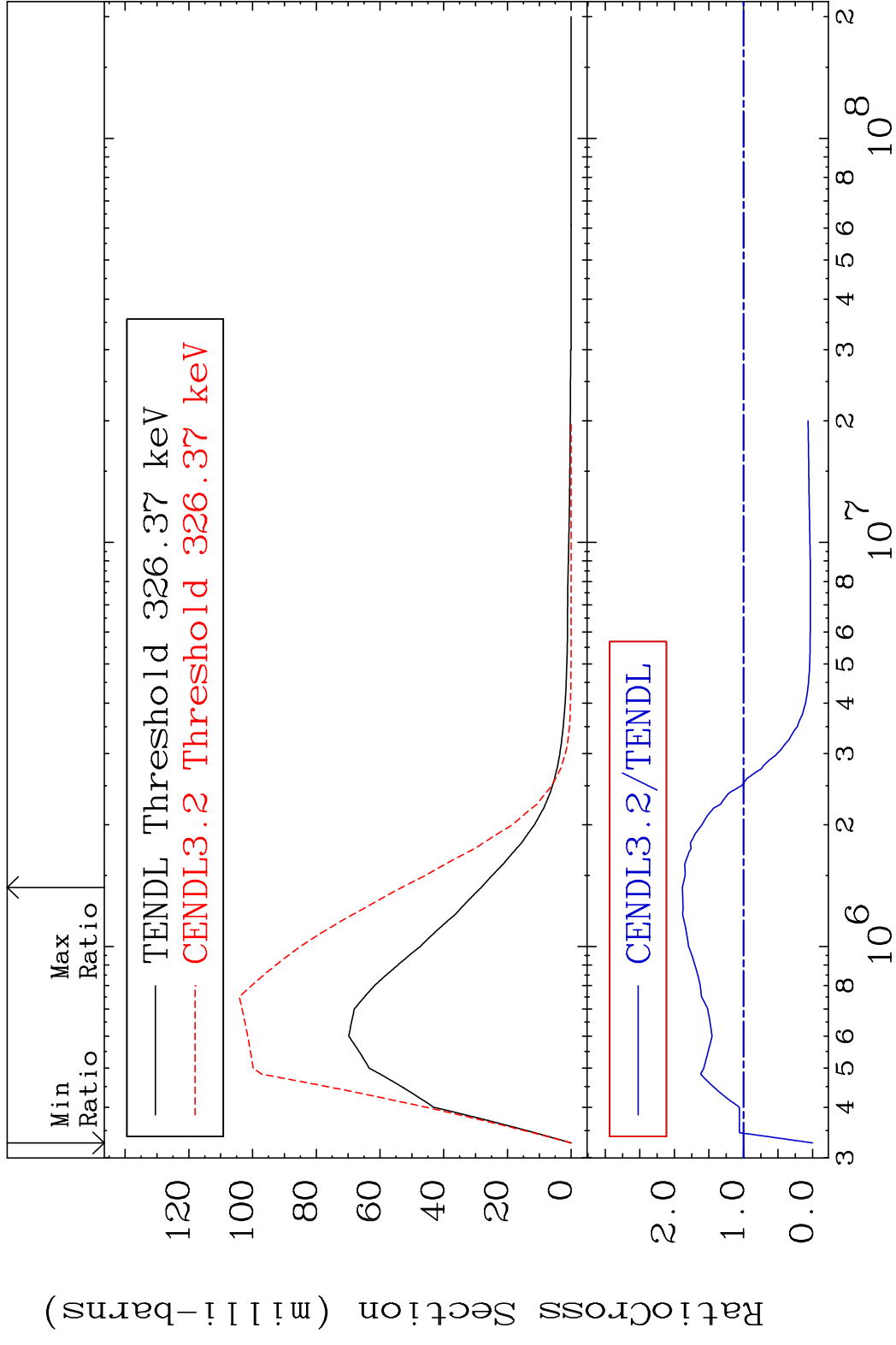


20 93-Np-239

MAT 9352 MT= 65 (n, n') Level 93-Np-239
 Cross Section -100.0 To 99.14 %



MAT 9352 MT= 66 (n,n') Level 93-Np-239
 Cross Section -100.0 To 88.46 %

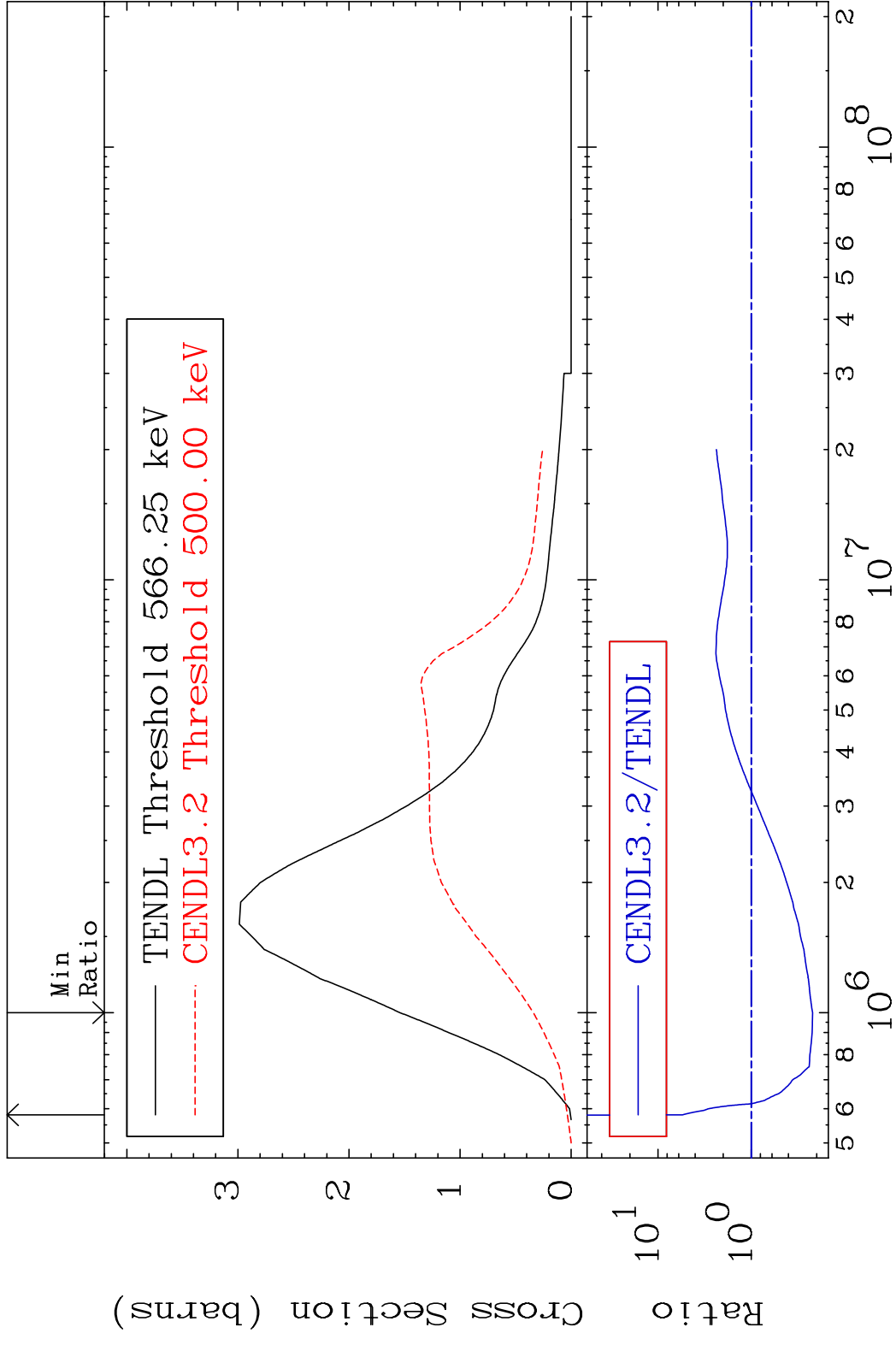


MAT 9352

(n, n') Continuum

93-Np-239

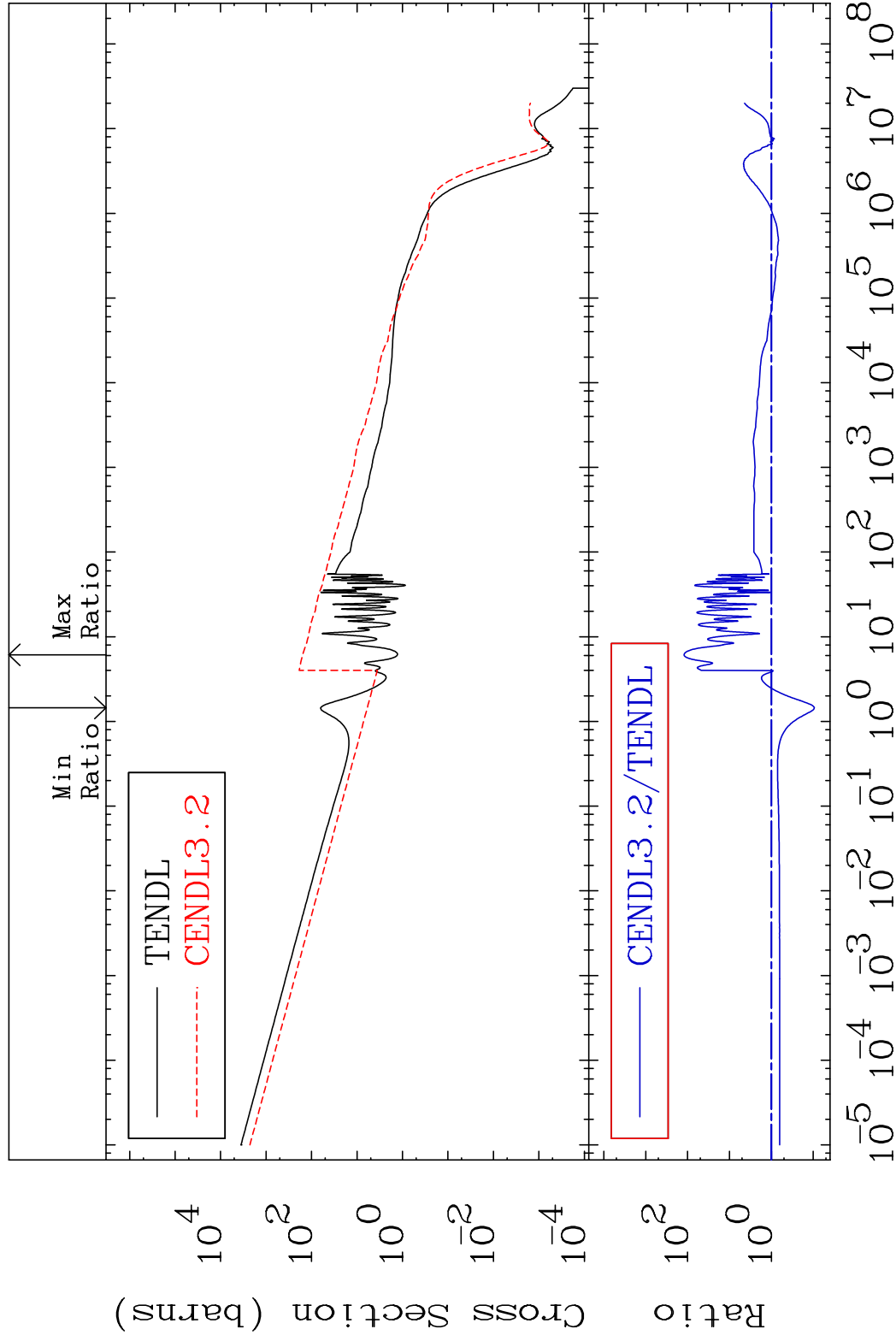
Cross Section -77.90 To 448.2 %



MAT 9352

(n, γ)
Cross Section -90.52 To 9999. %

93-Np-239



24

Incident Energy (eV)

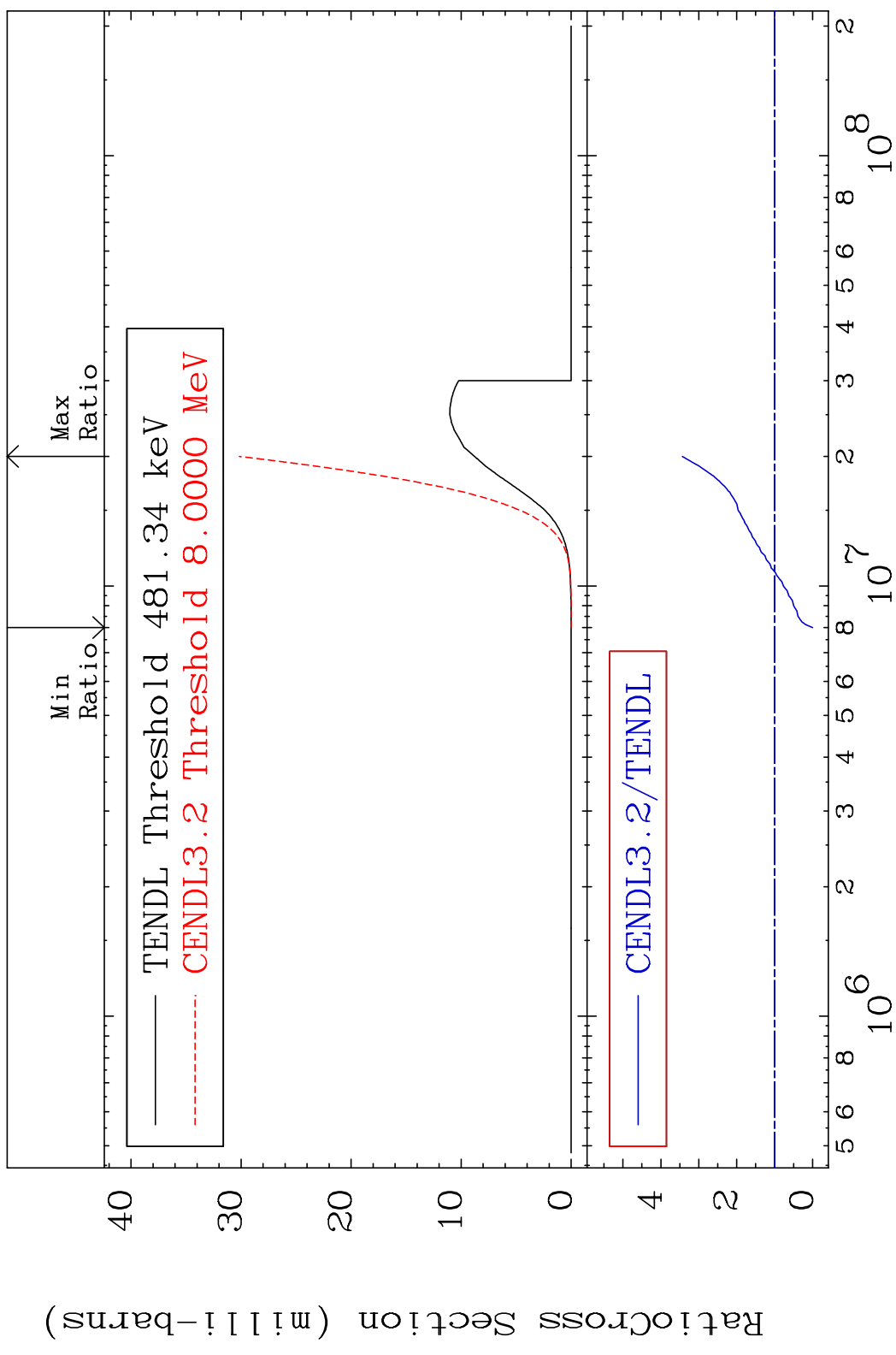
93-Np-239

MAT 9352

(n, p)

93-Np-239

Cross Section -100.0 To 243.3 %

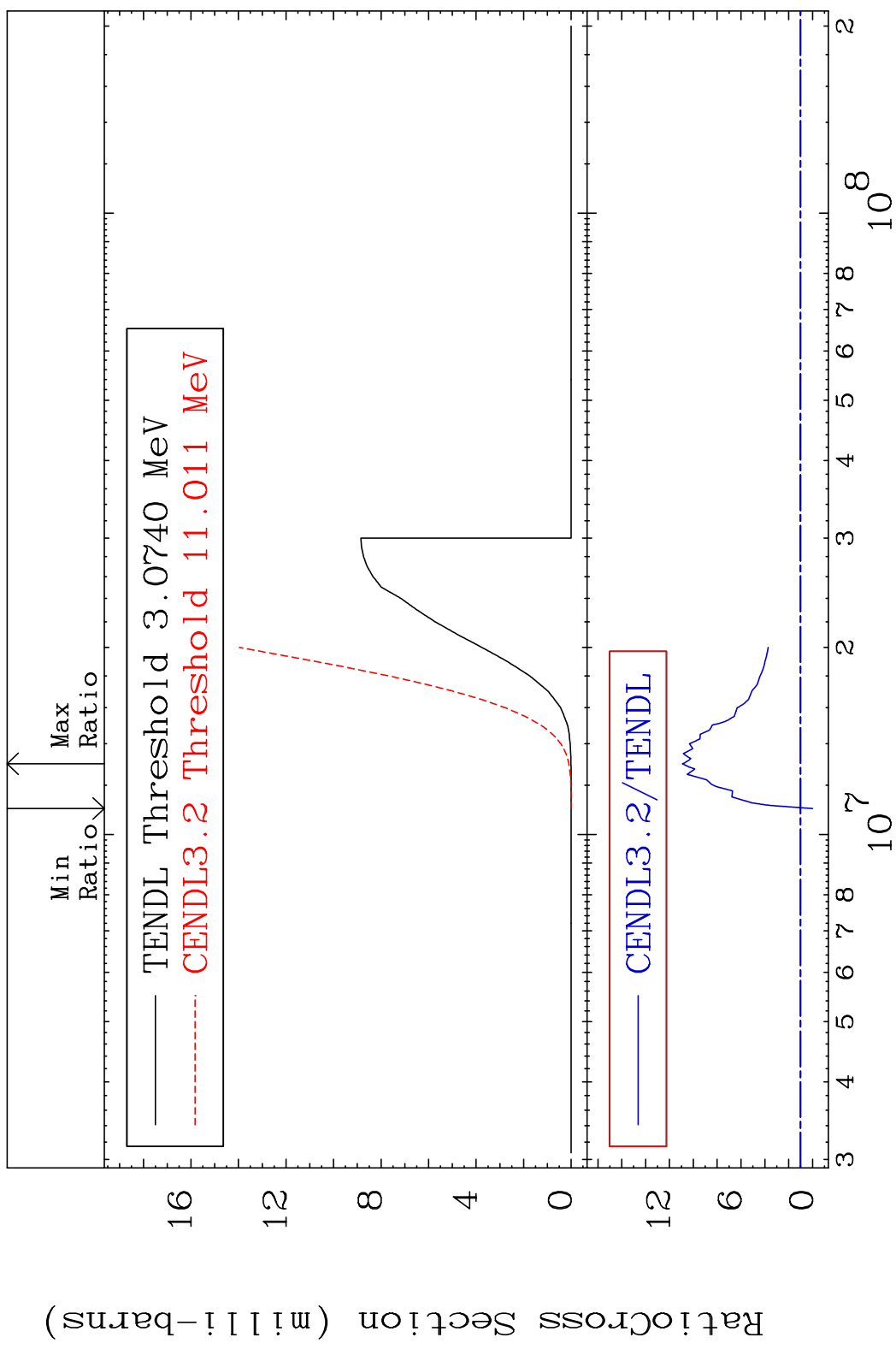


MAT 9352

(n, d)

93-Np-239

Cross Section -100.0 To 991.9 %

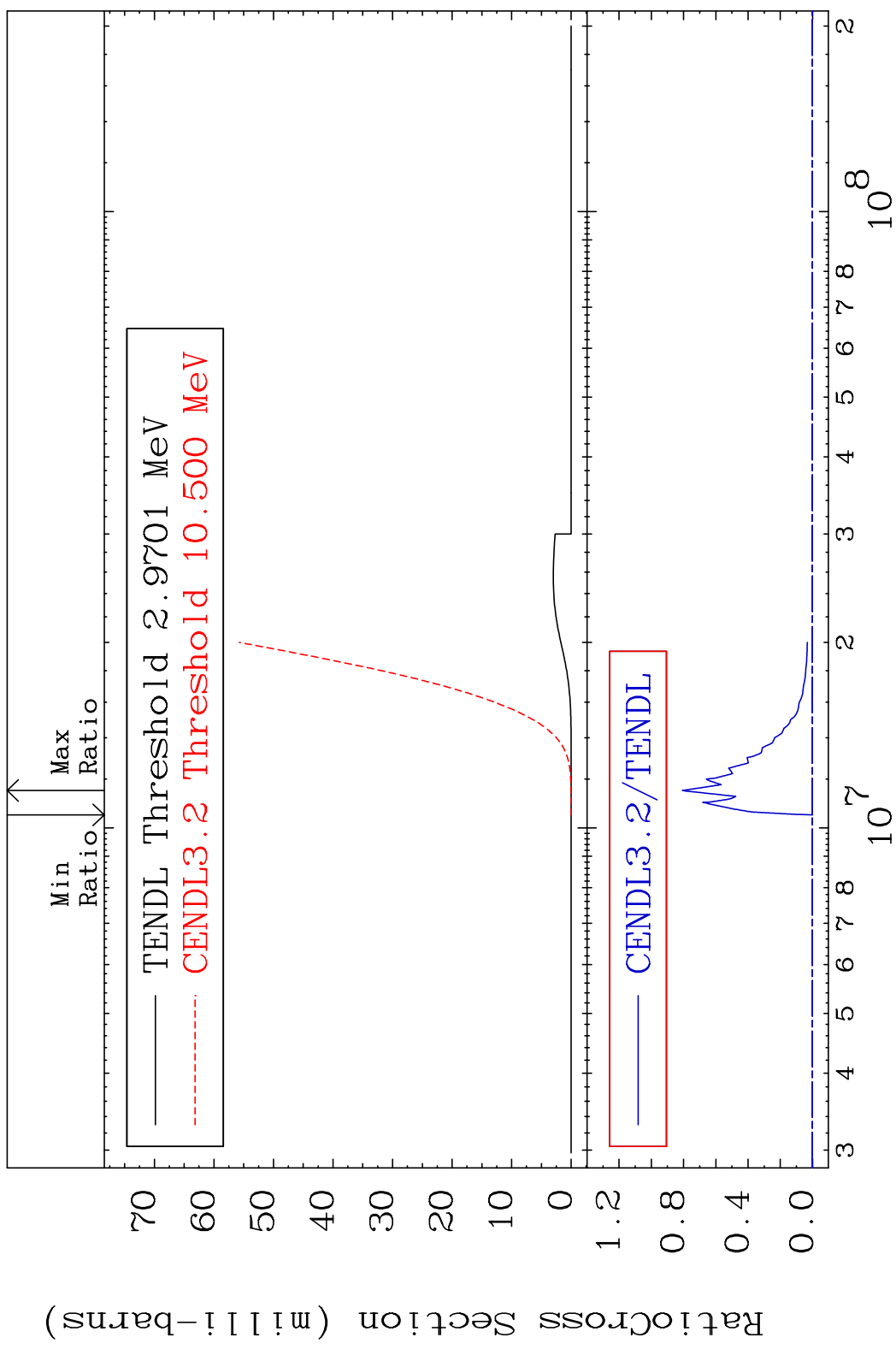


MAT 9352

(n, t)

93-Np-239

Cross Section -100.0 To 9999. %

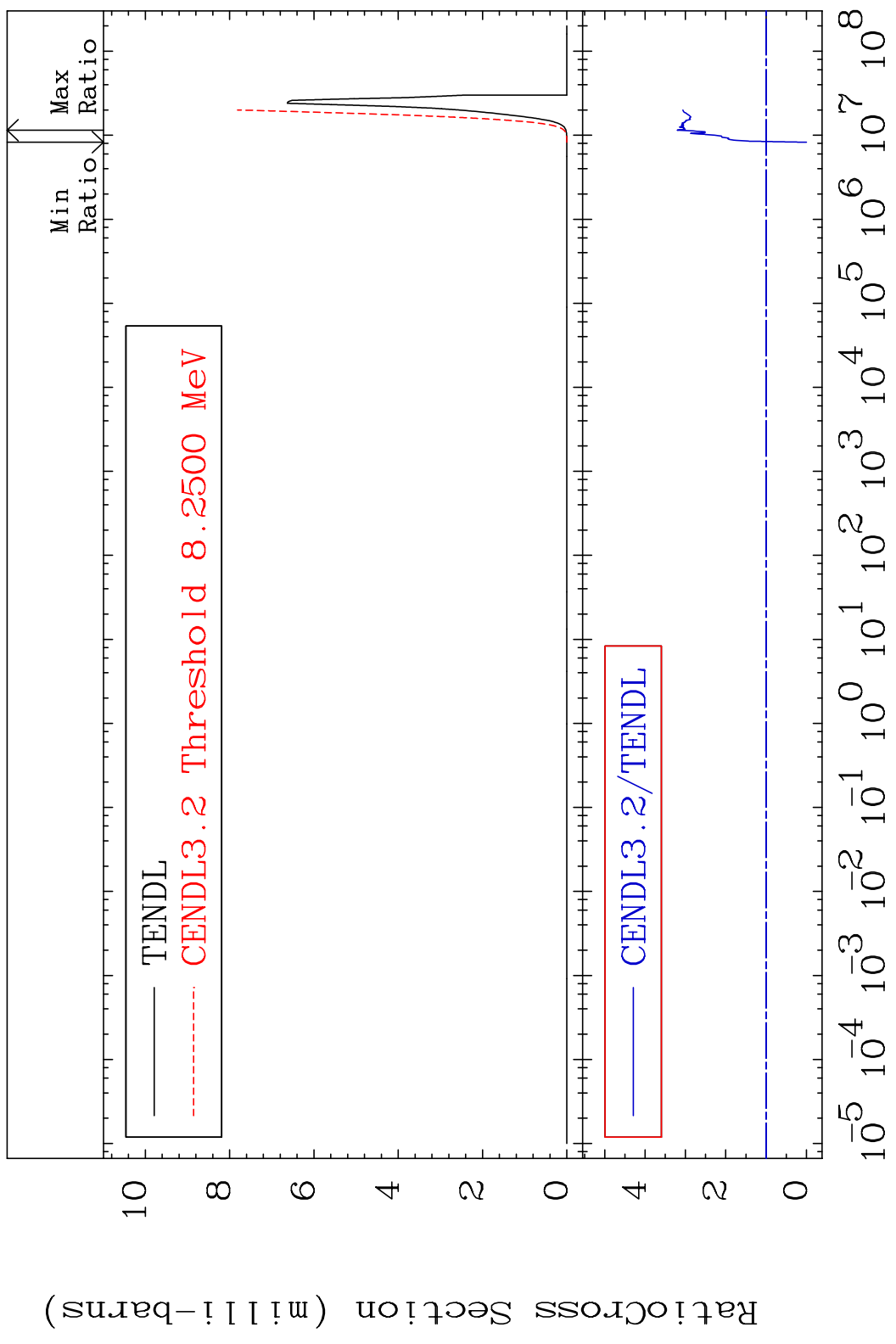


MAT 9352

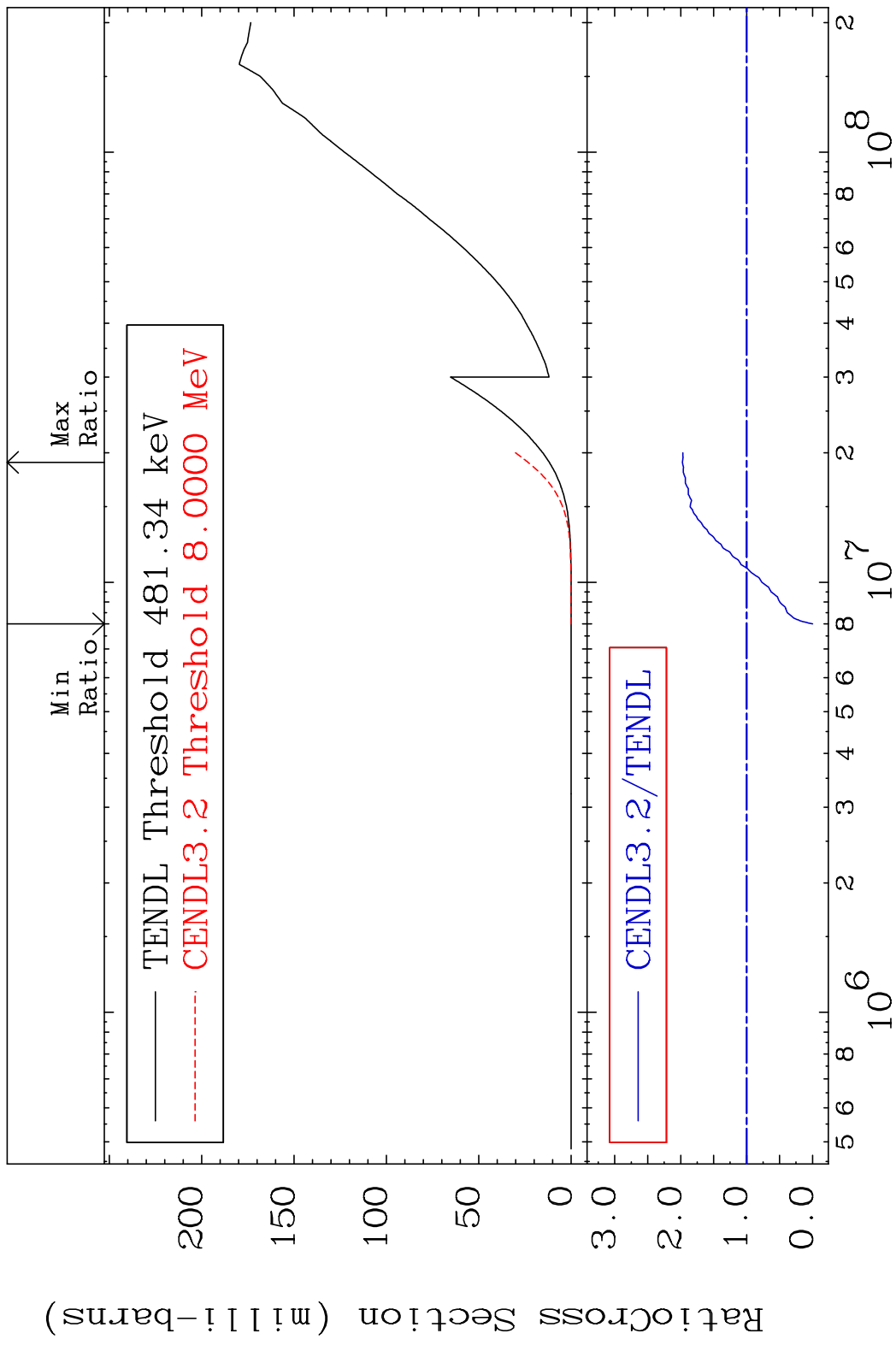
(n, α)

93-Np-239

Cross Section -100.0 To 220.4 %

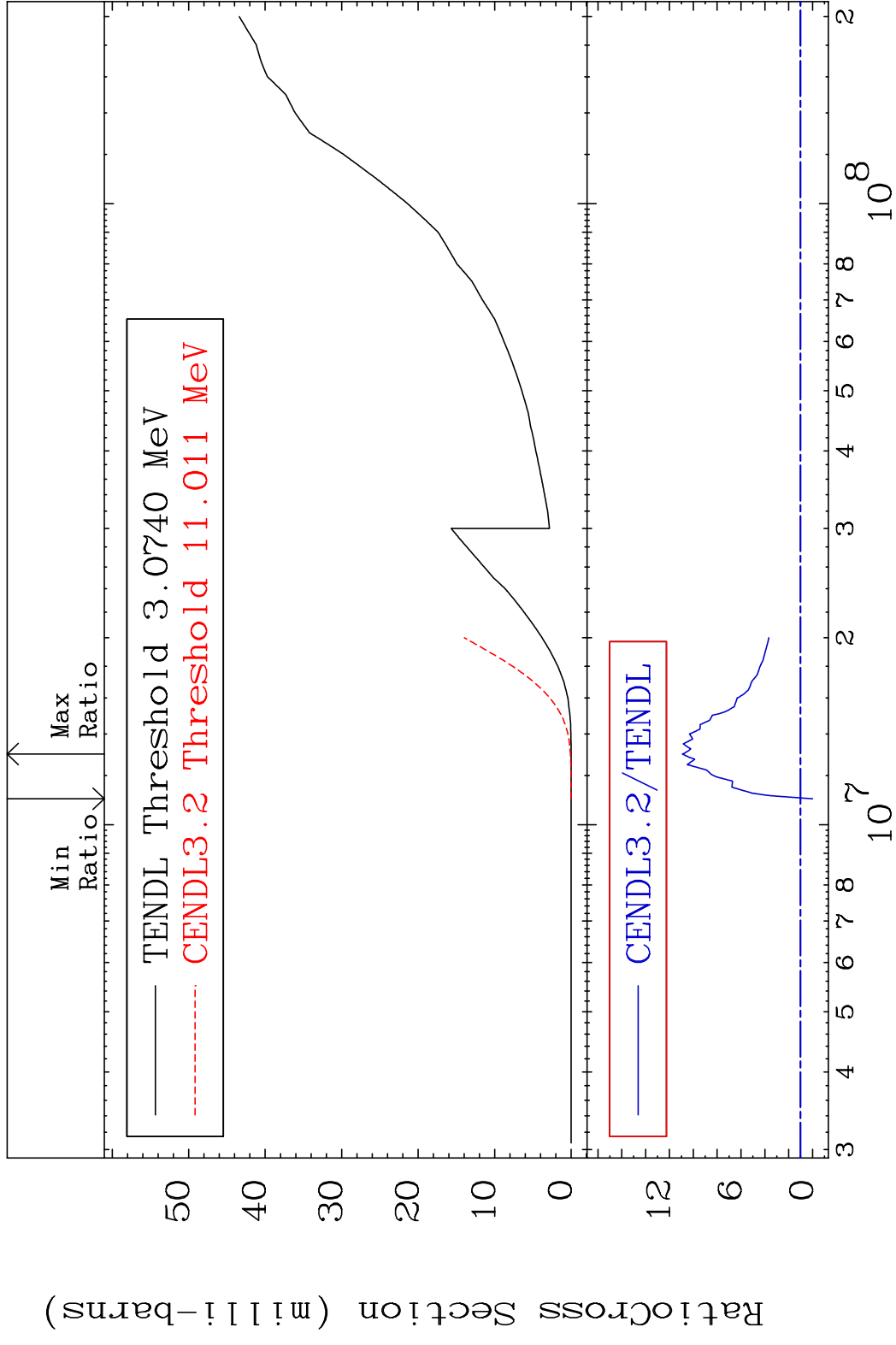


MAT 9352 Hydrogen Production 93-Np-239
 Cross Section -100.0 To 97.46 %



MAT 9352

Deuterium Production 93-Np-239
Cross Section -100.0 To 991.9 %



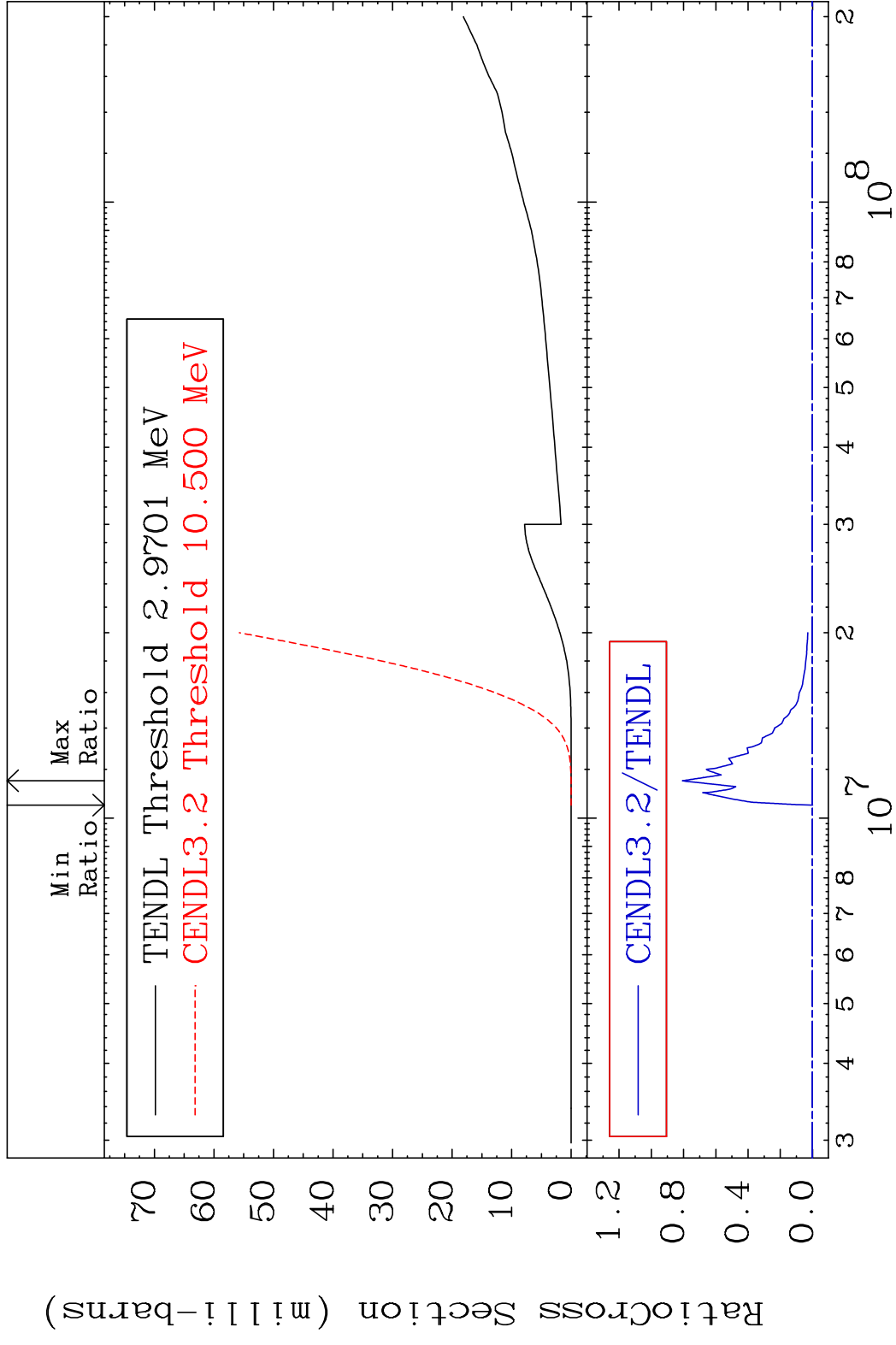
30

Incident Energy (eV)

93-Np-239

MAT 9352

Tritium Production 93-Np-239
Cross Section -100.0 To 9999. %

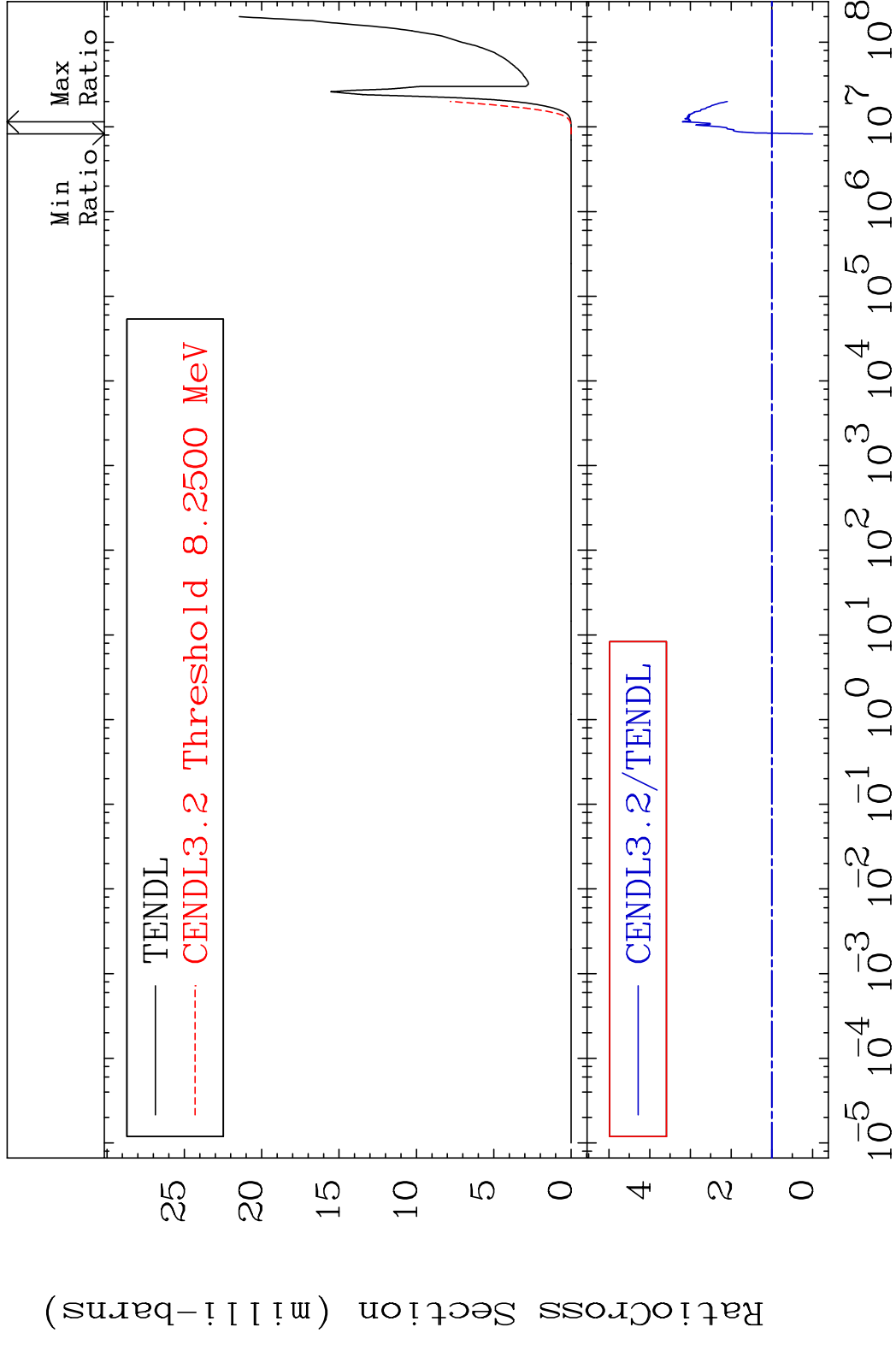


MAT 9352

He-4 Production

93-Np-239

Cross Section -100.0 To 219.8 %

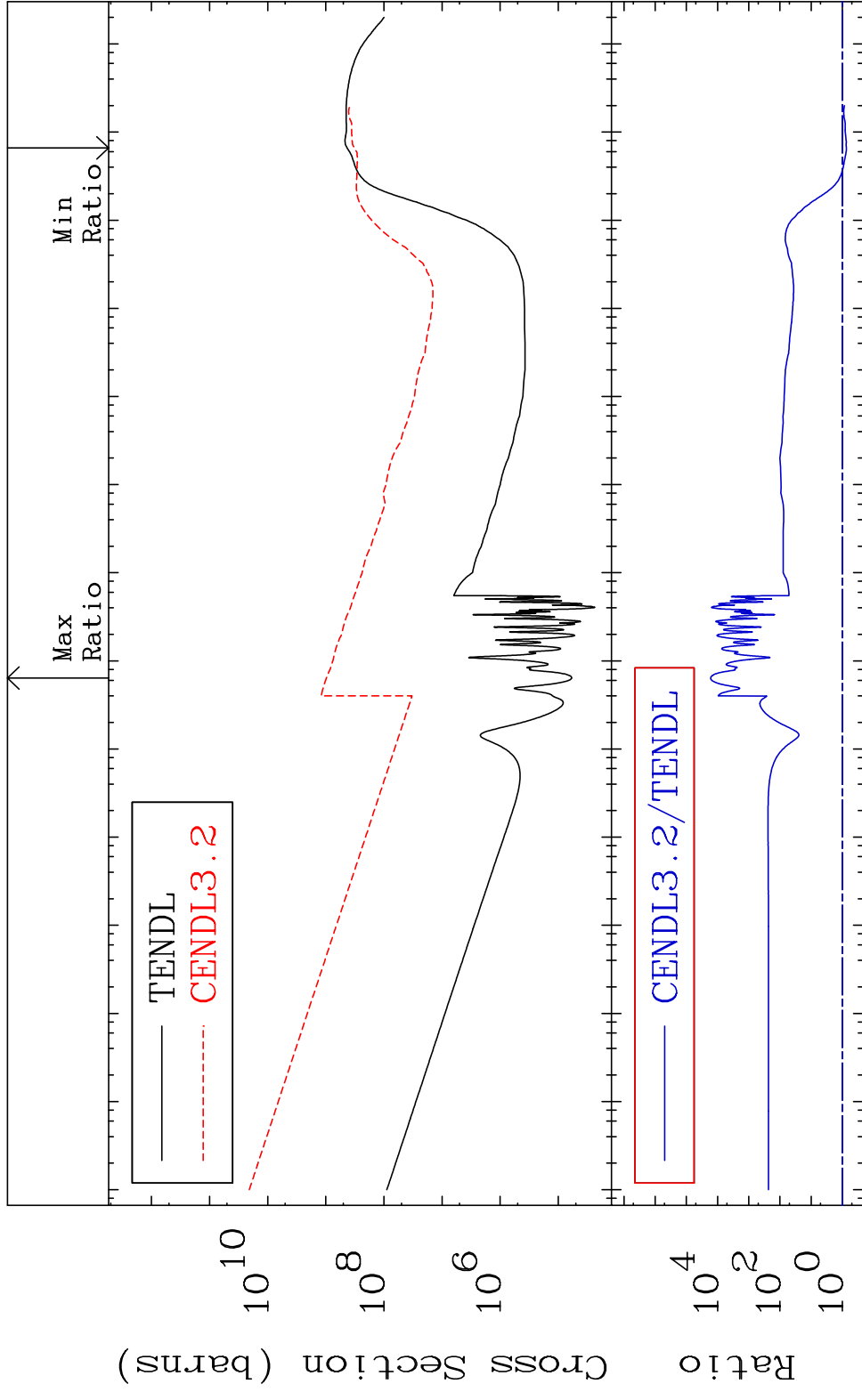


32

Incident Energy (eV)

93-Np-239

MAT 9352 Kerma total (eV-barns) 93-Np-239
 Cross Section -25.24 To 9999. %

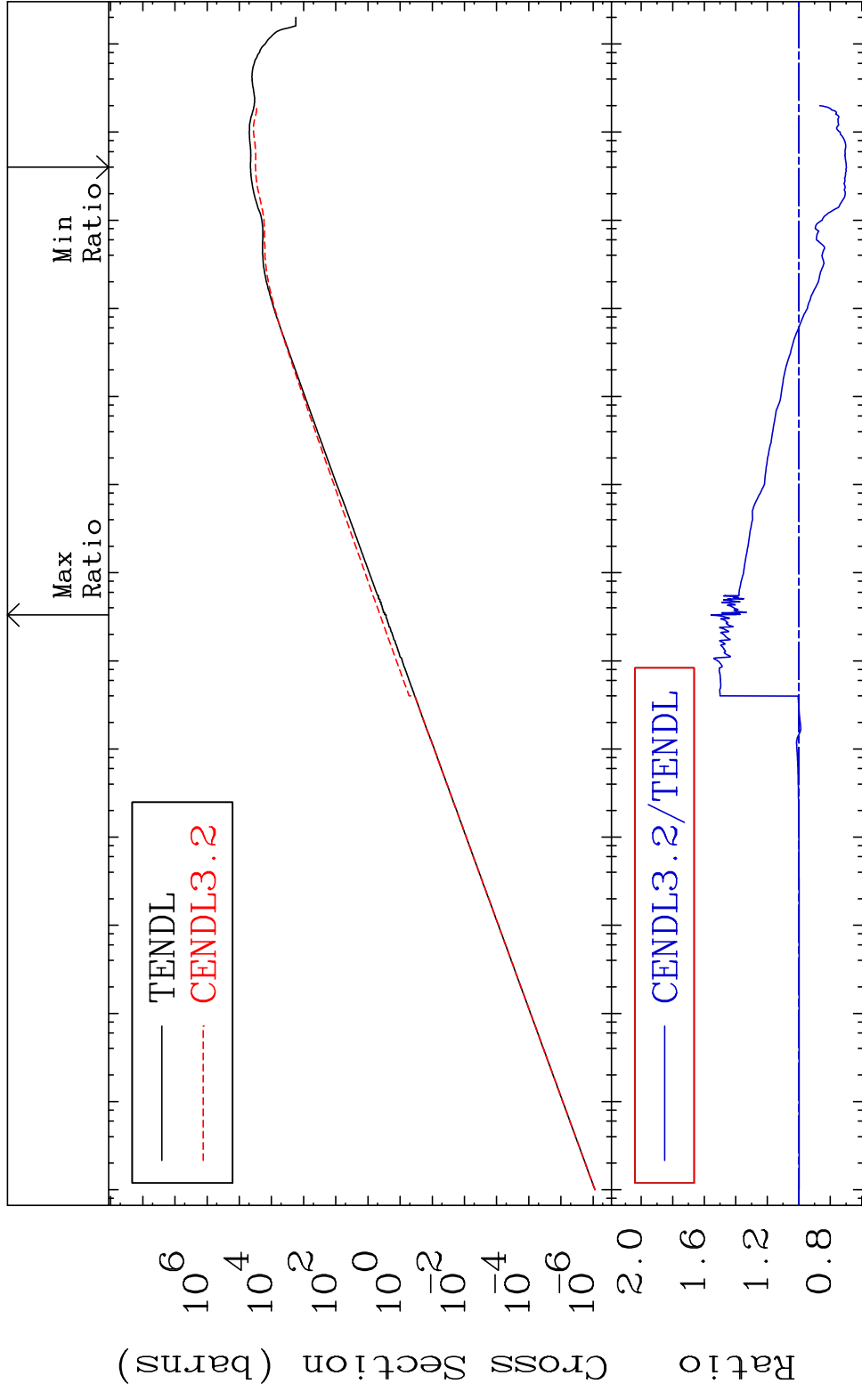


33 Incident Energy (eV) 93-Np-239

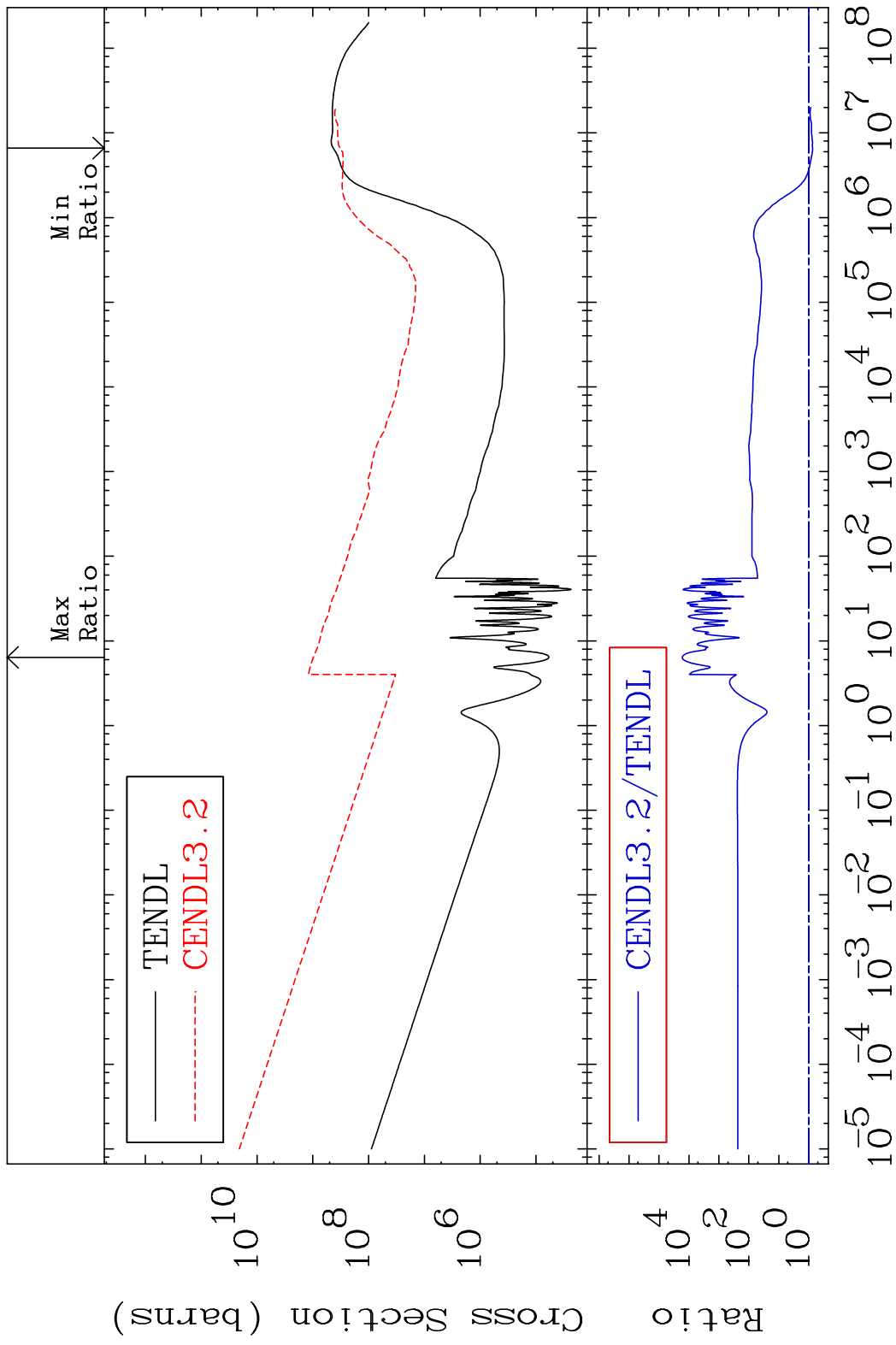
MAT 9352

Kerma elastic
Cross Section

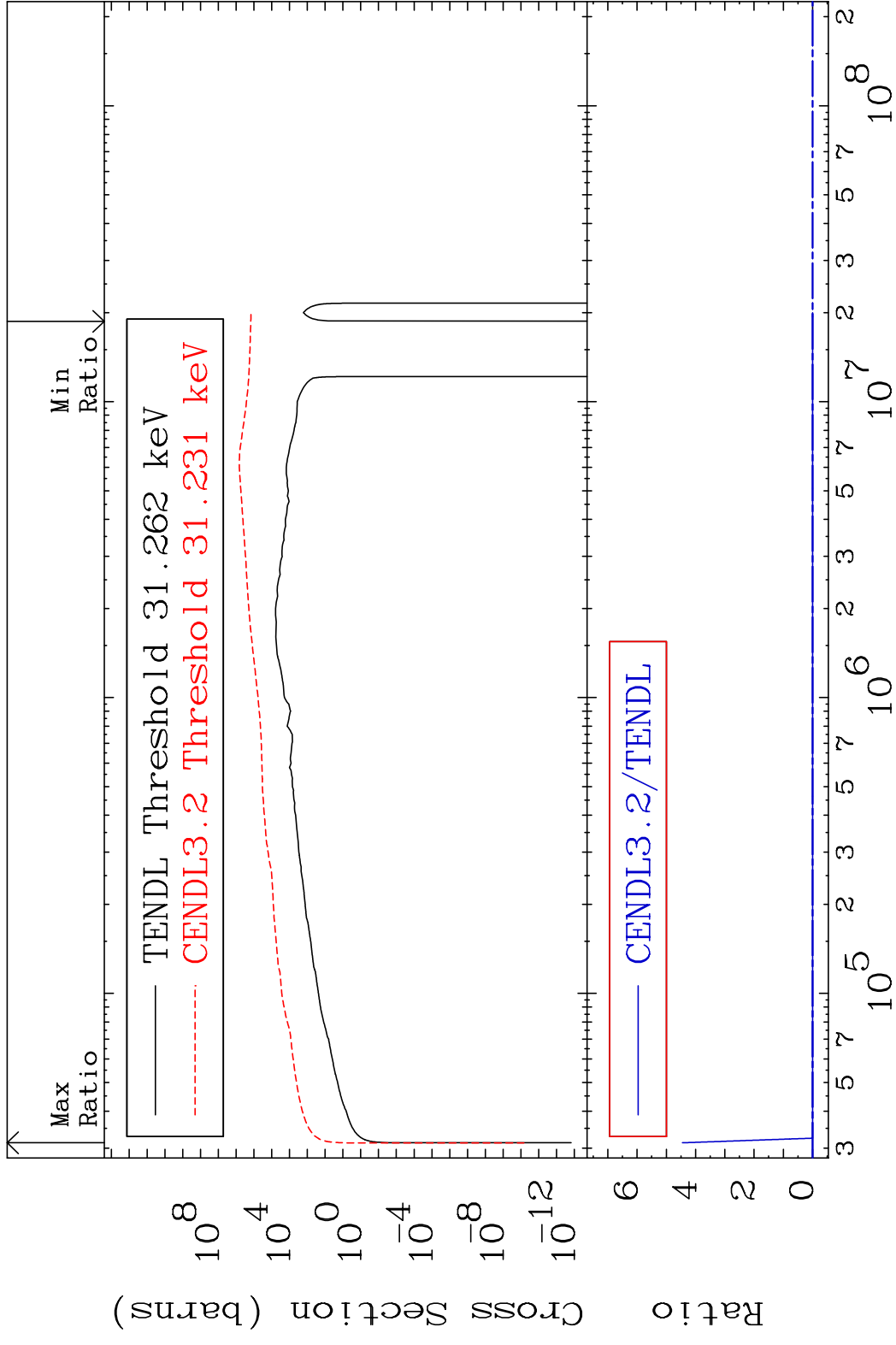
93-Np-239
-30.16 To 55.92 %



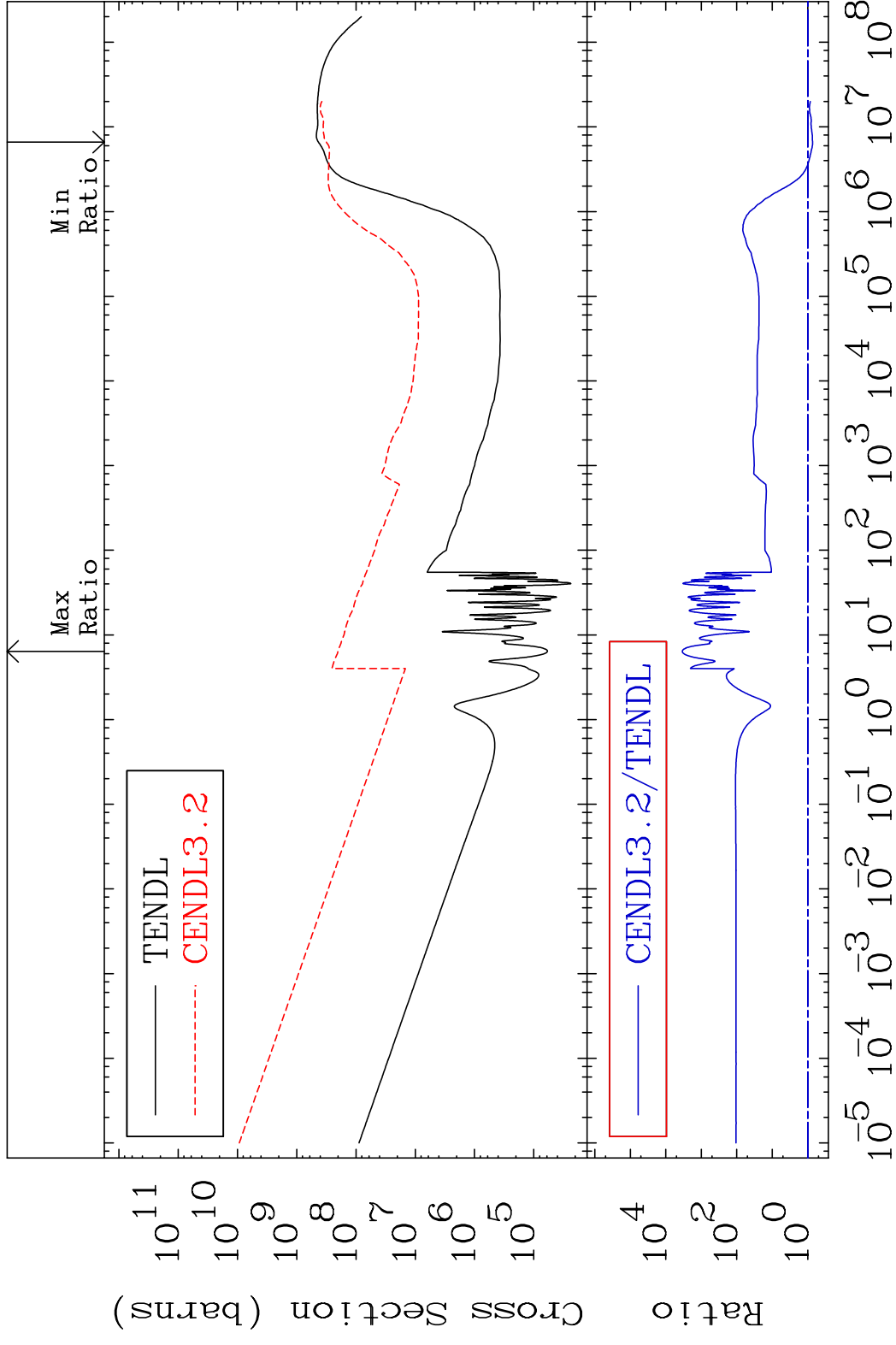
MAT 9352 Kerma non-elastic (all but mt2) 93-Np-239
 Cross Section -25.24 To 9999. %

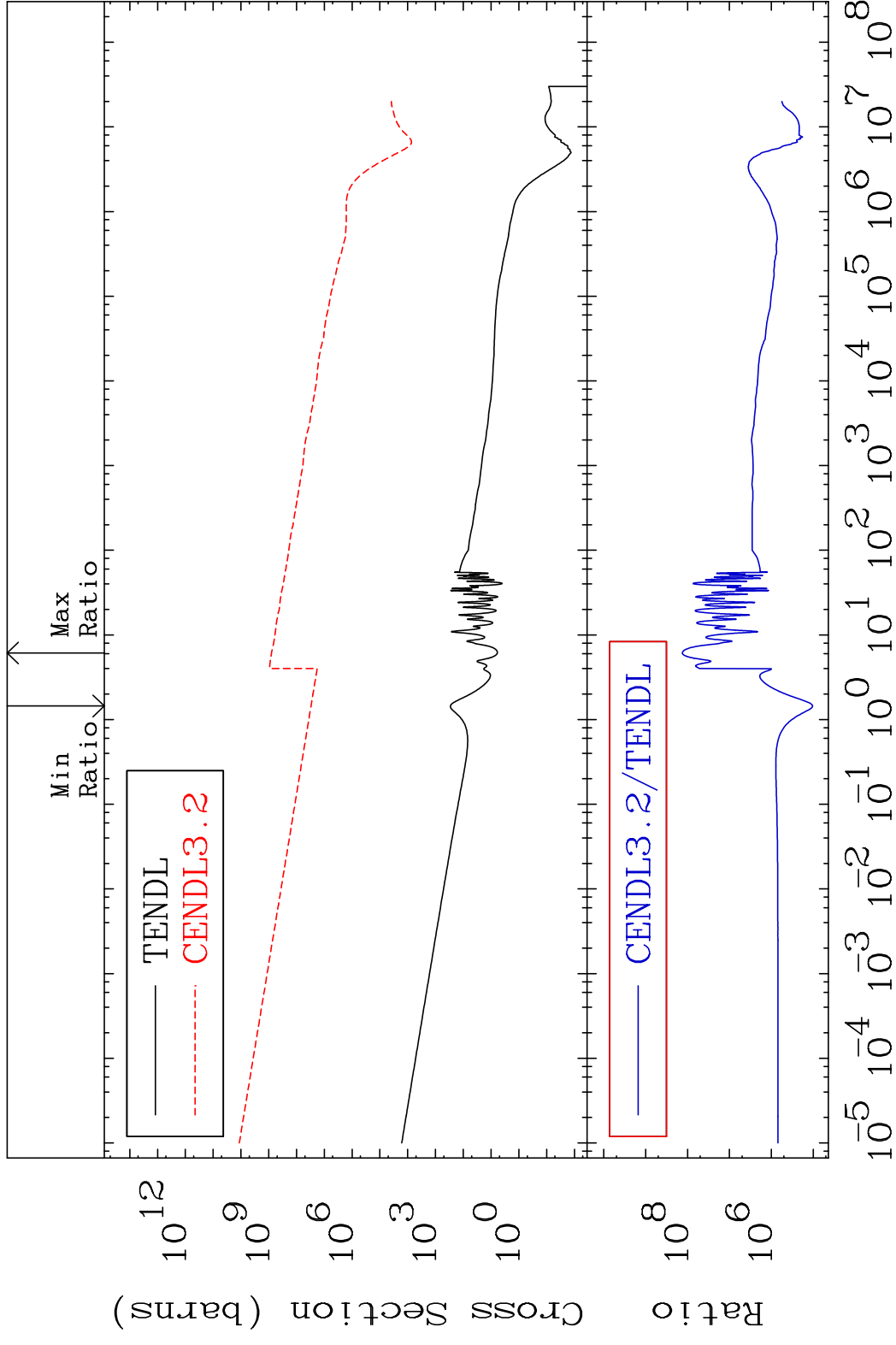


MAT 9352 Kerma inelastic (mt51-91) 93-Np-239
 Cross Section -9999. To 9999. %



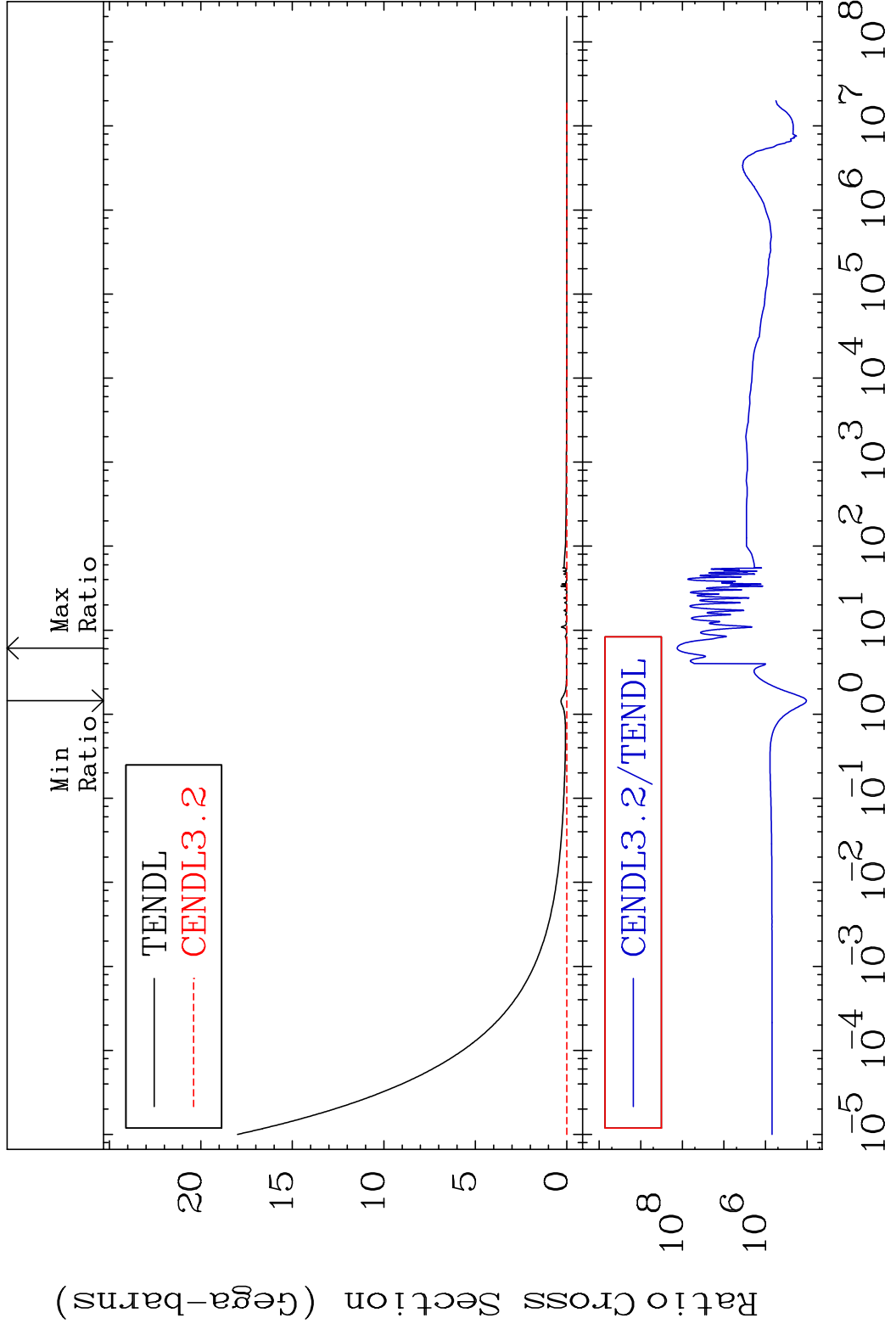
MAT 9352 Kerma fission (mt18 or mt19-20-21-38) 93-Np-239
 Cross Section -26.72 To 9999. %



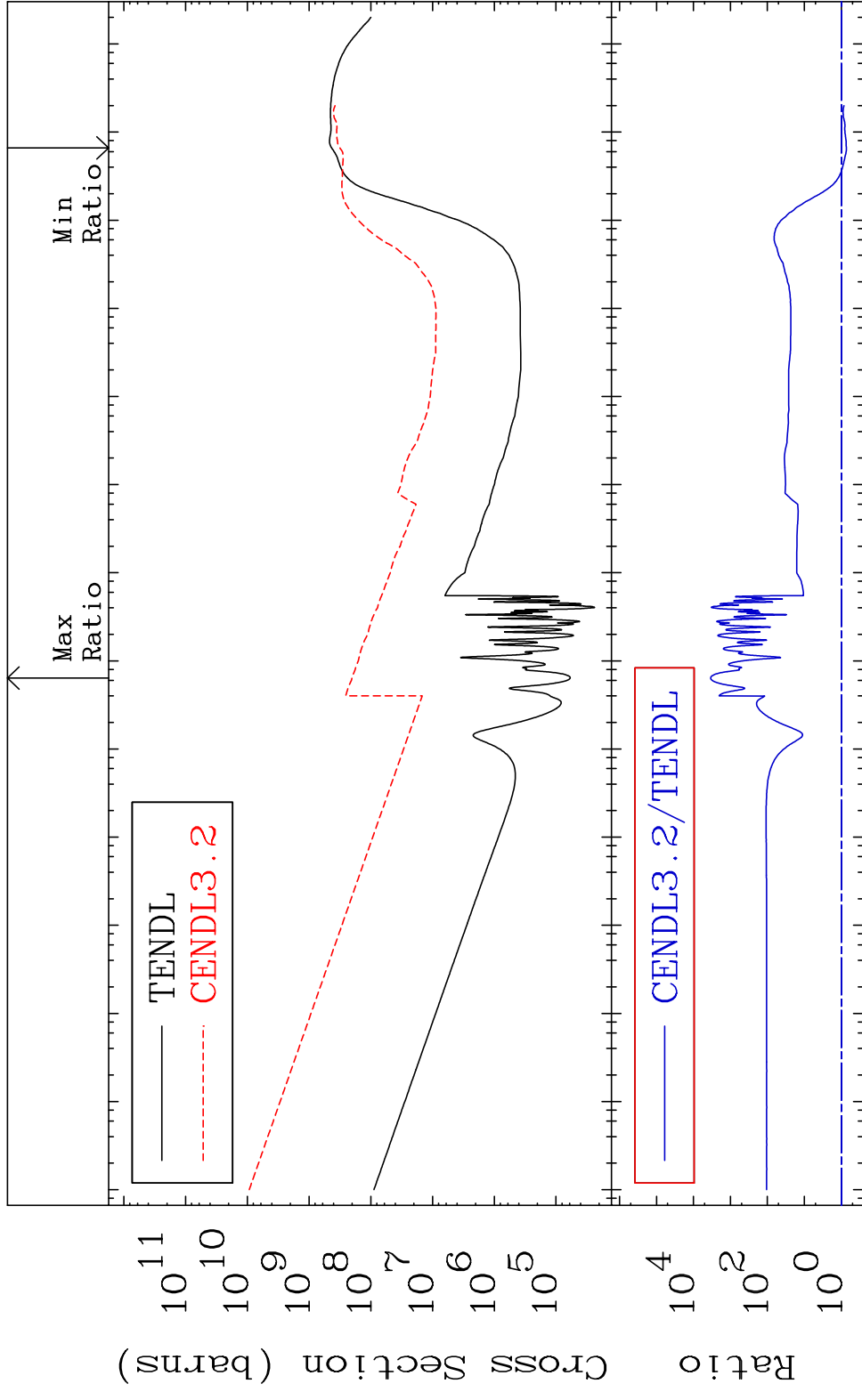


MAT 9352

Total photon (eV-barns) 93-Np-239
Cross Section 9999. To 9999. %

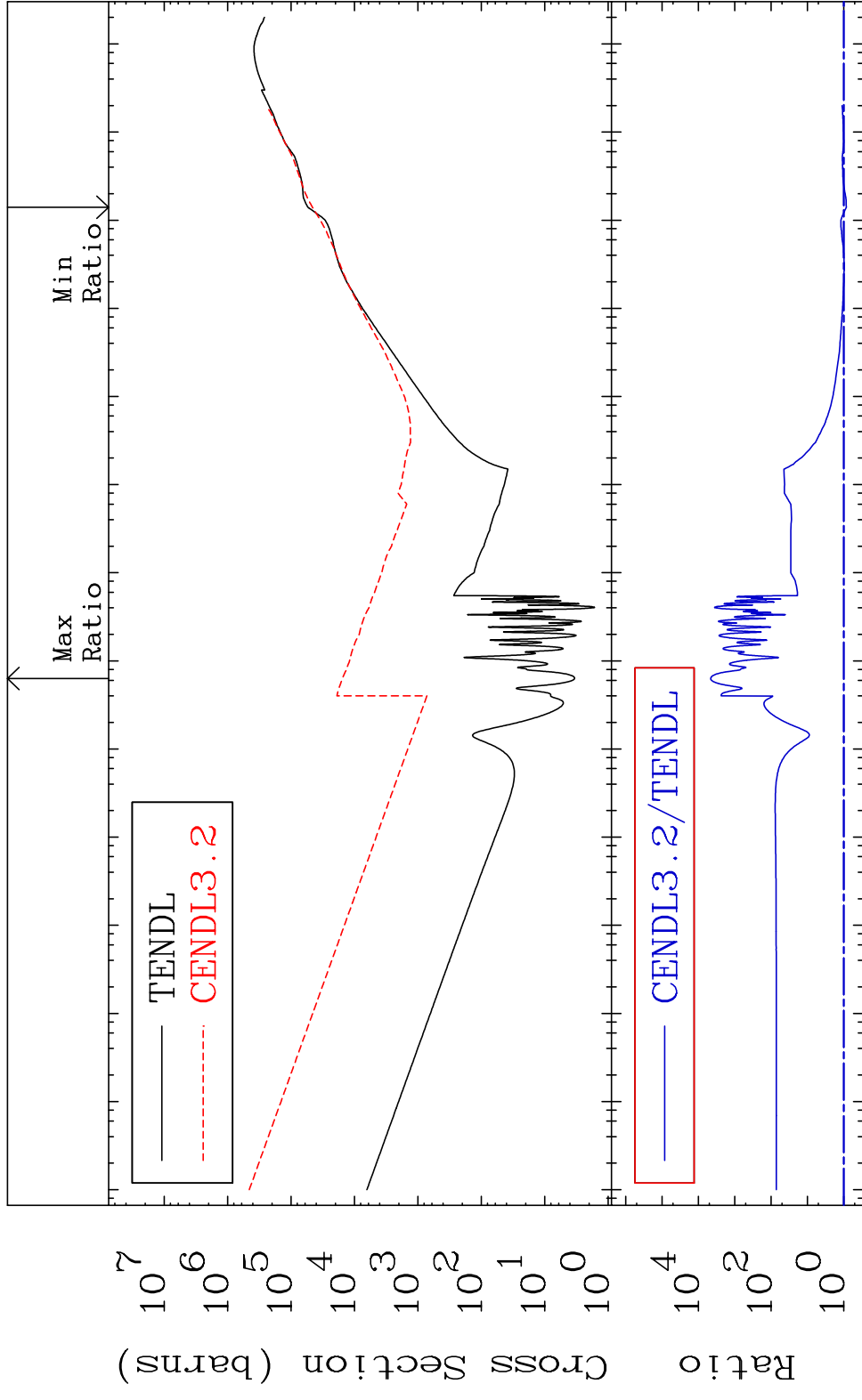


MAT 9352 Total kinematic kerma (high limit) 93-Np-239
 Cross Section -26.71 To 9999. %



40 Incident Energy (eV) 93-Np-239

MAT 9352 Dpa total (eV-barns) 93-Np-239
 Cross Section -15.50 To 9999. %



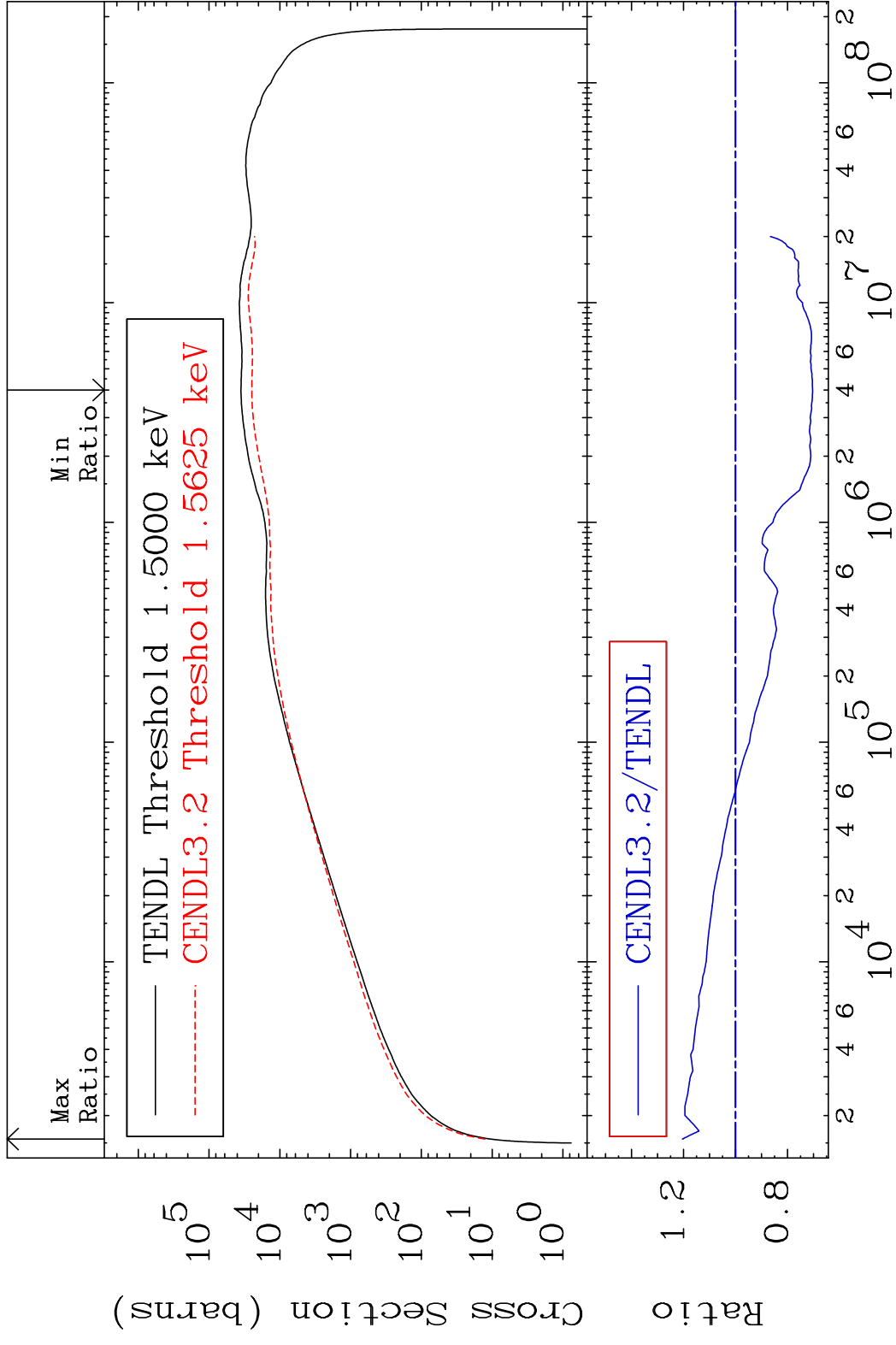
MAT 9352

Dpa elastic (mt2)

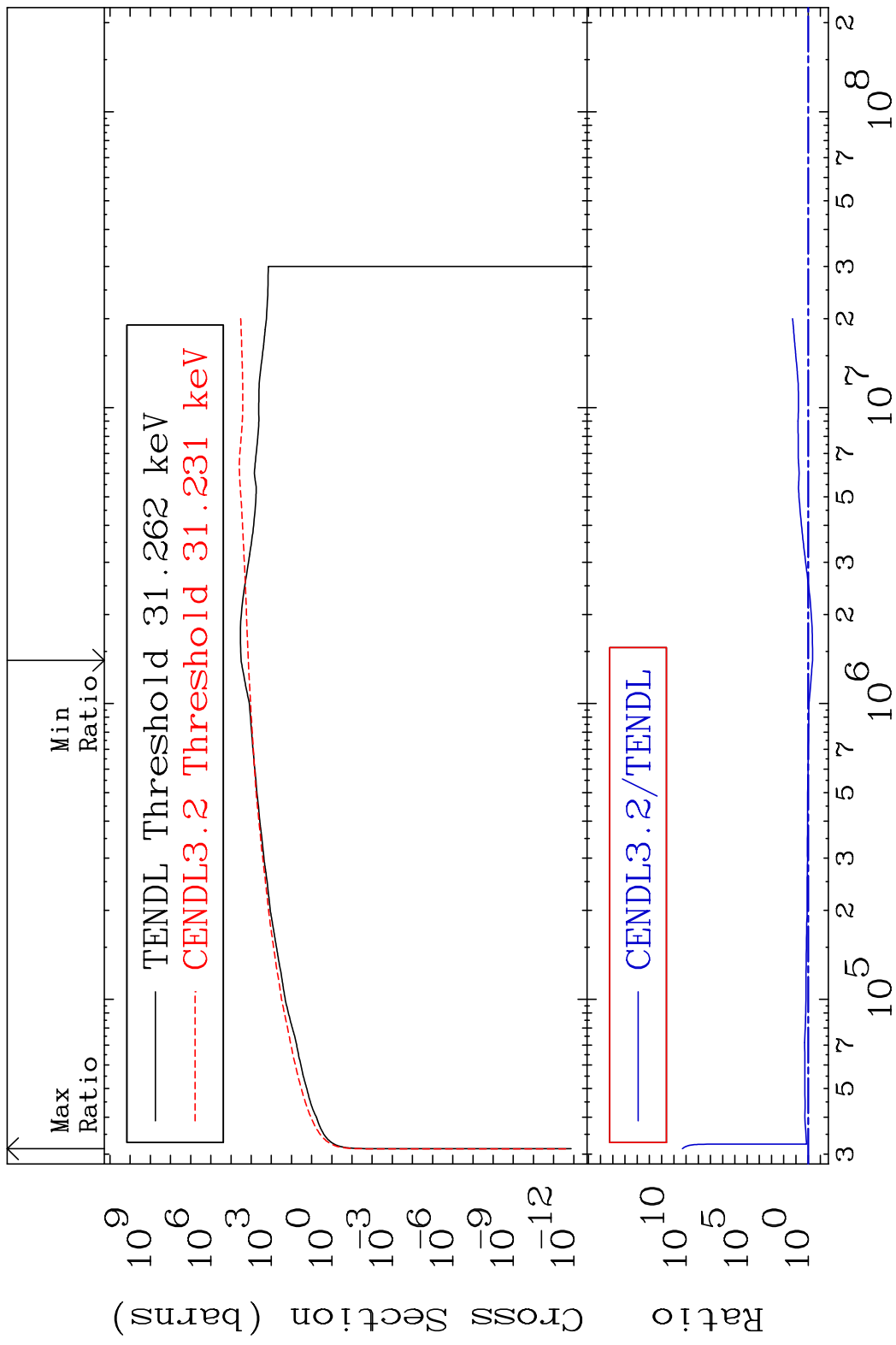
93-Np-239

Cross Section

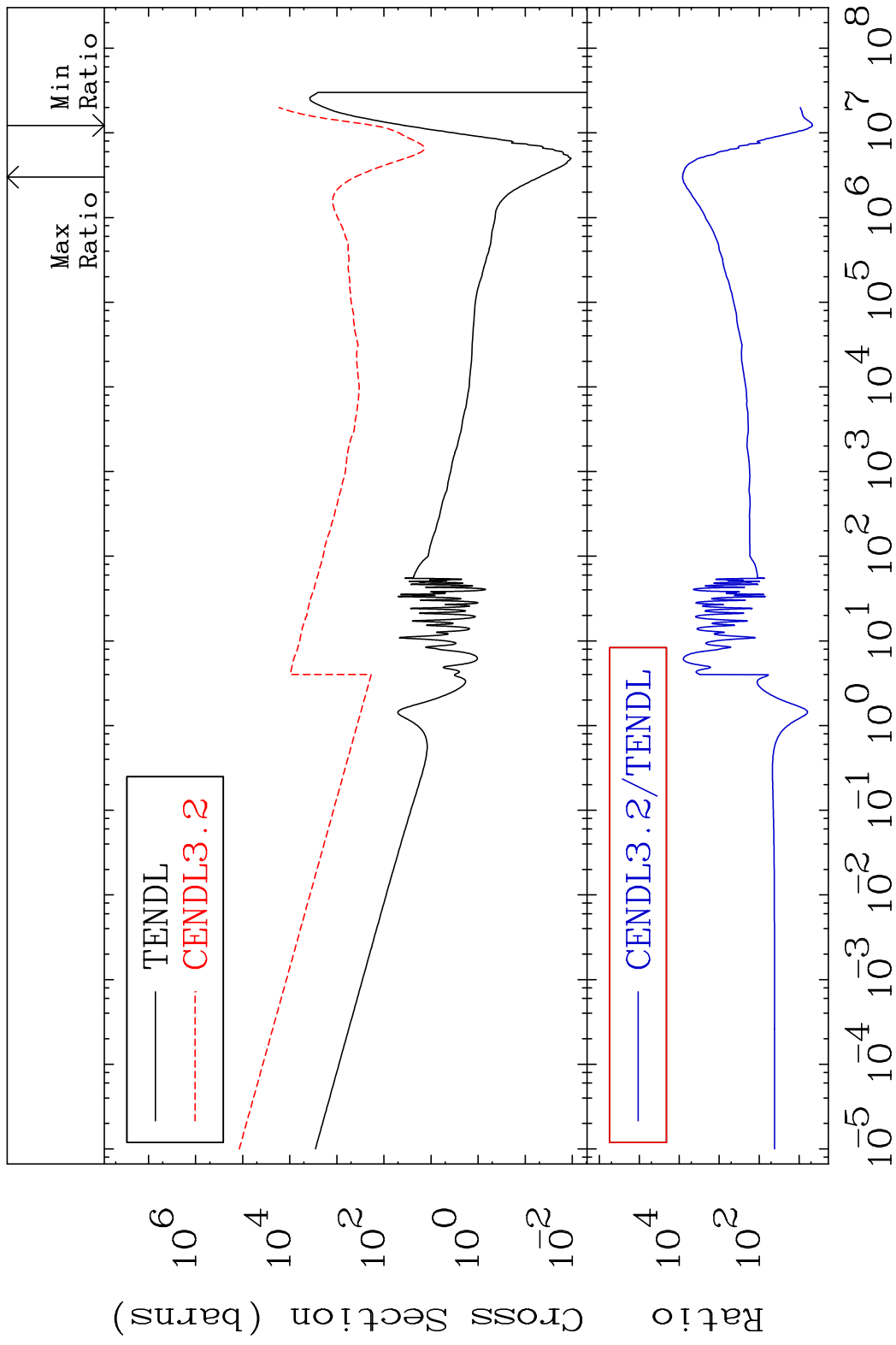
-29.65 To 20.46 %



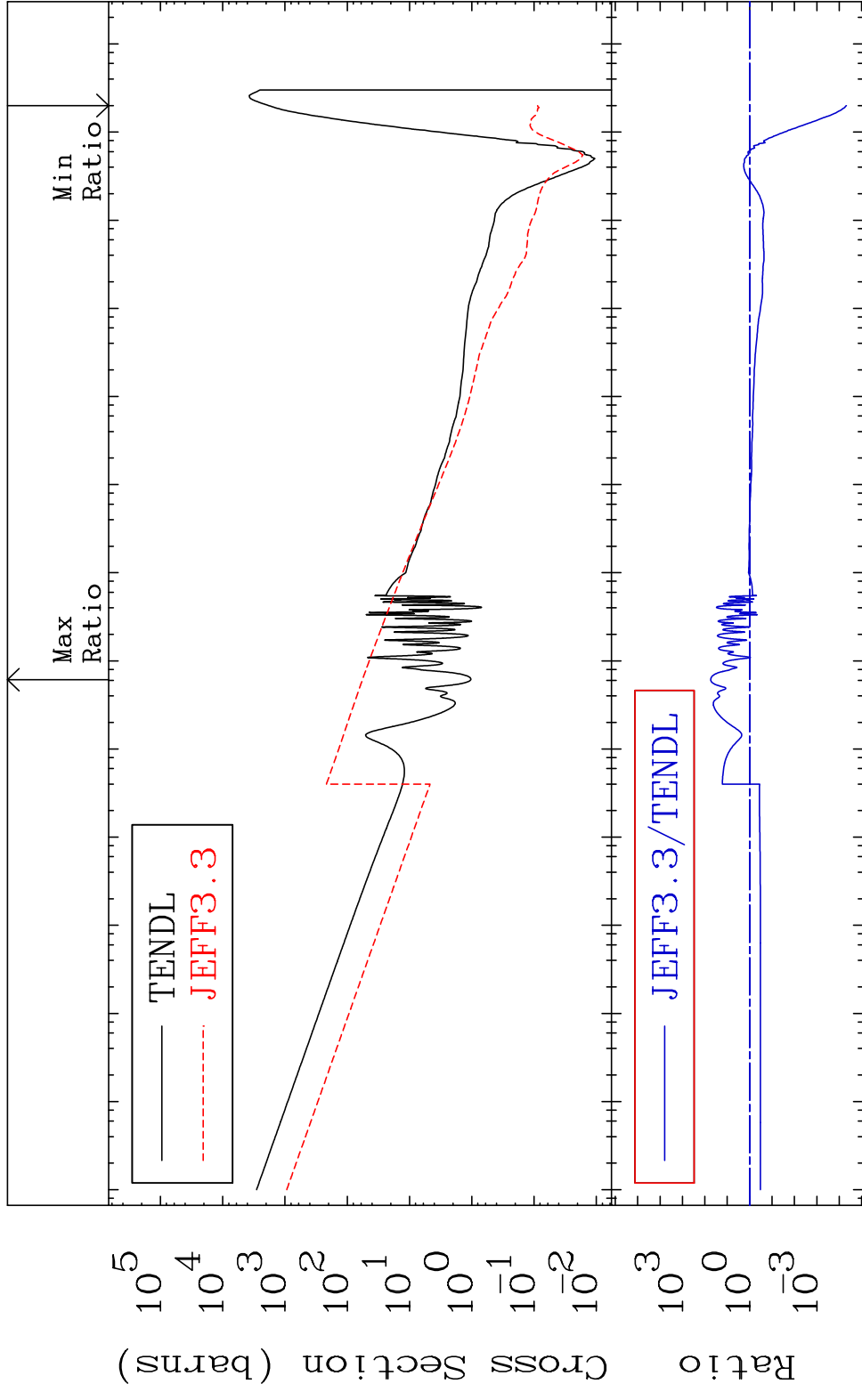
MAT 9352 Dpa inelastic (mt51-91) 93-Np-239
 Cross Section -56.34 To 9999. %



MAT 9352 Dpa disappearance (mt102 -120) 93-Np-239
 Cross Section 360.3 To 9999. %



MAT 9352 Dpa disappearance (mt102 -120) 93-Np-239
 Cross Section -100.0 To 5378. %



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

45 Incident Energy (eV) 93-Np-239