

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

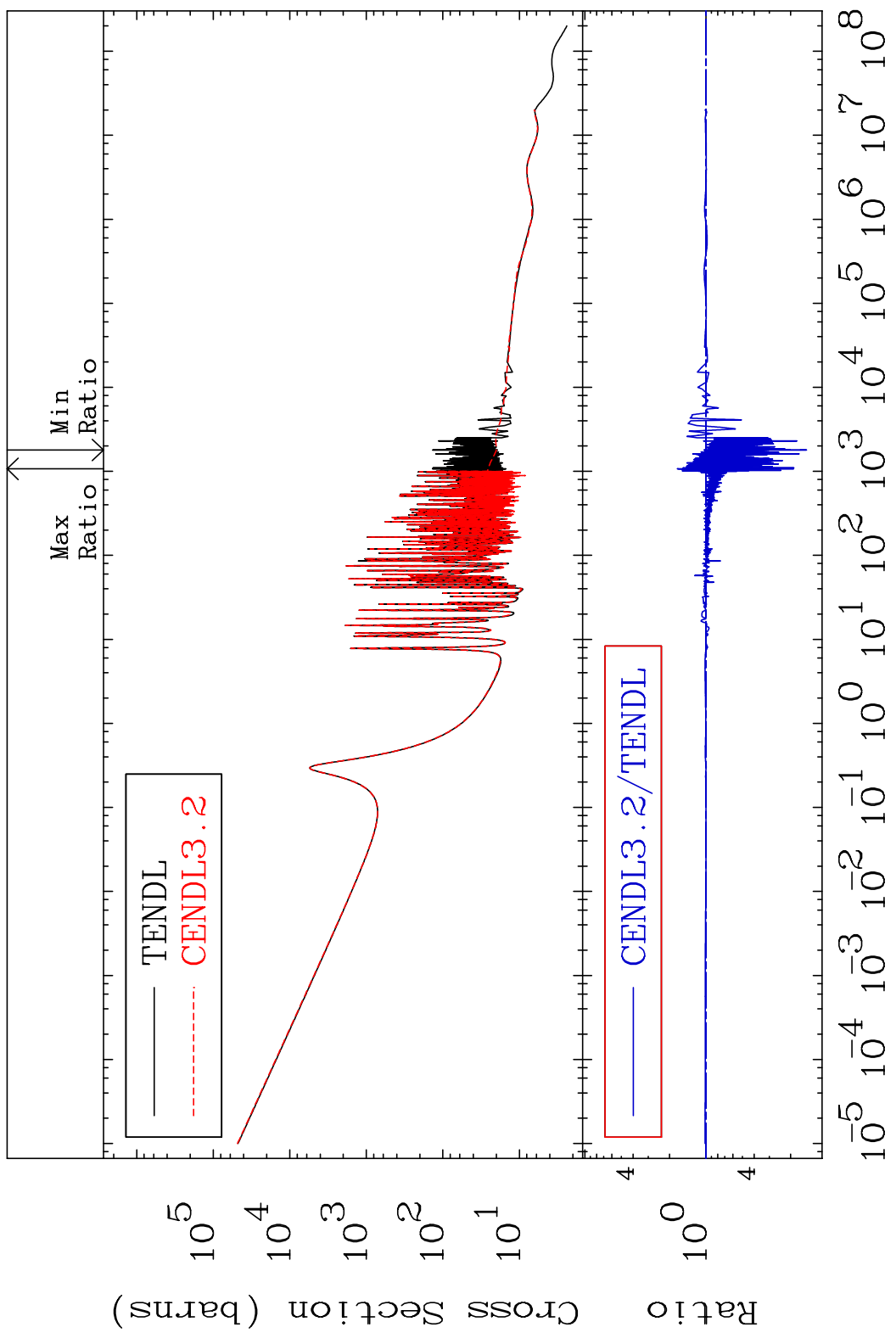
Press Mouse Button to Start

MAT 9437

Total

94-Pu-239

Cross Section -85.19 To 72.83 %



1

Incident Energy (eV)

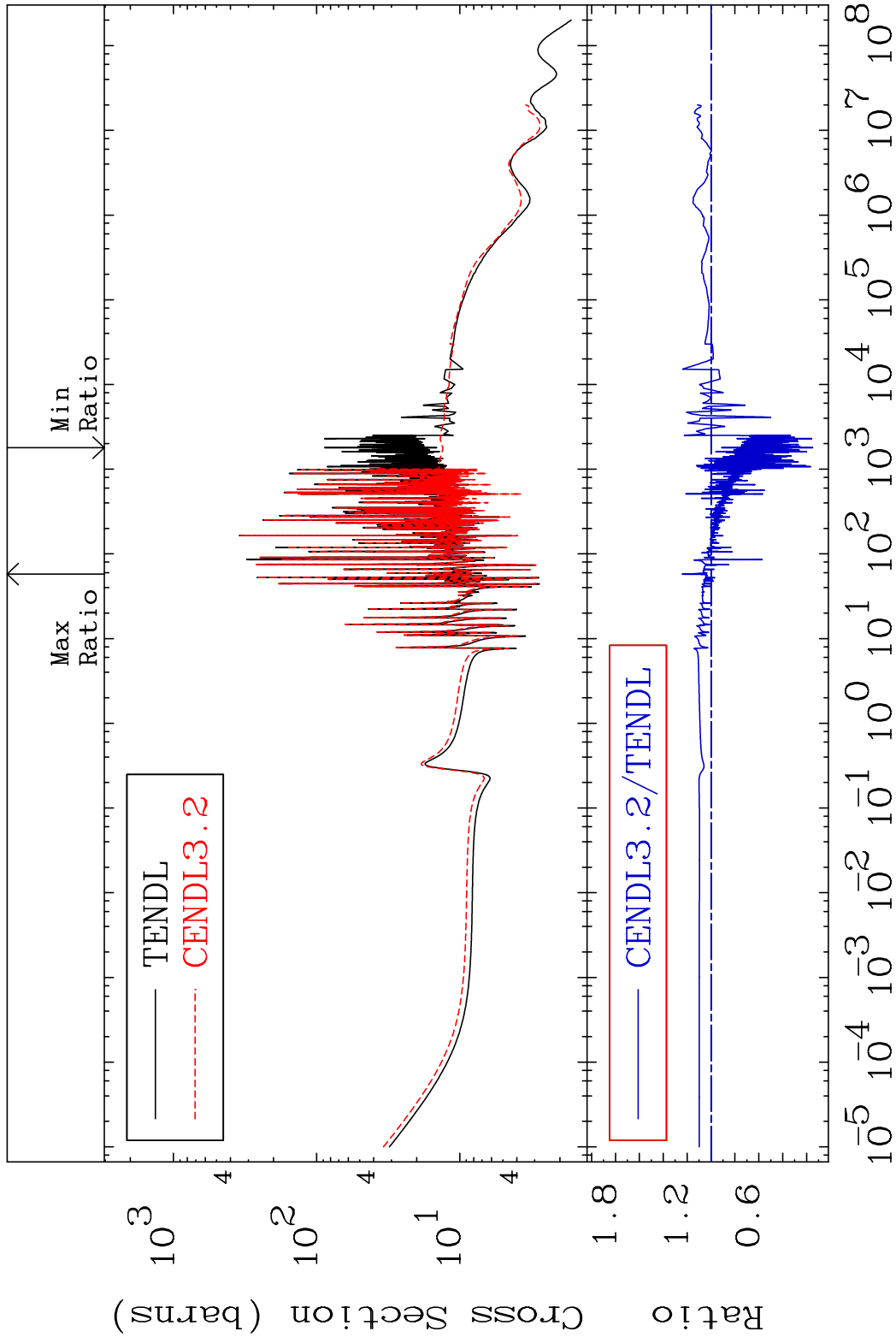
94-Pu-239

MAT 9437

Elastic

94-Pu-239

Cross Section -84.99 To 24.01 %



2

Incident Energy (eV)

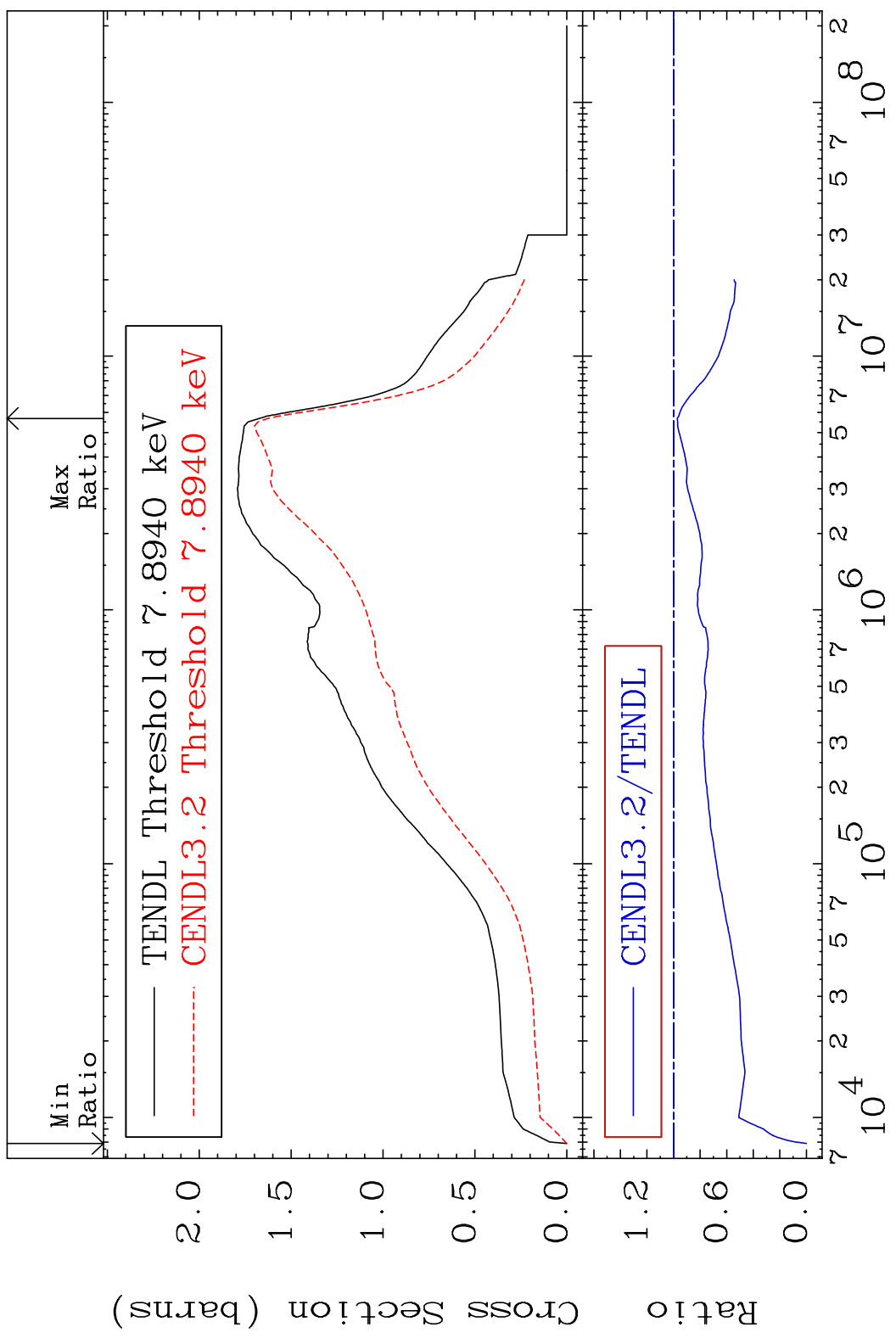
94-Pu-239

MAT 9437

Inelastic

94-Pu-239

Cross Section -100.0 To -2.745%



3

Incident Energy (eV)

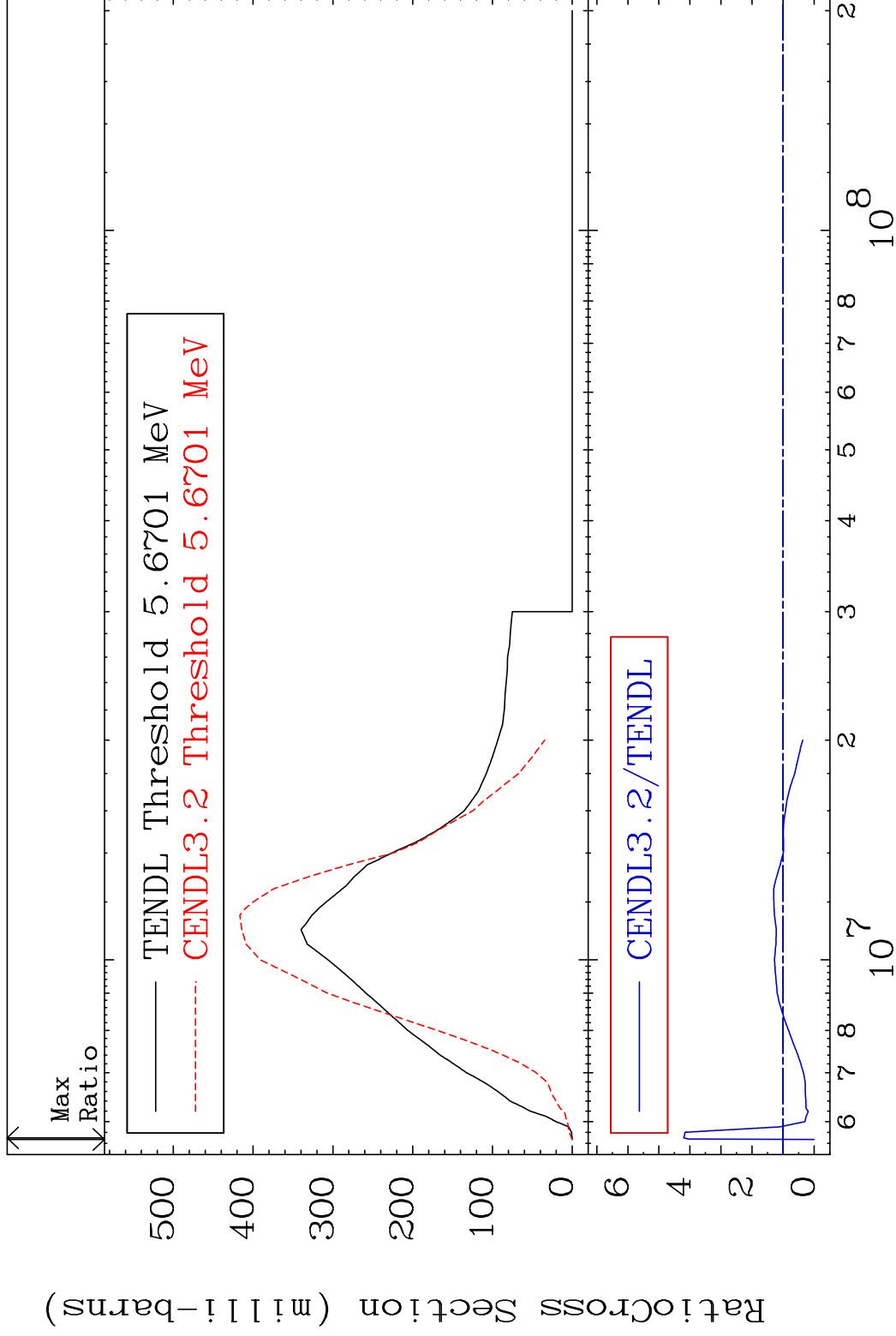
94-Pu-239

MAT 9437

(n,2n)

94-Pu-239

Cross Section -100.0 To 320.2 %



4

Incident Energy (eV)

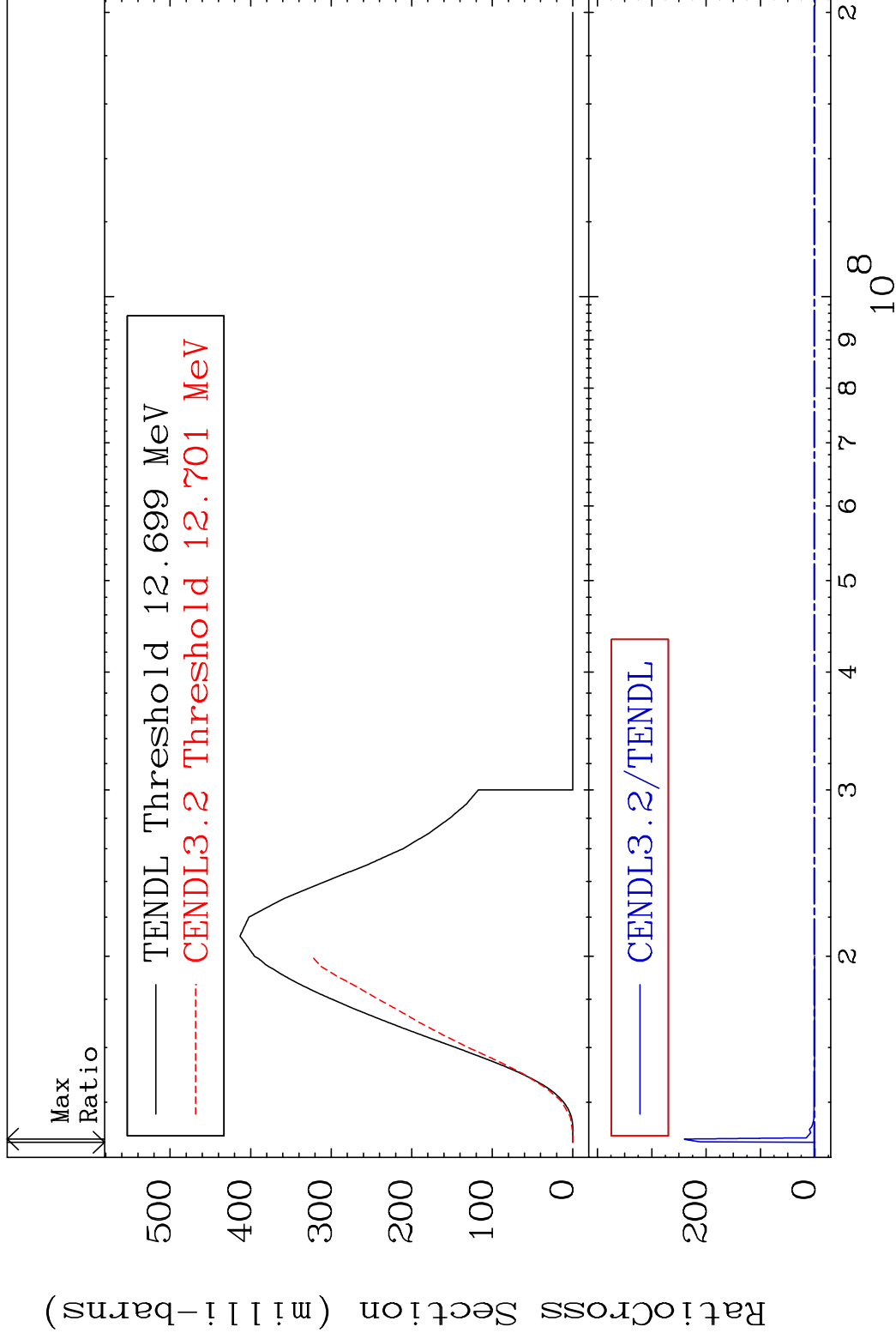
94-Pu-239

MAT 9437

(n,3n)

94-Pu-239

Cross Section -100.0 To 9999. %



5

Incident Energy (eV)

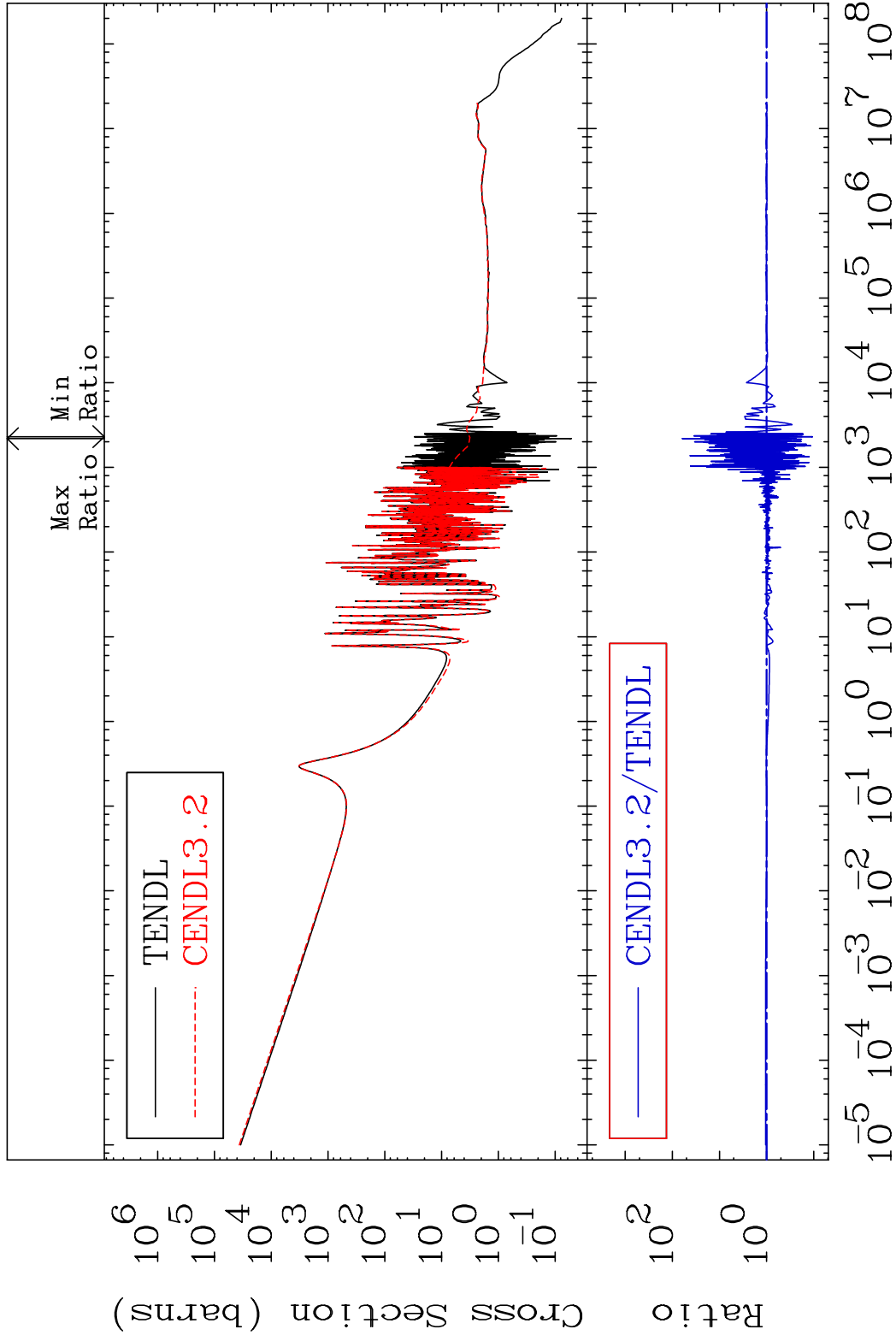
94-Pu-239

MAT 9437

Fission

94-Pu-239

Cross Section -89.39 To 6041. %



6

Incident Energy (eV)

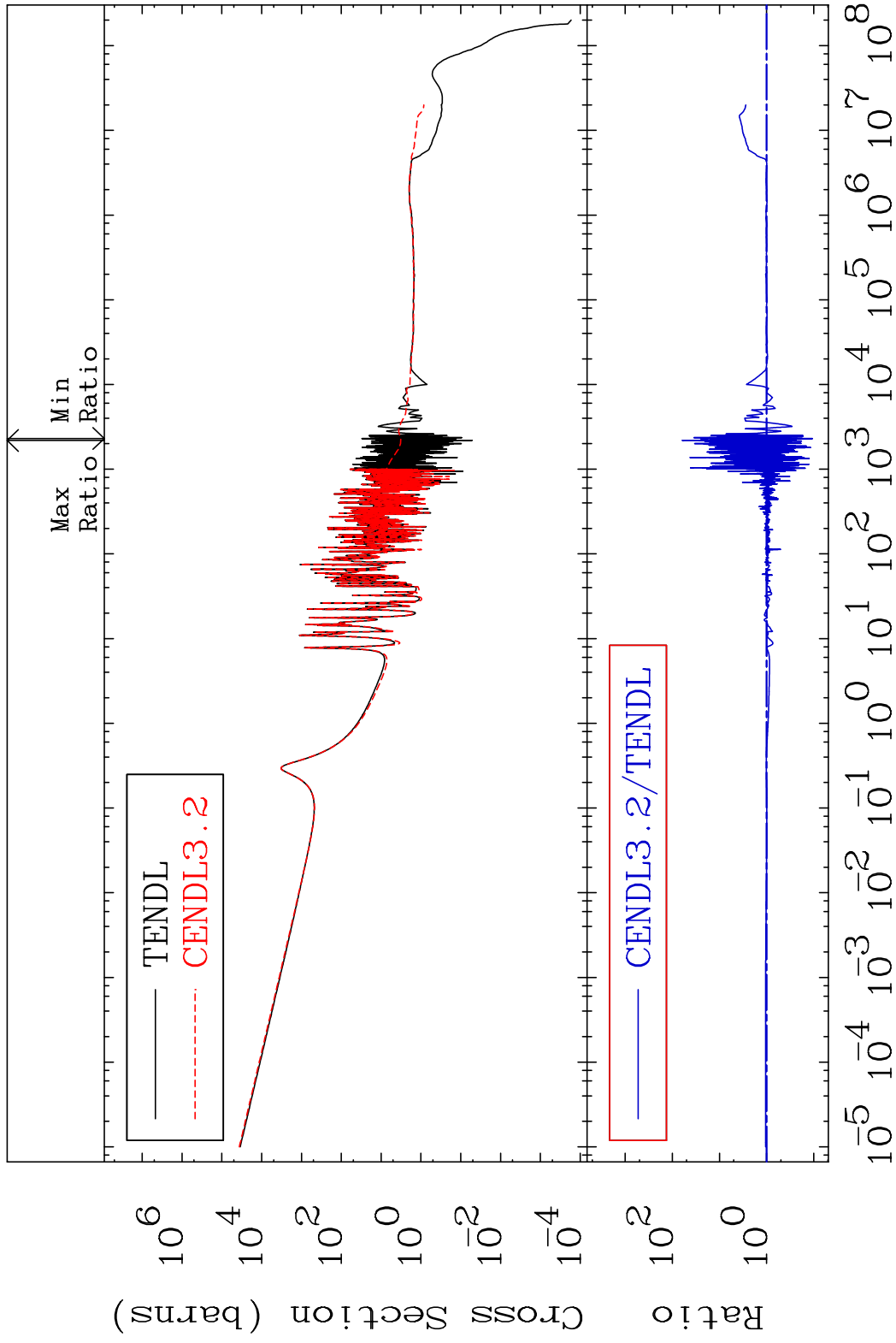
94-Pu-239

MAT 9437

(n,f) First Chance

94-Pu-239

Cross Section -89.39 To 6041. %



7

Incident Energy (eV)

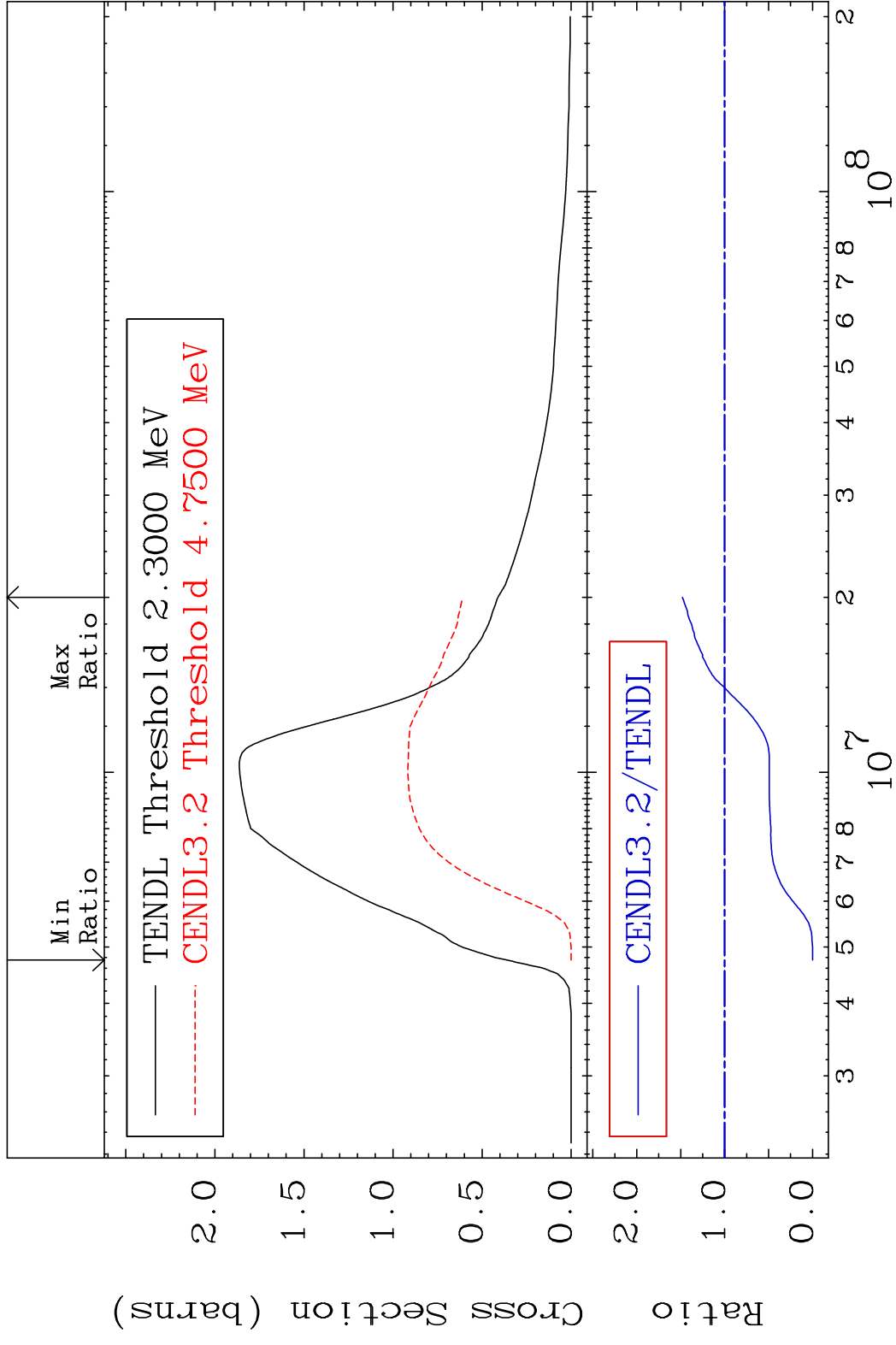
94-Pu-239

MAT 9437

(n, nf) Second Chance

94-Pu-239

Cross Section -100.0 To 48.15 %

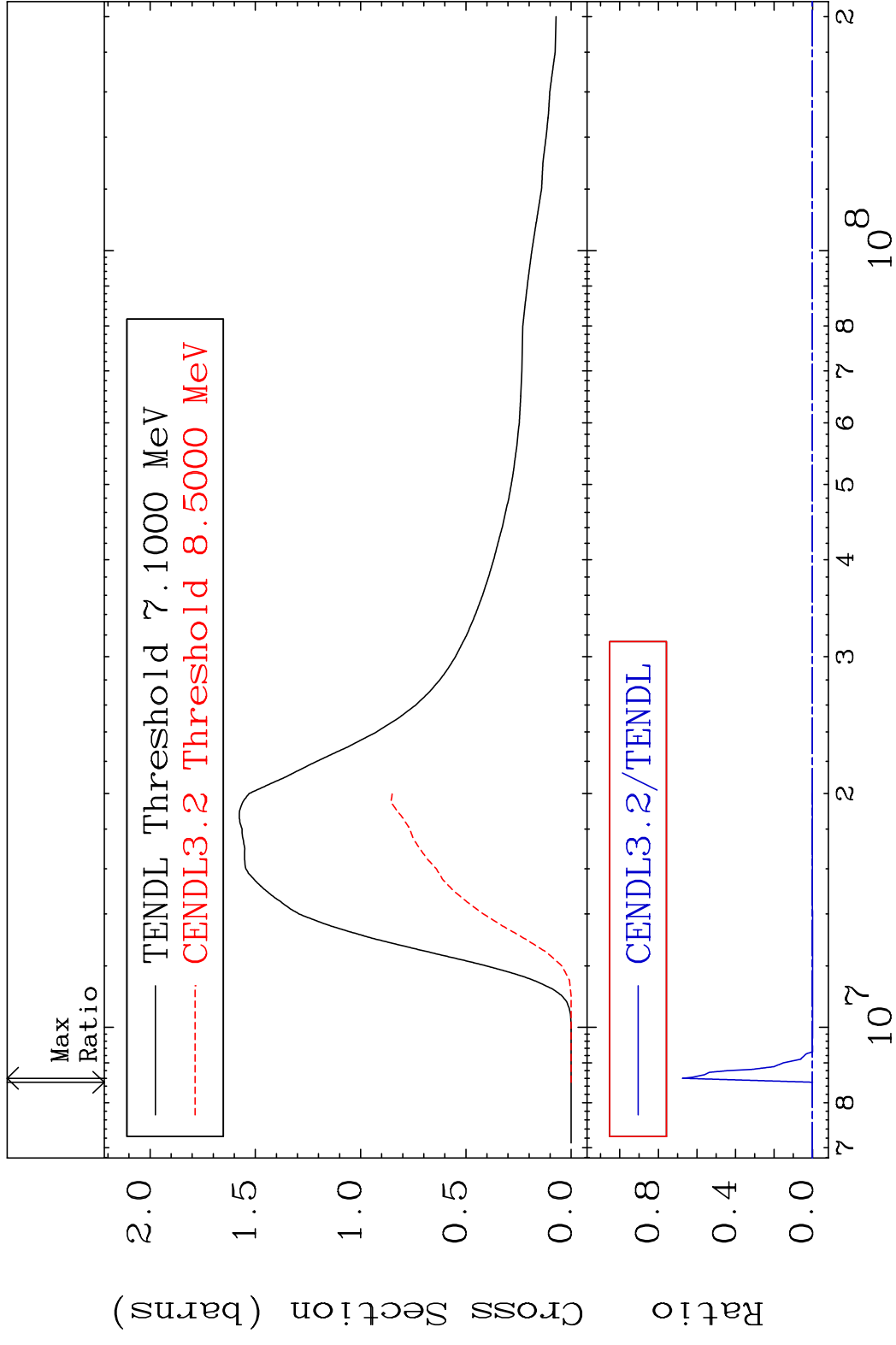


8

Incident Energy (eV)

94-Pu-239

MAT 9437 (n,2nf) Third Chance 94-Pu-239  
 Cross Section -100.0 To 9999. %

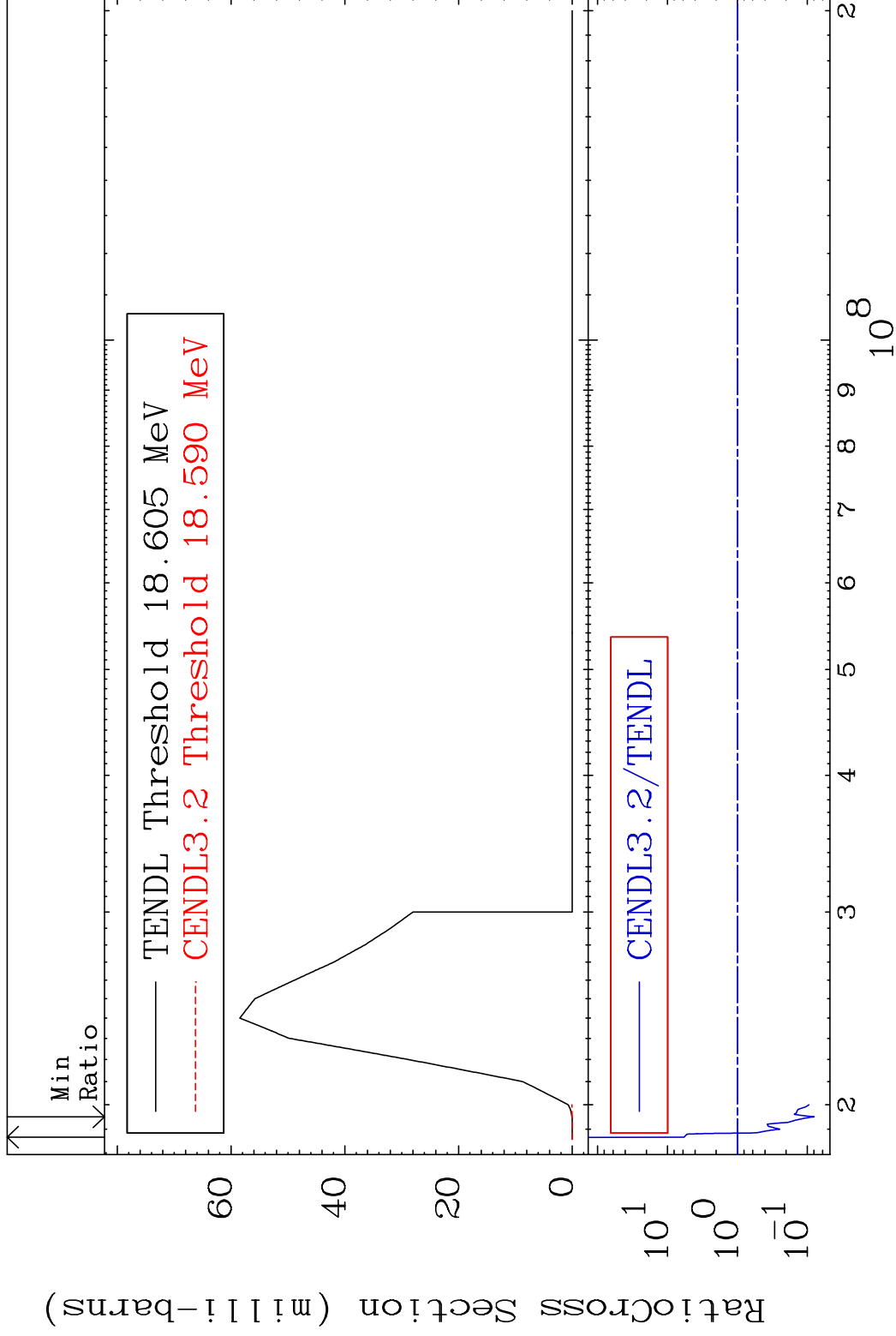


MAT 9437

(n, 4n)

94-Pu-239

Cross Section -92.03 To 485.1 %

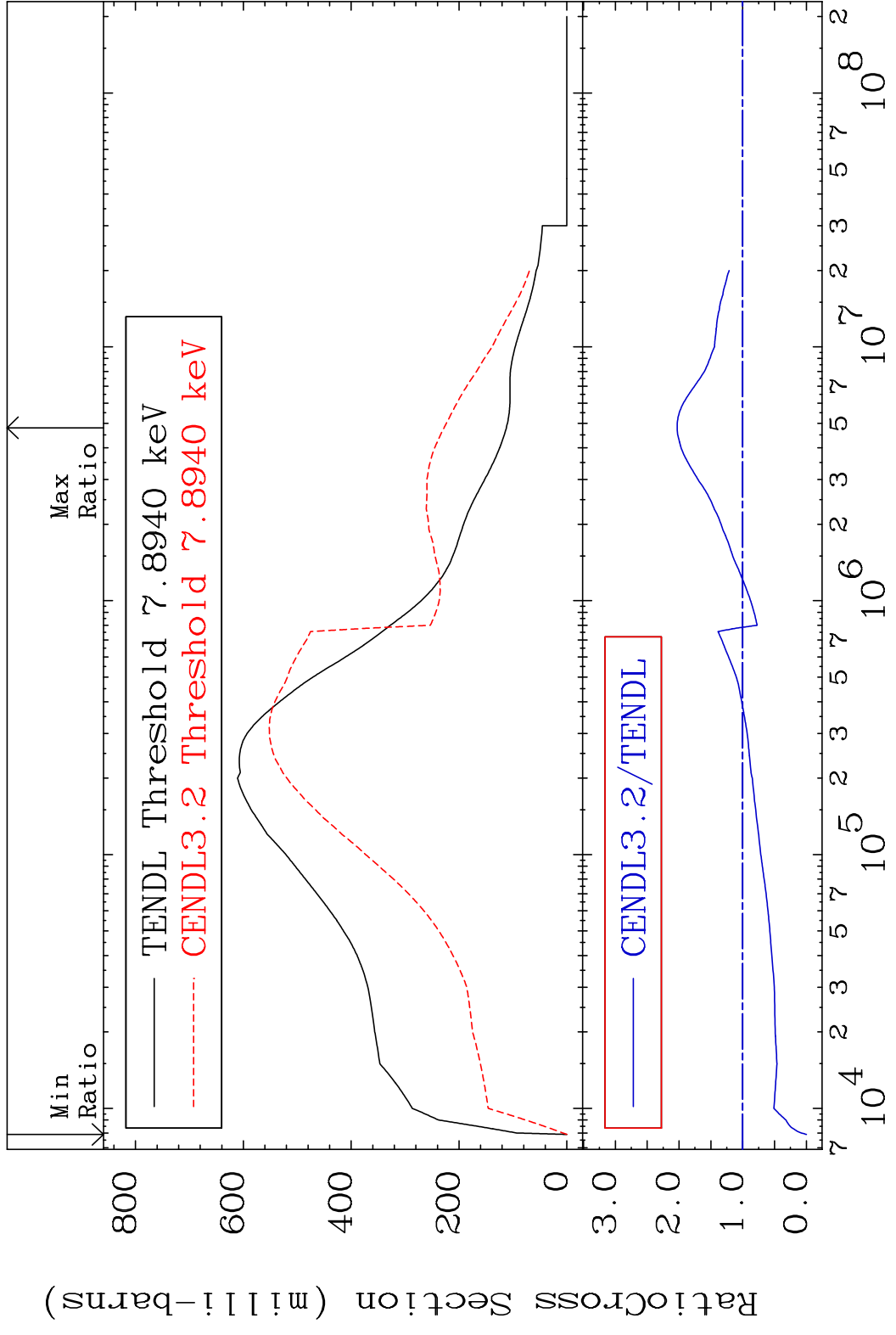


10

Incident Energy (eV)

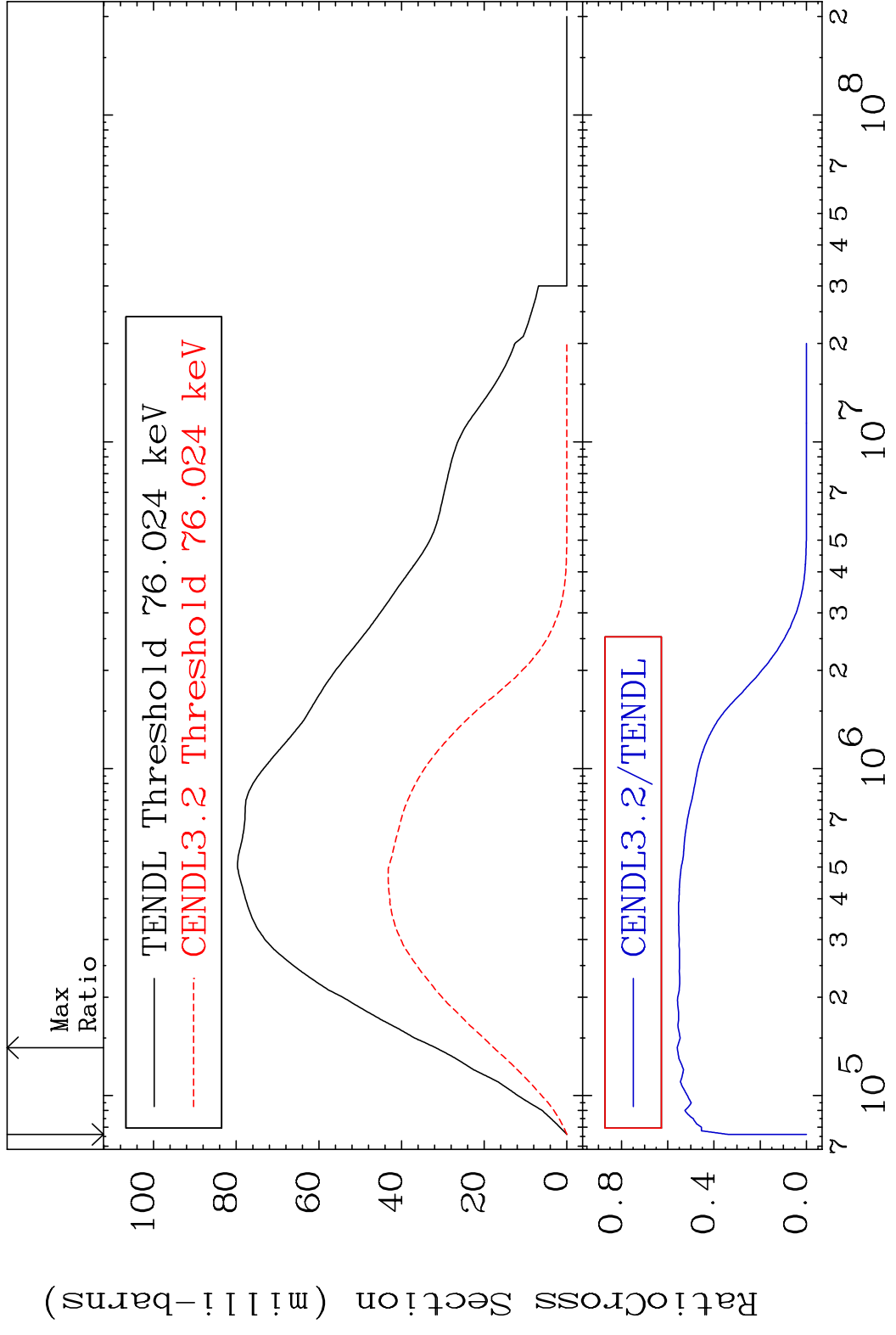
94-Pu-239

MAT 9437 MT= 51 (n, n') Level 94-Pu-239  
 Cross Section -100.0 To 102.9 %

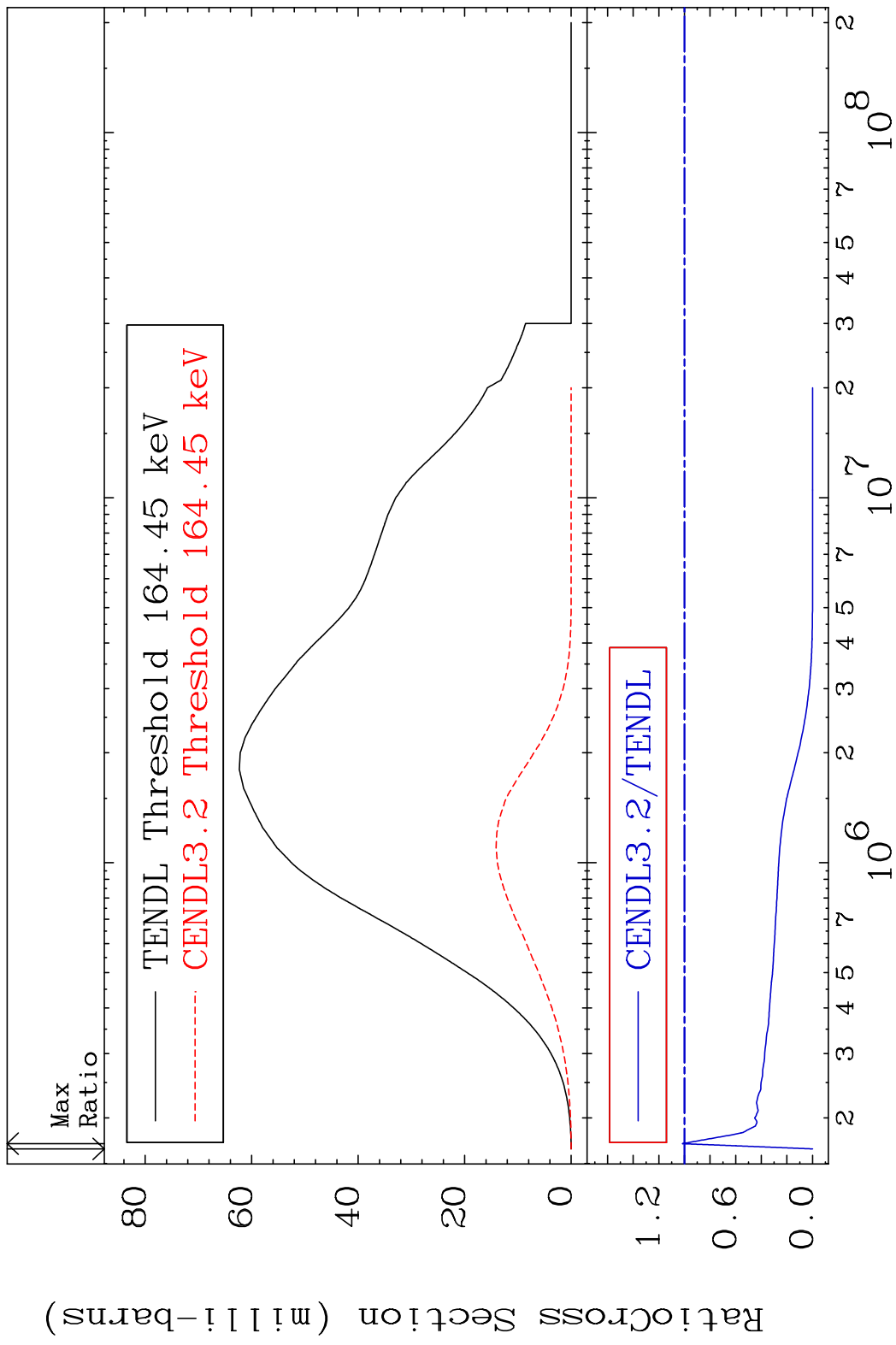




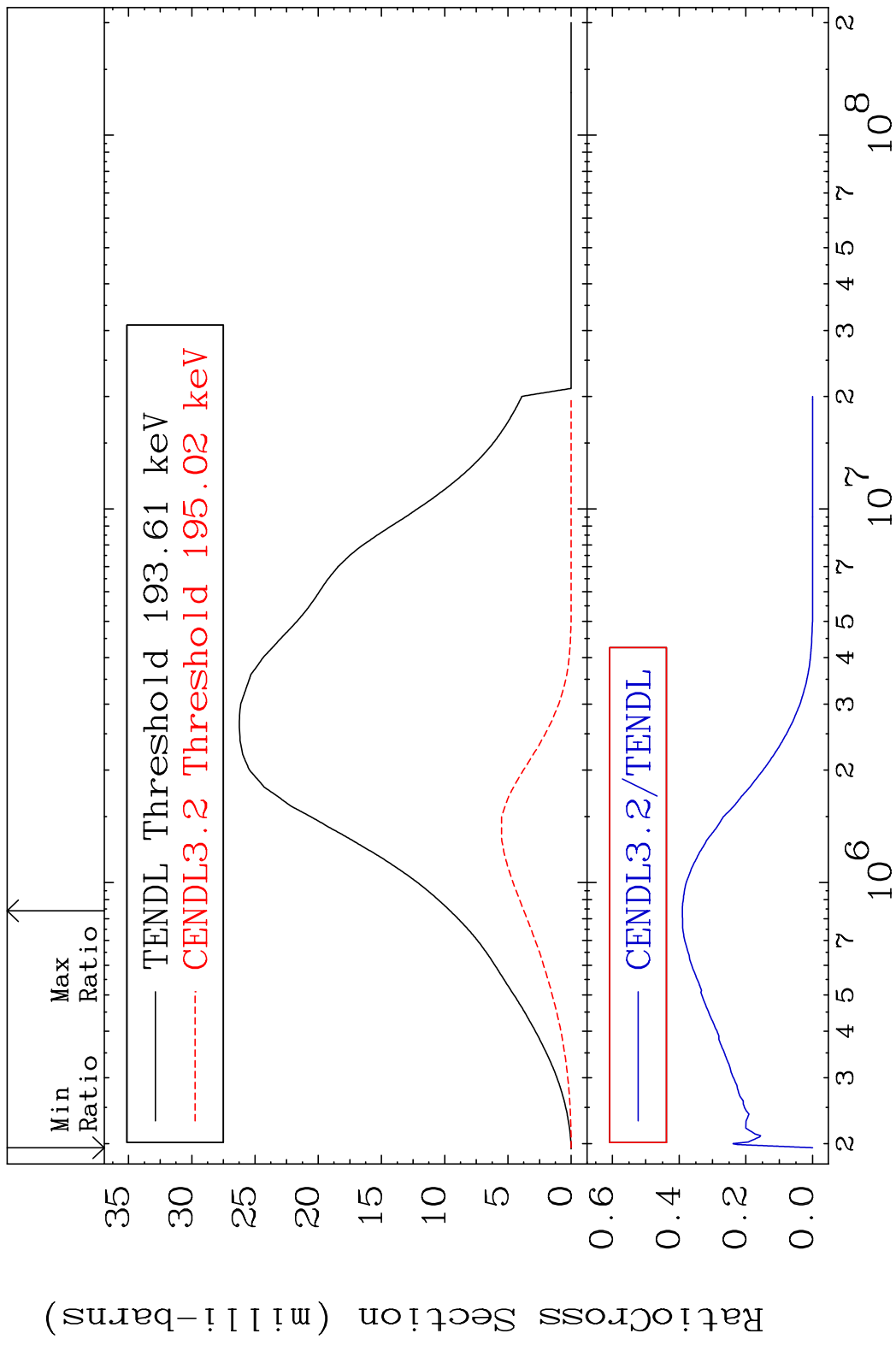
MAT 9437 MT= 53 (n, n') Level 94-Pu-239  
 Cross Section -100.0 To -44.09%



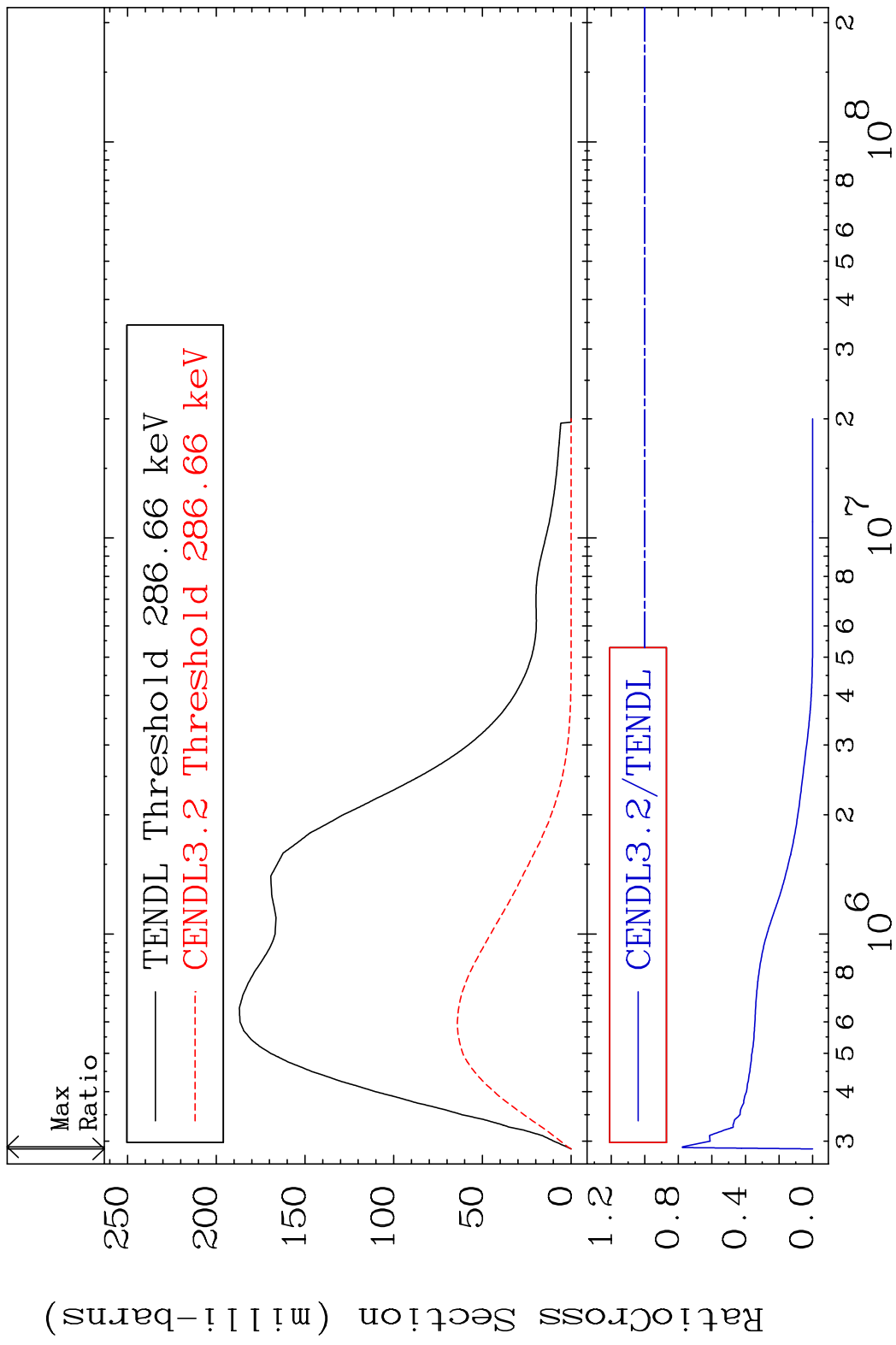
MAT 9437 MT= 54 (n, n') Level 94-Pu-239  
 Cross Section -100.0 To 1.638 %



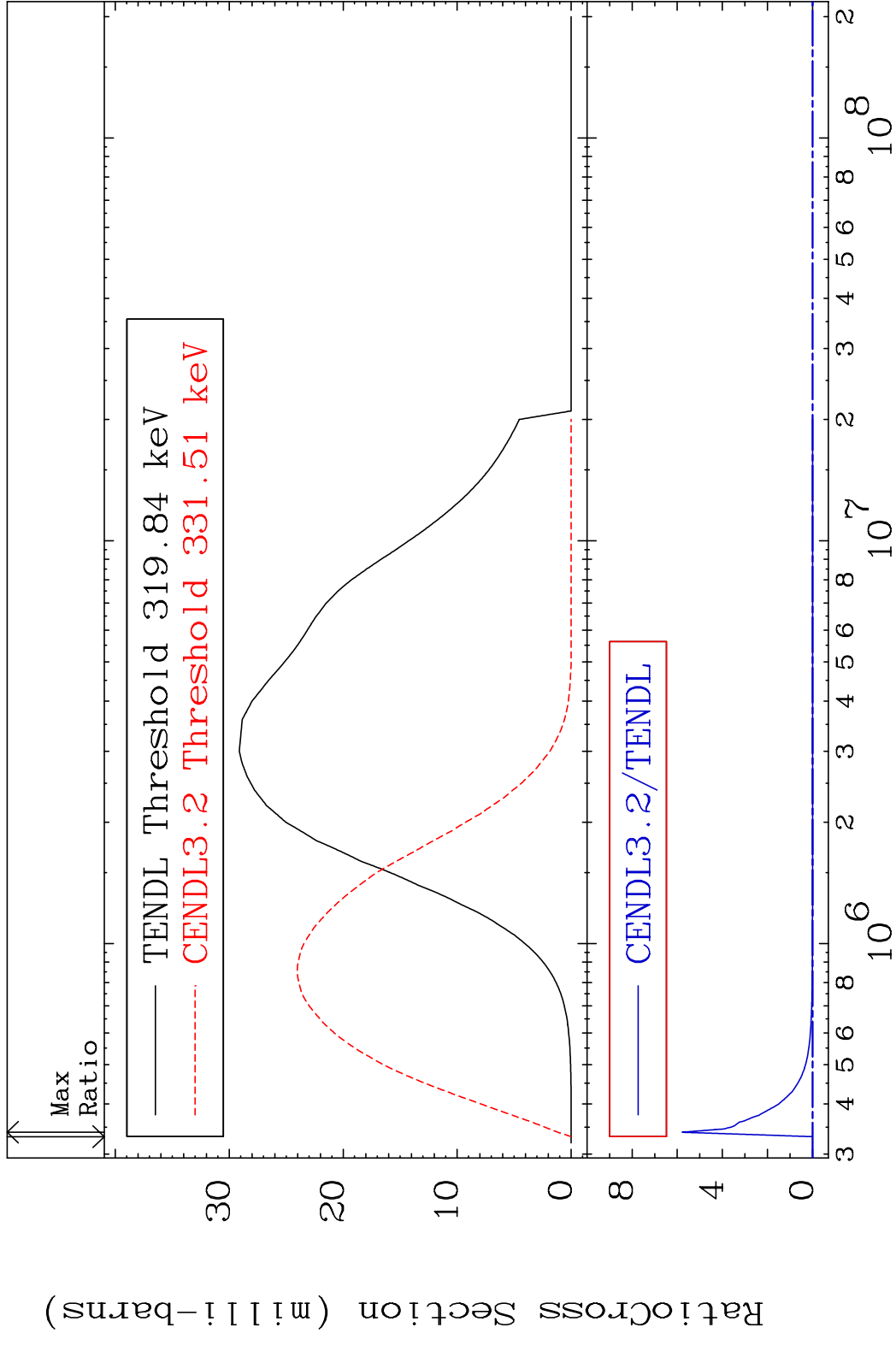
MAT 9437 MT= 55 (n,n') Level 94-Pu-239  
 Cross Section -100.0 To -60.97%



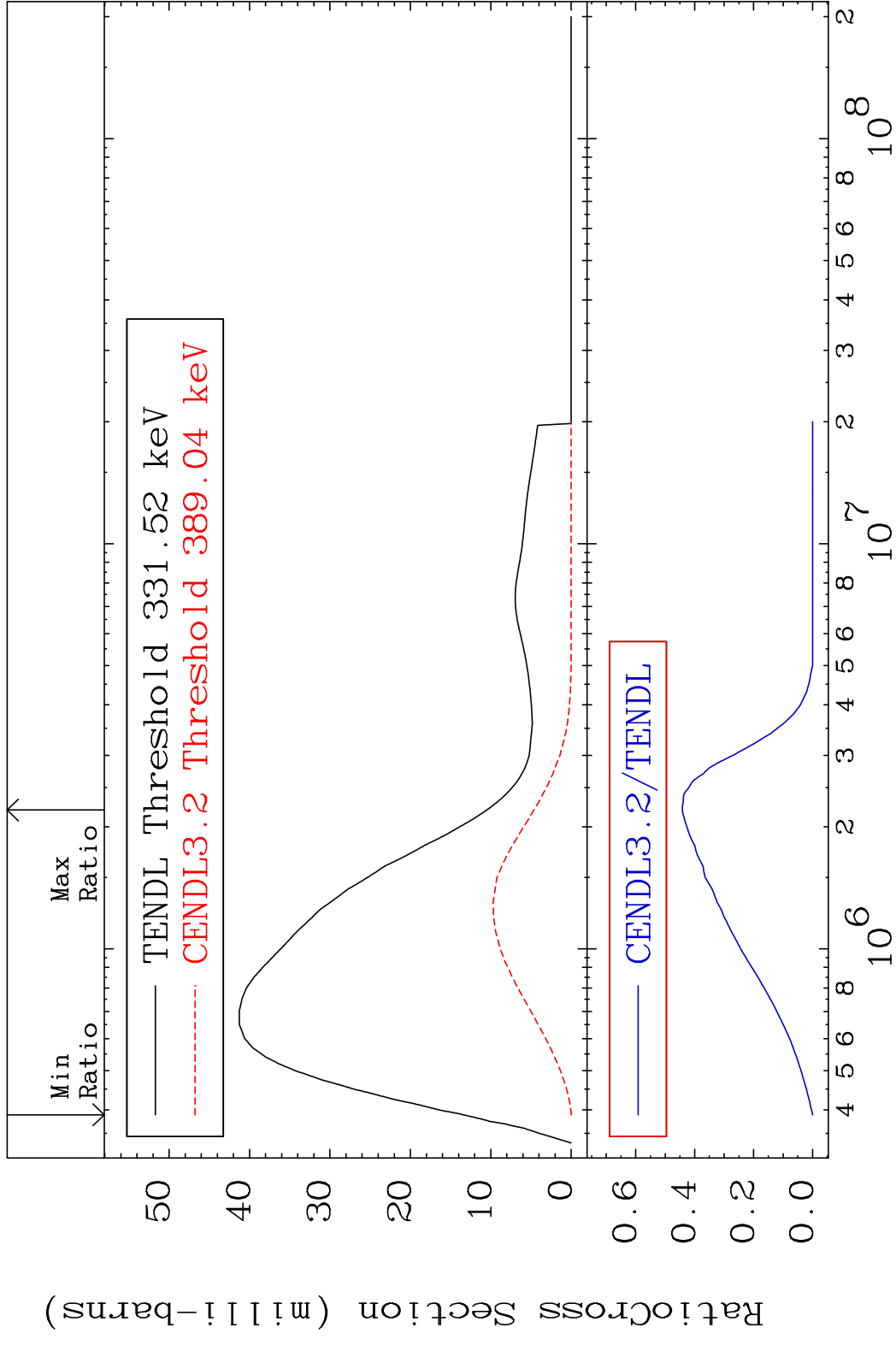
MAT 9437 MT= 56 (n,n') Level 94-Pu-239  
 Cross Section -100.0 To -22.39%



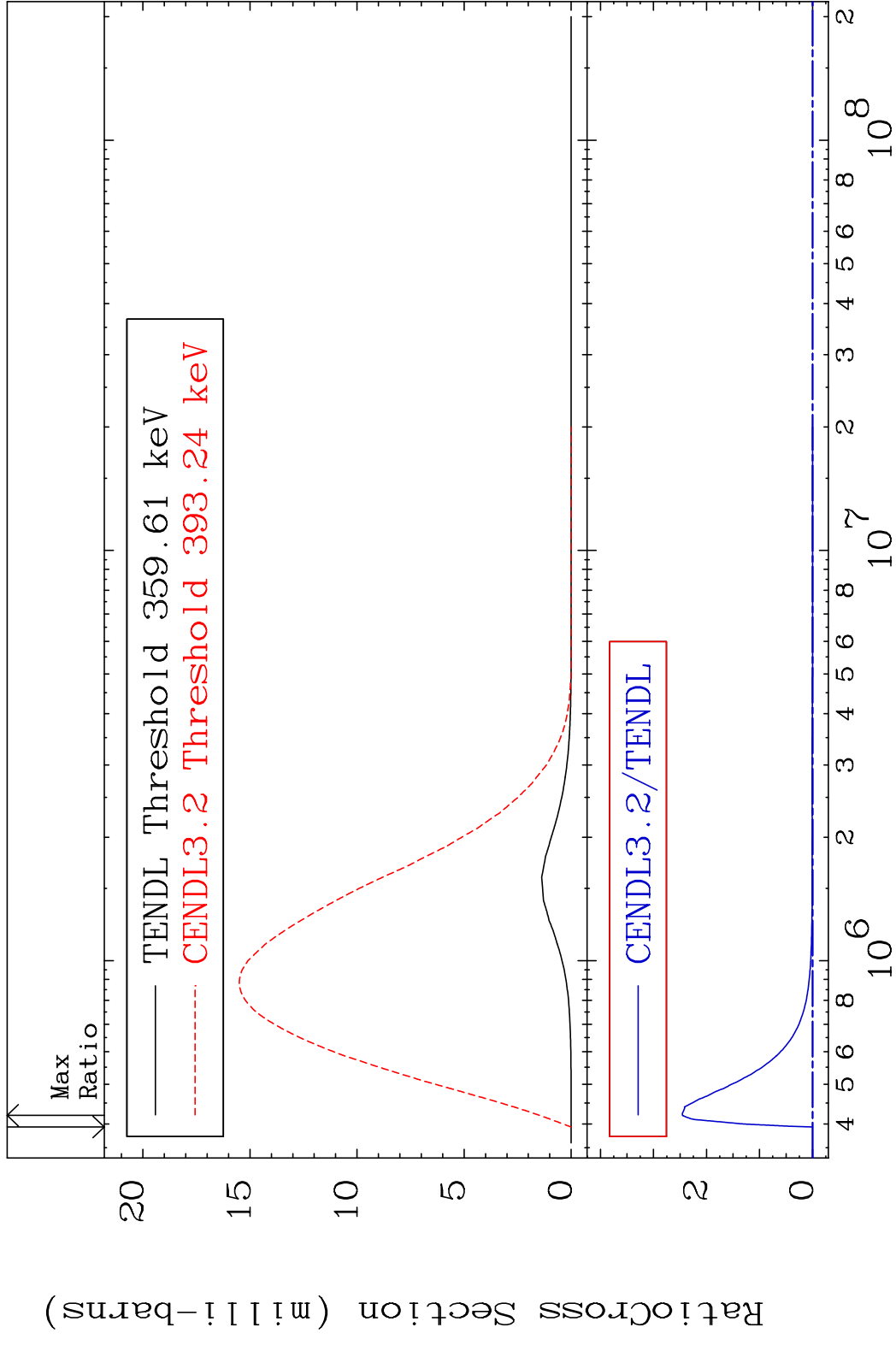
MAT 9437 MT= 57 (n,n') Level 94-Pu-239  
 Cross Section -100.0 To 9999. %



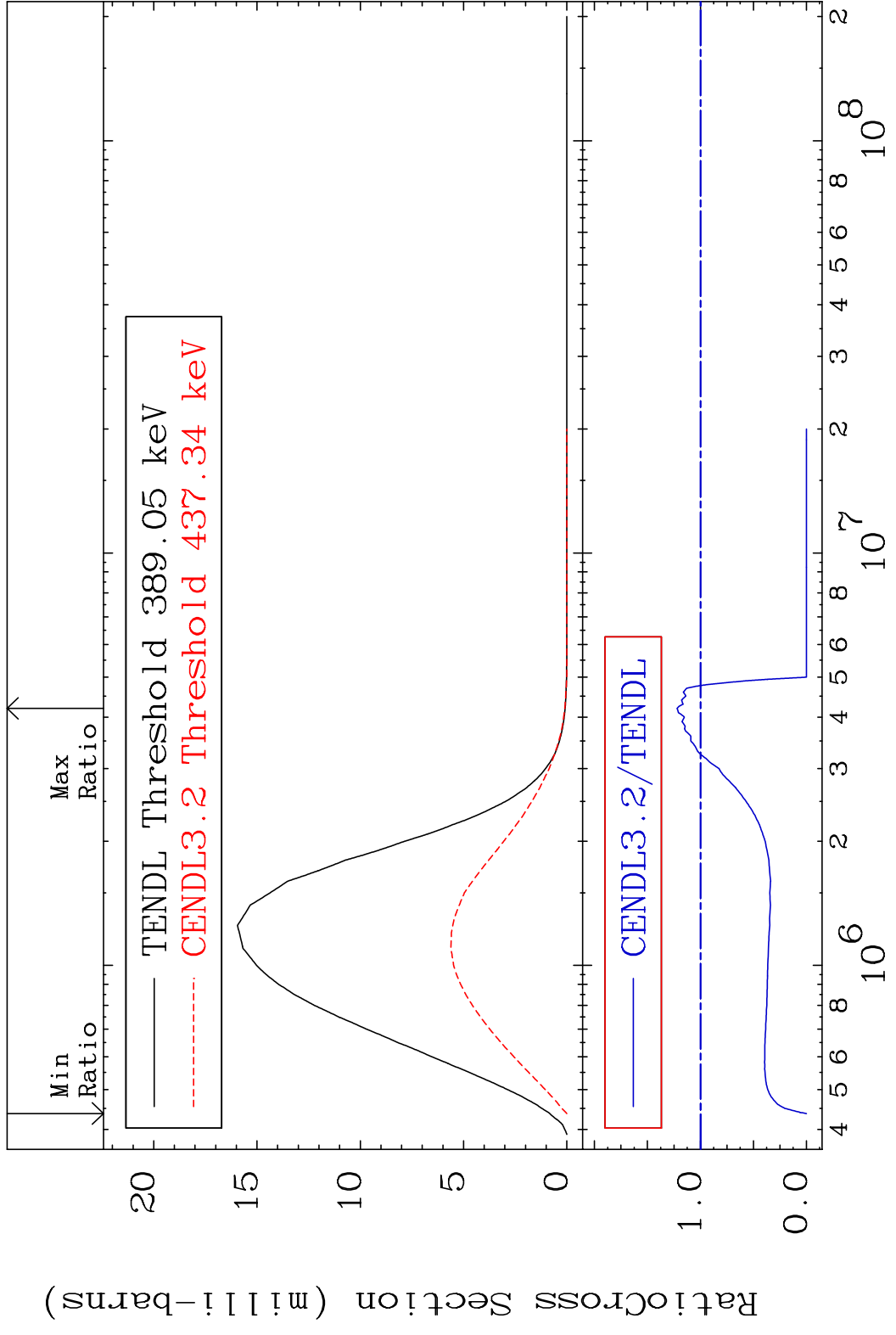
MAT 9437 MT= 58 (n,n') Level 94-Pu-239  
 Cross Section -100.0 To -55.82%



MAT 9437 MT= 59 (n, n') Level 94-Pu-239  
 Cross Section -100.0 To 9999. %

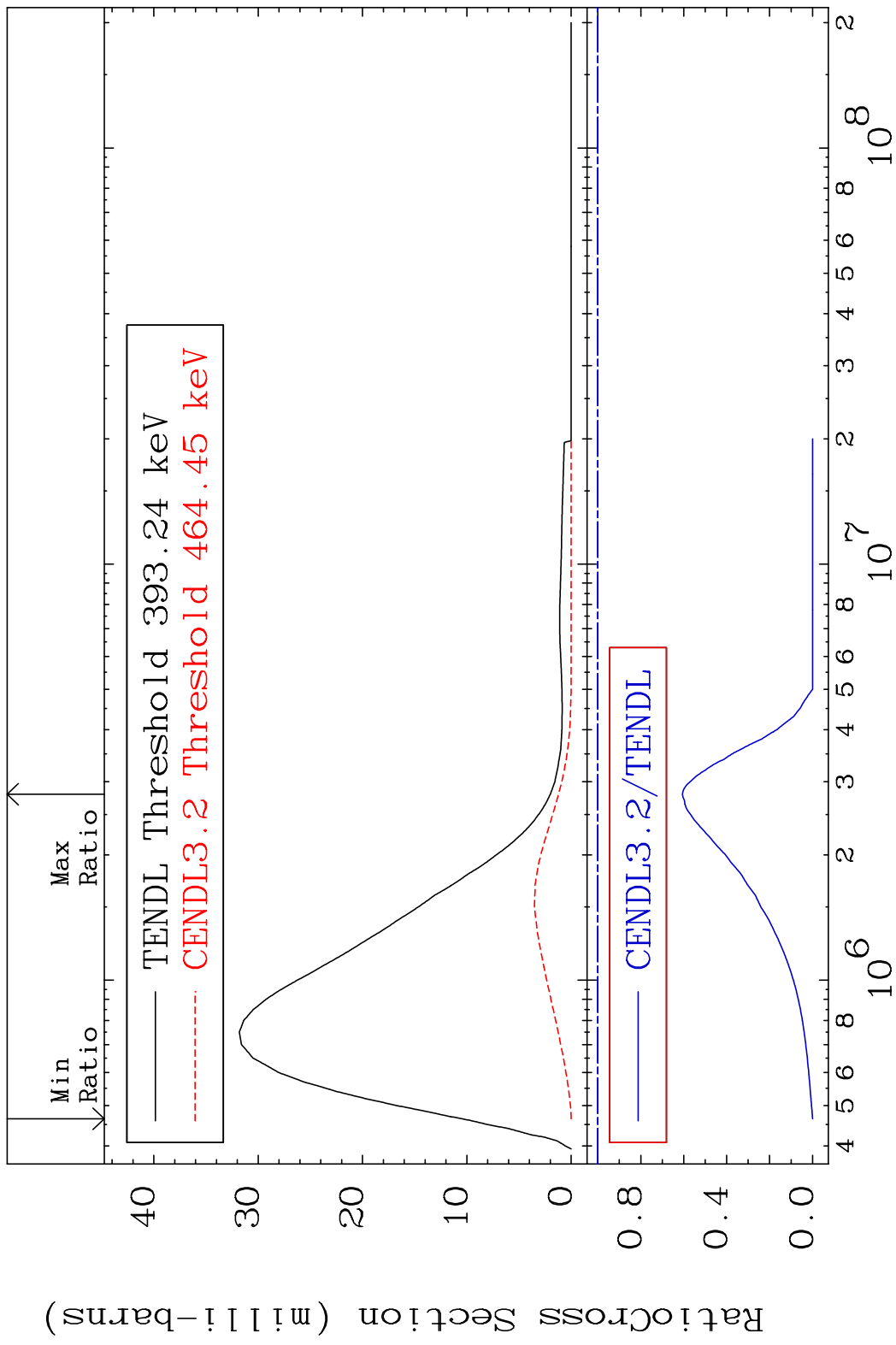


MAT 9437 MT= 60 (n, n') Level 94-Pu-239  
 Cross Section -100.0 To 21.94 %

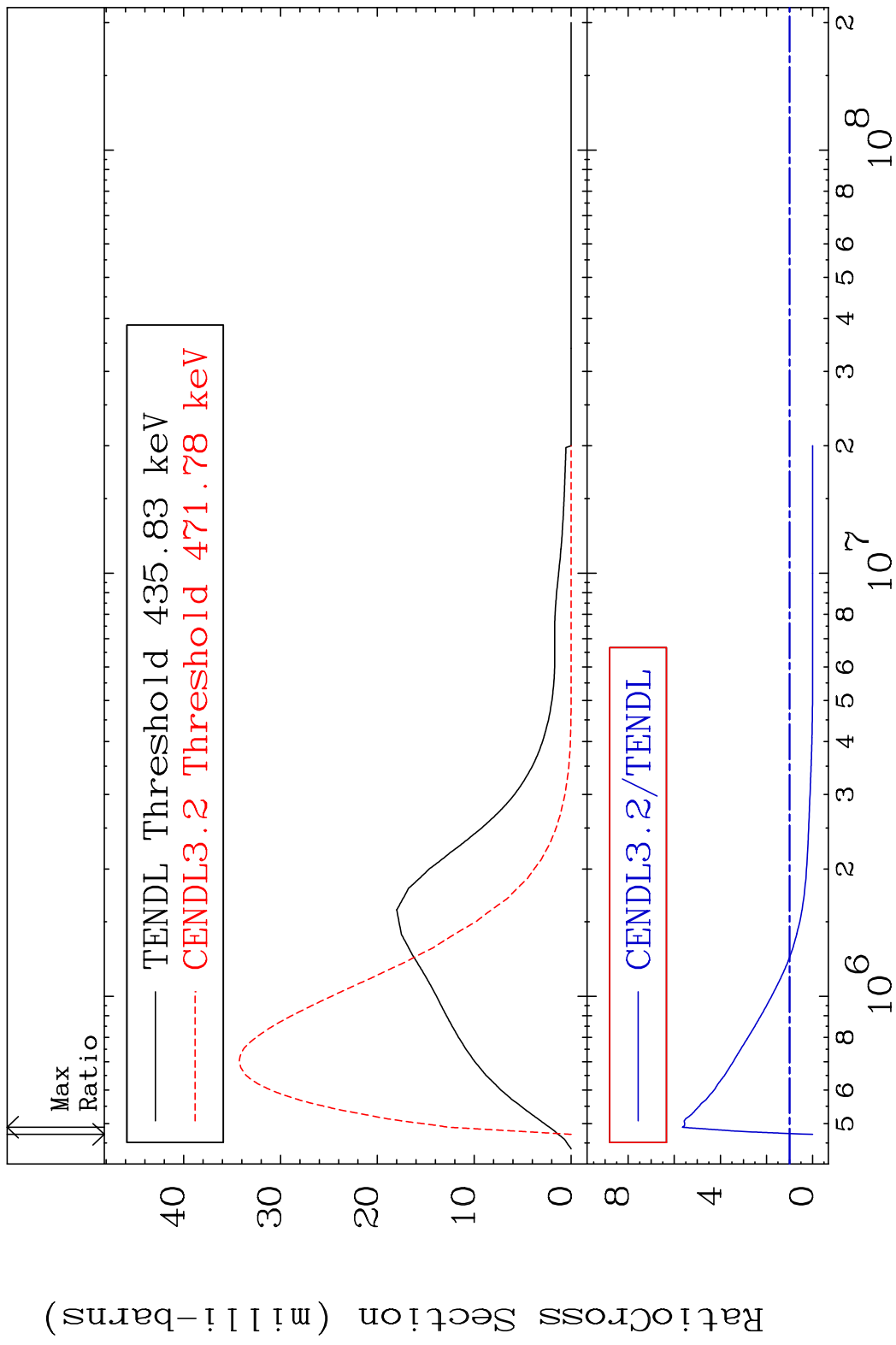


20 Incident Energy (eV) 94-Pu-239

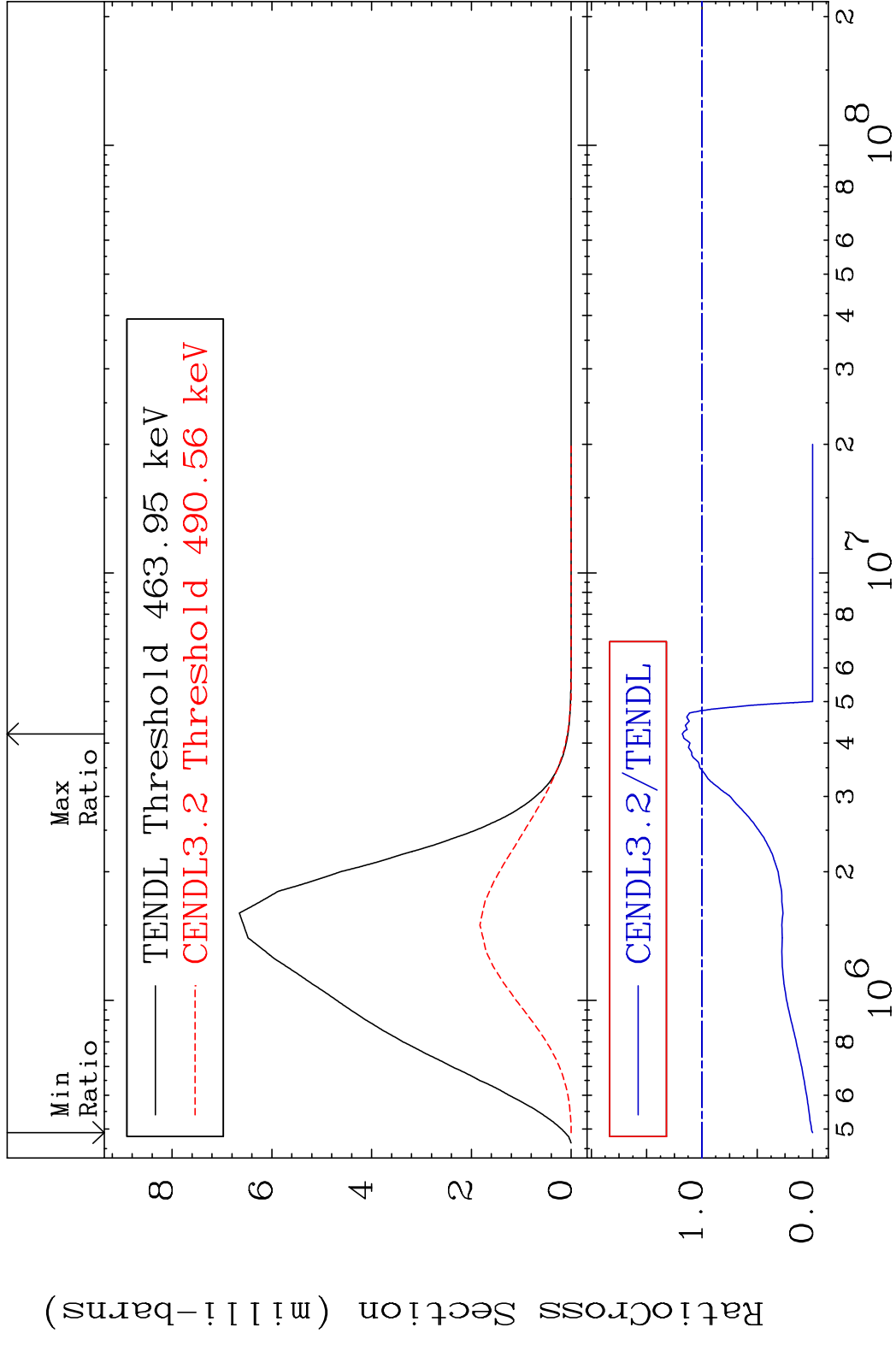
MAT 9437 MT= 61 (n, n') Level 94-Pu-239  
 Cross Section -100.0 To -39.37%



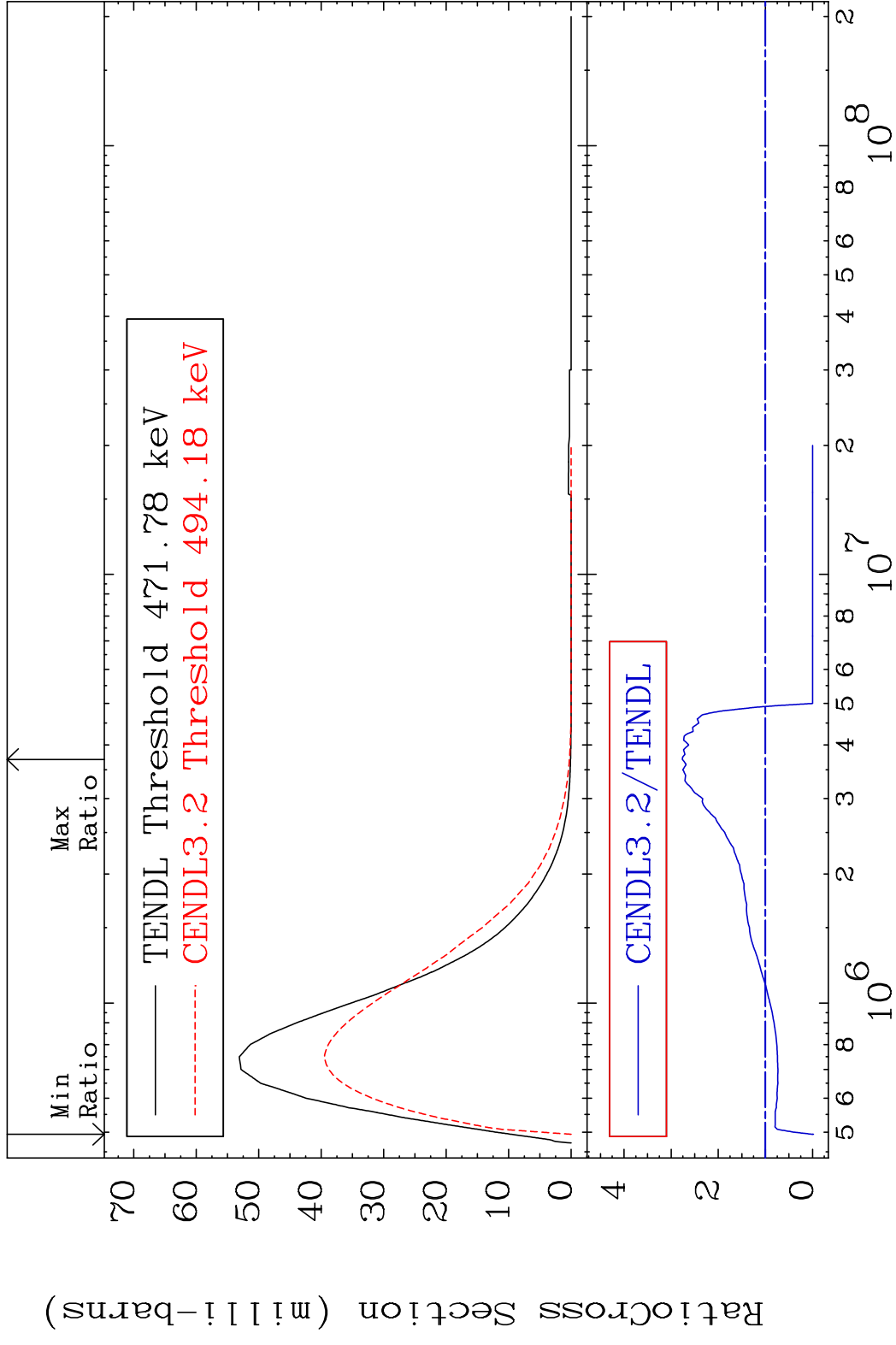
MAT 9437 MT= 62 (n, n') Level 94-Pu-239  
 Cross Section -100.0 To 465.0 %



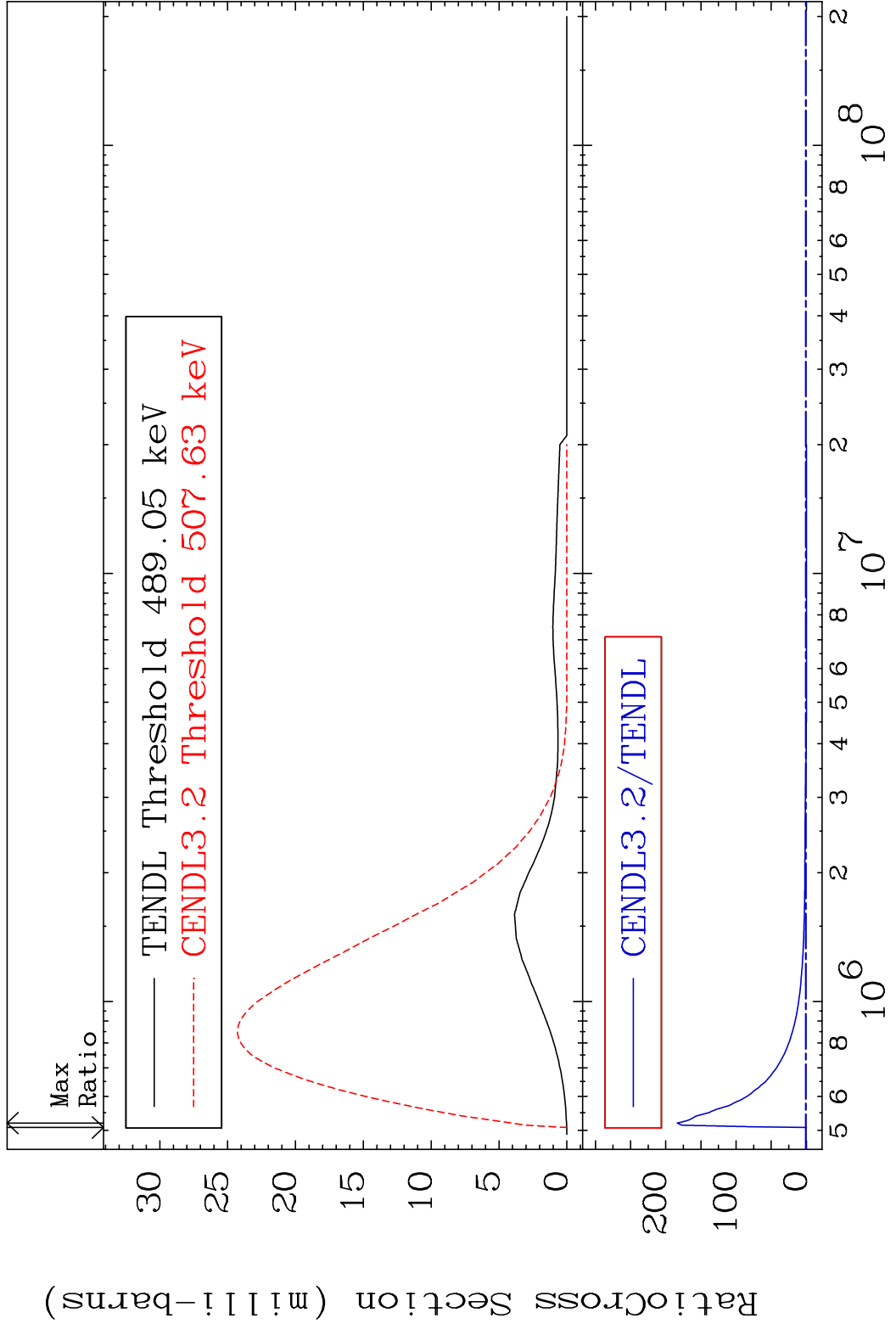
MAT 9437 MT= 63 (n, n') Level 94-Pu-239  
 Cross Section -100.0 To 17.73 %



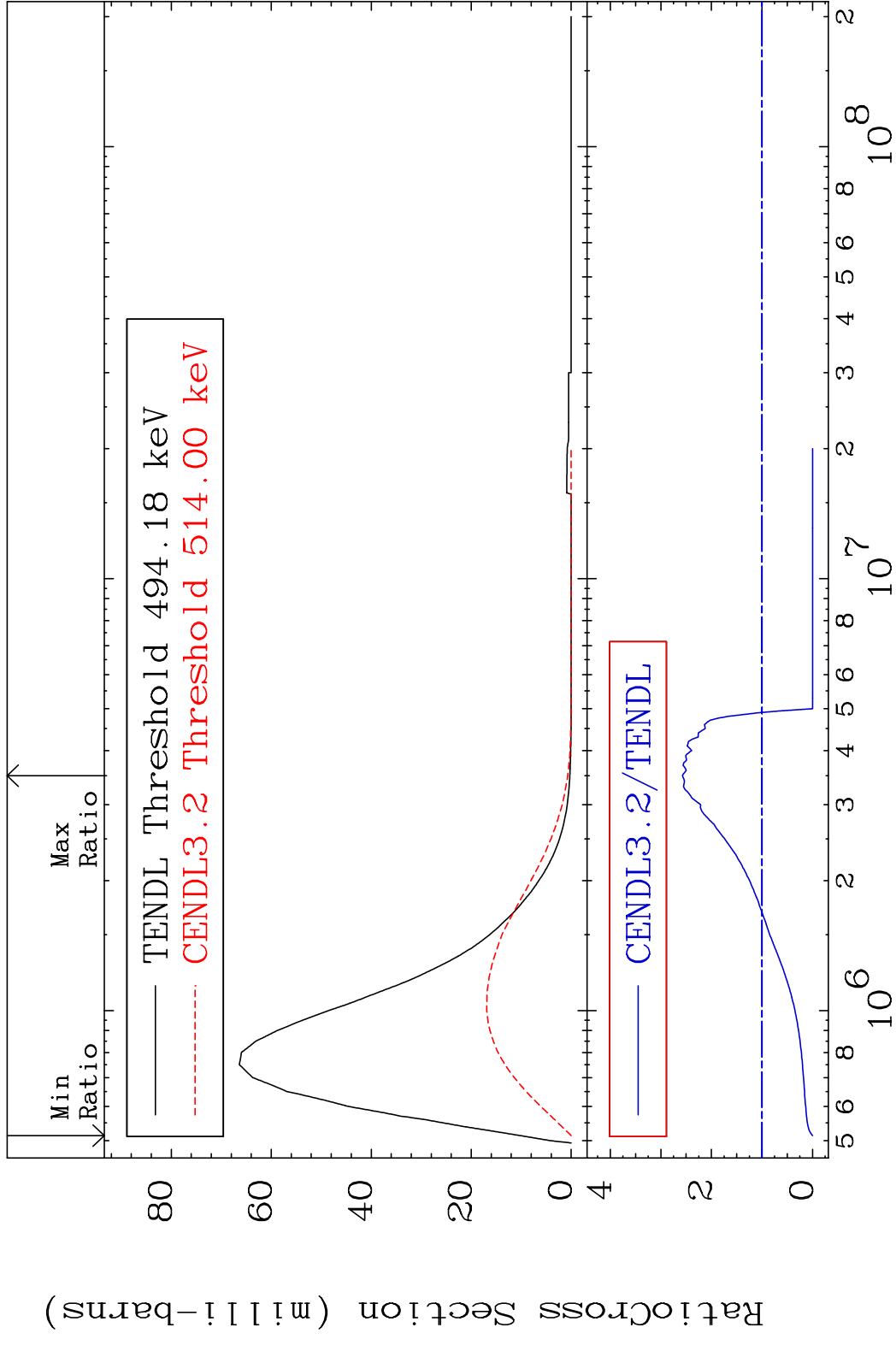
MAT 9437 MT= 64 (n, n') Level 94-Pu-239  
 Cross Section -100.0 To 176.2 %



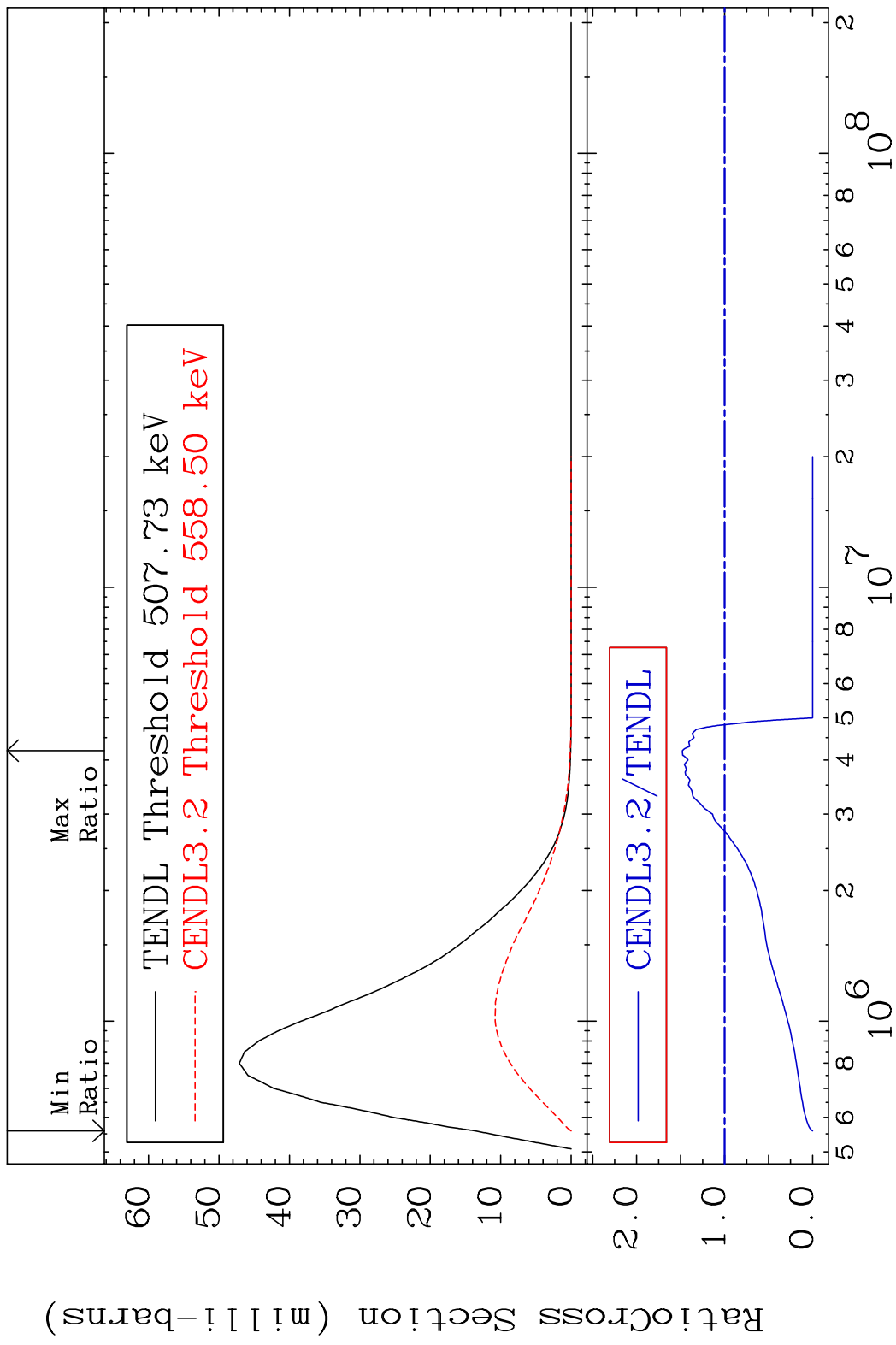
MAT 9437 MT= 65 (n,n') Level 94-Pu-239  
 Cross Section -100.0 To 9999. %



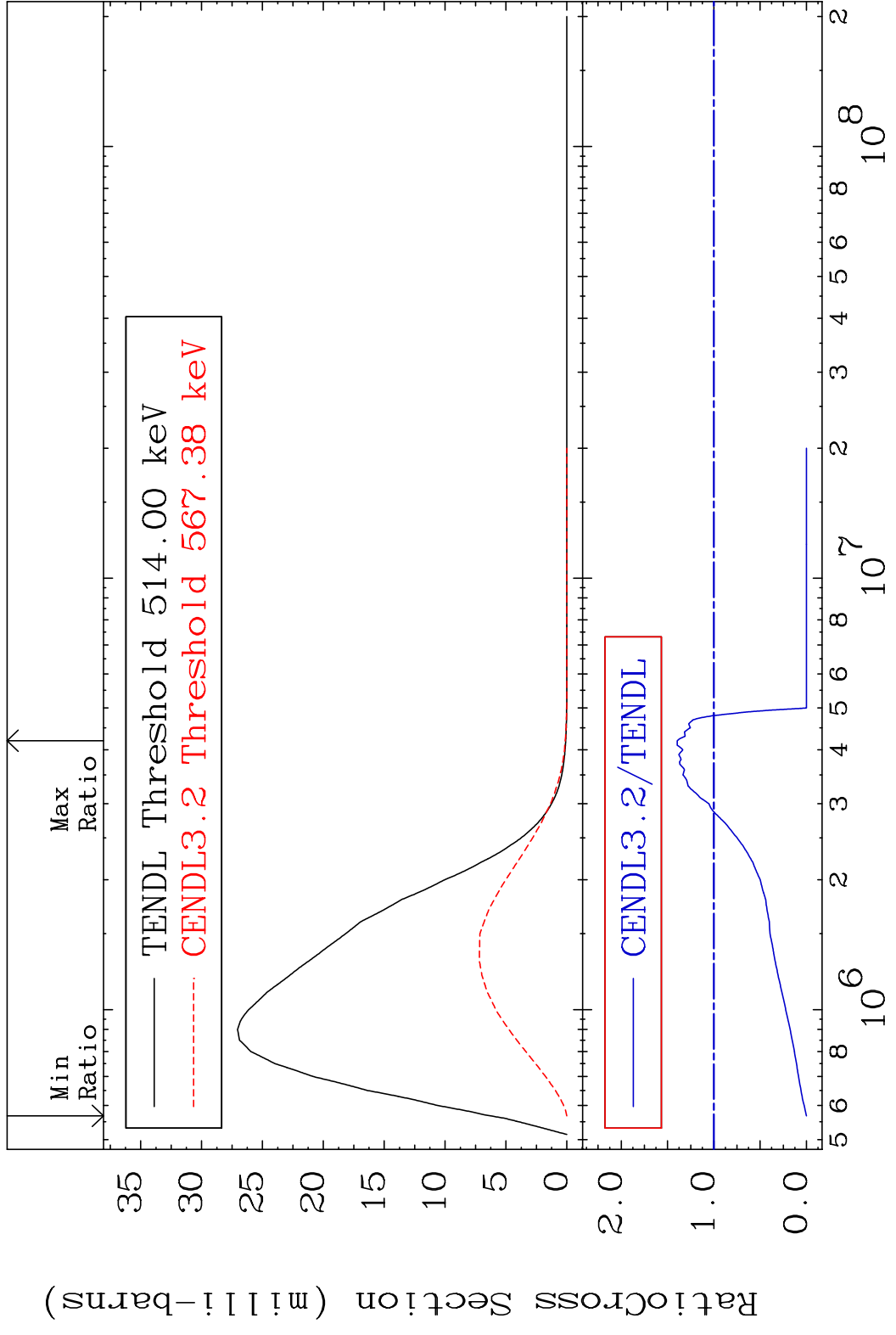
MAT 9437 MT= 66 (n, n') Level 94-Pu-239  
 Cross Section -100.0 To 157.5 %



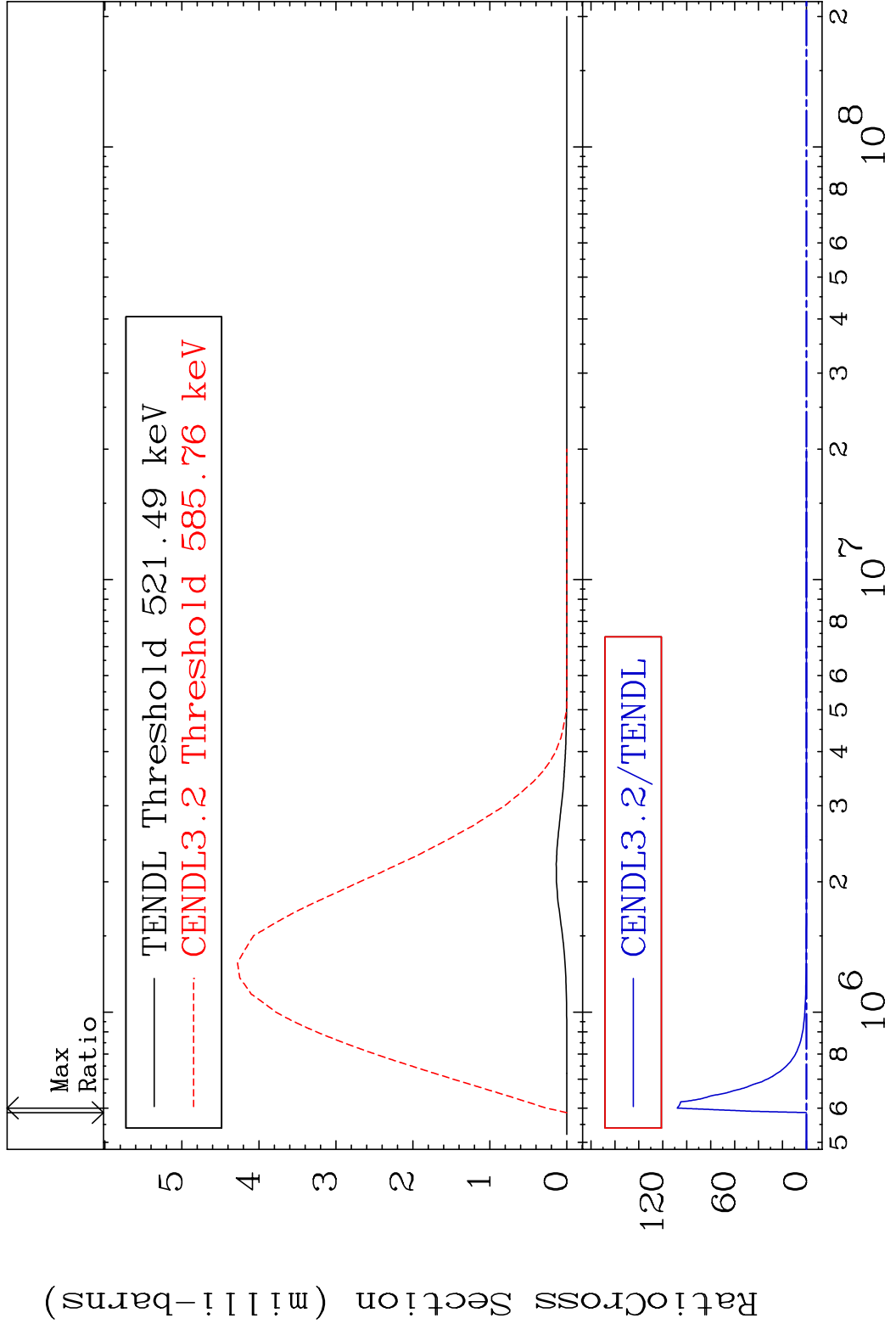
MAT 9437 MT= 67 (n, n') Level 94-Pu-239  
 Cross Section -100.0 To 48.04 %



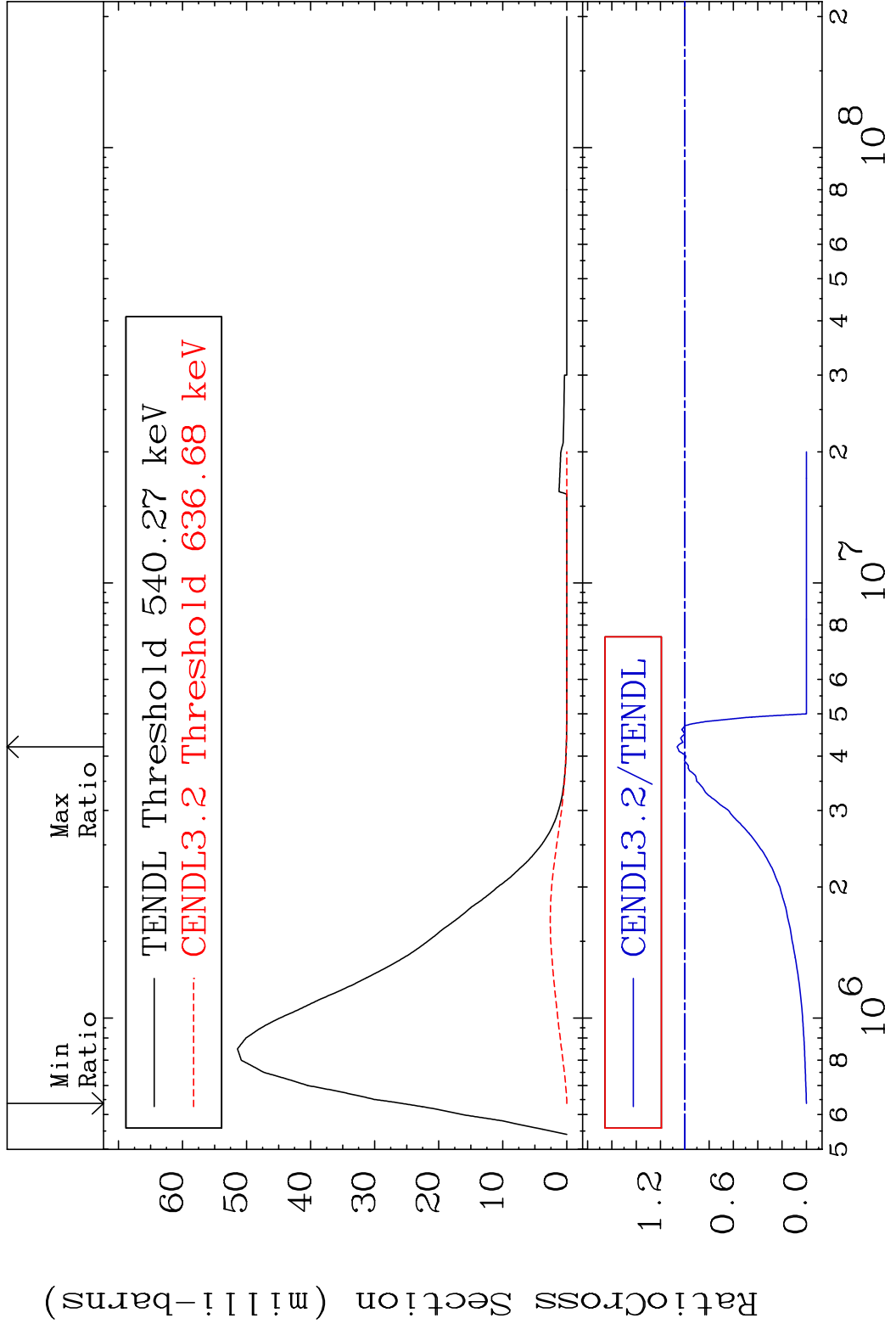
MAT 9437 MT= 68 (n, n') Level 94-Pu-239  
 Cross Section -100.0 To 39.59 %



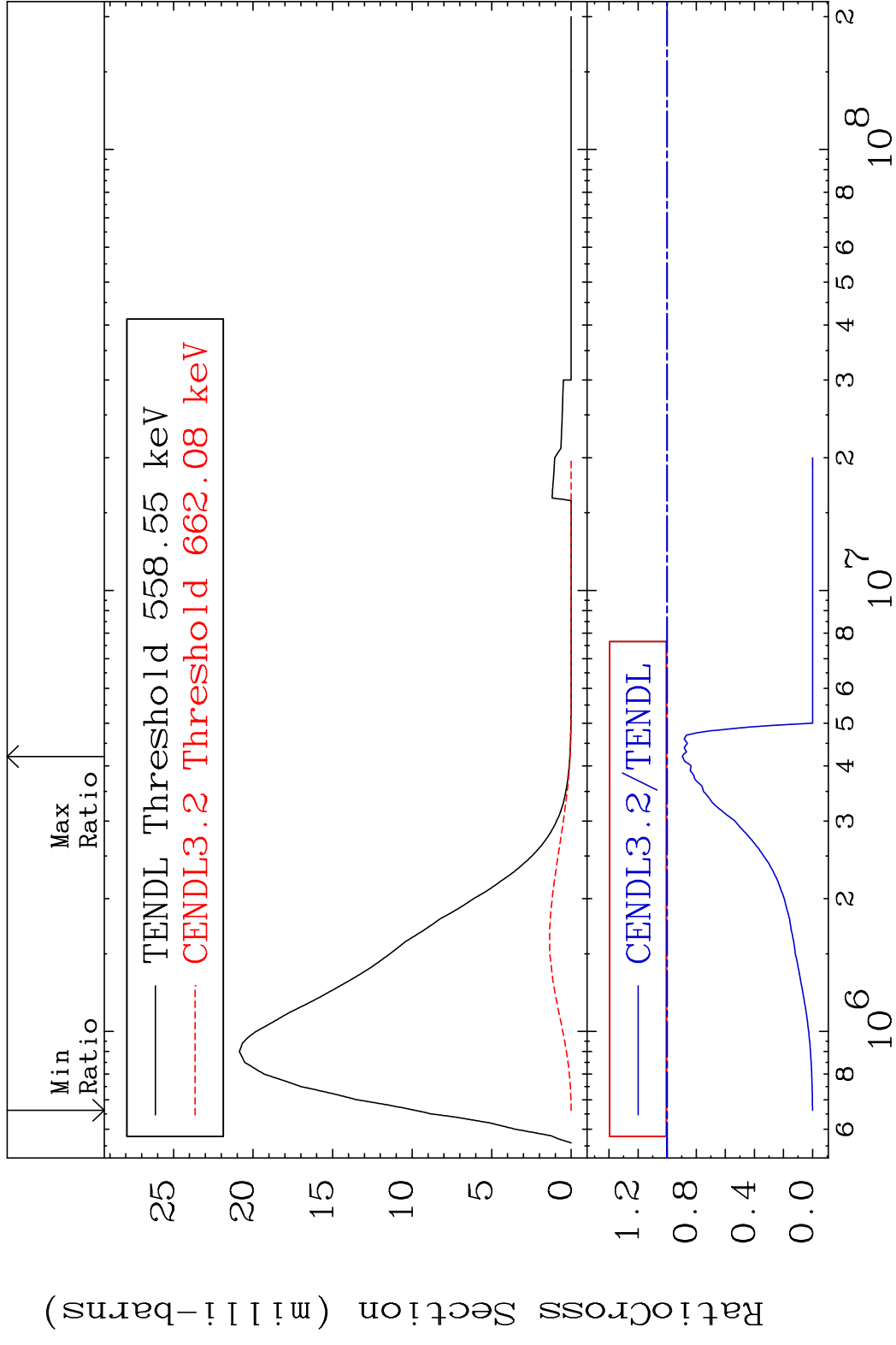
MAT 9437 MT= 69 (n, n') Level 94-Pu-239  
 Cross Section -100.0 To 9999. %



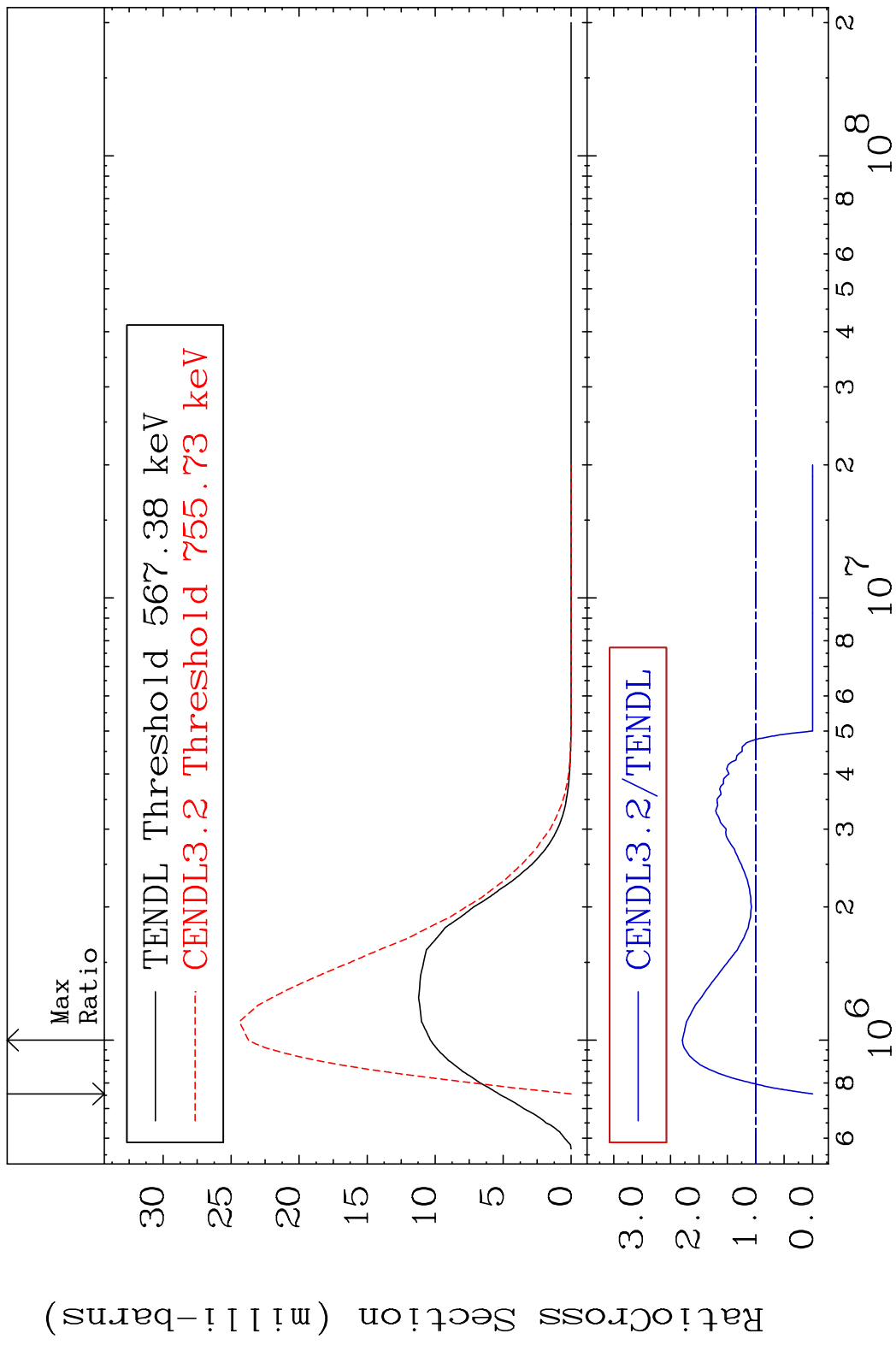
MAT 9437 MT= 70 (n, n') Level 94-Pu-239  
 Cross Section -100.0 To 6.259 %



MAT 9437 MT= 71 (n, n') Level 94-Pu-239  
 Cross Section -100.0 To -10.43%



MAT 9437 MT= 72 (n, n') Level 94-Pu-239  
 Cross Section -100.0 To 129.3 %

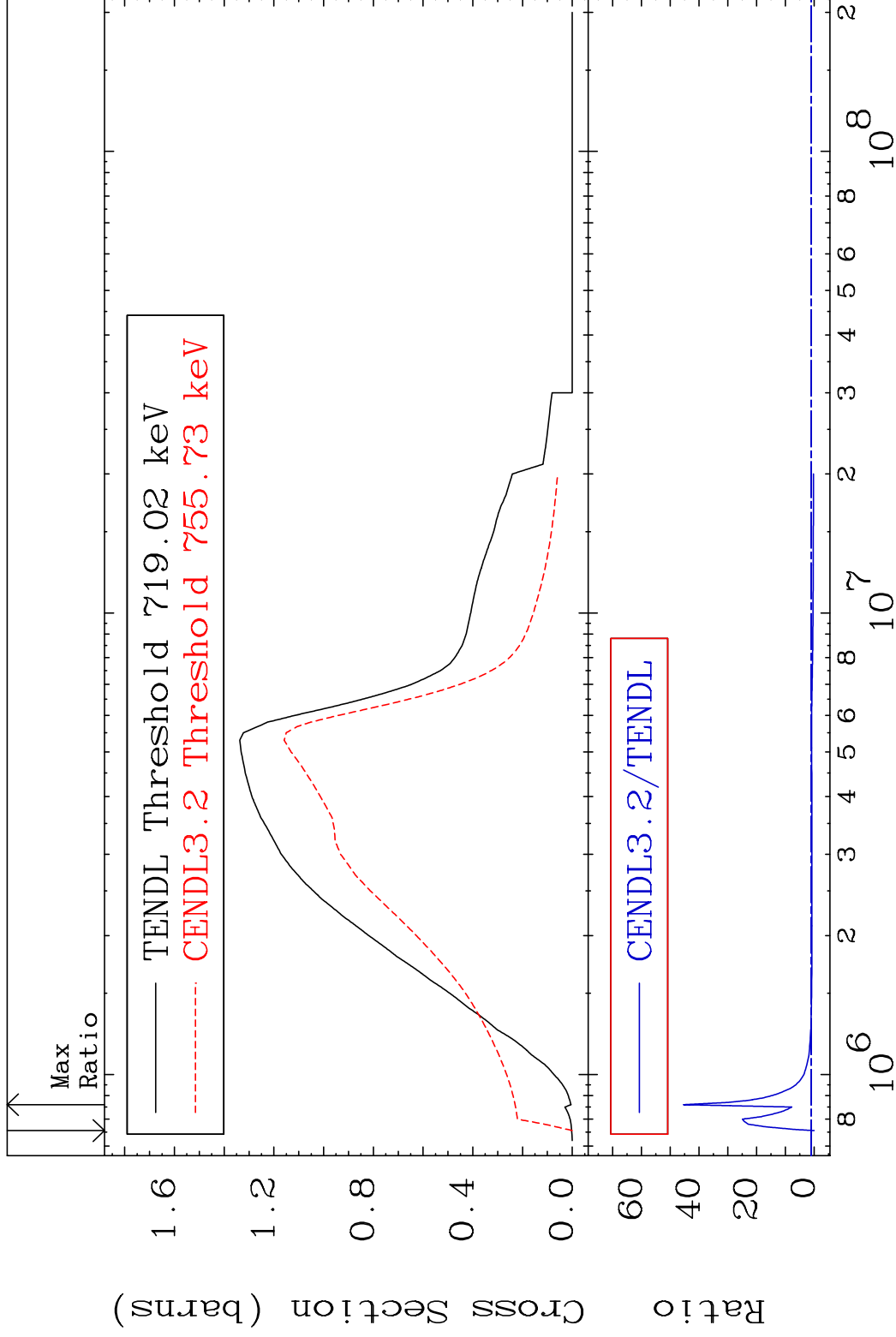


MAT 9437

(n,n') Continuum

94-Pu-239

Cross Section -100.0 To 4433. %



33

Incident Energy (eV)

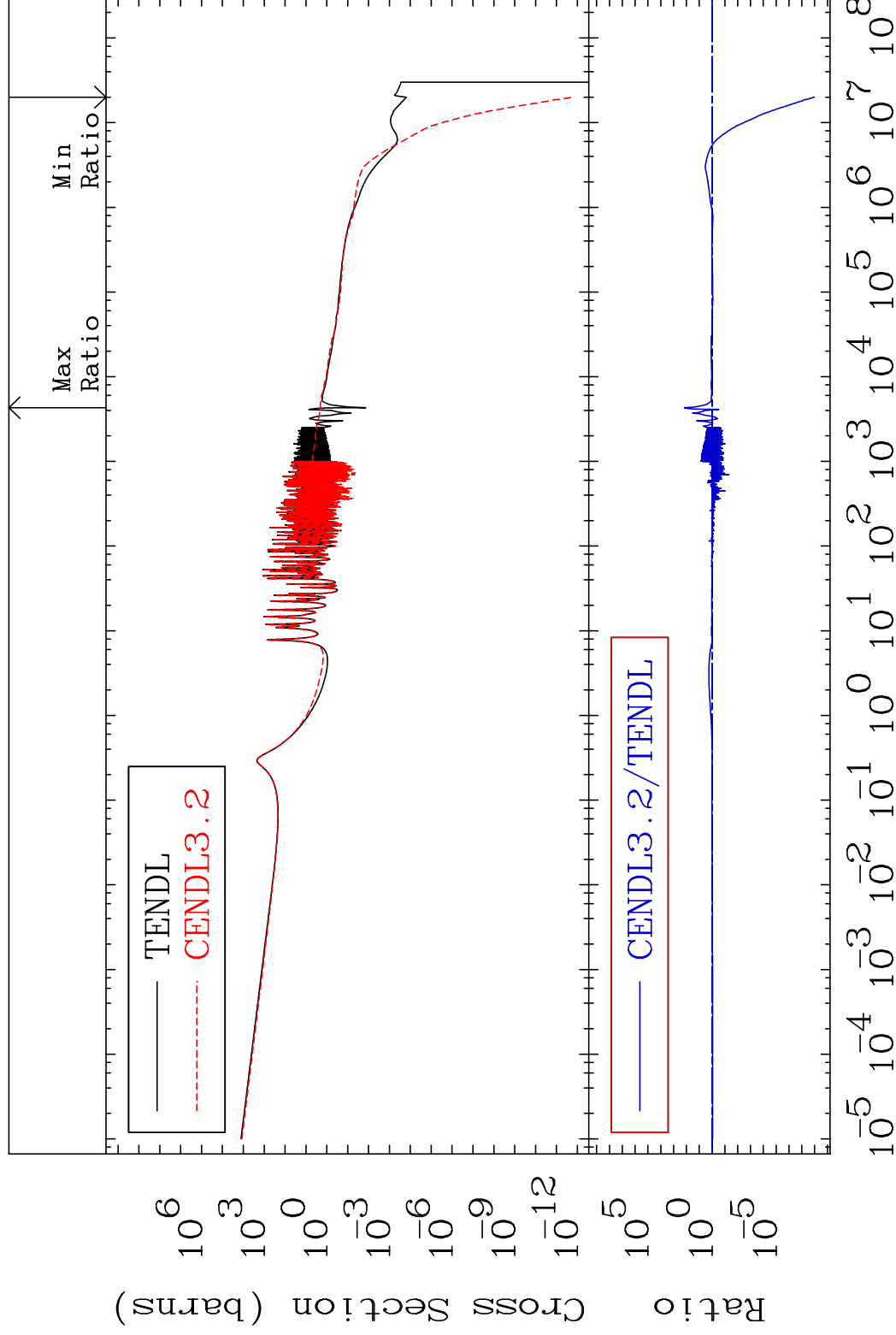
94-Pu-239

MAT 9437

(n,  $\gamma$ )

94-Pu-239

Cross Section -100.0 To 9999. %



34

Incident Energy (eV)

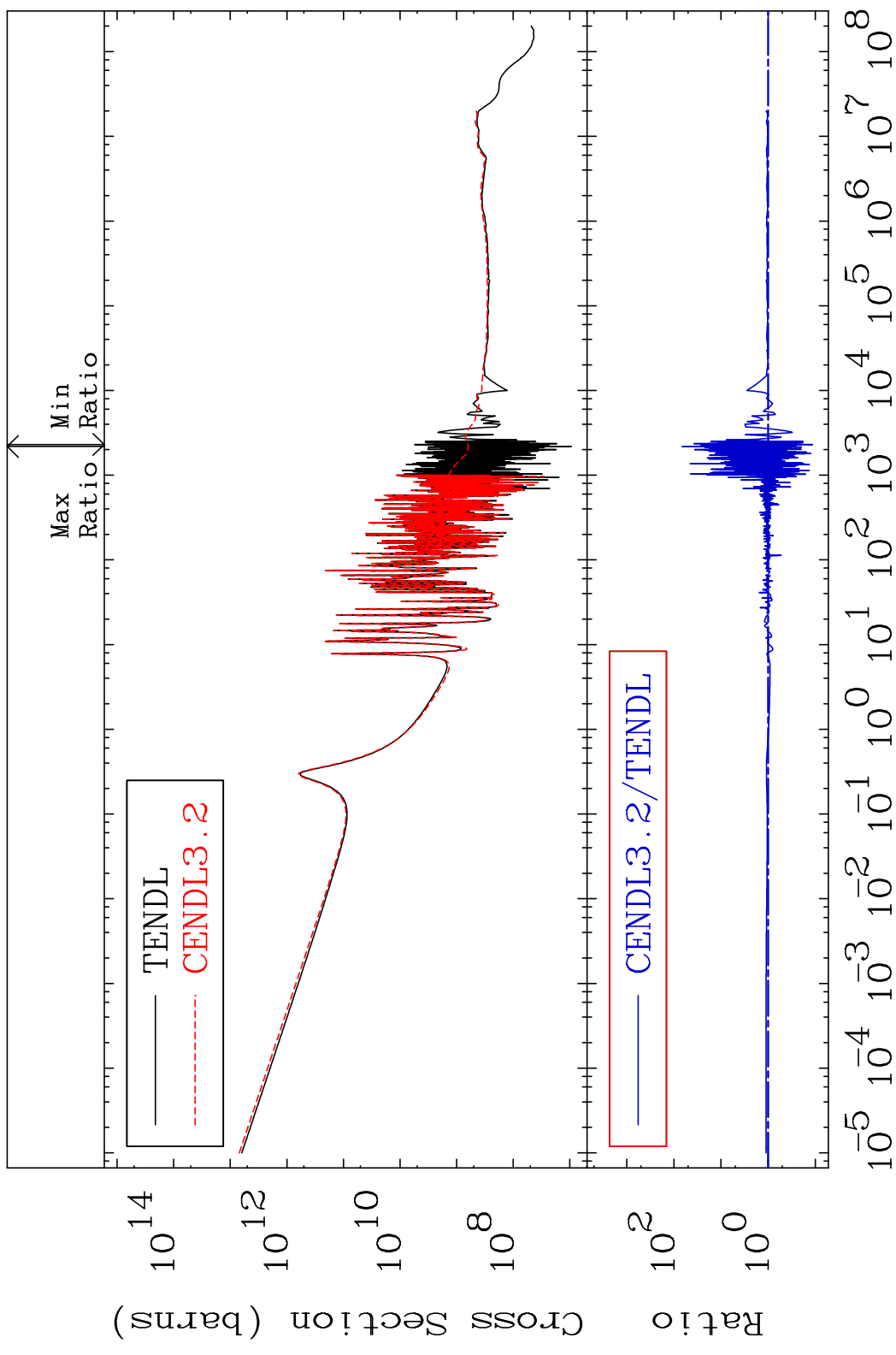
94-Pu-239

MAT 9437

Kerma total (eV-barns)

94-Pu-239

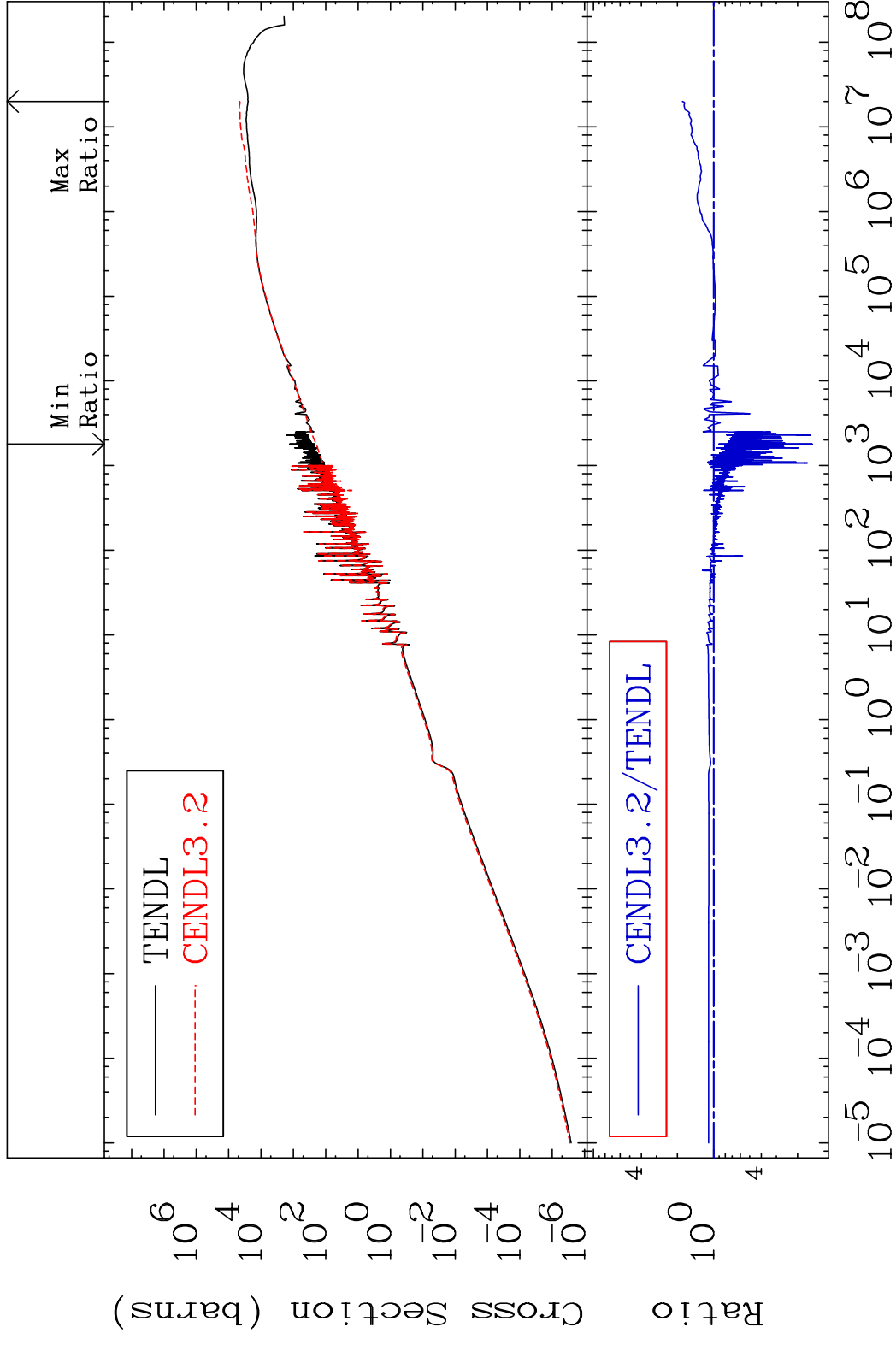
Cross Section -88.58 To 6515. %



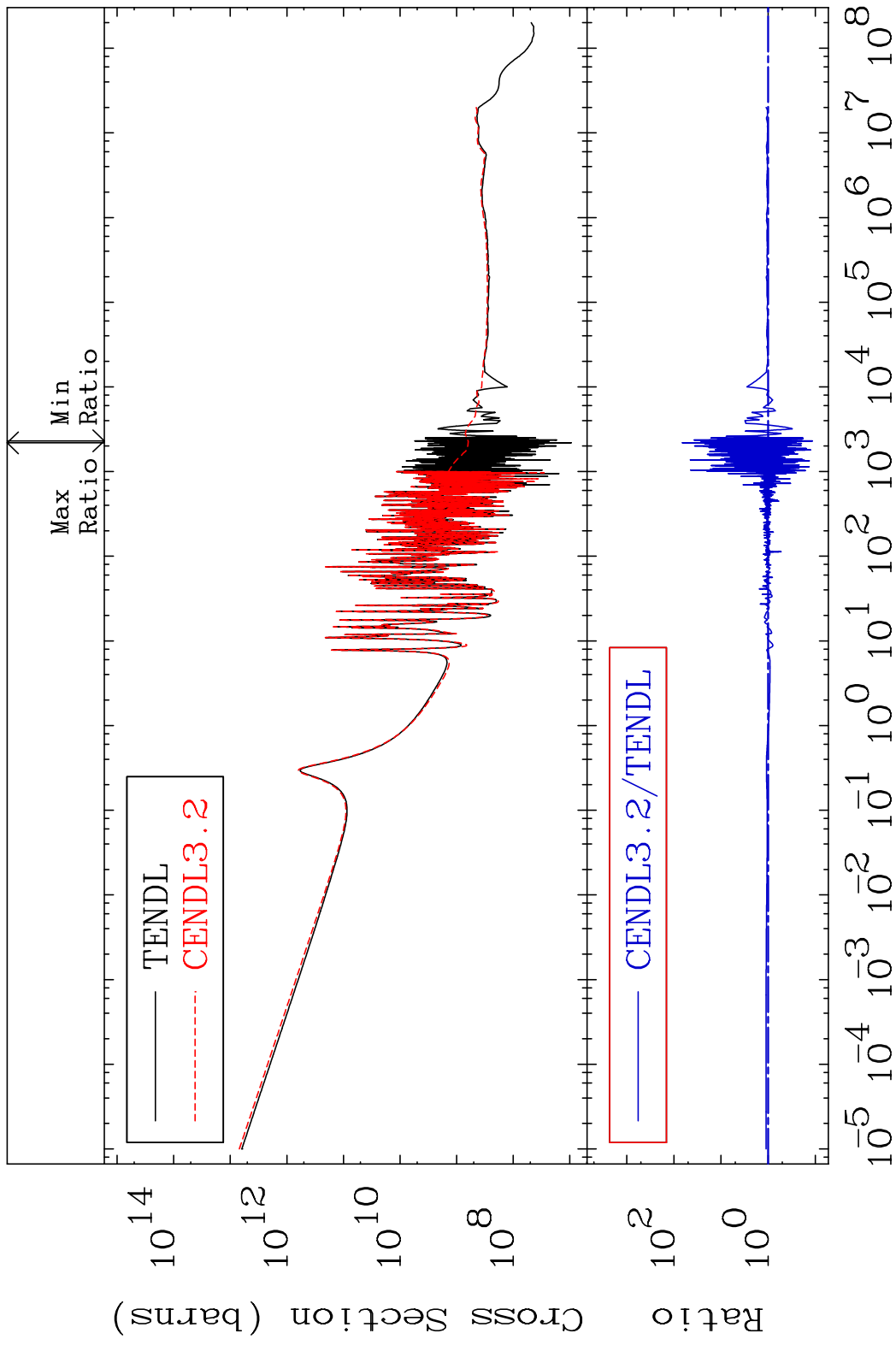
MAT 9437

Kerma elastic  
Cross Section

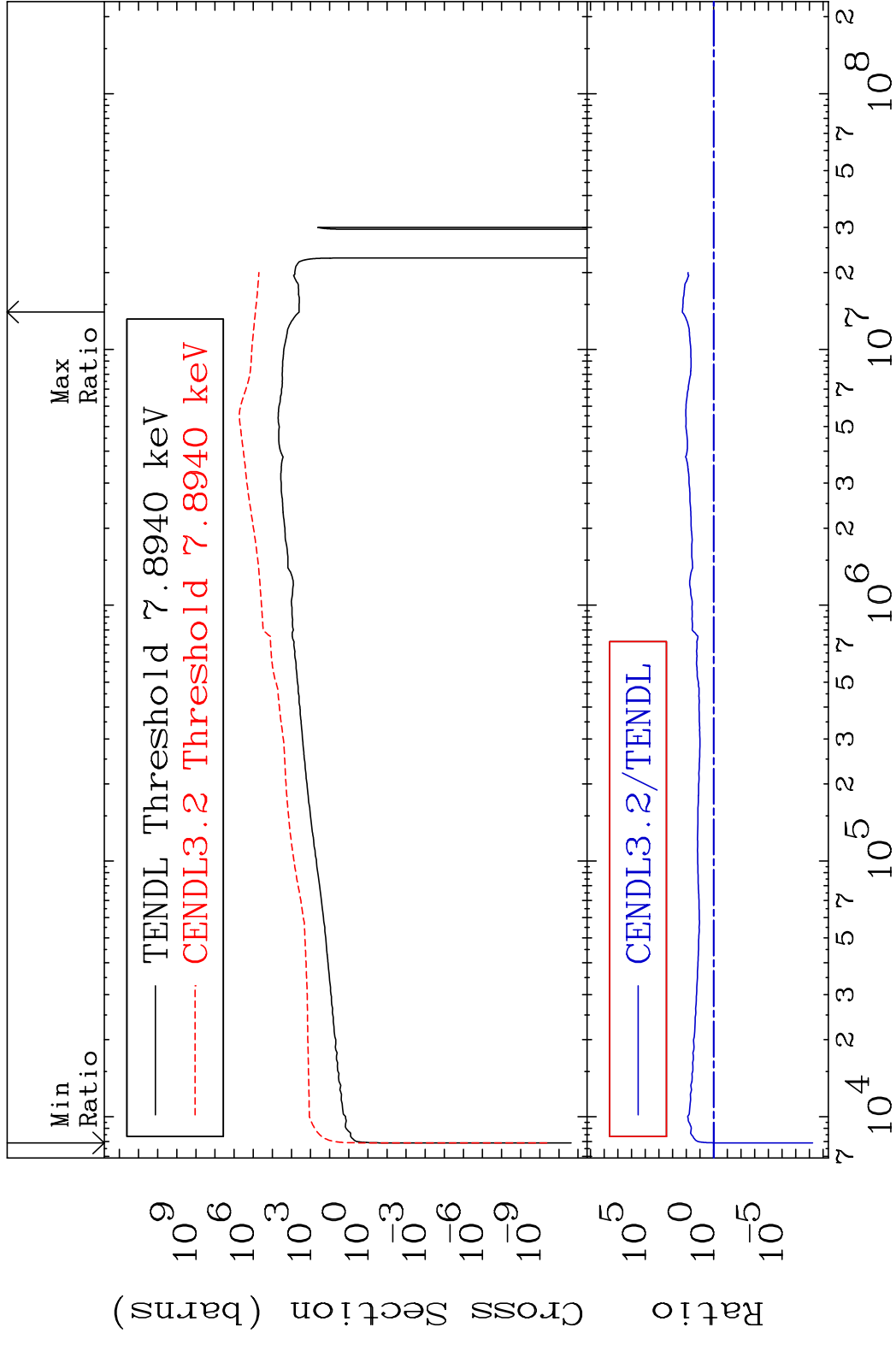
94-Pu-239  
-85.02 To 82.08 %



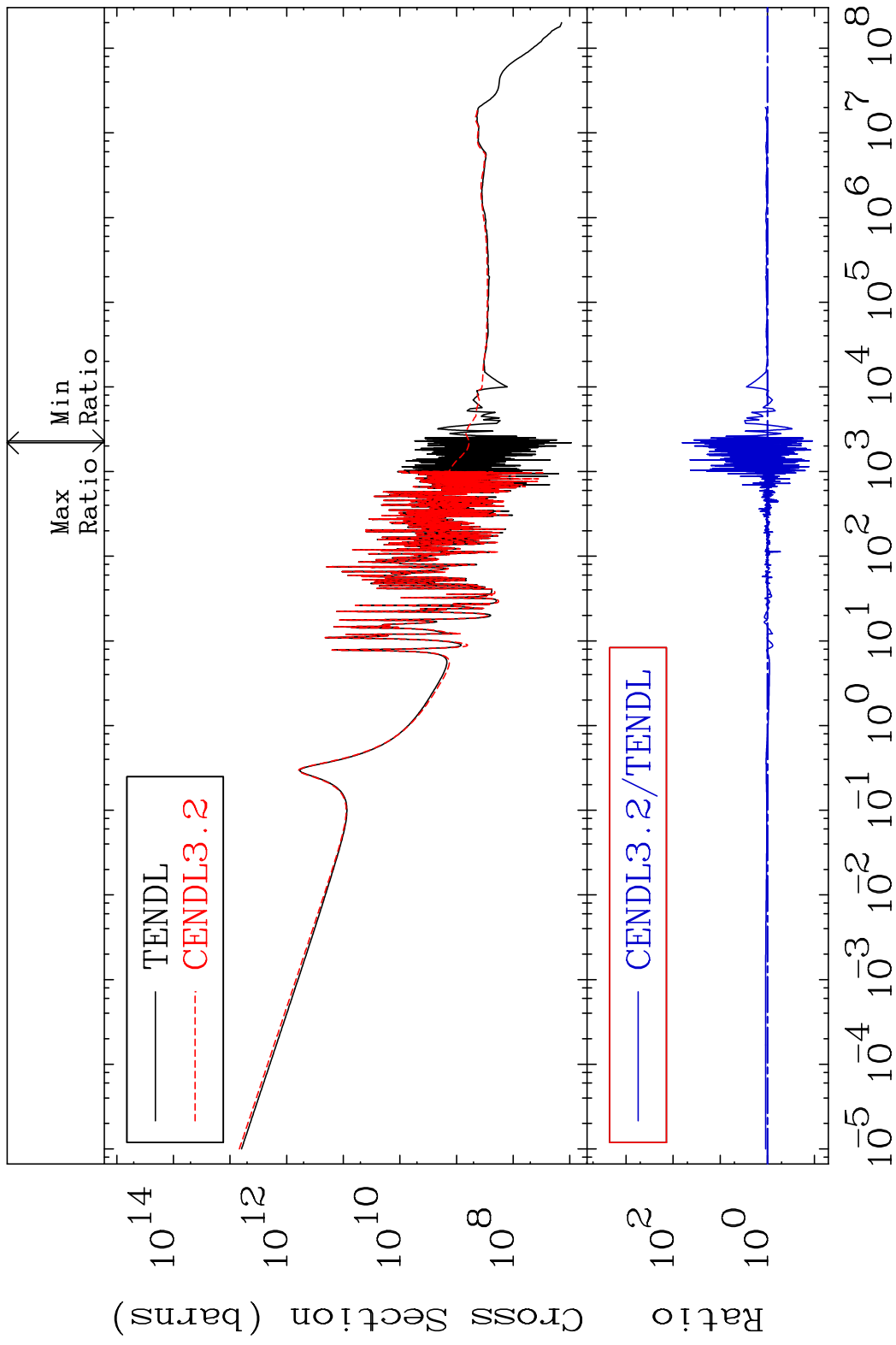
MAT 9437 Kerma non-elastic (all but mt2) 94-Pu-239  
 Cross Section -88.58 To 6516. %



MAT 9437 Kerma inelastic (mt51-91) 94-Pu-239  
 Cross Section -100.0 To 9999. %

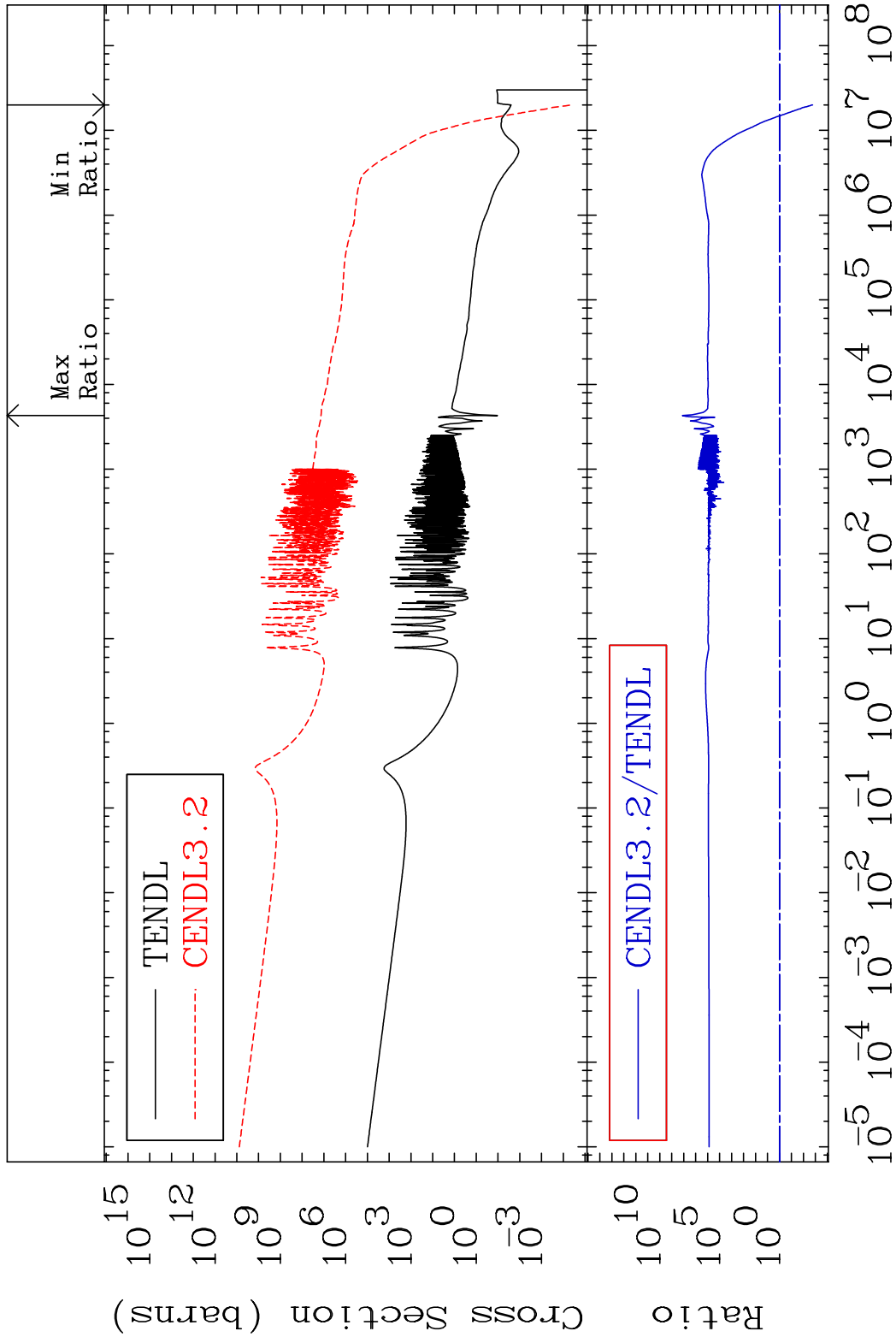


MAT 9437 Kerma fission (mt18 or mt19-20-21-38) 94-Pu-239  
 Cross Section -88.99 To 6276. %



MAT 9437

Kerma capture (mt102) 94-Pu-239  
Cross Section -99.83 To 9999. %



40

Incident Energy (eV)

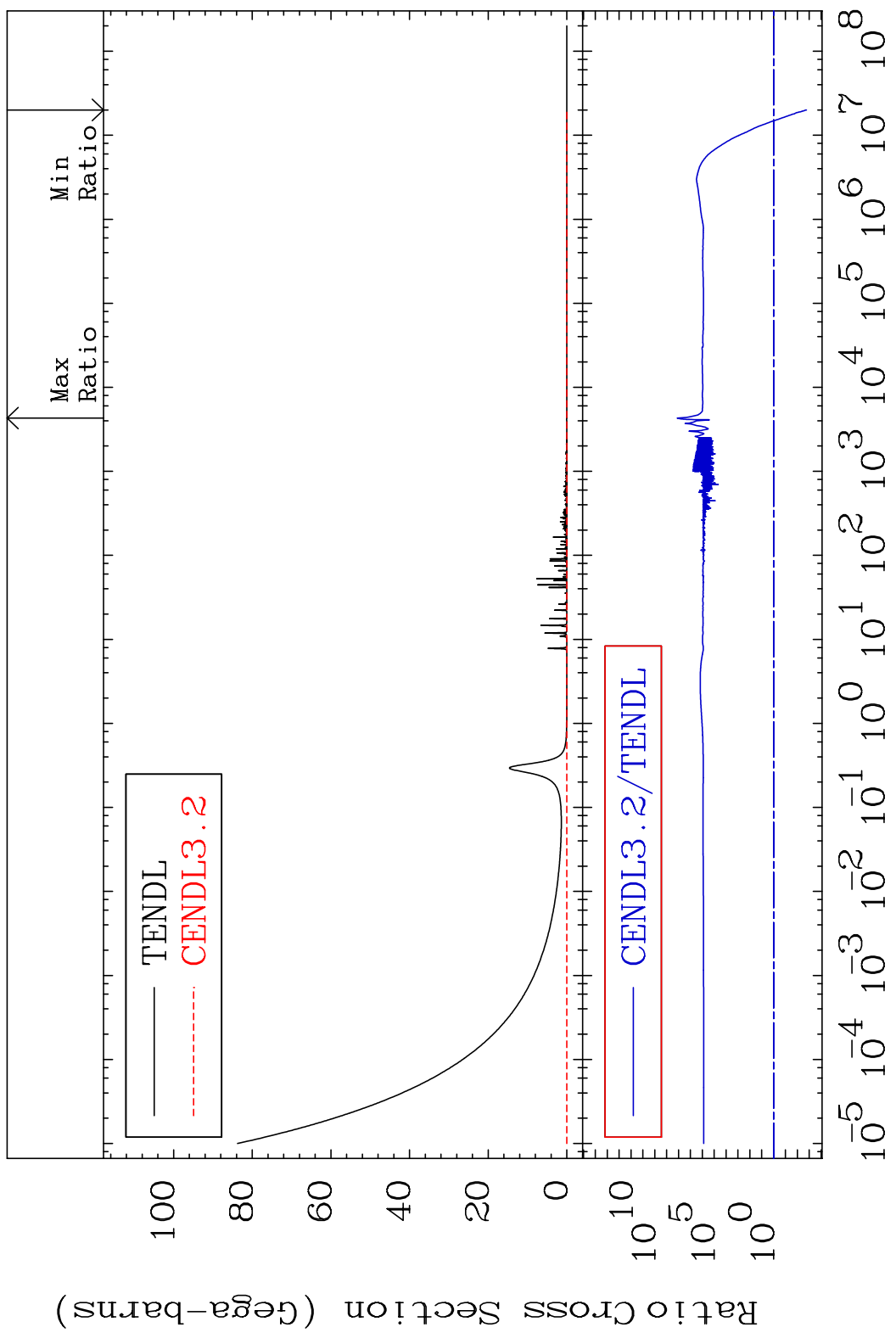
94-Pu-239

MAT 9437

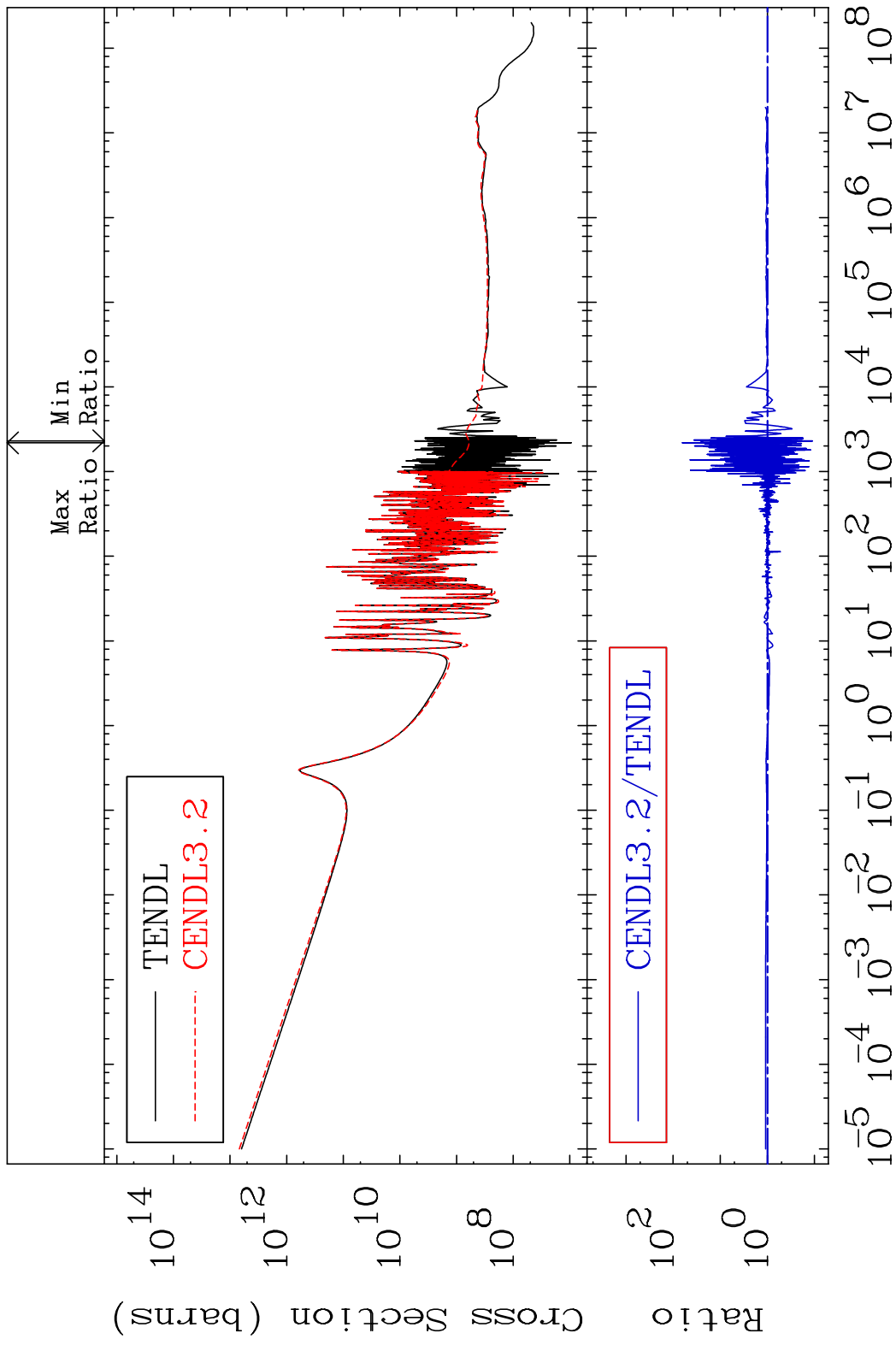
Total photon (eV-barns)

94-Pu-239

Cross Section -99.83 To 9999. %



MAT 9437 Total kinematic kerma (high limit) 94-Pu-239  
 Cross Section -88.99 To 6276. %

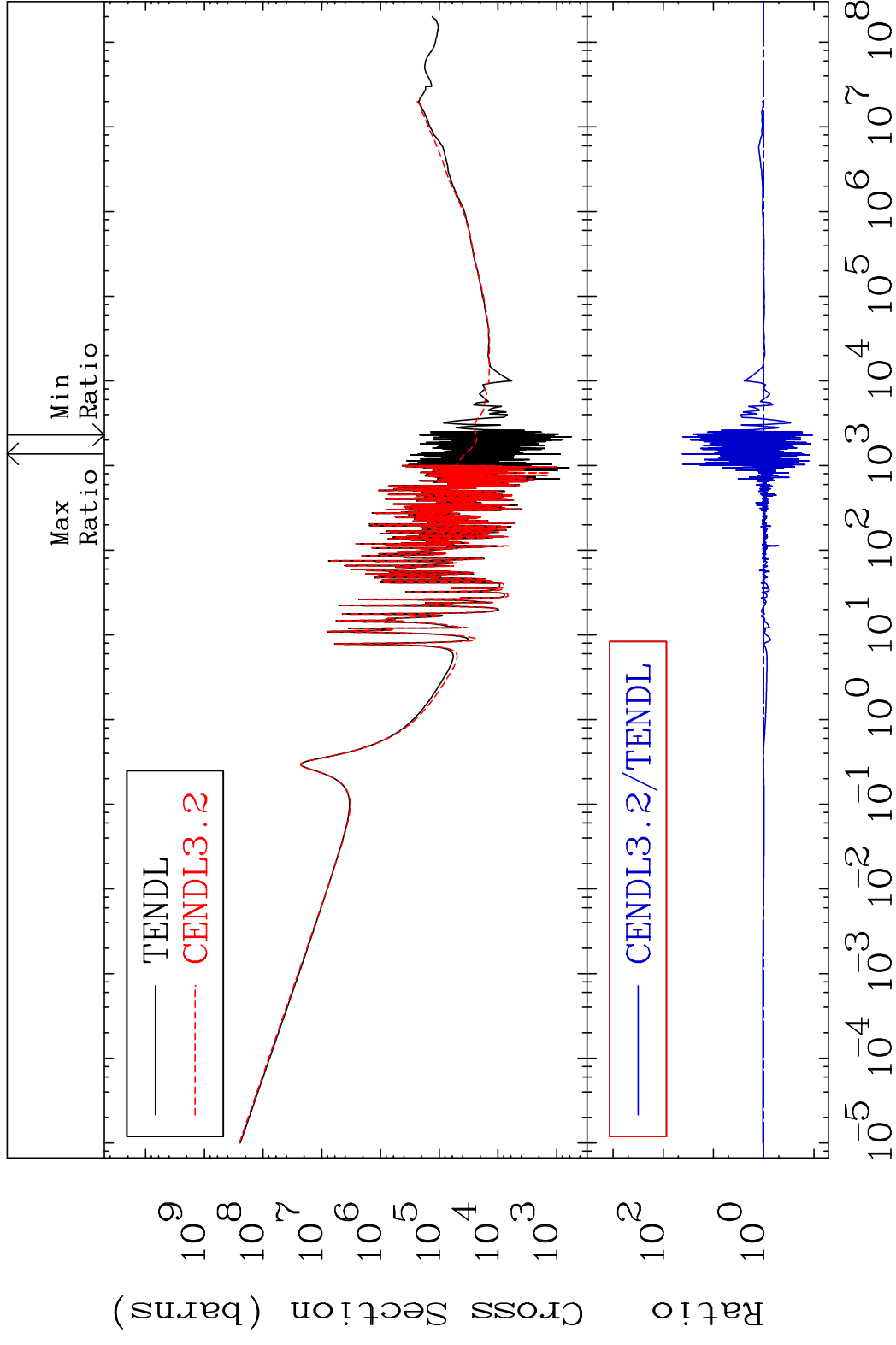


MAT 9437

Dpa total (eV-barns)

94-Pu-239

Cross Section -89.38 To 4053. %



43

Incident Energy (eV)

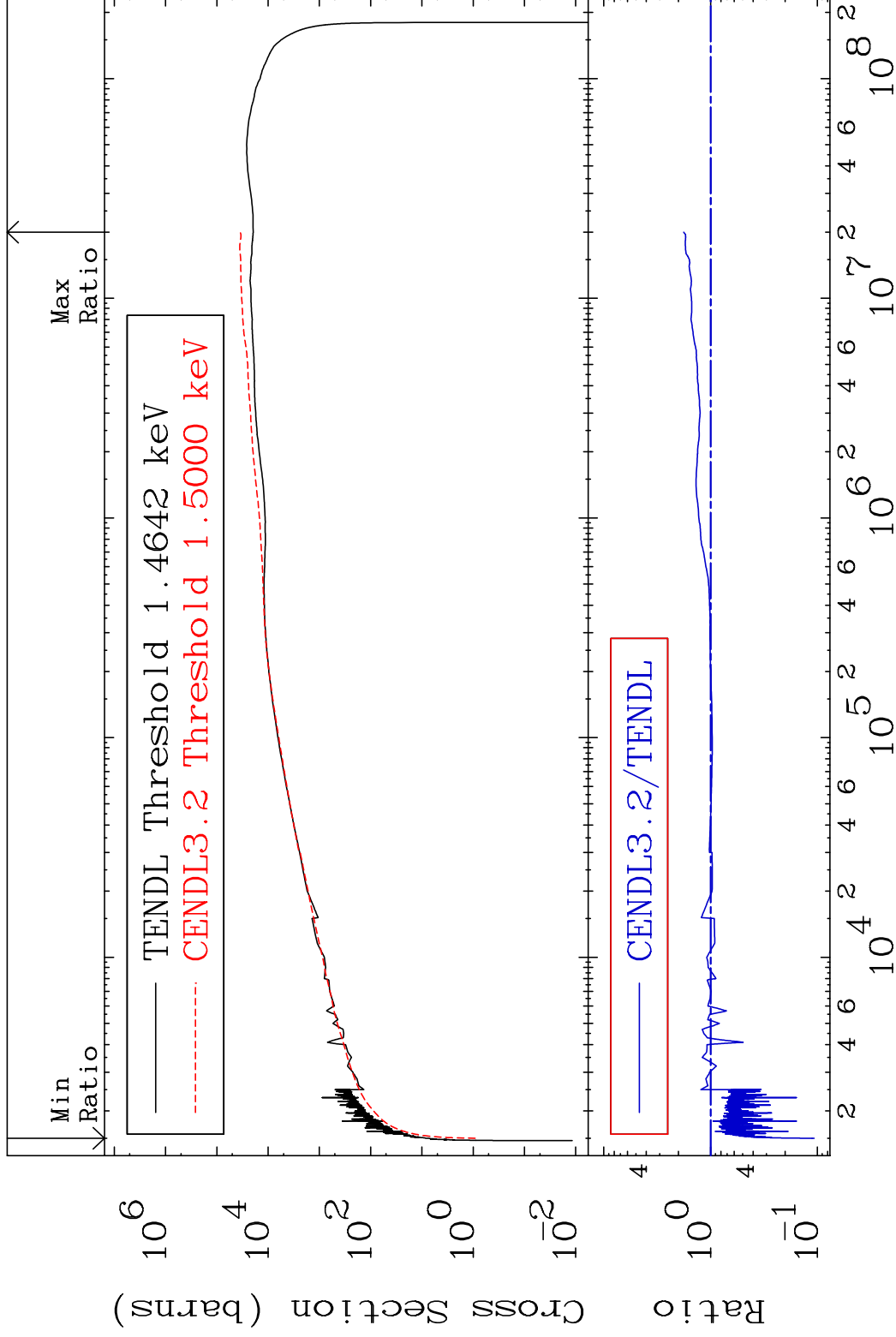
94-Pu-239

MAT 9437

Dpa elastic (mt2)

94-Pu-239

Cross Section -89.27 To 78.79 %



44

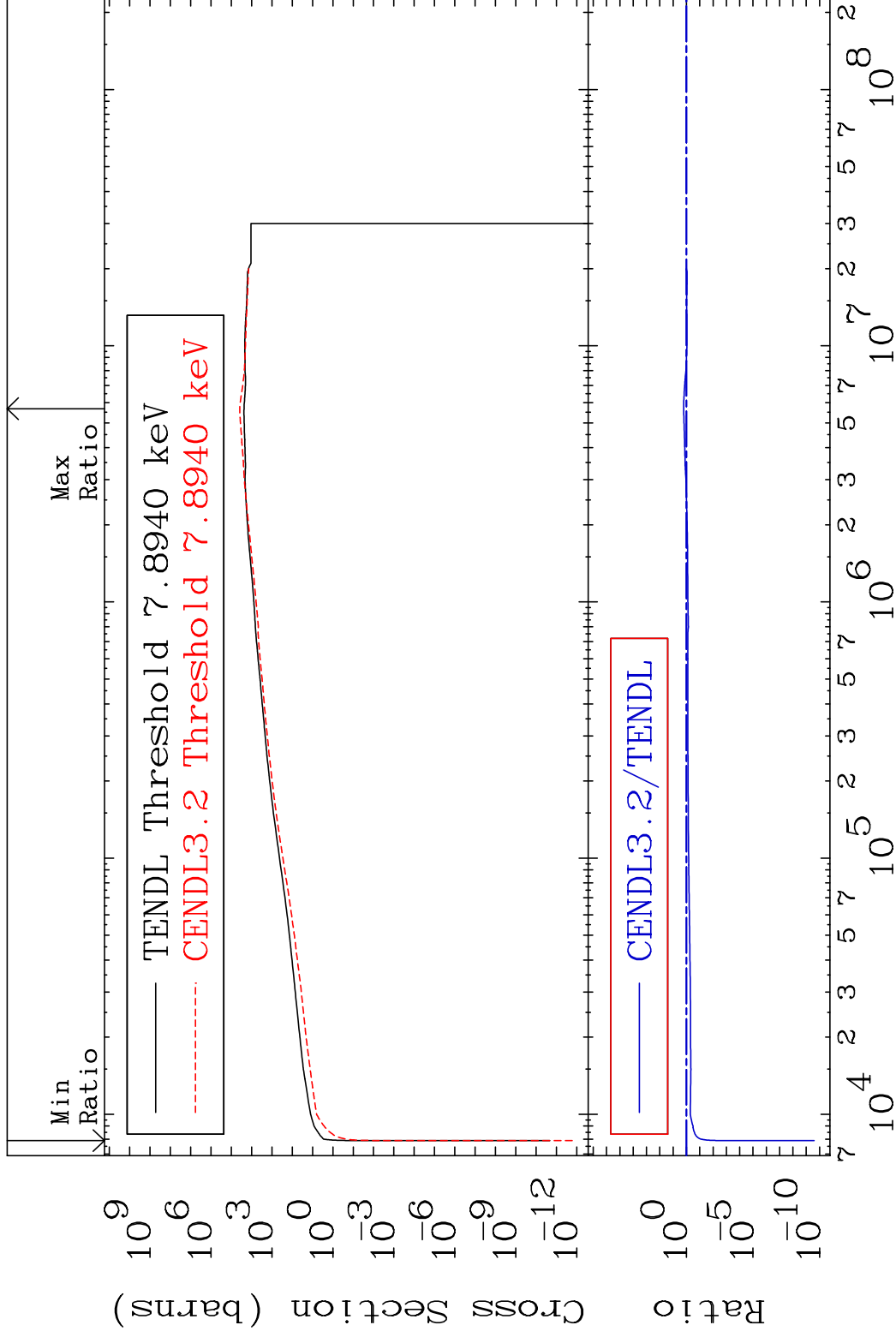
Incident Energy (eV)

94-Pu-239

MAT 9437

Dpa inelastic (mt51-91) 94-Pu-239

Cross Section -100.0 To 61.78 %

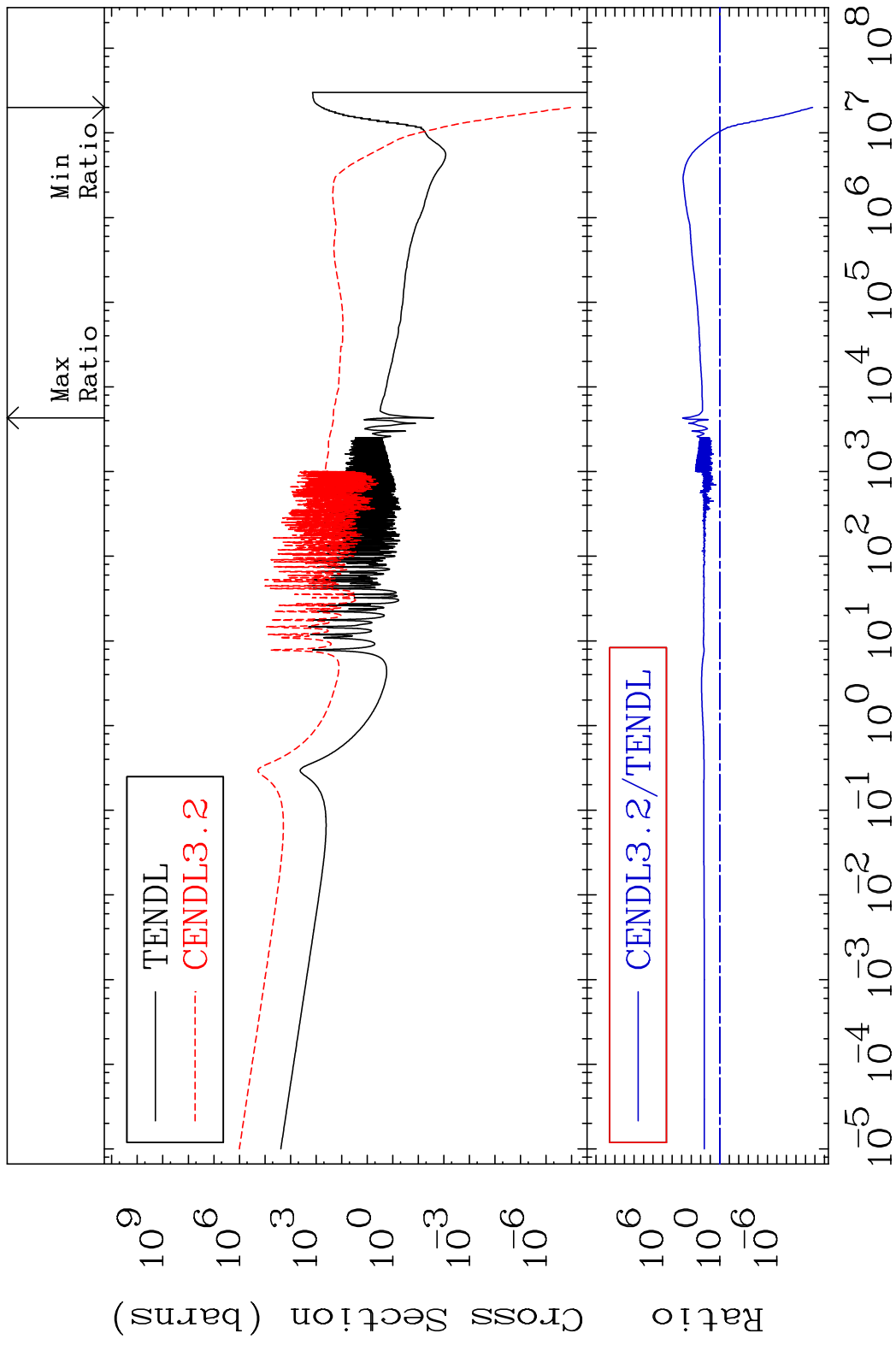


45

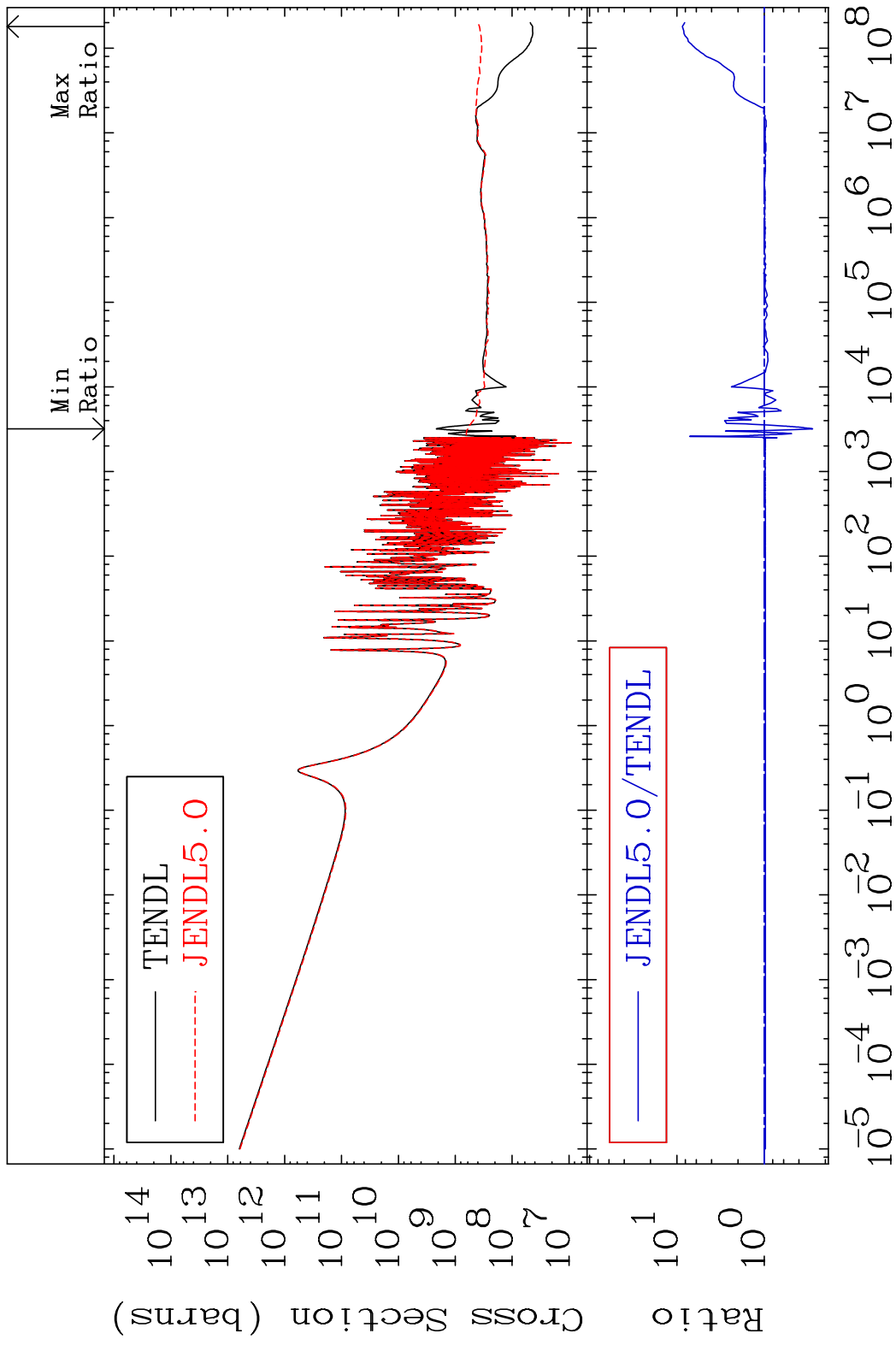
Incident Energy (eV)

94-Pu-239

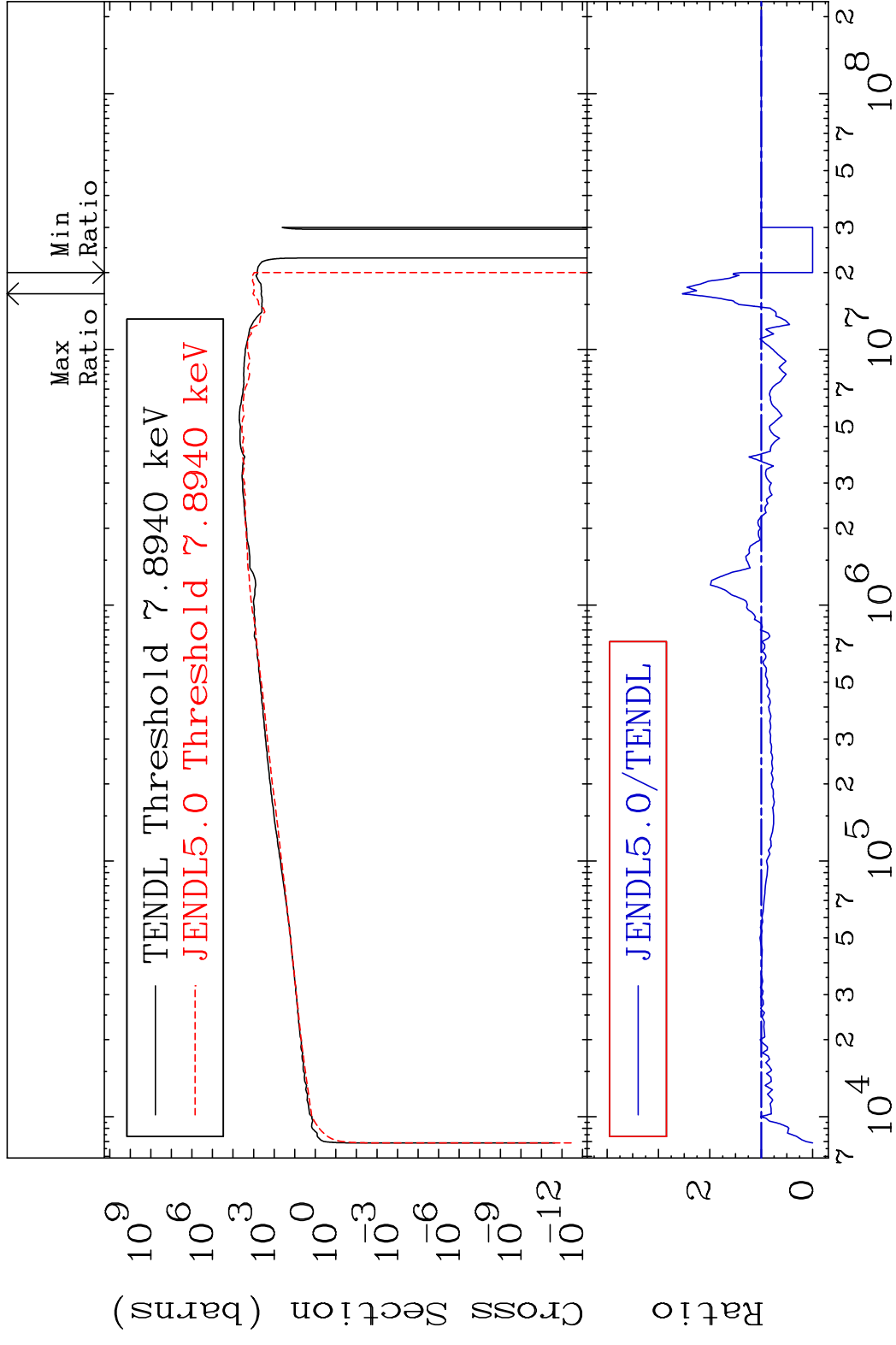
MAT 9437 Dpa disappearance (mt102 -120) 94-Pu-239  
 Cross Section -100.0 To 9999. %



MAT 9437 Kerma non-elastic (all but mt2) 94-Pu-239  
 Cross Section -71.99 To 765.3 %

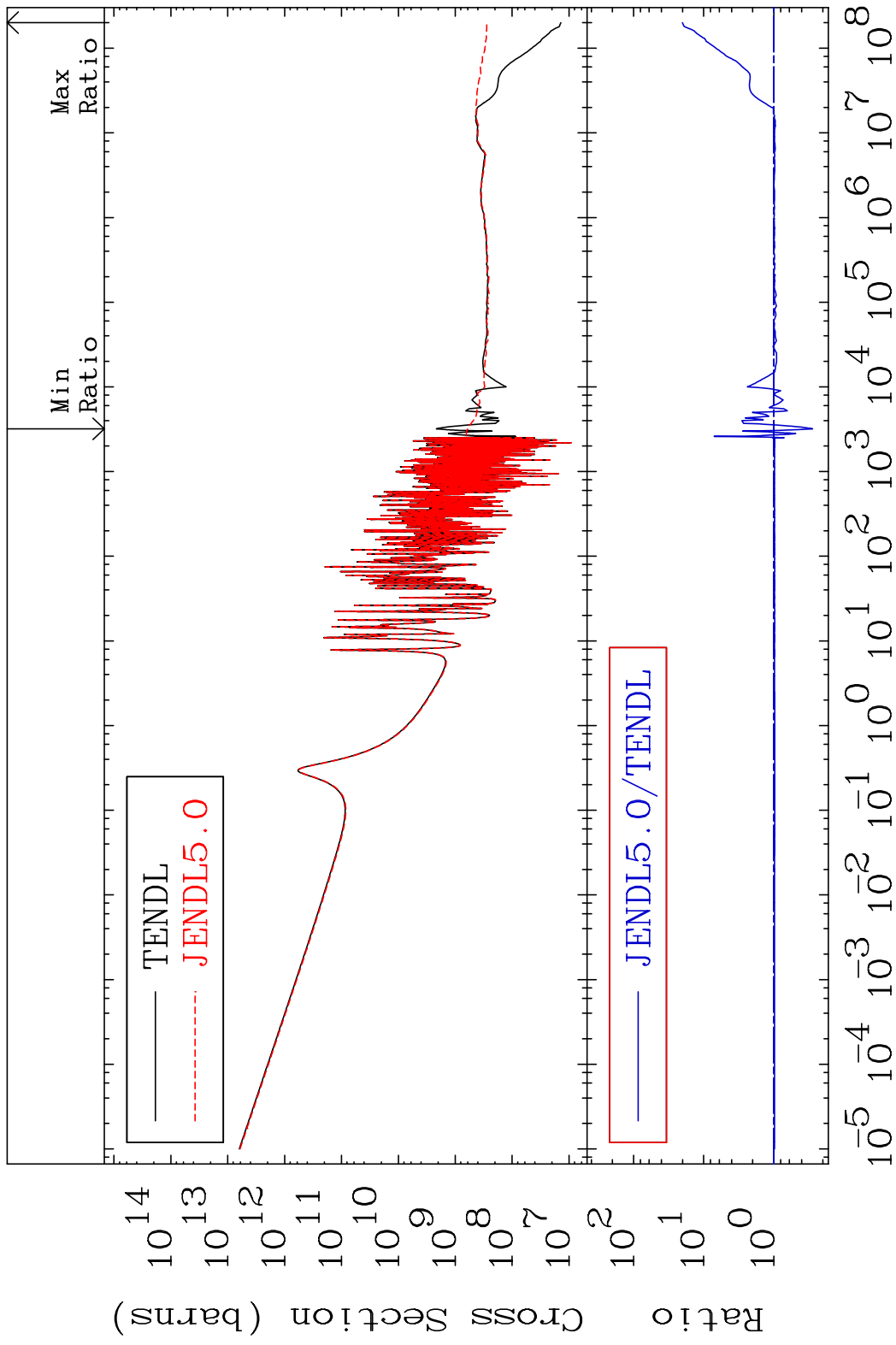


MAT 9437 Kerma inelastic (mt51-91) 94-Pu-239  
Cross Section -100.0 To 153.5 %



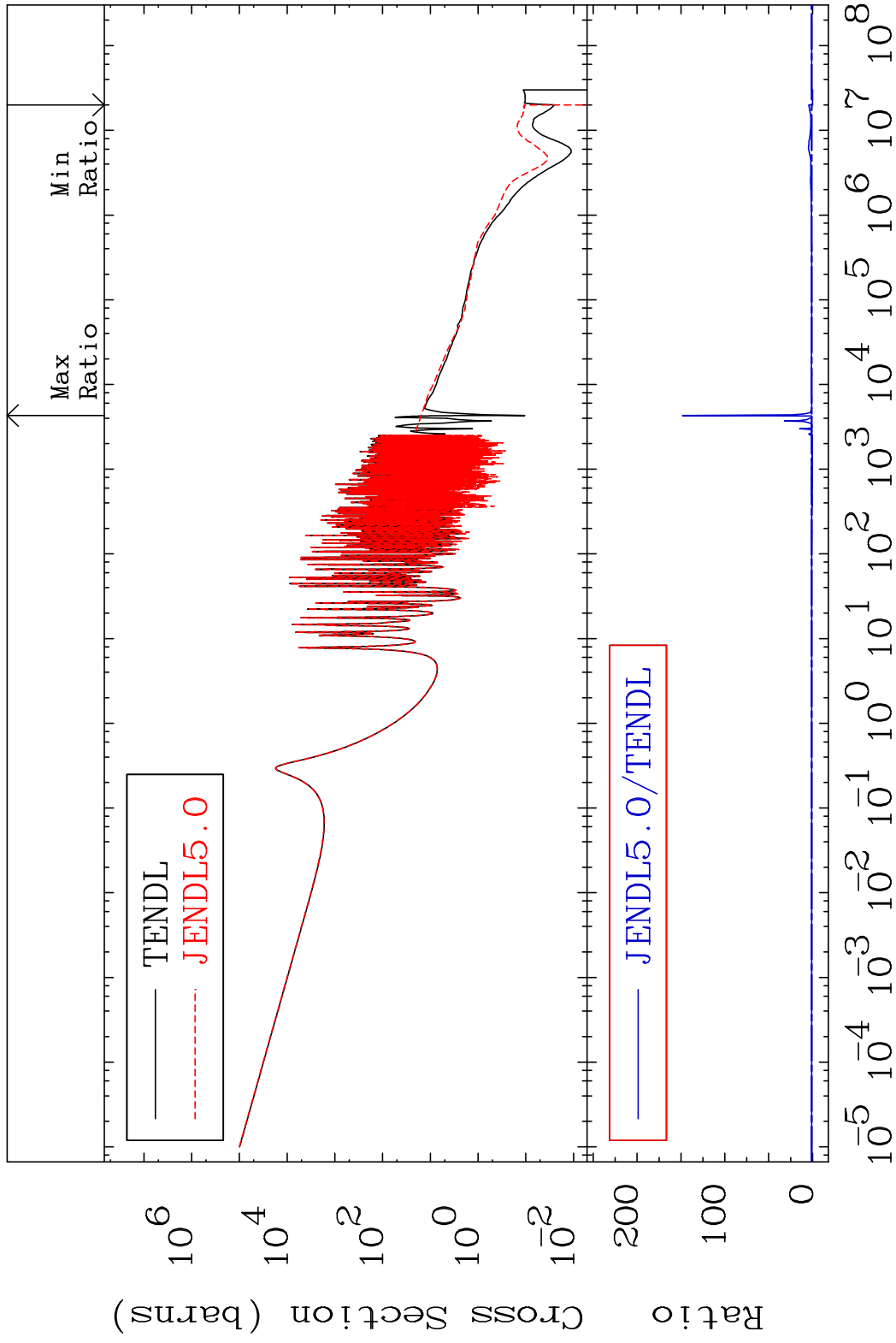
48 Incident Energy (eV) 94-Pu-239

MAT 9437 Kerma fission (mt18 or mt19-20-21-38) 94-Pu-239  
 Cross Section -71.99 To 1913. %



MAT 9437

Kerma capture (mt102) 94-Pu-239  
Cross Section -100.0 To 9999. %

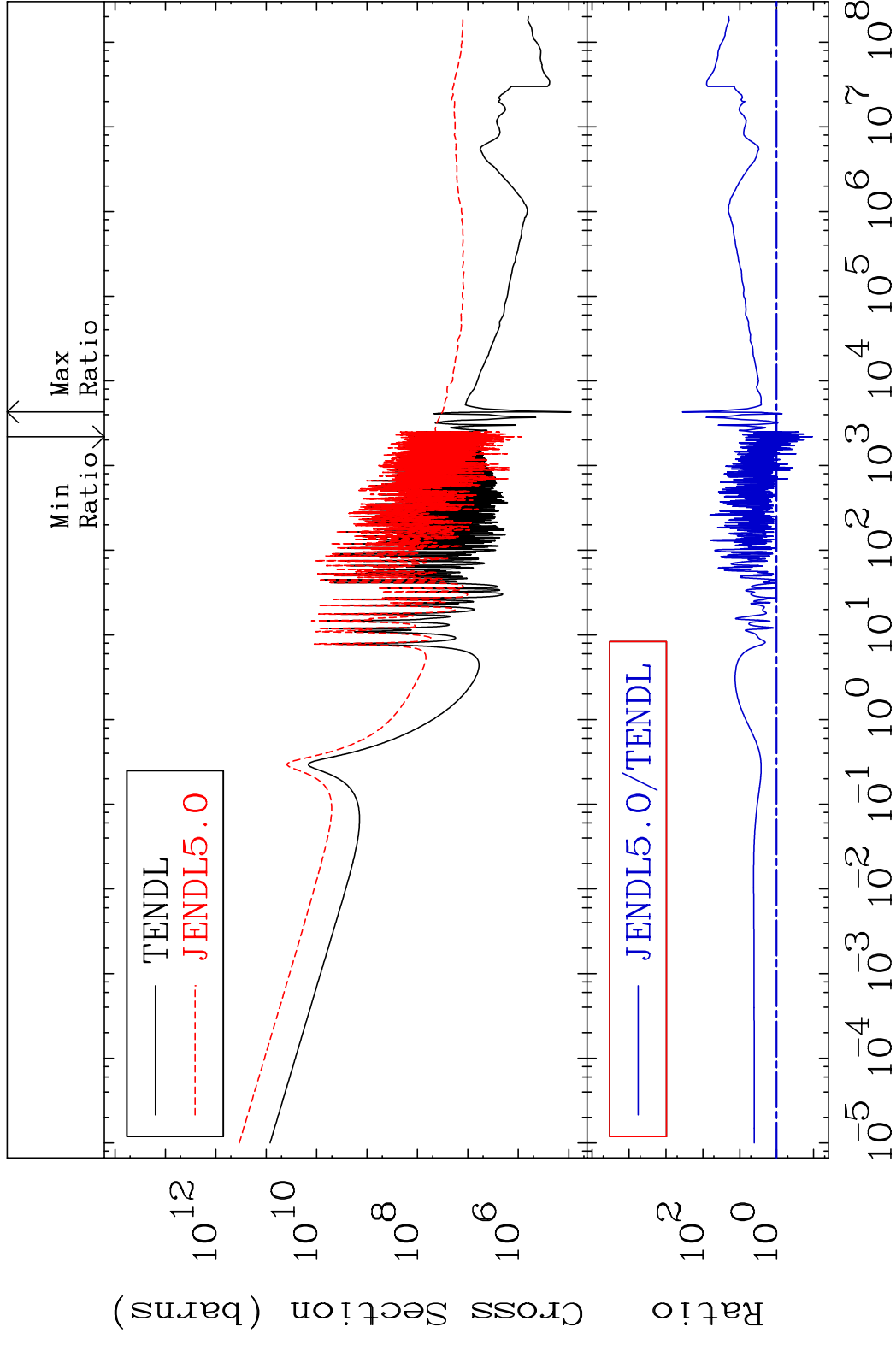


50

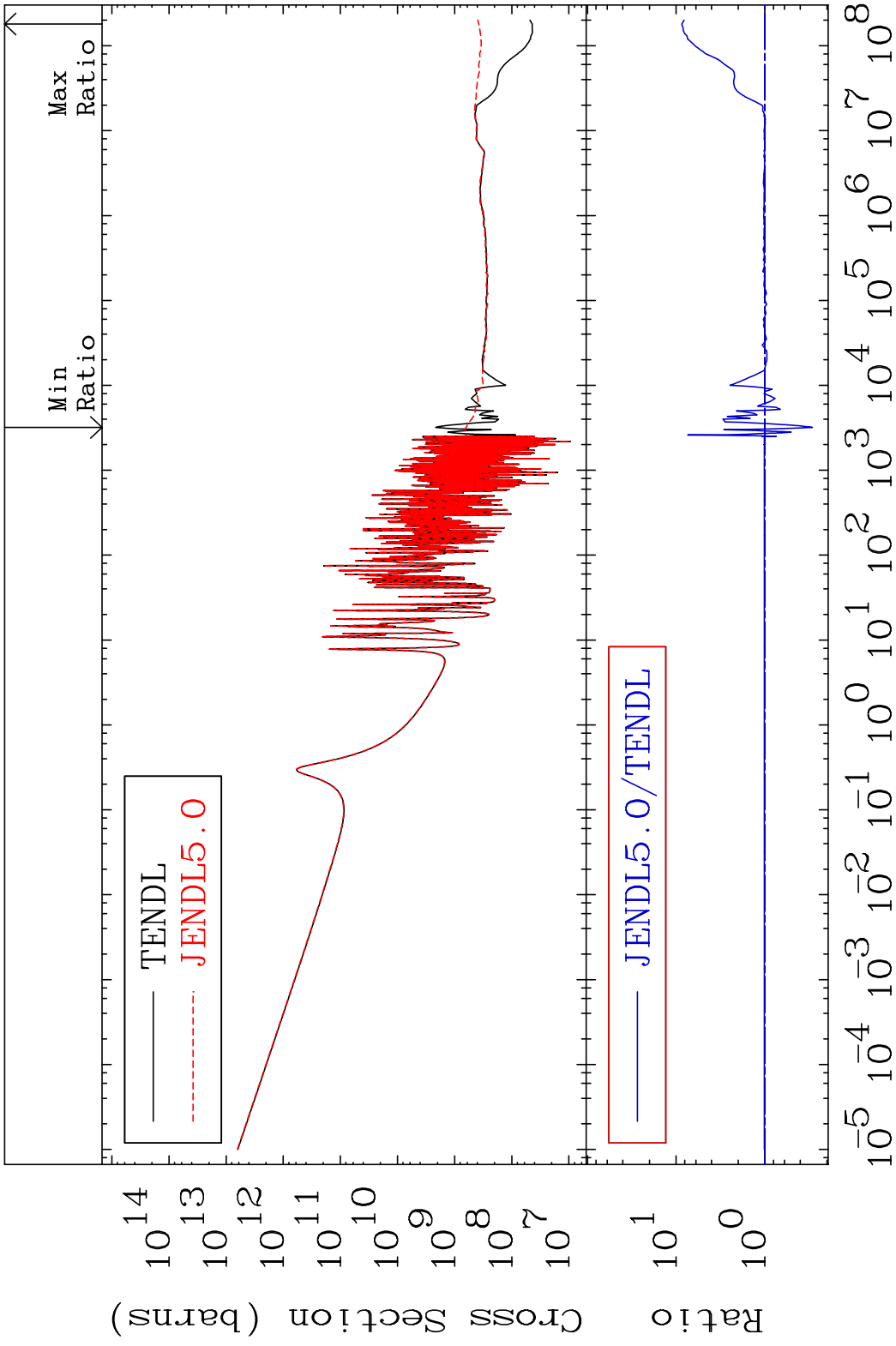
Incident Energy (eV)

94-Pu-239

MAT 9437 Total photon (eV-barns) 94-Pu-239  
 Cross Section -89.34 To 9999. %



MAT 9437 Total kinematic kerma (high limit) 94-Pu-239  
 Cross Section -70.80 To 765.4 %

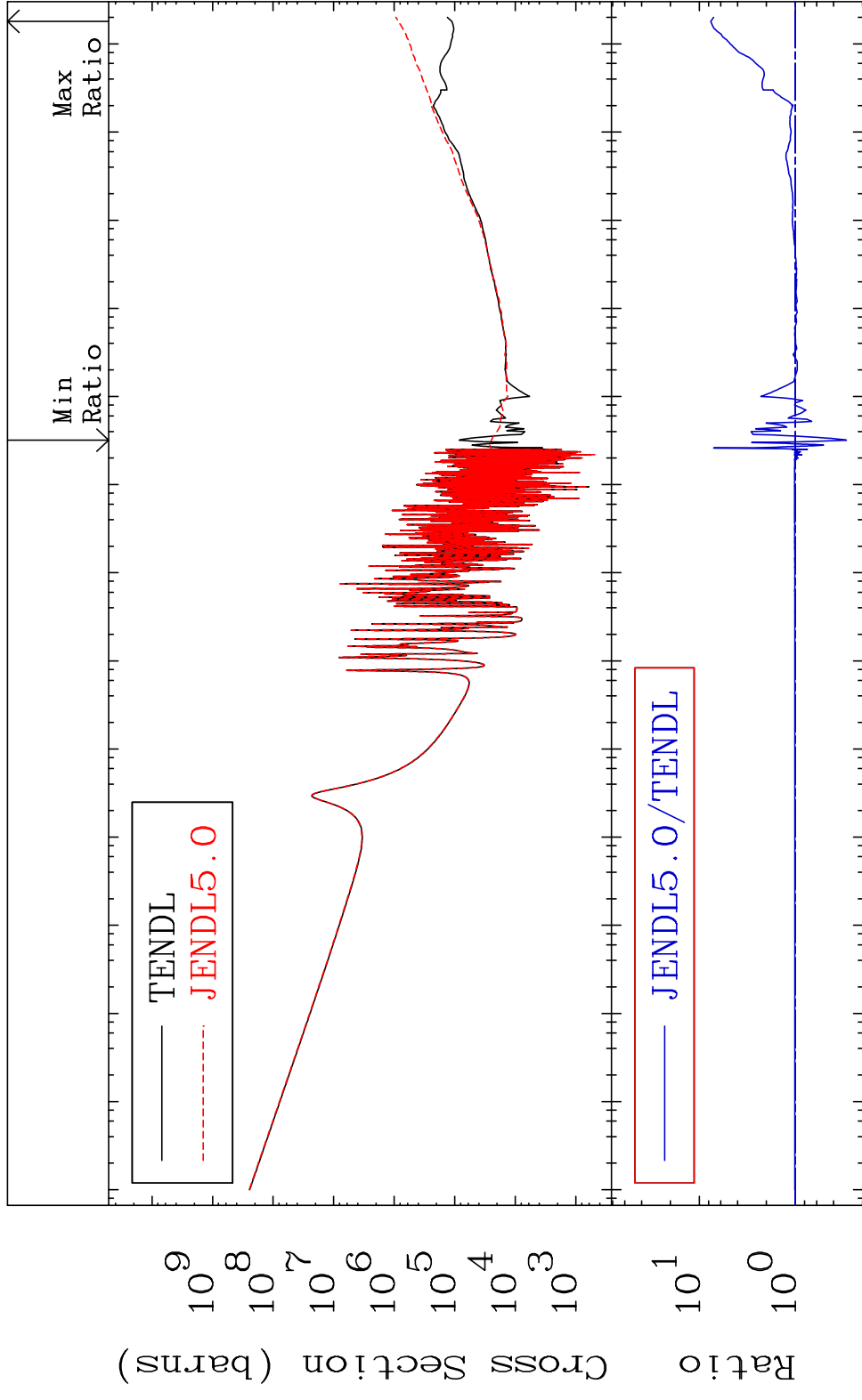


MAT 9437

Dpa total (eV-barns)

94-Pu-239

Cross Section -70.57 To 661.6 %

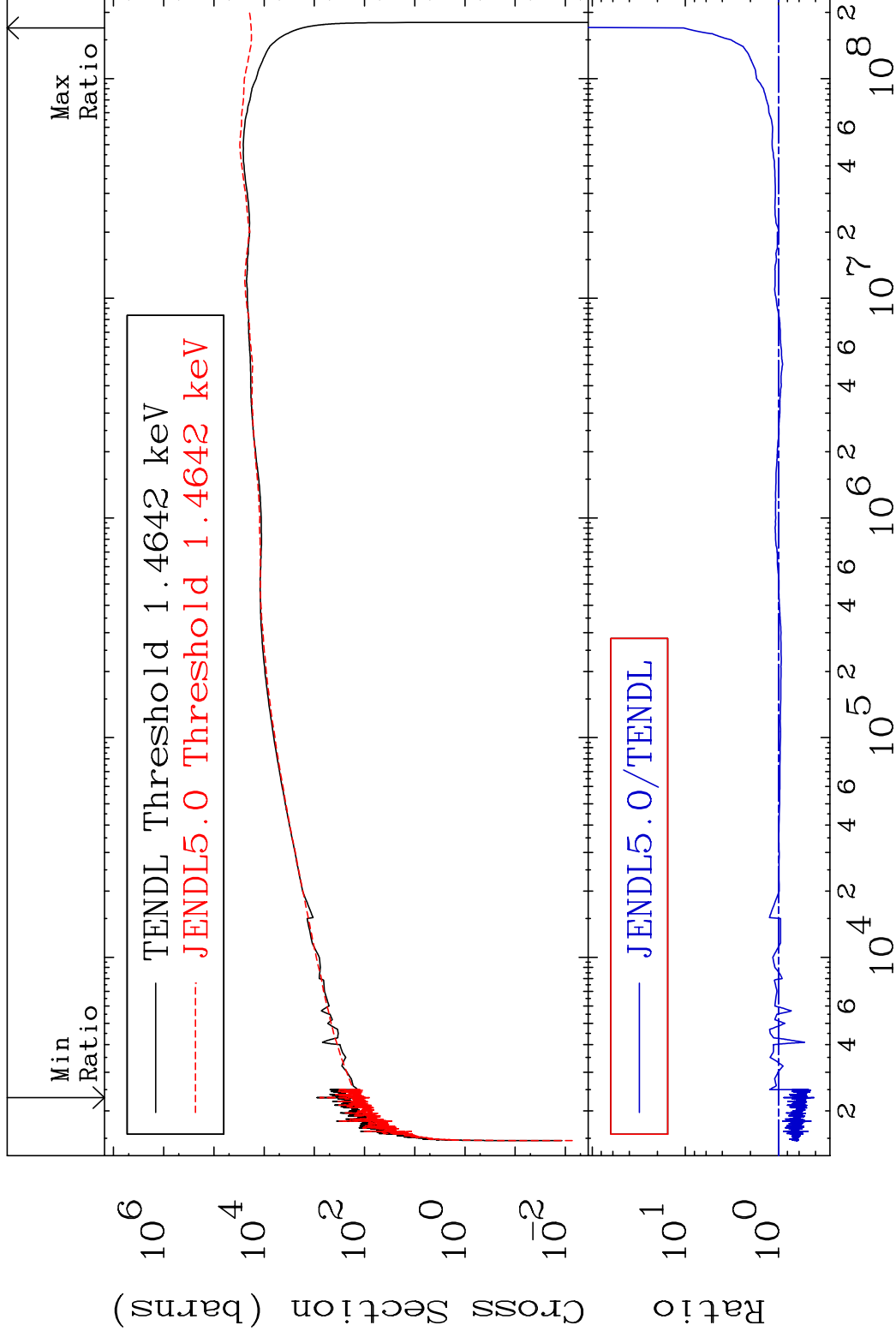


MAT 9437

Dpa elastic (mt2)

94-Pu-239

Cross Section -58.57 To 942.5 %

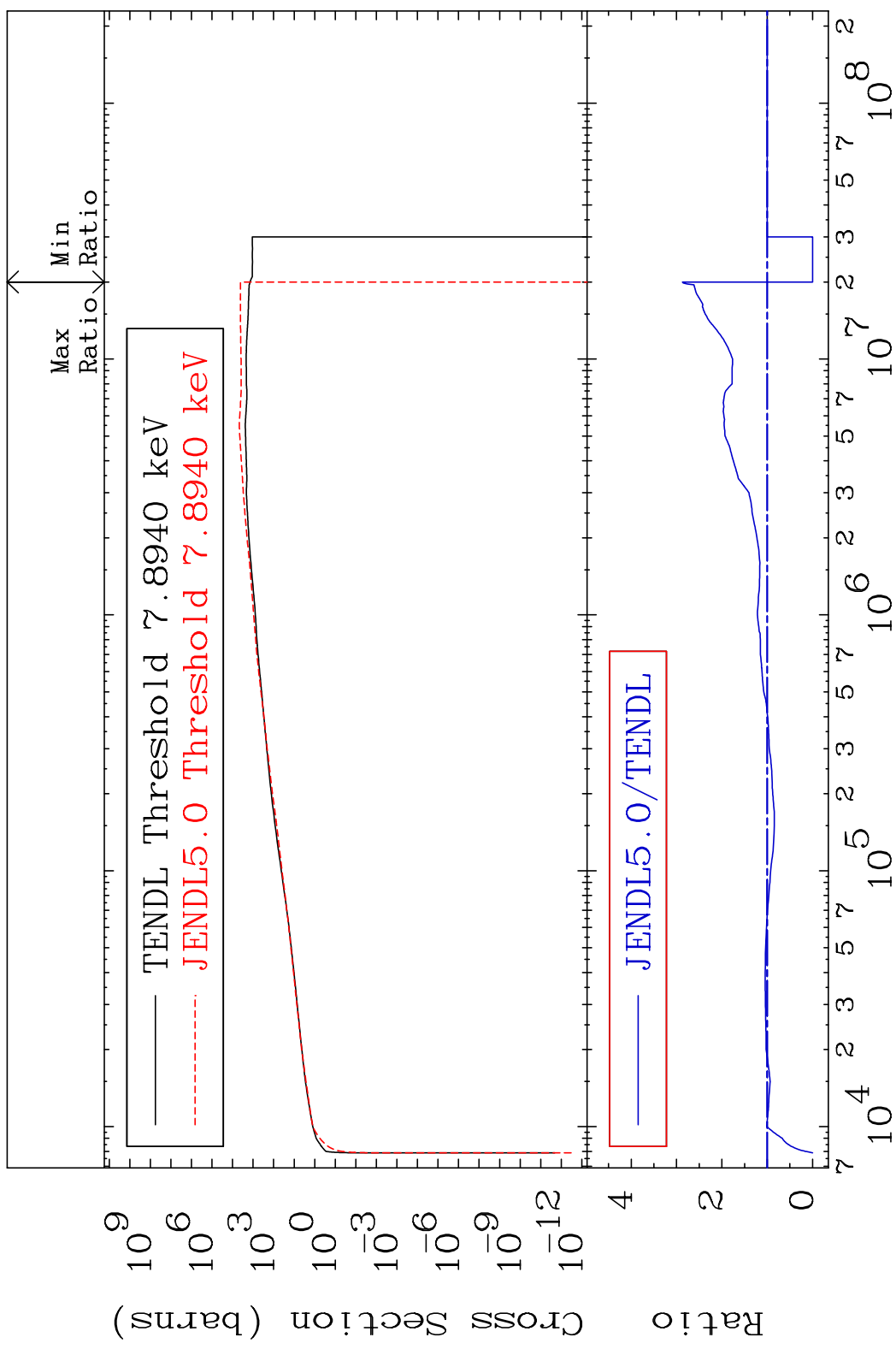


MAT 9437

Dpa inelastic (mt51-91)

94-Pu-239

Cross Section -100.0 To 187.2 %

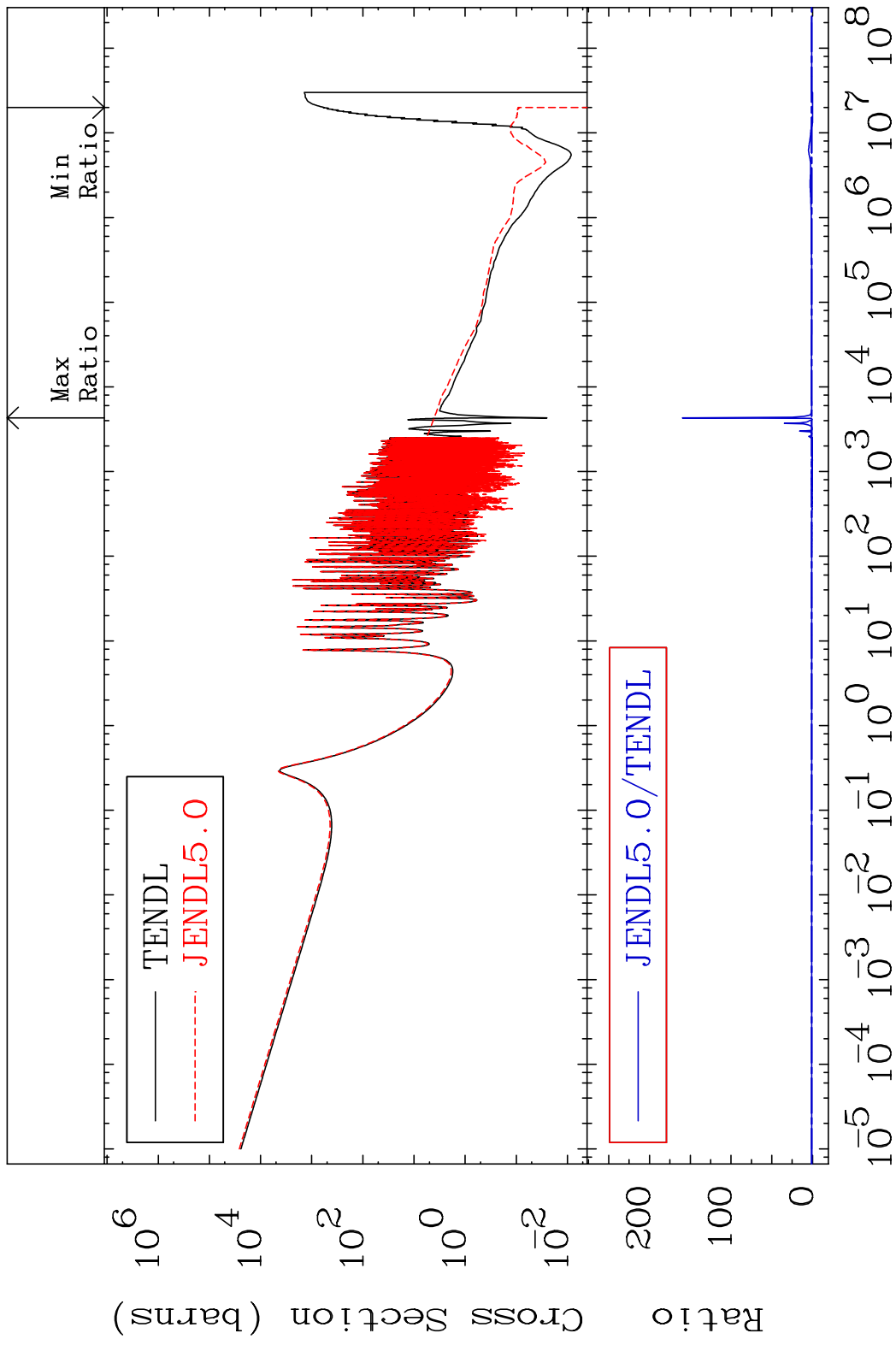


55

Incident Energy (eV)

94-Pu-239

MAT 9437 Dpa disappearance (mt102 -120) 94-Pu-239  
 Cross Section -100.0 To 9999. %

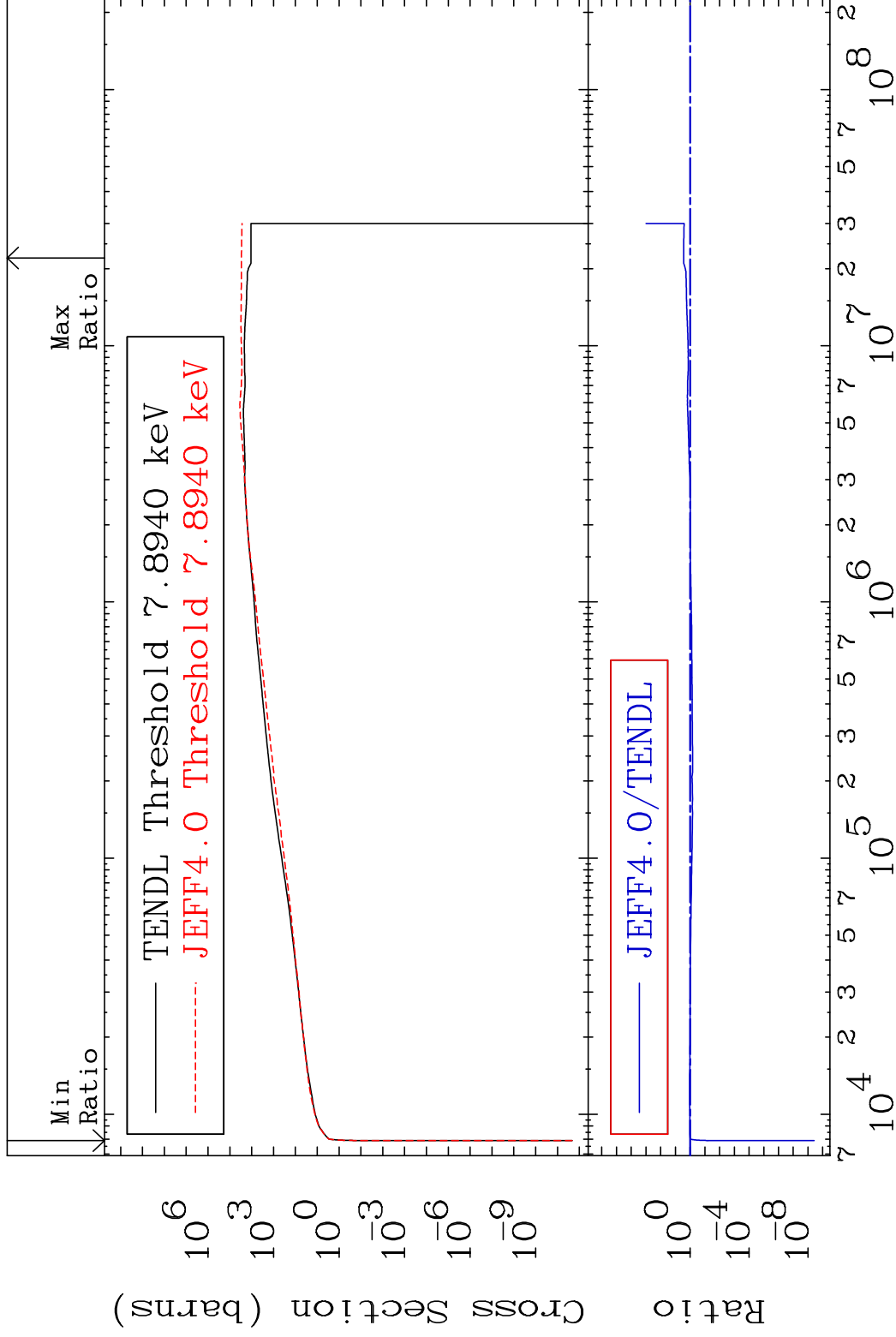


MAT 9437

Dpa inelastic (mt51-91)

94-Pu-239

Cross Section -100.0 To 174.2 %

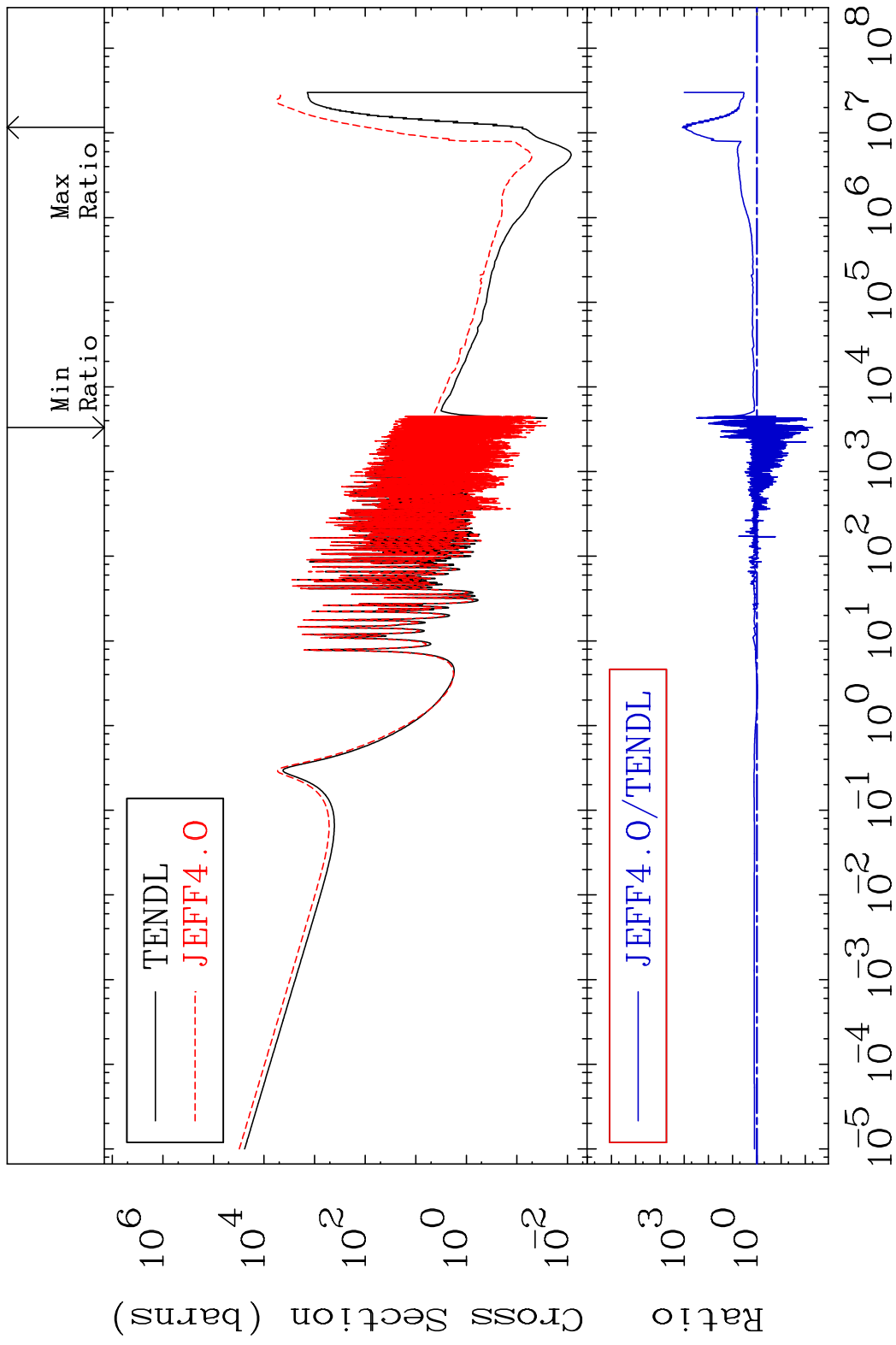


57

Incident Energy (eV)

94-Pu-239

MAT 9437 Dpa disappearance (mt102 -120) 94-Pu-239  
 Cross Section -99.50 To 9999. %





MAT 9437 (n,3n) p:93-Np-236m1 94-Pu-239  
 Radionuclide Production Cross Section Ratio 9999. %

