

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

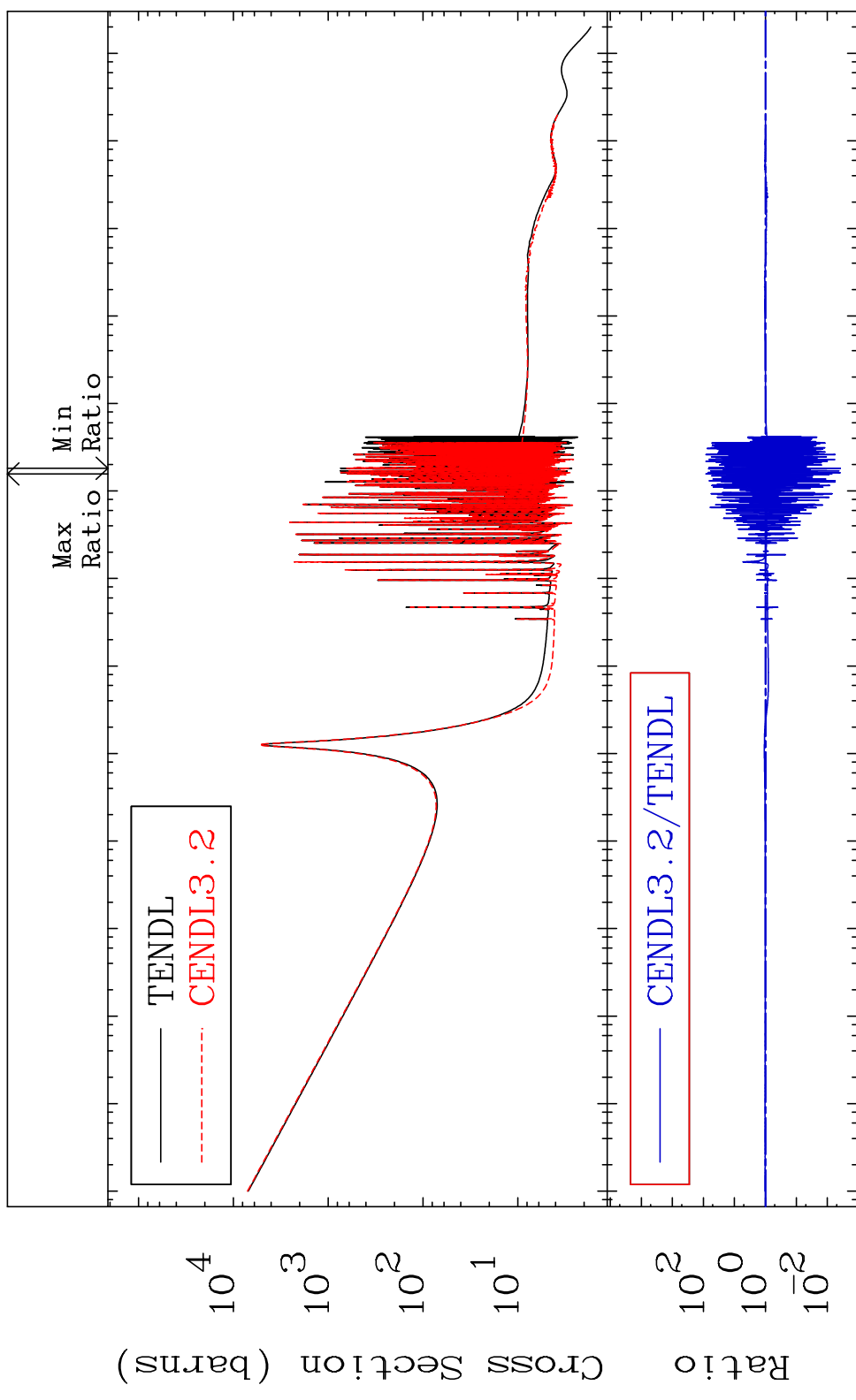
Press Mouse Button to Start

MAT 4525

Total

45-Rh-103

Cross Section -99.62 To 8261. %



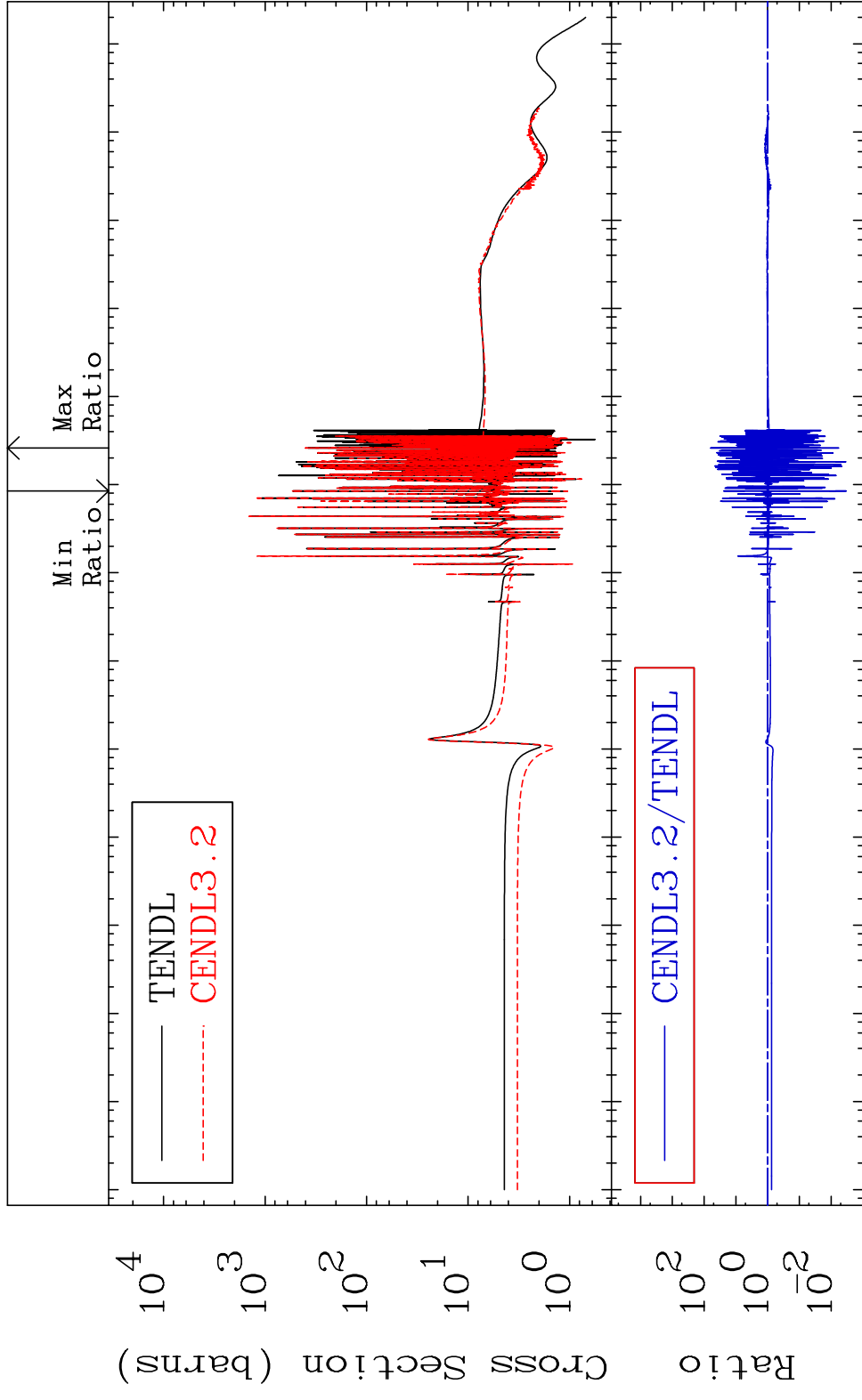
1

Incident Energy (eV)

45-Rh-103

MAT 4525

Elastic Cross Section -99.67 To 6074. %  
45-Rh-103

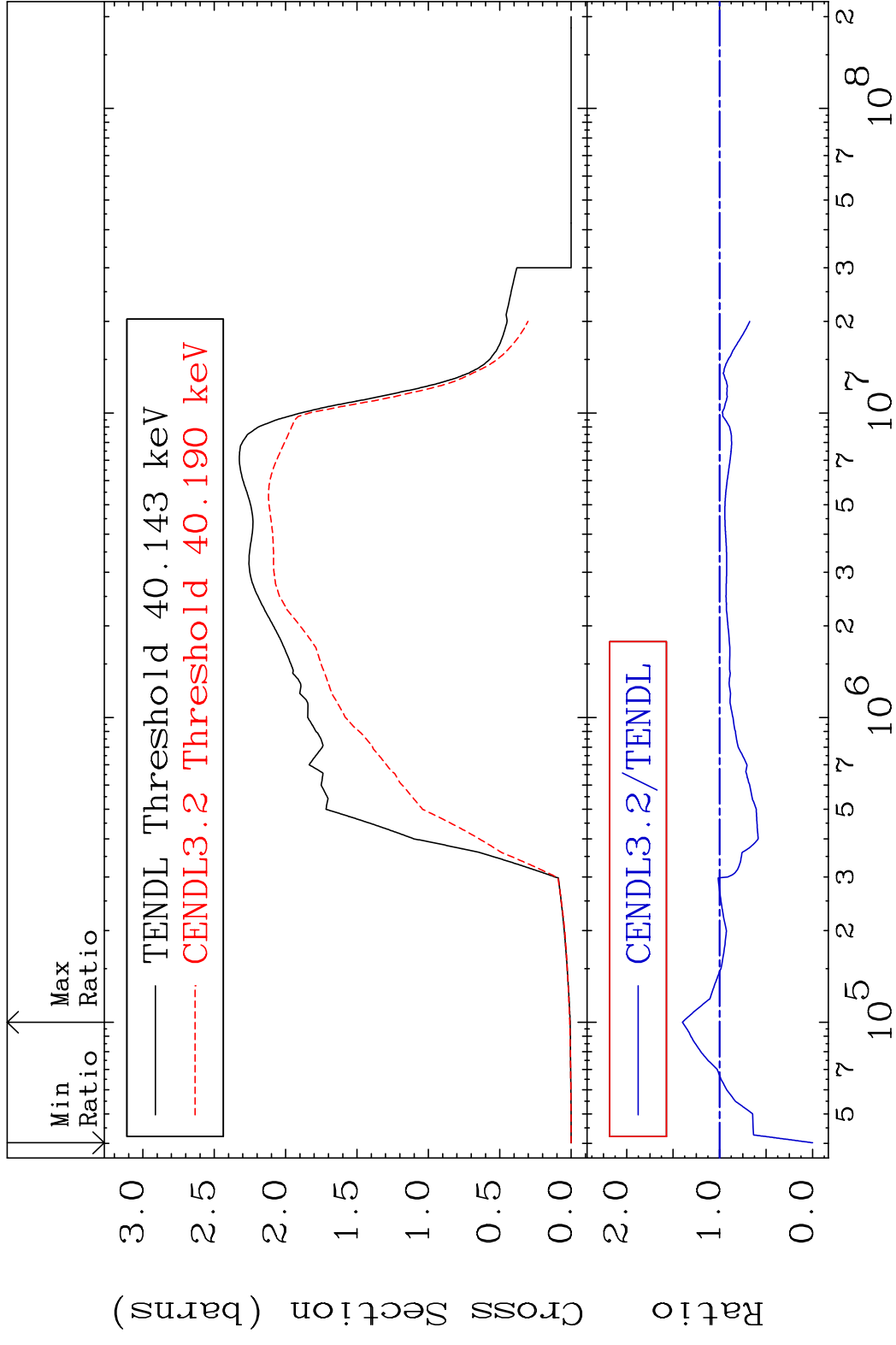


2

Incident Energy (eV)

45-Rh-103

MAT 4525 Inelastic 45-Rh-103  
 Cross Section -100.0 To 40.08 %

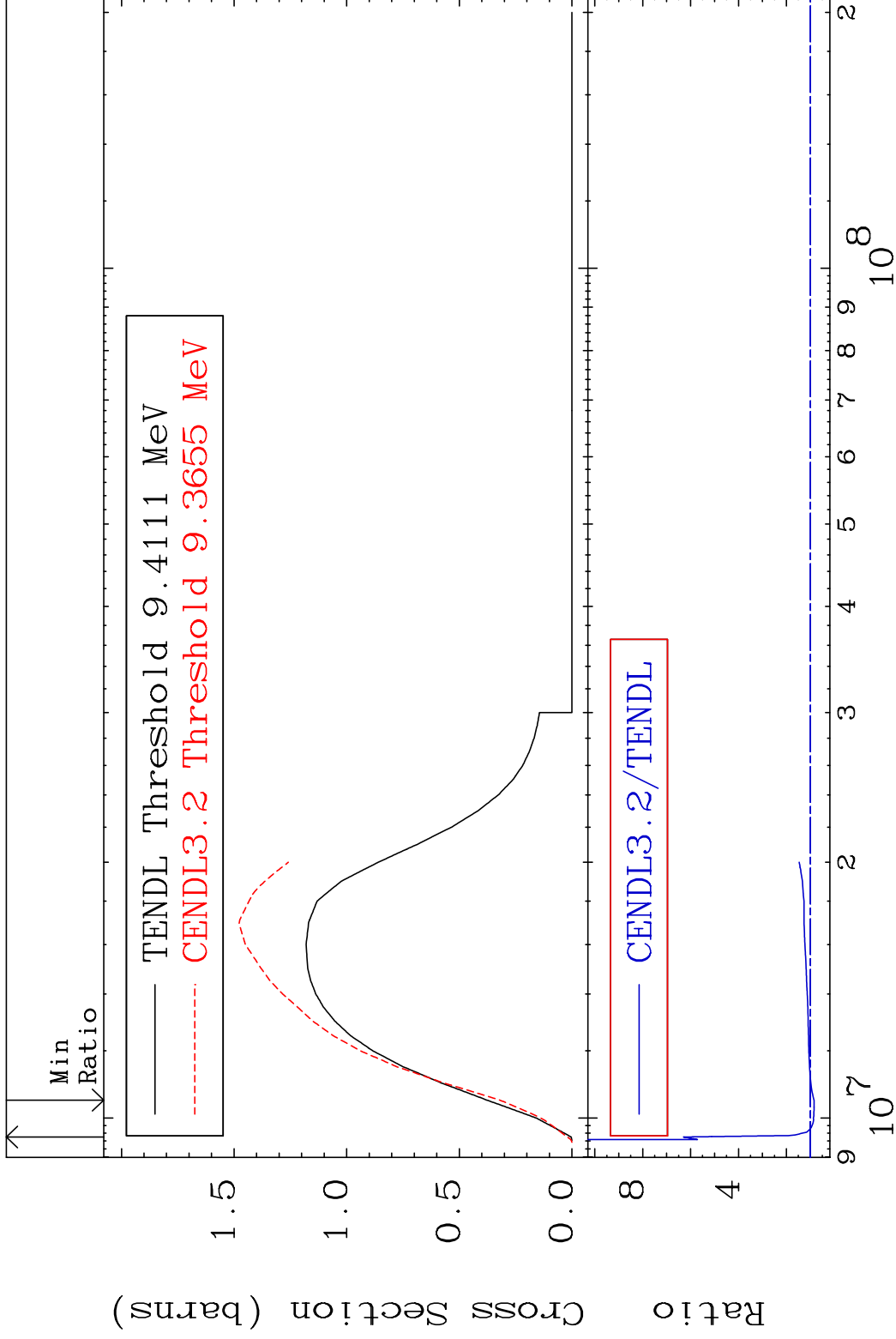


MAT 4525

(n,2n)

45-Rh-103

Cross Section -15.34 To 529.9 %



4

Incident Energy (eV)

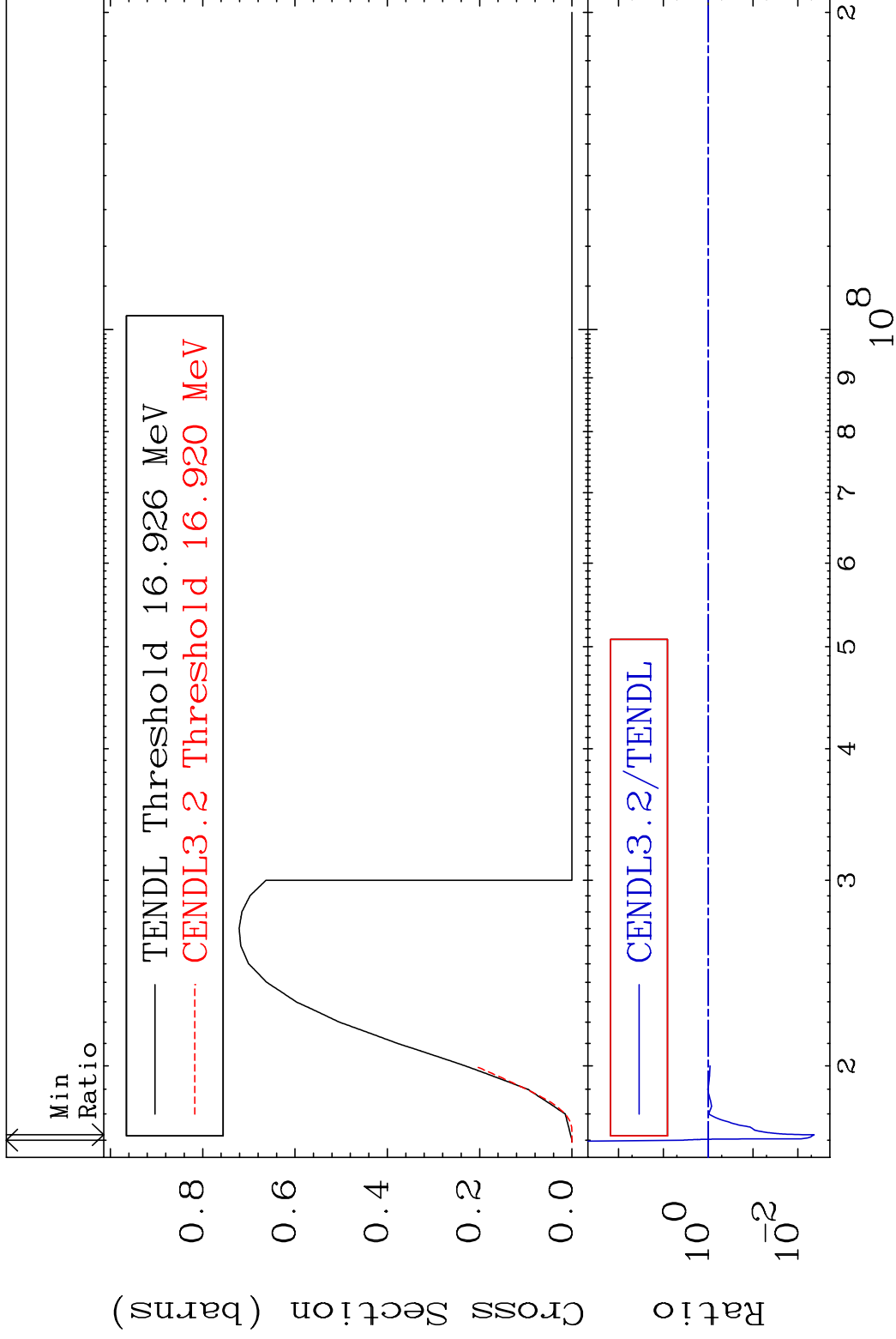
45-Rh-103

MAT 4525

(n,3n)

45-Rh-103

Cross Section -99.56 To 256.6 %

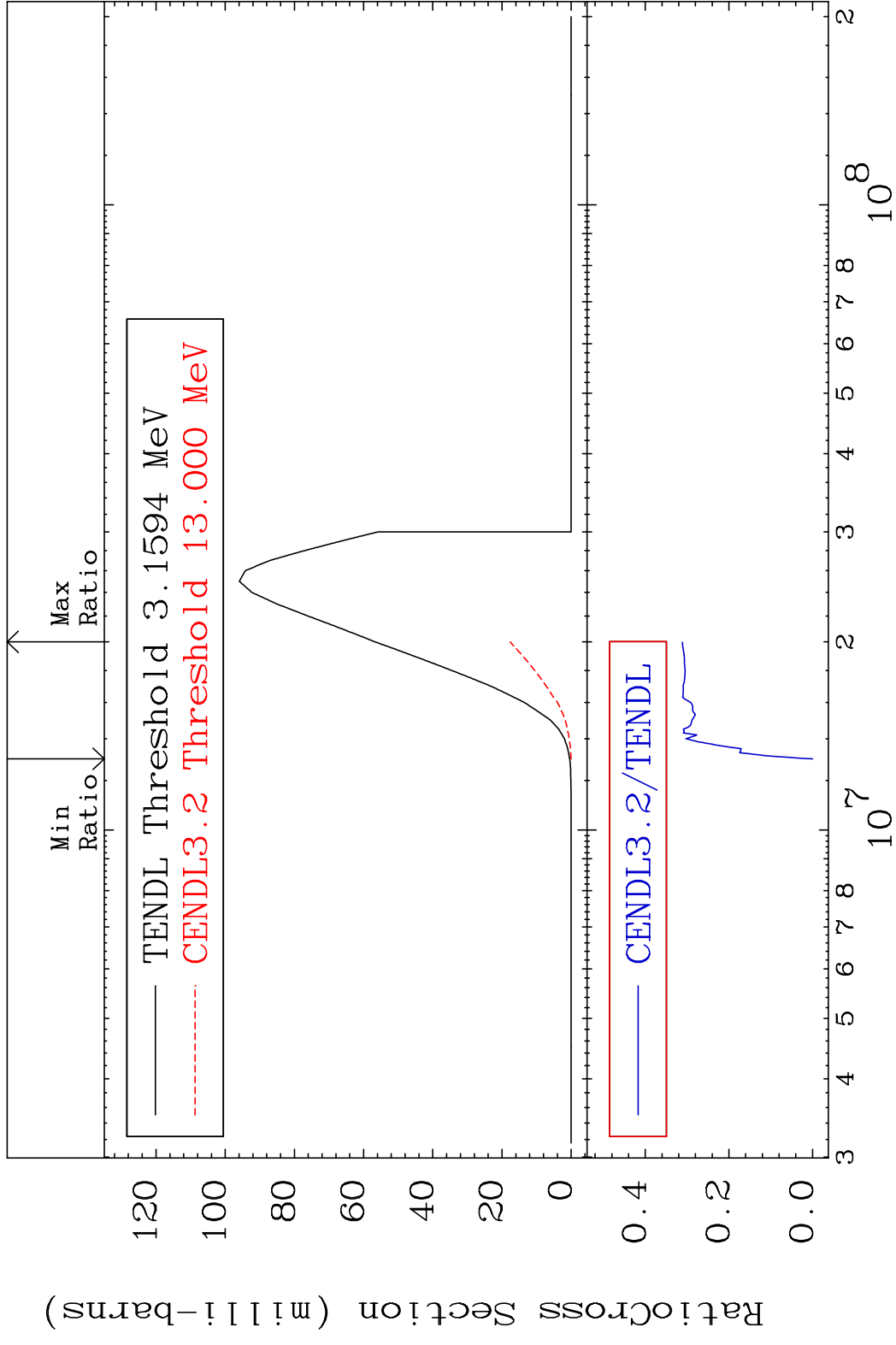


5

Incident Energy (eV)

45-Rh-103

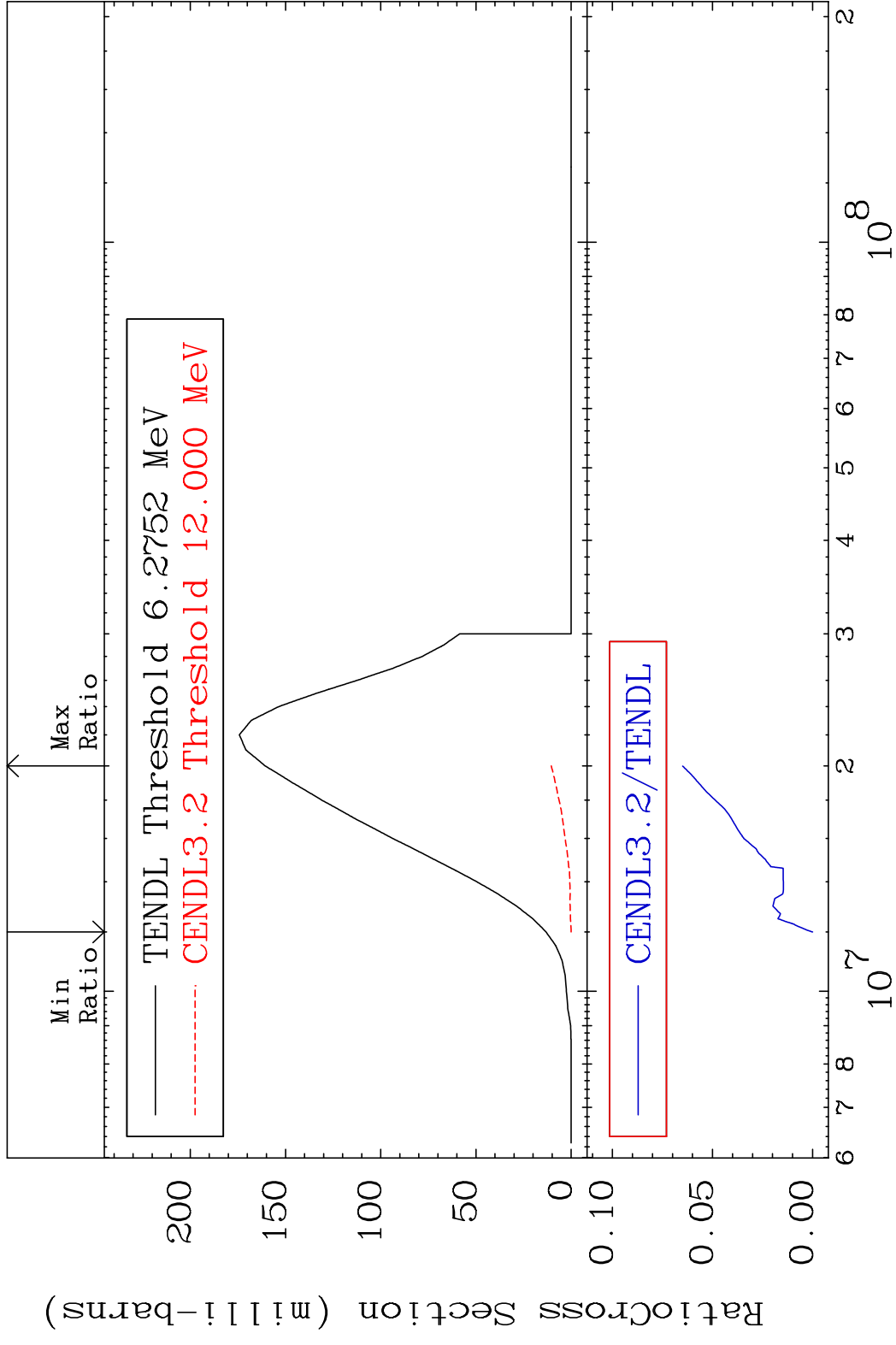
MAT 4525 (n, n')  $\alpha$  45-Rh-103  
 Cross Section -100.0 To -68.86%



MAT 4525

(n, n') p 45-Rh-103

Cross Section -100.0 To -93.49%



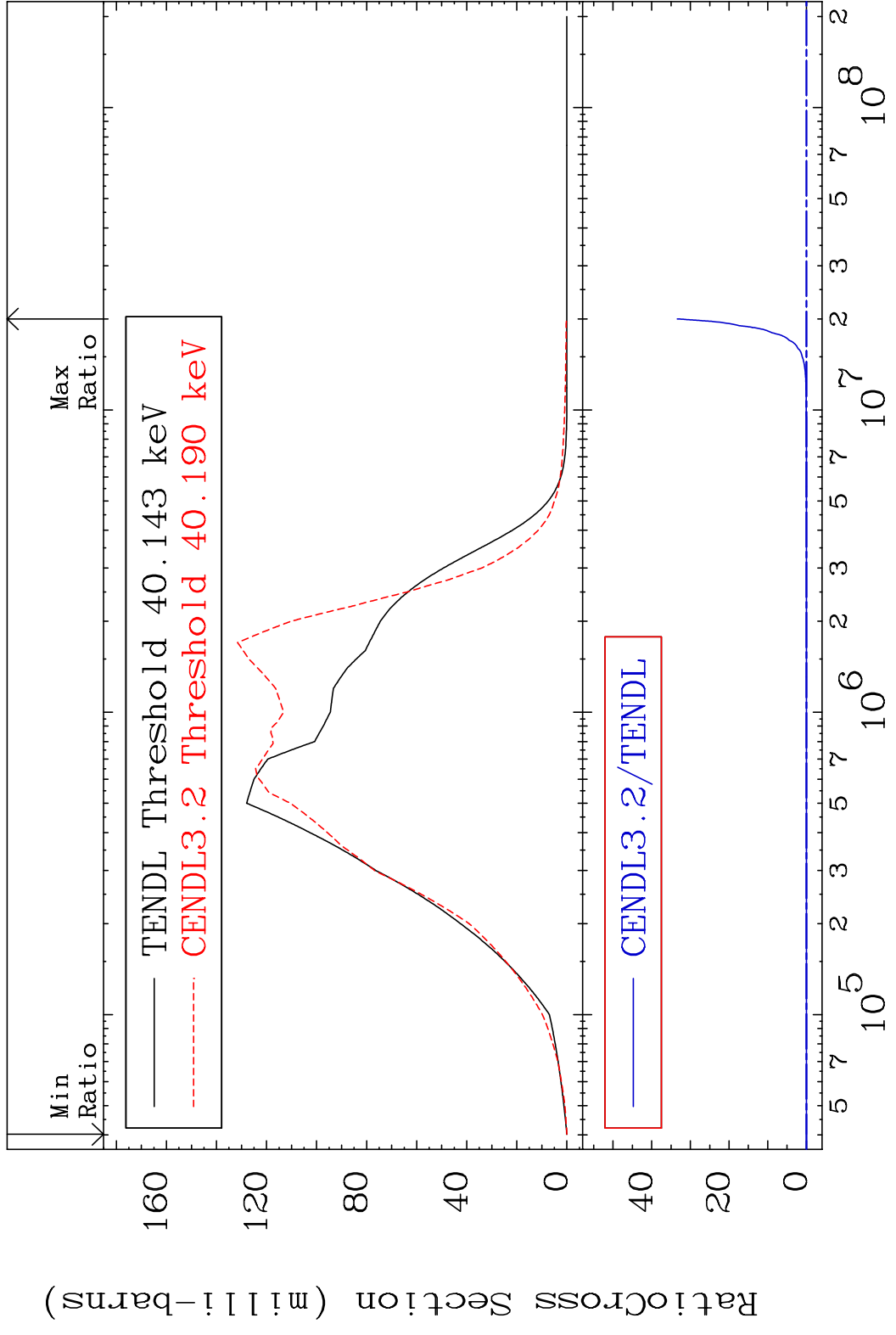
7

Incident Energy (eV)

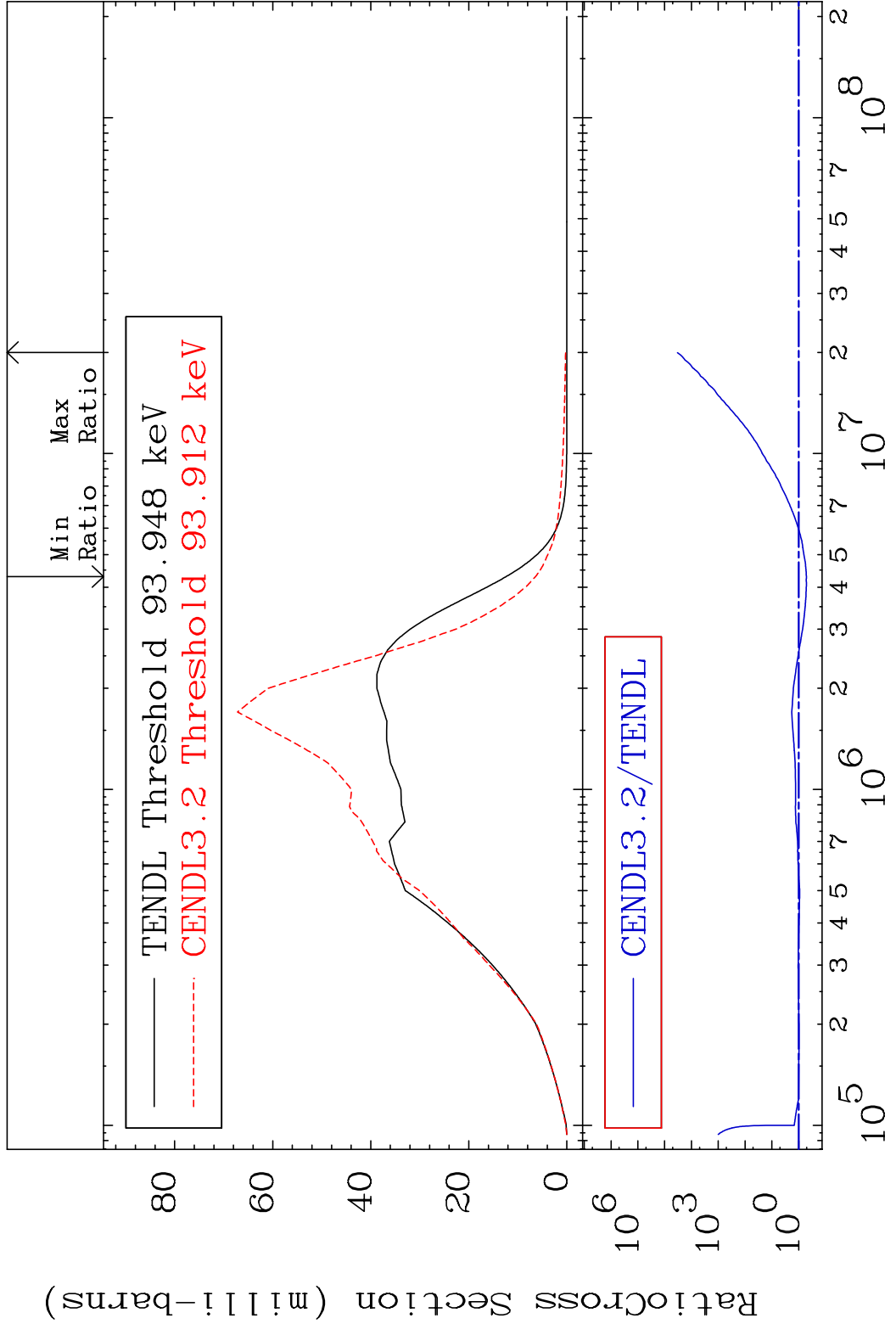
45-Rh-103



MAT 4525 MT= 51 (n,n') Level 45-Rh-103  
 Cross Section -100.0 To 9999. %

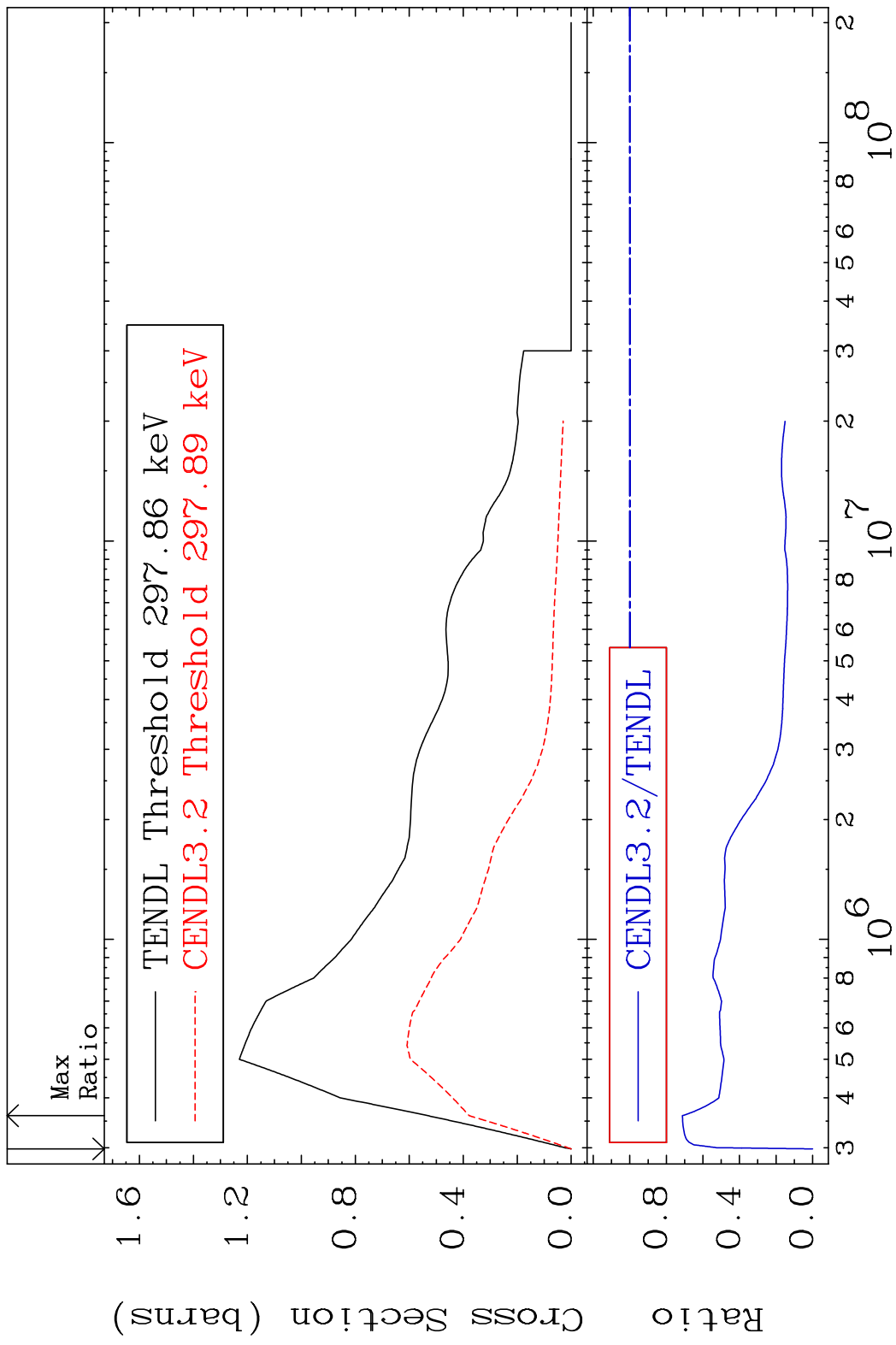


MAT 4525 MT= 52 (n, n') Level 45-Rh-103  
 Cross Section -48.53 To 9999. %



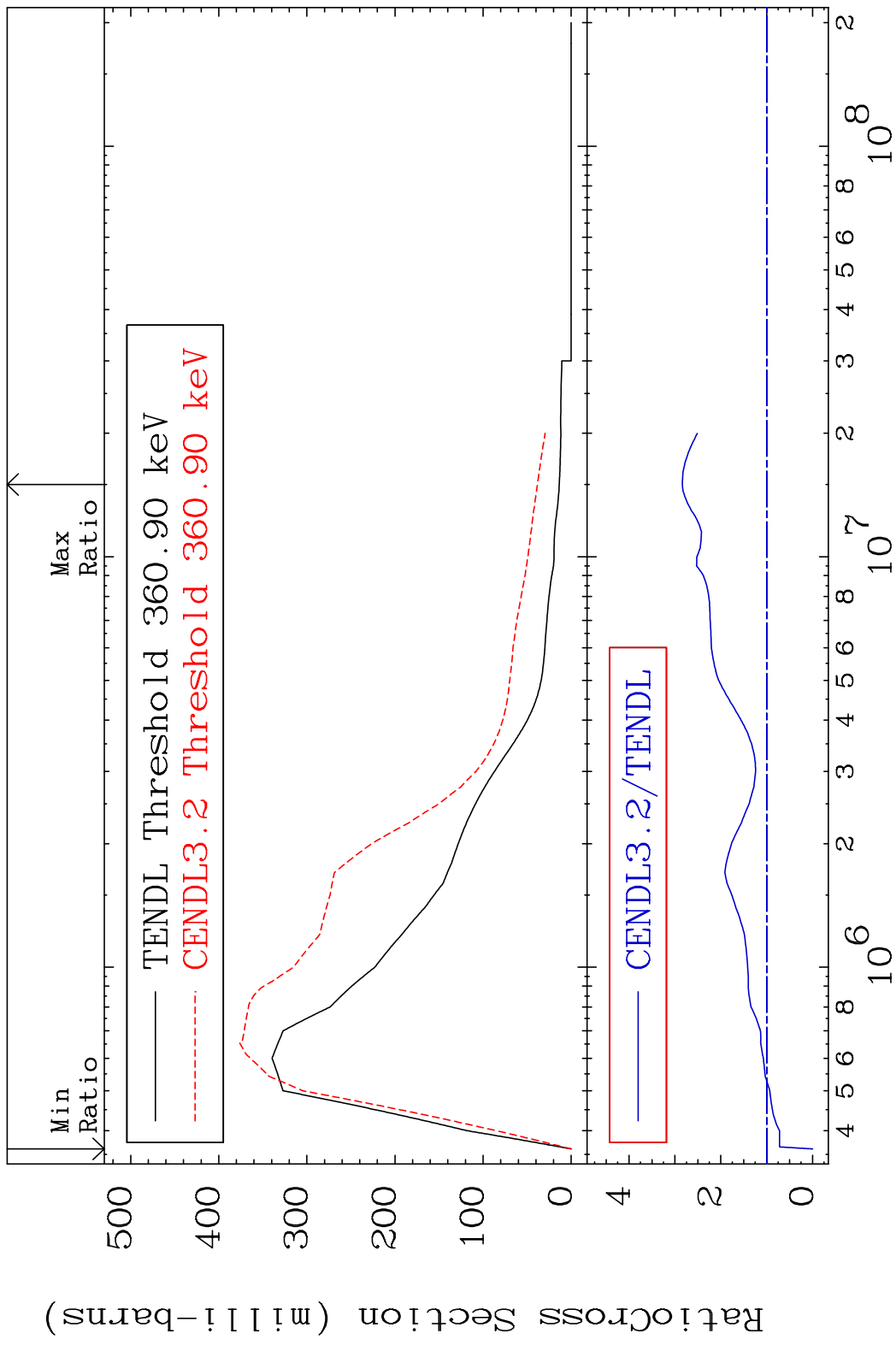
9 Incident Energy (eV) 45-Rh-103

MAT 4525 MT= 53 (n,n') Level 45-Rh-103  
 Cross Section -100.0 To -28.75%

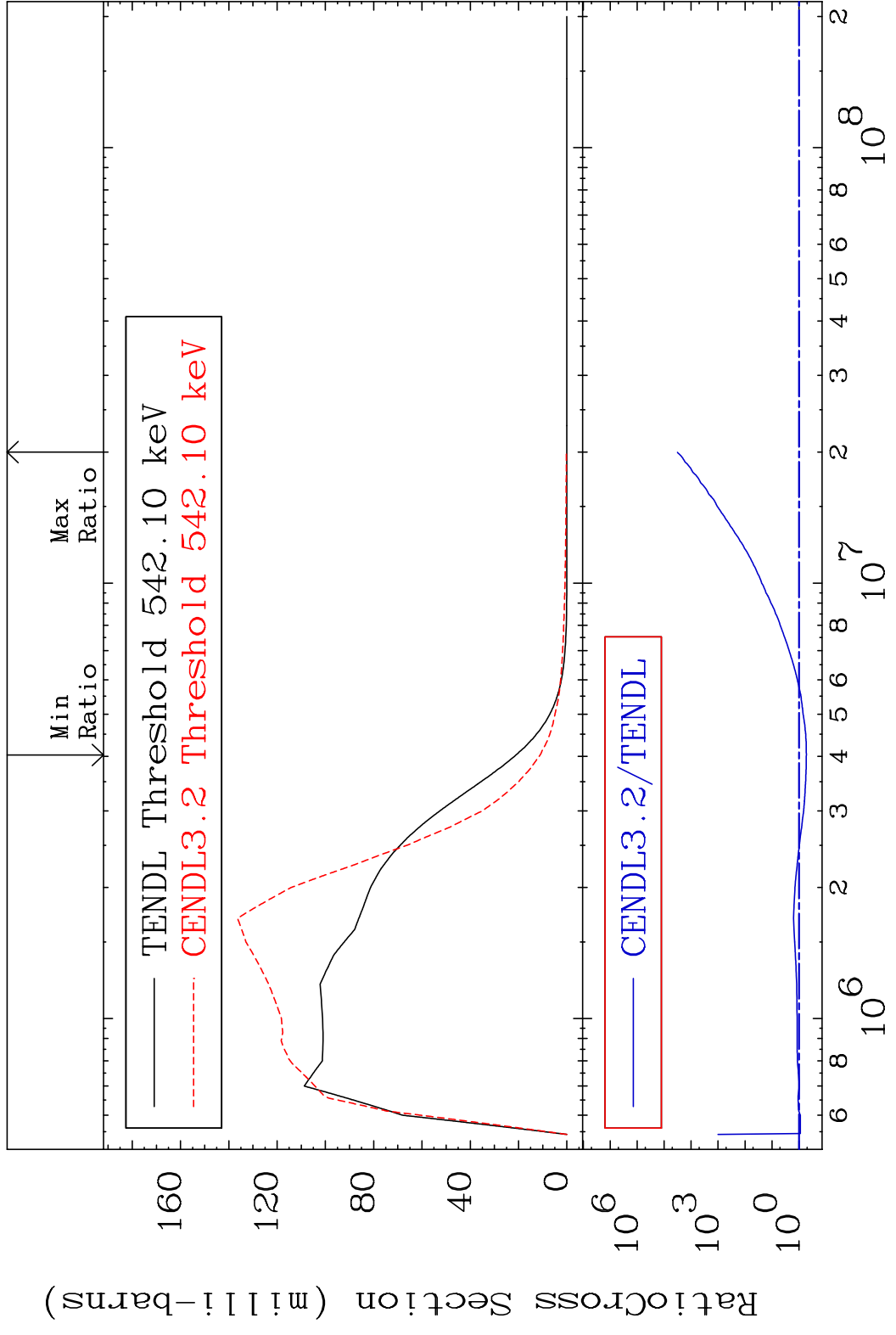


10 Incident Energy (eV) 45-Rh-103

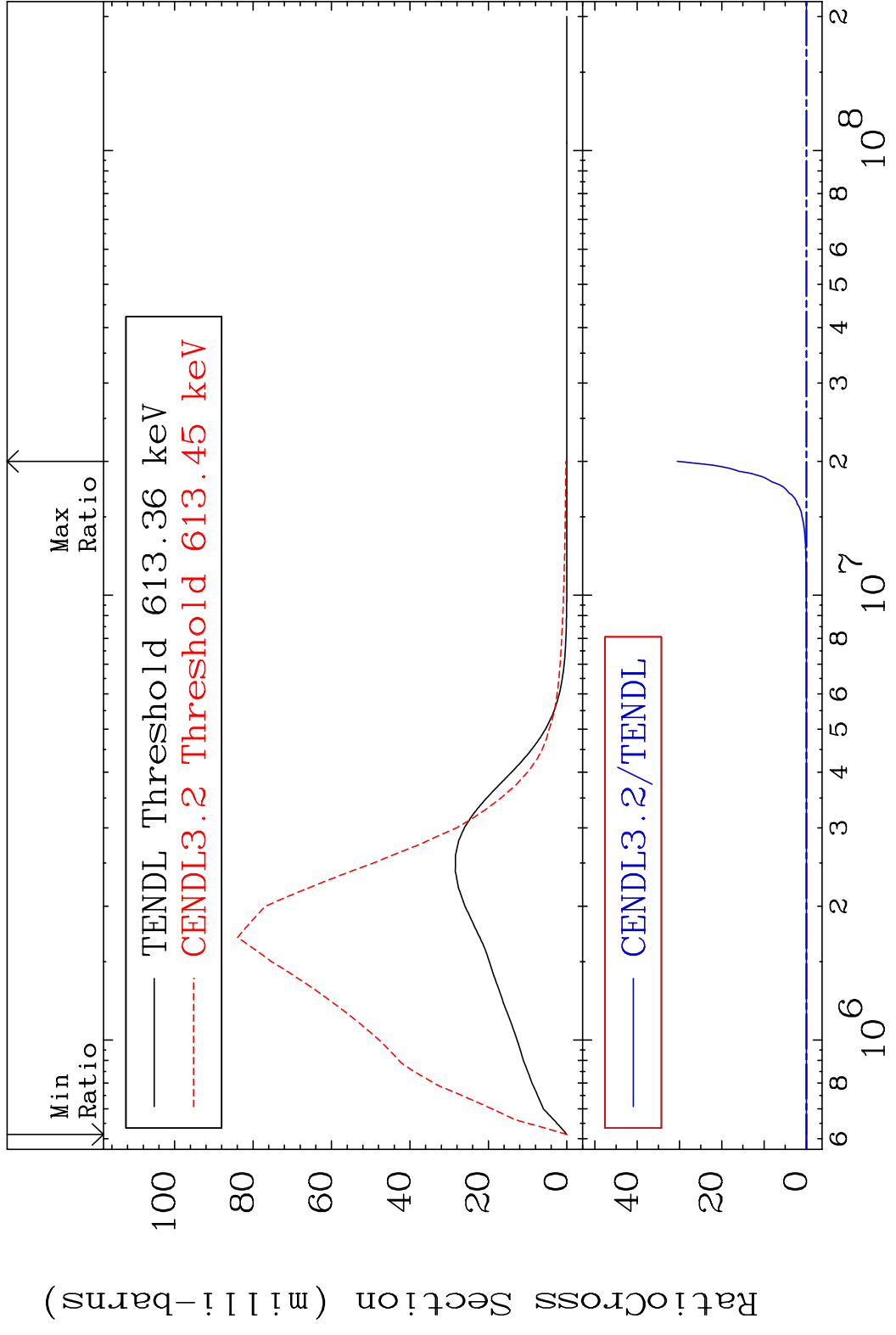
MAT 4525 MT= 54 (n, n') Level 45-Rh-103  
 Cross Section -100.0 To 183.8 %



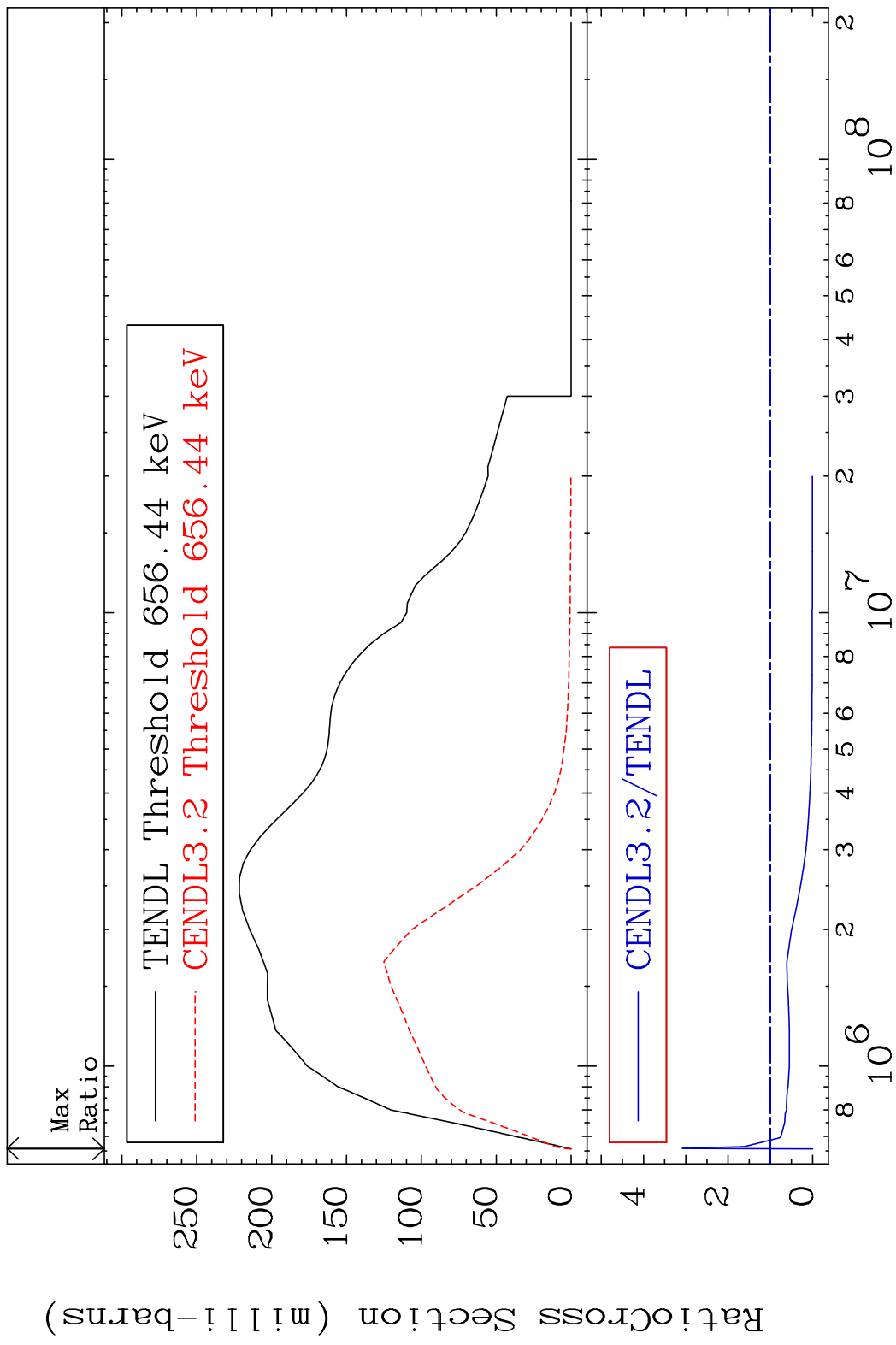
MAT 4525 MT= 55 (n, n') Level 45-Rh-103  
 Cross Section -47.27 To 9999. %



MAT 4525 MT= 56 (n, n') Level 45-Rh-103  
 Cross Section -100.0 To 9999. %

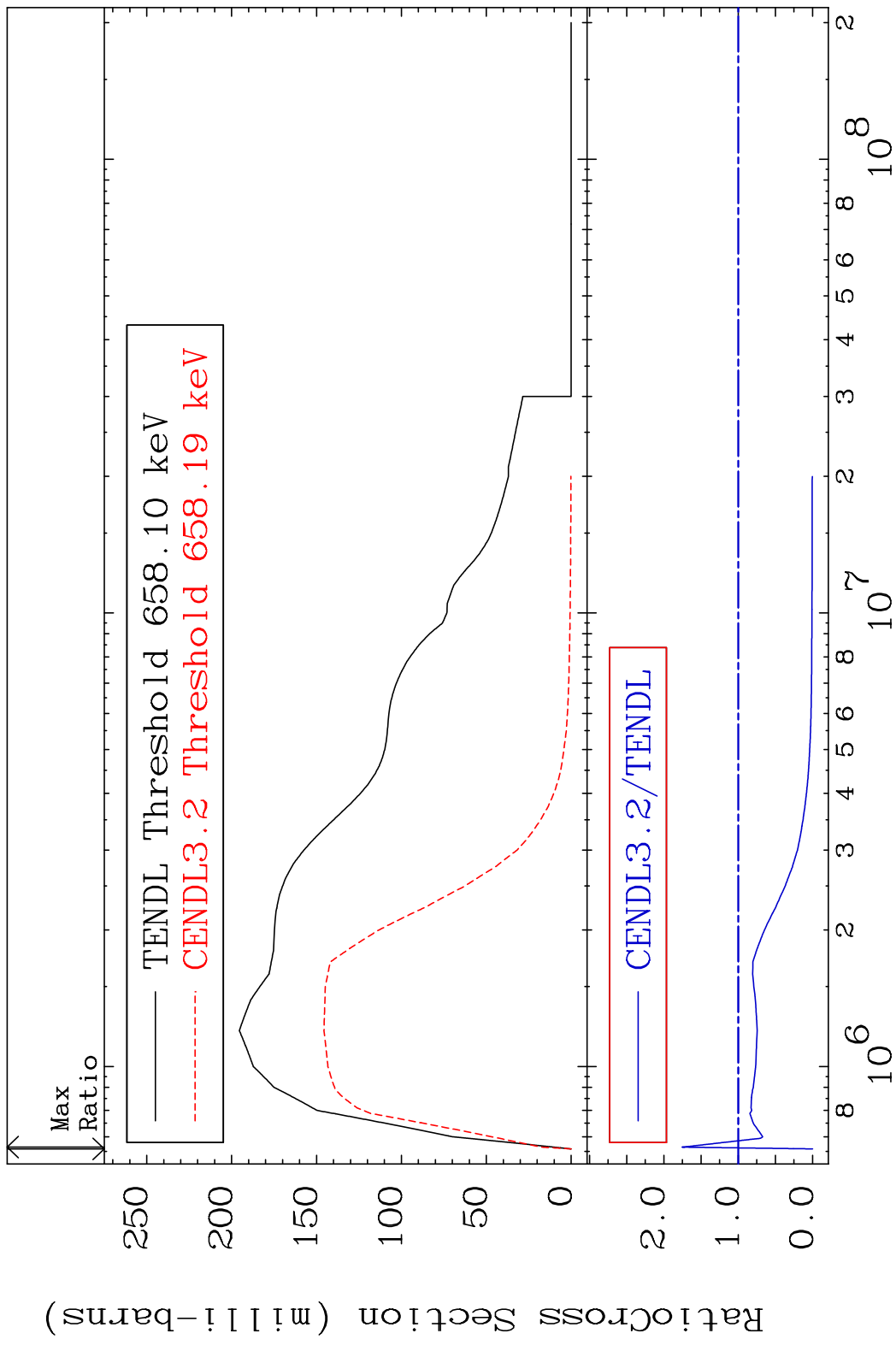


MAT 4525 MT= 57 (n, n') Level 45-Rh-103  
 Cross Section -100.0 To 208.2 %



14 Incident Energy (eV) 45-Rh-103

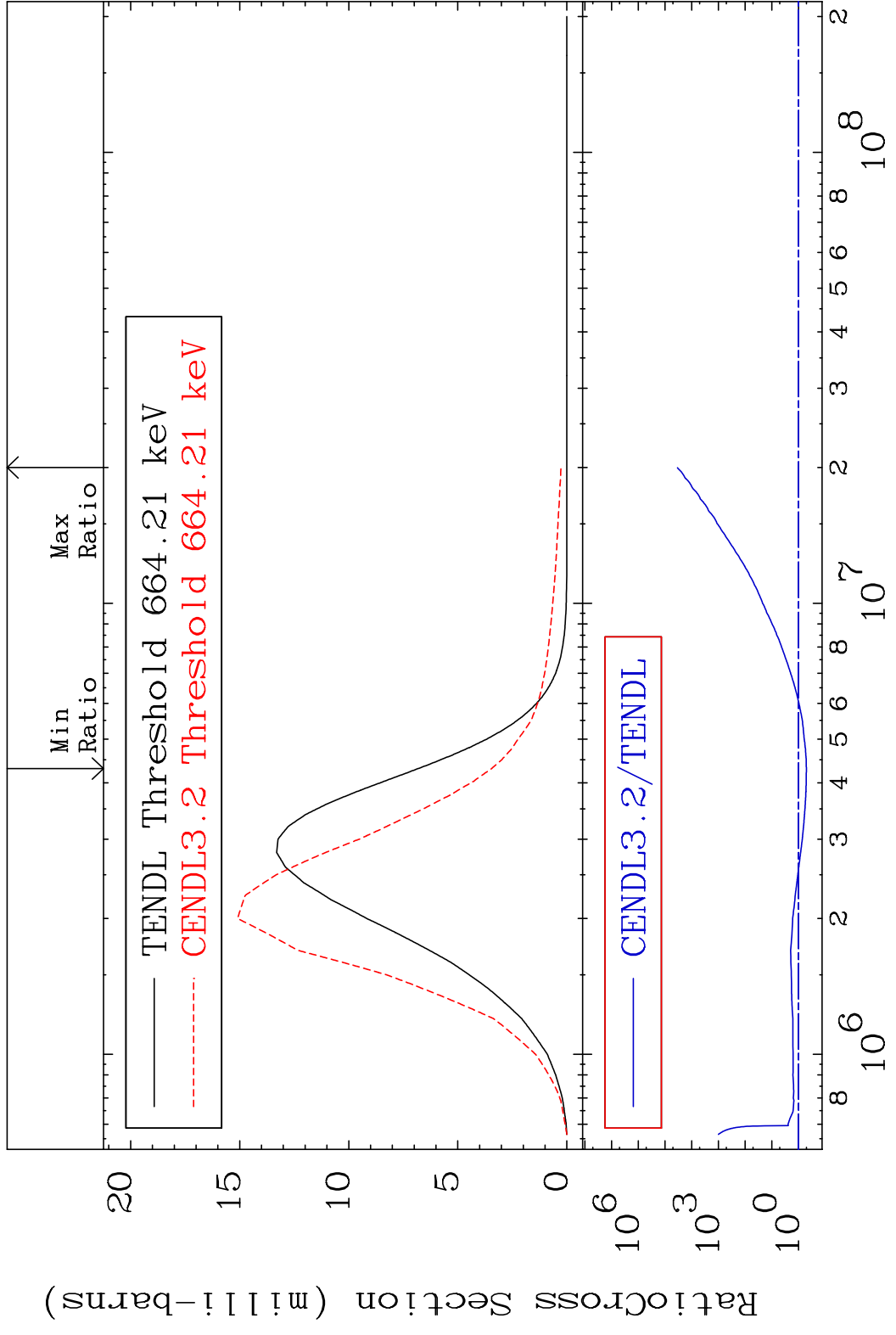
MAT 4525 MT= 58 (n,n') Level 45-Rh-103  
 Cross Section -100.0 To 75.14 %



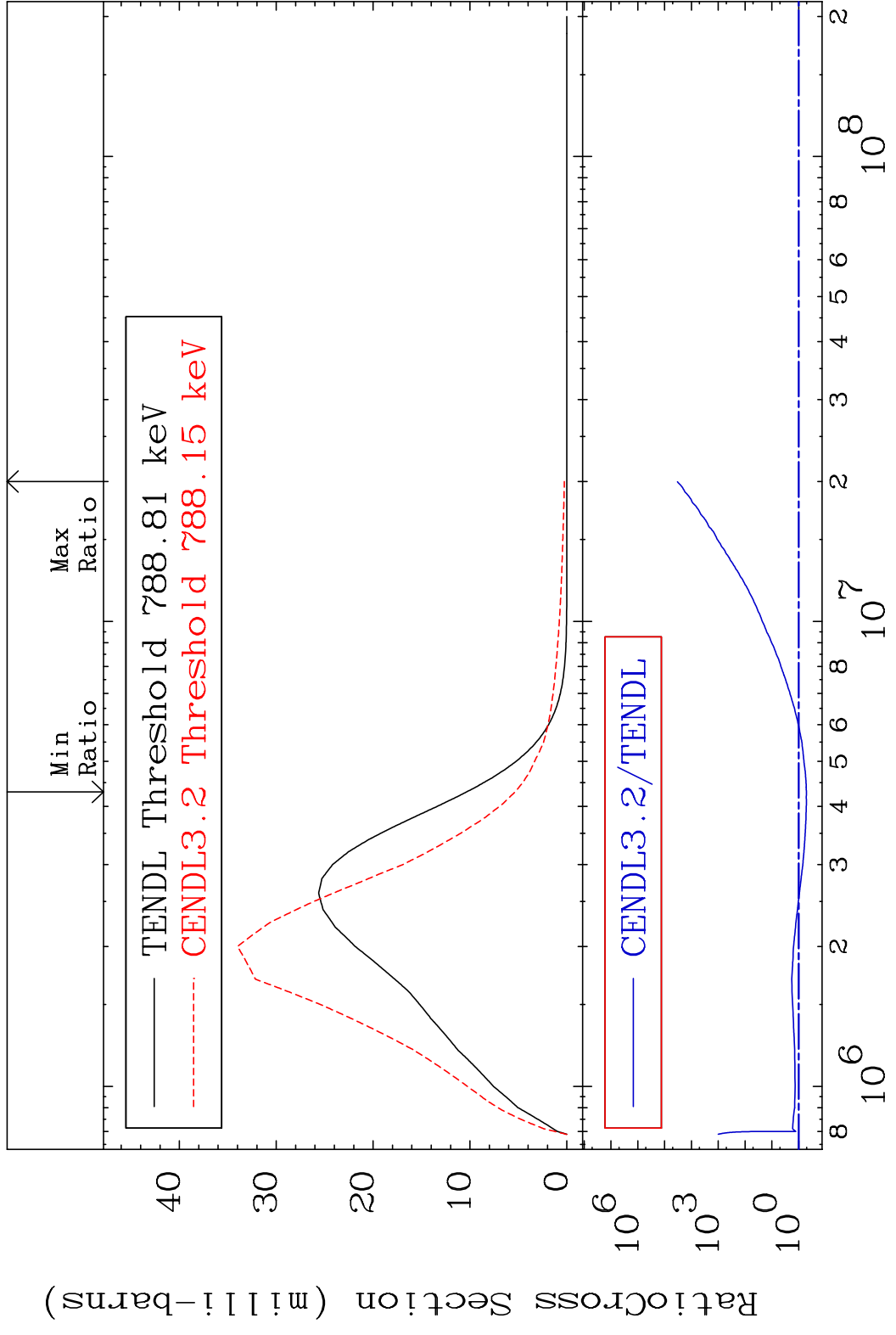
15 Incident Energy (eV) 45-Rh-103



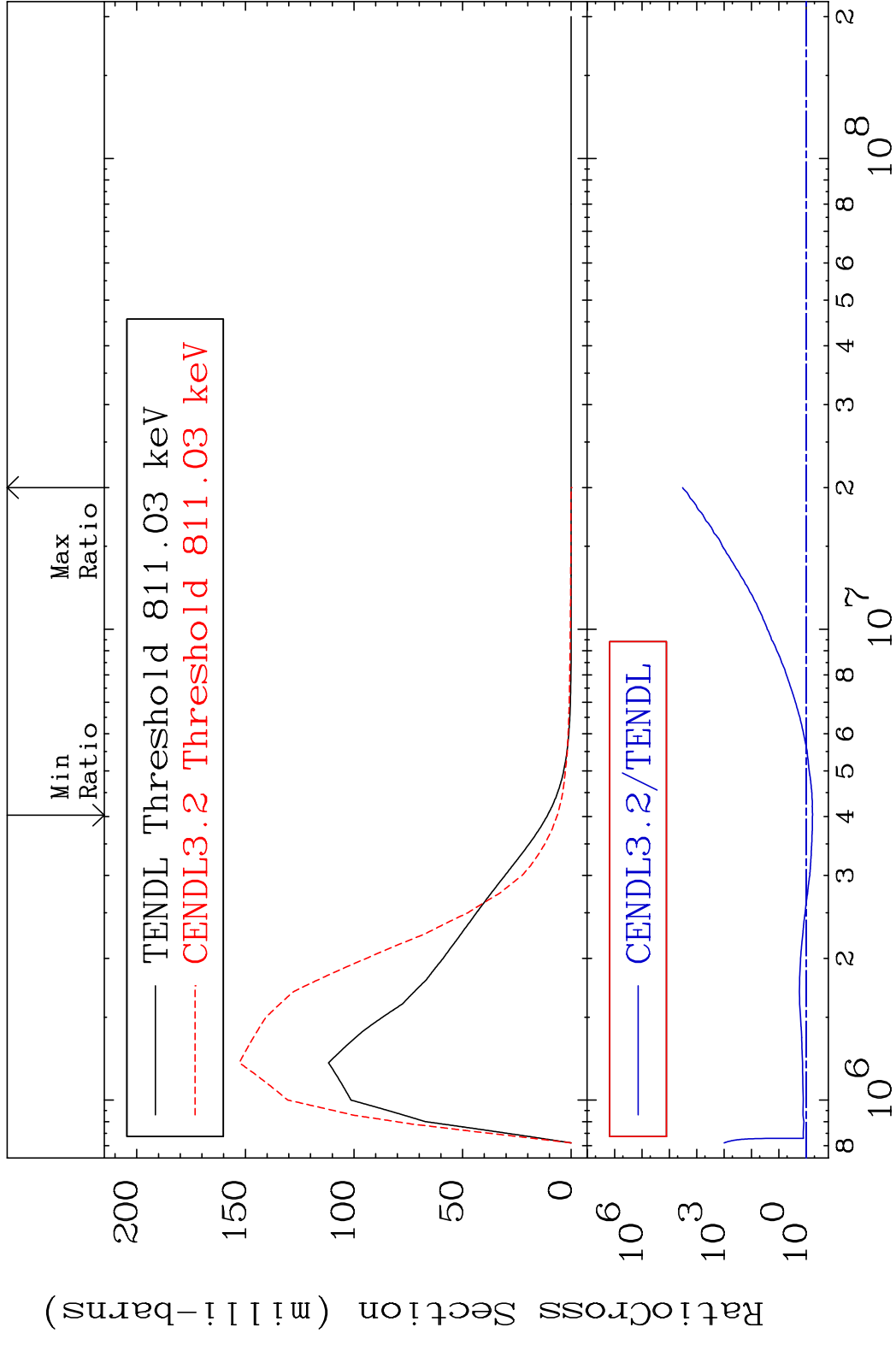
MAT 4525 MT= 59 (n, n') Level 45-Rh-103  
 Cross Section -49.39 To 9999. %



MAT 4525 MT= 60 (n, n') Level 45-Rh-103  
 Cross Section -48.48 To 9999. %

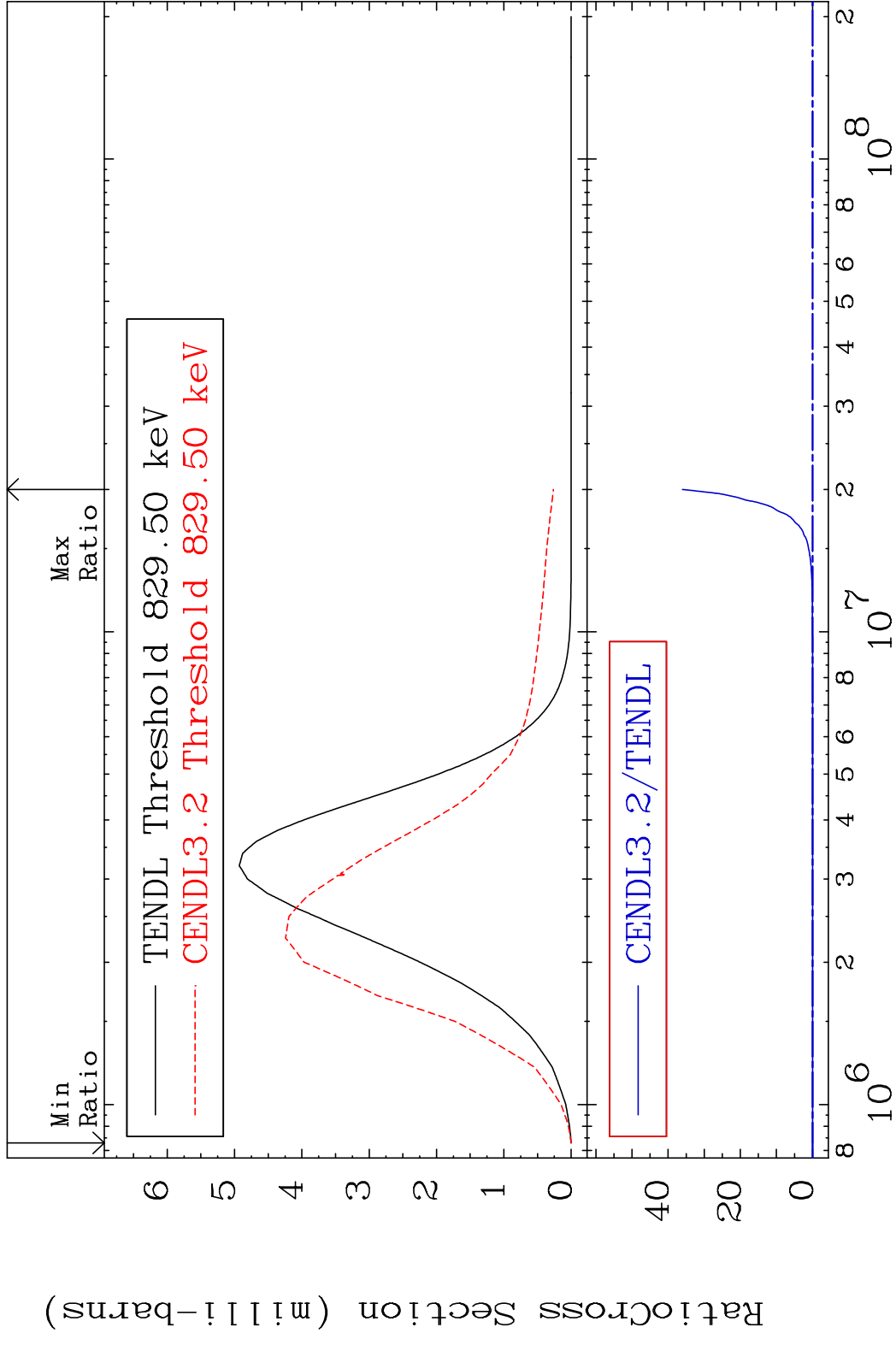


MAT 4525 MT= 61 (n, n') Level 45-Rh-103  
 Cross Section -41.44 To 9999. %



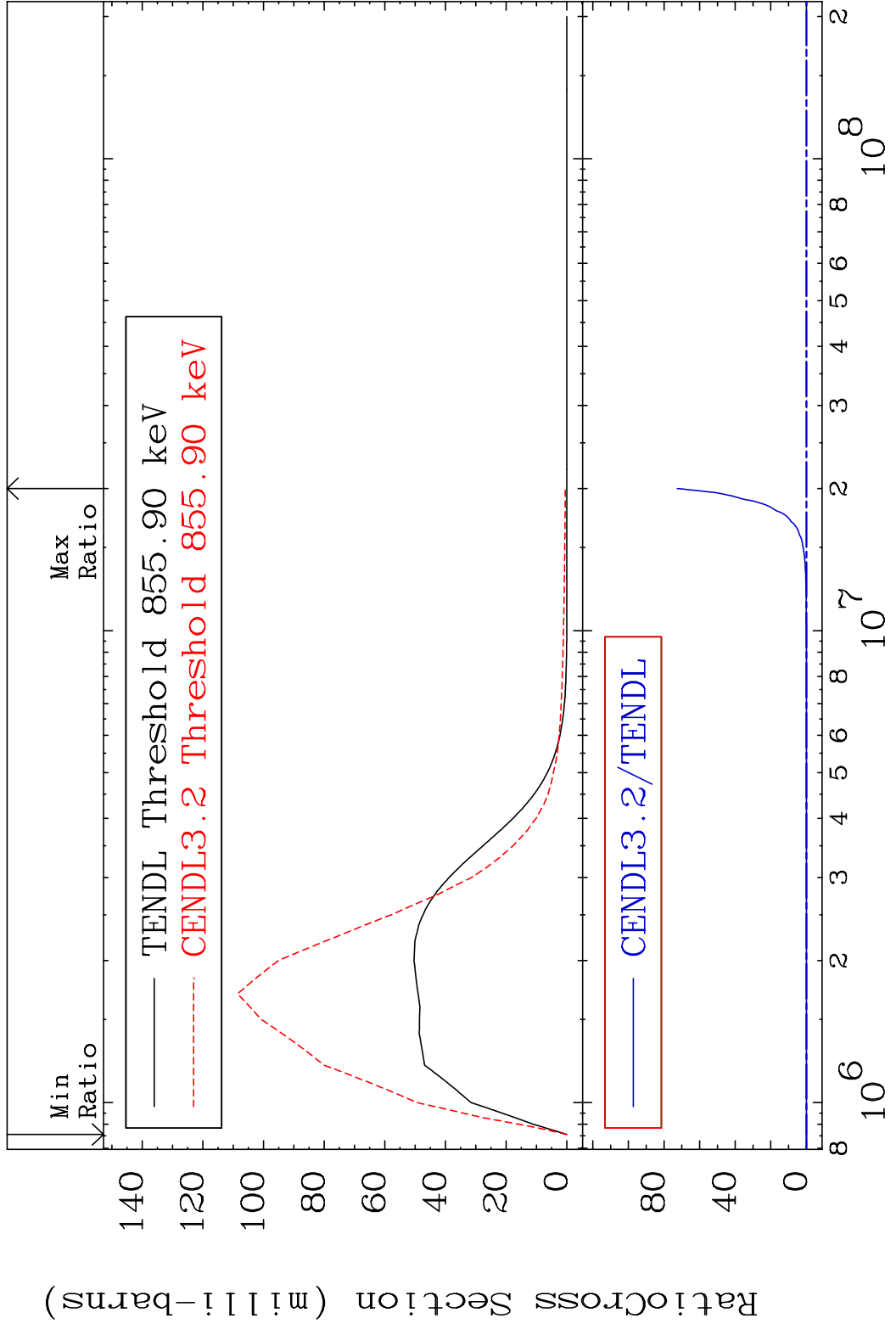
18 18 Incident Energy (eV) 45-Rh-103

MAT 4525 MT= 62 (n, n') Level 45-Rh-103  
 Cross Section -100.0 To 9999. %



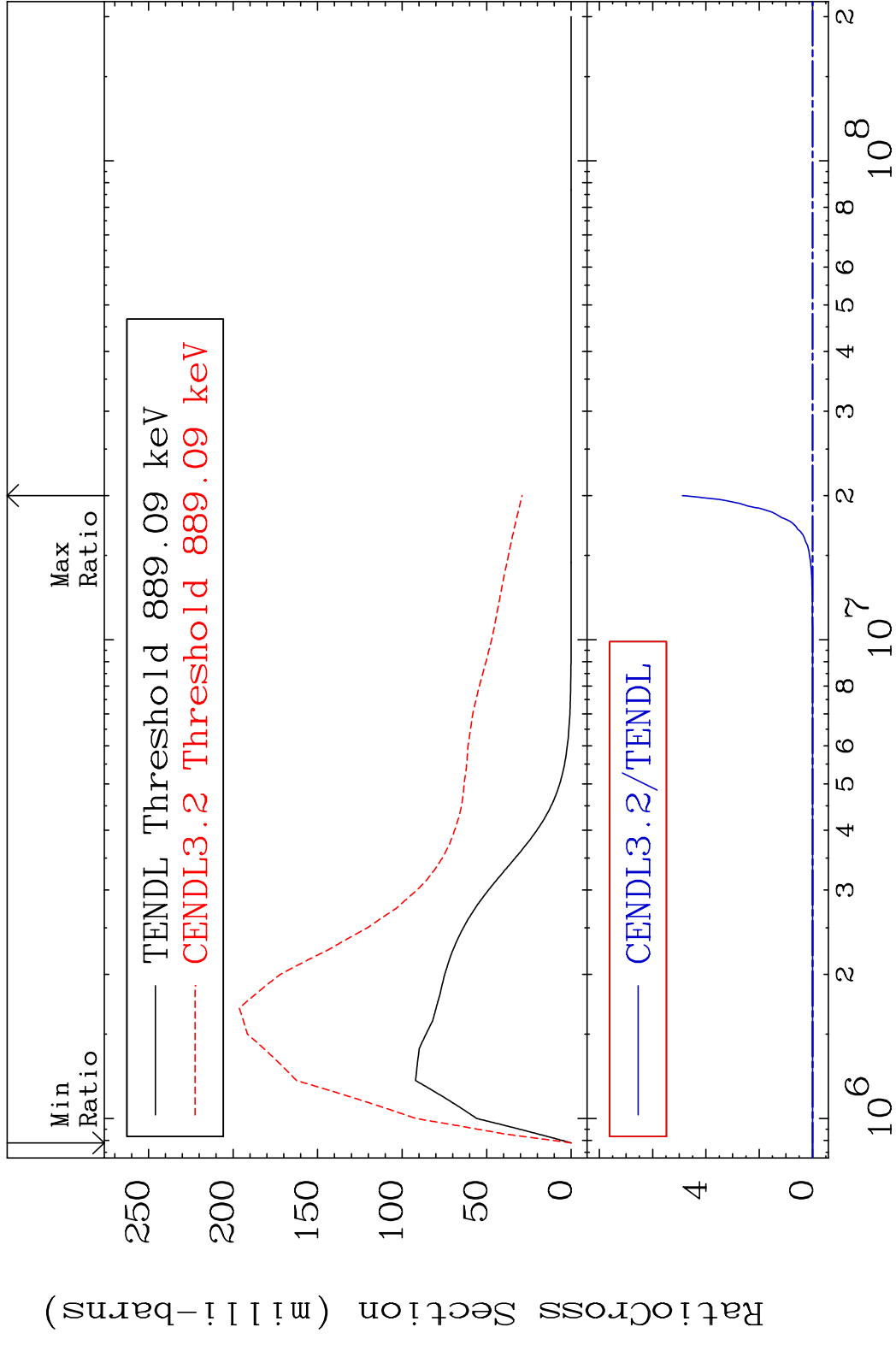
19 Incident Energy (eV) 45-Rh-103

MAT 4525 MT= 63 (n, n') Level 45-Rh-103  
 Cross Section -100.0 To 9999. %



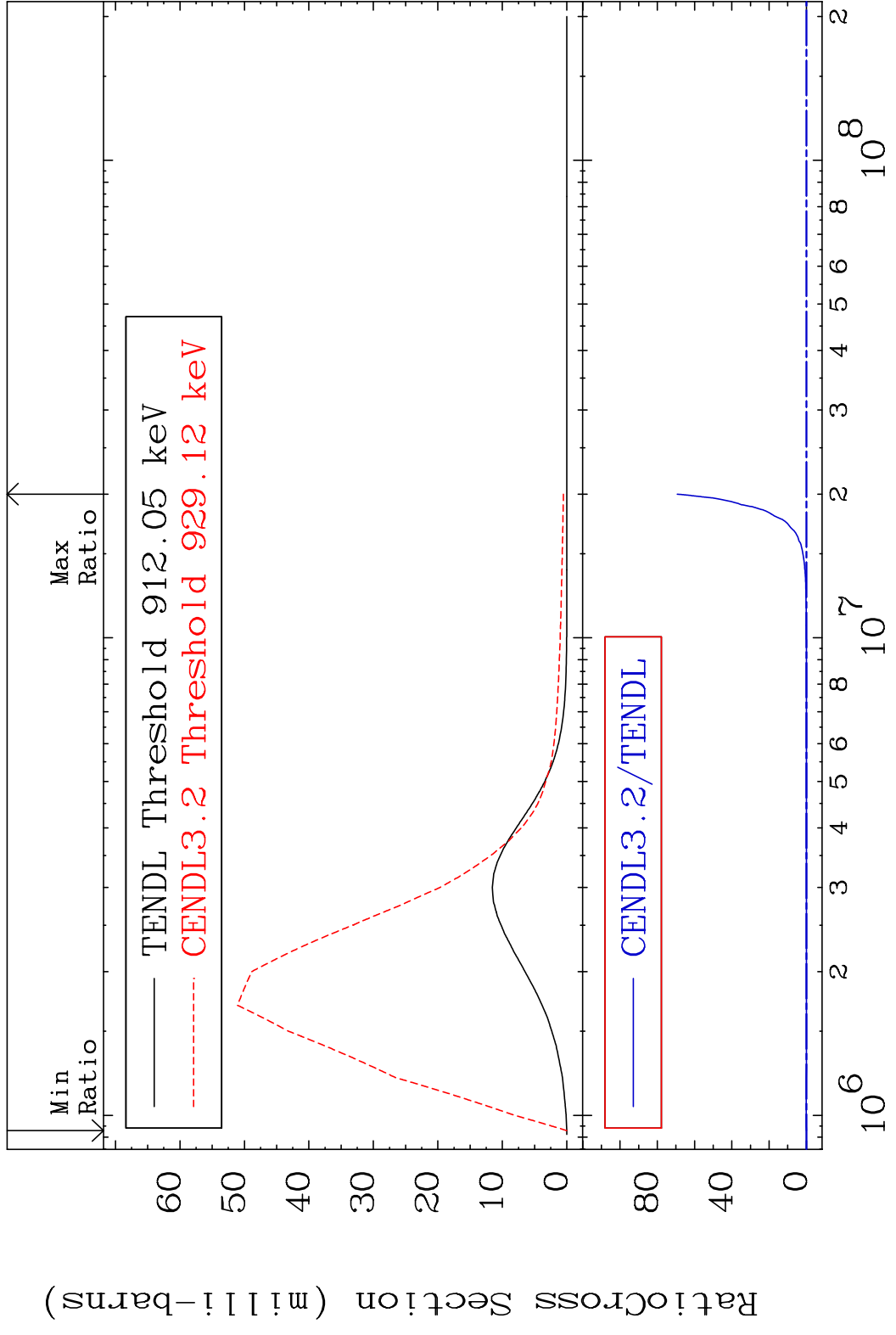
20 Incident Energy (eV) 45-Rh-103

MAT 4525 MT= 64 (n, n') Level 45-Rh-103  
 Cross Section -100.0 To 9999. %

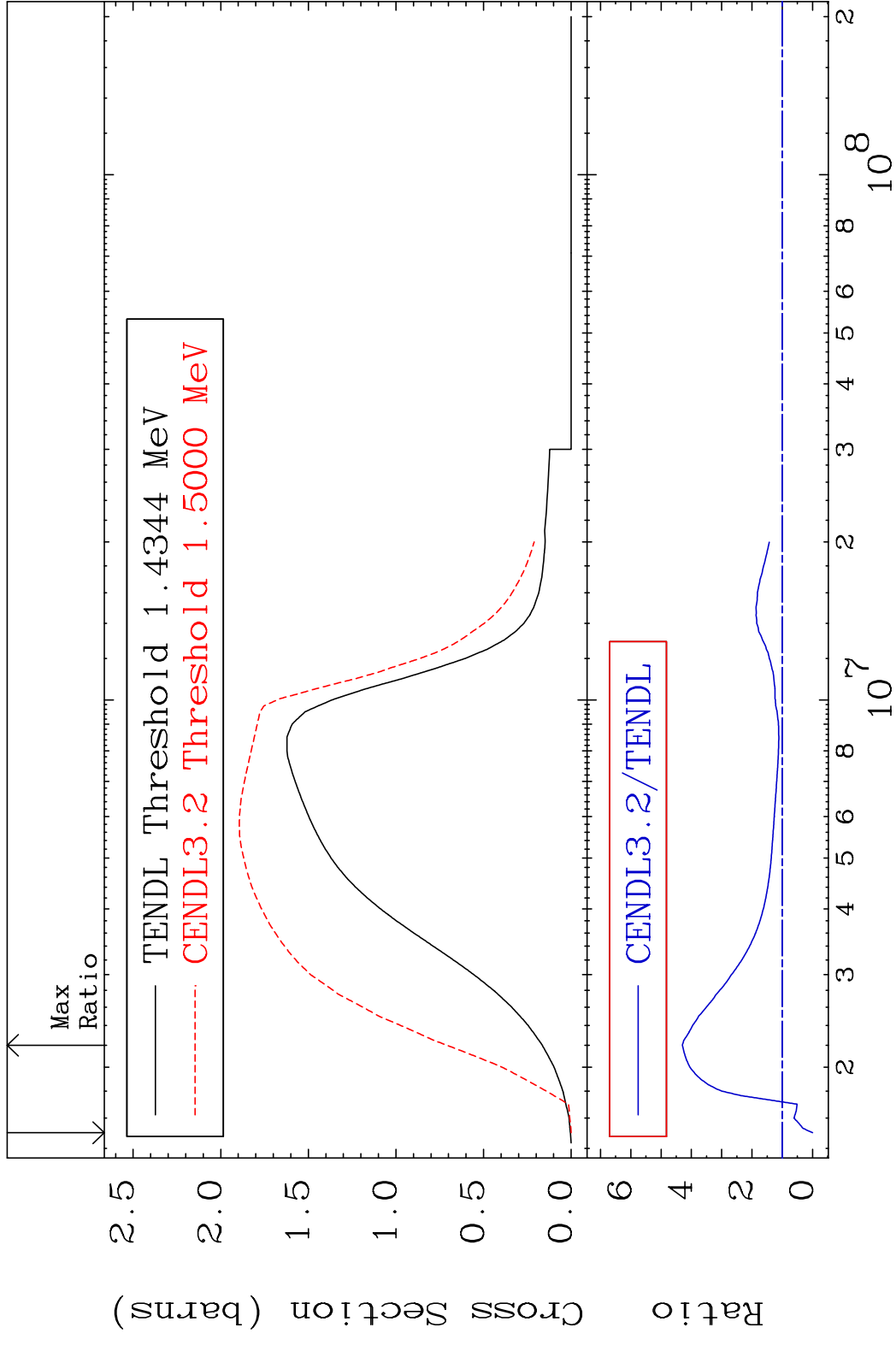


21 Incident Energy (eV) 45-Rh-103

MAT 4525 MT= 65 (n, n') Level 45-Rh-103  
 Cross Section -100.0 To 9999. %



MAT 4525 (n, n') Continuum 45-Rh-103  
 Cross Section -100.0 To 329.8 %



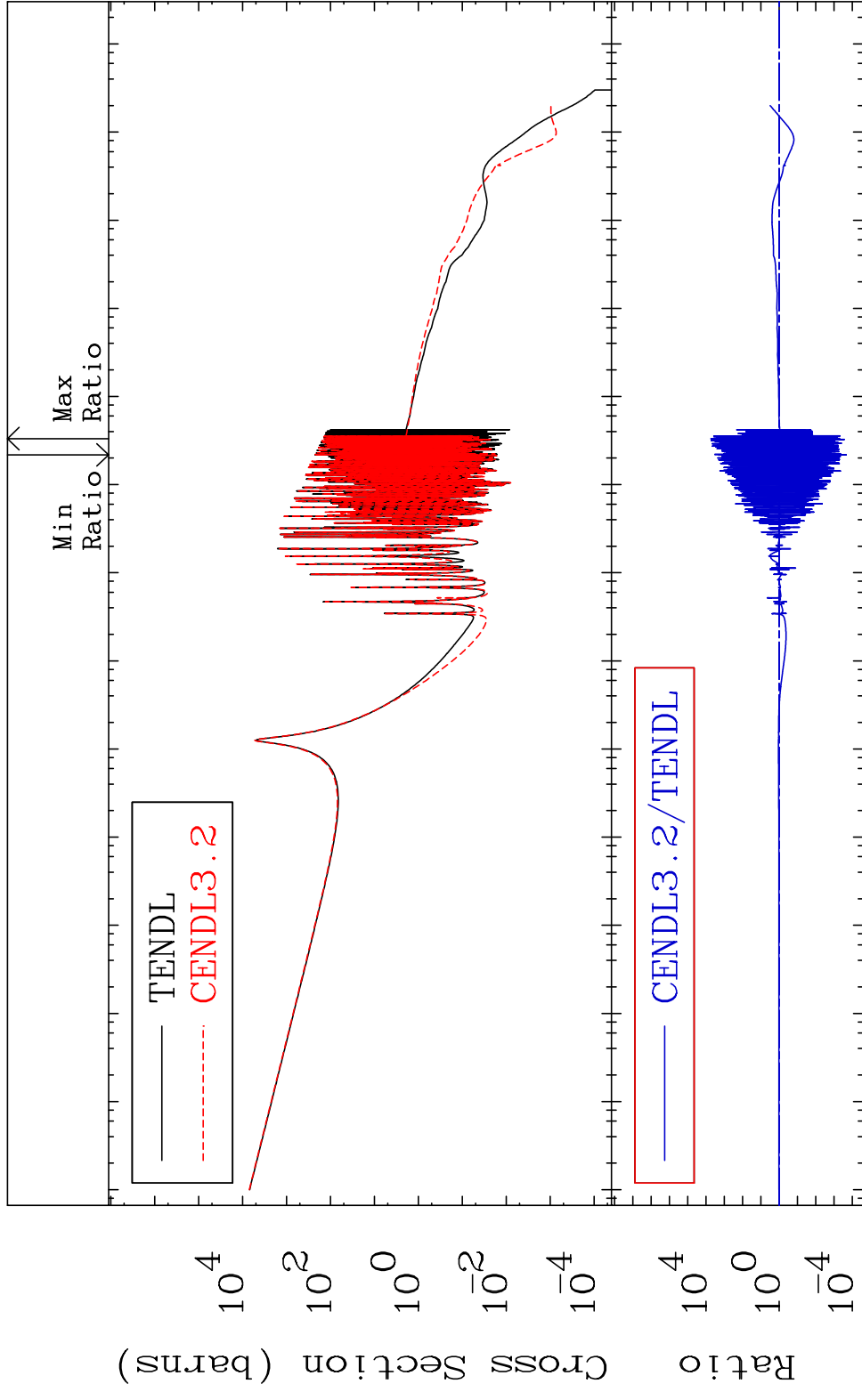


MAT 4525

45-Rh-103

(n,  $\gamma$ )

Cross Section -99.98 To 9999. %

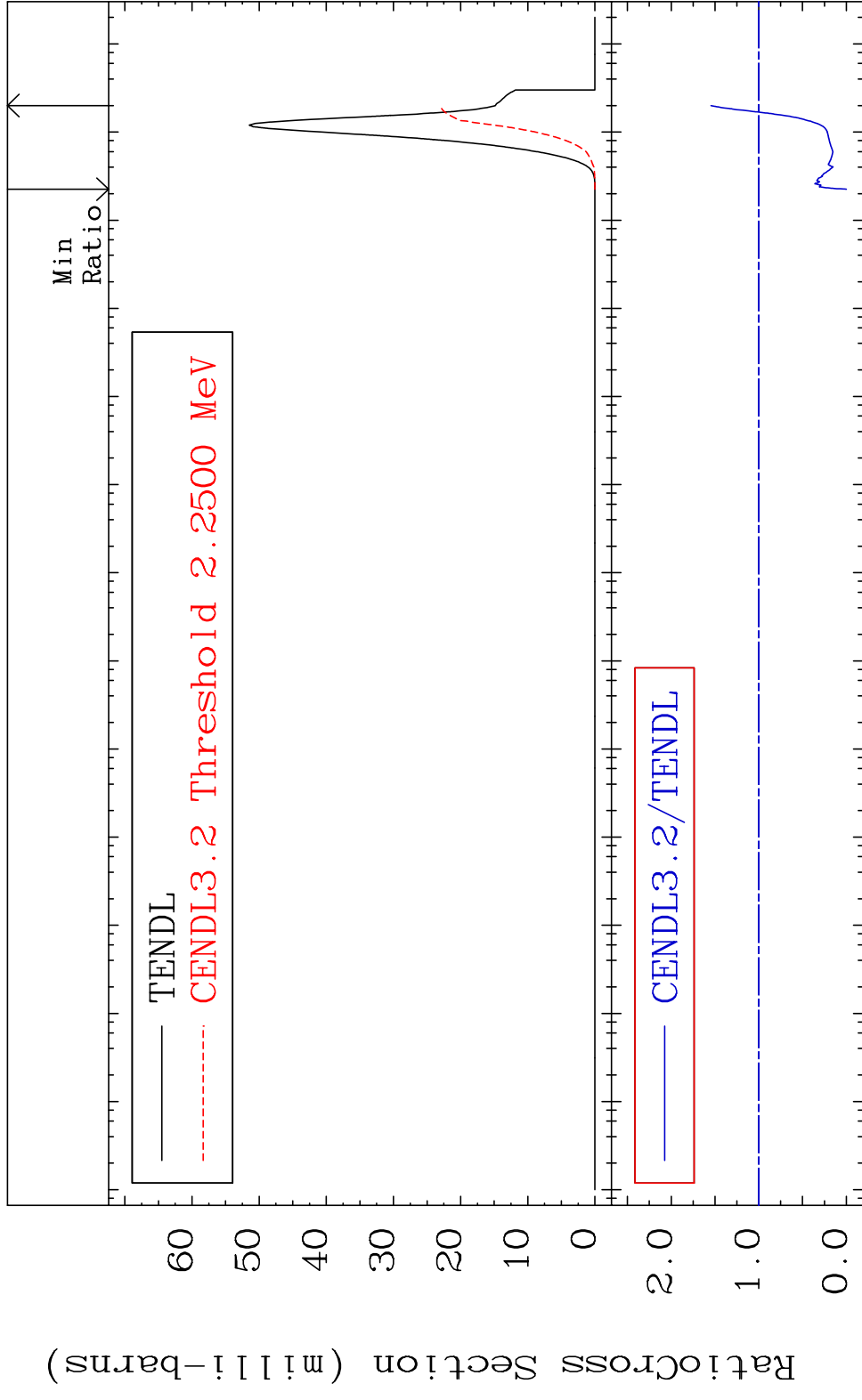


24

Incident Energy (eV)

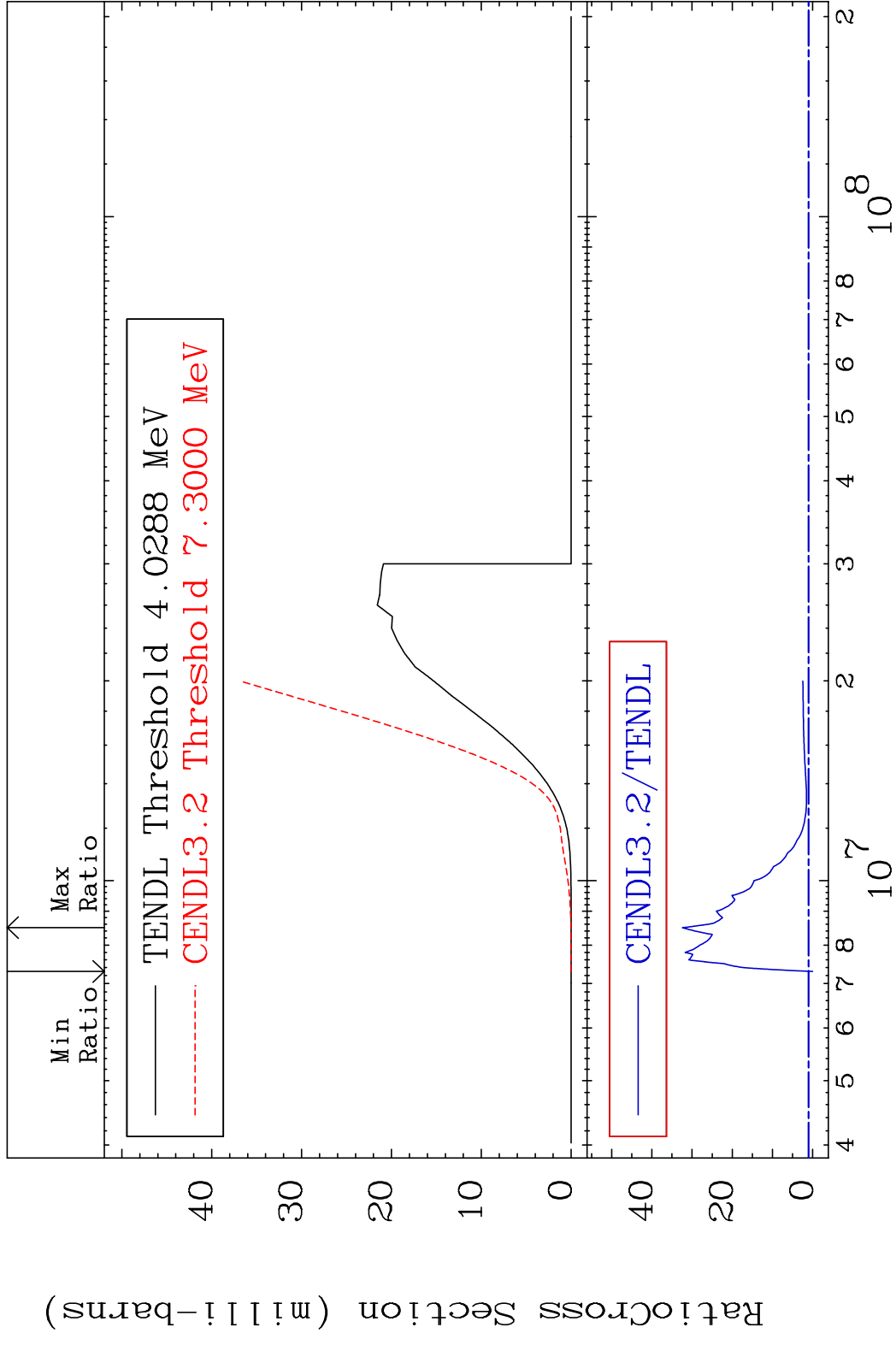
45-Rh-103

MAT 4525 (n,p) 45-Rh-103  
 Cross Section -100.0 To 54.89 %



Incident Energy (eV) 45-Rh-103

MAT 4525 (n,d) 45-Rh-103  
 Cross Section -100.0 To 3142. %



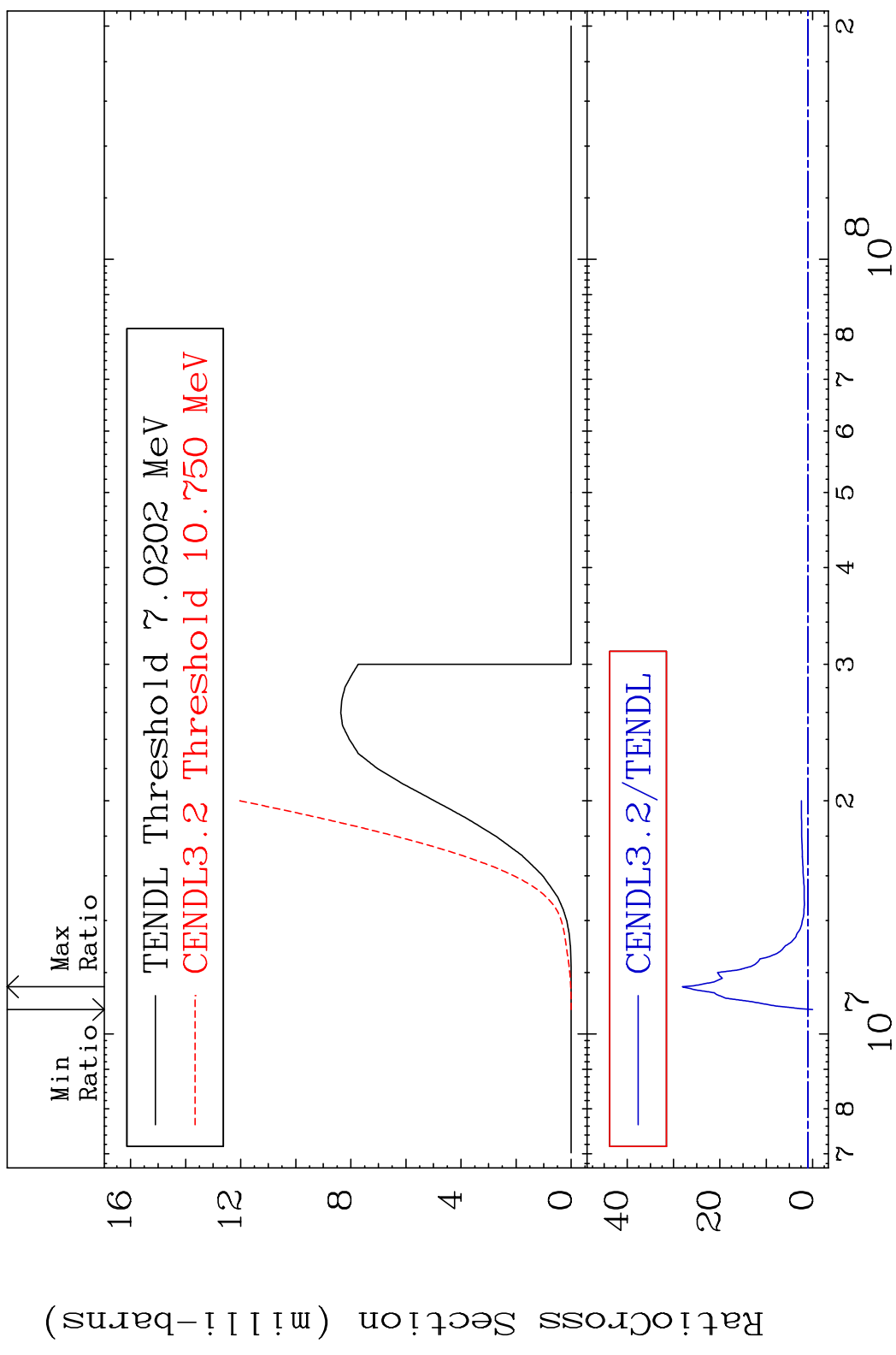
26 Incident Energy (eV) 45-Rh-103

MAT 4525

(n, t)

45-Rh-103

Cross Section -100.0 To 2710. %

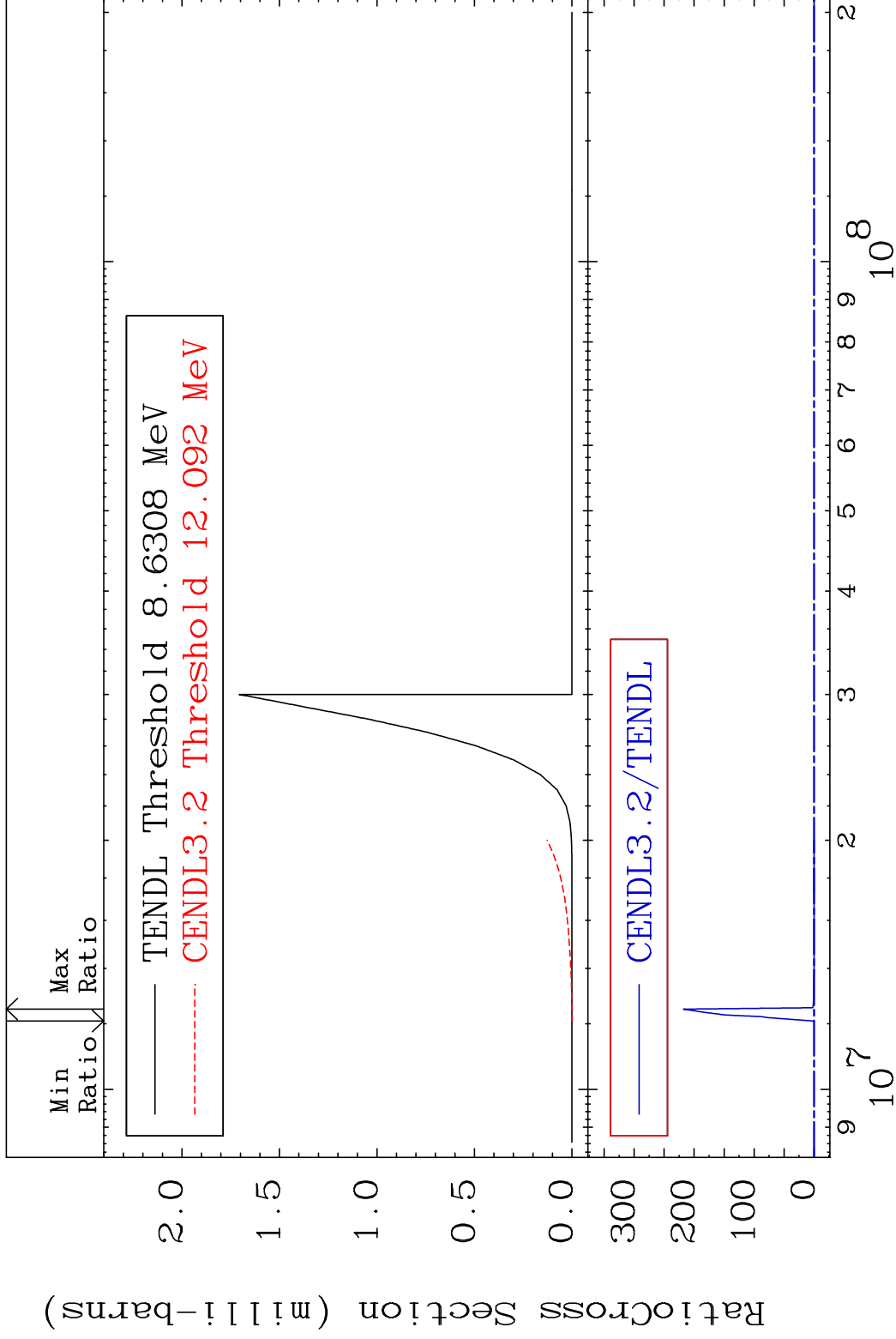


MAT 4525

(n, He-3)

45-Rh-103

Cross Section -100.0 To 9999. %



28

Incident Energy (eV)

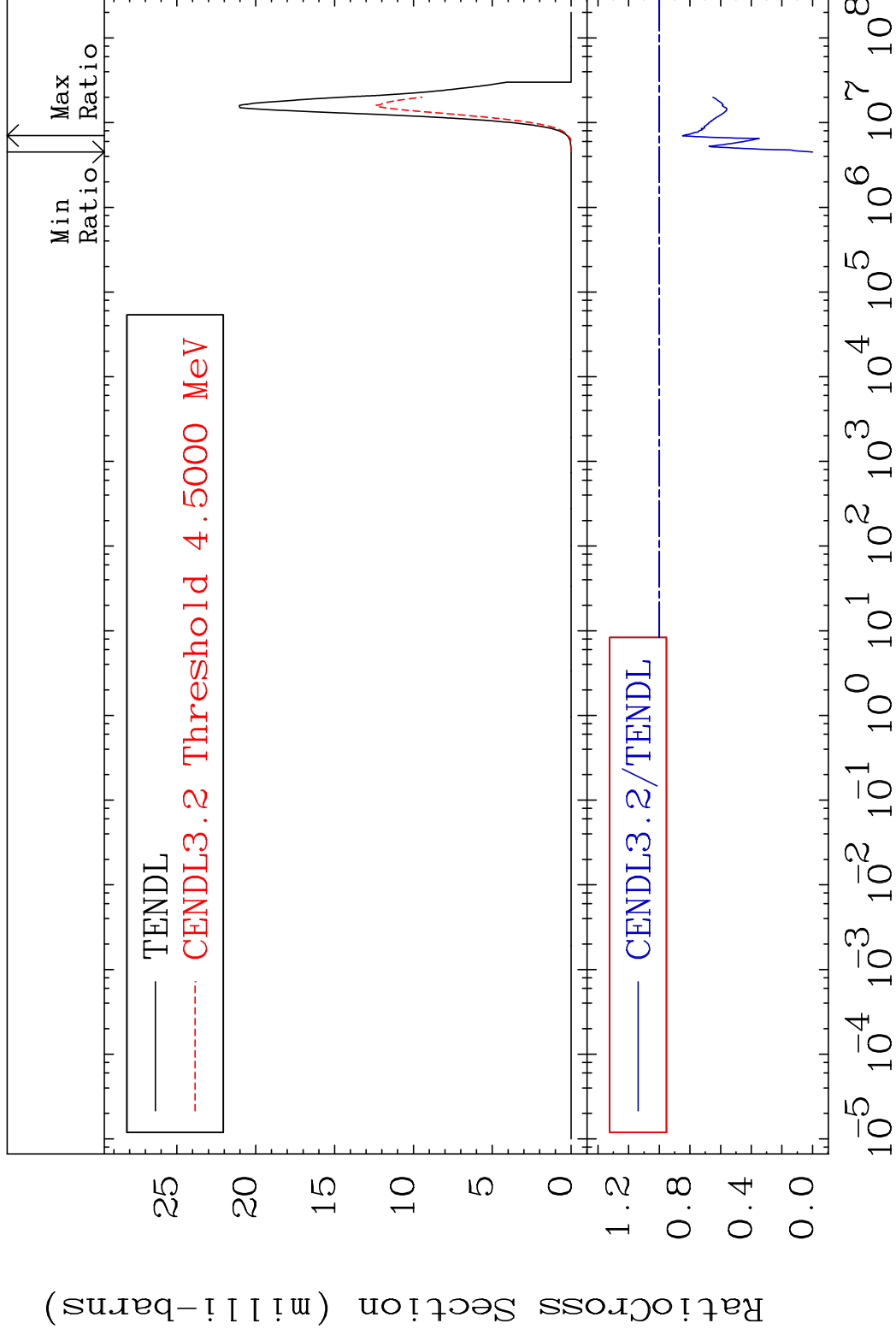
45-Rh-103

MAT 4525

(n,  $\alpha$ )

45-Rh-103

Cross Section -100.0 To -15.03%



29

Incident Energy (eV)

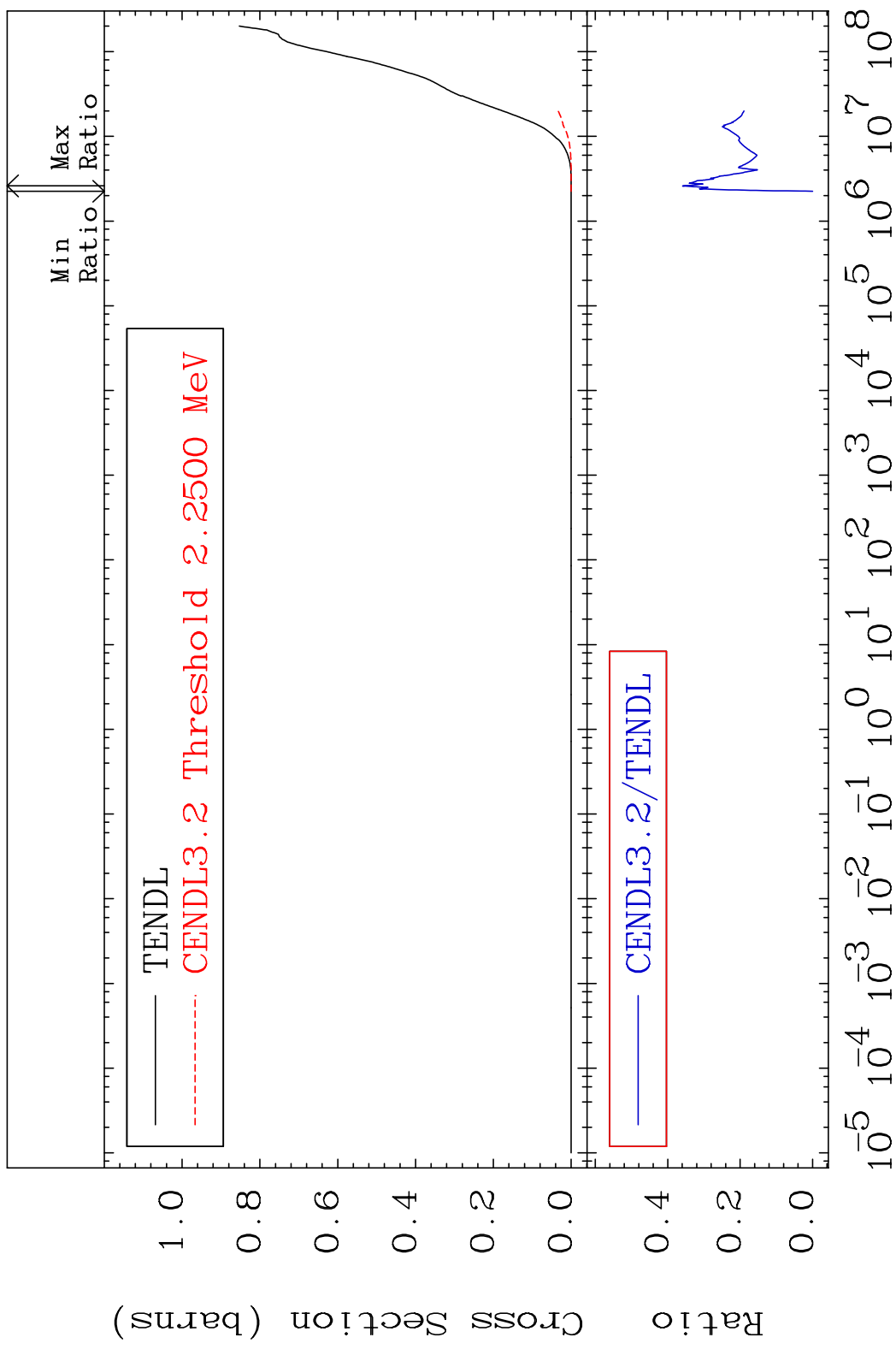
45-Rh-103

MAT 4525

Hydrogen Production

45-Rh-103

Cross Section -100.0 To -64.03%

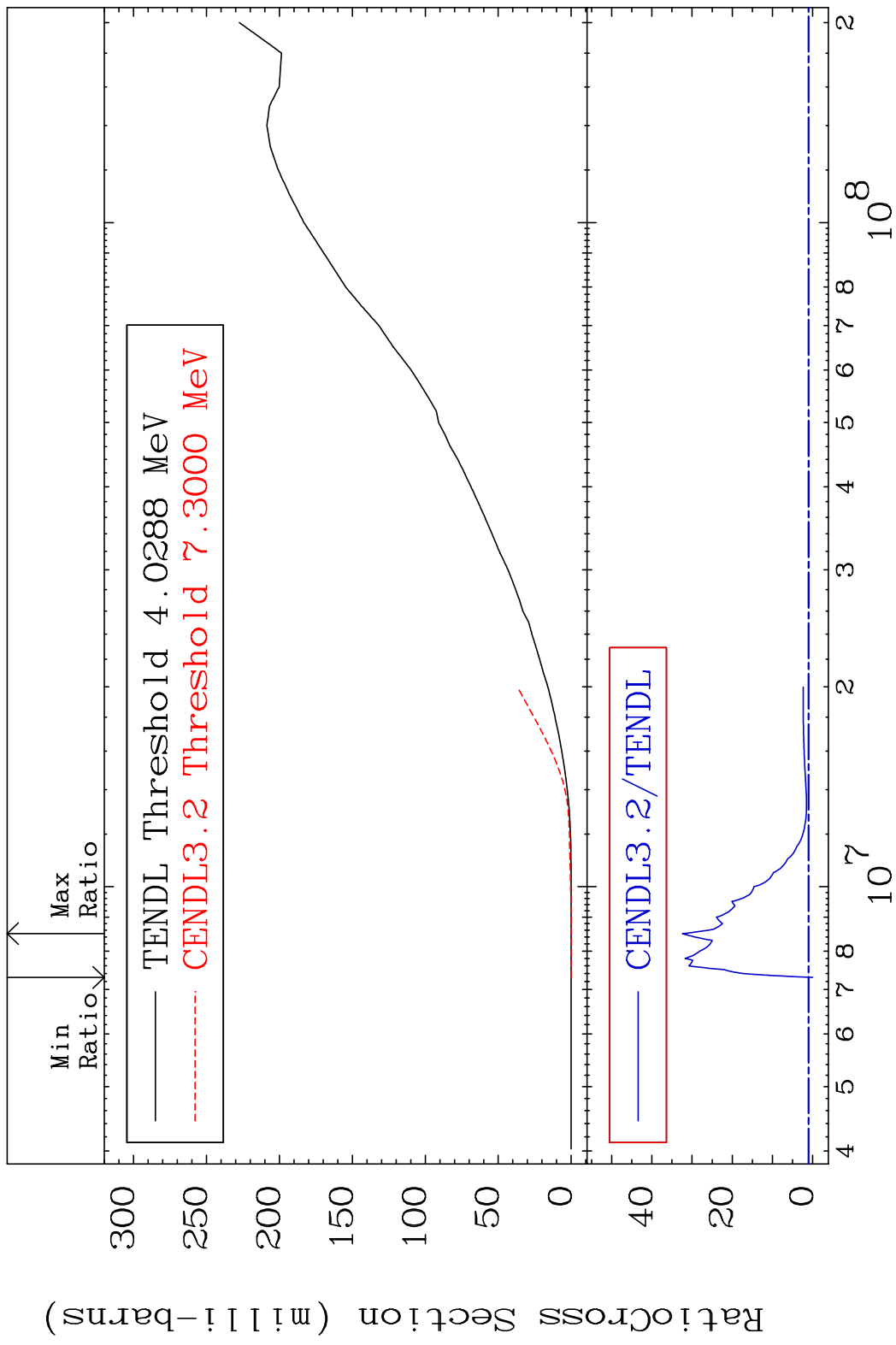


30

Incident Energy (eV)

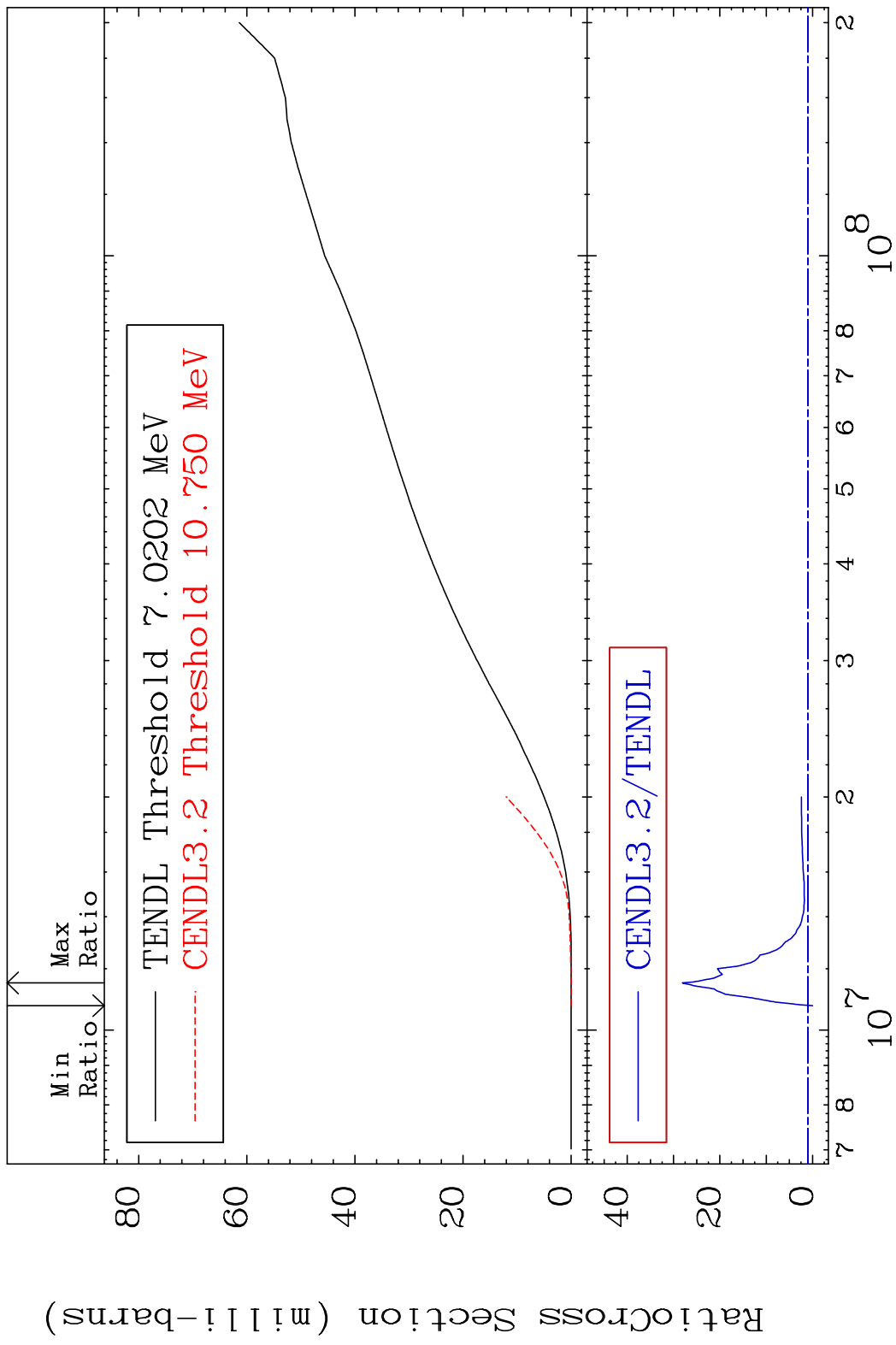
45-Rh-103

MAT 4525 Deuterium Production 45-Rh-103  
 Cross Section -100.0 To 3142. %





MAT 4525 Tritium Production 45-Rh-103  
 Cross Section -100.0 To 2710. %



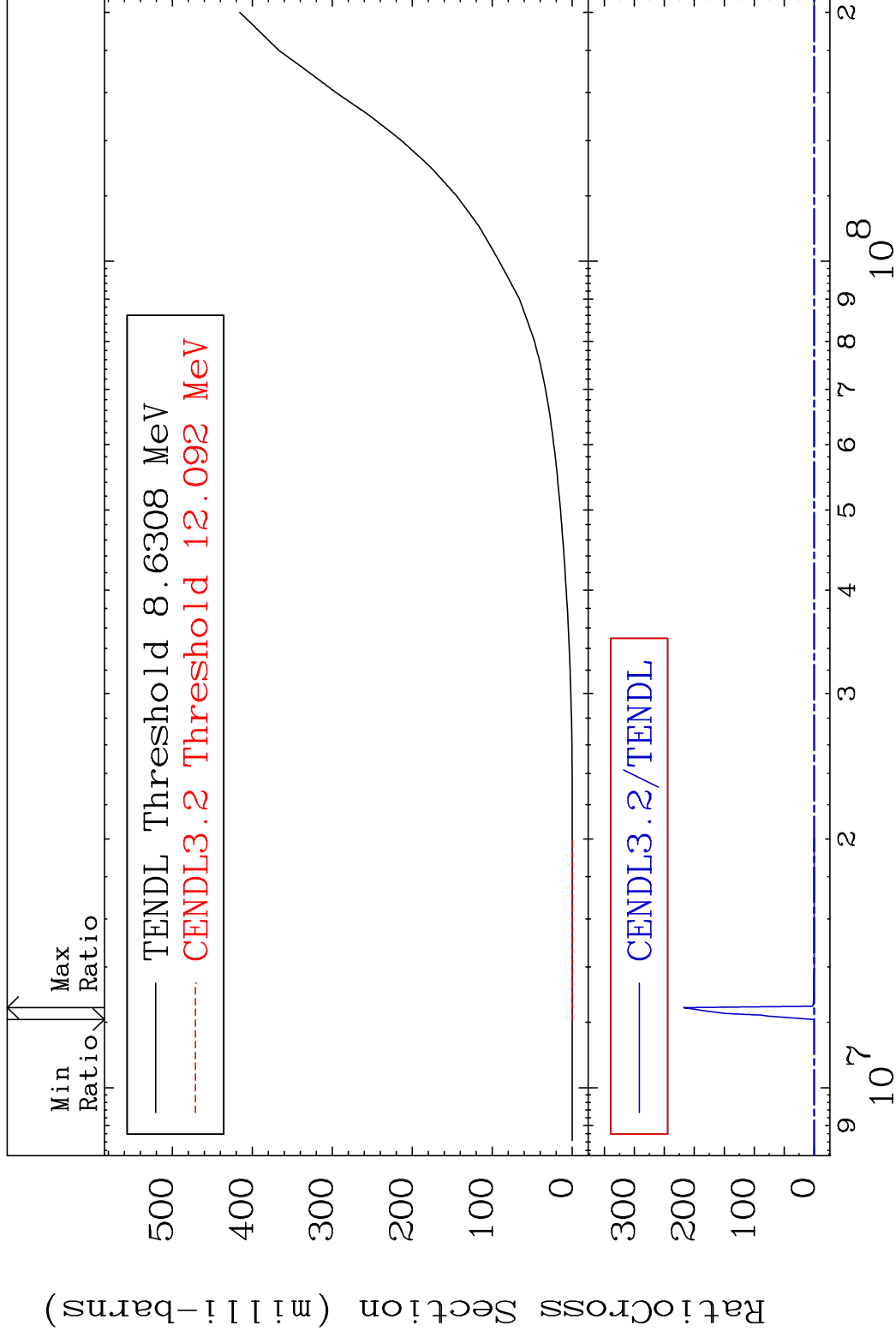
32 45-Rh-103

MAT 4525

He-3 Production

45-Rh-103

Cross Section -100.0 To 9999. %



33

Incident Energy (eV)

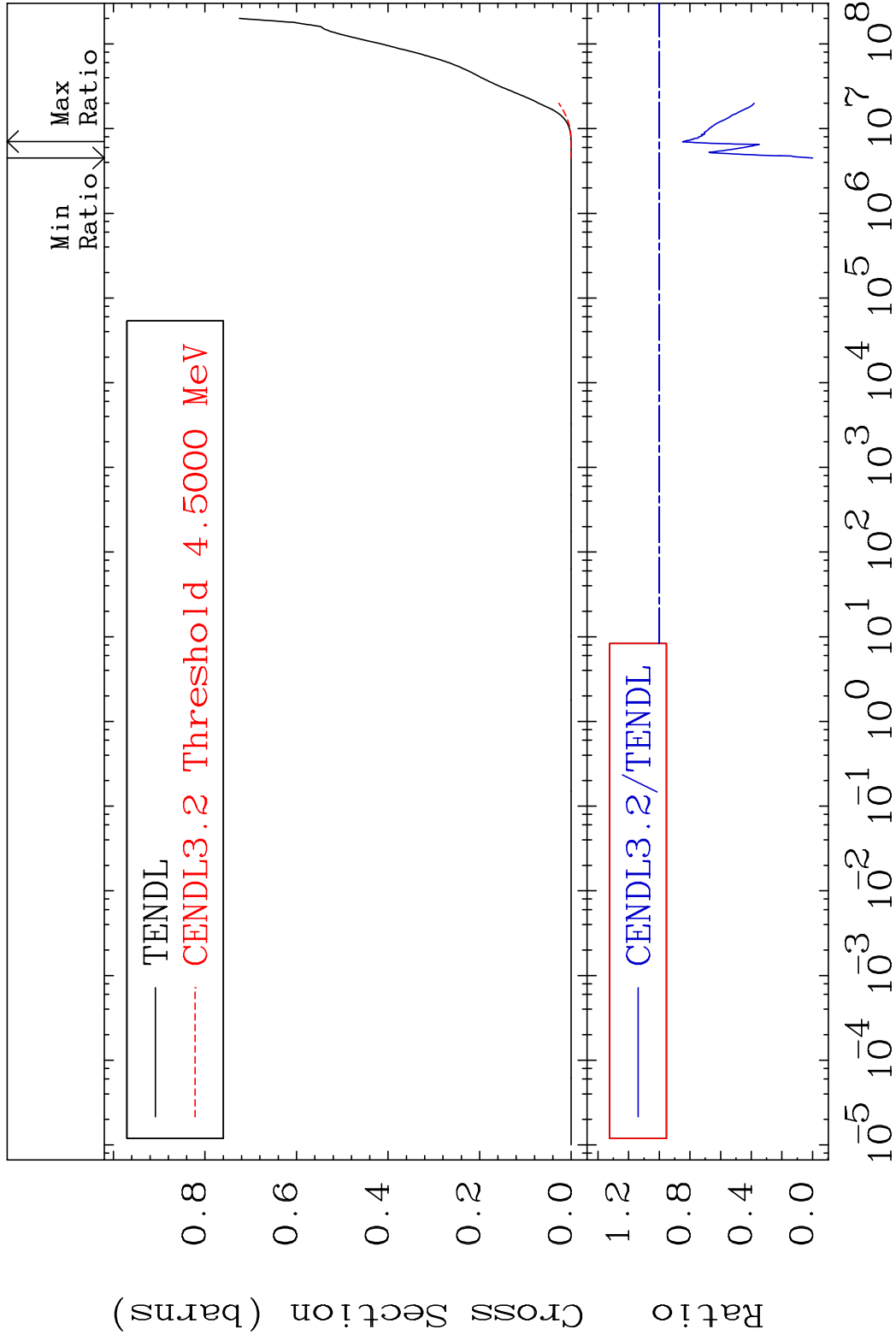
45-Rh-103

MAT 4525

He-4 Production

45-Rh-103

Cross Section -100.0 To -15.03%

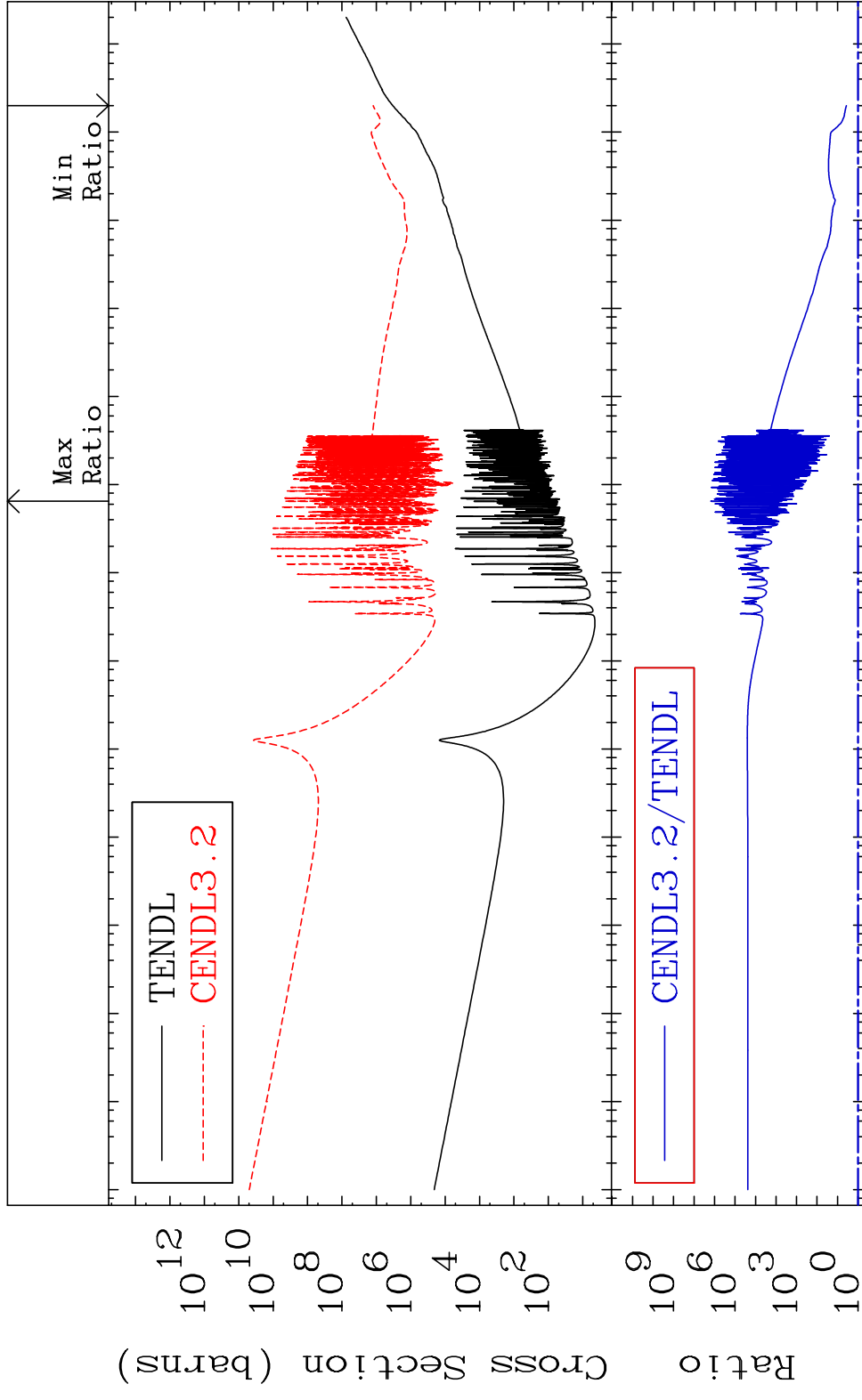


34

Incident Energy (eV)

45-Rh-103

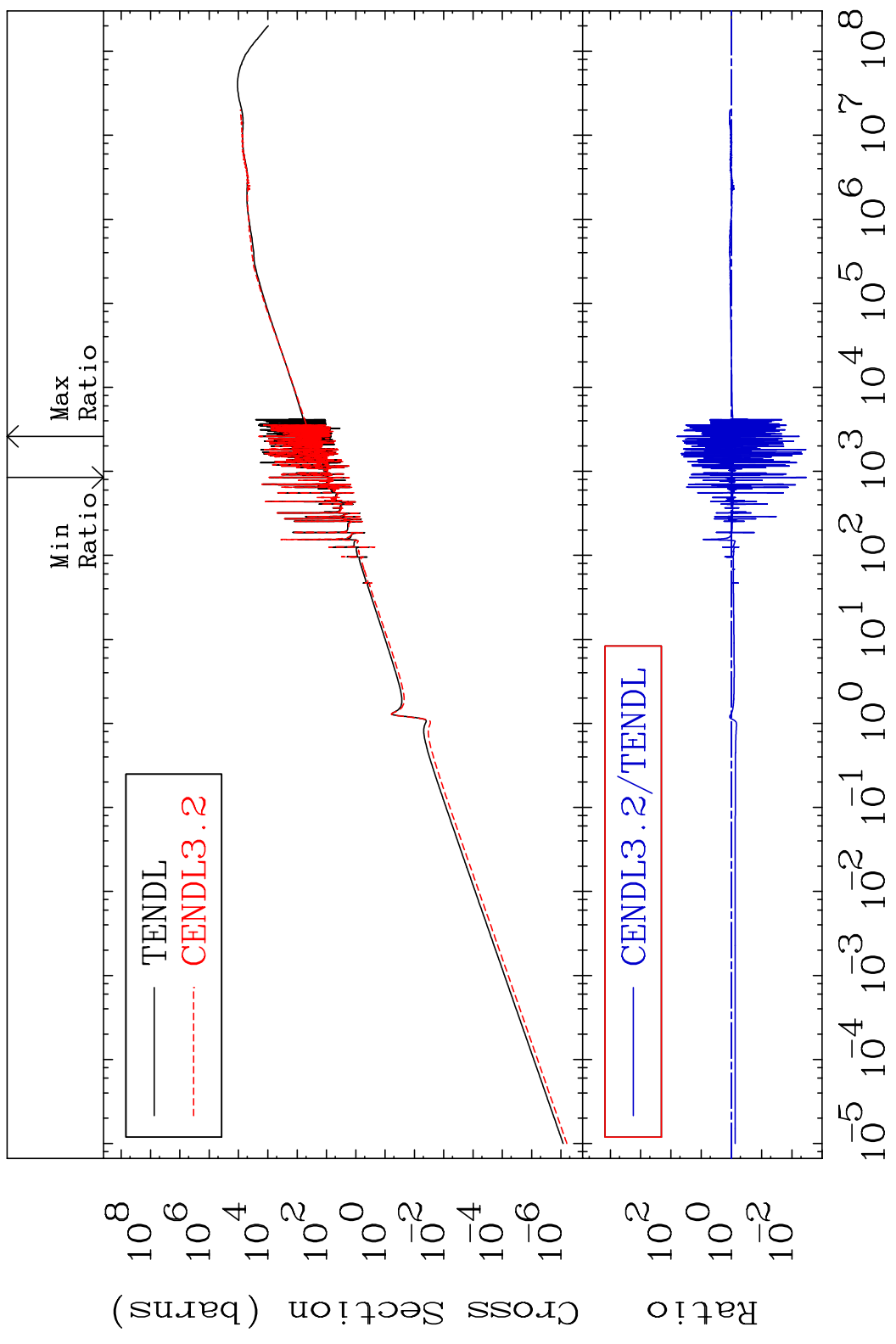
MAT 4525 Kerma total (eV-barns) 45-Rh-103  
 Cross Section 272.7 To 9999. %



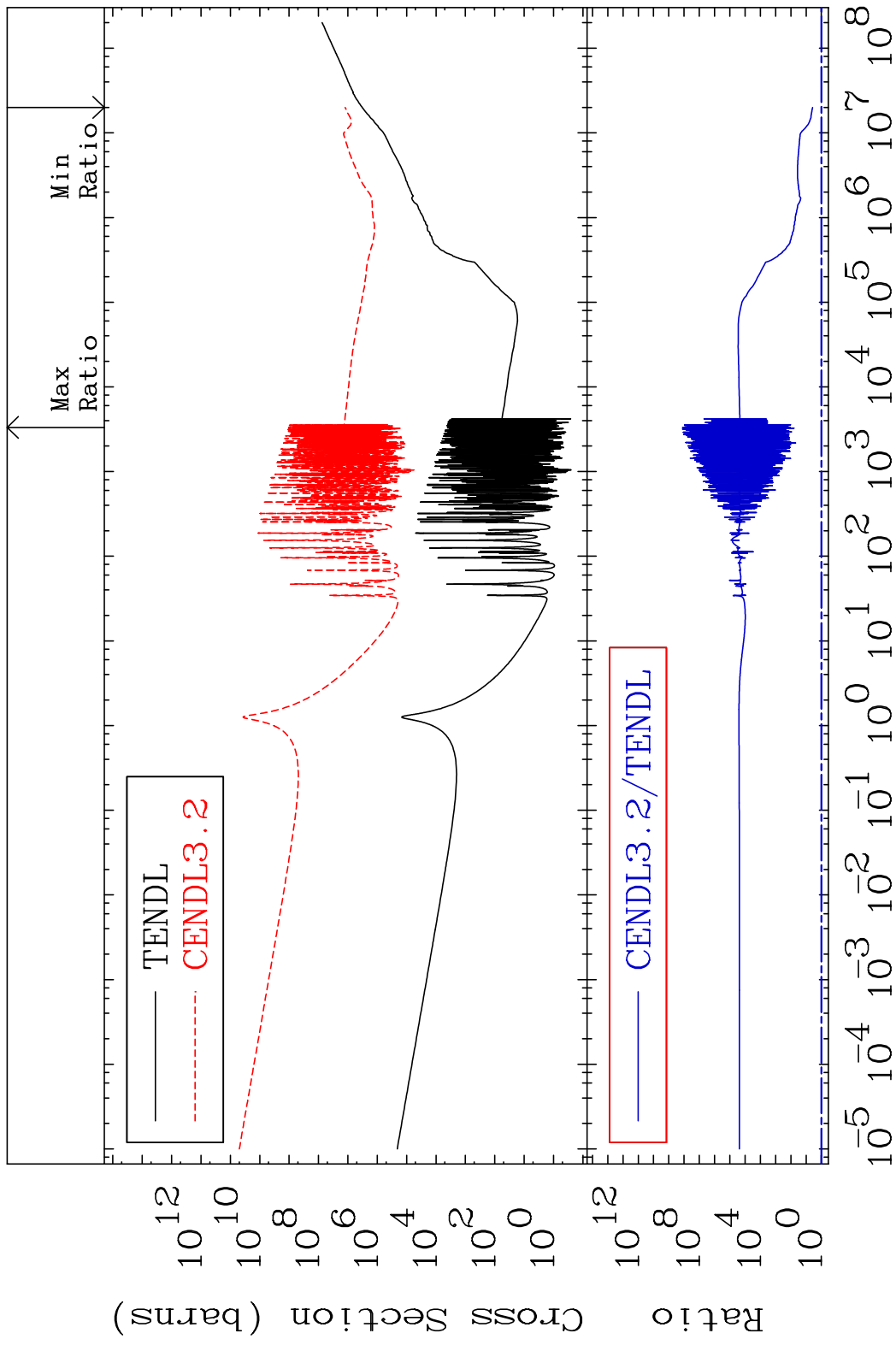
35 Incident Energy (eV) 45-Rh-103

MAT 4525

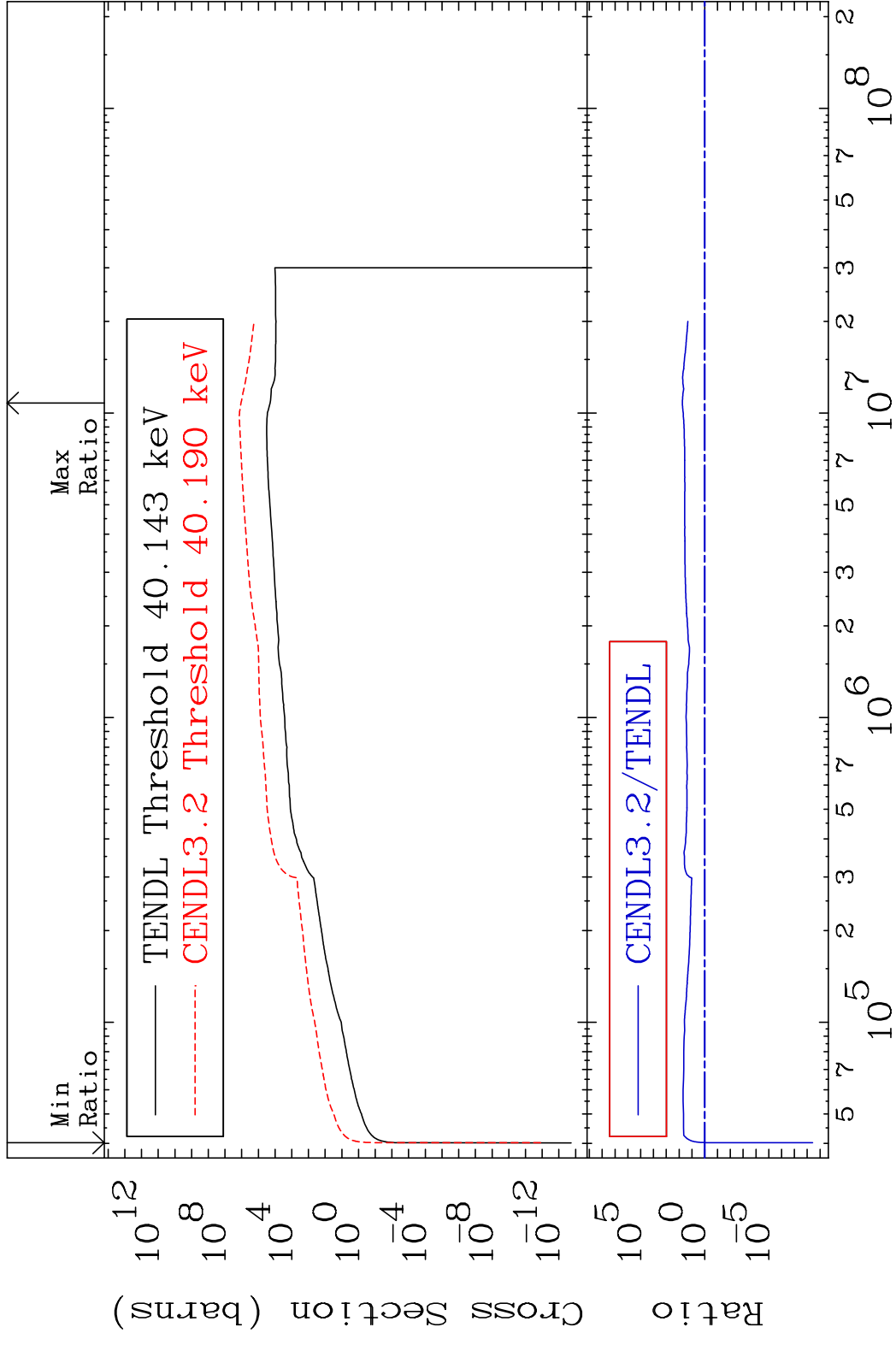
Kerma elastic Cross Section -99.677 To 6085. %  
45-Rh-103



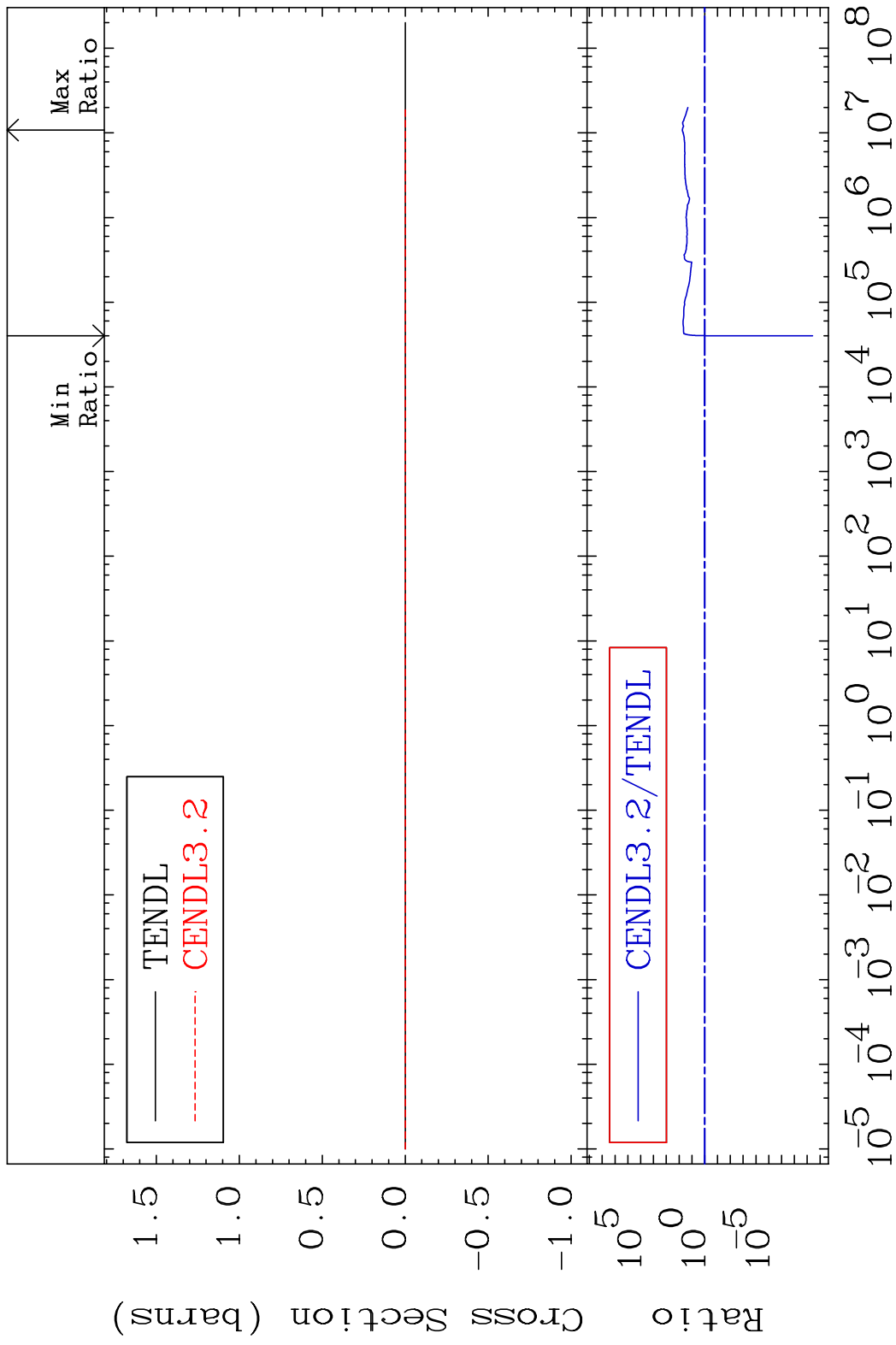
MAT 4525 Kerma non-elastic (all but mt2) 45-Rh-103  
 Cross Section 279.0 To 9999. %



MAT 4525 Kerma inelastic (mt51-91) 45-Rh-103  
 Cross Section -100.0 To 5457. %

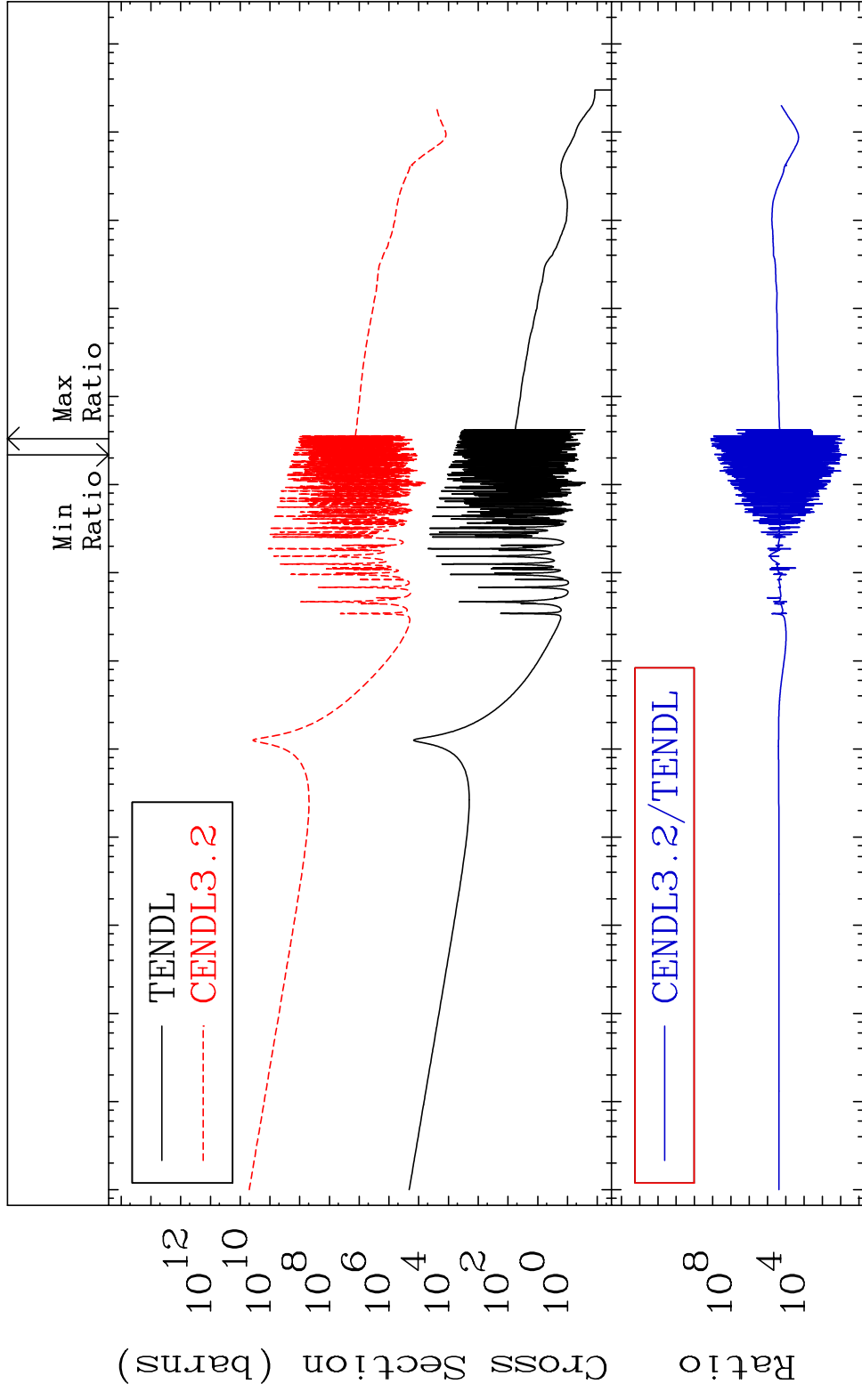


MAT 4525 Kerma fission (mt18 or mt19-20-21-38) 45-Rh-103  
 Cross Section -100.0 To 5457. %



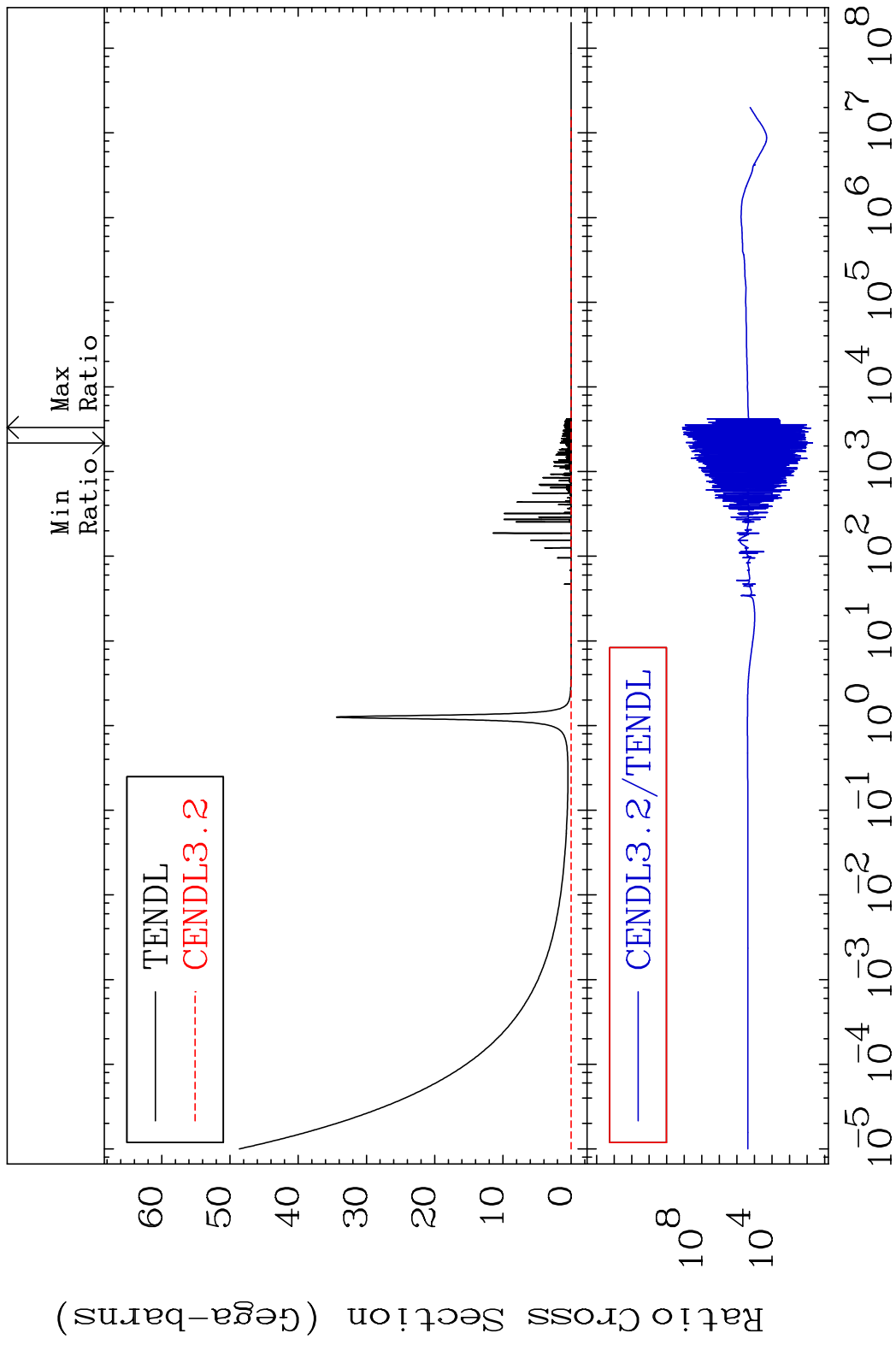


MAT 4525 Kerma capture (mt102) 45-Rh-103  
 Cross Section 4803. To 9999. %

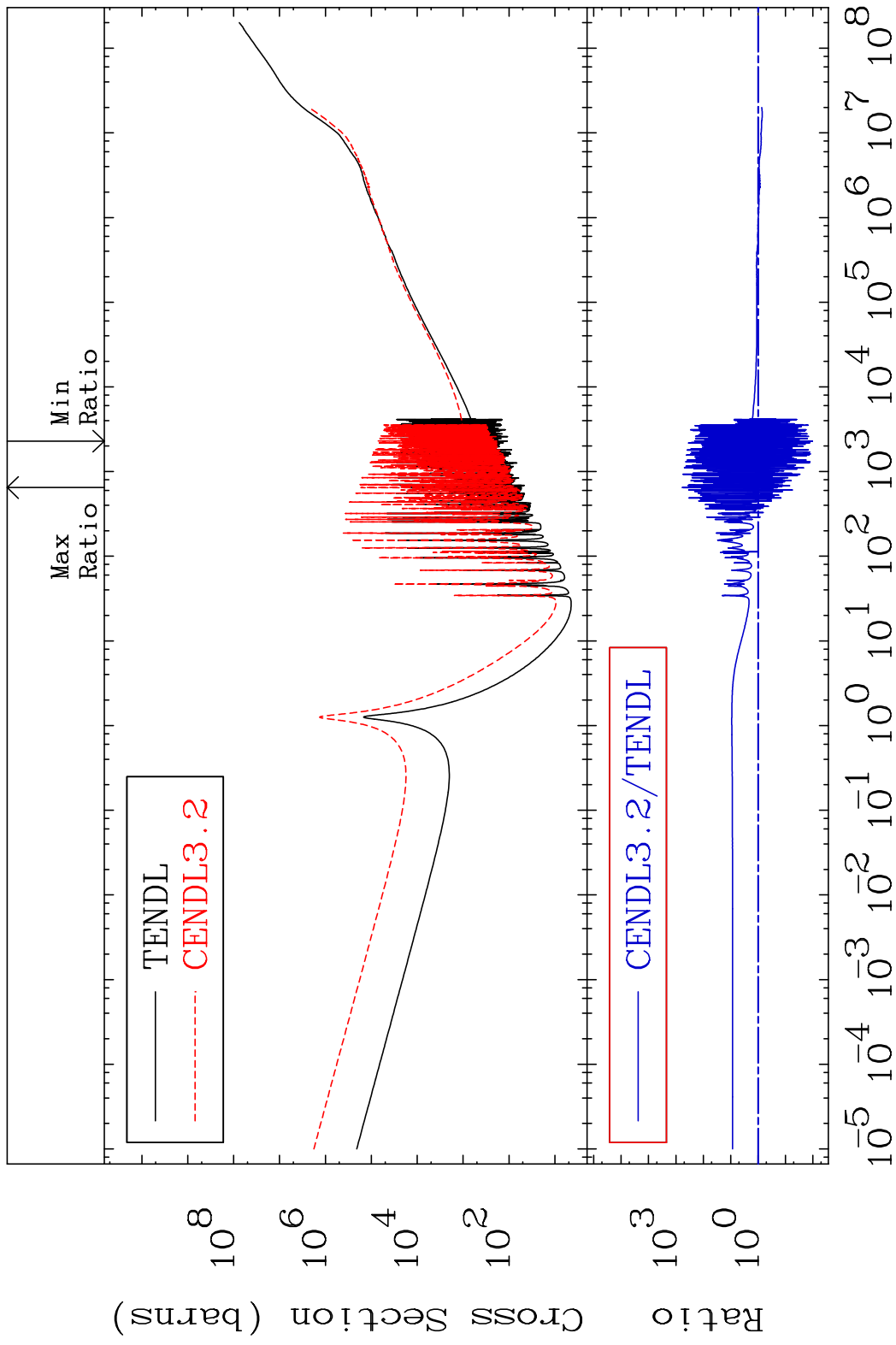


40 Incident Energy (eV) 45-Rh-103

MAT 4525 Total photon (eV-barns) 45-Rh-103  
Cross Section 4803. To 9999. %



MAT 4525 Total kinematic kerma (high limit) 45-Rh-103  
 Cross Section -98.97 To 9999. %

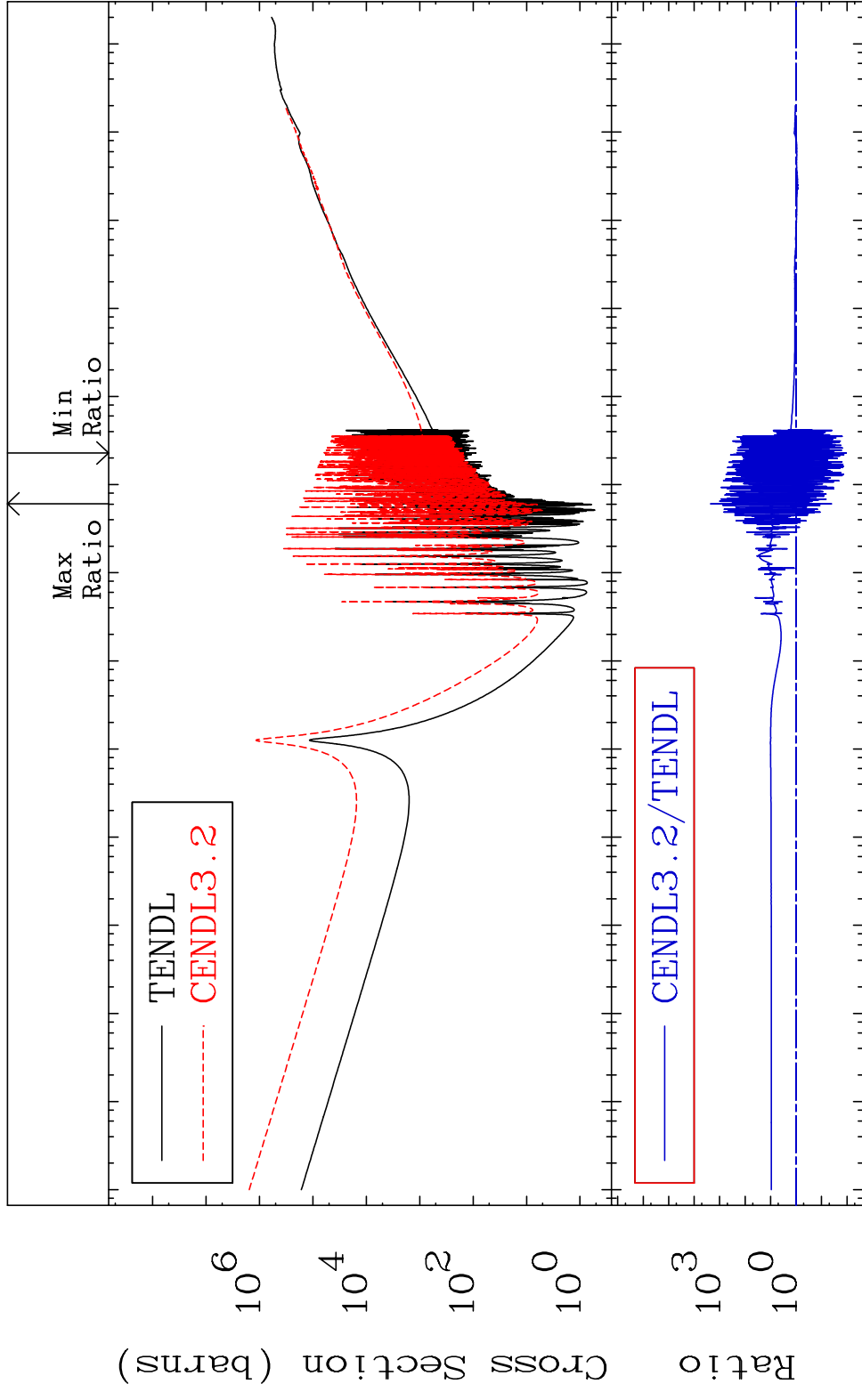


MAT 4525

Dpa total (eV-barns)

45-Rh-103

Cross Section -98.94 To 9999. %

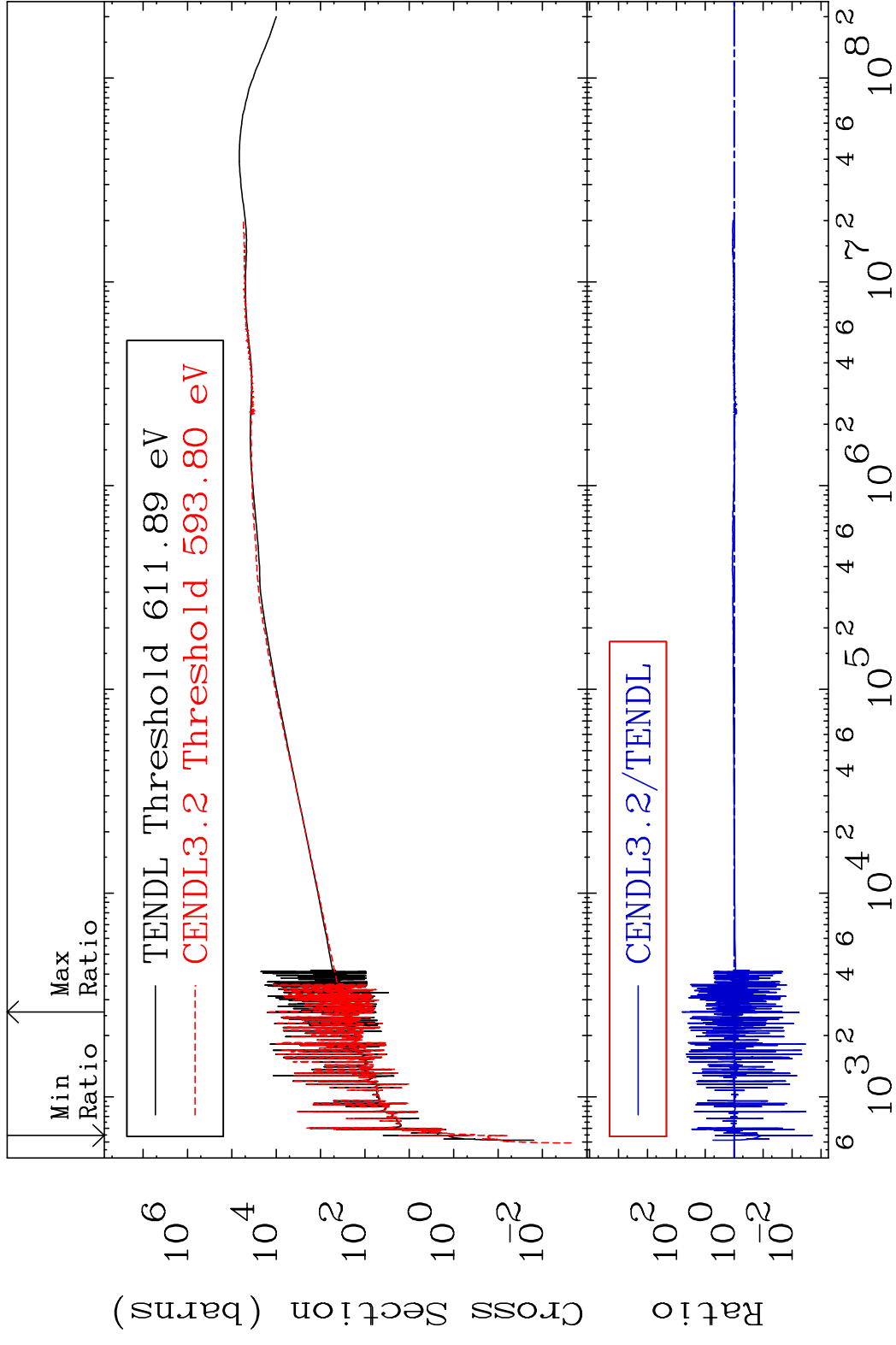


43

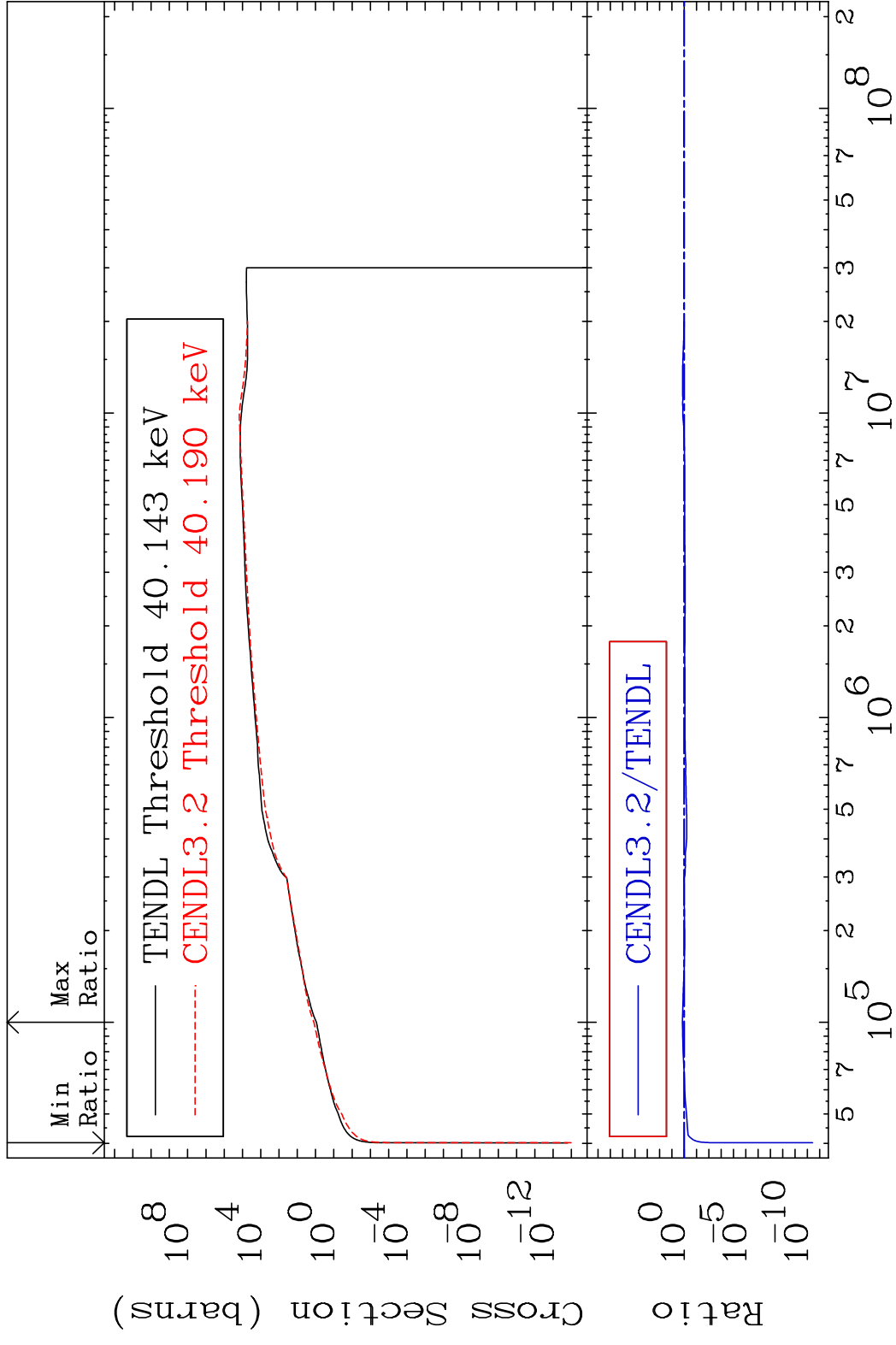
Incident Energy (eV)

45-Rh-103

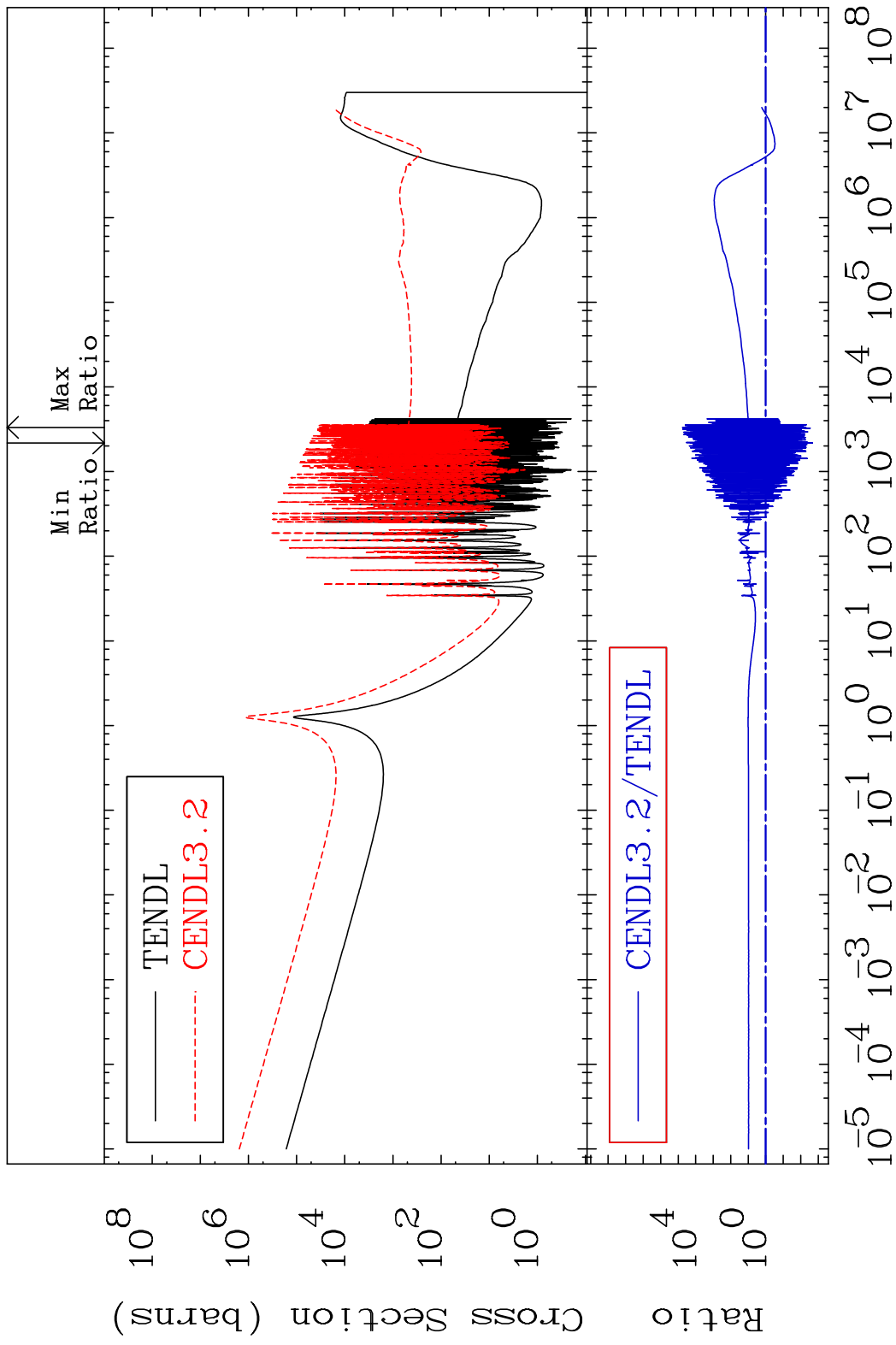
MAT 4525      Dpa elastic (mt2)      45-Rh-103  
 Cross Section      -99.80 To 6106. %



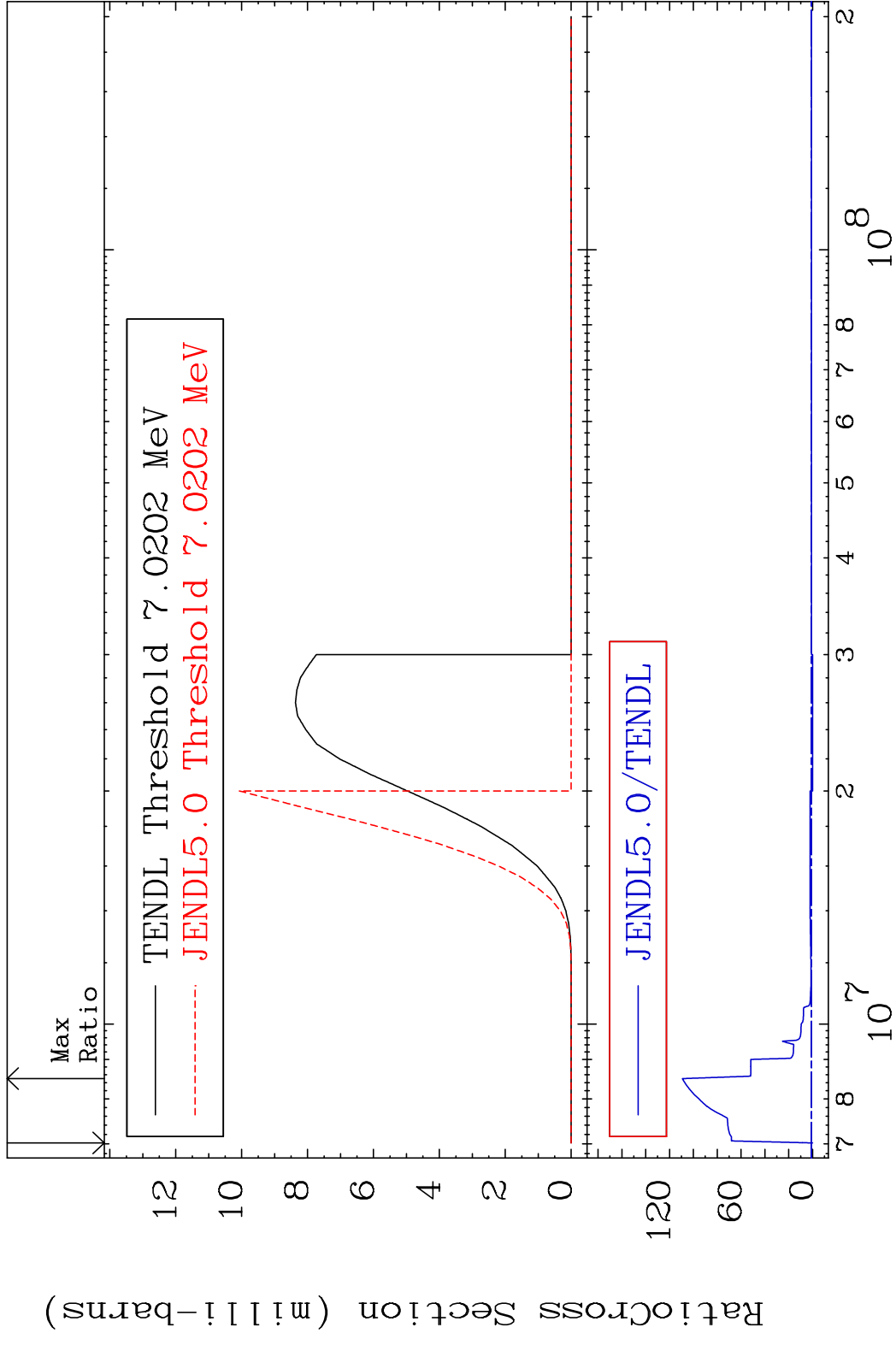
MAT 4525      Dpa inelastic (mt51-91)      45-Rh-103  
 Cross Section      -100.0 To 39.99 %



MAT 4525 Dpa disappearance (mt102 -120) 45-Rh-103  
 Cross Section -99.79 To 9999. %



MAT 4525 (n, t) 45-Rh-103  
 Cross Section -100.0 To 9999. %



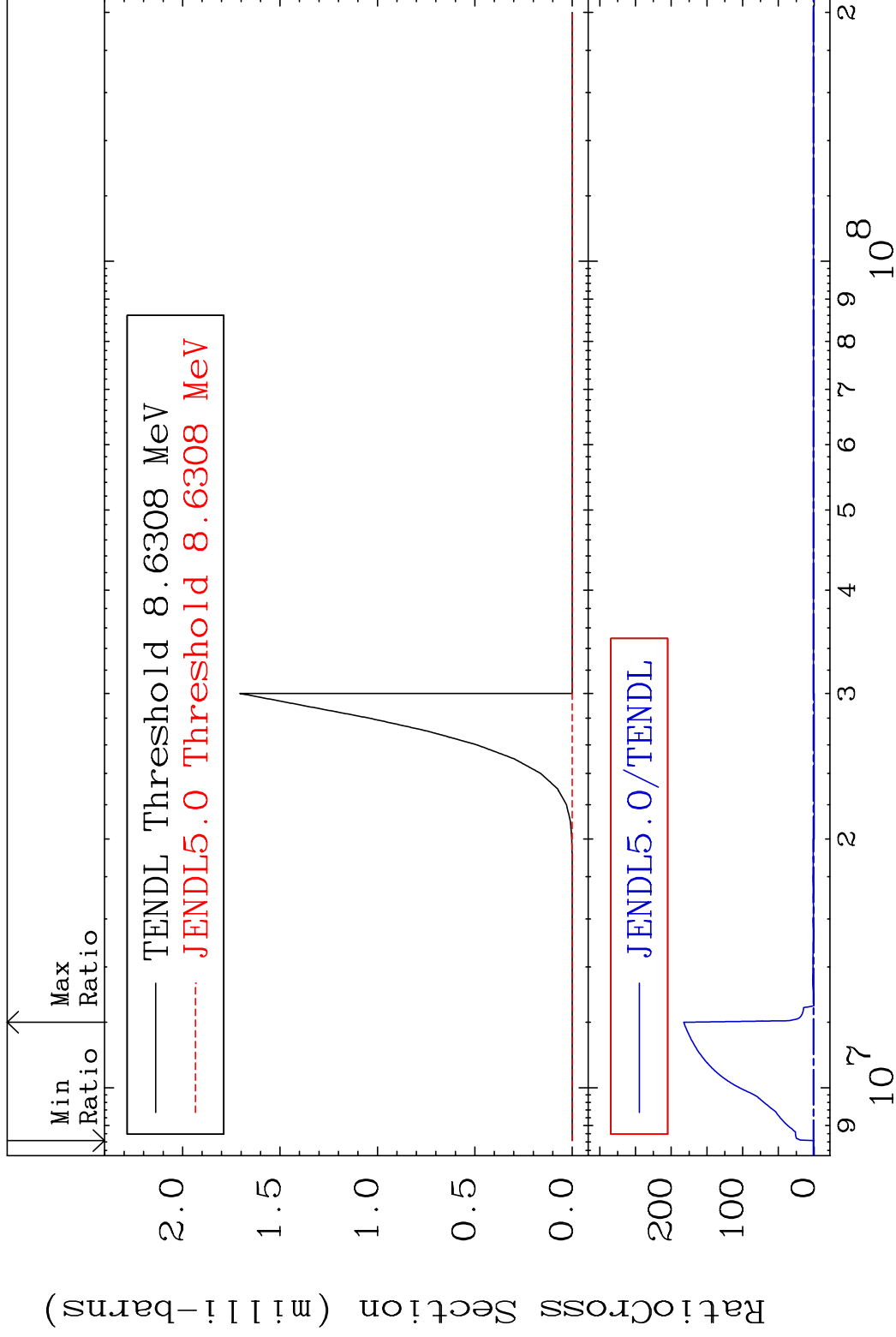


MAT 4525

(n, He-3)

45-Rh-103

Cross Section -100.0 To 9999. %



48

Incident Energy (eV)

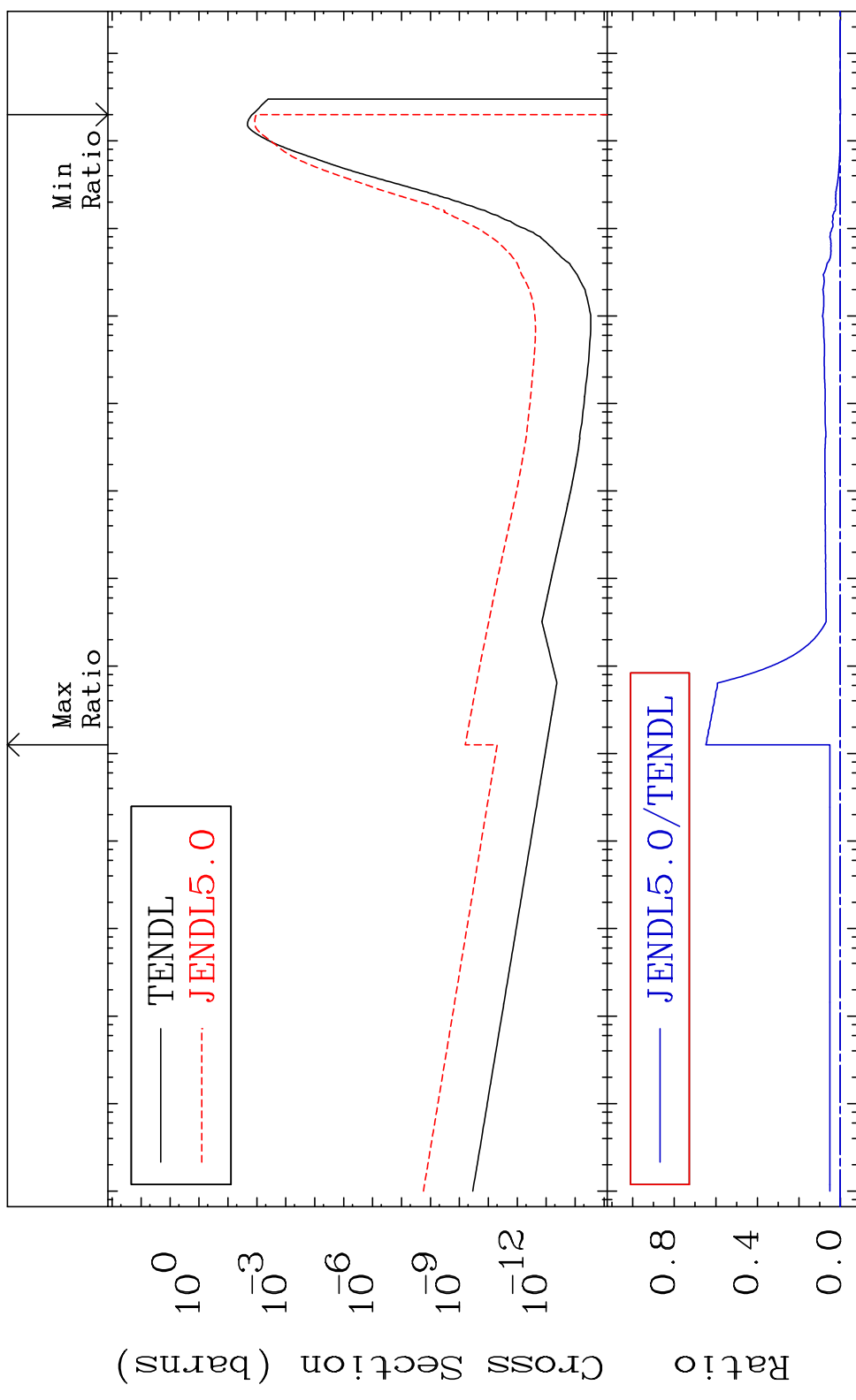
45-Rh-103

MAT 4525

(n,  $\alpha$ )

45-Rh-103

Cross Section -100.0 To 9999. %



49

Incident Energy (eV)

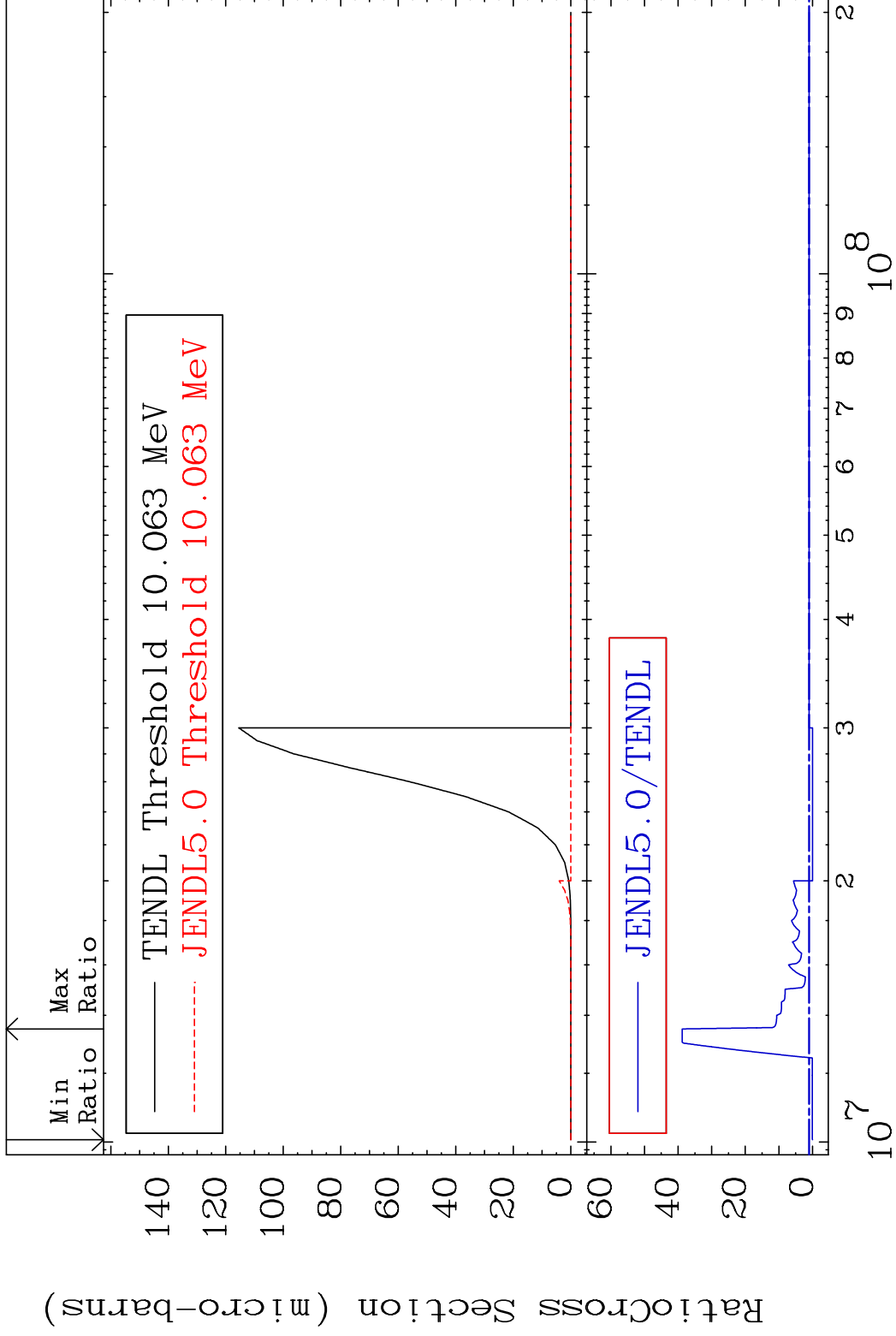
45-Rh-103

MAT 4525

(n,2p)

45-Rh-103

Cross Section -100.0 To 3779. %

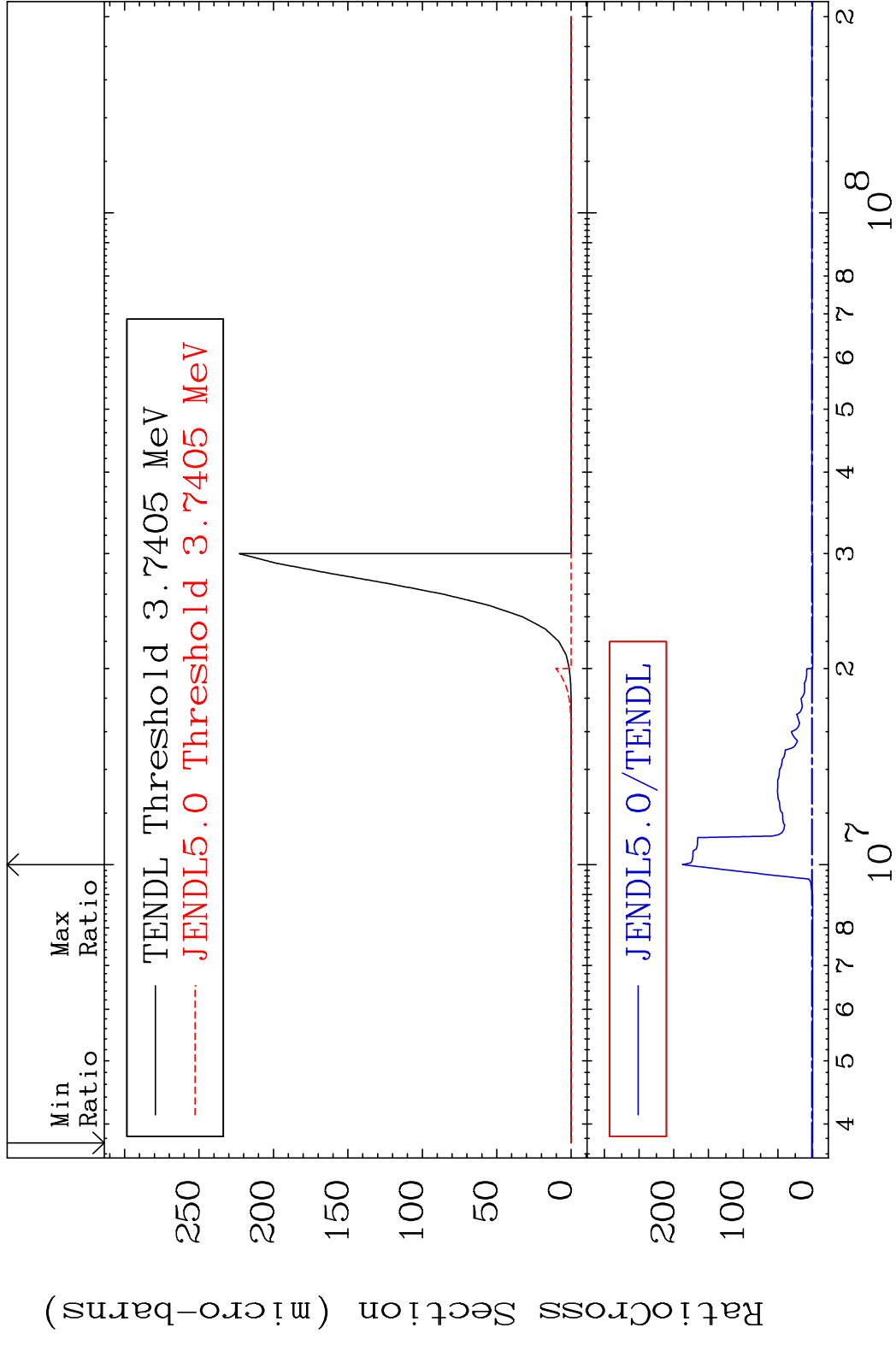


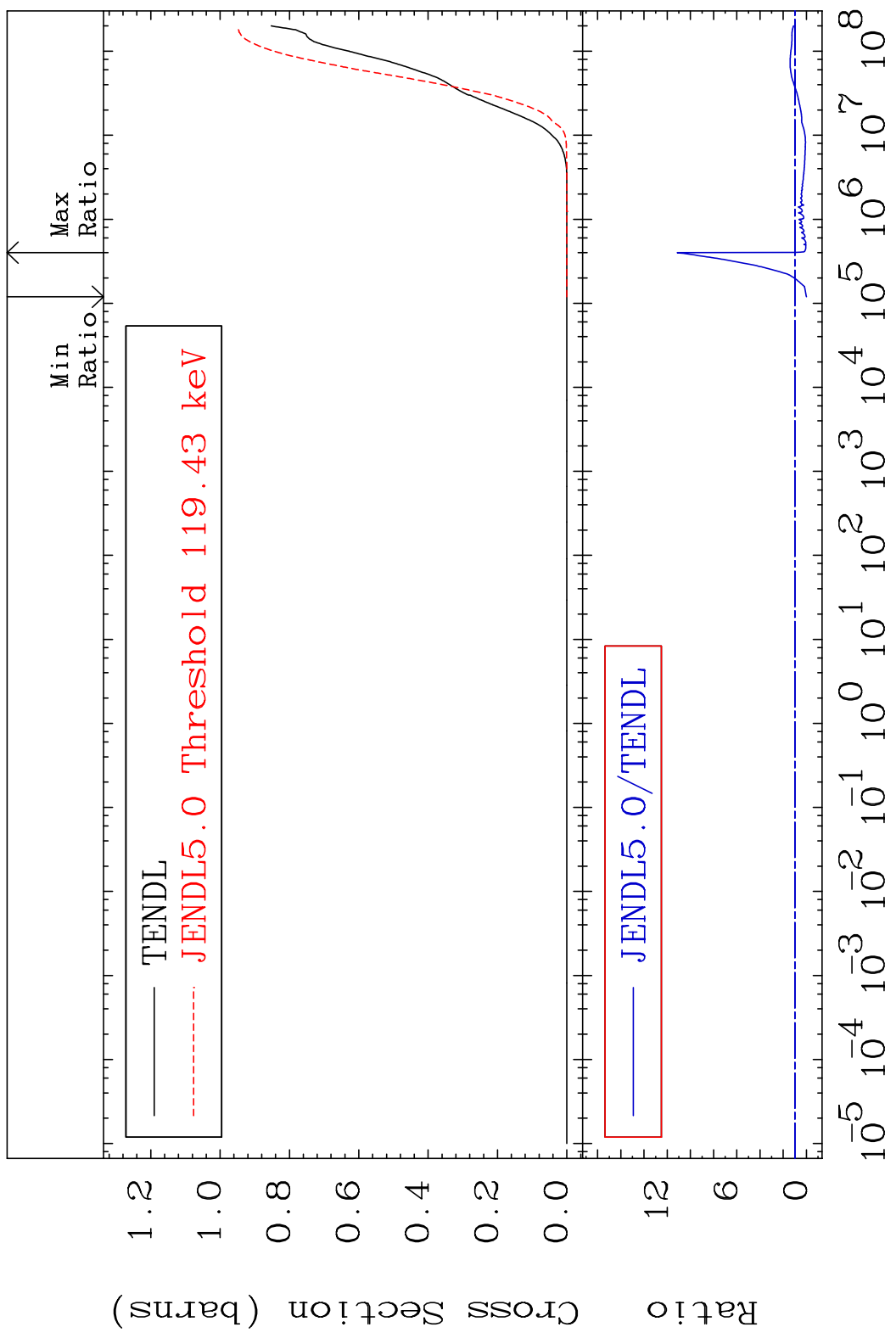
50

Incident Energy (eV)

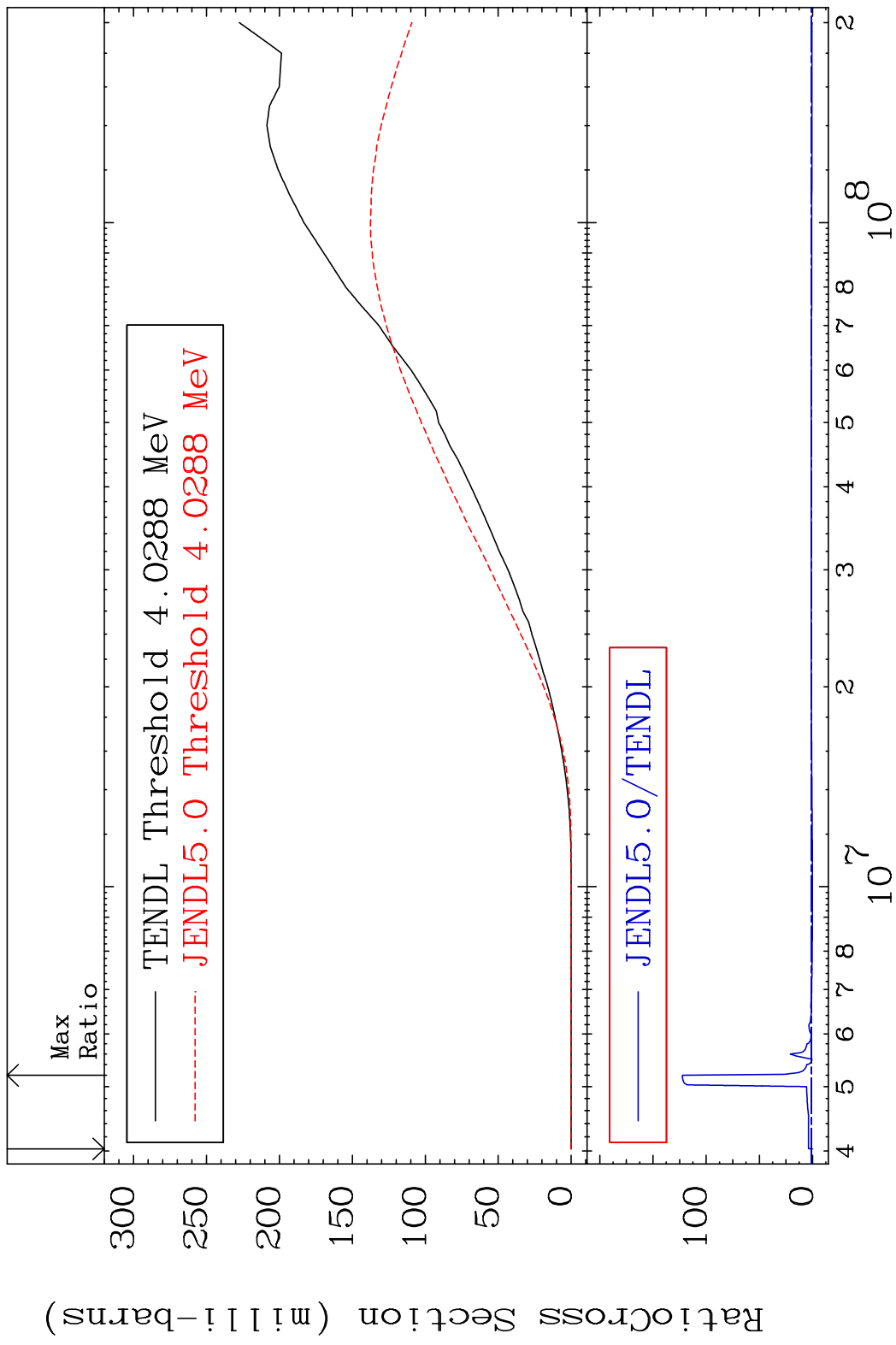
45-Rh-103

MAT 4525 (n,p)  $\alpha$  45-Rh-103  
 Cross Section -100.0 To 9999. %

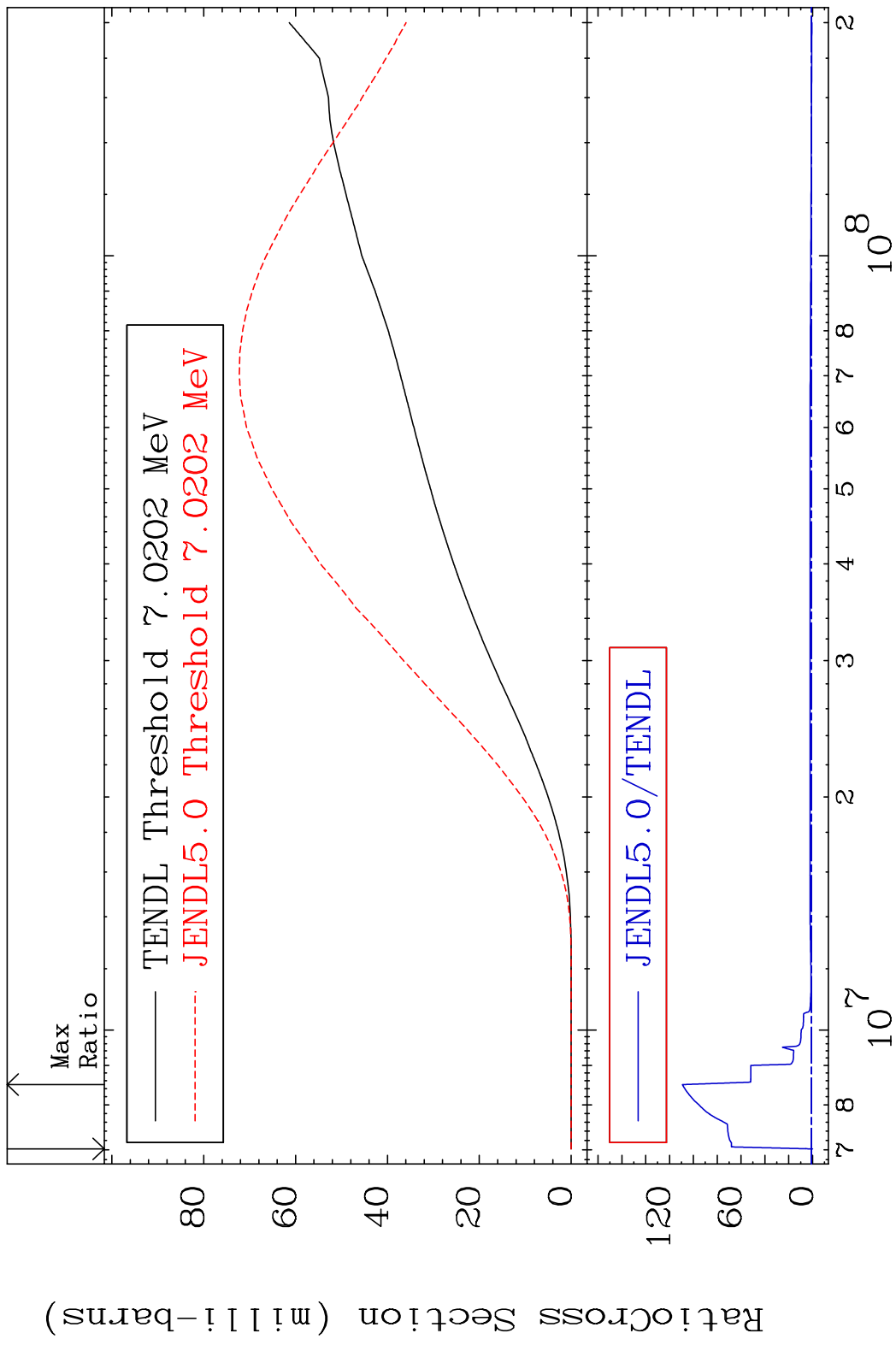




MAT 4525 Deuterium Production 45-Rh-103  
 Cross Section -100.0 To 9999. %



MAT 4525 Tritium Production 45-Rh-103  
 Cross Section -100.0 To 9999. %

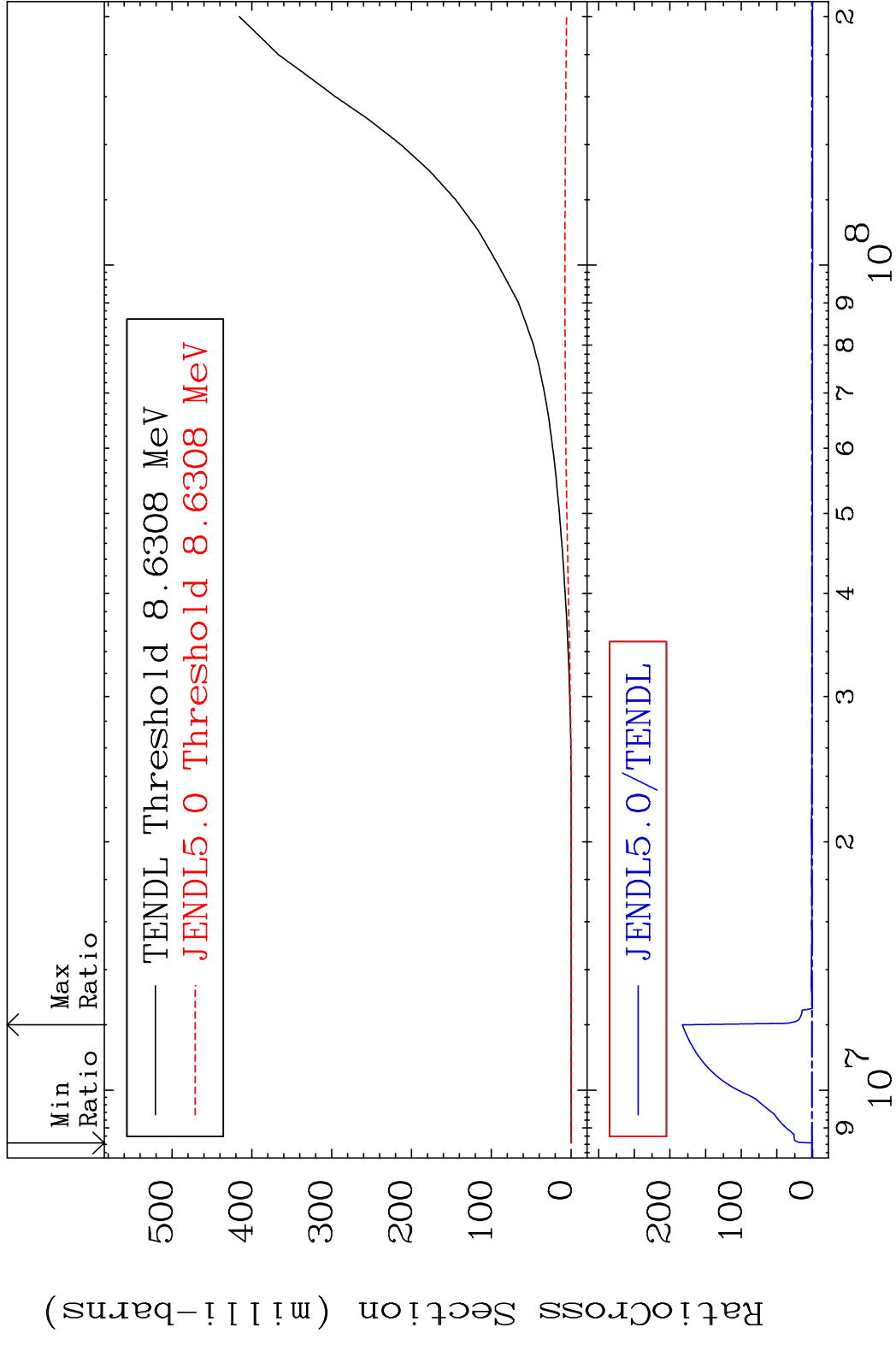


MAT 4525

He-3 Production

45-Rh-103

Cross Section -100.0 To 9999. %



55

Incident Energy (eV)

45-Rh-103

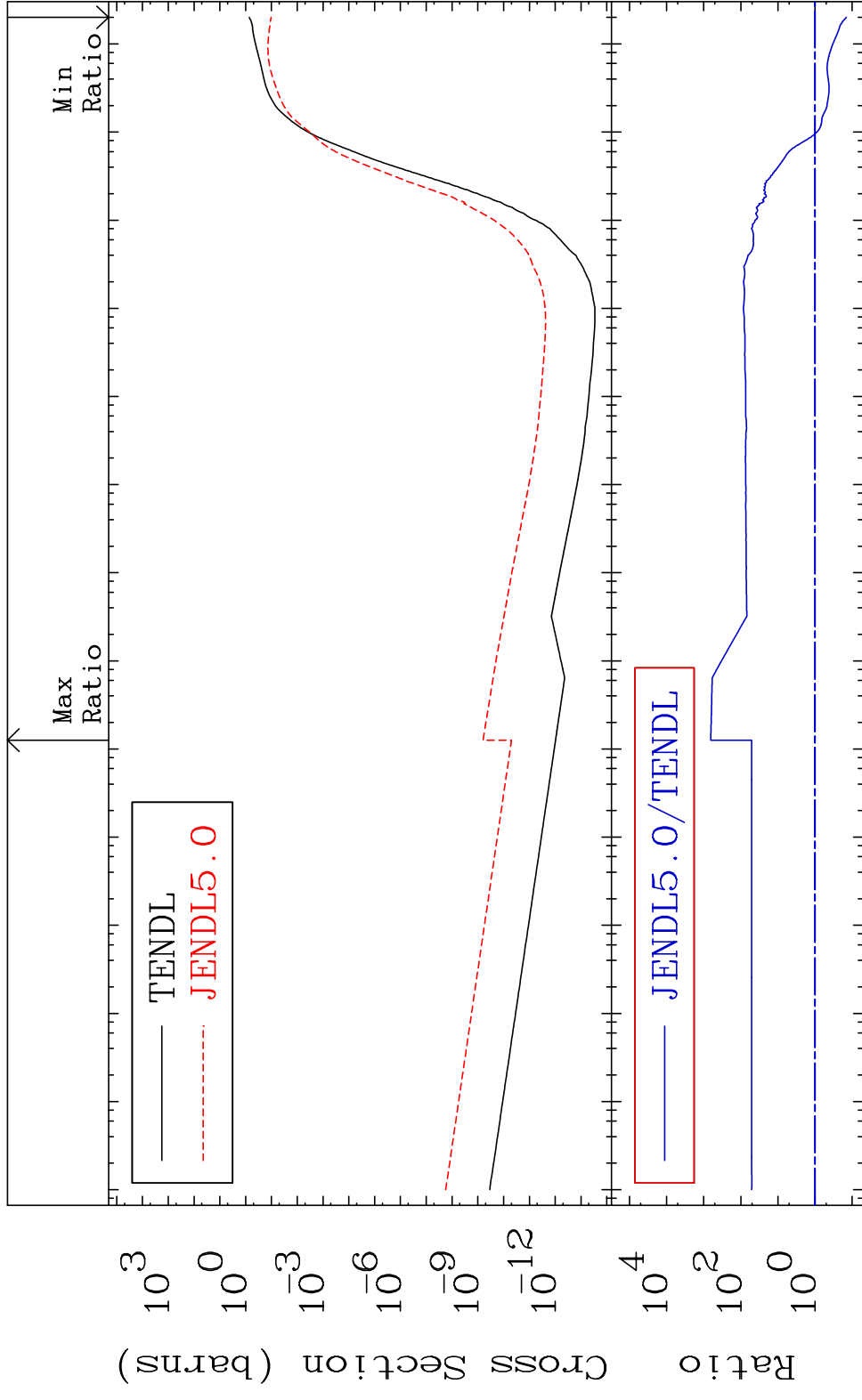


MAT 4525

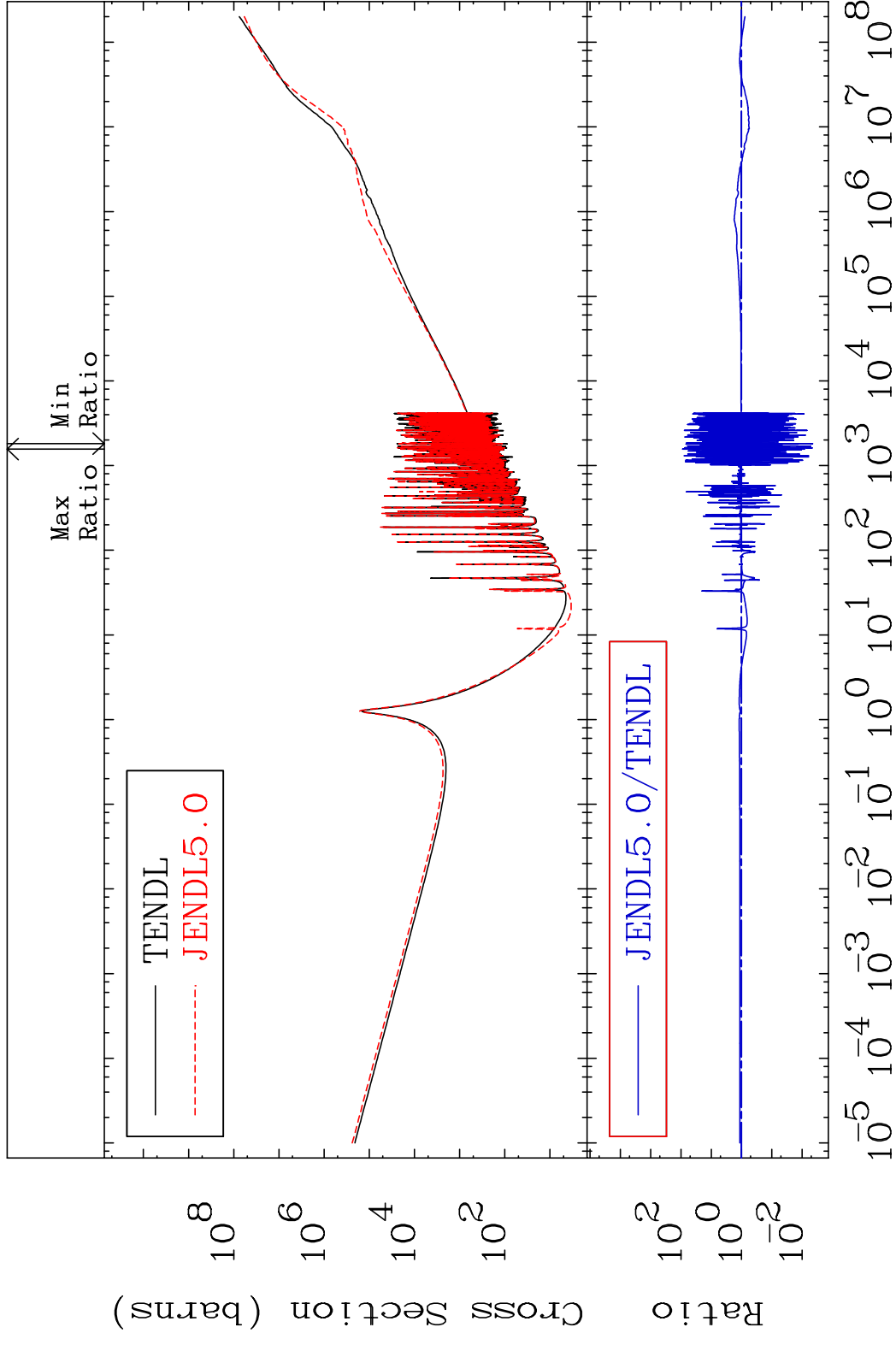
He-4 Production

45-Rh-103

Cross Section -85.75 To 9999. %



MAT 4525 Kerma total (eV-barns) 45-Rh-103  
 Cross Section -99.54 To 8867. %

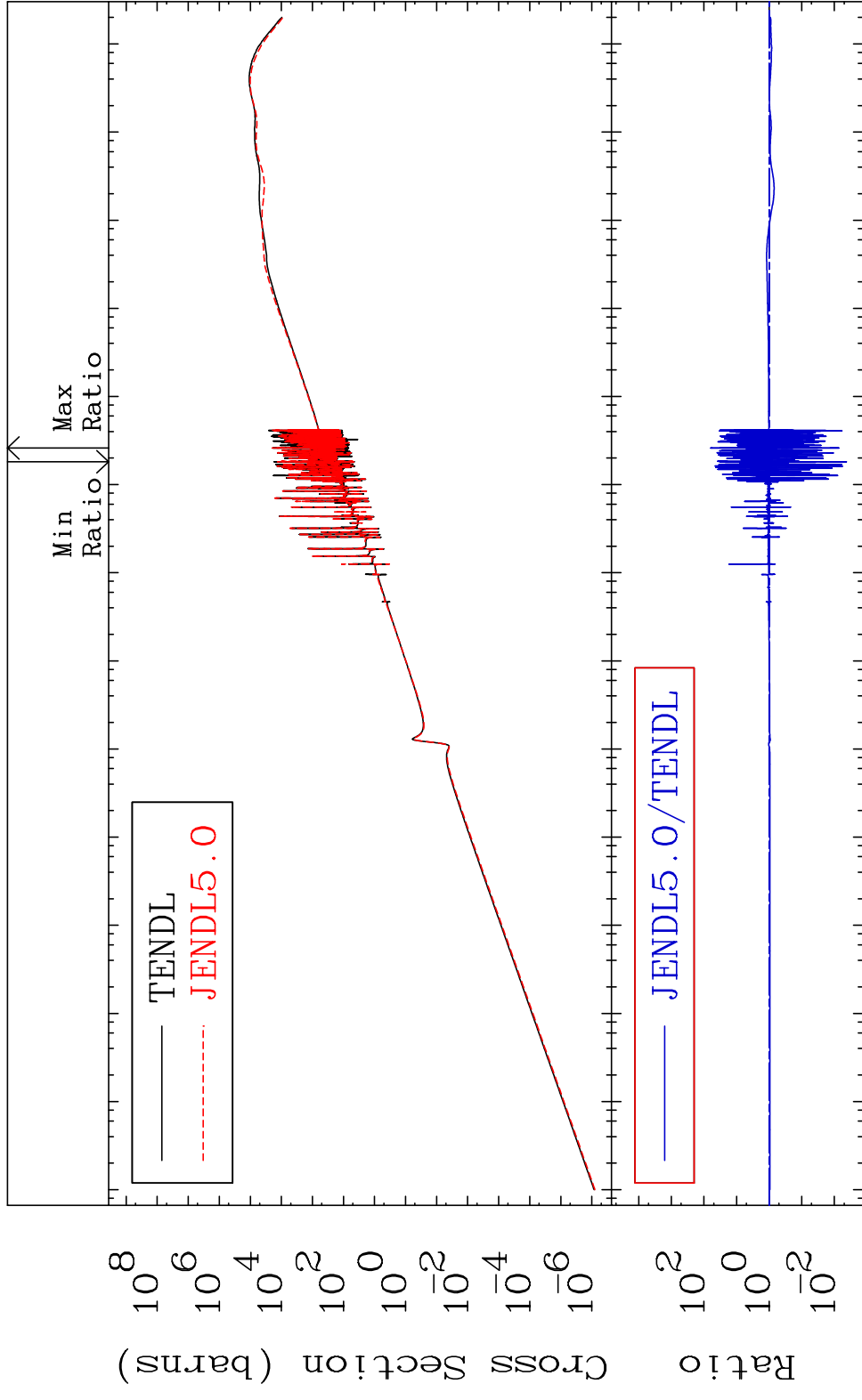


57 Incident Energy (eV) 45-Rh-103

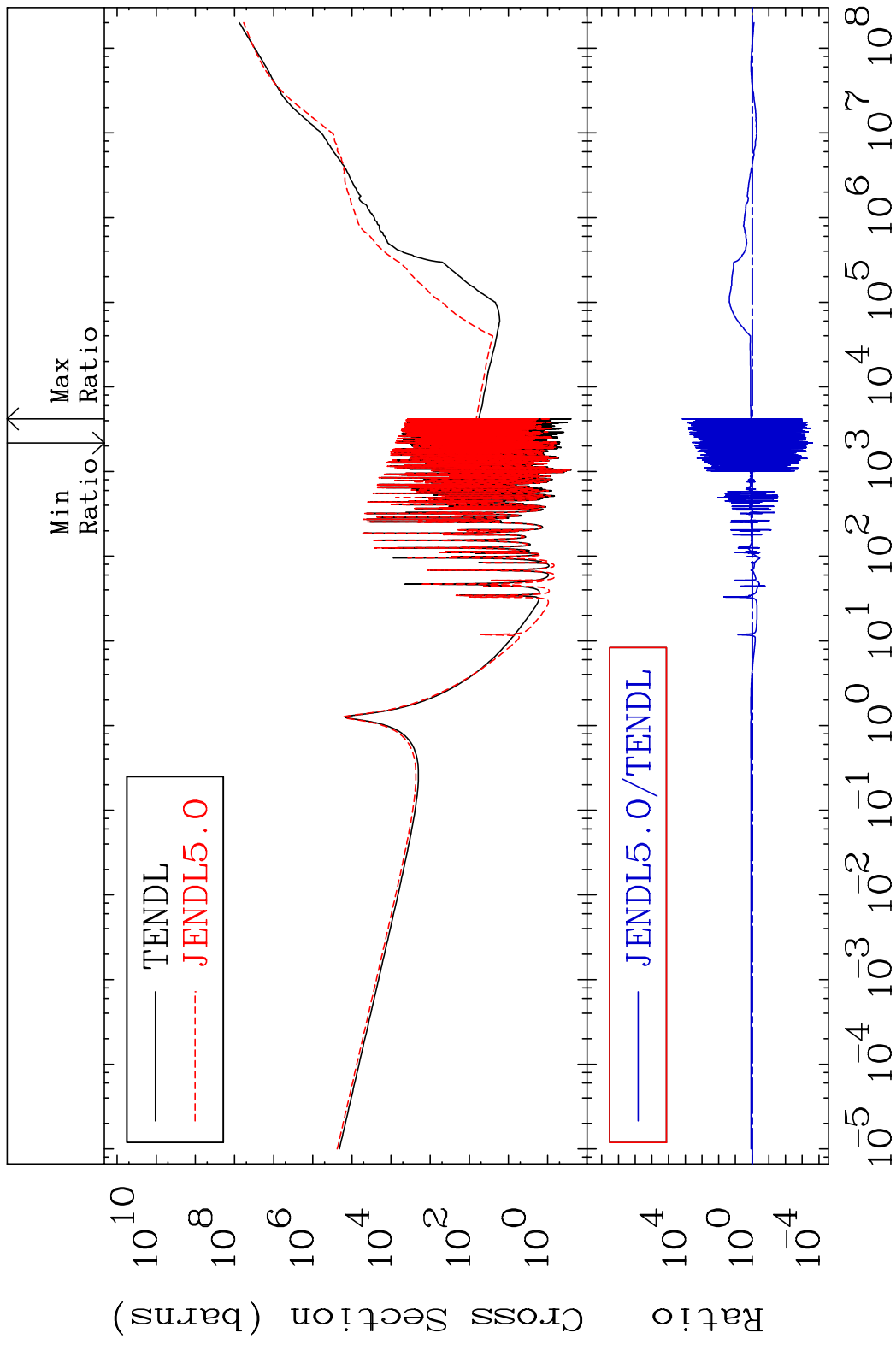
MAT 4525

Kerma elastic  
Cross Section

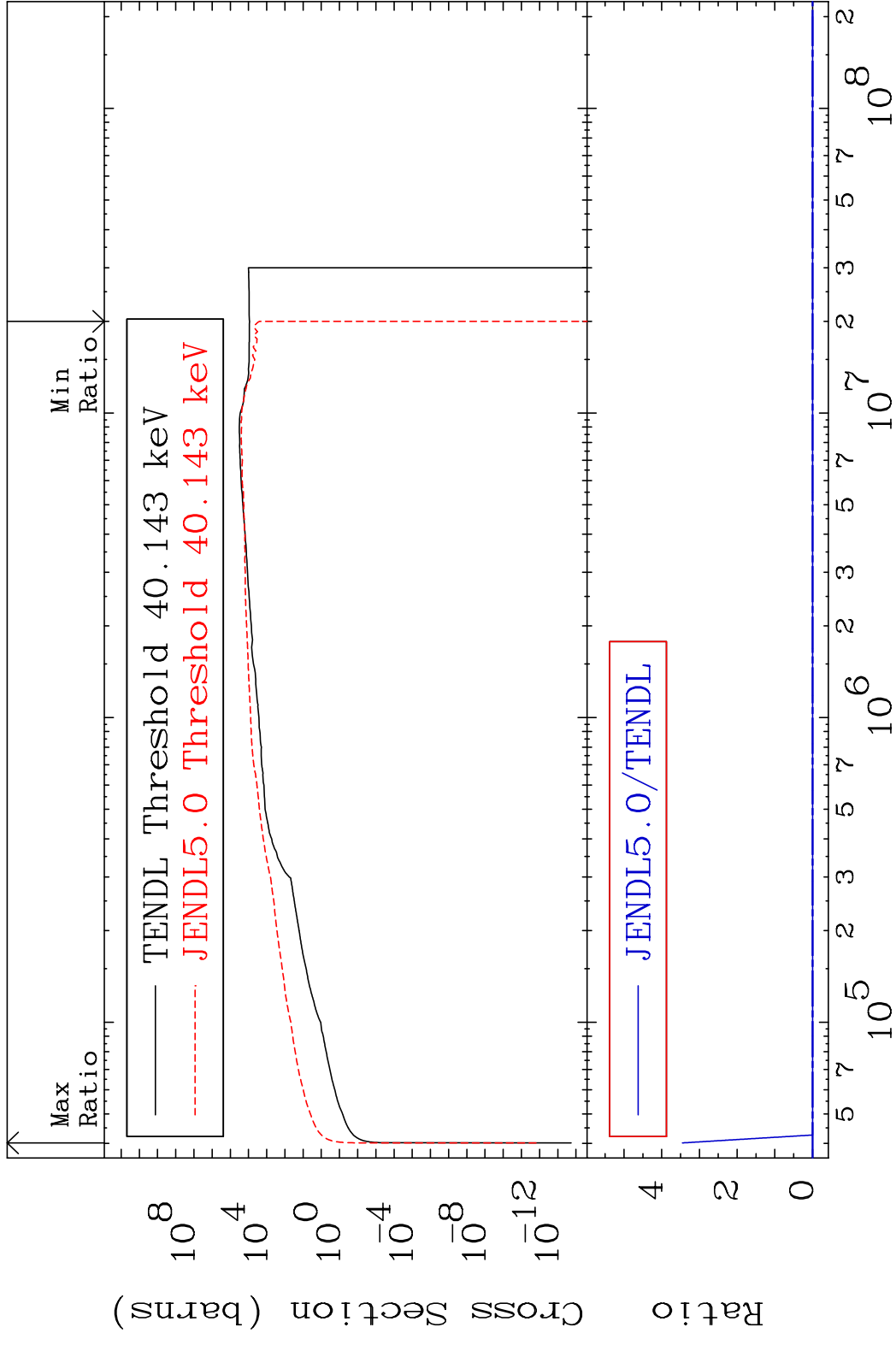
45-Rh-103  
-99.57 To 6098. %



MAT 4525 Kerma non-elastic (all but mt2) 45-Rh-103  
 Cross Section -99.98 To 9999. %

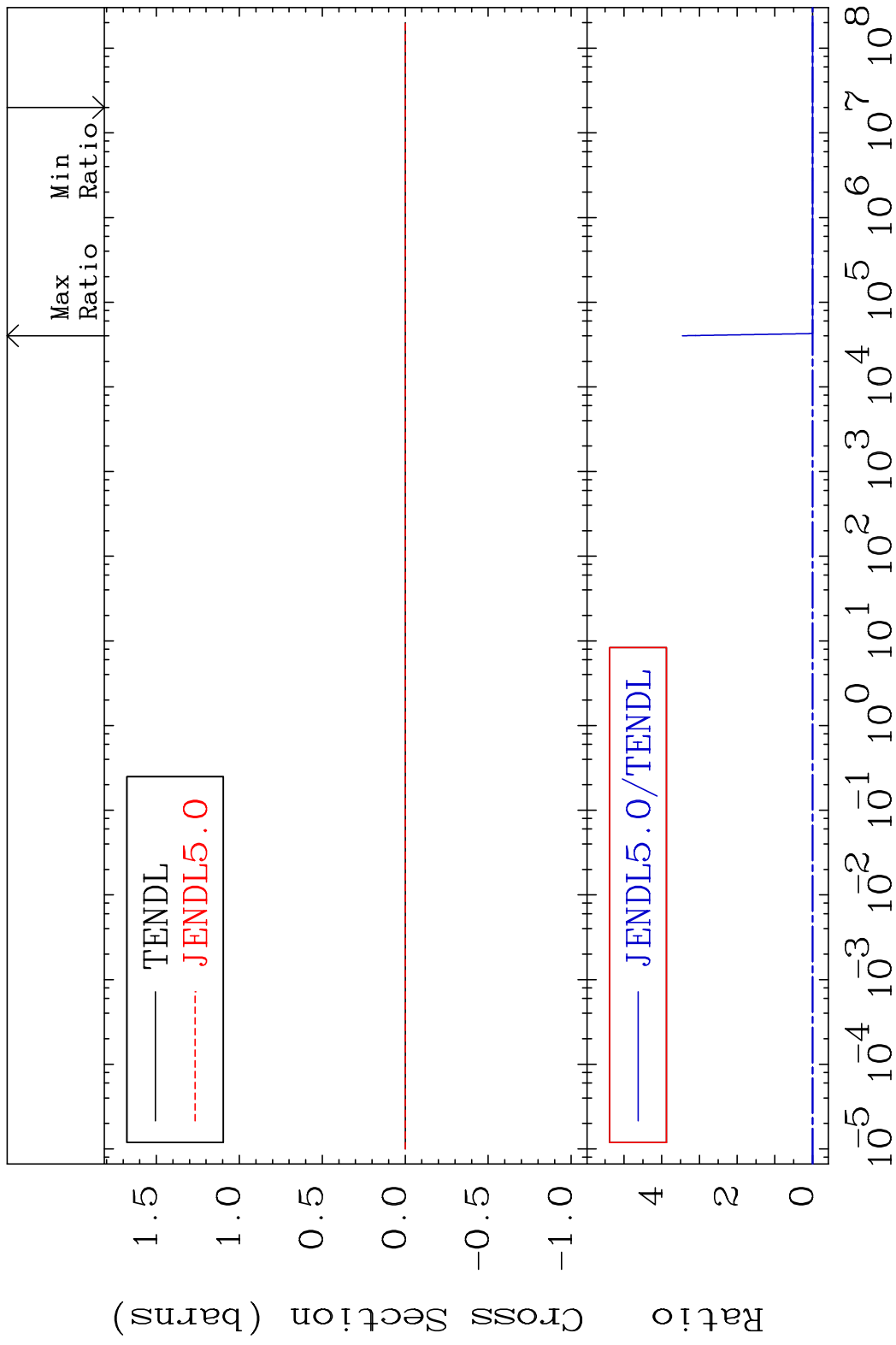


MAT 4525 Kerma inelastic (mt51-91) 45-Rh-103  
 Cross Section -100.0 To 9999. %

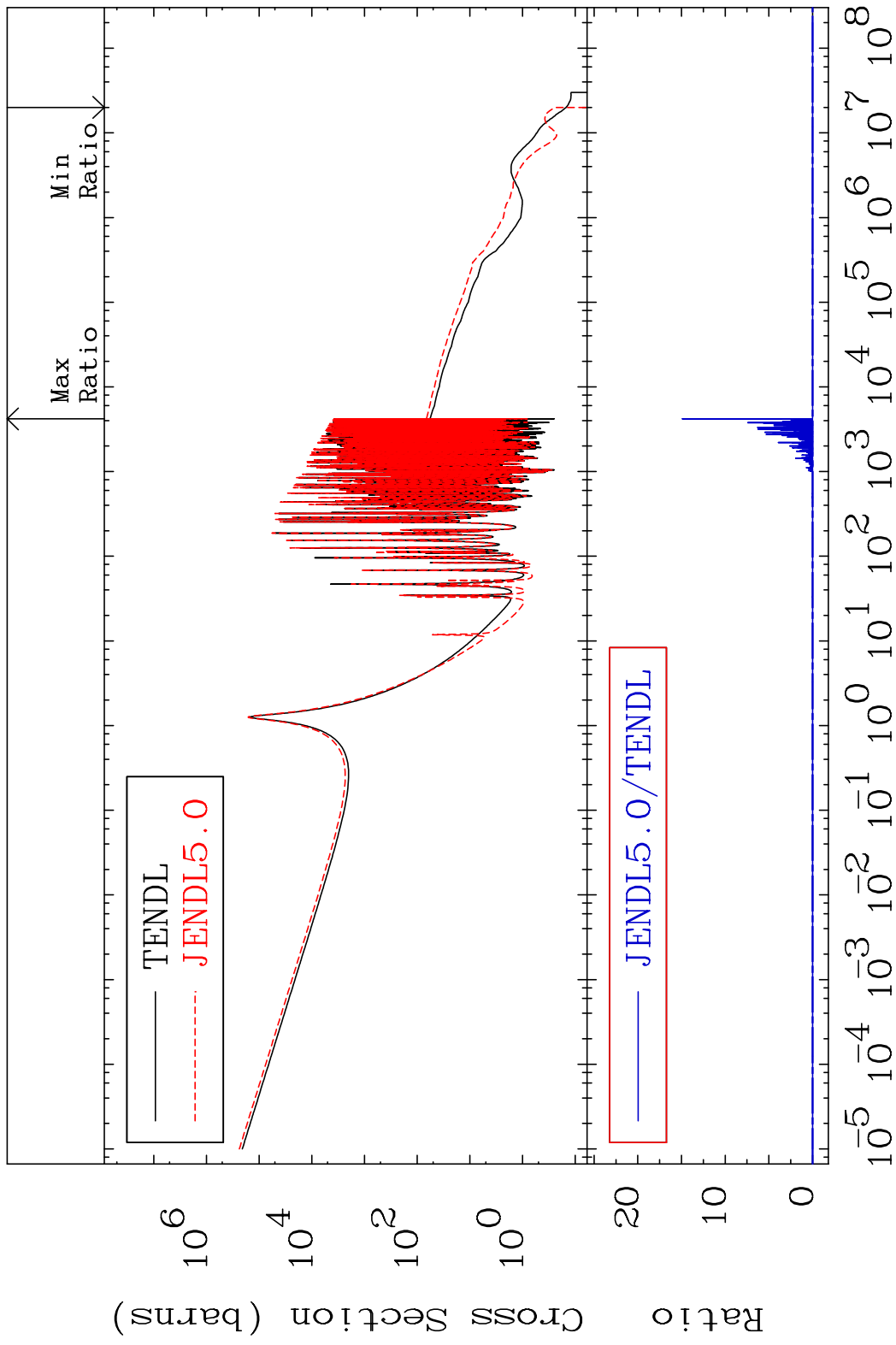


60 Incident Energy (eV) 45-Rh-103

MAT 4525 Kerma fission (mt18 or mt19-20-21-38) 45-Rh-103  
 Cross Section -100.0 To 9999. %

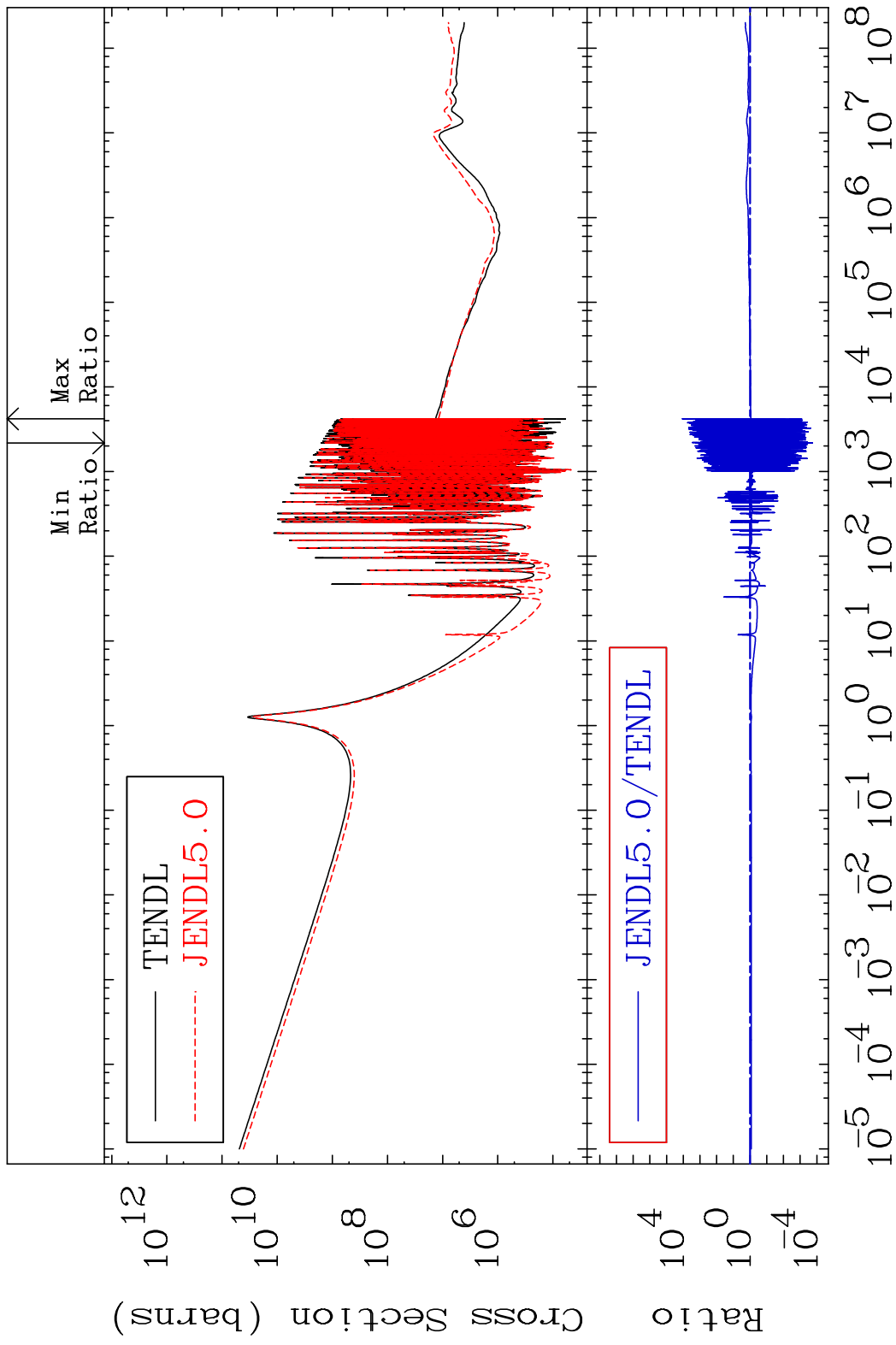


MAT 4525 Kerma capture (mt102) 45-Rh-103  
 Cross Section -100.0 To 9999. %



62 Incident Energy (eV) 45-Rh-103

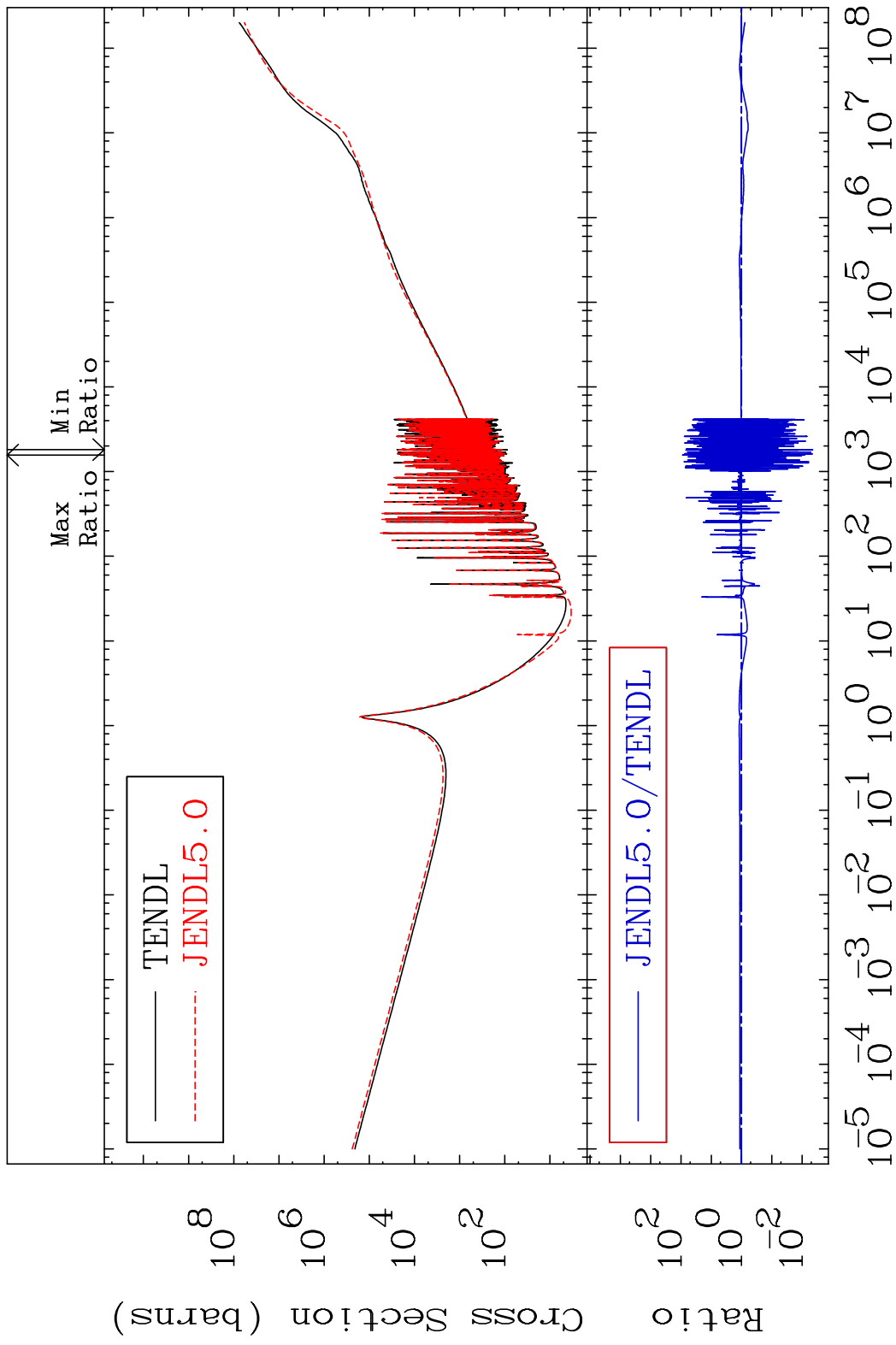
MAT 4525 Total photon (eV-barns) 45-Rh-103  
 Cross Section -99.98 To 9999. %



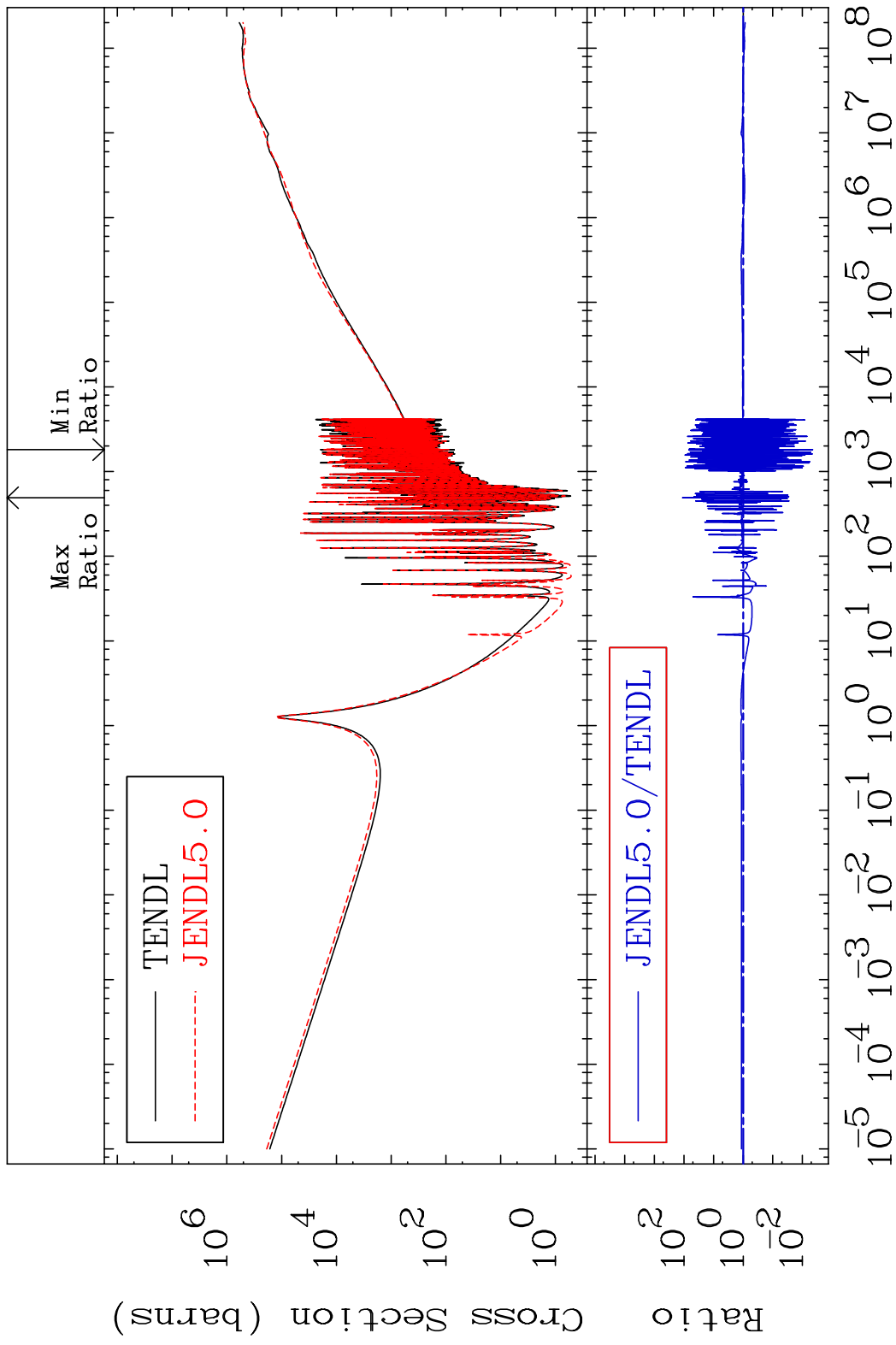
63 Incident Energy (eV) 45-Rh-103



MAT 4525 Total kinematic kerma (high limit) 45-Rh-103  
 Cross Section -99.54 To 8867. %



MAT 4525      Dpa total (eV-barns)      45-Rh-103  
 Cross Section      -99.54 To 9999. %



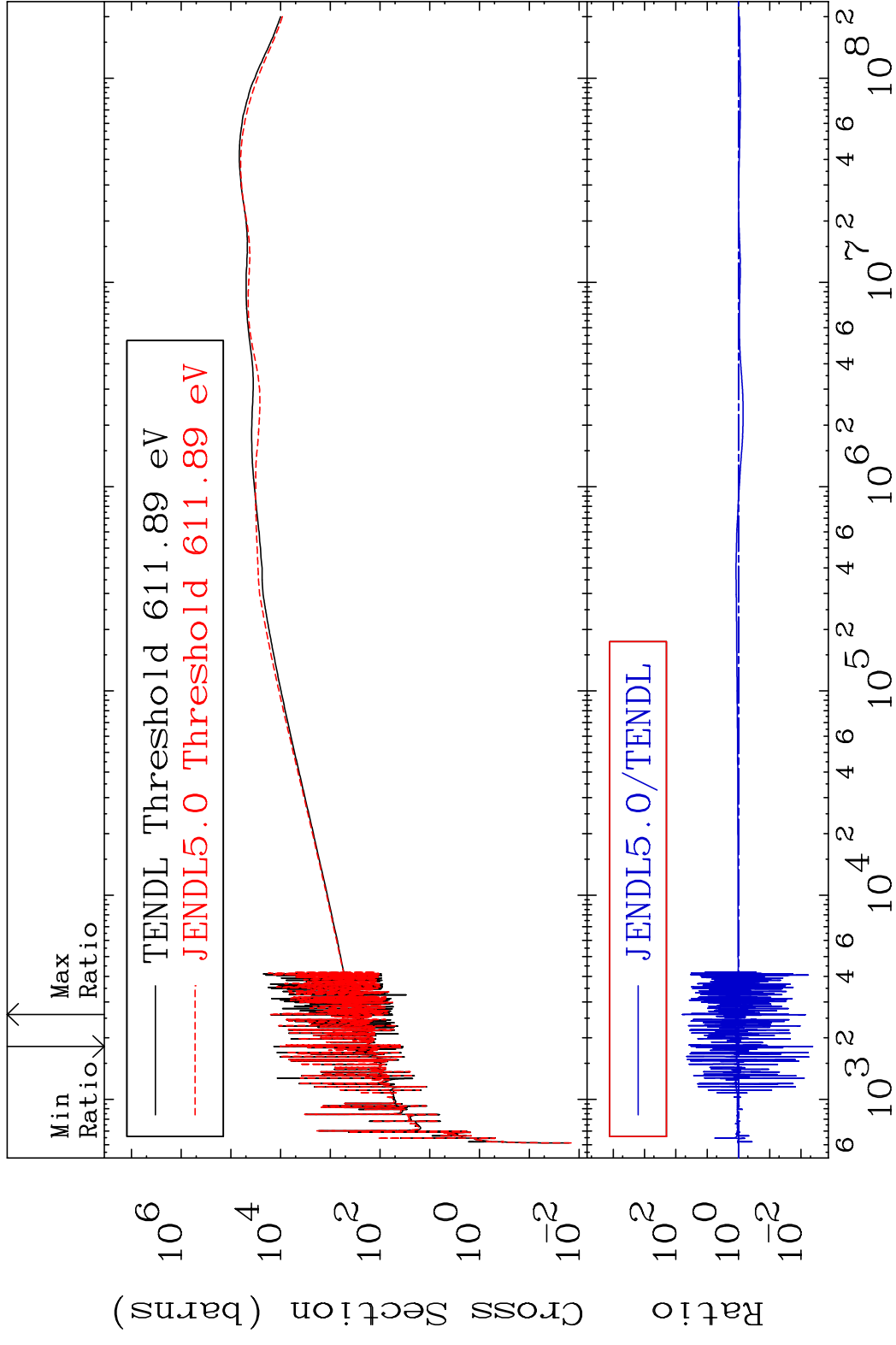
65      Incident Energy (eV)      45-Rh-103

MAT 4525

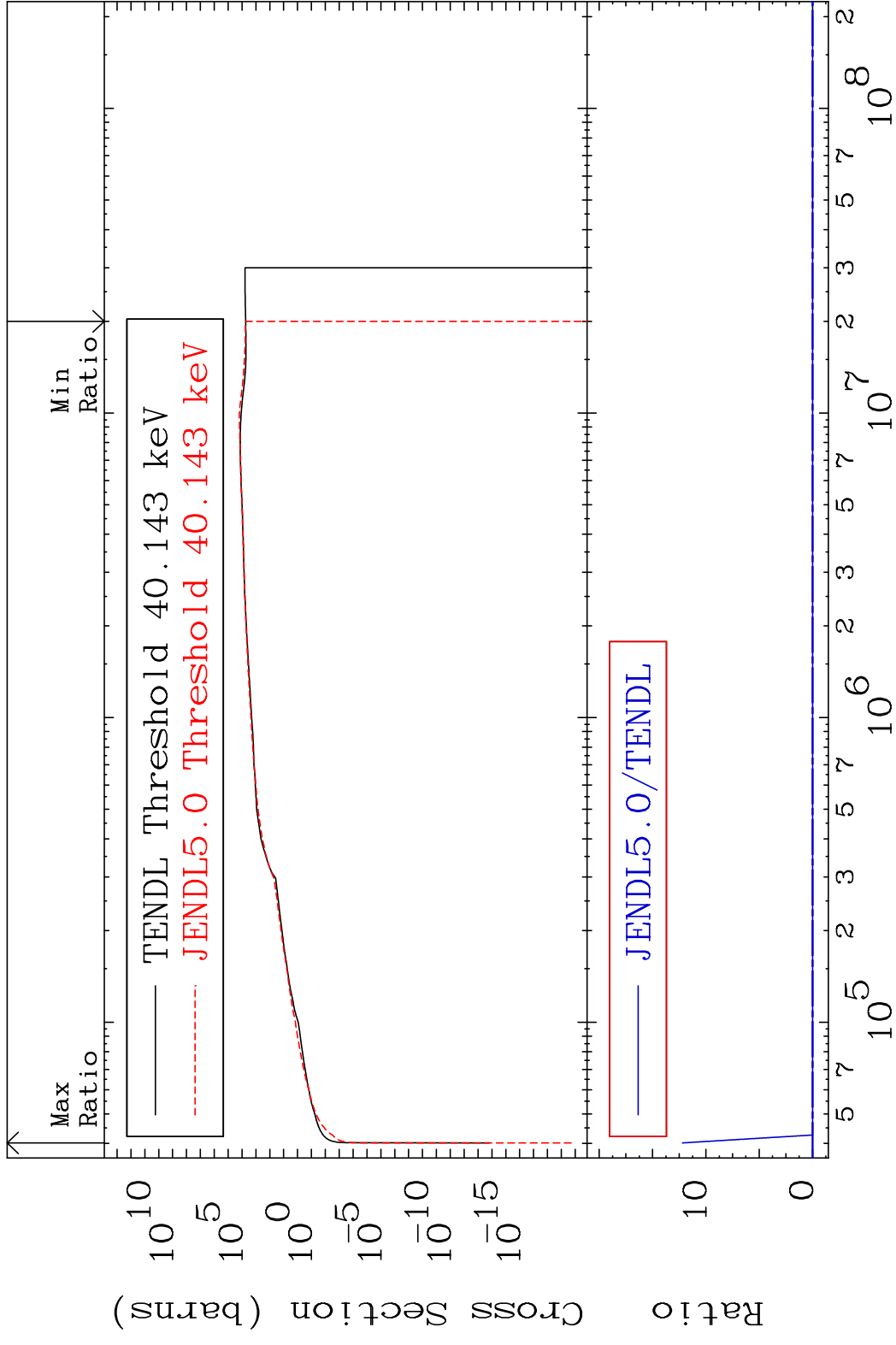
Dpa elastic (mt2)

45-Rh-103

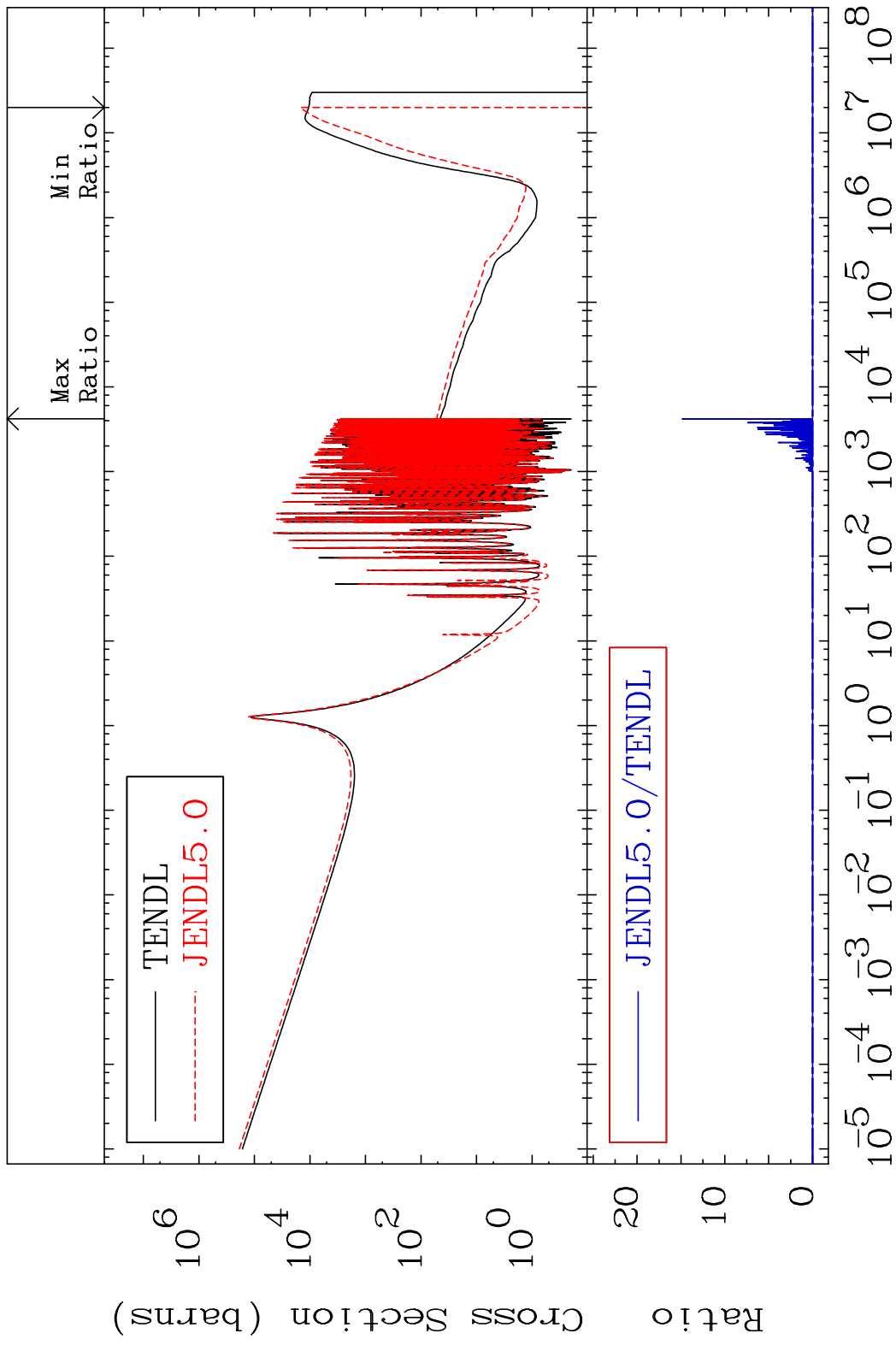
Cross Section -99.57 To 6101. %

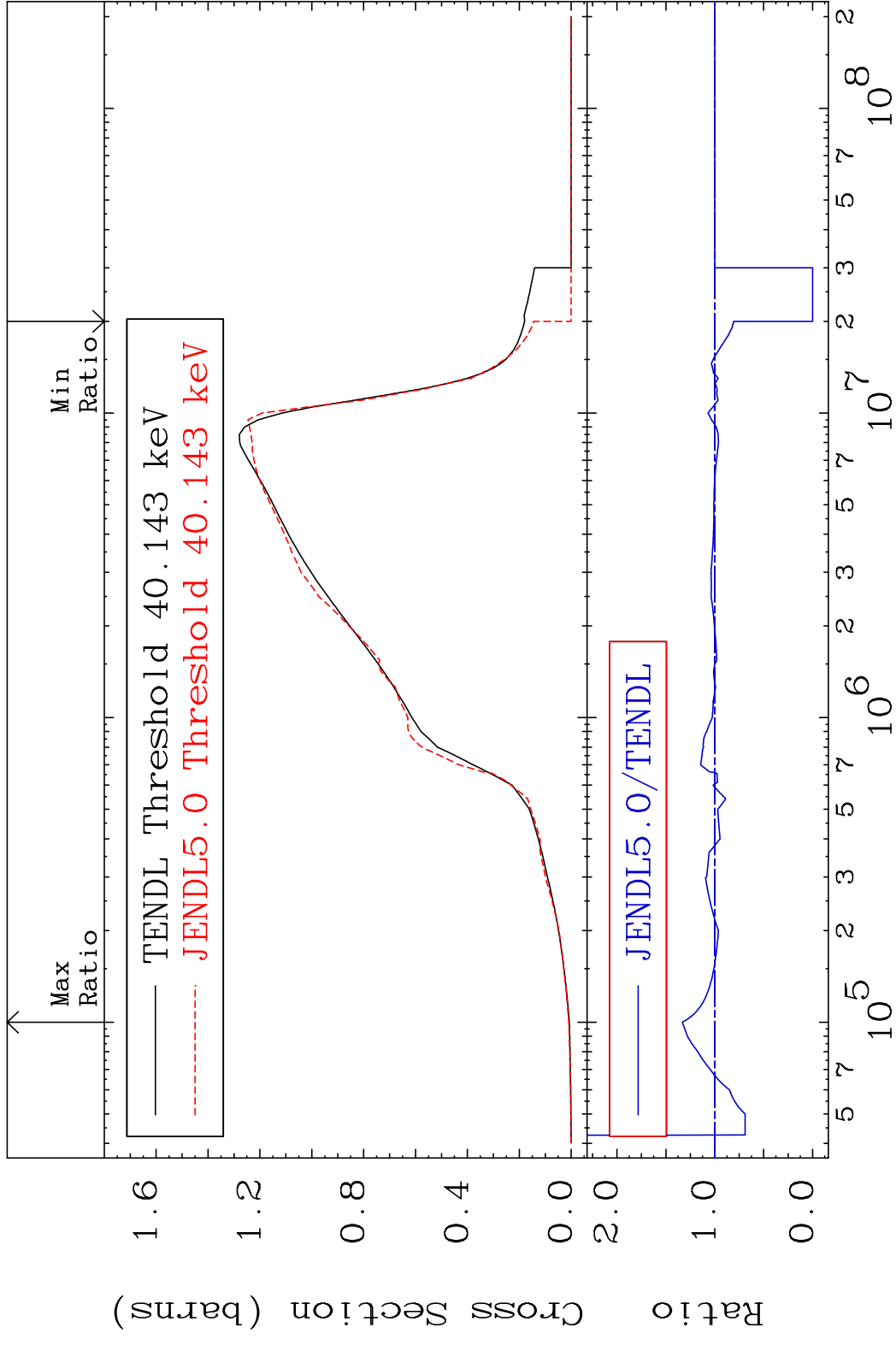


MAT 4525 Dpa inelastic (mt51-91) 45-Rh-103  
 Cross Section -100.0 To 9999. %

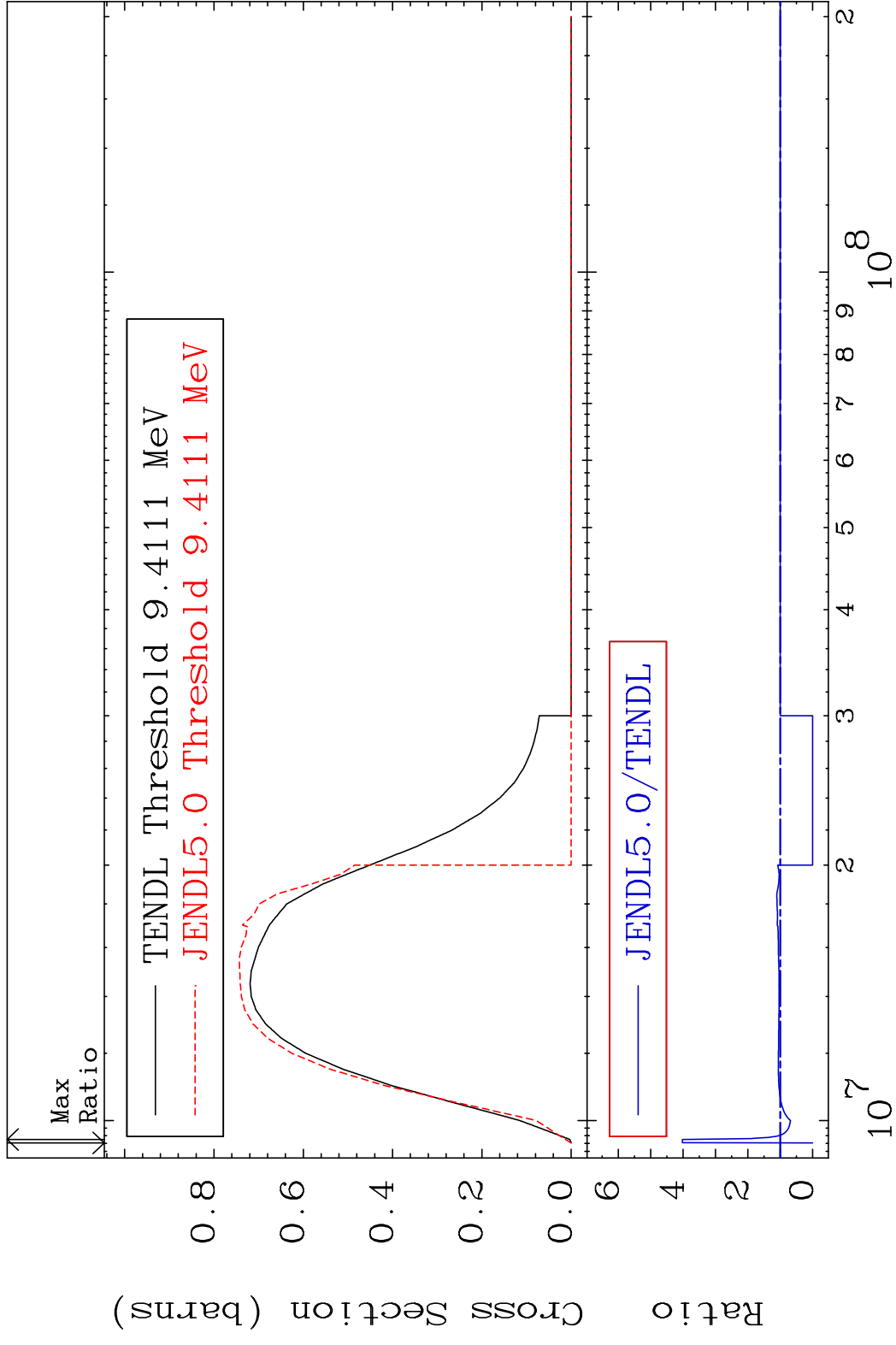


MAT 4525 Dpa disappearance (mt102 -120) 45-Rh-103  
 Cross Section -100.0 To 9999. %



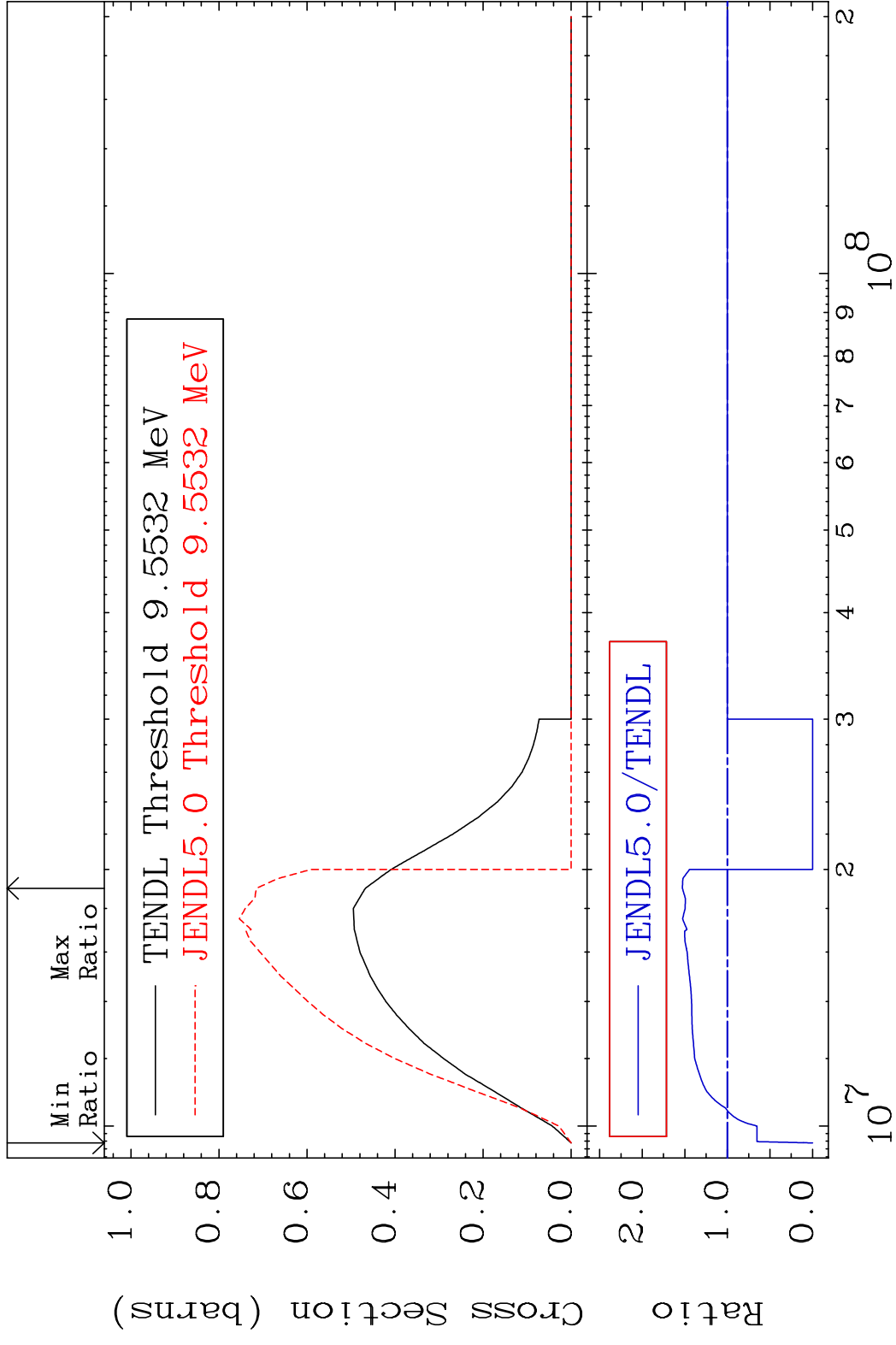


MAT 4525 (n,2n):45-Rh-102g 45-Rh-103  
 Radionuclide Production Cross Section 180.0 dth 302.0 %



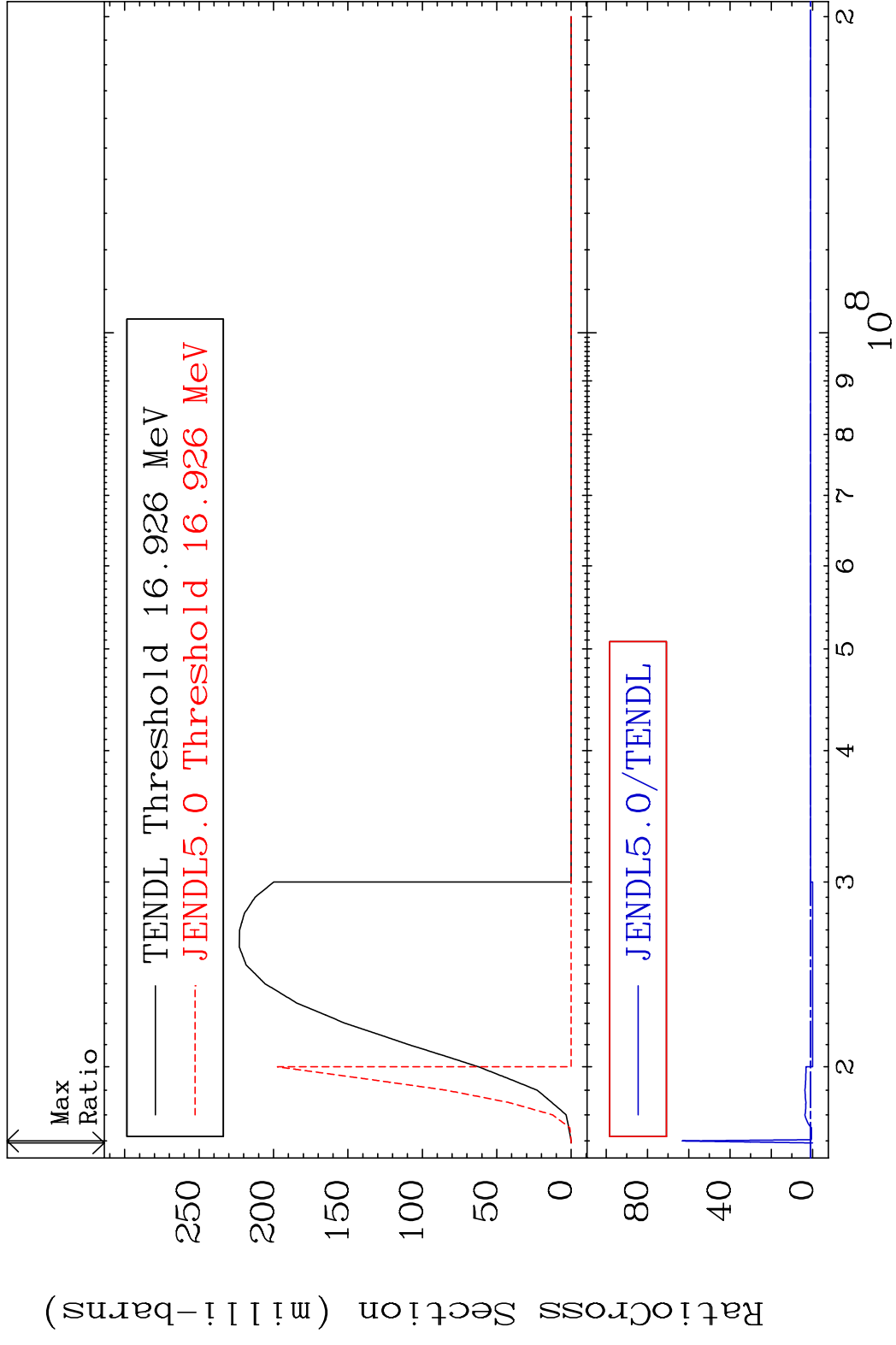
70 Incident Energy (eV) 45-Rh-103

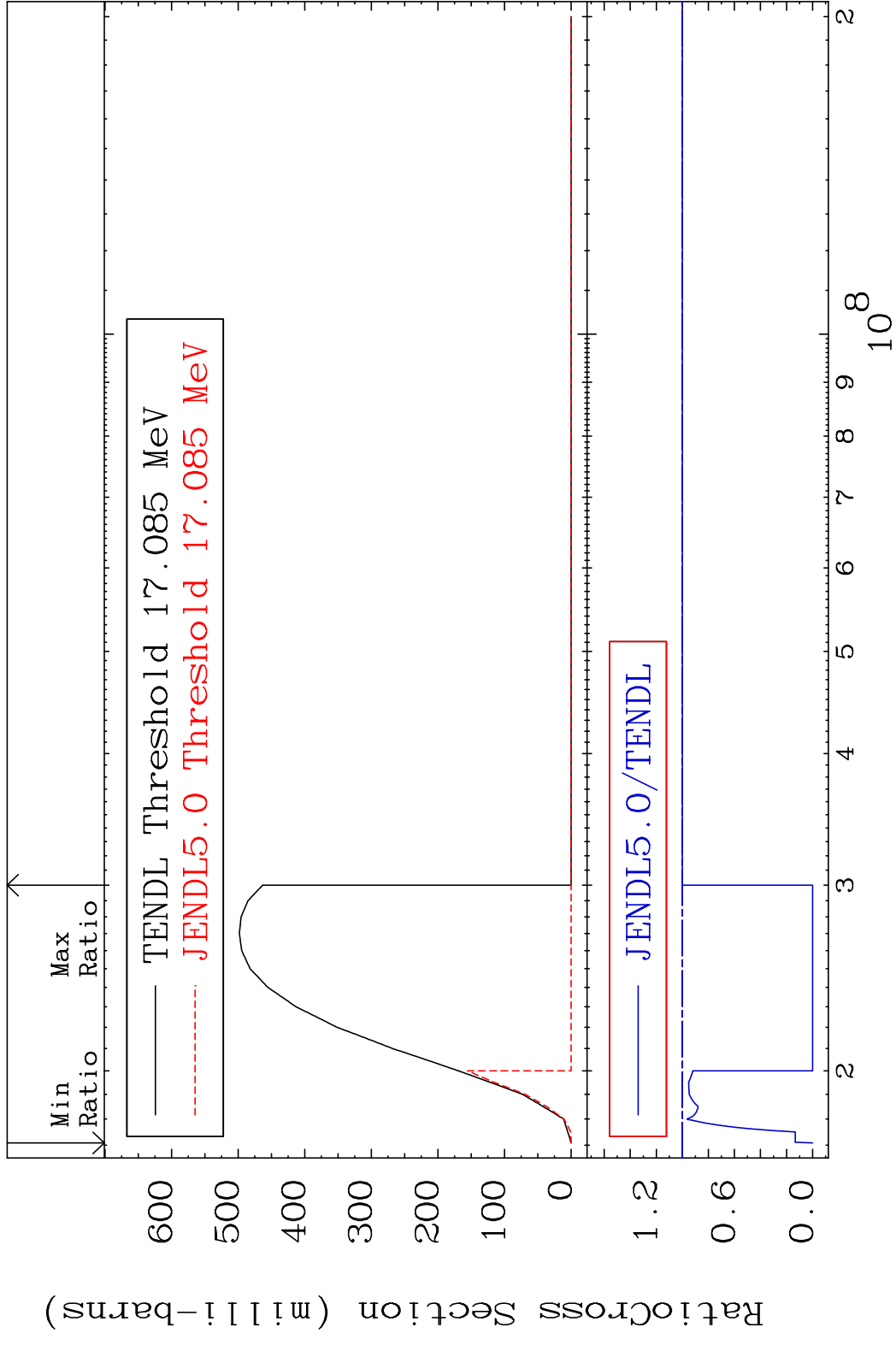
MAT 4525 (n,2n):45-Rh-102m5 45-Rh-103  
 Radionuclide Production Cross Section 180.01 dth 52.89 %



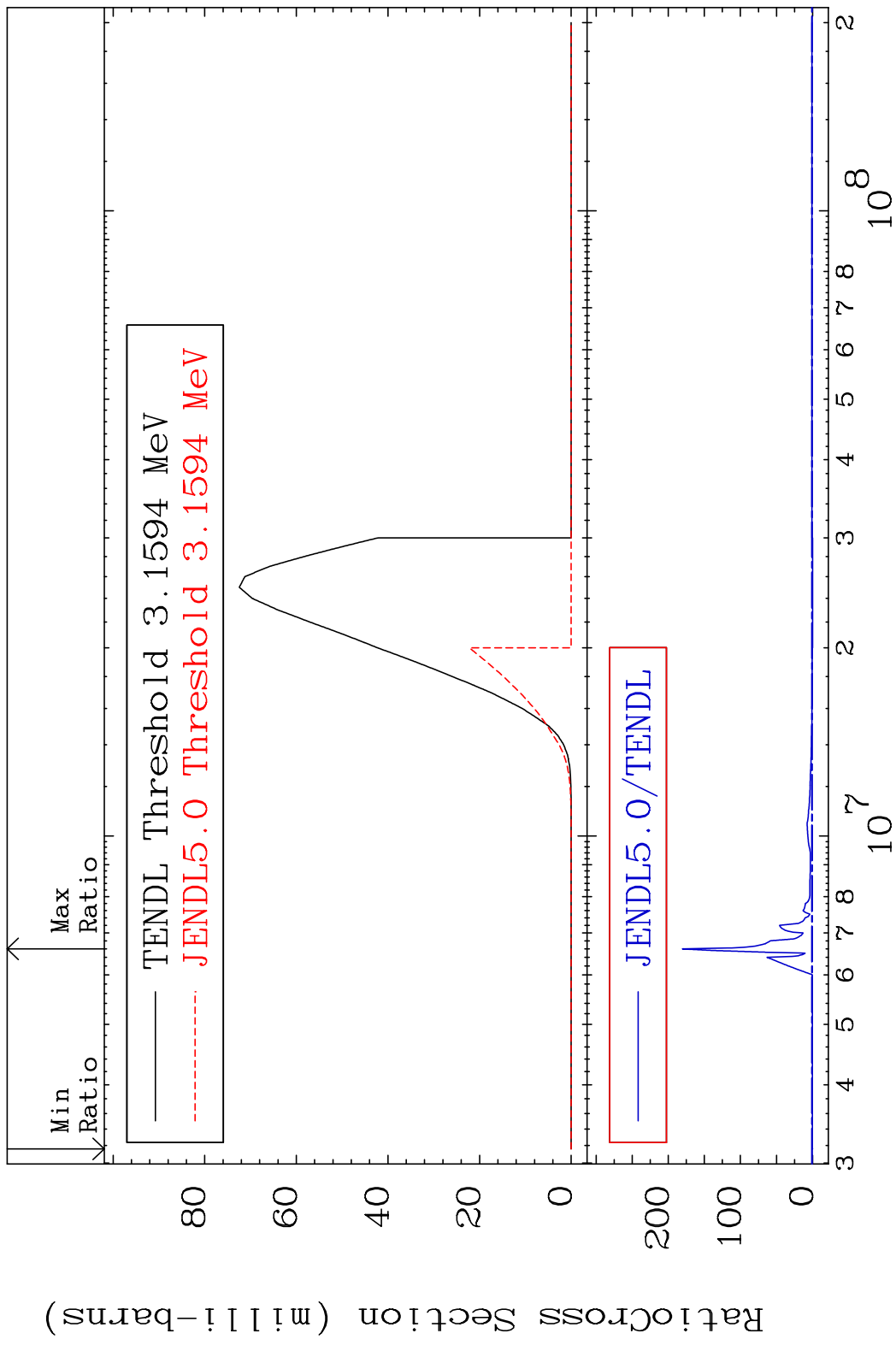


MAT 4525 (n,3n):45-Rh-101g 45-Rh-103  
 Radionuclide Production Cross Section Ratio 6210. %

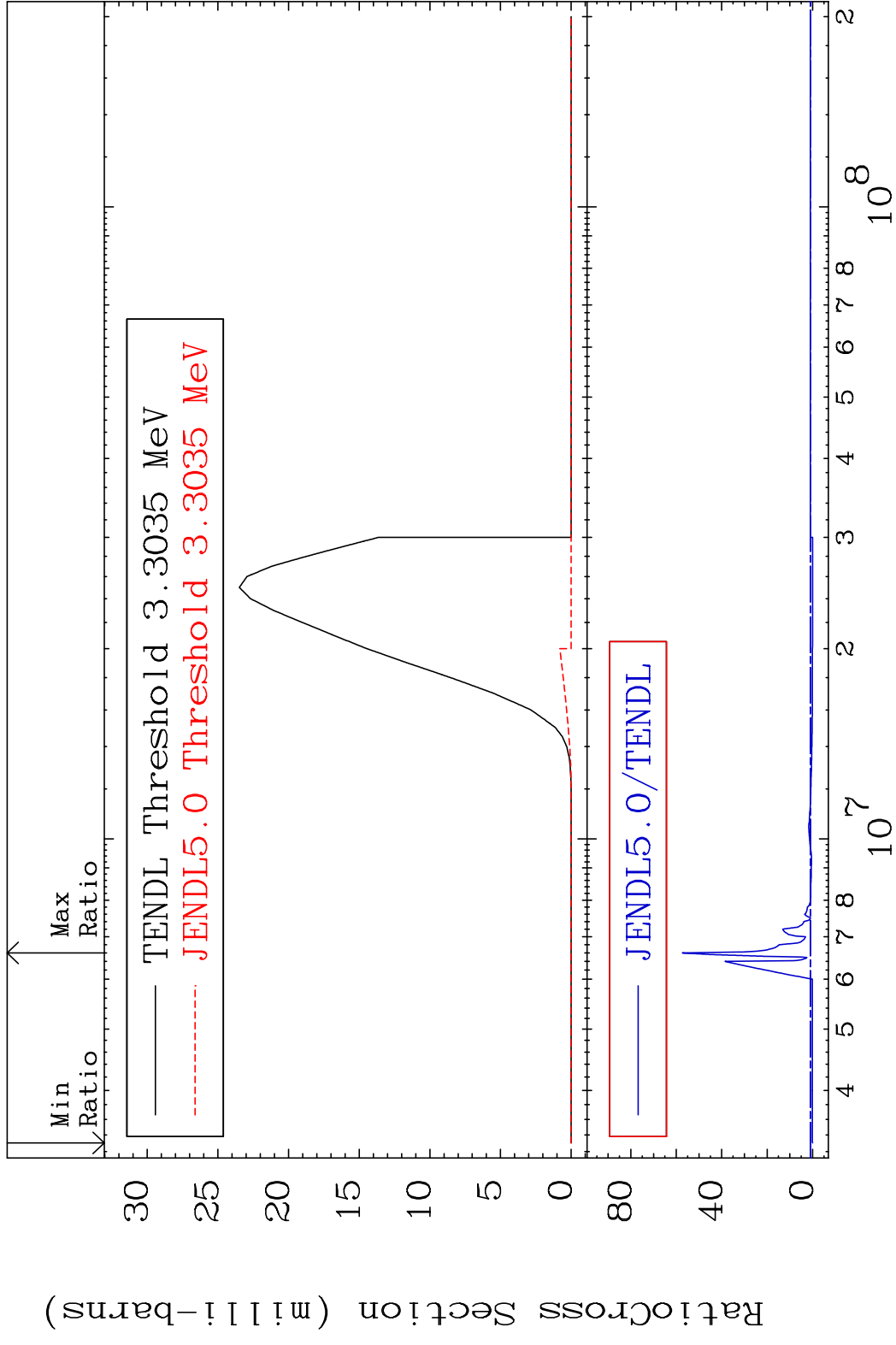




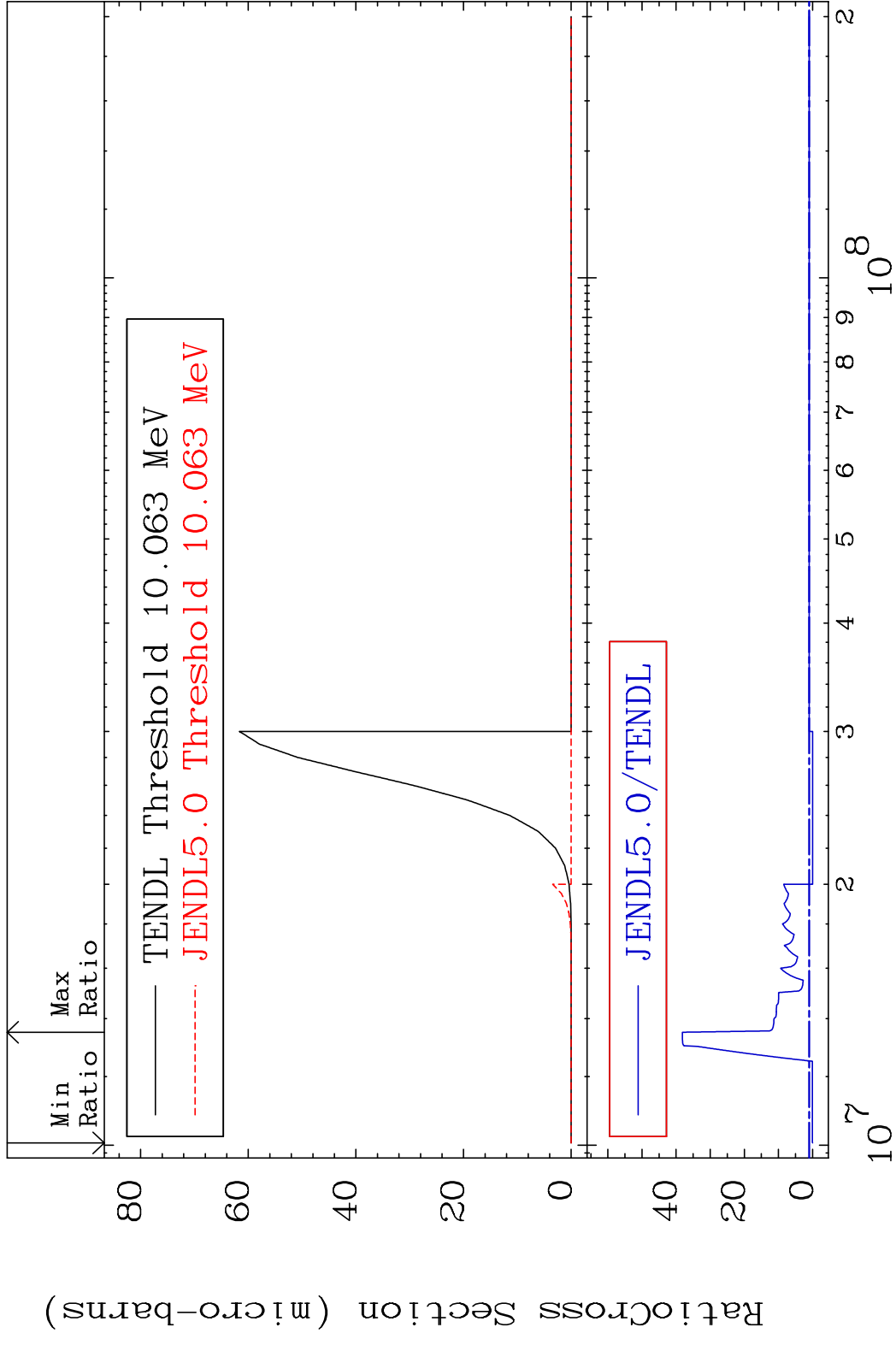
MAT 4525 (n, n')  $\alpha$ :43-Tc-99g 45-Rh-103  
 Radionuclide Production Cross Section Ratio 9999. %



MAT 4525 (n, n')  $\alpha$ :43-Tc-99m2 45-Rh-103  
 Radionuclide Production Cross Section Ratio 5633. %

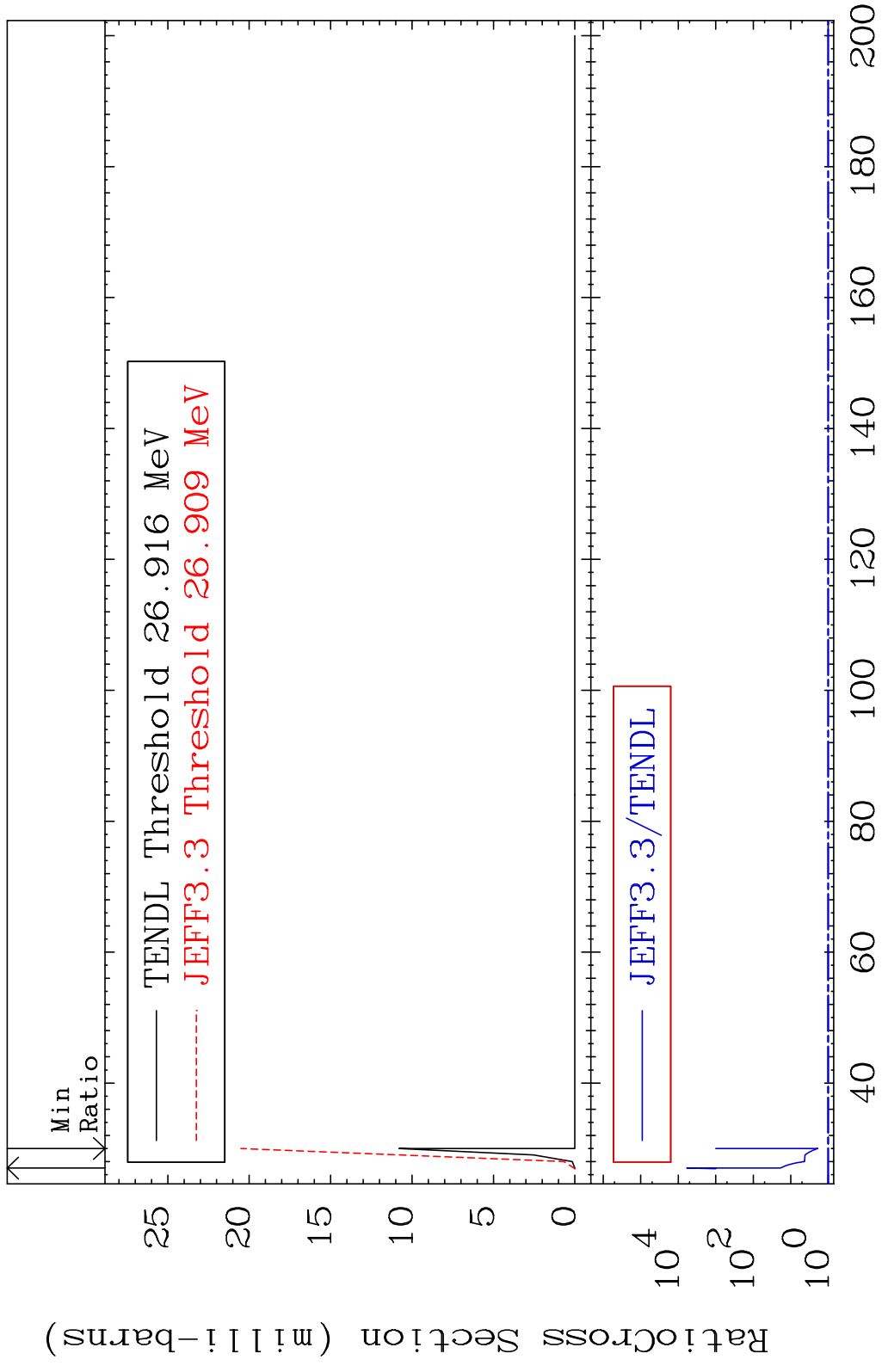


MAT 4525 (n,2p):43-Tc-102g 45-Rh-103  
 Radionuclide Production Cross Section 180.01 dth 3717. %

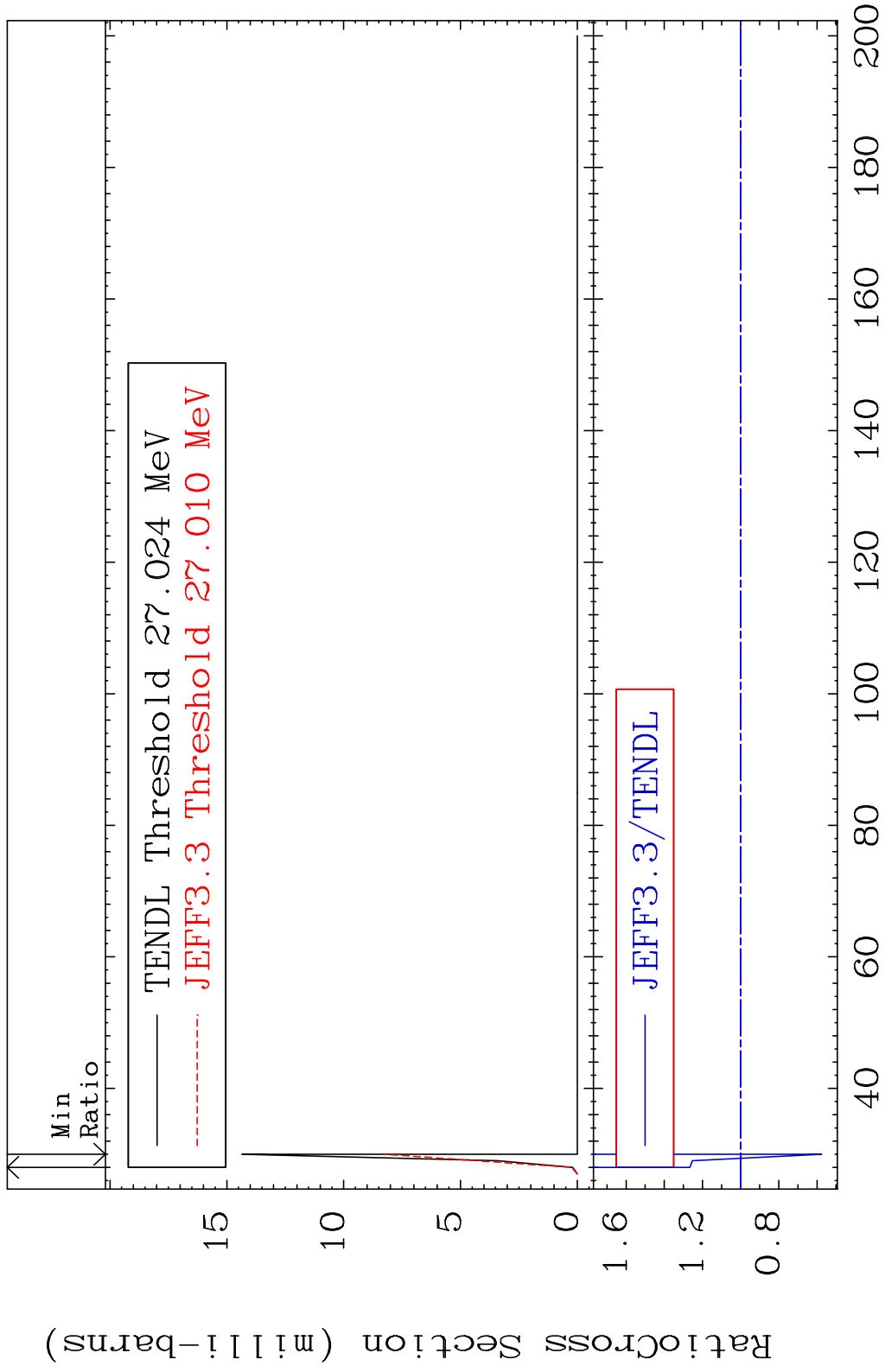


76 Incident Energy (eV) 45-Rh-103

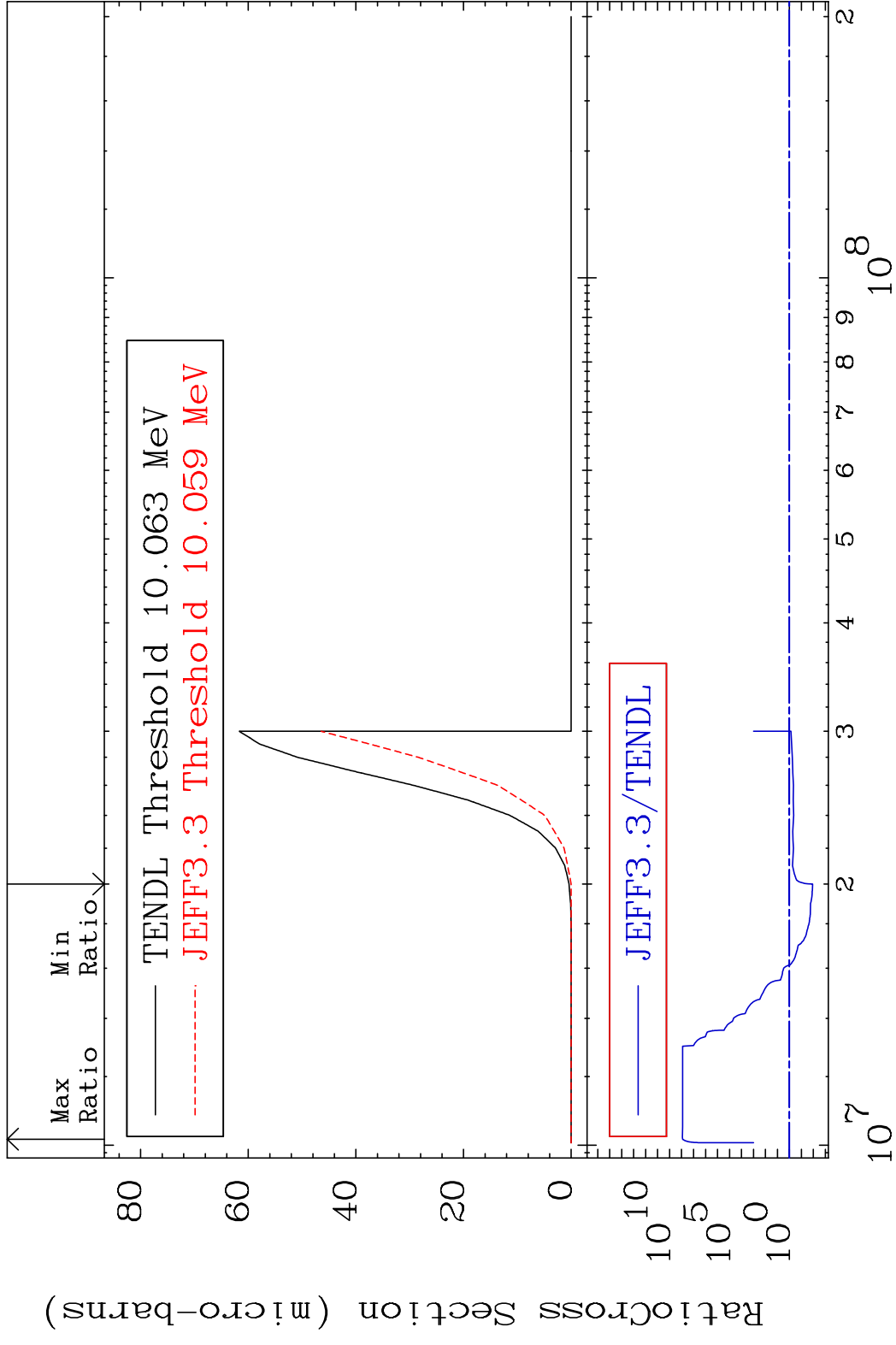
MAT 4525 (n,4n):45-Rh-100g 45-Rh-103  
 Radionuclide Production Cross-Section to 9999. %



MAT 4525 (n, 4n) : 45-Rh-100m4 45-Rh-103  
 Radionuclide Production Cross Section Ratio 26.64 %



MAT 4525 (n,2p):43-Tc-102g 45-Rh-103  
 Radionuclide Production Cross Section (%) 98.641 to 9999. %



79 Incident Energy (eV) 45-Rh-103



