

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

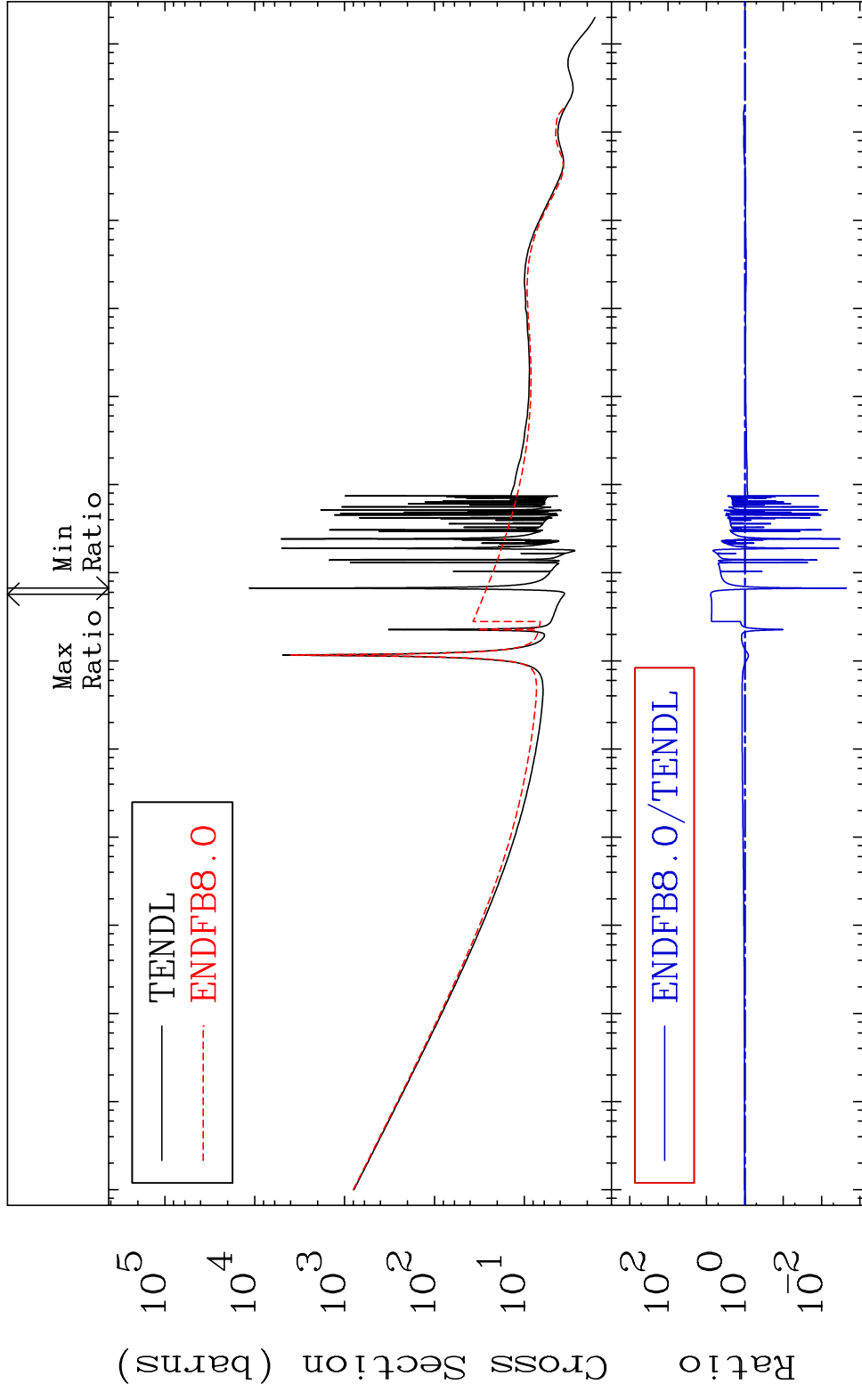
Press Mouse Button to Start

MAT 4128

41-Nb-94

Total

Cross Section -99.777 To 675.9 %



Ratio

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

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

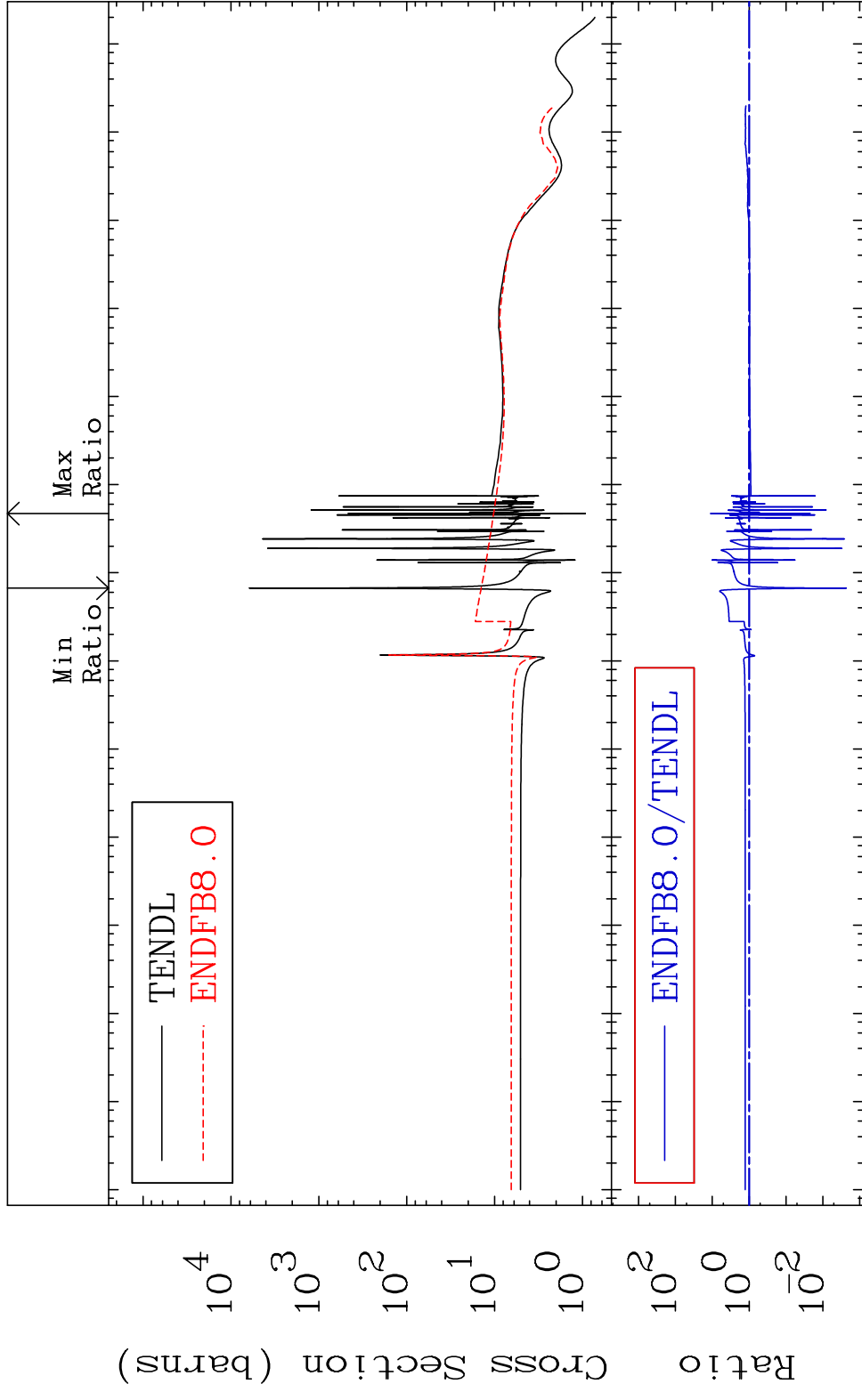
1 Incident Energy (eV) 41-Nb-94

MAT 4128

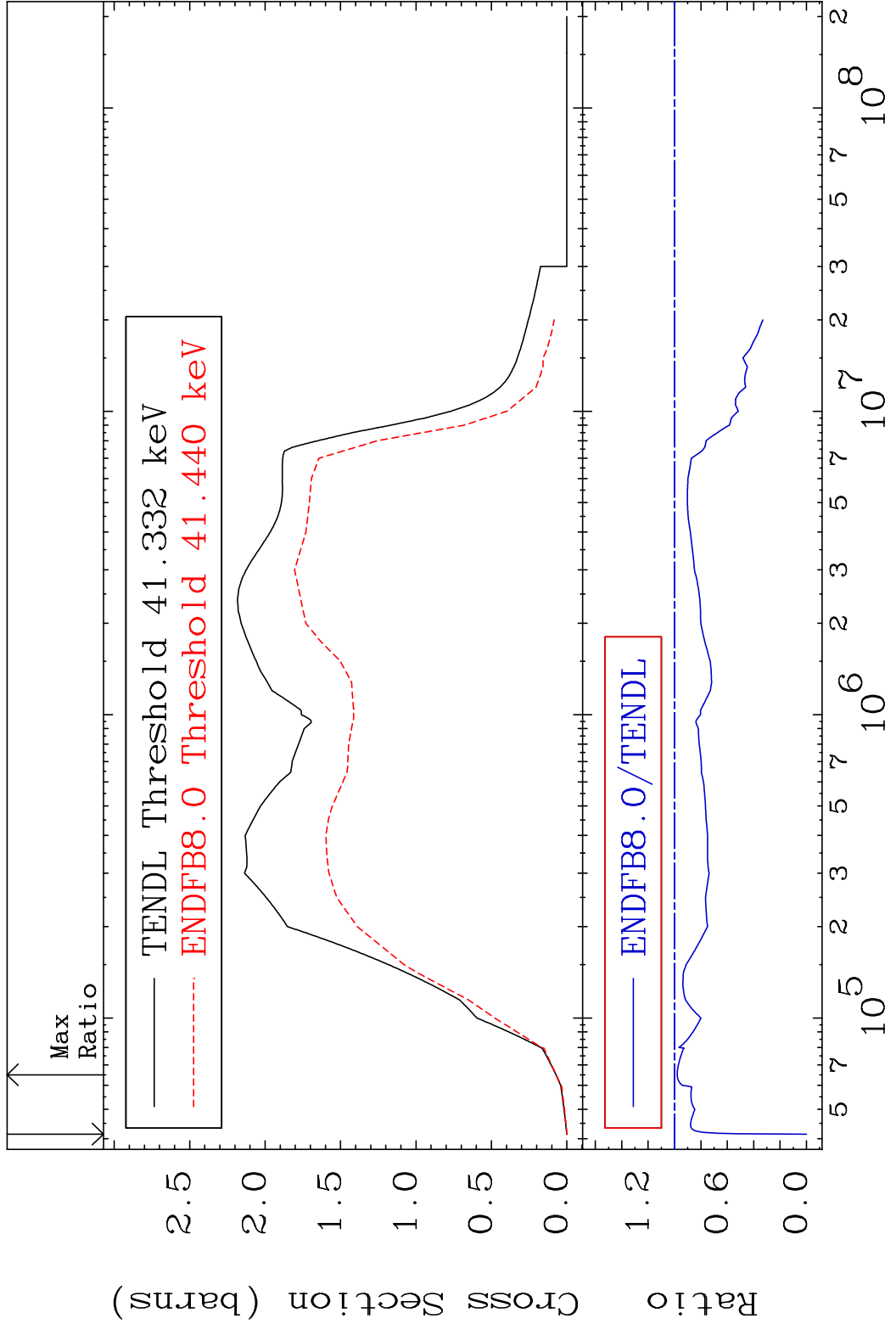
41-Nb-94

Elastic

Cross Section -99.77 To 1003. %



MAT 4128 Inelastic 41-Nb-94
 Cross Section -100.0 To -2.035%

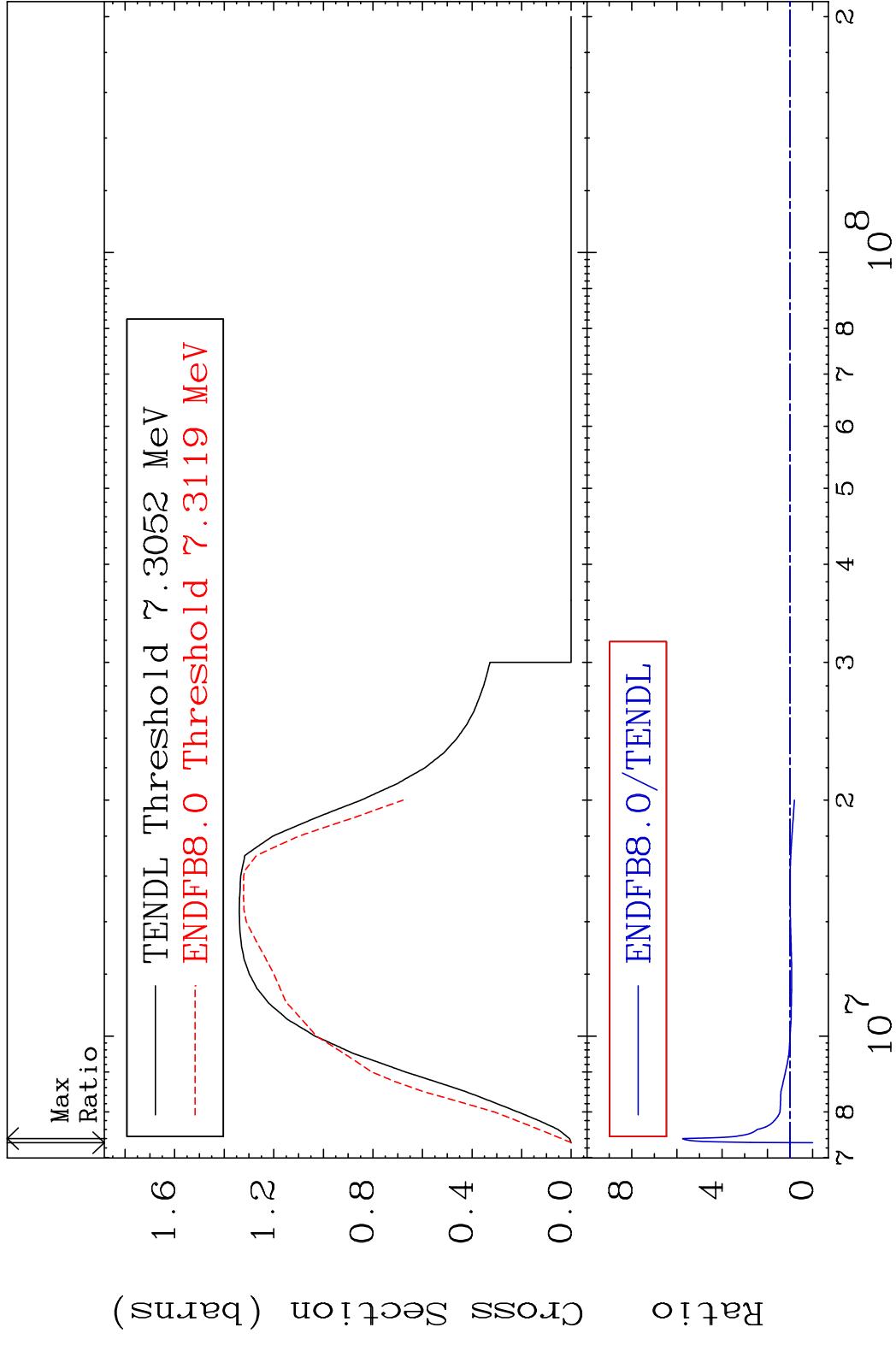


MAT 4128

(n,2n)

41-Nb-94

Cross Section -100.0 To 475.9 %



4

Incident Energy (eV)

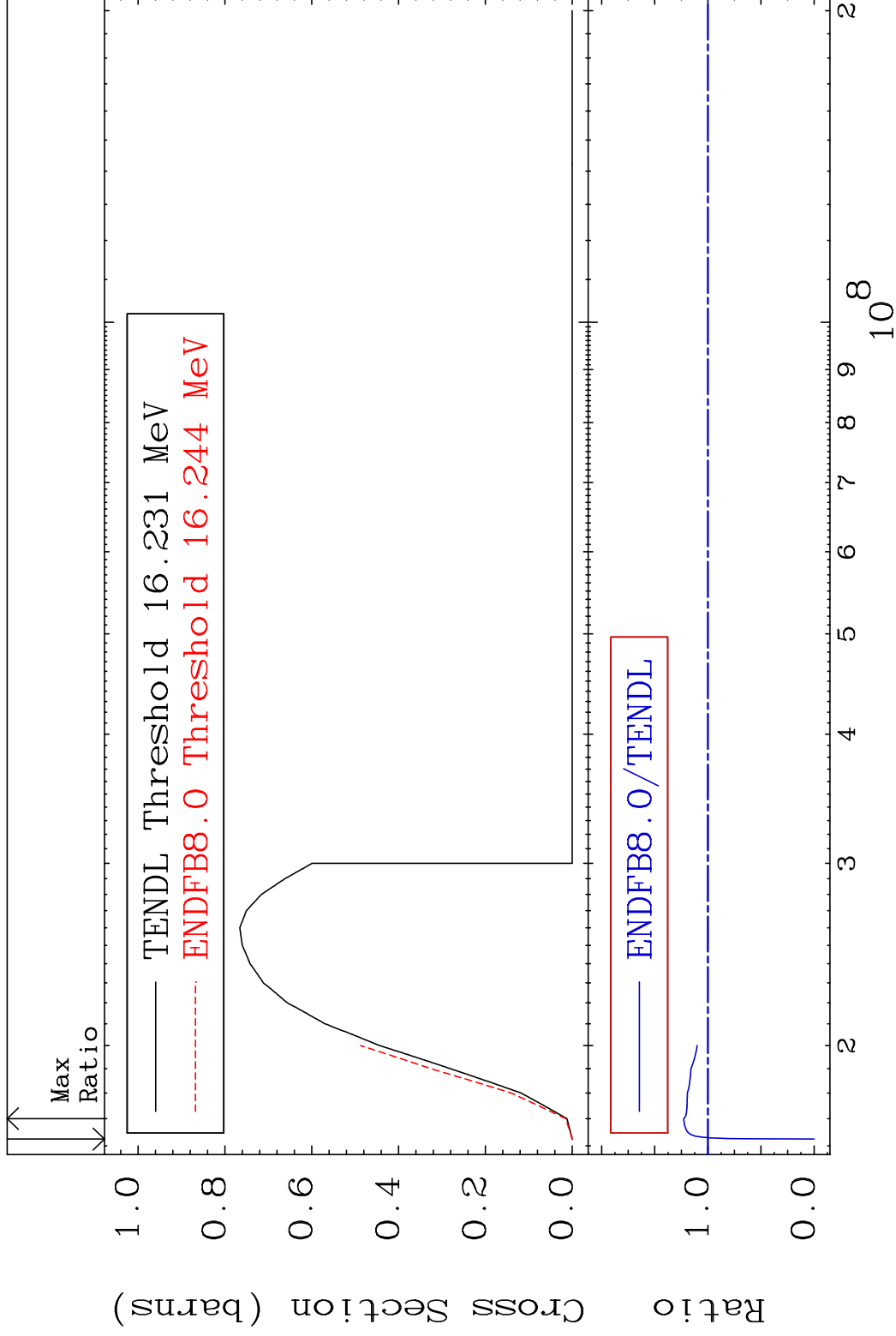
41-Nb-94

MAT 4128

(n,3n)

41-Nb-94

Cross Section -100.0 To 22.82 %



5

Incident Energy (eV)

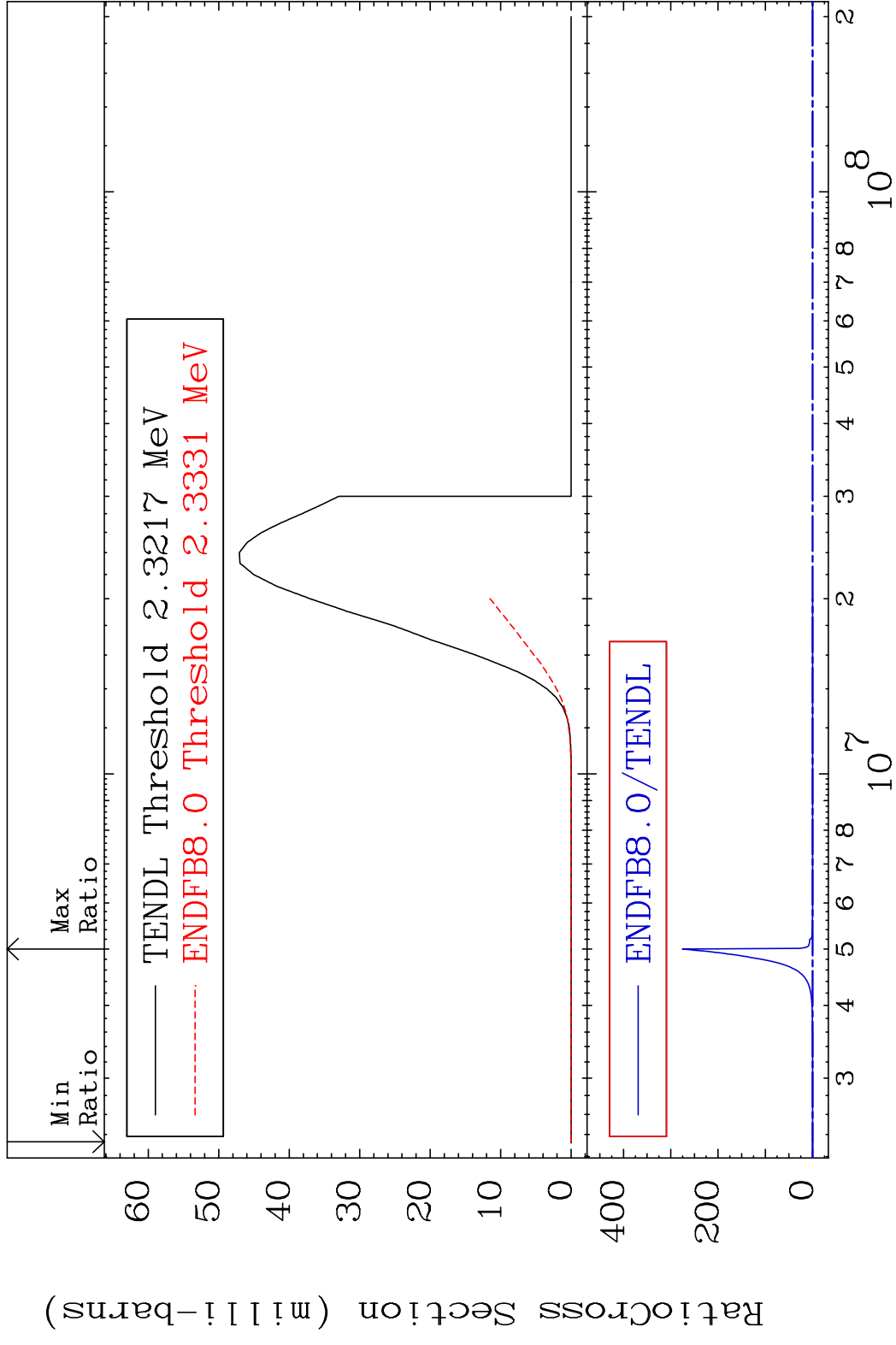
41-Nb-94

MAT 4128

(n, n') α

41-Nb-94

Cross Section -100.0 To 9999. %



6

Incident Energy (eV)

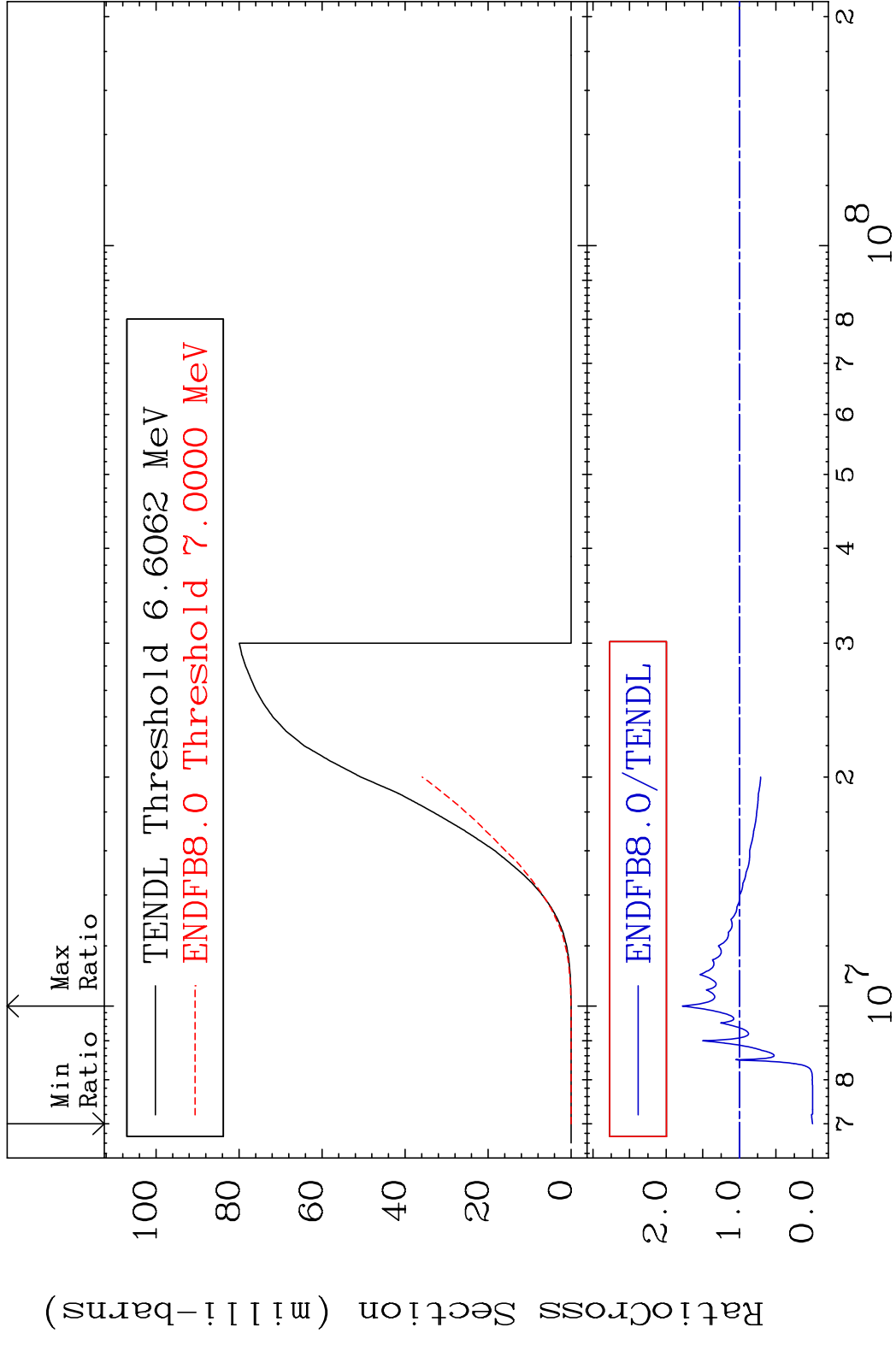
41-Nb-94

MAT 4128

(n, n') p

41-Nb-94

Cross Section -100.0 To 77.88 %



7

Incident Energy (eV)

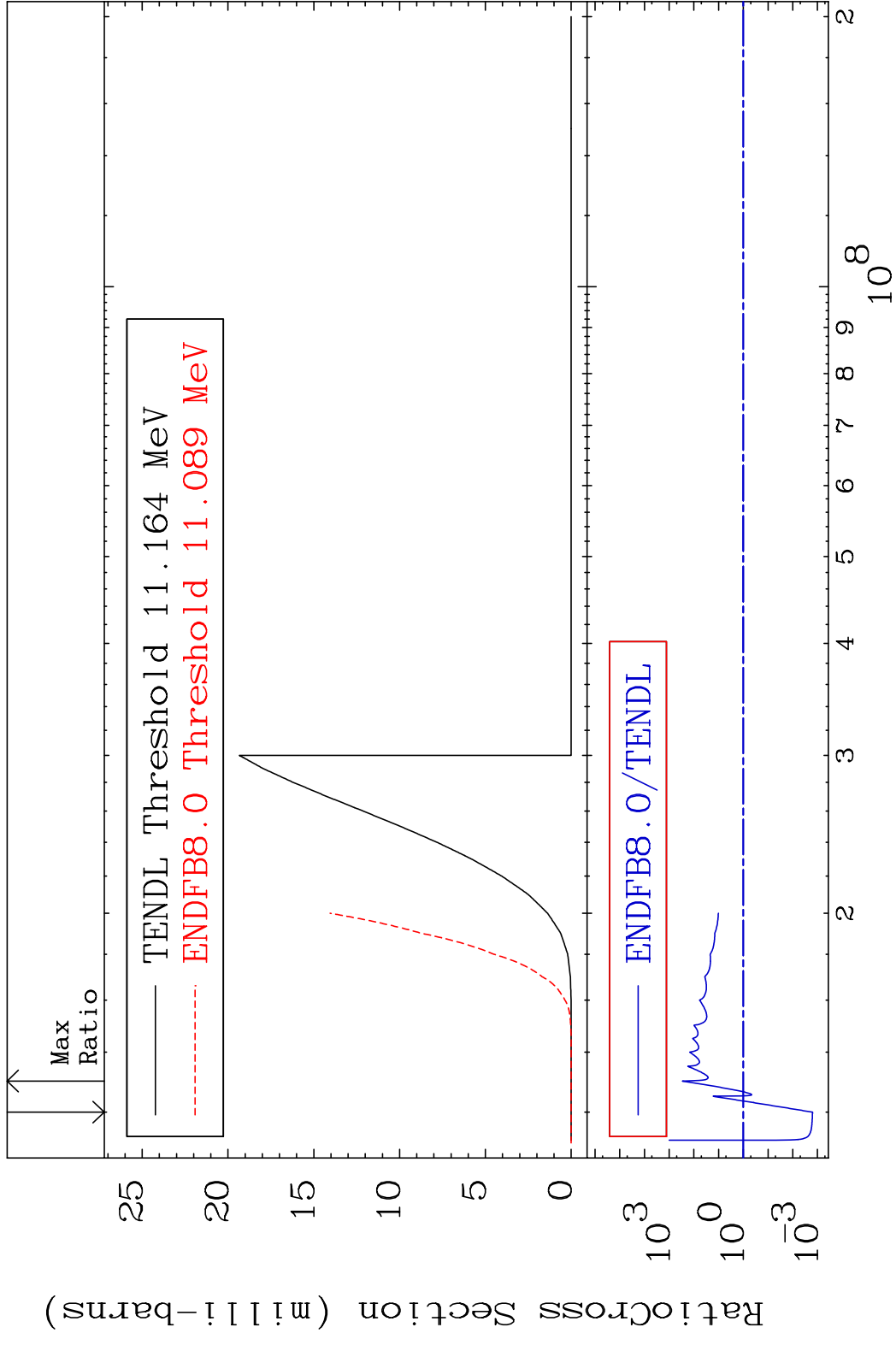
41-Nb-94

MAT 4128

(n, n') d

41-Nb-94

Cross Section -99.84 To 9999. %

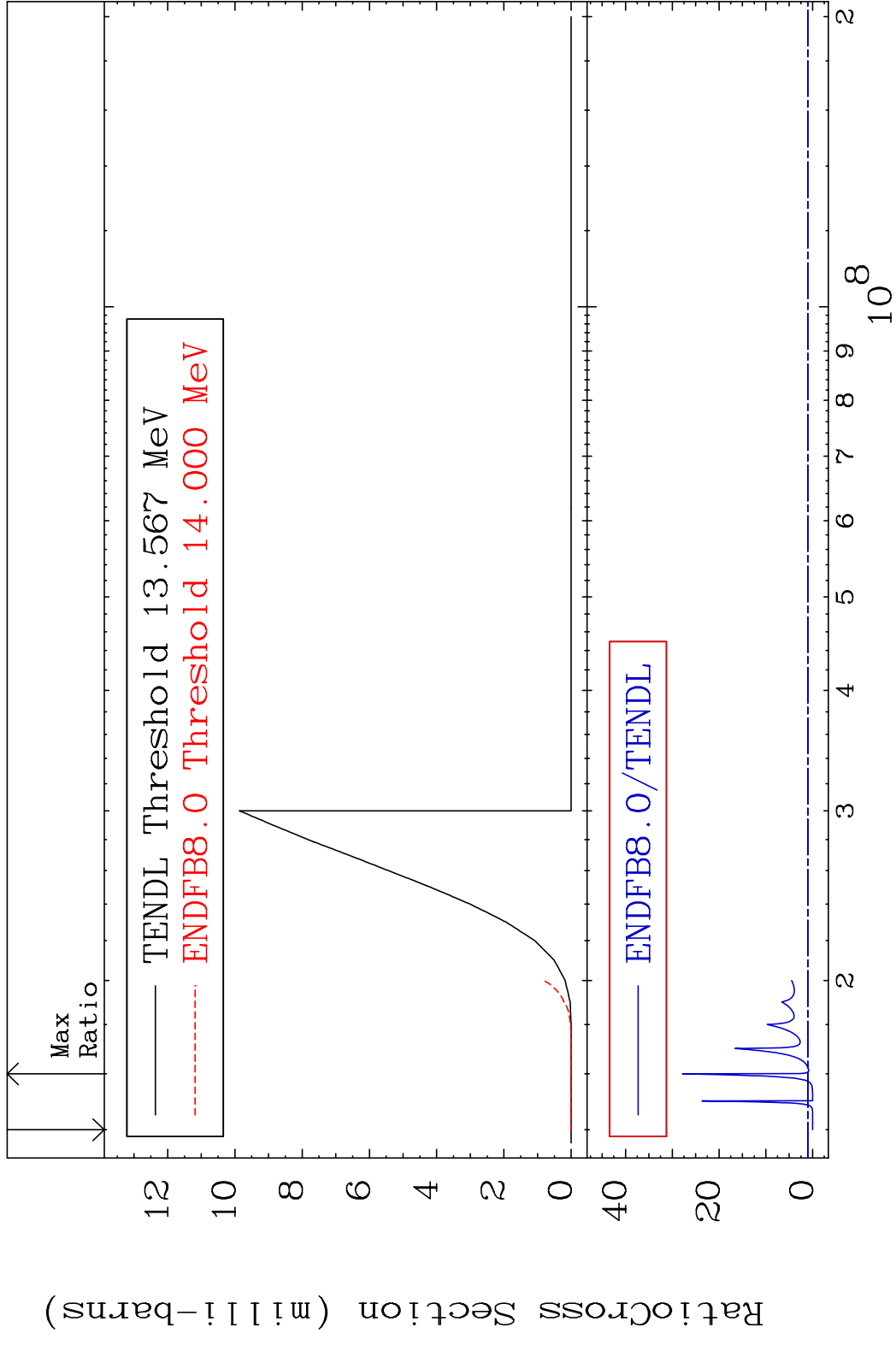


MAT 4128

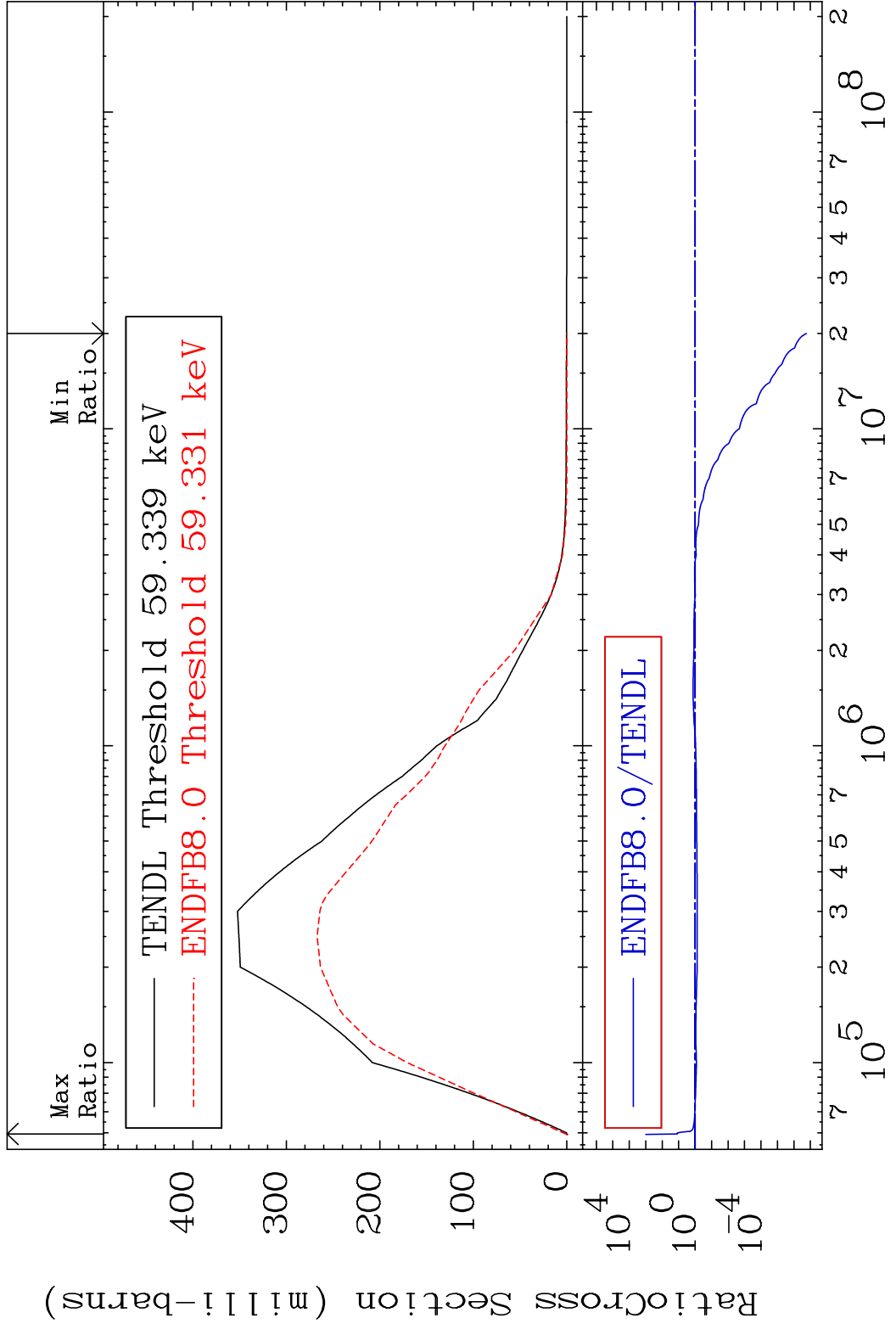
(n, n') t

41-Nb-94

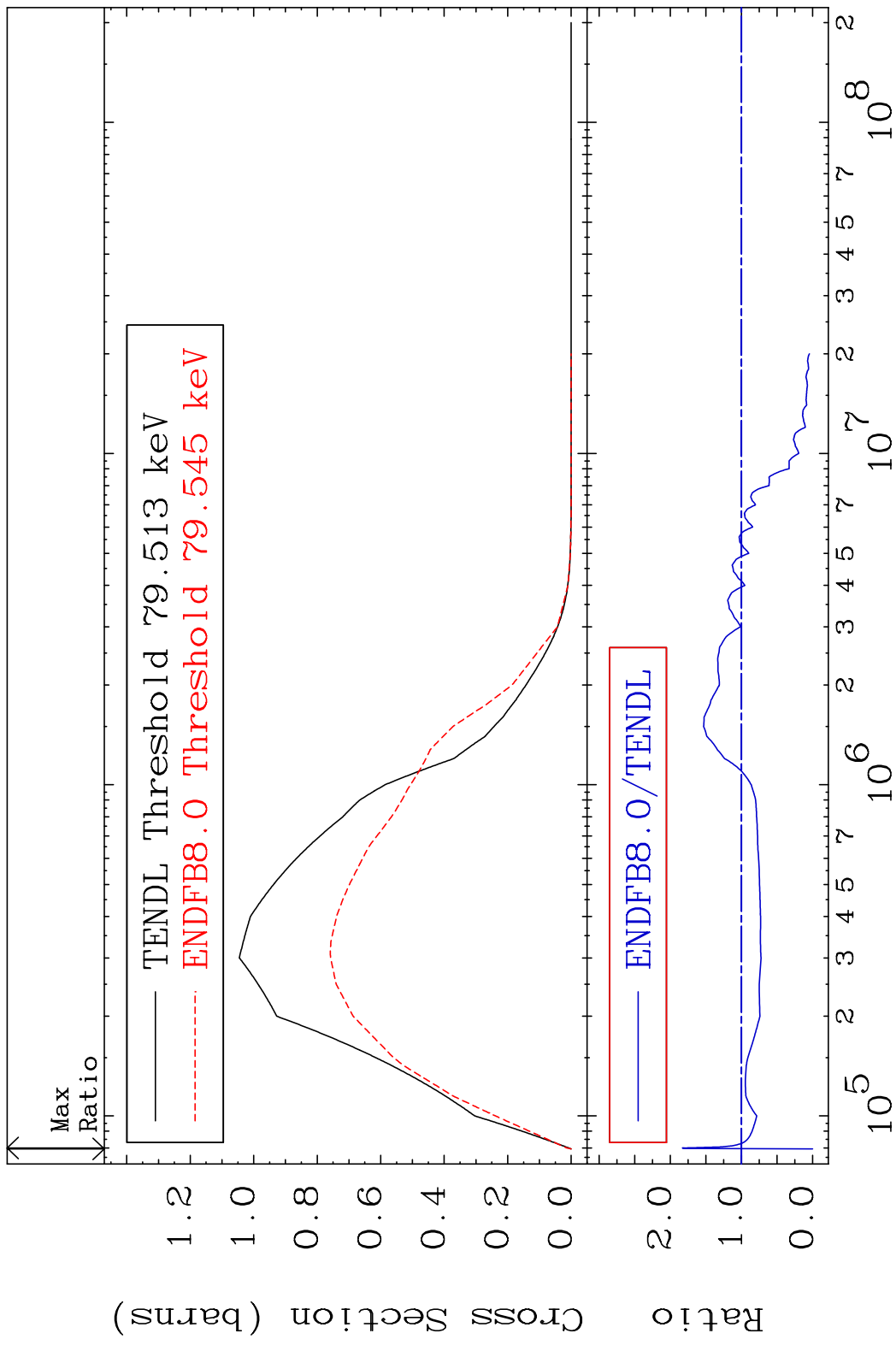
Cross Section -100.0 To 2685. %



MAT 4128 MT= 52 (n,n') Level 41-Nb-94
 Cross Section -100.0 To 1131. %

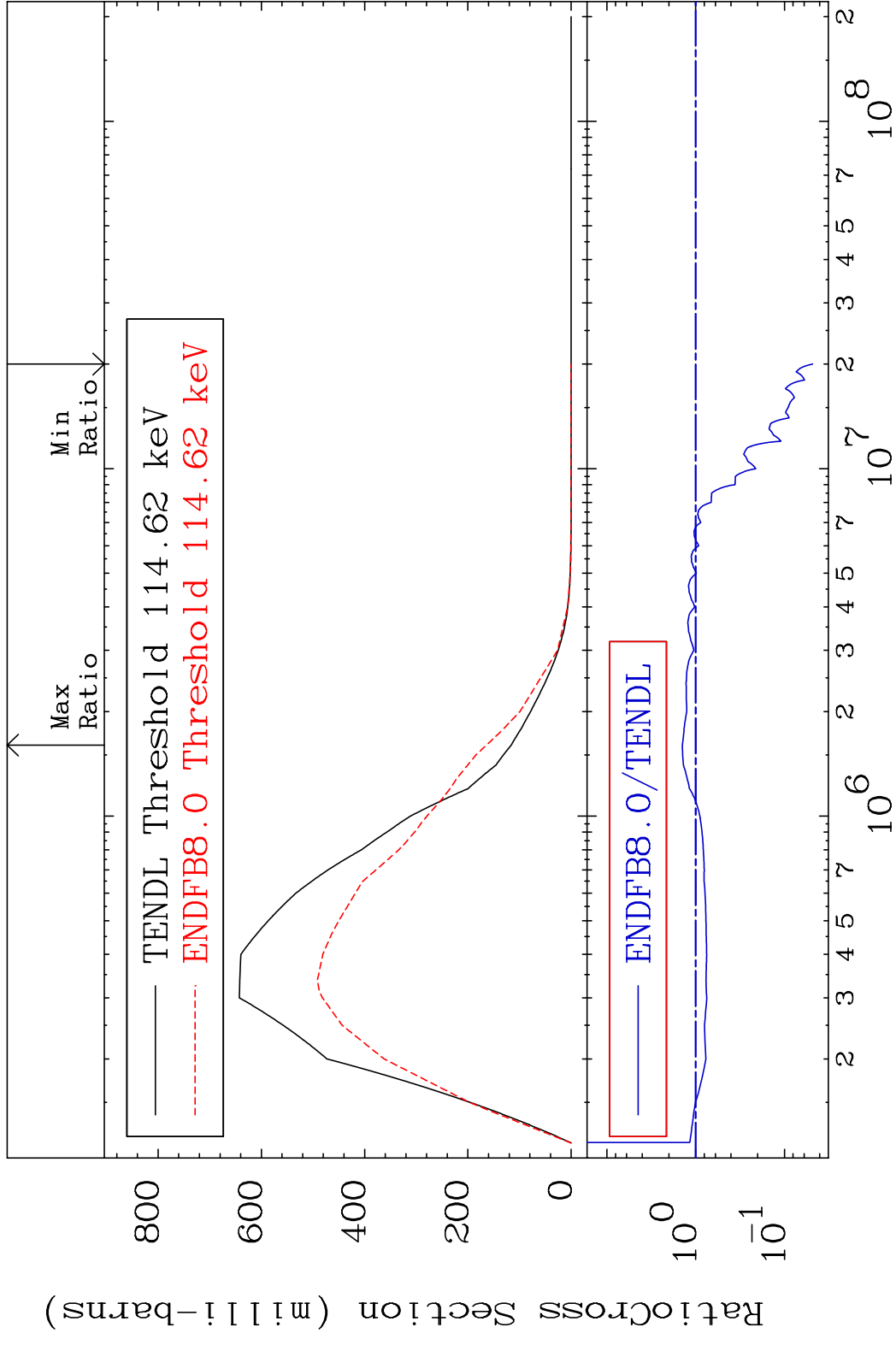


MAT 4128 MT= 53 (n,n') Level 41-Nb-94
 Cross Section -100.0 To 83.09 %

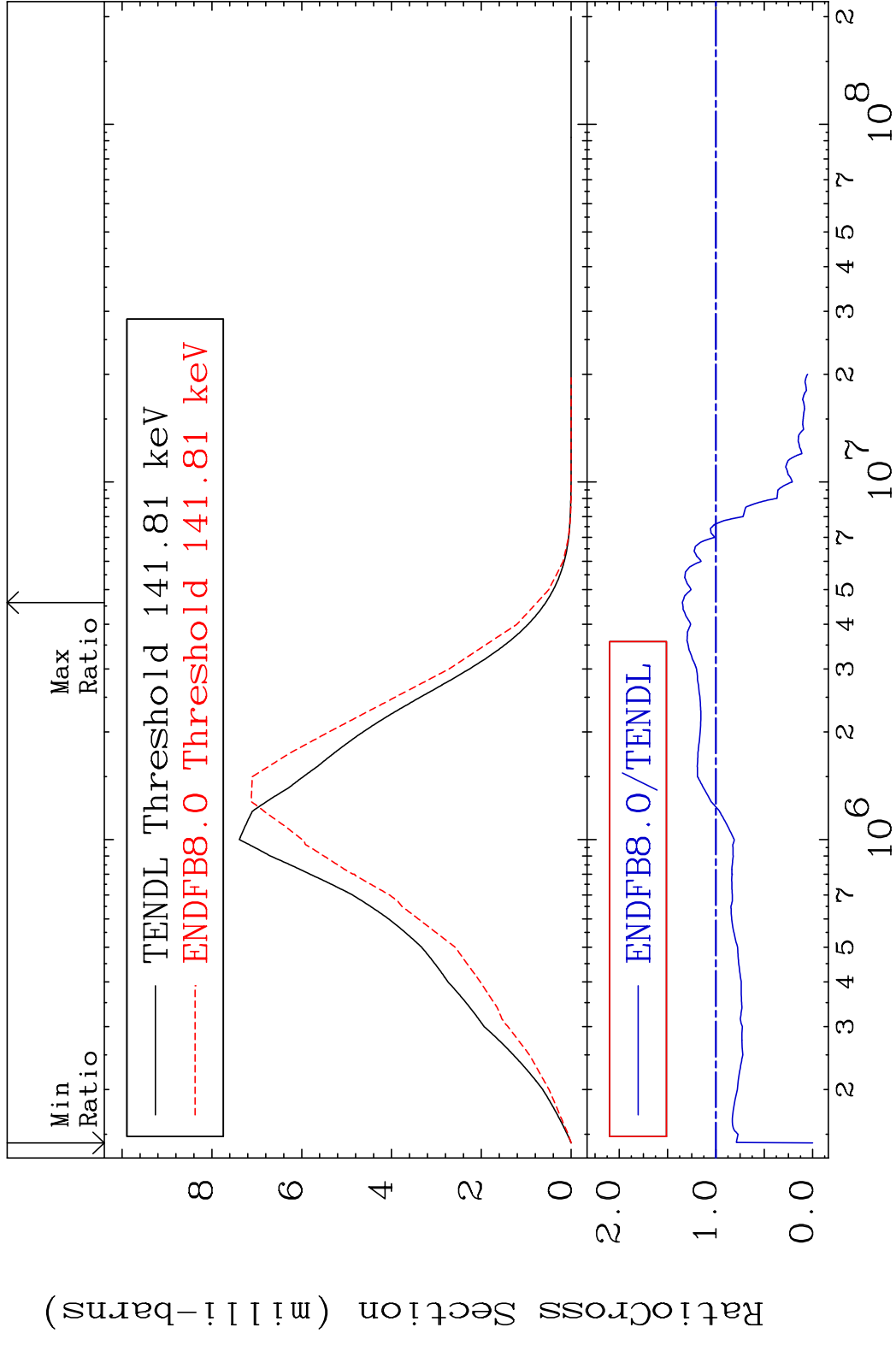


12 Incident Energy (eV) 41-Nb-94

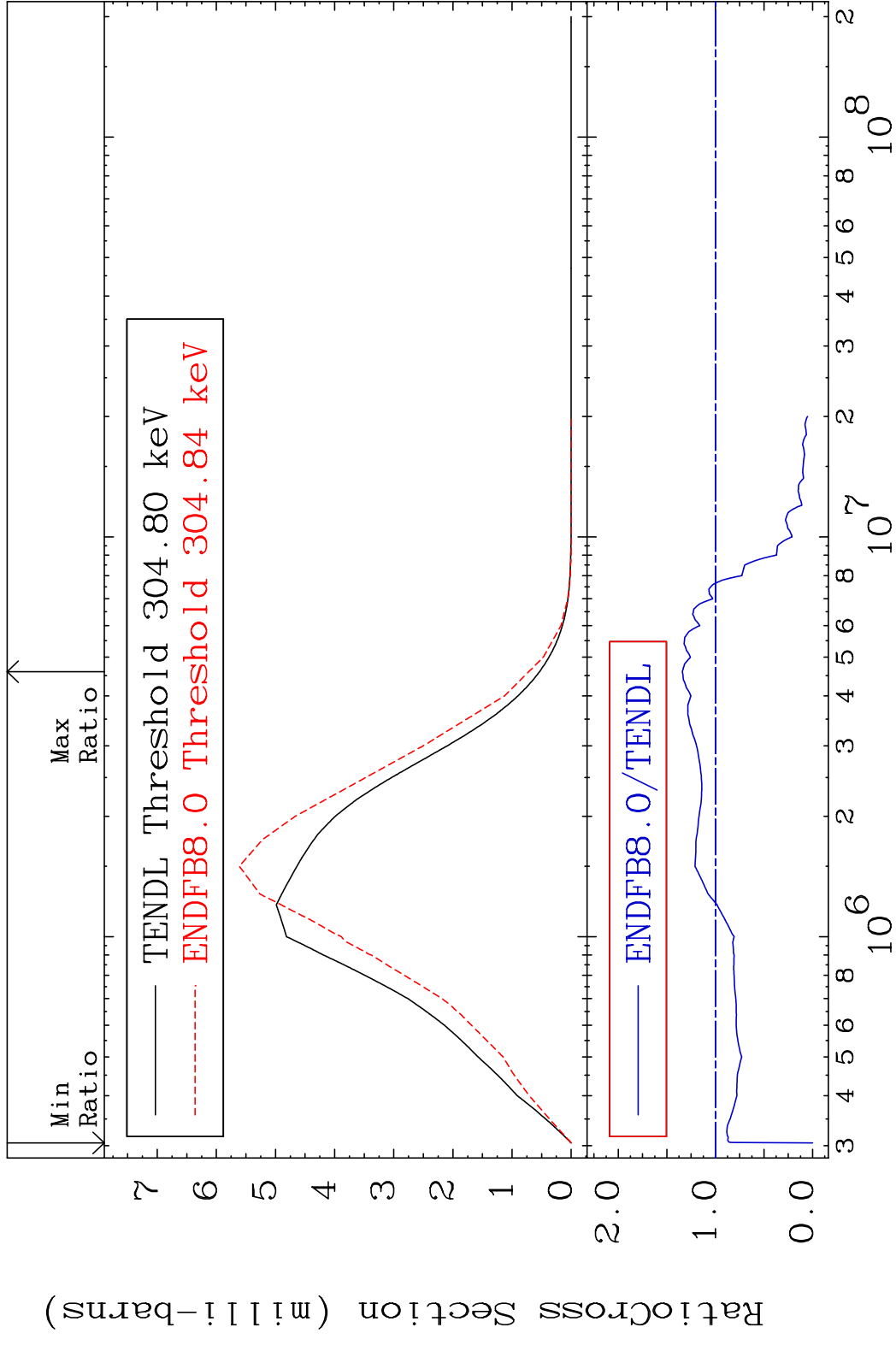
MAT 4128 MT= 54 (n, n') Level 41-Nb-94
 Cross Section -95.18 To 41.35 %



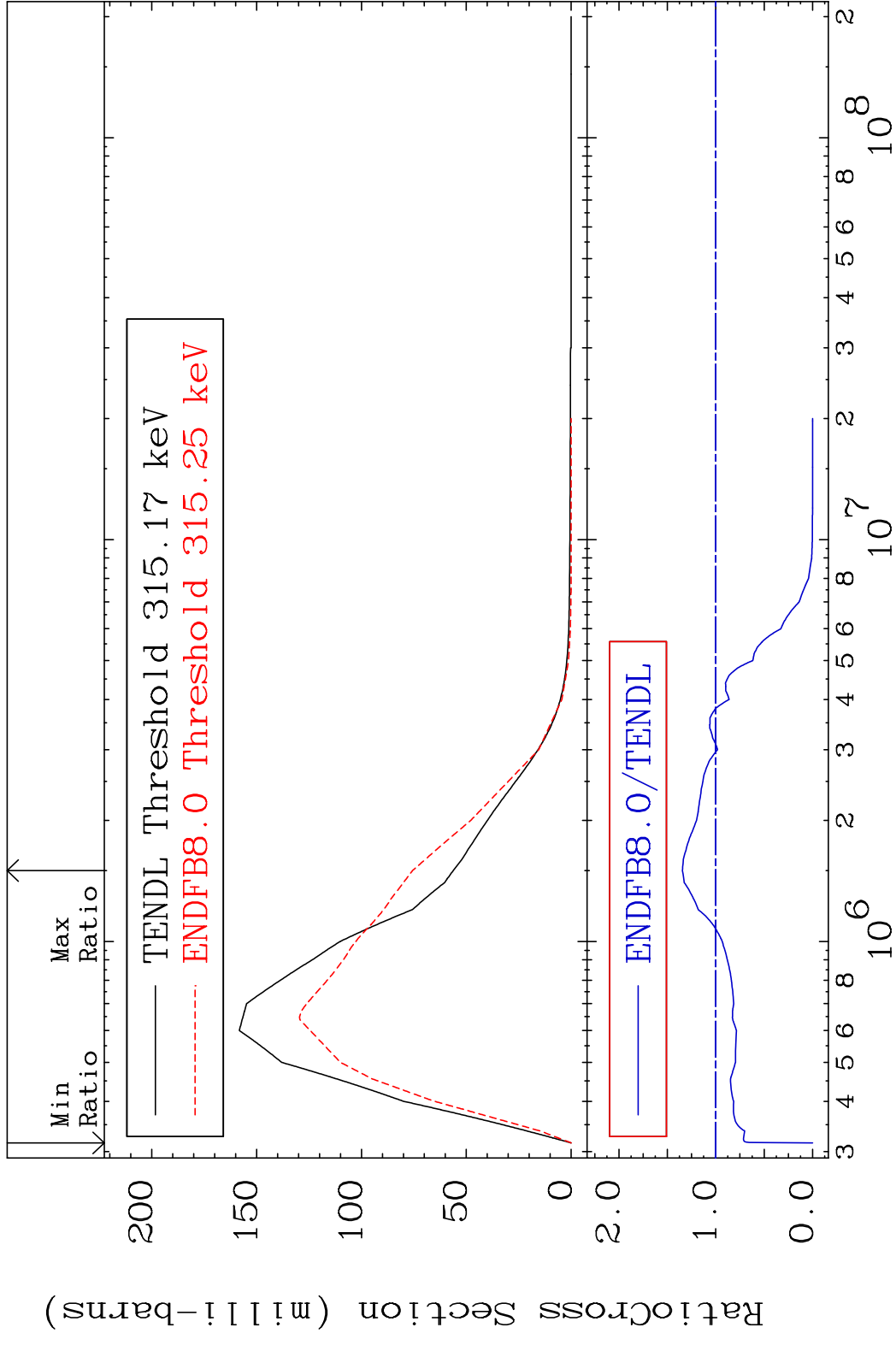
MAT 4128 MT= 55 (n, n') Level 41-Nb-94
 Cross Section -100.0 To 34.75 %



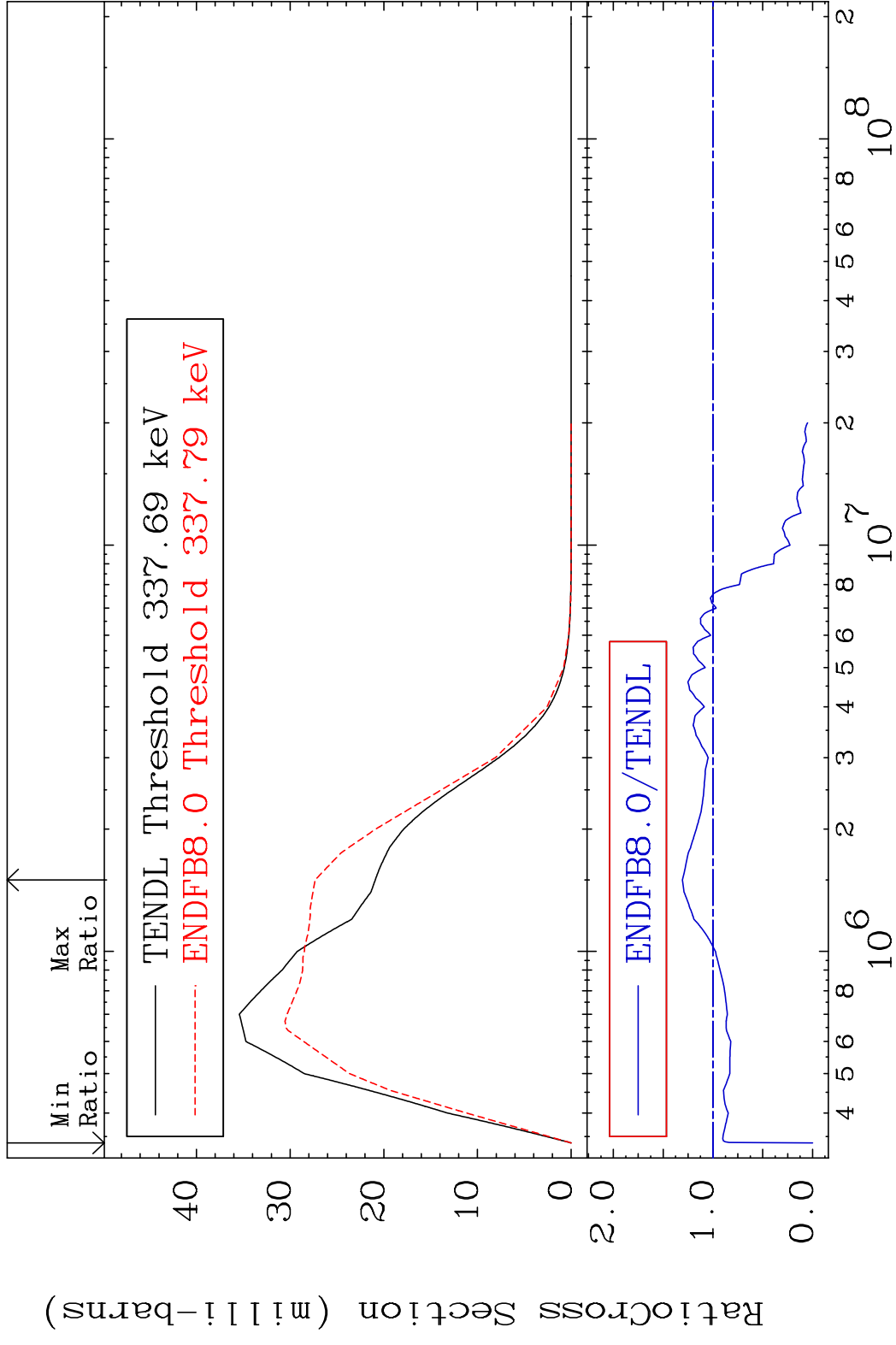
MAT 4128 MT= 56 (n,n') Level 41-Nb-94
 Cross Section -100.0 To 34.02 %



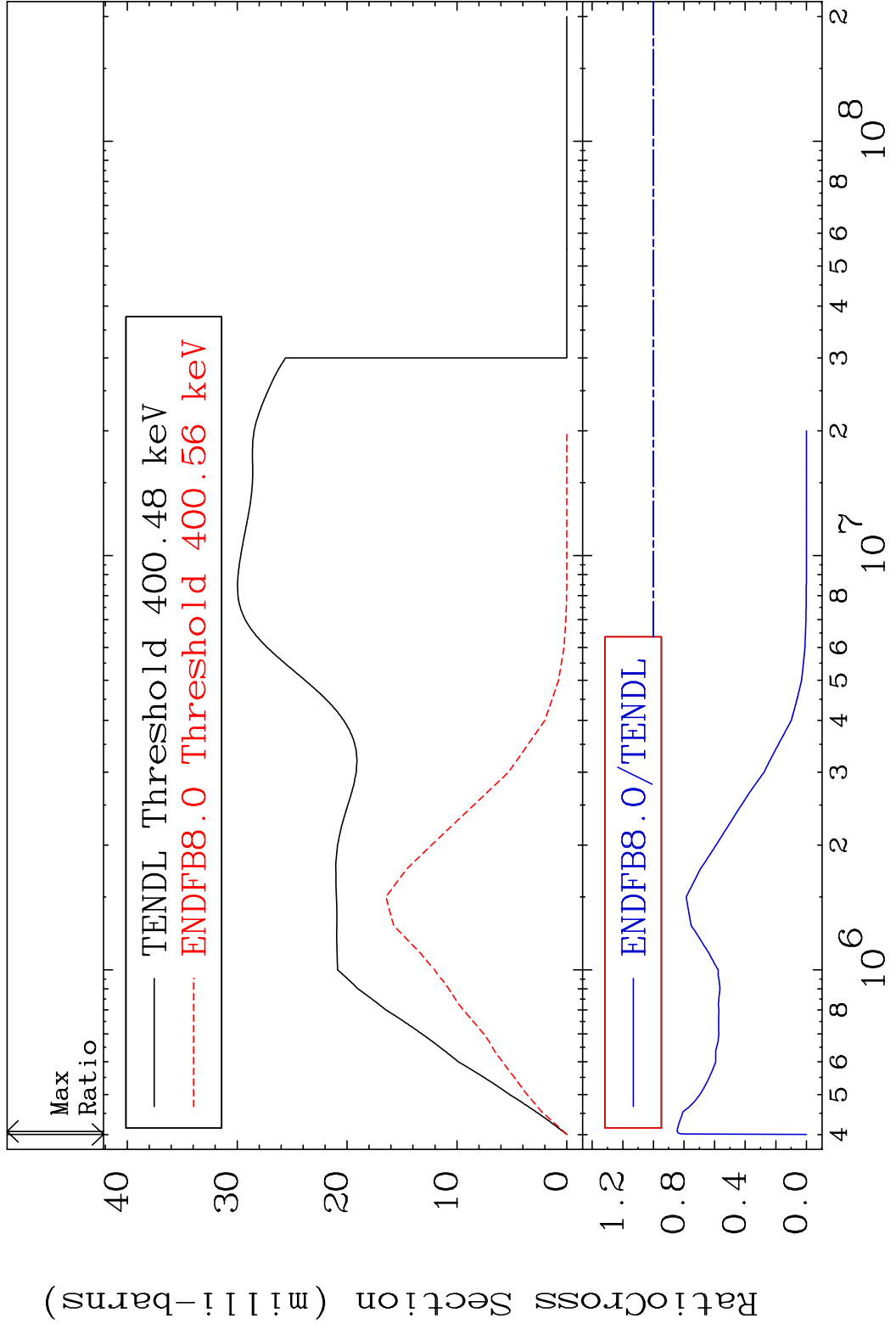
MAT 4128 MT= 57 (n,n') Level 41-Nb-94
 Cross Section -100.0 To 34.52 %



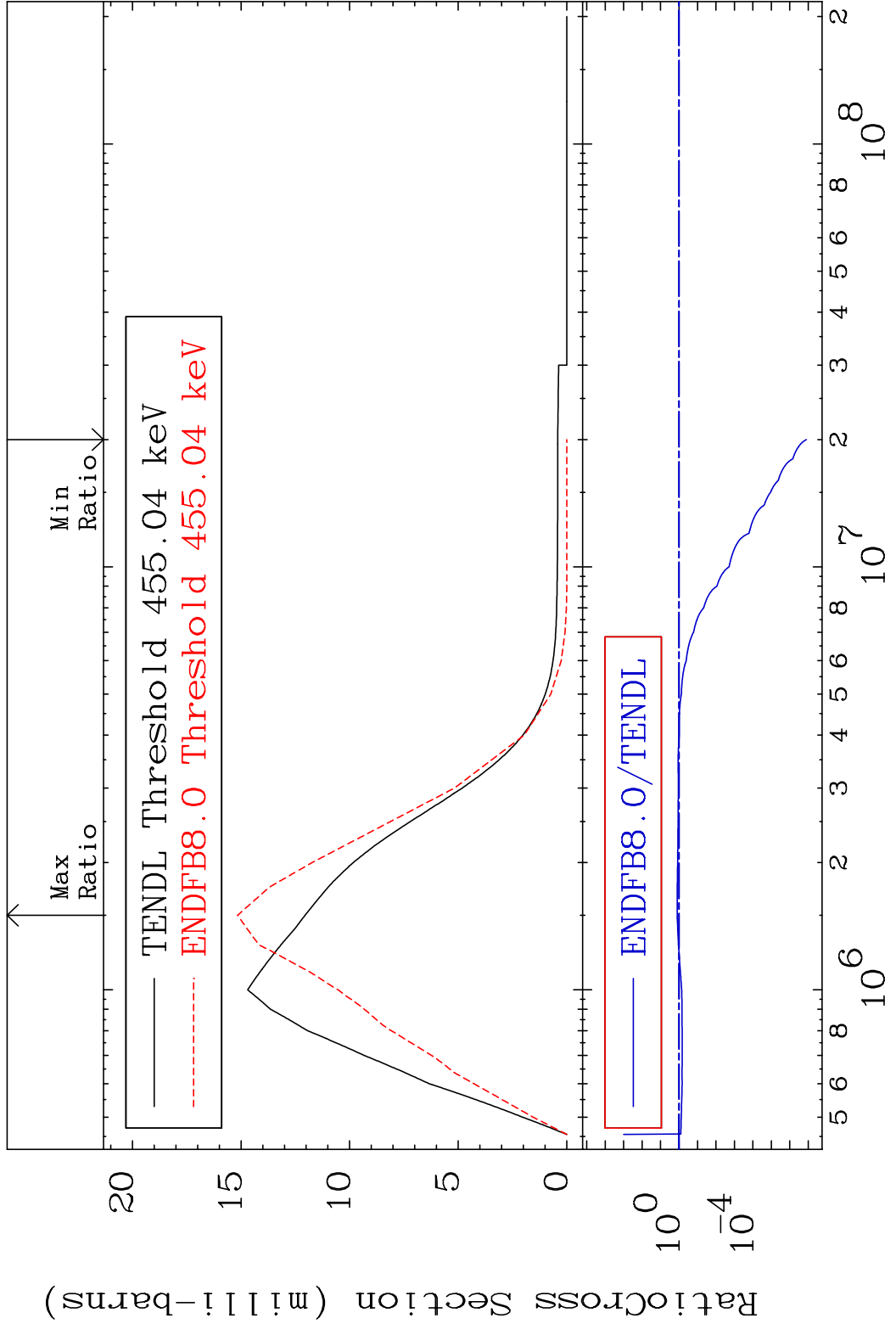
MAT 4128 MT= 58 (n,n') Level 41-Nb-94
 Cross Section -100.0 To 30.71 %



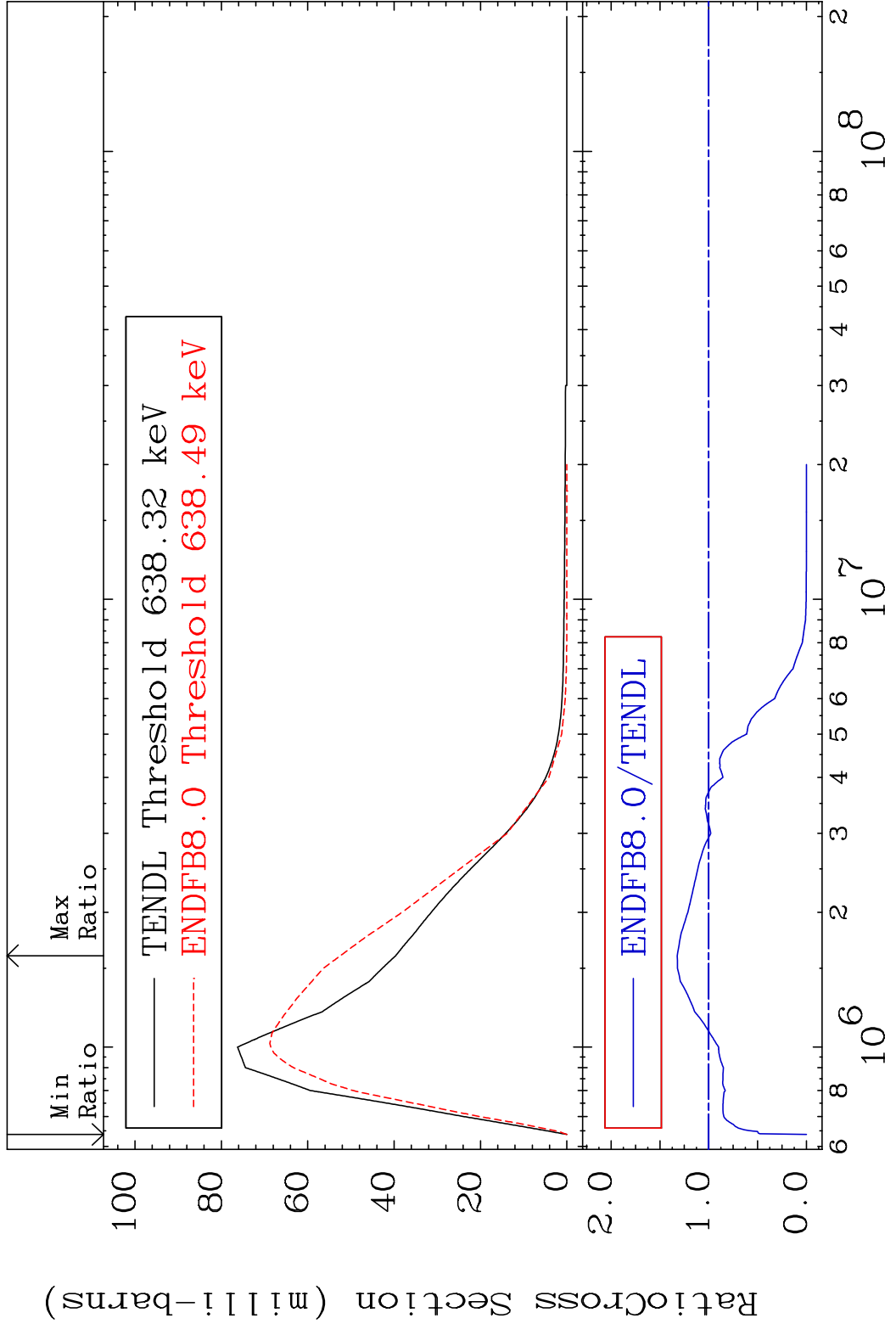
MAT 4128 MT= 59 (n,n') Level 41-Nb-94
 Cross Section -100.0 To -15.55%



MAT 4128 MT= 60 (n, n') Level 41-Nb-94
 Cross Section -100.0 To 25.78 %

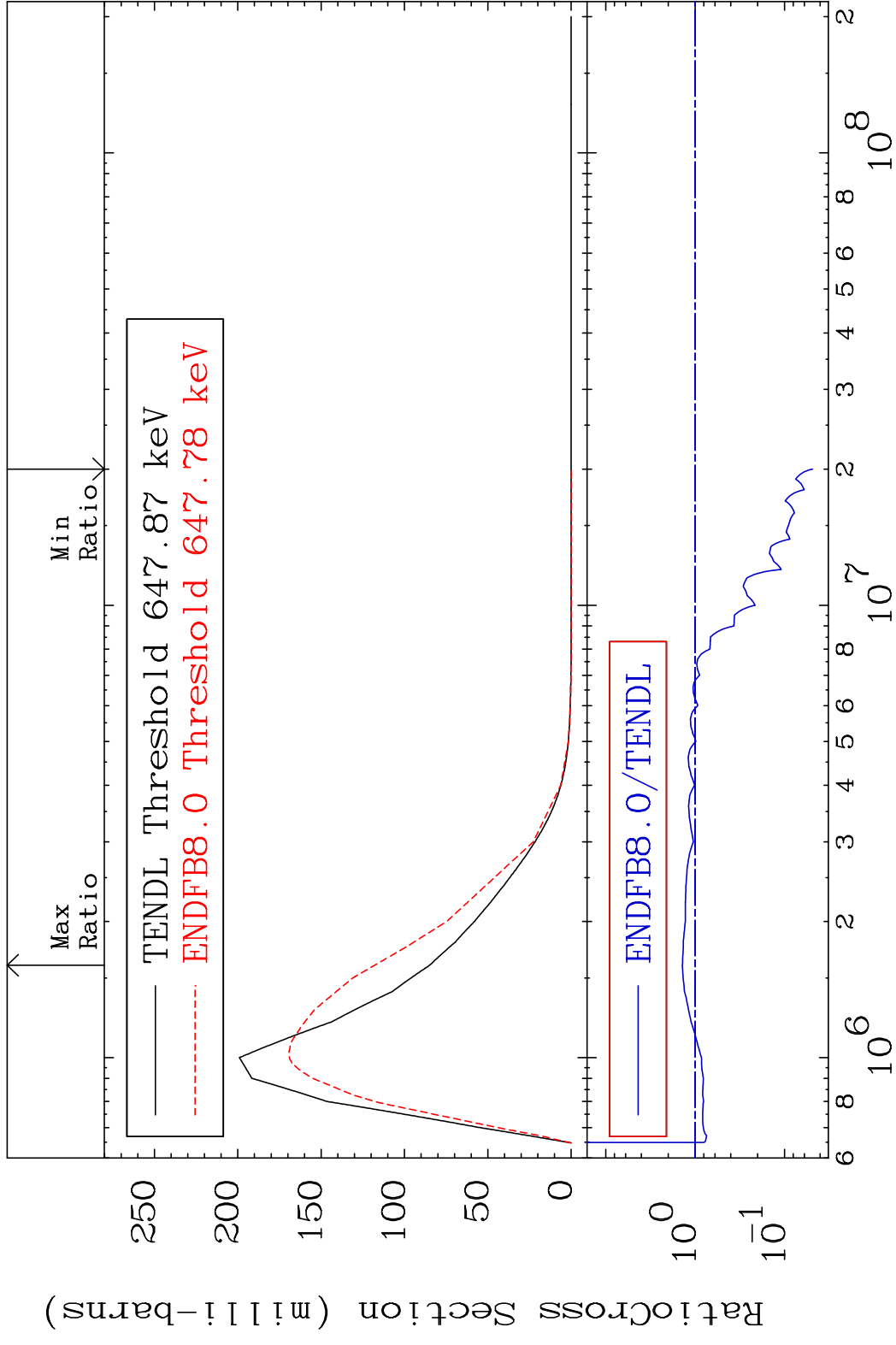


MAT 4128 MT= 61 (n,n') Level 41-Nb-94
 Cross Section -100.0 To 32.32 %

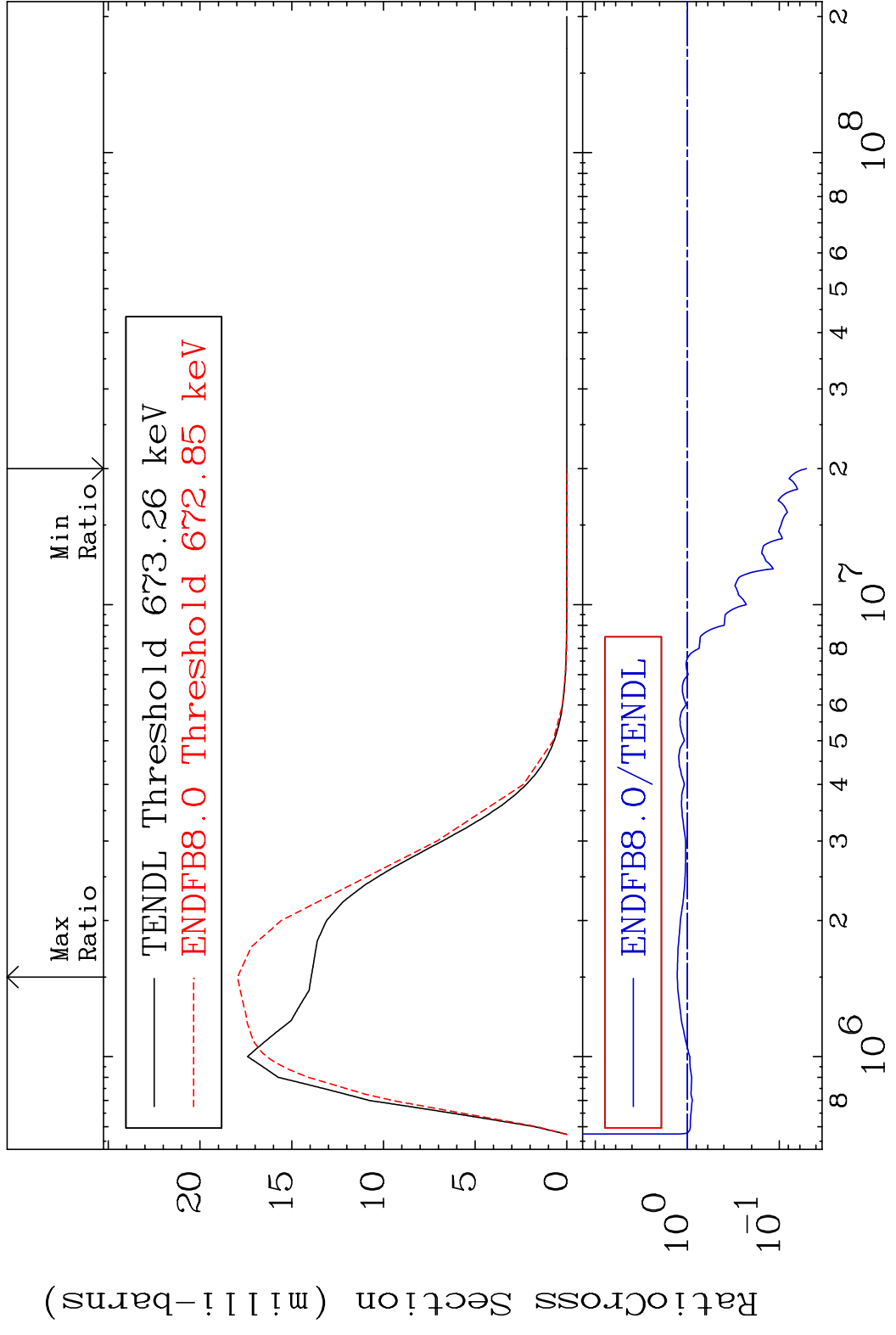


20 Incident Energy (eV) 41-Nb-94

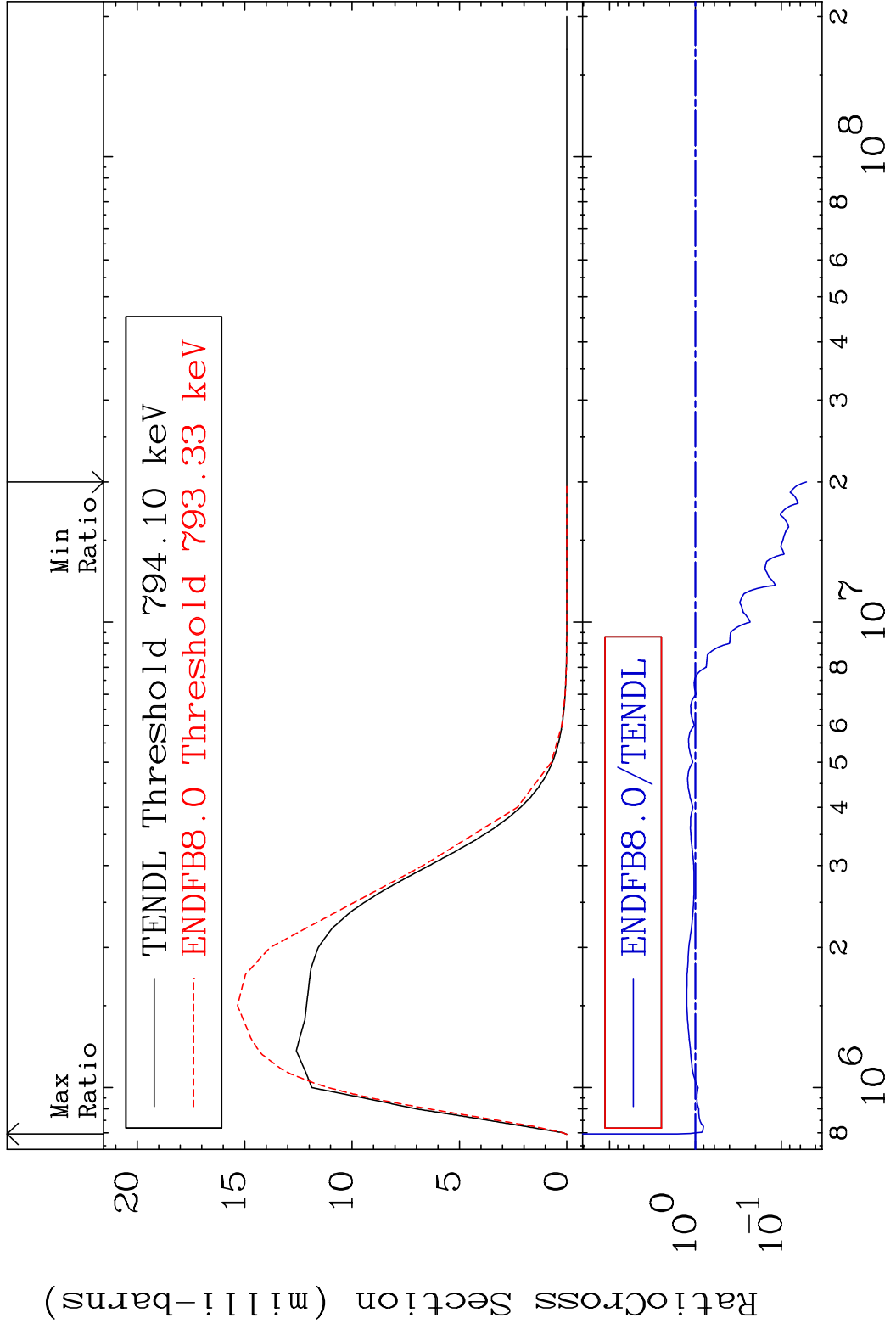
MAT 4128 MT= 62 (n, n') Level 41-Nb-94
 Cross Section -95.13 To 38.90 %



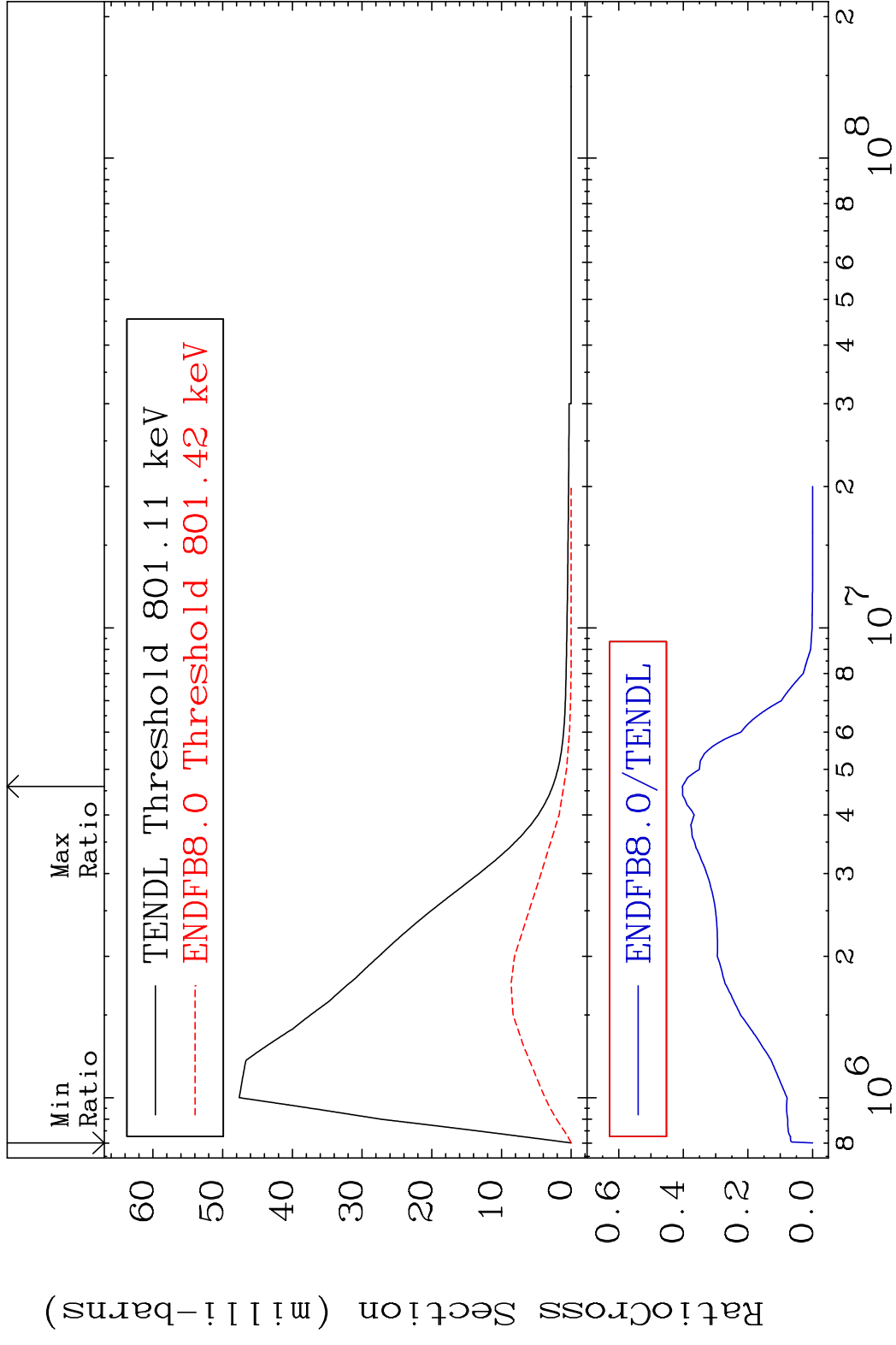
MAT 4128 MT= 63 (n, n') Level 41-Nb-94
 Cross Section -94.91 To 28.83 %



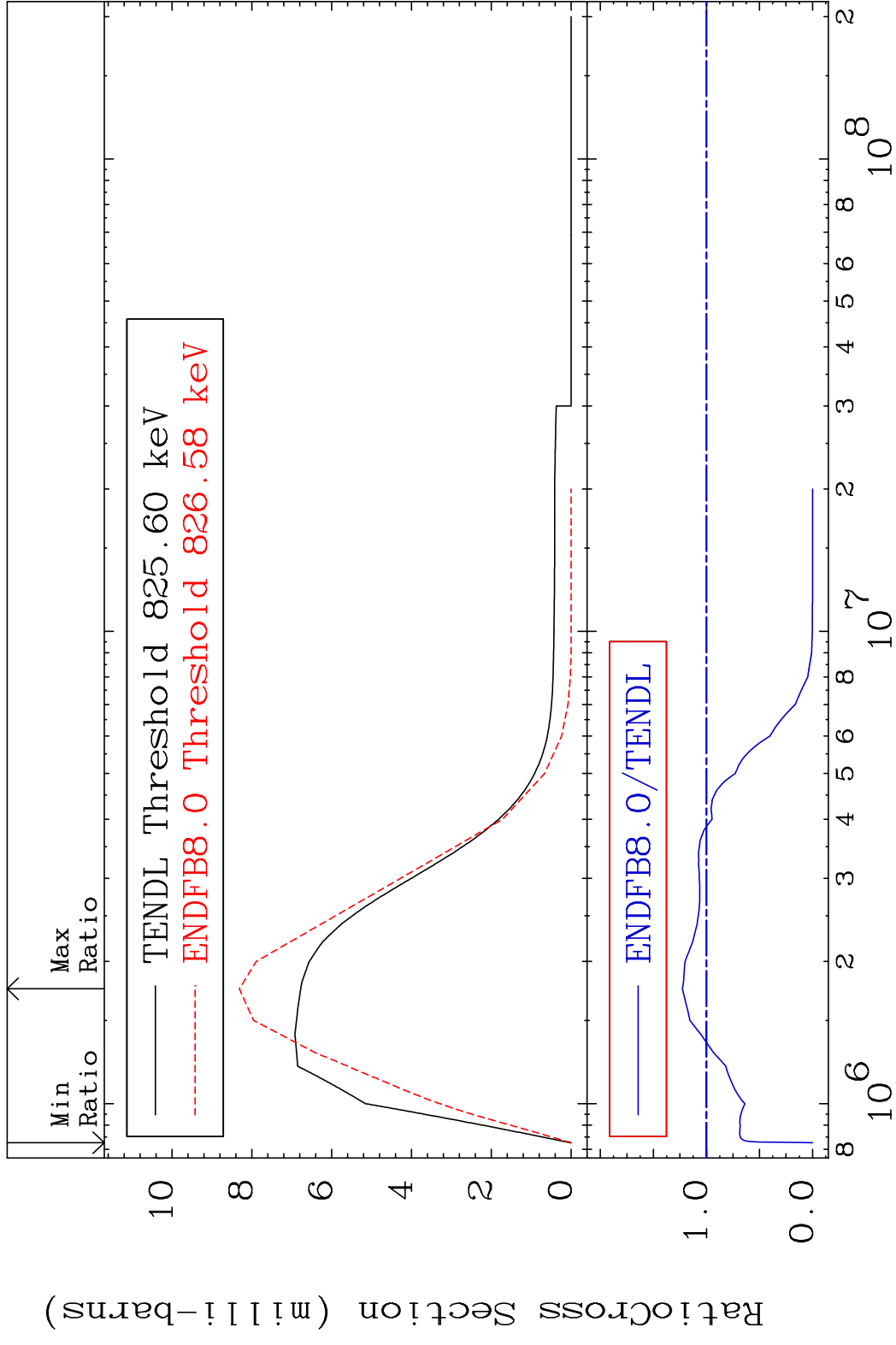
MAT 4128 MT= 64 (n, n') Level 41-Nb-94
 Cross Section -94.90 To 62.84 %



MAT 4128 MT= 65 (n, n') Level 41-Nb-94
 Cross Section -100.0 To -59.71%

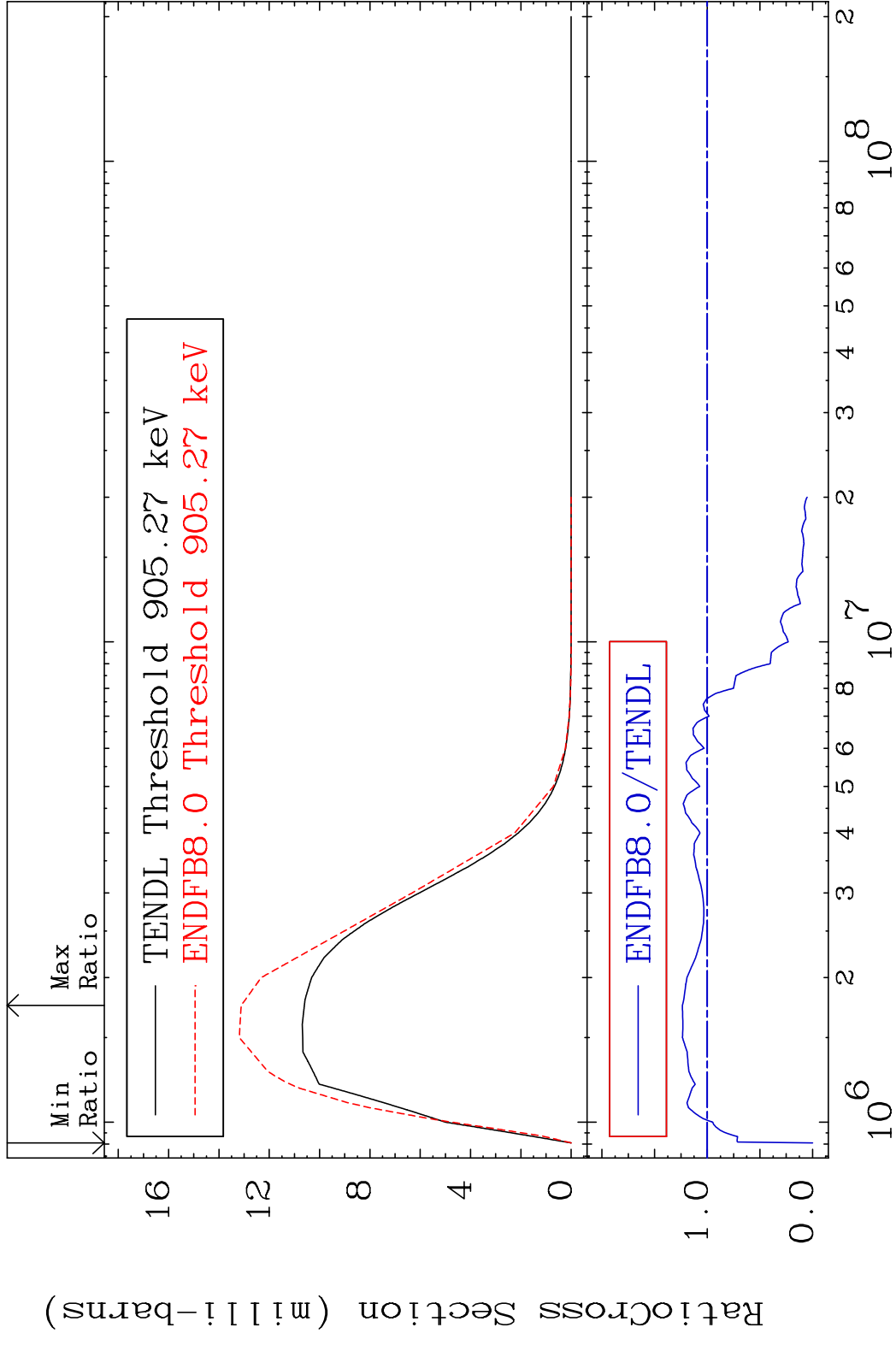


MAT 4128 MT= 66 (n, n') Level 41-Nb-94
 Cross Section -100.0 To 22.71 %



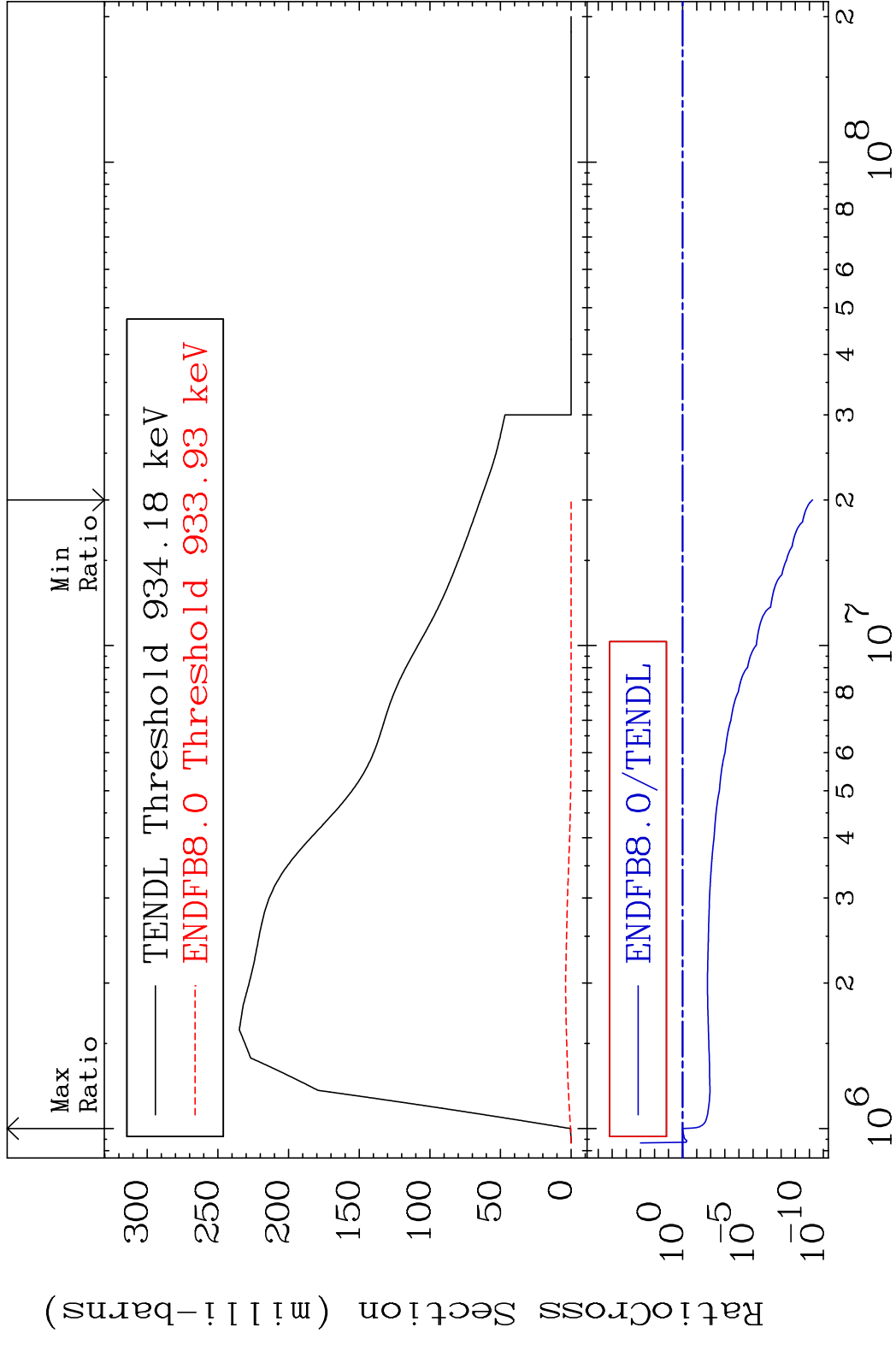
25 Incident Energy (eV) 41-Nb-94

MAT 4128 MT= 67 (n,n') Level 41-Nb-94
 Cross Section -100.0 To 23.67 %



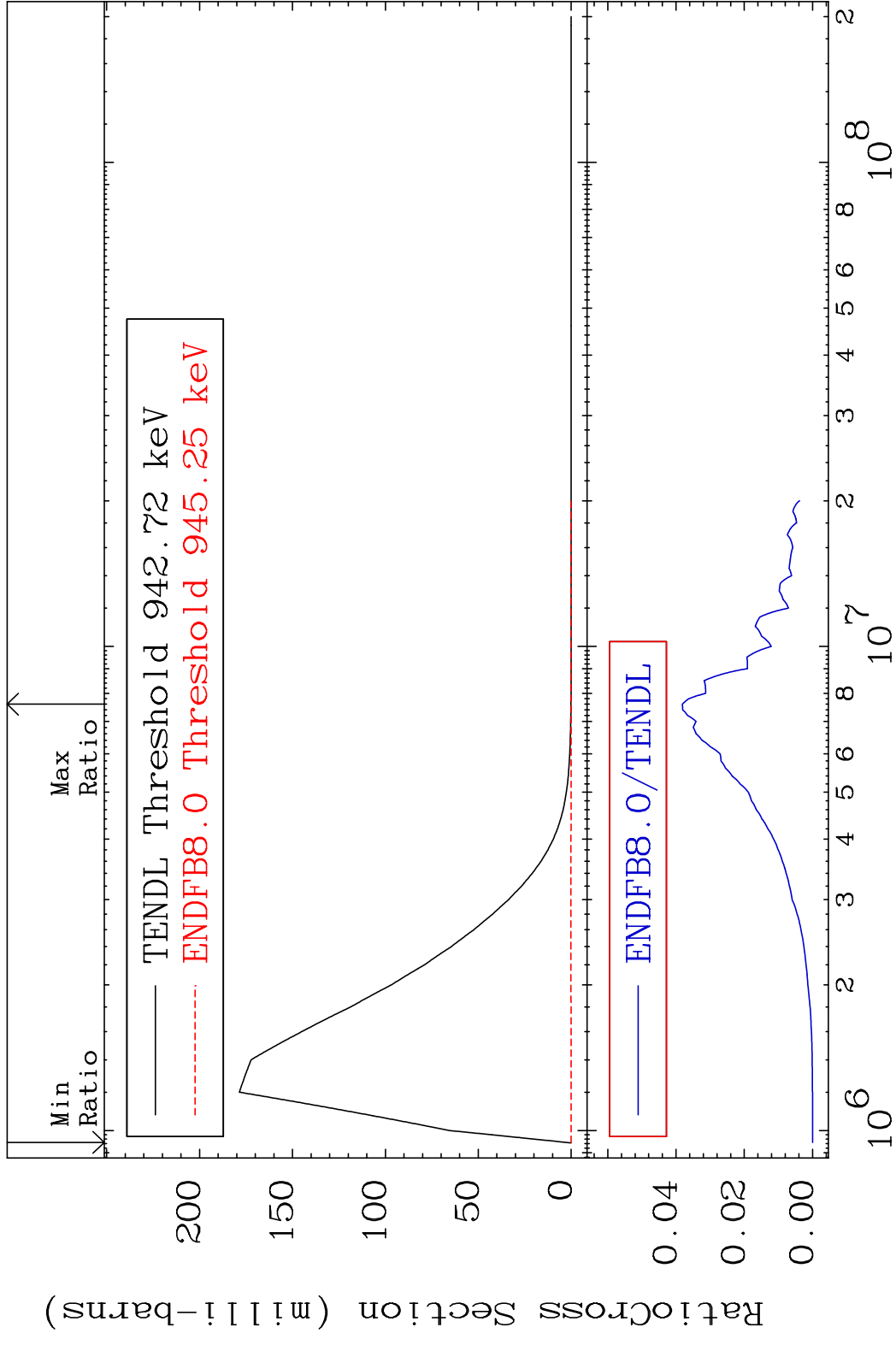
26 Incident Energy (eV) 41-Nb-94

MAT 4128 MT= 68 (n, n') Level 41-Nb-94
 Cross Section -100.0 To 4.549 %



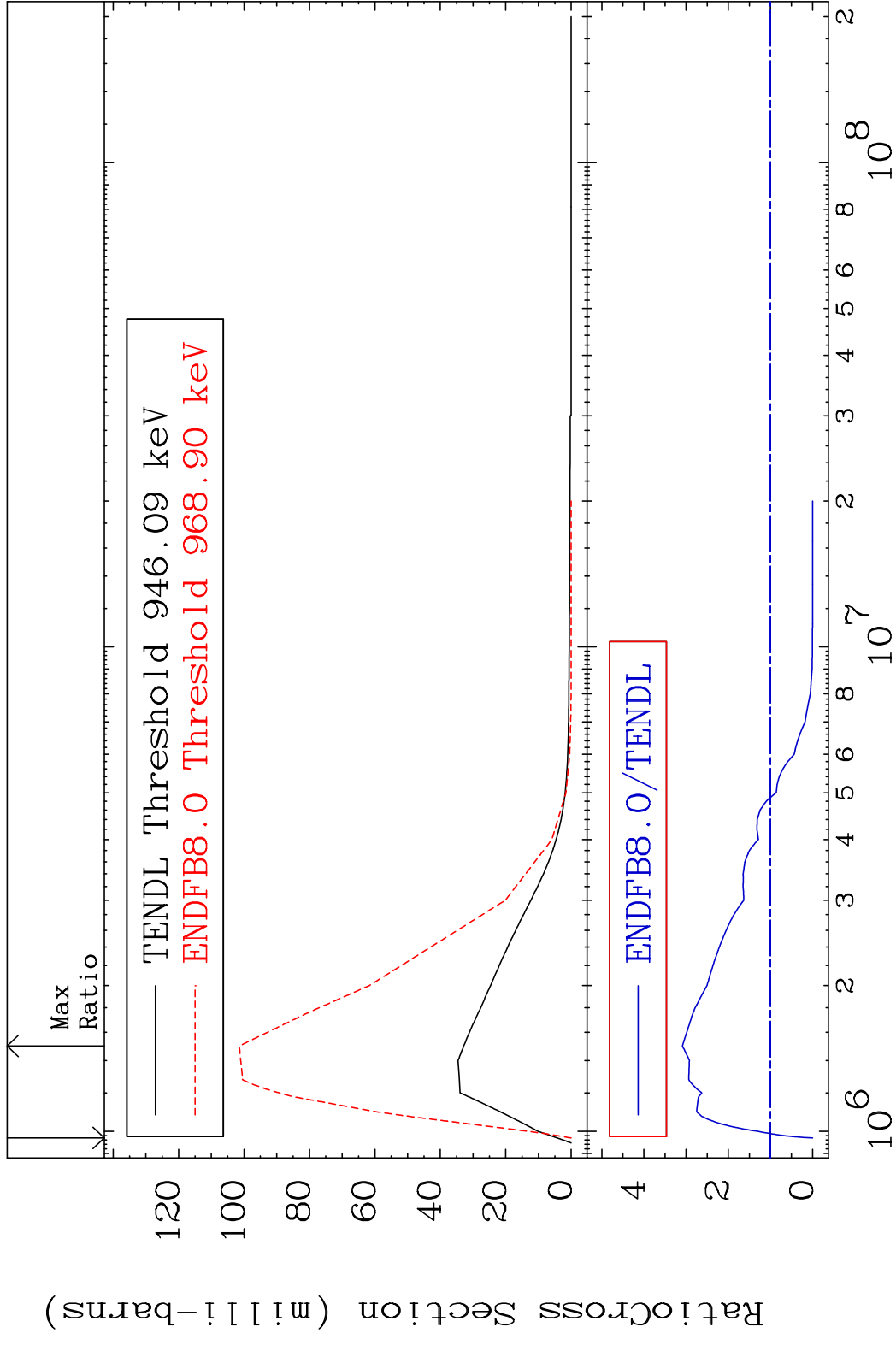
27 Incident Energy (eV) 41-Nb-94

MAT 4128 MT= 69 (n, n') Level 41-Nb-94
 Cross Section -100.0 To -96.18%



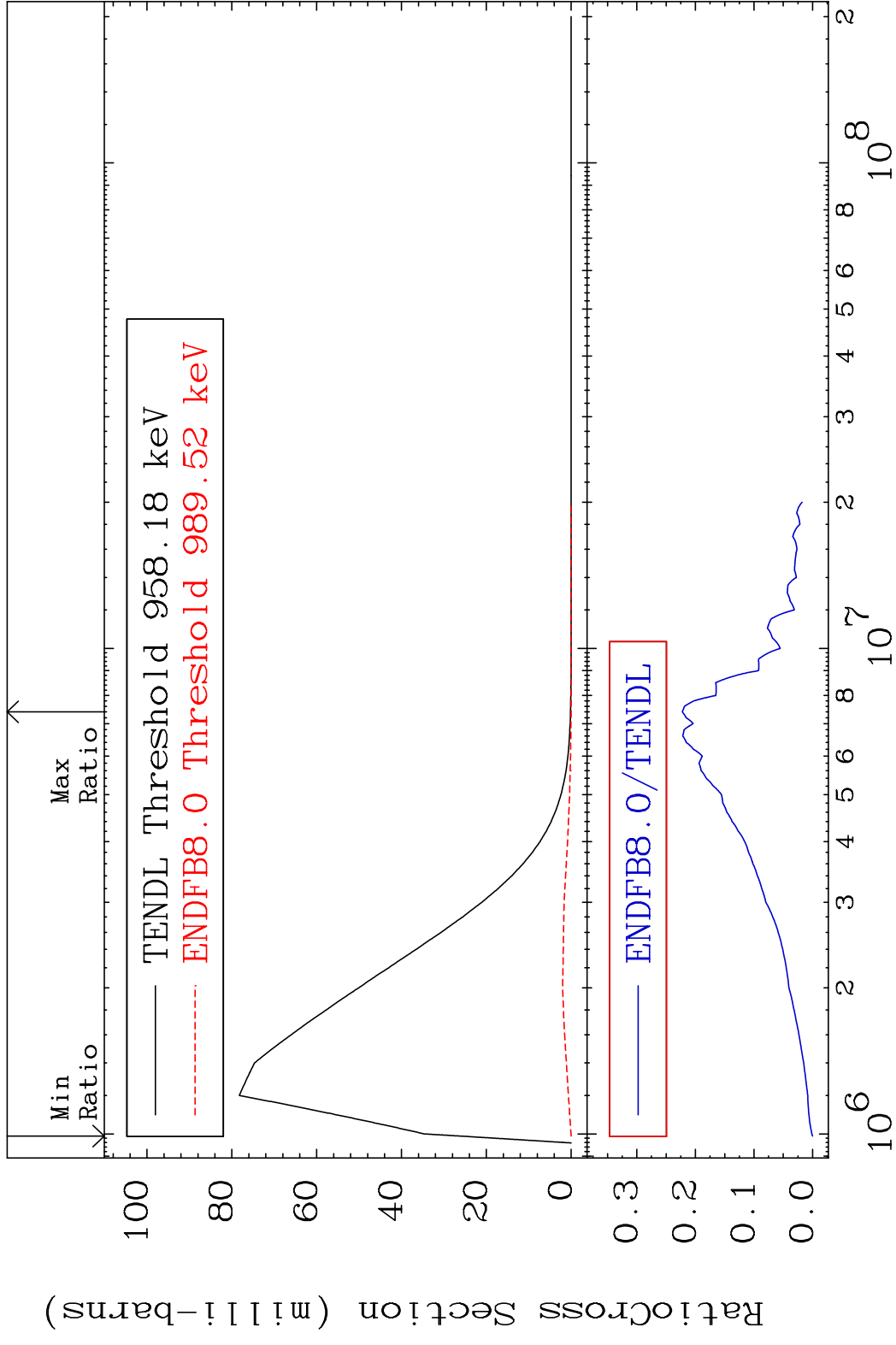
28 Incident Energy (eV) 41-Nb-94

MAT 4128 MT= 70 (n, n') Level 41-Nb-94
 Cross Section -100.0 To 208.9 %



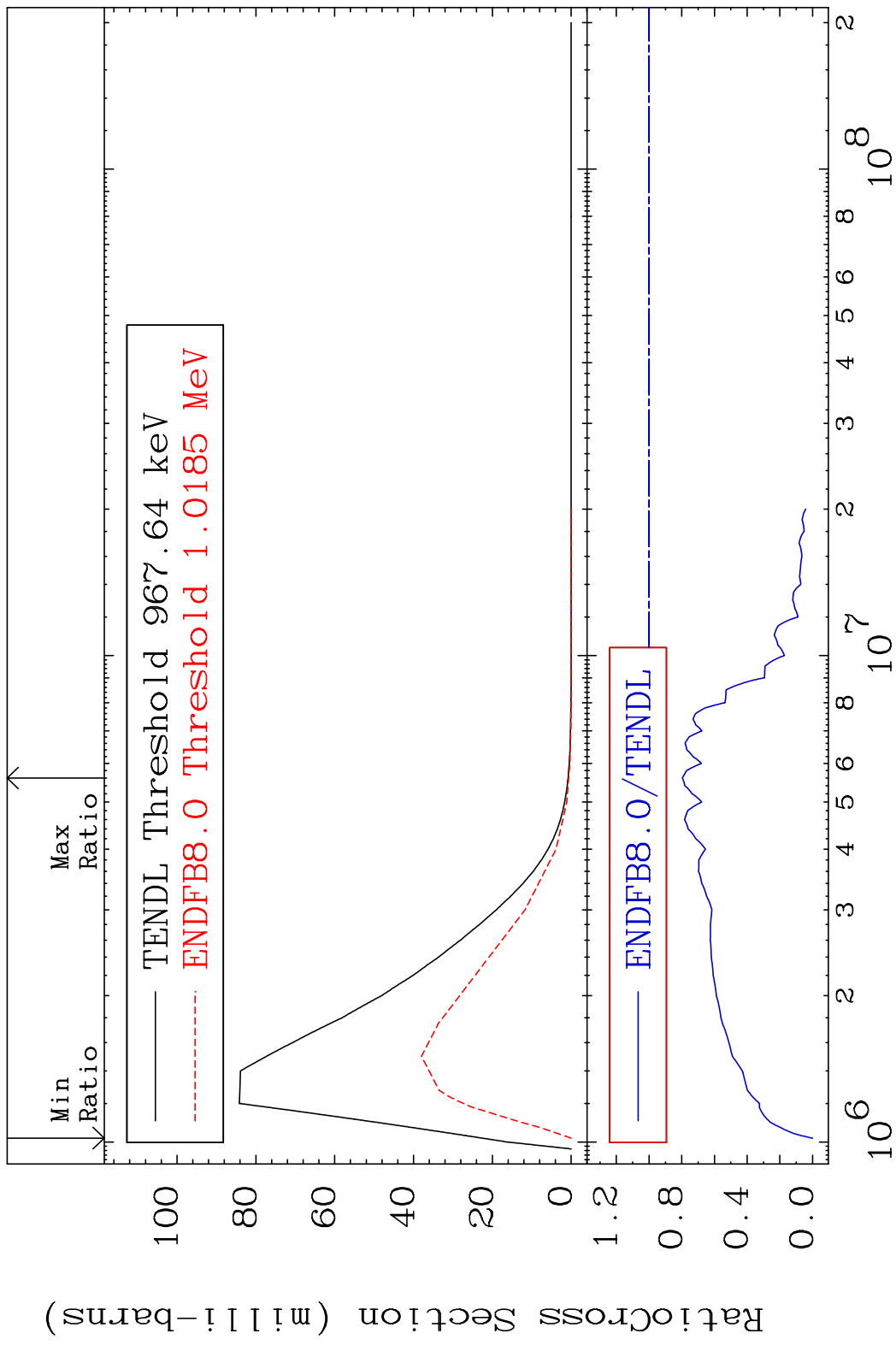
29 Incident Energy (eV) 41-Nb-94

MAT 4128 MT= 71 (n, n') Level 41-Nb-94
 Cross Section -100.0 To -77.77%

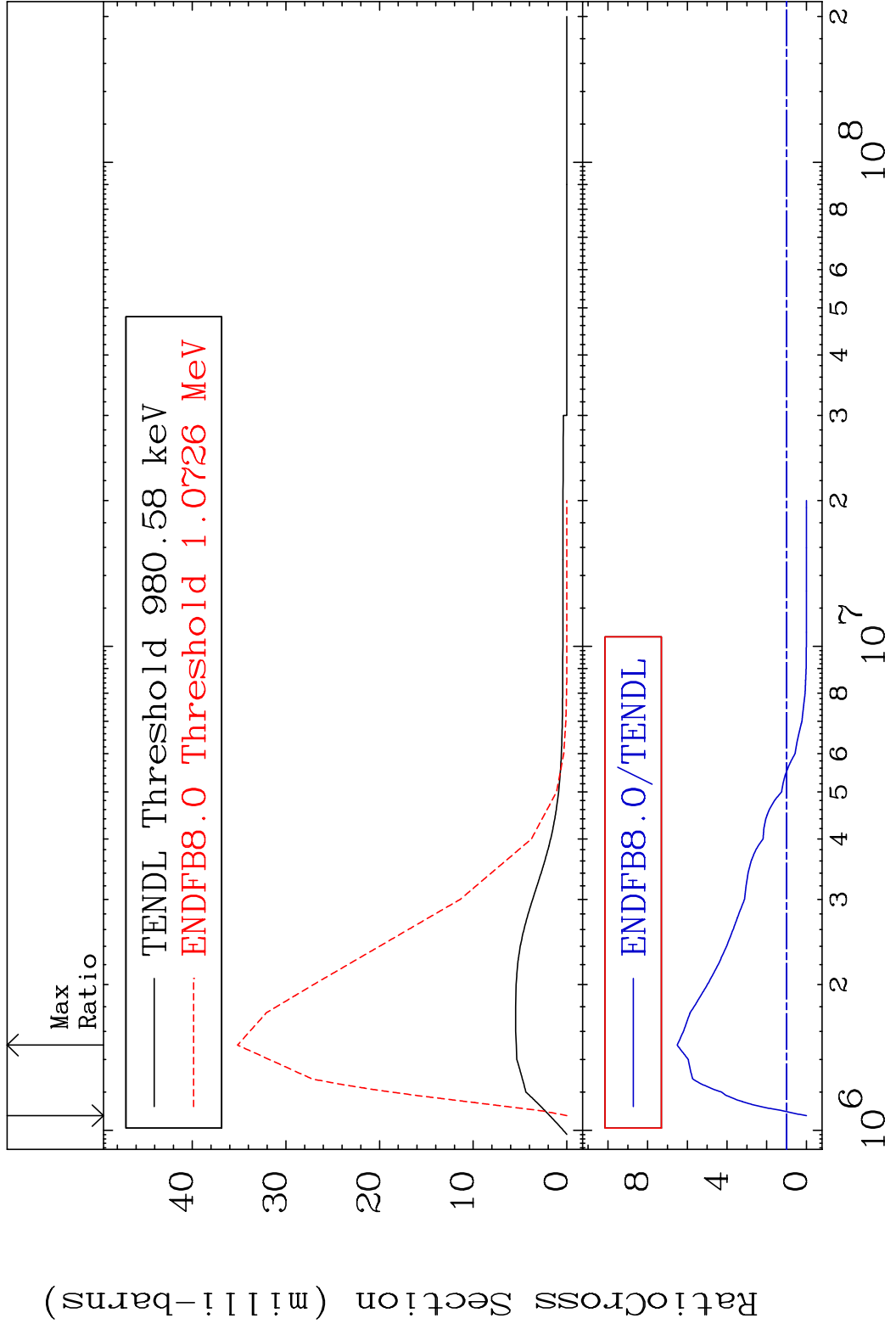


30 Incident Energy (eV) 41-Nb-94

MAT 4128 MT= 72 (n, n') Level 41-Nb-94
 Cross Section -100.0 To -20.37%

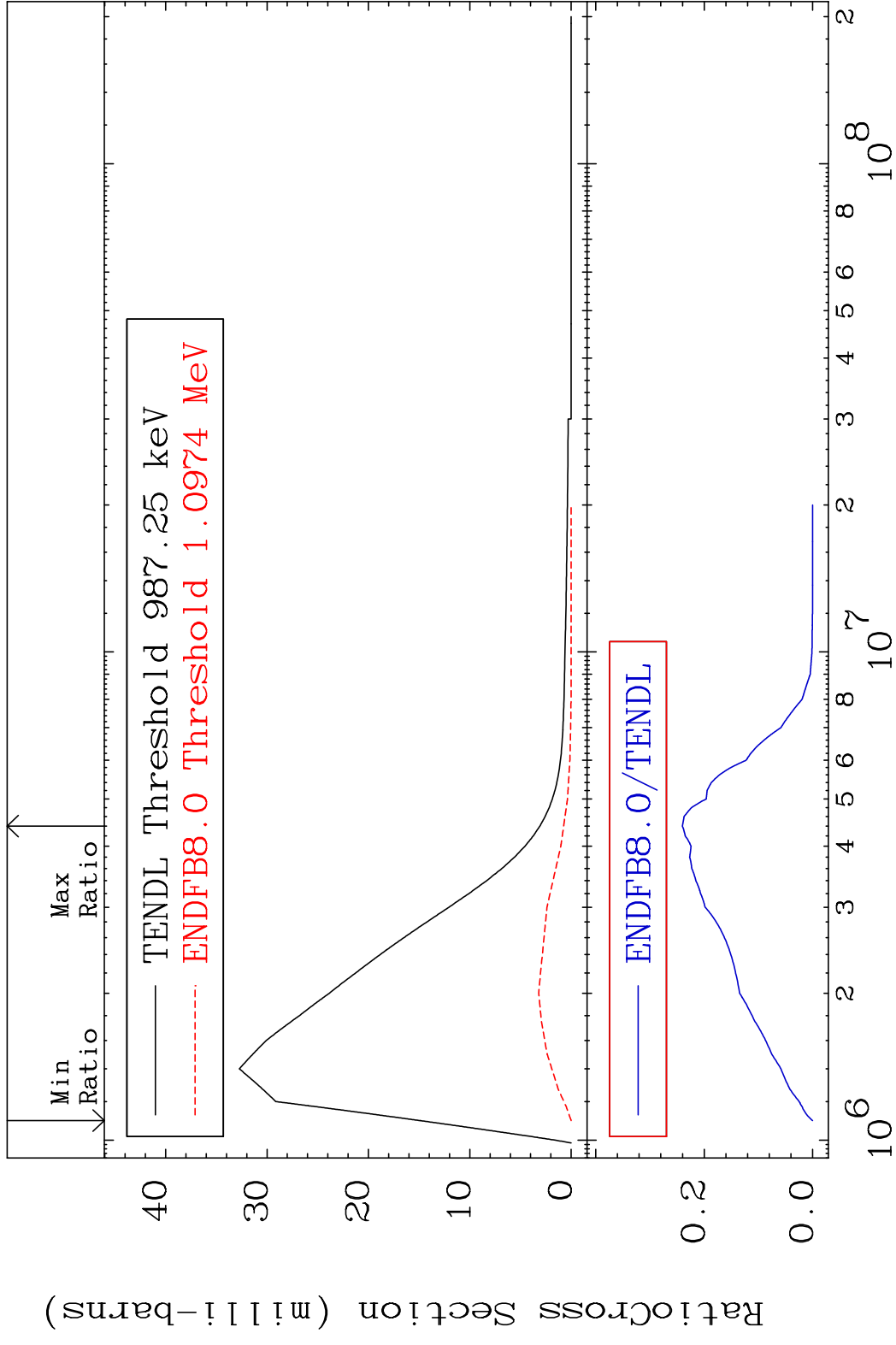


MAT 4128 MT= 73 (n, n') Level 41-Nb-94
 Cross Section -100.0 To 551.1 %



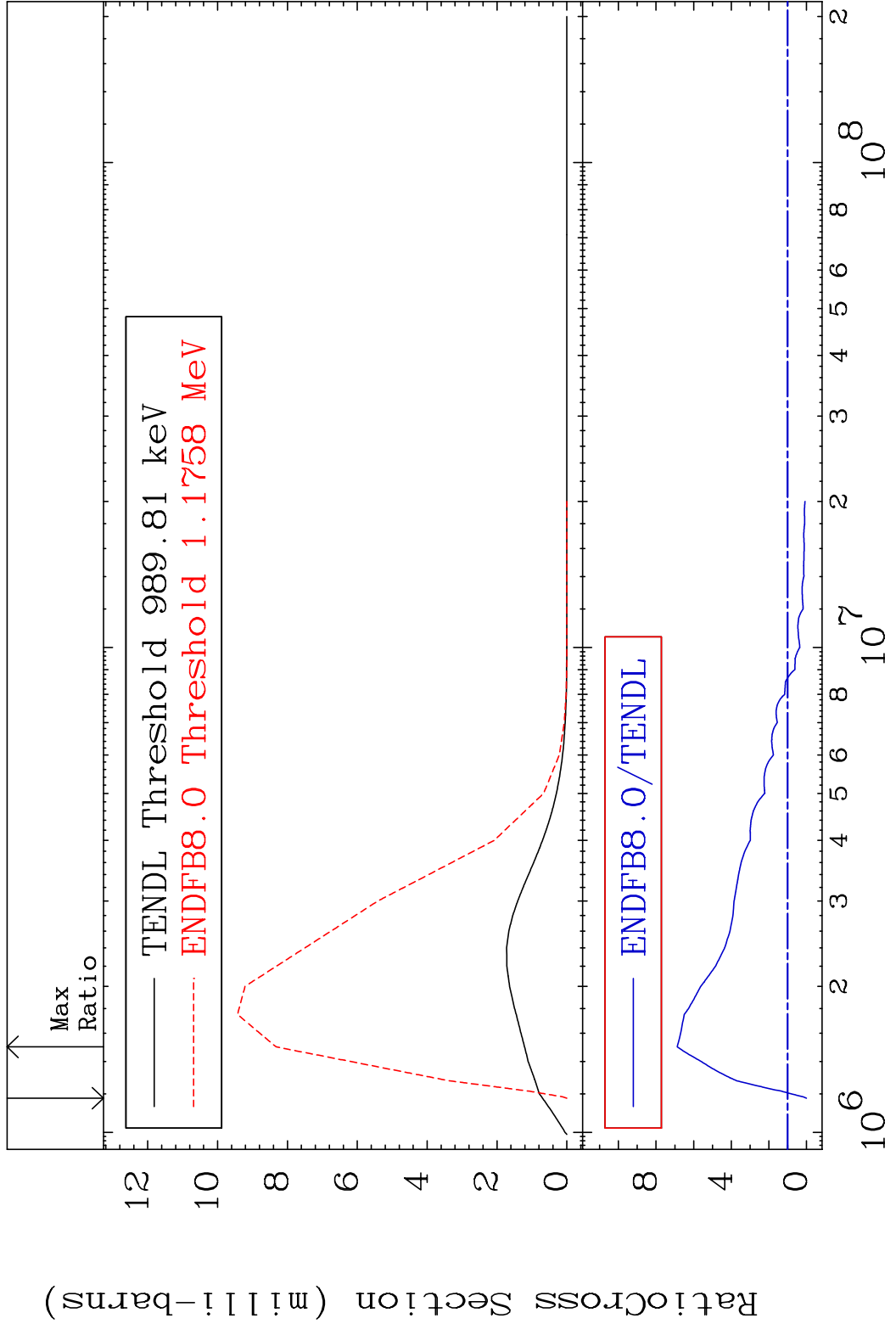
32 41-Nb-94

MAT 4128 MT= 74 (n,n') Level 41-Nb-94
 Cross Section -100.0 To -75.97%



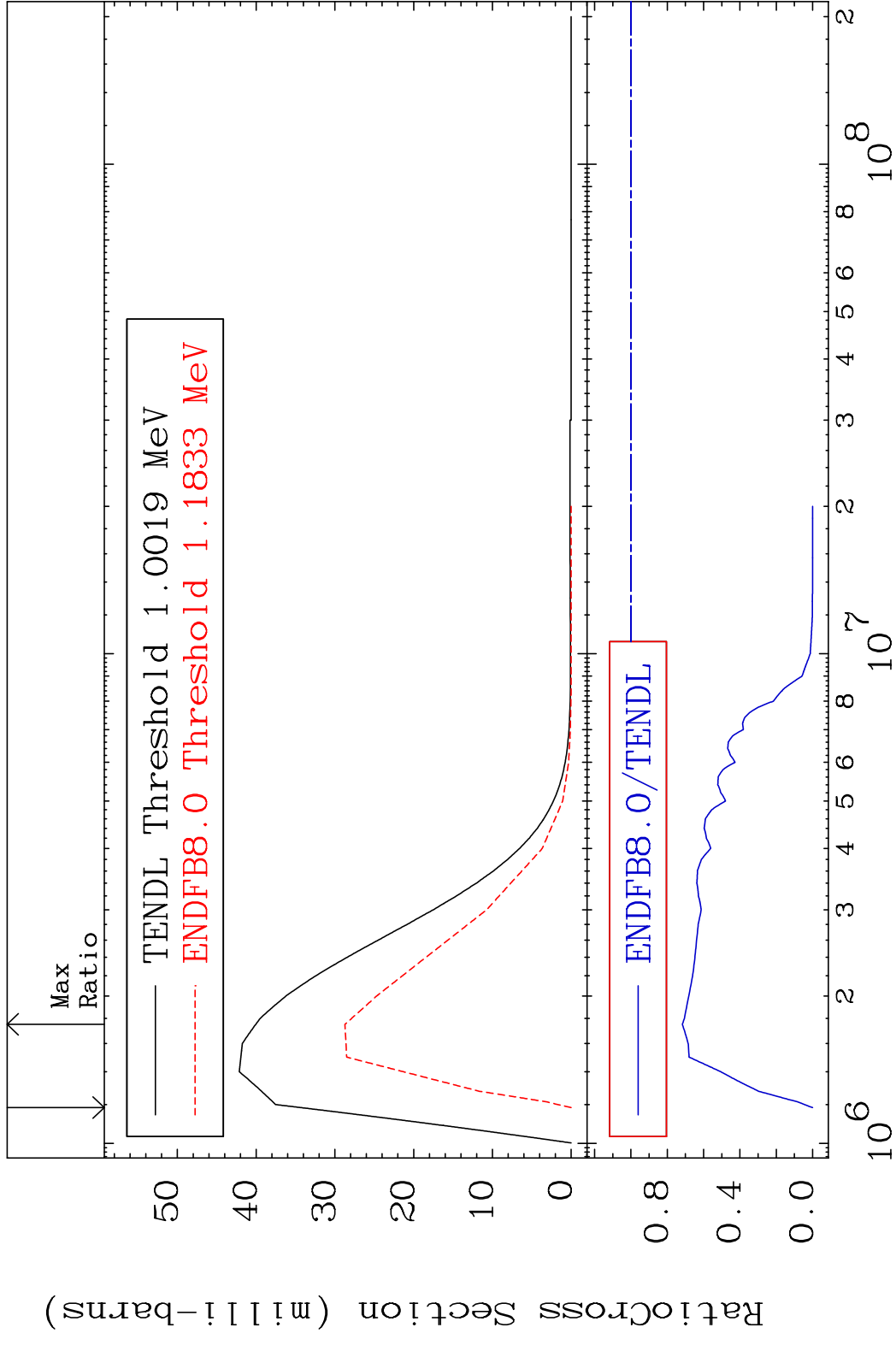
33 Incident Energy (eV) 41-Nb-94

MAT 4128 MT= 75 (n, n') Level 41-Nb-94
 Cross Section -100.0 To 587.5 %



34 Incident Energy (eV) 41-Nb-94

MAT 4128 MT= 76 (n,n') Level 41-Nb-94
 Cross Section -100.0 To -28.30%



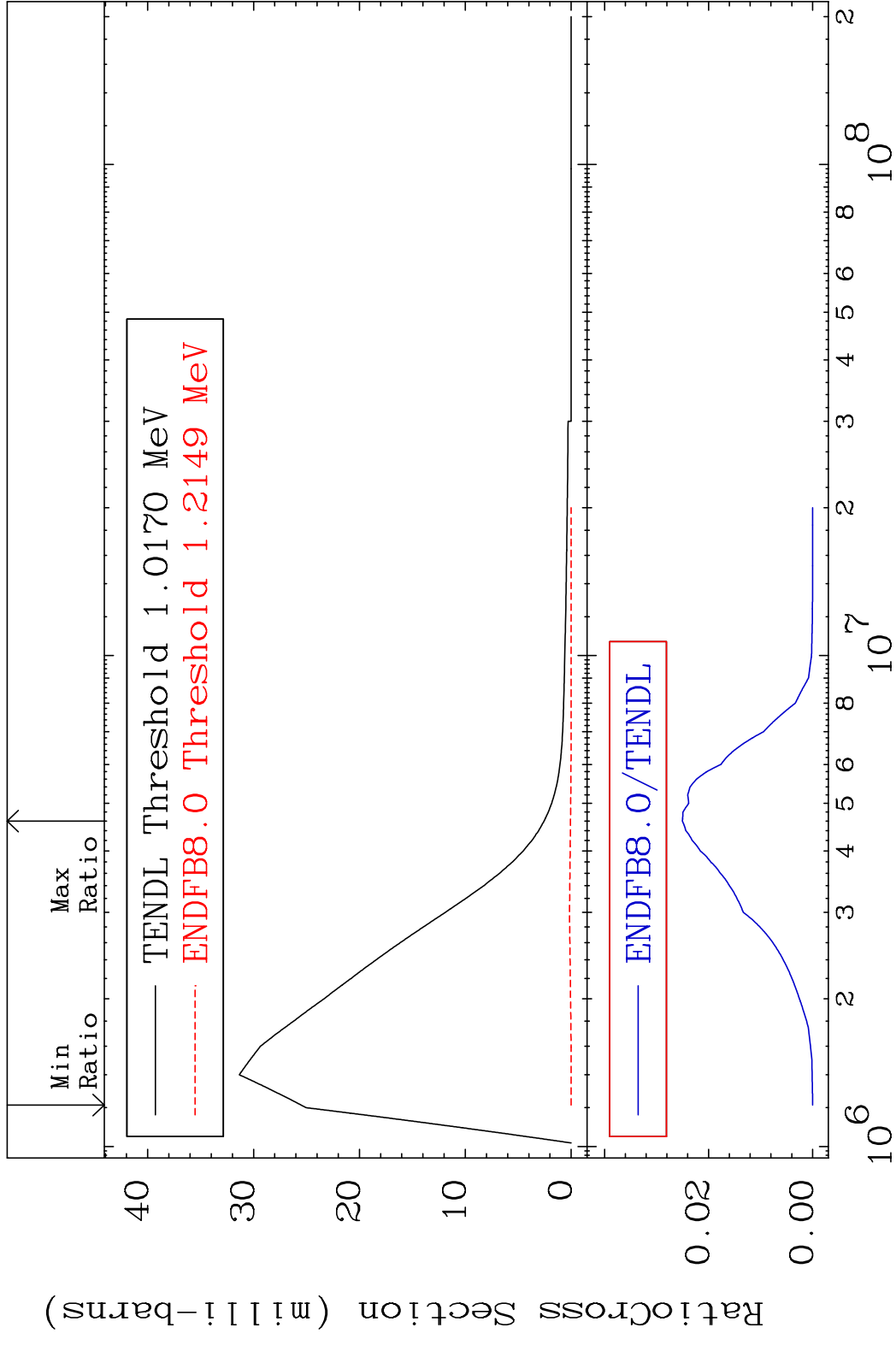
35 Incident Energy (eV) 41-Nb-94

MAT 4128

MT= 77 (n,n') Level

41-Nb-94

Cross Section -100.0 To -97.50%

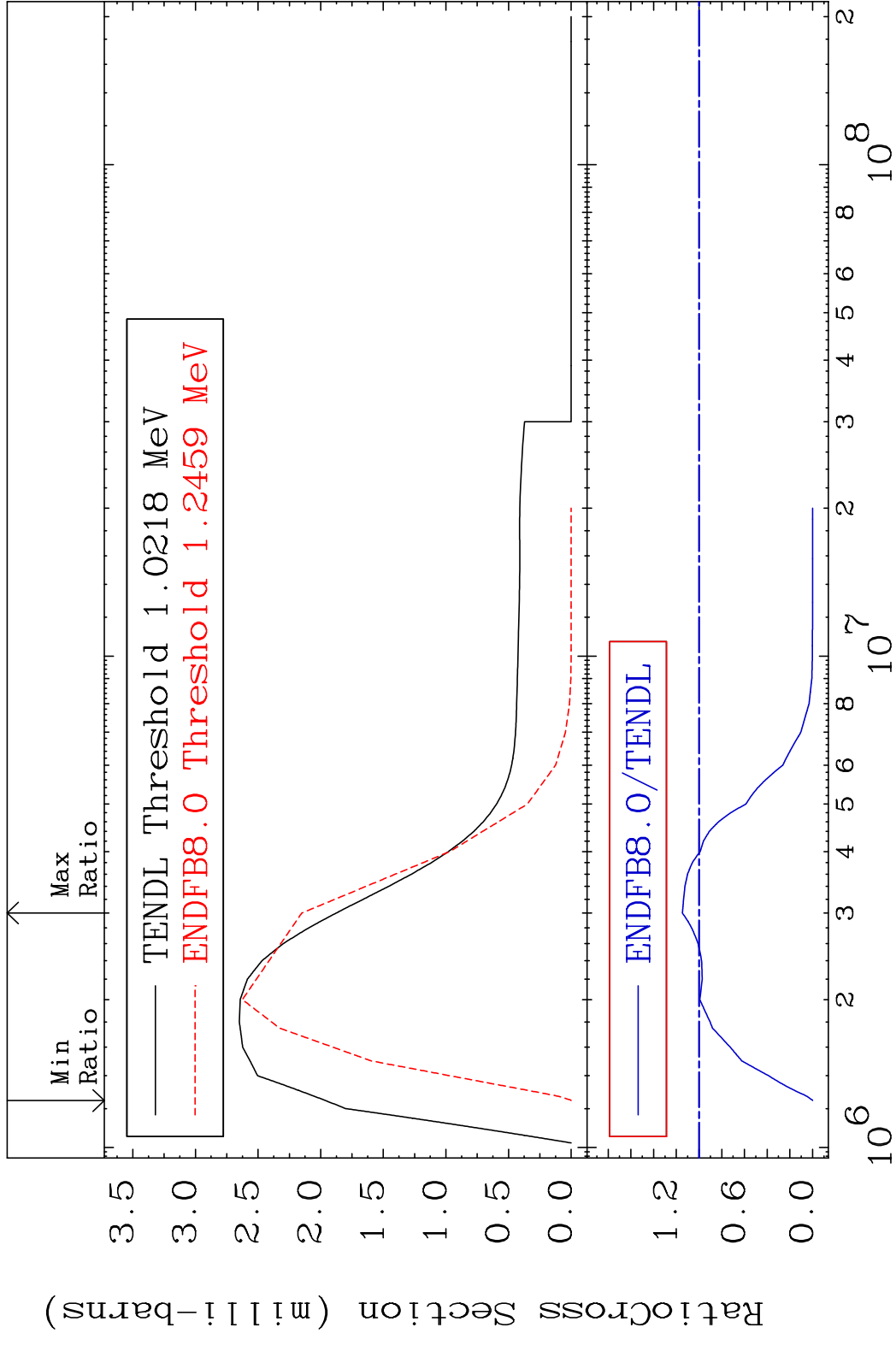


36

Incident Energy (eV)

41-Nb-94

MAT 4128 MT= 78 (n, n') Level 41-Nb-94
 Cross Section -100.0 To 14.68 %



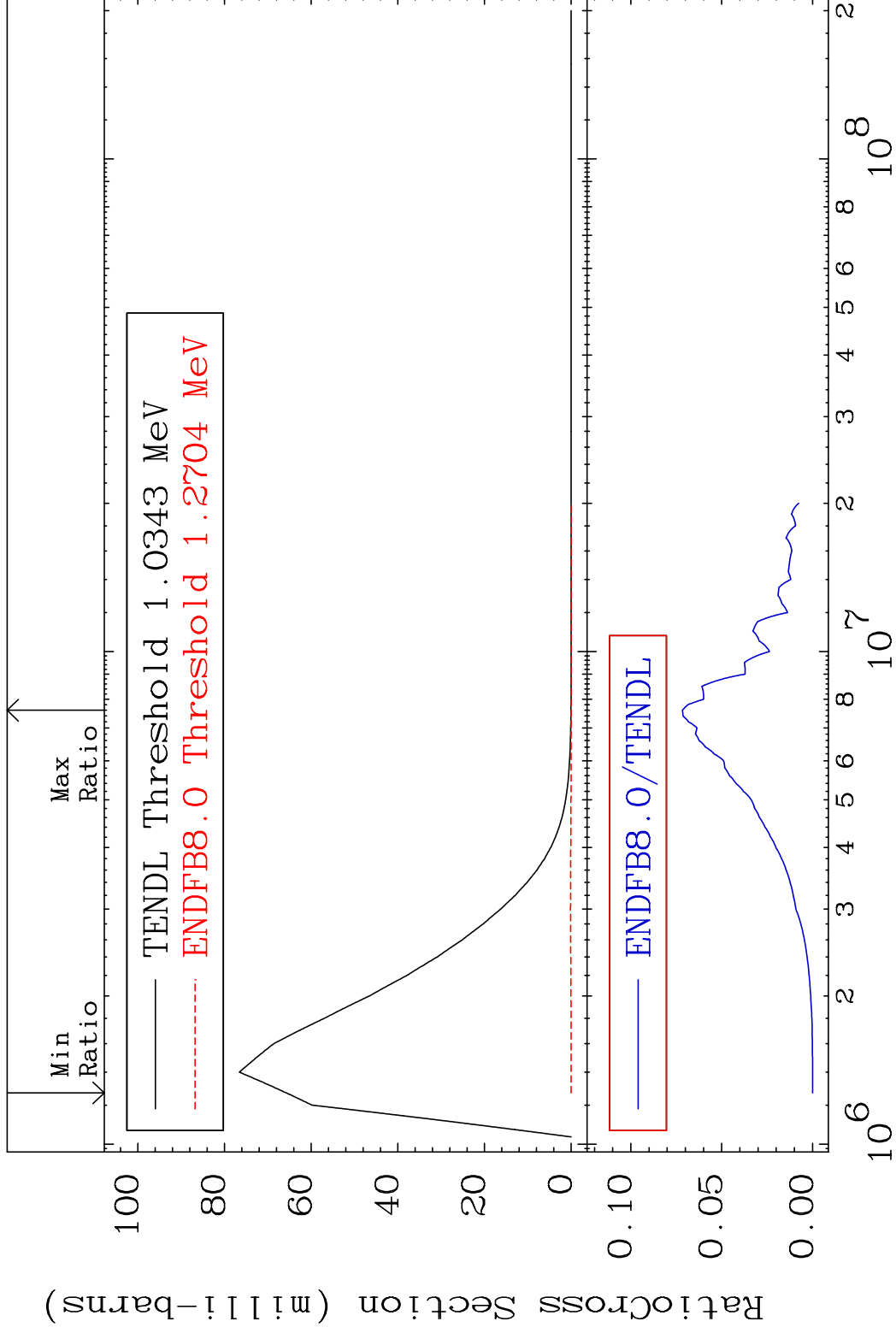
37 Incident Energy (eV) 41-Nb-94

MAT 4128

MT= 79 (n, n') Level

41-Nb-94

Cross Section -100.0 To -92.83%



38

Incident Energy (eV)

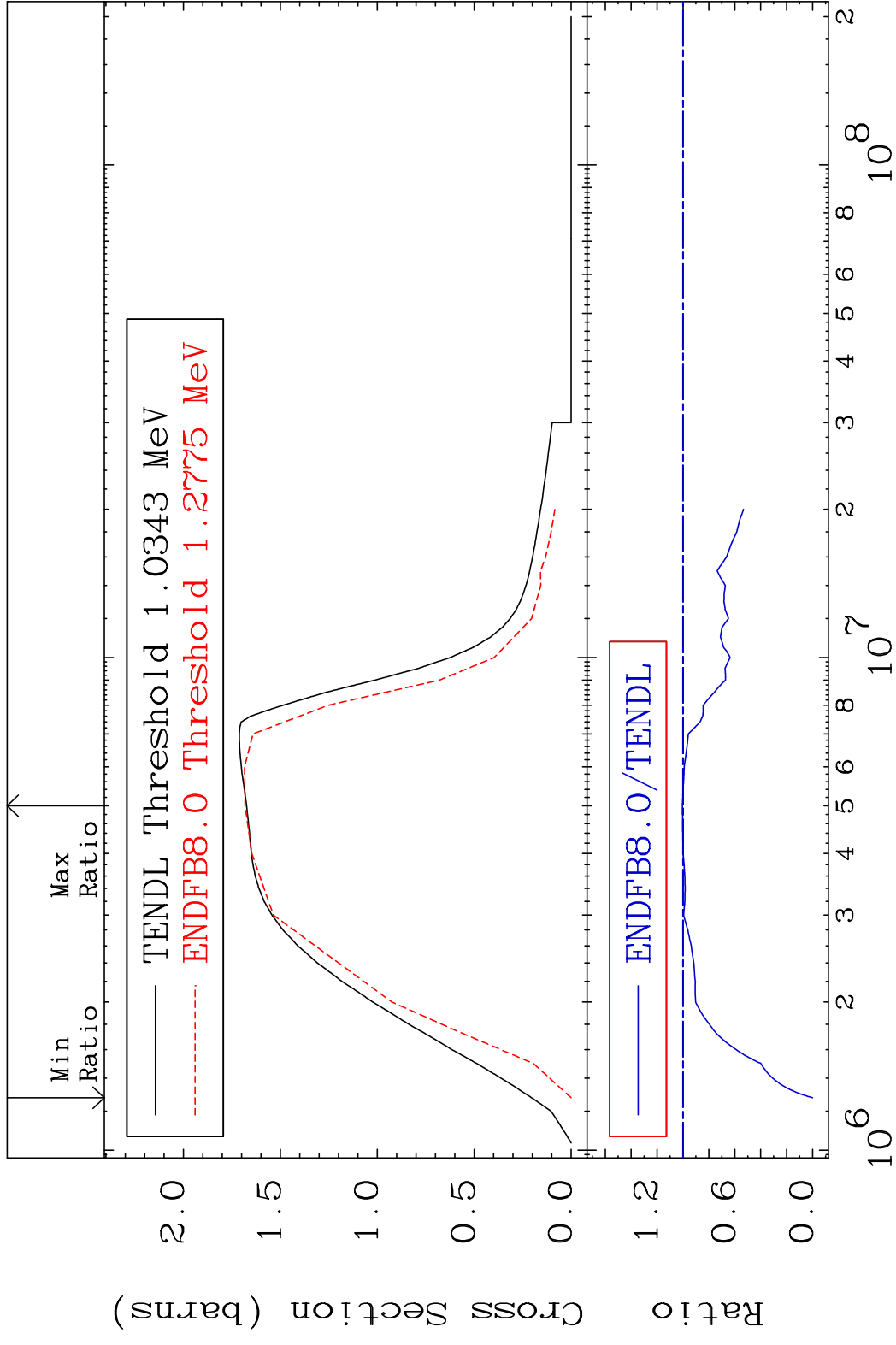
41-Nb-94

MAT 4128

(n, n') Continuum

41-Nb-94

Cross Section -100.0 To 0.470 %



39

Incident Energy (eV)

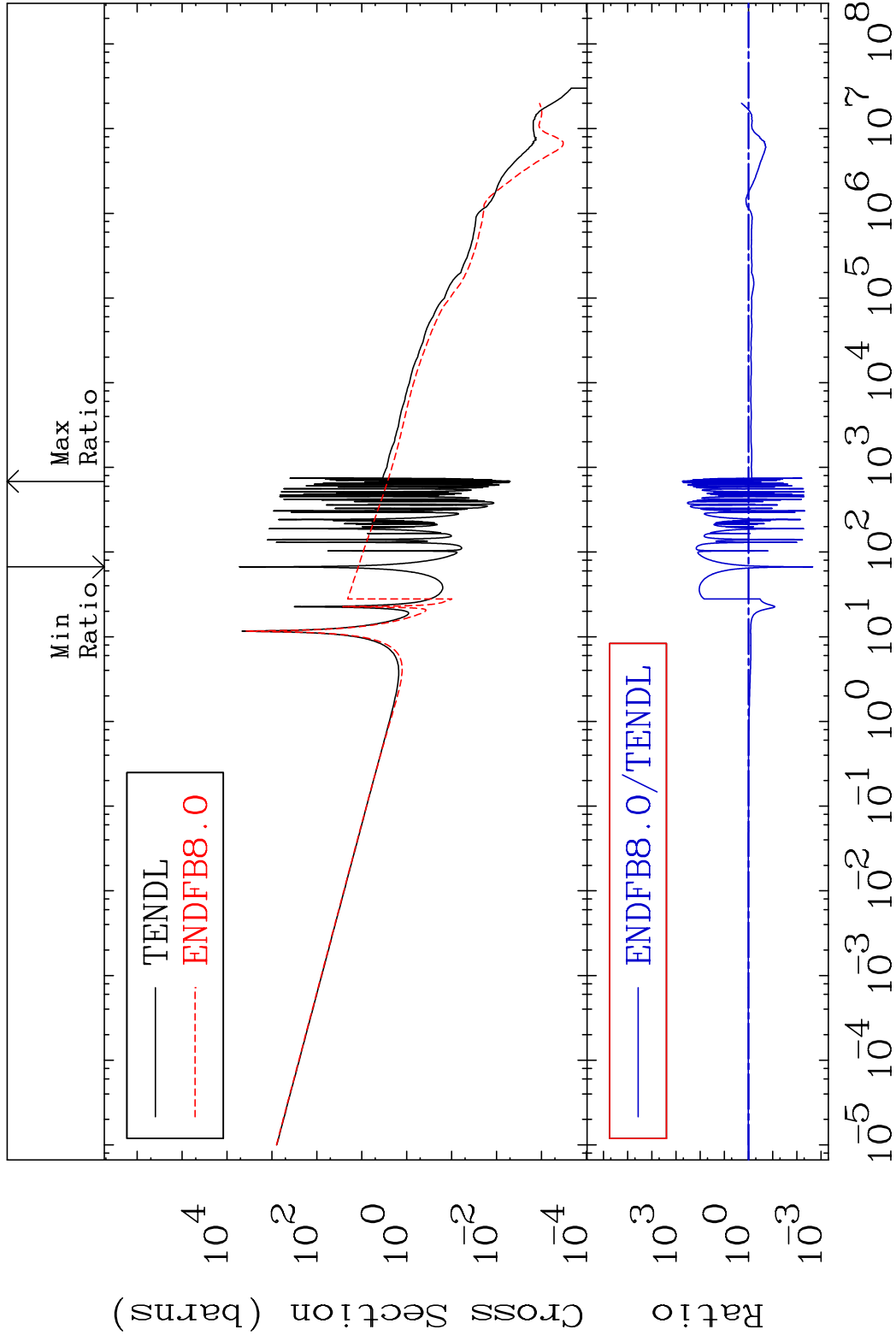
41-Nb-94

MAT 4128

(n, γ)

41-Nb-94

Cross Section -99.78 To 9999. %



40

Incident Energy (eV)

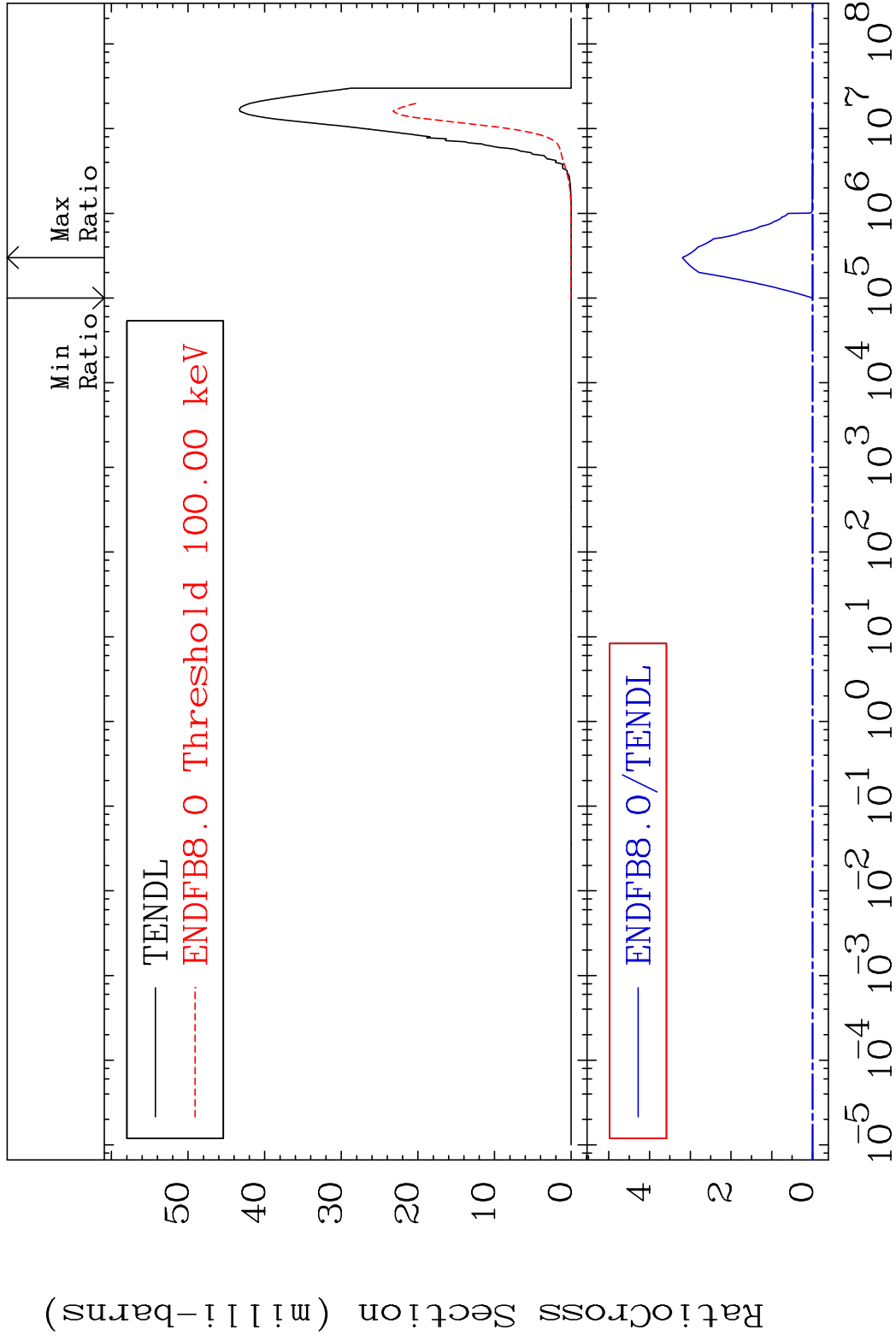
41-Nb-94

MAT 4128

(n, p)

41-Nb-94

Cross Section -100.0 To 9999. %



41

Incident Energy (eV)

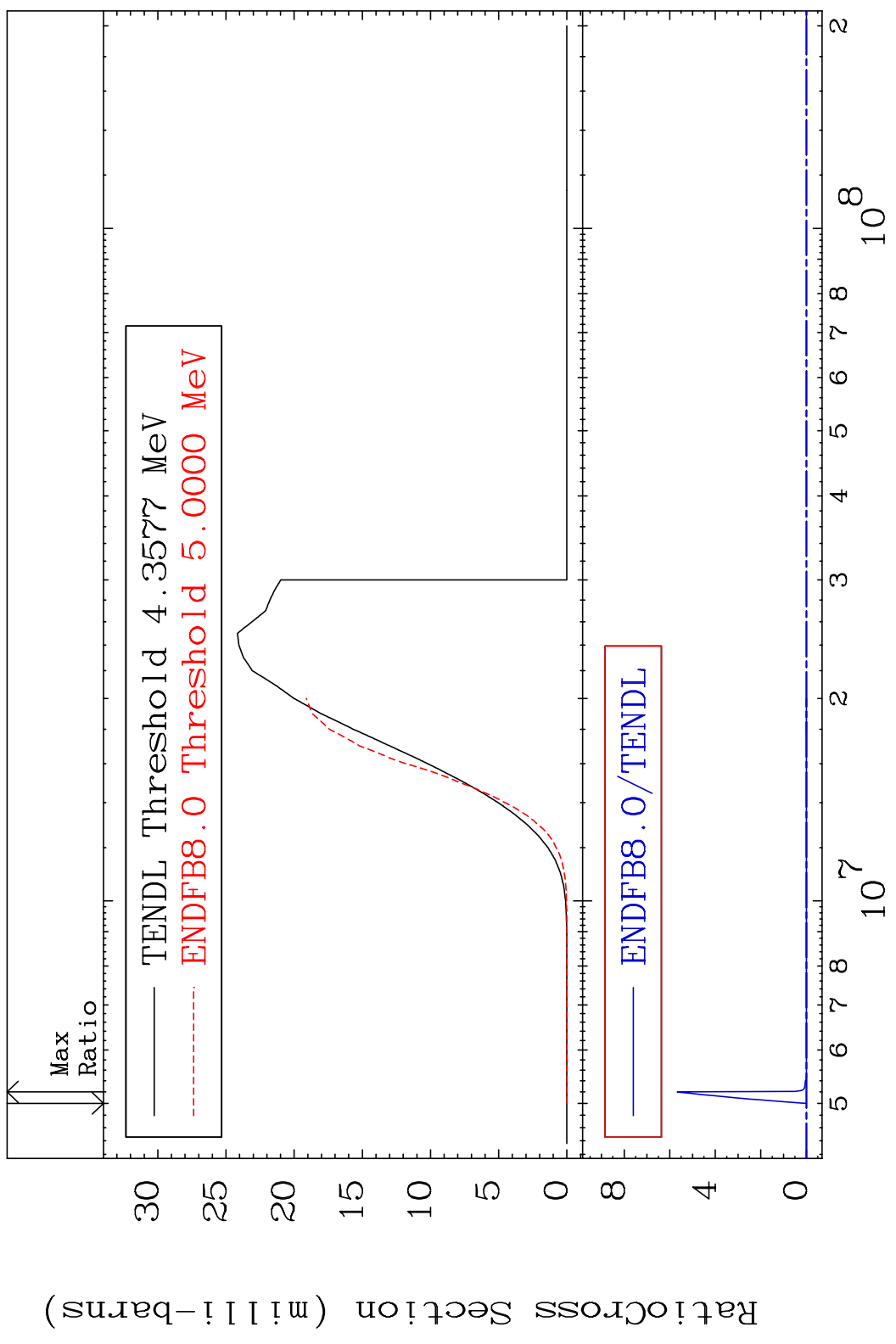
41-Nb-94

MAT 4128

(n,d)

41-Nb-94

Cross Section -100.0 To 9999. %

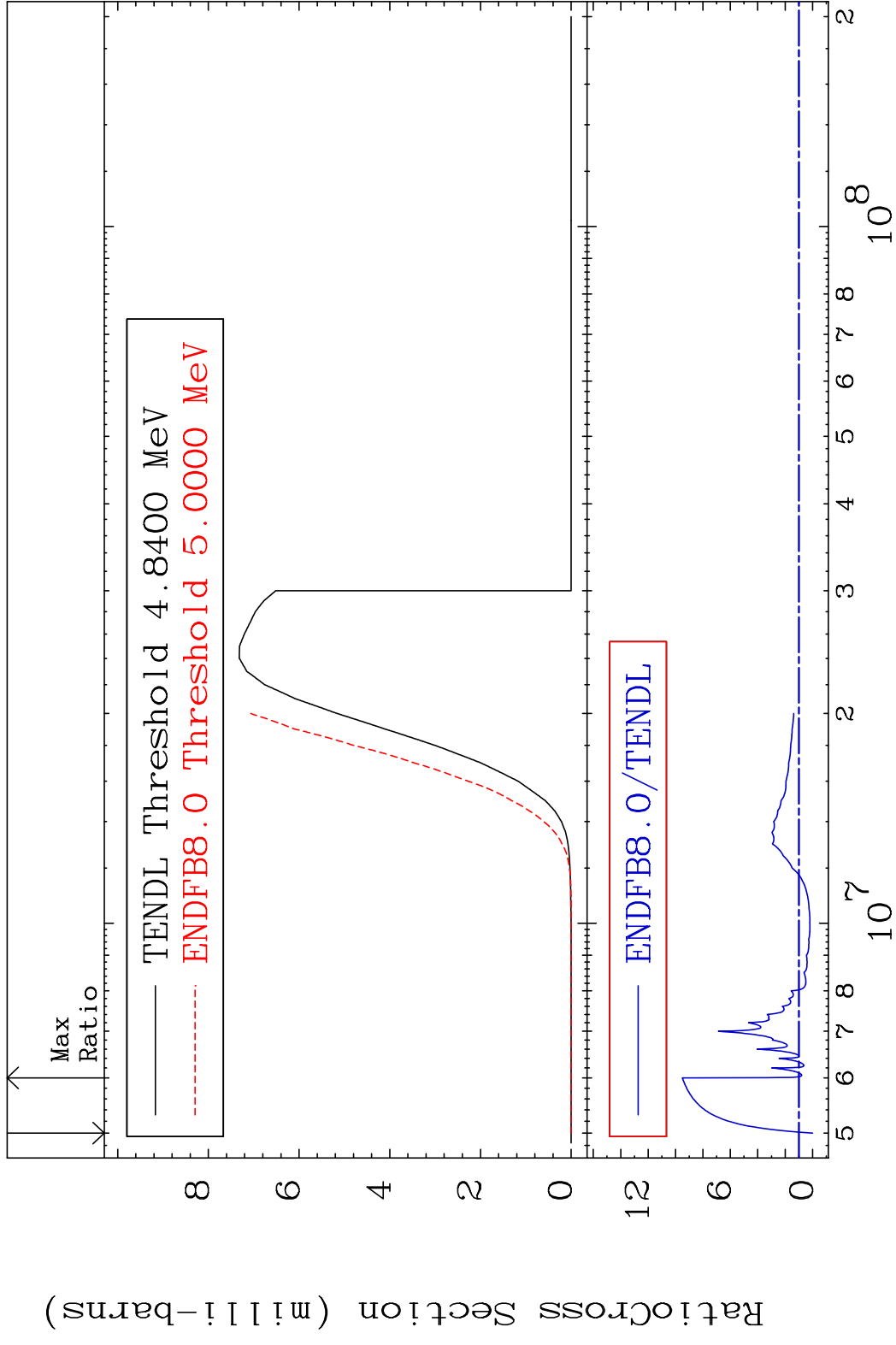


42

Incident Energy (eV)

41-Nb-94

MAT 4128 (n, t) 41-Nb-94
 Cross Section -100.0 To 850.2 %

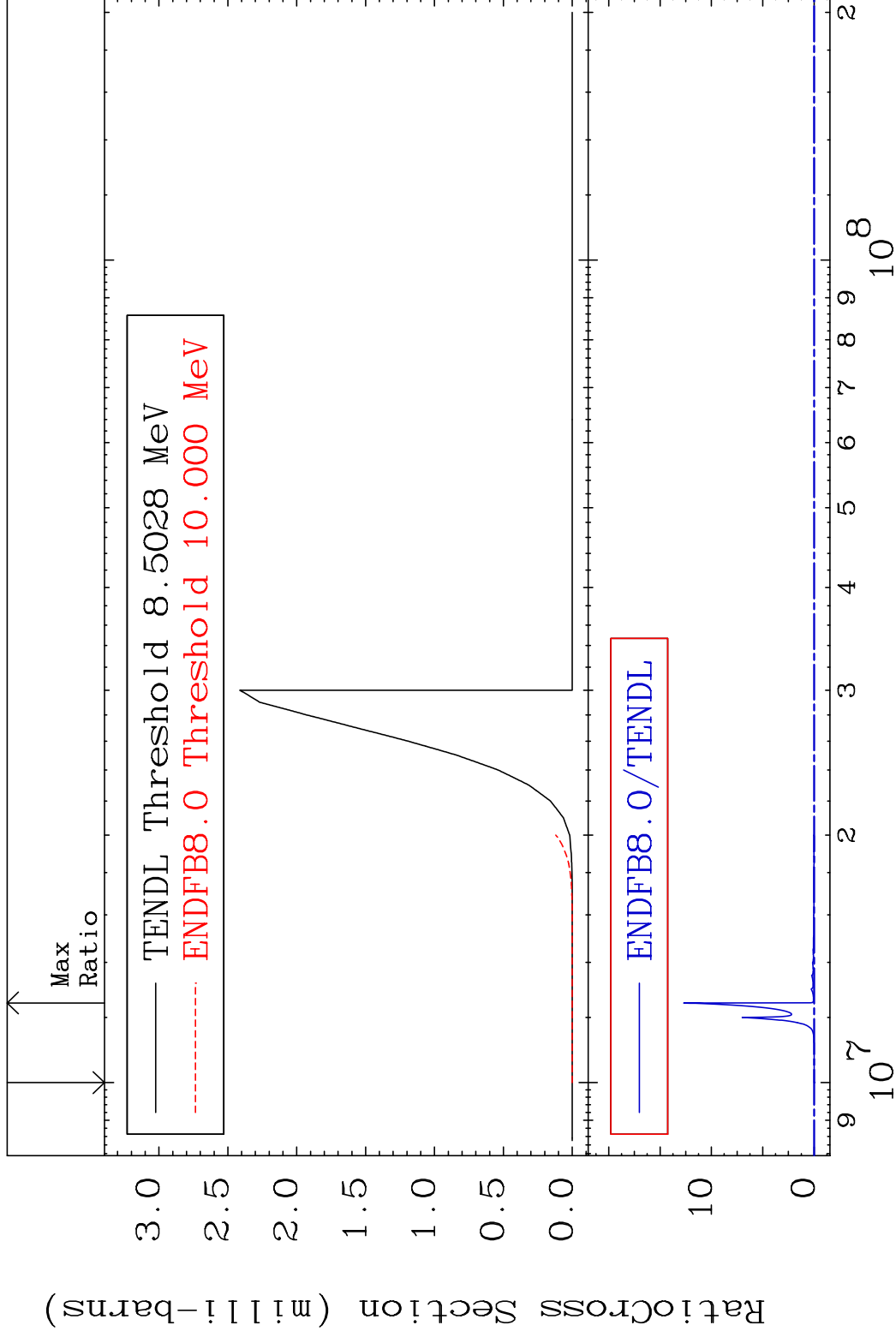


MAT 4128

(n, He-3)

41-Nb-94

Cross Section -100.0 To 9999. %



44

Incident Energy (eV)

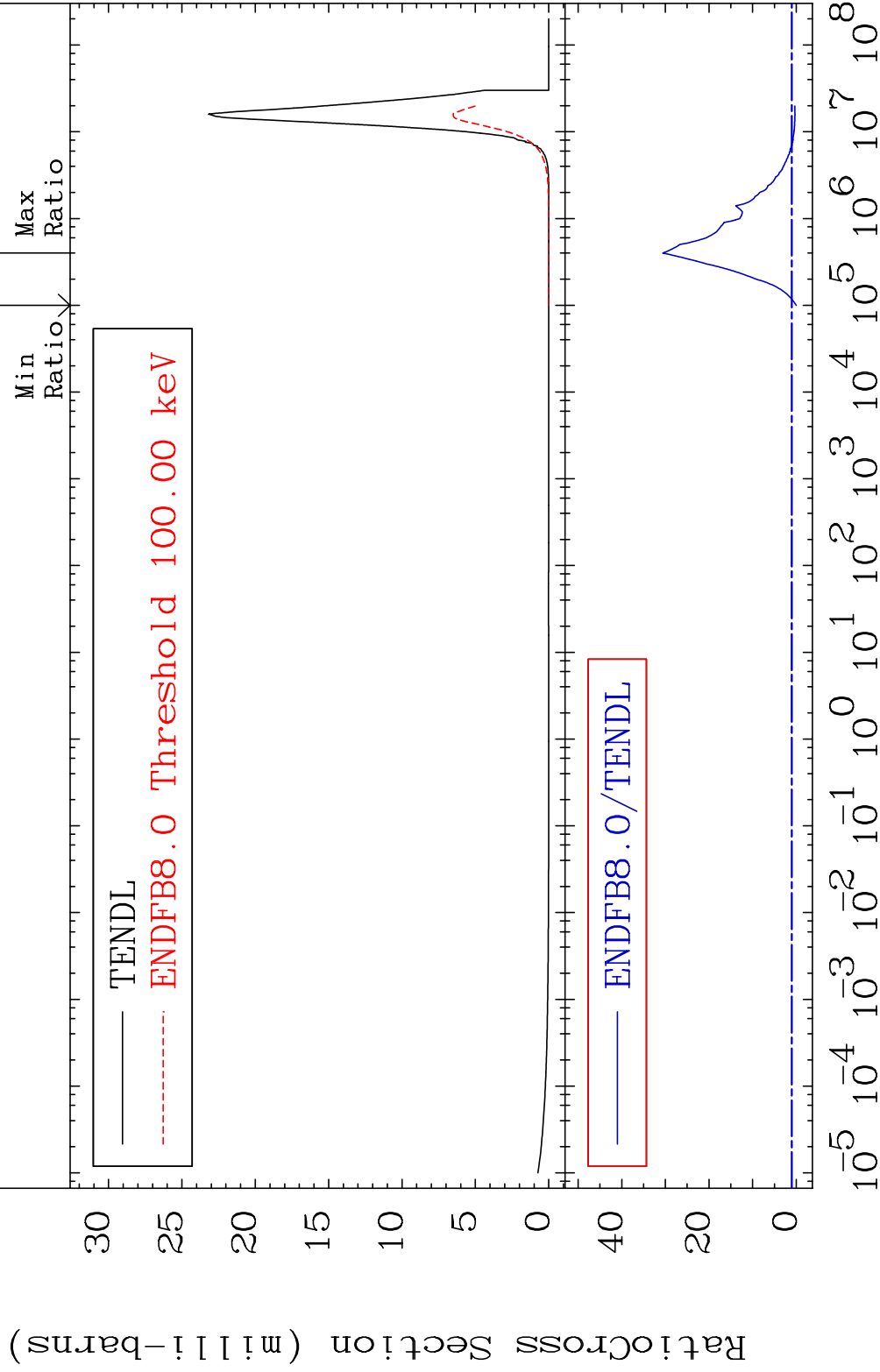
41-Nb-94

MAT 4128

(n, α)

41-Nb-94

Cross Section -100.0 To 2960. %



45

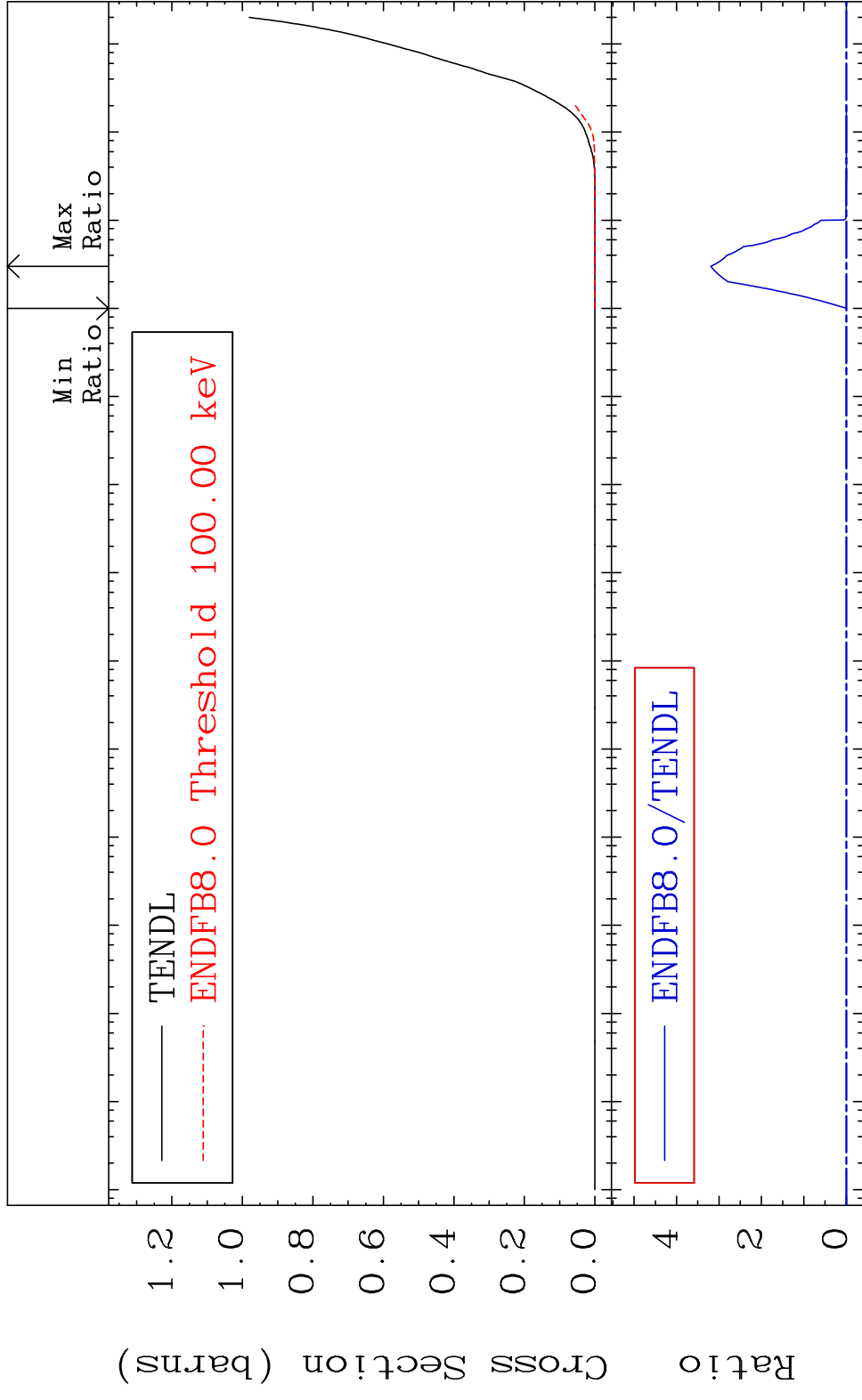
Incident Energy (eV)

41-Nb-94

MAT 4128

Hydrogen Production
Cross Section -100.0 To 9999. %

41-Nb-94

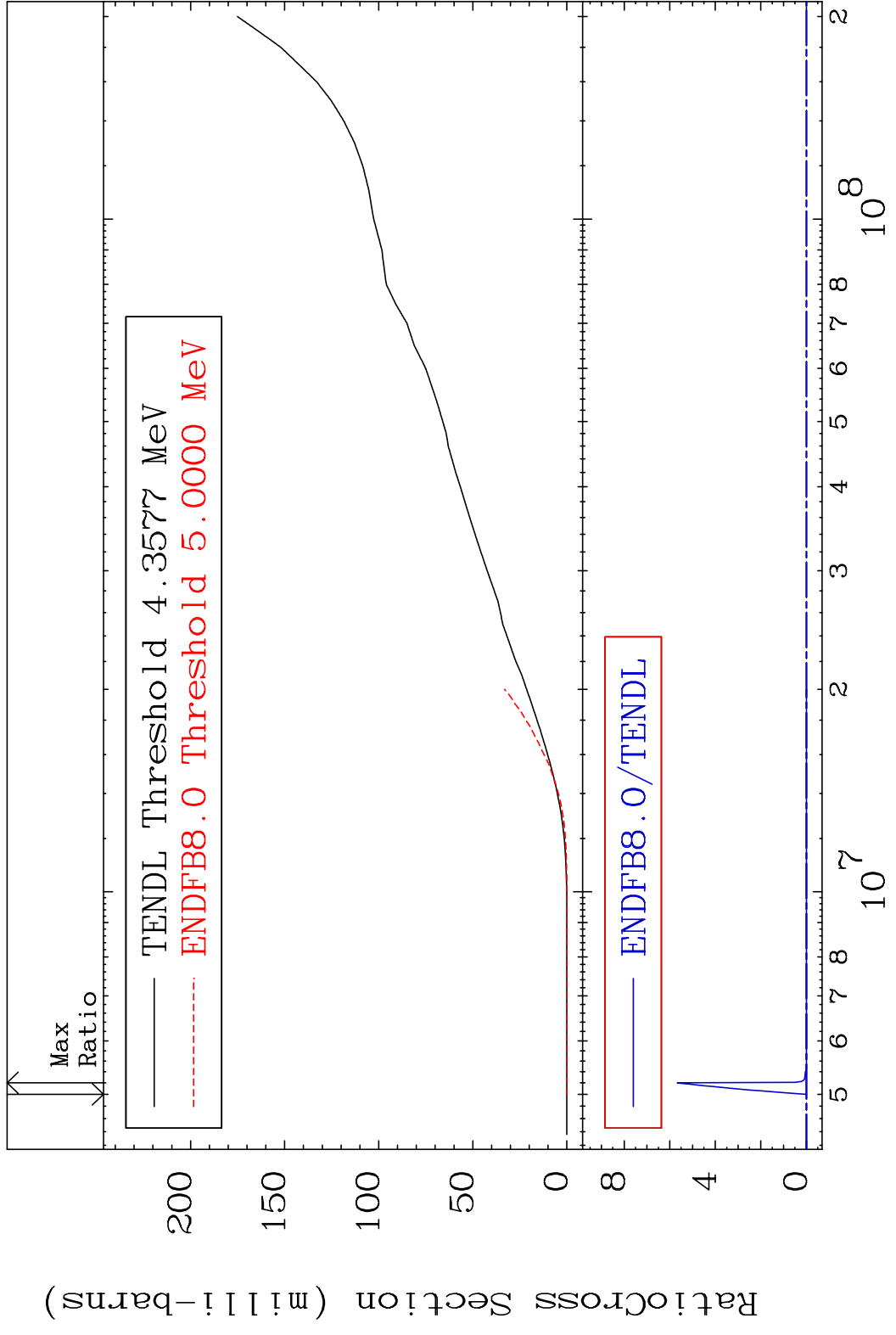


46

Incident Energy (eV)

41-Nb-94

MAT 4128 Deuterium Production 41-Nb-94
 Cross Section -100.0 To 9999. %



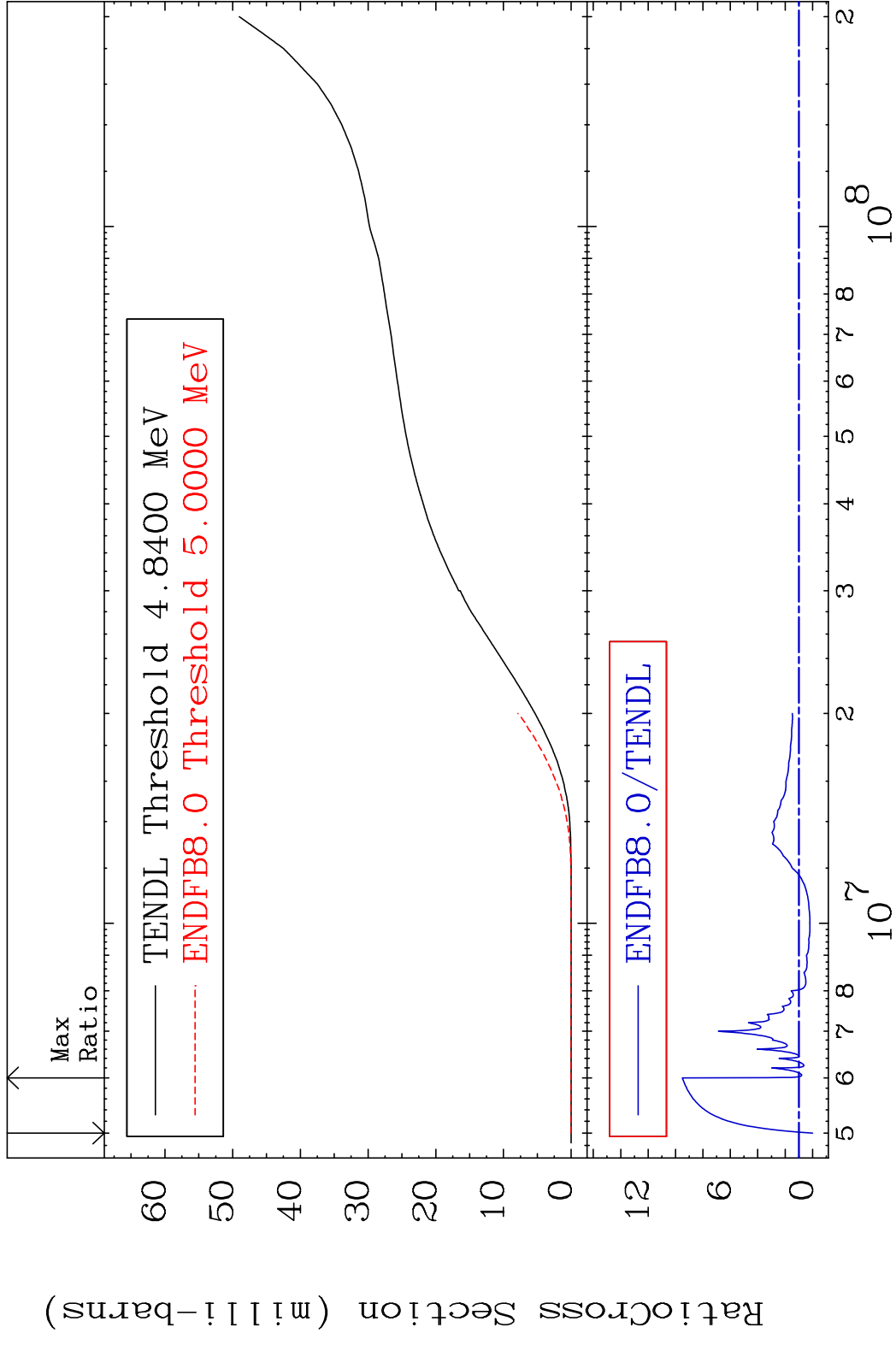
47 Incident Energy (eV) 41-Nb-94

MAT 4128

Tritium Production

41-Nb-94

Cross Section -100.0 To 850.2 %



48

Incident Energy (eV)

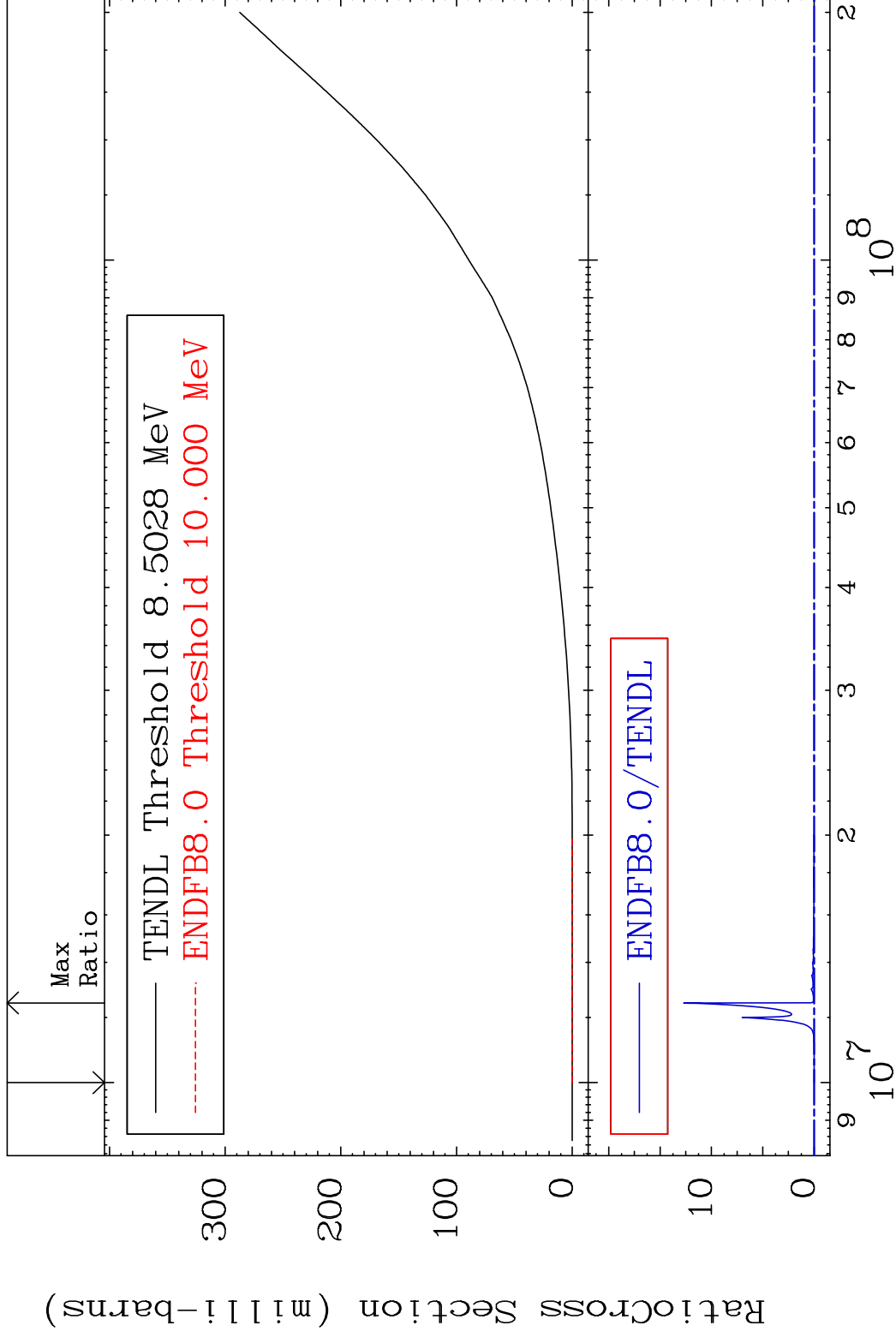
41-Nb-94

MAT 4128

He-3 Production

41-Nb-94

Cross Section -100.0 To 9999. %



49

Incident Energy (eV)

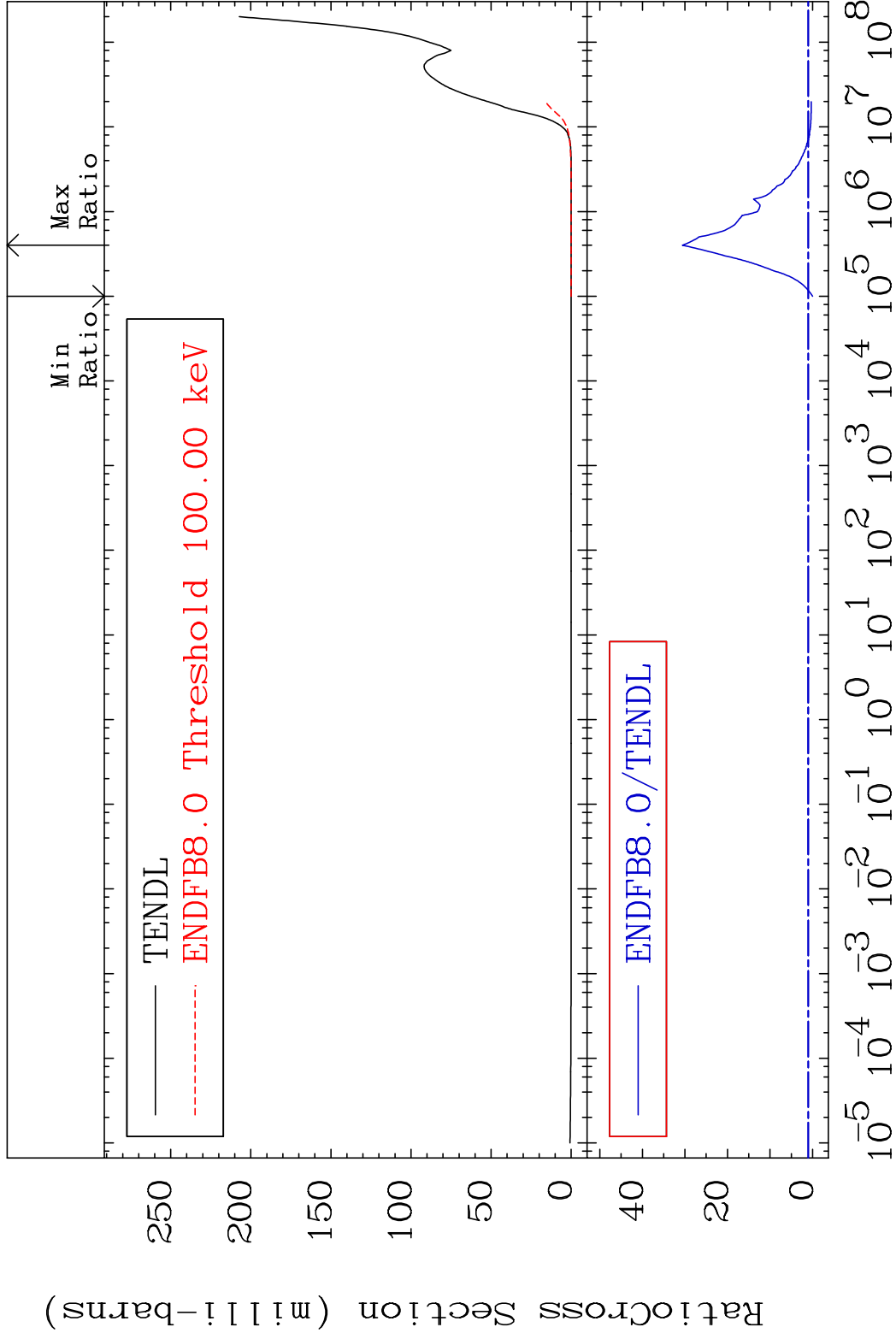
41-Nb-94

MAT 4128

He-4 Production

41-Nb-94

Cross Section -100.0 To 2960. %

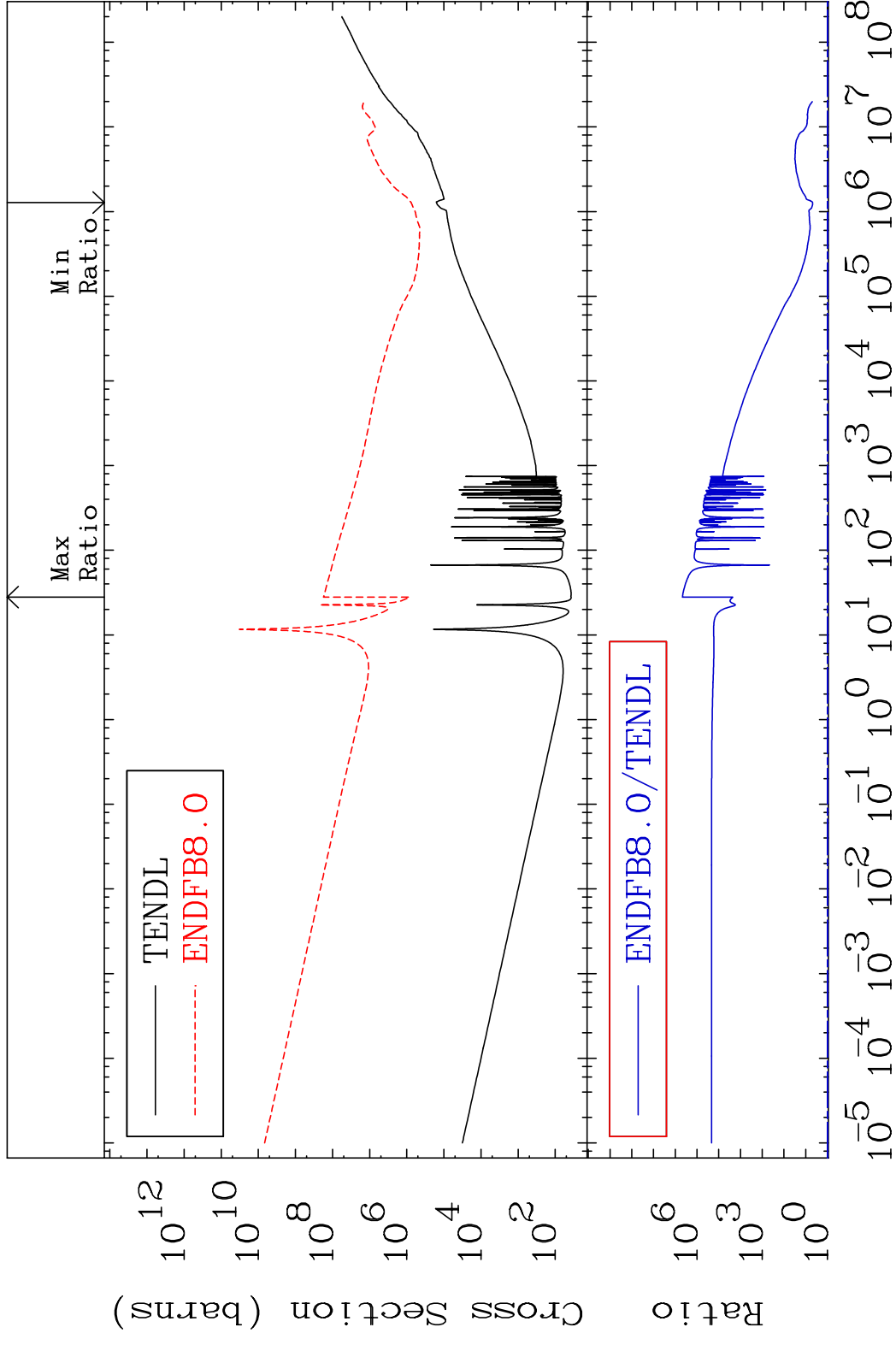


50

Incident Energy (eV)

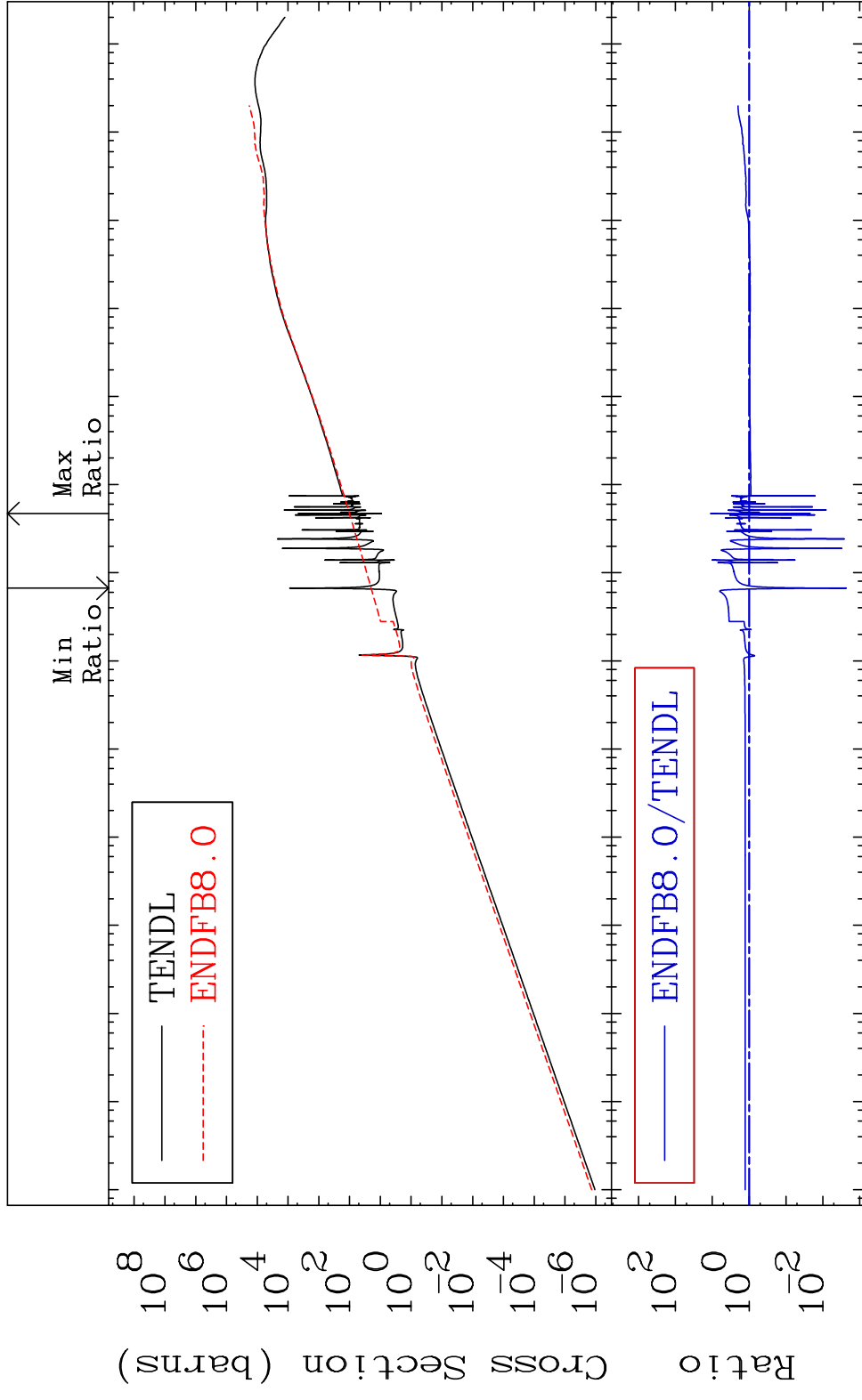
41-Nb-94

MAT 4128 Kerma total (eV-barns) 41-Nb-94
 Cross Section 382.1 To 9999. %



MAT 4128

Kerma elastic Cross Section -99.777 To 1003. %
41-Nb-94

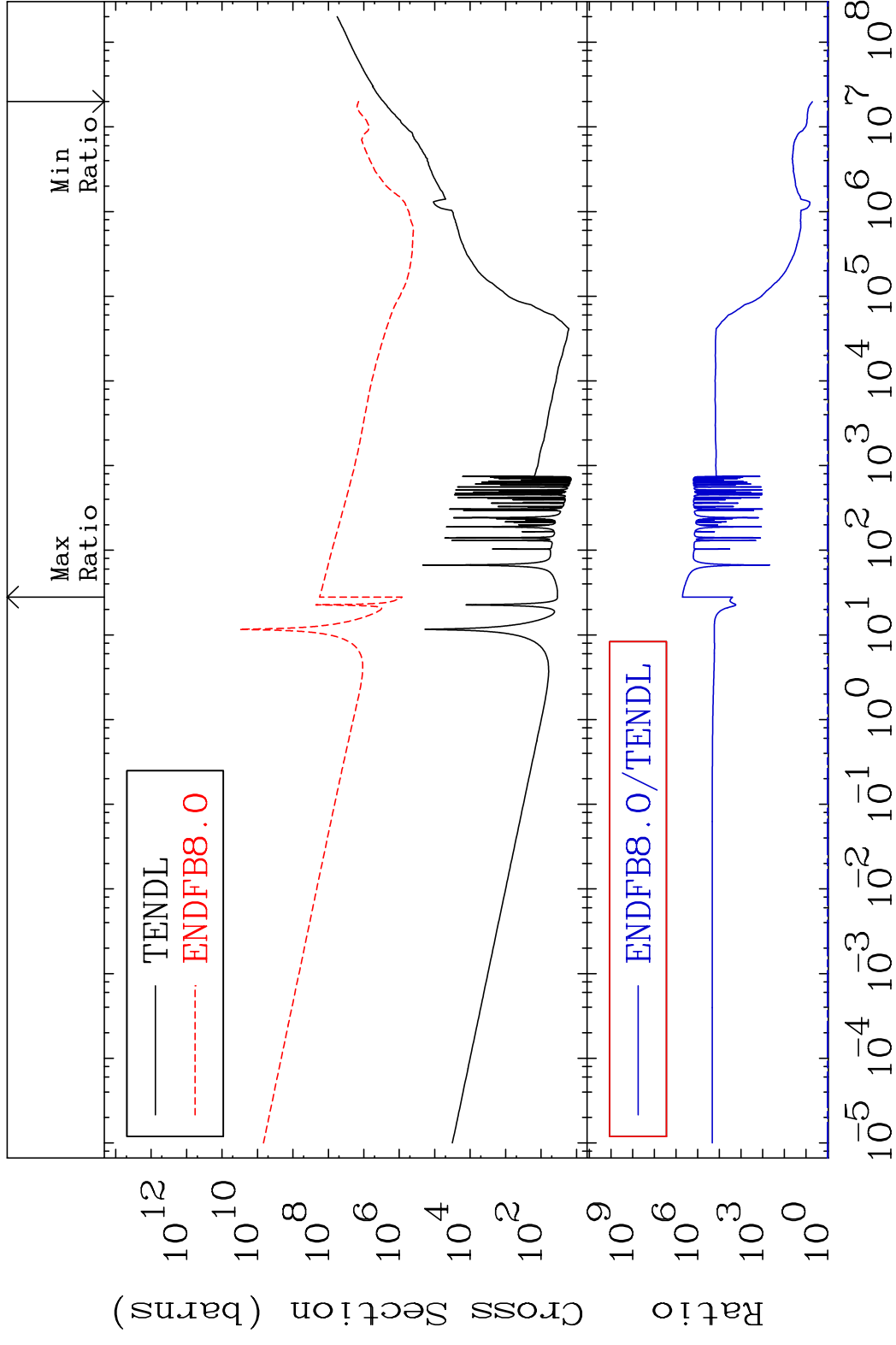


52

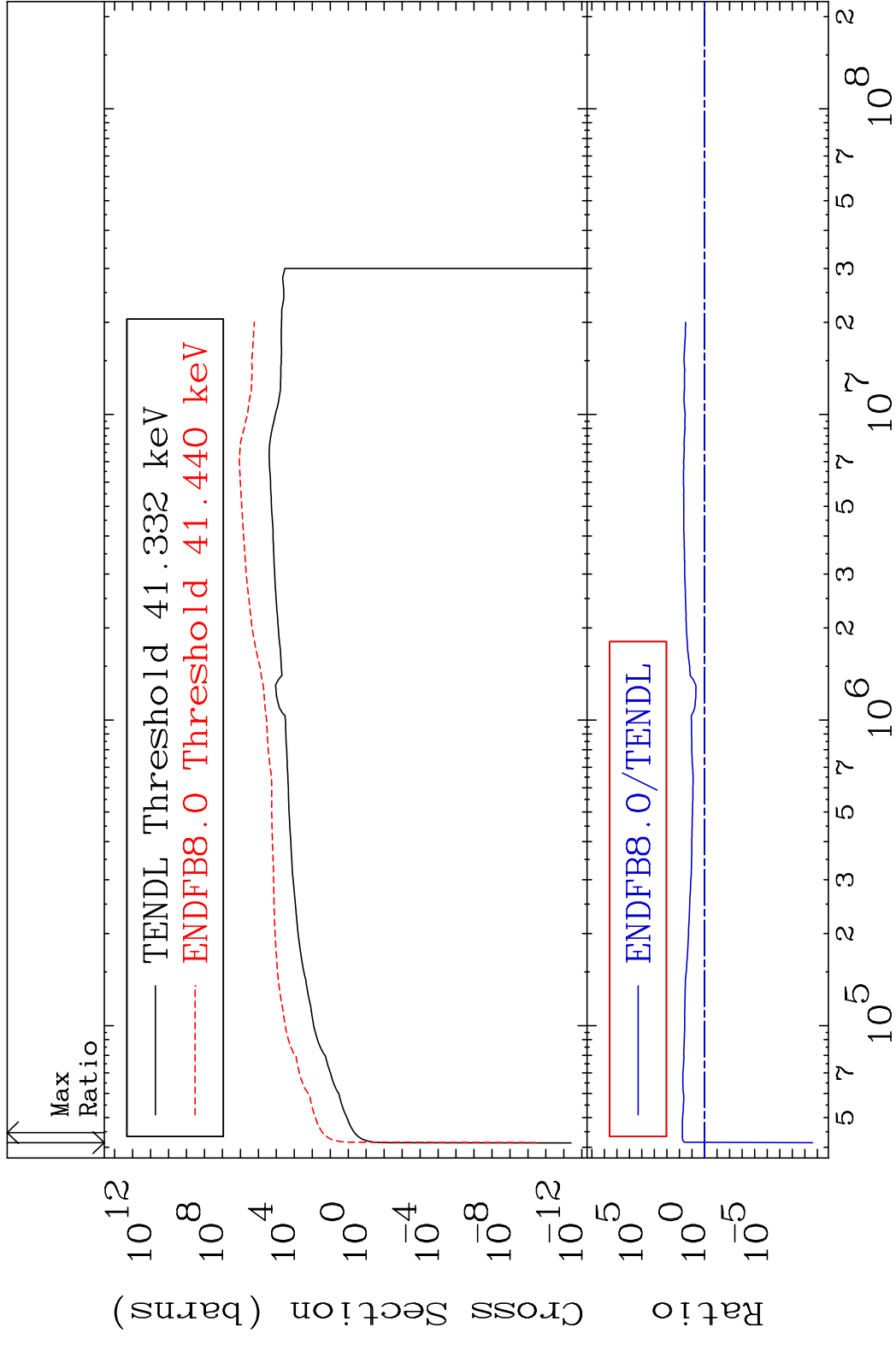
Incident Energy (eV)

41-Nb-94

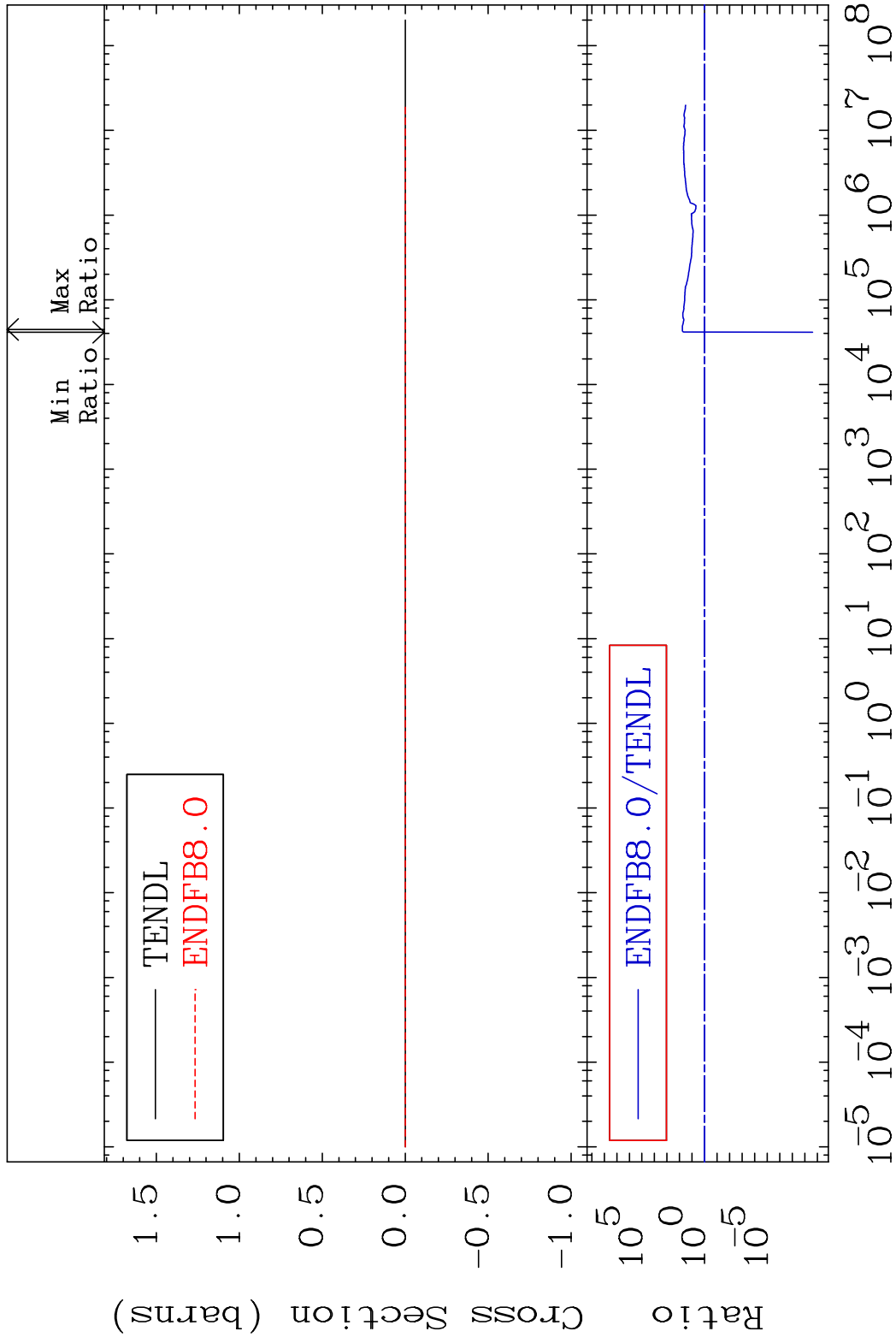
MAT 4128 Kerma non-elastic (all but mt2) 41-Nb-94
 Cross Section 396.7 To 9999. %



MAT 4128 Kerma inelastic (mt51-91) 41-Nb-94
 Cross Section -100.0 To 5814. %

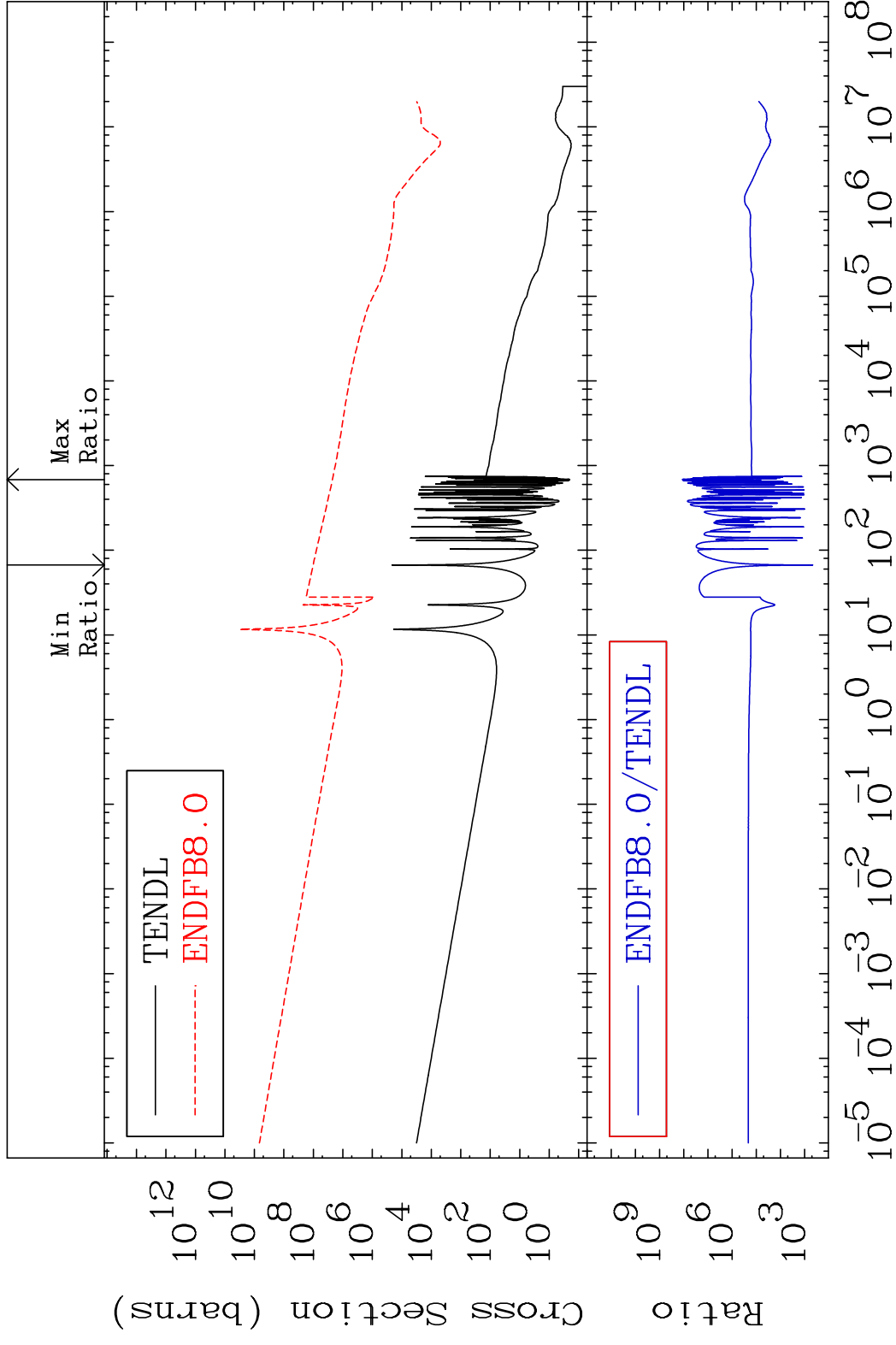


MAT 4128 Kerma fission (mt18 or mt19-20-21-38) 41-Nb-94
 Cross Section -100.0 To 5814. %



MAT 4128

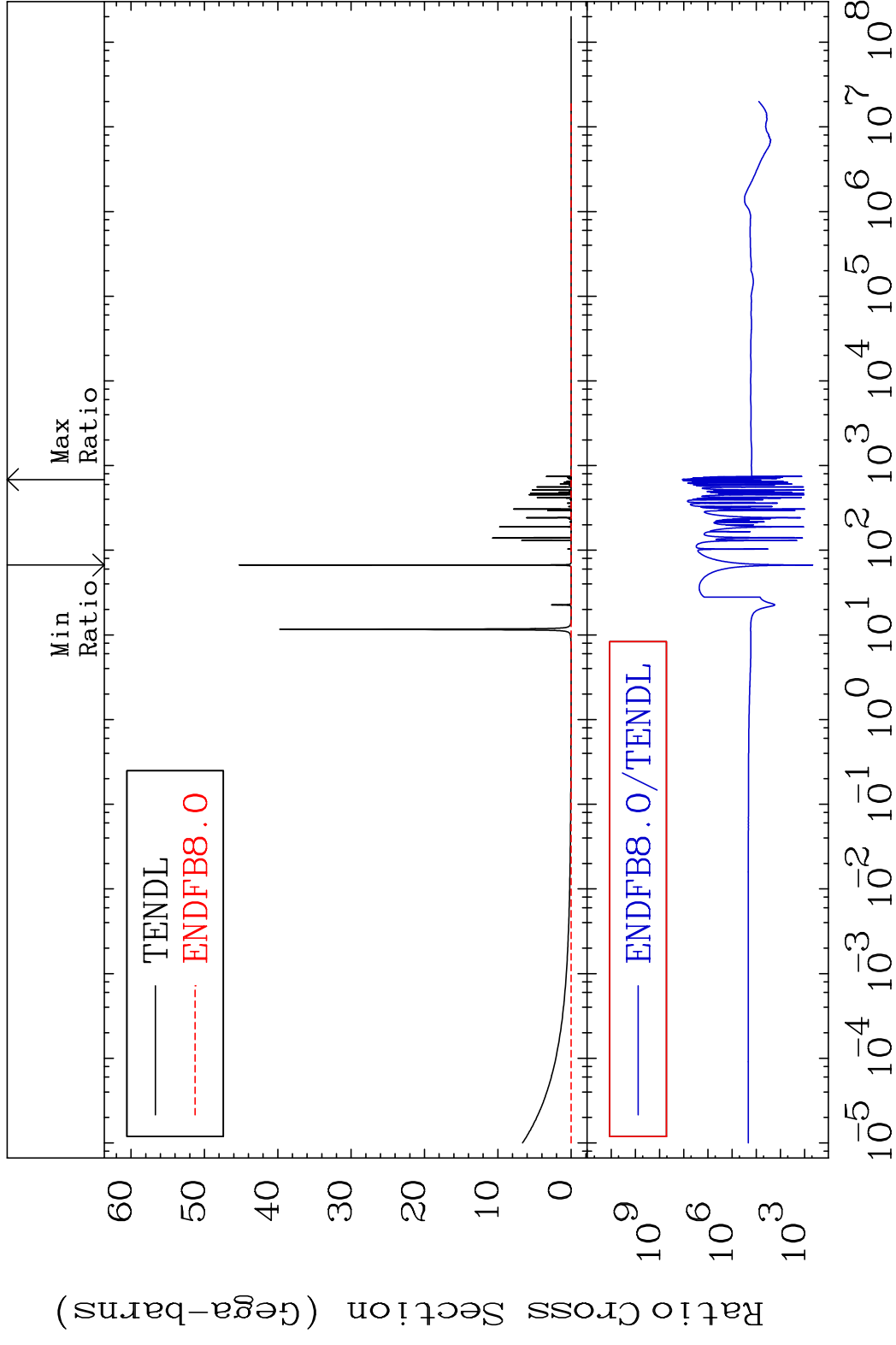
Kerma capture (mt102) 41-Nb-94
Cross Section 9999. To 9999. %



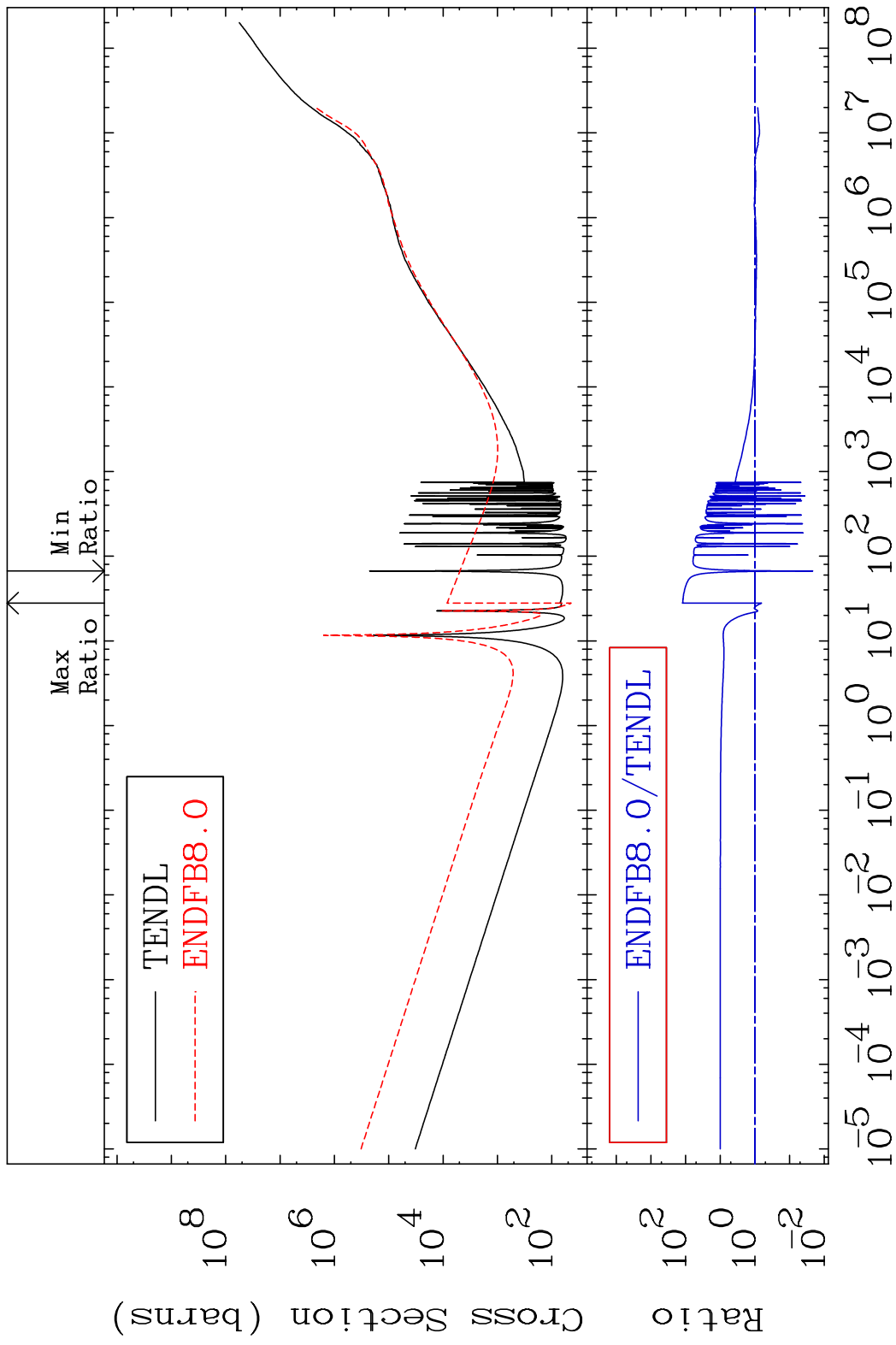
56

Incident Energy (eV) 41-Nb-94

MAT 4128 Total photon (eV-barns) 41-Nb-94
 Cross Section 9999. To 9999. %



MAT 4128 Total kinematic kerma (high limit) 41-Nb-94
 Cross Section -97.82 To 9999. %

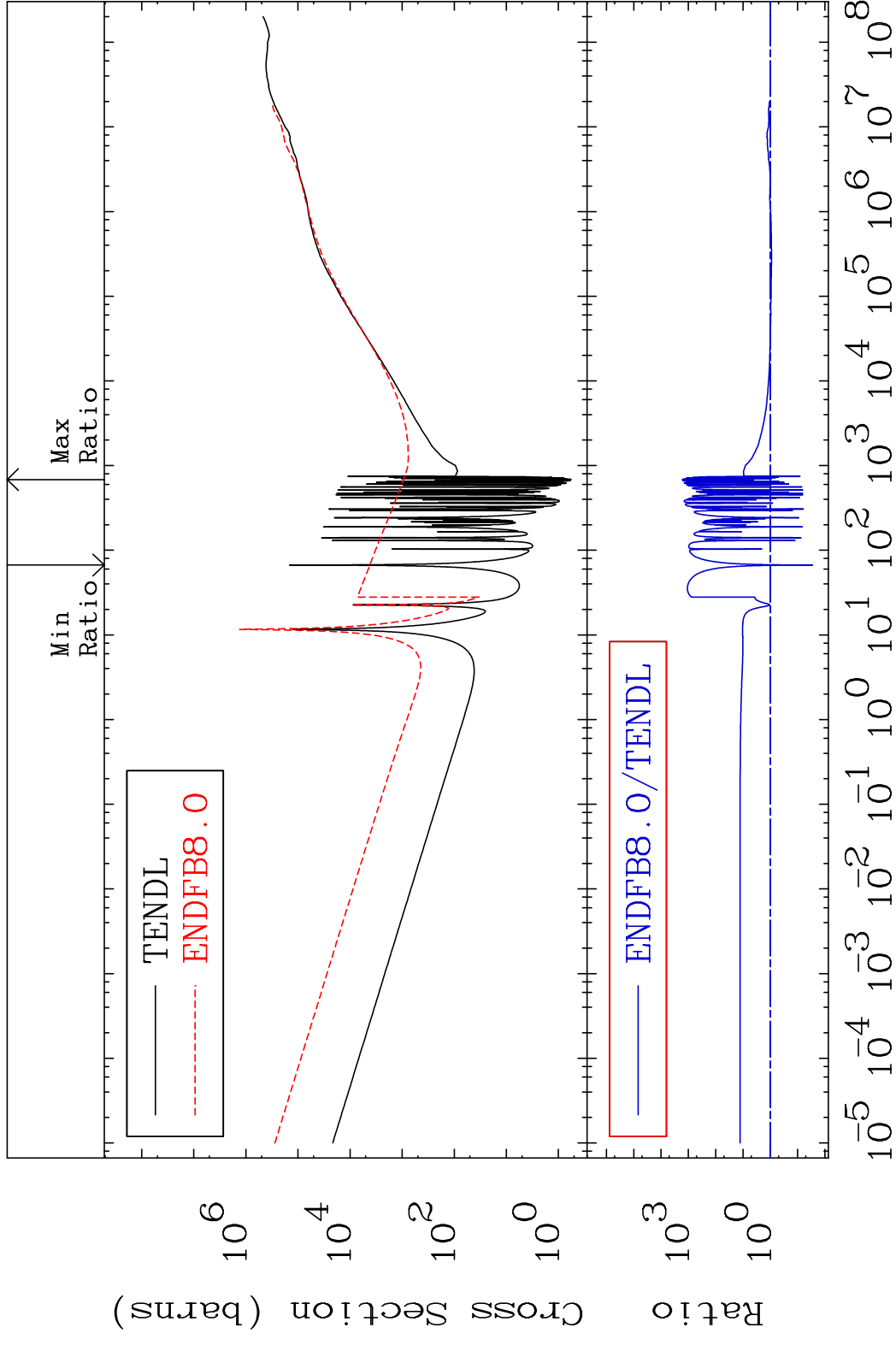


MAT 4128

Dpa total (eV-barns)

41-Nb-94

Cross Section -97.15 To 9999. %



59

Incident Energy (eV)

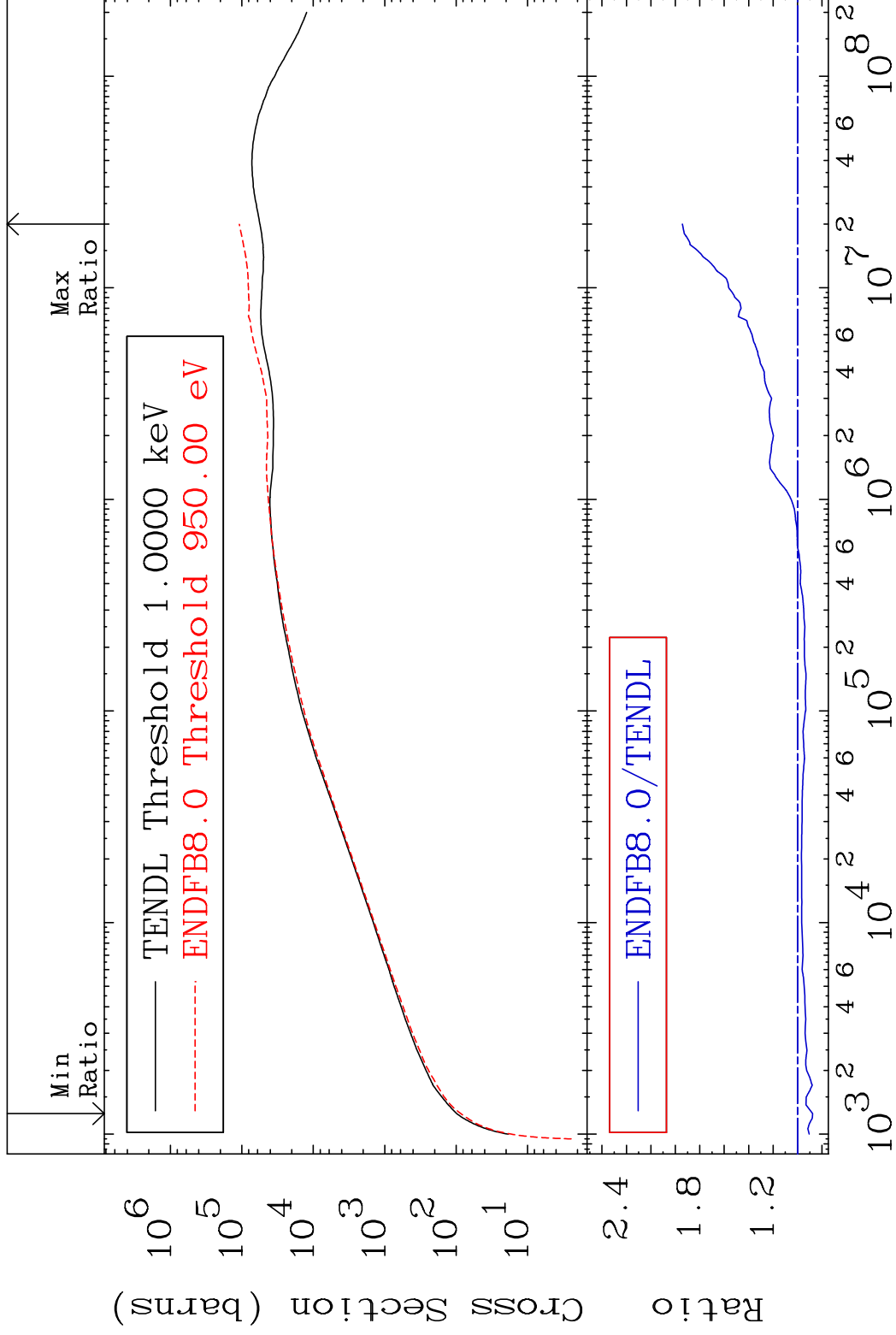
41-Nb-94

MAT 4128

Dpa elastic (mt2)

41-Nb-94

Cross Section -12.27 To 94.24 %

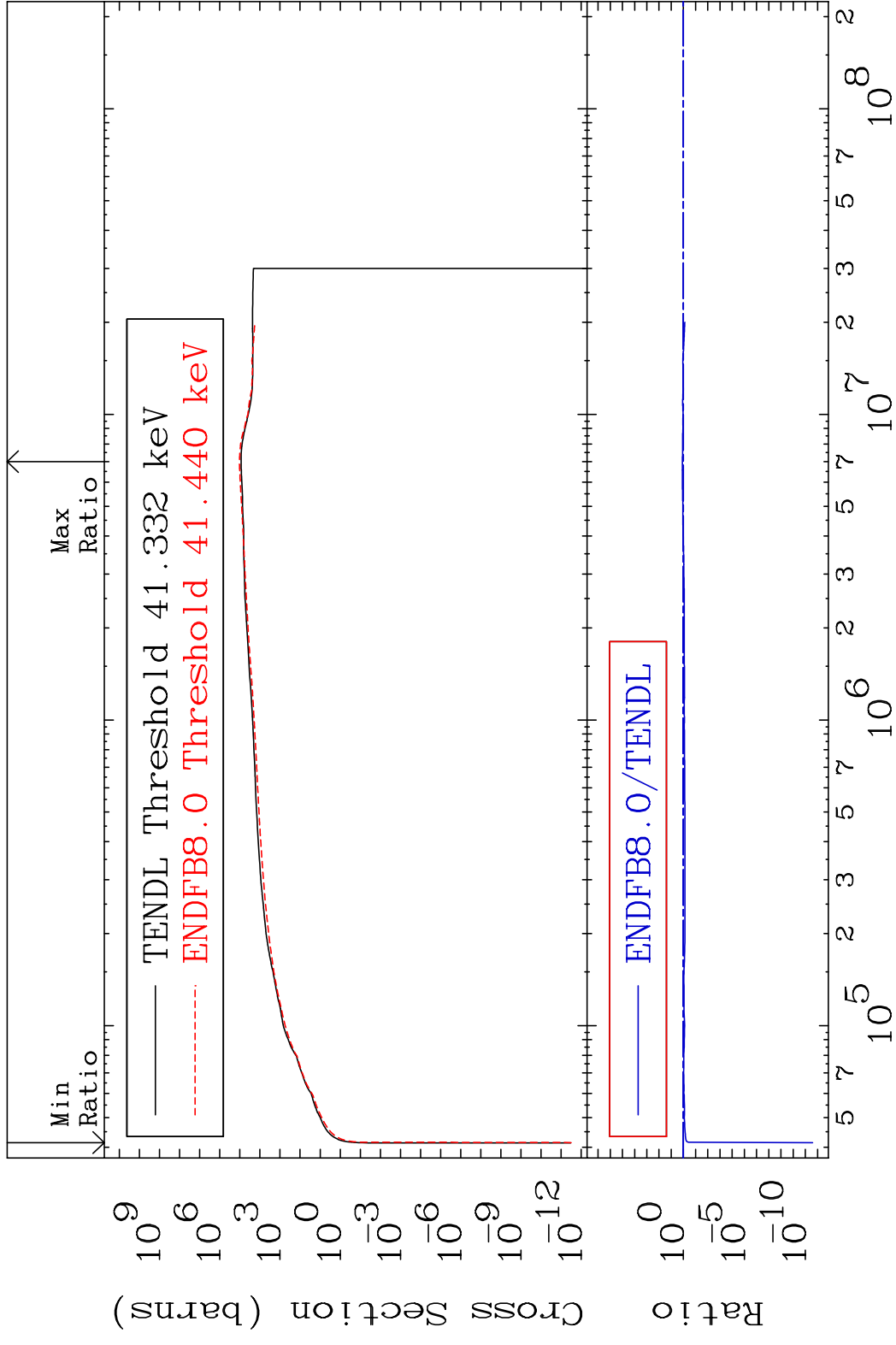


60

Incident Energy (eV)

41-Nb-94

MAT 4128 Dpa inelastic (mt51-91) 41-Nb-94
 Cross Section -100.0 To 21.79 %



MAT 4128 Dpa disappearance (mt102 -120) 41-Nb-94
 Cross Section -97.15 To 9999. %

