

Program Complot
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

U.S.A.

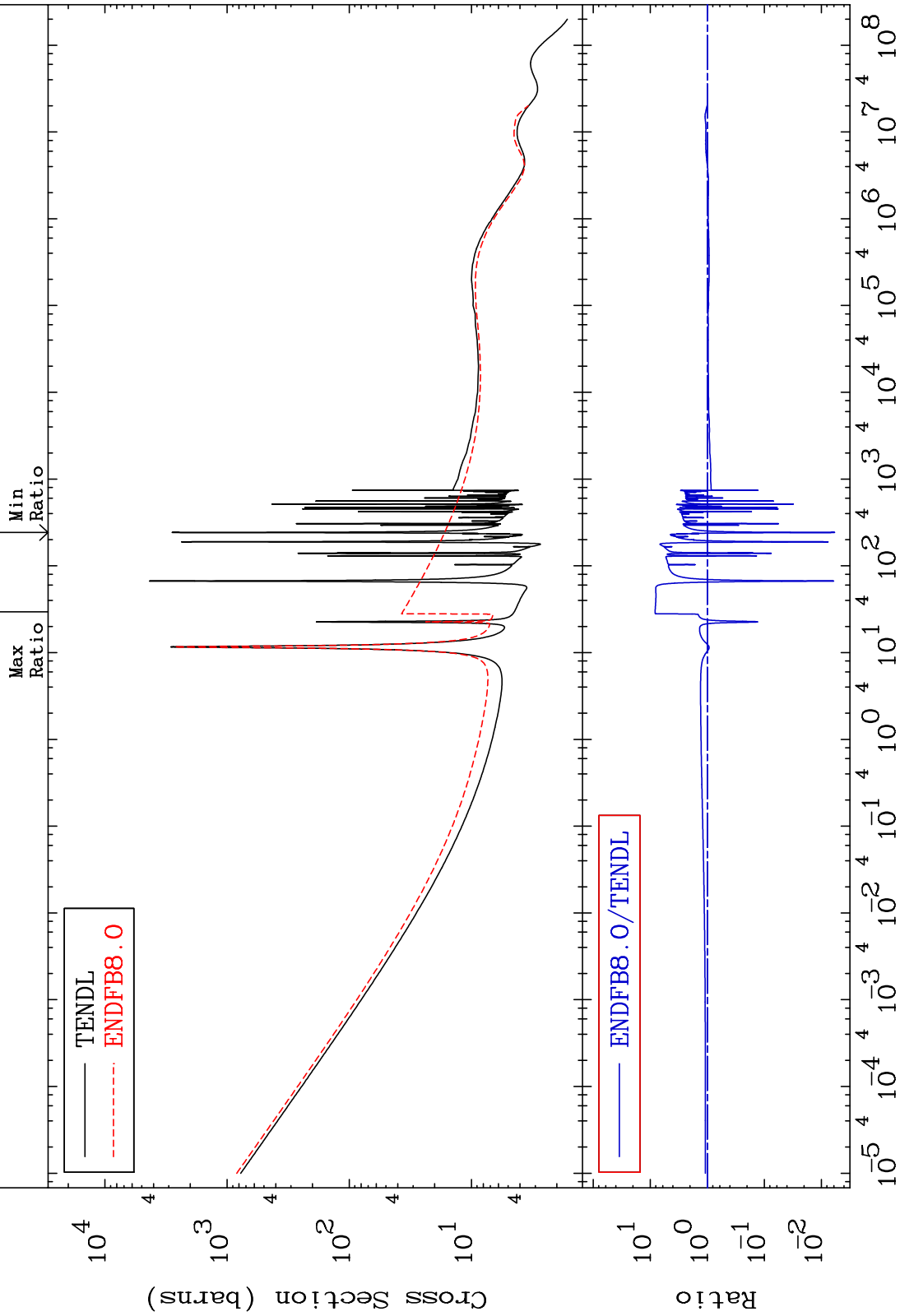
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 4128 41-Nb-94 -99.41 To 717.9 %

Total Cross Section



41-Nb-94

Incident Energy (eV)

1

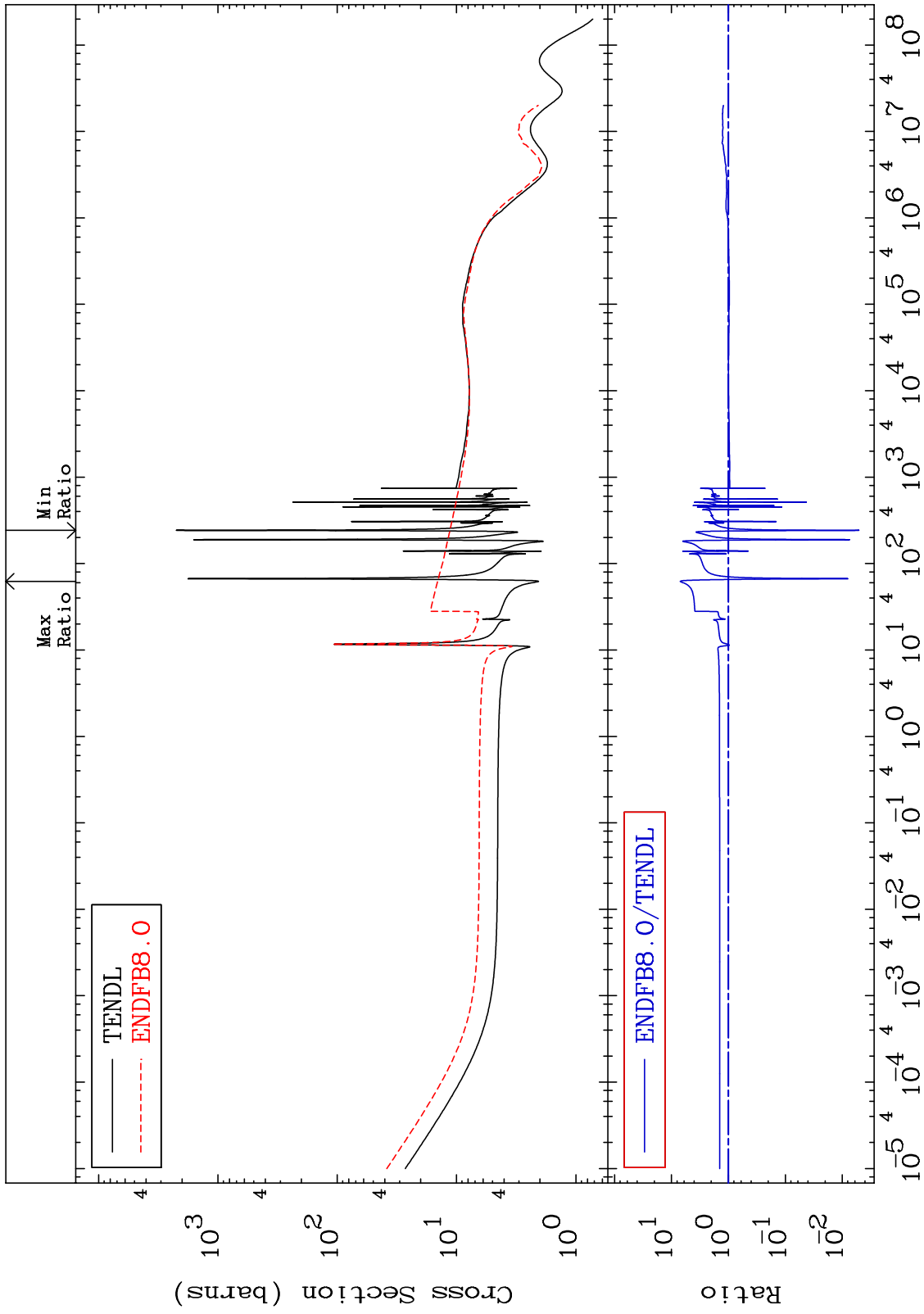
MAT 4128

Elastic

41-Nb-94

Cross Section

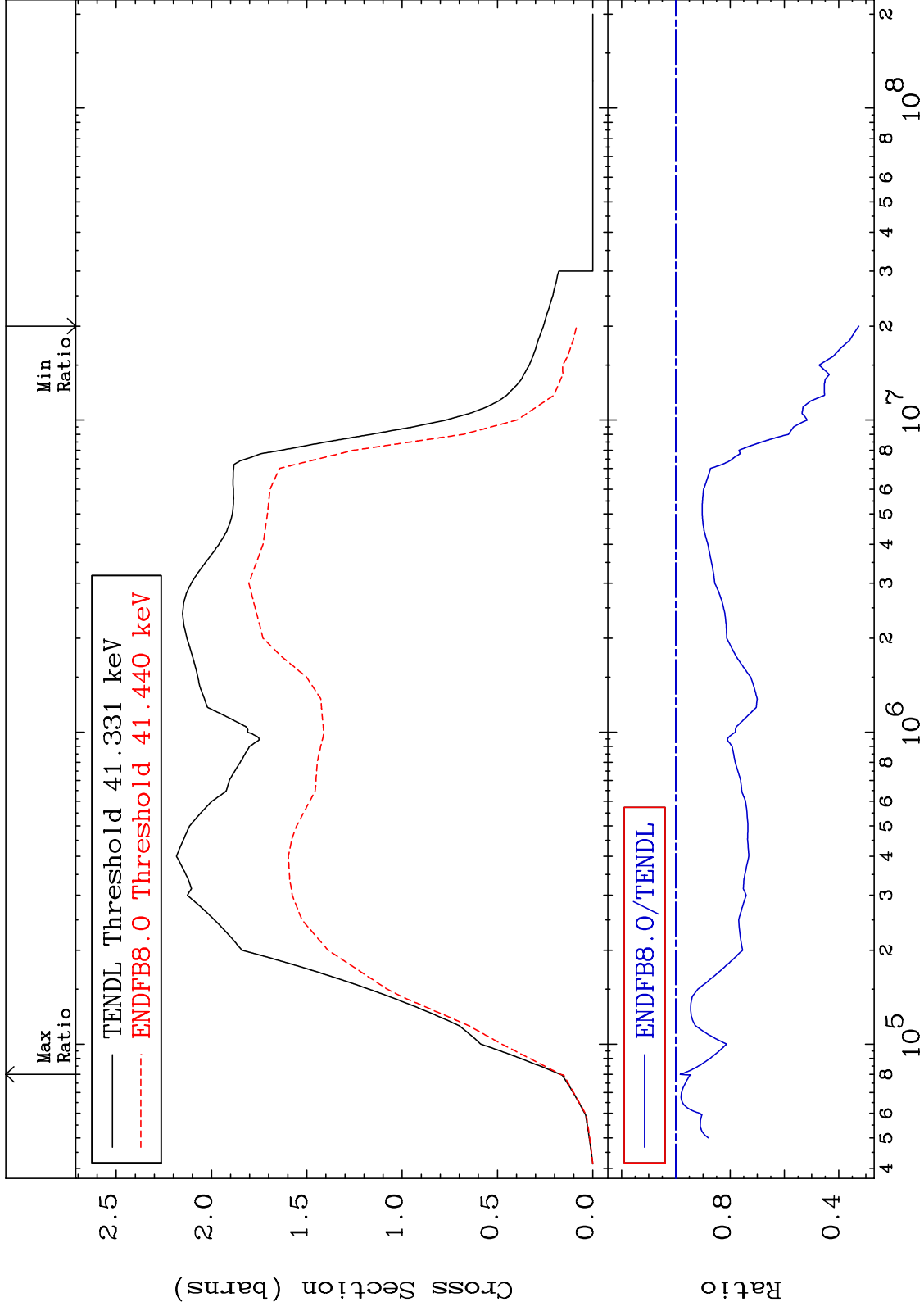
-99.49 To 602.3 %



MAT 4128

Inelastic
Cross Section

41-Nb-94
-67.42 To -1.617%

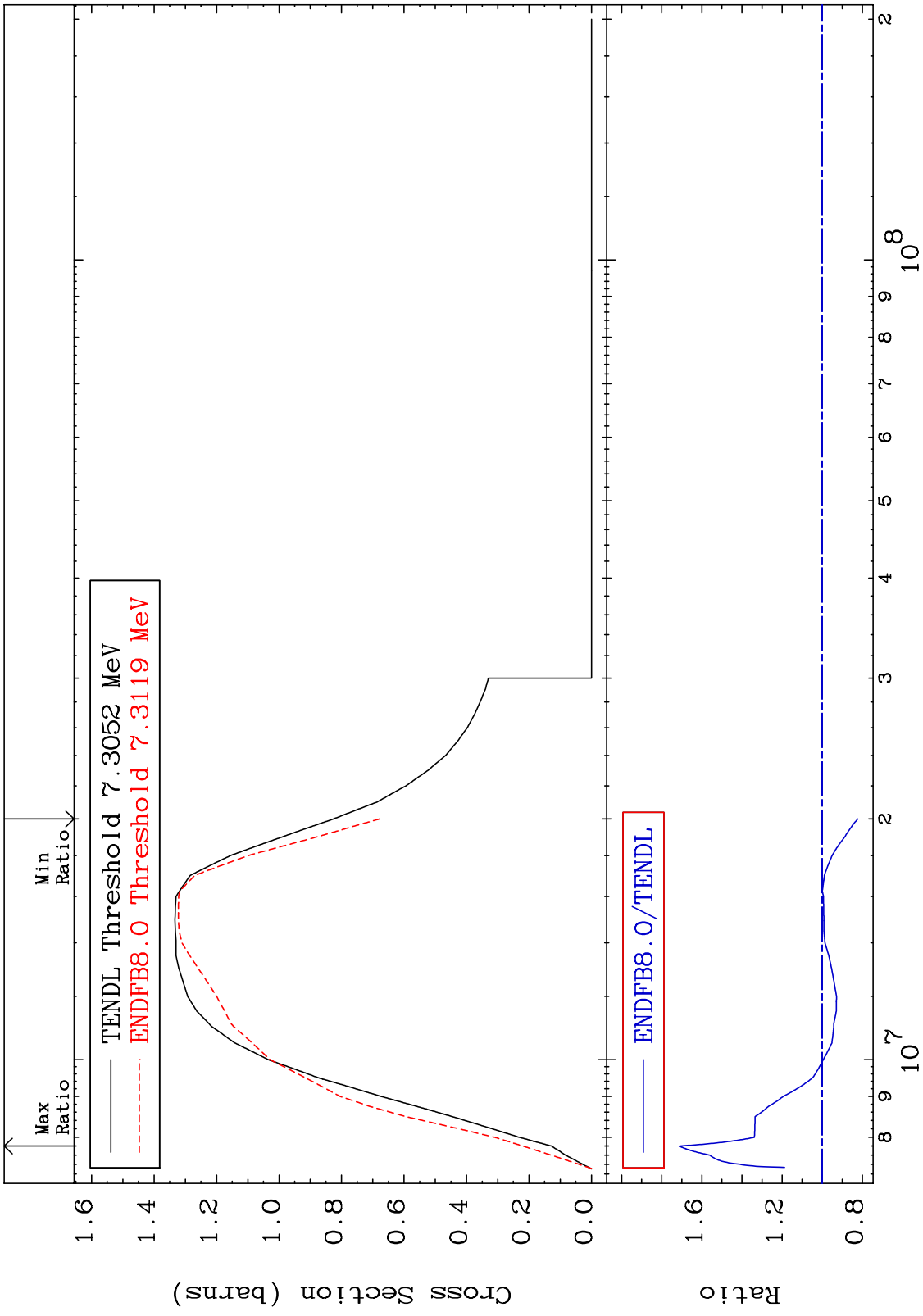


41-Nb-94

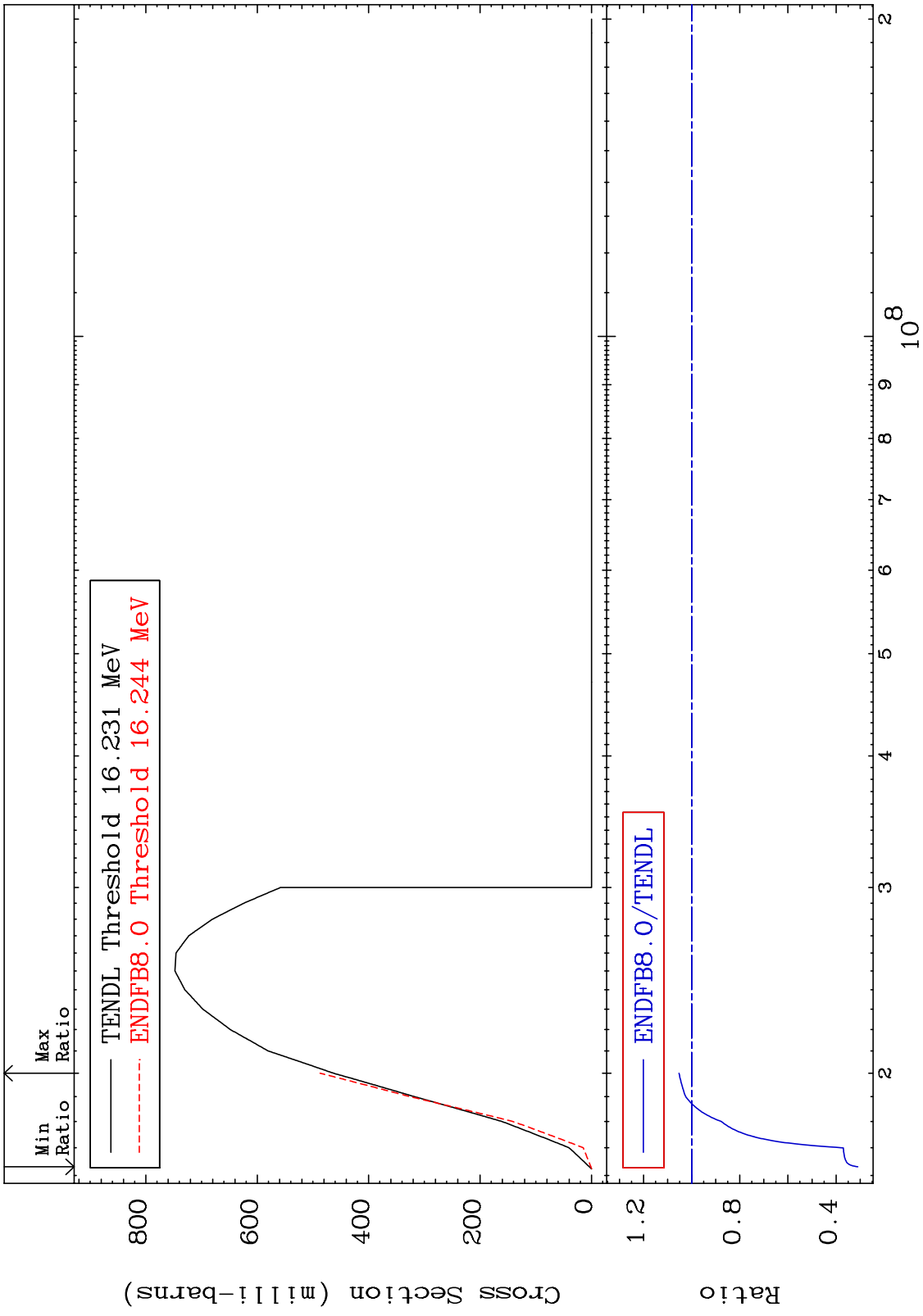
Incident Energy (eV)

3

MAT 4128 (n,2n) Cross Section 41-Nb-94 -17.78 To 71.37 %

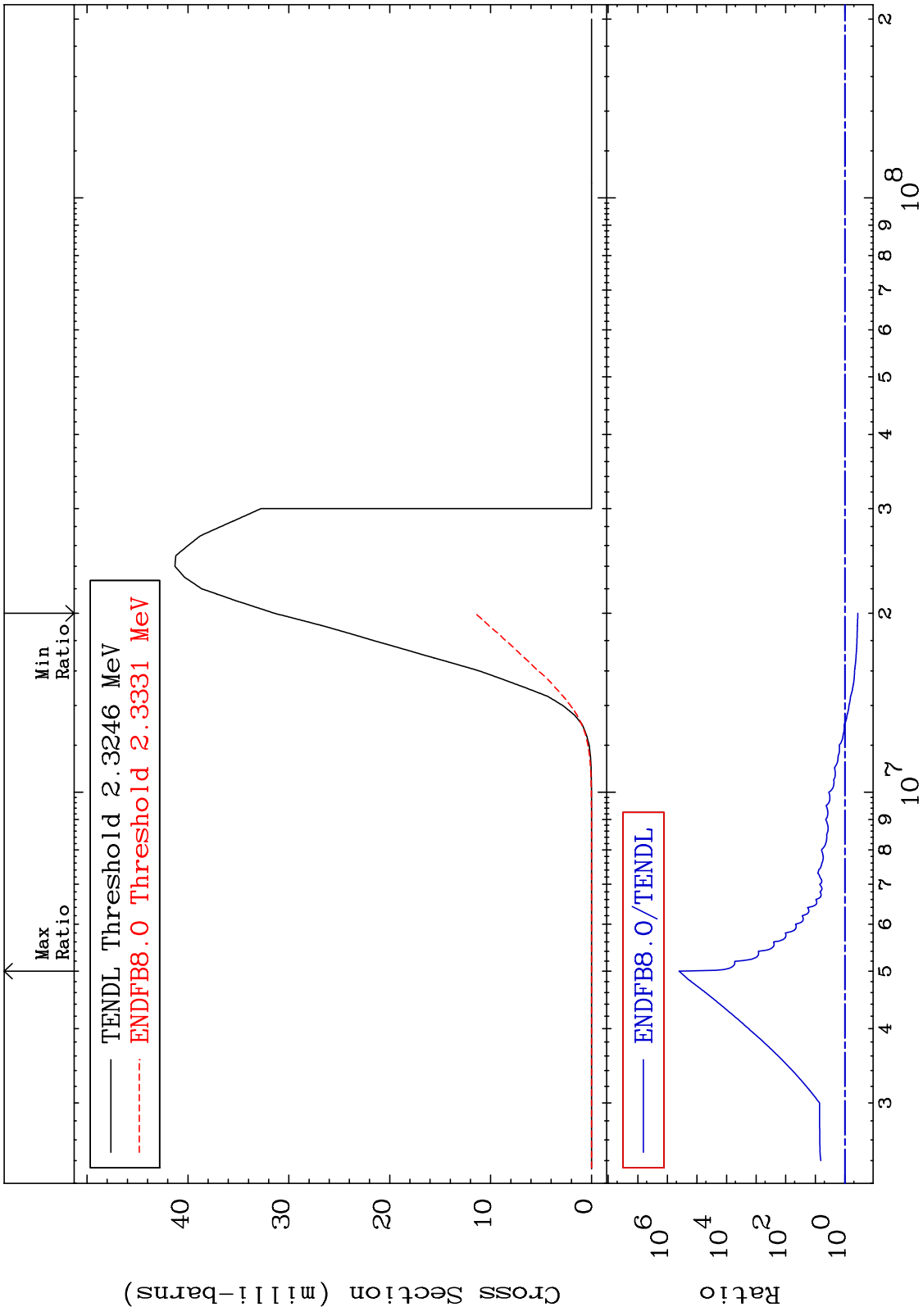


MAT 4128 (n,3n) Cross Section 41-Nb-94 -69.05 To 5.248 %

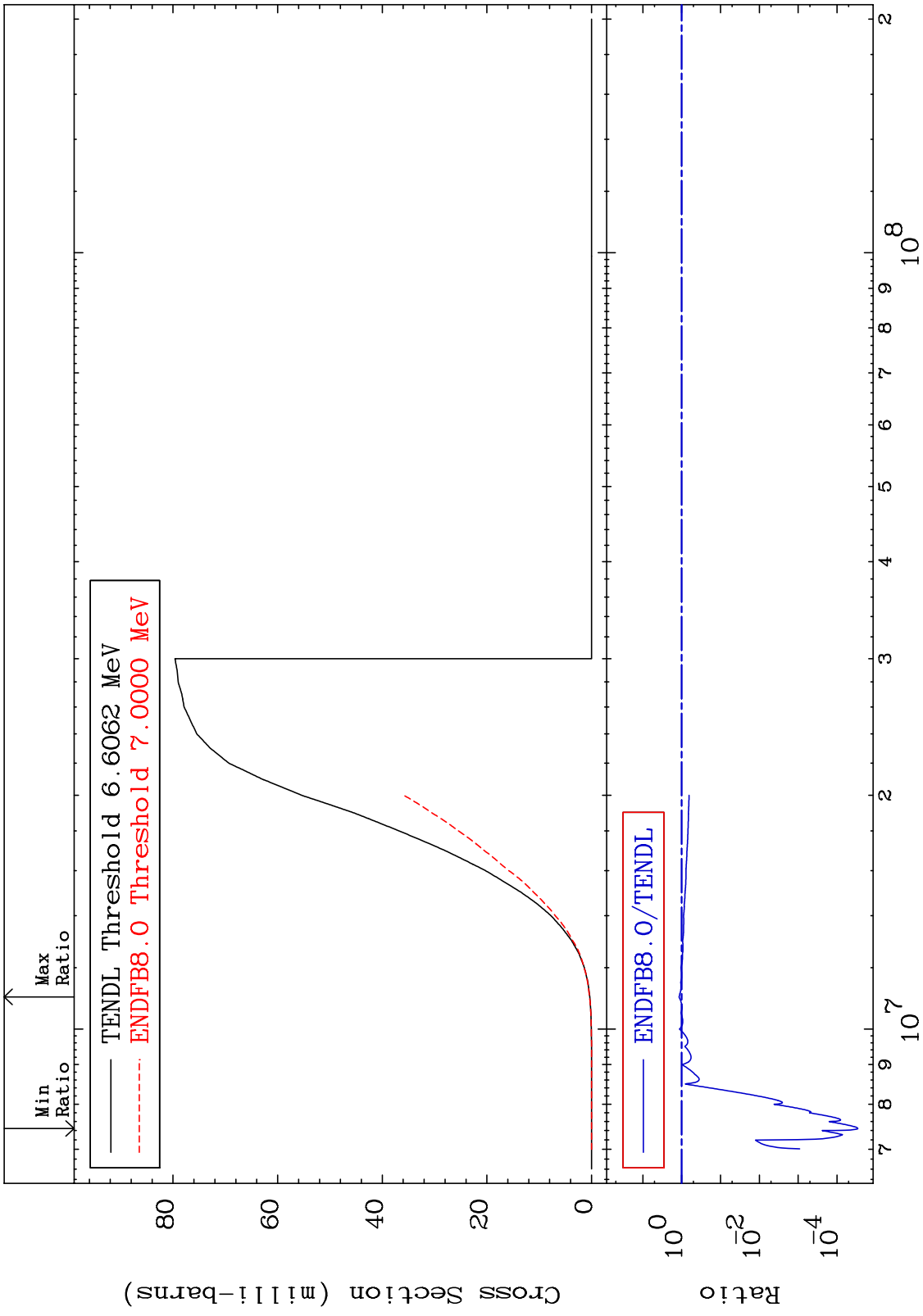


5 41-Nb-94

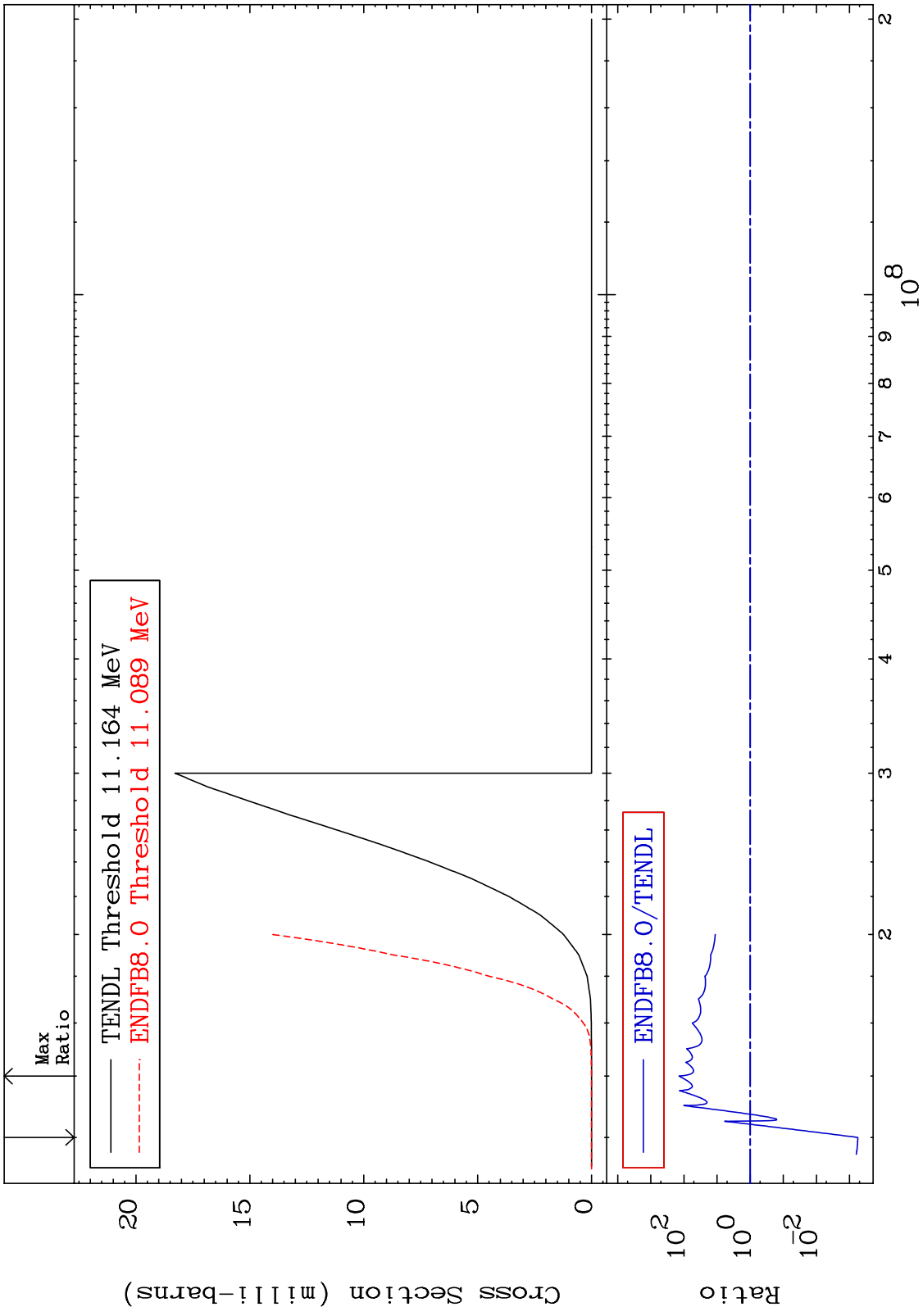
MAT 4128 $(n, n') \alpha$ 41-Nb-94
 Cross Section -63.30 To 9999. %

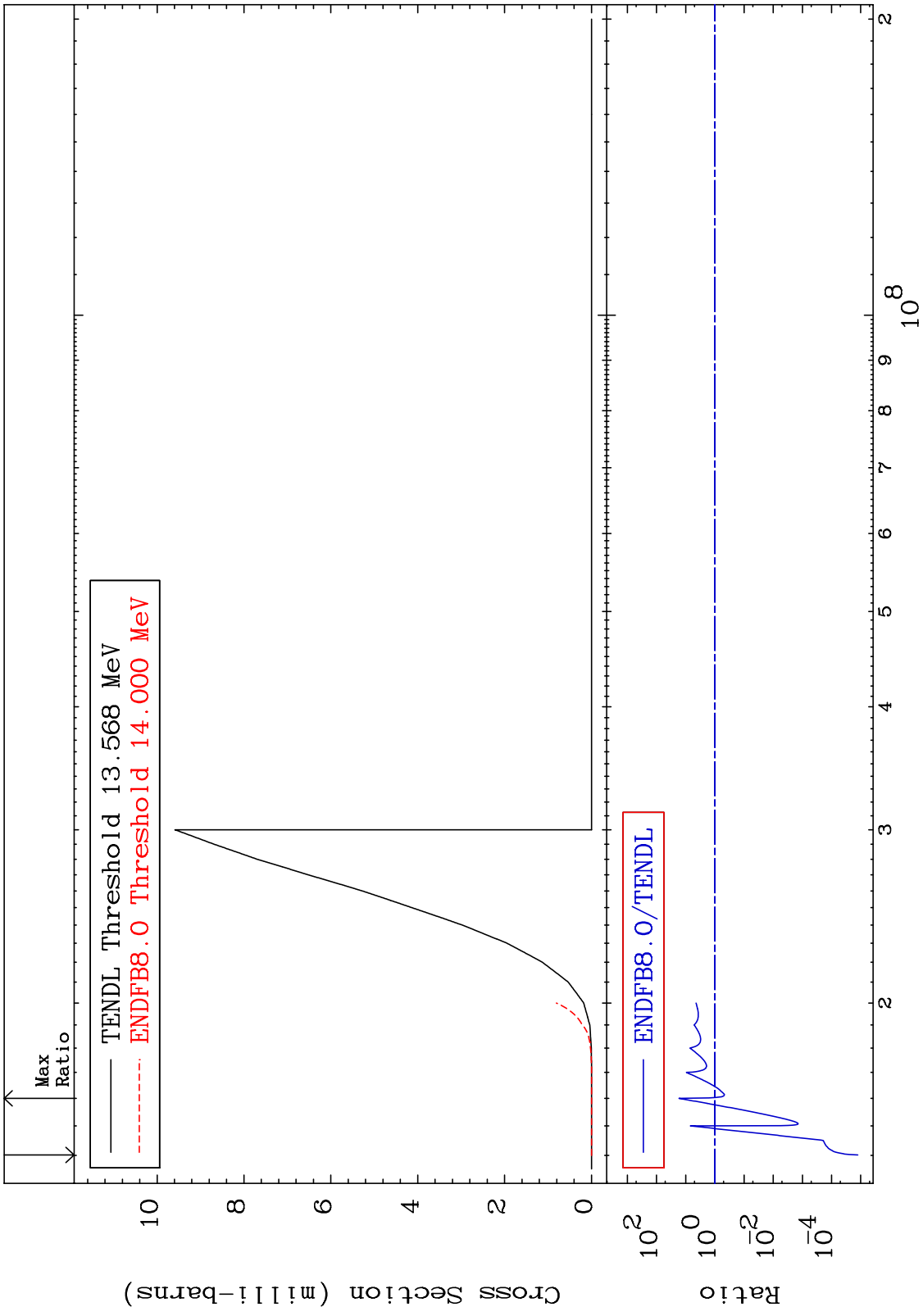


MAT 4128 (n,n') p 41-Nb-94
 Cross Section -100.0 To 17.09 %

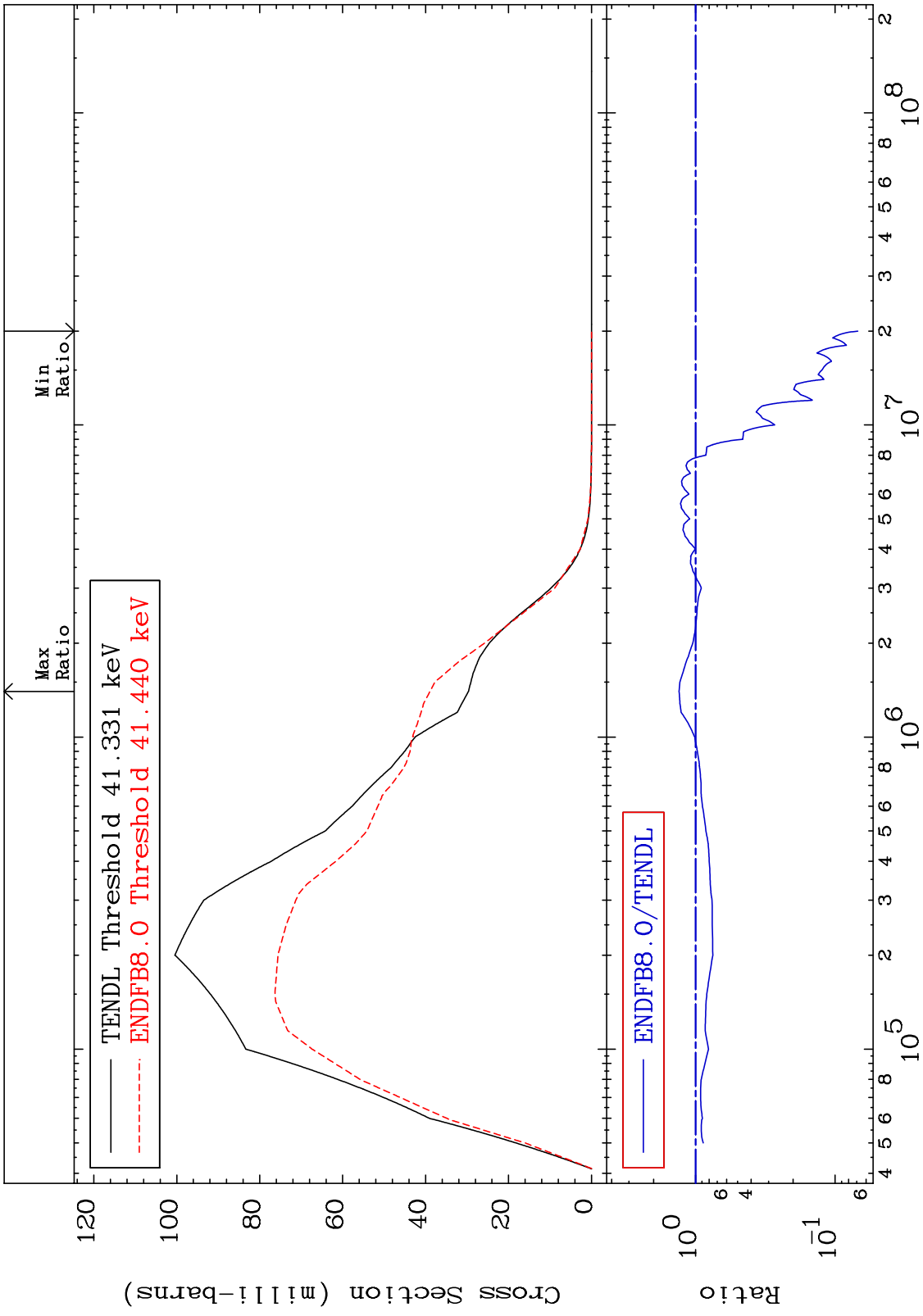


7 Incident Energy (eV) 41-Nb-94



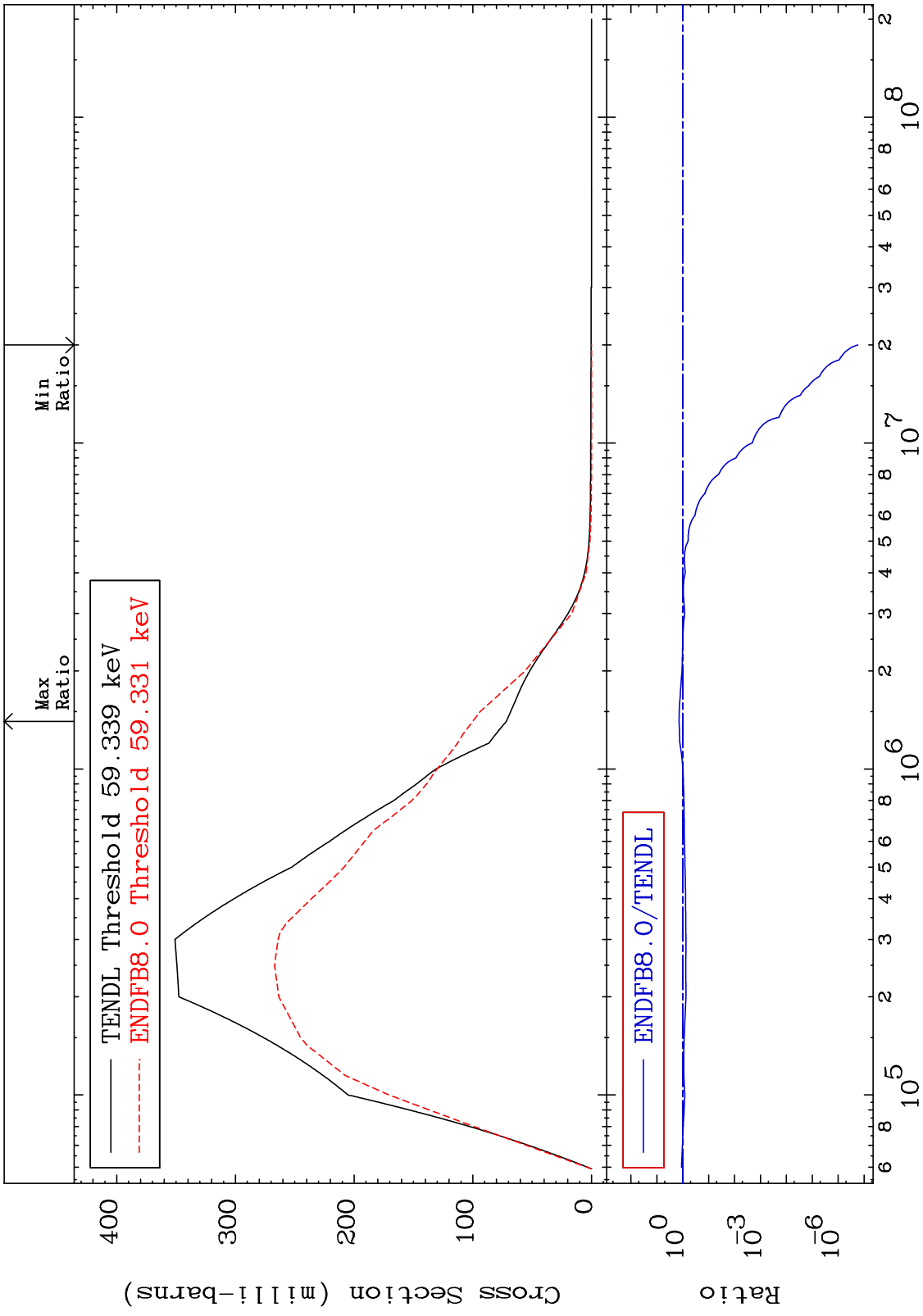


MAT 4128 MT= 51 (n,n') Level Cross Section 41-Nb-94 -93.12 To 31.35 %



10 41-Nb-94

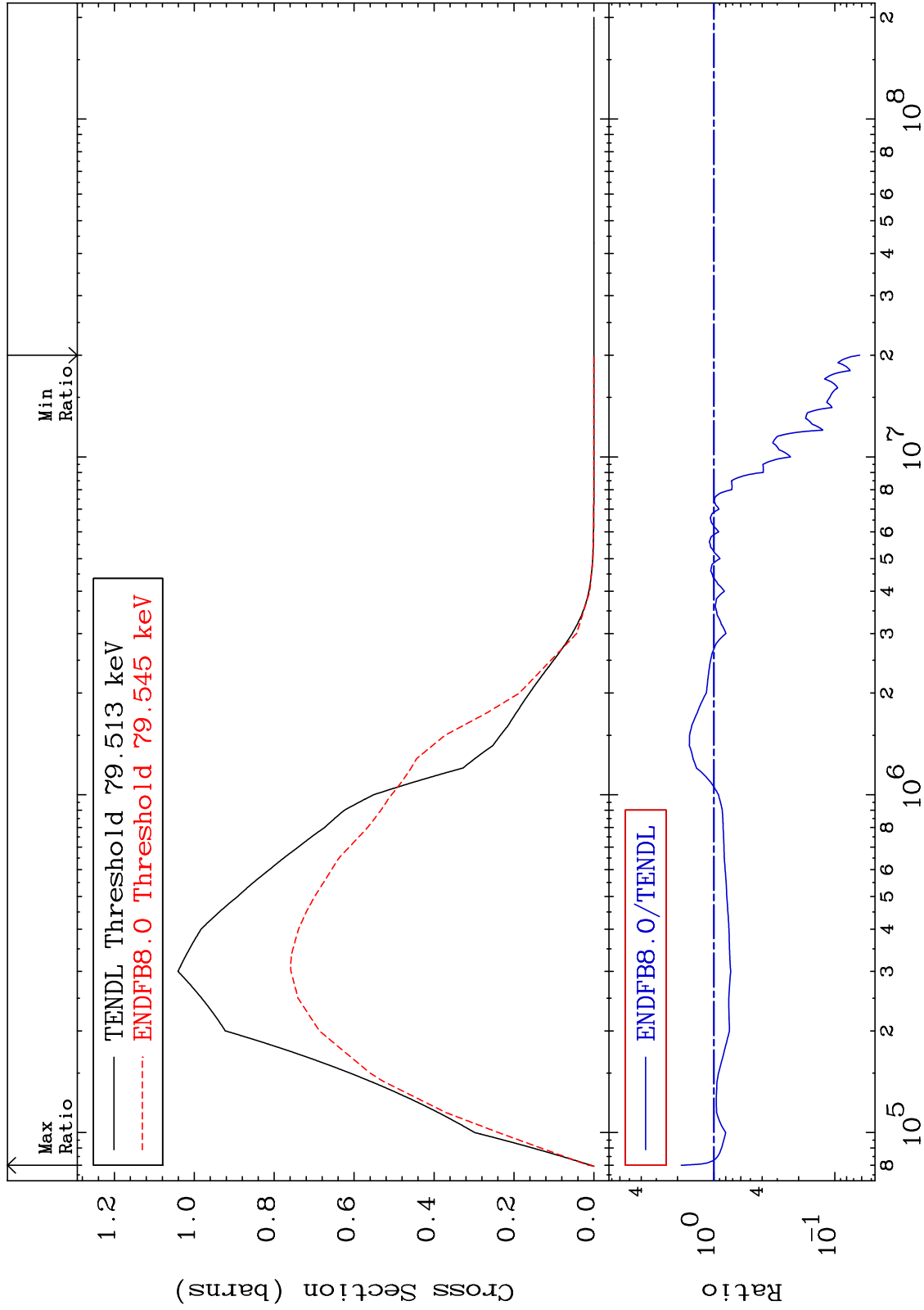
MAT 4128 MT= 52 (n,n') Level Cross Section -100.0 To 39.54 % 41-Nb-94



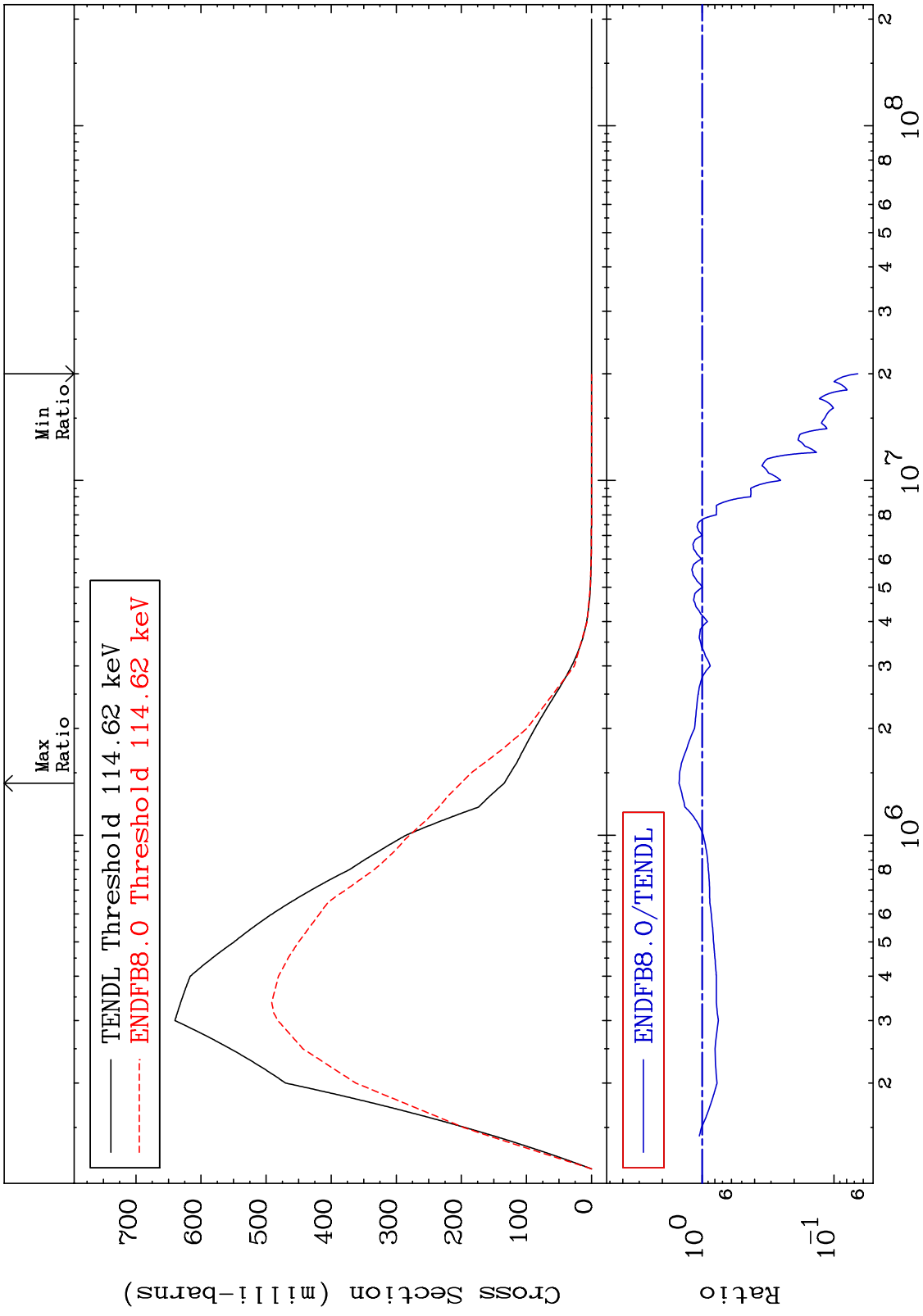
MAT 4128

MT= 53 (n,n') Level
Cross Section

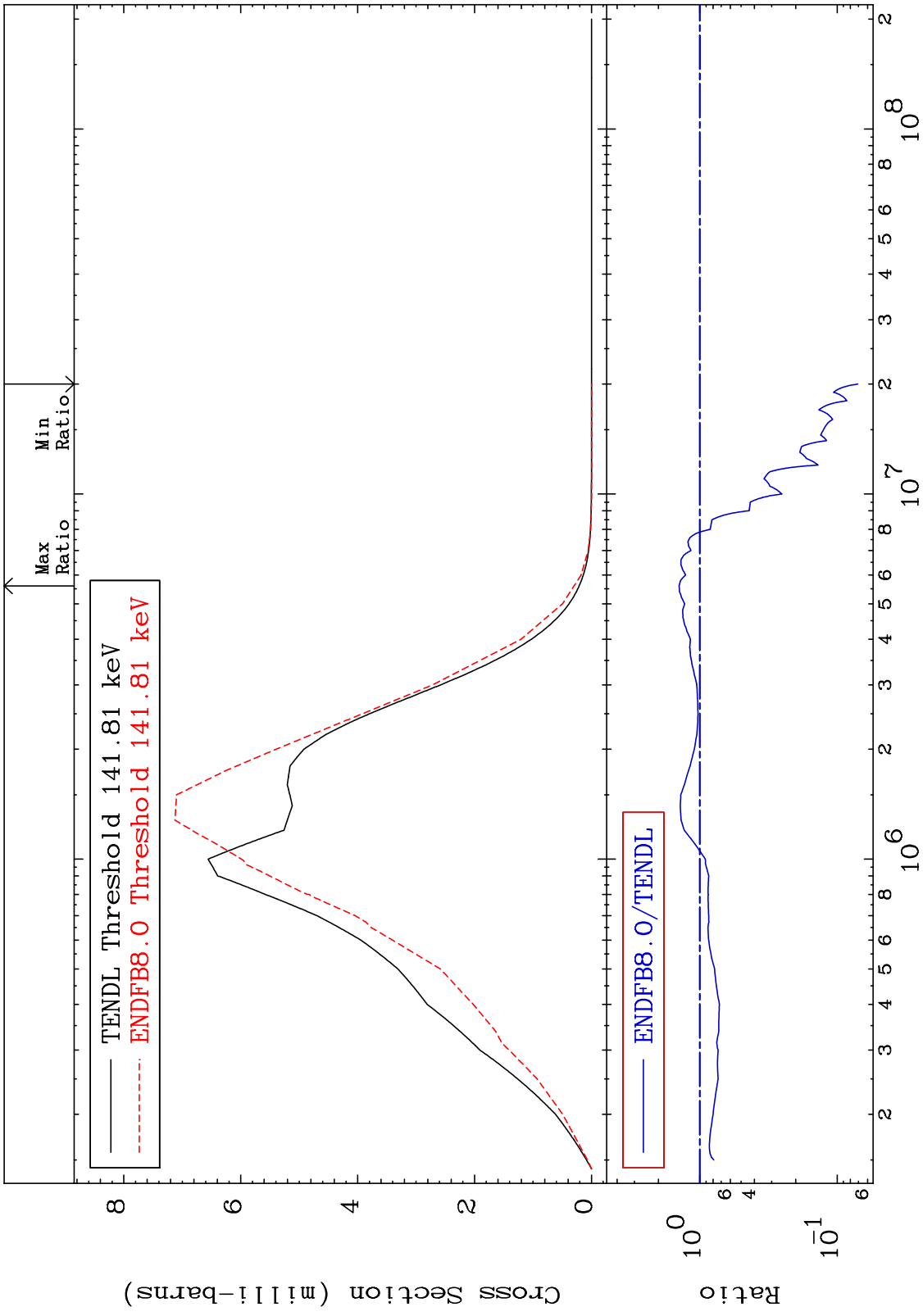
41-Nb-94
-93.77 To 86.43 %



MAT 4128 MT= 54 (n,n') Level Cross Section 41-Nb-94 -93.42 To 49.63 %



MAT 4128 MT= 55 (n,n') Level Cross Section 41-Nb-94 -92.93 To 41.69 %

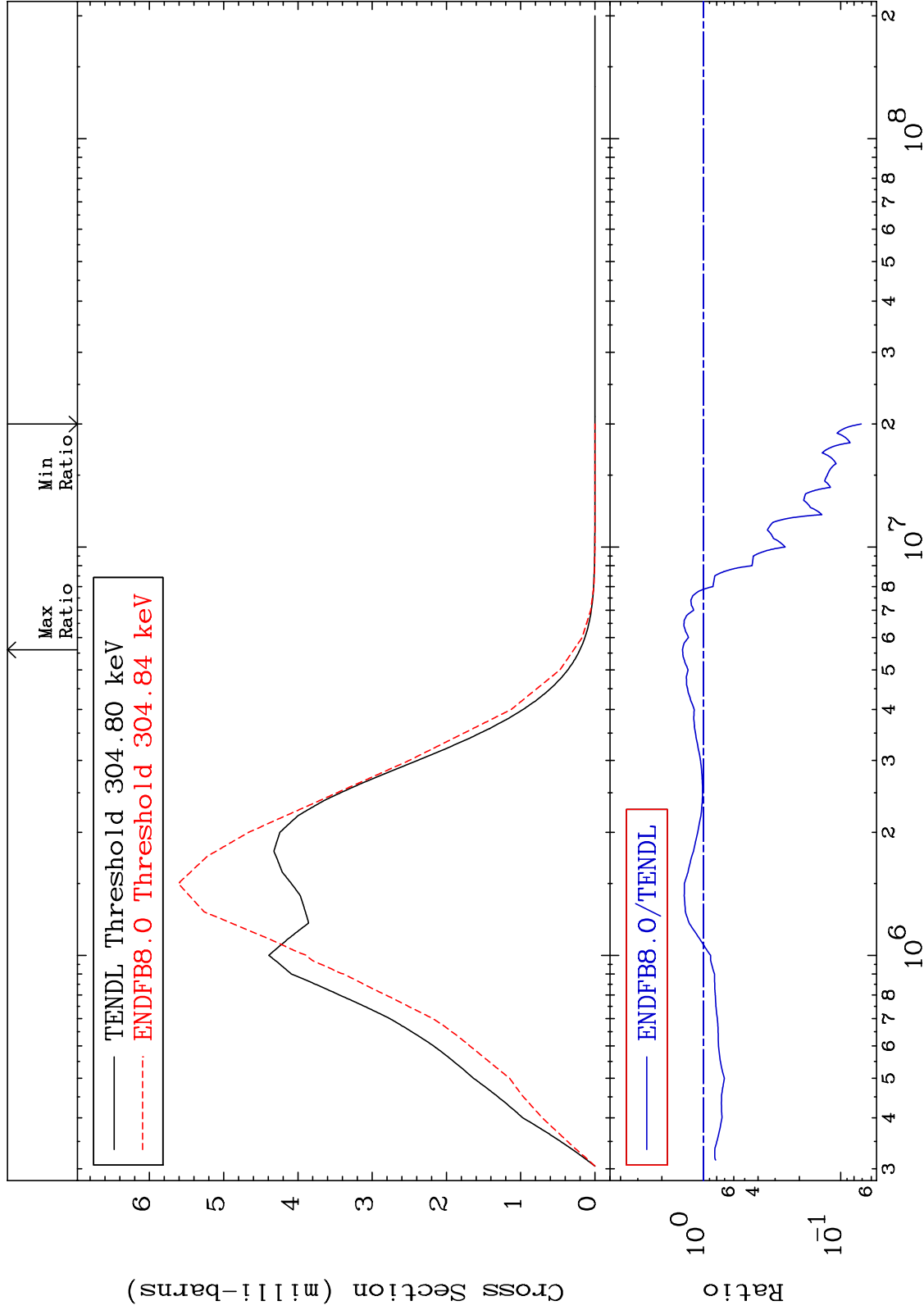


14 41-Nb-94

MAT 4128

MT= 56 (n,n') Level
Cross Section

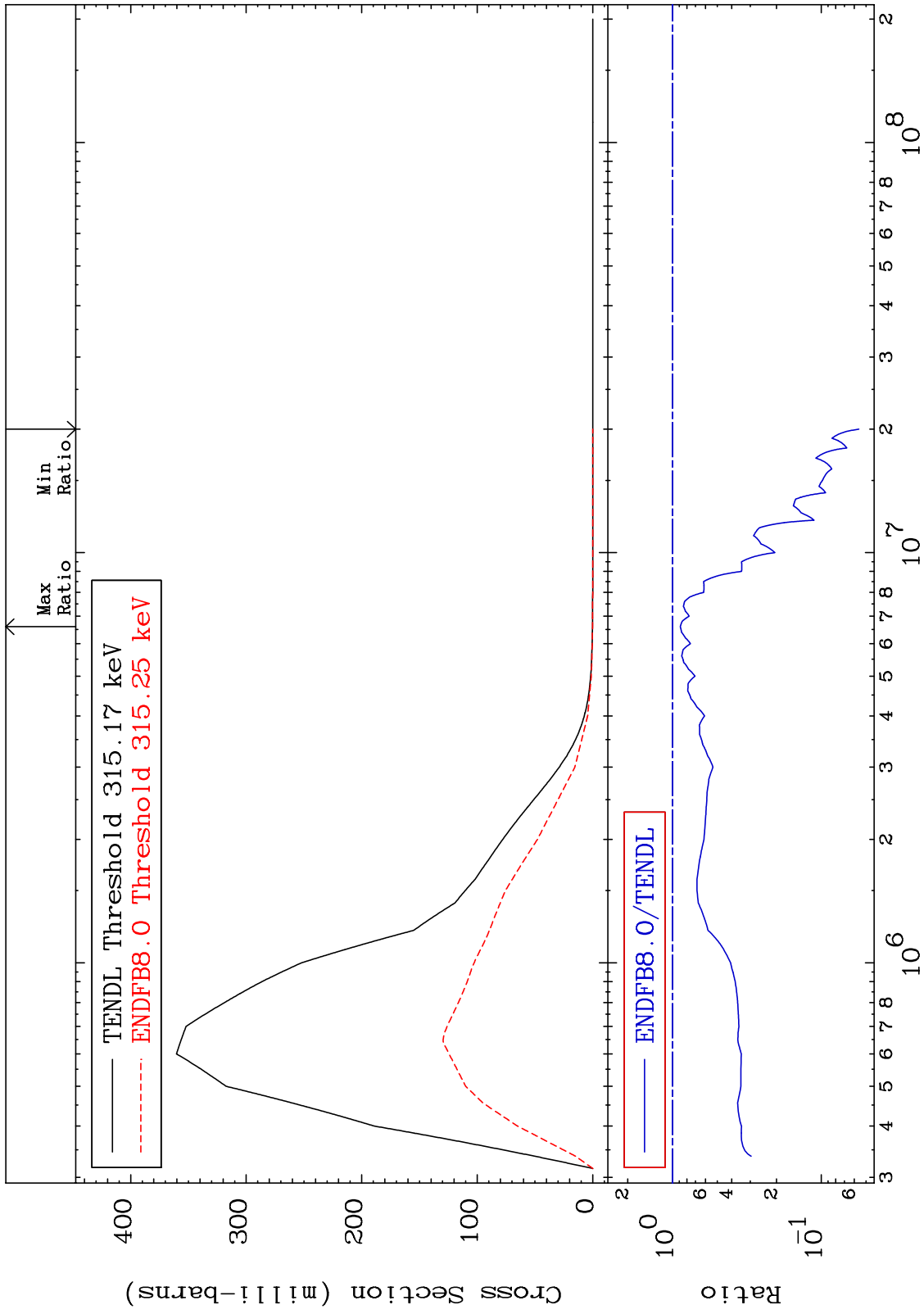
41-Nb-94
-92.91 To 41.82 %



MAT 4128

MT= 57 (n,n') Level
Cross Section

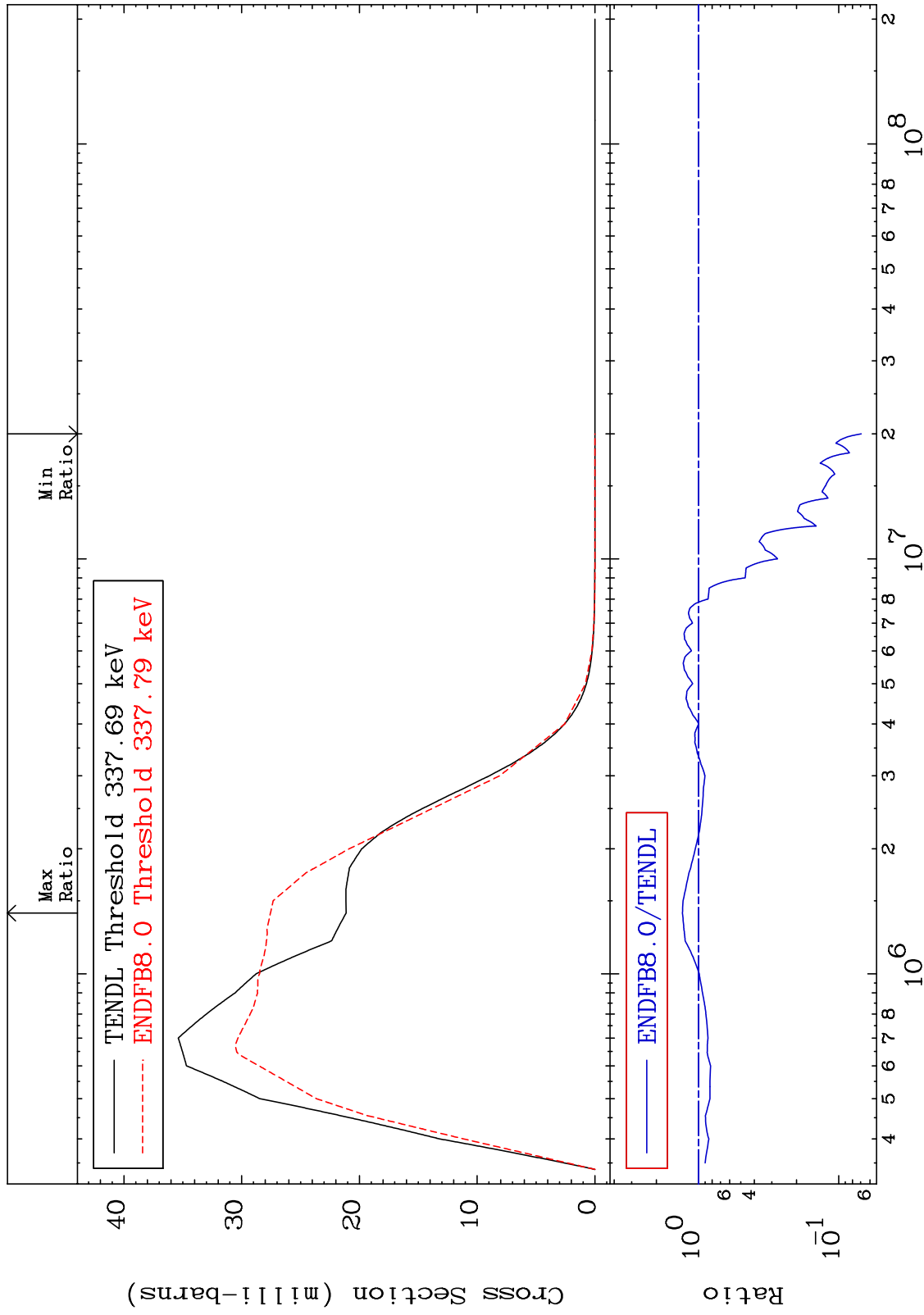
41-Nb-94
-94.41 To -11.27%



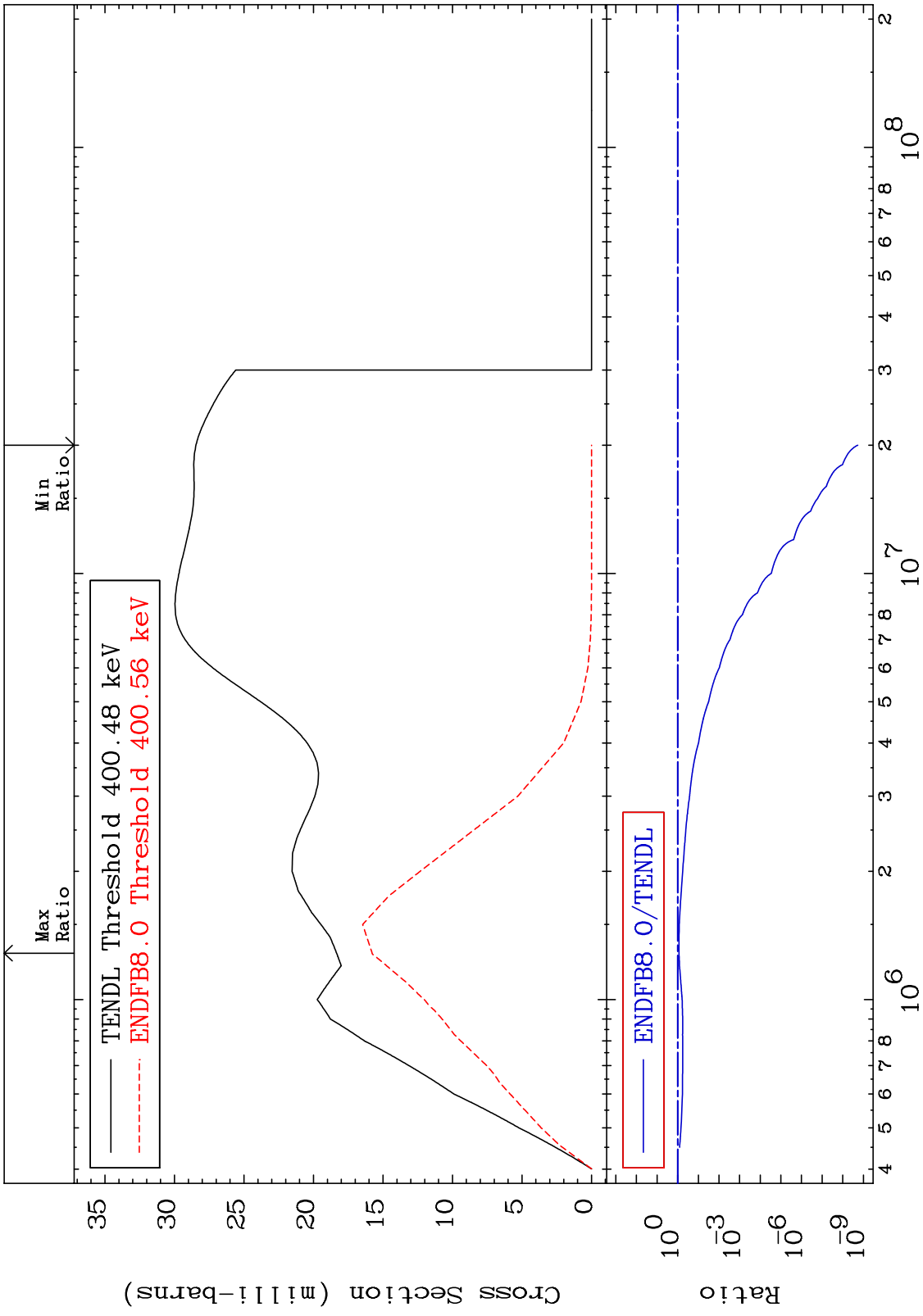
MAT 4128

MT= 58 (n,n') Level
Cross Section

41-Nb-94
-93.09 To 30.39 %

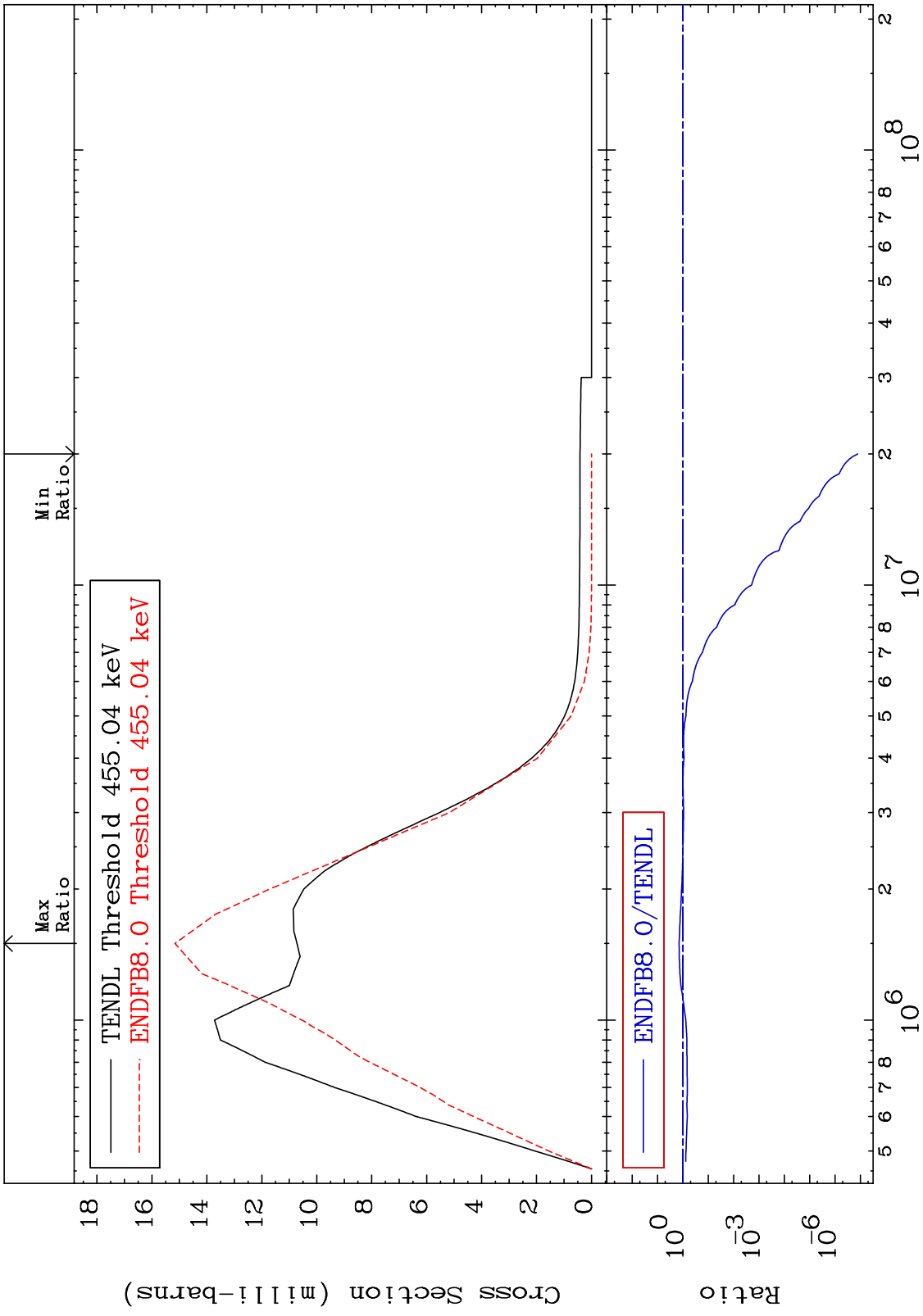


MAT 4128 MT= 59 (n,n') Level Cross Section 41-Nb-94 -100.0 To -13.95%

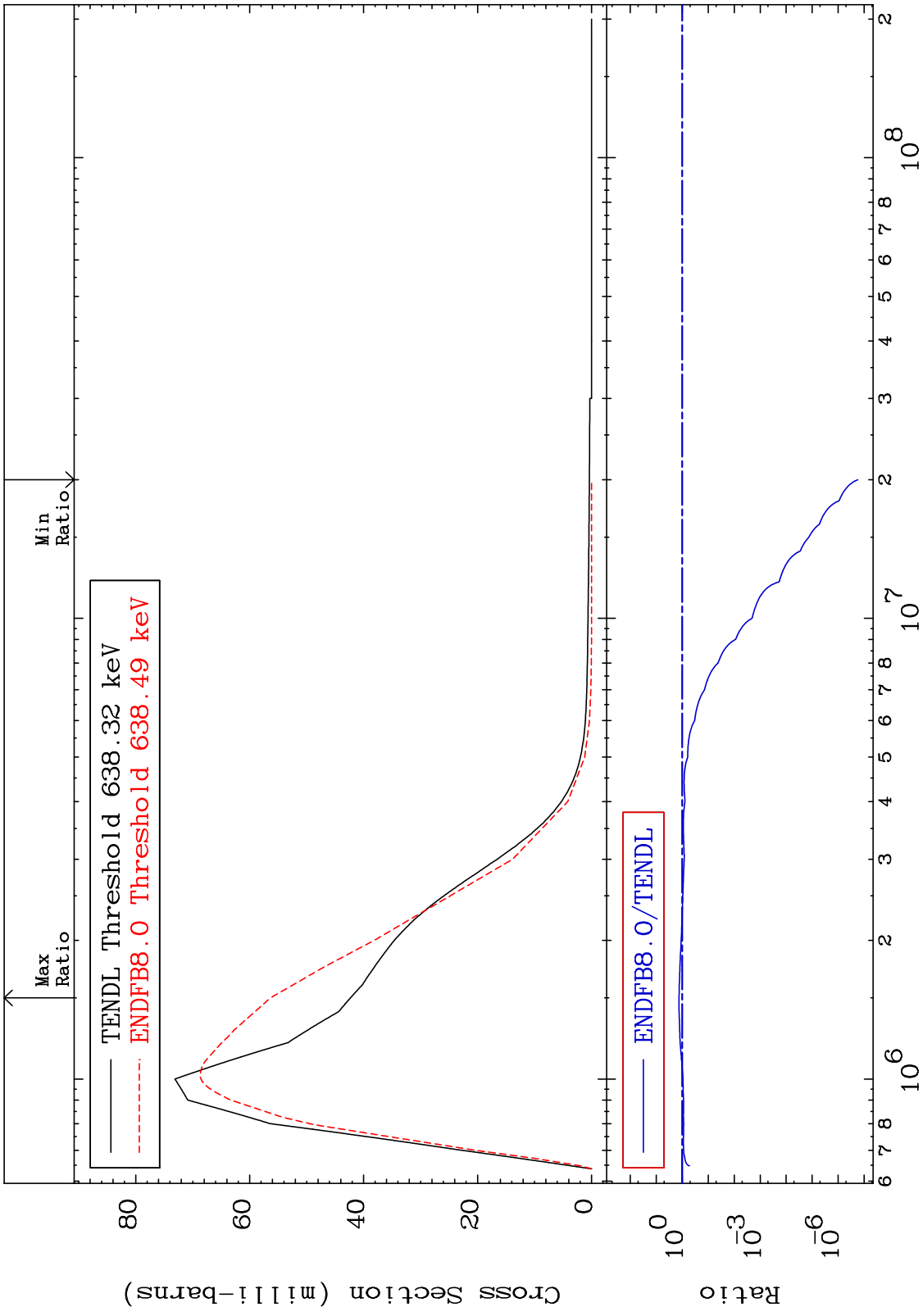


18 41-Nb-94

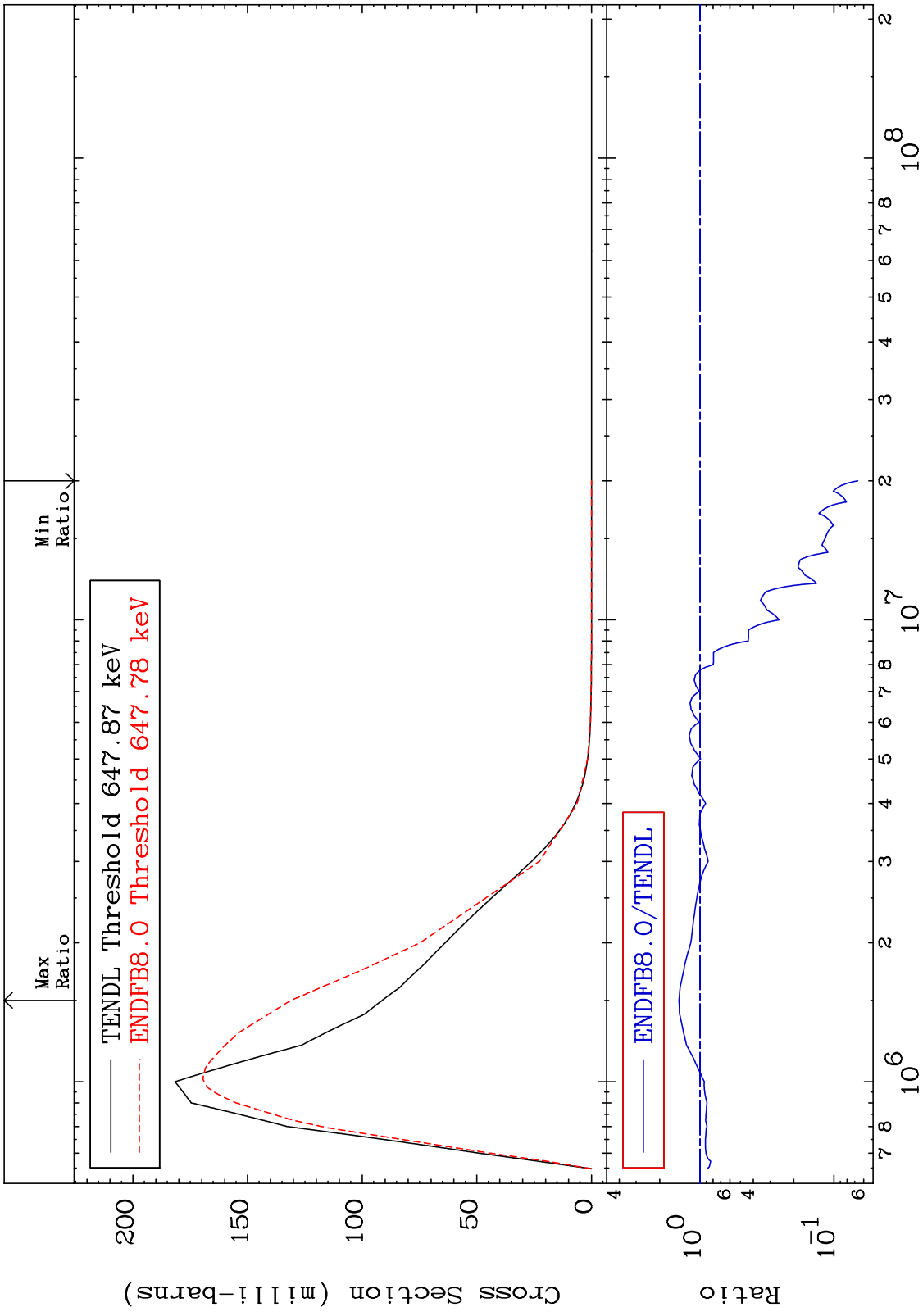
MAT 4128 MT= 60 (n,n') Level Cross Section -100.0 To 41.43 % 41-Nb-94



MAT 4128 MT= 61 (n,n') Level Cross Section -100.0 To 33.21 % 41-Nb-94



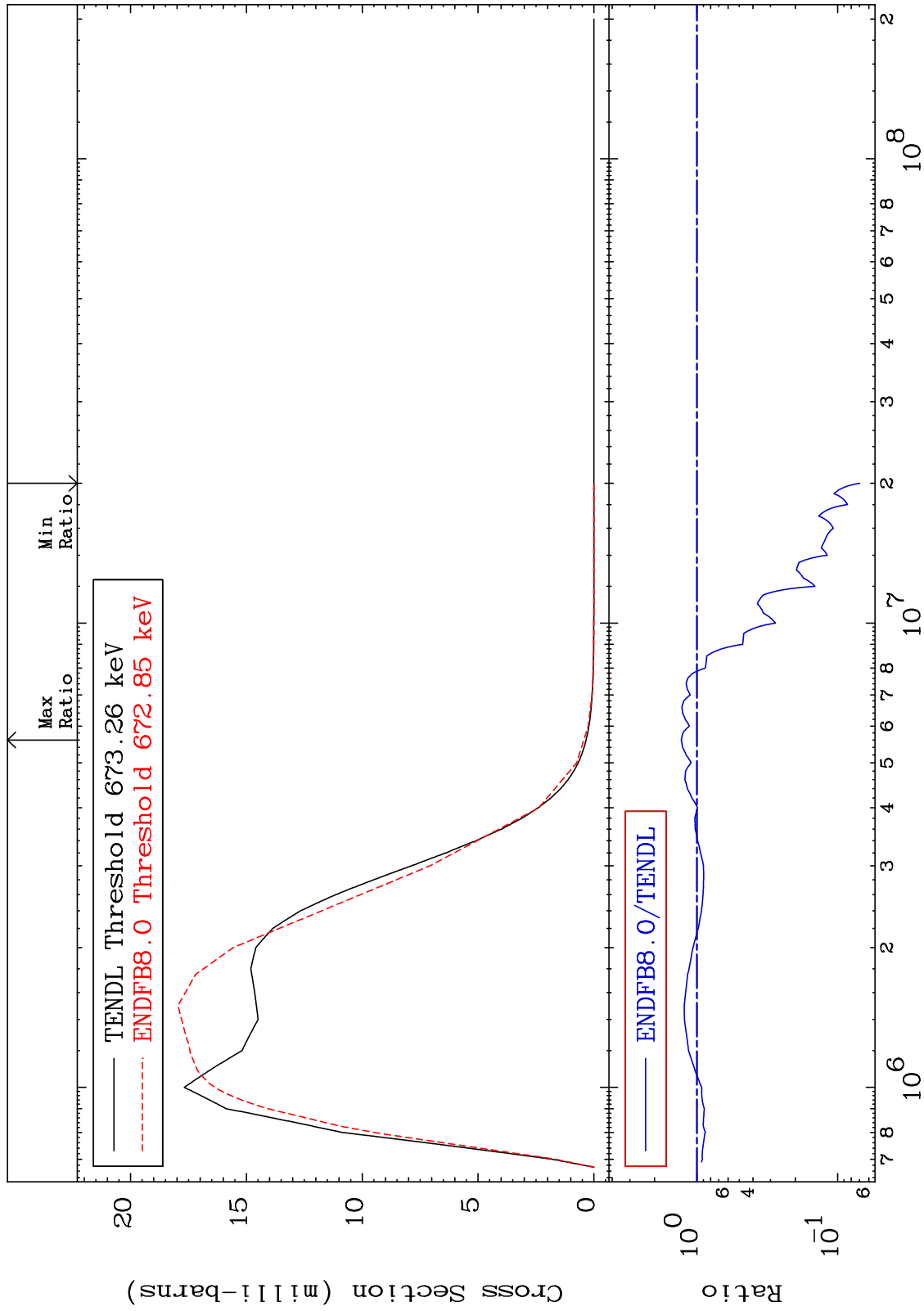
MAT 4128 MT= 62 (n,n') Level Cross Section 41-Nb-94 -93.35 To 43.54 %



MAT 4128

MT= 63 (n,n') Level
Cross Section

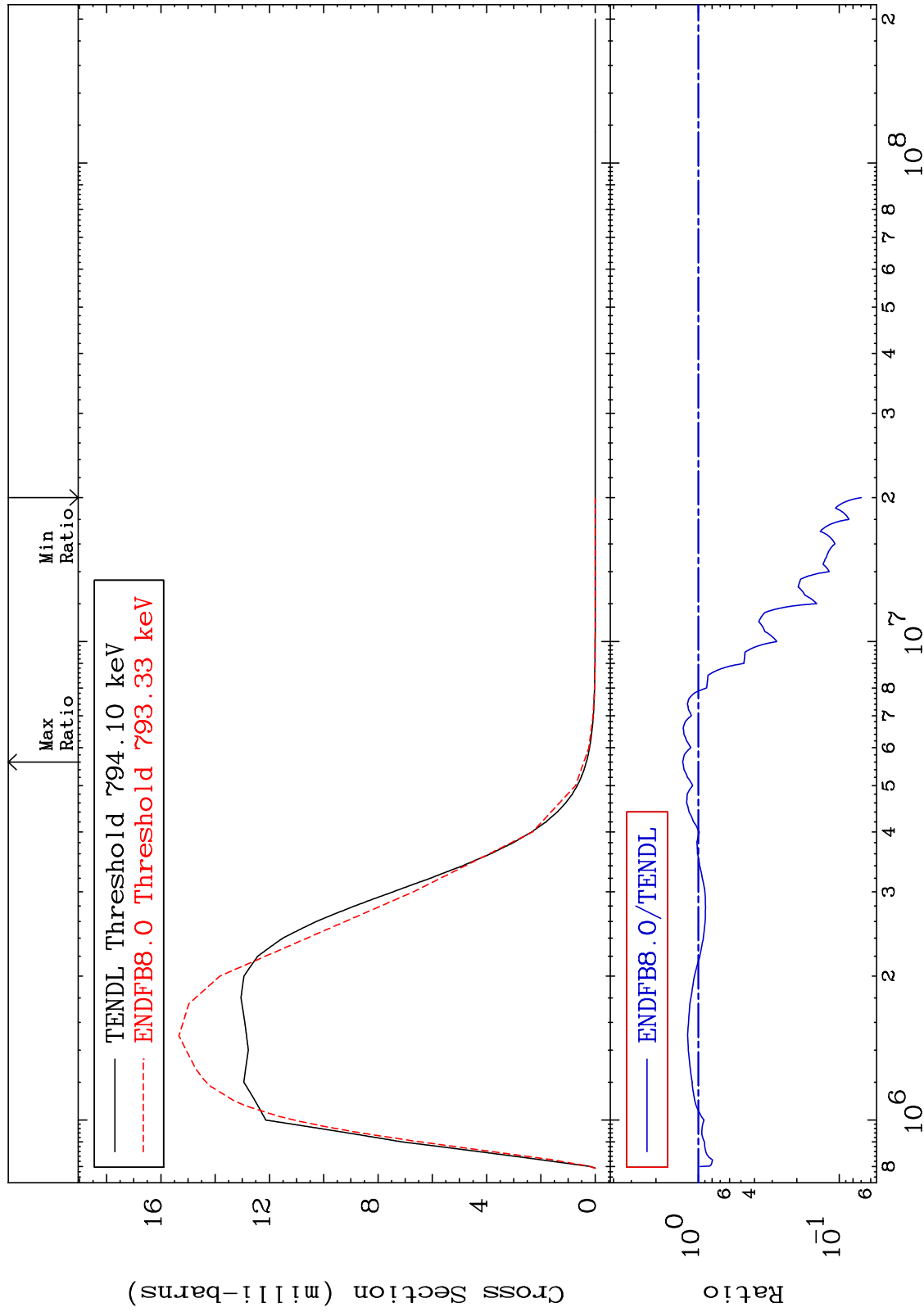
41-Nb-94
-93.04 To 29.26 %



MAT 4128

MT= 64 (n,n') Level
Cross Section

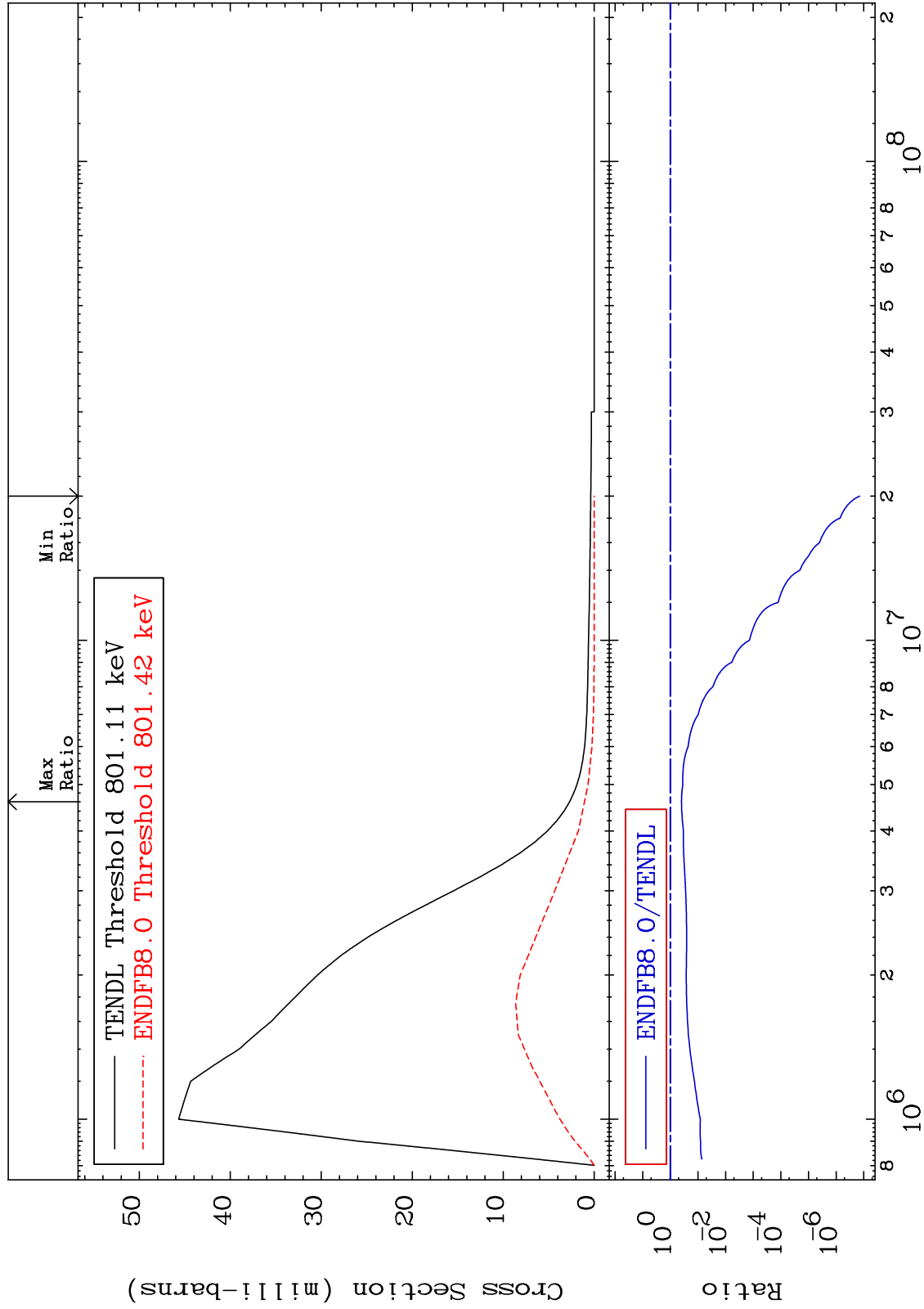
41-Nb-94
-93.02 To 29.32 %



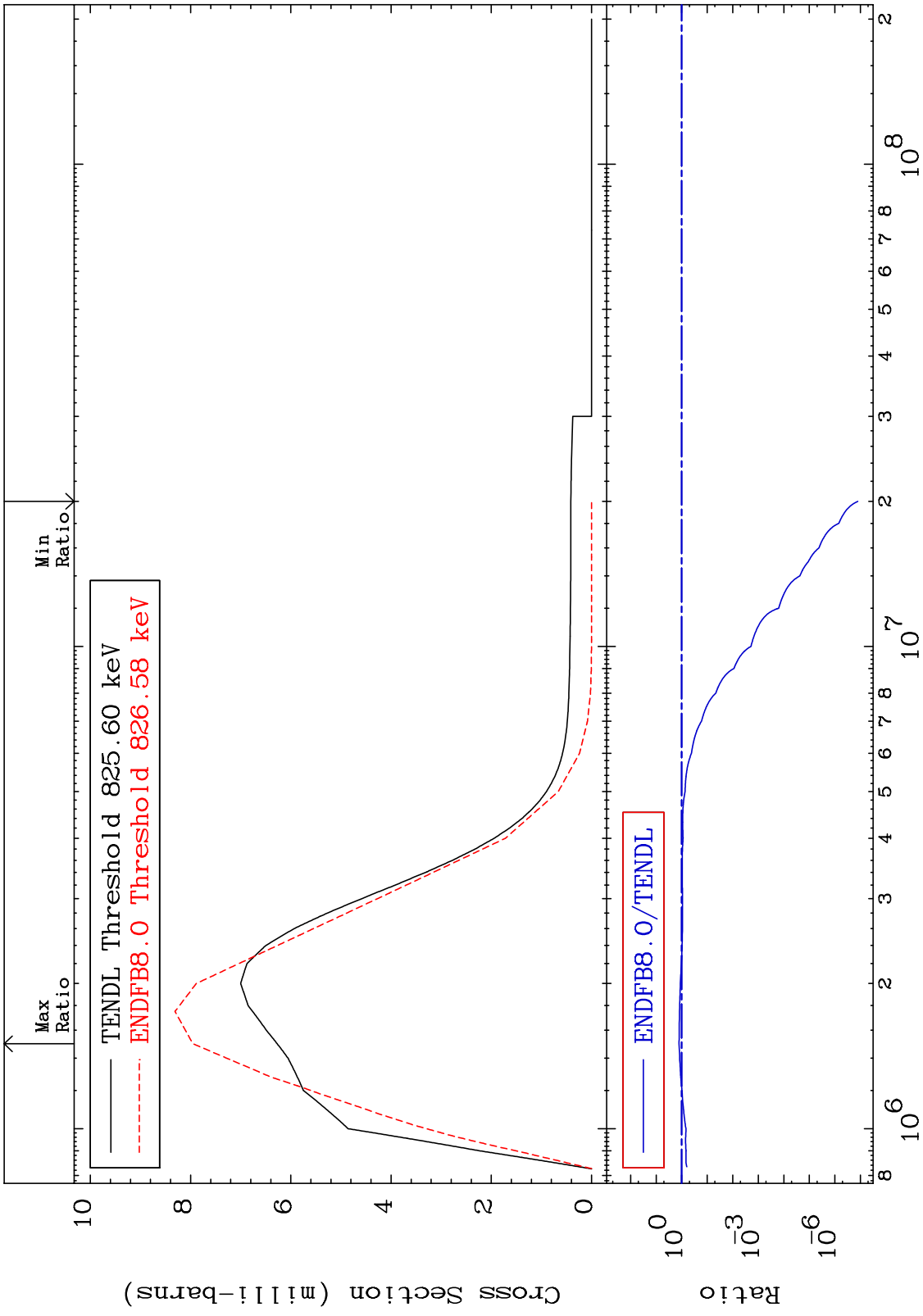
MAT 4128

MT= 65 (n,n') Level
Cross Section

41-Nb-94
-100.0 To -60.46%



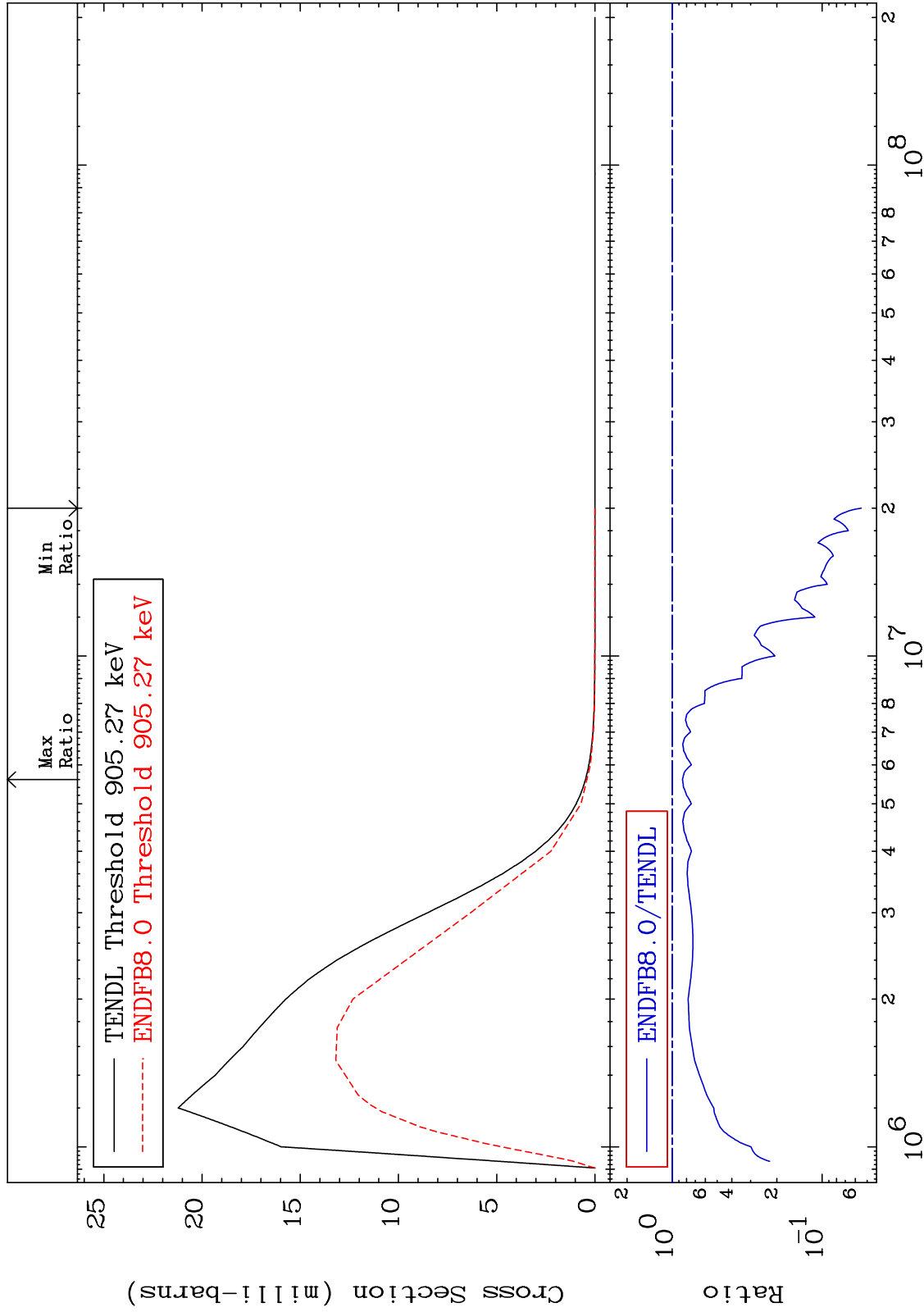
MAT 4128 MT= 66 (n,n') Level Cross Section -100.0 To 26.81 % 41-Nb-94



MAT 4128

MT= 67 (n,n') Level
Cross Section

41-Nb-94
-94.53 To -14.68%

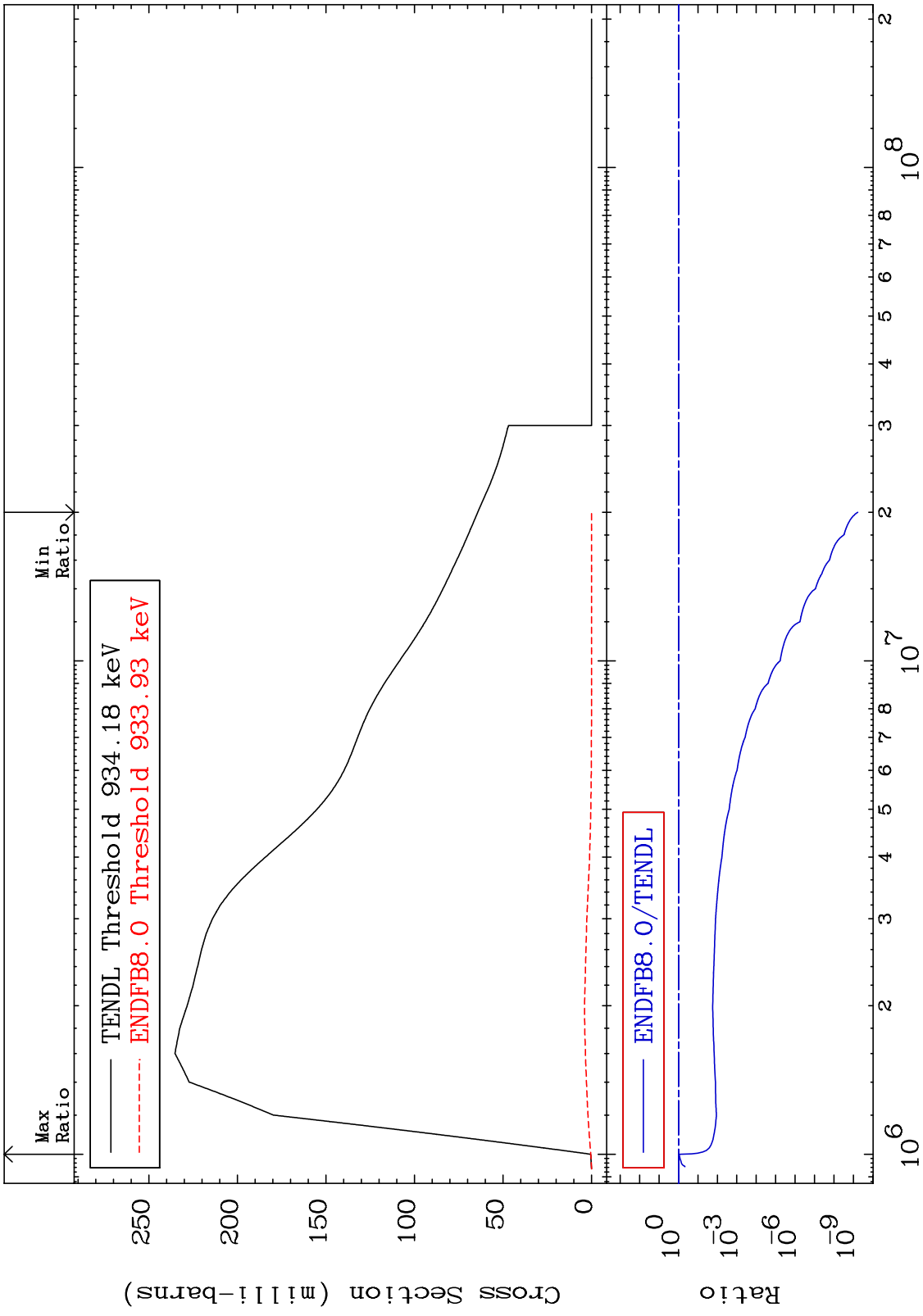


26

Incident Energy (eV)

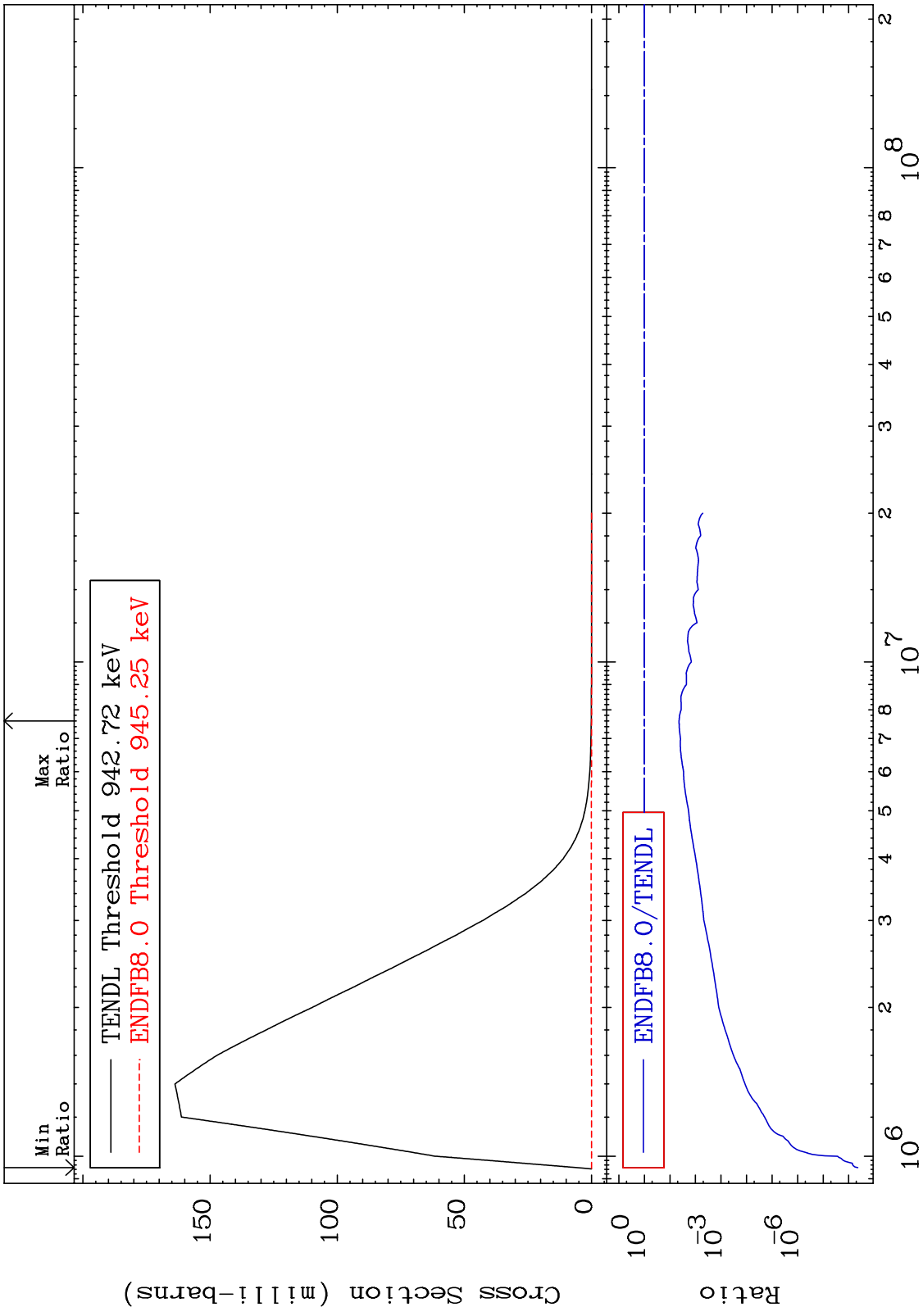
41-Nb-94

MAT 4128 MT= 68 (n,n') Level Cross Section 41-Nb-94 -100.0 To -6.235%



27 41-Nb-94

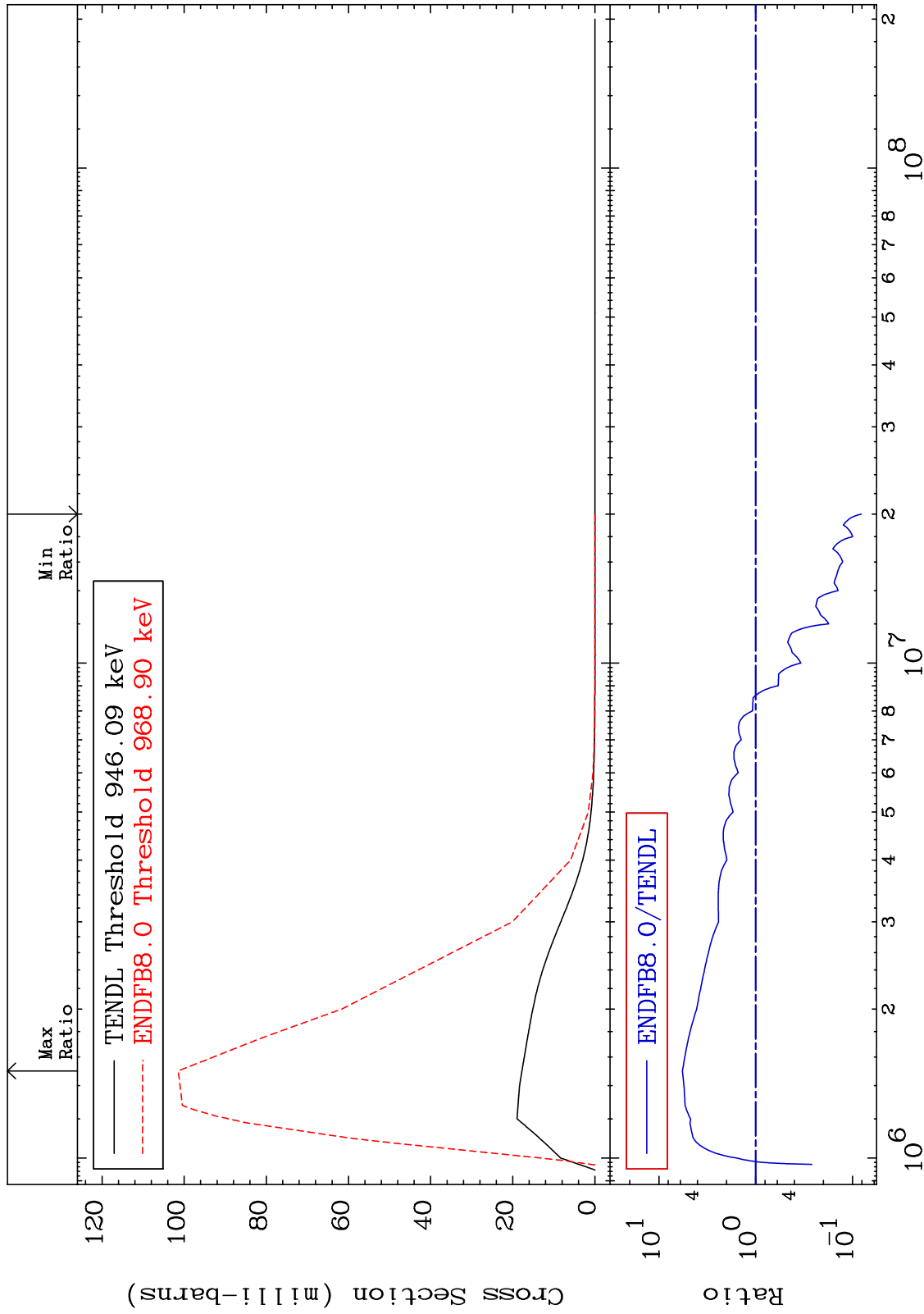
MAT 4128 MT= 69 (n,n') Level Cross Section -100.0 To -95.60% 41-Nb-94



MAT 4128

MT= 70 (n,n') Level
Cross Section

41-Nb-94
-91.87 To 471.0 %

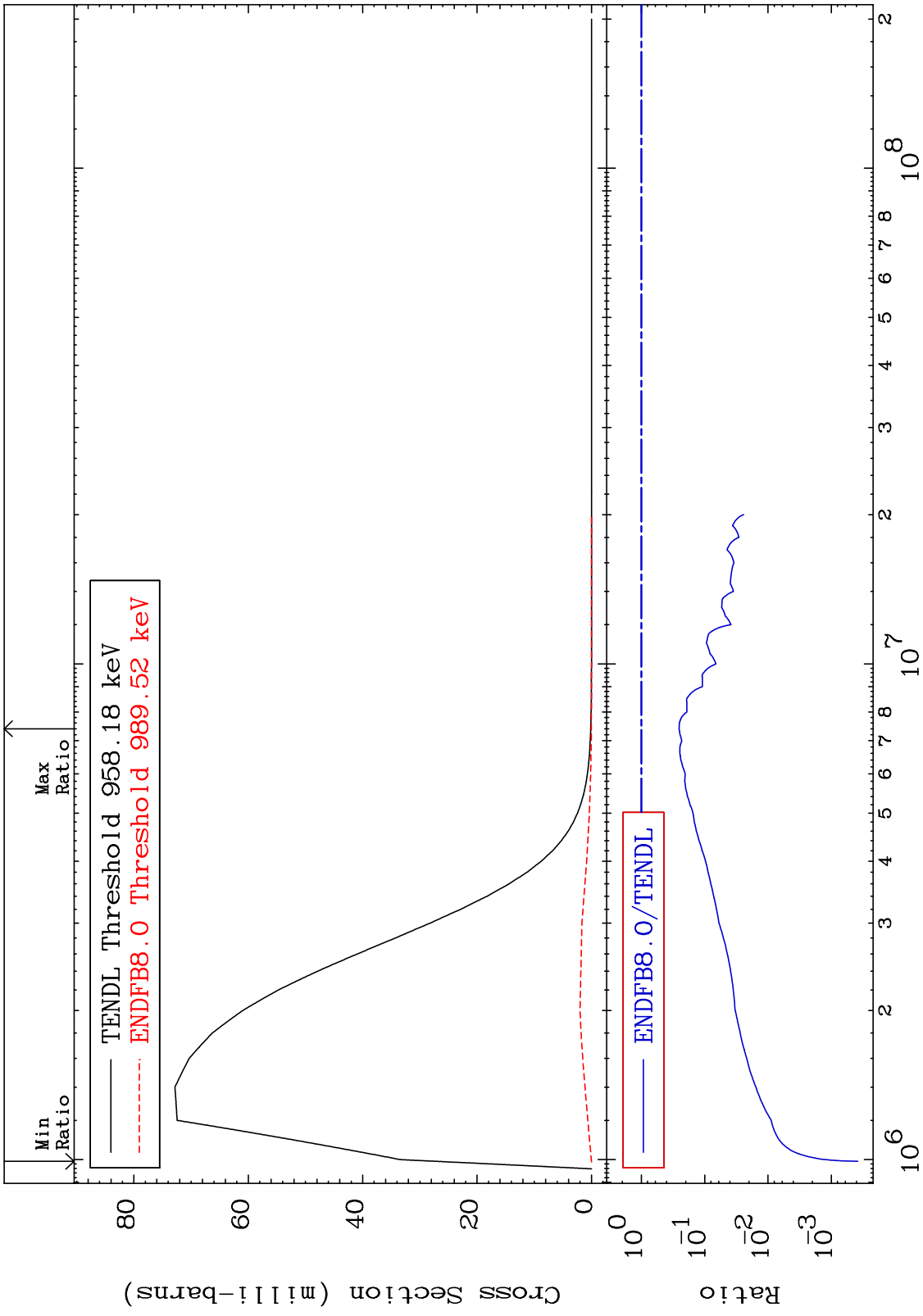


29

Incident Energy (eV)

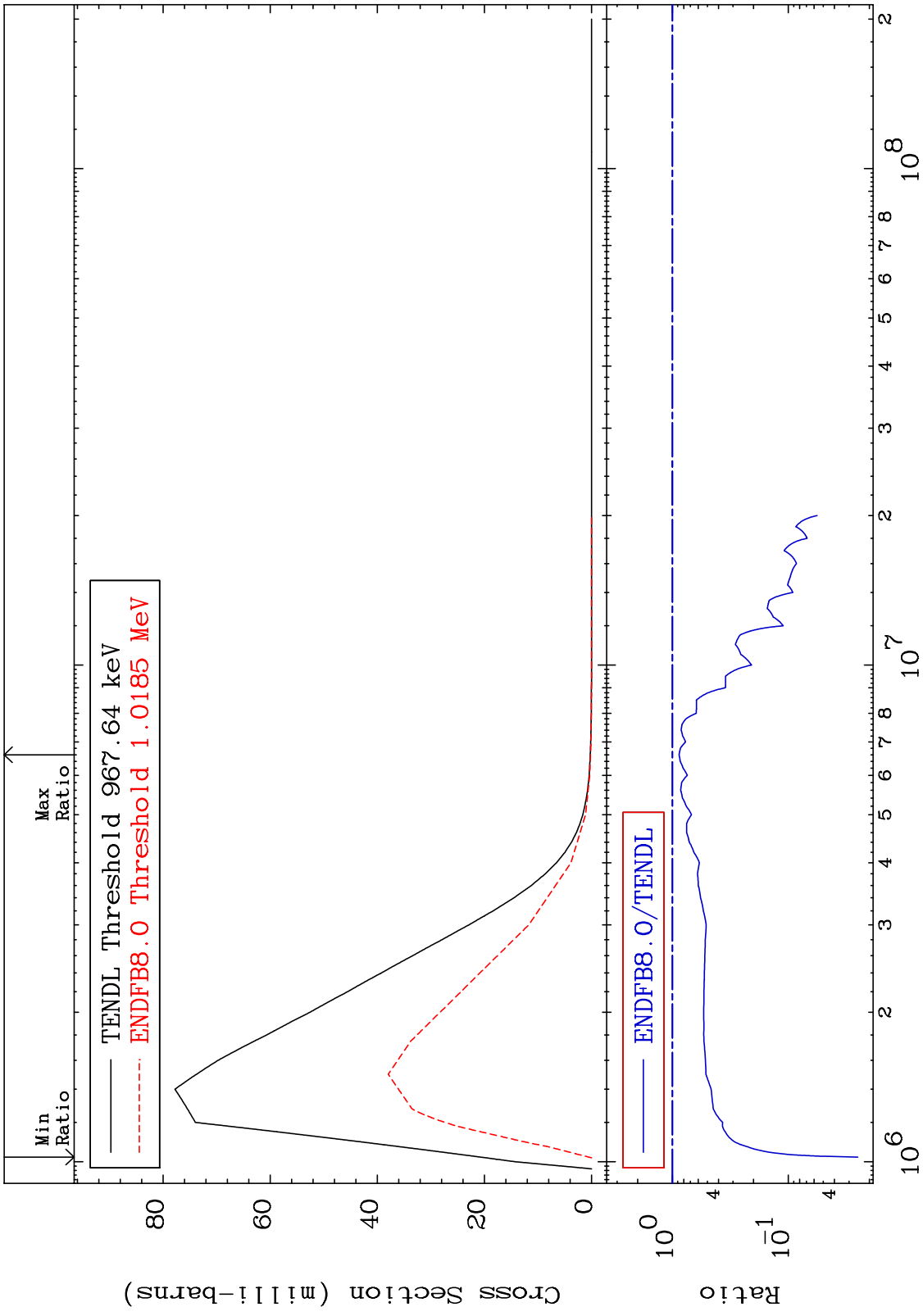
41-Nb-94

MAT 4128 MT= 71 (n,n') Level Cross Section 41-Nb-94 -99.96 To -74.56%



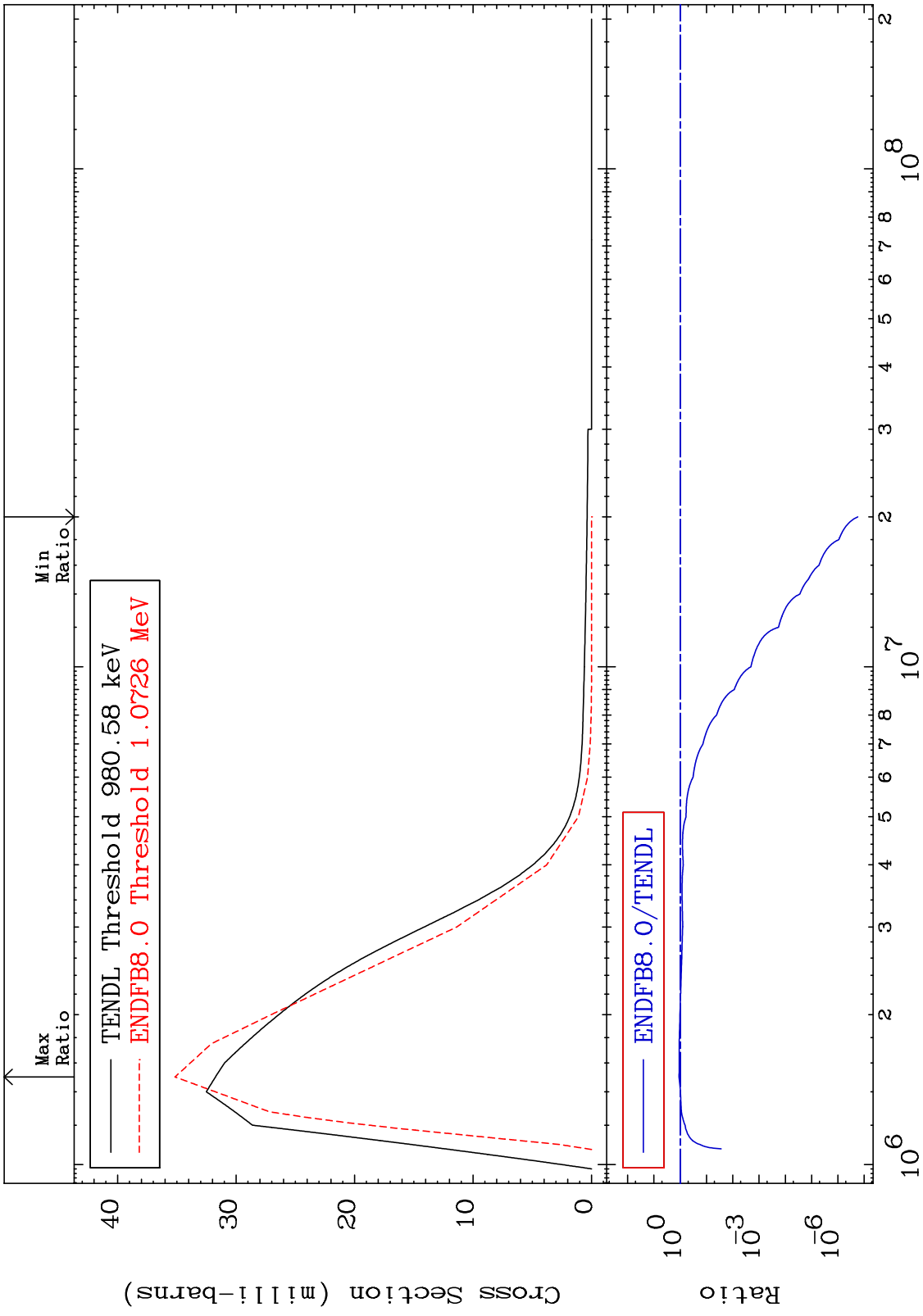
30 10⁶ 10⁷ 10⁸ 2 3 4 5 6 7 8 2 3 4 5 6 7 8 2 41-Nb-94

MAT 4128 MT= 72 (n,n') Level Cross Section 41-Nb-94 -97.48 To -12.26%



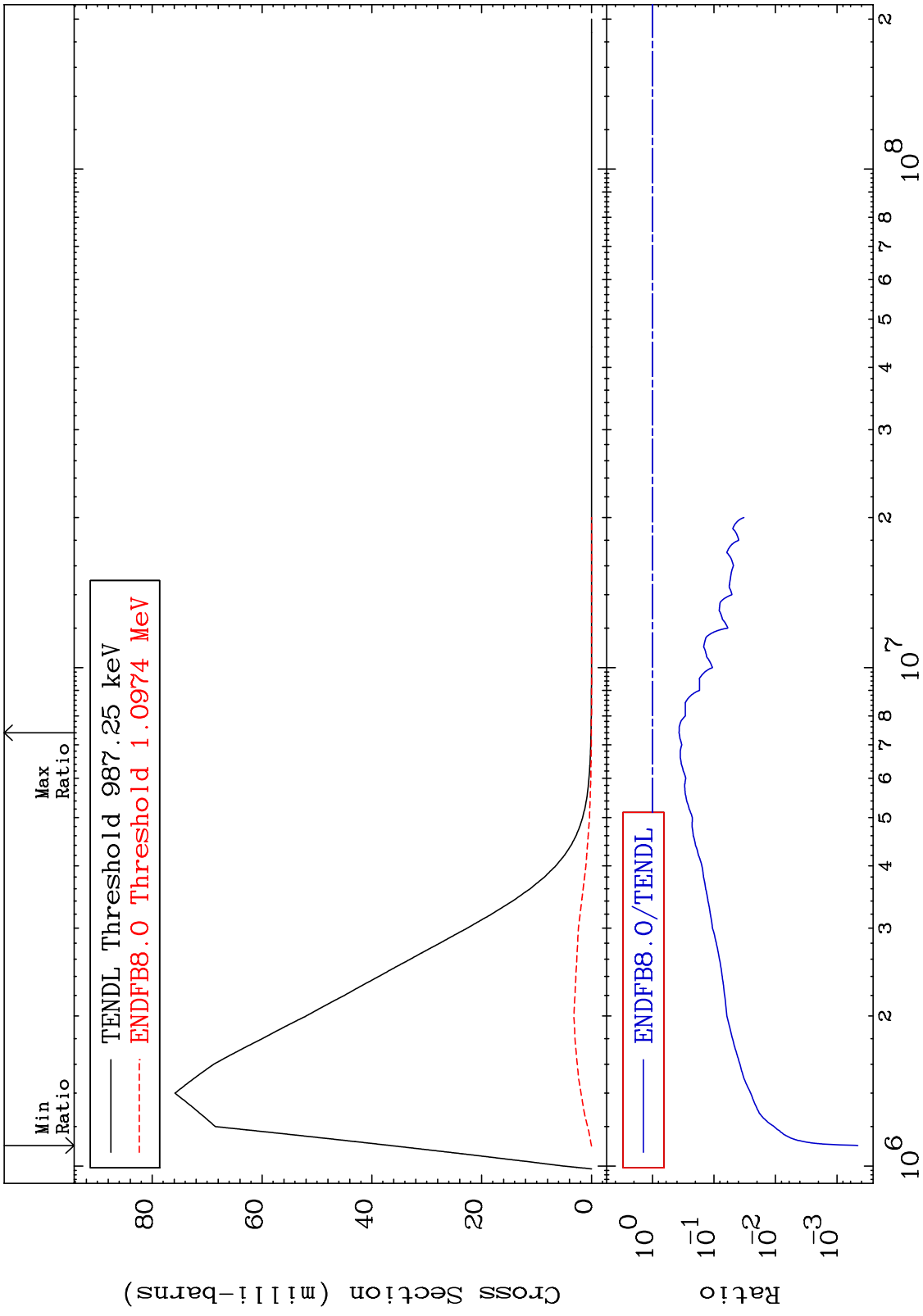
31 Incident Energy (eV) 41-Nb-94

MAT 4128 MT= 73 (n,n') Level Cross Section 41-Nb-94
 -100.0 To 10.78 %

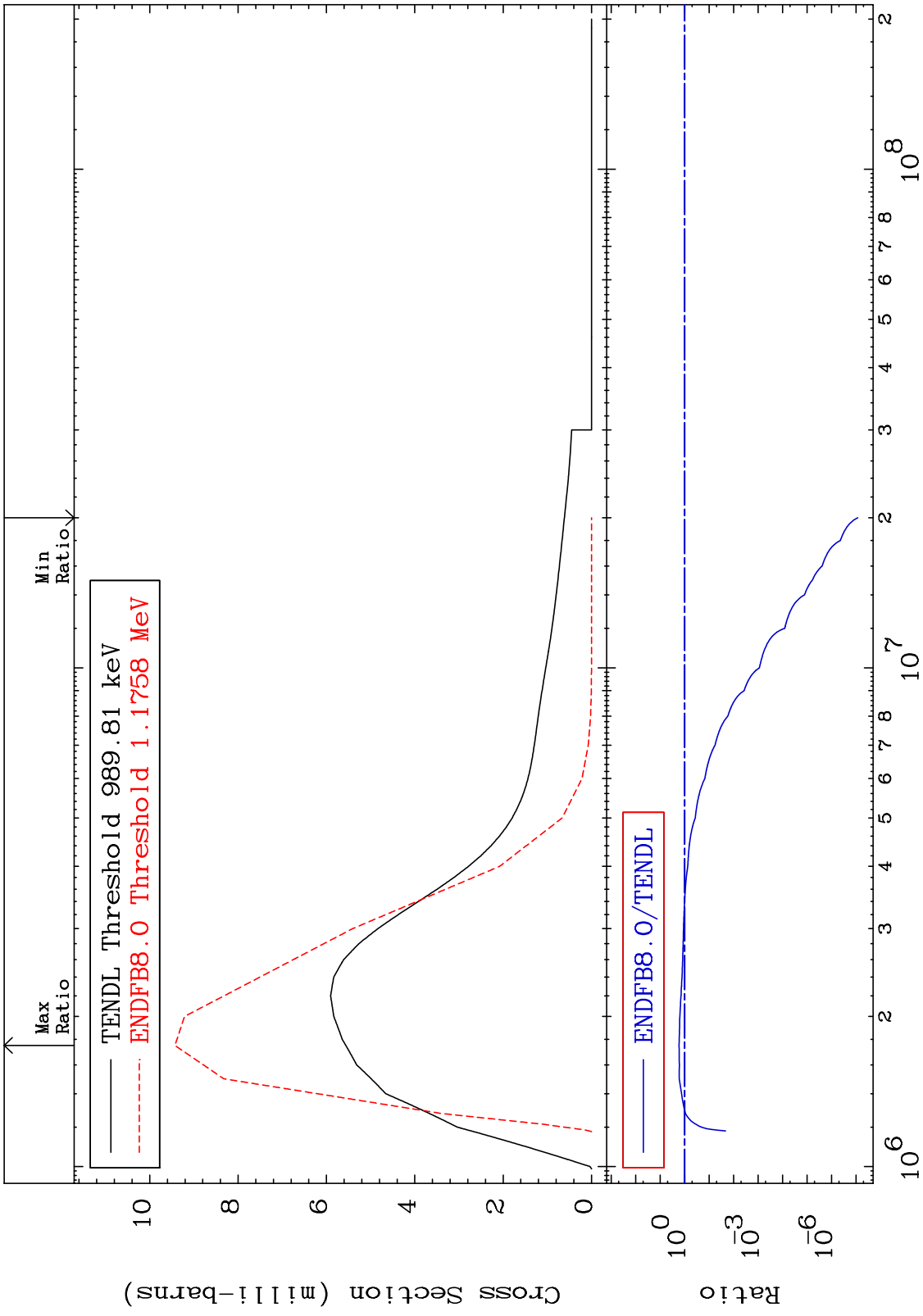


32 Incident Energy (eV) 41-Nb-94

MAT 4128 MT= 74 (n,n') Level Cross Section 41-Nb-94 -99.95 To -63.07%



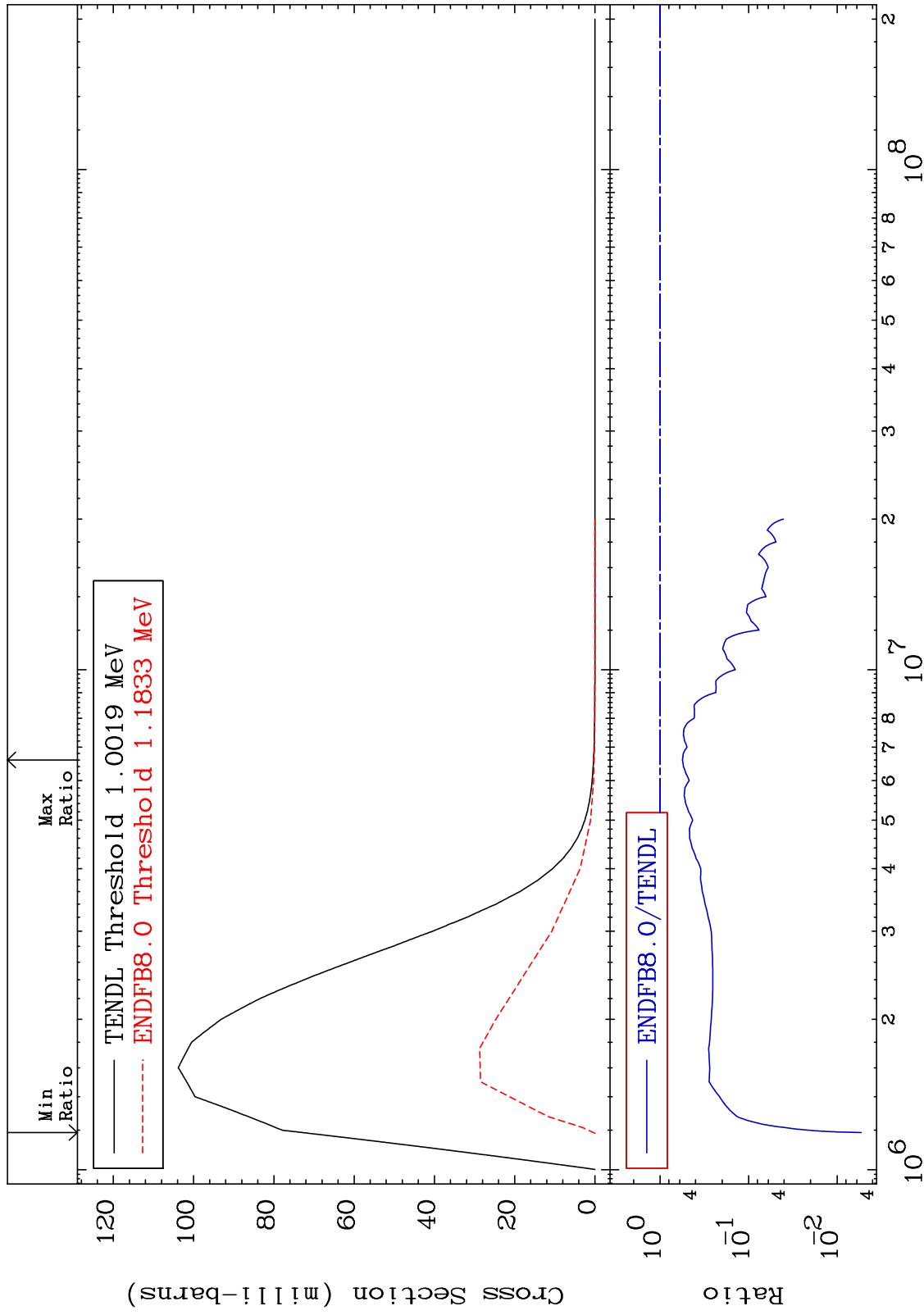
MAT 4128 MT= 75 (n,n') Level Cross Section 41-Nb-94
 -100.0 To 69.53 %



MAT 4128

MT= 76 (n,n') Level
Cross Section

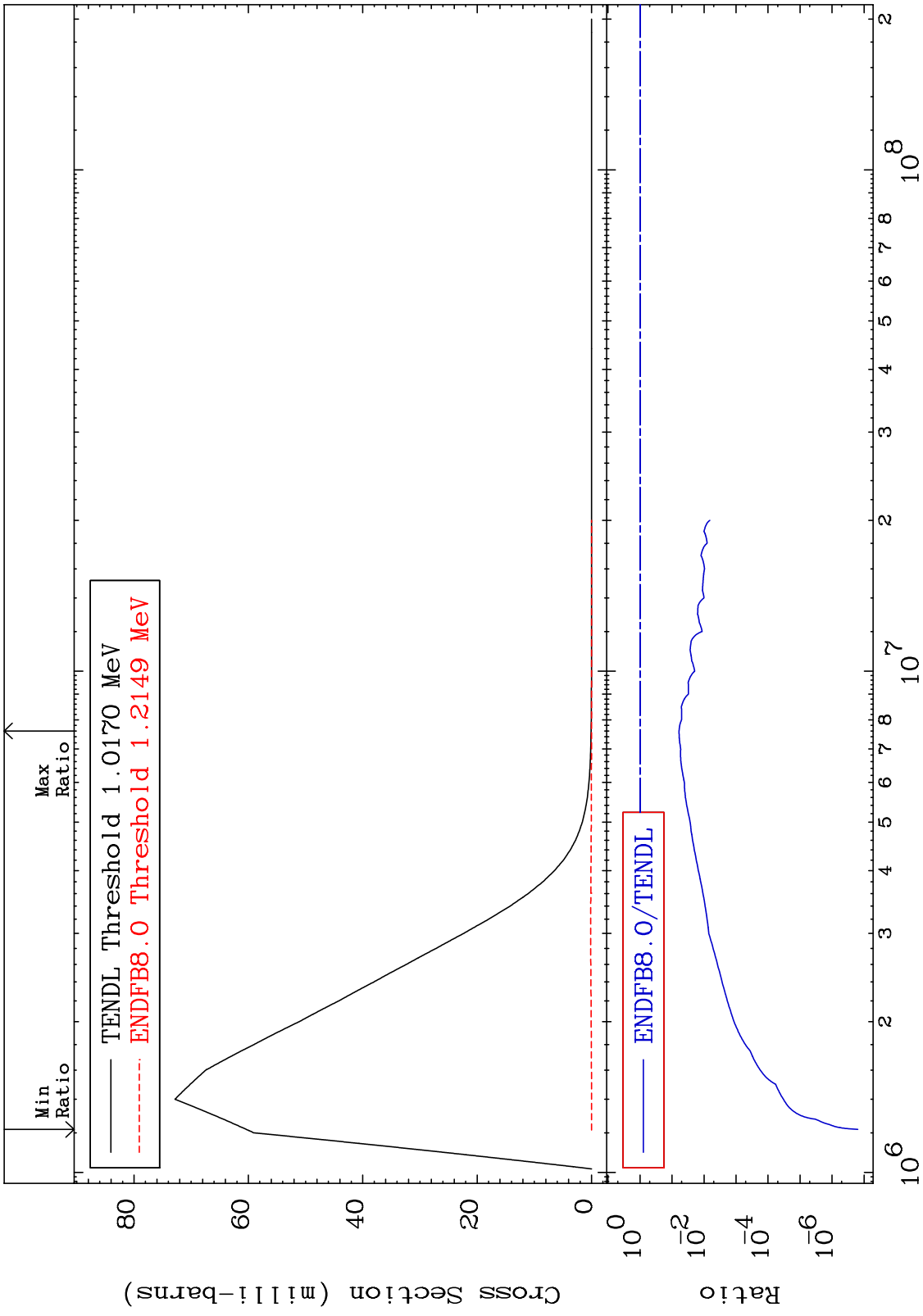
41-Nb-94
-99.46 To -43.96%



35

41-Nb-94

MAT 4128 MT= 77 (n,n') Level Cross Section 41-Nb-94 -100.0 To -93.96%

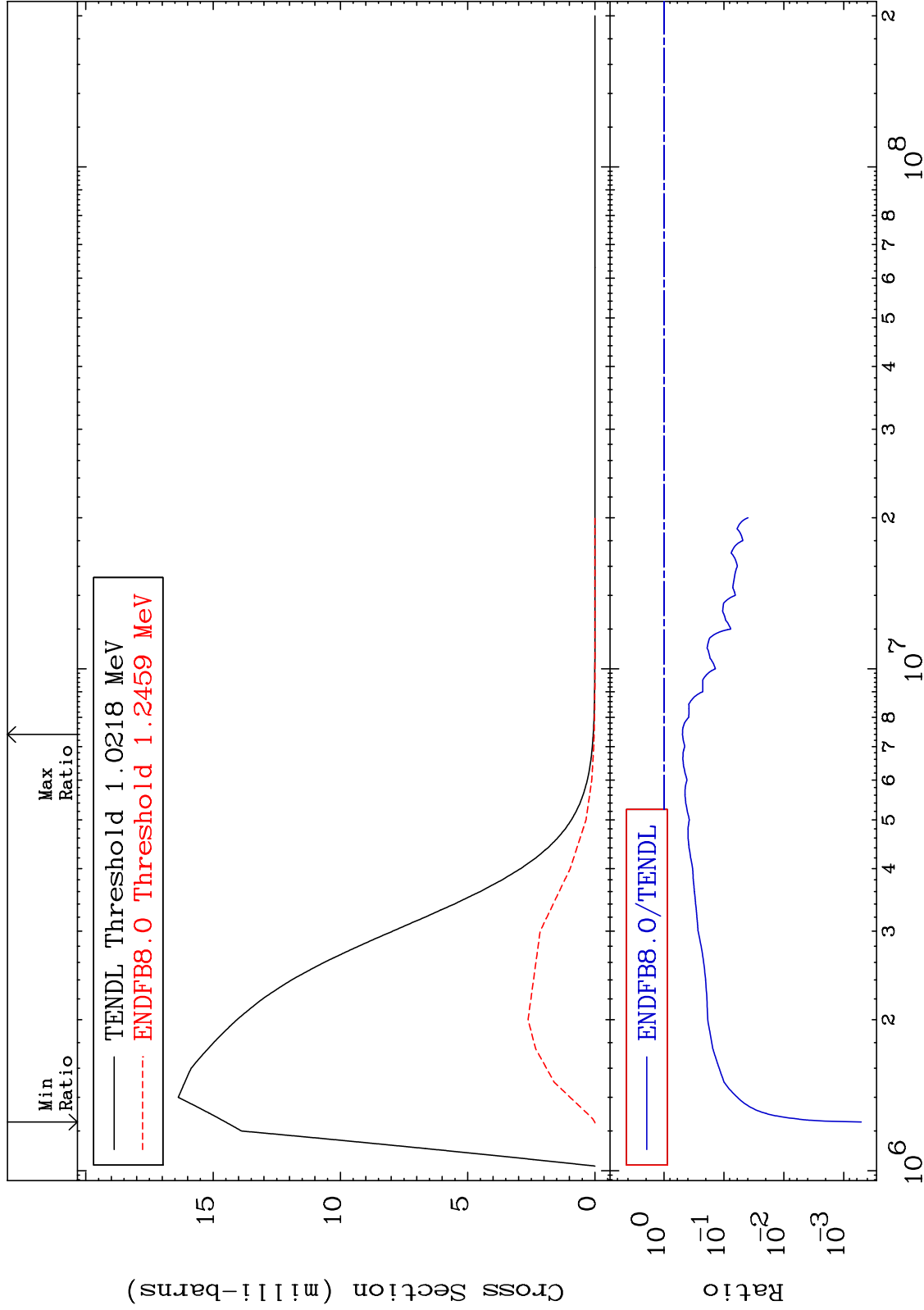


36 41-Nb-94 Incident Energy (eV)

MAT 4128

MT= 78 (n,n') Level
Cross Section

41-Nb-94
-99.95 To -50.75%



37

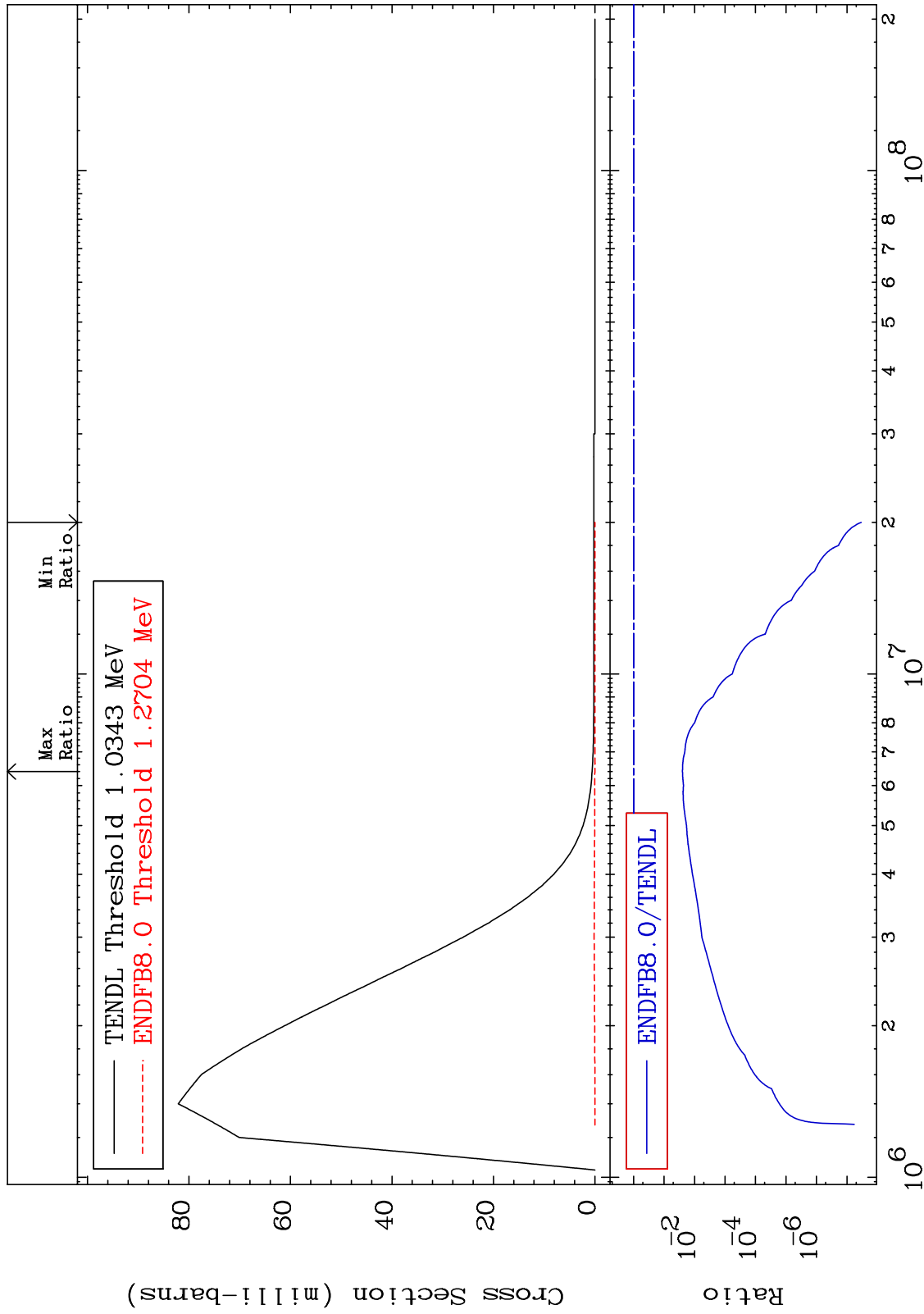
Incident Energy (eV)

41-Nb-94

MAT 4128

MT= 79 (n,n') Level
Cross Section

41-Nb-94
-100.0 To -97.51%



38

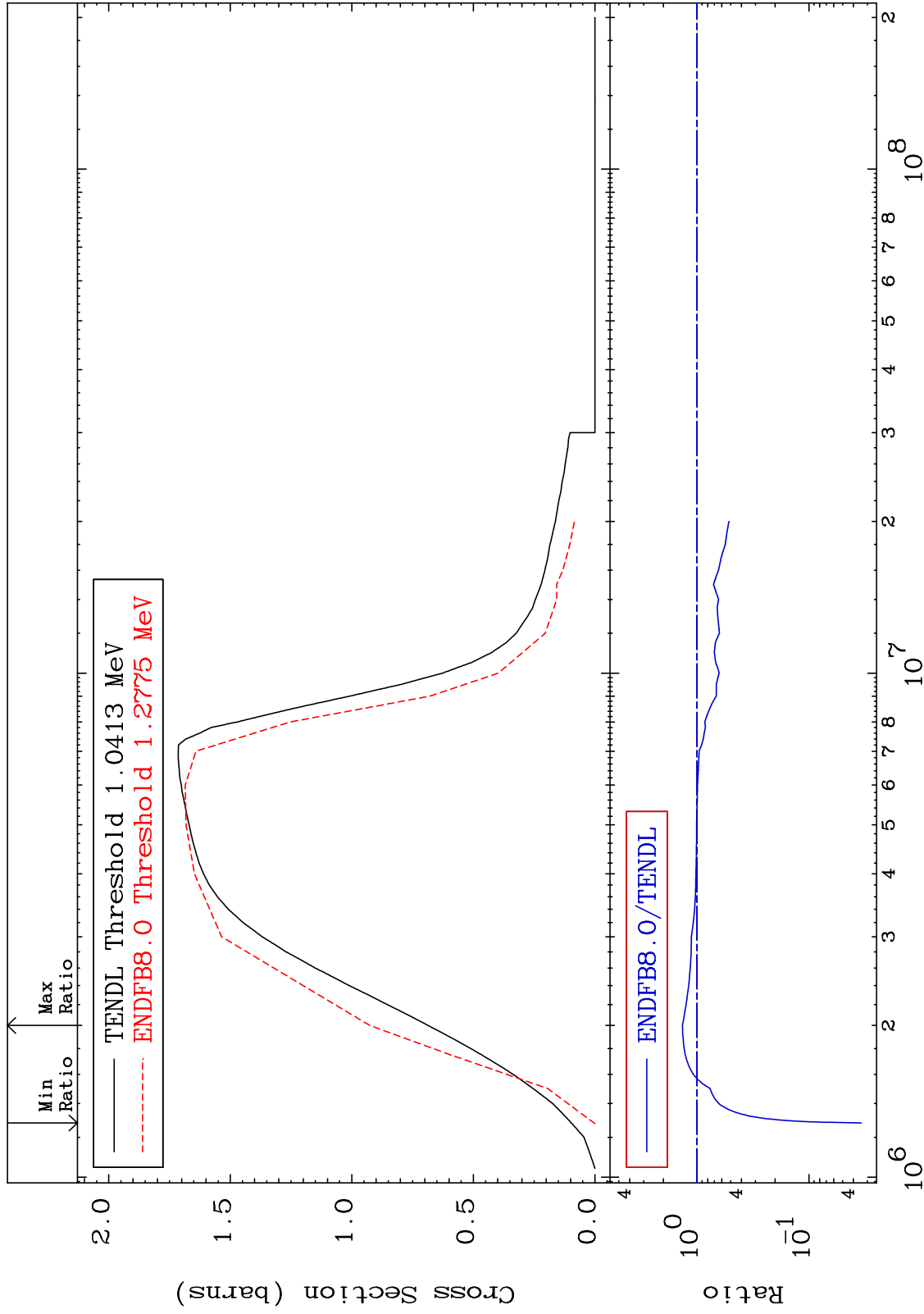
Incident Energy (eV)

41-Nb-94

MAT 4128

(n, n') Continuum
Cross Section

41-Nb-94
-96.60 To 34.87 %



39

Incident Energy (eV)

41-Nb-94

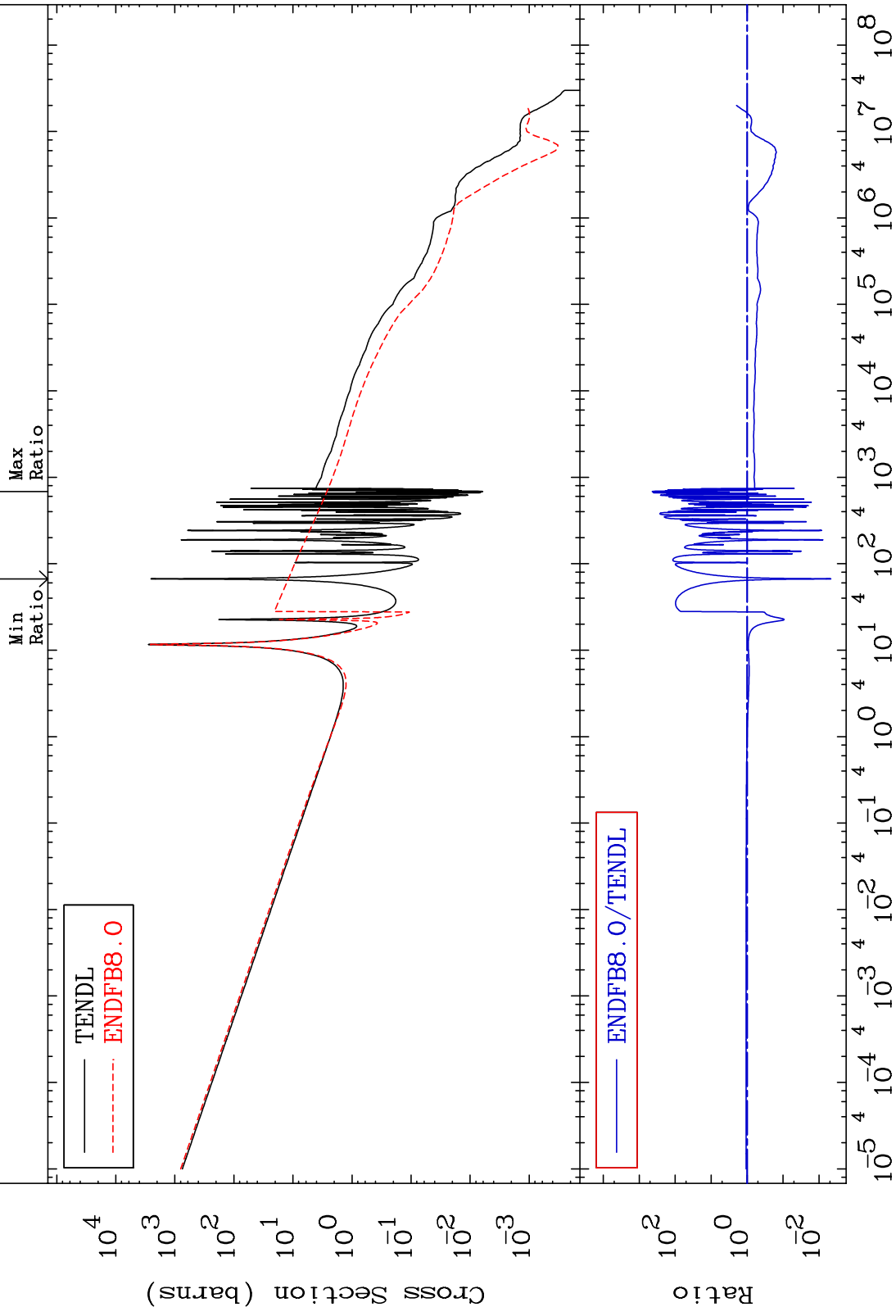
MAT 4128

41-Nb-94

-99.53 To 9999. %

(n, γ)

Cross Section



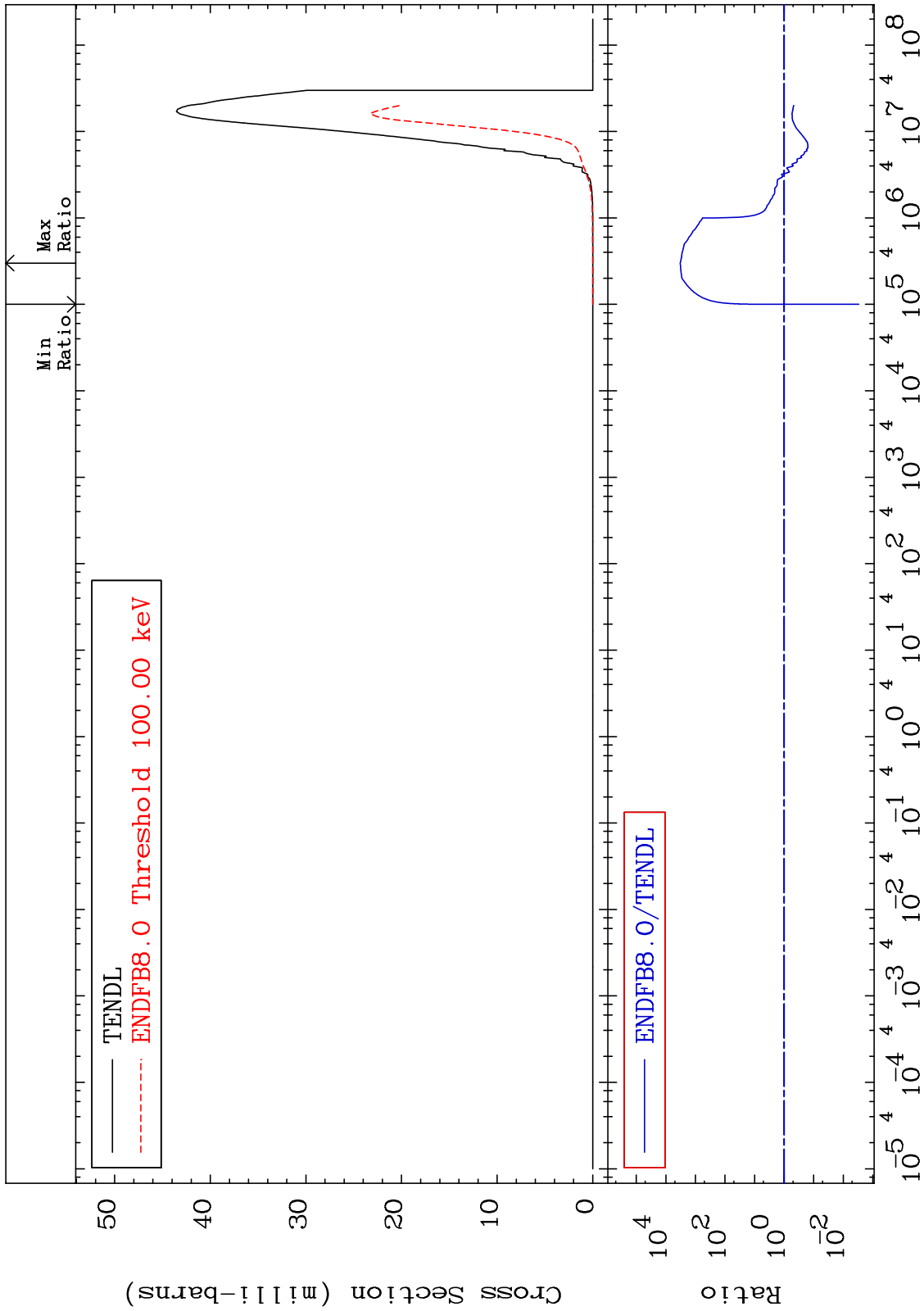
MAT 4128

(n,p)

41-Nb-94

Cross Section

-99.70 To 9999. %

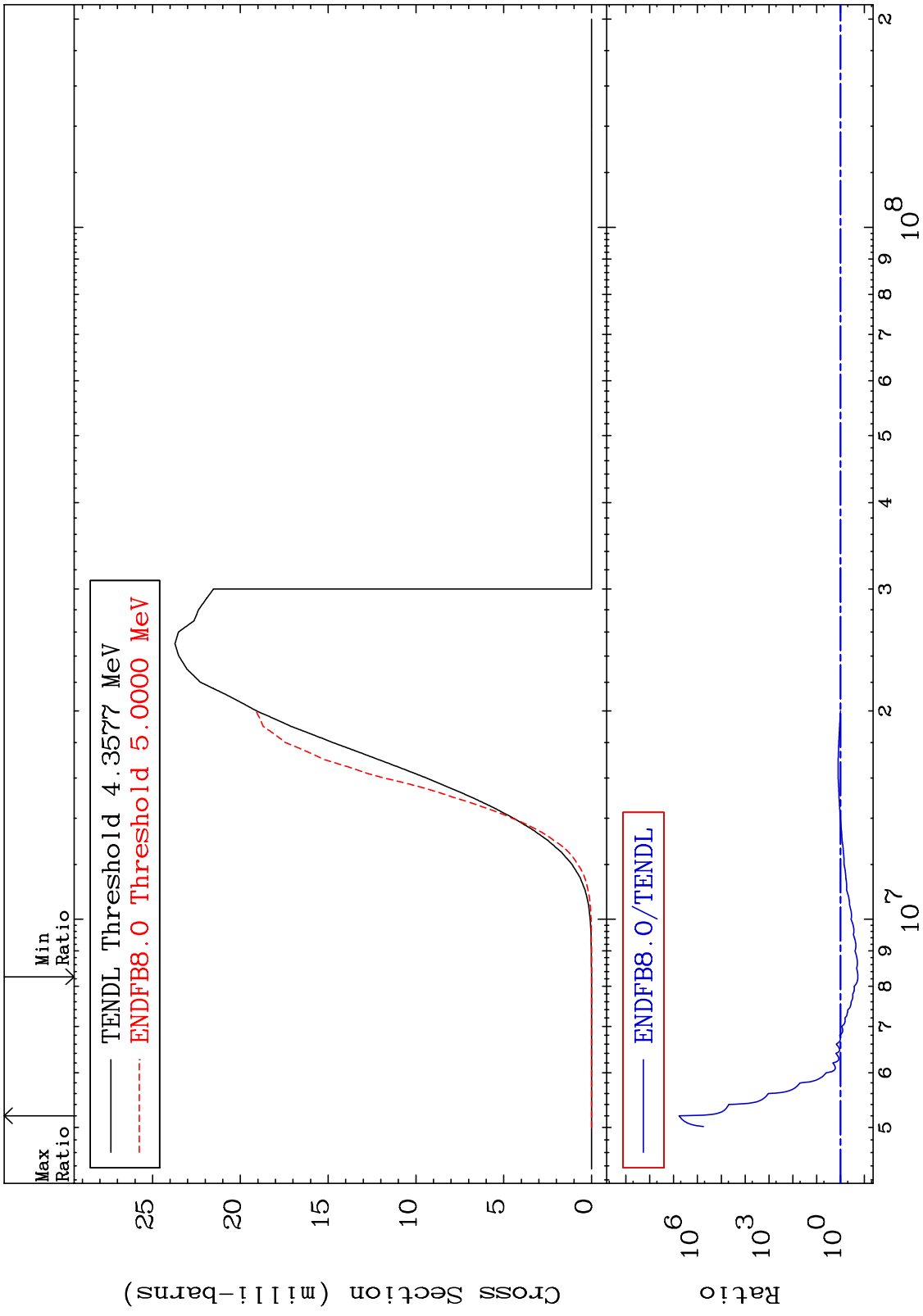


41

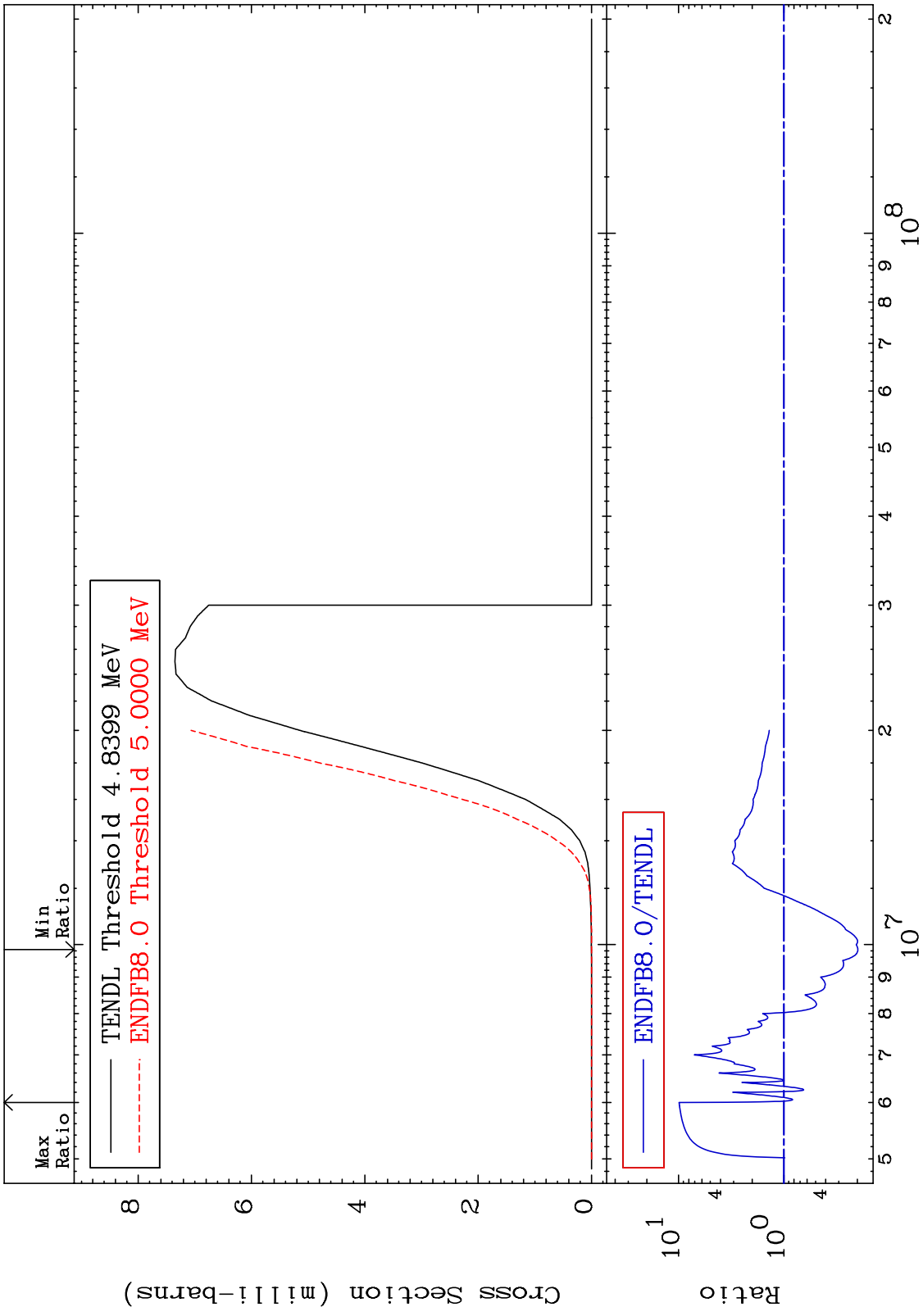
Incident Energy (eV)

41-Nb-94

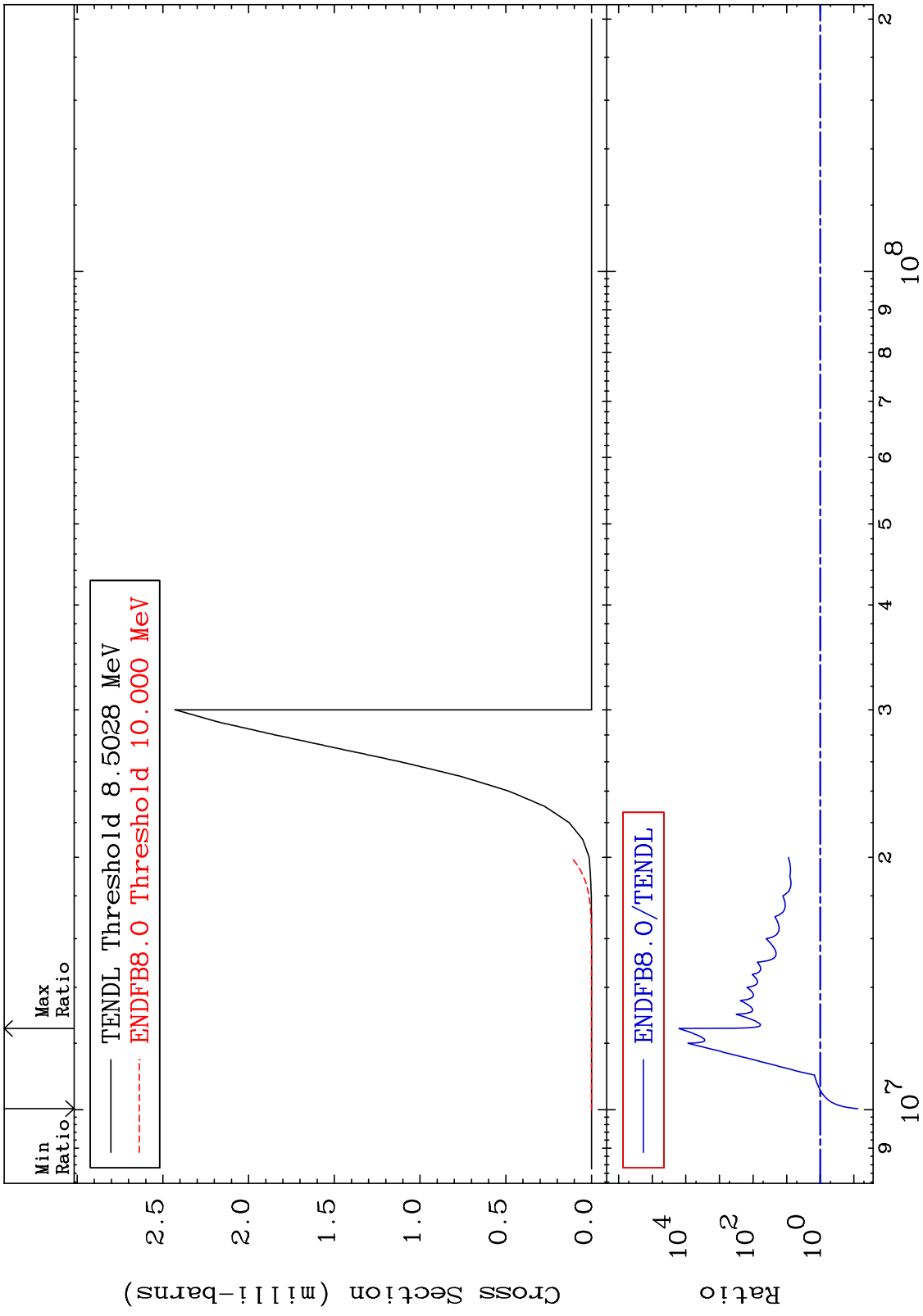
MAT 4128 (n,d) 41-Nb-94
 Cross Section -81.27 To 9999. %



MAT 4128 (n,t) 41-Nb-94
 Cross Section -80.18 To 888.4 %



43 41-Nb-94



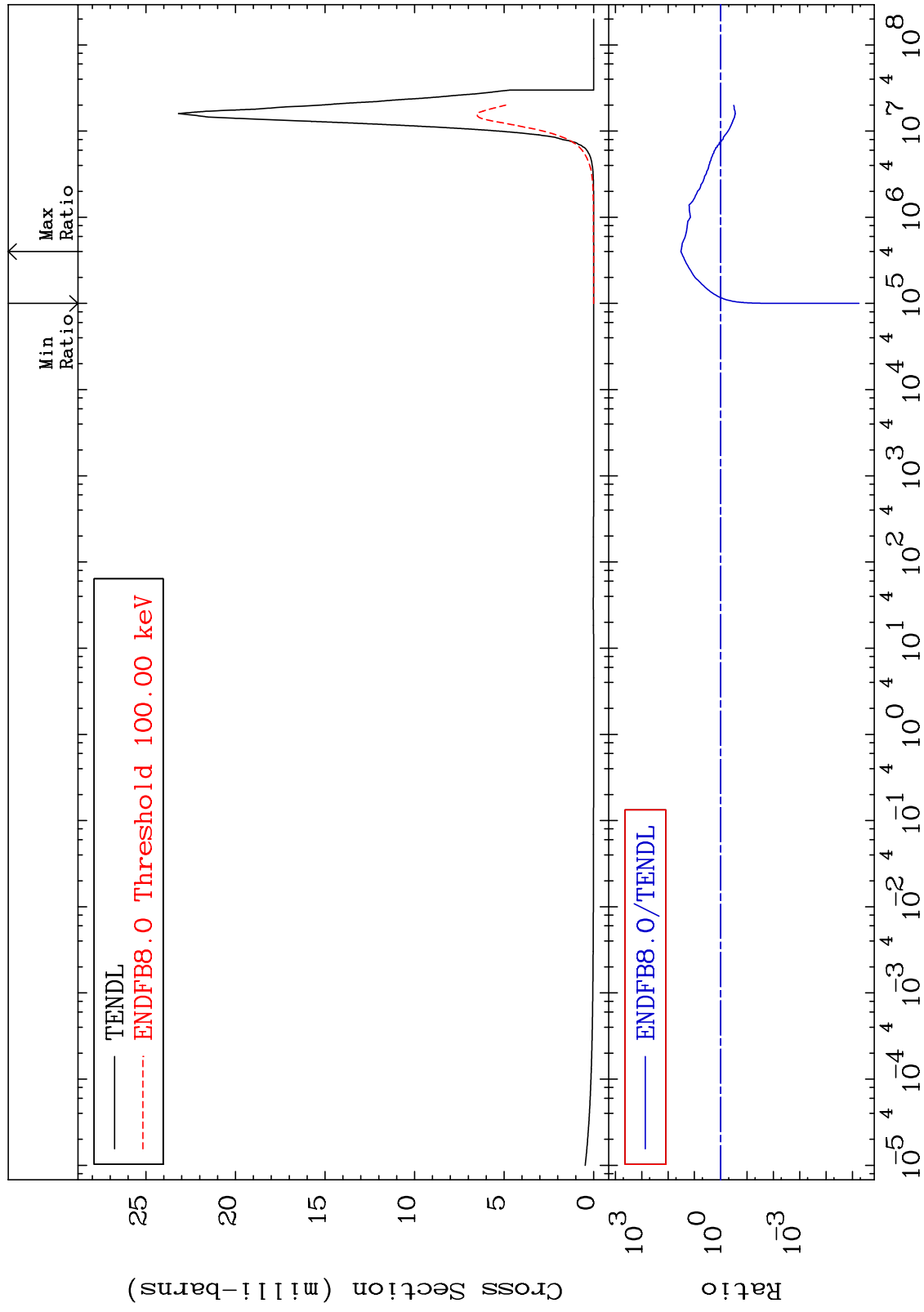
MAT 4128

(n, α)

41-Nb-94

Cross Section

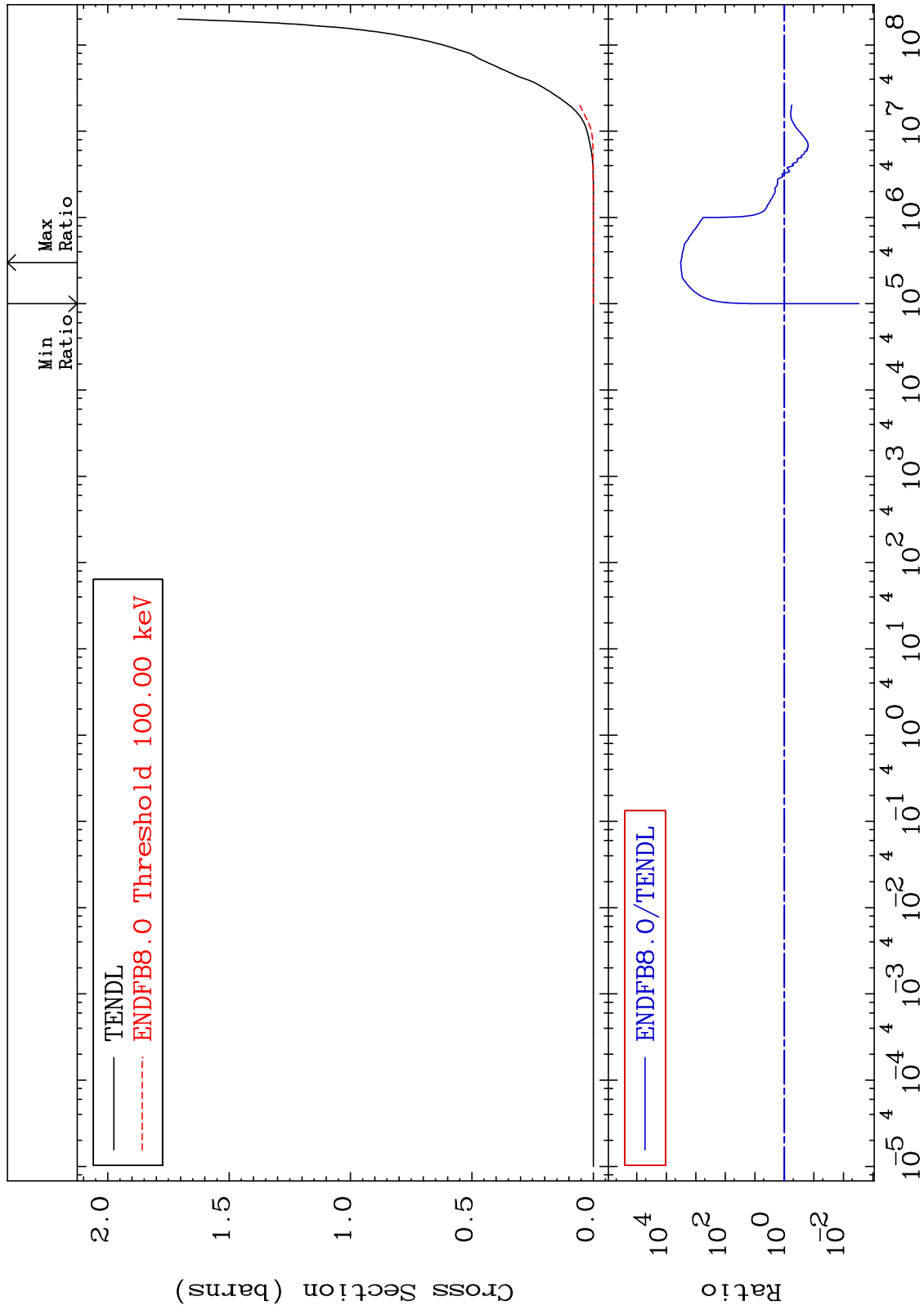
-100.0 To 3170. %



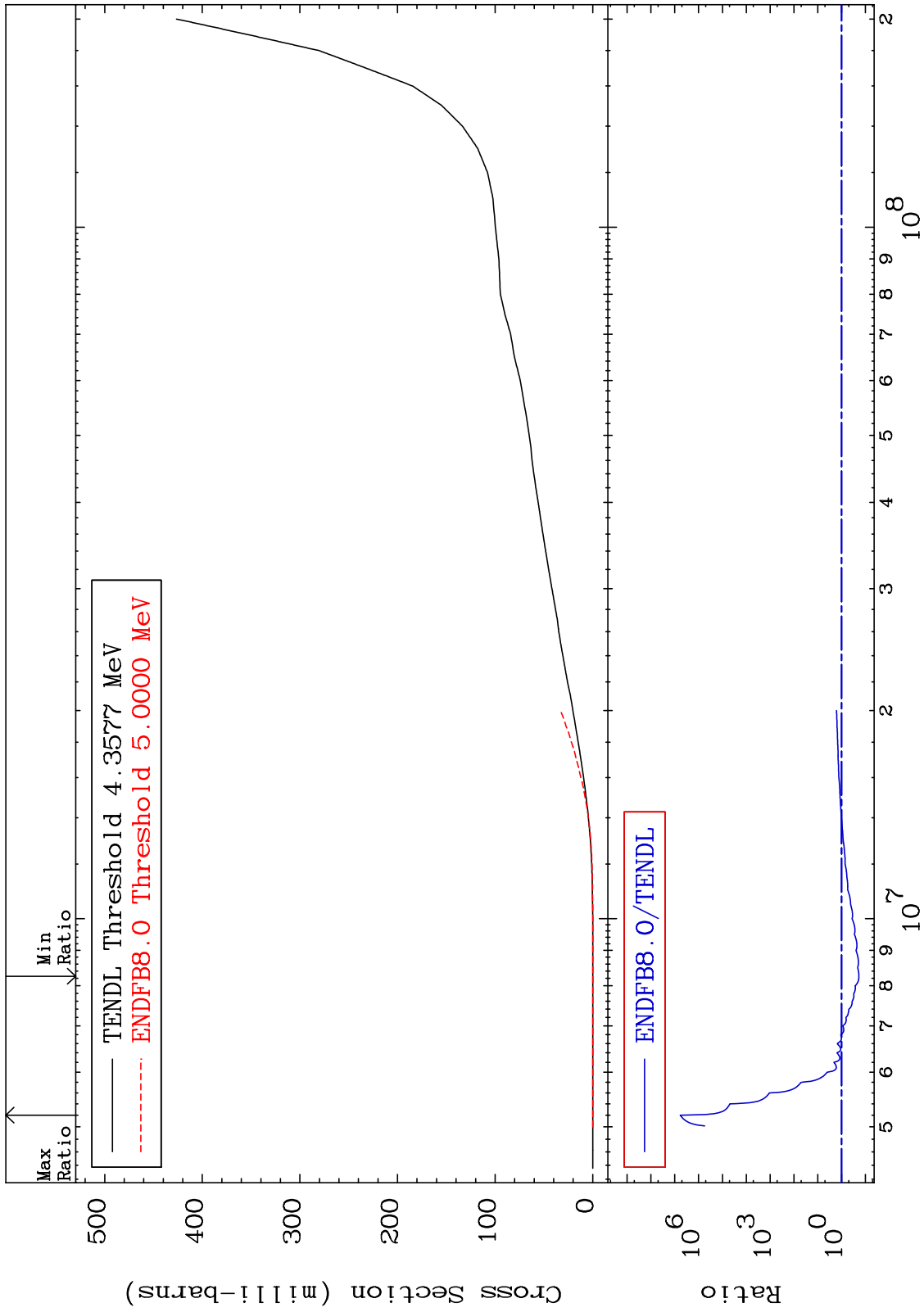
MAT 4128

Hydrogen Production Cross Section

41-Nb-94
-99.70 To 9999. %



MAT 4128 Deuterium Production Cross Section 41-Nb-94 -81.27 To 9999. %

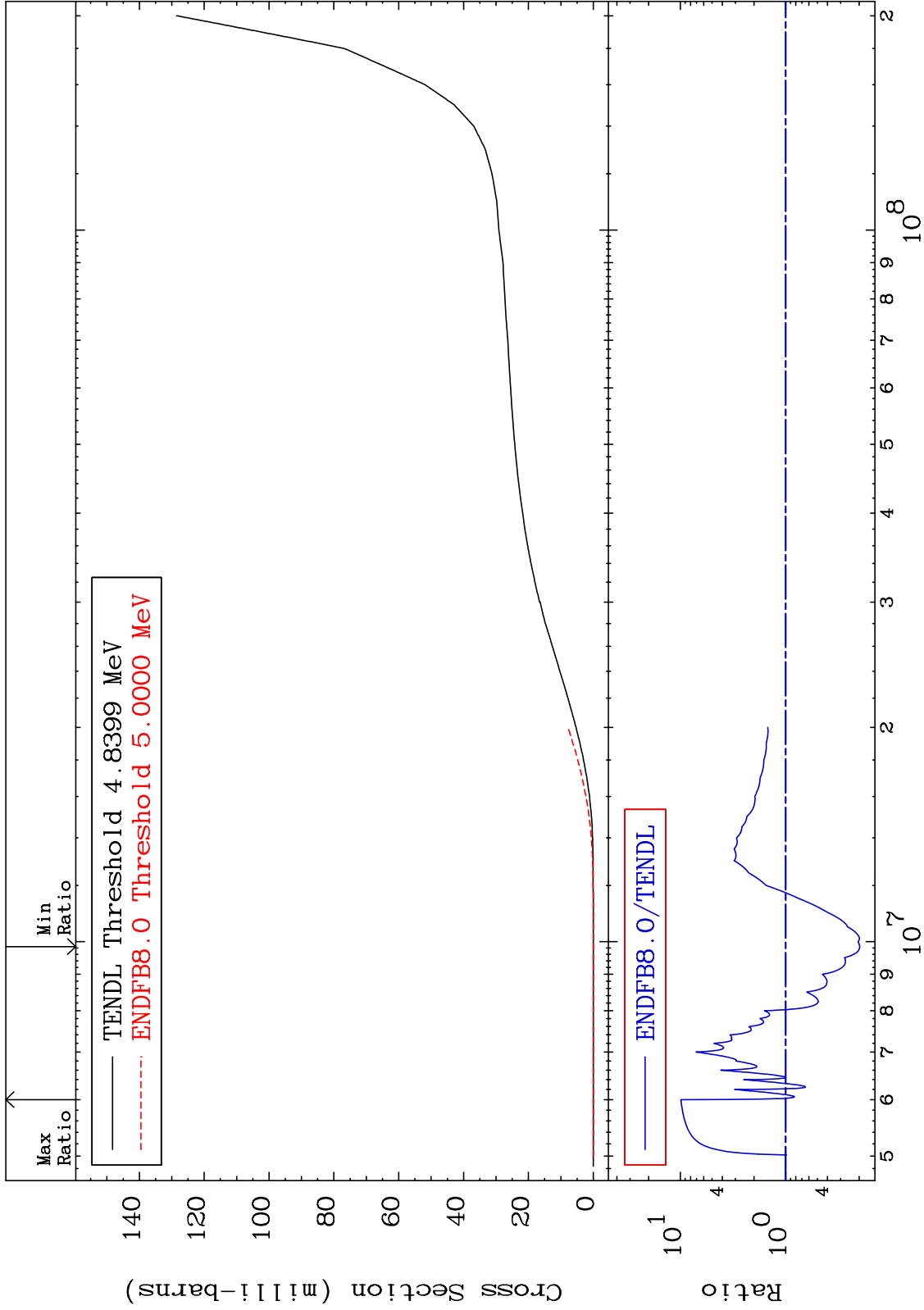


47 41-Nb-94 Incident Energy (eV)

MAT 4128

Tritium Production
Cross Section

41-Nb-94
-80.18 To 888.4 %



48

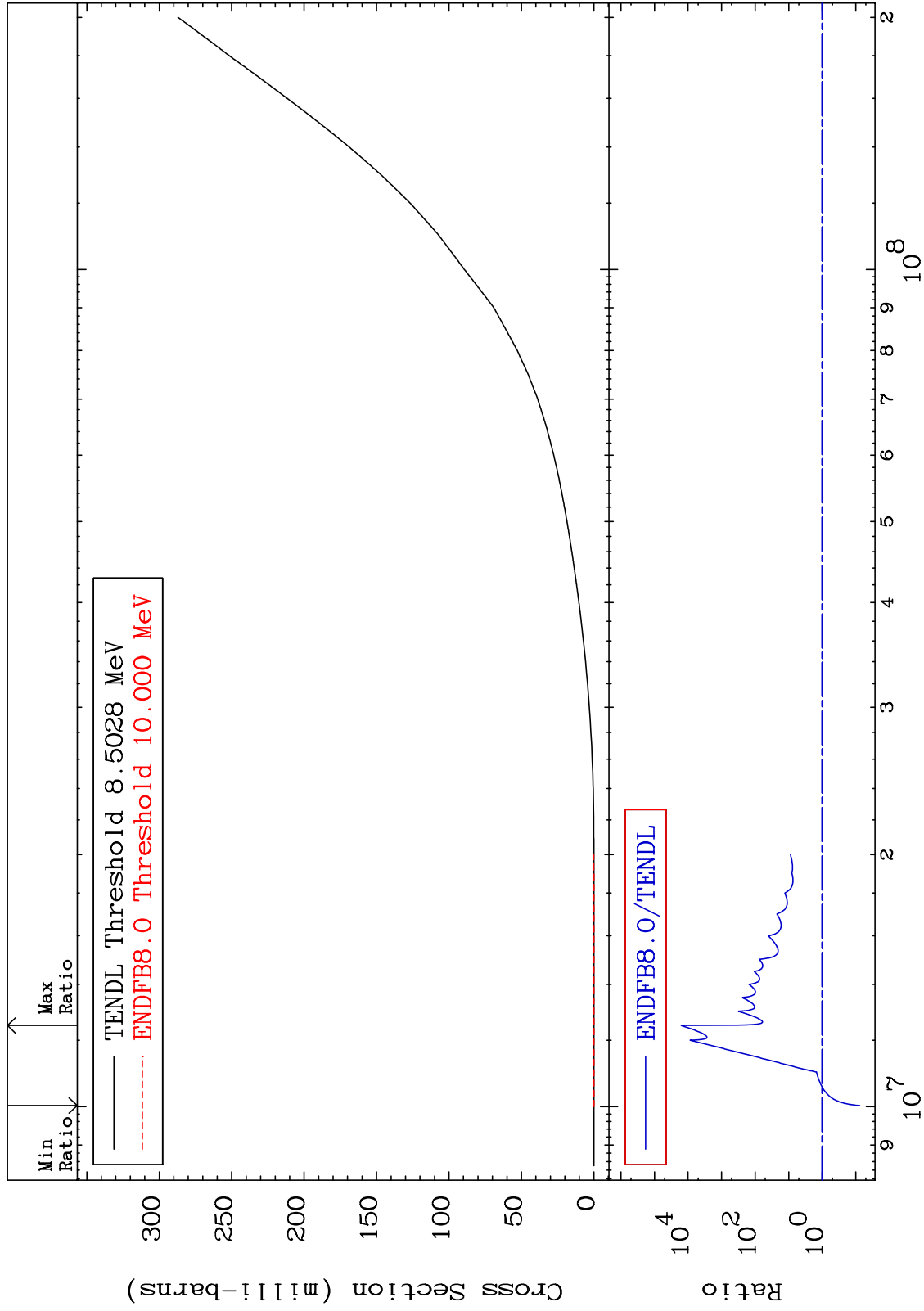
Incident Energy (eV)

41-Nb-94

MAT 4128

He-3 Production
Cross Section

41-Nb-94
-92.39 To 9999. %



49

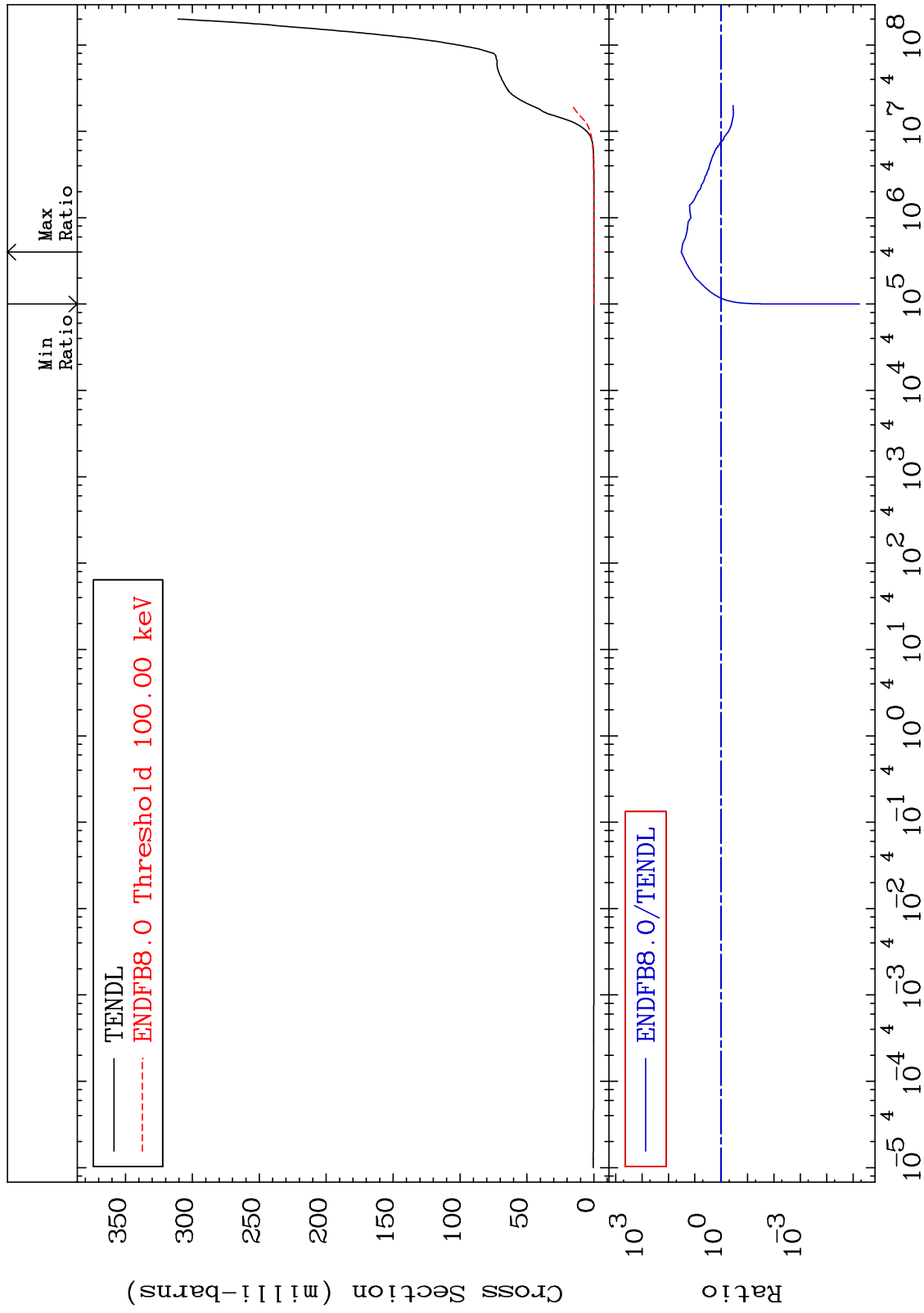
Incident Energy (eV)

41-Nb-94

MAT 4128

He-4 Production
Cross Section

41-Nb-94
-100.0 To 3170. %

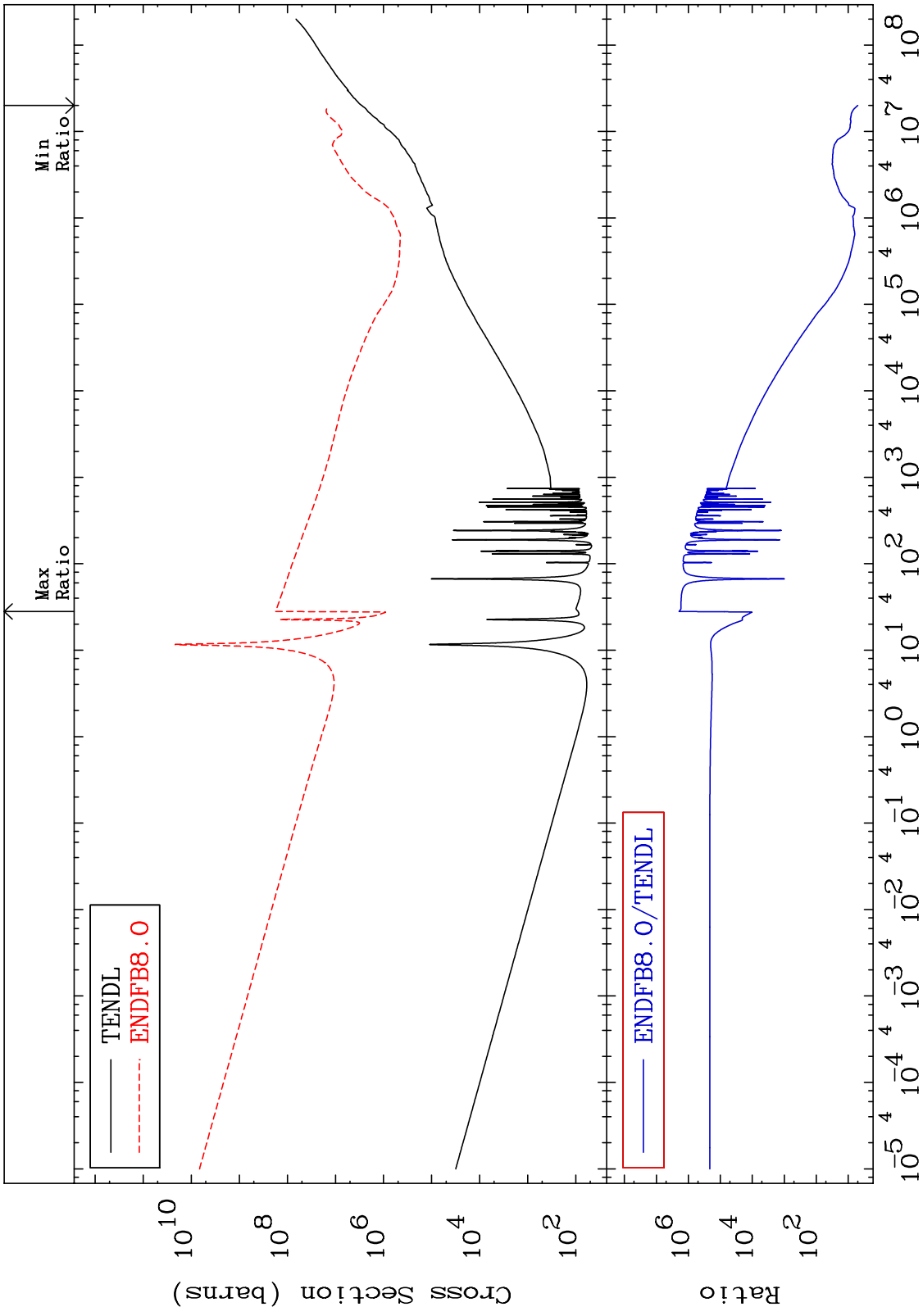


50

Incident Energy (eV)

41-Nb-94

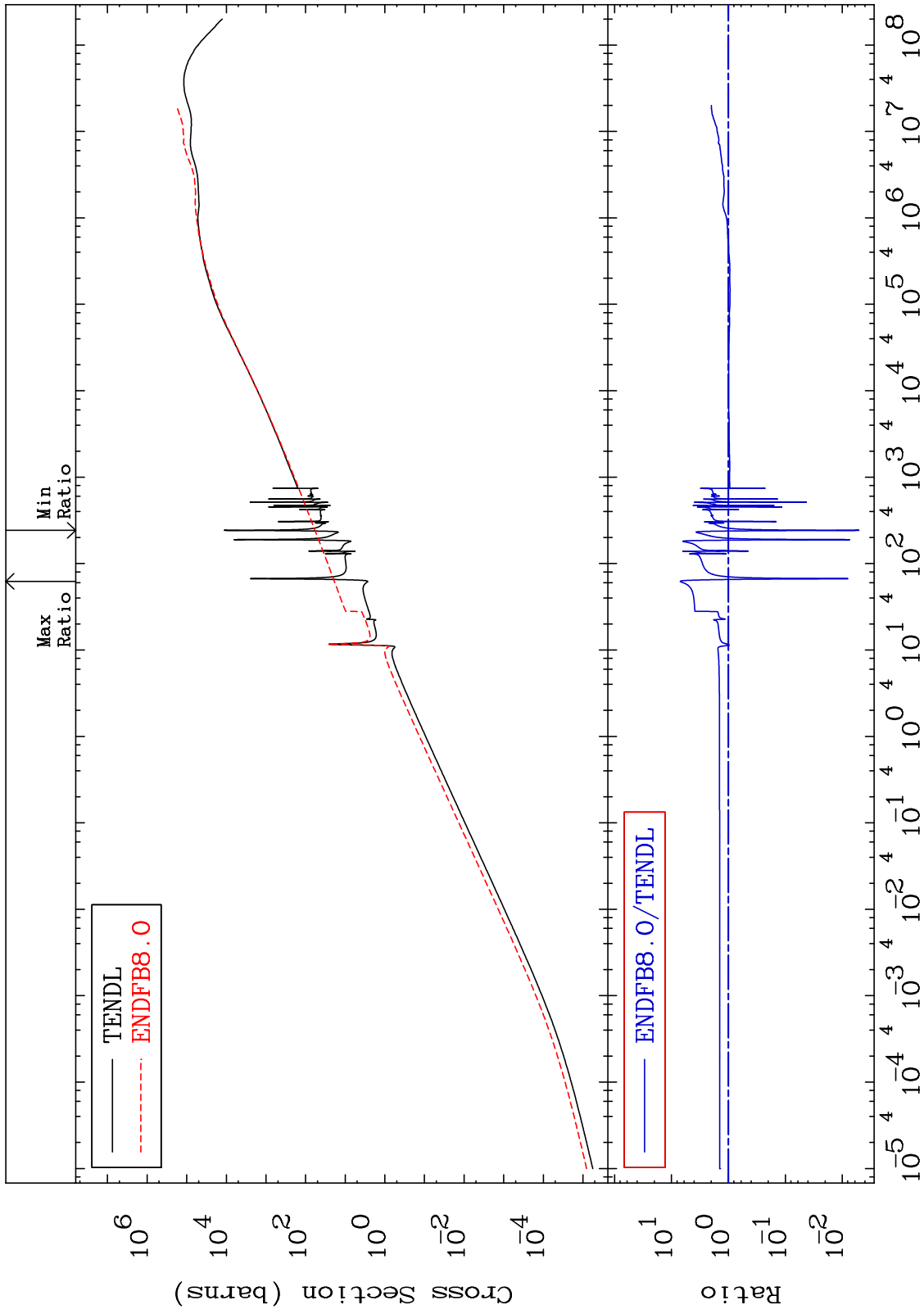
MAT 4128 Kerma total (eV-barns) Cross Section 41-Nb-94 399.2 To 9999. %



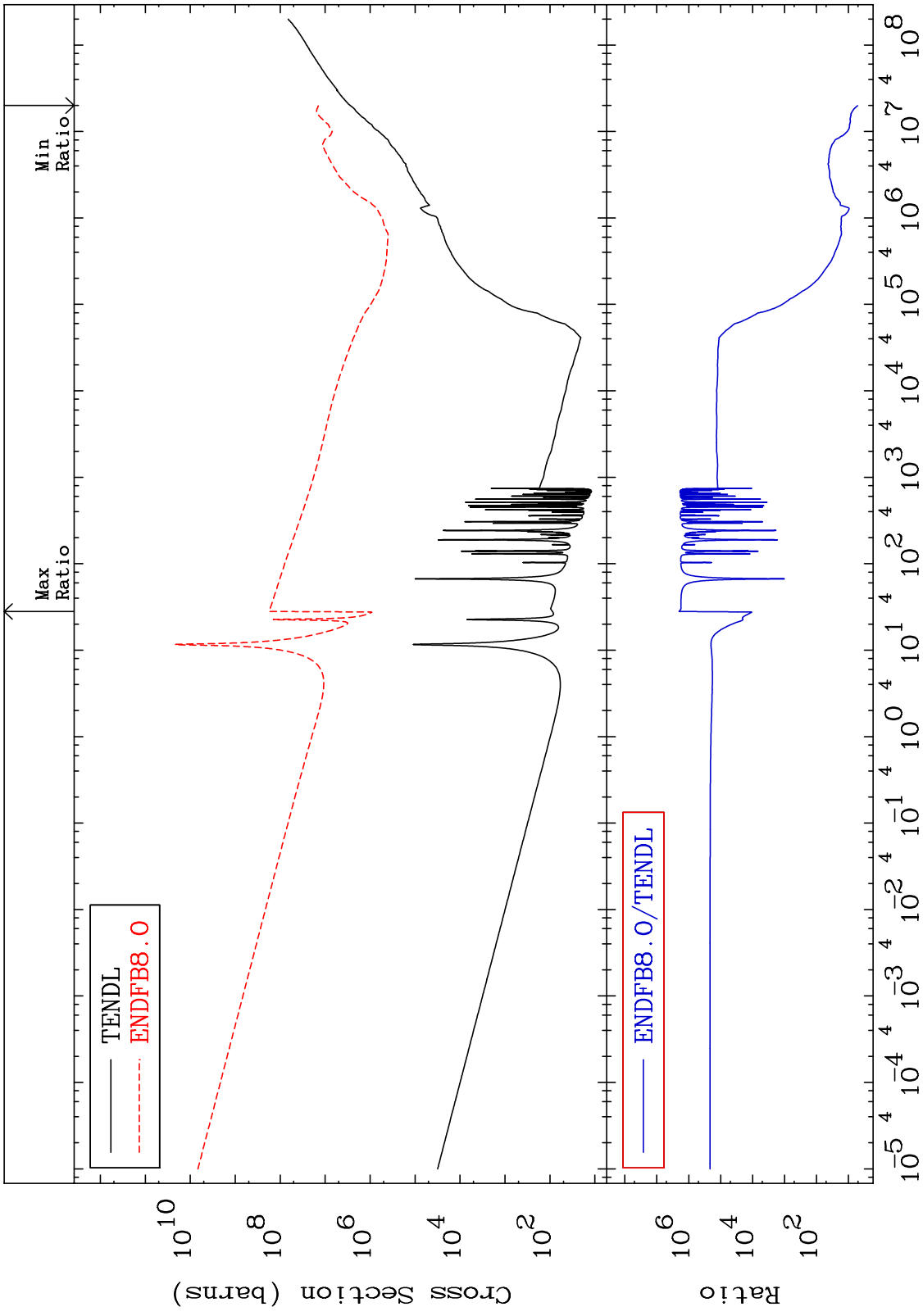
MAT 4128

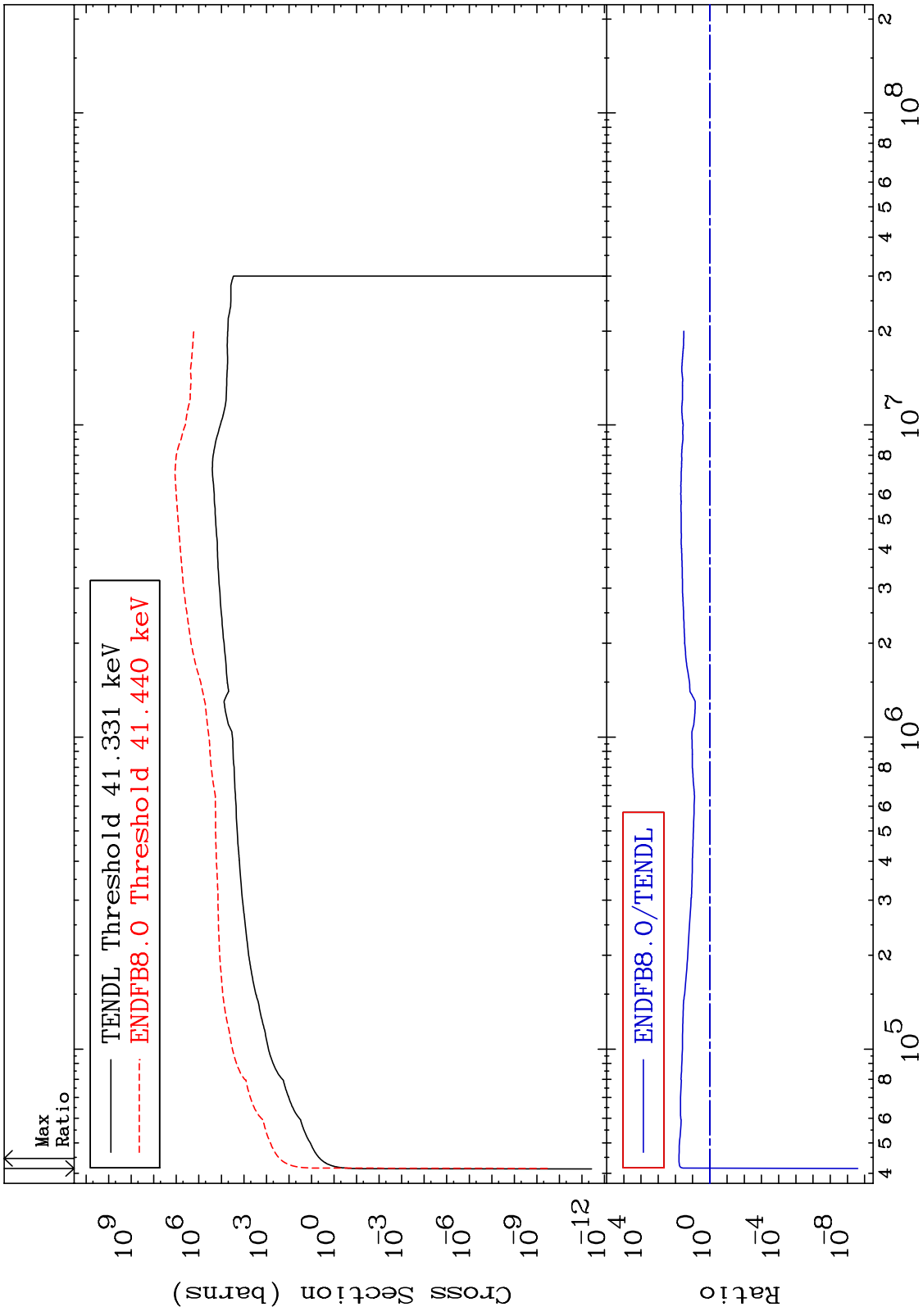
Kerma elastic
Cross Section

41-Nb-94
-99.49 To 602.2 %

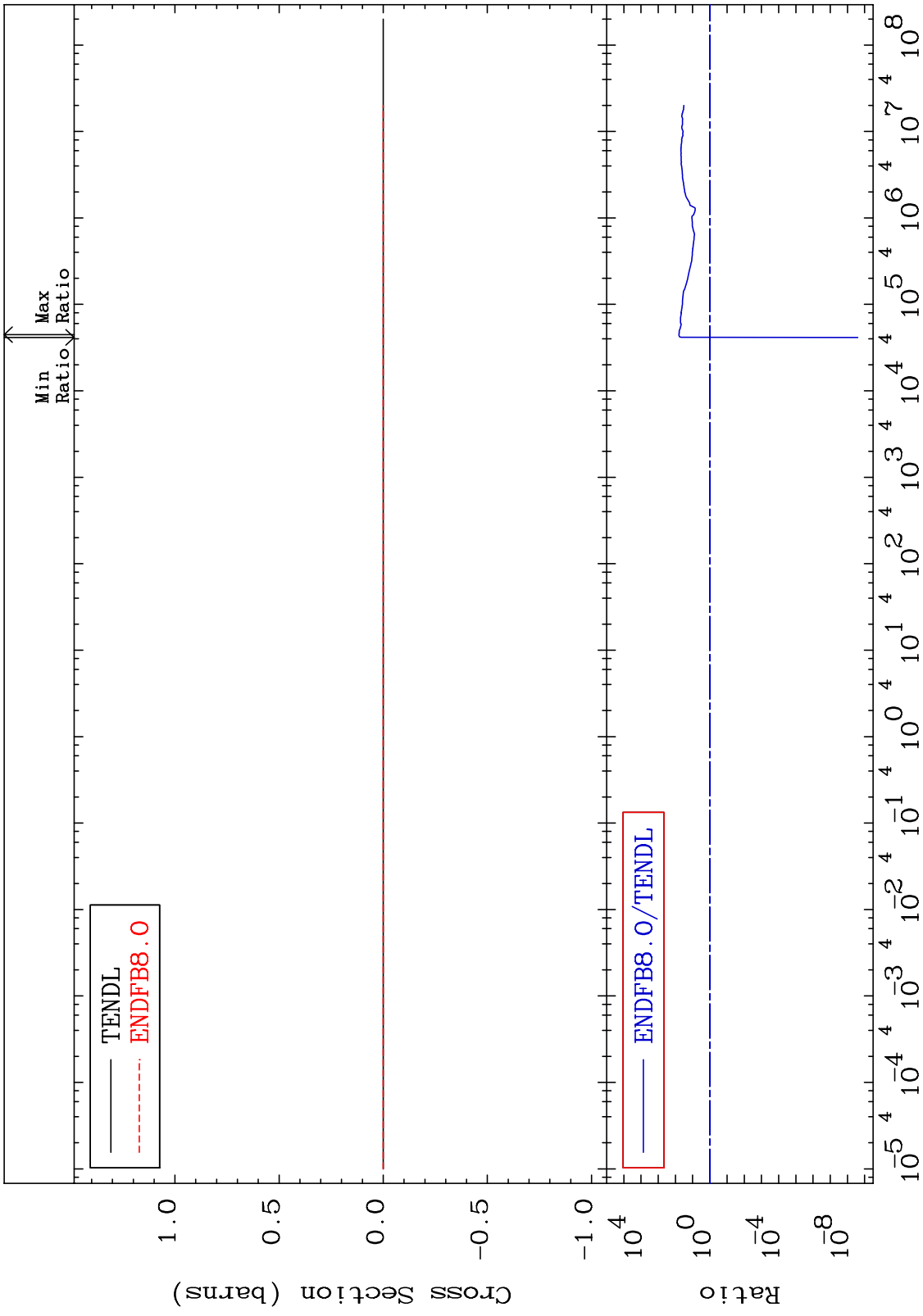


MAT 4128 Kerma non-elastic (all but mt2) 41-Nb-94
 Cross Section 409.0 To 9999. %





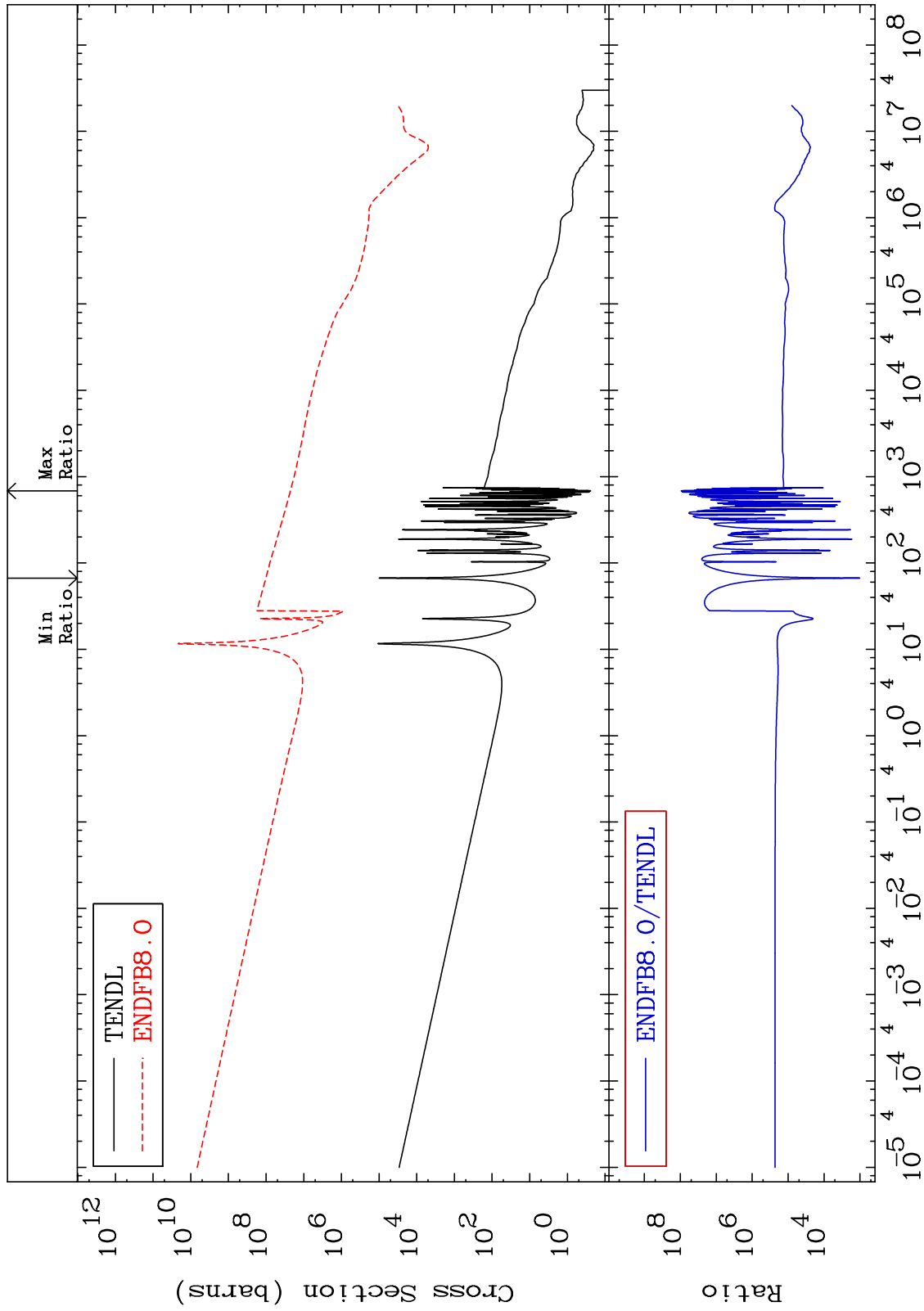
MAT 4128 Kerma fission (mt18 or mt19-20-21-38) 41-Nb-94
 Cross Section -100.0 To 6053. %



MAT 4128

Kerma capture (mt102)
Cross Section

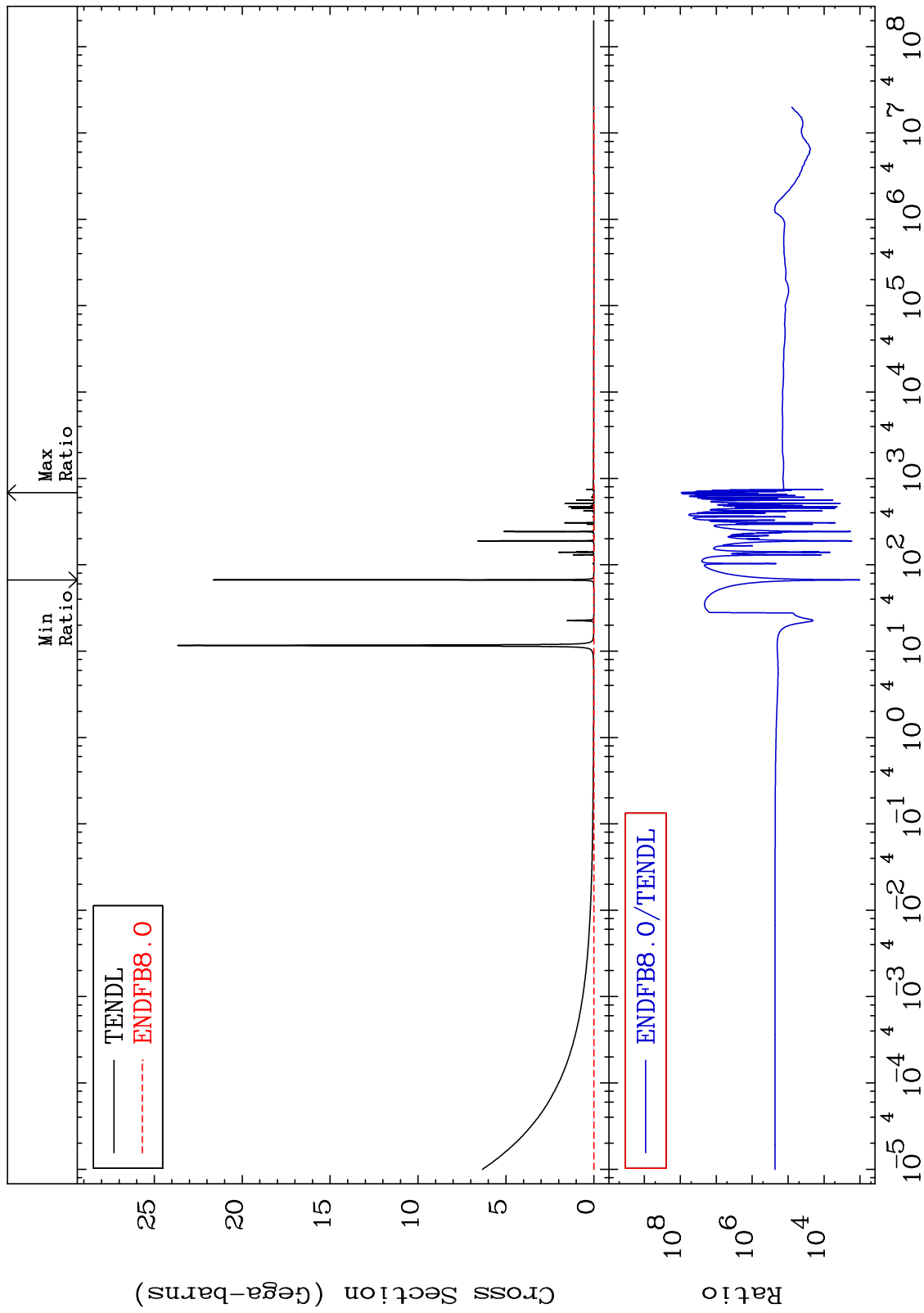
41-Nb-94
9999. To 9999. %



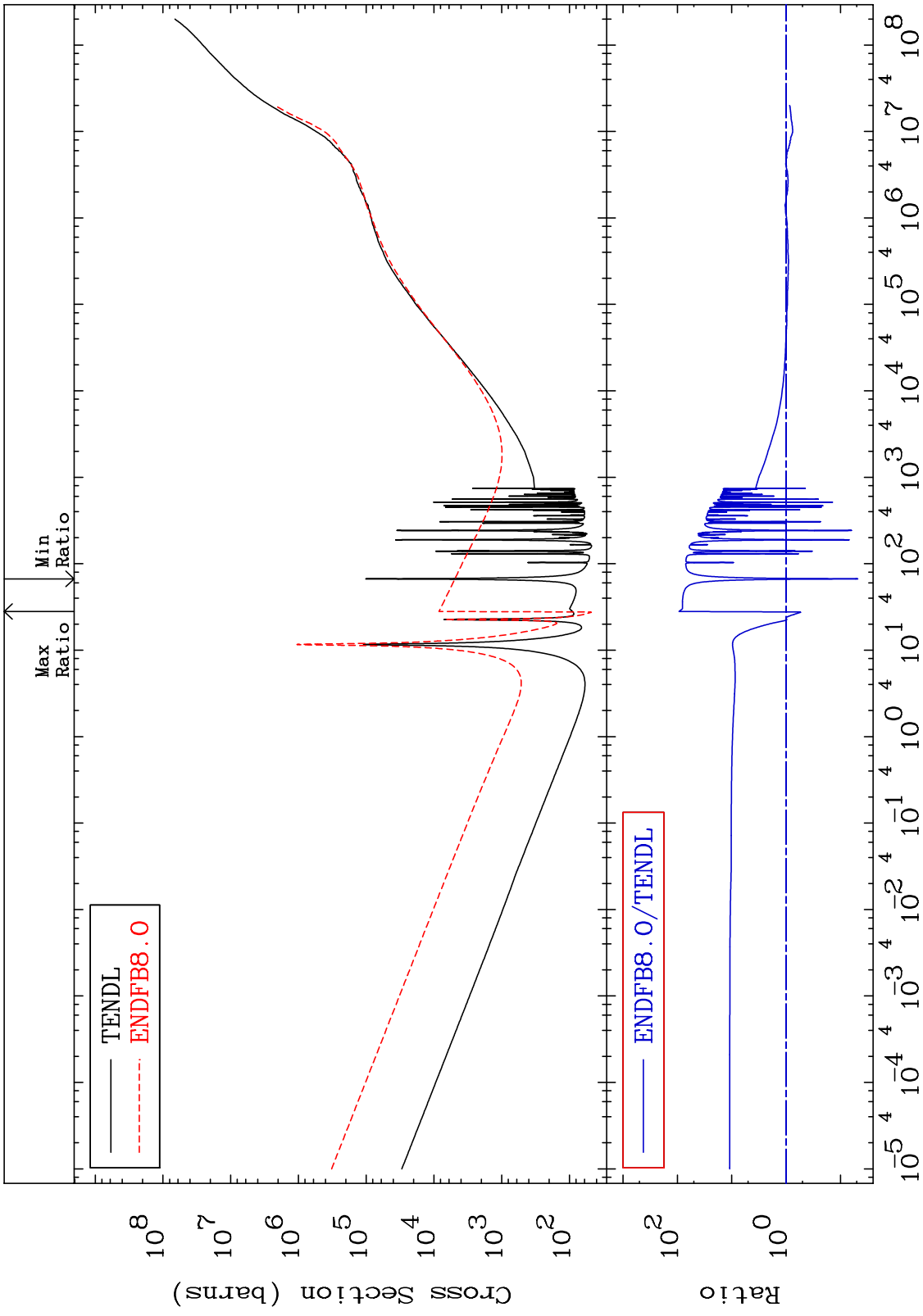
MAT 4128

Total photon (eV-barns)
Cross Section

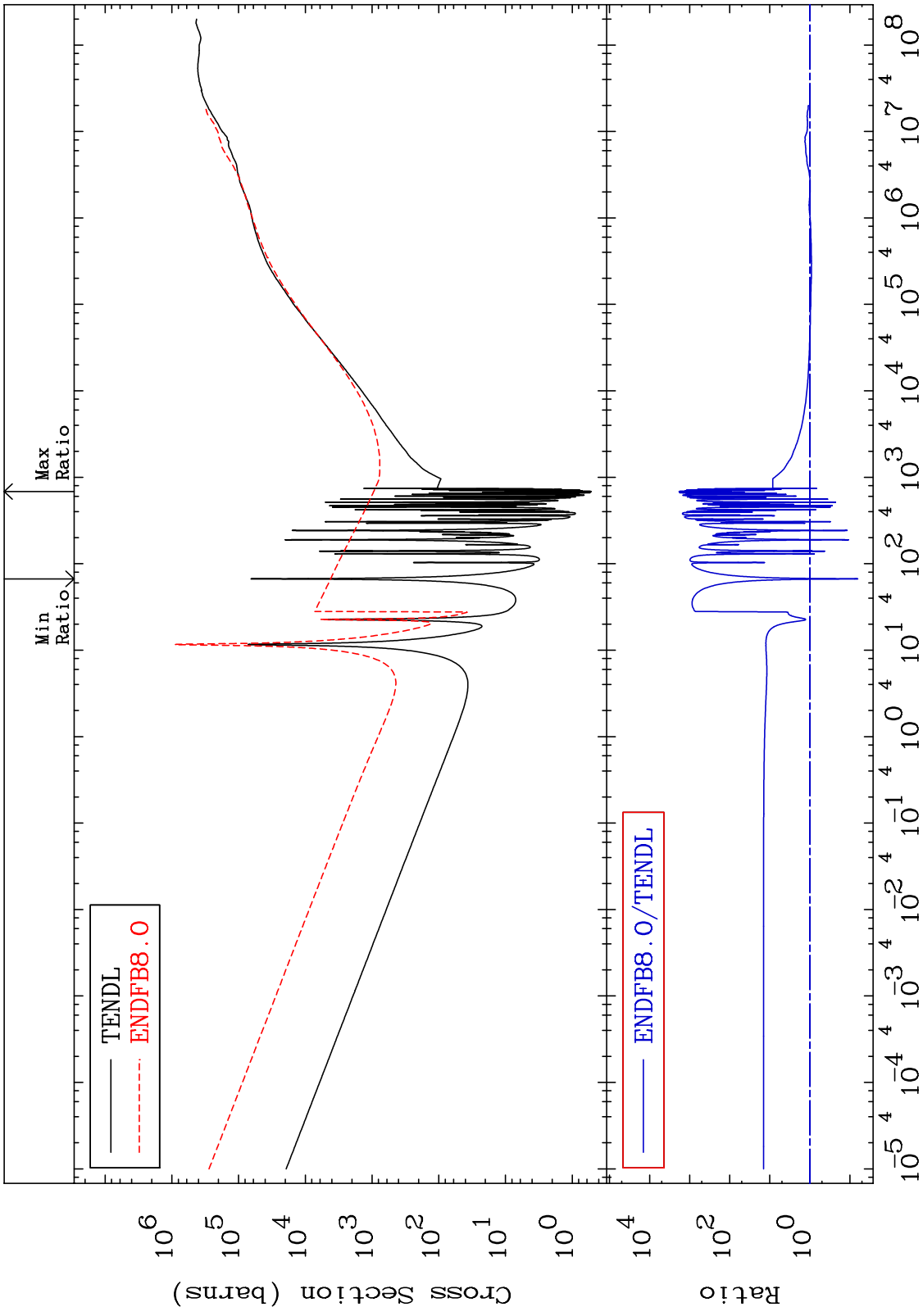
41-Nb-94
9999. To 9999. %



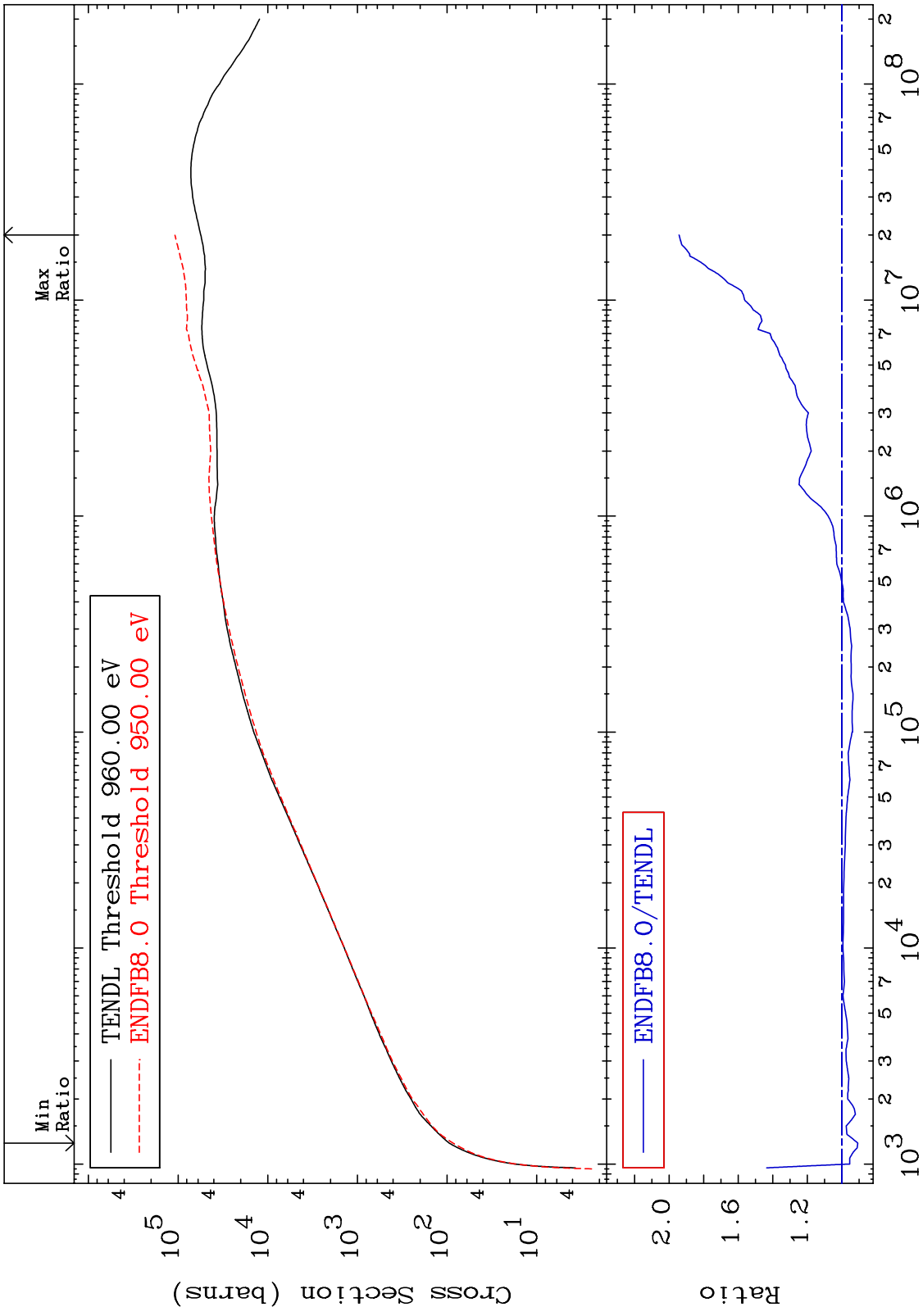
MAT 4128 Total kinematic kerma (high limit) 41-Nb-94
 Cross Section -95.21 To 9230. %



MAT 4128 Dpa total (eV-barns) 41-Nb-94
 -93.67 To 9999. %
 Cross Section



MAT 4128 Dpa elastic (mt2) Cross Section 41-Nb-94 -9.225 To 94.24 %

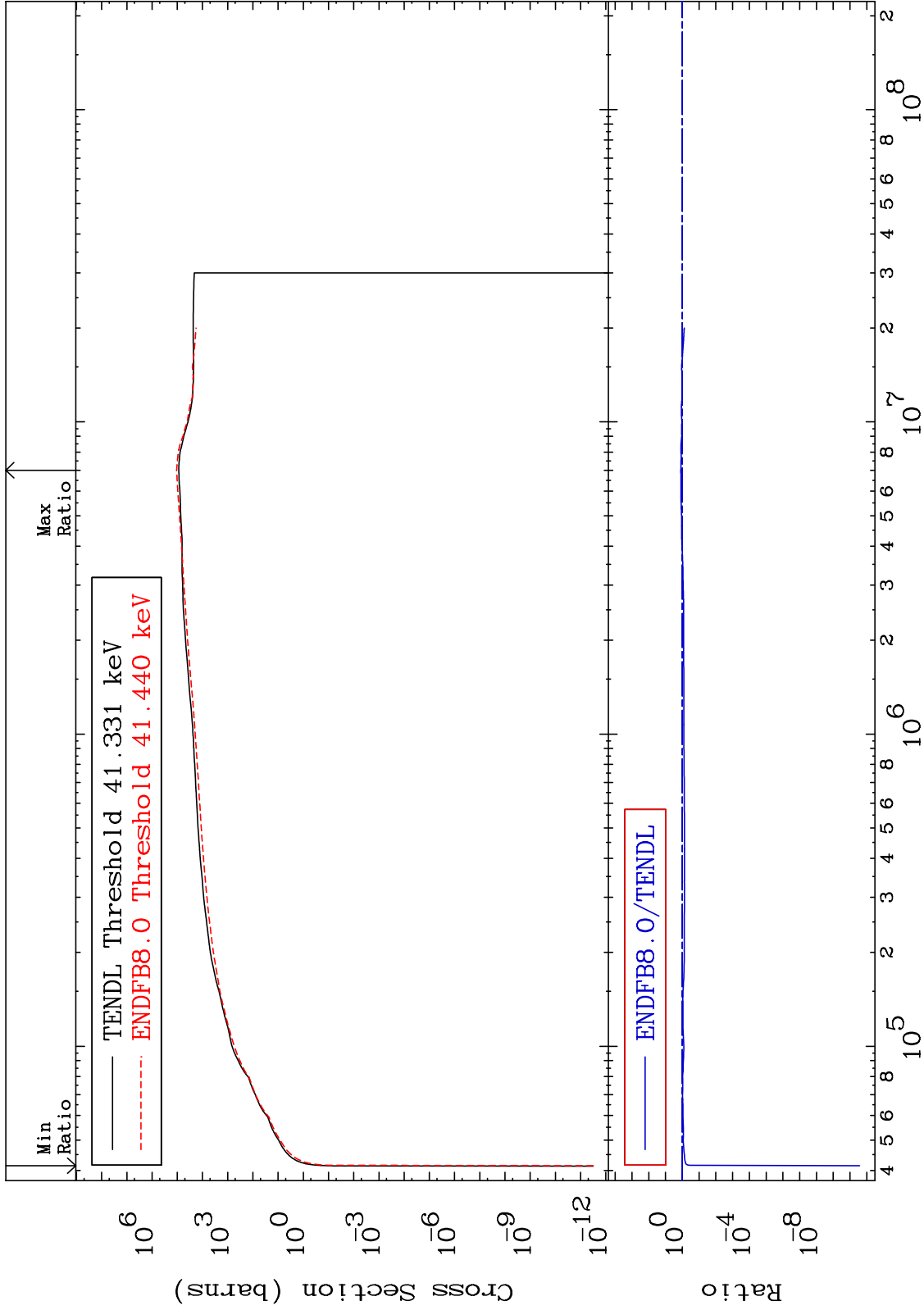


60 41-Nb-94

MAT 4128

Dpa inelastic (mt51-91)
Cross Section

41-Nb-94
-100.0 To 22.40 %



MAT 4128

Dpa disappearance (mt102 -120)
Cross Section

41-Nb-94
-93.67 To 9999. %

