

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

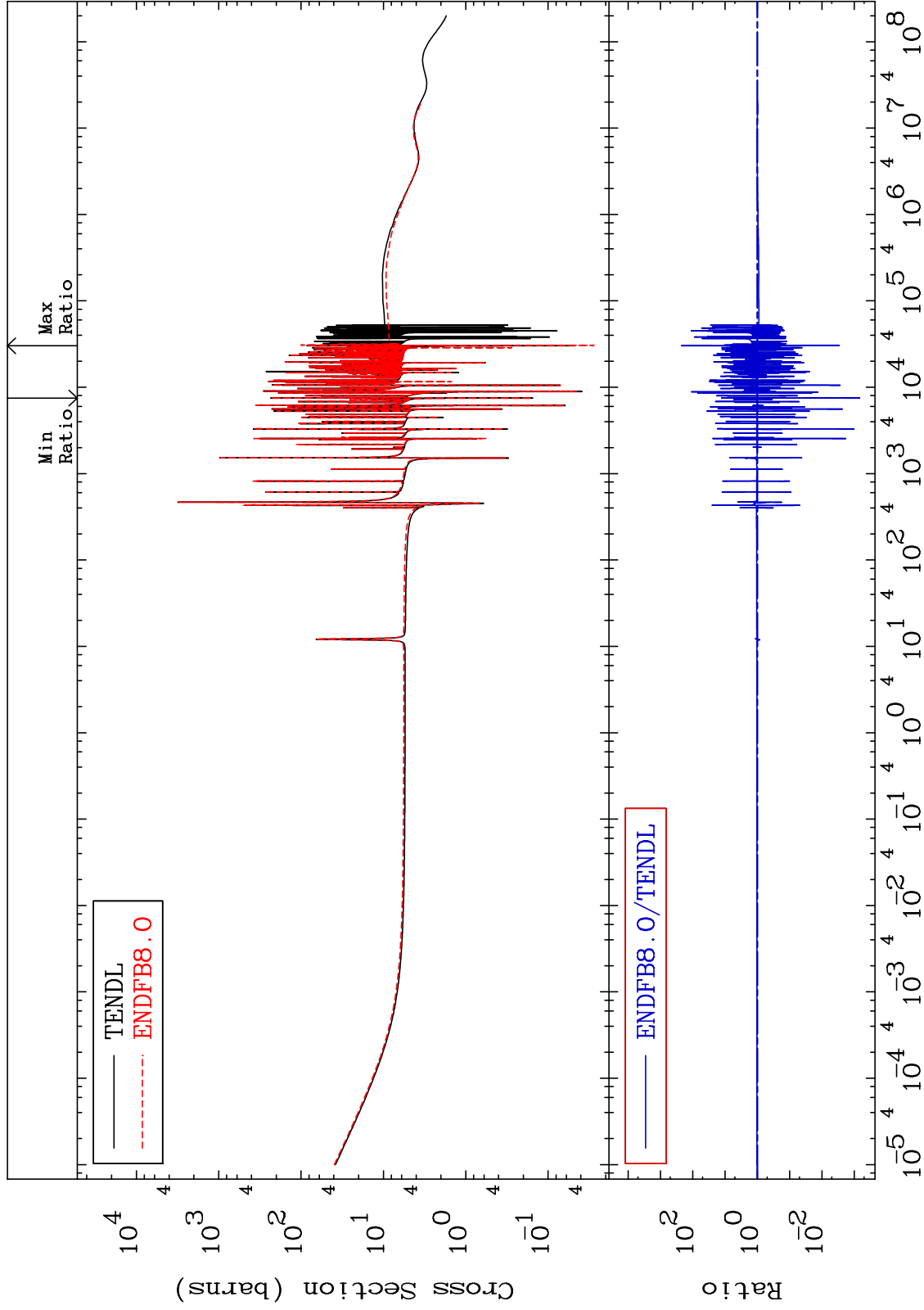
MAT 4243

Total

42-Mo-98

Cross Section

-99.93 To 9999. %



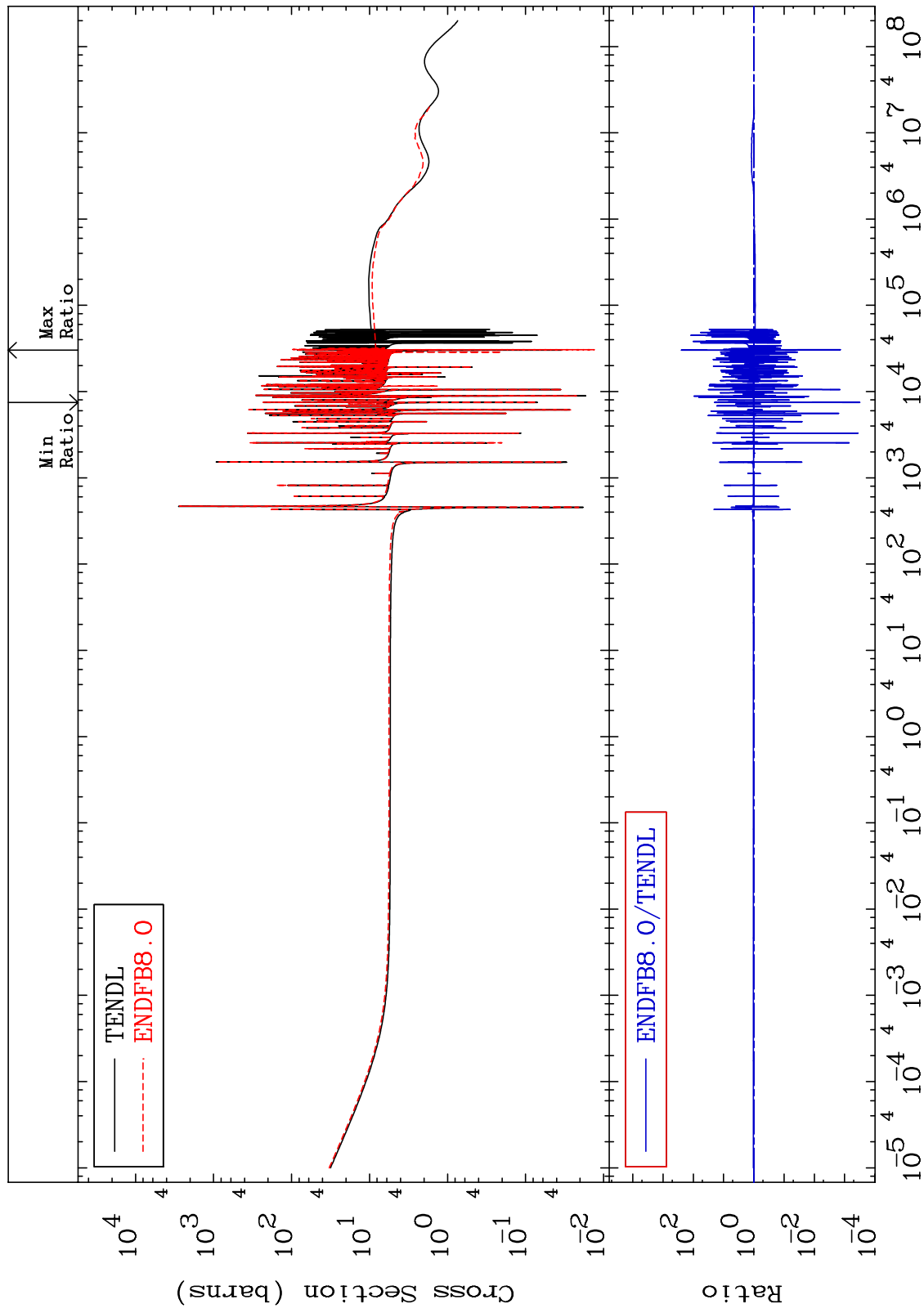
Incident Energy (eV)

42-Mo-98

MAT 4243

Elastic
Cross Section

42-Mo-98
-99.97 To 9999. %



MAT 4243

Inelastic
Cross Section

42-Mo-98
-20.97 To 1.733 %

Min
Ratio

Max
Ratio

— TENDL Threshold 742.32 keV
- - - ENDFB8.0 Threshold 742.32 keV

Cross Section (barns)

2.0

1.5

1.0

0.5

0.0

— ENDFB8.0/TENDL

Ratio

1.0

0.9

0.8

7

8

10⁶

2

3

4

5

6

7

8

10⁷

2

3

4

5

6

7

8

3

Incident Energy (eV)

42-Mo-98

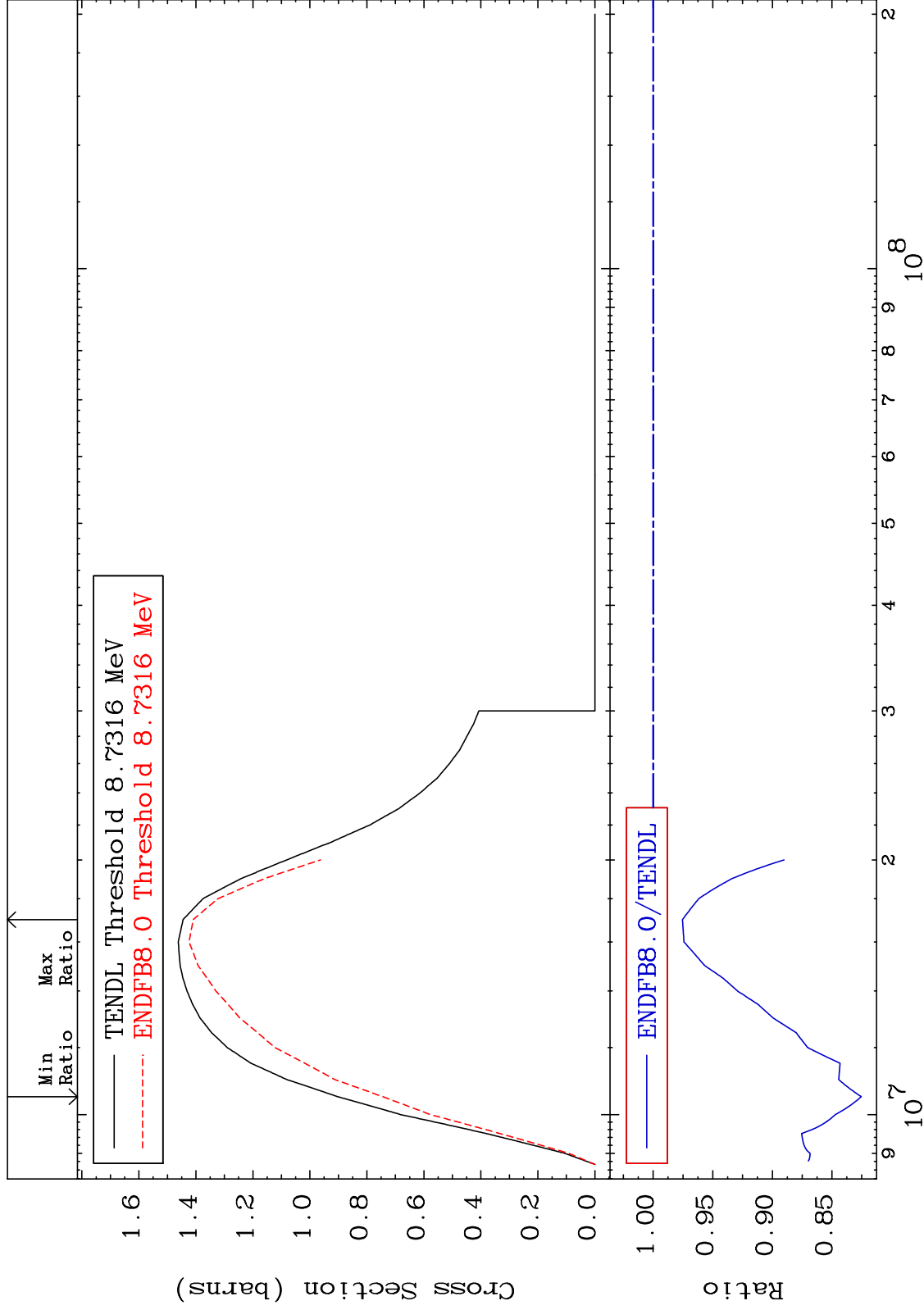
MAT 4243

(n,2n)

42-Mo-98

Cross Section

-17.46 To -2.459%



4

Incident Energy (eV)

42-Mo-98

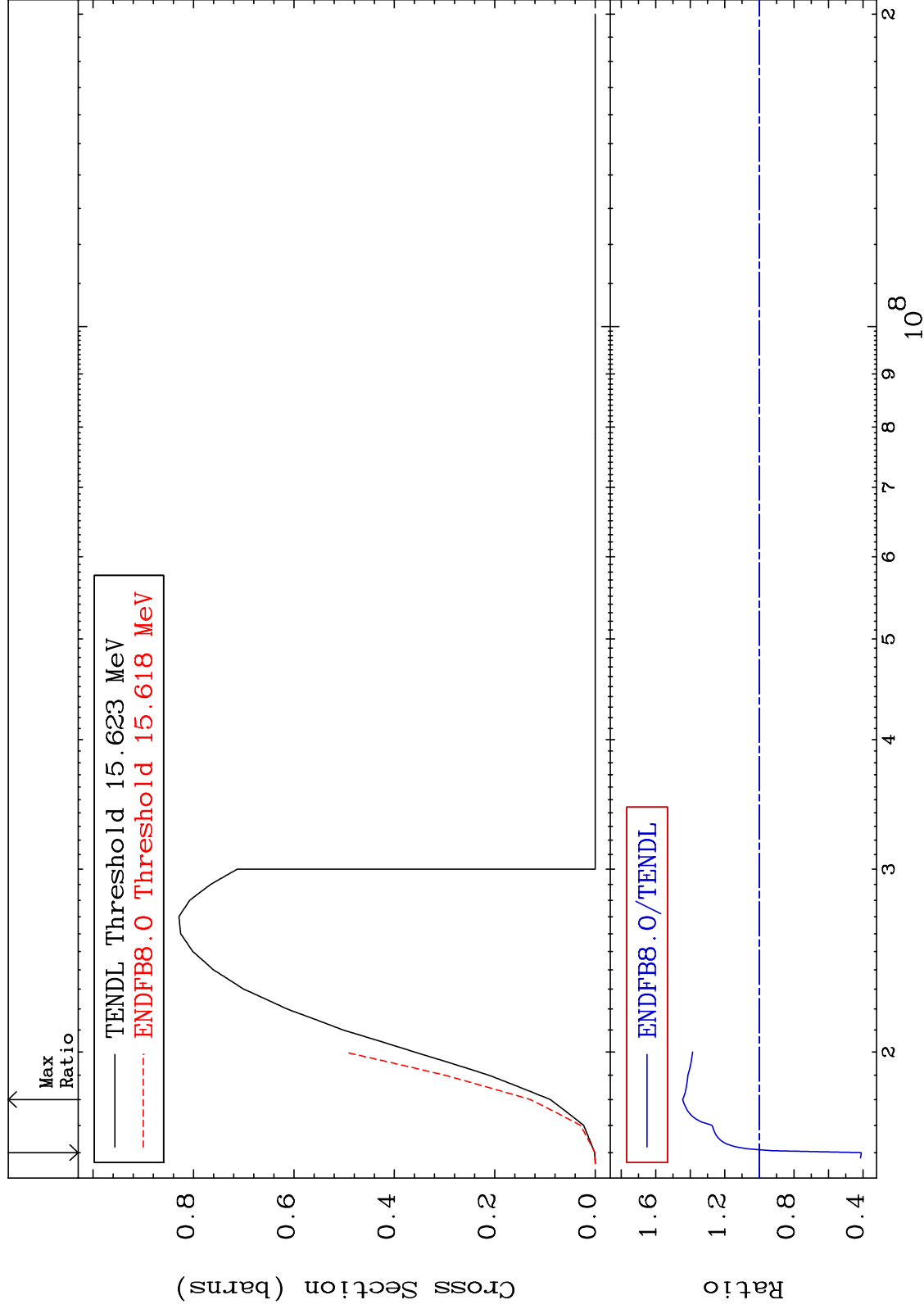
MAT 4243

(n,3n)

42-Mo-98

Cross Section

-59.03 To 44.40 %



5

Incident Energy (eV)

42-Mo-98

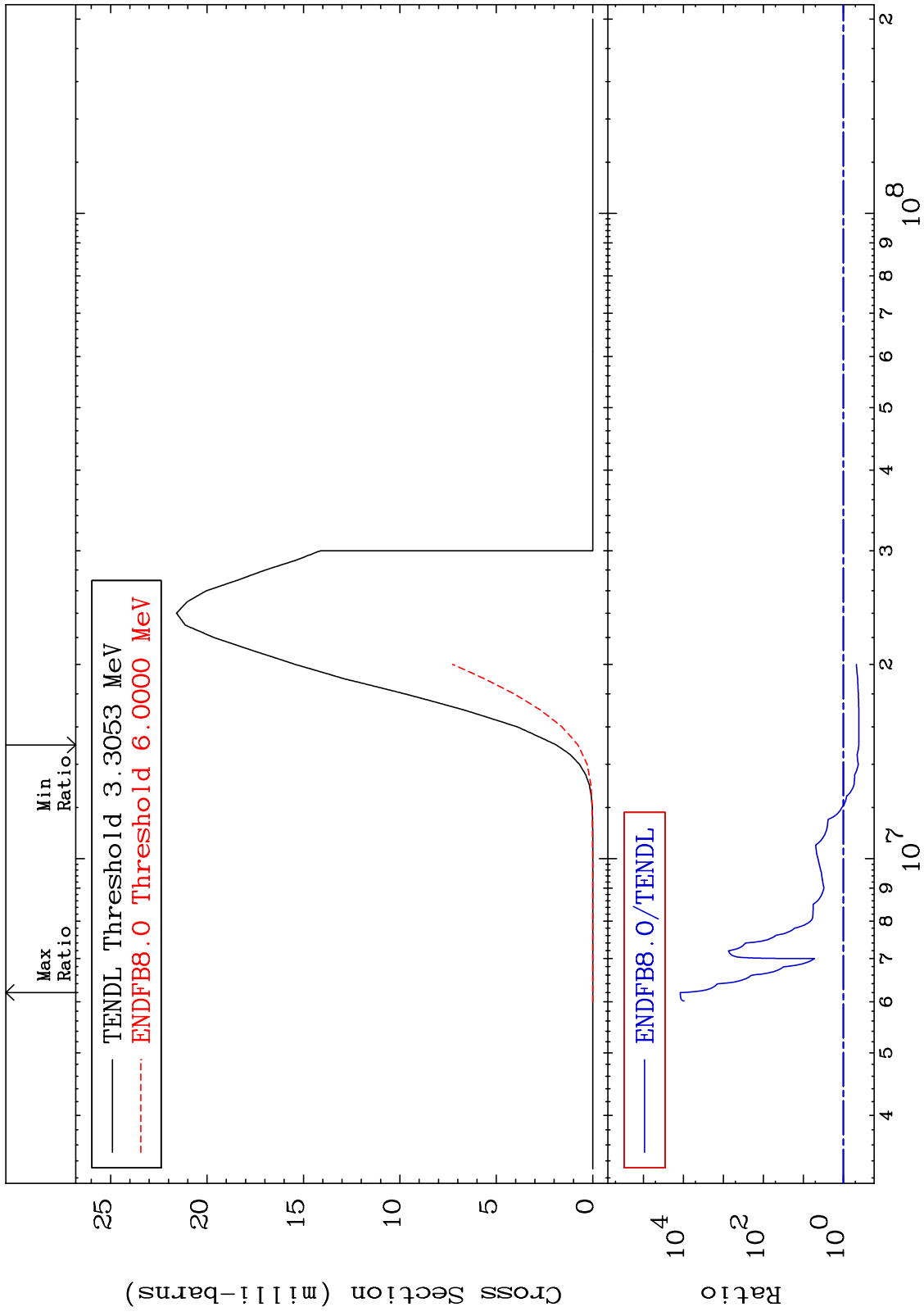
MAT 4243

(n, n') α

42-Mo-98

Cross Section

-59.33 To 9999. %

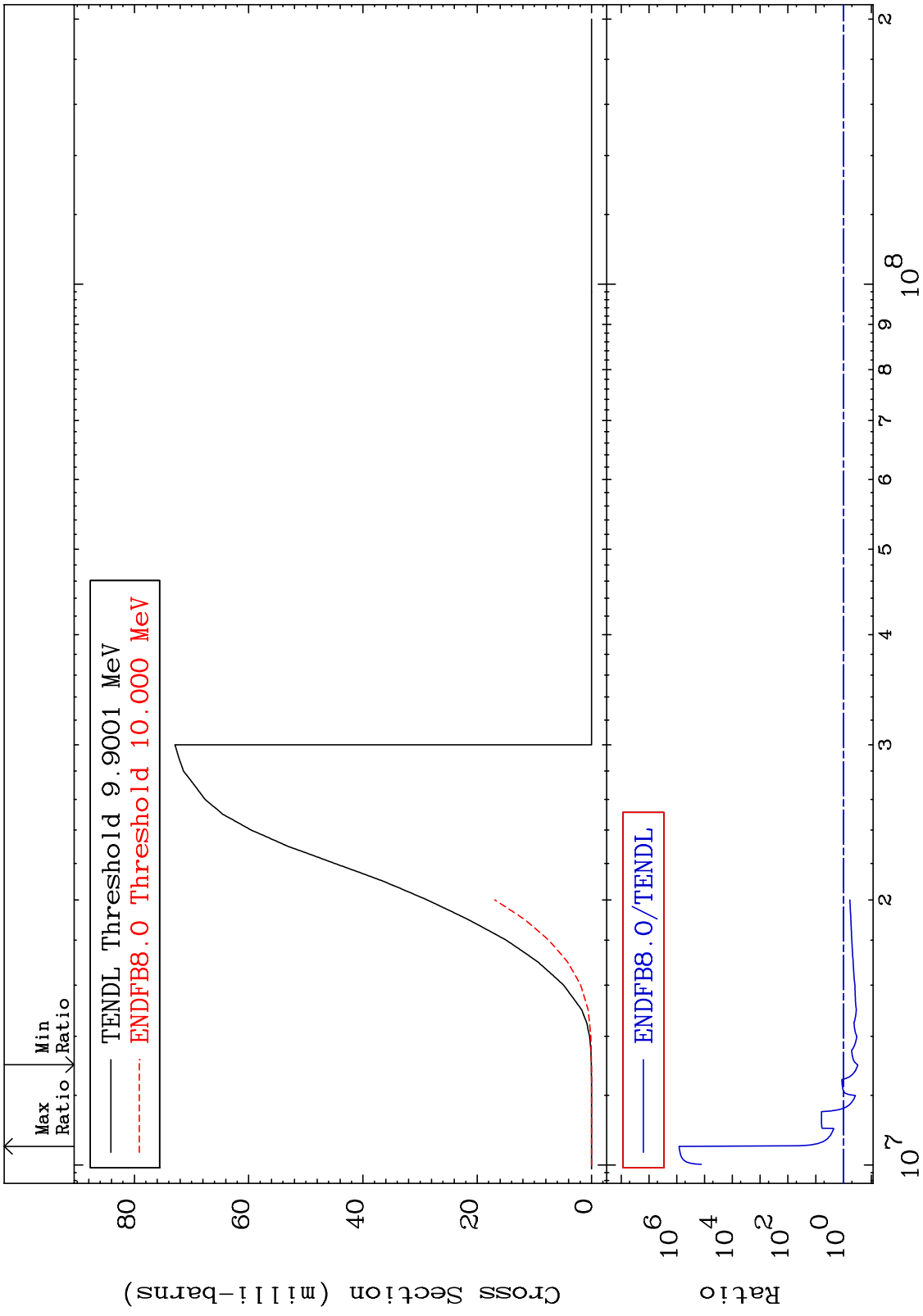


42-Mo-98

Incident Energy (eV)

6

MAT 4243 (n,n') p 42-Mo-98
Cross Section -69.49 To 9999. %

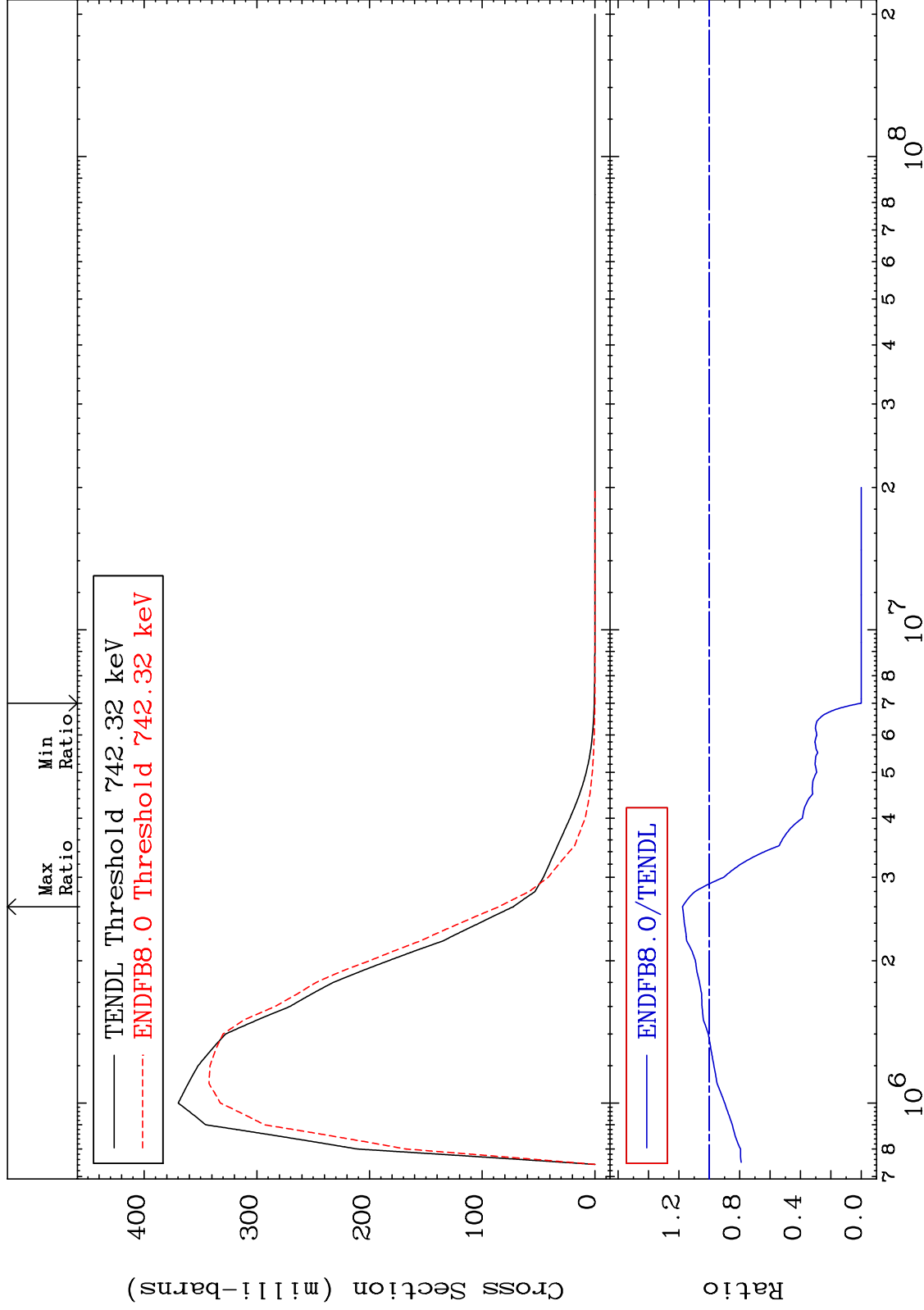


Incident Energy (eV) 42-Mo-98

MAT 4243

MT= 51 (n,n') Level
Cross Section

42-Mo-98
-100.0 To 17.68 %



8

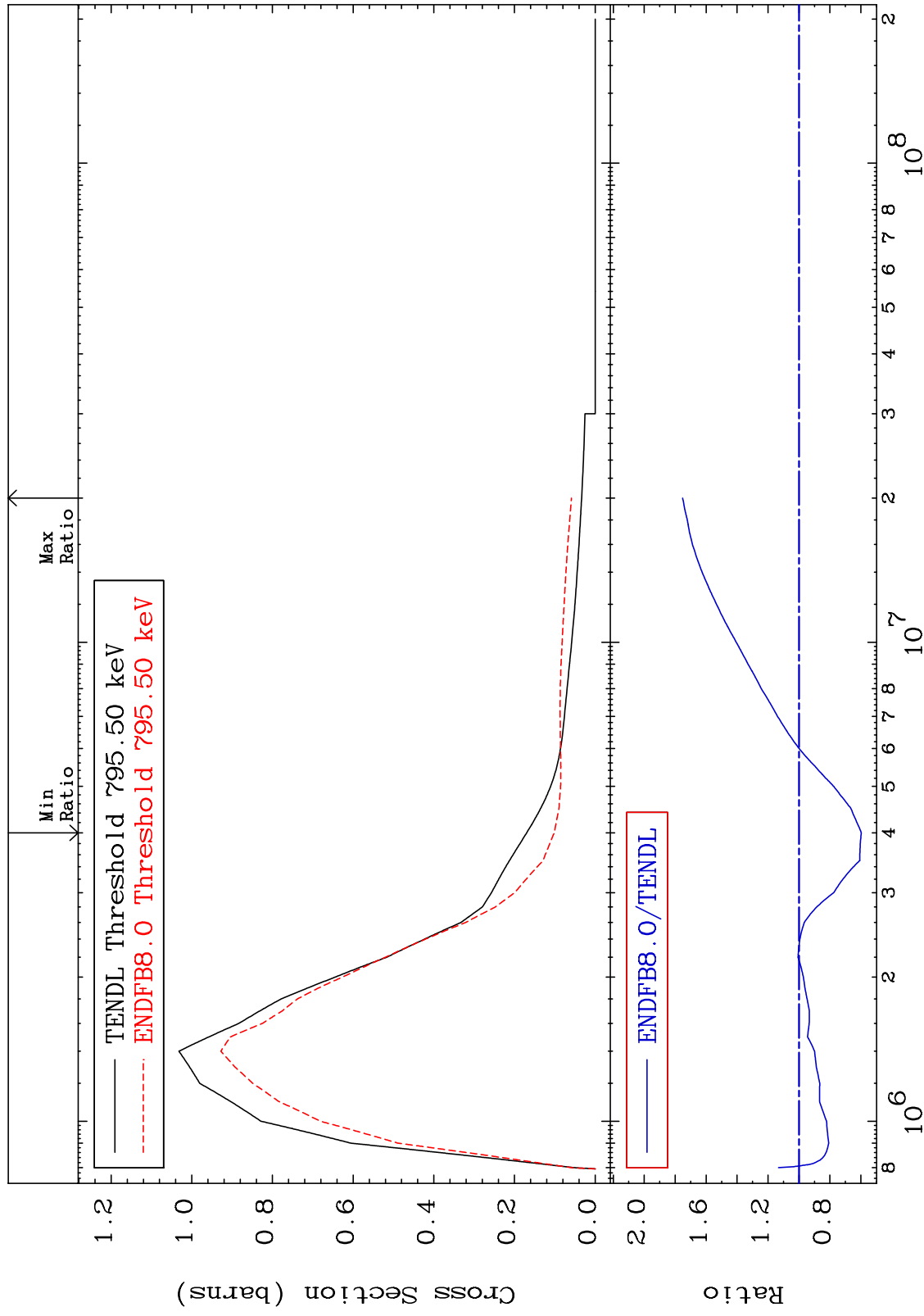
Incident Energy (eV)

42-Mo-98

MAT 4243

MT= 52 (n,n') Level
Cross Section

42-Mo-98
-40.29 To 75.16 %



9

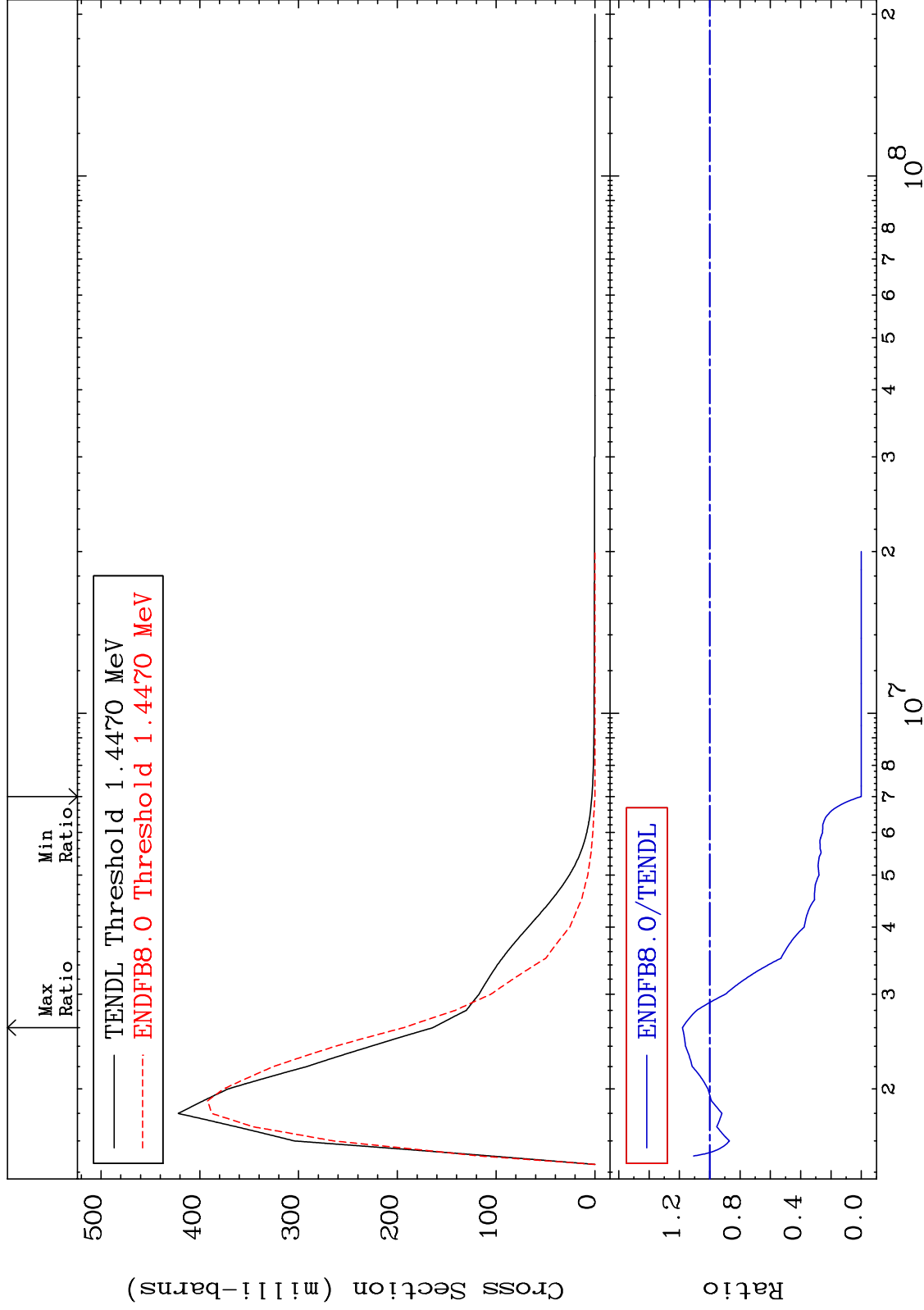
Incident Energy (eV)

42-Mo-98

MAT 4243

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

42-Mo-98
-100.0 To 17.97 %

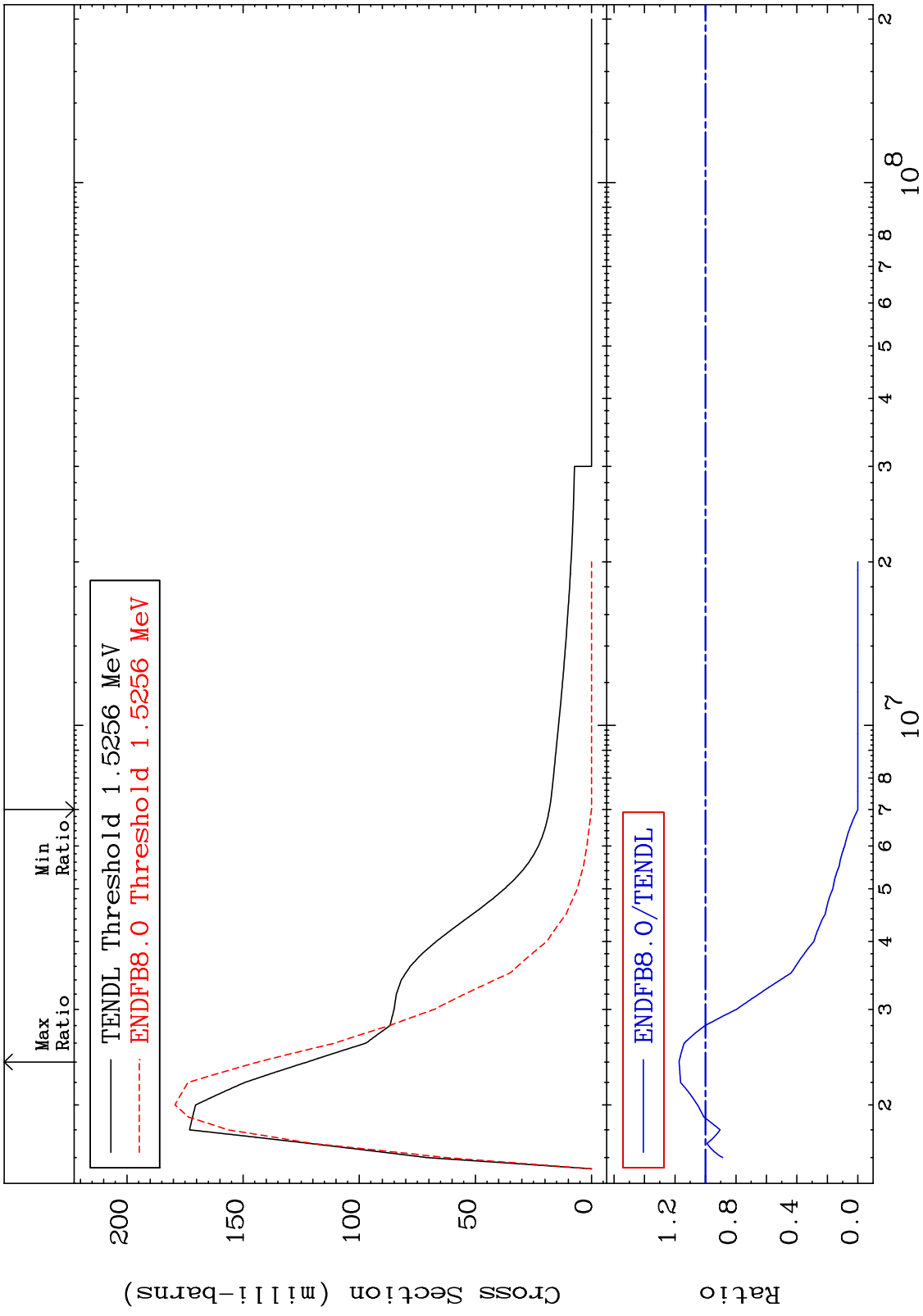


10

Incident Energy (eV)

42-Mo-98

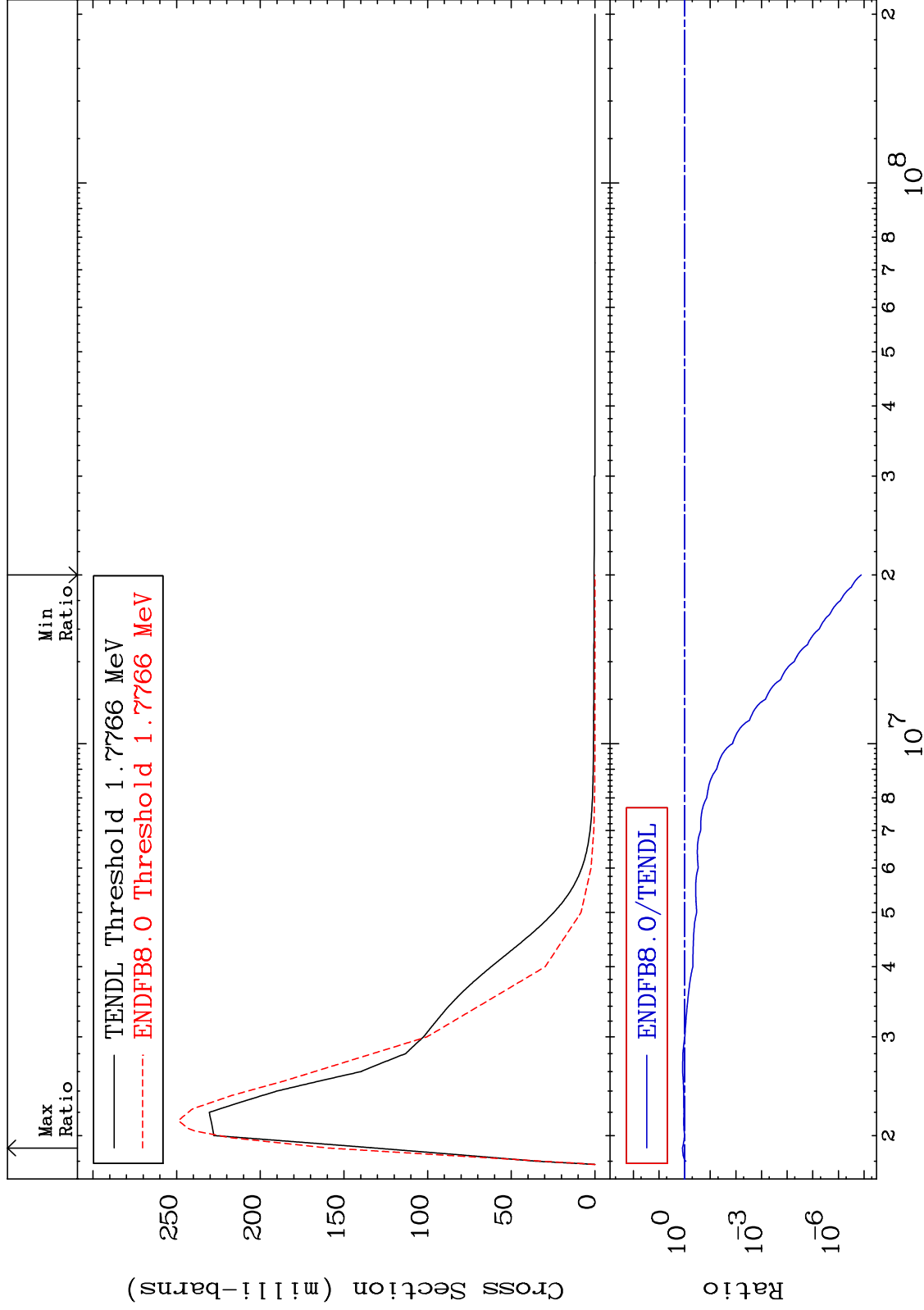
MAT 4243 MT= 54 (n,n') Level Cross Section -100.0 To 17.33 % 42-Mo-98



MAT 4243

MT= 55 (n,n') Level
Cross Section

42-Mo-98
-100.0 To 21.20 %

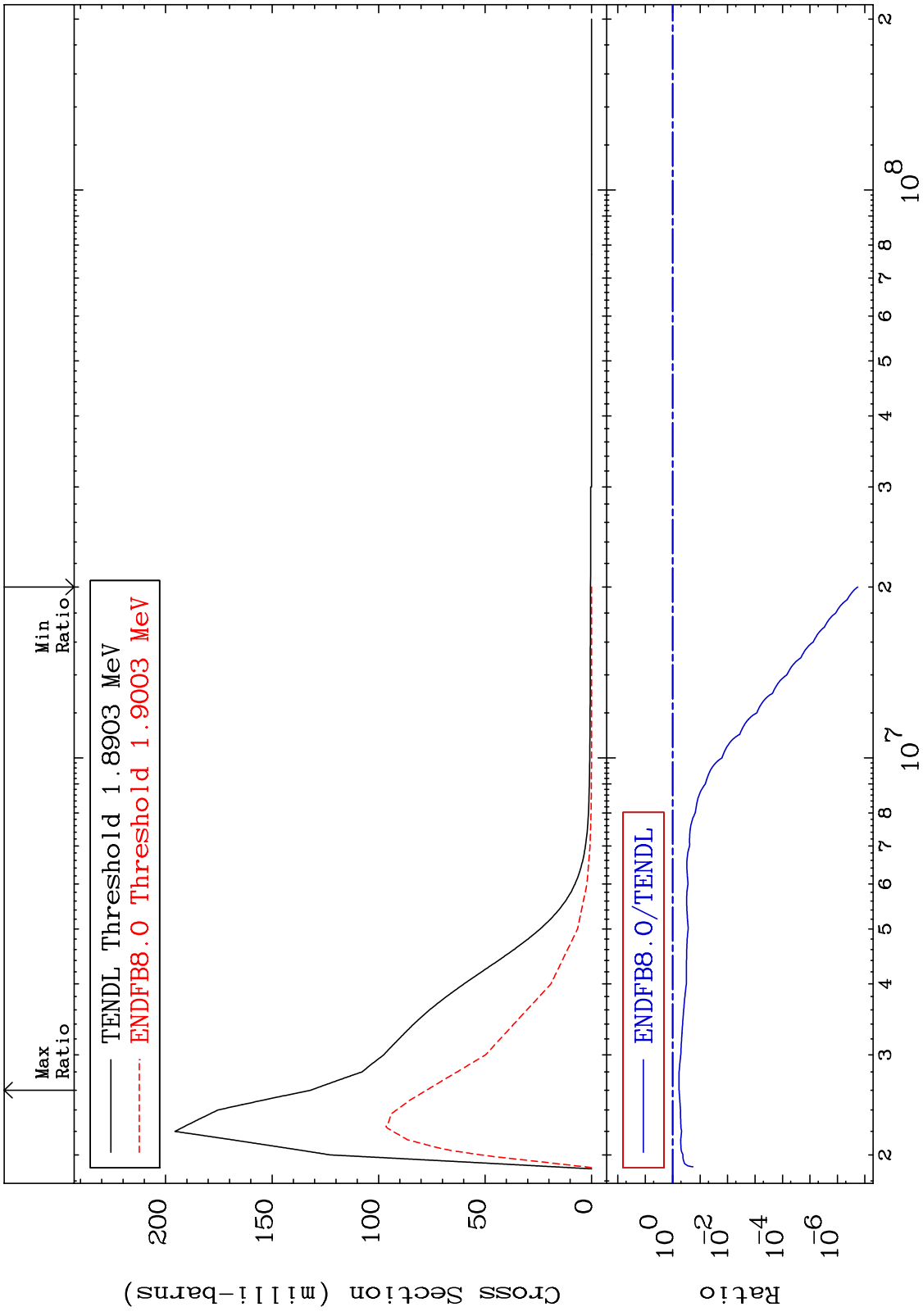


12

Incident Energy (eV)

42-Mo-98

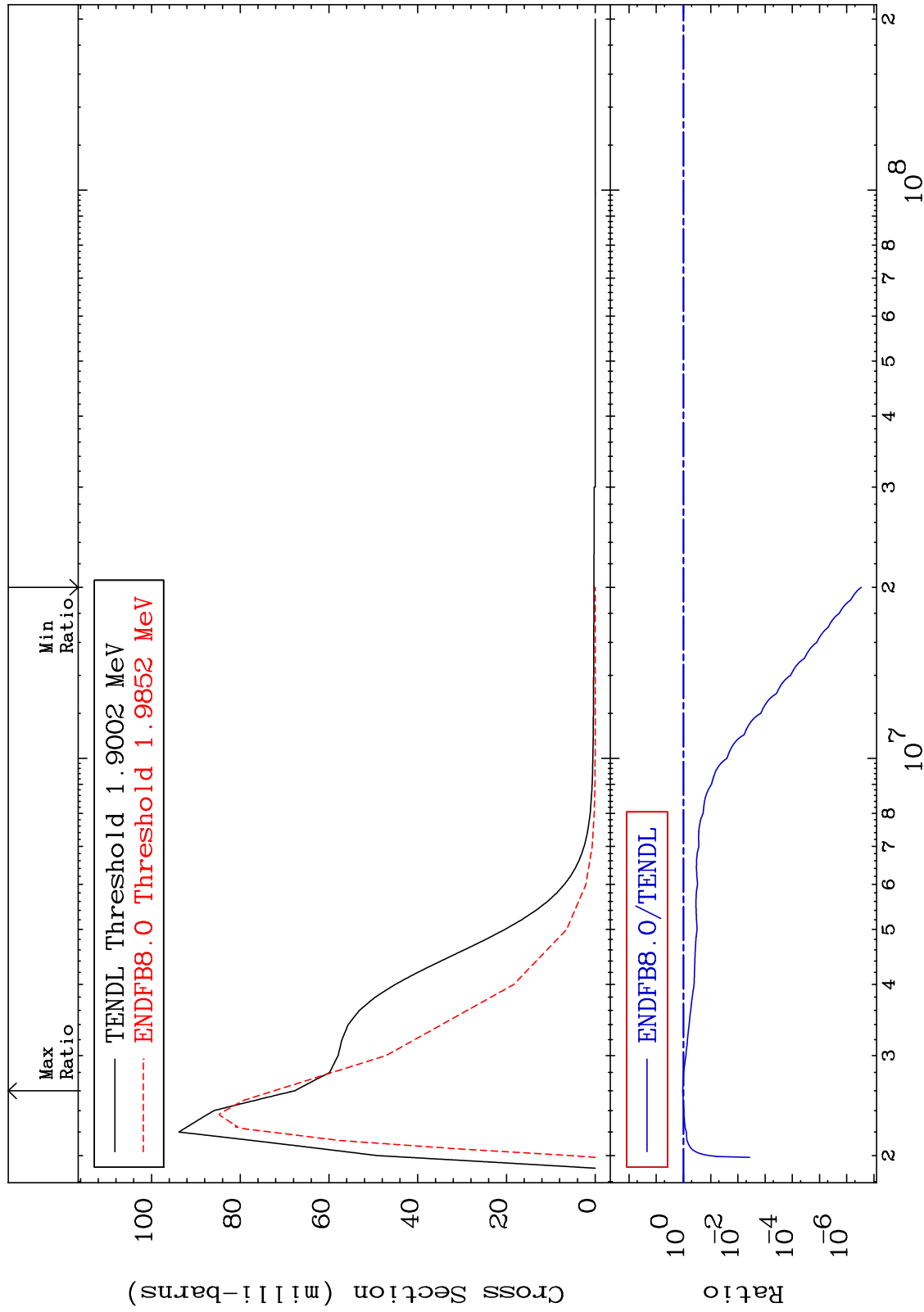
MAT 4243 MT= 56 (n,n') Level Cross Section -100.0 To -41.24% 42-Mo-98



MAT 4243

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

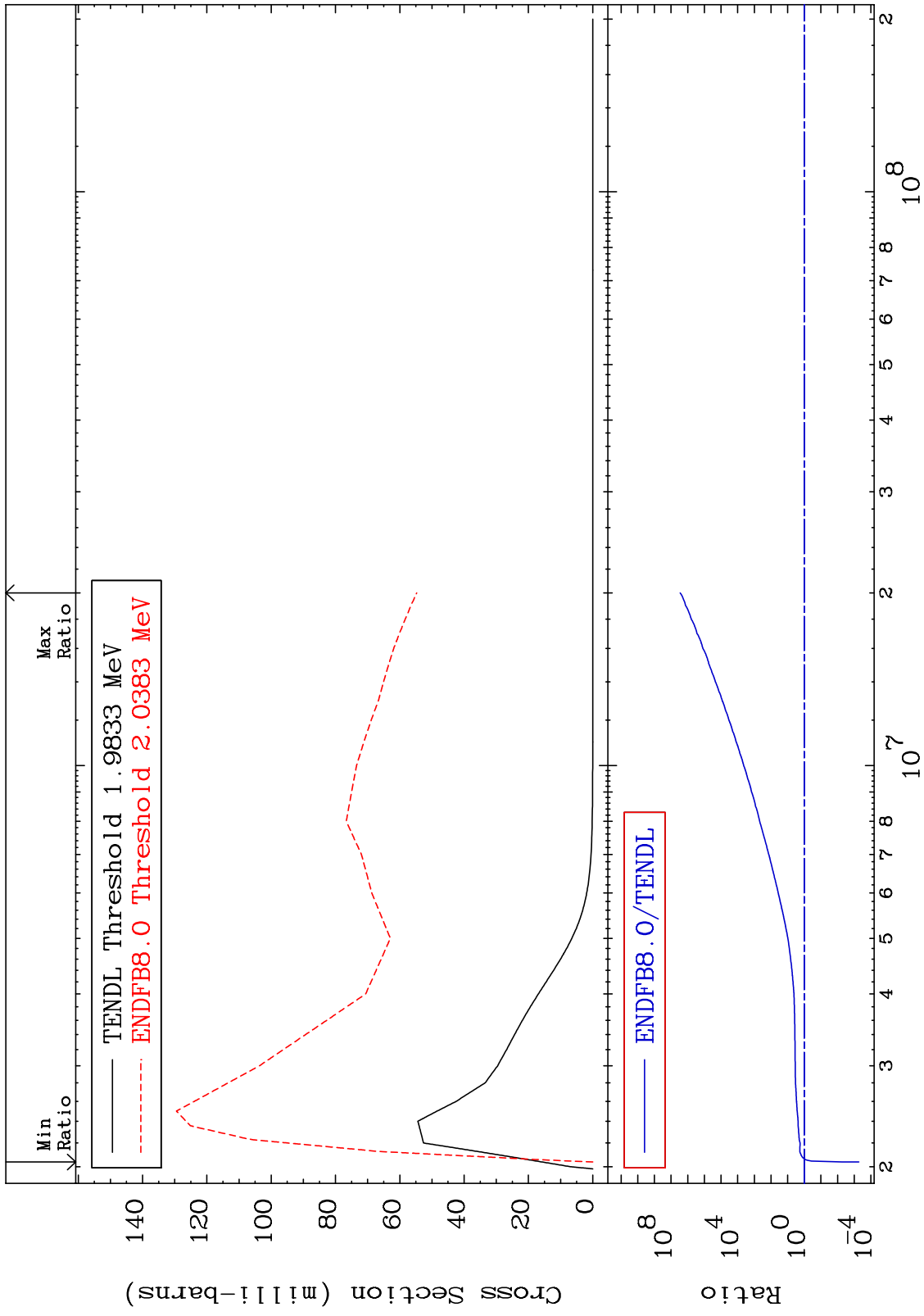
42-Mo-98
-100.0 To 6.913 %



MAT 4243

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

42-Mo-98
-99.95 To 9999. %

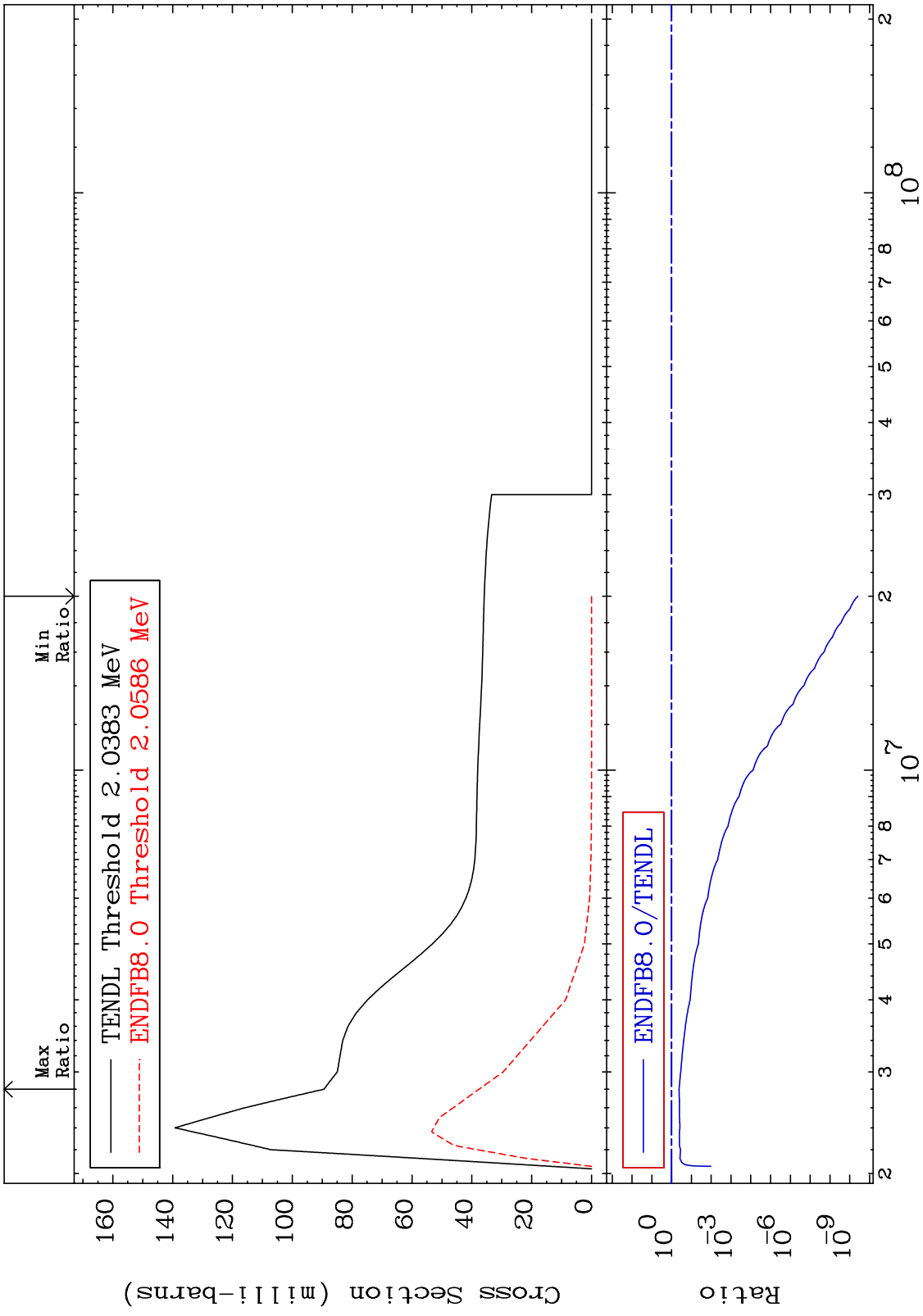


15

Incident Energy (eV)

42-Mo-98

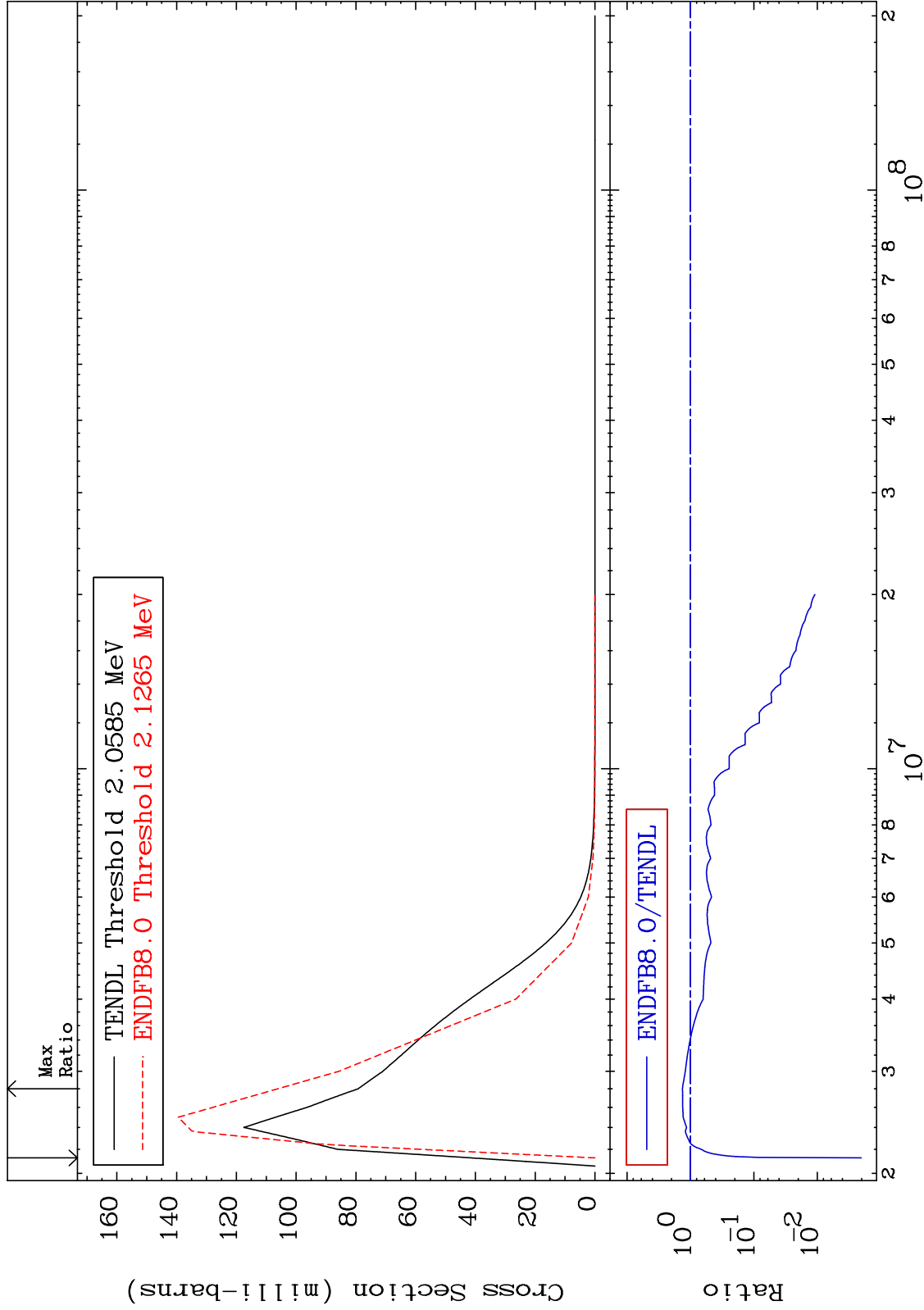
MAT 4243 MT= 59 (n,n') Level Cross Section -100.0 To -57.96% 42-Mo-98



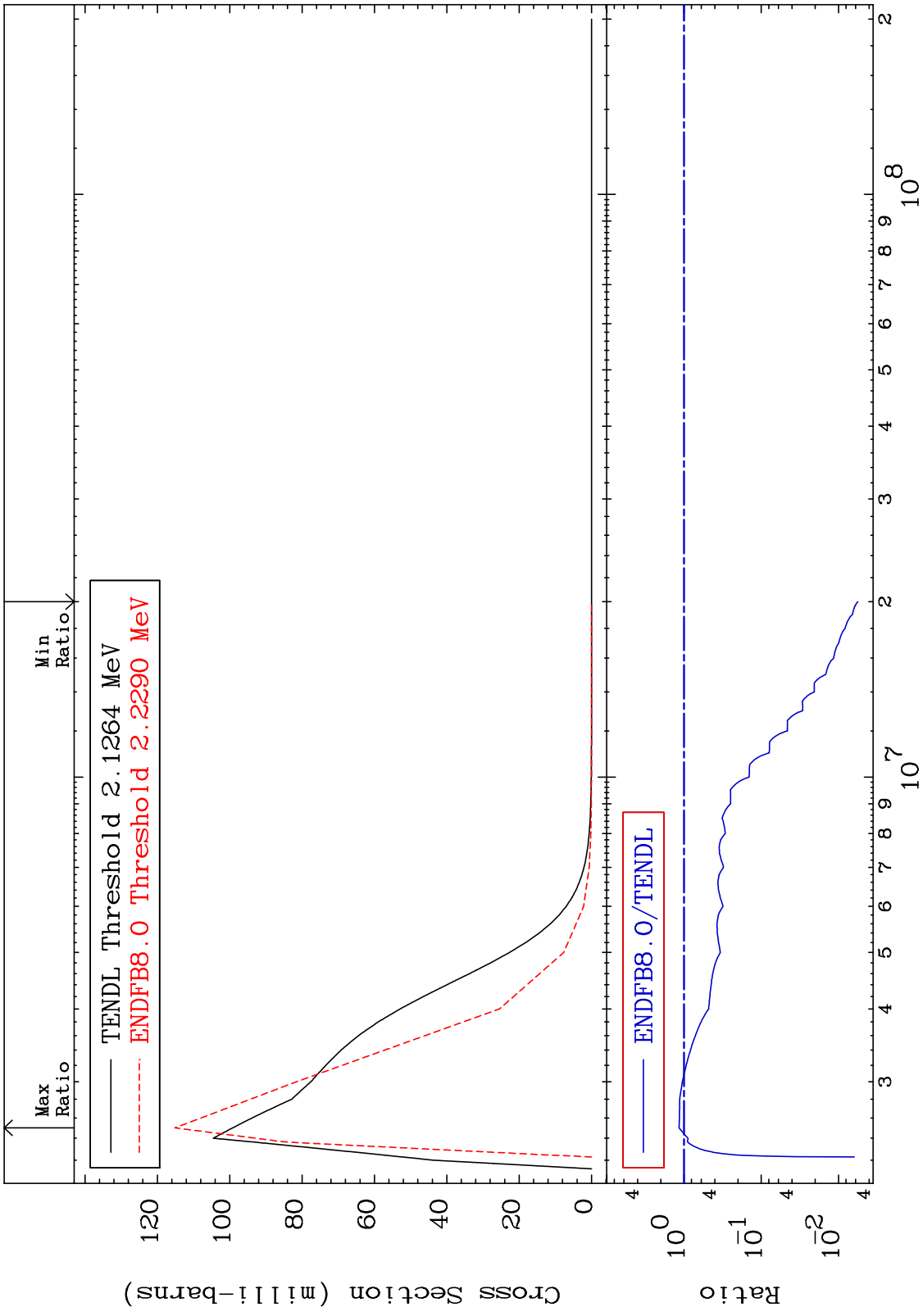
MAT 4243

MT= 60 (n,n') Level
Cross Section

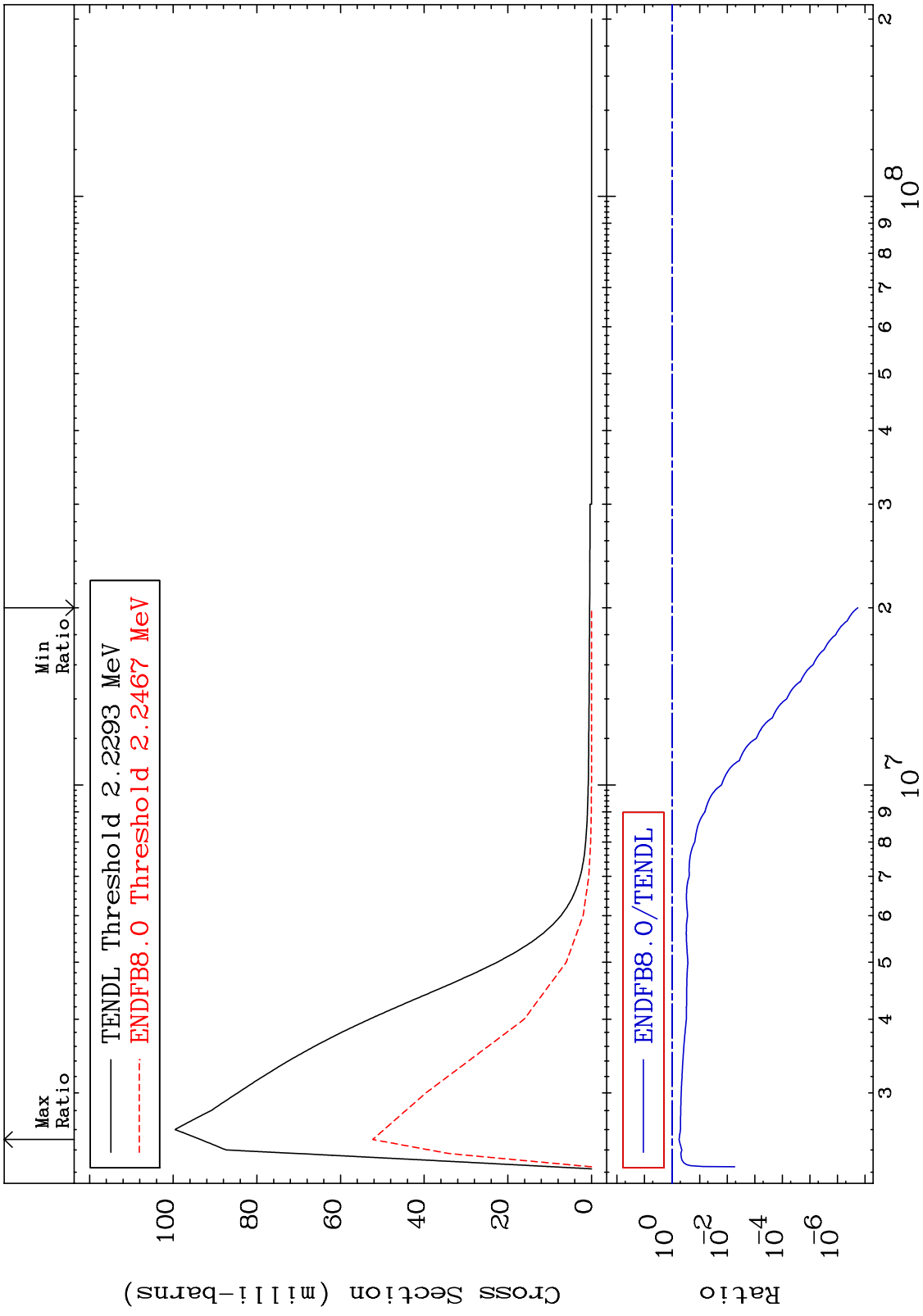
42-Mo-98
-99.80 To 33.93 %



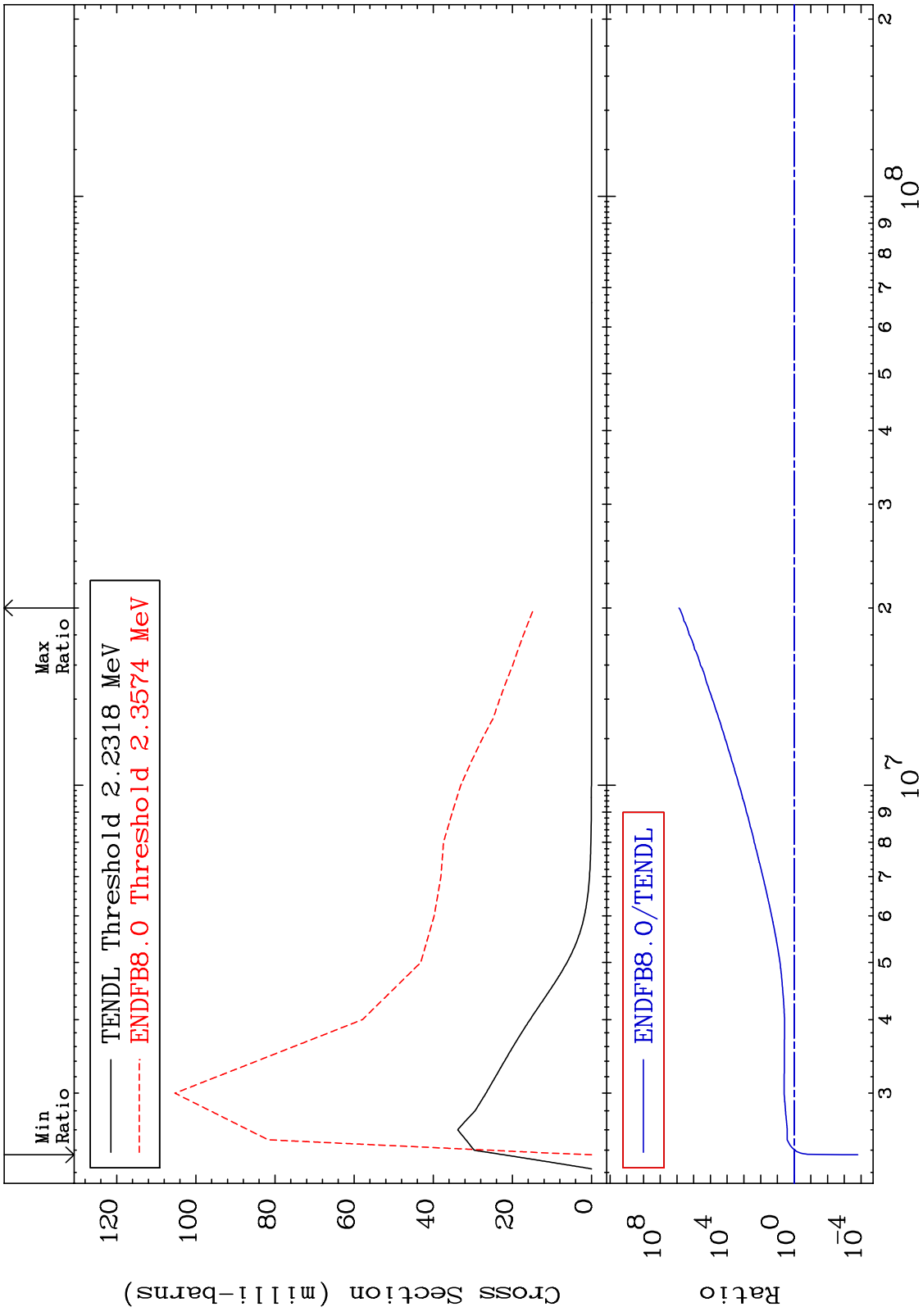
MAT 4243 MT= 61 (n,n') Level Cross Section 42-Mo-98
 -99.44 To 16.09 %



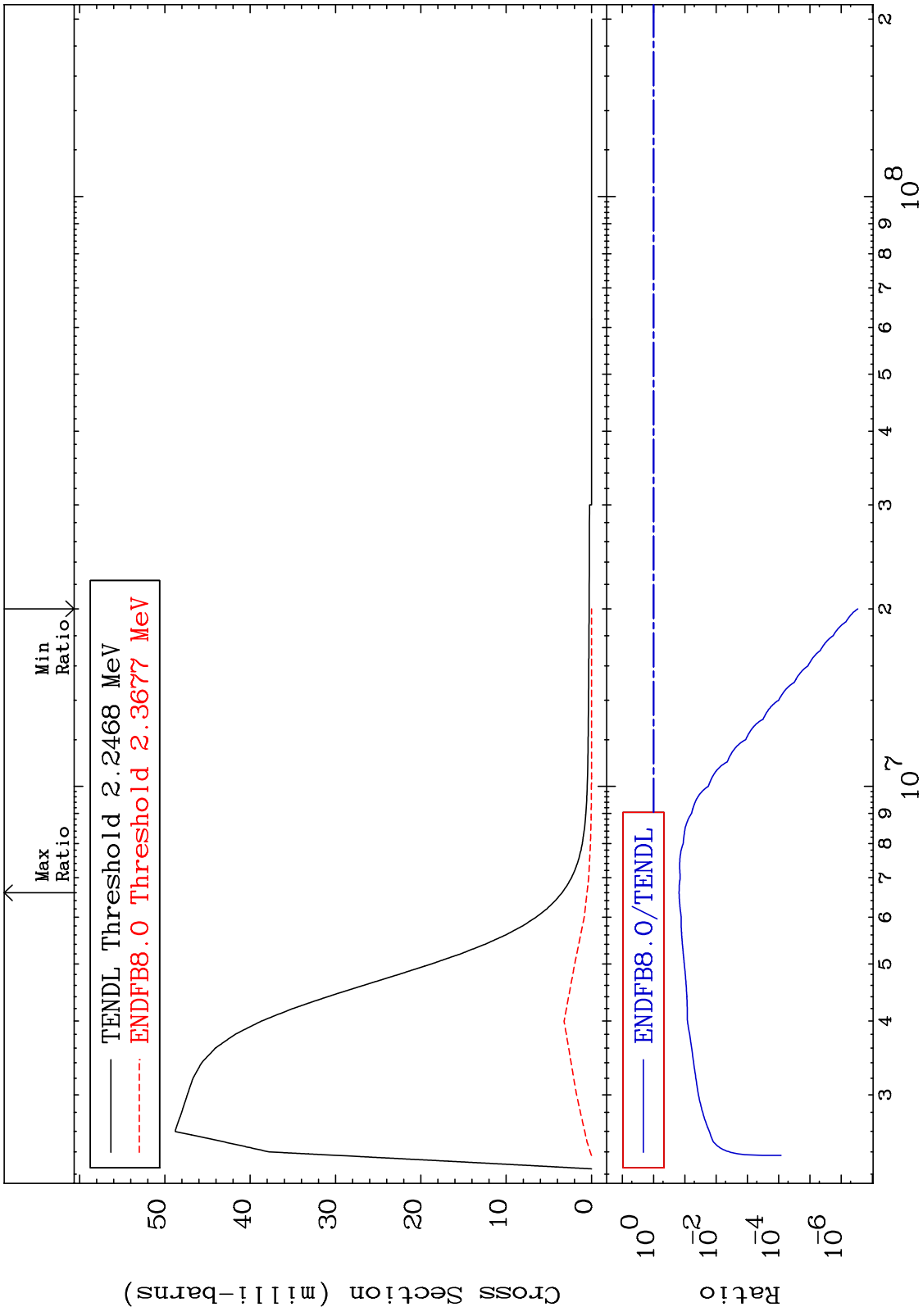
MAT 4243 MT= 62 (n,n') Level Cross Section -100.0 To -44.06% 42-Mo-98

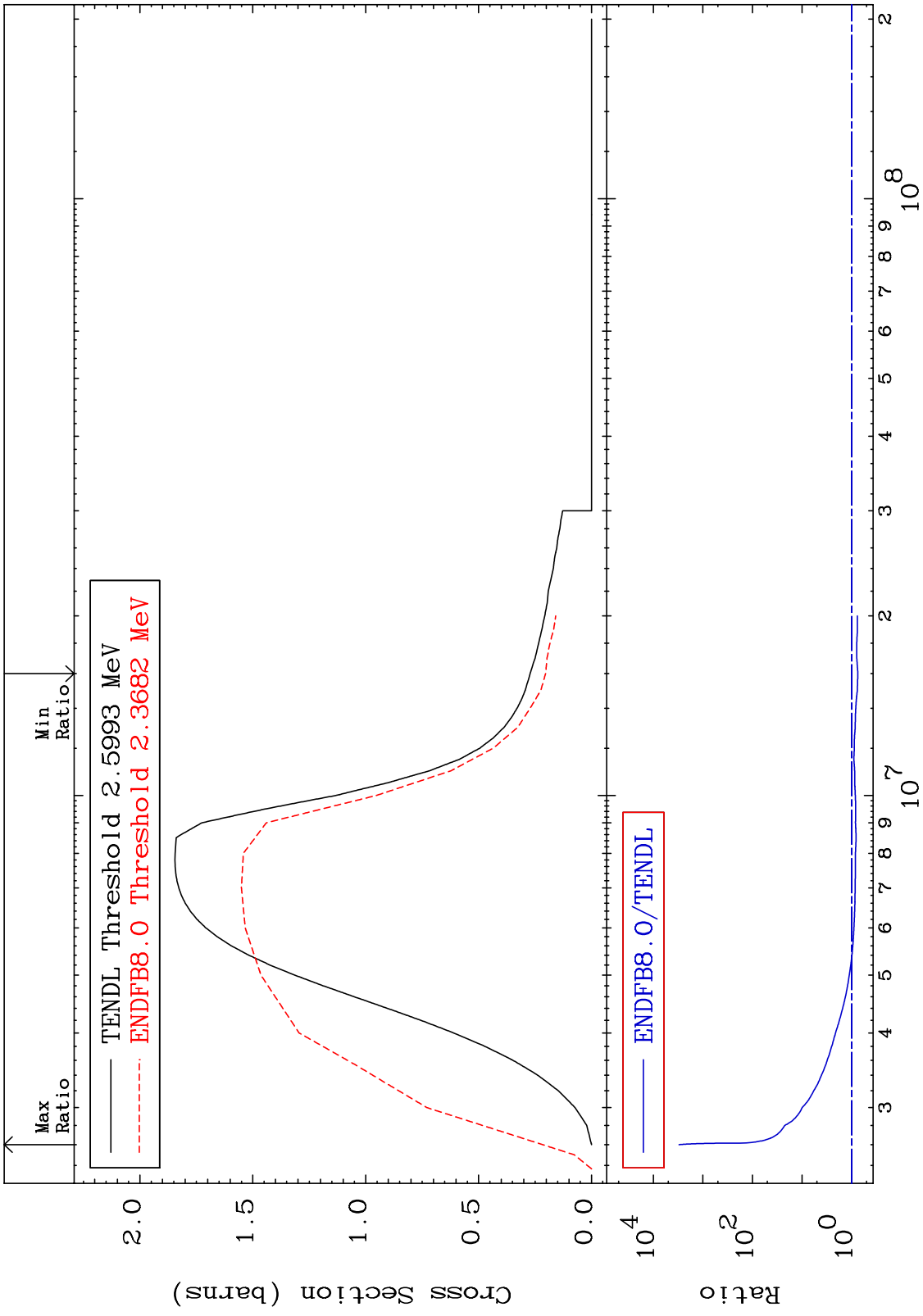


MAT 4243 MT= 63 (n,n') Level Cross Section 42-Mo-98
 -99.98 To 9999. %



MAT 4243 MT= 64 (n,n') Level Cross Section -100.0 To -84.64% 42-Mo-98





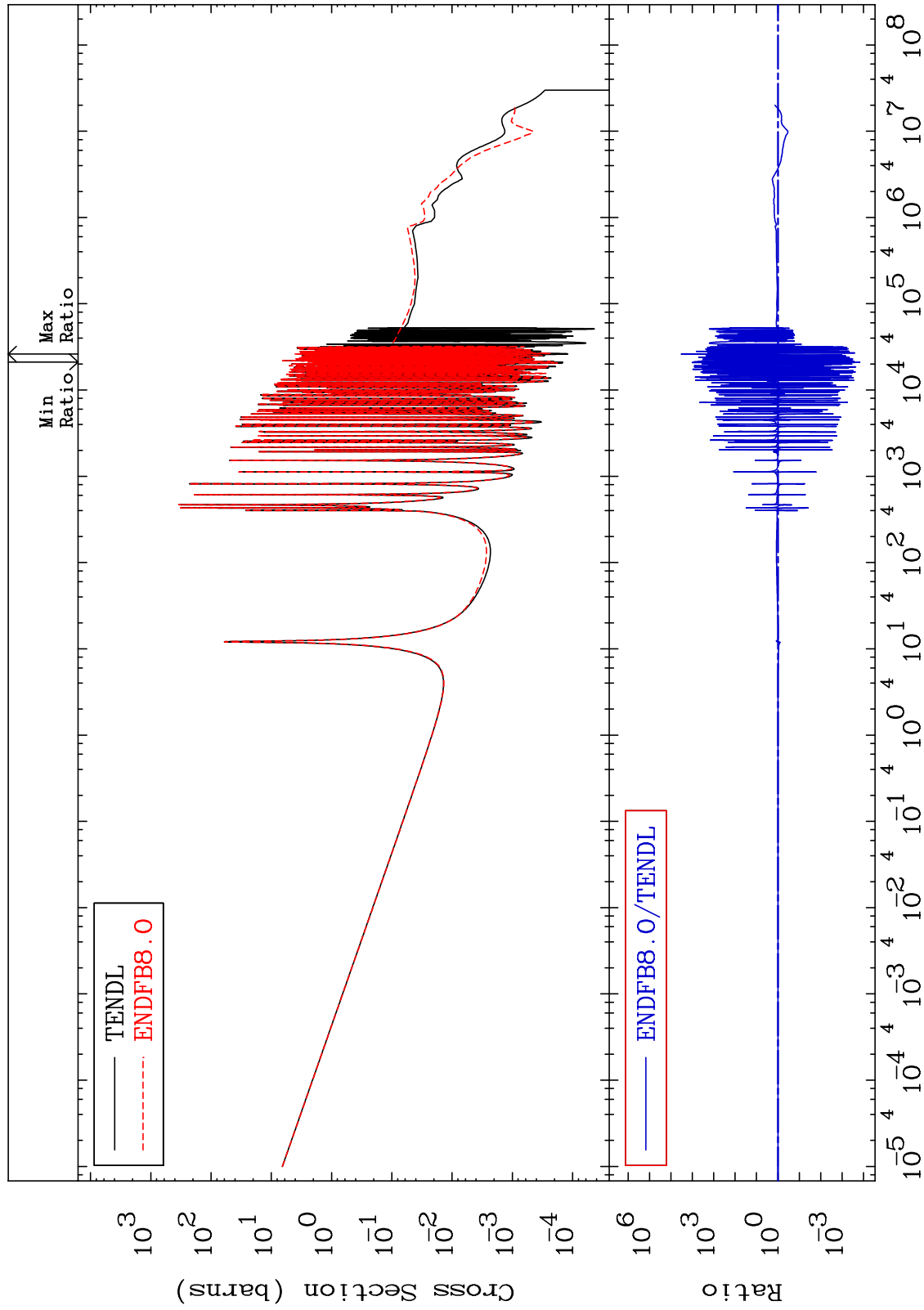
MAT 4243

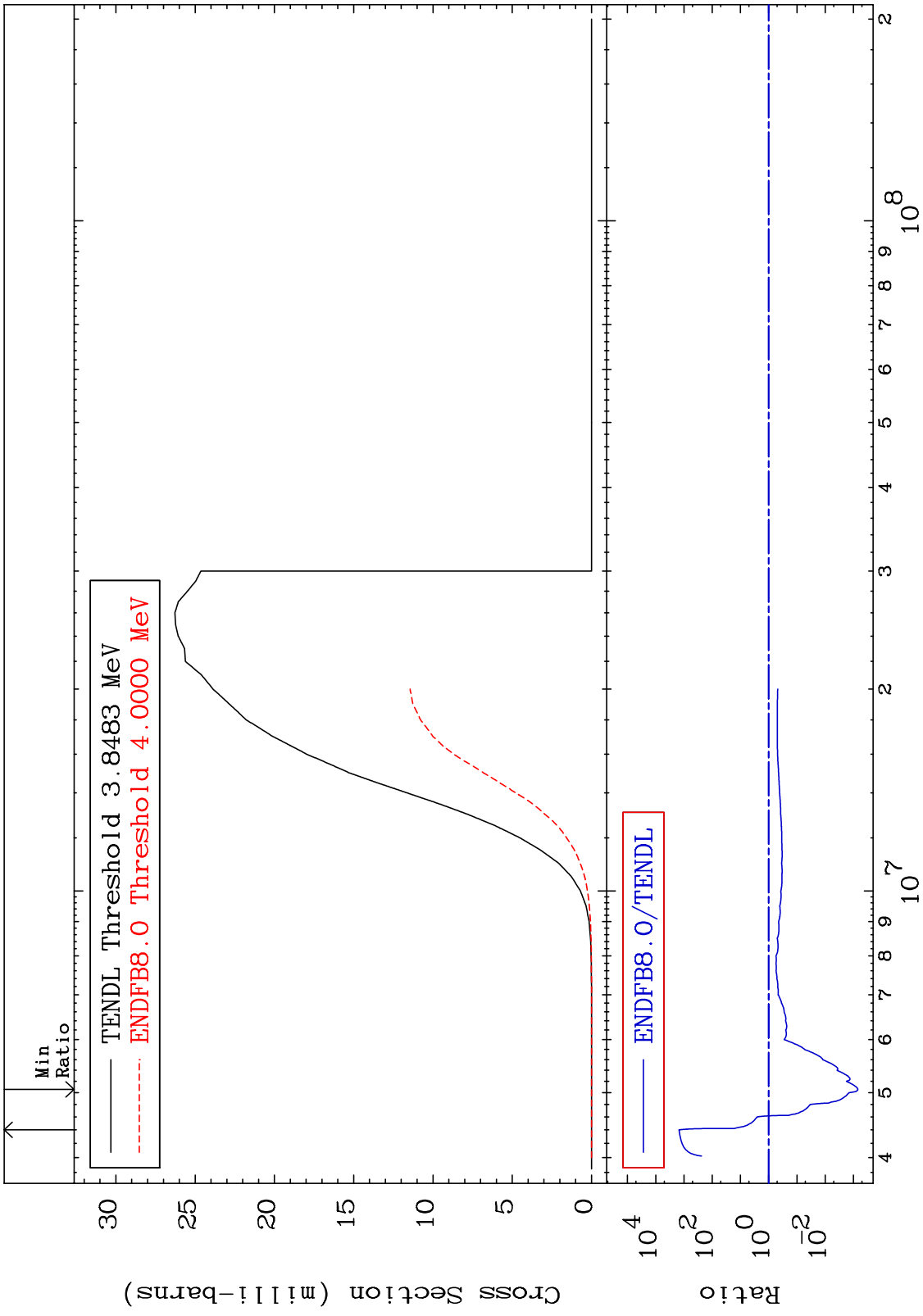
(n, γ)

42-Mo-98

Cross Section

-99.99 To 9999. %





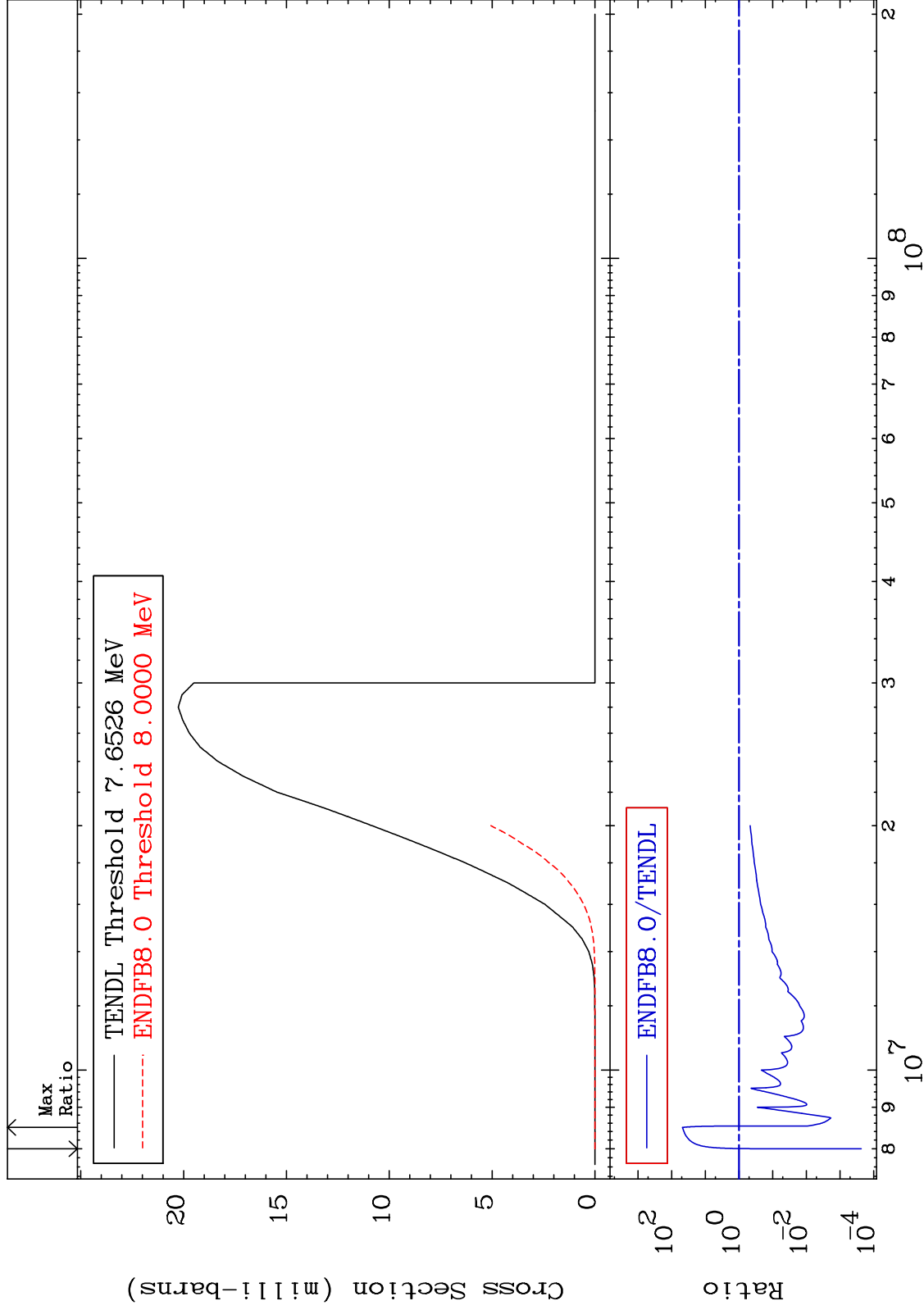
MAT 4243

(n,d)

42-Mo-98

Cross Section

-99.98 To 4686. %



25

Incident Energy (eV)

42-Mo-98

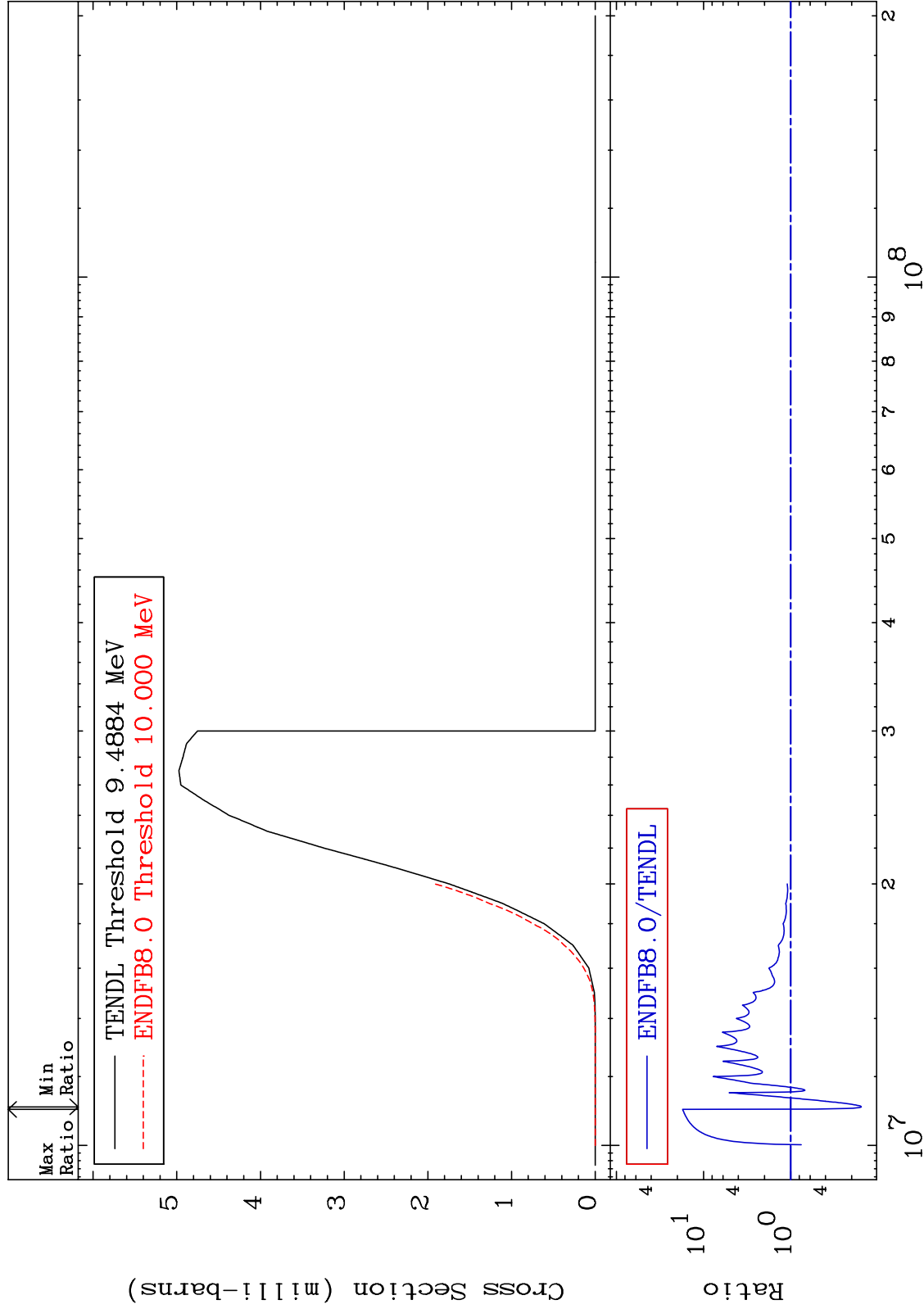
MAT 4243

(n,t)

42-Mo-98

Cross Section

-84.47 To 1640. %



26

Incident Energy (eV)

42-Mo-98

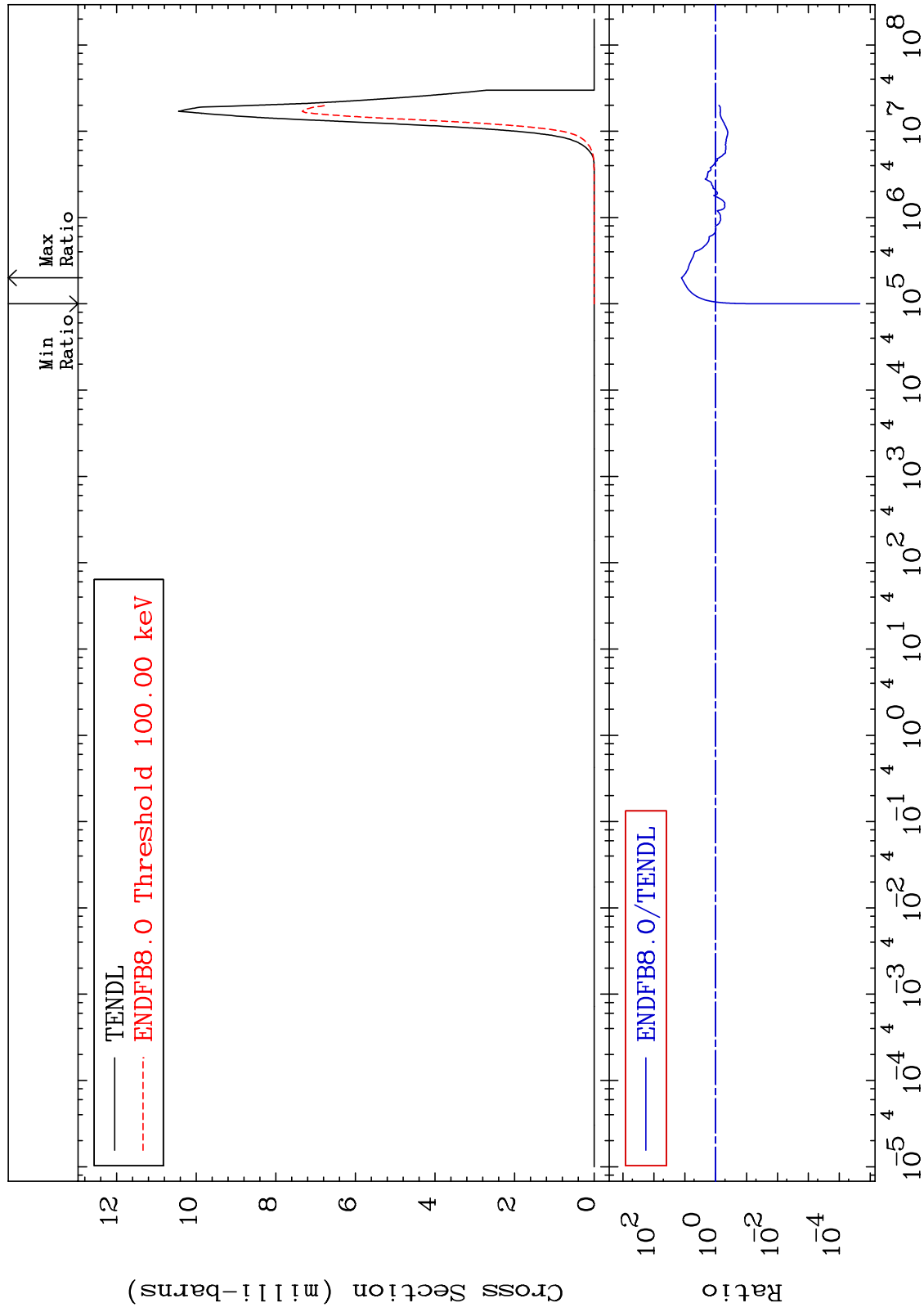
MAT 4243

(n, α)

42-Mo-98

Cross Section

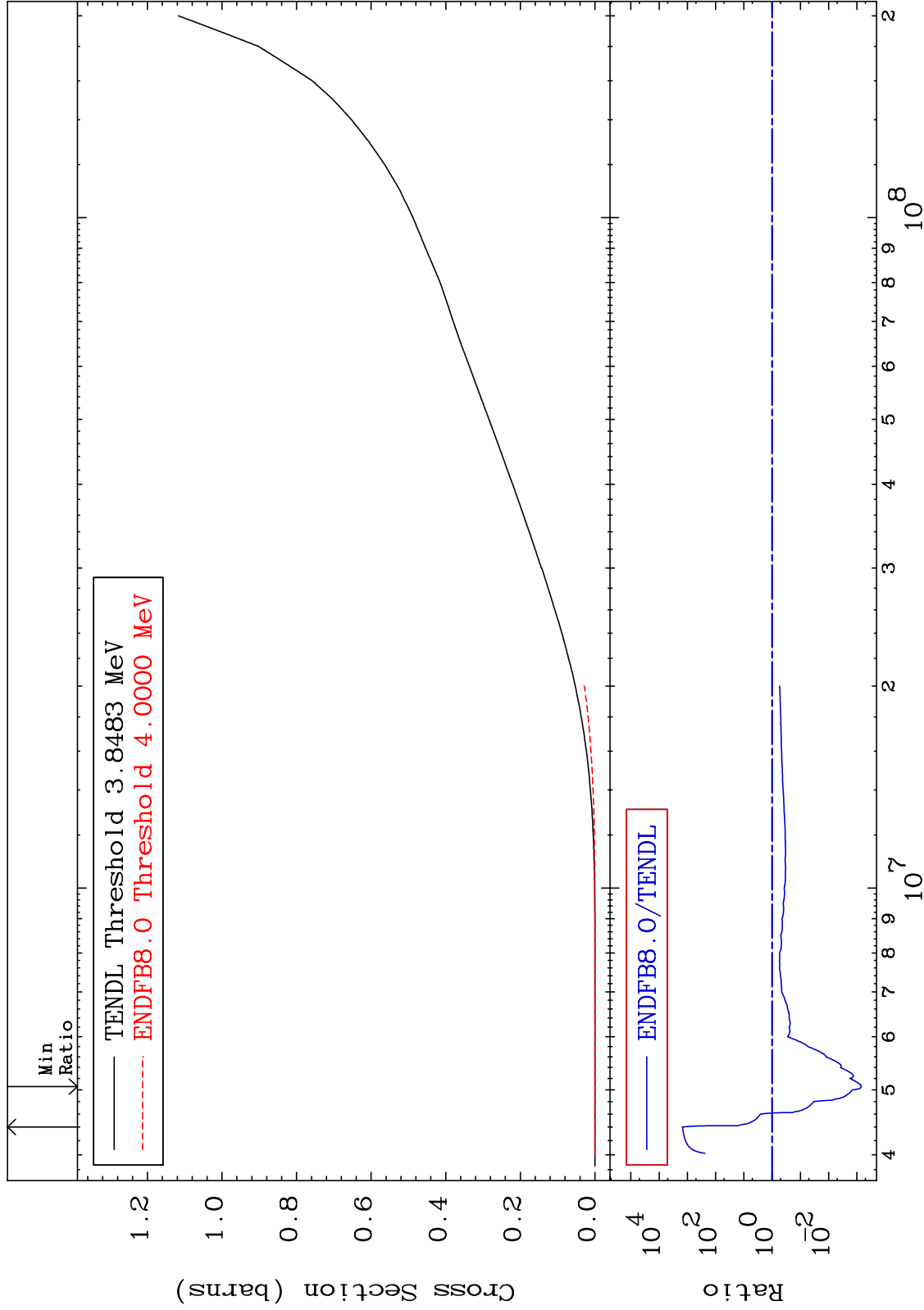
-100.0 To 1184. %



MAT 4243

Hydrogen Production
Cross Section

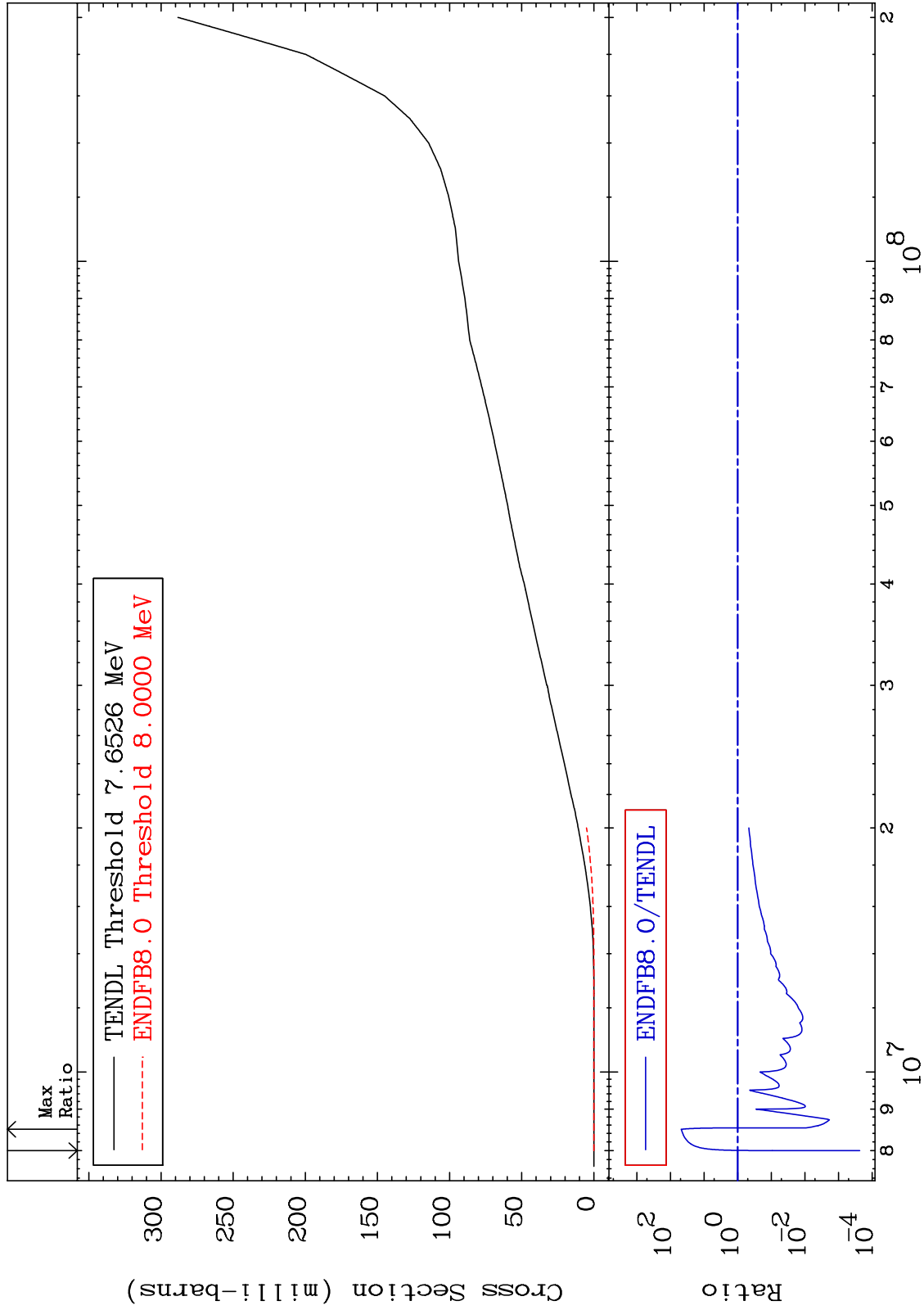
42-Mo-98
-99.93 To 9999. %



MAT 4243

Deuterium Production
Cross Section

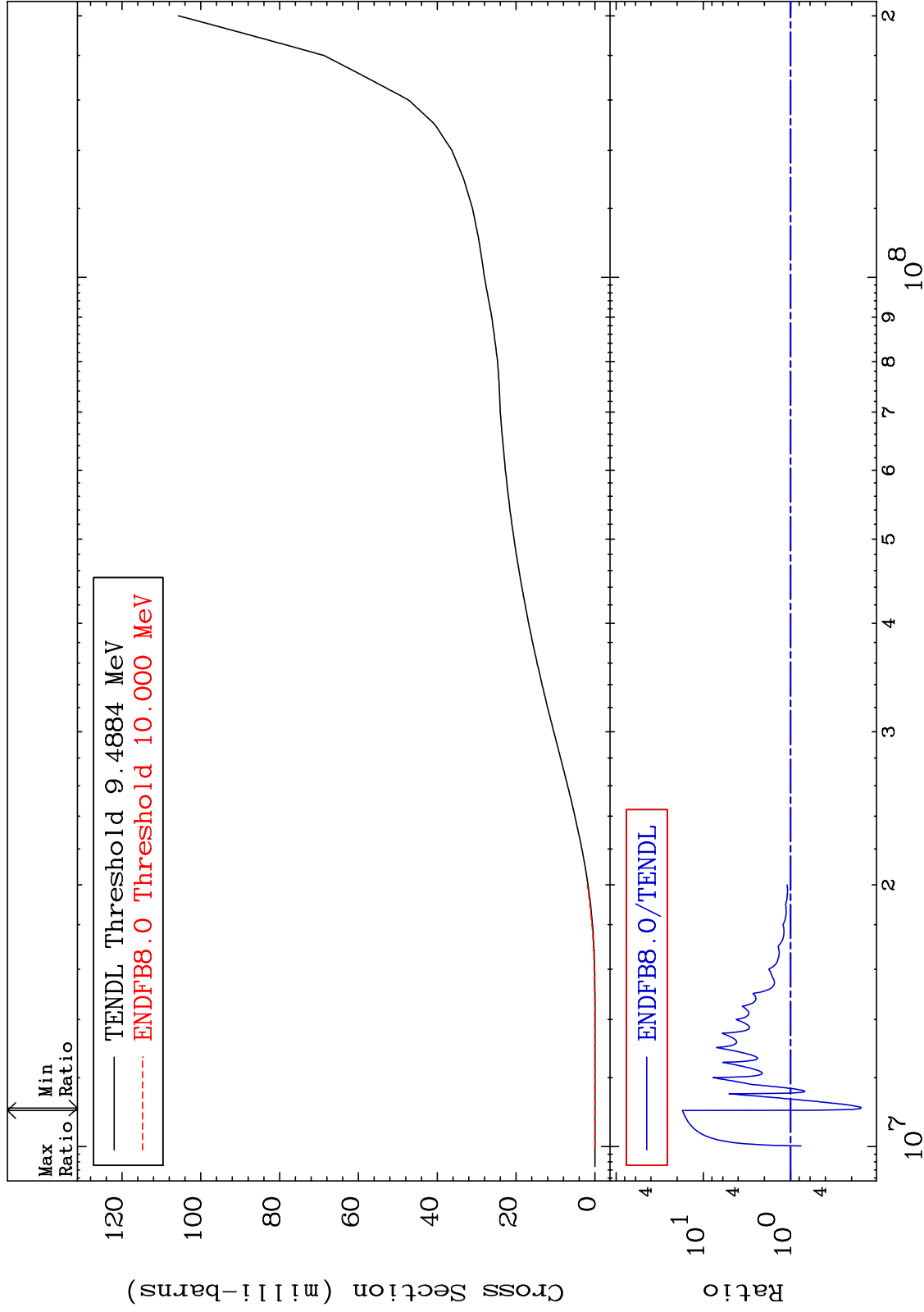
42-Mo-98
-99.98 To 4686. %



MAT 4243

Tritium Production
Cross Section

42-Mo-98
-84.47 To 1640. %



30

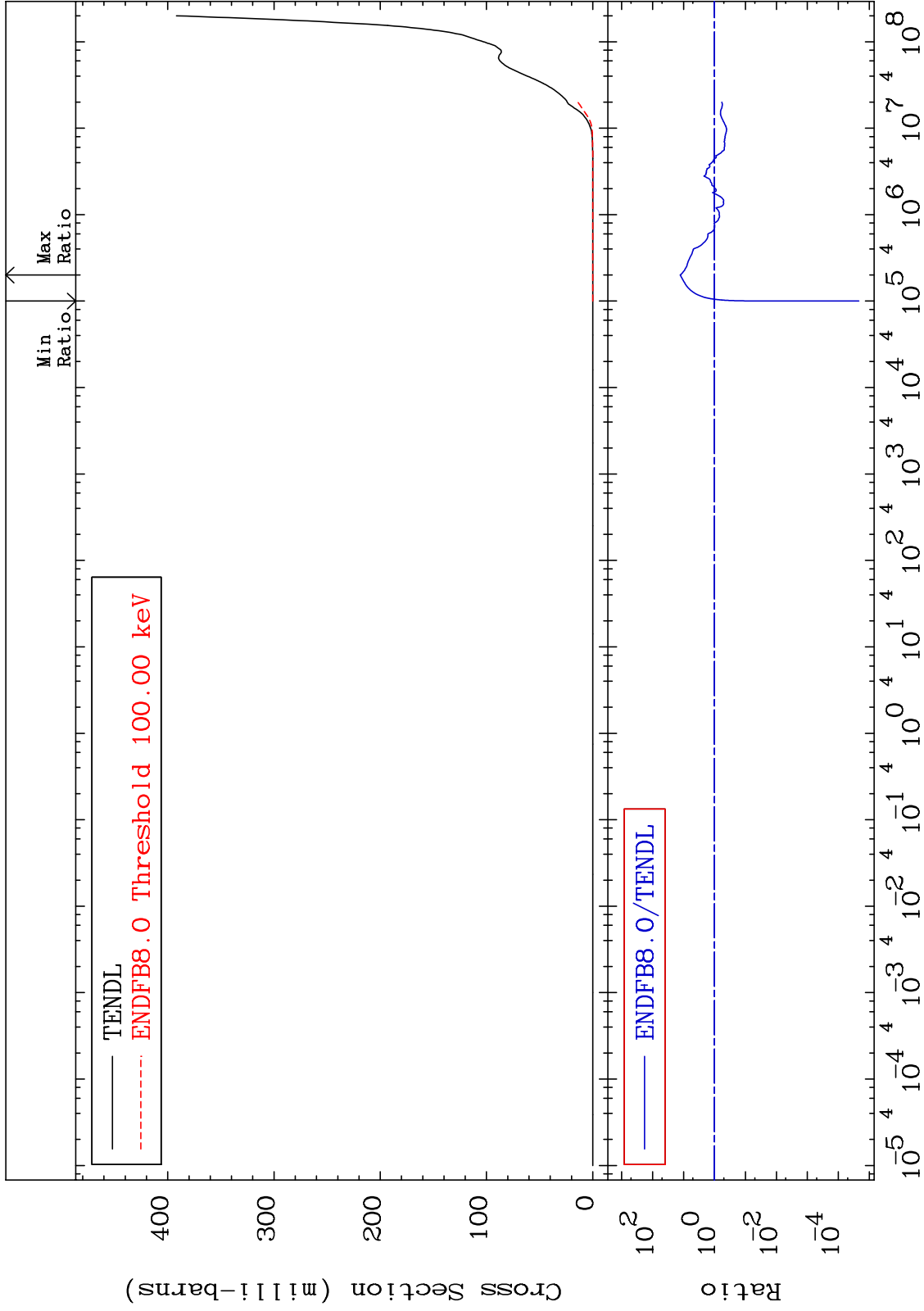
Incident Energy (eV)

42-Mo-98

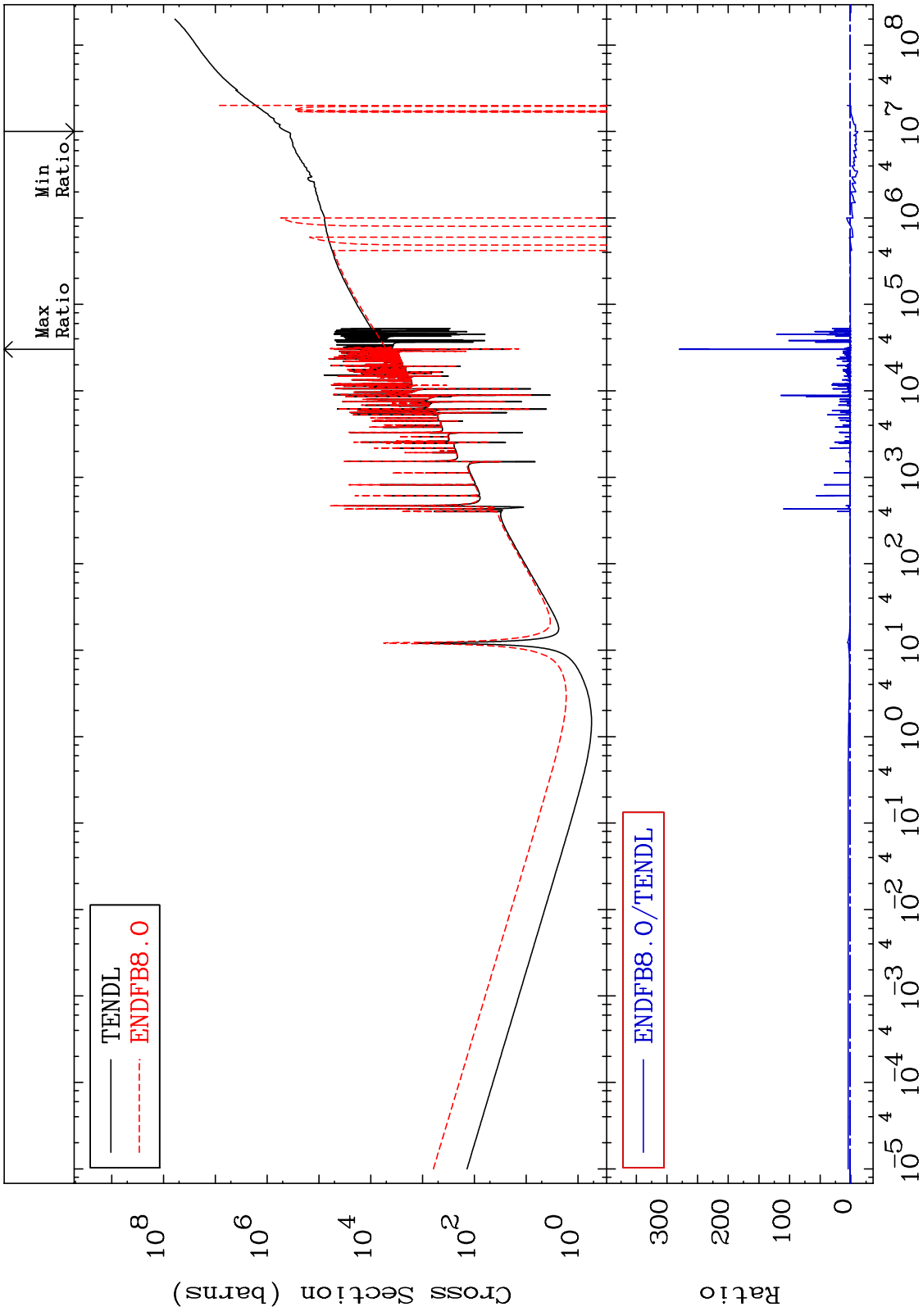
MAT 4243

He-4 Production
Cross Section

42-Mo-98
-100.0 To 1184. %



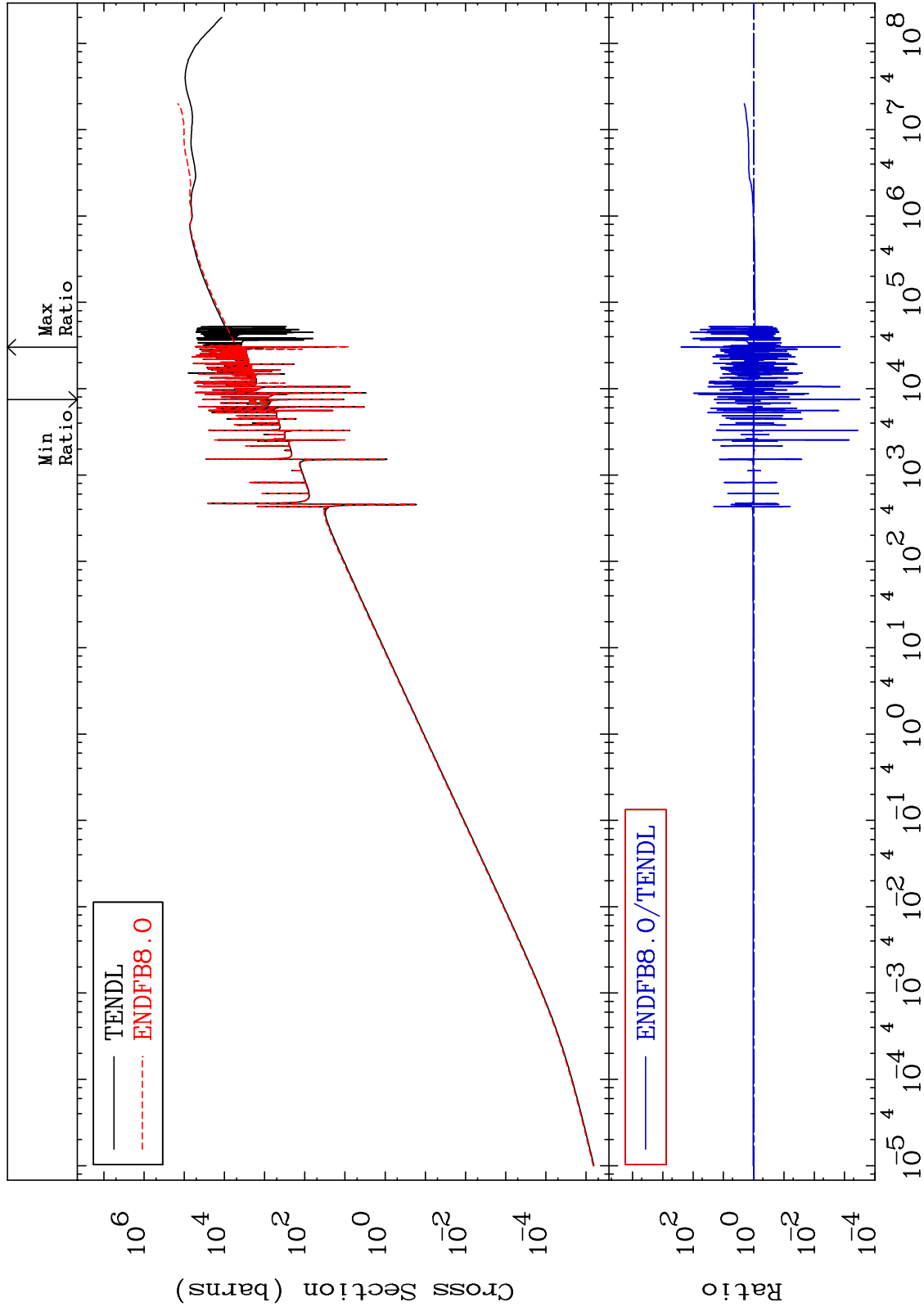
MAT 4243 Kerma total (eV-barns) 42-Mo-98
 Cross Section -1244. To 9999. %



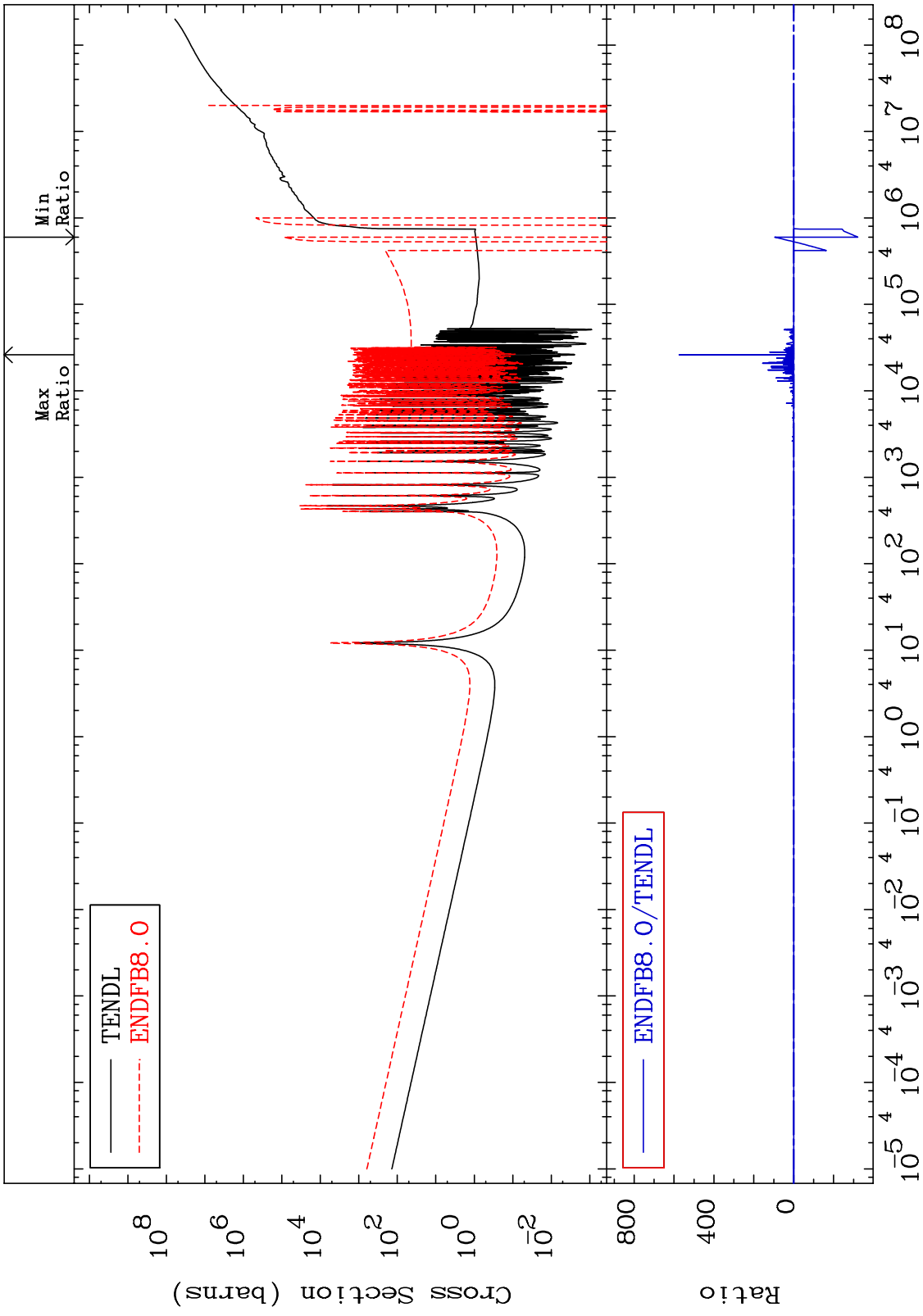
MAT 4243

Kerma elastic
Cross Section

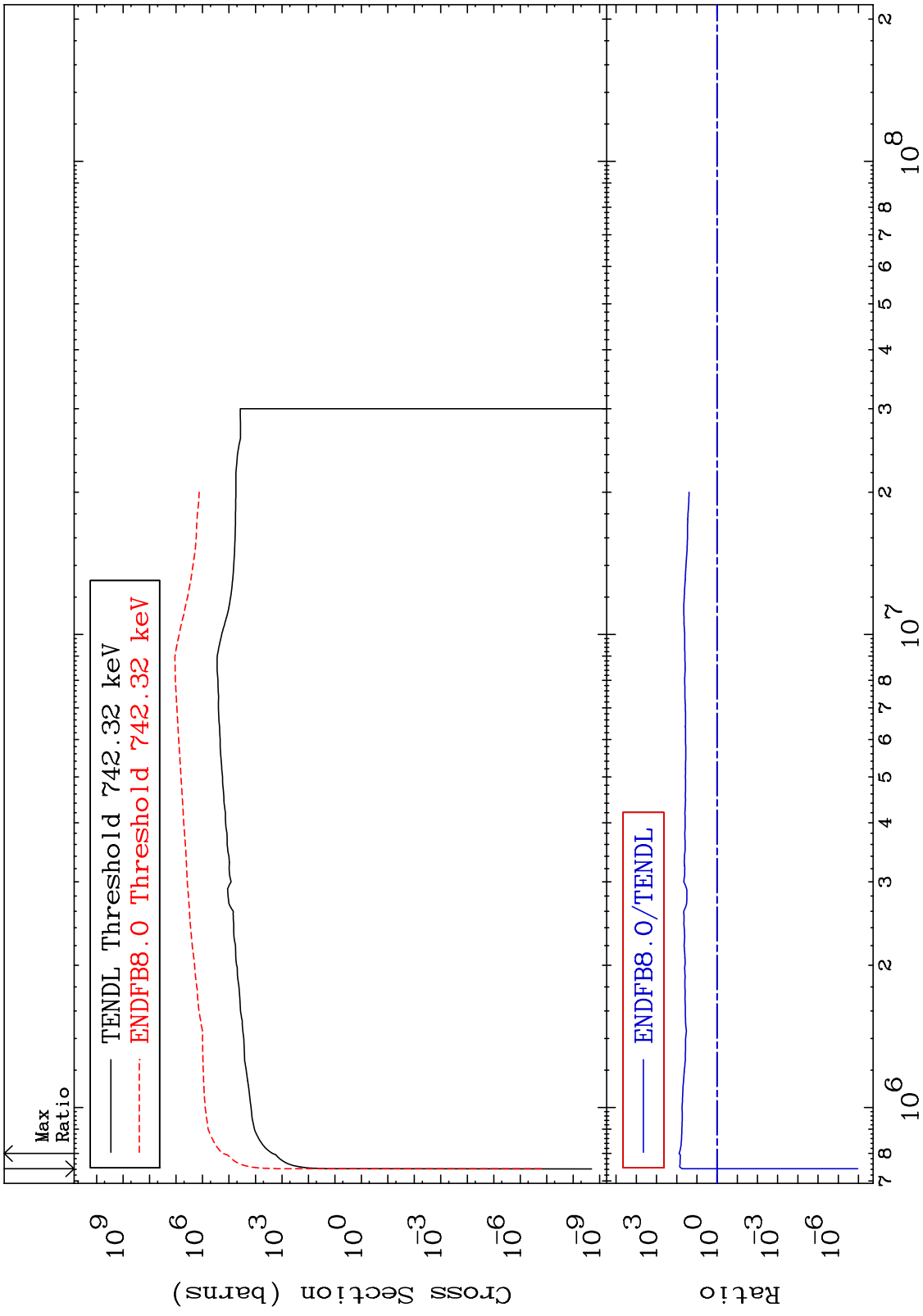
42-Mo-98
-99.97 To 9999. %



MAT 4243 Kerma non-elastic (all but mt2) 42-Mo-98
 Cross Section -9999. To 9999. %



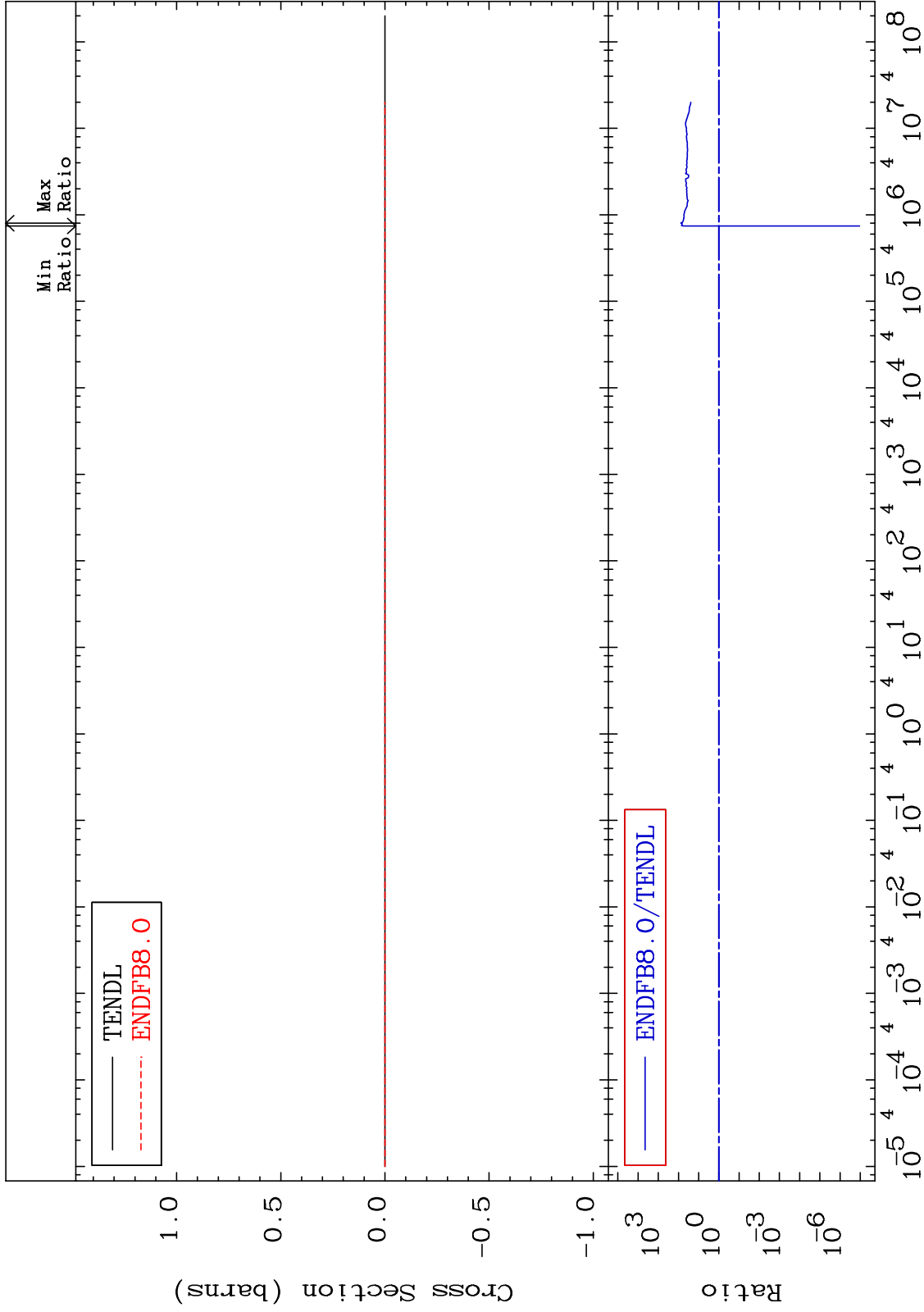
MAT 4243 Kerma inelastic (mt51-91) 42-Mo-98
 Cross Section -100.0 To 7549. %



MAT 4243

Kerma fission (mt18 or mt19-20-21-38)
Cross Section

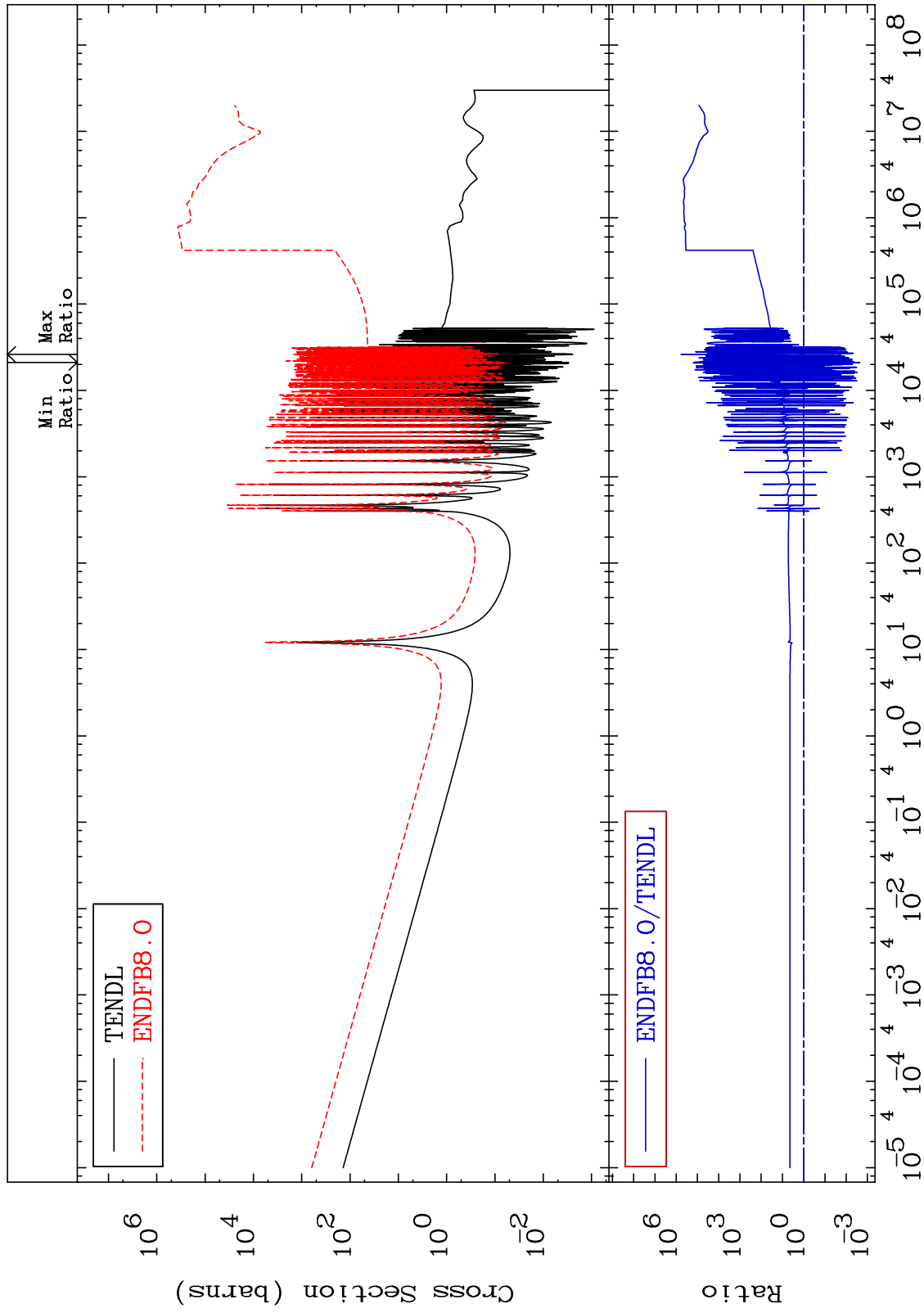
42-Mo-98
-100.0 To 7549. %



MAT 4243

Kerma capture (mt102)
Cross Section

42-Mo-98
-99.77 To 9999. %



37

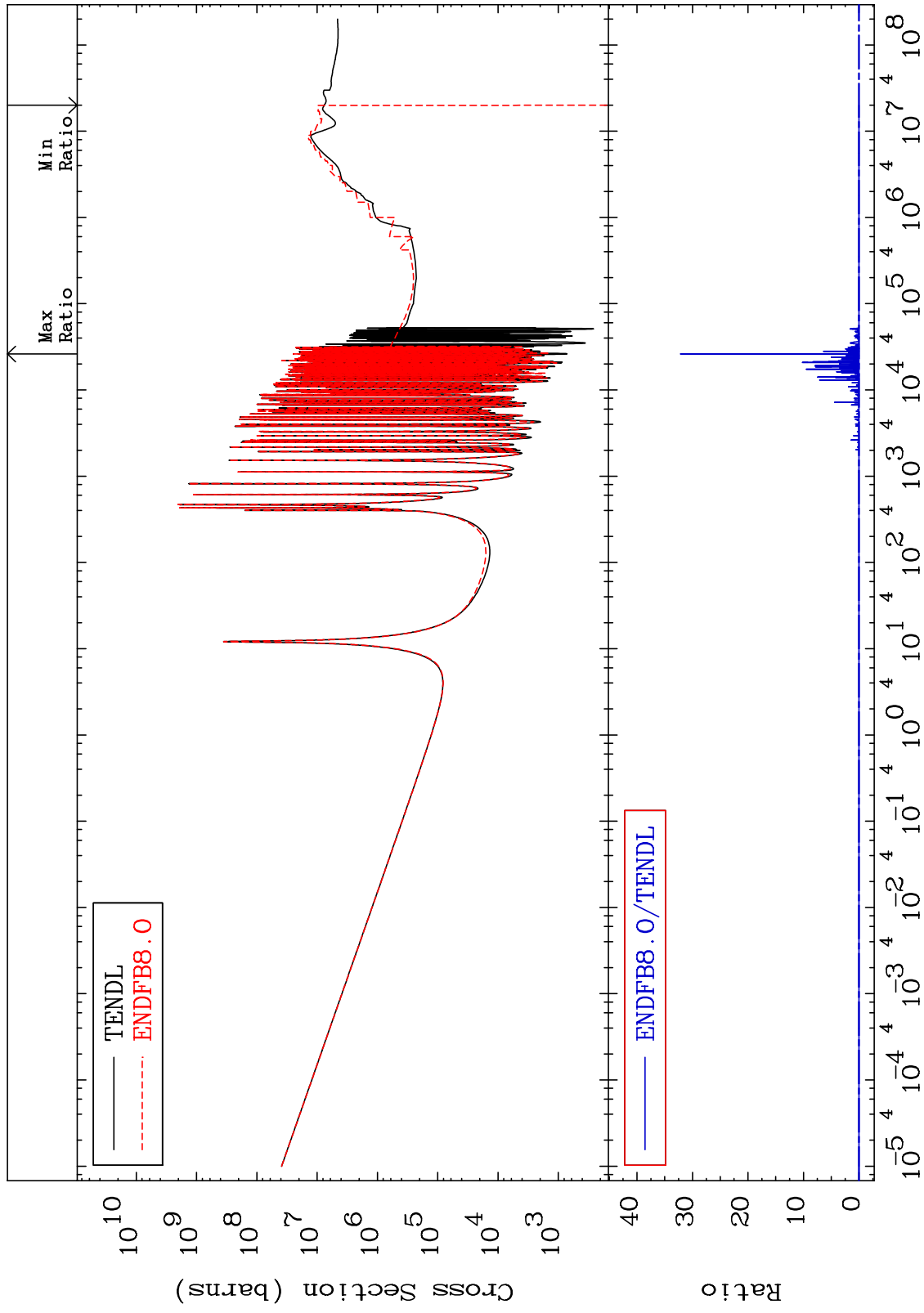
Incident Energy (eV)

42-Mo-98

MAT 4243

Total photon (eV-barns)
Cross Section

42-Mo-98
-100.0 To 9999. %



38

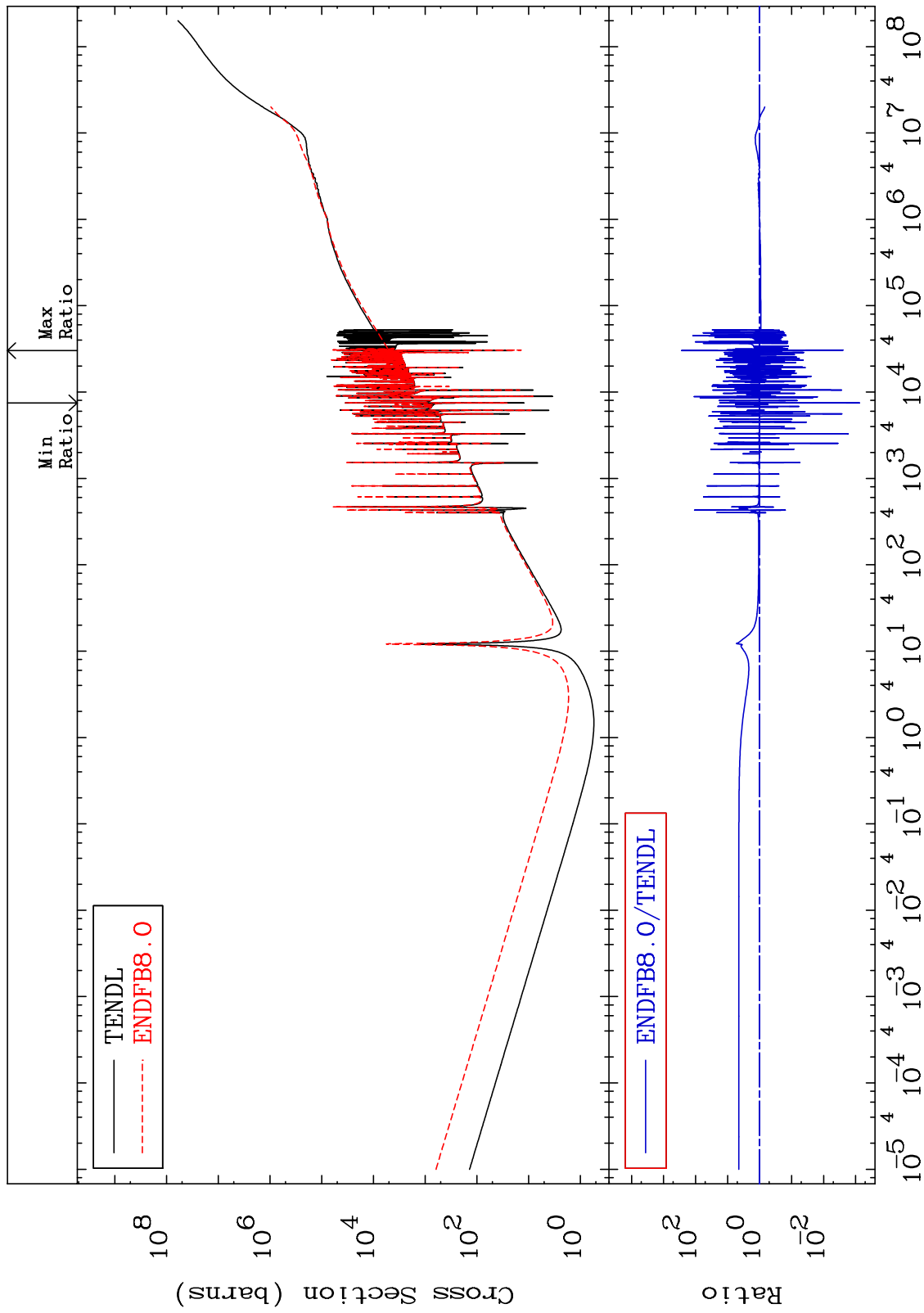
Incident Energy (eV)

42-Mo-98

MAT 4243

Total kinematic kerma (high limit)
Cross Section

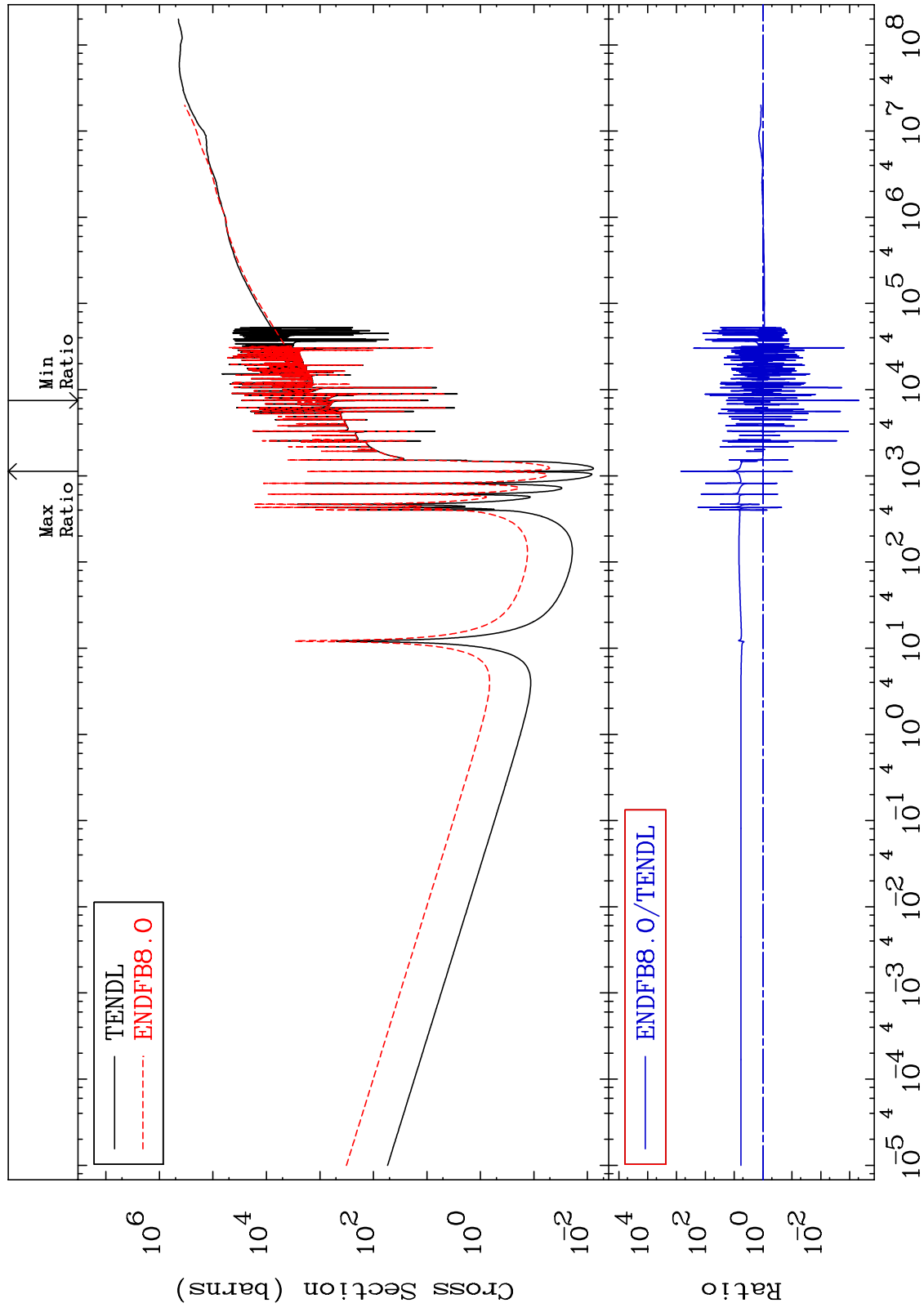
42-Mo-98
-99.93 To 9999. %



MAT 4243

Dpa total (eV-barns)
Cross Section

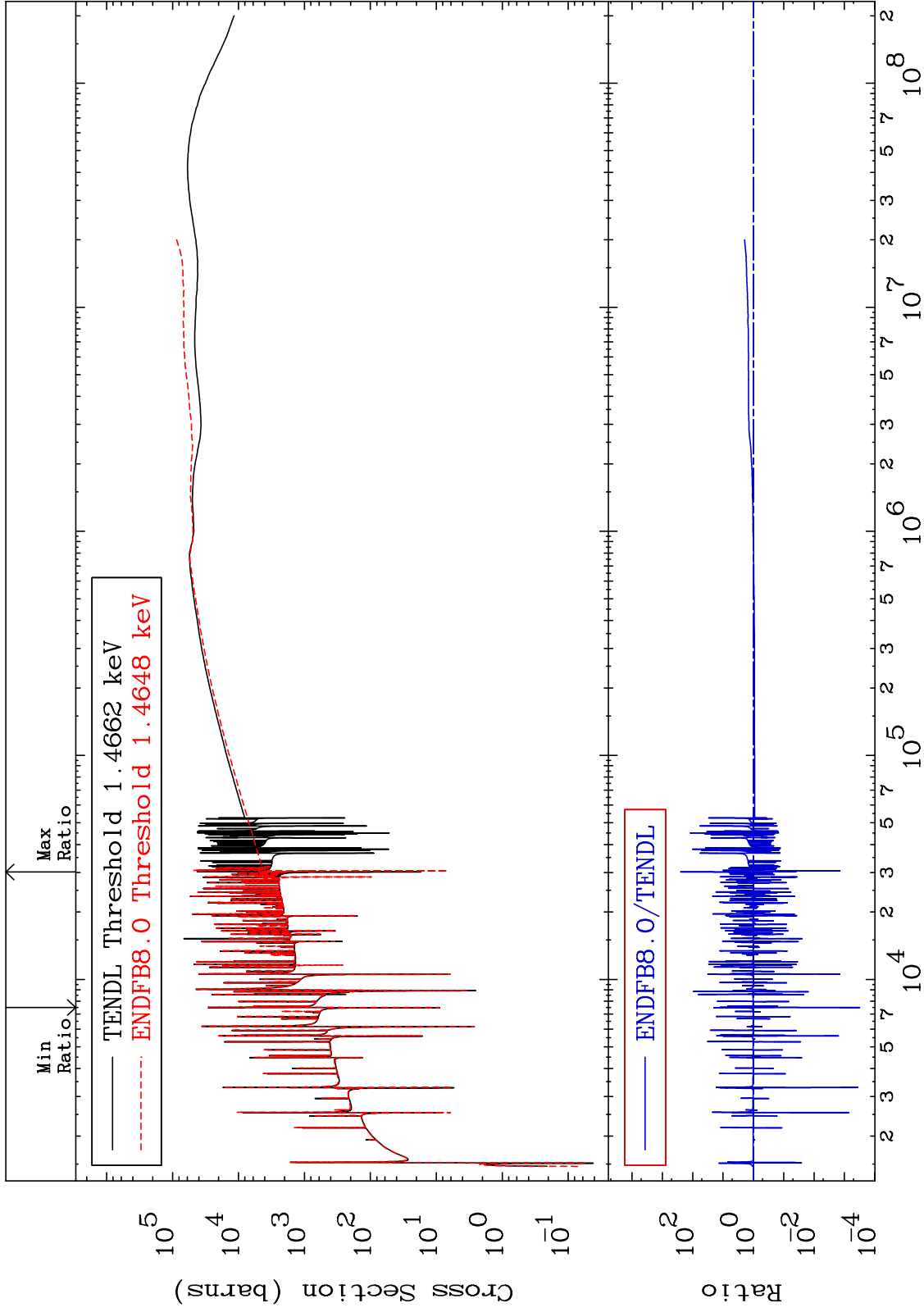
42-Mo-98
-99.95 To 9999. %



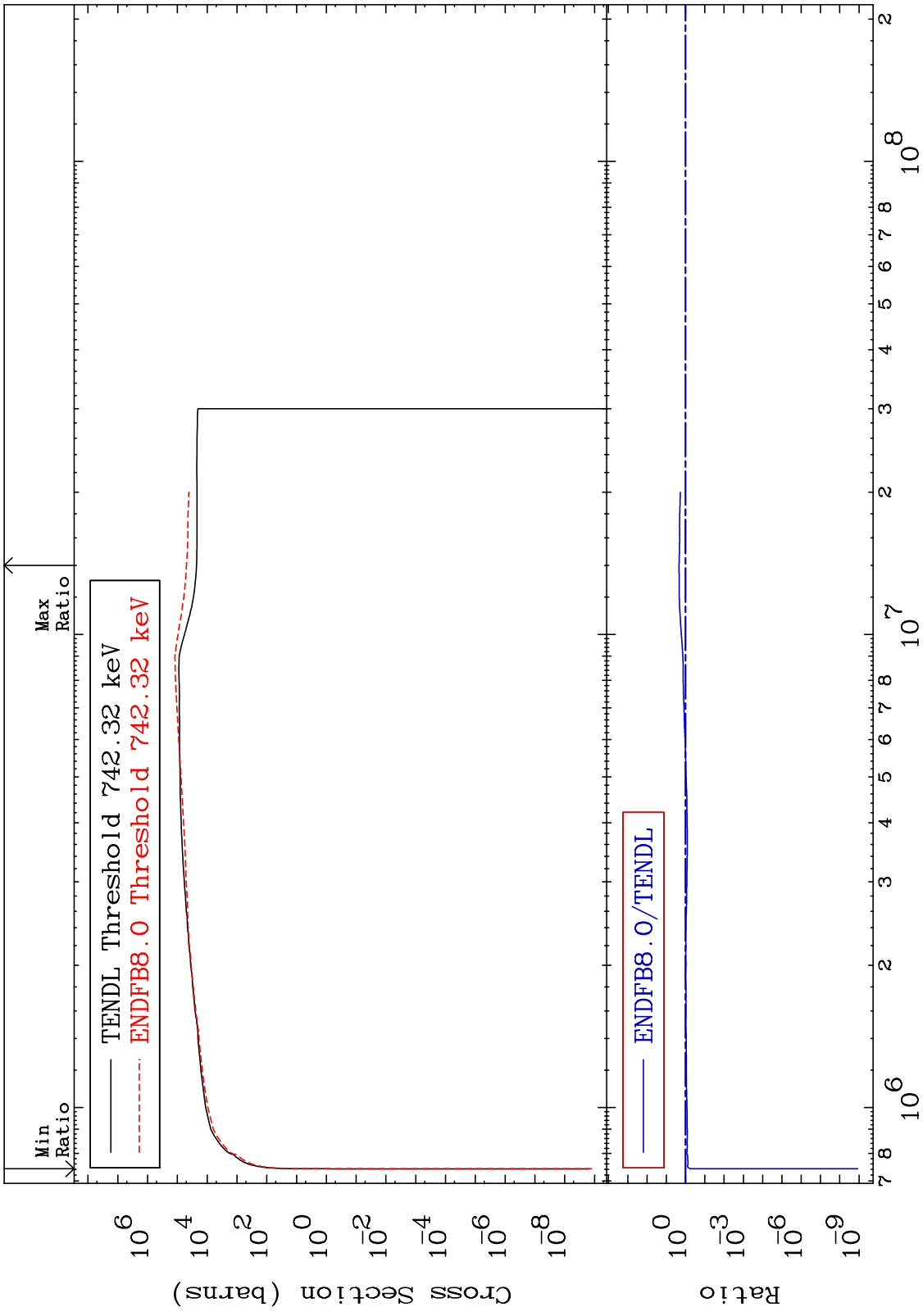
MAT 4243

Dpa elastic (mt2)
Cross Section

42-Mo-98
-99.97 To 9999. %



MAT 4243 Dpa inelastic (mt51-91) 42-Mo-98
Cross Section -100.0 To 117.6 %



MAT 4243 Dpa disappearance (mt102 -120) 42-Mo-98
 Cross Section -99.89 To 9999. %

