

Program Complot
(Version 2018-1)

by

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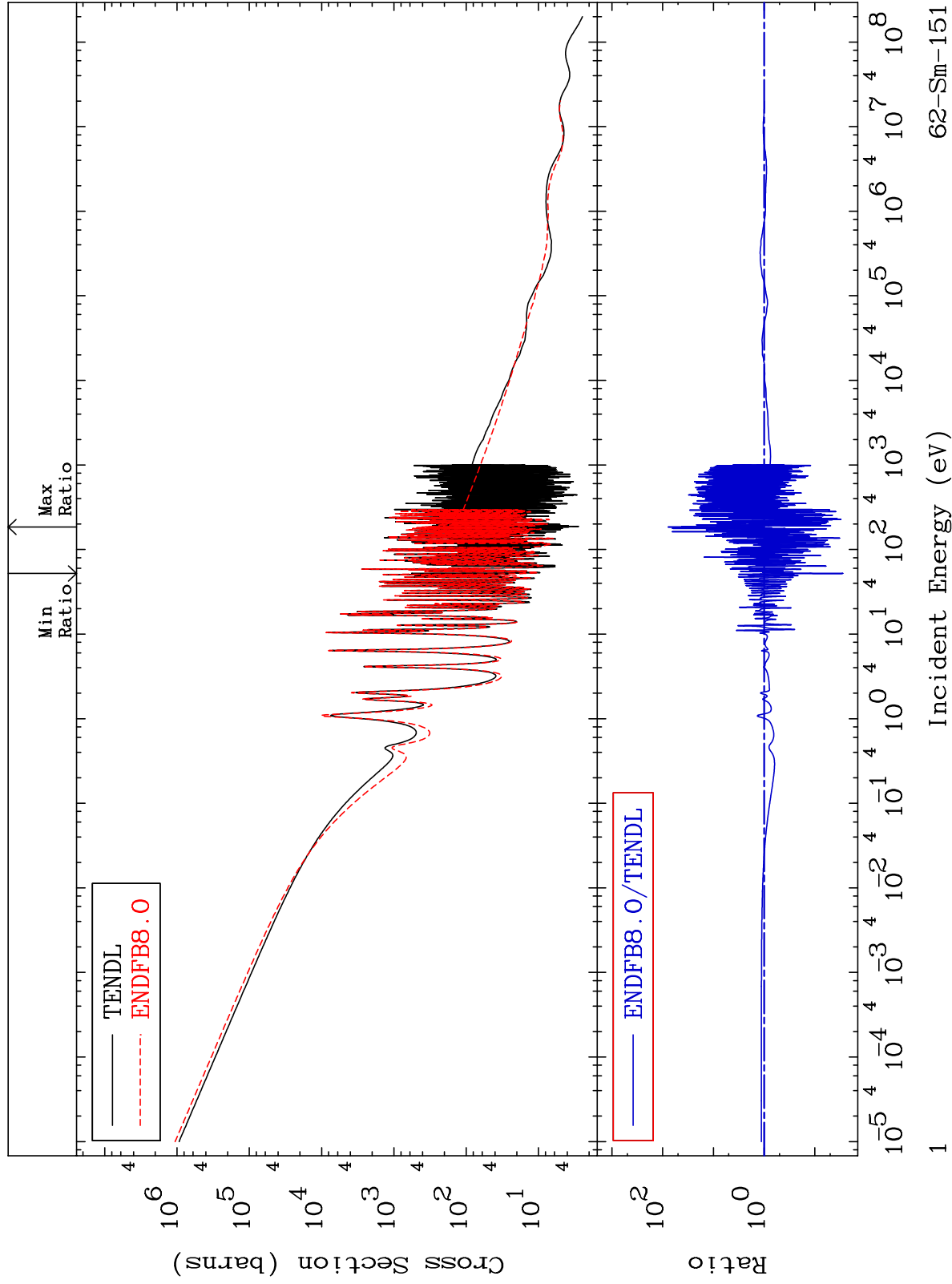
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6246

Total
Cross Section

62-Sm-151
-97.19 To 7754. %



62-Sm-151

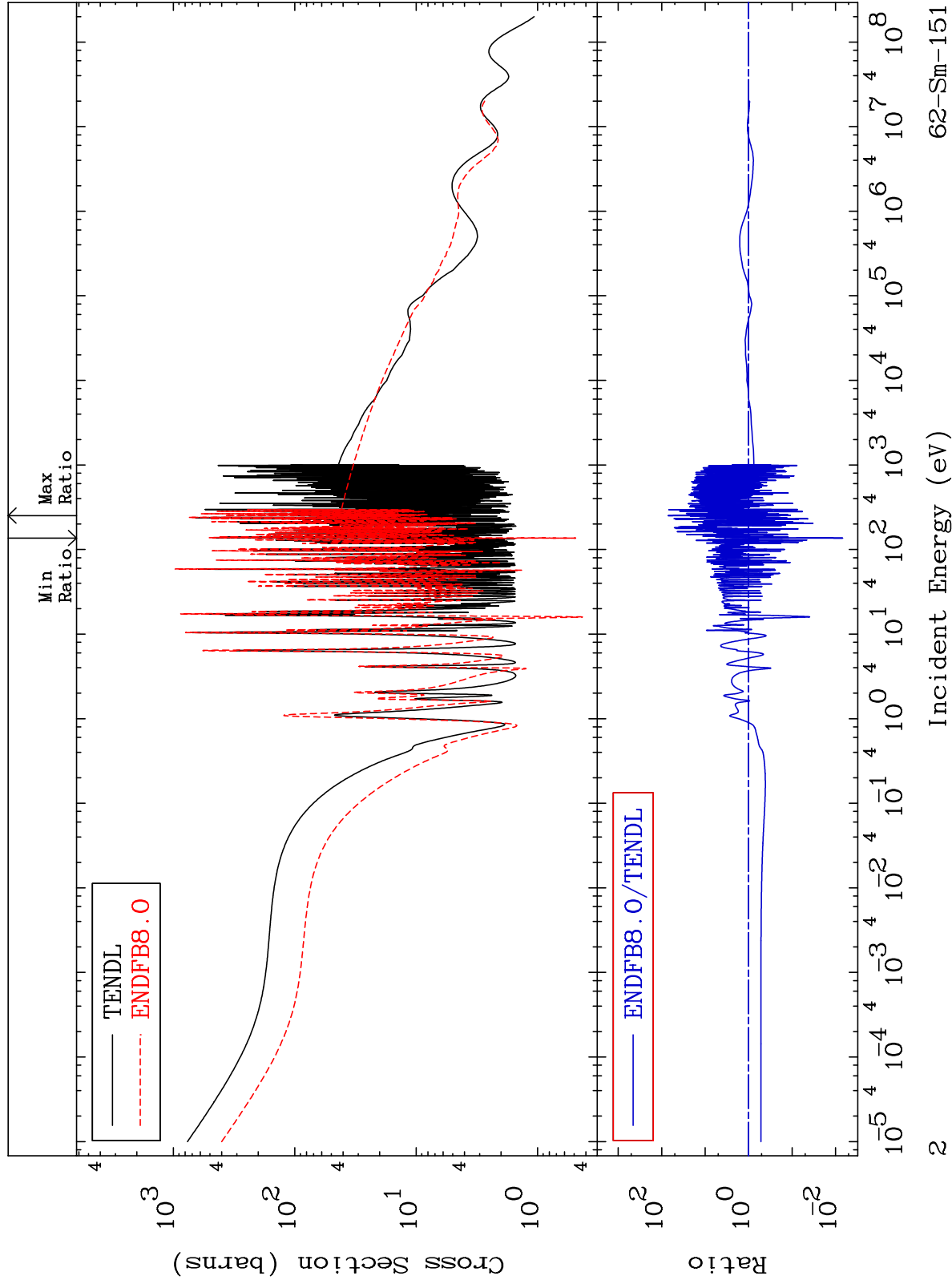
MAT 6246

Elastic

62-Sm-151

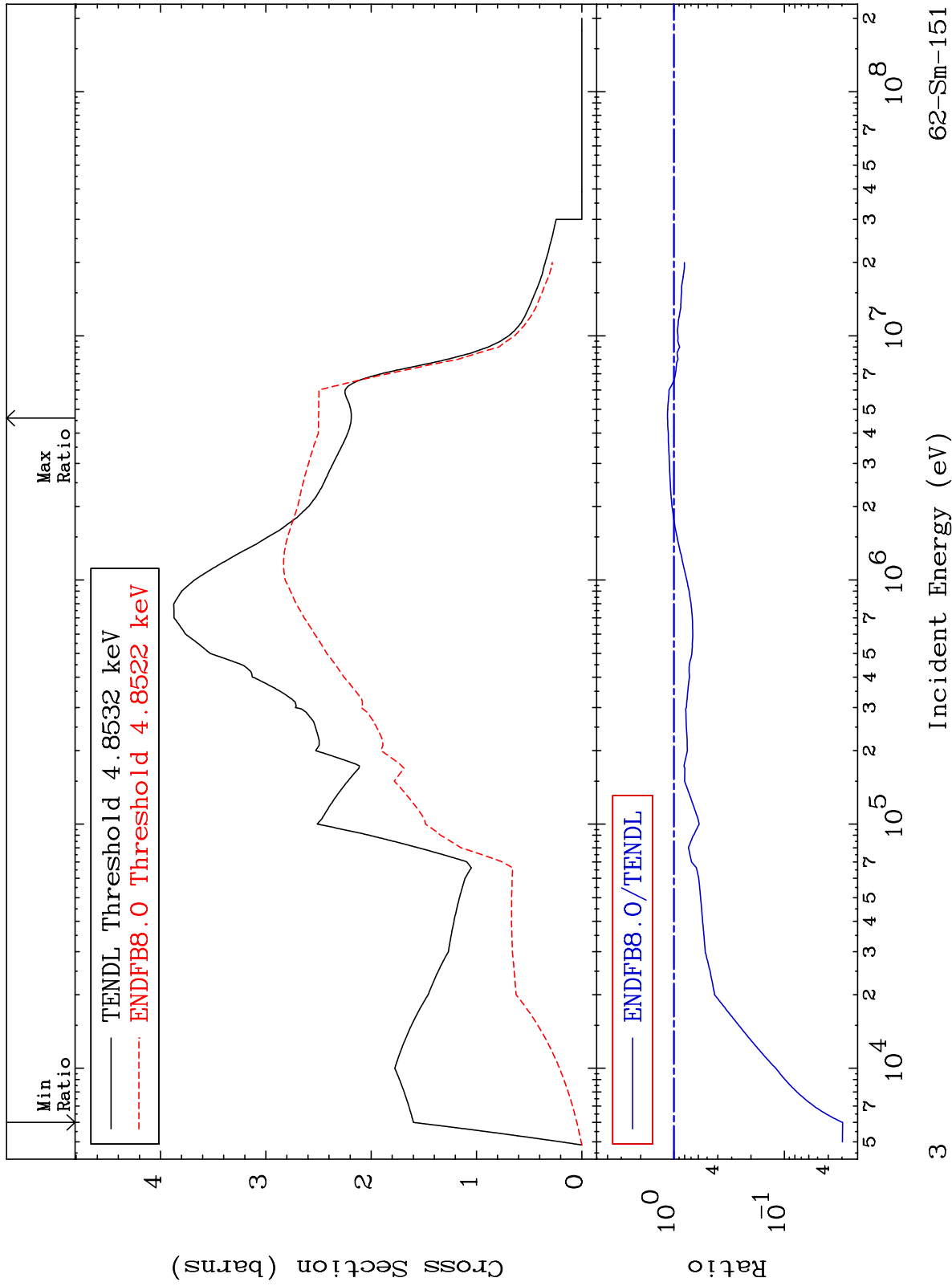
Cross Section

-99.32 To 7038. %

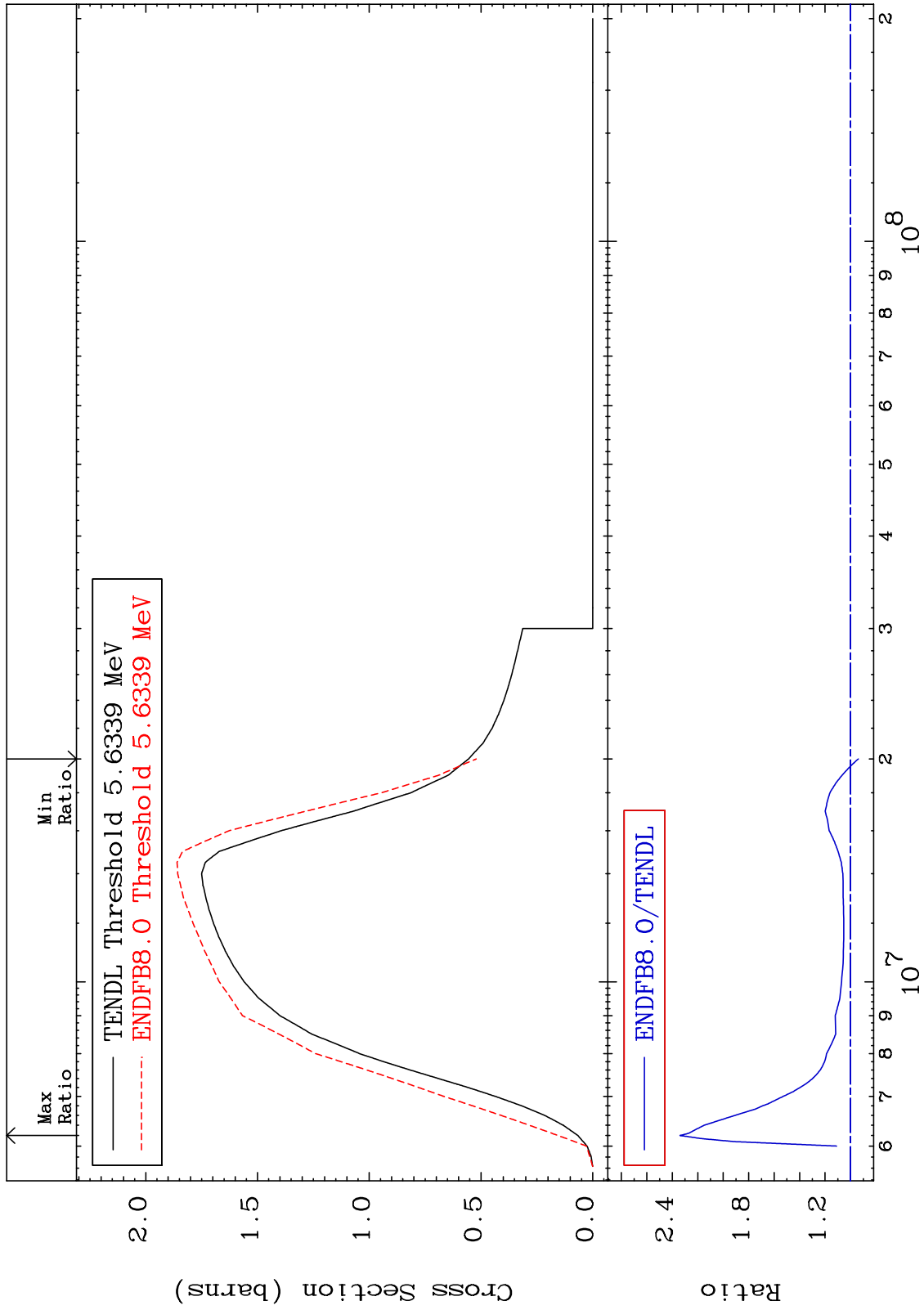


62-Sm-151

MAT 6246 Inelastic Cross Section 62-Sm-151 -97.04 To 14.22 %



MAT 6246 (n,2n) Cross Section 62-Sm-151 -6.167 To 133.9 %



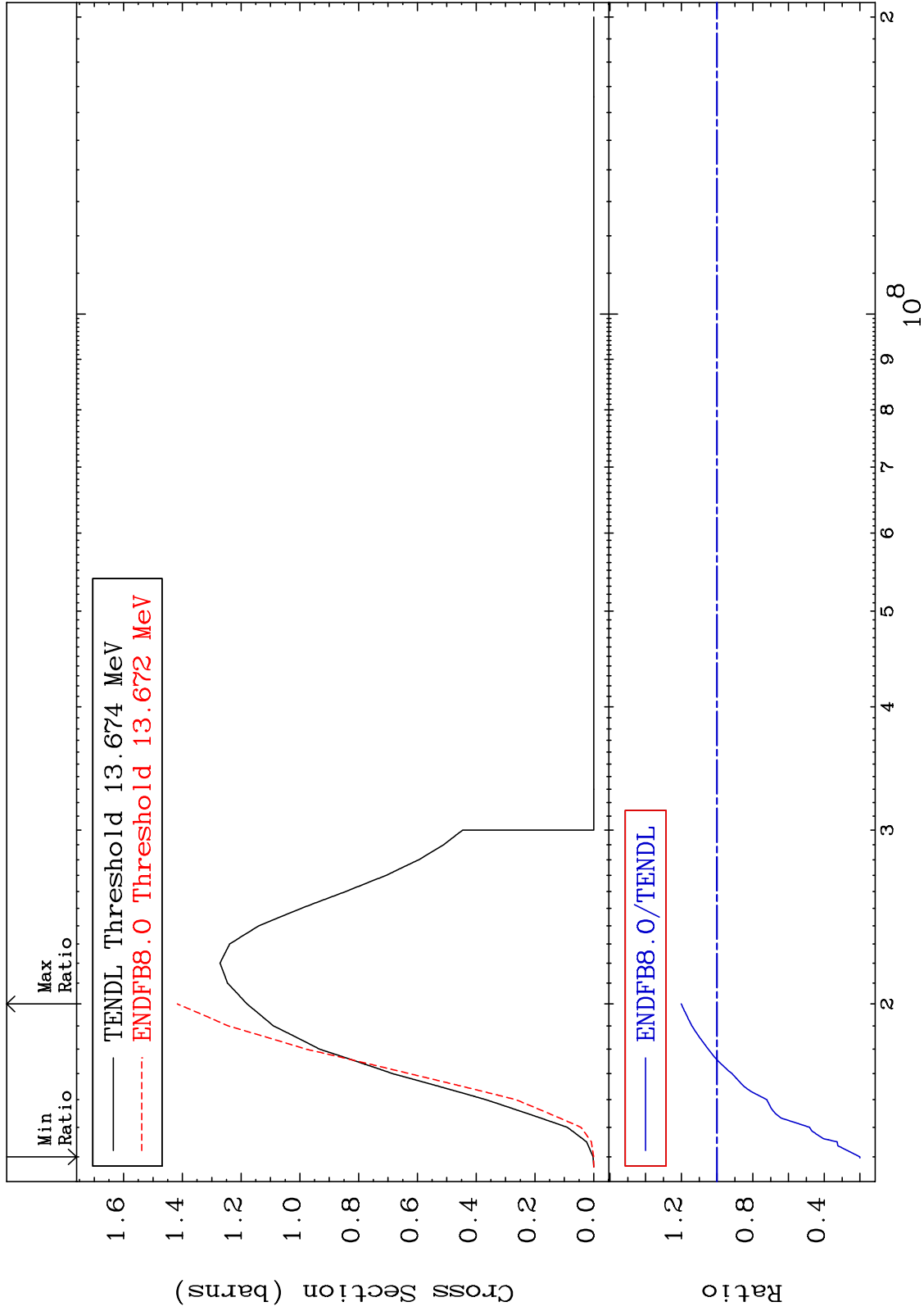
MAT 6246

(n, 3n)

62-Sm-151

Cross Section

-79.99 To 20.08 %



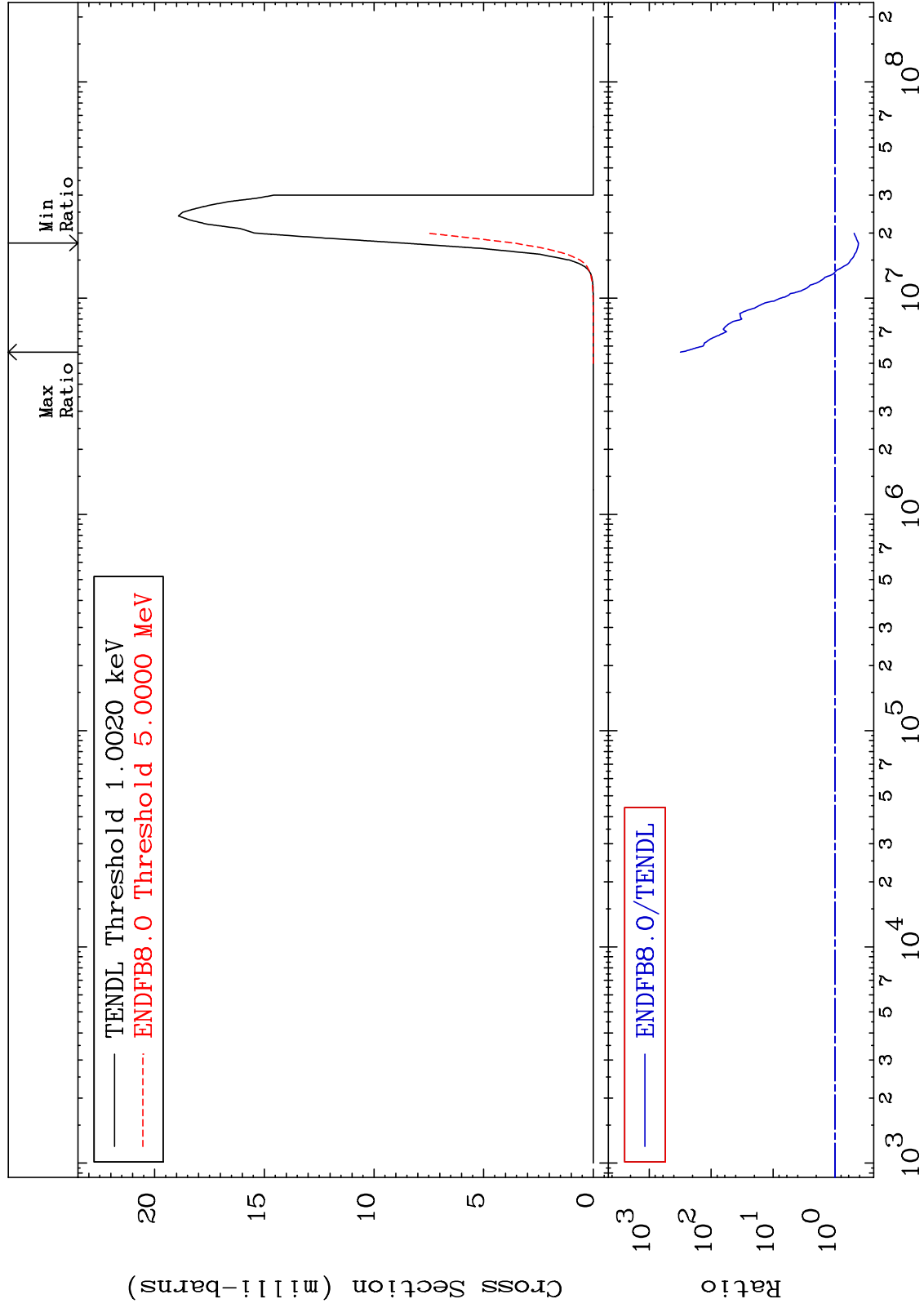
MAT 6246

(n,n') α

Cross Section

62-Sm-151

-58.38 To 9999. %



62-Sm-151

Incident Energy (eV)

6

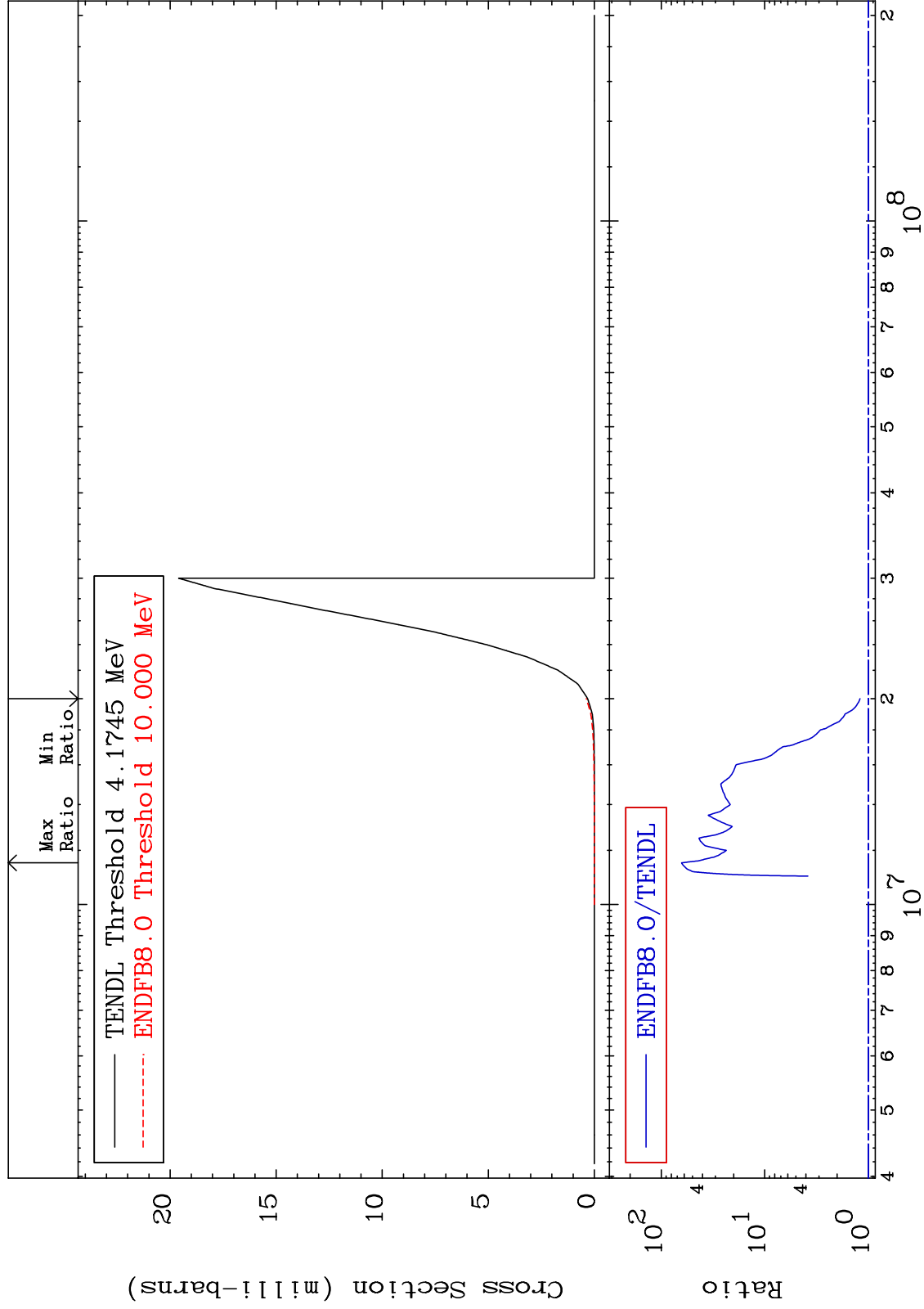
MAT 6246

(n,2n) α

62-Sm-151

20.14 To 6255. %

Cross Section



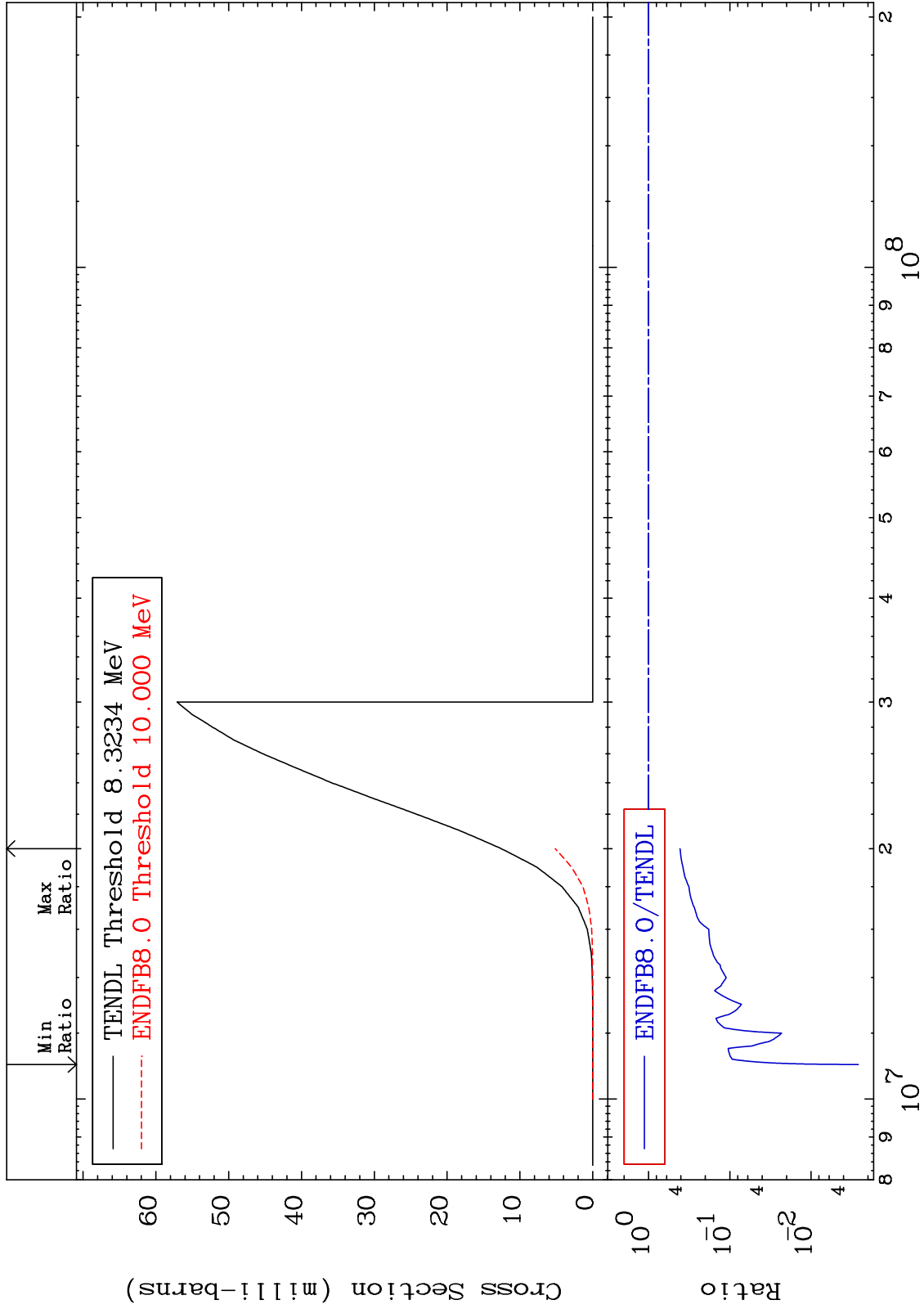
Incident Energy (eV)

62-Sm-151

MAT 6246

(n,n') p
Cross Section

62-Sm-151
-99.74 To -59.01%



8

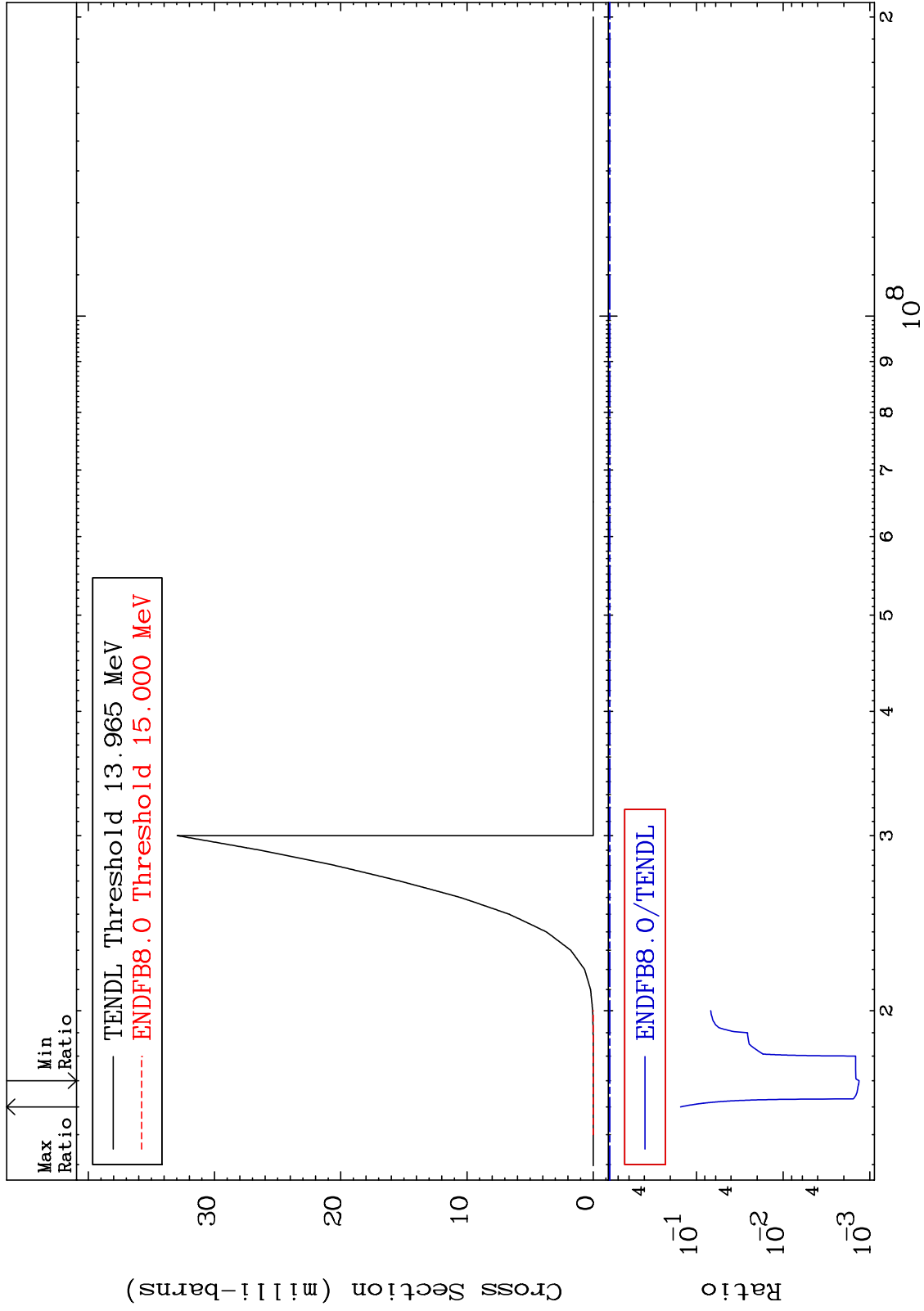
Incident Energy (eV)

62-Sm-151

MAT 6246

(n,2n) p
Cross Section

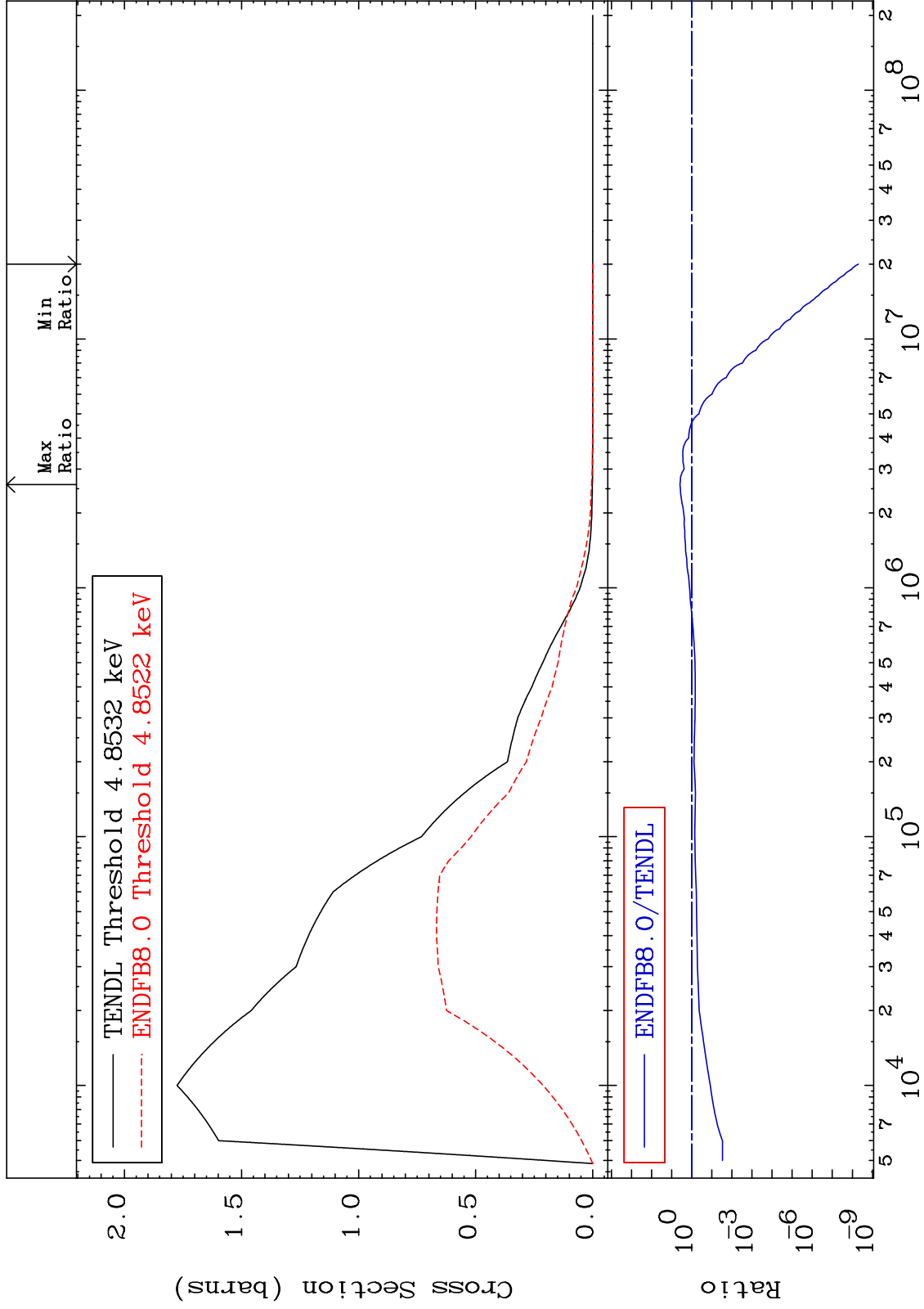
62-Sm-151
-99.87 To -84.76%



MAT 6246

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

62-Sm-151
-100.0 To 283.9 %

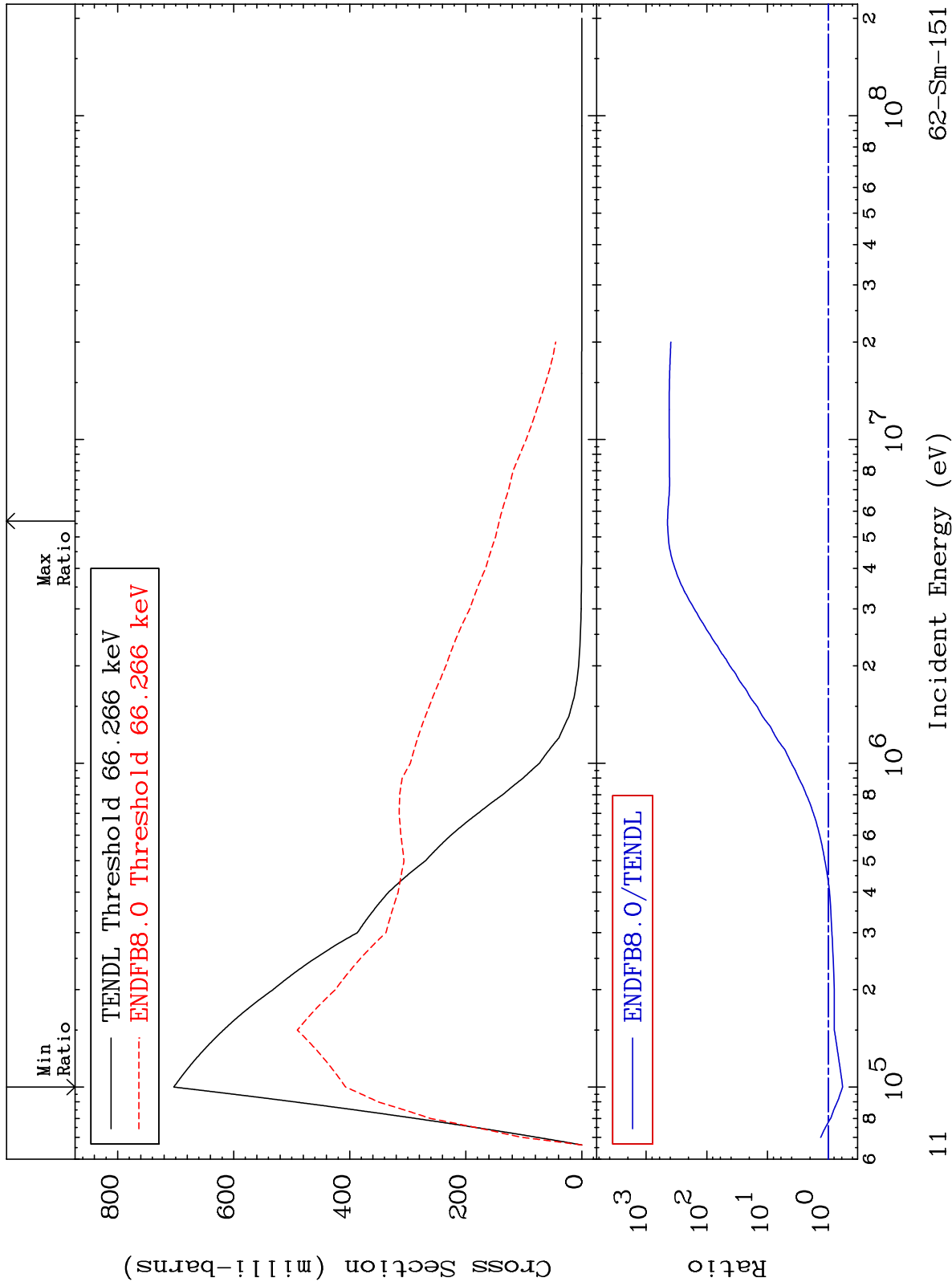


10

Incident Energy (eV)

62-Sm-151

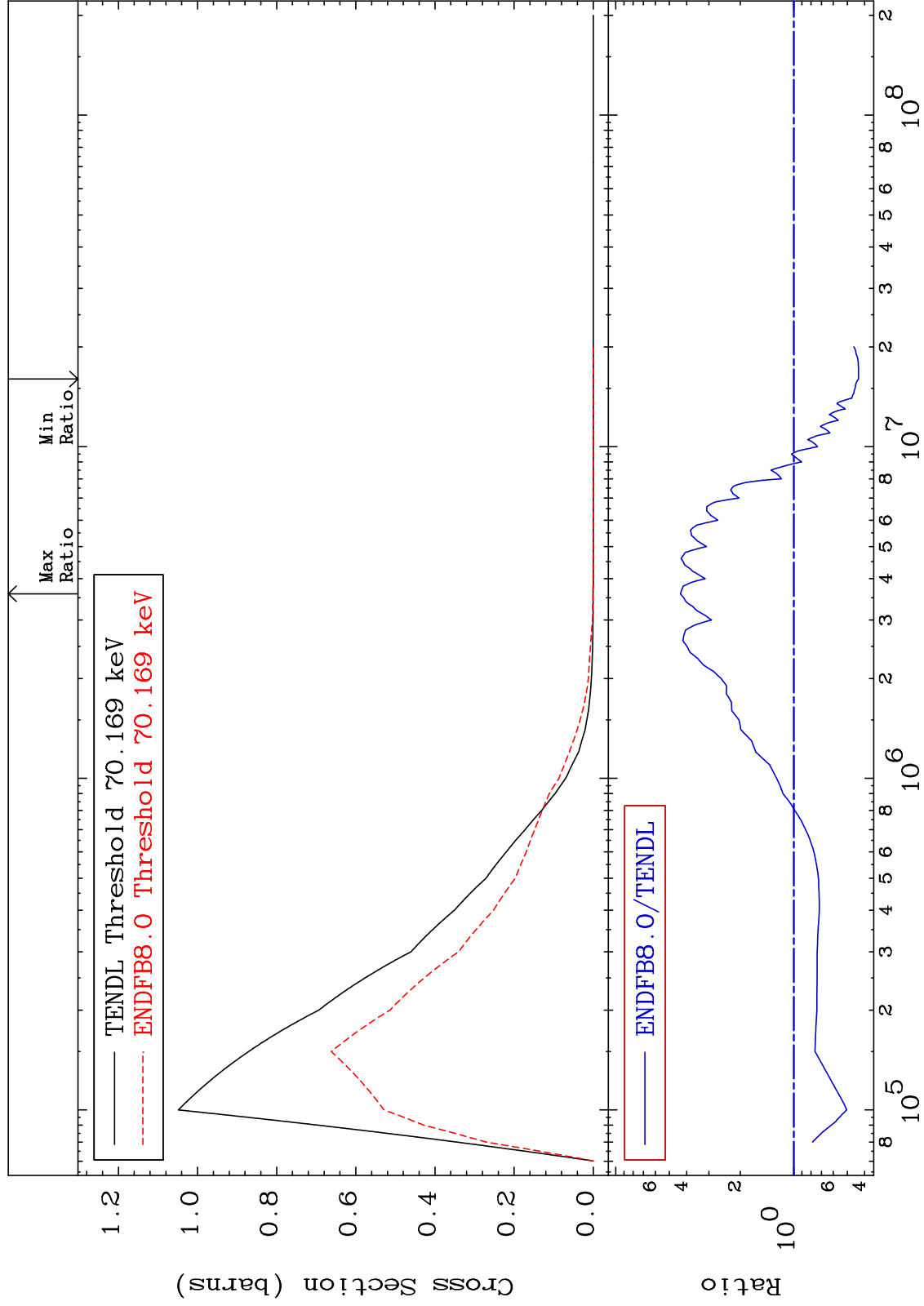
MAT 6246 MT= 52 (n, n') Level 62-Sm-151
 Cross Section -42.10 To 9999. %



MAT 6246

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

62-Sm-151
-56.72 To 333.3 %

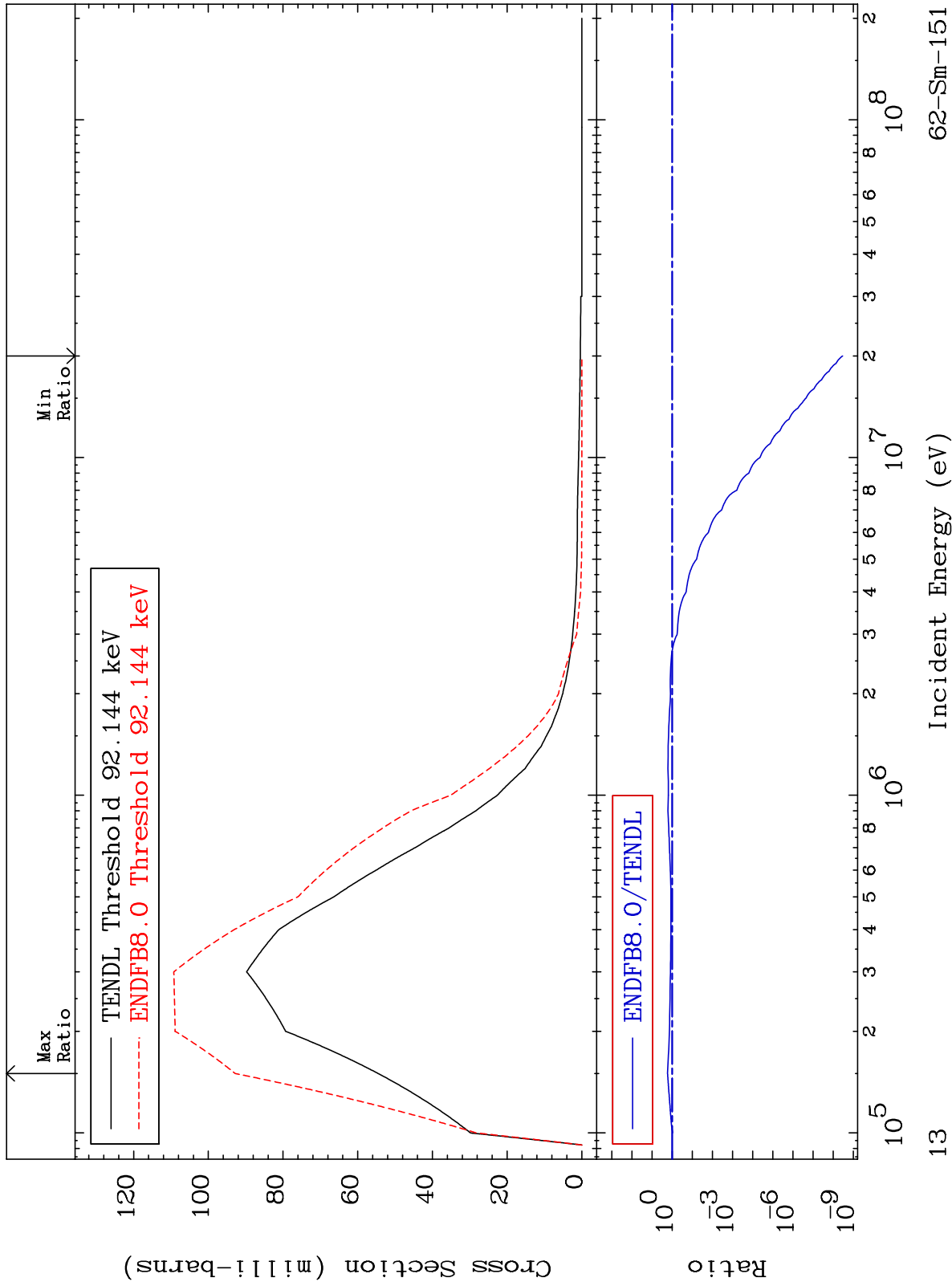


12

Incident Energy (eV)

62-Sm-151

MAT 6246 MT= 54 (n,n') Level 62-Sm-151
 Cross Section -100.0 To 70.16 %

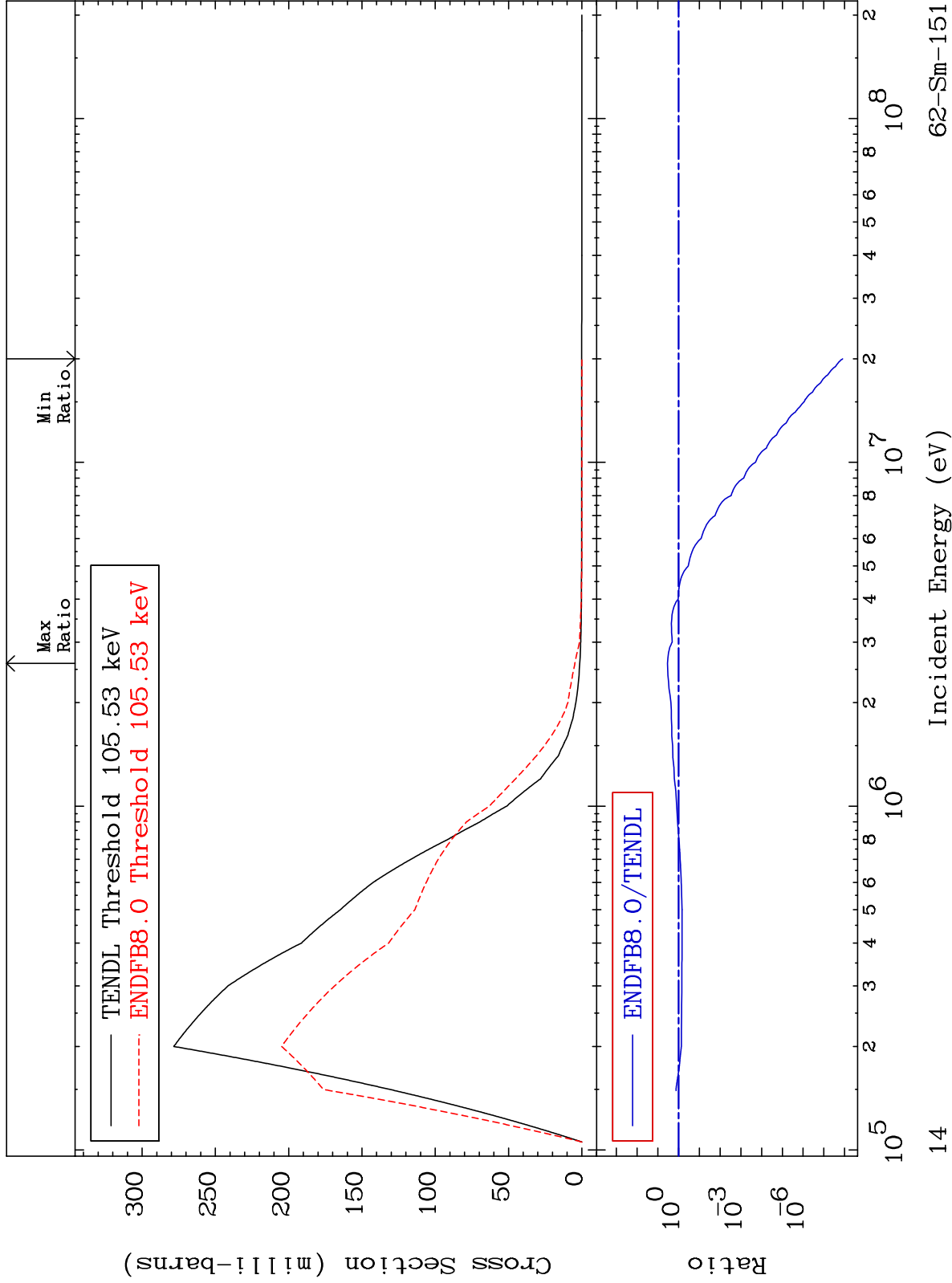


13 Incident Energy (eV) 62-Sm-151

MAT 6246

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

62-Sm-151
-100.0 To 242.6 %



62-Sm-151

Incident Energy (eV)

14

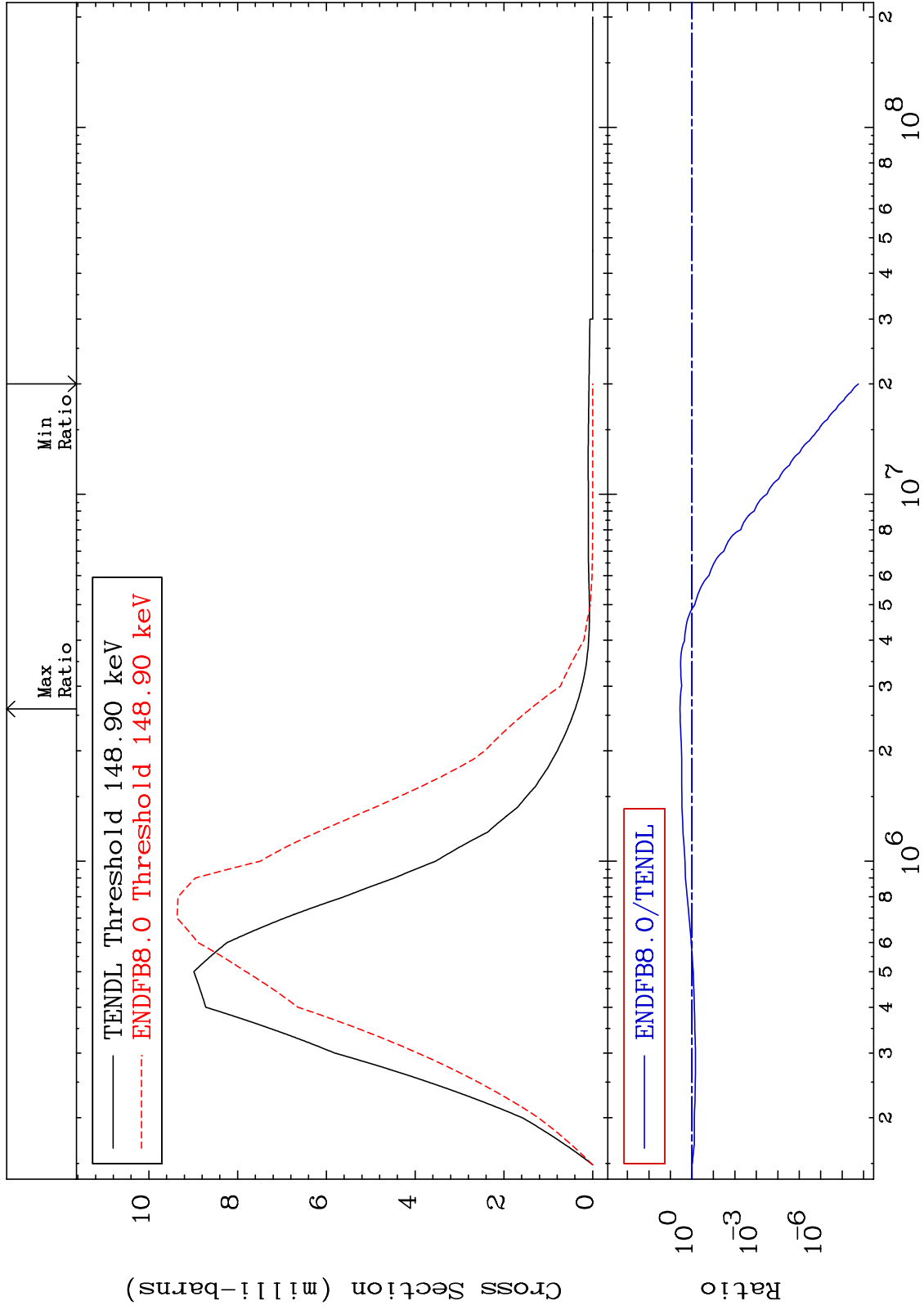
MAT 6246

MT= 56 (n,n') Level

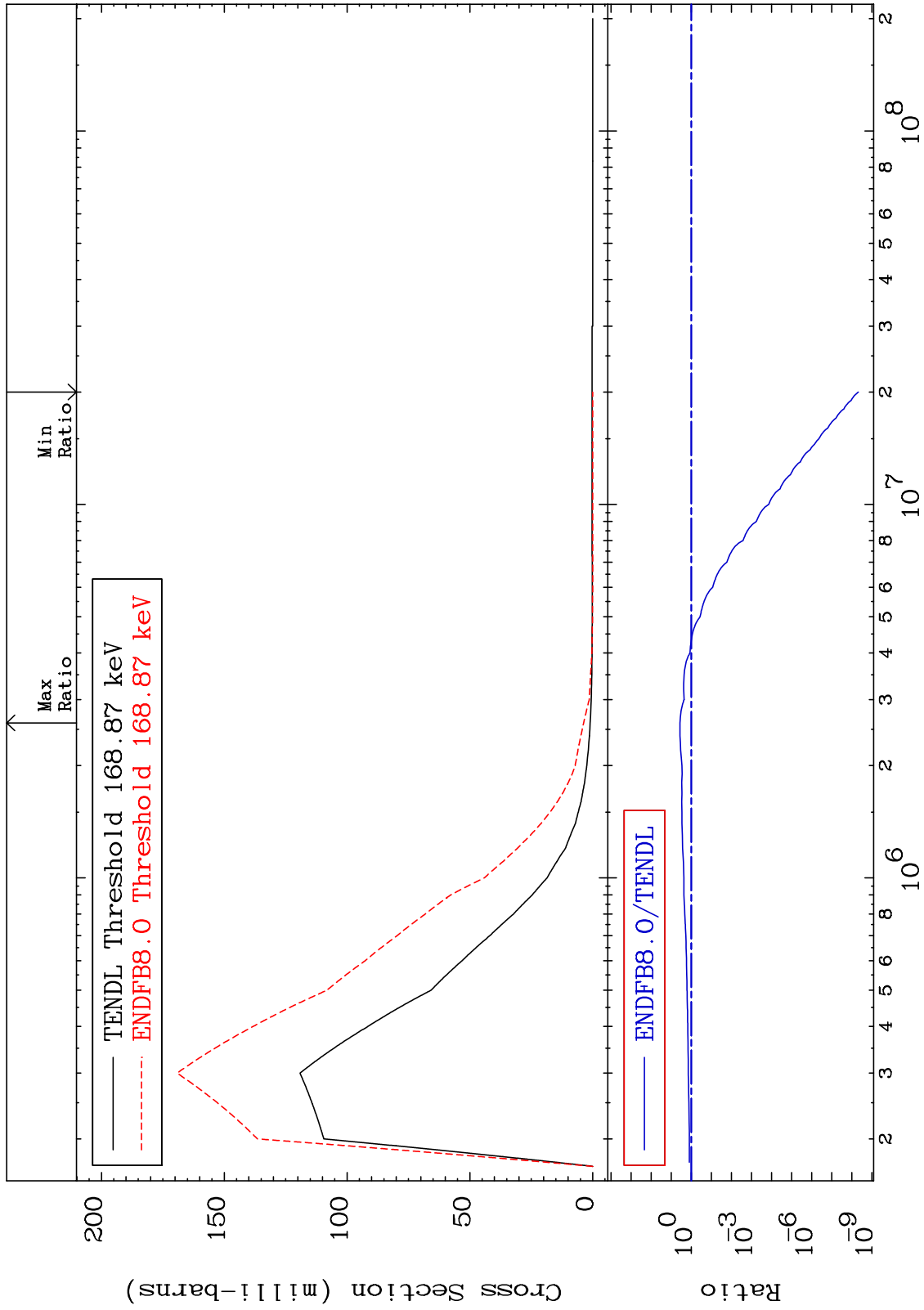
62-Sm-151

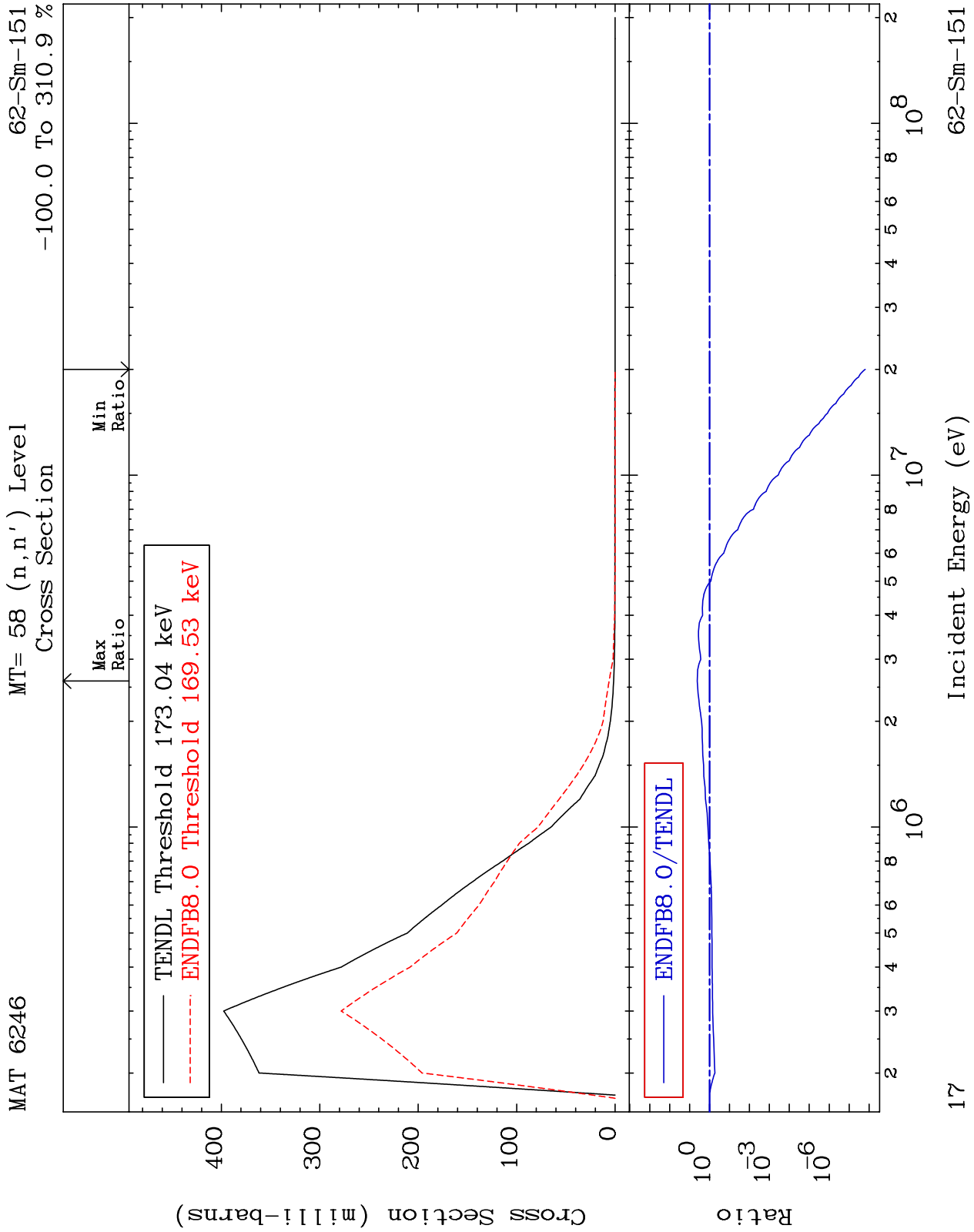
-100.0 To 257.4 %

Cross Section

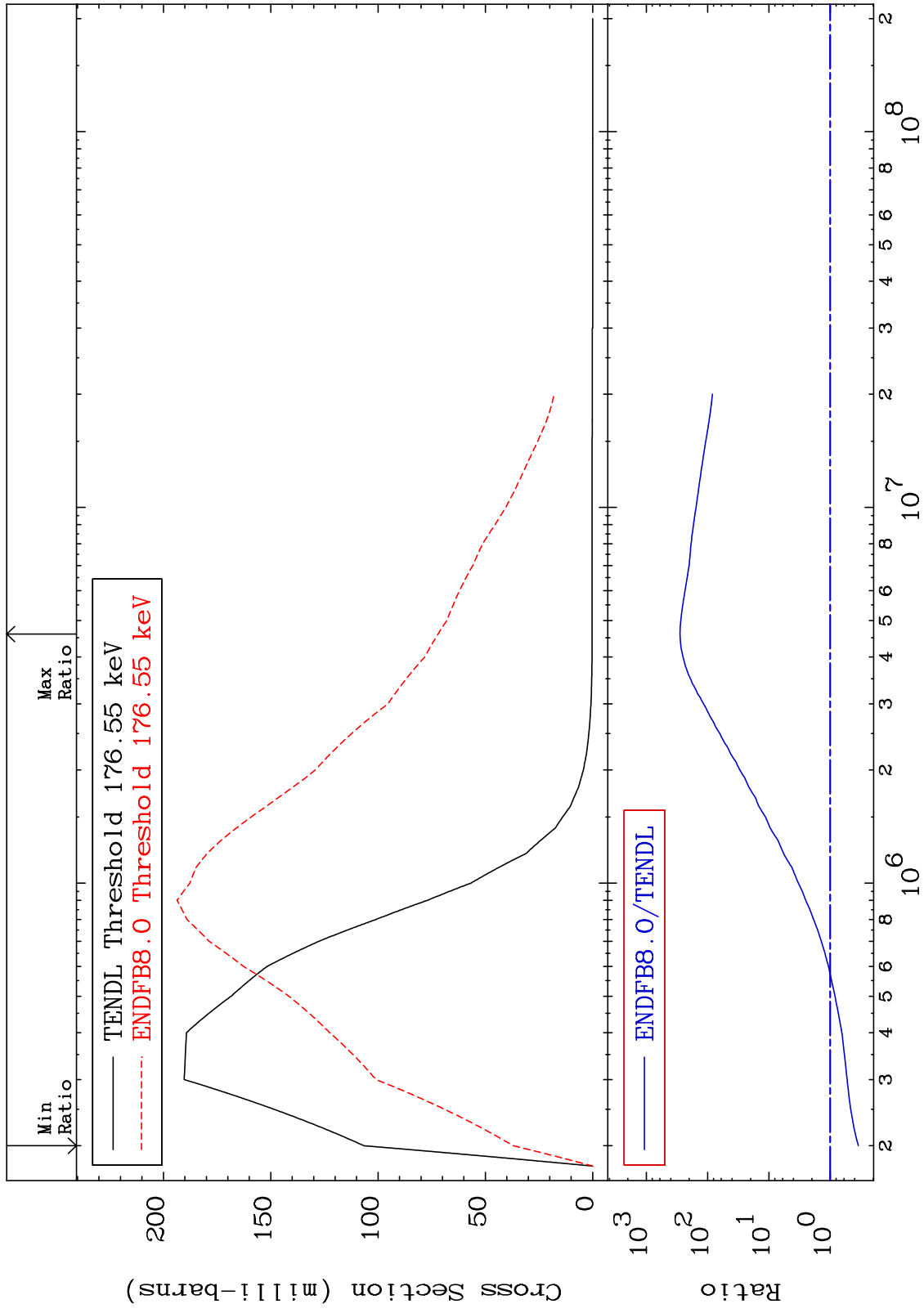


MAT 6246 MT= 57 (n,n') Level 62-Sm-151
 Cross Section -100.0 To 266.8 %





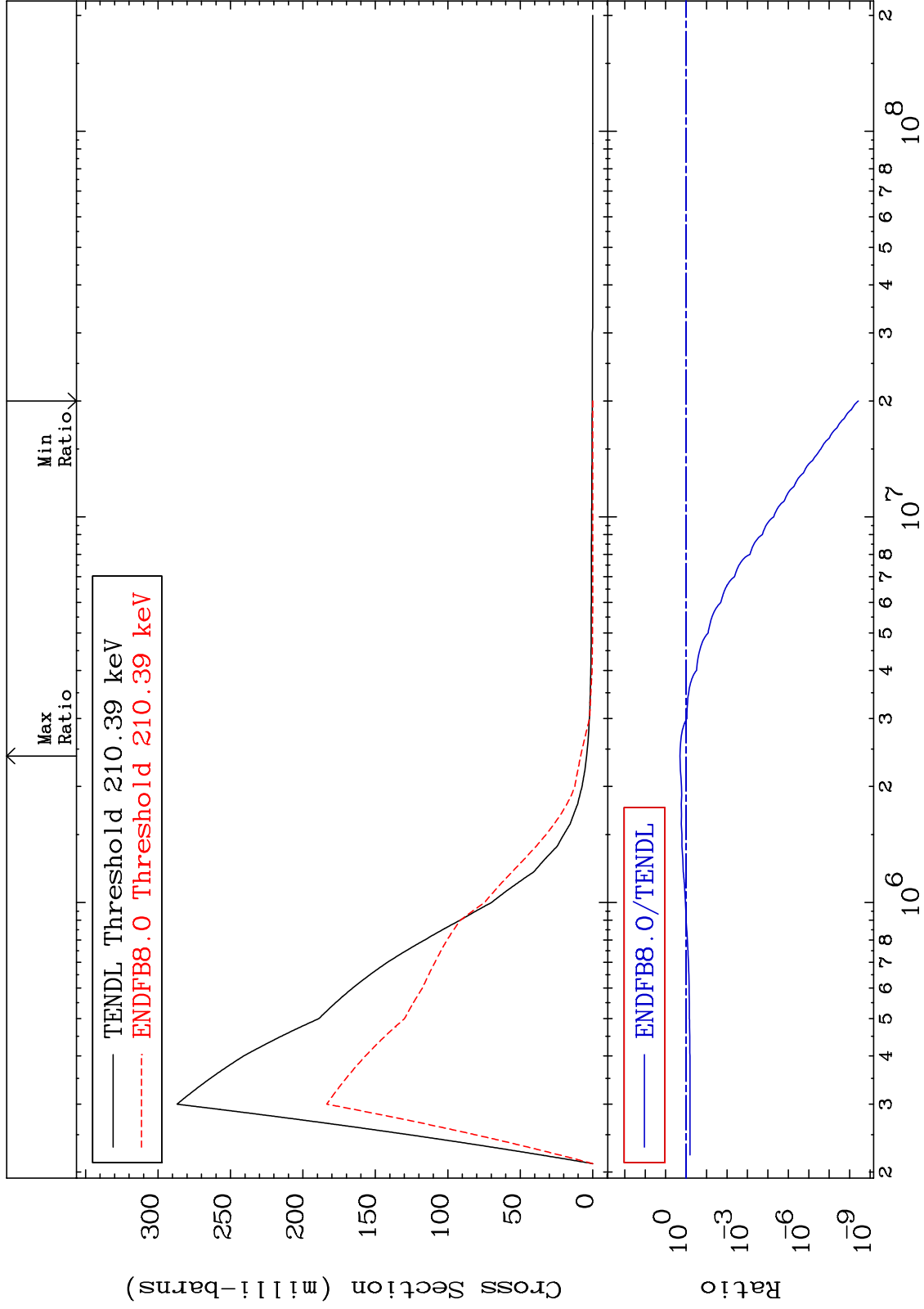
MAT 6246 MT= 59 (n,n') Level 62-Sm-151
 Cross Section -65.23 To 9999. %



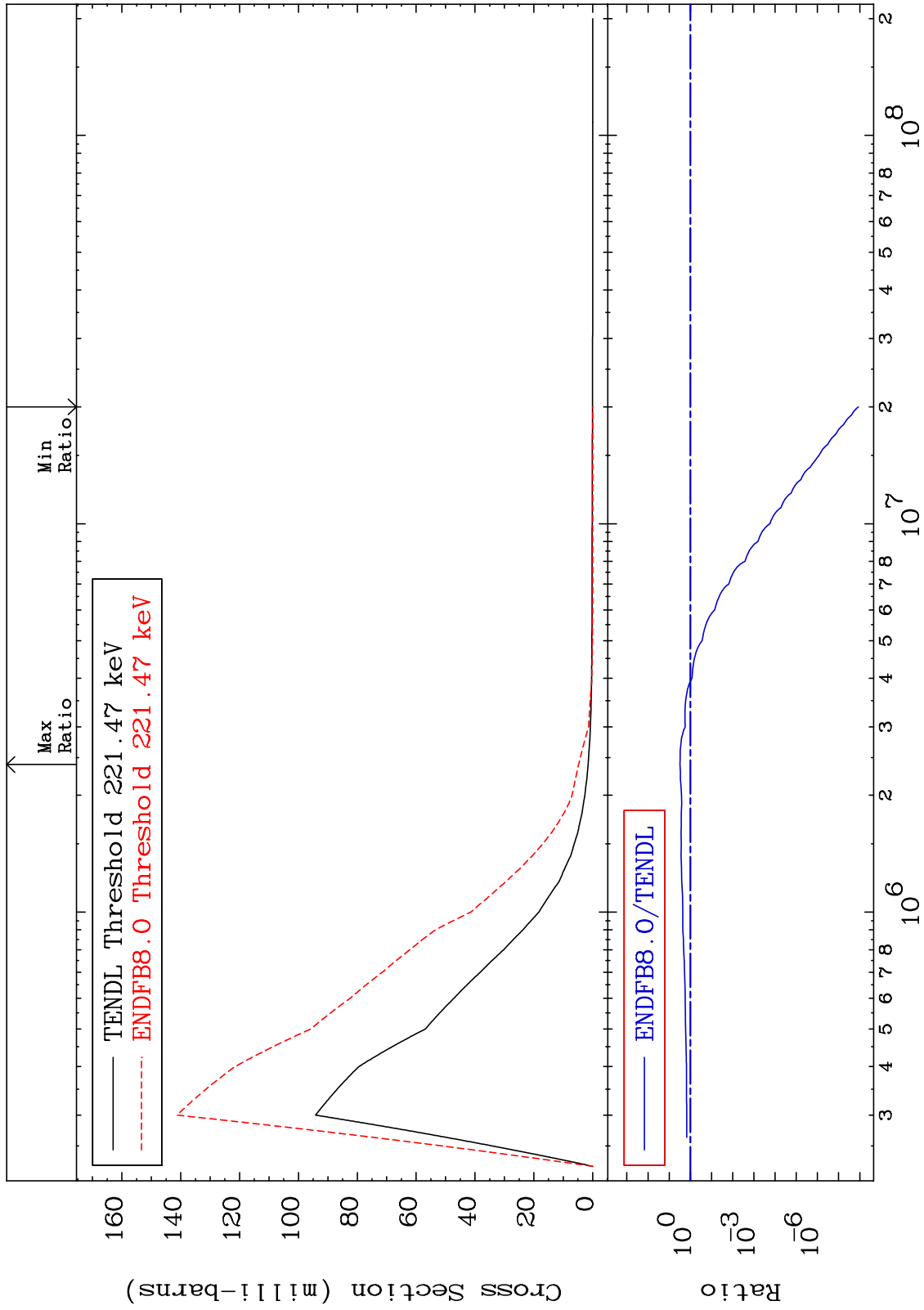
MAT 6246

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

62-Sm-151
-100.0 To 97.94 %

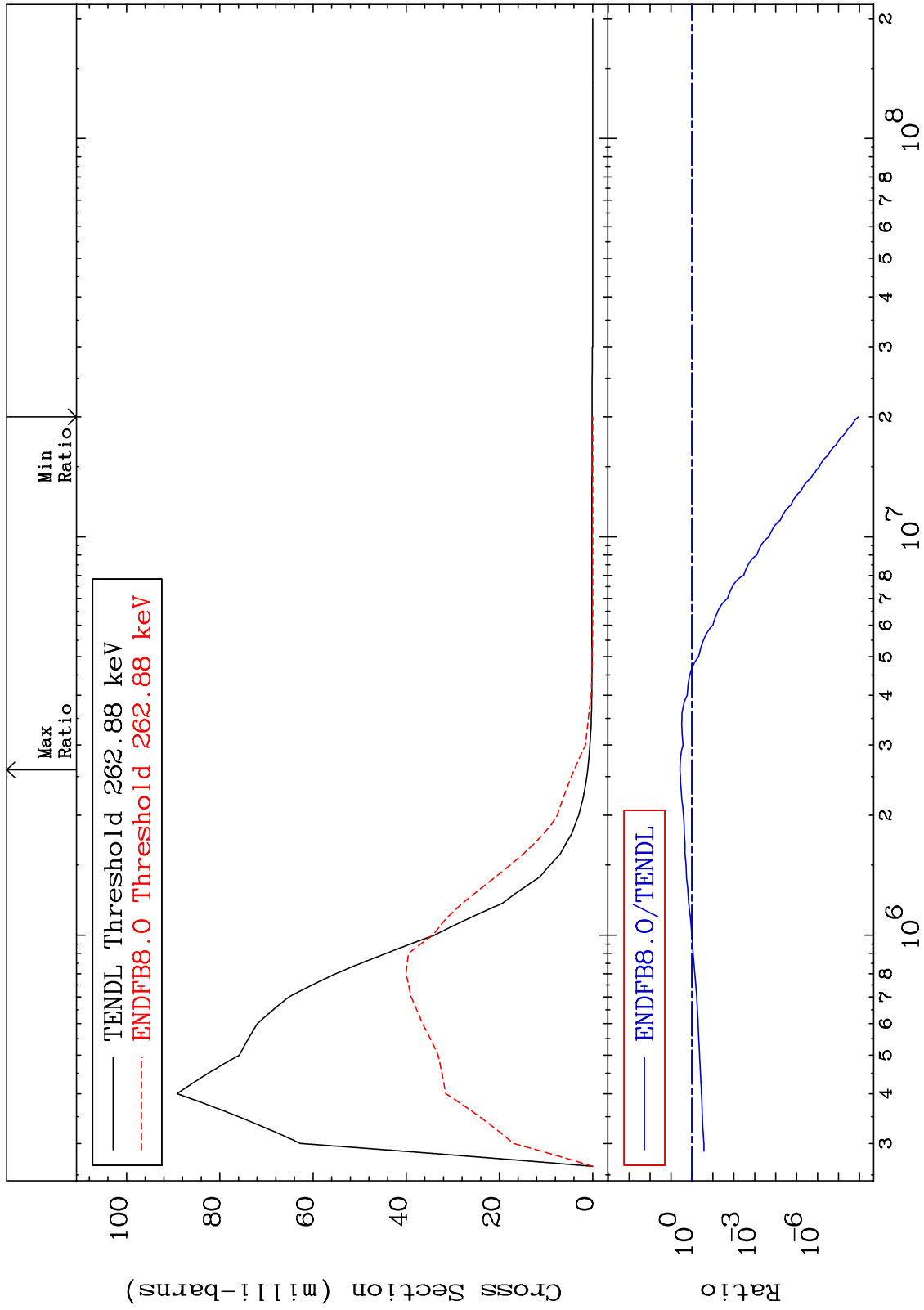


MAT 6246 MT= 61 (n,n') Level Cross Section 62-Sm-151
 -100.0 To 207.9 %



20 Incident Energy (eV) 62-Sm-151

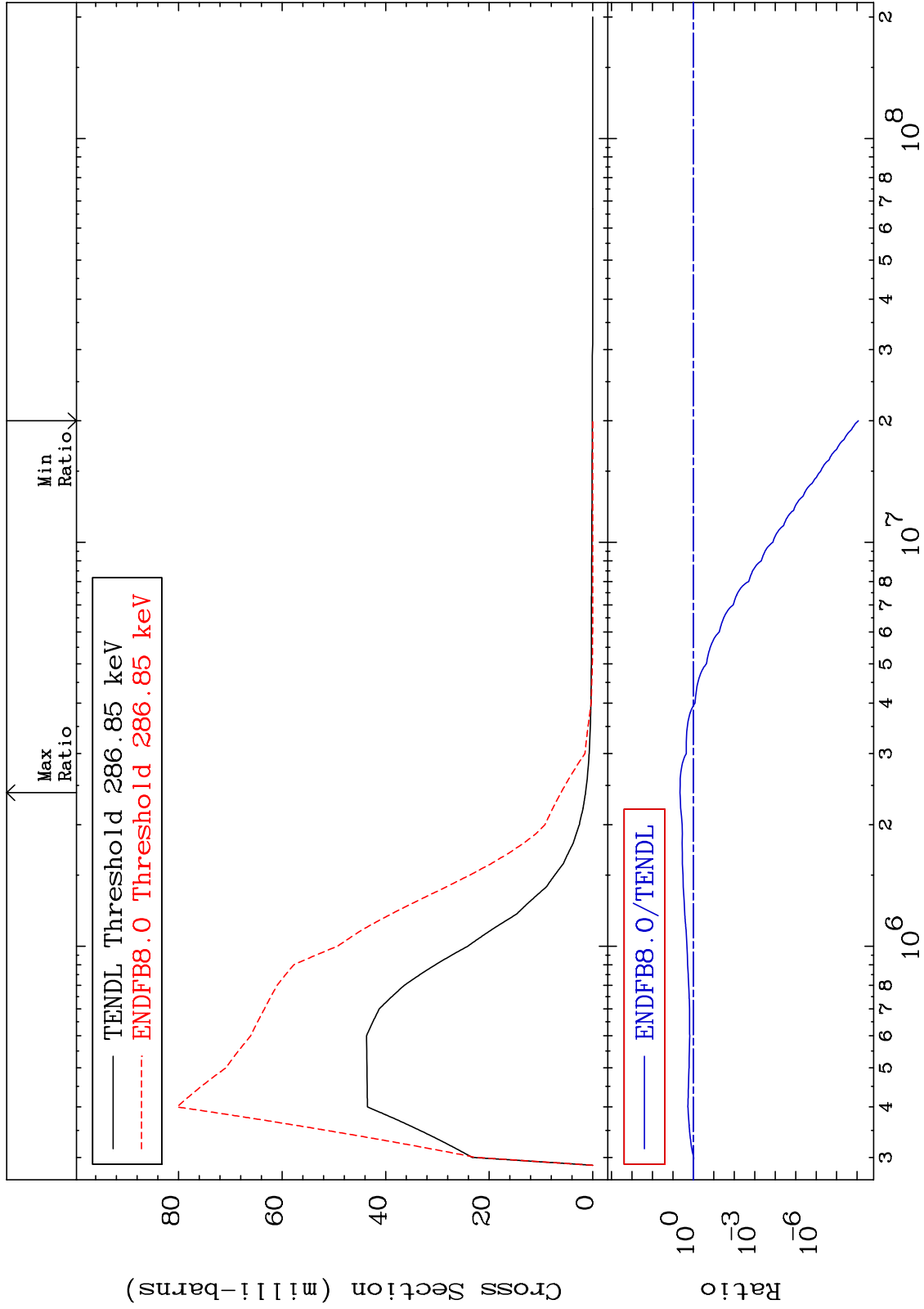
MAT 6246 MT= 62 (n,n') Level Cross Section 62-Sm-151
 -100.0 To 272.2 %

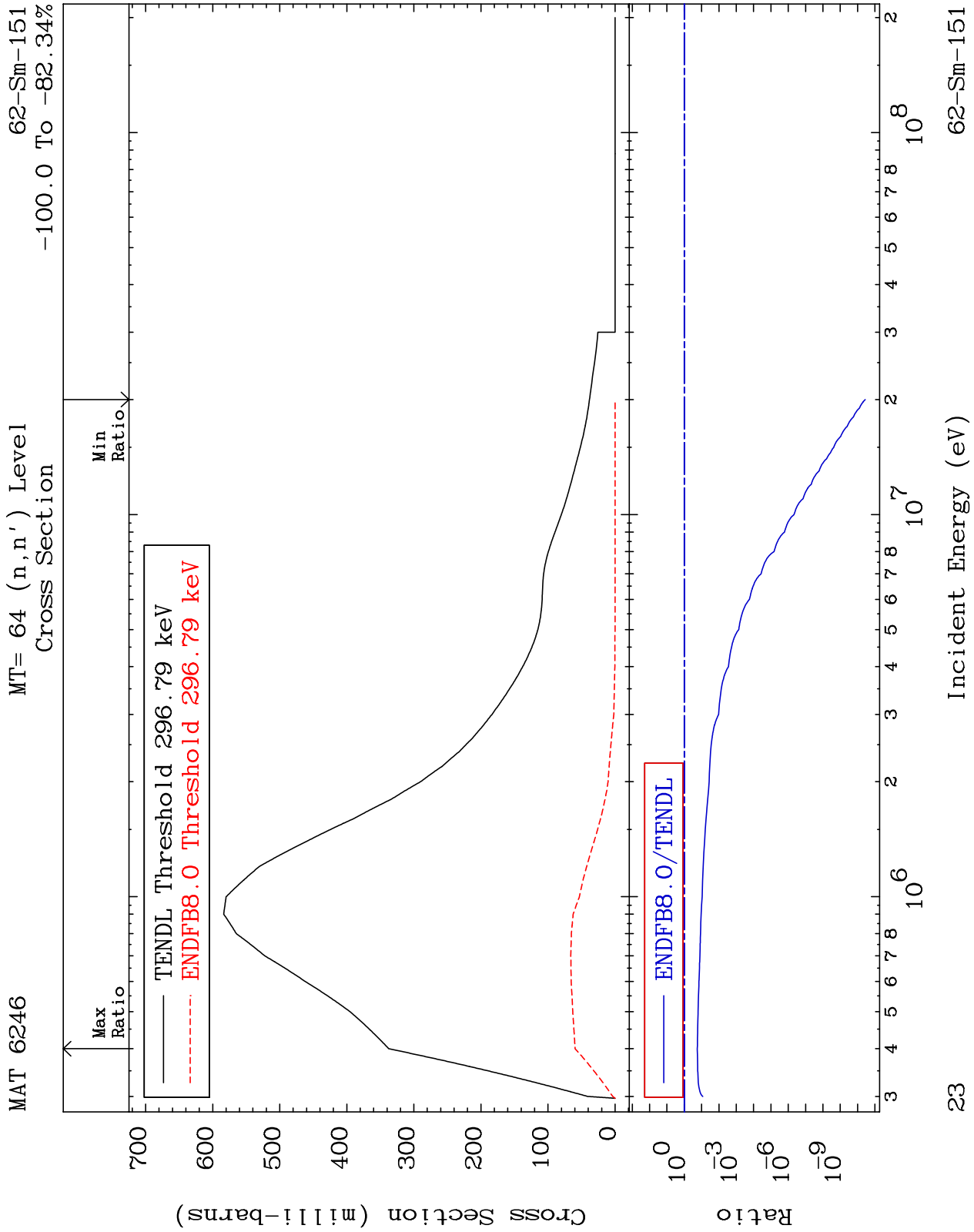


MAT 6246

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

62-Sm-151
-100.0 To 347.5 %

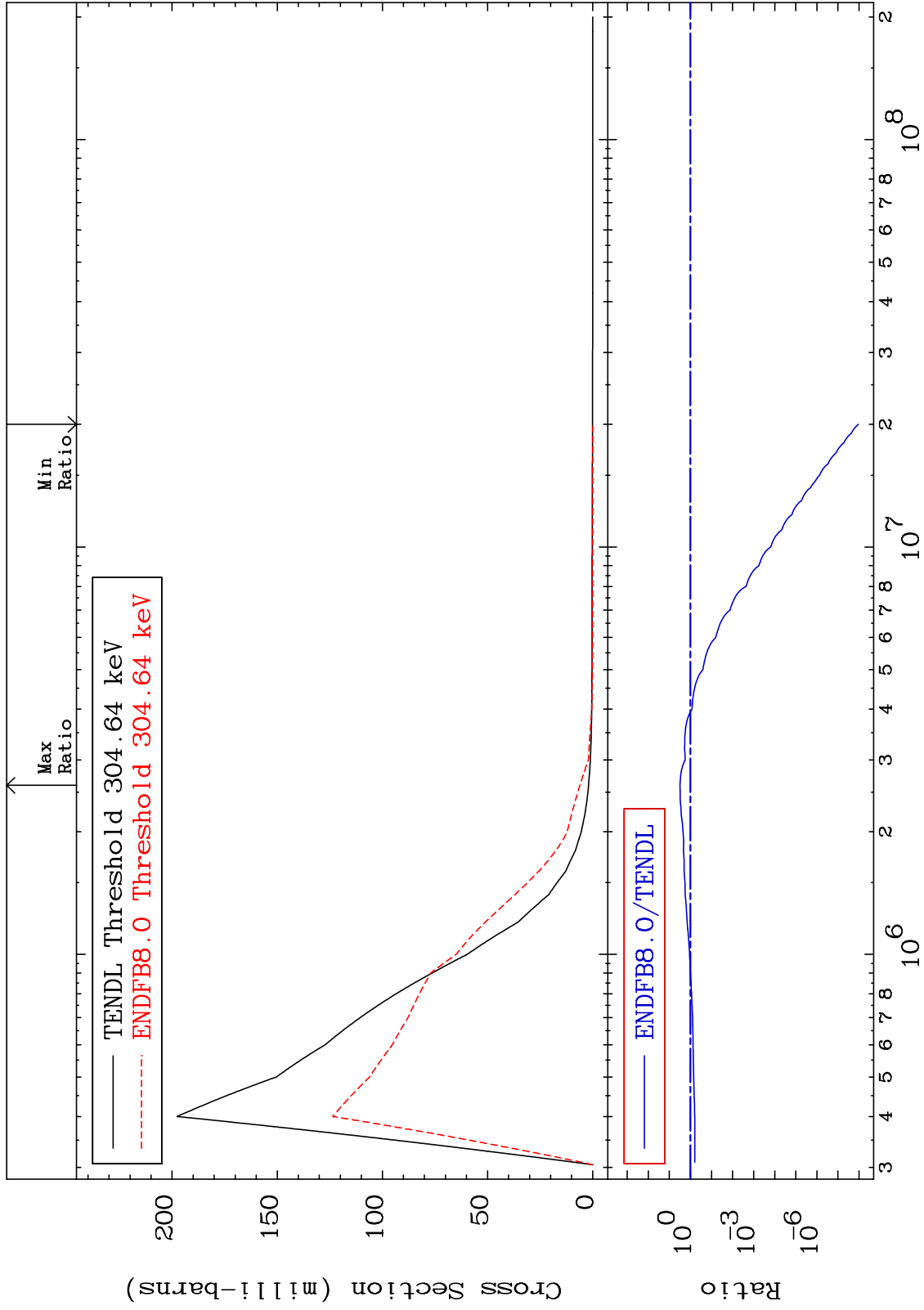




MAT 6246

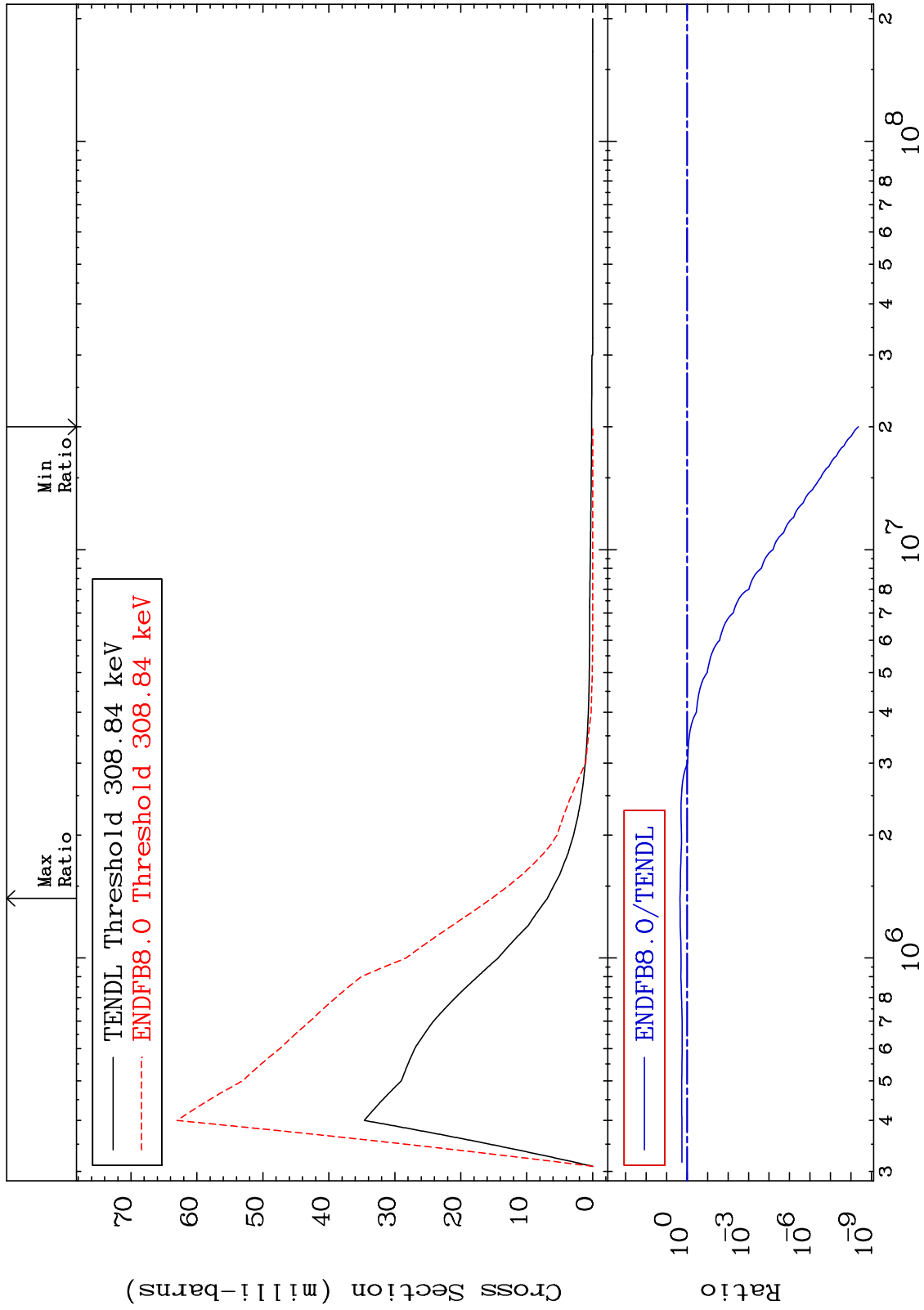
MT= 65 (n,n') Level
Cross Section

62-Sm-151
-100.0 To 211.2 %



62-Sm-151

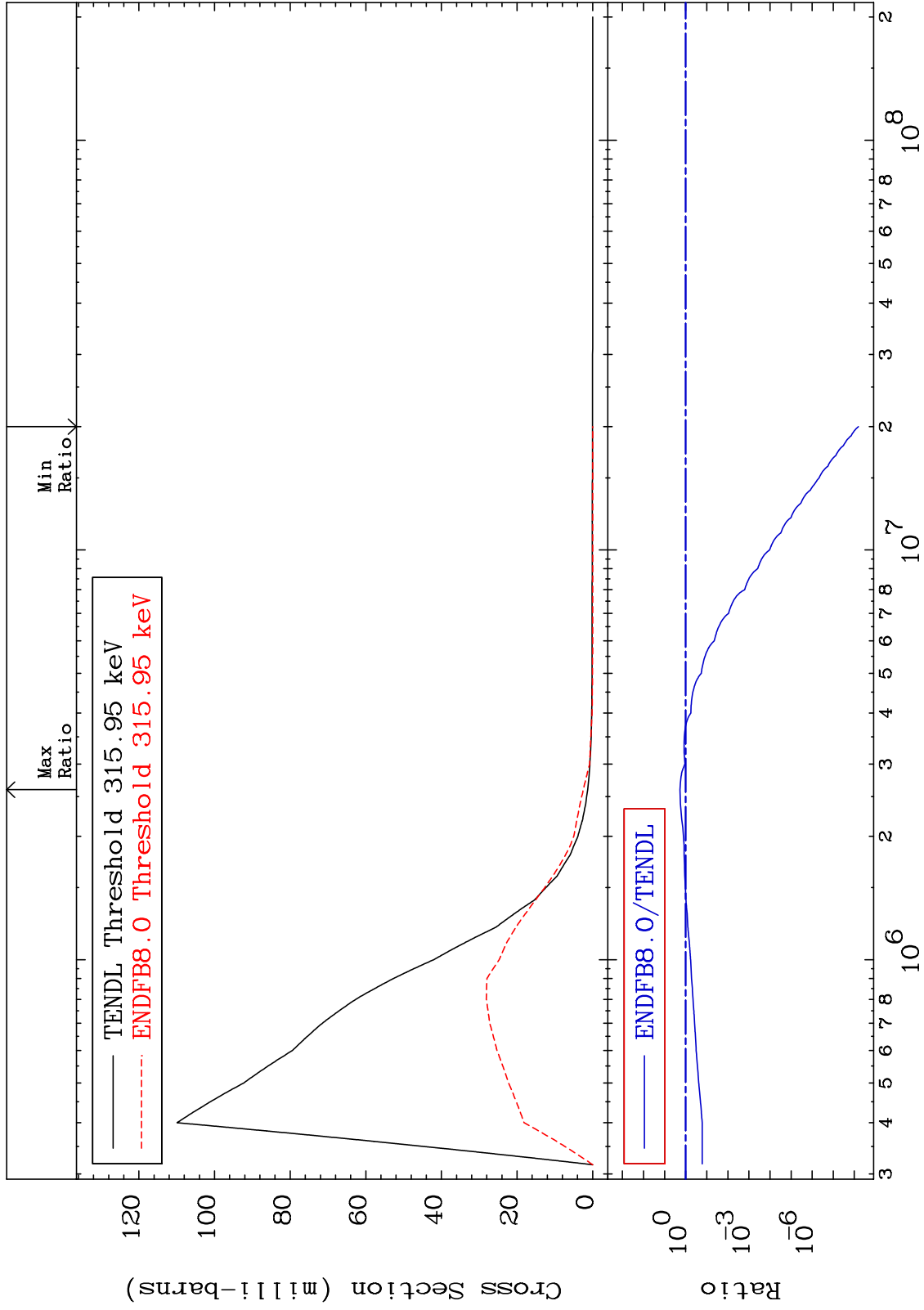
MAT 6246 MT= 66 (n,n') Level Cross Section 62-Sm-151
 -100.0 To 122.5 %



MAT 6246

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

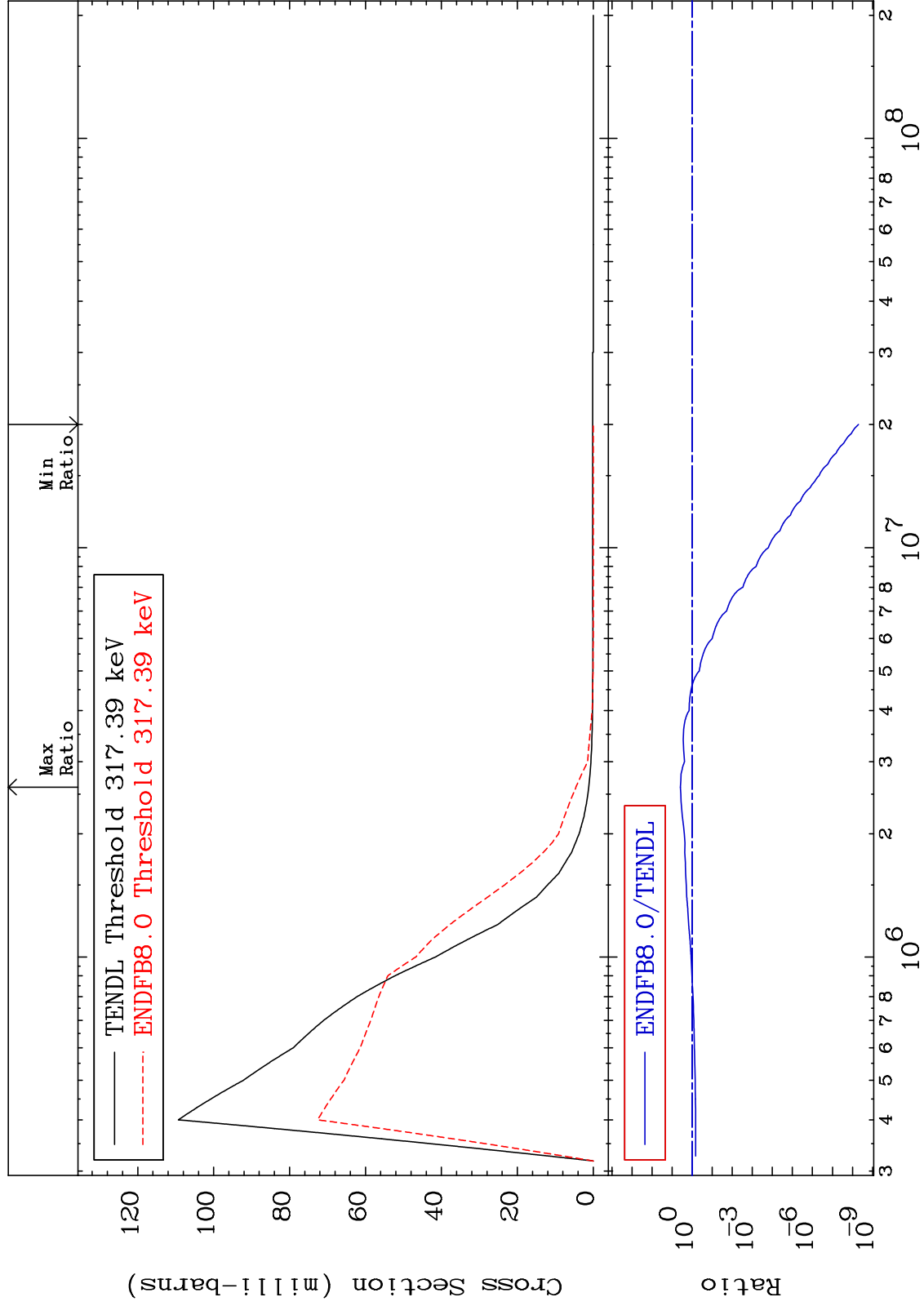
62-Sm-151
-100.0 To 86.20 %

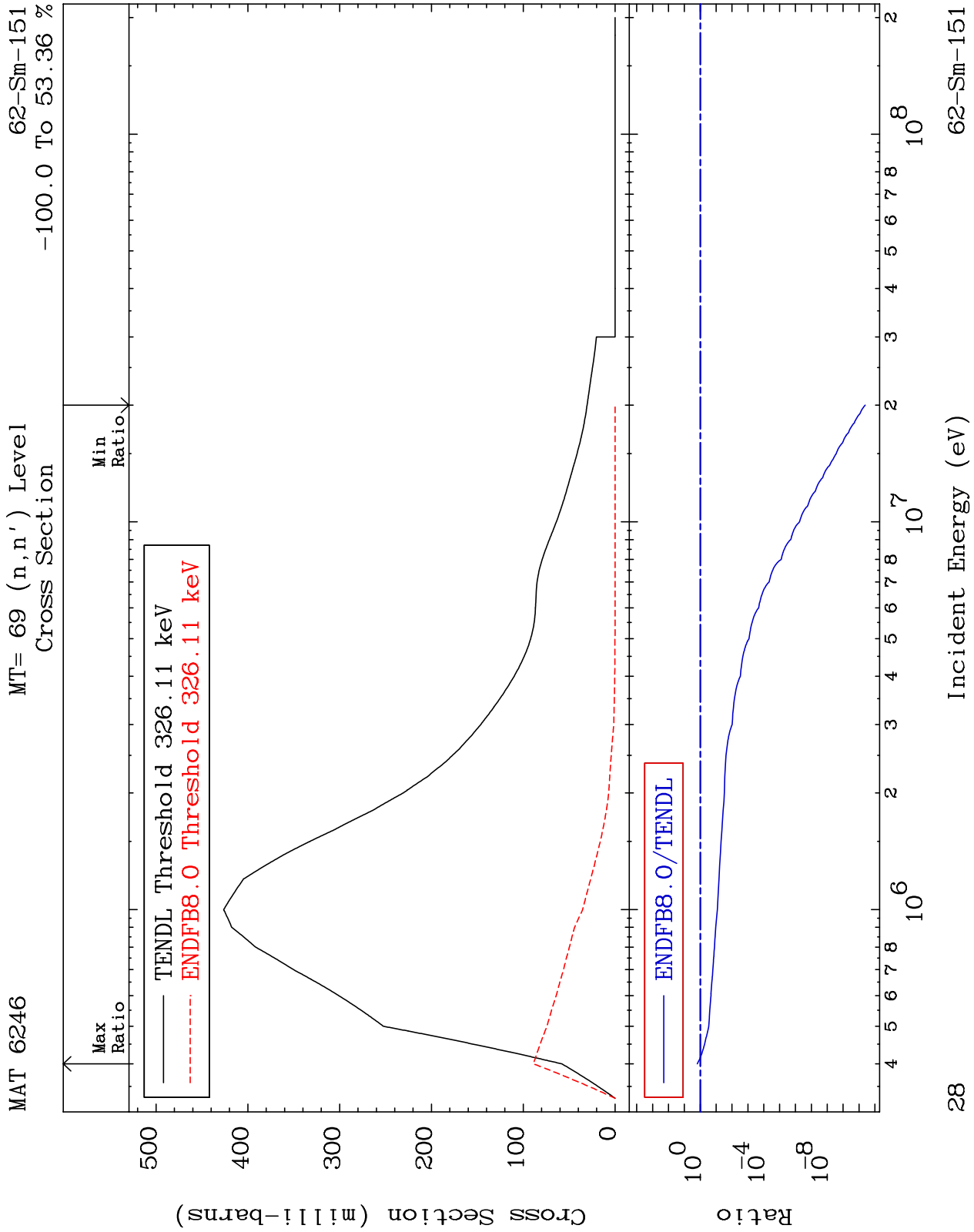


MAT 6246

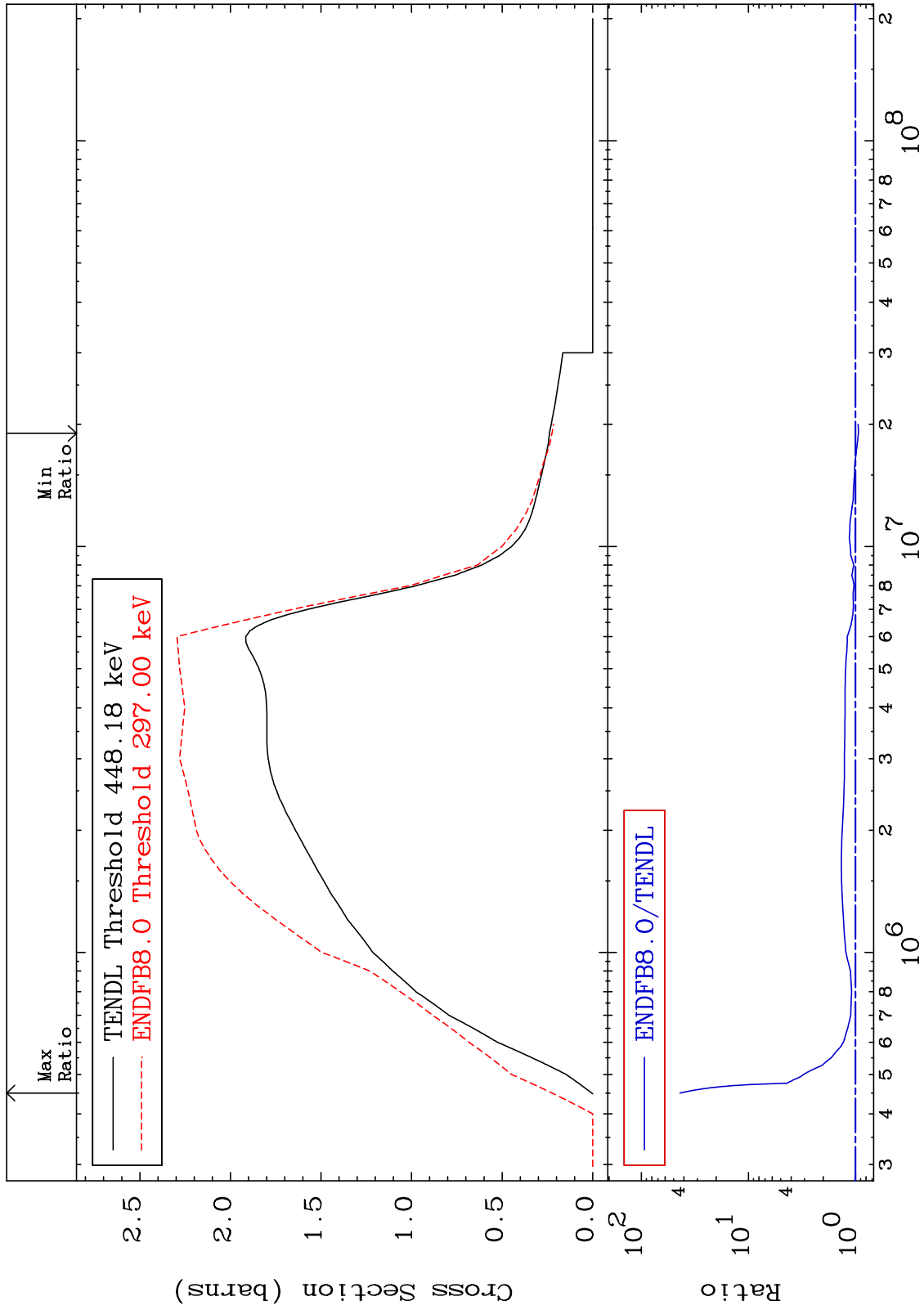
MT= 68 (n,n') Level
Cross Section

62-Sm-151
-100.0 To 283.0 %





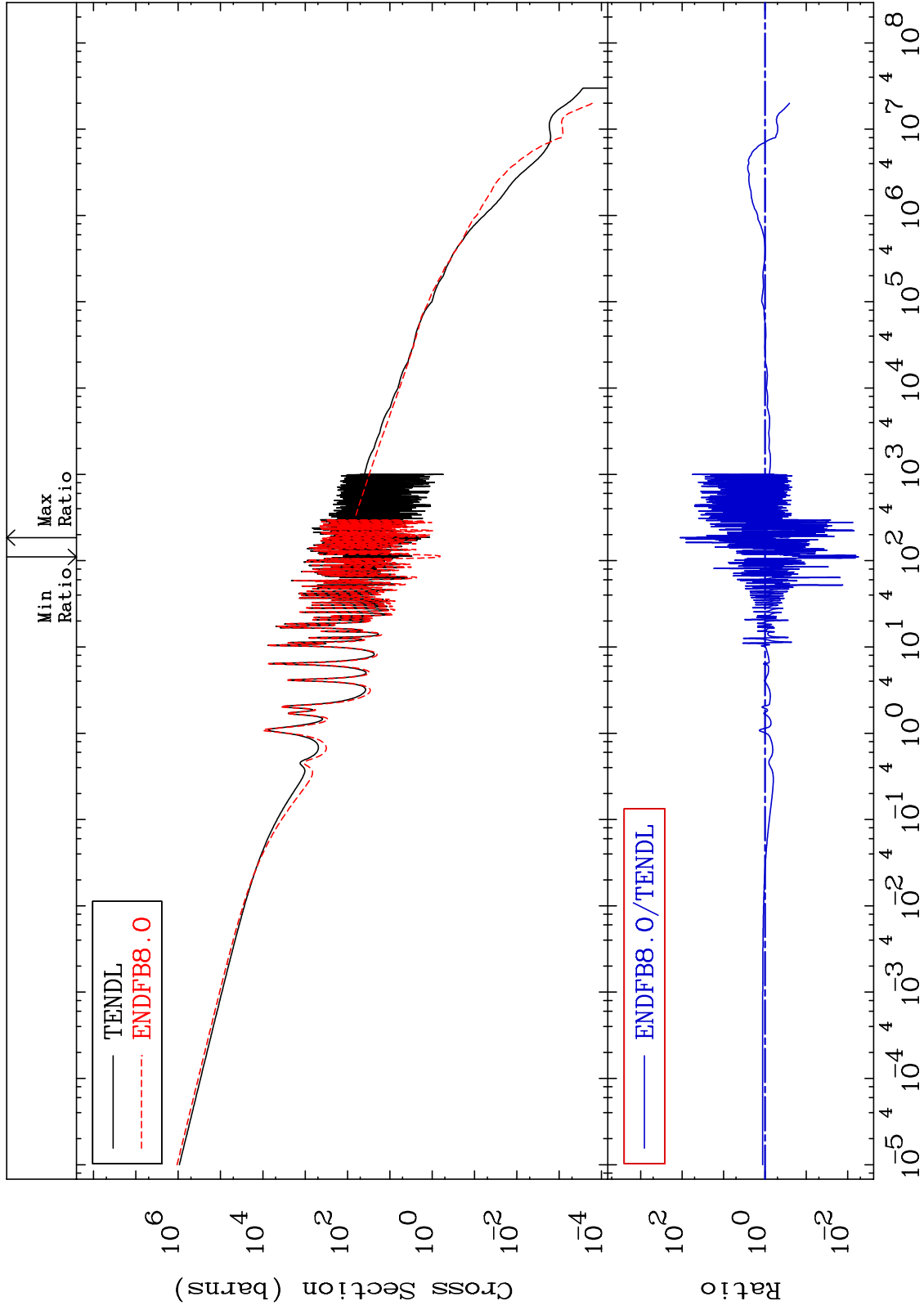
MAT 6246 (n,n') Continuum 62-Sm-151
 Cross Section -5.941 To 4256. %



MAT 6246

(n, γ)
Cross Section

62-Sm-151
-99.45 To 9999. %



30

Incident Energy (eV)

62-Sm-151

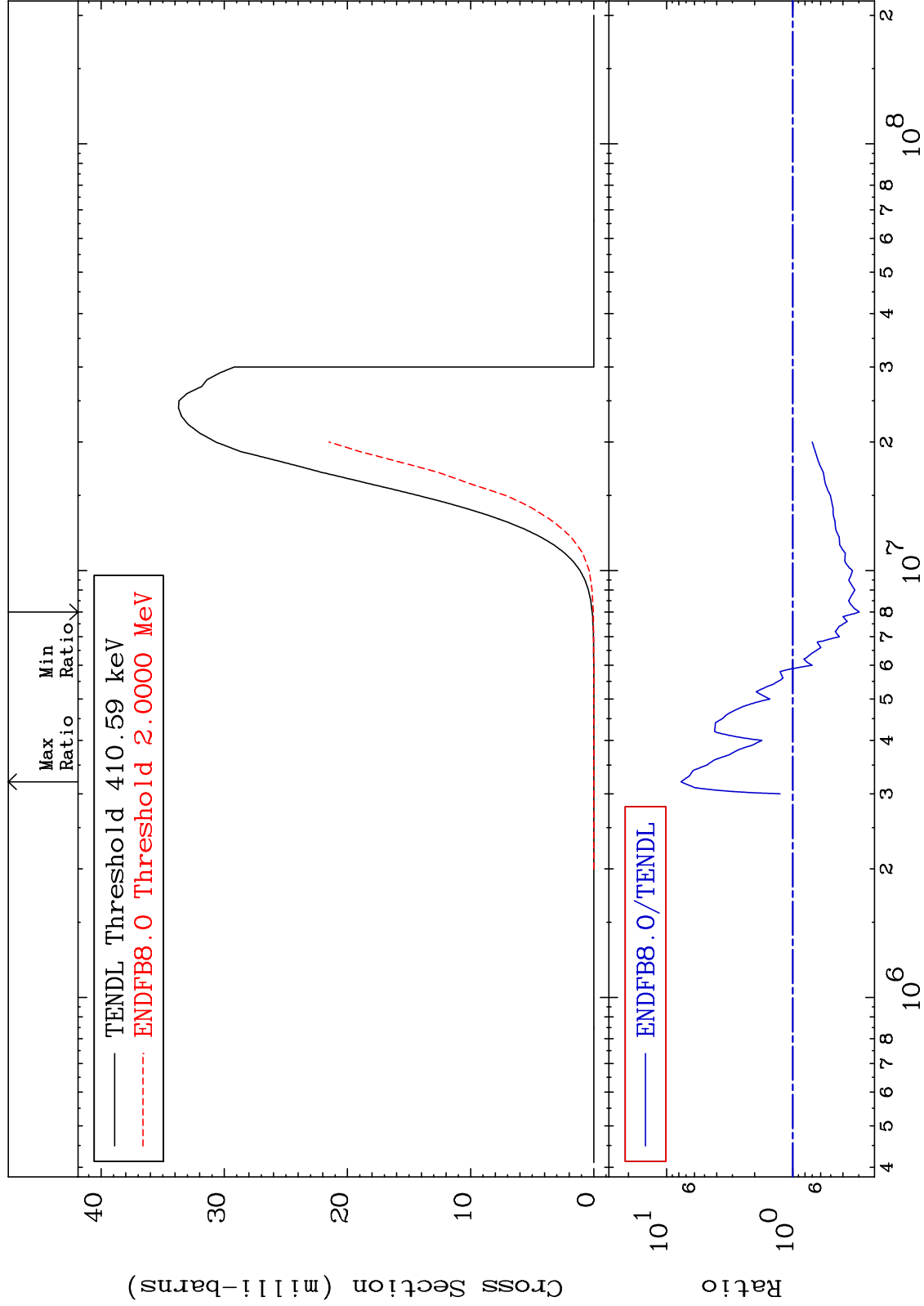
MAT 6246

(n, p)

62-Sm-151

Cross Section

-70.32 To 666.9 %



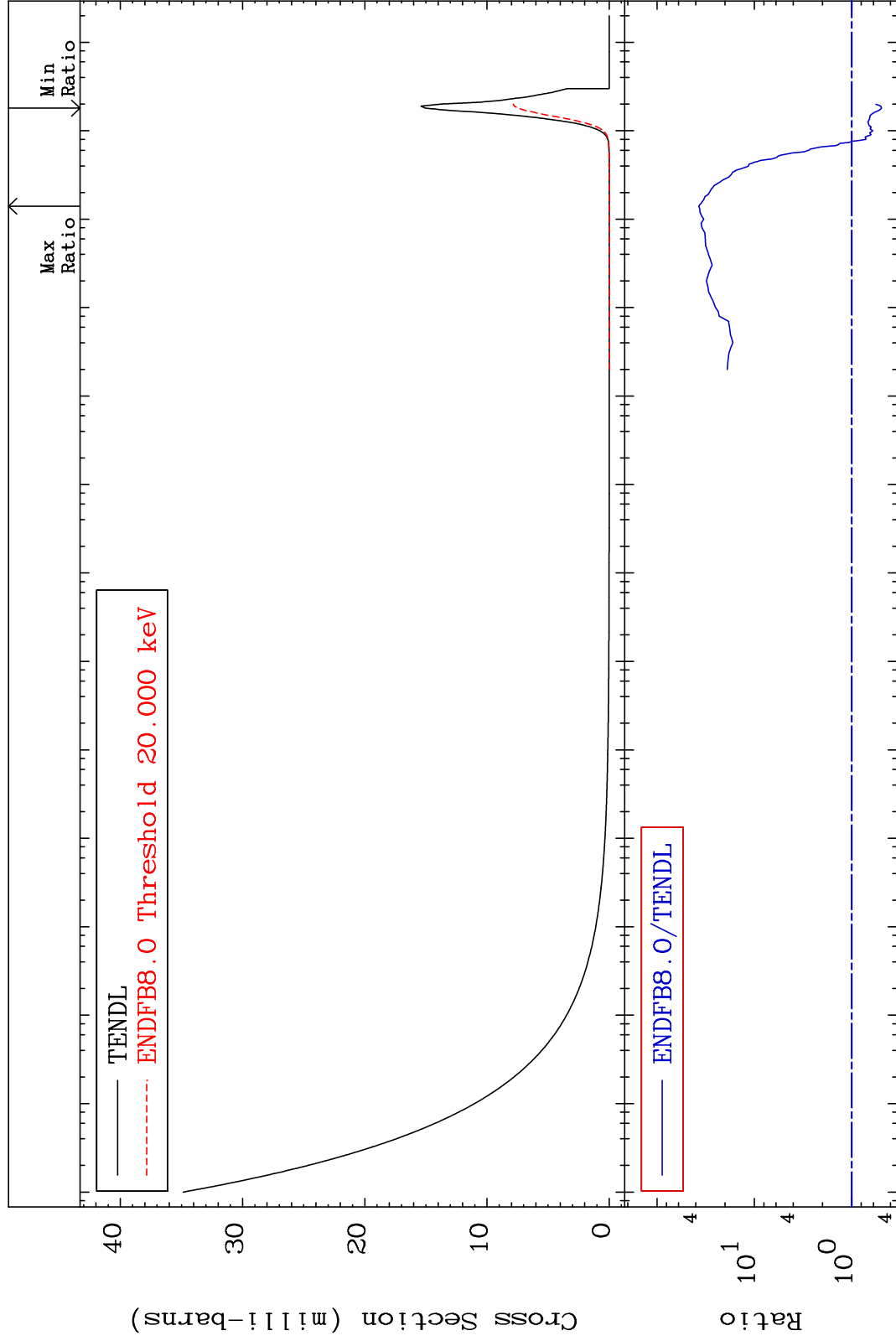
MAT 6246

(n, α)

62-Sm-151

Cross Section

-50.55 To 3631. %



32

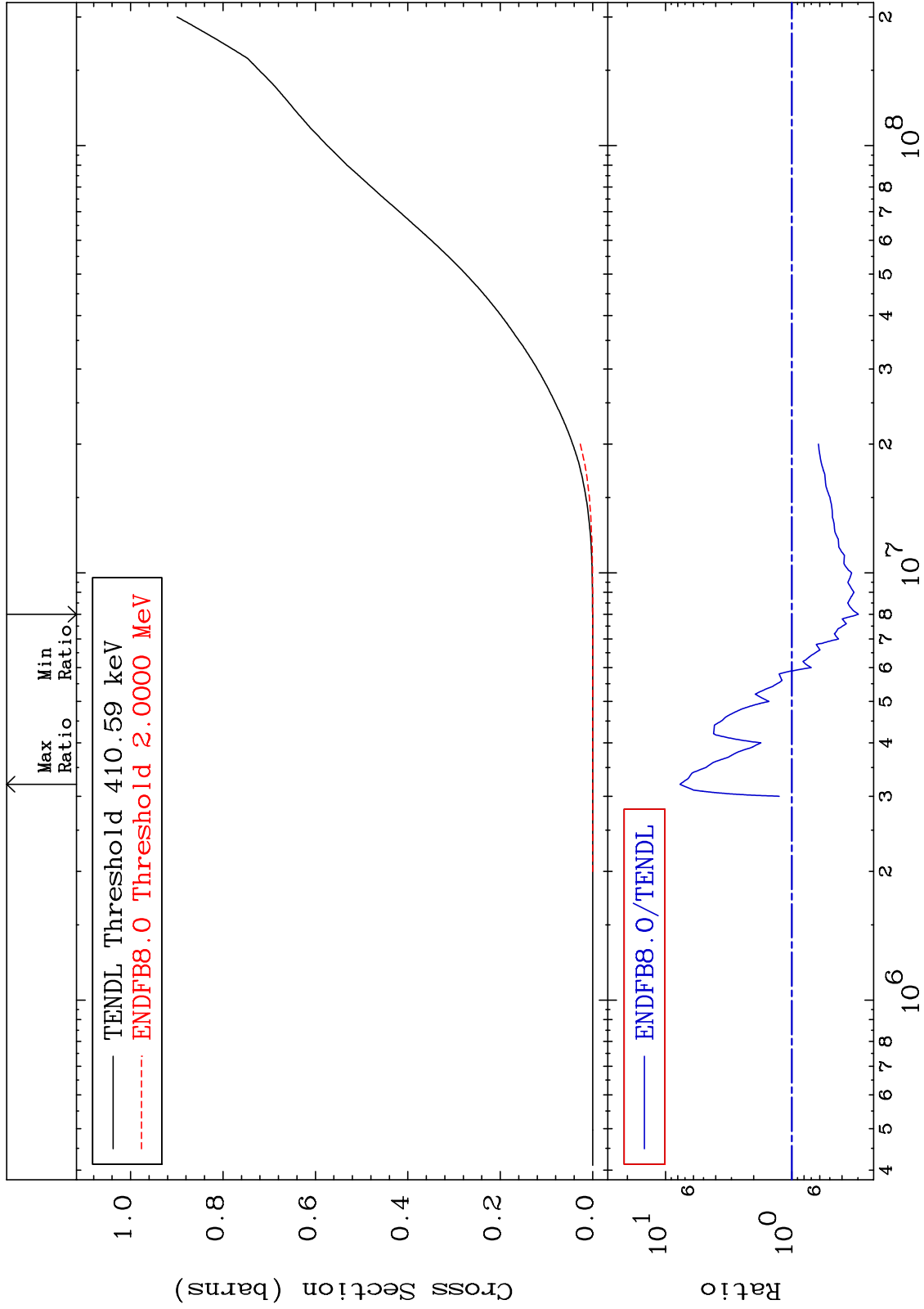
Incident Energy (eV)

62-Sm-151

MAT 6246

Hydrogen Production
Cross Section

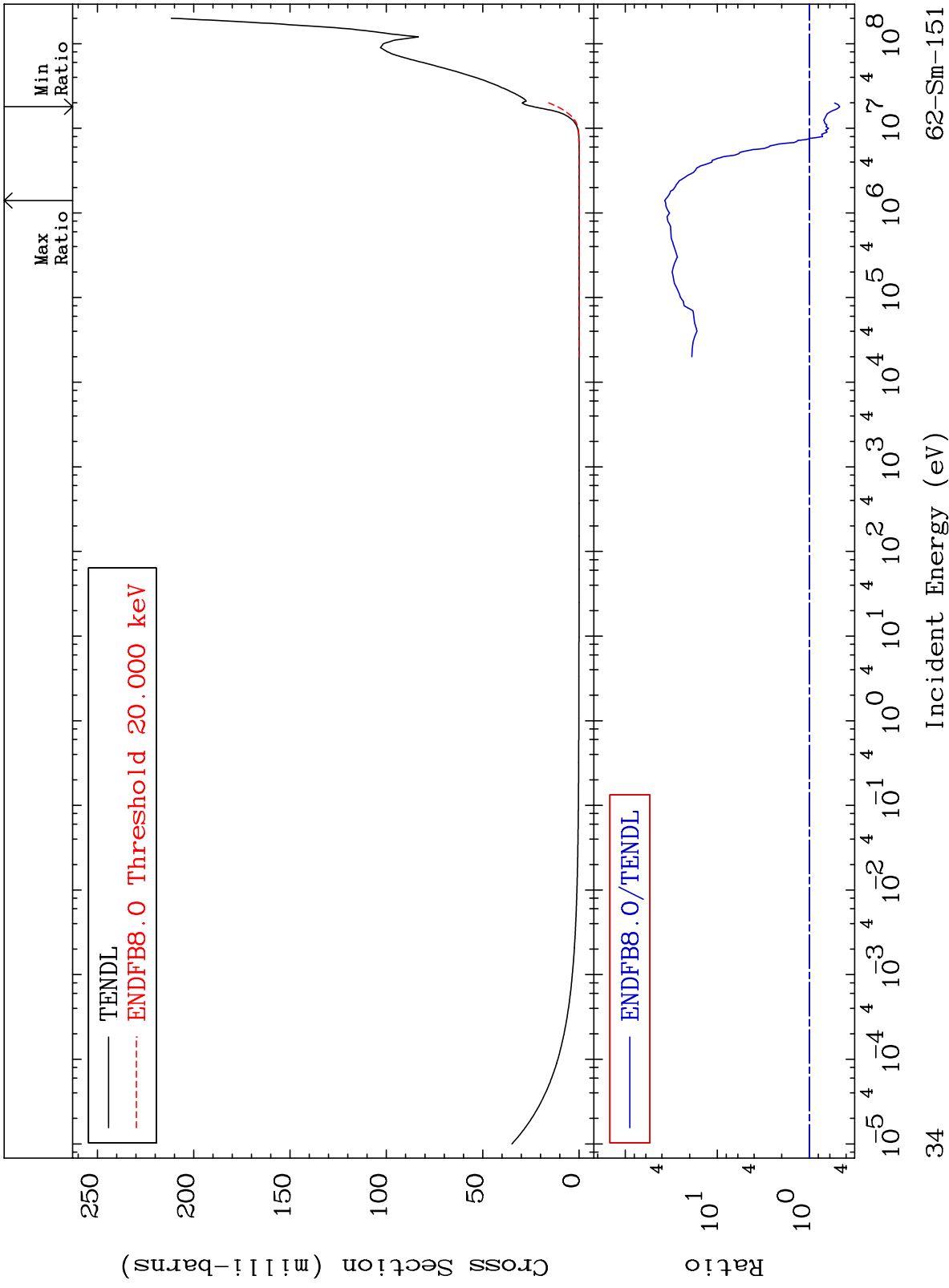
62-Sm-151
-70.32 To 666.9 %



MAT 6246

He-4 Production
Cross Section

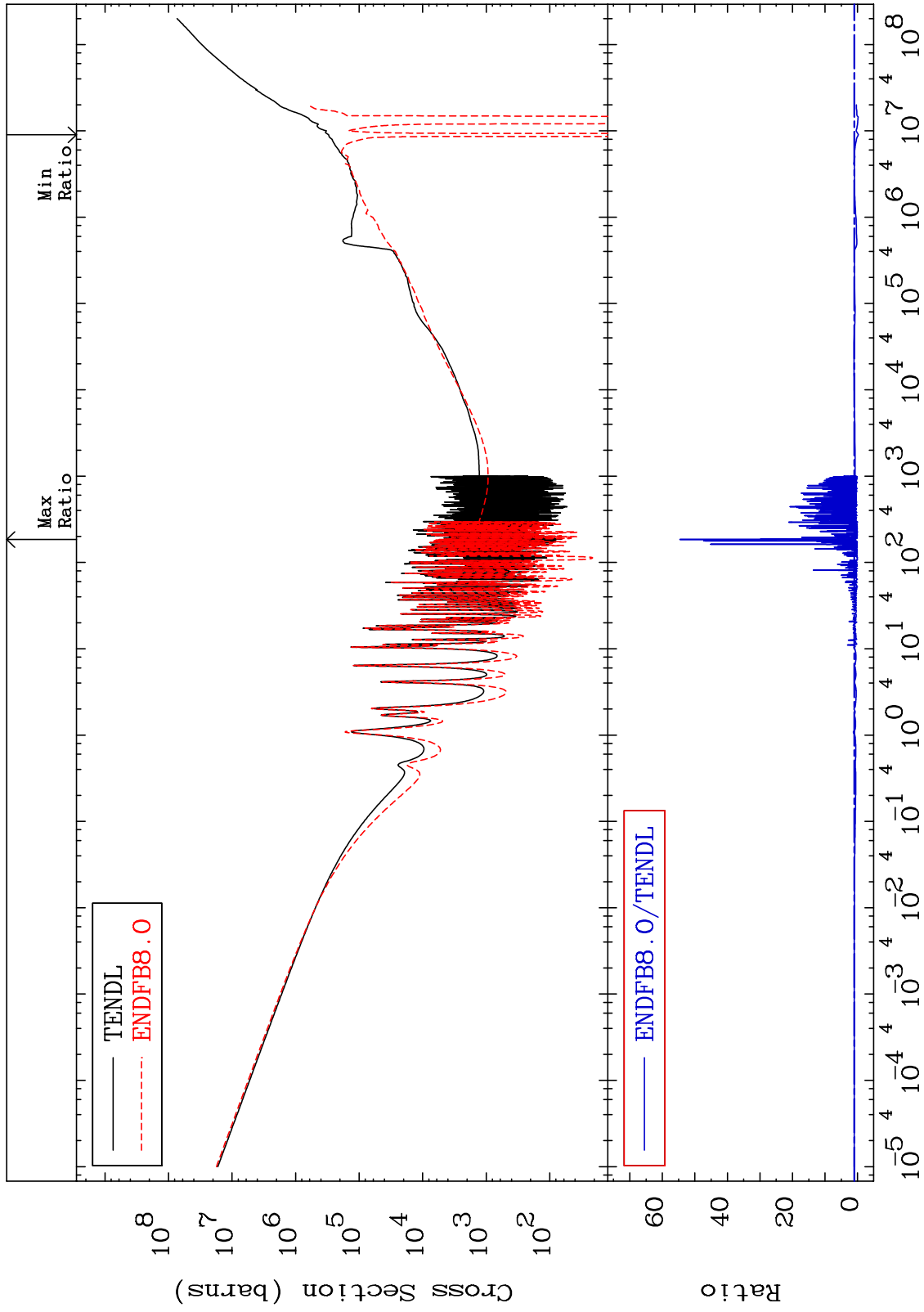
62-Sm-151
-53.16 To 3631. %



MAT 6246

Kerma total (eV-barns)
Cross Section

62-Sm-151
-125.9 To 5356. %



35

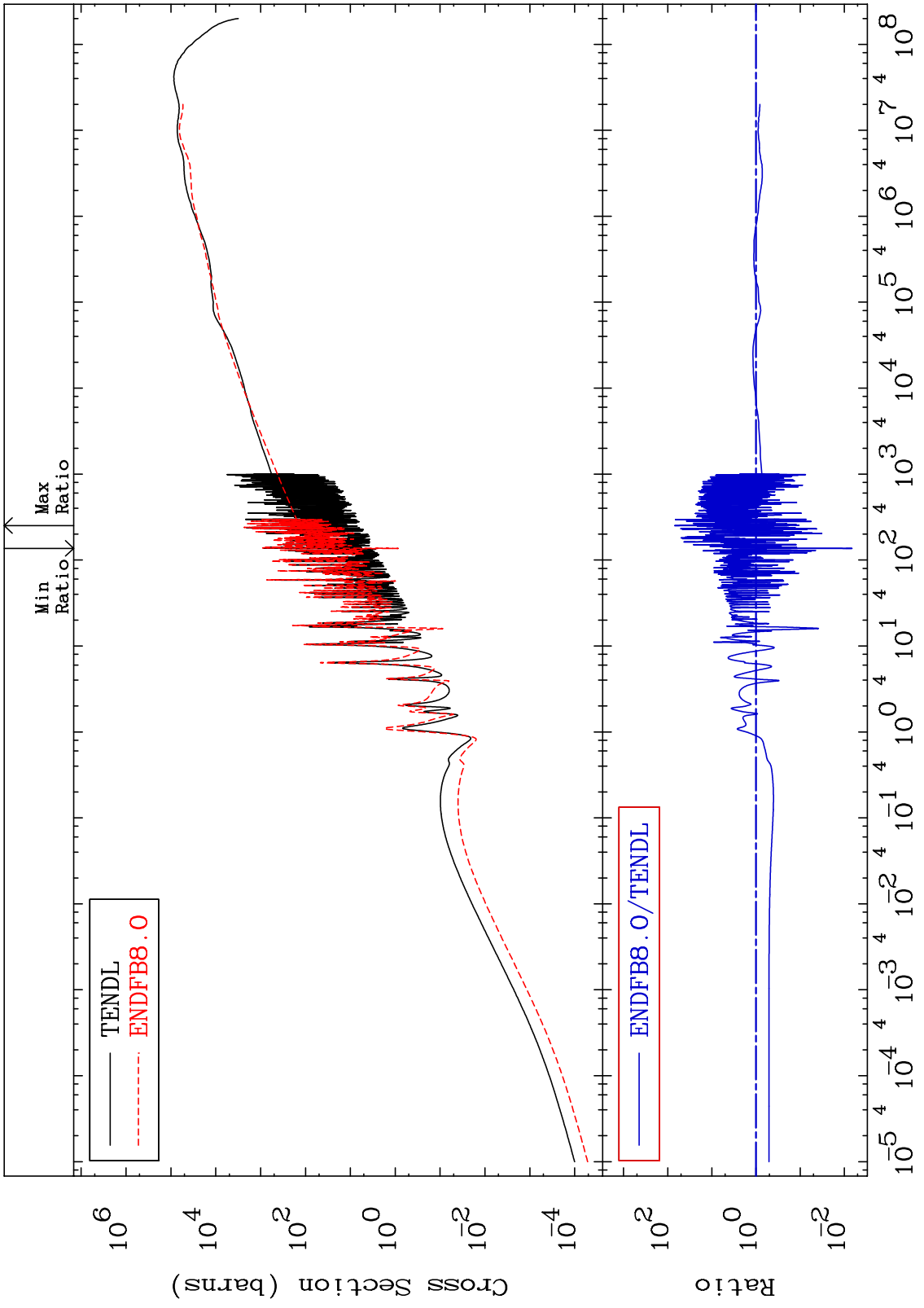
Incident Energy (eV)

62-Sm-151

MAT 6246

Kerma elastic
Cross Section

62-Sm-151
-99.34 To 6890. %



36

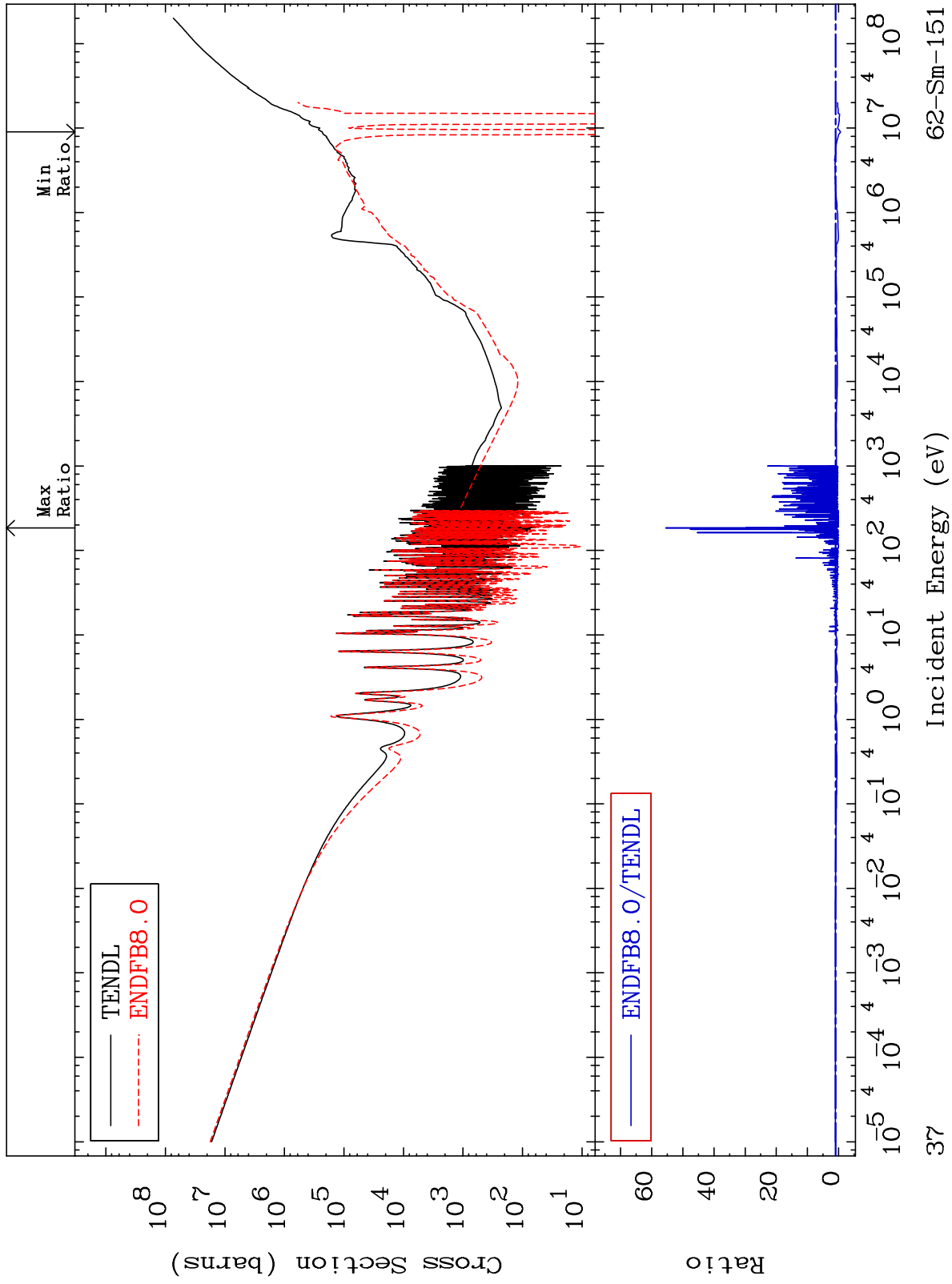
Incident Energy (eV)

62-Sm-151

MAT 6246

Kerma non-elastic (all but mt2)
Cross Section

62-Sm-151
-161.4 To 5444. %



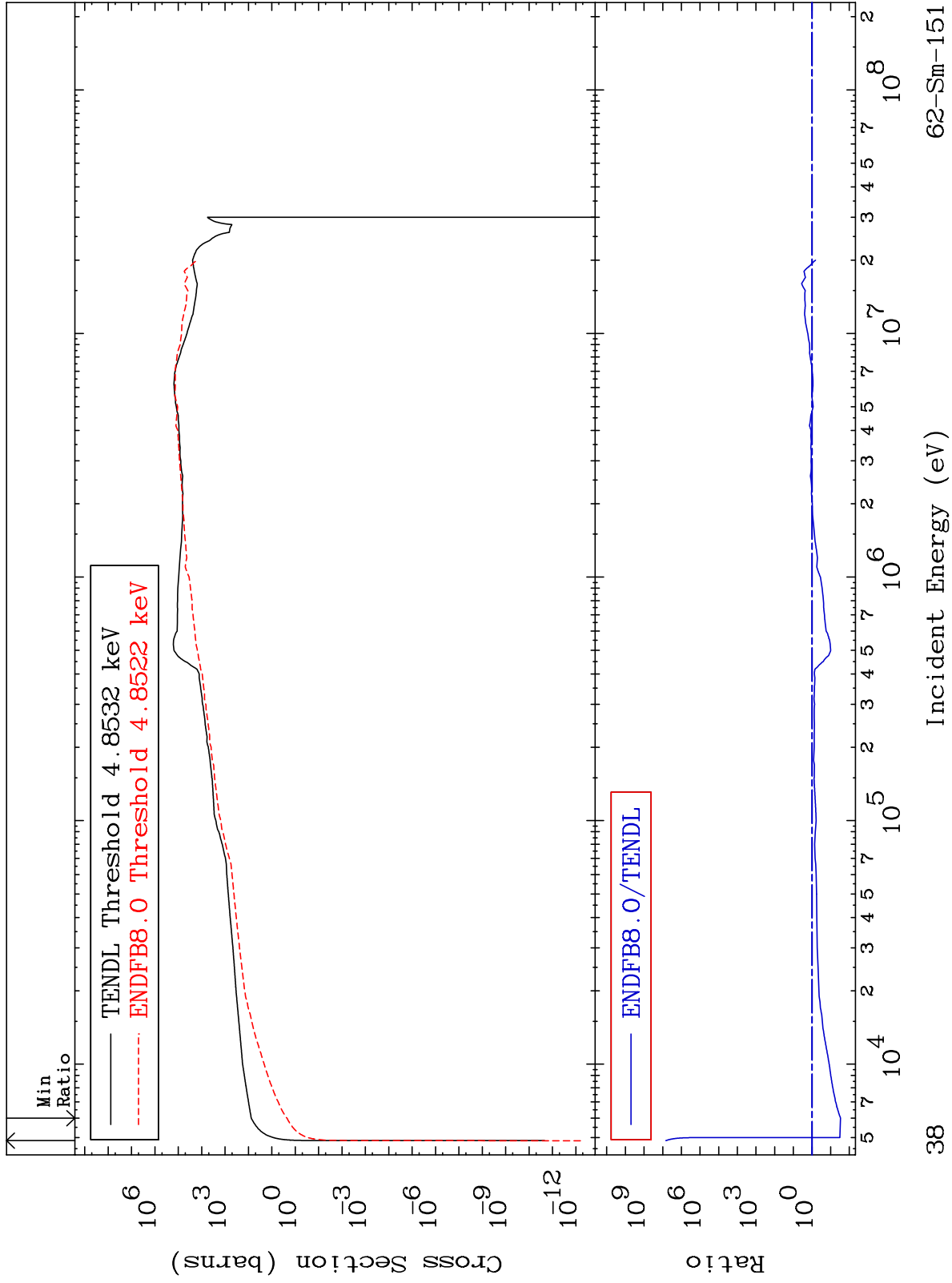
37

62-Sm-151

MAT 6246

Kerma inelastic (mt51-91)
Cross Section

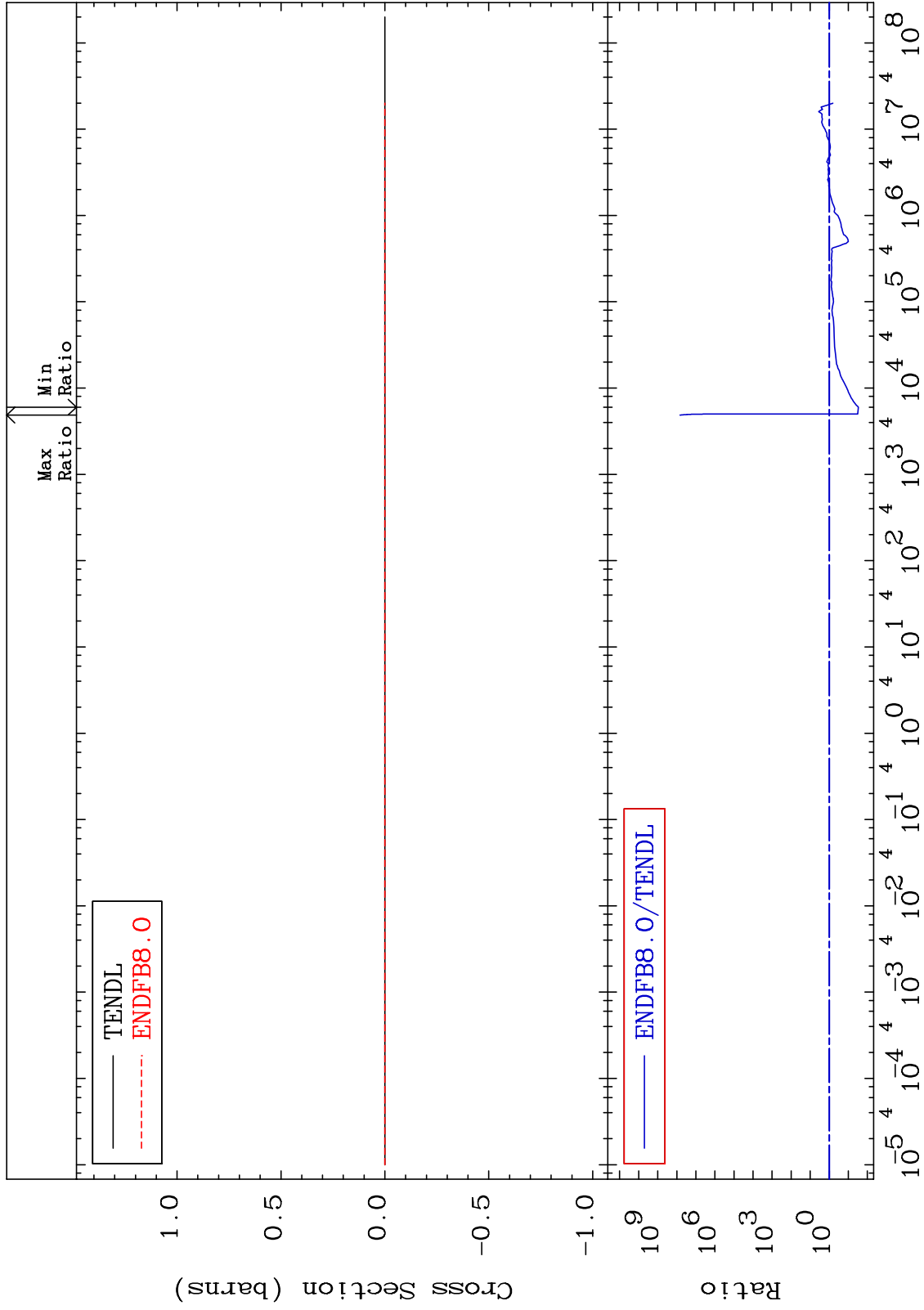
62-Sm-151
-97.04 To 9999. %



MAT 6246

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

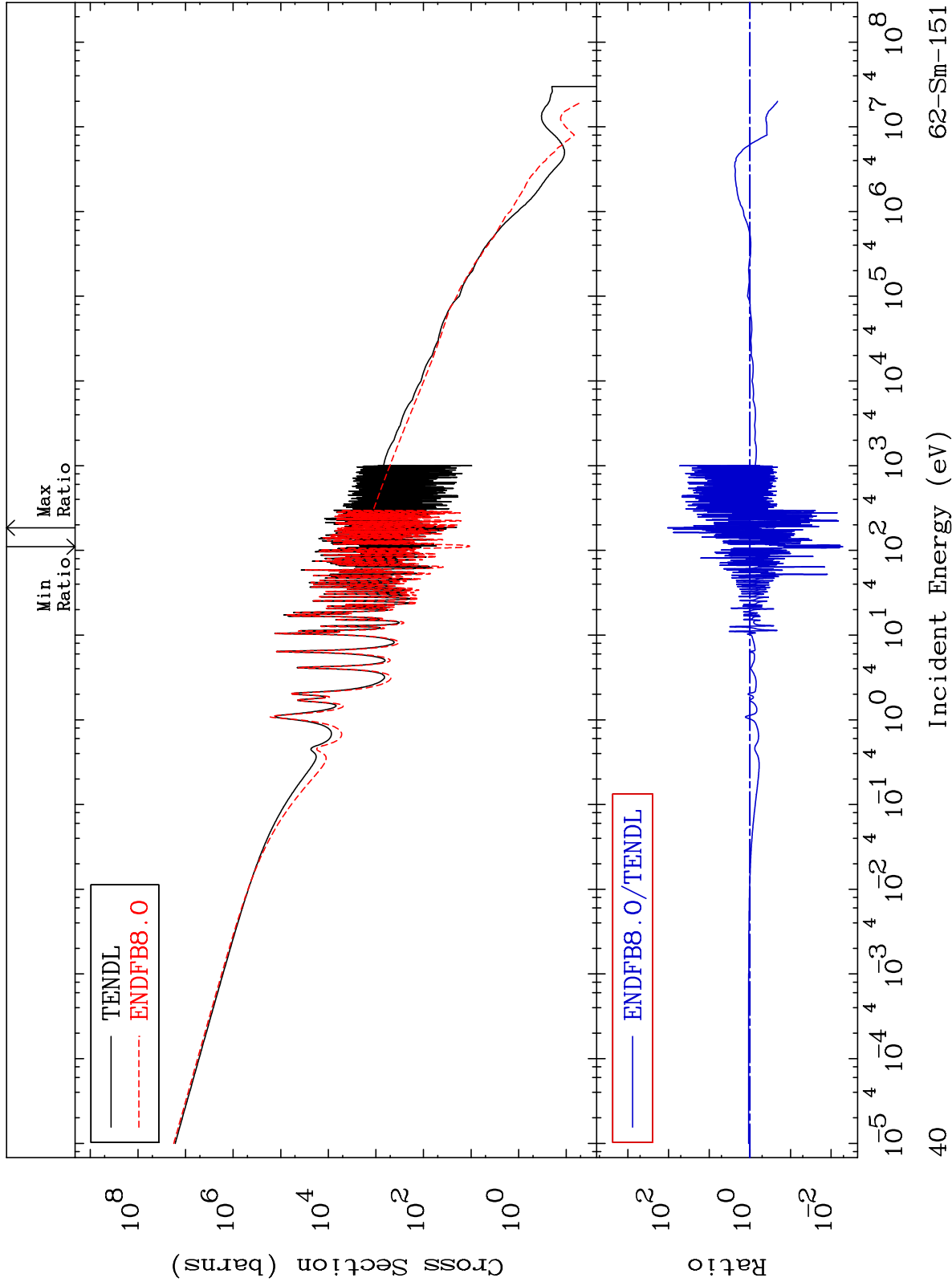
62-Sm-151
-97.04 To 9999. %



MAT 6246

Kerma capture (mt102)
Cross Section

62-Sm-151
-99.48 To 9999. %



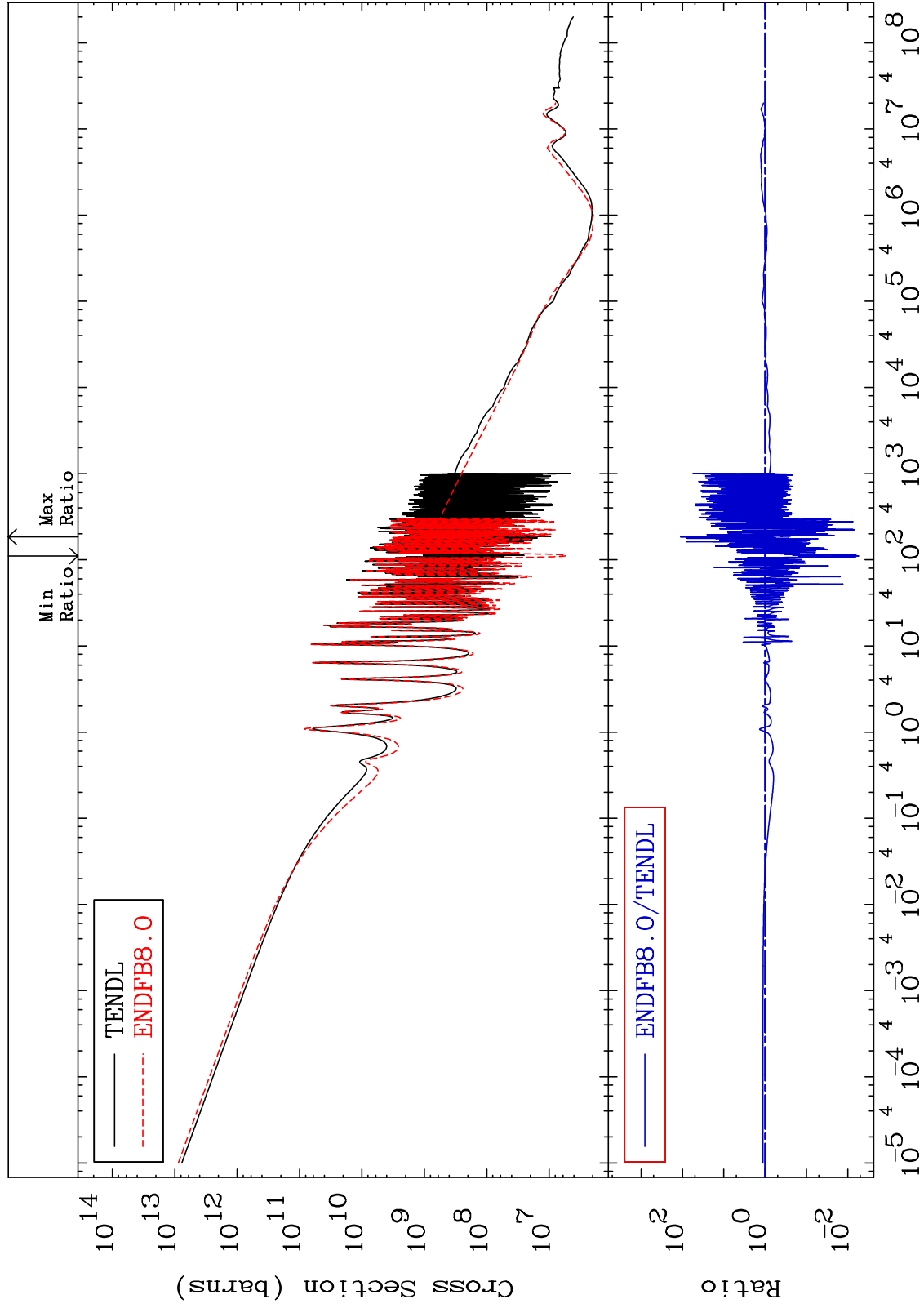
40

62-Sm-151

MAT 6246

Total photon (eV-barns)
Cross Section

62-Sm-151
-99.45 To 9999. %



41

Incident Energy (eV)

62-Sm-151

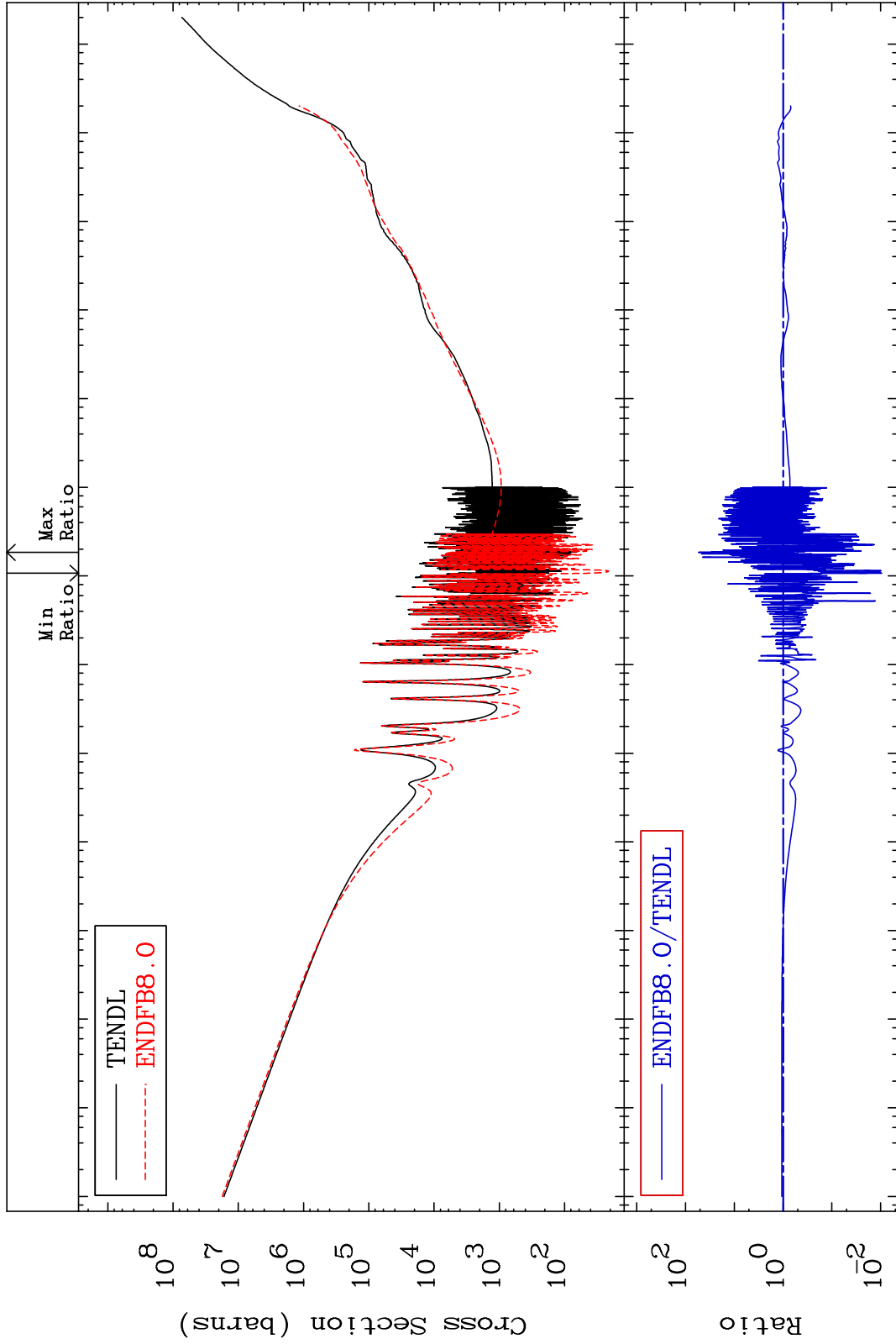
MAT 6246

Total kinematic kerma (high limit)

62-Sm-151

-99.04 To 5342. %

Cross Section



— TENDL
- - - ENDFB8.0

— ENDFB8.0/TENDL

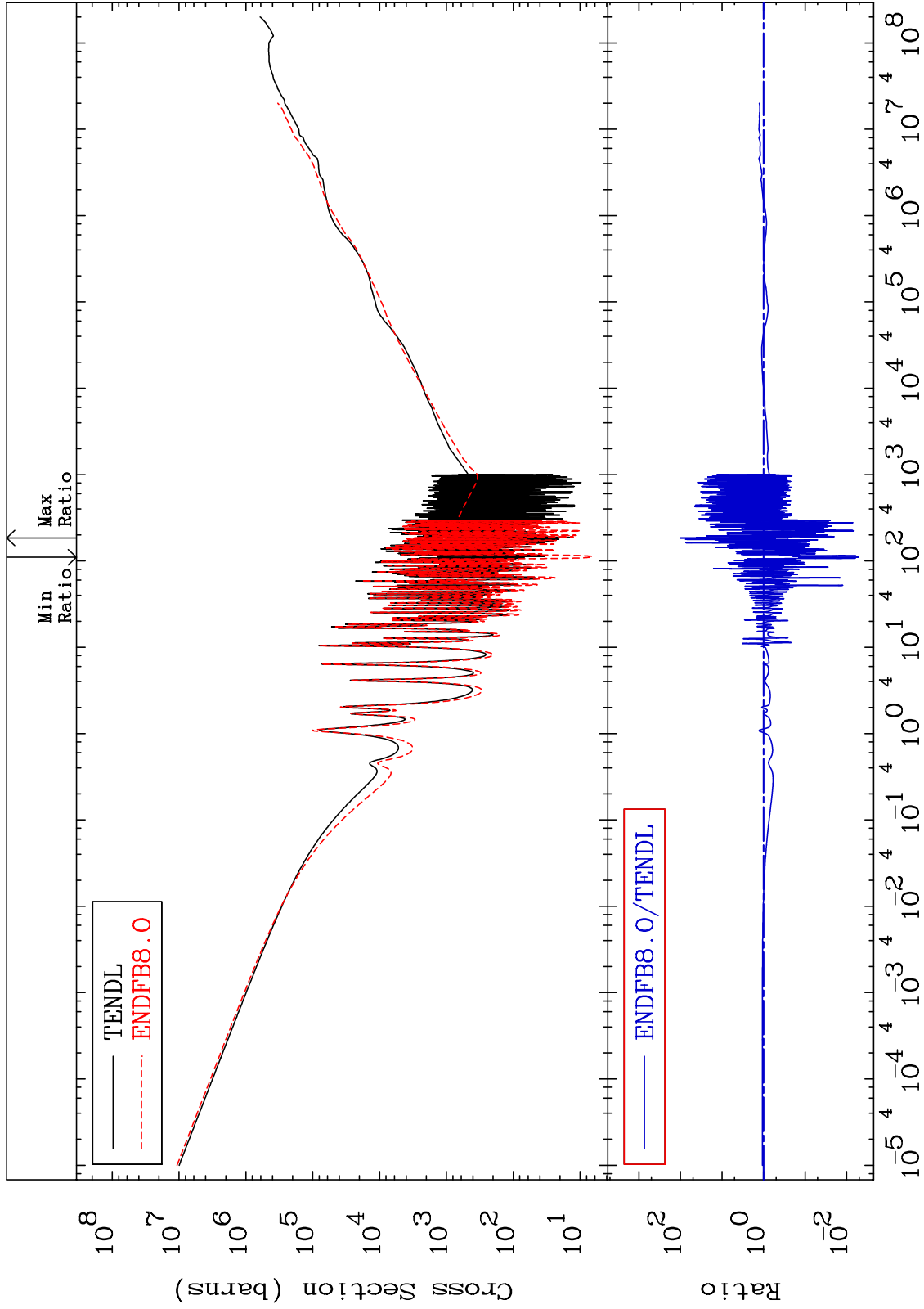
MAT 6246

Dpa total (eV-barns)

62-Sm-151

-99.48 To 9999. %

Cross Section



43

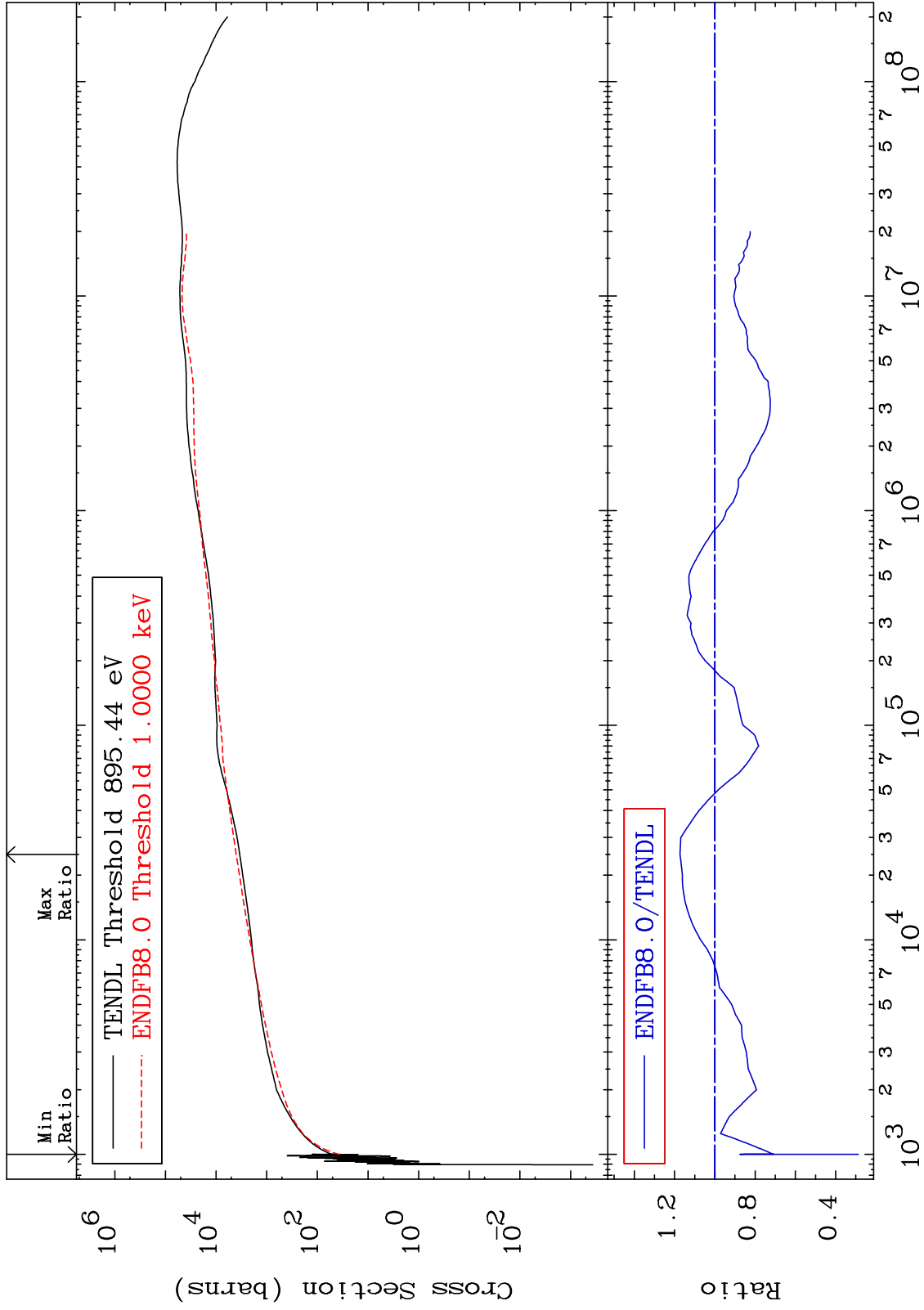
Incident Energy (eV)

62-Sm-151

MAT 6246

Dpa elastic (mt2)
Cross Section

62-Sm-151
-71.29 To 17.31 %



44

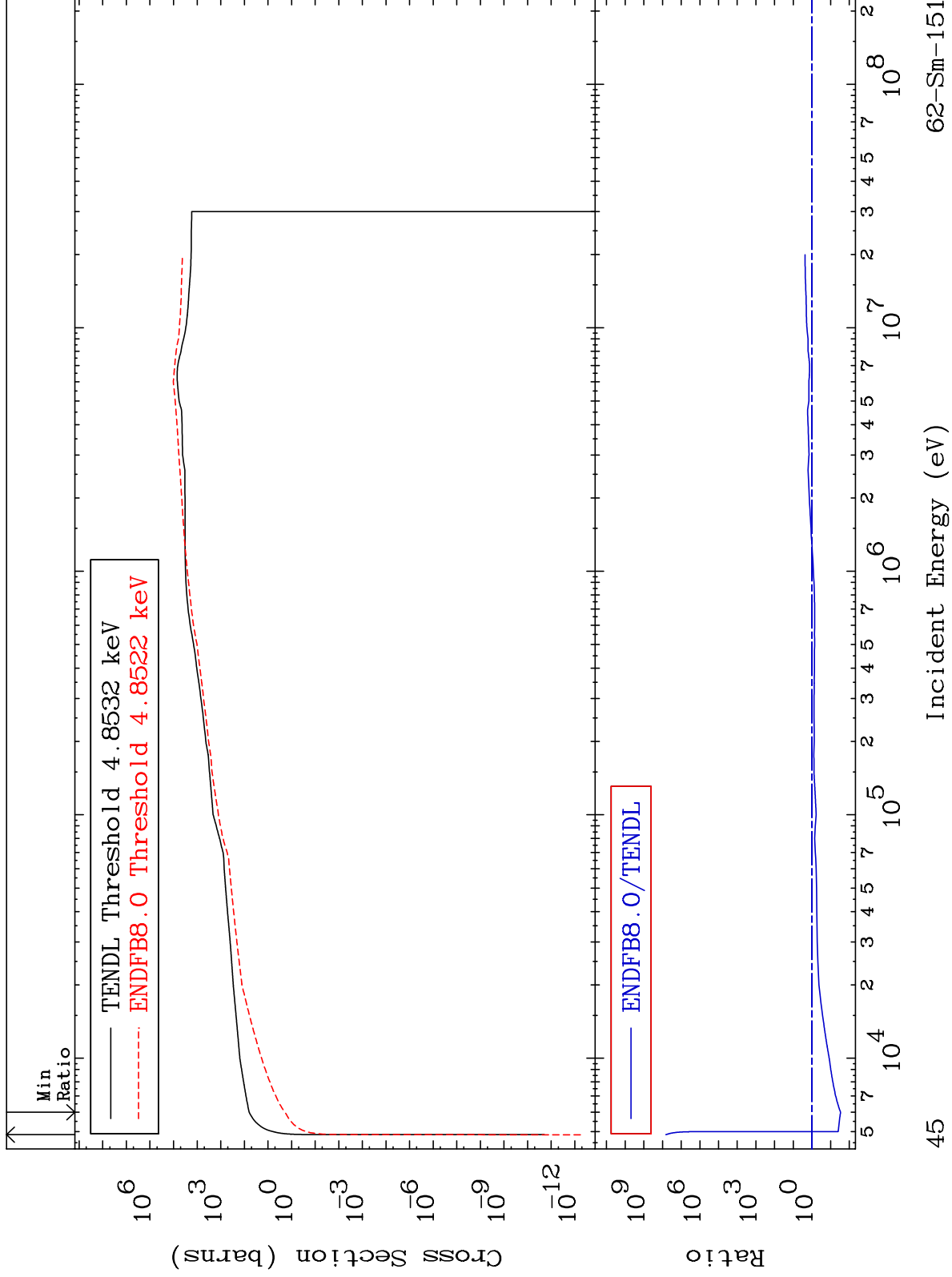
Incident Energy (eV)

62-Sm-151

MAT 6246

Dpa inelastic (mt51-91)
Cross Section

62-Sm-151
-97.04 To 9999. %



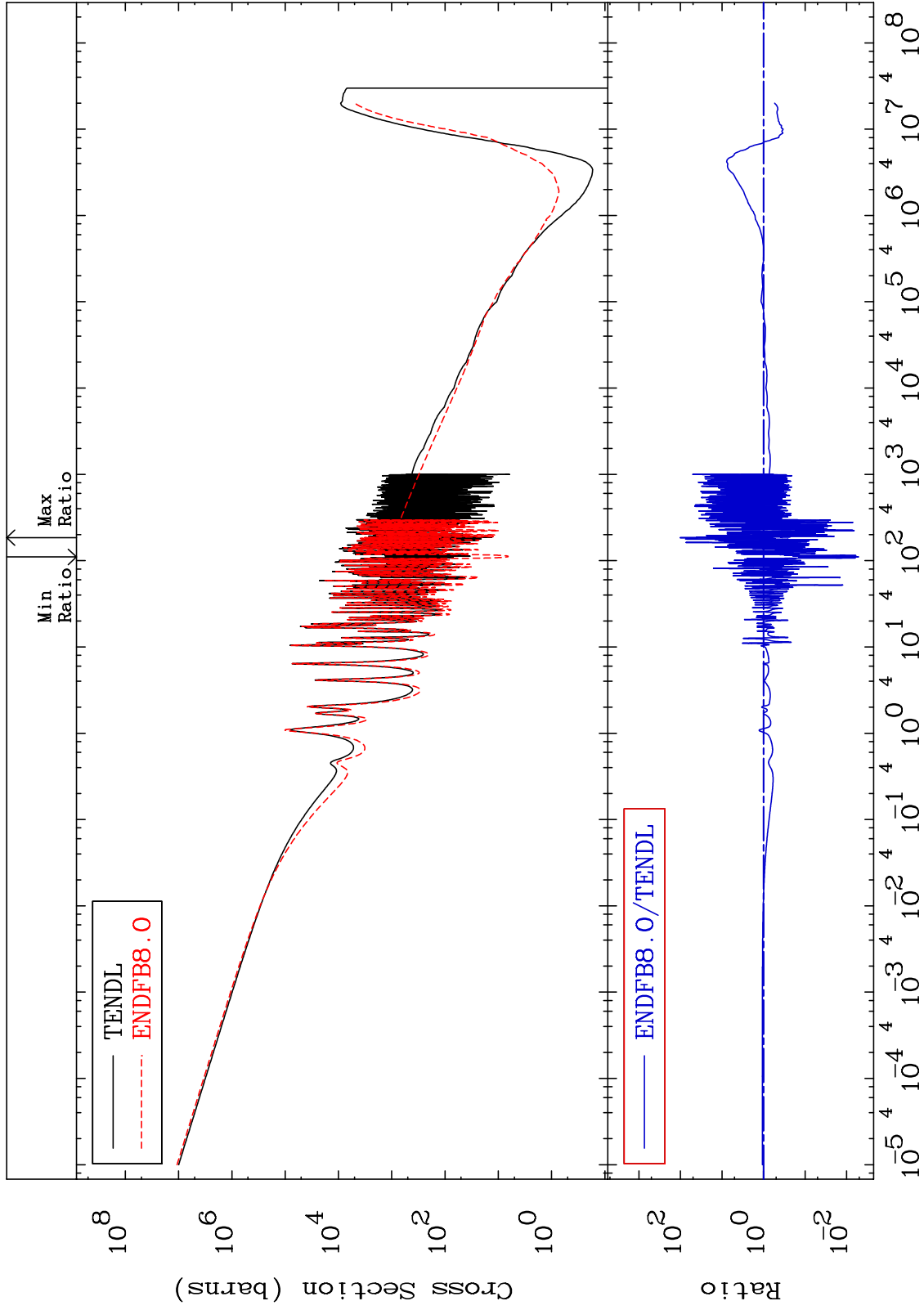
MAT 6246

Dpa disappearance (mt102 -120)

62-Sm-151

-99.48 To 9999. %

Cross Section



46

Incident Energy (eV)

62-Sm-151