

Program Complot
(Version 2018-1)

by

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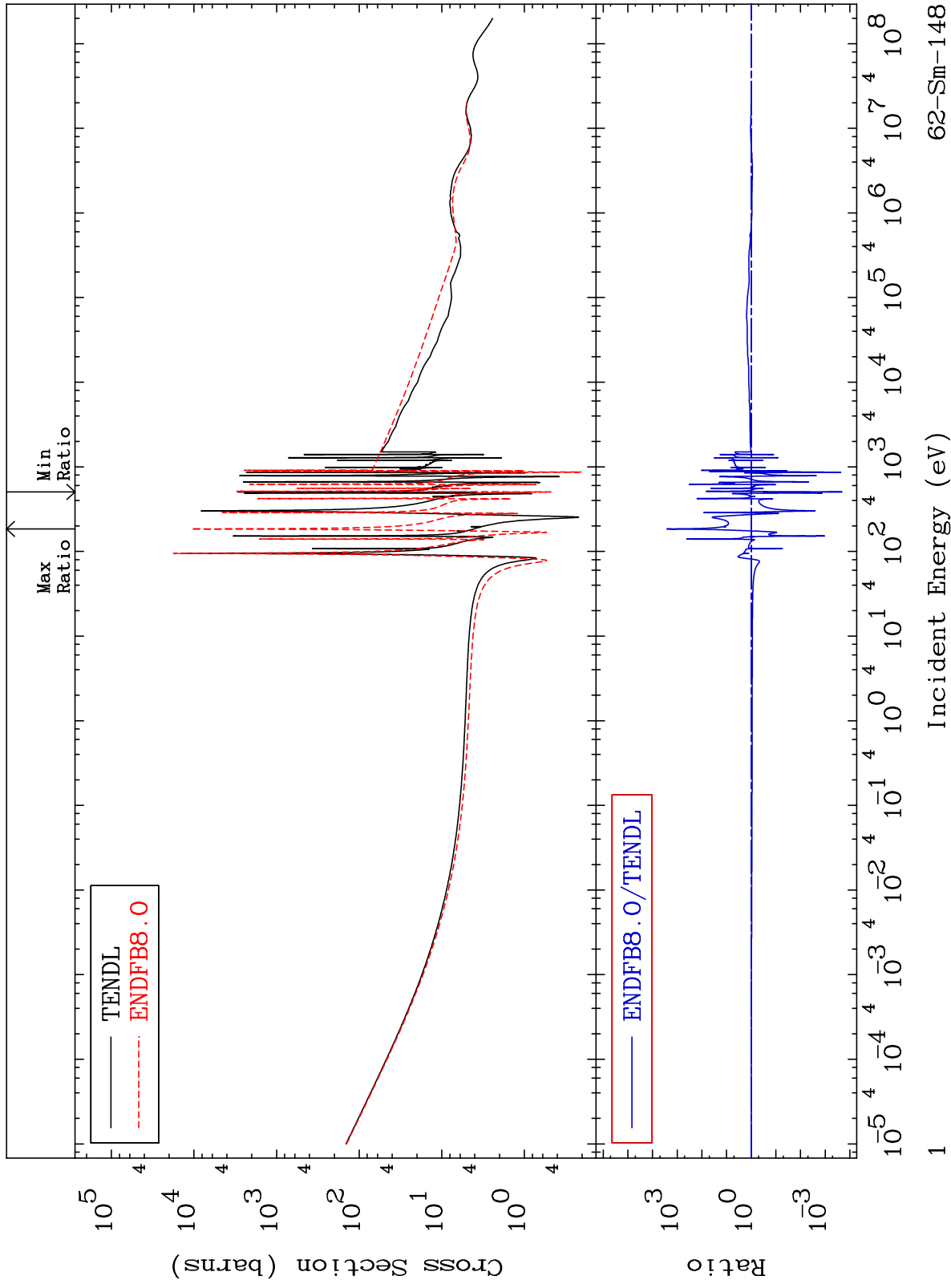
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6237

Total
Cross Section

62-Sm-148
-99.98 To 9999. %



62-Sm-148

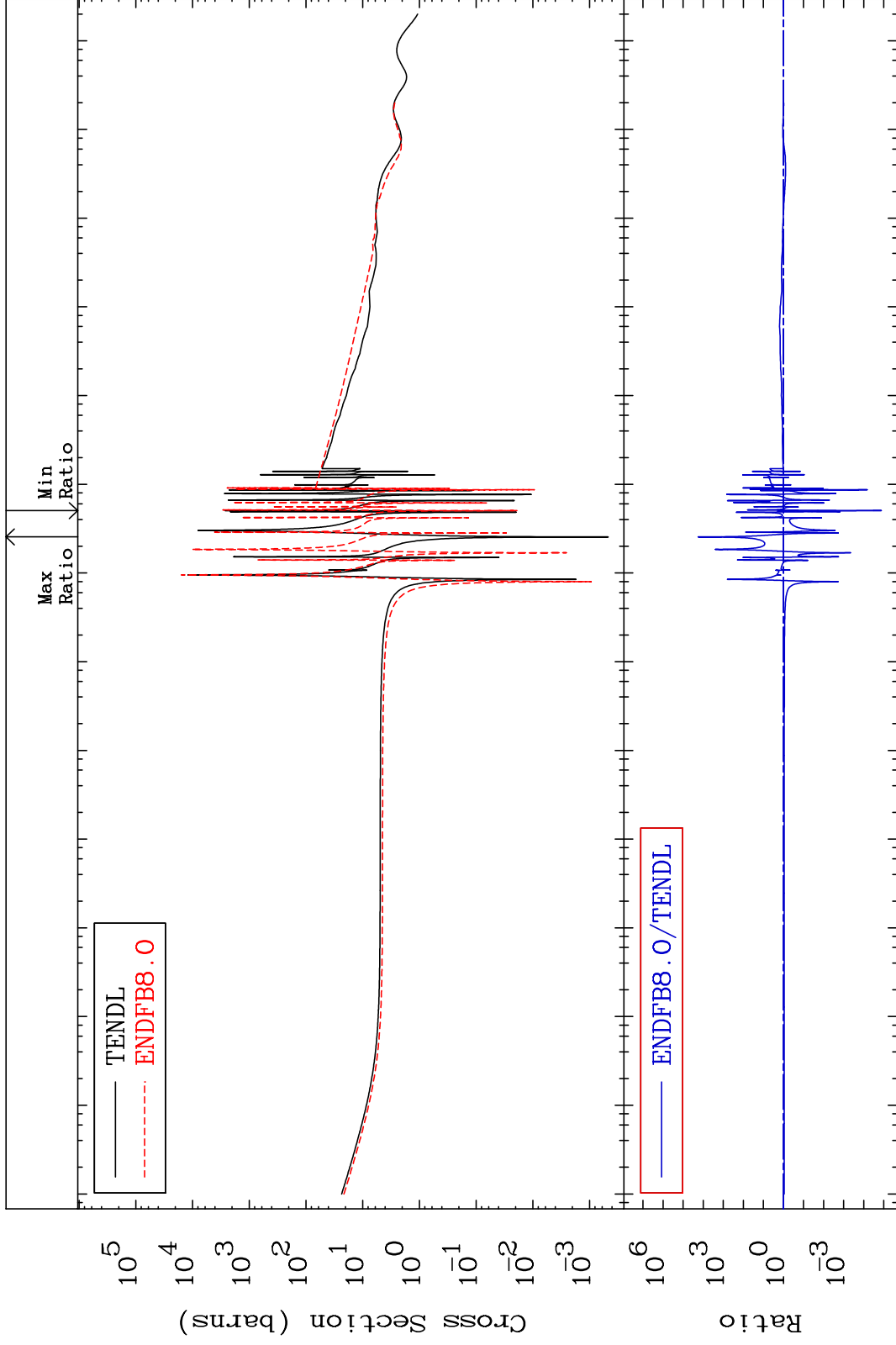
MAT 6237

Elastic

62-Sm-148

Cross Section

-100.0 To 9999. %

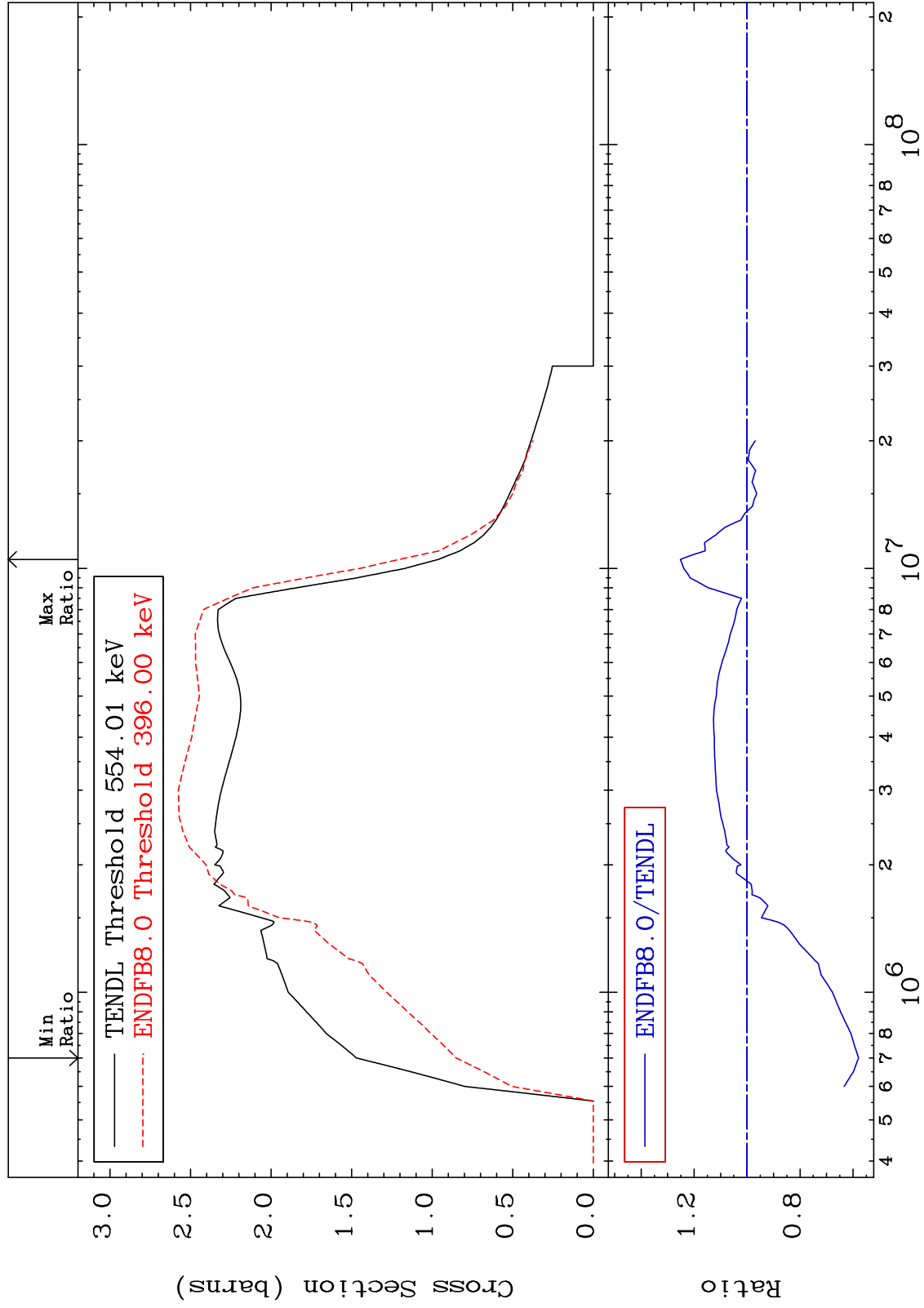


62-Sm-148

Incident Energy (eV)

MAT 6237

Inelastic Cross Section
62-Sm-148
-42.09 To 25.15 %



3 62-Sm-148

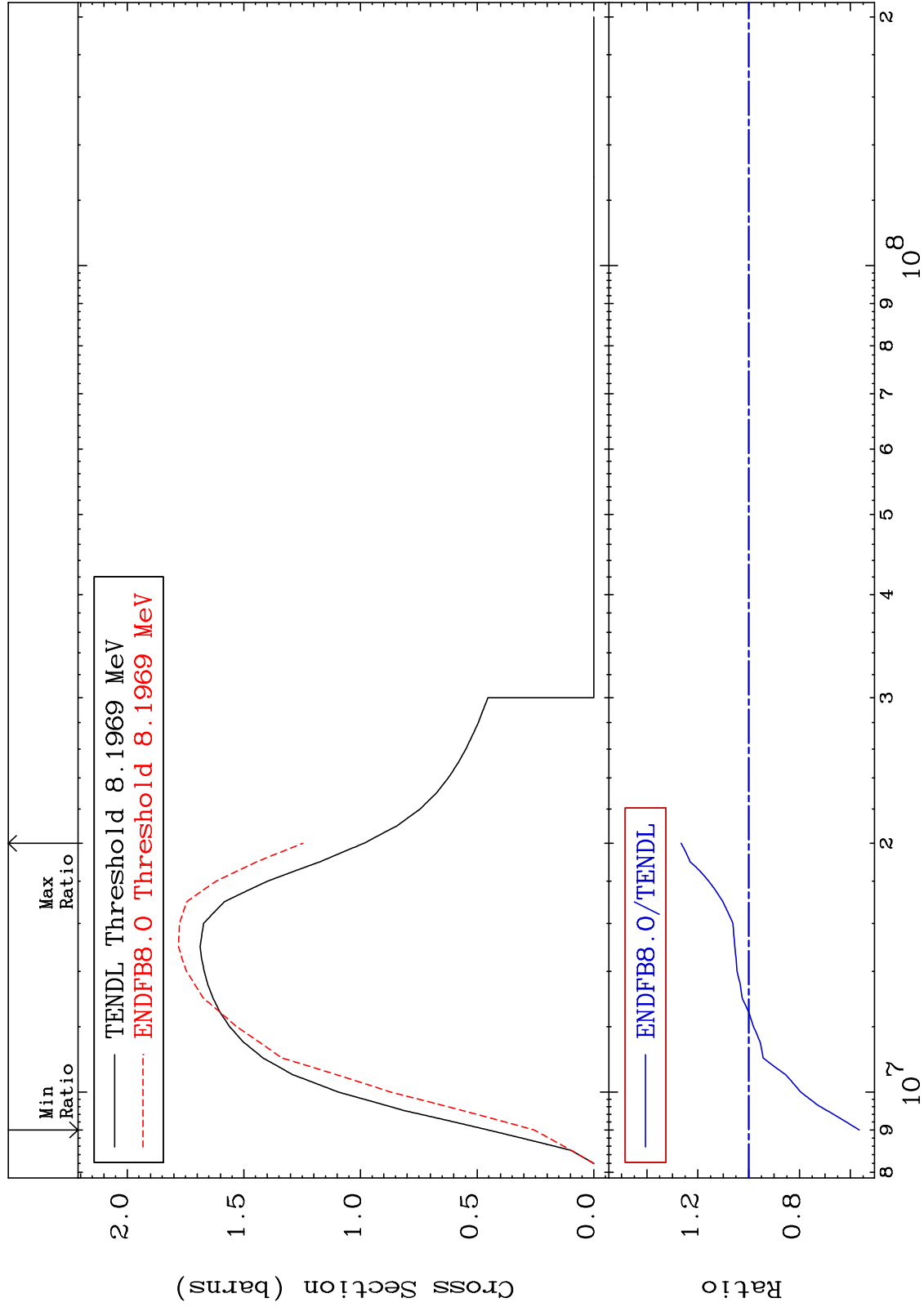
MAT 6237

(n,2n)

62-Sm-148

Cross Section

-43.50 To 26.61 %



4

Incident Energy (eV)

62-Sm-148

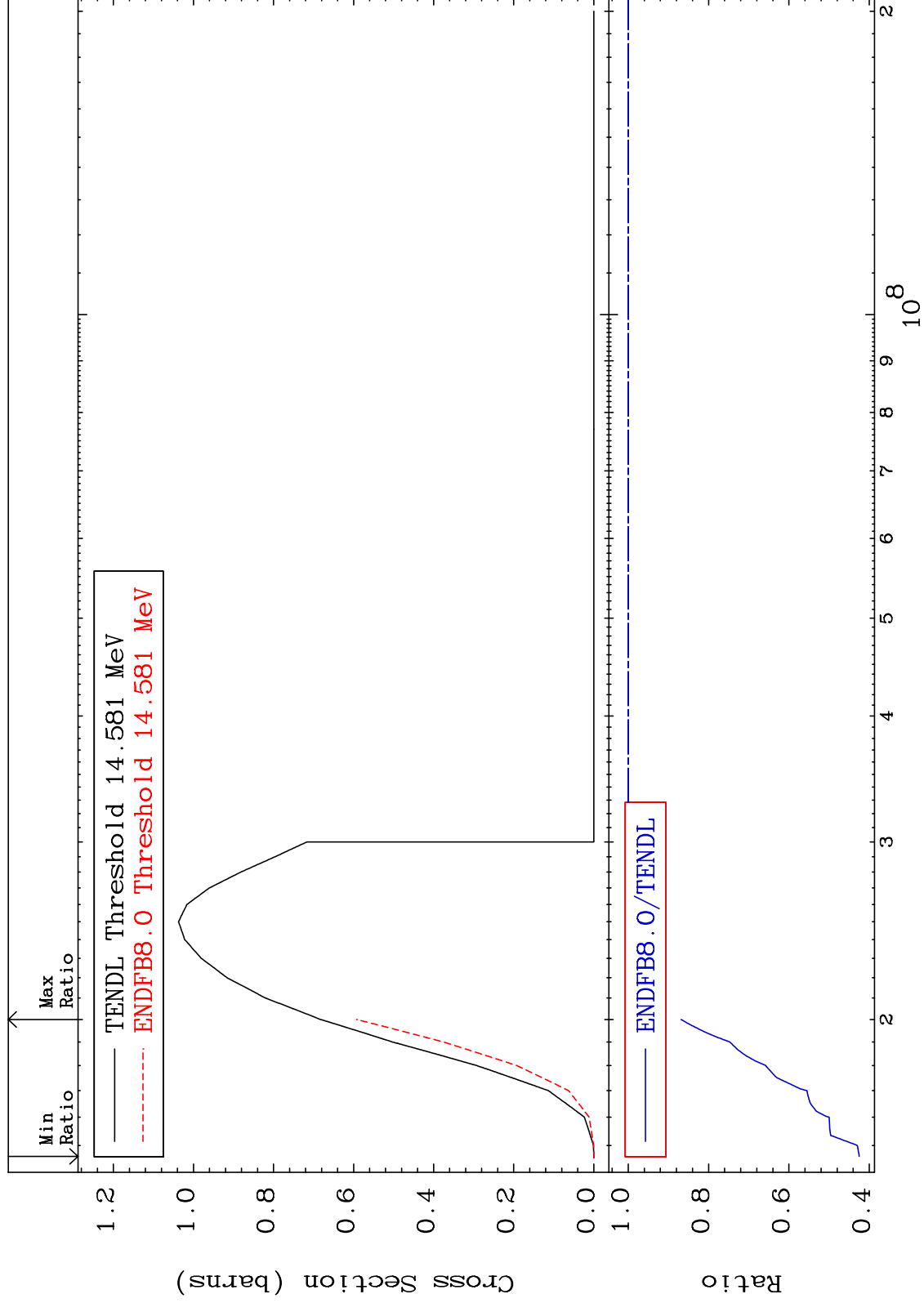
MAT 6237

(n, 3n)

62-Sm-148

Cross Section

-57.51 To -13.15%



5

Incident Energy (eV)

62-Sm-148

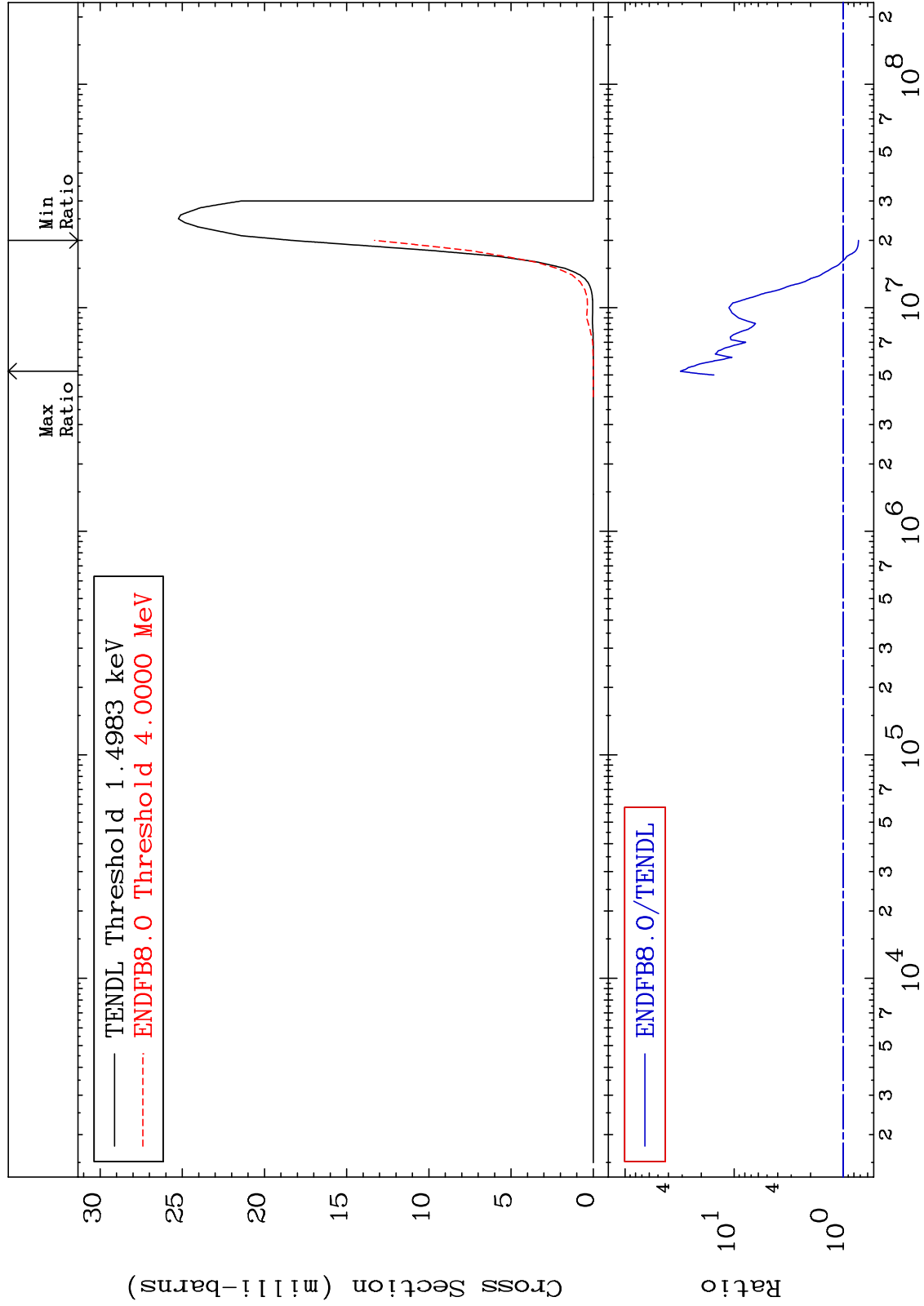
MAT 6237

(n,n') α

62-Sm-148

Cross Section

-27.42 To 3007. %



6

Incident Energy (eV)

62-Sm-148

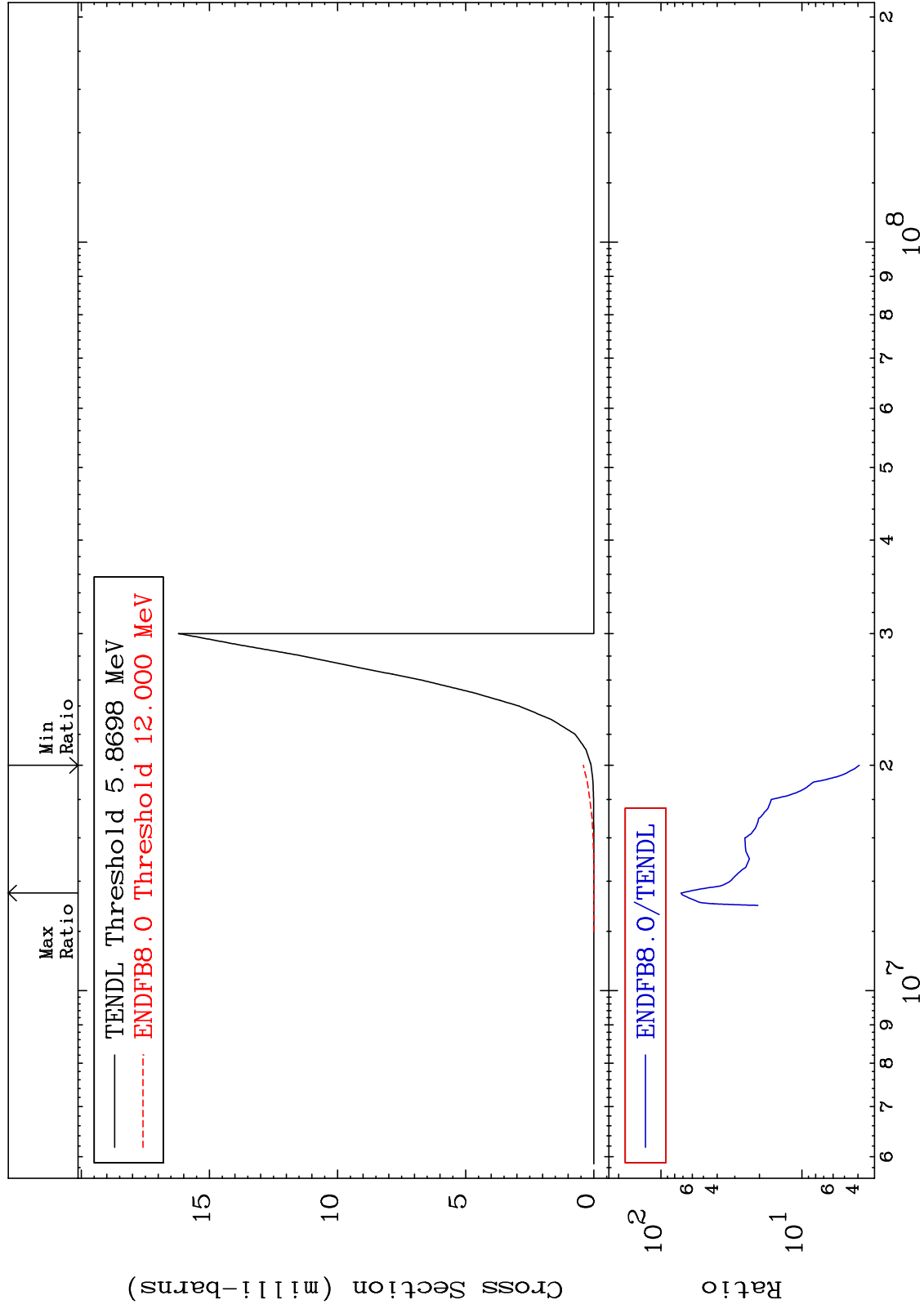
MAT 6237

(n,2n) α

62-Sm-148

Cross Section

291.6 To 7111. %



7

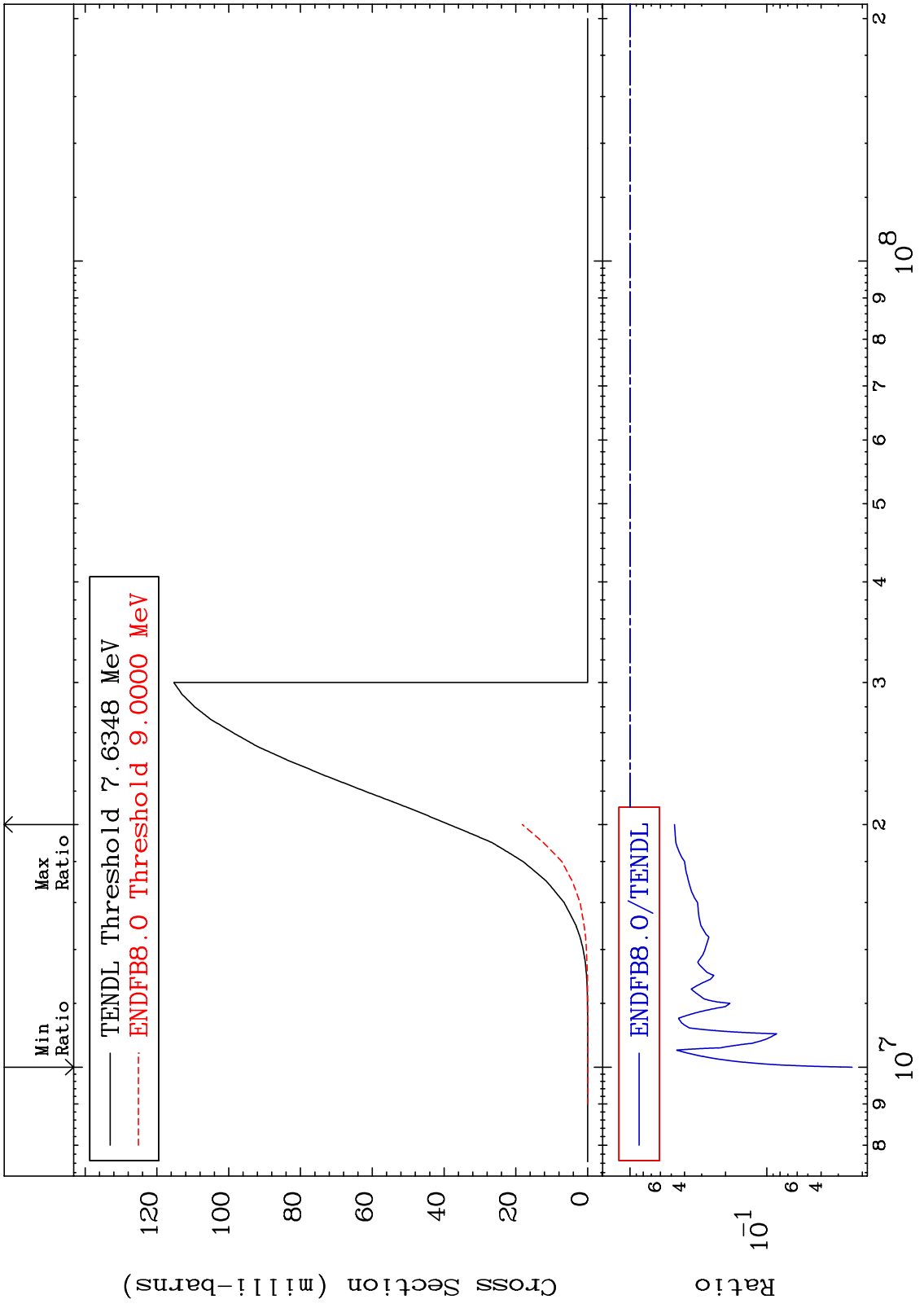
Incident Energy (eV)

62-Sm-148

MAT 6237

(n,n') p
Cross Section

62-Sm-148
-97.63 To -52.75%



8

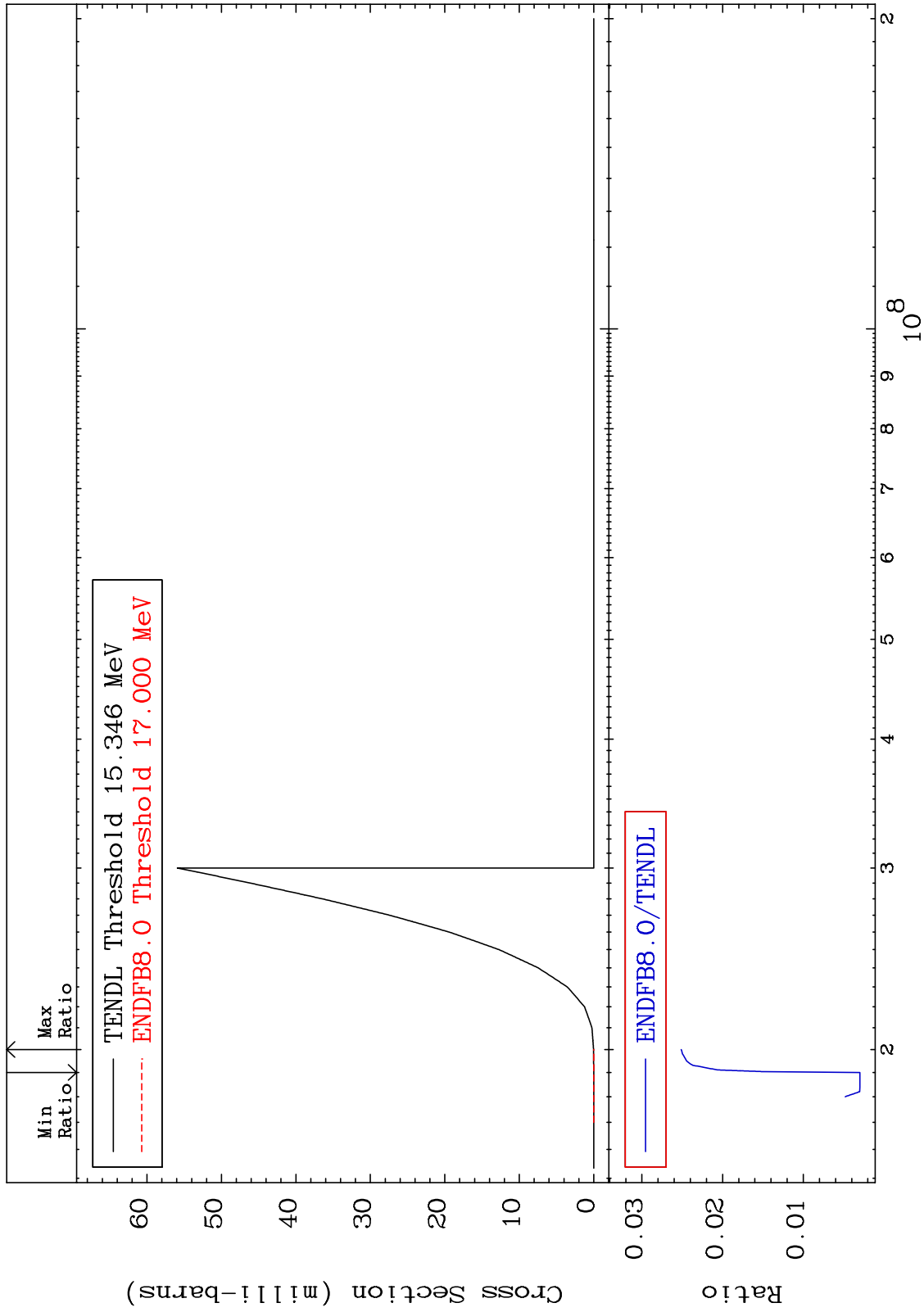
Incident Energy (eV)

62-Sm-148

MAT 6237

(n,2n) p
Cross Section

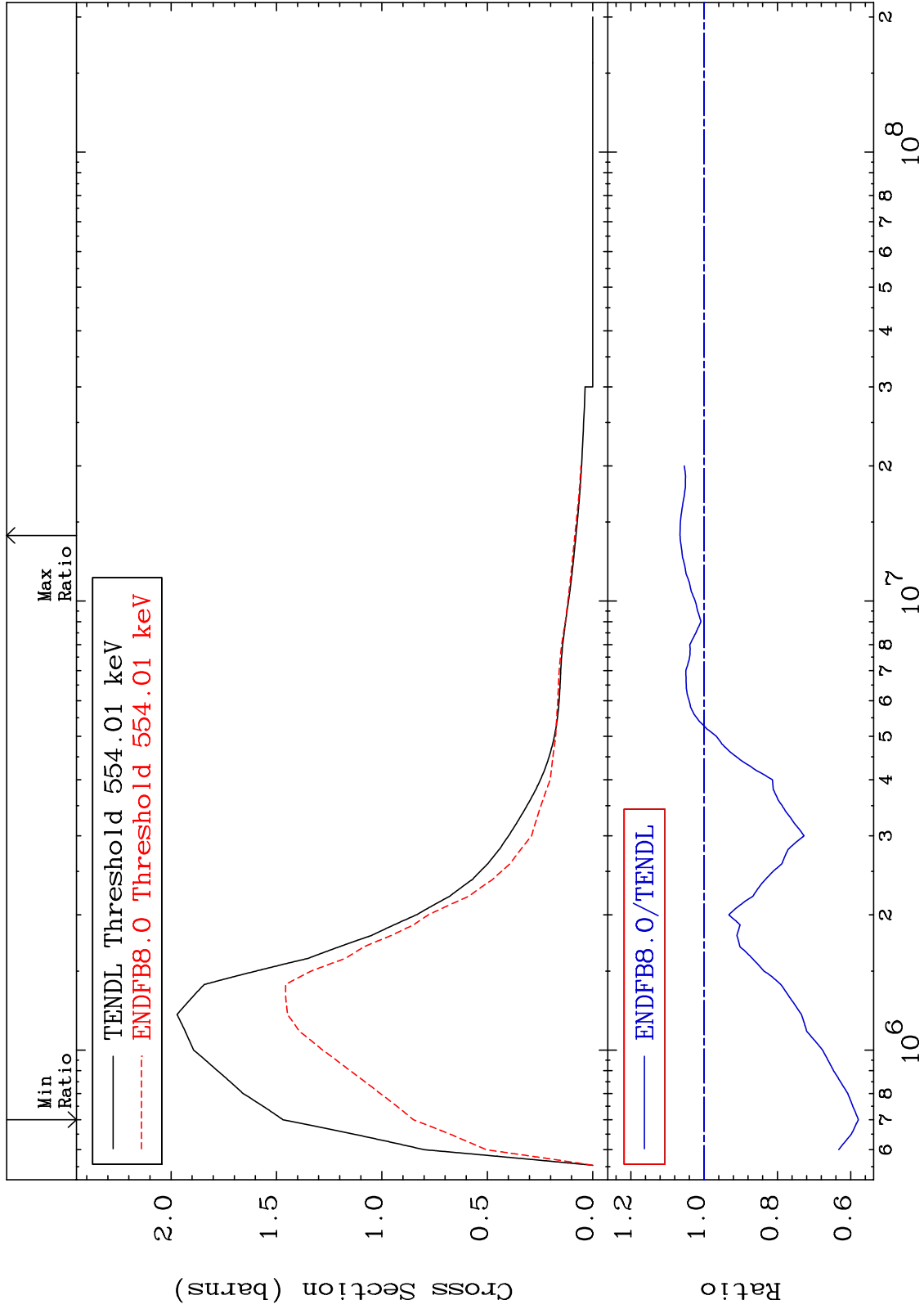
62-Sm-148
-99.70 To -97.49%



MAT 6237

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

62-Sm-148
-42.12 To 6.566 %

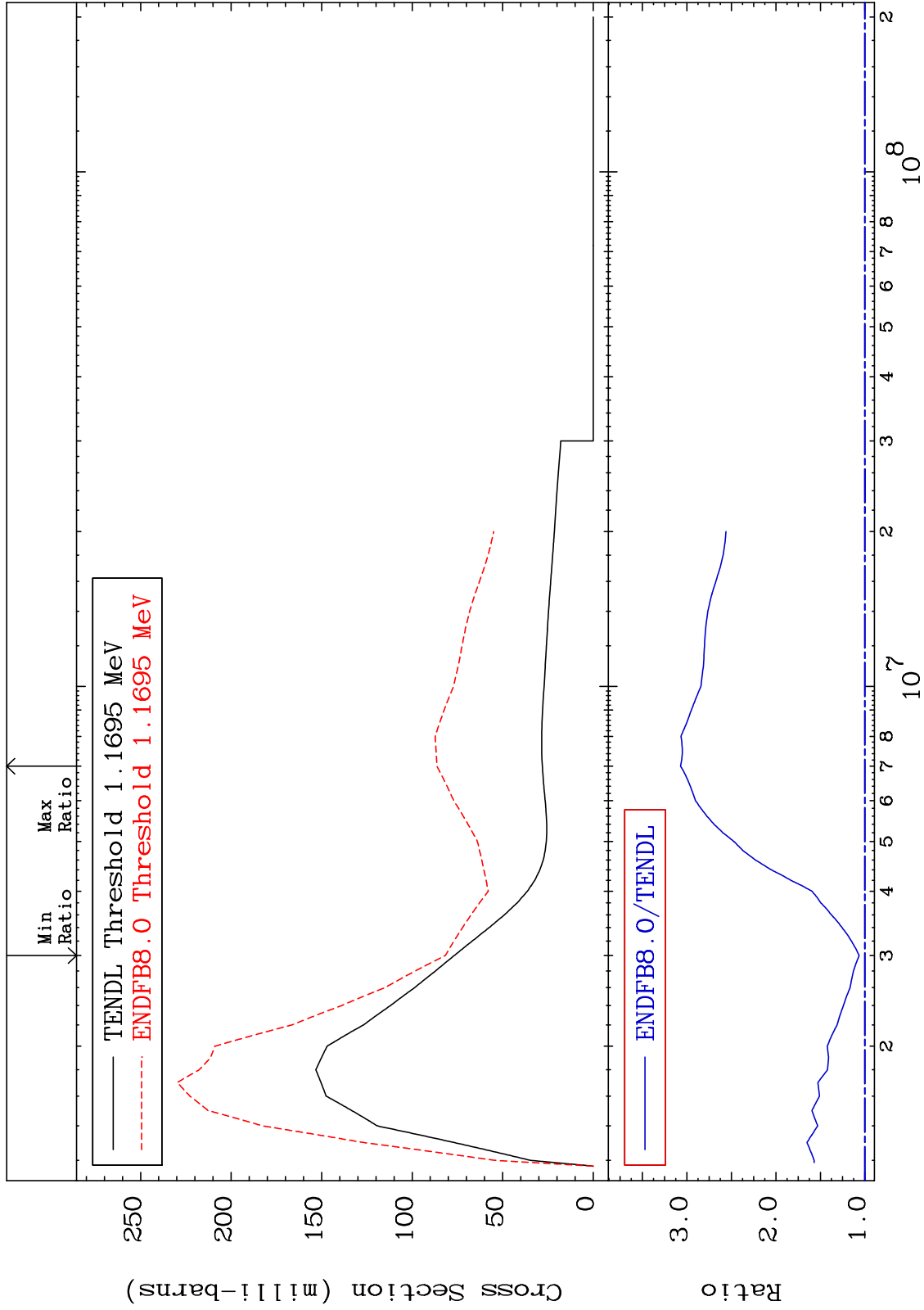


10 1.2 1.0 0.8 0.6 10⁶ 10⁷ 10⁸ Incident Energy (eV) 62-Sm-148

MAT 6237

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

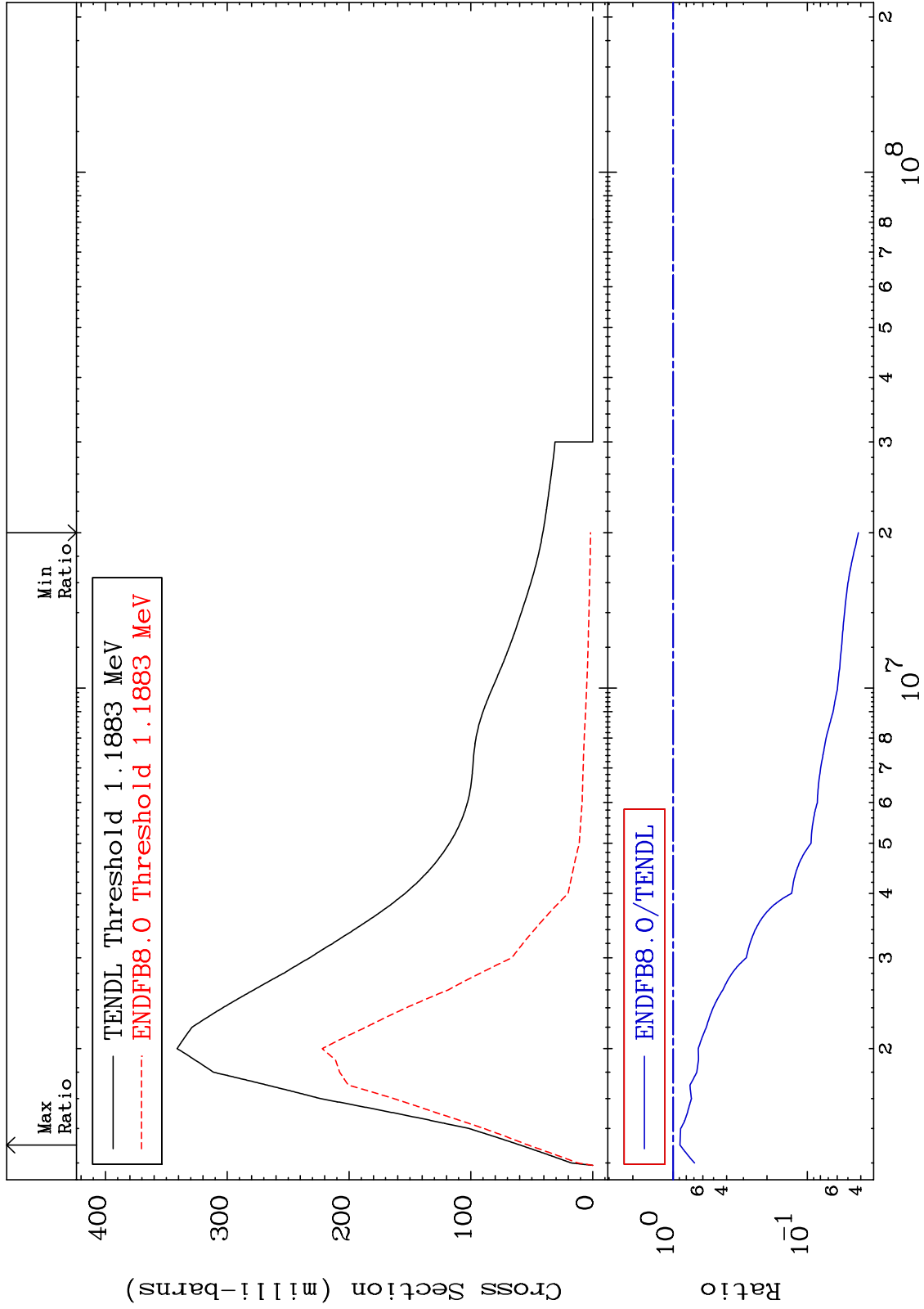
62-Sm-148
6.411 To 207.1 %



MAT 6237

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

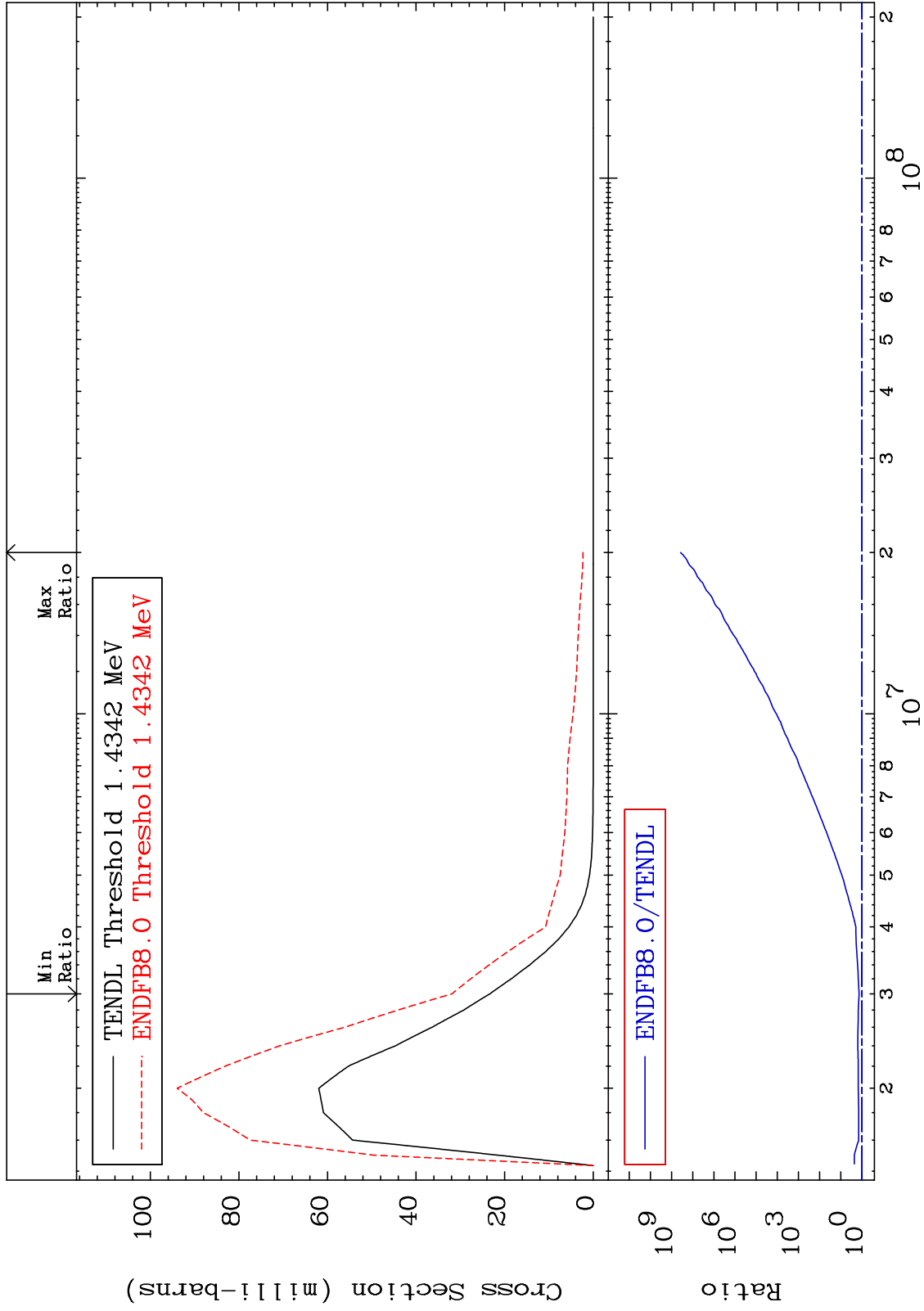
62-Sm-148
-95.83 To -11.08%



MAT 6237

MT= 54 (n, n') Level
Cross Section

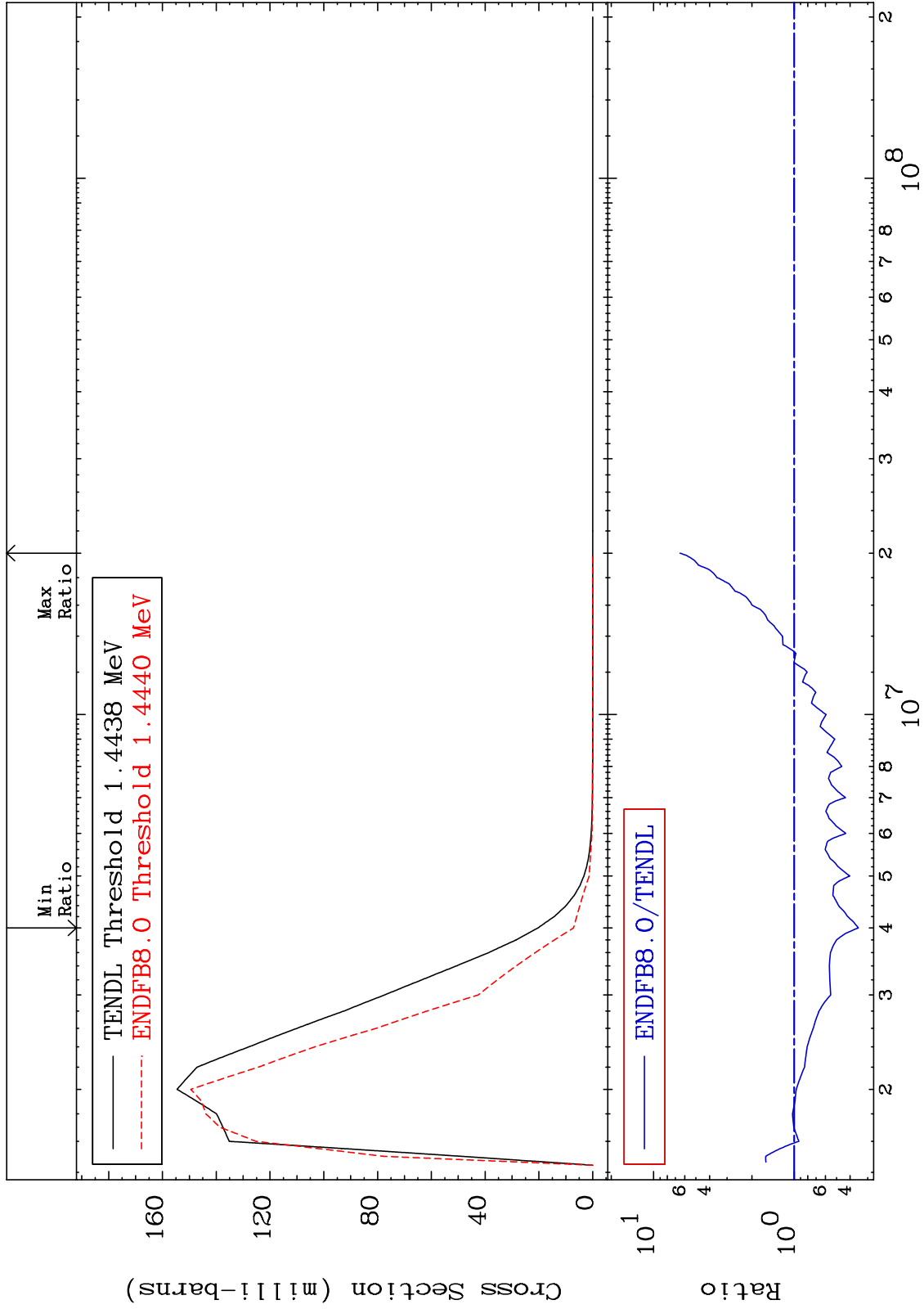
62-Sm-148
36.57 To 9999. %



MAT 6237

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

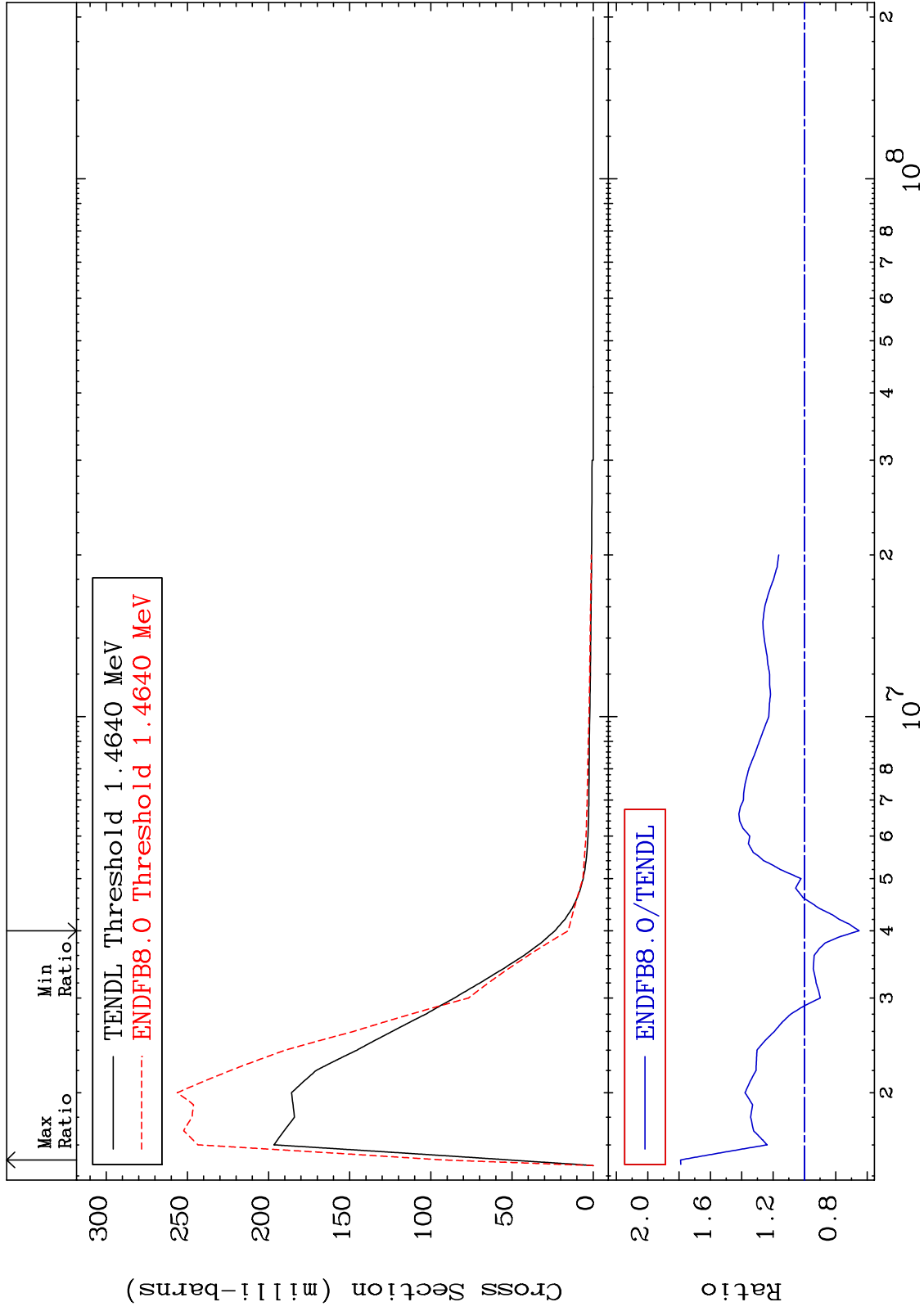
62-Sm-148
-65.06 To 548.7 %



MAT 6237

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

62-Sm-148
-34.93 To 79.03 %



15

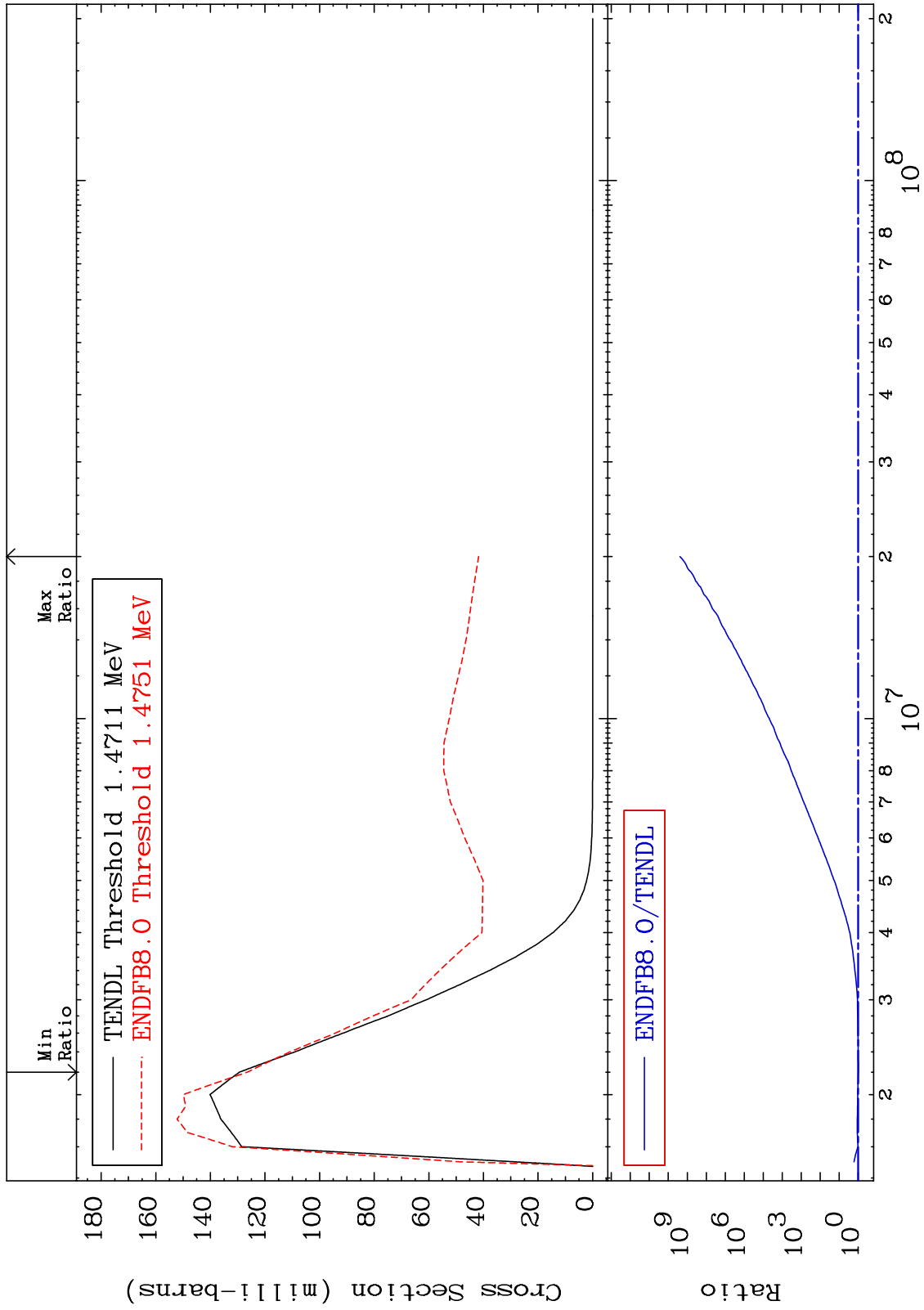
Incident Energy (eV)

62-Sm-148

MAT 6237

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

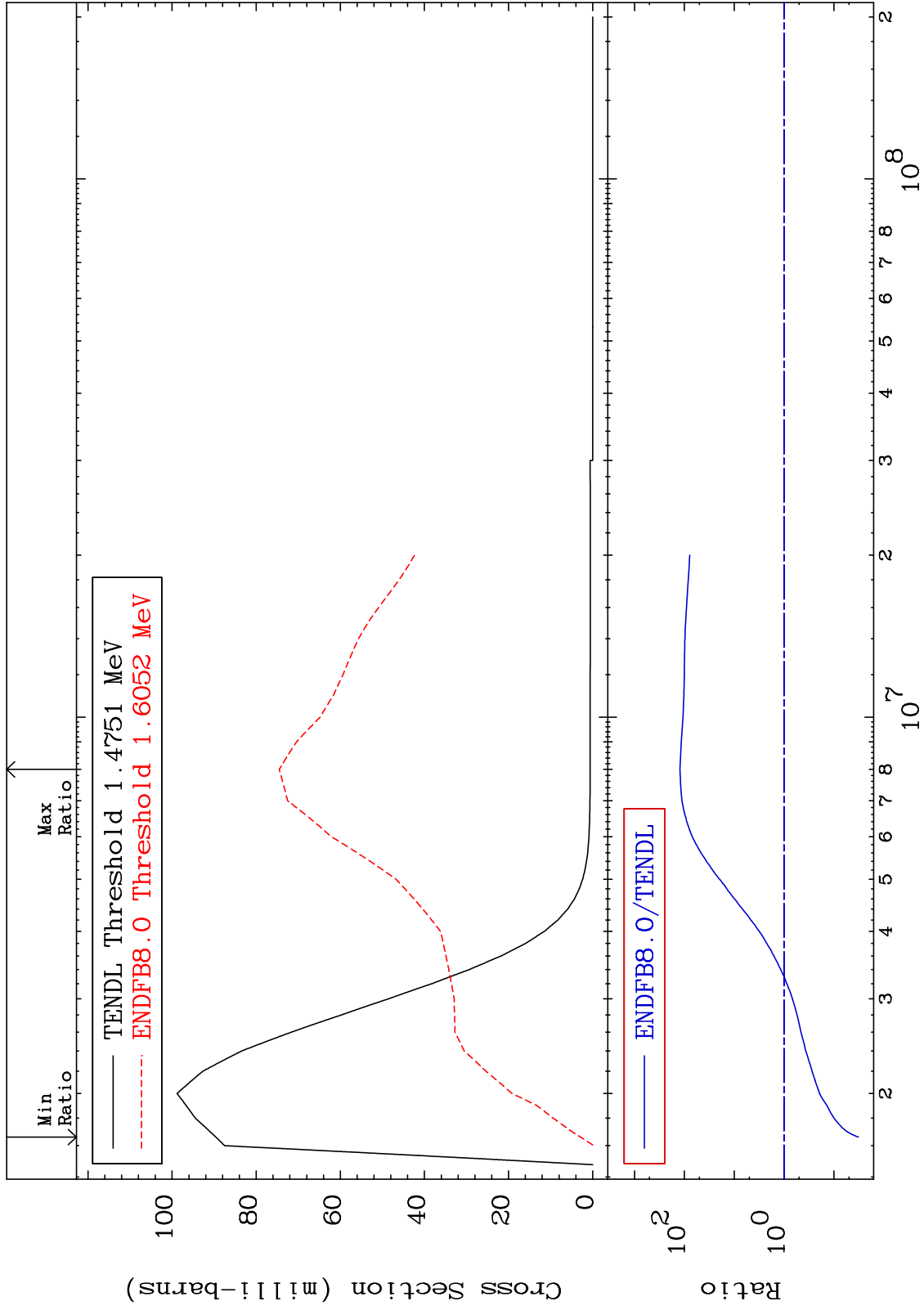
62-Sm-148
-2.219 To 9999. %



MAT 6237

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

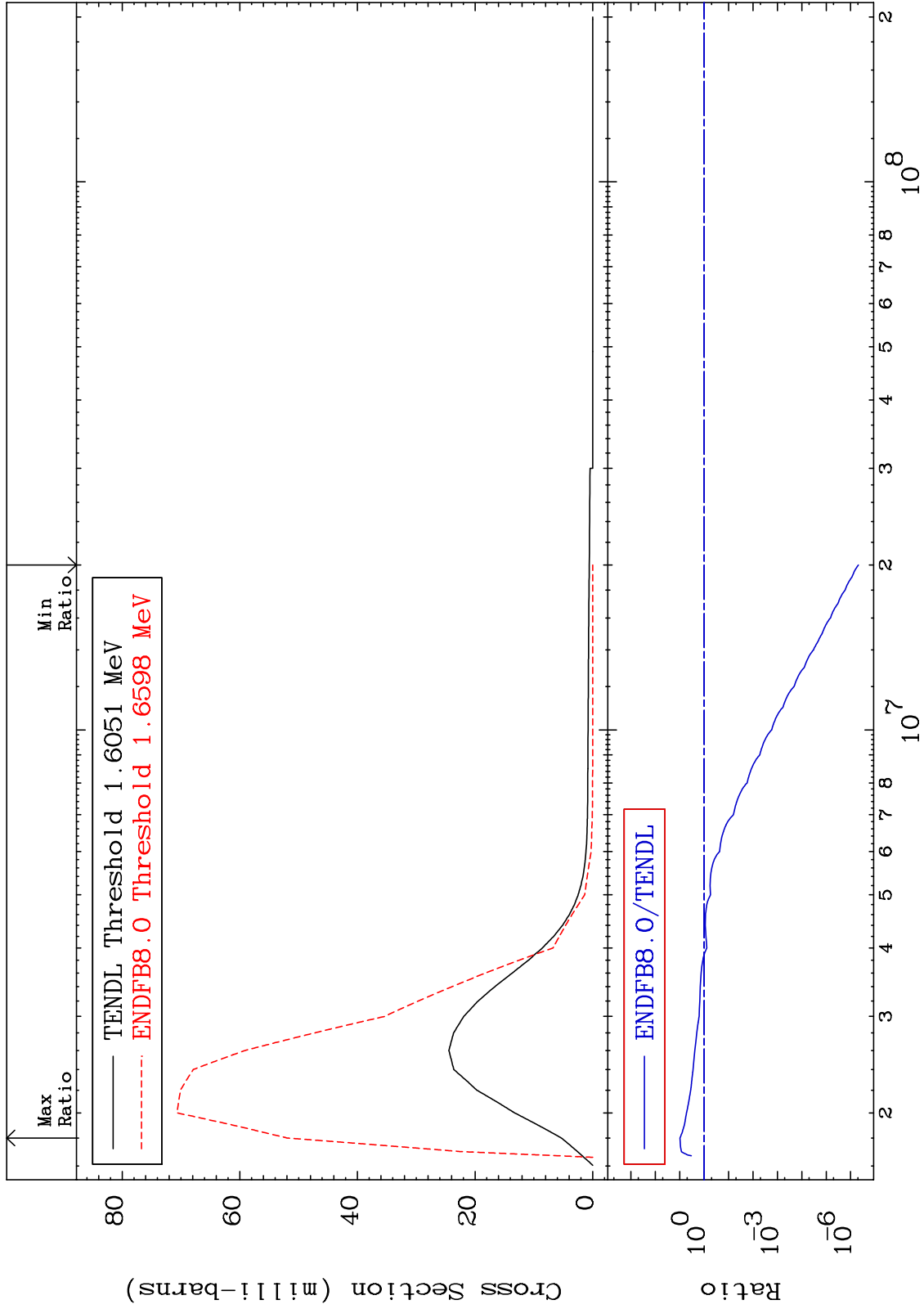
62-Sm-148
-96.77 To 9999. %



MAT 6237

MT= 59 (n,n') Level
Cross Section

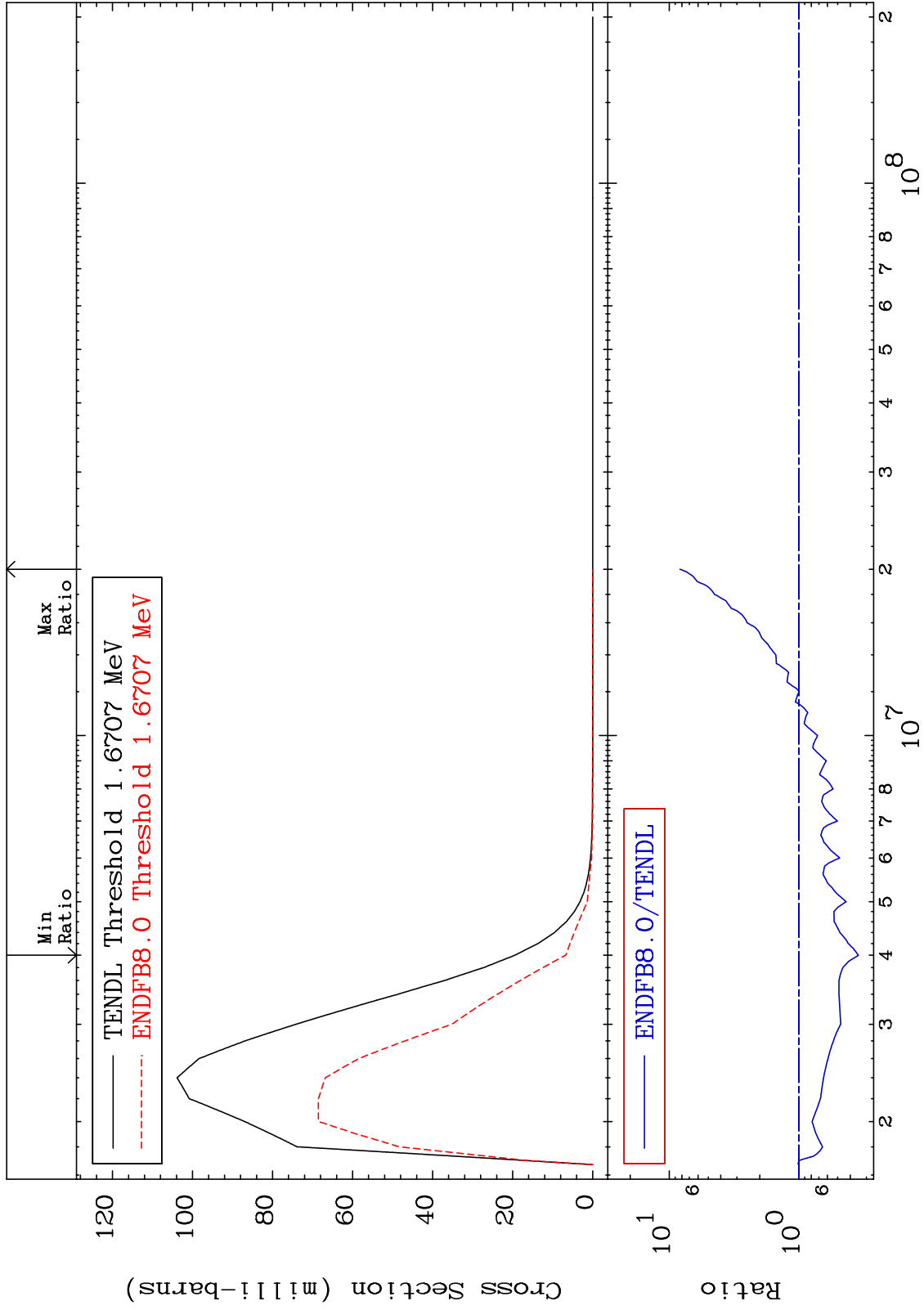
62-Sm-148
-100.0 To 877.2 %



MAT 6237

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

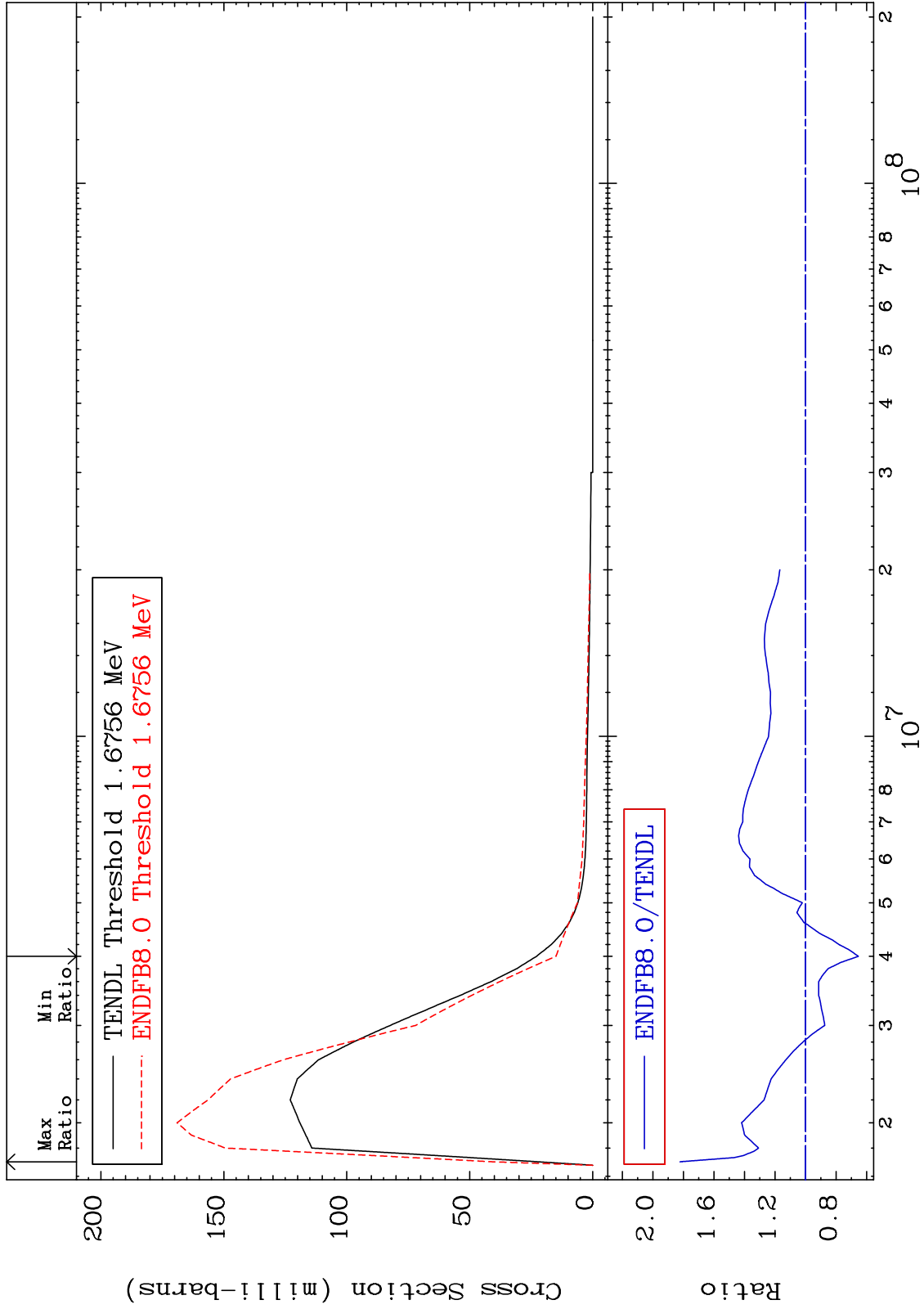
62-Sm-148
-65.41 To 726.0 %



MAT 6237

MT= 61 (n,n') Level
Cross Section

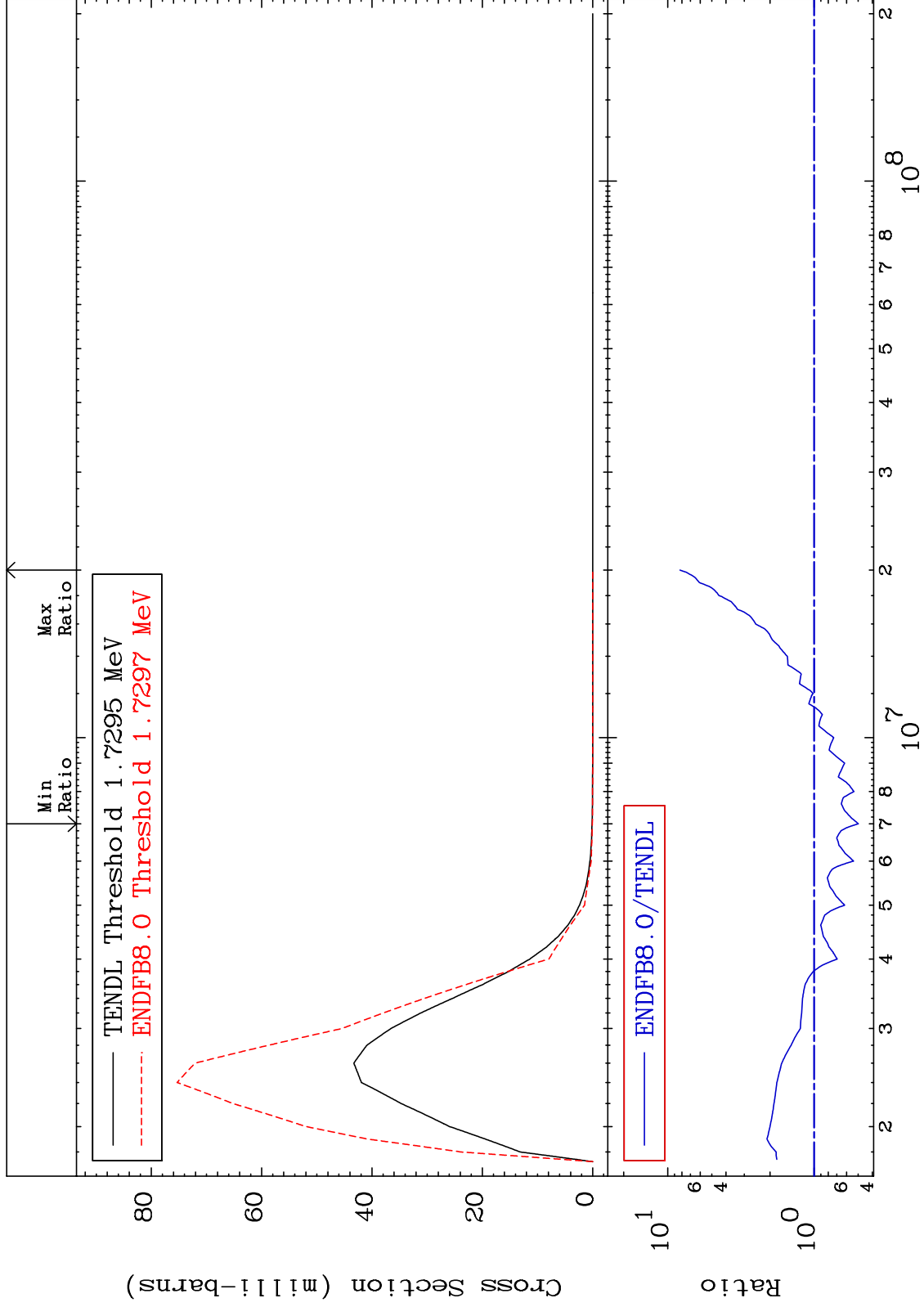
62-Sm-148
-34.58 To 82.26 %



MAT 6237

MT= 62 (n,n') Level
Cross Section

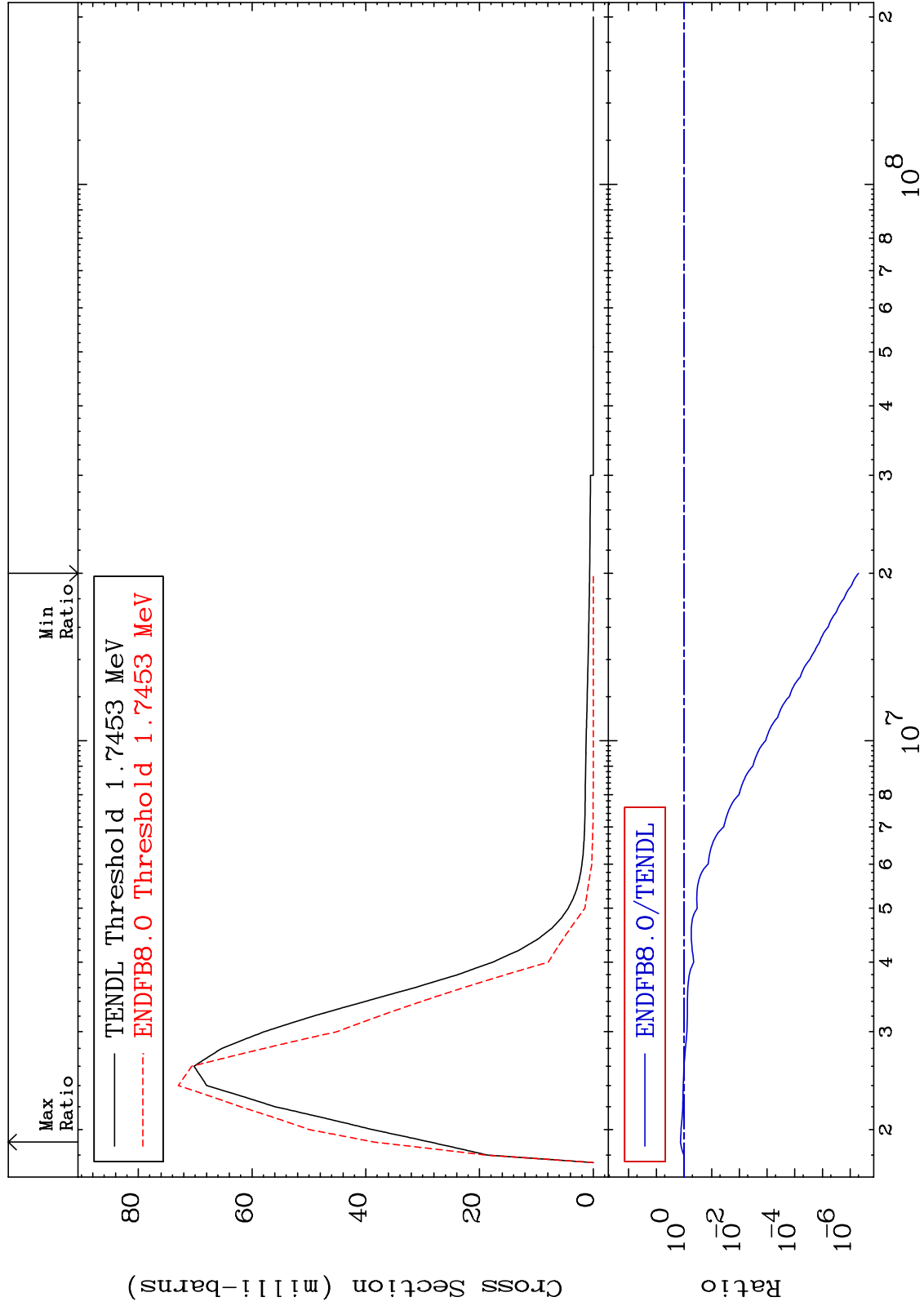
62-Sm-148
-50.19 To 723.8 %



MAT 6237

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

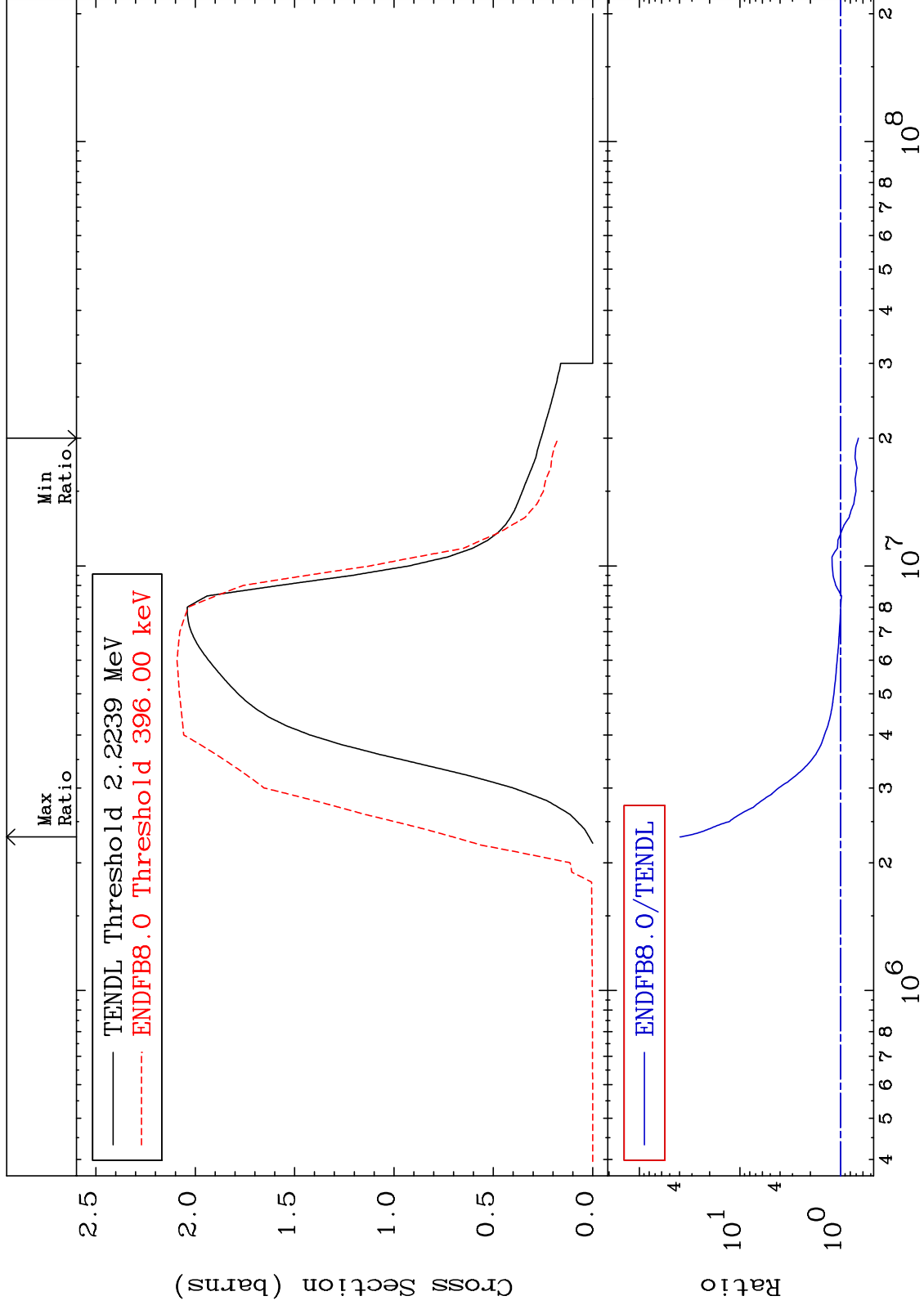
62-Sm-148
-100.0 To 34.55 %



MAT 6237

(n, n') Continuum
Cross Section

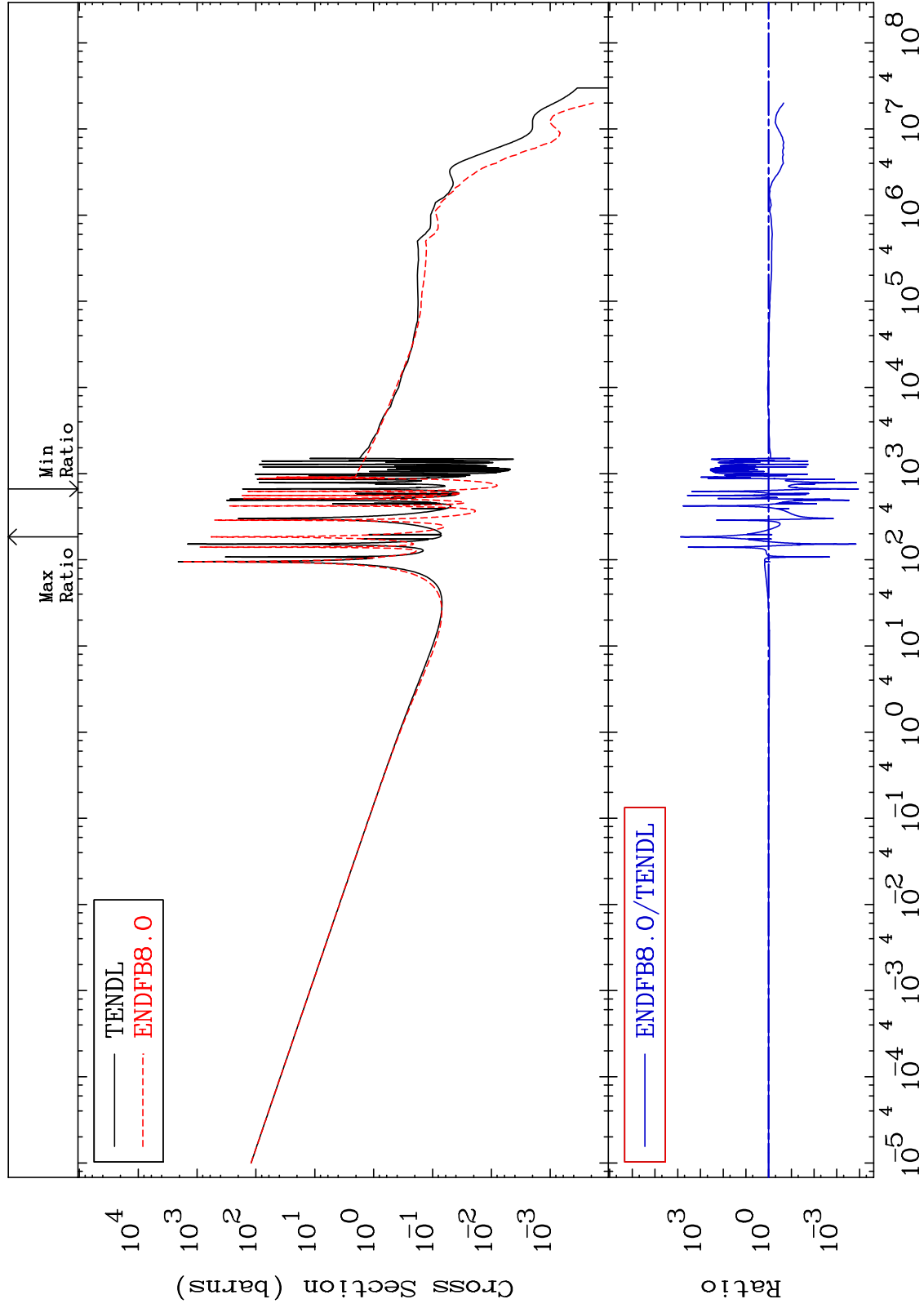
62-Sm-148
-33.57 To 3848. %



MAT 6237

(n, γ)
Cross Section

62-Sm-148
-99.99 To 9999. %



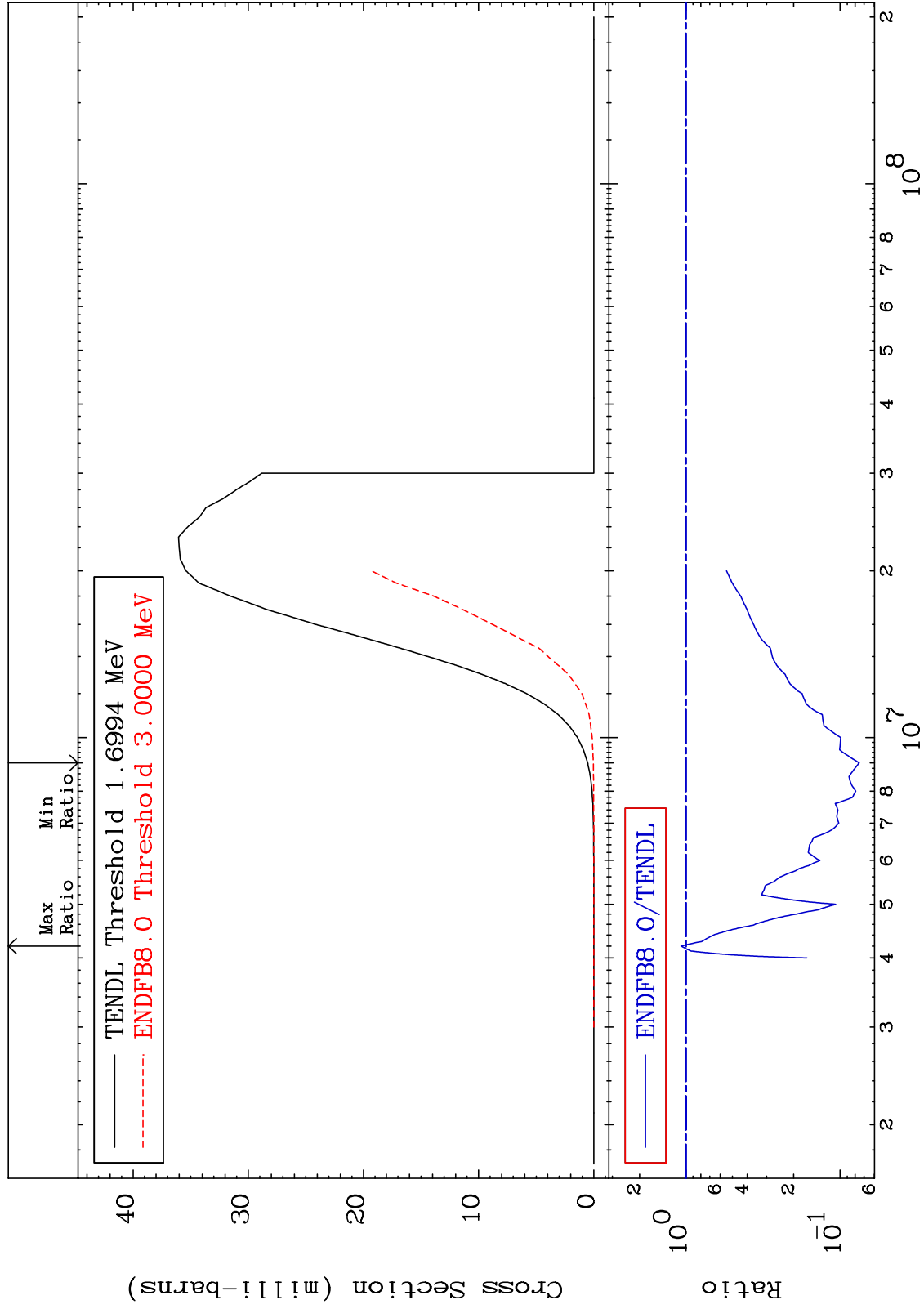
MAT 6237

(n, p)

62-Sm-148

Cross Section

-92.49 To 7.504 %



25

Incident Energy (eV)

62-Sm-148

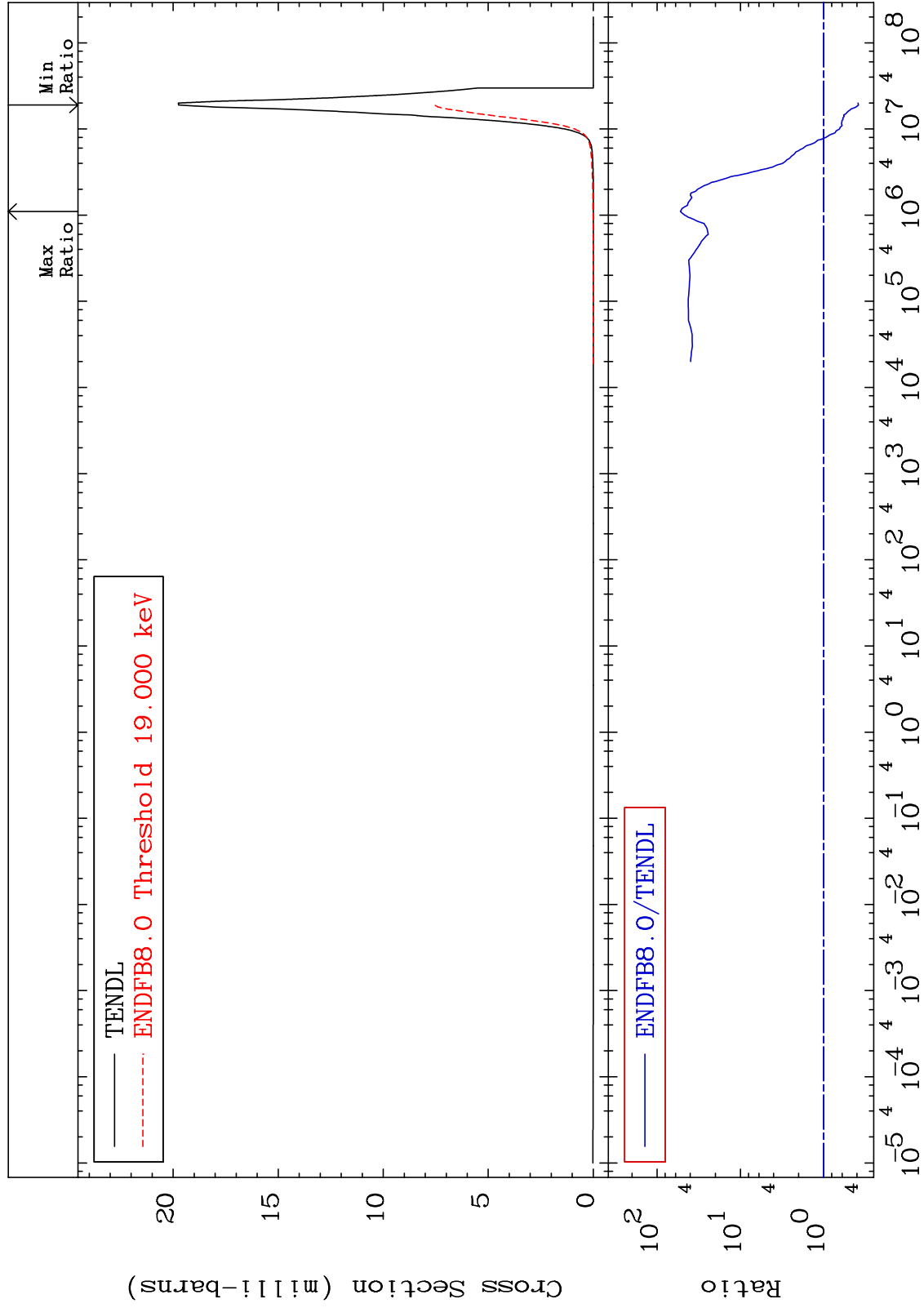
MAT 6237

(n, α)

62-Sm-148

Cross Section

-61.78 To 5146. %



26

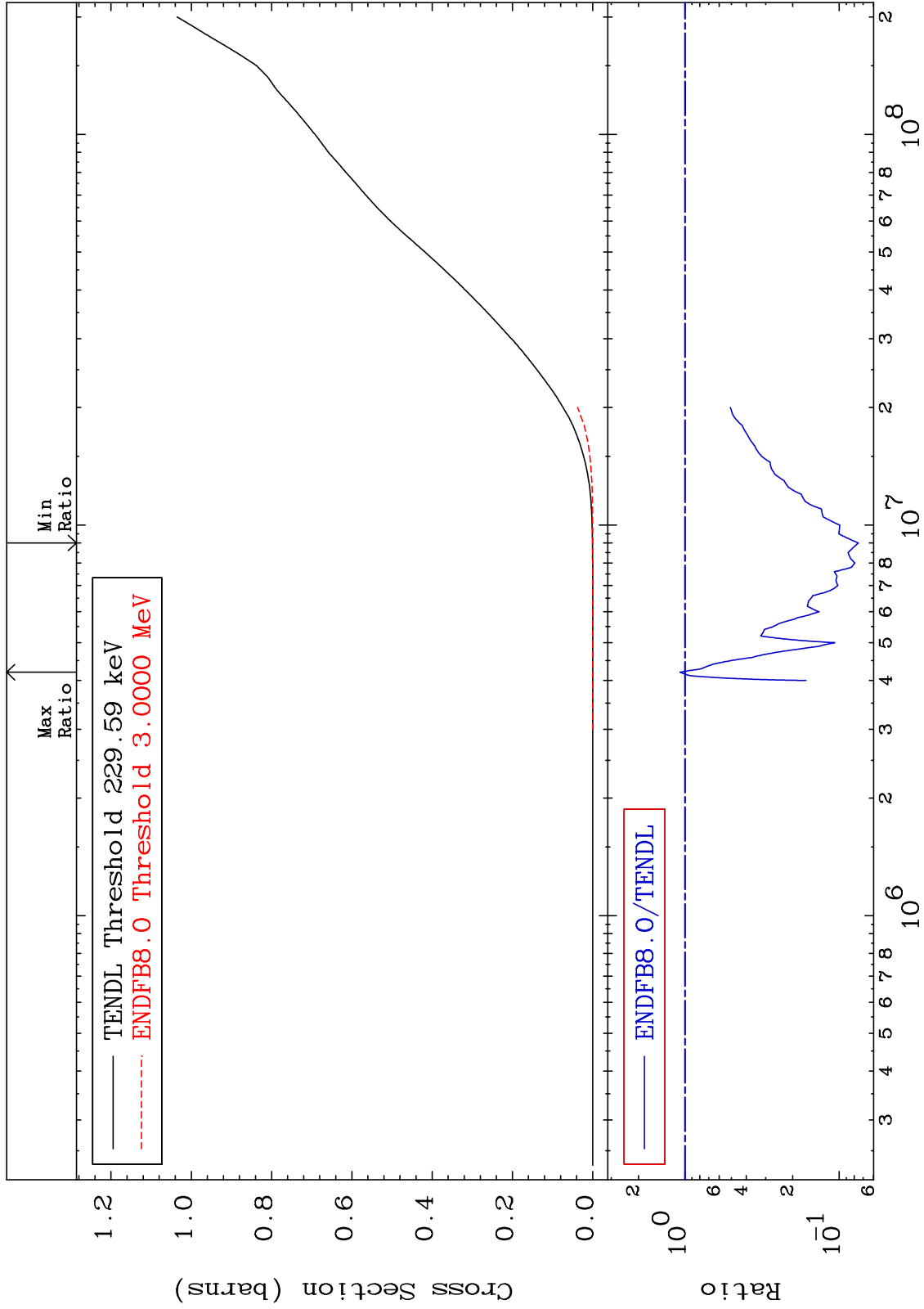
Incident Energy (eV)

62-Sm-148

MAT 6237

Hydrogen Production
Cross Section

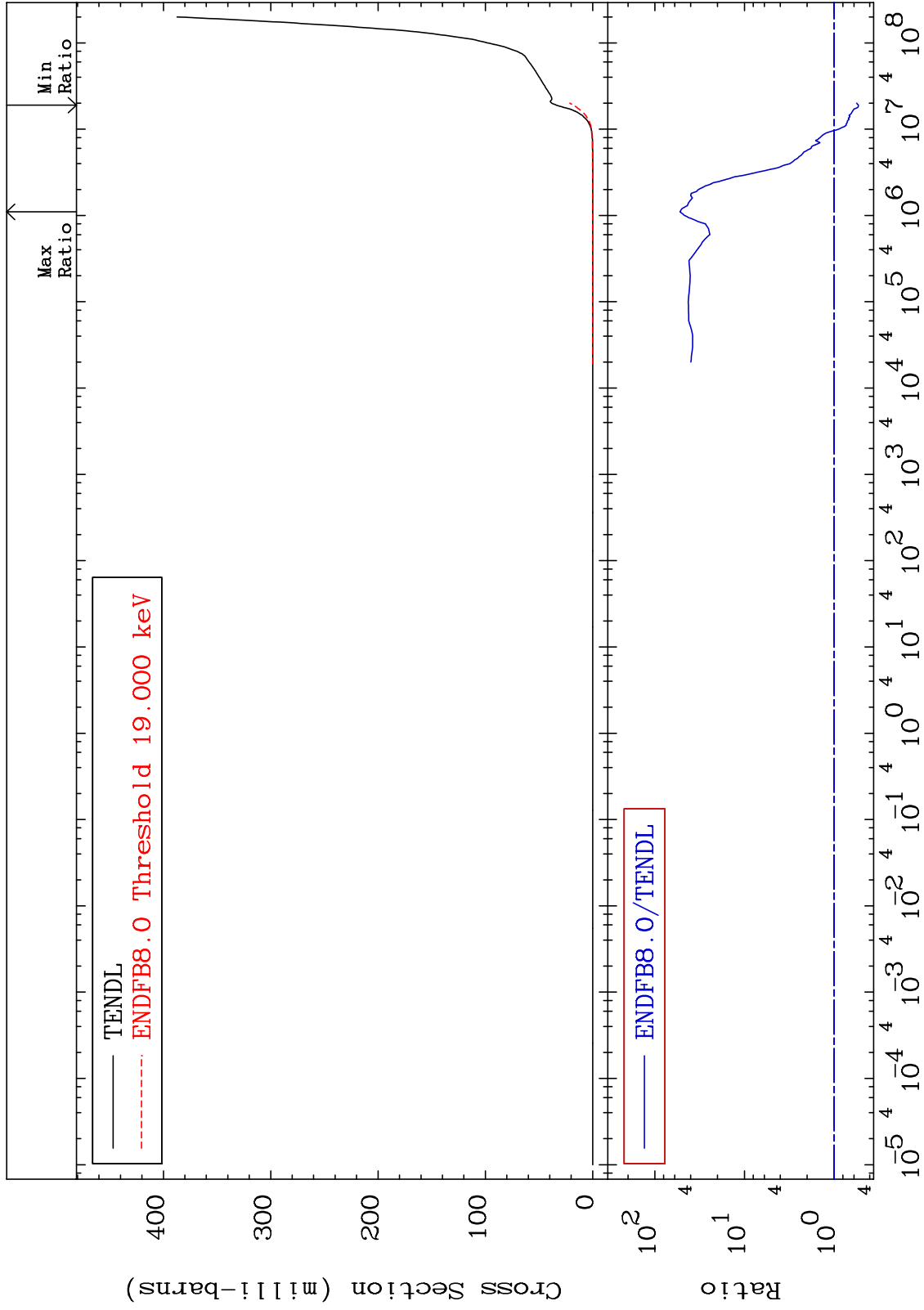
62-Sm-148
-92.49 To 7.504 %



MAT 6237

He-4 Production
Cross Section

62-Sm-148
-46.43 To 5146. %



28

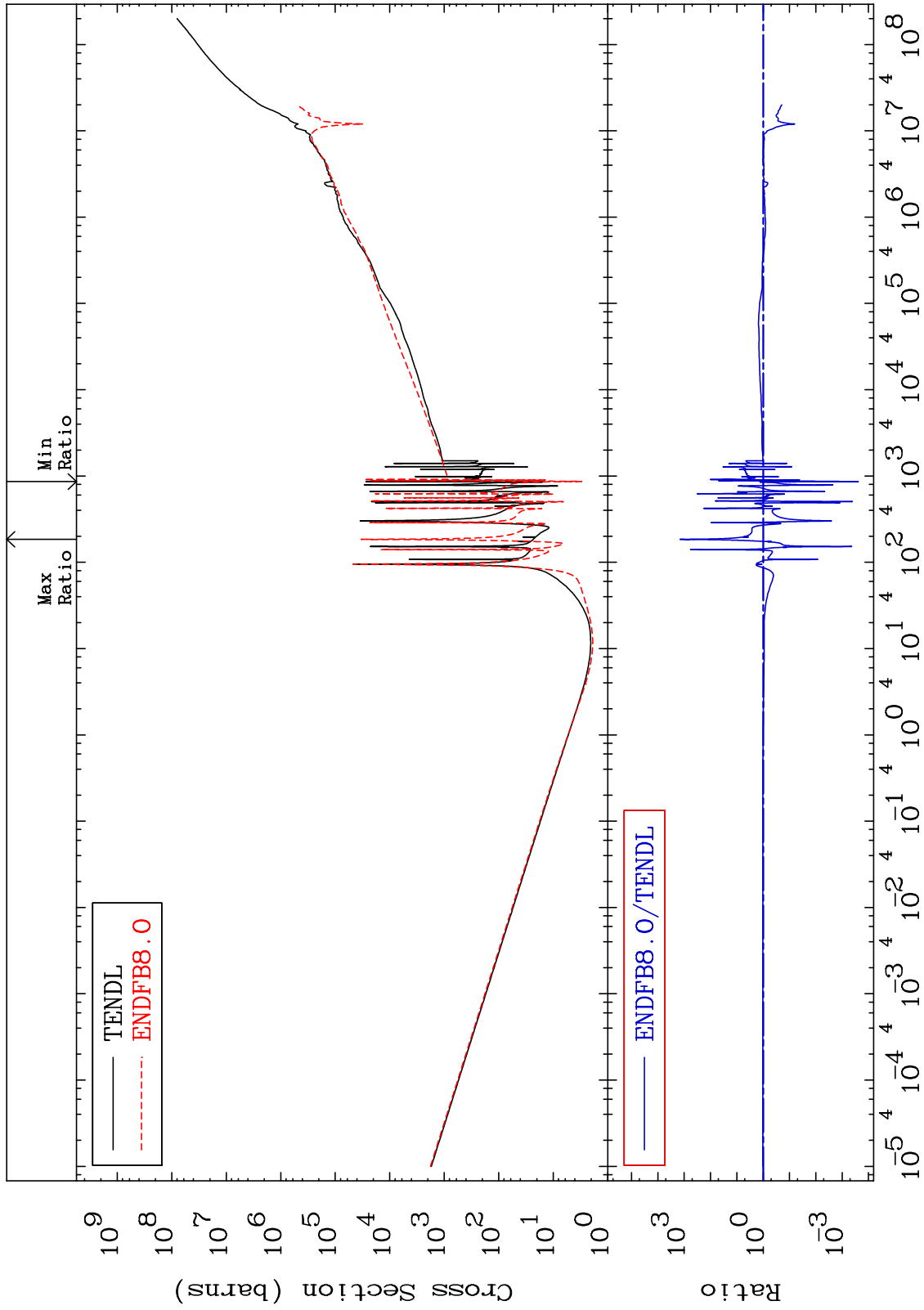
Incident Energy (eV)

62-Sm-148

MAT 6237

Kerma total (eV-barns)
Cross Section

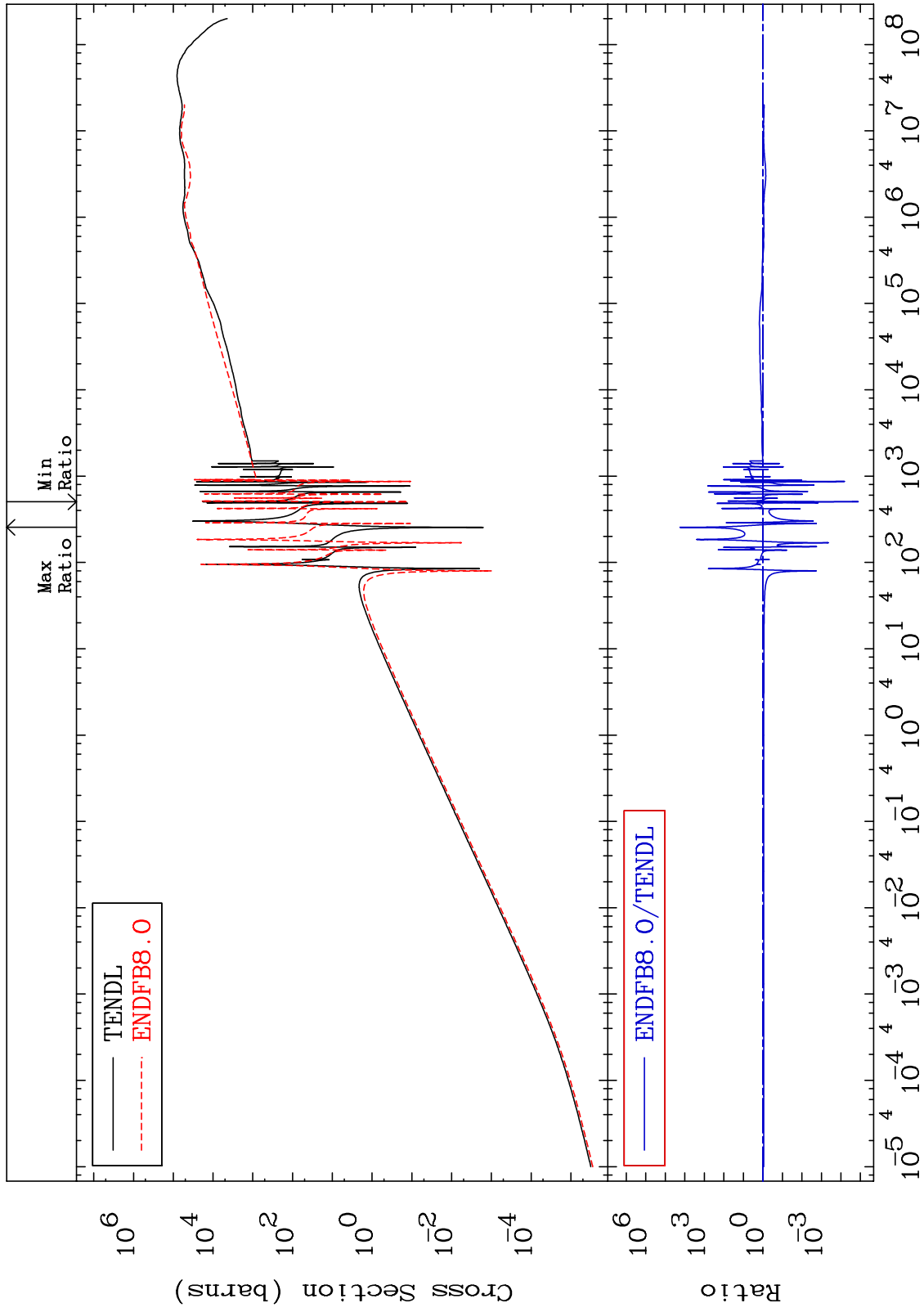
62-Sm-148
-99.98 To 9999. %



MAT 6237

Kerma elastic
Cross Section

62-Sm-148
-100.0 To 9999. %



30

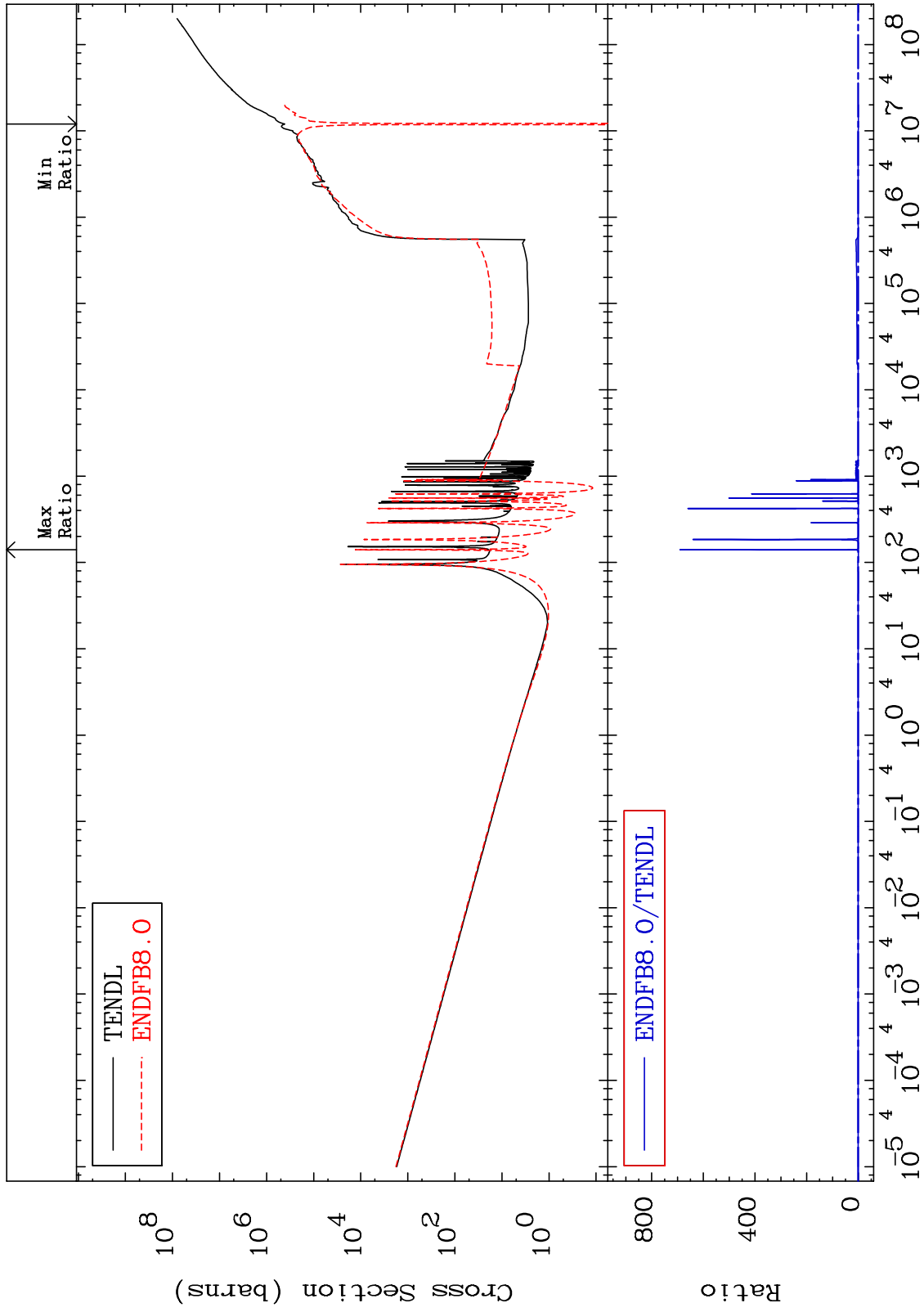
Incident Energy (eV)

62-Sm-148

MAT 6237

Kerma non-elastic (all but mt2)
Cross Section

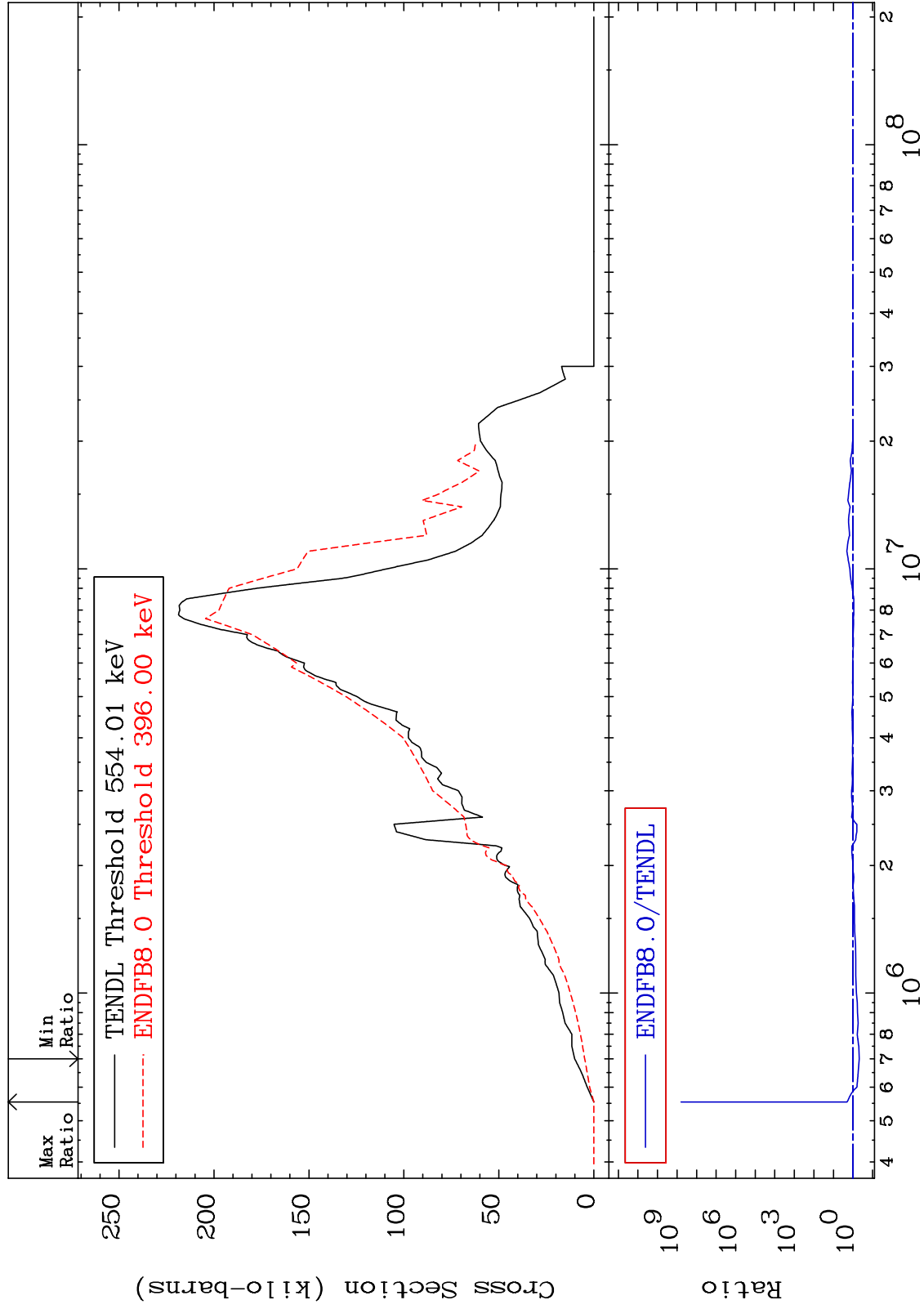
62-Sm-148
-107.4 To 9999. %



MAT 6237

Kerma inelastic (mt51-91)
Cross Section

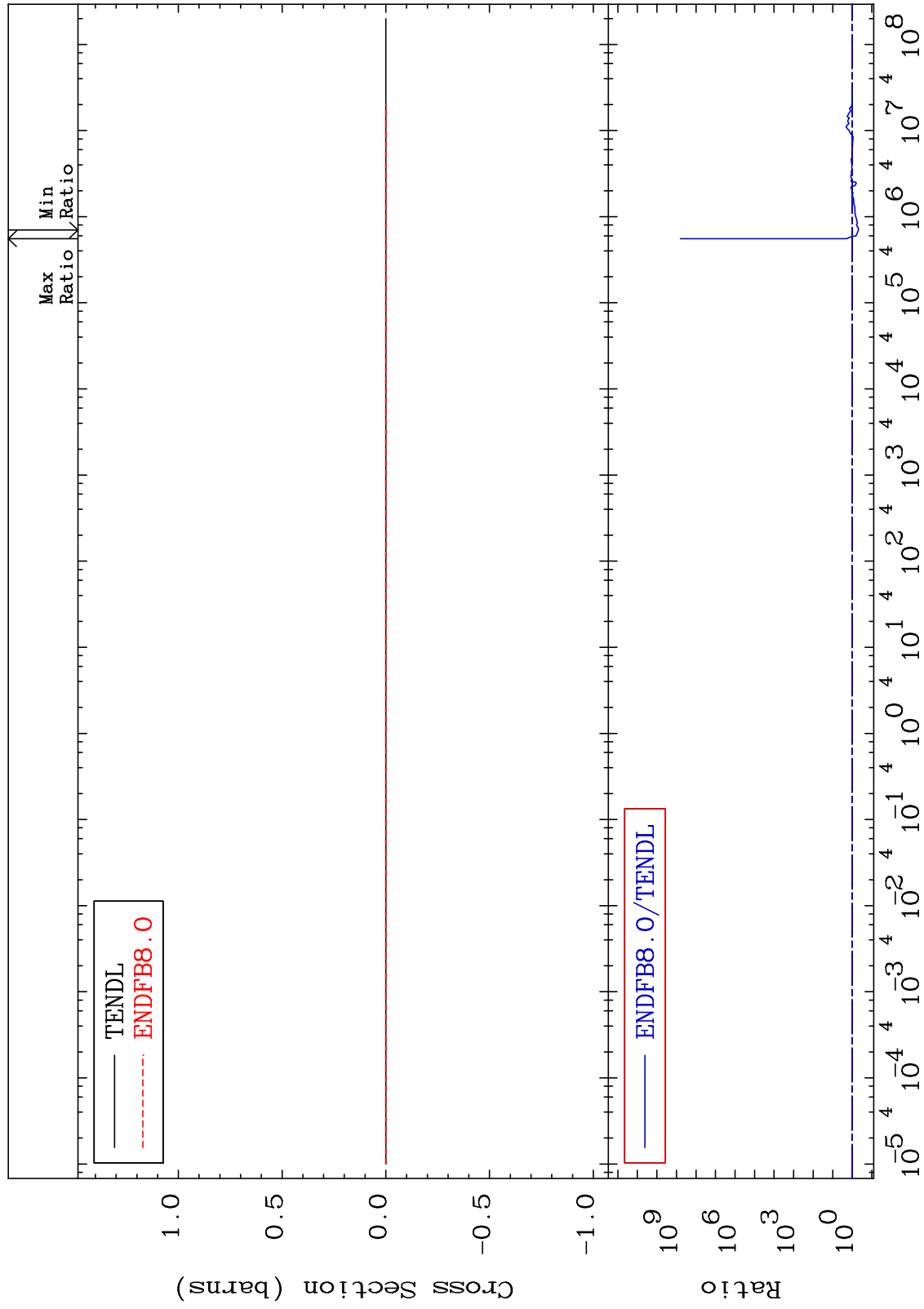
62-Sm-148
-52.33 To 9999. %



MAT 6237

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

62-Sm-148
-52.33 To 9999. %



33

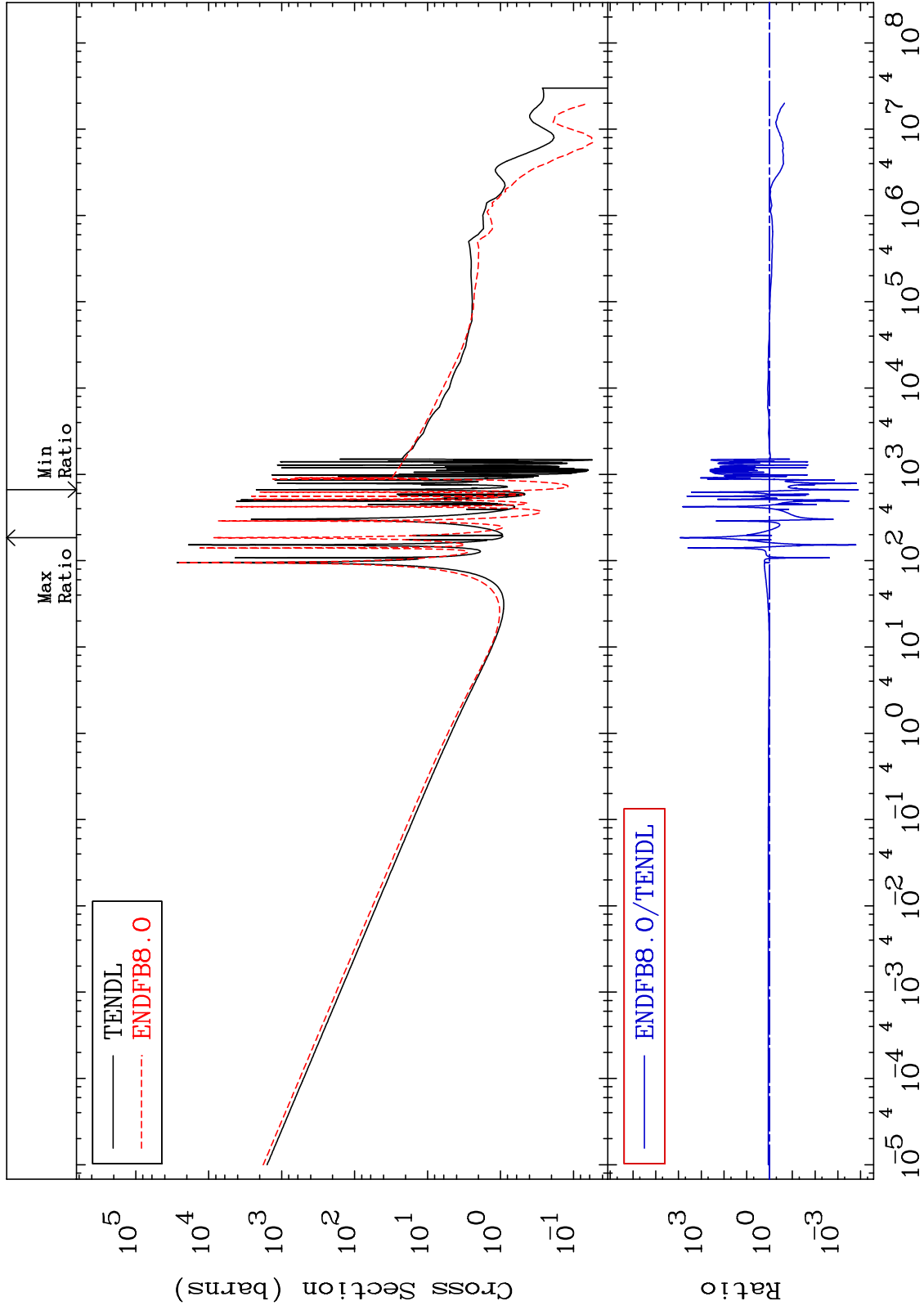
Incident Energy (eV)

62-Sm-148

MAT 6237

Kerma capture (mt102)
Cross Section

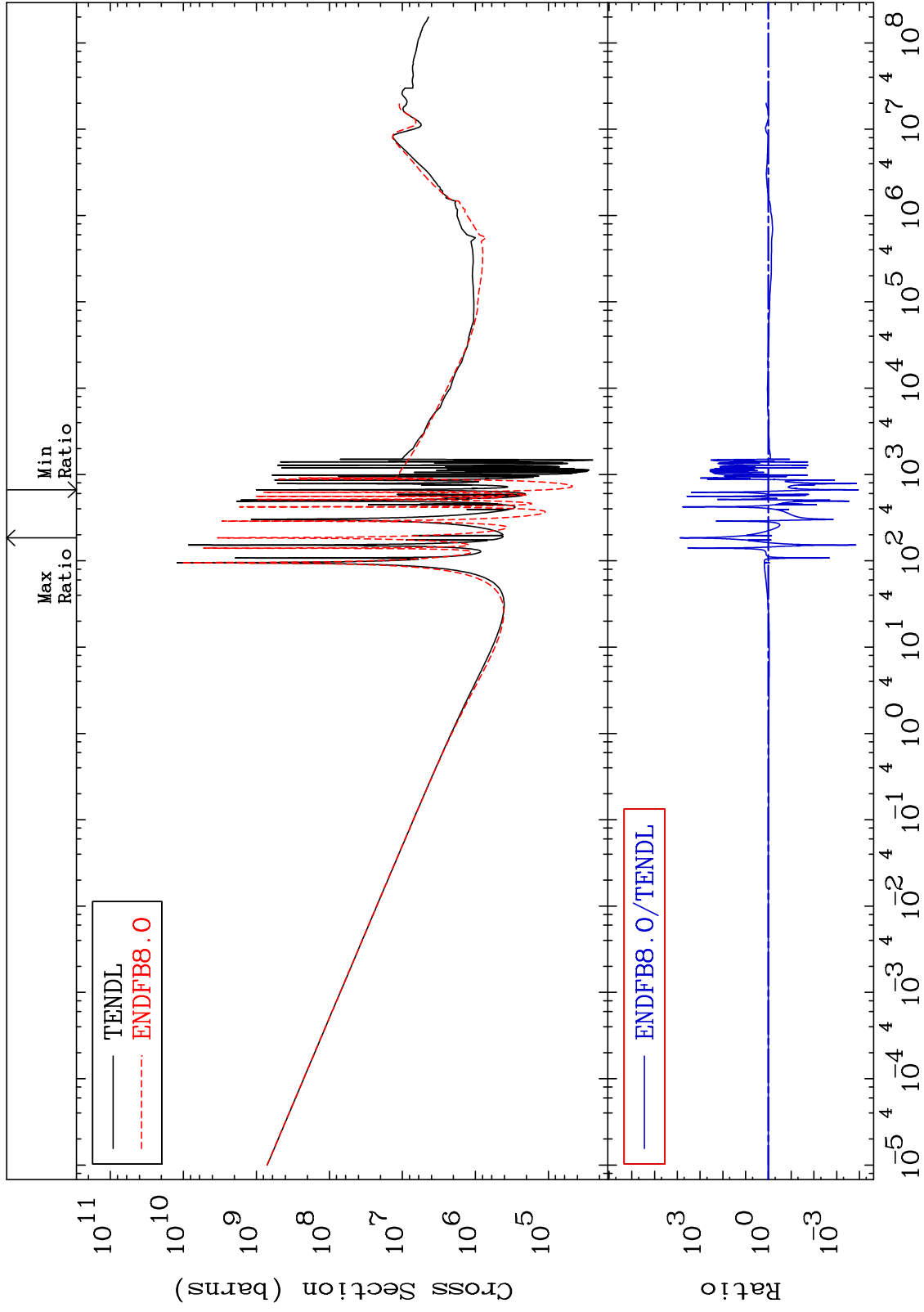
62-Sm-148
-99.99 To 9999. %



MAT 6237

Total photon (eV-barns)
Cross Section

62-Sm-148
-99.99 To 9999. %



35

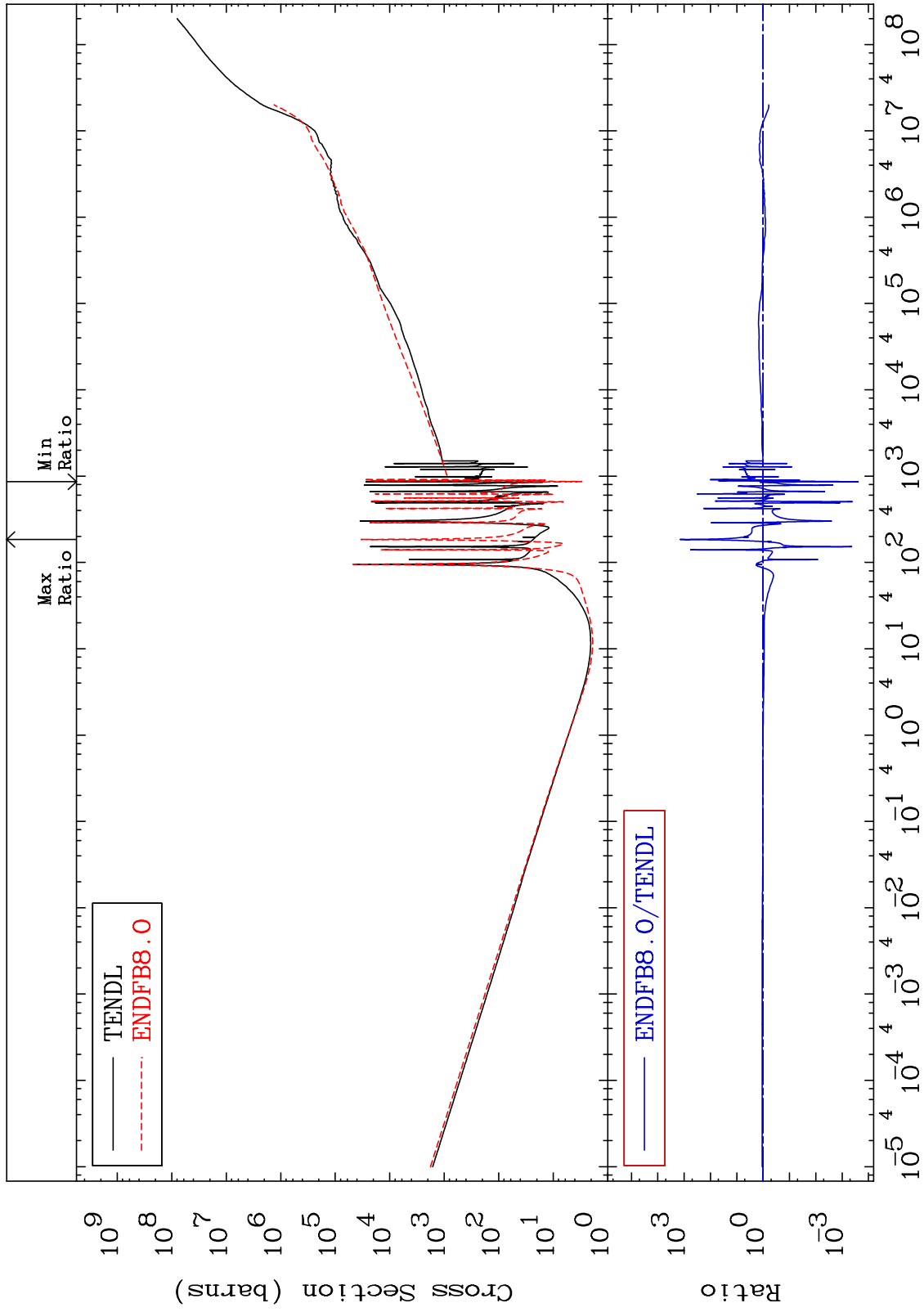
Incident Energy (eV)

62-Sm-148

MAT 6237

Total kinematic kerma (high limit)
Cross Section

62-Sm-148
-99.98 To 9999. %



36

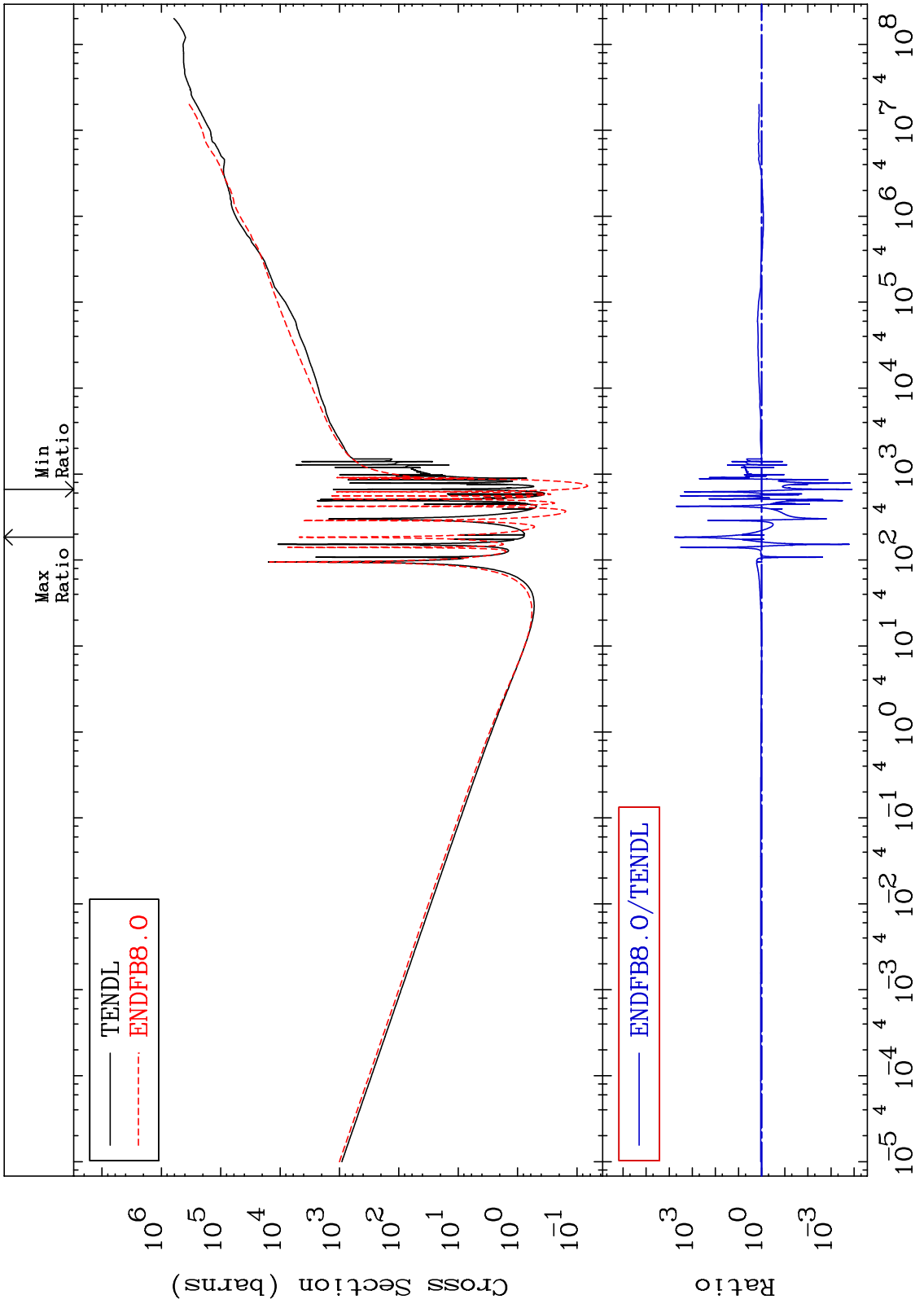
Incident Energy (eV)

62-Sm-148

MAT 6237

Dpa total (eV-barns)
Cross Section

62-Sm-148
-99.99 To 9999. %



37

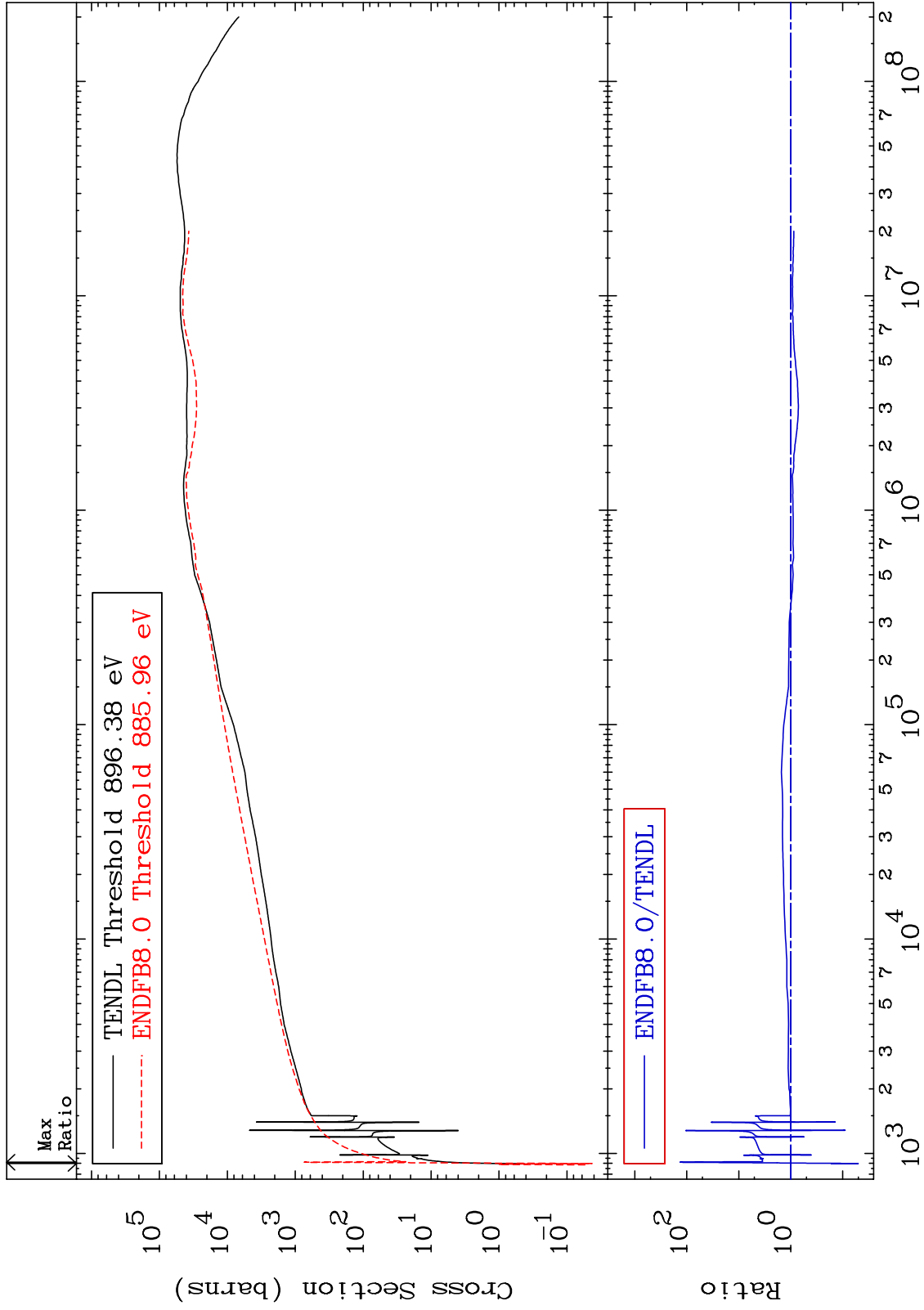
Incident Energy (eV)

62-Sm-148

MAT 6237

Dpa elastic (mt2)
Cross Section

62-Sm-148
-95.02 To 9999. %



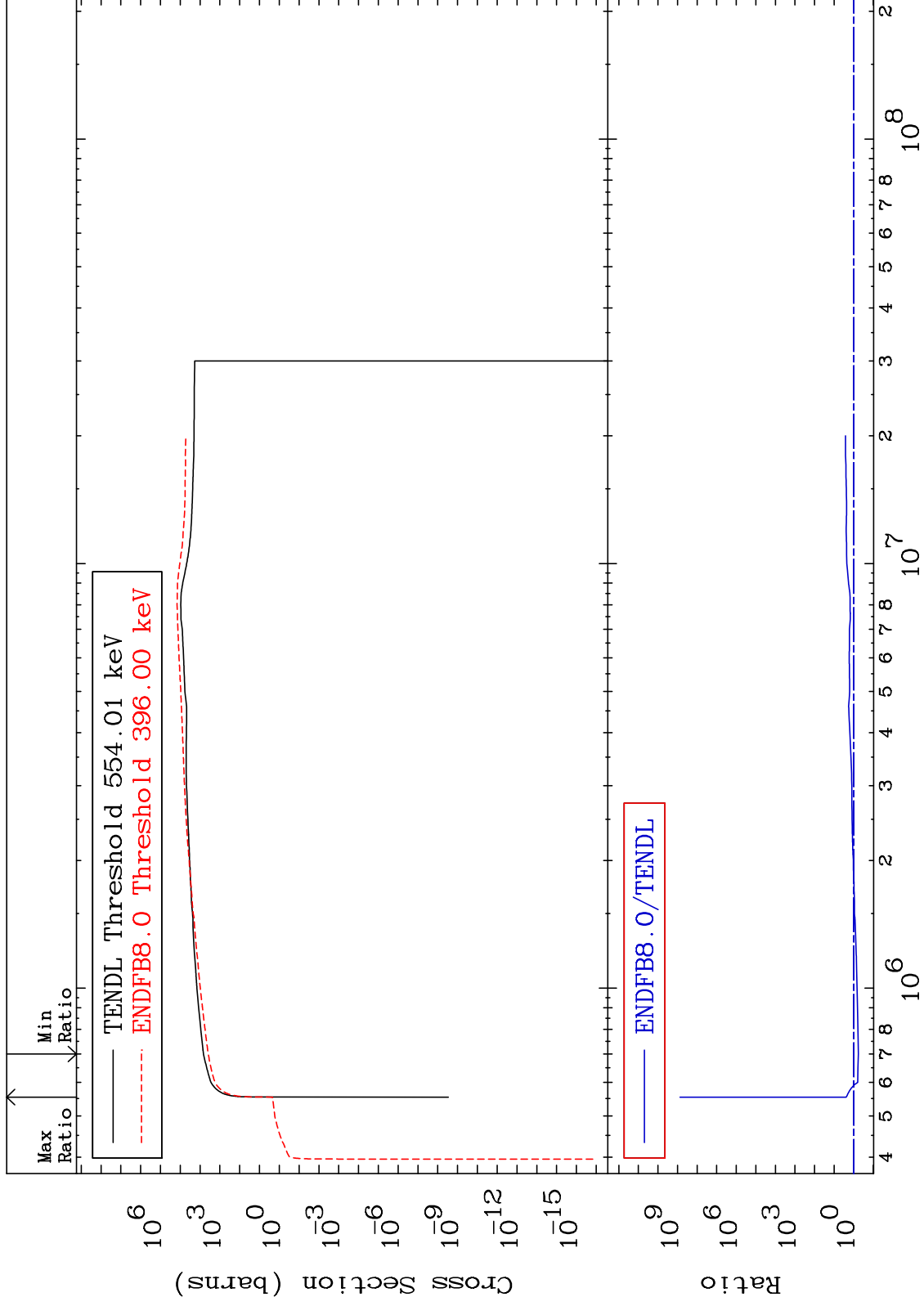
38

62-Sm-148

MAT 6237

Dpa inelastic (mt51-91)
Cross Section

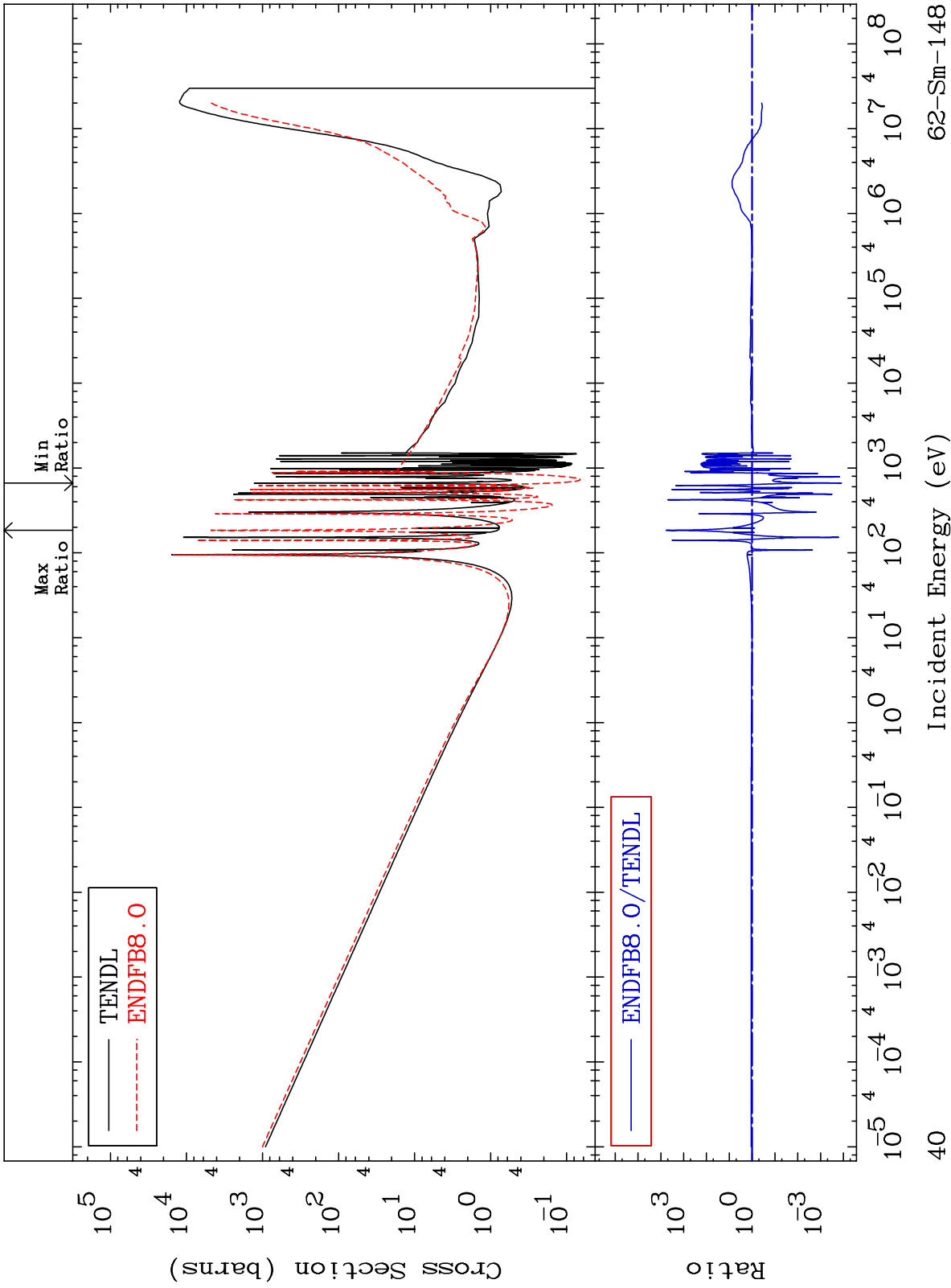
62-Sm-148
-42.37 To 9999. %



MAT 6237

Dpa disappearance (mt102 -120)
Cross Section

62-Sm-148
-99.99 To 9999. %



40

Incident Energy (eV)

62-Sm-148