

Program Complot
(Version 2018-1)

by

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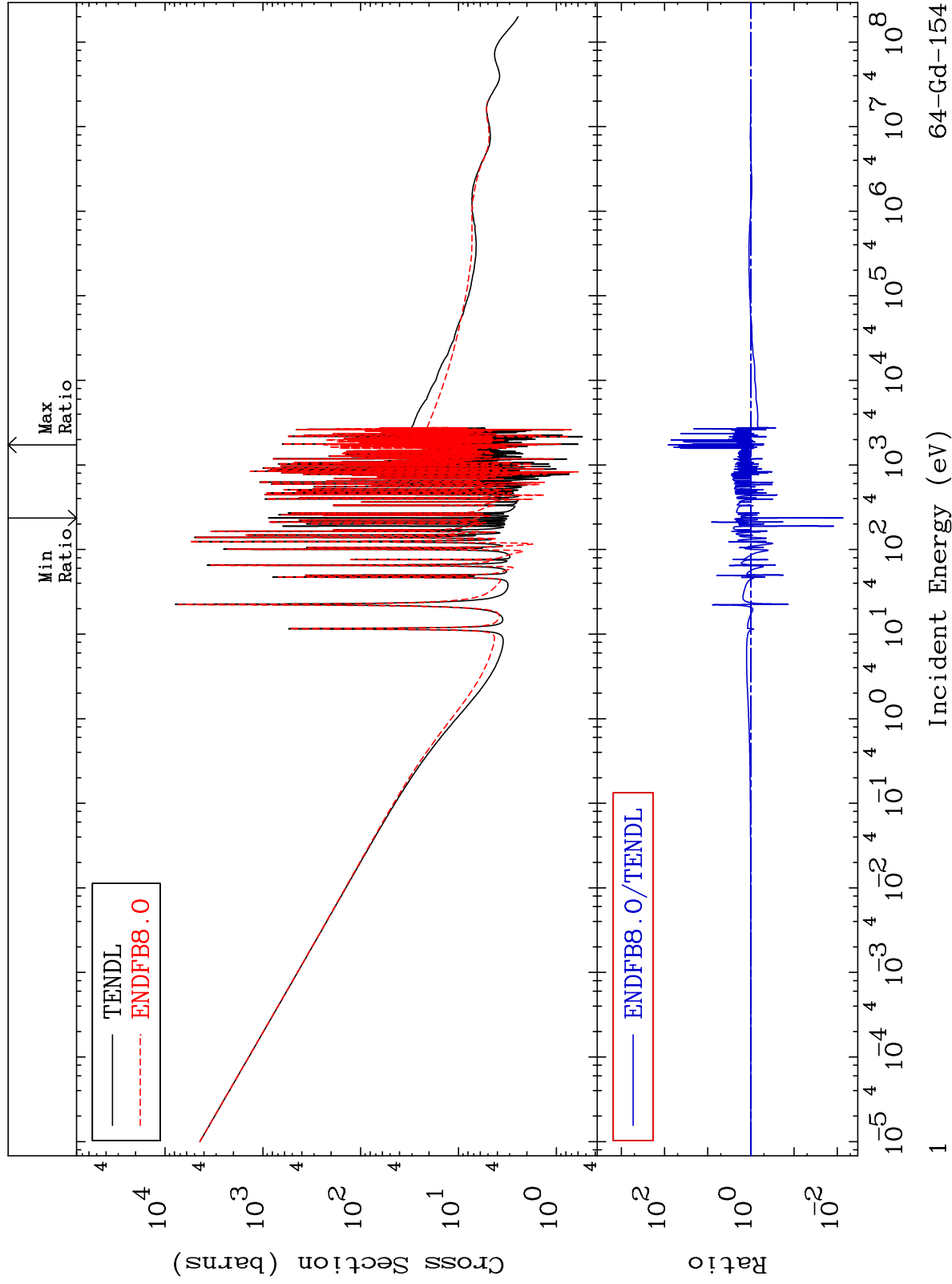
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6431

Total
Cross Section

64-Gd-154
-99.26 To 8201. %



64-Gd-154

Incident Energy (eV)

1

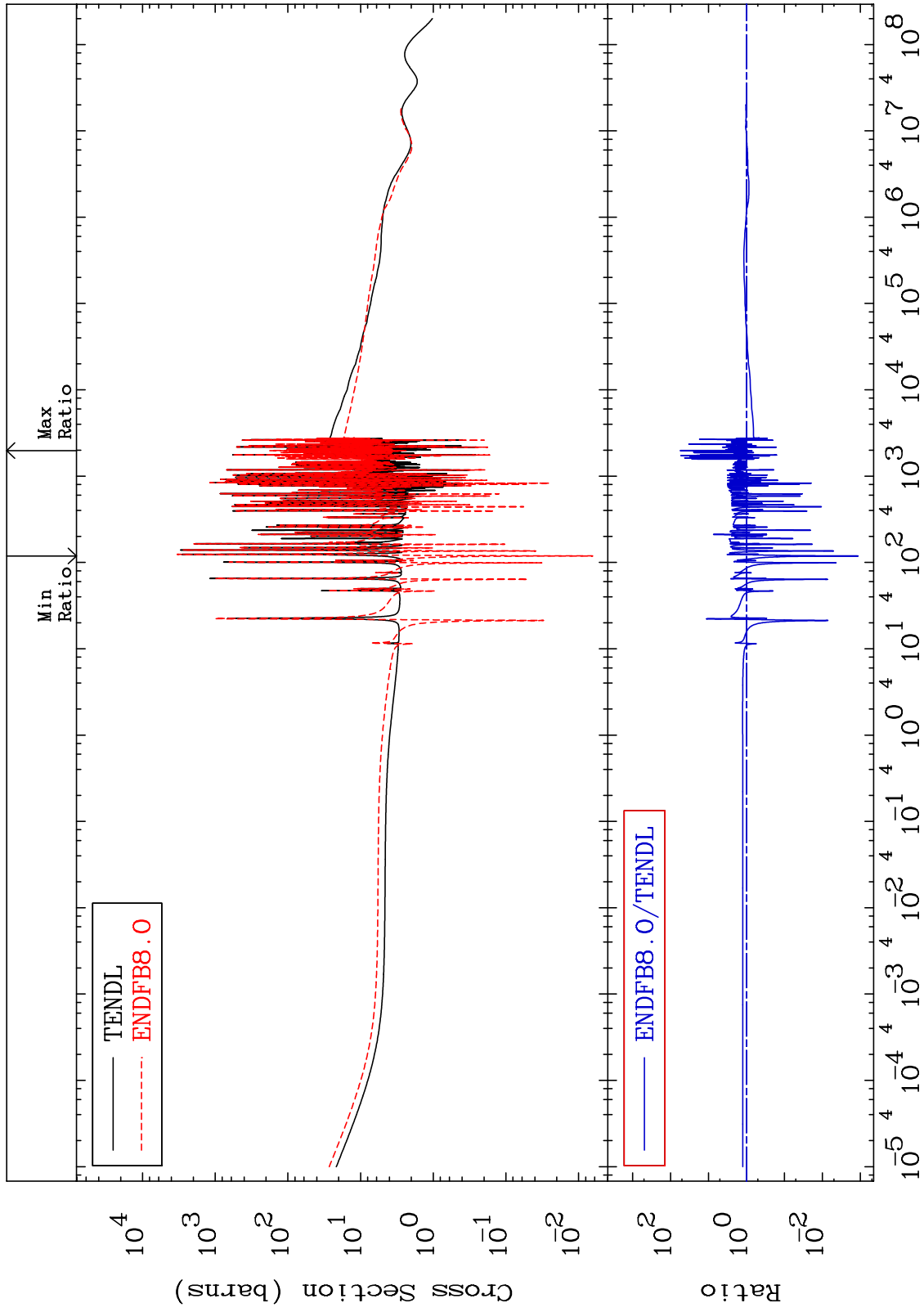
MAT 6431

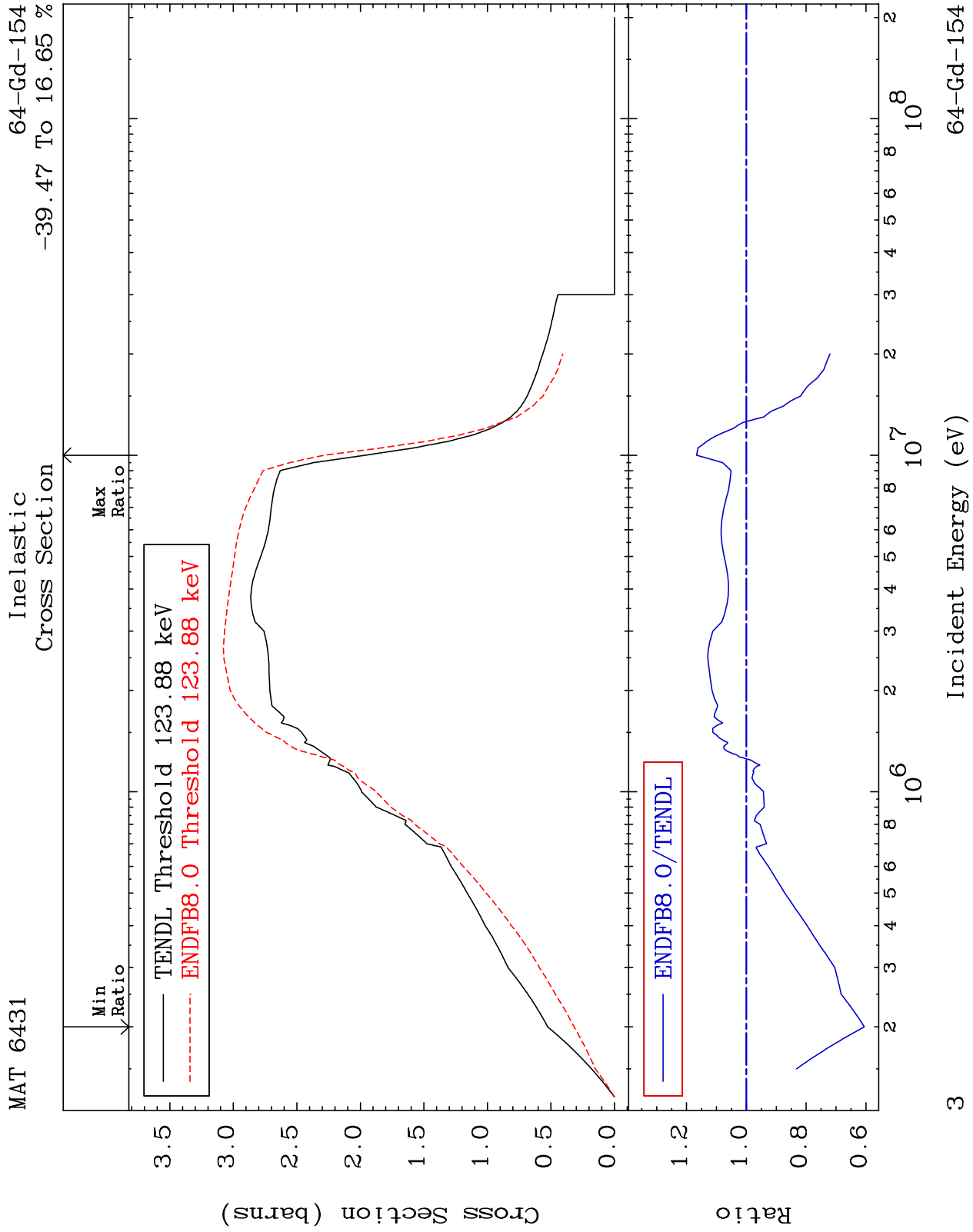
Elastic

64-Gd-154

Cross Section

-99.89 To 5538. %





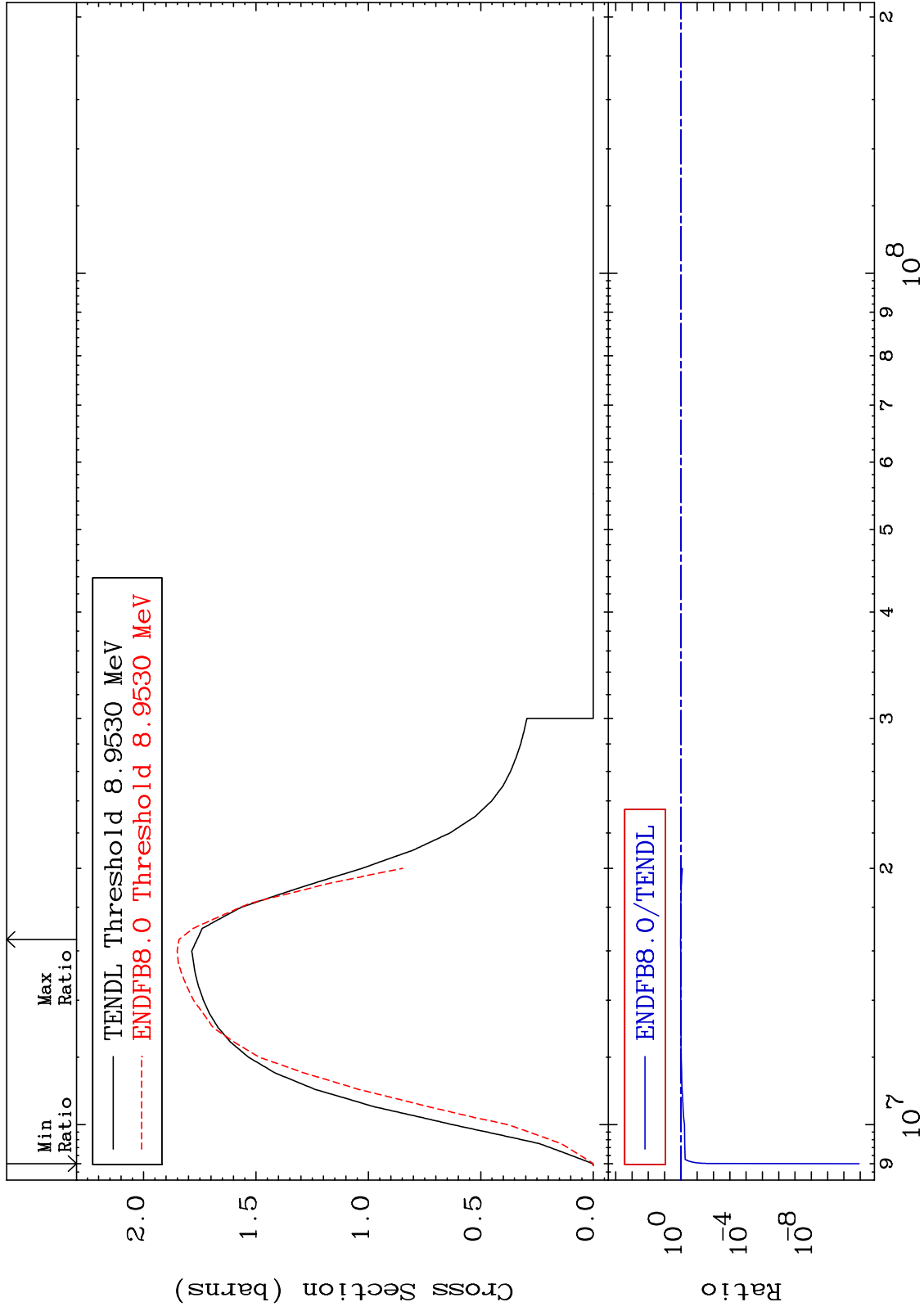
MAT 6431

(n,2n)

64-Gd-154

Cross Section

-100.0 To 4.567 %



4

Incident Energy (eV)

64-Gd-154

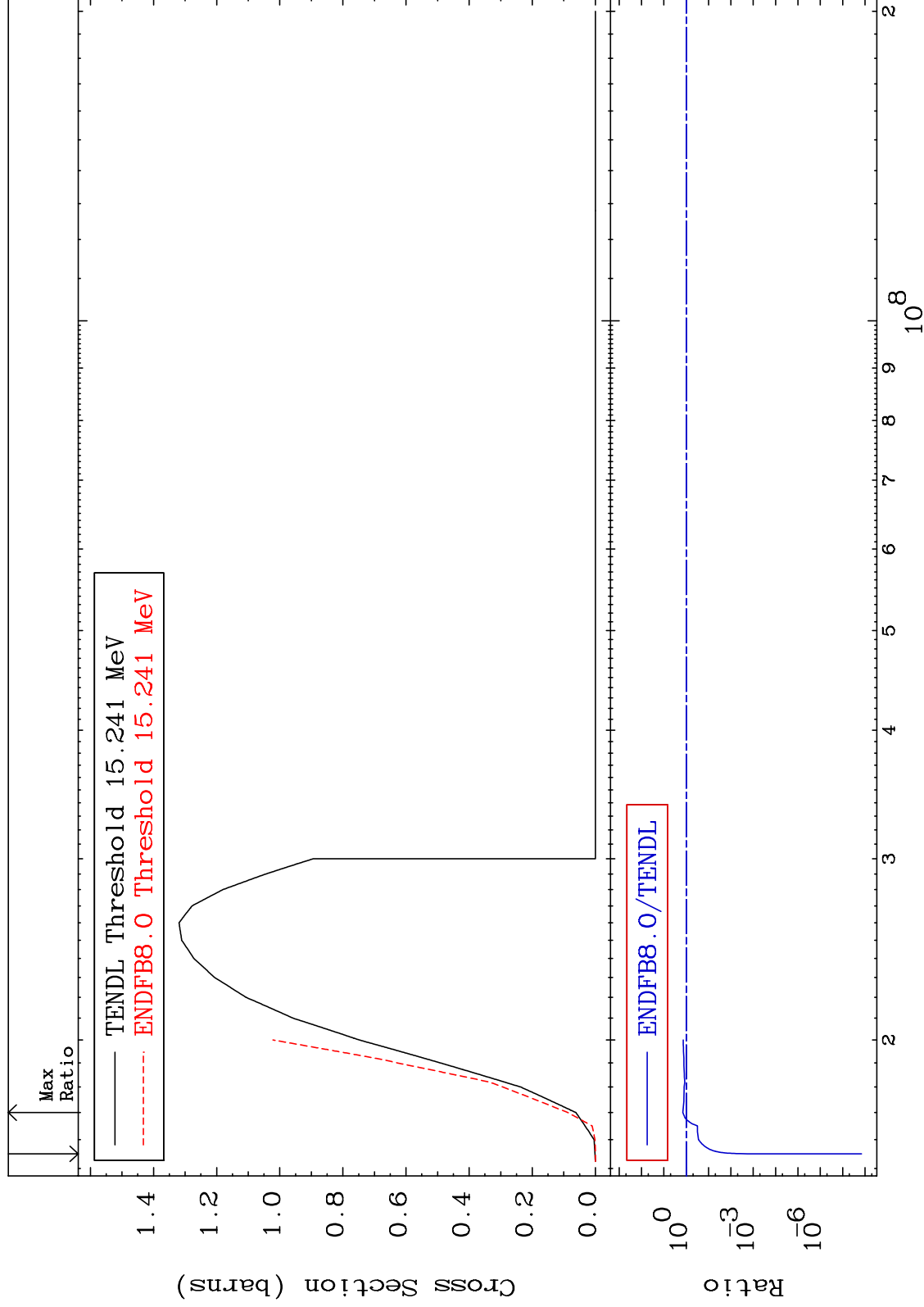
MAT 6431

(n,3n)

64-Gd-154

Cross Section

-100.0 To 41.53 %



5

Incident Energy (eV)

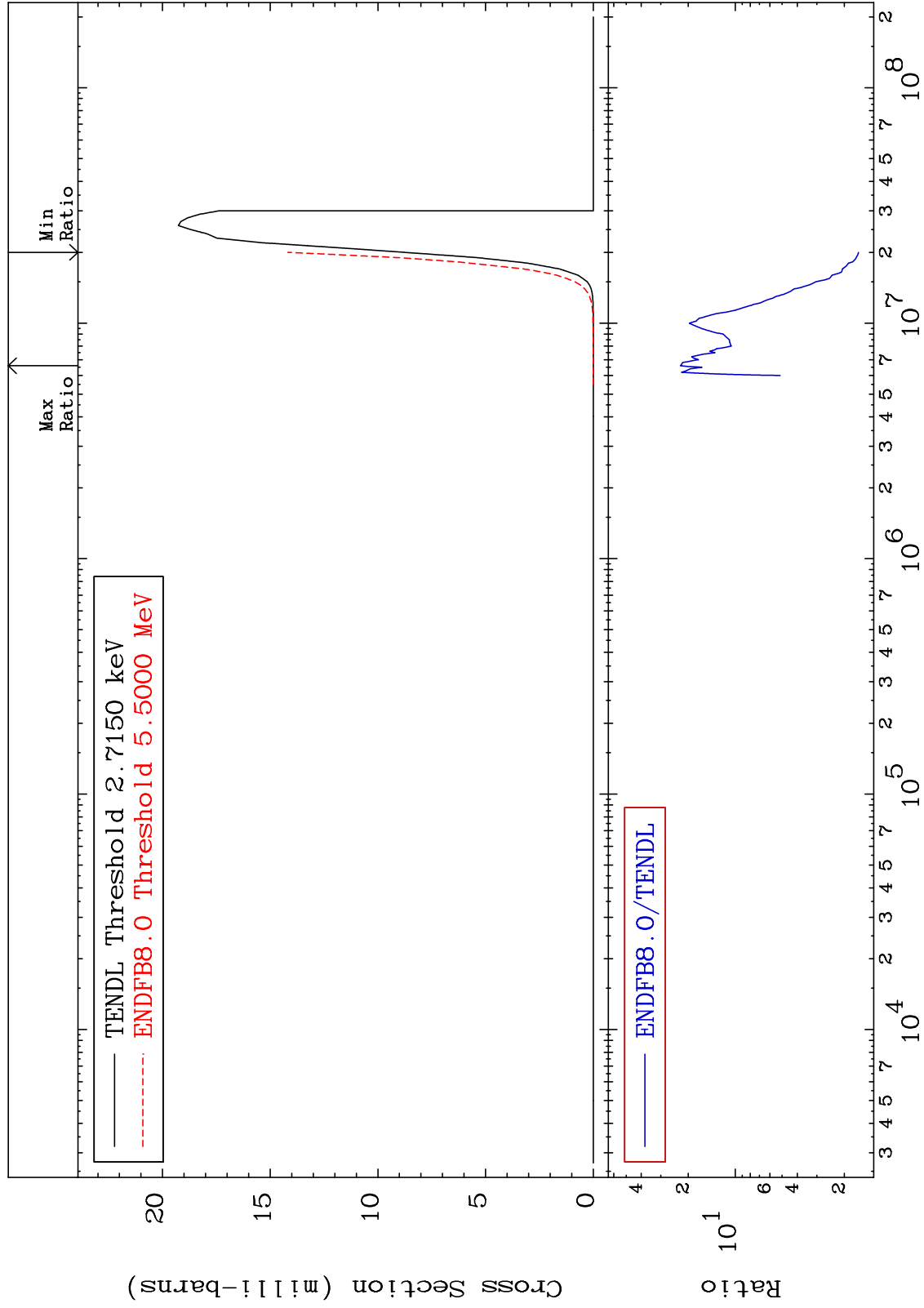
64-Gd-154

MAT 6431

(n,n') α

Cross Section

64-Gd-154
62.08 To 2142. %



6

64-Gd-154

64-Gd-154

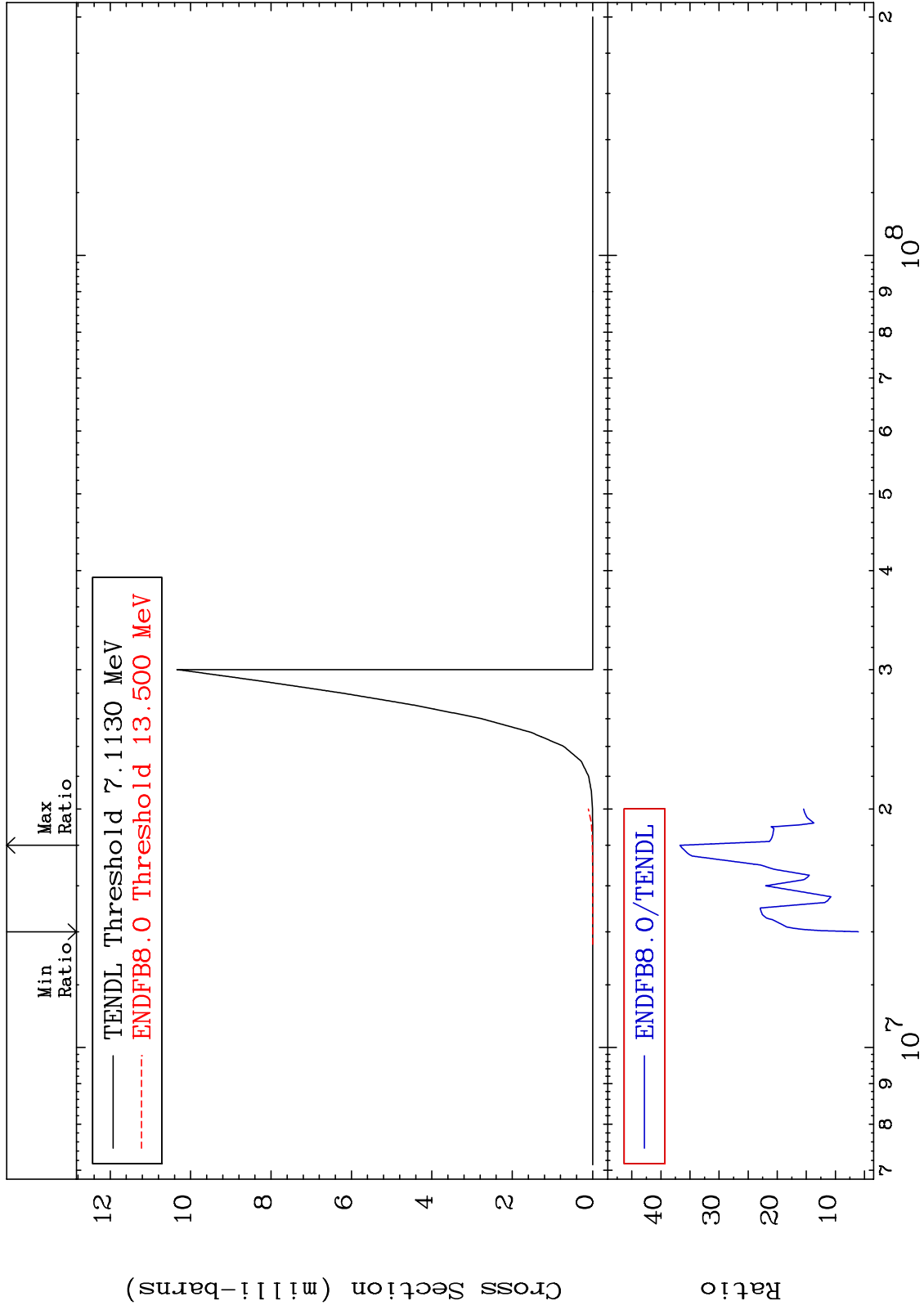
MAT 6431

(n,2n) α

64-Gd-154

504.8 To 3571. %

Cross Section



64-Gd-154

64-Gd-154

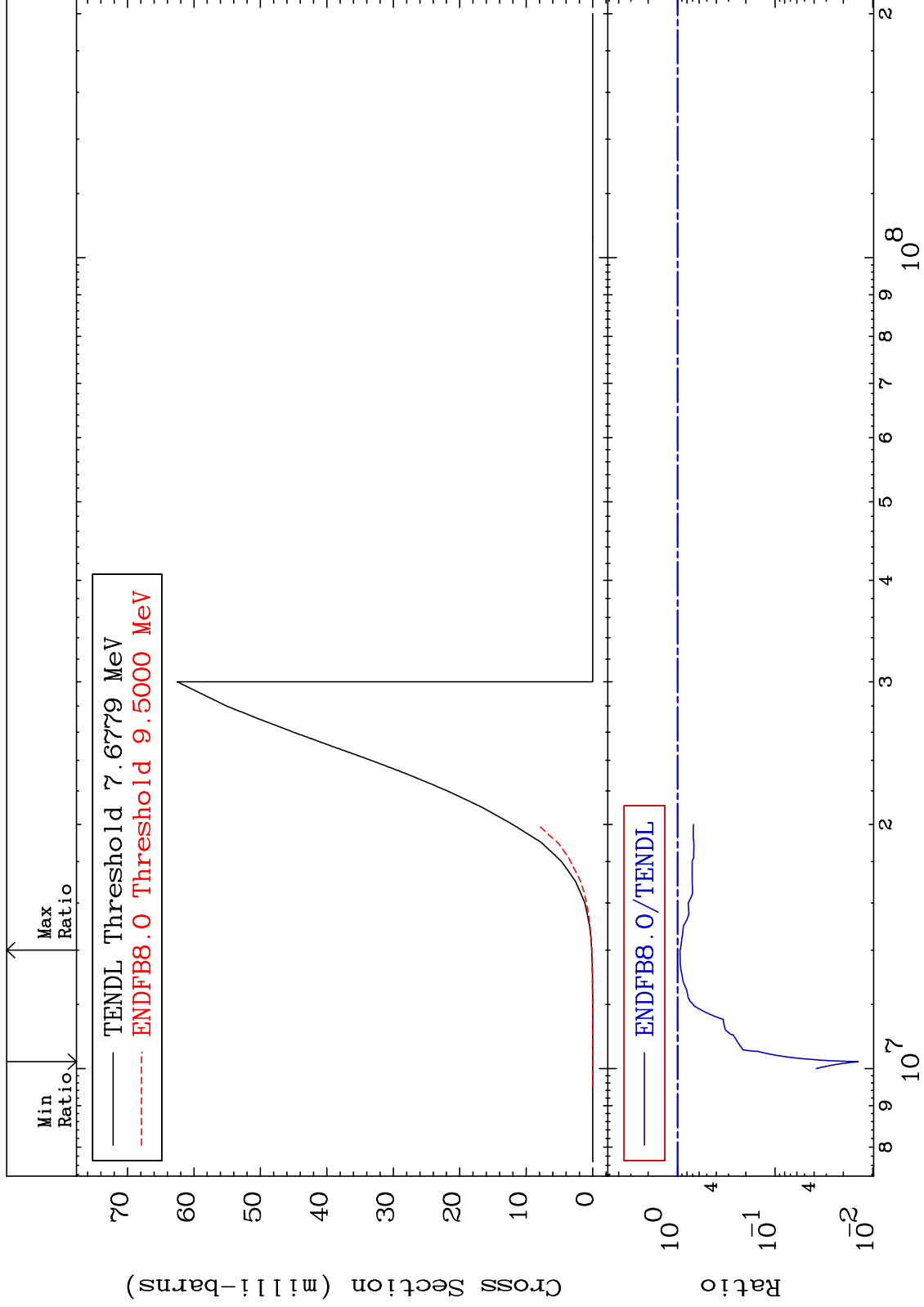
MAT 6431

(n,n') p

64-Gd-154

Cross Section

-98.60 To -5.838%



8

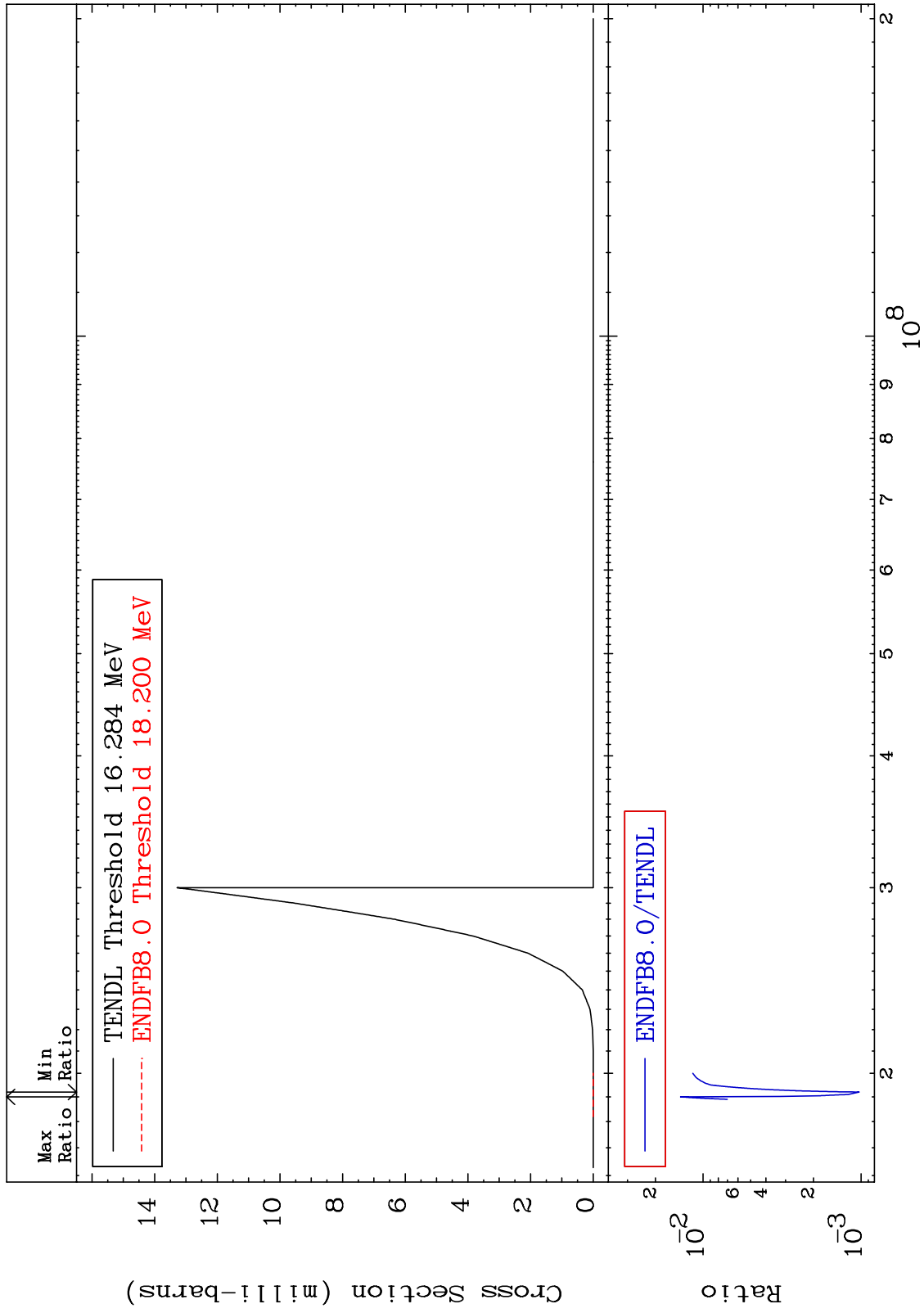
Incident Energy (eV)

64-Gd-154

MAT 6431

(n,2n) p
Cross Section

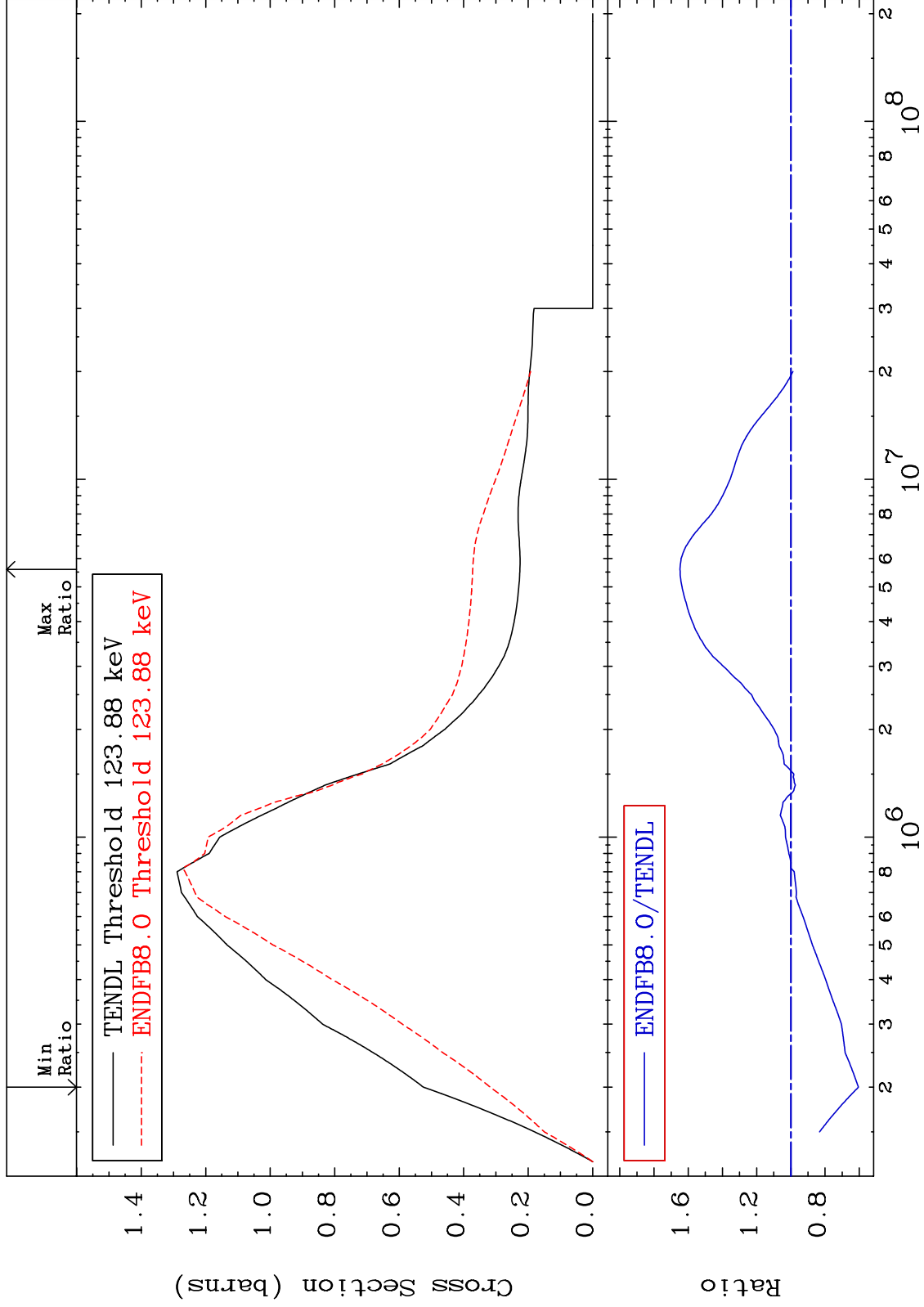
64-Gd-154
-99.90 To -98.61%



MAT 6431

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

64-Gd-154
-39.47 To 64.81 %



10

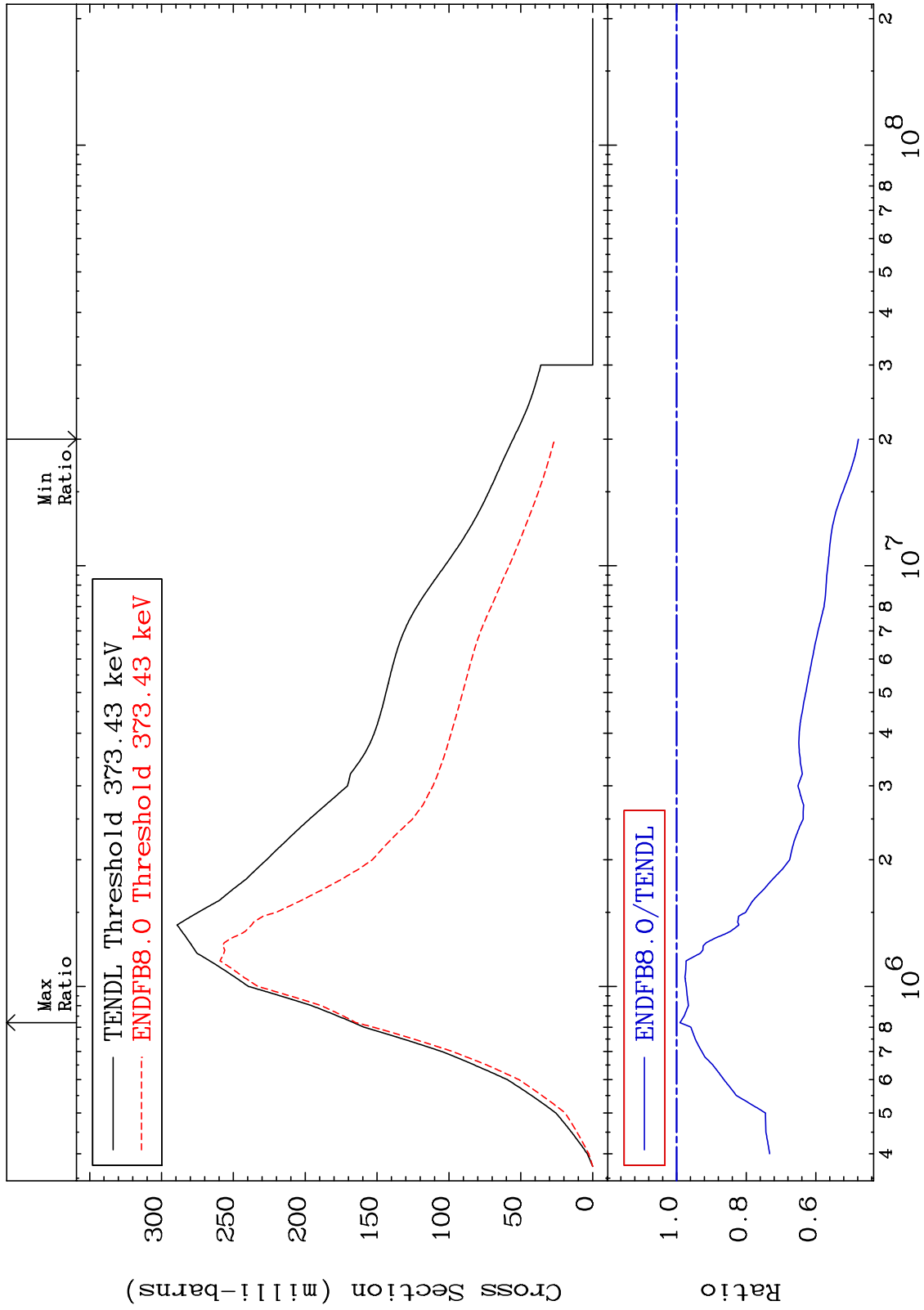
Incident Energy (eV)

64-Gd-154

MAT 6431

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

64-Gd-154
-52.22 To -0.988%



11

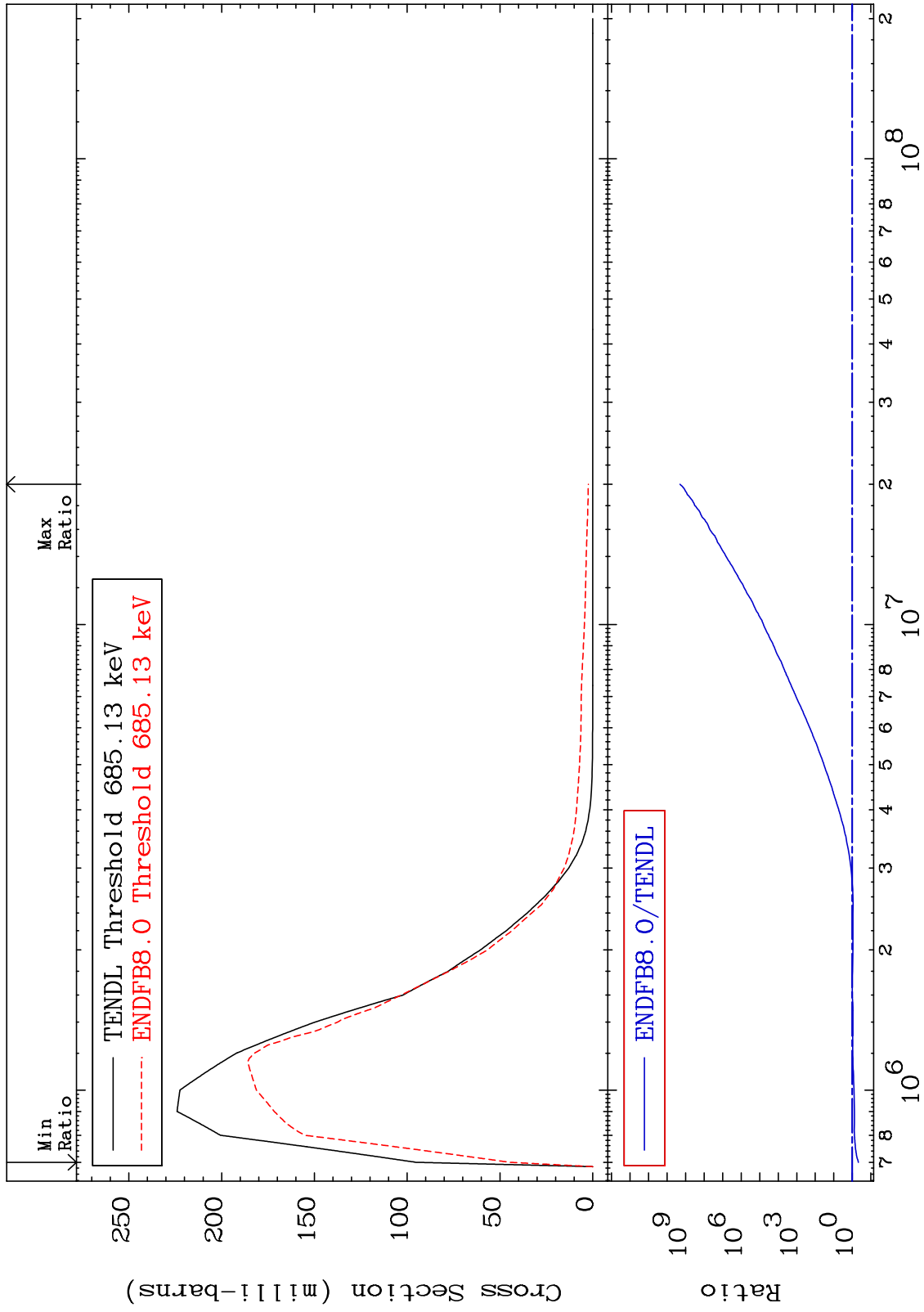
Incident Energy (eV)

64-Gd-154

MAT 6431

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

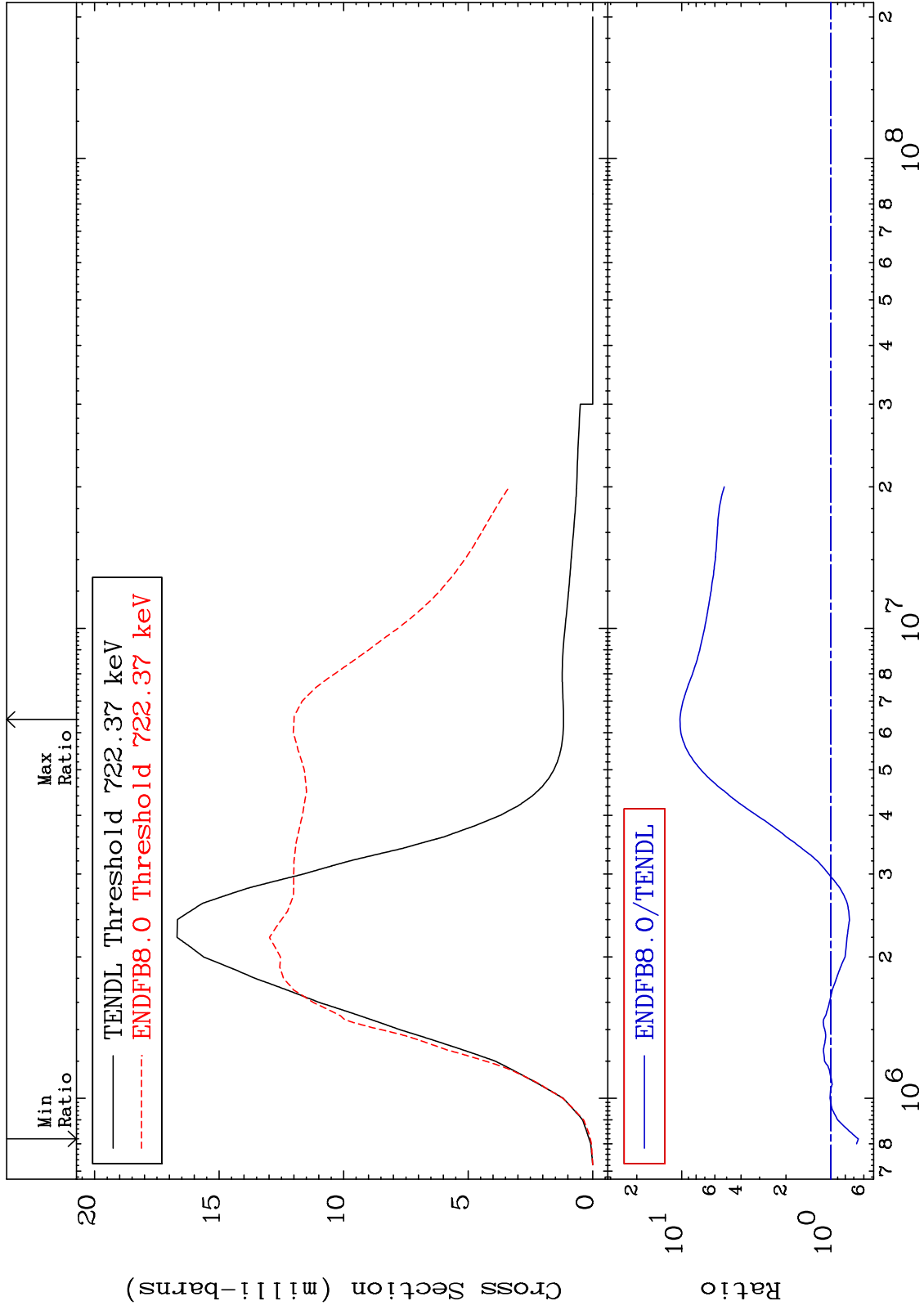
64-Gd-154
-53.09 To 9999. %



MAT 6431

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

64-Gd-154
-34.73 To 925.9 %



13

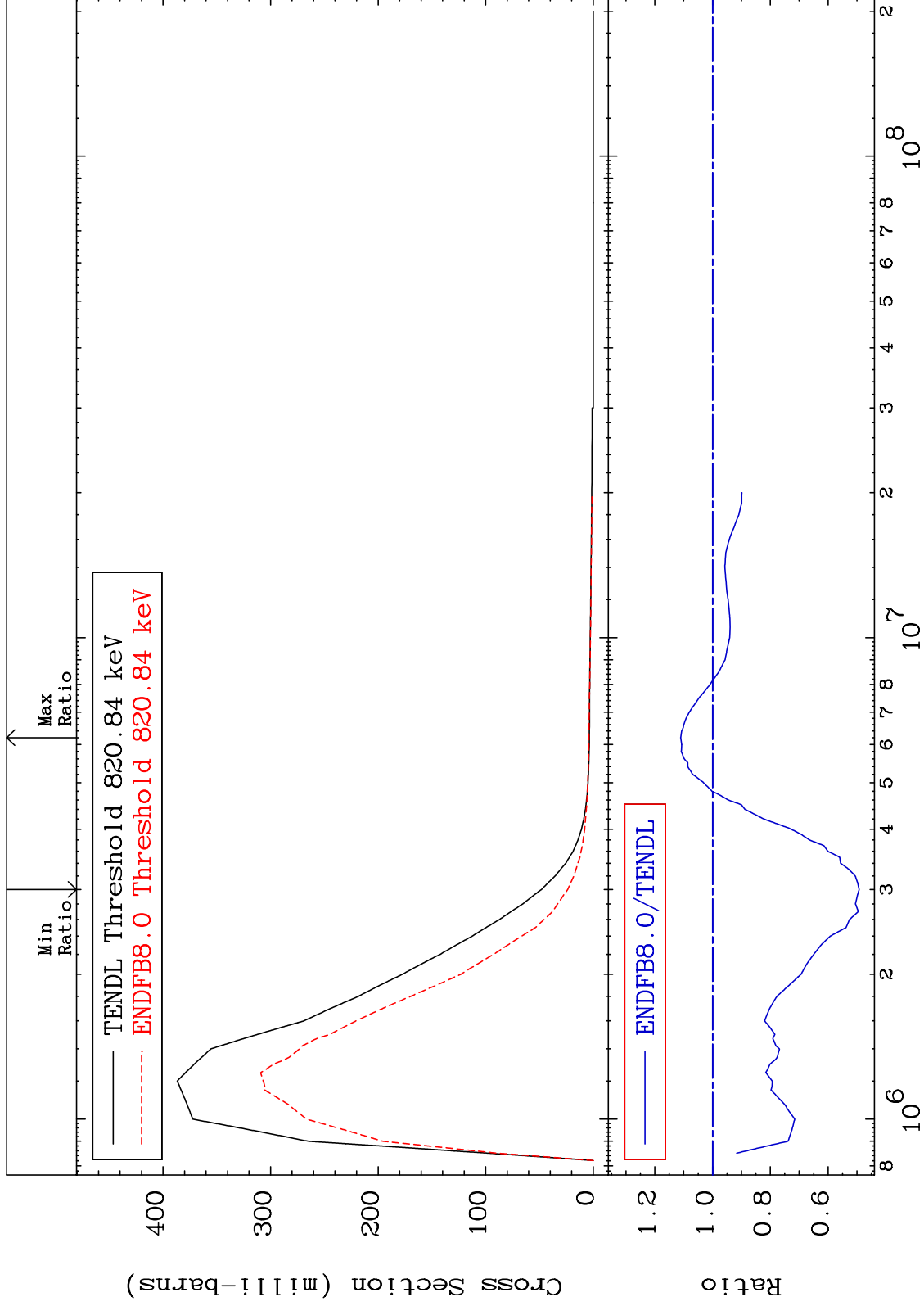
Incident Energy (eV)

64-Gd-154

MAT 6431

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

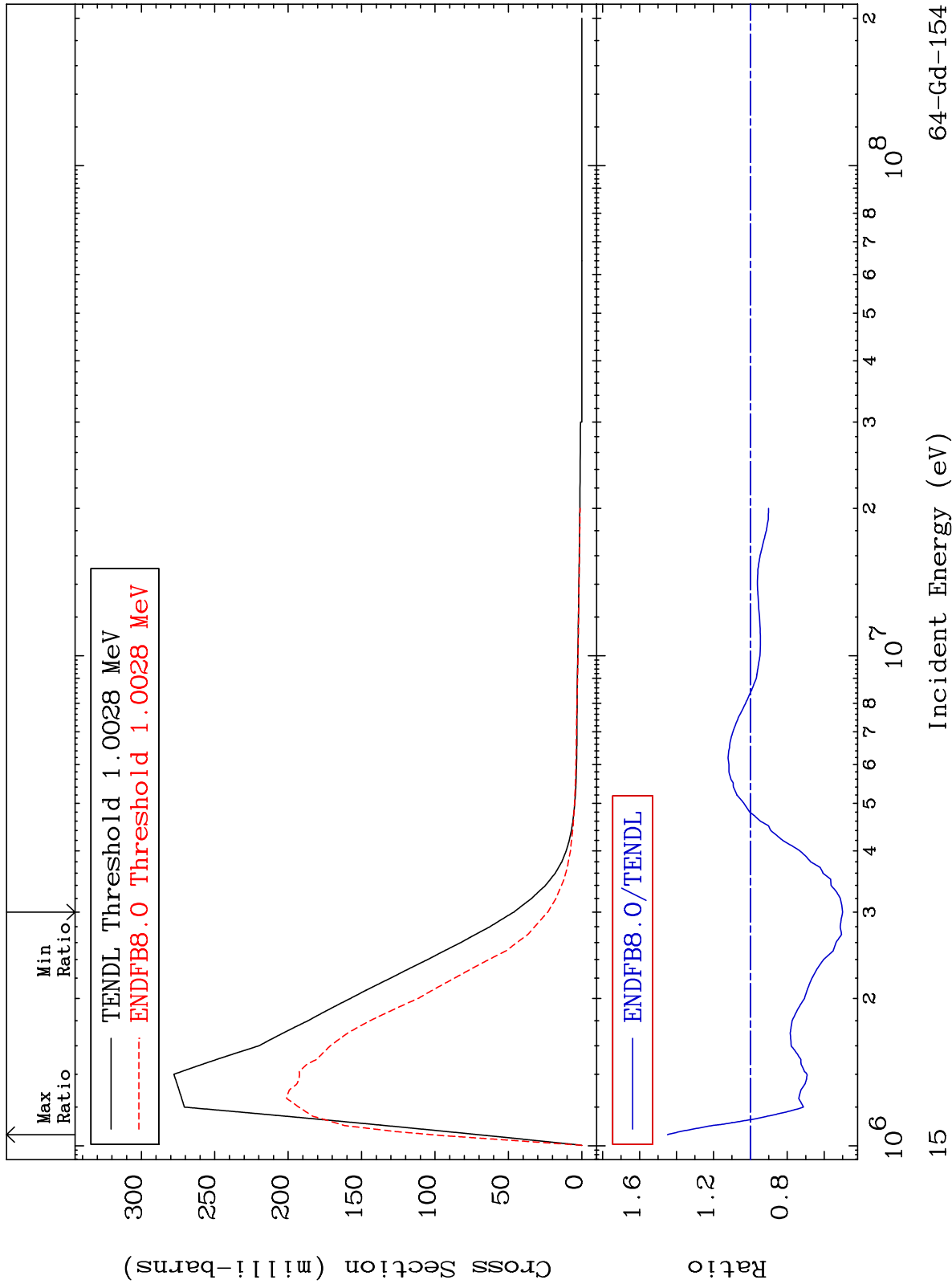
64-Gd-154
-50.77 To 11.07 %



MAT 6431

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

64-Gd-154
-50.02 To 44.84 %



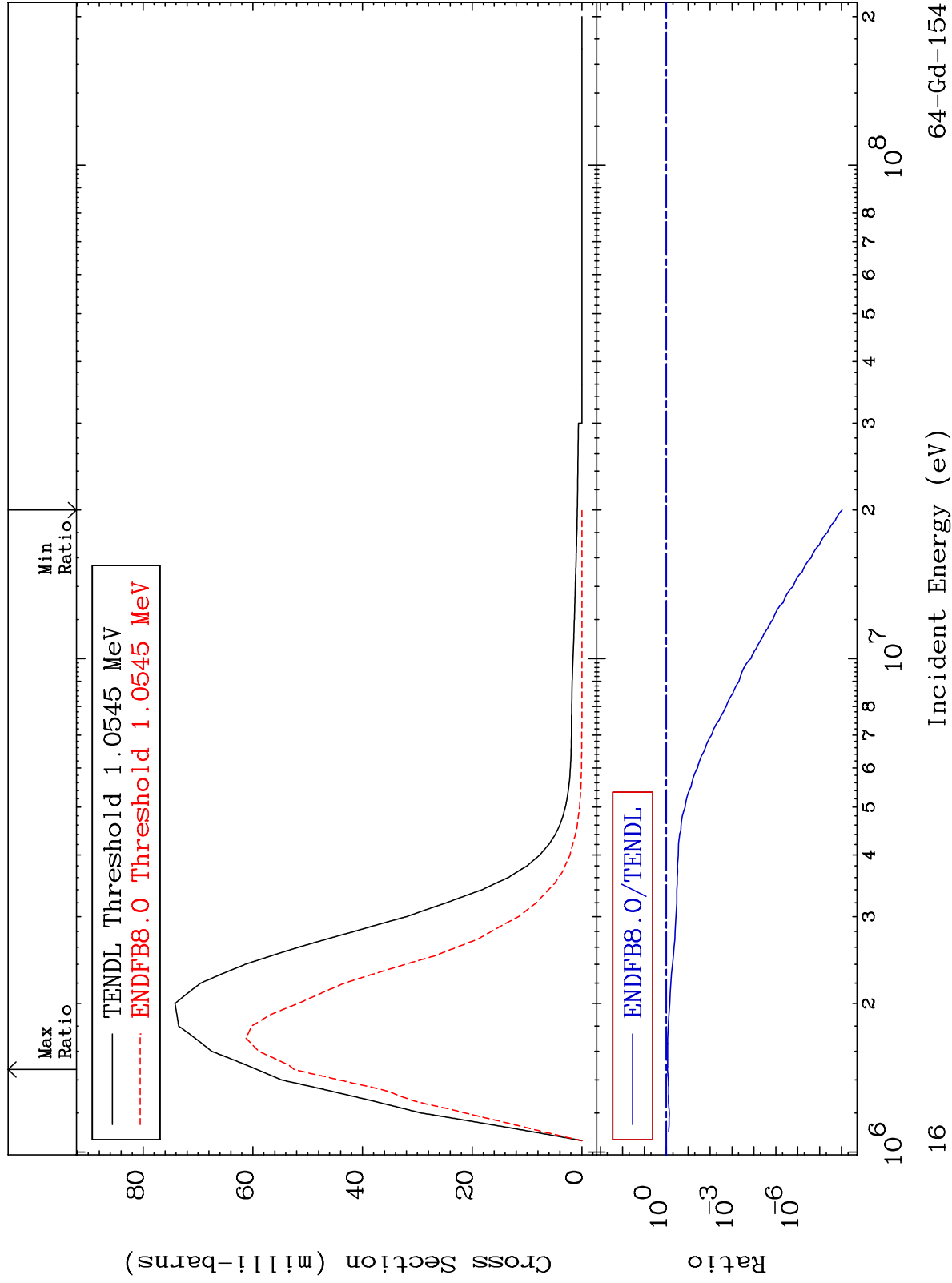
Incident Energy (eV)

64-Gd-154

MAT 6431

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

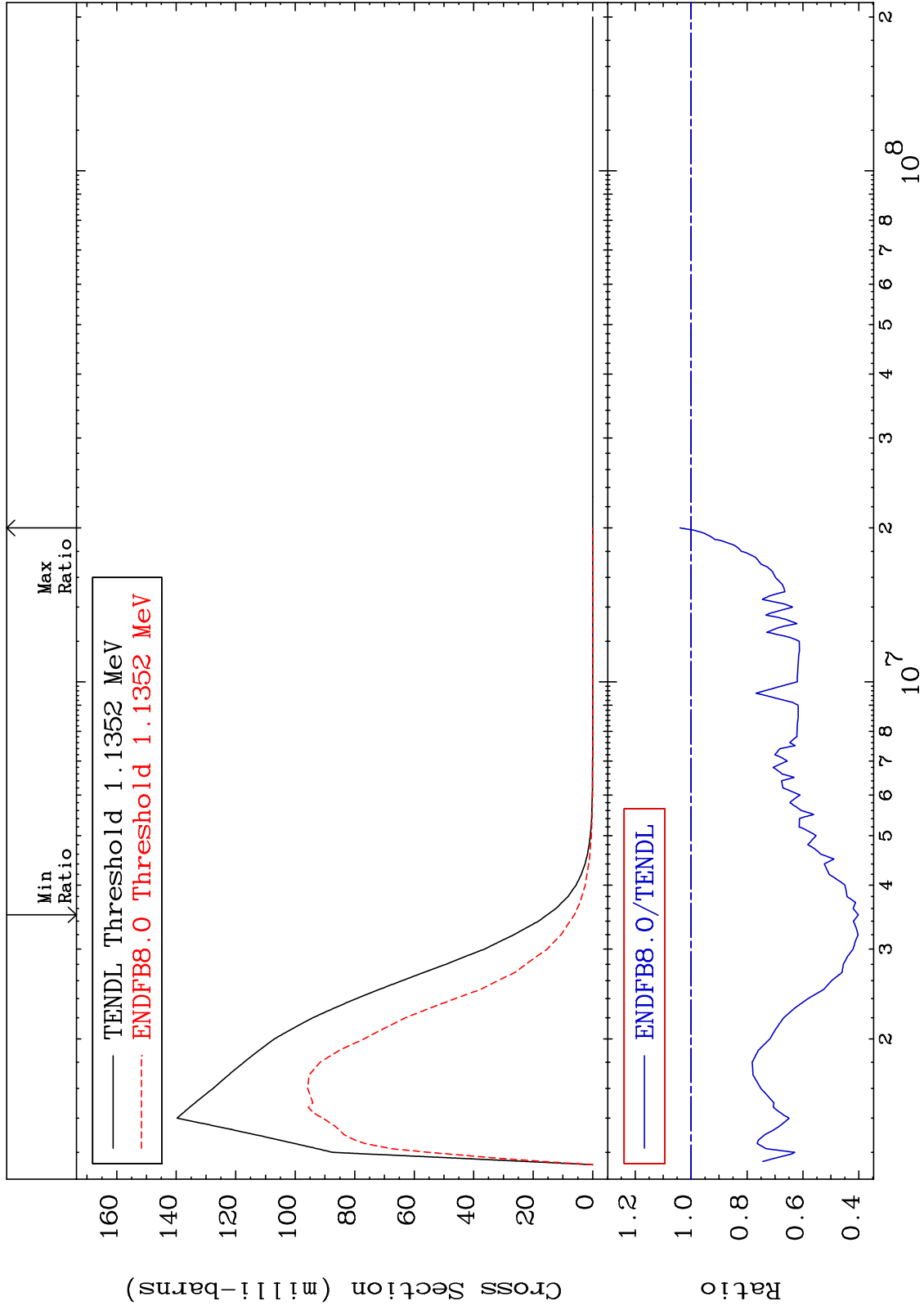
64-Gd-154
-100.0 To -11.42%



MAT 6431

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

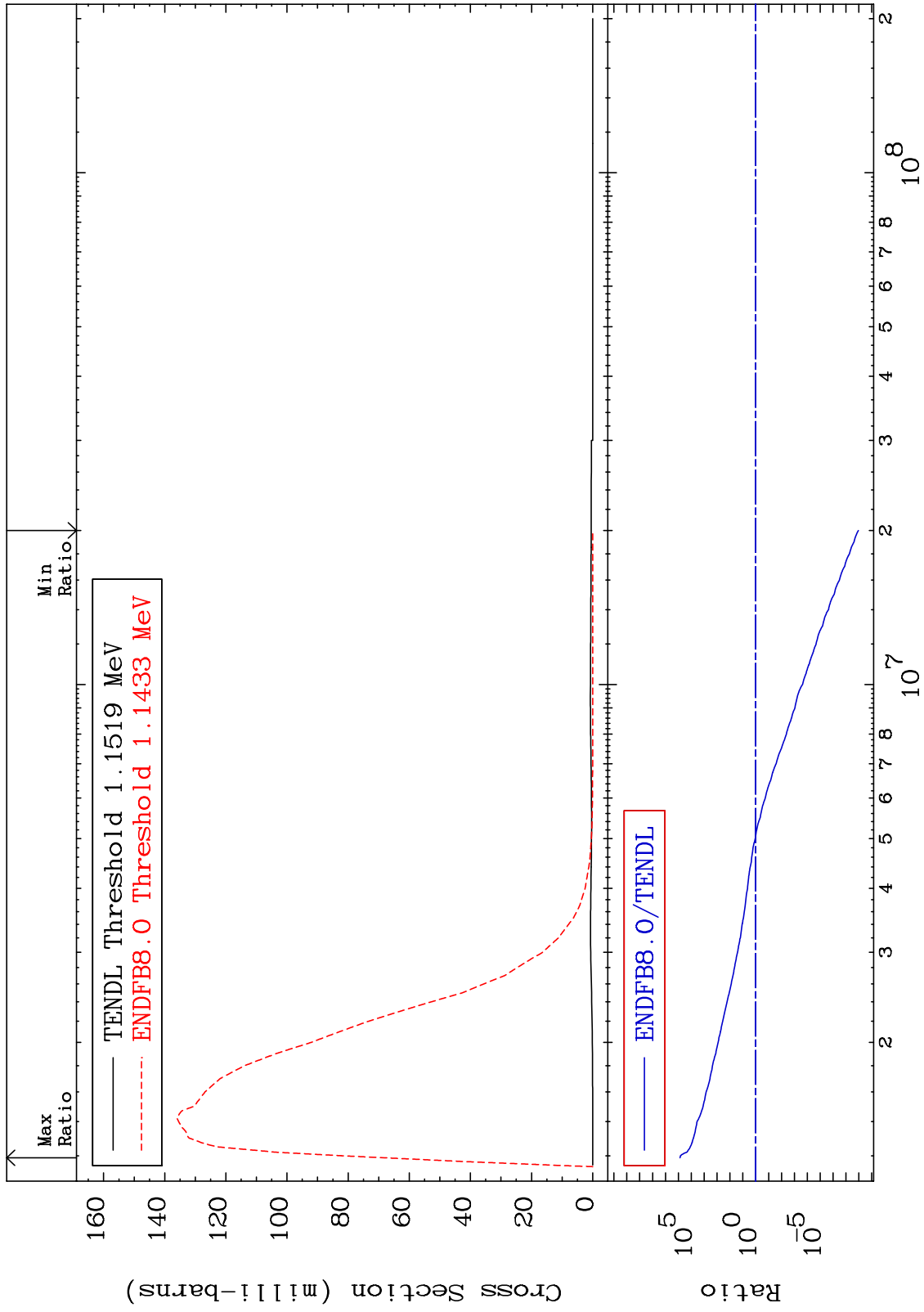
64-Gd-154
-59.87 To 3.987 %



MAT 6431

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

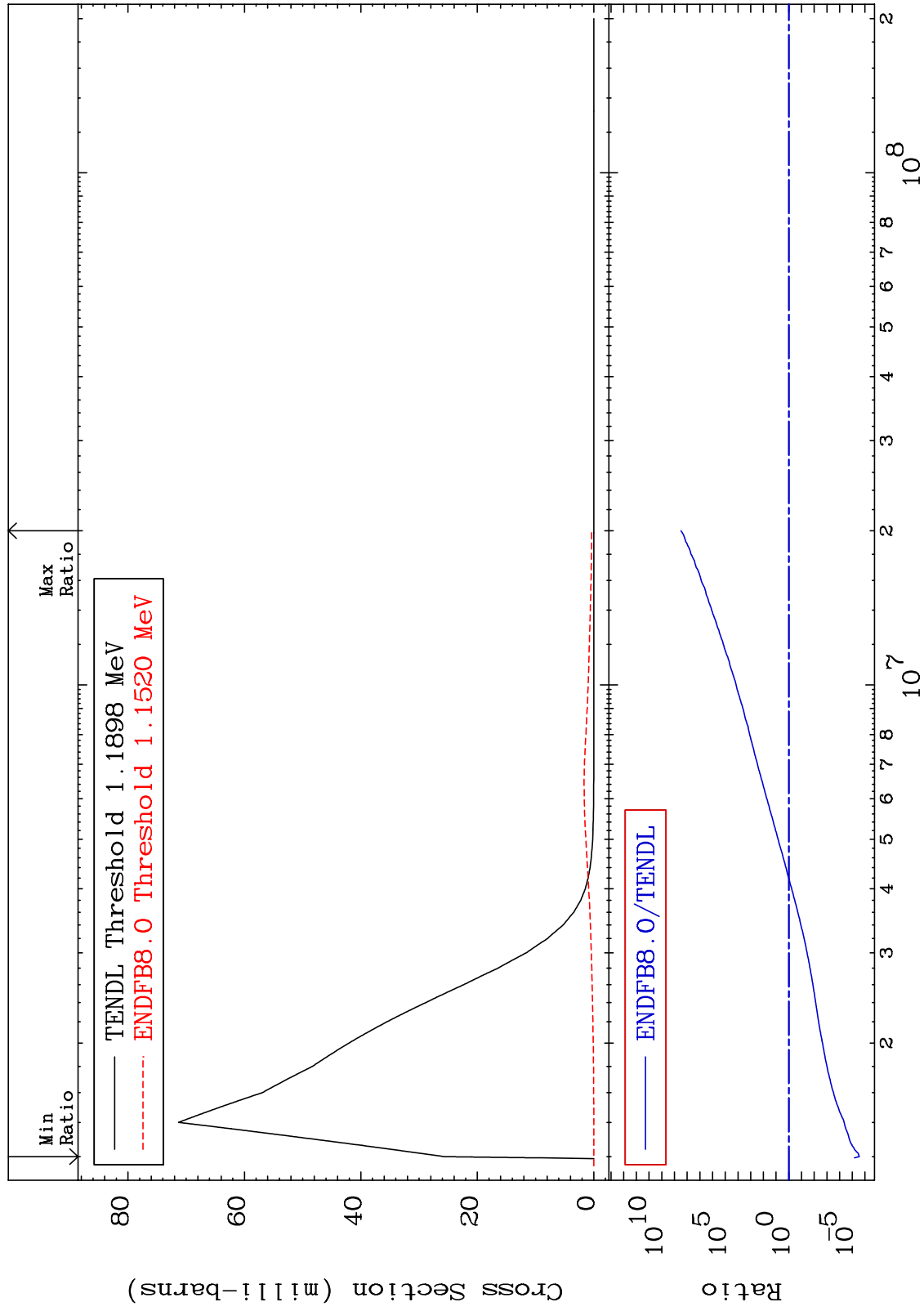
64-Gd-154
-100.0 To 9999. %



MAT 6431

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

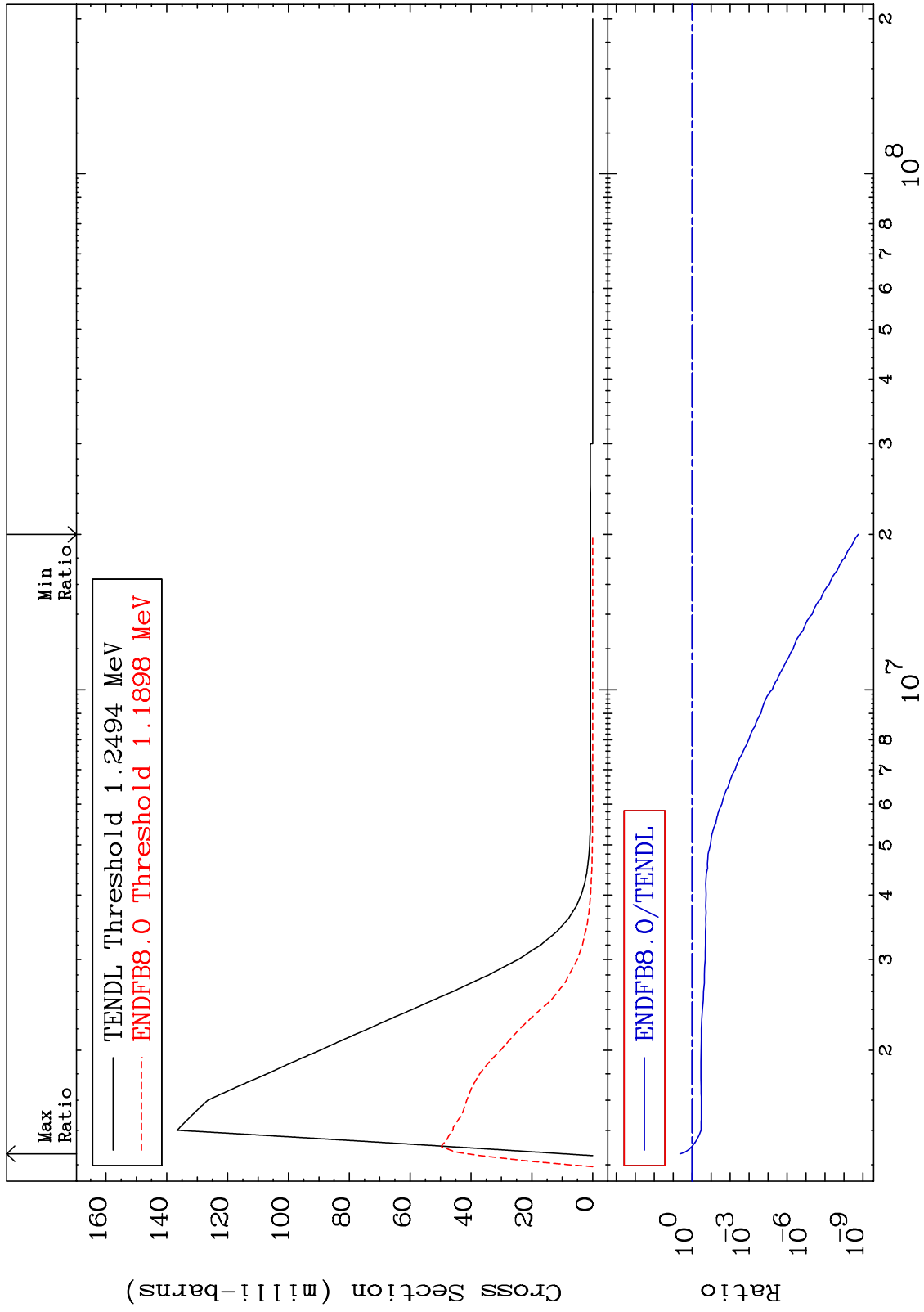
64-Gd-154
-100.0 To 9999. %



MAT 6431

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

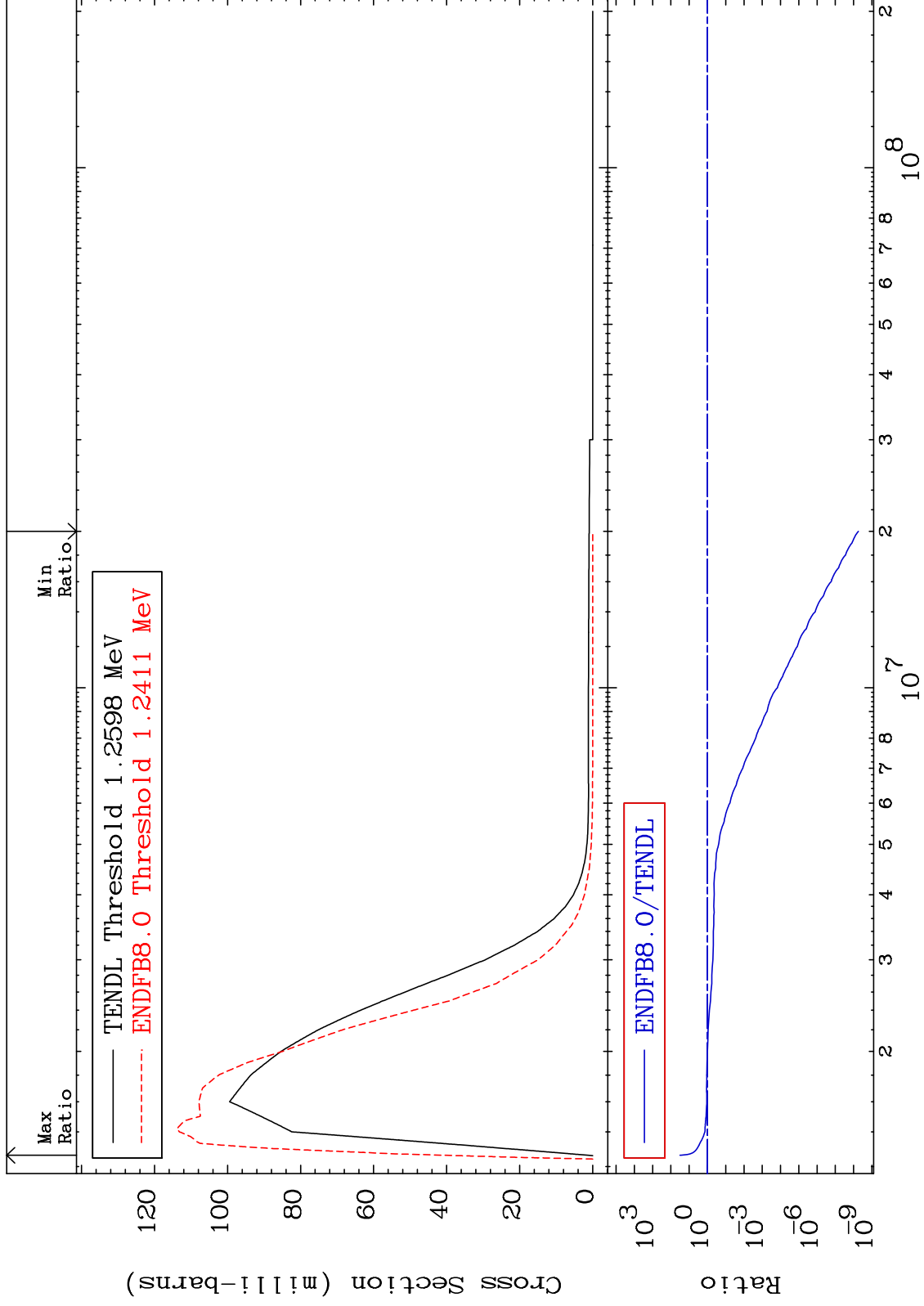
64-Gd-154
-100.0 To 334.7 %



MAT 6431

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

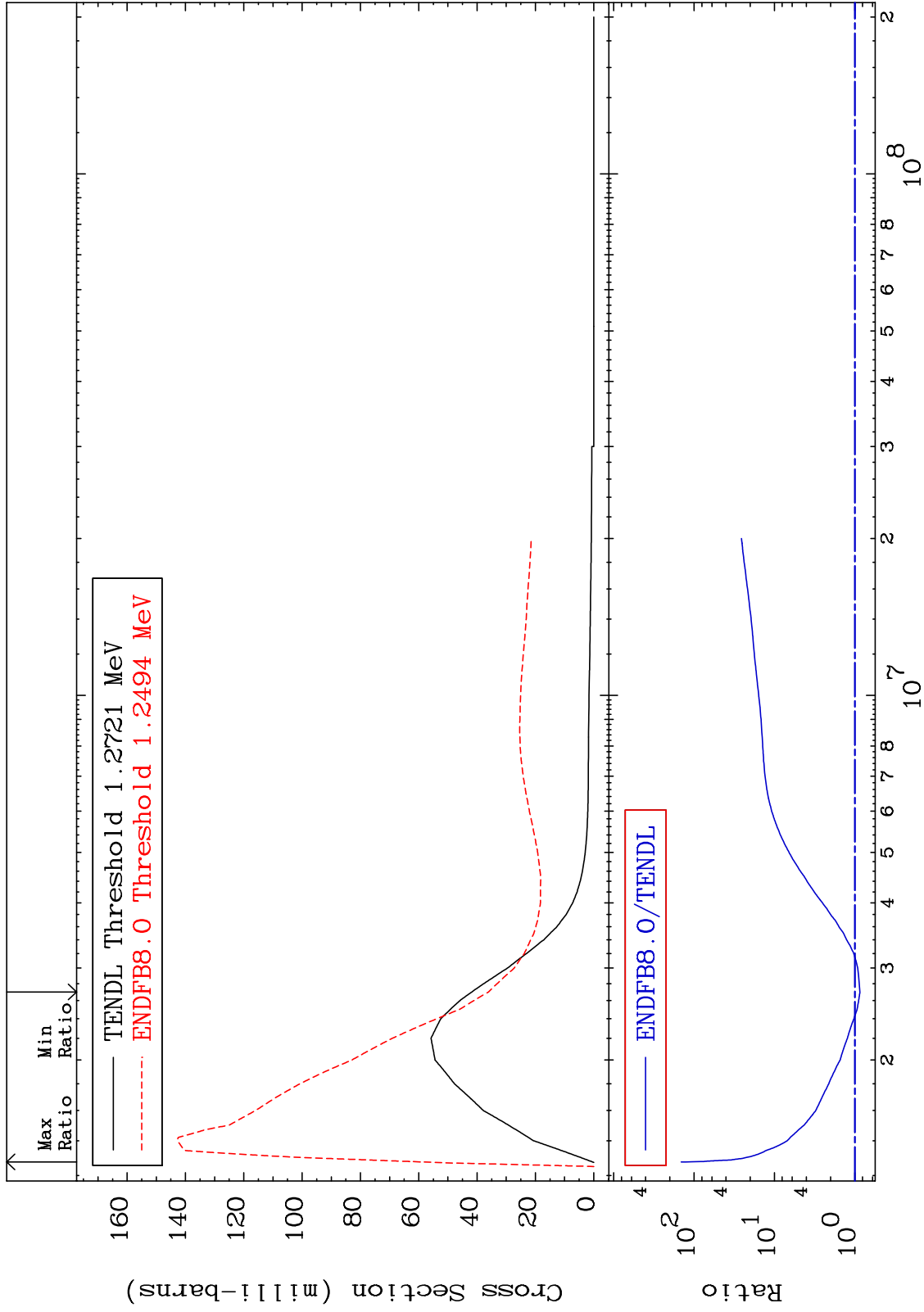
64-Gd-154
-100.0 To 3059. %



MAT 6431

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

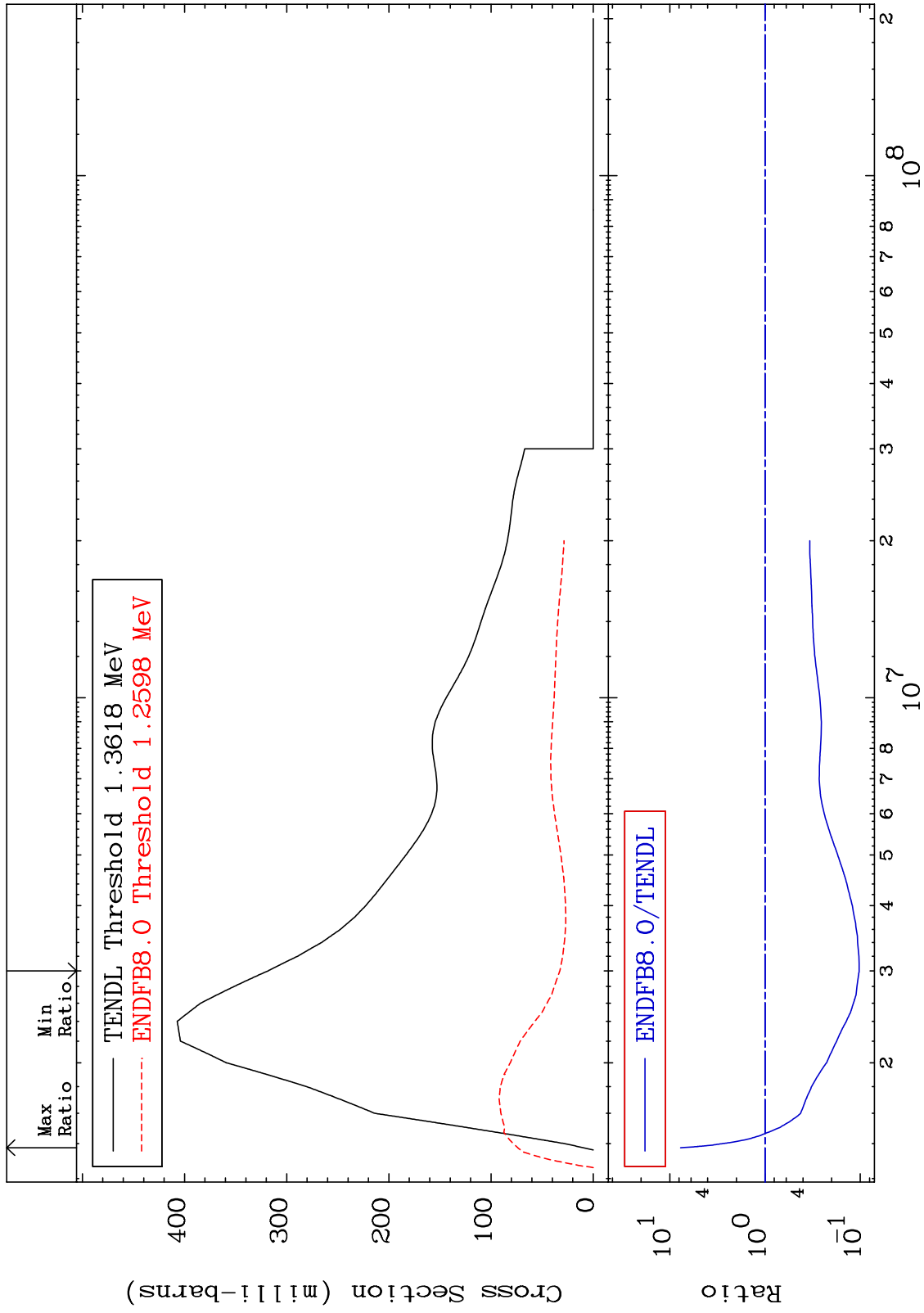
64-Gd-154
-13.64 To 9999. %



MAT 6431

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

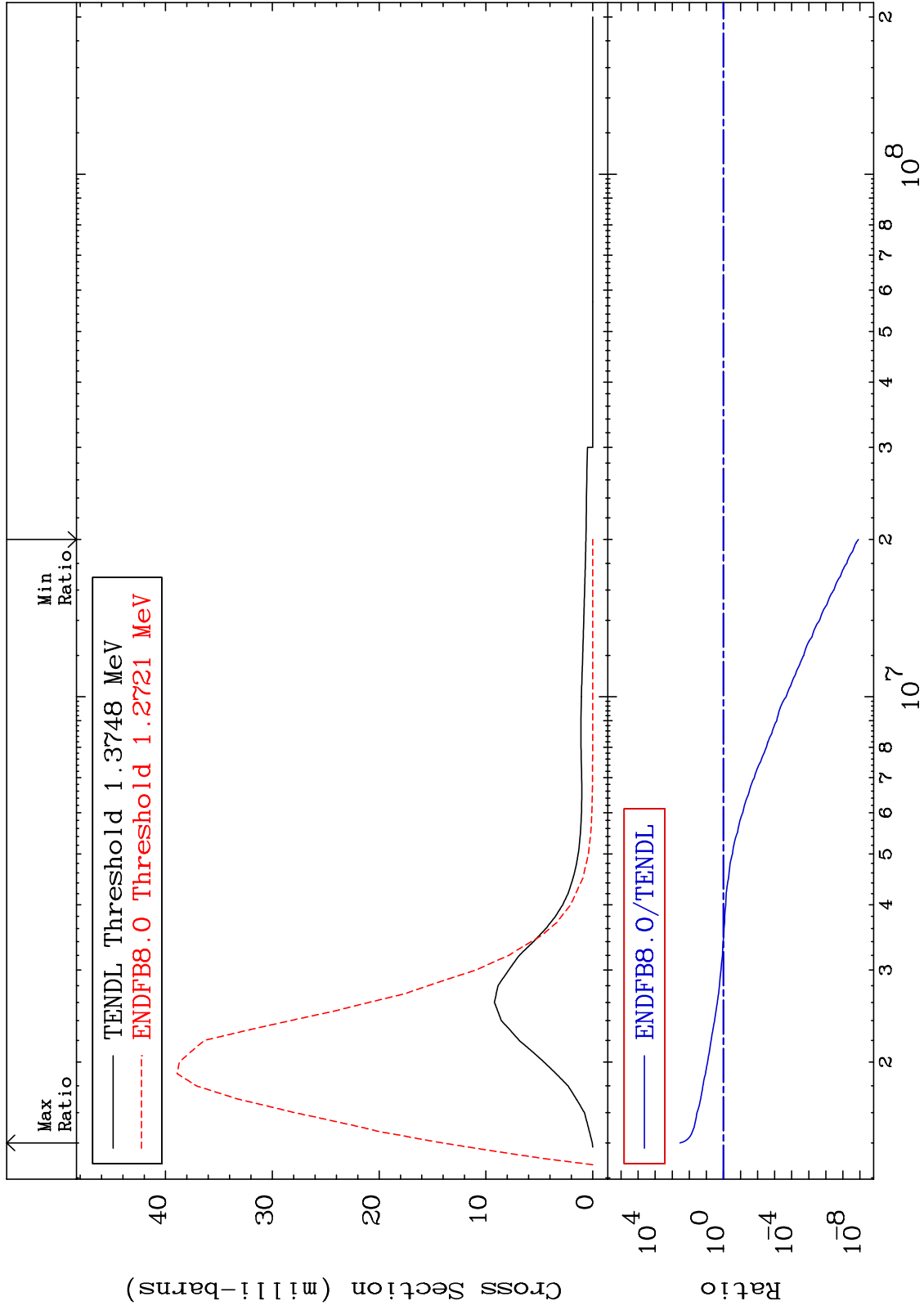
64-Gd-154
-89.73 To 670.0 %



MAT 6431

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

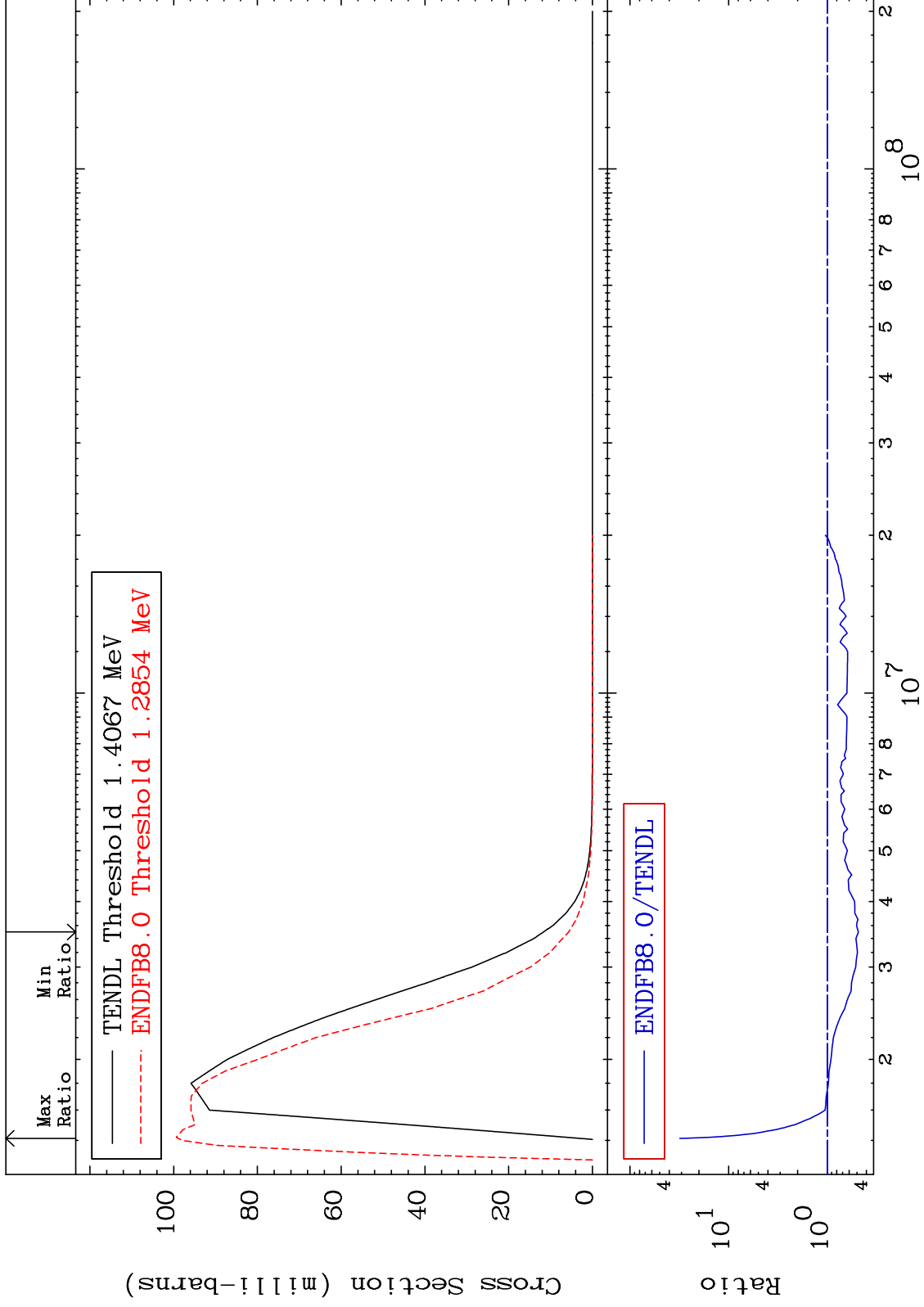
64-Gd-154
-100.0 To 9999. %



MAT 6431

MT= 66 (n,n') Level
Cross Section

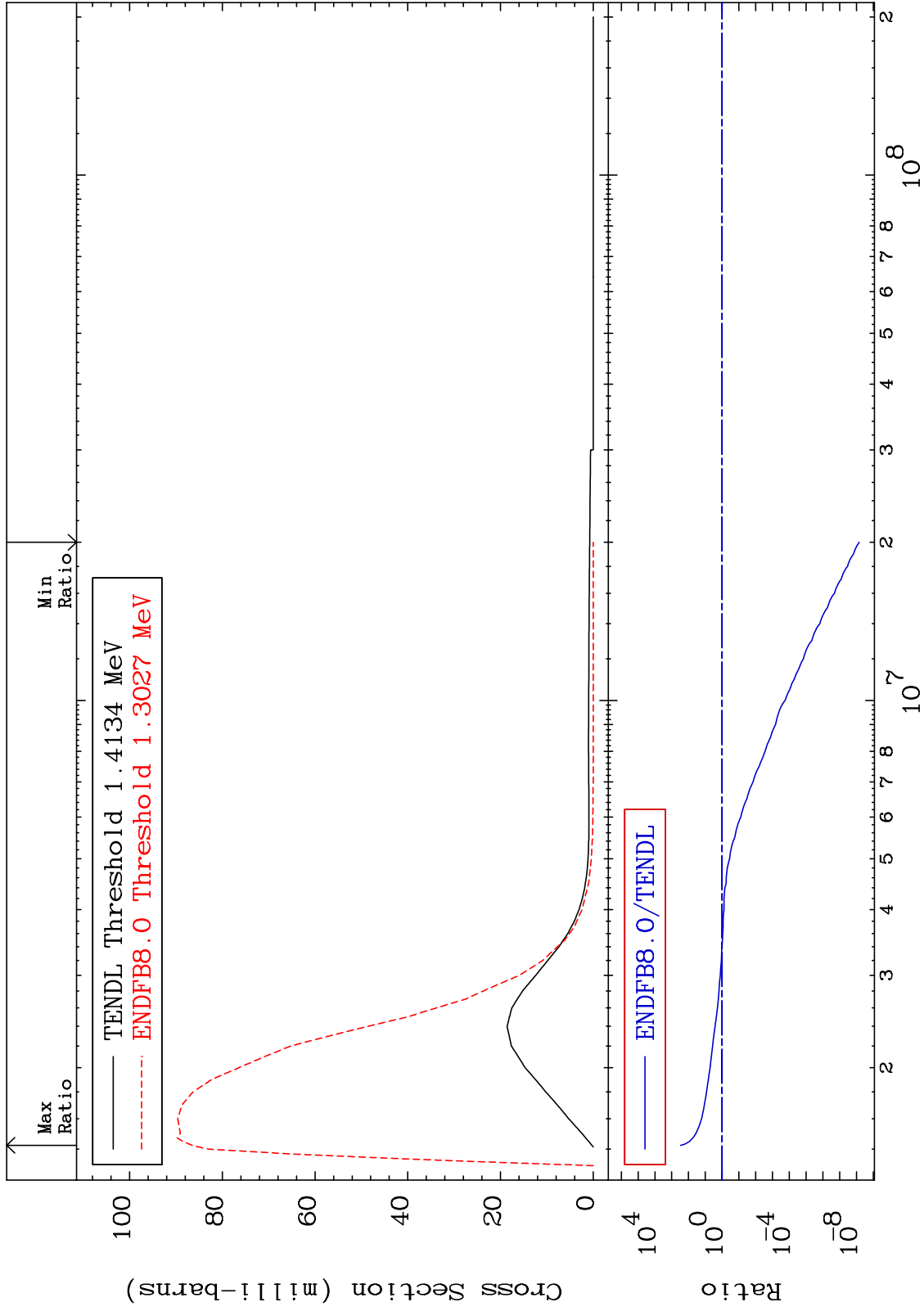
64-Gd-154
-51.65 To 3024. %



MAT 6431

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

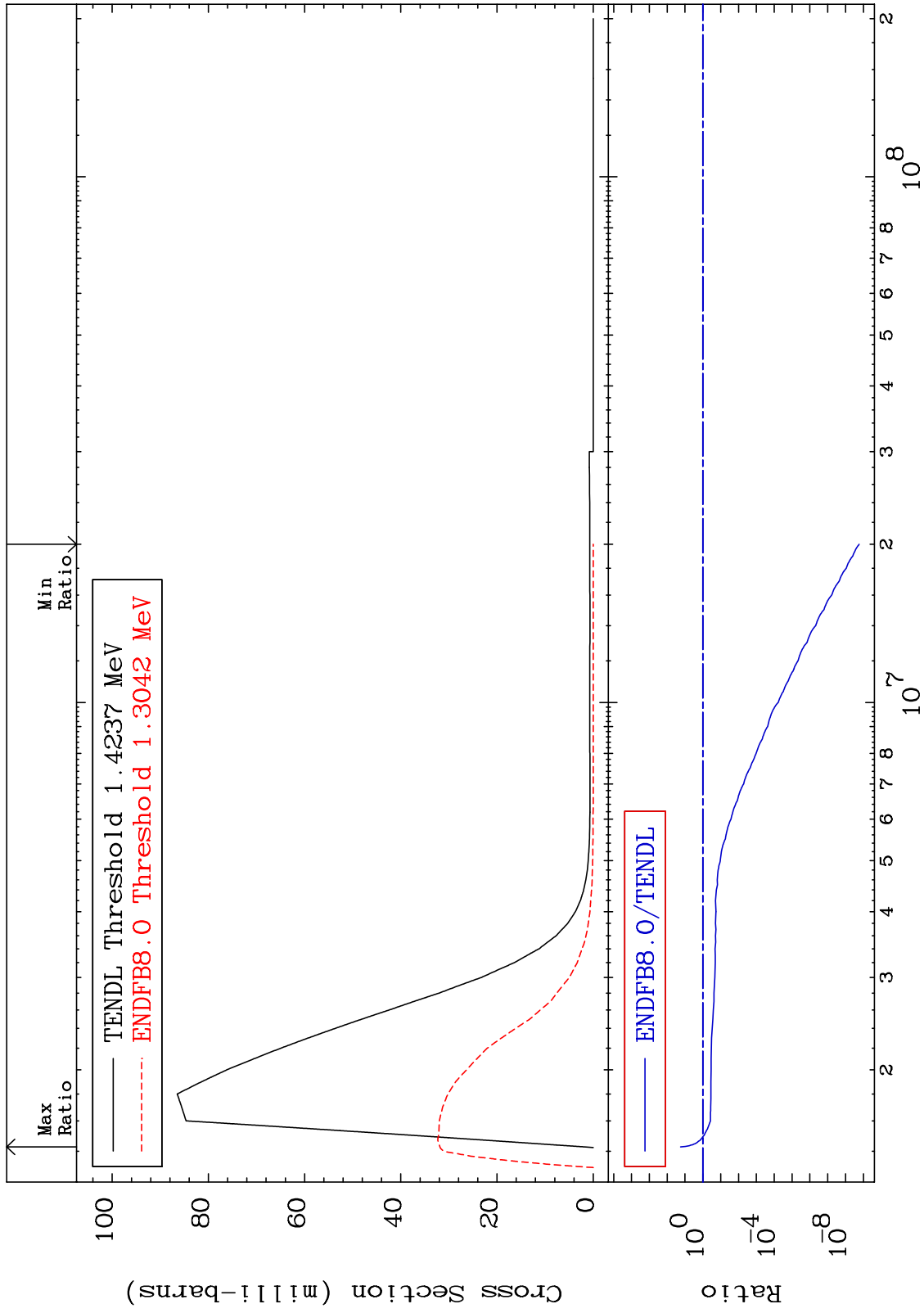
64-Gd-154
-100.0 To 9999. %



MAT 6431

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

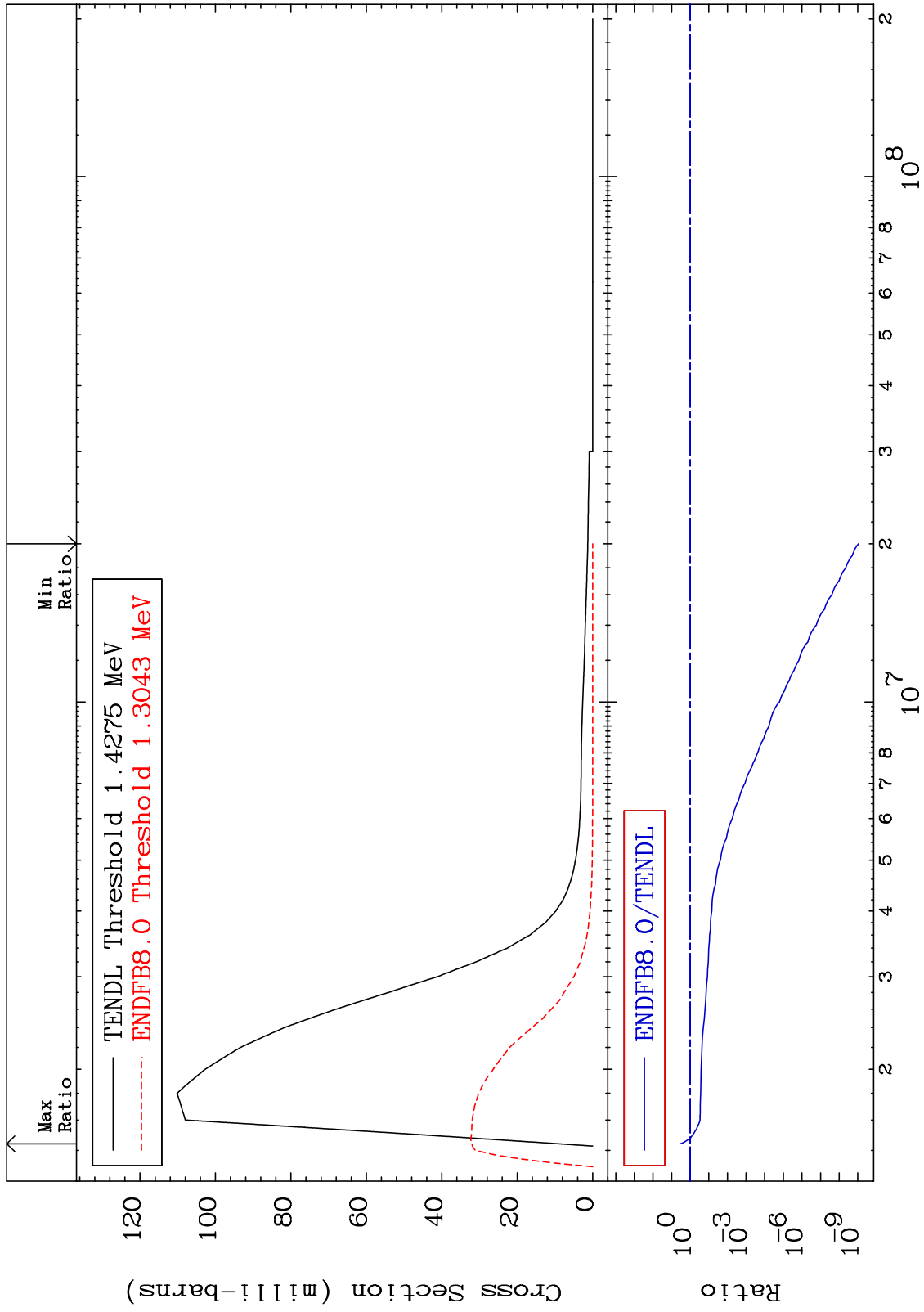
64-Gd-154
-100.0 To 1665. %



MAT 6431

MT= 69 (n, n') Level
Cross Section

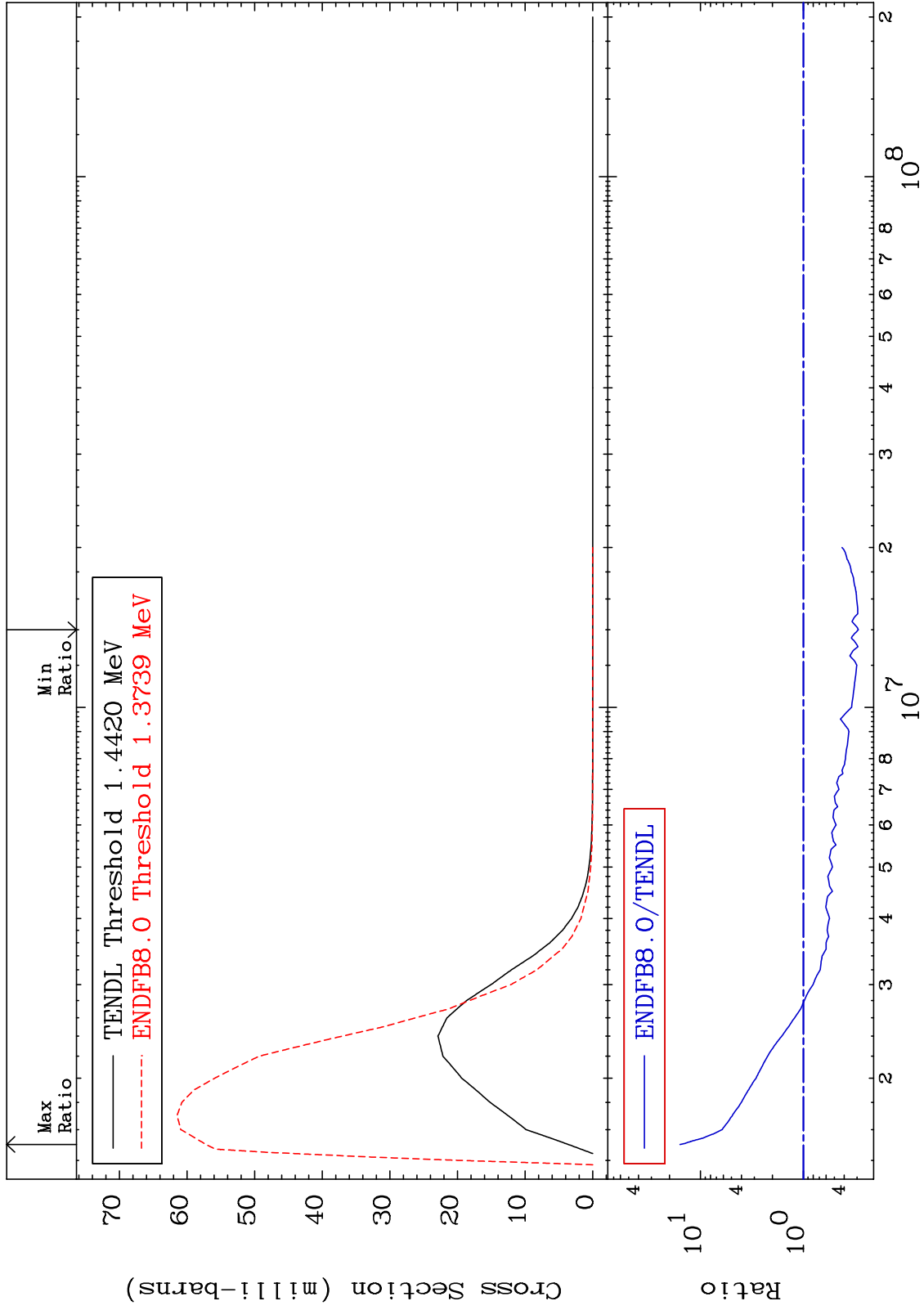
64-Gd-154
-100.0 To 252.3 %



MAT 6431

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

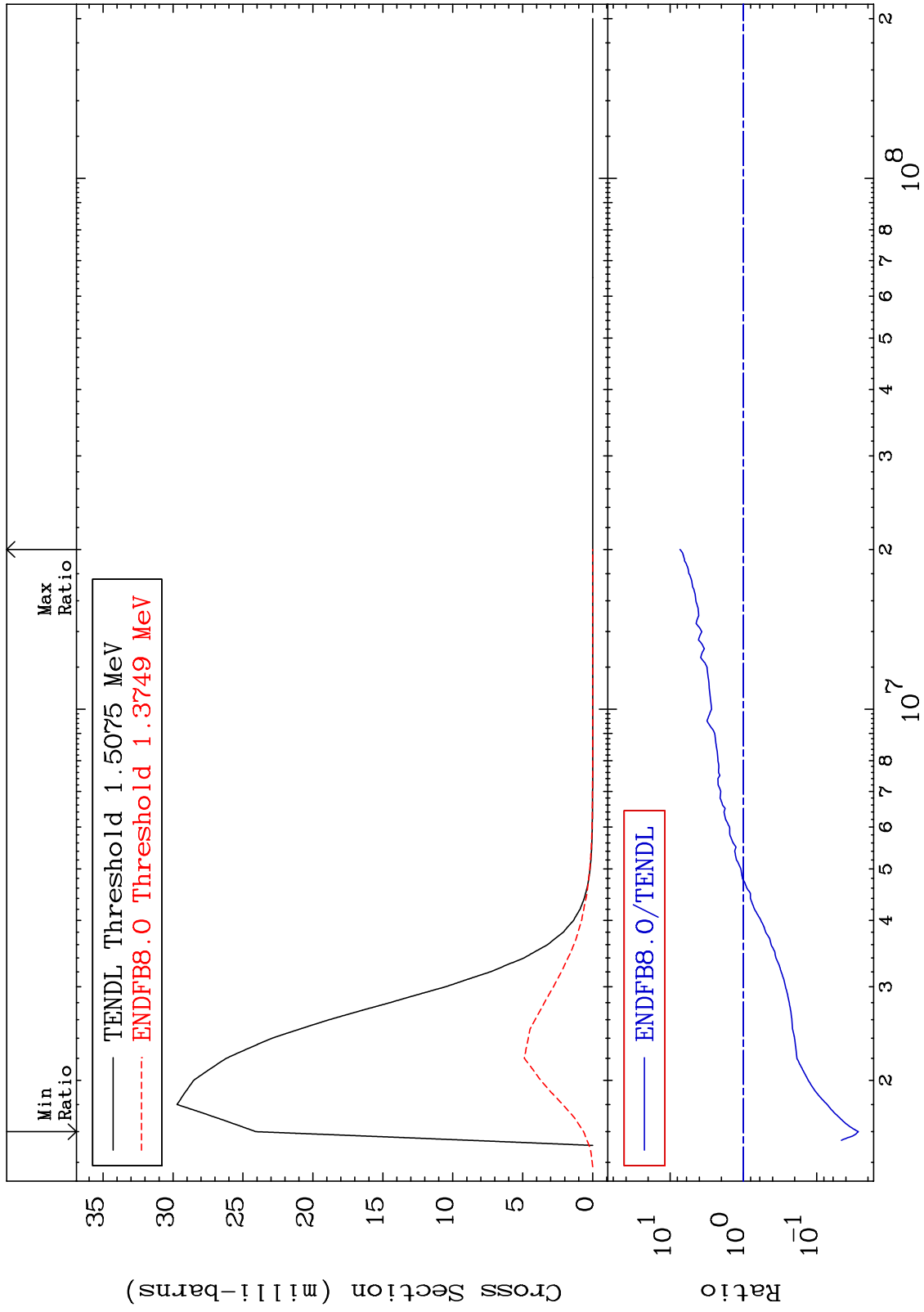
64-Gd-154
-70.88 To 1482. %



MAT 6431

MT= 71 (n, n') Level
Cross Section

64-Gd-154
-97.30 To 634.4 %



30

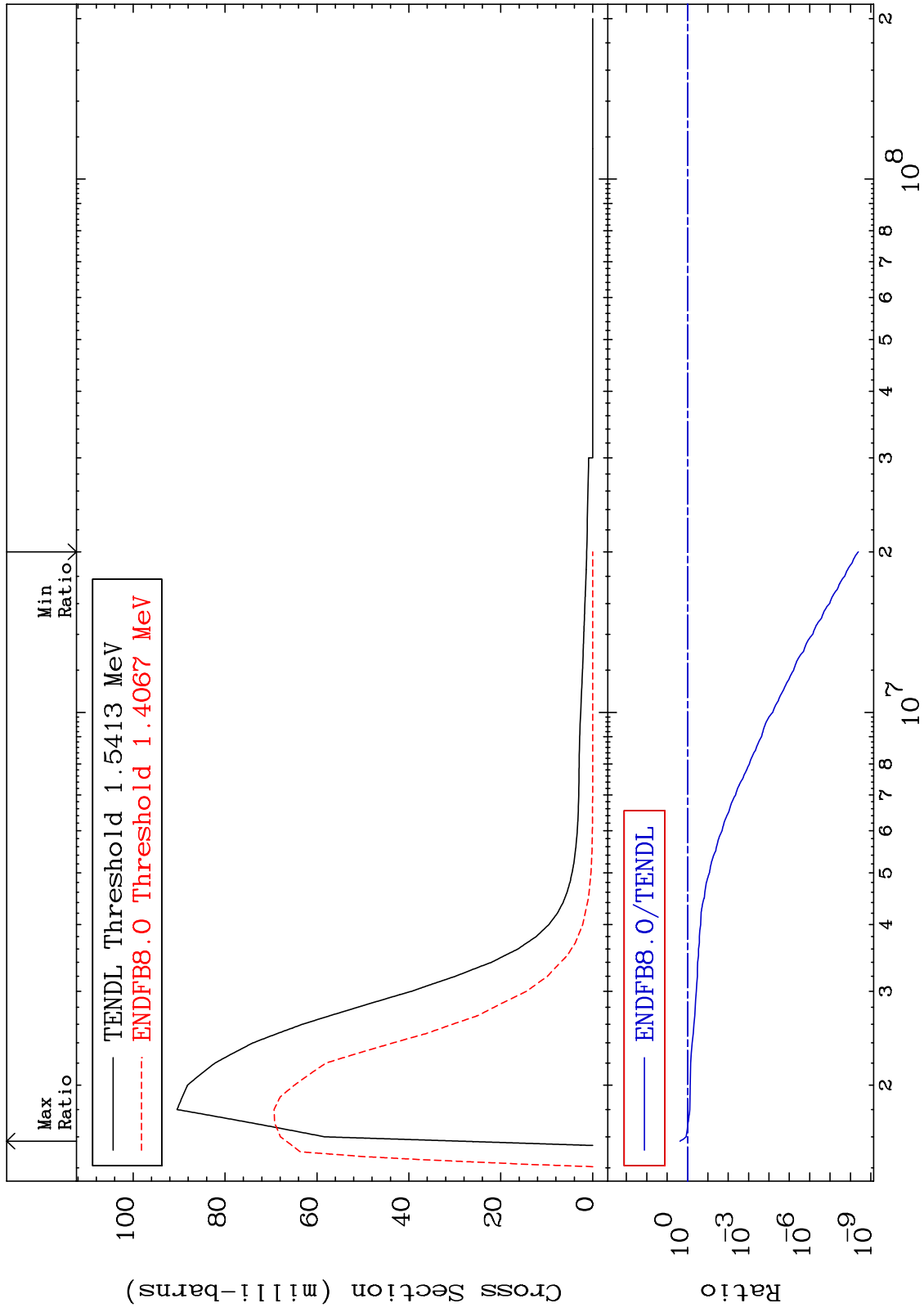
Incident Energy (eV)

64-Gd-154

MAT 6431

MT= 72 (n,n') Level
Cross Section

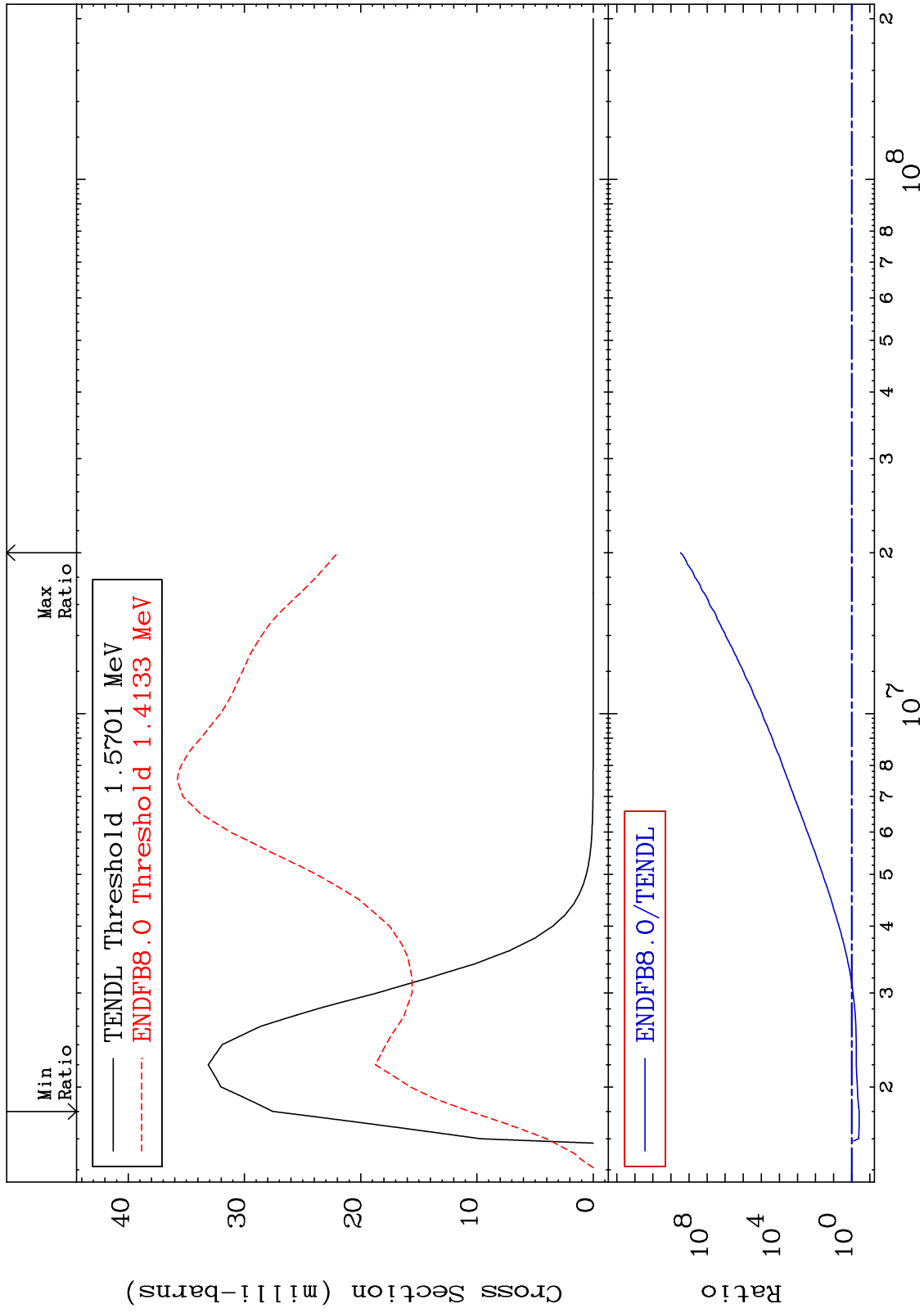
64-Gd-154
-100.0 To 132.7 %



MAT 6431

MT= 73 (n,n') Level
Cross Section

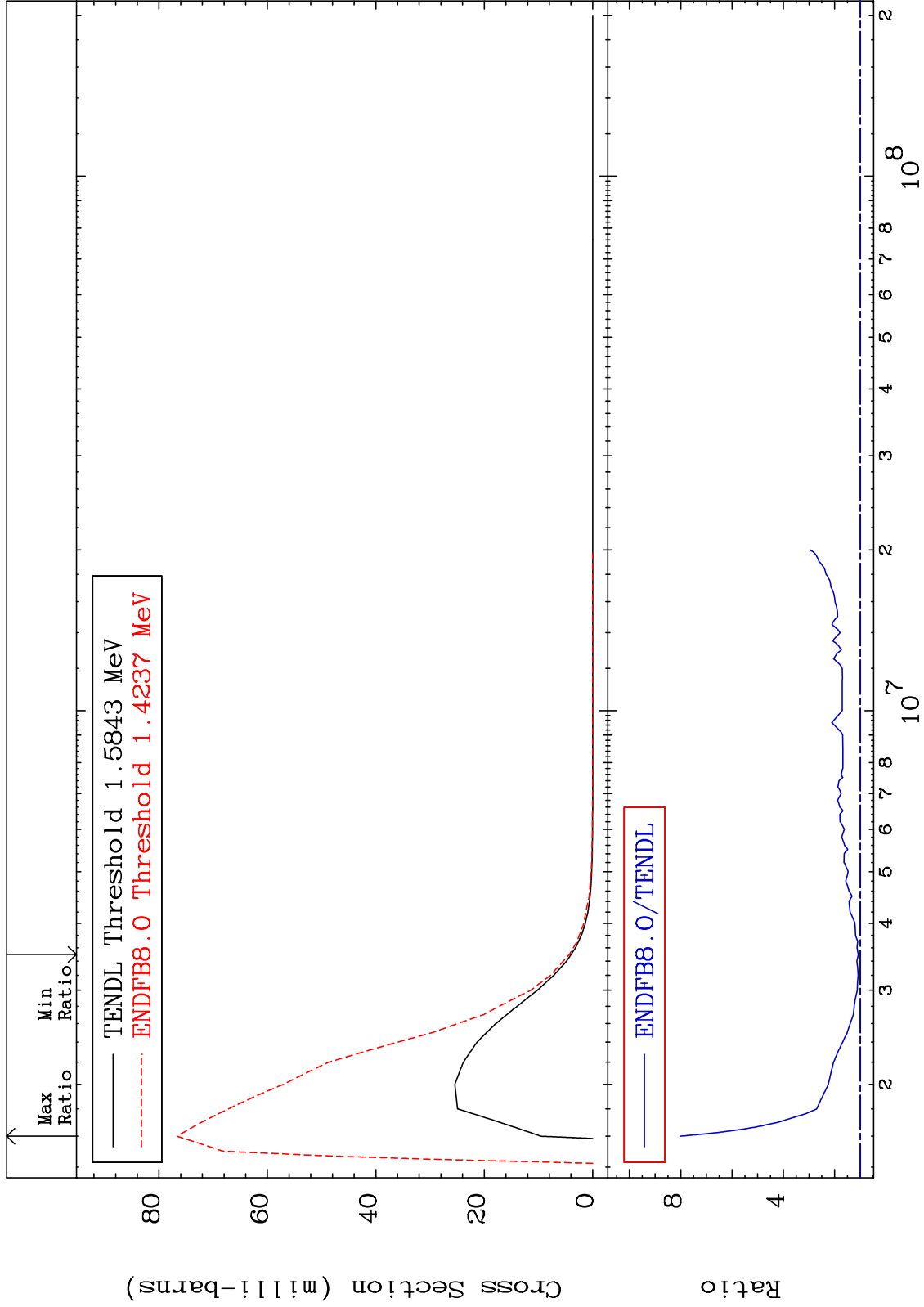
64-Gd-154
-61.35 To 9999. %



MAT 6431

MT= 74 (n,n') Level
Cross Section

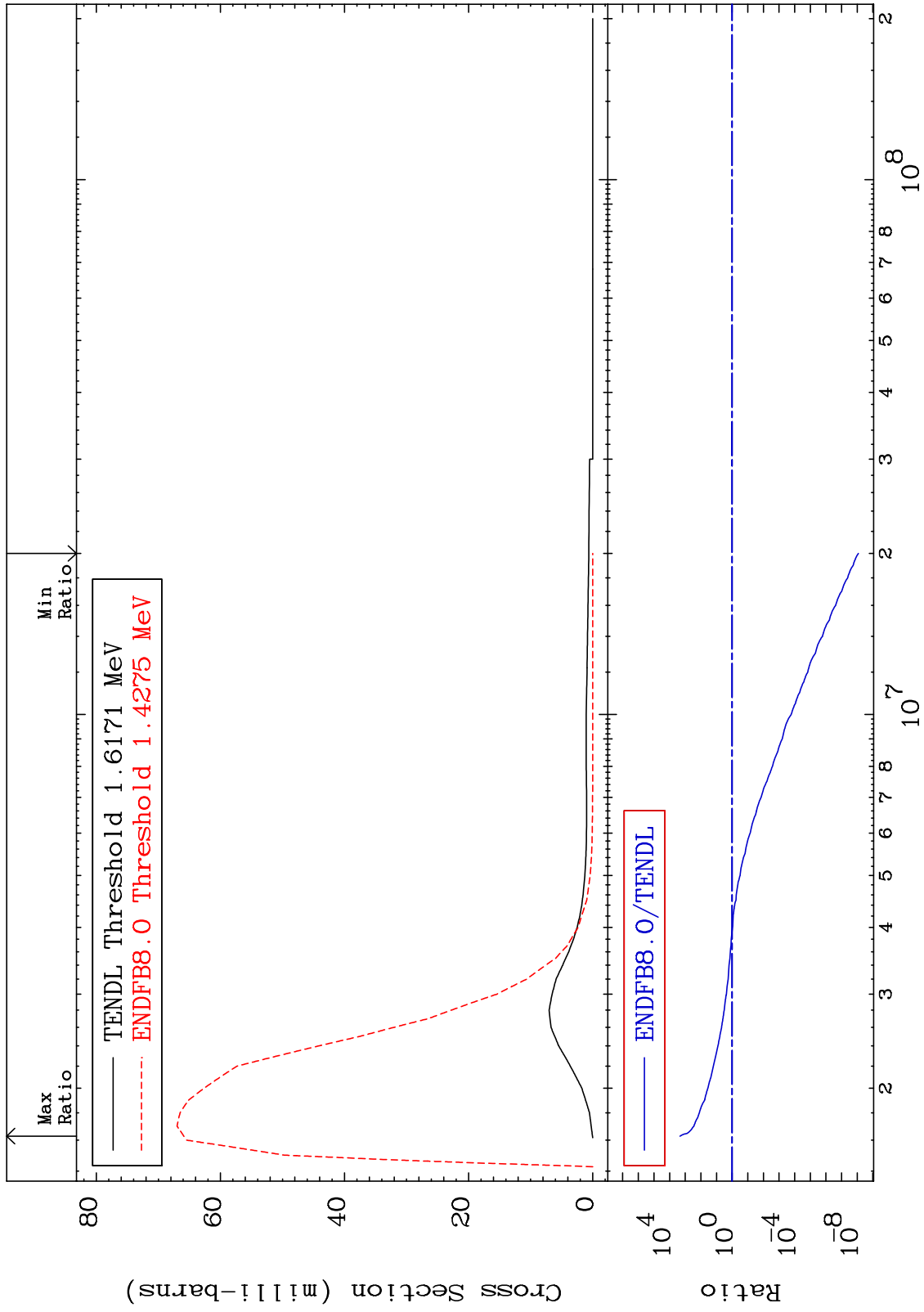
64-Gd-154
7.233 To 702.7 %



MAT 6431

MT= 75 (n,n') Level
Cross Section

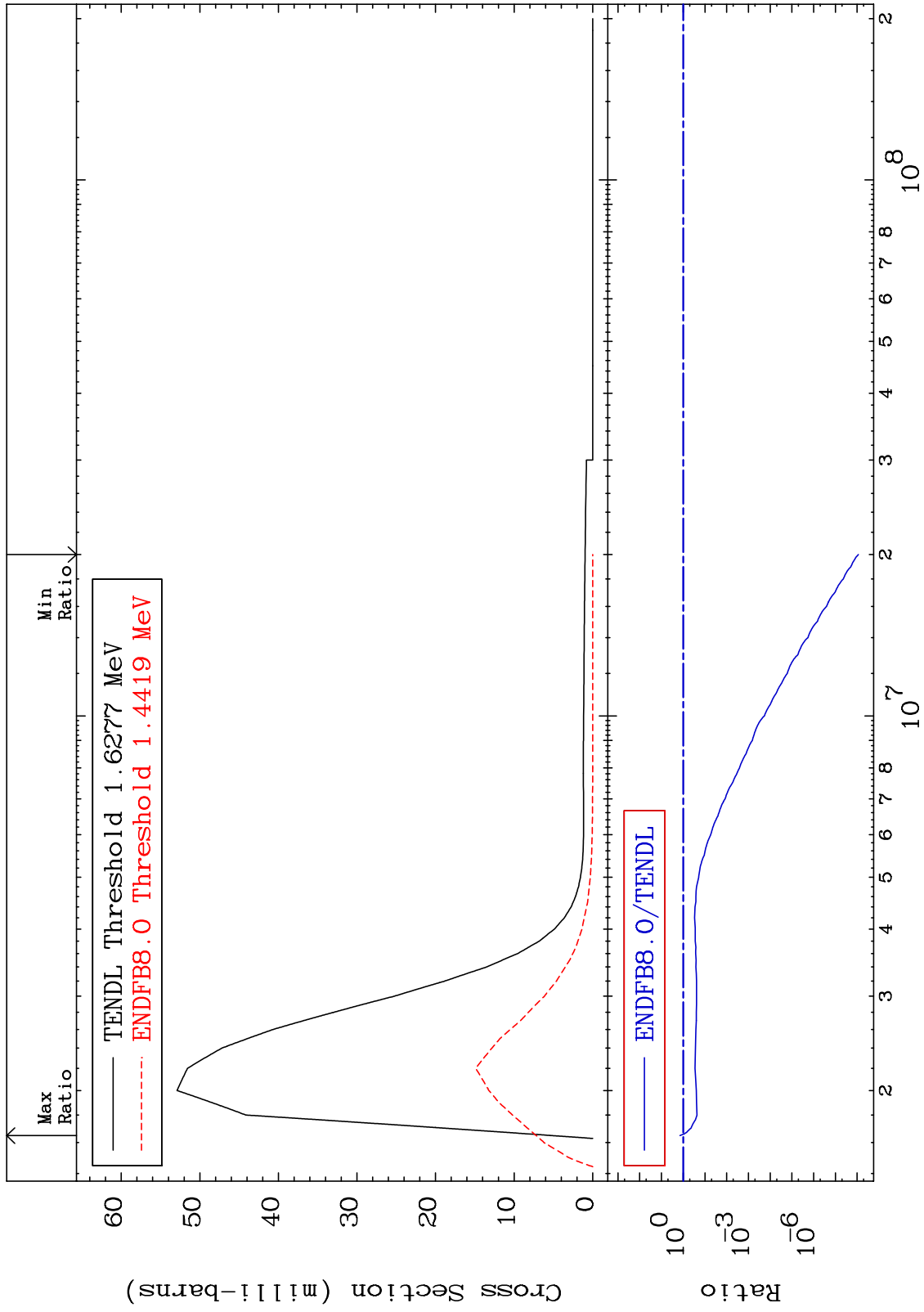
64-Gd-154
-100.0 To 9999. %



MAT 6431

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

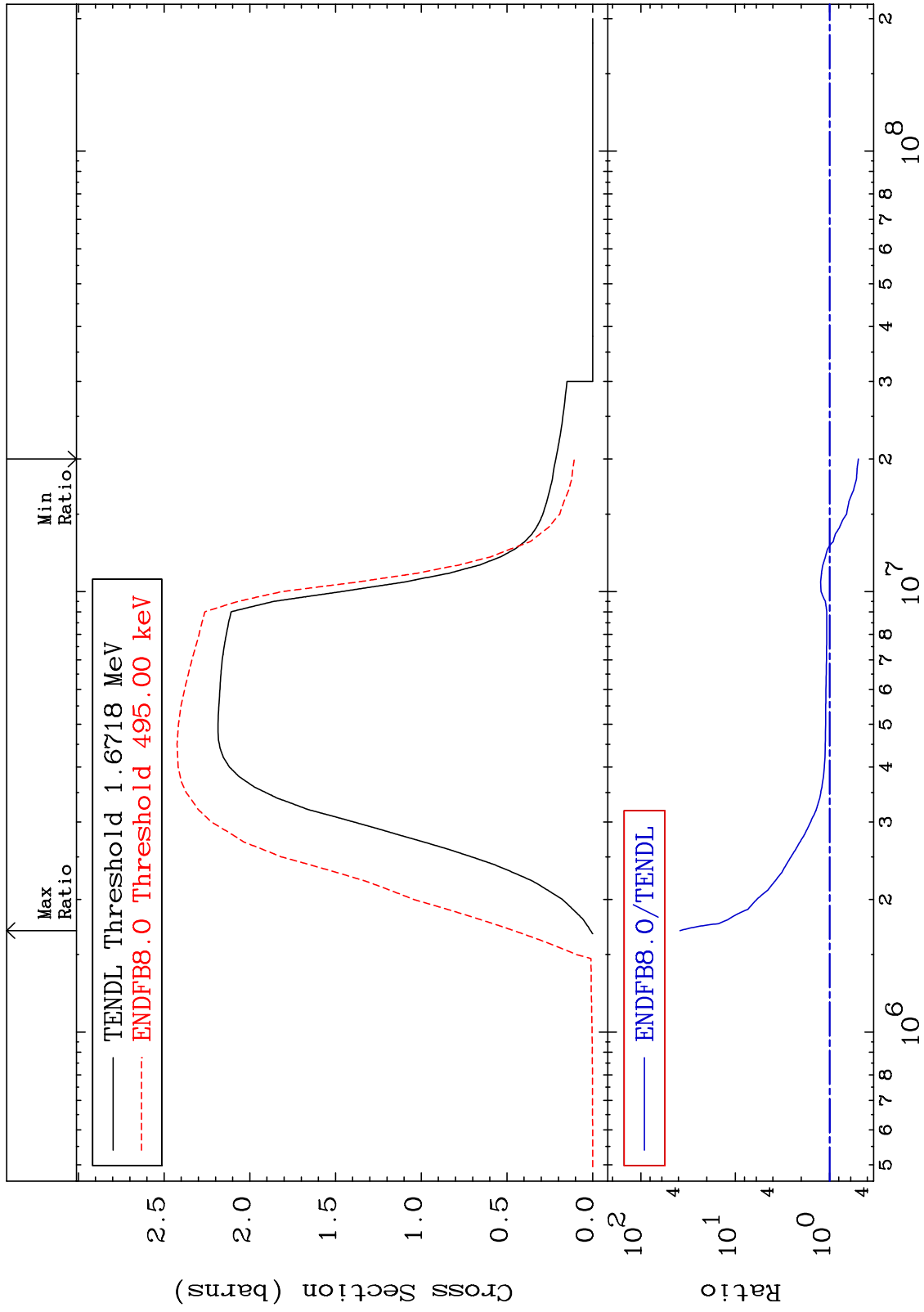
64-Gd-154
-100.0 To 39.85 %



MAT 6431

(n, n') Continuum
Cross Section

64-Gd-154
-50.38 To 3749. %



36

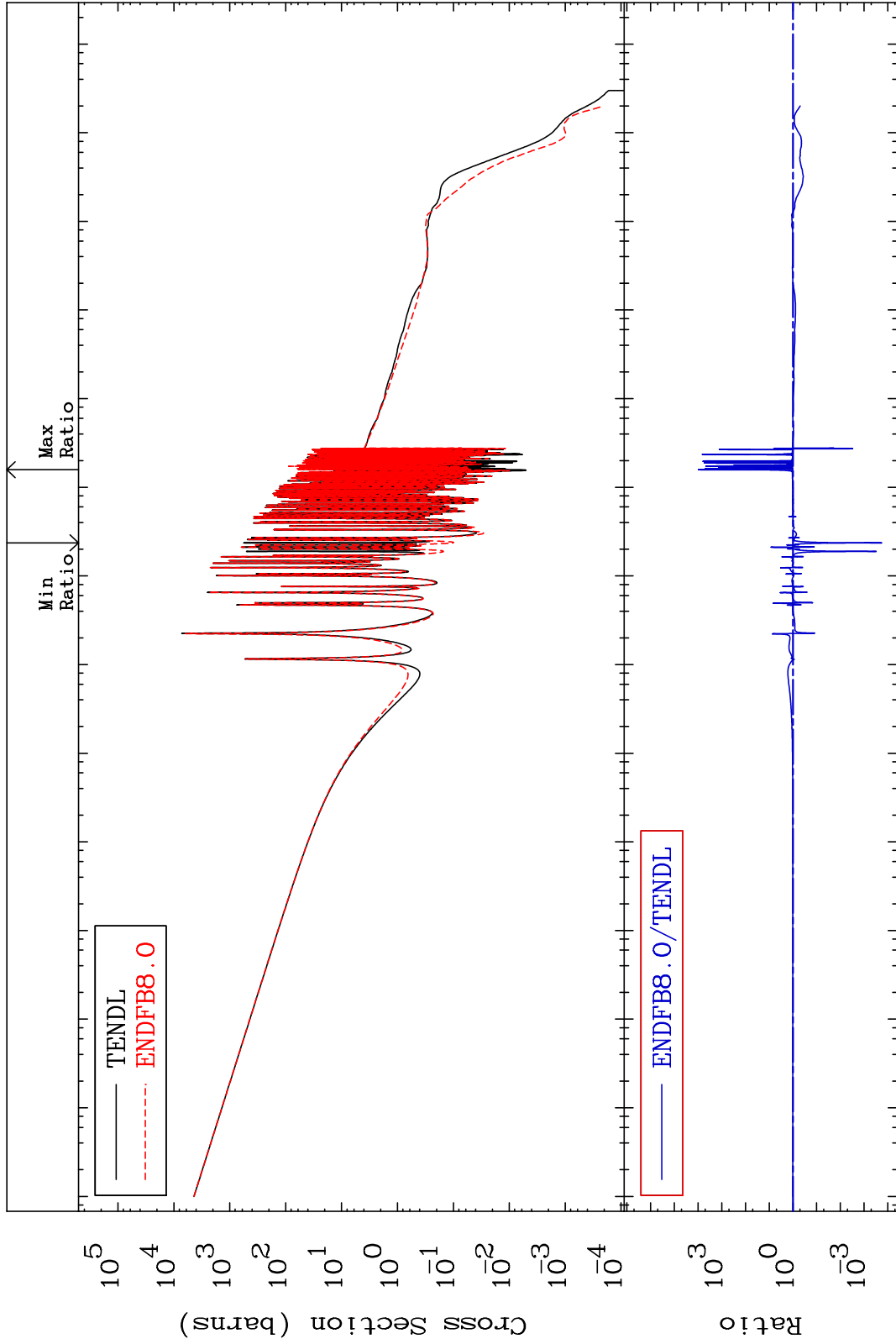
Incident Energy (eV)

64-Gd-154

MAT 6431

(n, γ)
Cross Section

64-Gd-154
-99.98 To 9999. %



37

Incident Energy (eV)

64-Gd-154

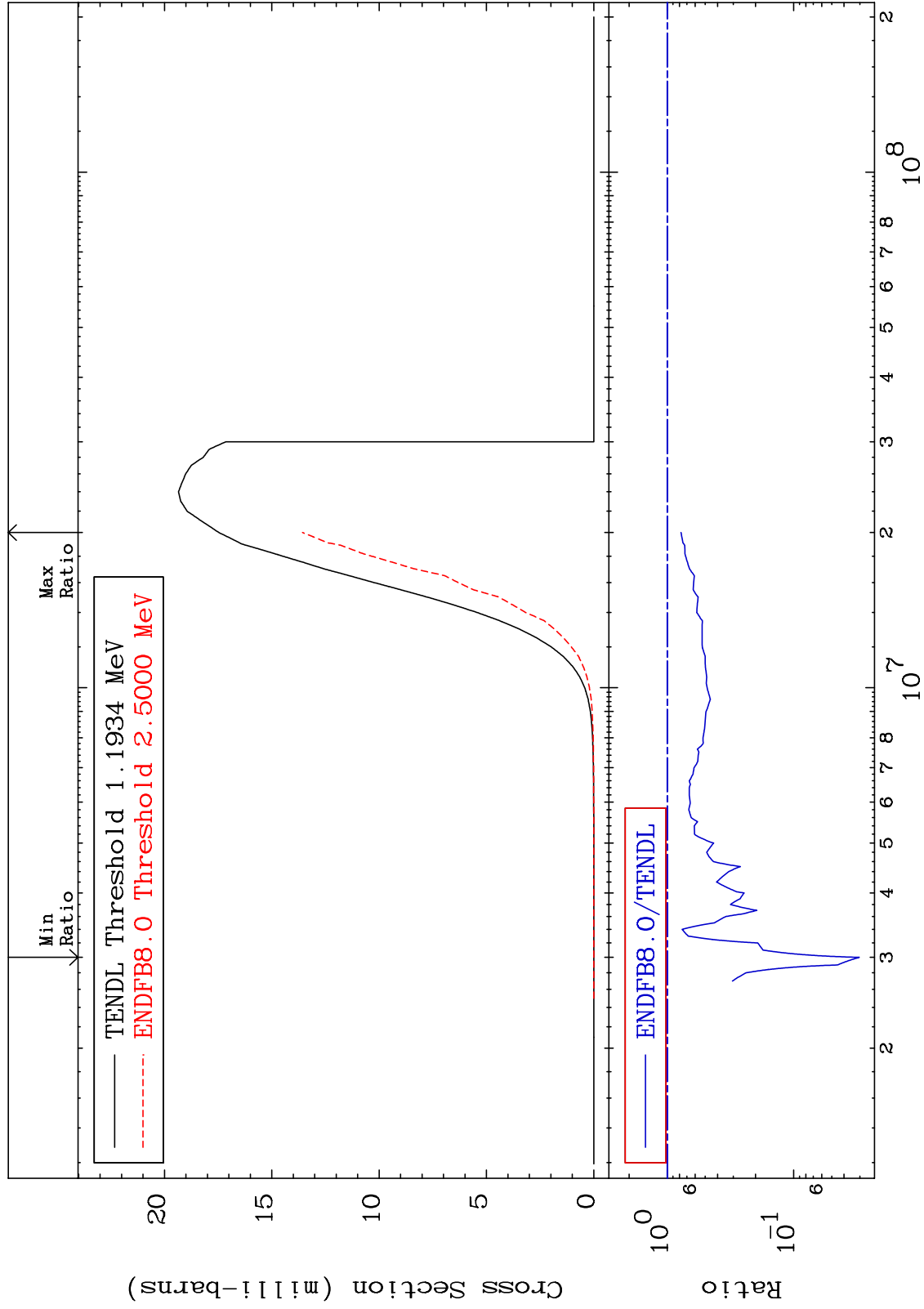
MAT 6431

(n, p)

64-Gd-154

Cross Section

-96.97 To -22.32%



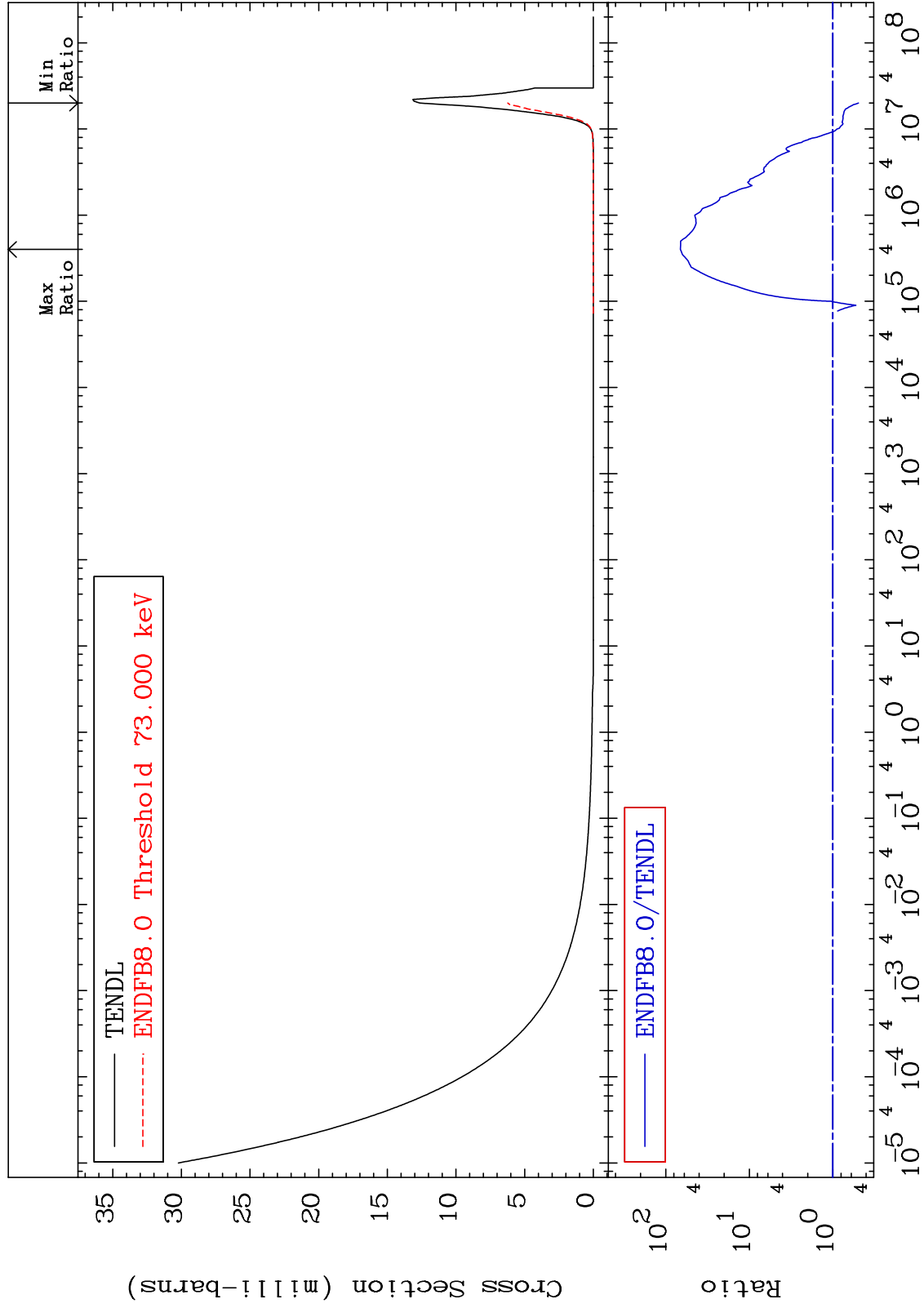
MAT 6431

(n, α)

64-Gd-154

Cross Section

-50.70 To 6569. %



39

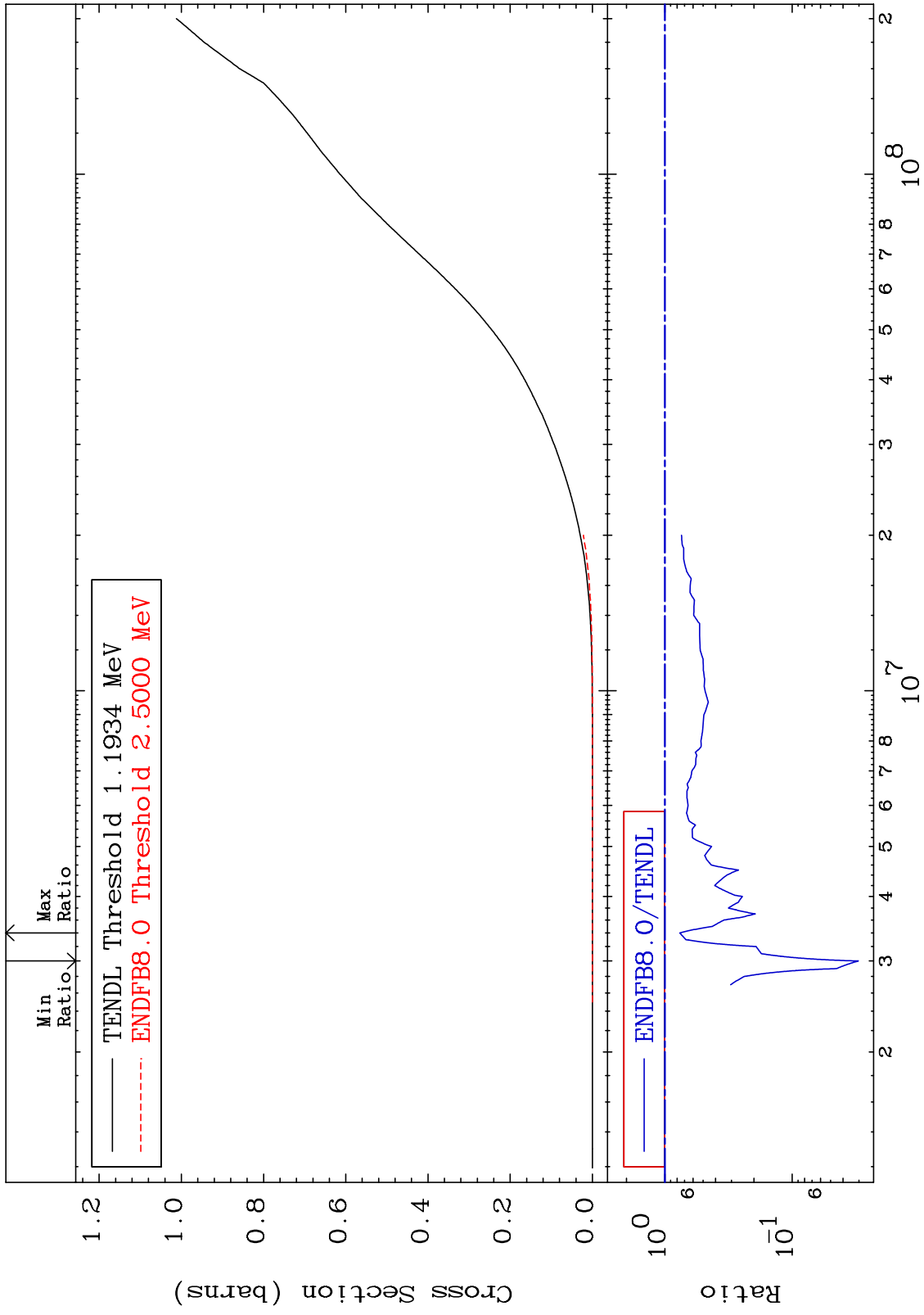
Incident Energy (eV)

64-Gd-154

MAT 6431

Hydrogen Production Cross Section

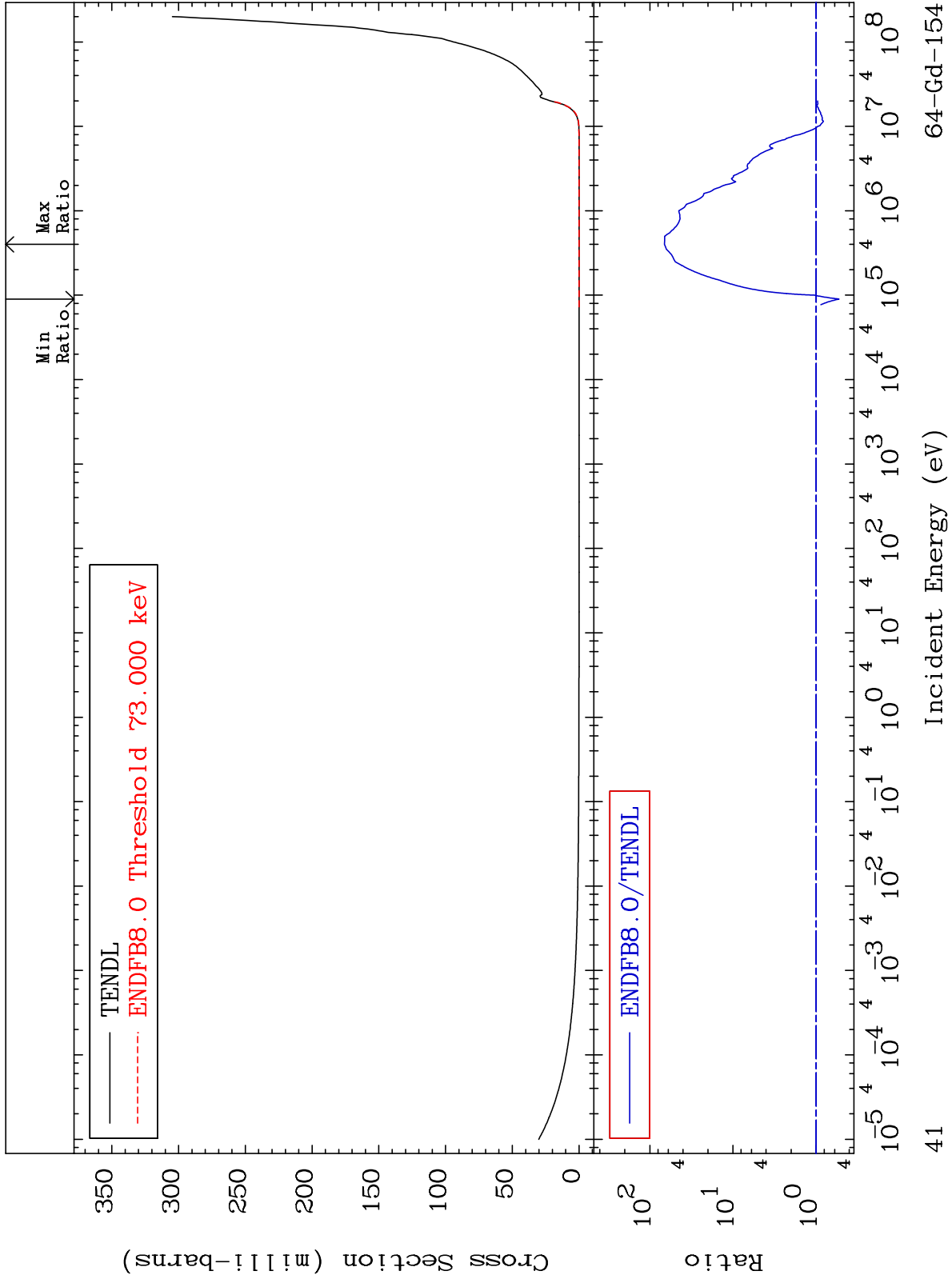
64-Gd-154
-96.97 To -23.69%



MAT 6431

He-4 Production
Cross Section

64-Gd-154
-46.91 To 6569. %



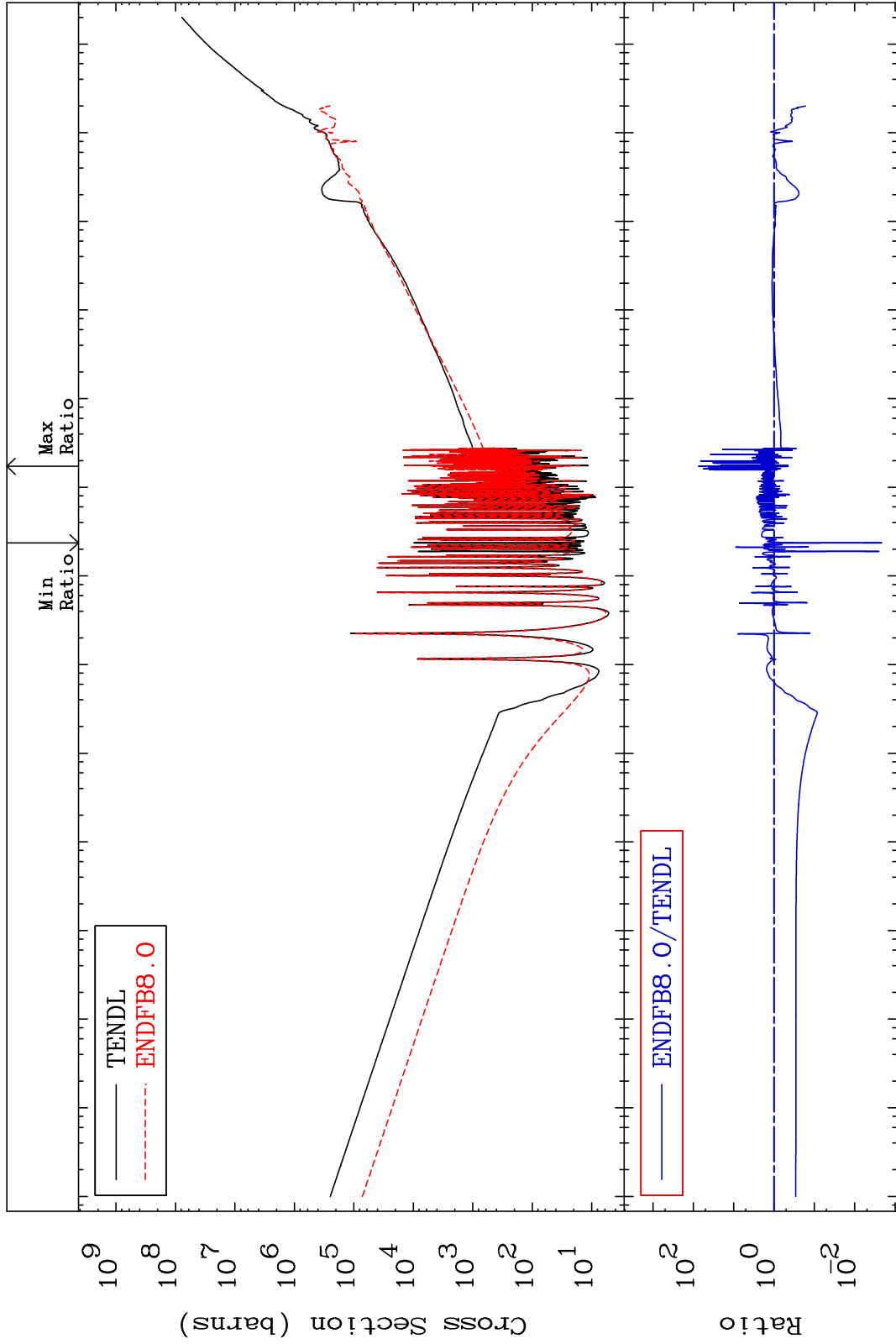
MAT 6431

Kerma total (eV-barns)

64-Gd-154

-99.78 To 7398. %

Cross Section



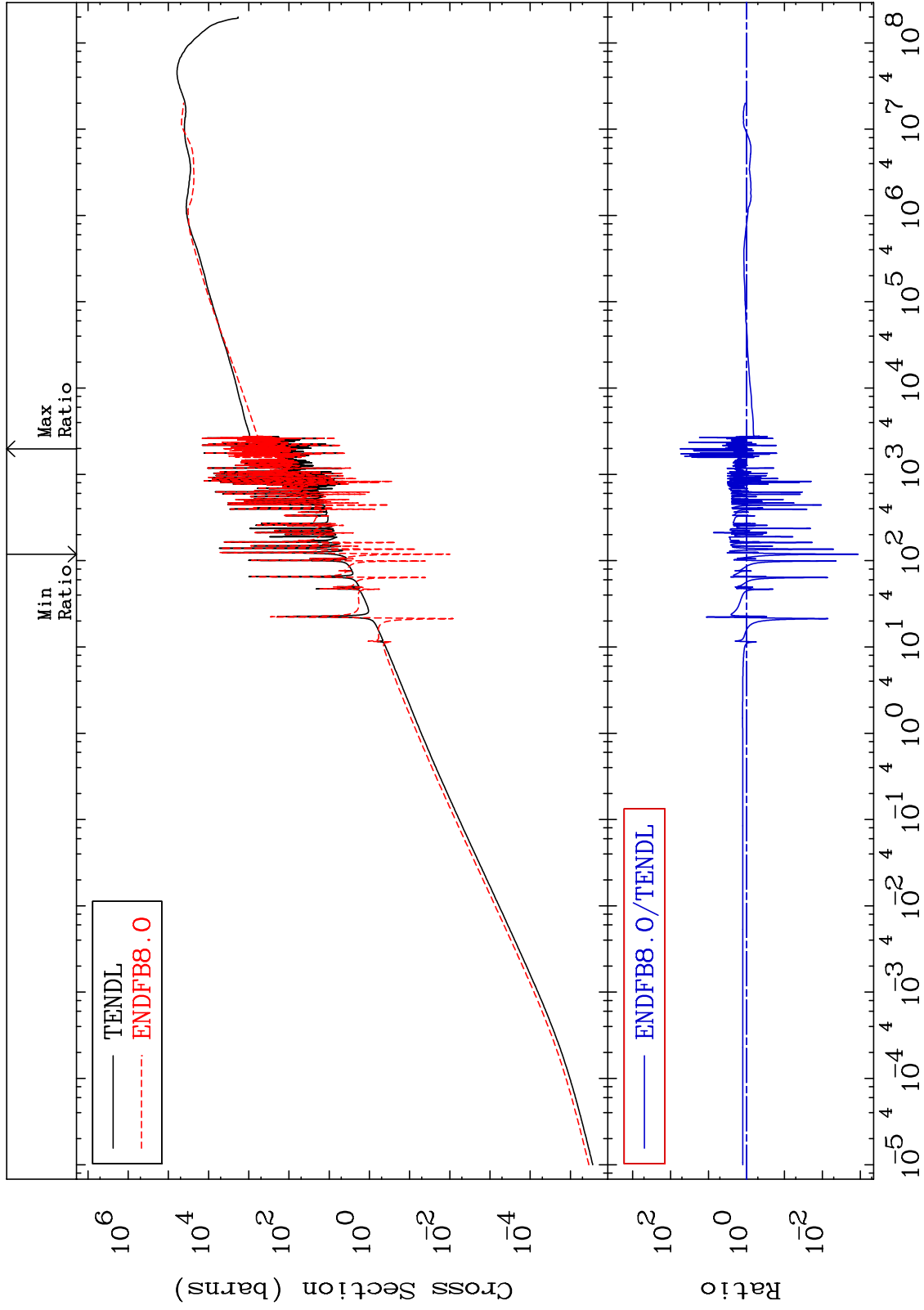
Incident Energy (eV)

64-Gd-154

MAT 6431

Kerma elastic
Cross Section

64-Gd-154
-99.89 To 5534. %



43

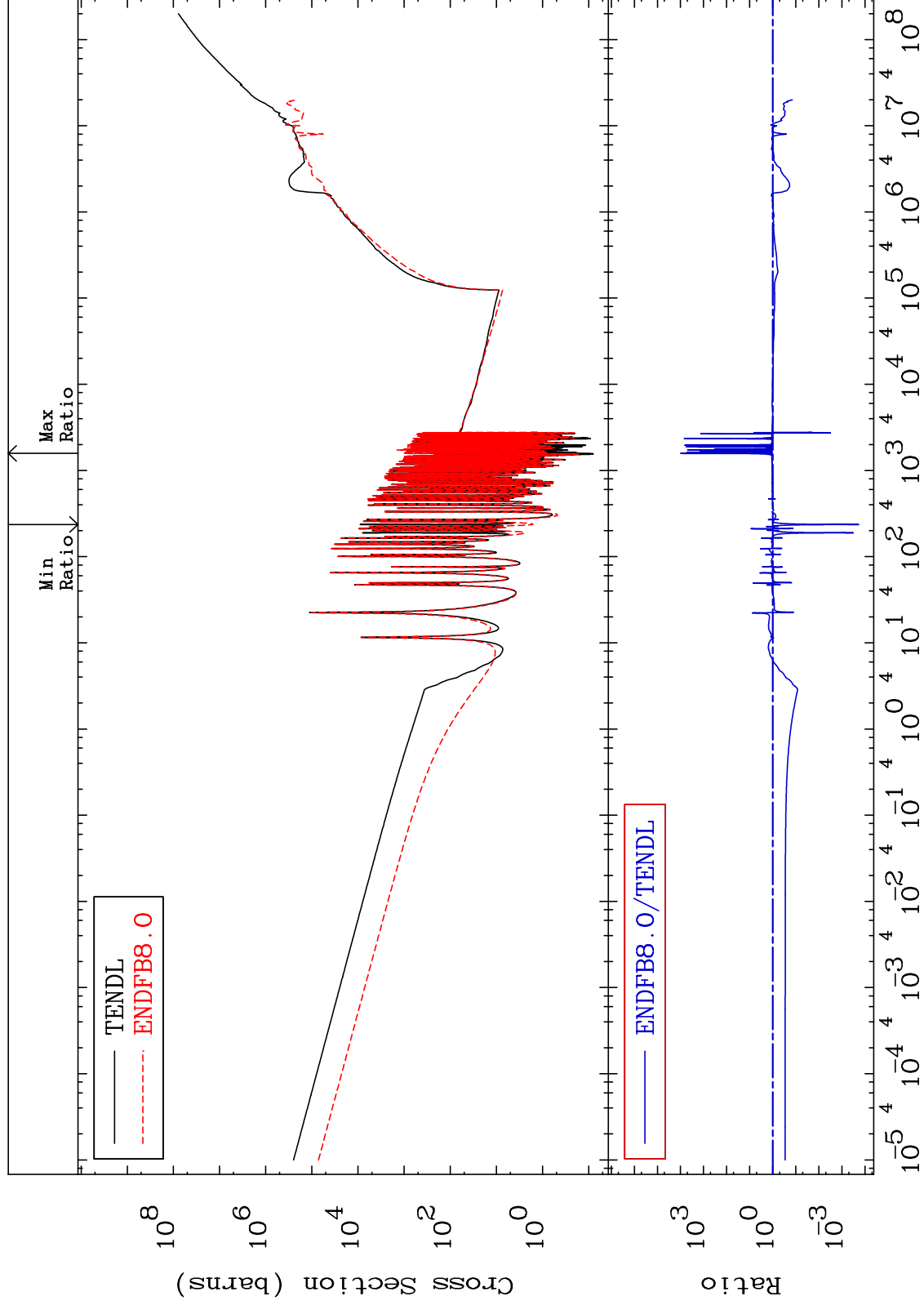
Incident Energy (eV)

64-Gd-154

MAT 6431

Kerma non-elastic (all but mt2)
Cross Section

64-Gd-154
-99.98 To 9999. %



44

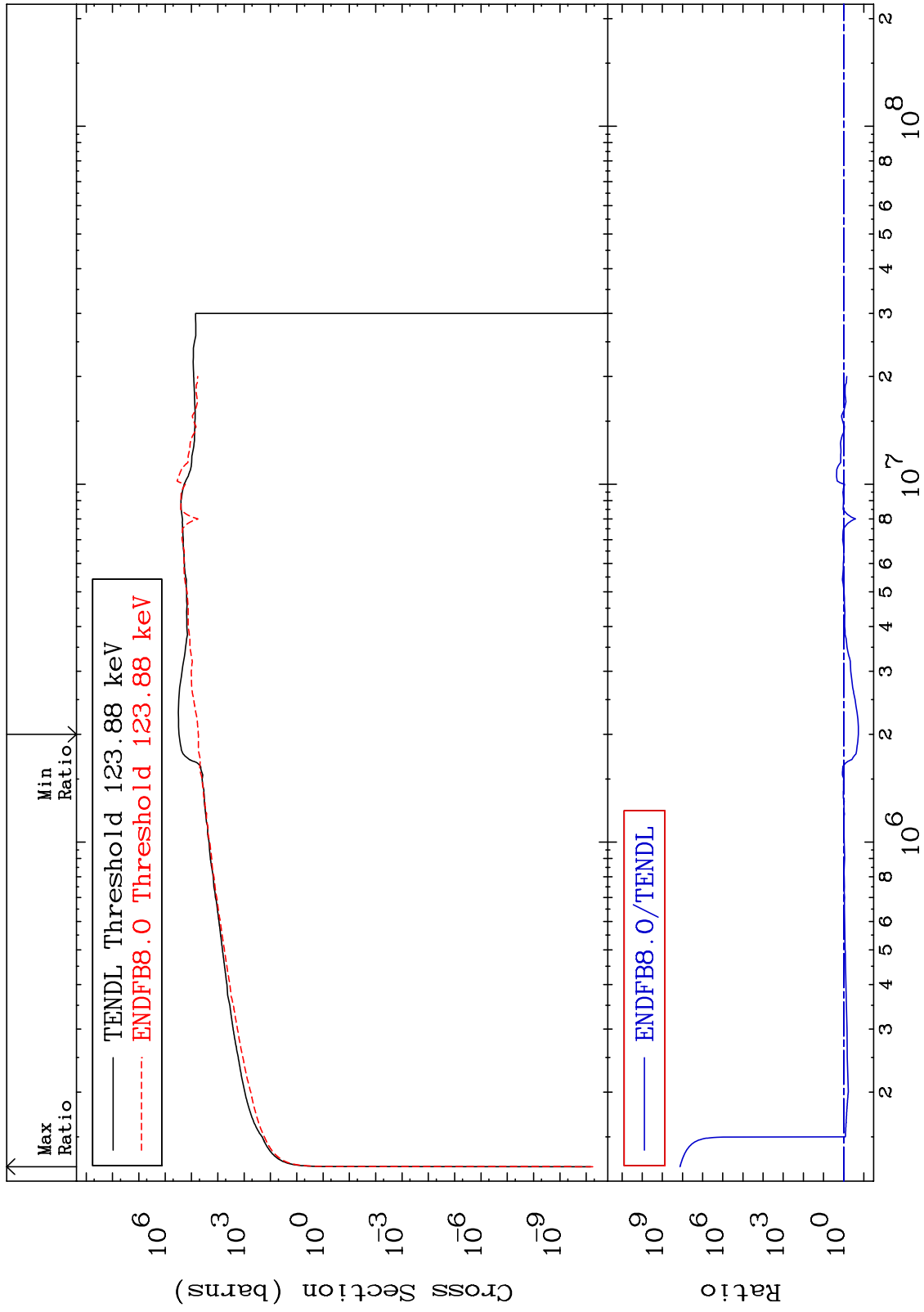
Incident Energy (eV)

64-Gd-154

MAT 6431

Kerma inelastic (mt51-91)
Cross Section

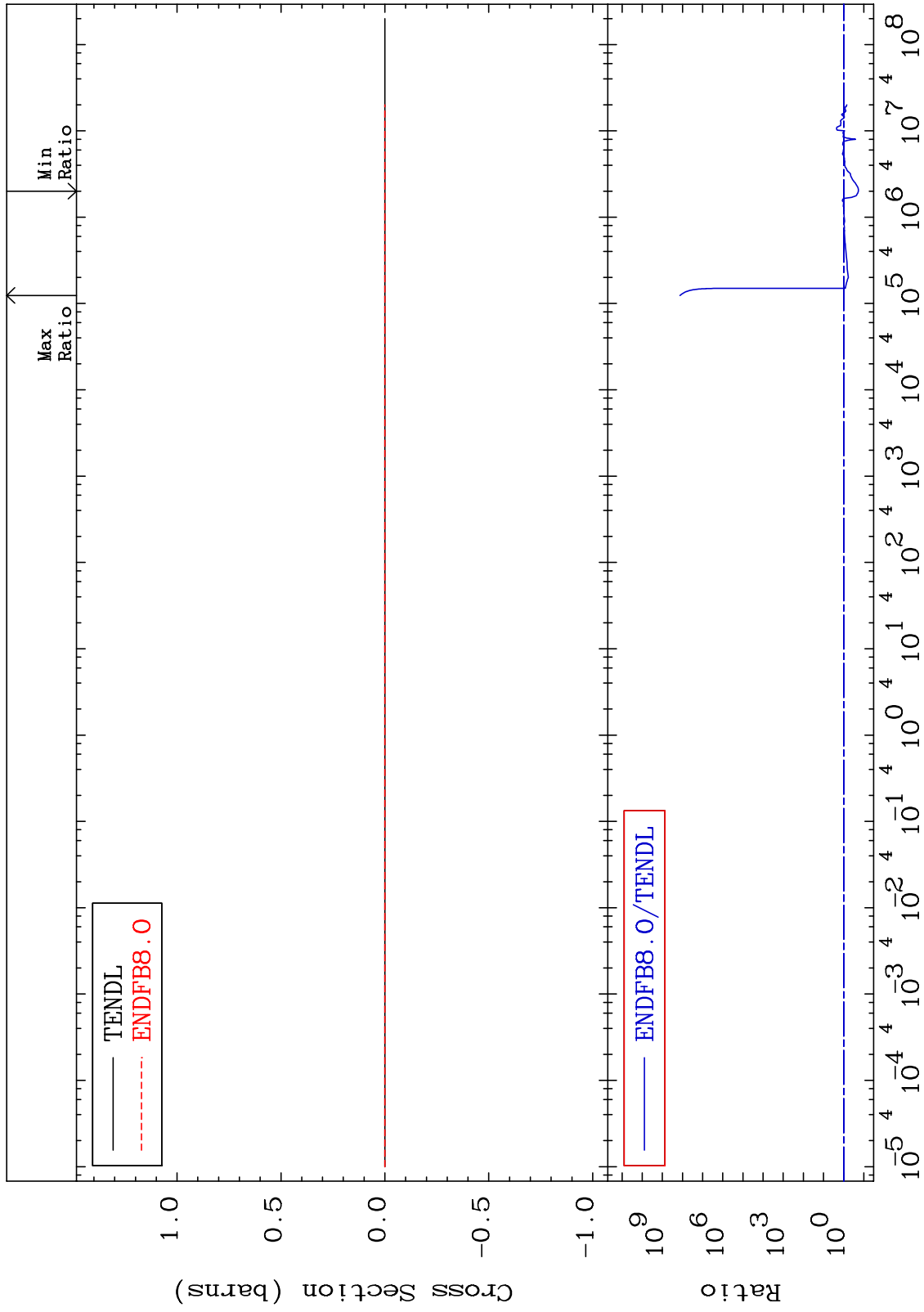
64-Gd-154
-81.49 To 9999. %



MAT 6431

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

64-Gd-154
-81.49 To 9999. %



46

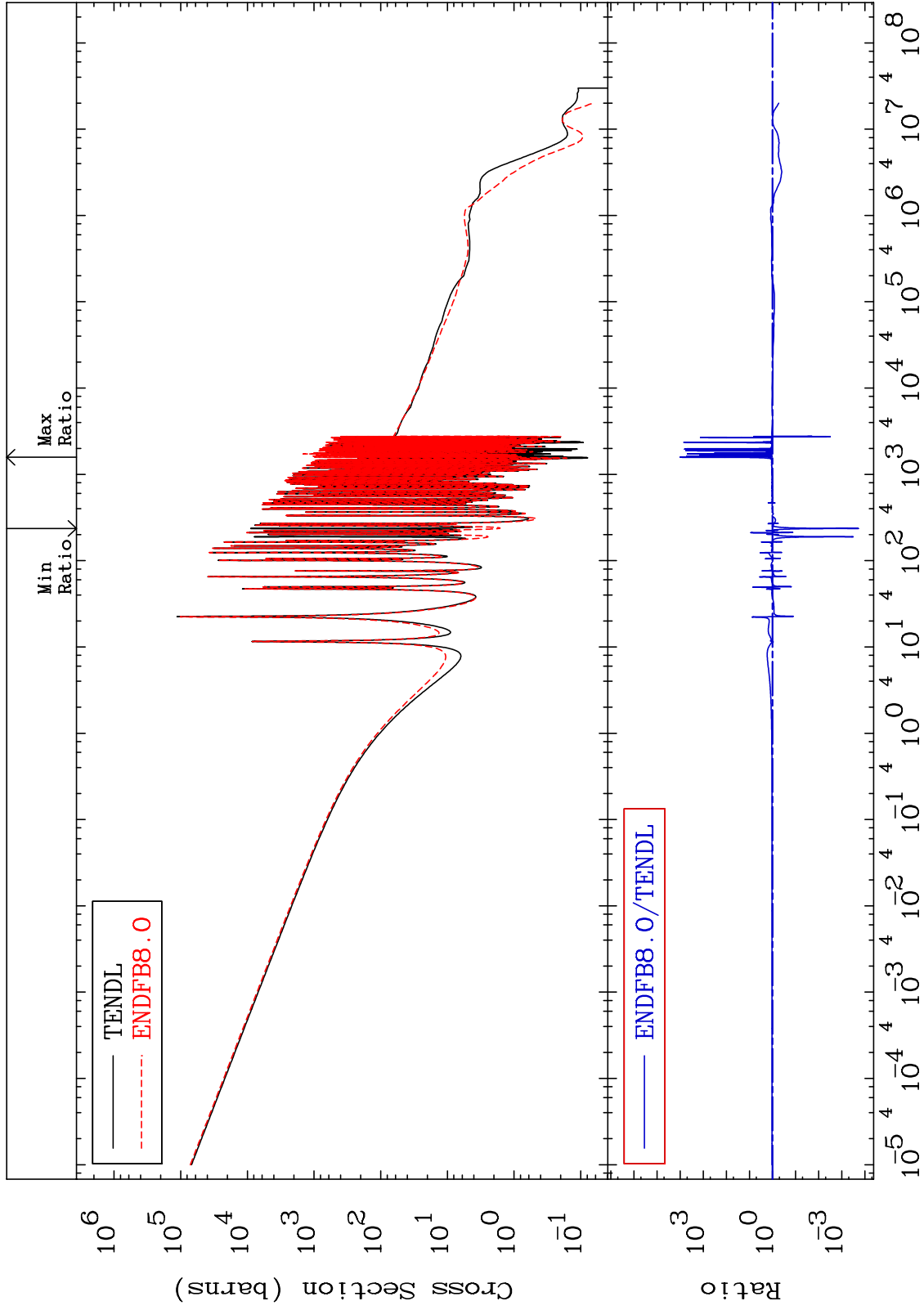
Incident Energy (eV)

64-Gd-154

MAT 6431

Kerma capture (mt102)
Cross Section

64-Gd-154
-99.98 To 9999. %



47

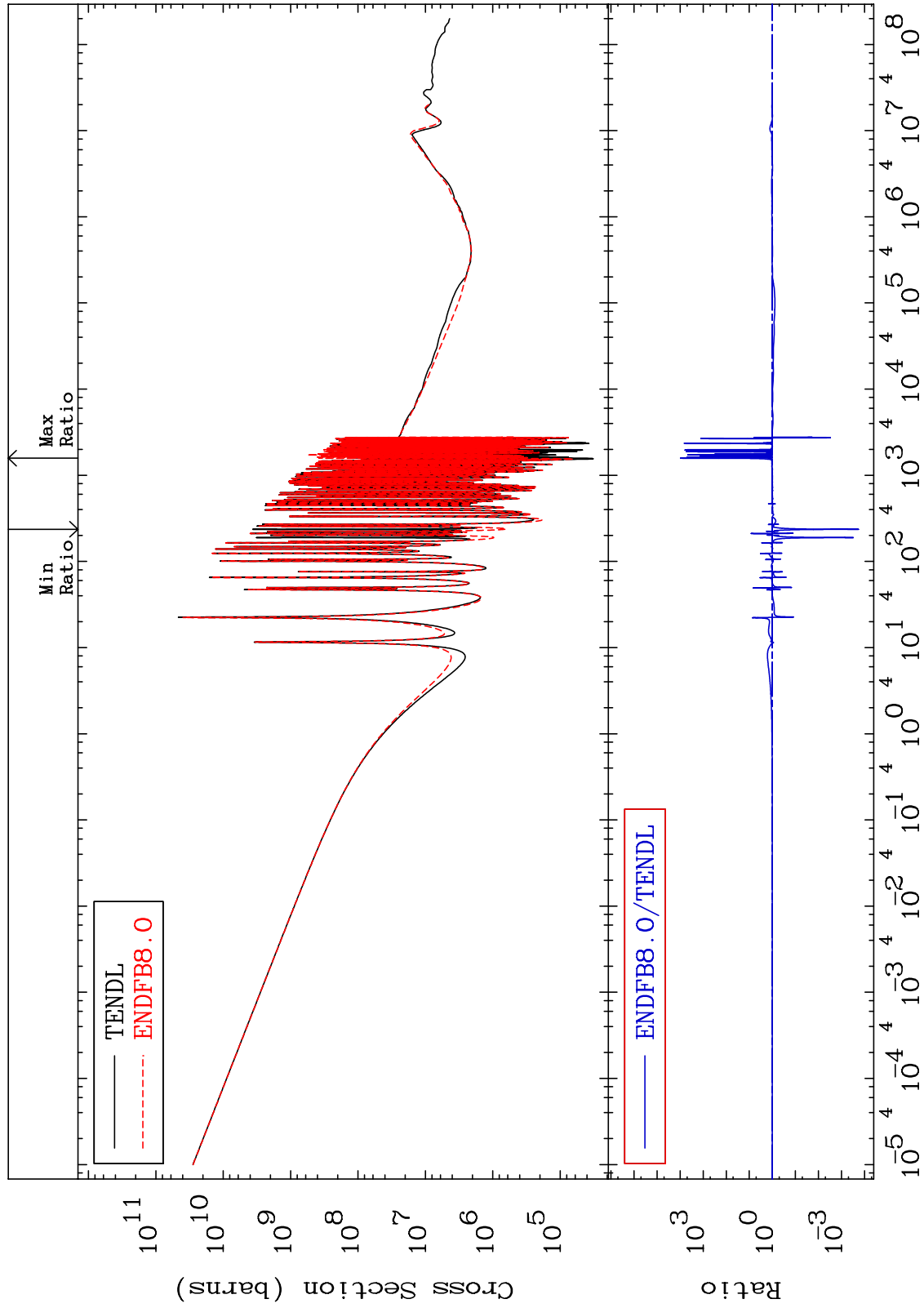
Incident Energy (eV)

64-Gd-154

MAT 6431

Total photon (eV-barns)
Cross Section

64-Gd-154
-99.98 To 9999. %



48

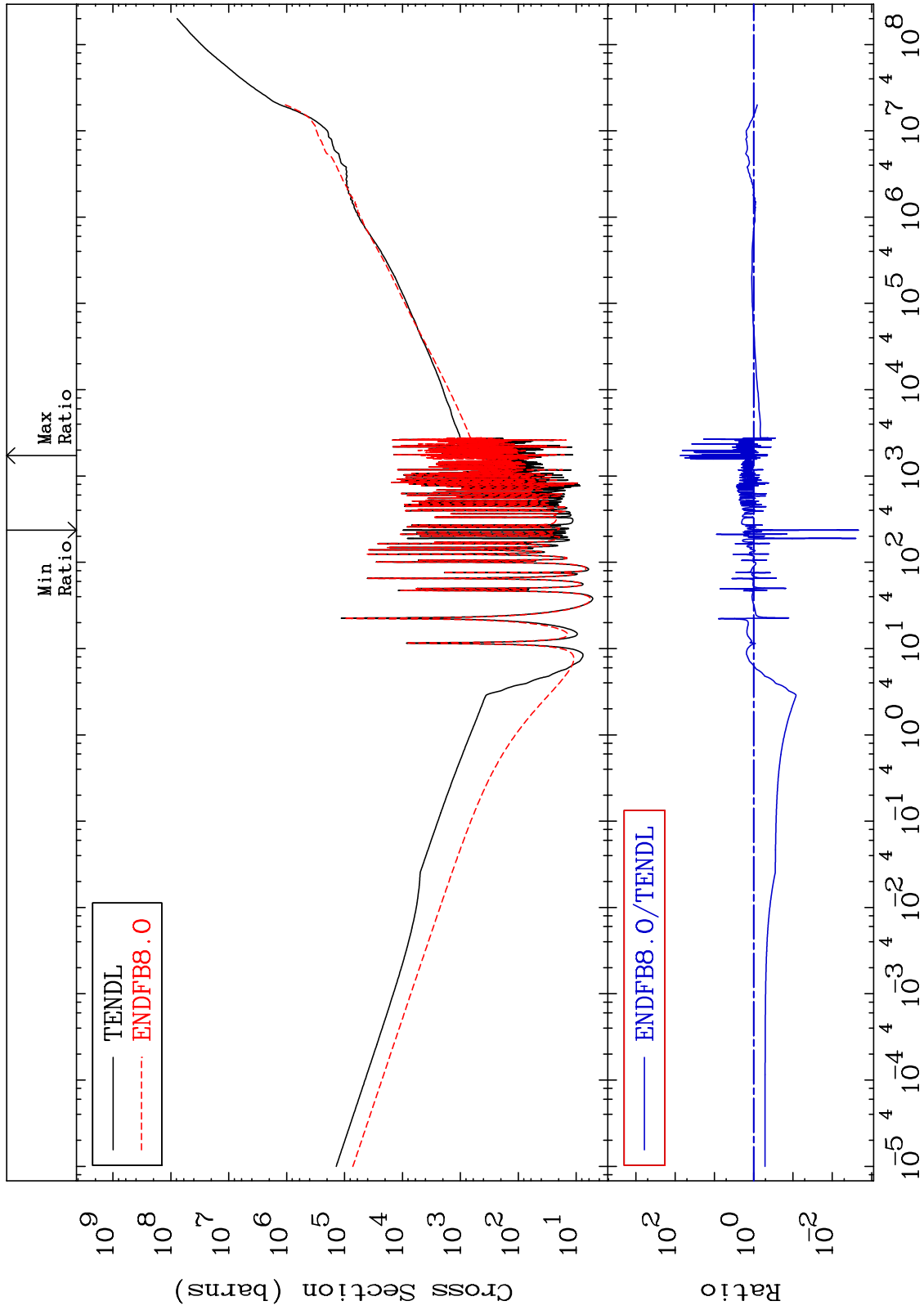
Incident Energy (eV)

64-Gd-154

MAT 6431

Total kinematic kerma (high limit)
Cross Section

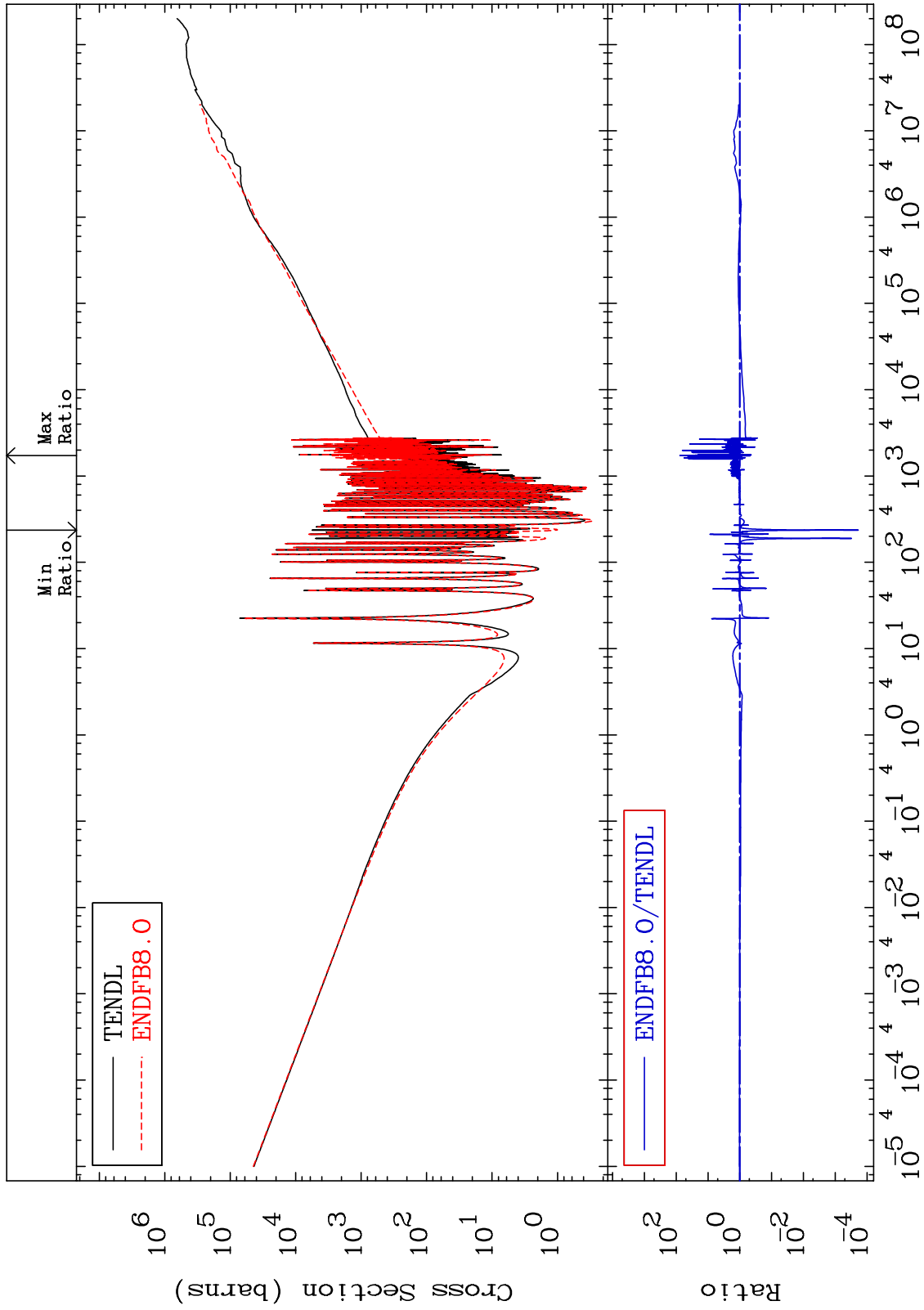
64-Gd-154
-99.78 To 7398. %



MAT 6431

Dpa total (eV-barns)
Cross Section

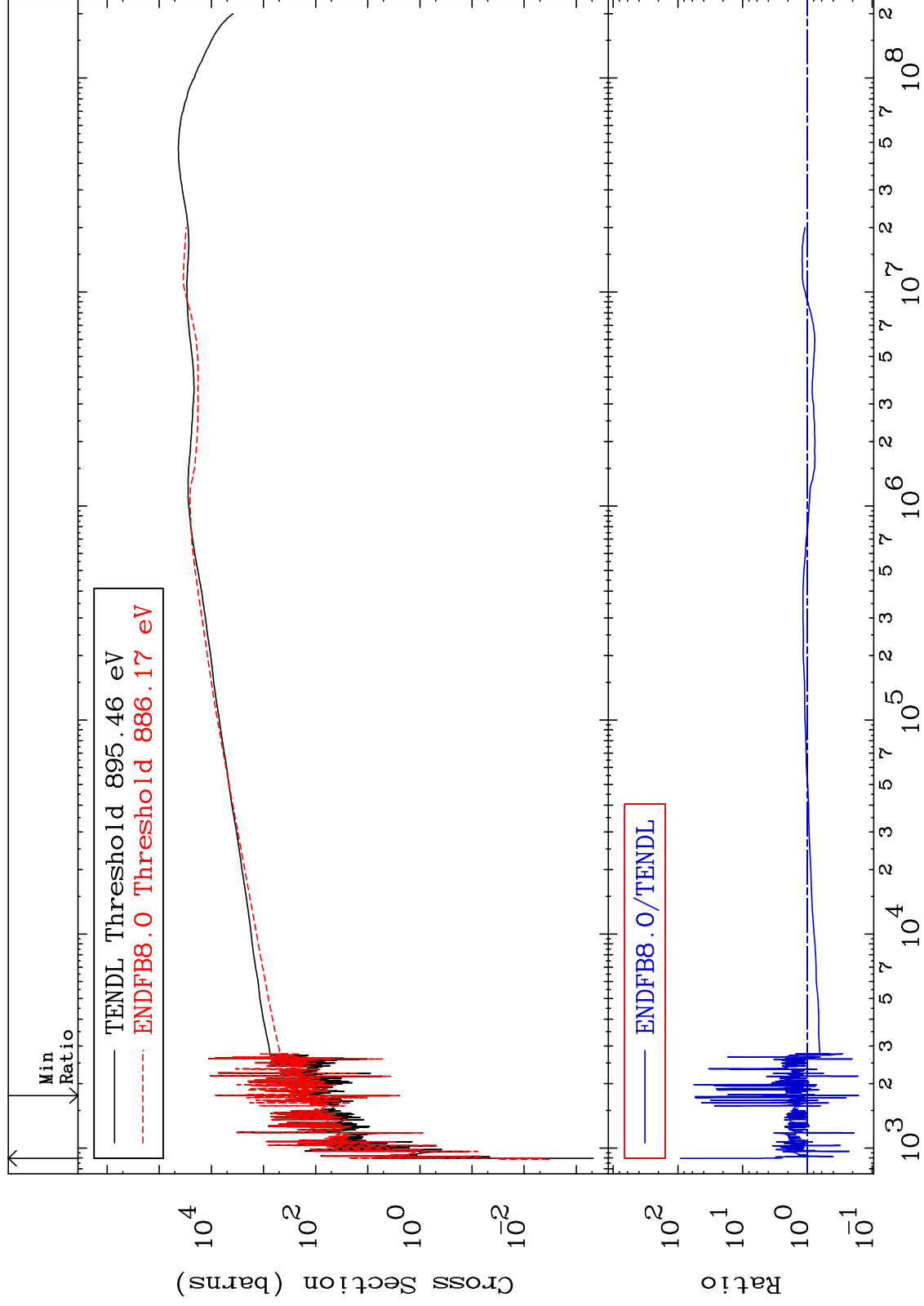
64-Gd-154
-99.98 To 7485. %



MAT 6431

Dpa elastic (mt2)
Cross Section

64-Gd-154
-83.79 To 9035. %



51

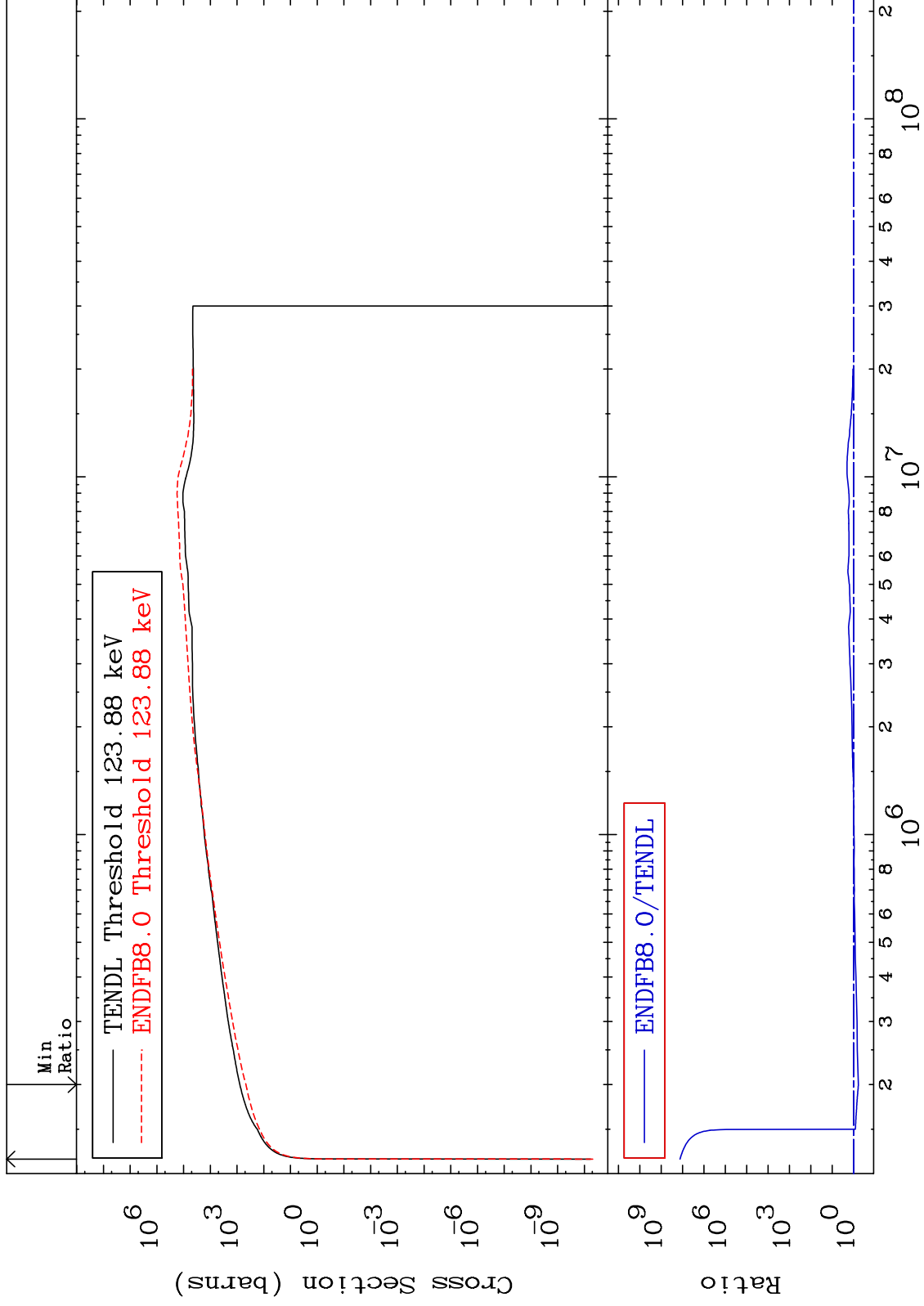
Incident Energy (eV)

64-Gd-154

MAT 6431

Dpa inelastic (mt51-91)
Cross Section

64-Gd-154
-40.69 To 9999. %



52

Incident Energy (eV)

64-Gd-154

MAT 6431

Dpa disappearance (mt102 -120)
Cross Section

64-Gd-154
-99.98 To 9999. %

