

Program Complot
(Version 2018-1)

by

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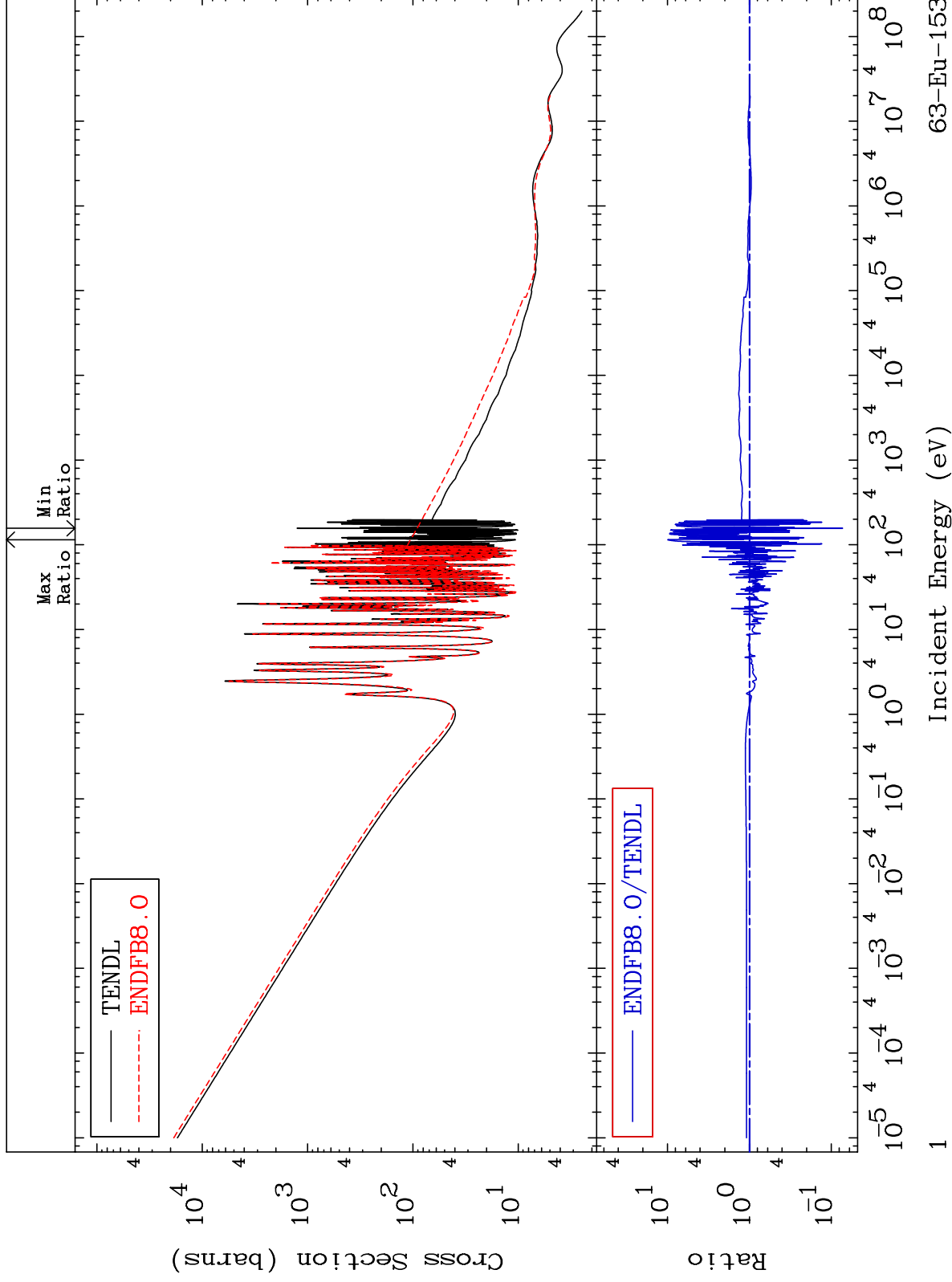
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6331

Total
Cross Section

63-Eu-153
-92.73 To 899.7 %



63-Eu-153

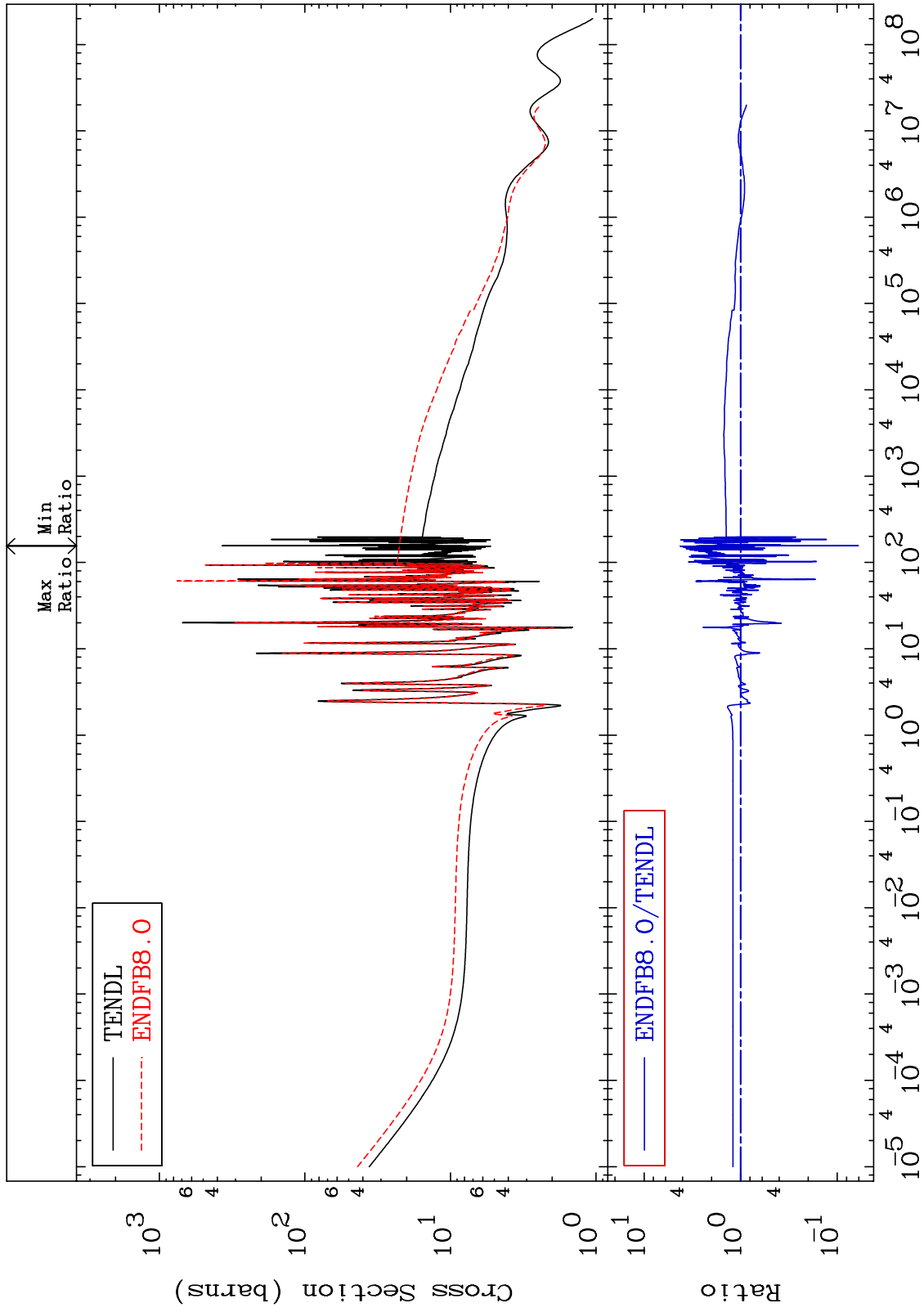
MAT 6331

Elastic

63-Eu-153

Cross Section

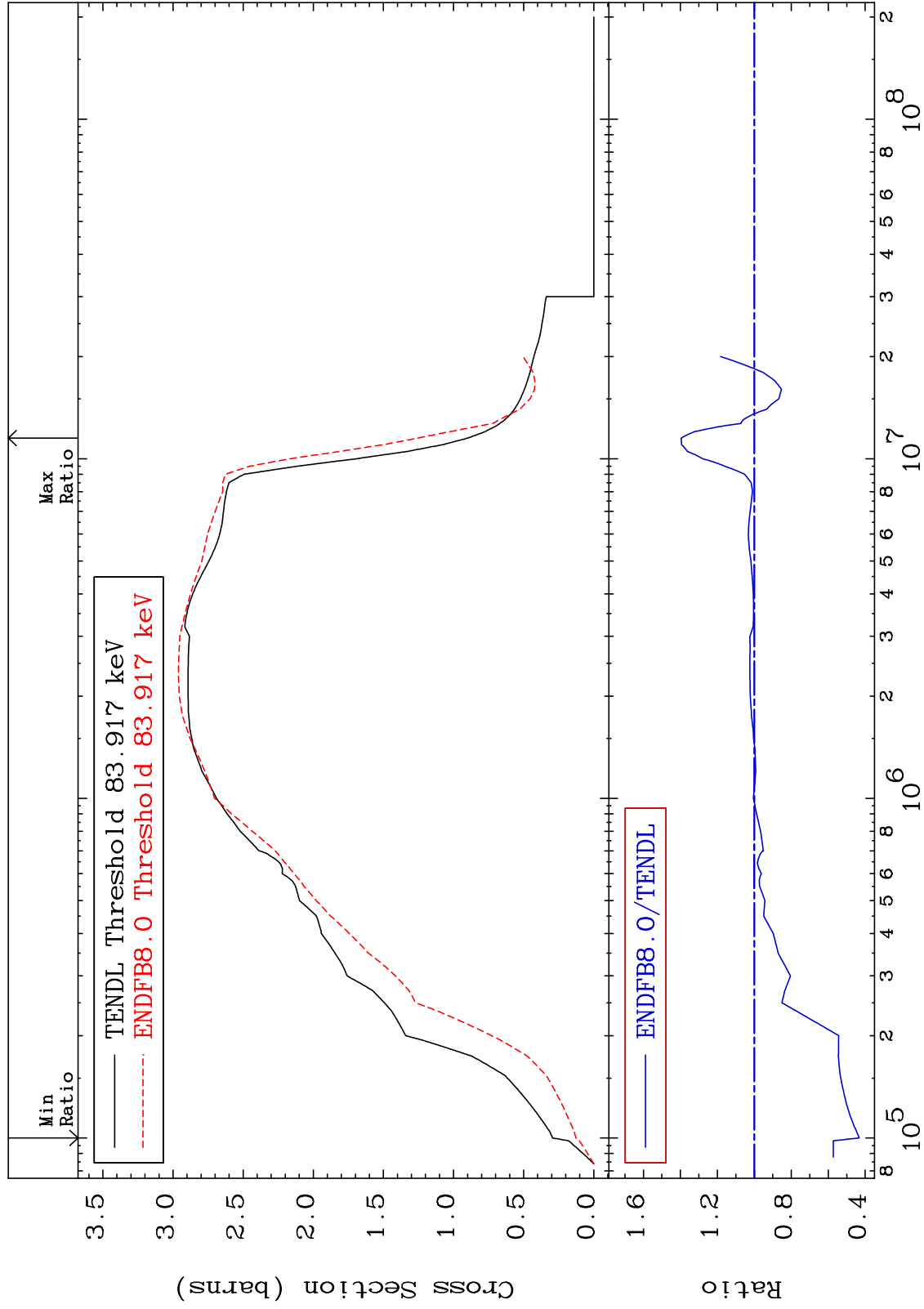
-93.95 To 324.6 %



MAT 6331

Inelastic
Cross Section

63-Eu-153
-56.79 To 39.64 %



3

Incident Energy (eV)

63-Eu-153

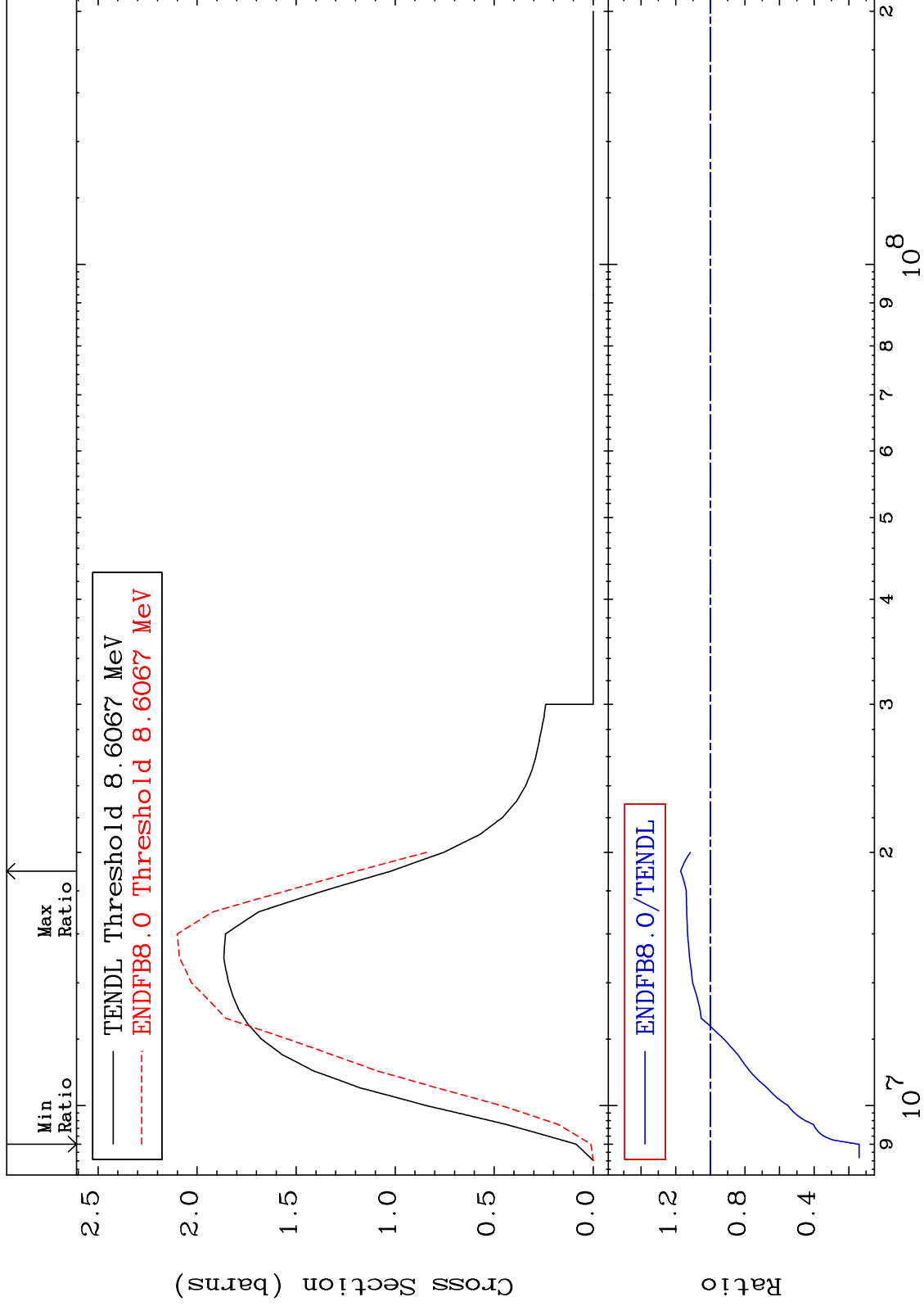
MAT 6331

(n,2n)

63-Eu-153

Cross Section

-86.00 To 17.14 %



4

Incident Energy (eV)

63-Eu-153

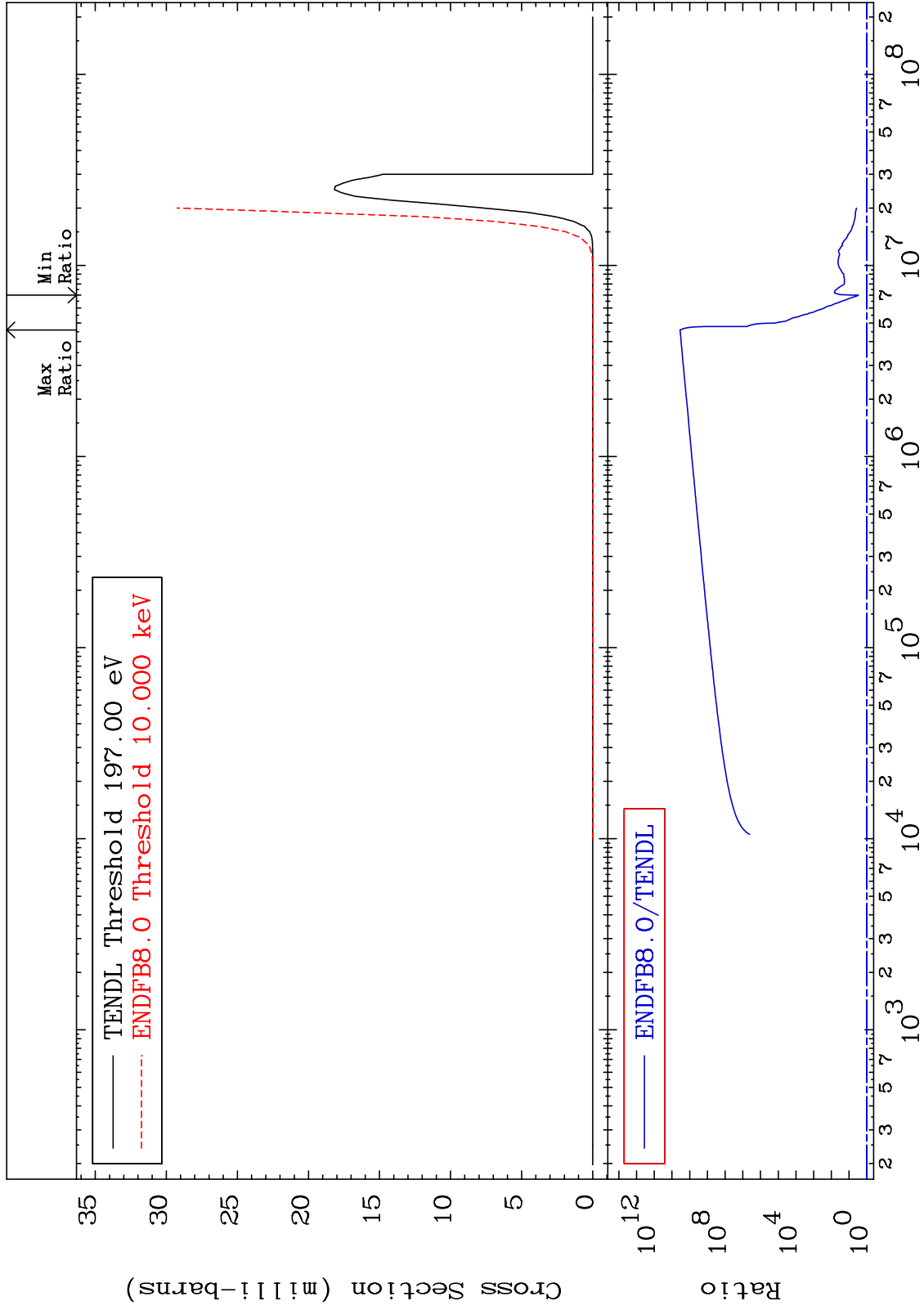
MAT 6331

(n, n') α

63-Eu-153

Cross Section

196.3 To 9999. %



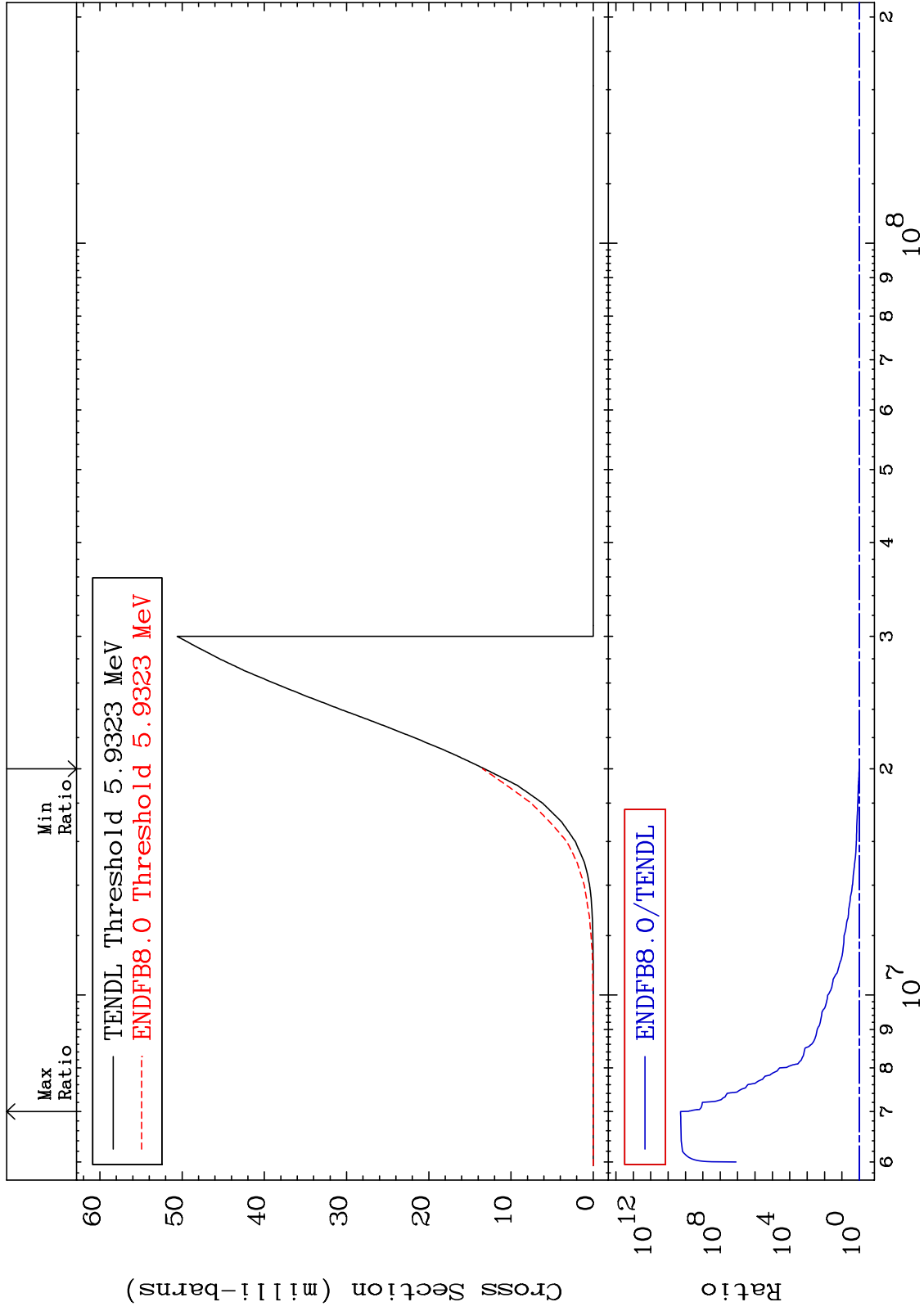
MAT 6331

(n,n') p

63-Eu-153

Cross Section

1.649 To 9999. %



7

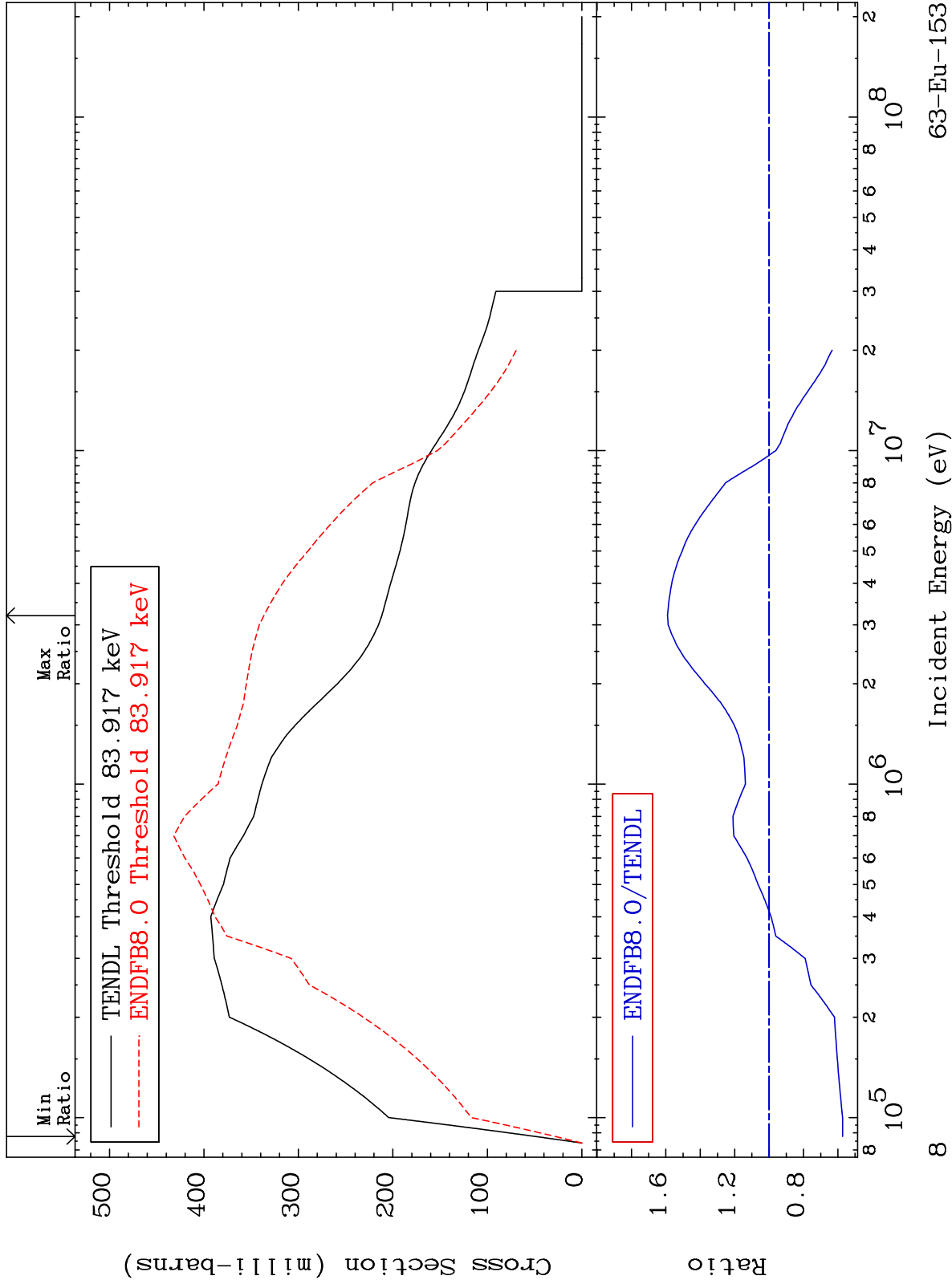
Incident Energy (eV)

63-Eu-153

MAT 6331

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

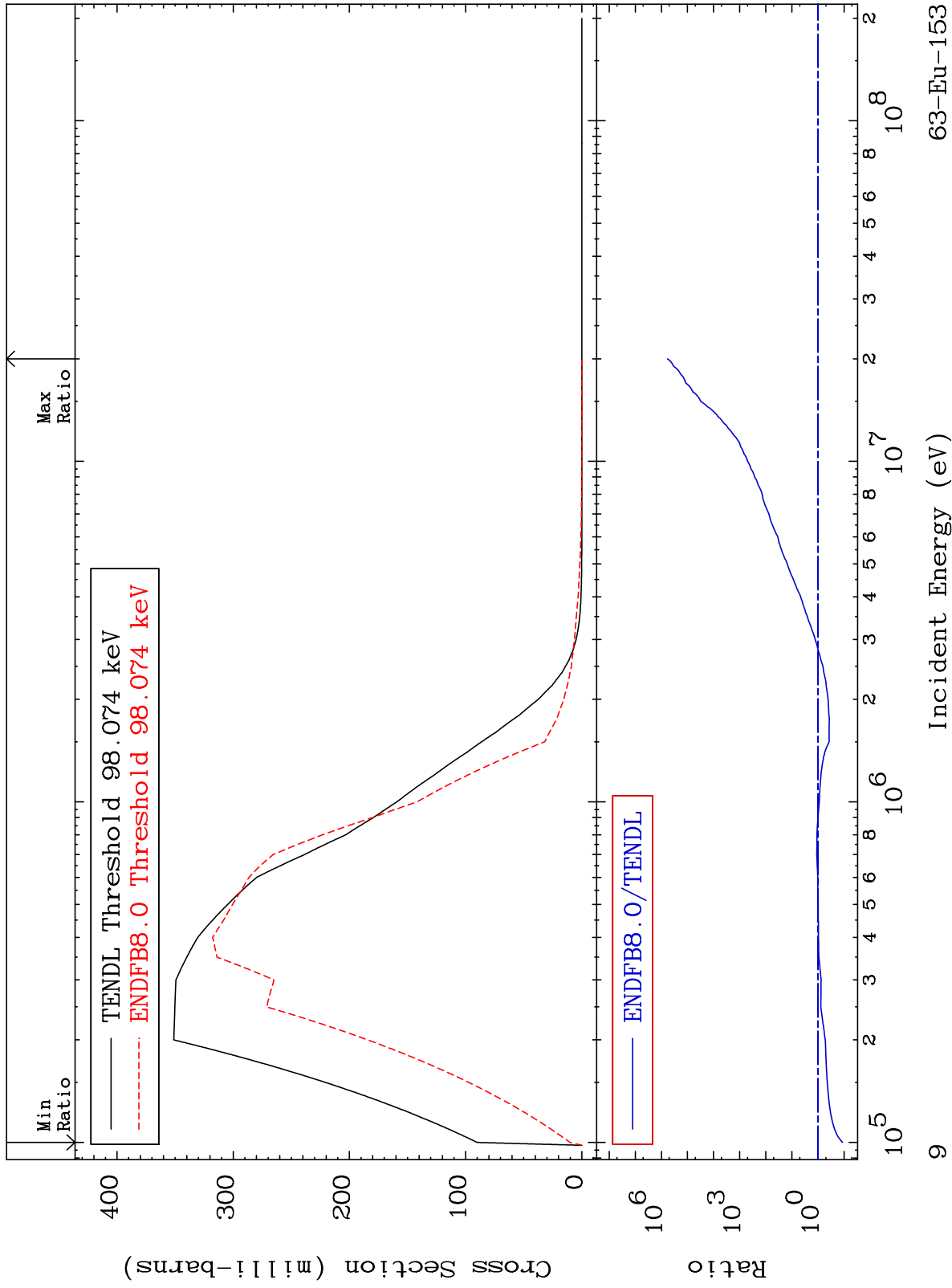
63-Eu-153
-42.78 To 59.03 %



MAT 6331

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

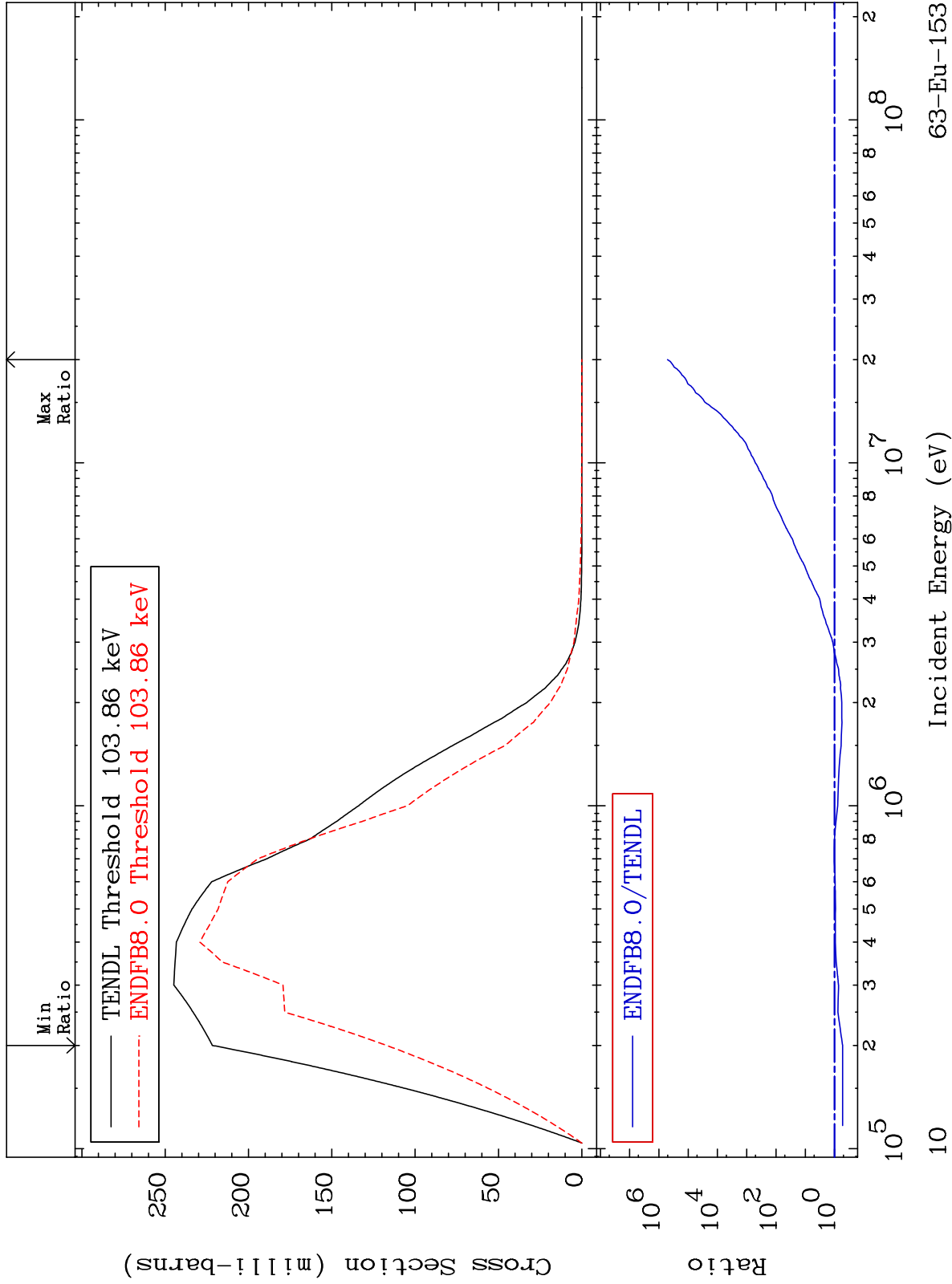
63-Eu-153
-88.68 To 9999. %



MAT 6331

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

63-Eu-153
-47.11 To 9999. %

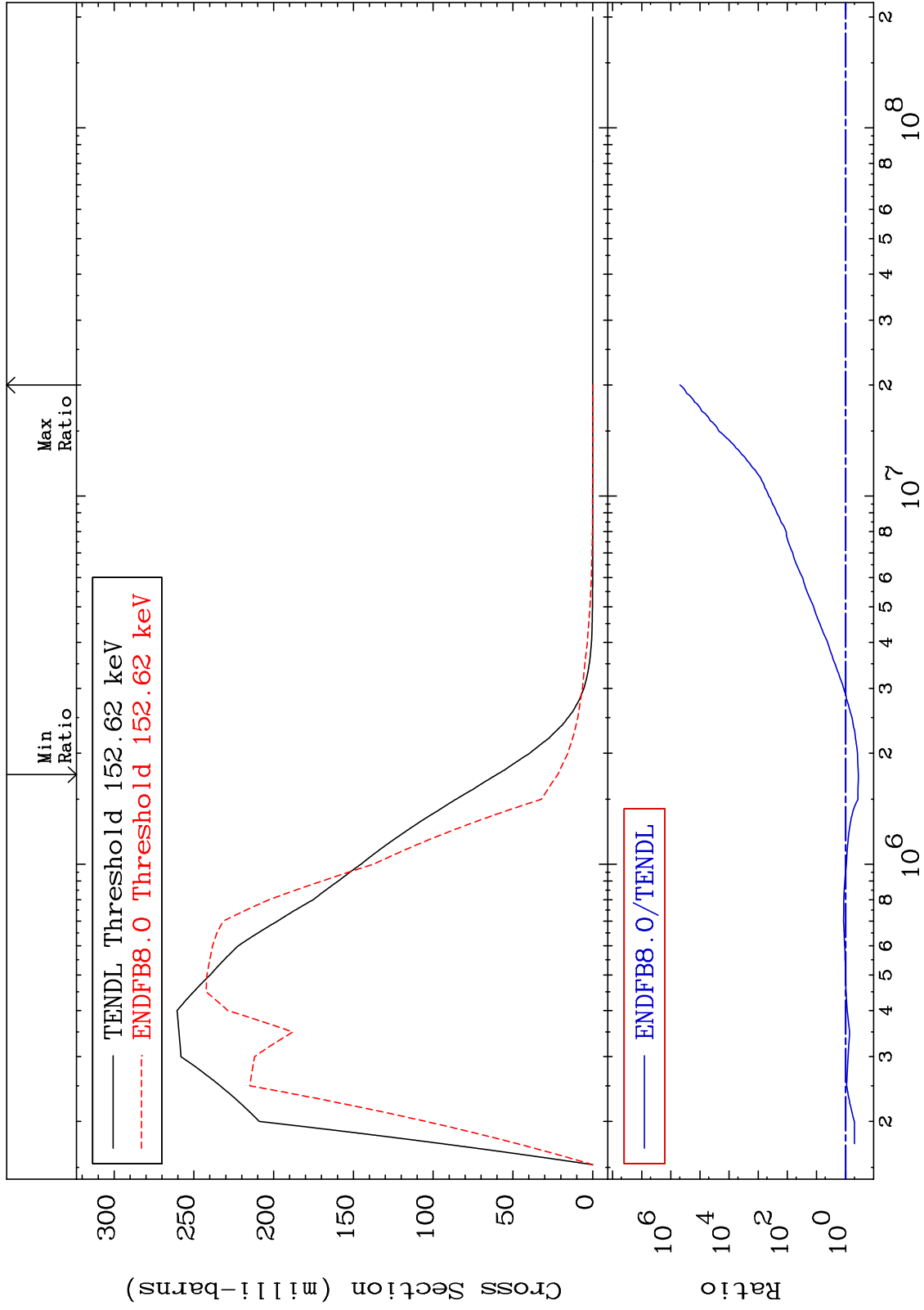


63-Eu-153

MAT 6331

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

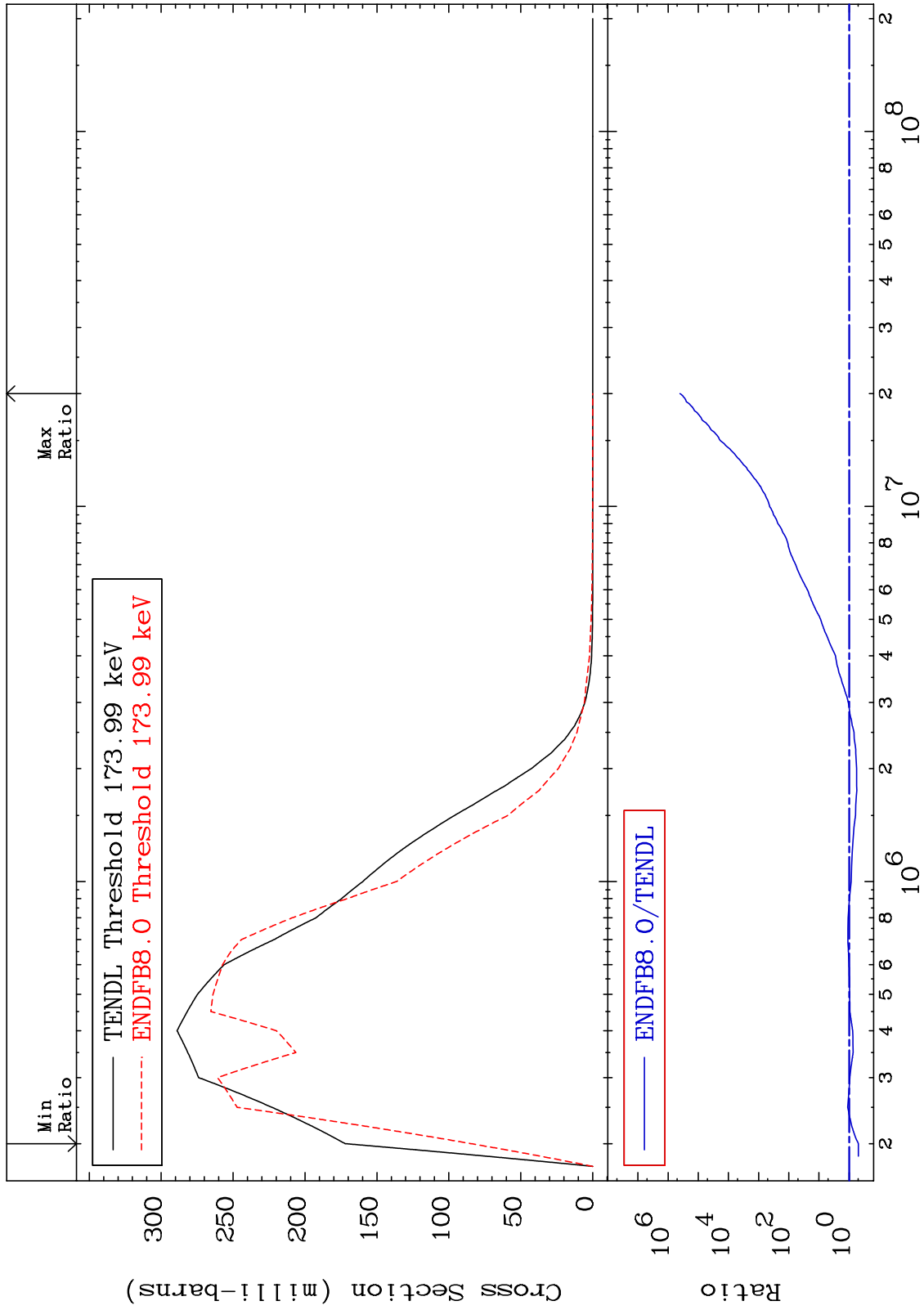
63-Eu-153
-63.63 To 9999. %



MAT 6331

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

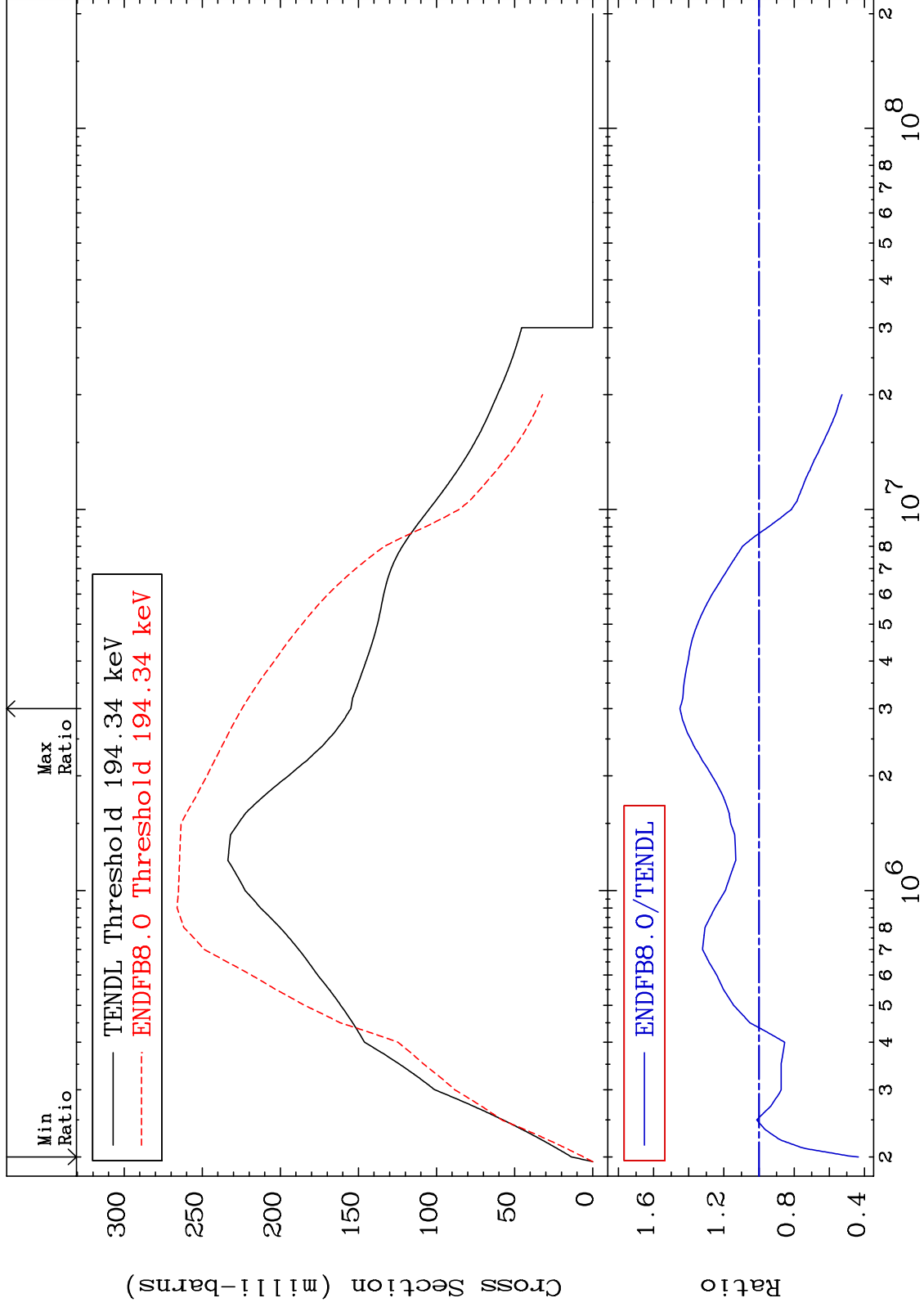
63-Eu-153
-50.85 To 9999. %



MAT 6331

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

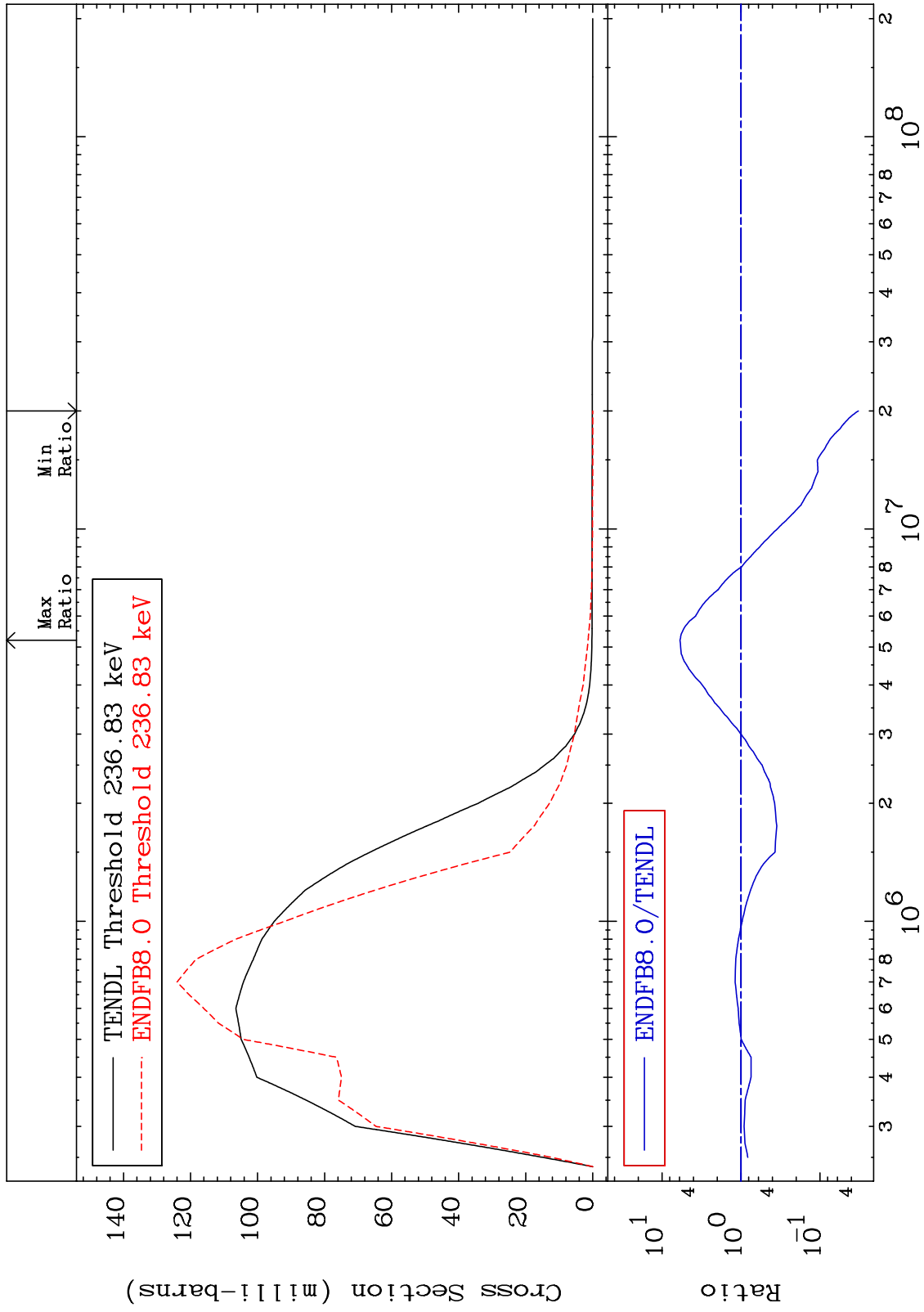
63-Eu-153
-56.58 To 44.98 %



MAT 6331

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

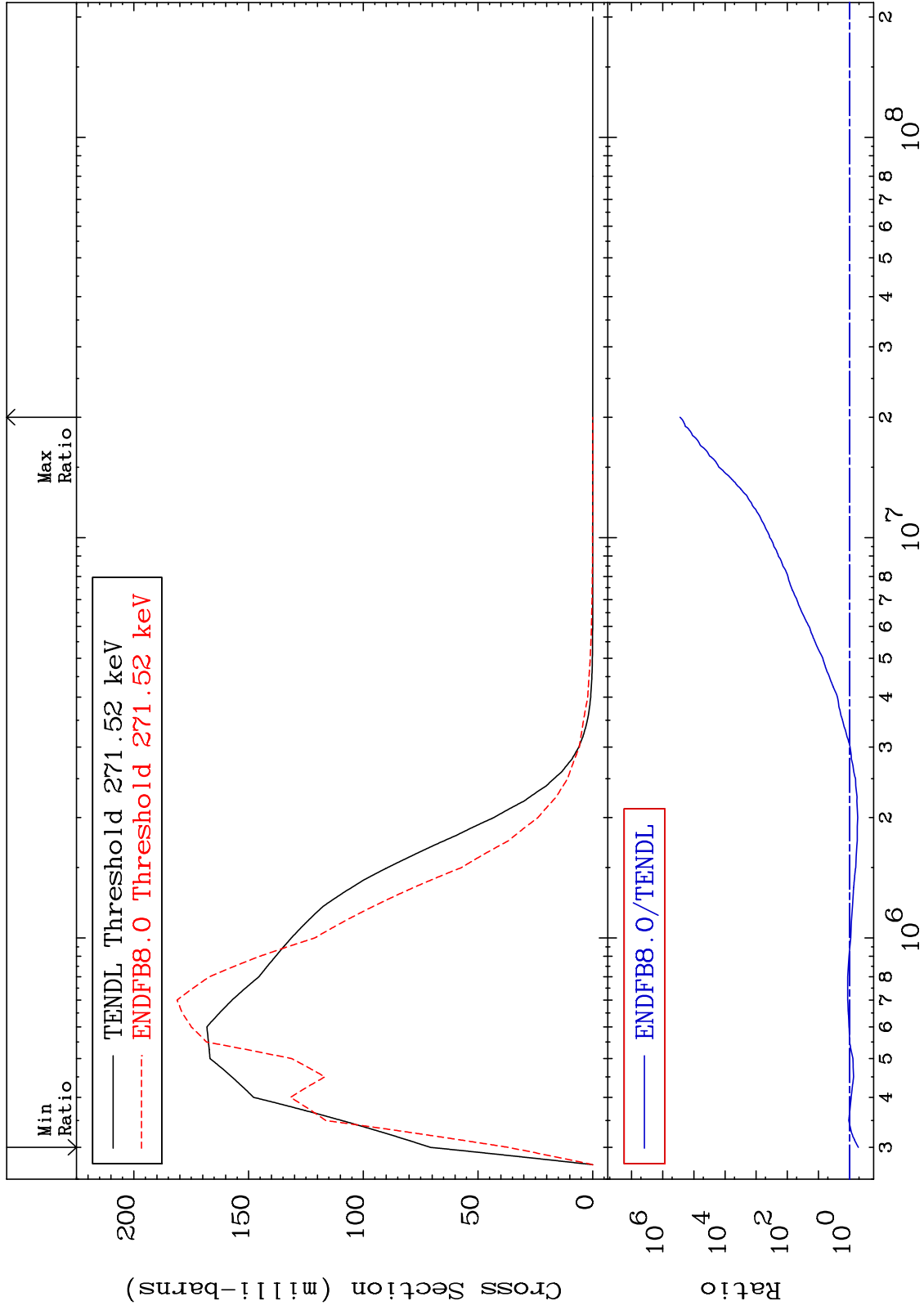
63-Eu-153
-96.74 To 493.1 %



MAT 6331

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

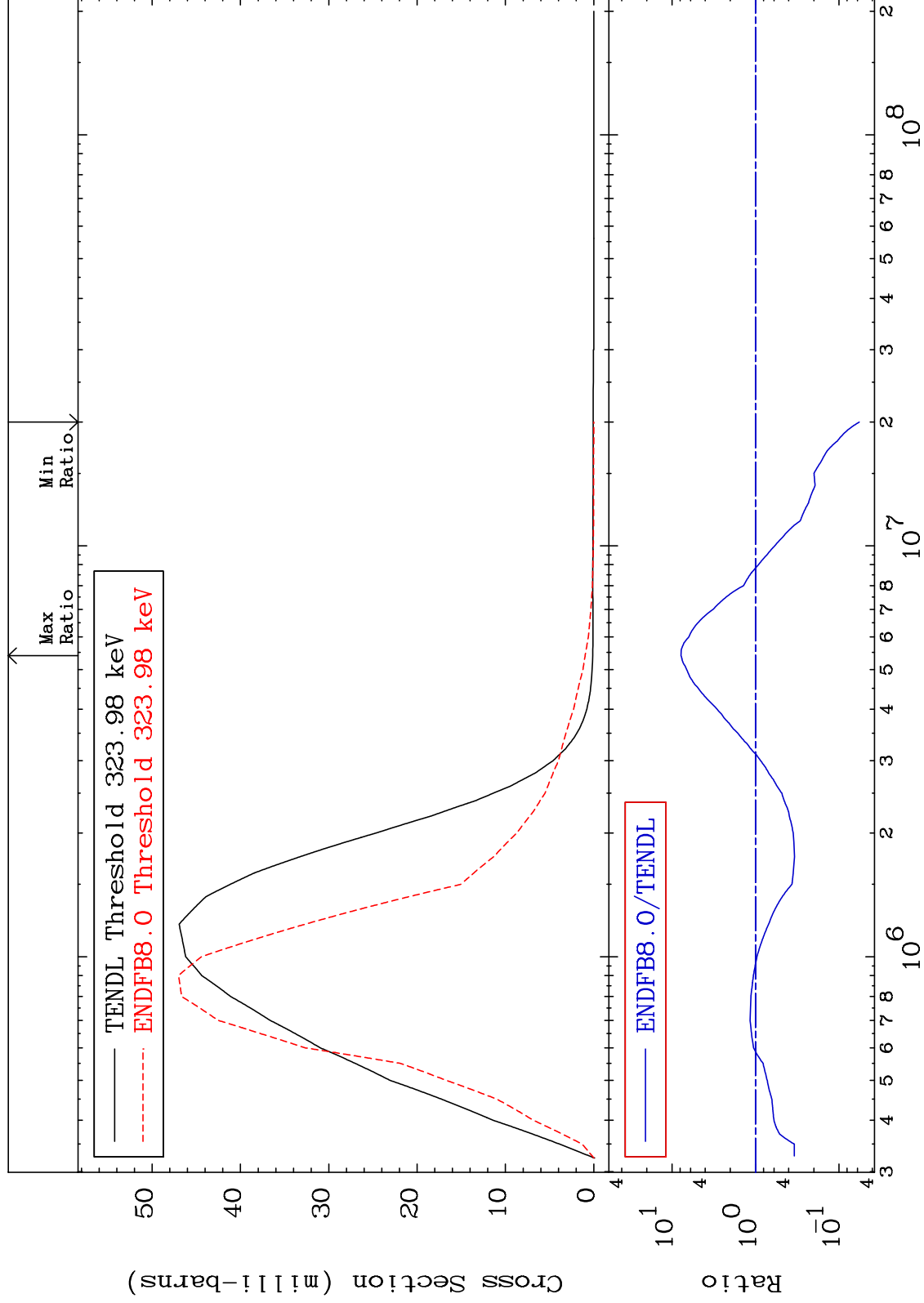
63-Eu-153
-47.88 To 9999. %



MAT 6331

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

63-Eu-153
-94.28 To 678.3 %



16

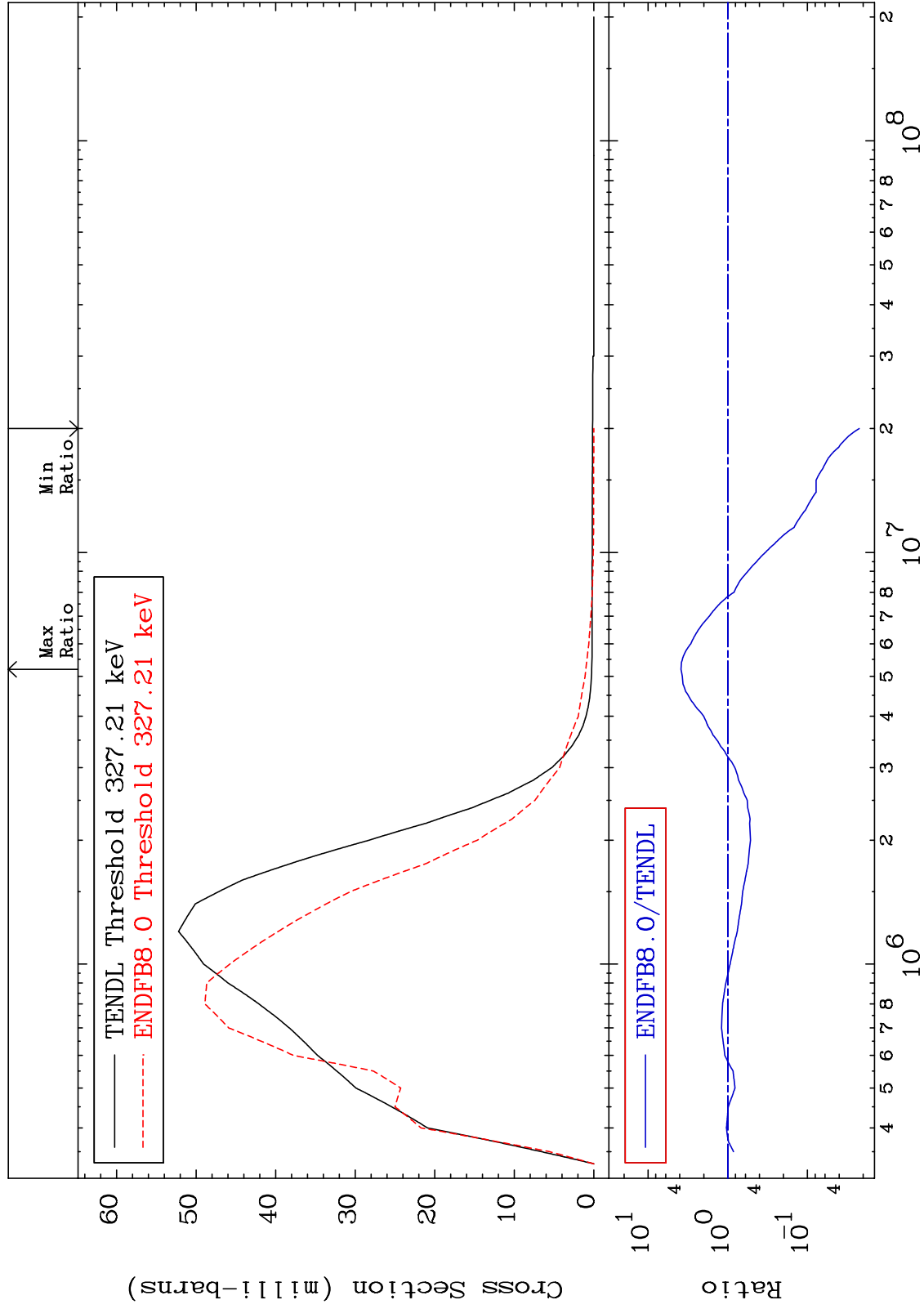
Incident Energy (eV)

63-Eu-153

MAT 6331

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

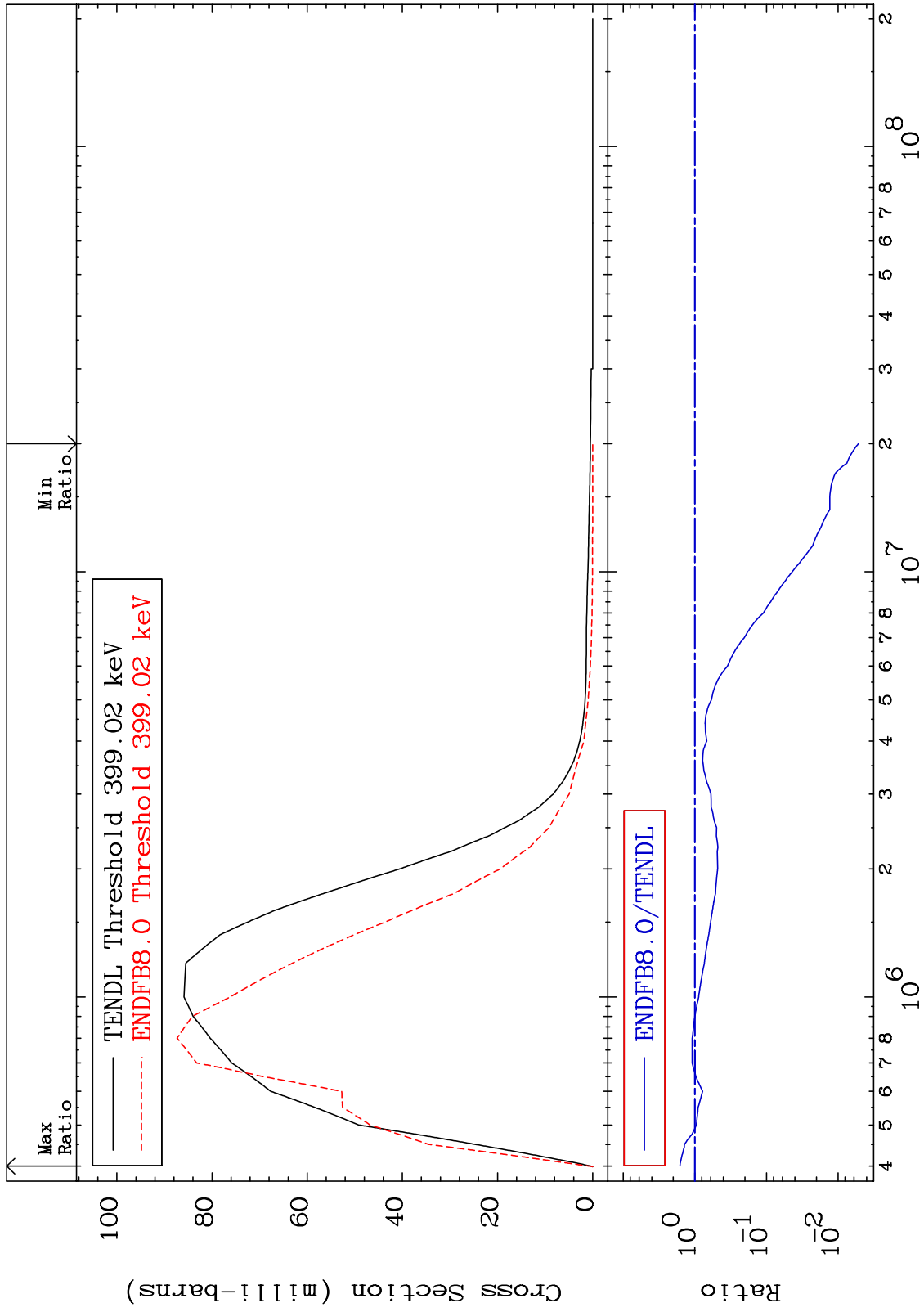
63-Eu-153
-97.77 To 285.5 %



MAT 6331

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

63-Eu-153
-99.48 To 61.11 %



18

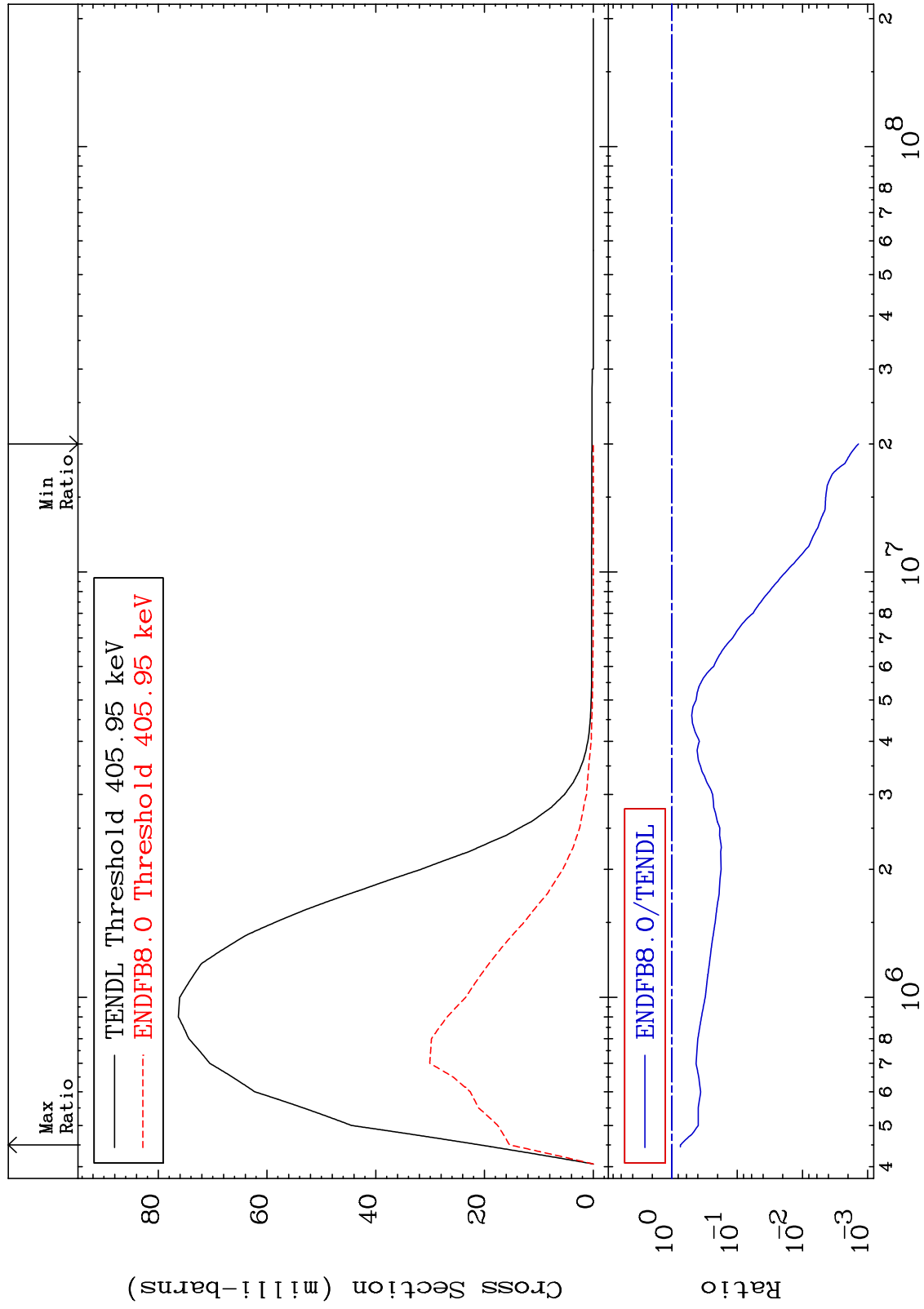
Incident Energy (eV)

63-Eu-153

MAT 6331

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

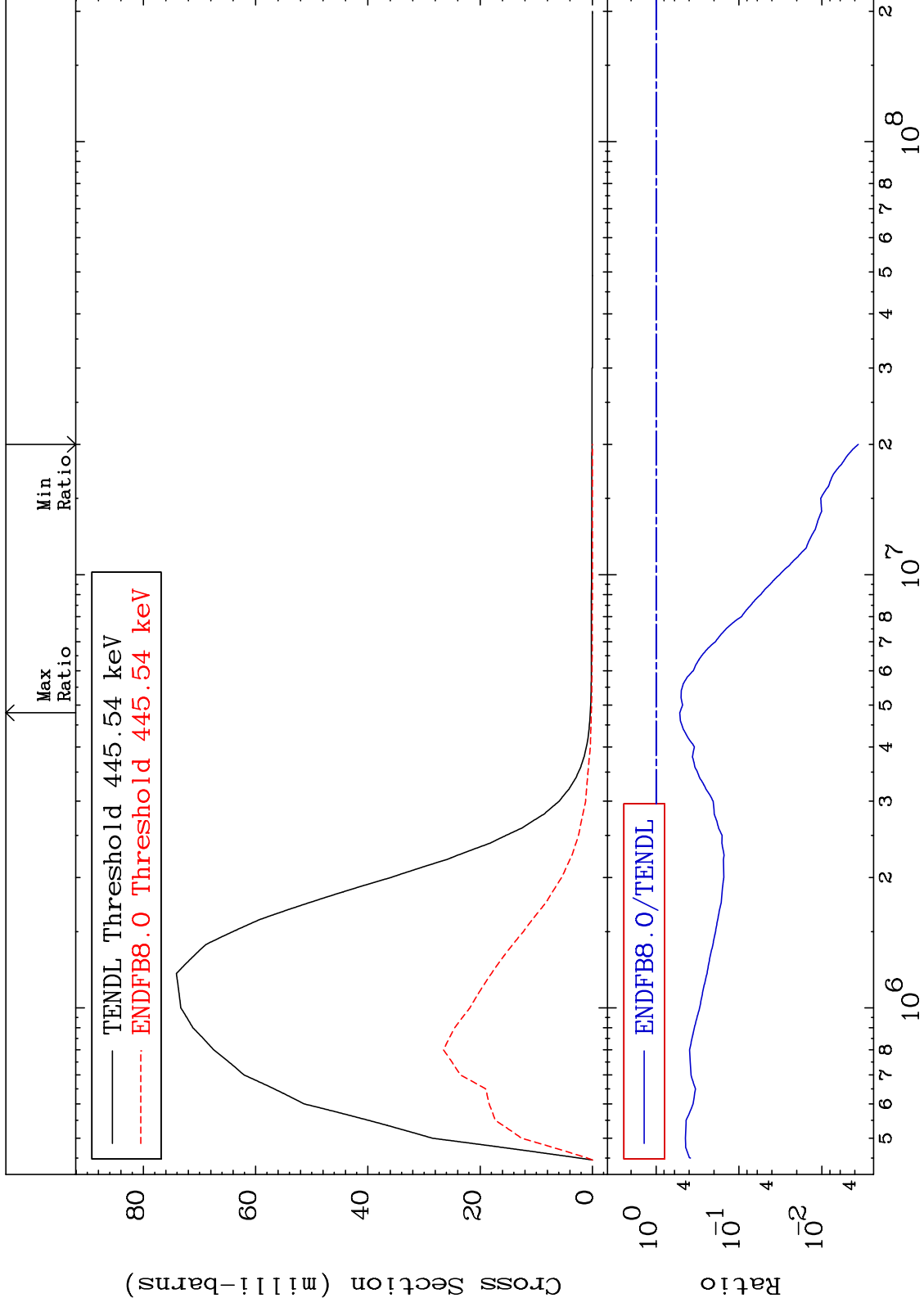
63-Eu-153
-99.86 To -25.97%



MAT 6331

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

63-Eu-153
-99.64 To -48.30%



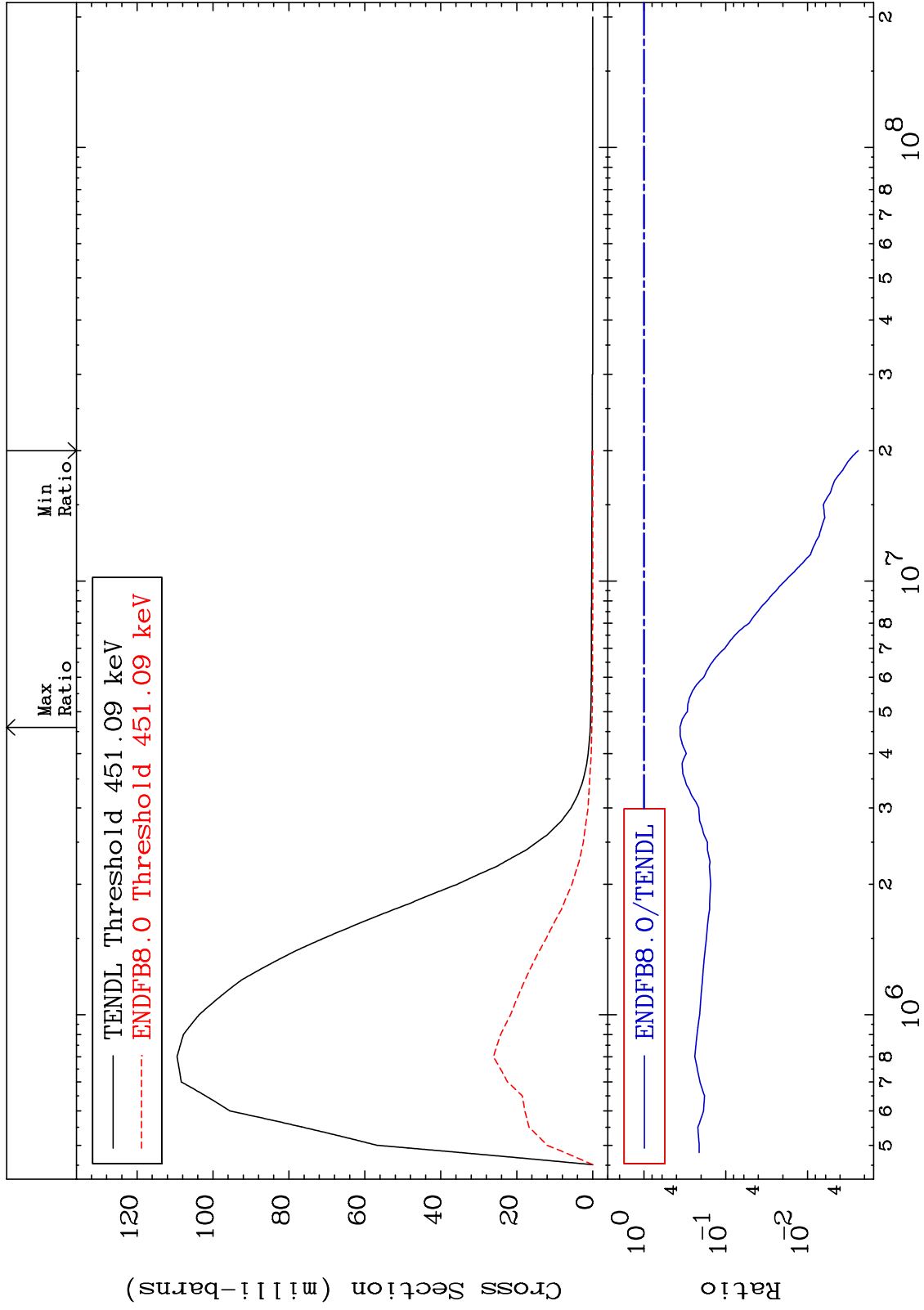
20

63-Eu-153

MAT 6331

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

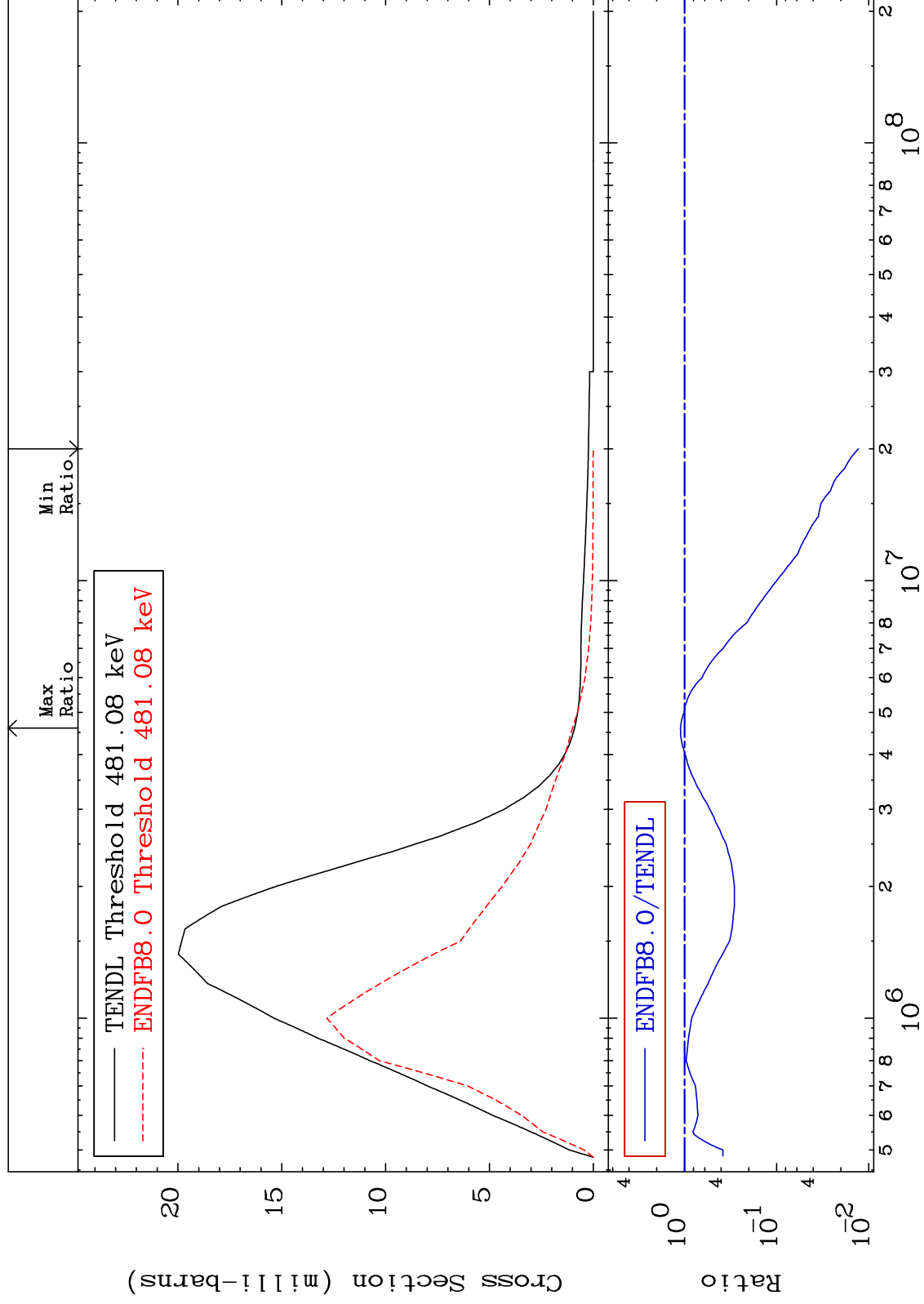
63-Eu-153
-99.76 To -63.73%



MAT 6331

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

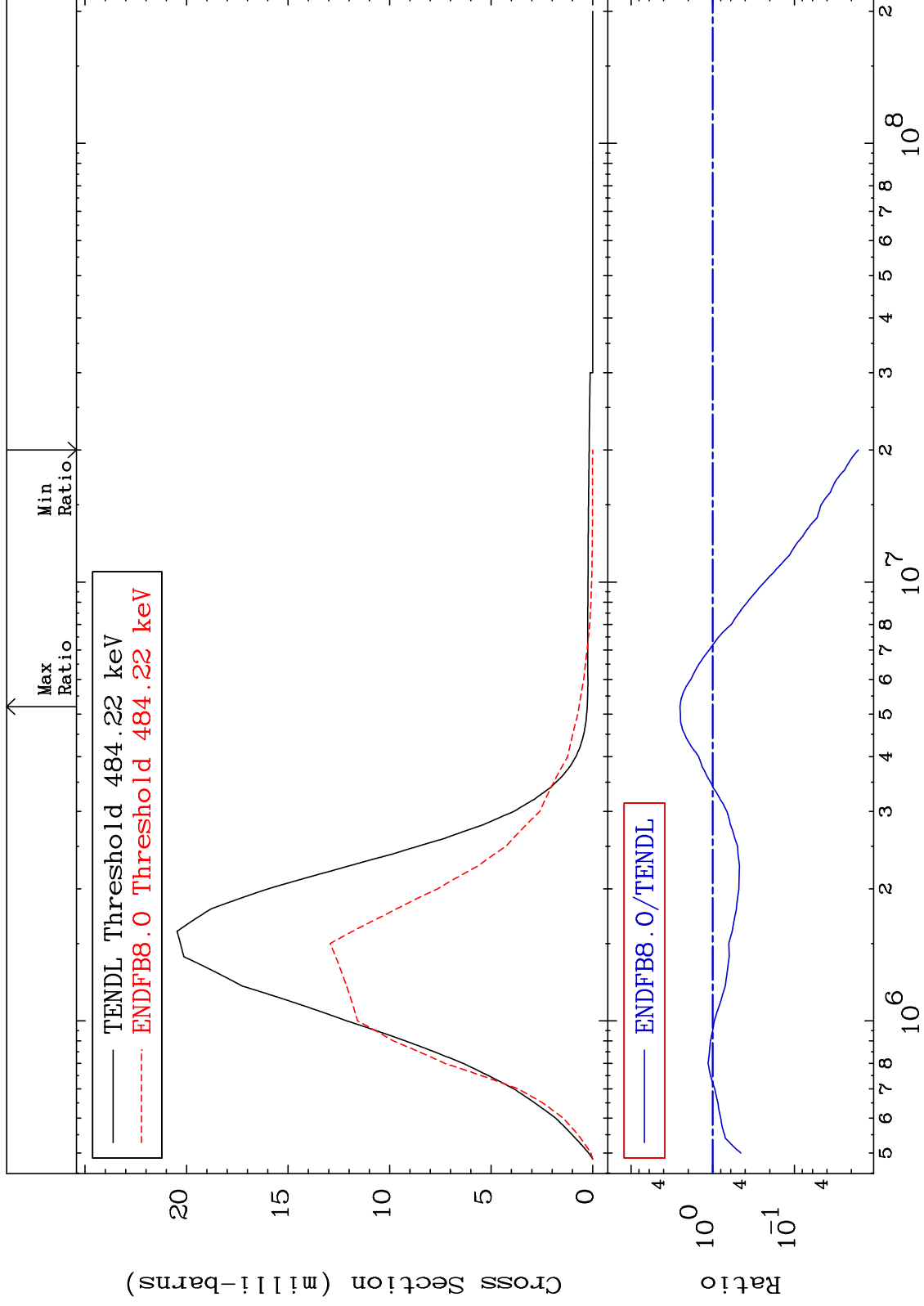
63-Eu-153
-98.71 To 10.44 %



MAT 6331

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

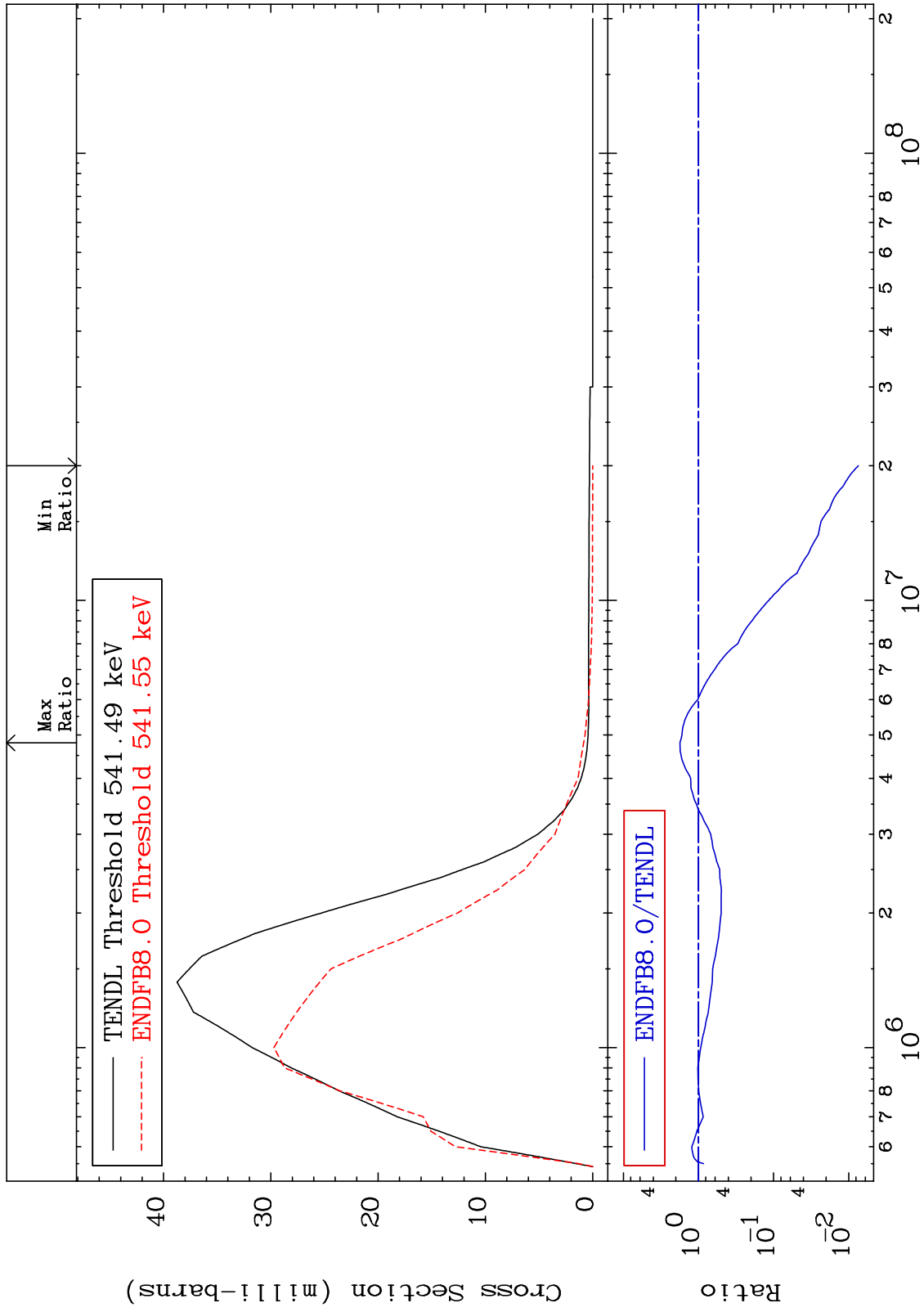
63-Eu-153
-98.36 To 151.6 %



MAT 6331

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

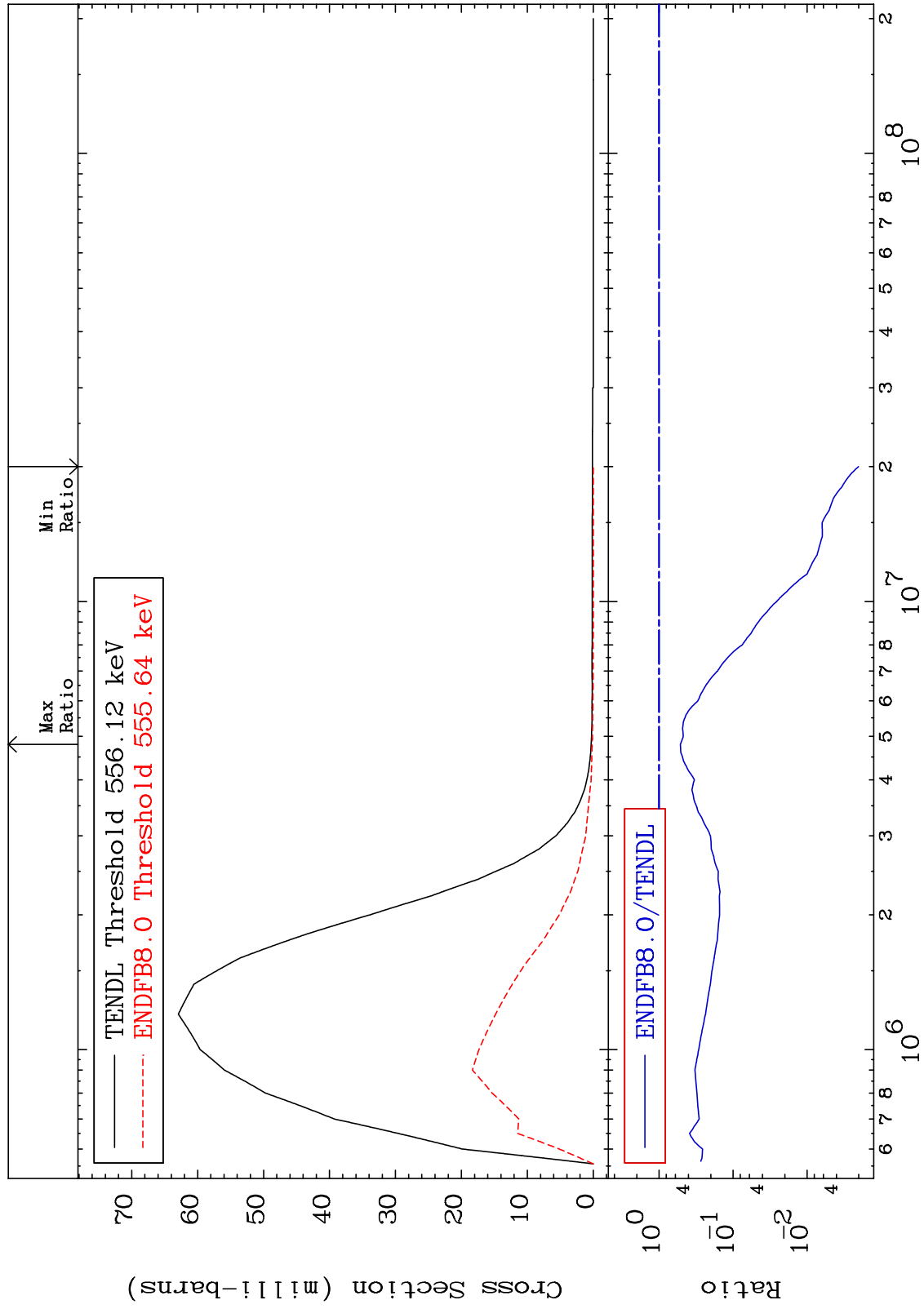
63-Eu-153
-99.26 To 76.24 %



MAT 6331

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

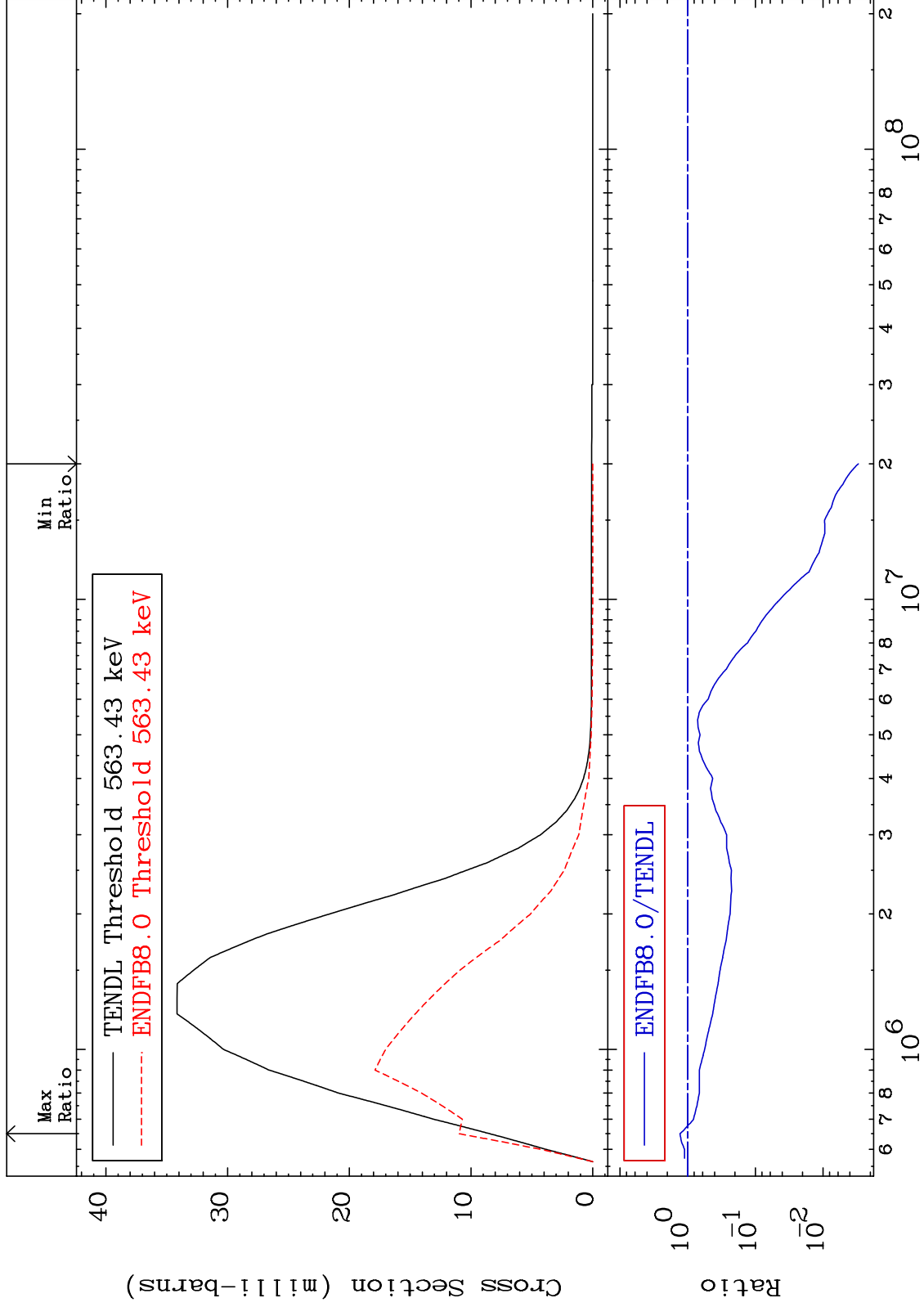
63-Eu-153
-99.80 To -48.64%



MAT 6331

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

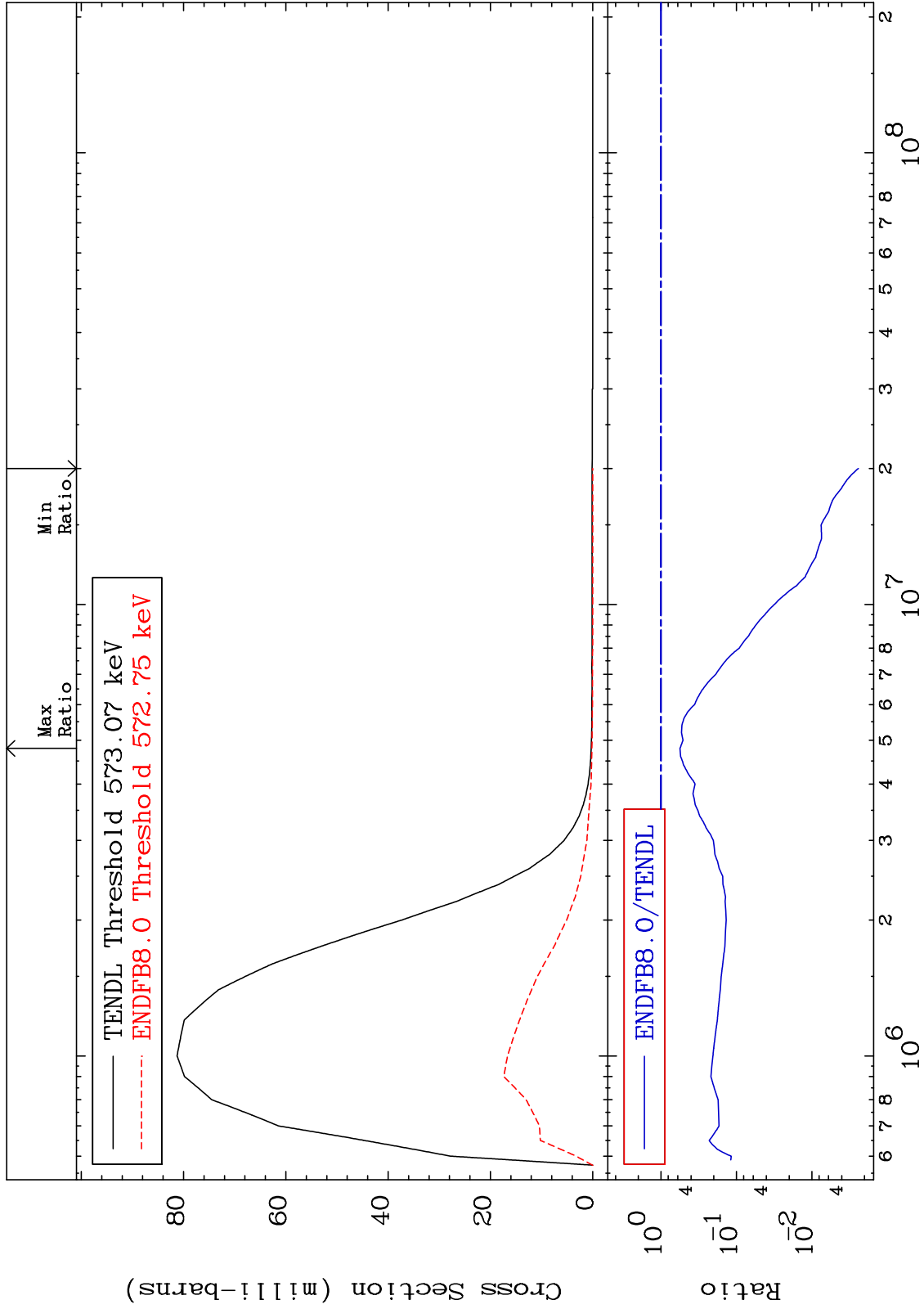
63-Eu-153
-99.70 To 29.76 %



MAT 6331

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

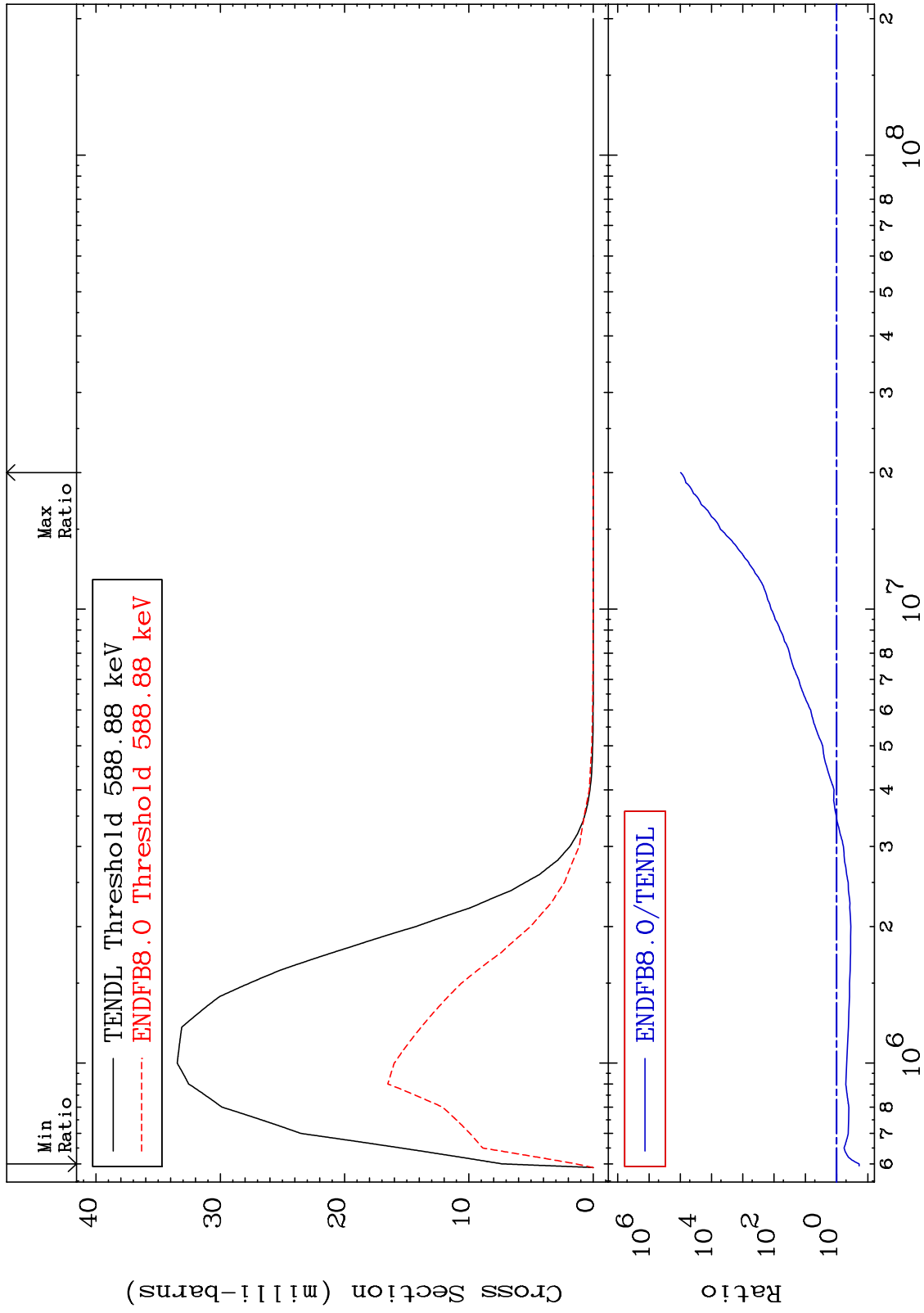
63-Eu-153
-99.76 To -44.12%



MAT 6331

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

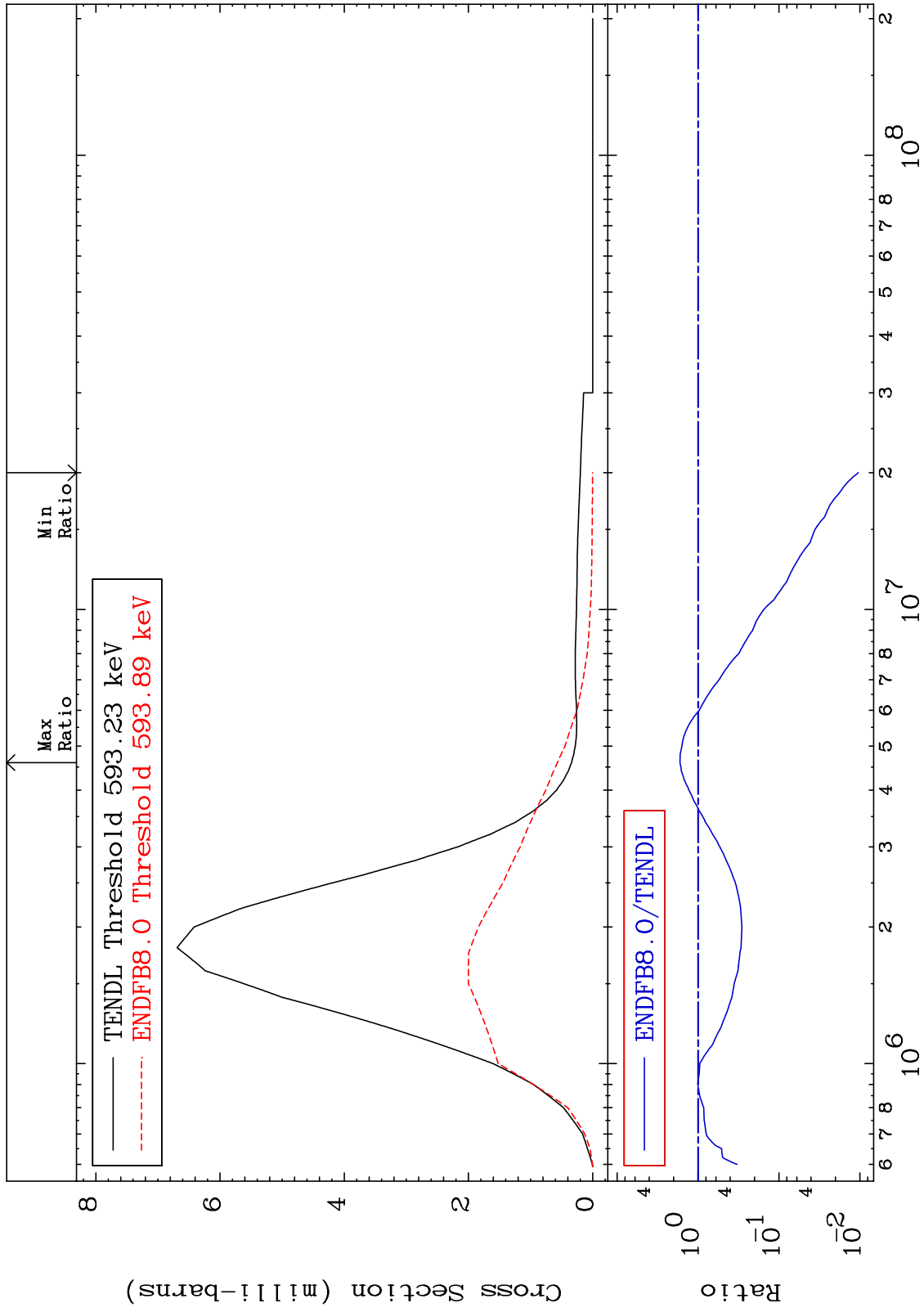
63-Eu-153
-81.06 To 9999. %



MAT 6331

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

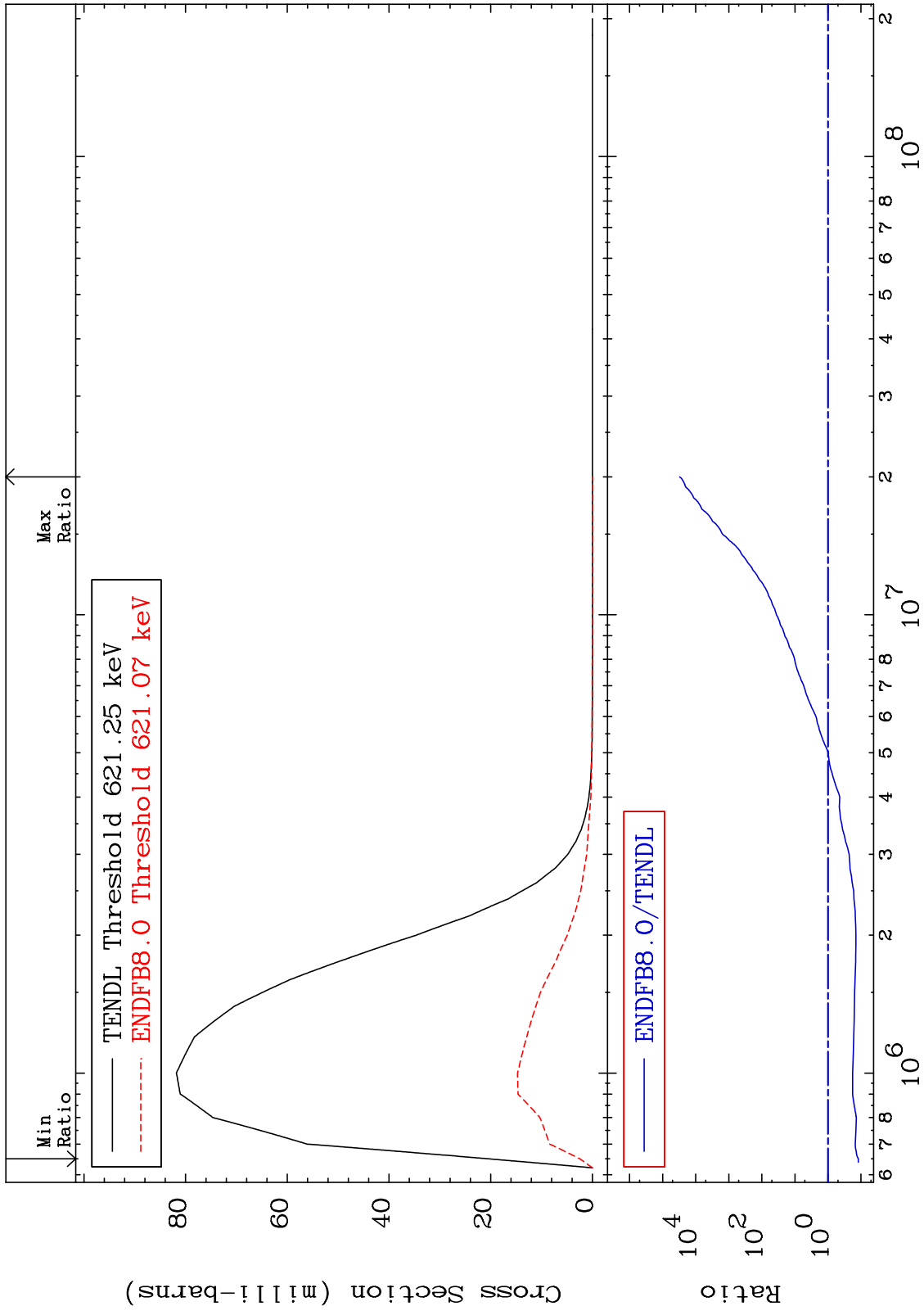
63-Eu-153
-98.96 To 66.75 %



MAT 6331

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

63-Eu-153
-87.96 To 9999. %



30

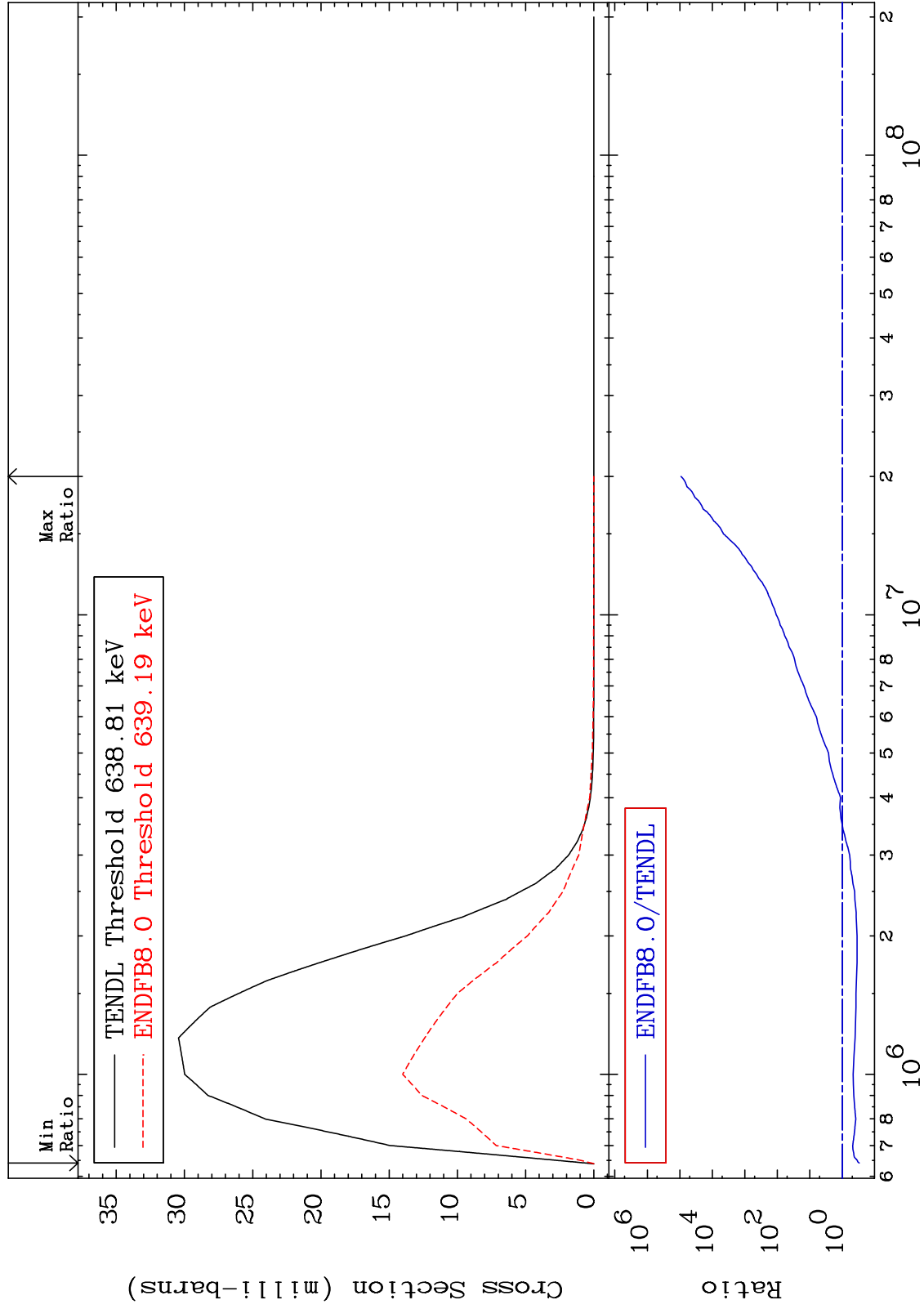
63-Eu-153

63-Eu-153

MAT 6331

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

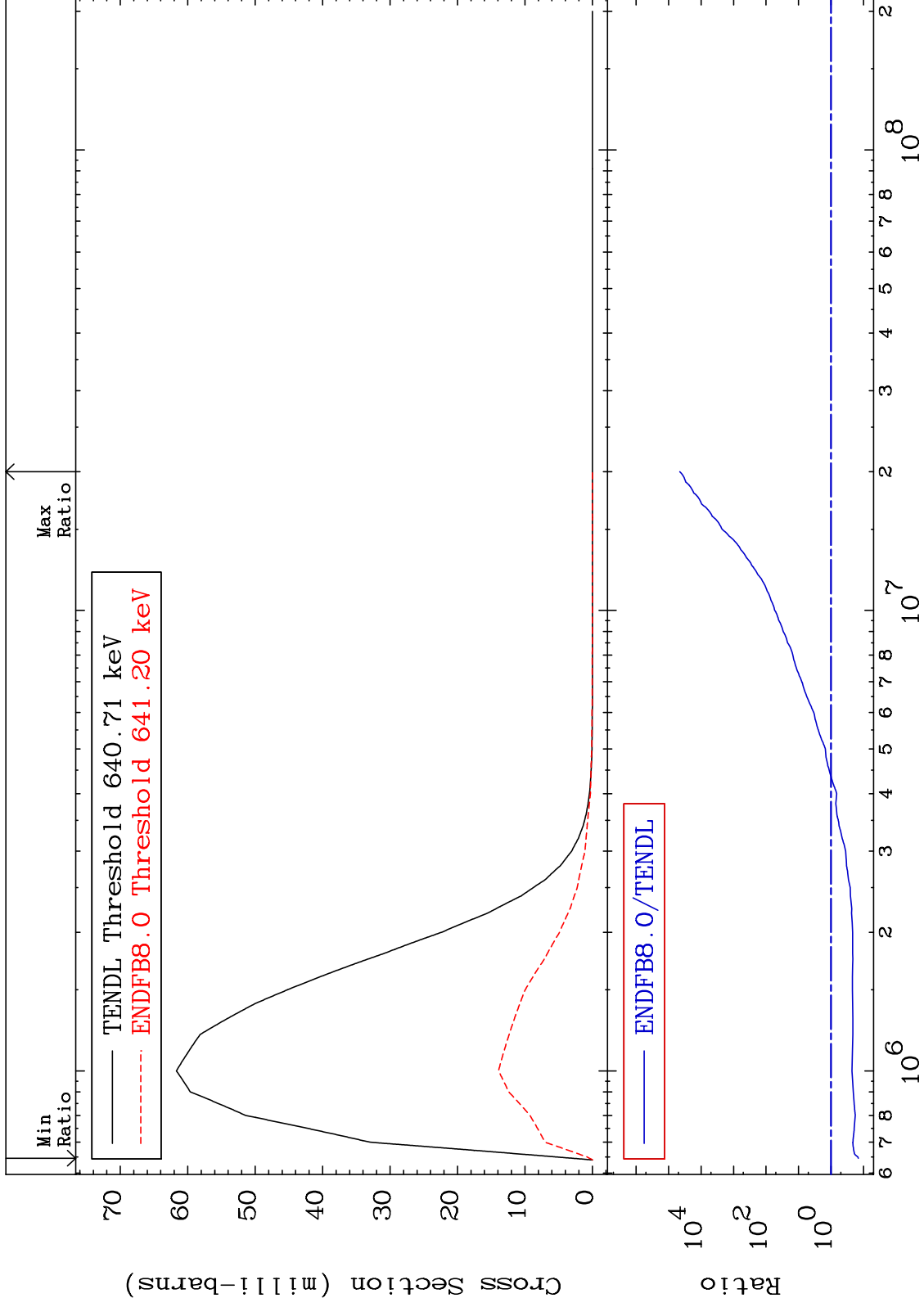
63-Eu-153
-69.78 To 9999. %



MAT 6331

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

63-Eu-153
-85.56 To 9999. %



32

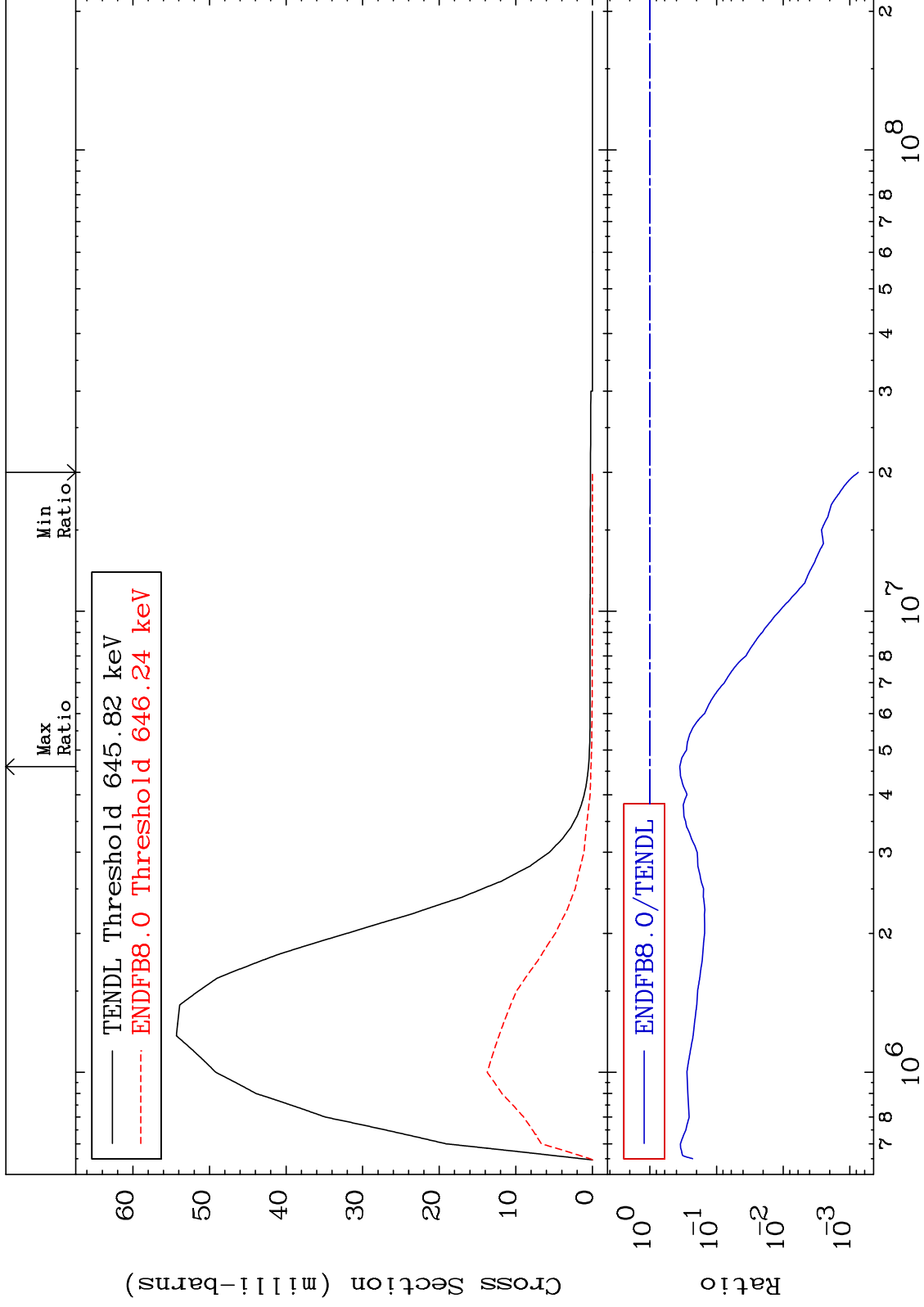
Incident Energy (eV)

63-Eu-153

MAT 6331

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

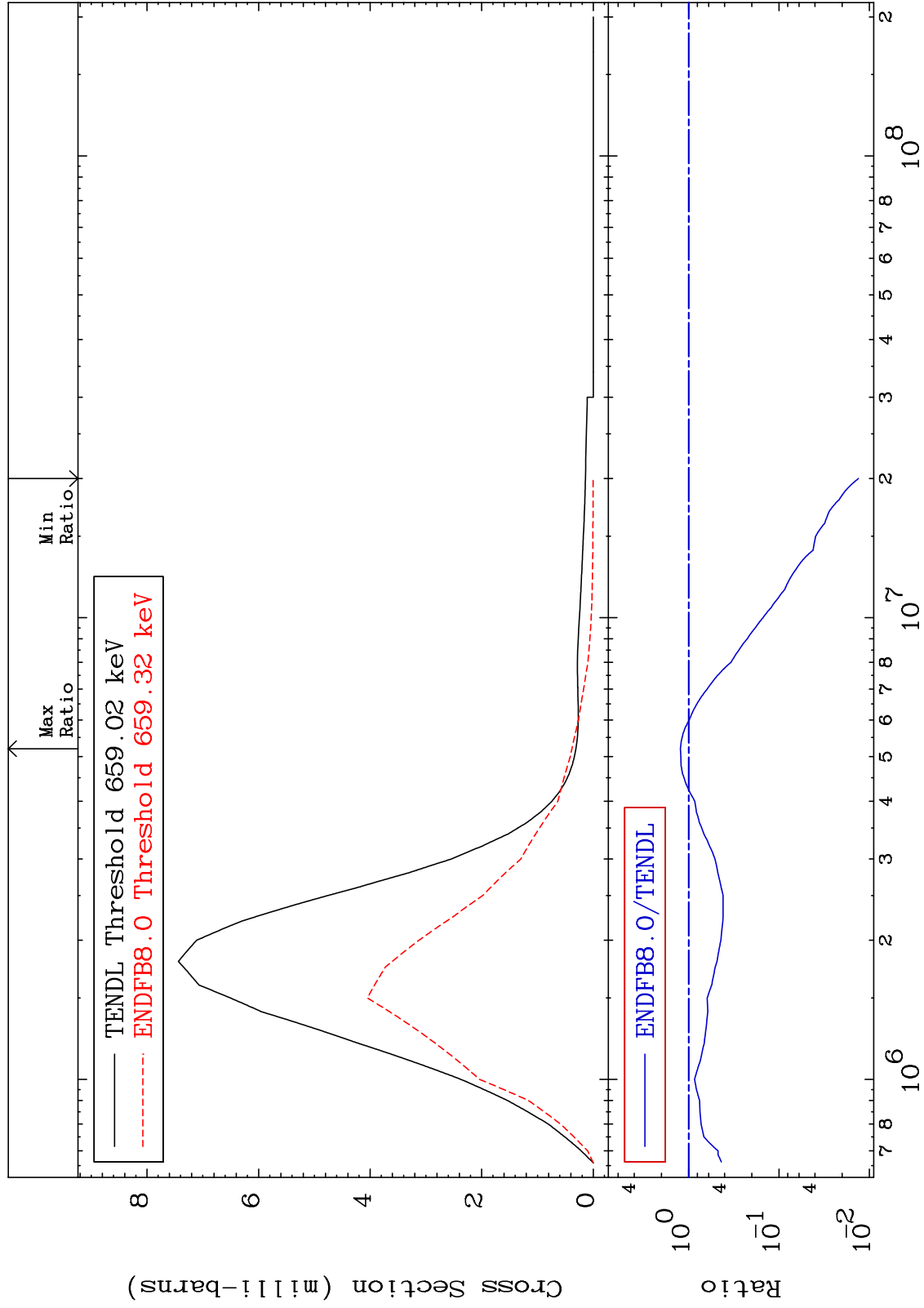
63-Eu-153
-99.93 To -64.40%



MAT 6331

MT= 77 (n,n') Level
Cross Section

63-Eu-153
-98.68 To 22.96 %



34

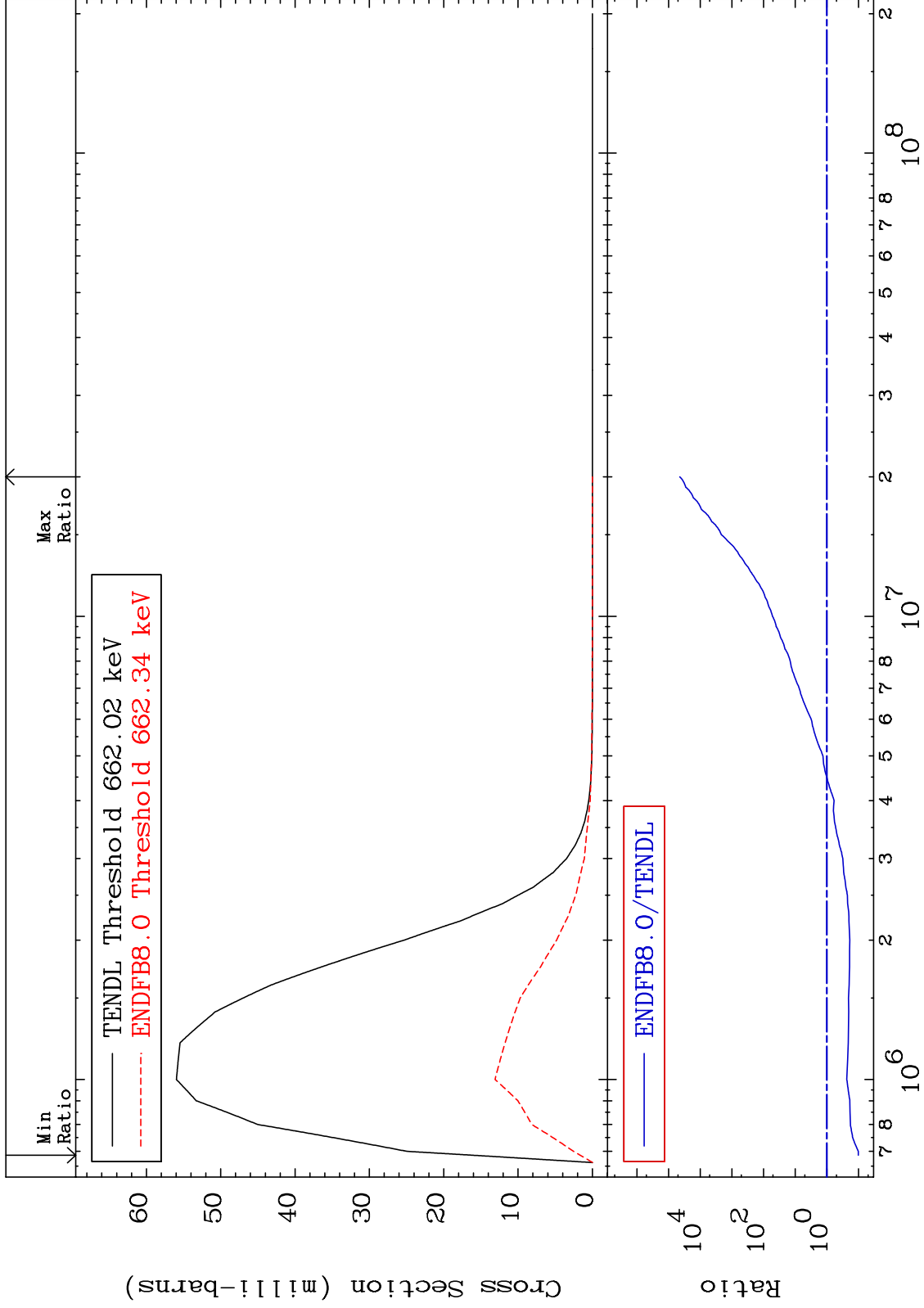
Incident Energy (eV)

63-Eu-153

MAT 6331

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

63-Eu-153
-89.87 To 9999. %



35

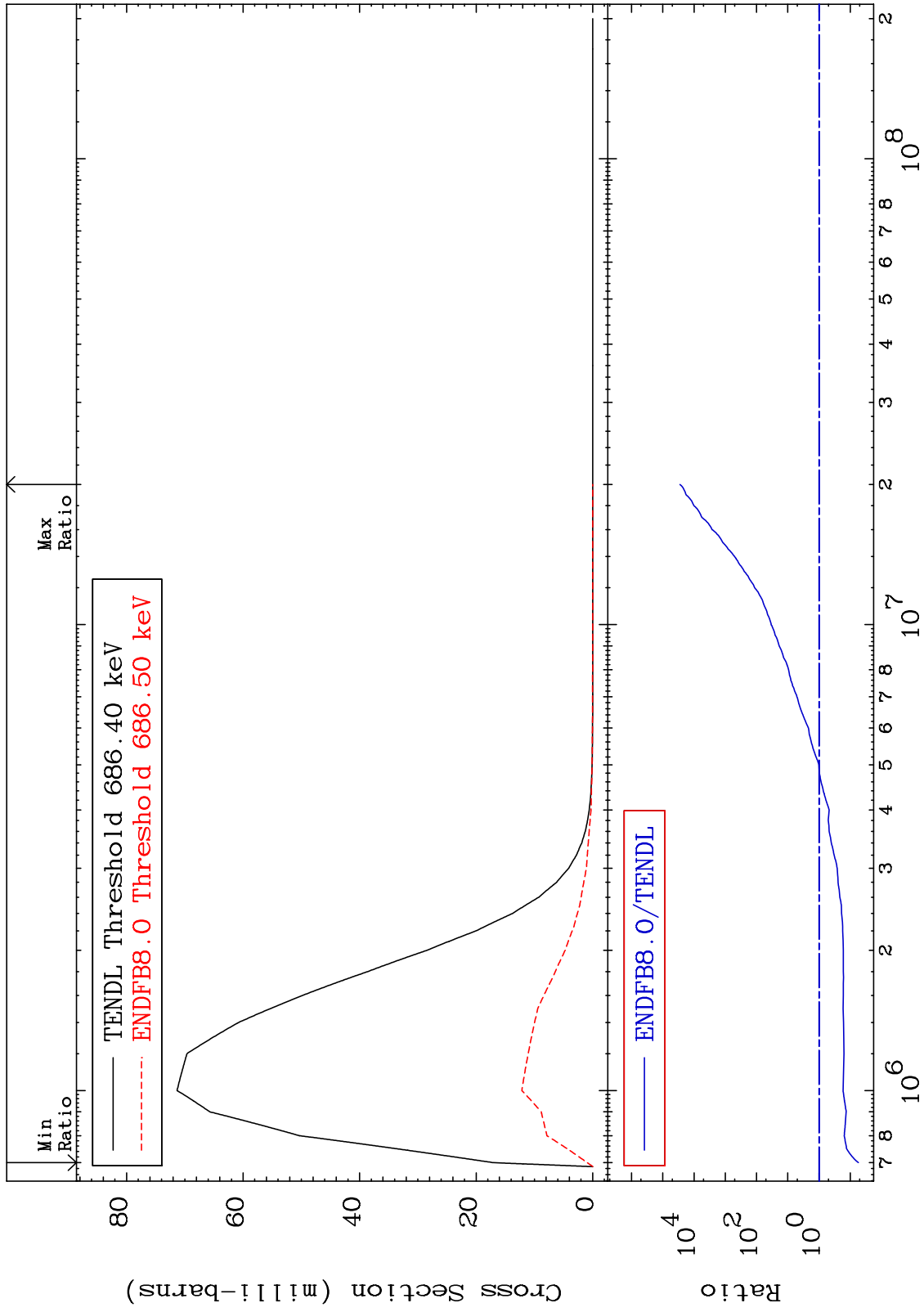
Incident Energy (eV)

63-Eu-153

MAT 6331

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

63-Eu-153
-94.51 To 9999. %



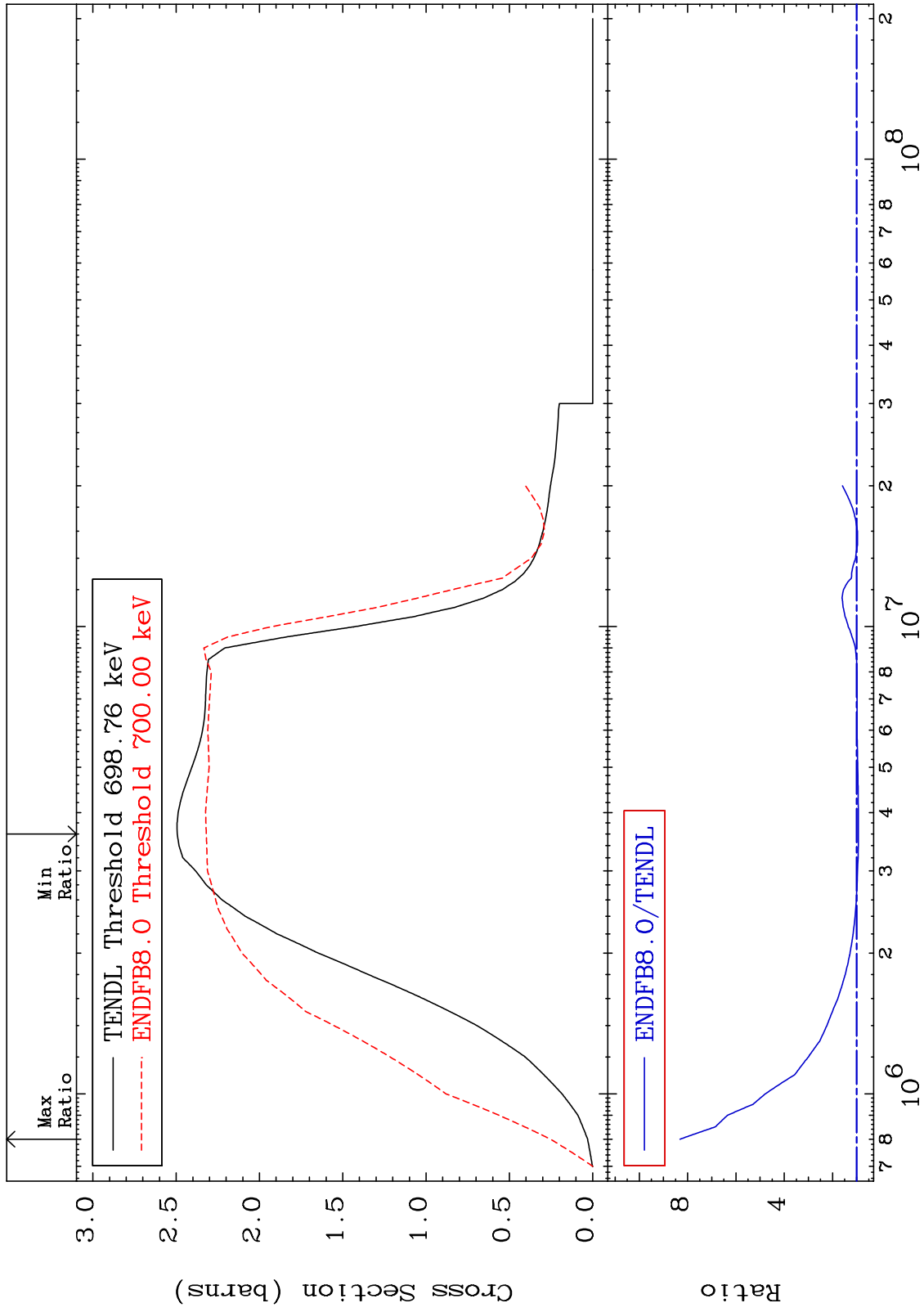
36

63-Eu-153

MAT 6331

(n, n') Continuum
Cross Section

63-Eu-153
-7.014 To 731.5 %



37

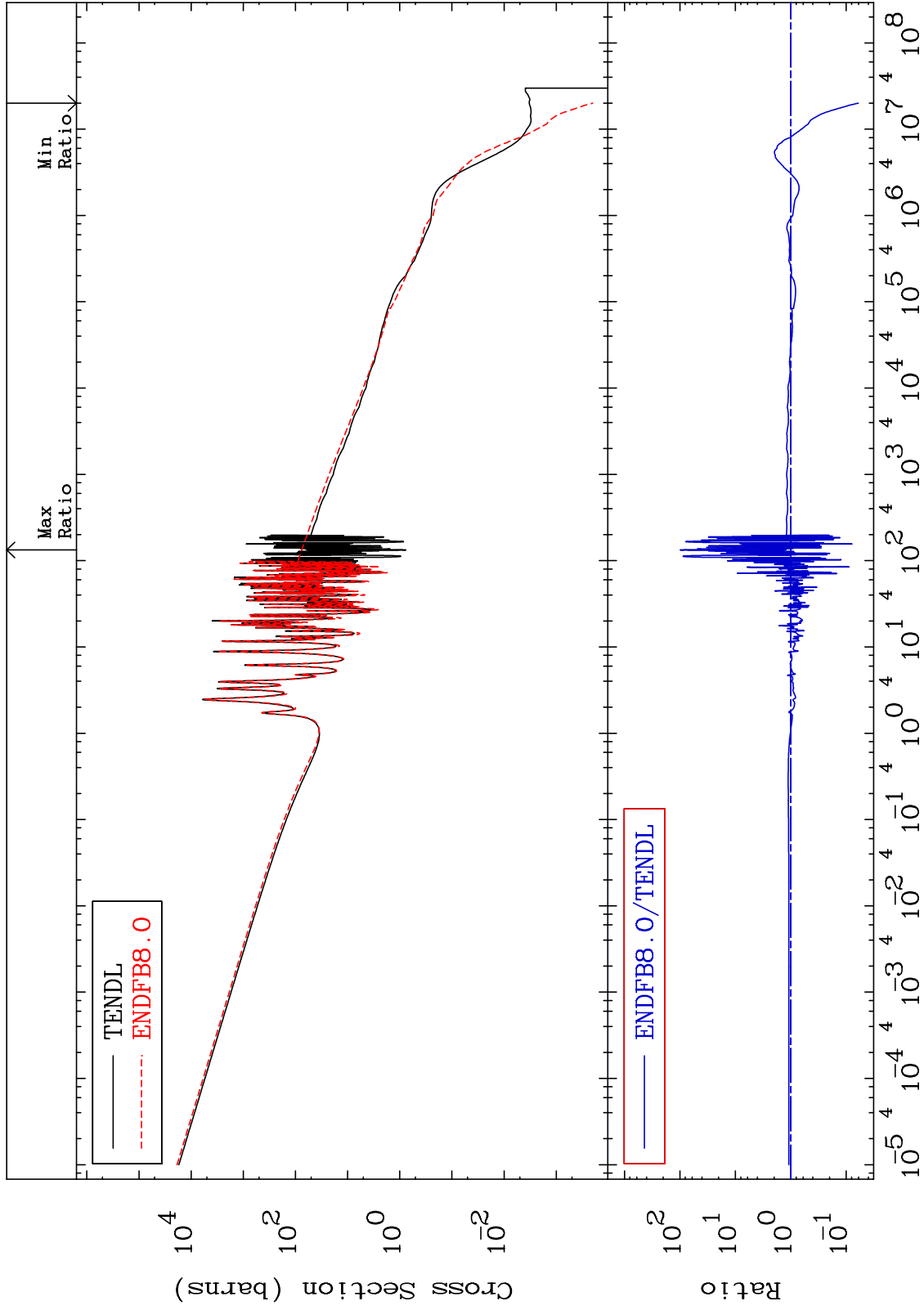
Incident Energy (eV)

63-Eu-153

MAT 6331

63-Eu-153

(n, γ)
Cross Section
-93.97 To 9854. %



38

Incident Energy (eV)

63-Eu-153

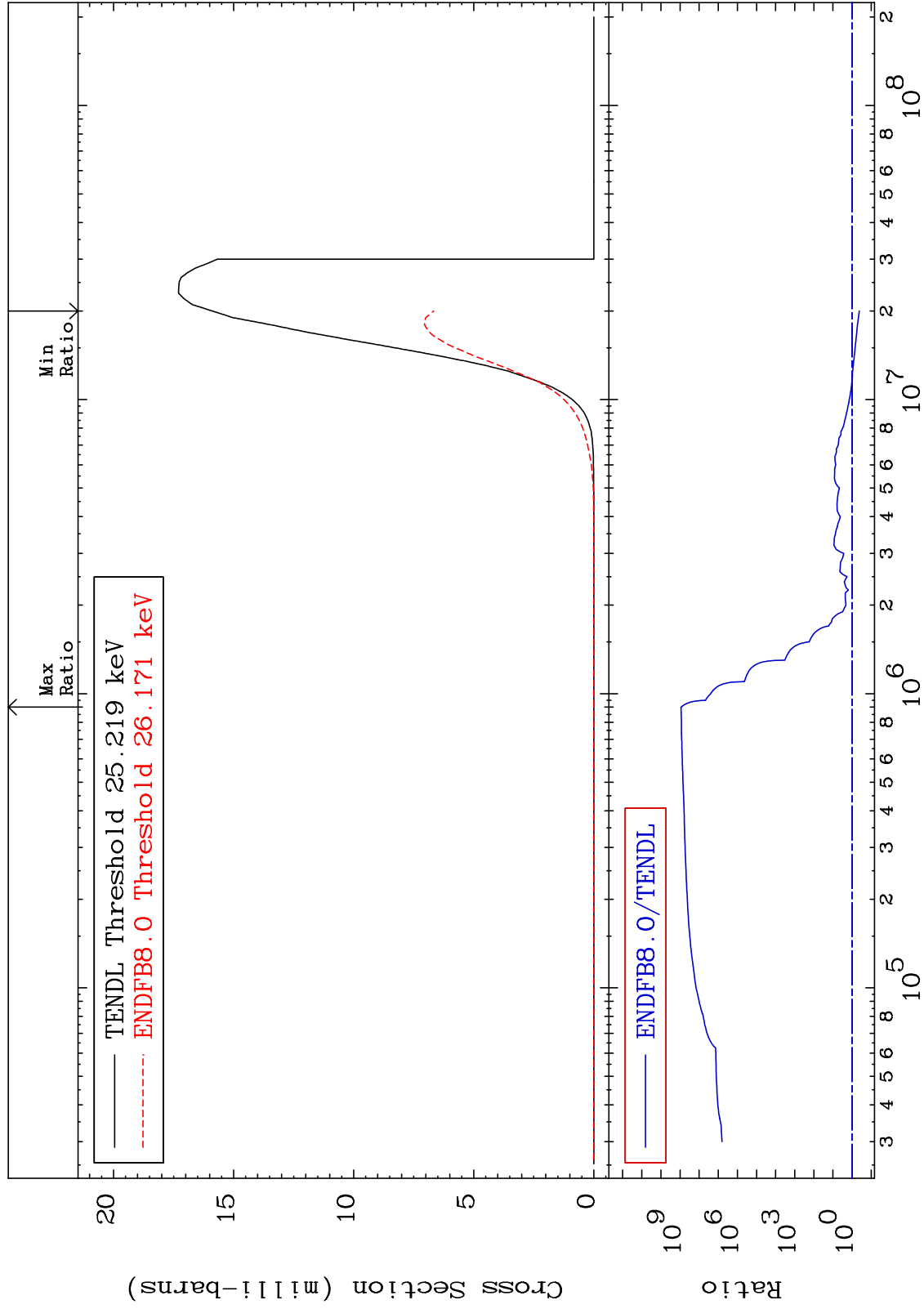
MAT 6331

(n, p)

63-Eu-153

Cross Section

-58.03 To 9999. %



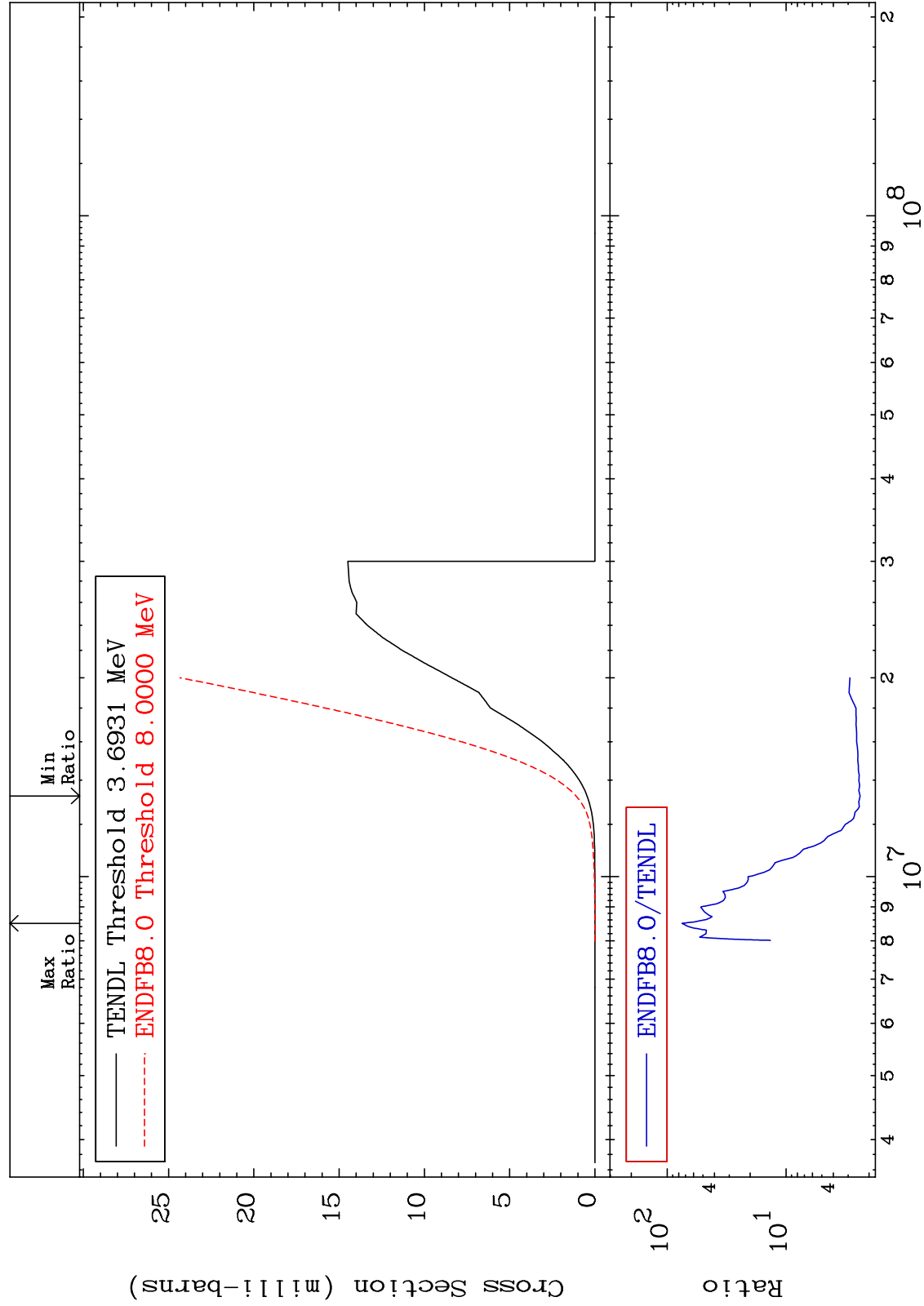
MAT 6331

(n, d)

63-Eu-153

137.7 To 7385. %

Cross Section



40

Incident Energy (eV)

63-Eu-153

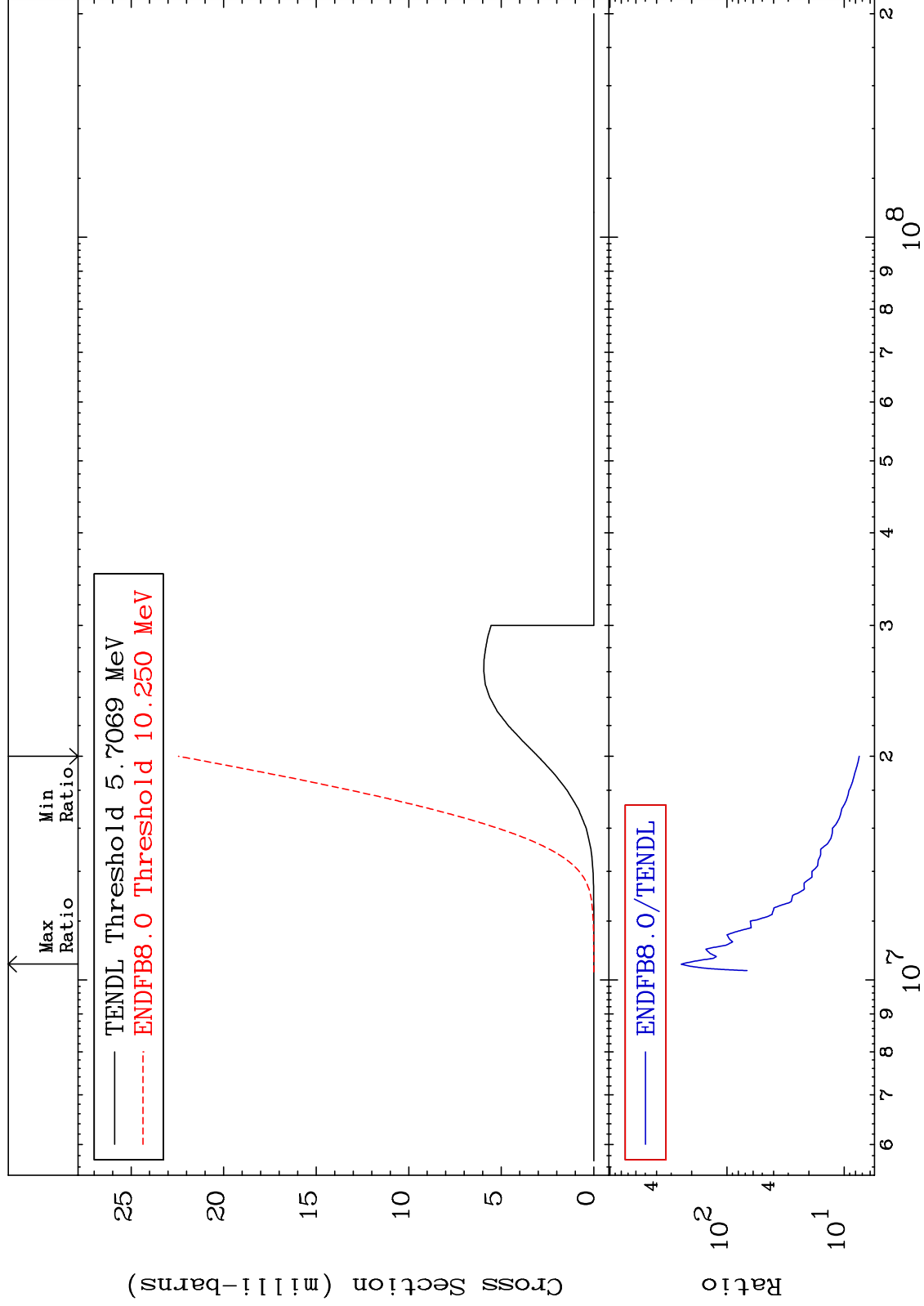
MAT 6331

(n, t)

63-Eu-153

Cross Section

643.3 To 9999. %



41

Incident Energy (eV)

63-Eu-153

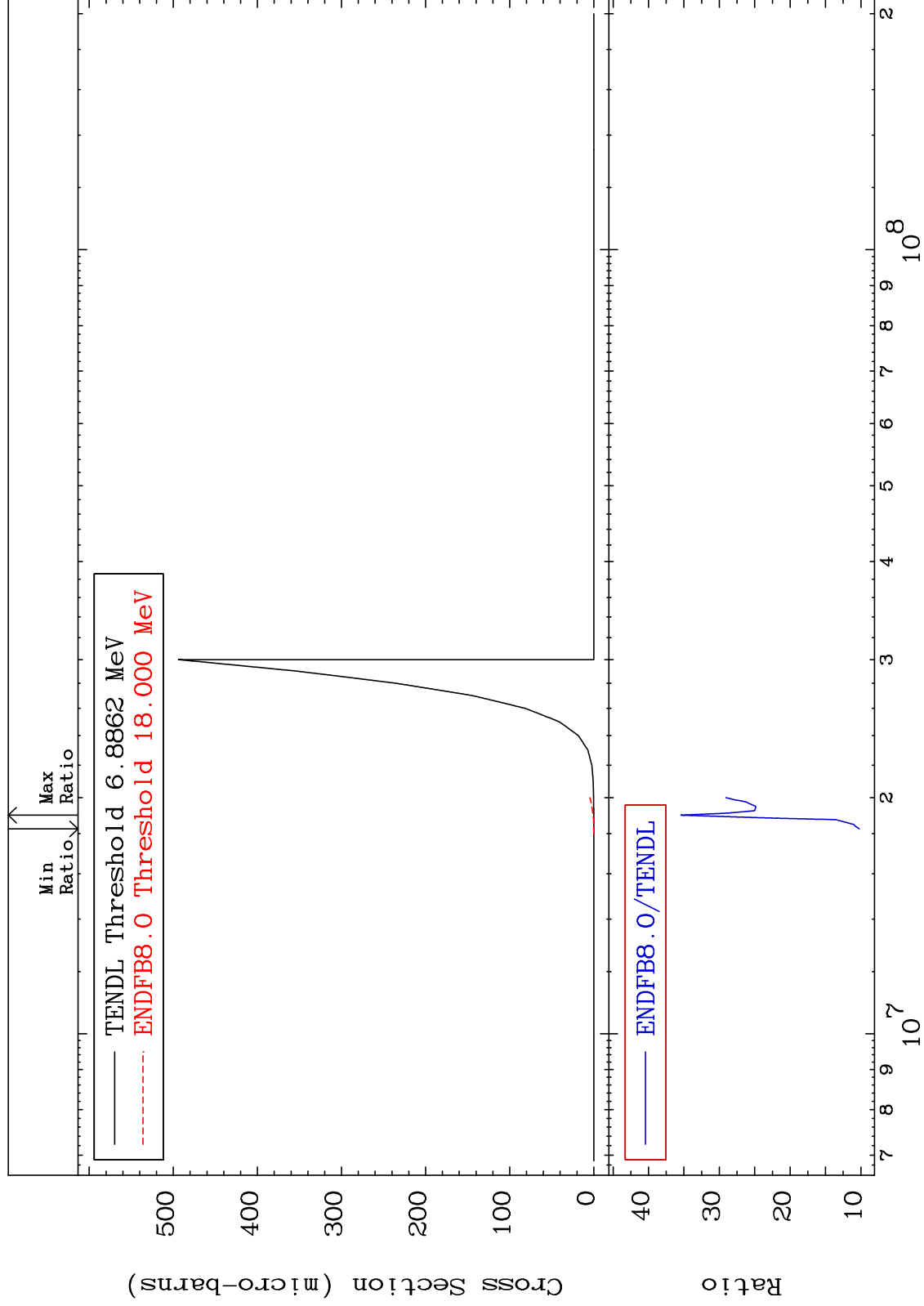
MAT 6331

(n, He-3)

63-Eu-153

Cross Section

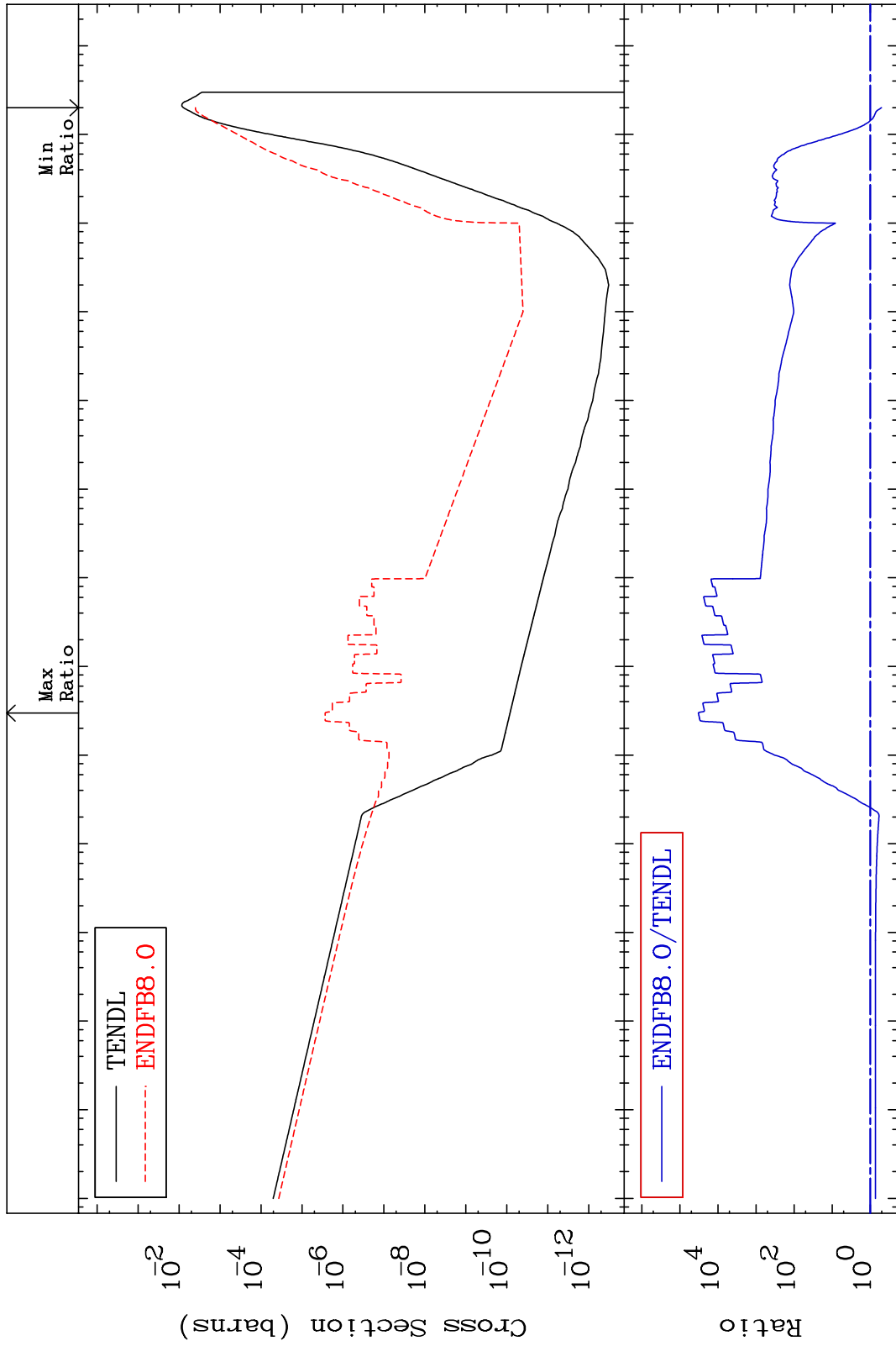
922.8 To 3441. %



MAT 6331

63-Eu-153

(n, α)
Cross Section
-49.46 To 9999. %



Incident Energy (eV)

MAT 6331

(n,p) α

63-Eu-153

Cross Section

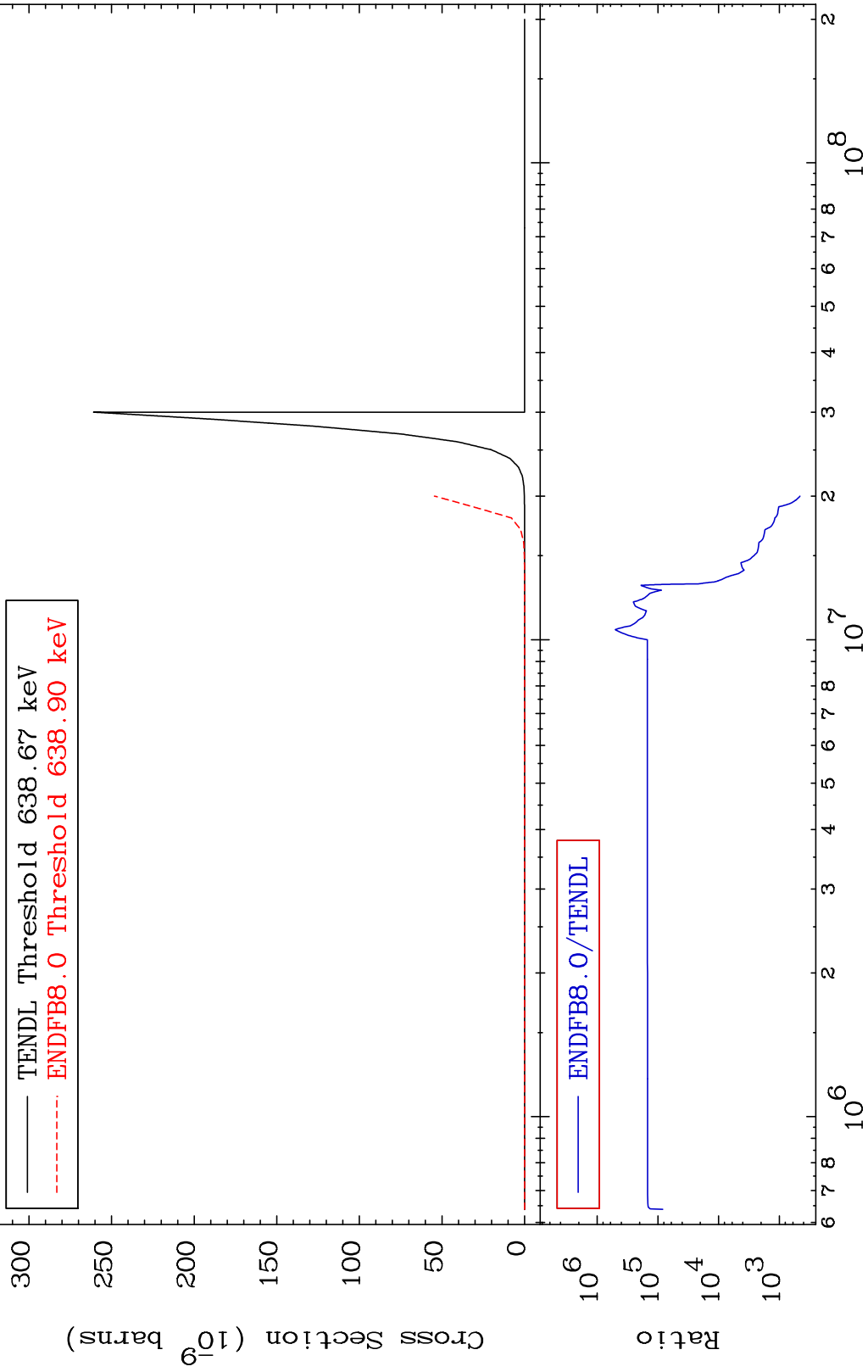
Max Ratio

Min Ratio

9999. To 9999. %

TENDL Threshold 638.67 keV
ENDFB8.0 Threshold 638.90 keV

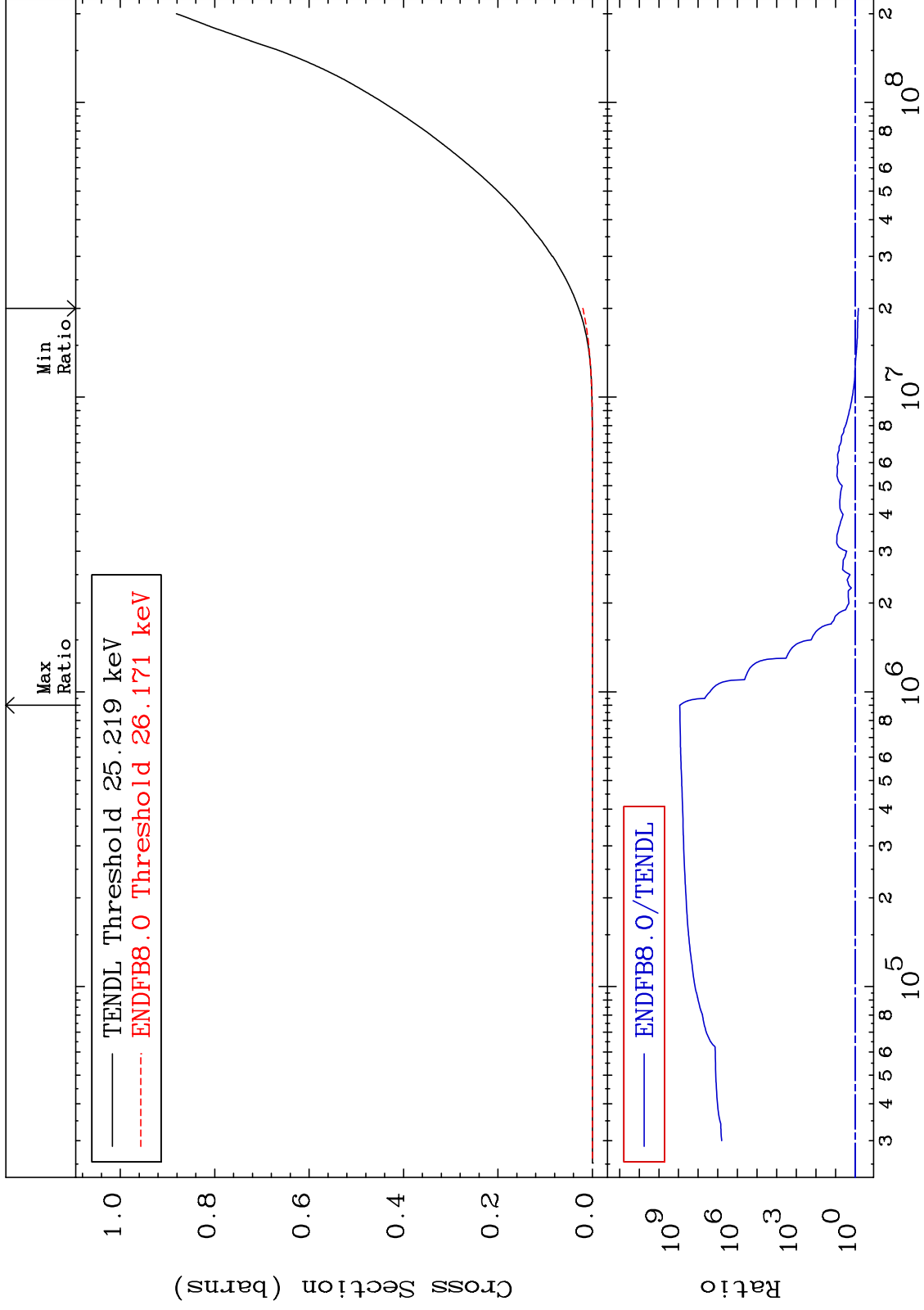
ENDFB8.0/TENDL



MAT 6331

Hydrogen Production
Cross Section

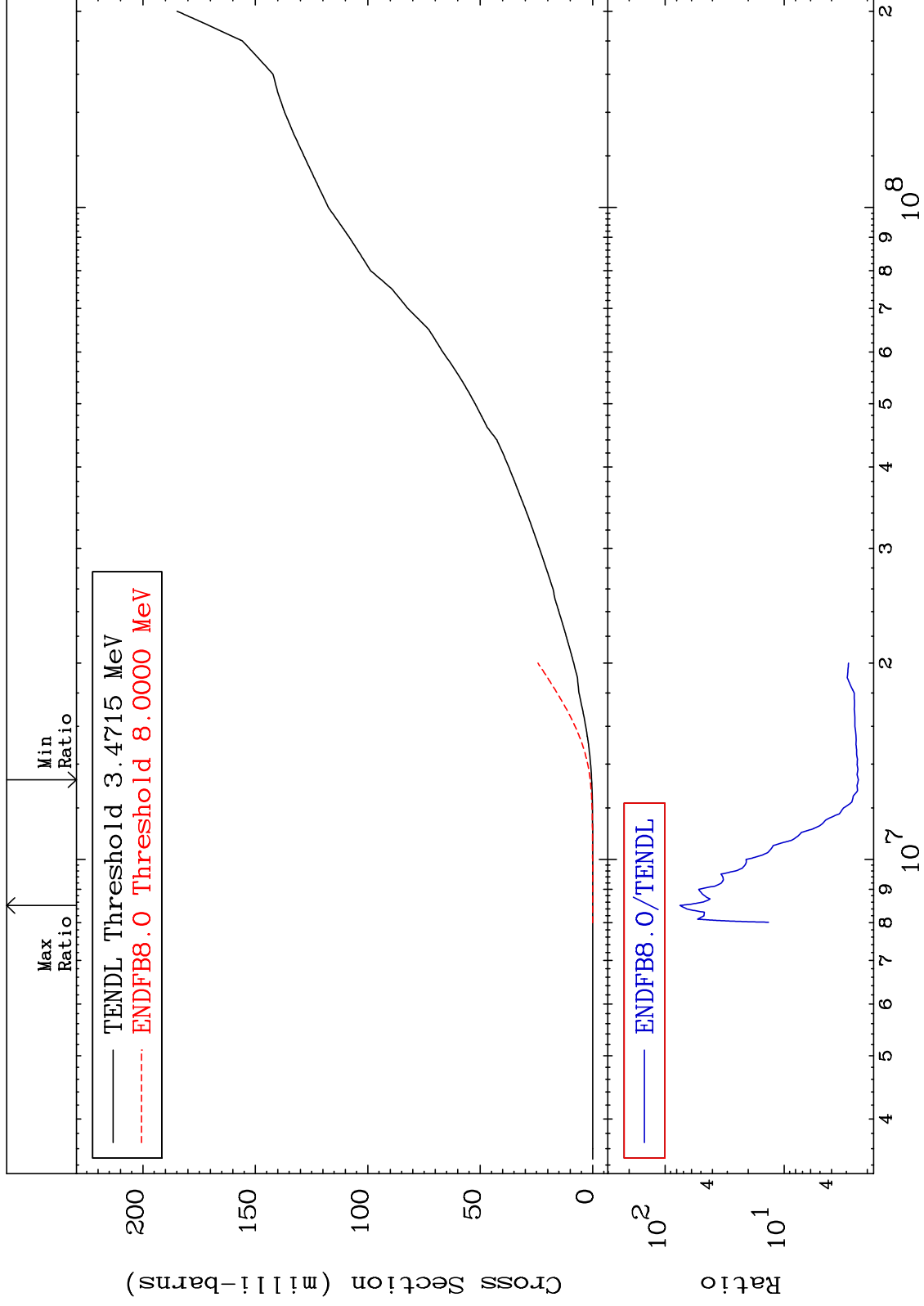
63-Eu-153
-30.93 To 9999. %



MAT 6331

Deuterium Production
Cross Section

63-Eu-153
137.7 To 7385. %



46

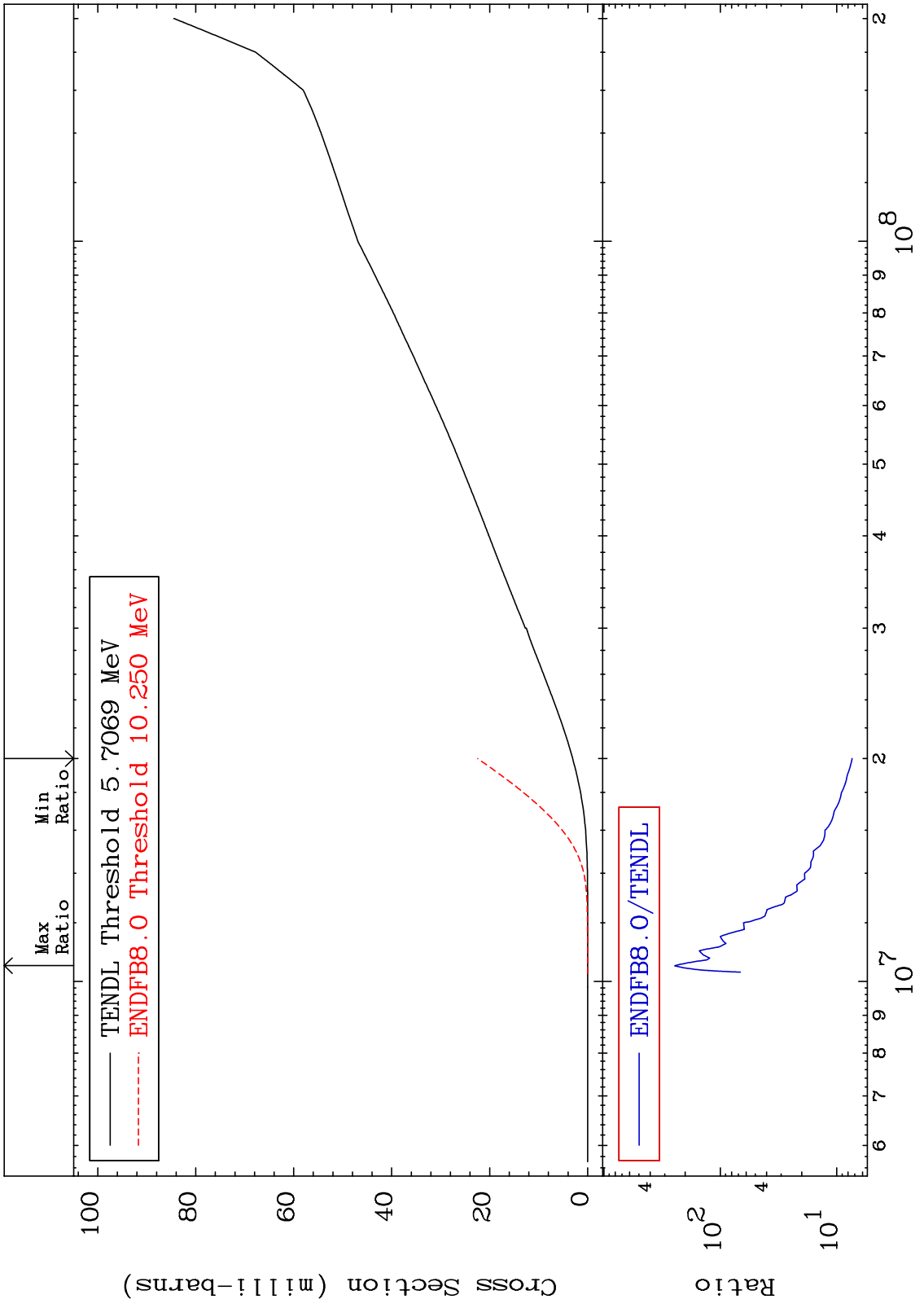
Incident Energy (eV)

63-Eu-153

MAT 6331

Tritium Production
Cross Section

63-Eu-153
636.5 To 9999. %



47

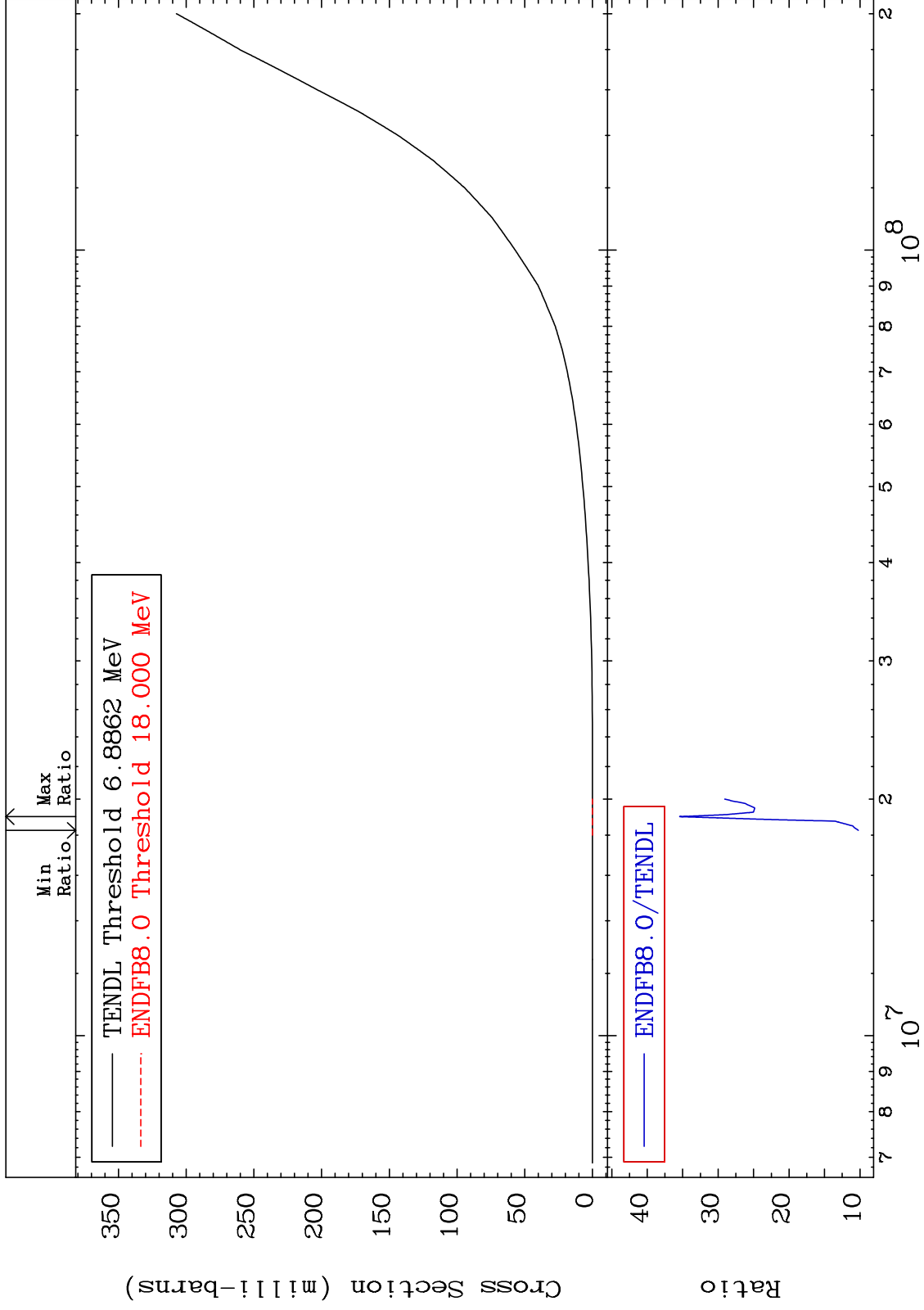
Incident Energy (eV)

63-Eu-153

MAT 6331

He-3 Production
Cross Section

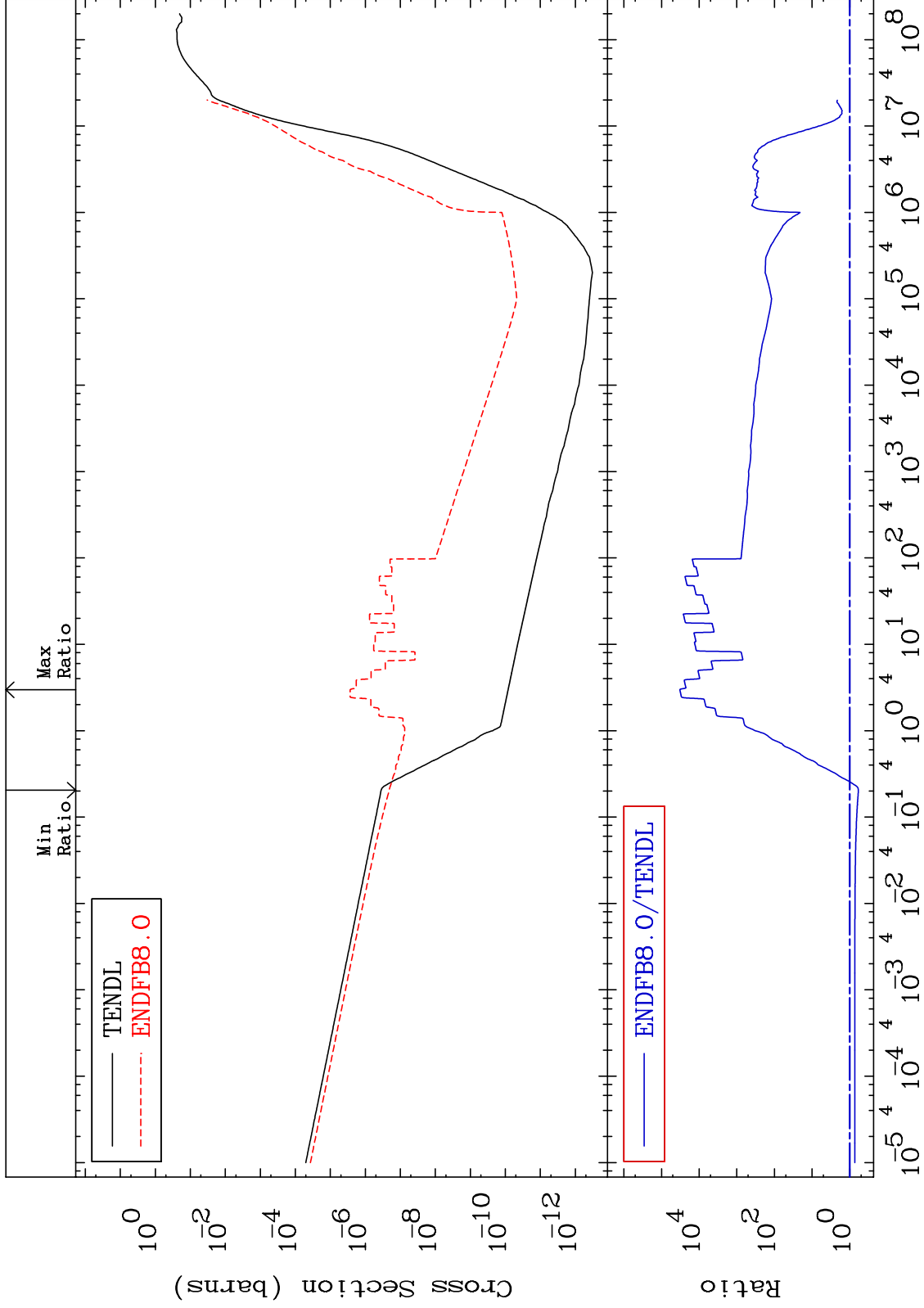
63-Eu-153
922.8 To 3441. %



MAT 6331

He-4 Production
Cross Section

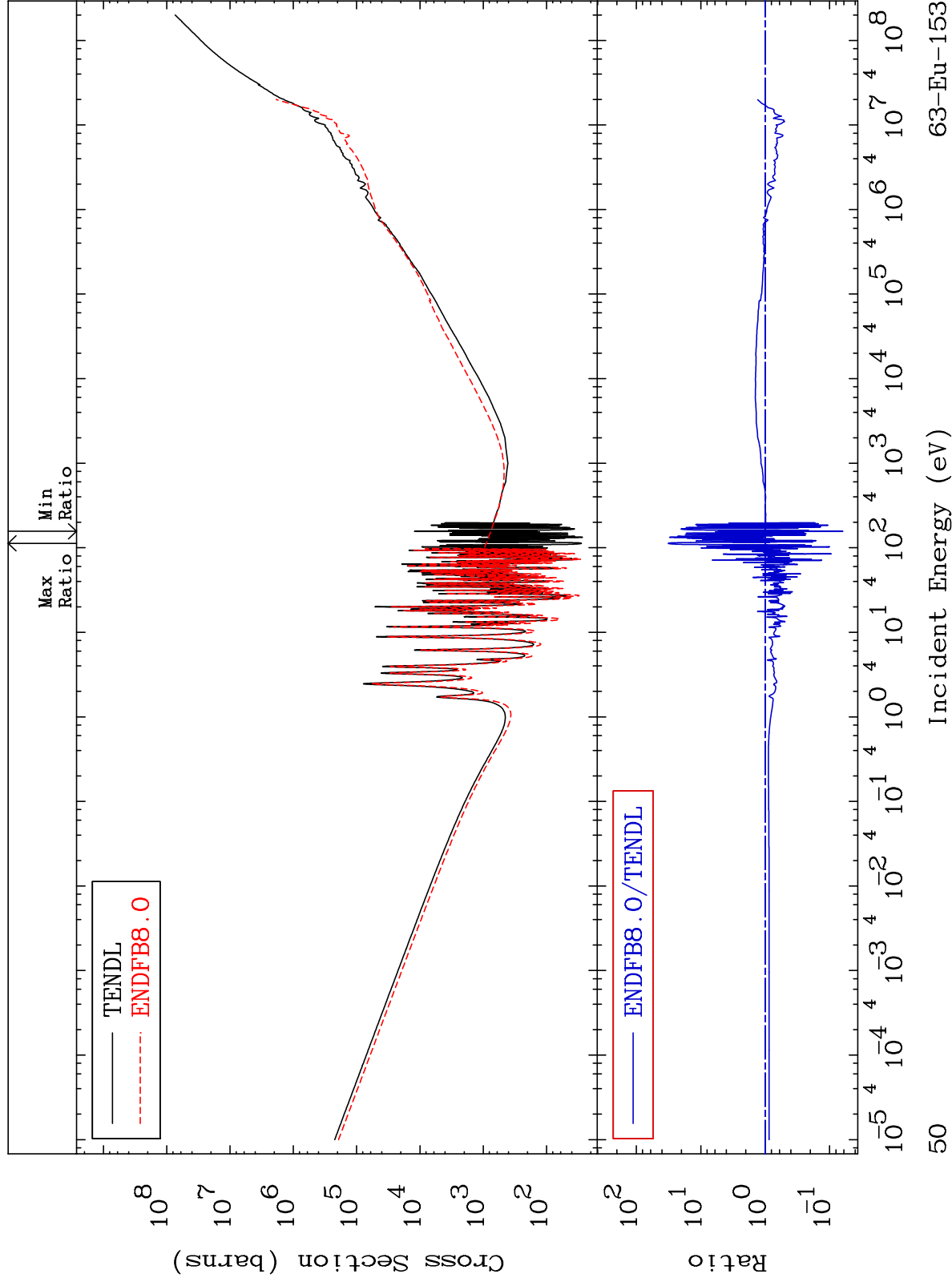
63-Eu-153
-40.93 To 9999. %



MAT 6331

Kerma total (eV-barns)
Cross Section

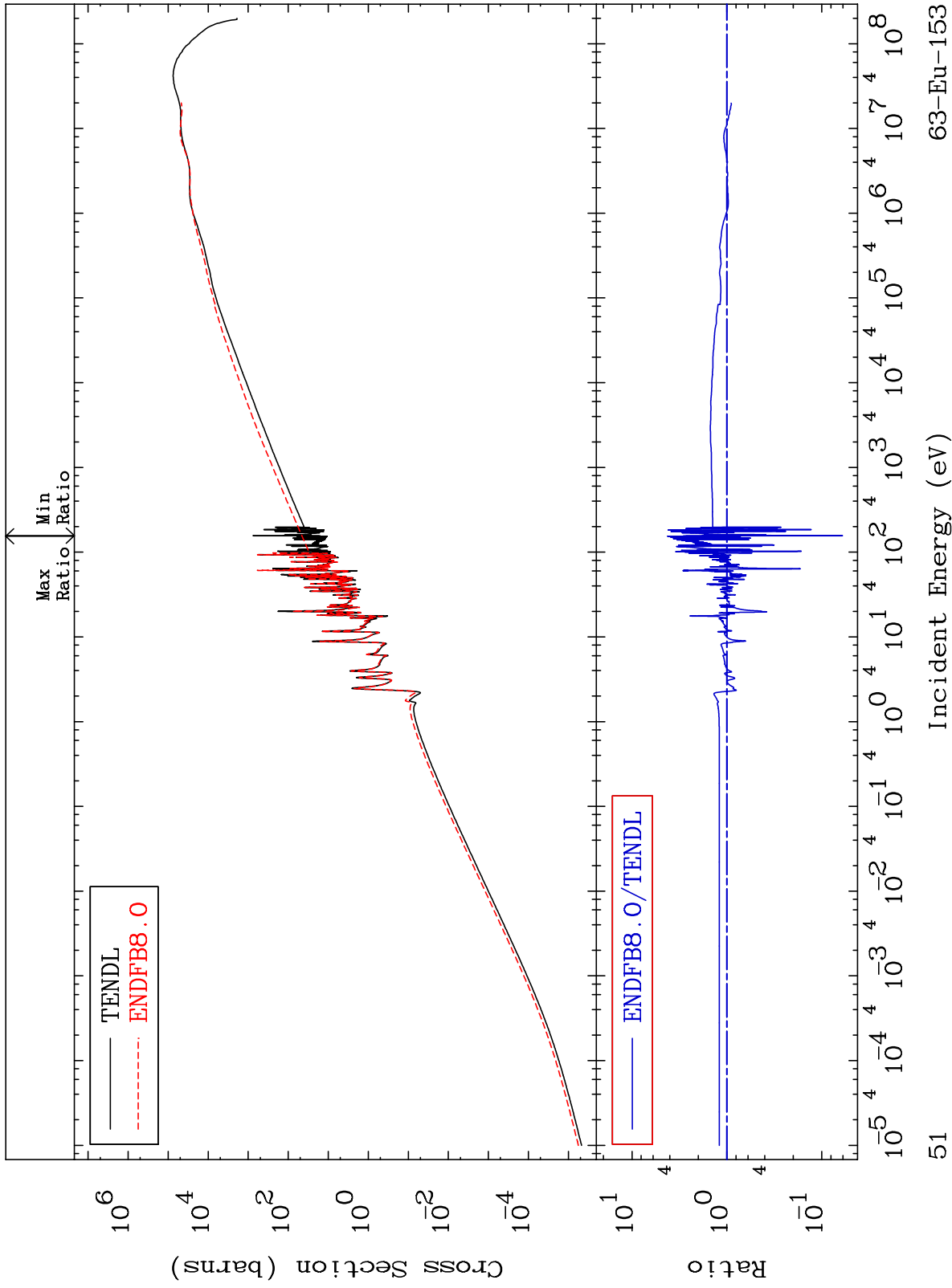
63-Eu-153
-93.77 To 3124. %



MAT 6331

Kerma elastic
Cross Section

63-Eu-153
-93.95 To 324.6 %



51

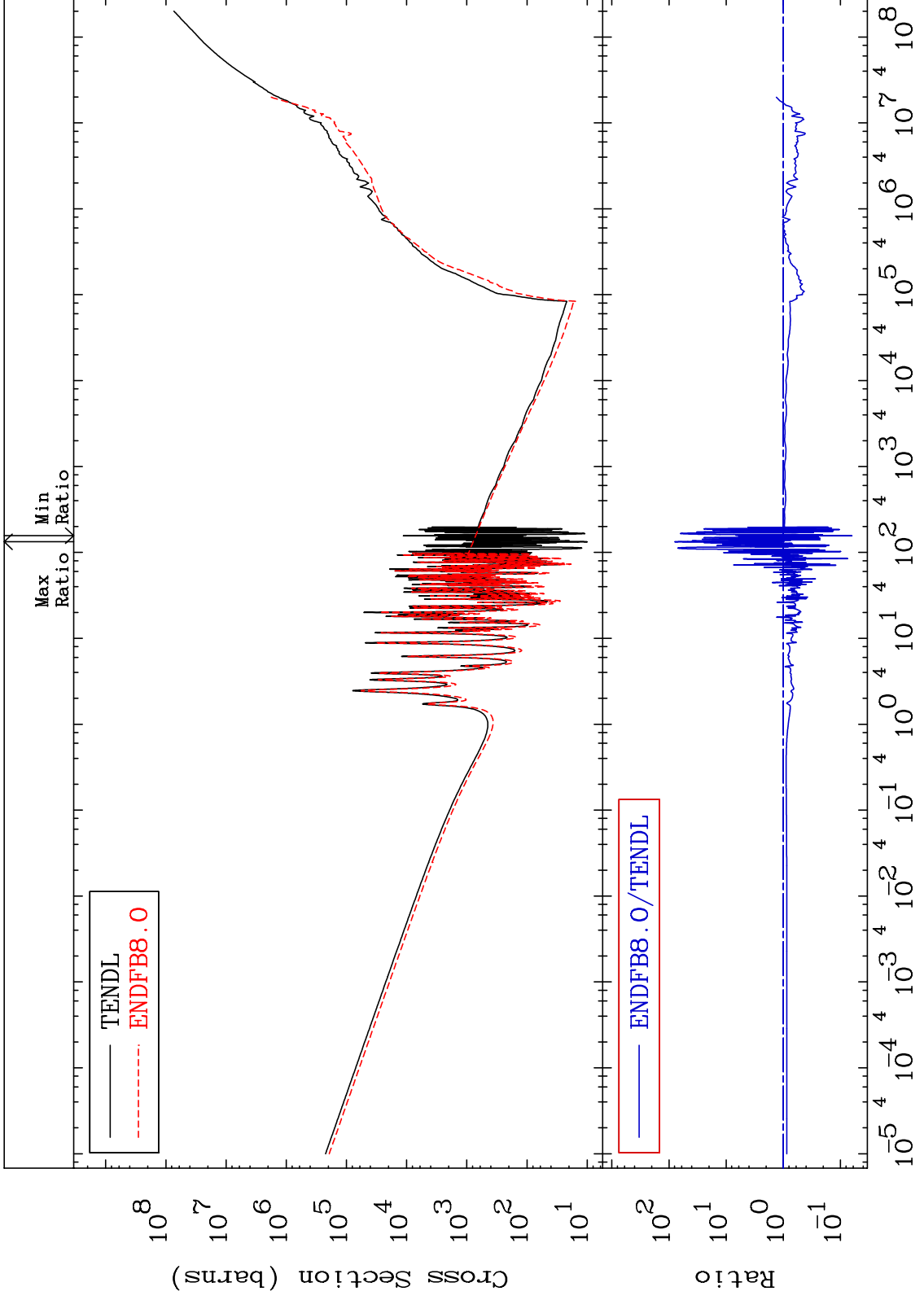
Incident Energy (eV)

63-Eu-153

MAT 6331

Kerma non-elastic (all but mt2)
Cross Section

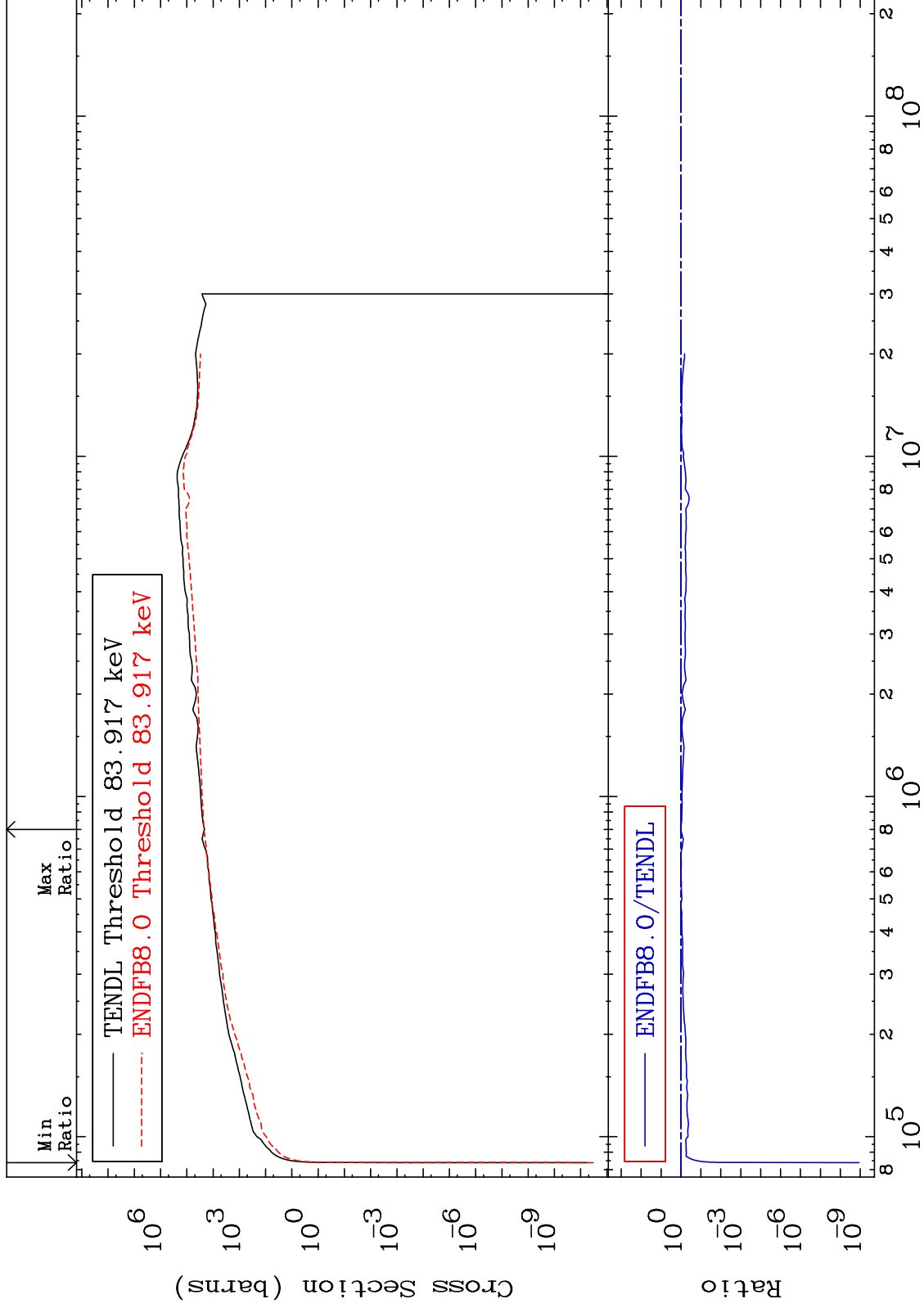
63-Eu-153
-93.76 To 7892. %



MAT 6331

Kerma inelastic (mt51-91)
Cross Section

63-Eu-153
-100.0 To 3.875 %



53

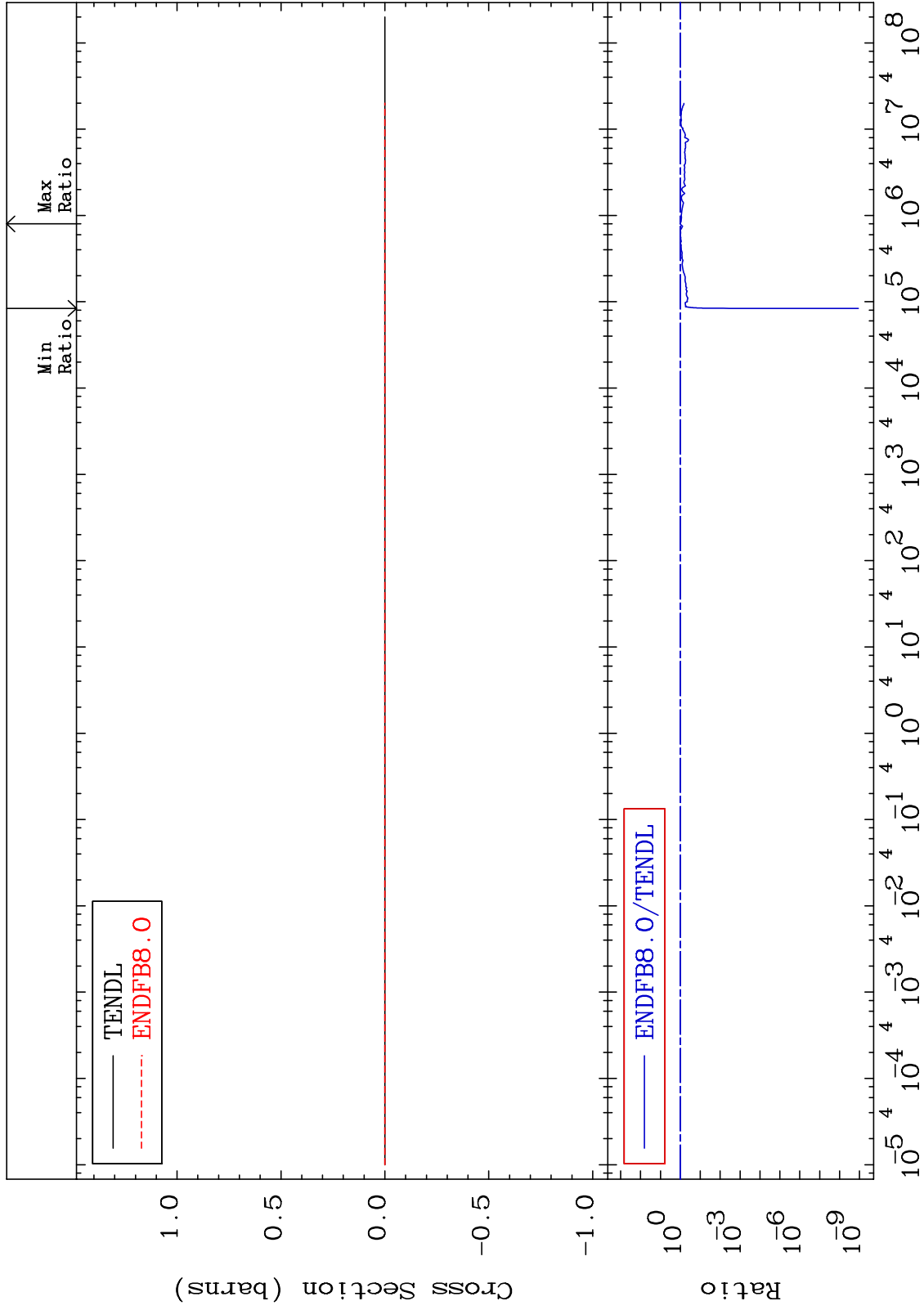
Incident Energy (eV)

63-Eu-153

MAT 6331

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

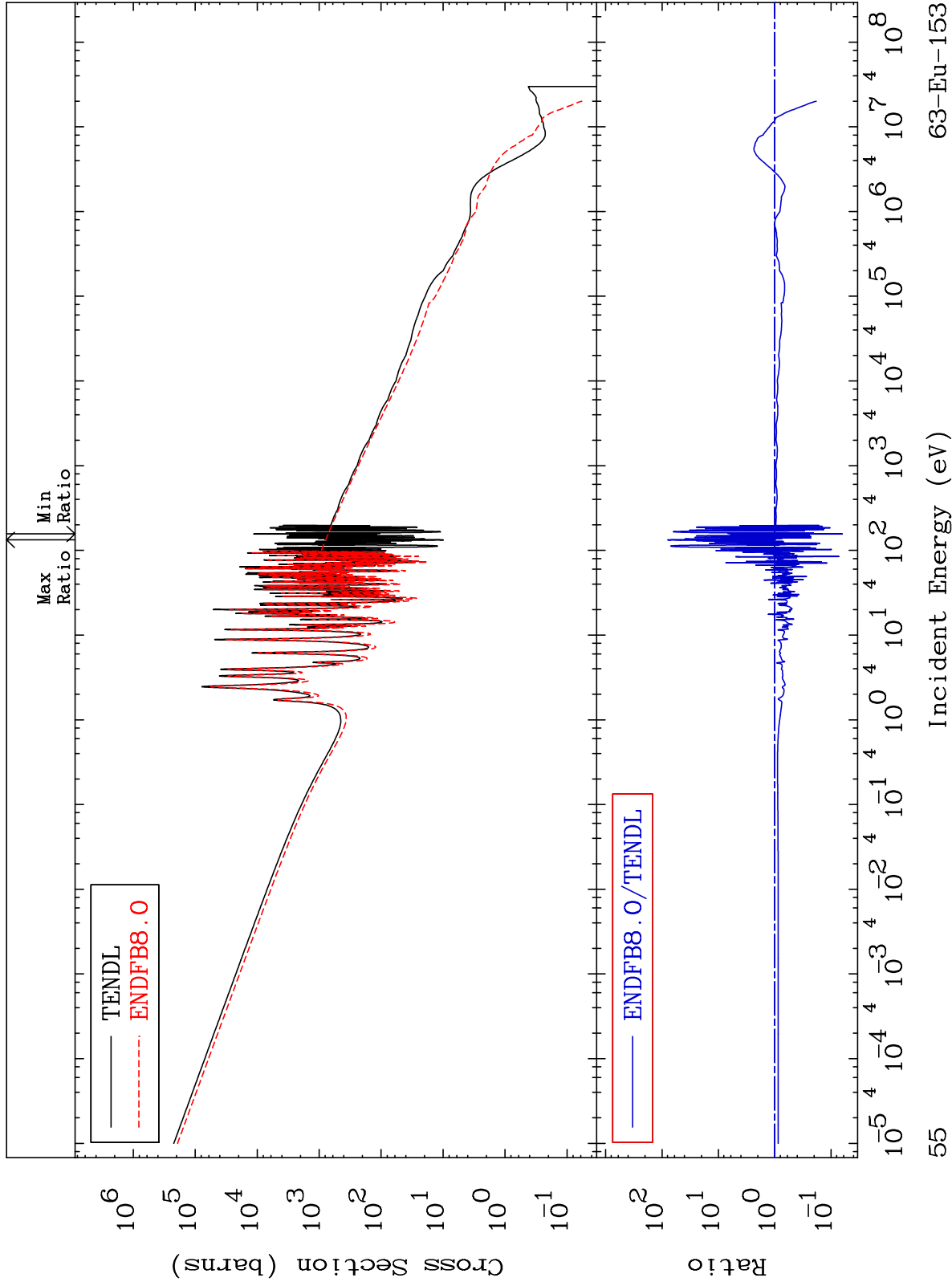
63-Eu-153
-100.0 To 3.875 %



MAT 6331

Kerma capture (mt102)
Cross Section

63-Eu-153
-93.76 To 7891. %

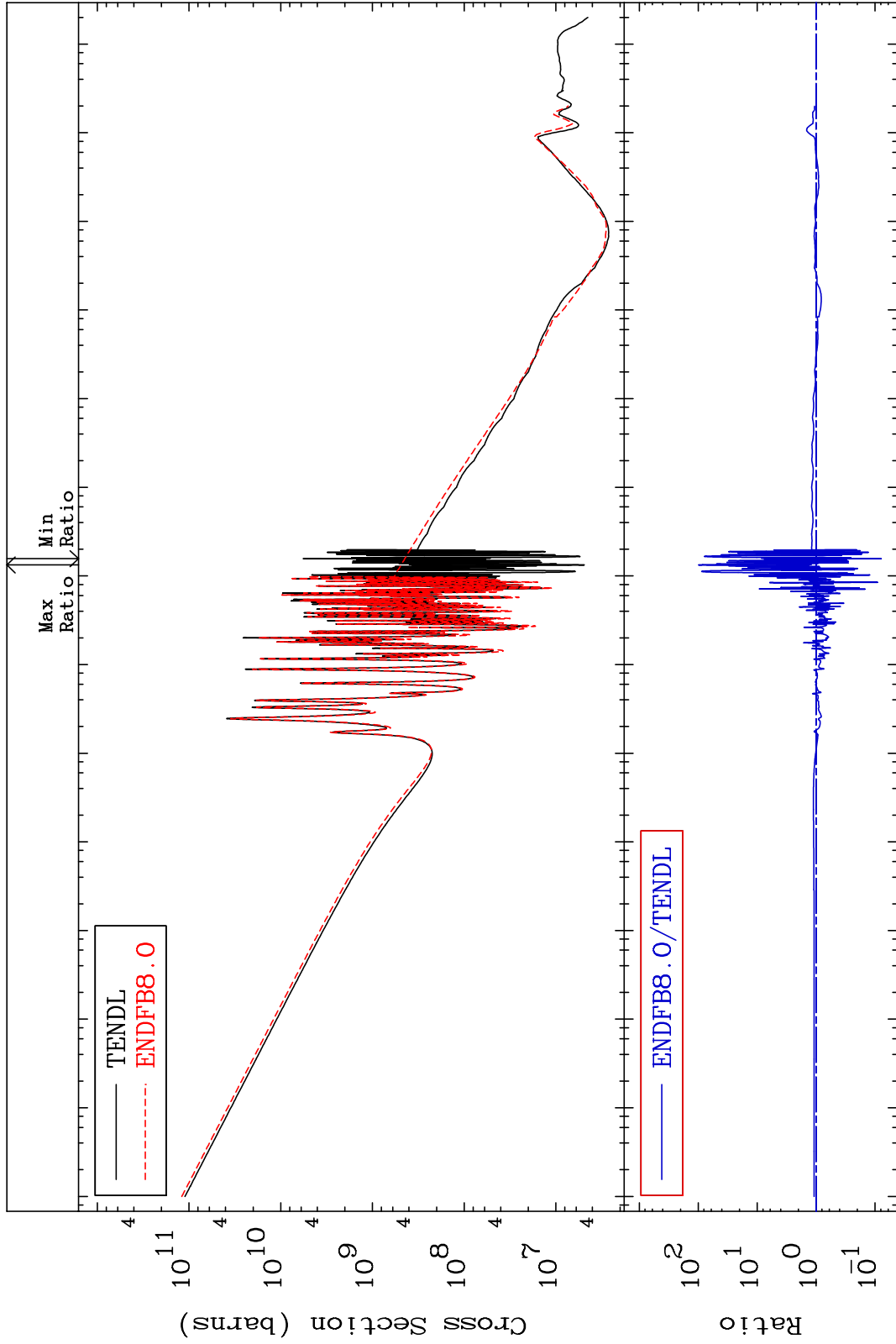


MAT 6331

Total photon (eV-barns)
Cross Section

63-Eu-153

-92.22 To 9854. %



56

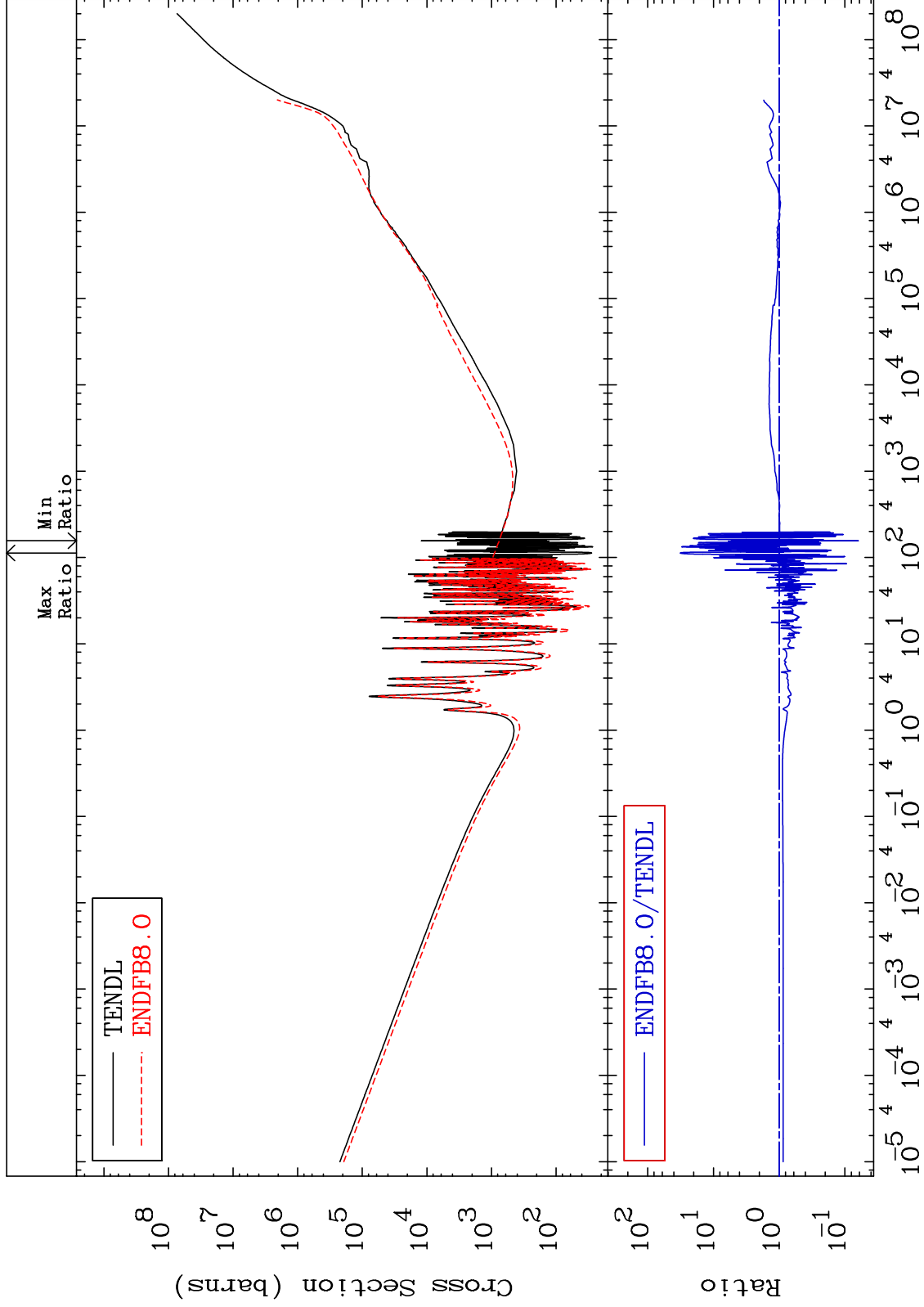
Incident Energy (eV)

63-Eu-153

MAT 6331

Total kinematic kerma (high limit)
Cross Section

63-Eu-153
-93.77 To 3124. %



57

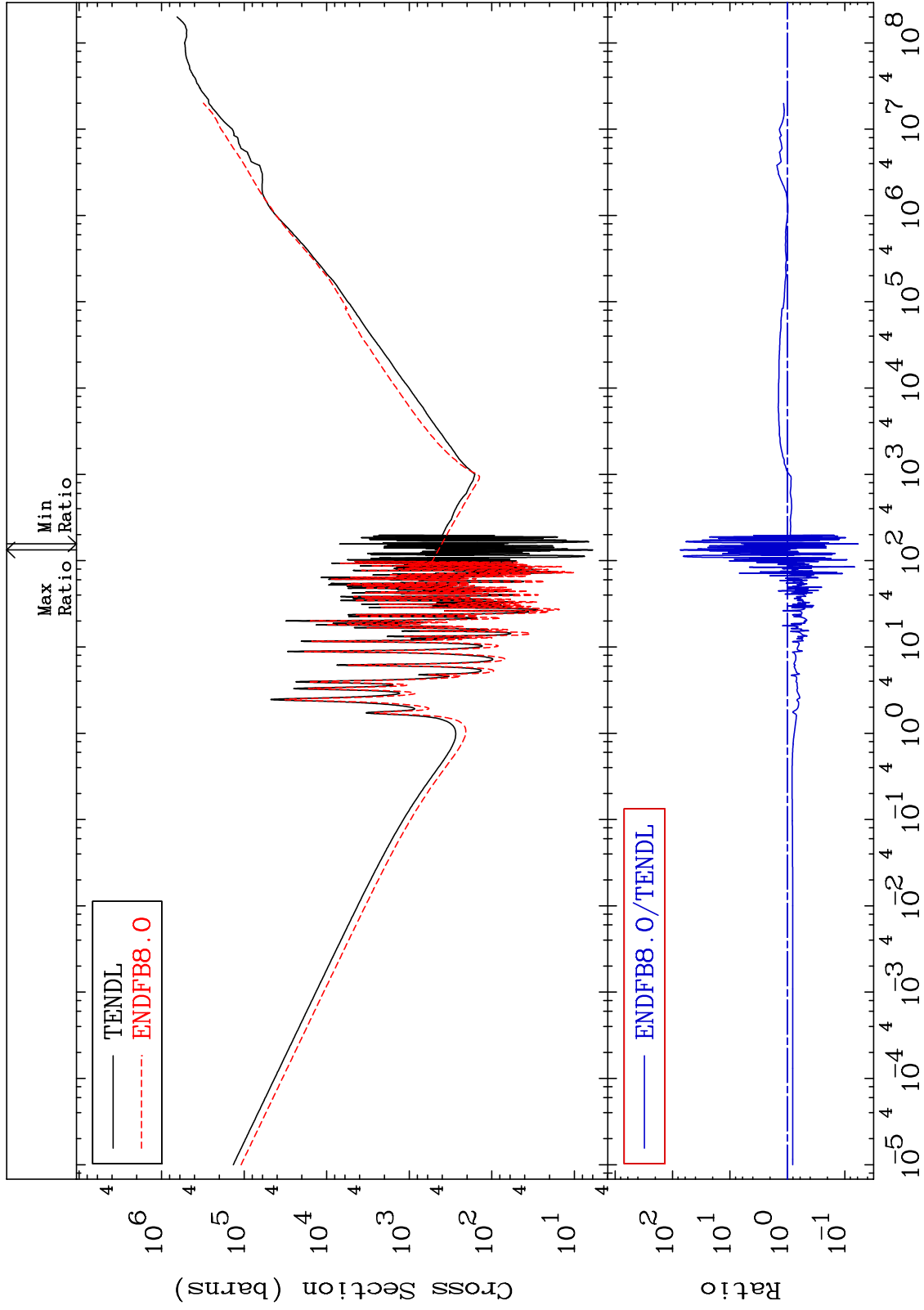
Incident Energy (eV)

63-Eu-153

MAT 6331

Dpa total (eV-barns)
Cross Section

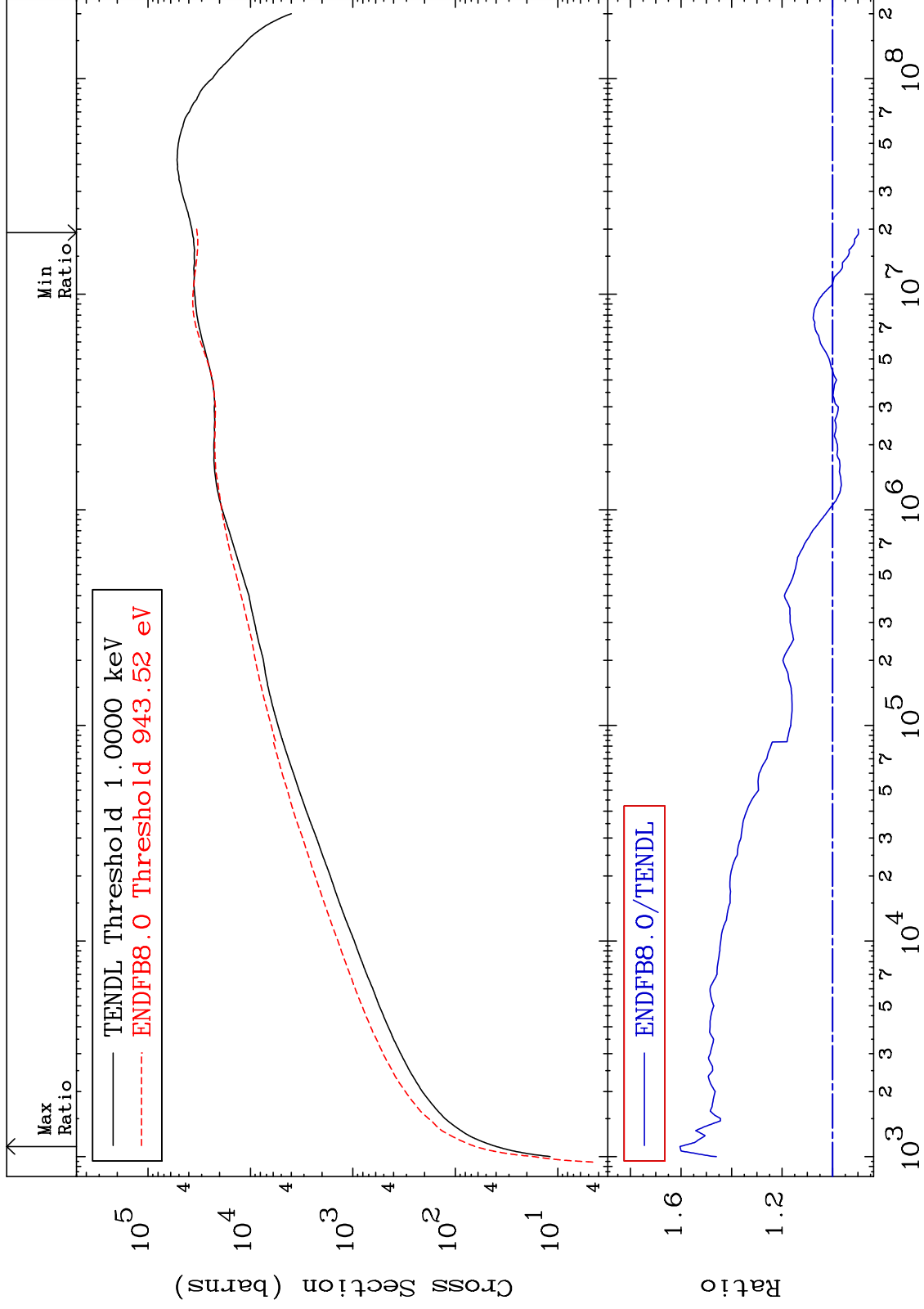
63-Eu-153
-94.22 To 7294. %



MAT 6331

Dpa elastic (mt2)
Cross Section

63-Eu-153
-10.19 To 60.41 %



59

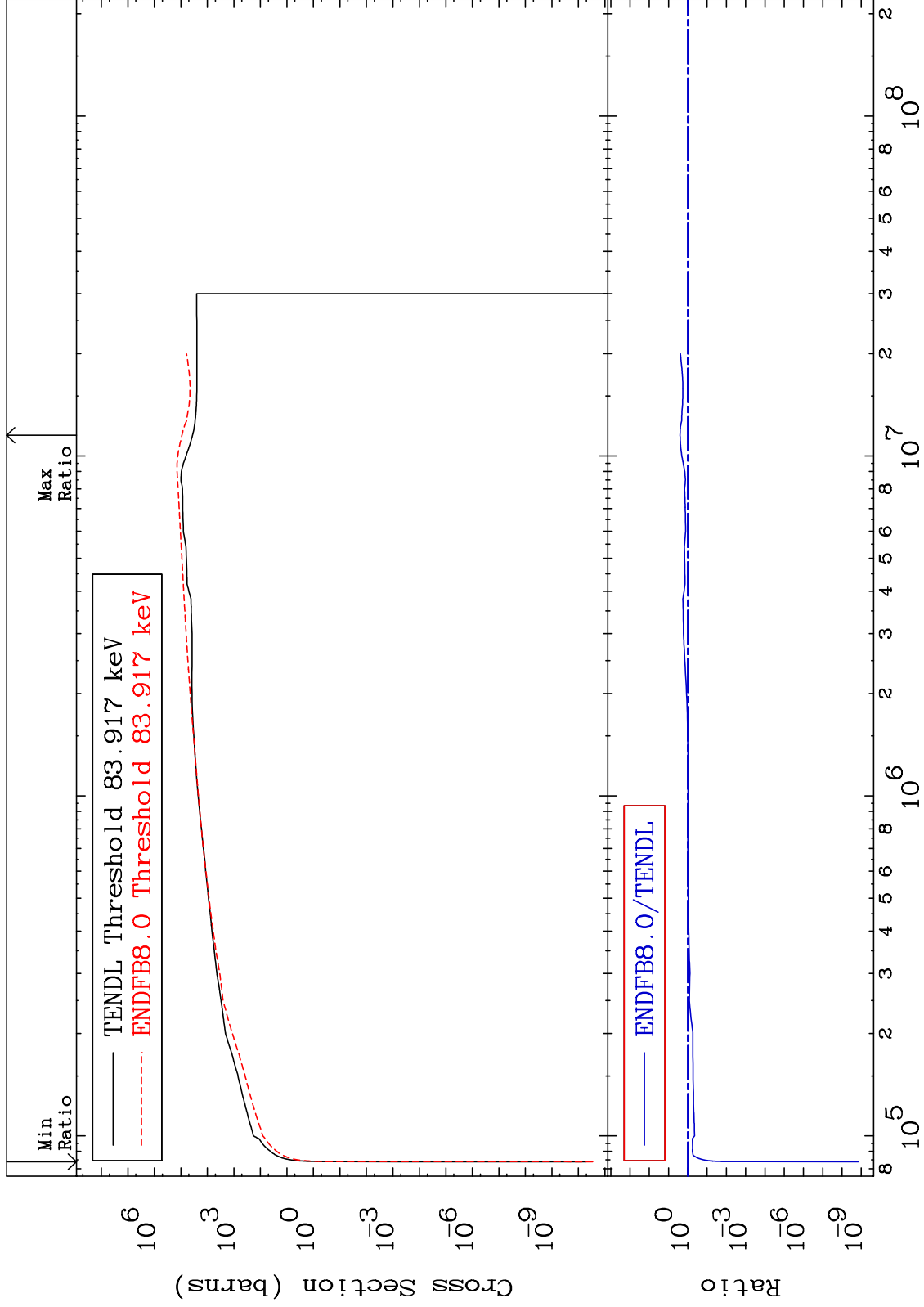
Incident Energy (eV)

63-Eu-153

MAT 6331

Dpa inelastic (mt51-91)
Cross Section

63-Eu-153
-100.0 To 154.3 %



60

Incident Energy (eV)

63-Eu-153

MAT 6331

Dpa disappearance (mt102 -120)
Cross Section

63-Eu-153
-94.22 To 7294. %

