

Program Complot
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

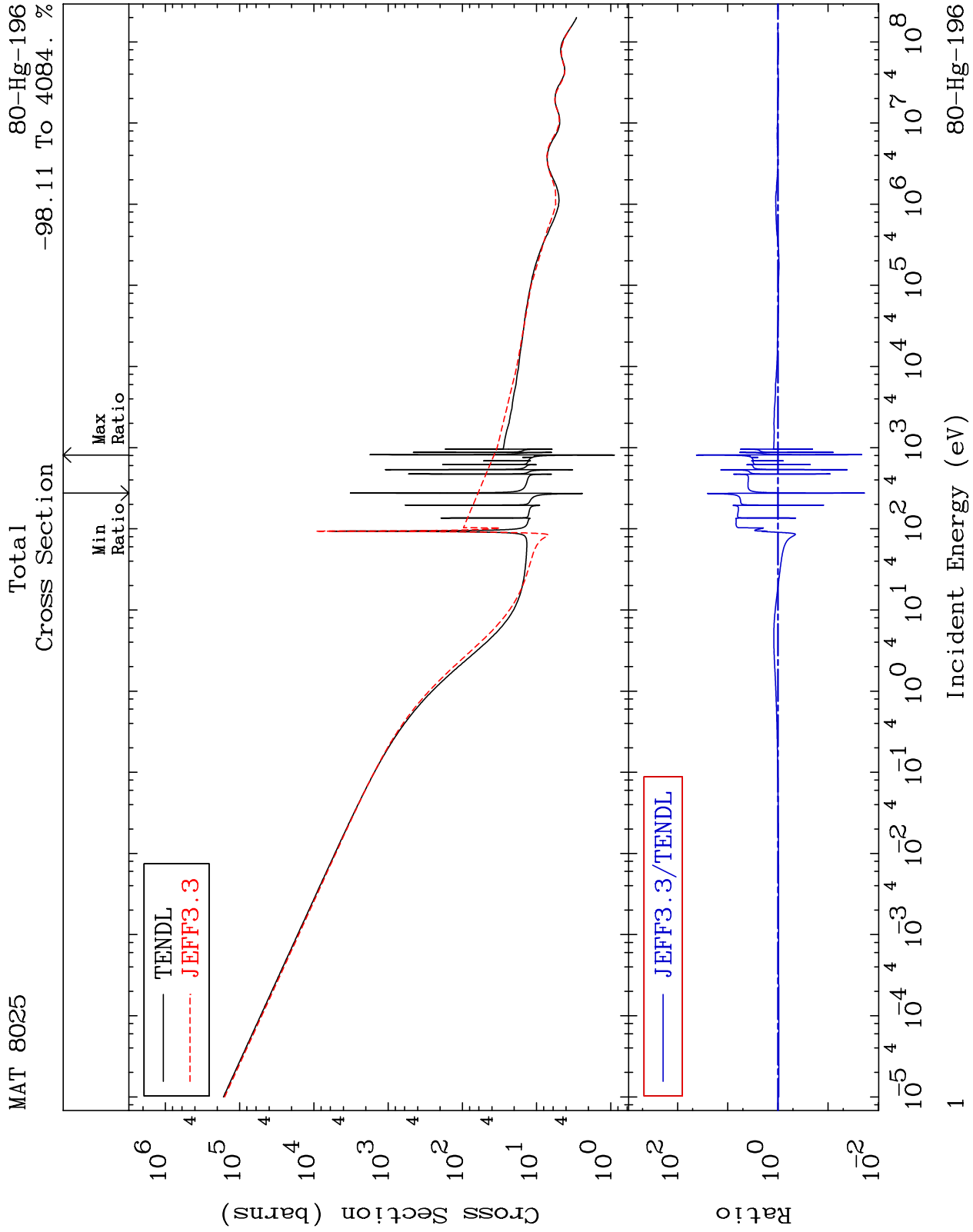
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

U.S.A.

Tele: 925-443-1911

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

Press Mouse Button to Start



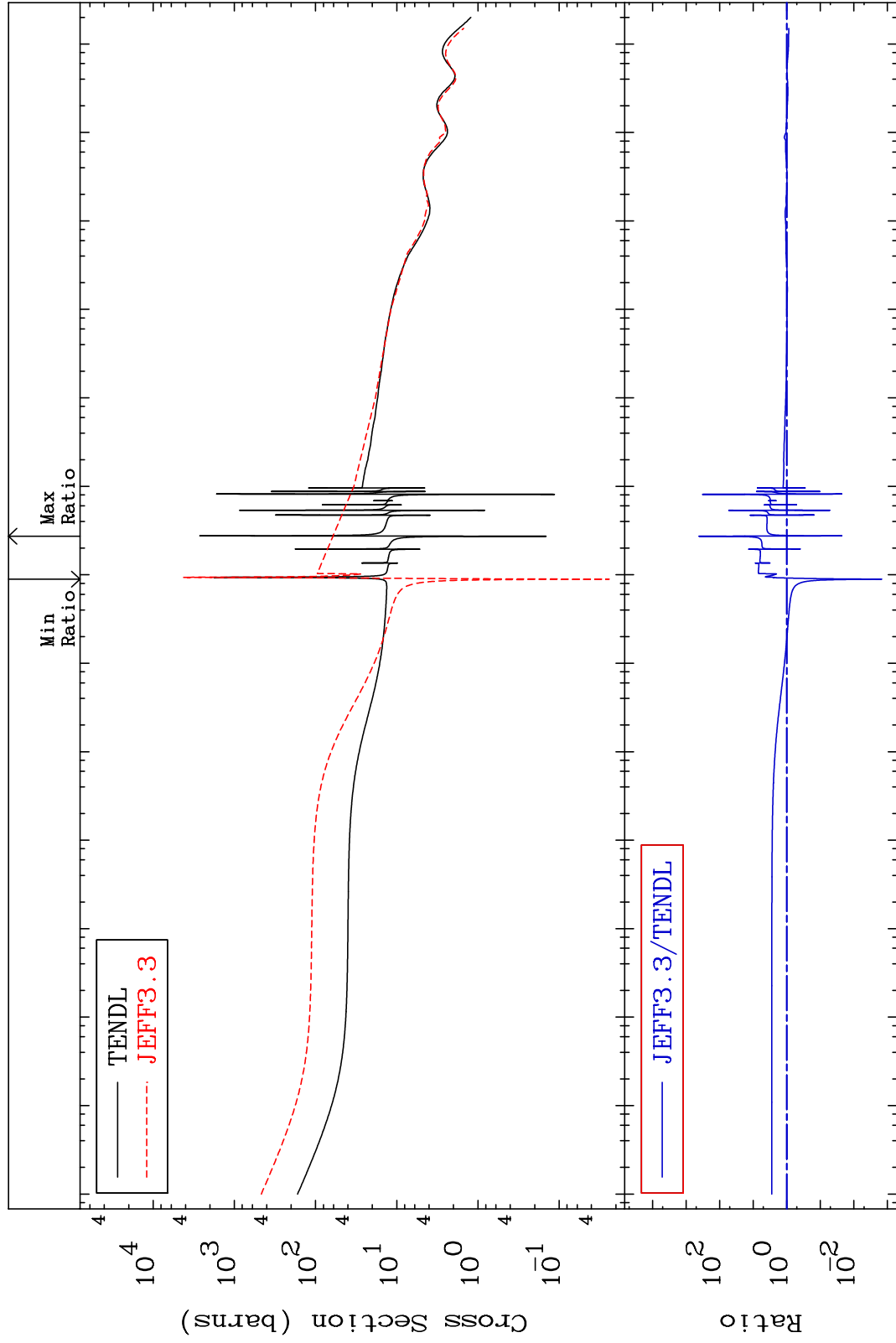
MAT 8025

Elastic

80-Hg-196

-99.85 To 9999. %

Cross Section



2

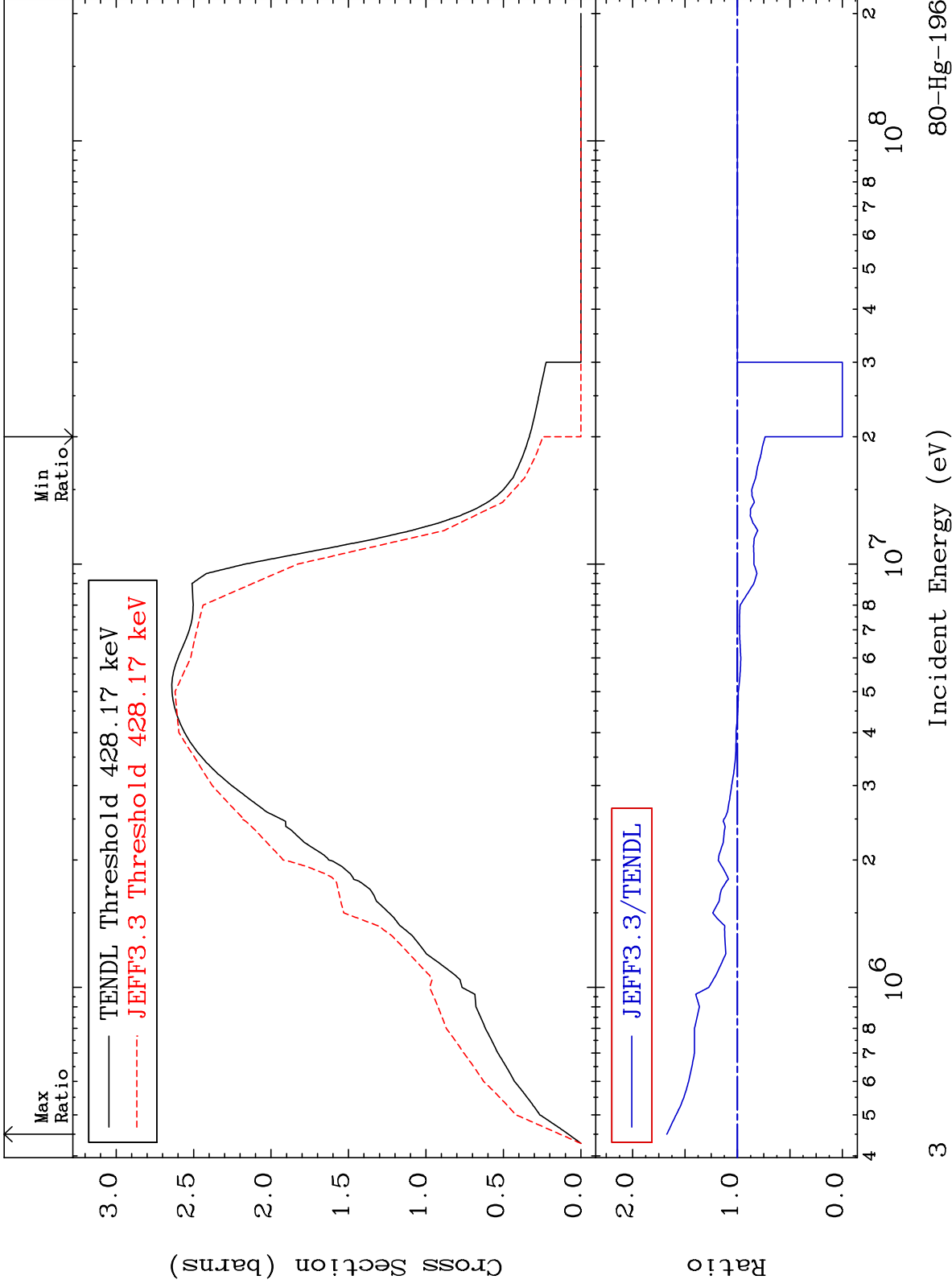
Incident Energy (eV)

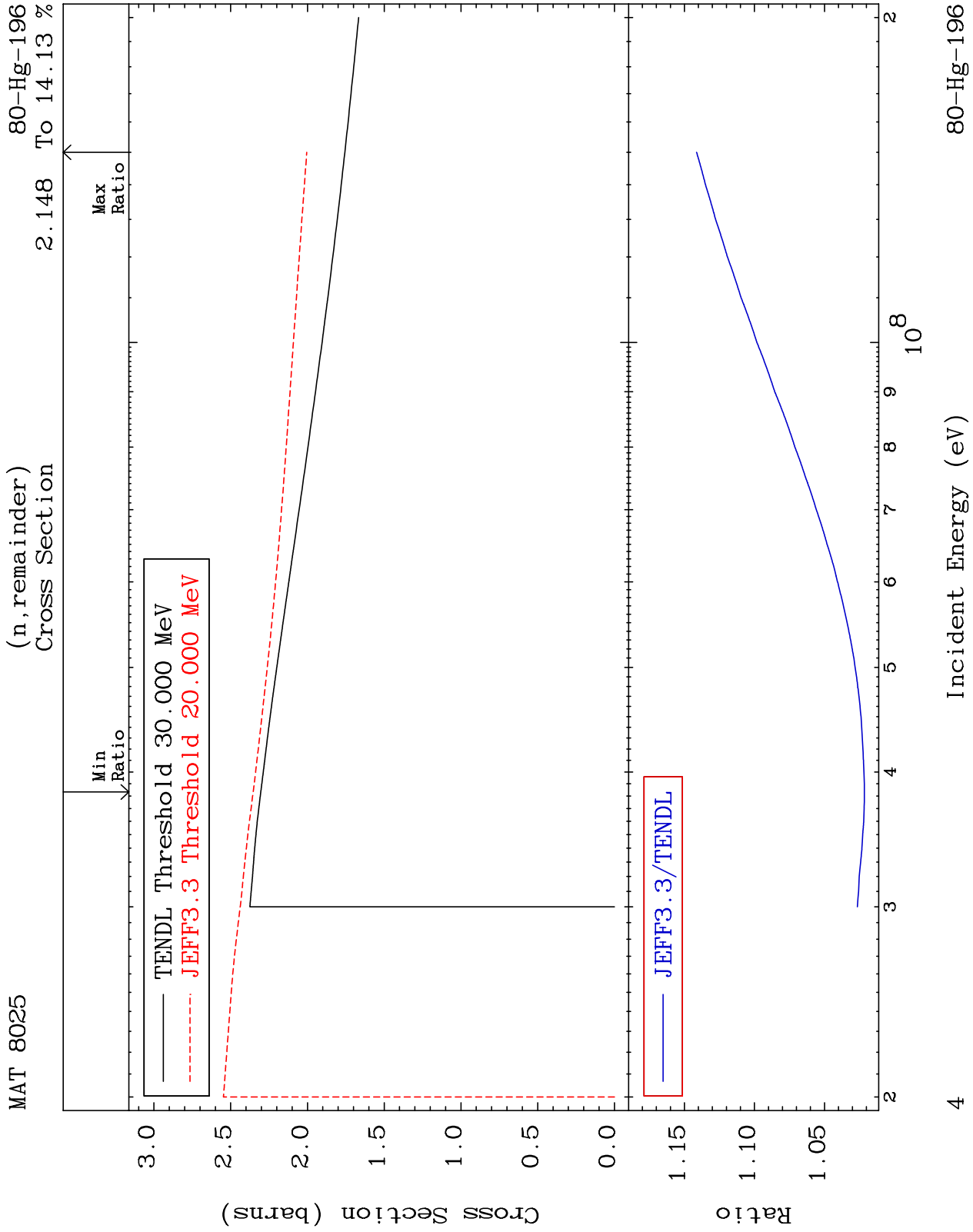
80-Hg-196

MAT 8025

Inelastic
Cross Section

80-Hg-196
-100.0 To 67.33 %





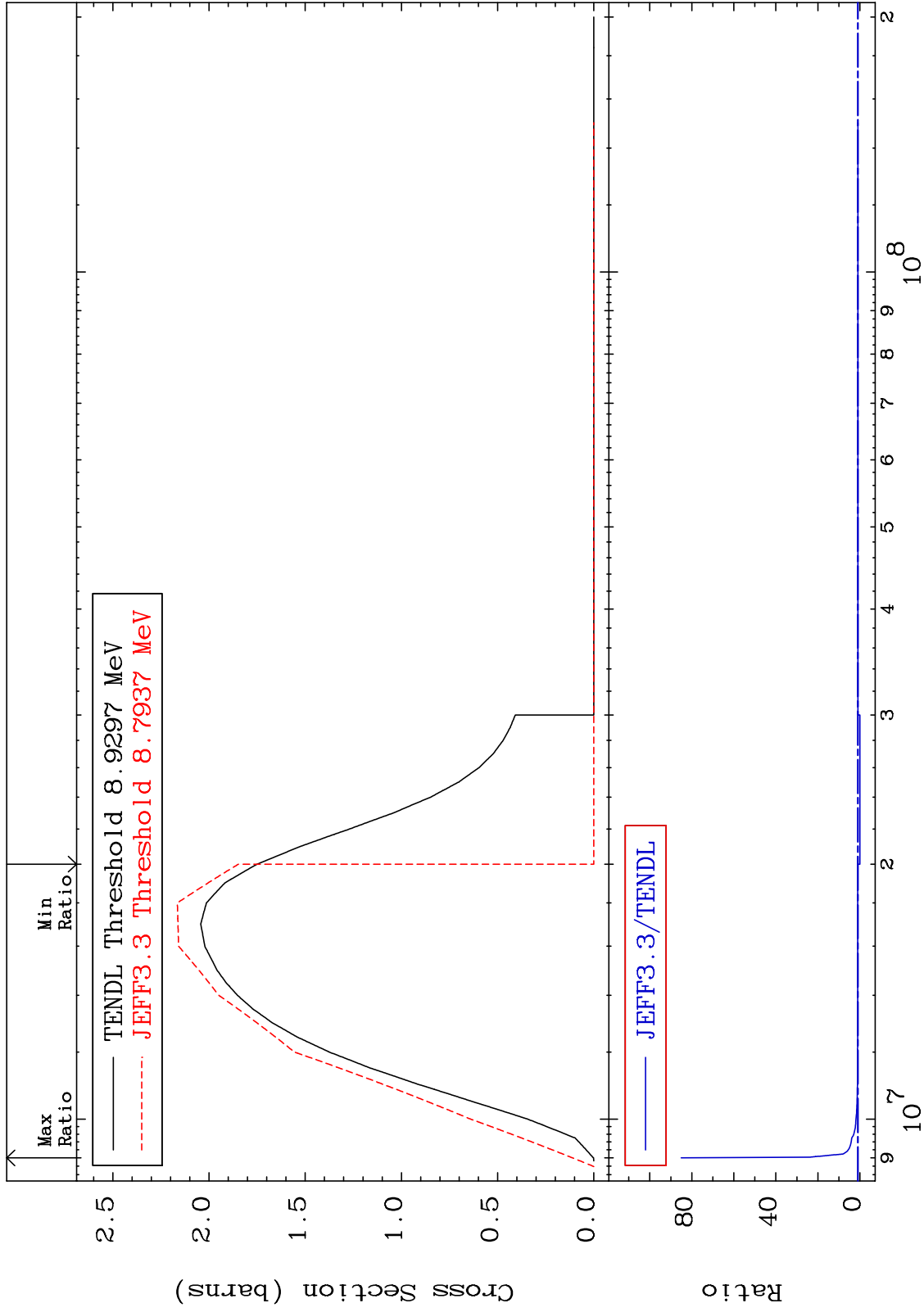
MAT 8025

(n,2n)

80-Hg-196

Cross Section

-100.0 To 8404. %



80-Hg-196

Incident Energy (eV)

5

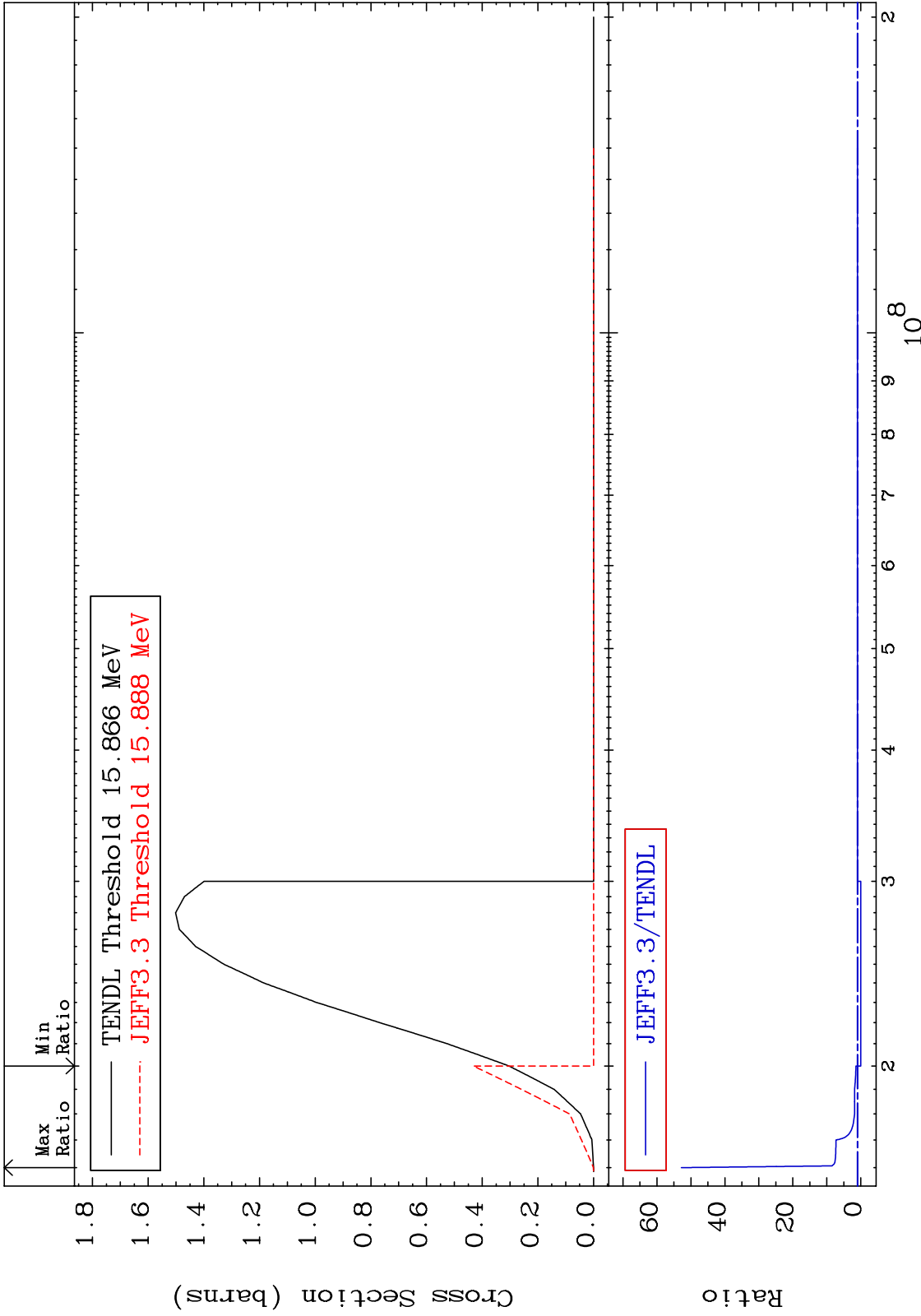
MAT 8025

(n, 3n)

80-Hg-196

Cross Section

-100.0 To 5180. %



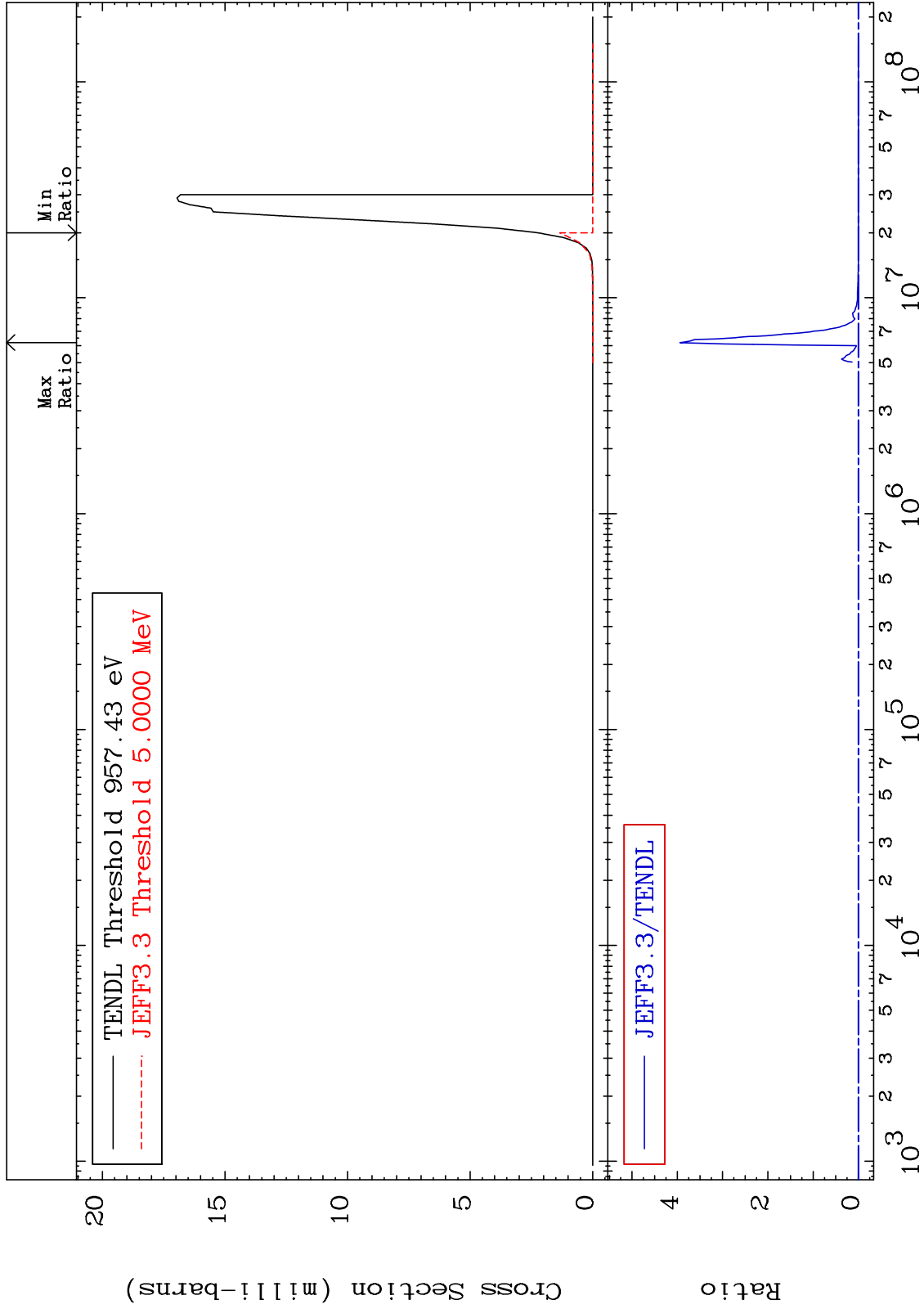
MAT 8025

(n, n') α

80-Hg-196

Cross Section

-100.0 To 9999. %



— TENDL Threshold 957.43 eV
- - - JEFF3.3 Threshold 5.0000 MeV

— JEFF3.3/TENDL

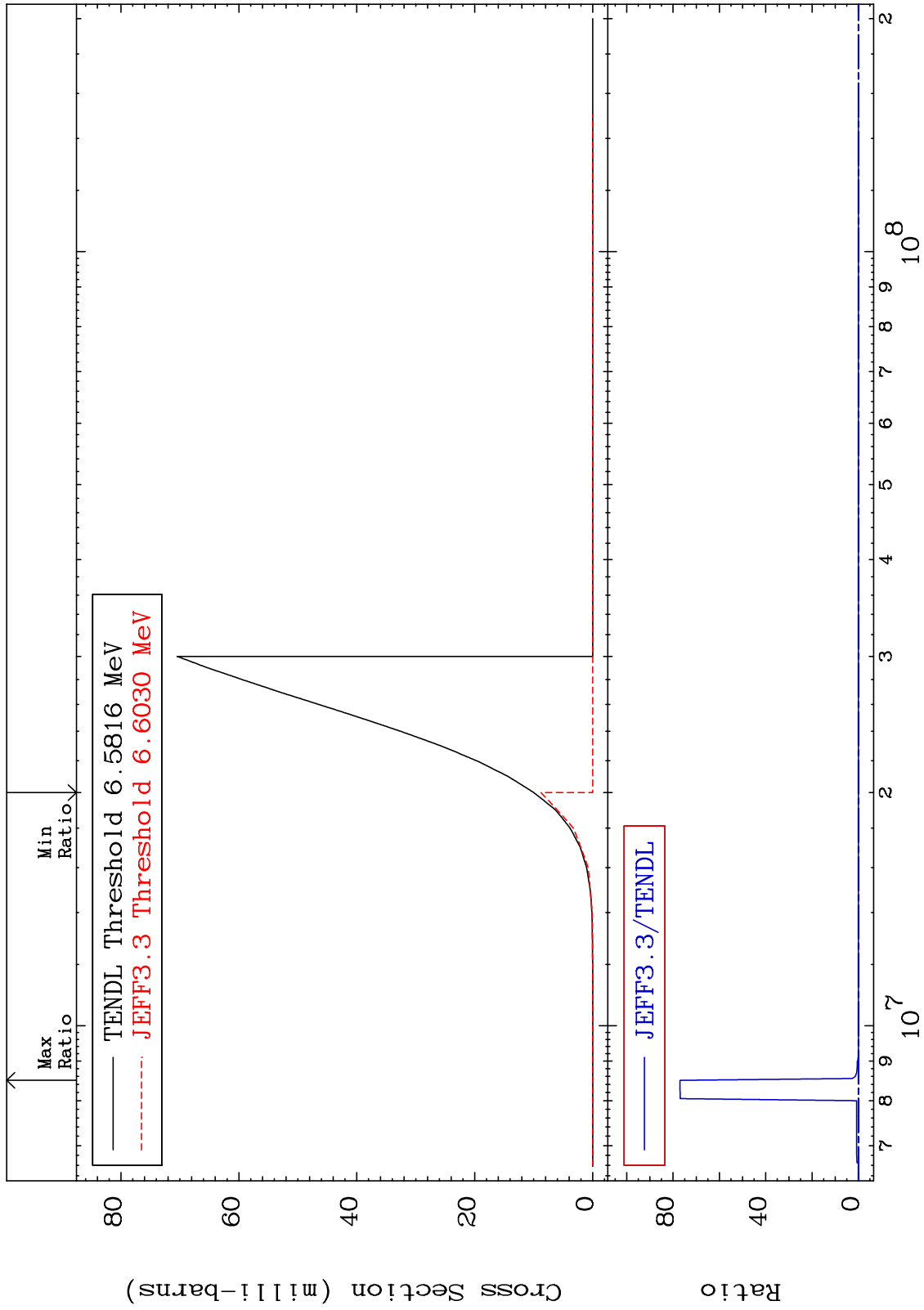
Incident Energy (eV)

80-Hg-196

MAT 8025

(n, n') p
Cross Section

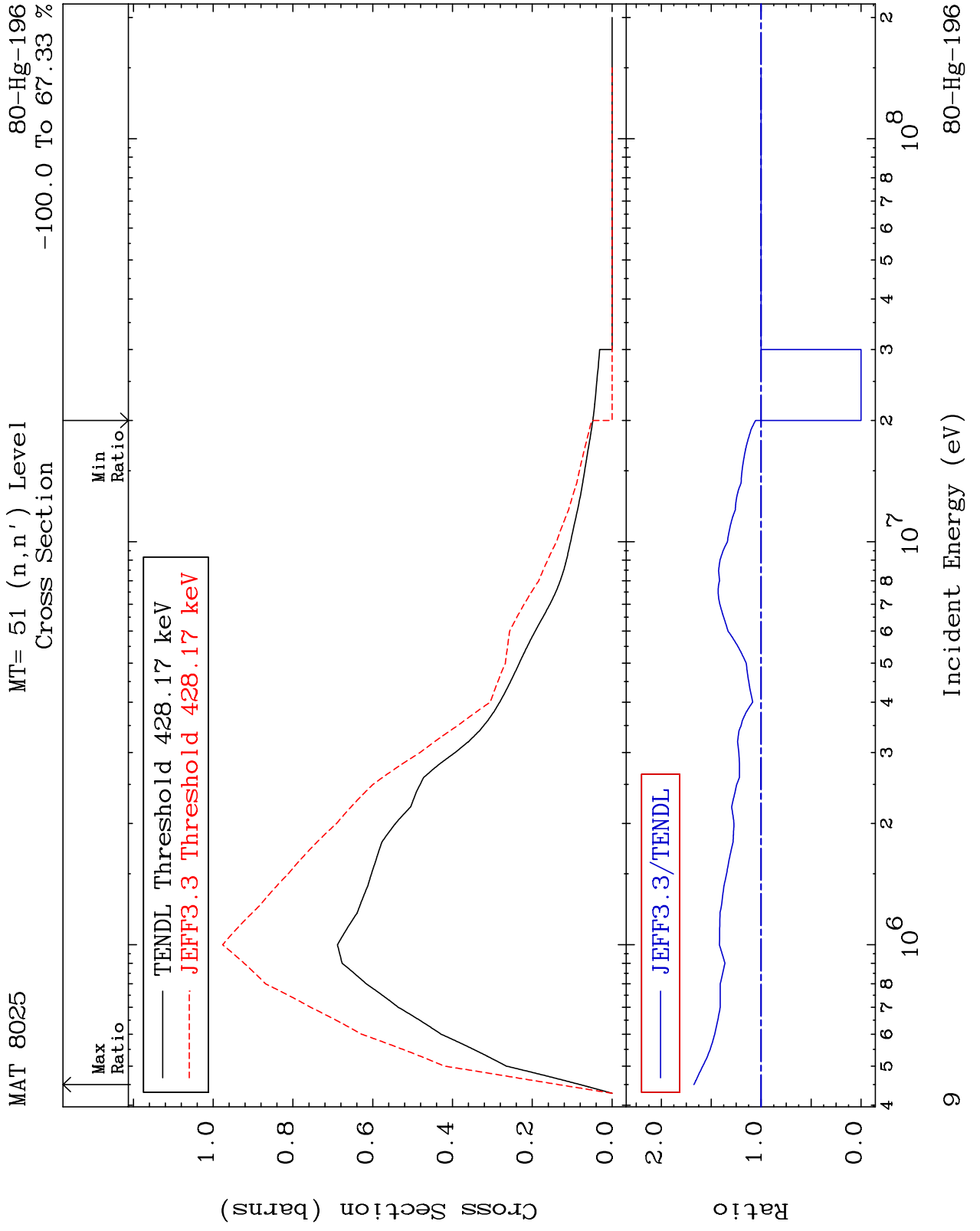
80-Hg-196
-100.0 To 9999. %



8

Incident Energy (eV)

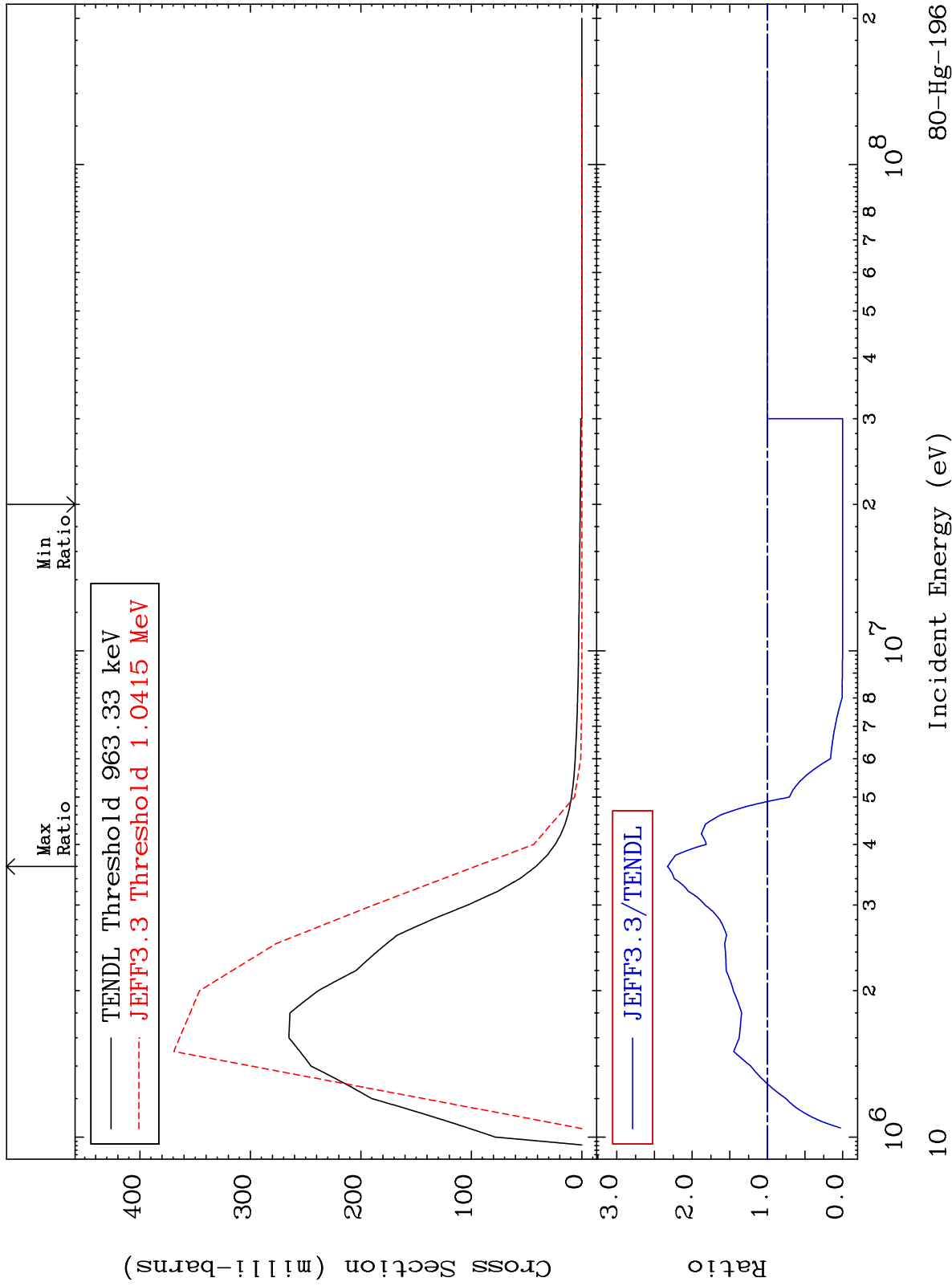
80-Hg-196



MAT 8025

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

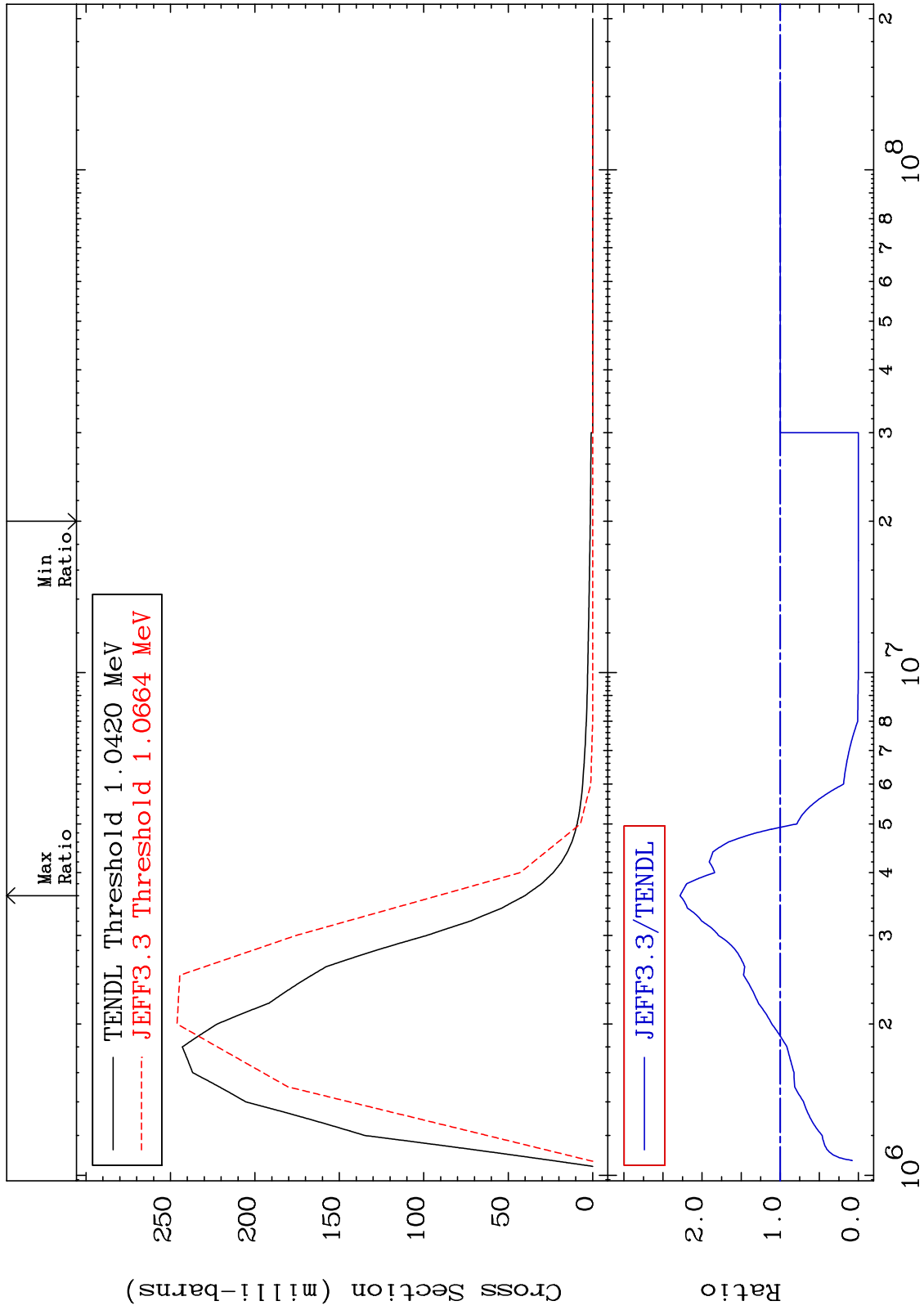
80-Hg-196
-100.0 To 132.5 %



MAT 8025

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

80-Hg-196
-100.0 To 128.2 %



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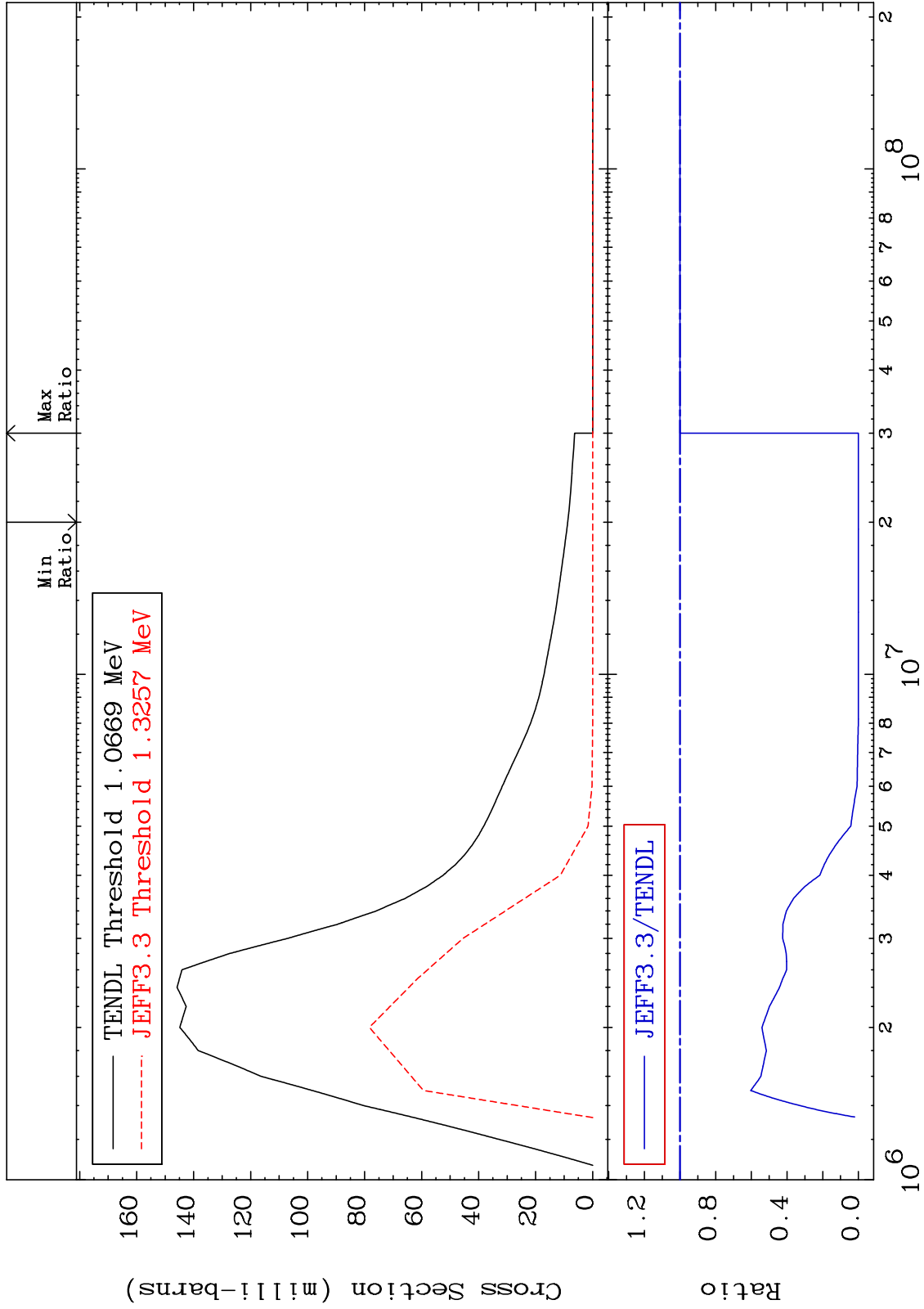
Incident Energy (eV)

80-Hg-196

MAT 8025

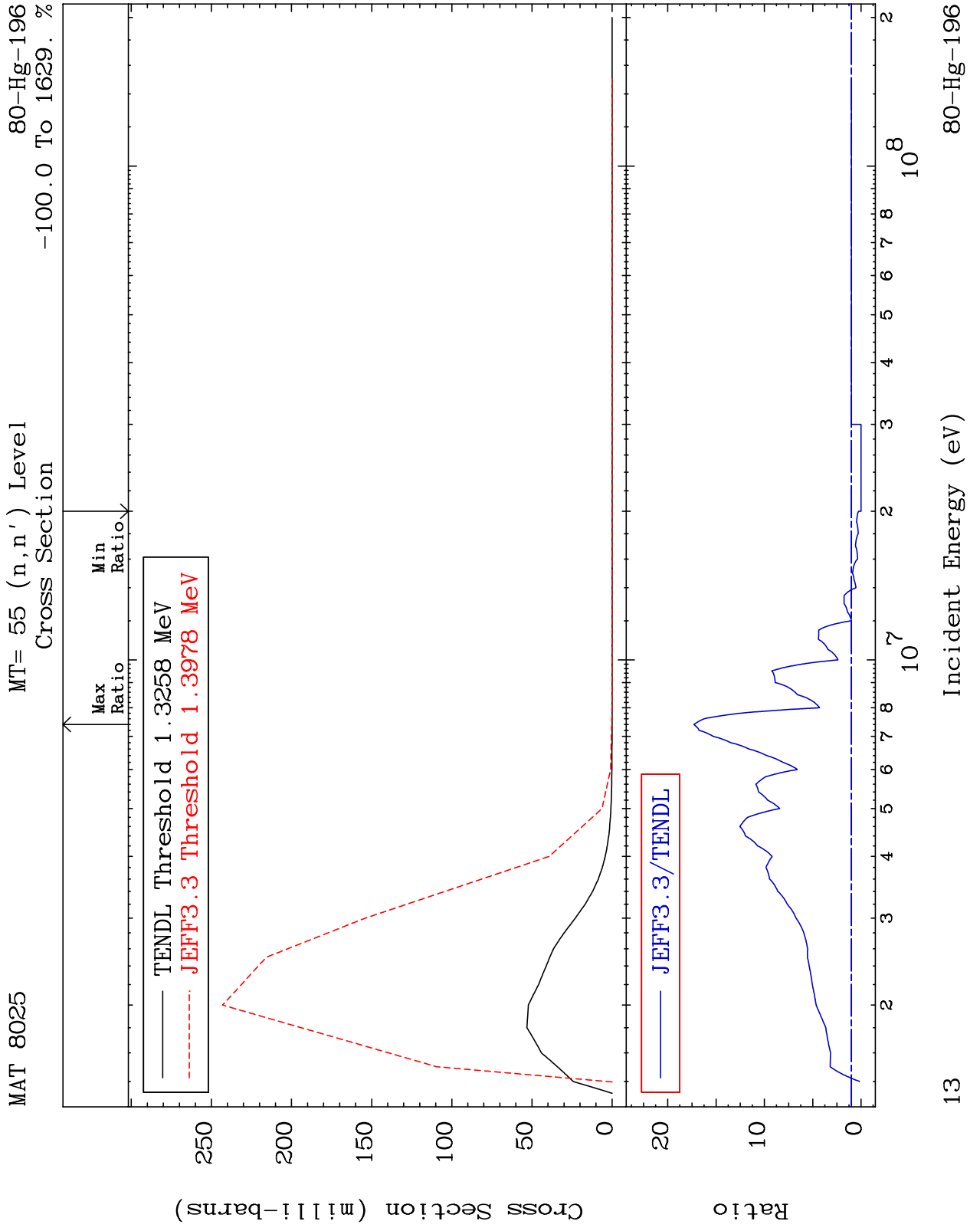
MT= 54 (n, n') Level
Cross Section

80-Hg-196
-100.0 To 0.000 %

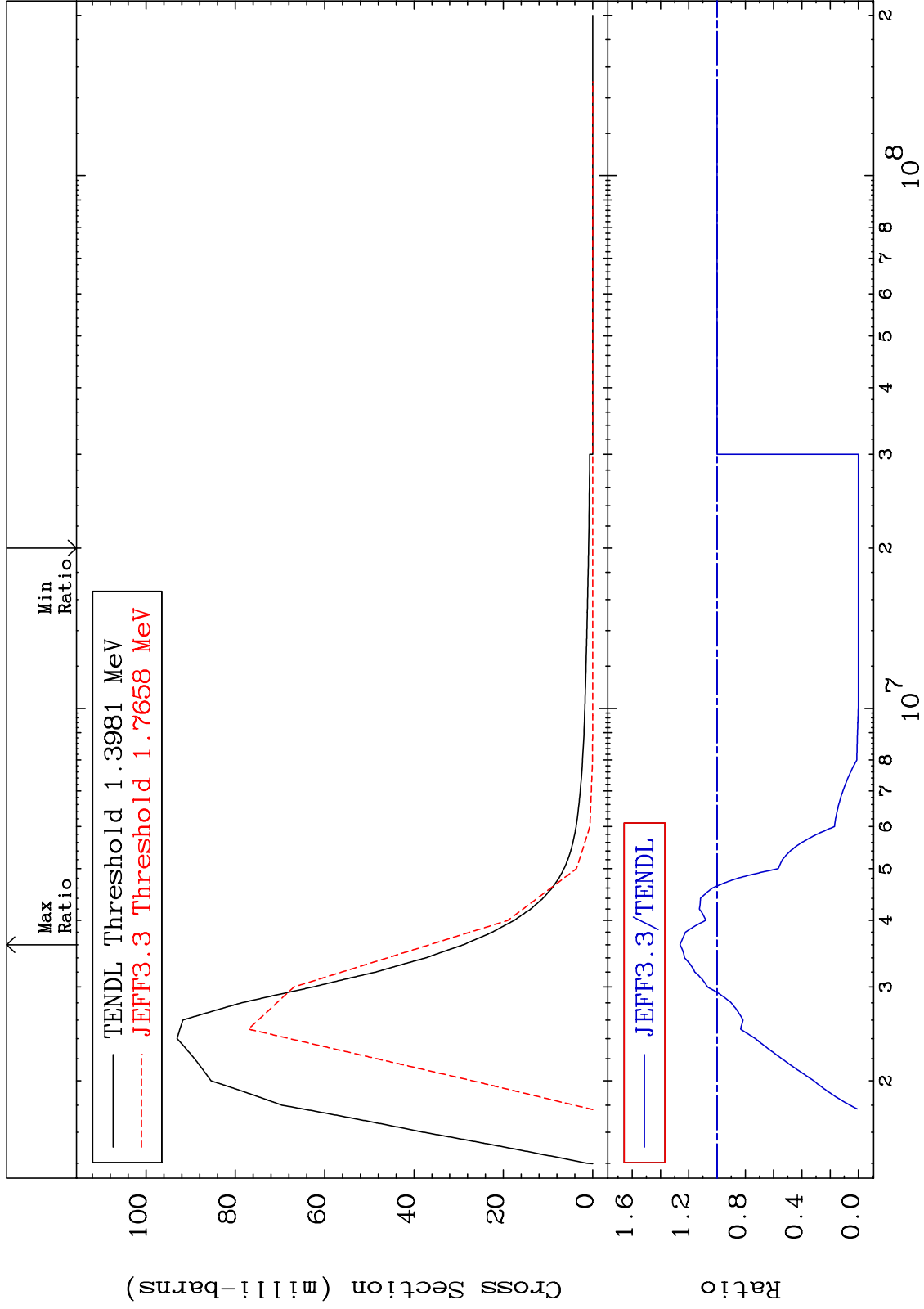


Incident Energy (eV)

80-Hg-196

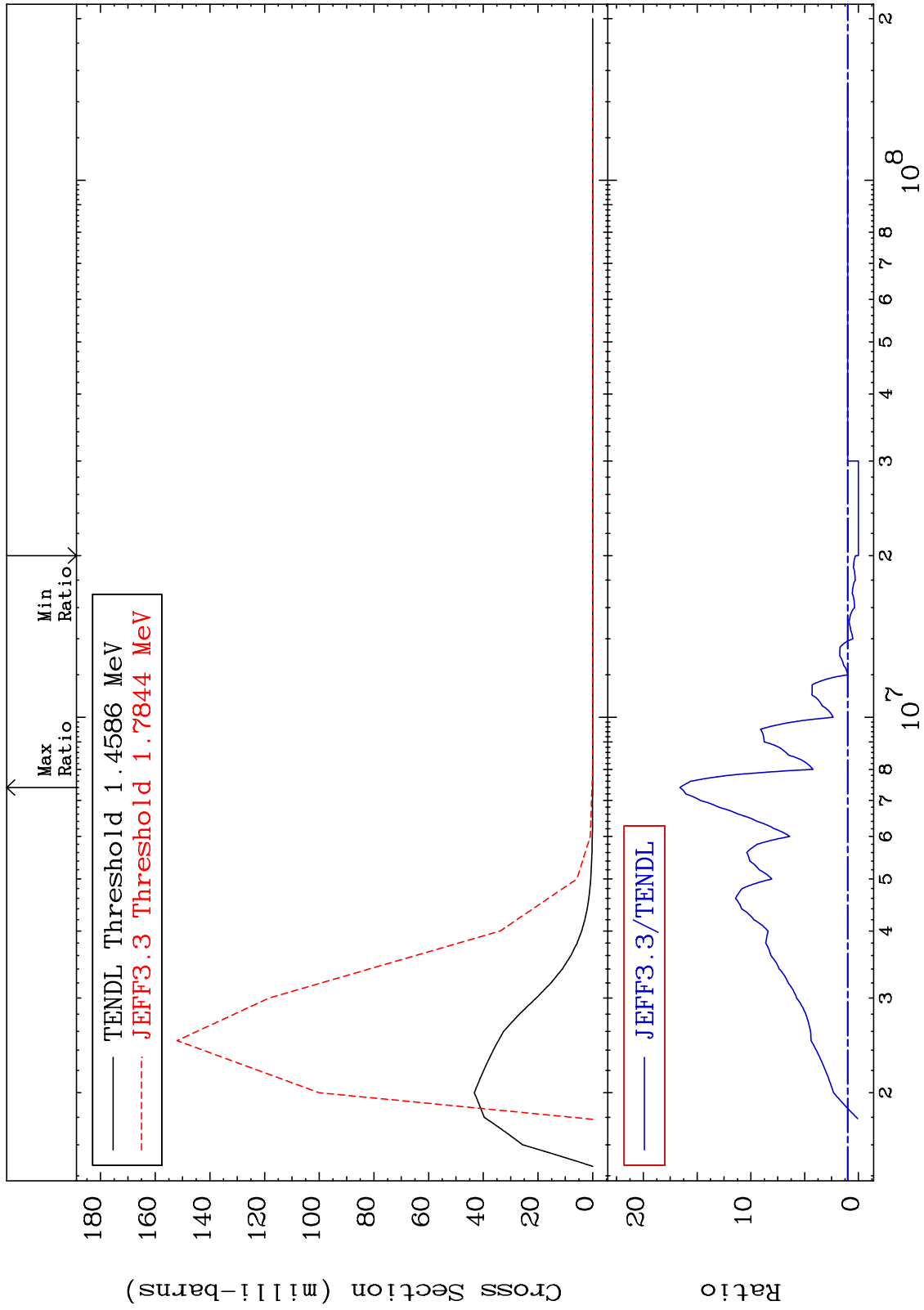


MAT 8025 MT= 56 (n, n') Level Cross Section 80-Hg-196
 -100.0 To 26.19 %

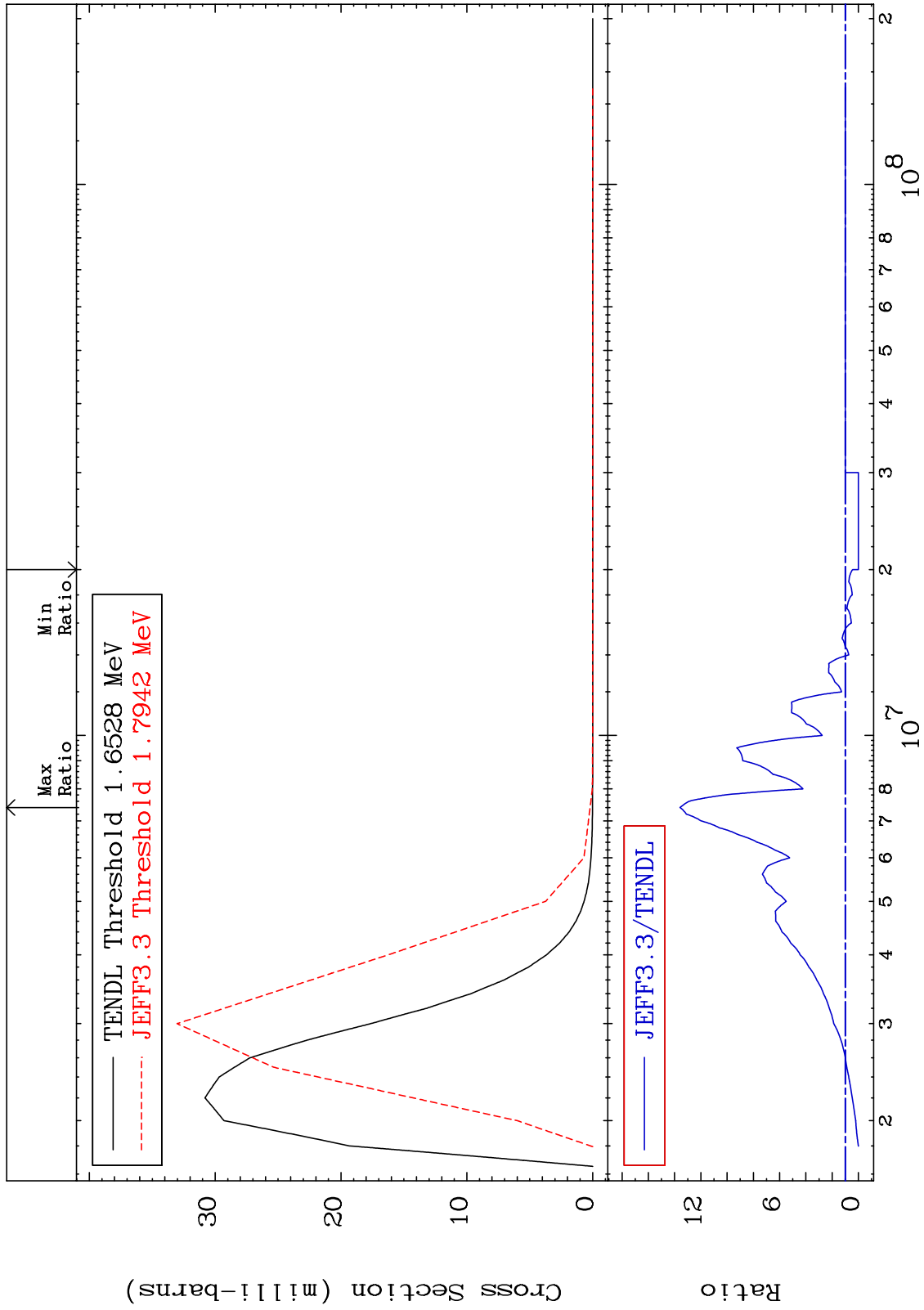


Incident Energy (eV) 80-Hg-196

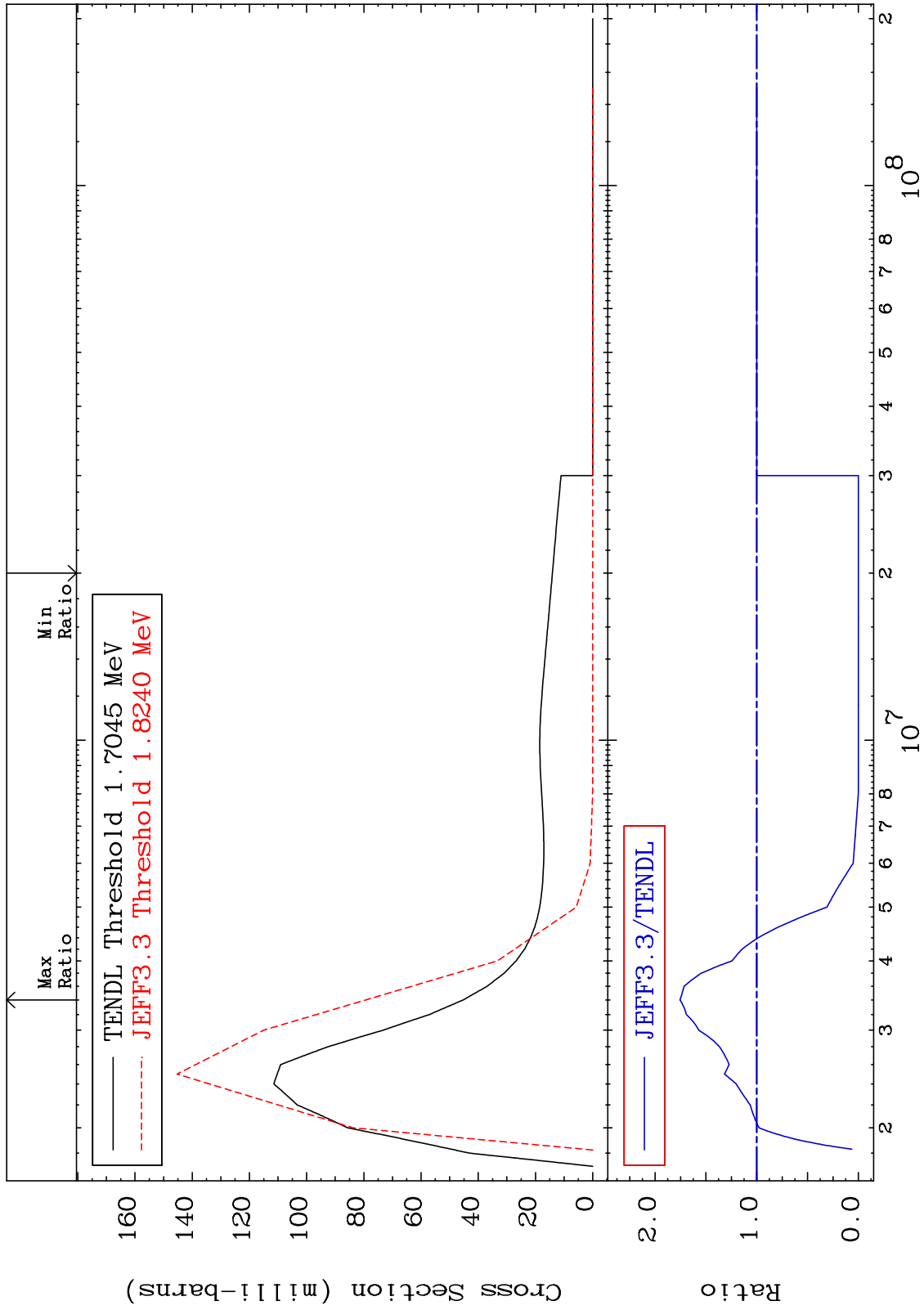
MAT 8025 MT= 57 (n, n') Level Cross Section 80-Hg-196
 -100.0 To 1559. %

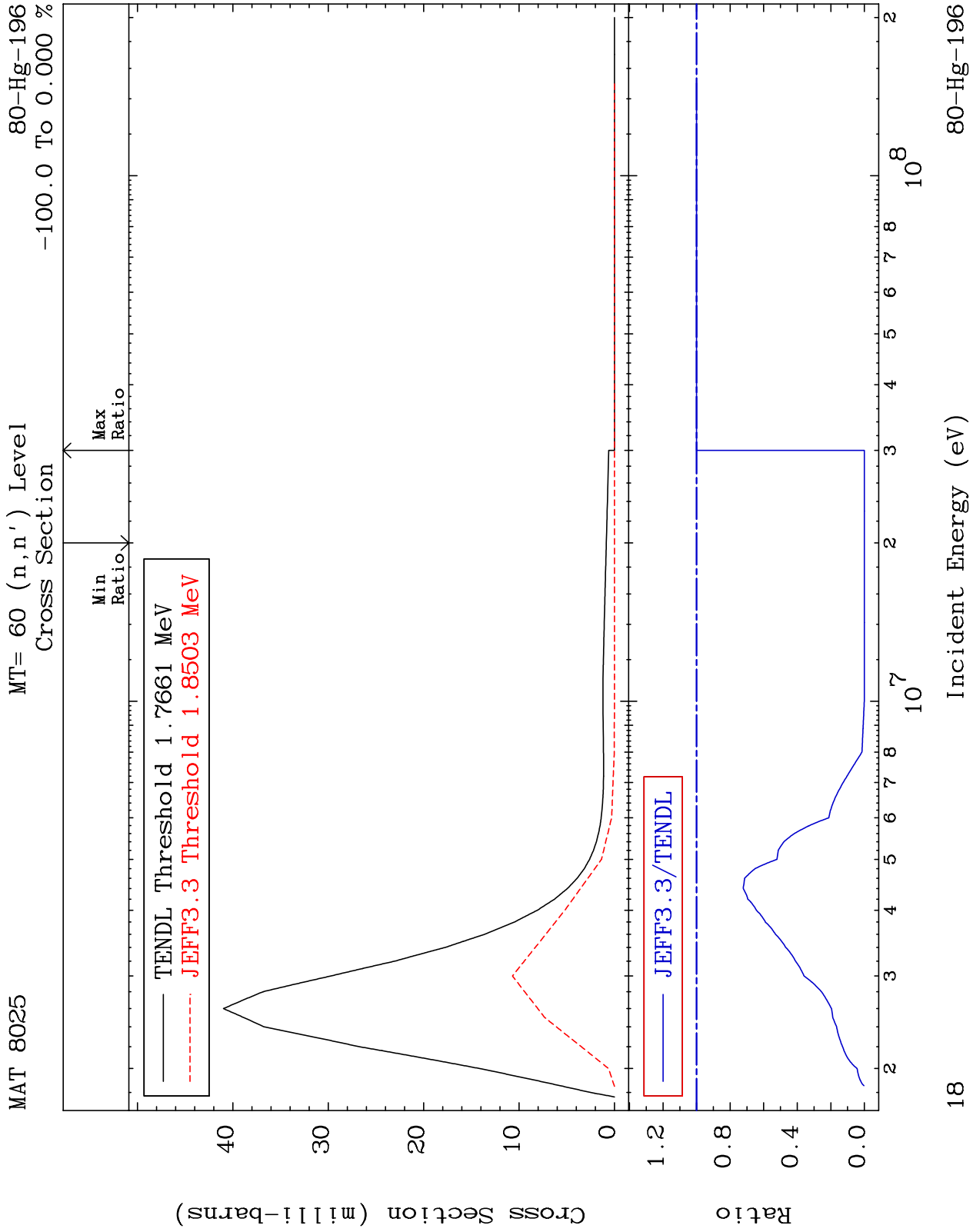


MAT 8025 MT= 58 (n,n') Level Cross Section 80-Hg-196
 -100.0 To 1259. %



MAT 8025 MT= 59 (n,n') Level Cross Section 80-Hg-196
 -100.0 To 75.52 %

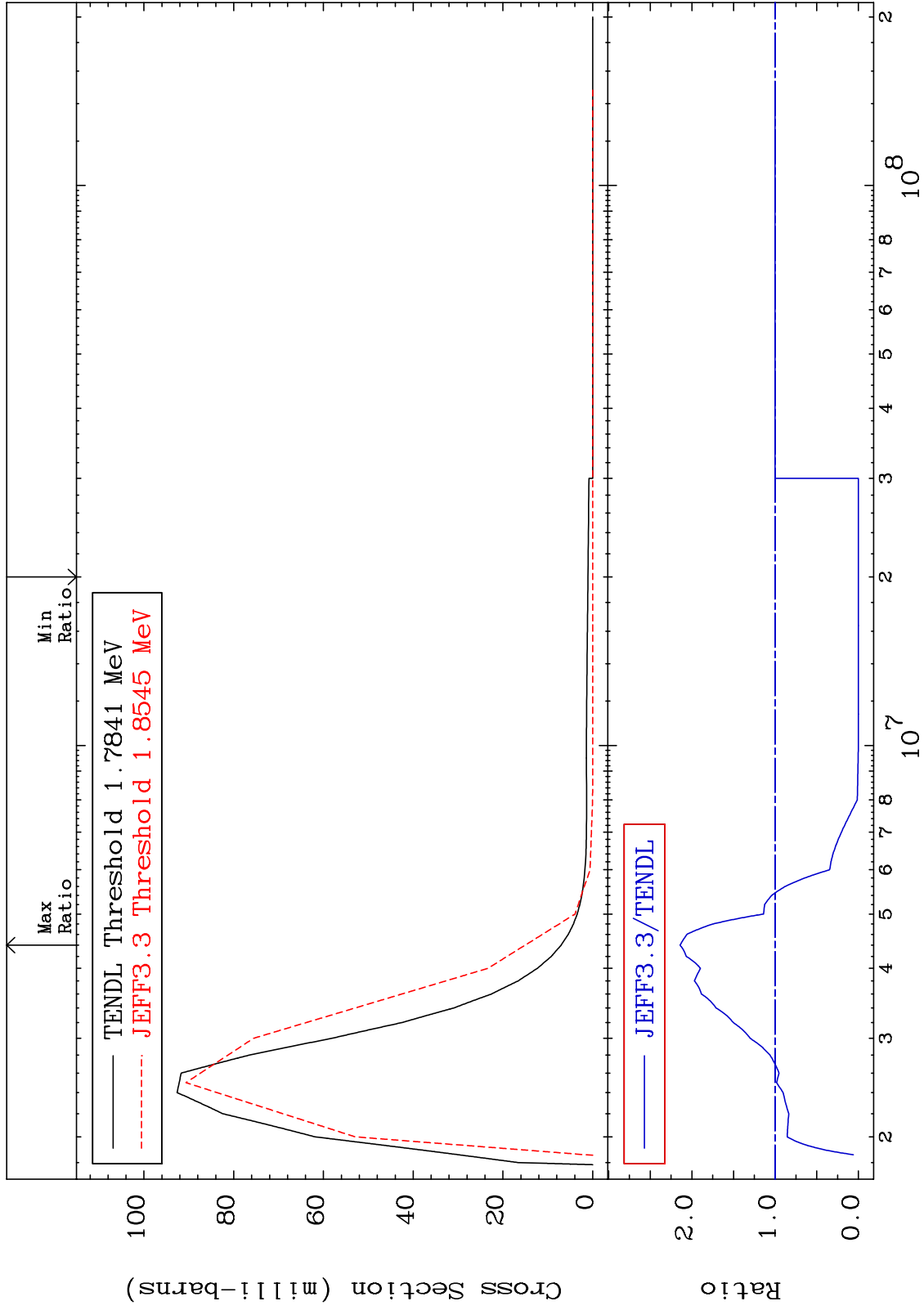




MAT 8025

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

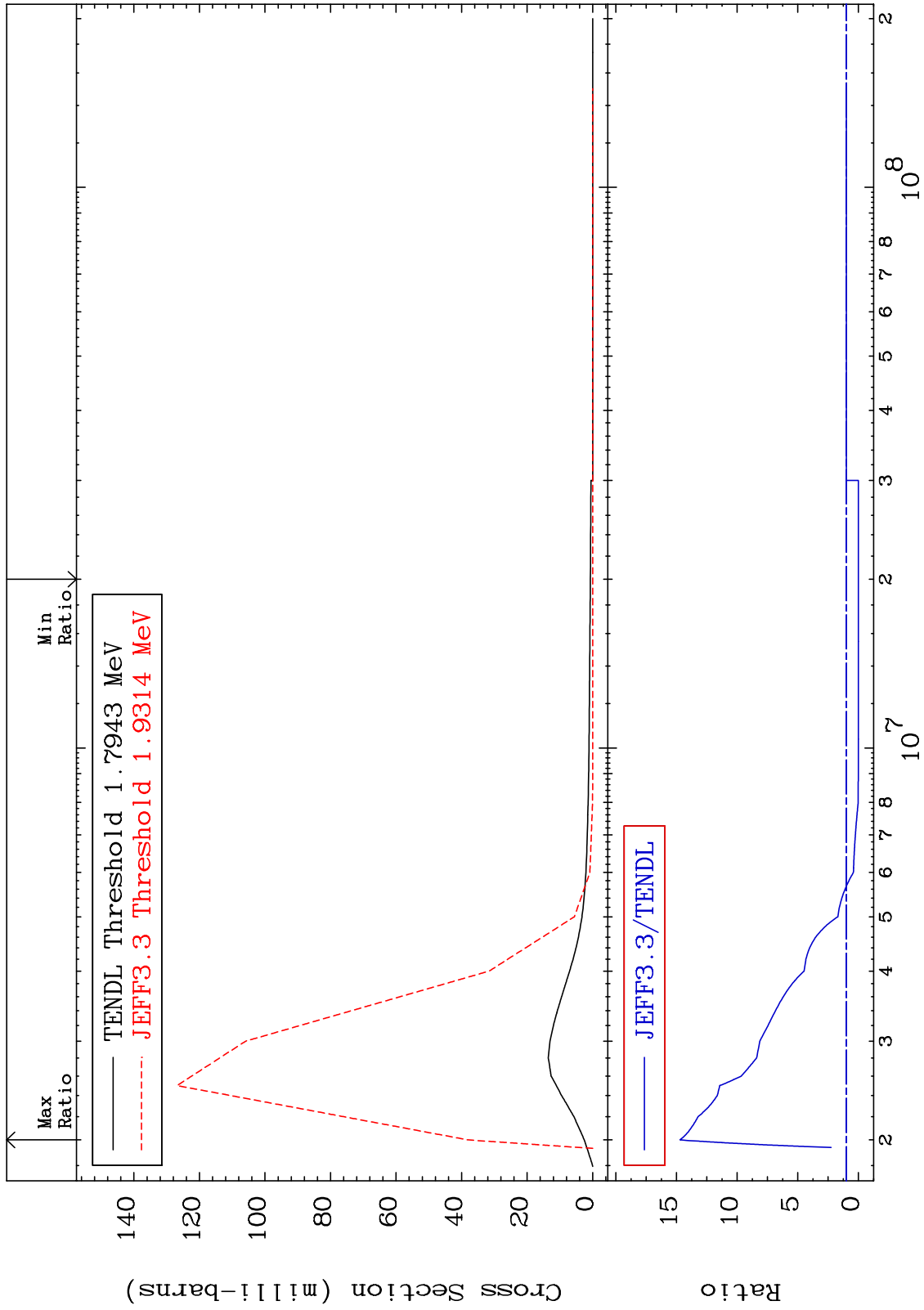
80-Hg-196
-100.0 To 114.2 %



MAT 8025

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

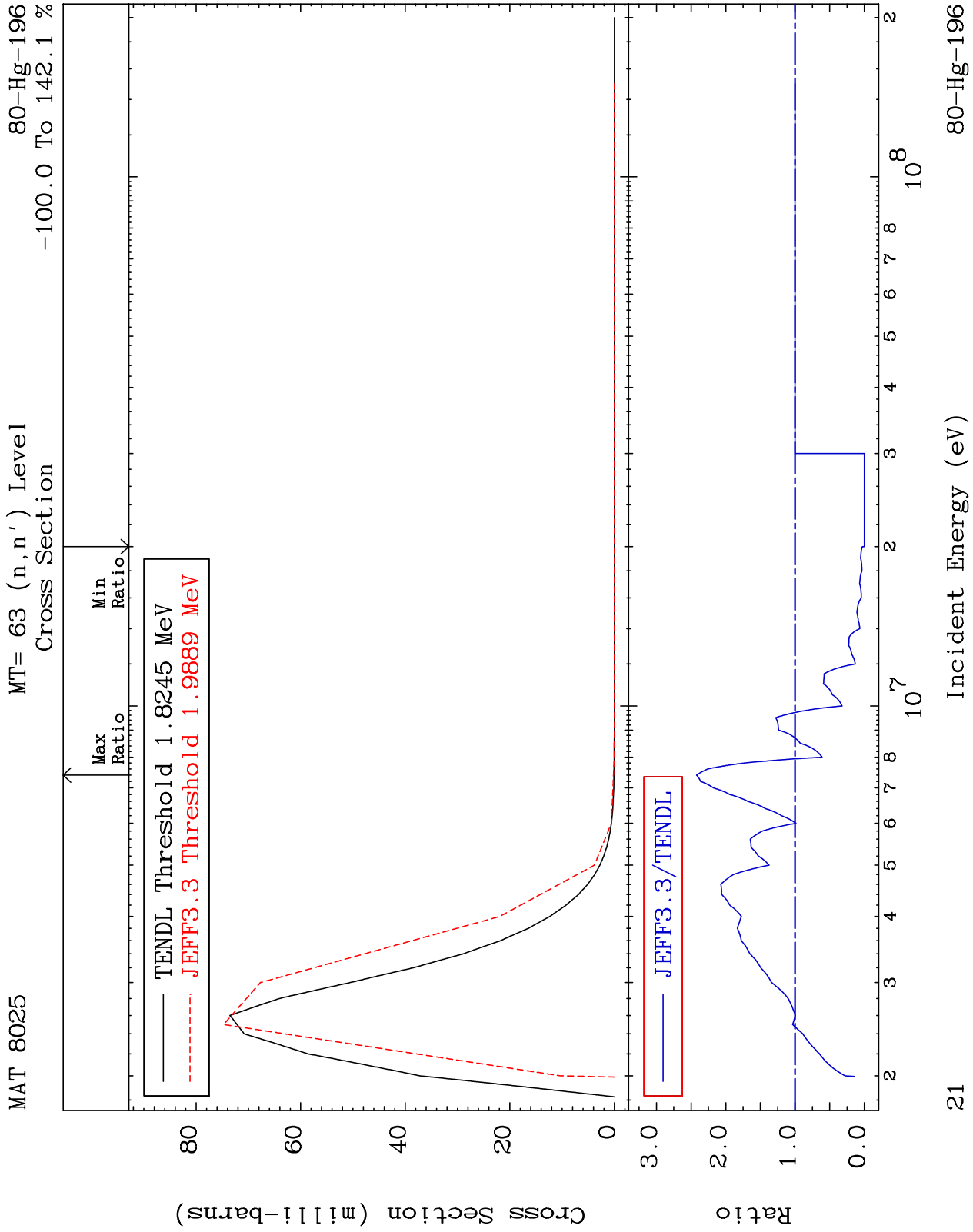
80-Hg-196
-100.0 To 1371. %



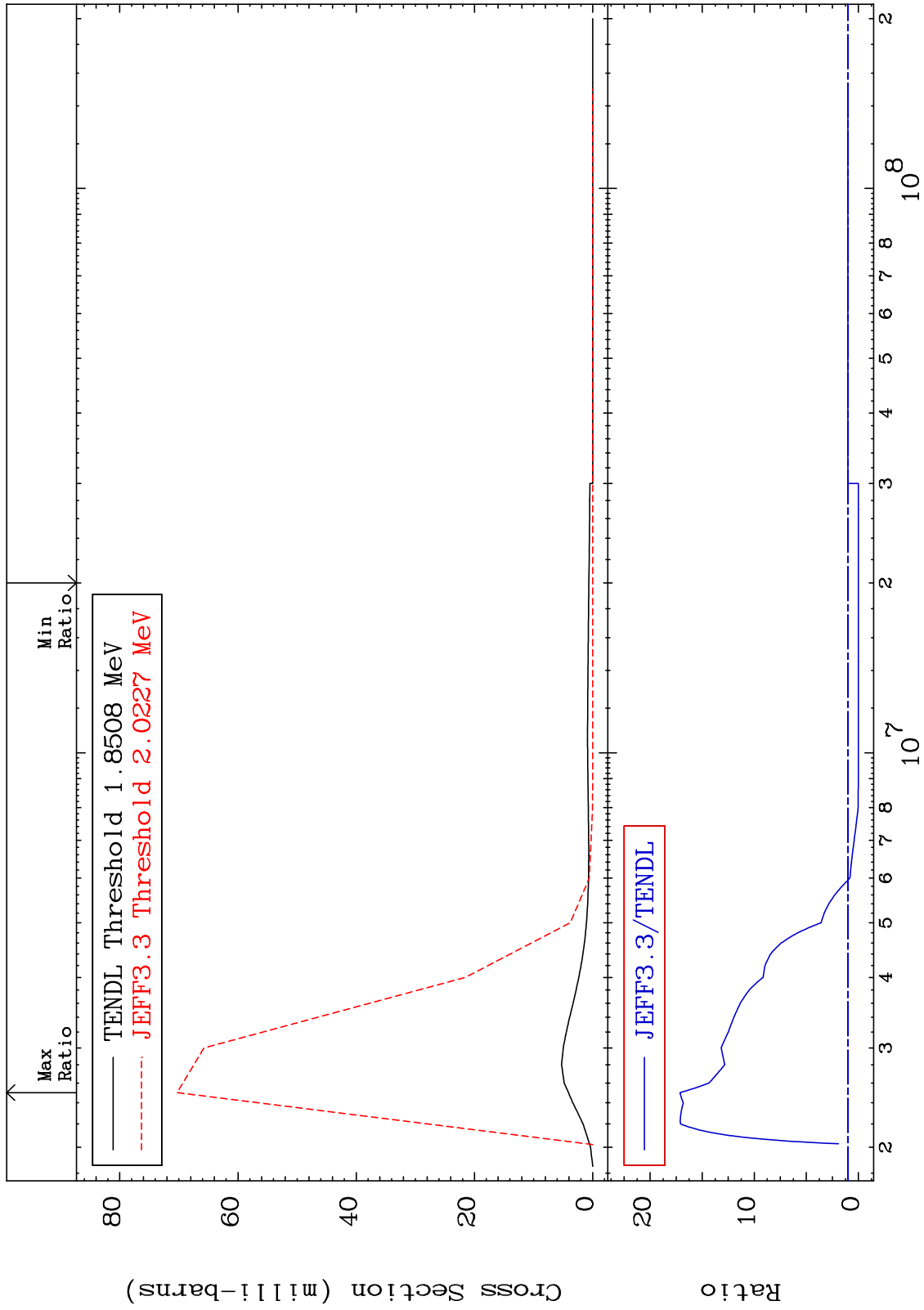
20

Incident Energy (eV)

80-Hg-196



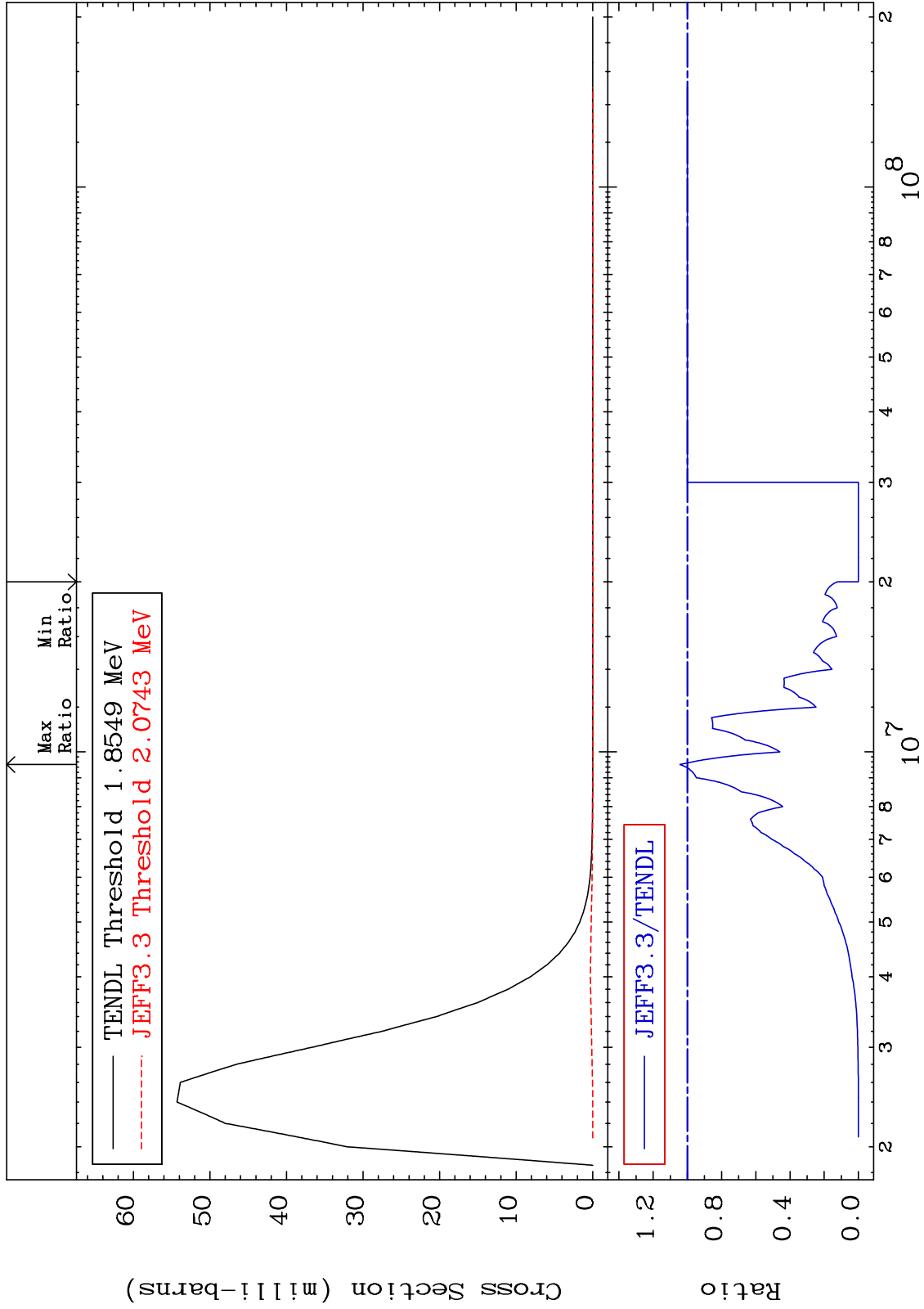
MAT 8025 MT= 64 (n, n') Level Cross Section 80-Hg-196
 -100.0 To 1613. %

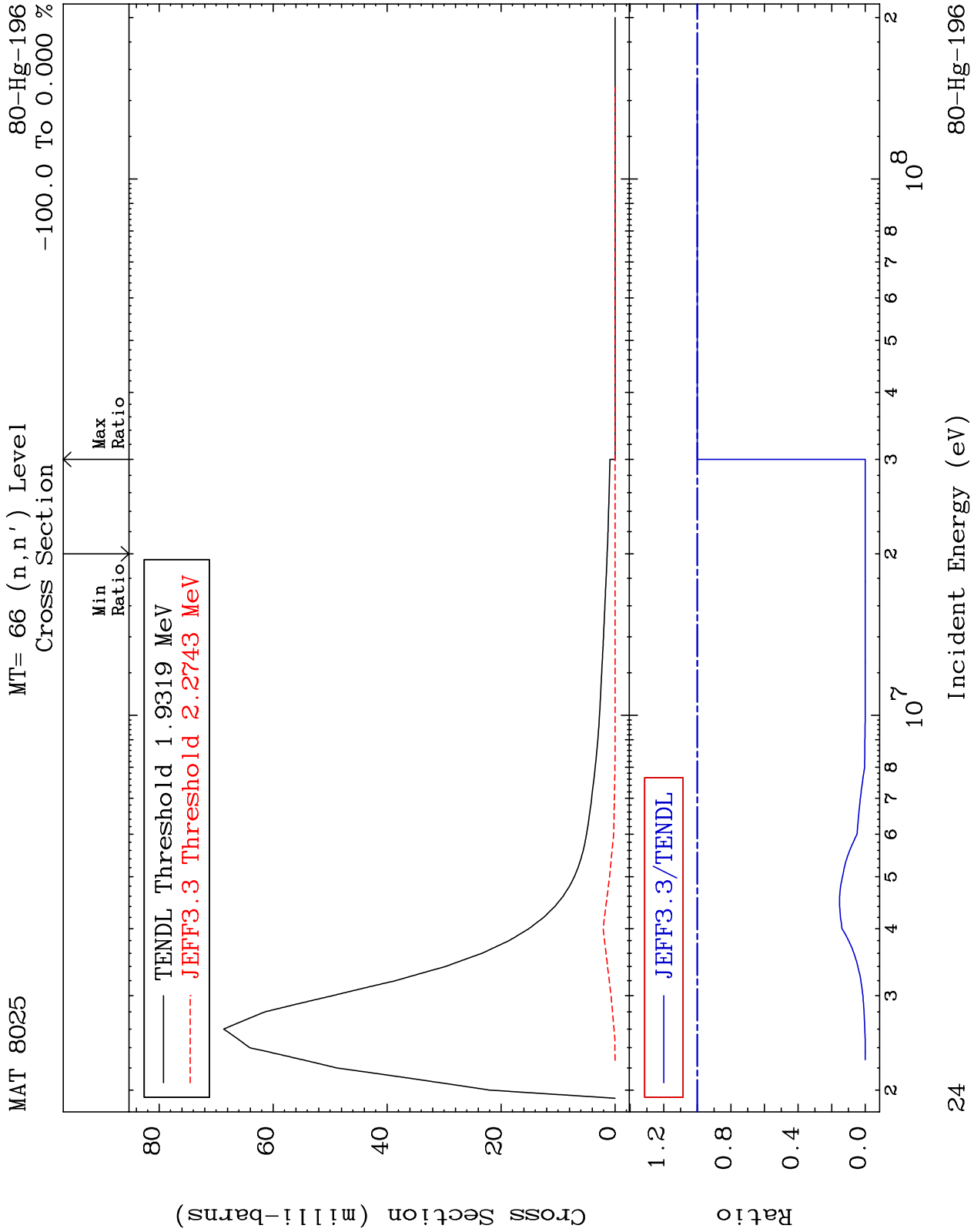


MAT 8025

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

80-Hg-196
-100.0 To 4.297 %

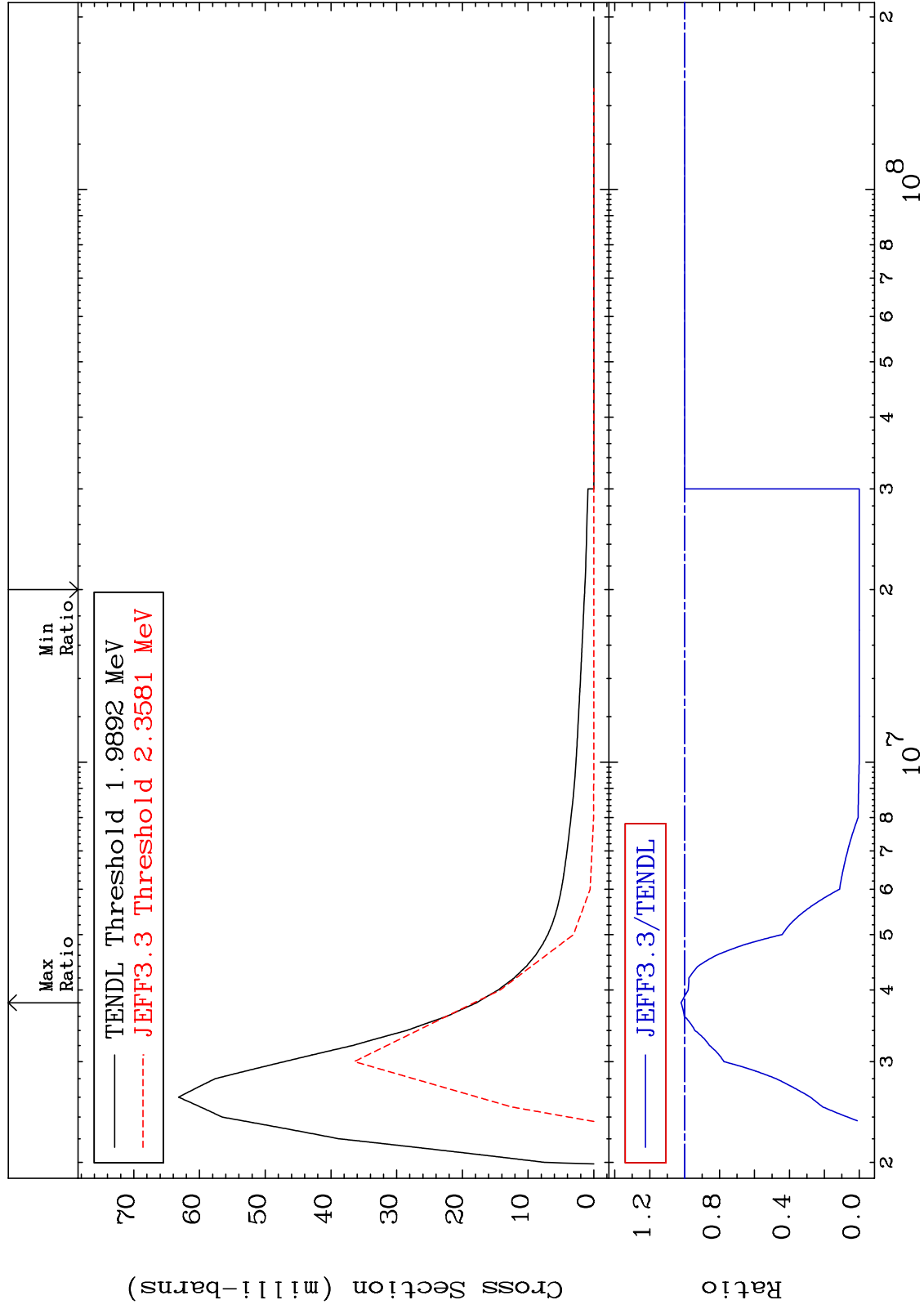




MAT 8025

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

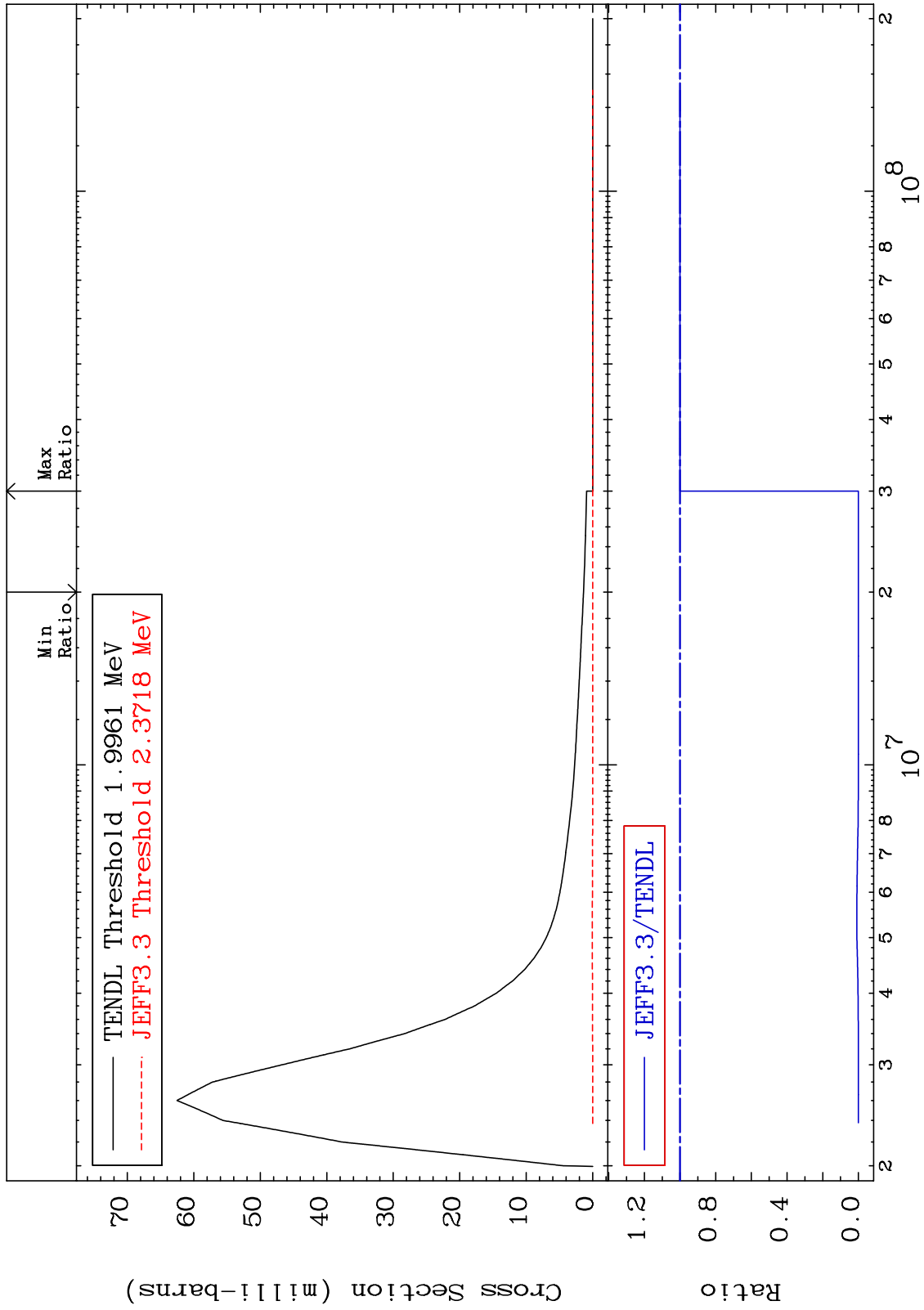
80-Hg-196
-100.0 To 2.066 %



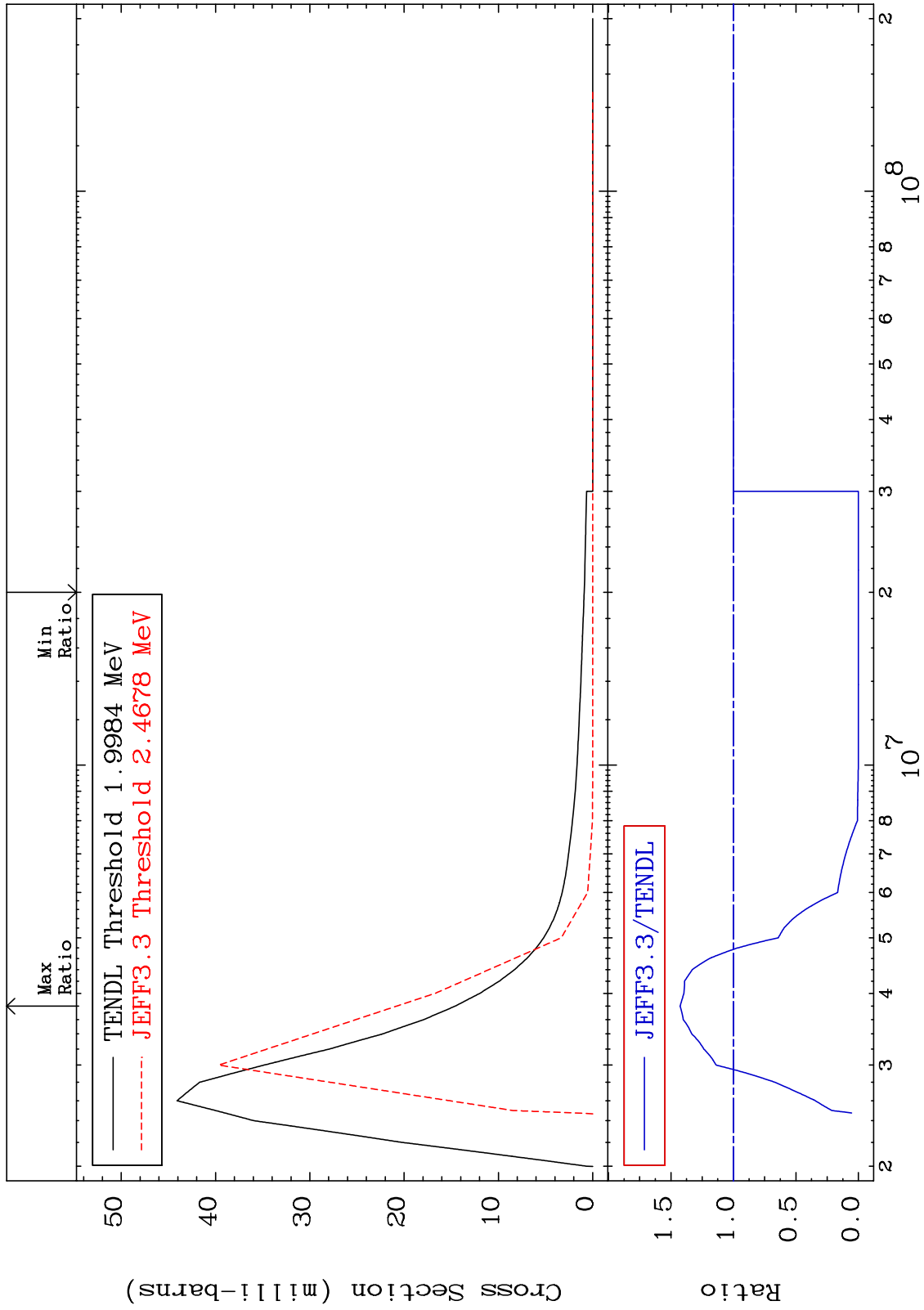
MAT 8025

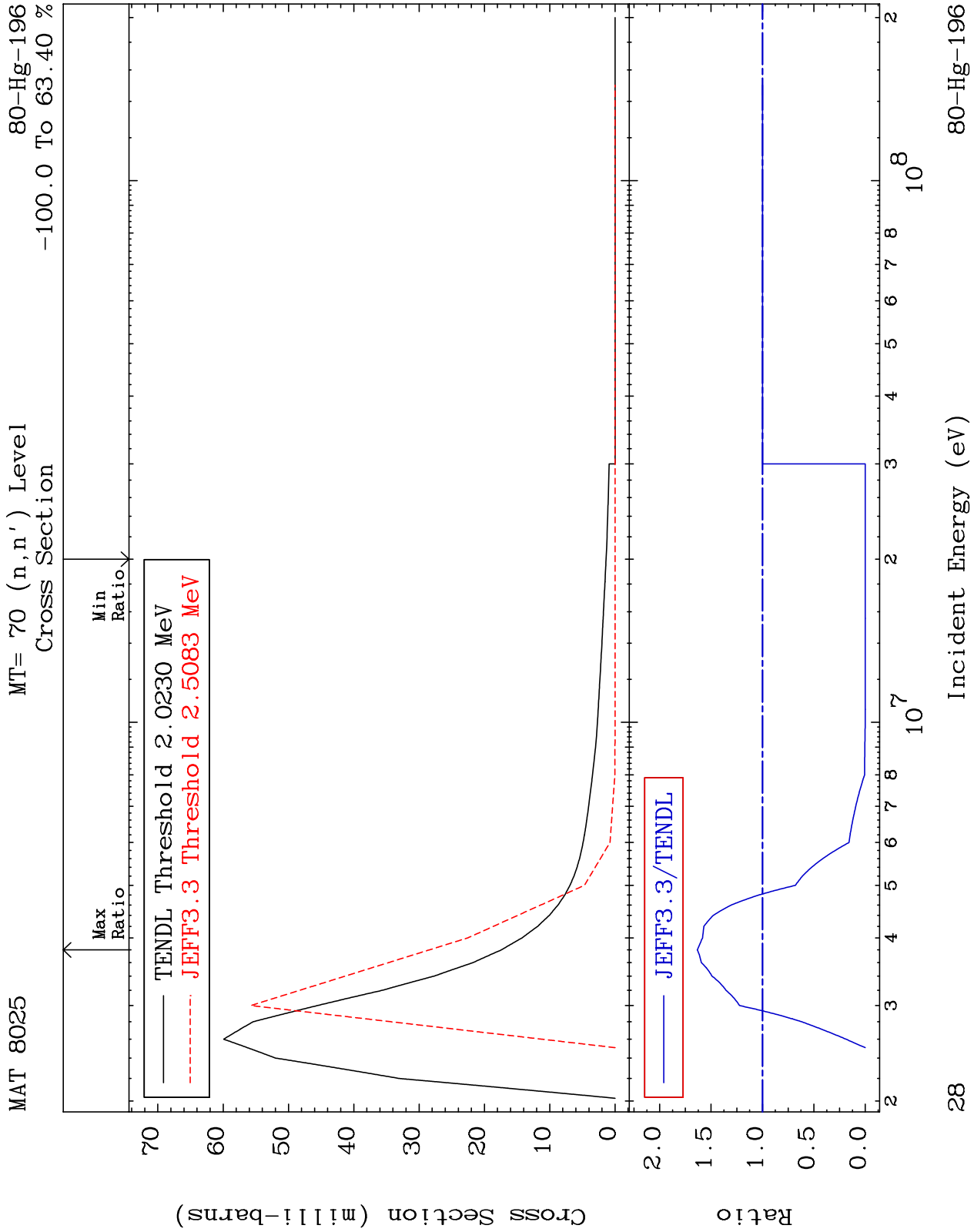
MT= 68 (n,n') Level
Cross Section

80-Hg-196
-100.0 To 0.000 %



MAT 8025 MT= 69 (n, n') Level Cross Section 80-Hg-196
 -100.0 To 42.71 %

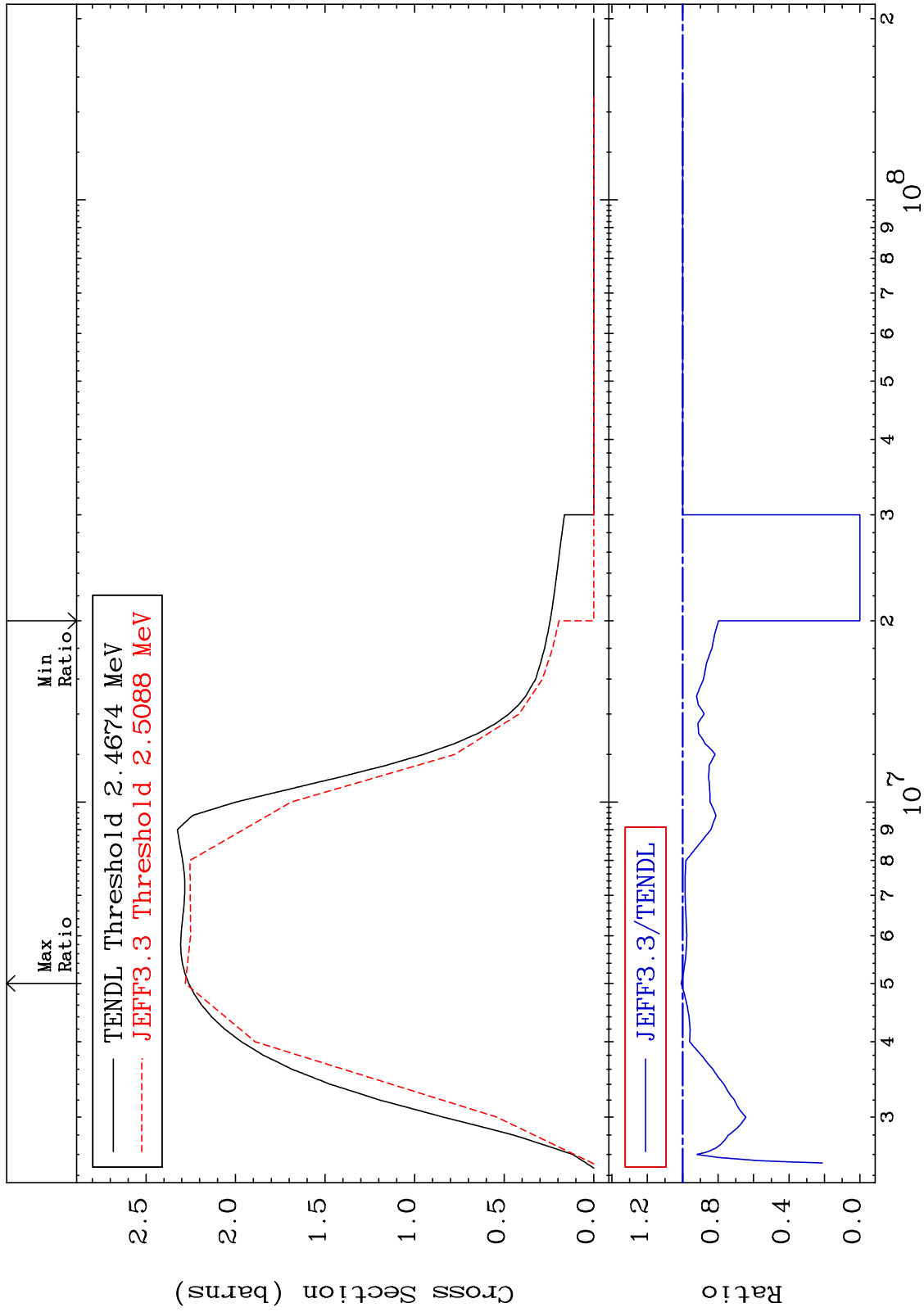




MAT 8025

(n, n') Continuum
Cross Section

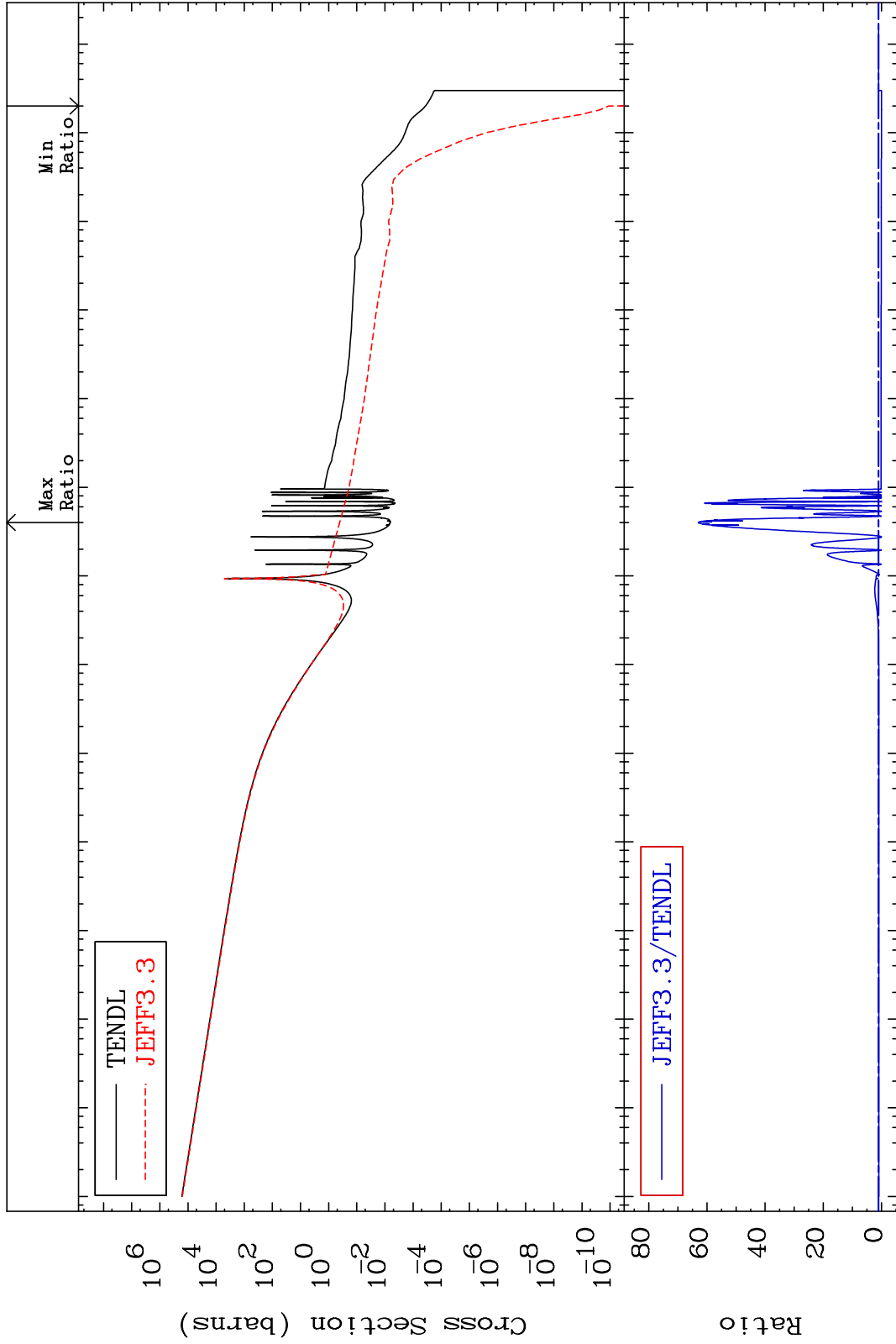
80-Hg-196
-100.0 To 0.826 %



MAT 8025

(n, γ)
Cross Section

80-Hg-196
-100.0 To 6195. %



30

Incident Energy (eV)

80-Hg-196

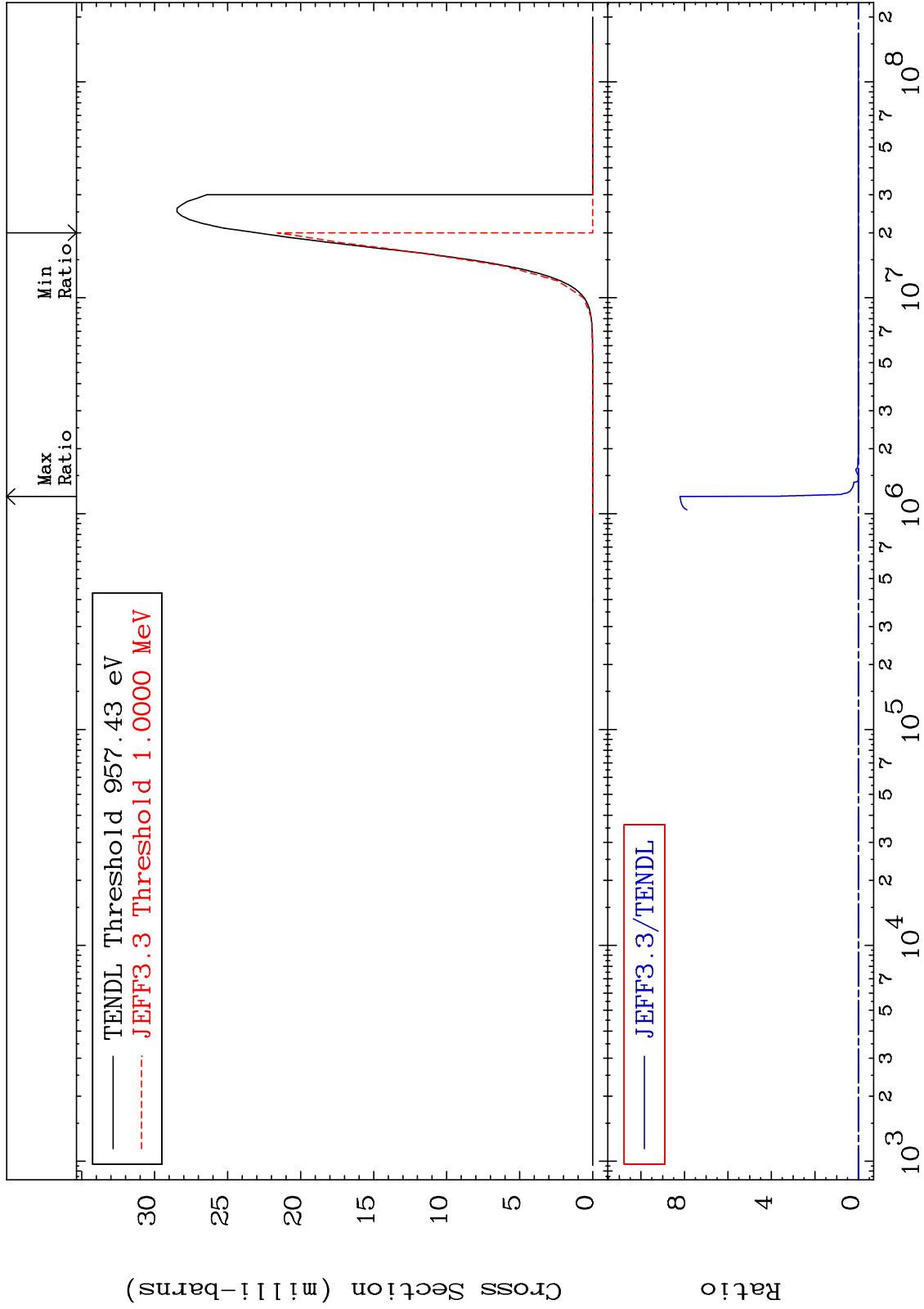
MAT 8025

(n, p)

80-Hg-196

Cross Section

-100.0 To 9999. %



31

80-Hg-196

80-Hg-196

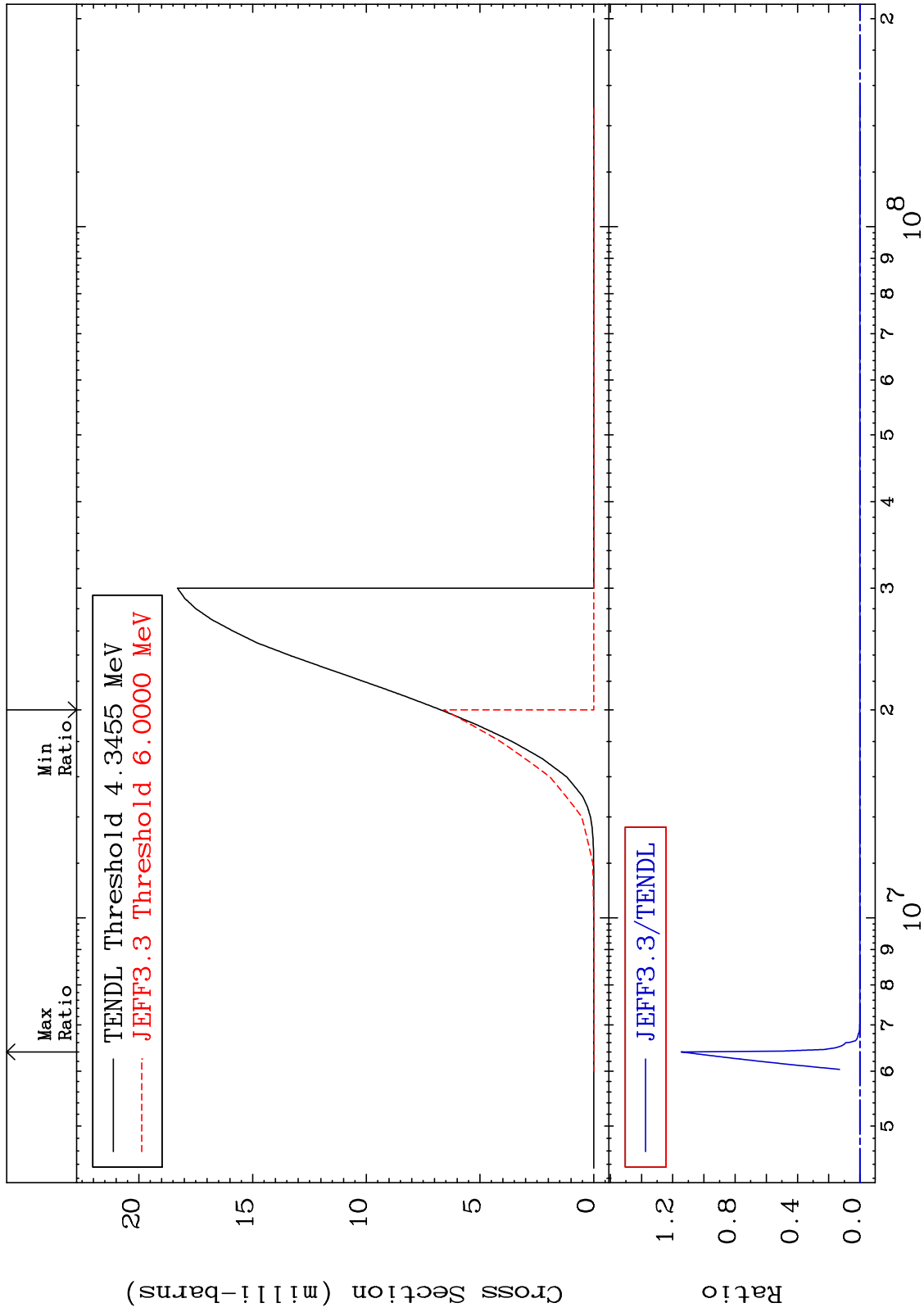
MAT 8025

(n, d)

80-Hg-196

Cross Section

-100.0 To 9999. %

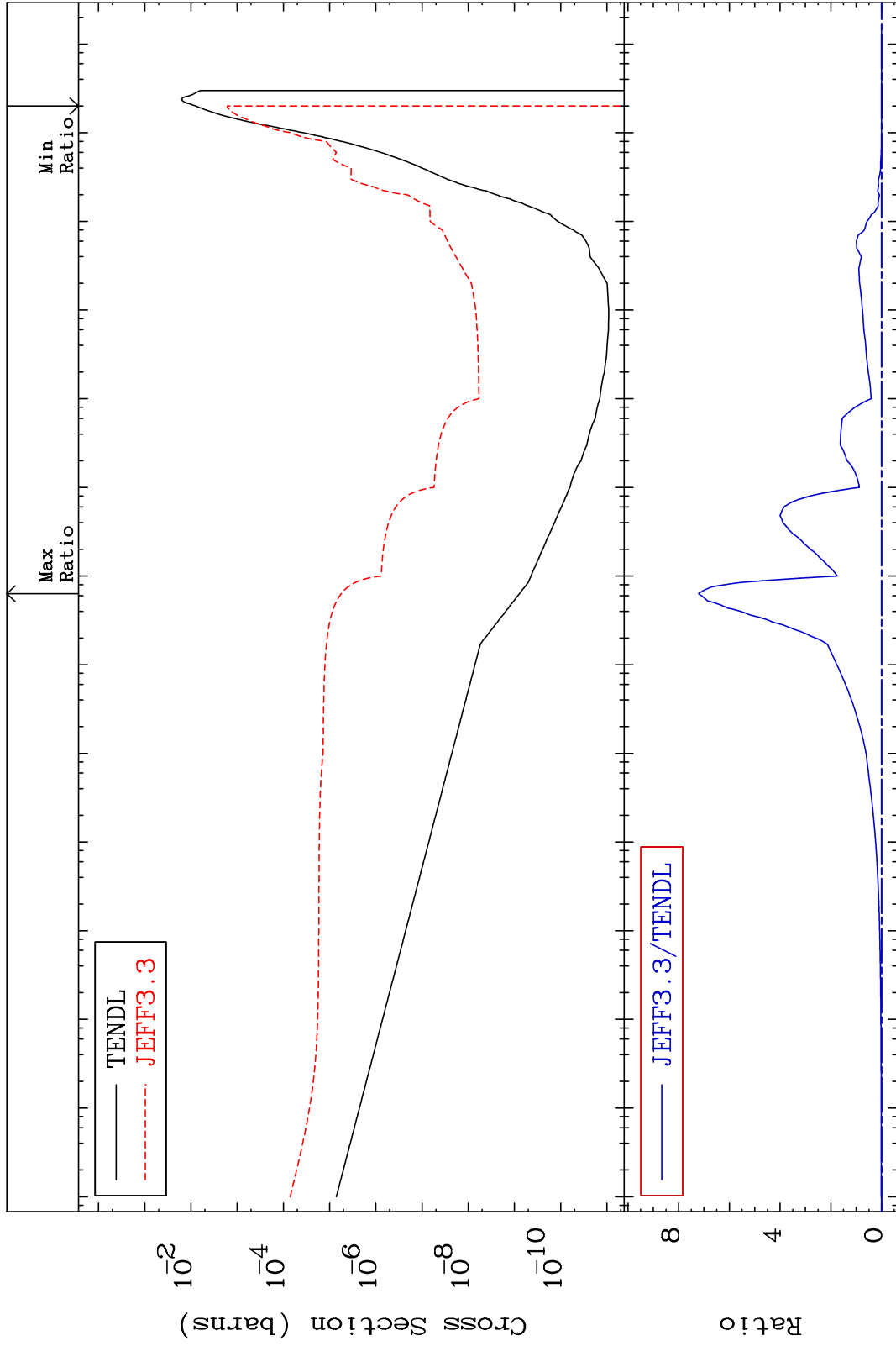


MAT 8025

80-Hg-196

-100.0 To 9999. %

(n, α)
Cross Section



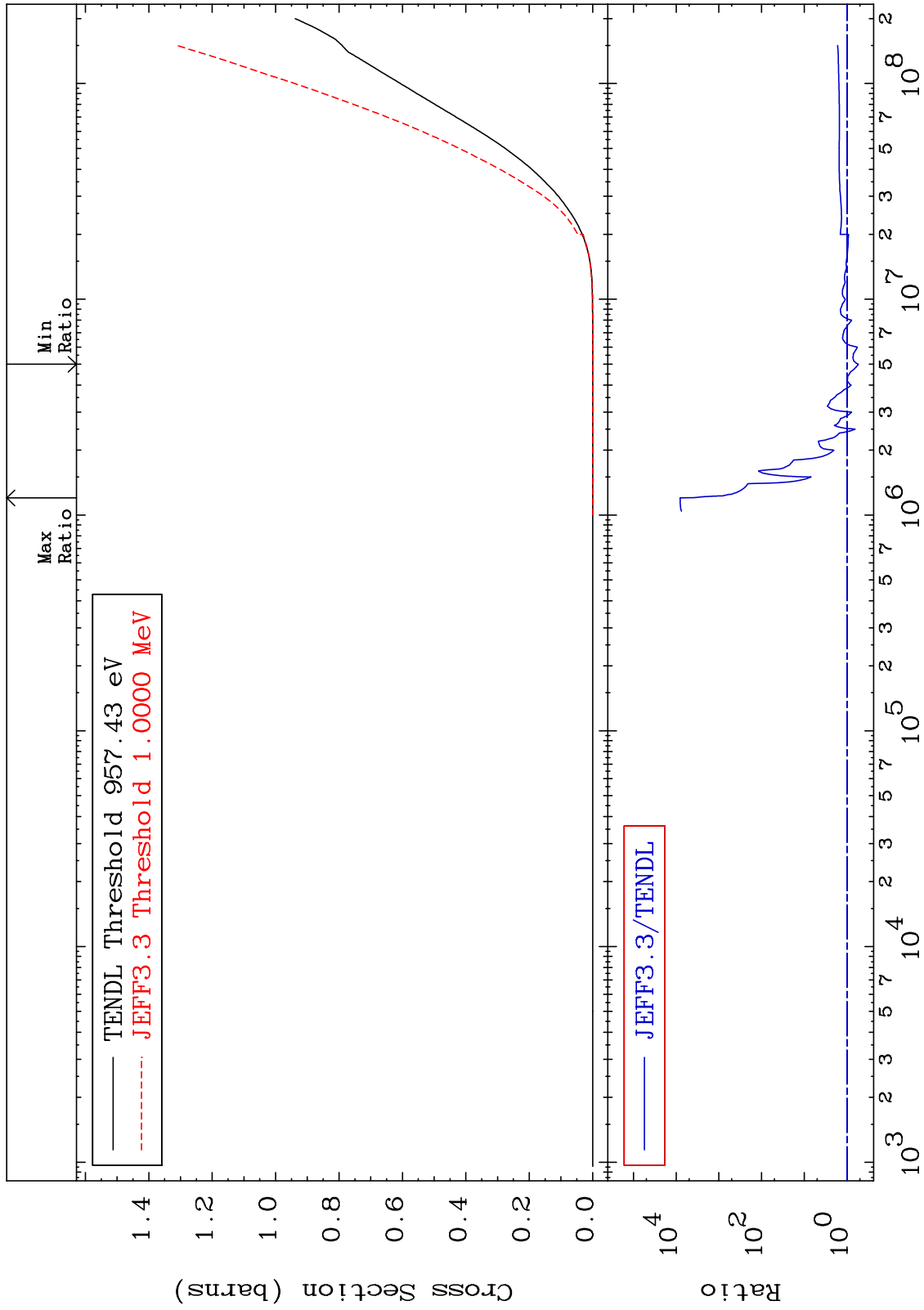
80-Hg-196

Incident Energy (eV)

MAT 8025

Hydrogen Production
Cross Section

80-Hg-196
-45.89 To 9999. %



34

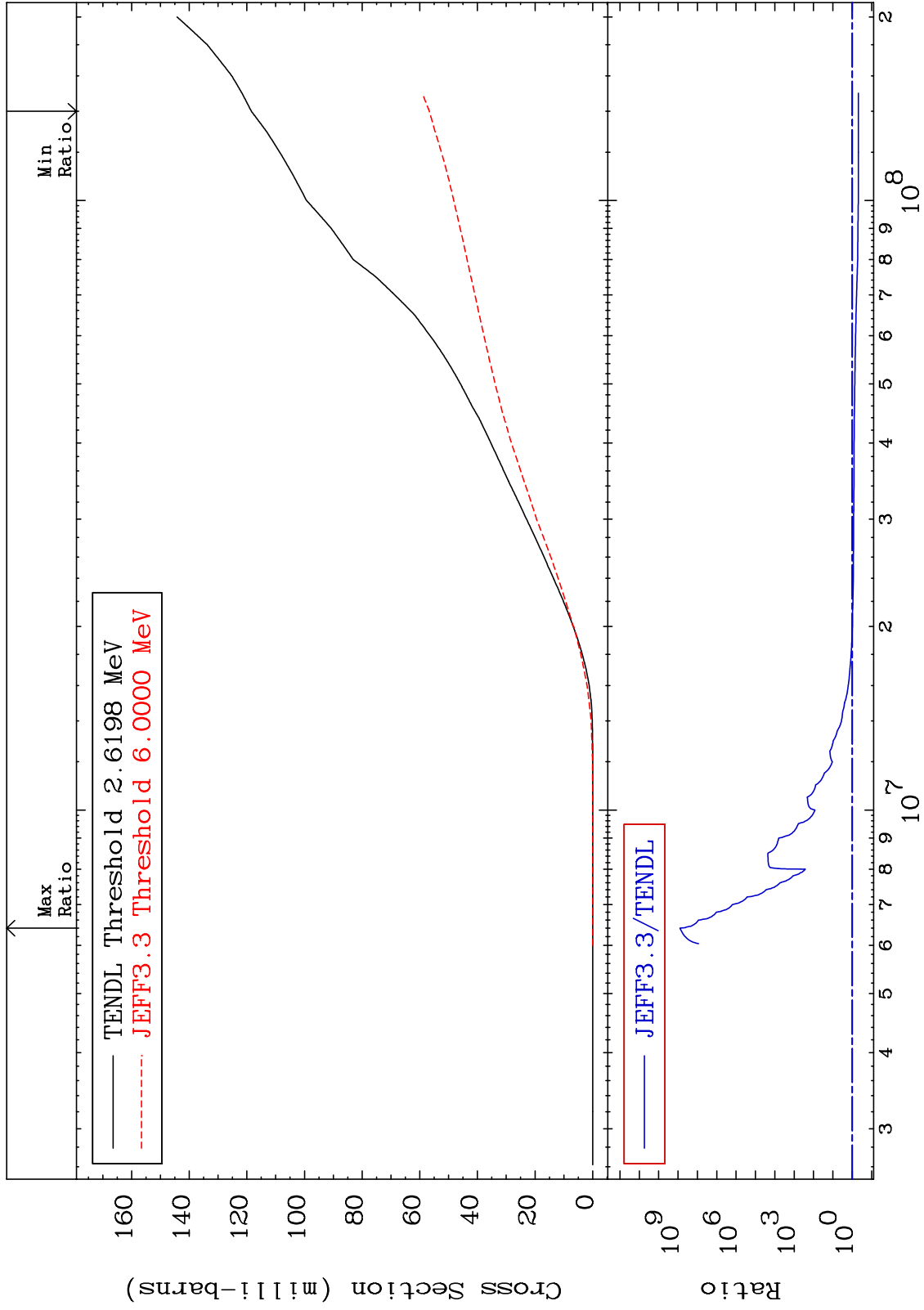
Incident Energy (eV)

80-Hg-196

MAT 8025

Deuterium Production
Cross Section

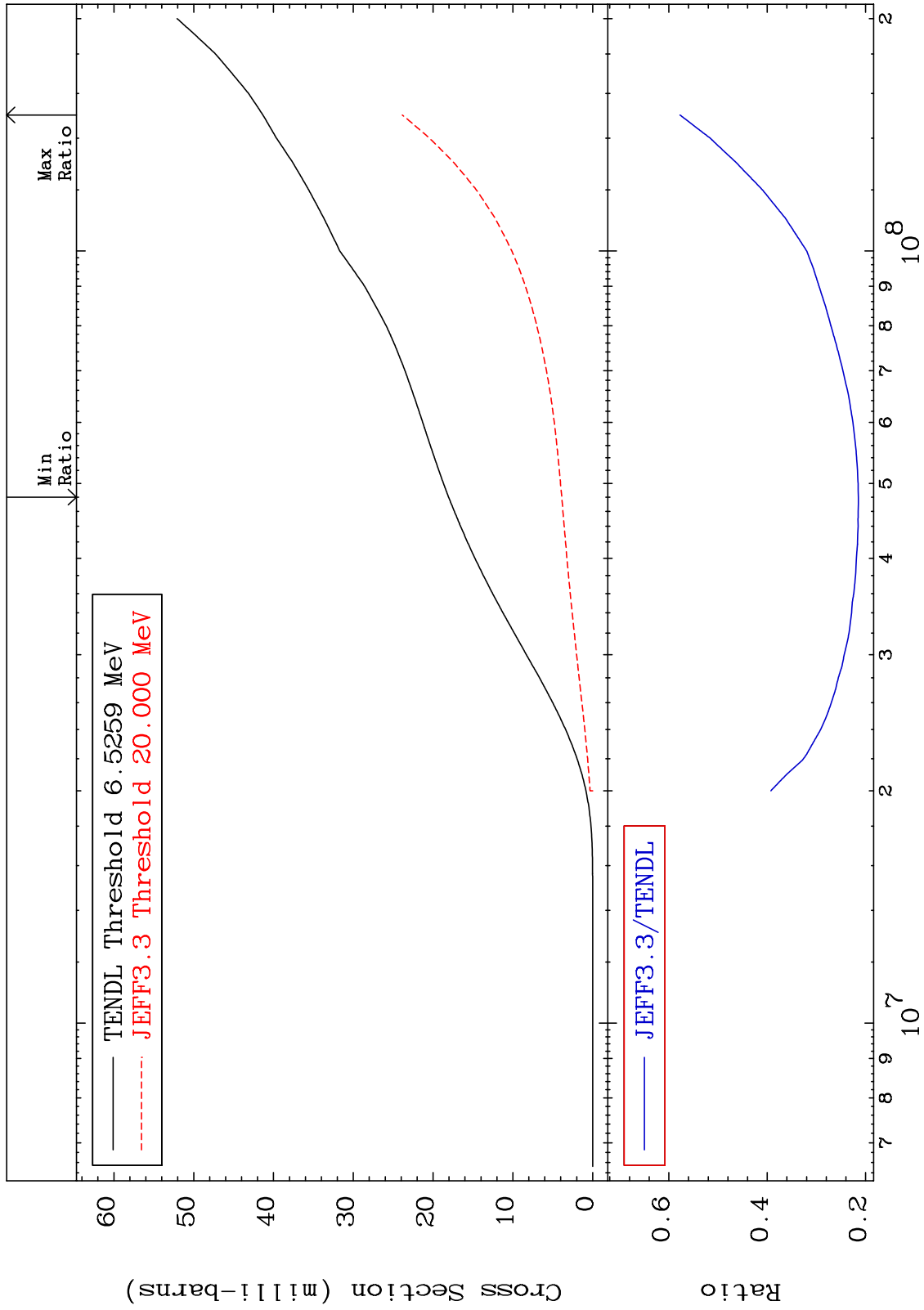
80-Hg-196
-52.14 To 9999. %



MAT 8025

Tritium Production
Cross Section

80-Hg-196
-78.53 To -42.27%



36

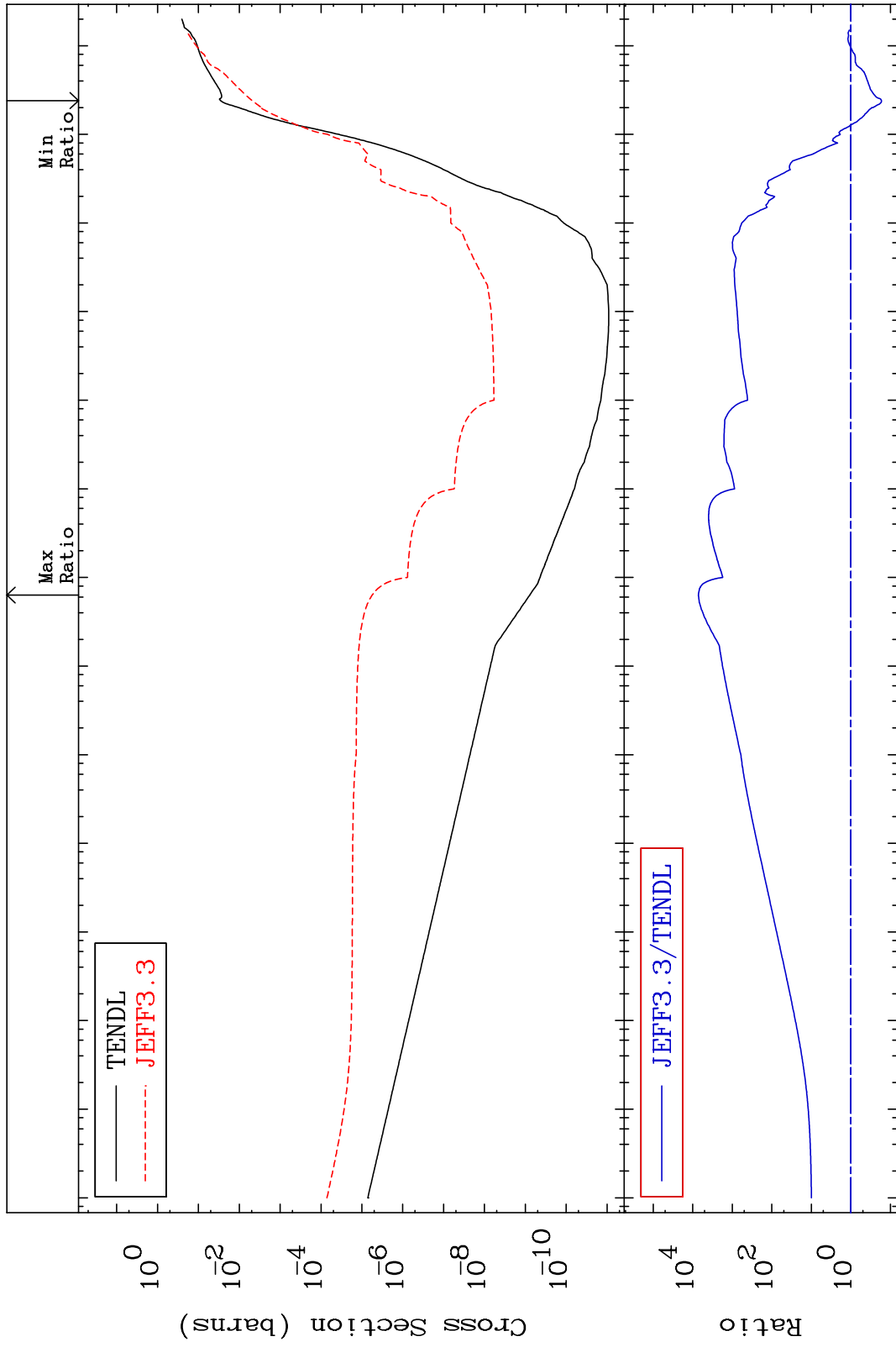
Incident Energy (eV)

80-Hg-196

MAT 8025

He-4 Production
Cross Section

80-Hg-196
-83.21 To 9999. %



37

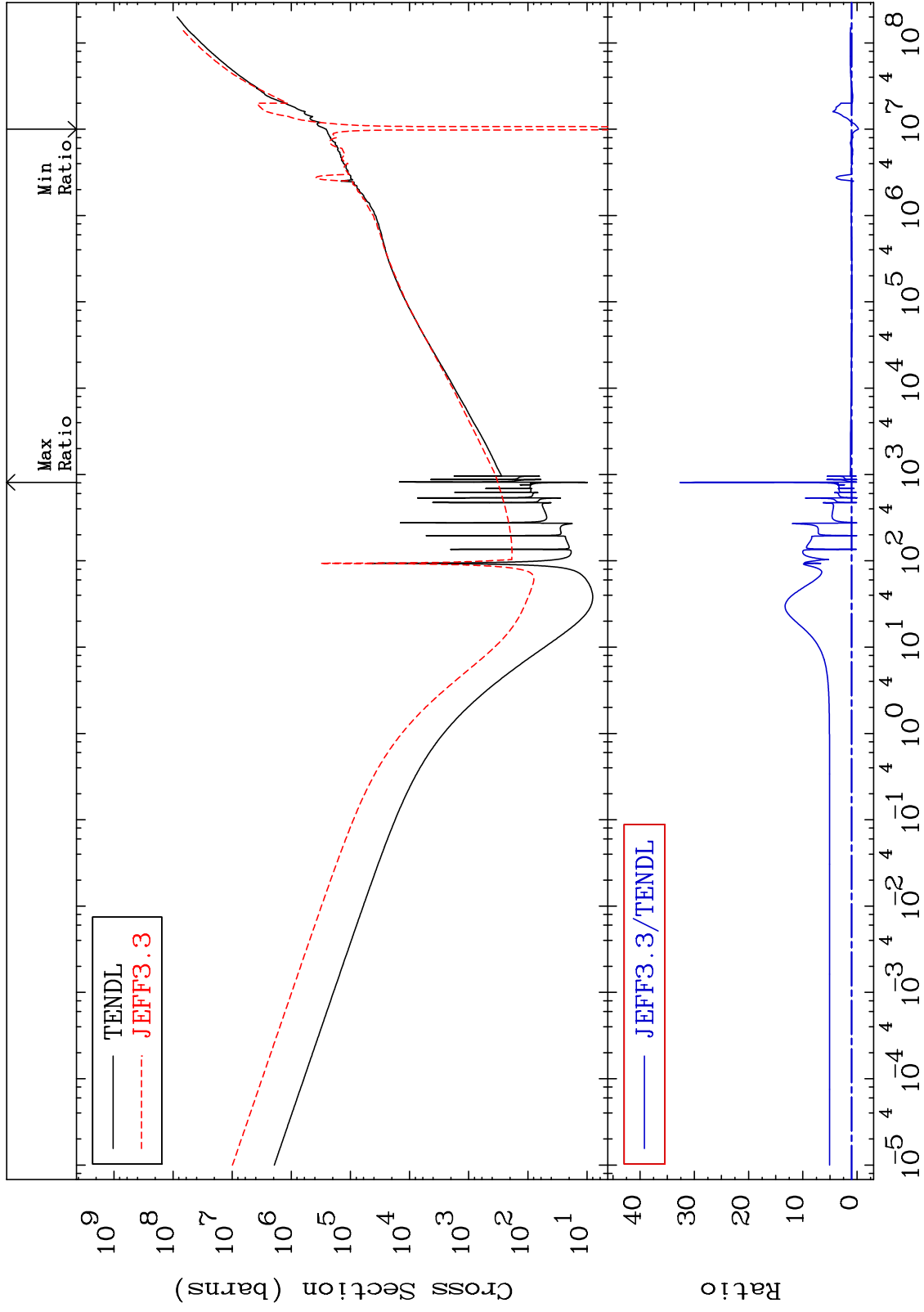
Incident Energy (eV)

80-Hg-196

MAT 8025

Kerma total (eV-barns)
Cross Section

80-Hg-196
-124.0 To 3164. %



38

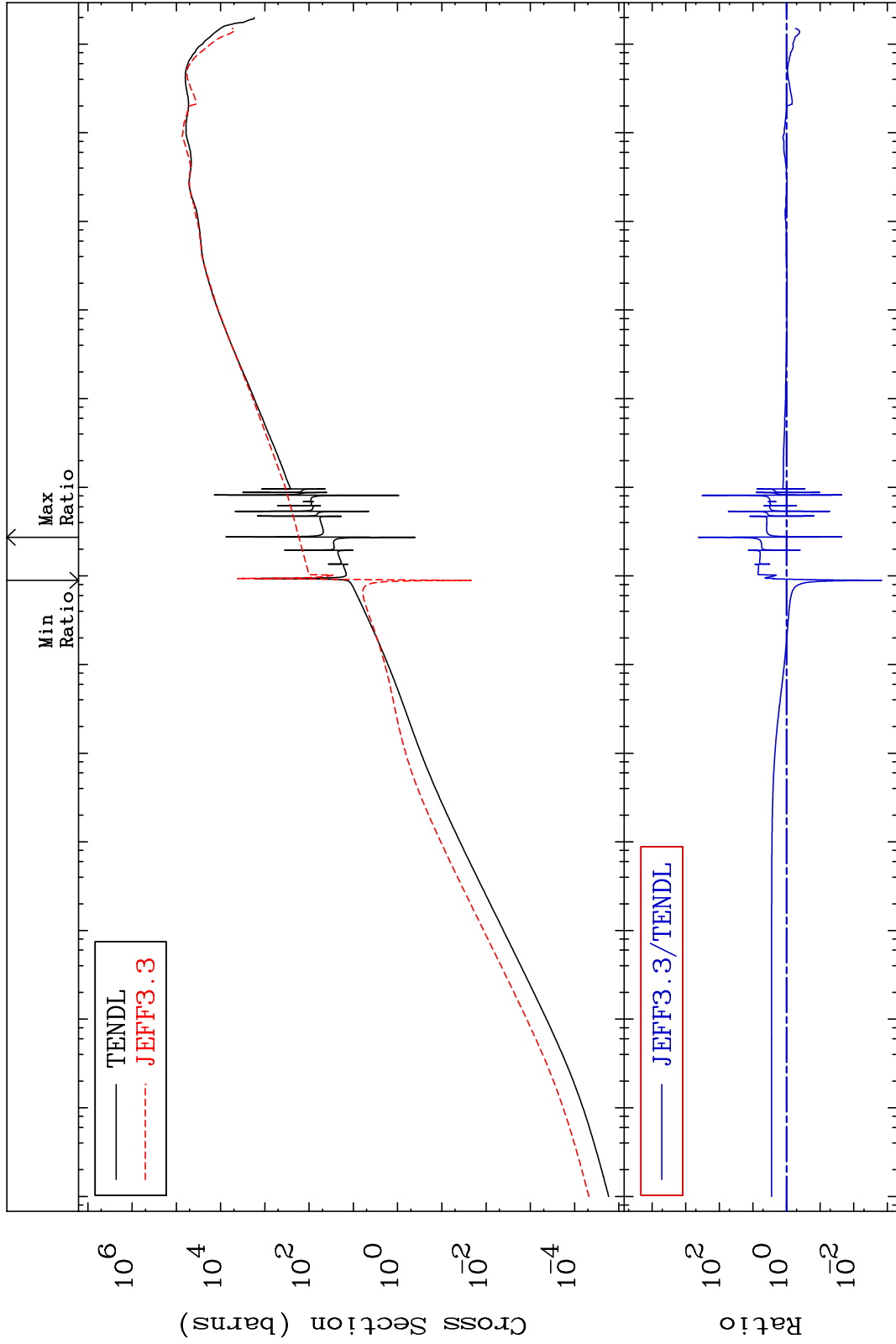
Incident Energy (eV)

80-Hg-196

MAT 8025

Kerma elastic
Cross Section

80-Hg-196
-99.85 To 9999. %

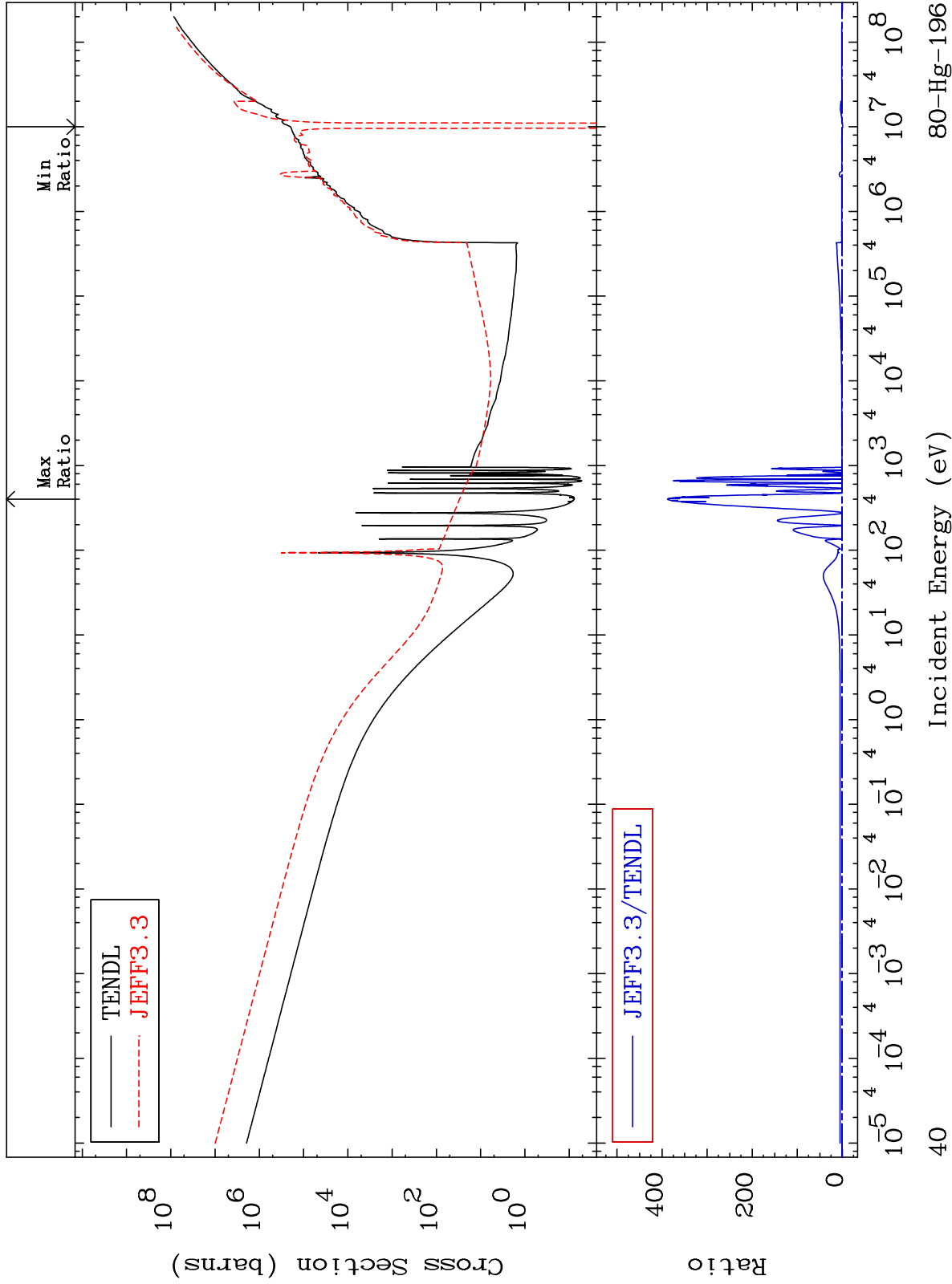


MAT 8025

Kerma non-elastic (all but mt2)
Cross Section

80-Hg-196

-167.3 To 9999. %



40

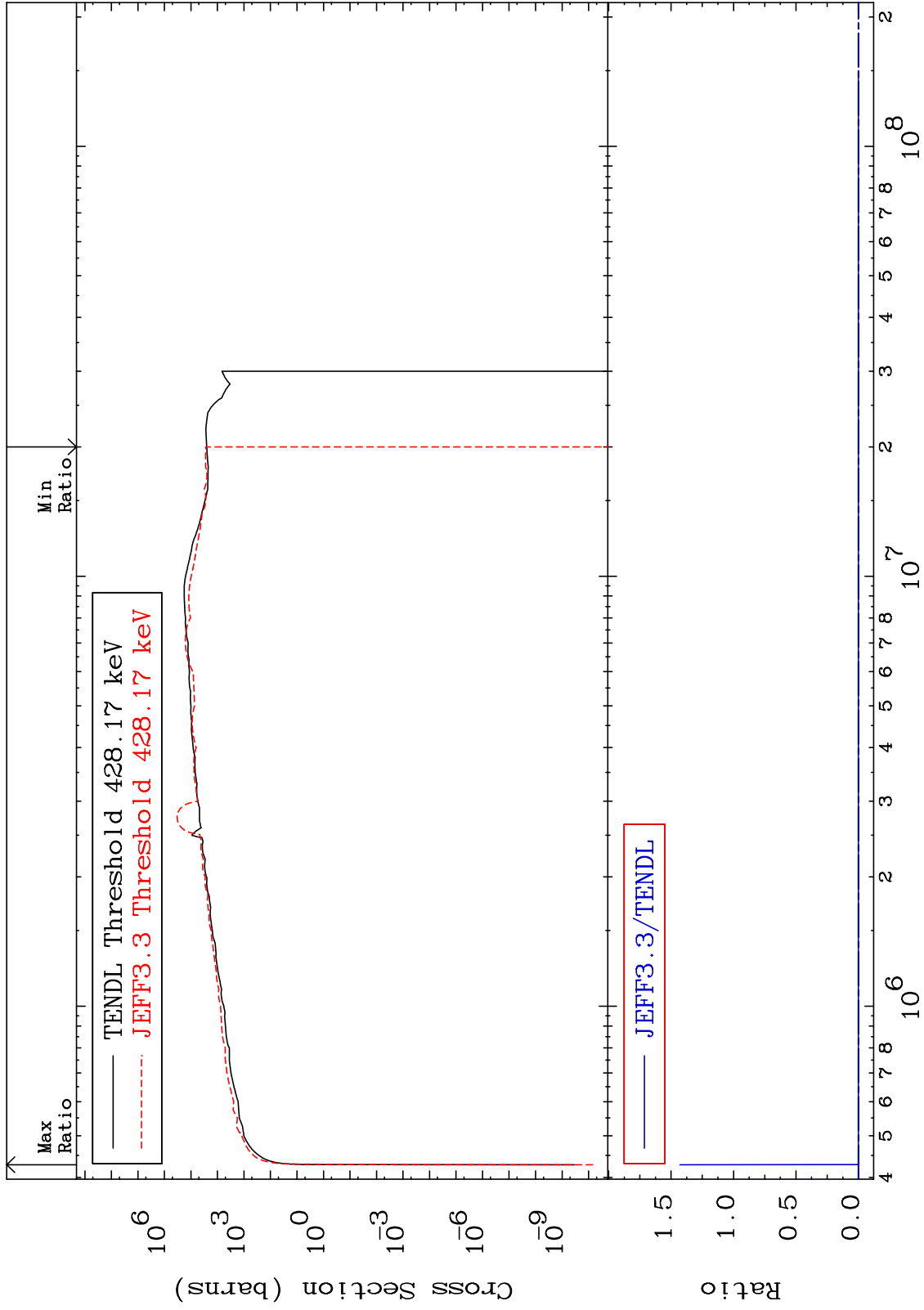
Incident Energy (eV)

80-Hg-196

MAT 8025

Kerma inelastic (mt51-91)
Cross Section

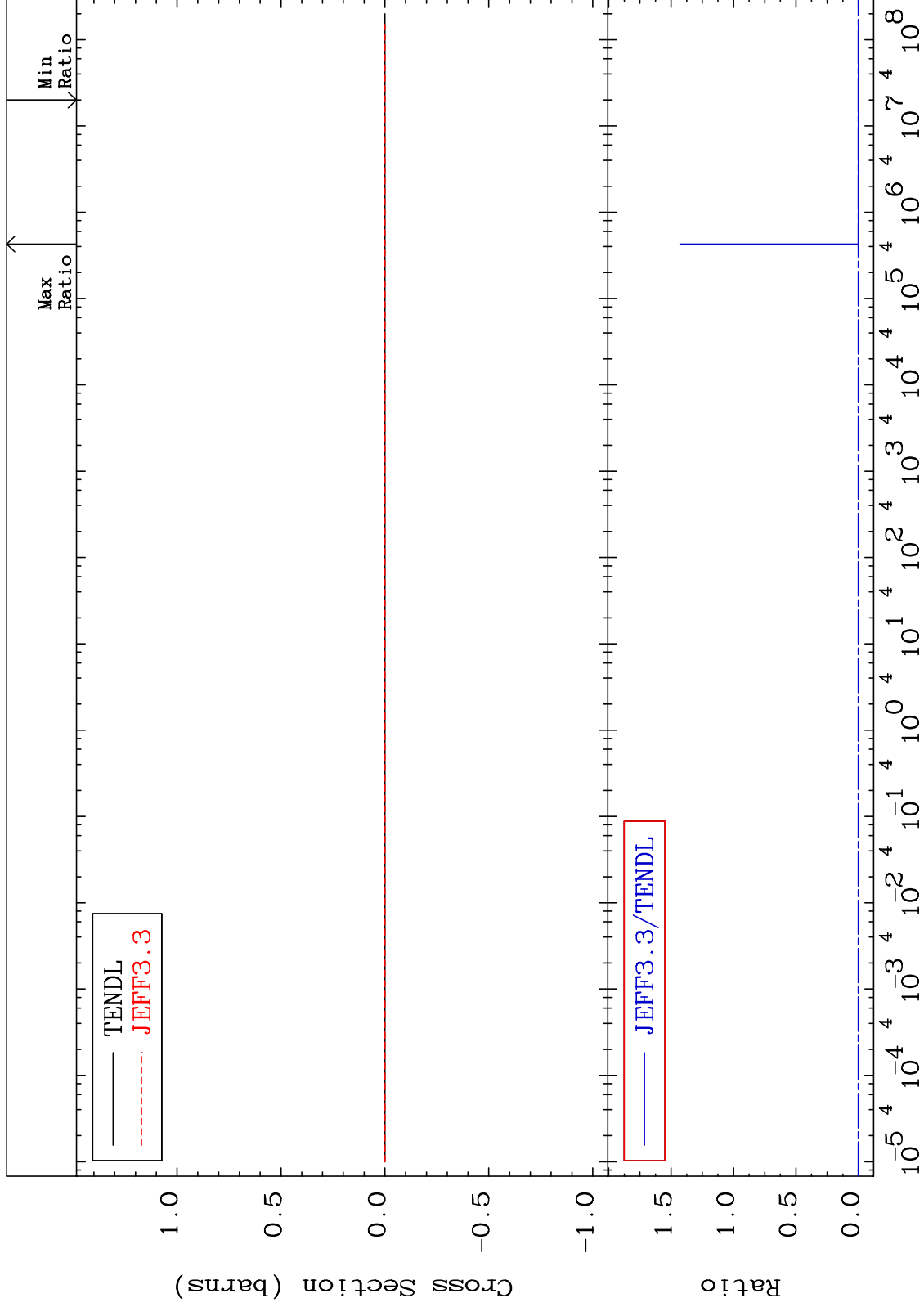
80-Hg-196
-100.0 To 9999. %



MAT 8025

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

80-Hg-196
-100.0 To 9999. %



42

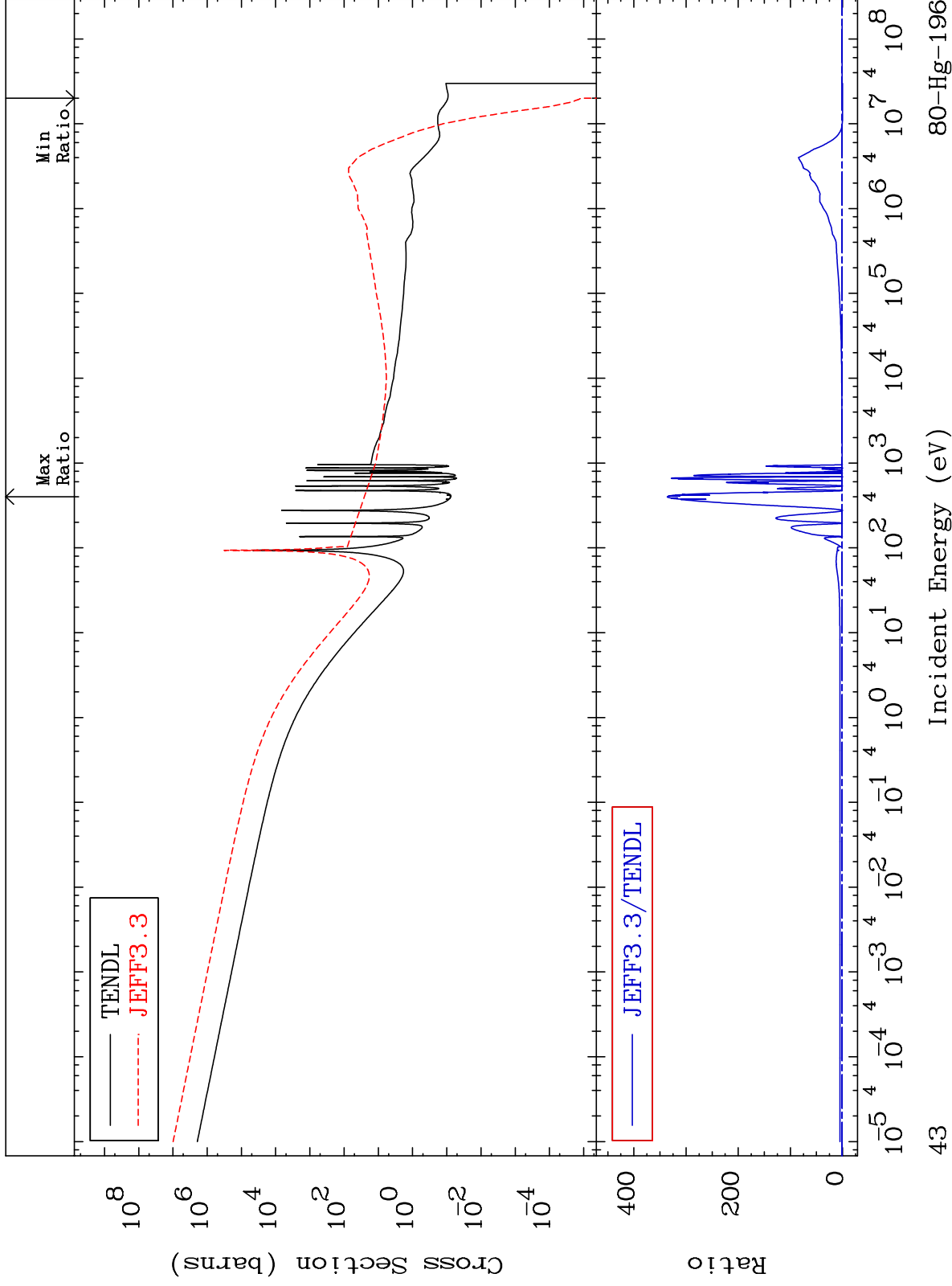
Incident Energy (eV)

80-Hg-196

MAT 8025

Kerma capture (mt102)
Cross Section

80-Hg-196
-100.0 To 9999. %



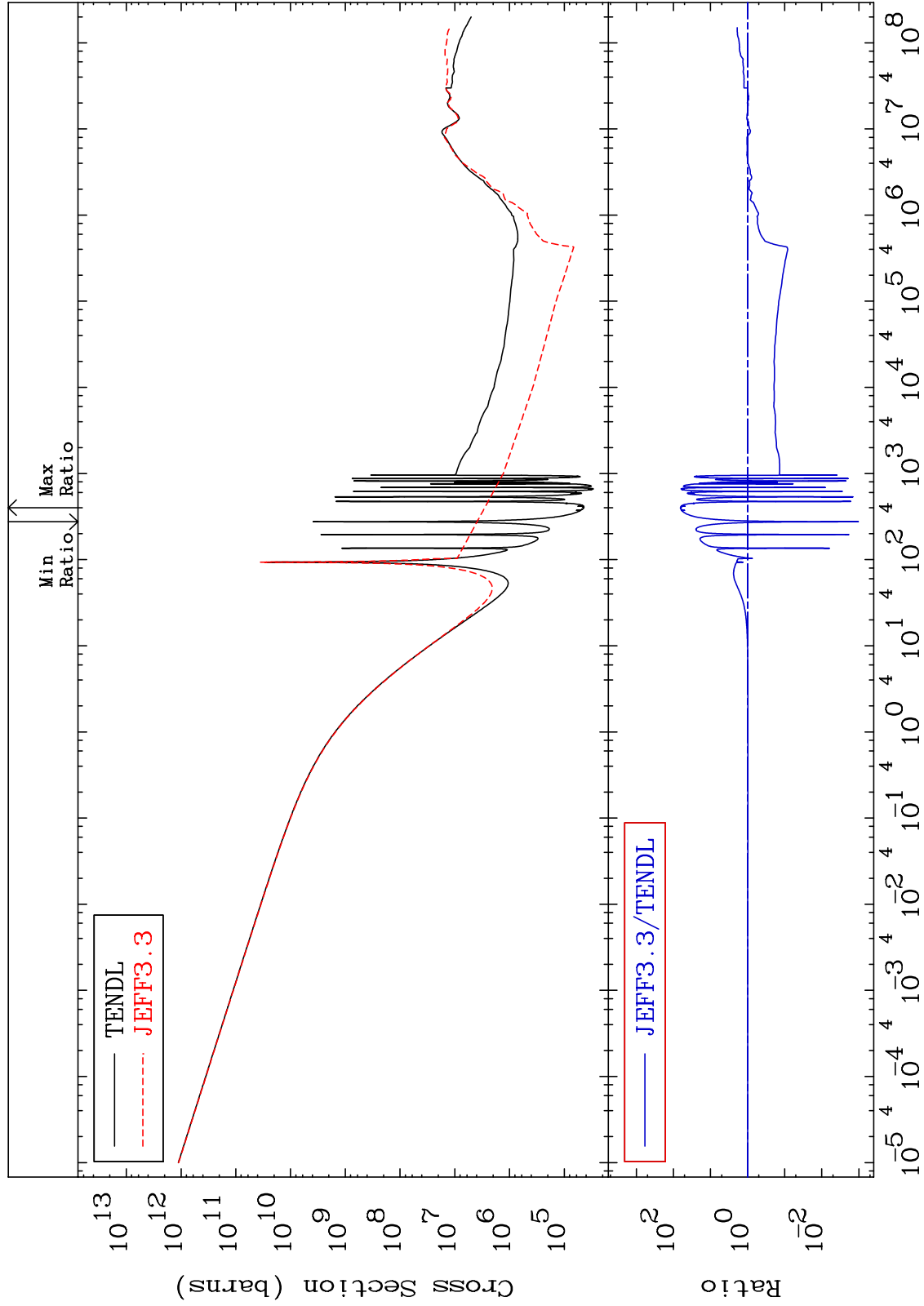
43

80-Hg-196

MAT 8025

Total photon (eV-barns)
Cross Section

80-Hg-196
-99.90 To 6376. %



44

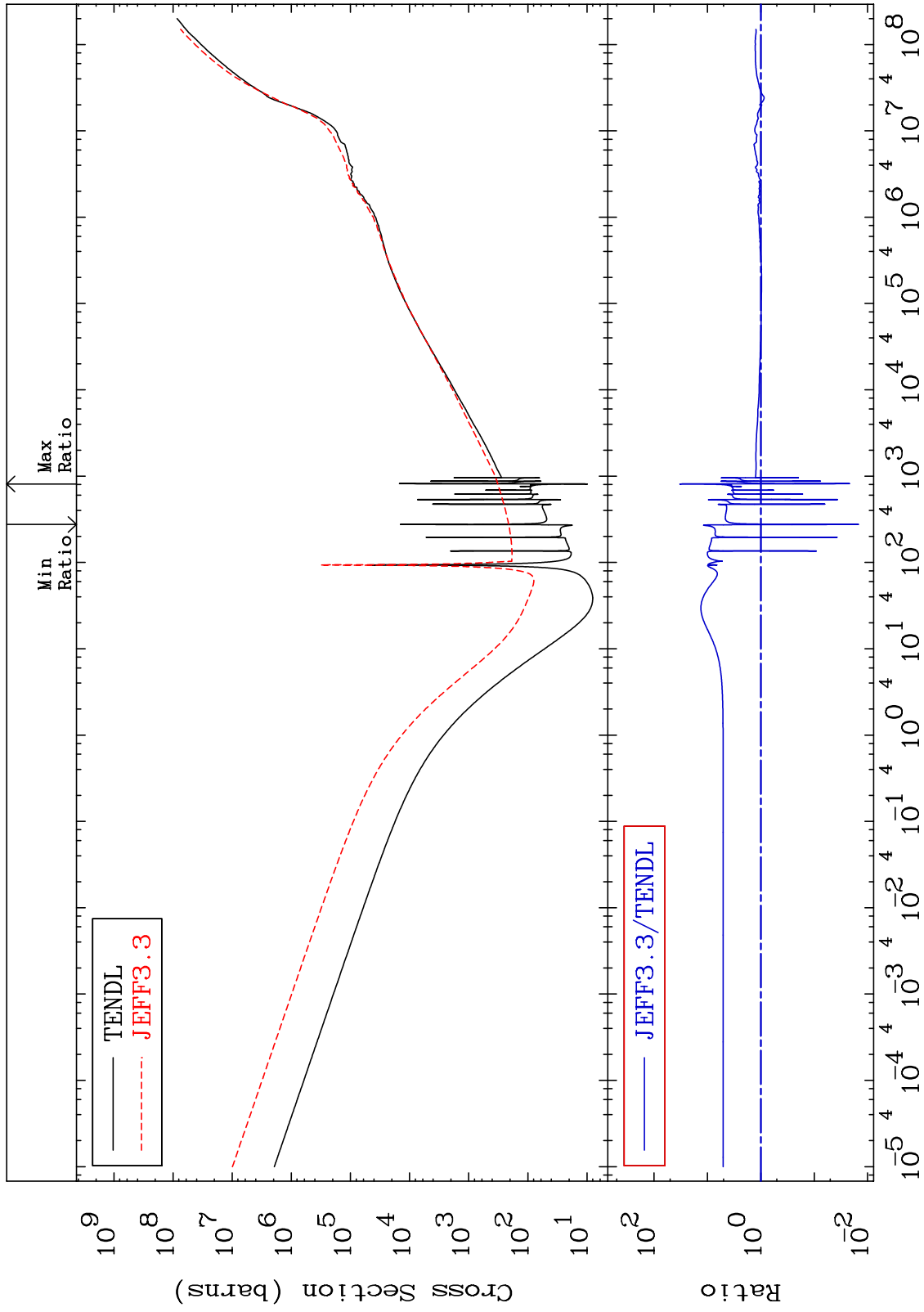
Incident Energy (eV)

80-Hg-196

MAT 8025

Total kinematic kerma (high limit)
Cross Section

80-Hg-196
-98.51 To 3164. %



45

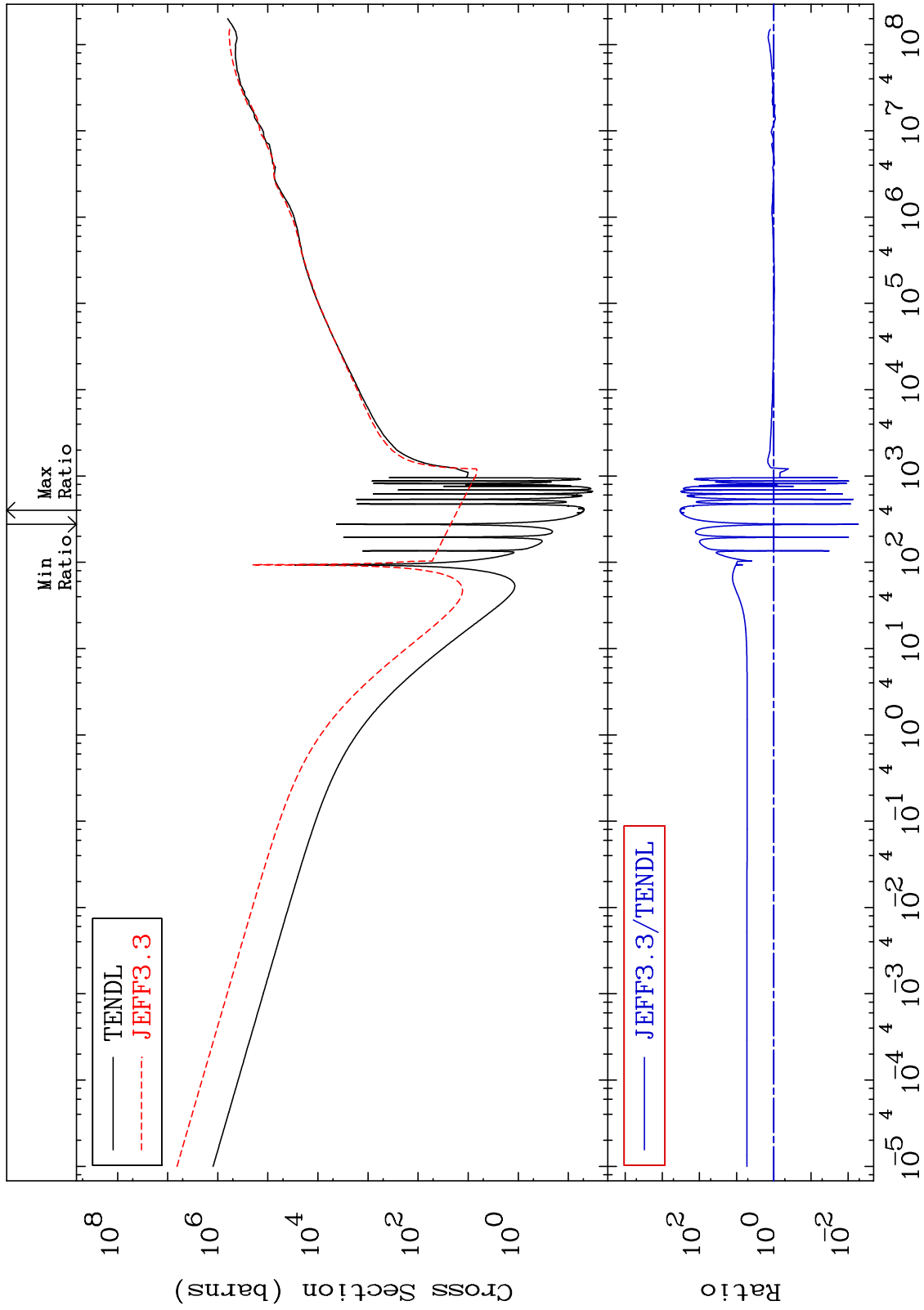
Incident Energy (eV)

80-Hg-196

MAT 8025

Dpa total (eV-barns)
Cross Section

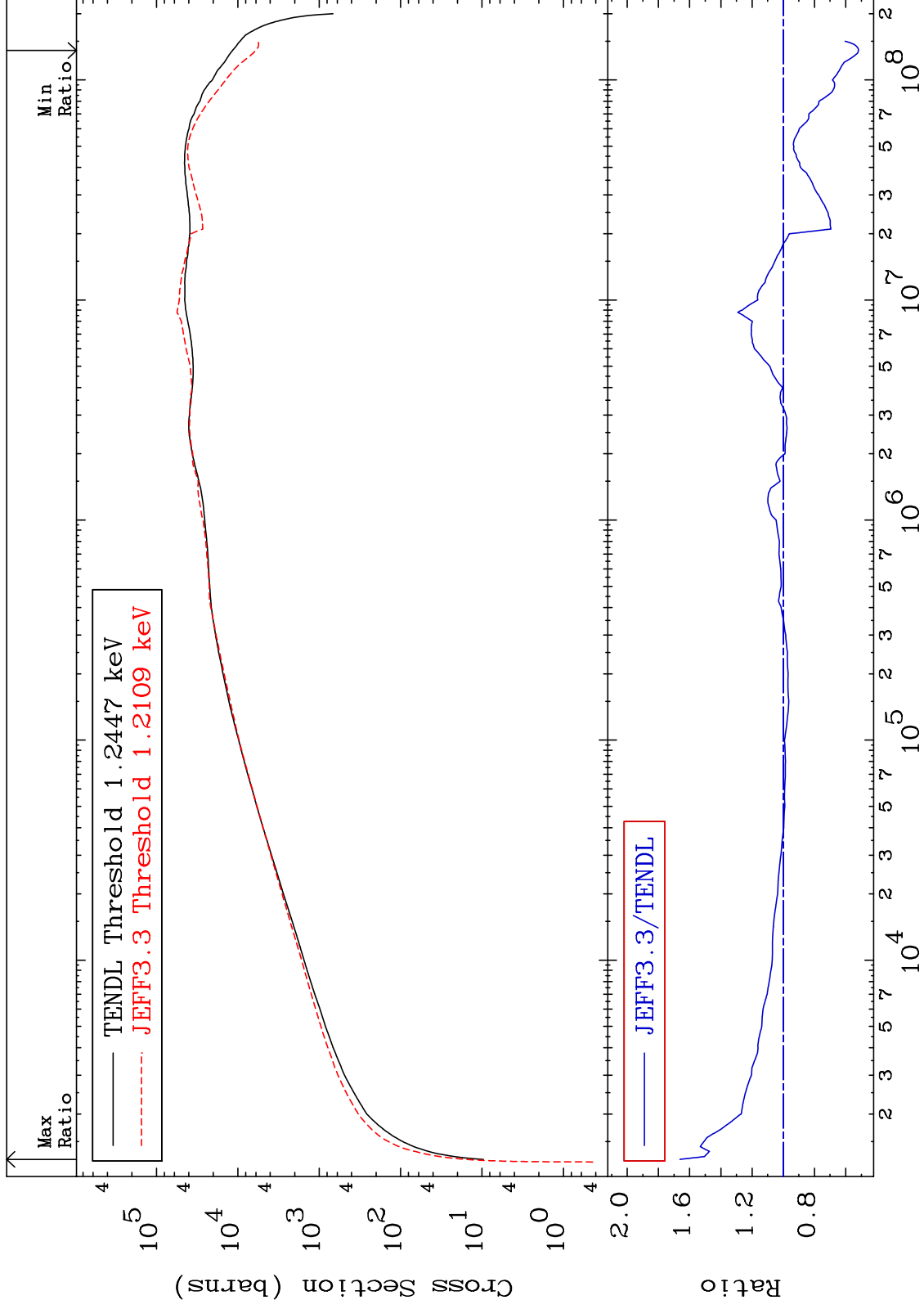
80-Hg-196
-99.47 To 9999. %



MAT 8025

Dpa elastic (mt2)
Cross Section

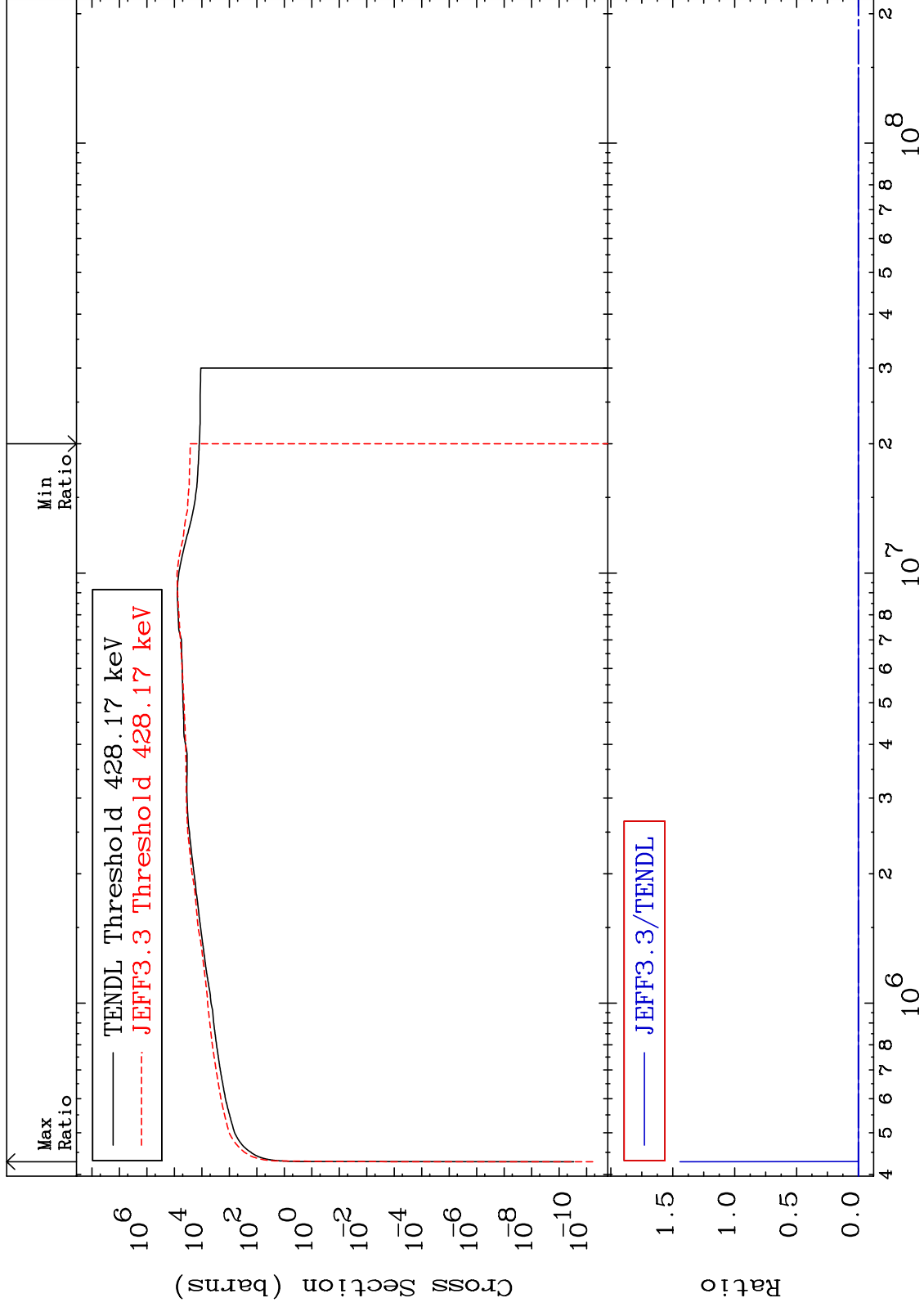
80-Hg-196
-48.13 To 66.17 %



MAT 8025

Dpa inelastic (mt51-91)
Cross Section

80-Hg-196
-100.0 To 9999. %



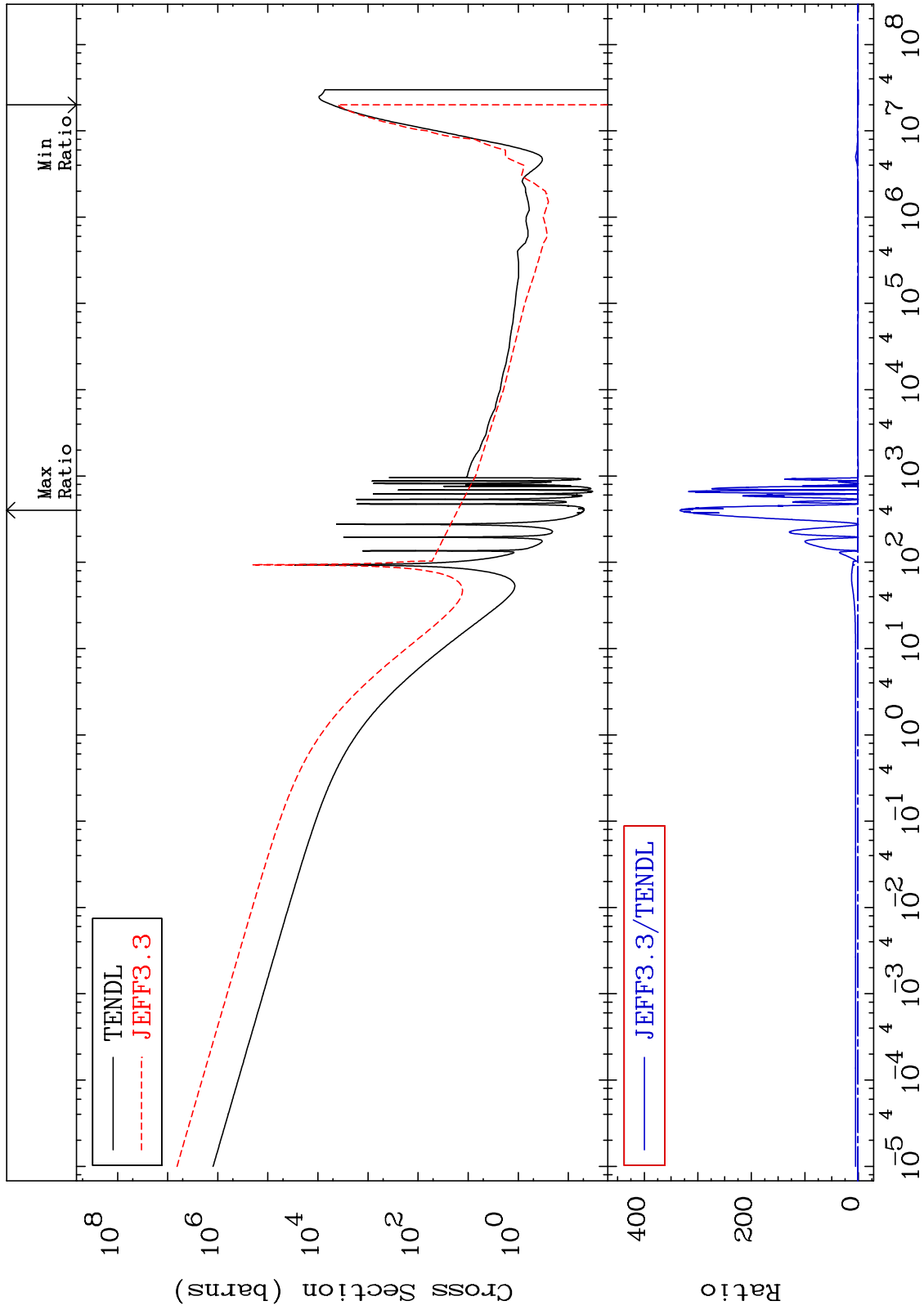
48

80-Hg-196

MAT 8025

Dpa disappearance (mt102 -120)
Cross Section

80-Hg-196
-100.0 To 9999. %



49

Incident Energy (eV)

80-Hg-196