

Program Complot
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

U.S.A.

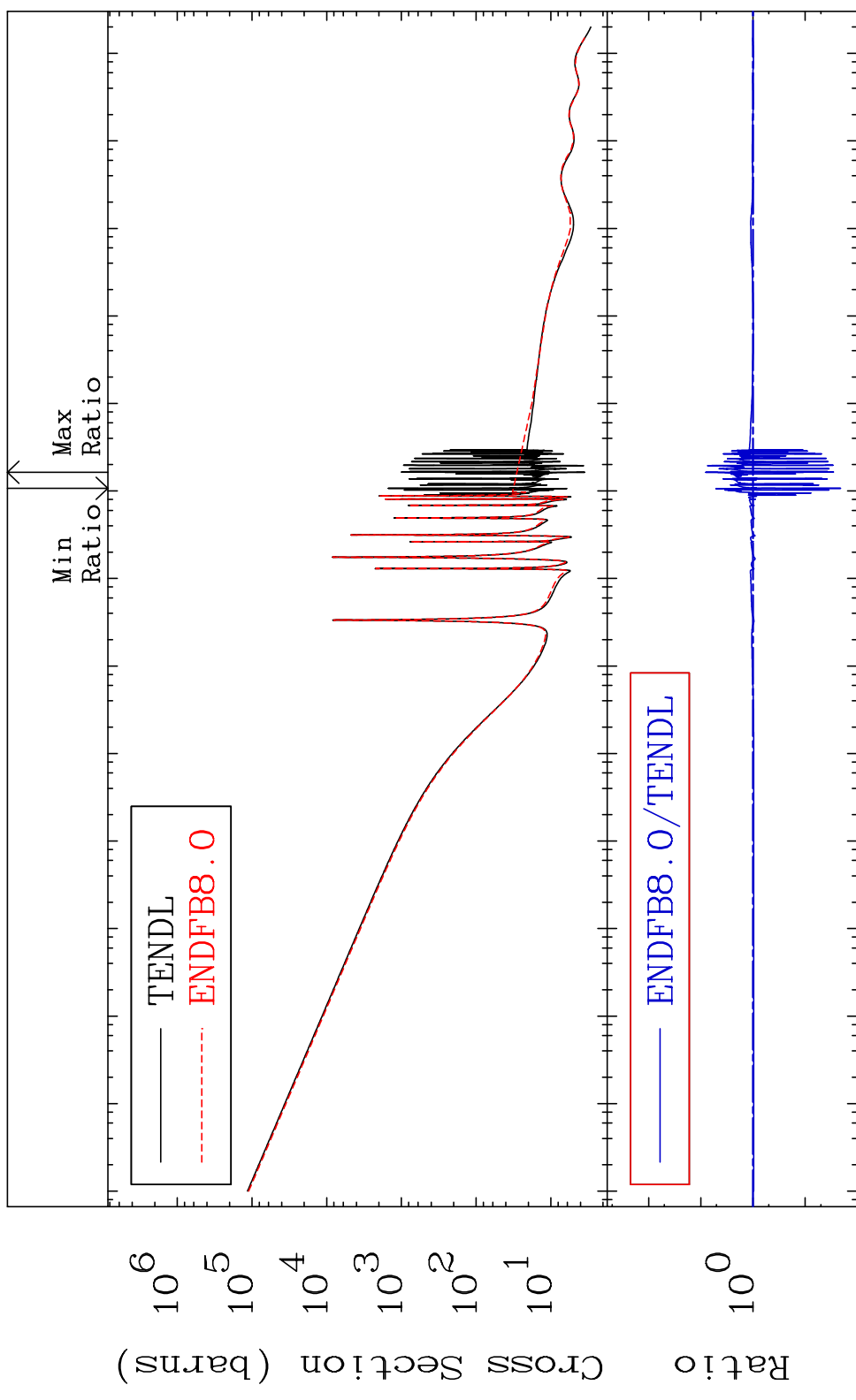
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 8034

Total Cross Section -97.90 To 703.8 %
80-Hg-199



10⁶
10⁵
10⁴
10³
10²
10¹
10⁰
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

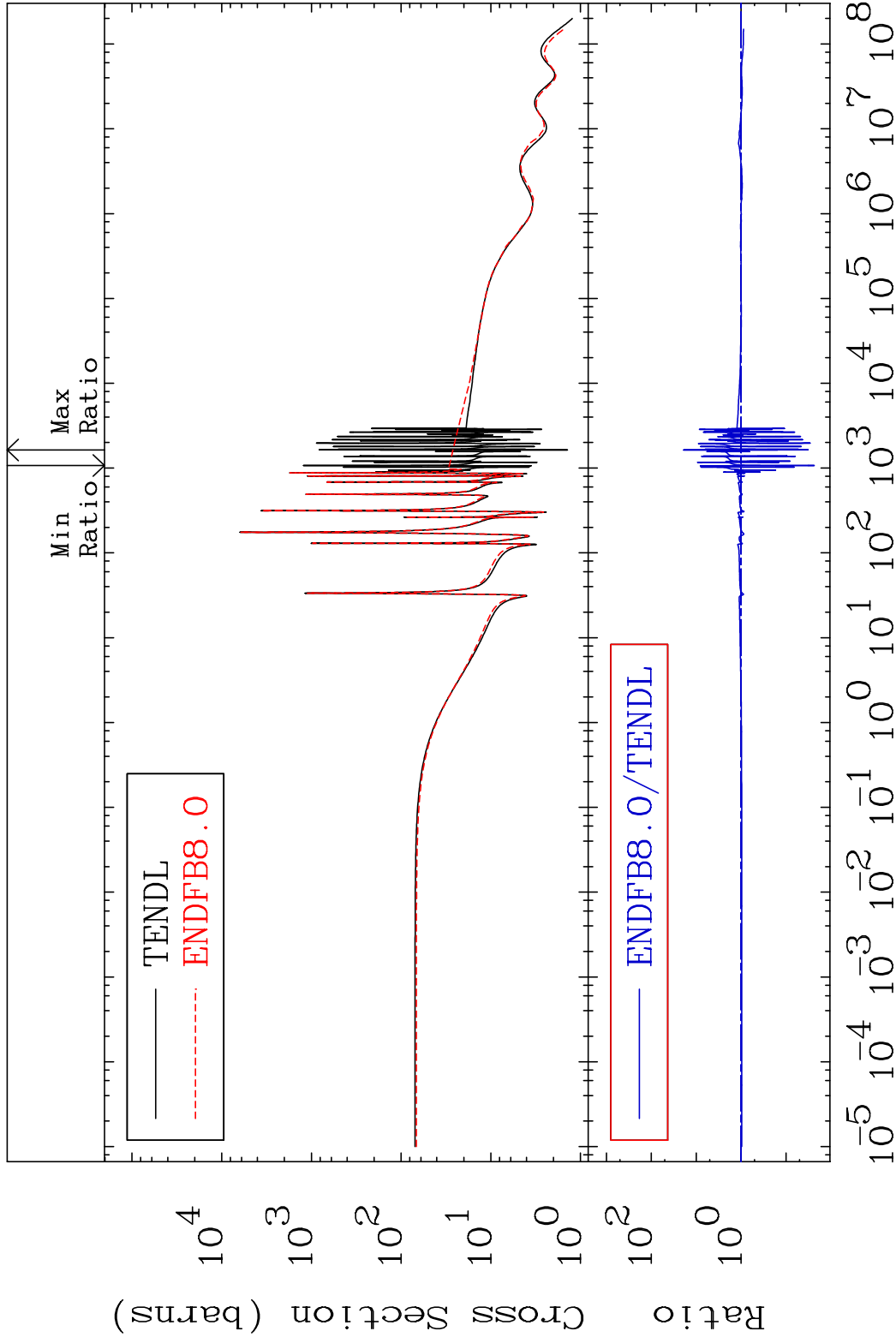
Incident Energy (eV) 80-Hg-199

MAT 8034

Elastic

80-Hg-199

Cross Section -97.64 To 1798. %

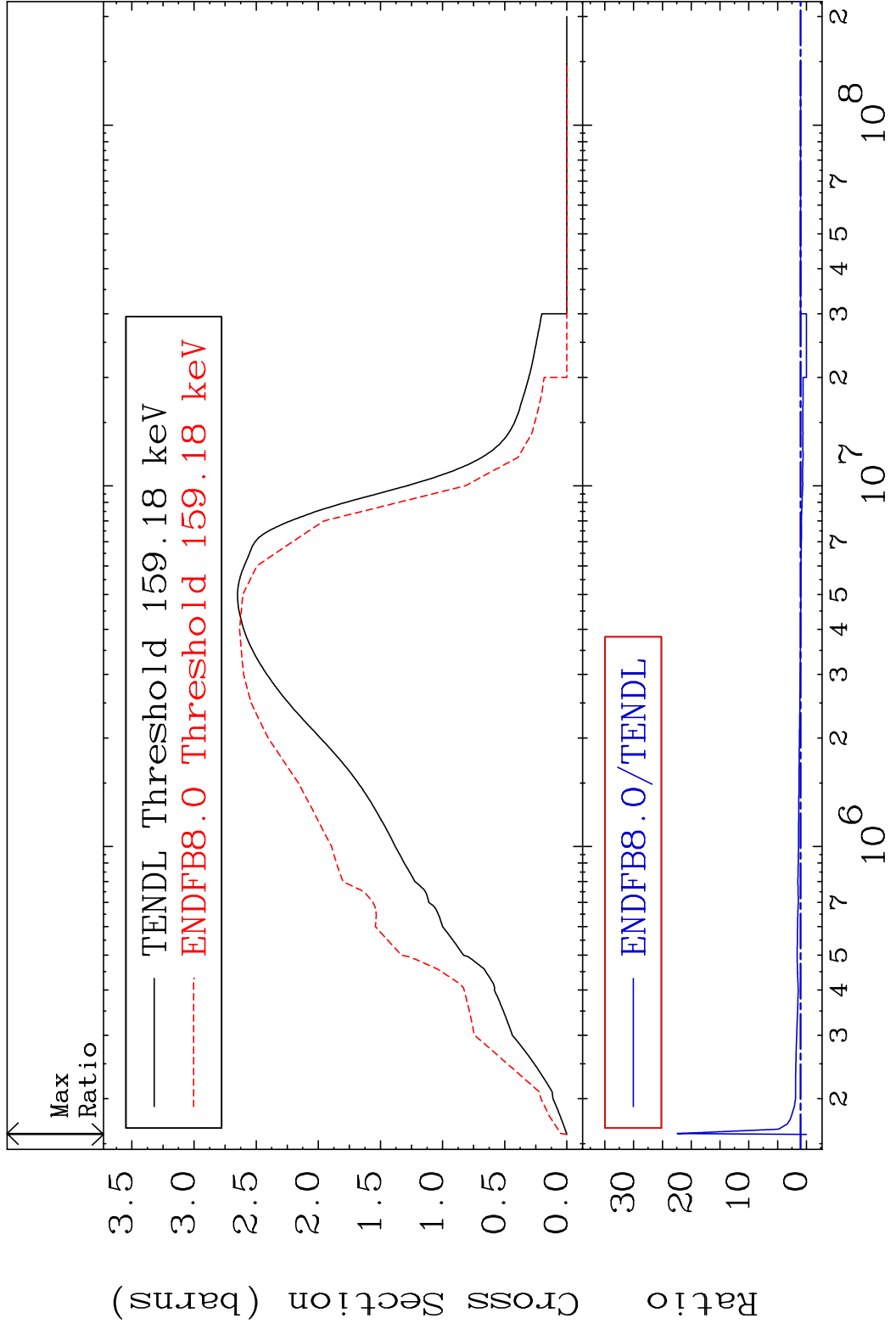


2

Incident Energy (eV)

80-Hg-199

MAT 8034 Inelastic 80-Hg-199
 Cross Section -100.0 To 2143. %



MAT 8034

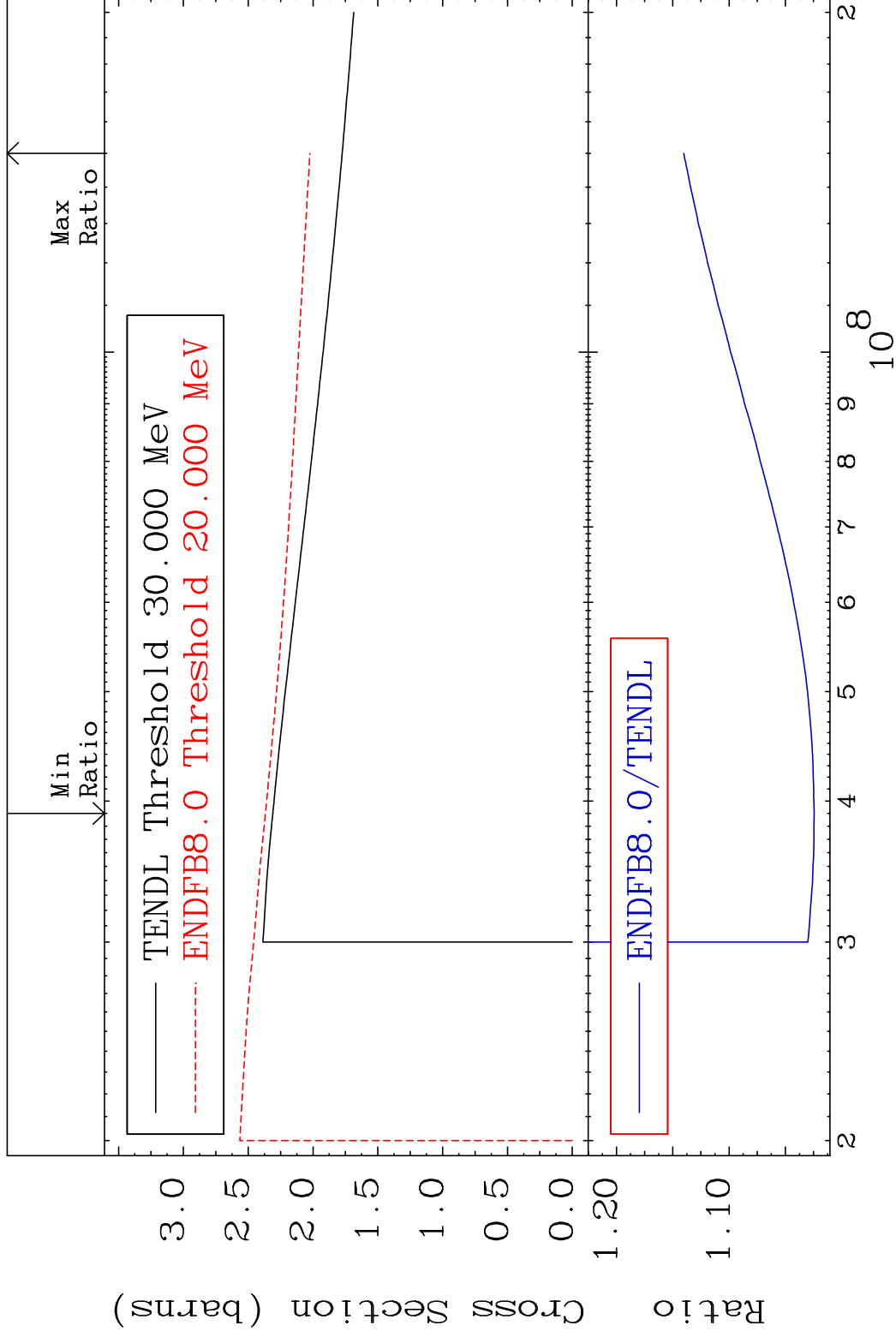
(n, remainder)

80-Hg-199

Cross Section

2.449

To 14.03 %



4

Incident Energy (eV)

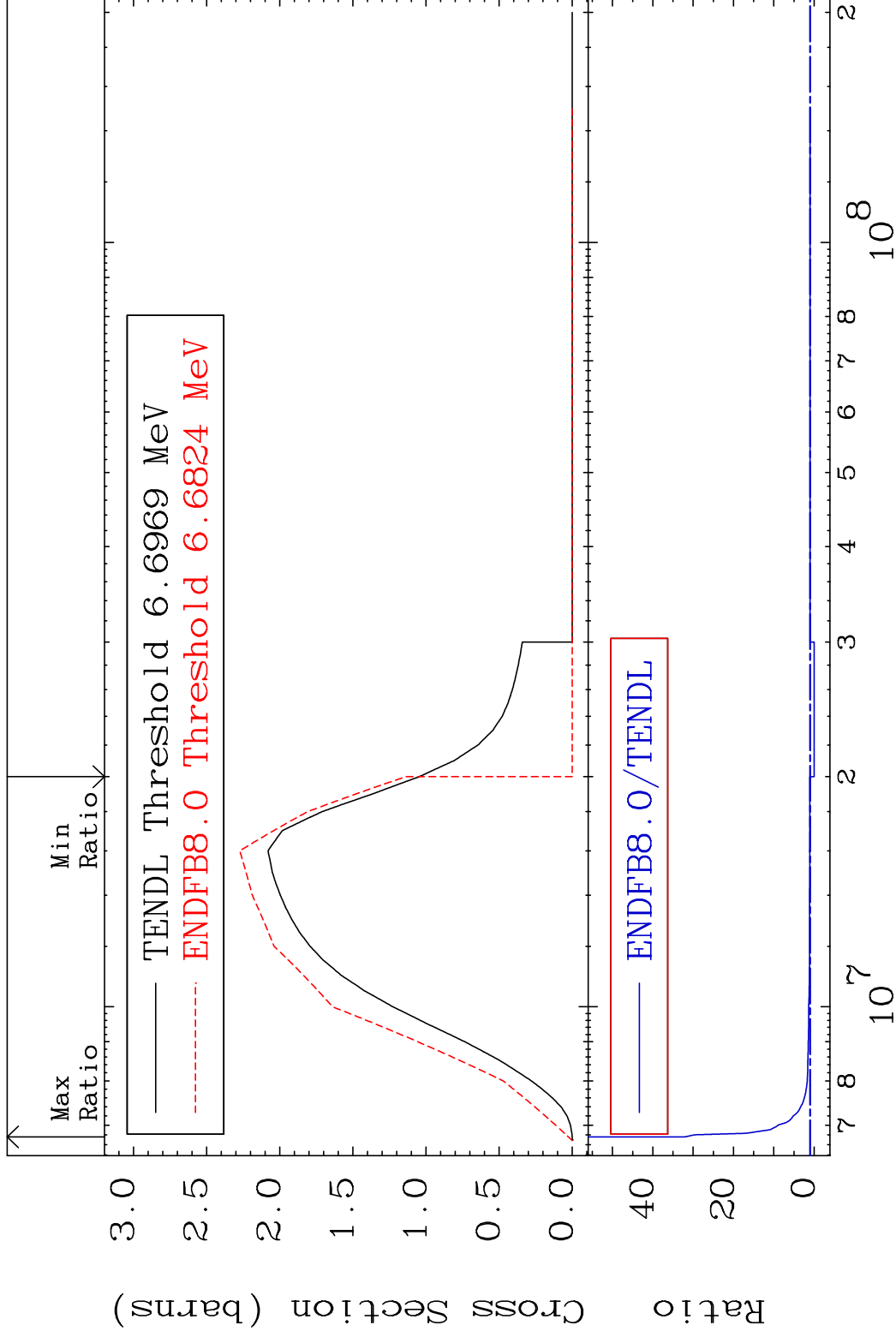
80-Hg-199

MAT 8034

(n,2n)

80-Hg-199

Cross Section -100.0 To 3135. %



5

Incident Energy (eV)

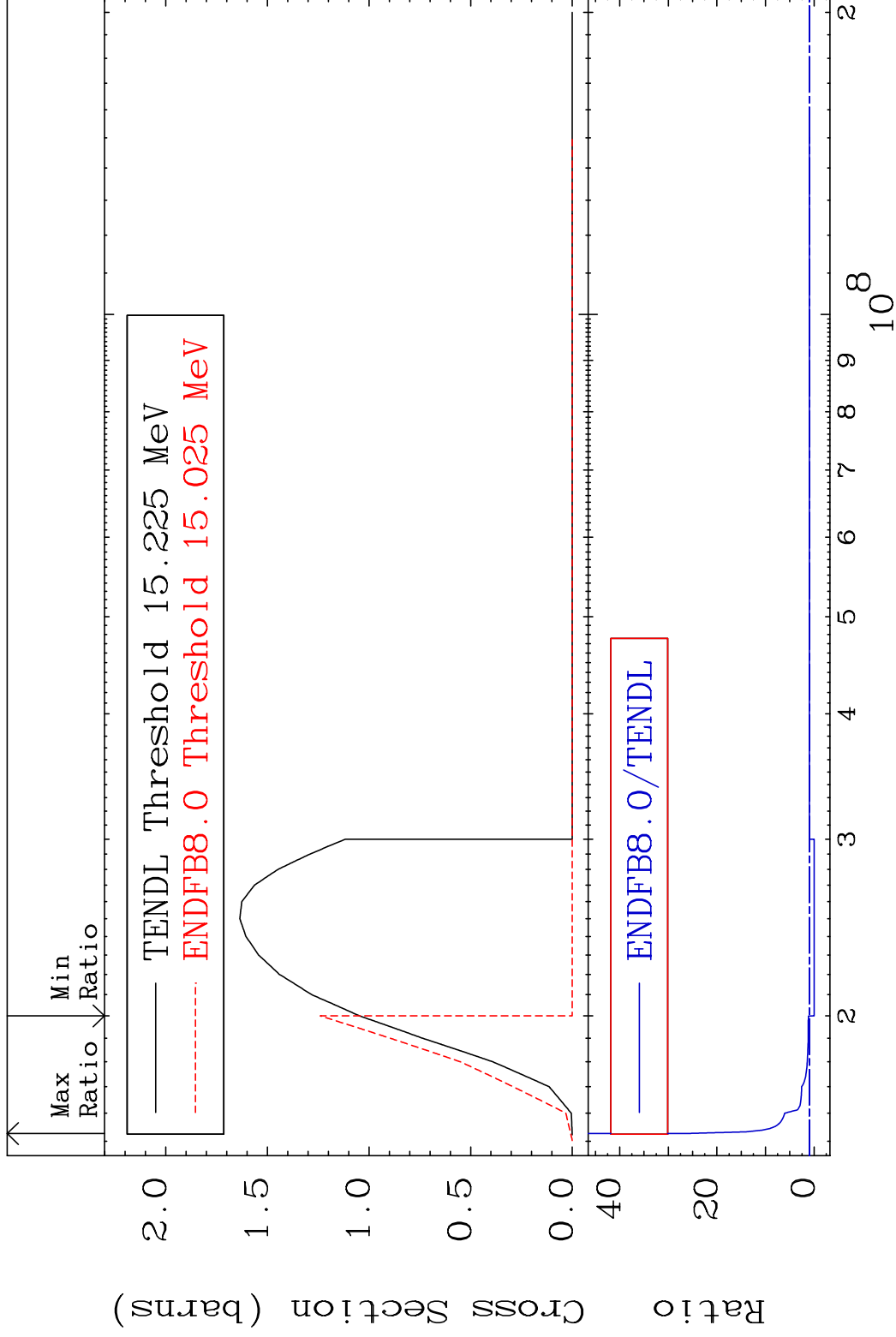
80-Hg-199

MAT 8034

(n,3n)

80-Hg-199

Cross Section -100.0 To 2584. %



6

Incident Energy (eV)

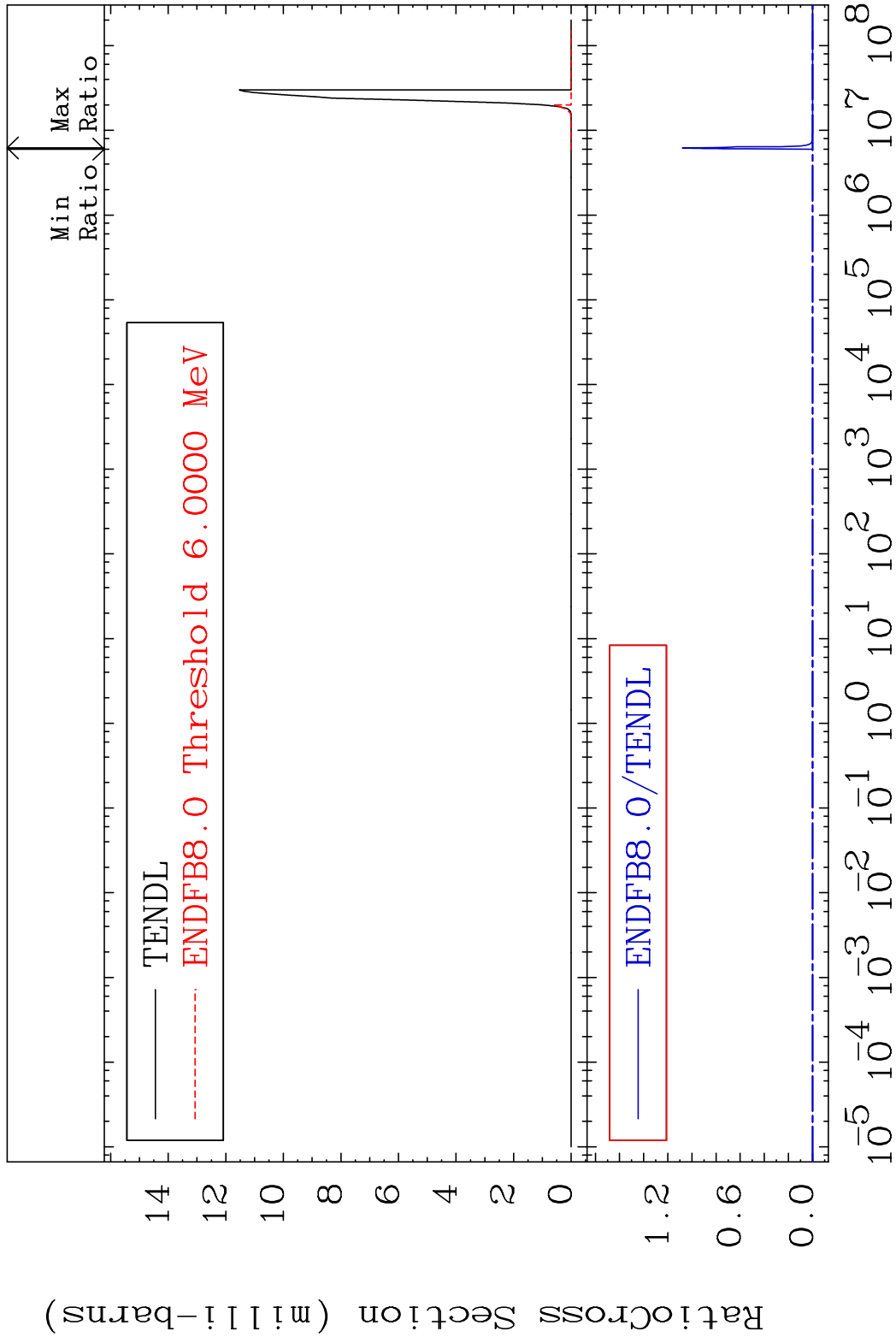
80-Hg-199

MAT 8034

(n, n') α

80-Hg-199

Cross Section -100.0 To 9999. %



7

Incident Energy (eV)

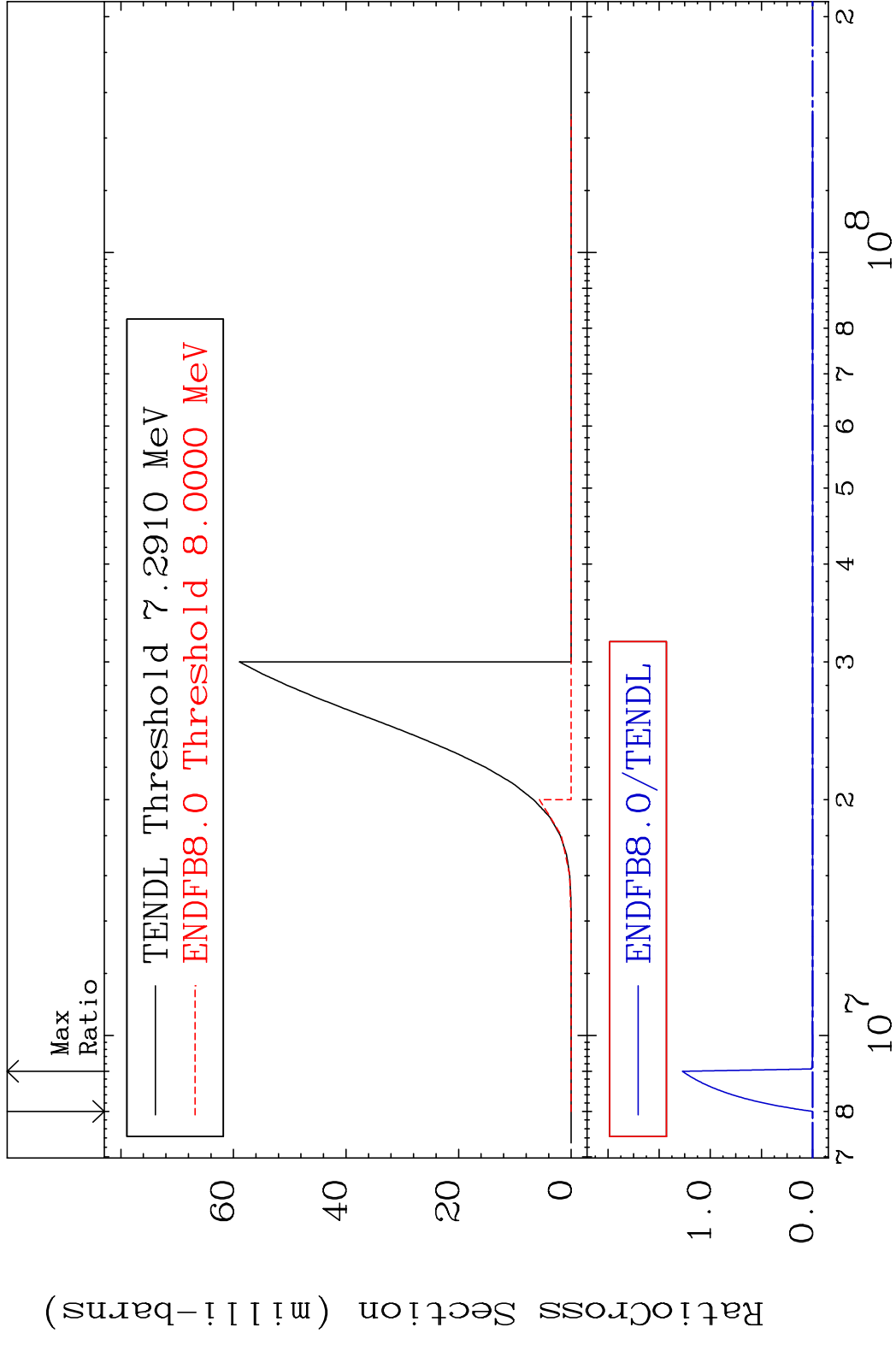
80-Hg-199

MAT 8034

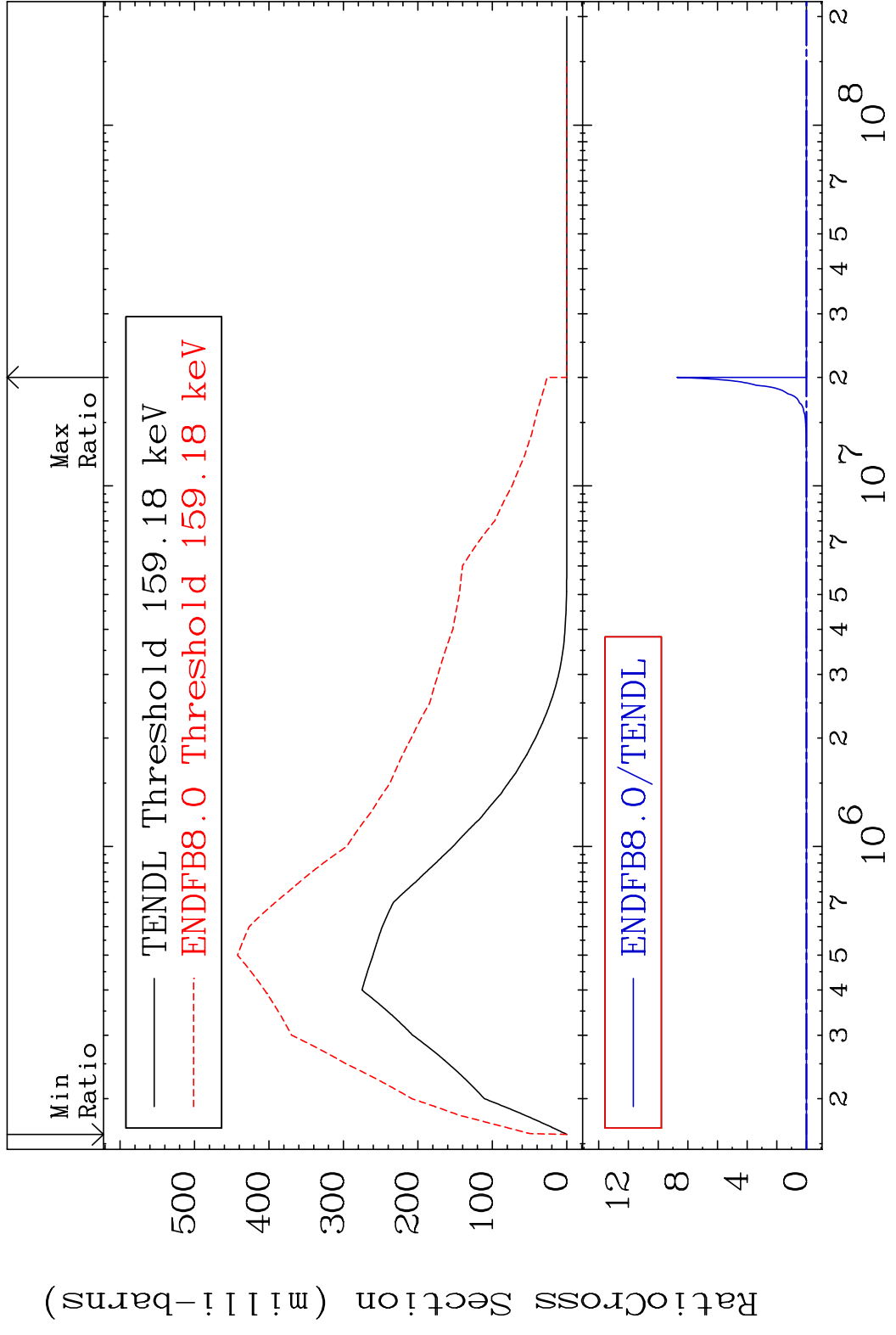
(n, n') p

80-Hg-199

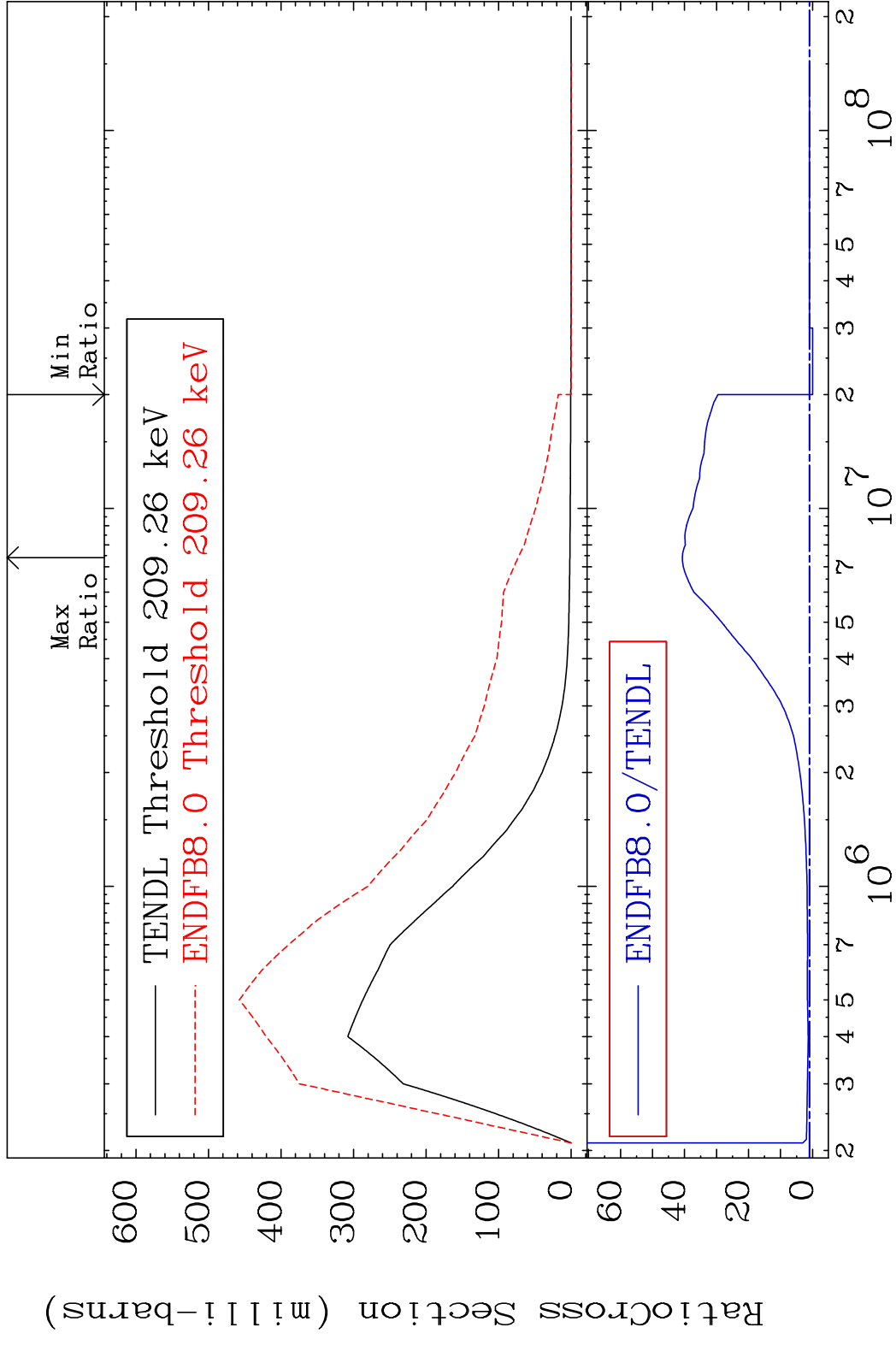
Cross Section -100.0 To 9999. %



MAT 8034 MT= 51 (n, n') Level 80-Hg-199
 Cross Section -100.0 To 9999. %

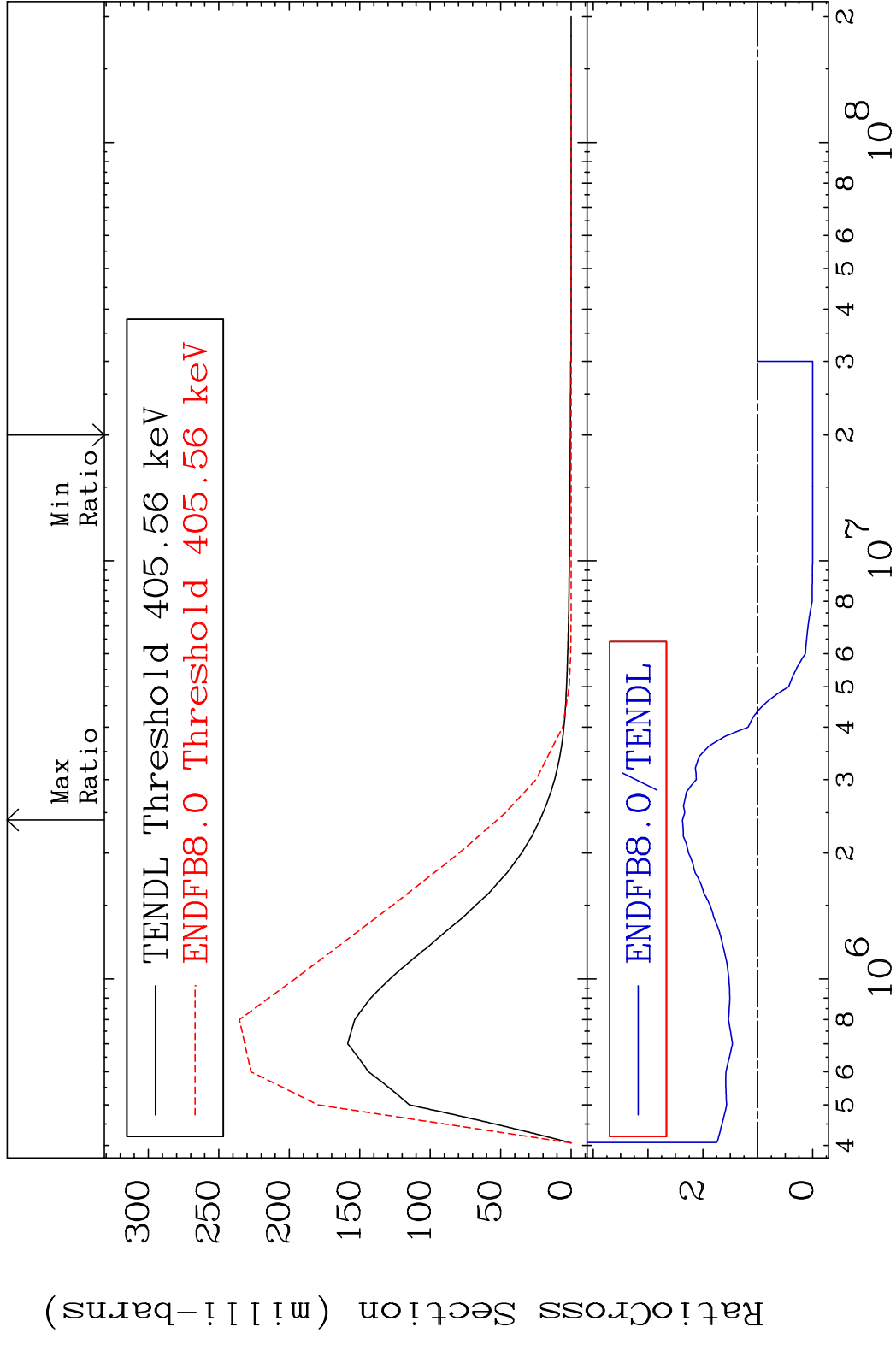


MAT 8034 MT= 52 (n, n') Level 80-Hg-199
 Cross Section -100.0 To 3968. %

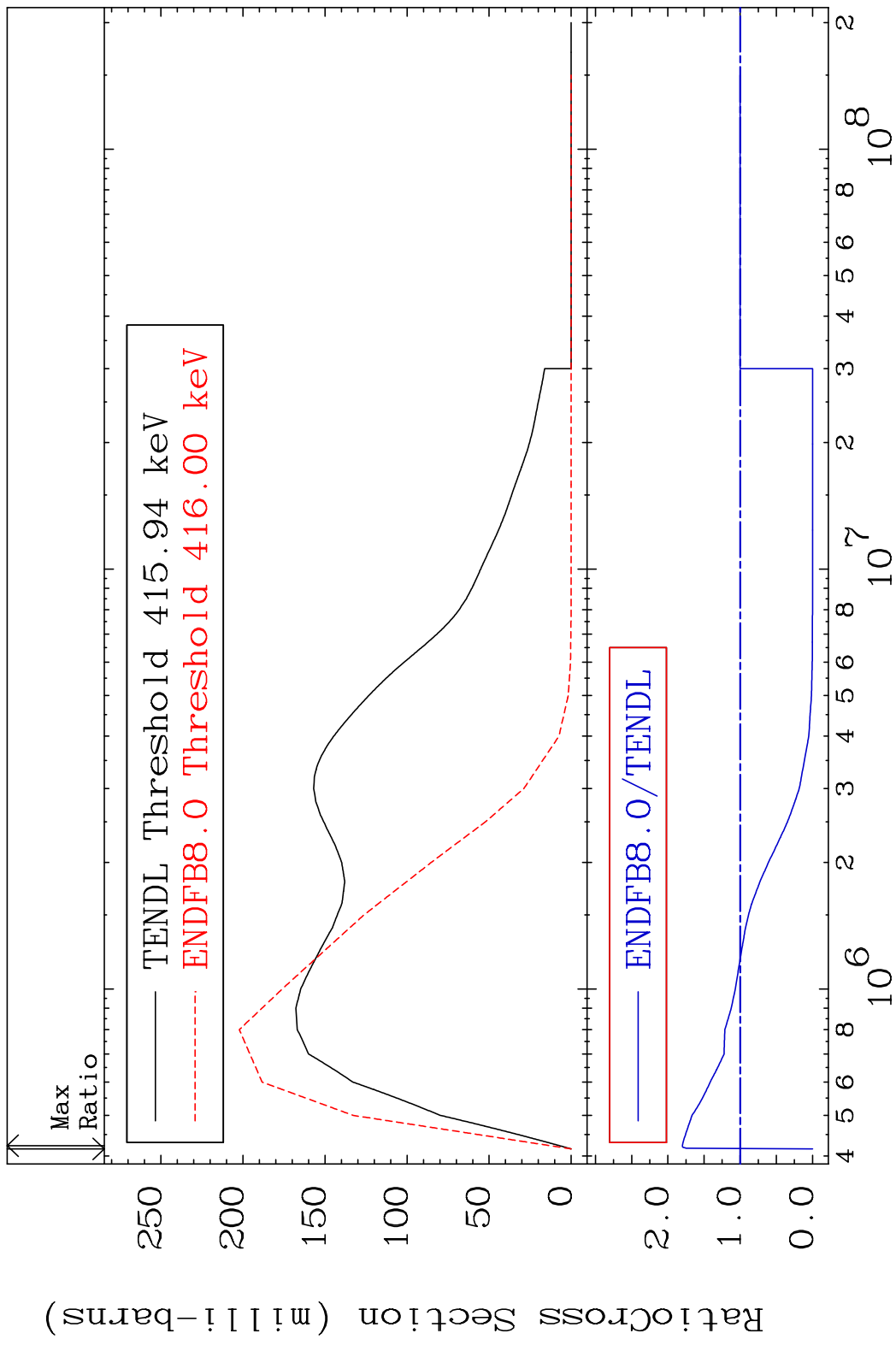


10 Incident Energy (eV) 80-Hg-199

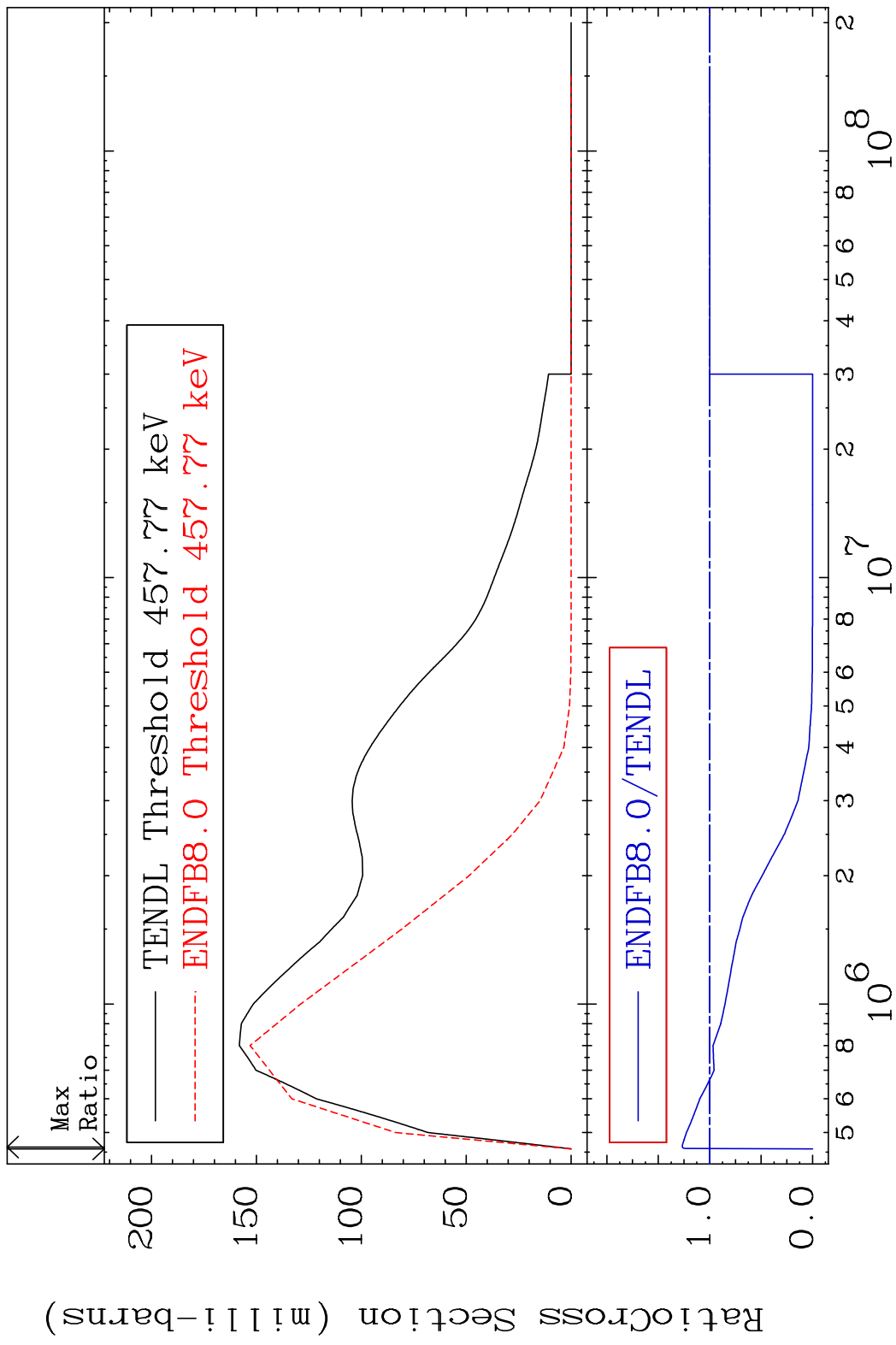
MAT 8034 MT= 53 (n, n') Level 80-Hg-199
 Cross Section -100.0 To 137.4 %



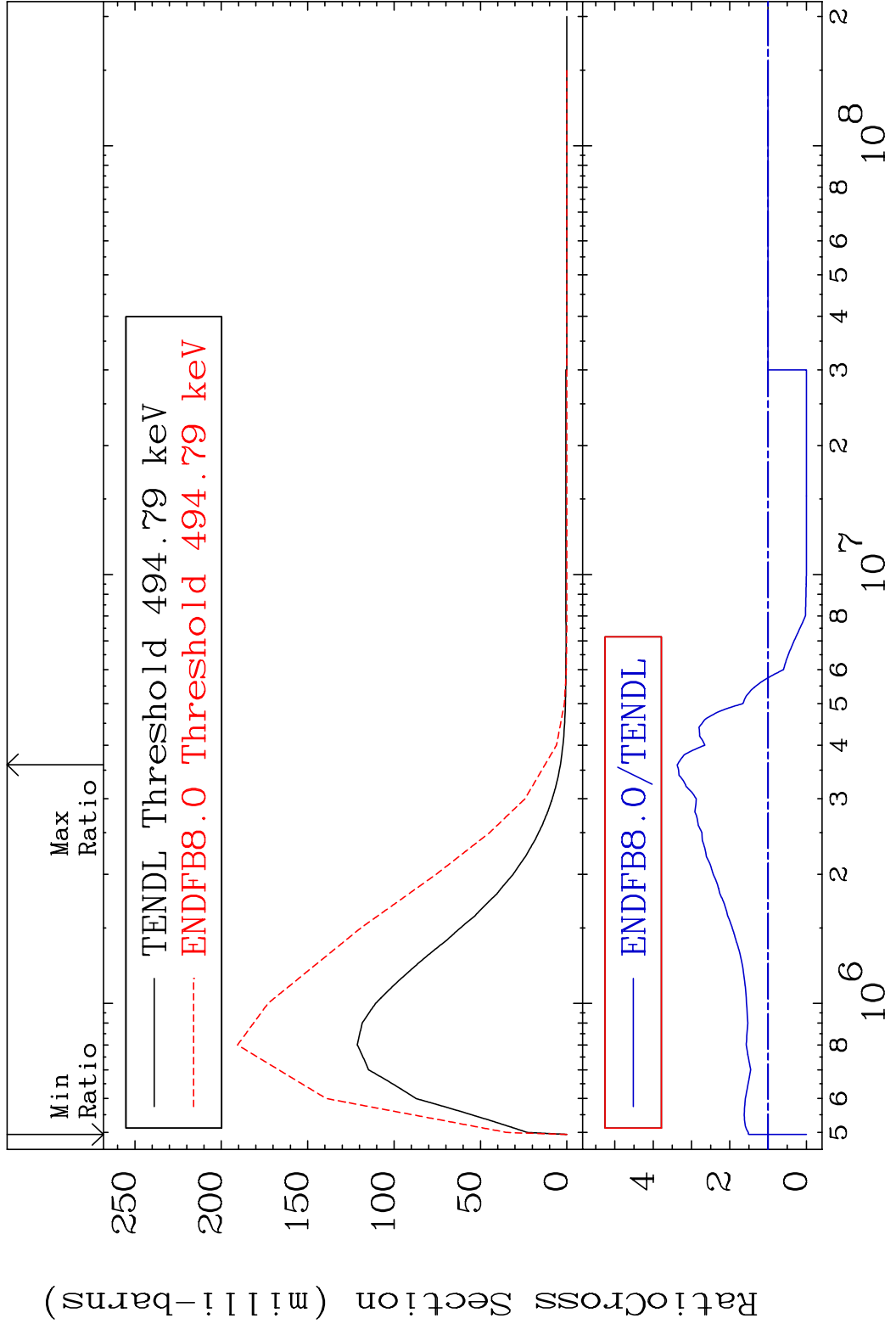
MAT 8034 MT= 54 (n, n') Level 80-Hg-199
 Cross Section -100.0 To 79.94 %



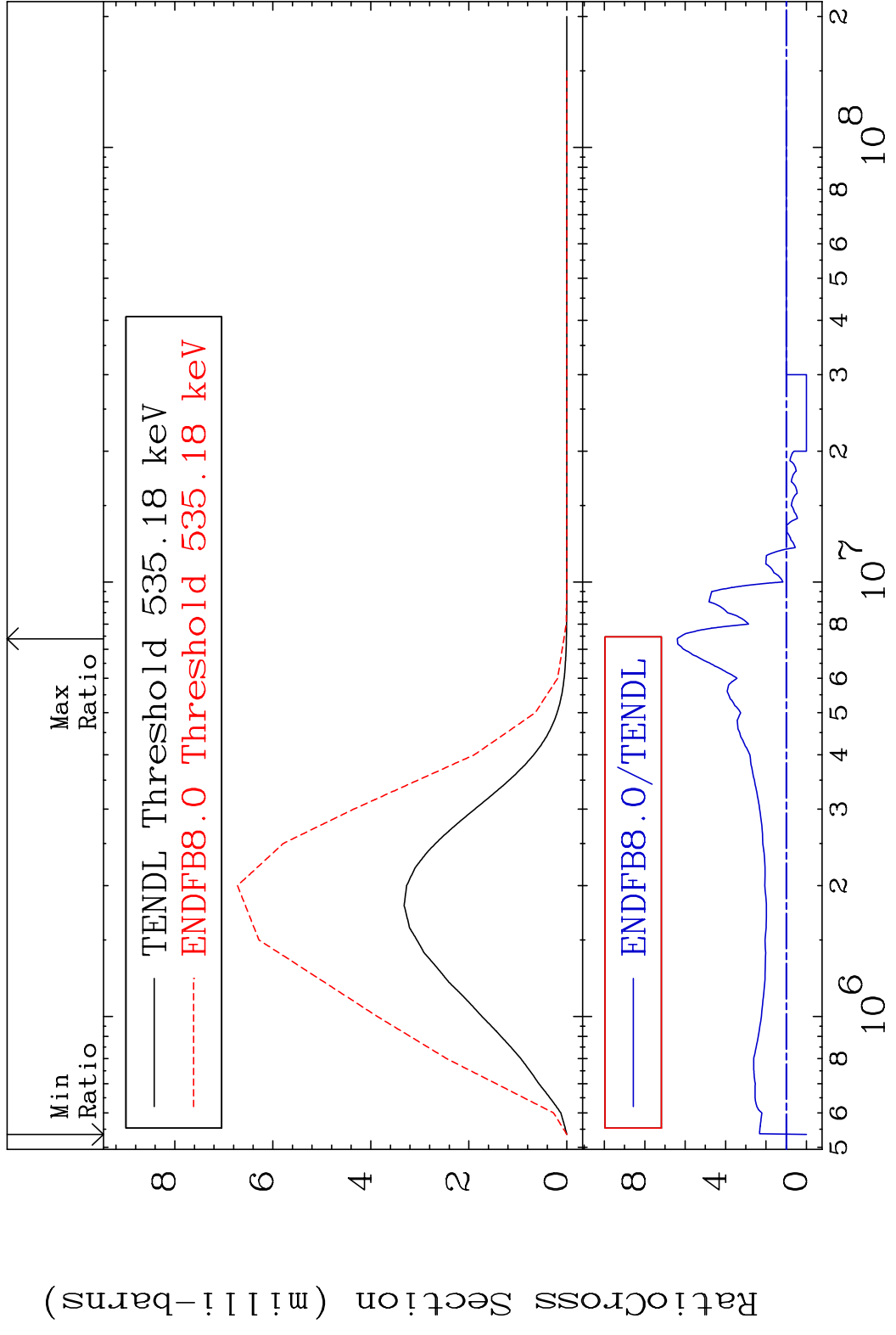
MAT 8034 MT= 55 (n, n') Level 80-Hg-199
 Cross Section -100.0 To 26.59 %



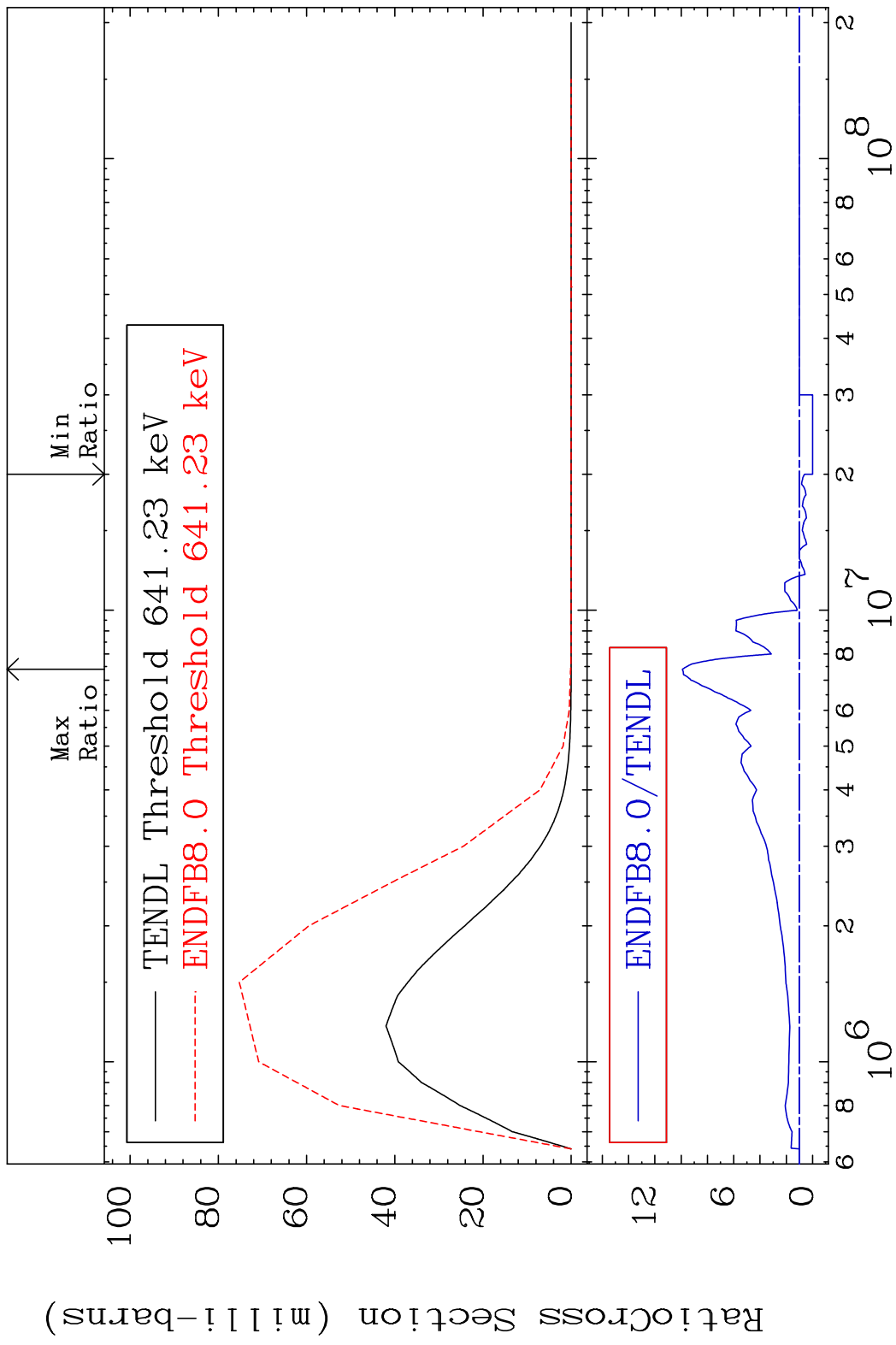
MAT 8034 MT= 56 (n, n') Level 80-Hg-199
 Cross Section -100.0 To 237.3 %



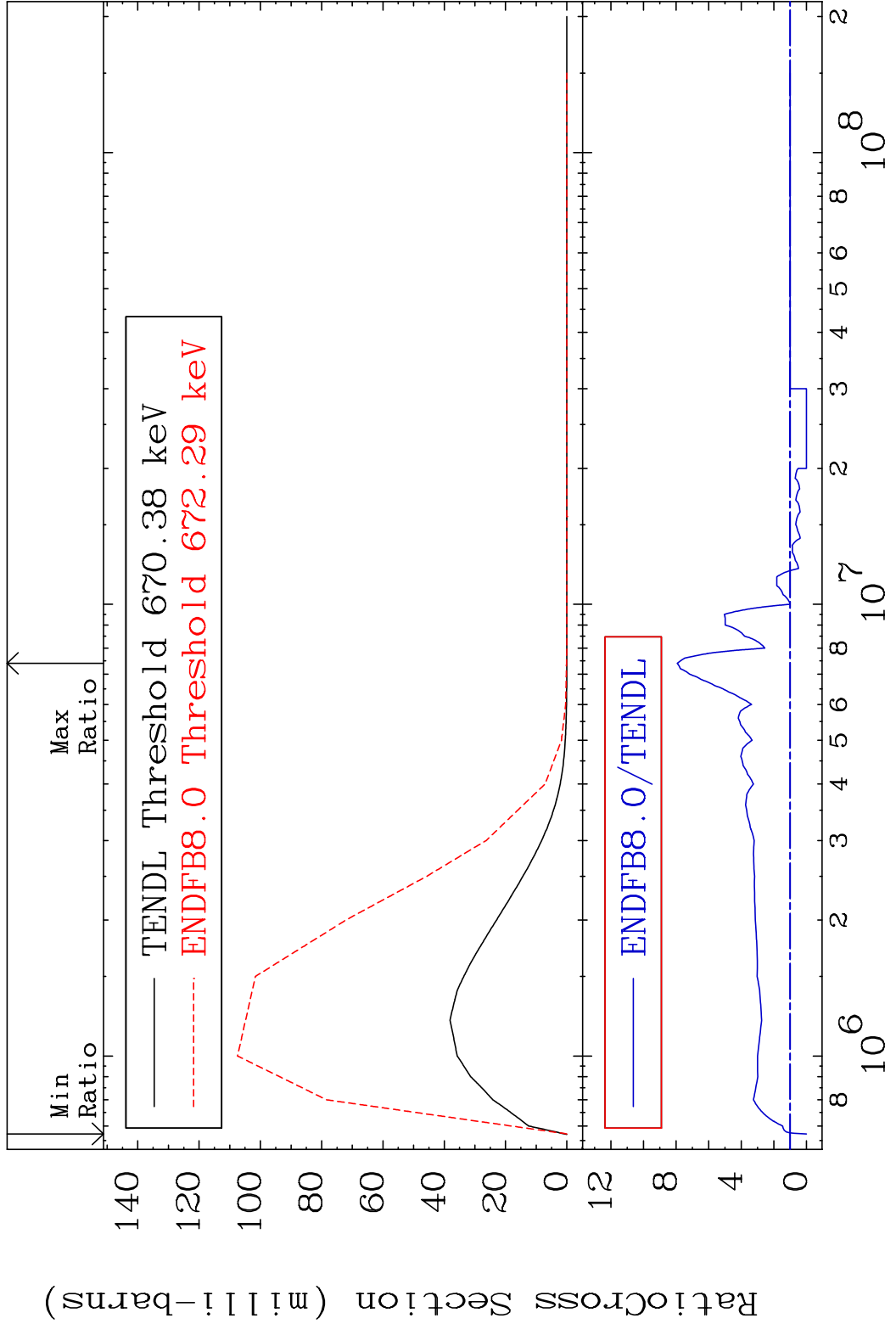
MAT 8034 MT= 57 (n, n') Level 80-Hg-199
 Cross Section -100.0 To 539.6 %



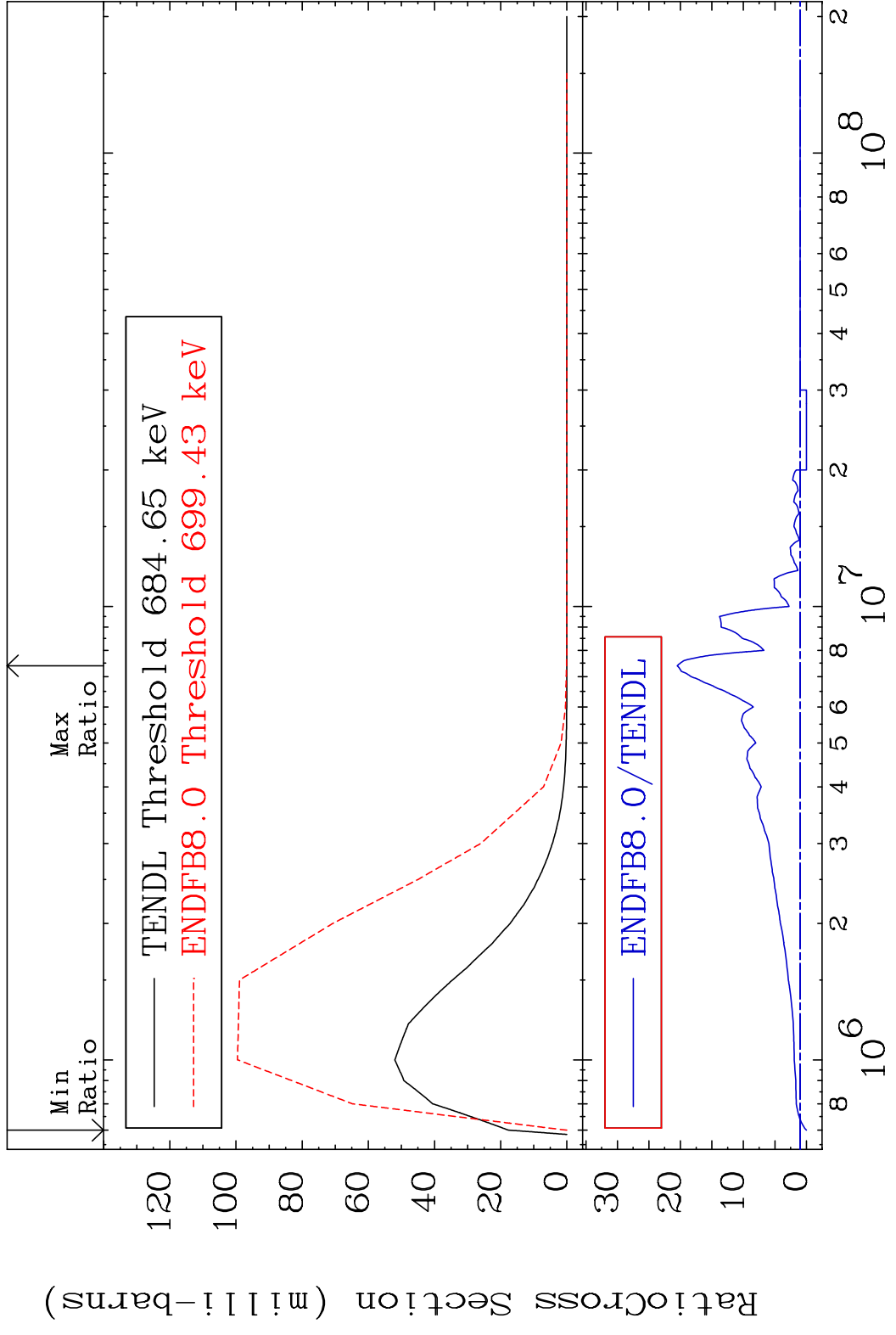
MAT 8034 MT= 58 (n, n') Level 80-Hg-199
 Cross Section -100.0 To 890.8 %



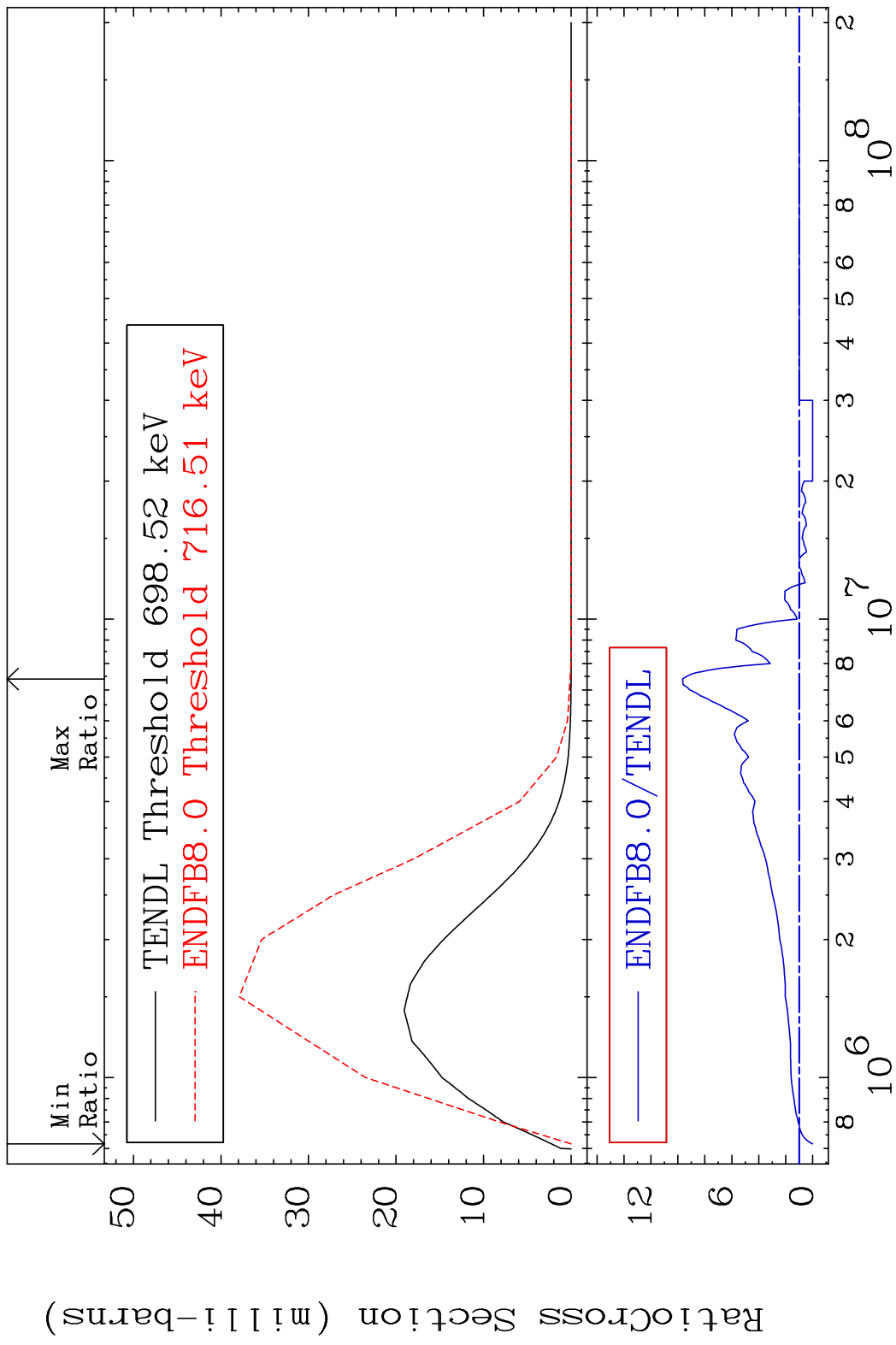
MAT 8034 MT= 59 (n, n') Level 80-Hg-199
 Cross Section -100.0 To 693.3 %



MAT 8034 MT= 60 (n, n') Level 80-Hg-199
 Cross Section -100.0 To 1951. %

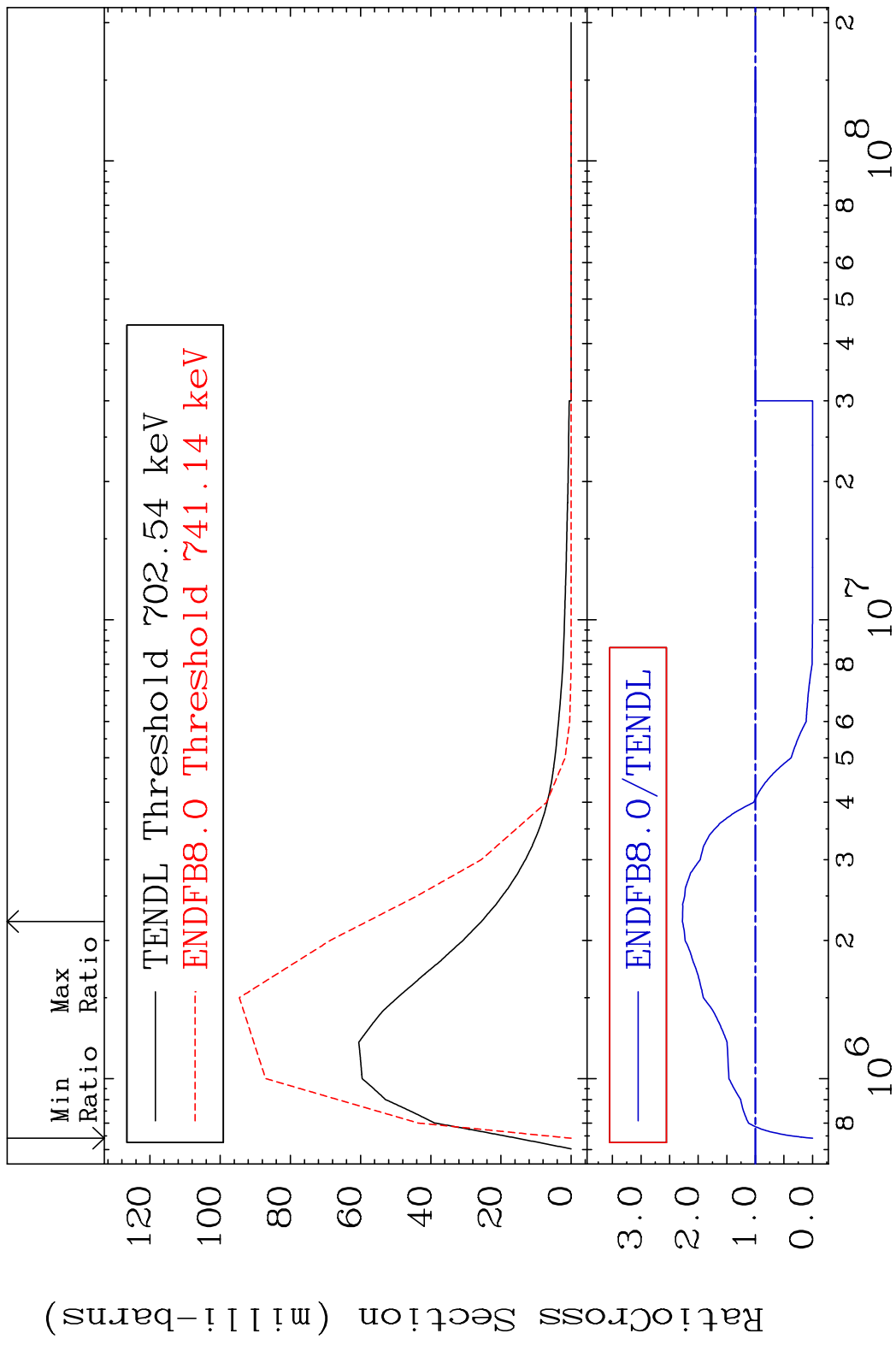


MAT 8034 MT= 61 (n, n') Level 80-Hg-199
 Cross Section -100.0 To 867.0 %



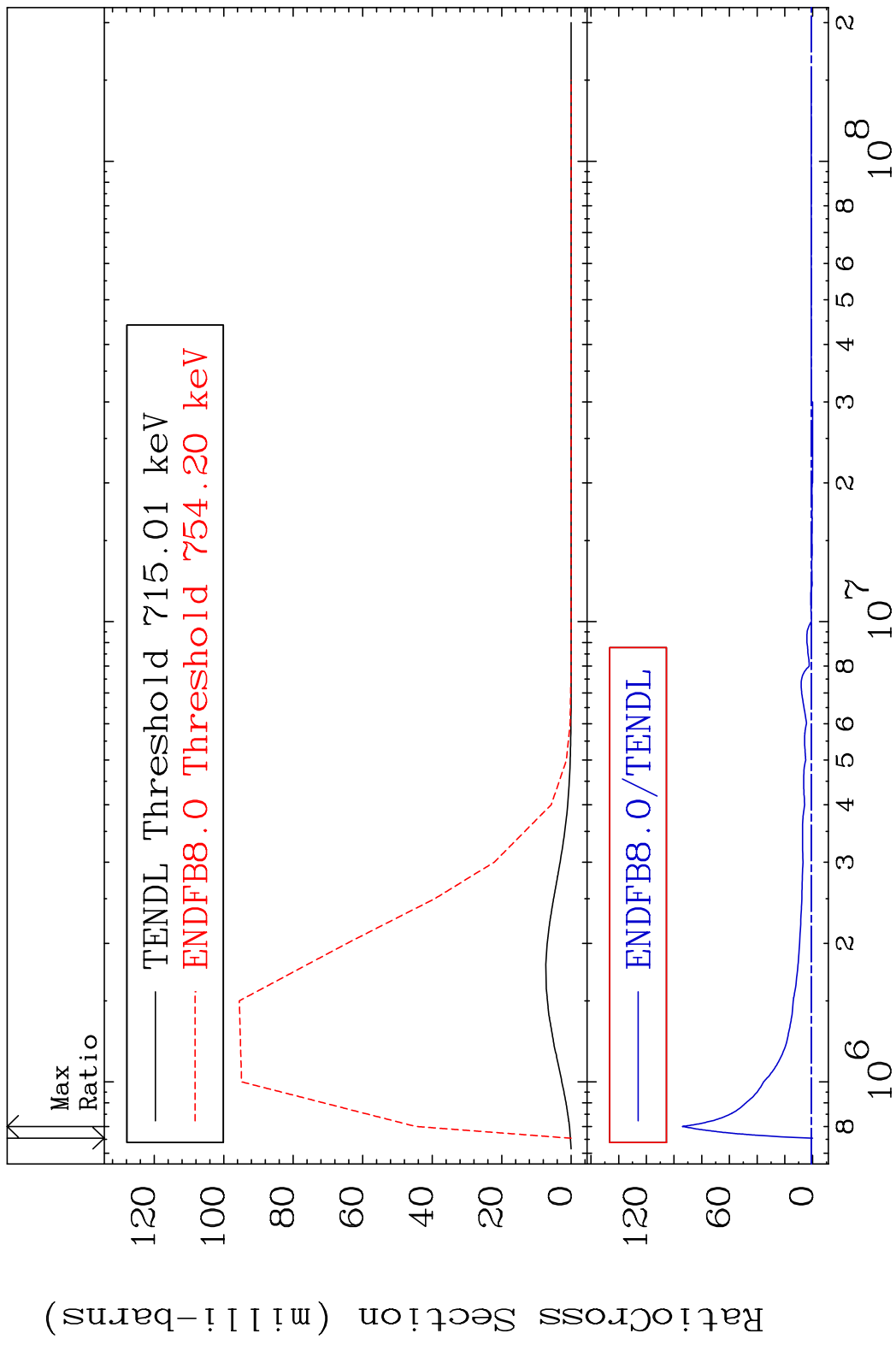
19 80-Hg-199

MAT 8034 MT= 62 (n, n') Level 80-Hg-199
 Cross Section -100.0 To 127.7 %

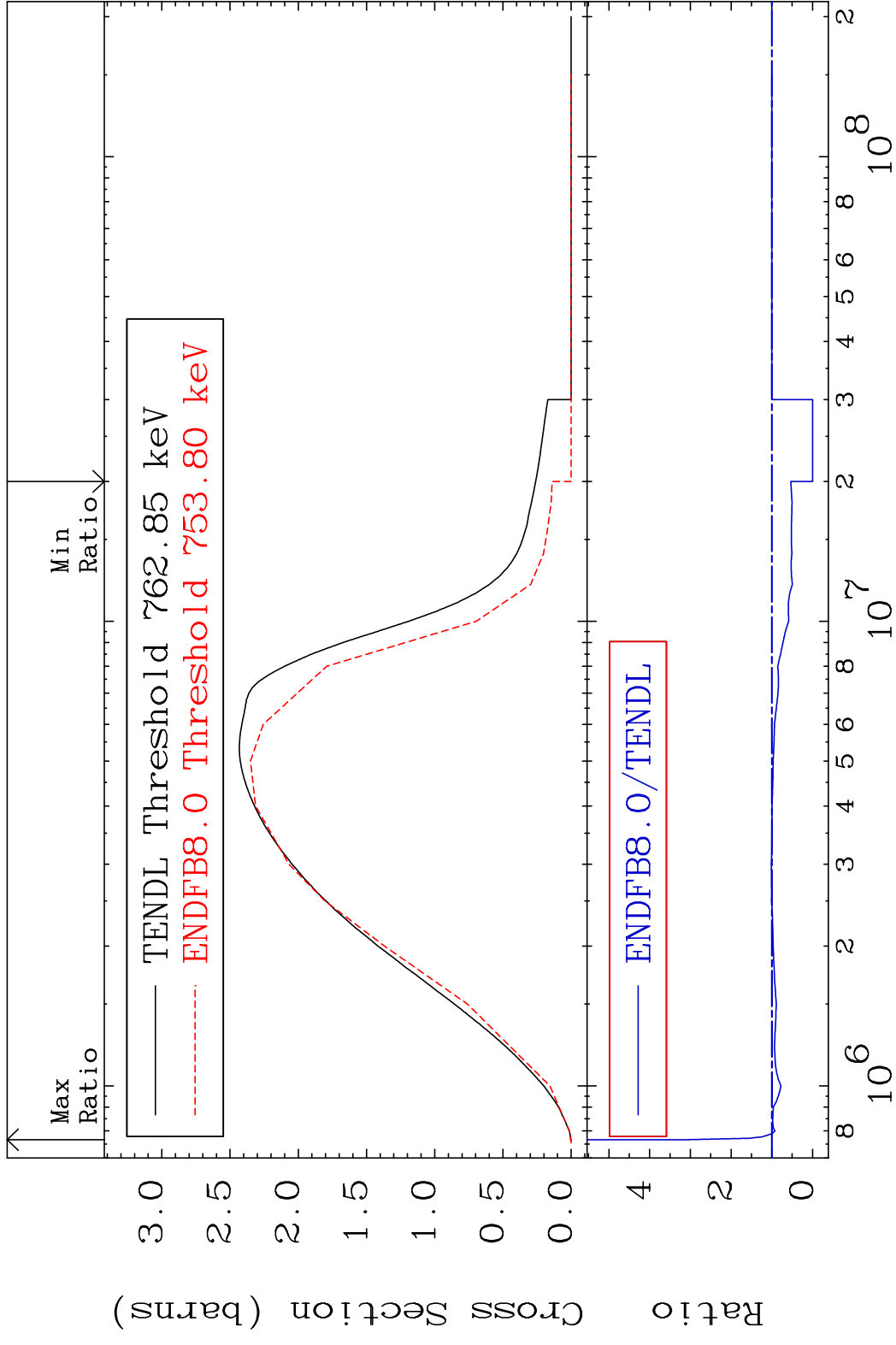


20 80-Hg-199

MAT 8034 MT= 63 (n, n') Level 80-Hg-199
 Cross Section -100.0 To 9301. %



MAT 8034 (n,n') Continuum 80-Hg-199
 Cross Section -100.0 To 219.6 %

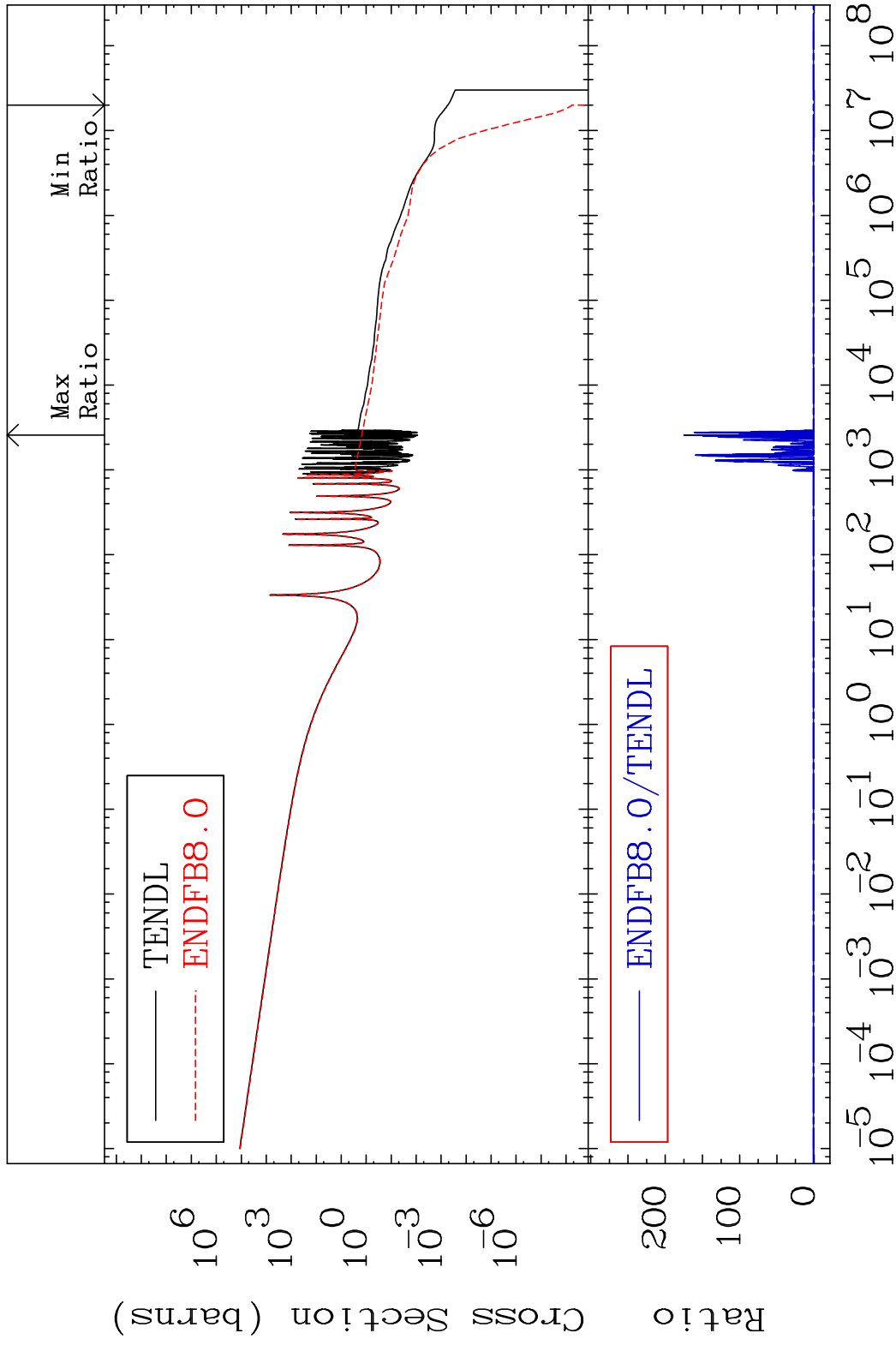


MAT 8034

(n, γ)

80-Hg-199

Cross Section -100.0 To 9999. %



23

Incident Energy (eV)

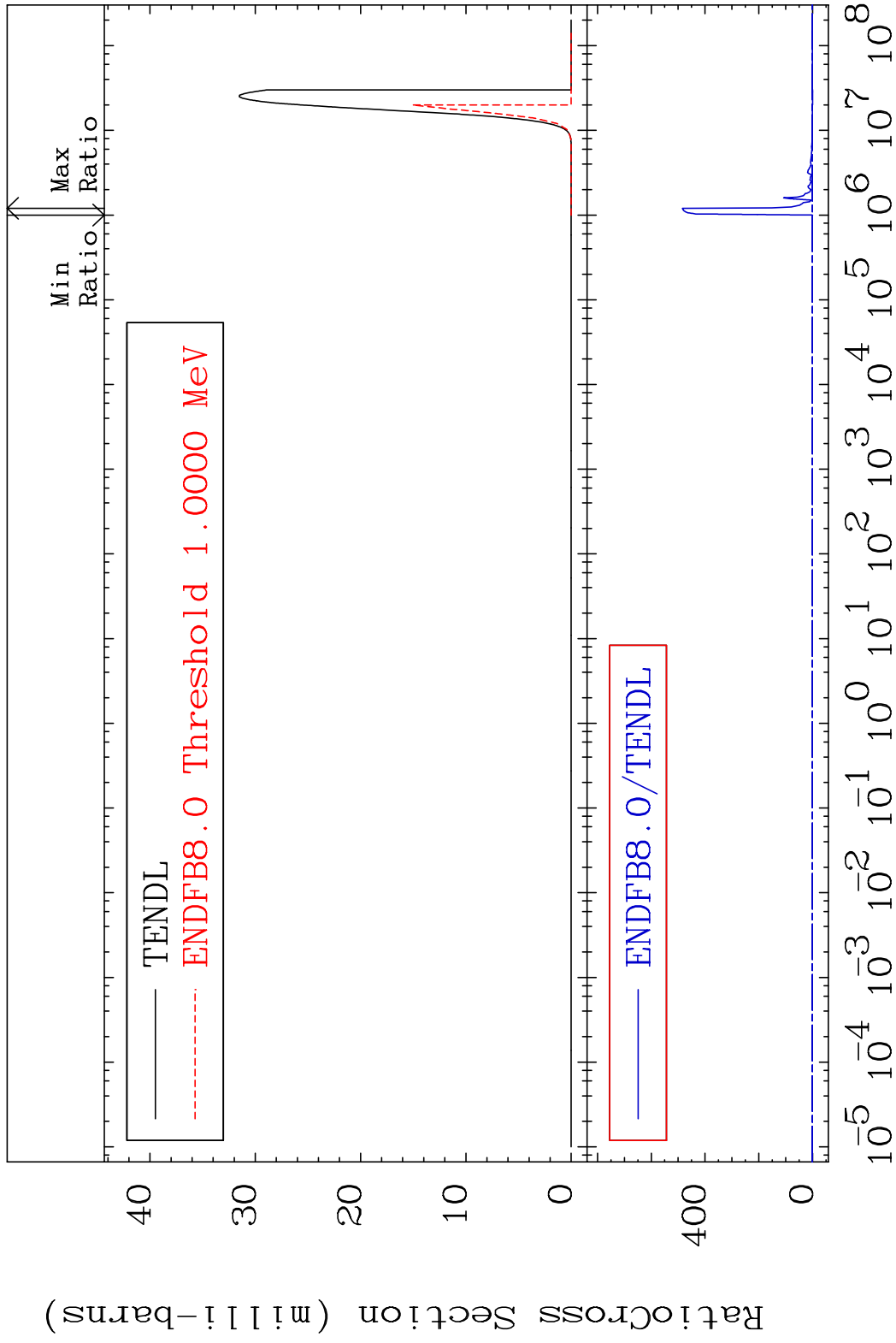
80-Hg-199

MAT 8034

(n, p)

80-Hg-199

Cross Section -100.0 To 9999. %

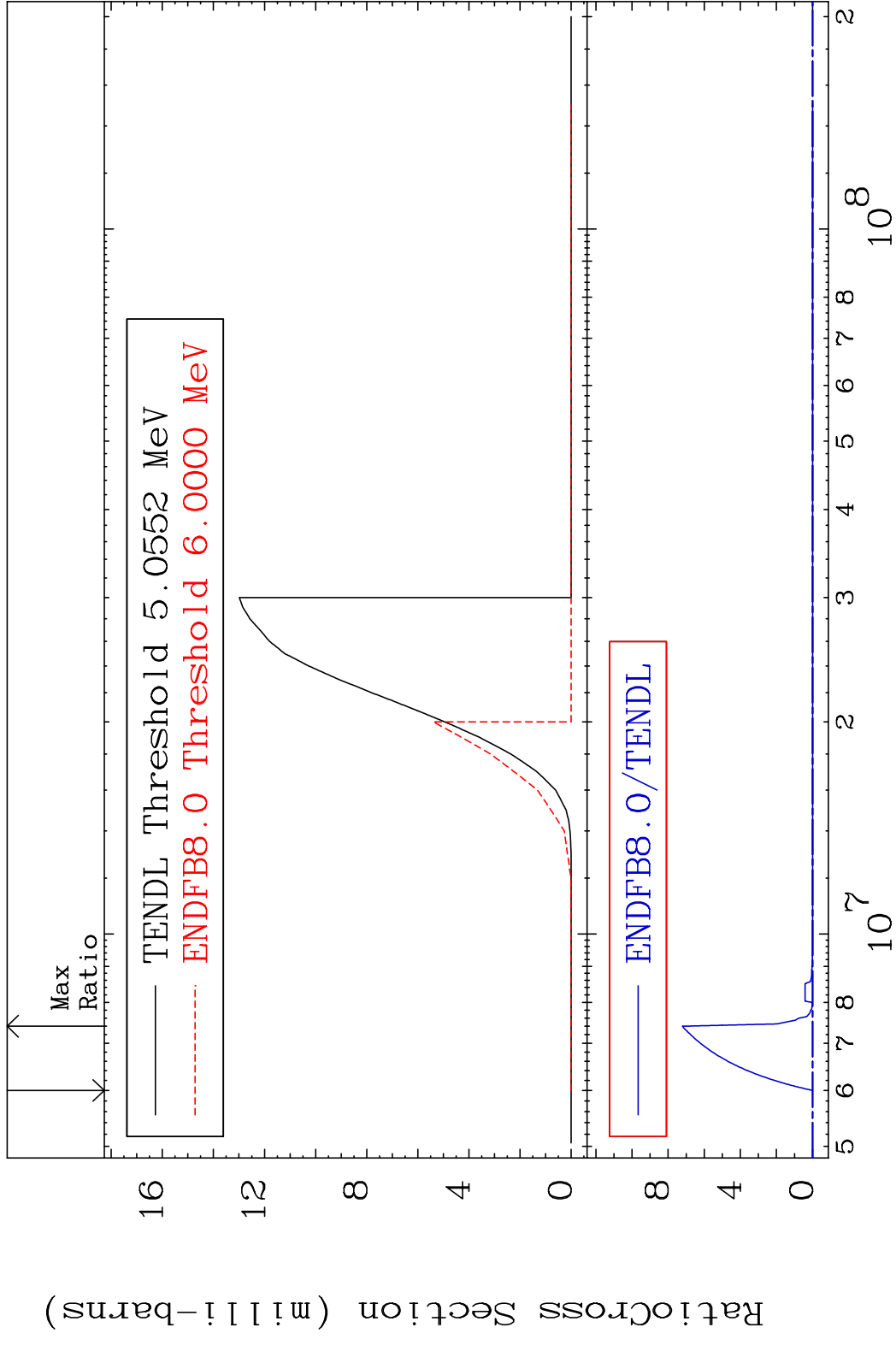


24

Incident Energy (eV)

80-Hg-199

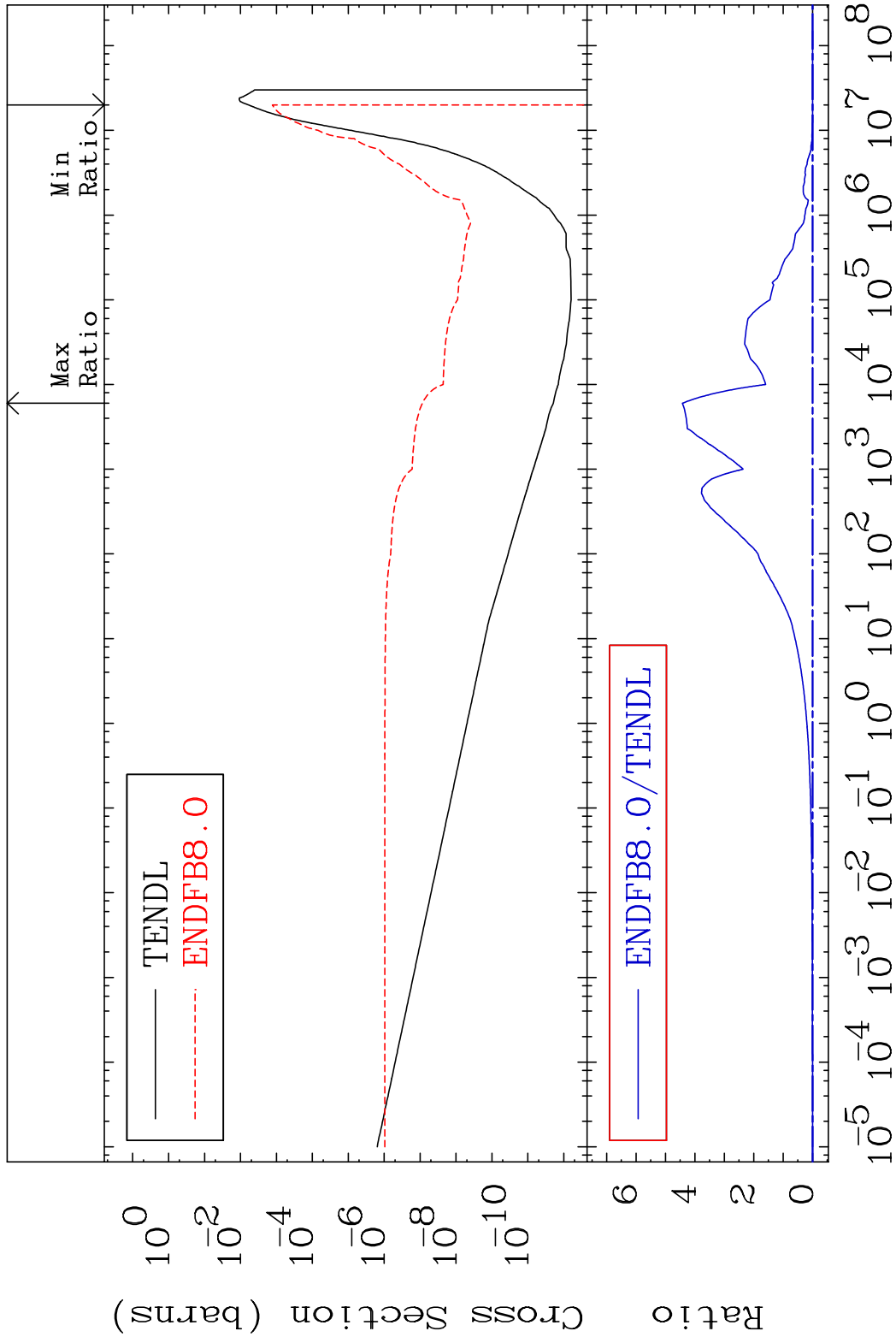
MAT 8034 (n,d) 80-Hg-199
 Cross Section -100.0 To 9999. %



25 Incident Energy (eV) 80-Hg-199

MAT 8034

(n, α) Cross Section 80-Hg-199
-100.0 To 9999. %



26

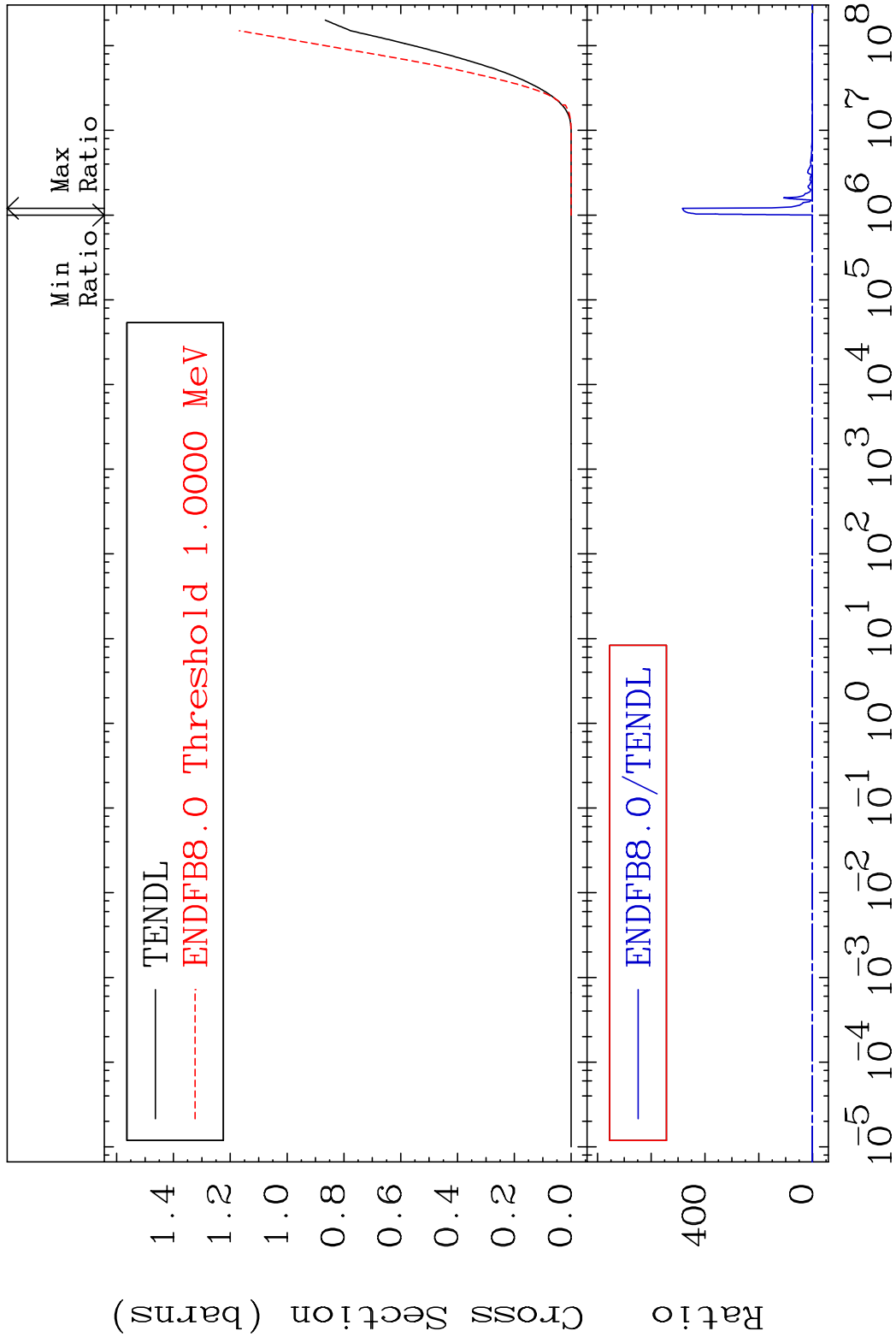
Incident Energy (eV) 80-Hg-199

MAT 8034

Hydrogen Production

80-Hg-199

Cross Section -100.0 To 9999. %

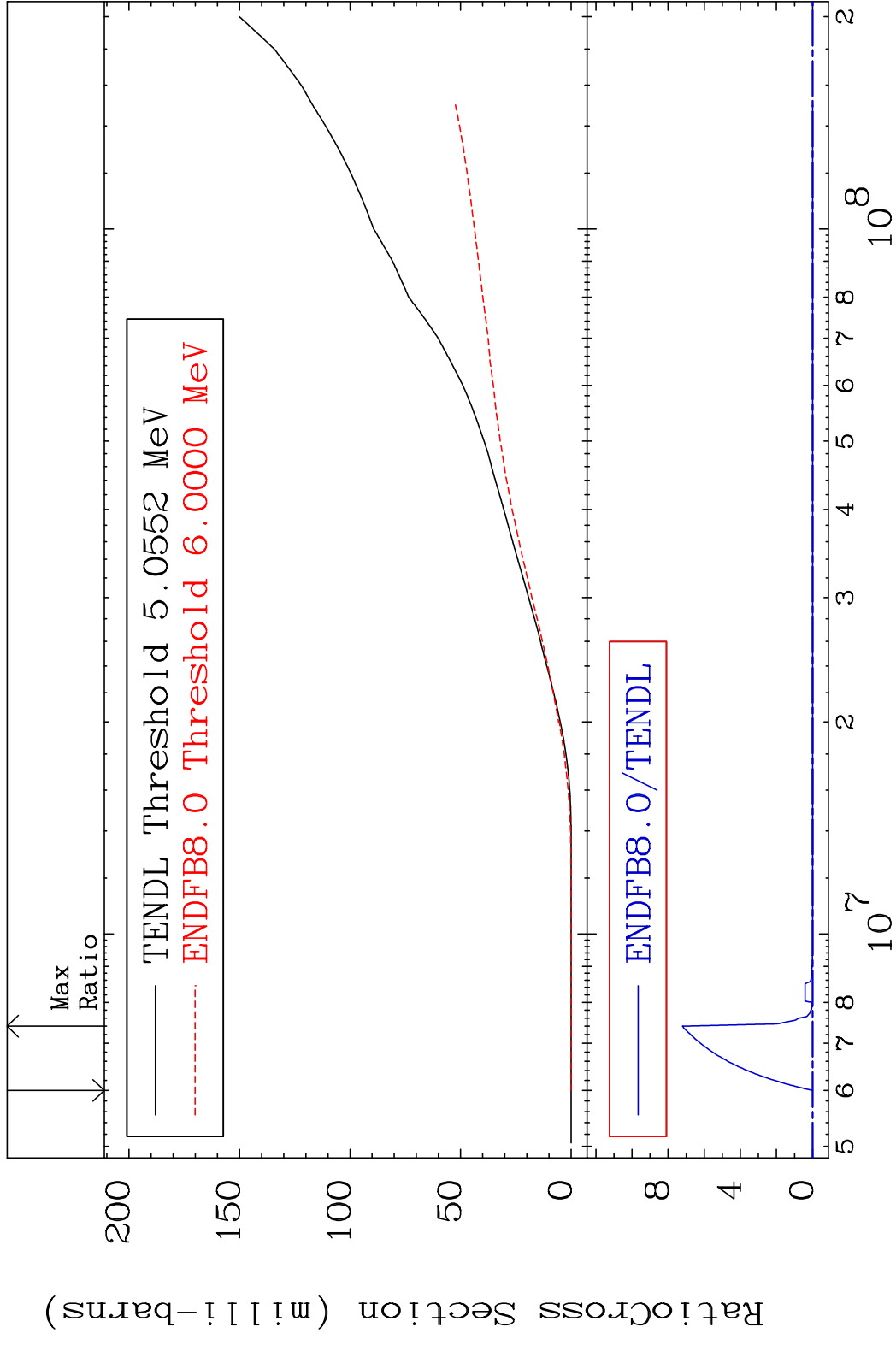


27

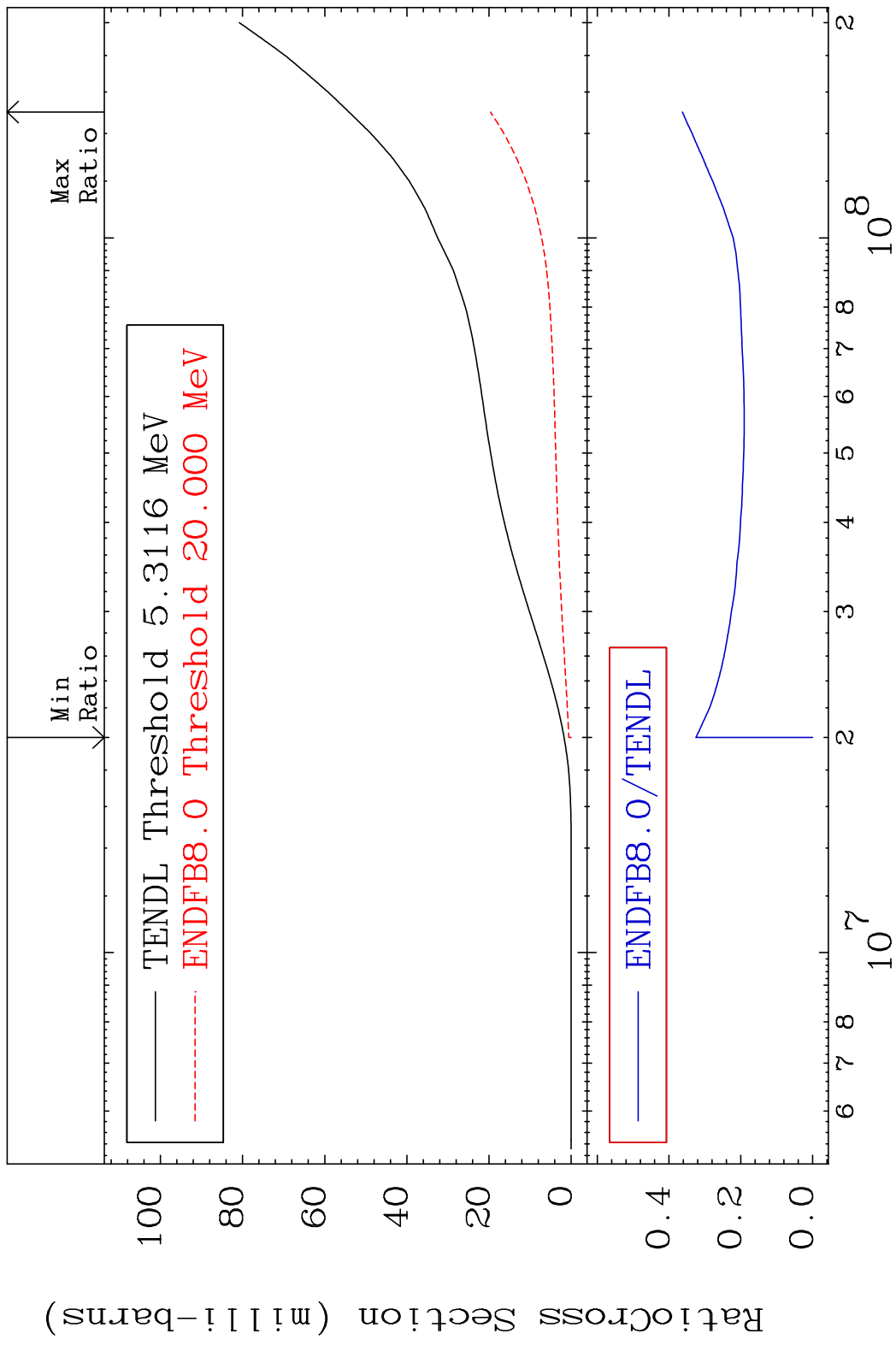
Incident Energy (eV)

80-Hg-199

MAT 8034 Deuterium Production 80-Hg-199
 Cross Section -100.0 To 9999. %



MAT 8034 Tritium Production 80-Hg-199
 Cross Section -100.0 To -63.71%

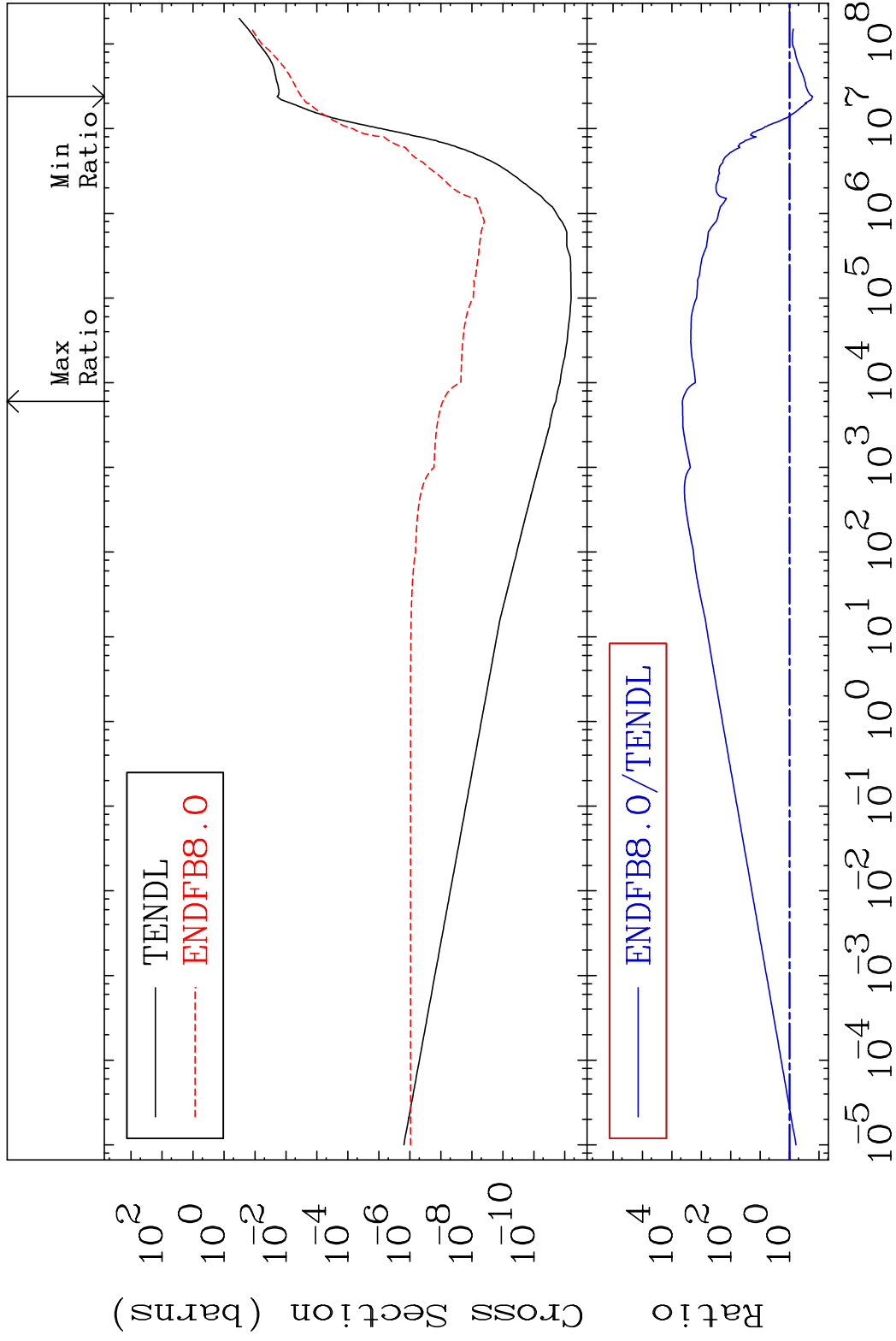


MAT 8034

He-4 Production

80-Hg-199

Cross Section -83.34 To 9999. %

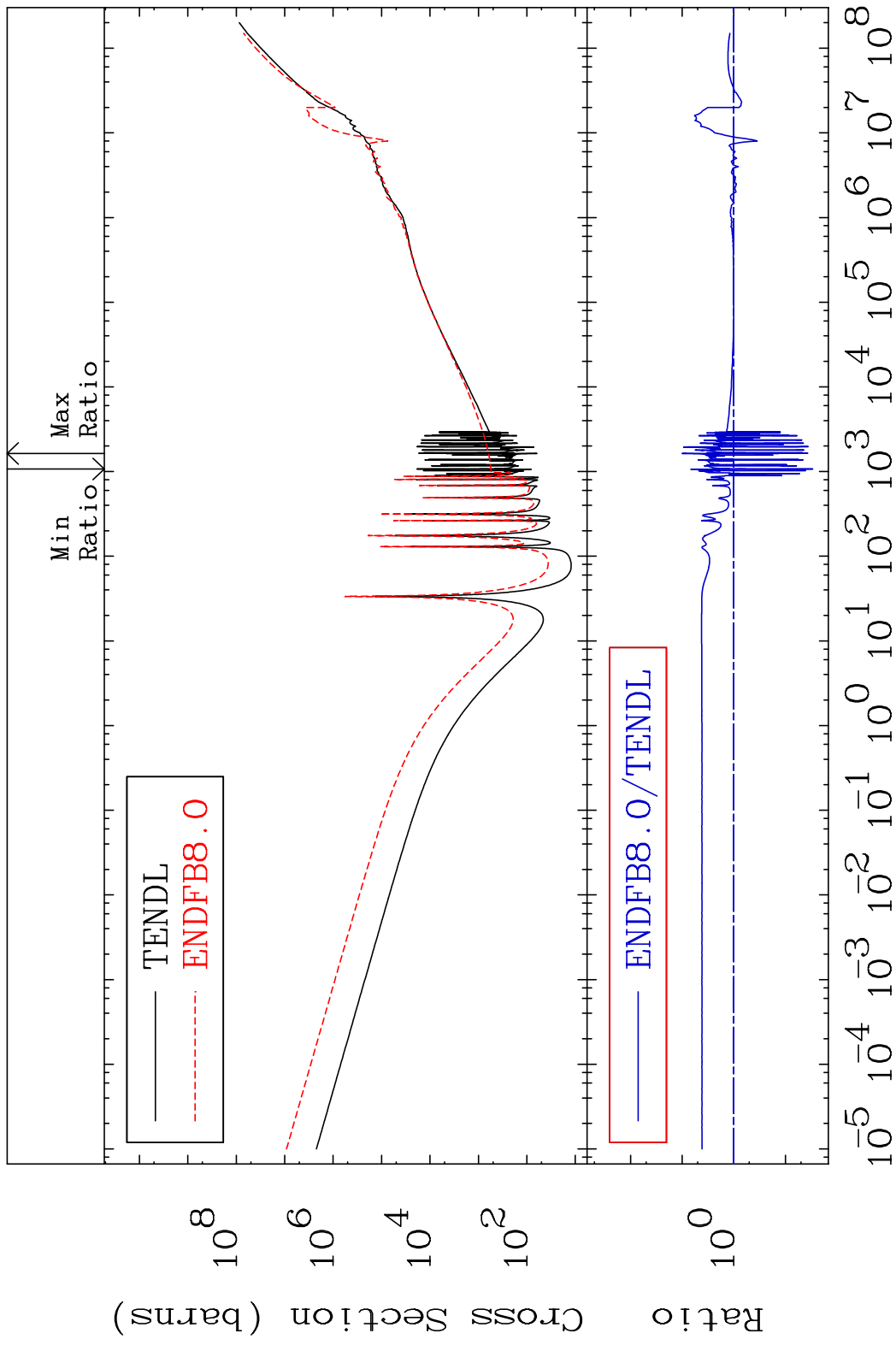


30

Incident Energy (eV)

80-Hg-199

MAT 8034 Kerma total (eV-barns) 80-Hg-199
 Cross Section -97.02 To 890.9 %



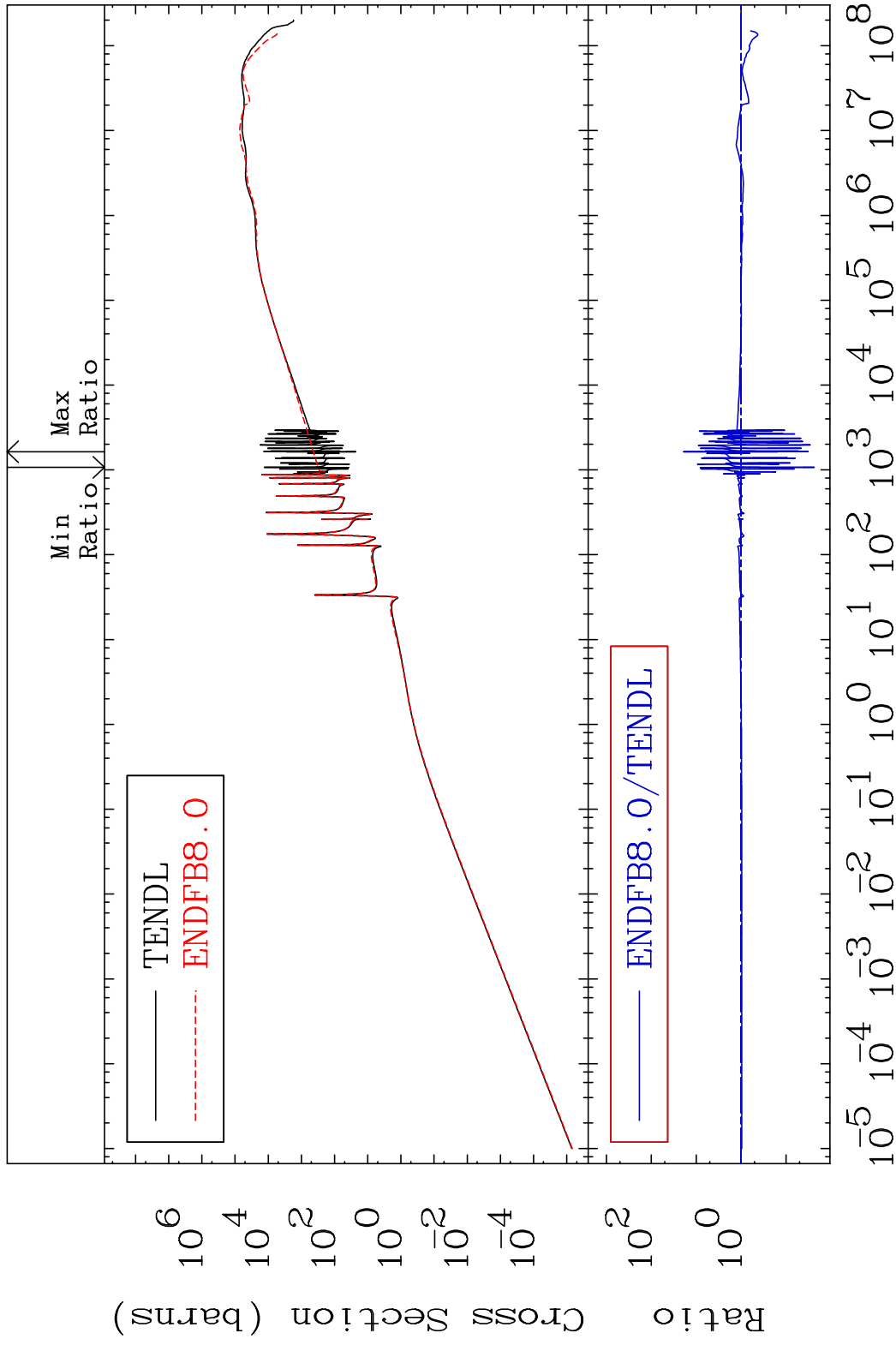
31 Incident Energy (eV) 80-Hg-199

MAT 8034

Kerma elastic

80-Hg-199

Cross Section -97.64 To 1798. %

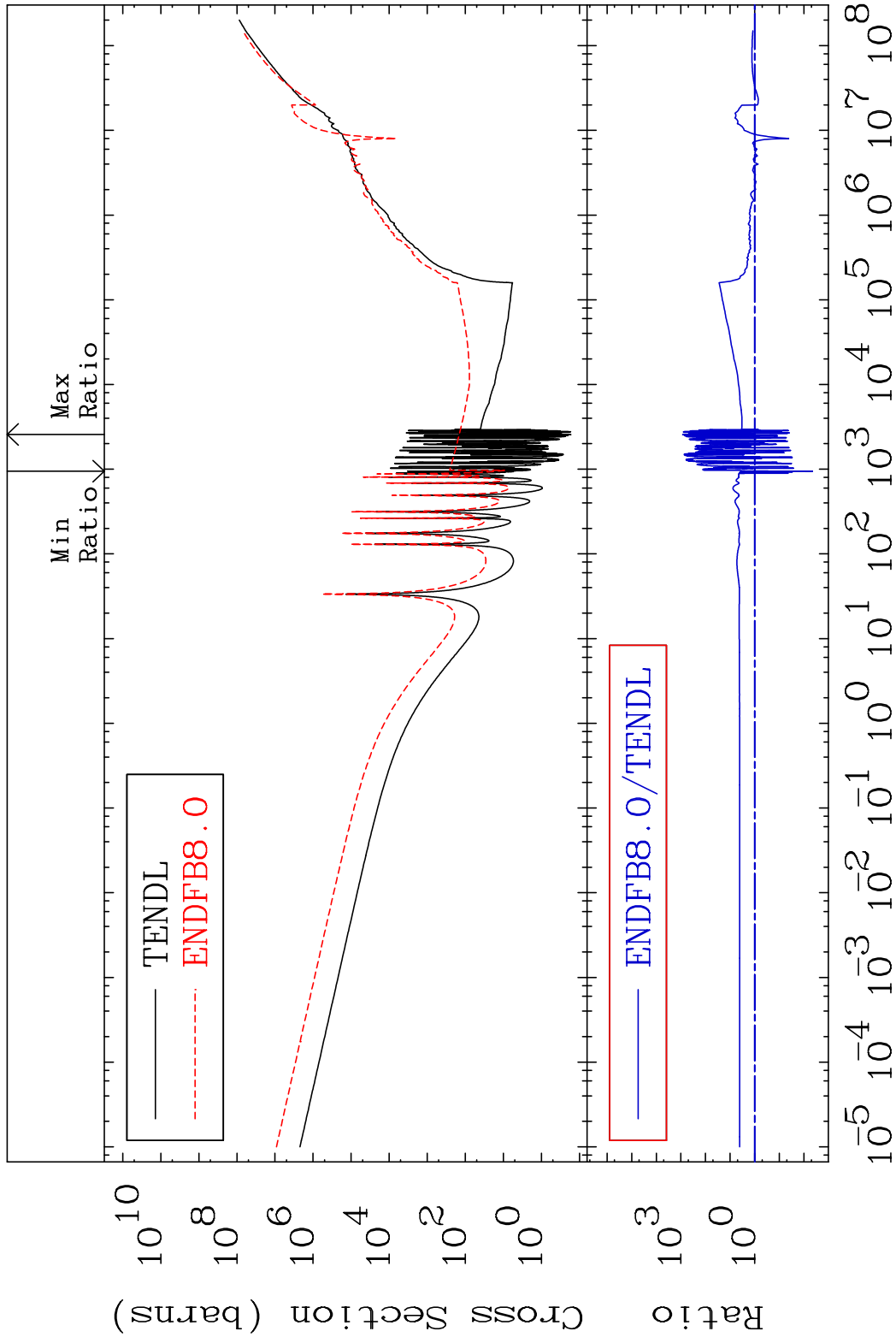


32

Incident Energy (eV)

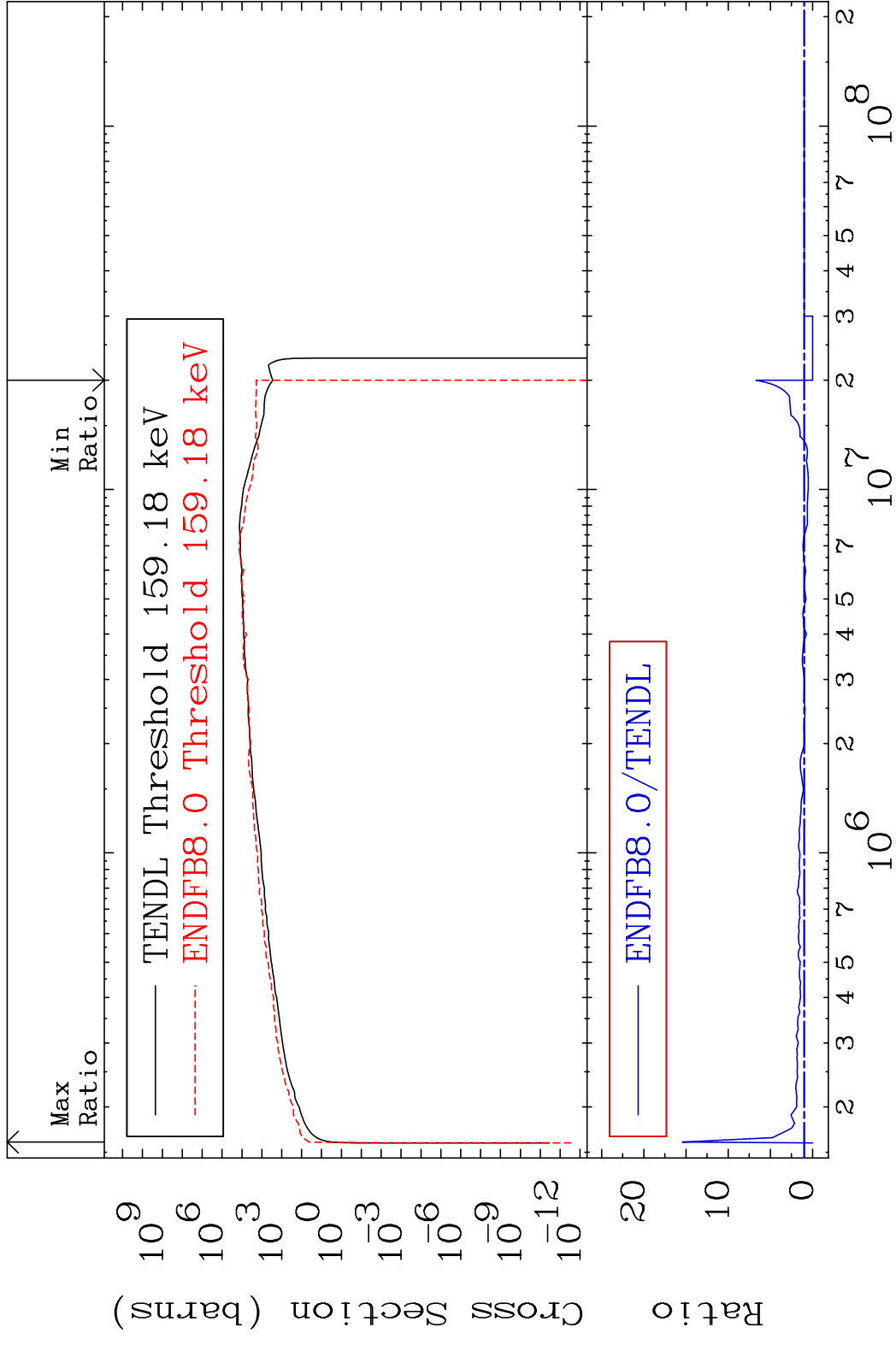
80-Hg-199

MAT 8034 Kerma non-elastic (all but mt2) 80-Hg-199
 Cross Section -99.55 To 9999. %

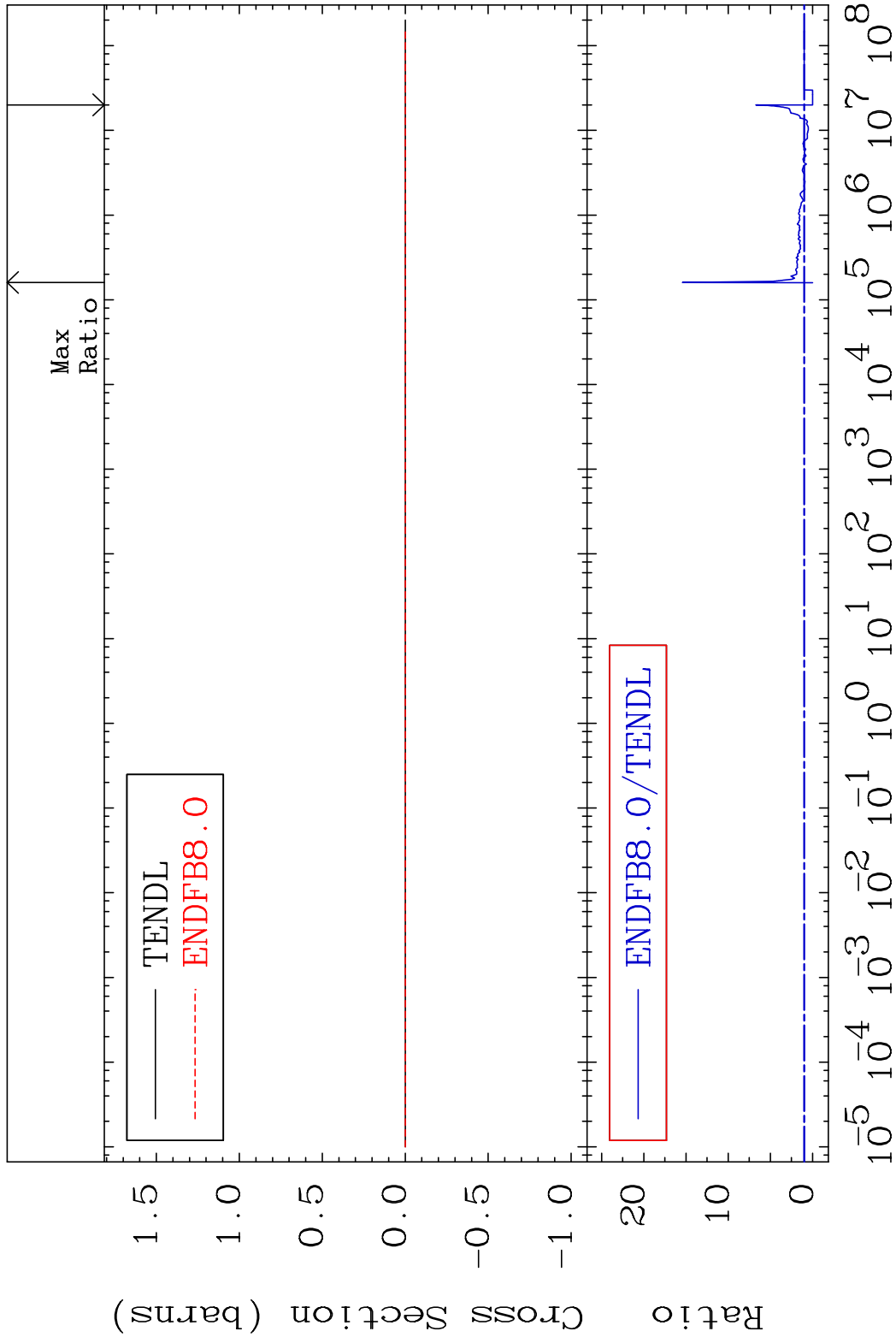


33 Incident Energy (eV) 80-Hg-199

MAT 8034 Kerma inelastic (mt51-91) 80-Hg-199
 Cross Section -100.0 To 1443. %



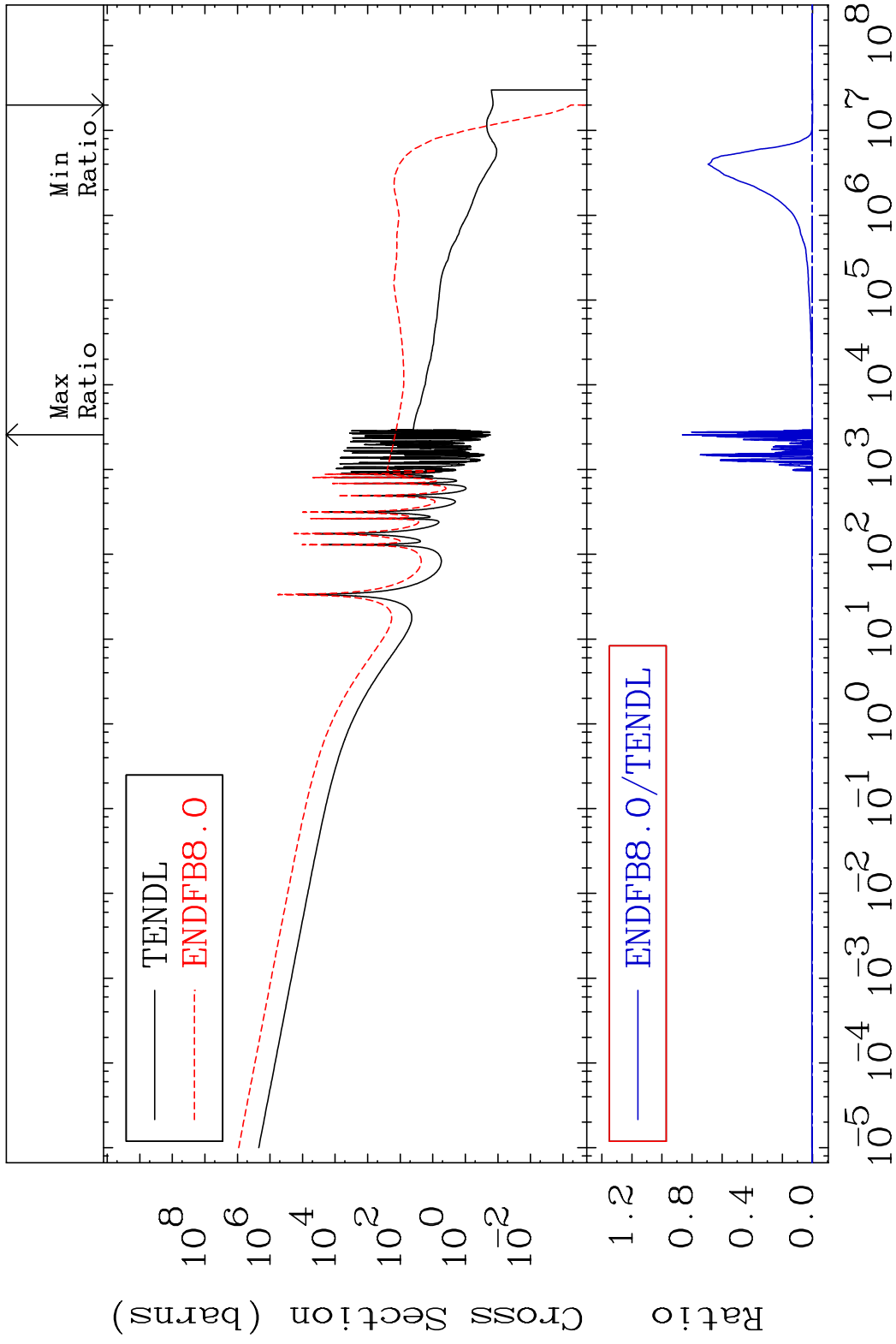
MAT 8034 Kerma fission (mt18 or mt19-20-21-38)80-Hg-199
 Cross Section -100.0 To 1443. %



35 Incident Energy (eV) 80-Hg-199

MAT 8034

Kerma capture (mt102) 80-Hg-199
Cross Section -100.0 To 9999. %

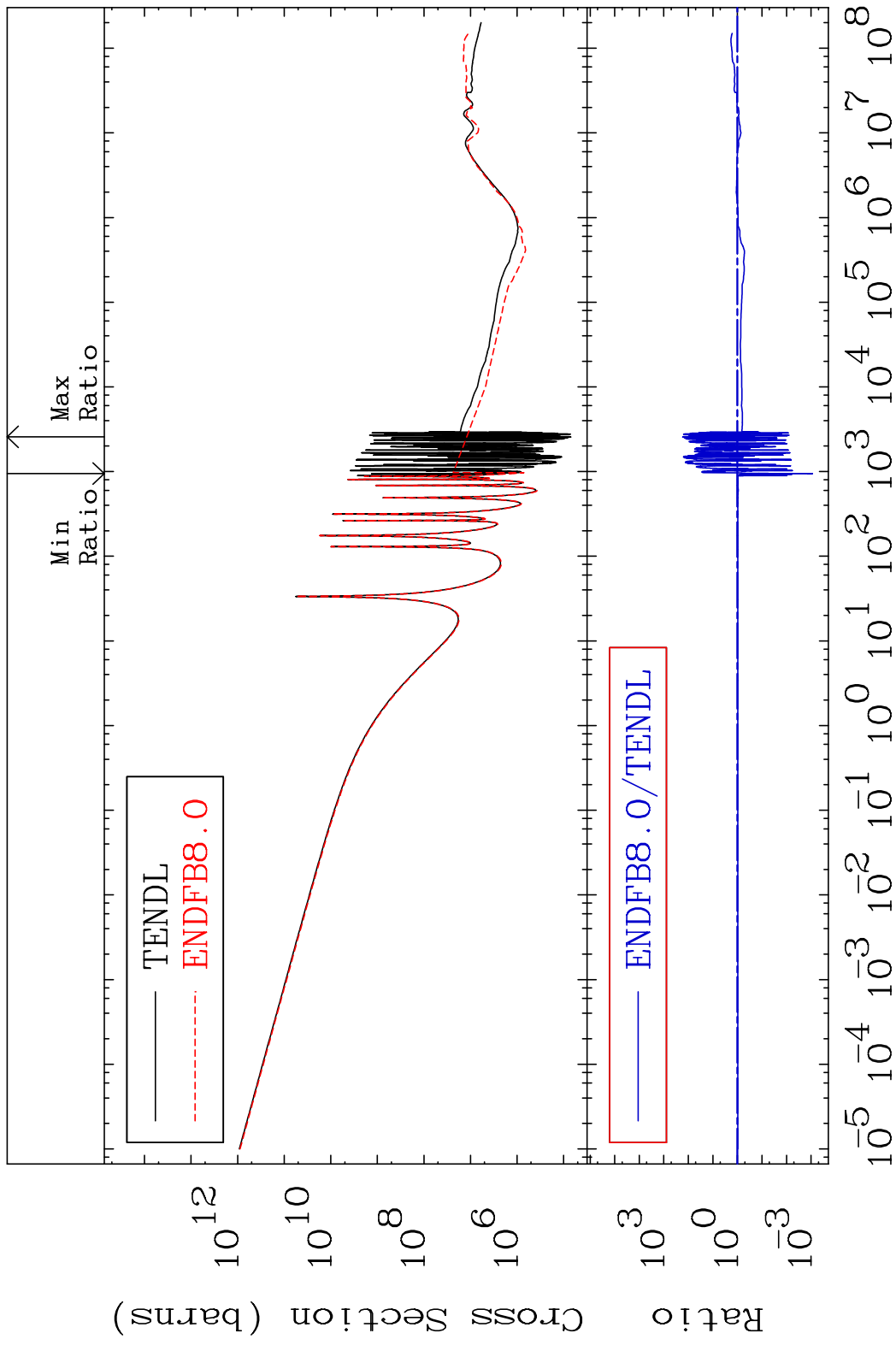


36

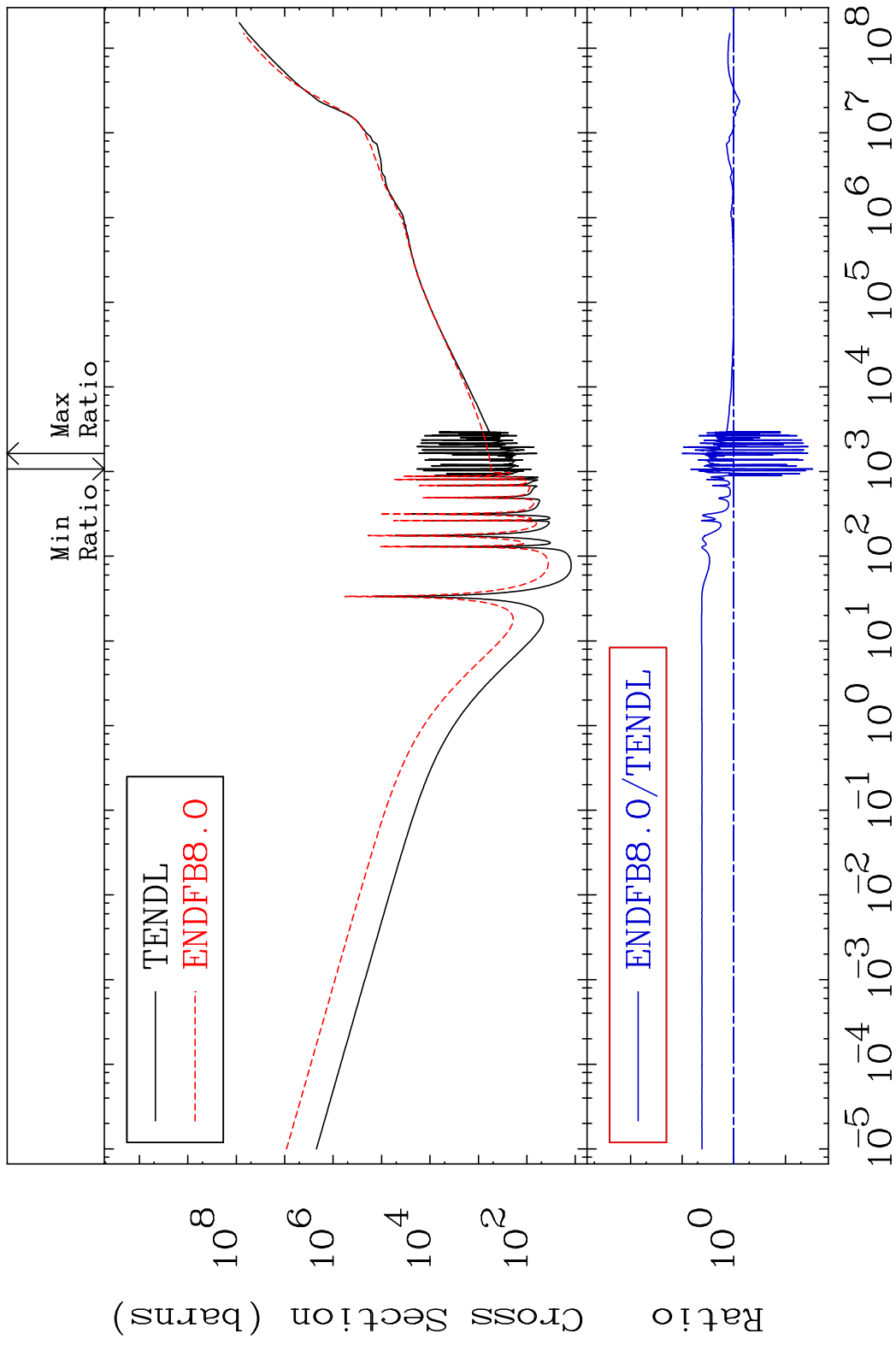
Incident Energy (eV)

80-Hg-199

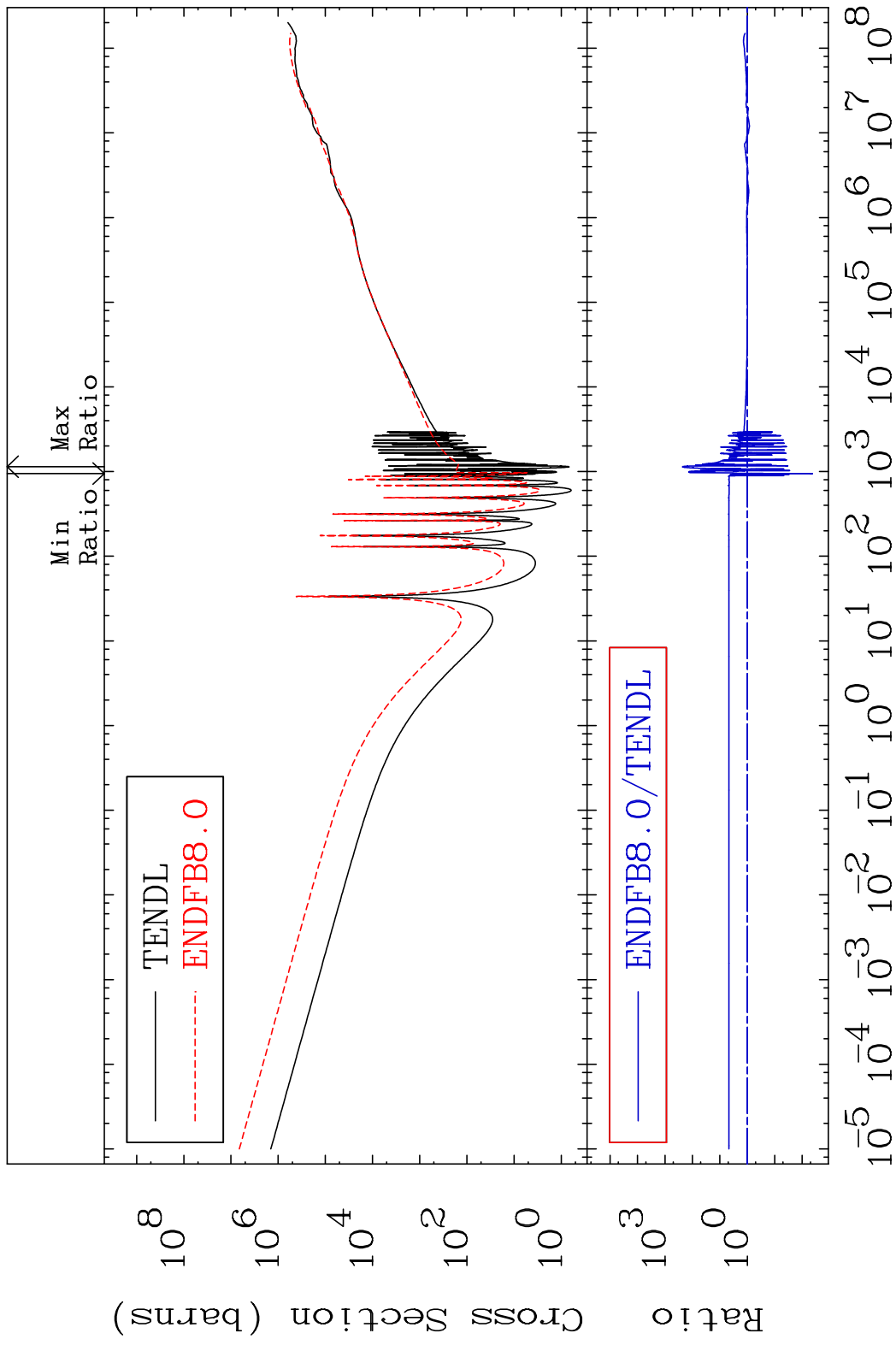
MAT 8034 Total photon (eV-barns) 80-Hg-199
 Cross Section -99.91 To 9999. %



MAT 8034 Total kinematic kerma (high limit) 80-Hg-199
 Cross Section -97.02 To 890.9 %



MAT 8034 Dpa total (eV-barns) 80-Hg-199
 Cross Section -99.58 To 9999. %



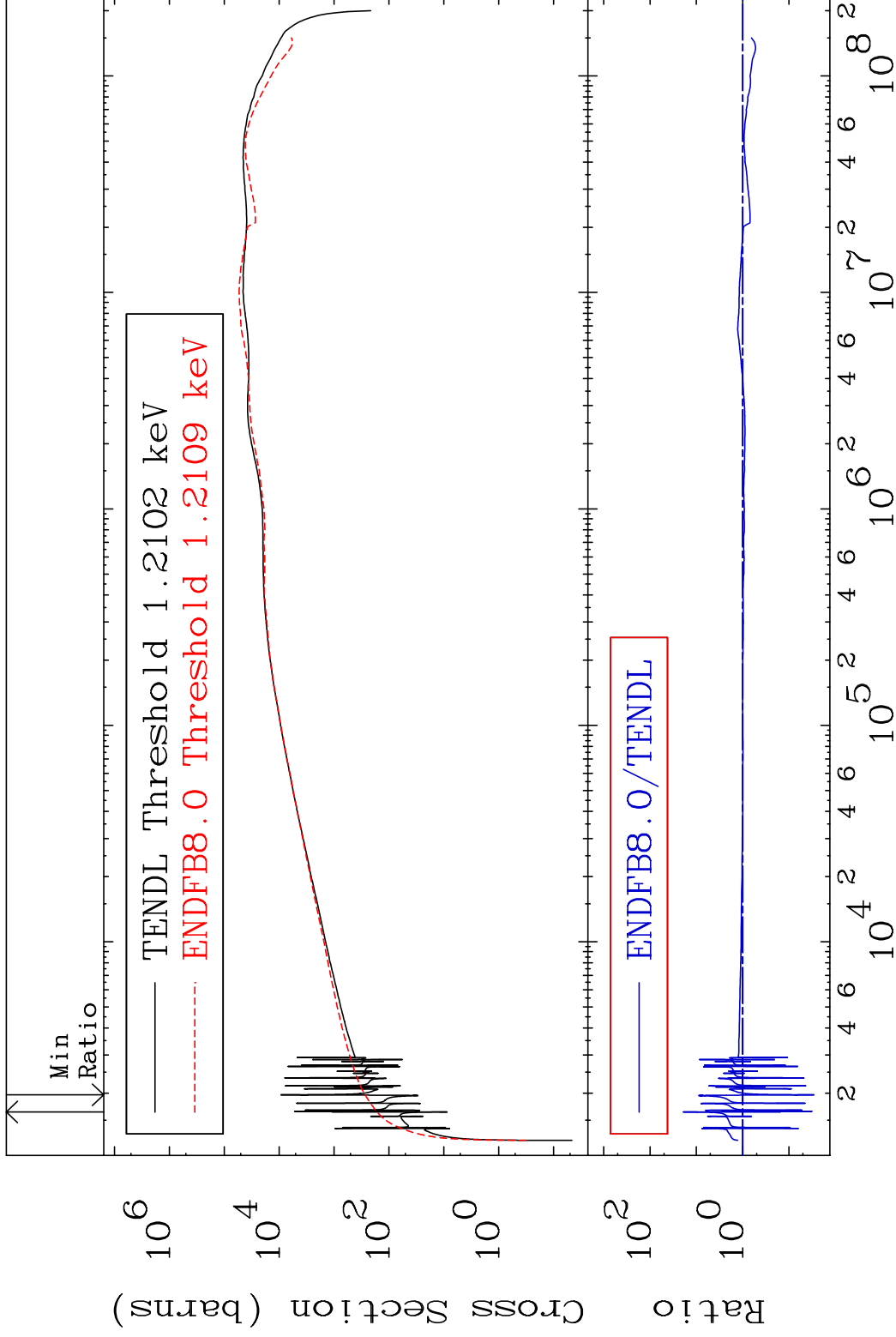
39 Incident Energy (eV) 80-Hg-199

MAT 8034

Dpa elastic (mt2)

80-Hg-199

Cross Section -97.12 To 1798. %

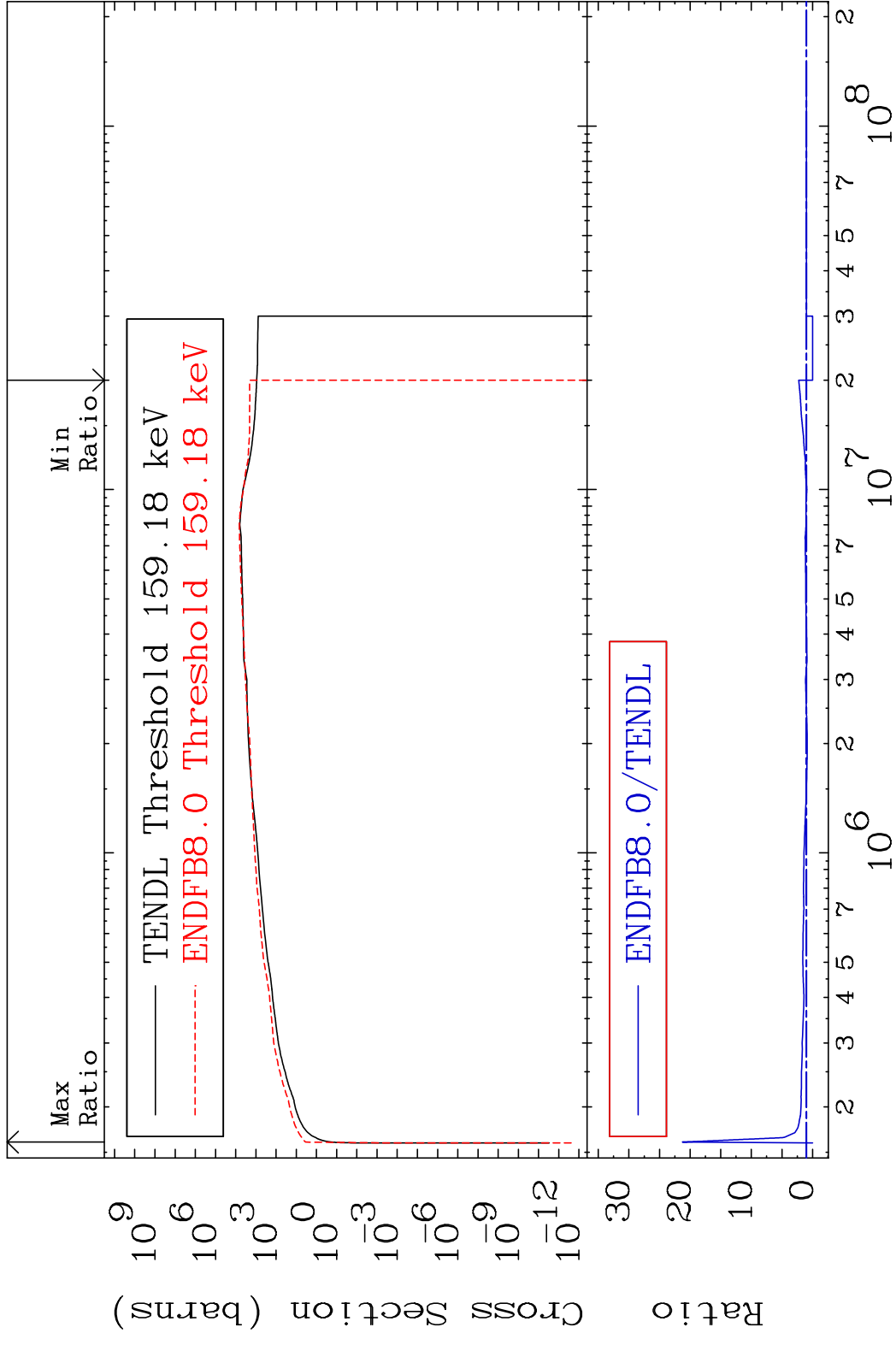


40

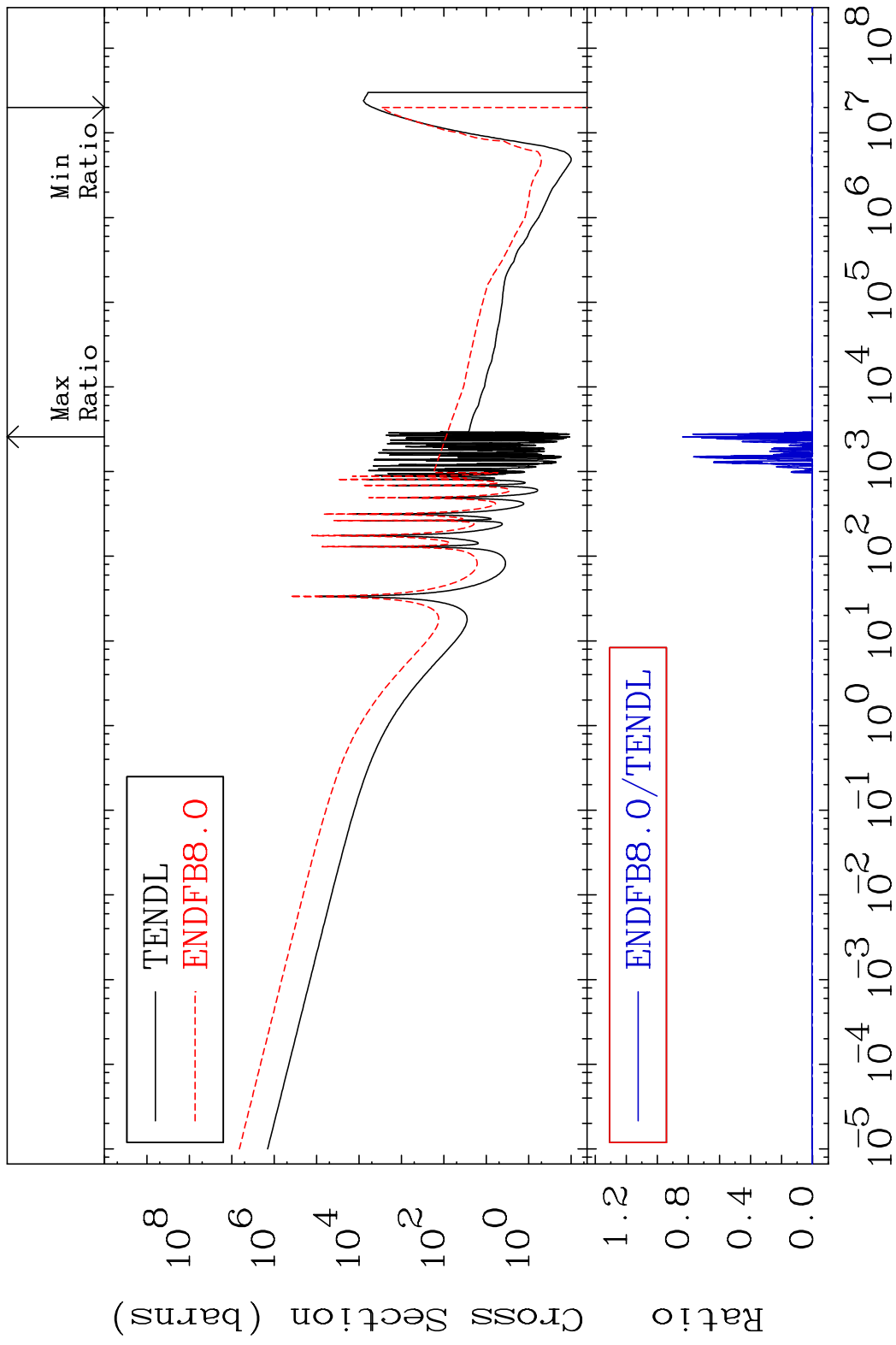
Incident Energy (eV)

80-Hg-199

MAT 8034 Dpa inelastic (mt51-91) 80-Hg-199
 Cross Section -100.0 To 2027. %



MAT 8034 Dpa disappearance (mt102 -120) 80-Hg-199
 Cross Section -100.0 To 9999. %



42 Incident Energy (eV) 80-Hg-199