

Program Complot
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

U.S.A.

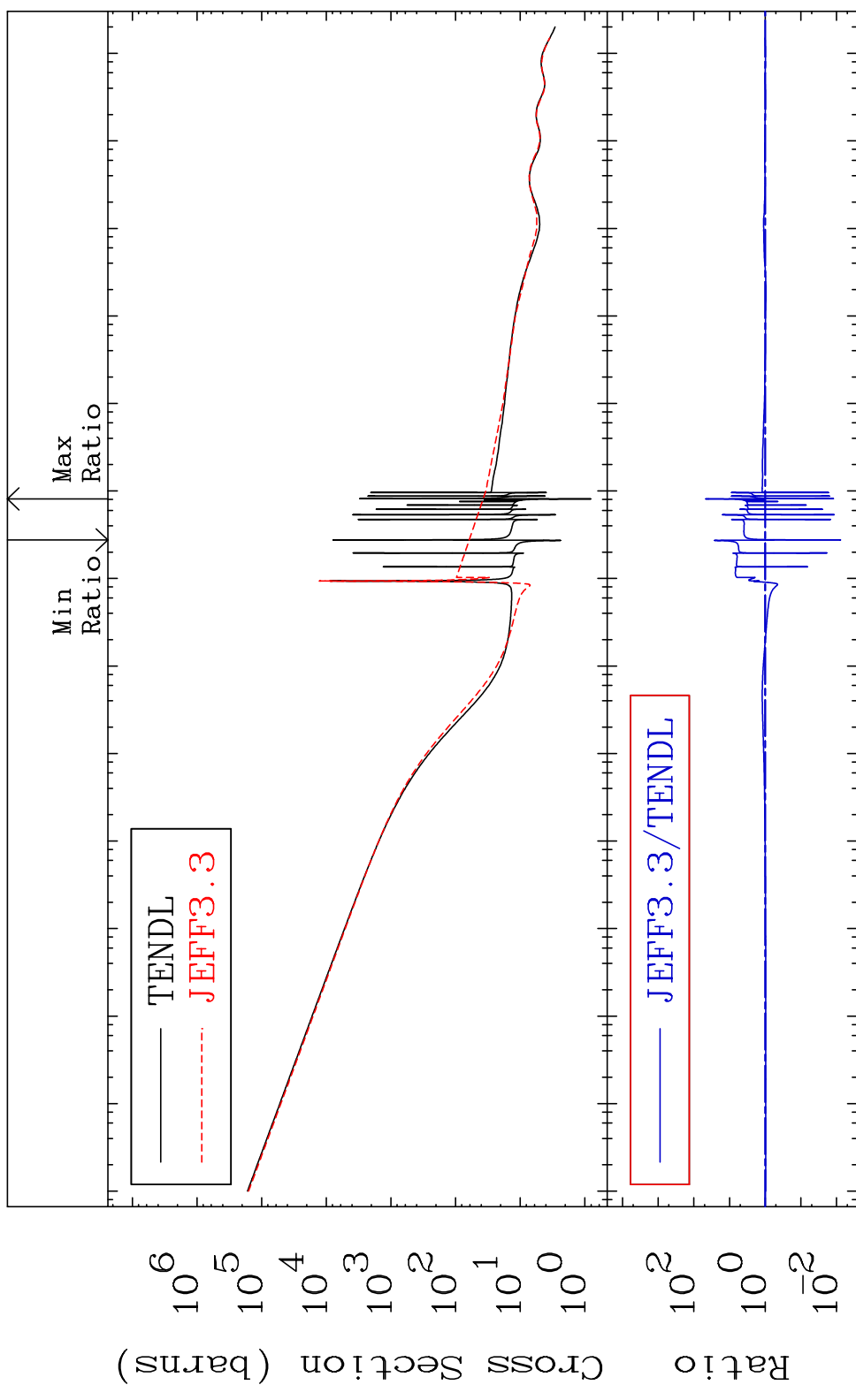
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 8025

Total Cross Section -99.22 To 4526. %
80-Hg-196



Ratio
10²
10⁰
10⁻²

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

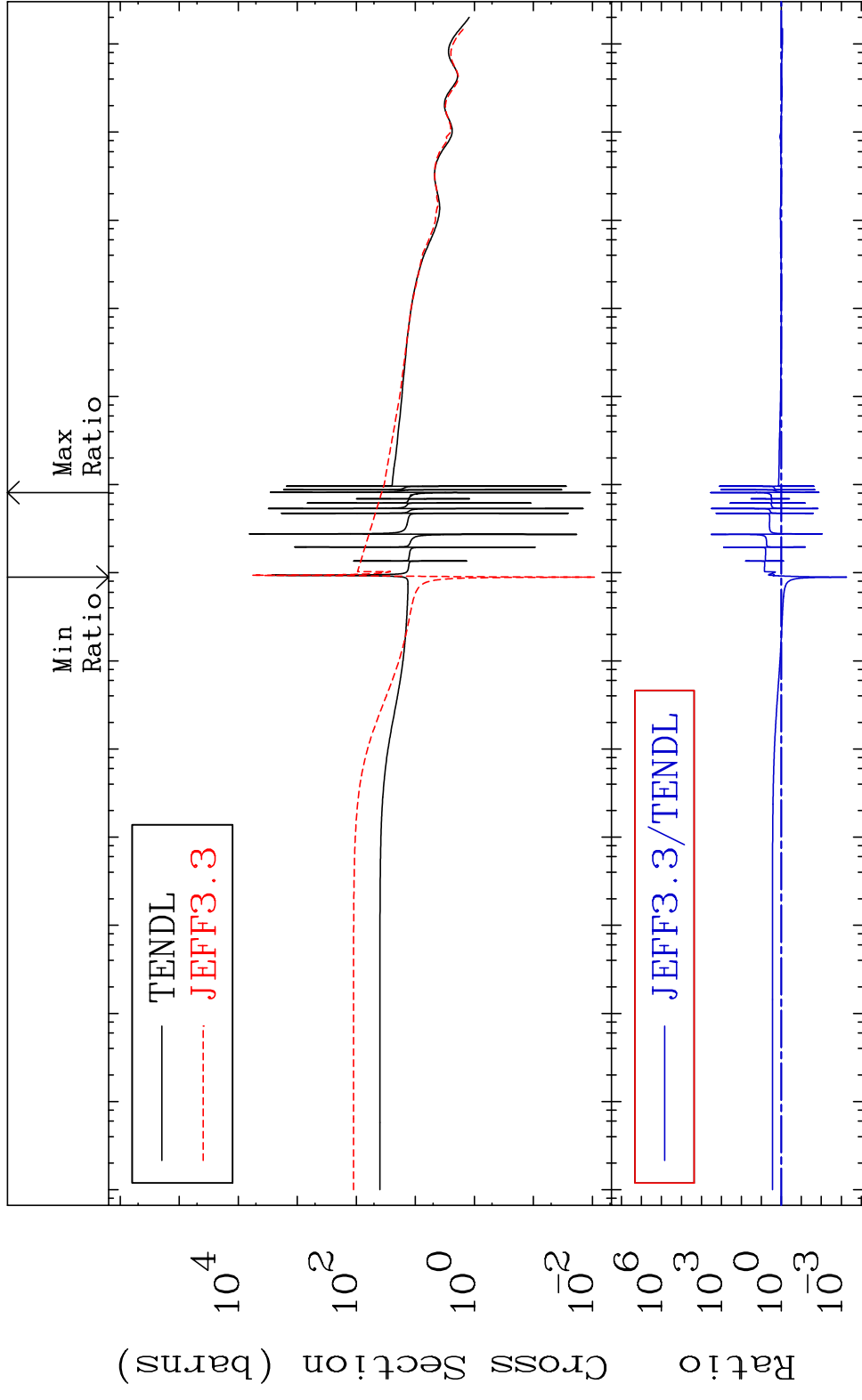
1 Incident Energy (eV) 80-Hg-196

MAT 8025

Elastic

80-Hg-196

Cross Section -99.94 To 9999. %



TENDL
JEFF3.3

JEFF3.3/TENDL

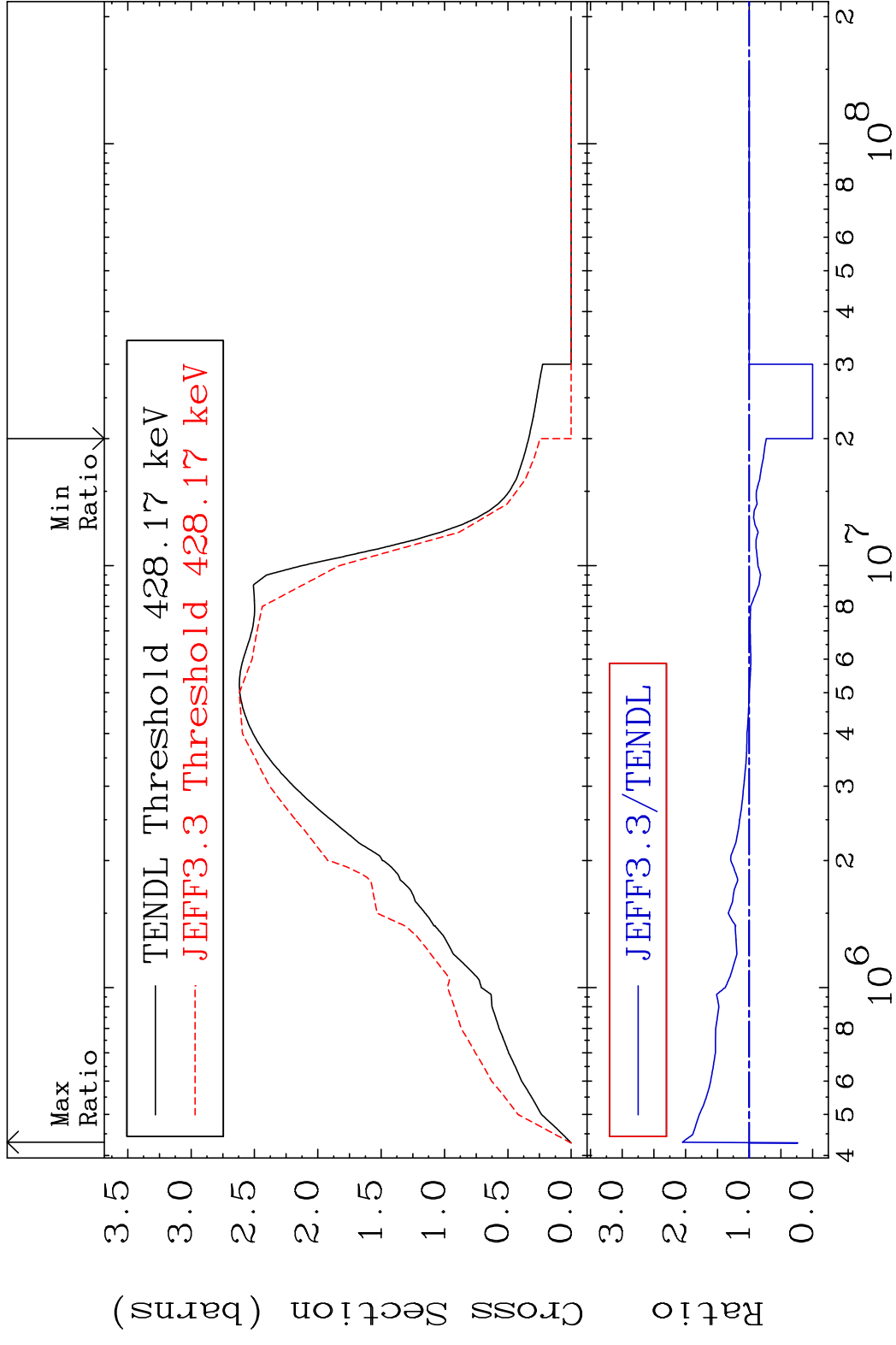
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

2

Incident Energy (eV)

80-Hg-196

MAT 8025 Inelastic 80-Hg-196
 Cross Section -100.0 To 105.3 %



3 Incident Energy (eV) 80-Hg-196

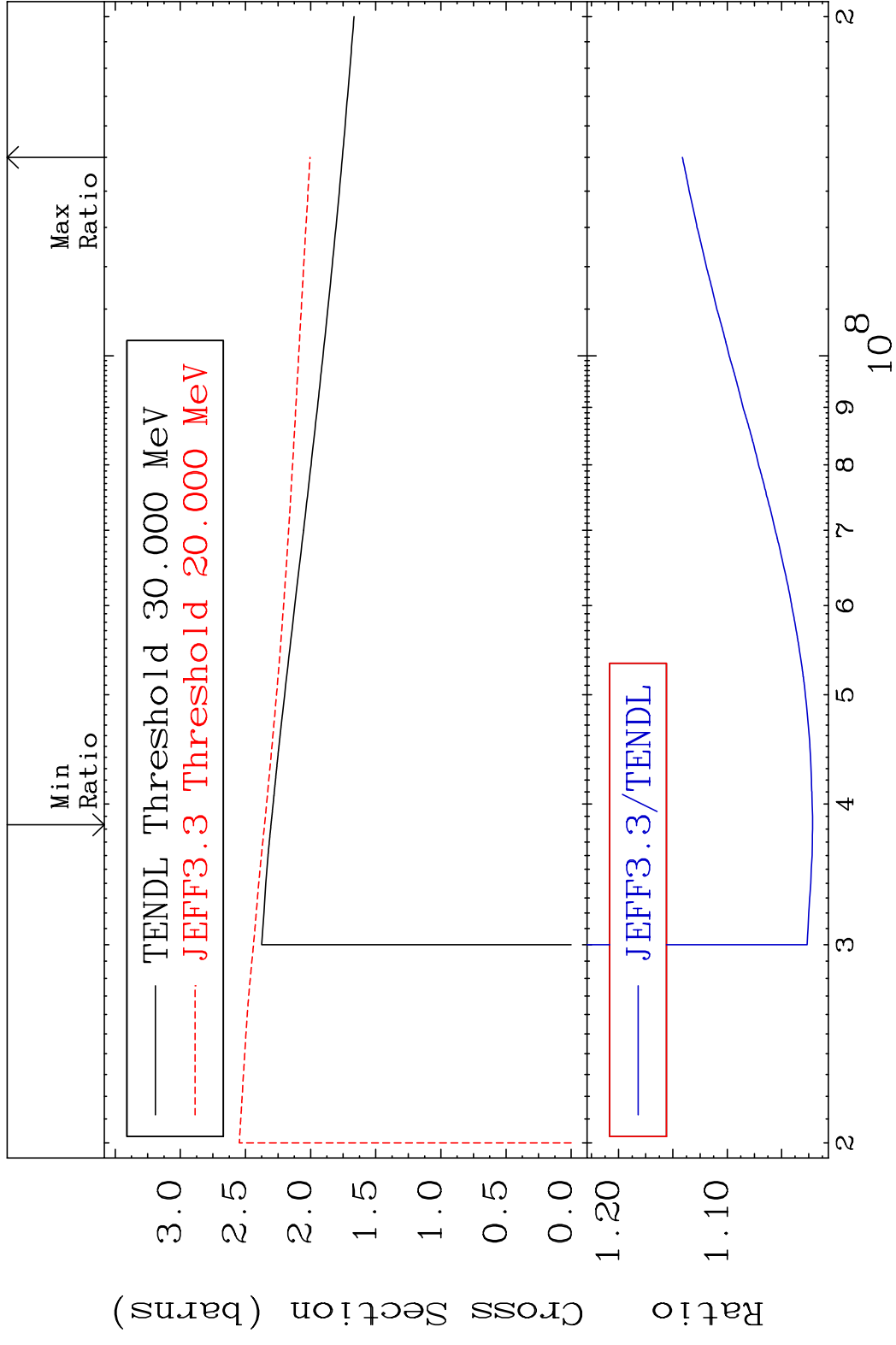
MAT 8025

(n, remainder)

80-Hg-196

Cross Section 2.148

To 14.13 %



4

Incident Energy (eV)

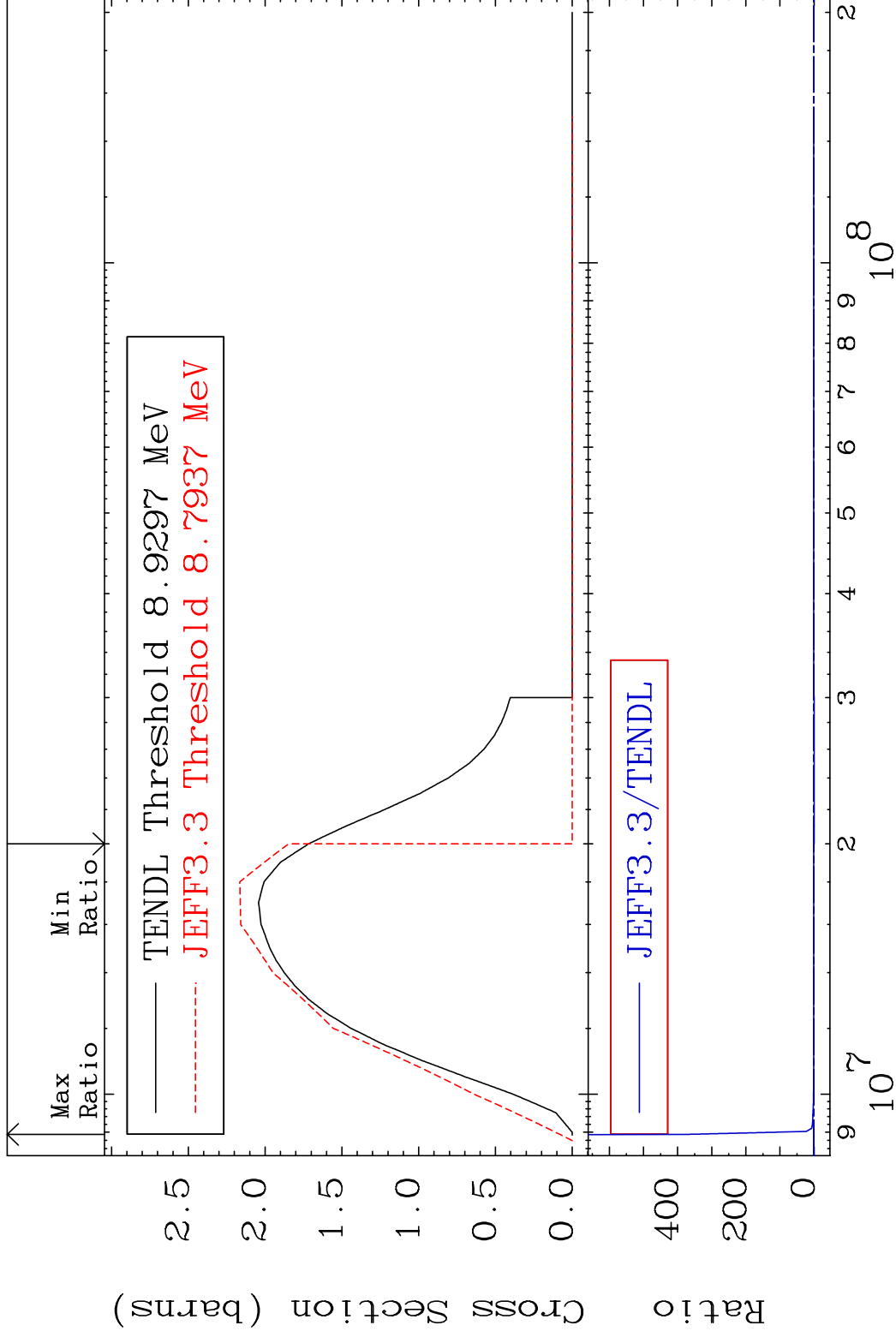
80-Hg-196

MAT 8025

(n,2n)

80-Hg-196

Cross Section -100.0 To 9999. %



5

Incident Energy (eV)

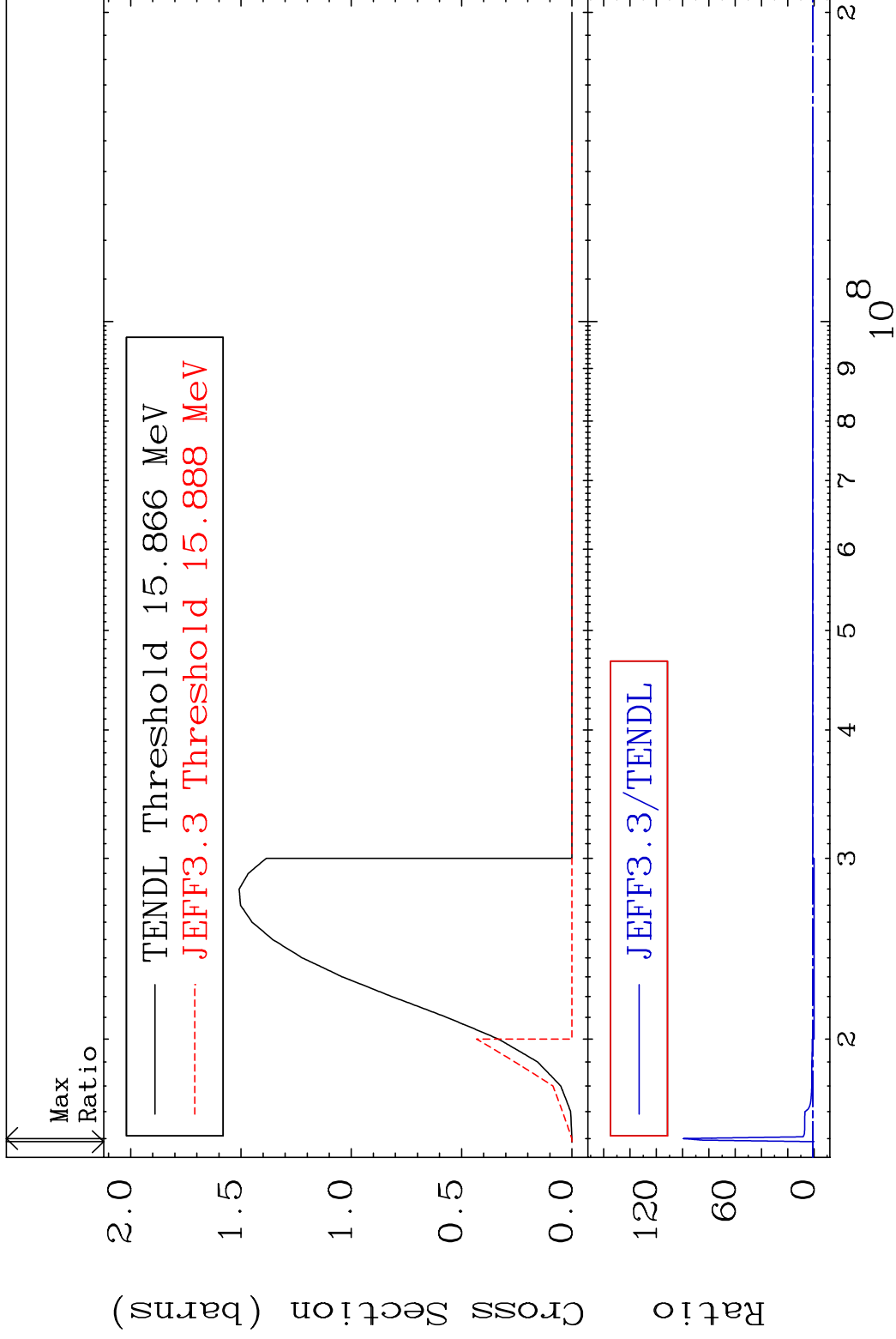
80-Hg-196

MAT 8025

(n,3n)

80-Hg-196

Cross Section -100.0 To 9836. %



6

Incident Energy (eV)

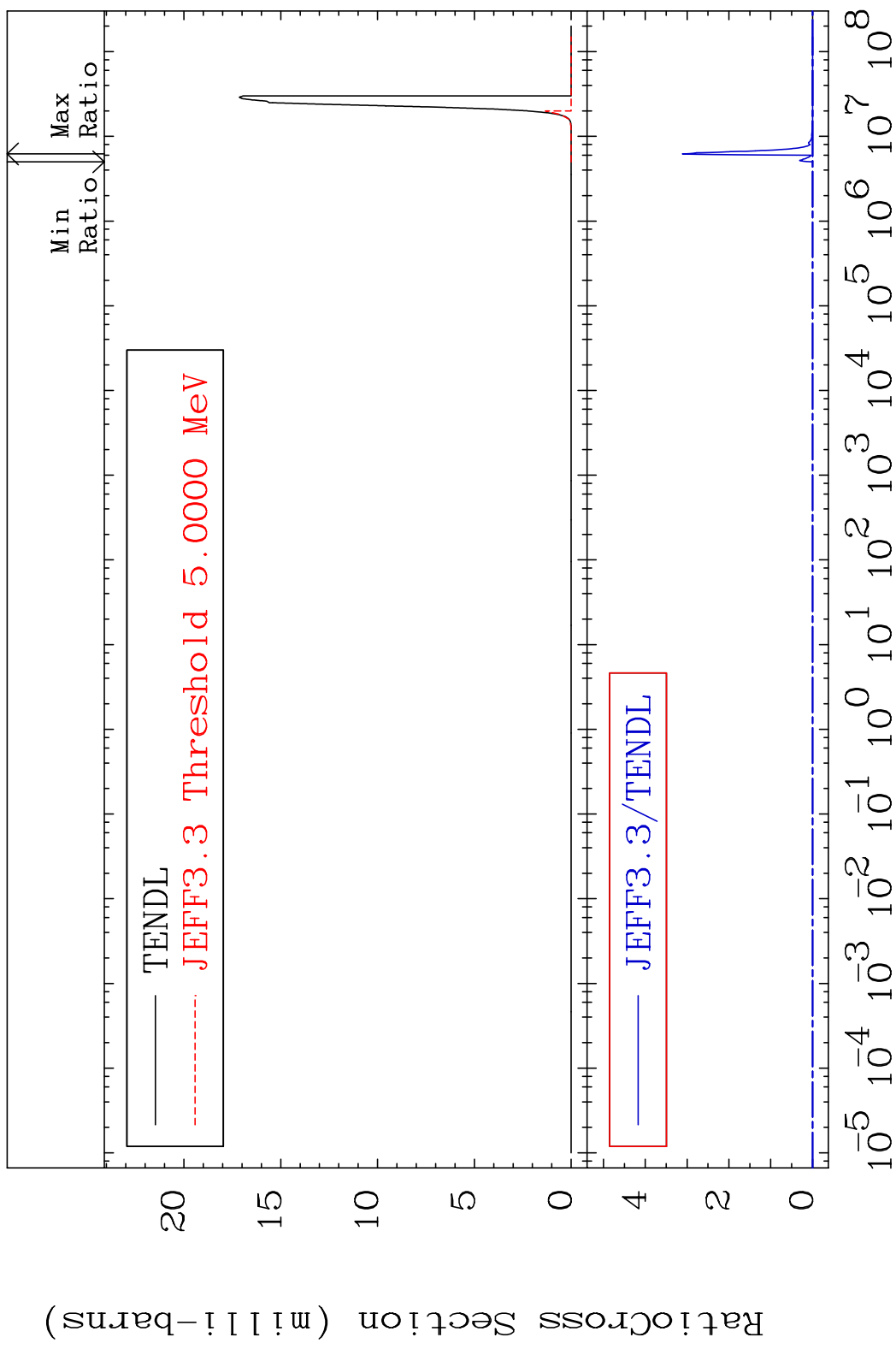
80-Hg-196

MAT 8025

(n, n') α

80-Hg-196

Cross Section -100.0 To 9999. %

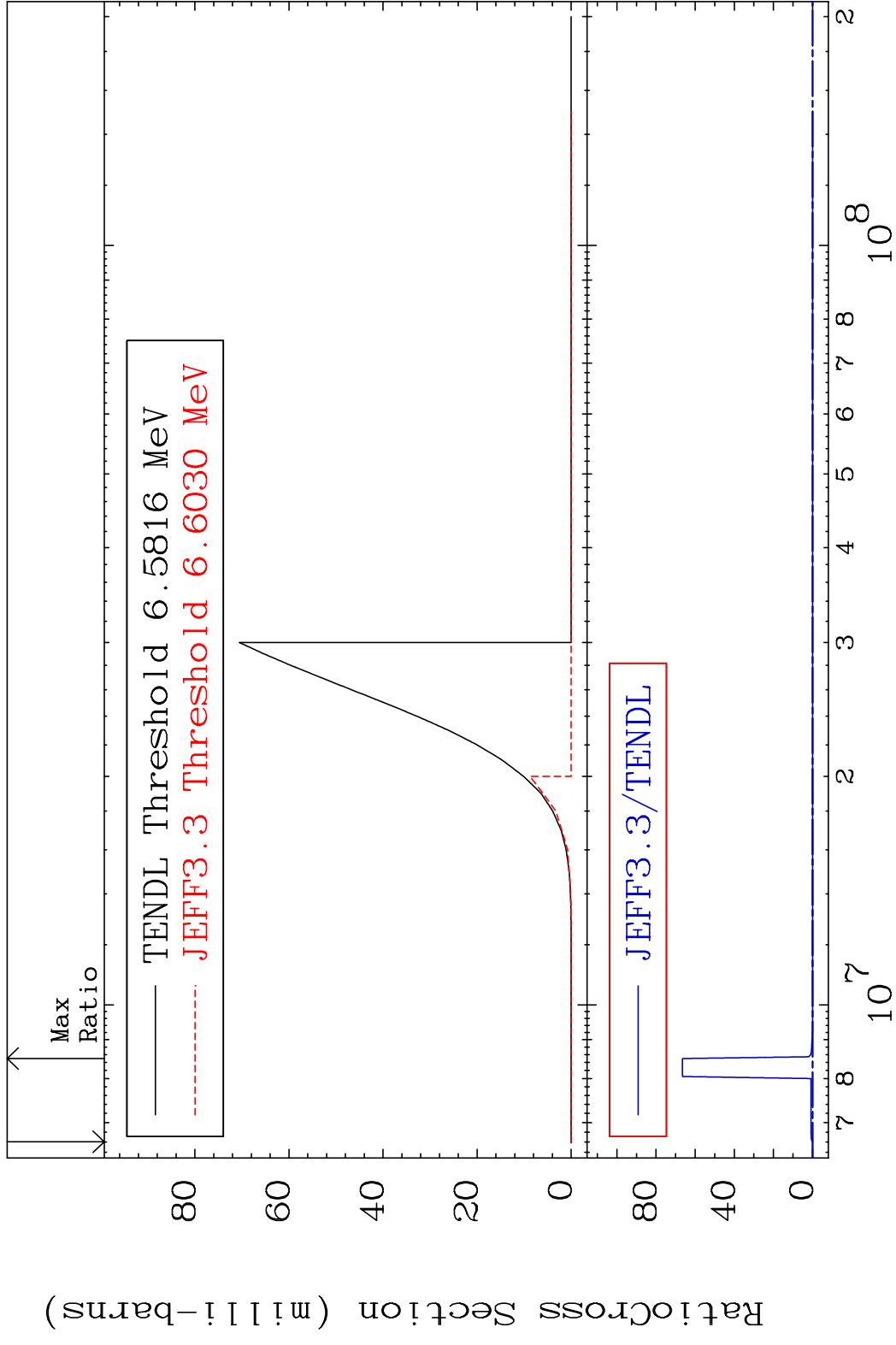


7

Incident Energy (eV)

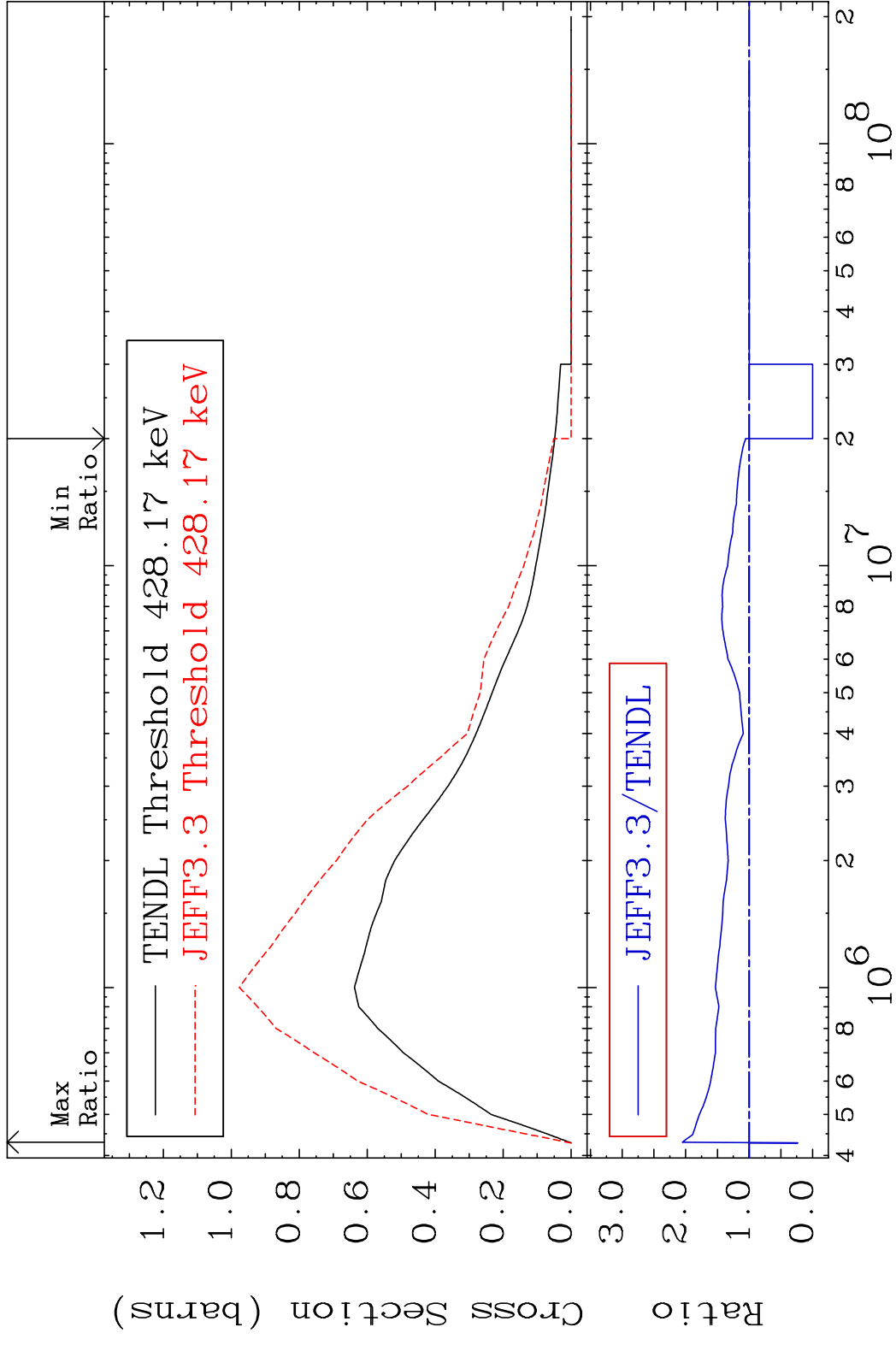
80-Hg-196

MAT 8025 (n, n') p 80-Hg-196
 Cross Section -100.0 To 9999. %

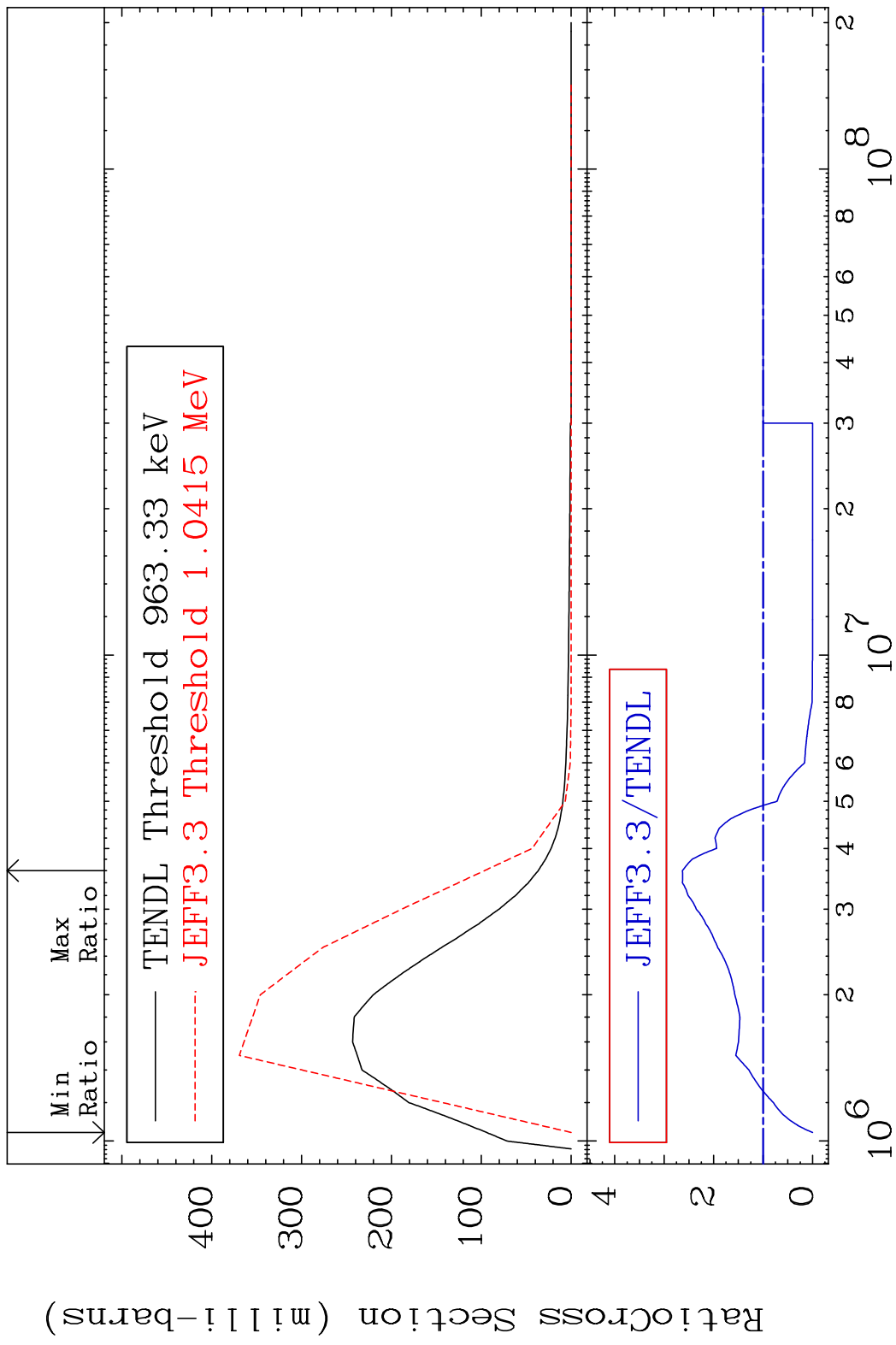


8 8 7 8 10 7 10 8 2

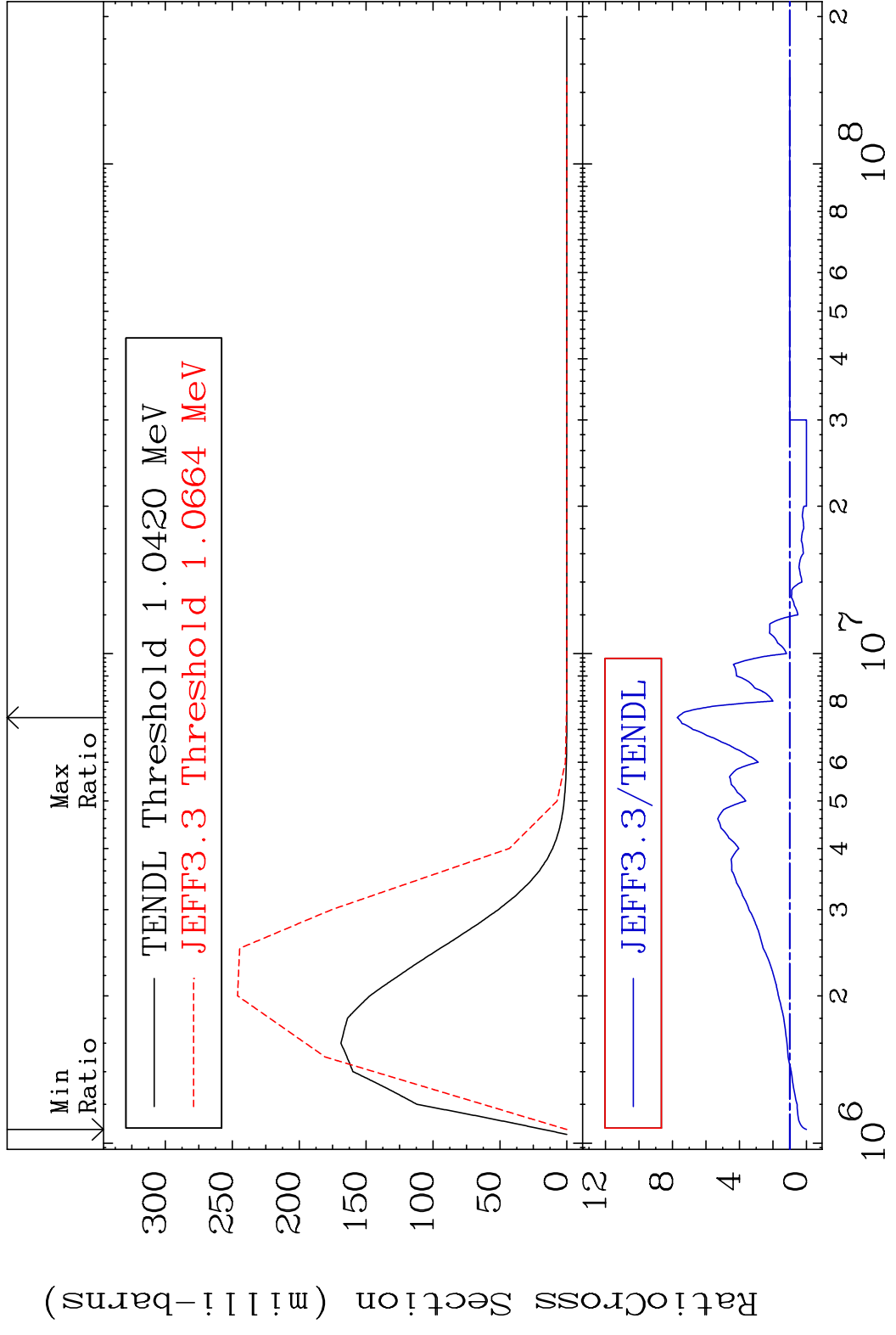
MAT 8025 MT= 51 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 105.3 %



MAT 8025 MT= 52 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 163.3 %

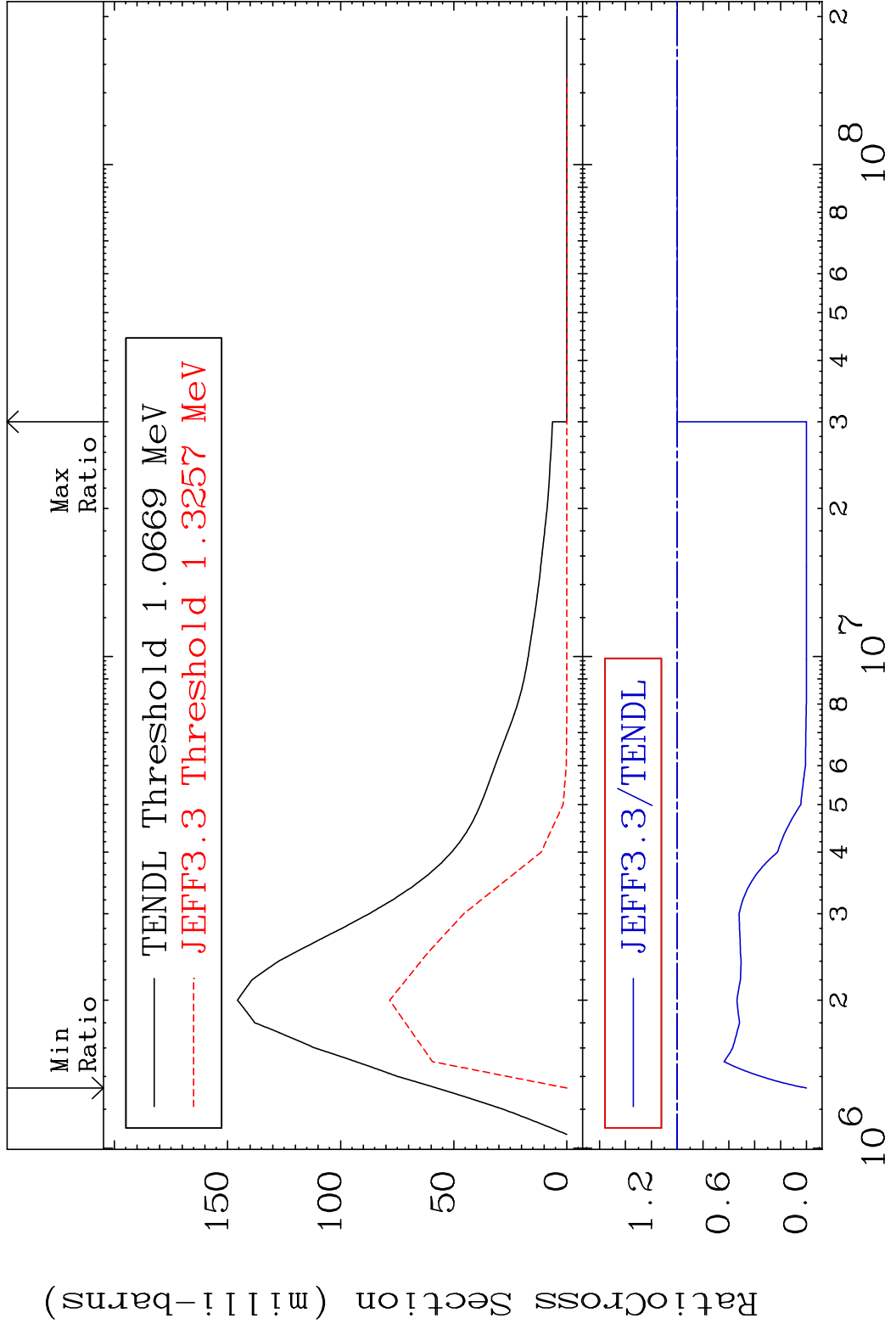


MAT 8025 MT= 53 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 672.1 %

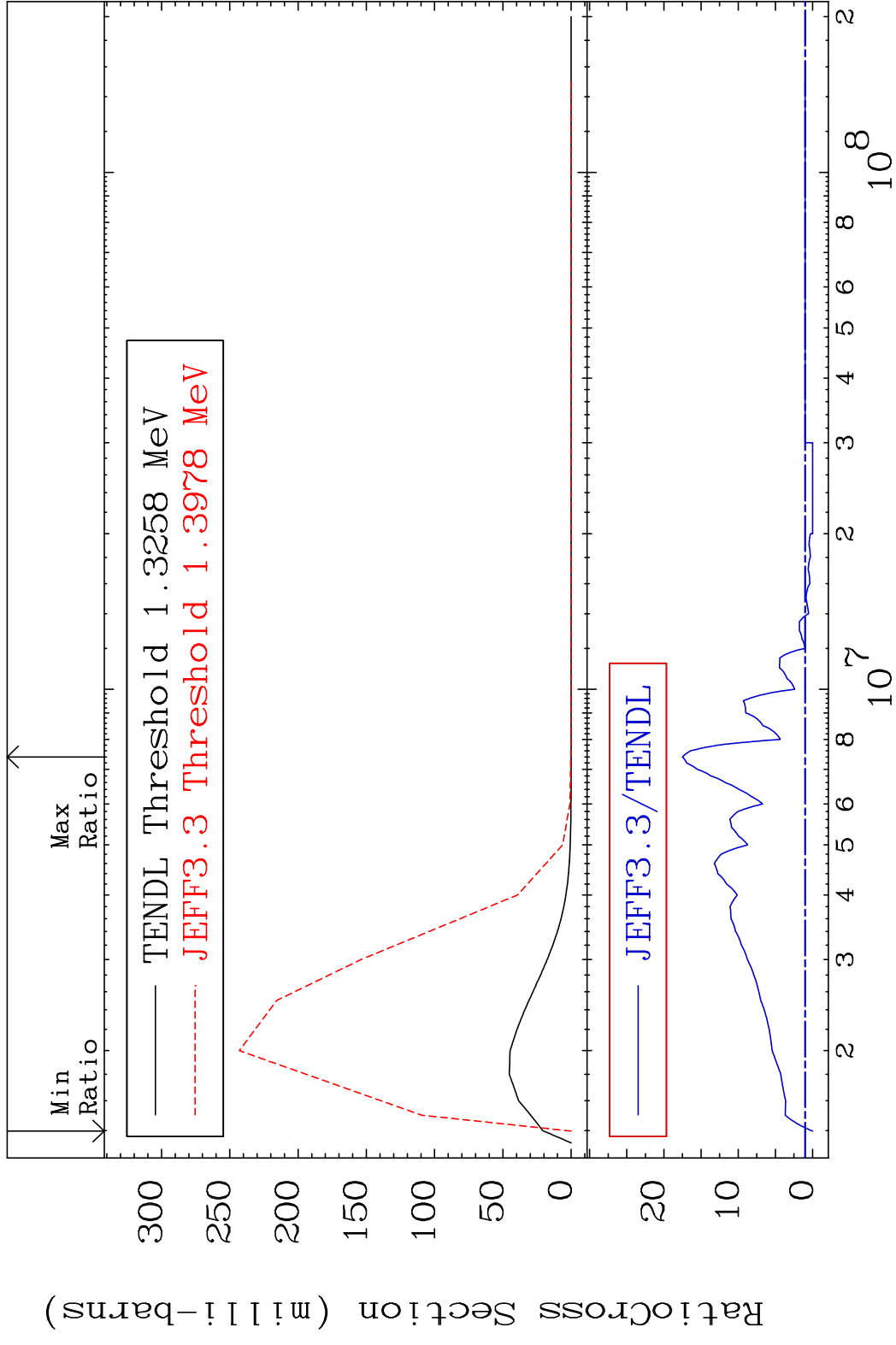


11 Incident Energy (eV) 80-Hg-196

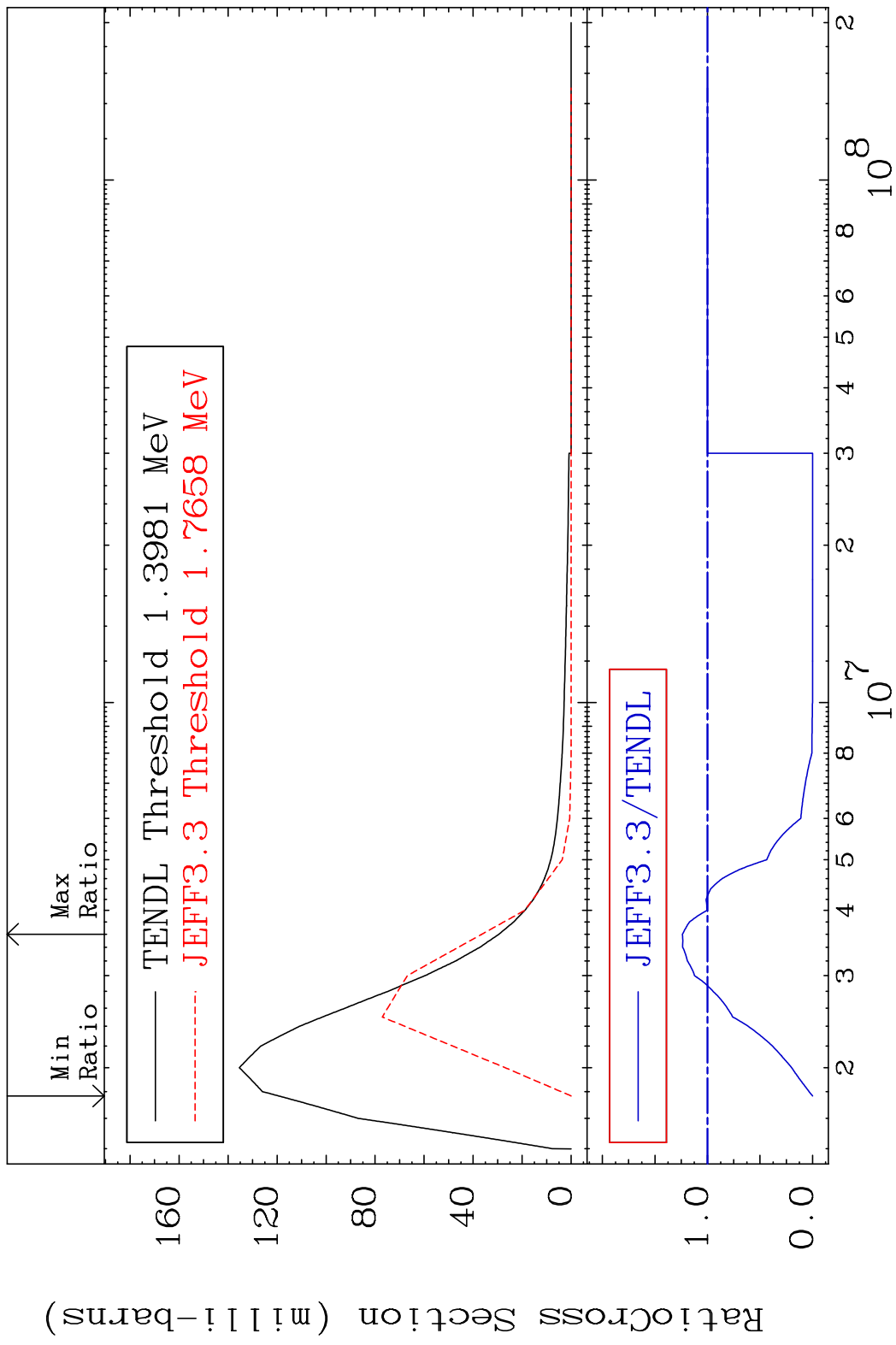
MAT 8025 MT= 54 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 0.000 %



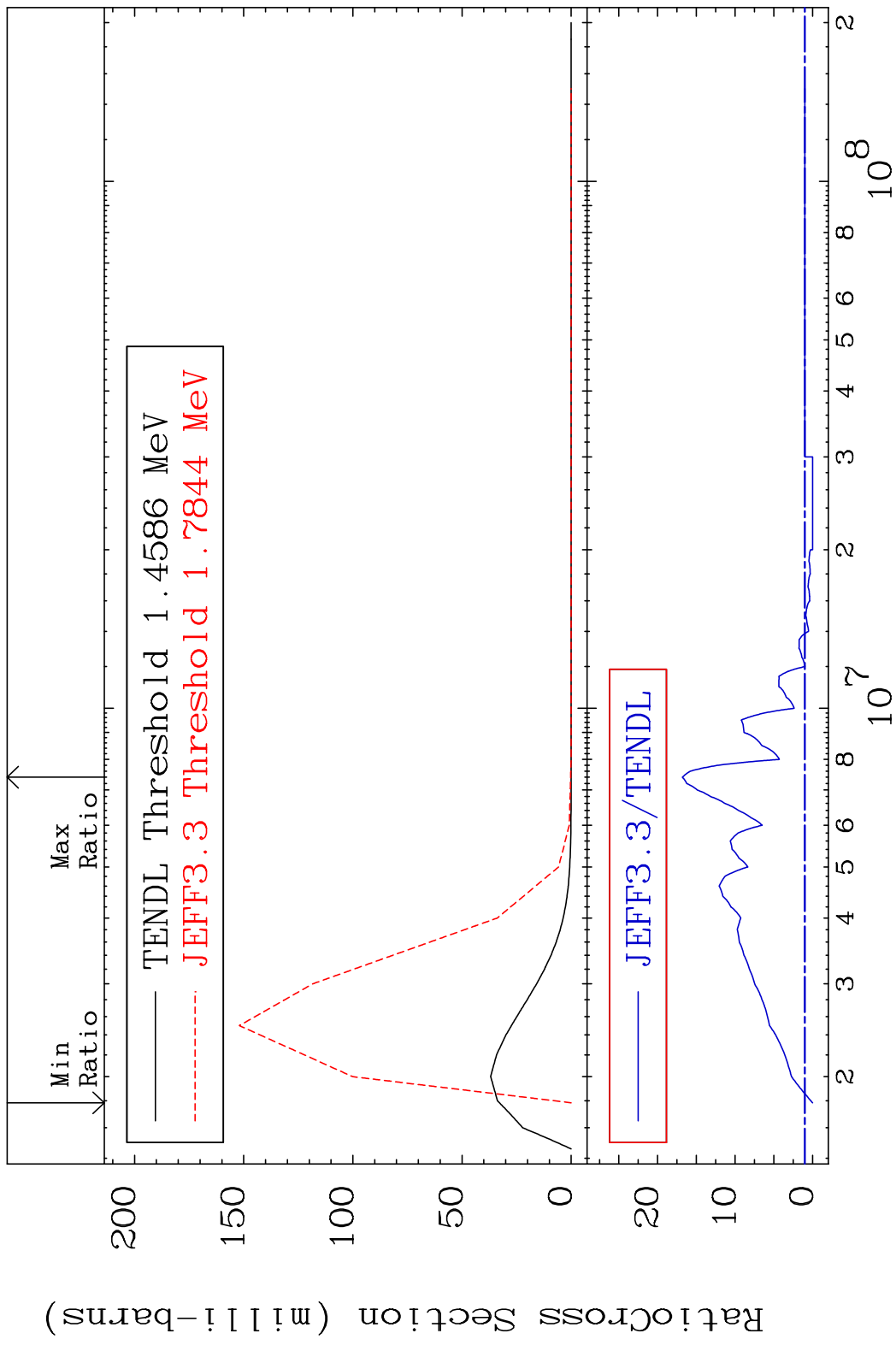
MAT 8025 MT= 55 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 1652. %



MAT 8025 MT= 56 (n,n') Level 80-Hg-196
 Cross Section -100.0 To 23.92 %

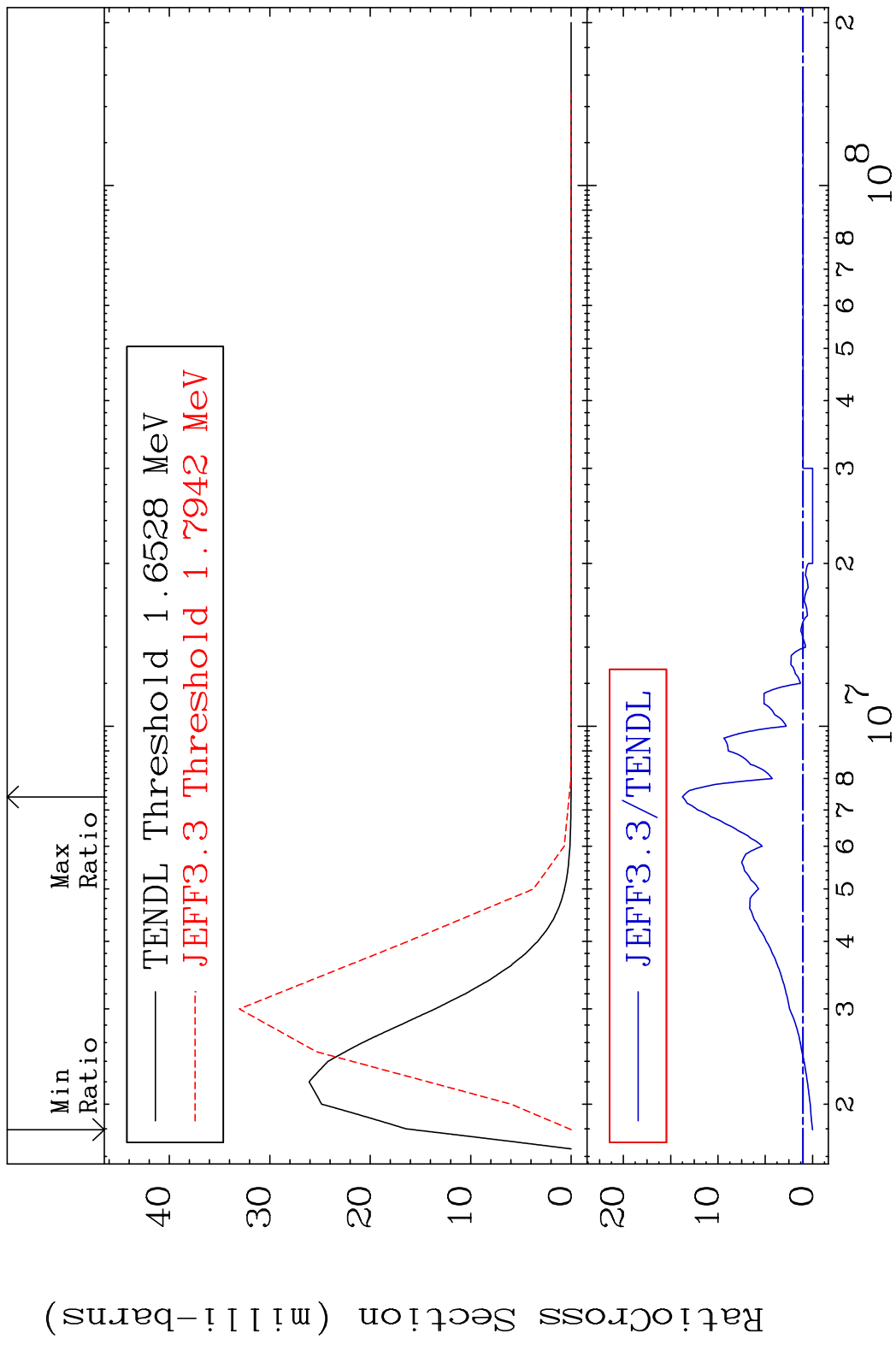


MAT 8025 MT= 57 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 1581. %

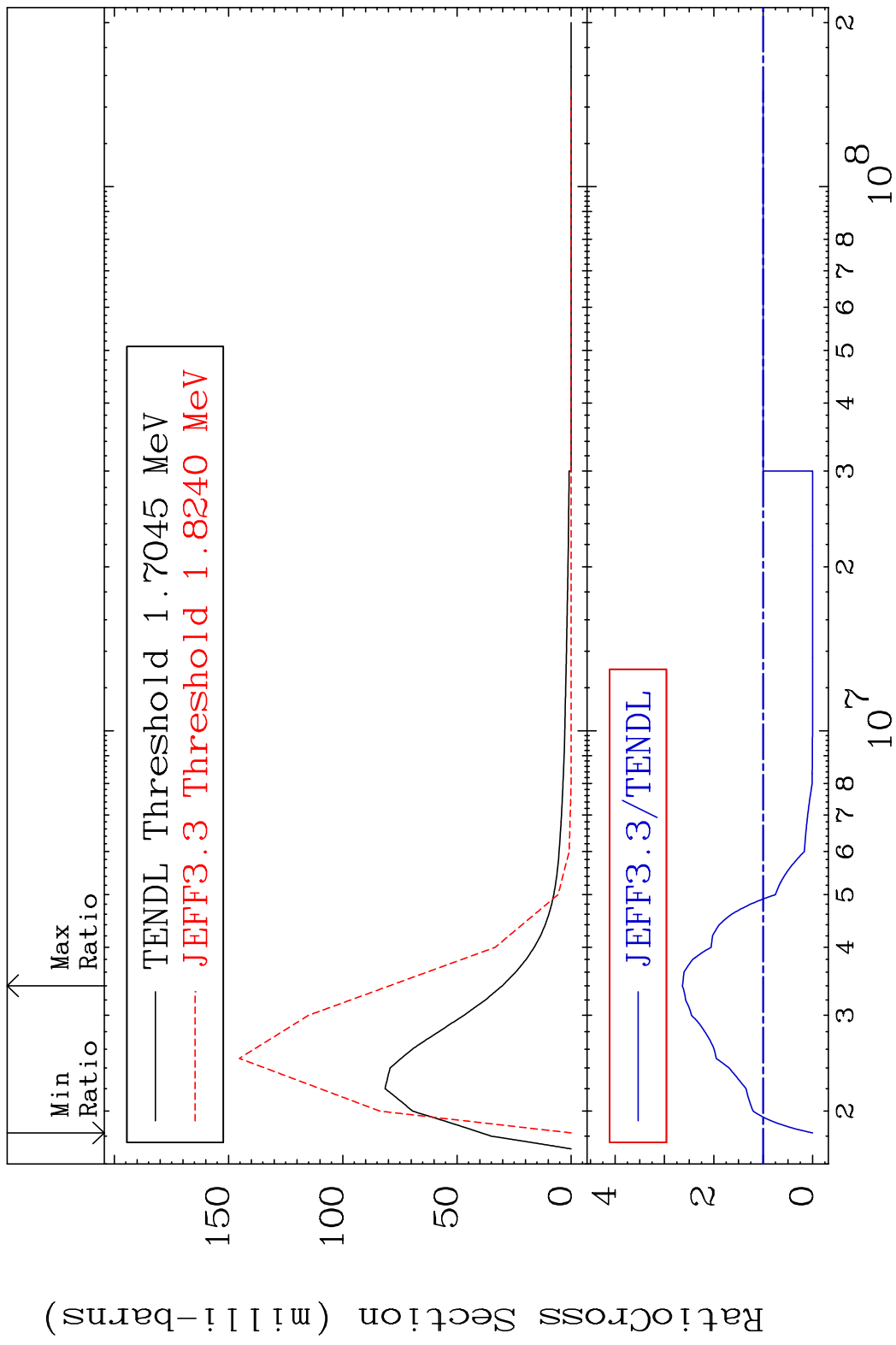


15 80-Hg-196

MAT 8025 MT= 58 (n,n') Level 80-Hg-196
 Cross Section -100.0 To 1276. %

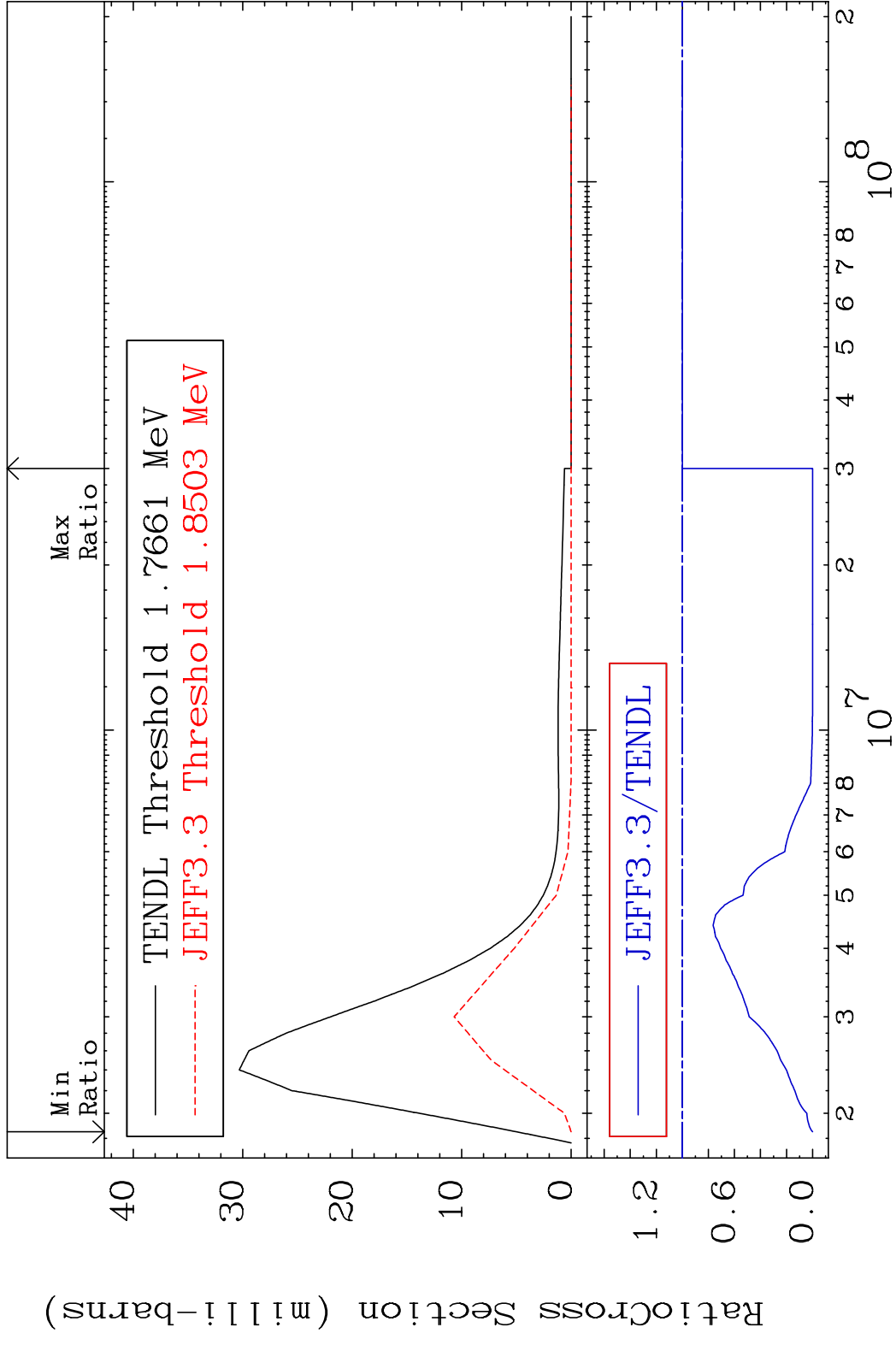


MAT 8025 MT= 59 (n,n') Level 80-Hg-196
 Cross Section -100.0 To 163.8 %

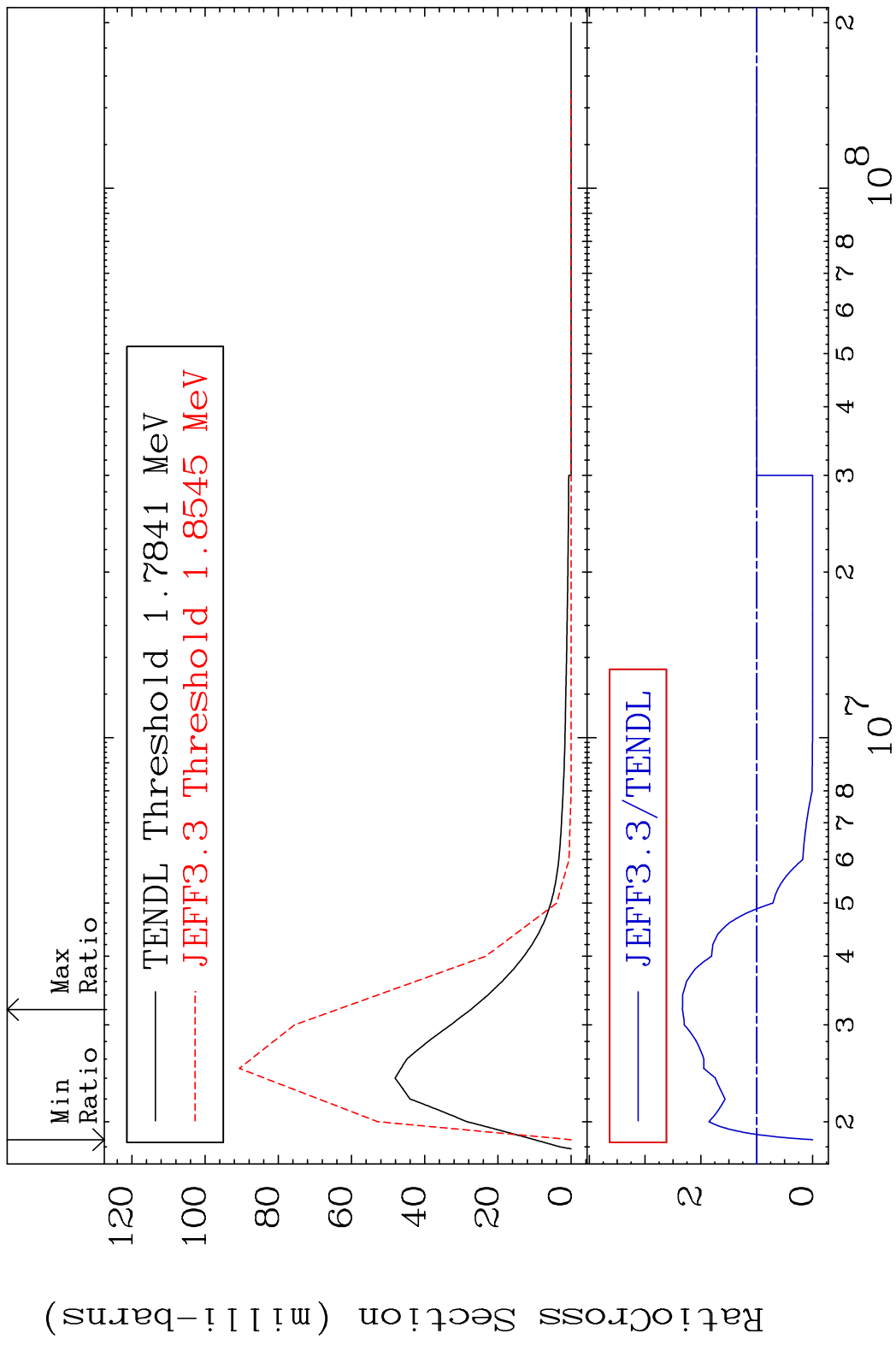


17 80-Hg-196

MAT 8025 MT= 60 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 0.000 %

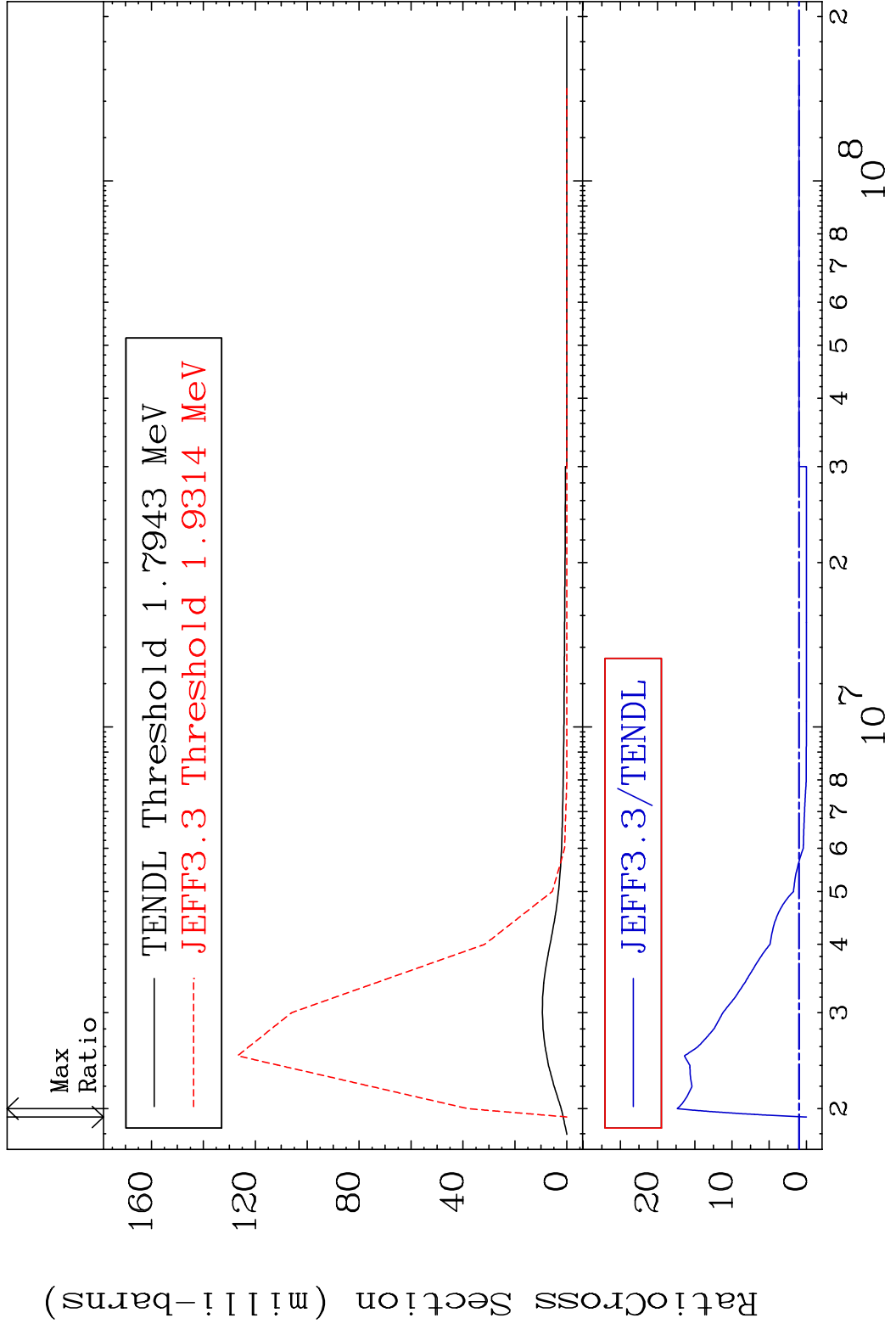


MAT 8025 MT= 61 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 133.2 %



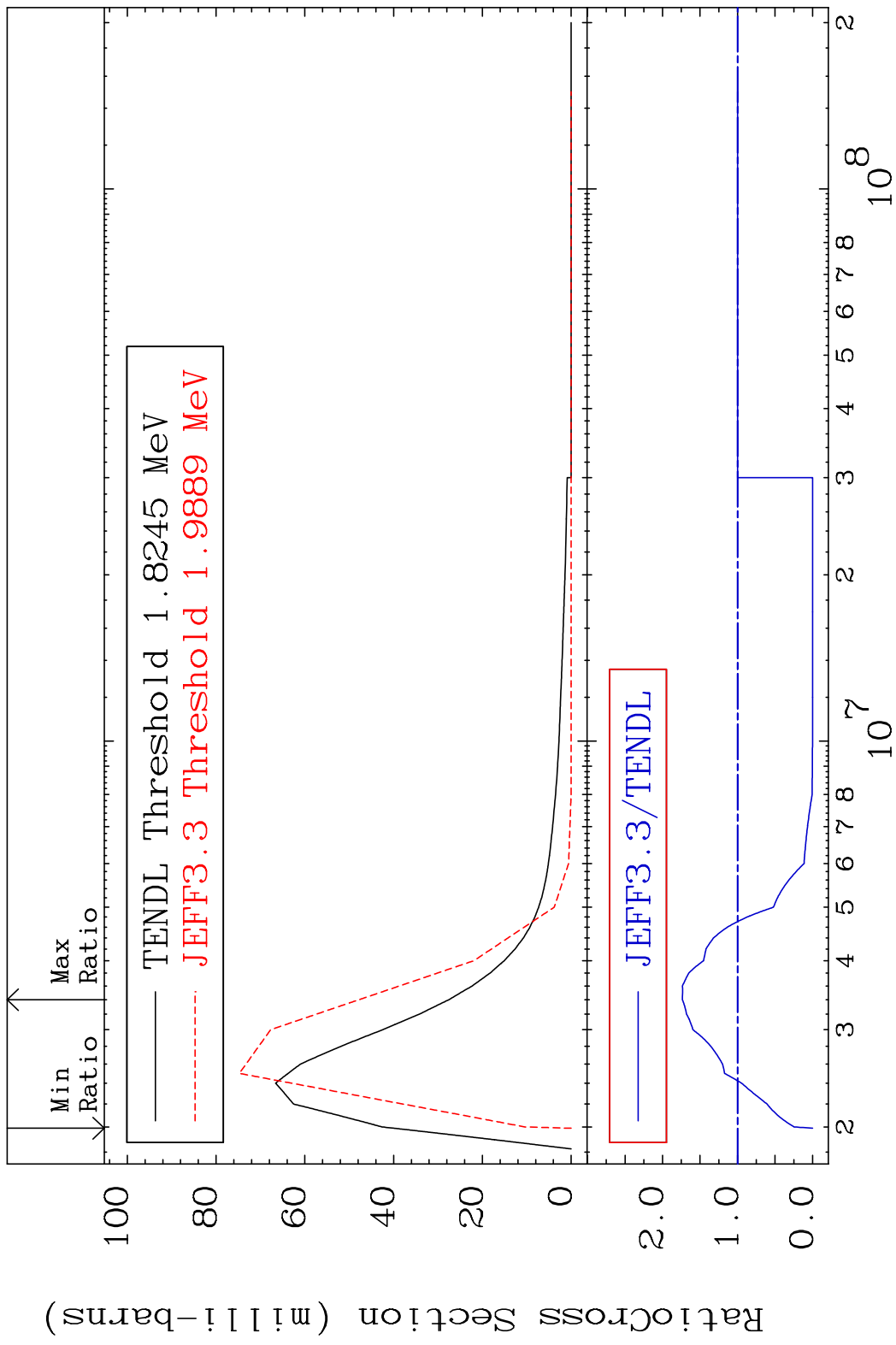
19 80-Hg-196

MAT 8025 MT= 62 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 1636. %

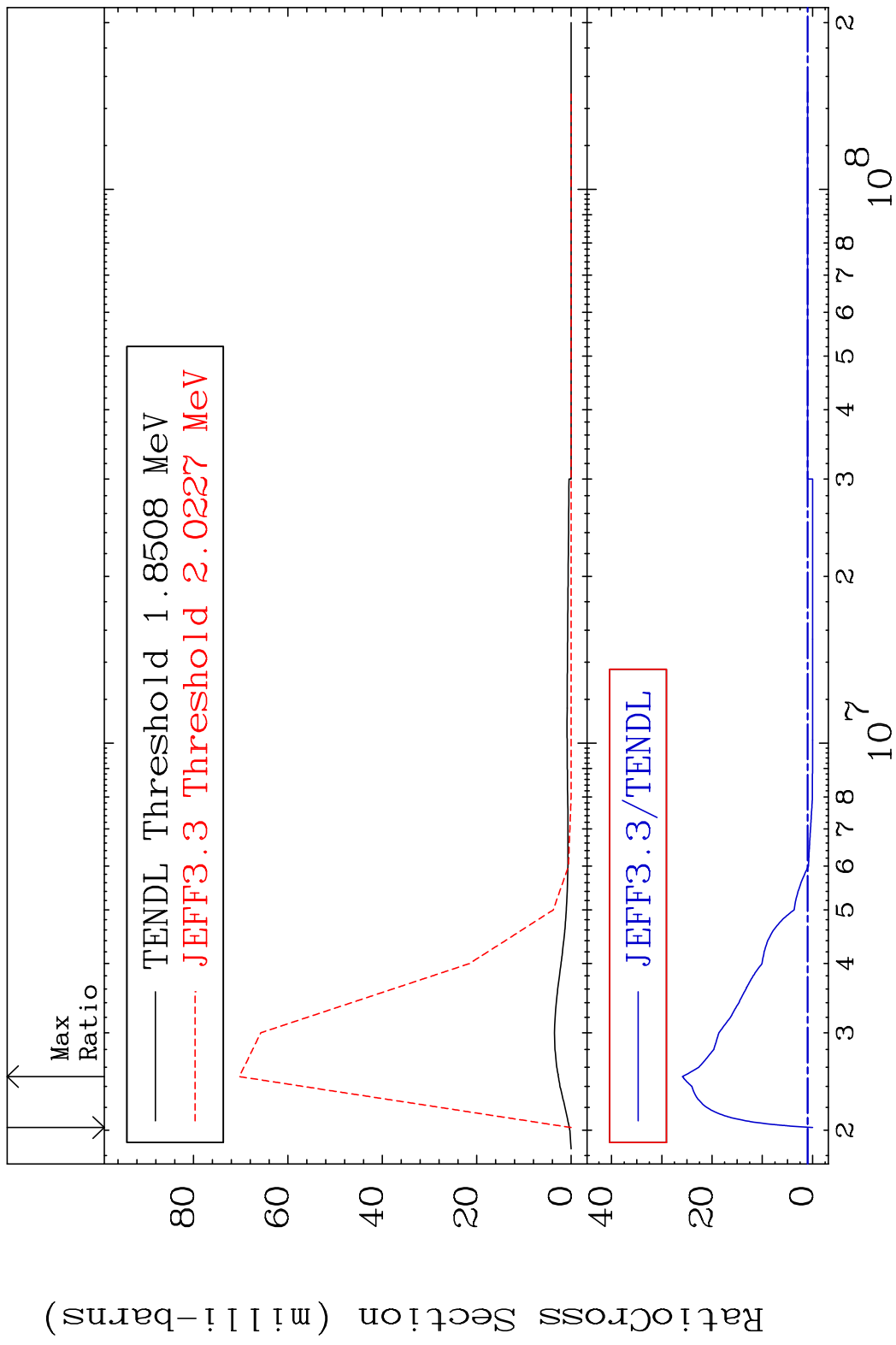


20 Incident Energy (eV) 80-Hg-196

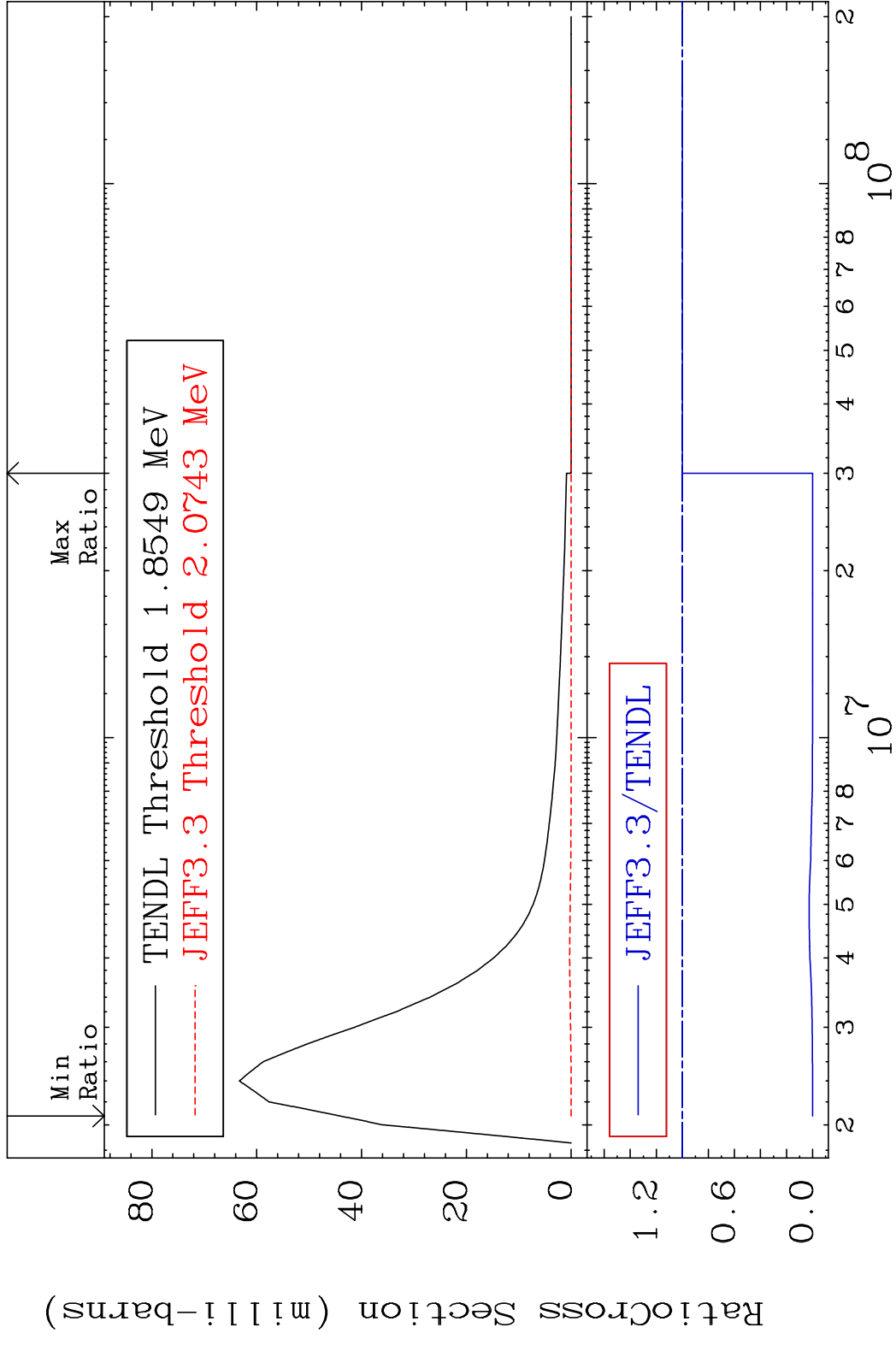
MAT 8025 MT= 63 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 73.58 %



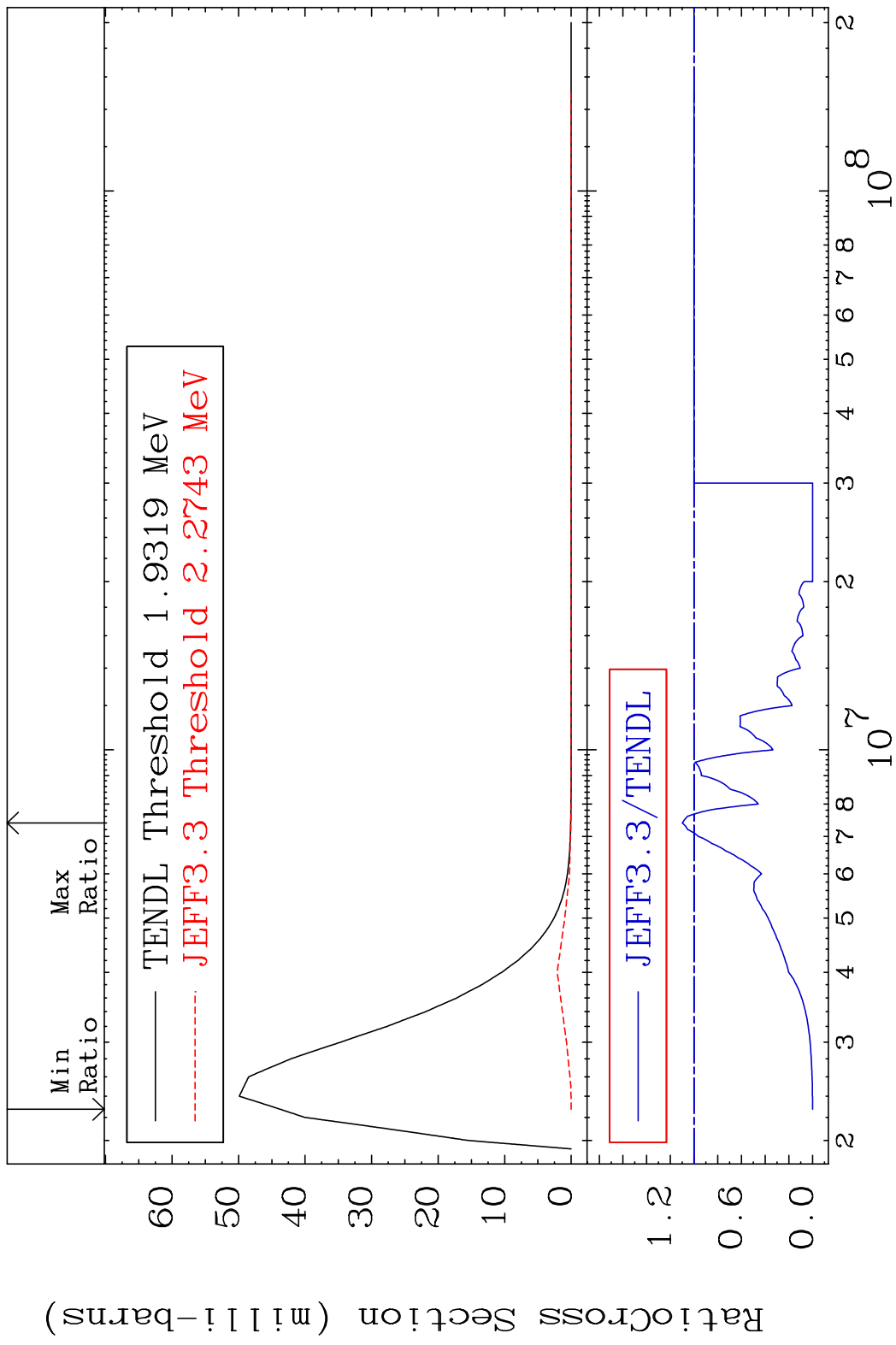
MAT 8025 MT= 64 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 2491. %



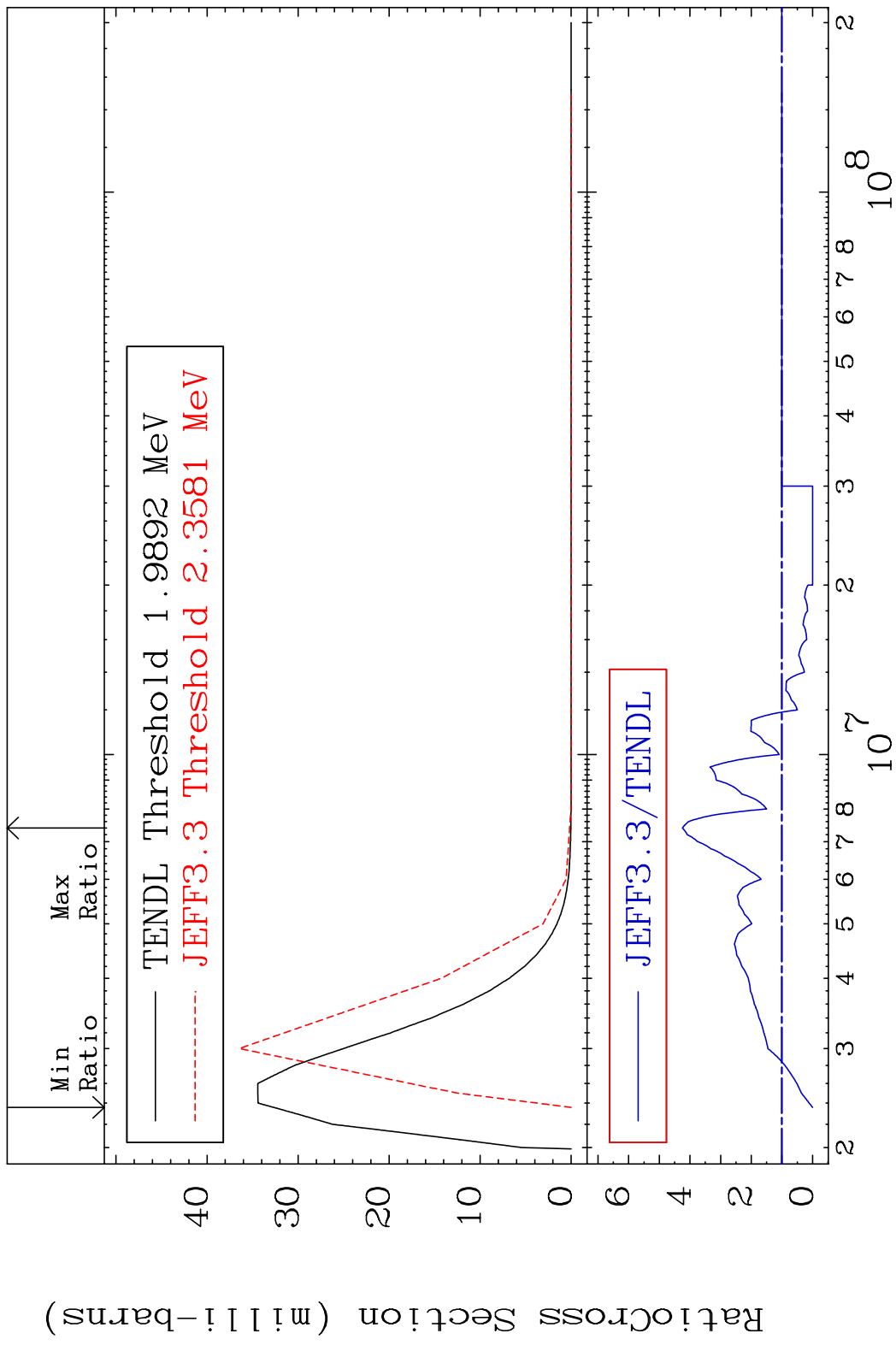
MAT 8025 MT= 65 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 0.000 %



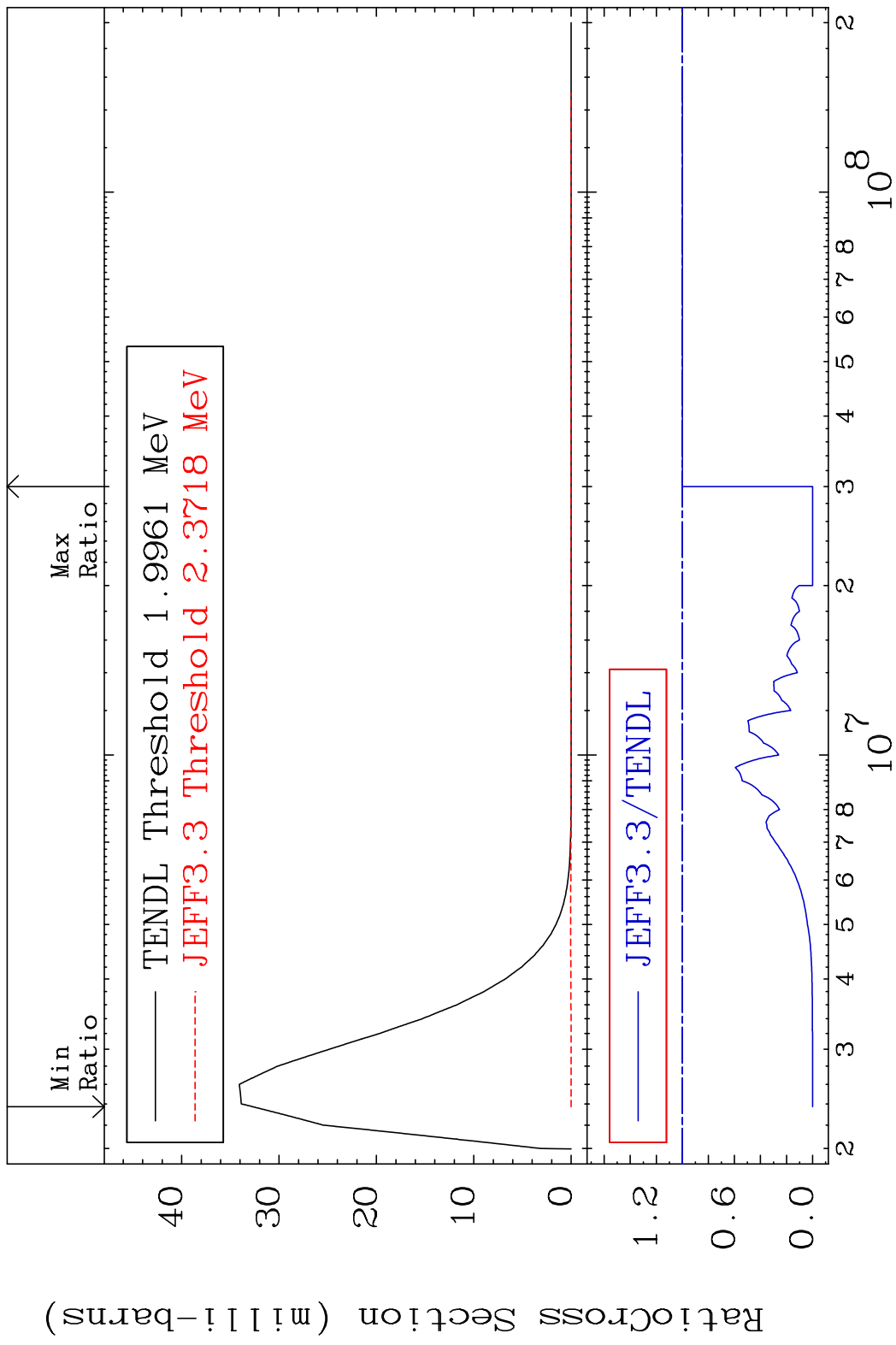
MAT 8025 MT= 66 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 9.886 %



MAT 8025 MT= 67 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 324.8 %

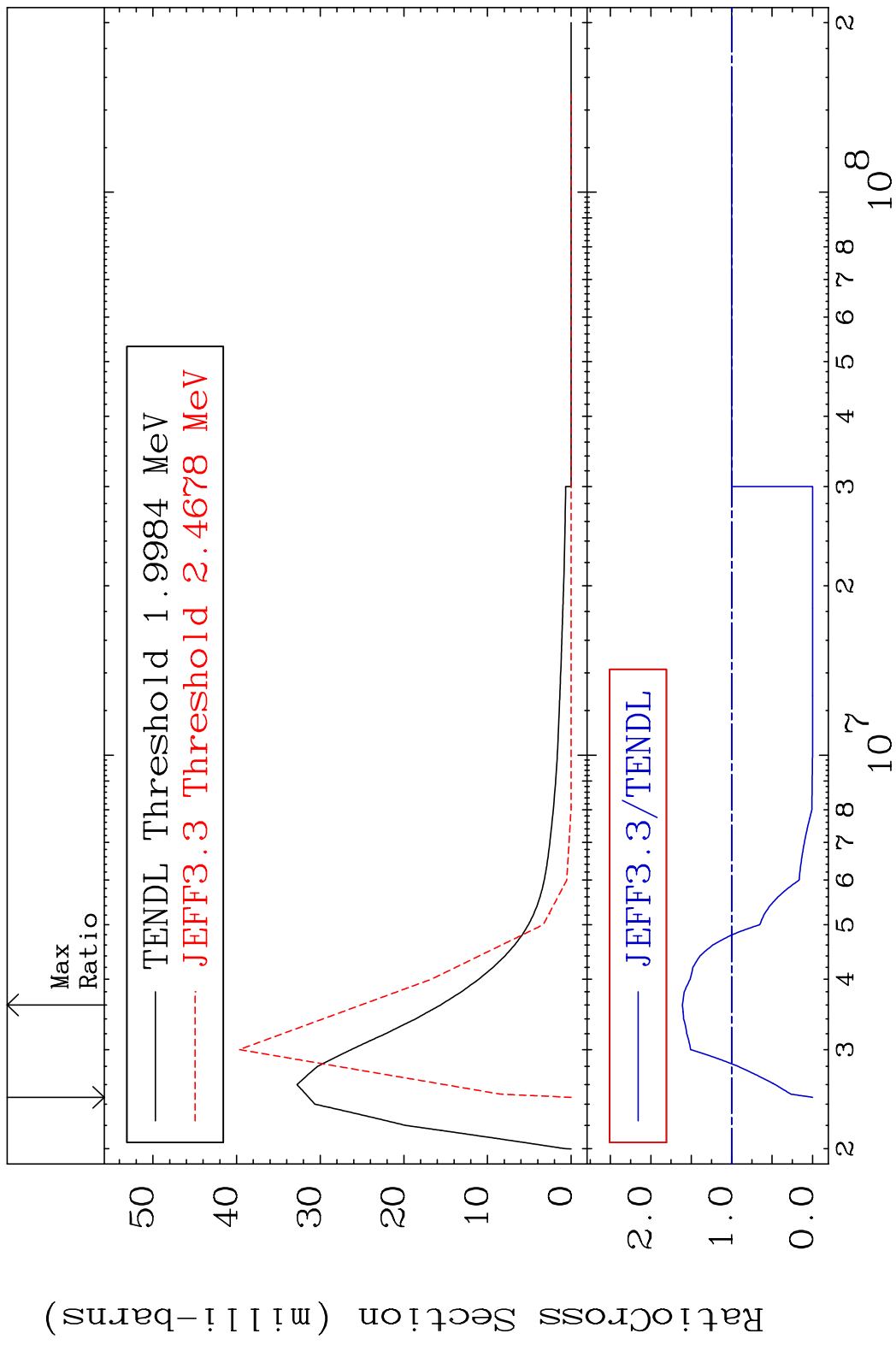


MAT 8025 MT= 68 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 0.000 %

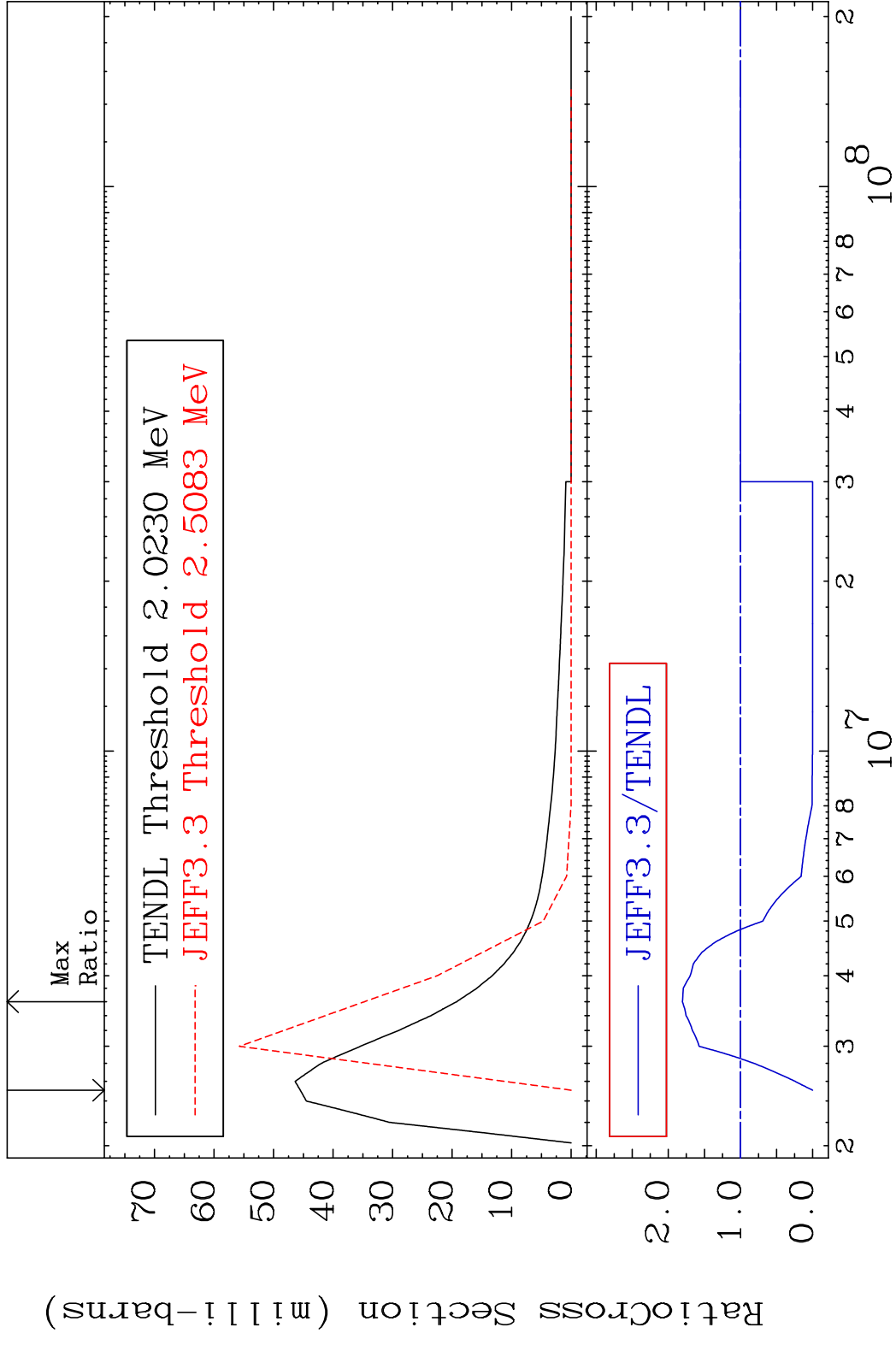


26 Incident Energy (eV) 80-Hg-196

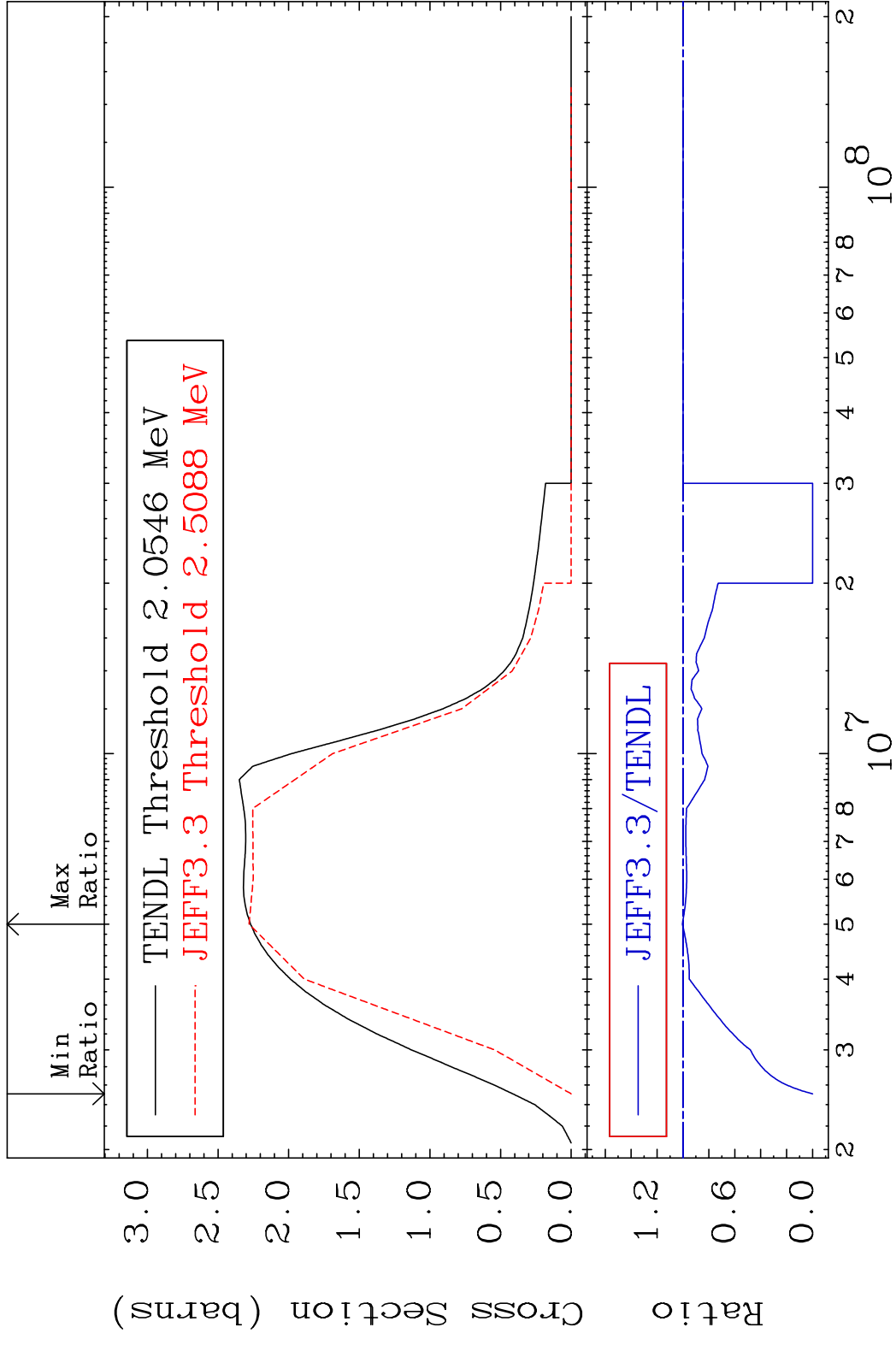
MAT 8025 MT= 69 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 61.02 %



MAT 8025 MT= 70 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 80.57 %



MAT 8025 (n,n') Continuum 80-Hg-196
 Cross Section -100.0 To 0.473 %

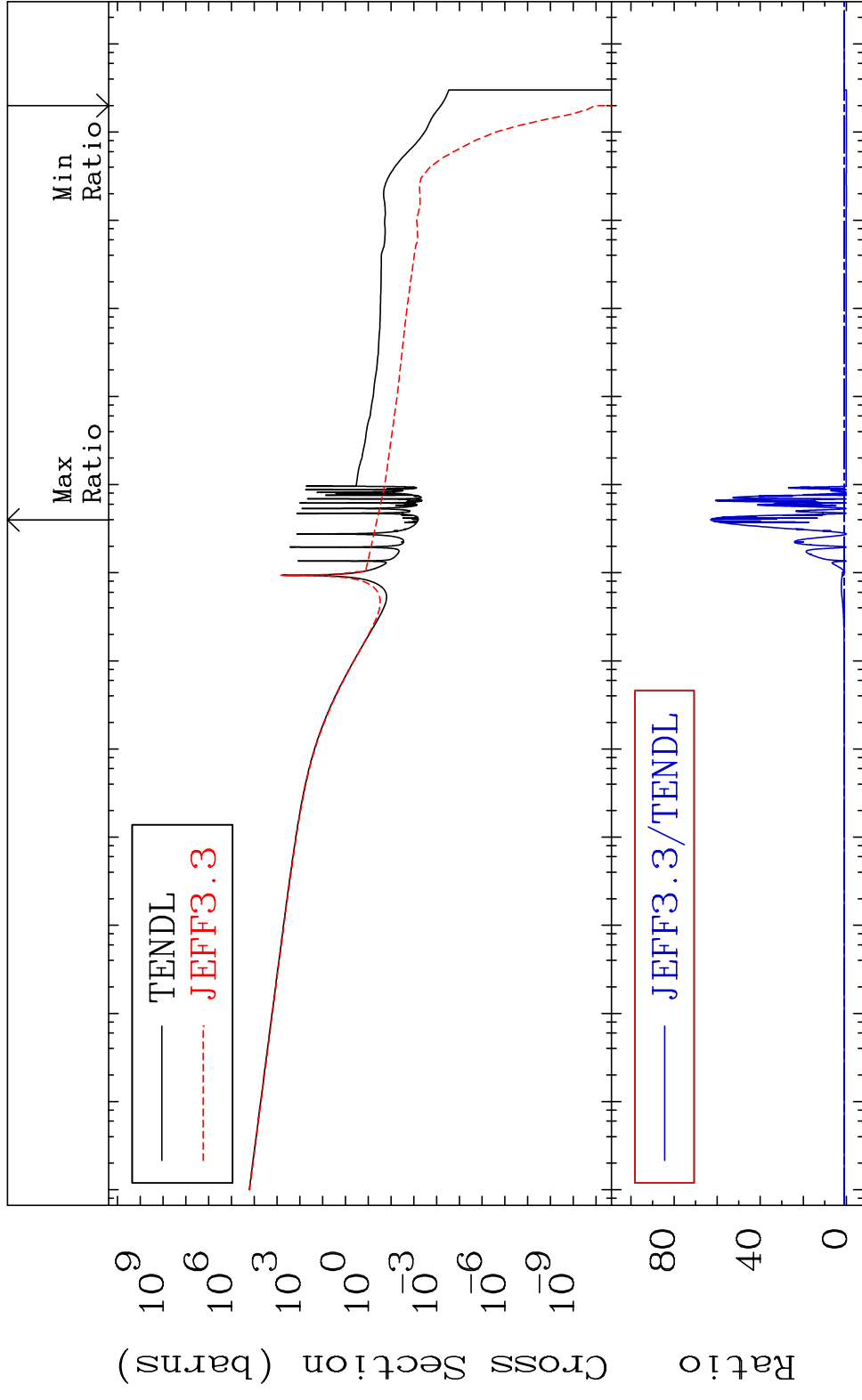


MAT 8025

80-Hg-196

(n, γ)

Cross Section -100.0 To 6199. %



30

Incident Energy (eV)

80-Hg-196

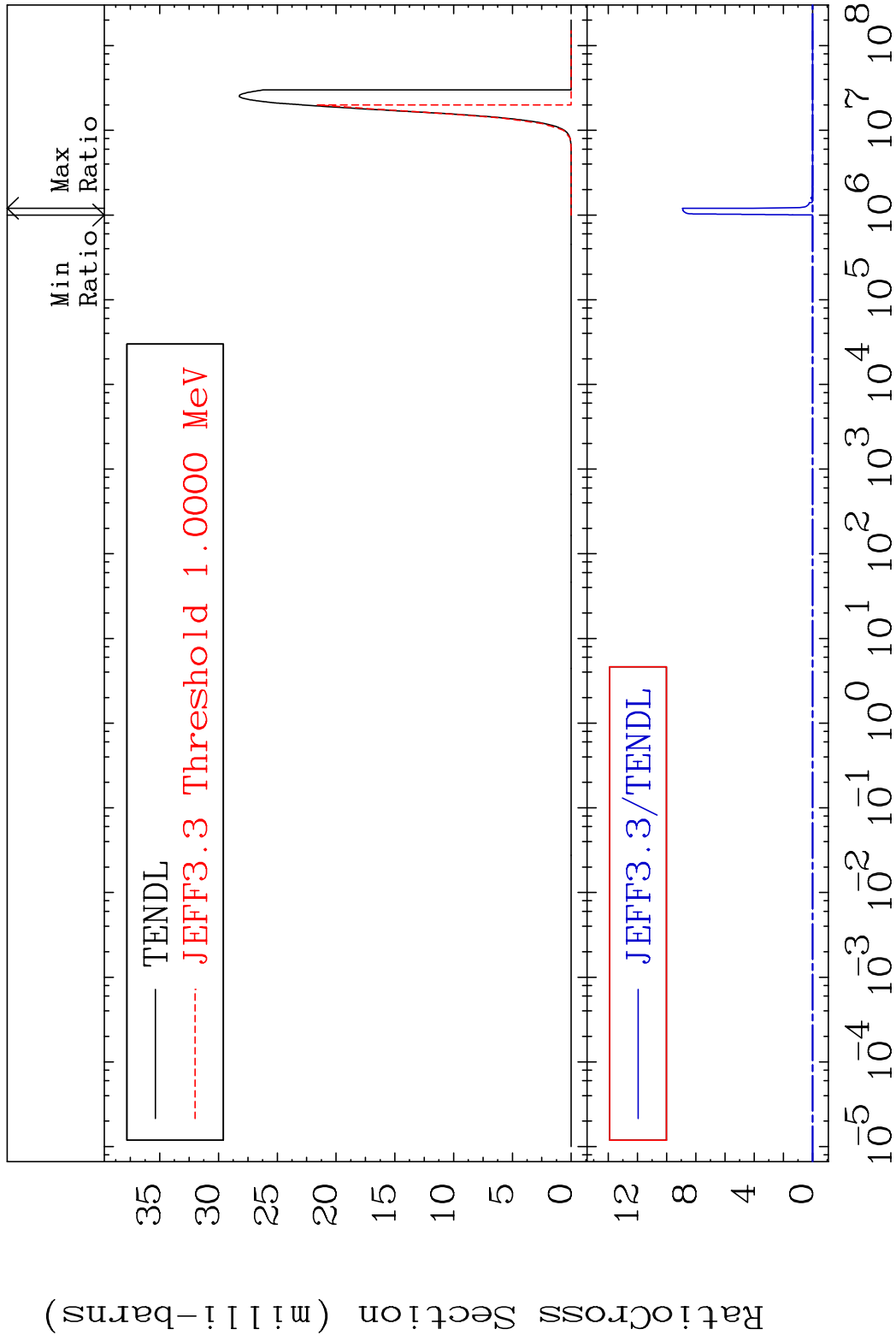
MAT 8025

(n, p)

80-Hg-196

Cross Section

-100.0 To 9999. %

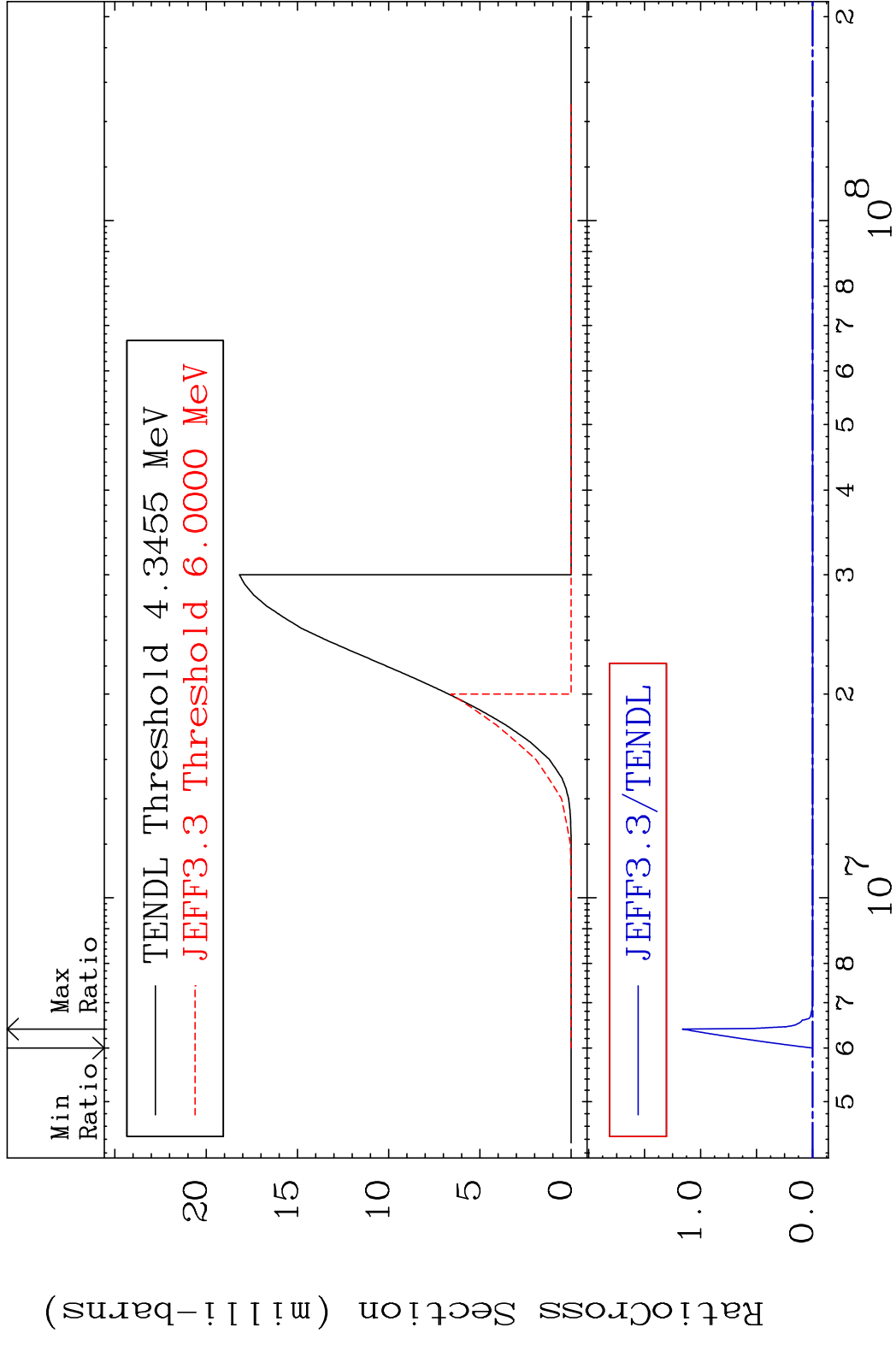


31

Incident Energy (eV)

80-Hg-196

MAT 8025 (n,d) 80-Hg-196
 Cross Section -100.0 To 9999. %

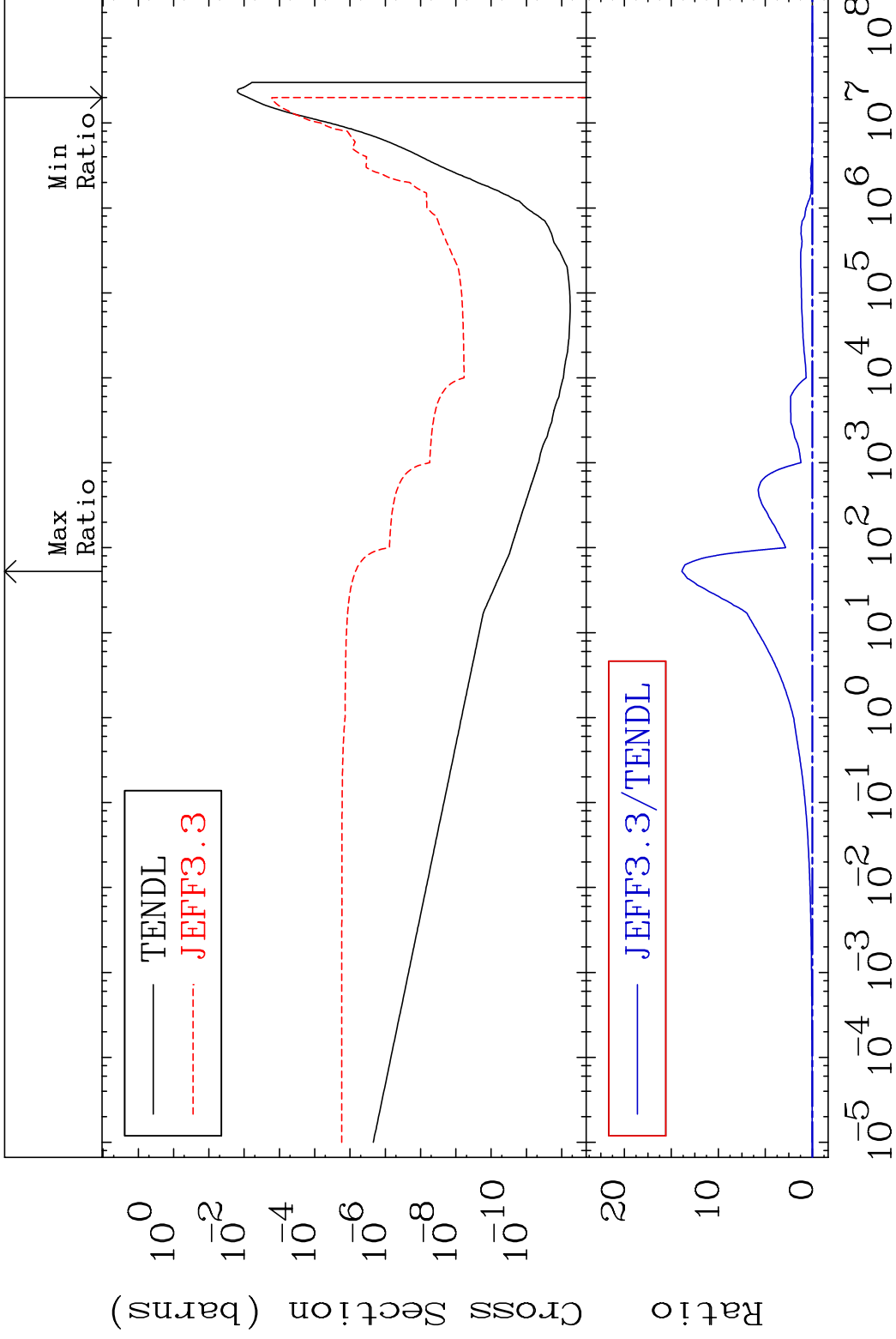


MAT 8025

(n, α)

80-Hg-196

Cross Section -100.0 To 9999. %



33

Incident Energy (eV)

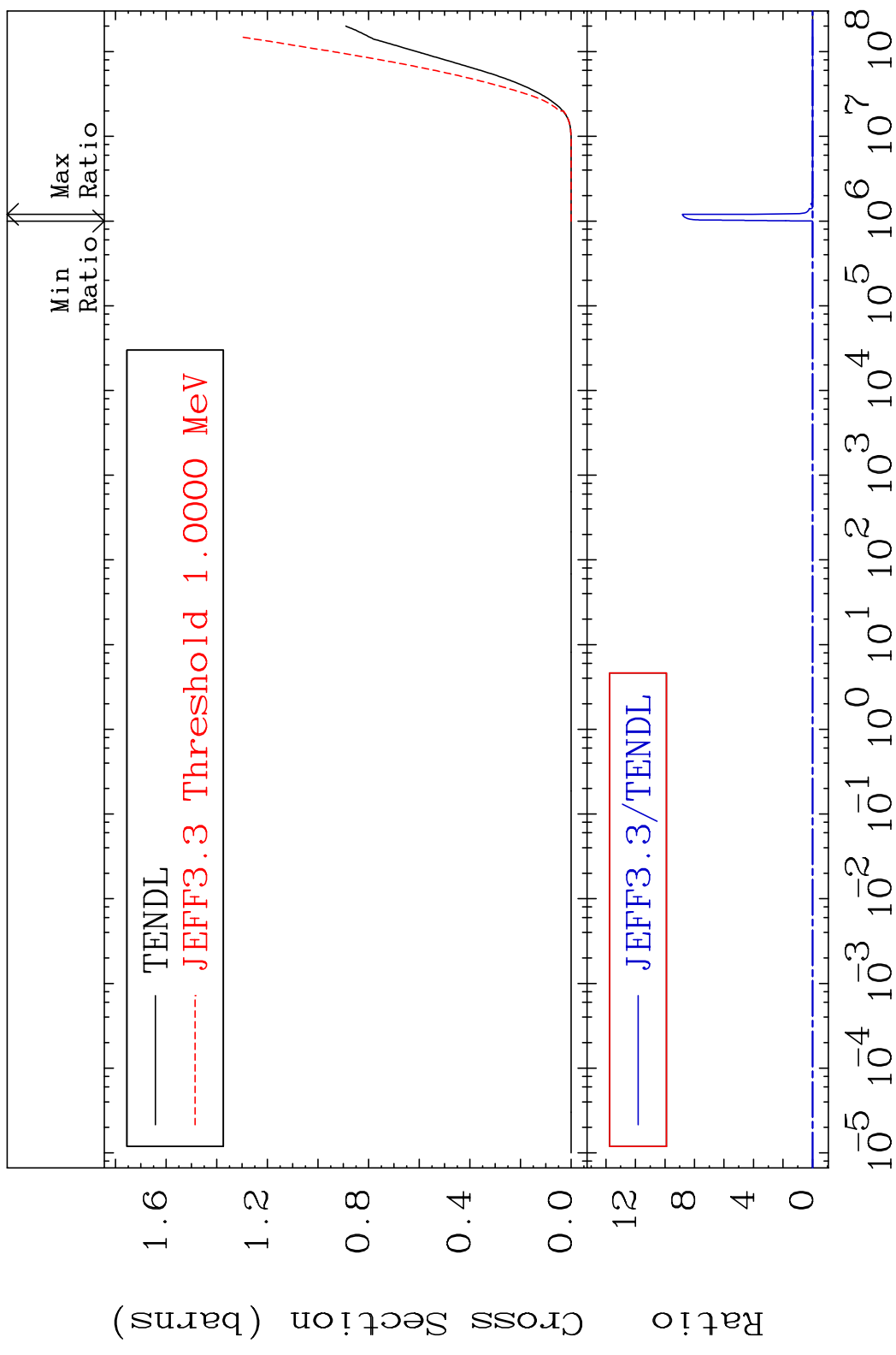
80-Hg-196

MAT 8025

Hydrogen Production

80-Hg-196

Cross Section -100.0 To 9999. %



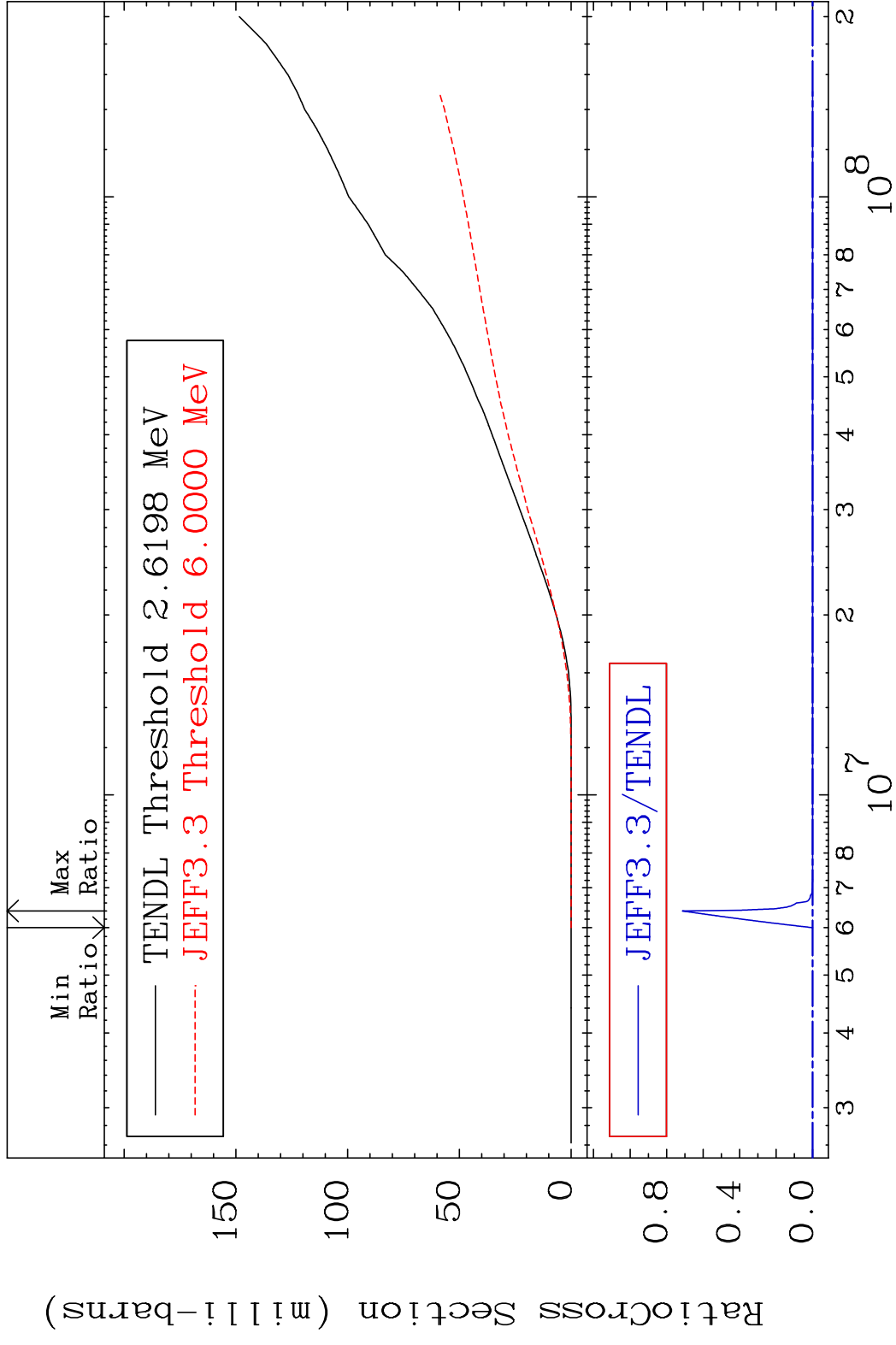
34

Incident Energy (eV)

80-Hg-196

MAT 8025

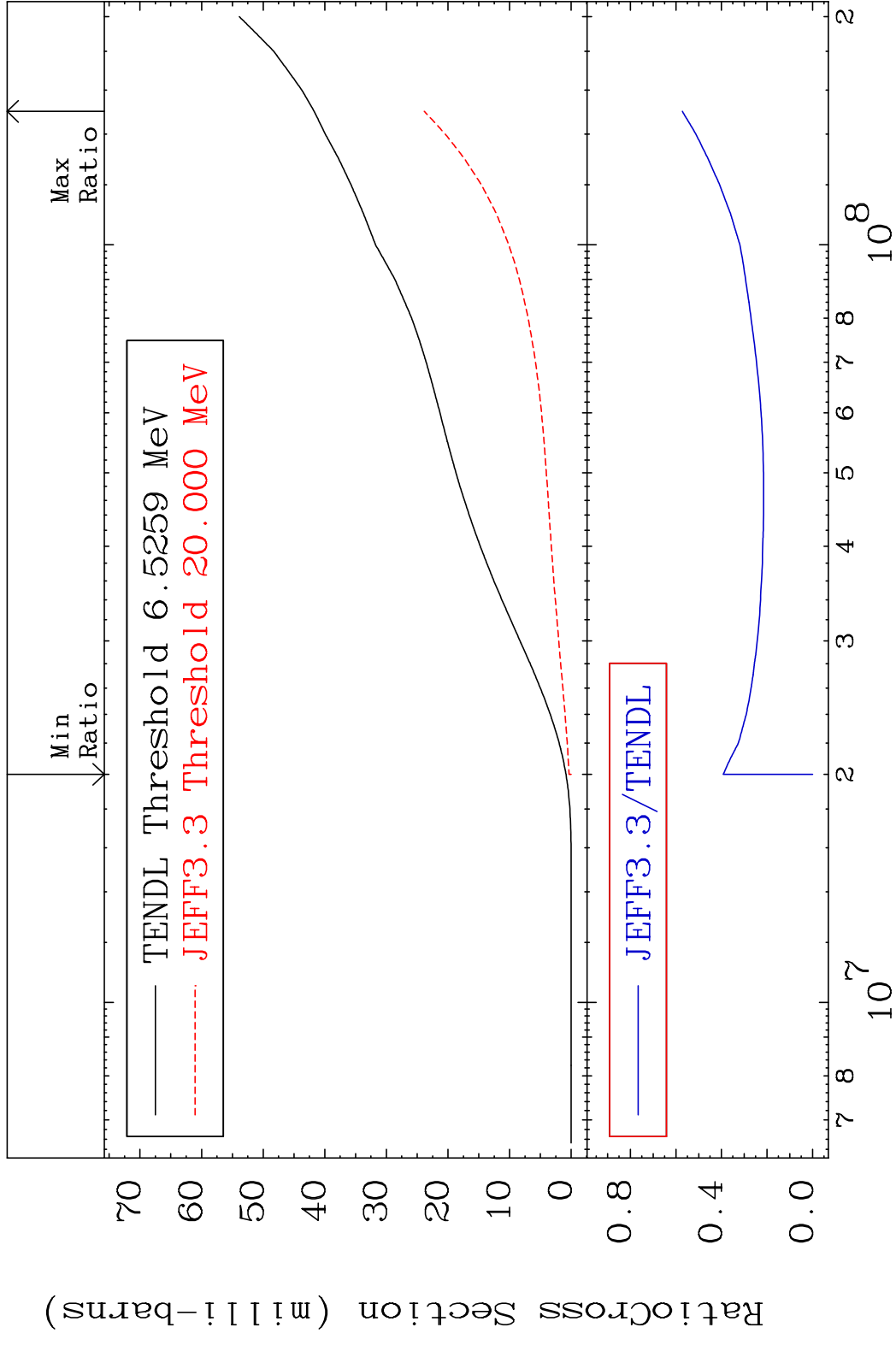
Deuterium Production 80-Hg-196
Cross Section -100.0 To 9999. %



35

Incident Energy (eV) 80-Hg-196

MAT 8025 Tritium Production 80-Hg-196
 Cross Section -100.0 To -42.82%

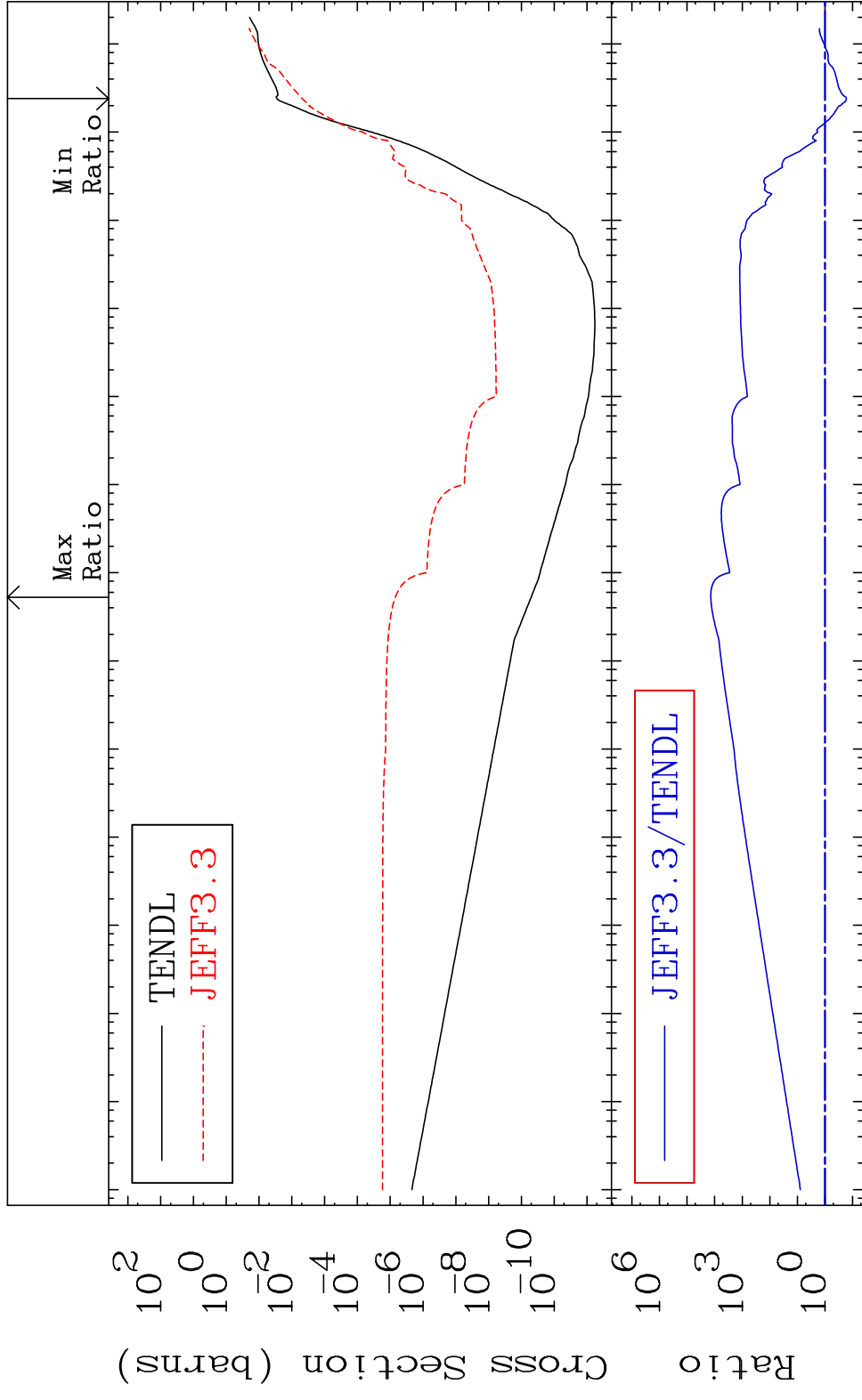


MAT 8025

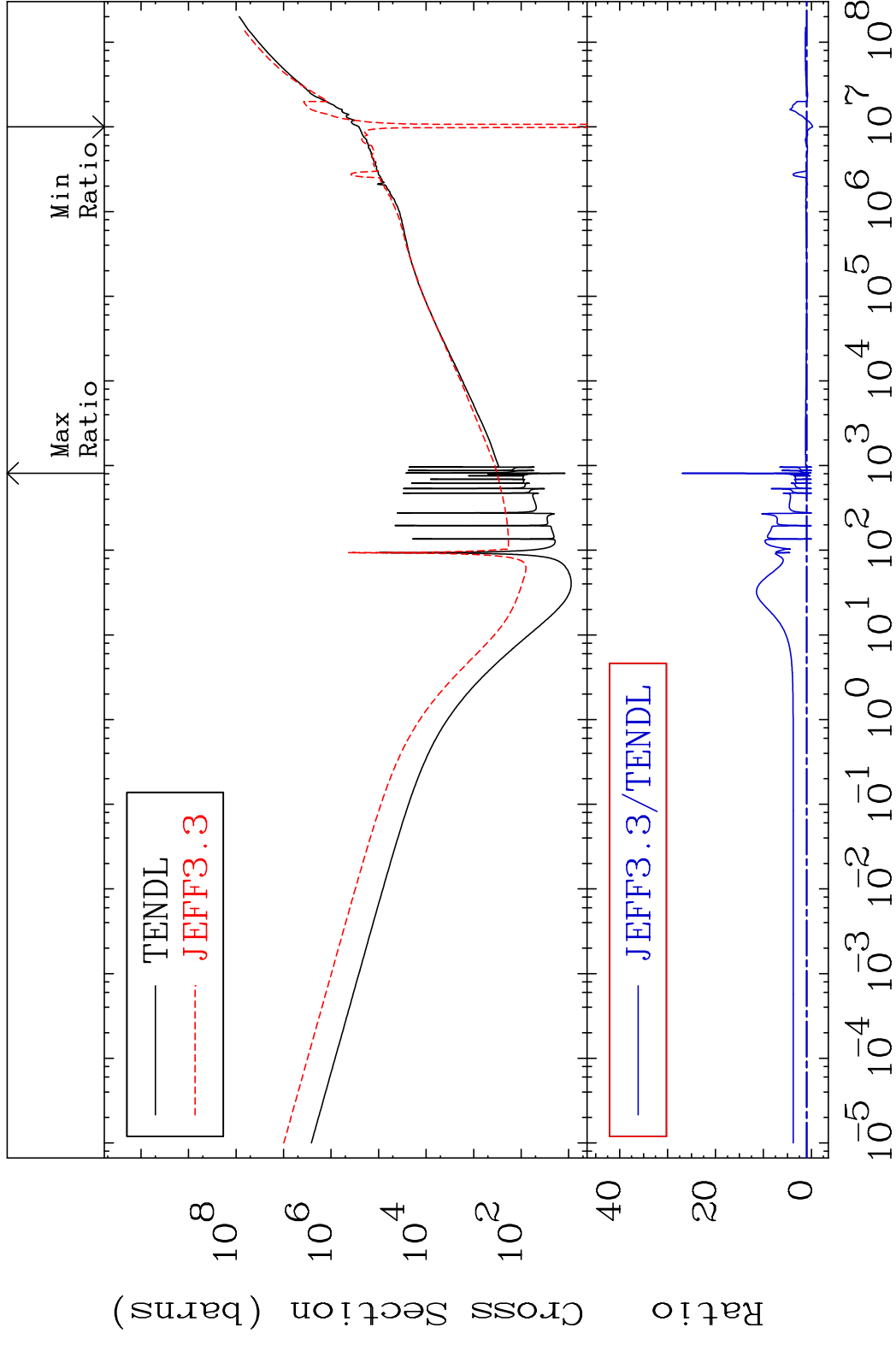
He-4 Production

80-Hg-196

Cross Section -83.14 To 9999. %



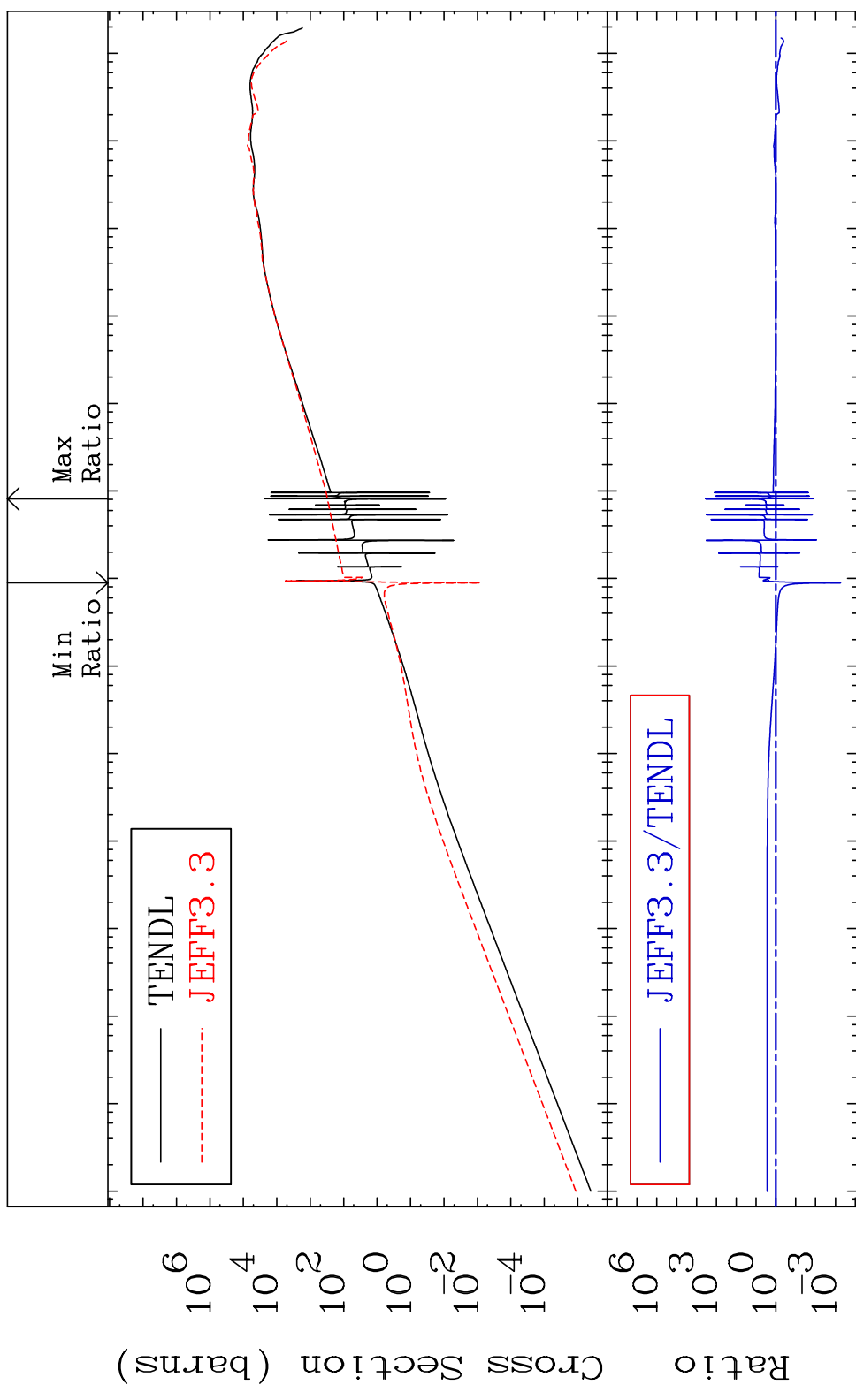
MAT 8025 Kerma total (eV-barns) 80-Hg-196
 Cross Section -124.1 To 2591. %



38 Incident Energy (eV) 80-Hg-196

MAT 8025

Kerma elastic Cross Section -99.94 To 9999. %
80-Hg-196

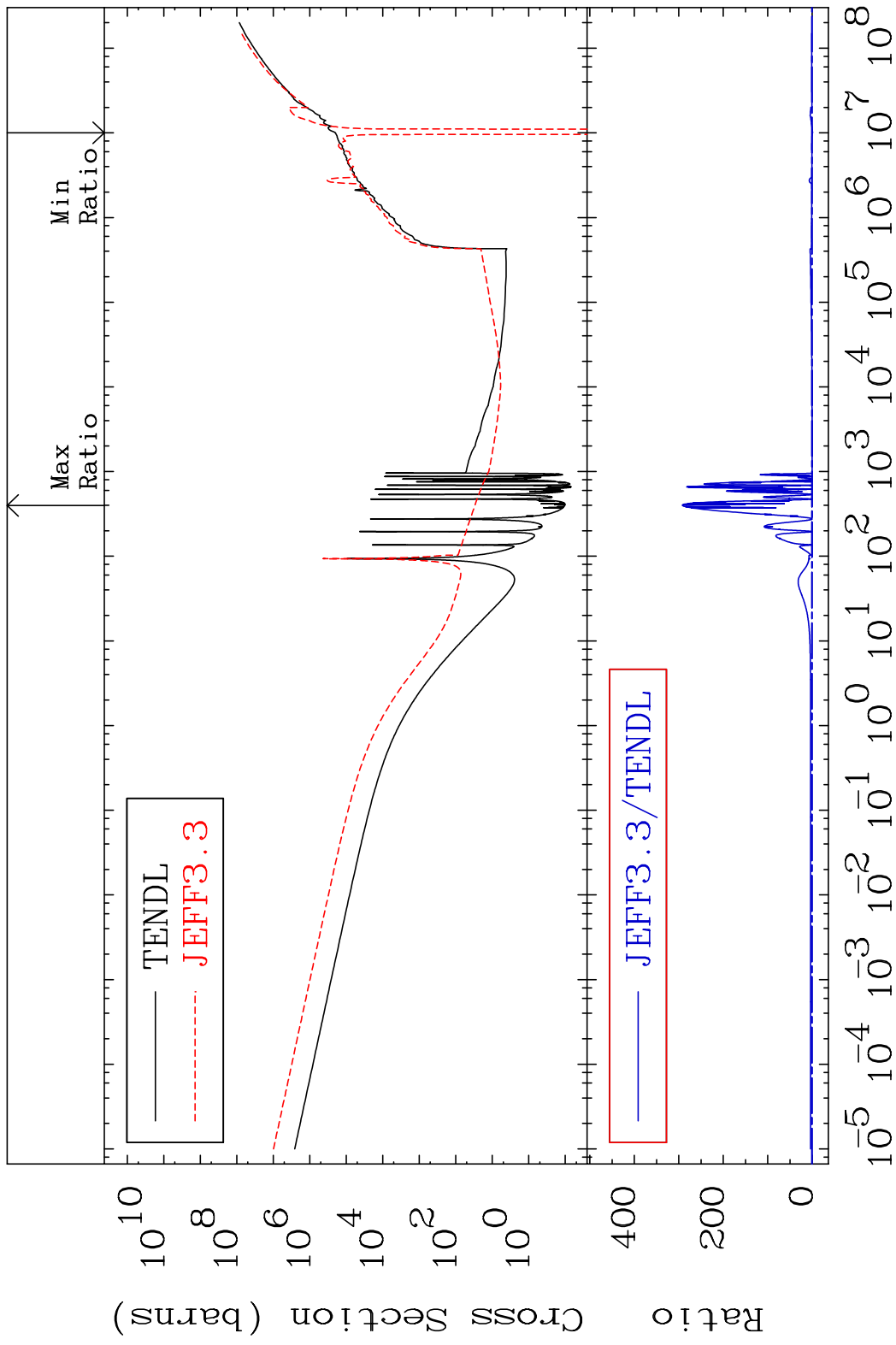


39

Incident Energy (eV)

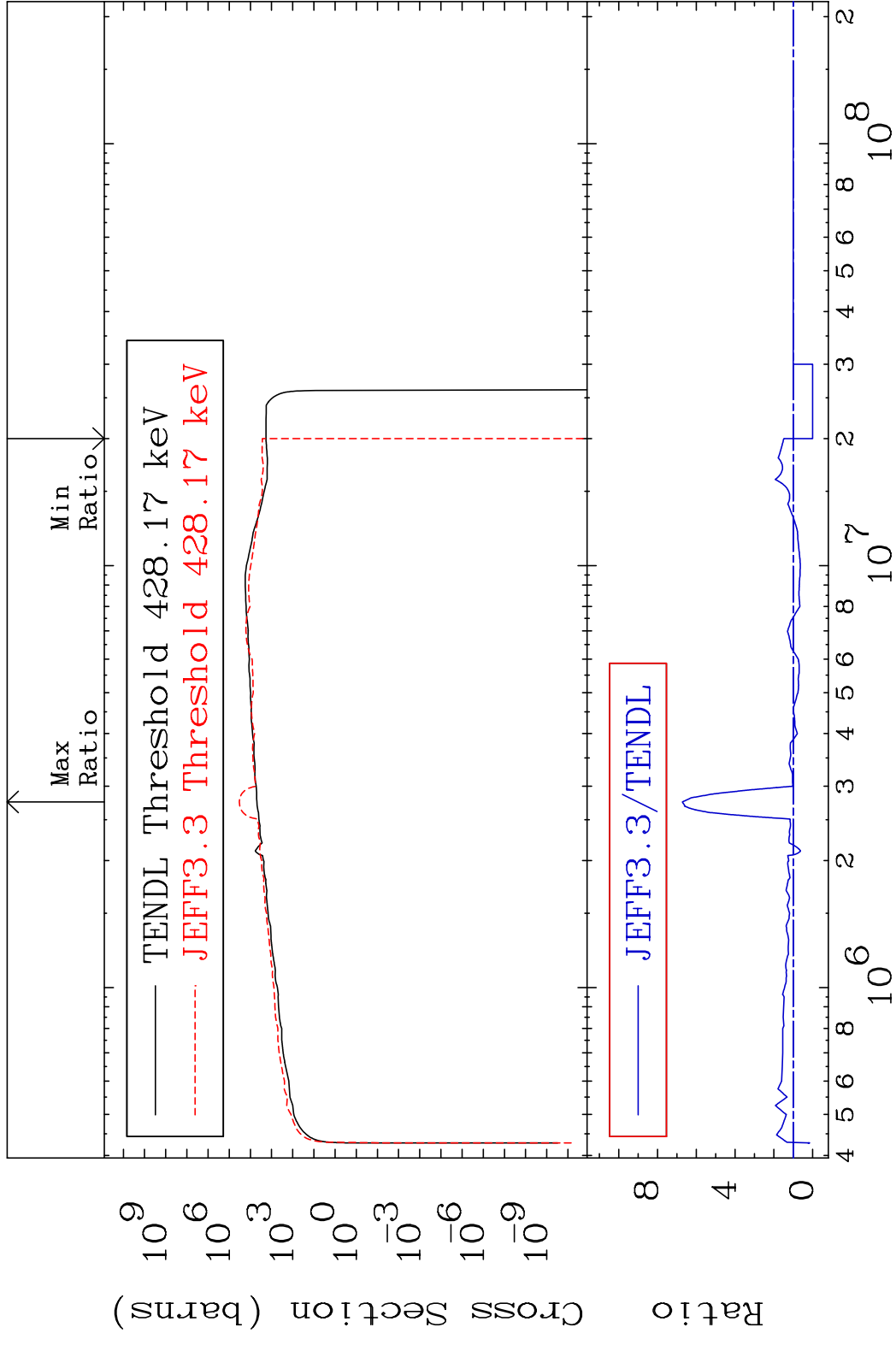
80-Hg-196

MAT 8025 Kerma non-elastic (all but mt2) 80-Hg-196
 Cross Section -167.7 To 9999. %

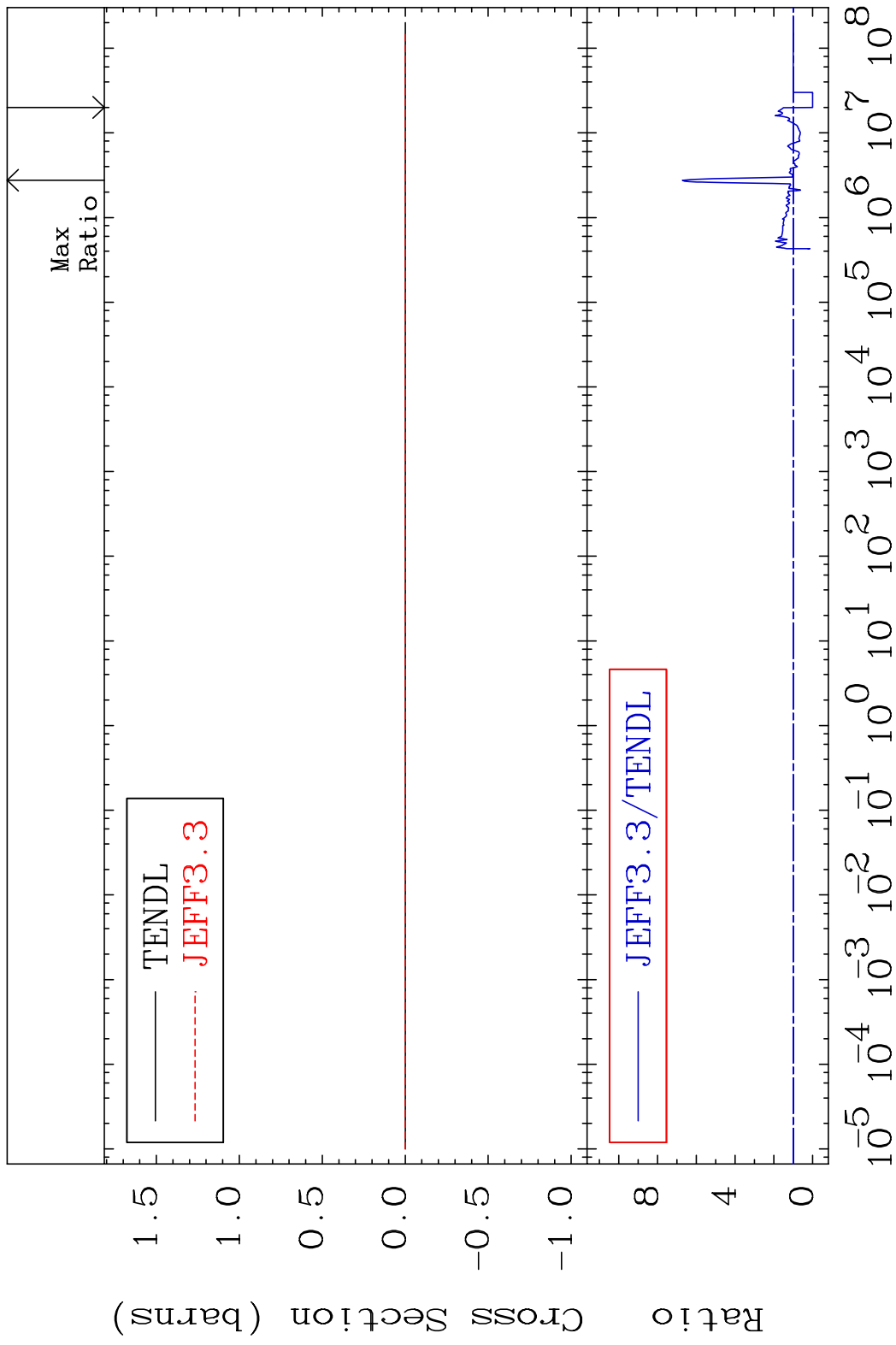


40 Incident Energy (eV) 80-Hg-196

MAT 8025 Kerma inelastic (mt51-91) 80-Hg-196
 Cross Section -100.0 To 571.5 %

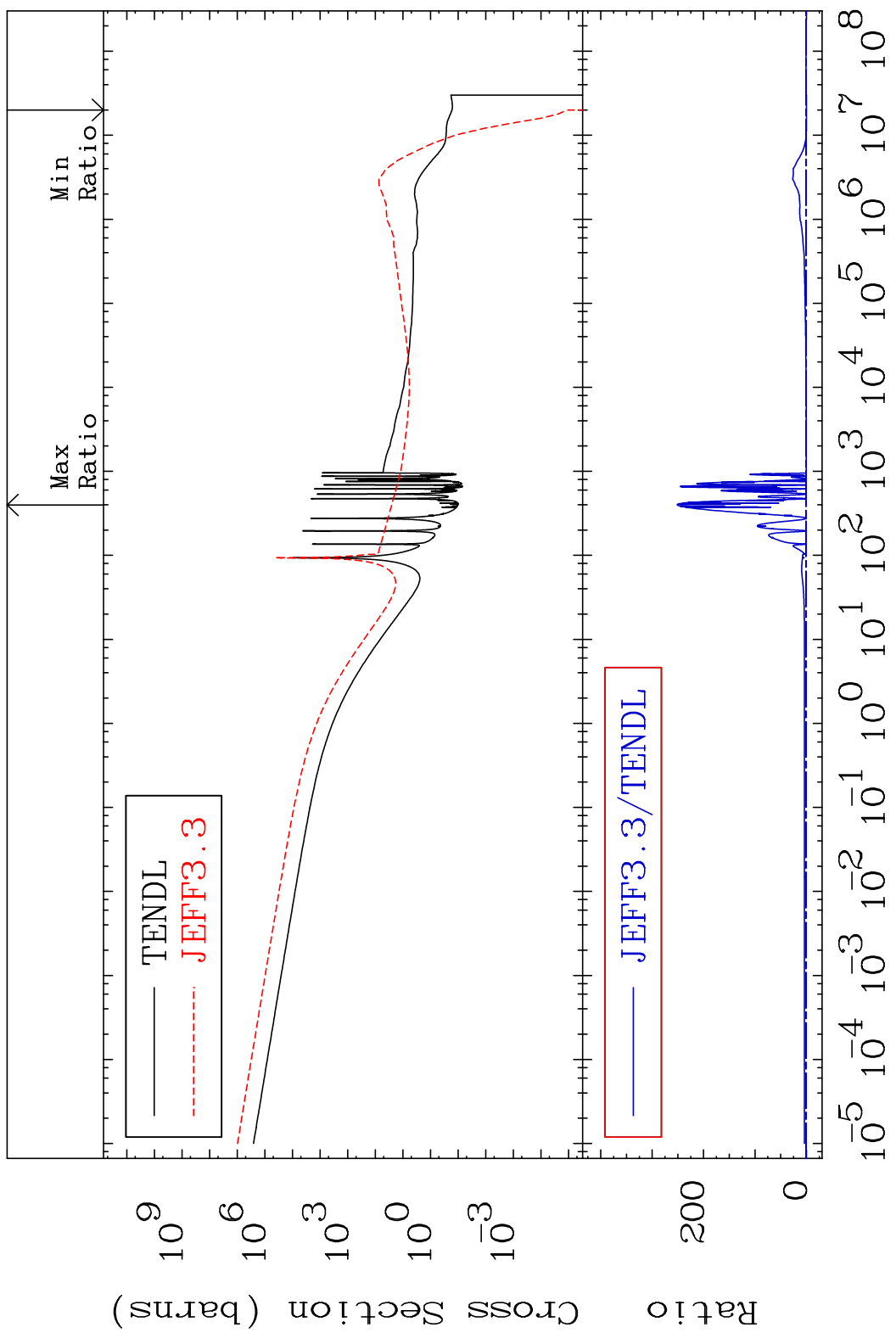


MAT 8025 Kerma fission (mt18 or mt19-20-21-38) 80-Hg-196
 Cross Section -100.0 To 571.5 %



MAT 8025

Kerma capture (mt102) 80-Hg-196
Cross Section -100.0 To 9999. %

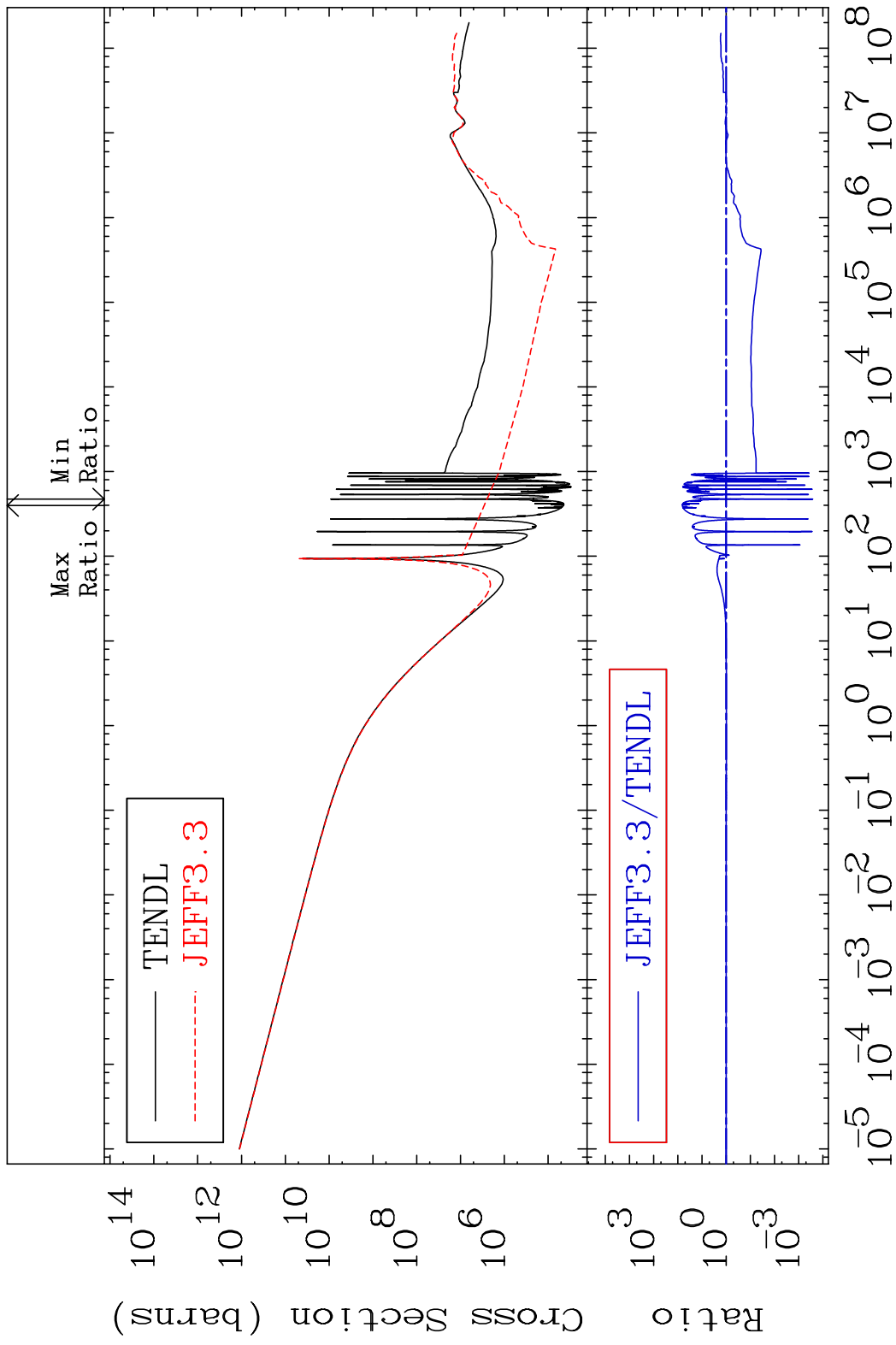


43

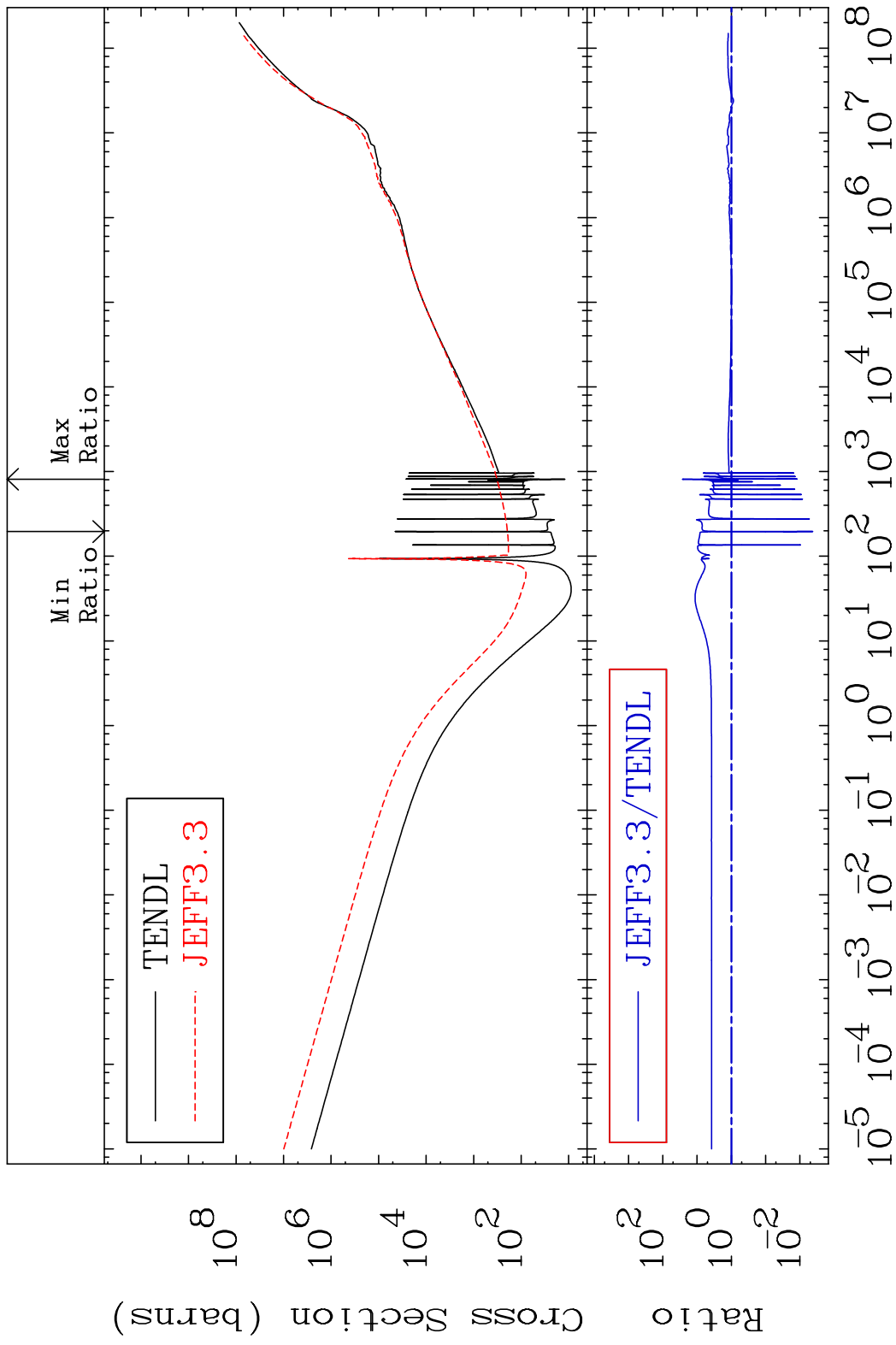
Incident Energy (eV)

80-Hg-196

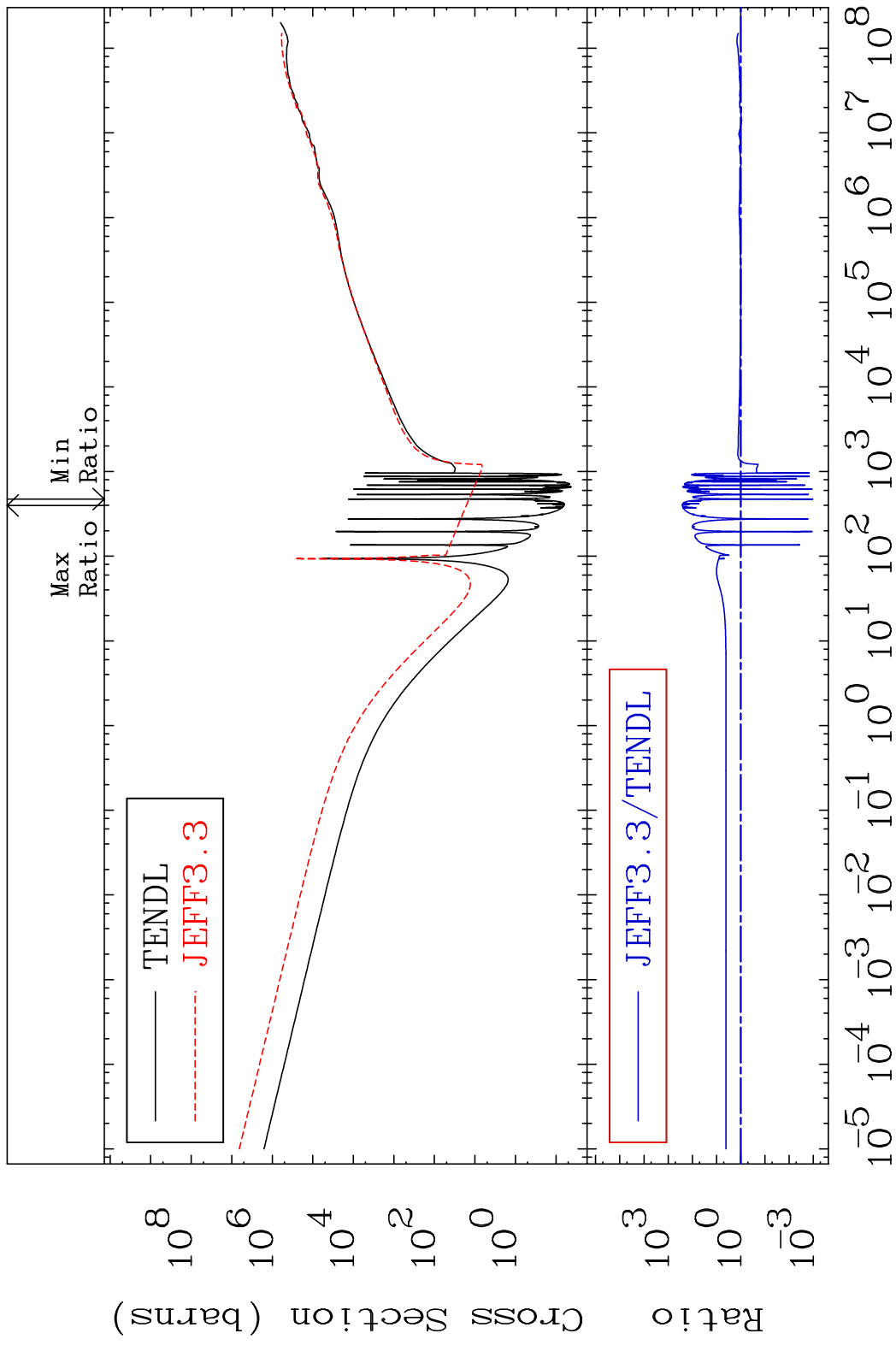
MAT 8025 Total photon (eV-barns) 80-Hg-196
 Cross Section -99.97 To 6381. %



MAT 8025 Total kinematic kerma (high limit) 80-Hg-196
 Cross Section -99.57 To 2591. %



MAT 8025 Dpa total (eV-barns) 80-Hg-196
 Cross Section -99.89 To 9999. %



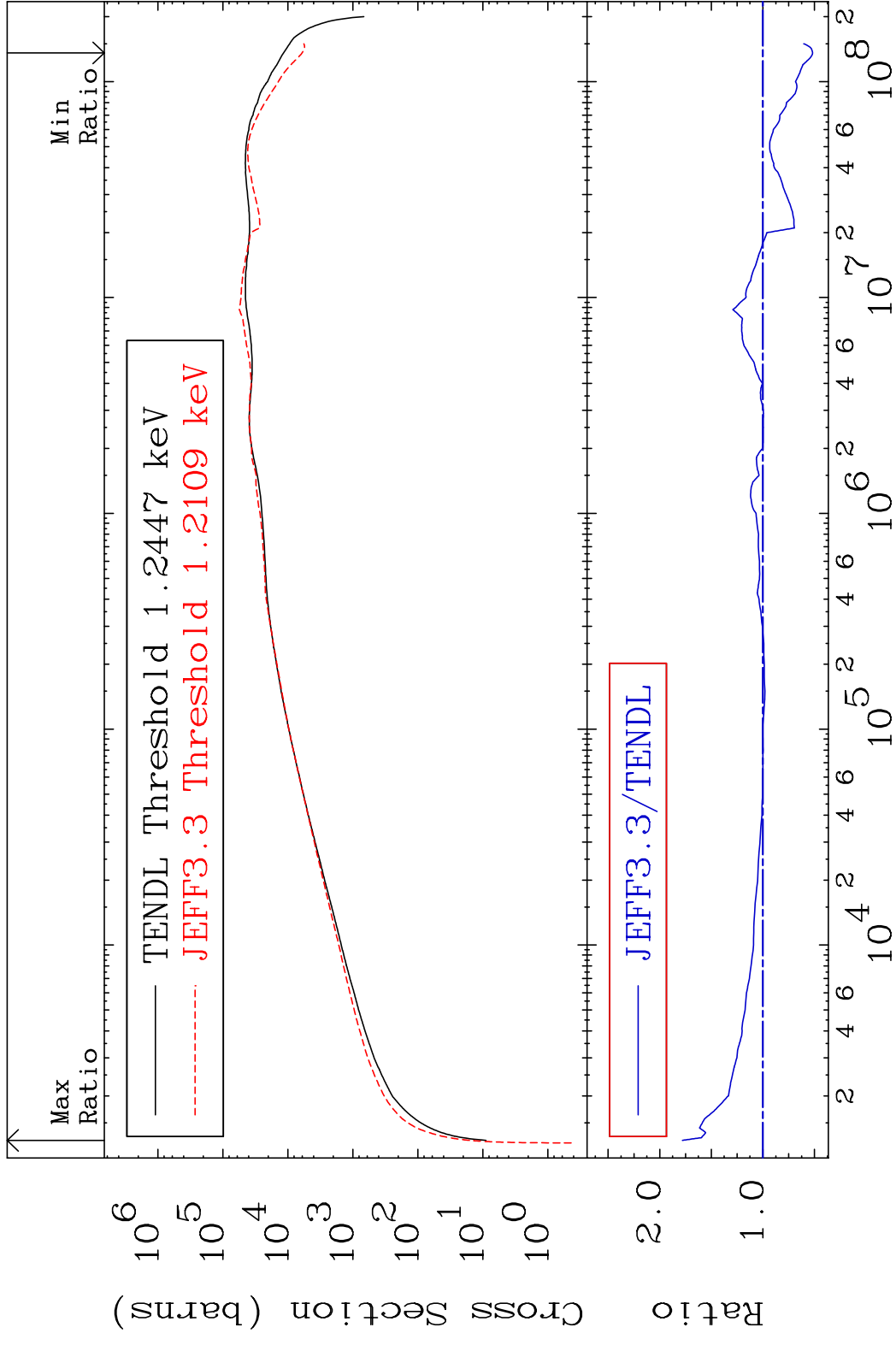
MAT 8025

Dpa elastic (mt2)

80-Hg-196

Cross Section

-48.13 To 78.07 %

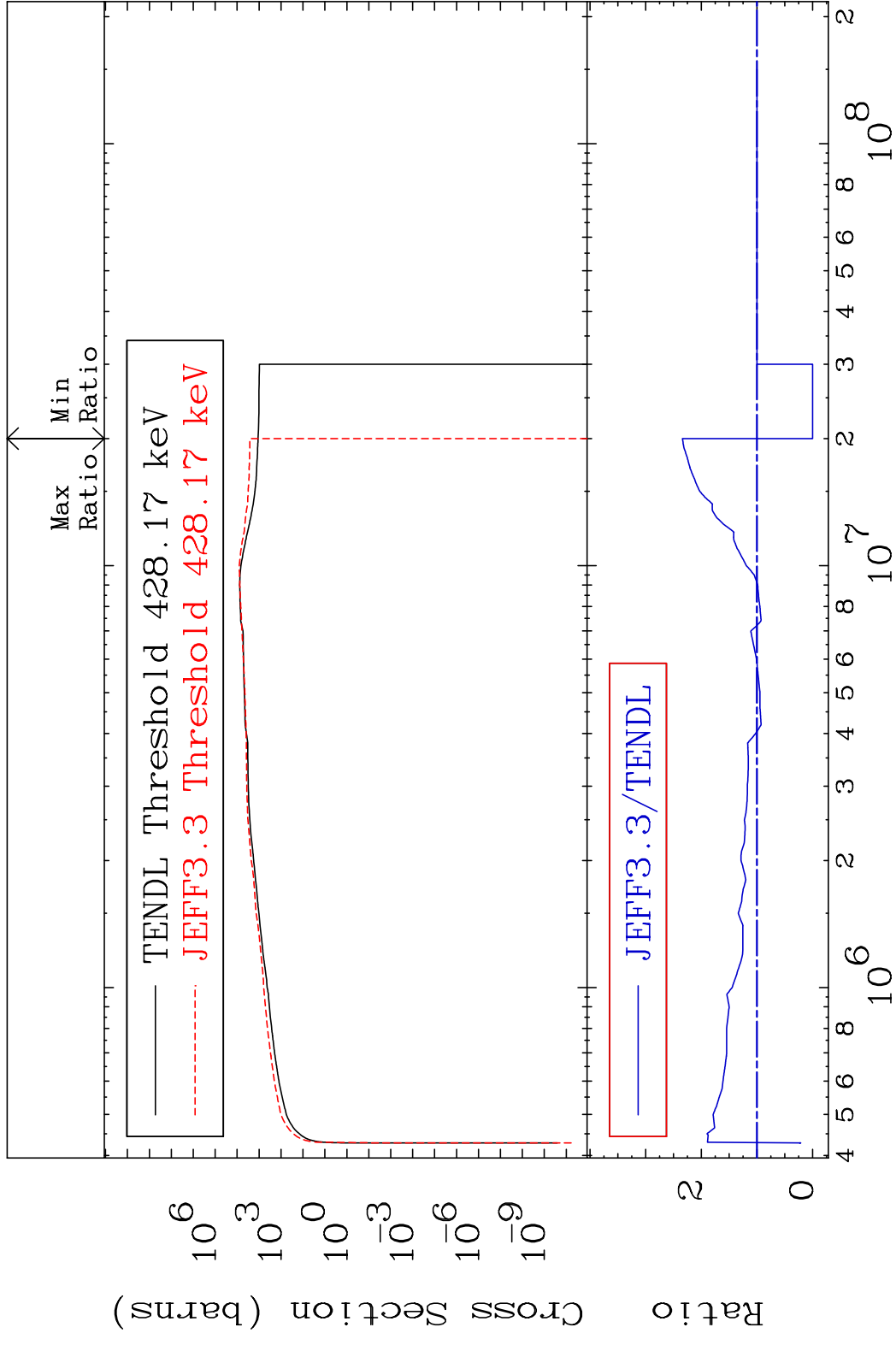


47

Incident Energy (eV)

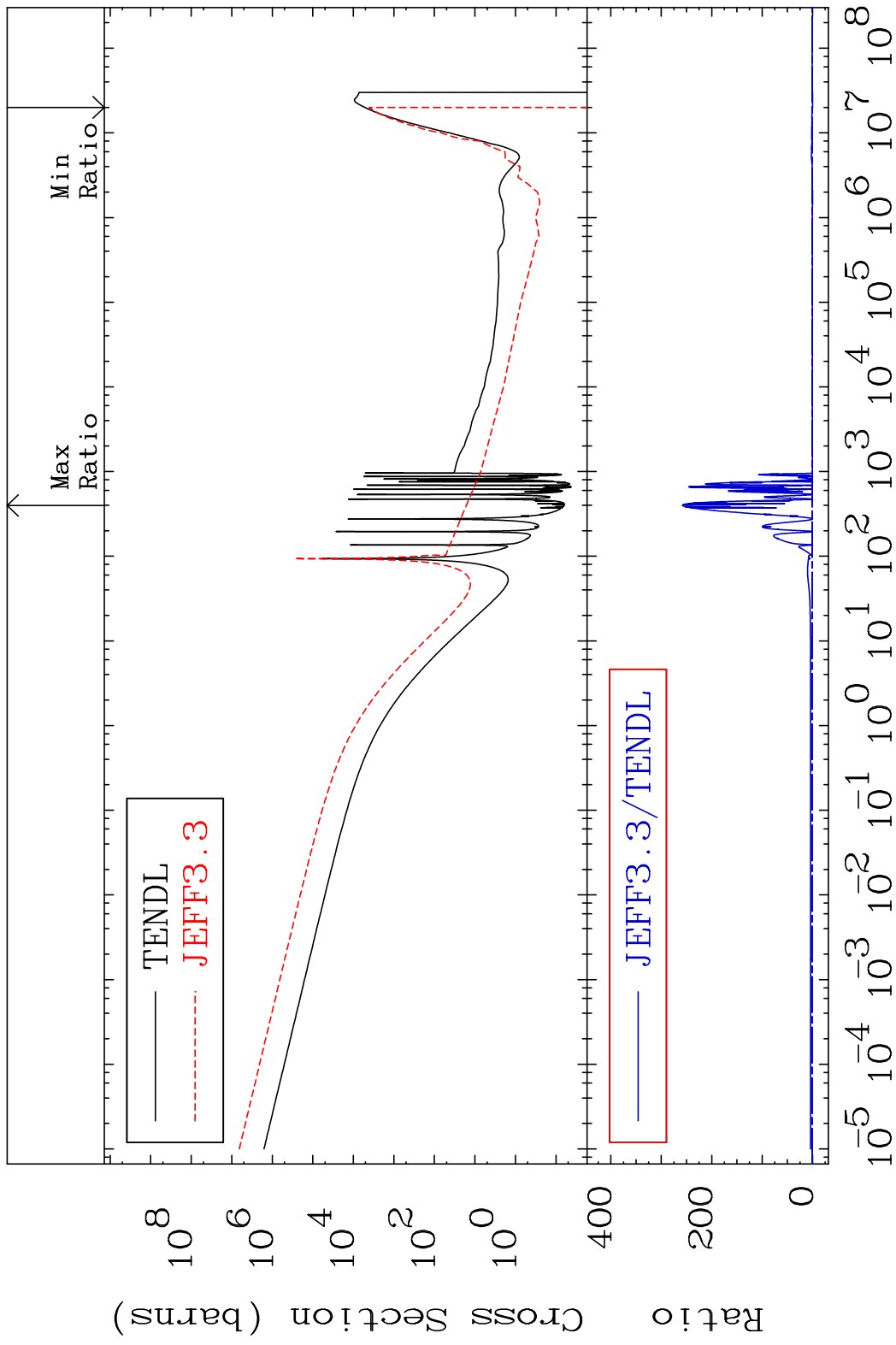
80-Hg-196

MAT 8025 Dpa inelastic (mt51-91) 80-Hg-196
 Cross Section -100.0 To 133.9 %



48 Incident Energy (eV) 80-Hg-196

MAT 8025 Dpa disappearance (mt102 -120) 80-Hg-196
 Cross Section -100.0 To 9999. %



49 Incident Energy (eV) 80-Hg-196