

Program Complot
(Version 2021-1)

by

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(Present Contact Information)

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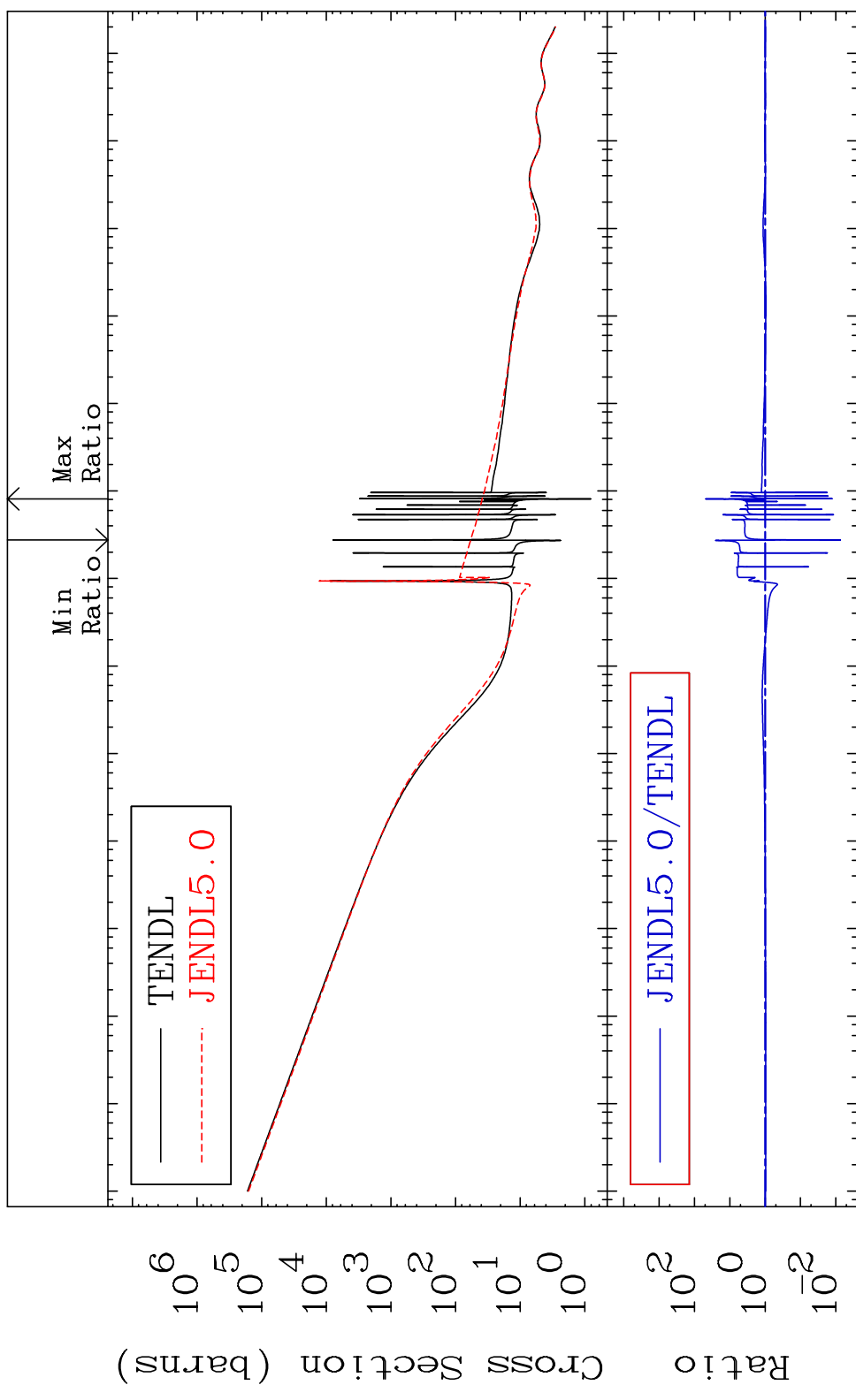
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 8025

Total Cross Section -99.26 To 4694. %
80-Hg-196



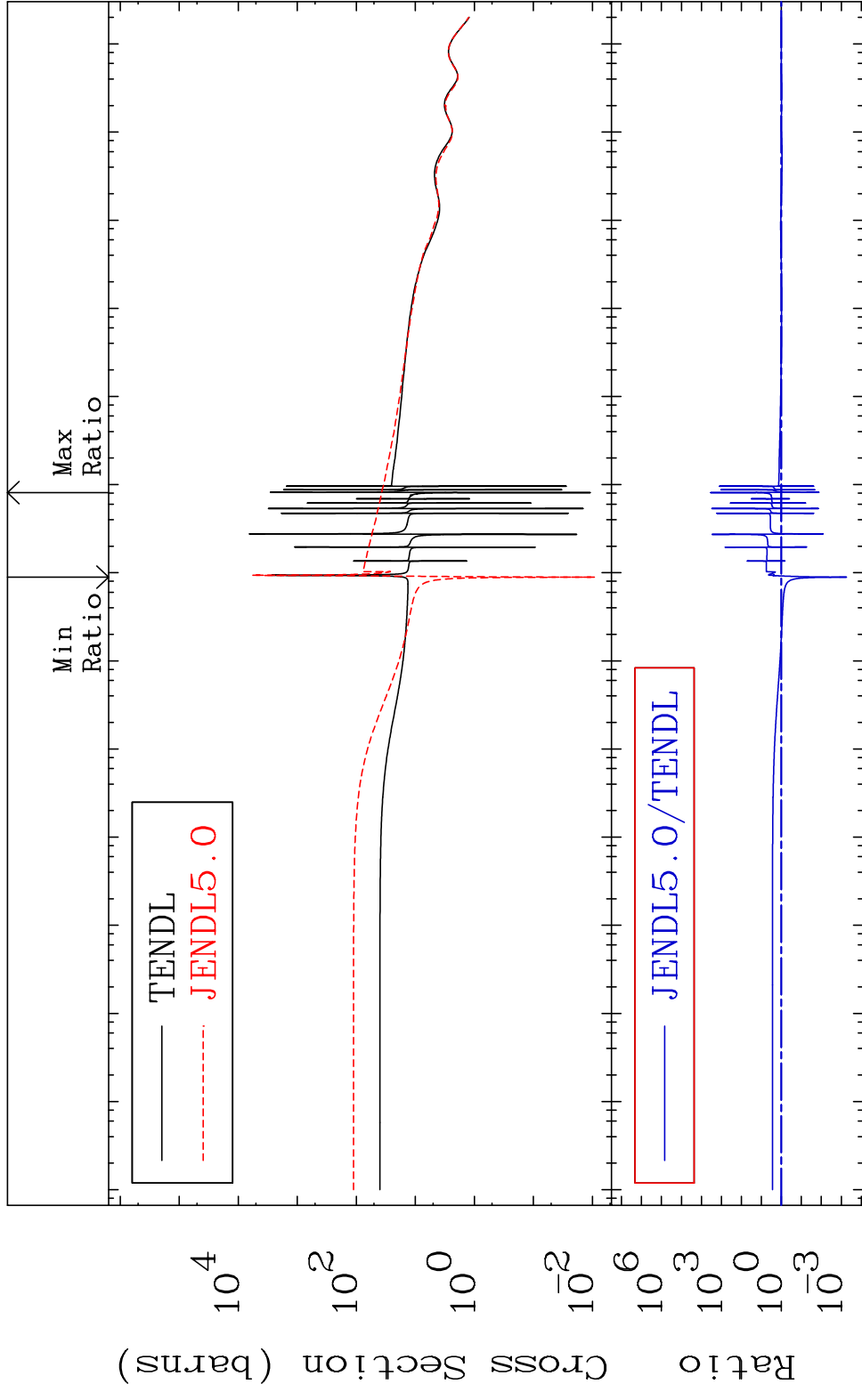
1 Incident Energy (eV) 80-Hg-196

MAT 8025

Elastic

80-Hg-196

Cross Section -99.94 To 9999. %



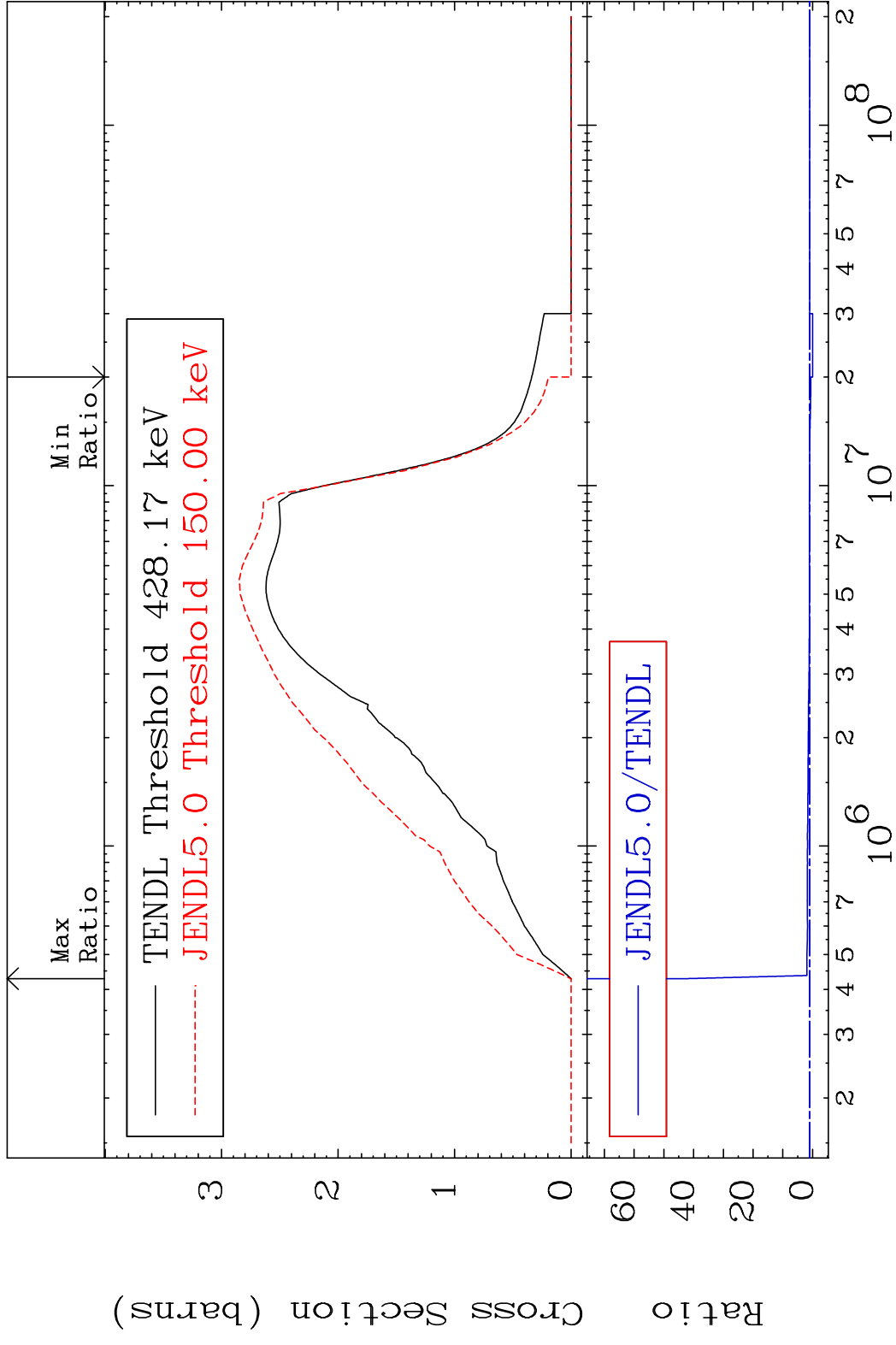
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

2

Incident Energy (eV)

80-Hg-196

MAT 8025 Inelastic Cross Section -100.0 To 4278. % 80-Hg-196

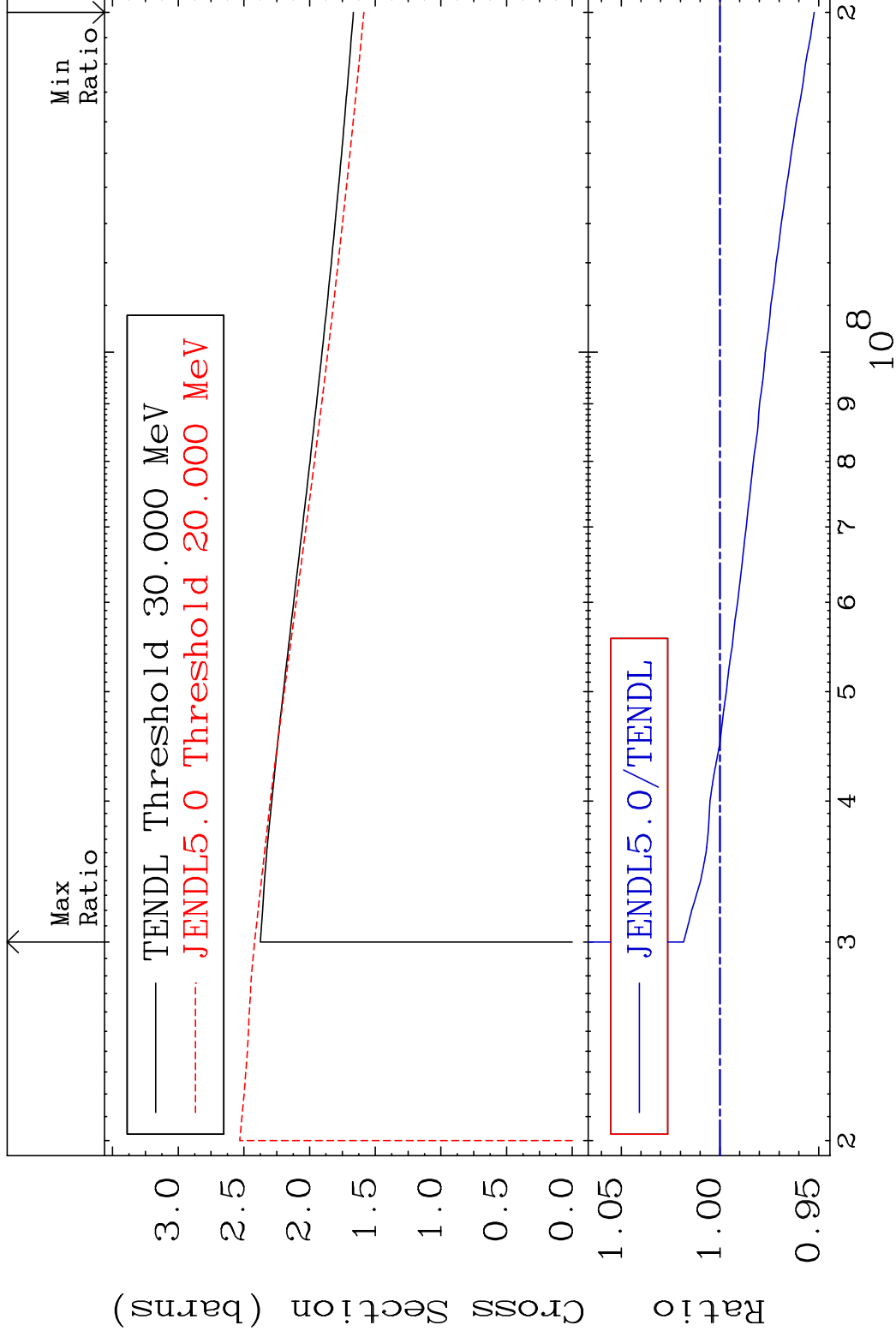


MAT 8025

(n, remainder)

80-Hg-196

Cross Section -4.771 To 1.838 %

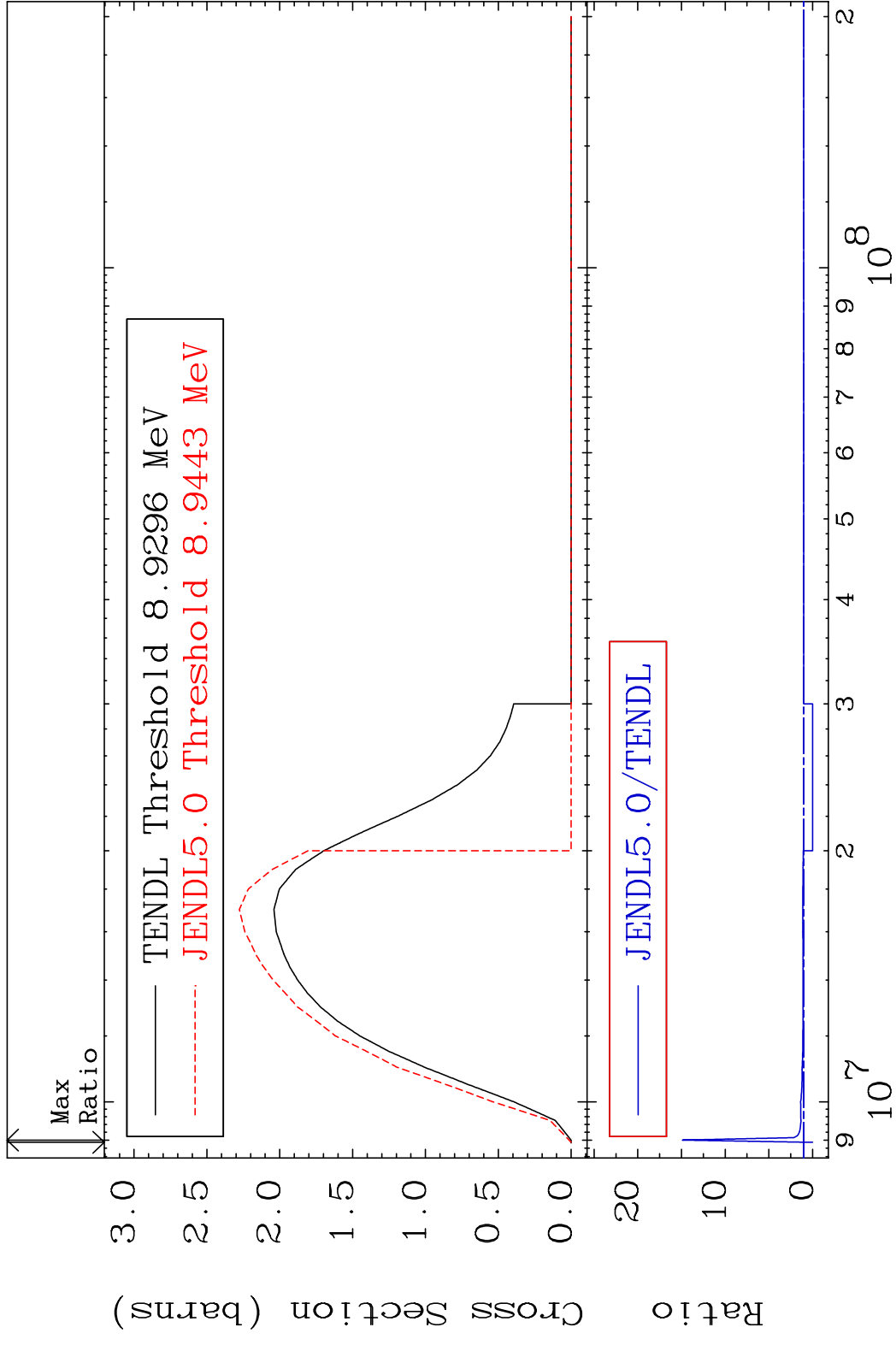


4

Incident Energy (eV)

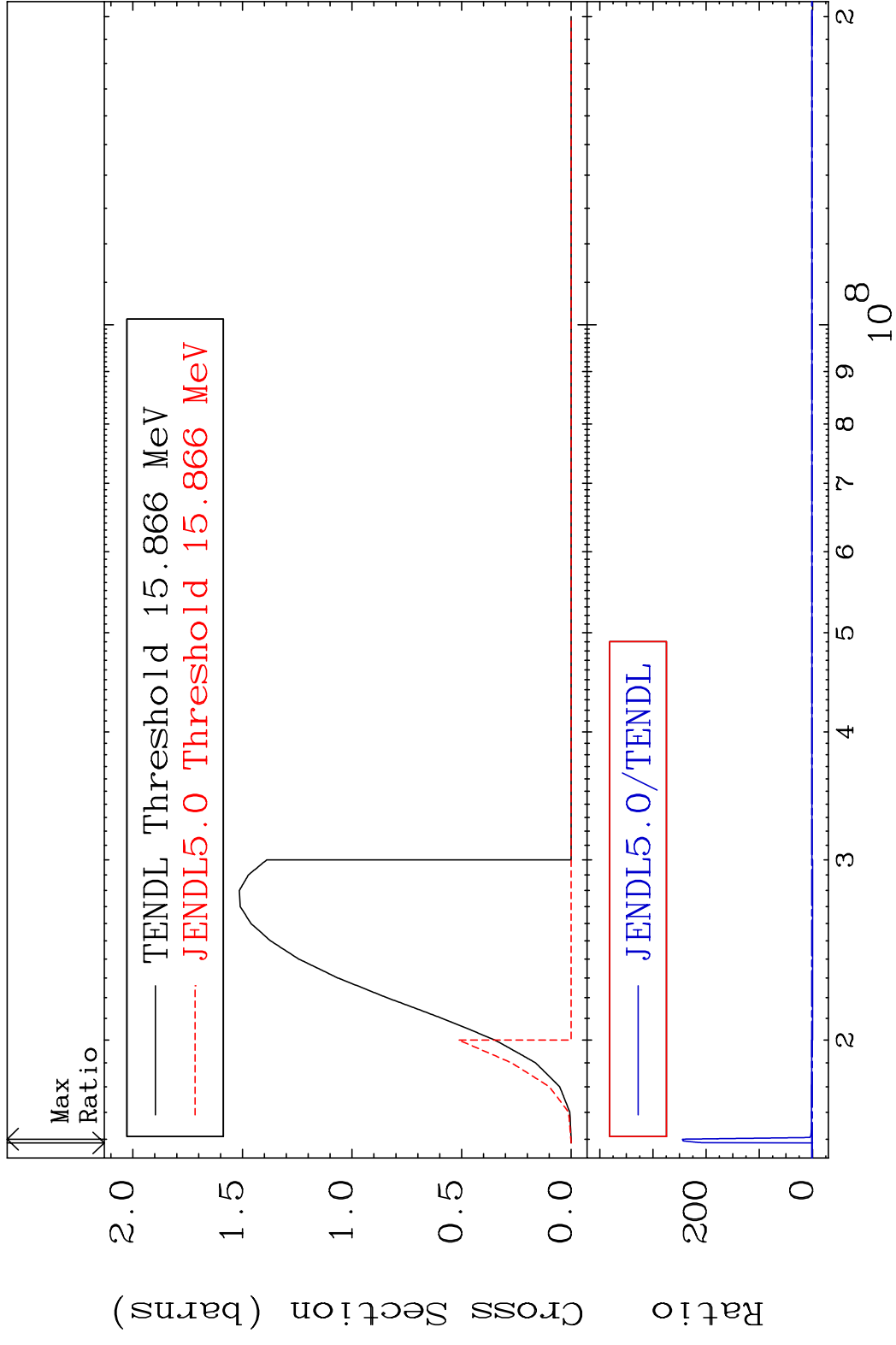
80-Hg-196

MAT 8025 (n,2n) 80-Hg-196
 Cross Section -100.0 To 1390. %



5 Incident Energy (eV) 80-Hg-196

MAT 8025 (n,3n) 80-Hg-196
 Cross Section -100.0 To 9999. %

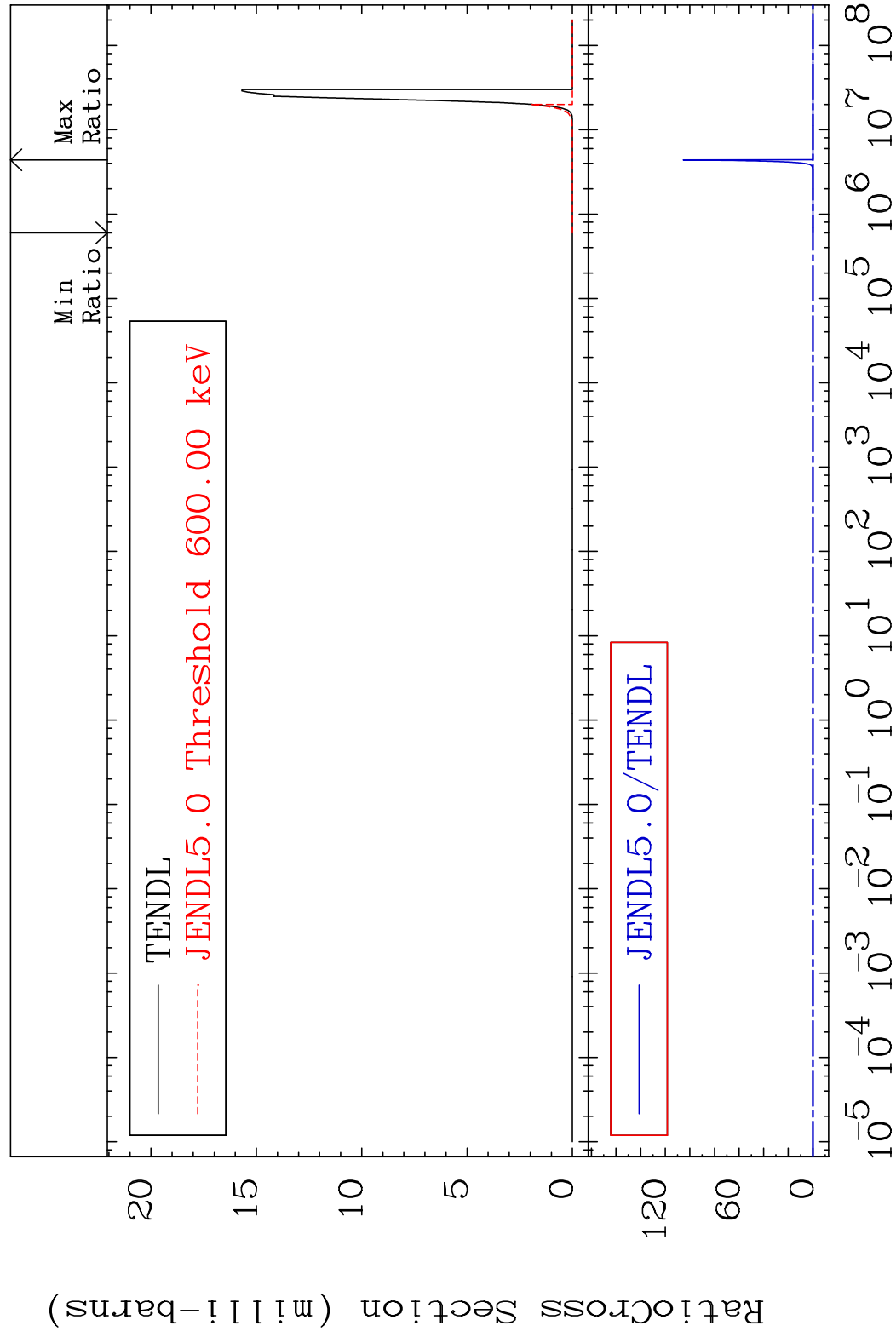


MAT 8025

(n, n') α

80-Hg-196

Cross Section -100.0 To 9999. %

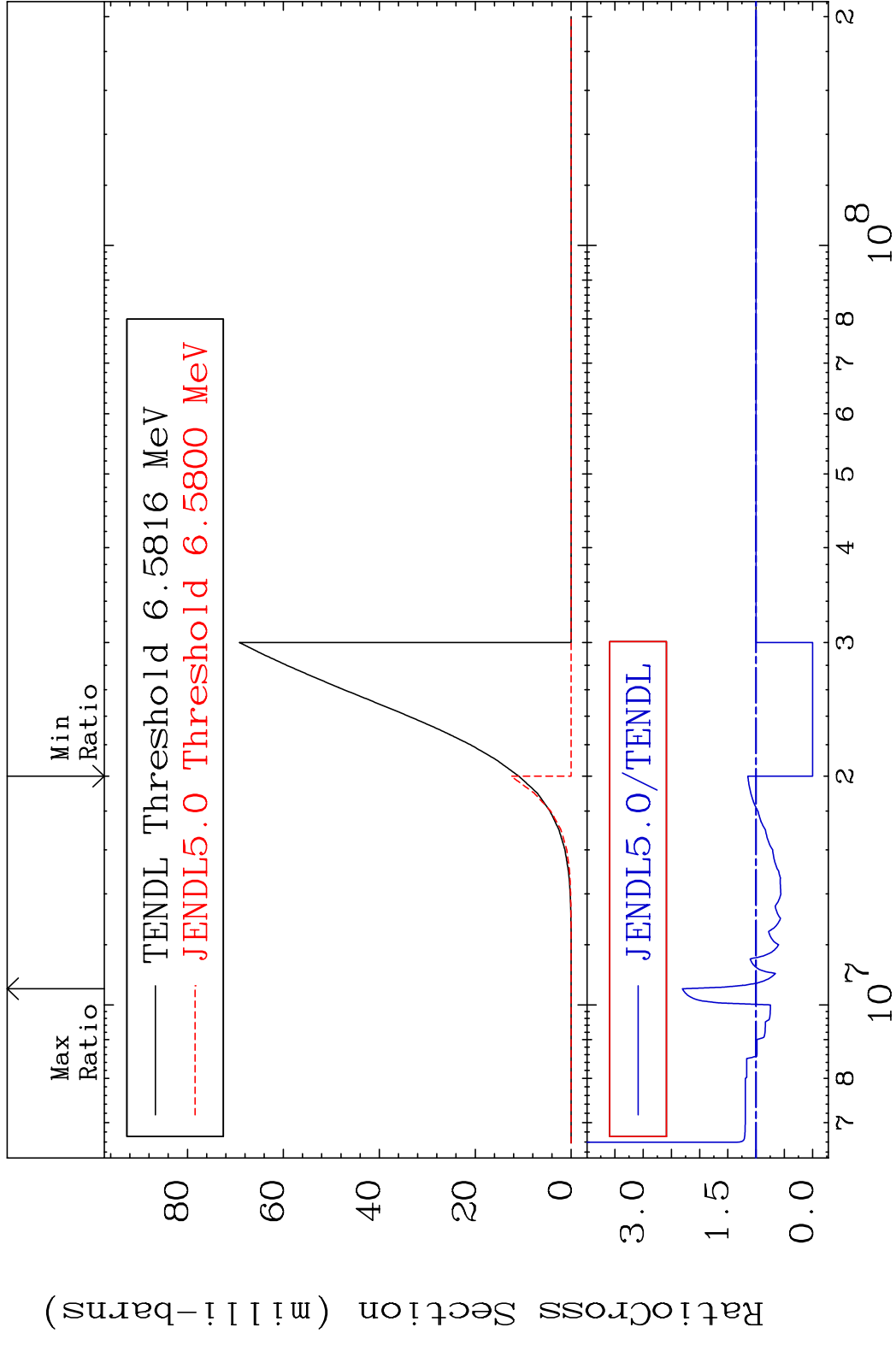


7

Incident Energy (eV)

80-Hg-196

MAT 8025 (n, n') p 80-Hg-196
 Cross Section -100.0 To 130.6 %



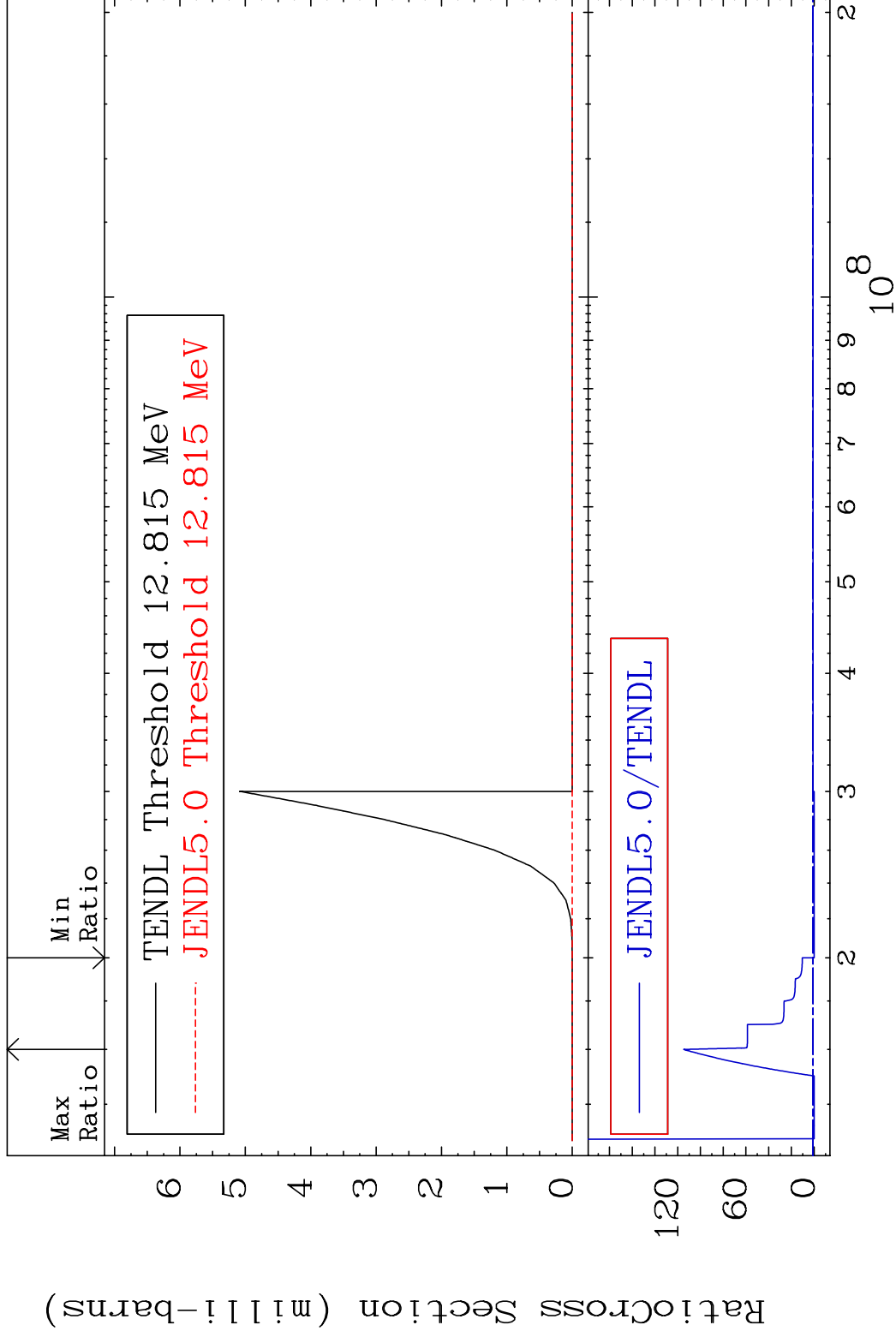
8 8 80-Hg-196

MAT 8025

(n, n') d

80-Hg-196

Cross Section -100.0 To 9999. %

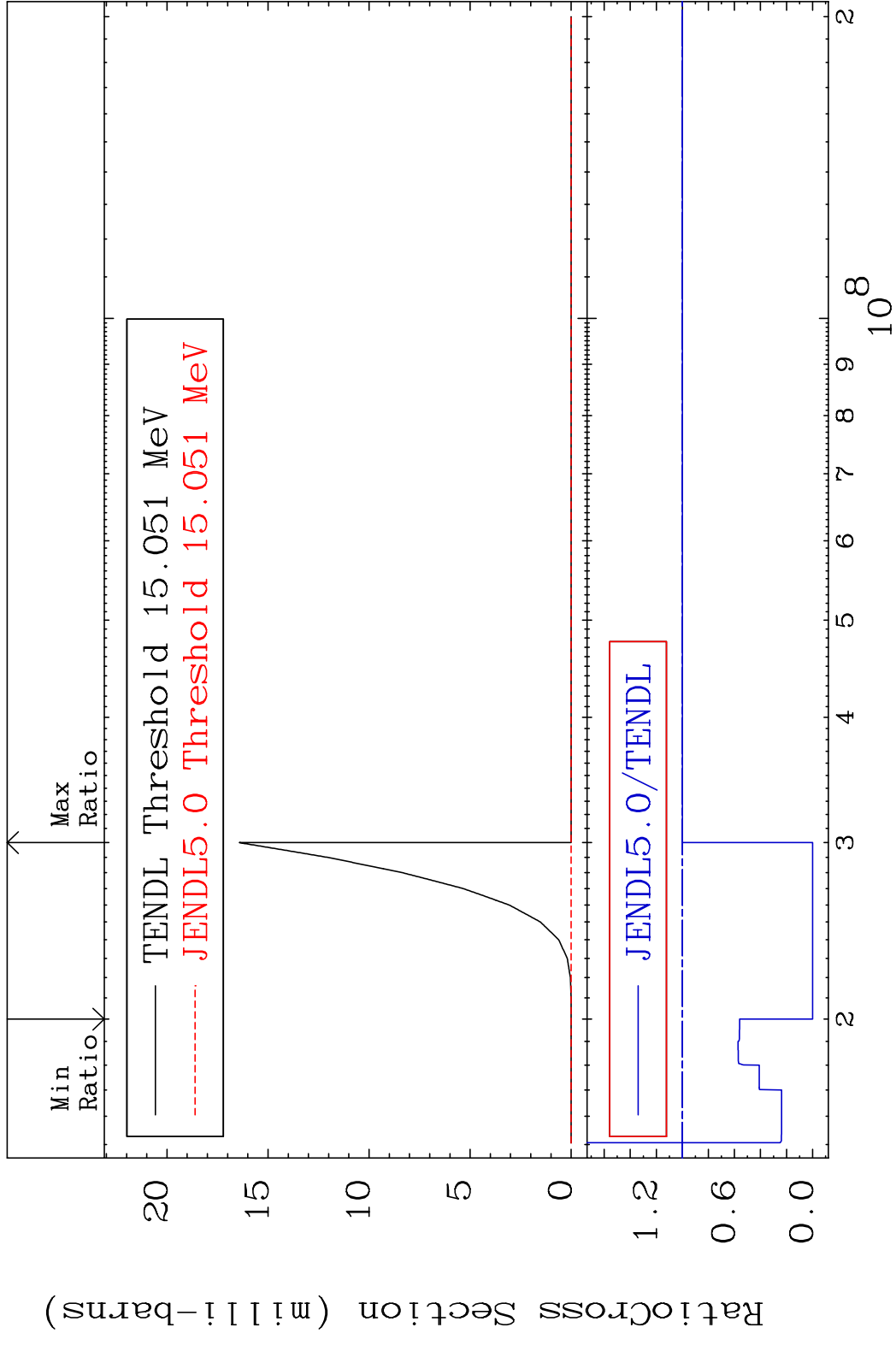


9

Incident Energy (eV)

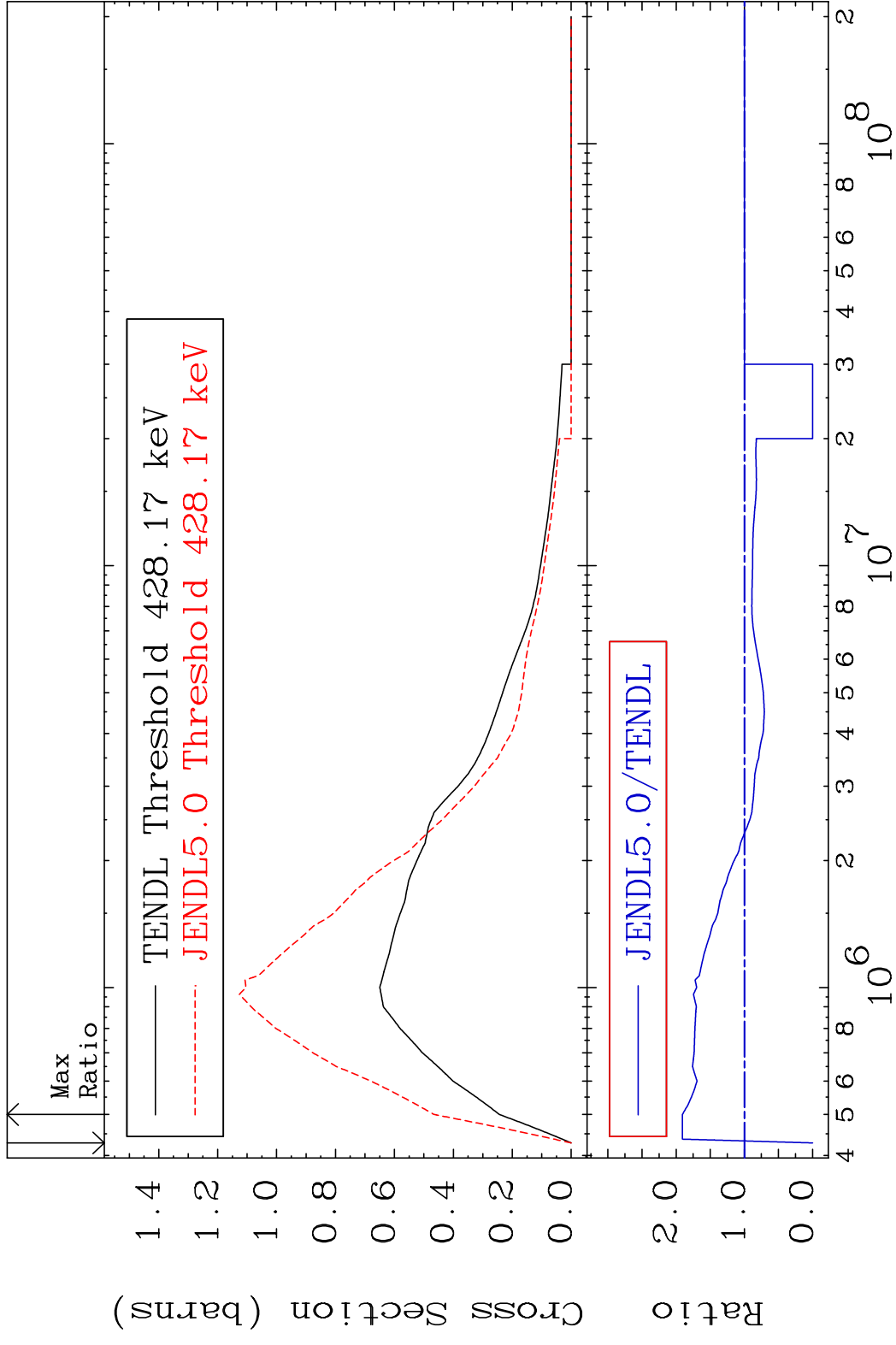
80-Hg-196

MAT 8025 (n,2n) p 80-Hg-196
 Cross Section -100.0 To 0.000 %

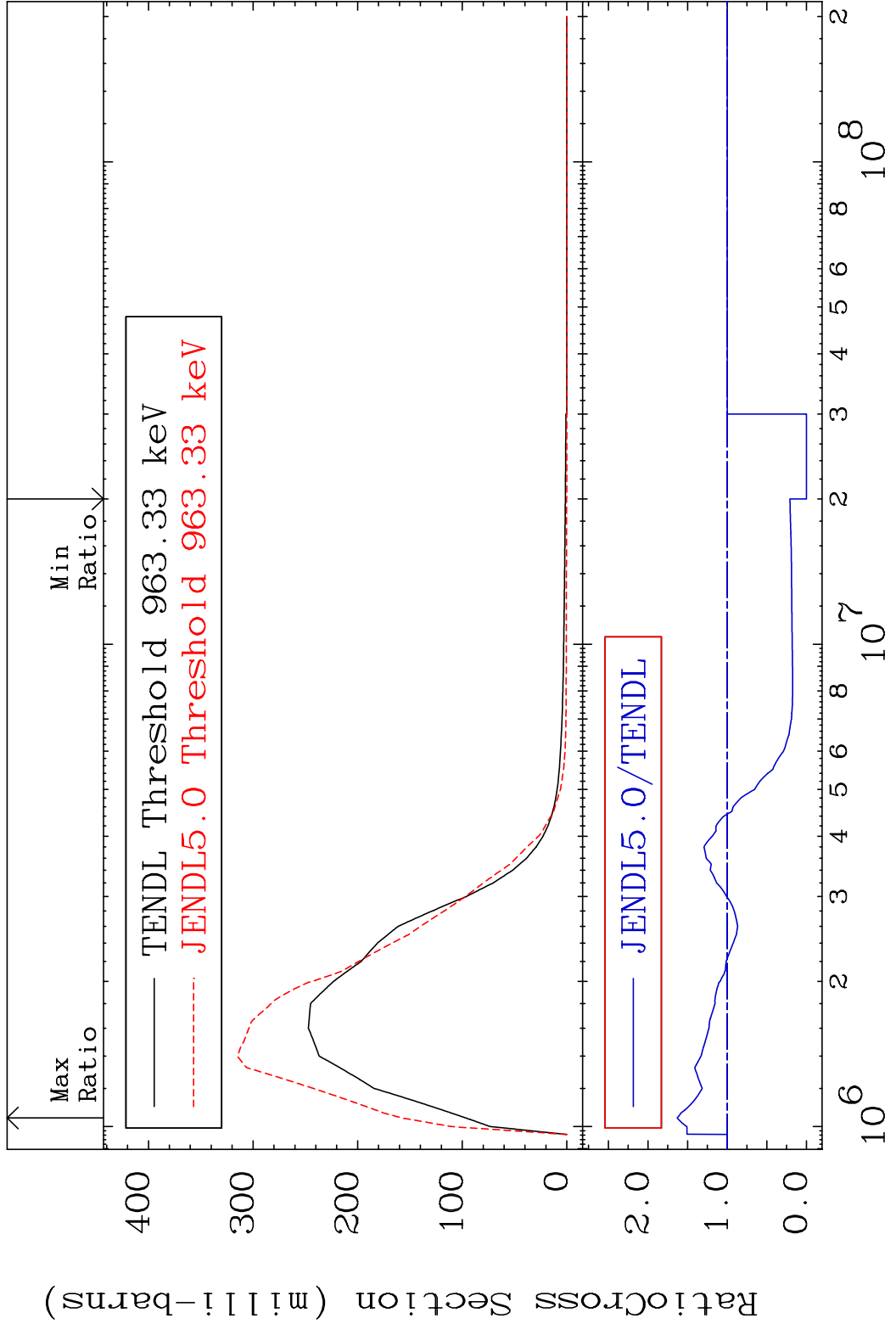


10 Incident Energy (eV) 80-Hg-196

MAT 8025 MT= 51 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 90.88 %

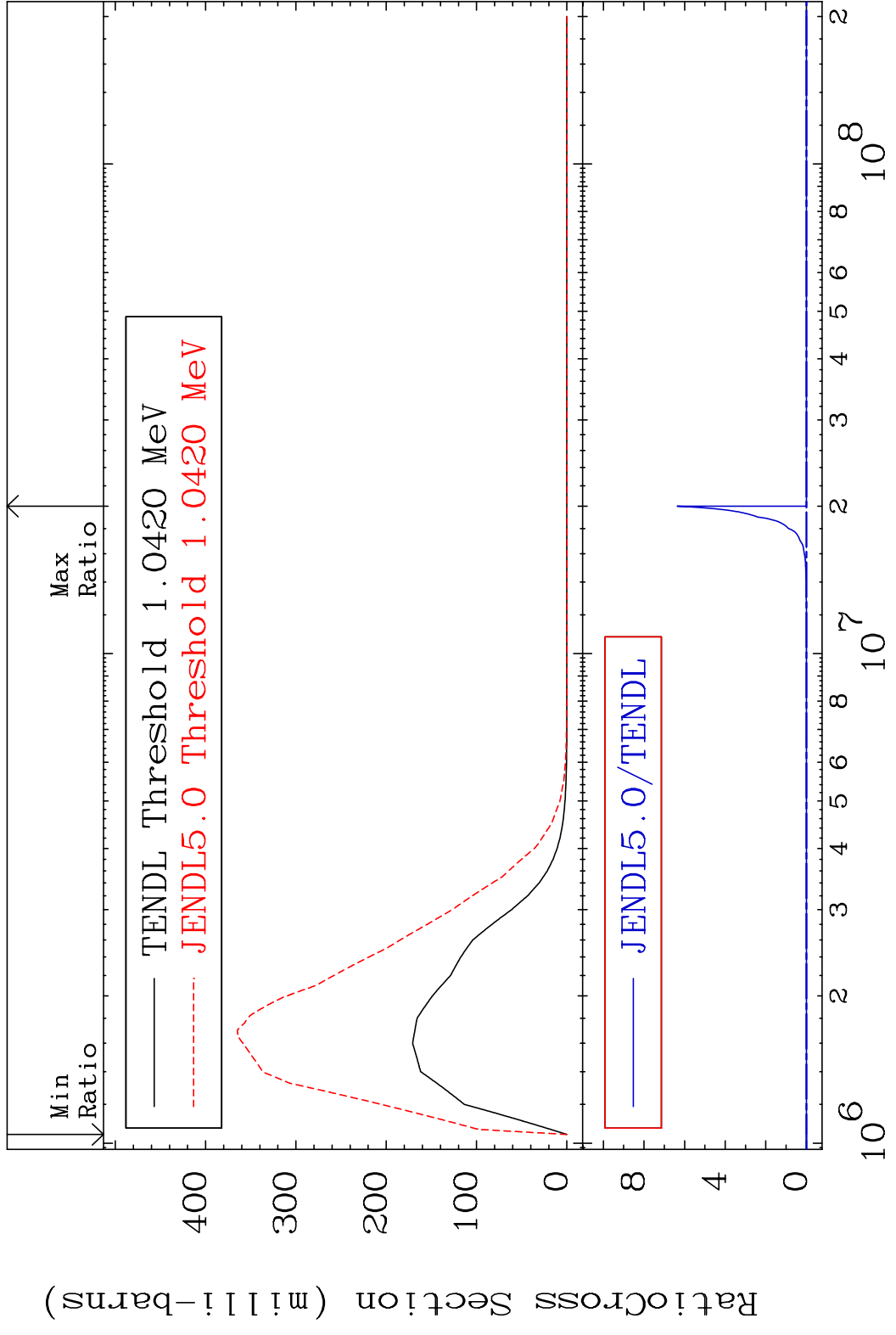


MAT 8025 MT= 52 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 63.07 %



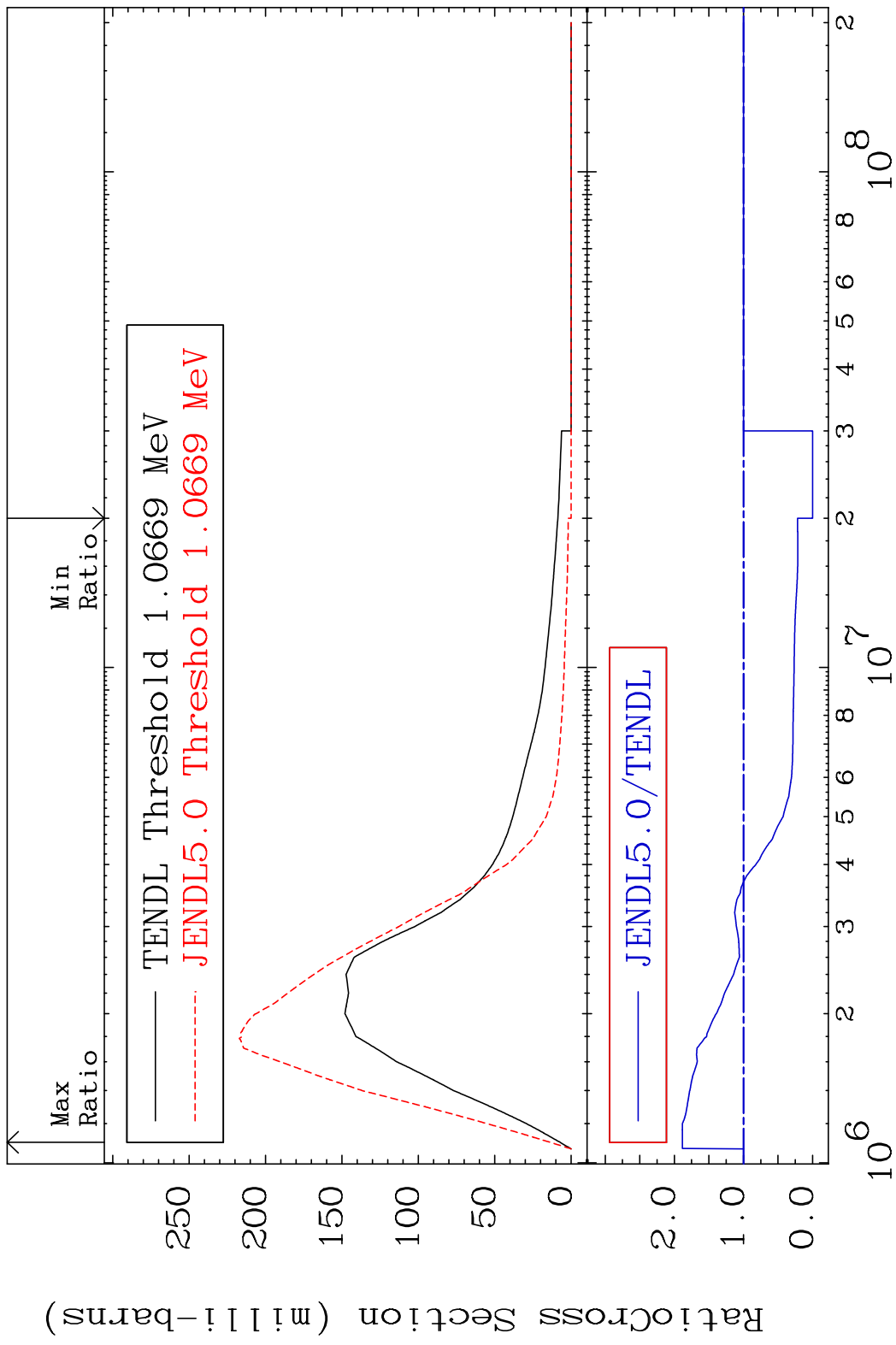
12 80-Hg-196

MAT 8025 MT= 53 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 9999. %

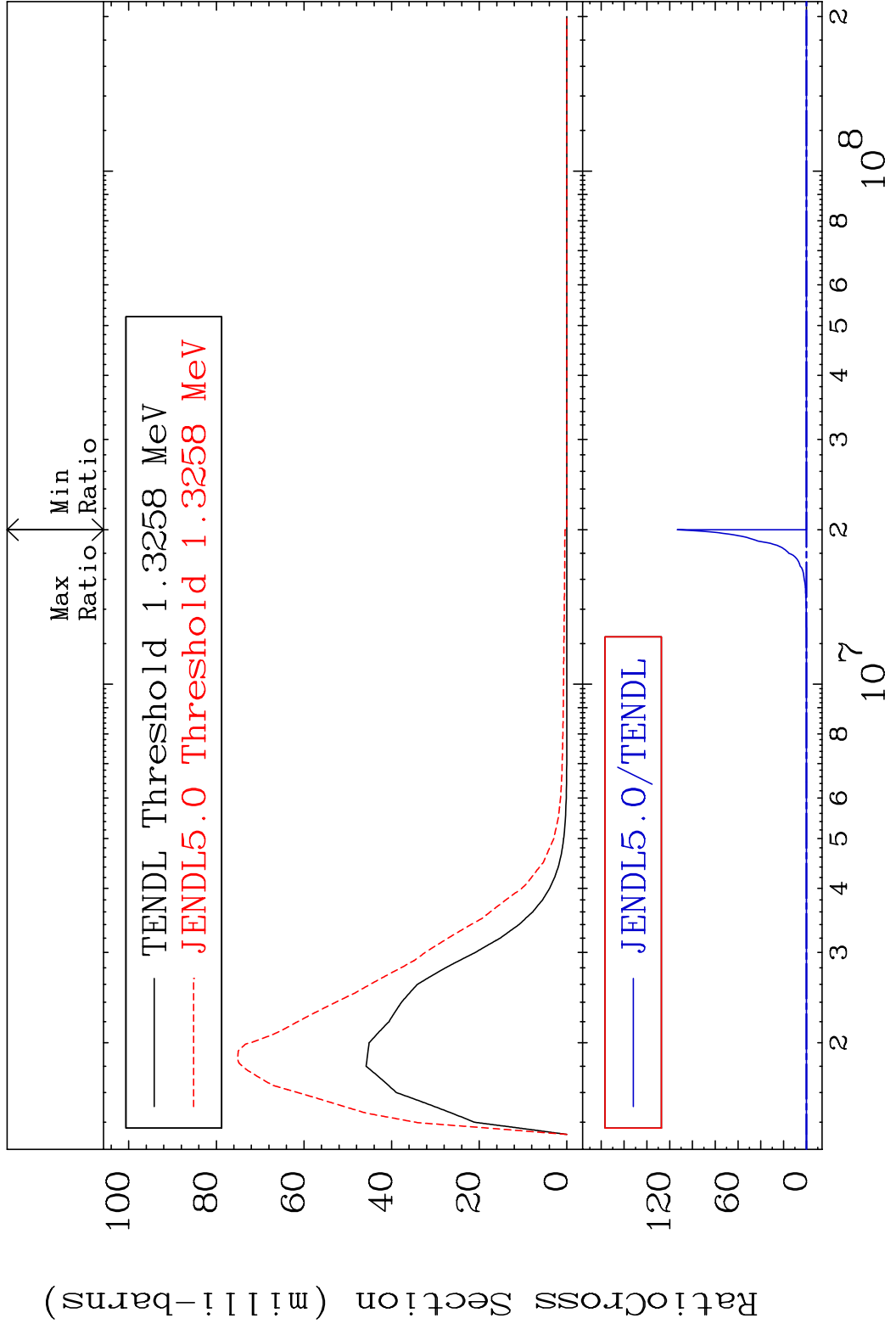


13

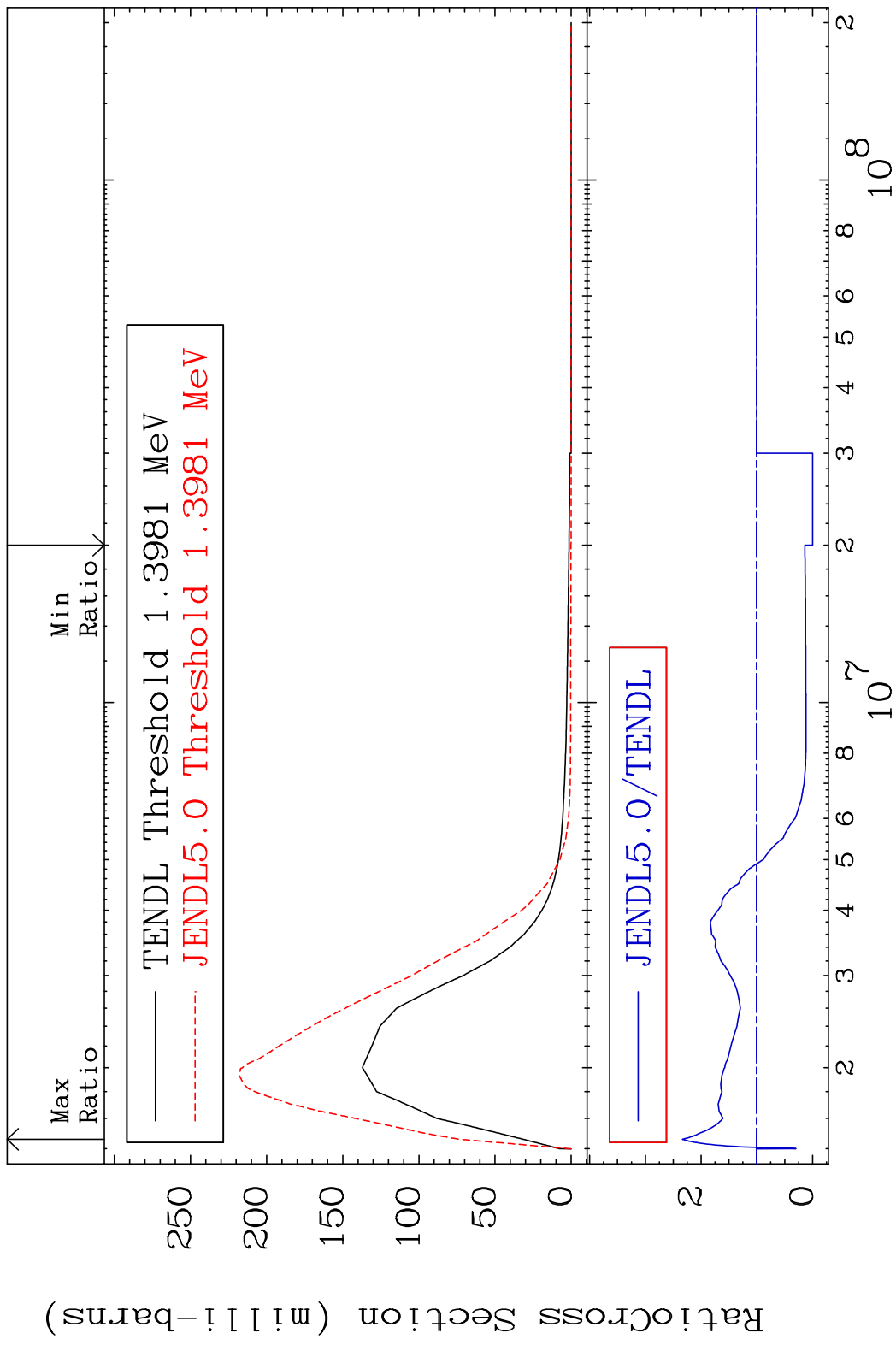
MAT 8025 MT= 54 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 88.41 %



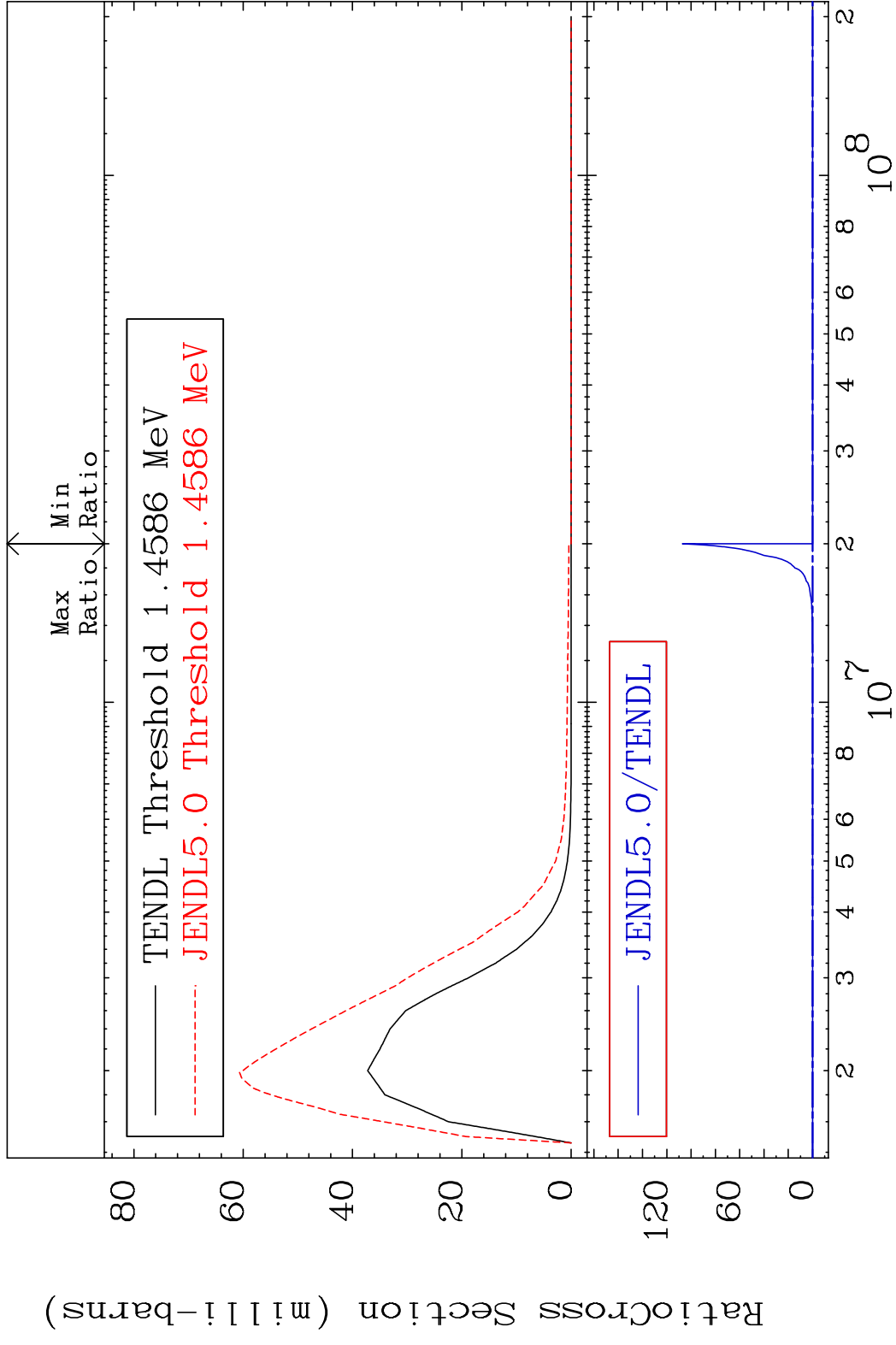
MAT 8025 MT= 55 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 9999. %



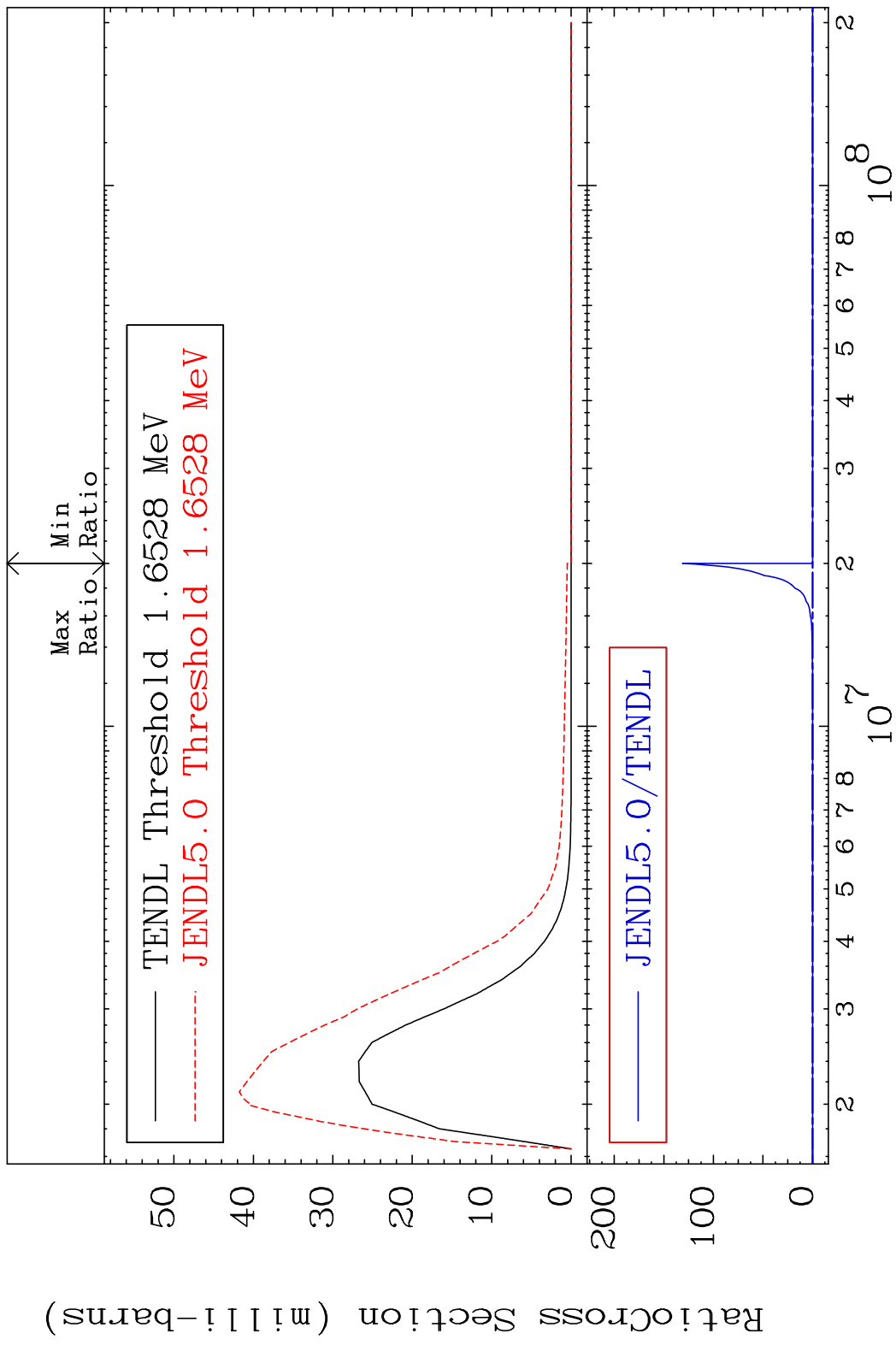
MAT 8025 MT= 56 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 133.6 %



MAT 8025 MT= 57 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 9999. %

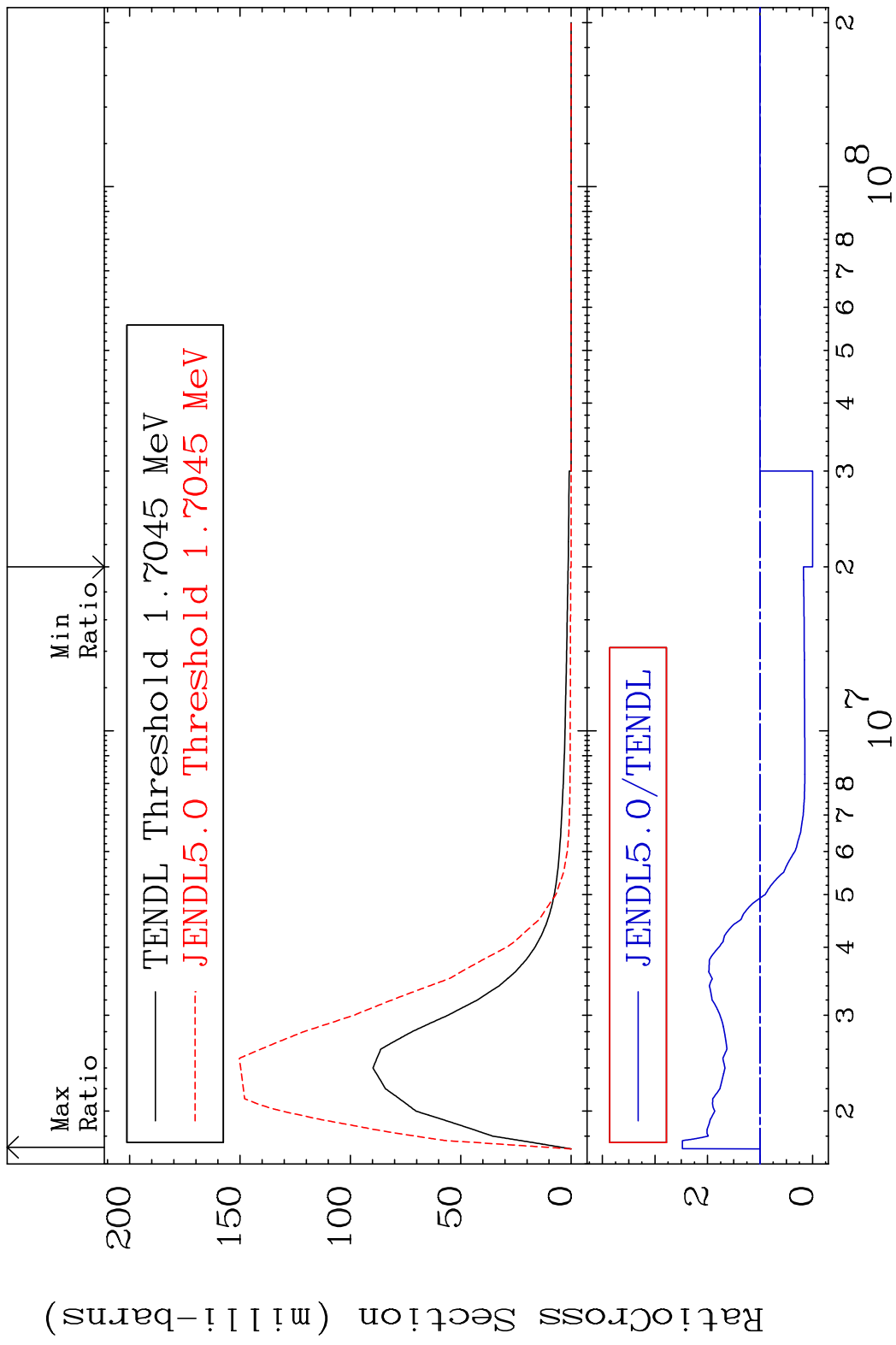


MAT 8025 MT= 58 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 9999. %

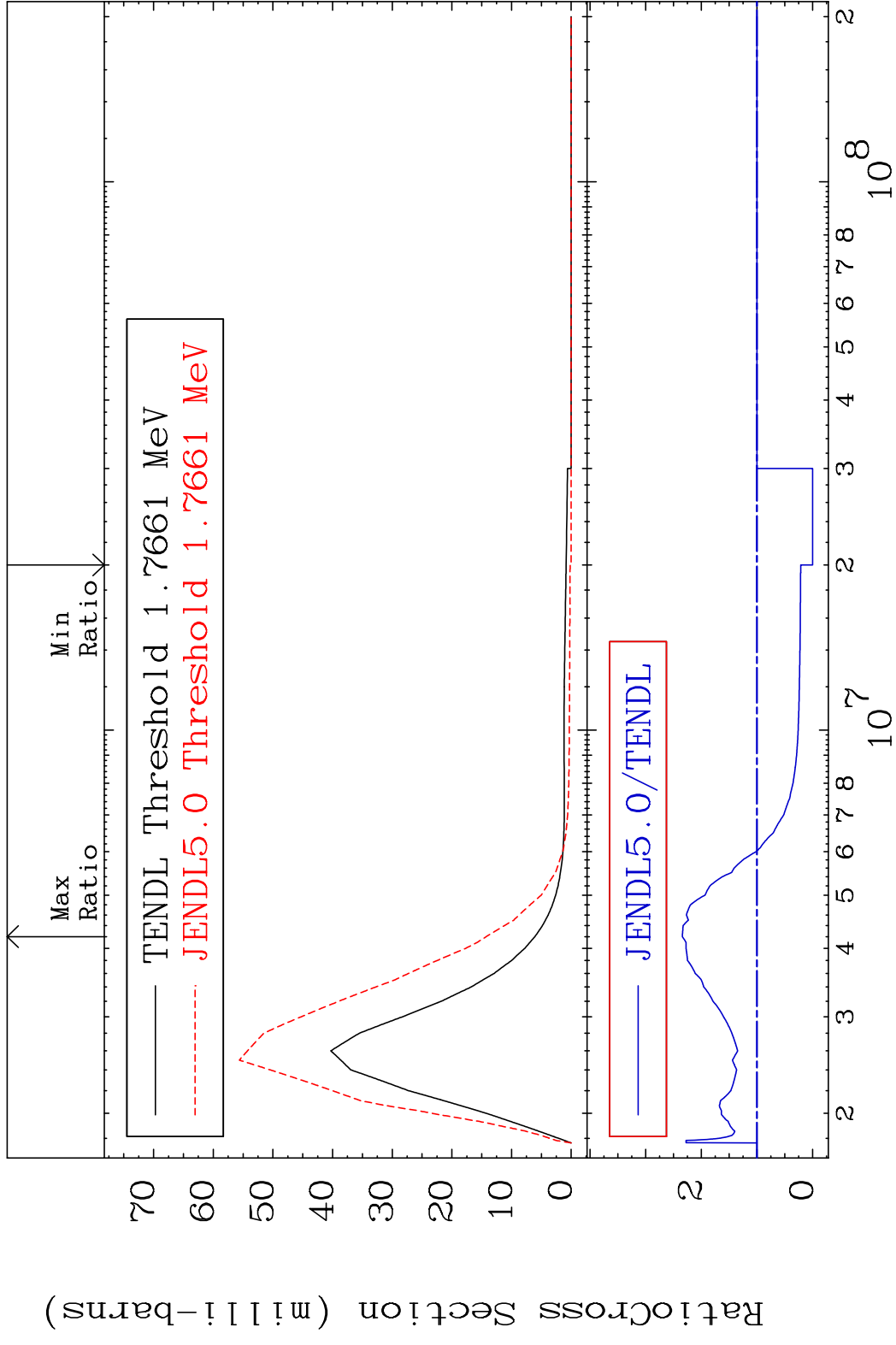


18 80-Hg-196

MAT 8025 MT= 59 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 147.9 %

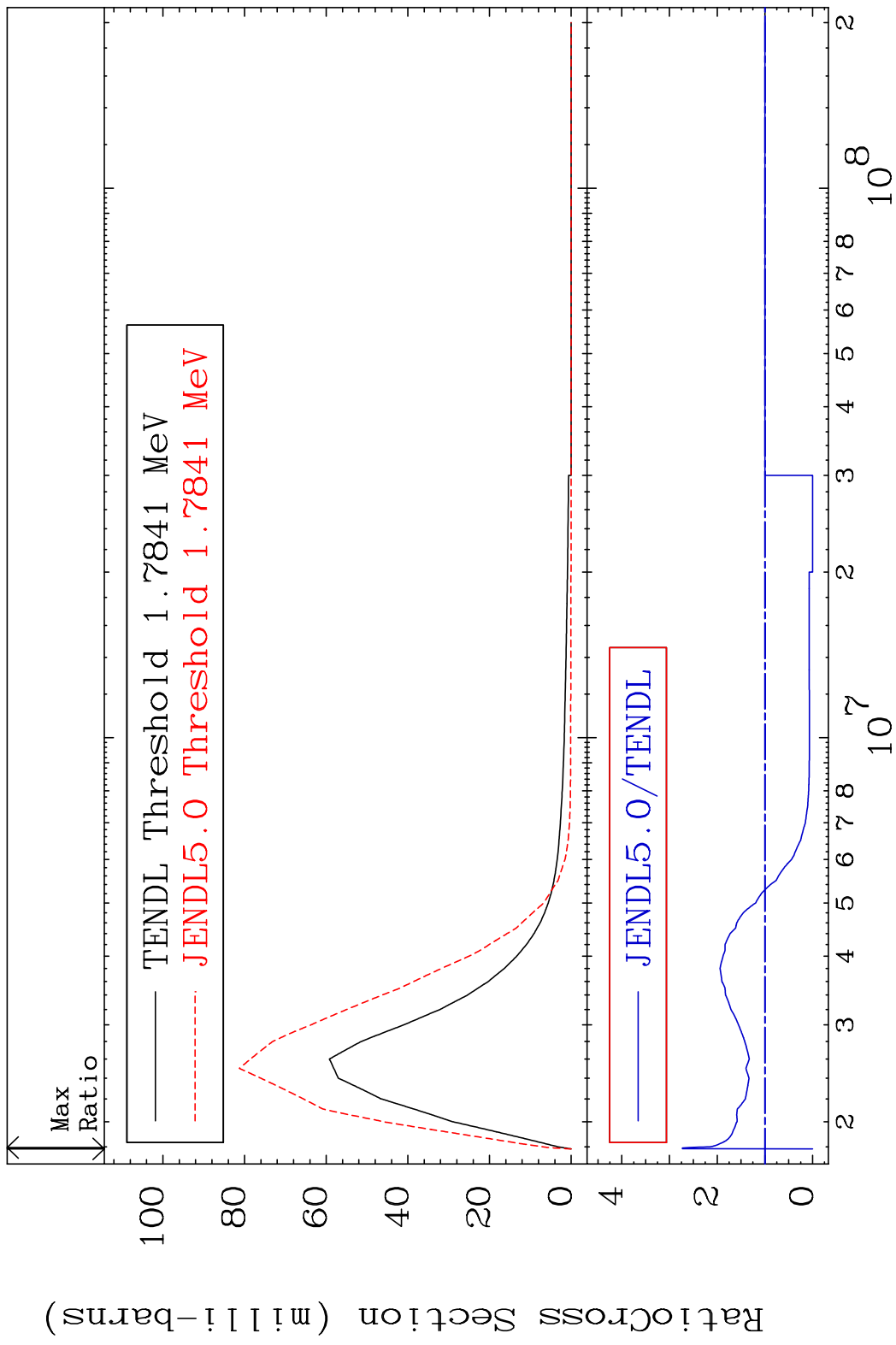


MAT 8025 MT= 60 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 134.0 %

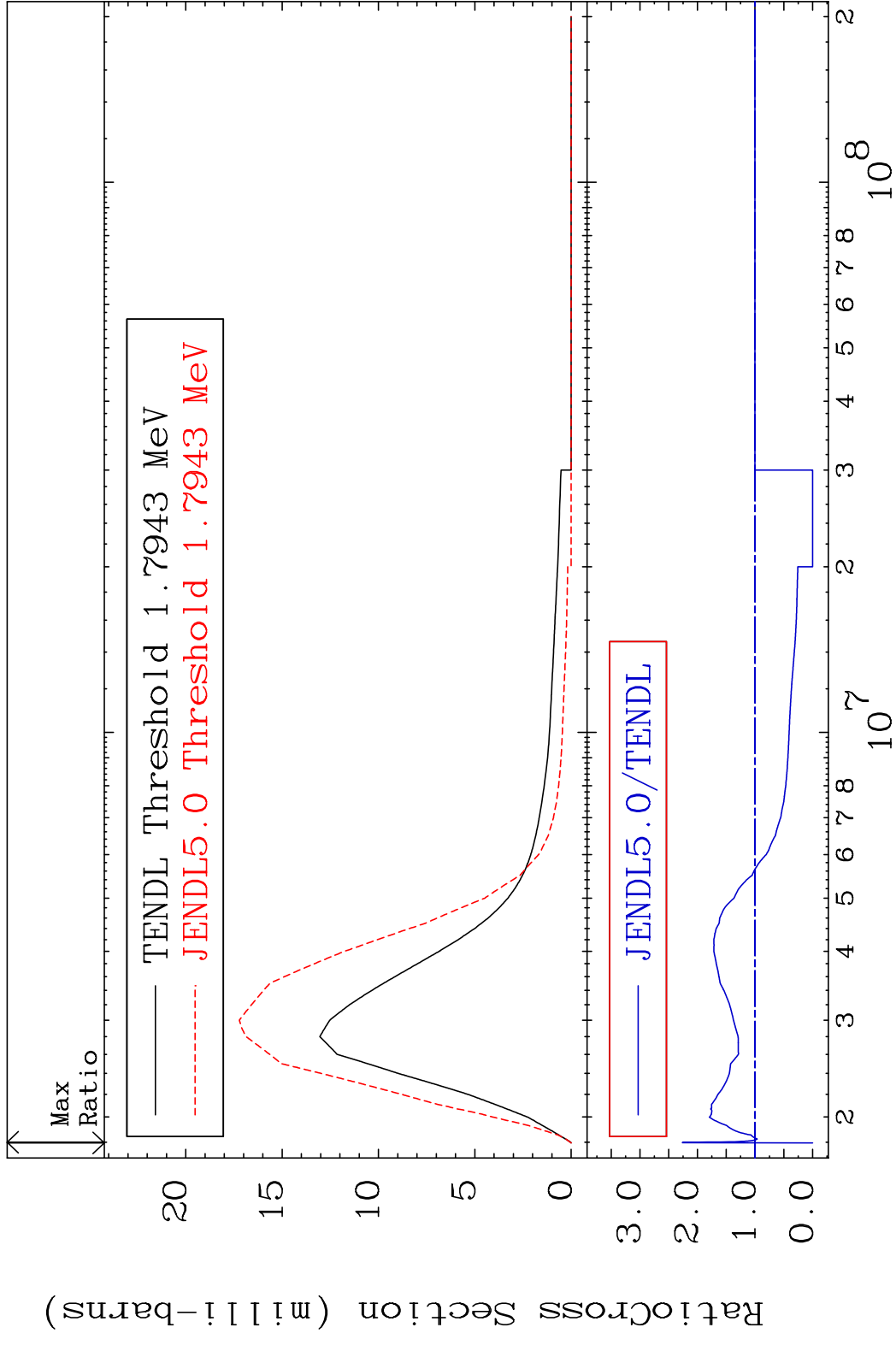


20 20 80-Hg-196

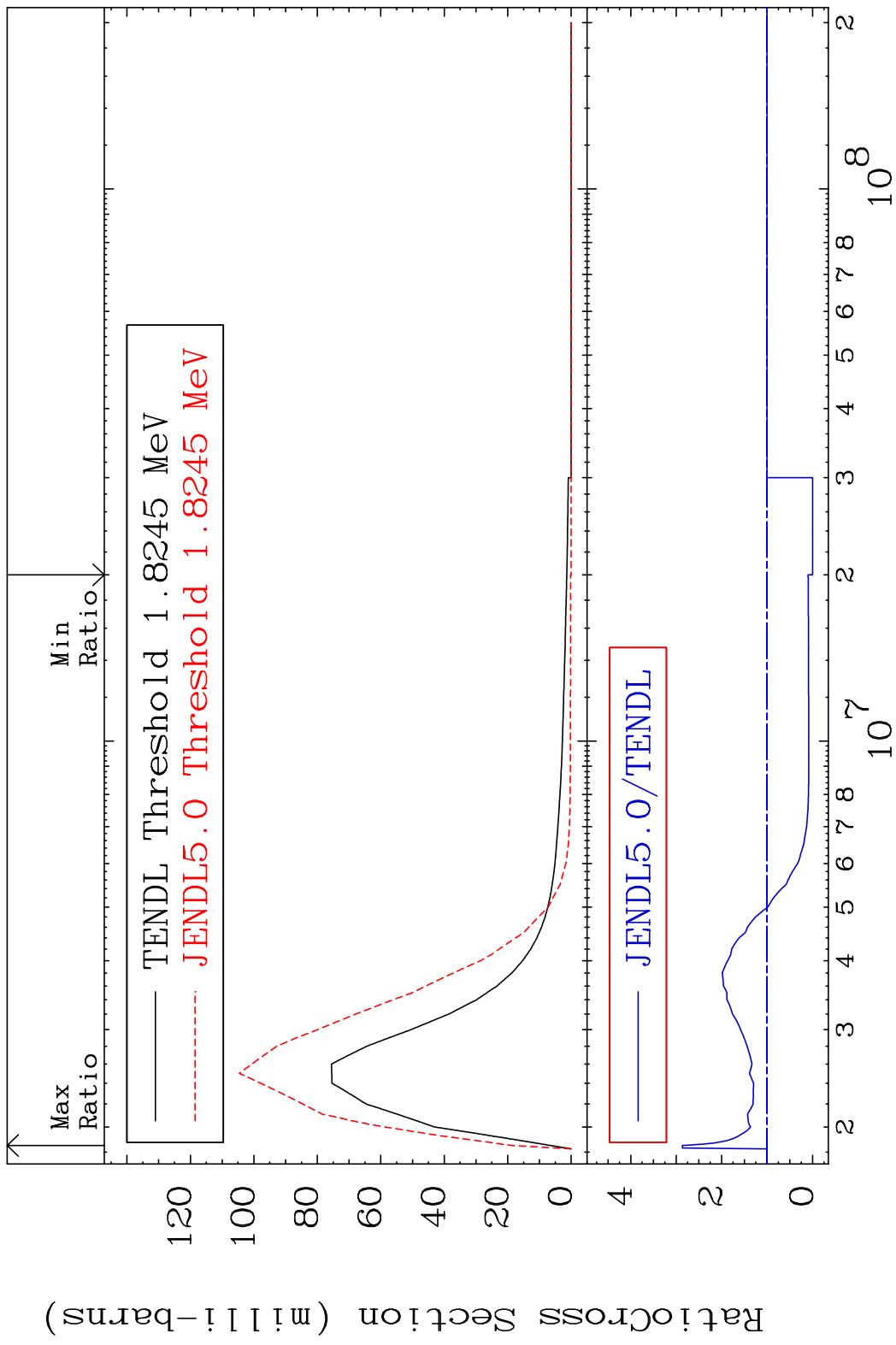
MAT 8025 MT= 61 (n,n') Level 80-Hg-196
 Cross Section -100.0 To 173.0 %



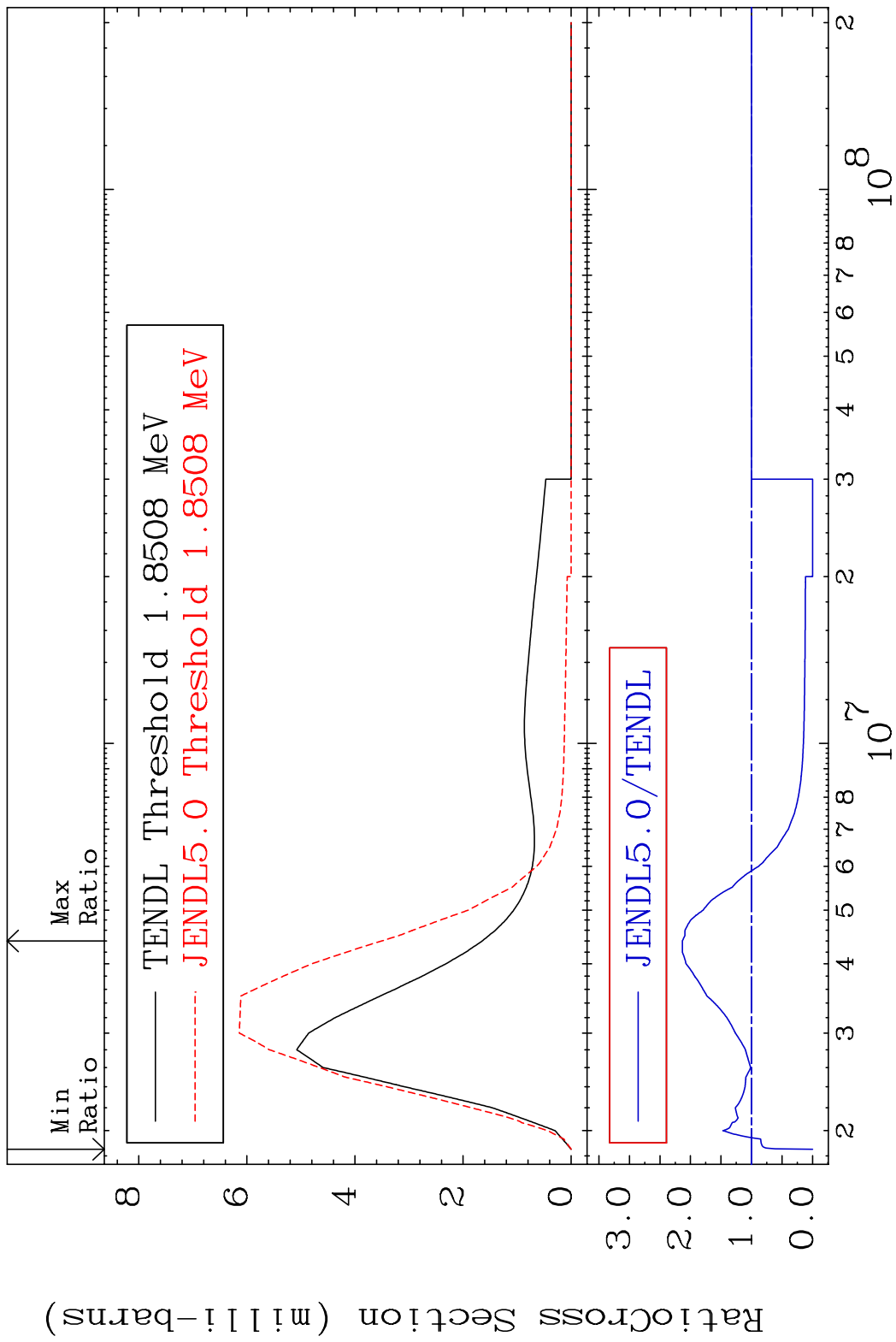
MAT 8025 MT= 62 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 126.3 %



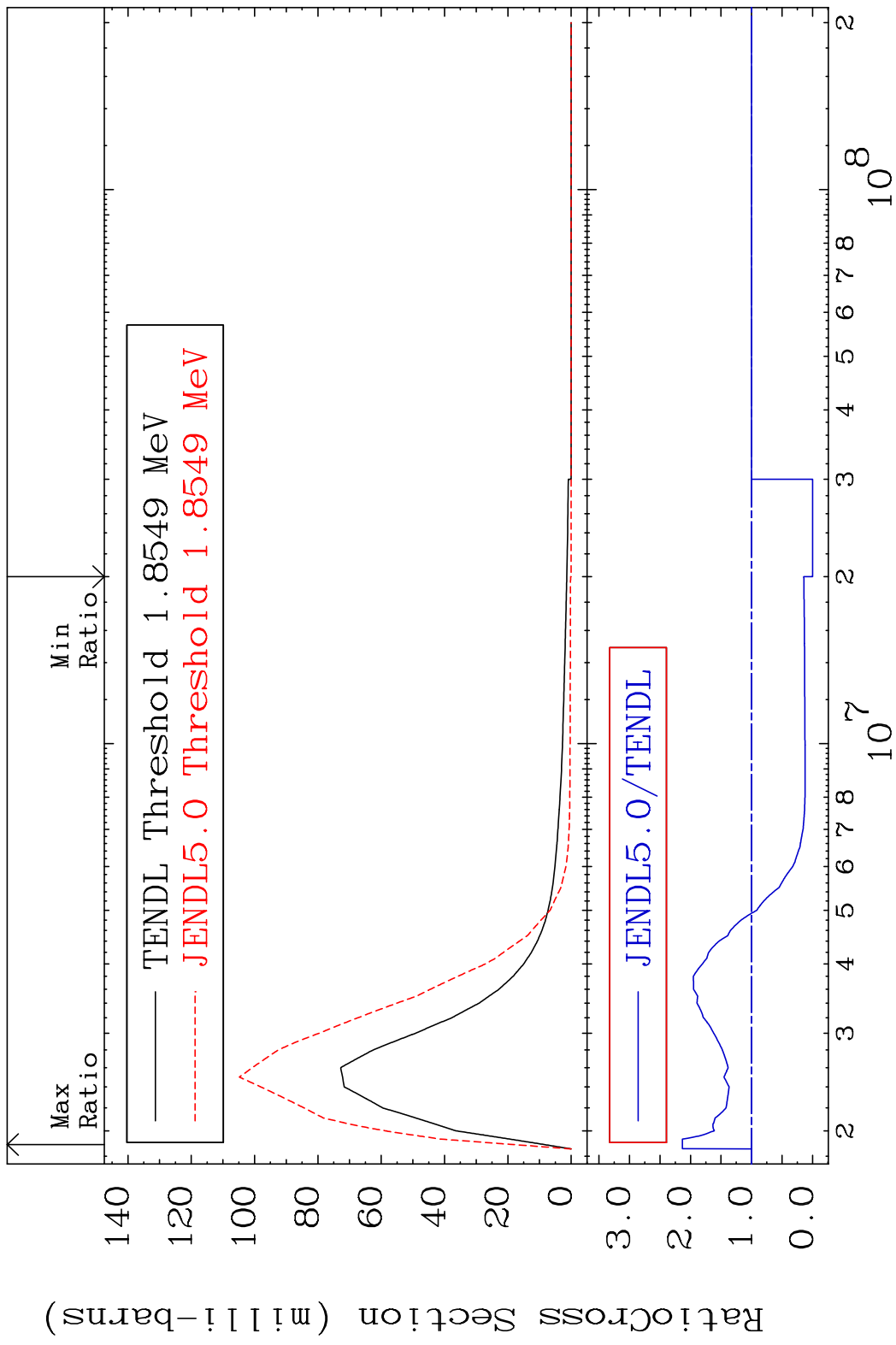
MAT 8025 MT= 63 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 186.4 %



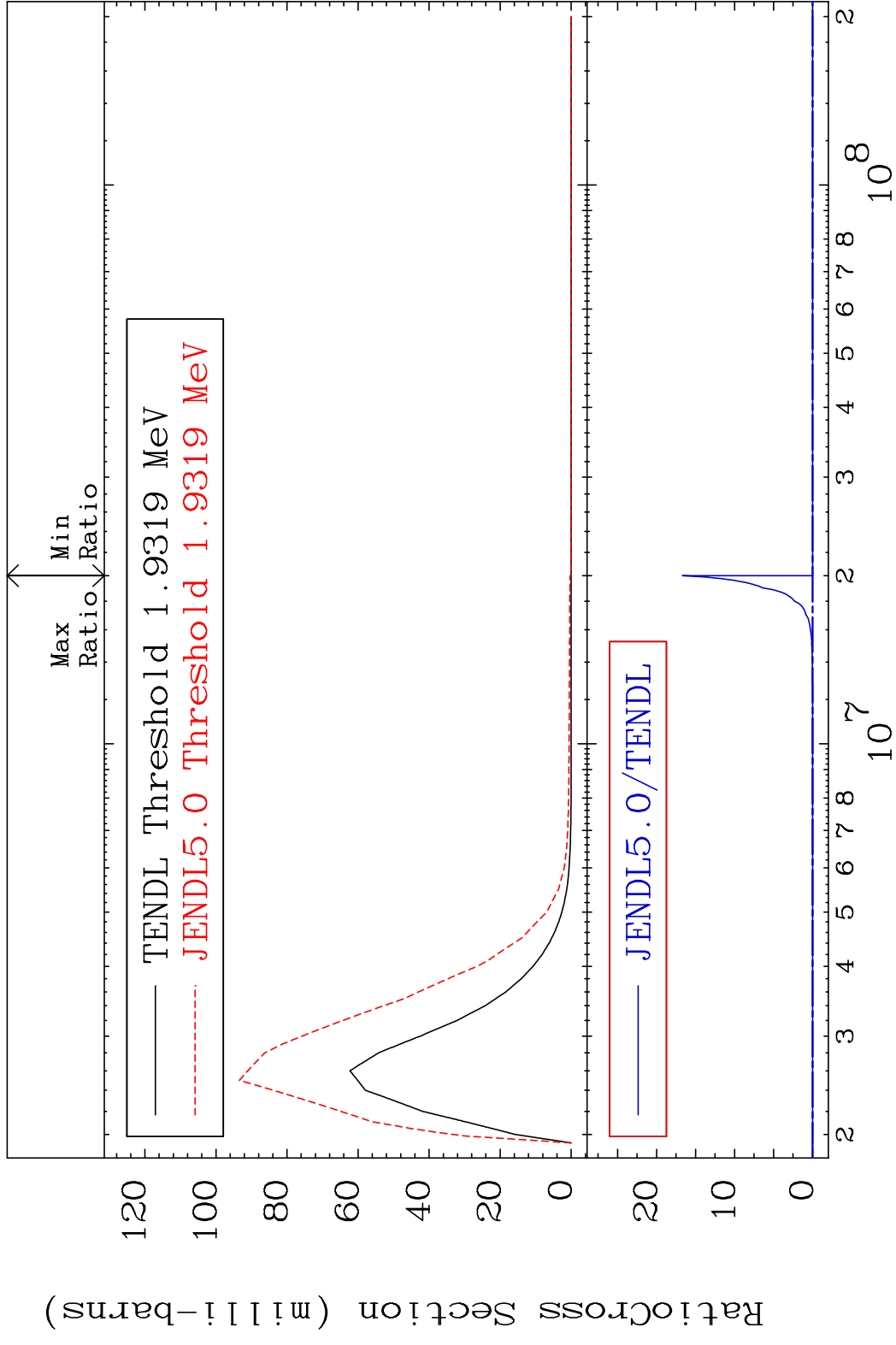
MAT 8025 MT= 64 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 113.3 %



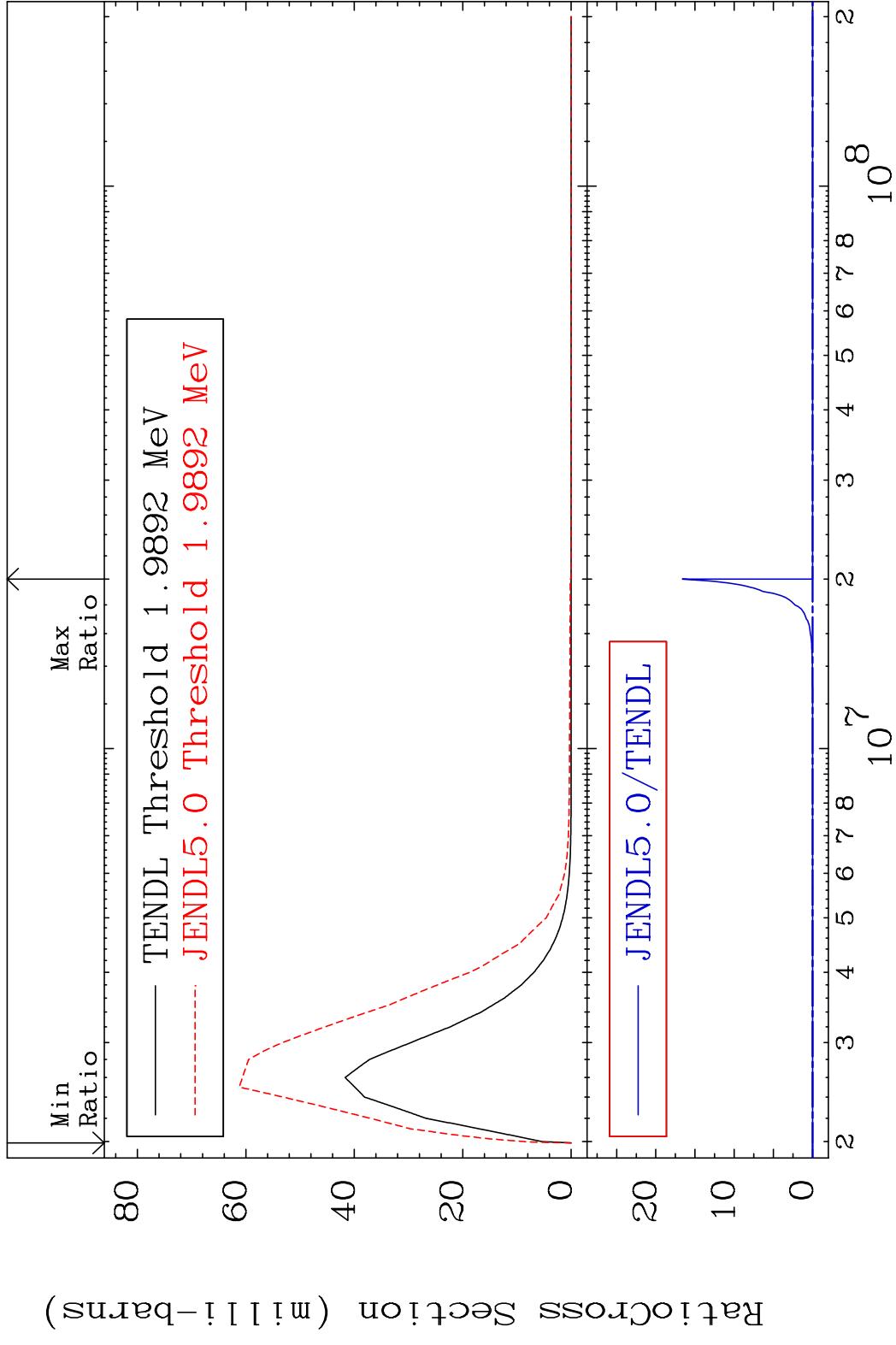
MAT 8025 MT= 65 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 113.4 %



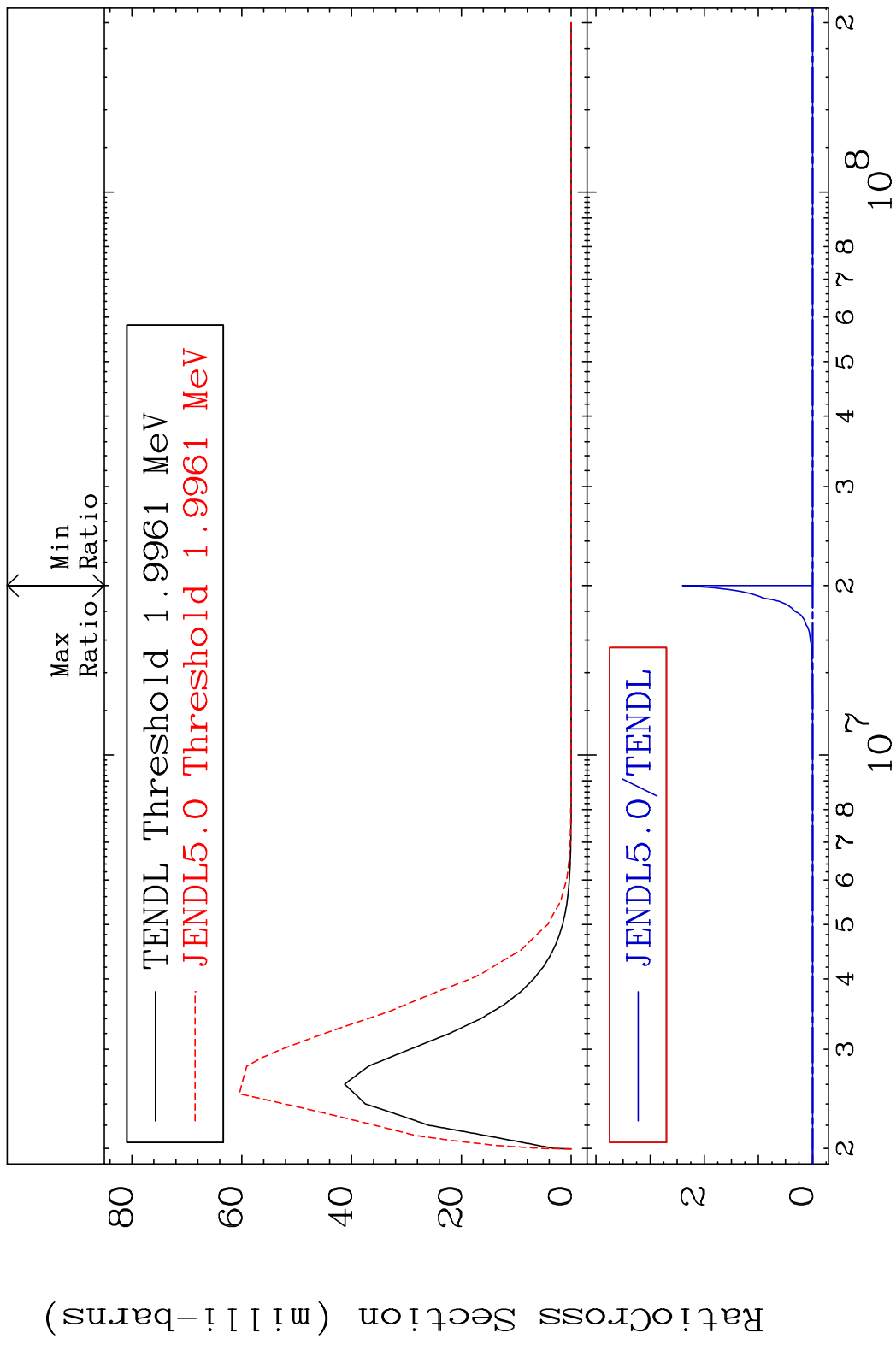
MAT 8025 MT= 66 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 9999. %



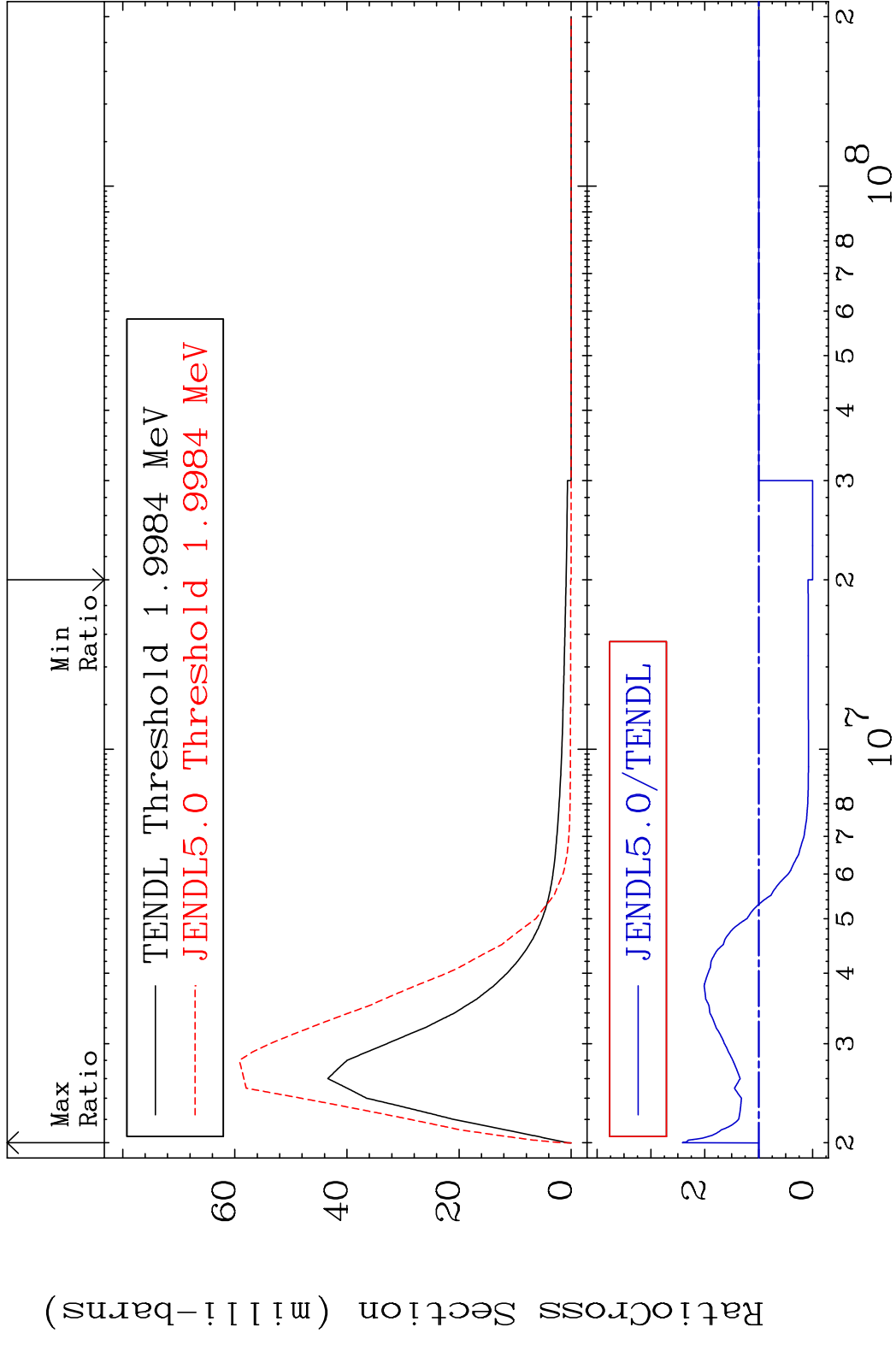
MAT 8025 MT= 67 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 9999. %



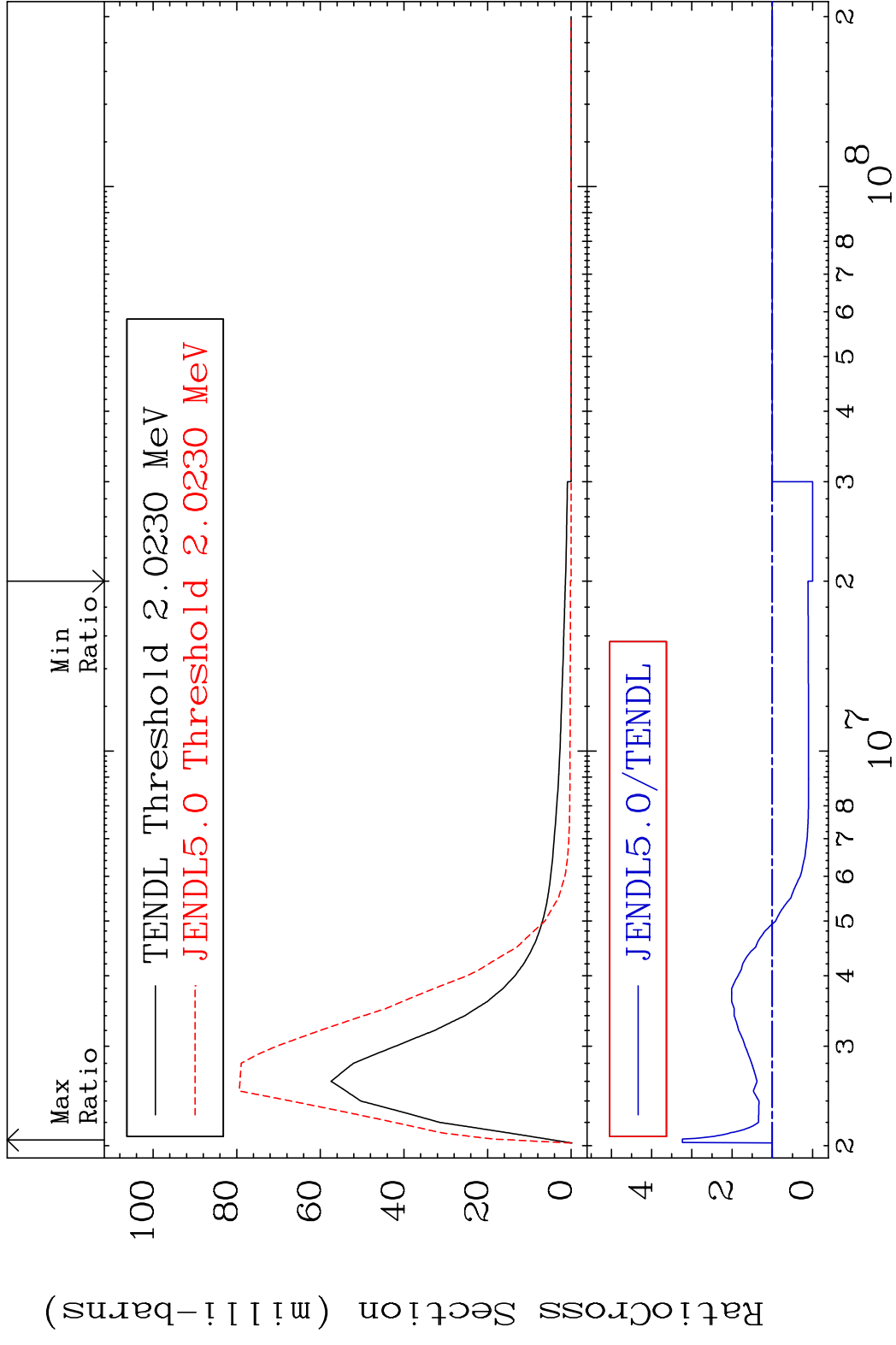
MAT 8025 MT= 68 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 9999. %



MAT 8025 MT= 69 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 141.7 %



MAT 8025 MT= 70 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 223.6 %

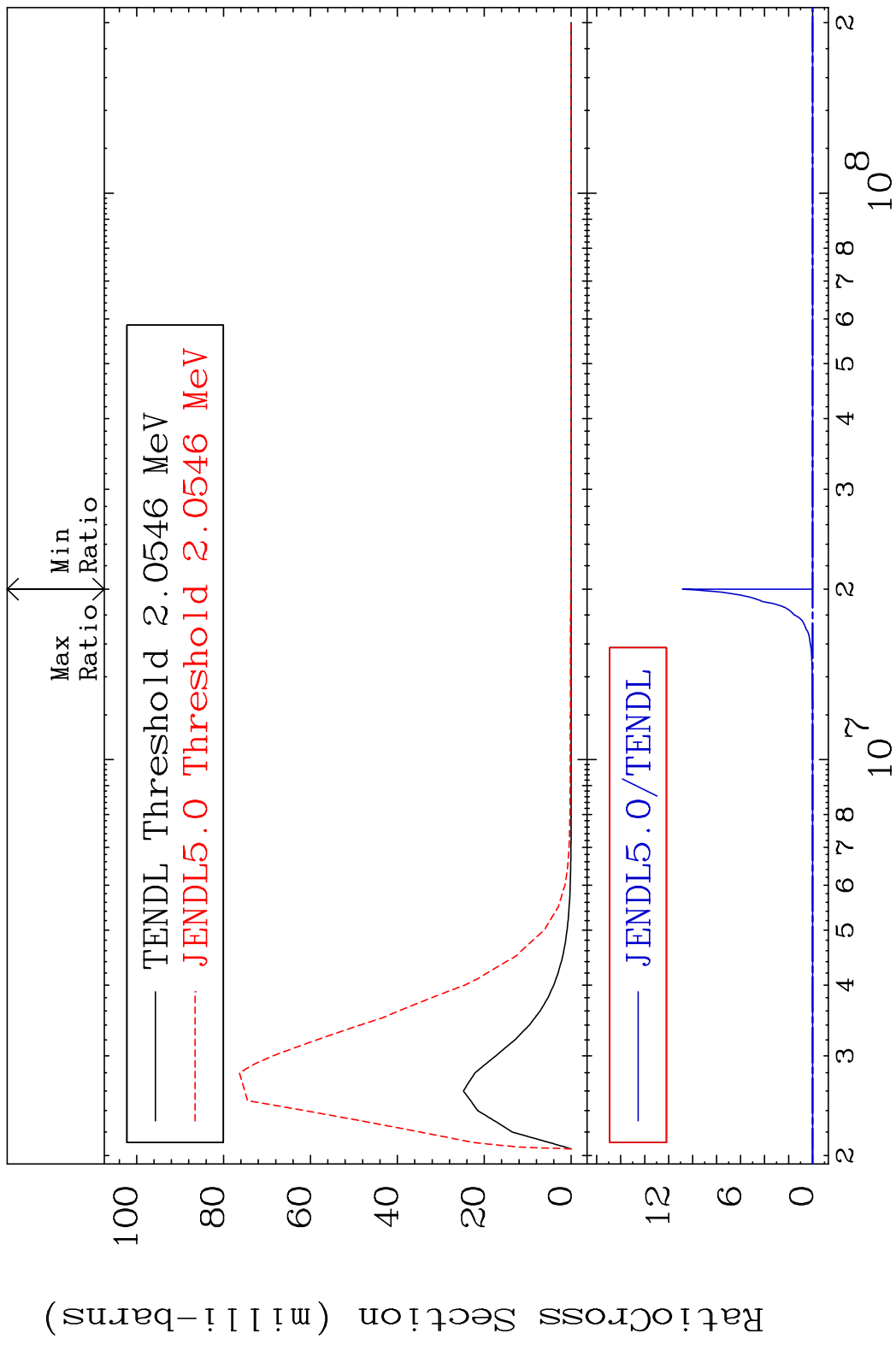


30

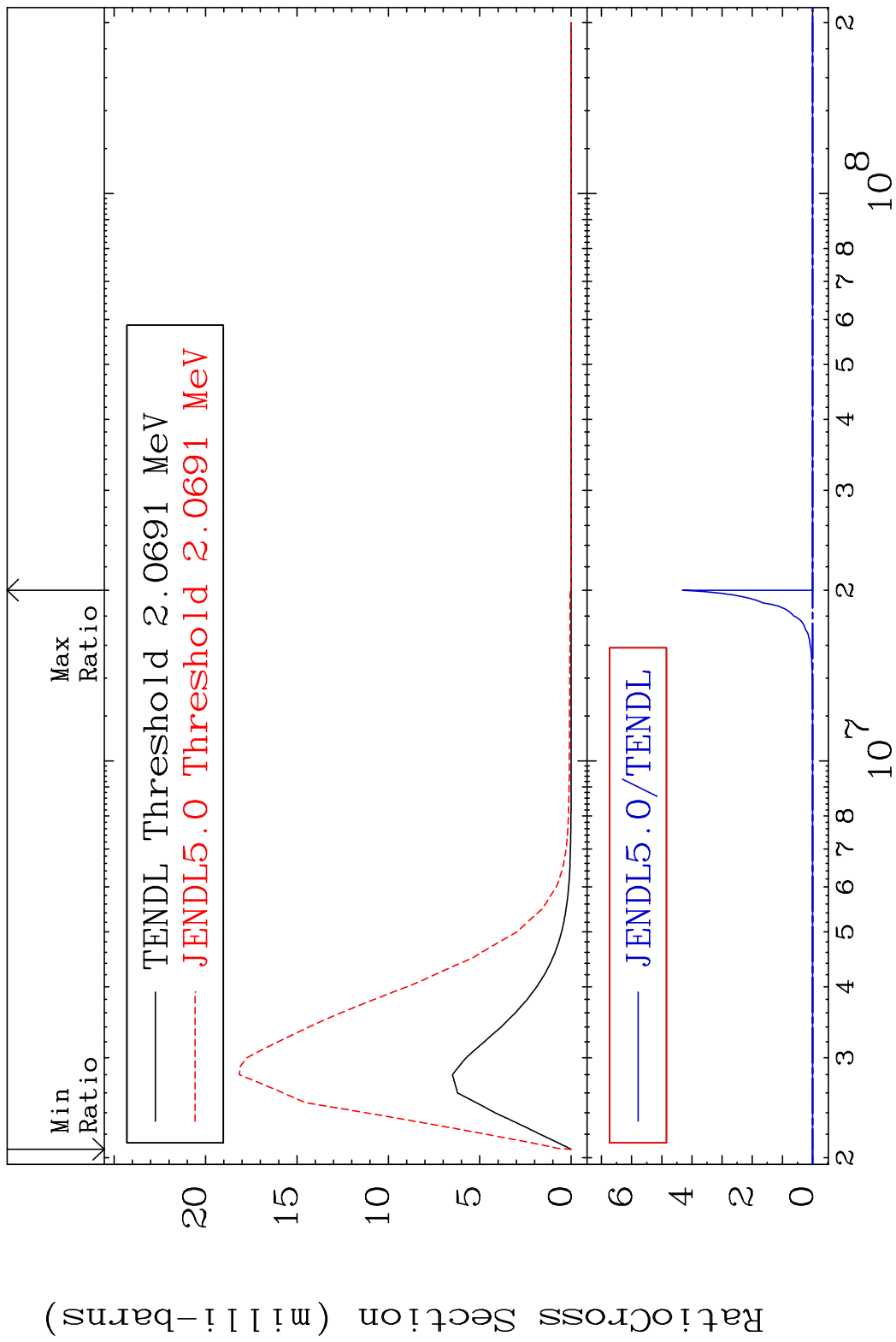
Incident Energy (eV)

80-Hg-196

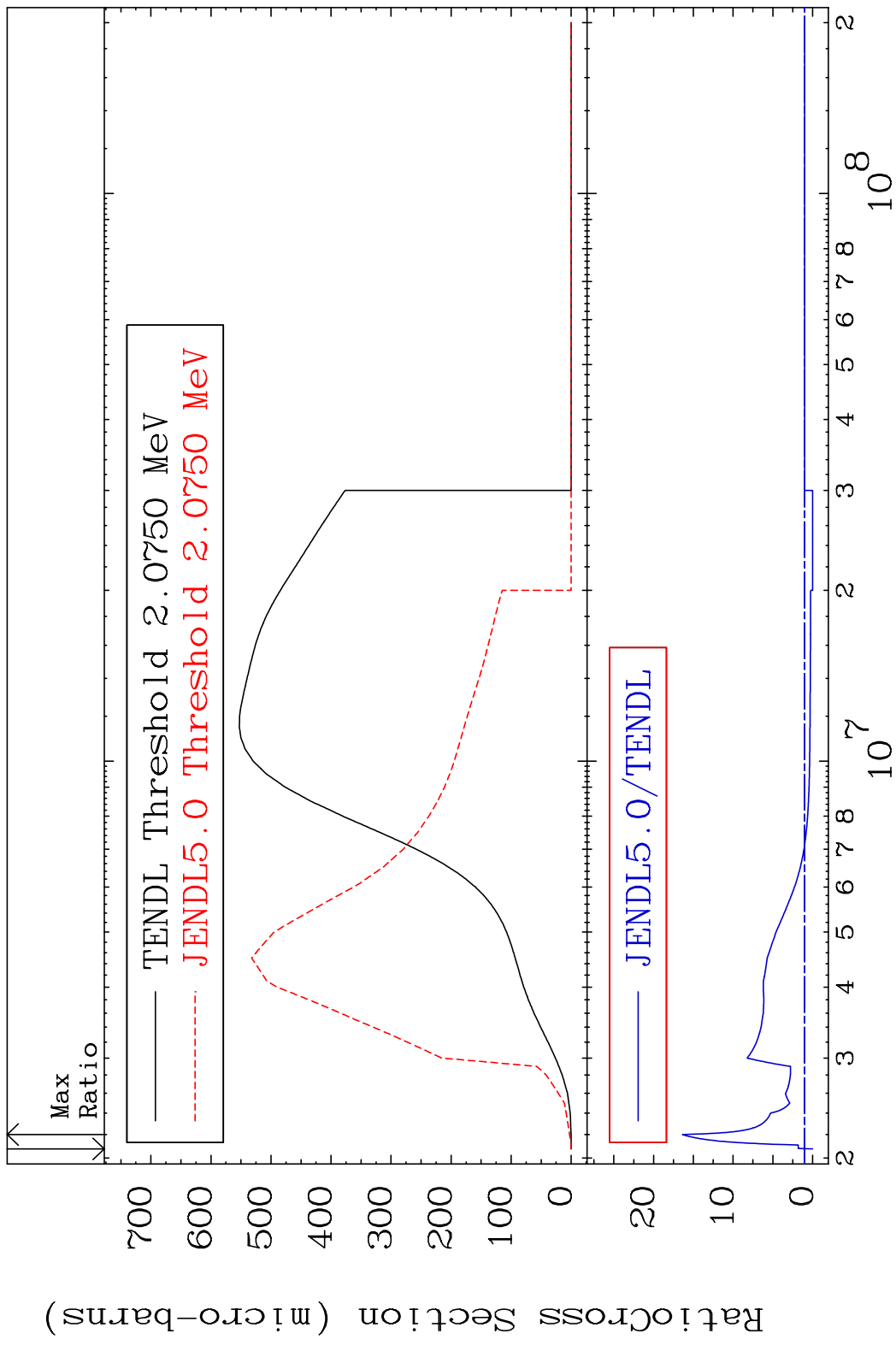
MAT 8025 MT= 71 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 9999. %



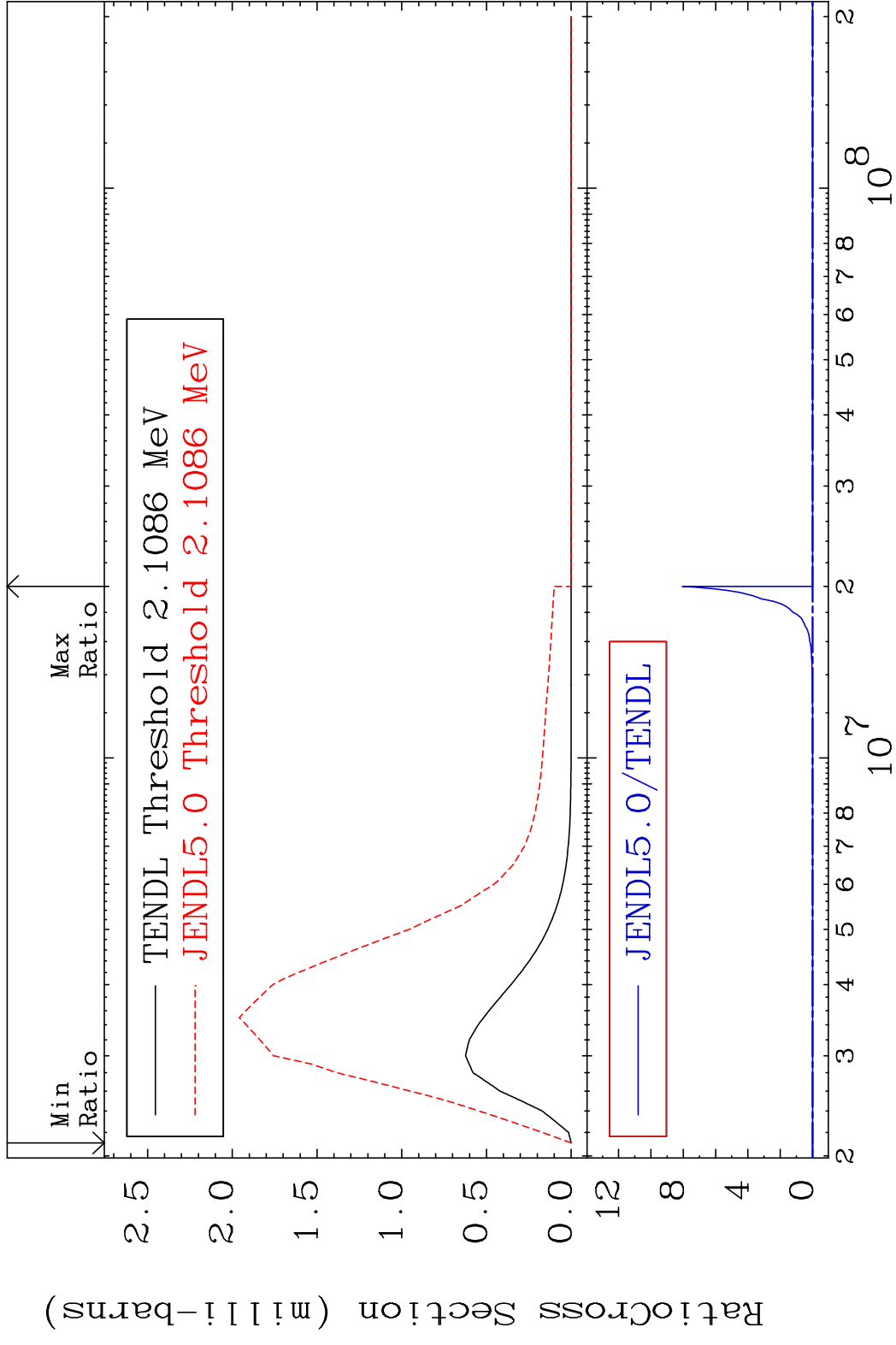
MAT 8025 MT= 72 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 9999. %



MAT 8025 MT= 73 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 1538. %



MAT 8025 MT= 74 (n, n') Level 80-Hg-196
 Cross Section -100.0 To 9999. %

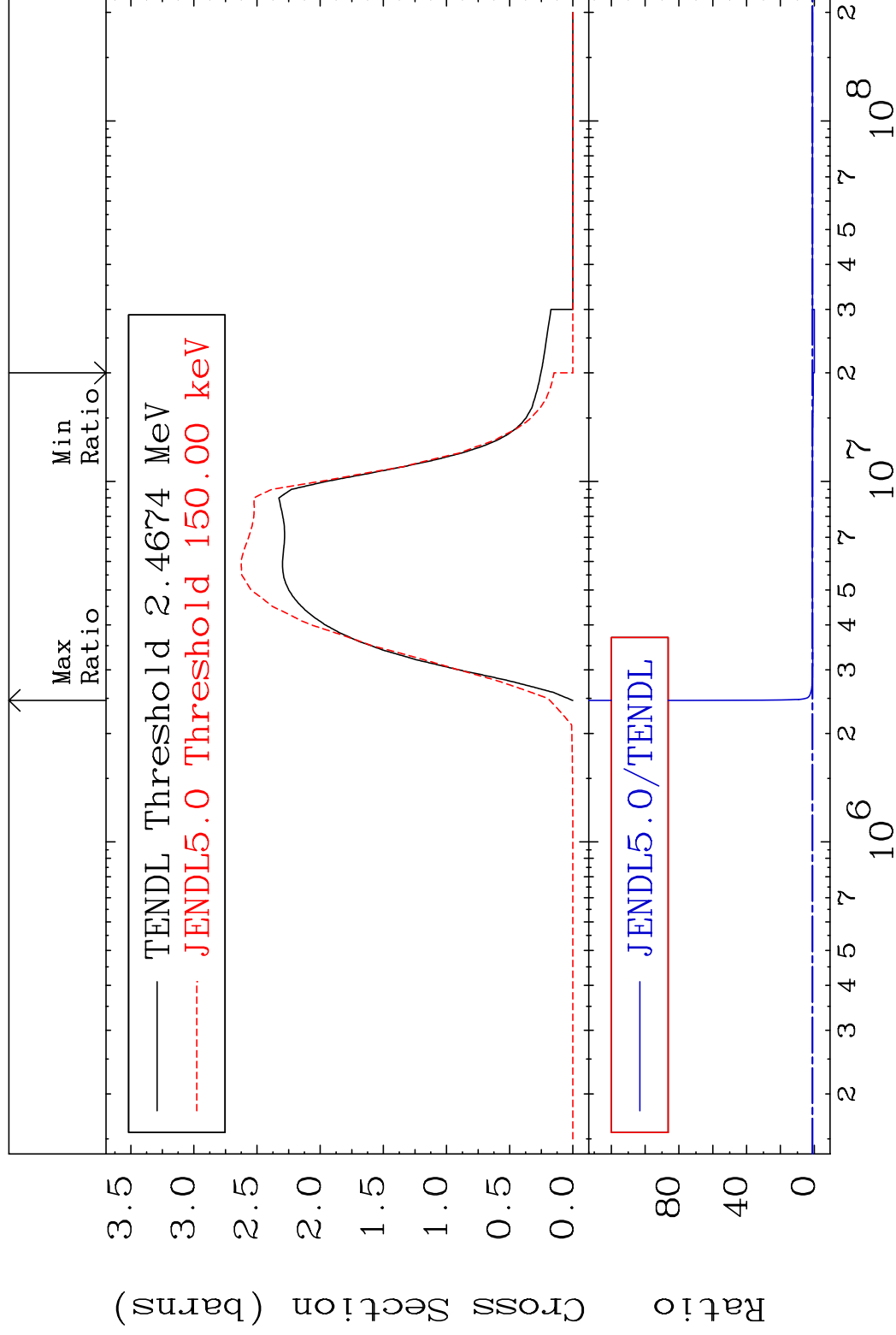


MAT 8025

(n, n') Continuum

80-Hg-196

Cross Section -100.0 To 7596. %



35

Incident Energy (eV)

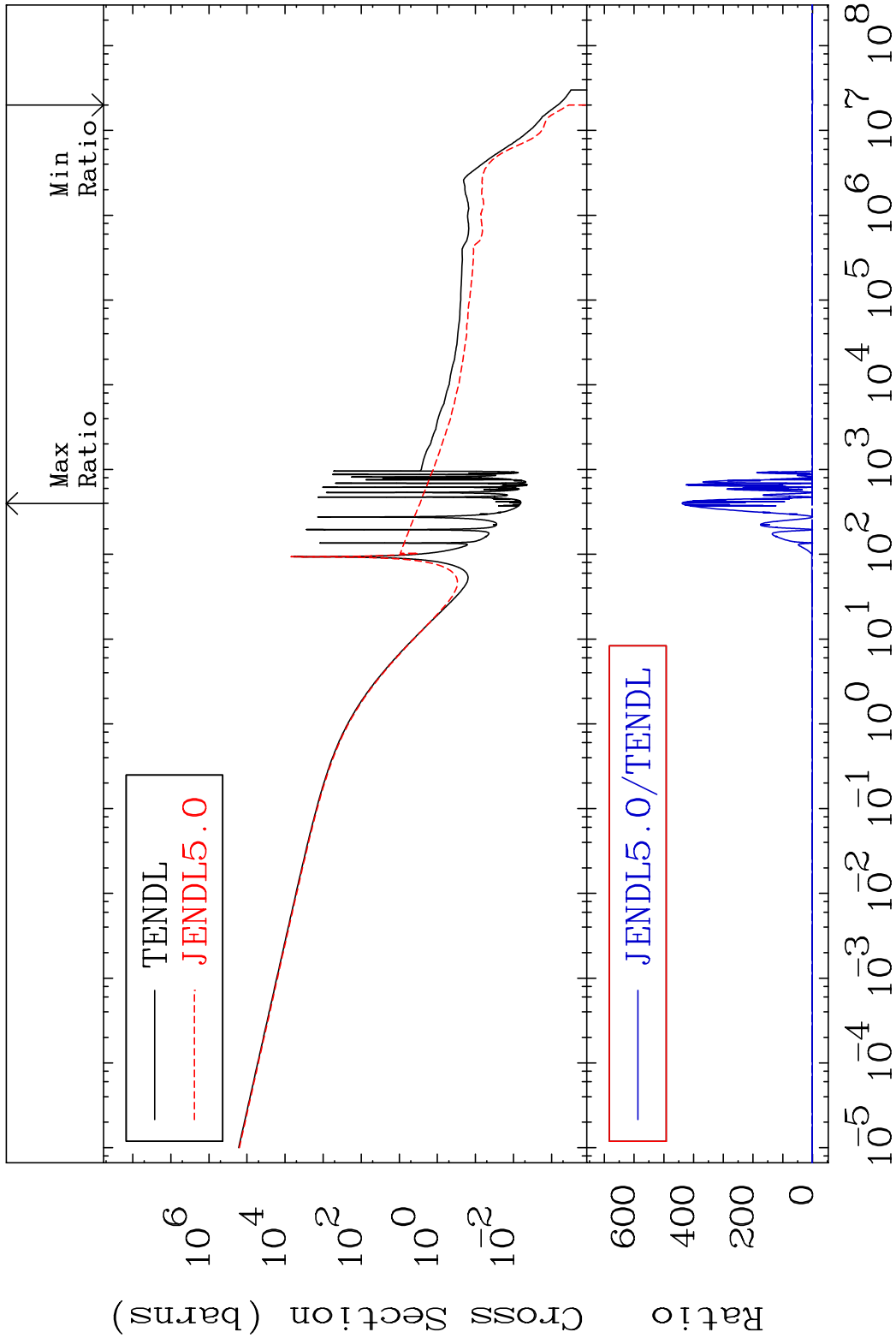
80-Hg-196

MAT 8025

(n, γ)

80-Hg-196

Cross Section -100.0 To 9999. %



36

Incident Energy (eV)

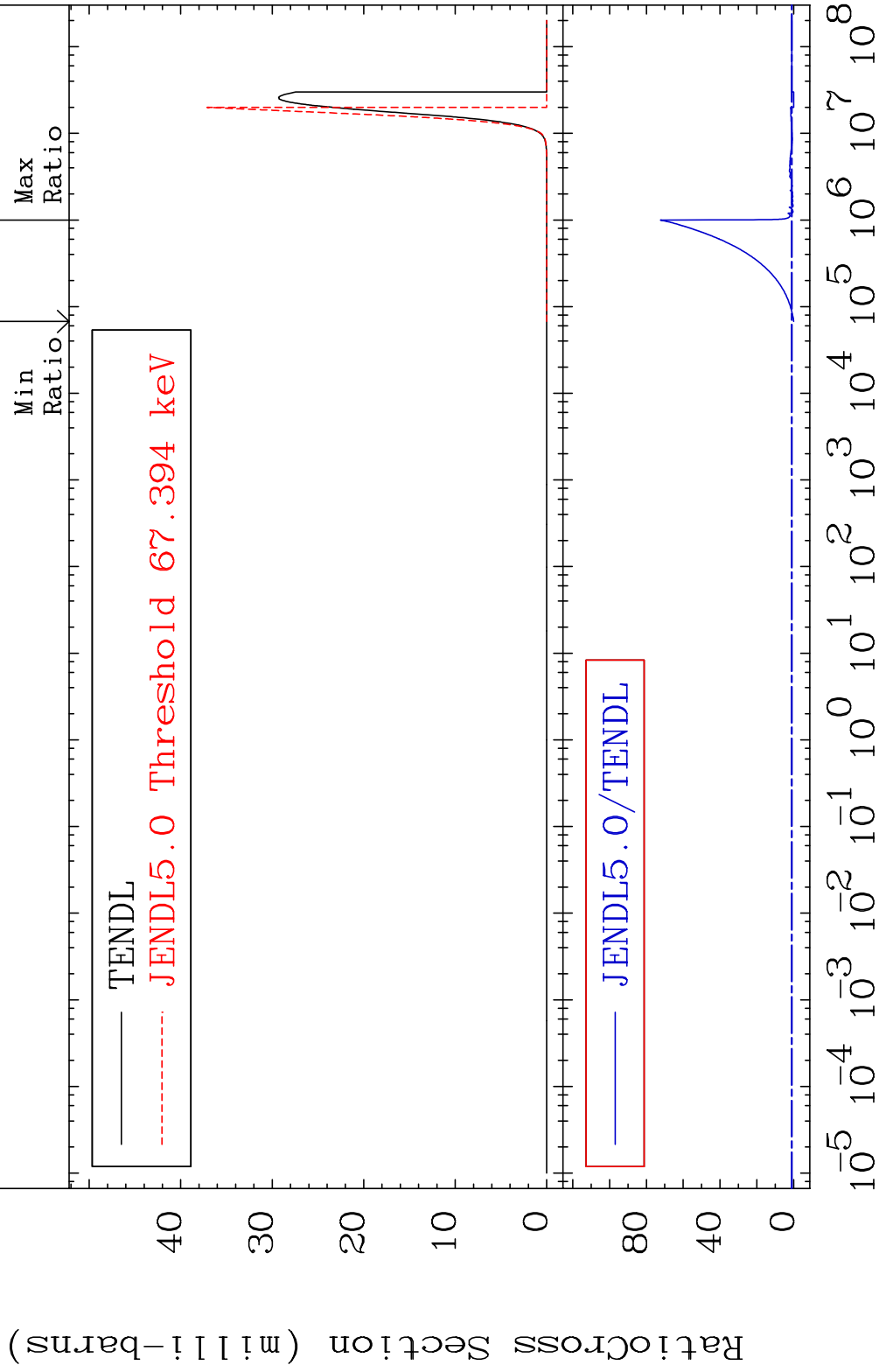
80-Hg-196

MAT 8025

(n, p)

80-Hg-196

Cross Section -100.0 To 7135. %

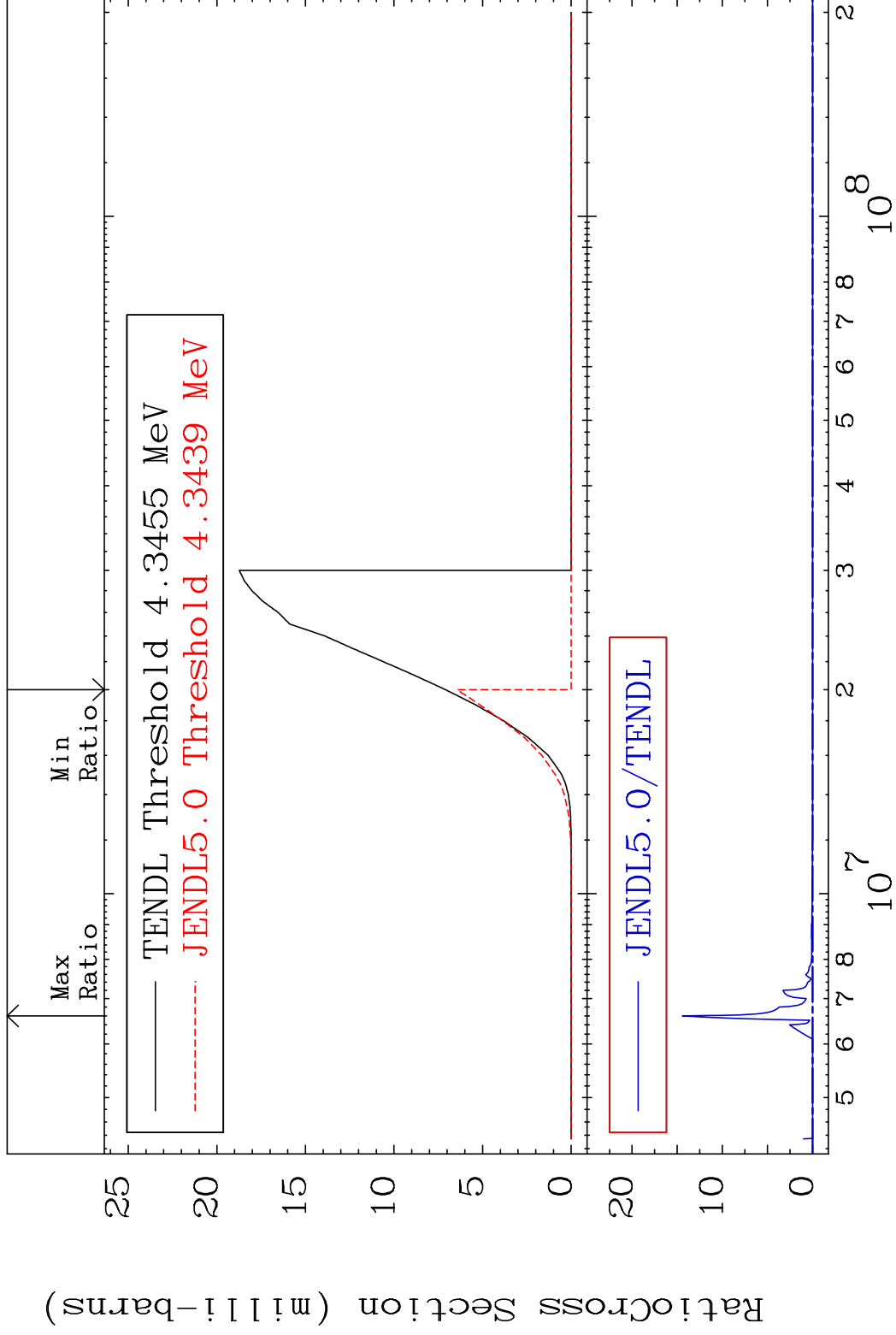


MAT 8025

(n, d)

80-Hg-196

Cross Section -100.0 To 9999. %

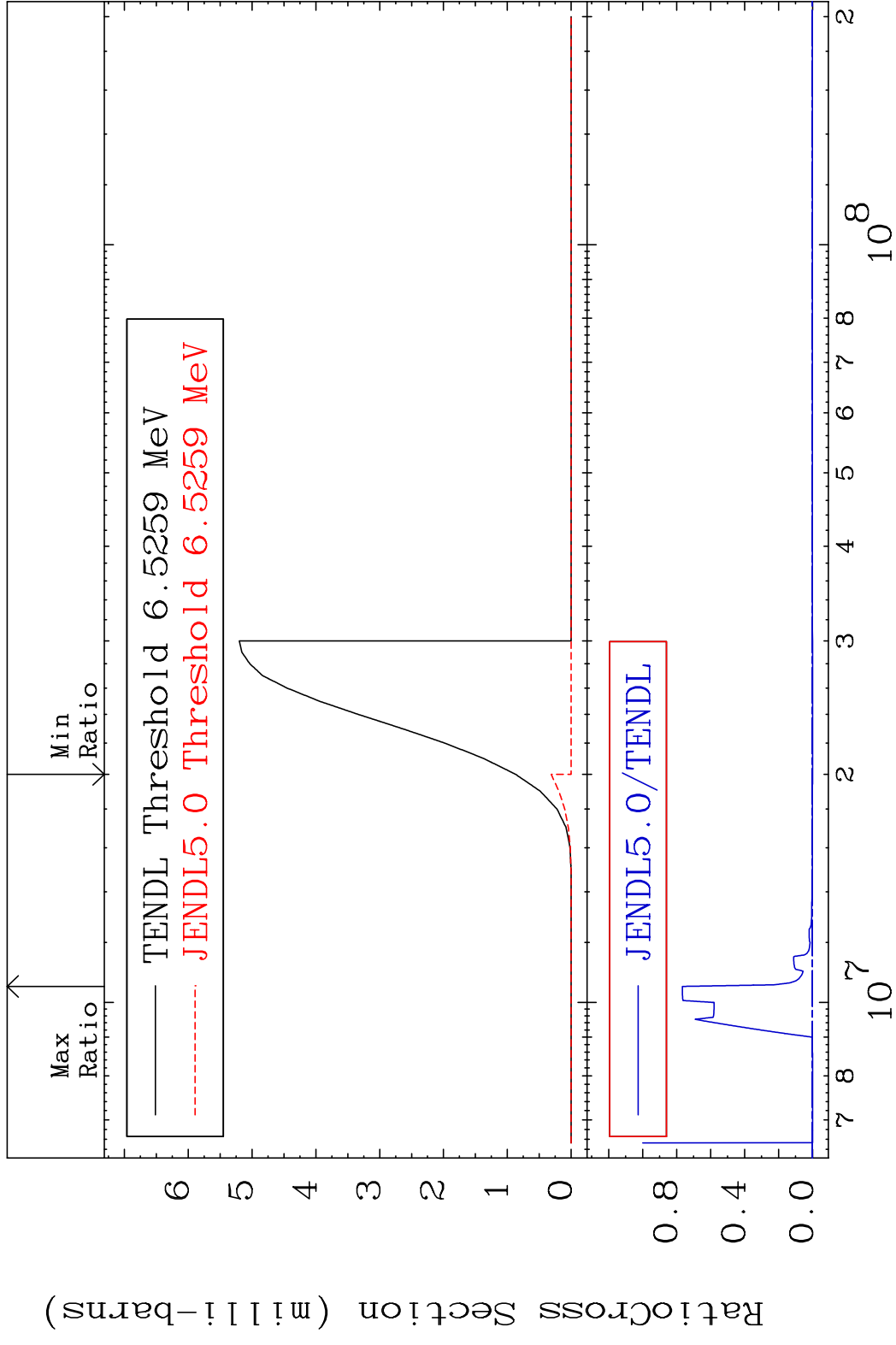


38

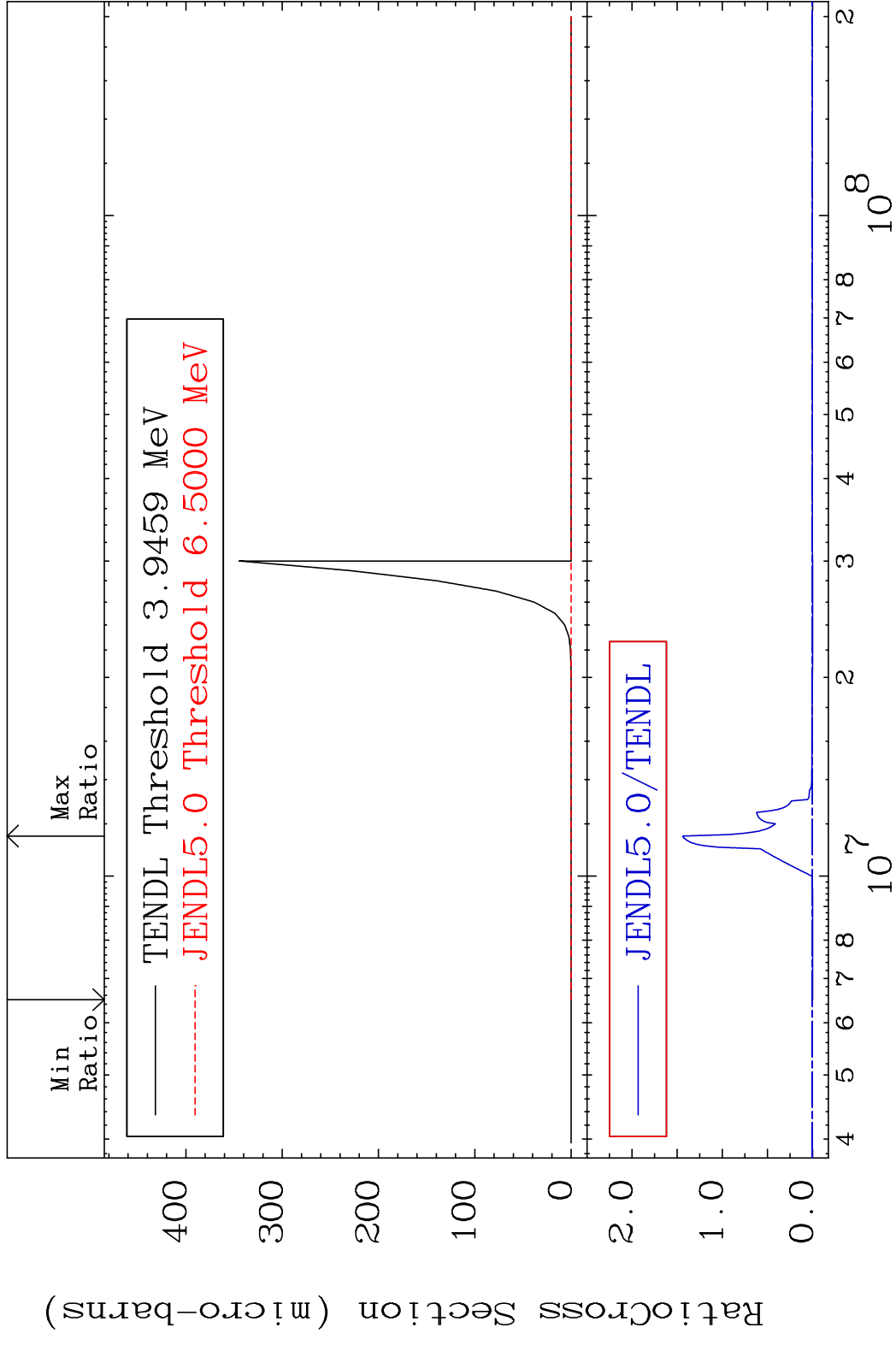
Incident Energy (eV)

80-Hg-196

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



MAT 8025 (n, He-3) 80-Hg-196
 Cross Section -100.0 To 9999. %

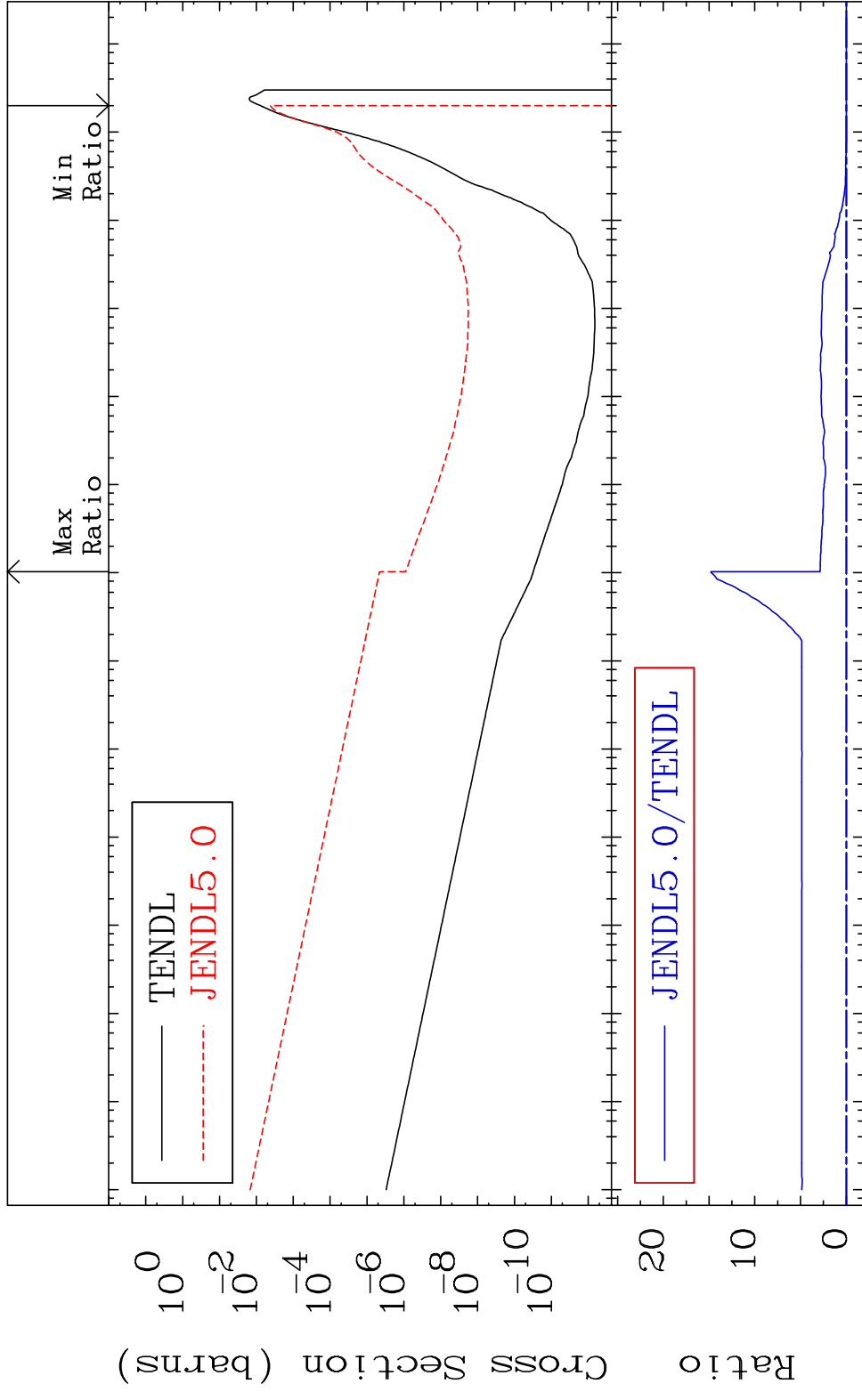


MAT 8025

80-Hg-196

(n, α)

Cross Section -100.0 To 9999. %

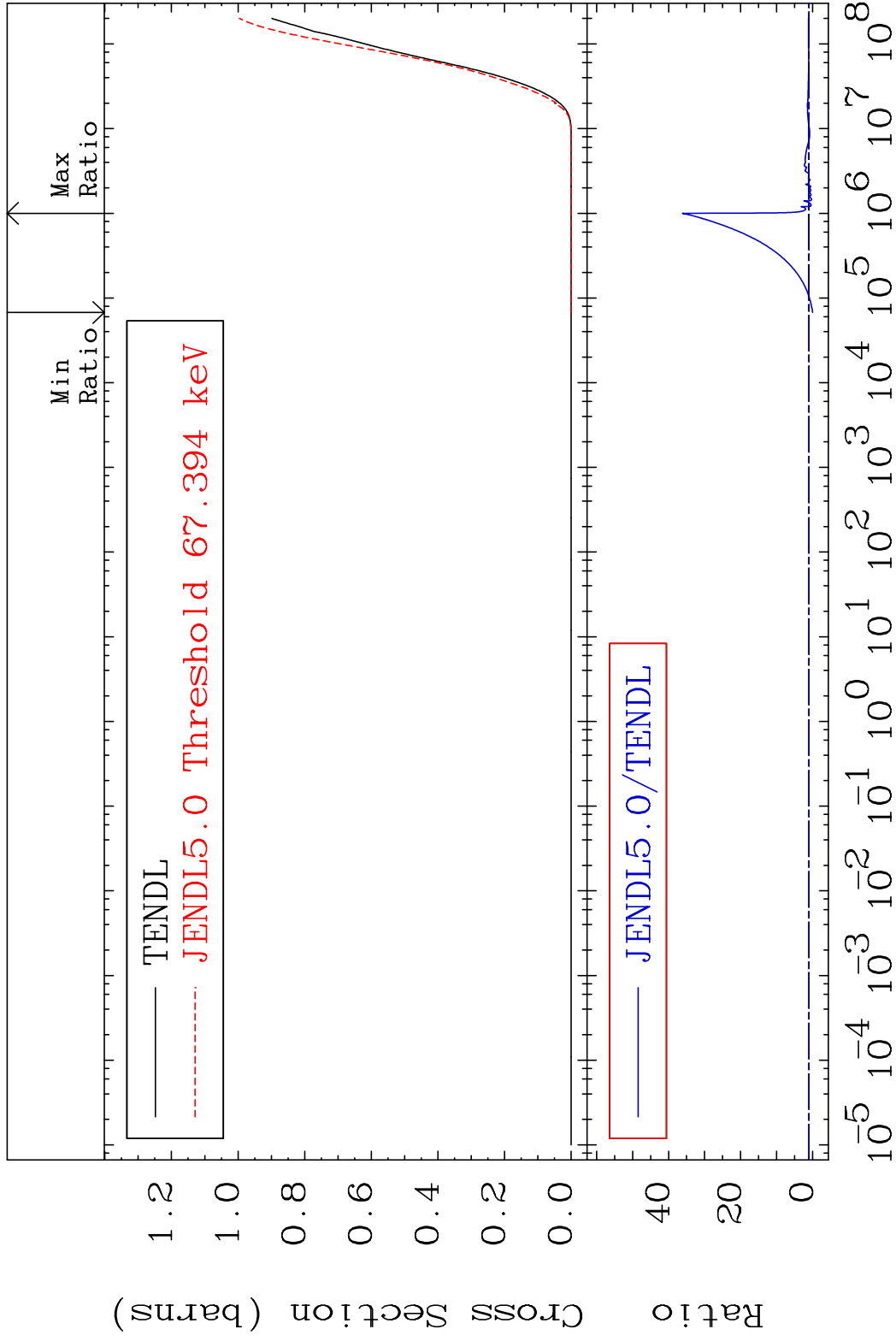


MAT 8025

Hydrogen Production

80-Hg-196

Cross Section -100.0 To 3518. %

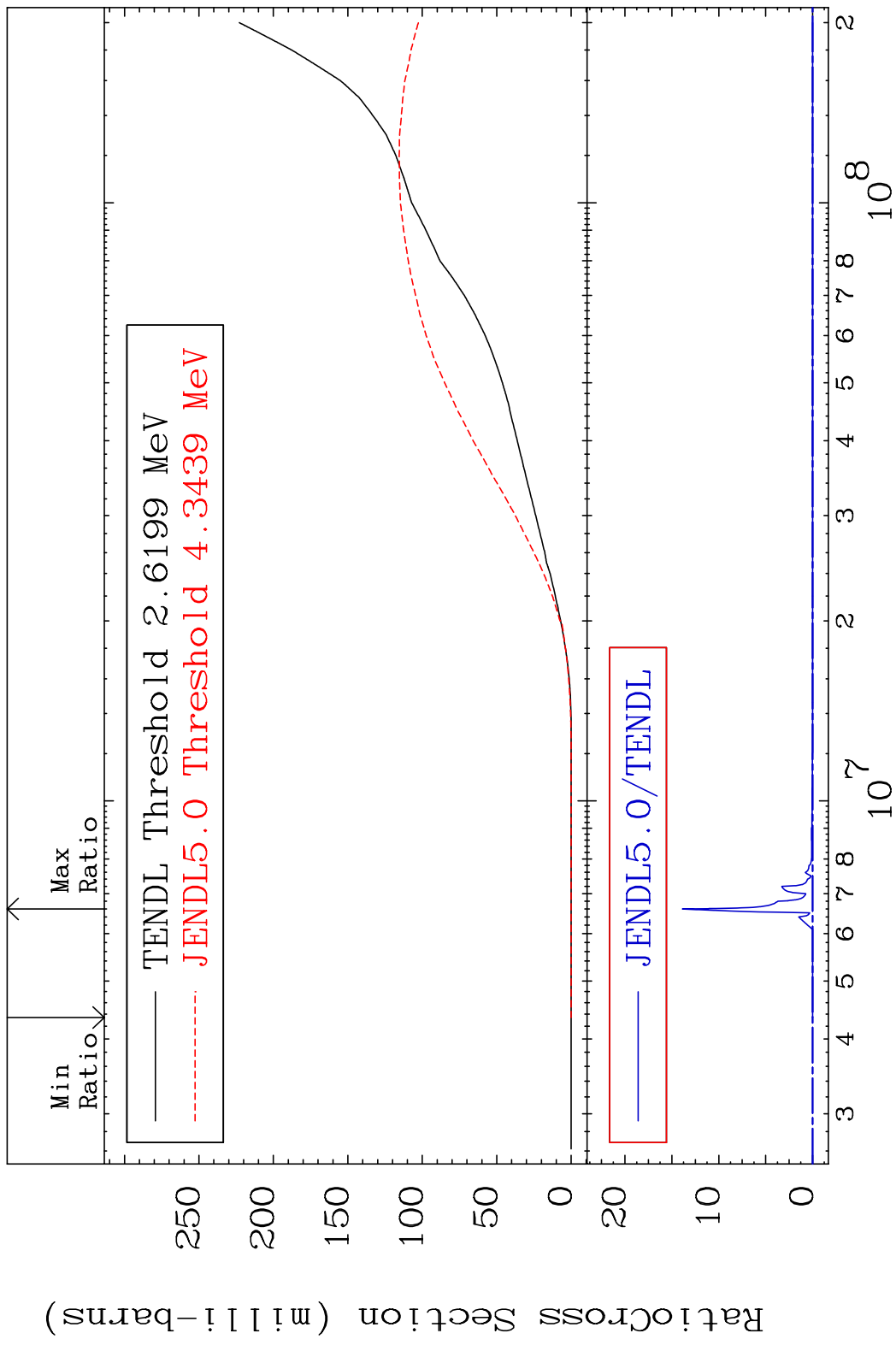


42

Incident Energy (eV)

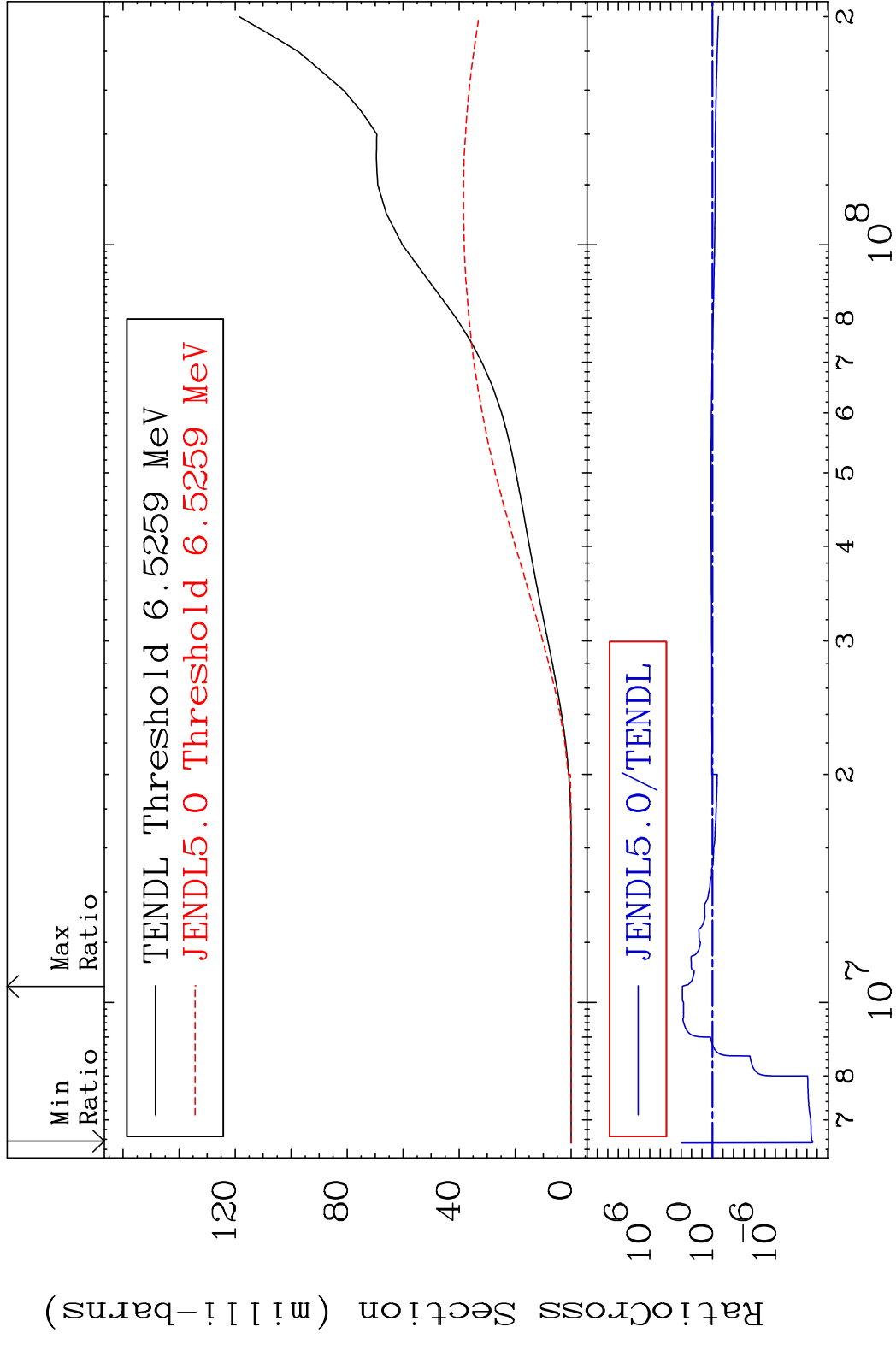
80-Hg-196

MAT 8025 Deuterium Production 80-Hg-196
 Cross Section -100.0 To 9999. %



43 80-Hg-196

MAT 8025 Tritium Production 80-Hg-196
 Cross Section -100.0 To 9999. %



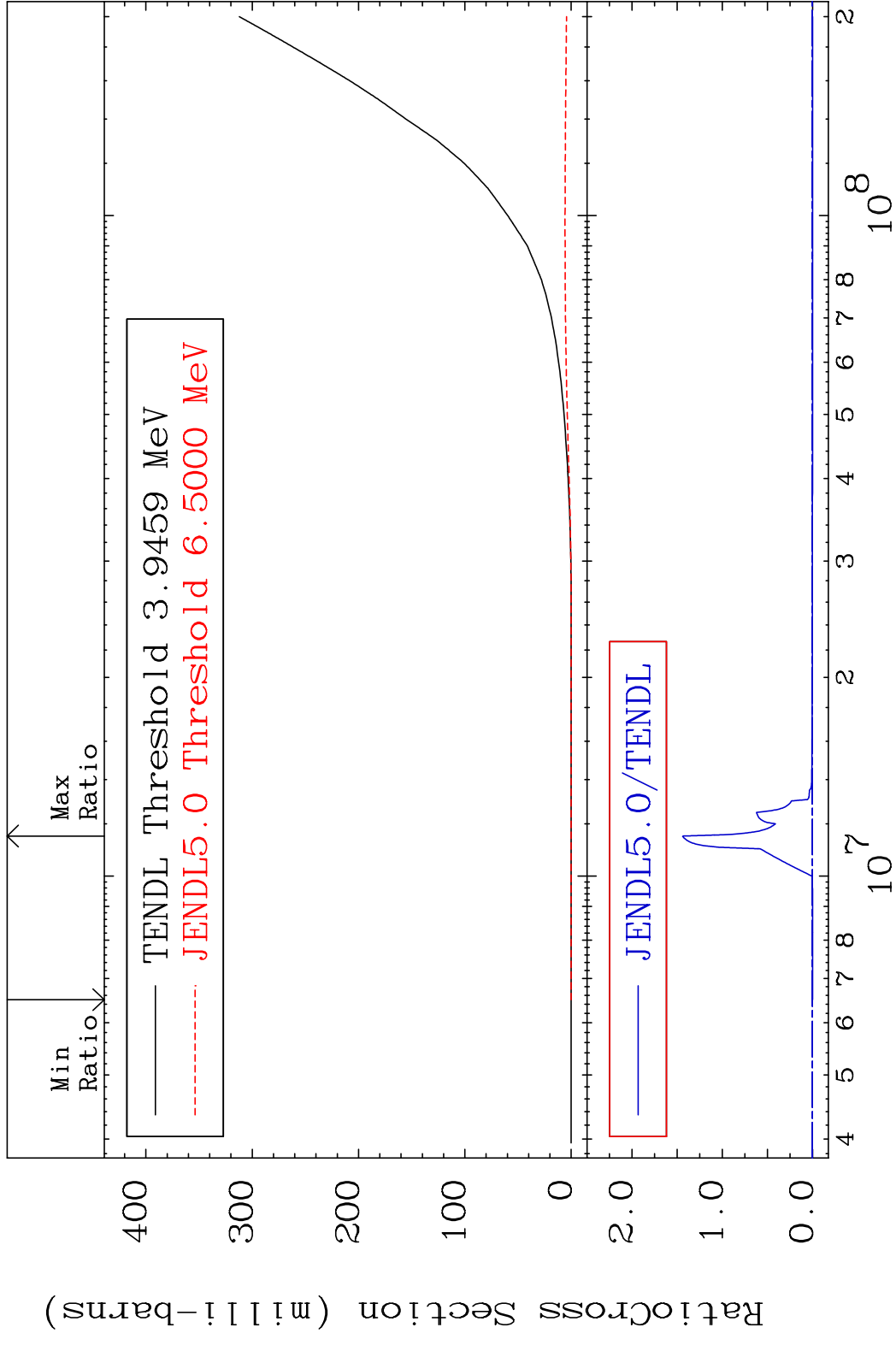
44 Incident Energy (eV) 80-Hg-196

MAT 8025

He-3 Production

80-Hg-196

Cross Section -100.0 To 9999. %



45

Incident Energy (eV)

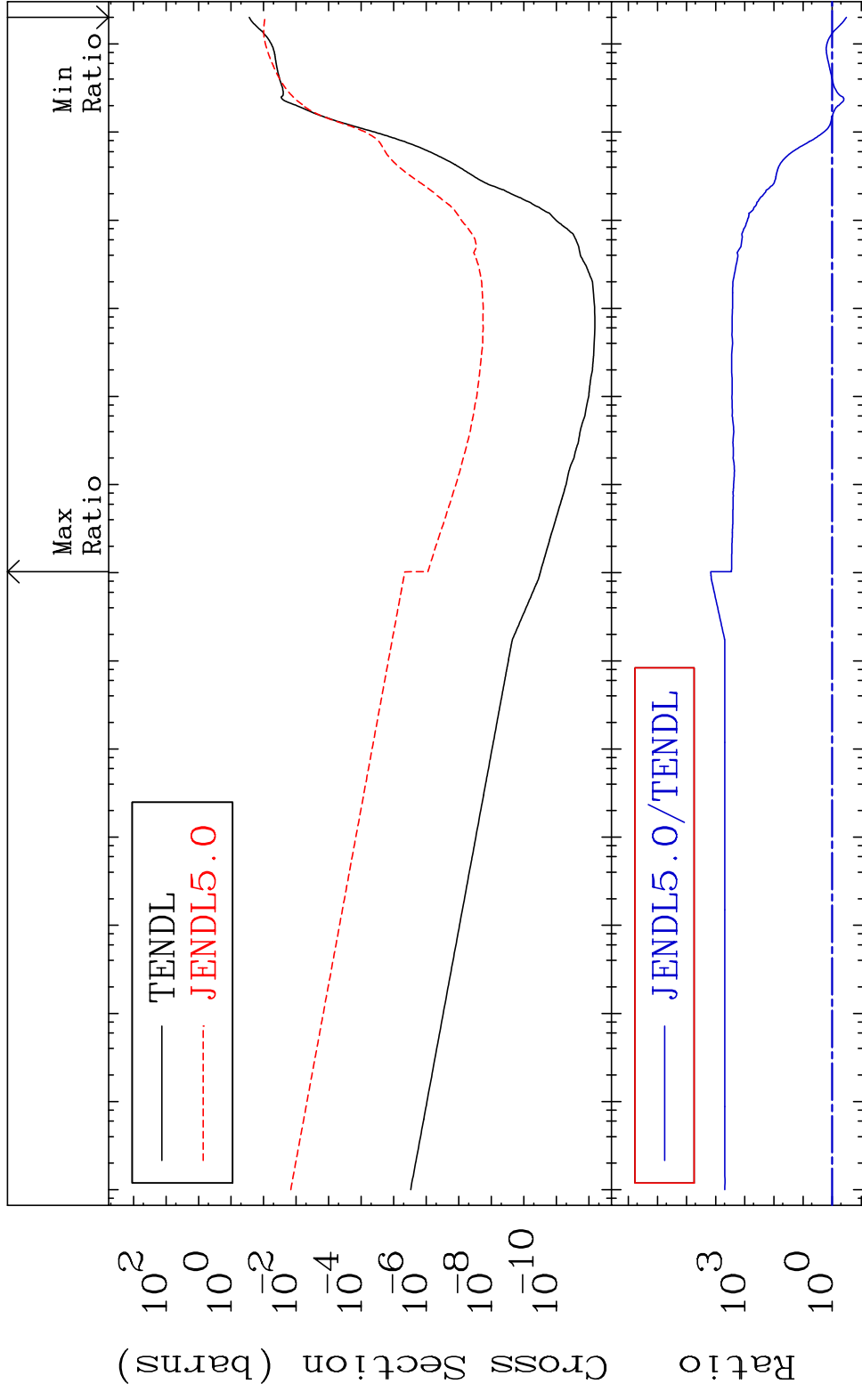
80-Hg-196

MAT 8025

He-4 Production

80-Hg-196

Cross Section -67.37 To 9999. %

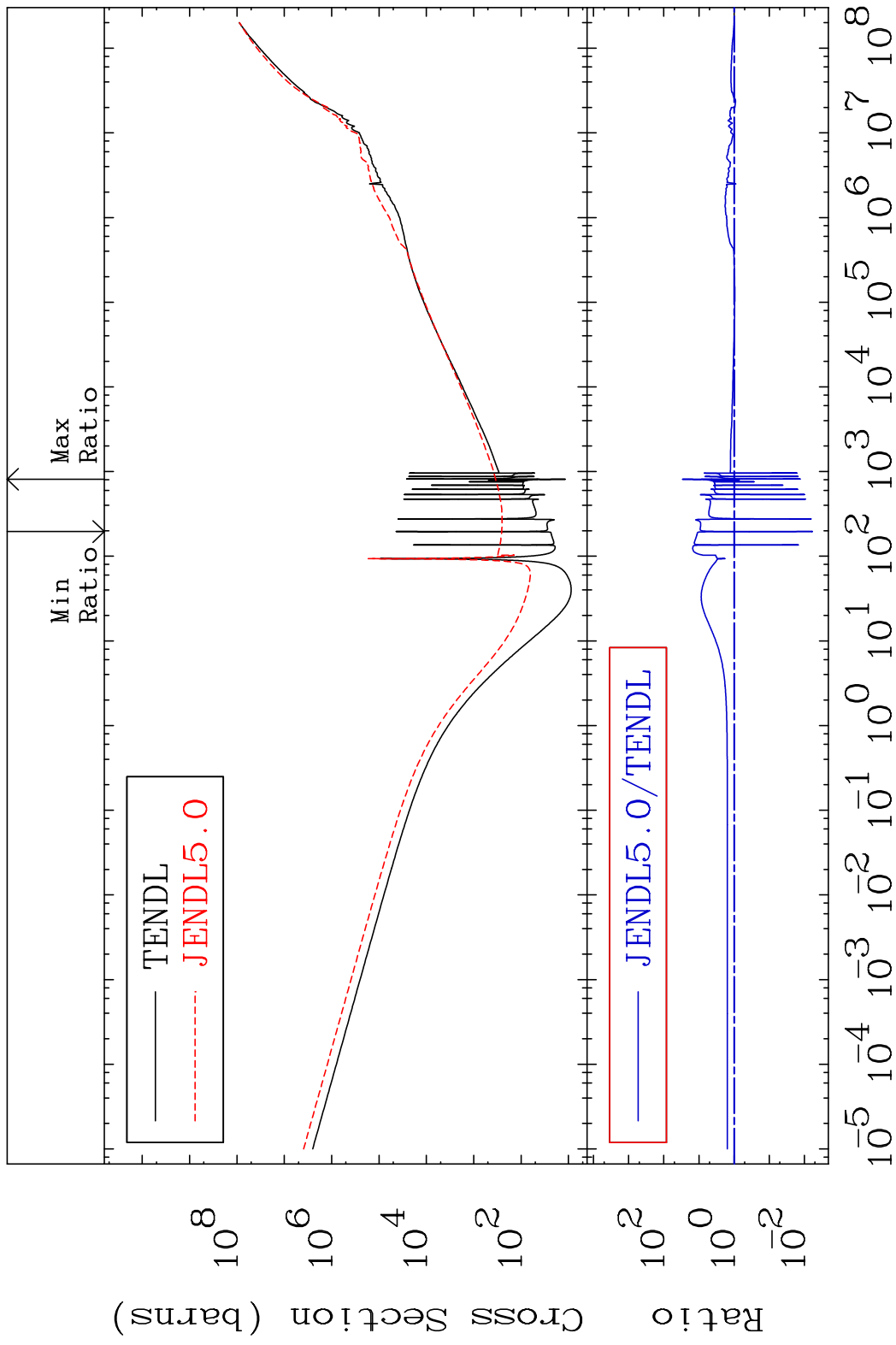


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Incident Energy (eV)

80-Hg-196

MAT 8025 Kerma total (eV-barns) 80-Hg-196
 Cross Section -99.42 To 2863. %

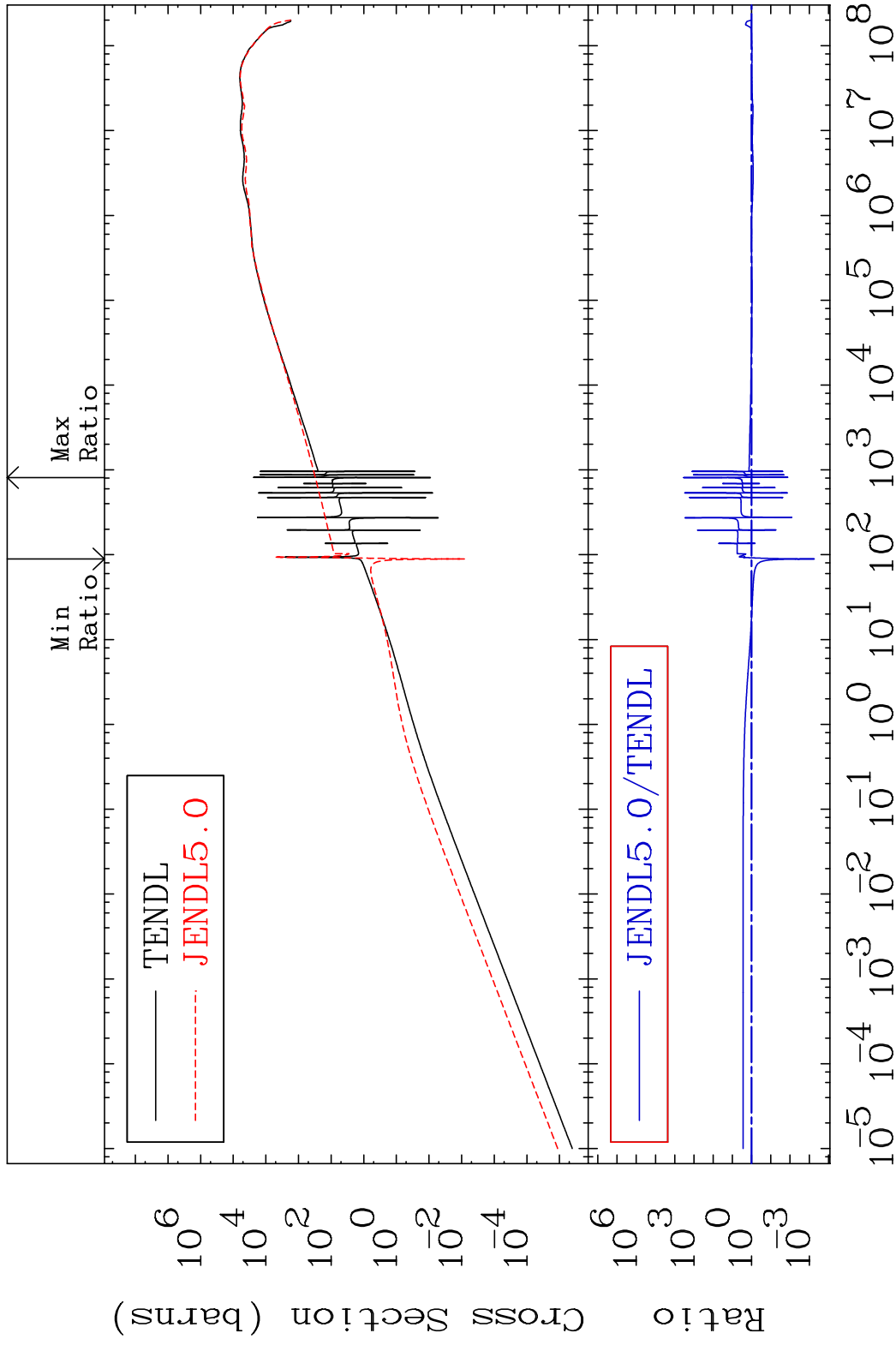


MAT 8025

Kerma elastic

80-Hg-196

Cross Section -99.94 To 9999. %

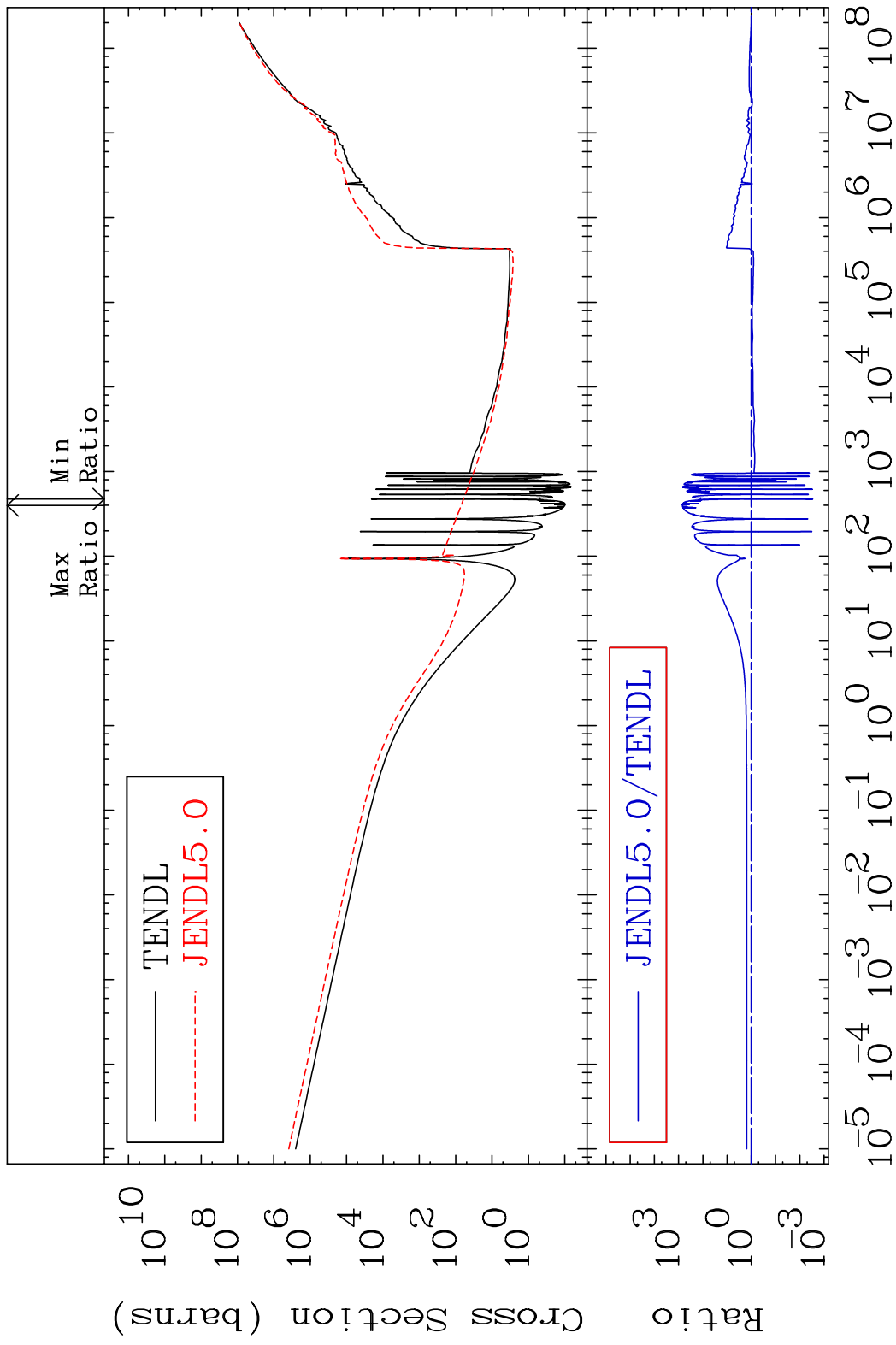


48

Incident Energy (eV)

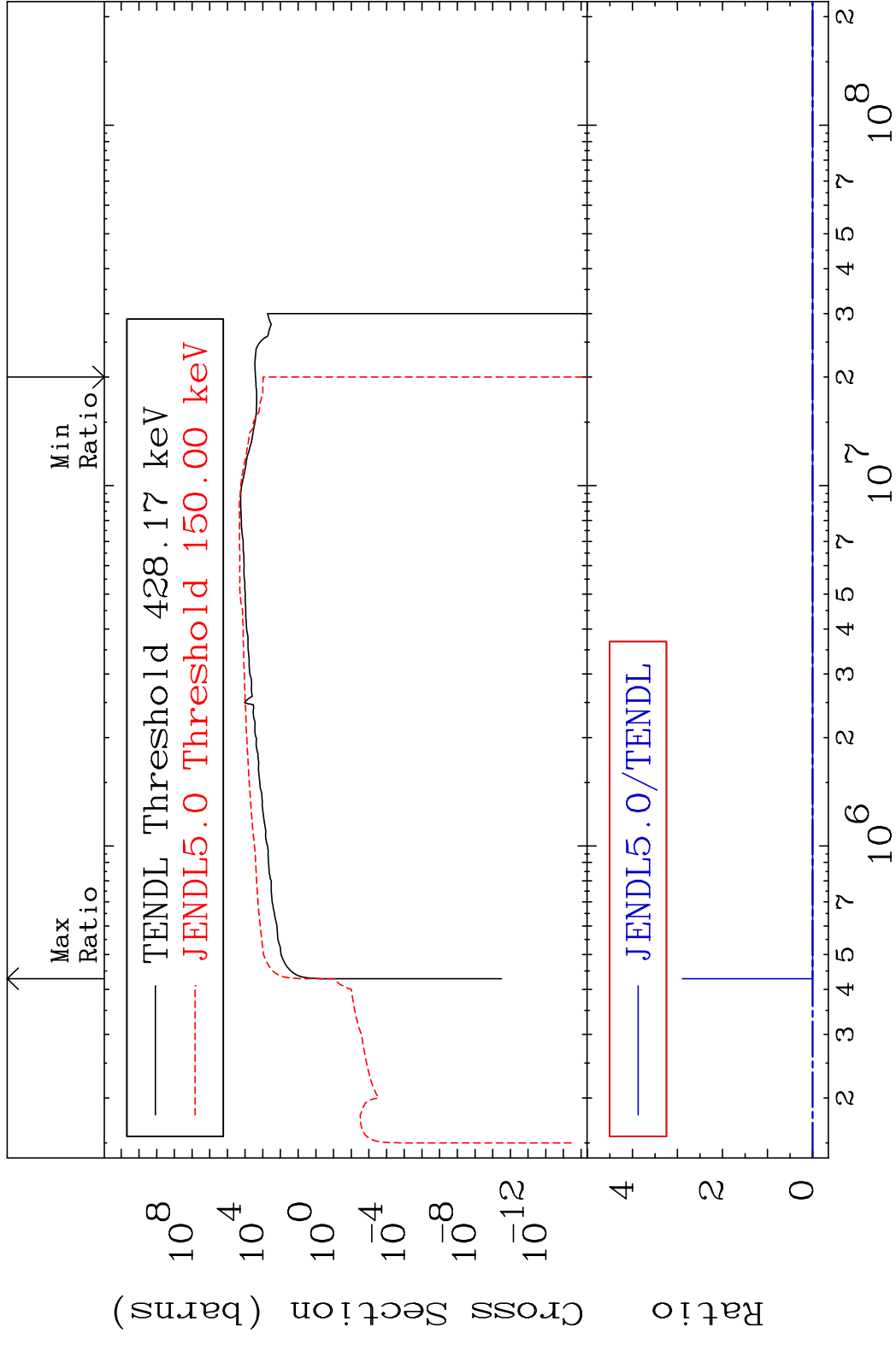
80-Hg-196

MAT 8025 Kerma non-elastic (all but mt2) 80-Hg-196
 Cross Section -99.70 To 9999. %

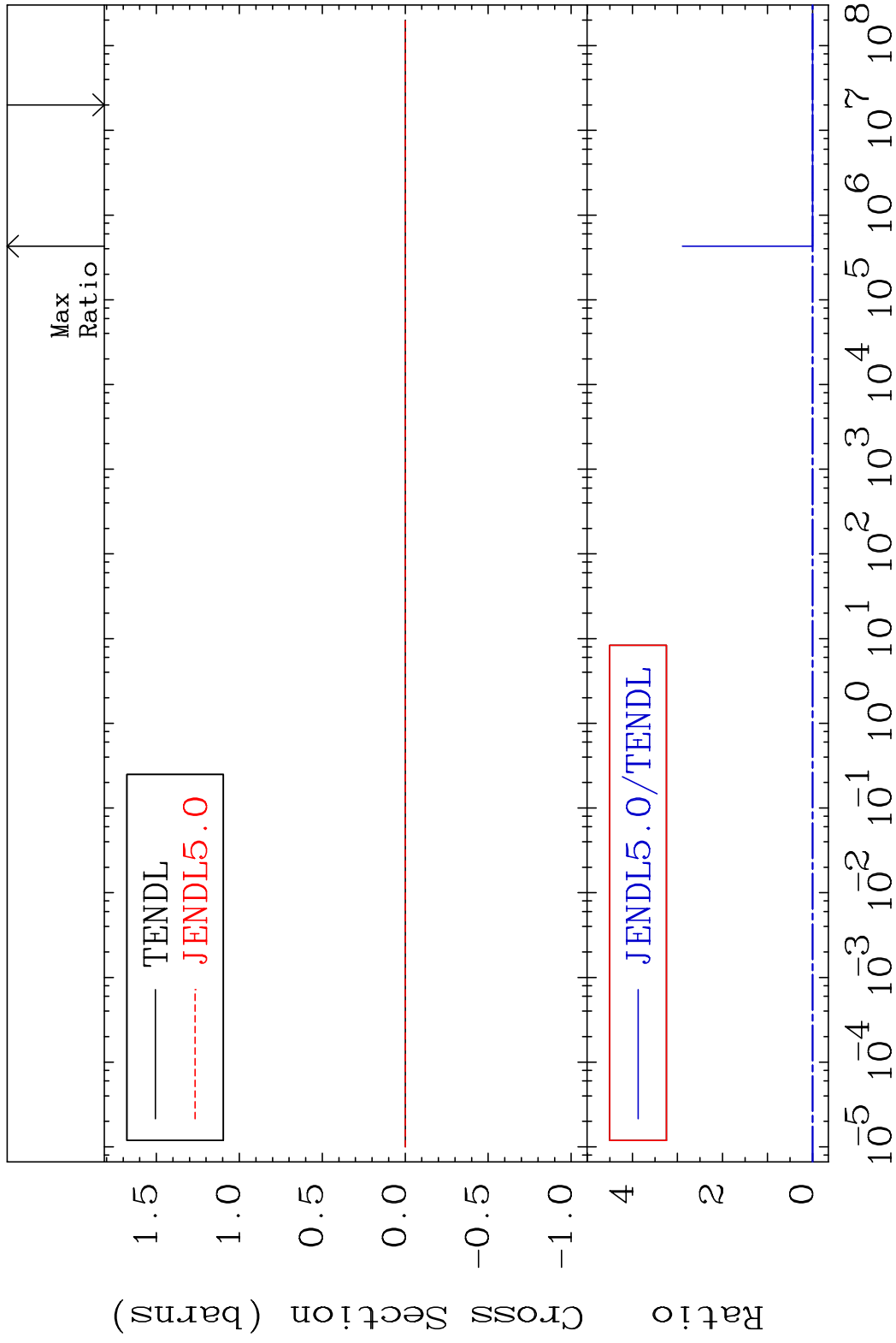


49 Incident Energy (eV) 80-Hg-196

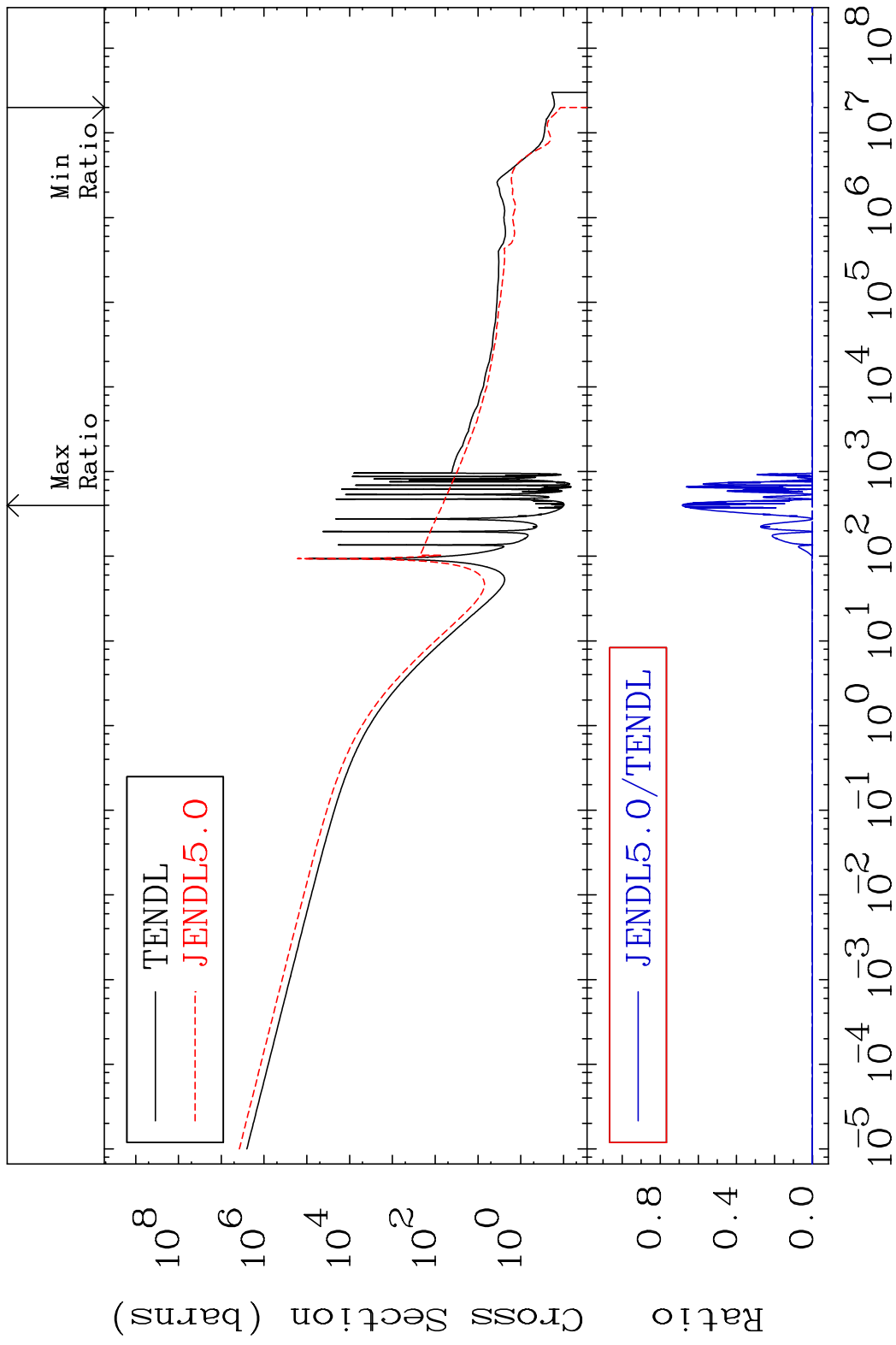
MAT 8025 Kerma inelastic (mt51-91) 80-Hg-196
 Cross Section -100.0 To 9999. %



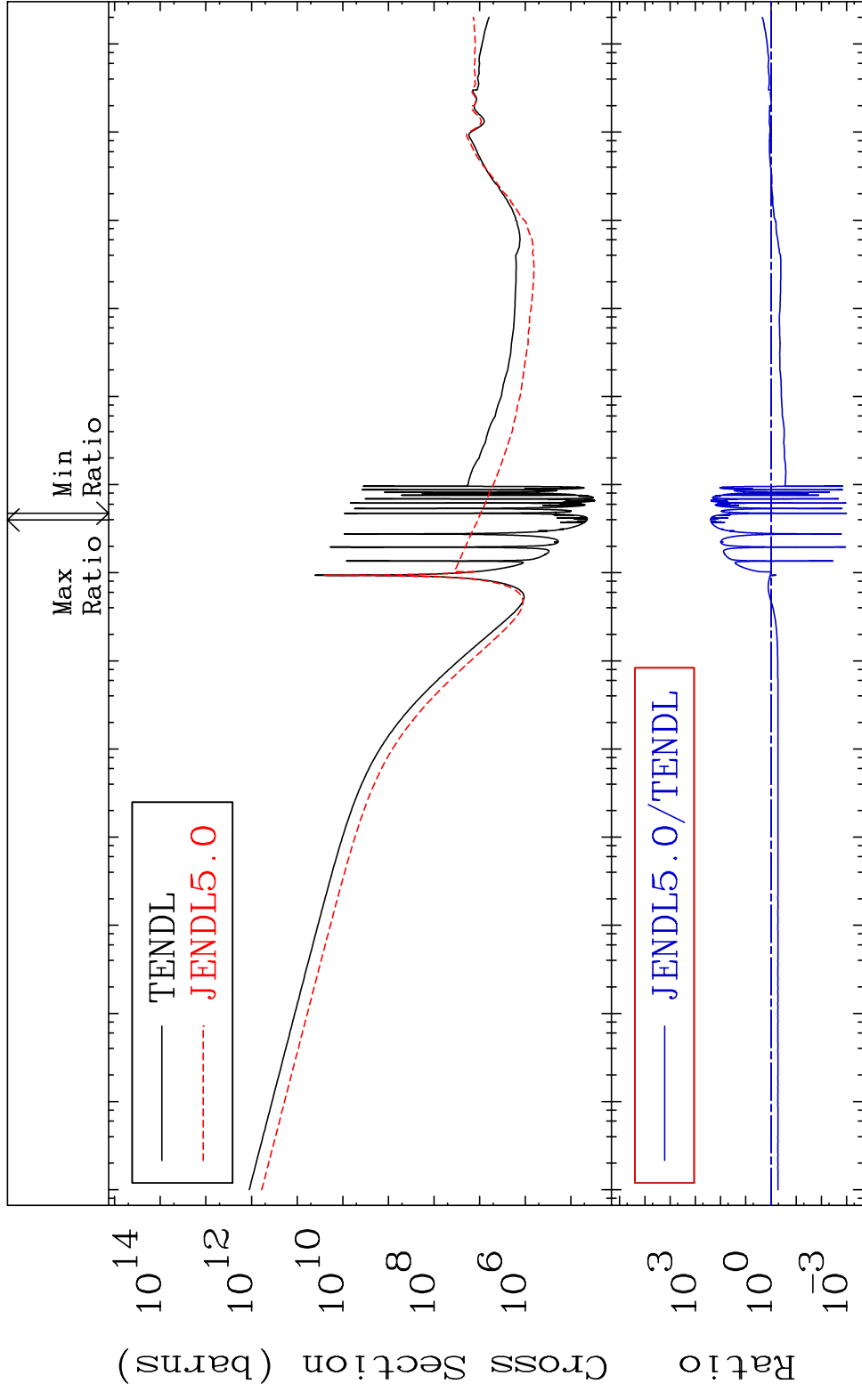
MAT 8025 Kerma fission (mt18 or mt19-20-21-38)80-Hg-196
 Cross Section -100.0 To 9999. %



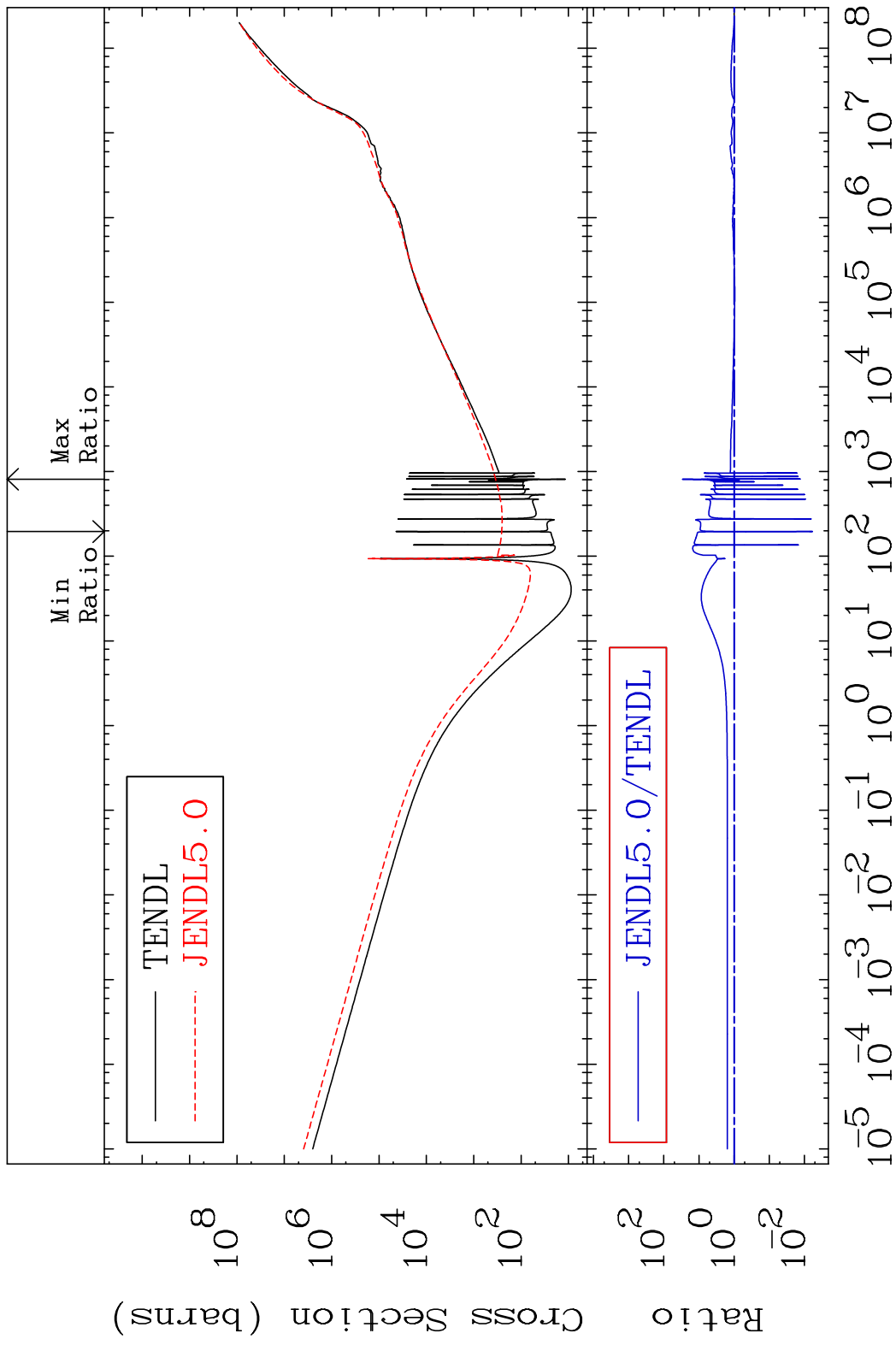
MAT 8025 Kerma capture (mt102) 80-Hg-196
 Cross Section -100.0 To 9999. %



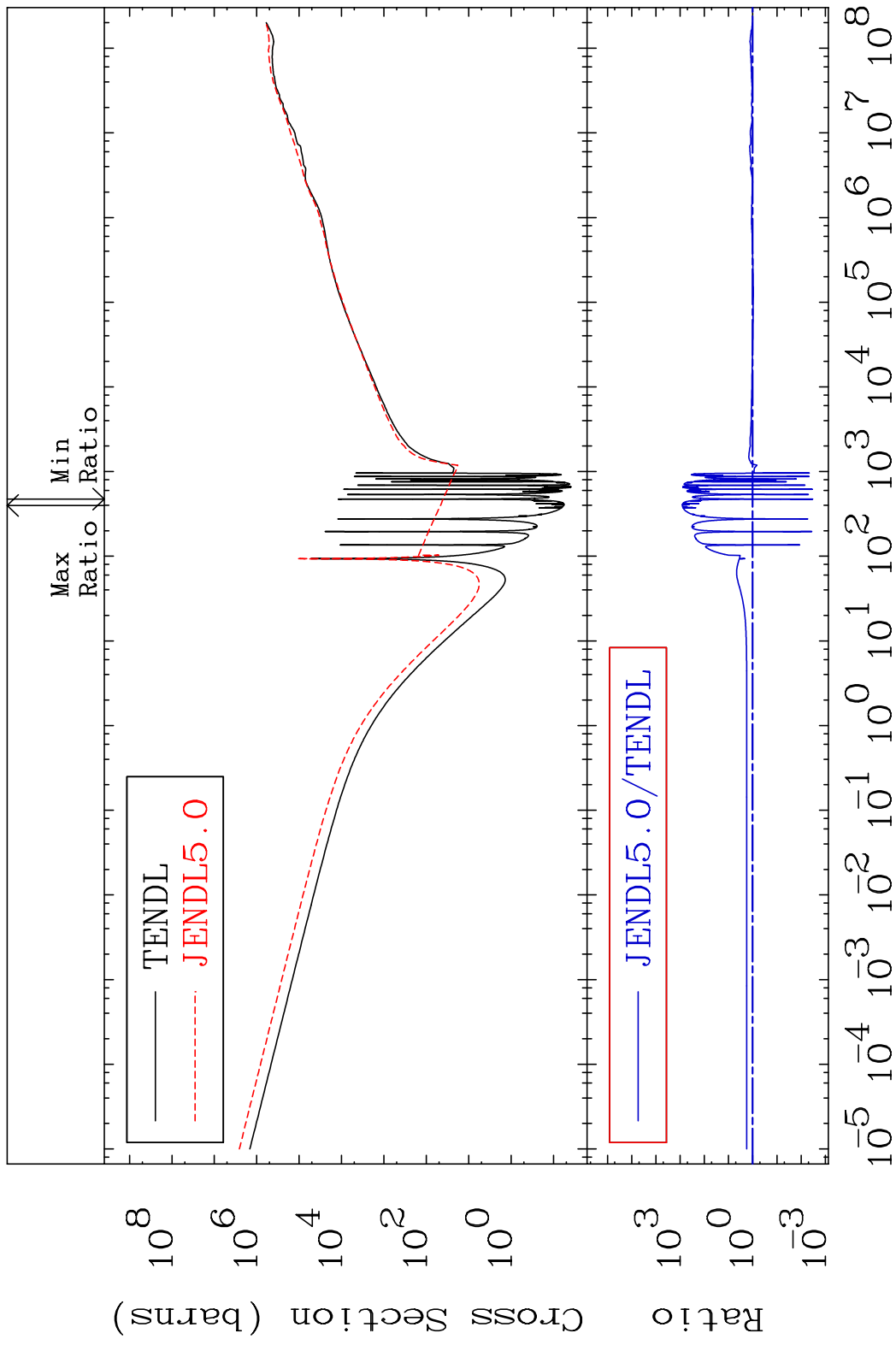
MAT 8025 Total photon (eV-barns) 80-Hg-196
 Cross Section -99.90 To 9999. %



MAT 8025 Total kinematic kerma (high limit) 80-Hg-196
 Cross Section -99.42 To 2863. %



MAT 8025 Dpa total (eV-barns) 80-Hg-196
 Cross Section -99.66 To 9999. %



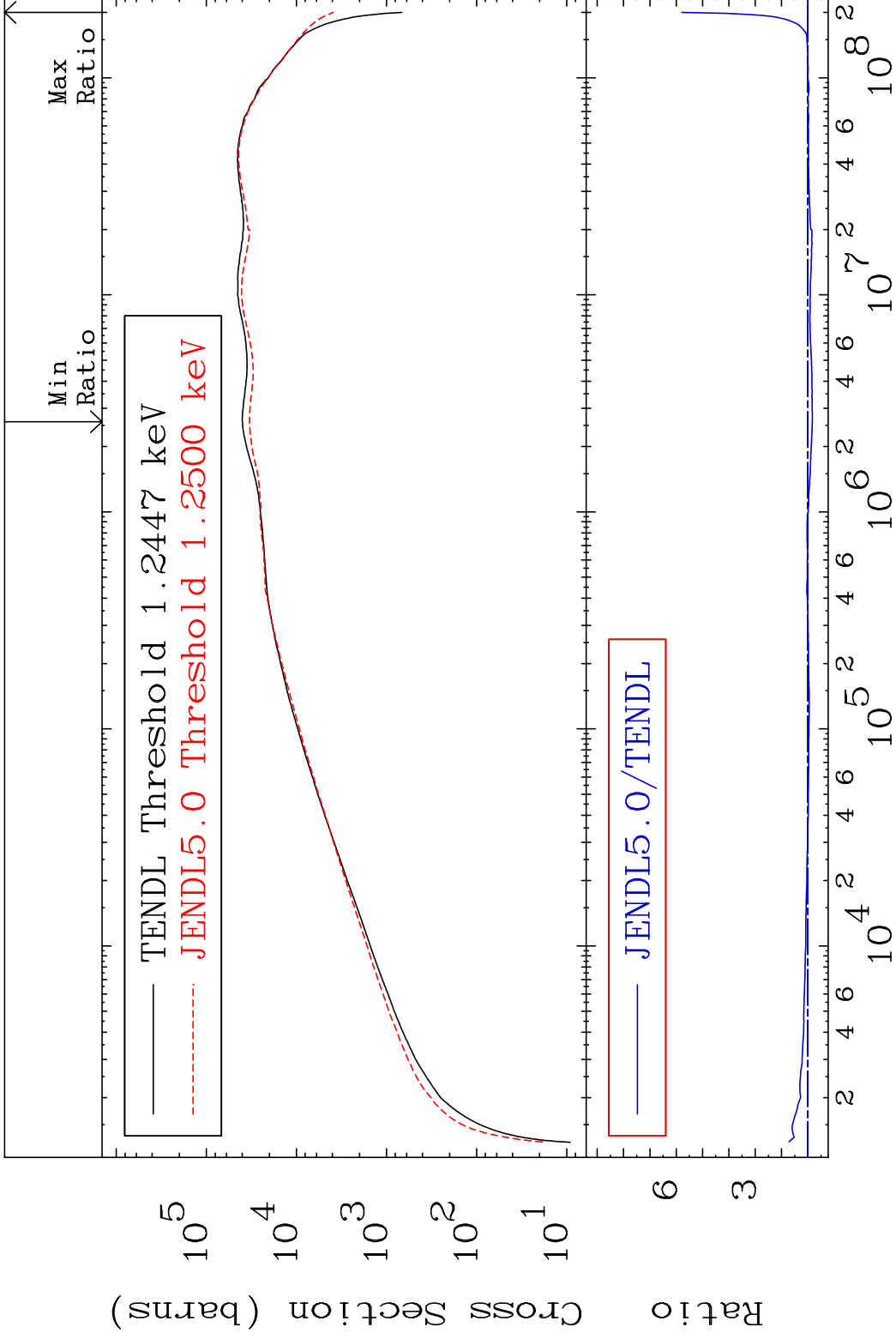
55 Incident Energy (eV) 80-Hg-196

MAT 8025

Dpa elastic (mt2)

80-Hg-196

Cross Section -16.96 To 479.0 %

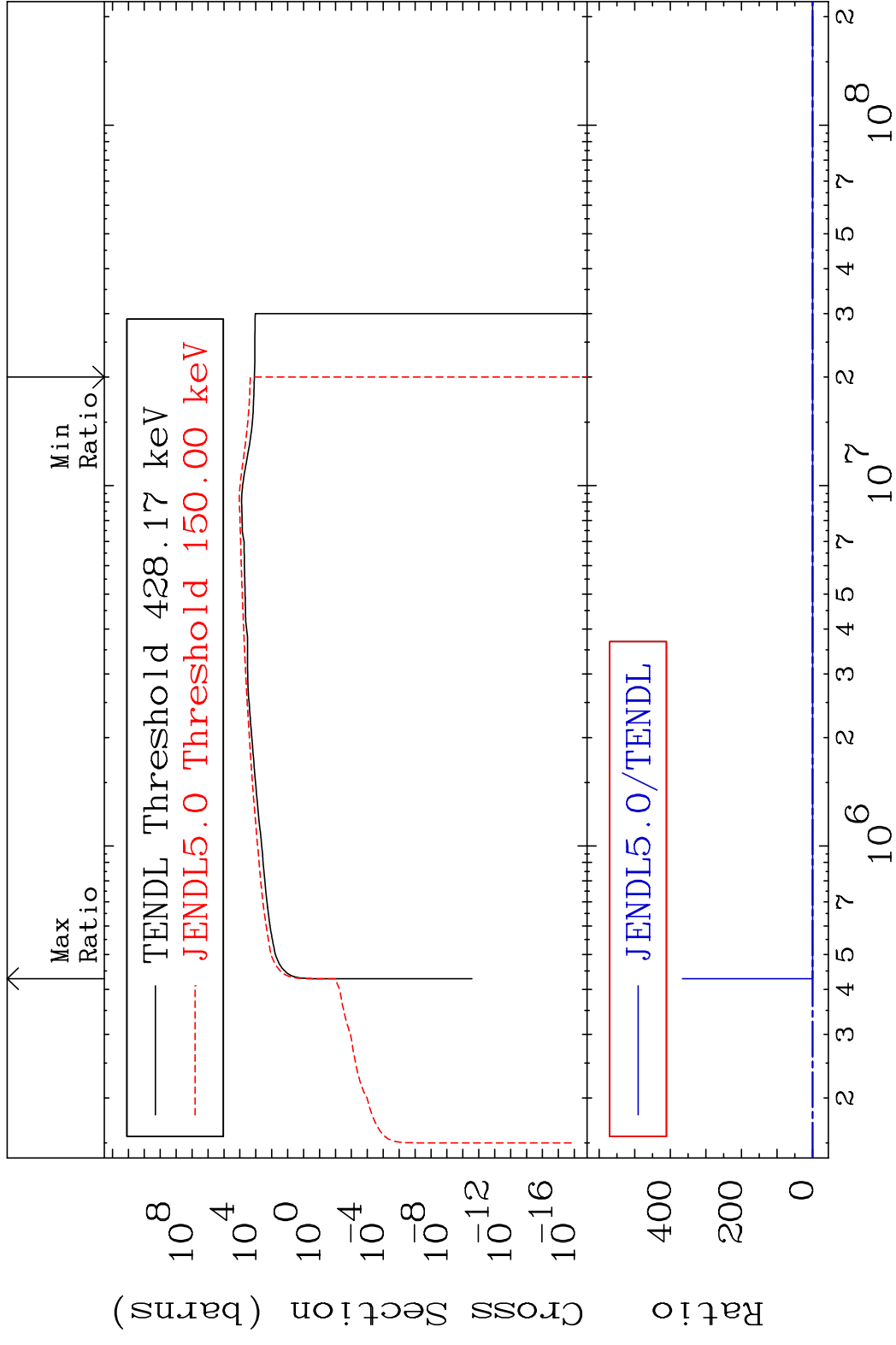


56

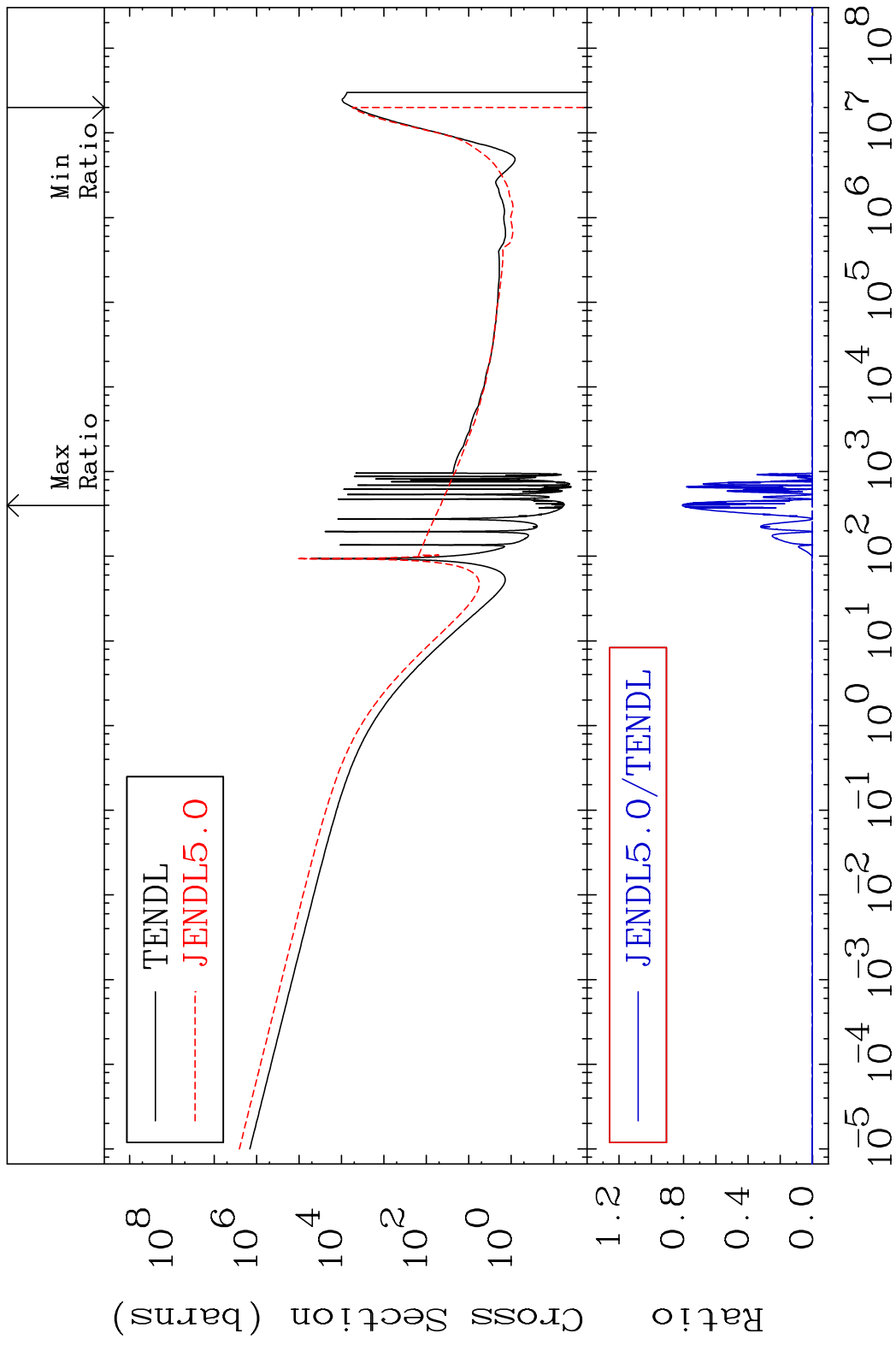
Incident Energy (eV)

80-Hg-196

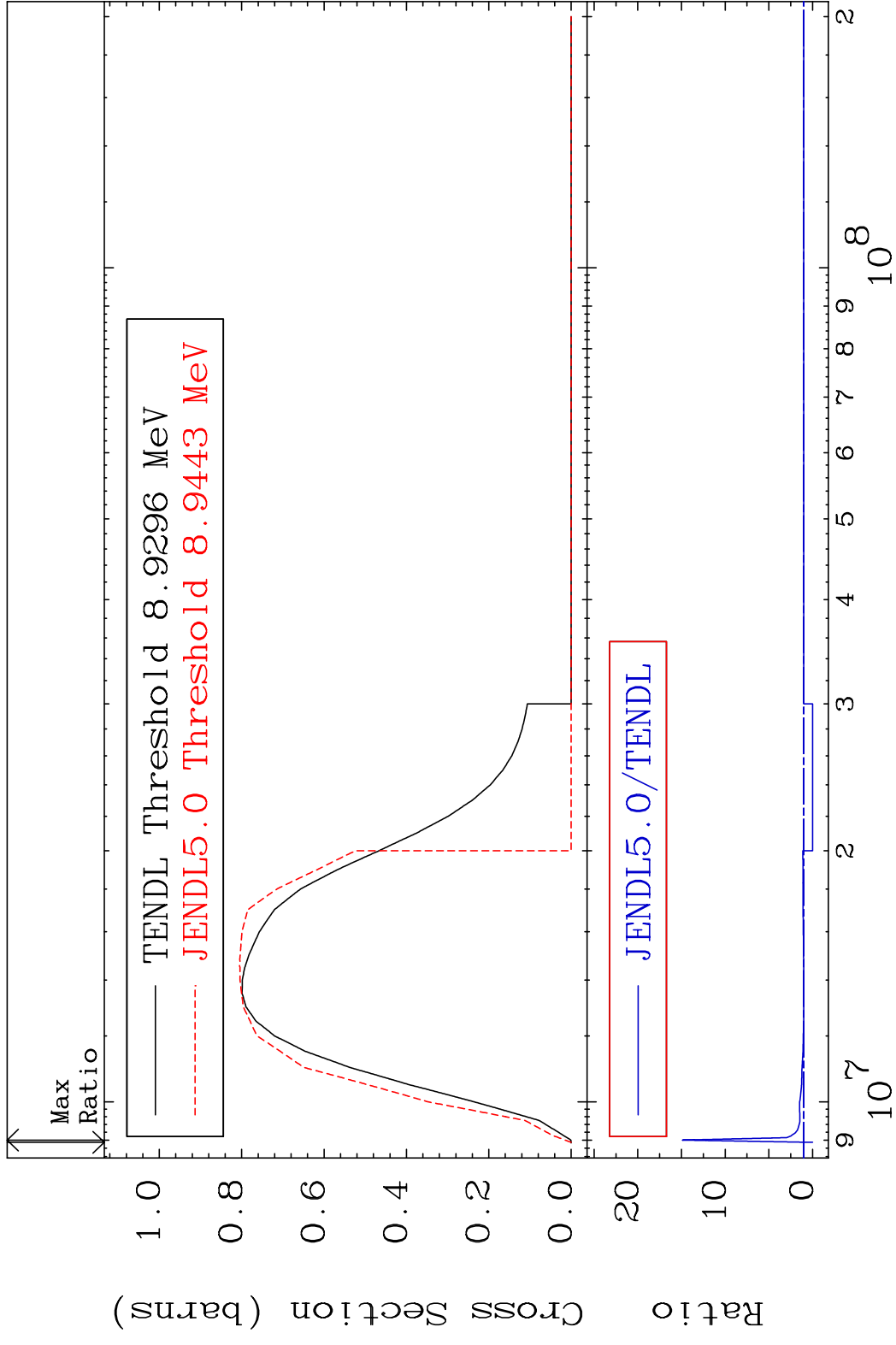
MAT 8025 Dpa inelastic (mt51-91) 80-Hg-196
 Cross Section -100.0 To 9999. %



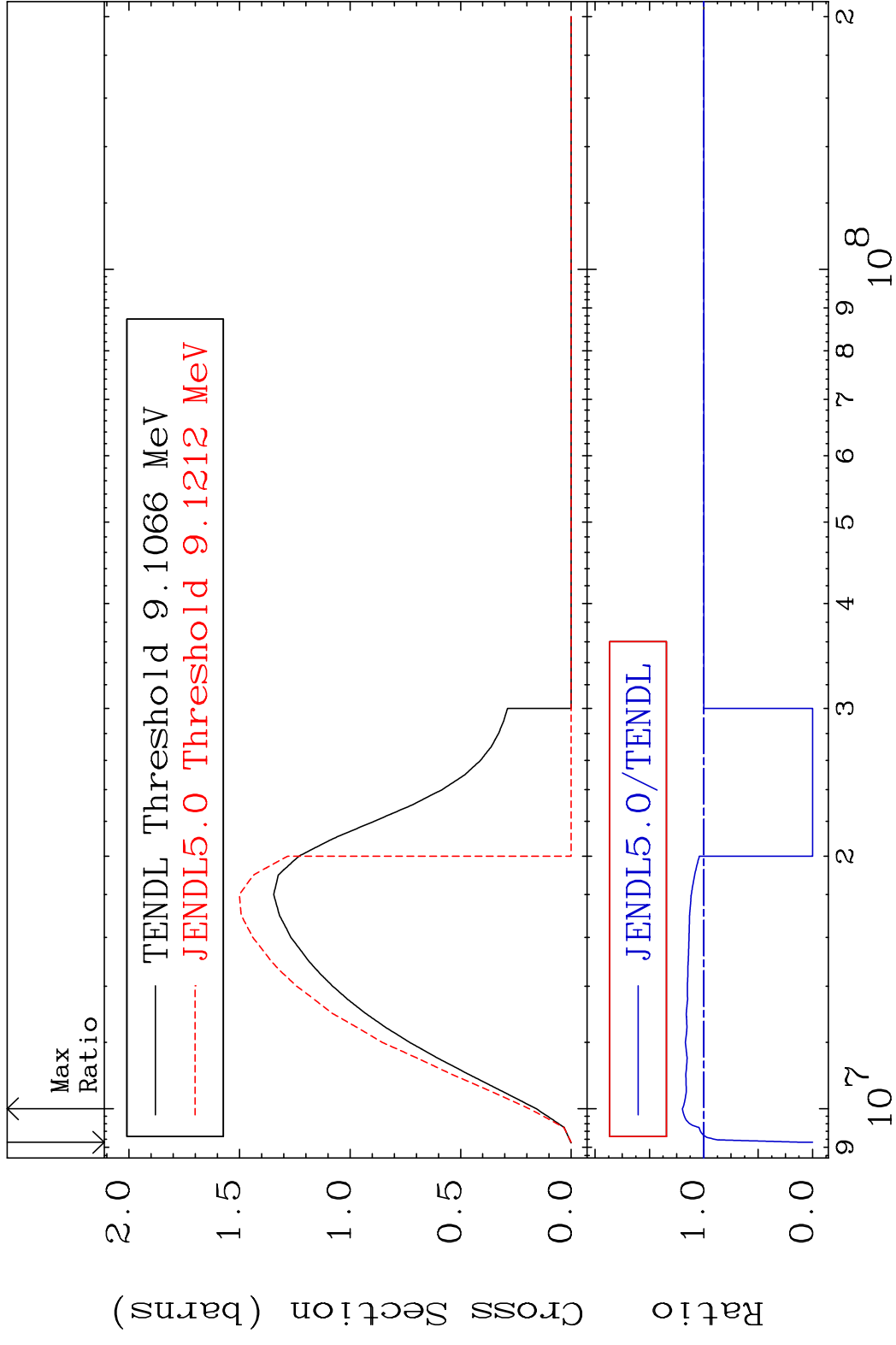
MAT 8025 Dpa disappearance (mt102 -120) 80-Hg-196
 Cross Section -100.0 To 9999. %



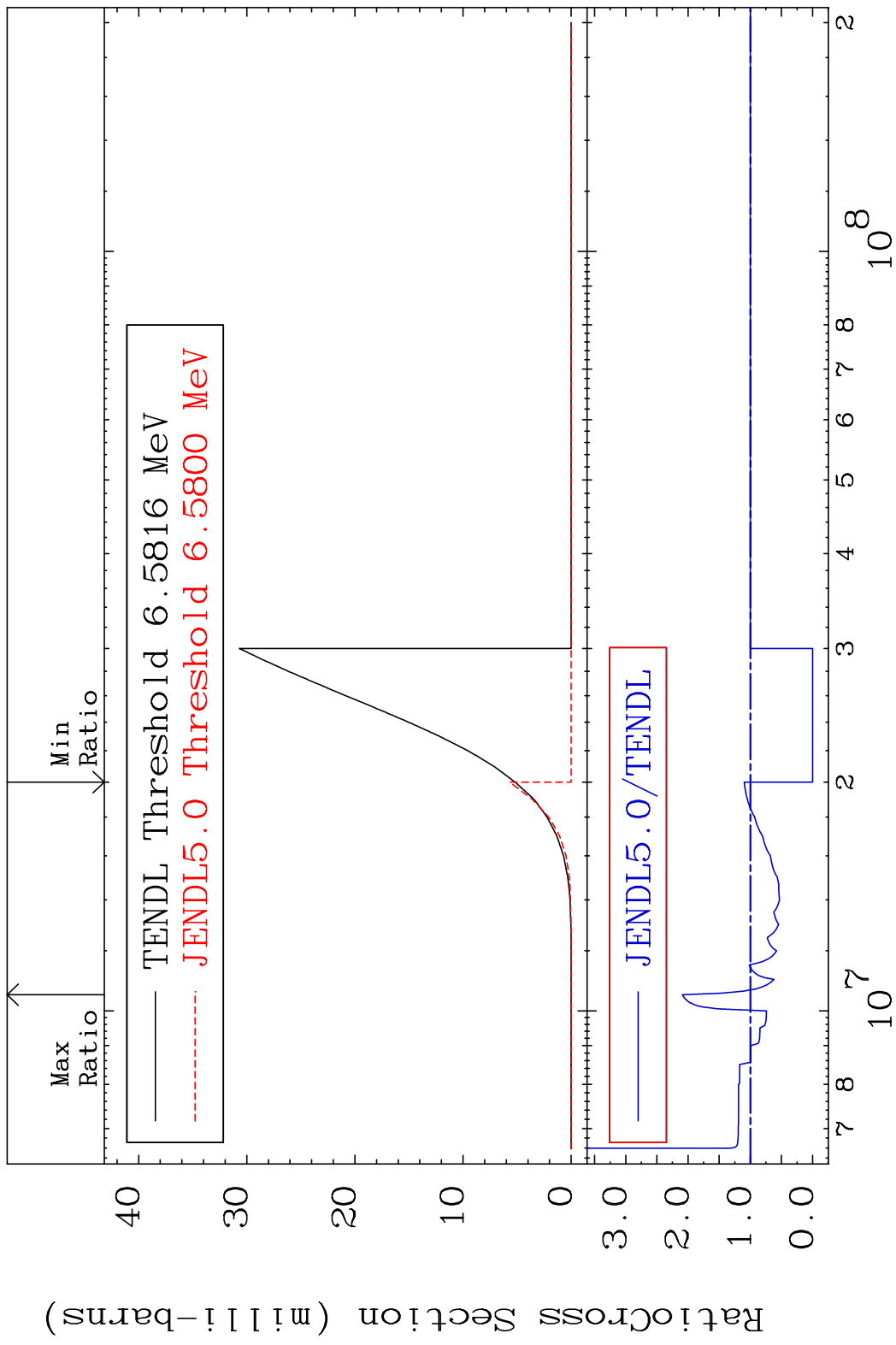
MAT 8025 (n,2n):80-Hg-195g 80-Hg-196
 Radionuclide Production Cross Section 1390. %

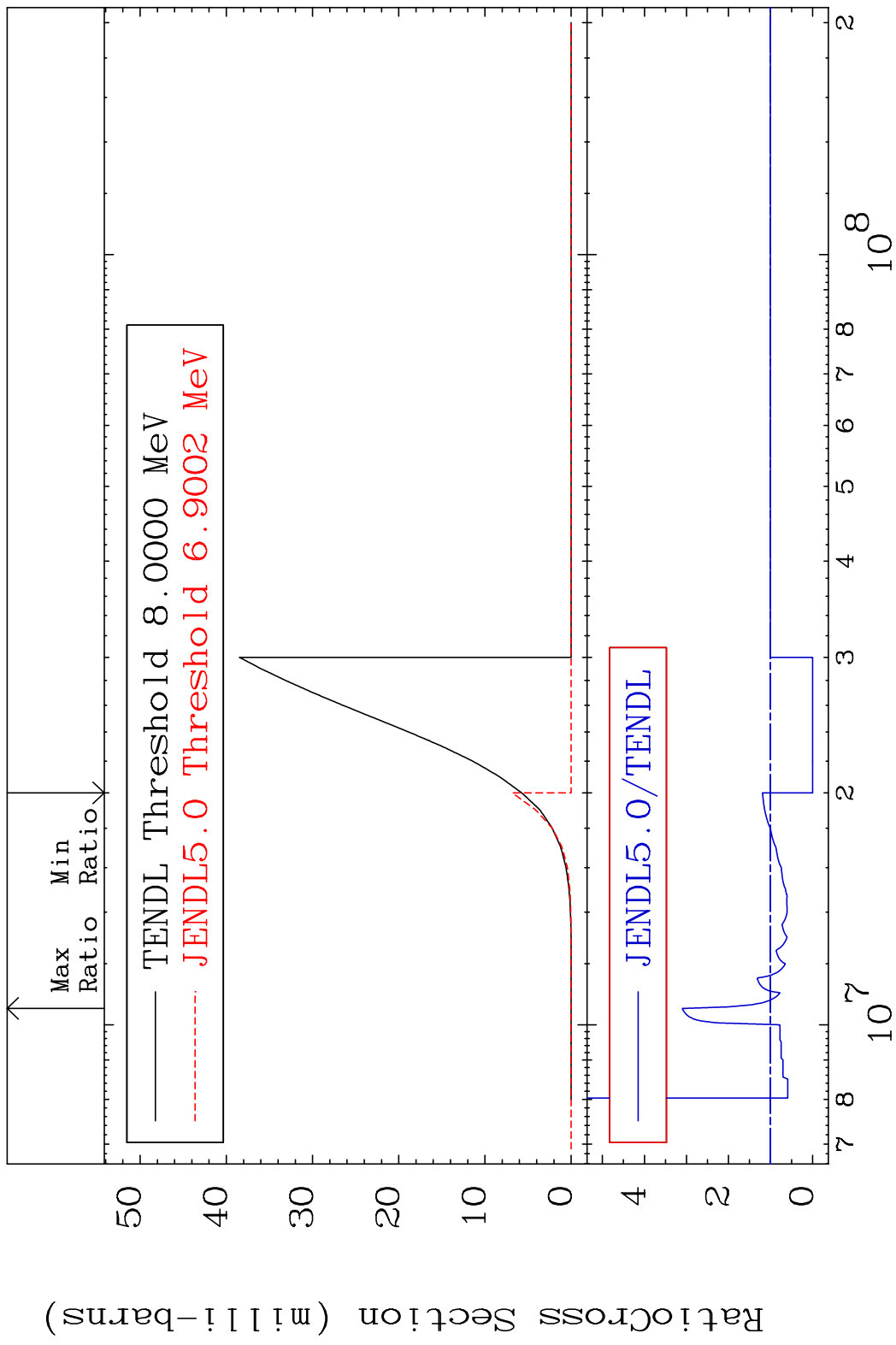


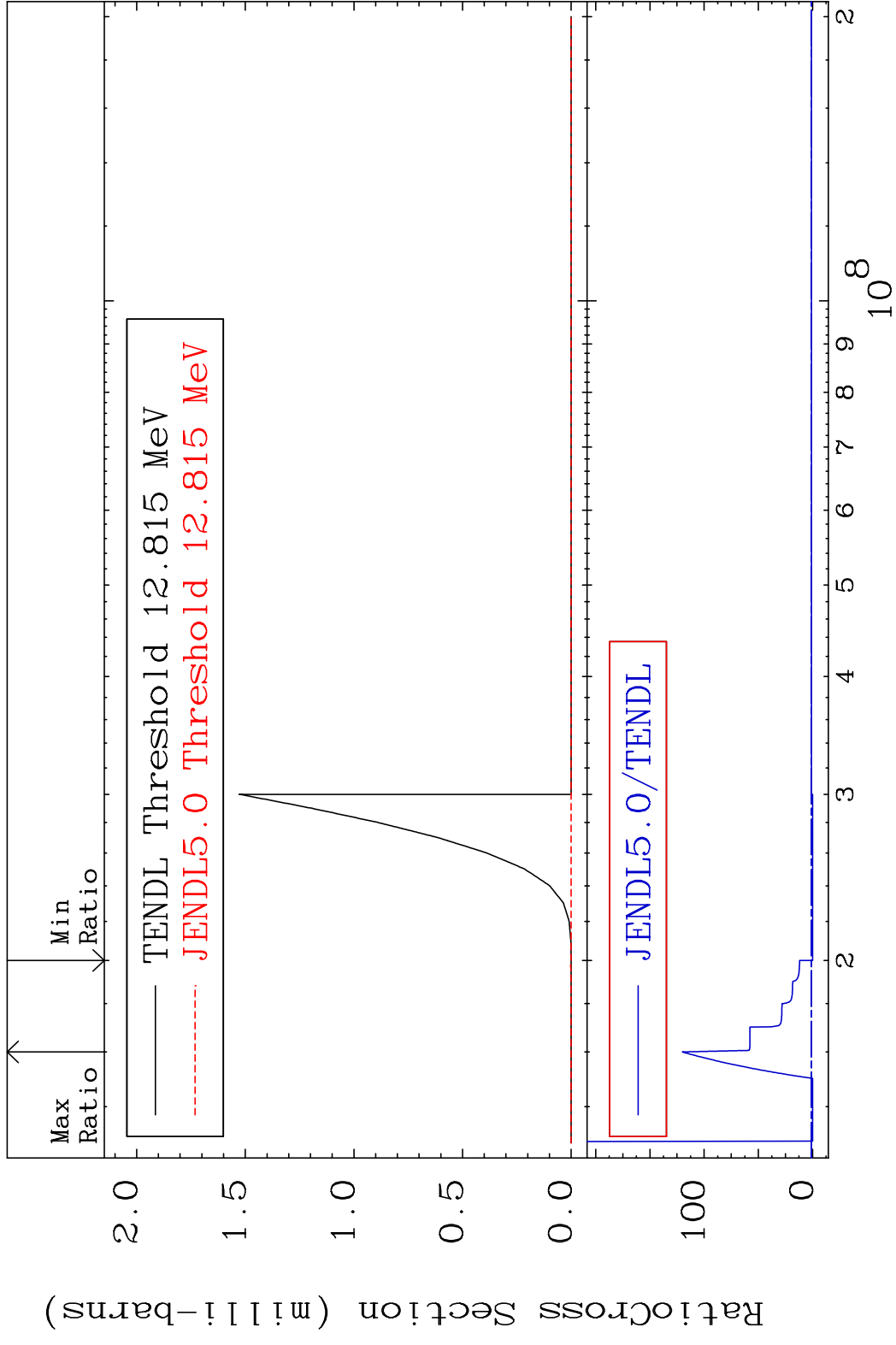
MAT 8025 (n,2n):80-Hg-195m3 80-Hg-196
 Radionuclide Production Cross Section Ratio 19.73 %

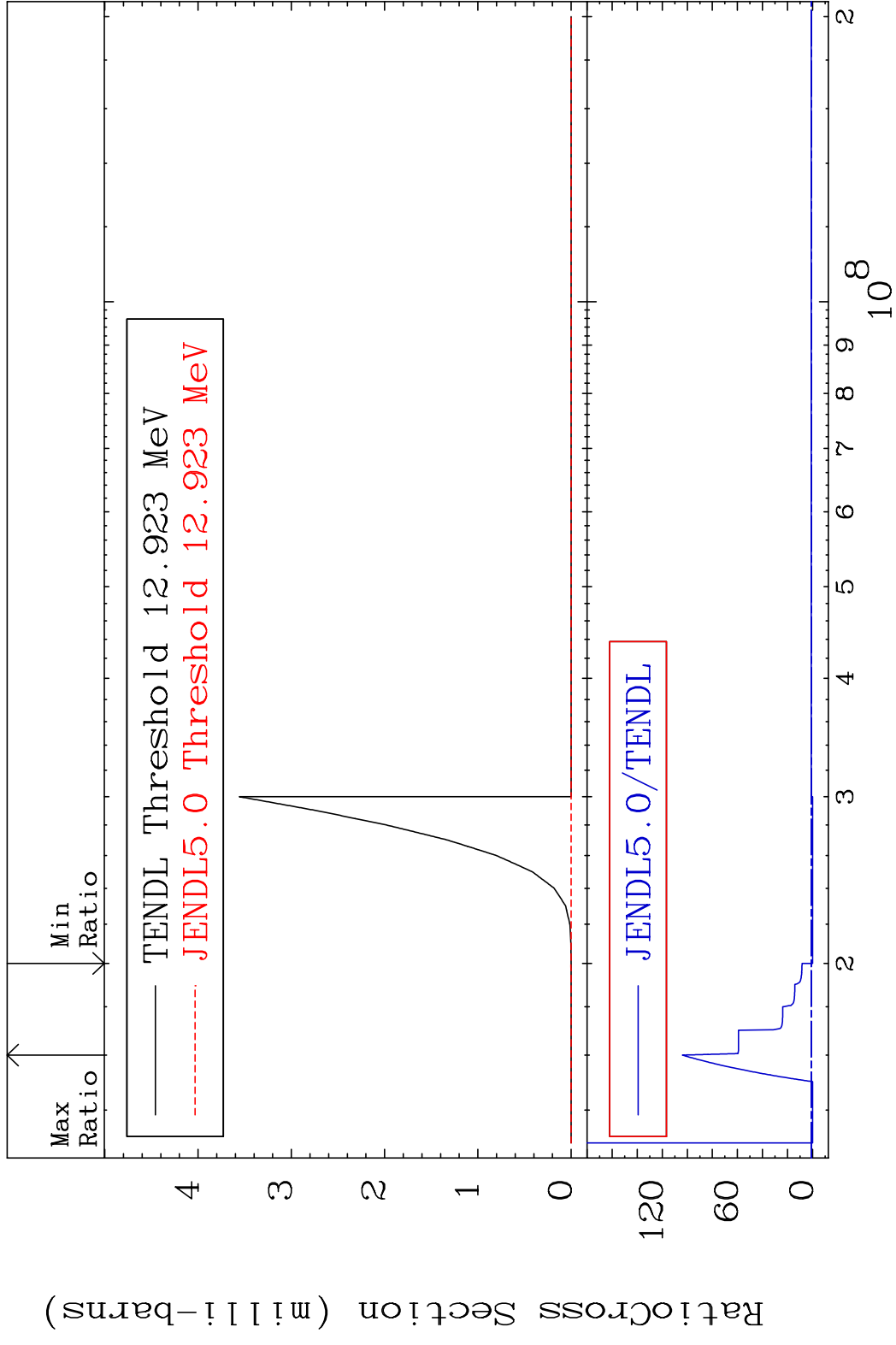


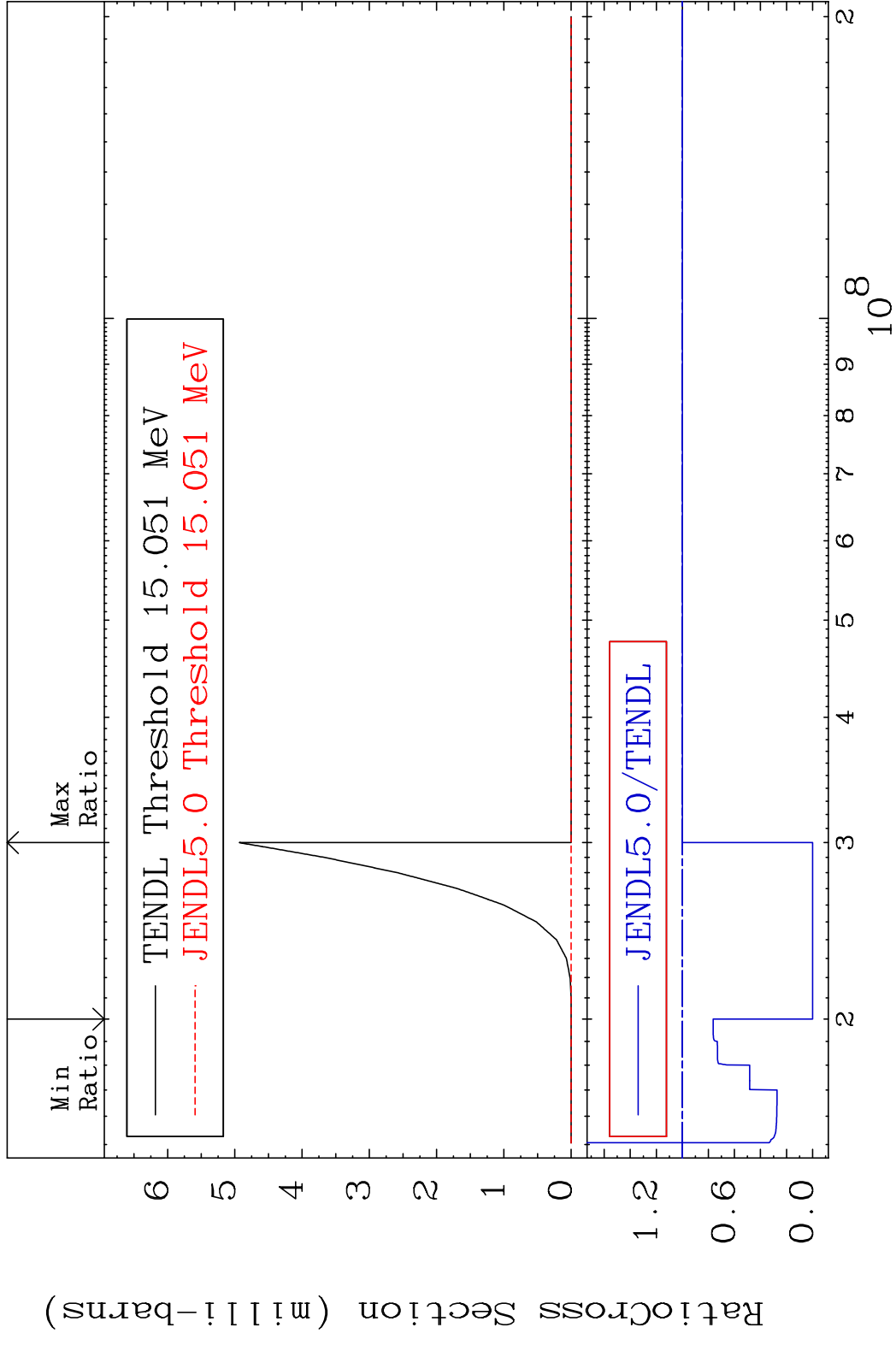
60 Incident Energy (eV) 80-Hg-196

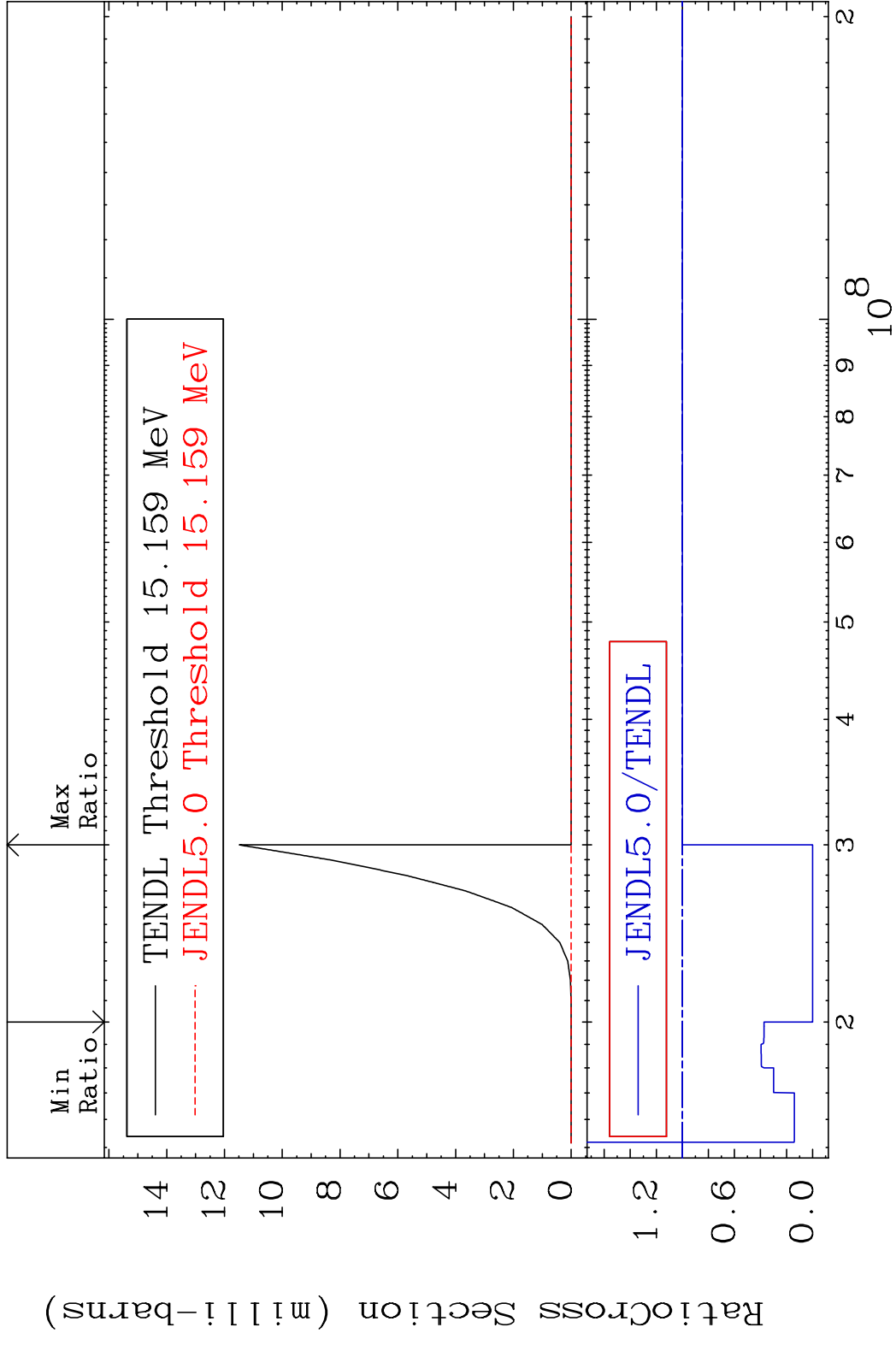


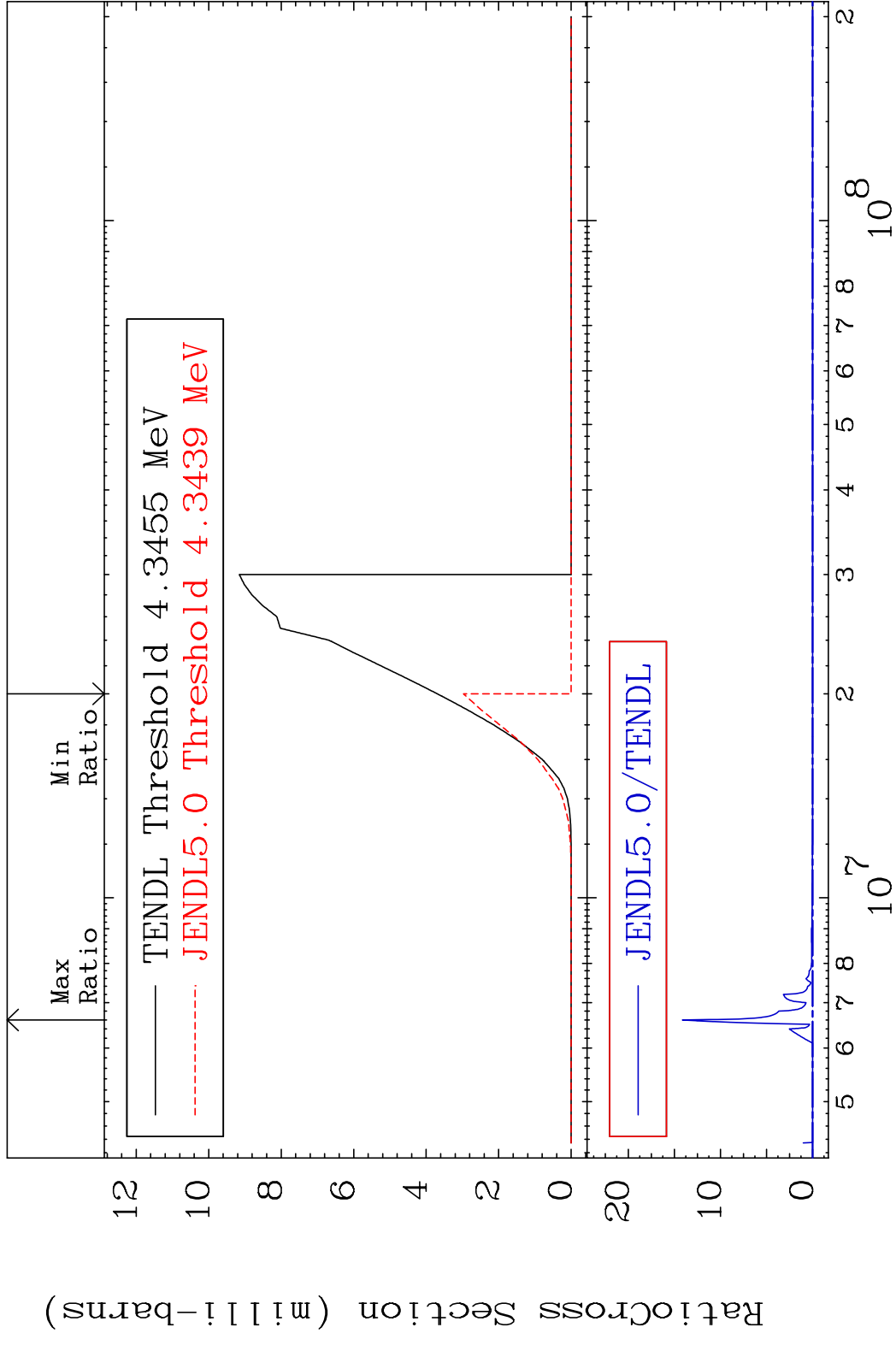




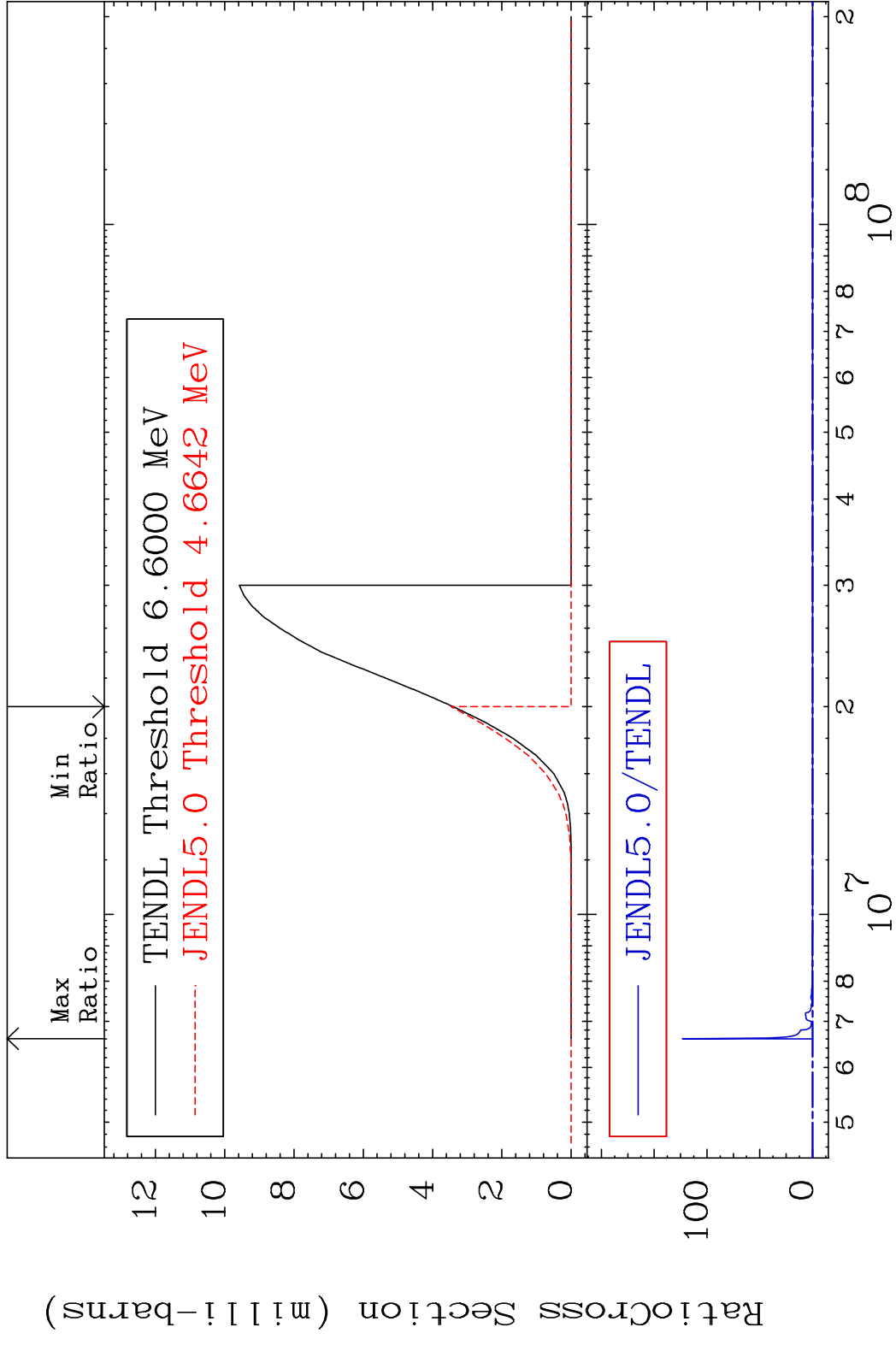


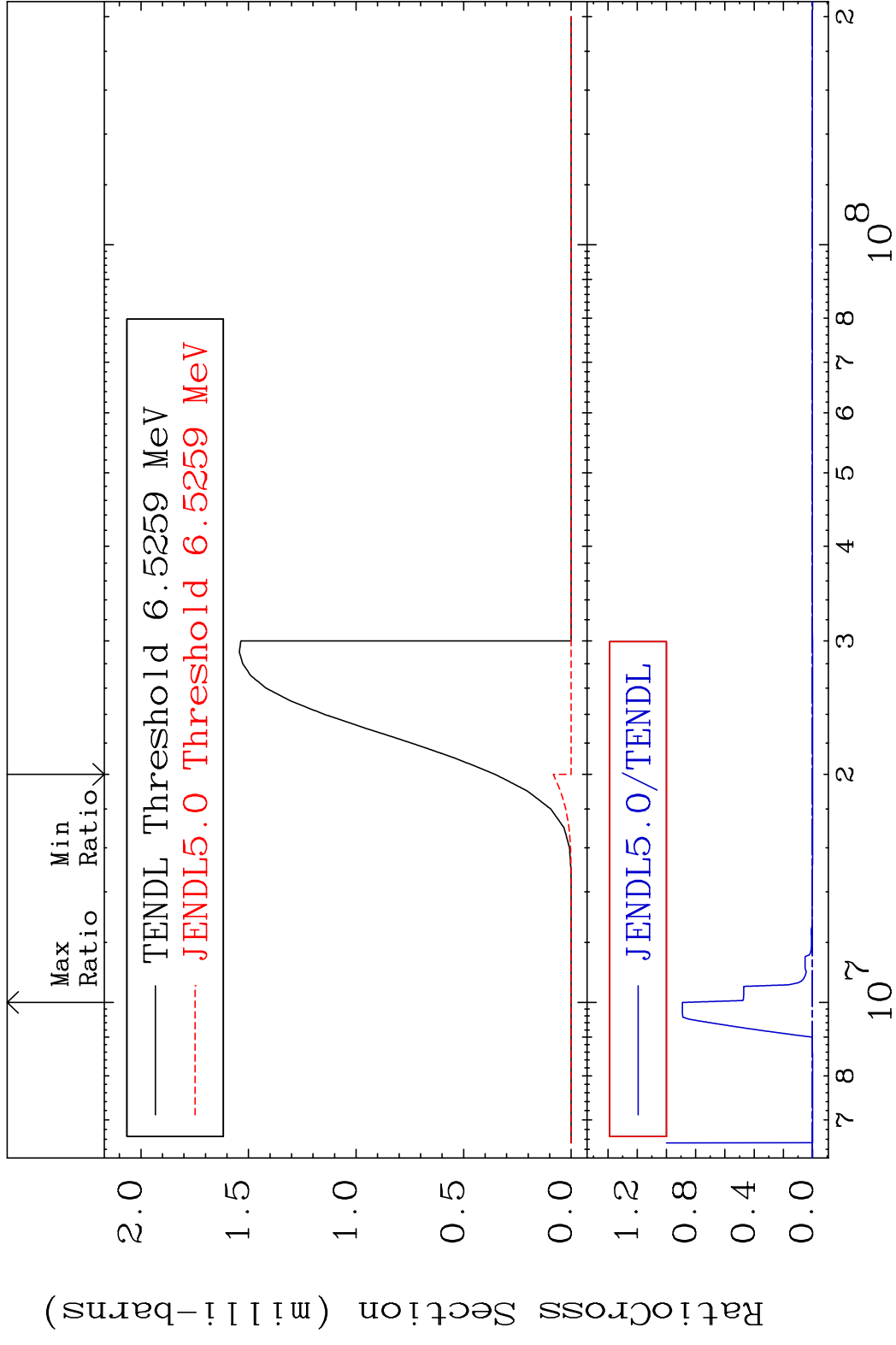




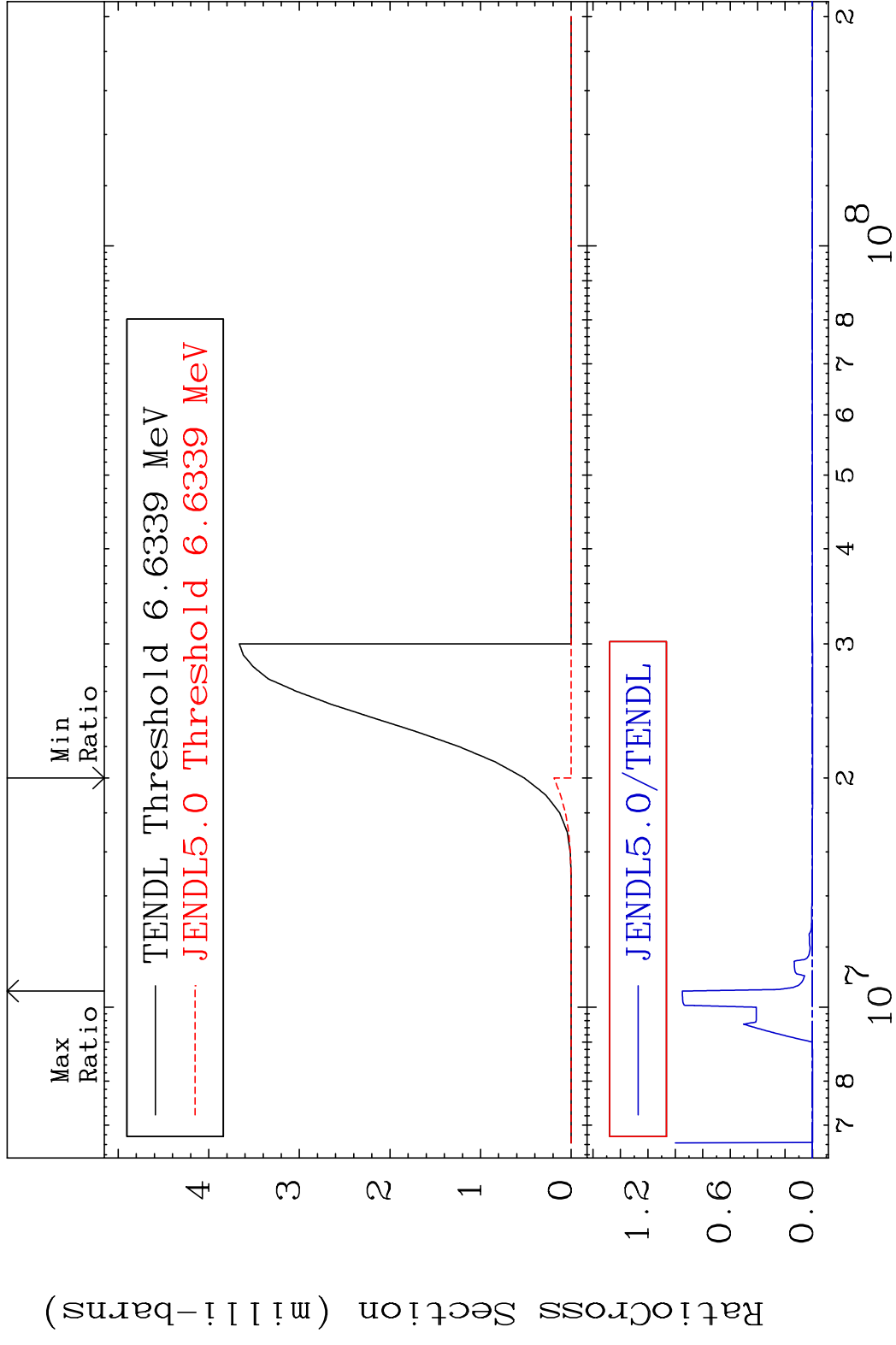


MAT 8025 (n, d):79-Au-195m4 80-Hg-196
 Radionuclide Production Cross Section Ratio 9999. %





MAT 8025 (n, t):79-Au-194m3 80-Hg-196
 Radionuclide Production Cross Section Ratio 9999. %



70 Incident Energy (eV) 80-Hg-196