

Program Complot
(Version 2021-1)

by

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(Present Contact Information)

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U.S.A.

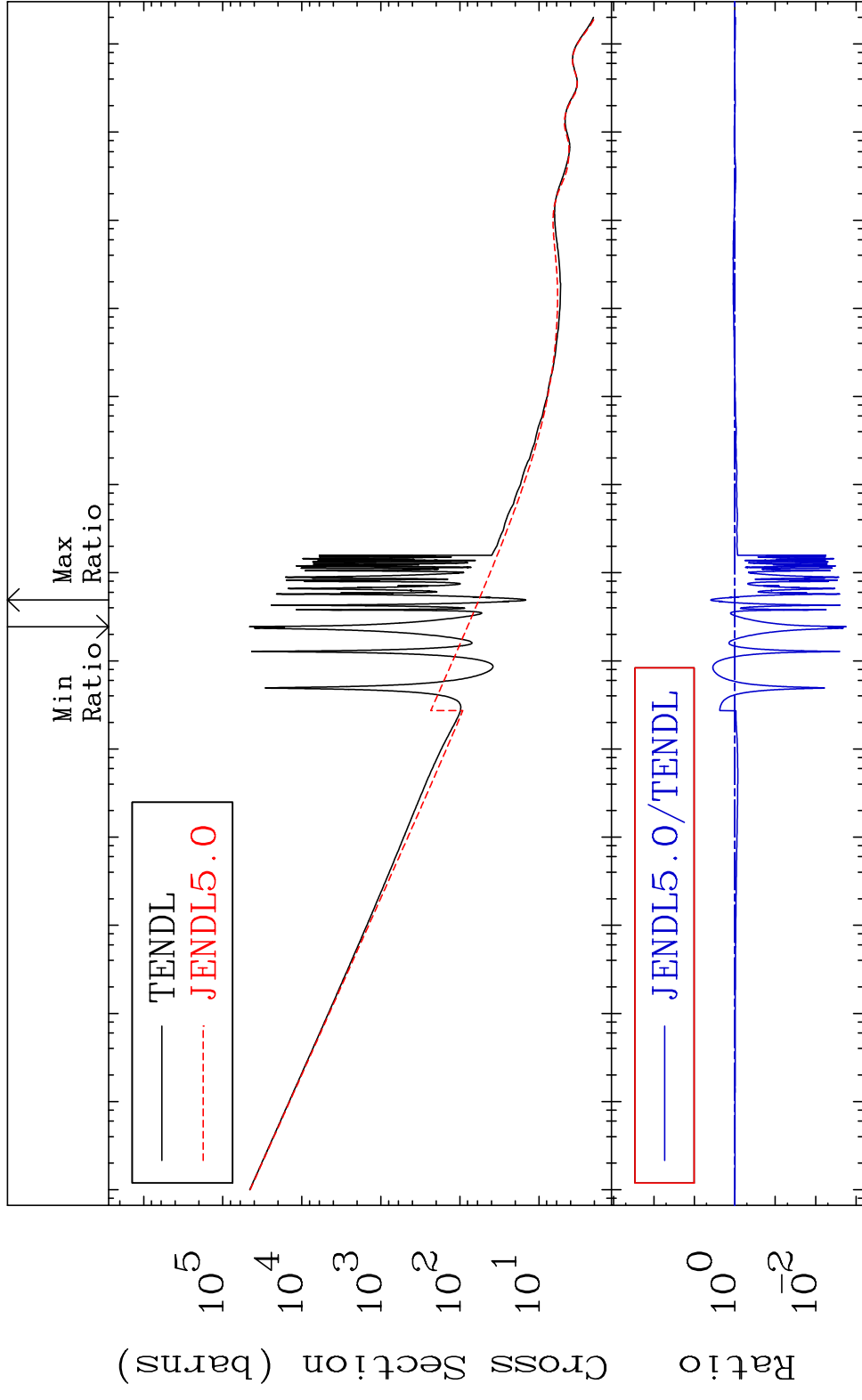
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 5319

Total Cross Section
53-I -125
-99.83 To 294.7 %

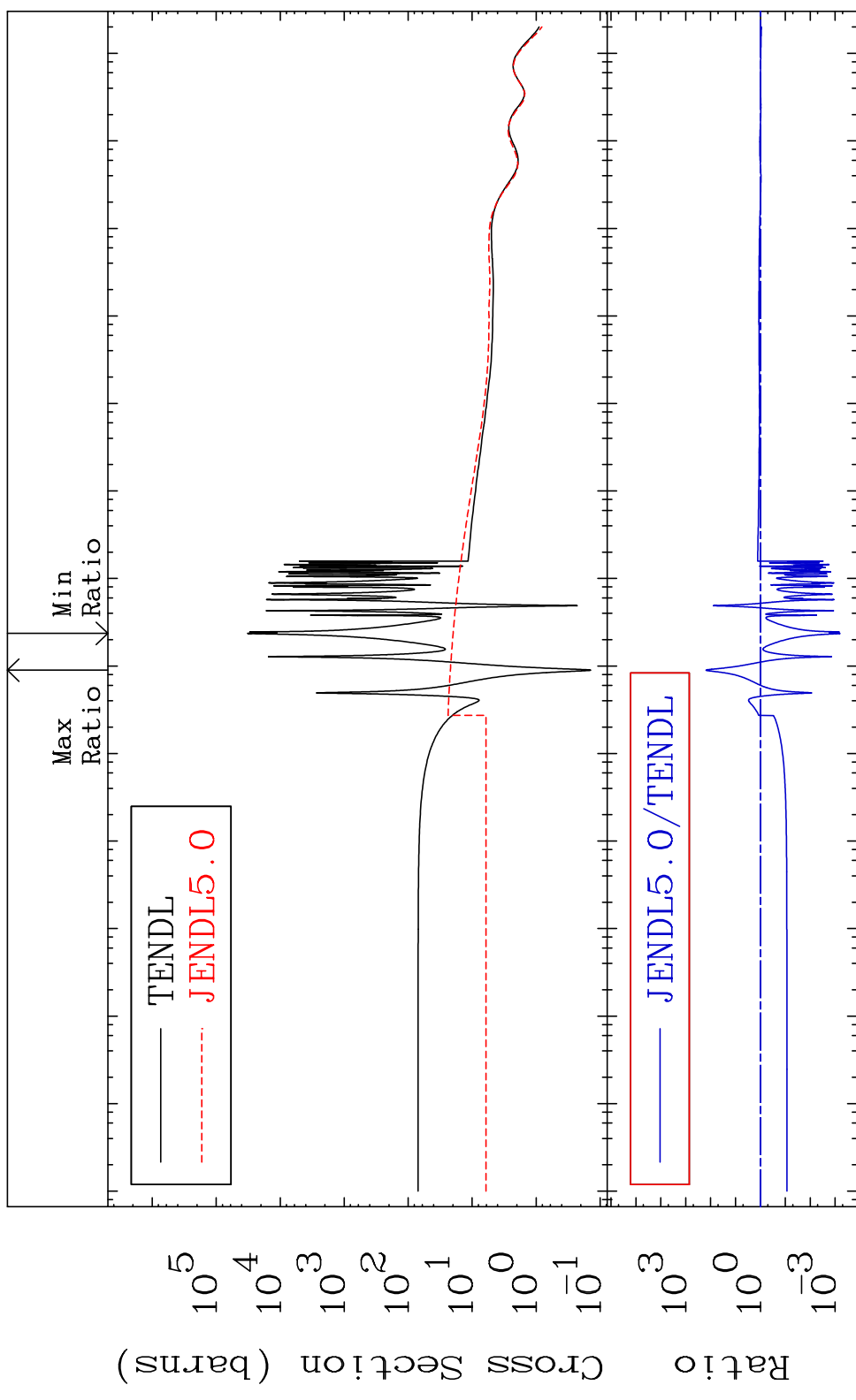


Ratio
10⁵
10⁴
10³
10²
10¹
10⁰
10⁻²
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

1 Incident Energy (eV) 53-I -125

MAT 5319

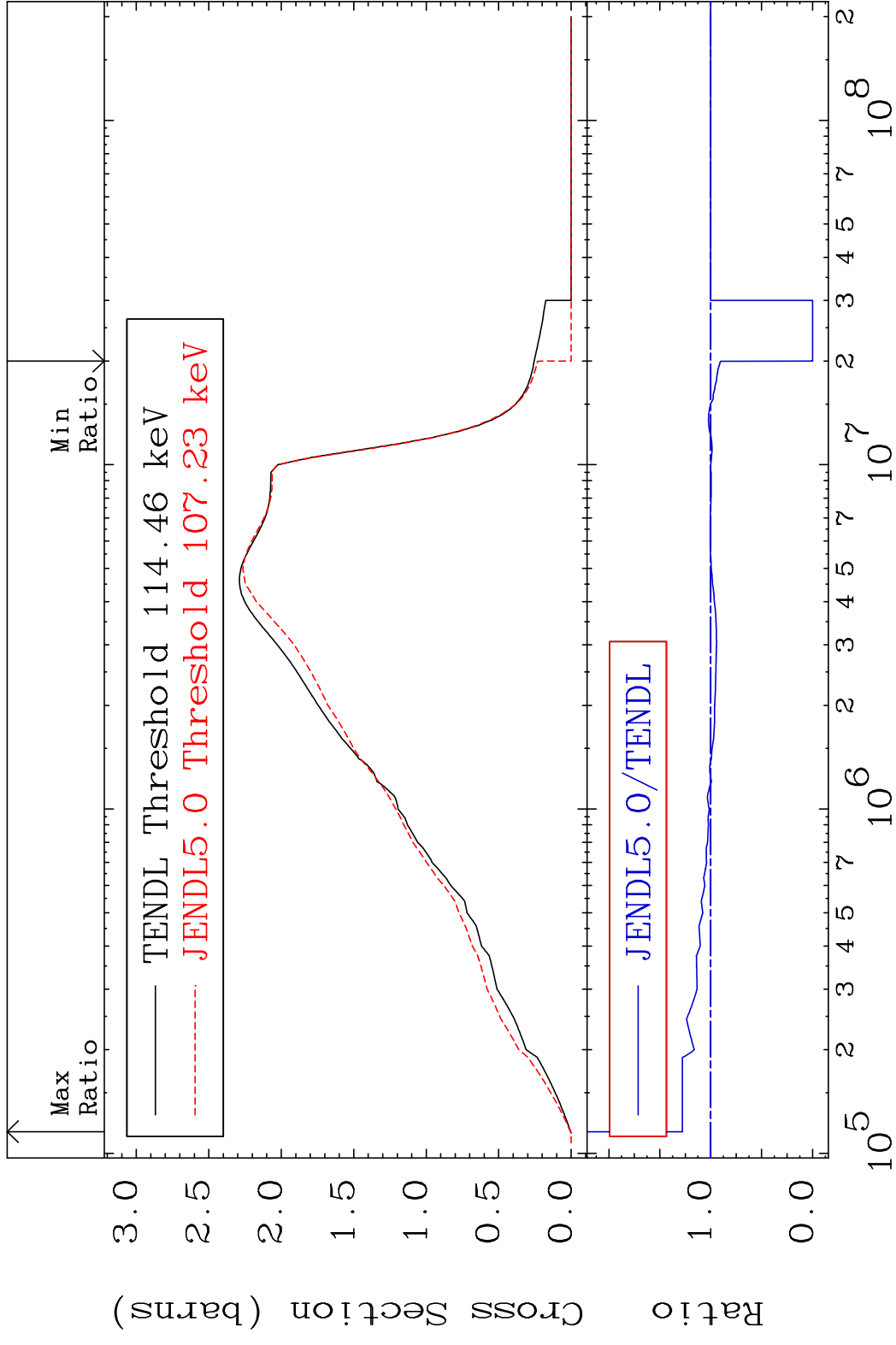
Elastic Cross Section 53-I -125
-99.94 To 9999. %



2

Incident Energy (eV) 53-I -125

MAT 5319 Inelastic 53-I -125
 Cross Section -100.0 To 27.84 %



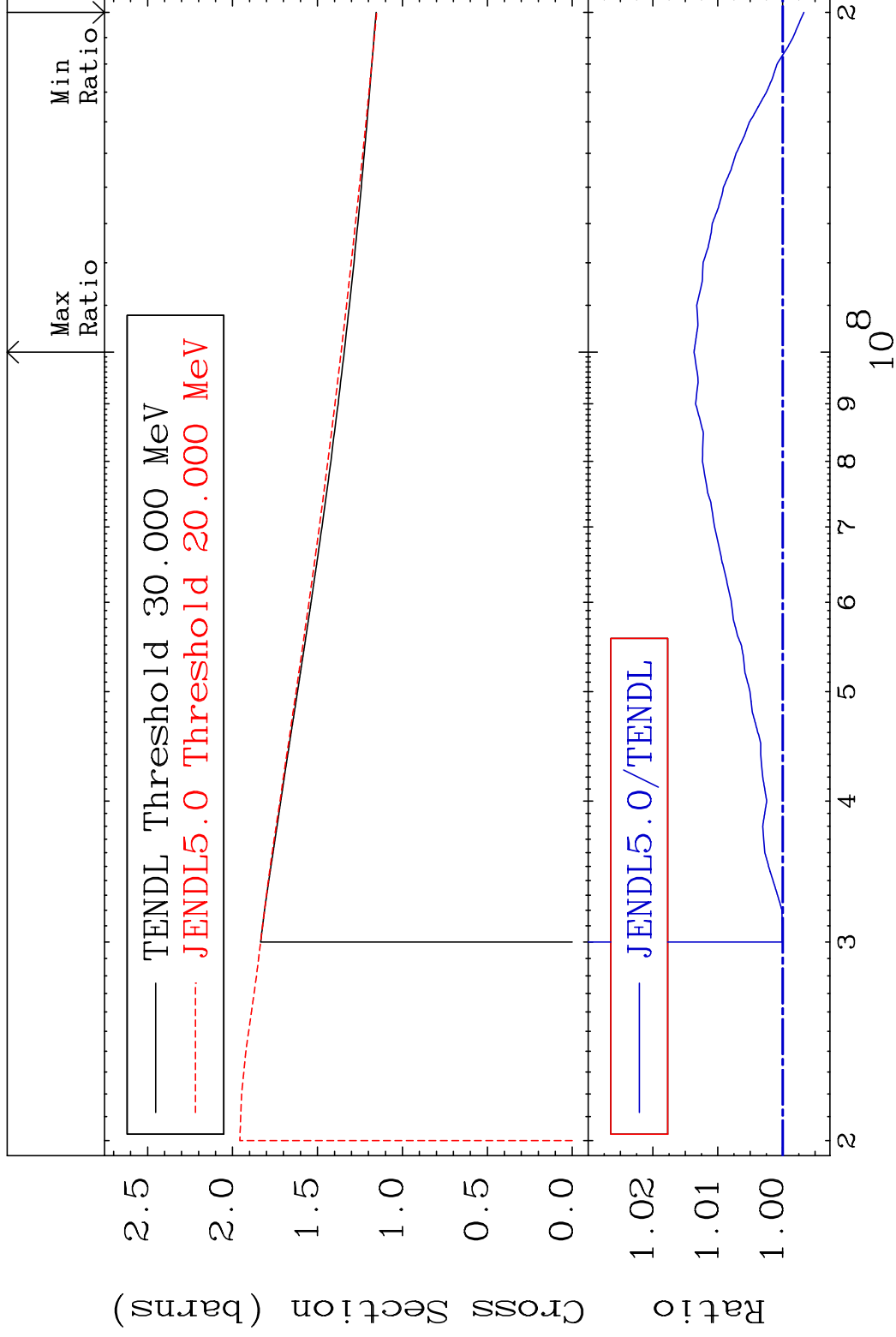
3 Incident Energy (eV) 53-I -125

MAT 5319

(n, remainder)

53-I -125

Cross Section -0.324 To 1.367 %



4

Incident Energy (eV)

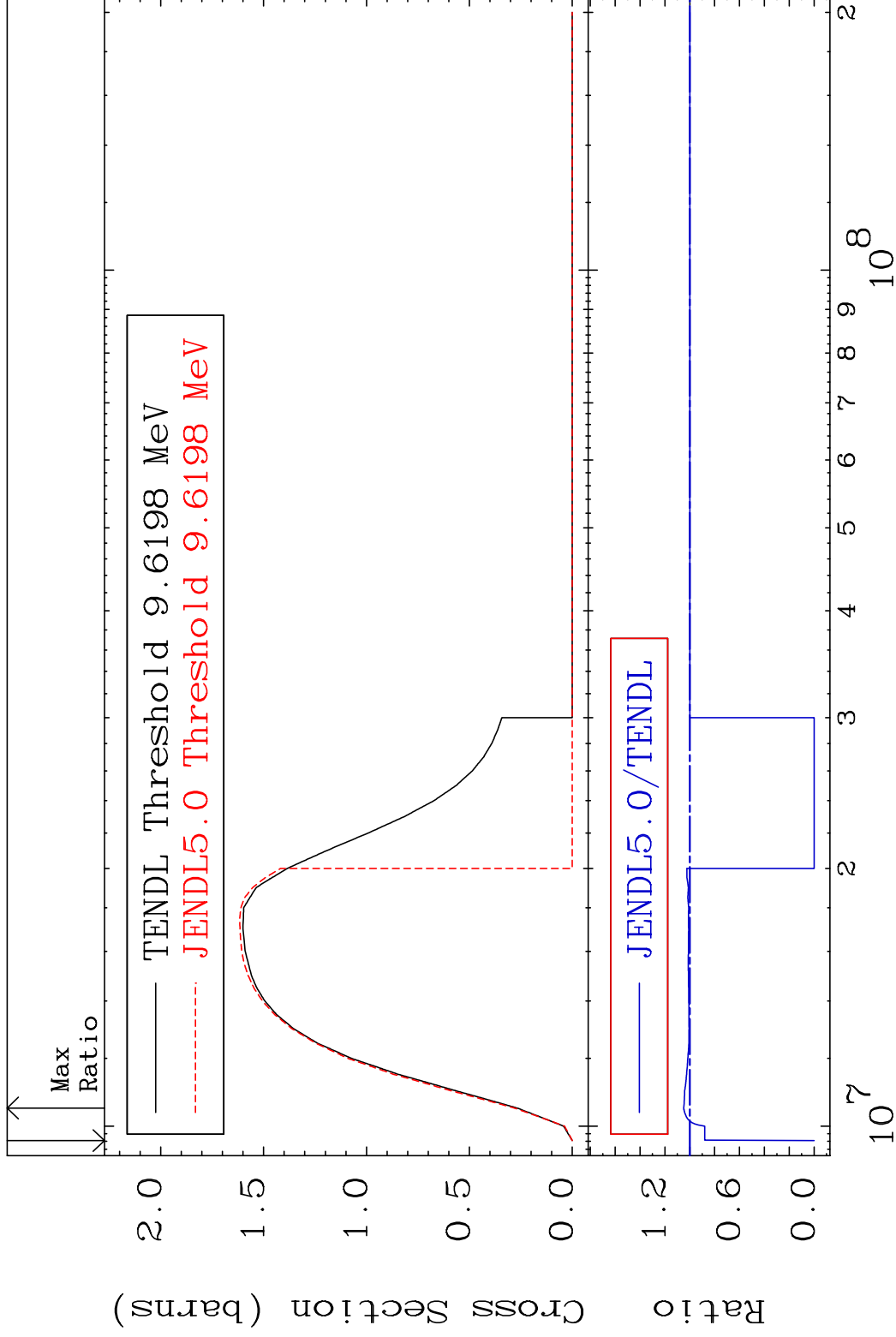
53-I -125

MAT 5319

(n,2n)

53-I -125

Cross Section -100.0 To 4.920 %



5

Incident Energy (eV)

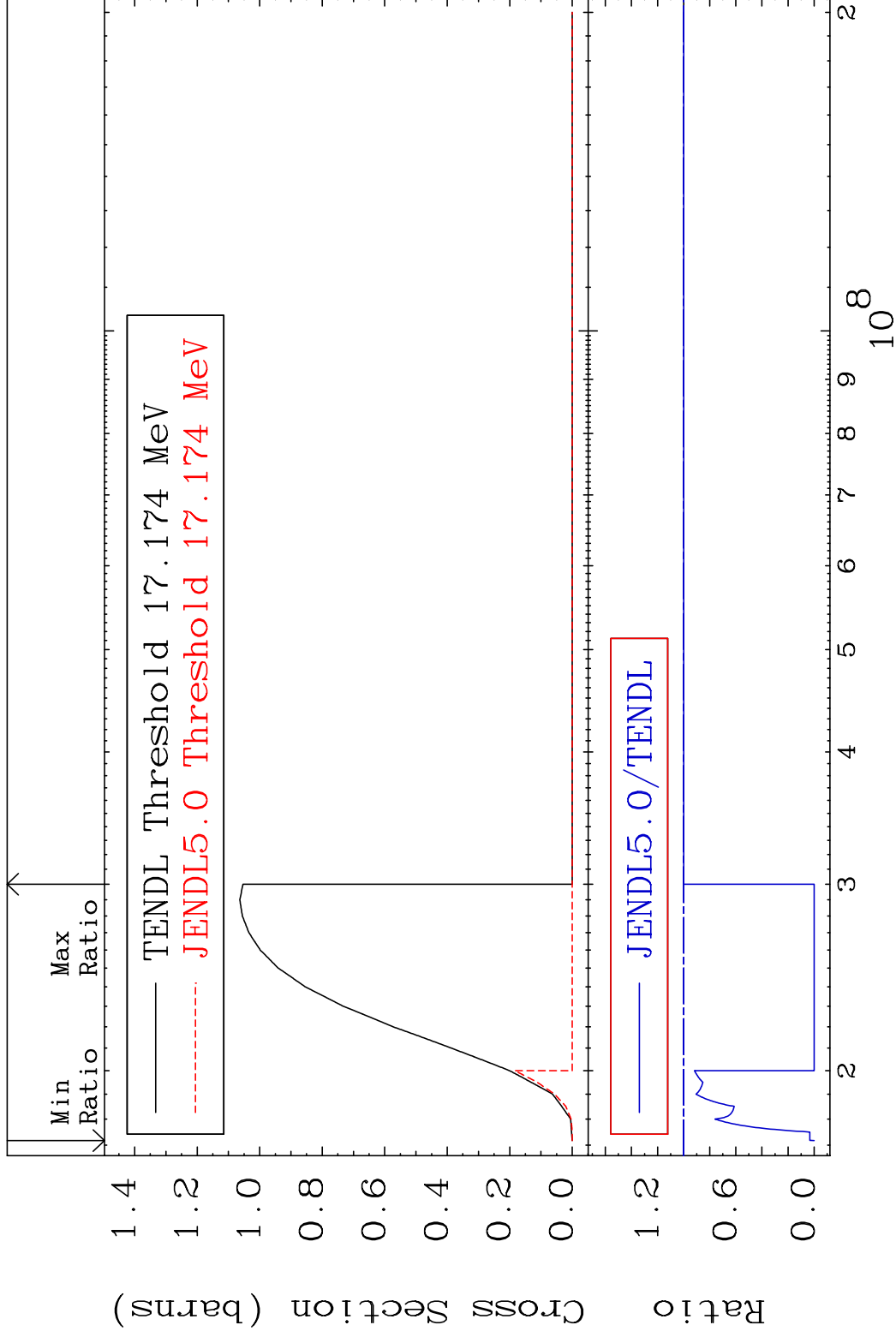
53-I -125

MAT 5319

(n,3n)

53-I -125

Cross Section -100.0 To 0.000 %

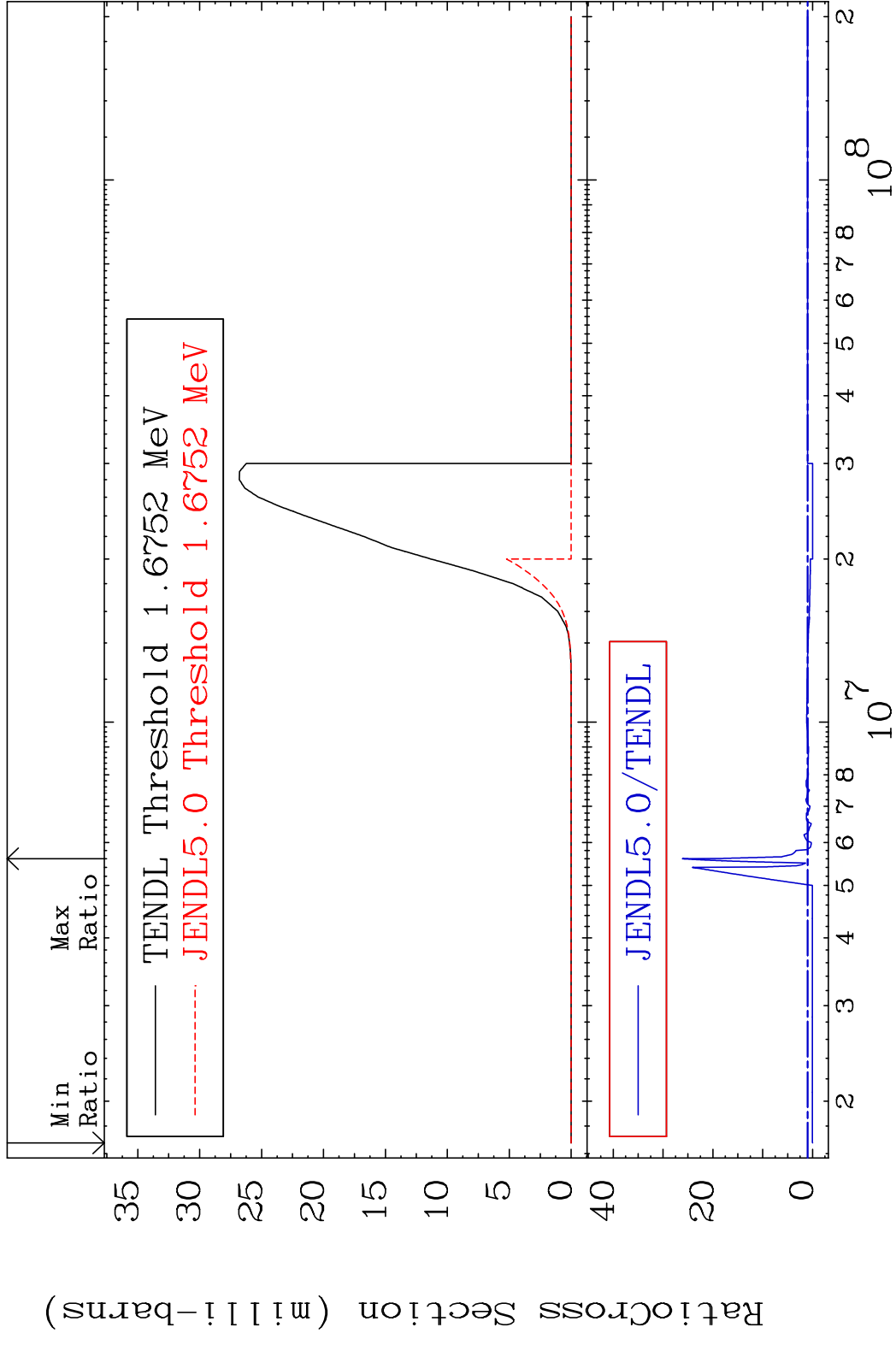


6

Incident Energy (eV)

53-I -125

MAT 5319 (n, n') α 53-I -125
 Cross Section -100.0 To 2513. %



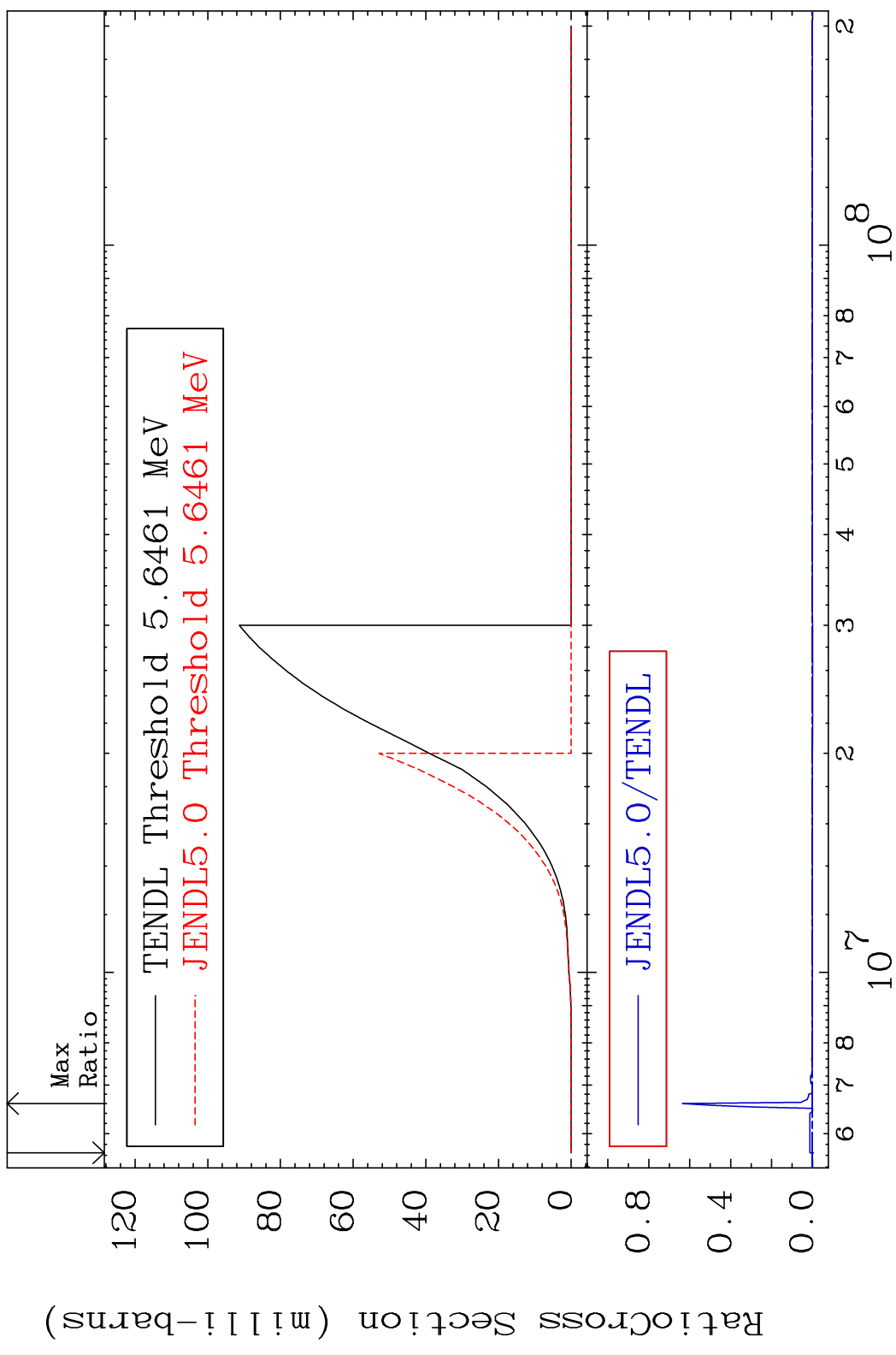
7 Incident Energy (eV) 53-I -125

MAT 5319

(n, n') p

53-I -125

Cross Section -100.0 To 9999. %



8

Incident Energy (eV)

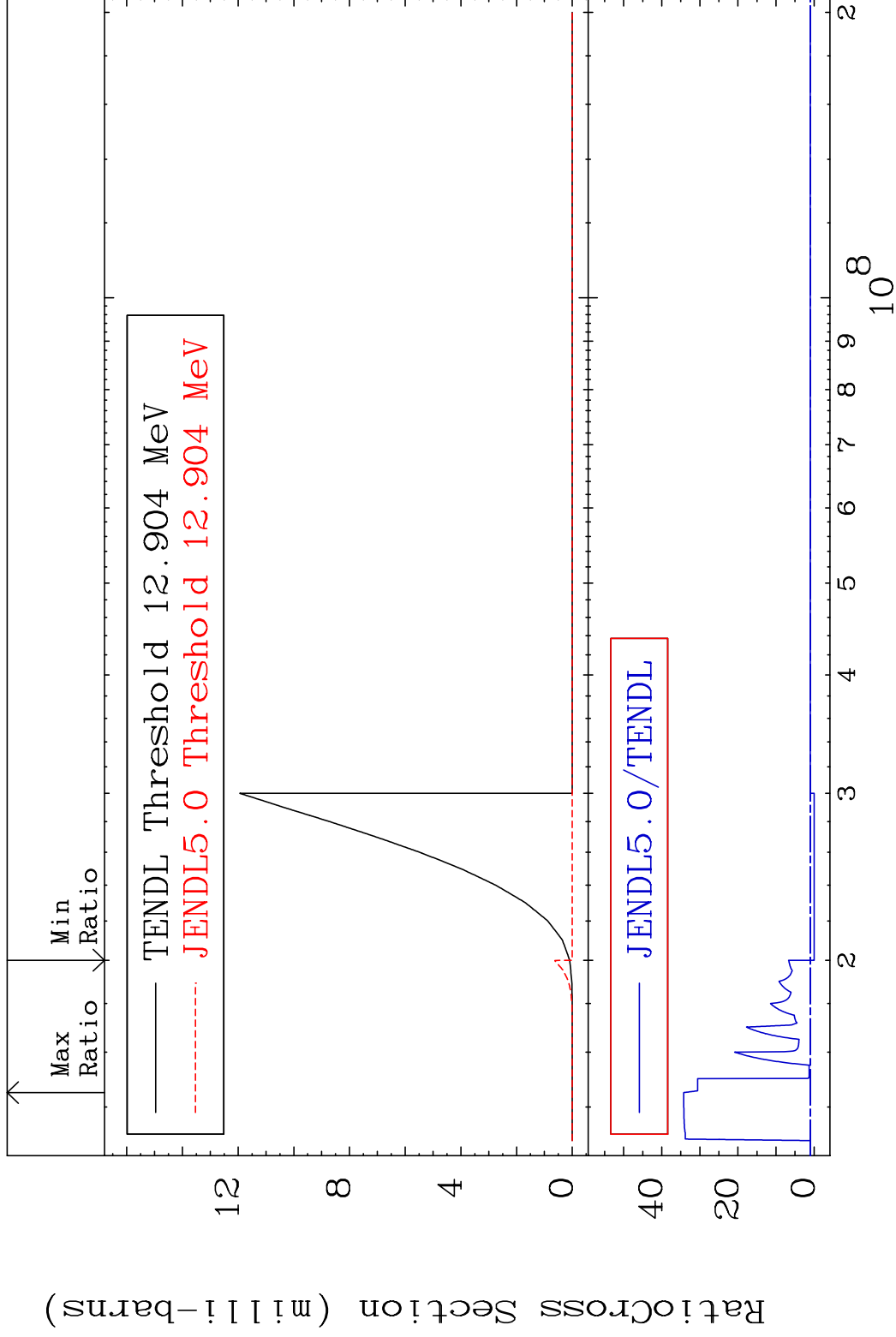
53-I -125

MAT 5319

(n, n') d

53-I -125

Cross Section -100.0 To 3325. %



9

Incident Energy (eV)

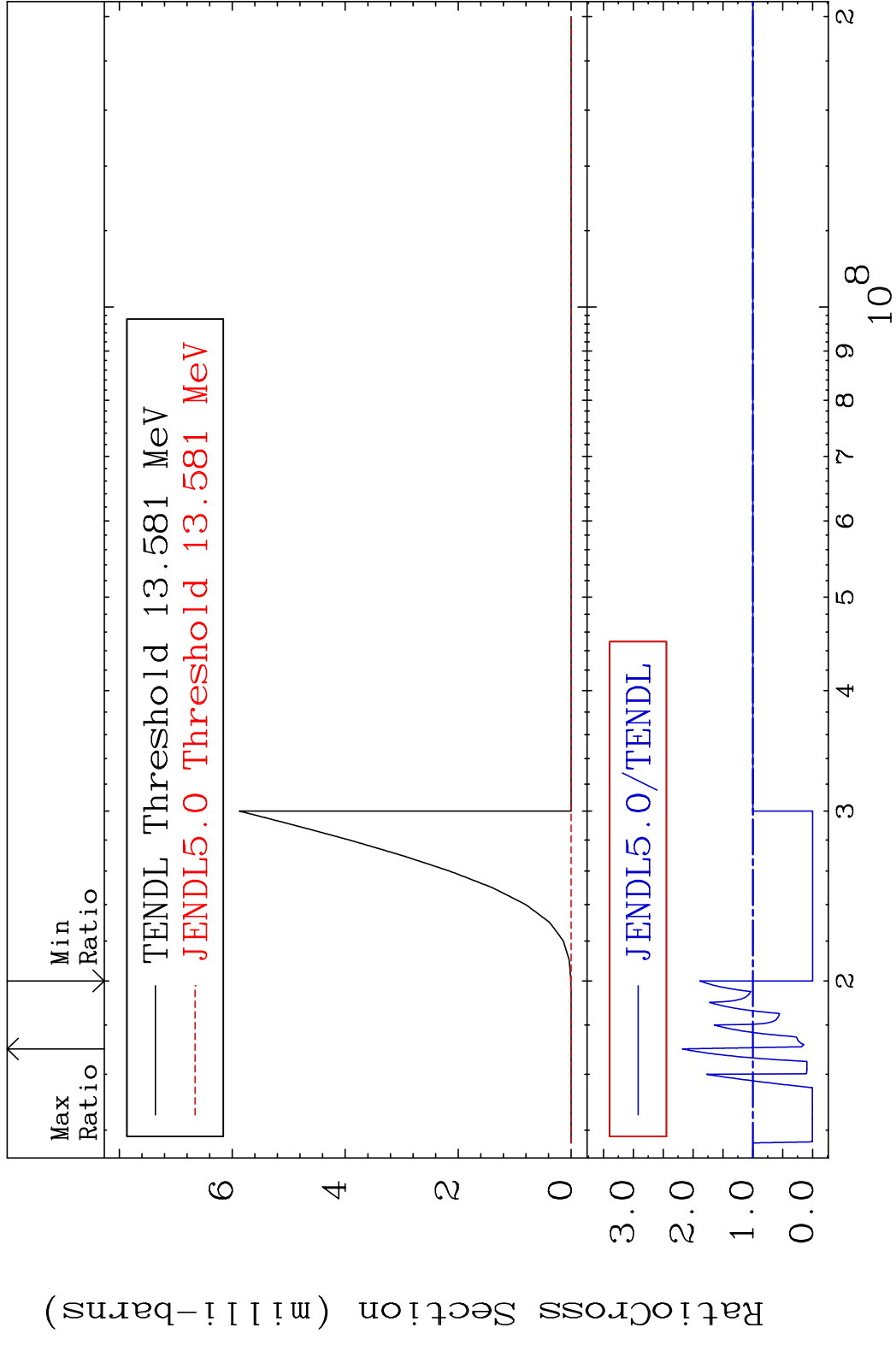
53-I -125

MAT 5319

(n, n') t

53-I -125

Cross Section -100.0 To 117.9 %

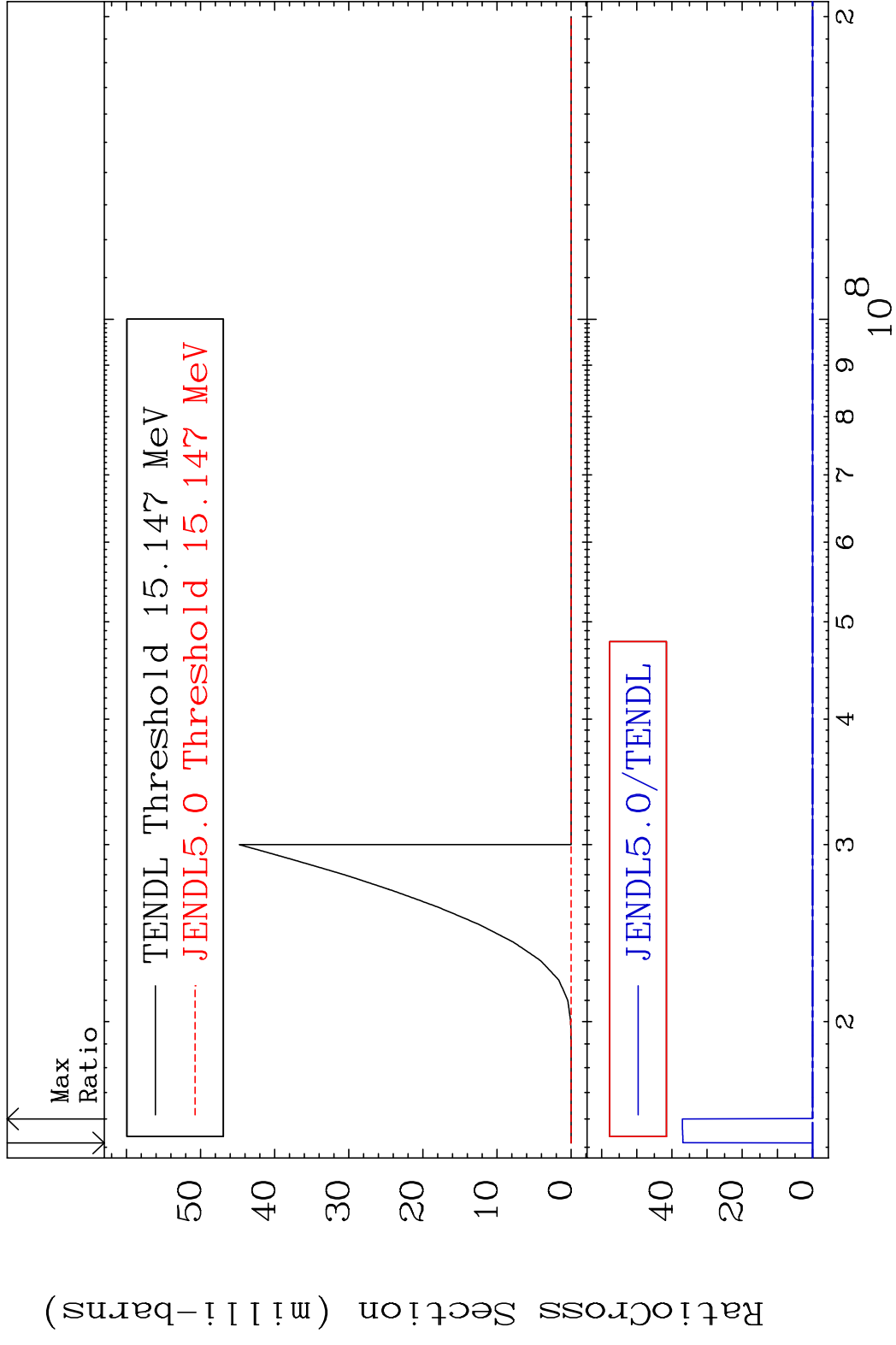


10

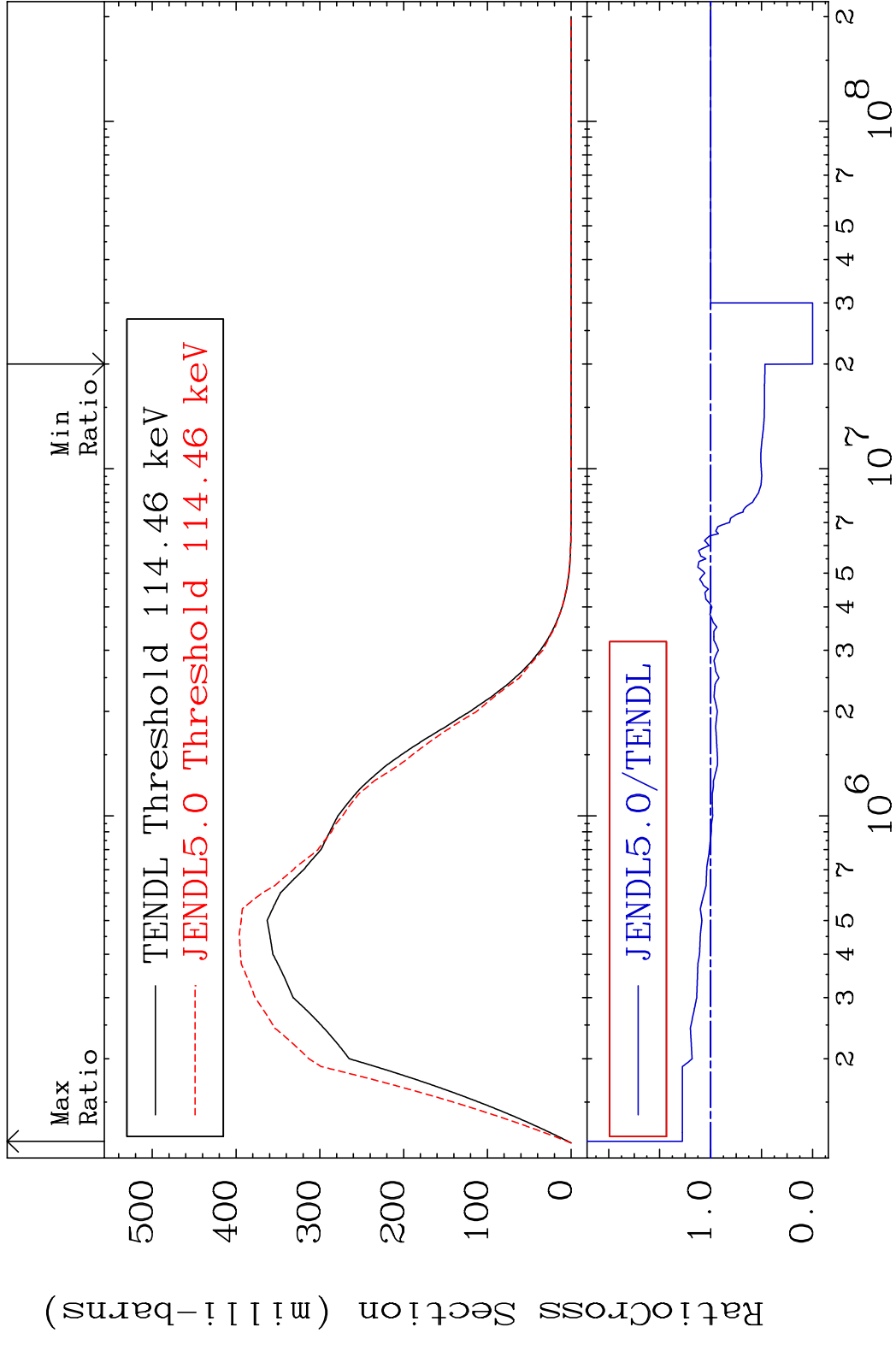
Incident Energy (eV)

53-I -125

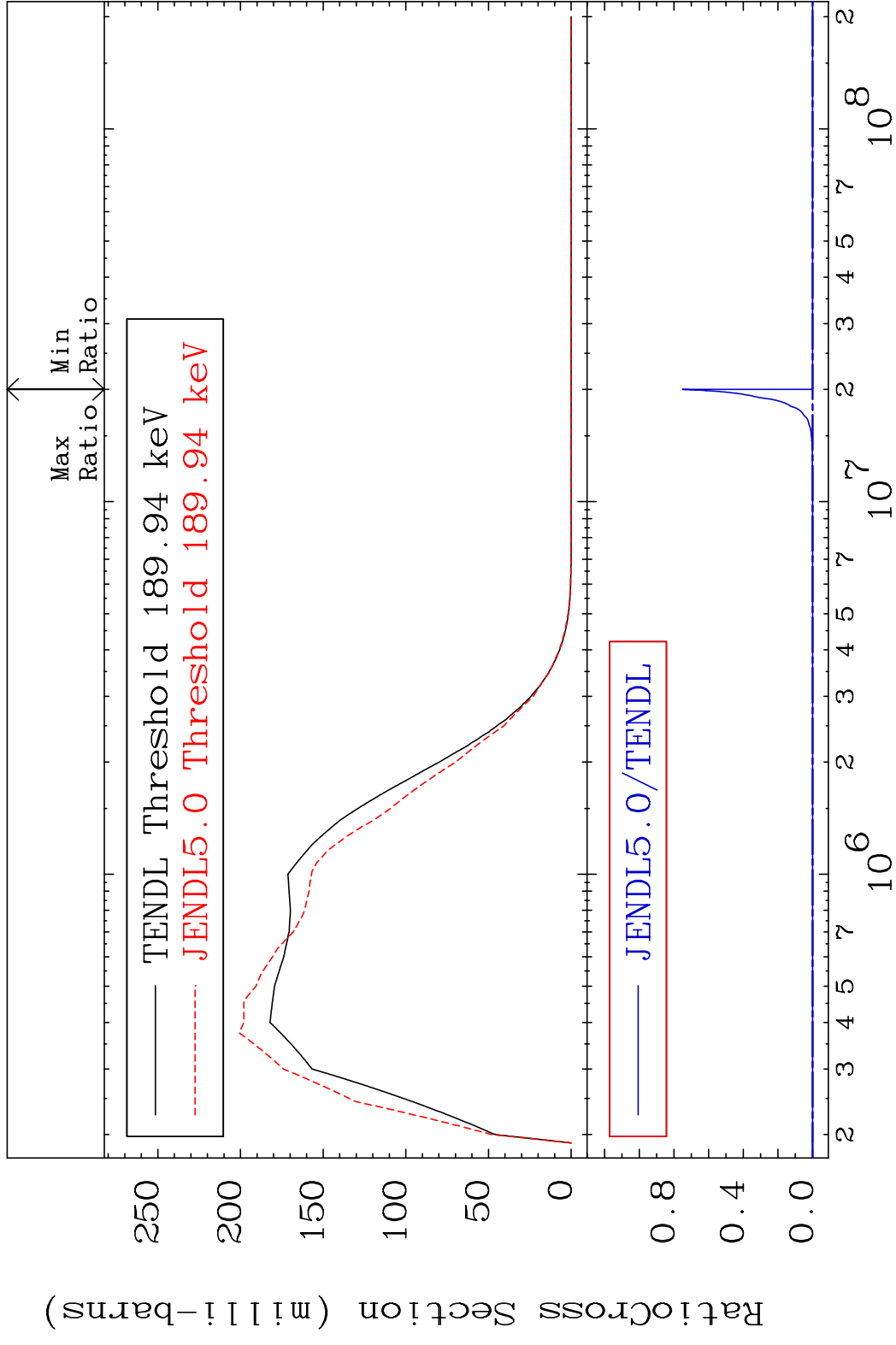
MAT 5319 (n,2n) p 53-I -125
 Cross Section -100.0 To 9999. %



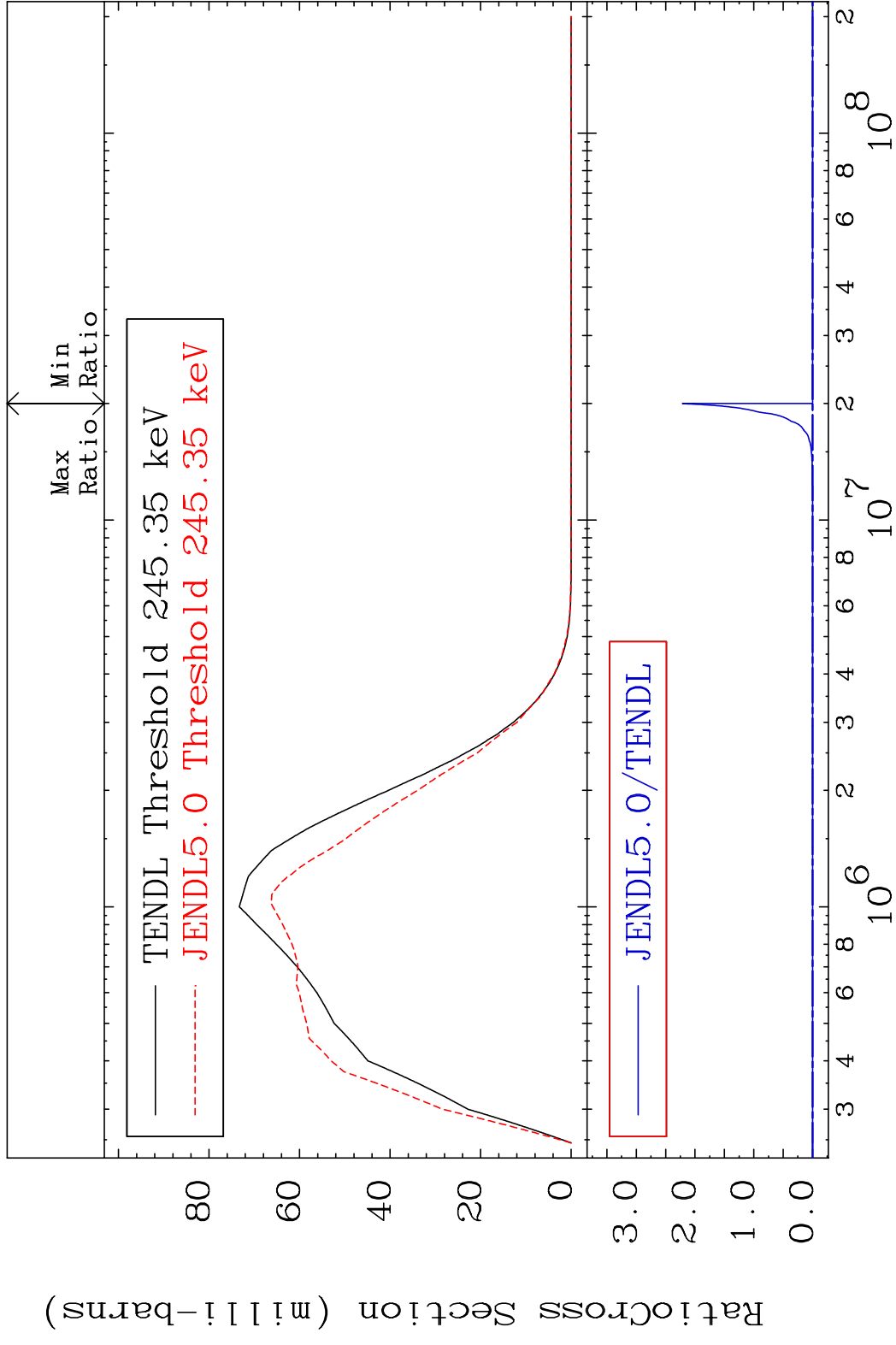
MAT 5319 MT= 51 (n,n') Level 53-I -125
 Cross Section -100.0 To 27.73 %



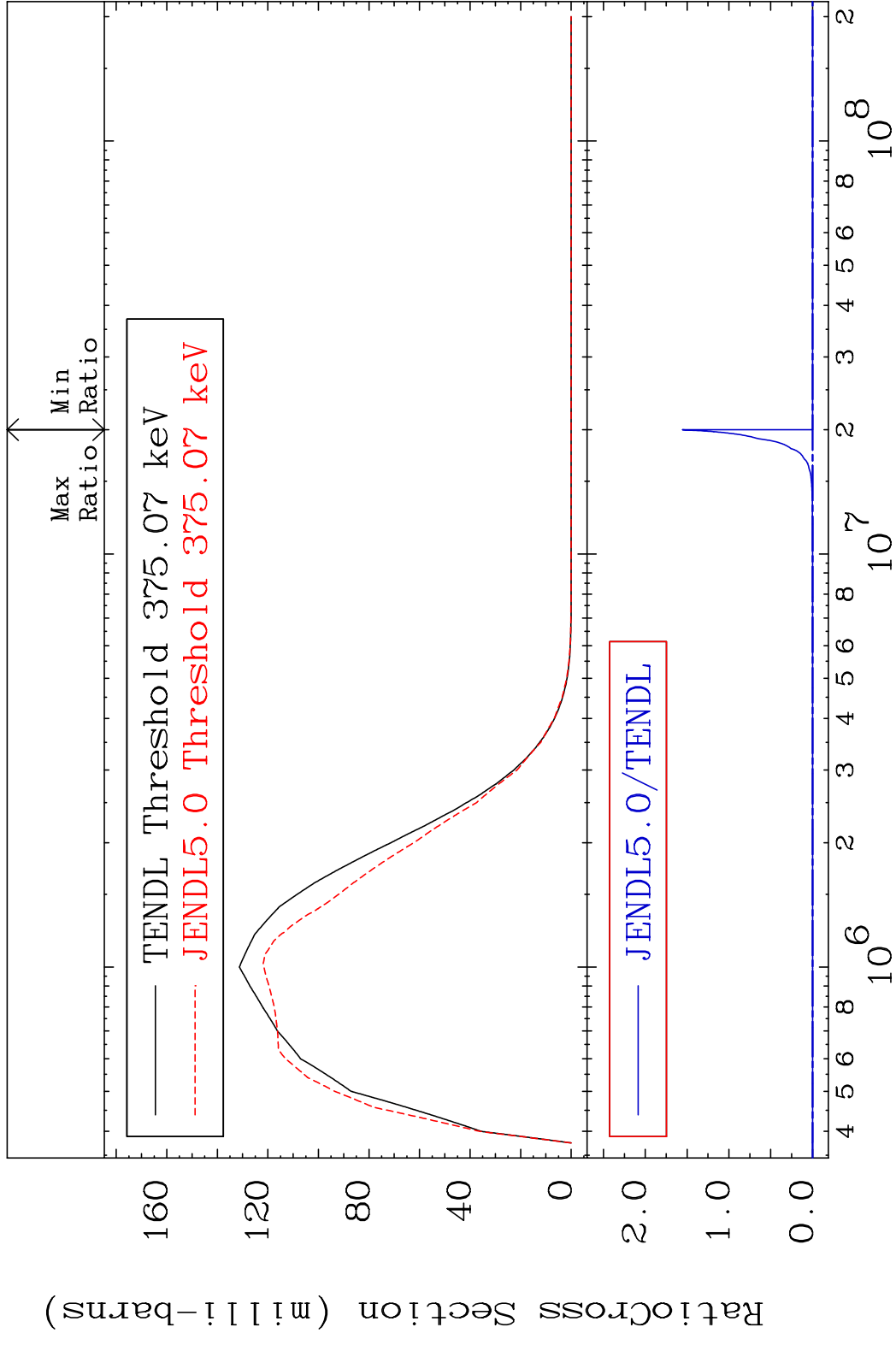
MAT 5319 MT= 52 (n,n') Level 53-I -125
 Cross Section -100.0 To 9999. %



MAT 5319 MT= 53 (n,n') Level 53-I -125
 Cross Section -100.0 To 9999. %

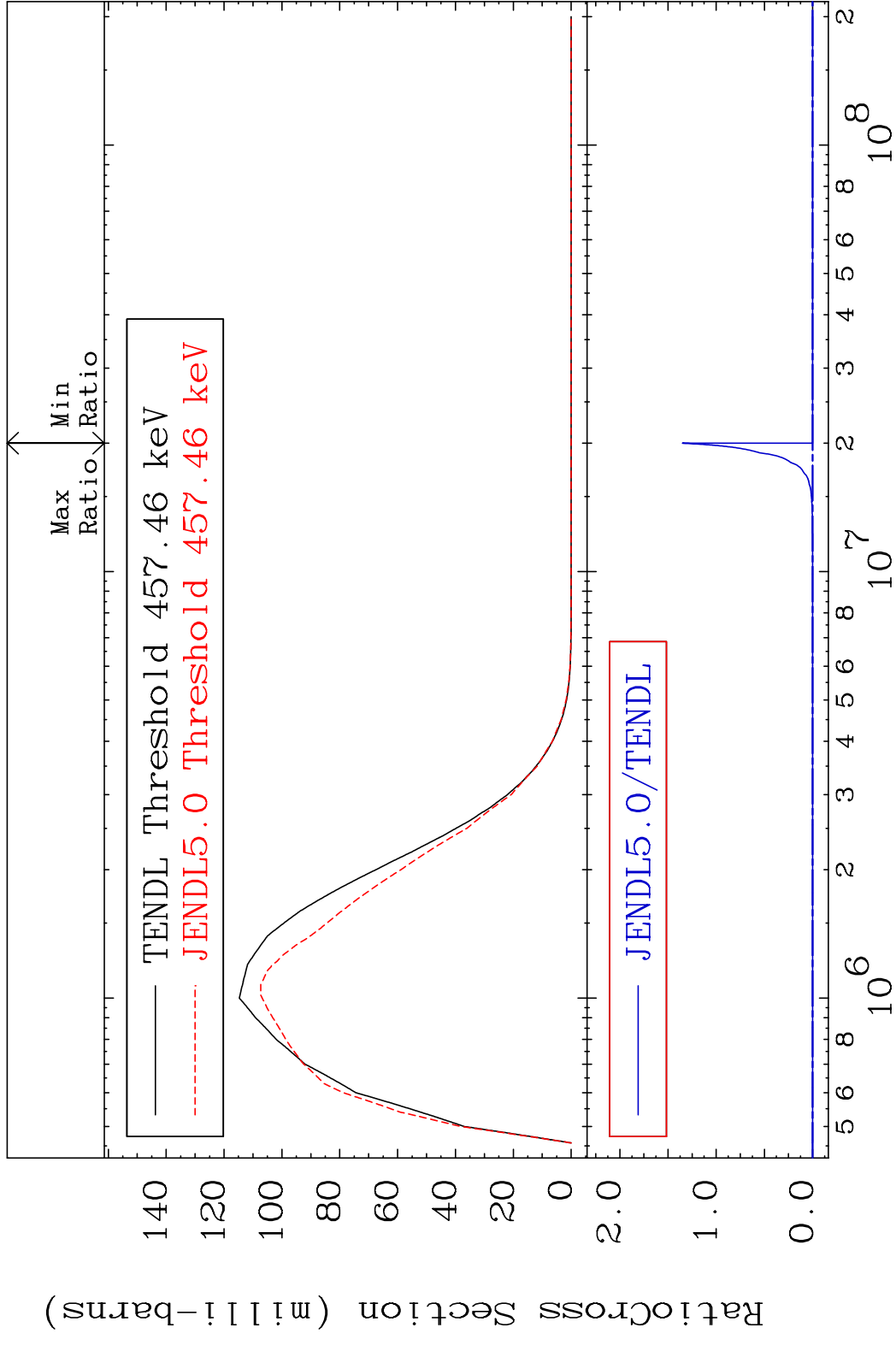


MAT 5319 MT= 54 (n,n') Level 53-I -125
 Cross Section -100.0 To 9999. %

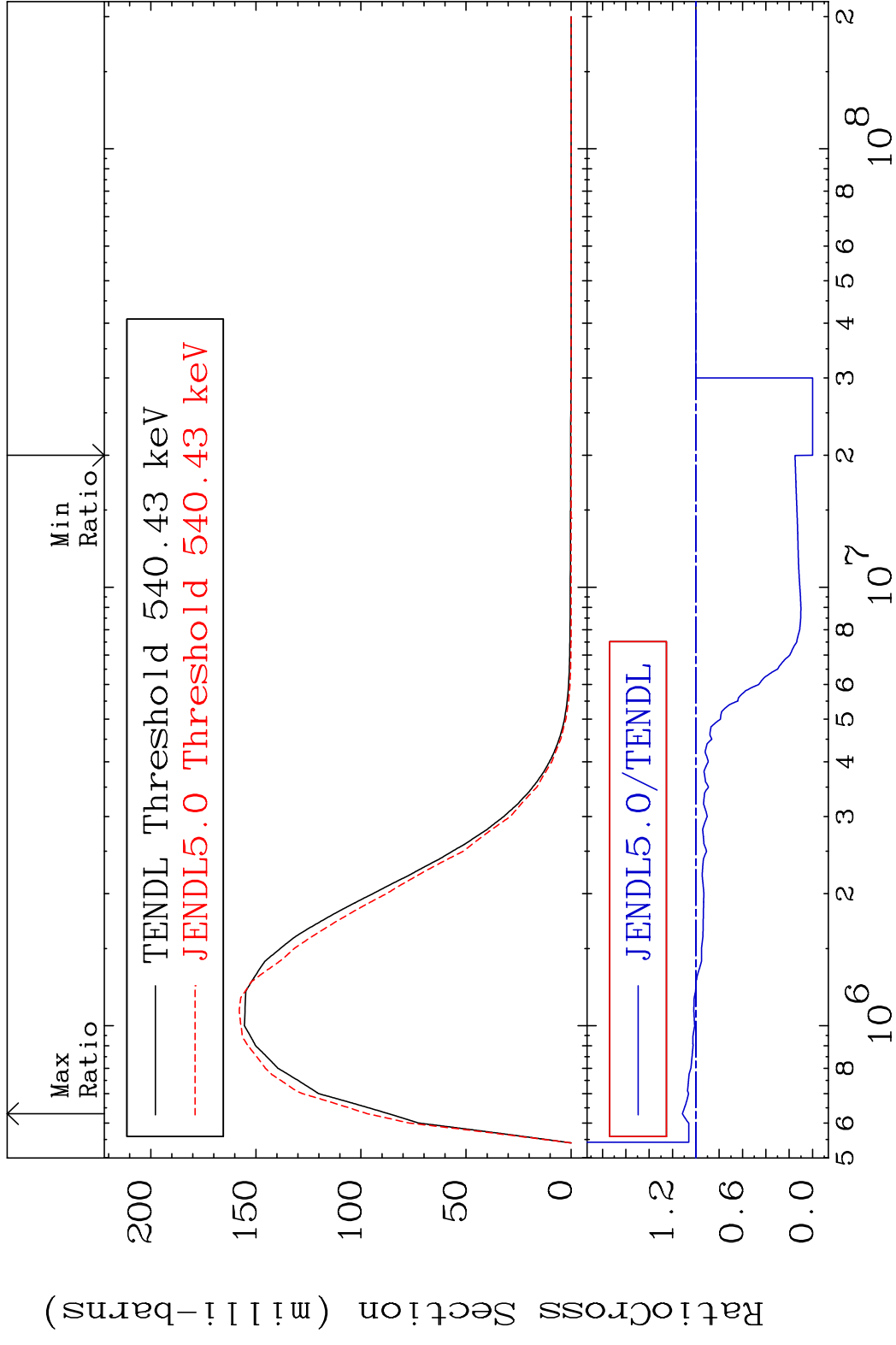


15 Incident Energy (eV) 53-I -125

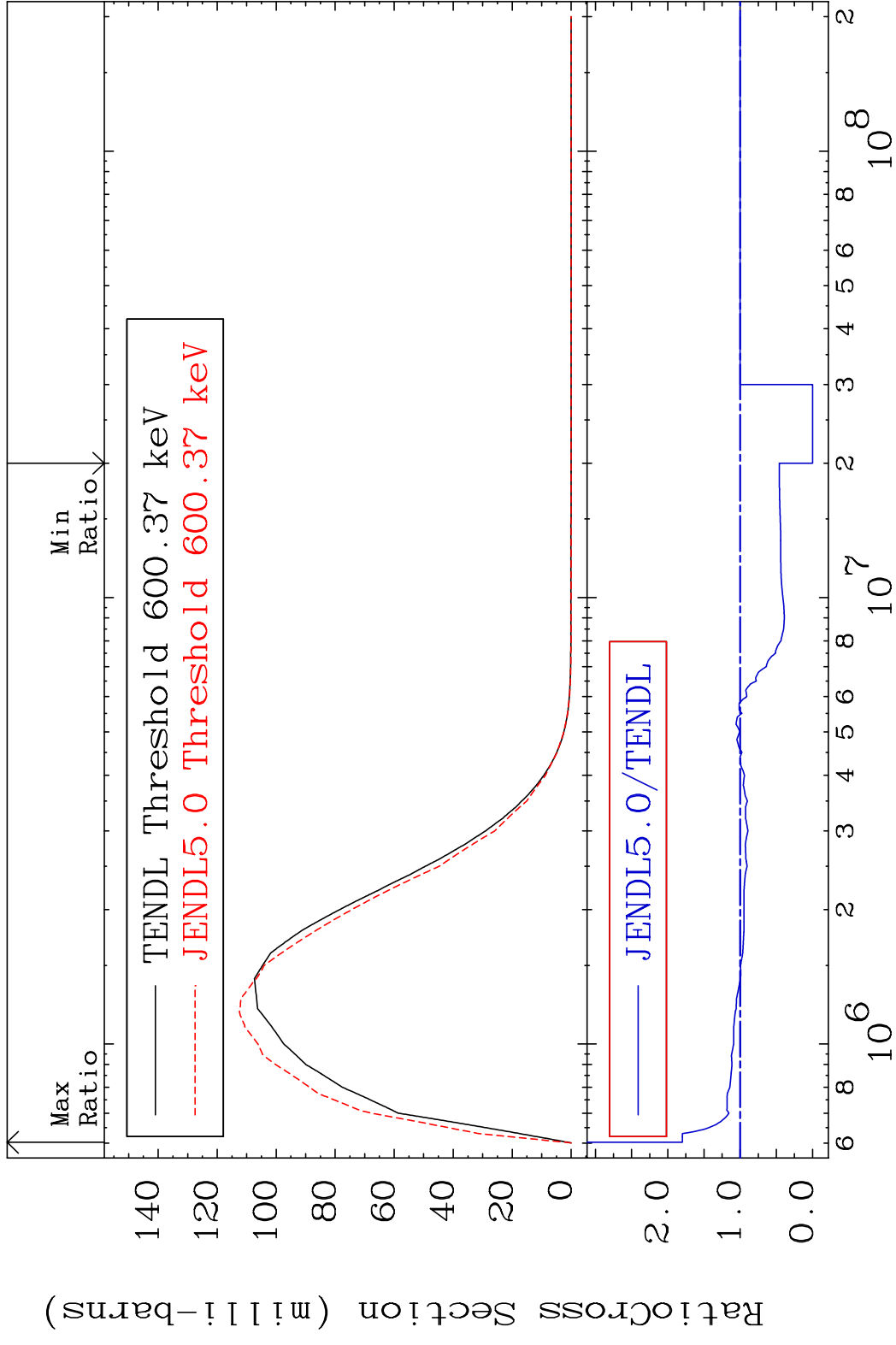
MAT 5319 MT= 55 (n, n') Level 53-I -125
 Cross Section -100.0 To 9999. %



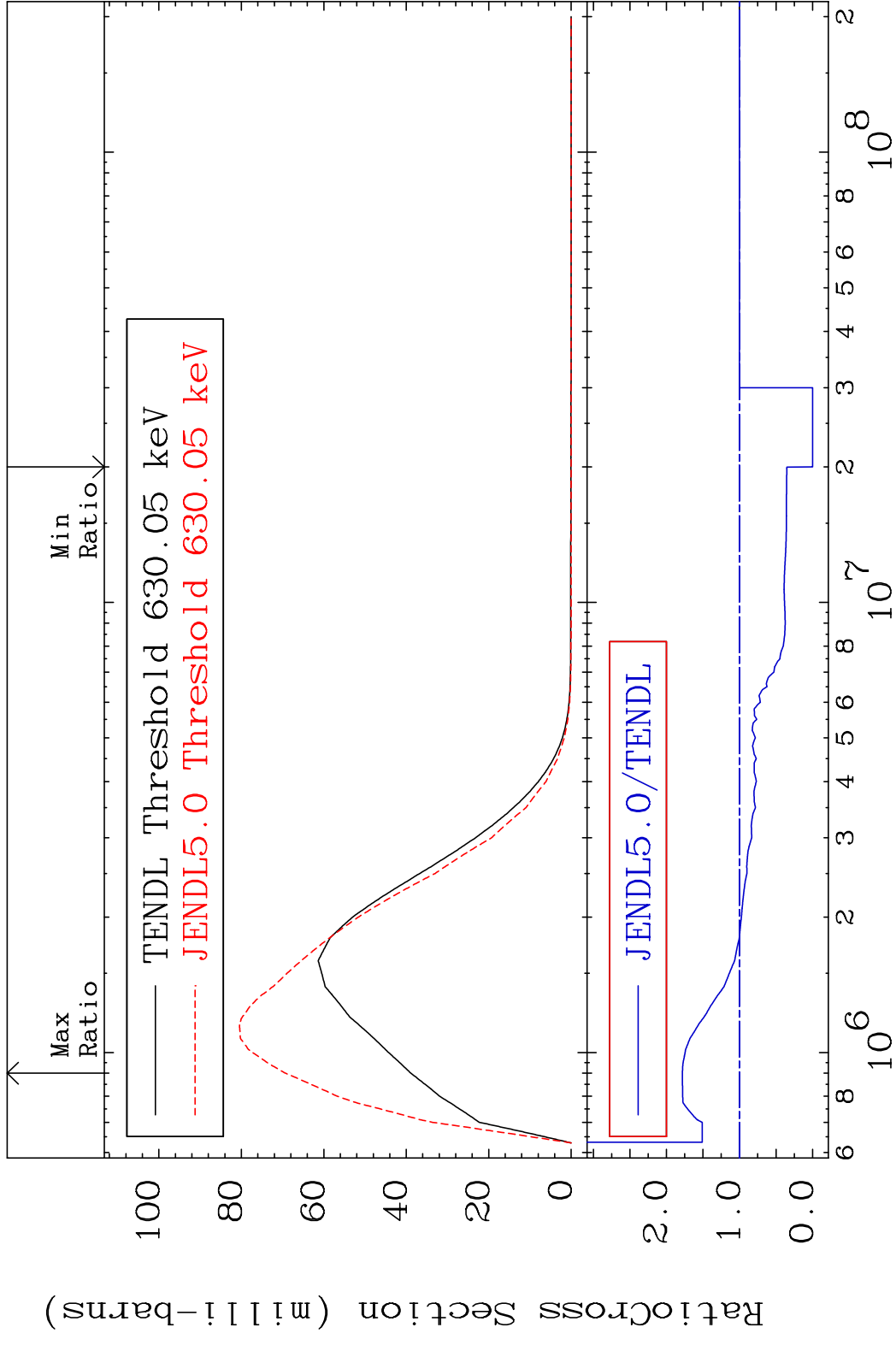
MAT 5319 MT= 56 (n, n') Level 53-I -125
 Cross Section -100.0 To 11.59 %



MAT 5319 MT= 57 (n, n') Level 53-I -125
 Cross Section -100.0 To 79.91 %

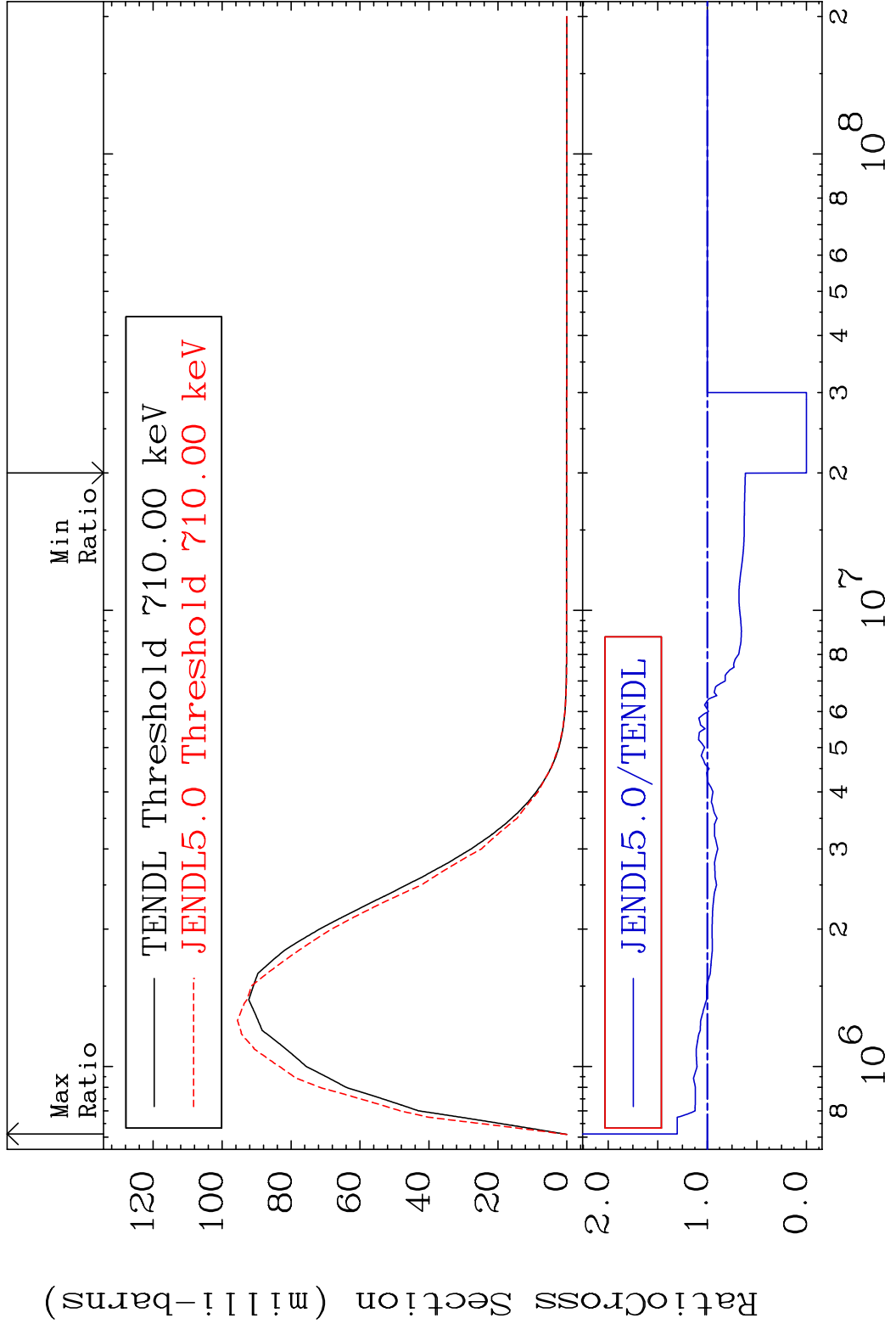


MAT 5319 MT= 58 (n, n') Level 53-I -125
 Cross Section -100.0 To 78.18 %



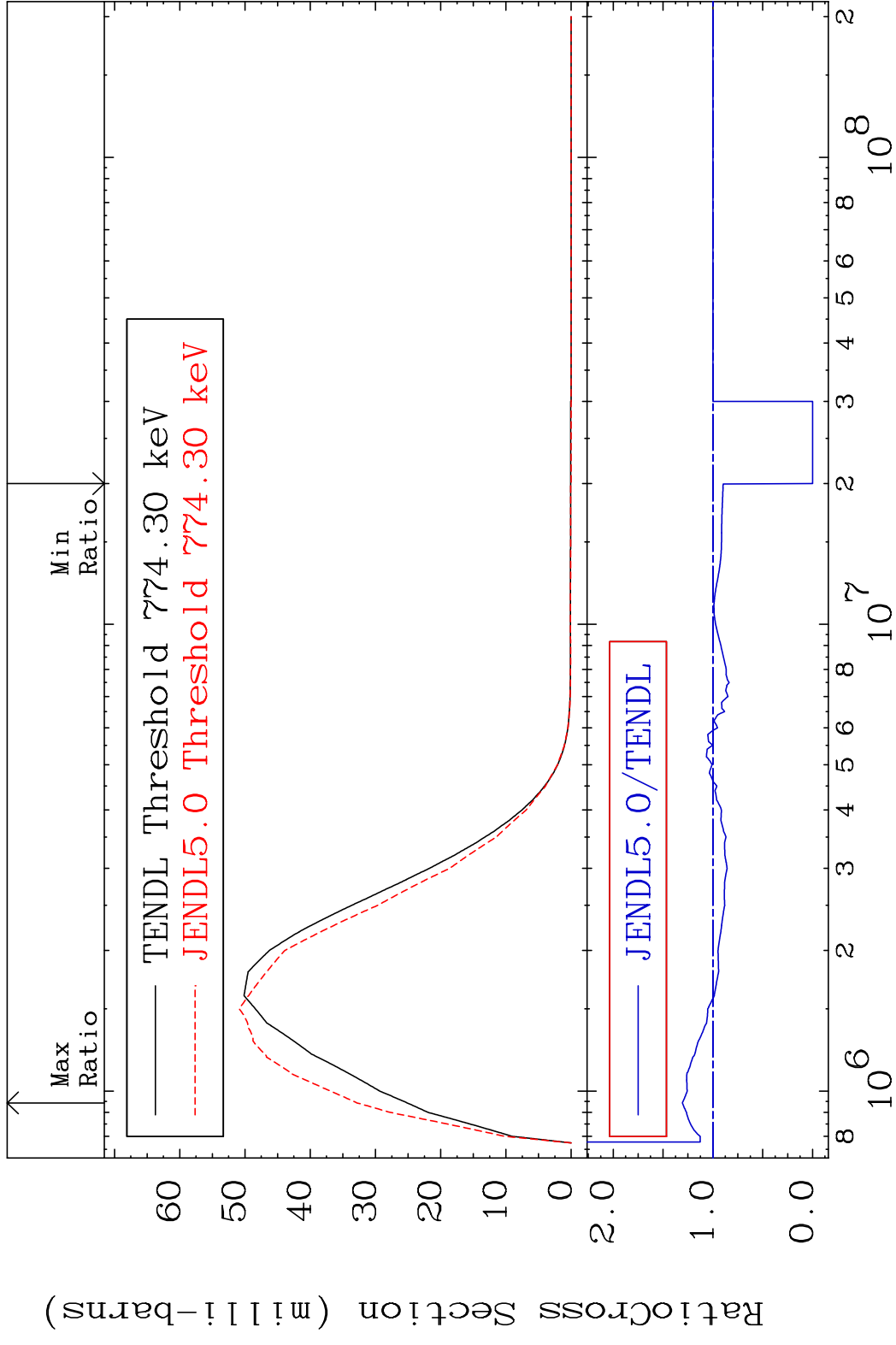
19 Incident Energy (eV) 53-I -125

MAT 5319 MT= 59 (n, n') Level 53-I -125
 Cross Section -100.0 To 30.32 %

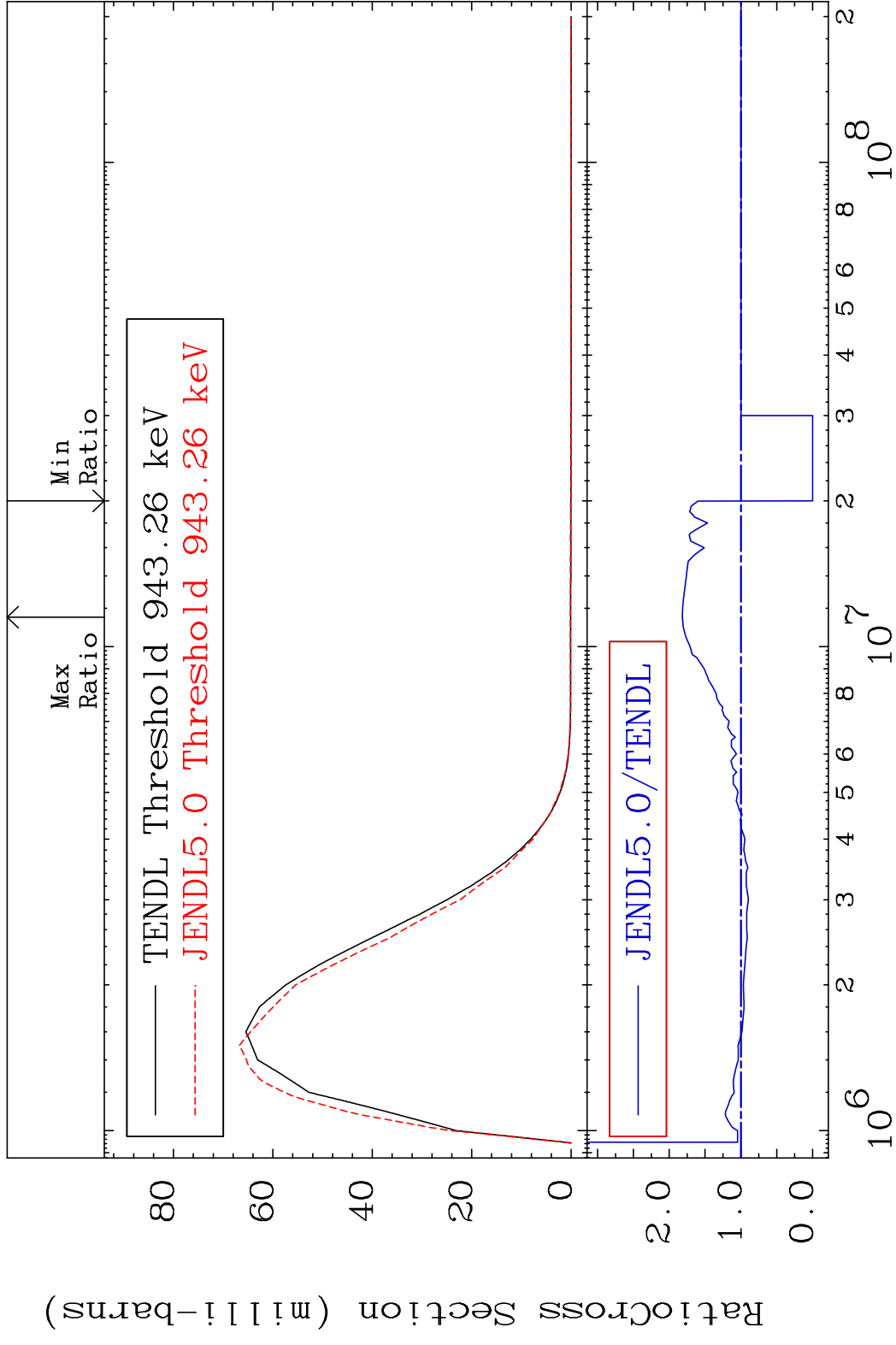


20 Incident Energy (eV) 53-I -125

MAT 5319 MT= 60 (n, n') Level 53-I -125
 Cross Section -100.0 To 30.62 %

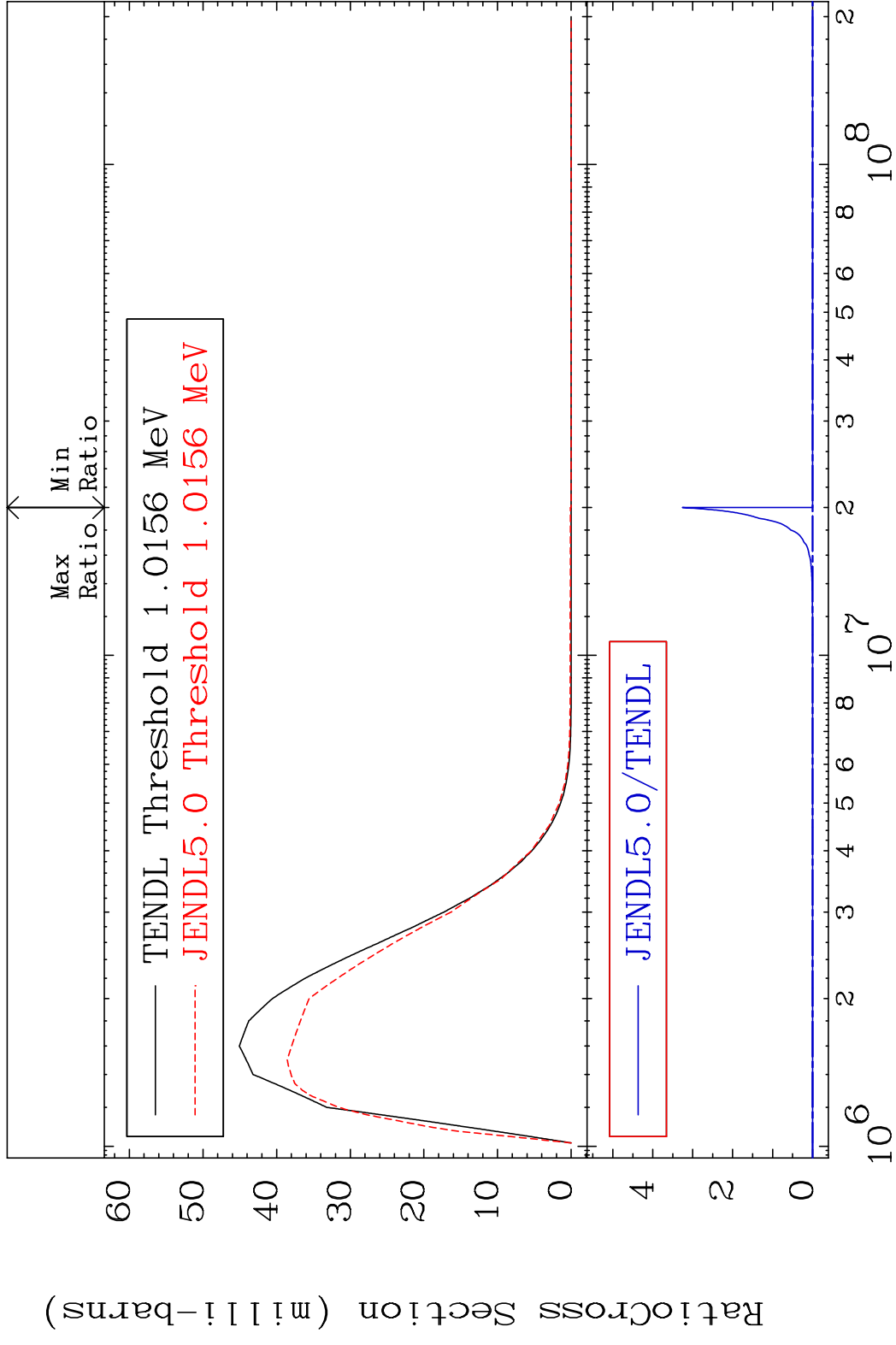


MAT 5319 MT= 61 (n, n') Level 53-I -125
 Cross Section -100.0 To 81.67 %

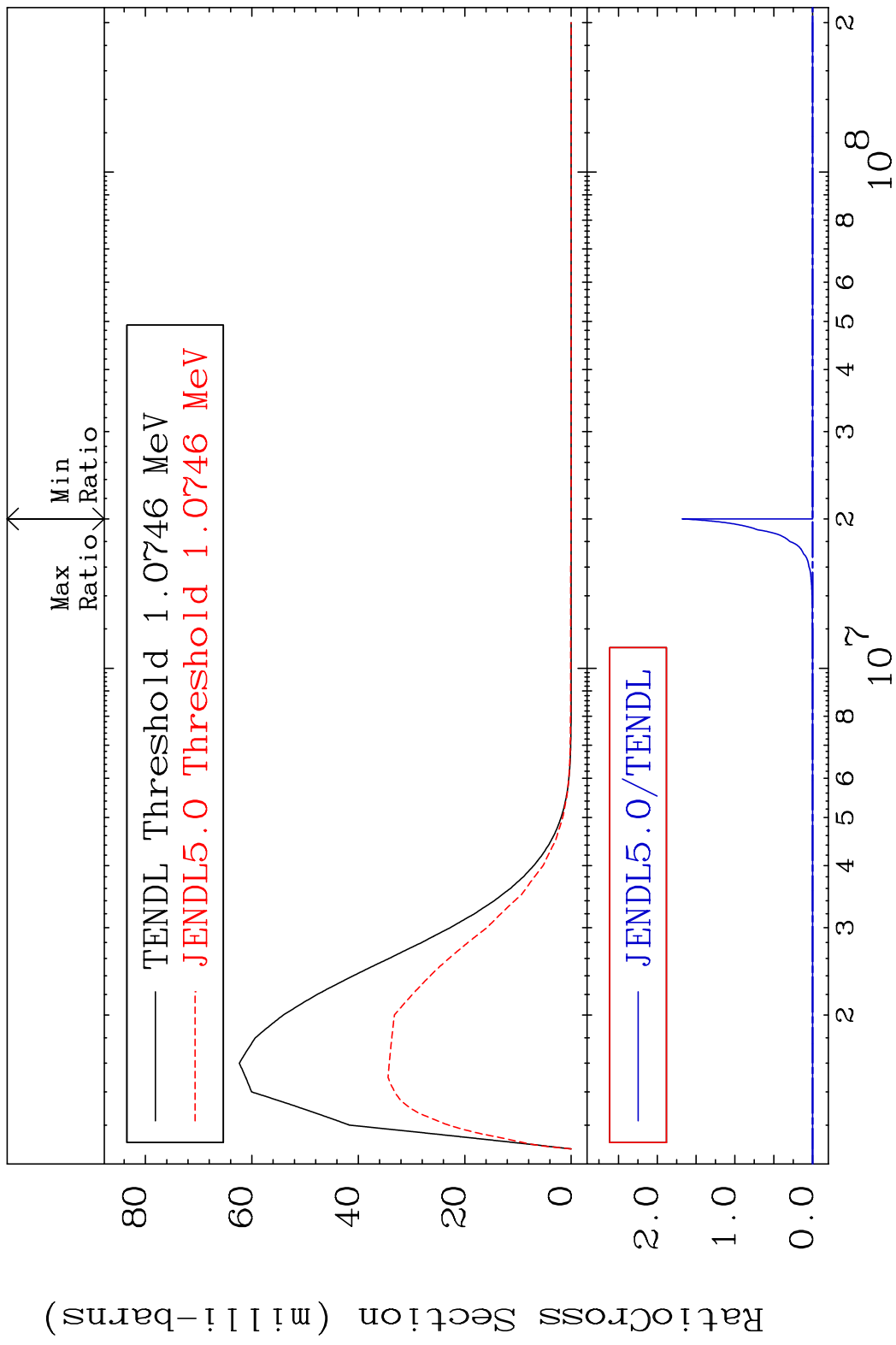


22 Incident Energy (eV) 53-I -125

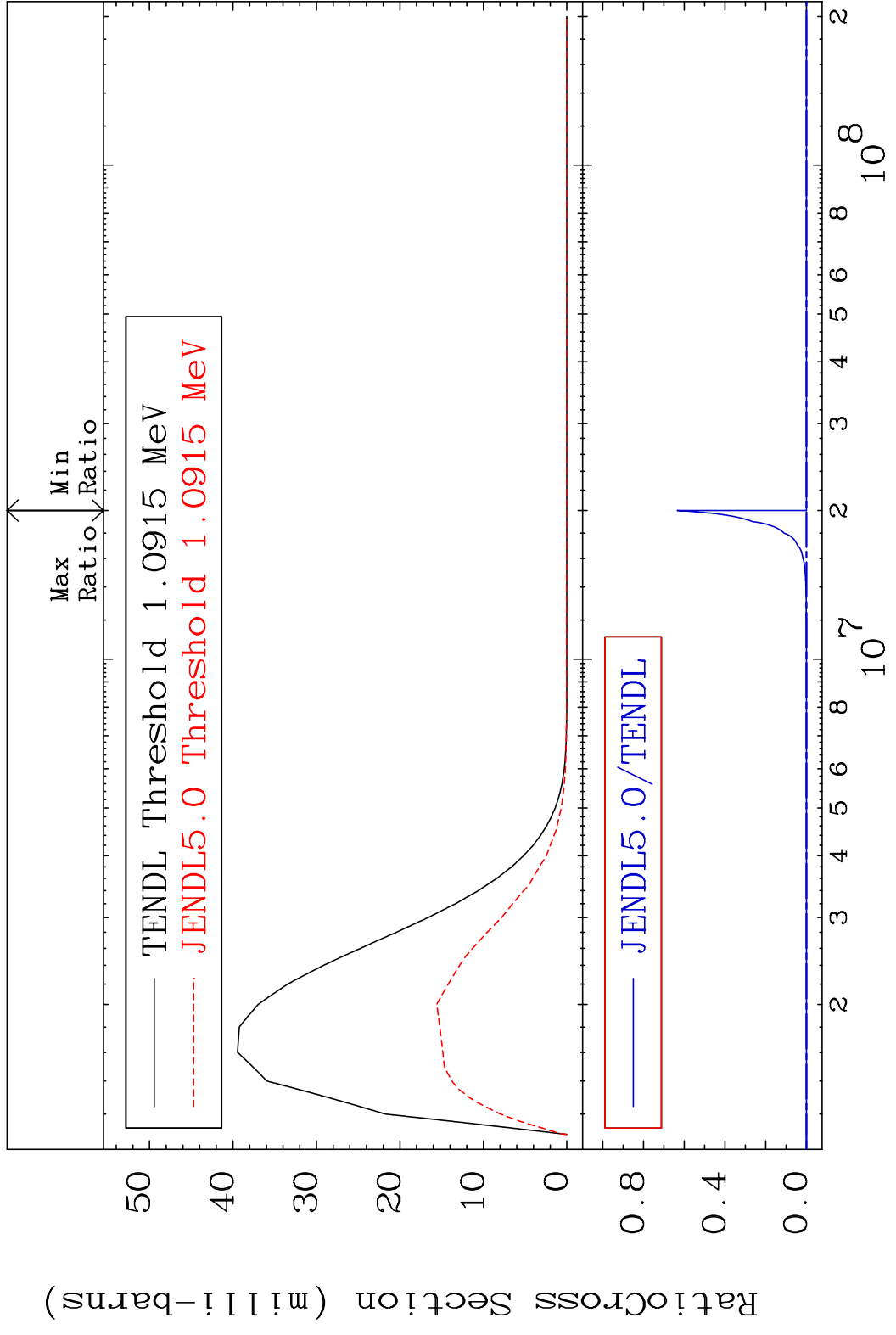
MAT 5319 MT= 62 (n, n') Level 53-I -125
 Cross Section -100.0 To 9999. %



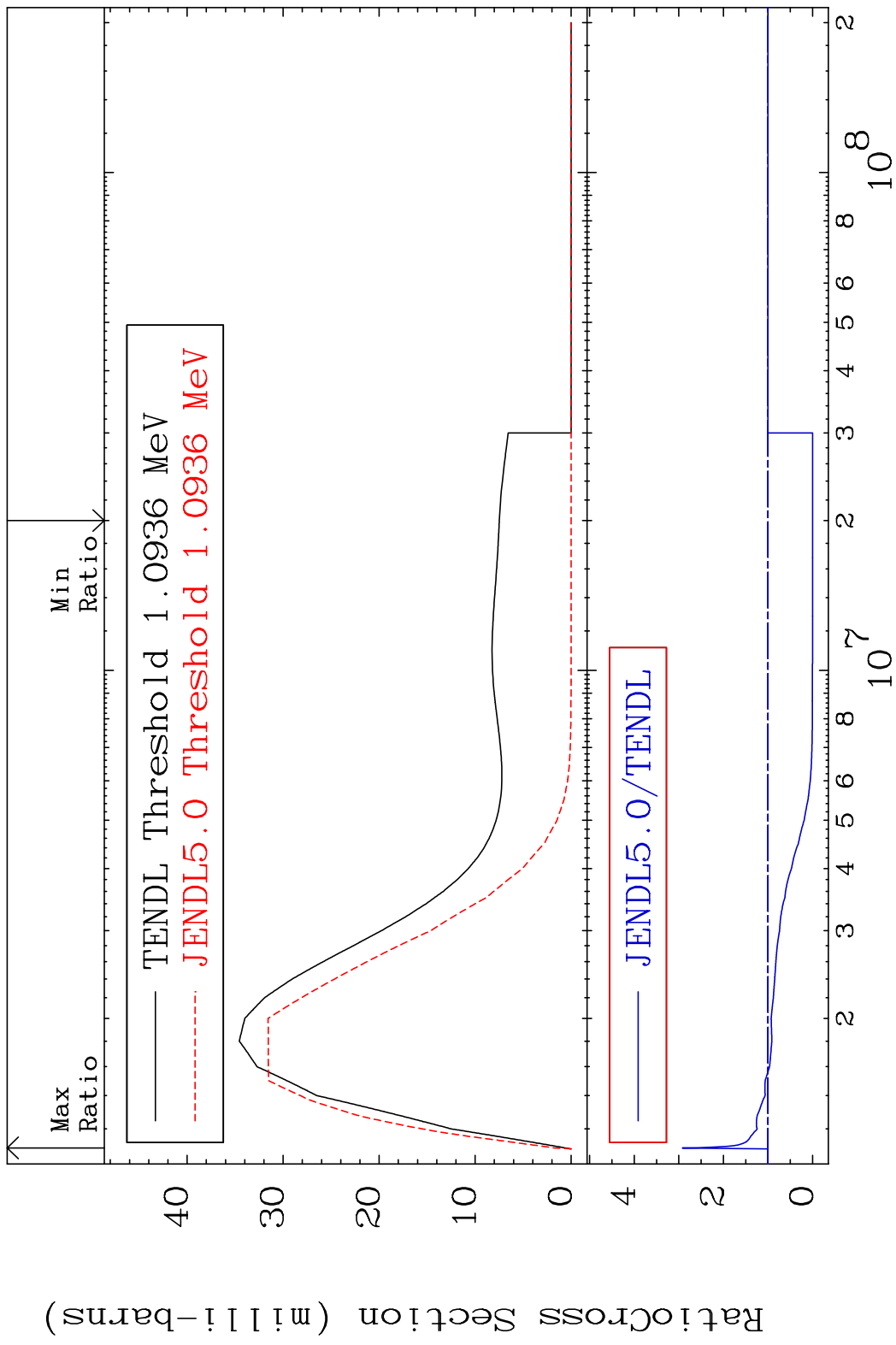
MAT 5319 MT= 63 (n, n') Level 53-I -125
 Cross Section -100.0 To 9999. %



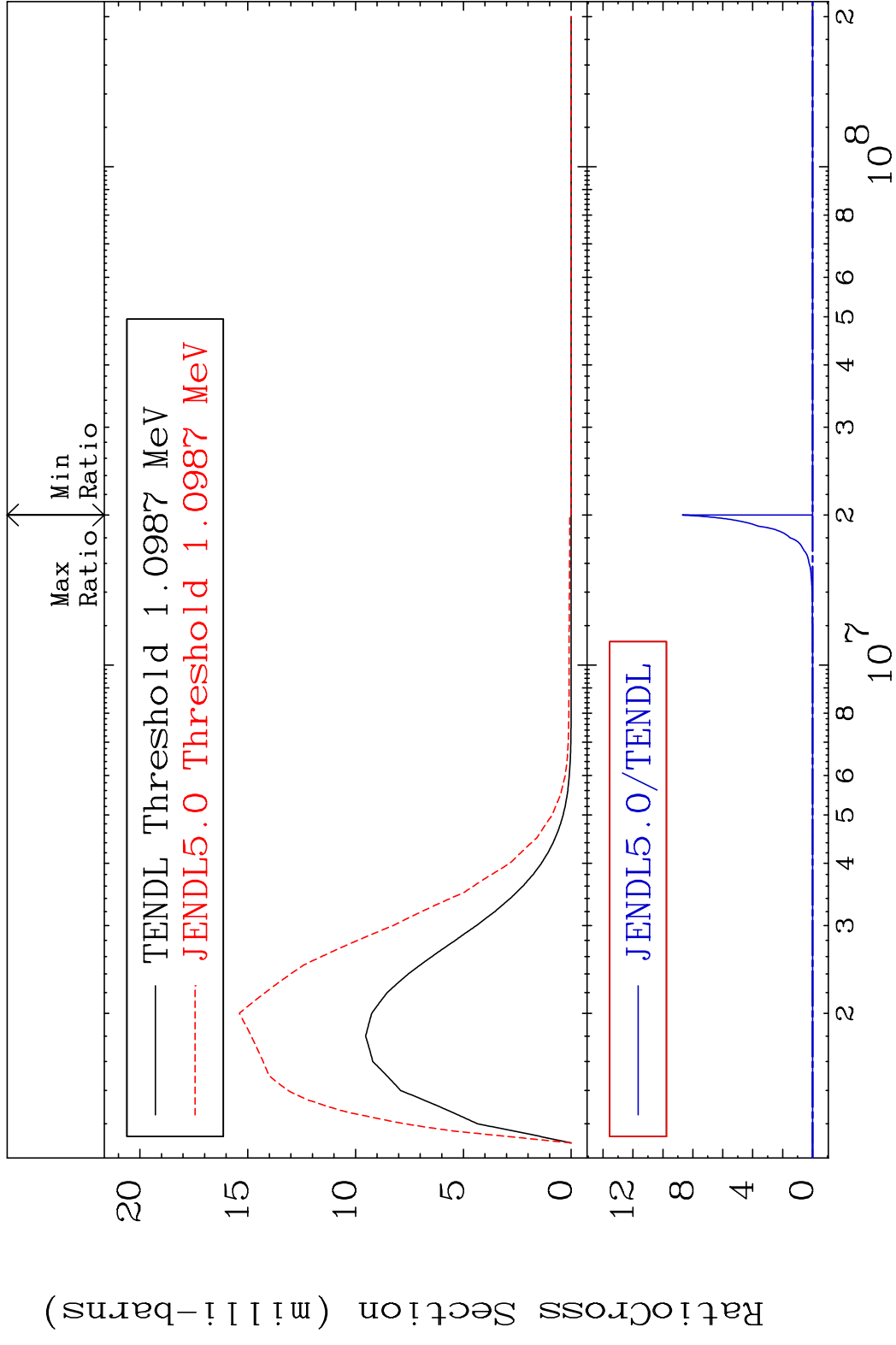
MAT 5319 MT= 64 (n, n') Level 53-I -125
 Cross Section -100.0 To 9999. %



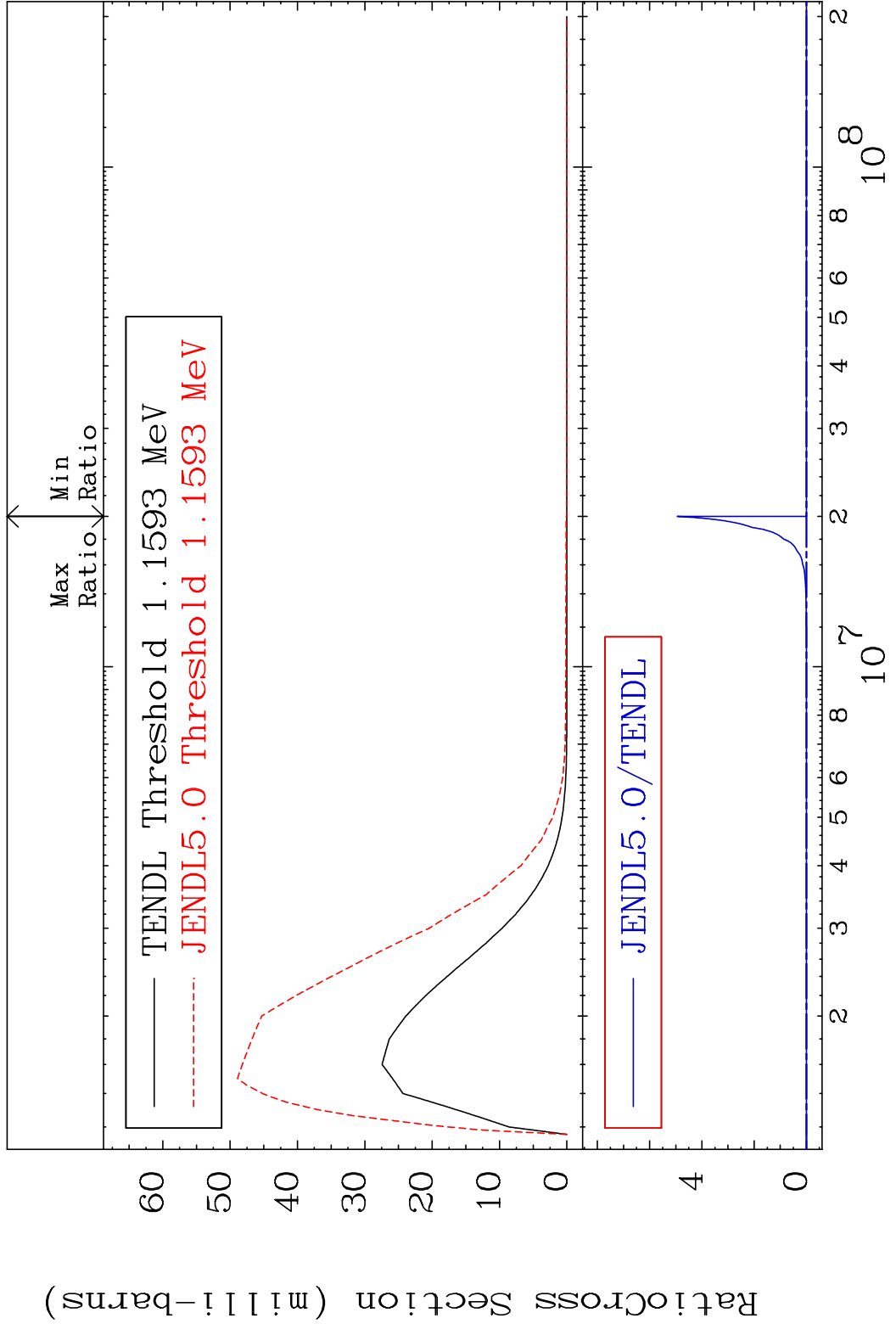
MAT 5319 MT= 65 (n, n') Level 53-I -125
 Cross Section -100.0 To 192.1 %



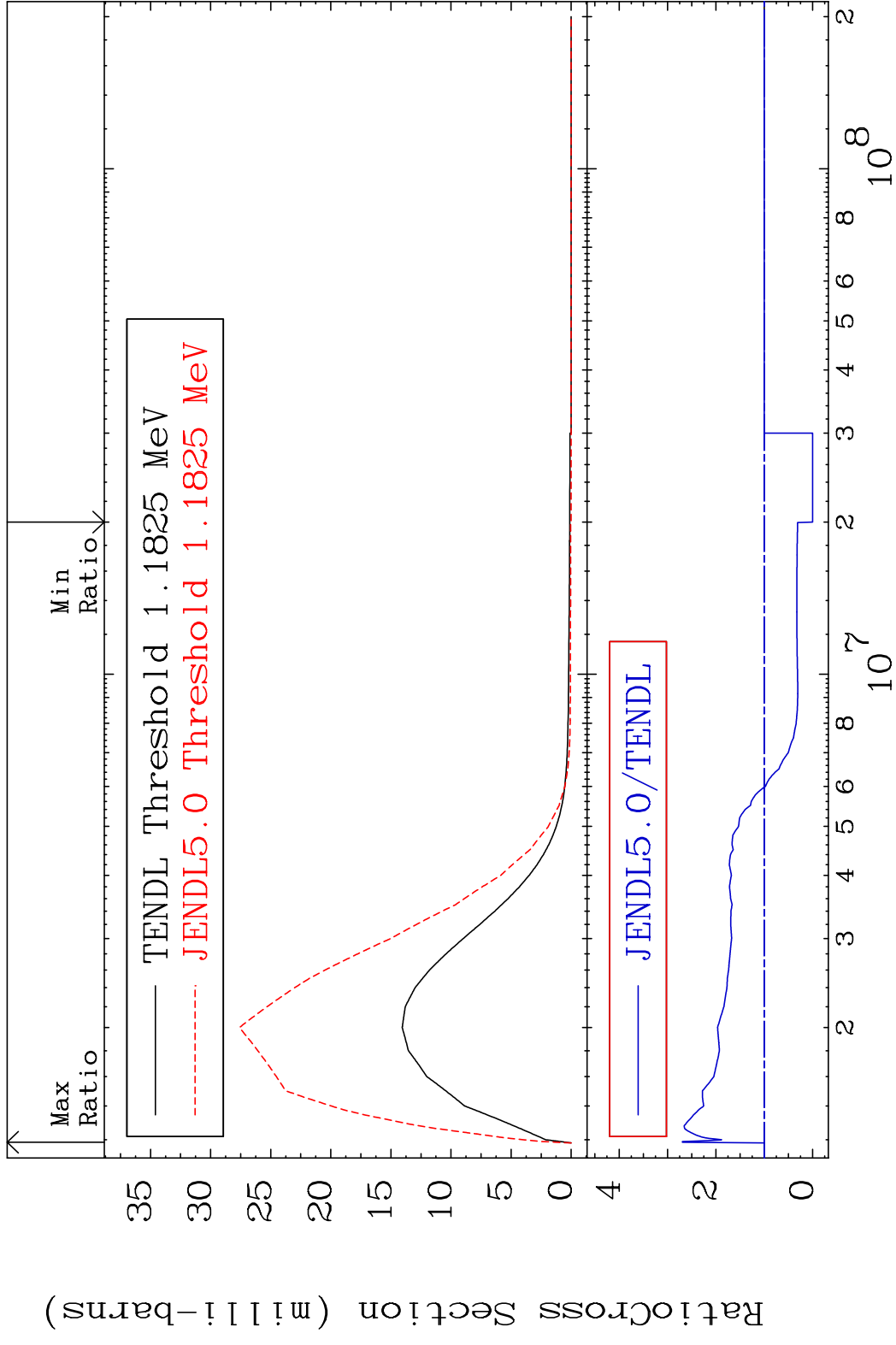
MAT 5319 MT= 66 (n, n') Level 53-I -125
 Cross Section -100.0 To 9999. %



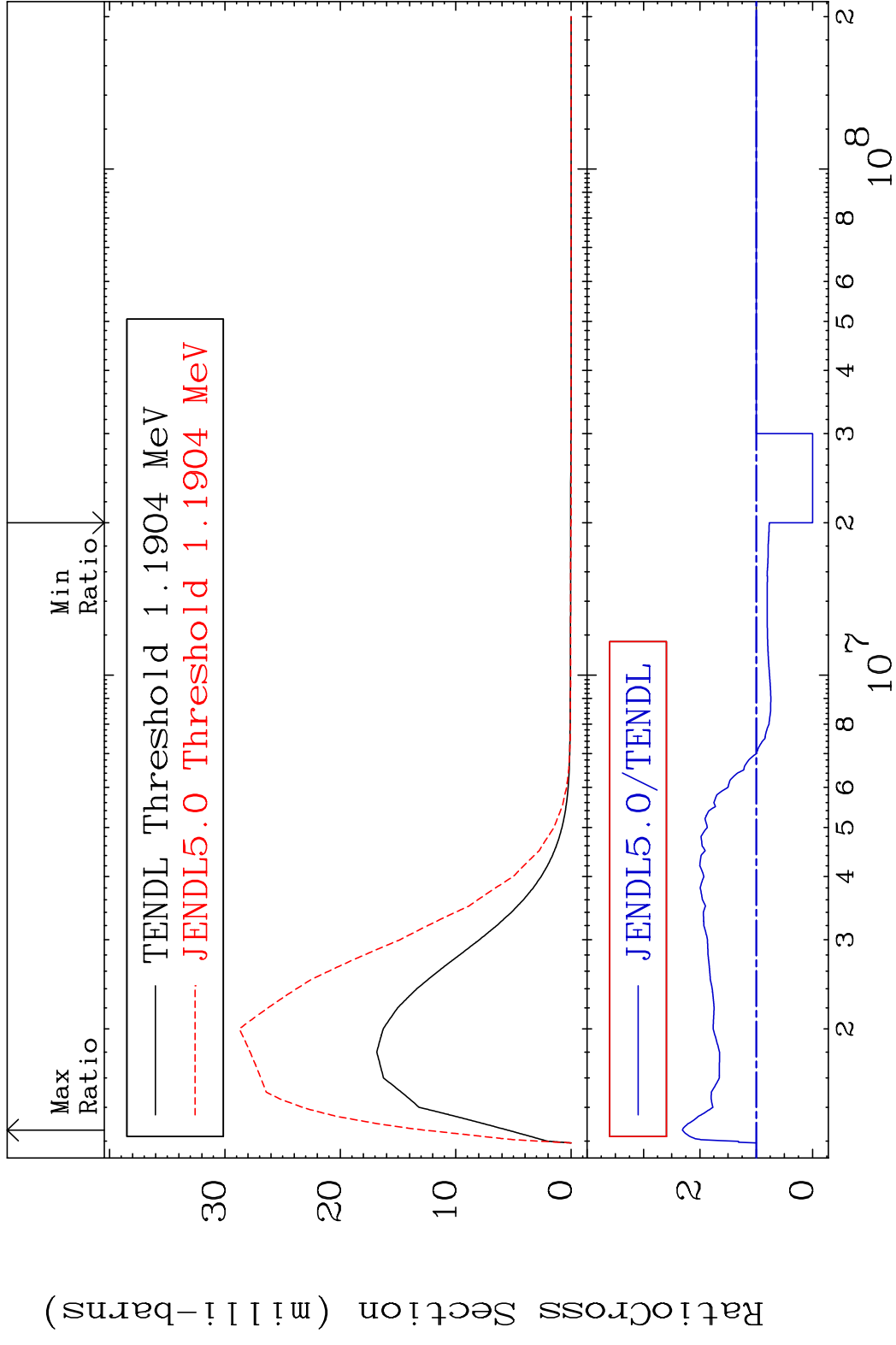
MAT 5319 MT= 67 (n, n') Level 53-I -125
 Cross Section -100.0 To 9999. %



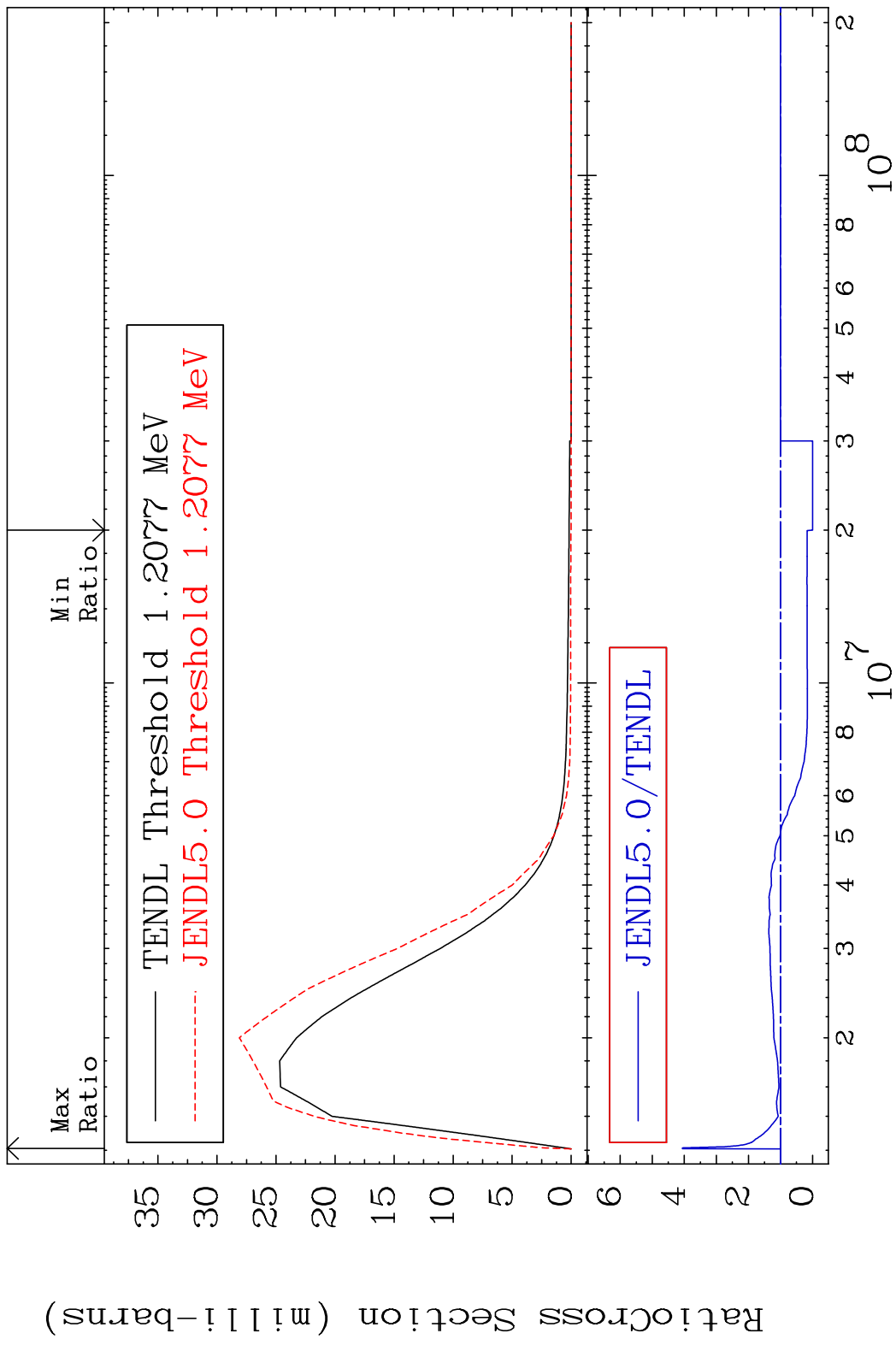
MAT 5319 MT= 68 (n, n') Level 53-I -125
 Cross Section -100.0 To 169.2 %



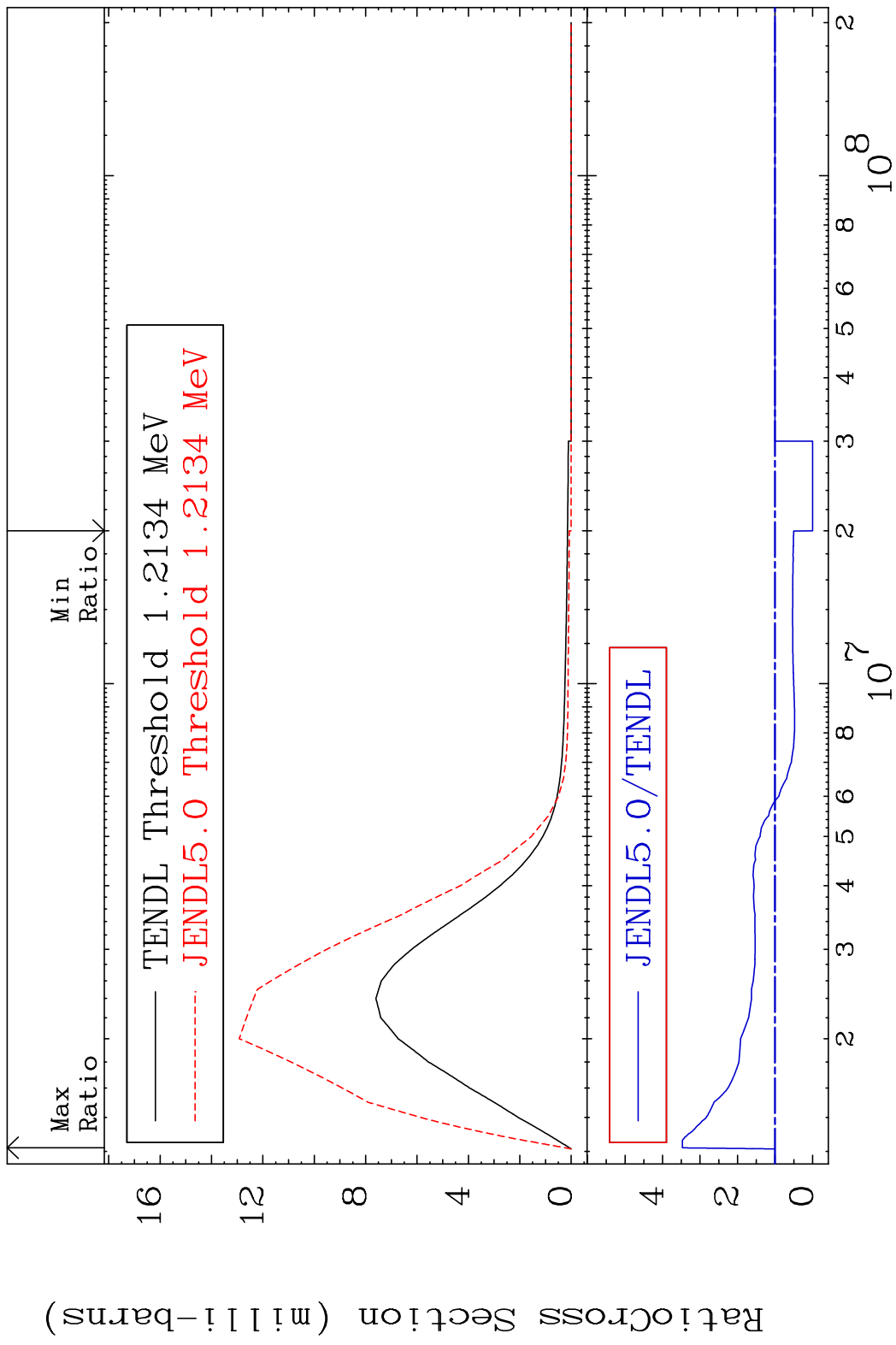
MAT 5319 MT= 69 (n, n') Level 53-I -125
 Cross Section -100.0 To 131.1 %



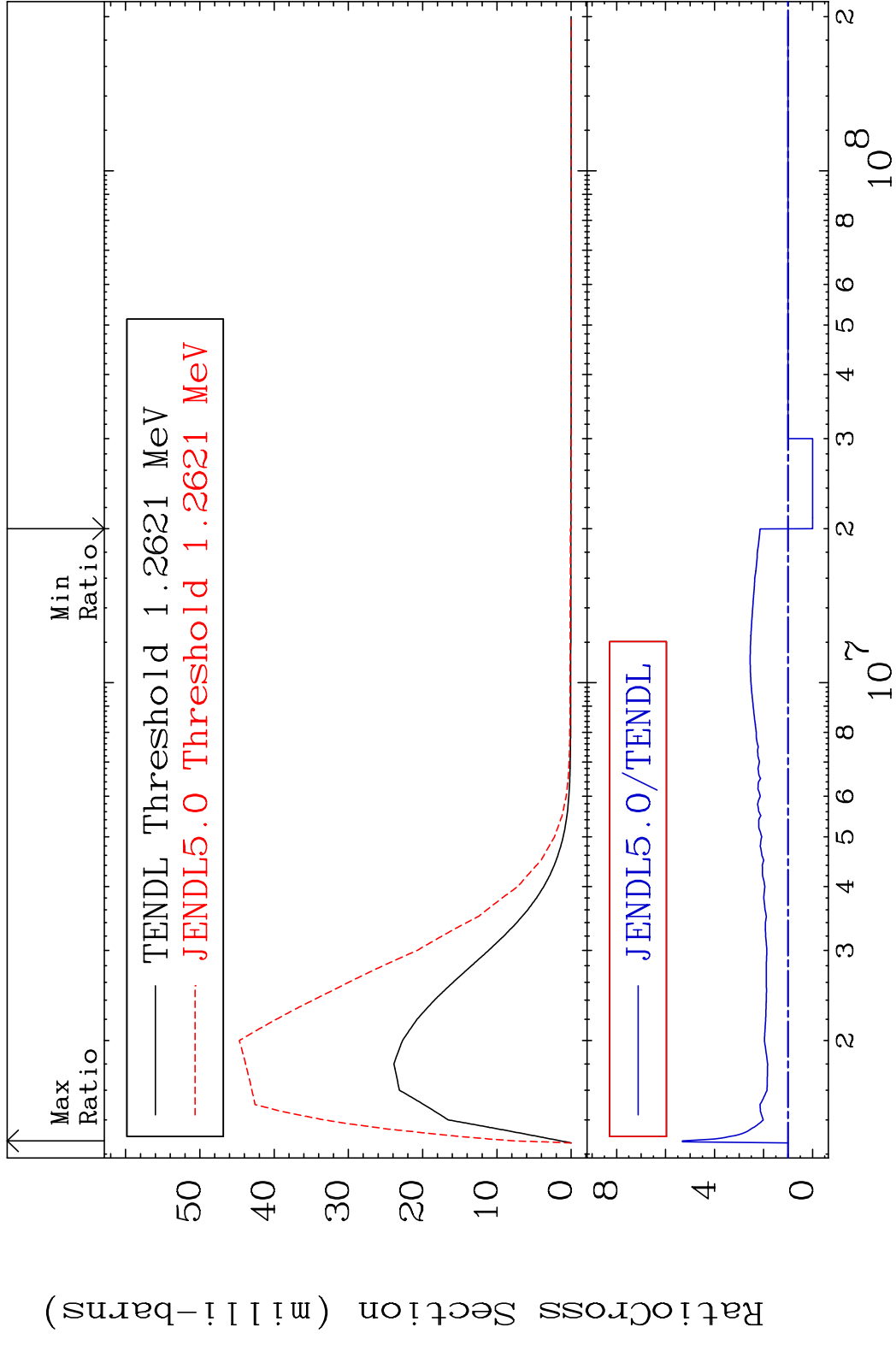
MAT 5319 MT= 70 (n, n') Level 53-I -125
 Cross Section -100.0 To 306.1 %



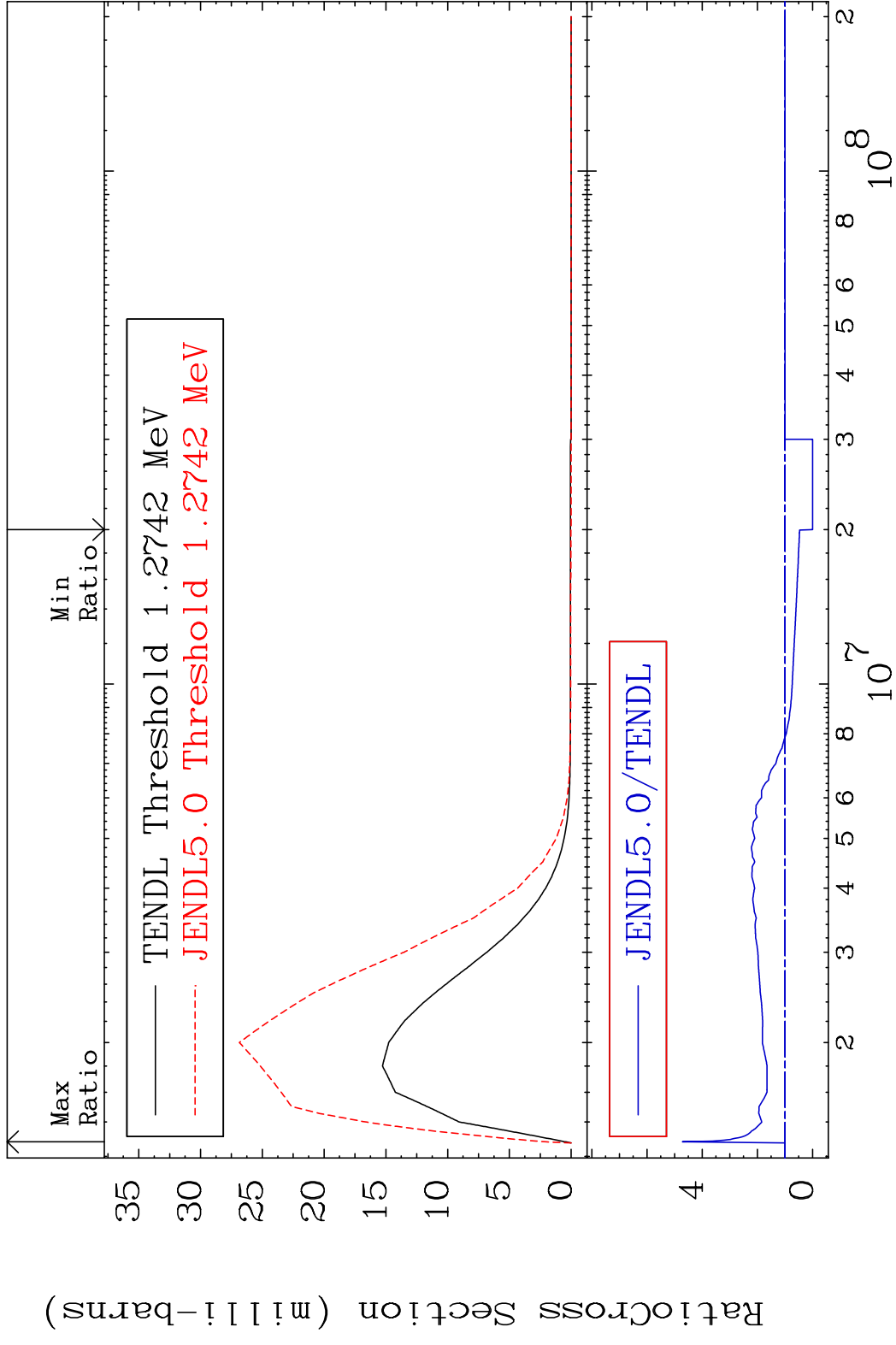
MAT 5319 MT= 71 (n, n') Level 53-I -125
 Cross Section -100.0 To 247.2 %



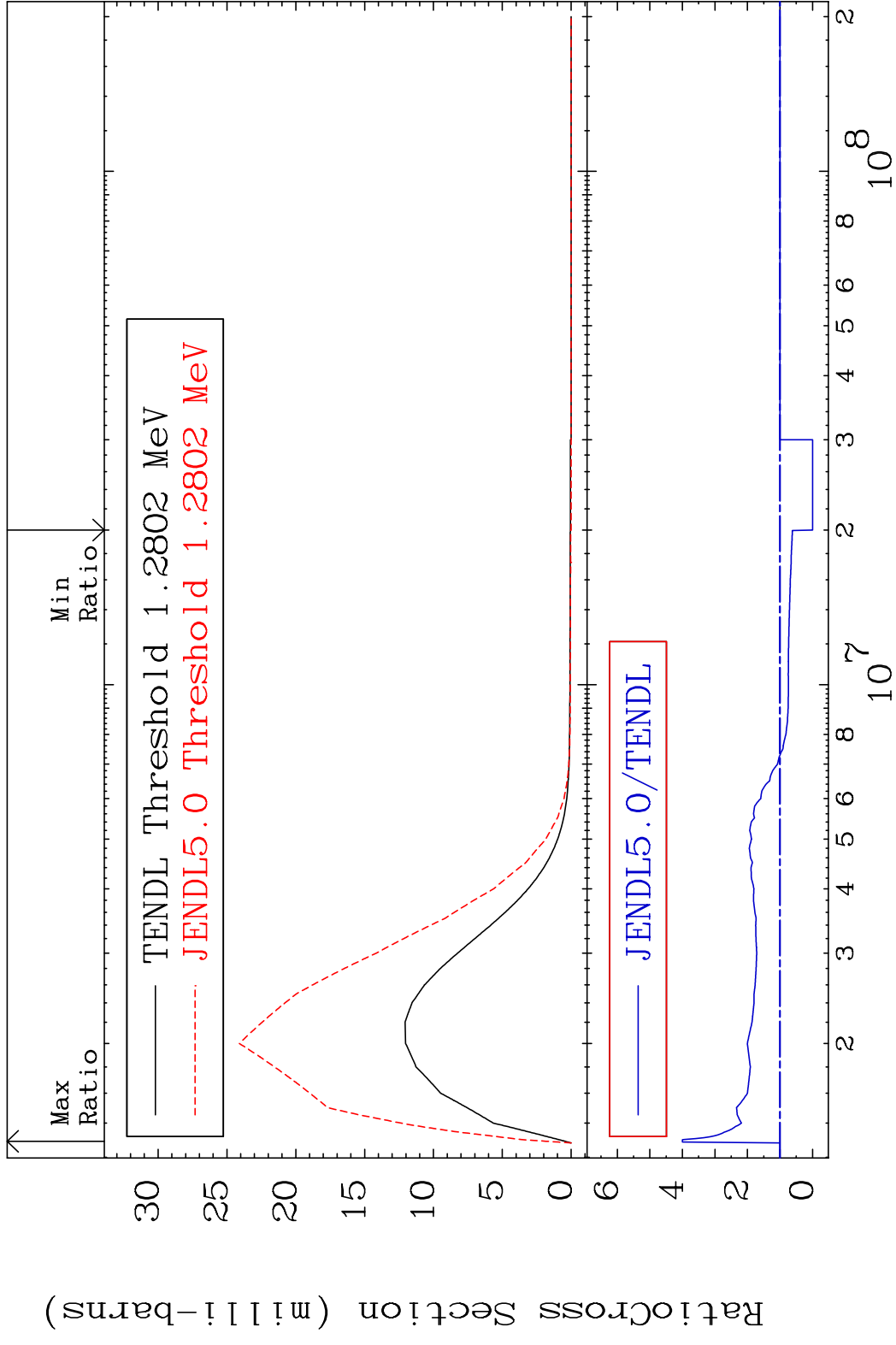
MAT 5319 MT= 72 (n, n') Level 53-I -125
 Cross Section -100.0 To 431.6 %



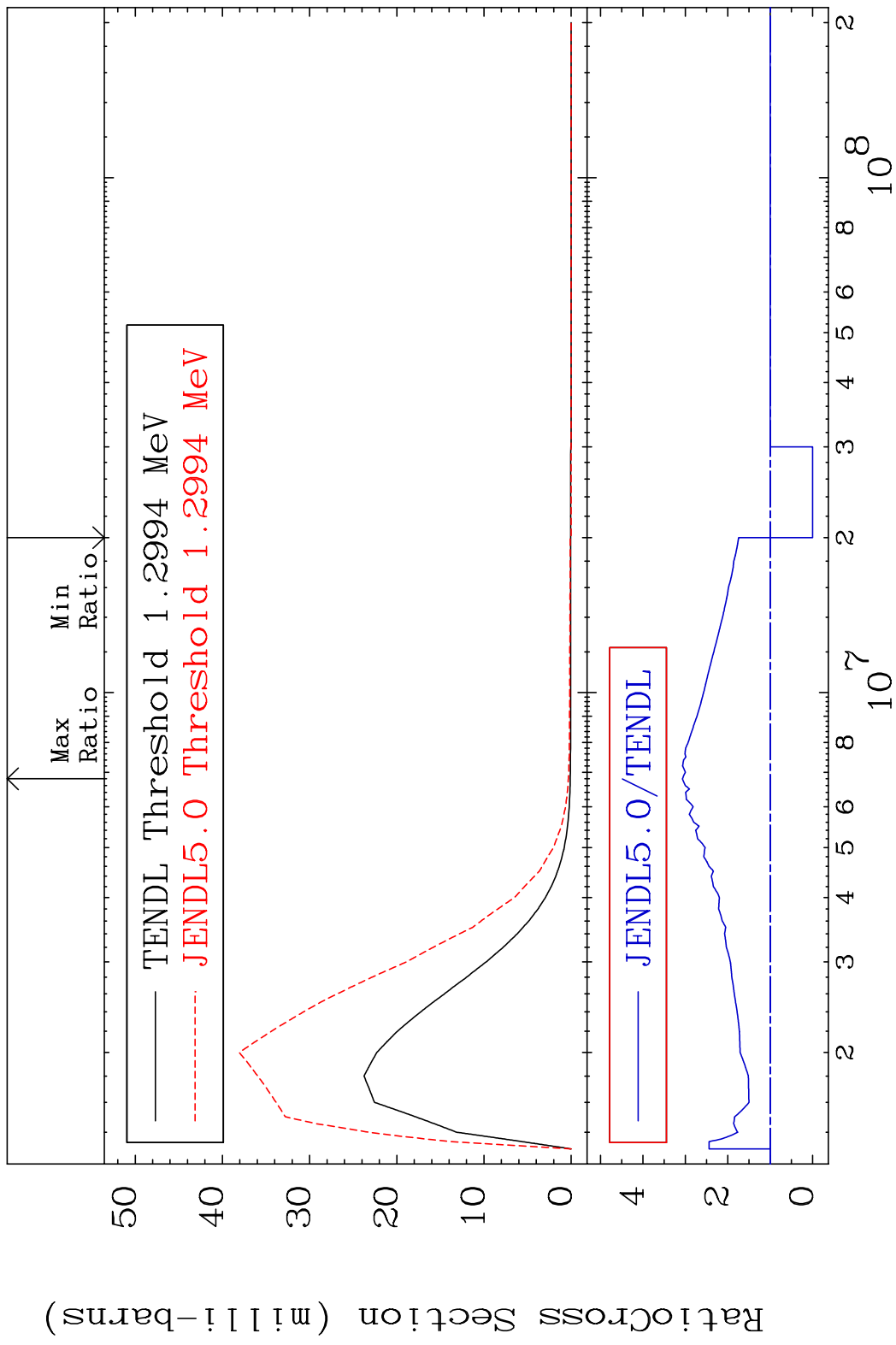
MAT 5319 MT= 73 (n, n') Level 53-I -125
 Cross Section -100.0 To 371.8 %



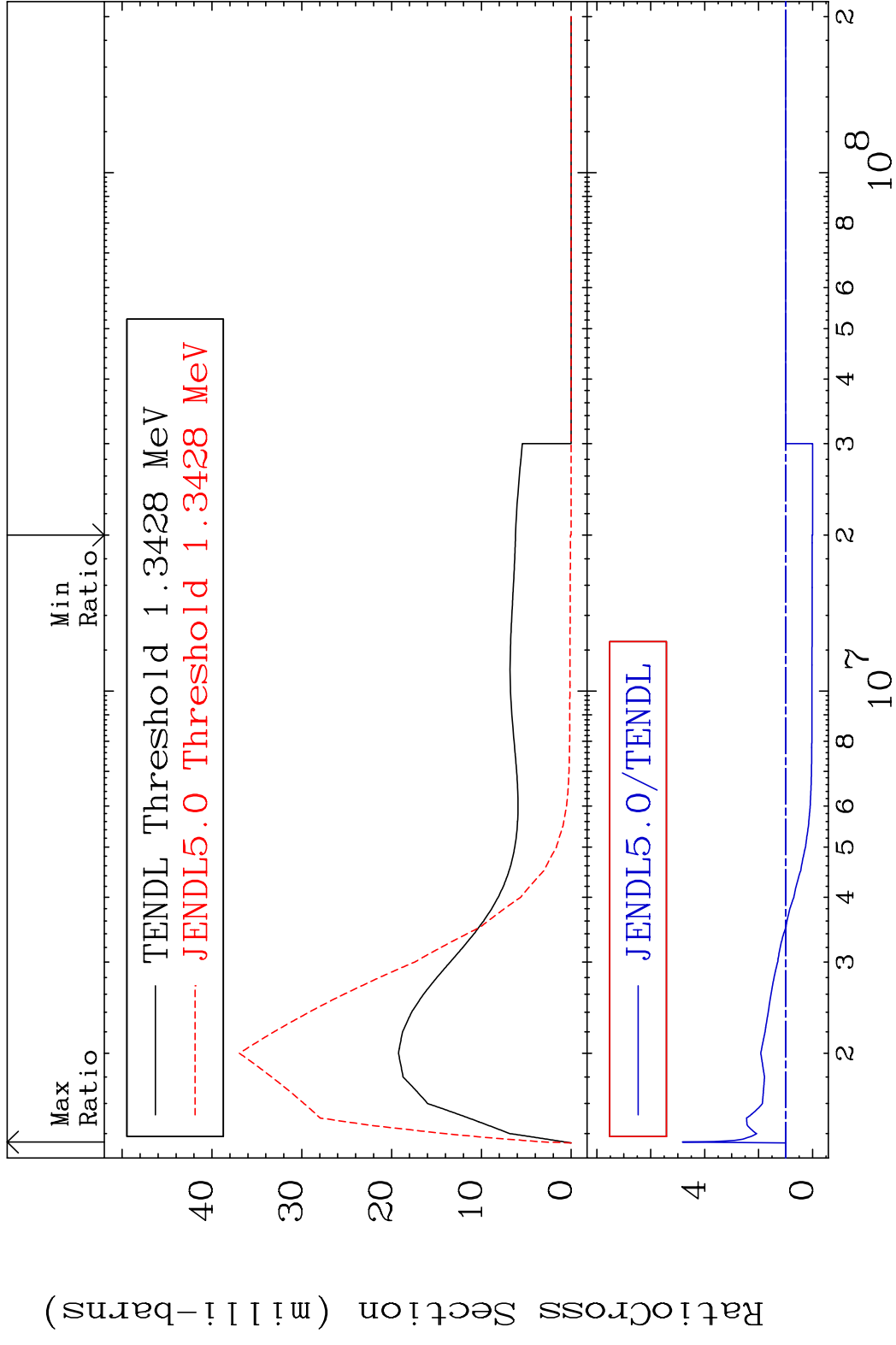
MAT 5319 MT= 74 (n, n') Level 53-I -125
 Cross Section -100.0 To 300.1 %



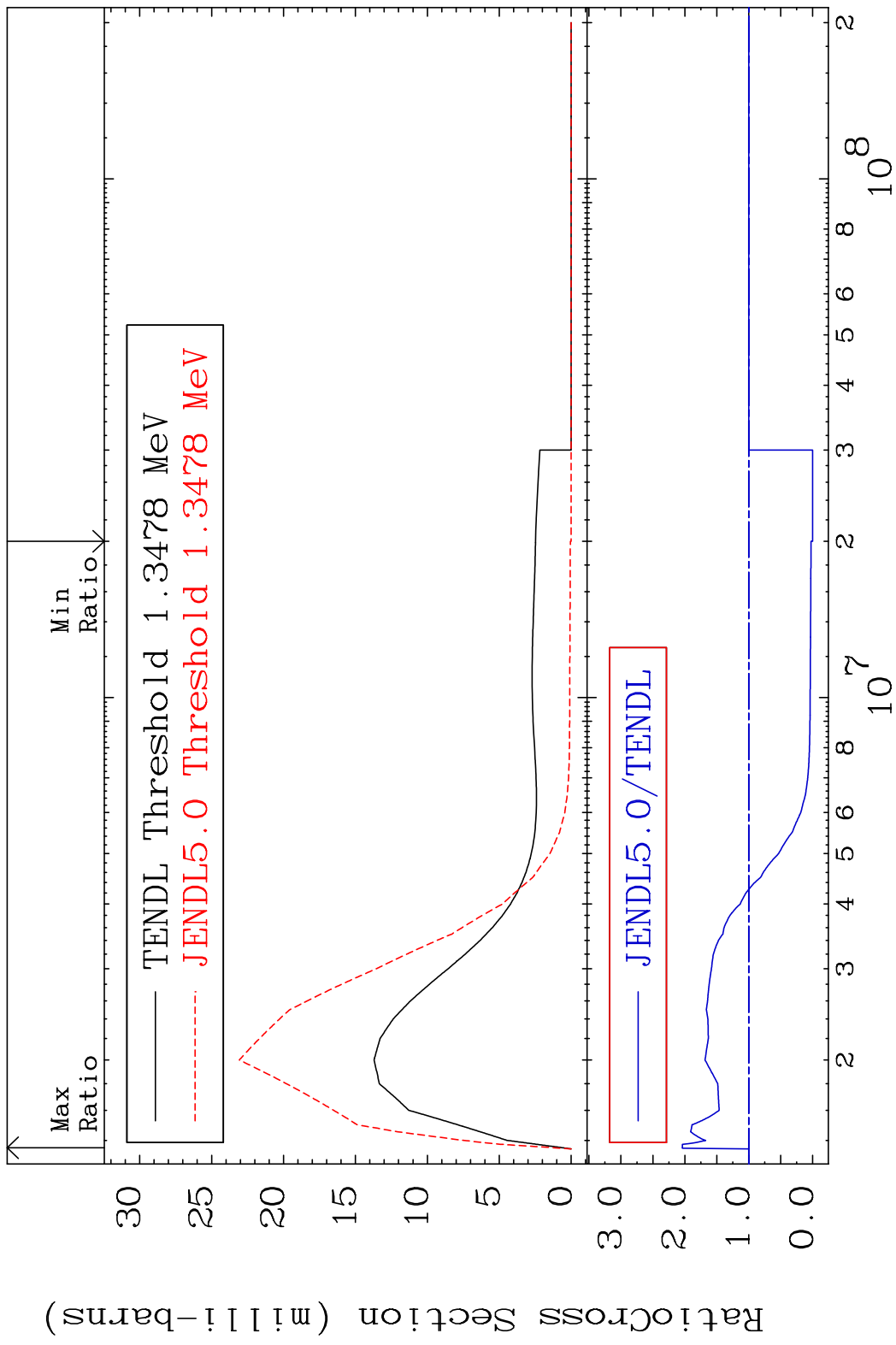
MAT 5319 MT= 75 (n, n') Level 53-I -125
 Cross Section -100.0 To 206.9 %



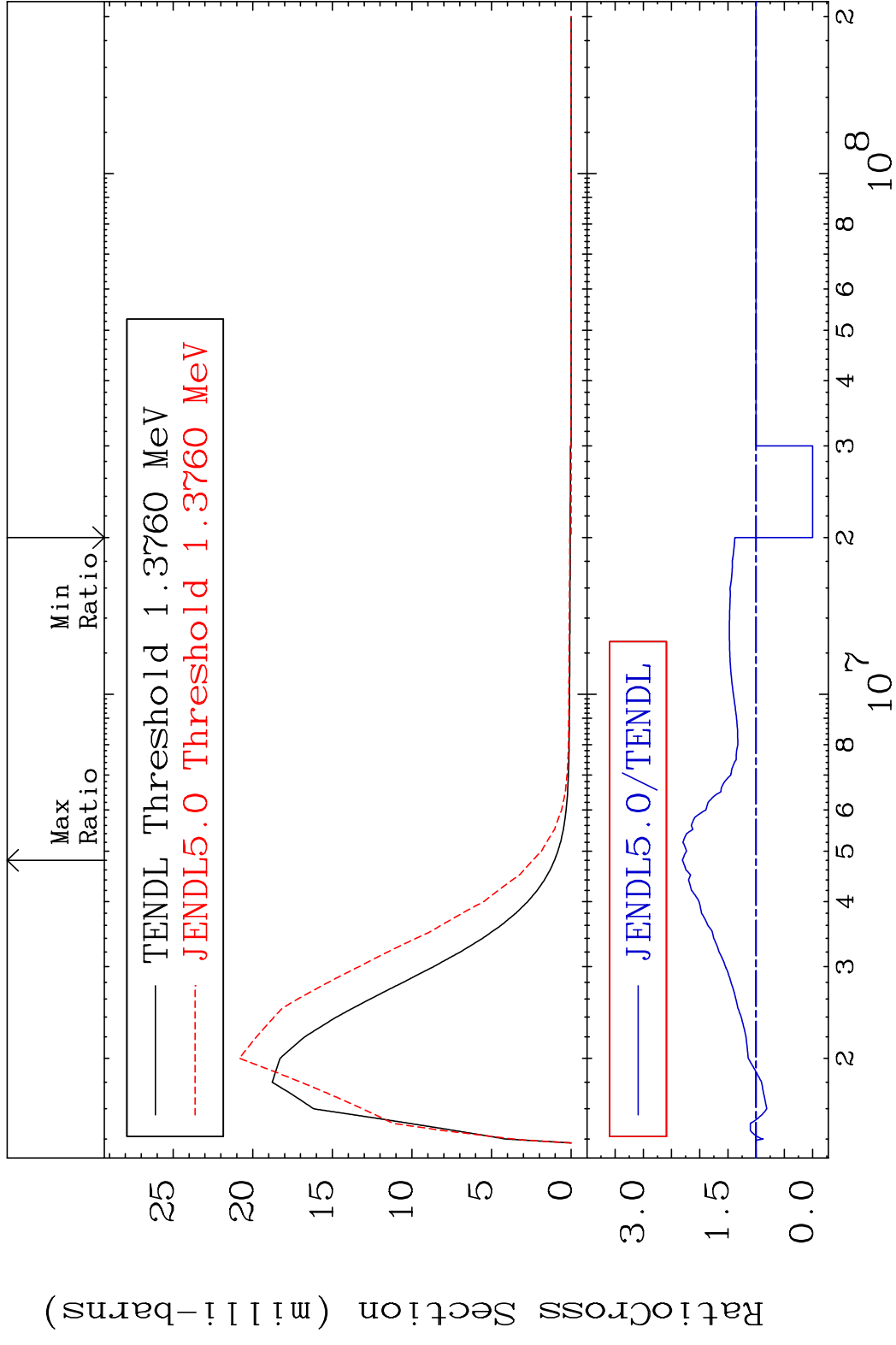
MAT 5319 MT= 76 (n, n') Level 53-I -125
 Cross Section -100.0 To 382.8 %



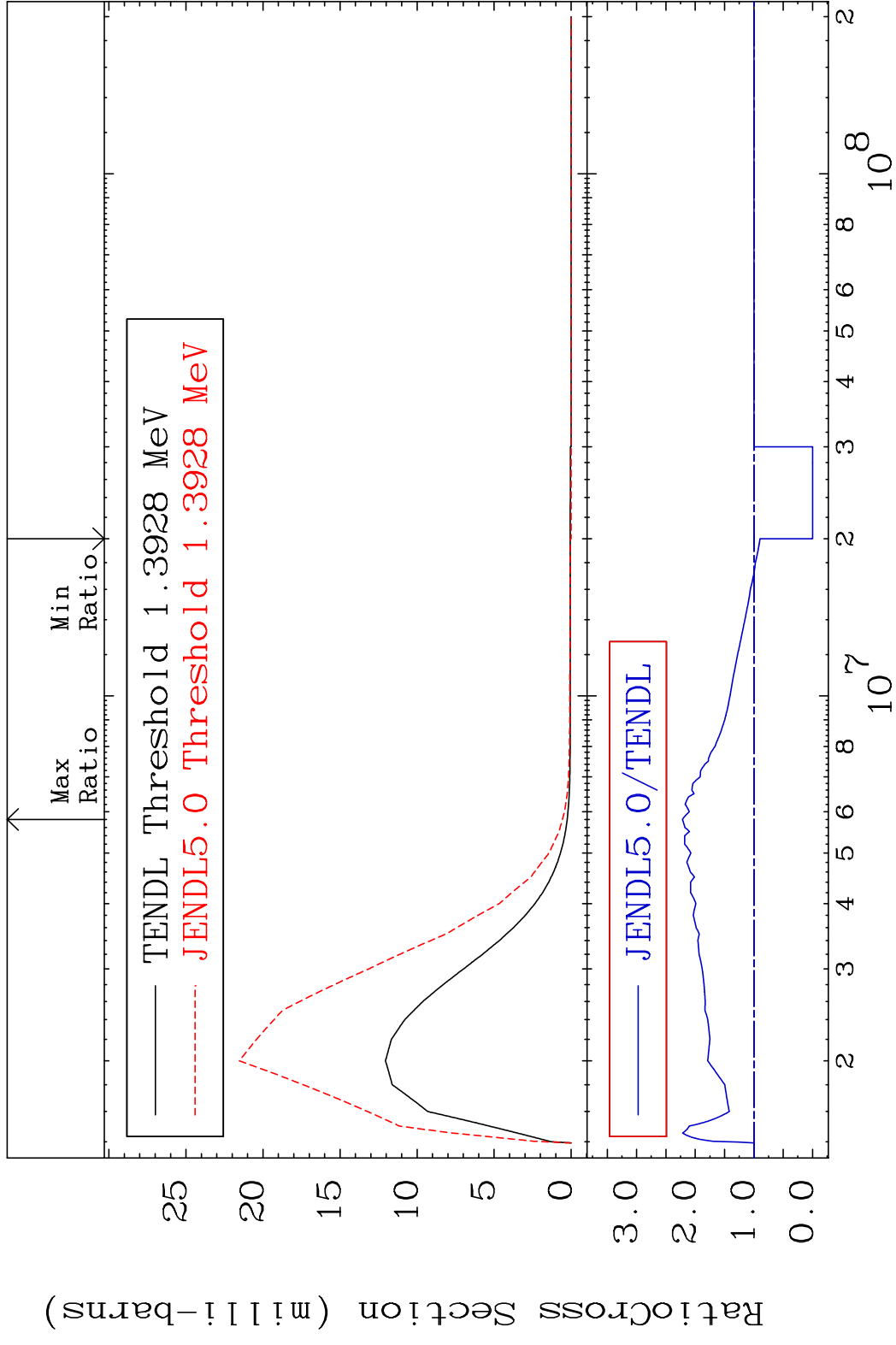
MAT 5319 MT= 77 (n,n') Level 53-I -125
 Cross Section -100.0 To 103.8 %



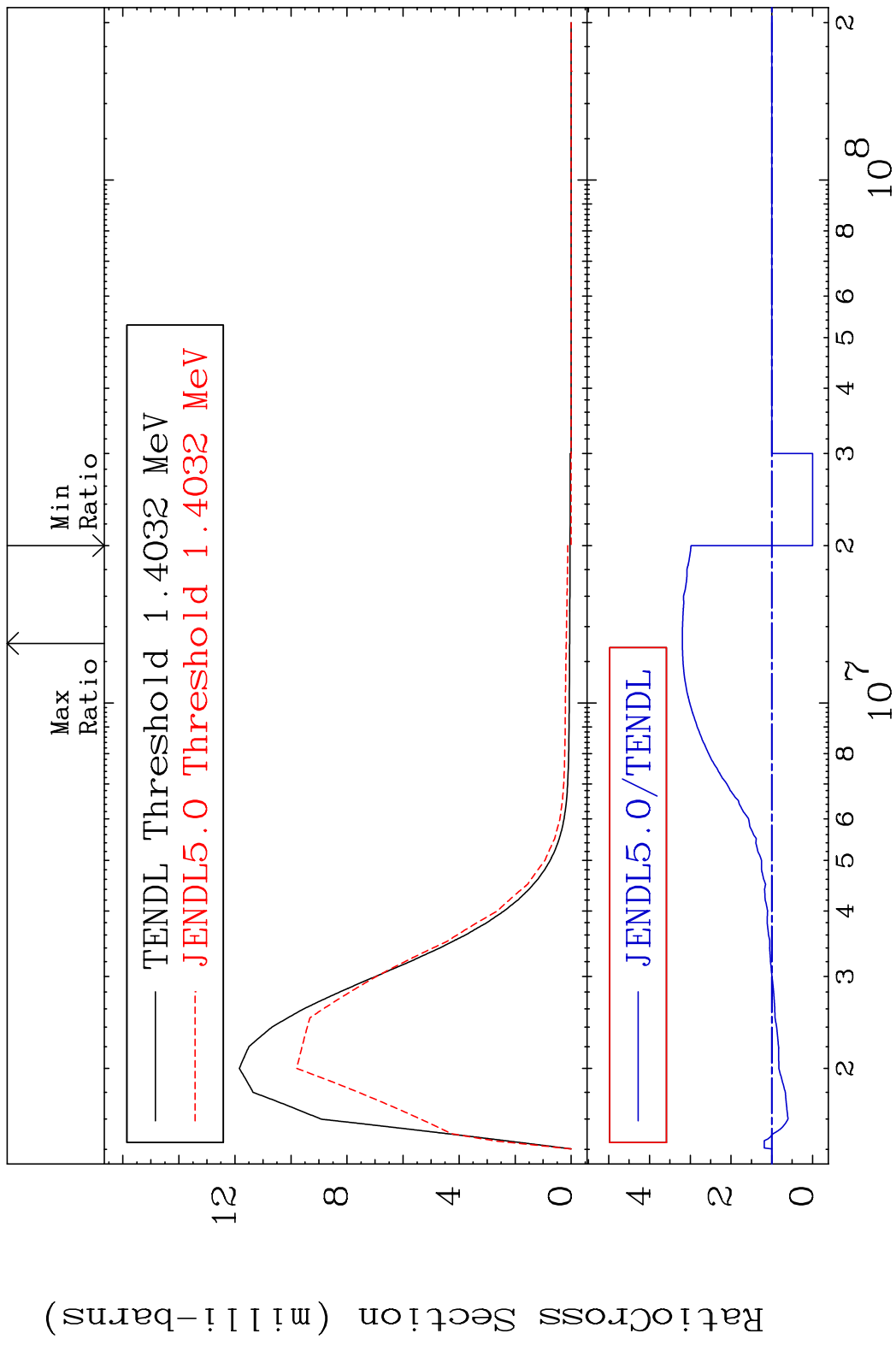
MAT 5319 MT= 78 (n, n') Level 53-I -125
 Cross Section -100.0 To 130.8 %



MAT 5319 MT= 79 (n, n') Level 53-I -125
 Cross Section -100.0 To 122.0 %



MAT 5319 MT= 80 (n, n') Level 53-I -125
 Cross Section -100.0 To 219.4 %

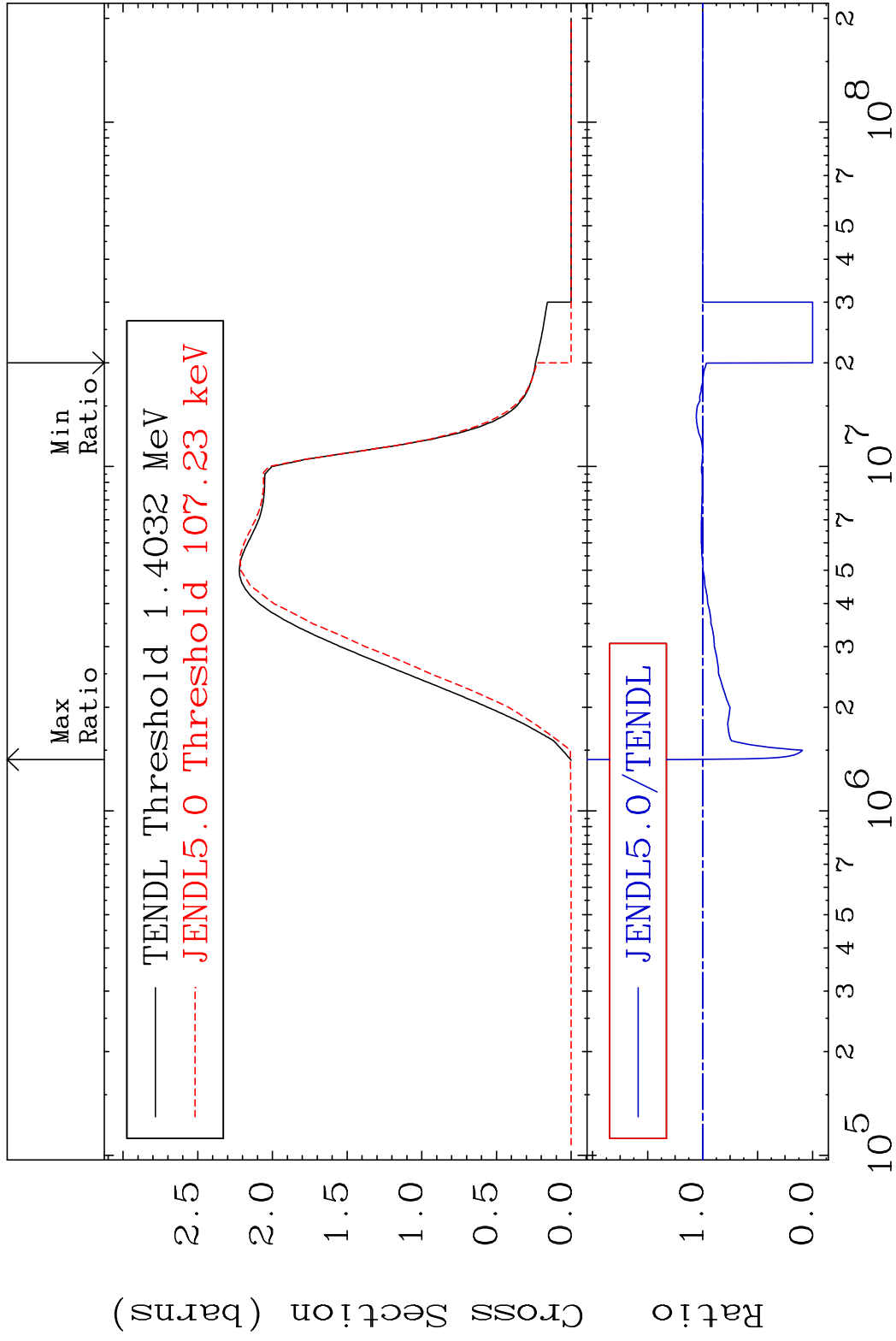


MAT 5319

(n, n') Continuum

53-I -125

Cross Section -100.0 To 18.41 %



42

Incident Energy (eV)

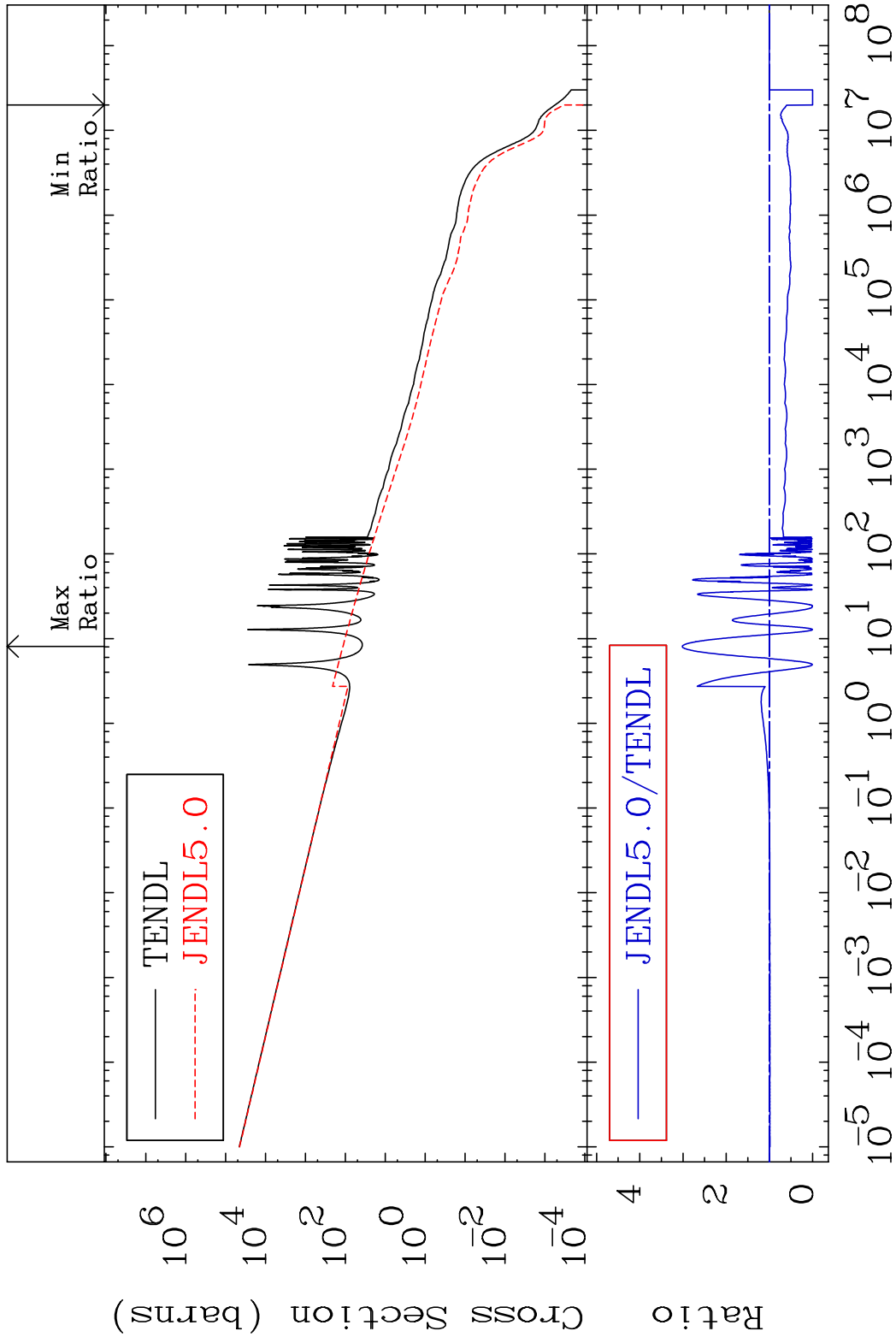
53-I -125

MAT 5319

(n, γ)

53-I -125

Cross Section -100.0 To 201.4 %



43

Incident Energy (eV)

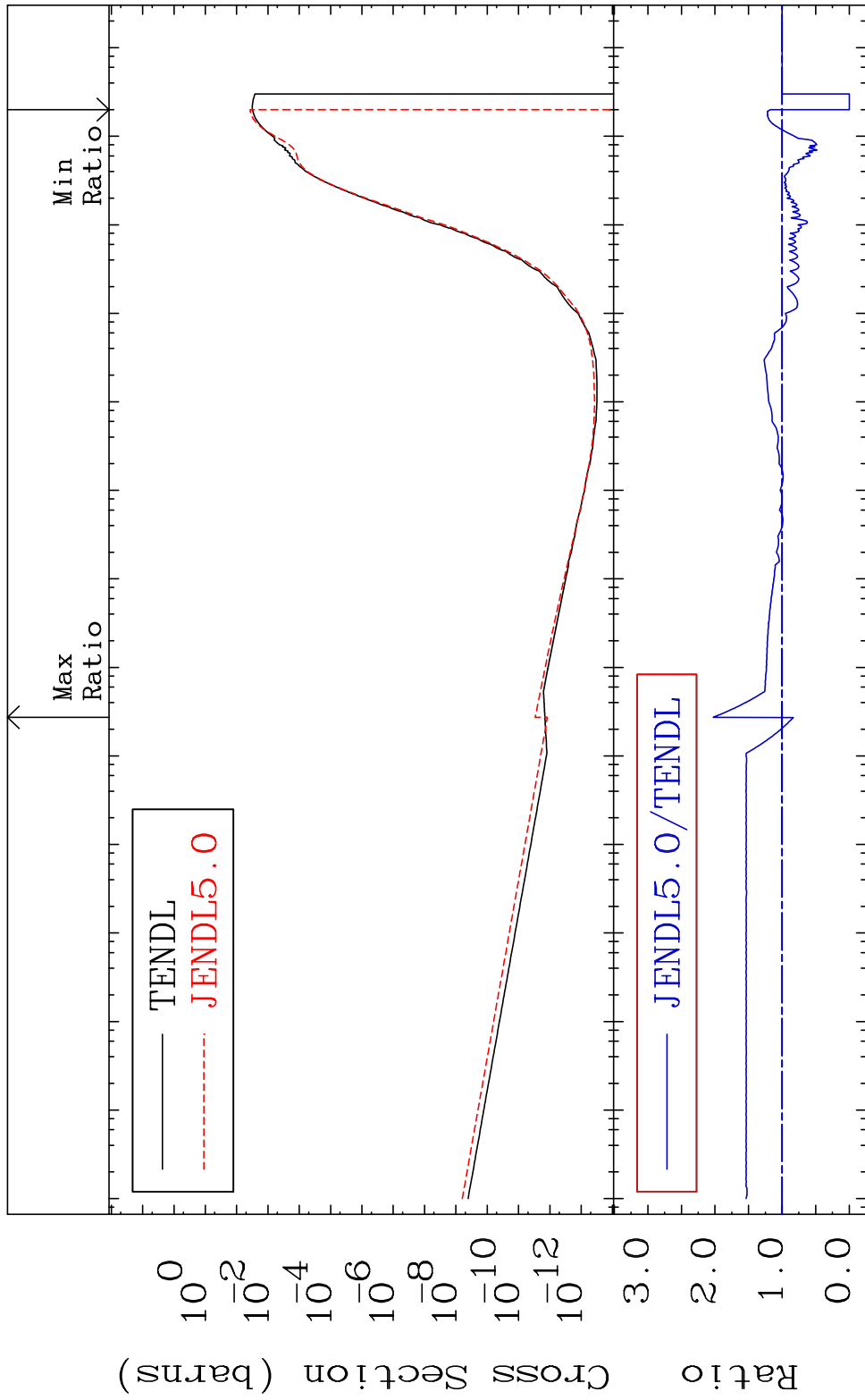
53-I -125

MAT 5319

(n, p)

53-I -125

Cross Section -100.0 To 102.7 %

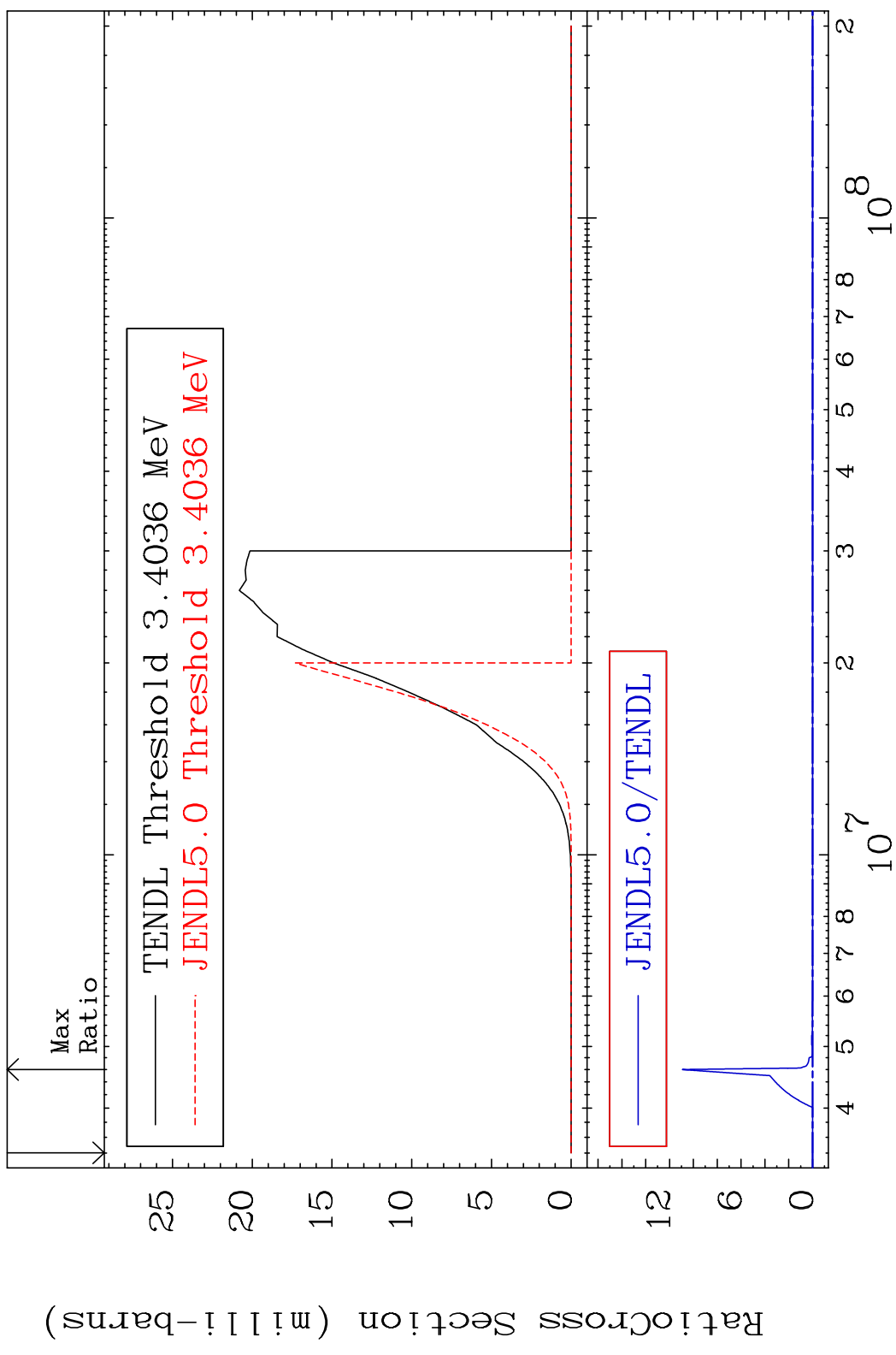


MAT 5319

(n,d)

53-I -125

Cross Section -100.0 To 9999. %

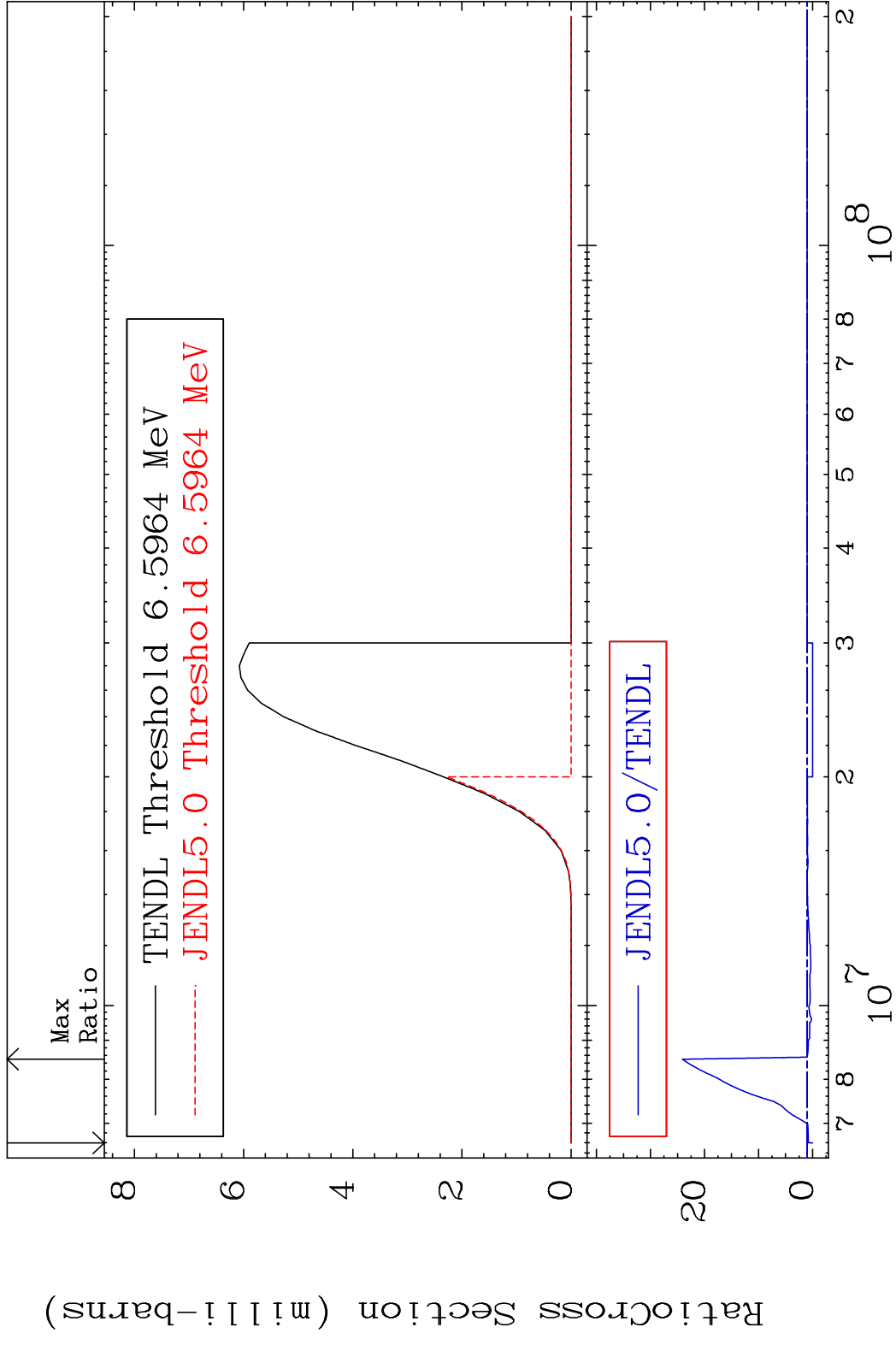


45

Incident Energy (eV)

53-I -125

MAT 5319 (n, t) 53-I -125
 Cross Section -100.0 To 2310. %



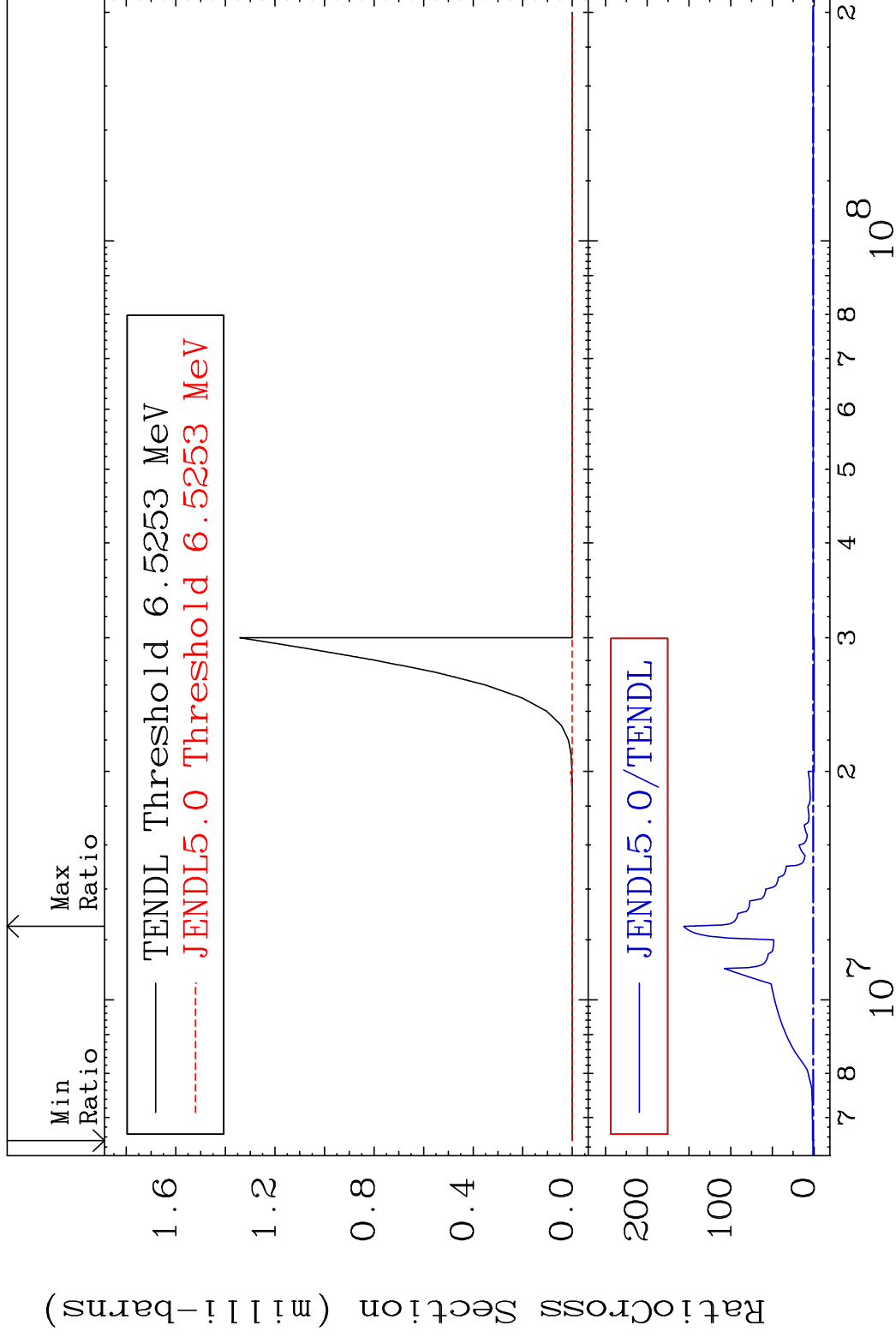
46 Incident Energy (eV) 53-I -125

MAT 5319

(n, He-3)

53-I -125

Cross Section -100.0 To 9999. %



47

Incident Energy (eV)

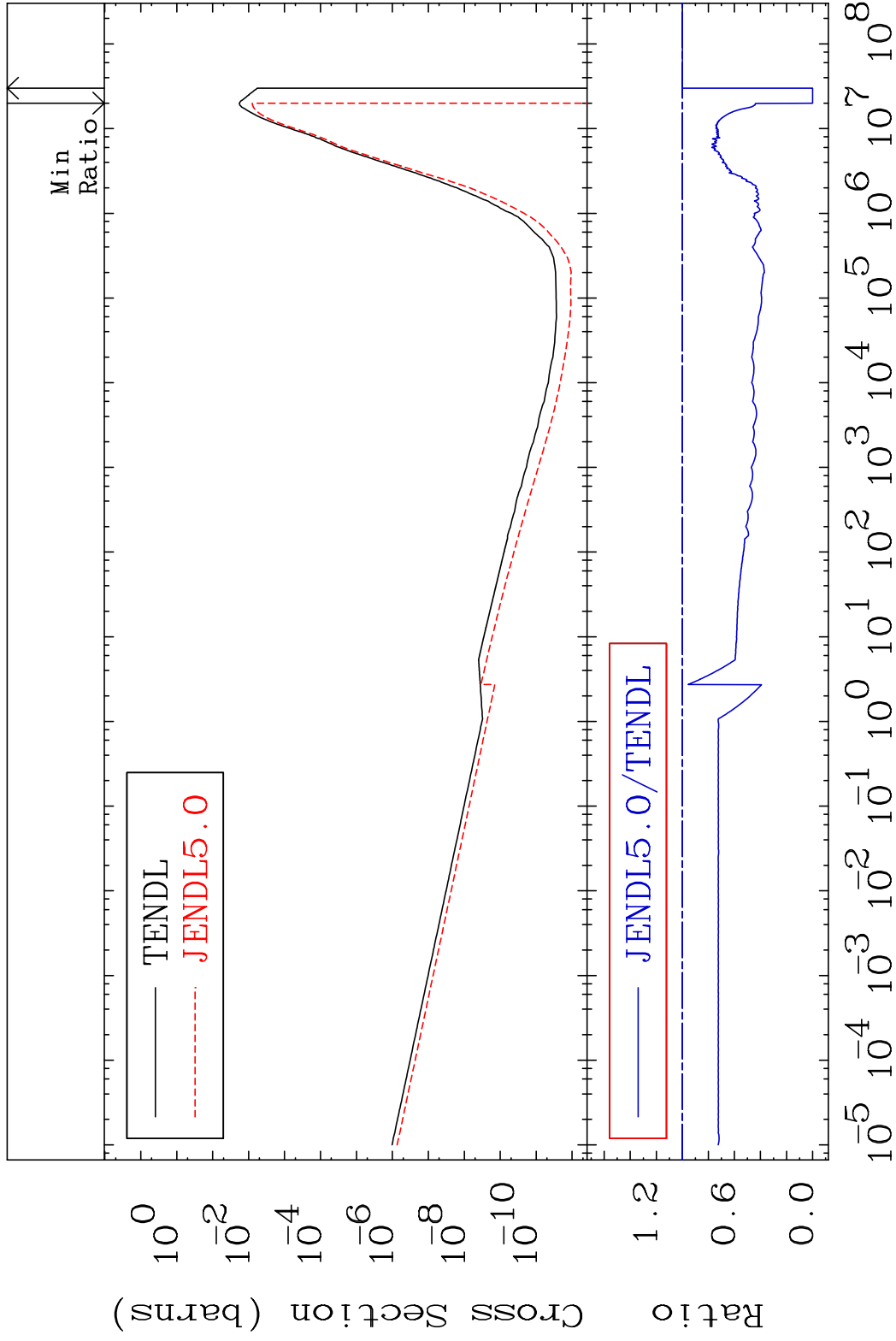
53-I -125

MAT 5319

(n, α)

53-I -125

Cross Section -100.0 To 0.000 %



48

Incident Energy (eV)

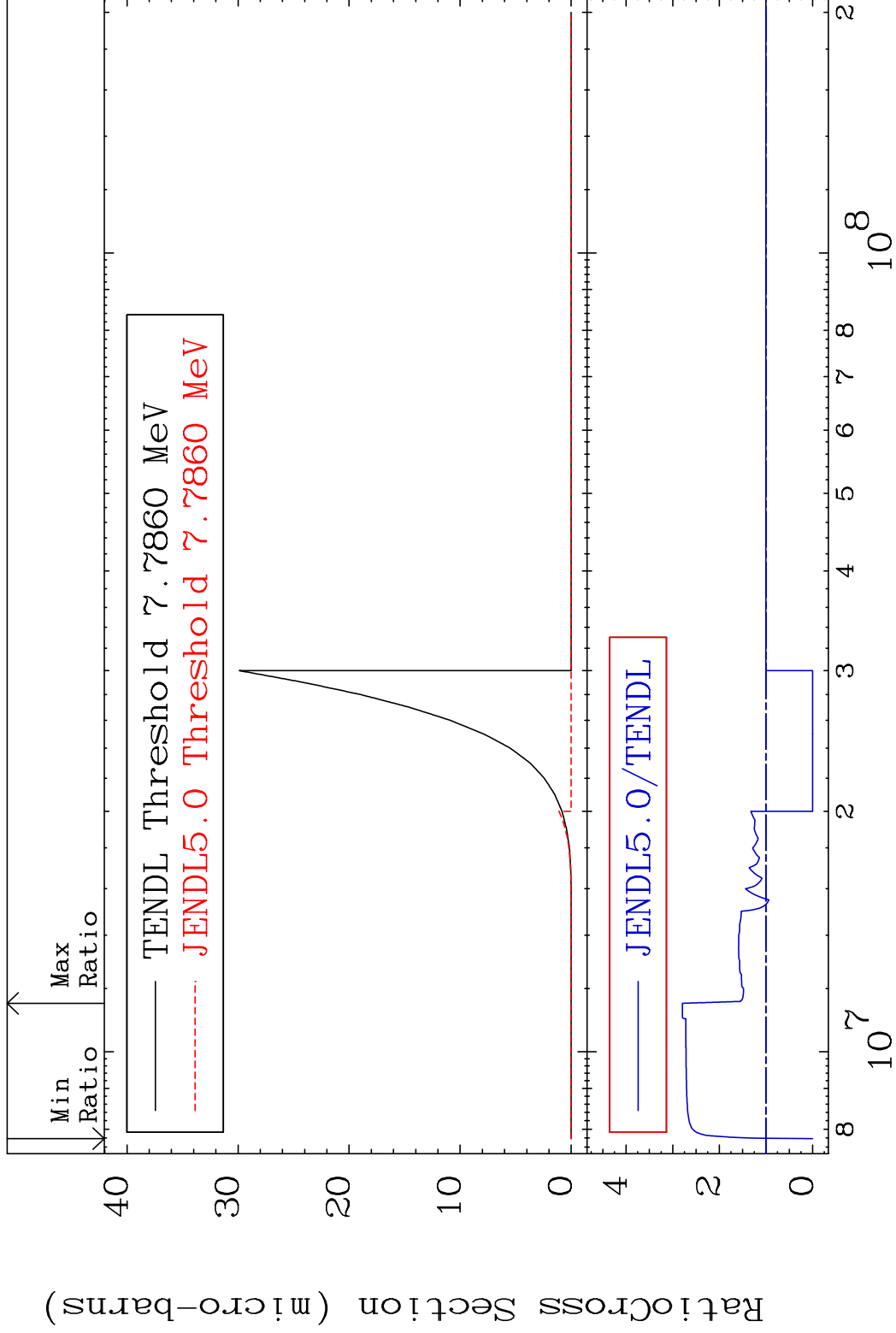
53-I -125

MAT 5319

(n,2p)

53-I -125

Cross Section -100.0 To 179.3 %



49

Incident Energy (eV)

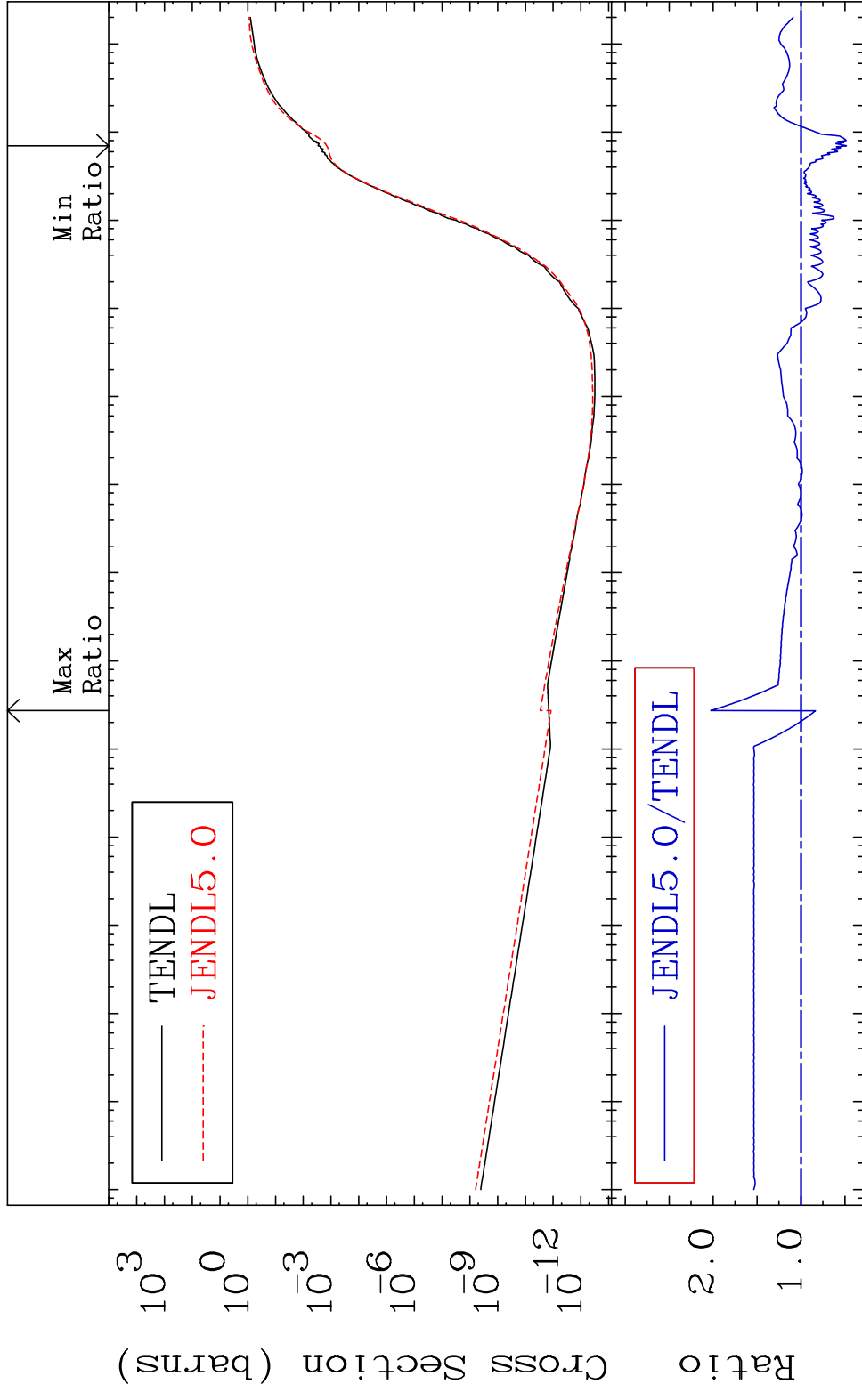
53-I -125

MAT 5319

Hydrogen Production

53-I -125

Cross Section -51.69 To 102.7 %



10^3

10^0

10^{-3}

10^{-6}

10^{-9}

10^{-12}

Ratio

2.0

1.0

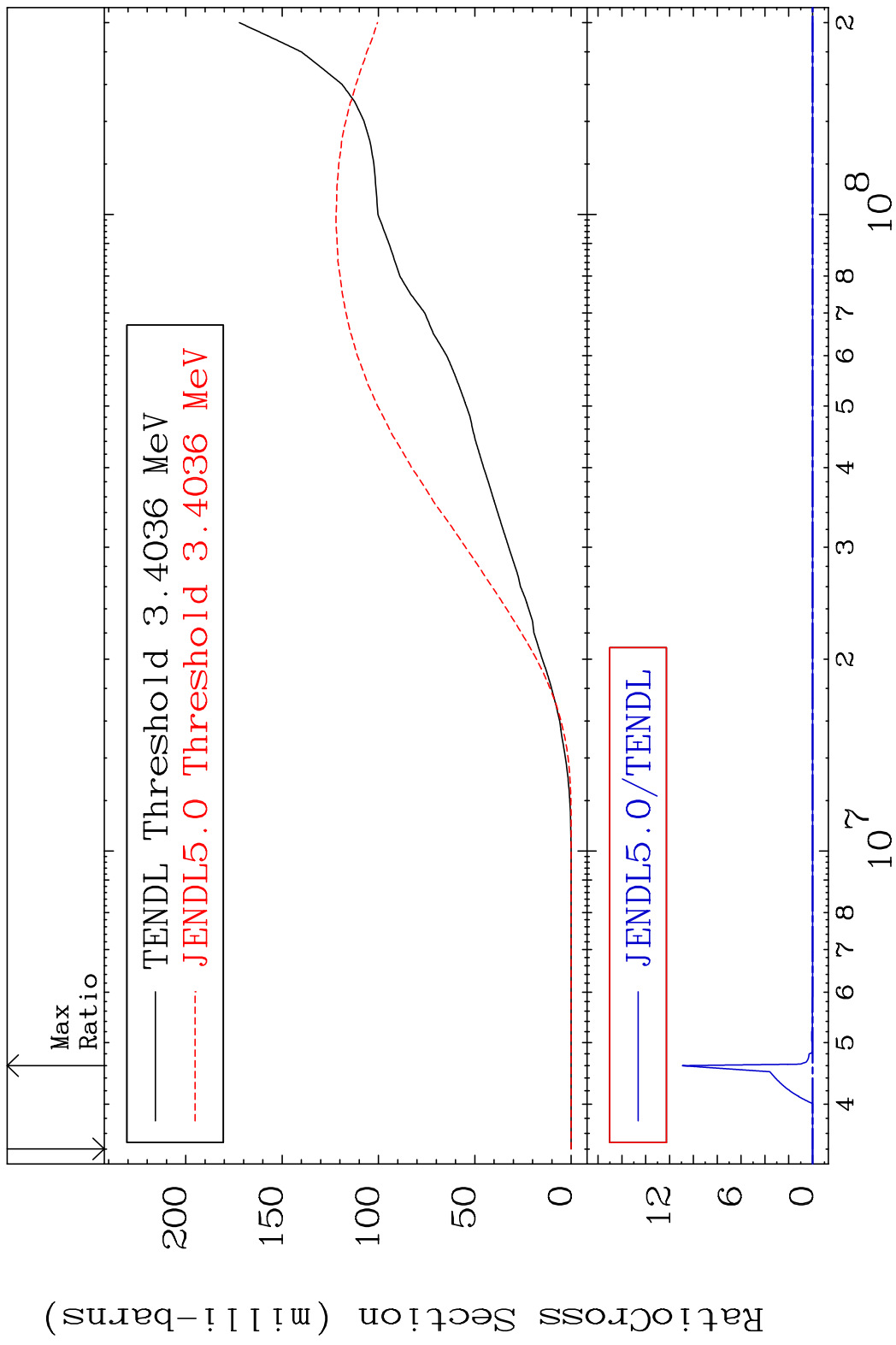
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8

50

Incident Energy (eV)

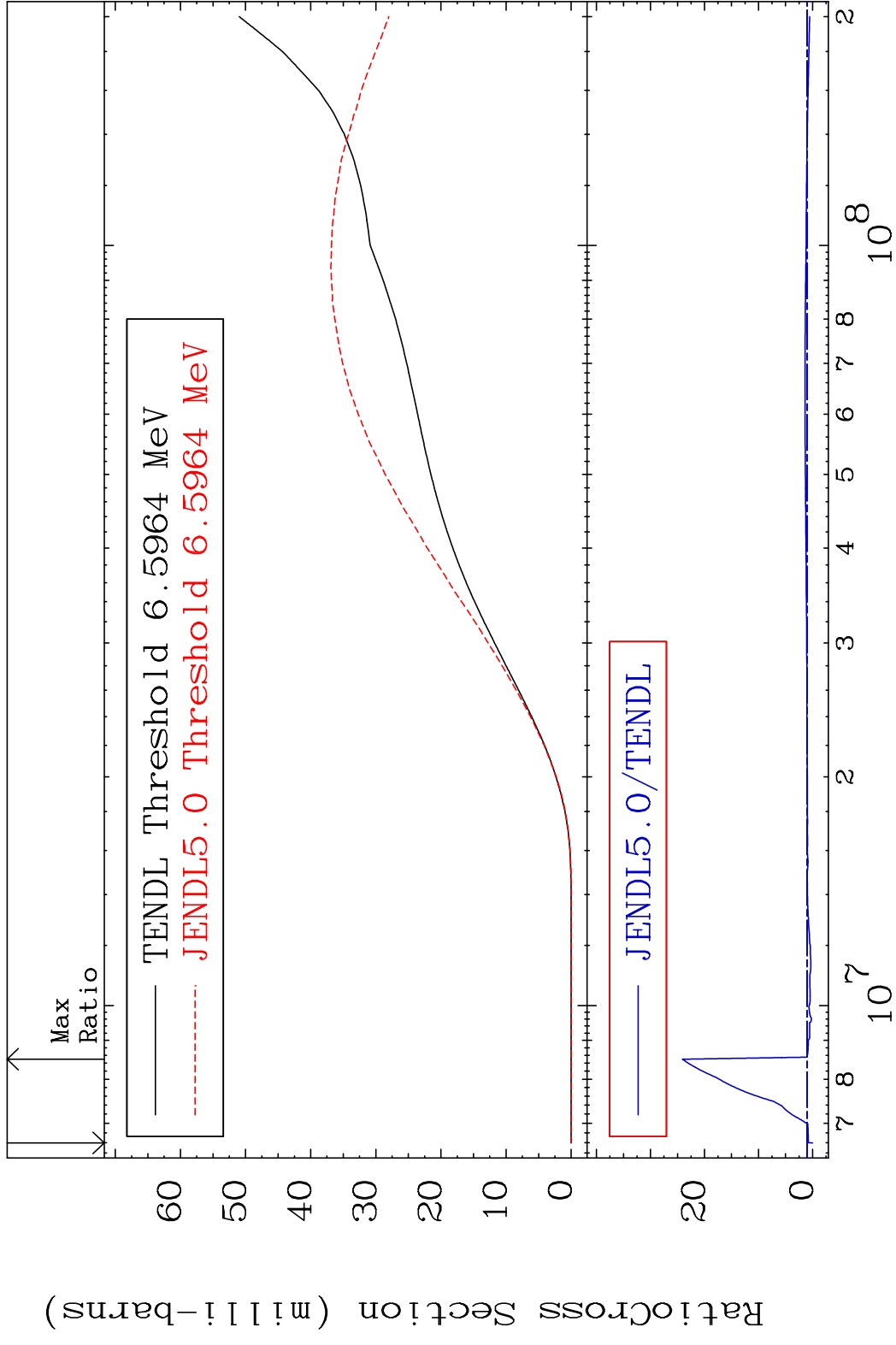
53-I -125

MAT 5319 Deuterium Production 53-I -125
 Cross Section -100.0 To 9999. %



MAT 5319

Tritium Production 53-I -125
Cross Section -100.0 To 2310. %

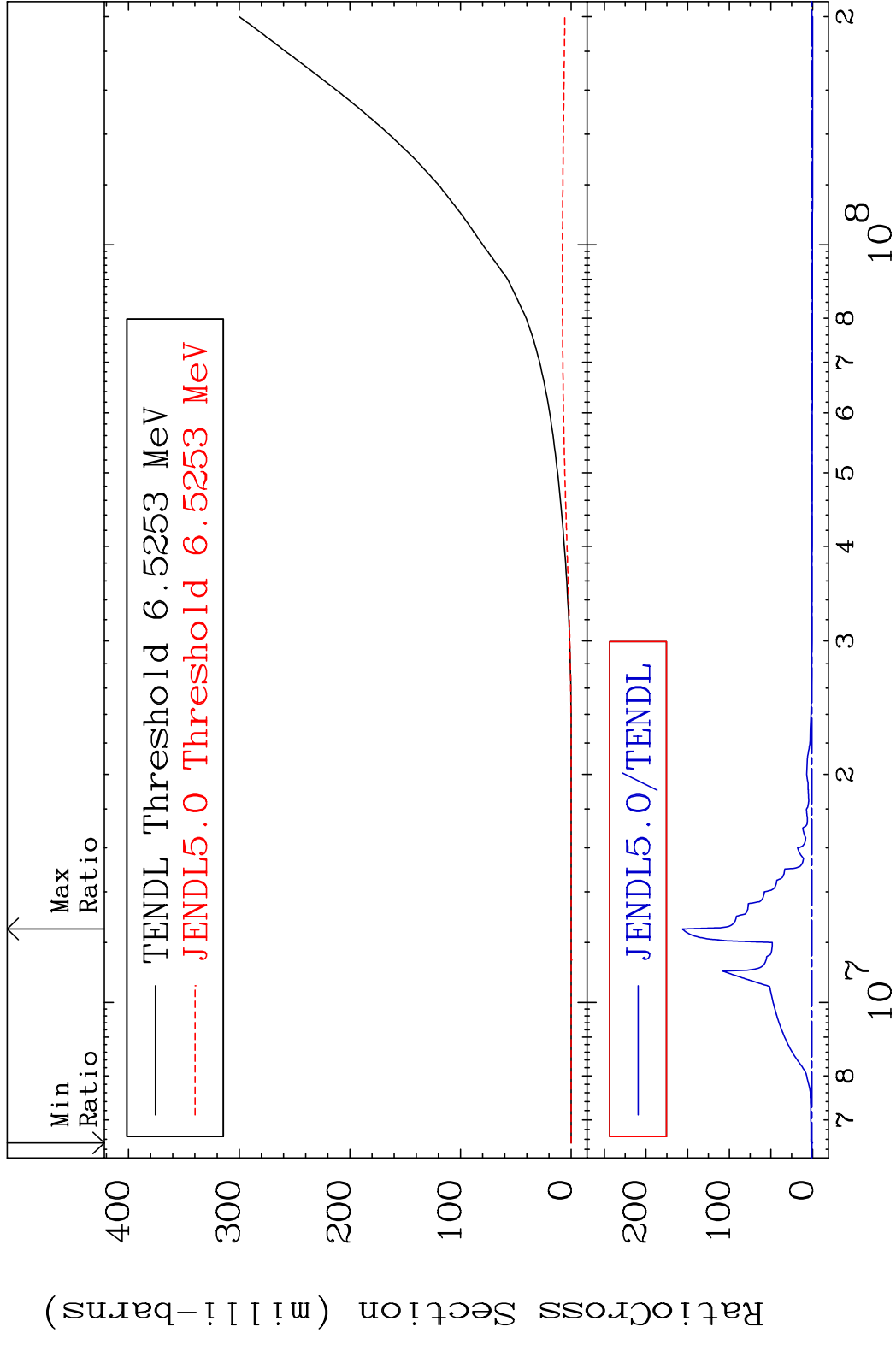


MAT 5319

He-3 Production

53-I -125

Cross Section -100.0 To 9999. %



53

Incident Energy (eV)

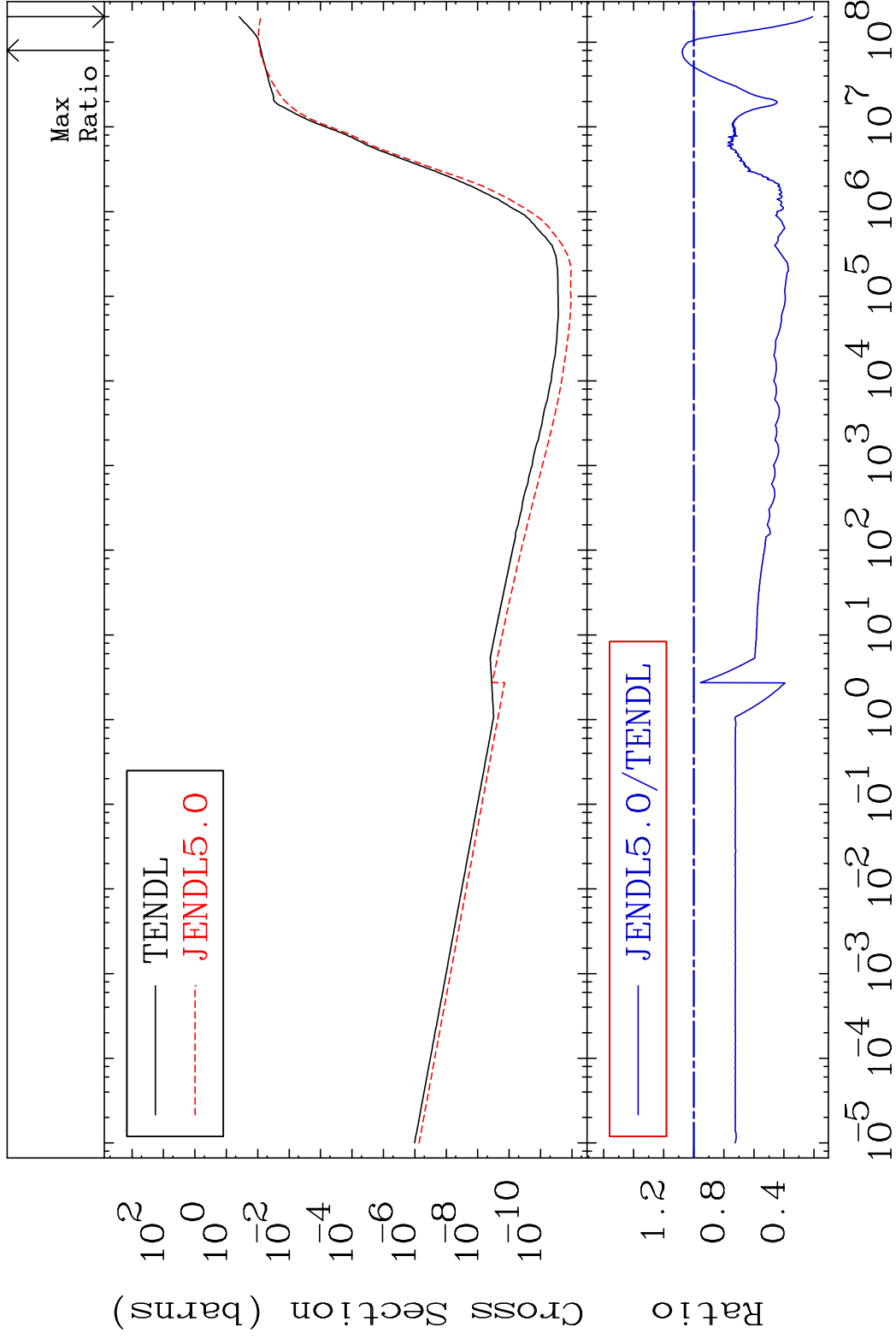
53-I -125

MAT 5319

He-4 Production

53-I -125

Cross Section -79.02 To 7.615 %

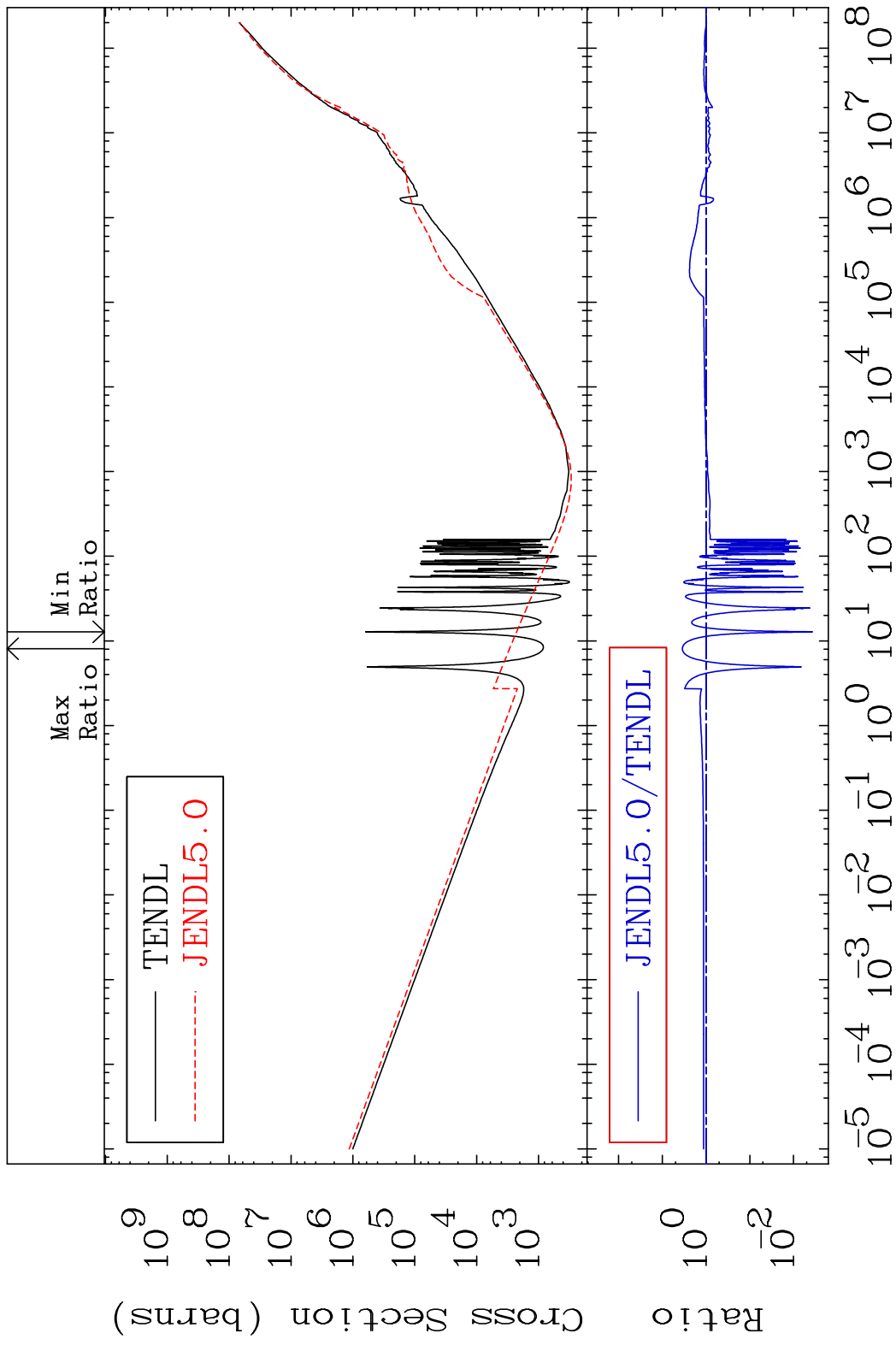


54

Incident Energy (eV)

53-I -125

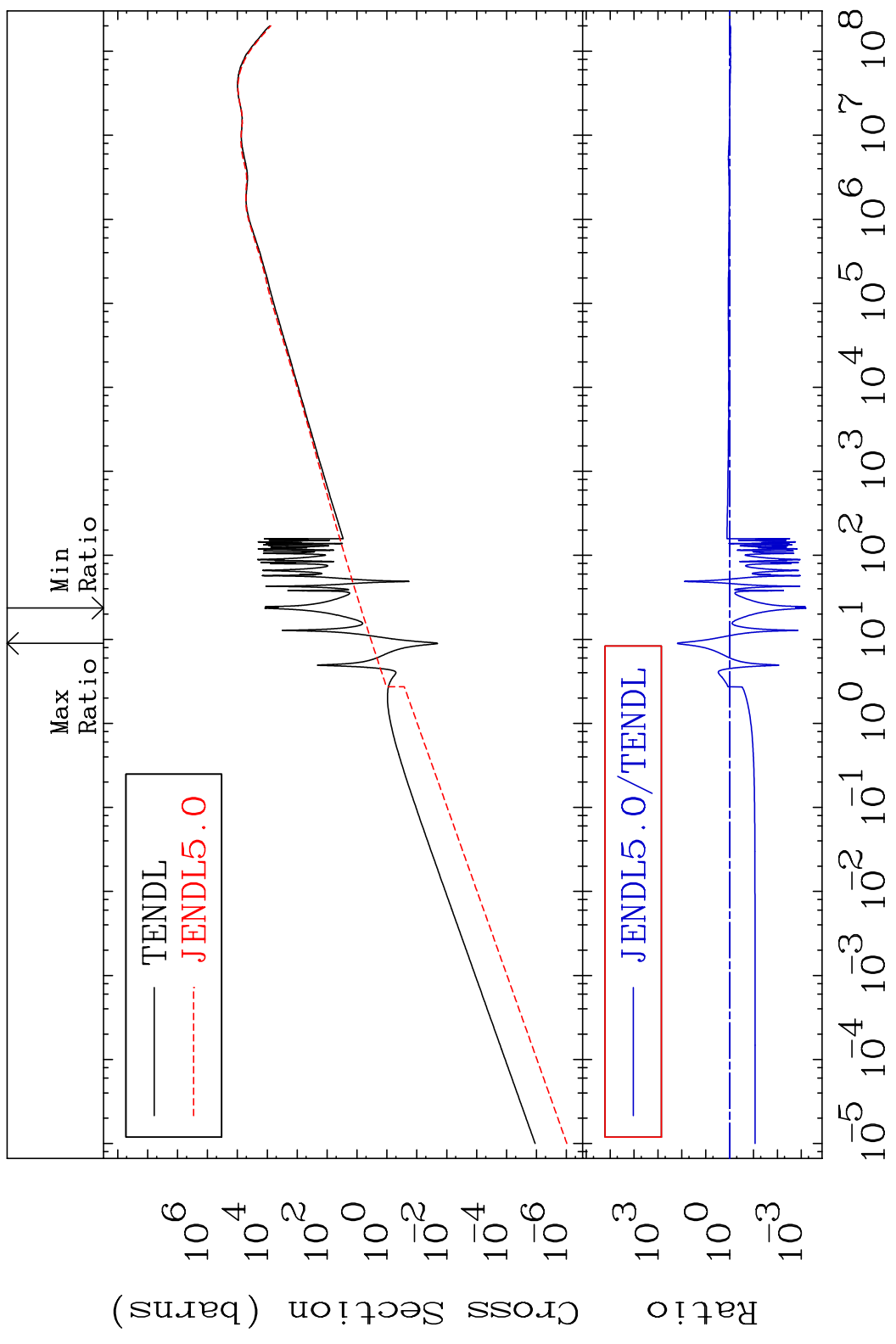
MAT 5319 Kerma total (eV-barns) 53-I -125
 Cross Section -99.63 To 247.9 %



55 Incident Energy (eV) 53-I -125

MAT 5319

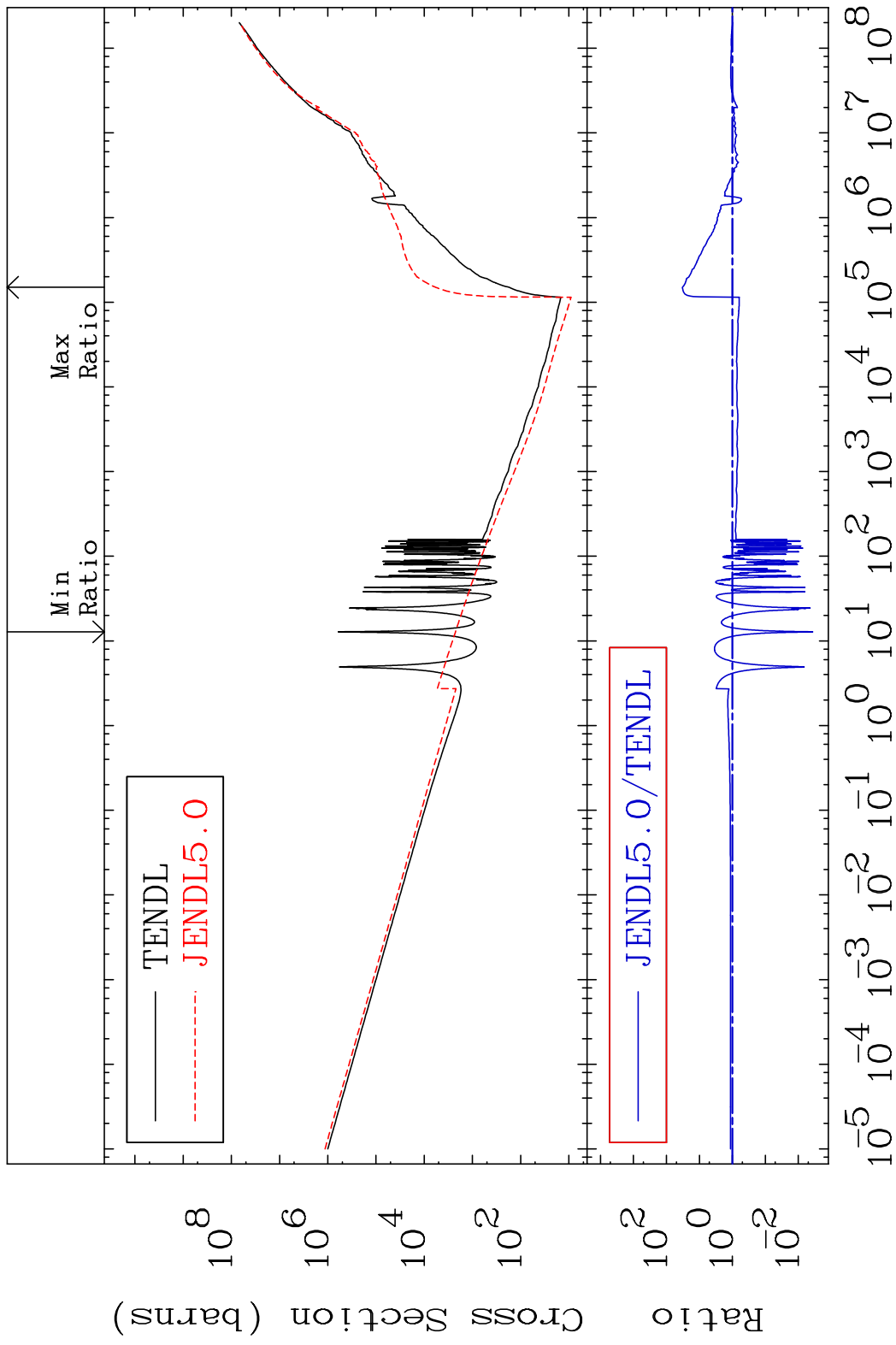
Kerma elastic 53-I -125
Cross Section -99.94 To 9999. %



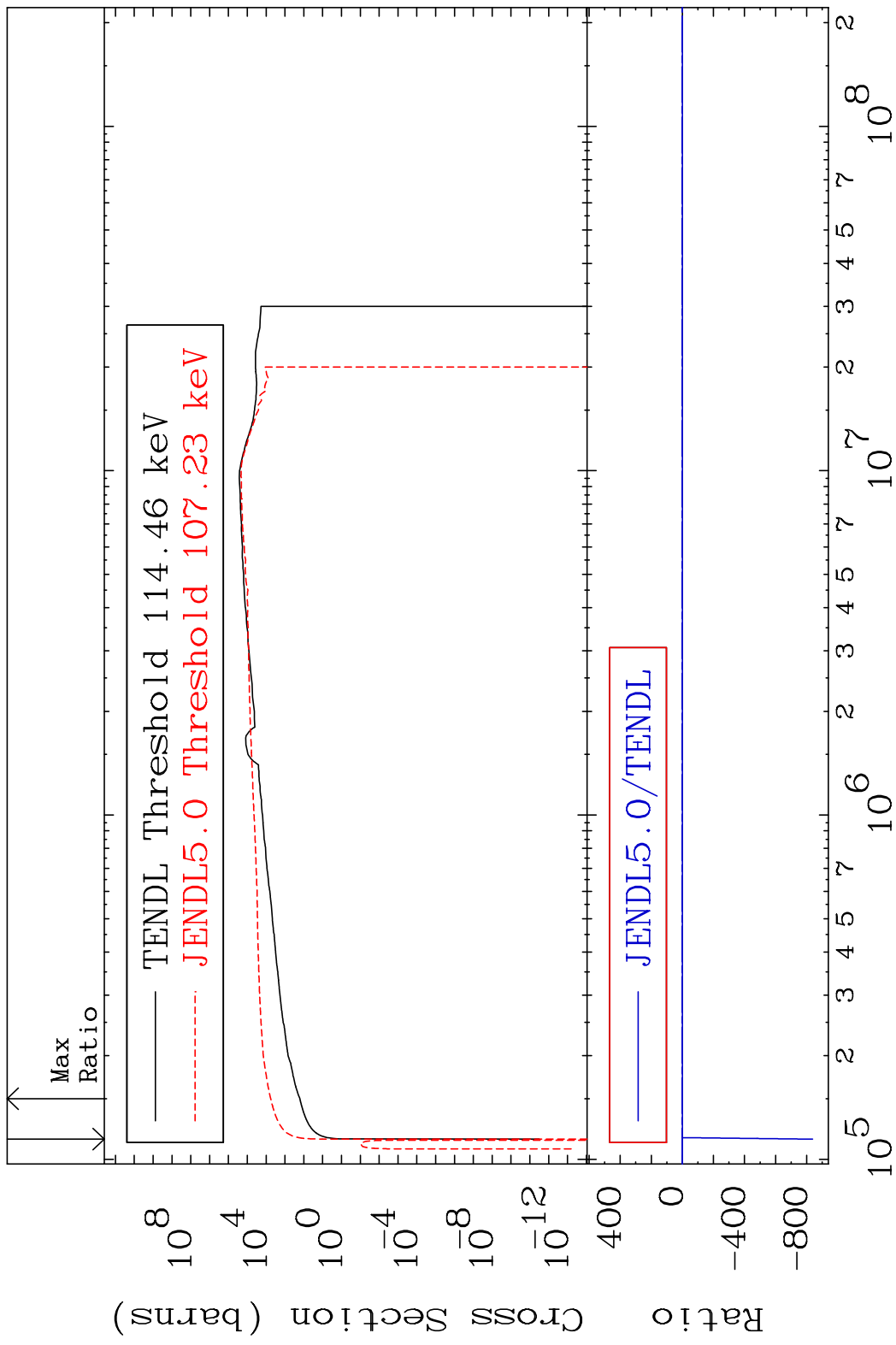
56

Incident Energy (eV) 53-I -125

MAT 5319 Kerma non-elastic (all but mt2) 53-I -125
 Cross Section -99.63 To 3187. %

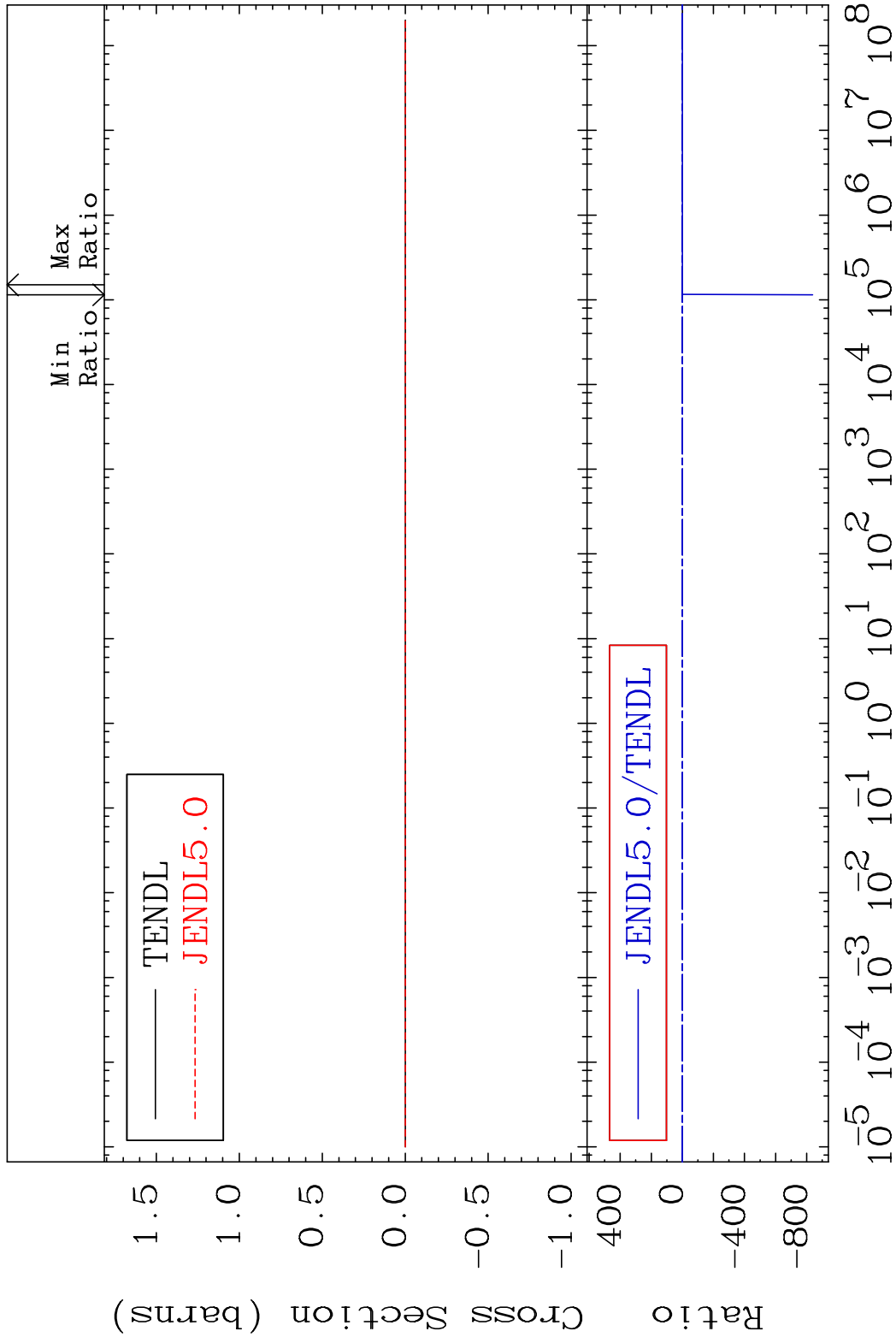


MAT 5319 Kerma inelastic (mt51-91) 53-I -125
 Cross Section -9999. To 3435. %



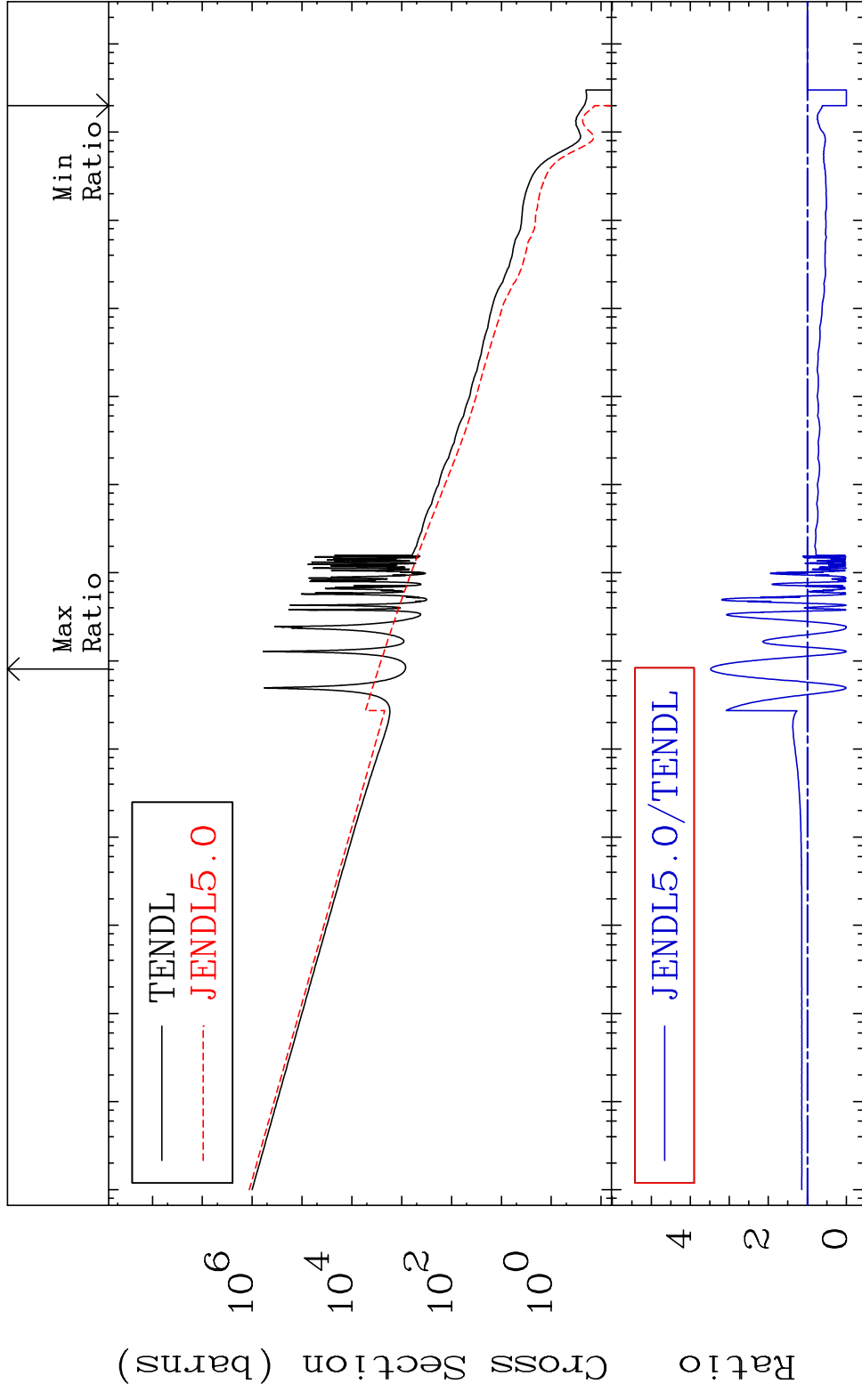
58 Incident Energy (eV) 53-I -125

MAT 5319 Kerma fission (mt18 or mt19-20-21-38) 53-I -125
 Cross Section -9999. To 3435. %



MAT 5319

Kerma capture (mt102) 53-I -125
Cross Section -100.0 To 247.7 %



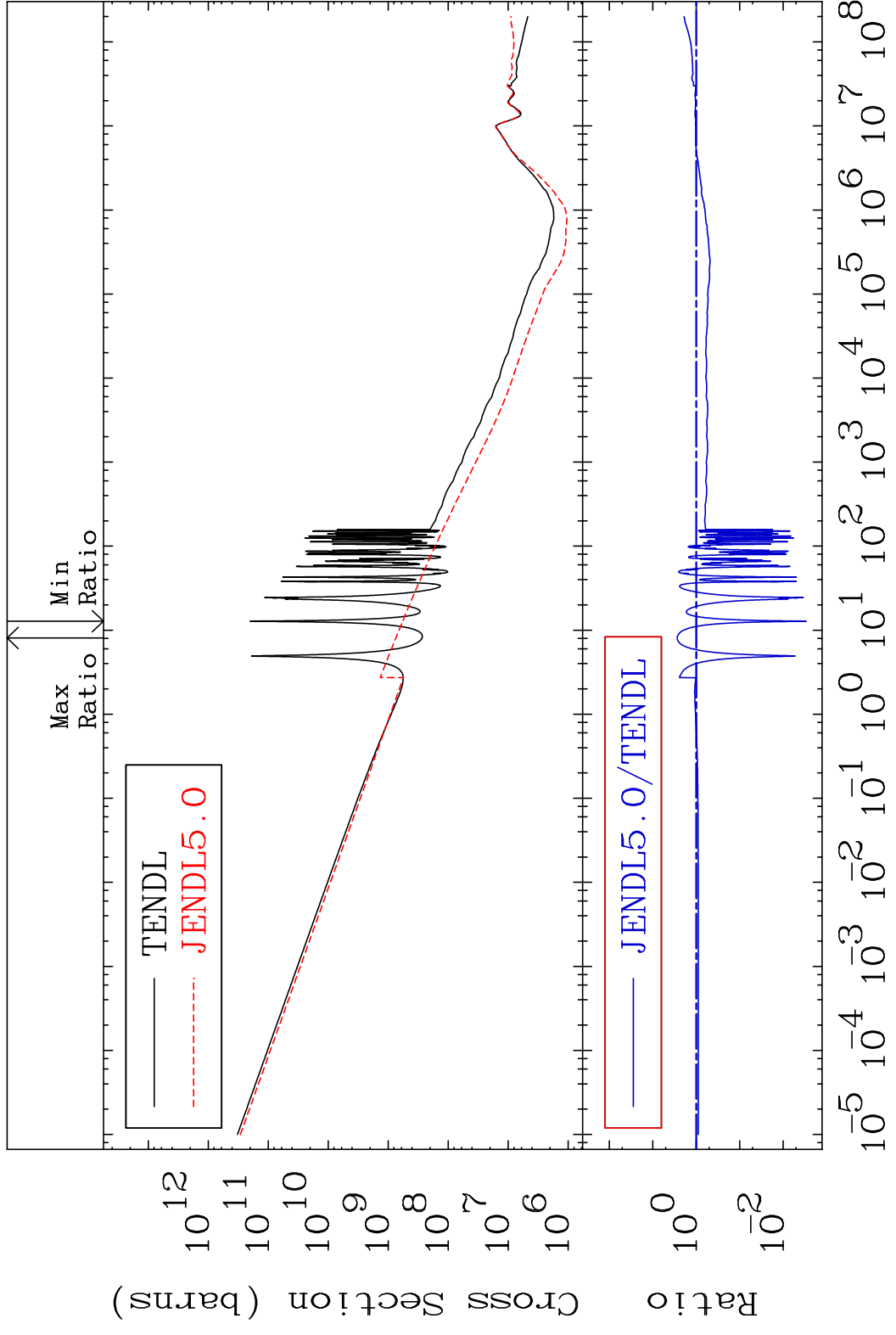
60

Incident Energy (eV)

53-I -125

MAT 5319

Total photon (eV-barns) 53-I -125
Cross Section -99.71 To 173.0 %

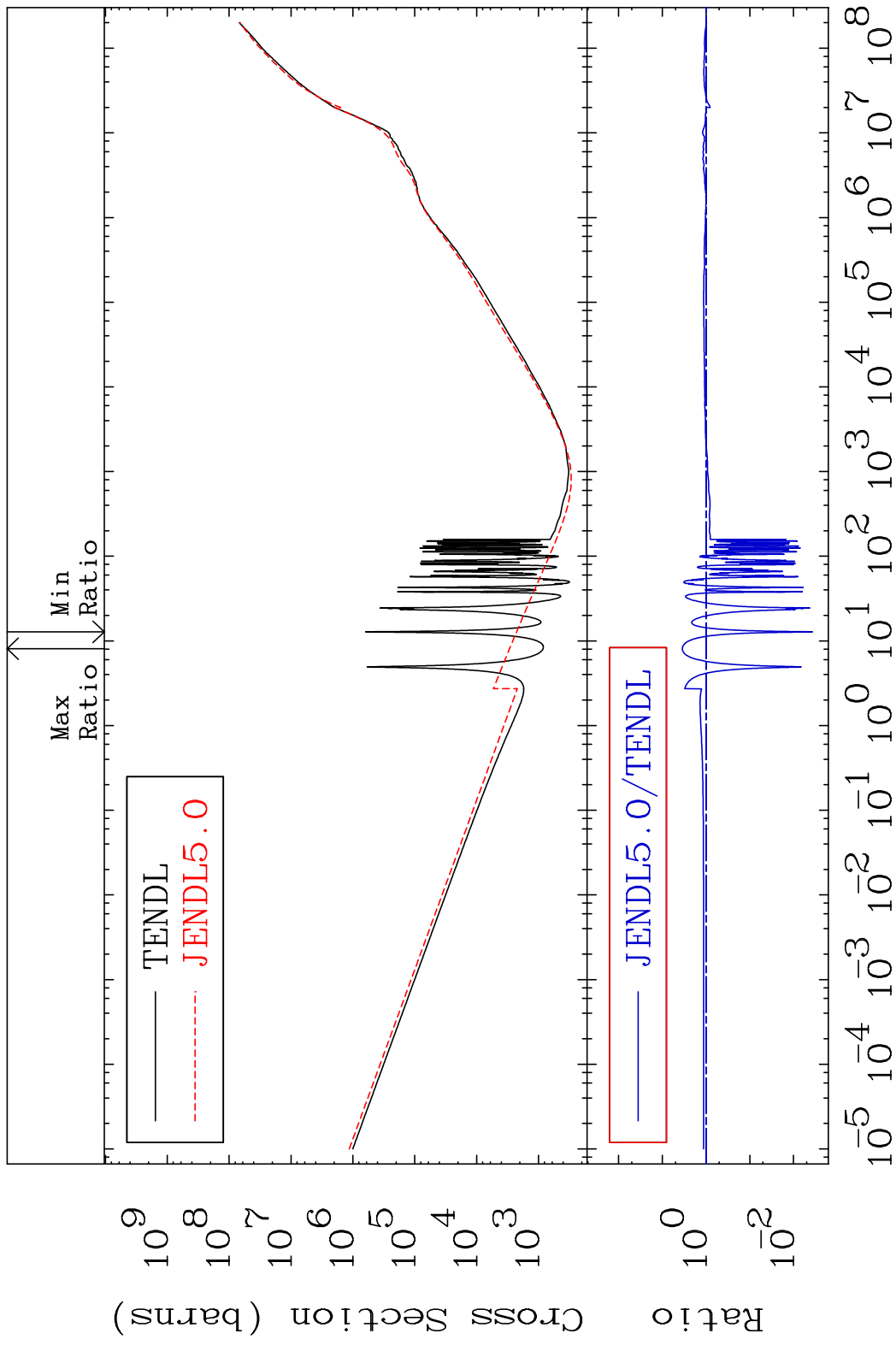


61

Incident Energy (eV)

53-I -125

MAT 5319 Total kinematic kerma (high limit) 53-I -125
Cross Section -99.63 To 247.9 %

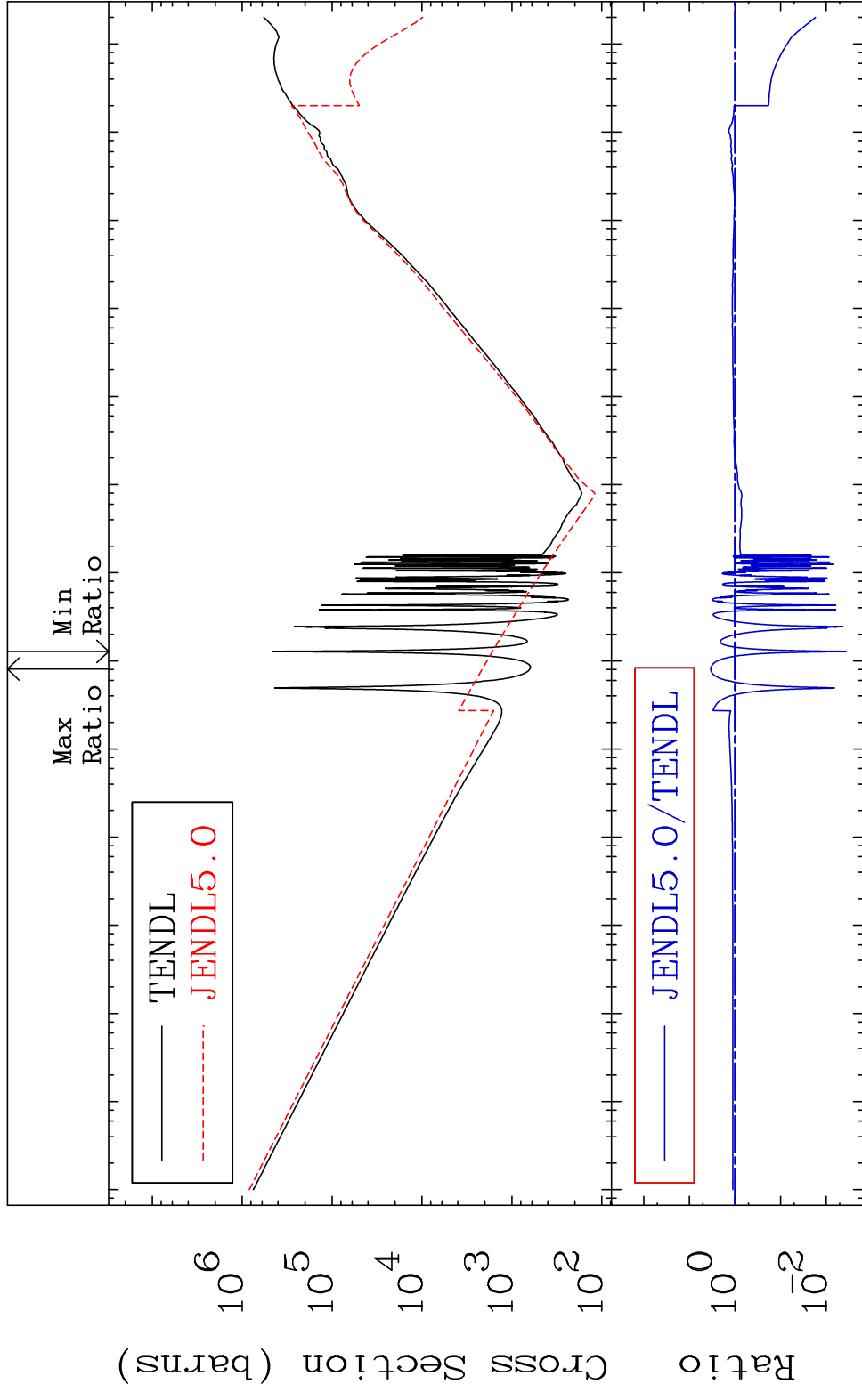


MAT 5319

Dpa total (eV-barns)

53-I -125

Cross Section -99.64 To 238.8 %



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

63

Incident Energy (eV)

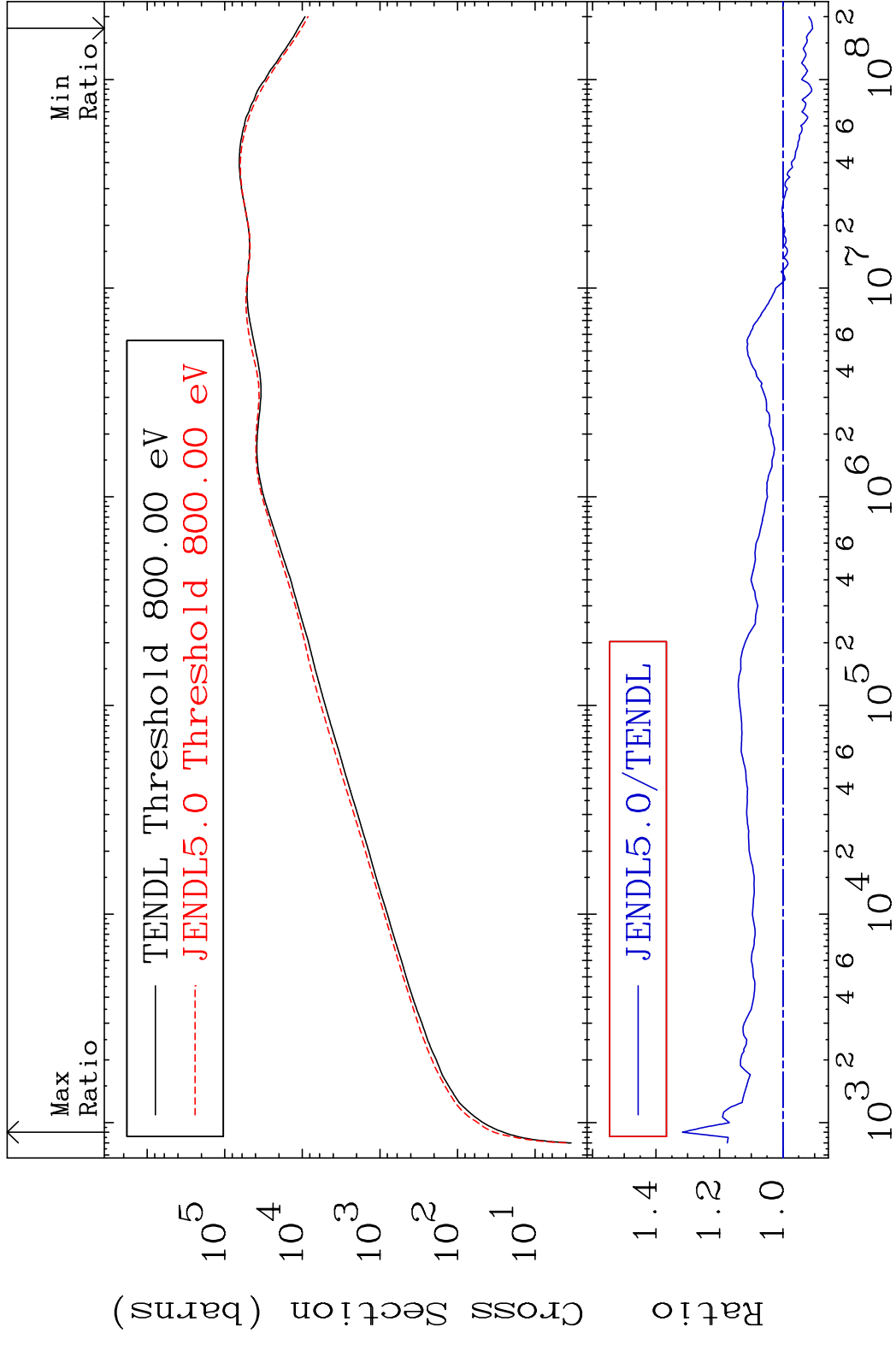
53-I -125

MAT 5319

Dpa elastic (mt2)

53-I -125

Cross Section -9.357 To 31.70 %

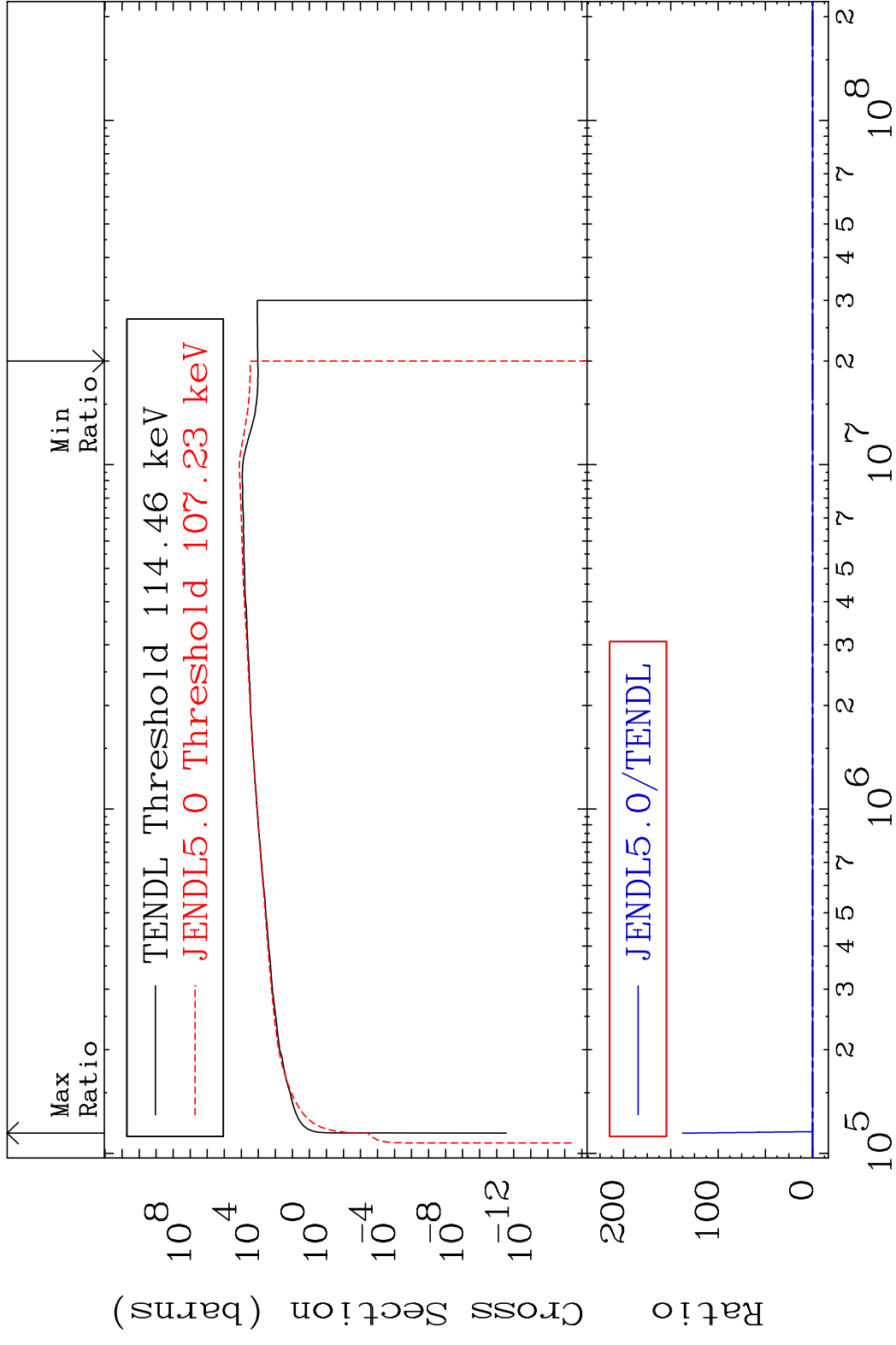


64

Incident Energy (eV)

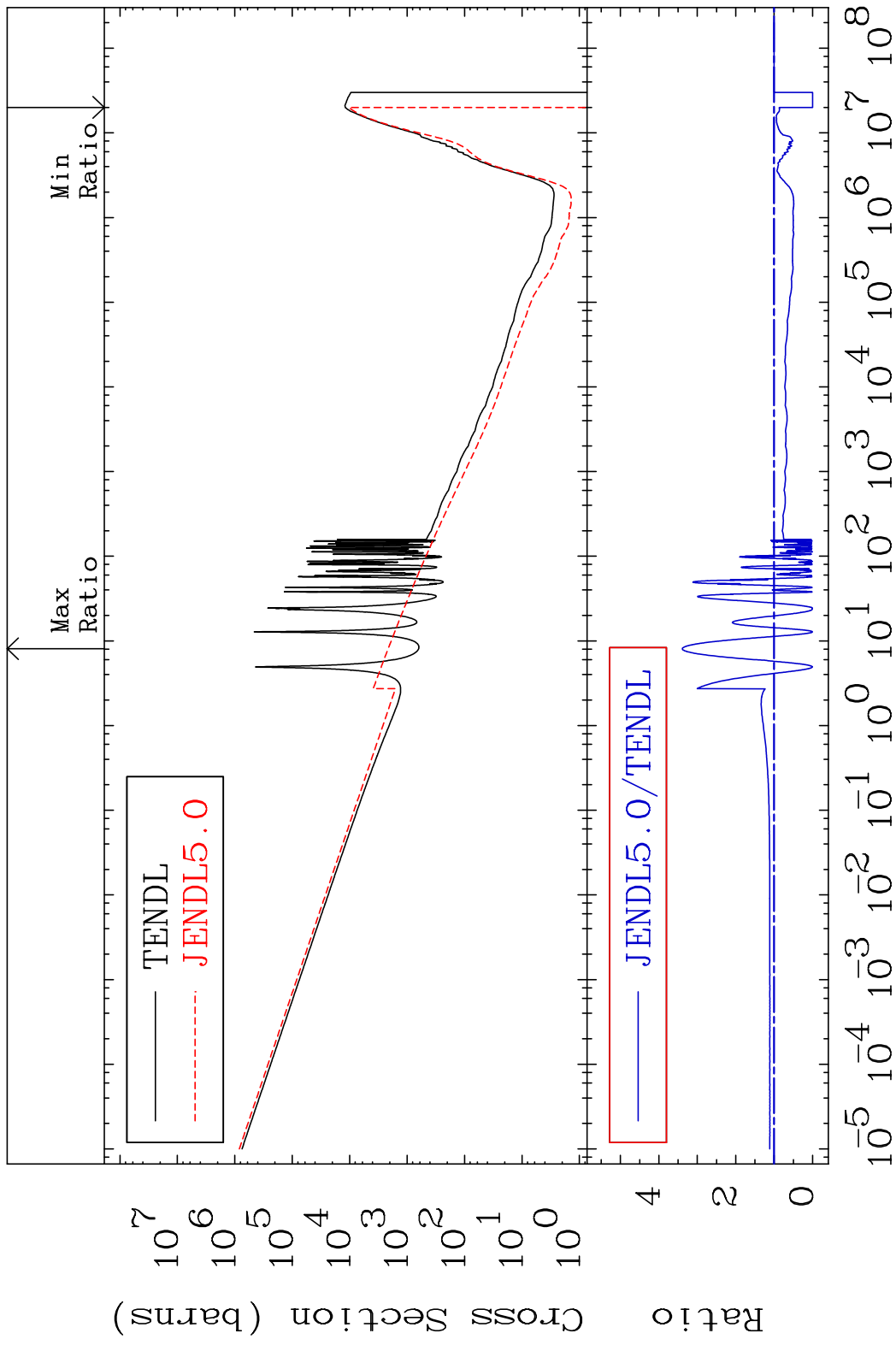
53-I -125

MAT 5319 Dpa inelastic (mt51-91) 53-I -125
 Cross Section -100.0 To 9999. %

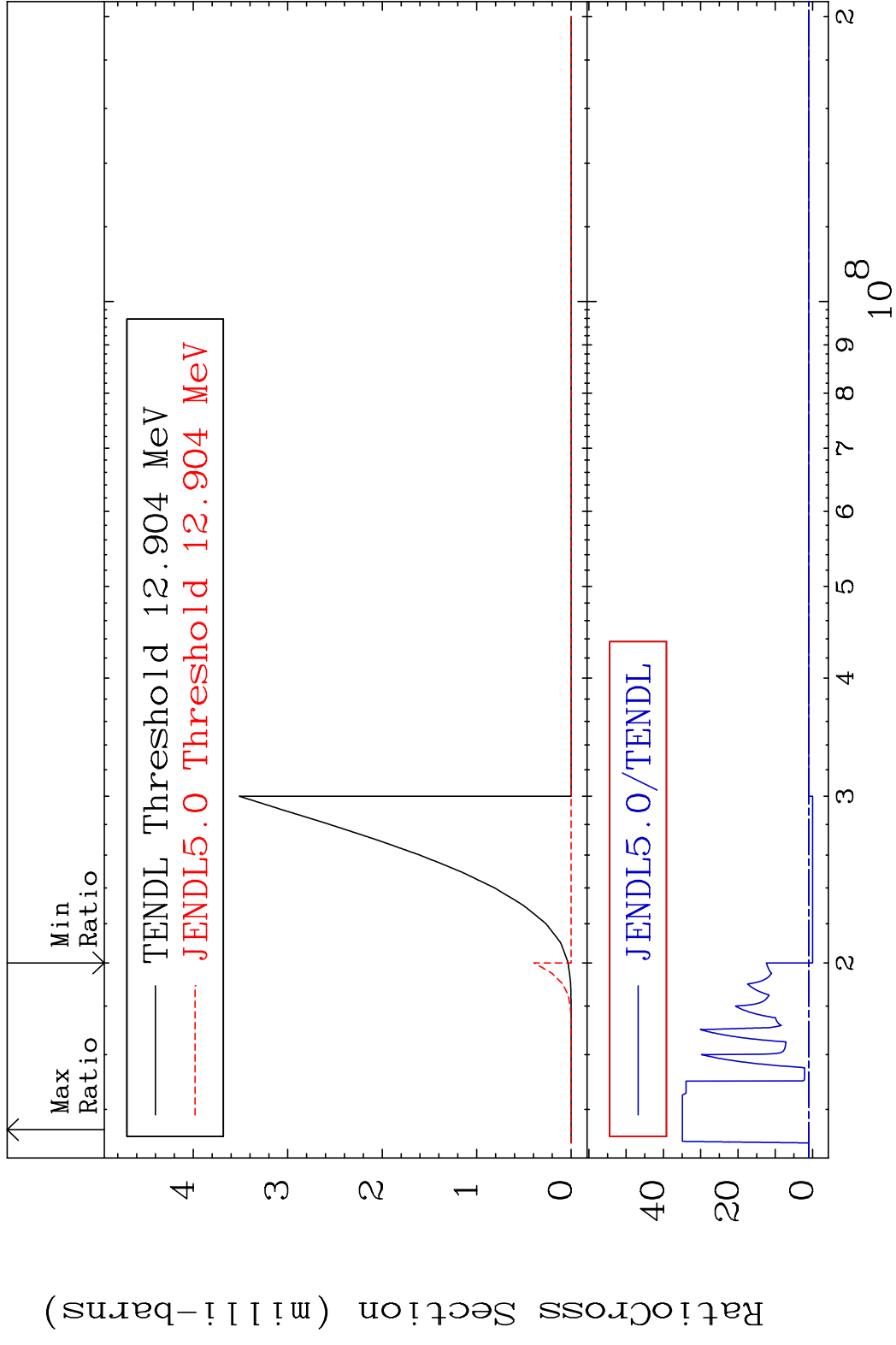


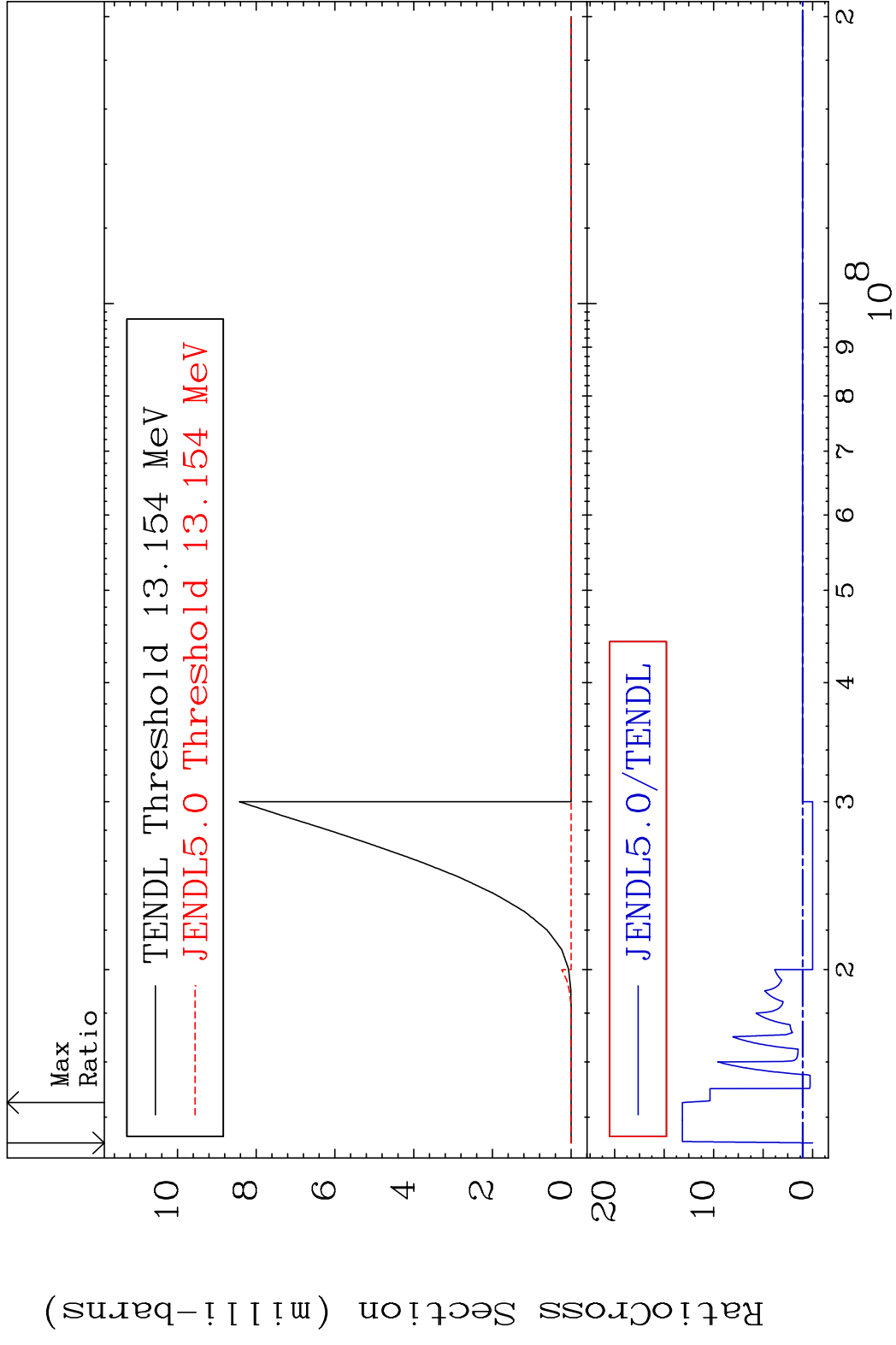
65 Incident Energy (eV) 53-I -125

MAT 5319 Dpa disappearance (mt102 -120) 53-I -125
 Cross Section -100.0 To 238.8 %

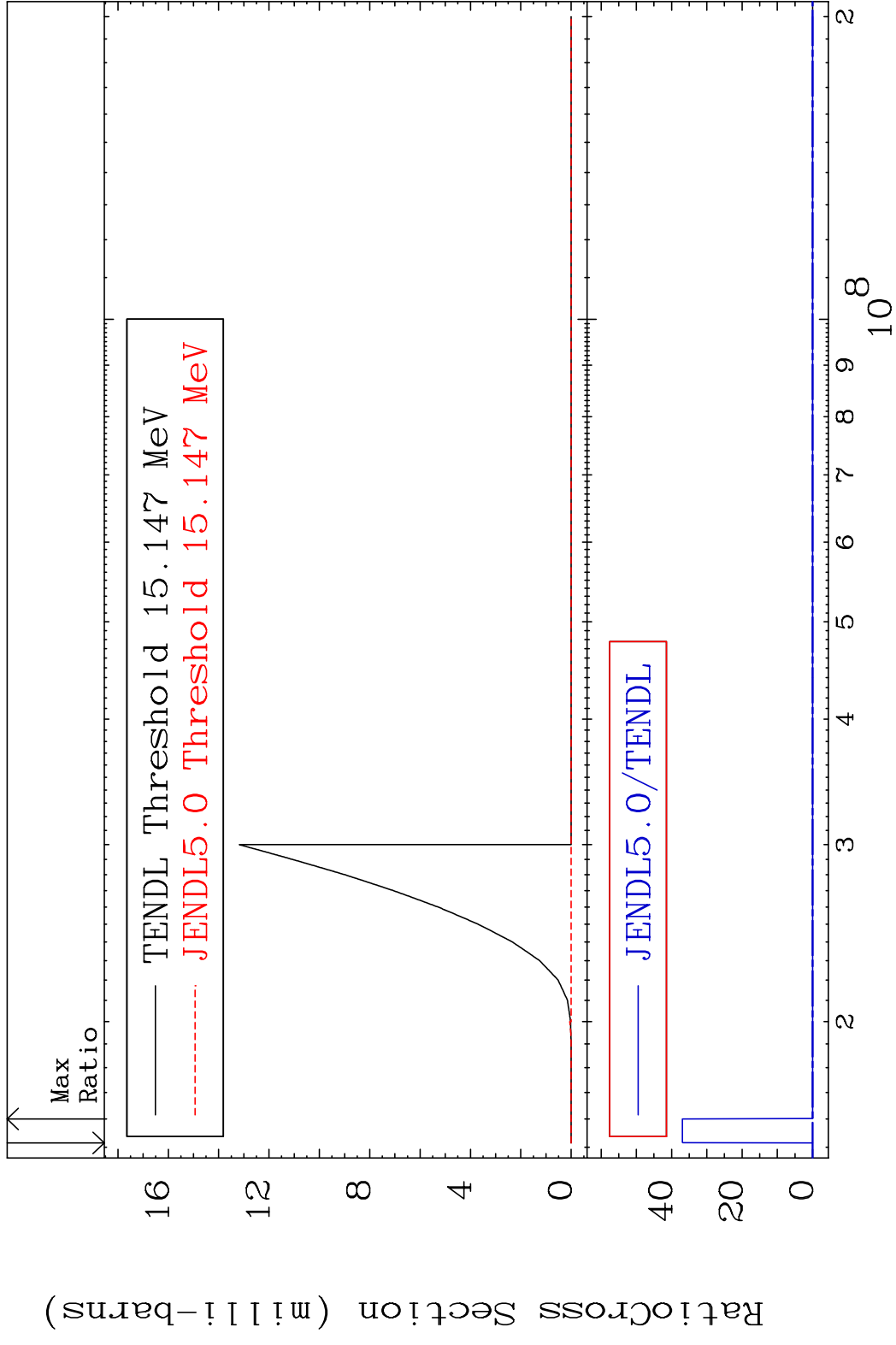


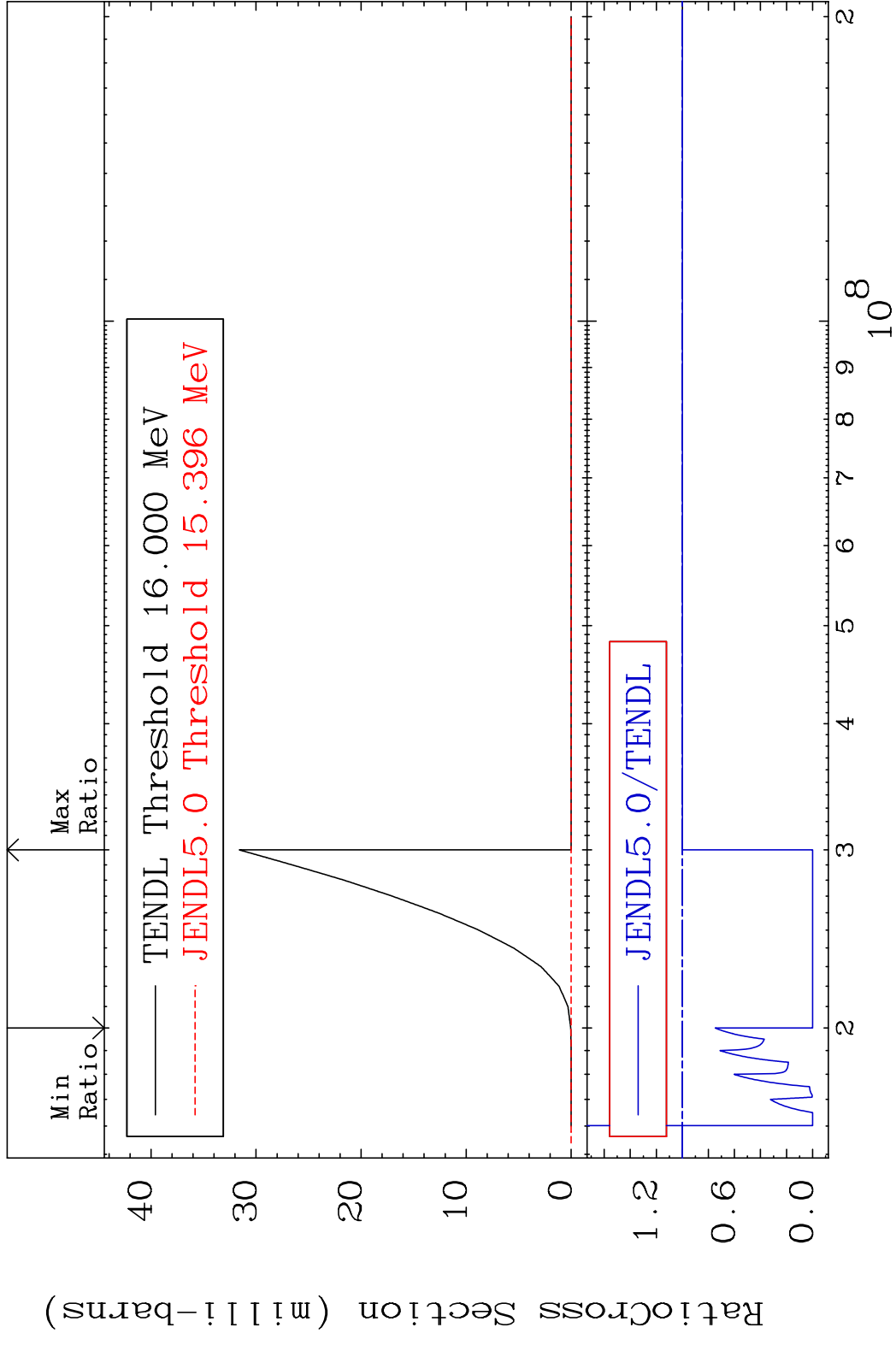
MAT 5319 (n, n') d:52-Te-123g 53-I -125
 Radionuclide Production Cross Section Ratio 3393. %



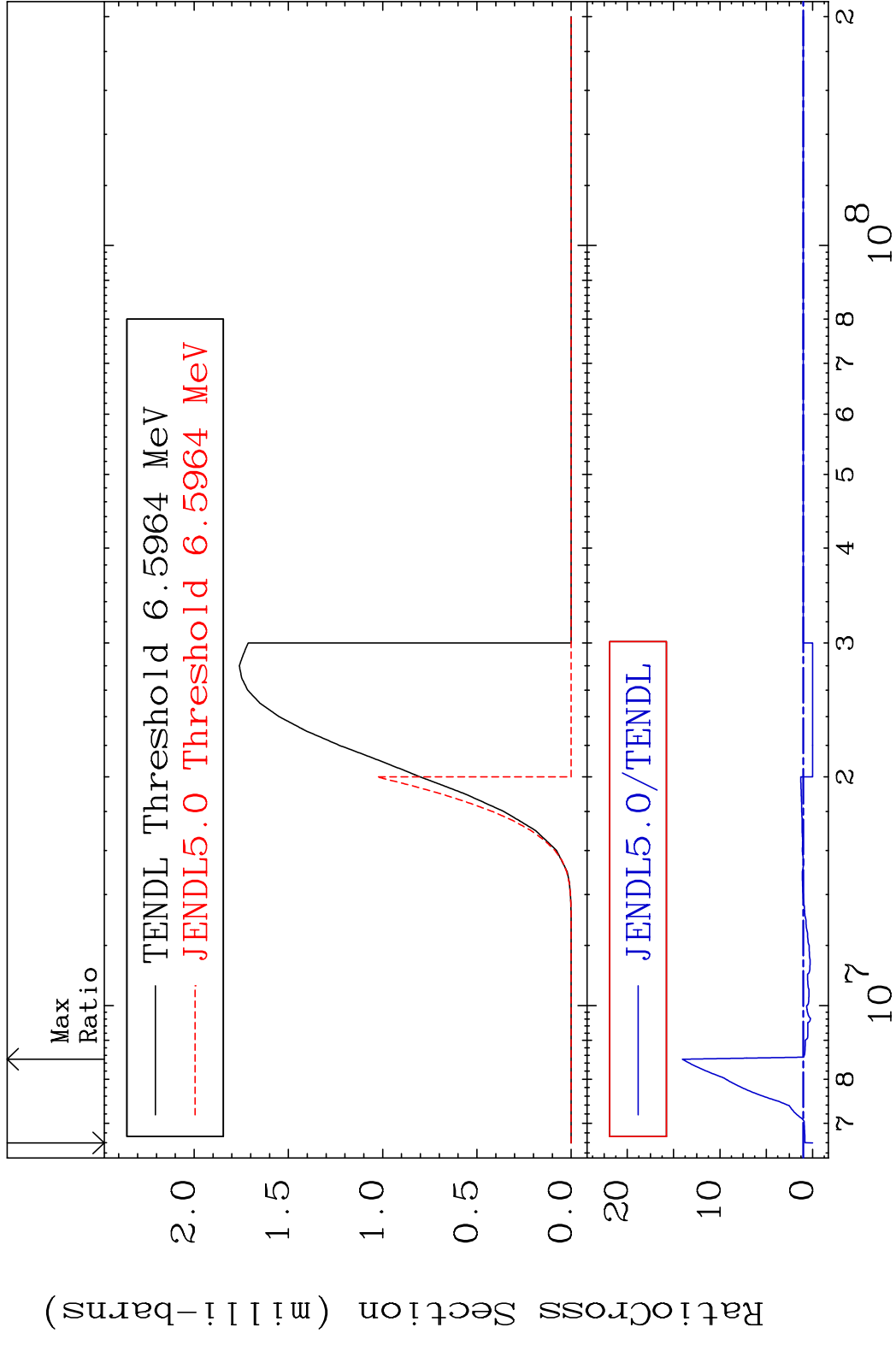


MAT 5319 (n,2n) p:52-Te-123g 53-I -125
 Radionuclide Production Cross Section Ratio 9999. %

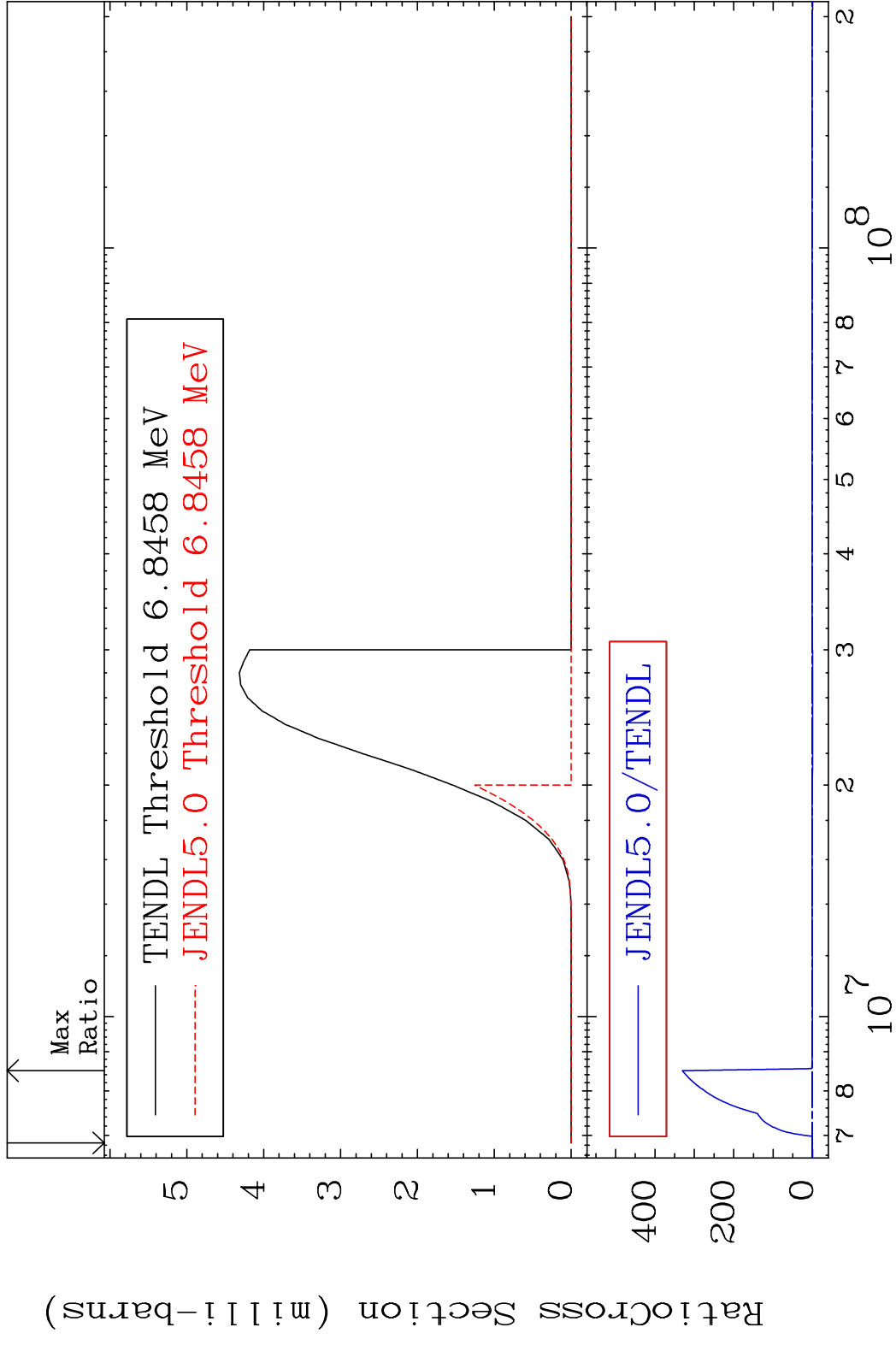




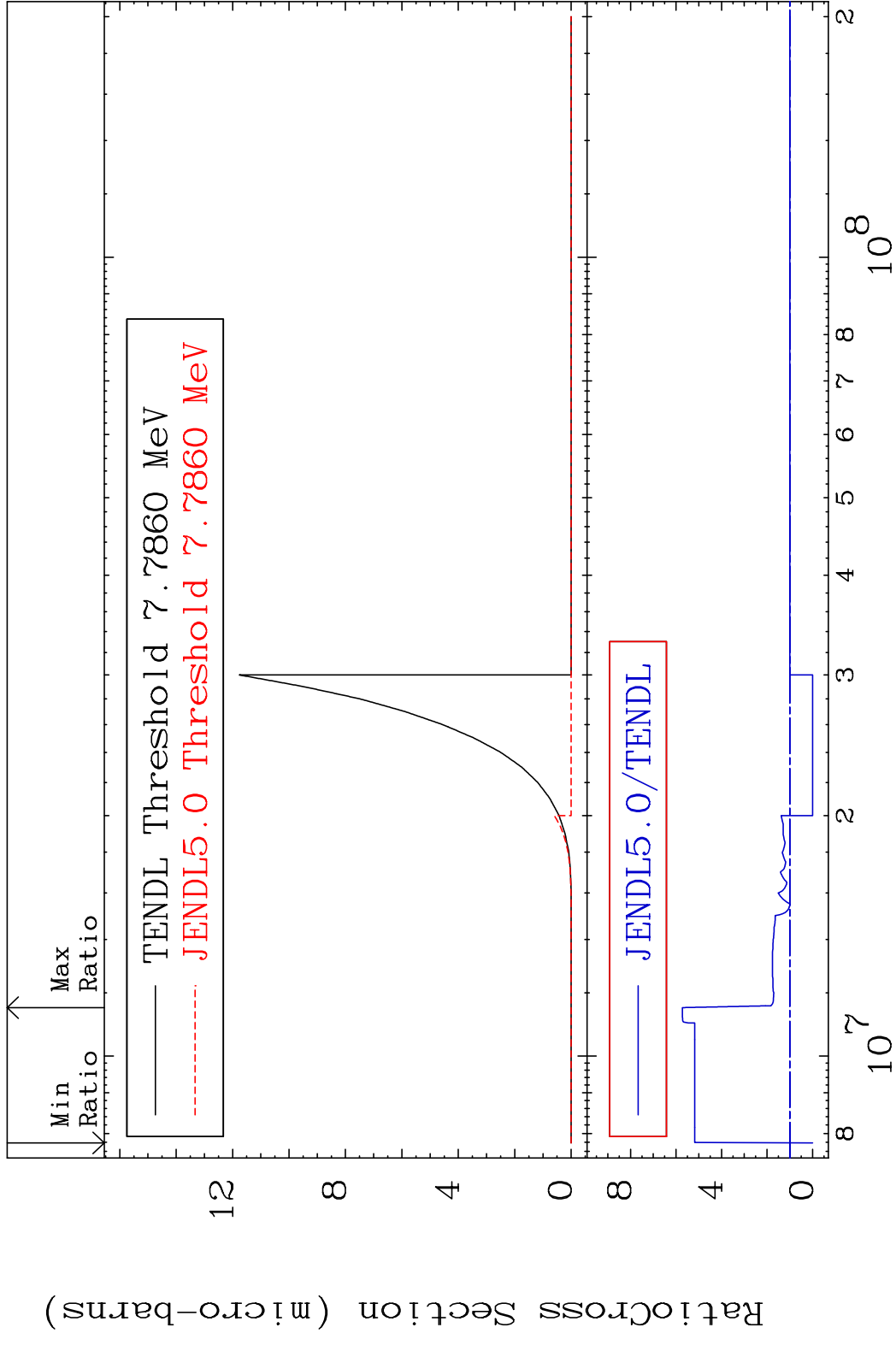
MAT 5319 (n,t):52-Te-123g 53-I -125
 Radionuclide Production Cross Section 1305. %



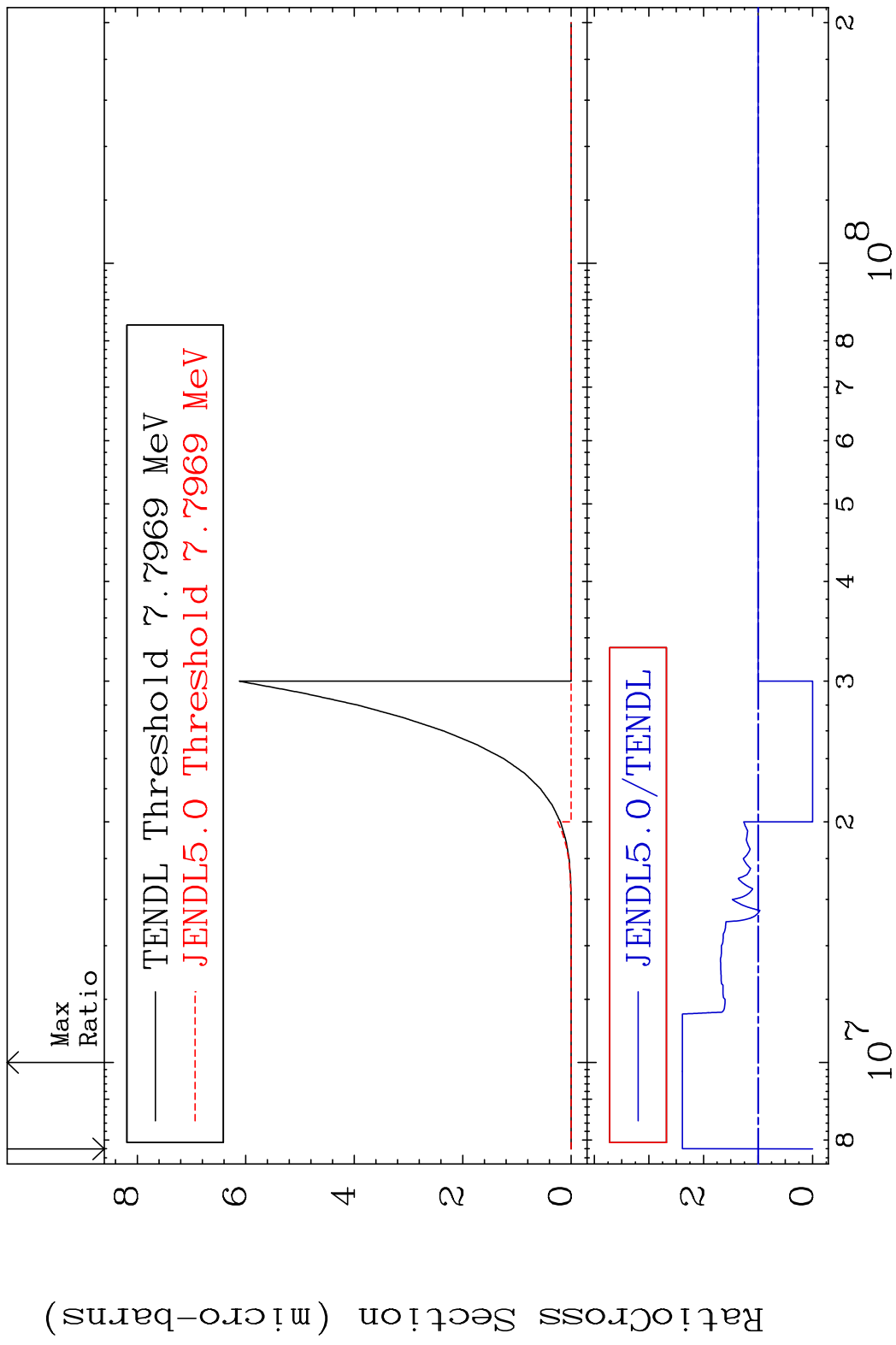
MAT 5319 (n, t):52-Te-123m2 53-I -125
 Radionuclide Production Cross Section 100.00 dth 9999. %



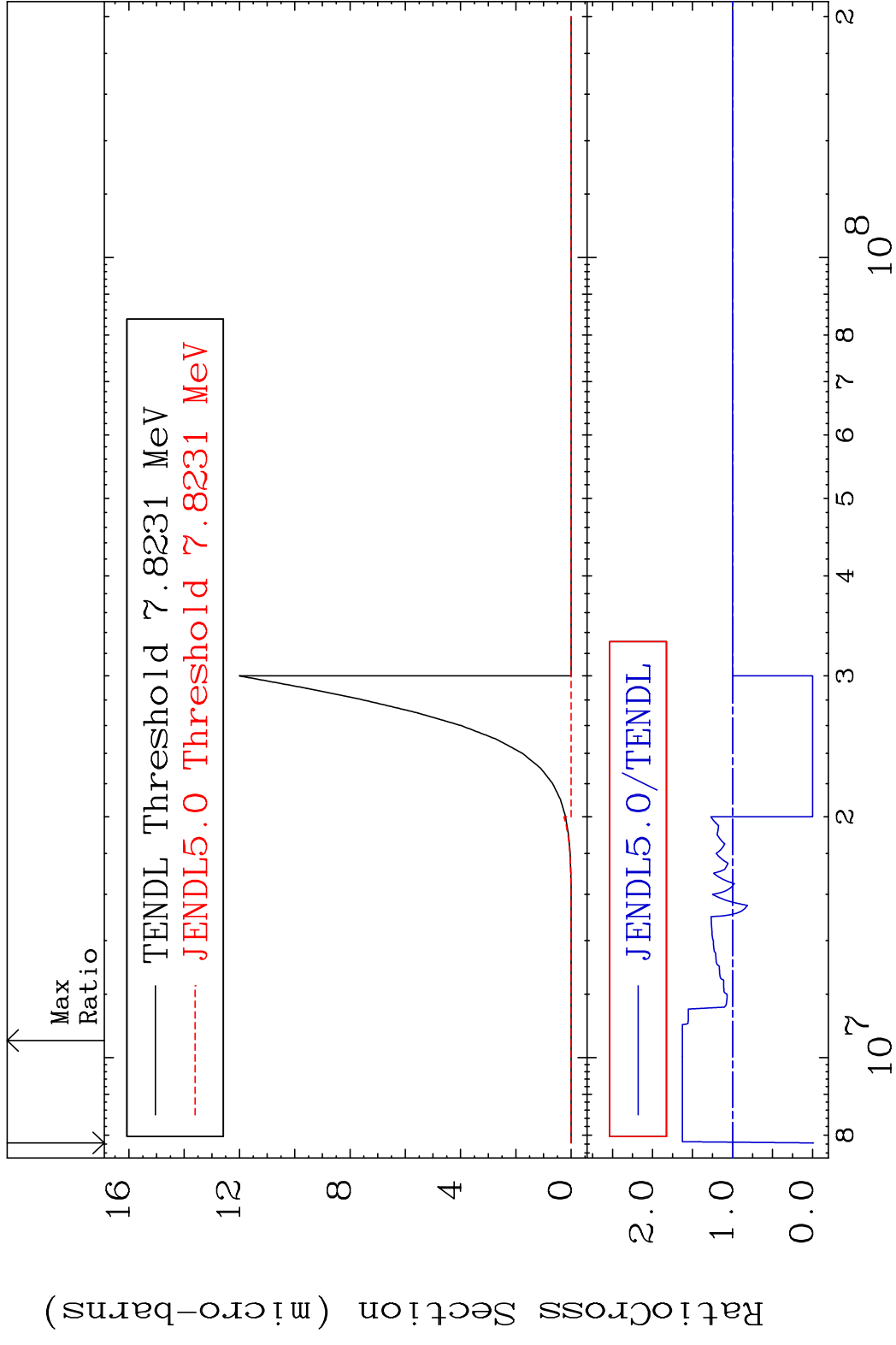
MAT 5319 (n,2p):51-Sb-124g 53-I -125
 Radionuclide Production Cross Section 180.0 dth 472.3 %



MAT 5319 (n,2p):51-Sb-124m1 53-I -125
 Radionuclide Production Cross Section 138.0 mb 138.8 %



MAT 5319 (n, 2p):51-Sb-124m2 53-I -125
 Radionuclide Production Cross Section 180.01 dth 62.71 %



75 Incident Energy (eV) 53-I -125