

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

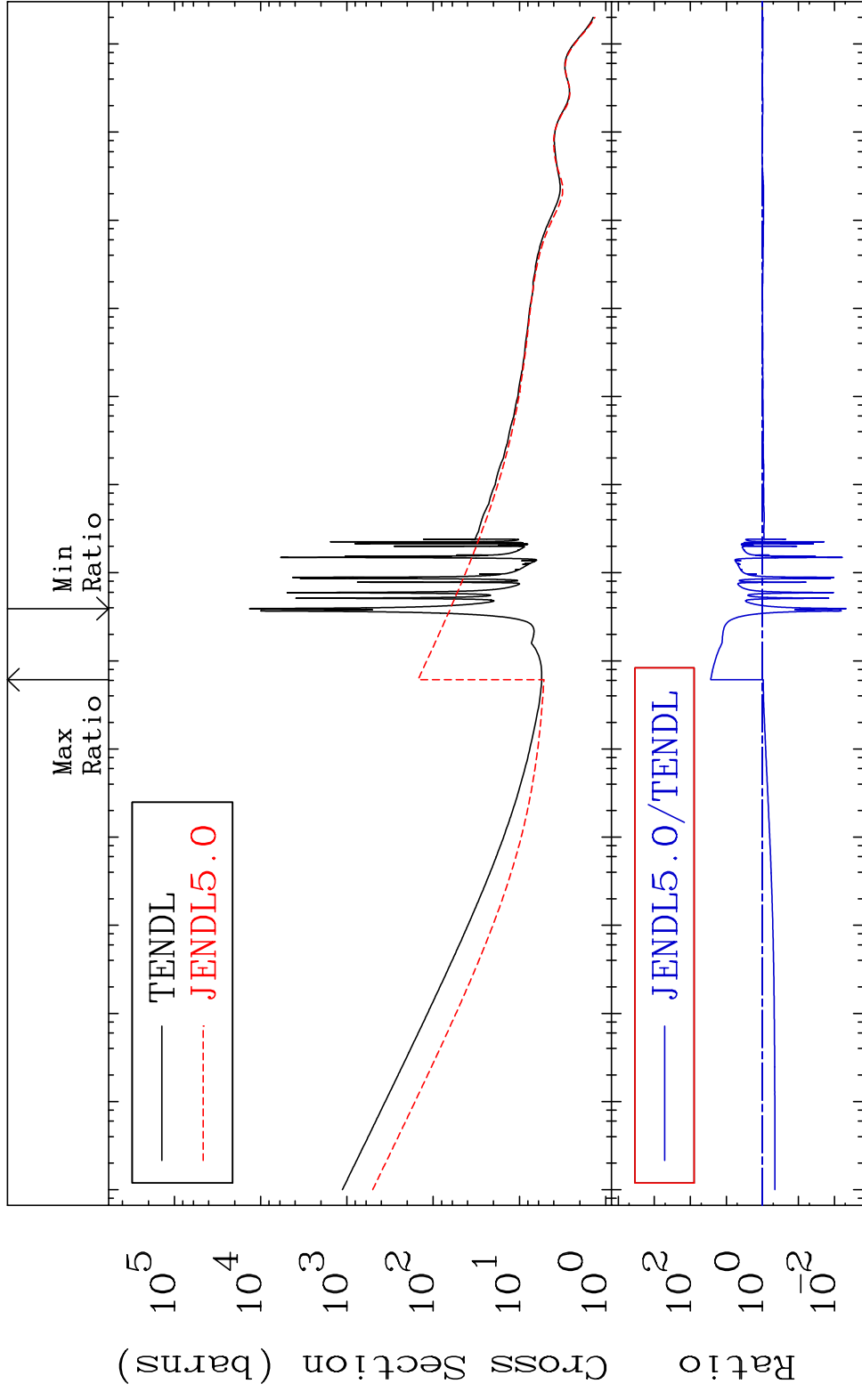
Press Mouse Button to Start

MAT 3519

35-Br-77

Total

Cross Section -99.53 To 2612. %



1

Incident Energy (eV)

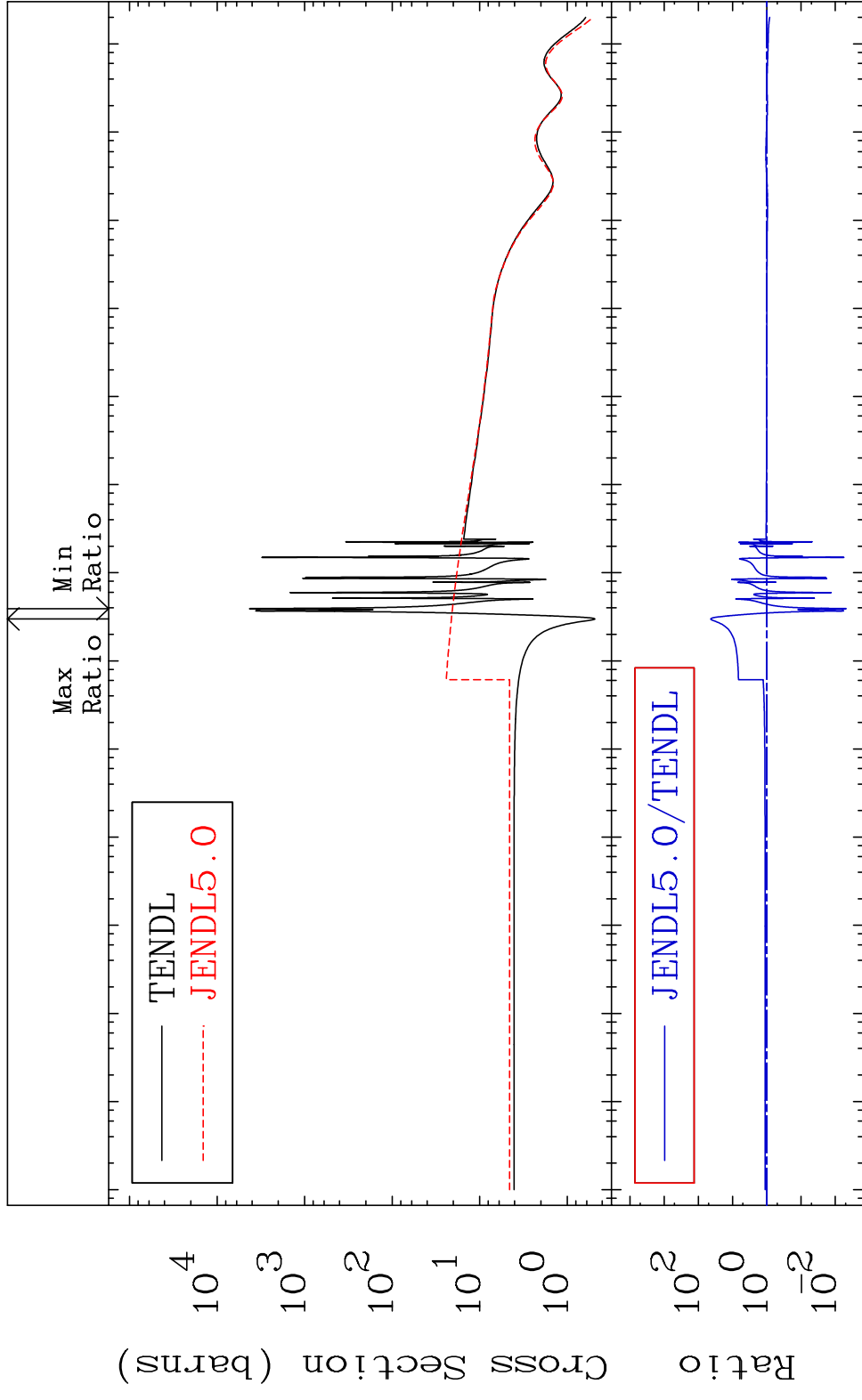
35-Br-77

MAT 3519

Elastic

35-Br-77

Cross Section -99.52 To 4263. %



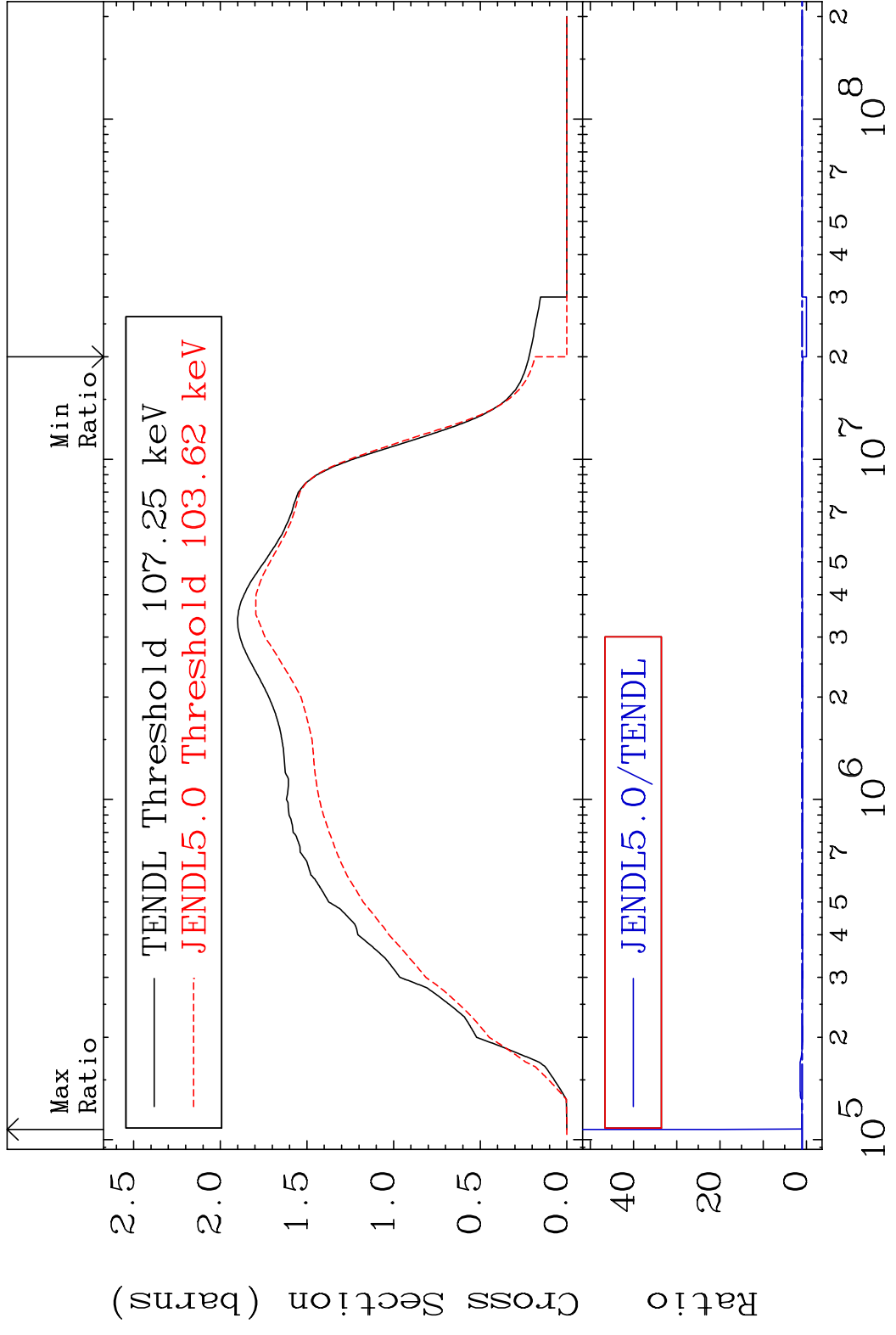
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

2

Incident Energy (eV)

35-Br-77

MAT 3519 Inelastic Cross Section -100.0 To 2889. % 35-Br-77



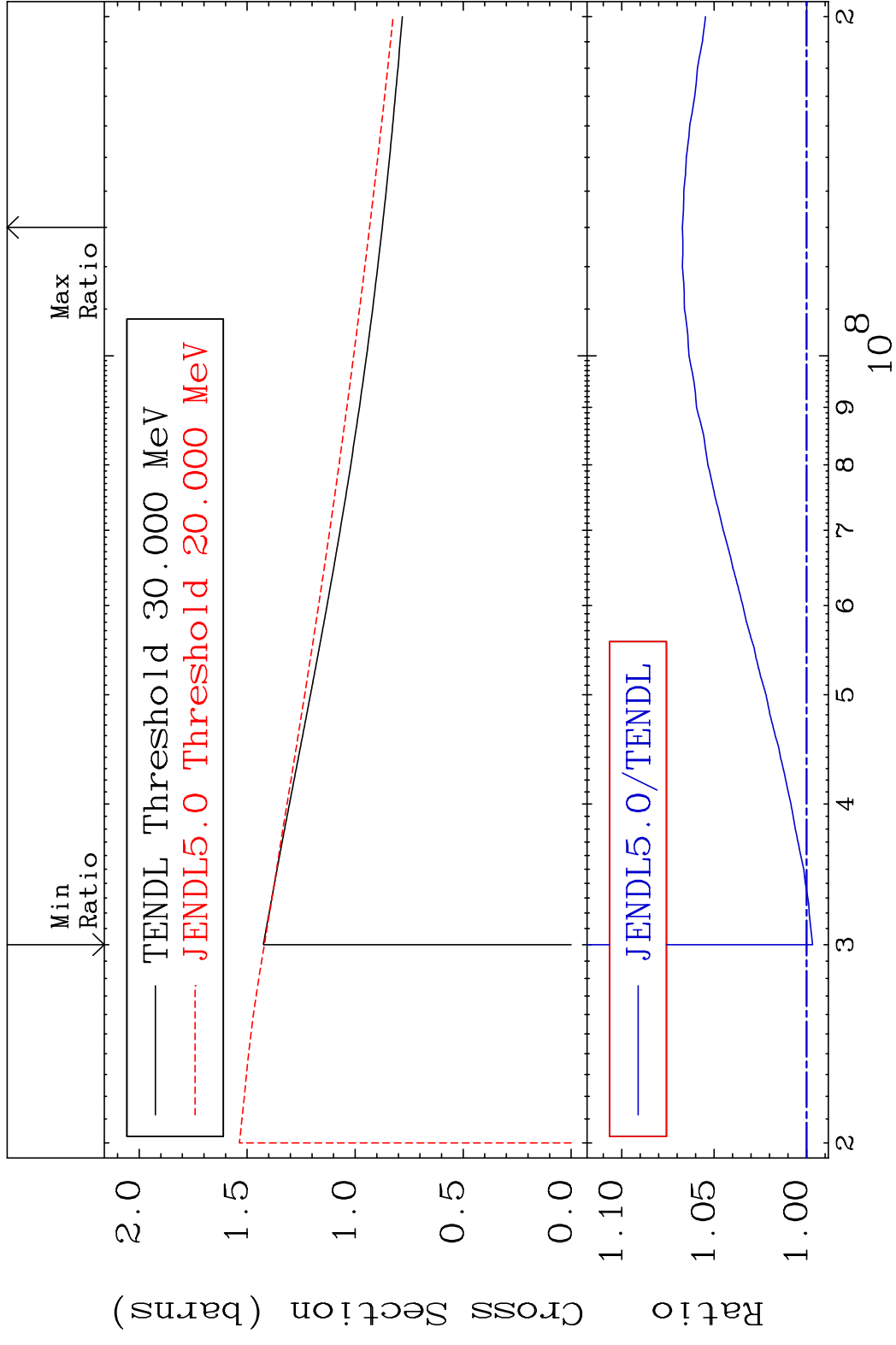
3 Incident Energy (eV) 35-Br-77

MAT 3519

(n, remainder)

35-Br-77

Cross Section -0.324 To 6.722 %



4

Incident Energy (eV)

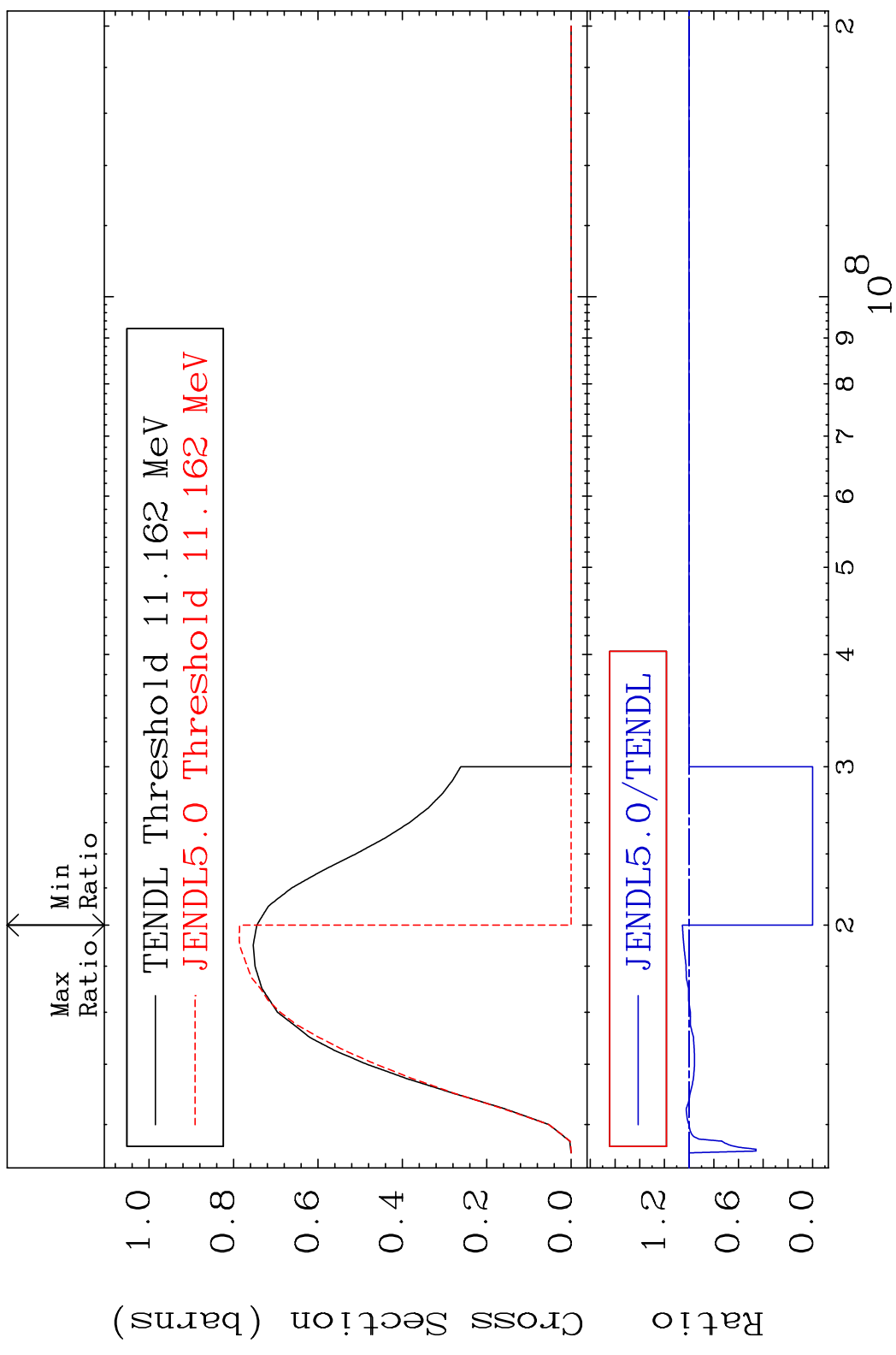
35-Br-77

MAT 3519

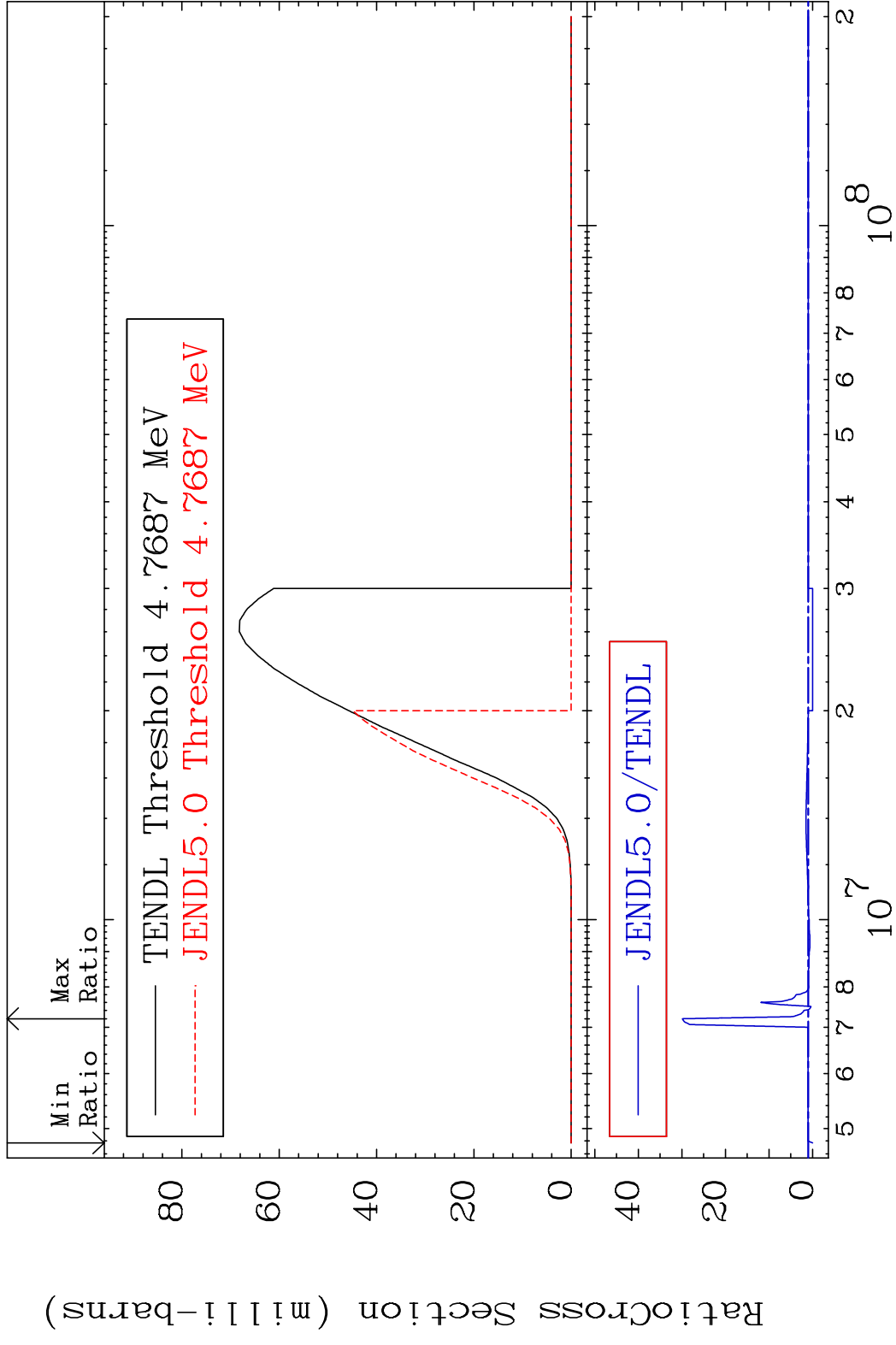
(n,2n)

35-Br-77

Cross Section -100.0 To 5.466 %

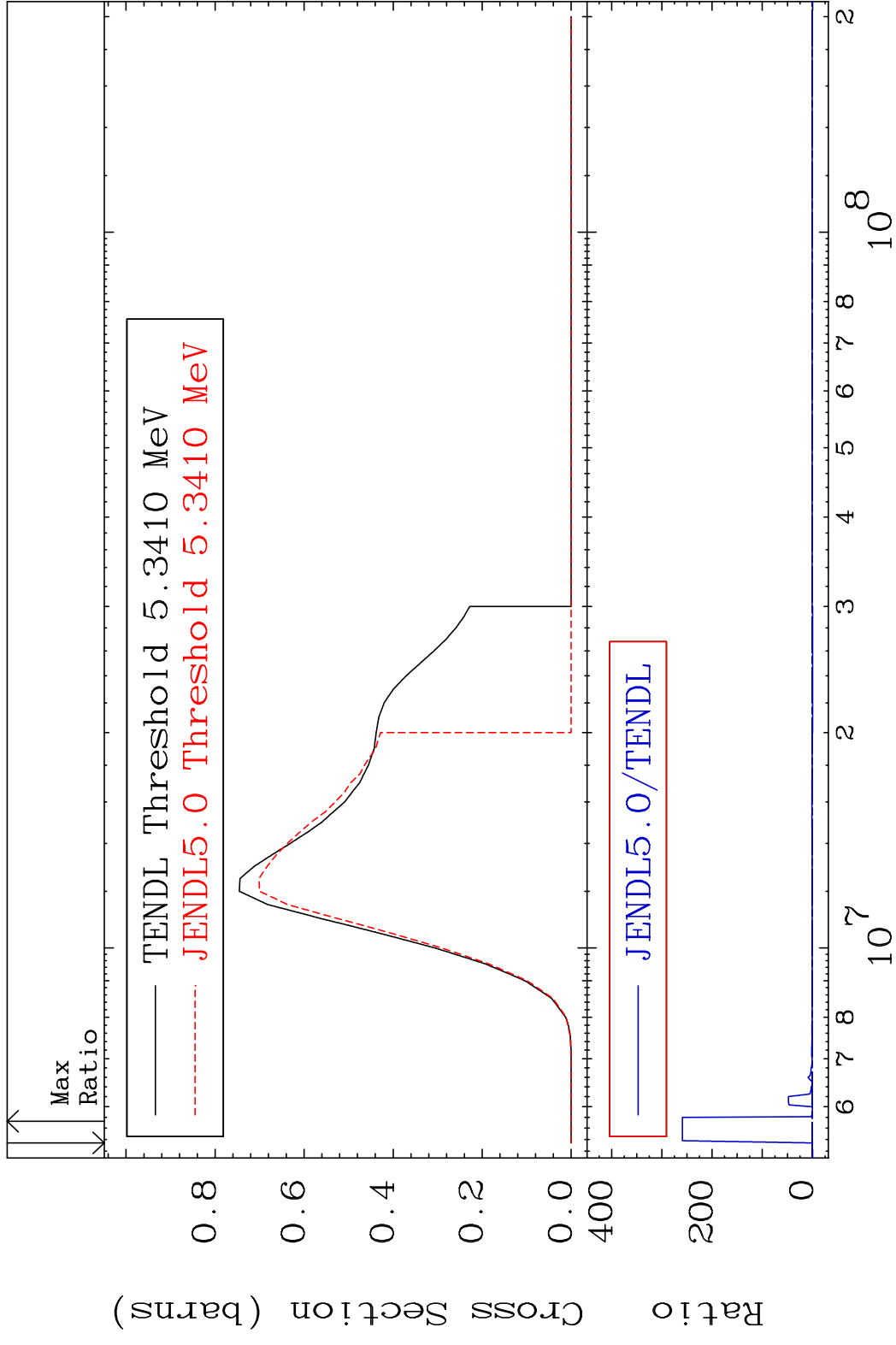


MAT 3519 (n, n') α 35-Br-77
 Cross Section -100.0 To 2889. %

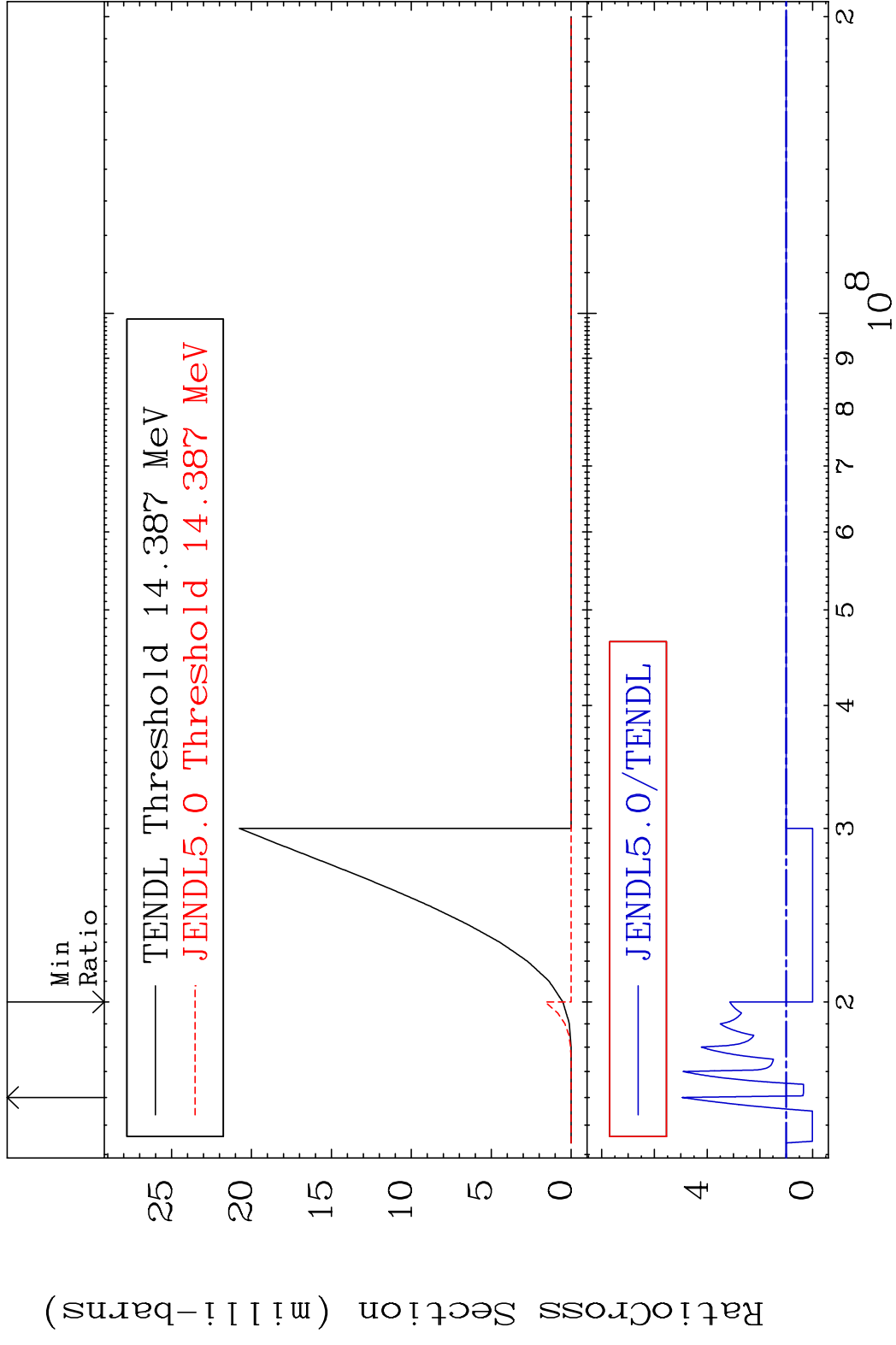


6 Incident Energy (eV) 35-Br-77

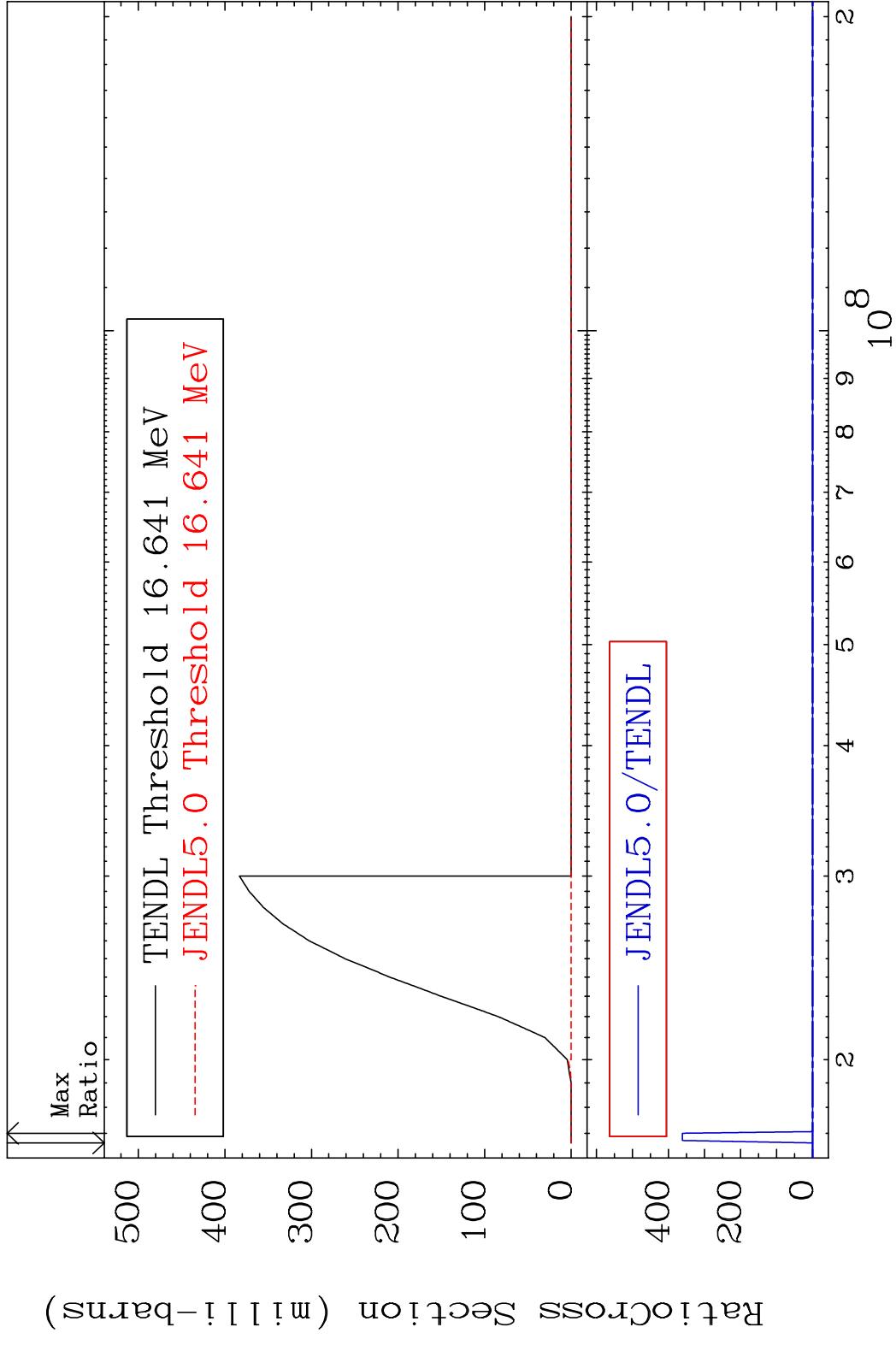
MAT 3519 (n, n') p 35-Br-77
 Cross Section -100.0 To 9999. %



MAT 3519 (n, n') d 35-Br-77
 Cross Section -100.0 To 394.0 %



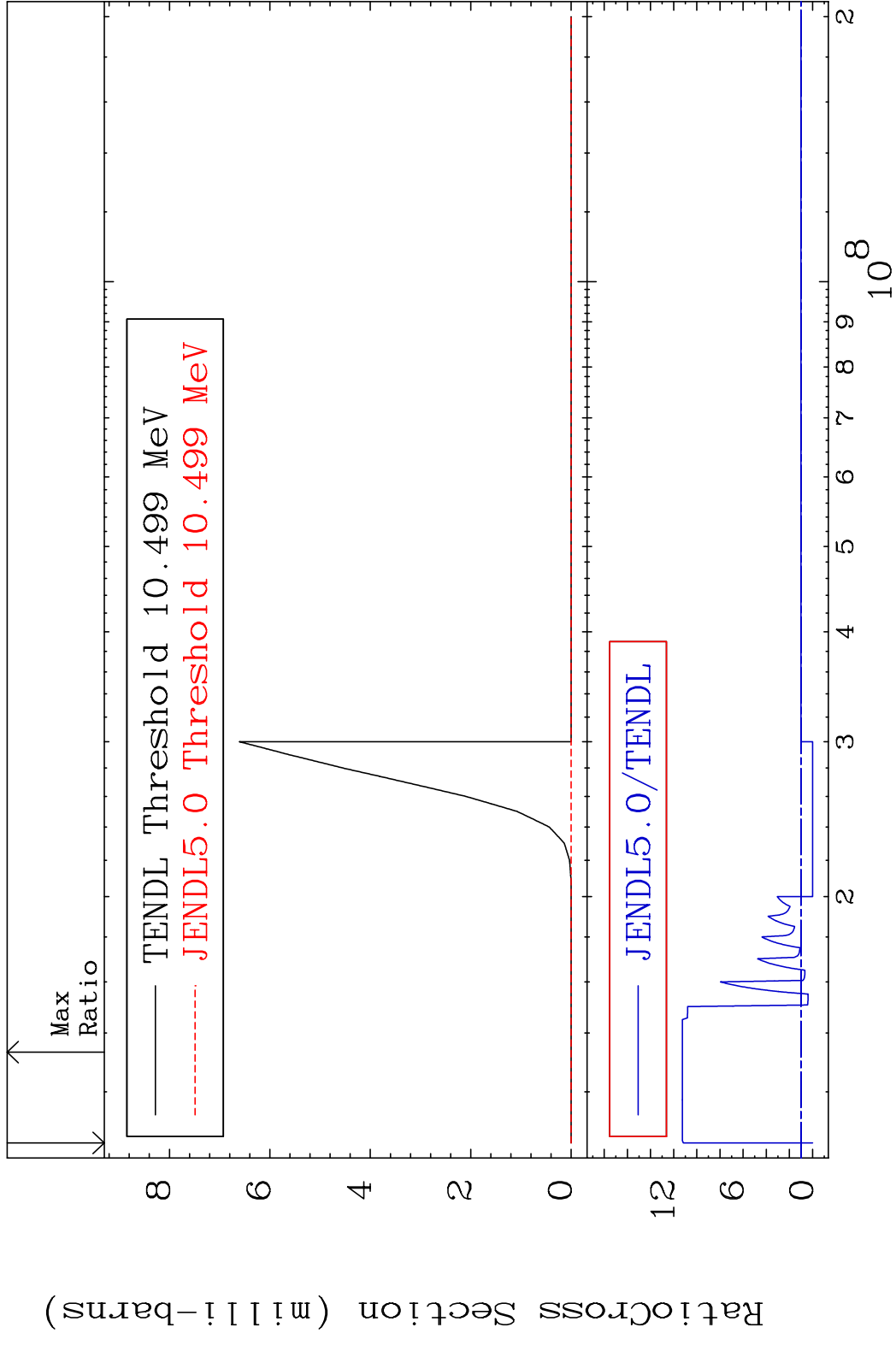
MAT 3519 (n,2n) p 35-Br-77
 Cross Section -100.0 To 9999. %



MAT 3519

(n,n') p α 35-Br-77

Cross Section -100.0 To 1025. %

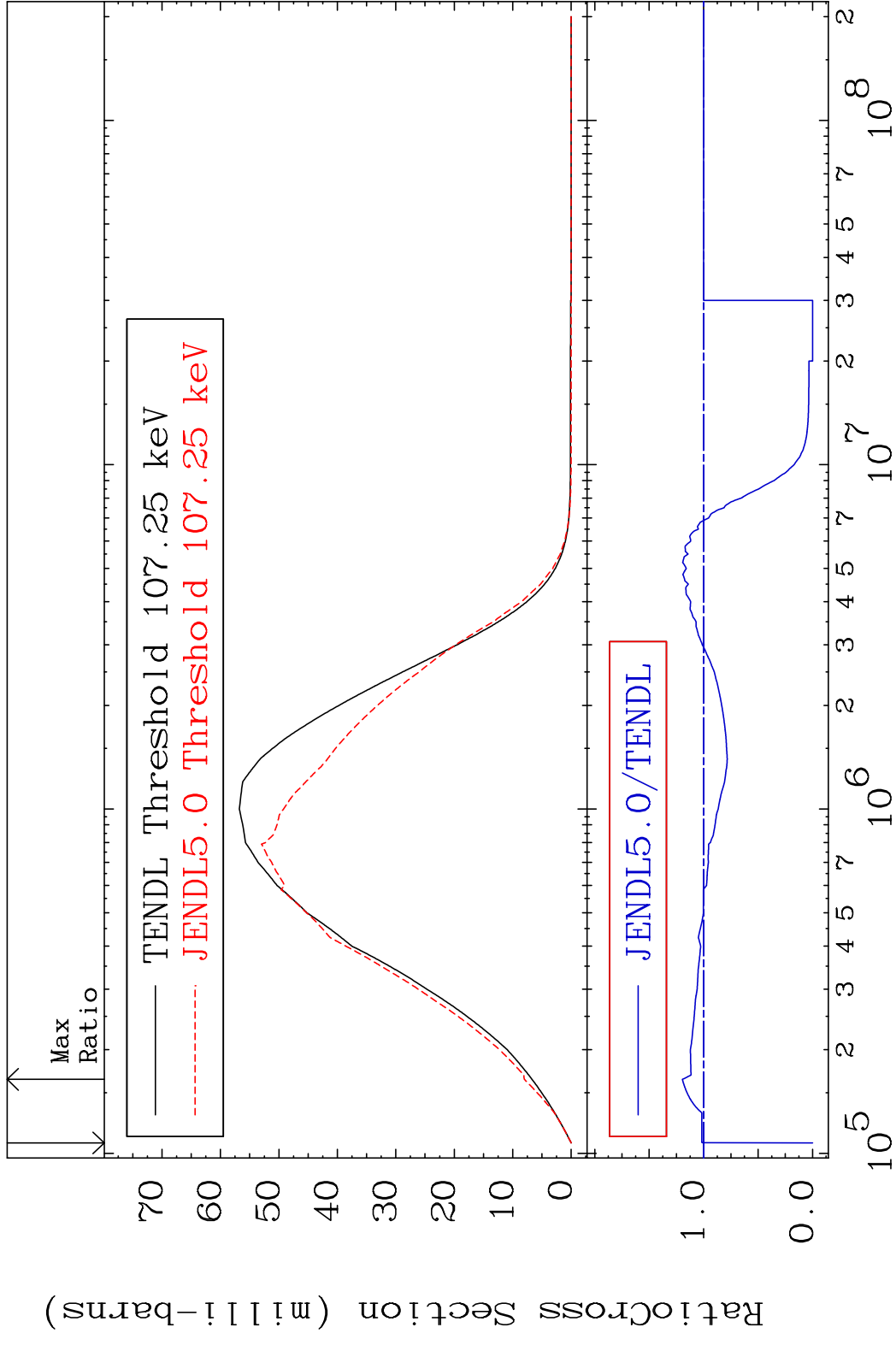


10

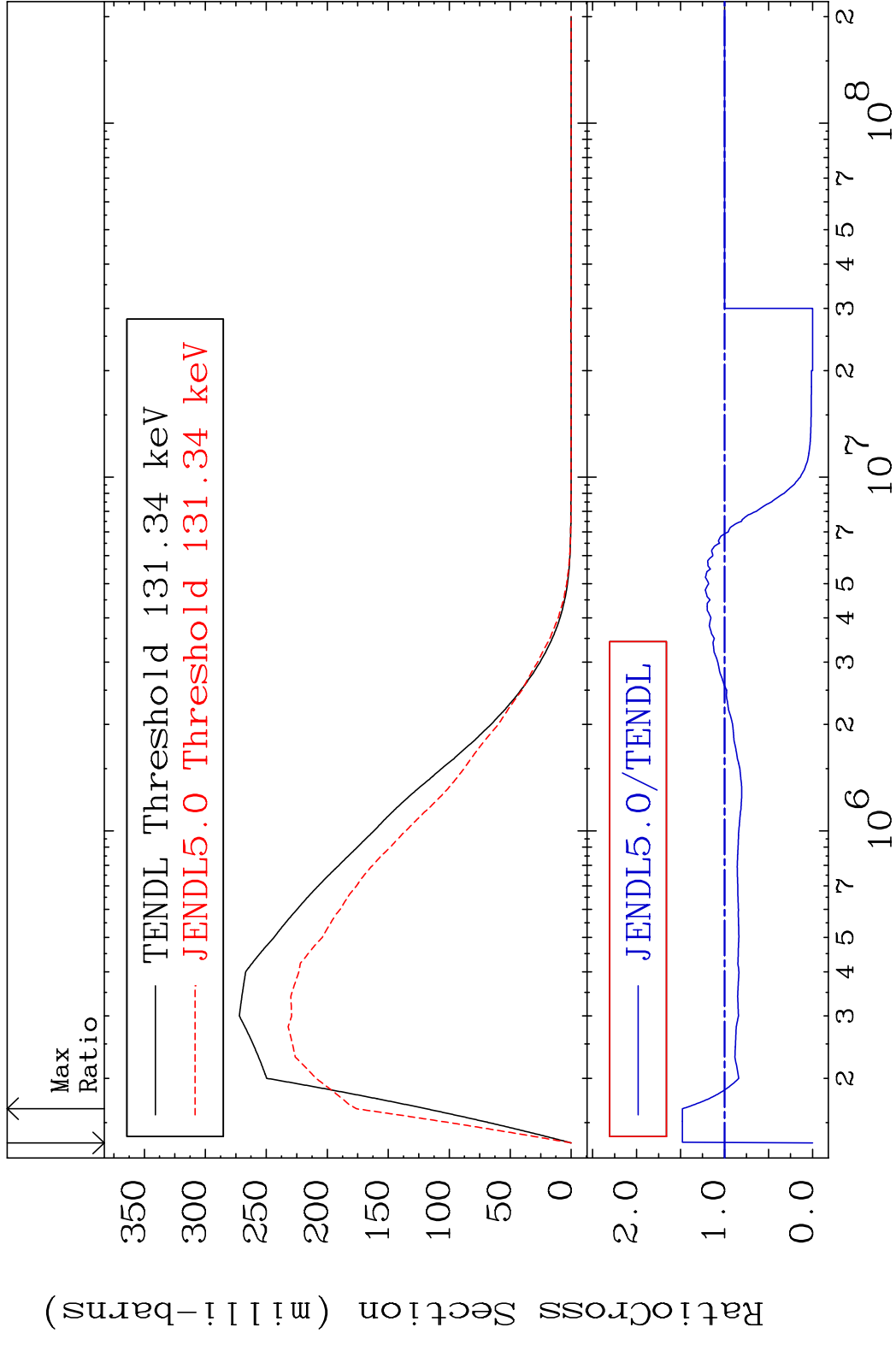
Incident Energy (eV)

35-Br-77

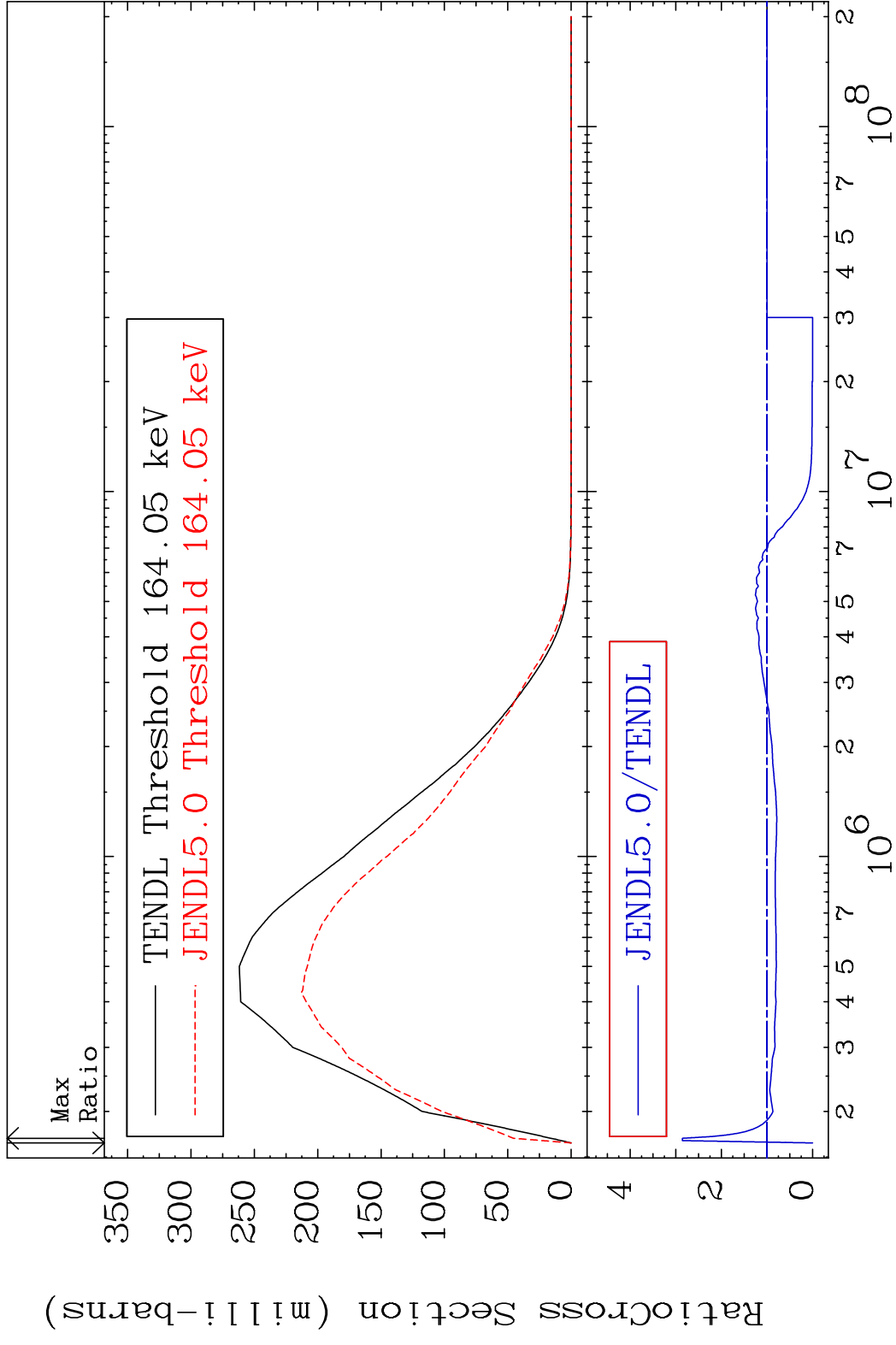
MAT 3519 MT= 51 (n,n') Level 35-Br-77
 Cross Section -100.0 To 19.56 %



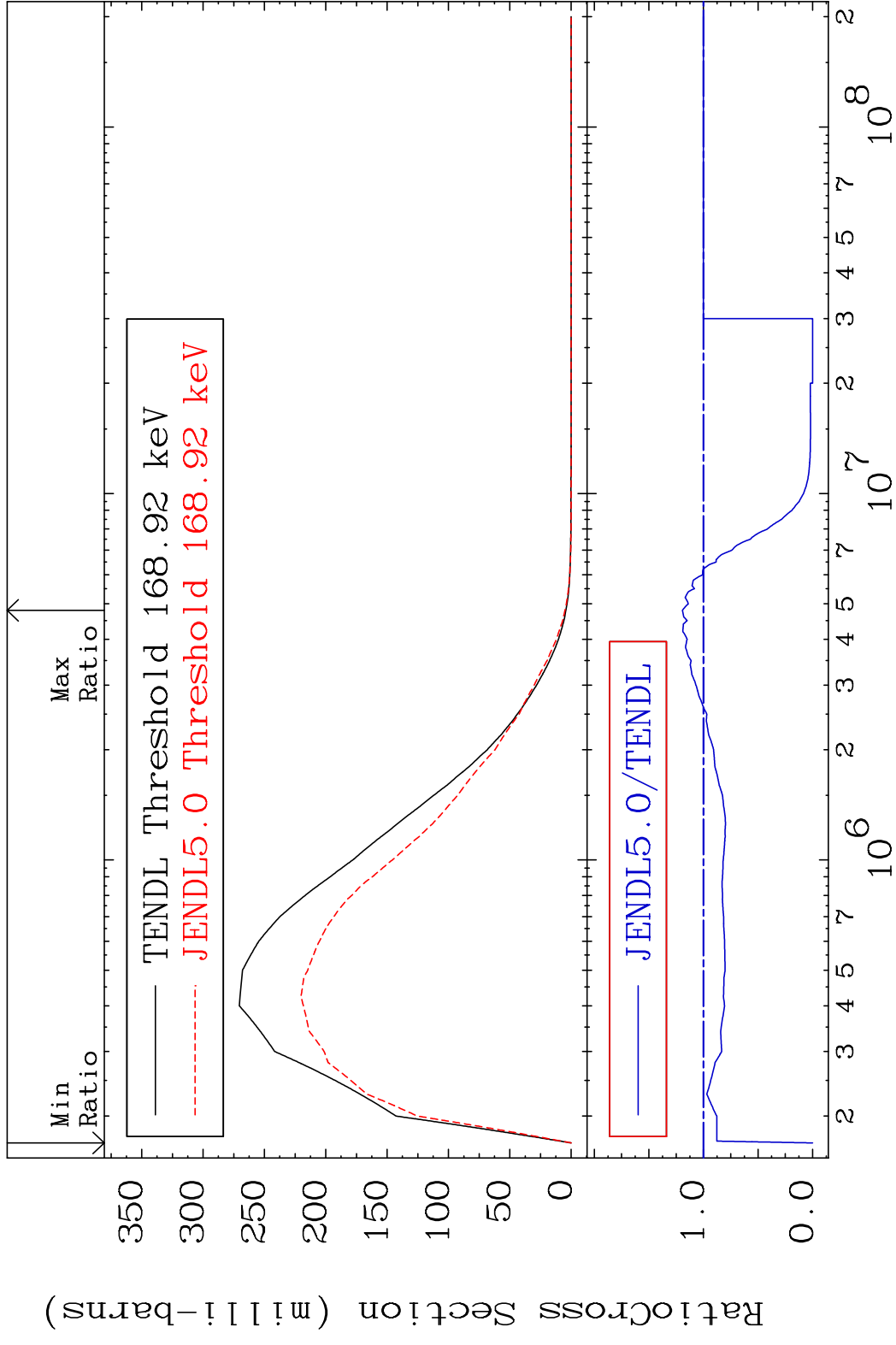
MAT 3519 MT= 52 (n,n') Level 35-Br-77
 Cross Section -100.0 To 47.97 %



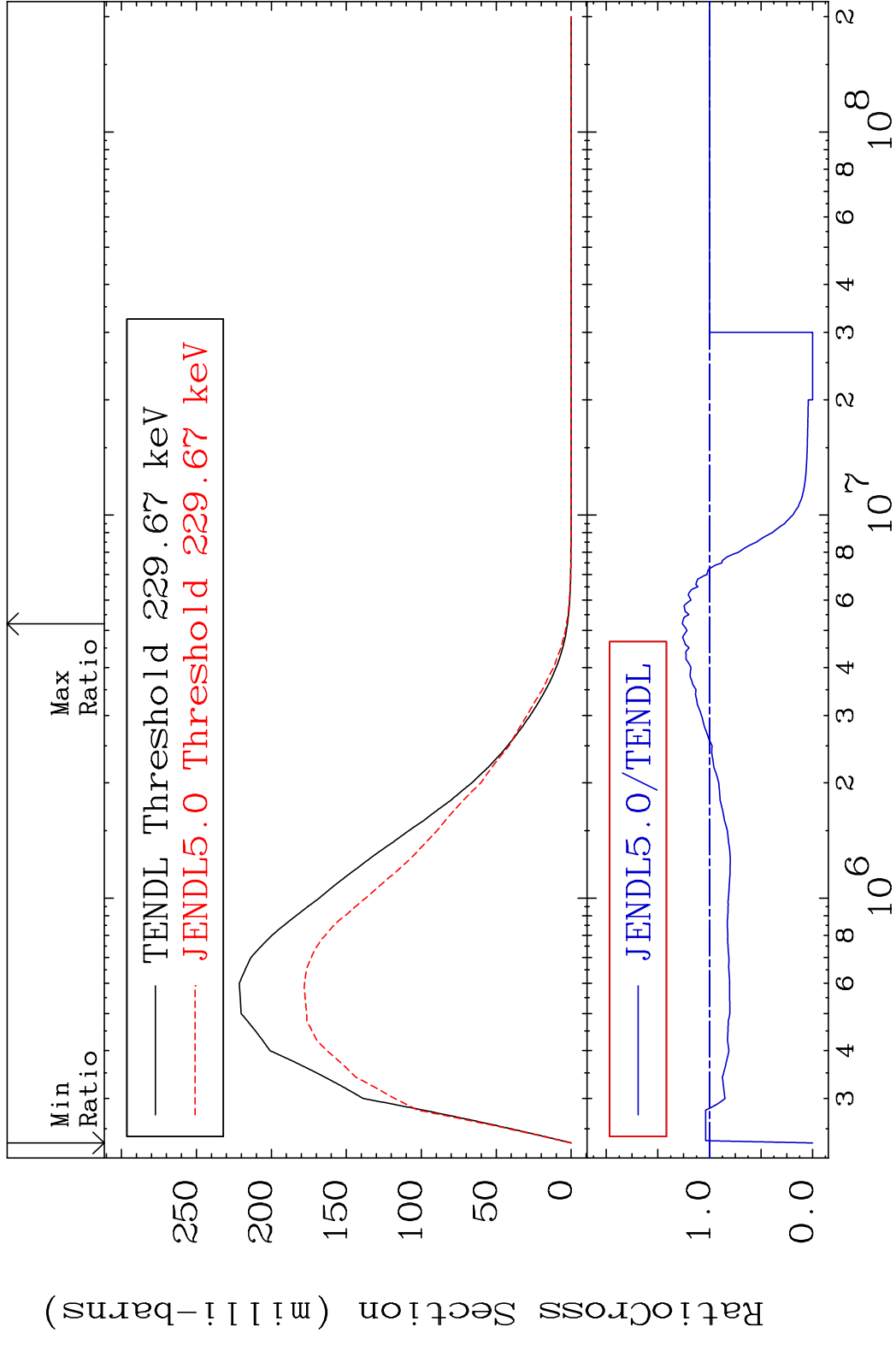
MAT 3519 MT= 53 (n, n') Level 35-Br-77
 Cross Section -100.0 To 185.6 %



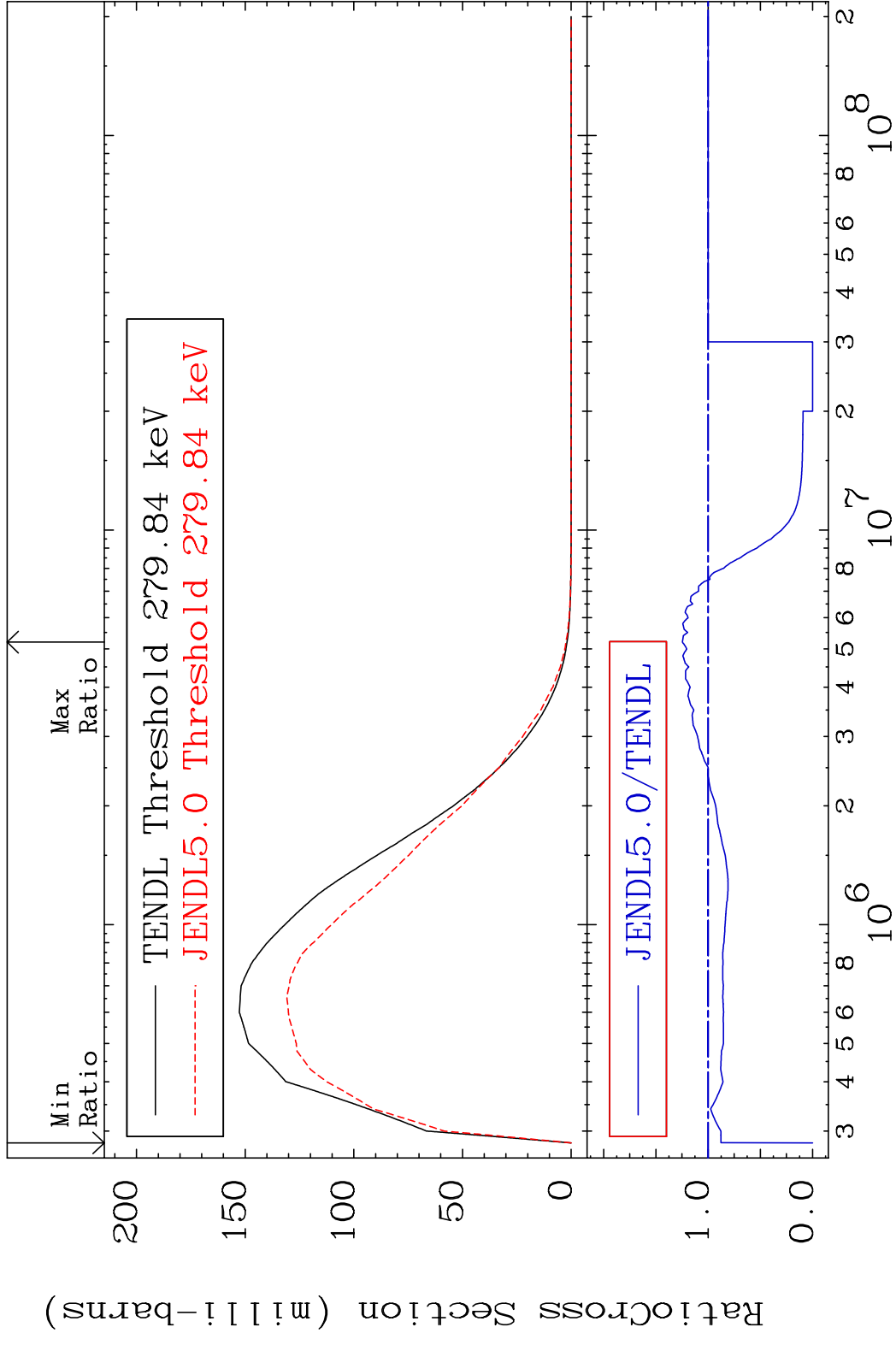
MAT 3519 MT= 54 (n, n') Level 35-Br-77
 Cross Section -100.0 To 19.32 %



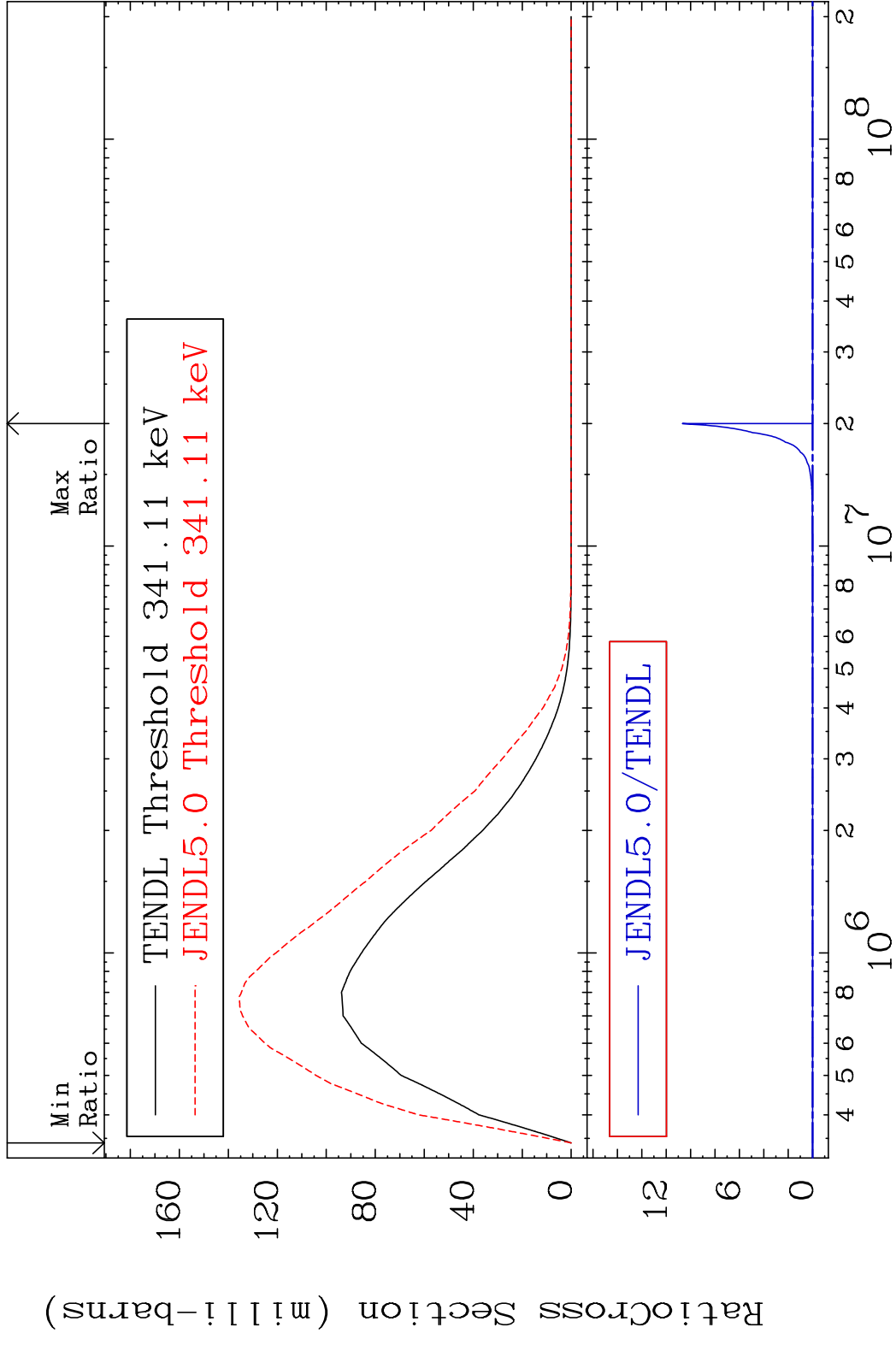
MAT 3519 MT= 55 (n, n') Level 35-Br-77
 Cross Section -100.0 To 26.25 %



MAT 3519 MT= 56 (n,n') Level 35-Br-77
 Cross Section -100.0 To 24.64 %

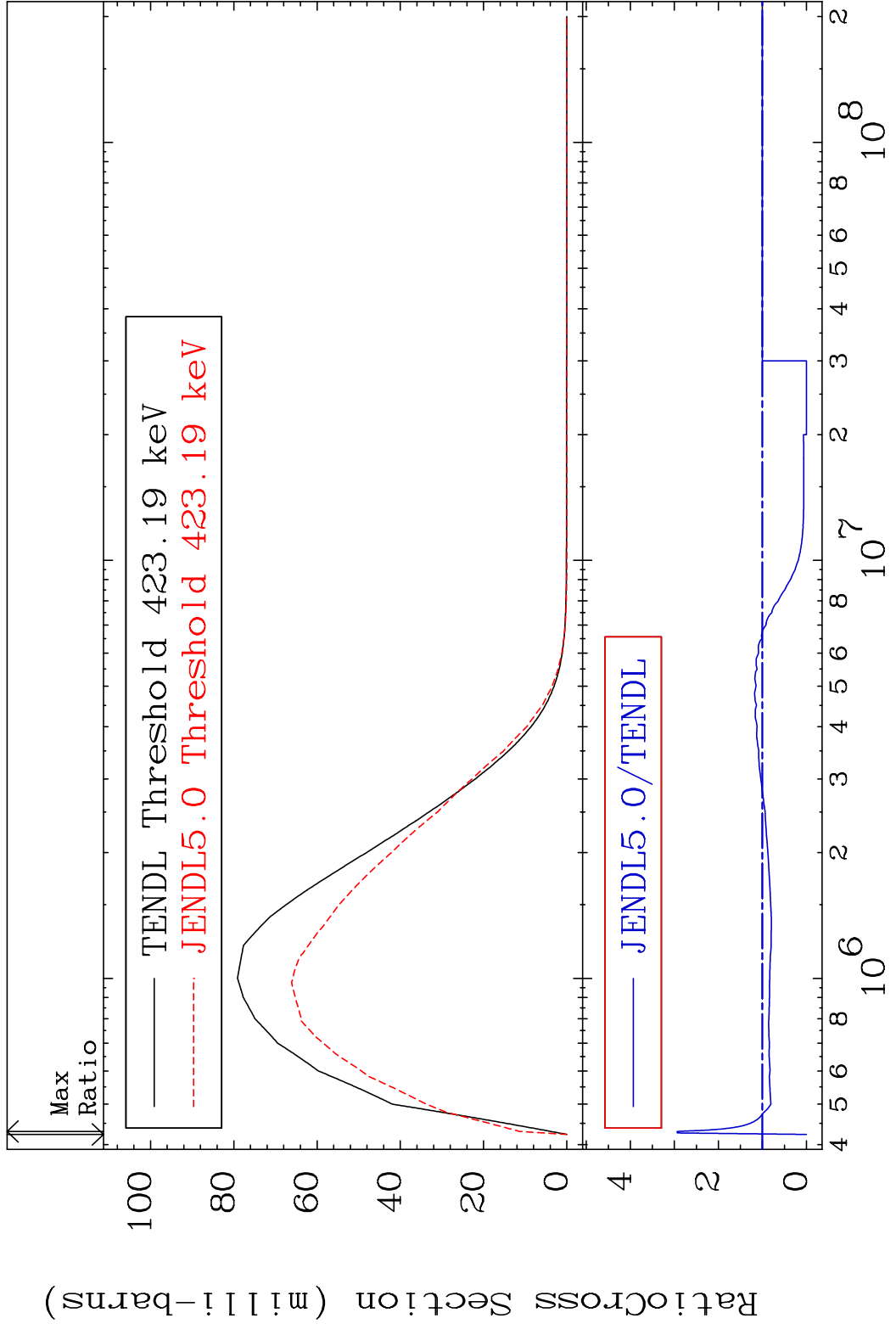


MAT 3519 MT= 57 (n, n') Level 35-Br-77
 Cross Section -100.0 To 9999. %

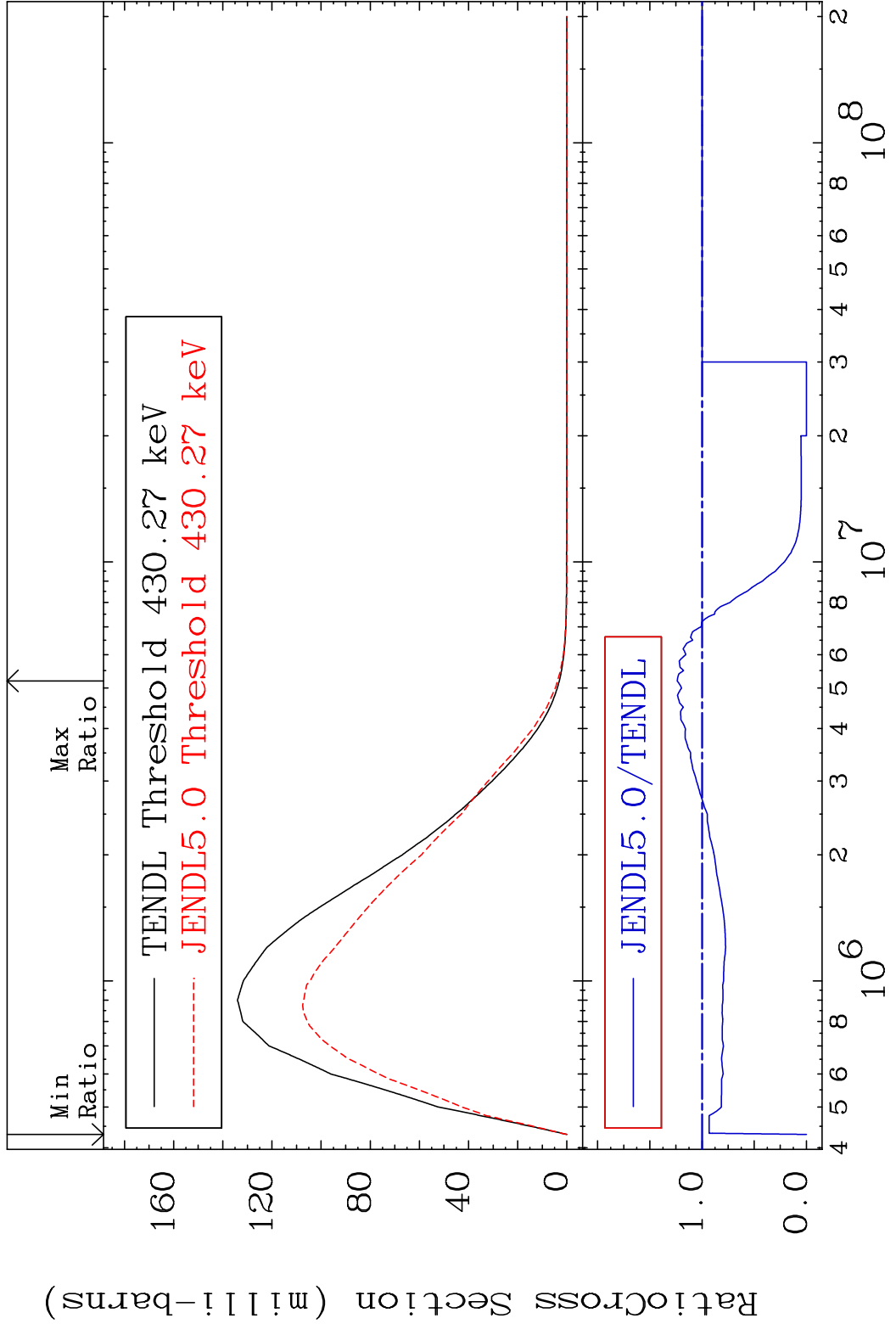


17 Incident Energy (eV) 35-Br-77

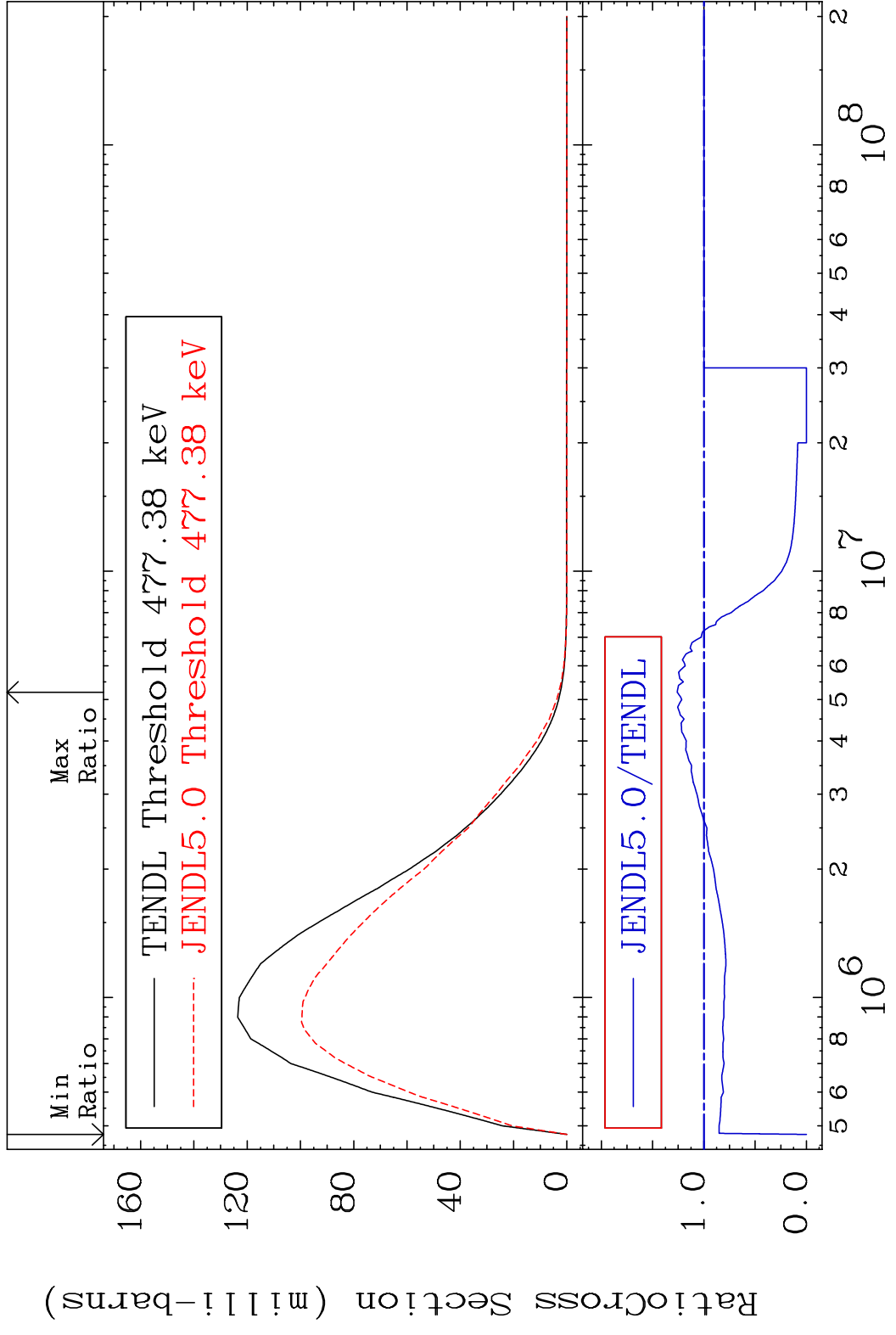
MAT 3519 MT= 58 (n,n') Level 35-Br-77
 Cross Section -100.0 To 193.6 %



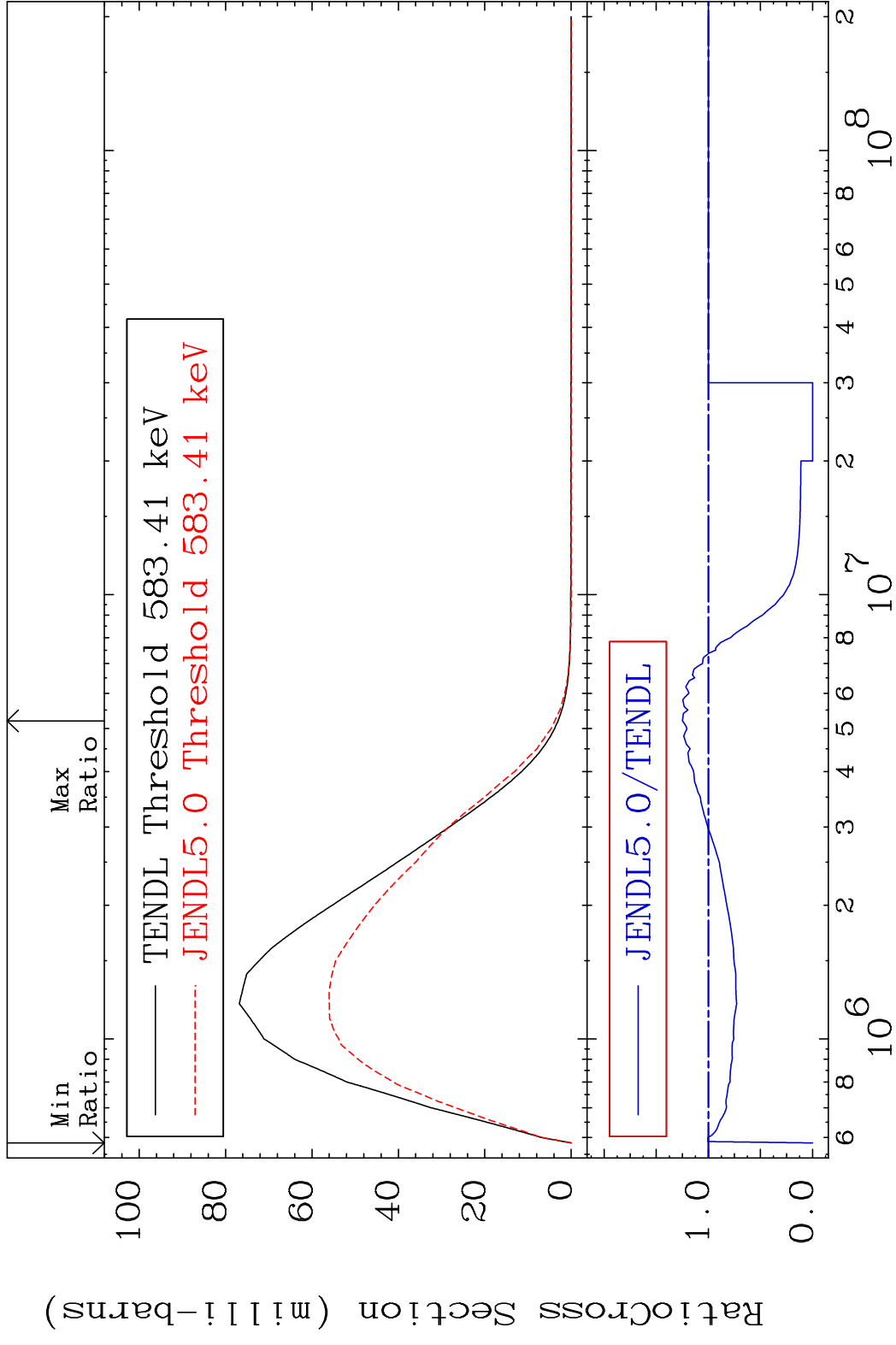
MAT 3519 MT= 59 (n, n') Level 35-Br-77
 Cross Section -100.0 To 23.79 %



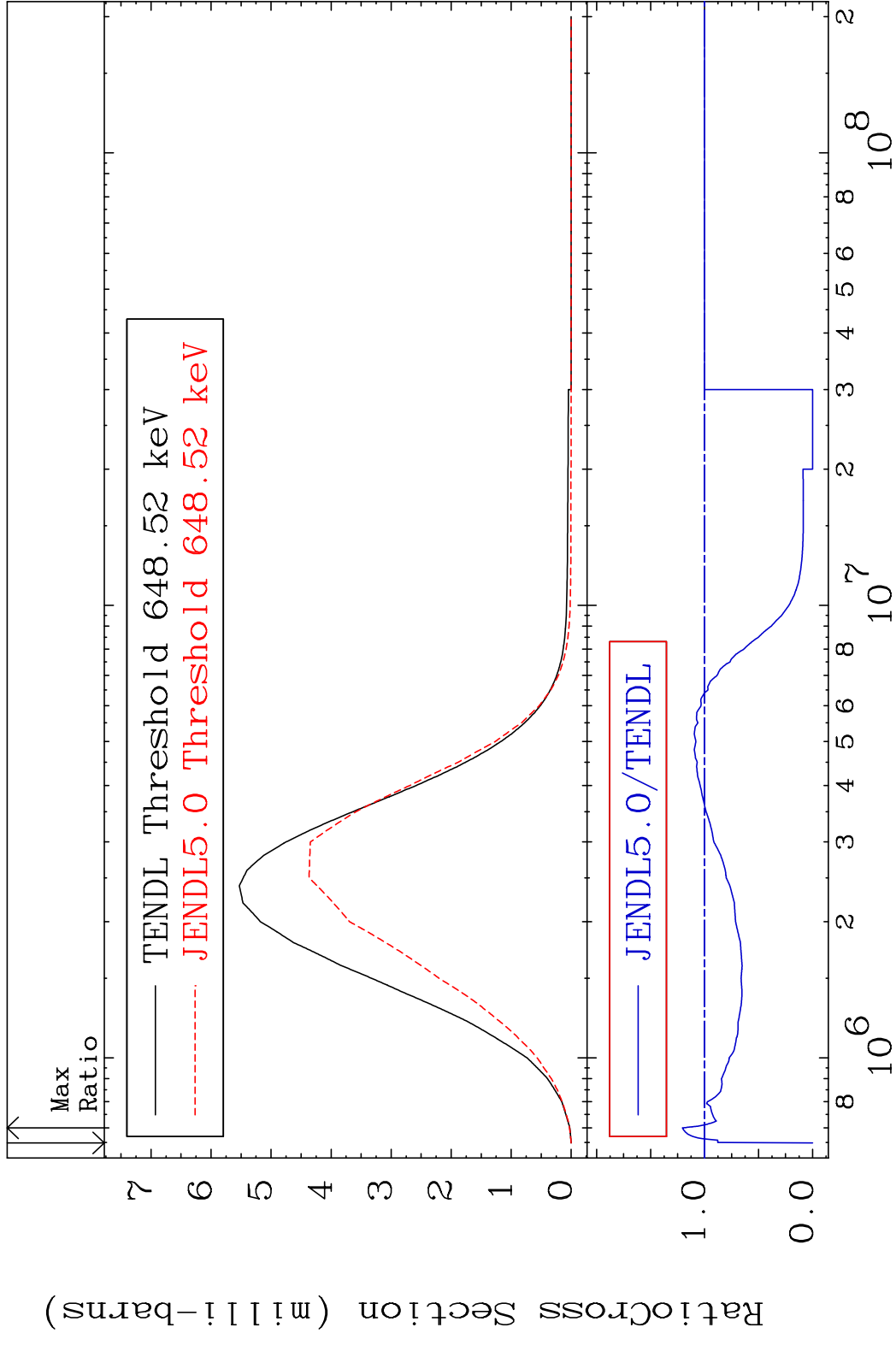
MAT 3519 MT= 60 (n, n') Level 35-Br-77
 Cross Section -100.0 To 26.01 %



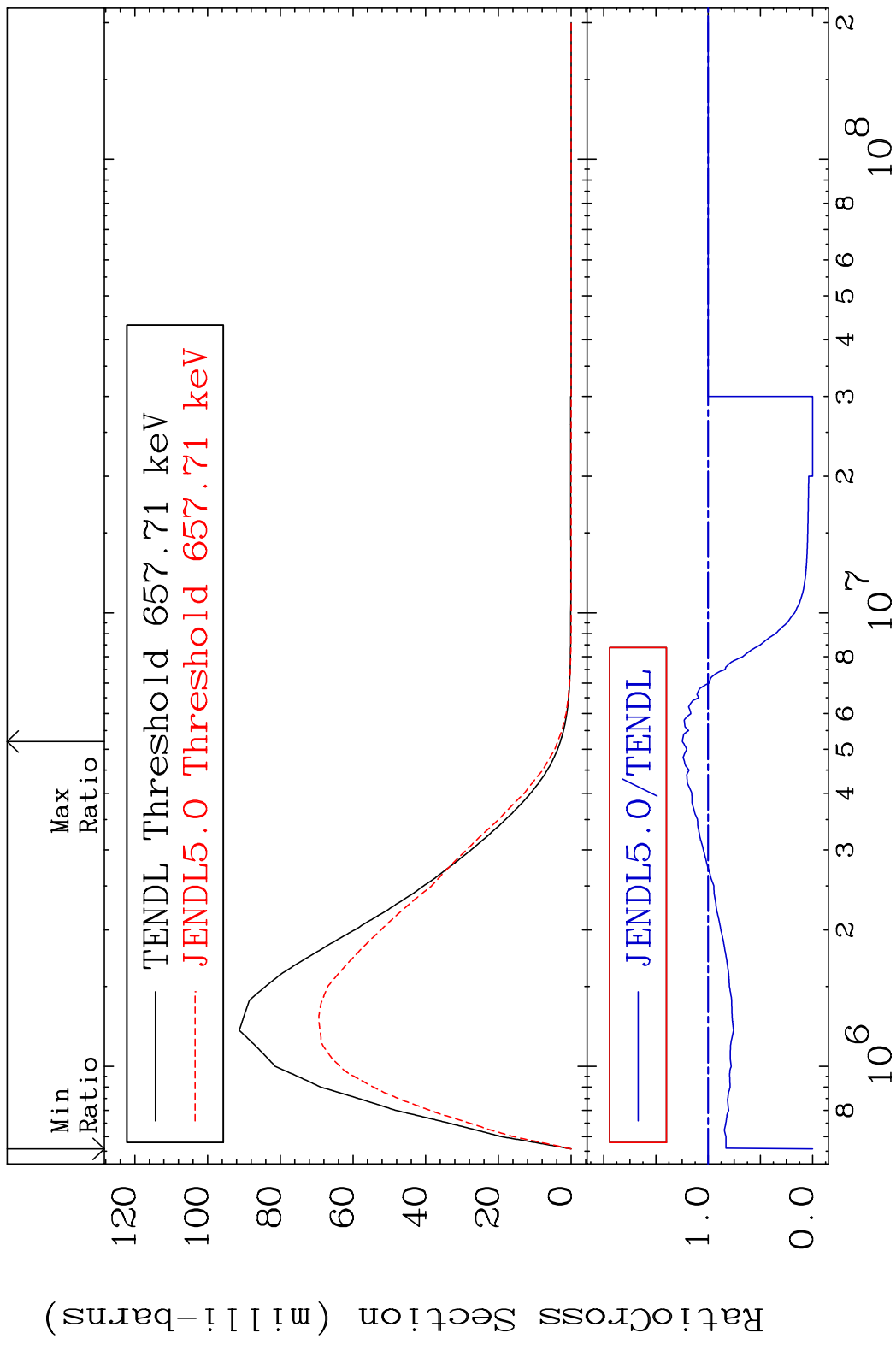
MAT 3519 MT= 61 (n, n') Level 35-Br-77
 Cross Section -100.0 To 24.96 %



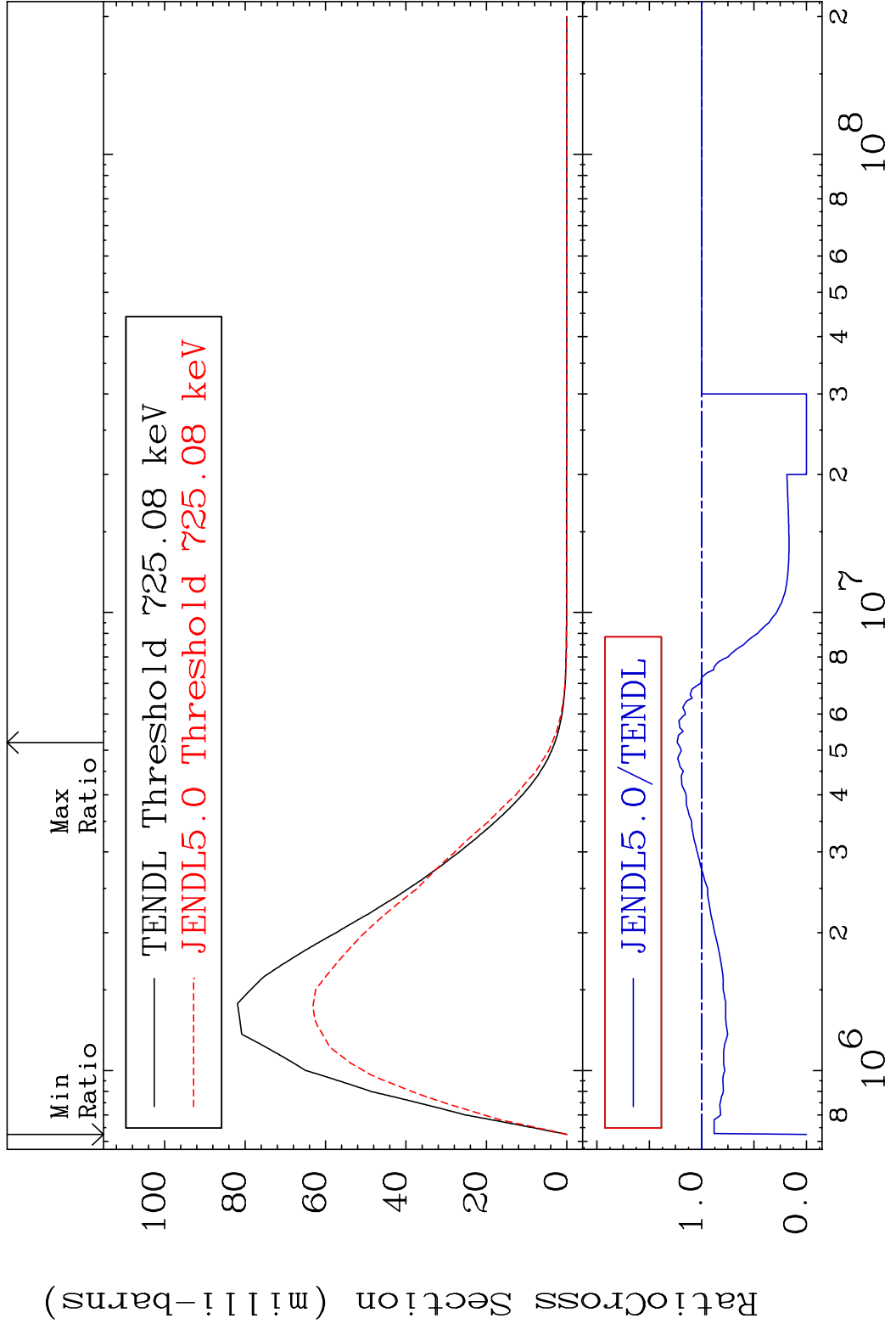
MAT 3519 MT= 62 (n,n') Level 35-Br-77
 Cross Section -100.0 To 20.58 %



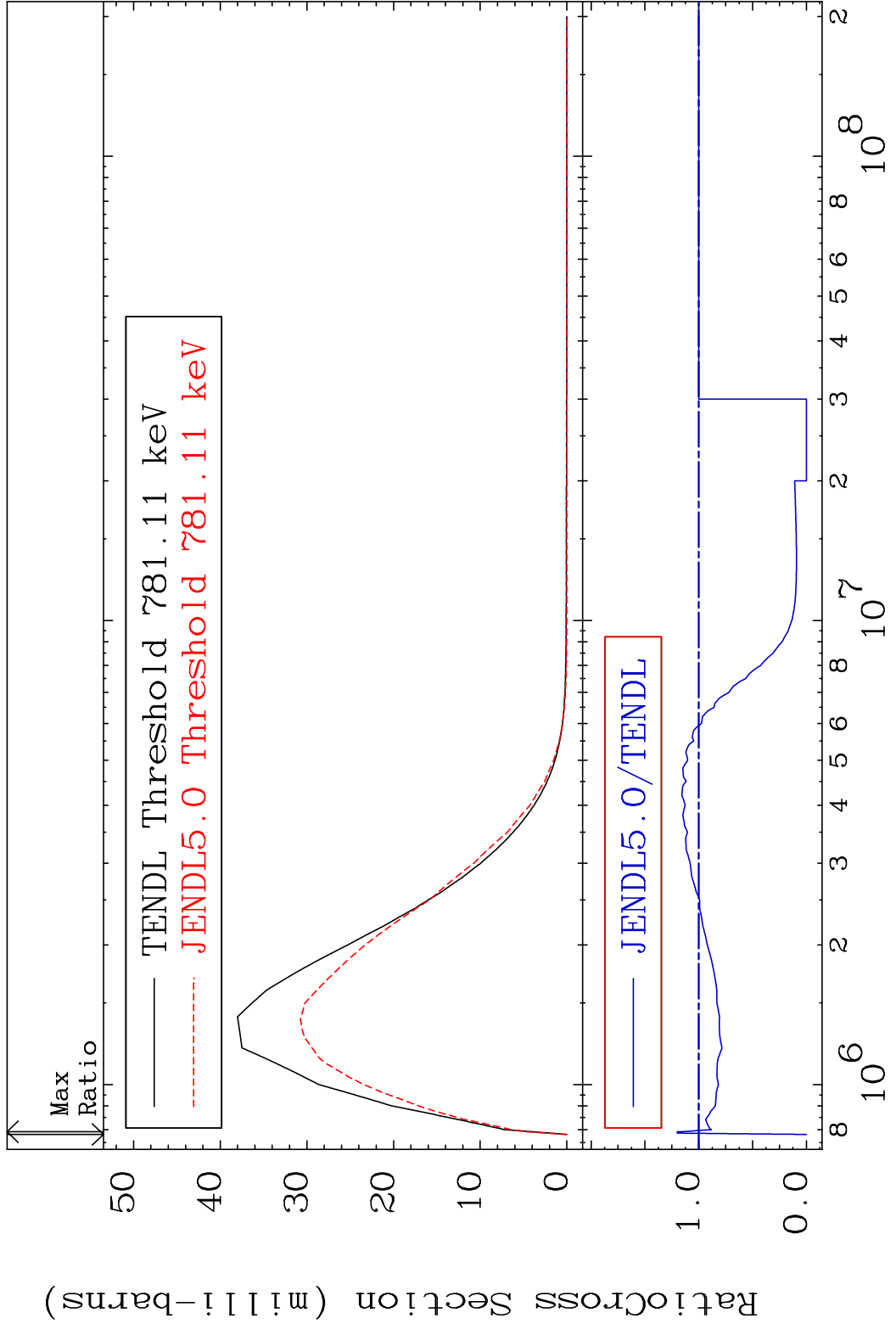
MAT 3519 MT= 63 (n, n') Level 35-Br-77
 Cross Section -100.0 To 24.72 %



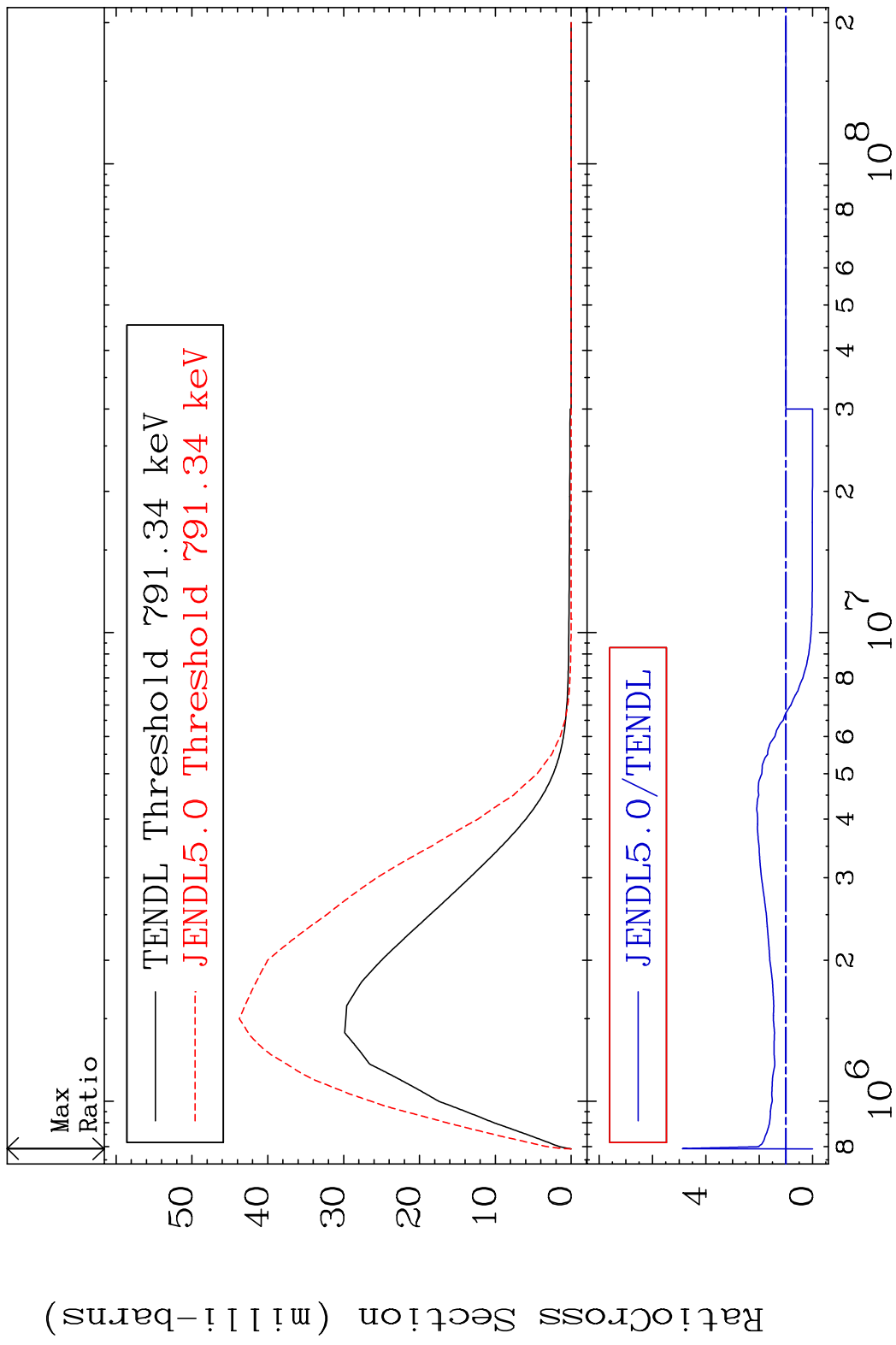
MAT 3519 MT= 64 (n, n') Level 35-Br-77
 Cross Section -100.0 To 23.40 %



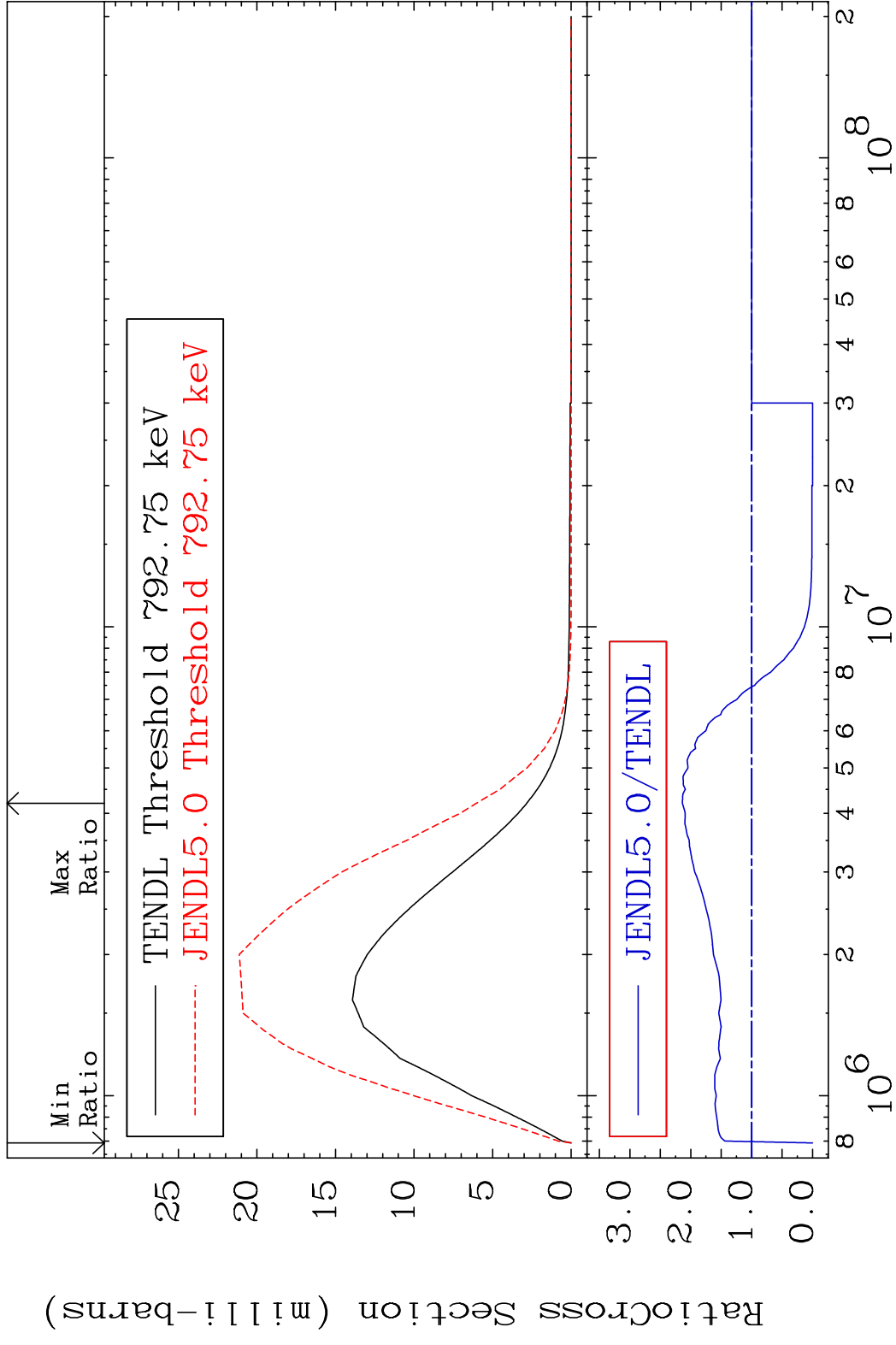
MAT 3519 MT= 65 (n,n') Level 35-Br-77
 Cross Section -100.0 To 20.05 %



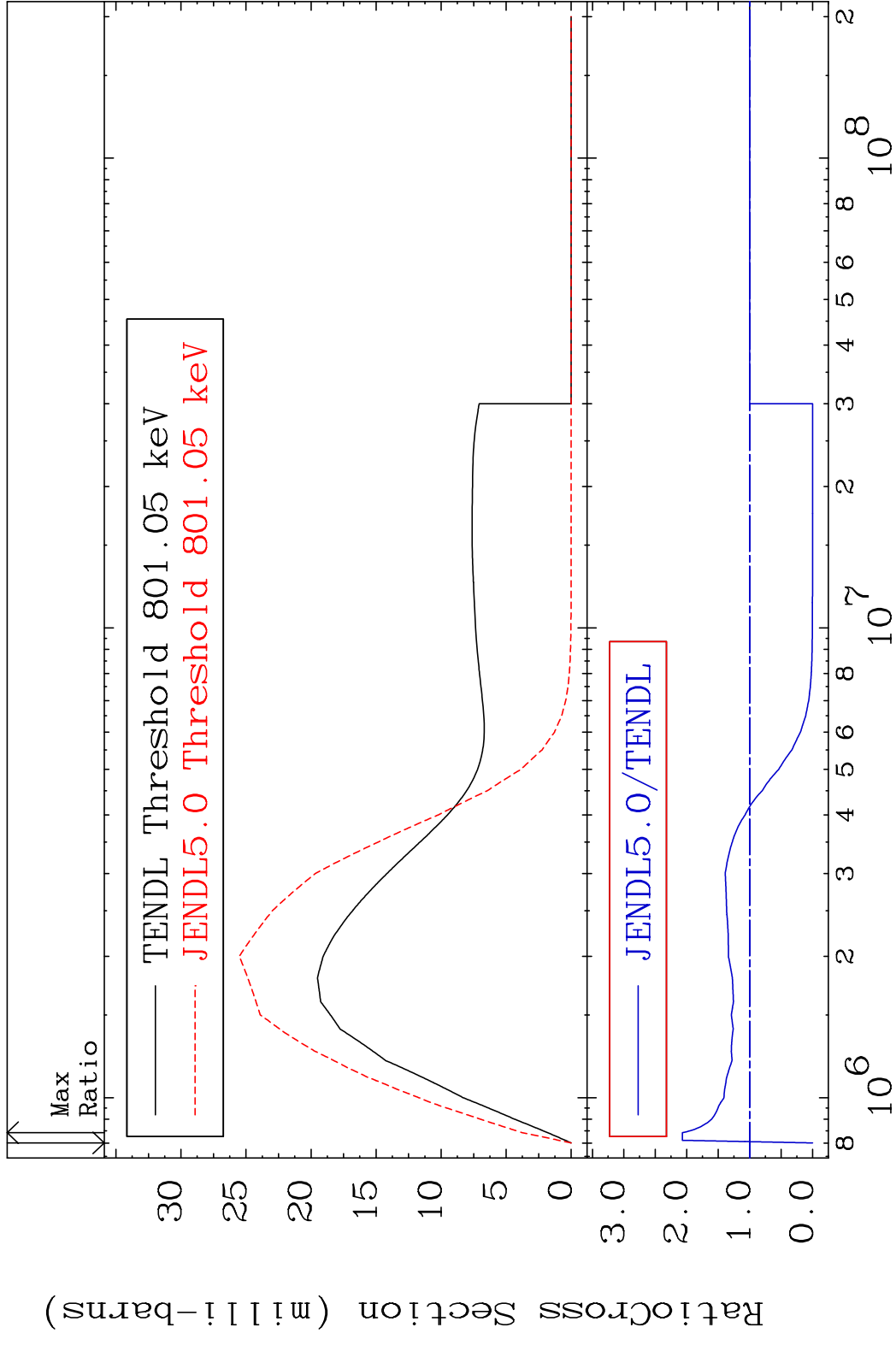
MAT 3519 MT= 66 (n,n') Level 35-Br-77
 Cross Section -100.0 To 387.9 %



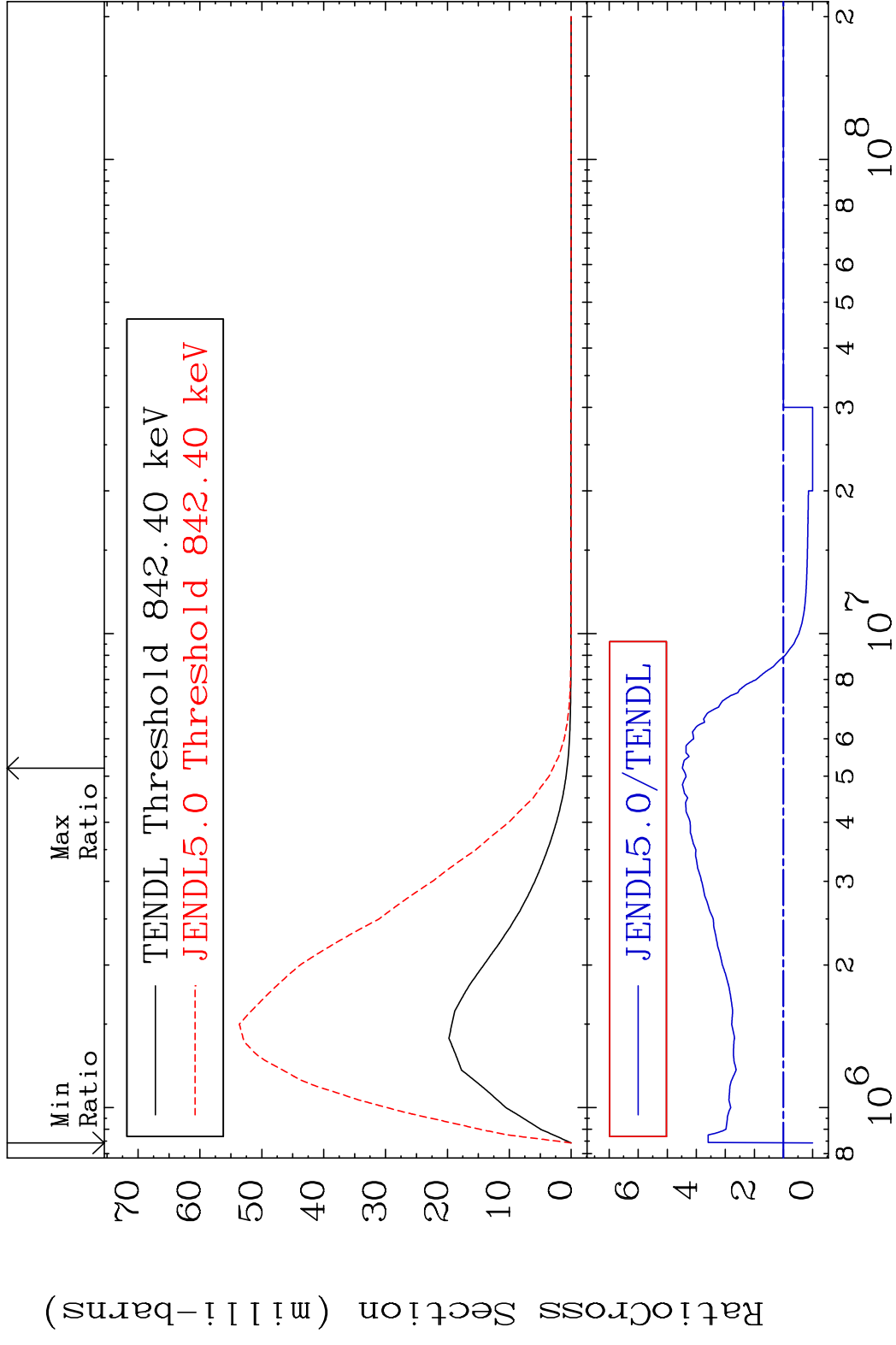
MAT 3519 MT= 67 (n,n') Level 35-Br-77
 Cross Section -100.0 To 113.8 %



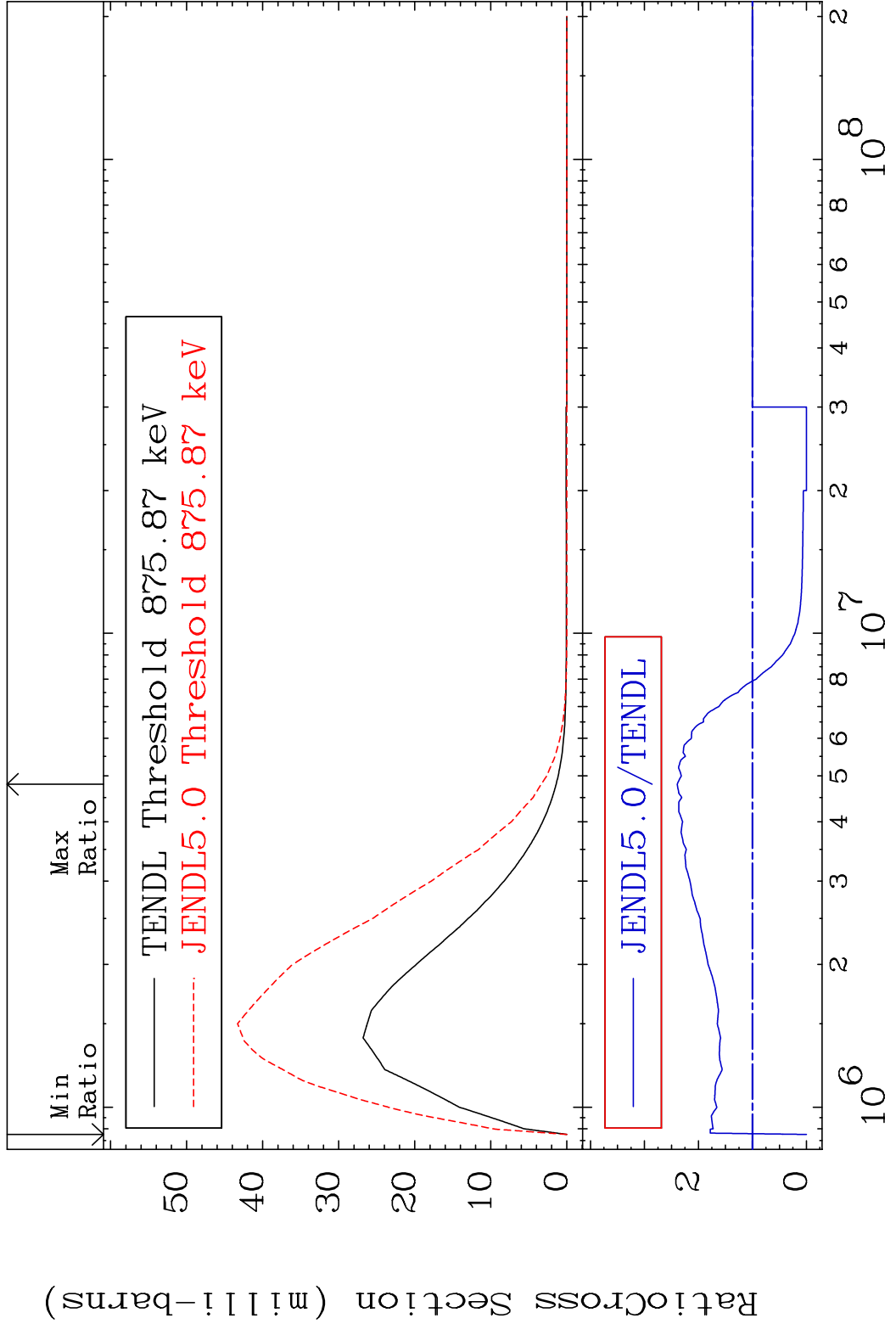
MAT 3519 MT= 68 (n, n') Level 35-Br-77
 Cross Section -100.0 To 107.0 %



MAT 3519 MT= 69 (n, n') Level 35-Br-77
 Cross Section -100.0 To 348.0 %

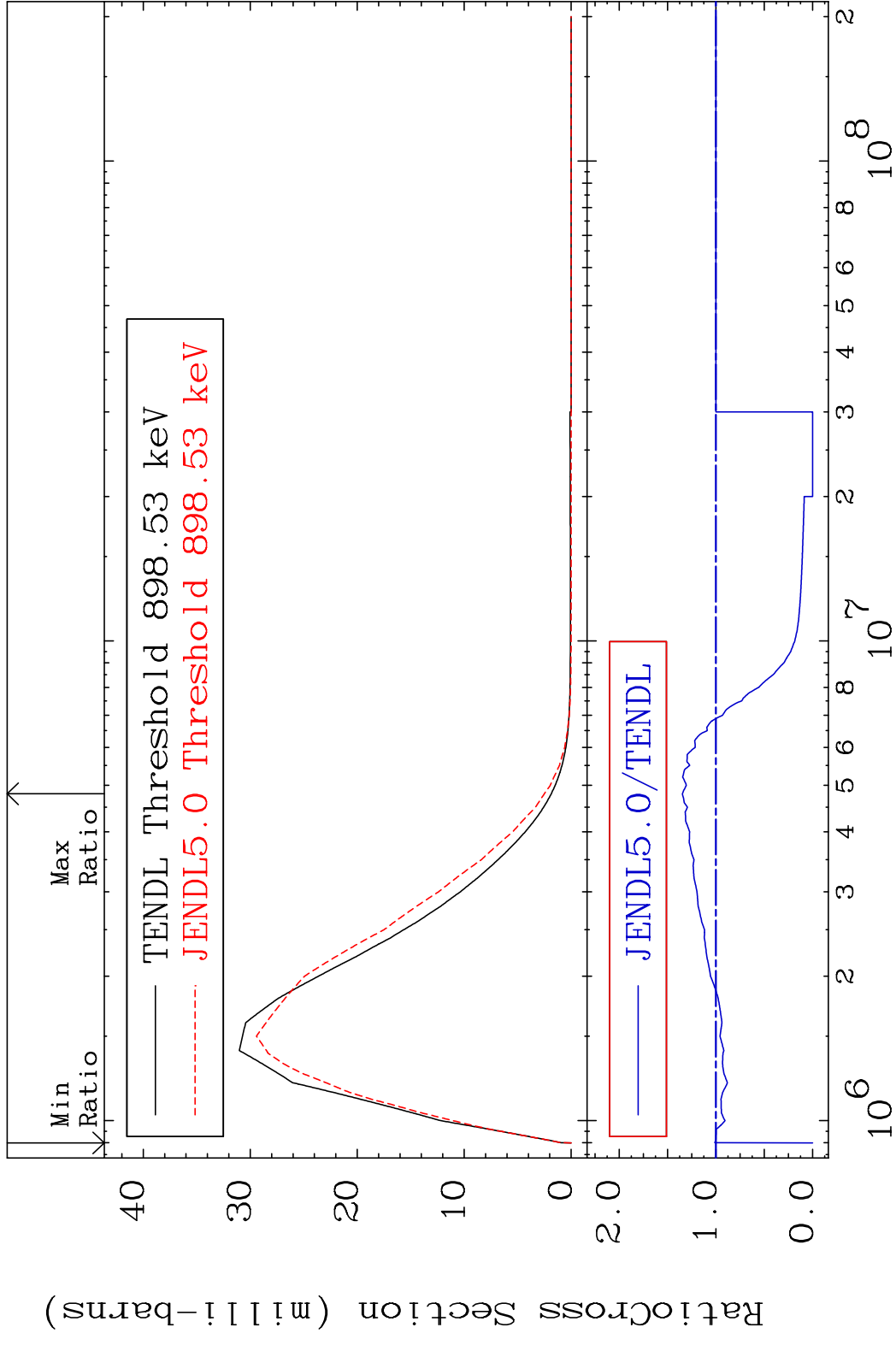


MAT 3519 MT= 70 (n,n') Level 35-Br-77
 Cross Section -100.0 To 139.4 %



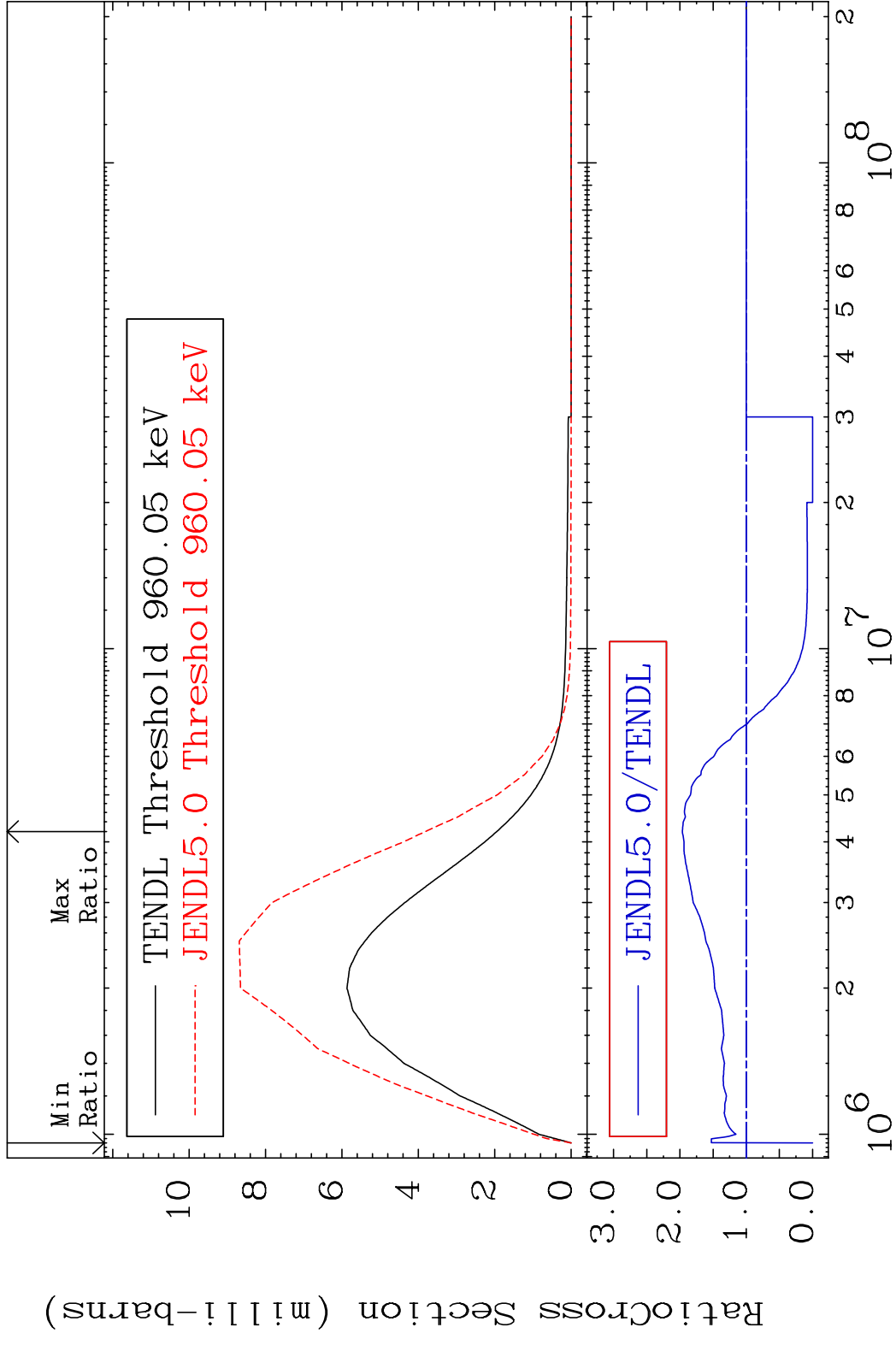
30 Incident Energy (eV) 35-Br-77

MAT 3519 MT= 71 (n,n') Level 35-Br-77
 Cross Section -100.0 To 34.70 %



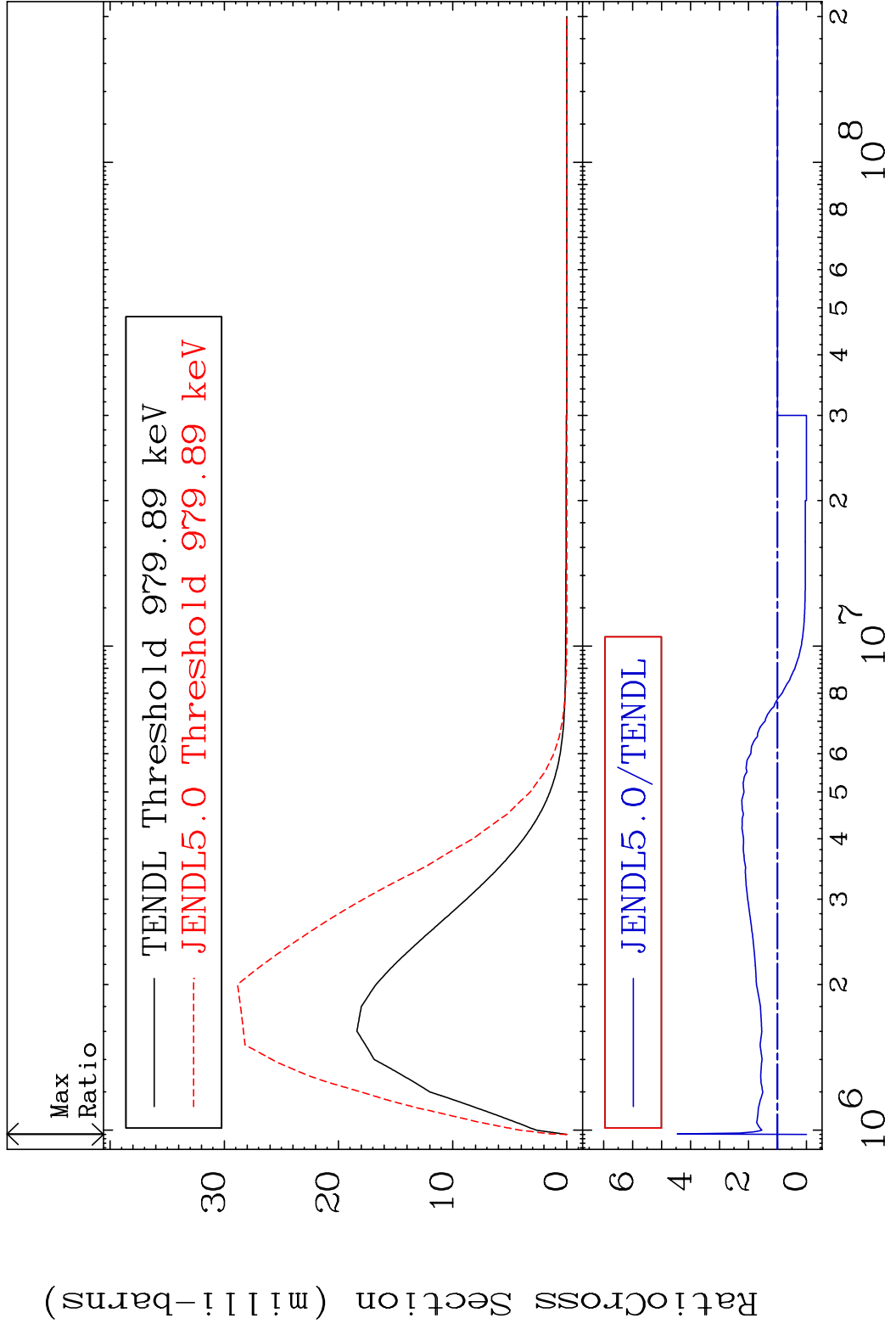
31 Incident Energy (eV) 35-Br-77

MAT 3519 MT= 72 (n, n') Level 35-Br-77
 Cross Section -100.0 To 96.34 %



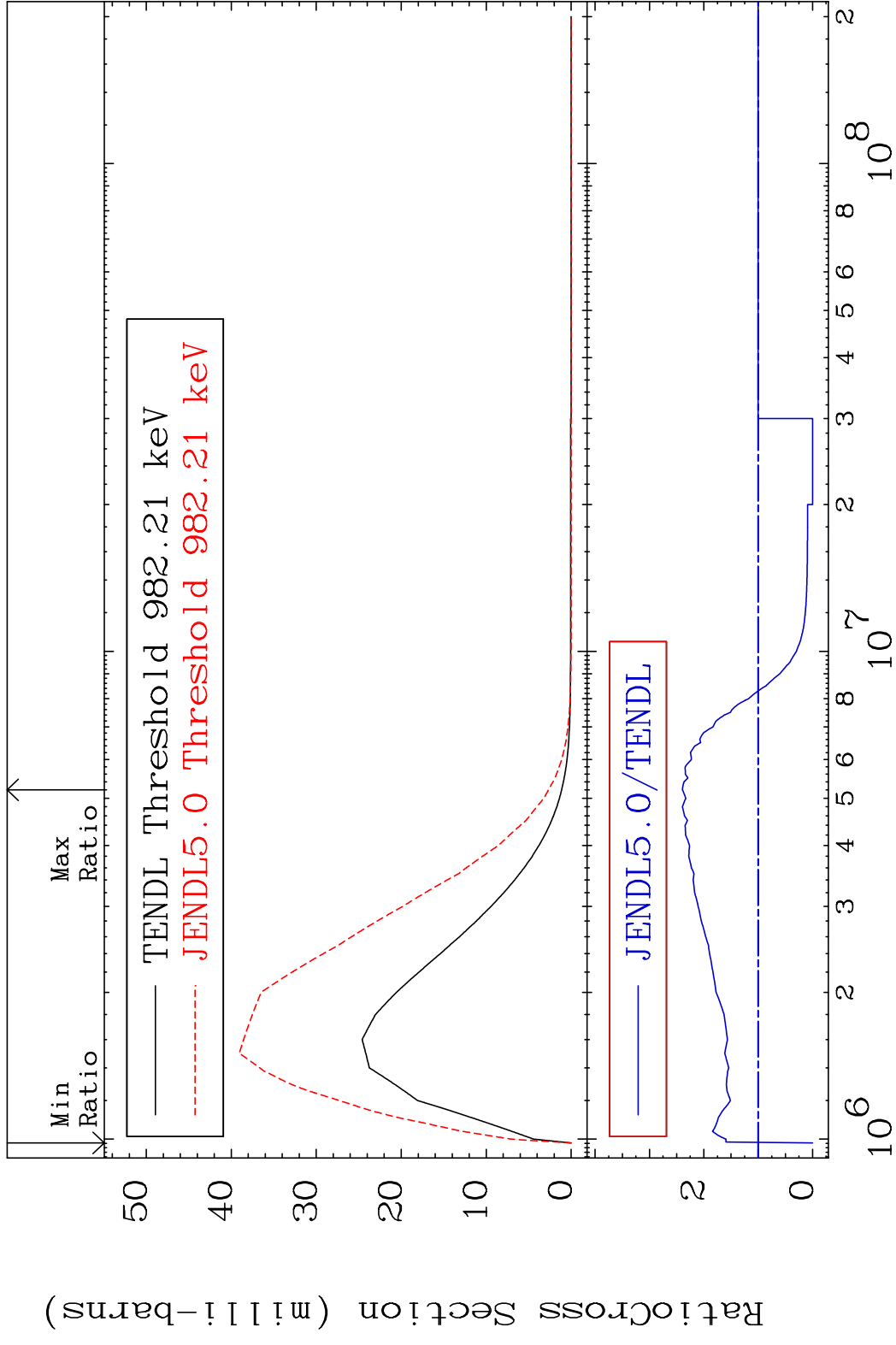
32 Incident Energy (eV) 35-Br-77

MAT 3519 MT= 73 (n, n') Level 35-Br-77
 Cross Section -100.0 To 346.1 %

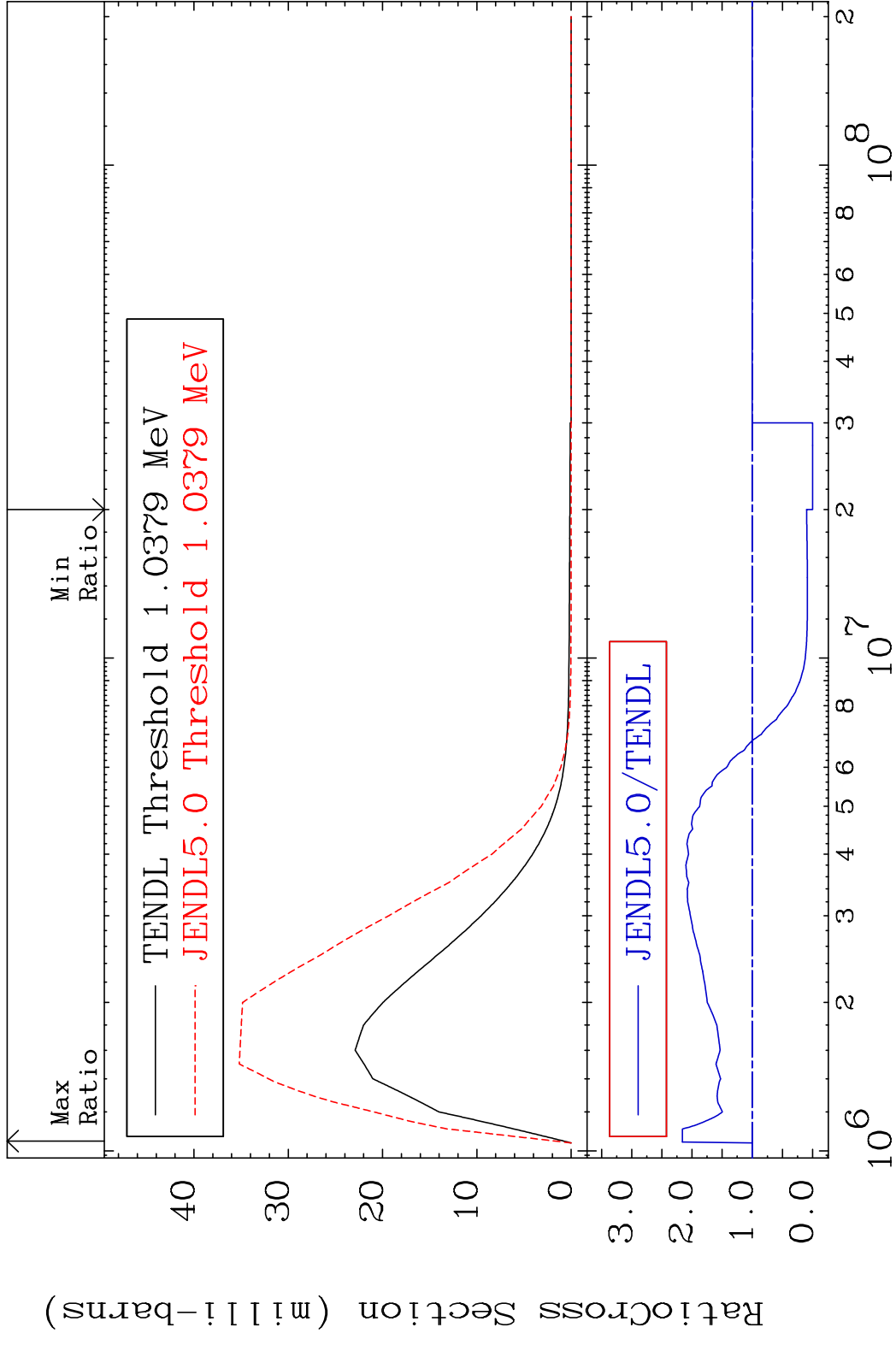


33 35-Br-77

MAT 3519 MT= 74 (n, n') Level 35-Br-77
 Cross Section -100.0 To 139.5 %

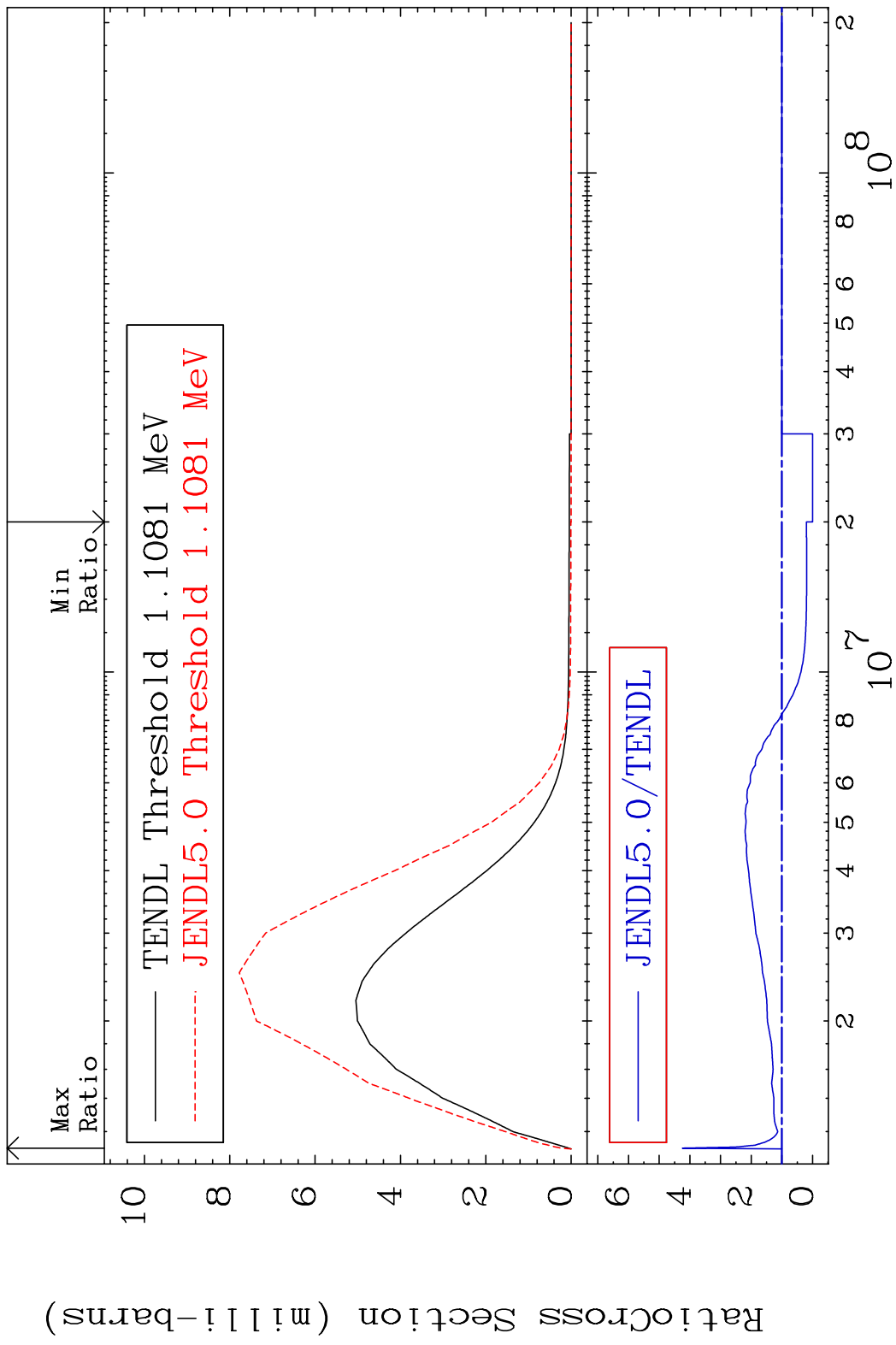


MAT 3519 MT= 75 (n, n') Level 35-Br-77
 Cross Section -100.0 To 116.0 %

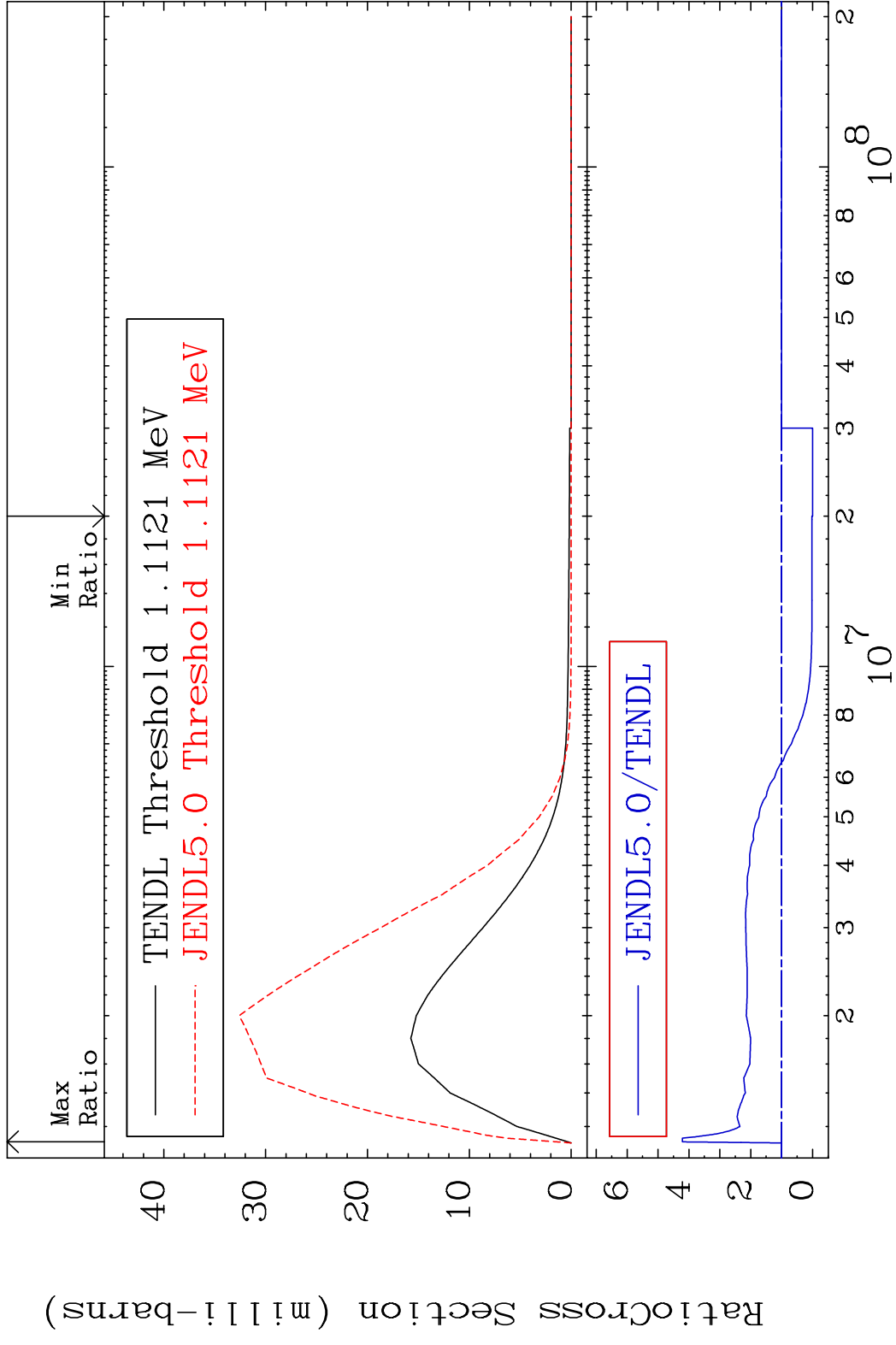


35 35-Br-77

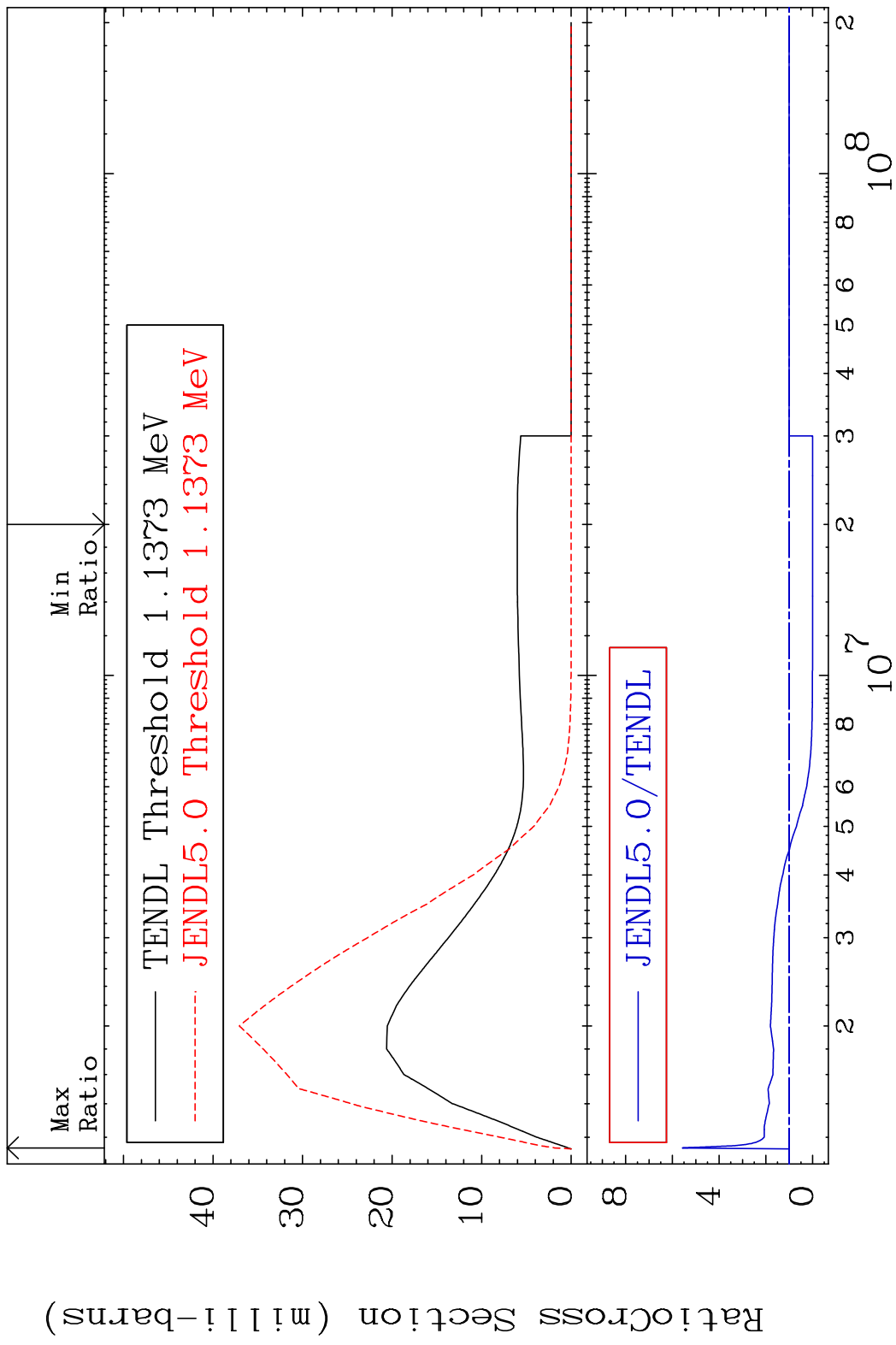
MAT 3519 MT= 76 (n, n') Level 35-Br-77
 Cross Section -100.0 To 324.6 %



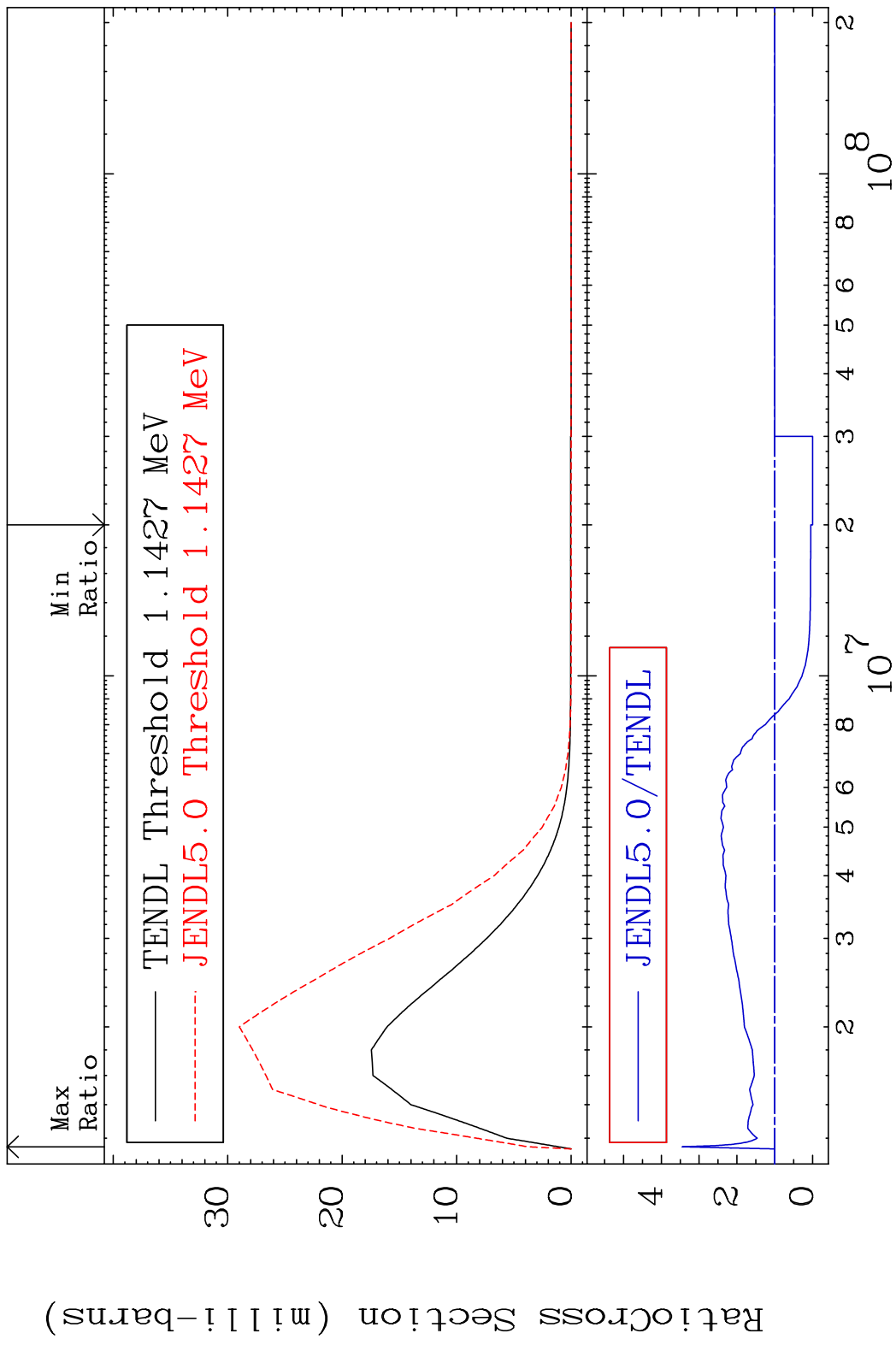
MAT 3519 MT= 77 (n, n') Level 35-Br-77
 Cross Section -100.0 To 321.2 %



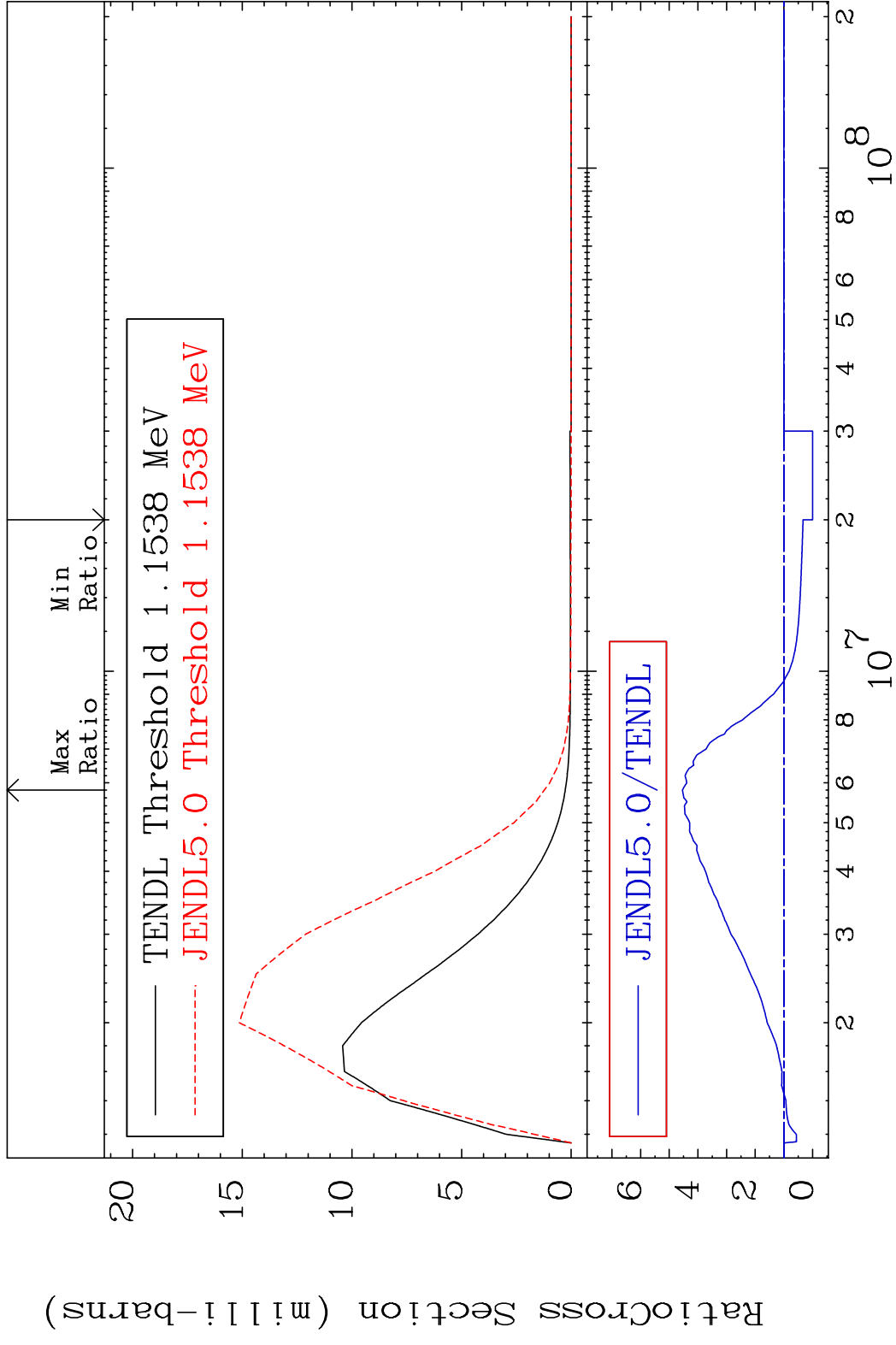
MAT 3519 MT= 78 (n, n') Level 35-Br-77
 Cross Section -100.0 To 457.4 %



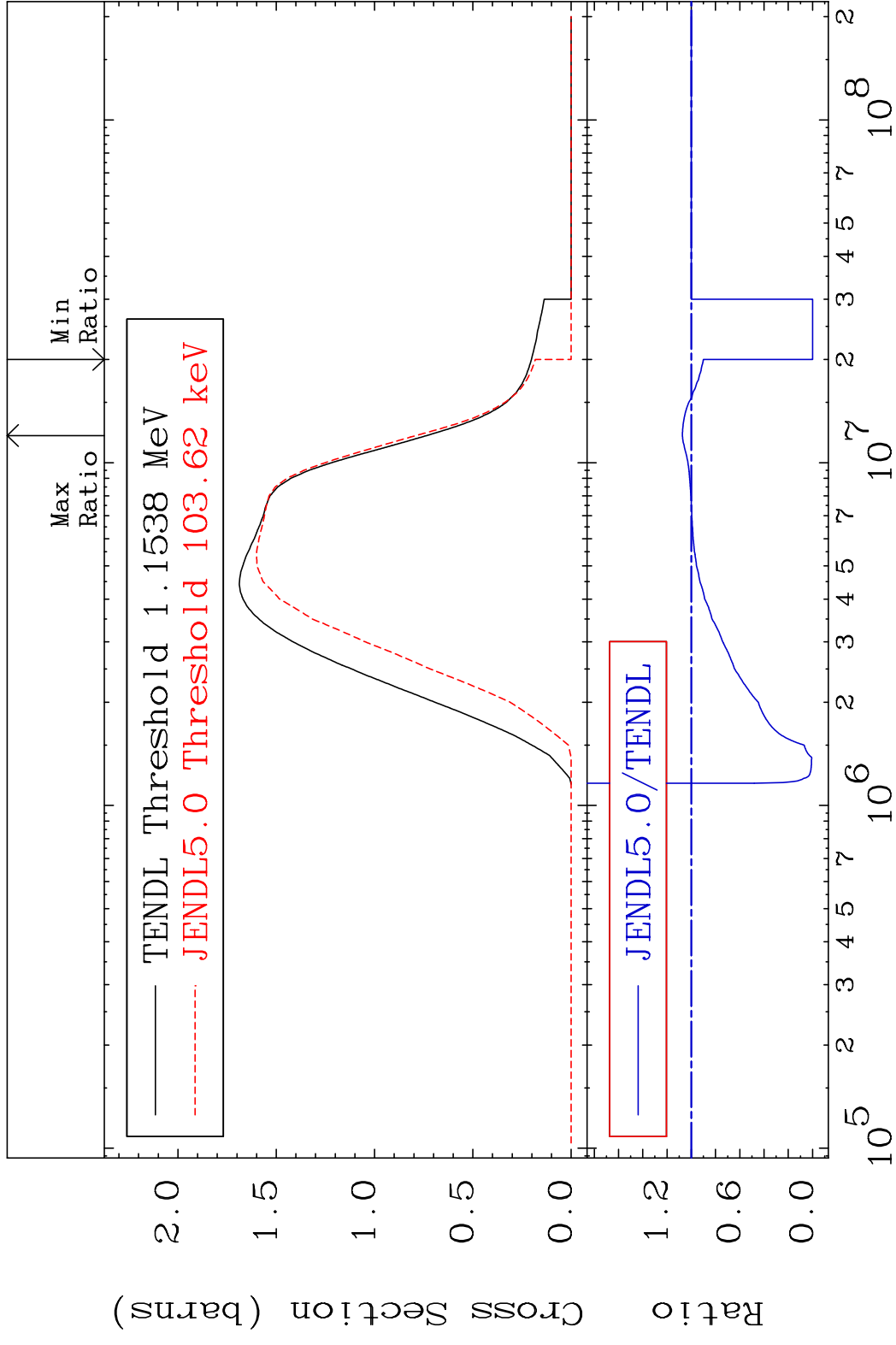
MAT 3519 MT= 79 (n, n') Level 35-Br-77
 Cross Section -100.0 To 244.4 %



MAT 3519 MT= 80 (n, n') Level 35-Br-77
 Cross Section -100.0 To 354.3 %



MAT 3519 (n, n') Continuum 35-Br-77
 Cross Section -100.0 To 7.365 %



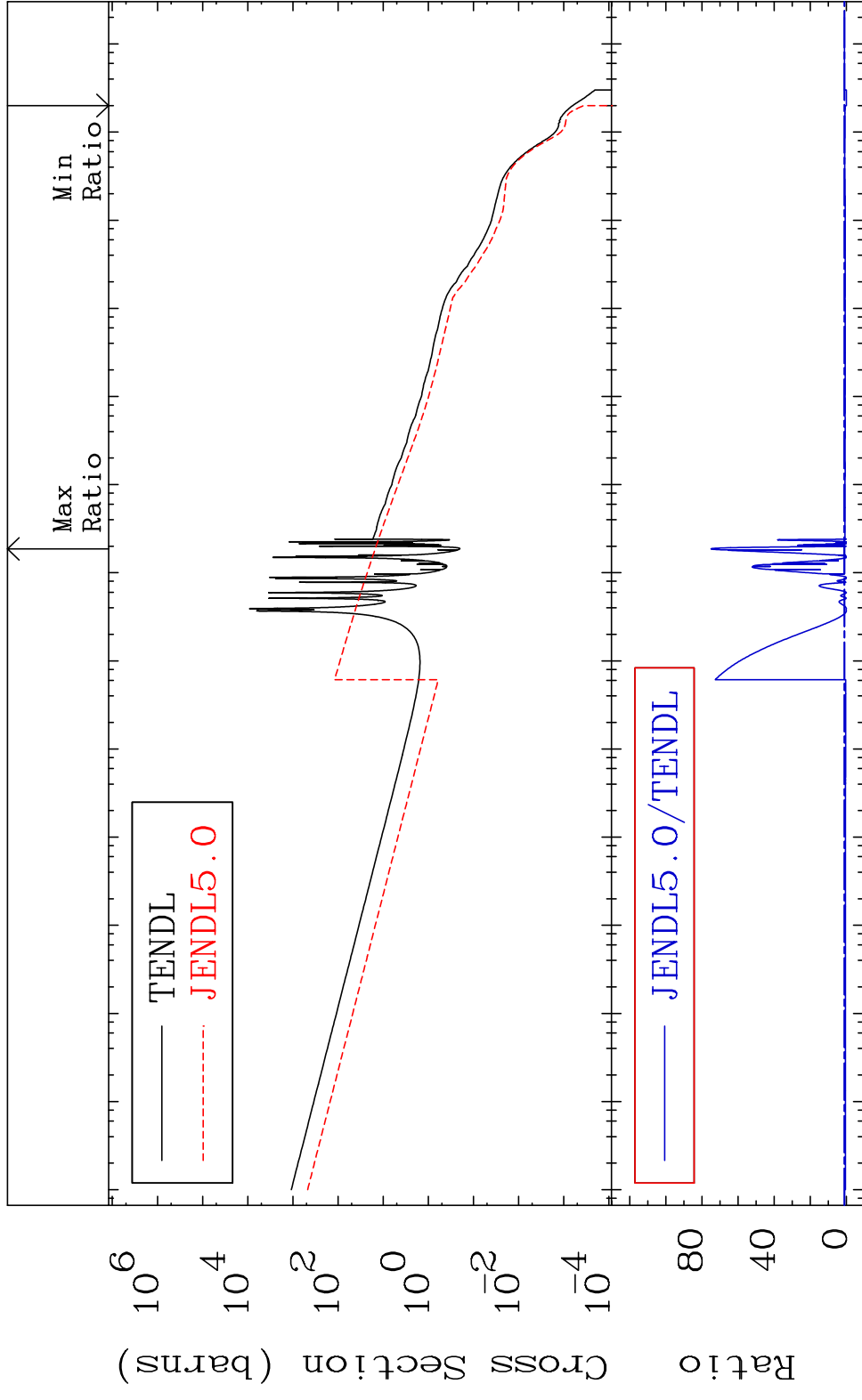
41 Incident Energy (eV) 35-Br-77

MAT 3519

35-Br-77

(n, γ)

Cross Section -100.0 To 7417. %



42

Incident Energy (eV)

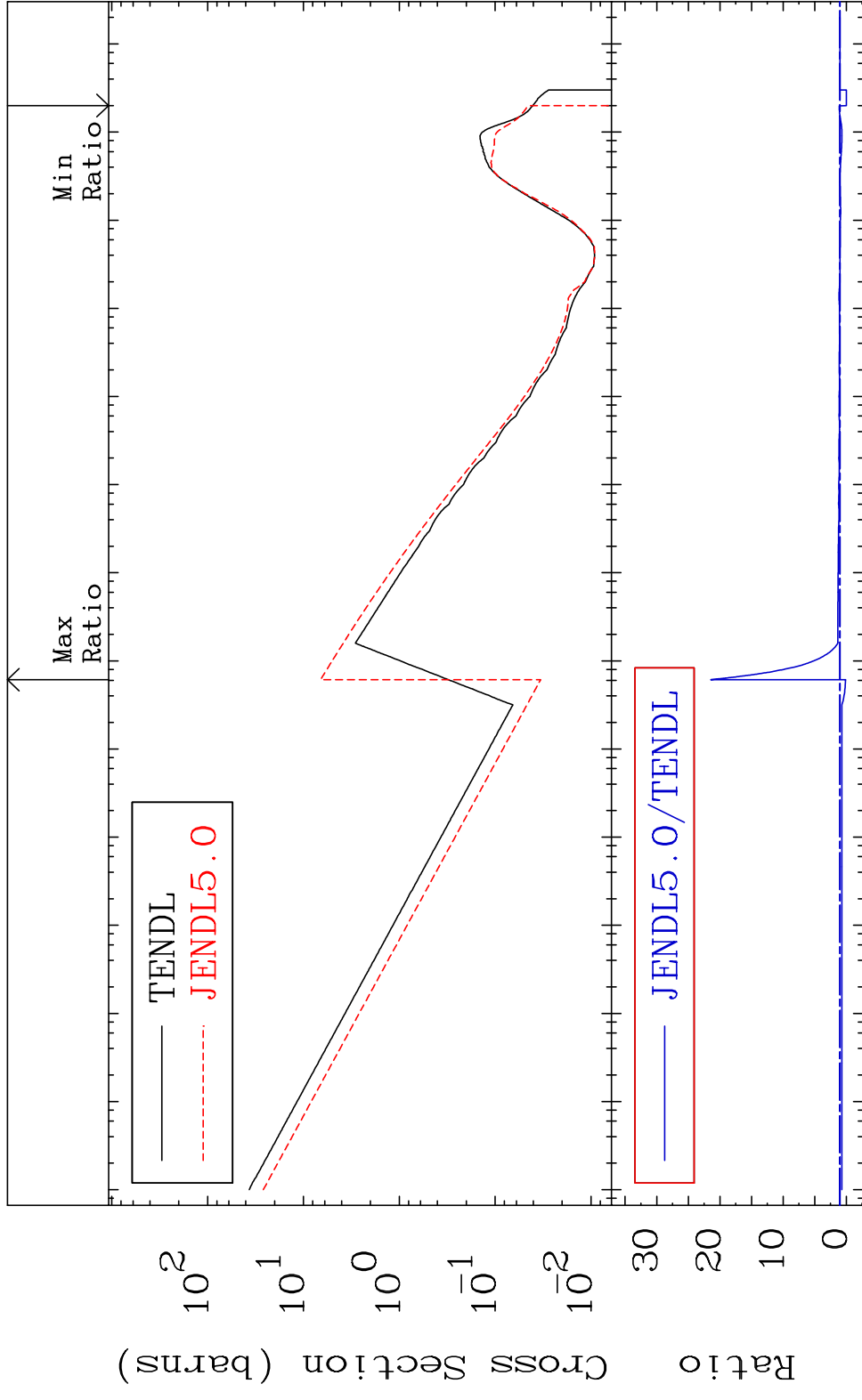
35-Br-77

MAT 3519

(n, p)

35-Br-77

Cross Section -100.0 To 2046. %

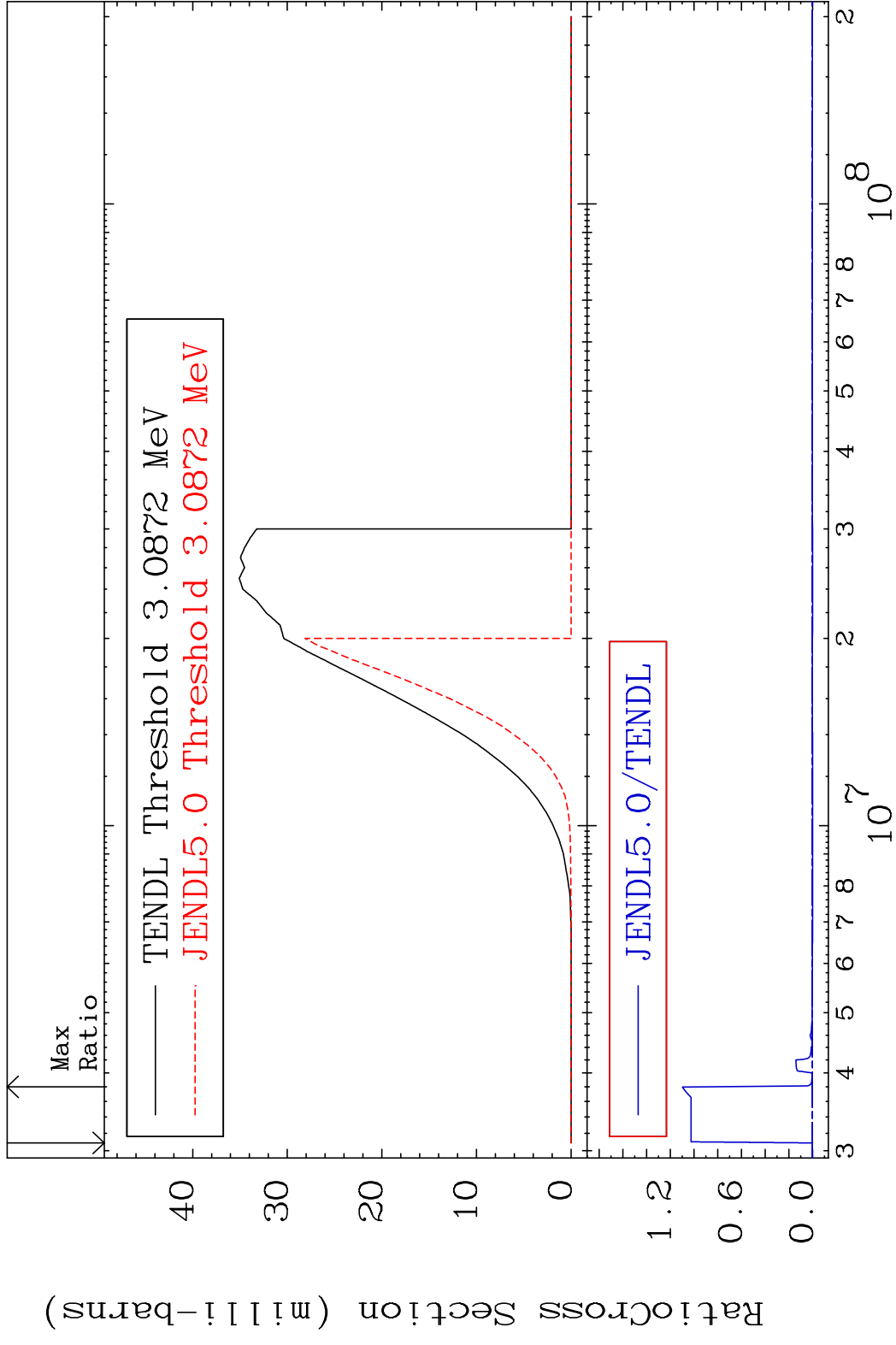


43

Incident Energy (eV)

35-Br-77

MAT 3519 (n,d) 35-Br-77
 Cross Section -100.0 To 9999. %

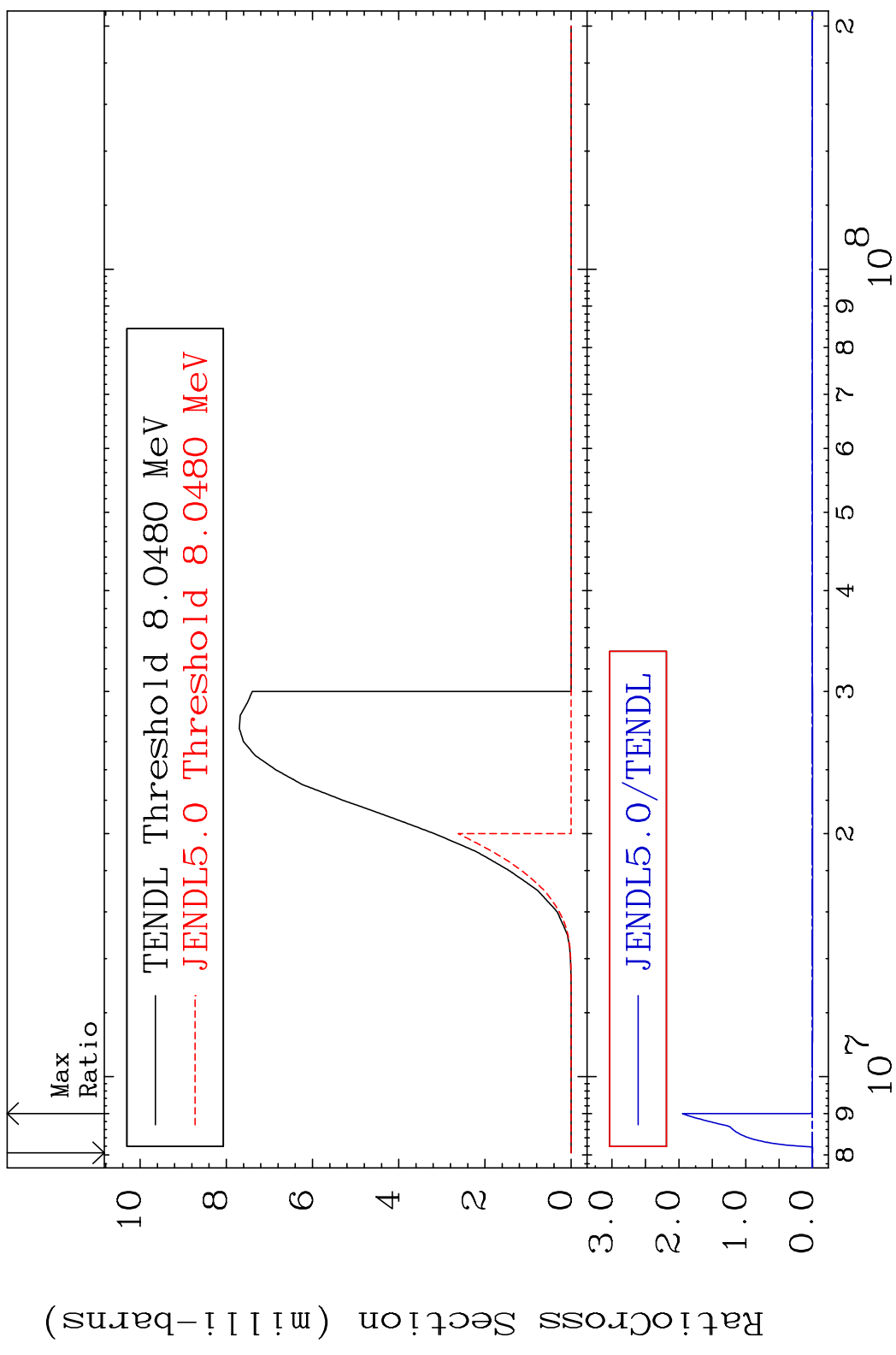


MAT 3519

(n, t)

35-Br-77

Cross Section -100.0 To 9999. %



45

Incident Energy (eV)

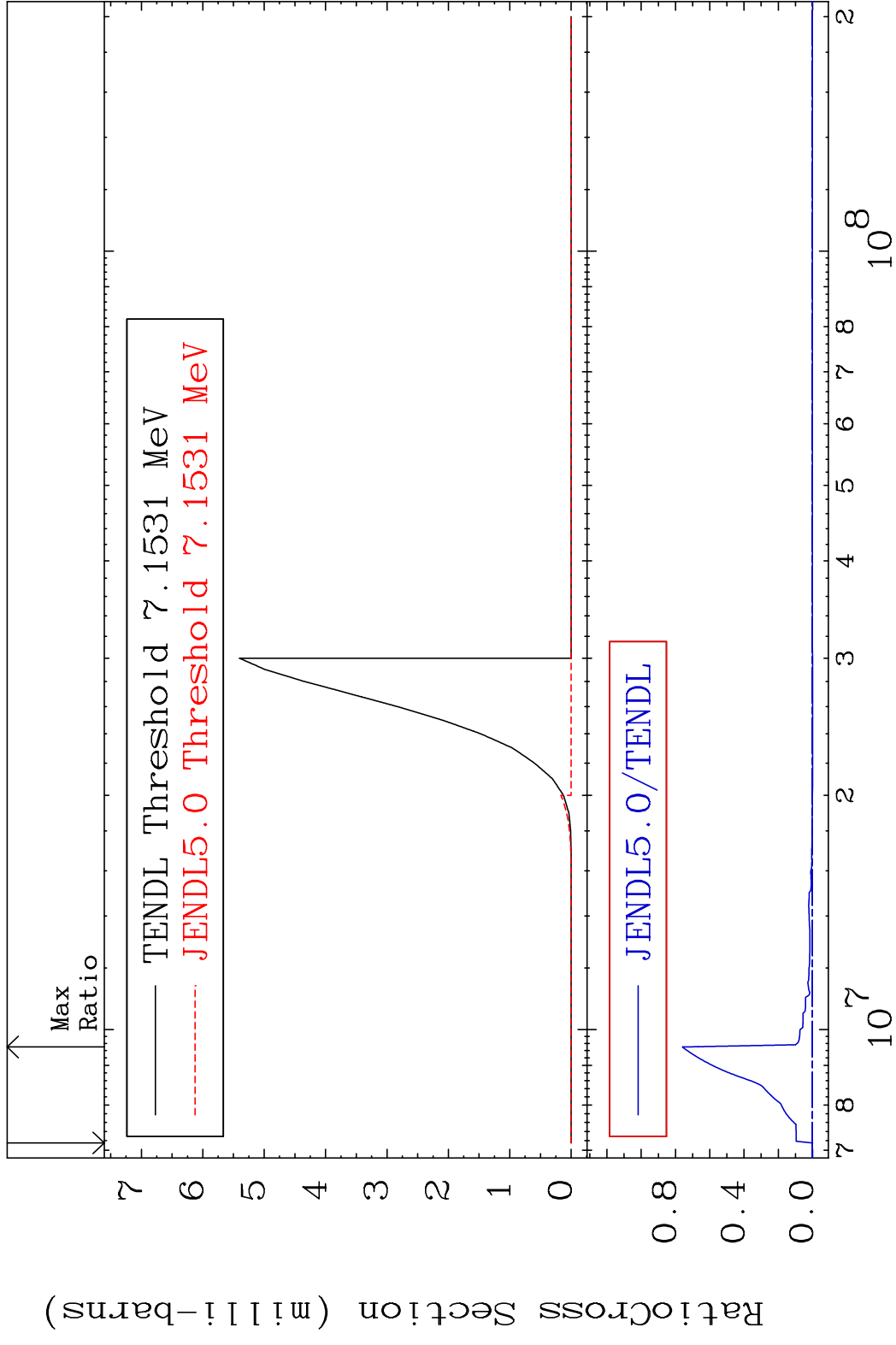
35-Br-77

MAT 3519

(n, He-3)

35-Br-77

Cross Section -100.0 To 9999. %



46

Incident Energy (eV)

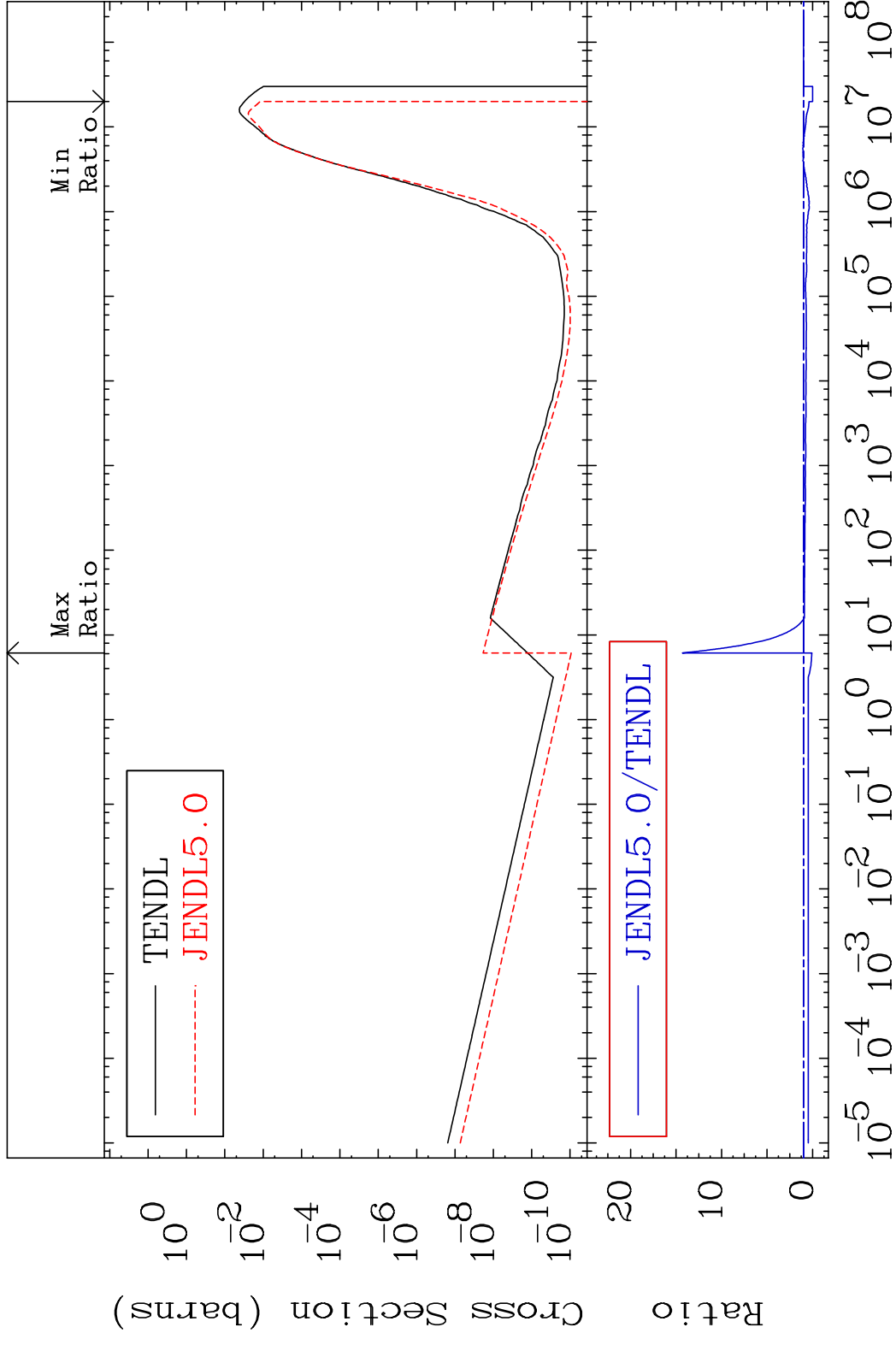
35-Br-77

MAT 3519

35-Br-77

(n, α)

Cross Section -100.0 To 1331. %

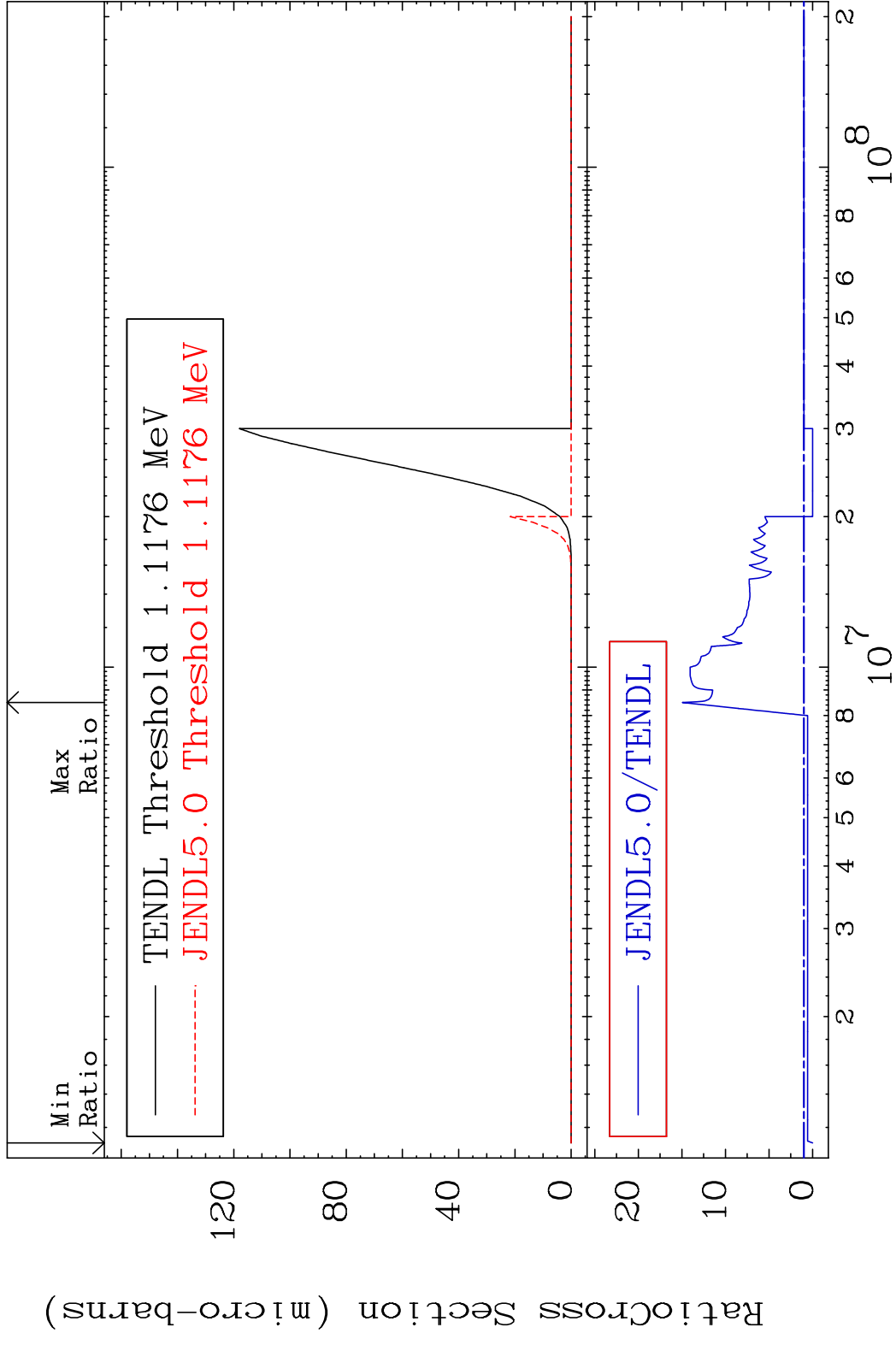


47

Incident Energy (eV)

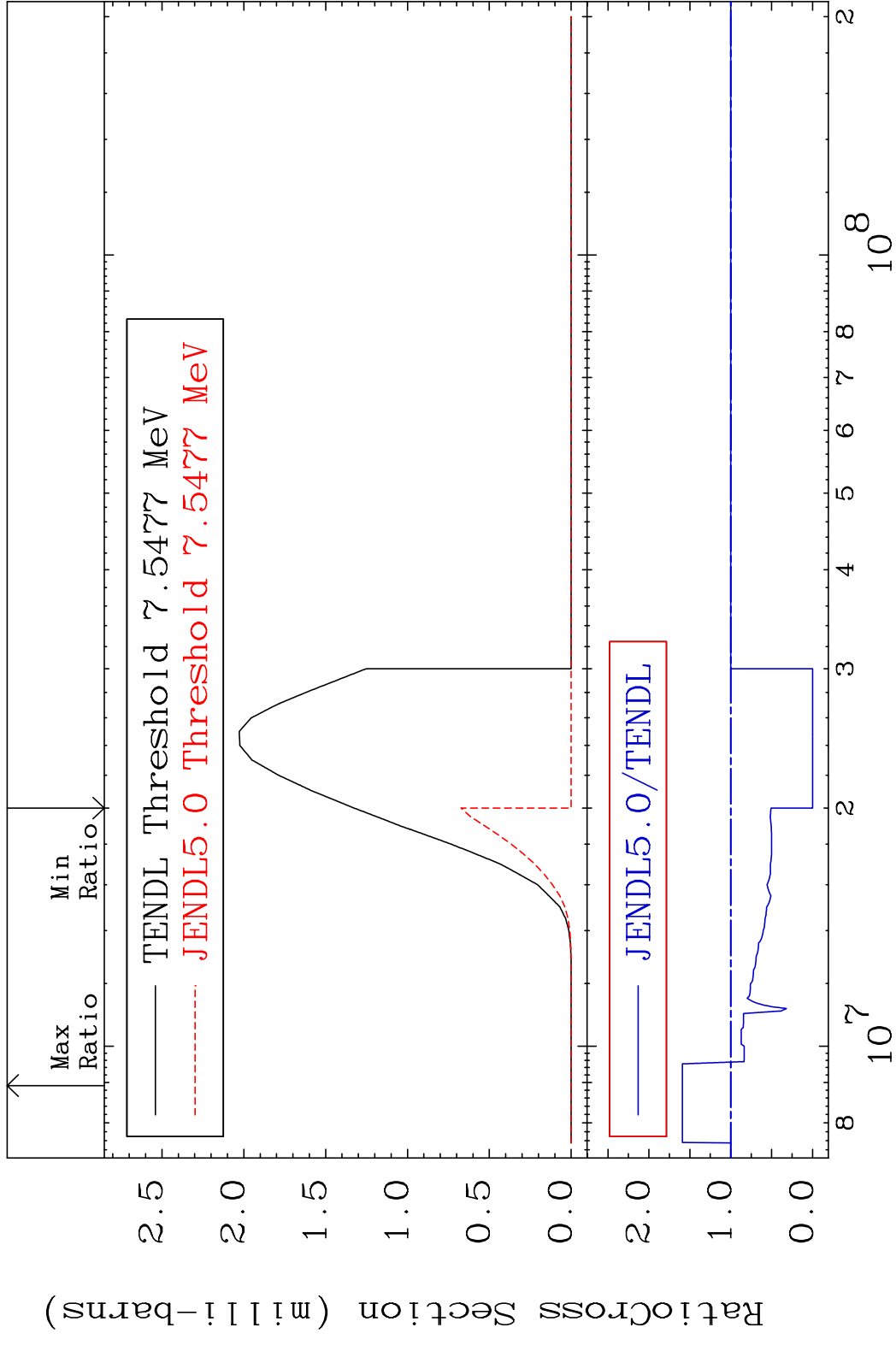
35-Br-77

MAT 3519 (n,2α) 35-Br-77
 Cross Section -100.0 To 1394. %

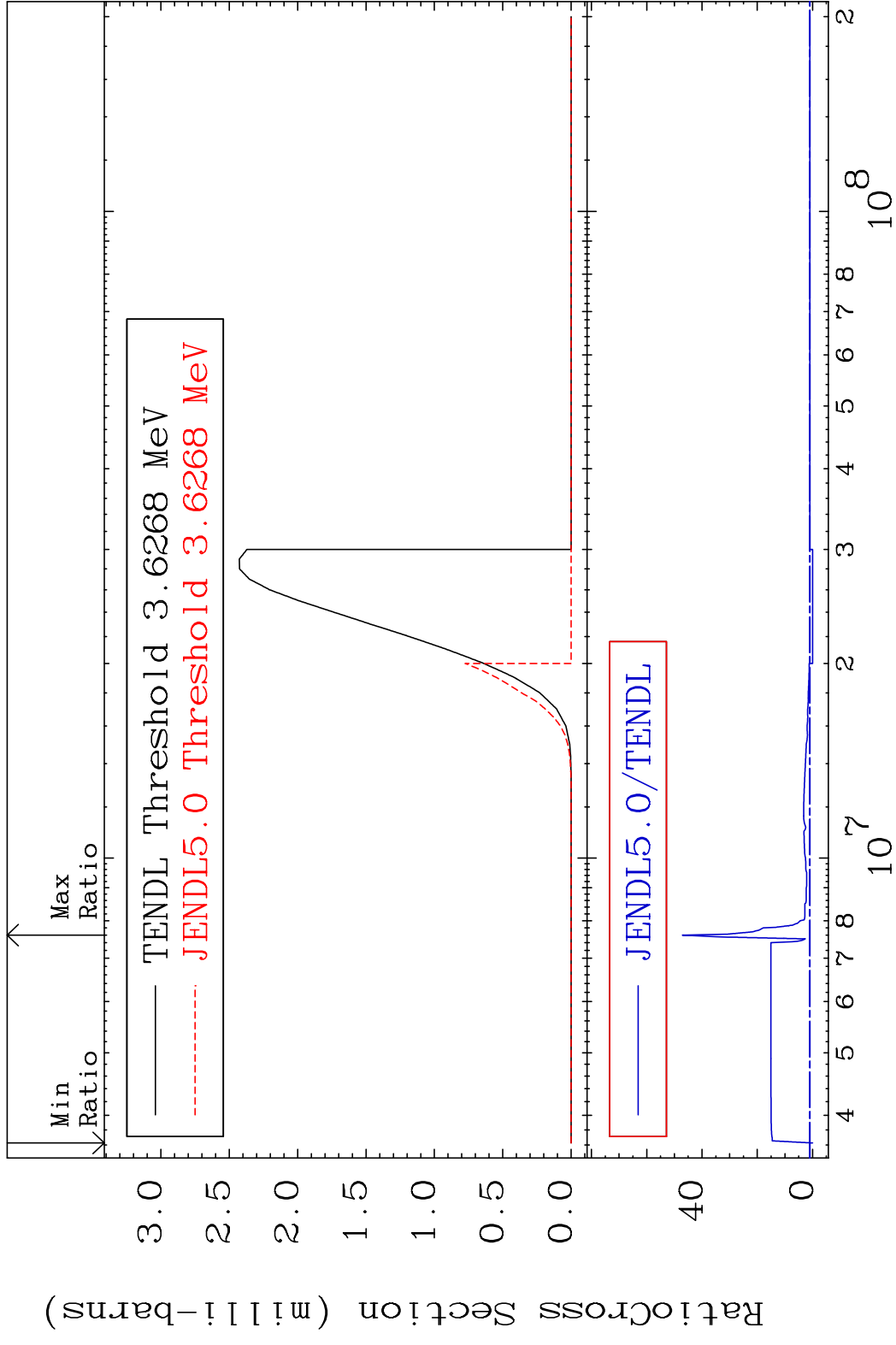


48 Incident Energy (eV) 35-Br-77

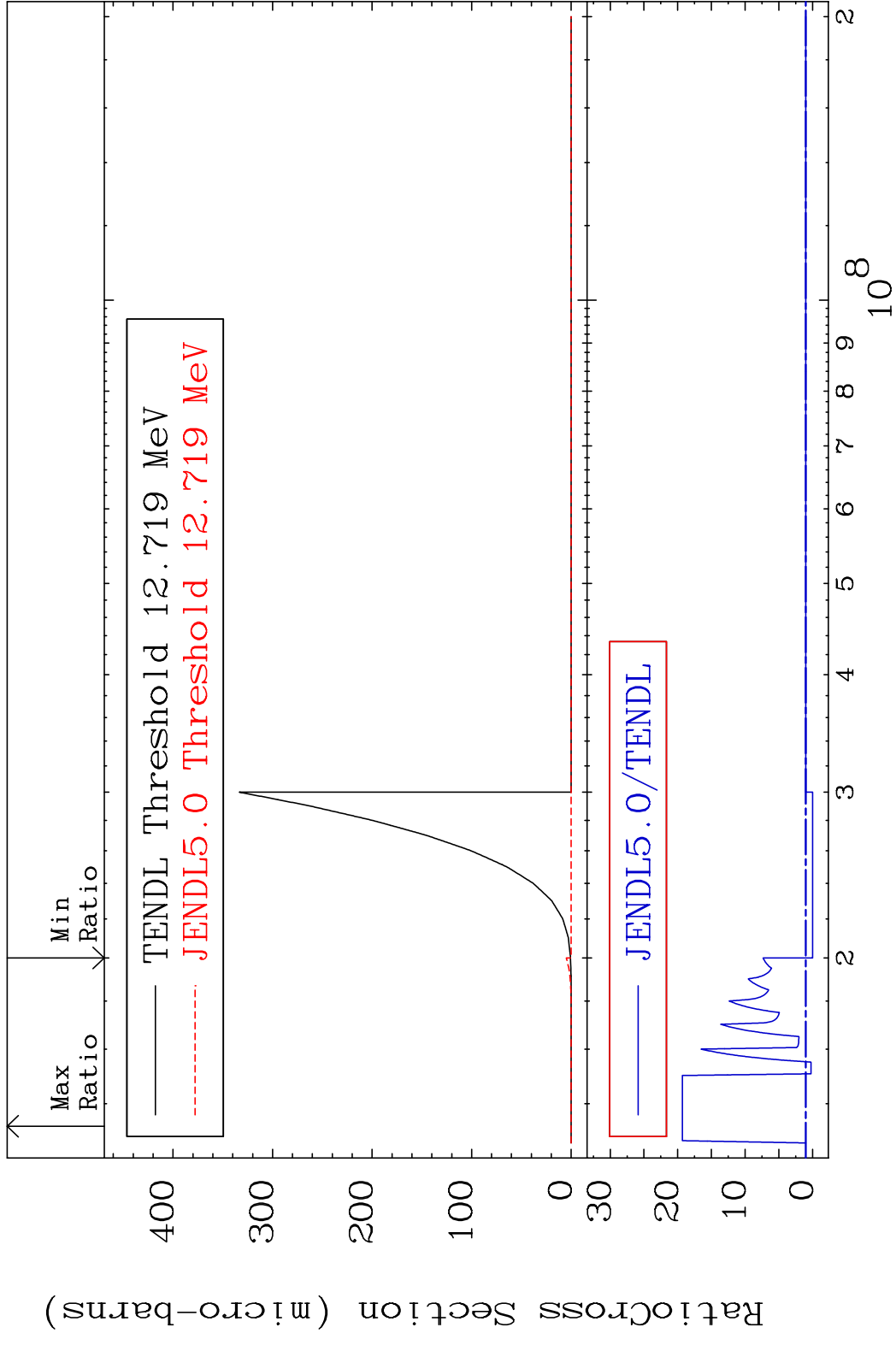
MAT 3519 (n,2p) 35-Br-77
 Cross Section -100.0 To 59.12 %



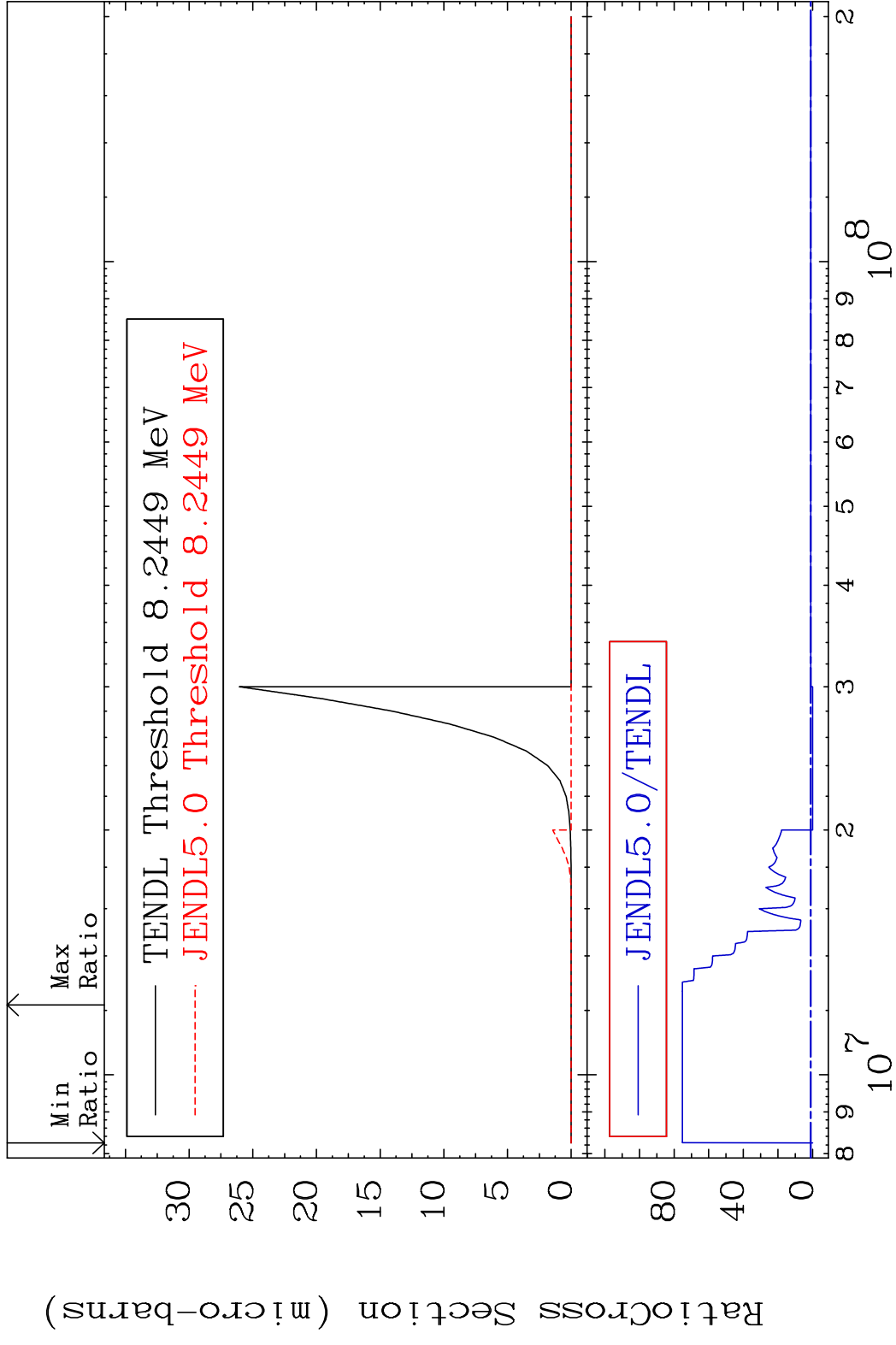
MAT 3519 (n,p) α 35-Br-77
 Cross Section -100.0 To 4611. %



MAT 3519 (n,p) d 35-Br-77
 Cross Section -100.0 To 1831. %



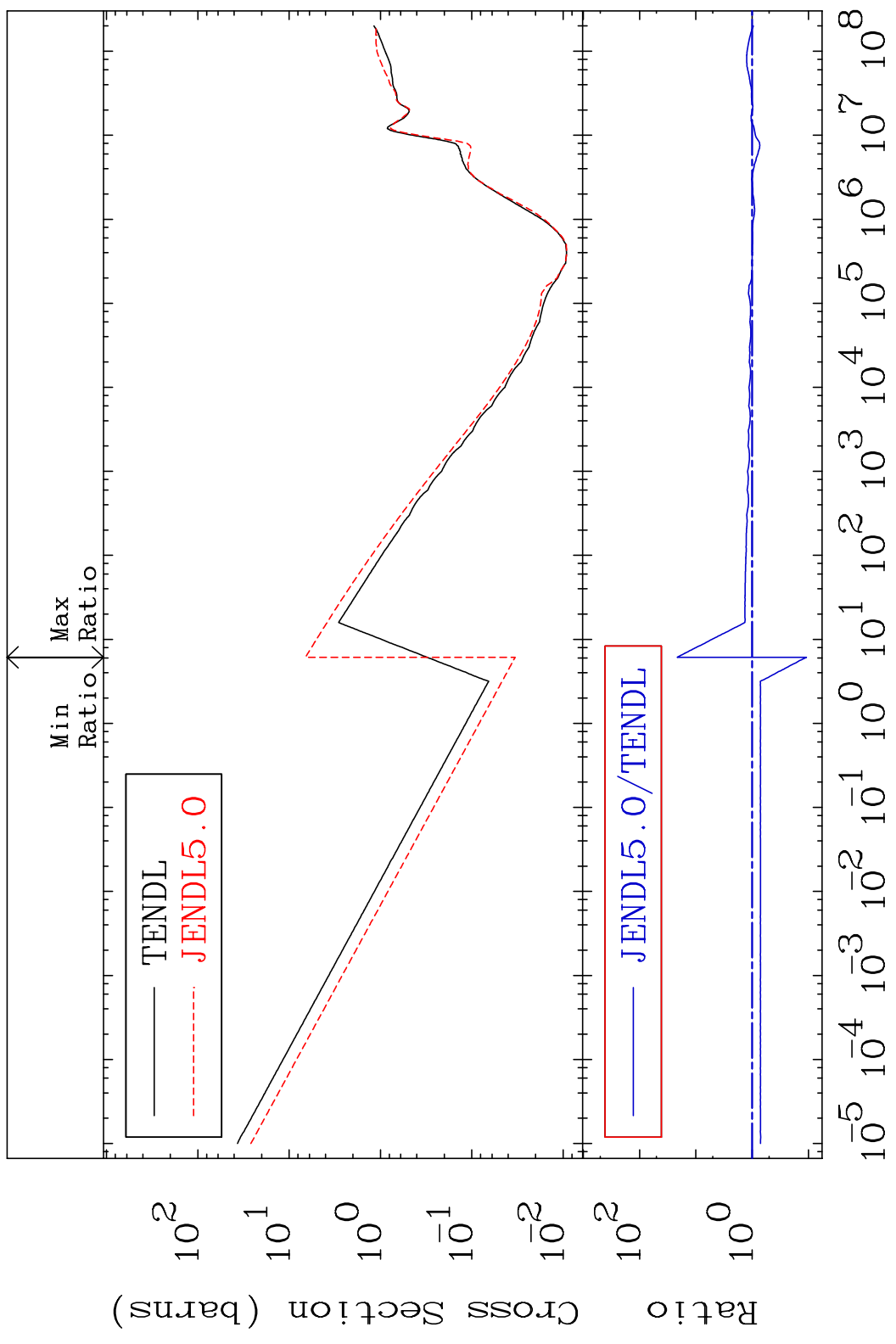
MAT 3519 (n,d) α 35-Br-77
 Cross Section -100.0 To 7423. %



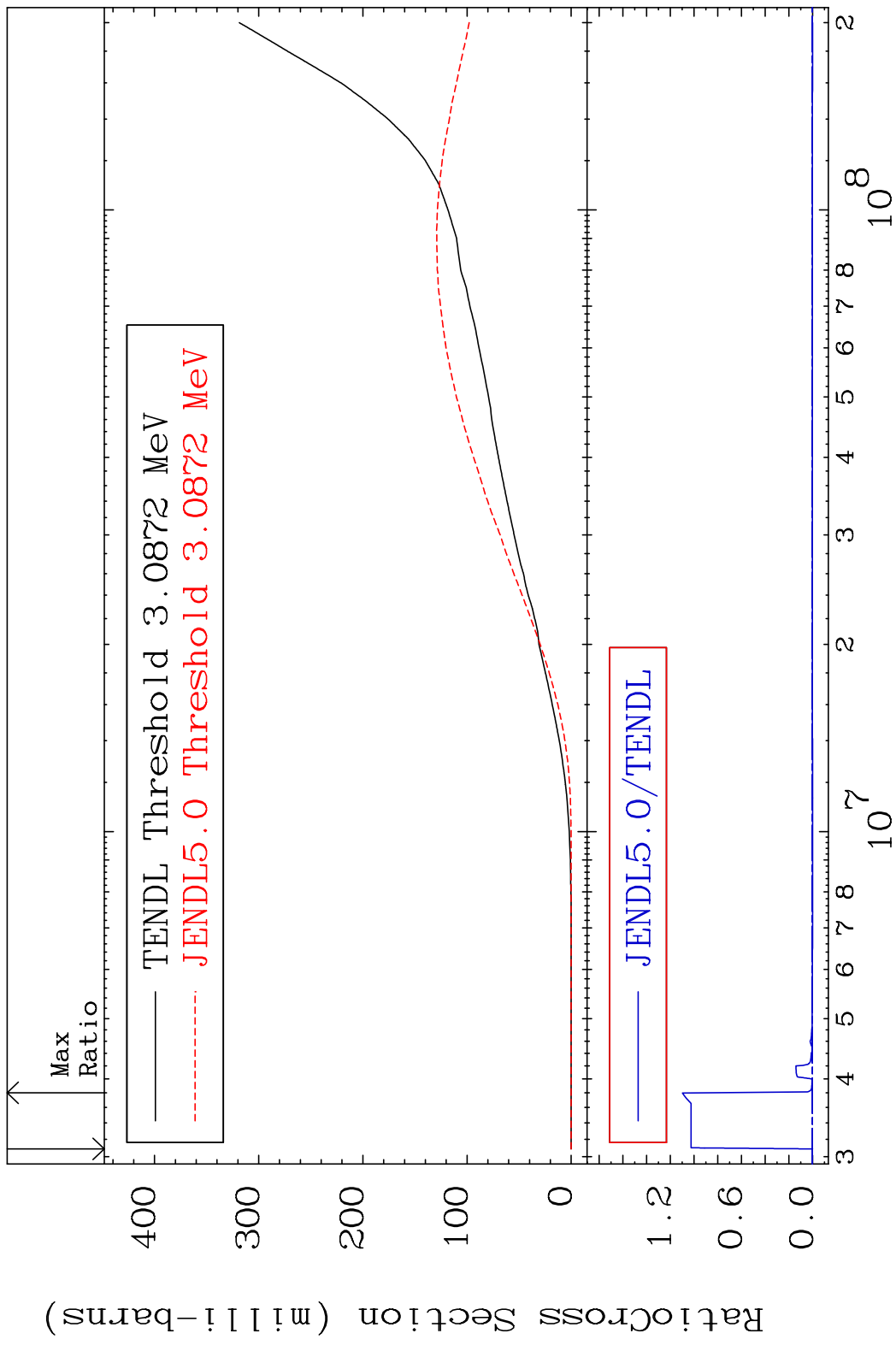
MAT 3519

Hydrogen Production
Cross Section -89.14 To 2046. %

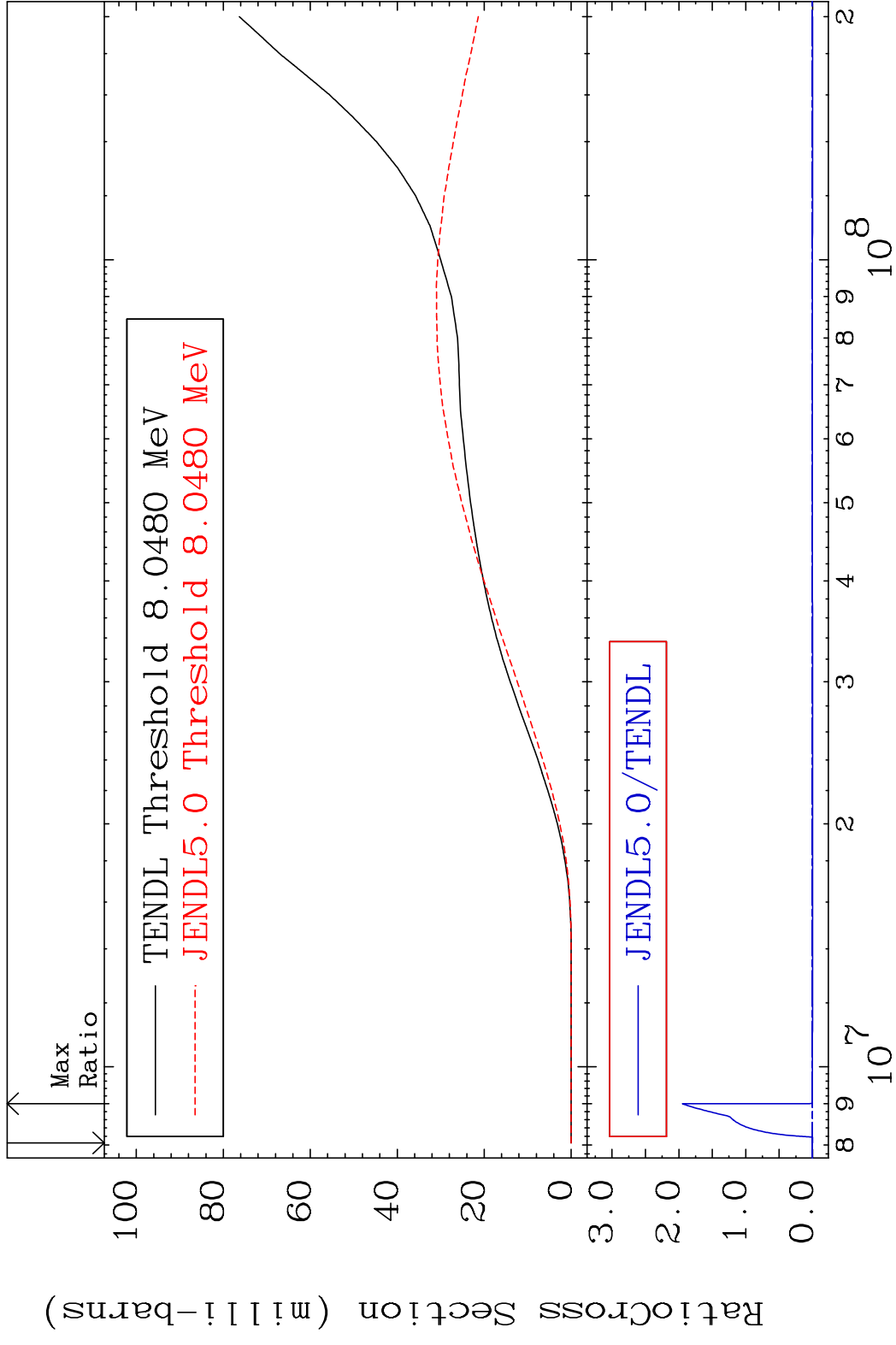
35-Br-77



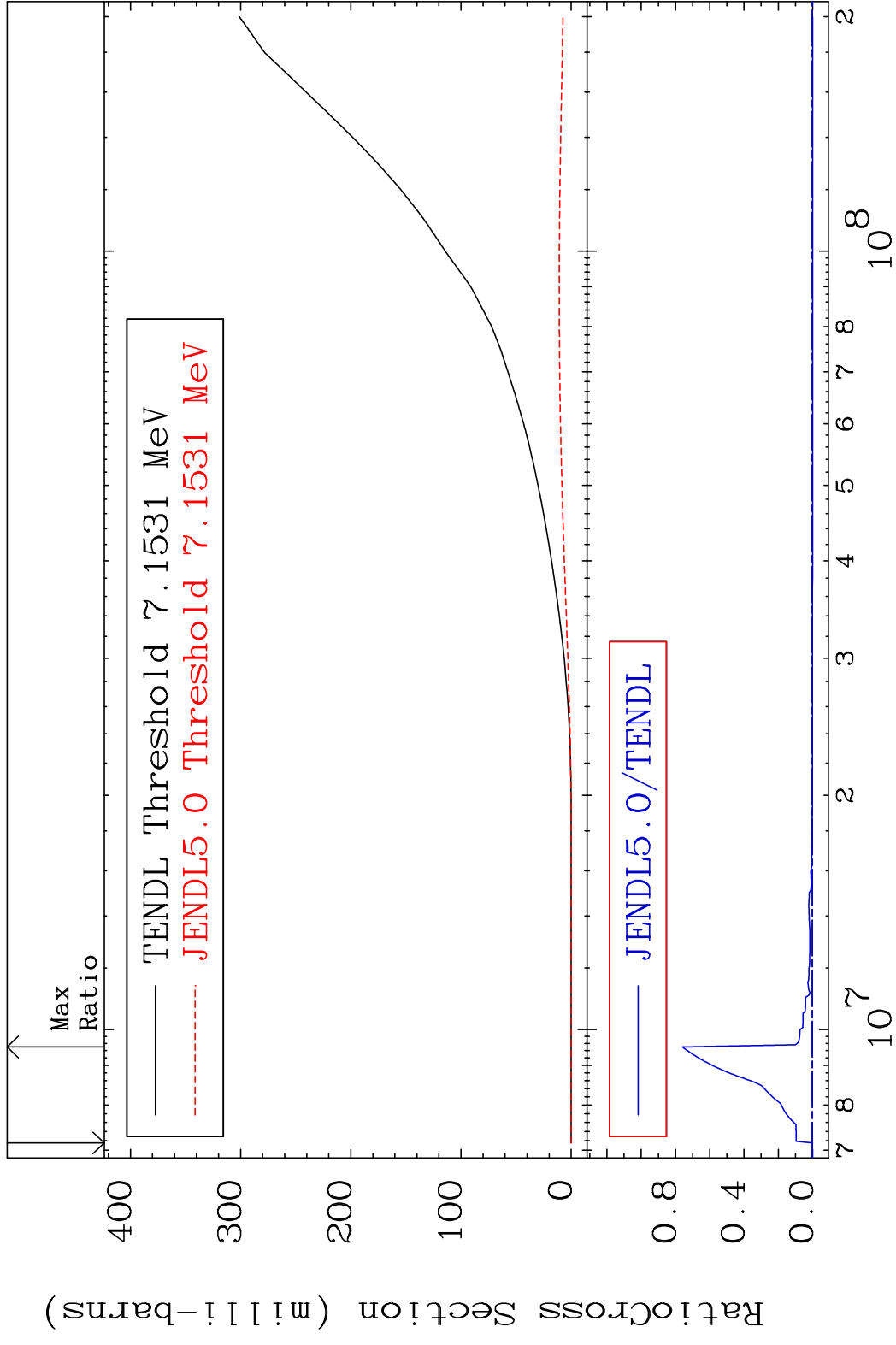
MAT 3519 Deuterium Production 35-Br-77
 Cross Section -100.0 To 9999. %



MAT 3519 Tritium Production 35-Br-77
 Cross Section -100.0 To 9999. %



MAT 3519 He-3 Production 35-Br-77
 Cross Section -100.0 To 9999. %

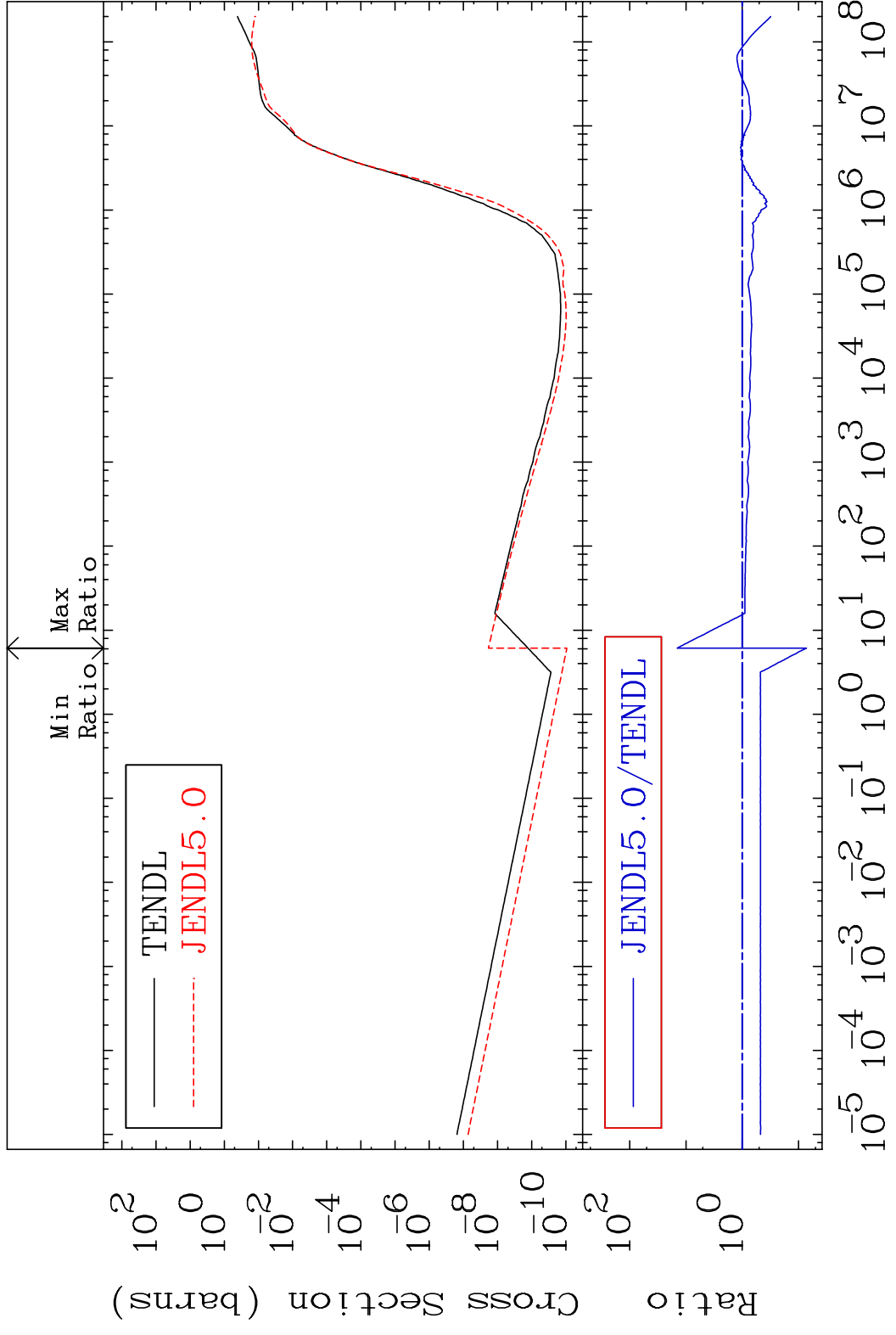


MAT 3519

He-4 Production

35-Br-77

Cross Section -92.76 To 1331. %

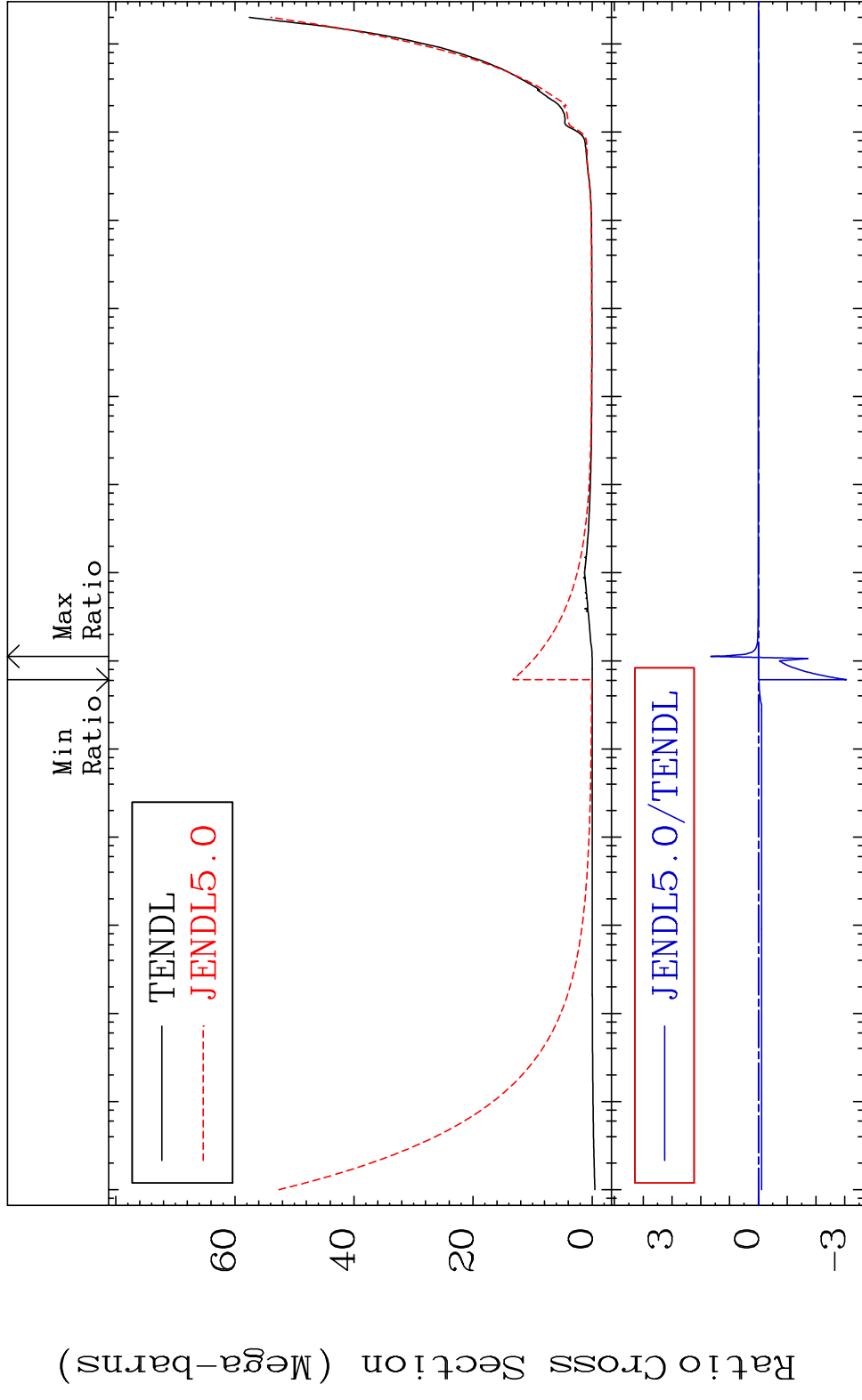


57

Incident Energy (eV)

35-Br-77

MAT 3519 Kerma total (eV-barns) 35-Br-77
 Cross Section -9999. To 9999. %



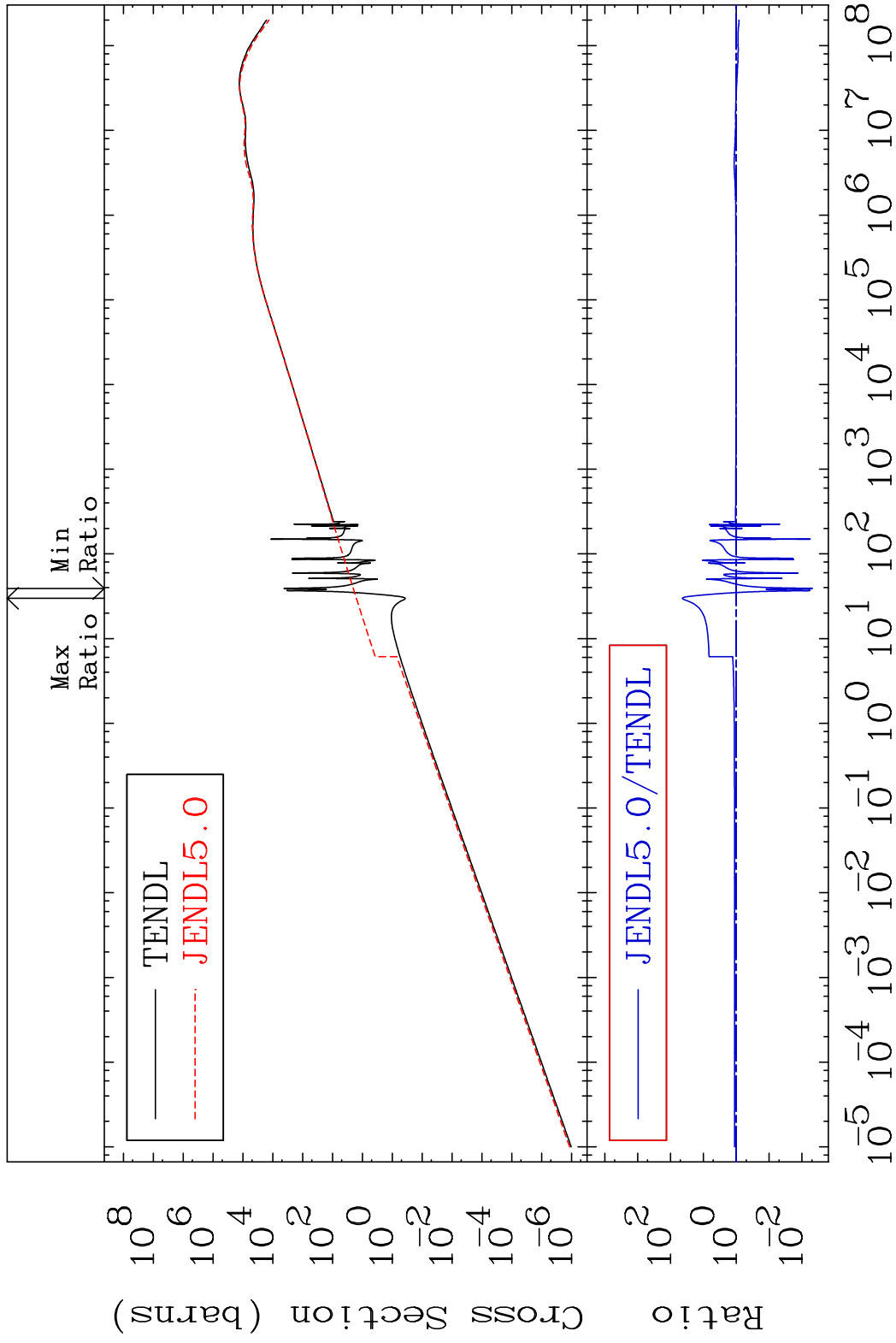
58 Incident Energy (eV) 35-Br-77

MAT 3519

Kerma elastic

35-Br-77

Cross Section -99.52 To 4263. %

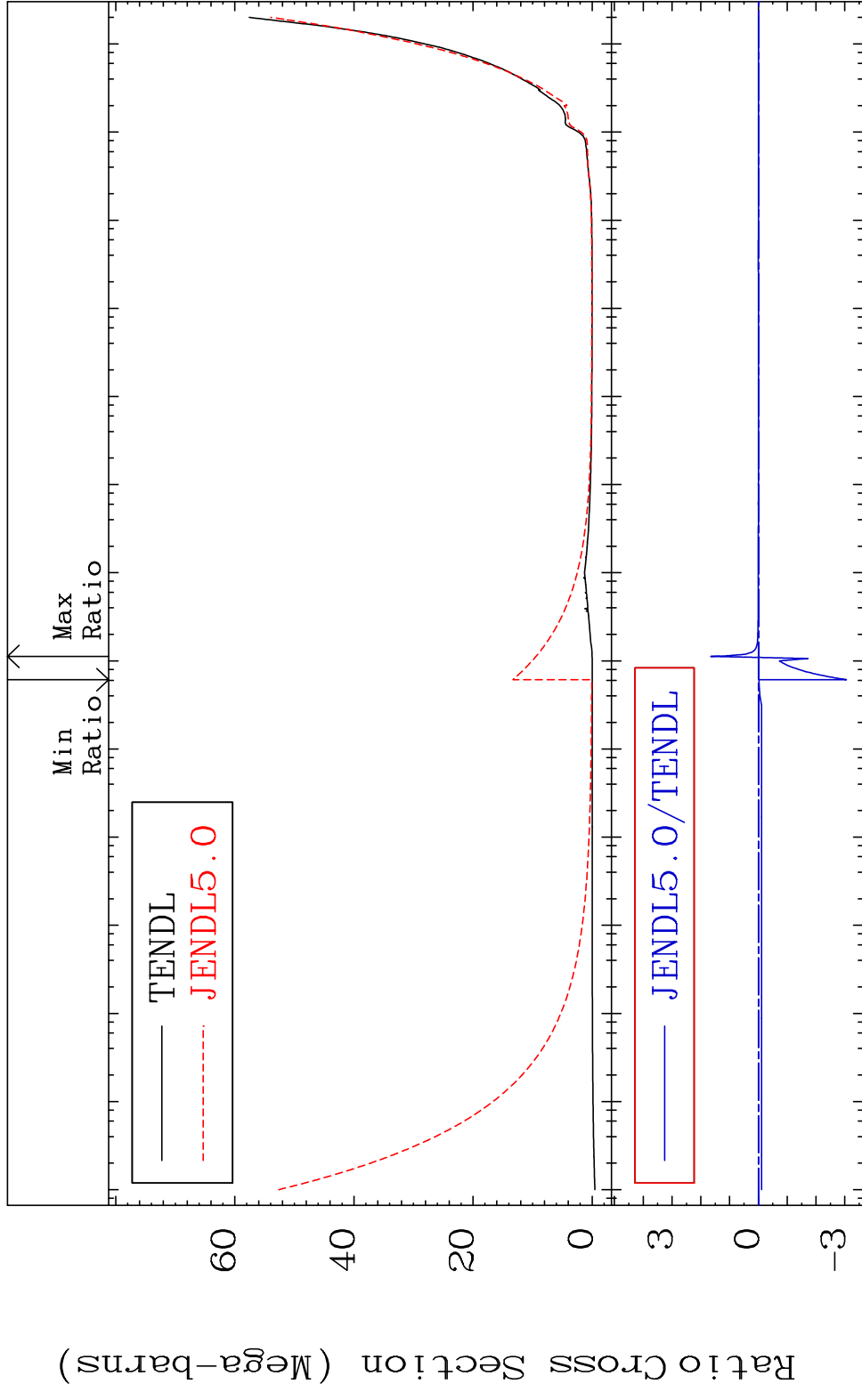


59

Incident Energy (eV)

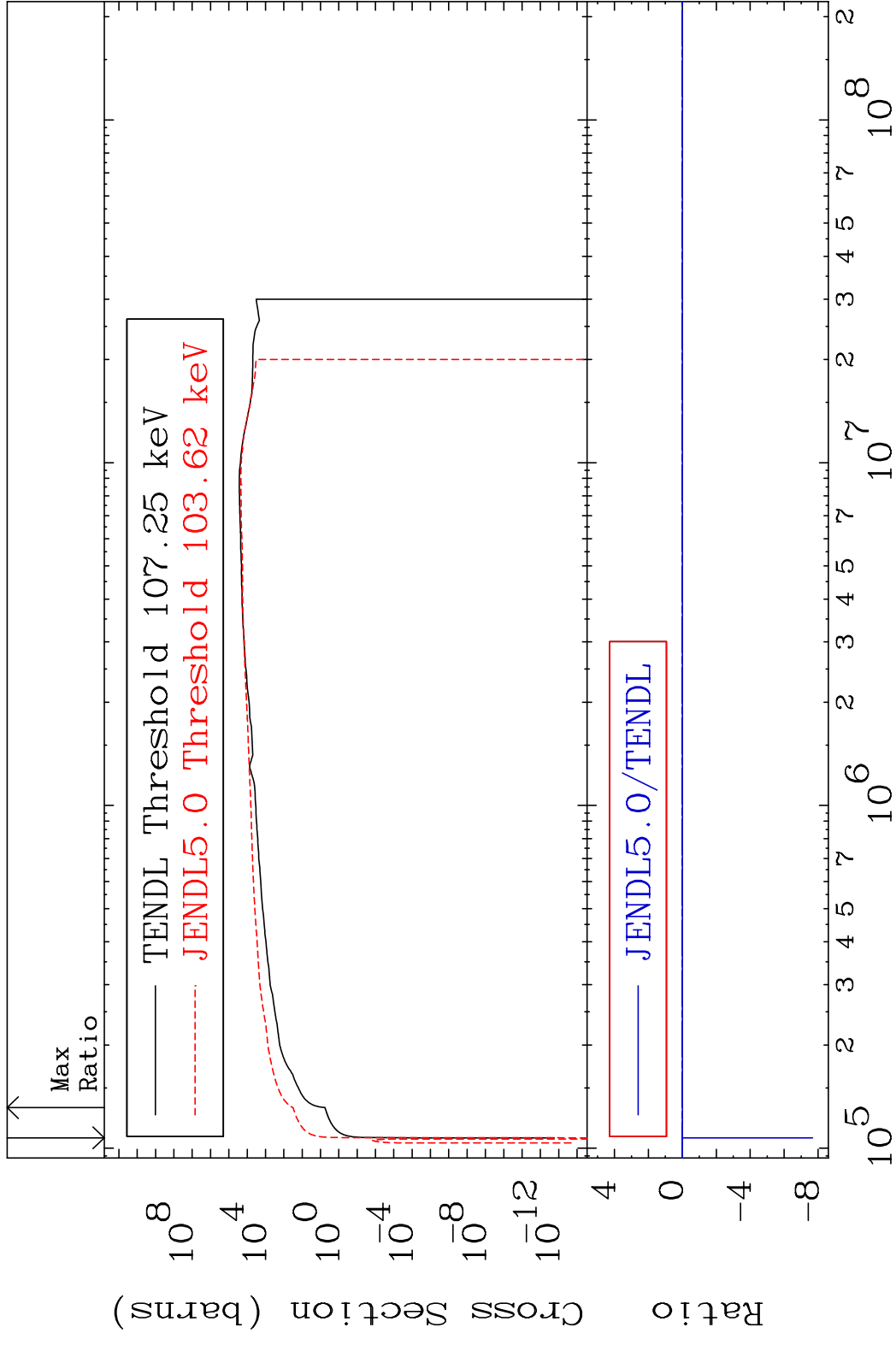
35-Br-77

MAT 3519 Kerma non-elastic (all but mt2) 35-Br-77
 Cross Section -9999. To 9999. %



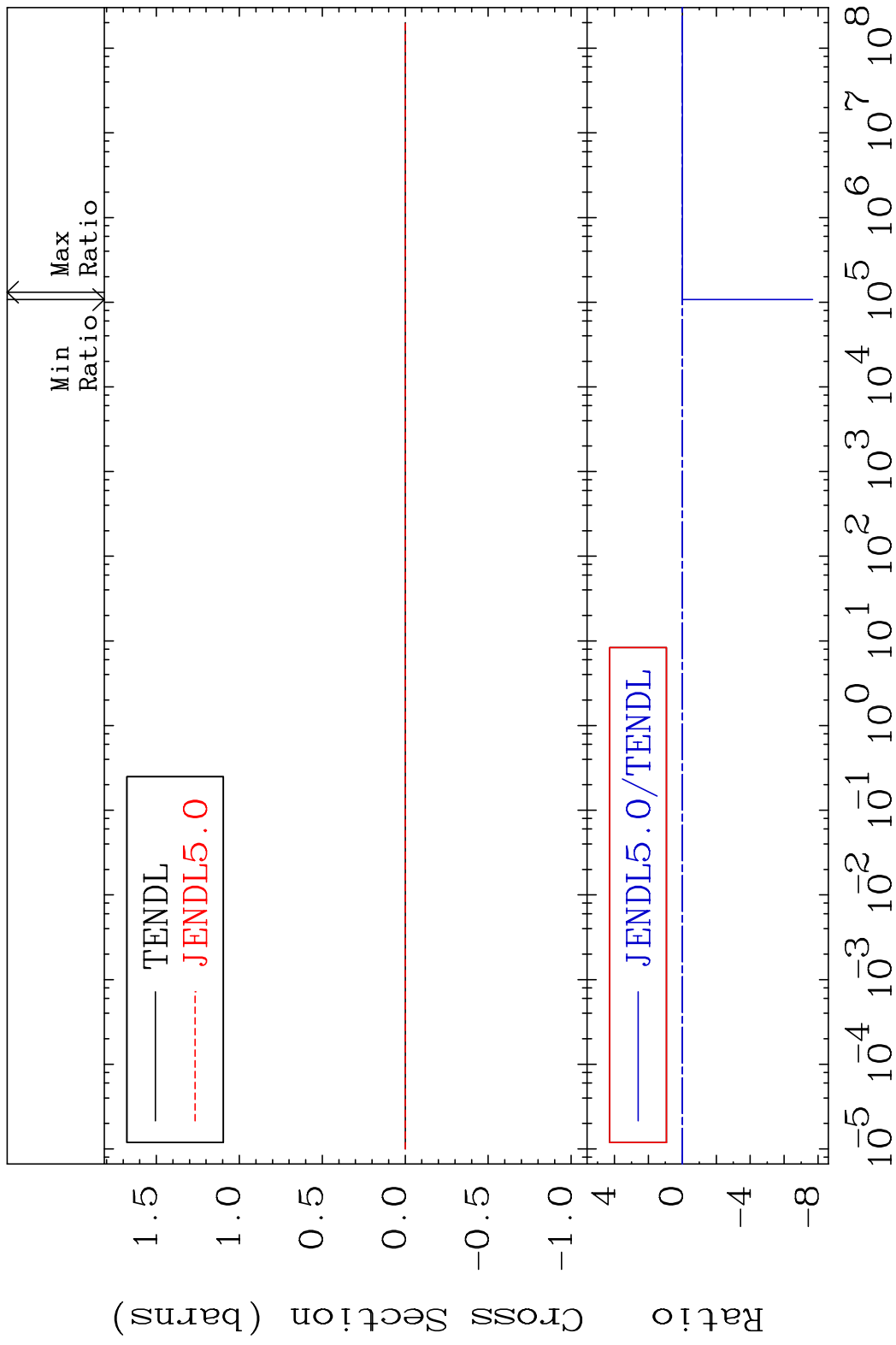
60 Incident Energy (eV) 35-Br-77

MAT 3519 Kerma inelastic (mt51-91) 35-Br-77
 Cross Section -9999. To 5422. %



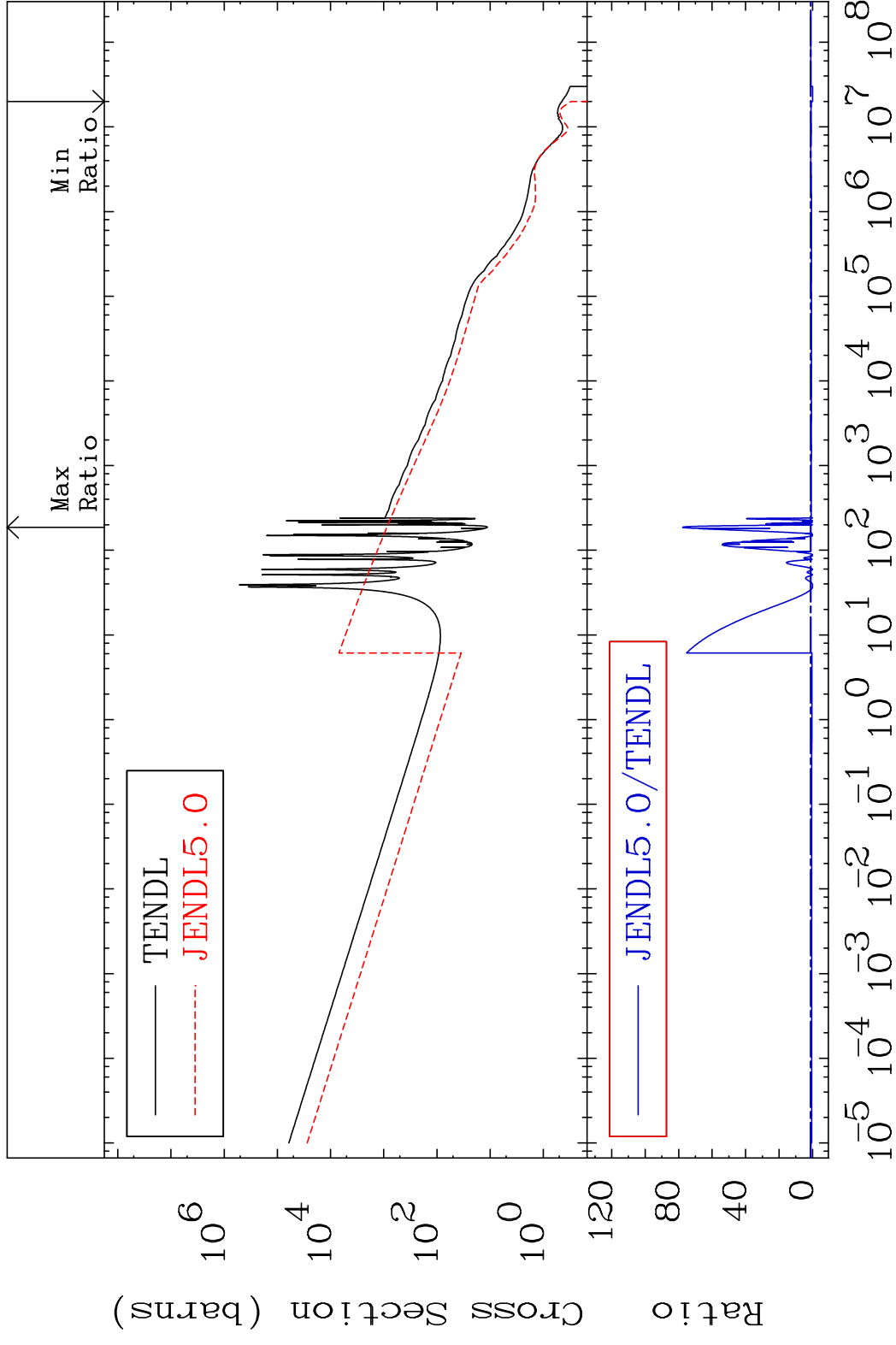
61 Incident Energy (eV) 35-Br-77

MAT 3519 Kerma fission (mt18 or mt19-20-21-38) 35-Br-77
 Cross Section -9999. To 5422. %

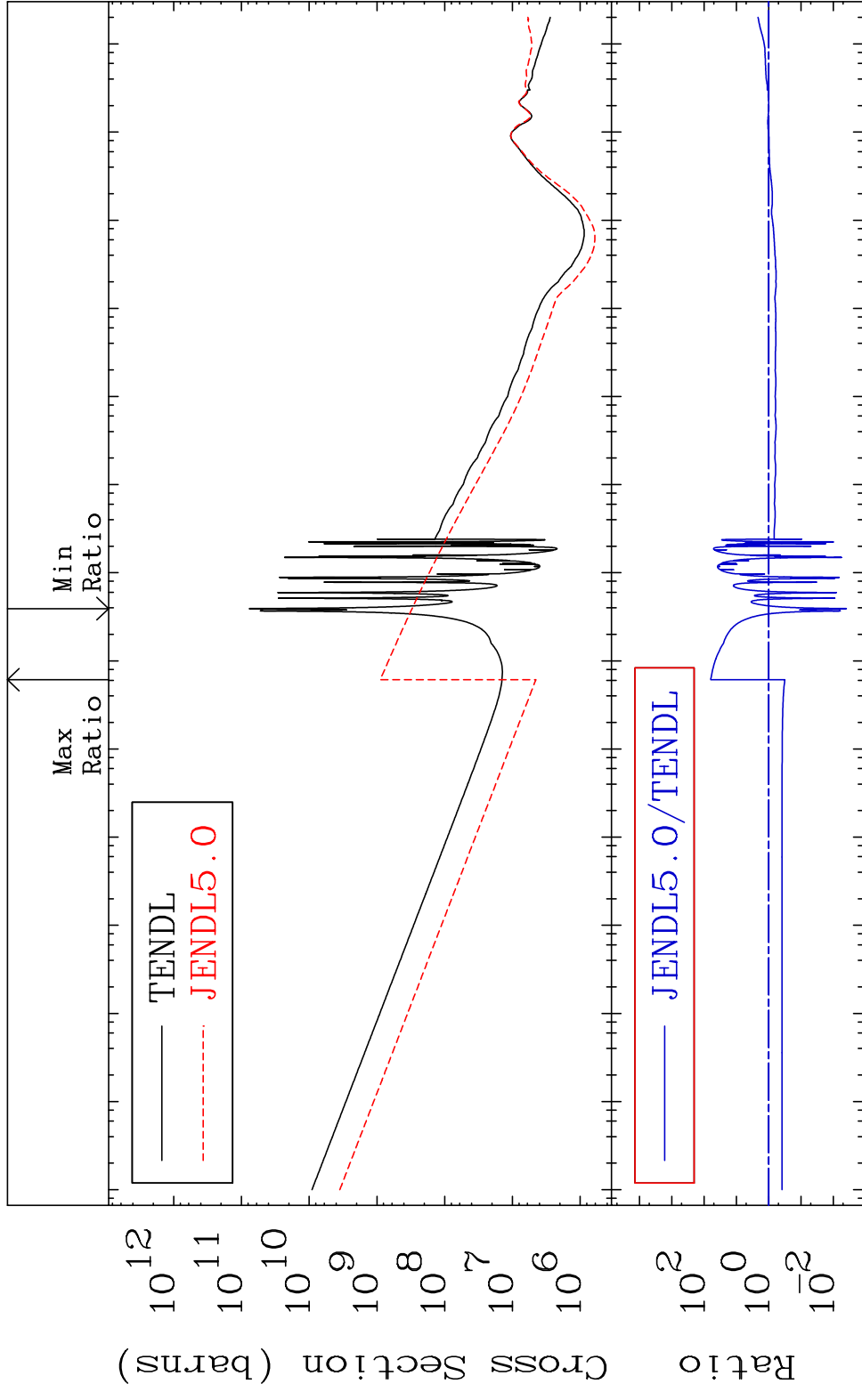


MAT 3519

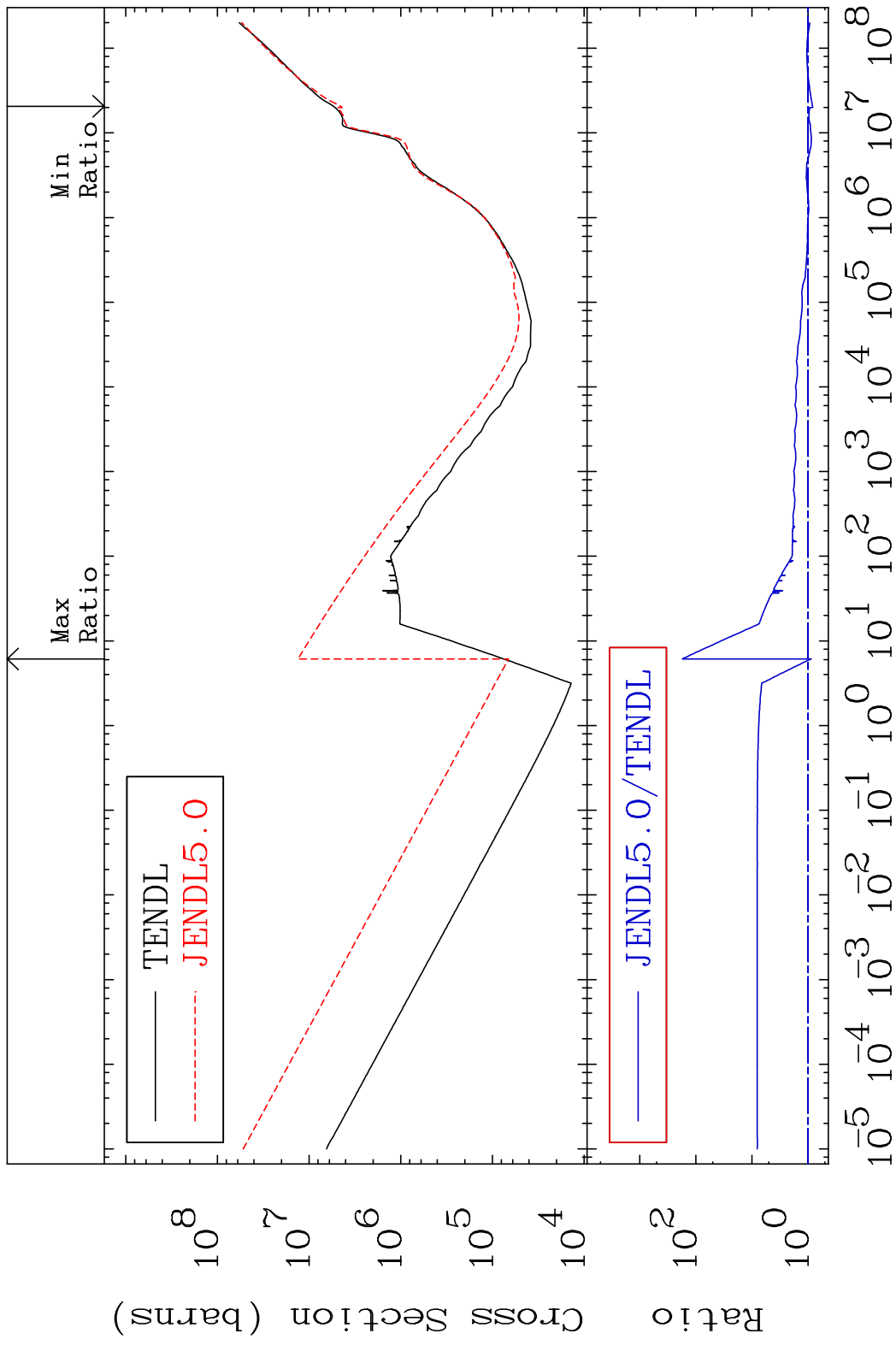
Kerma capture (mt102) 35-Br-77
Cross Section -100.0 To 7679. %



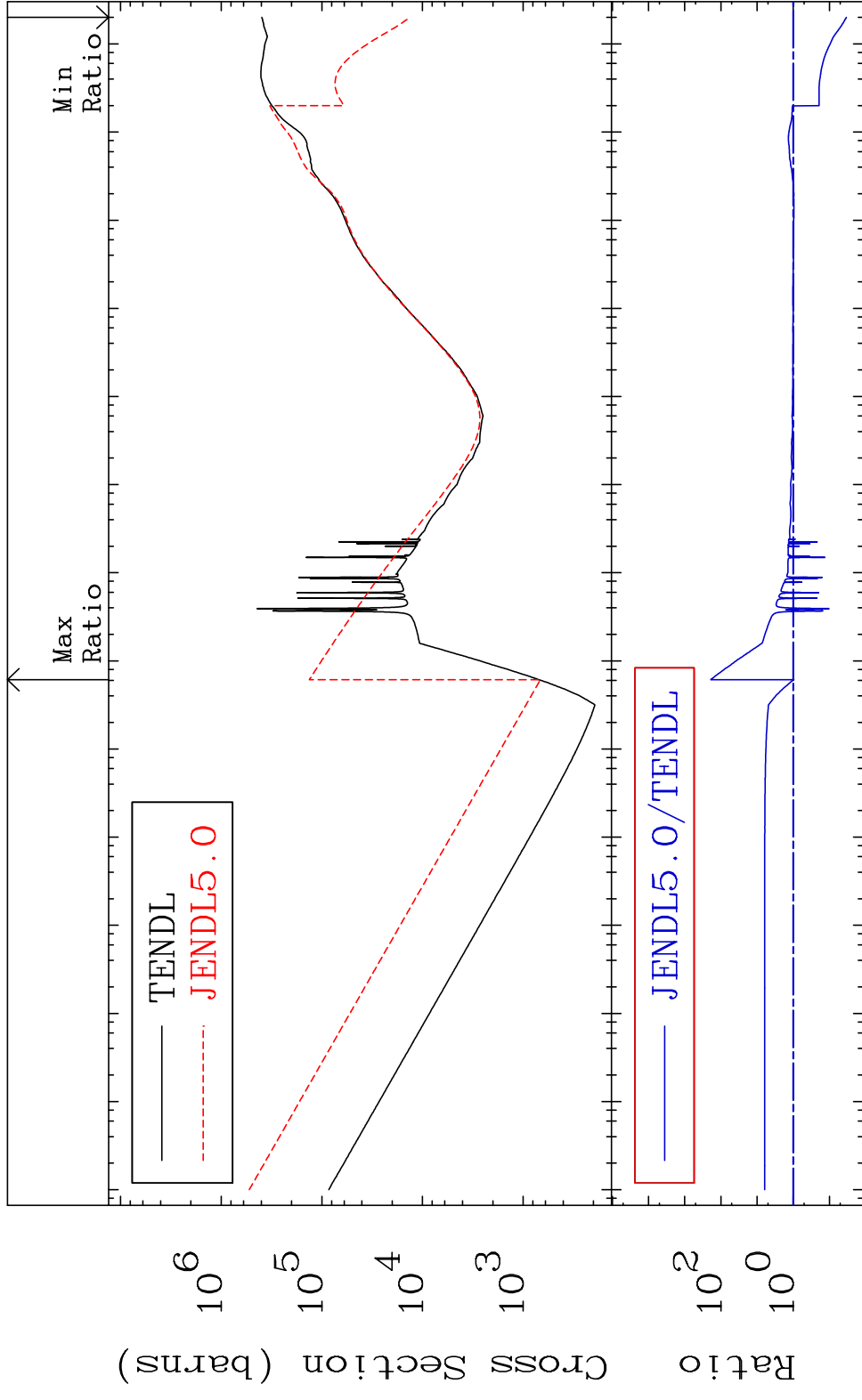
MAT 3519 Total photon (eV-barns) 35-Br-77
 Cross Section -99.60 To 6150. %



MAT 3519 Total kinematic kerma (high limit) 35-Br-77
 Cross Section -16.69 To 9999. %



MAT 3519 Dpa total (eV-barns) 35-Br-77
 Cross Section -96.59 To 9999. %

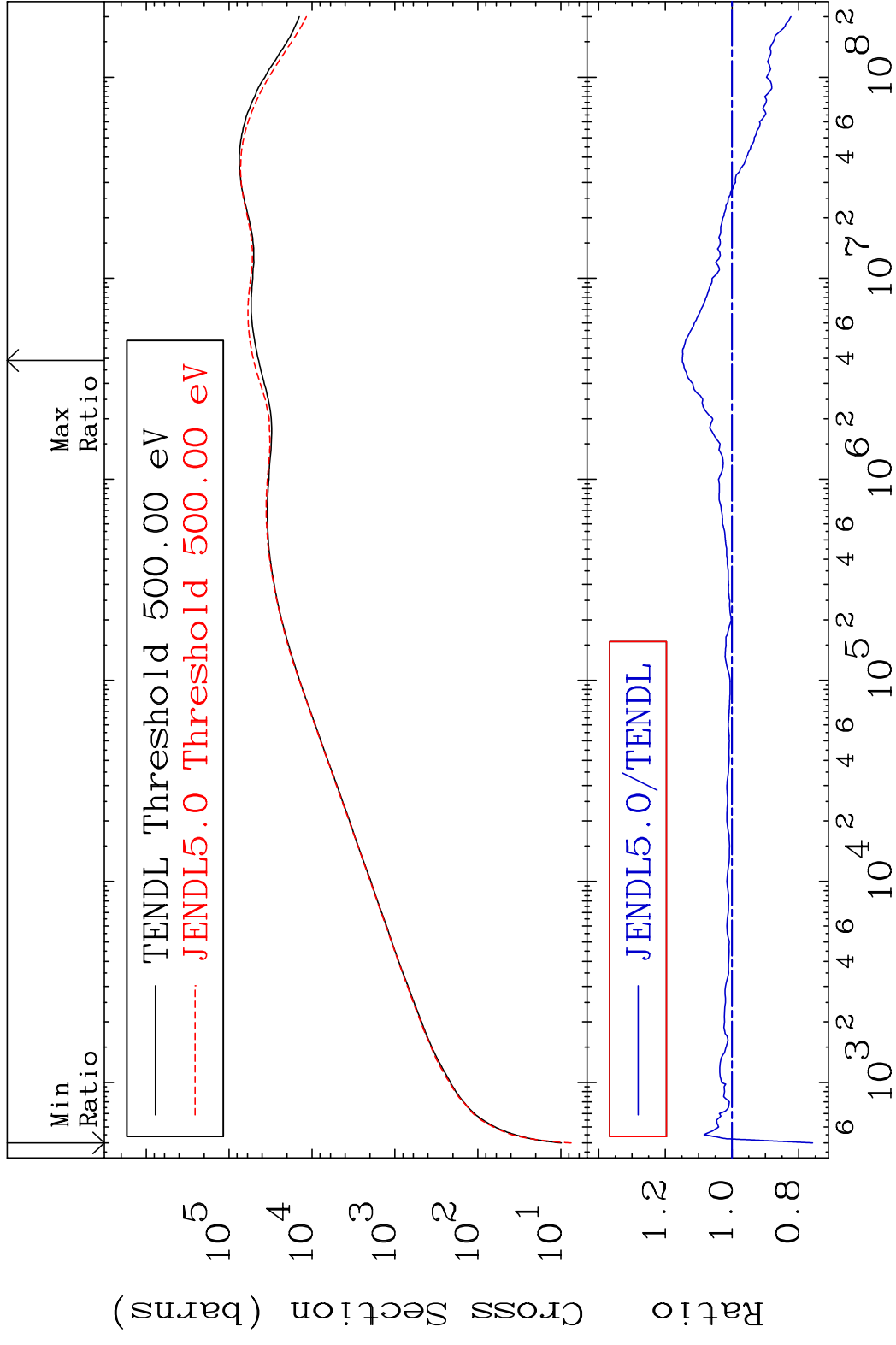


MAT 3519

Dpa elastic (mt2)

35-Br-77

Cross Section -24.15 To 14.89 %

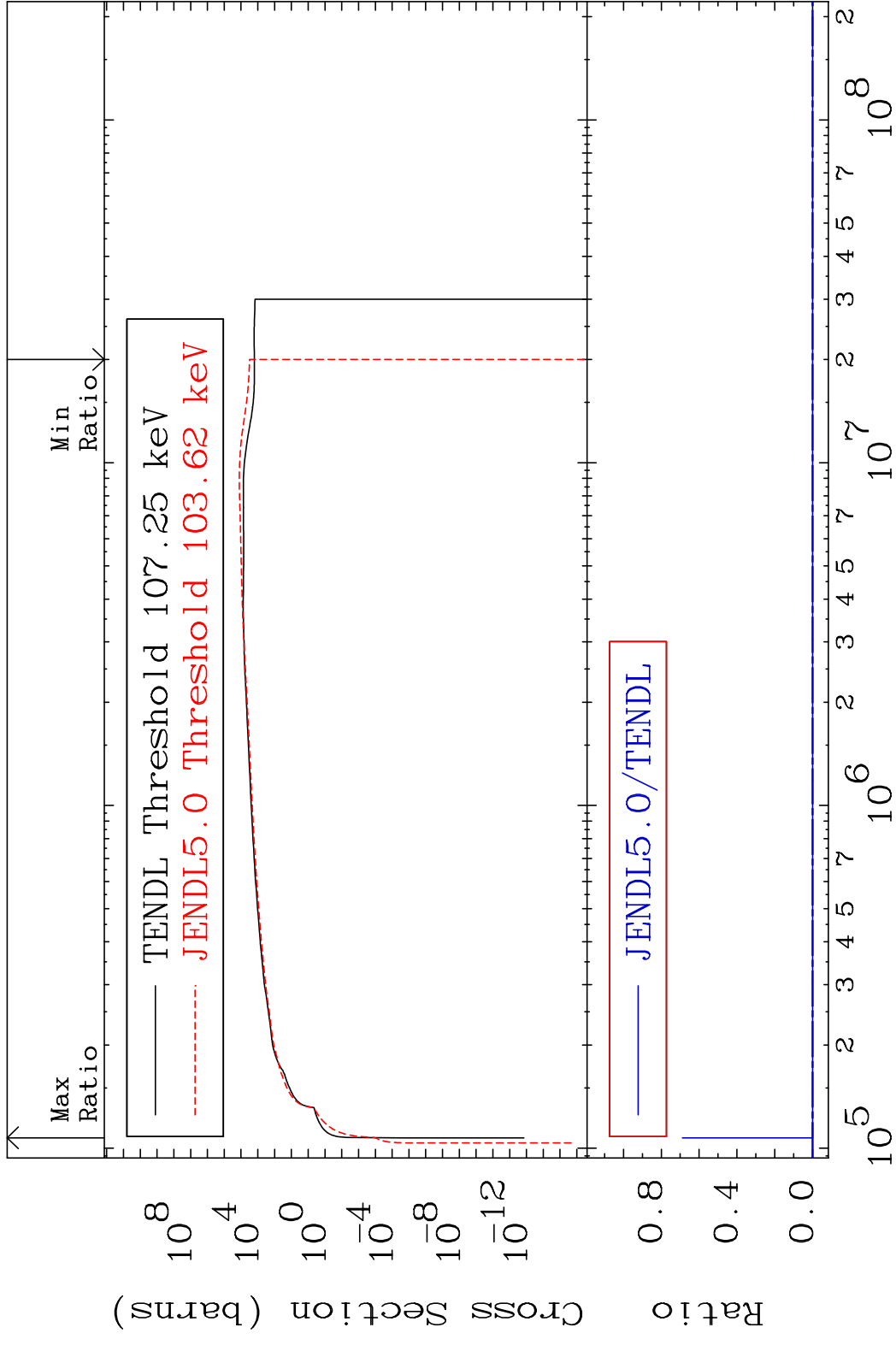


67

Incident Energy (eV)

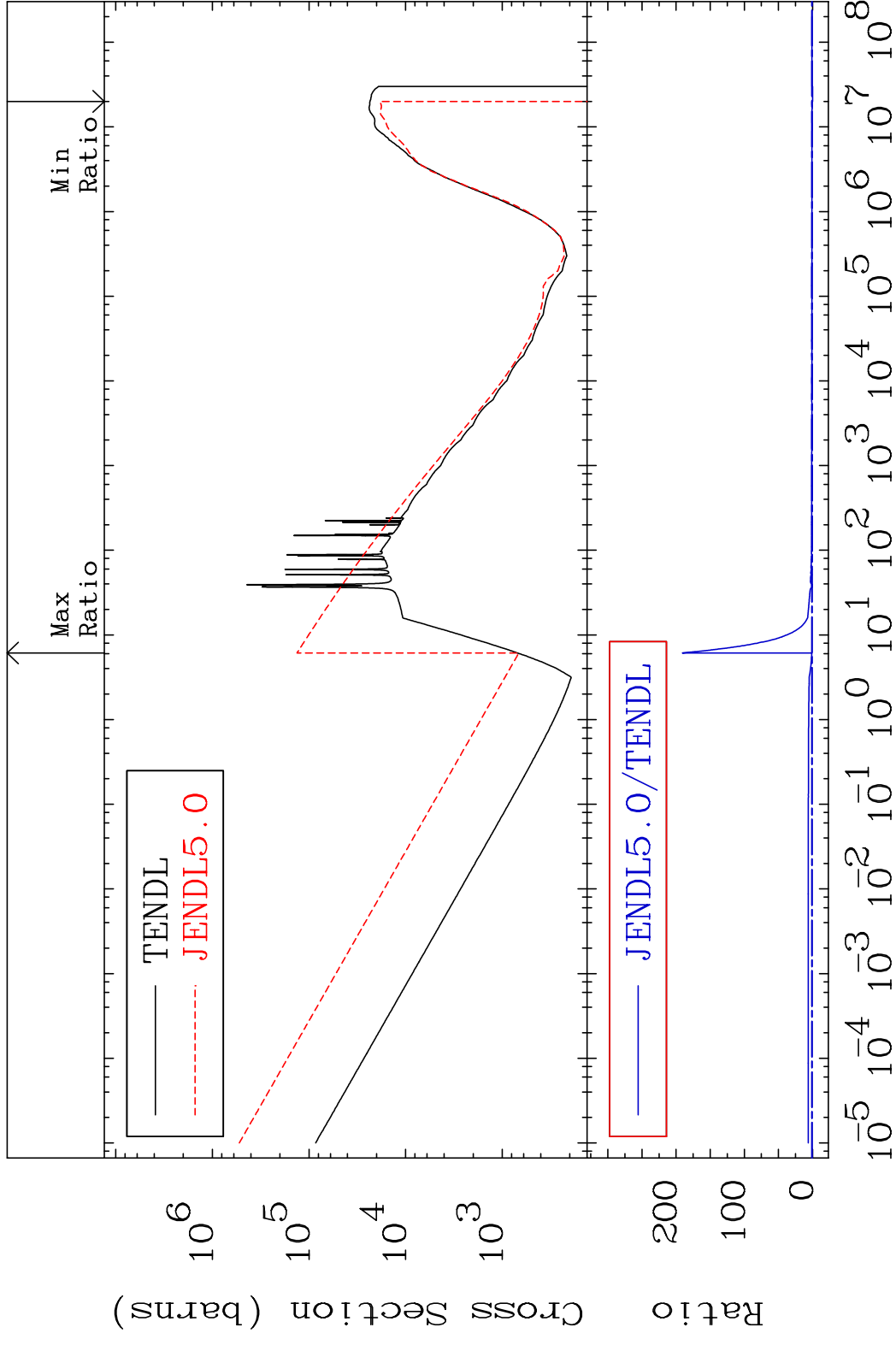
35-Br-77

MAT 3519 Dpa inelastic (mt51-91) 35-Br-77
 Cross Section -100.0 To 9999. %

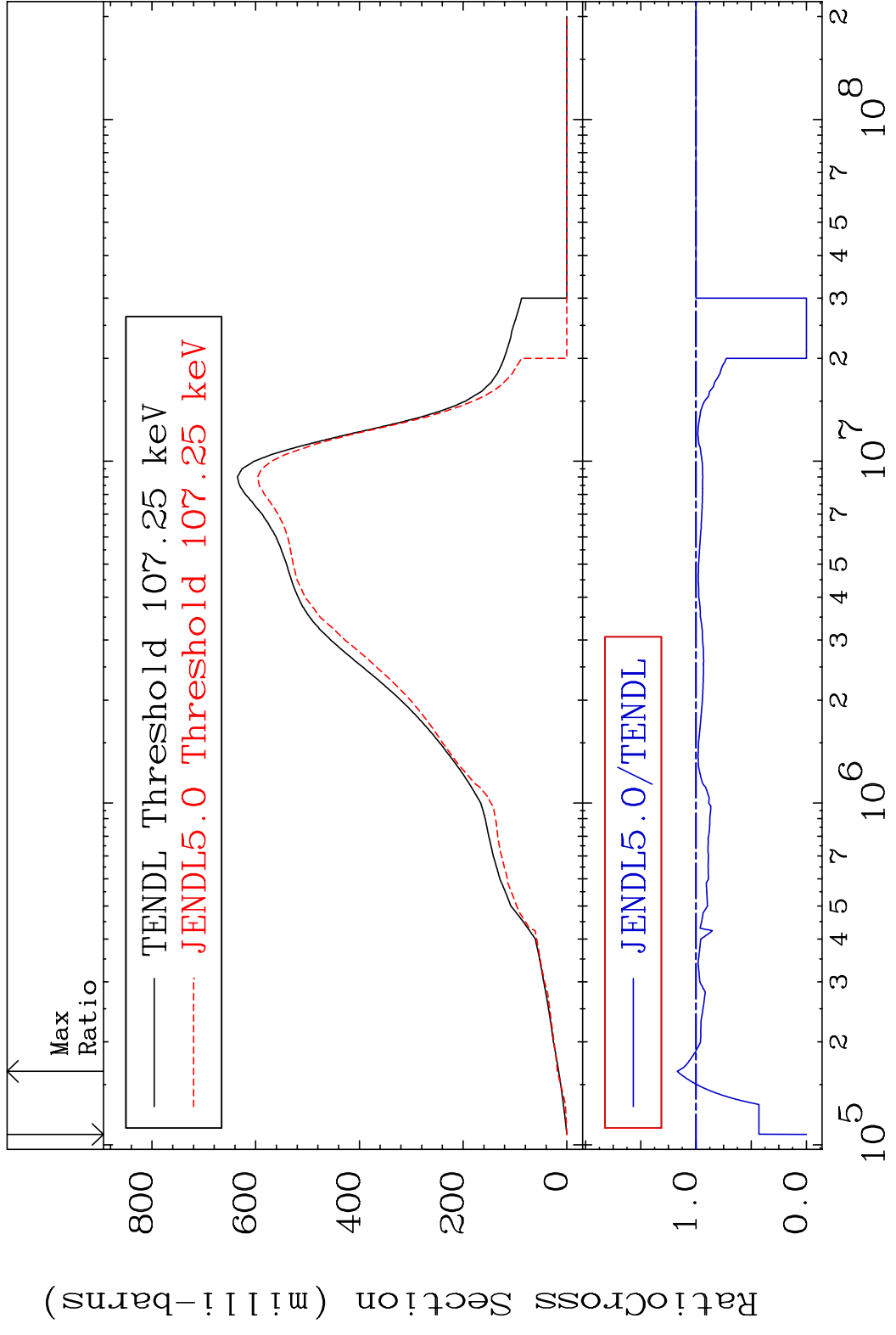


68 Incident Energy (eV) 35-Br-77

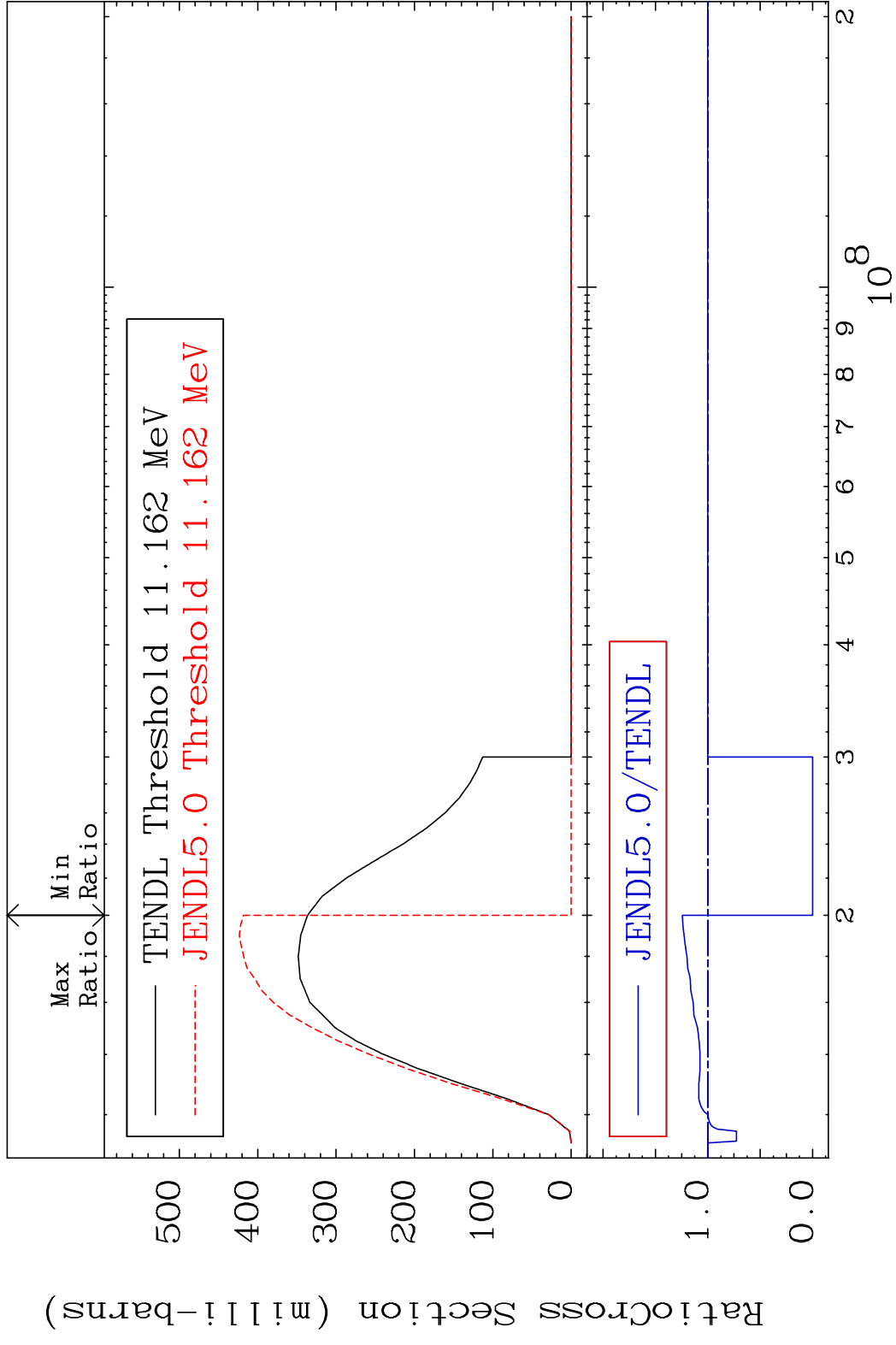
MAT 3519 Dpa disappearance (mt102 -120) 35-Br-77
 Cross Section -100.0 To 9999. %

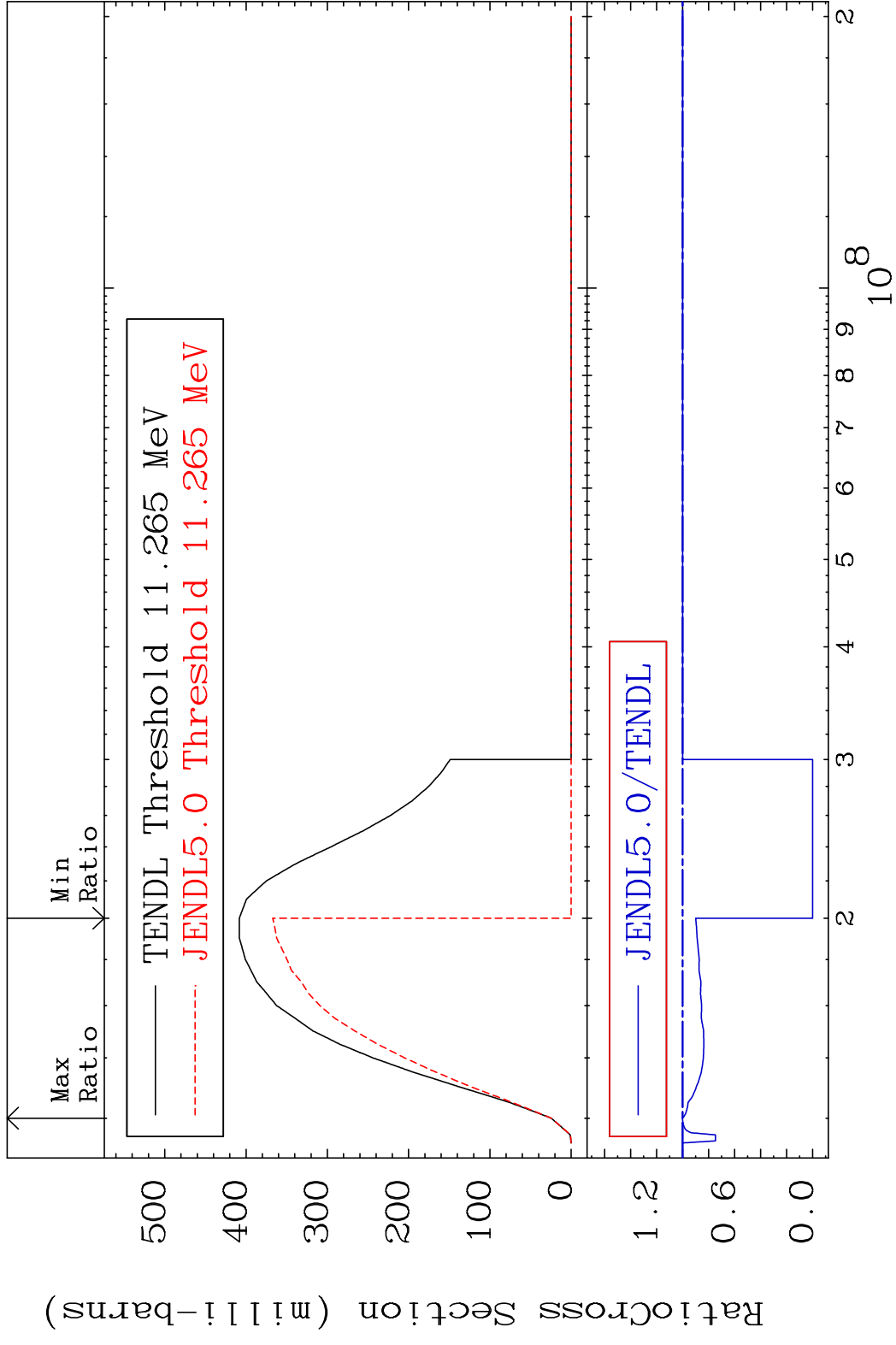


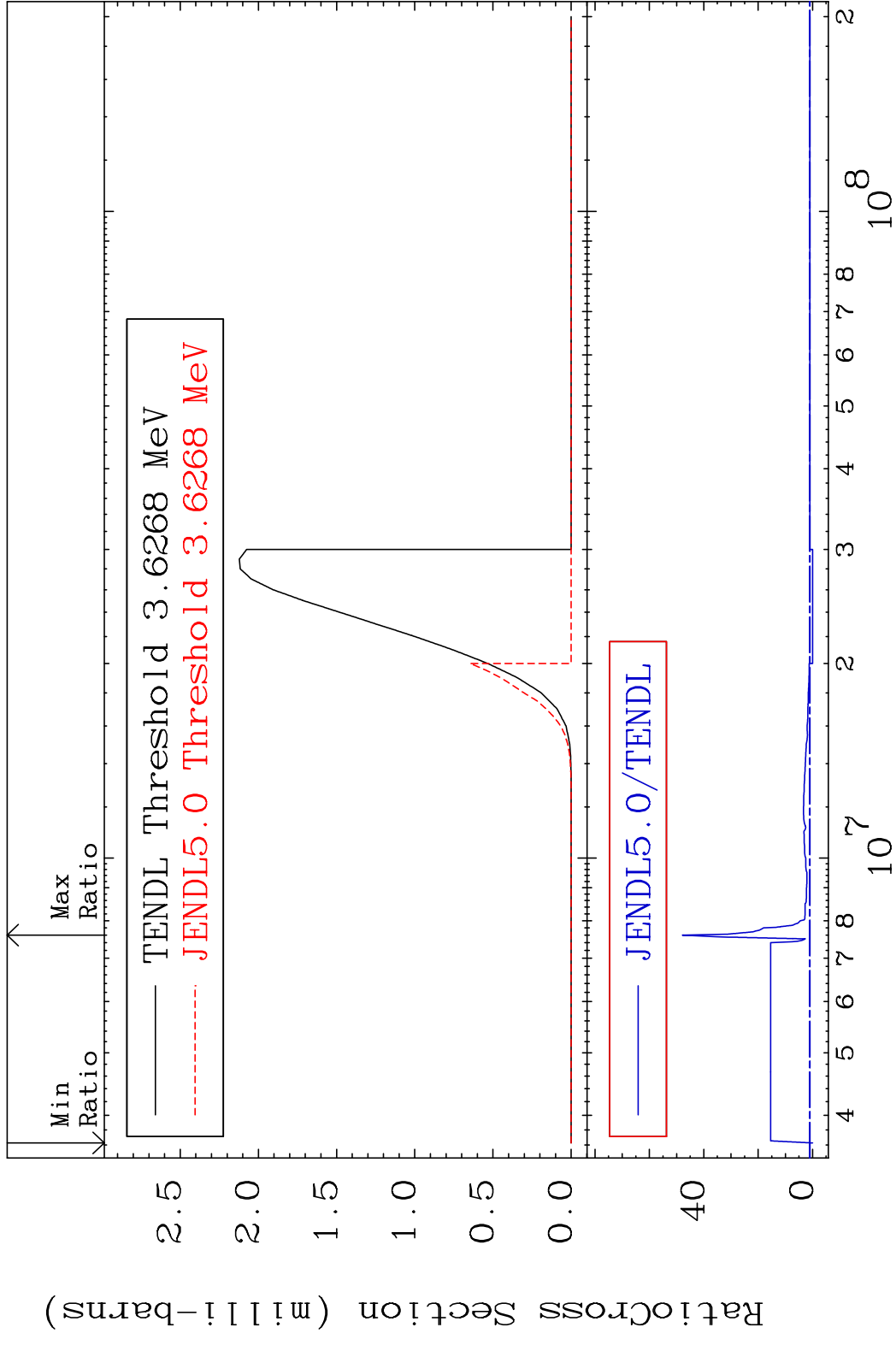
MAT 3519 Inelastic:35-Br-77m1 35-Br-77
 Radionuclide Production Cross Section Ratio 16.99 %

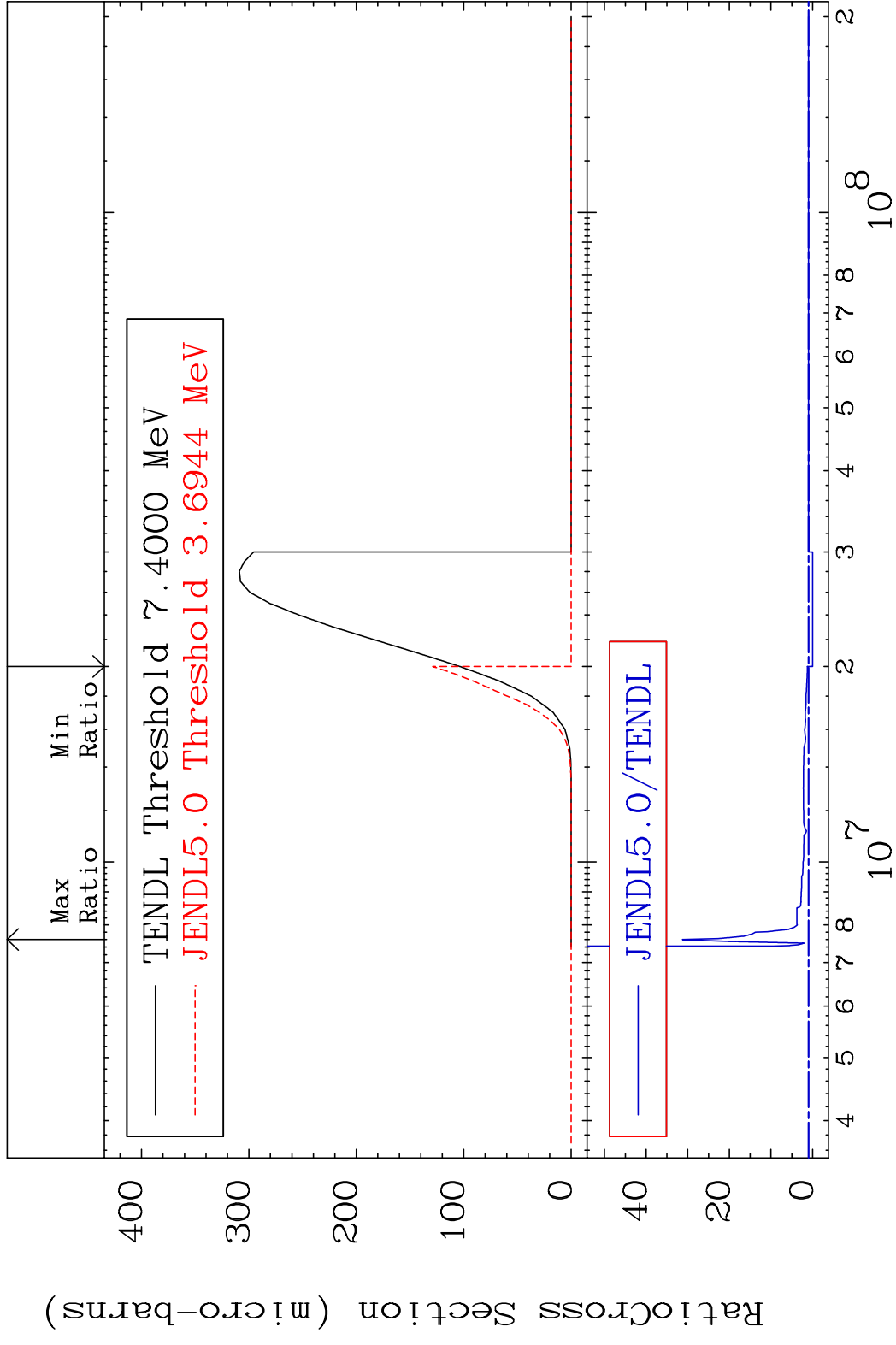


MAT 3519 (n,2n):35-Br-76g 35-Br-77
 Radionuclide Production Cross Section 180.01 dth 24.31 %







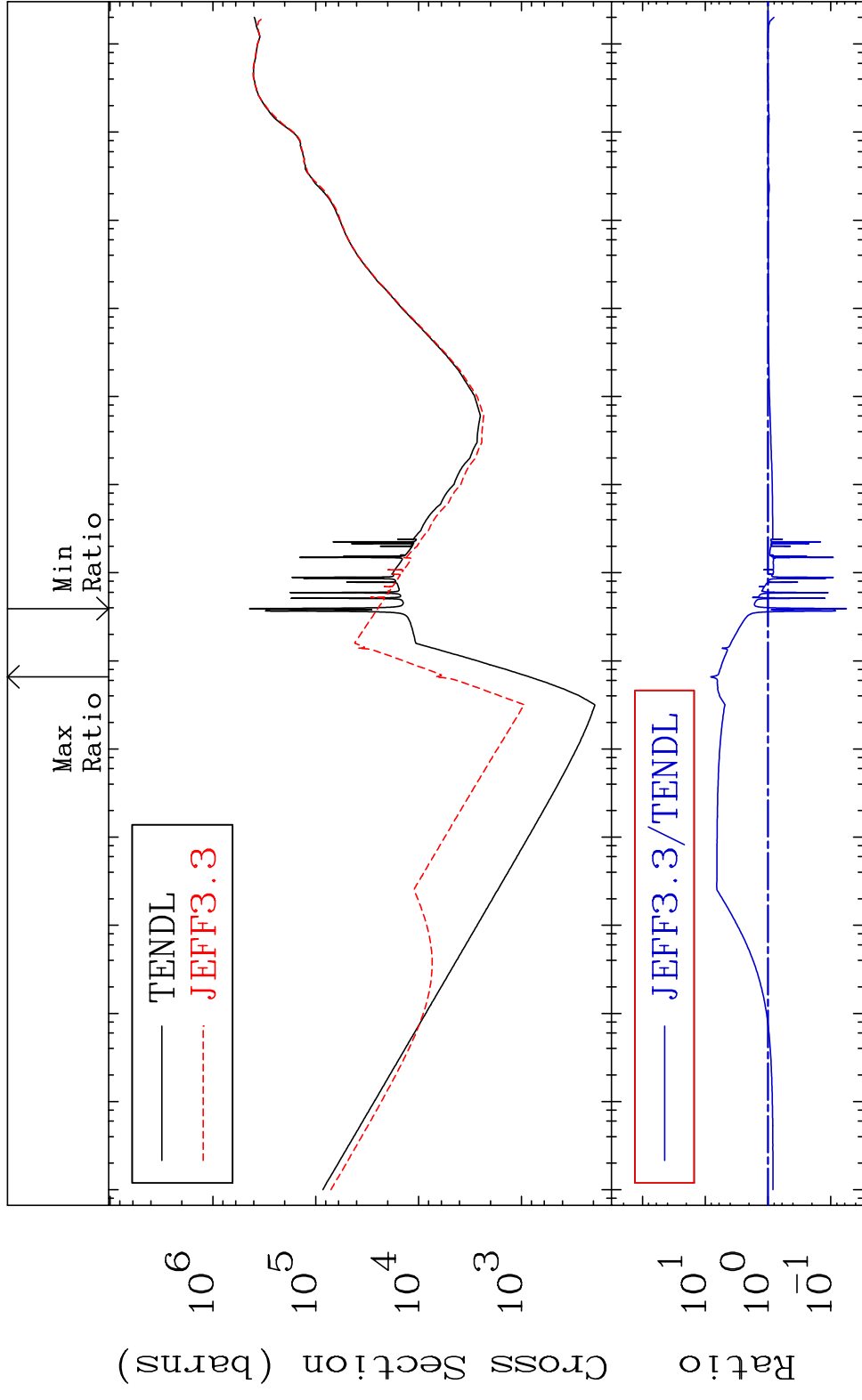


MAT 3519

Dpa total (eV-barns)

35-Br-77

Cross Section -94.36 To 718.1 %



75

Incident Energy (eV)

35-Br-77

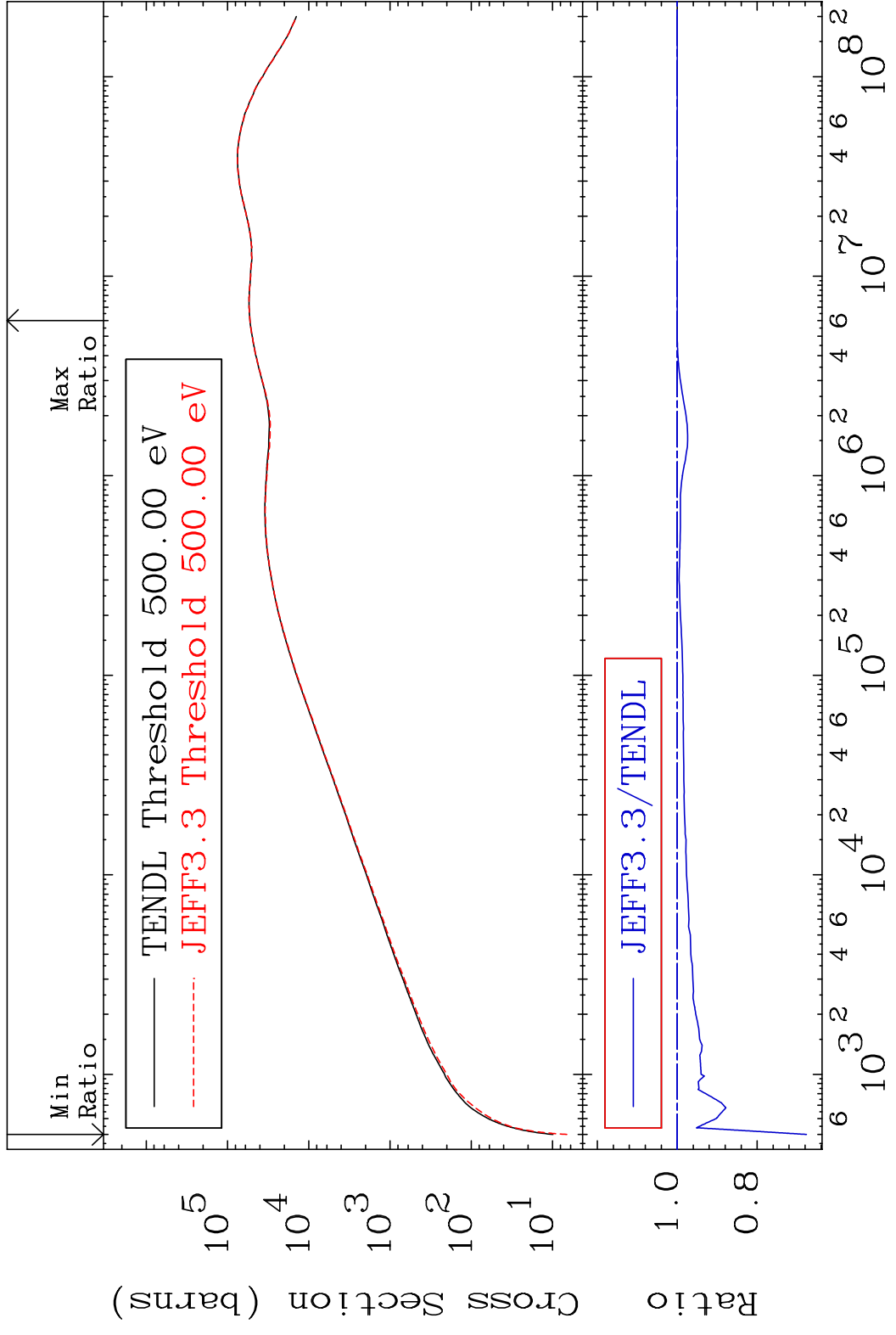
MAT 3519

Dpa elastic (mt2)

35-Br-77

Cross Section

-32.33 To 0.020 %



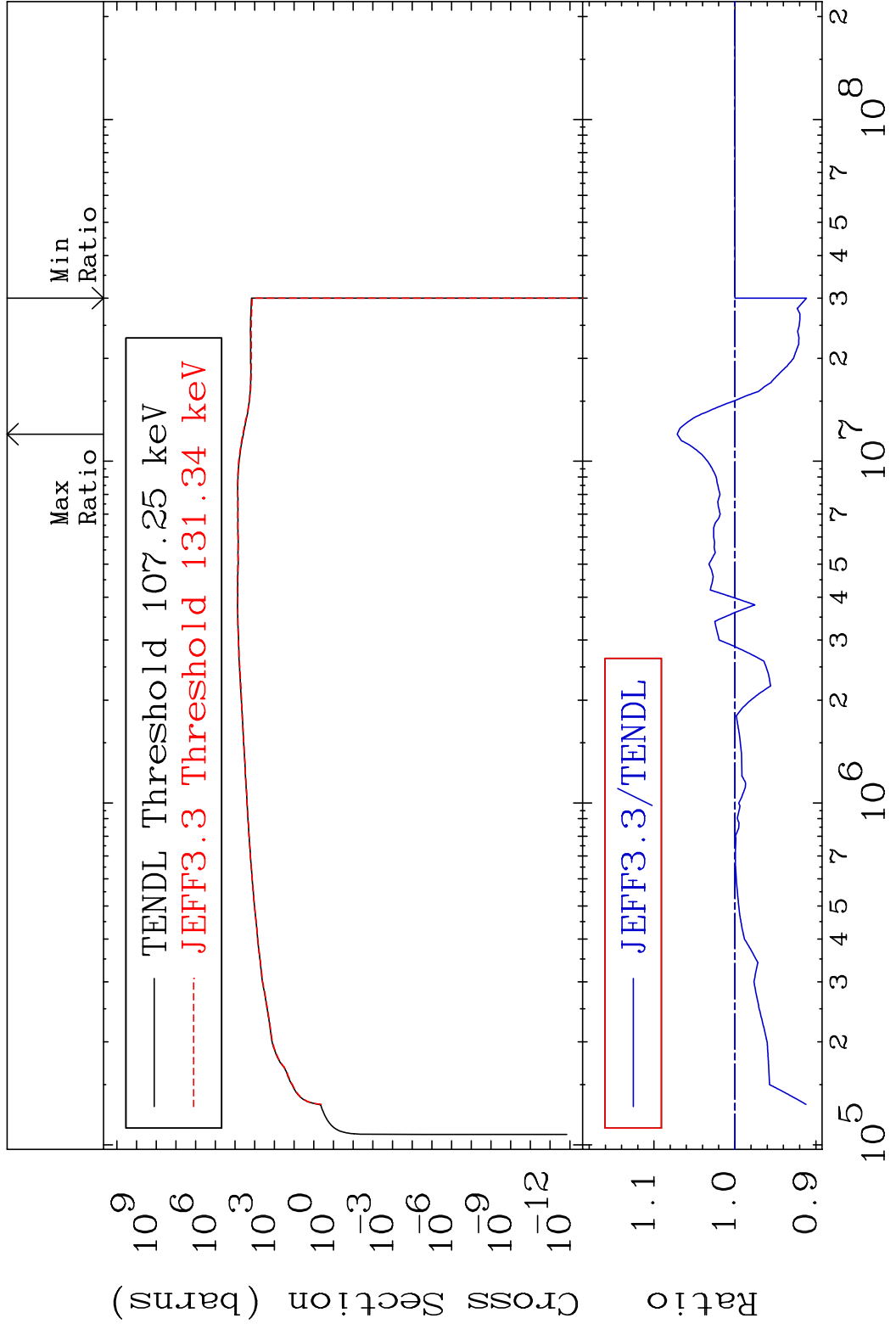
76

Incident Energy (eV)

35-Br-77

MAT 3519

Dpa inelastic (mt51-91) 35-Br-77
Cross Section -8.832 To 7.130 %

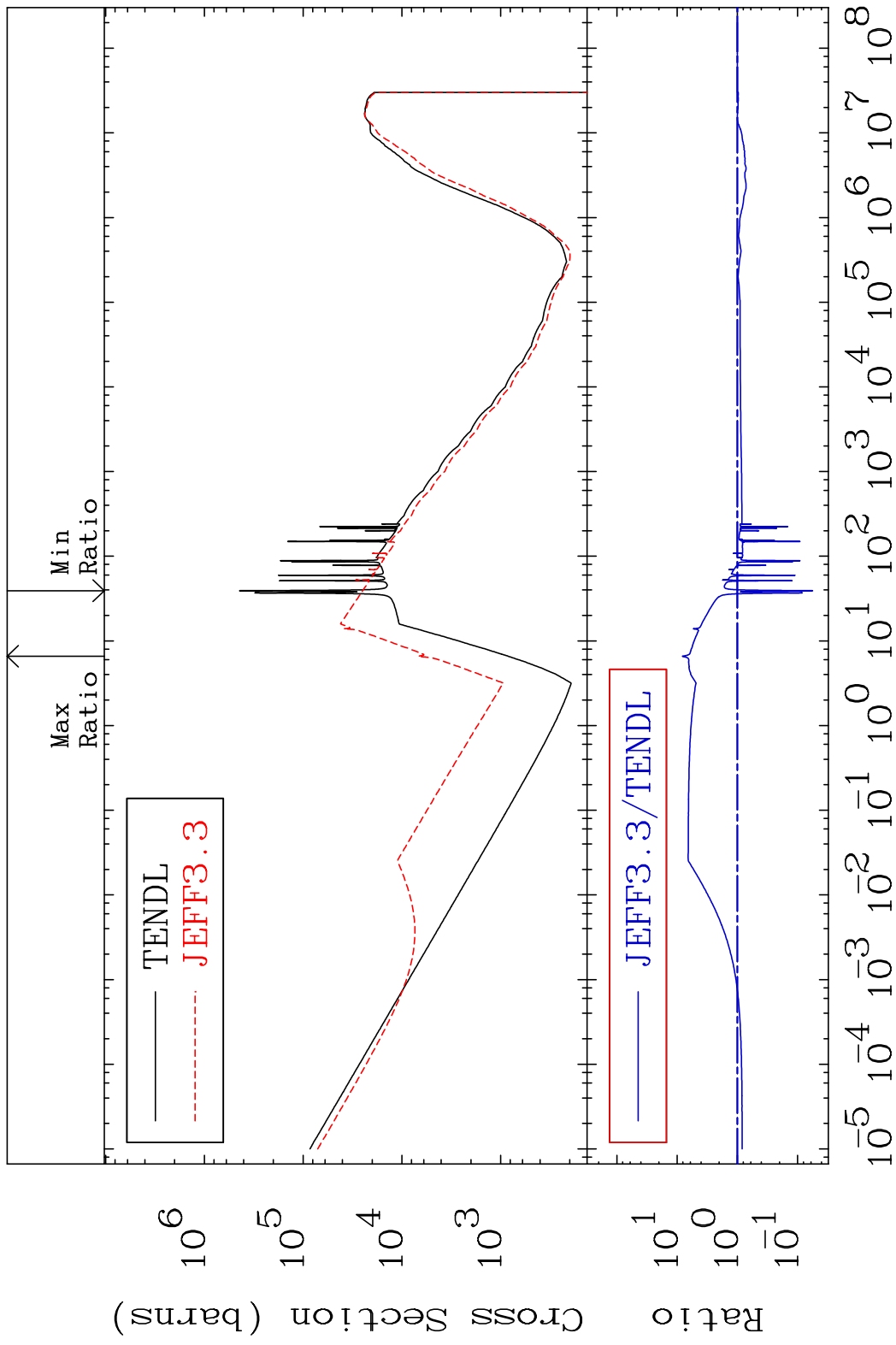


77

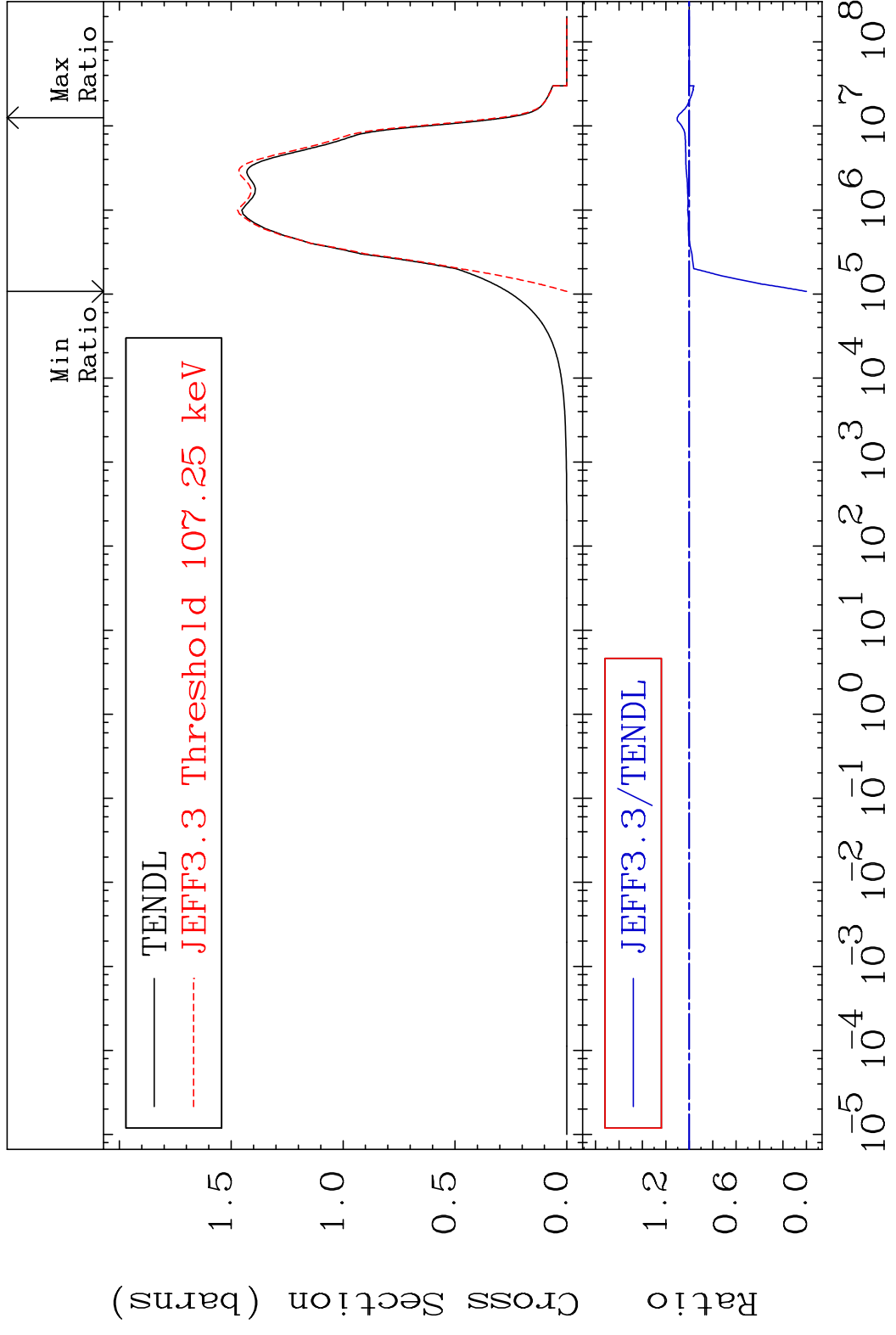
Incident Energy (eV)

35-Br-77

MAT 3519 Dpa disappearance (mt102 -120) 35-Br-77
 Cross Section -94.36 To 718.1 %

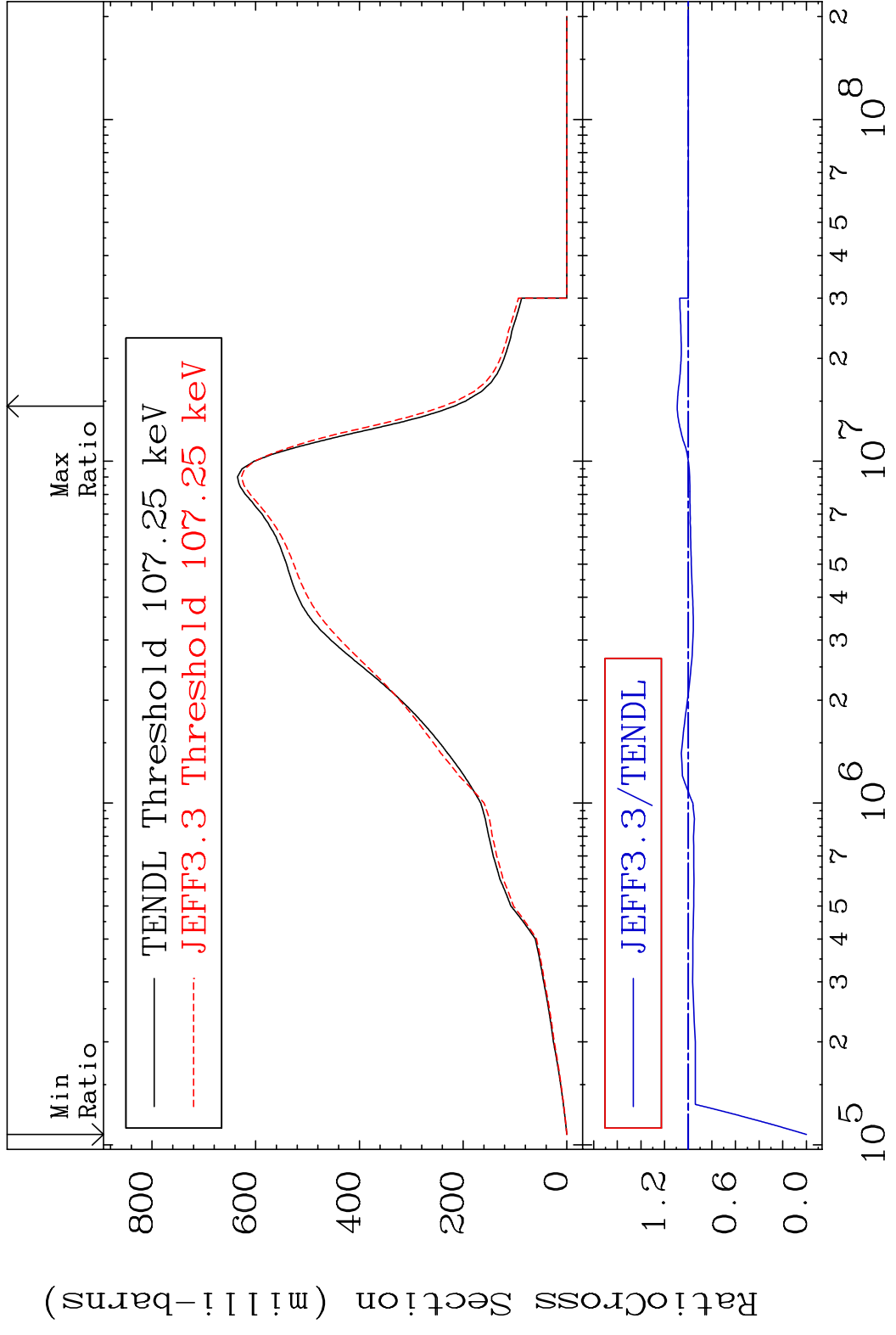


MAT 3519 Inelastic:35-Br-77g 35-Br-77
 Radionuclide Production Cross Section 100.0 dth 10.33 %



79 Incident Energy (eV) 35-Br-77

MAT 3519 Inelastic:35-Br-77m1 35-Br-77
 Radionuclide Production Cross Section Ratio 9.330 %



80 Incident Energy (eV) 35-Br-77

MAT 3519 (n,2n):35-Br-76g 35-Br-77
 Radionuclide Production Cross Section 180.0 dno 144.8 %

