

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

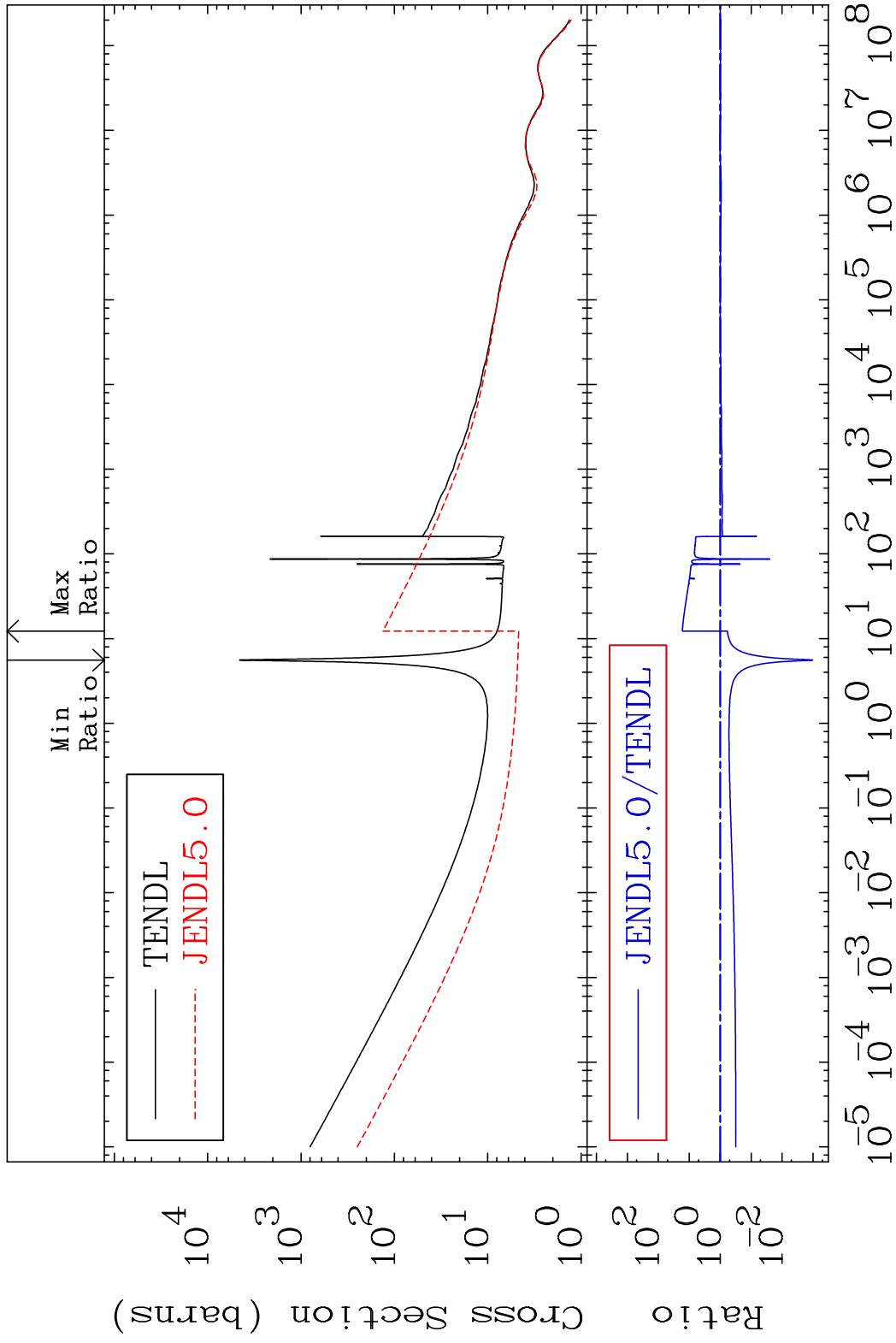
Press Mouse Button to Start

MAT 3319

Total

33-As-73

Cross Section -99.90 To 1569. %



1

Incident Energy (eV)

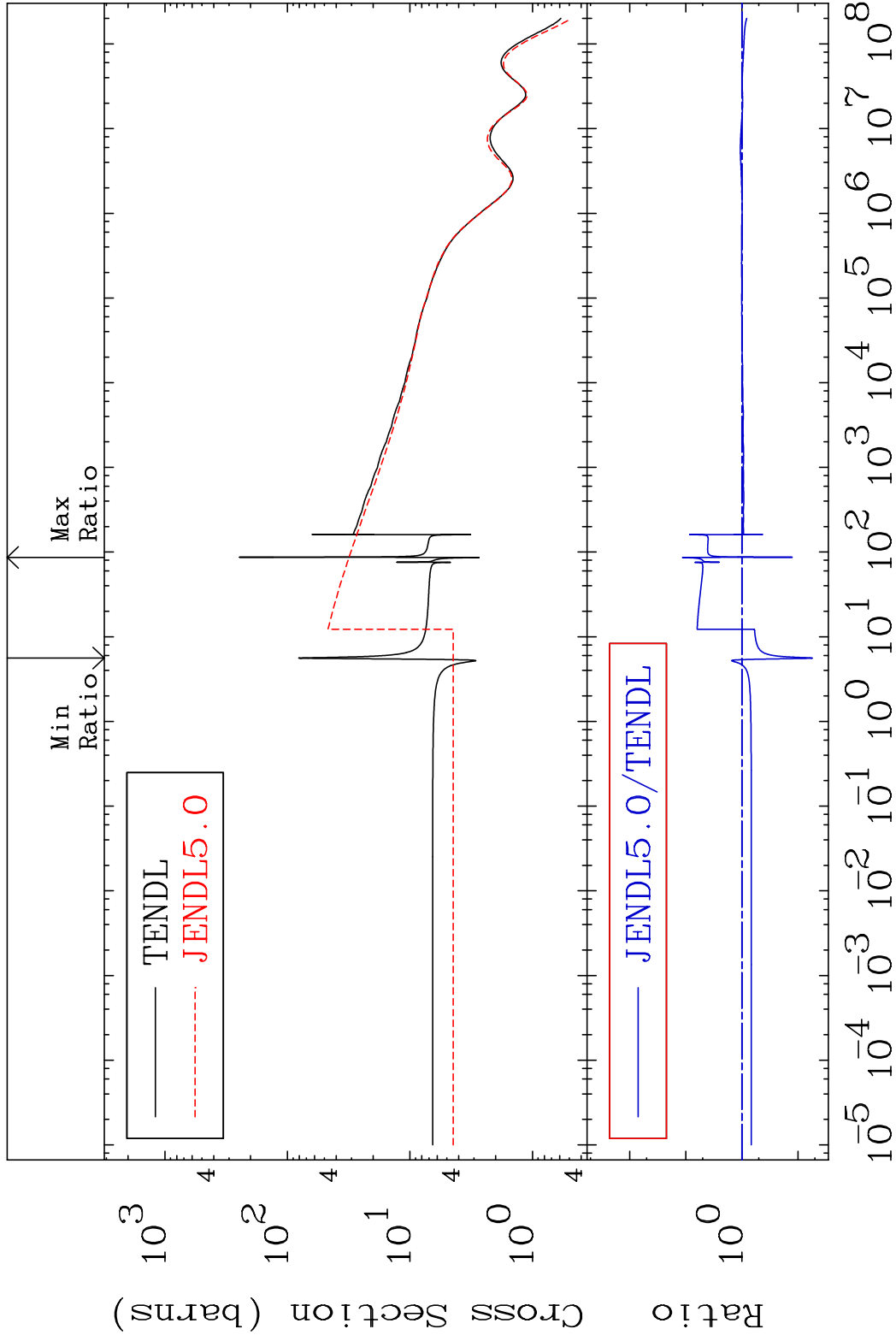
33-As-73

MAT 3319

Elastic

33-As-73

Cross Section -94.51 To 1053. %

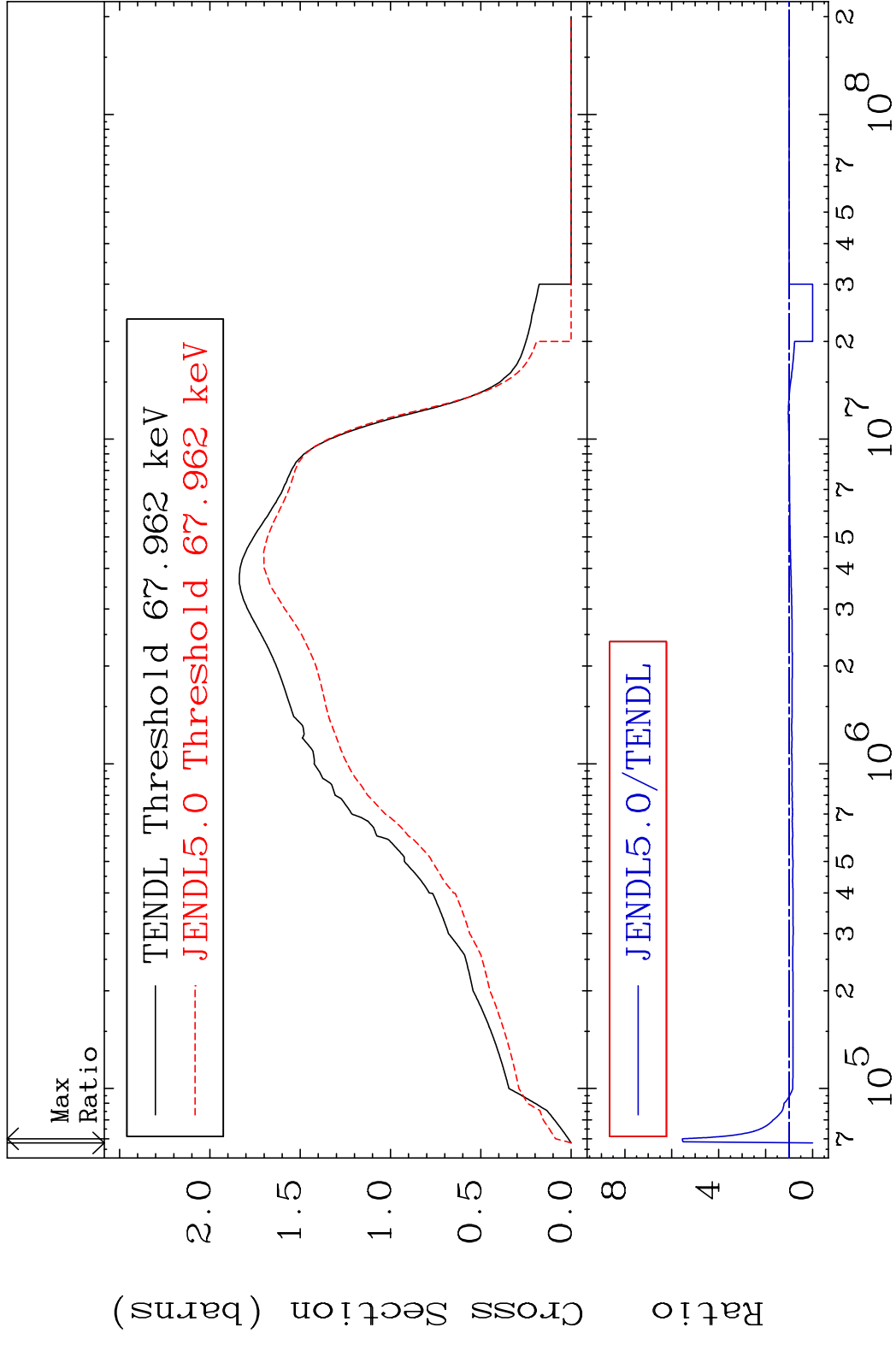


2

Incident Energy (eV)

33-As-73

MAT 3319 Inelastic Cross Section -100.0 To 454.8 % 33-As-73



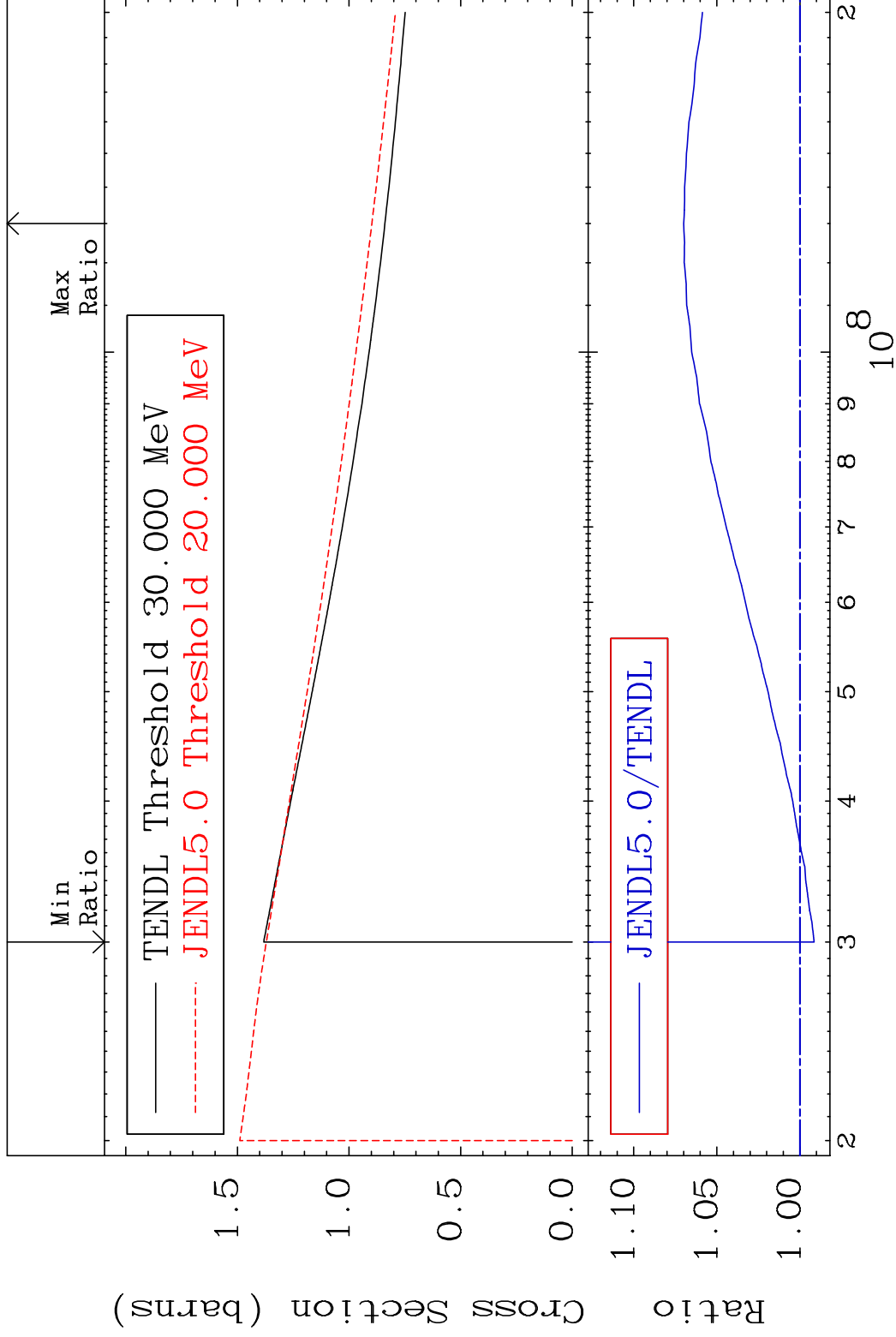
3 Incident Energy (eV) 33-As-73

MAT 3319

(n, remainder)

33-As-73

Cross Section -0.853 To 6.996 %



4

Incident Energy (eV)

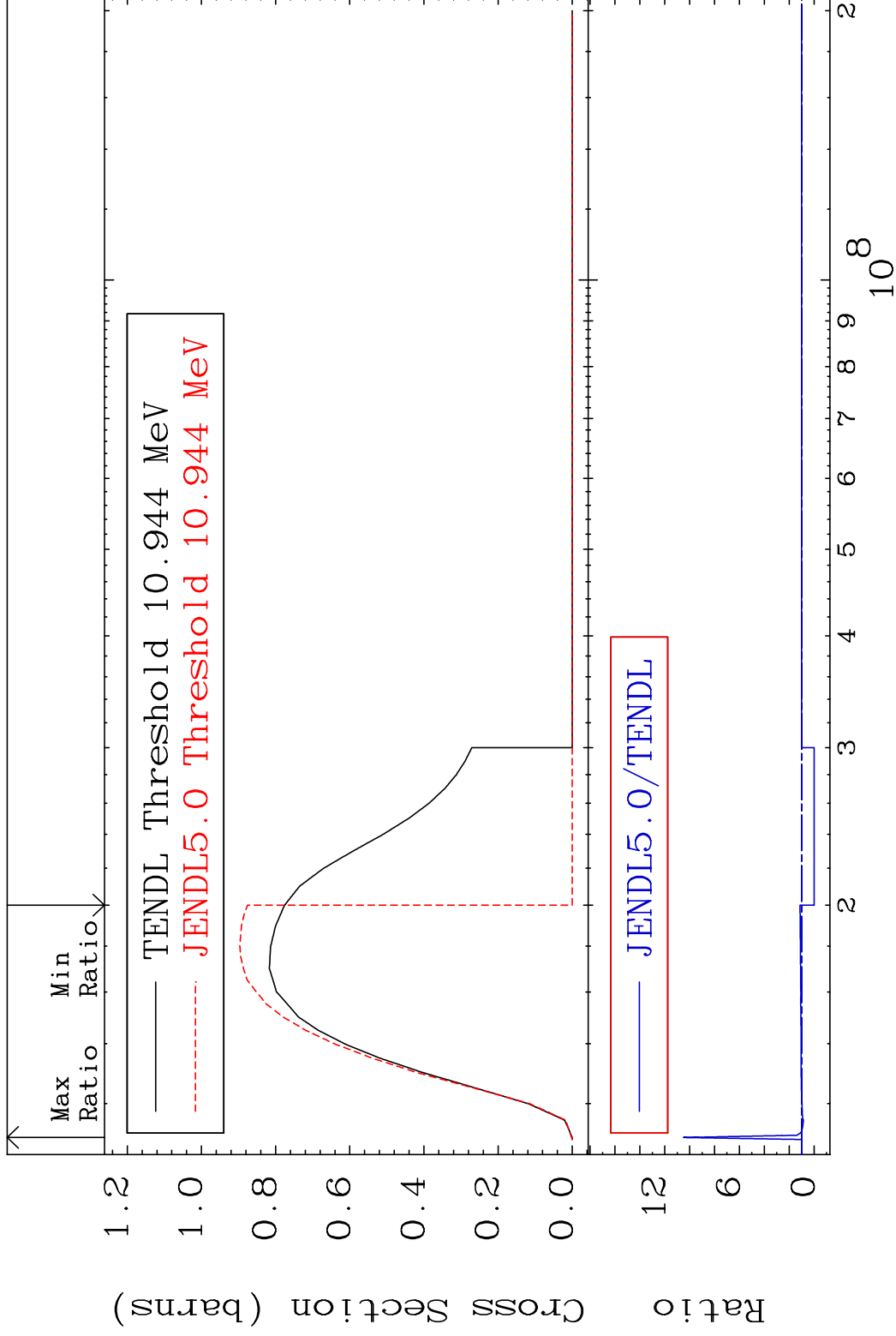
33-As-73

MAT 3319

(n,2n)

33-As-73

Cross Section -100.0 To 948.1 %



5

Incident Energy (eV)

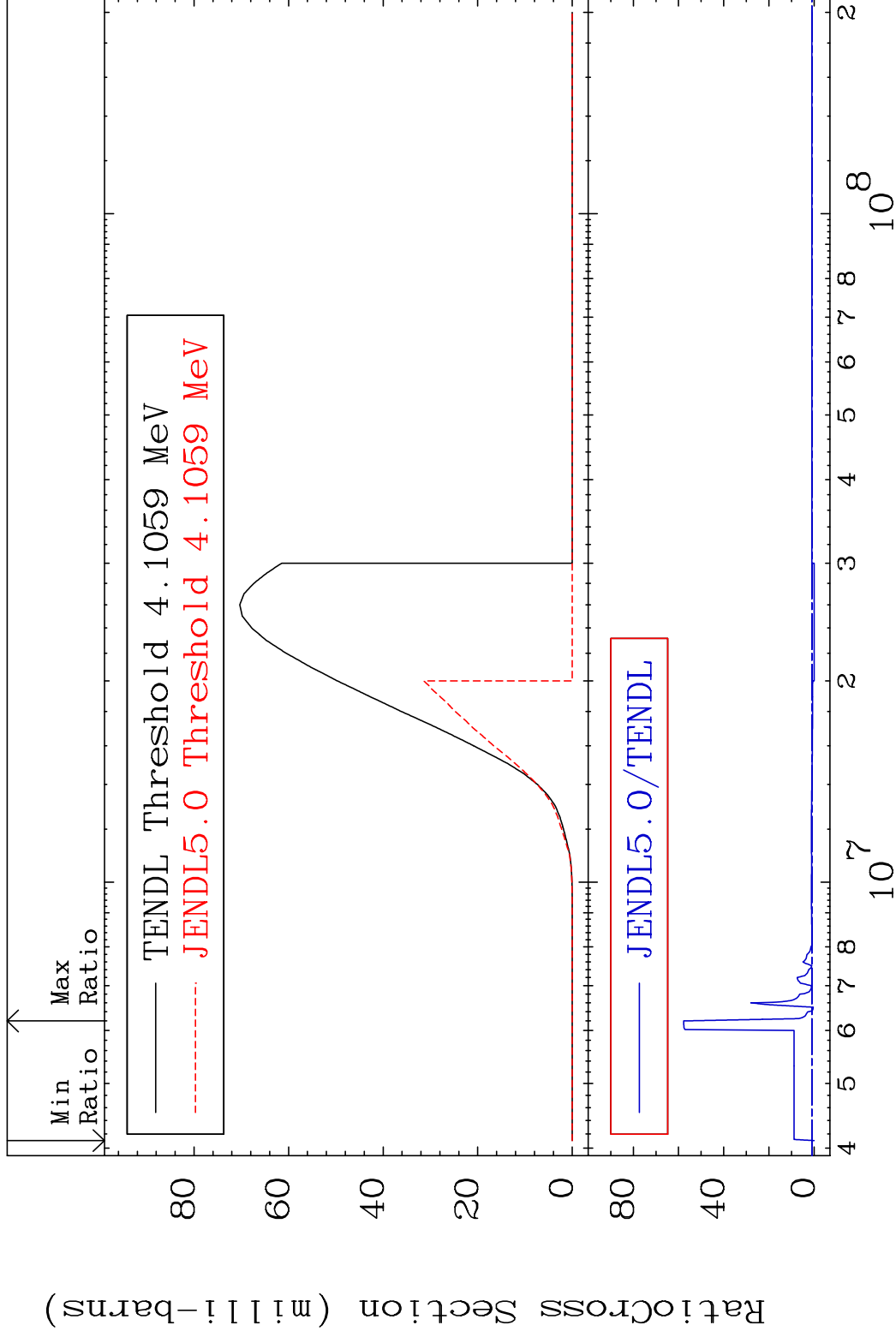
33-As-73

MAT 3319

(n, n') α

33-As-73

Cross Section -100.0 To 5673. %

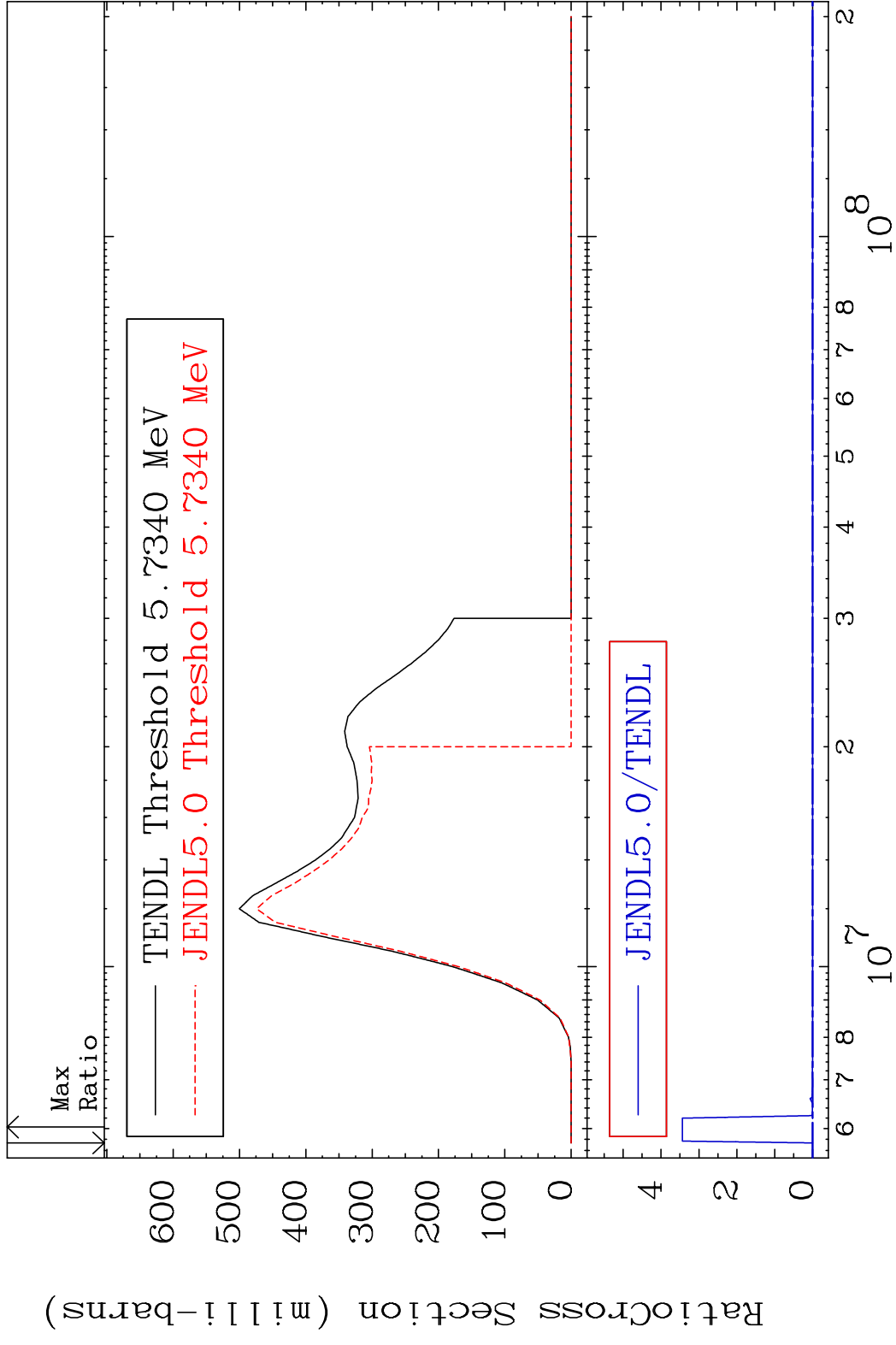


6

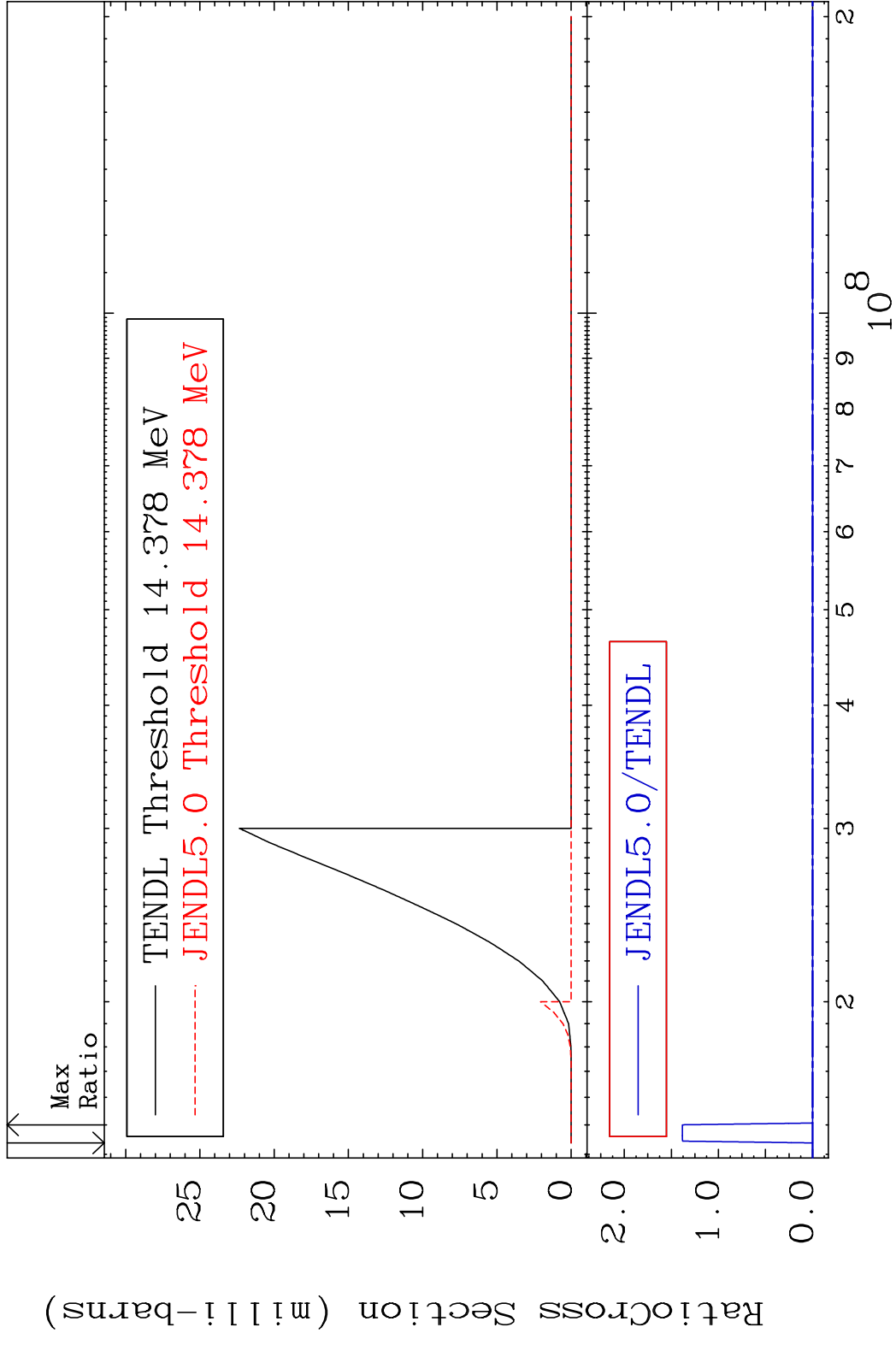
Incident Energy (eV)

33-As-73

MAT 3319 (n, n') p 33-As-73
 Cross Section -100.0 To 9999. %



MAT 3319 (n, n') d 33-As-73
 Cross Section -100.0 To 9999. %

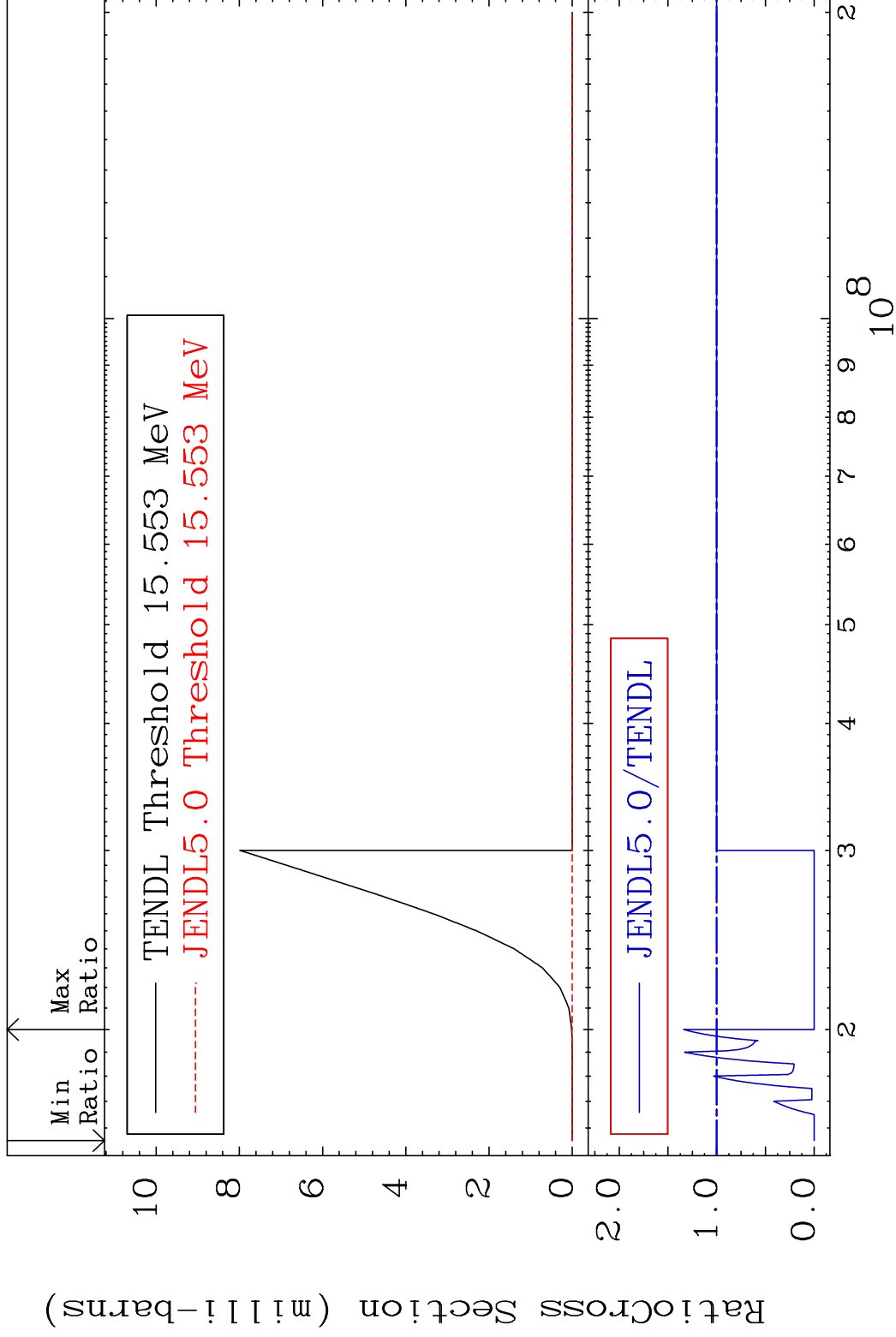


MAT 3319

(n, n') t

33-As-73

Cross Section -100.0 To 33.91 %



9

Incident Energy (eV)

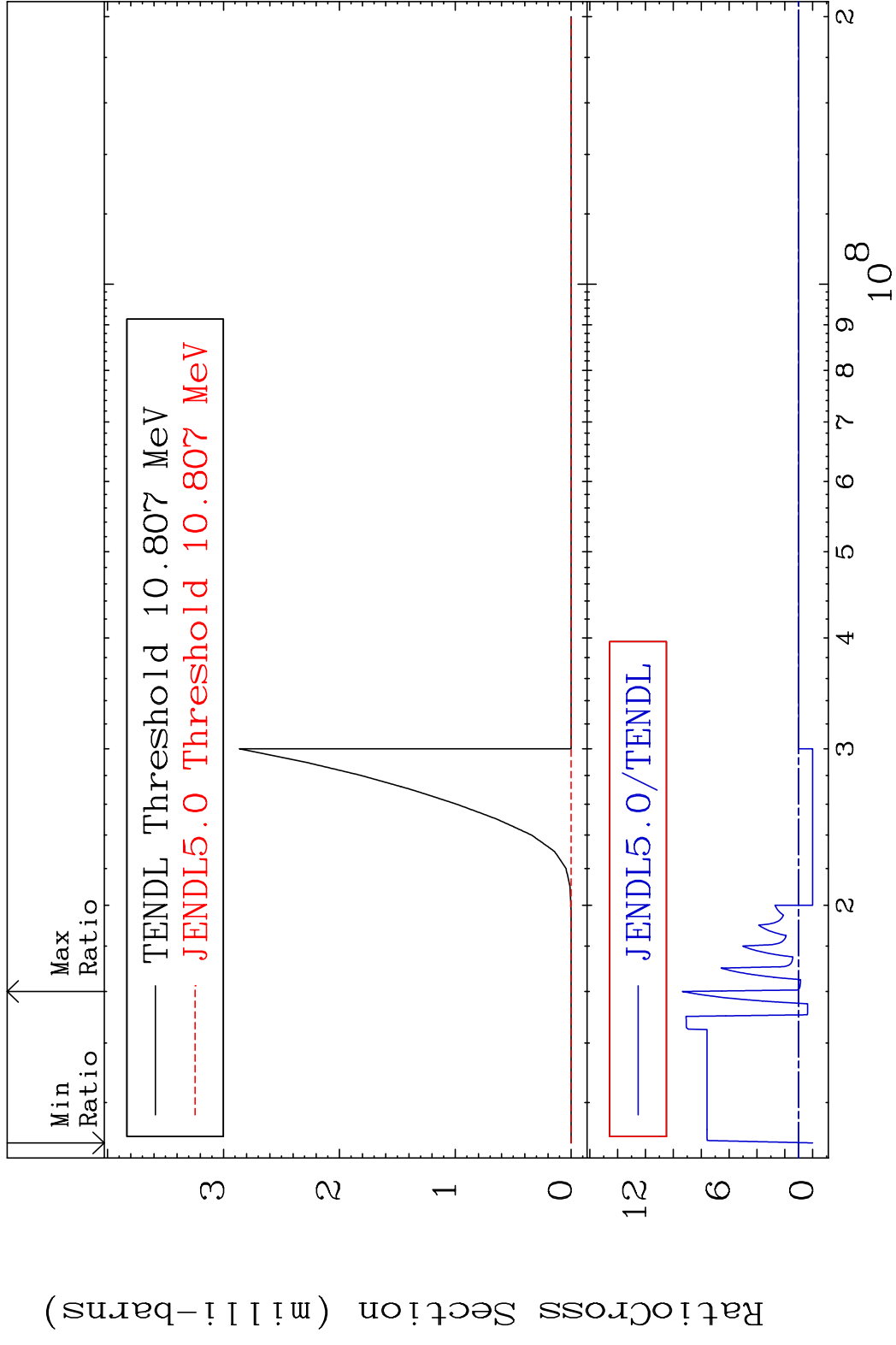
33-As-73

MAT 3319

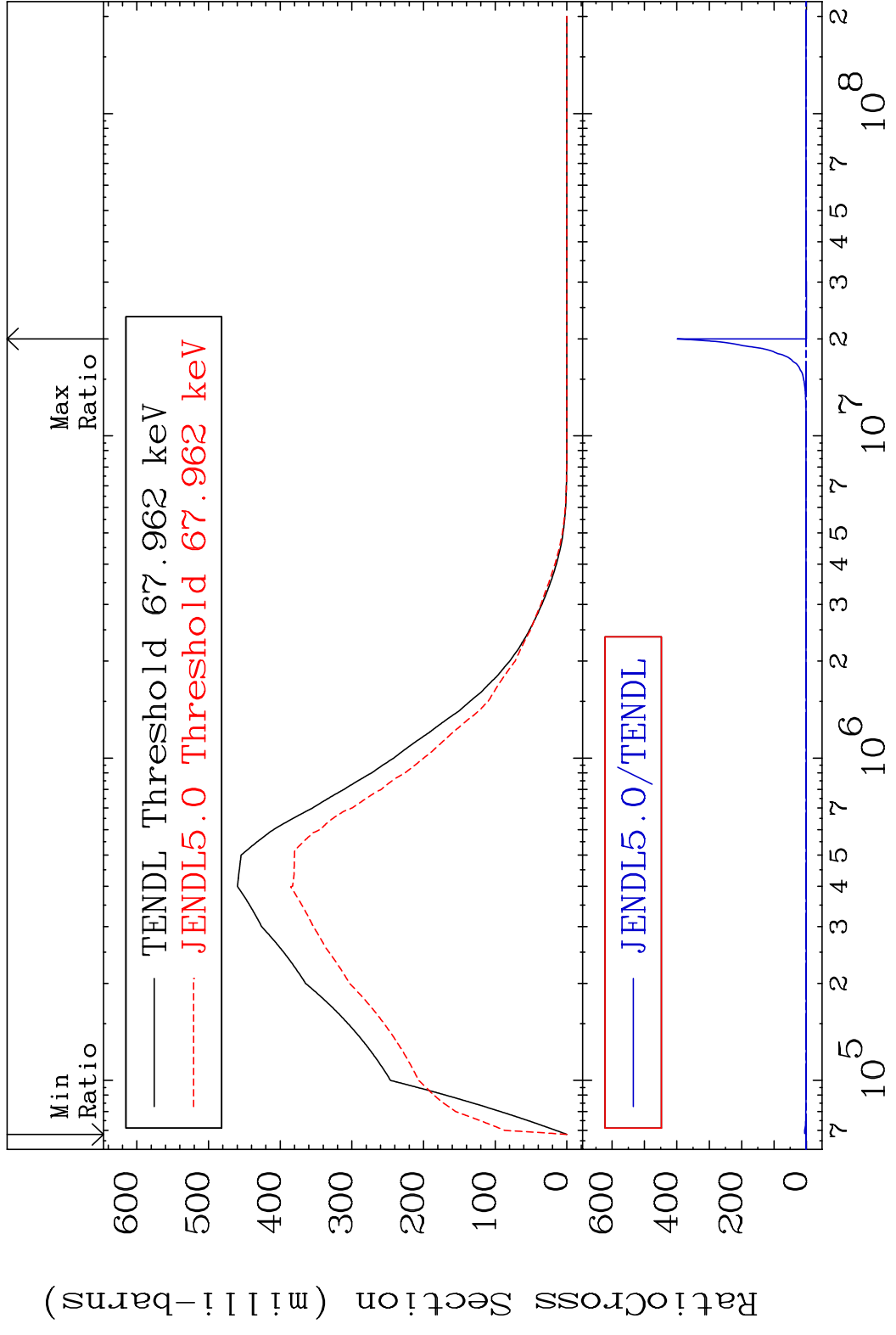
(n,n') p α

33-As-73

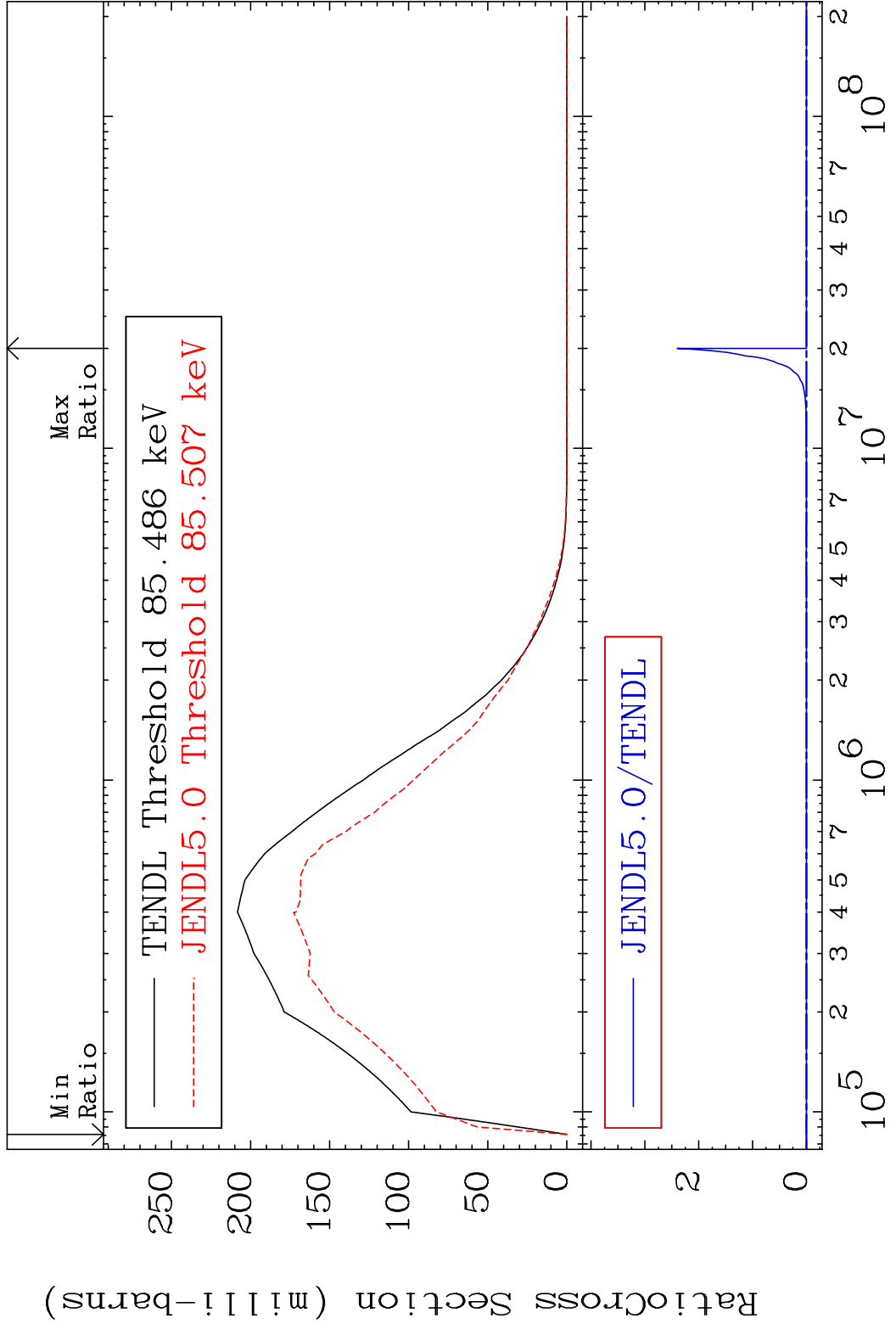
Cross Section -100.0 To 835.4 %



MAT 3319 MT= 51 (n,n') Level 33-As-73
 Cross Section -100.0 To 9999. %

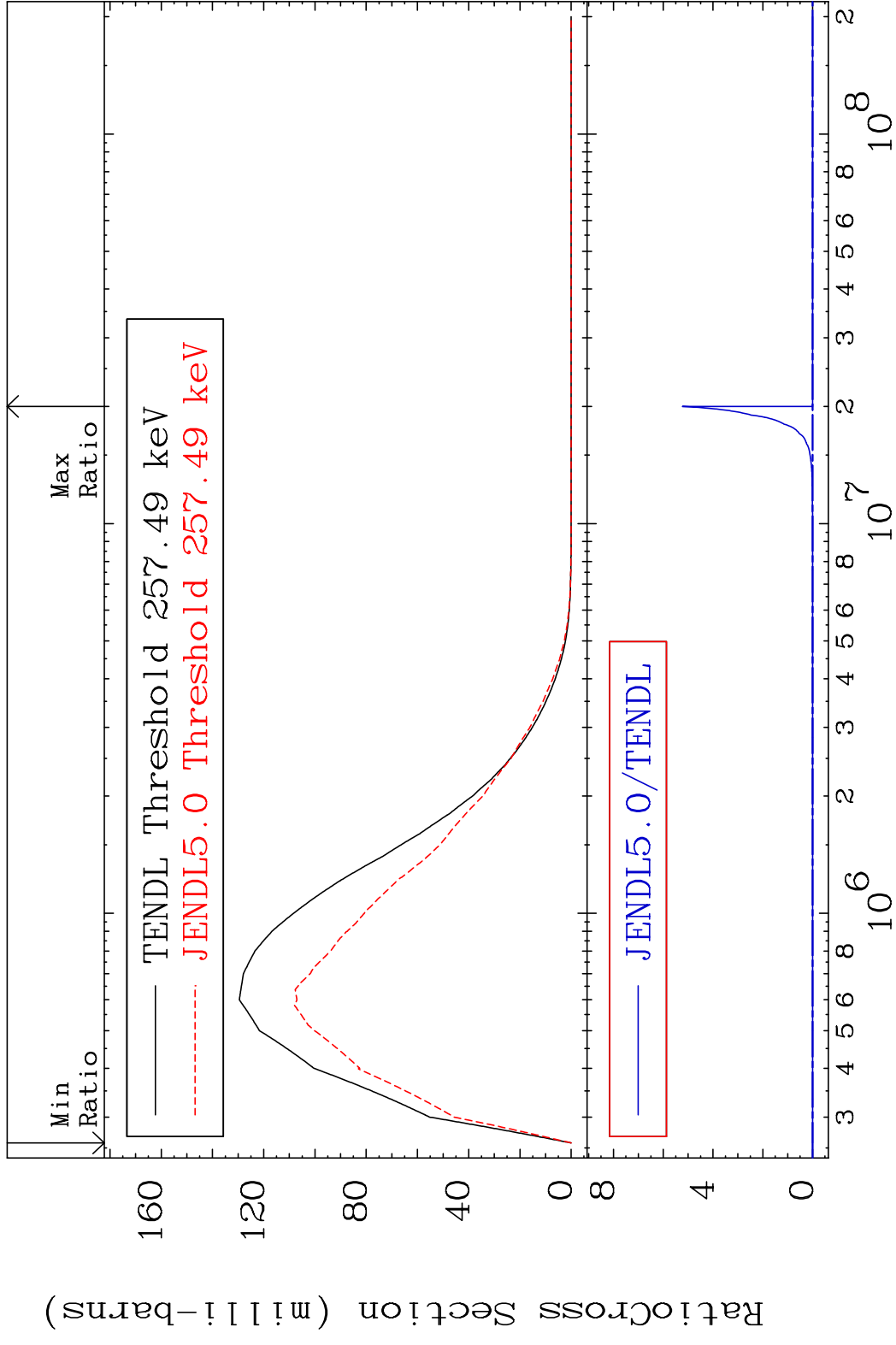


MAT 3319 MT= 52 (n, n') Level 33-As-73
 Cross Section -100.0 To 9999. %

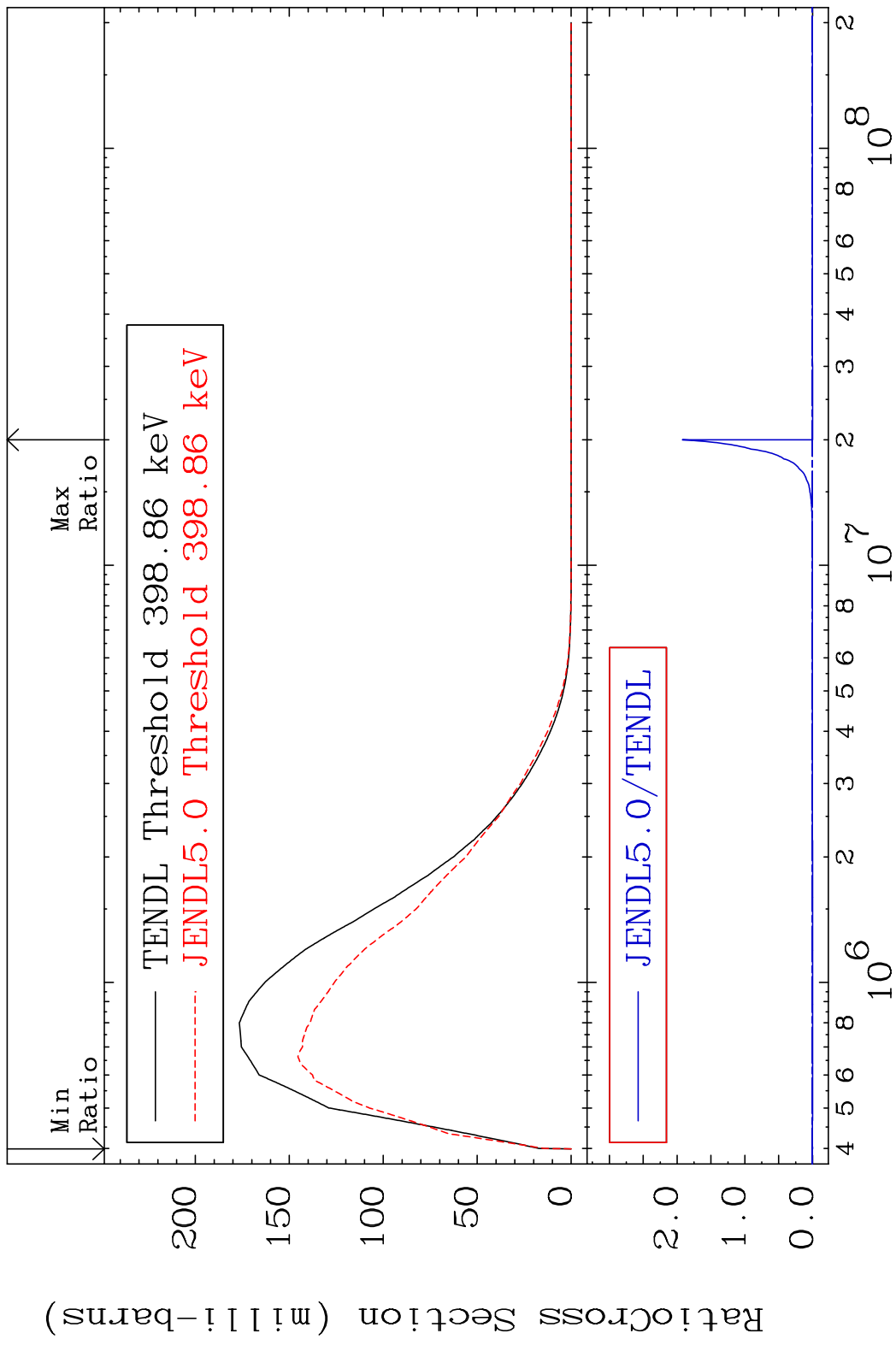


13 Incident Energy (eV) 33-As-73

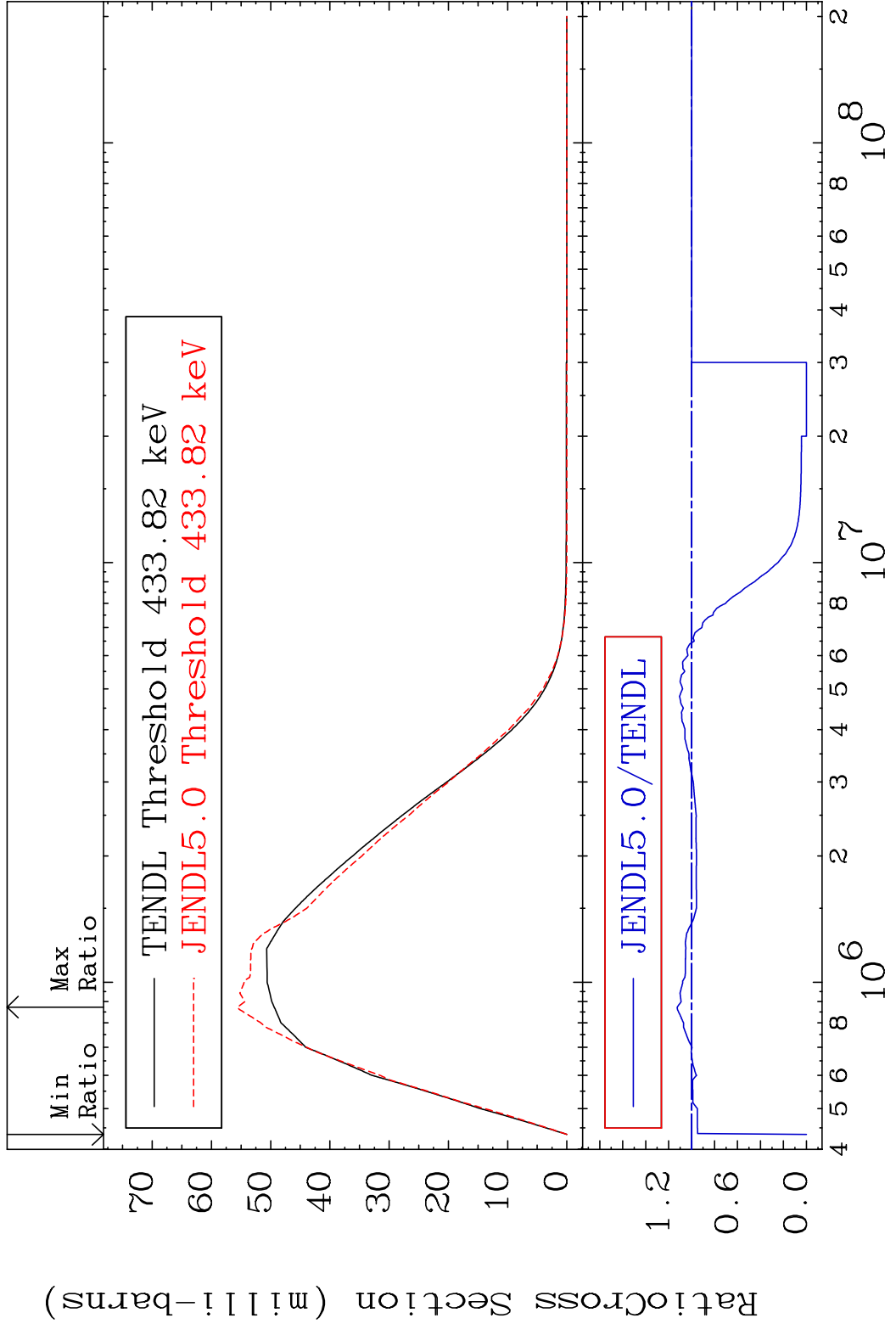
MAT 3319 MT= 53 (n, n') Level 33-As-73
 Cross Section -100.0 To 9999. %



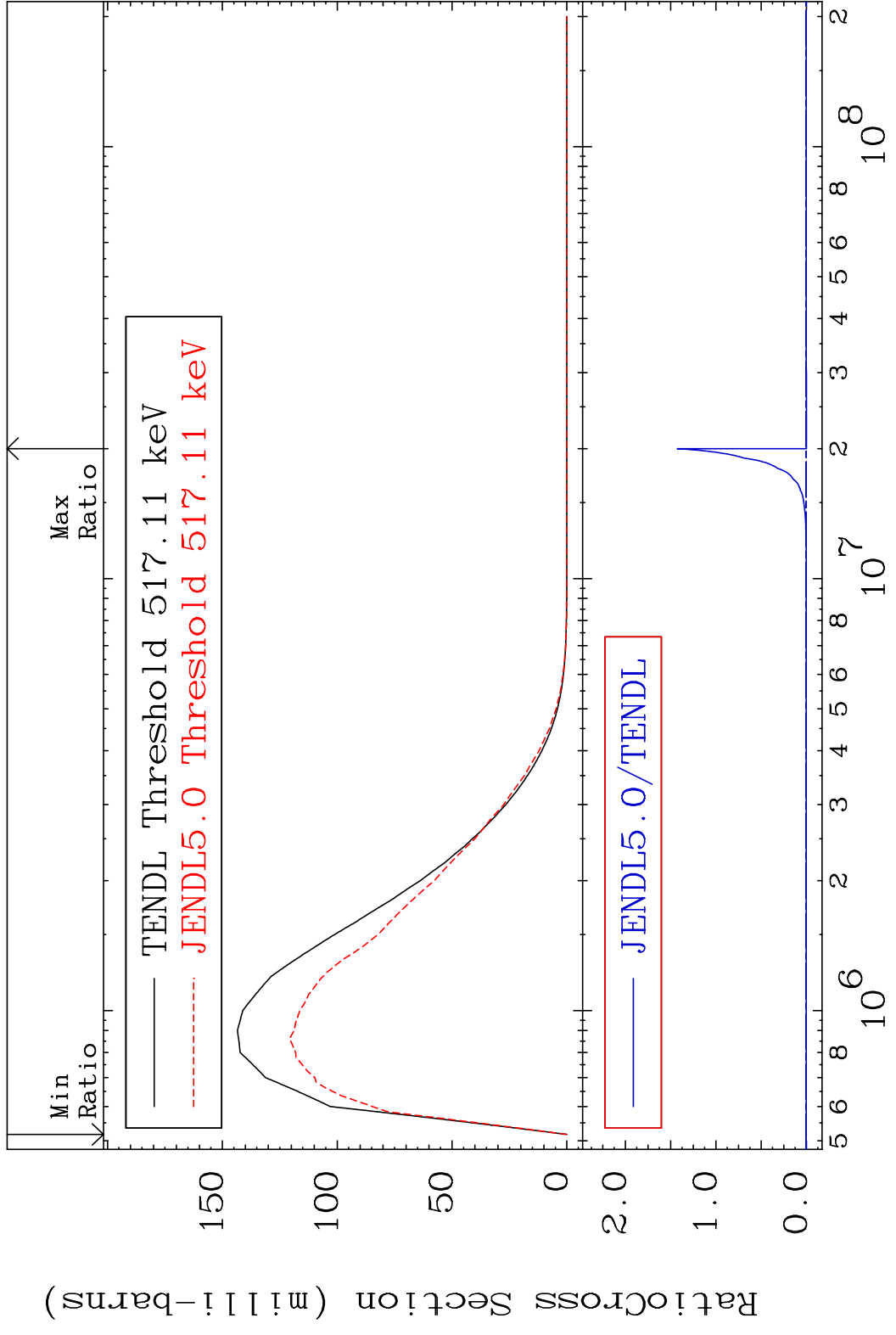
MAT 3319 MT= 54 (n,n') Level 33-As-73
 Cross Section -100.0 To 9999. %



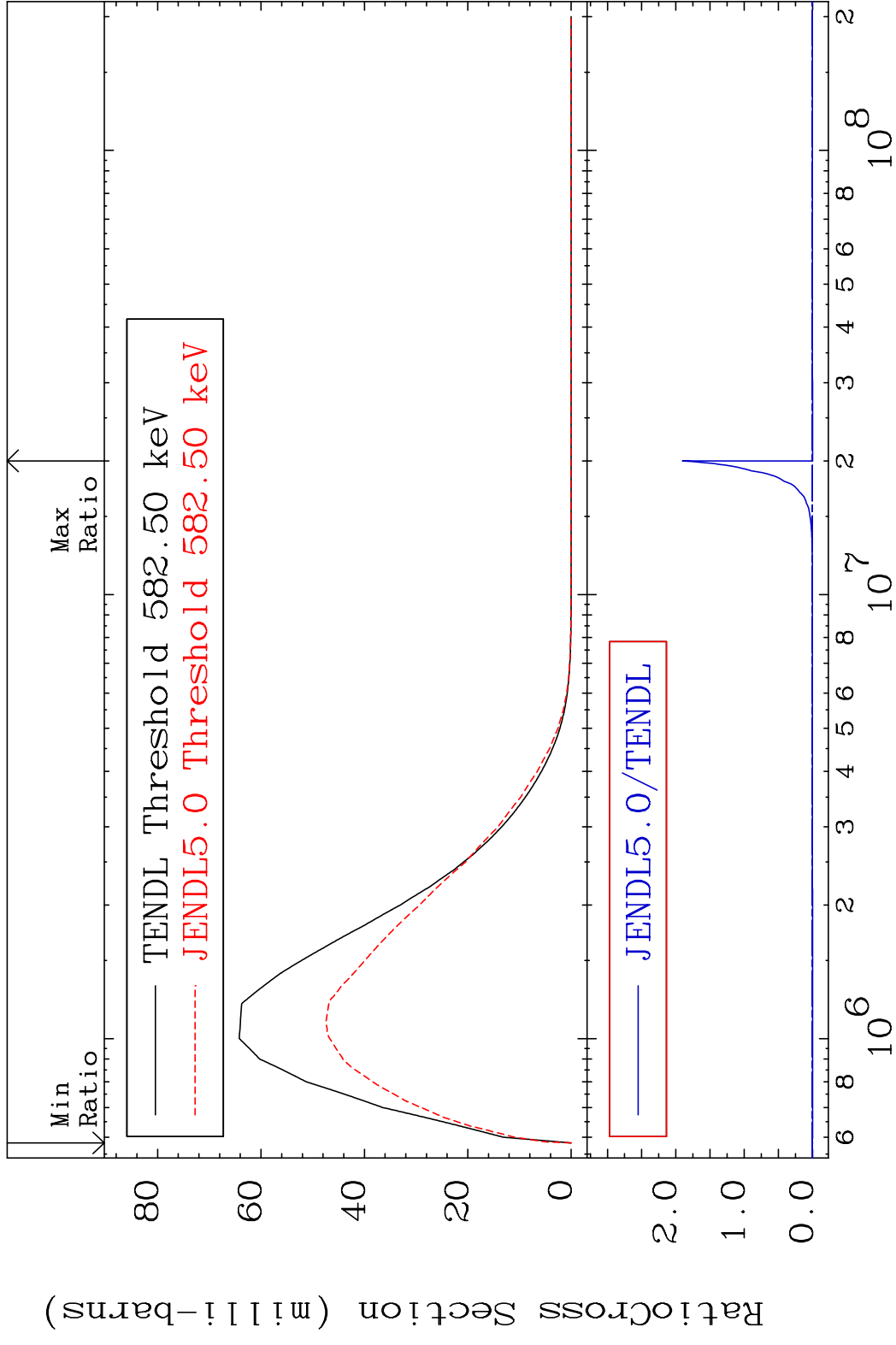
MAT 3319 MT= 55 (n,n') Level 33-As-73
 Cross Section -100.0 To 12.55 %



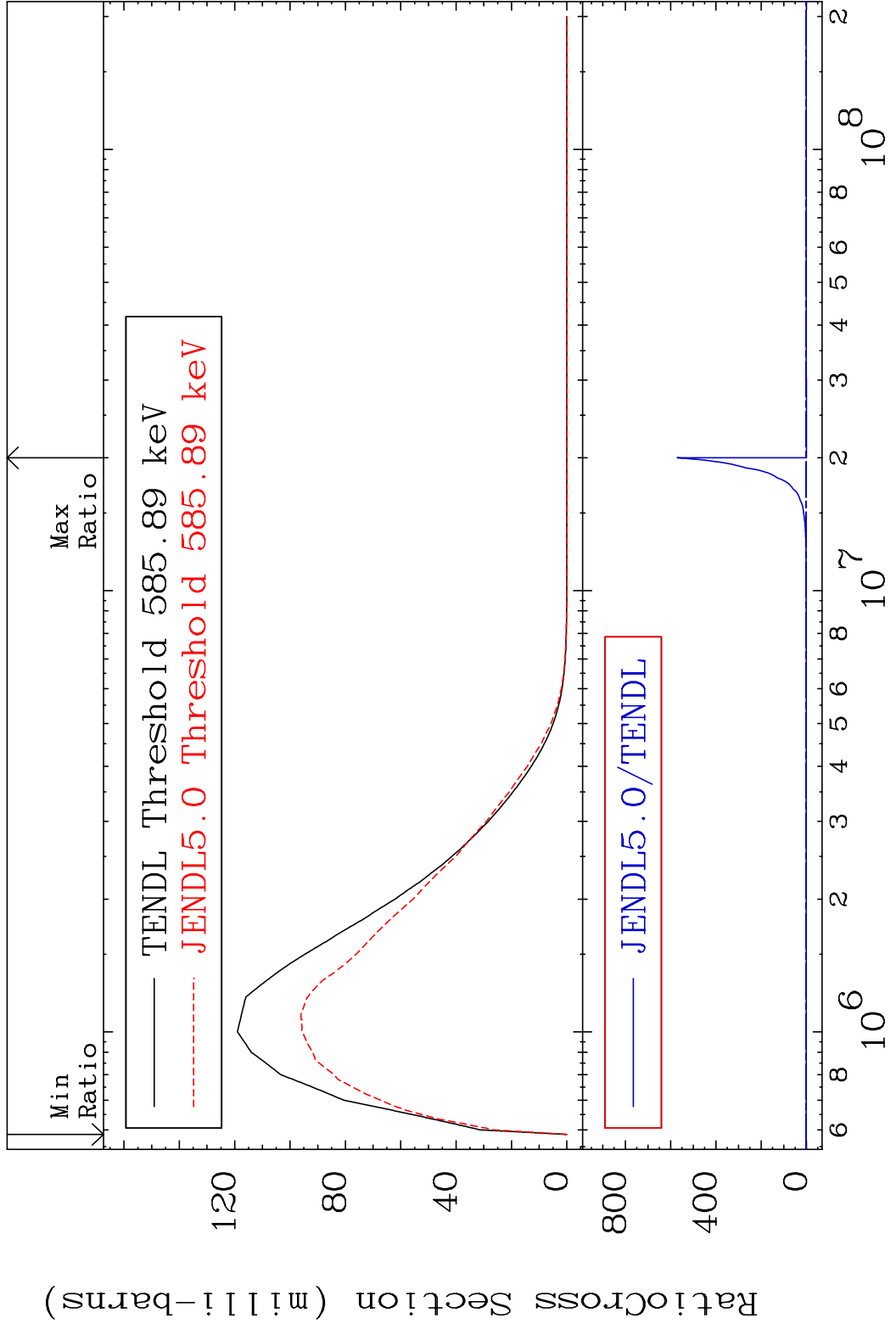
MAT 3319 MT= 56 (n, n') Level 33-As-73
 Cross Section -100.0 To 9999. %



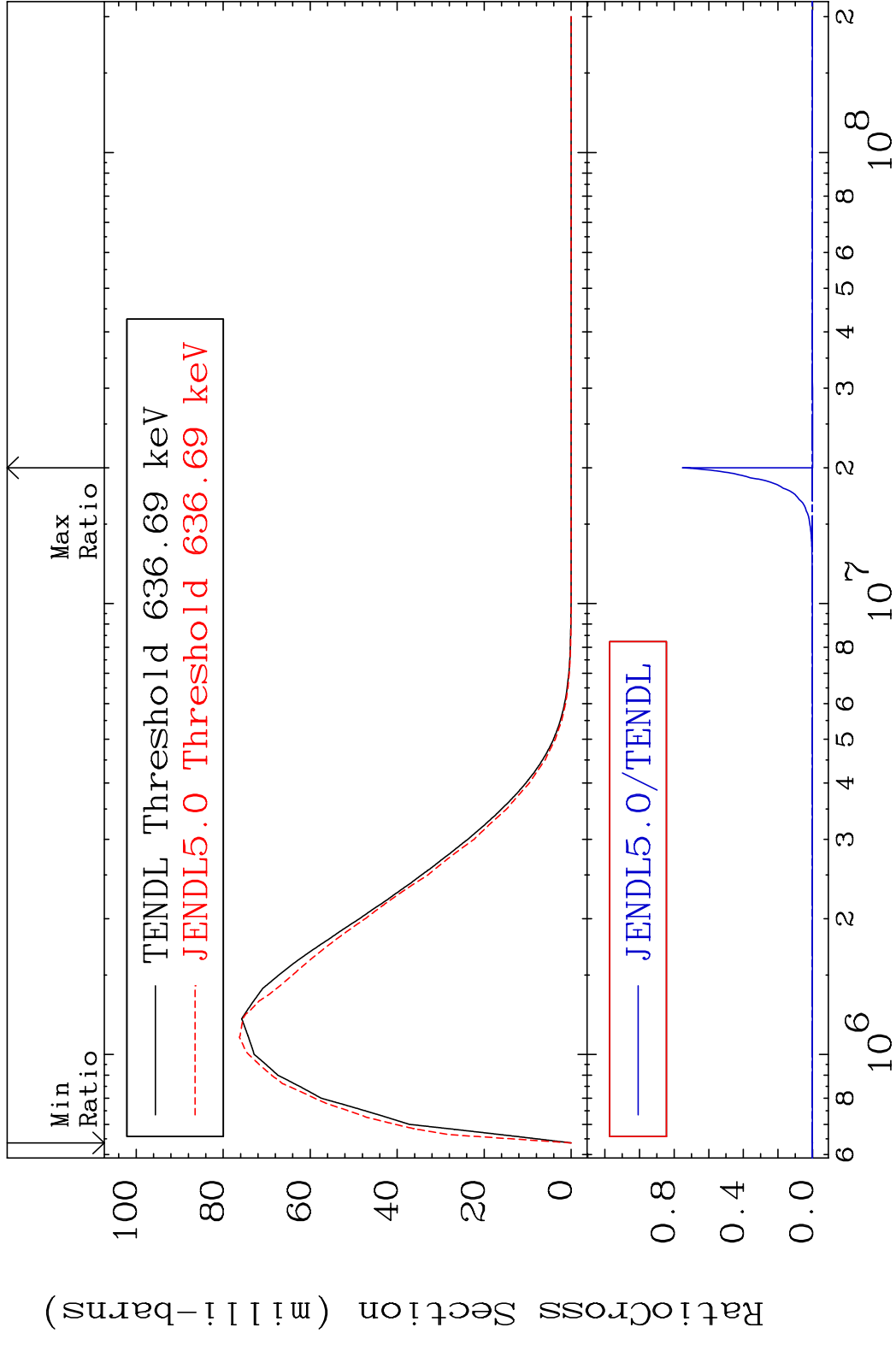
MAT 3319 MT= 57 (n, n') Level 33-As-73
 Cross Section -100.0 To 9999. %



MAT 3319 MT= 58 (n, n') Level 33-As-73
 Cross Section -100.0 To 9999. %

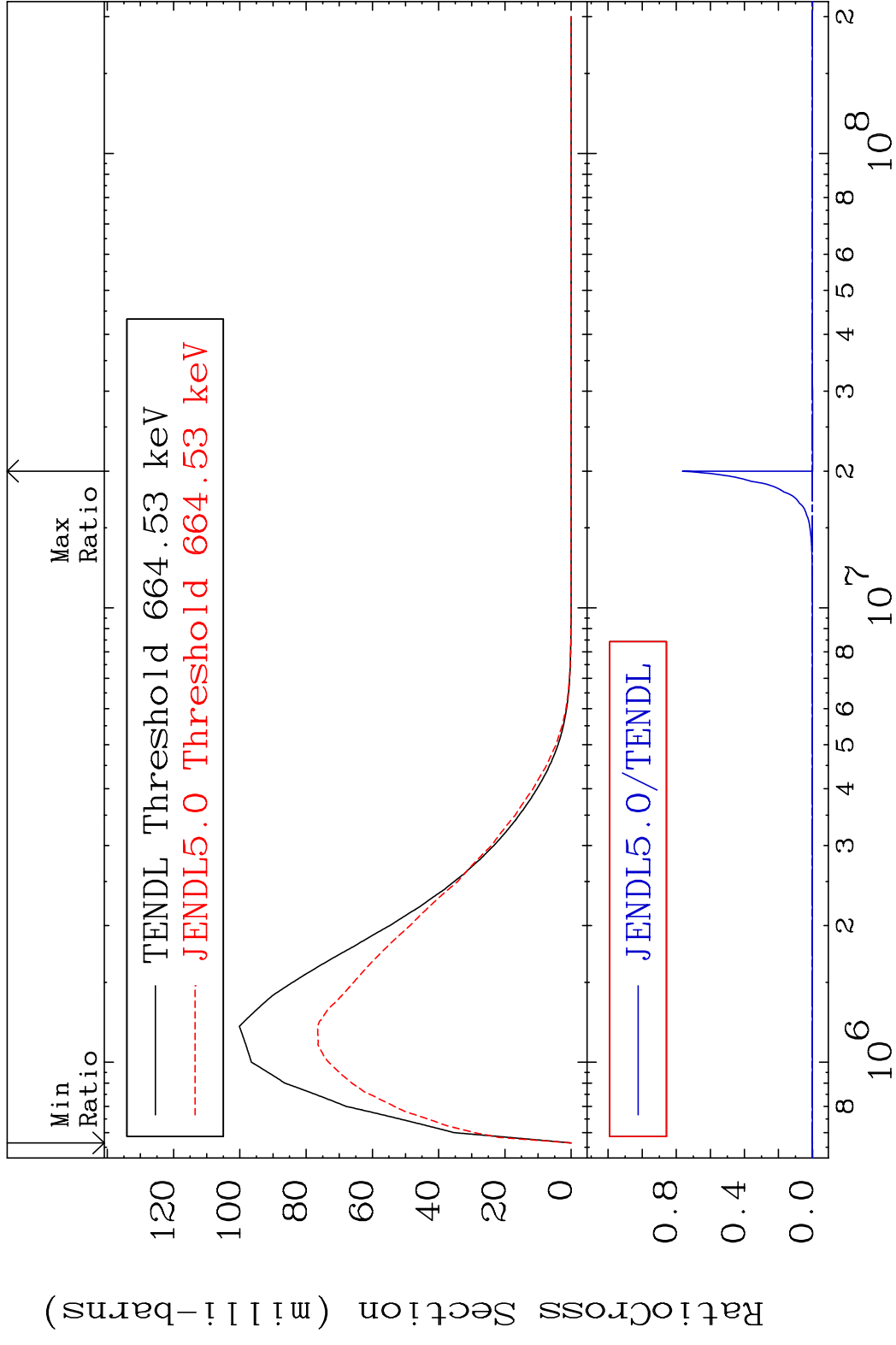


MAT 3319 MT= 59 (n, n') Level 33-As-73
 Cross Section -100.0 To 9999. %

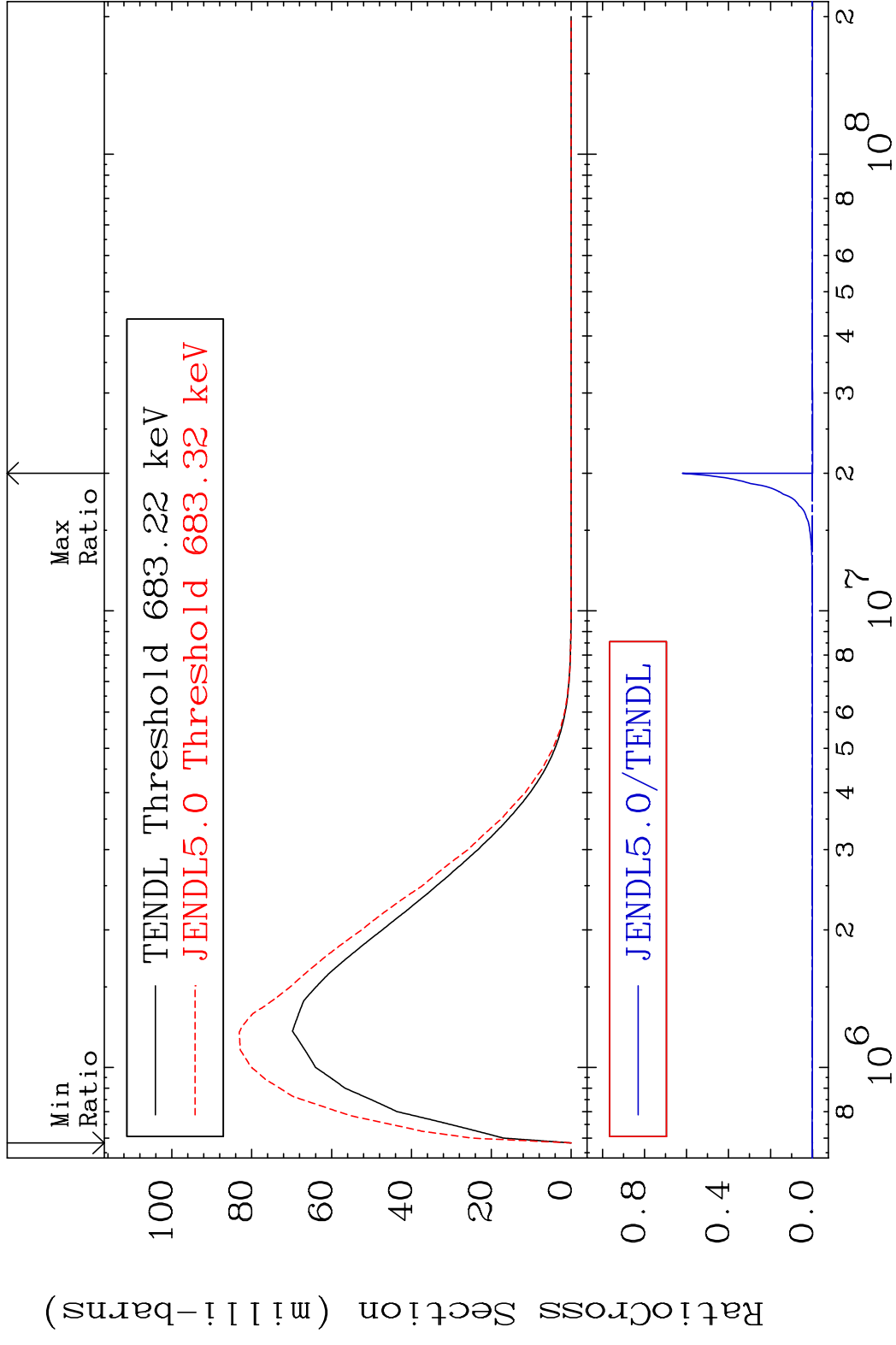


20 Incident Energy (eV) 33-As-73

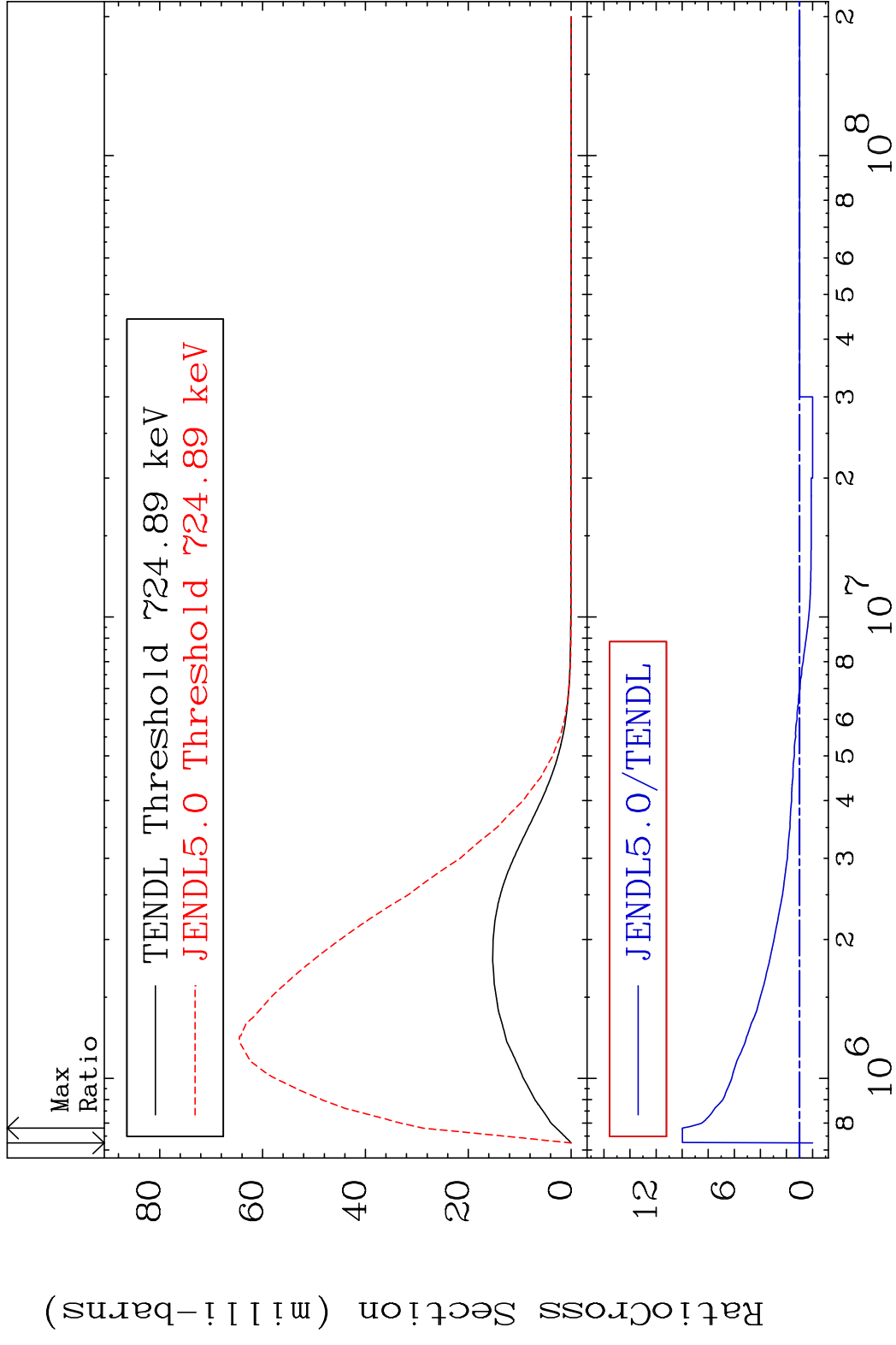
MAT 3319 MT= 60 (n, n') Level 33-As-73
 Cross Section -100.0 To 9999. %



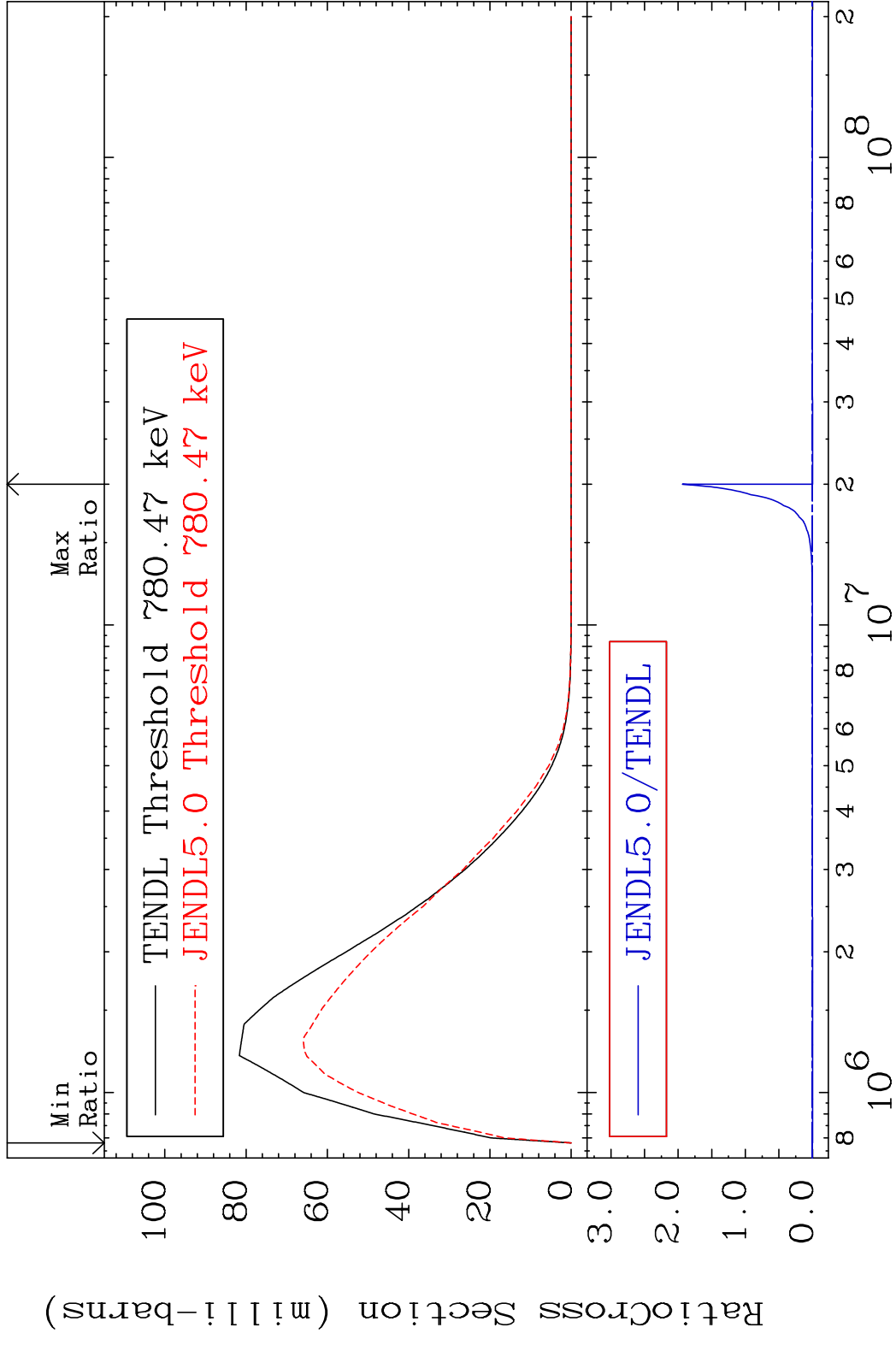
MAT 3319 MT= 61 (n, n') Level 33-As-73
 Cross Section -100.0 To 9999. %



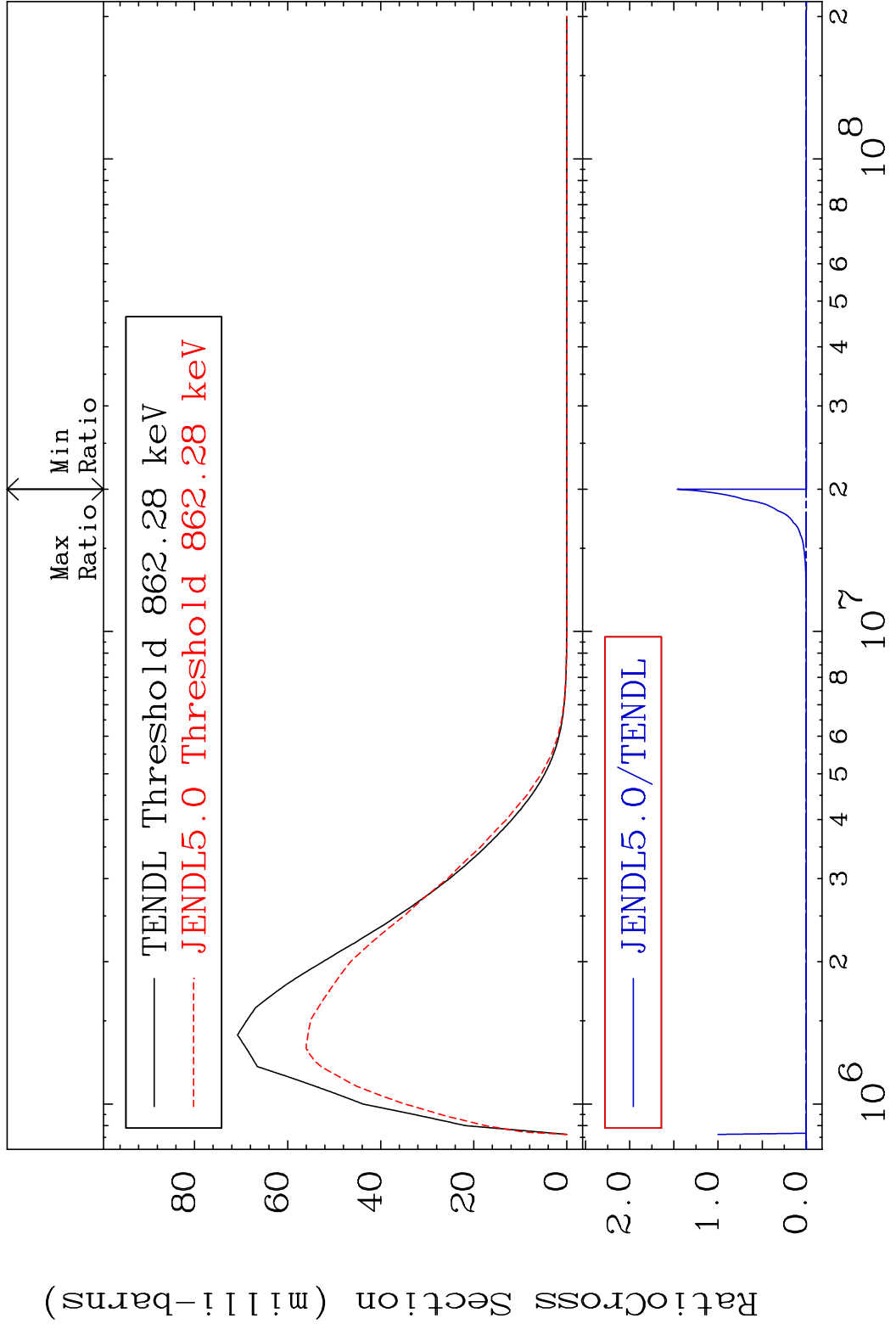
MAT 3319 MT= 62 (n,n') Level 33-As-73
 Cross Section -100.0 To 898.4 %



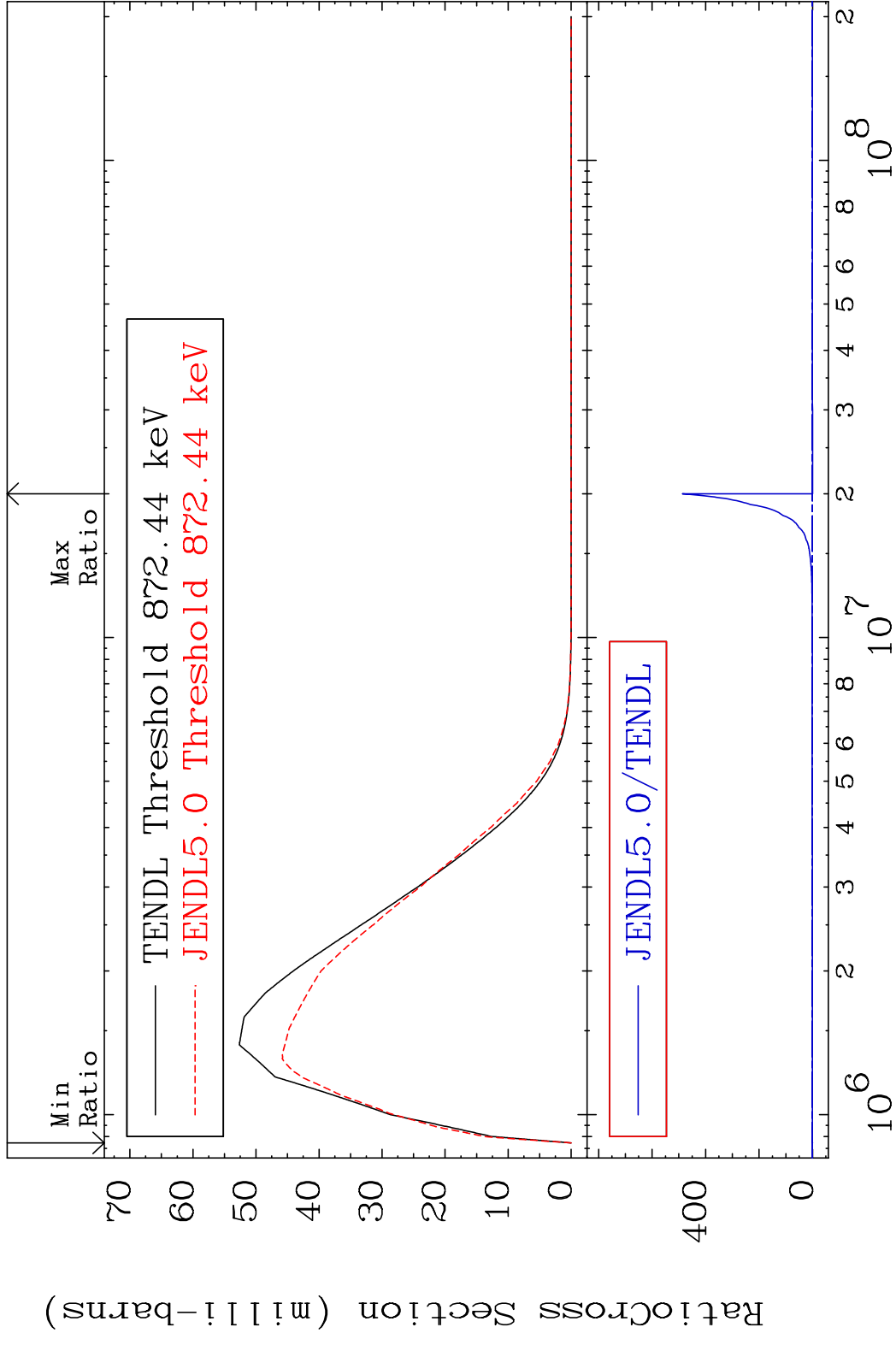
MAT 3319 MT= 63 (n, n') Level 33-As-73
 Cross Section -100.0 To 9999. %



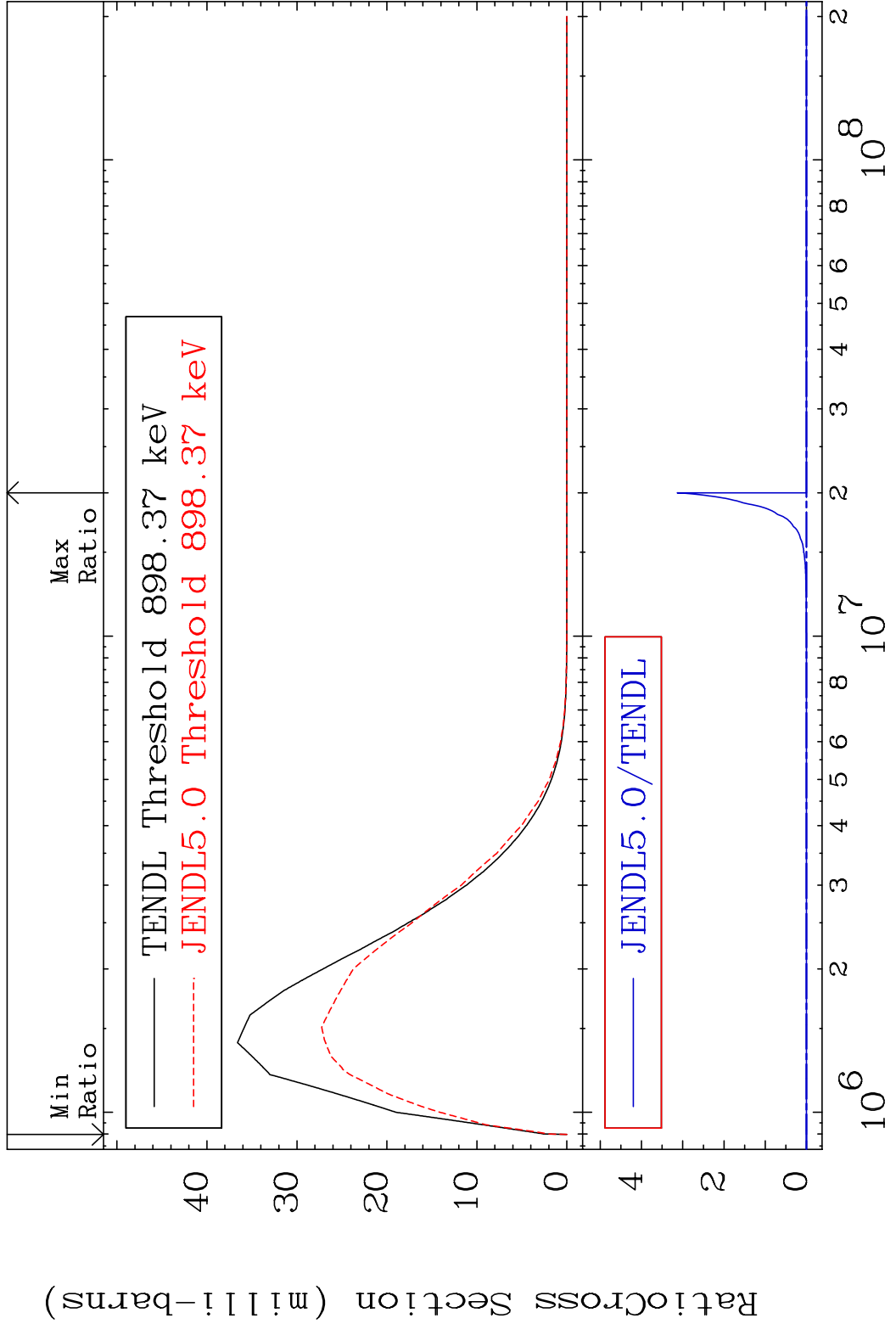
MAT 3319 MT= 64 (n, n') Level 33-As-73
 Cross Section -100.0 To 9999. %



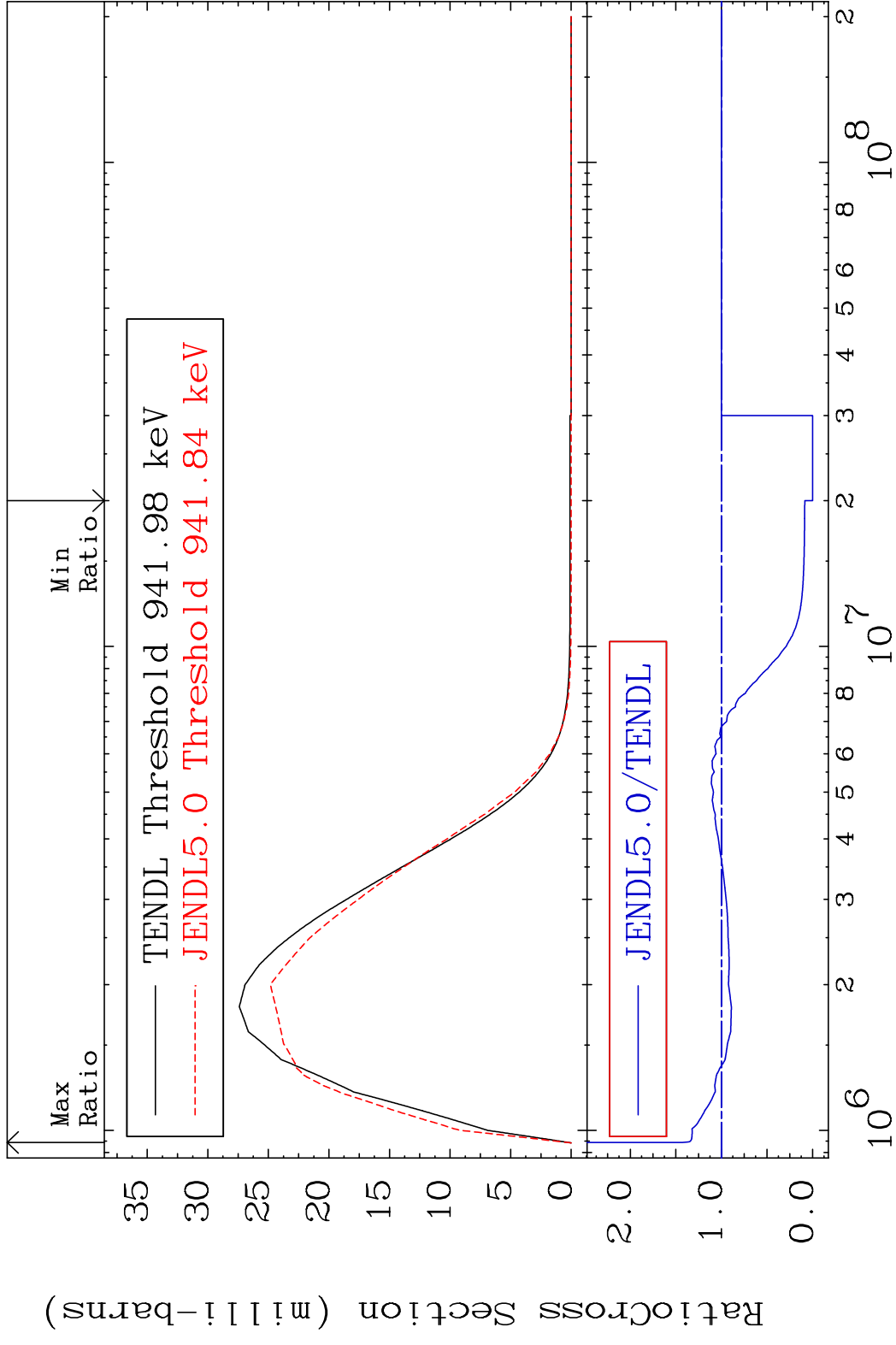
MAT 3319 MT= 65 (n, n') Level 33-As-73
 Cross Section -100.0 To 9999. %



MAT 3319 MT= 66 (n, n') Level 33-As-73
 Cross Section -100.0 To 9999. %

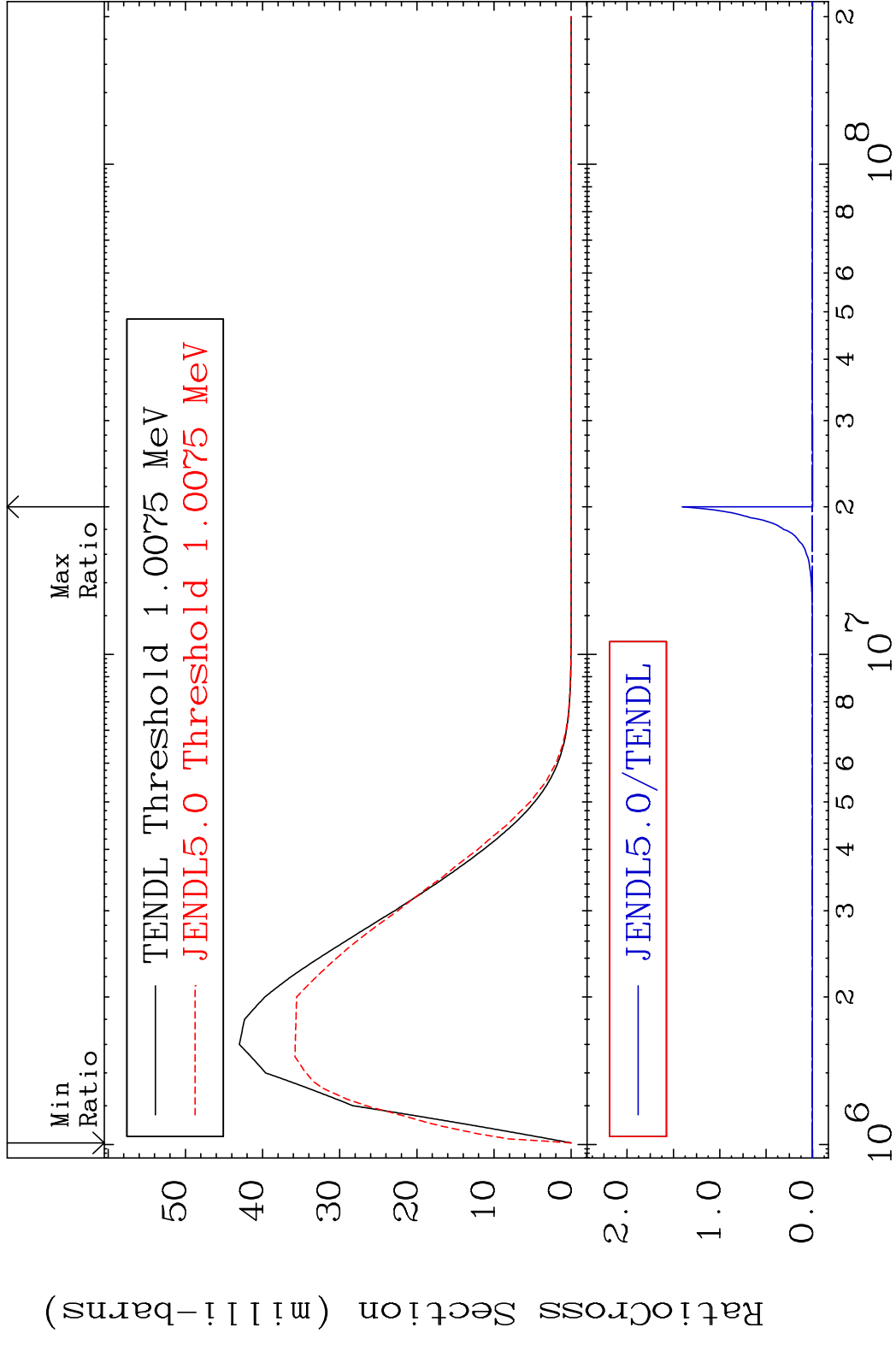


MAT 3319 MT= 67 (n, n') Level 33-As-73
 Cross Section -100.0 To 42.86 %



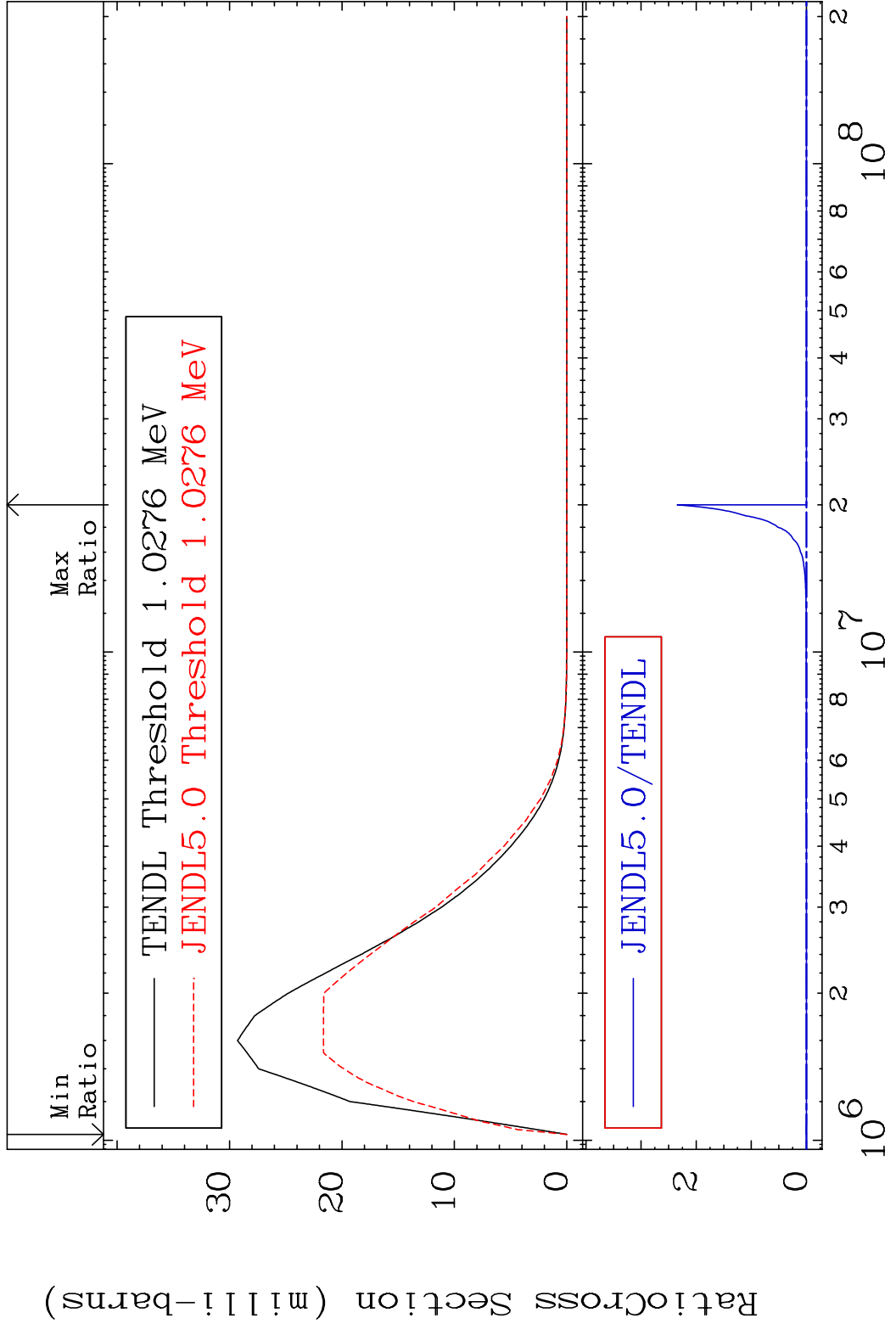
28 Incident Energy (eV) 33-As-73

MAT 3319 MT= 68 (n, n') Level 33-As-73
 Cross Section -100.0 To 9999. %



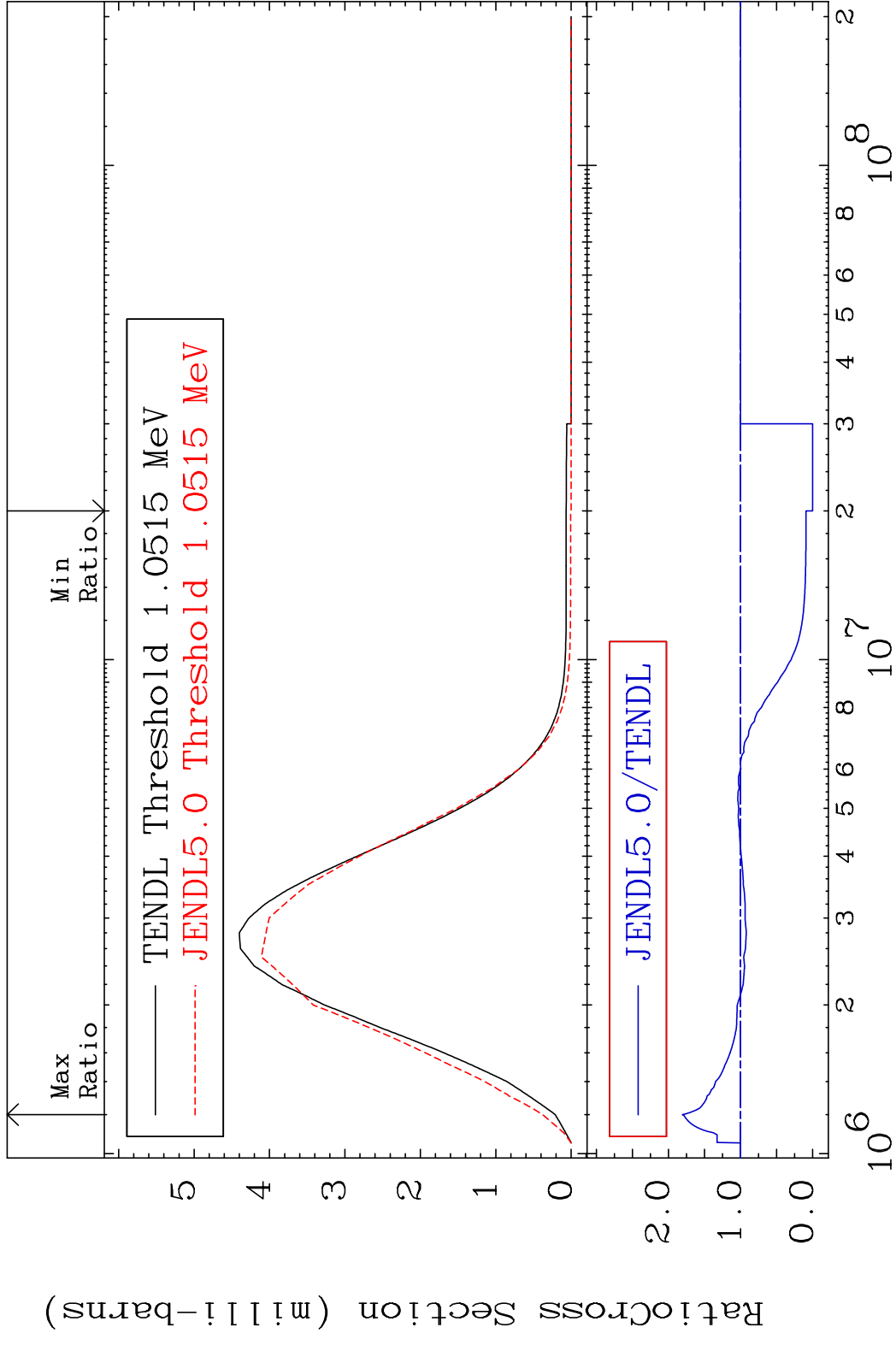
29 Incident Energy (eV) 33-As-73

MAT 3319 MT= 69 (n, n') Level 33-As-73
 Cross Section -100.0 To 9999. %

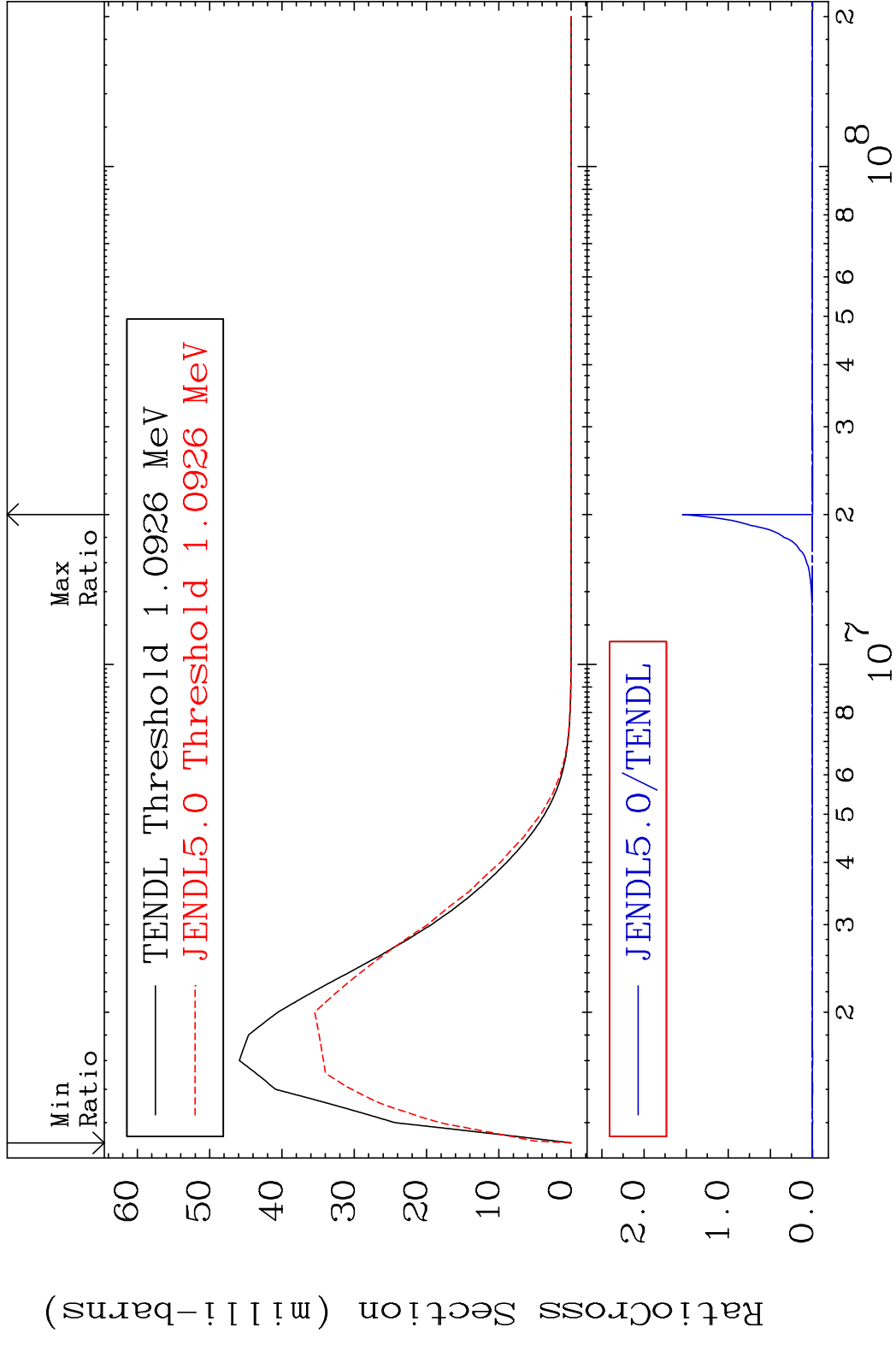


30 Incident Energy (eV) 33-As-73

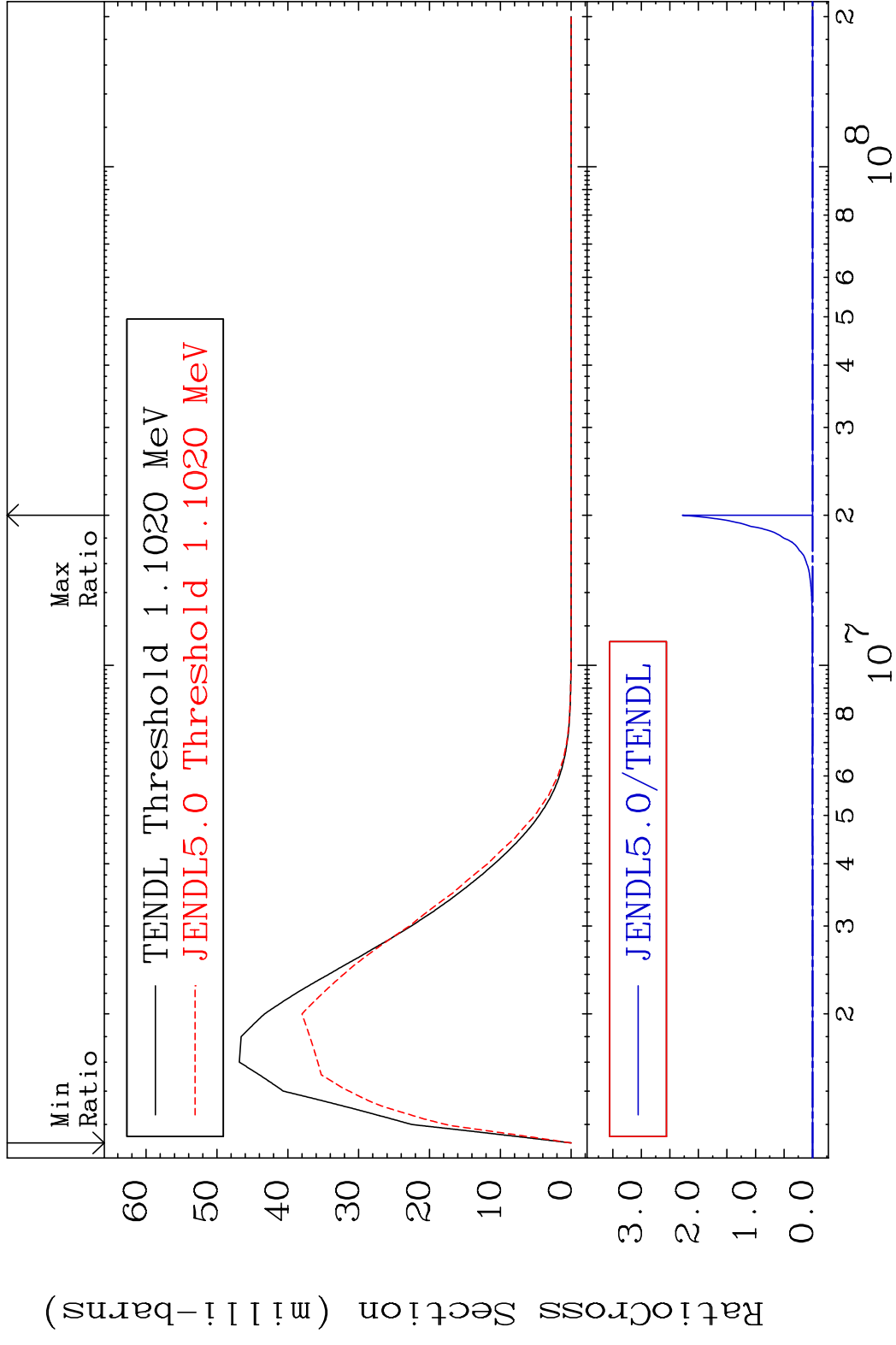
MAT 3319 MT= 70 (n, n') Level 33-As-73
 Cross Section -100.0 To 80.72 %



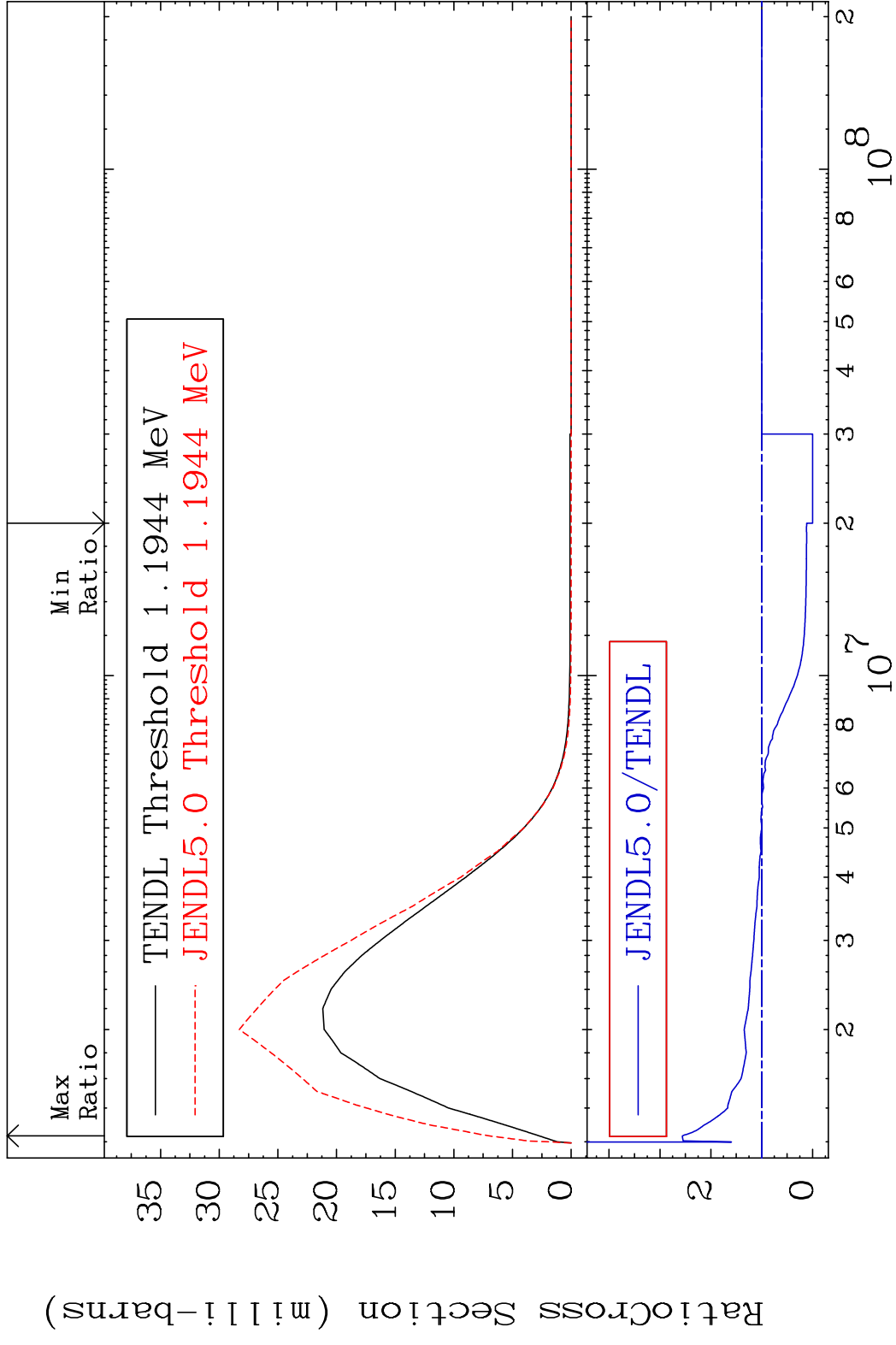
MAT 3319 MT= 71 (n, n') Level 33-As-73
 Cross Section -100.0 To 9999. %



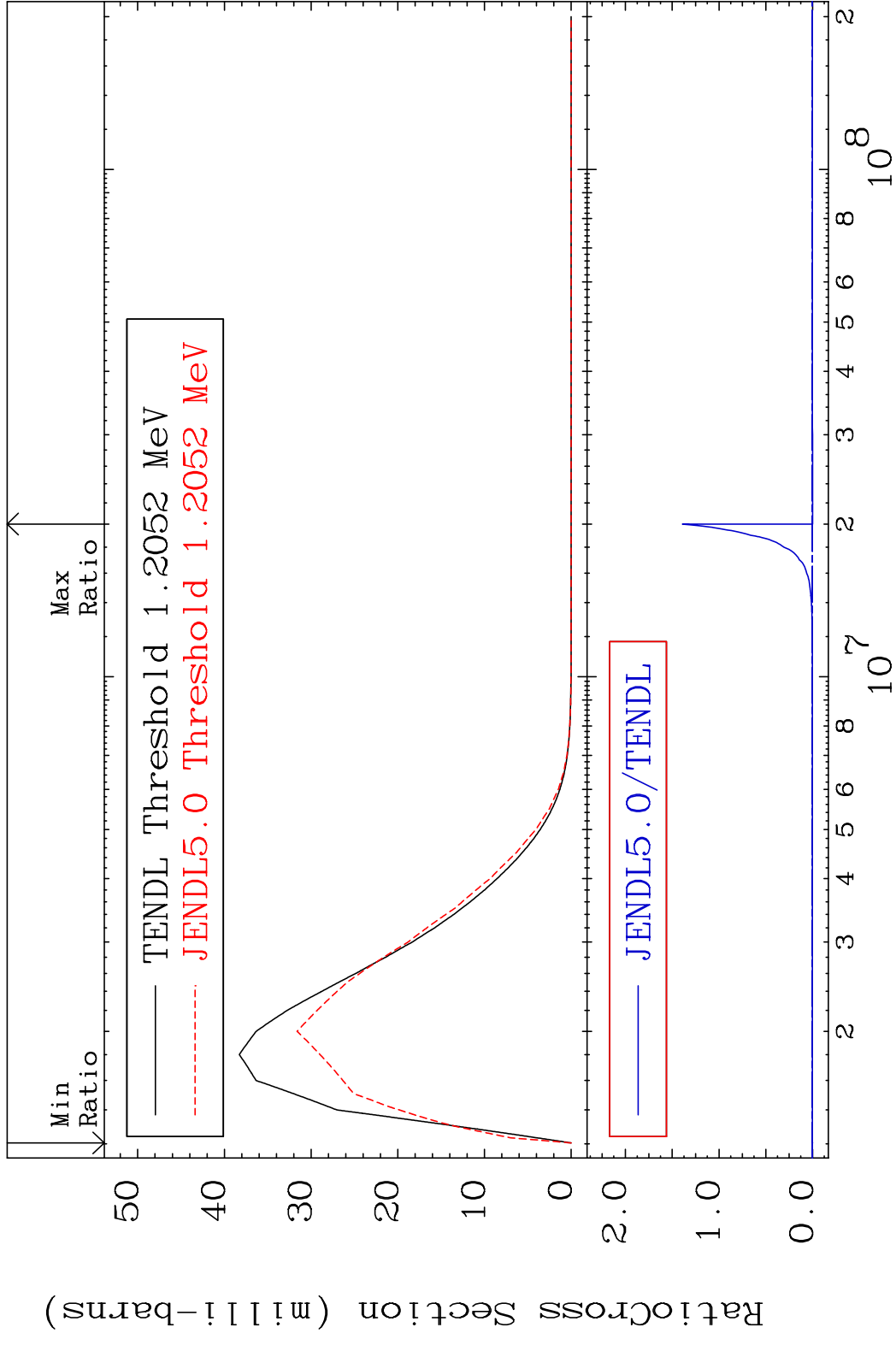
MAT 3319 MT= 72 (n, n') Level 33-As-73
 Cross Section -100.0 To 9999. %



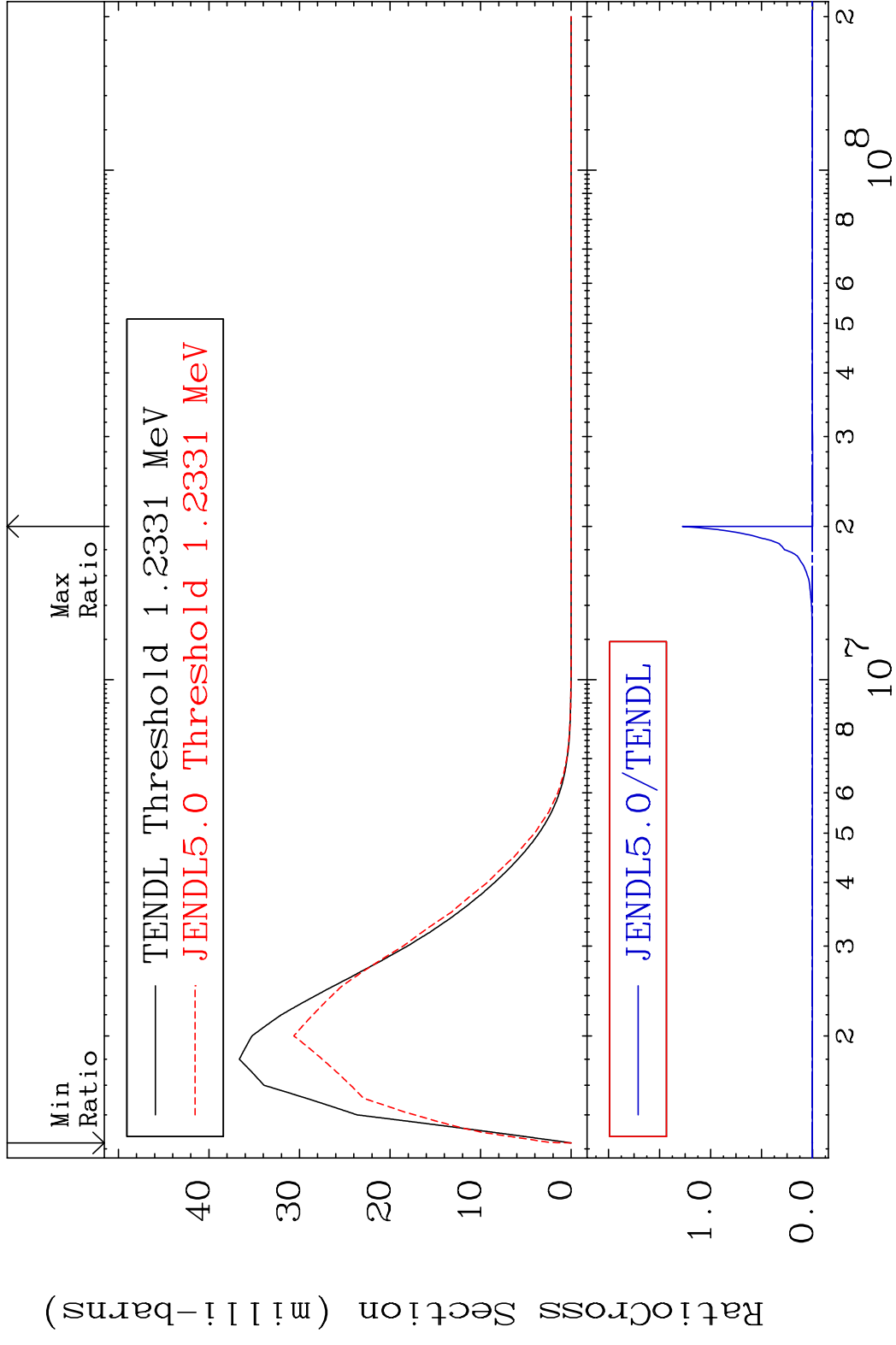
MAT 3319 MT= 73 (n, n') Level 33-As-73
 Cross Section -100.0 To 155.9 %



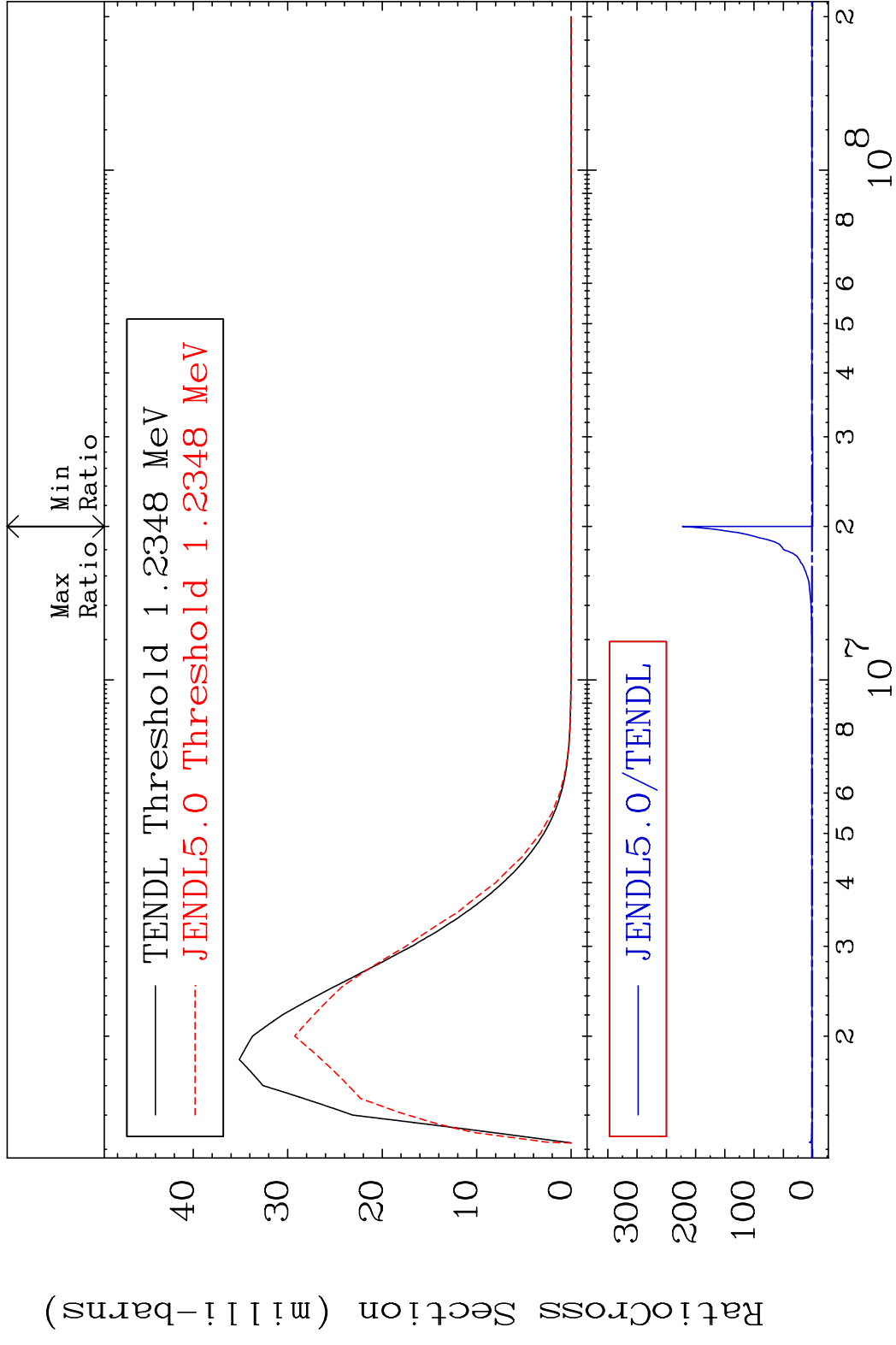
MAT 3319 MT= 74 (n, n') Level 33-As-73
 Cross Section -100.0 To 9999. %



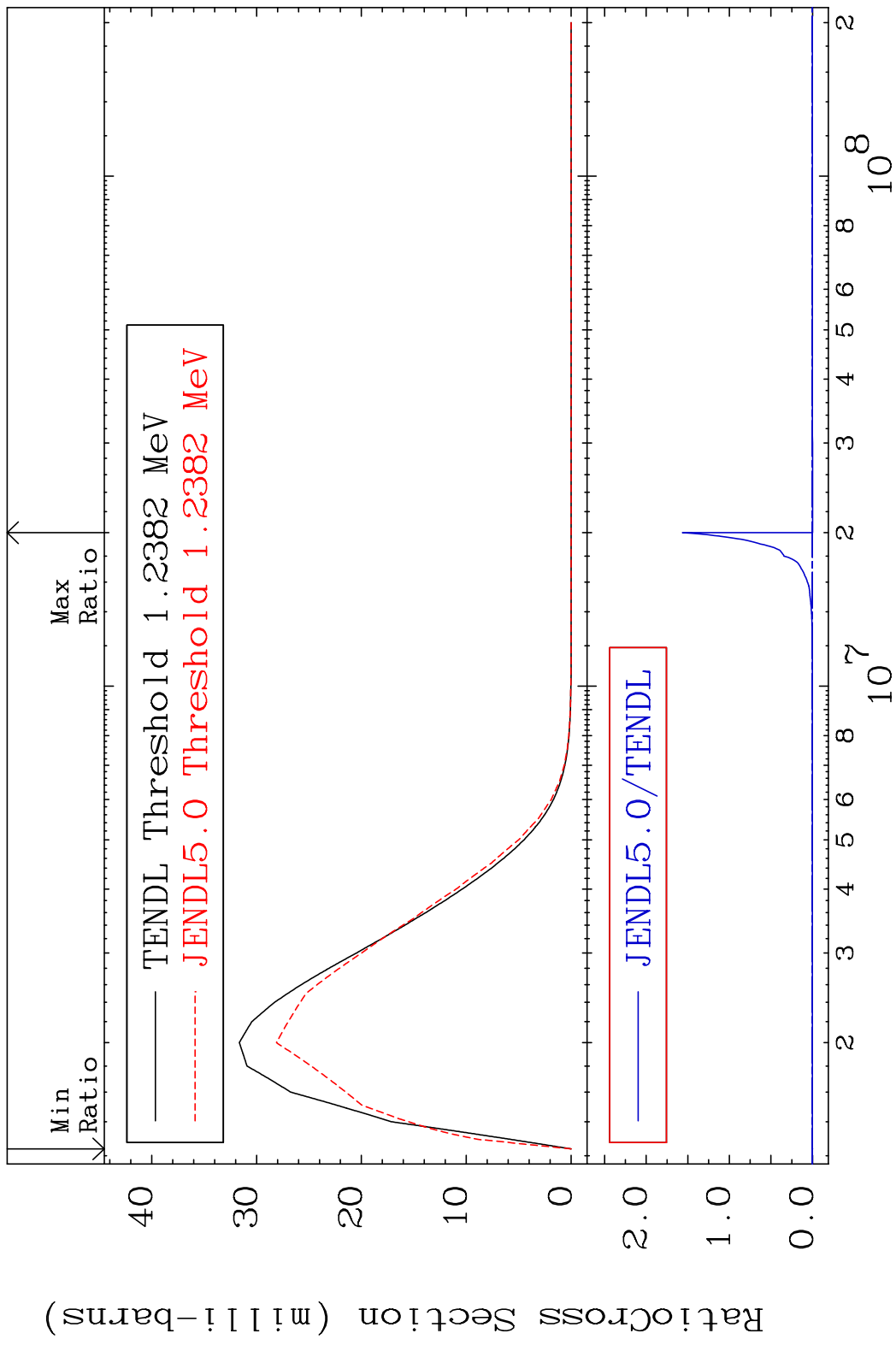
MAT 3319 MT= 75 (n, n') Level 33-As-73
 Cross Section -100.0 To 9999. %



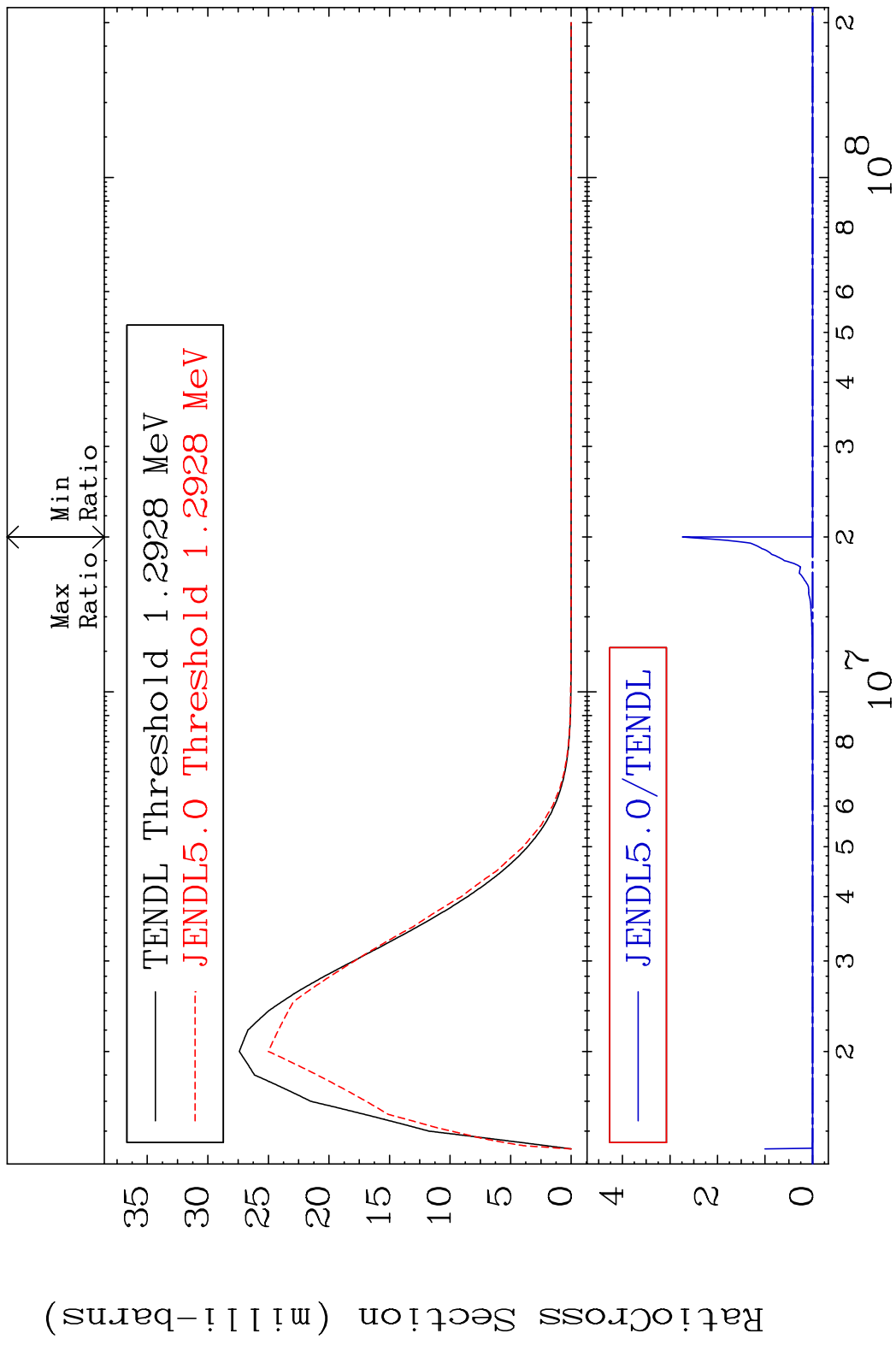
MAT 3319 MT= 76 (n, n') Level 33-As-73
 Cross Section -100.0 To 9999. %



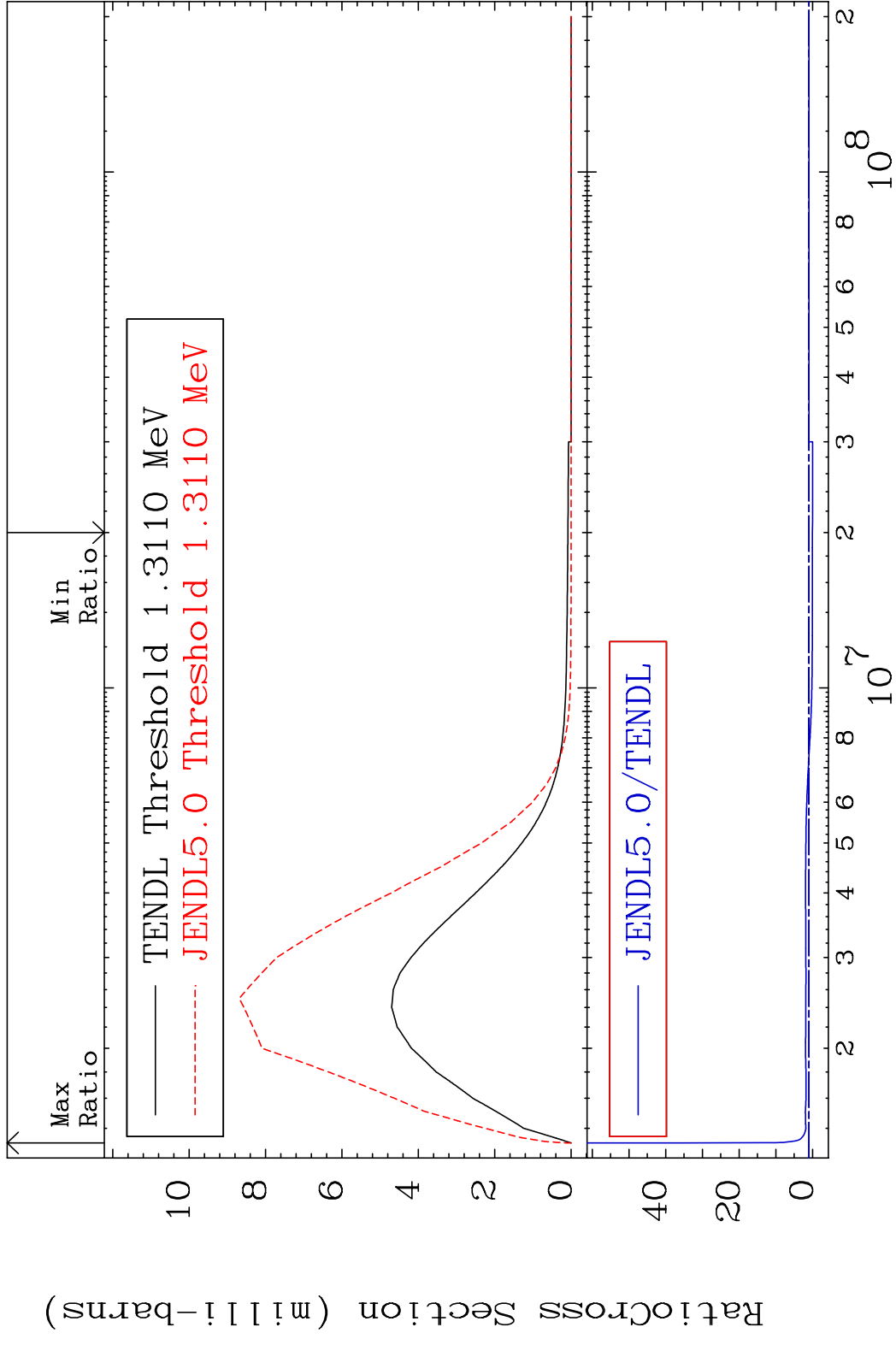
MAT 3319 MT= 77 (n, n') Level 33-As-73
 Cross Section -100.0 To 9999. %



MAT 3319 MT= 78 (n, n') Level 33-As-73
 Cross Section -100.0 To 9999. %

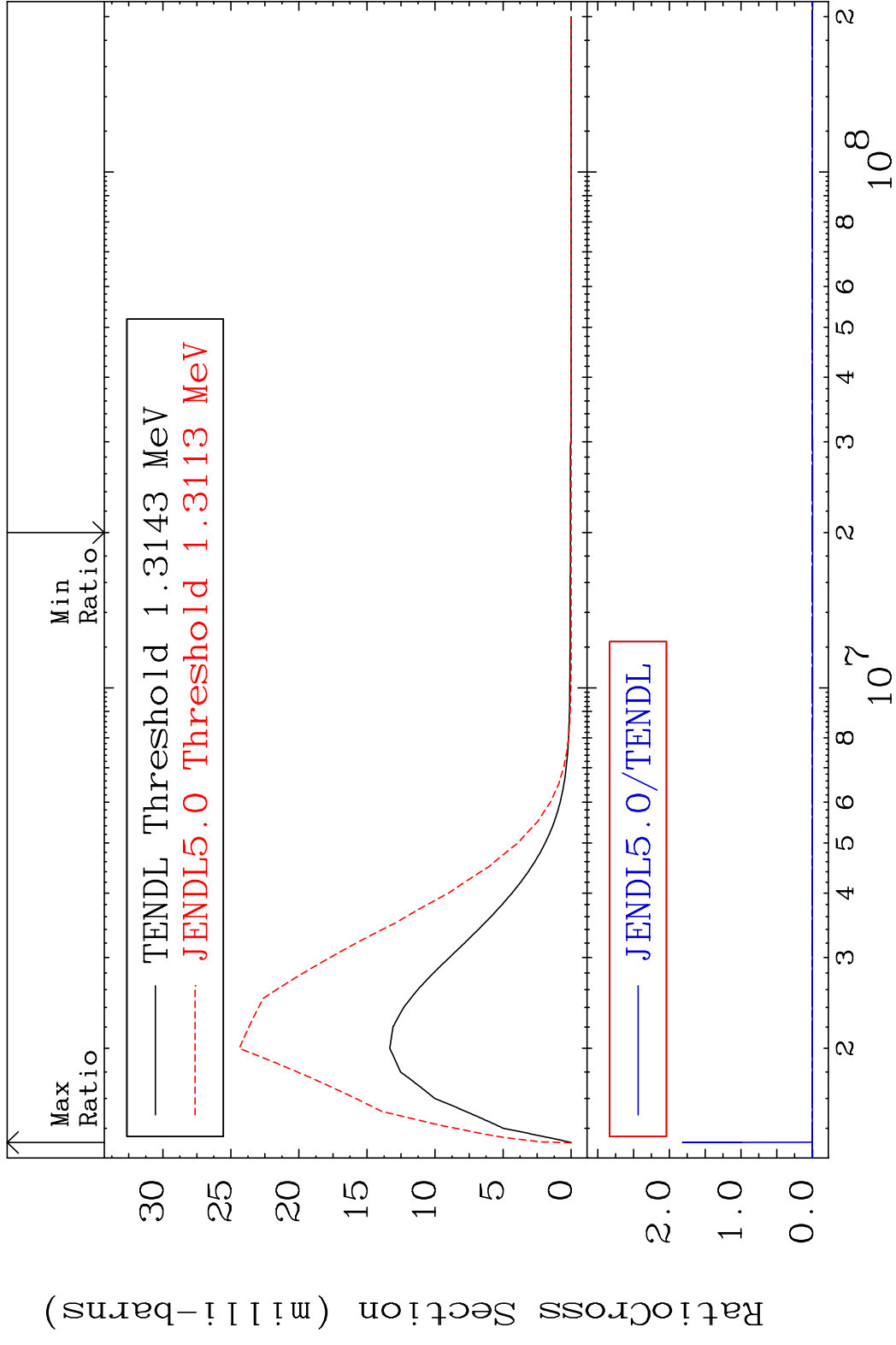


MAT 3319 MT= 79 (n, n') Level 33-As-73
 Cross Section -100.0 To 3446. %



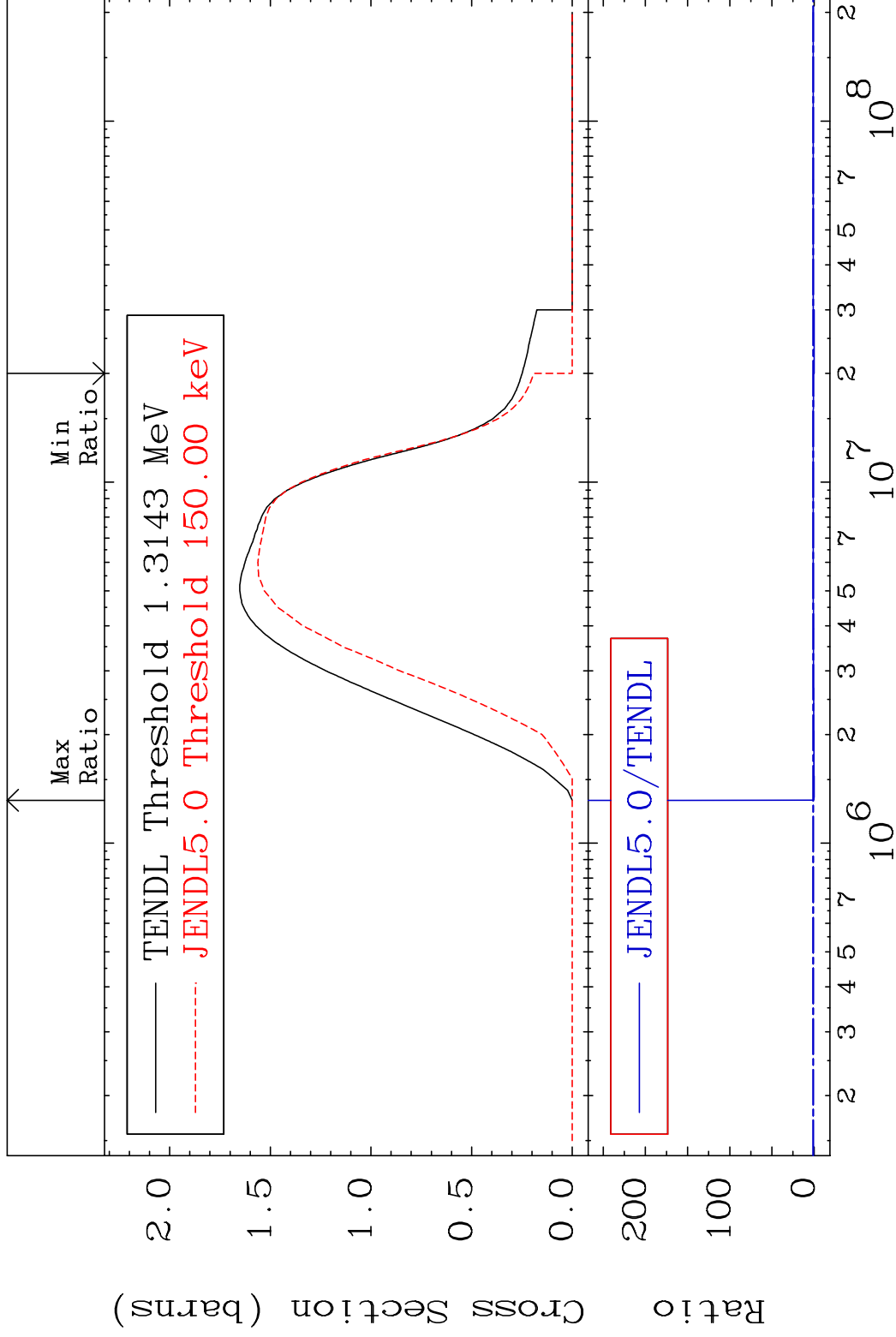
40 Incident Energy (eV) 33-As-73

MAT 3319 MT= 80 (n, n') Level 33-As-73
 Cross Section -100.0 To 9999. %



MAT 3319

(n,n') Continuum 33-As-73
Cross Section -100.0 To 9999. %



42

Incident Energy (eV)

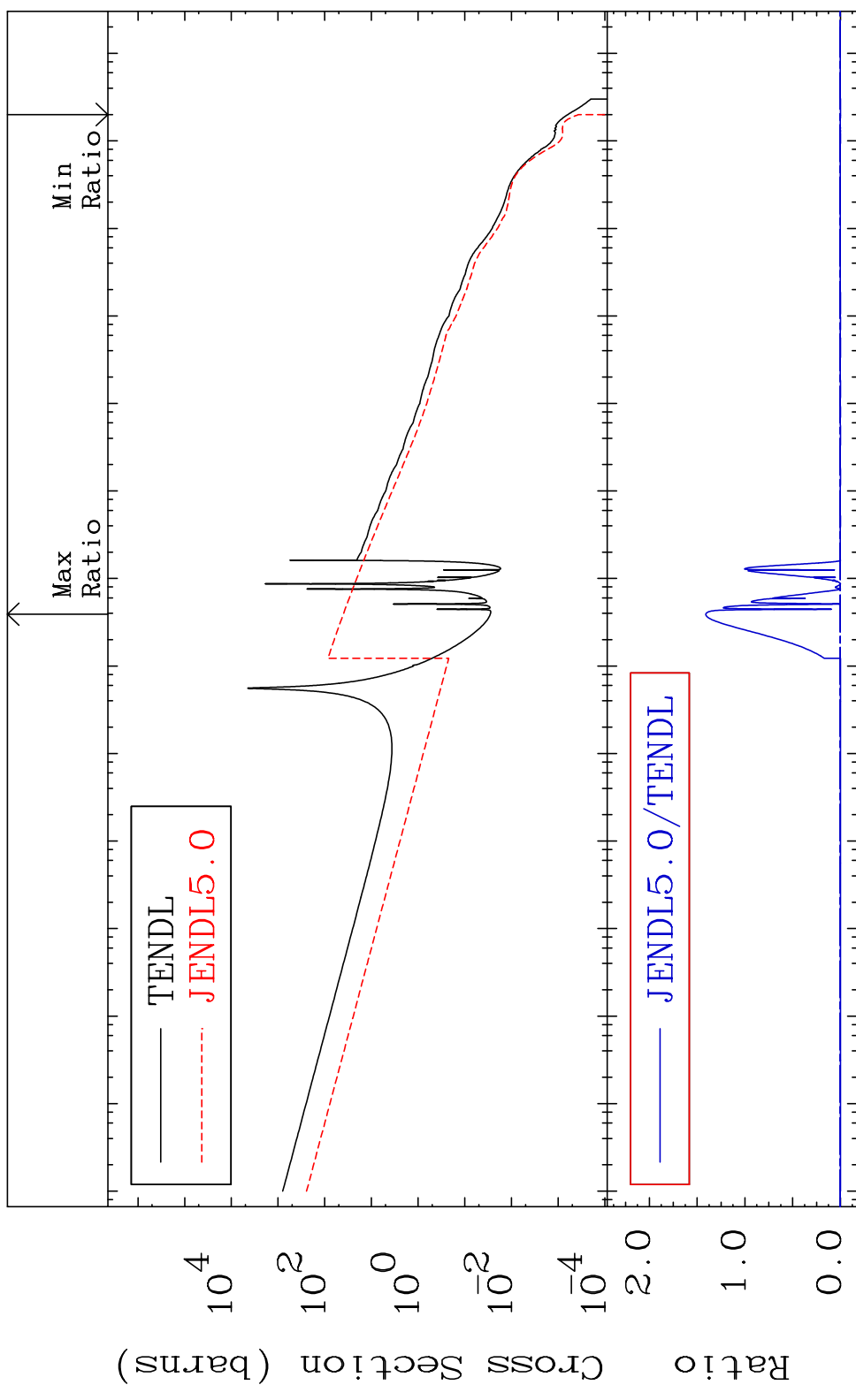
33-As-73

MAT 3319

(n, γ)

33-As-73

Cross Section -100.0 To 9999. %



43

Incident Energy (eV)

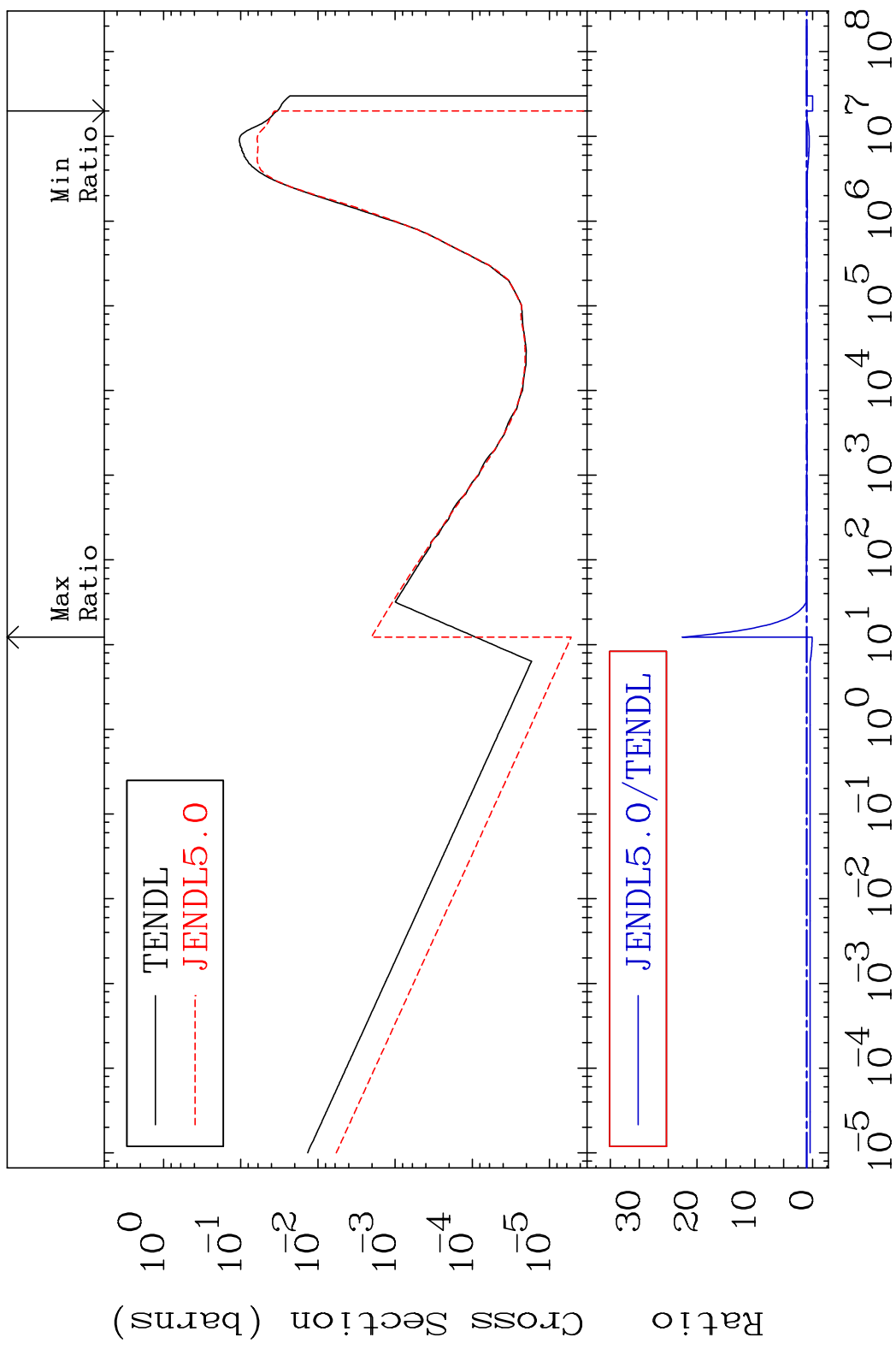
33-As-73

MAT 3319

(n, p)

33-As-73

Cross Section -100.0 To 2154. %

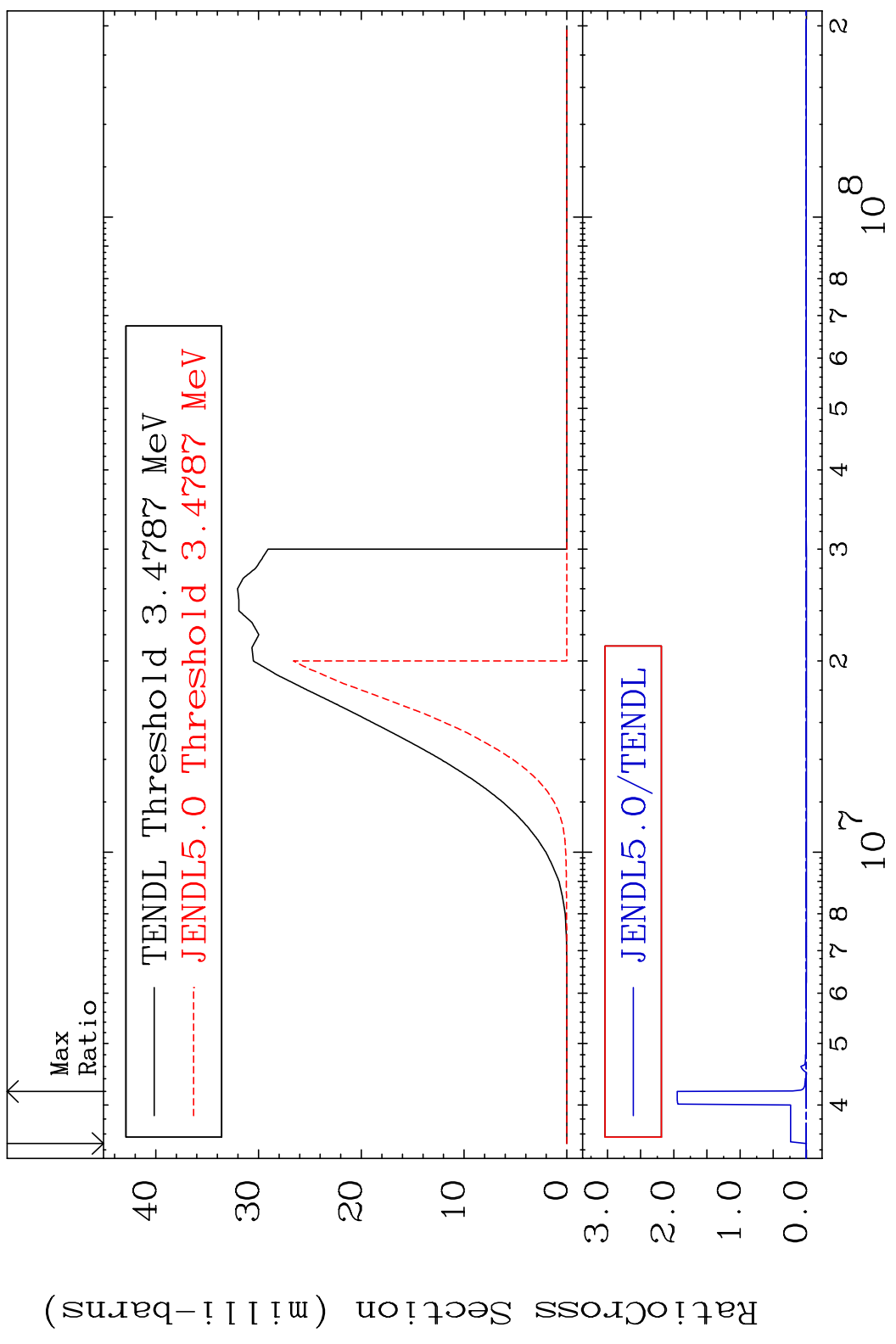


MAT 3319

(n, d)

33-As-73

Cross Section -100.0 To 9999. %



45

Incident Energy (eV)

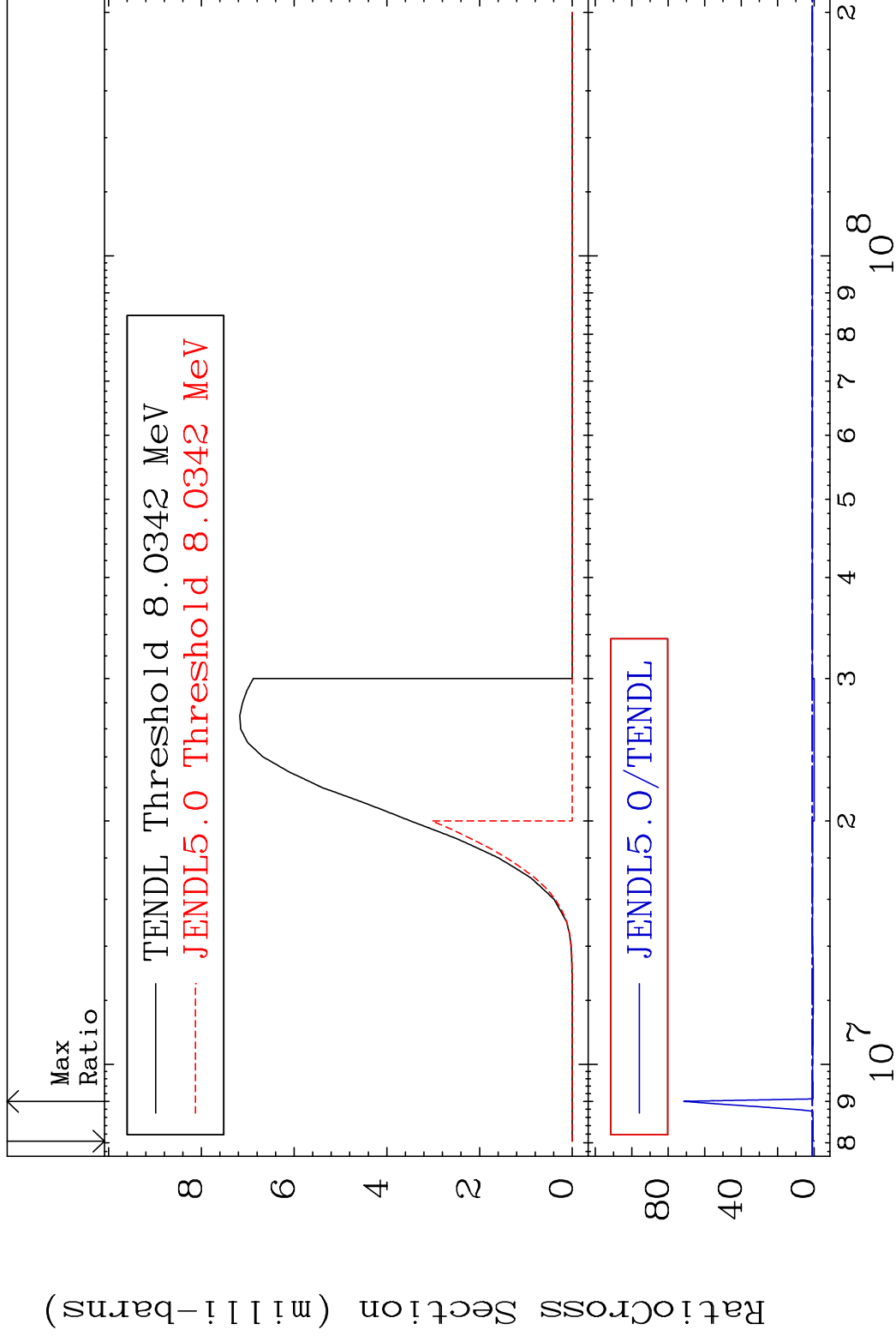
33-As-73

MAT 3319

(n, t)

33-AS-73

Cross Section -100.0 To 7055. %



46

Incident Energy (eV)

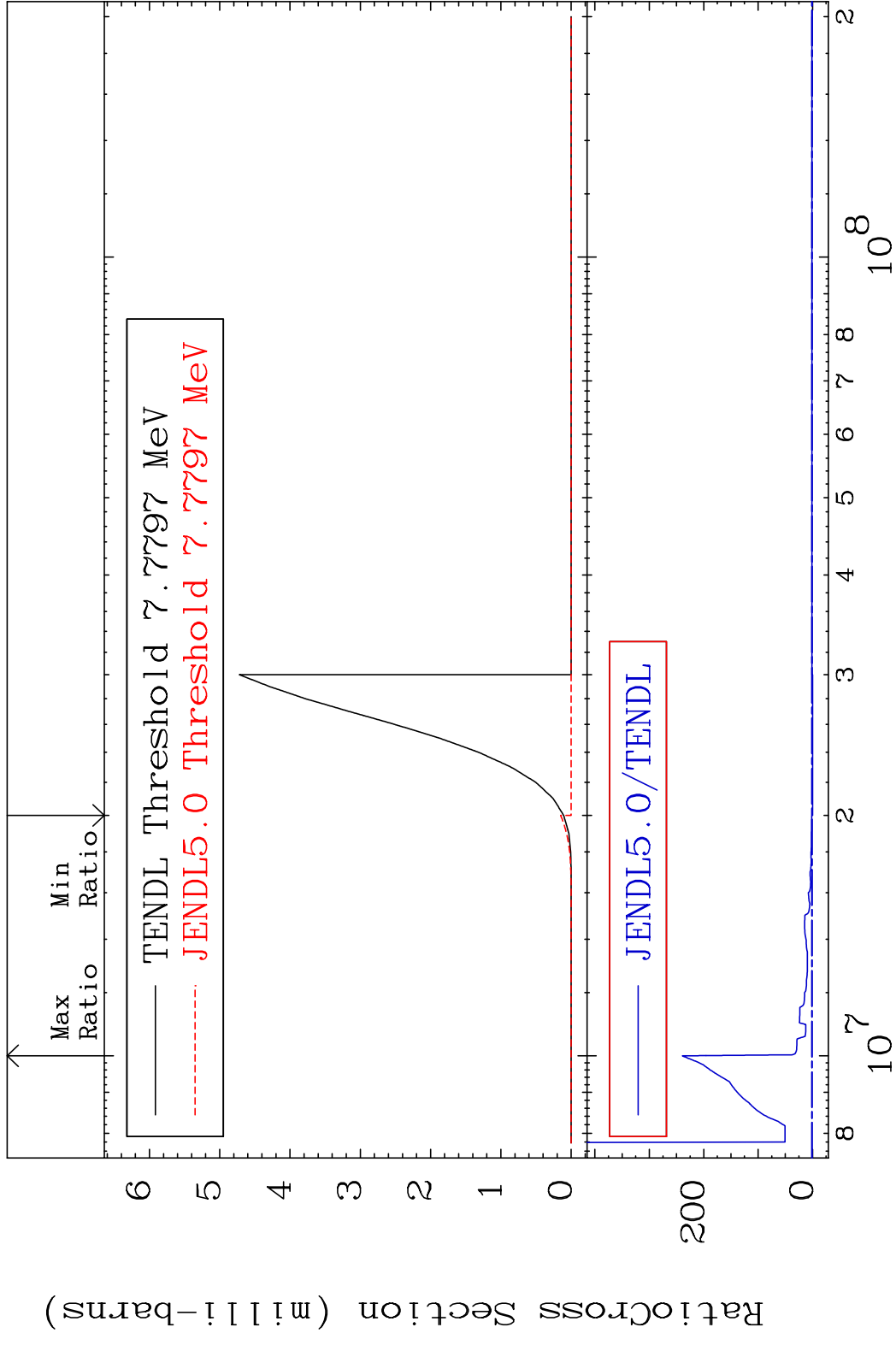
33-AS-73

MAT 3319

(n, He-3)

33-As-73

Cross Section -100.0 To 9999. %



47

Incident Energy (eV)

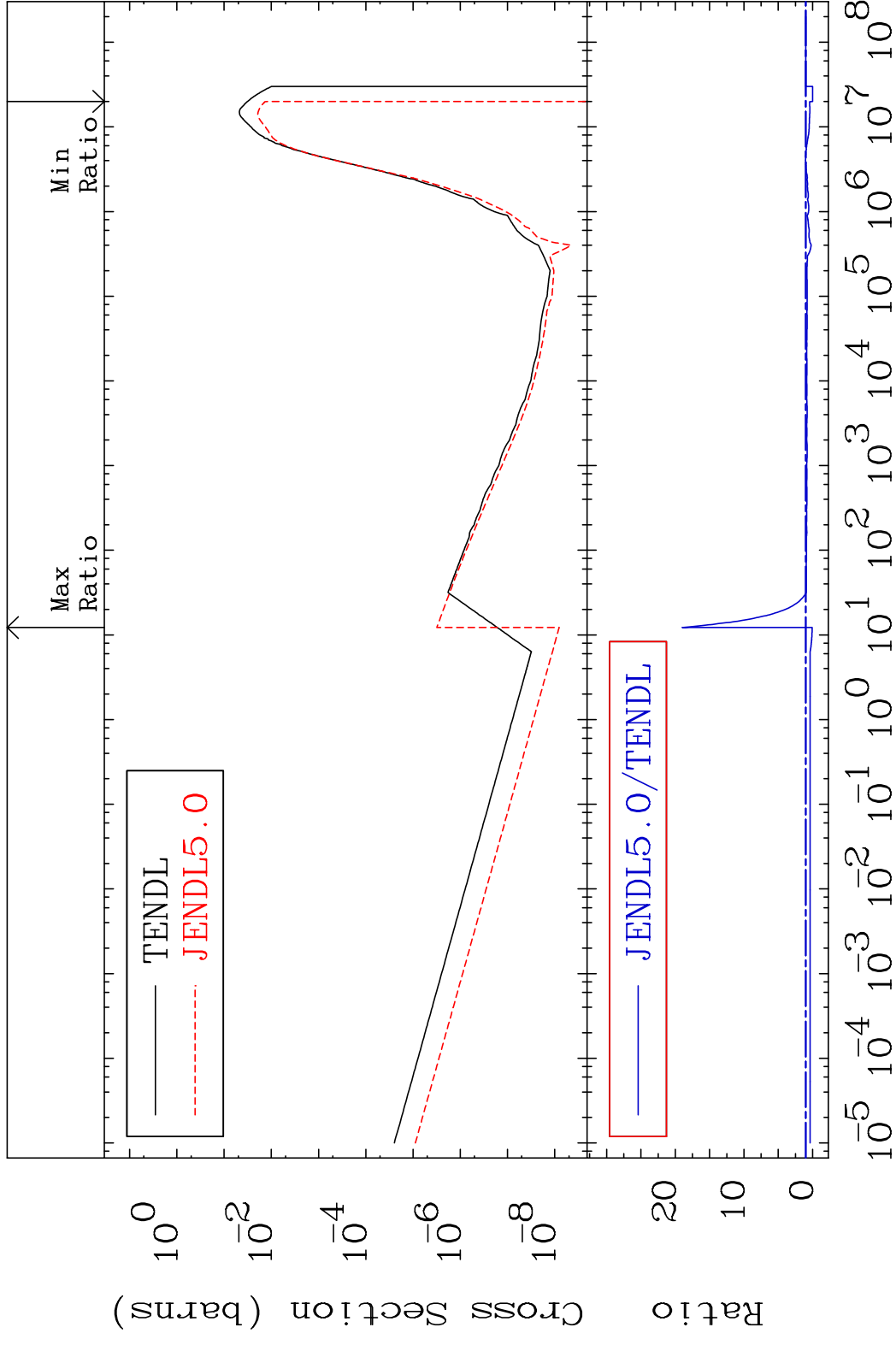
33-As-73

MAT 3319

(n, α)

33-AS-73

Cross Section -100.0 To 1797. %



48

Incident Energy (eV)

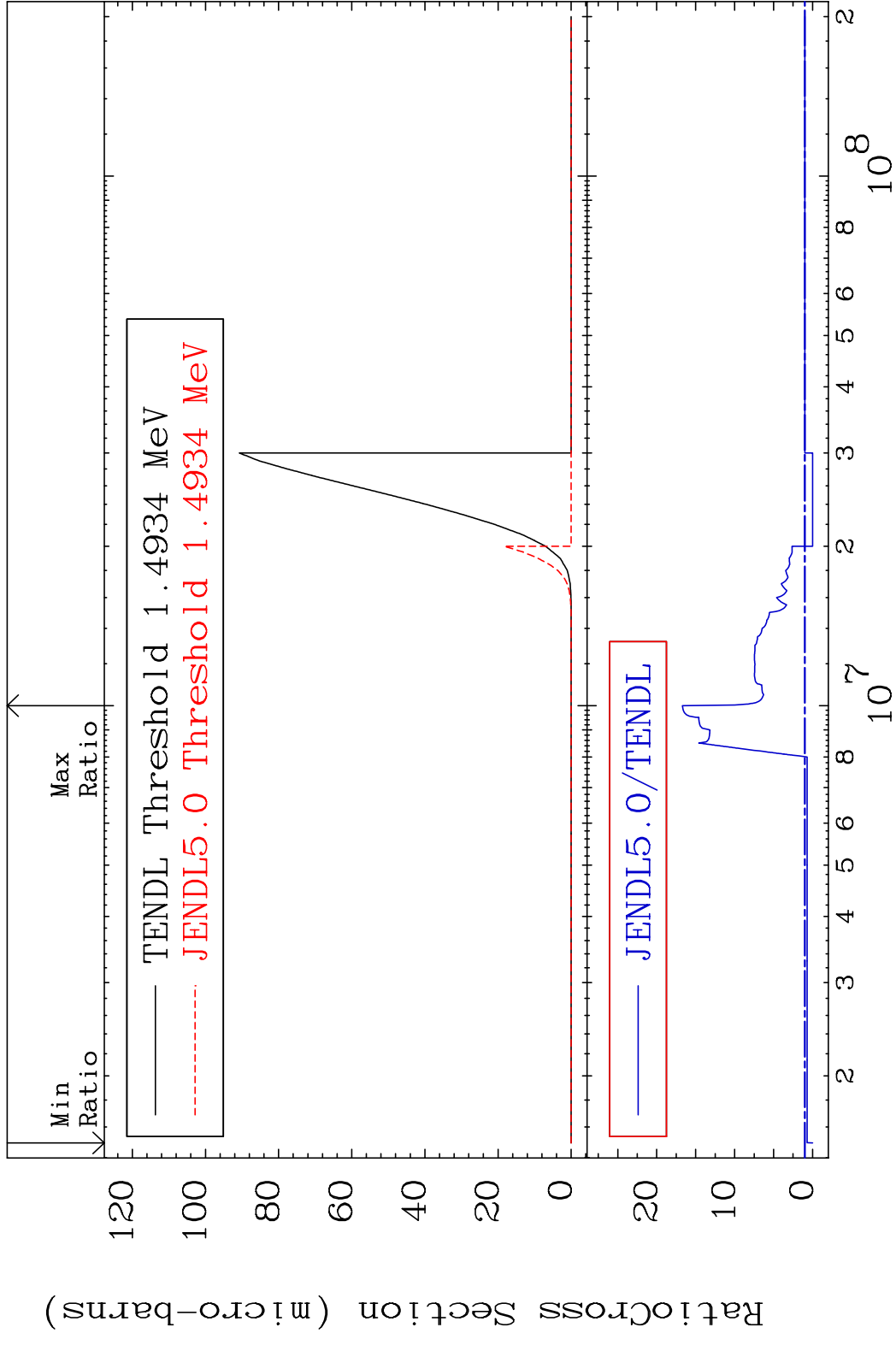
33-AS-73

MAT 3319

(n,2α)

33-AS-73

Cross Section -100.0 To 1571. %



49

Incident Energy (eV)

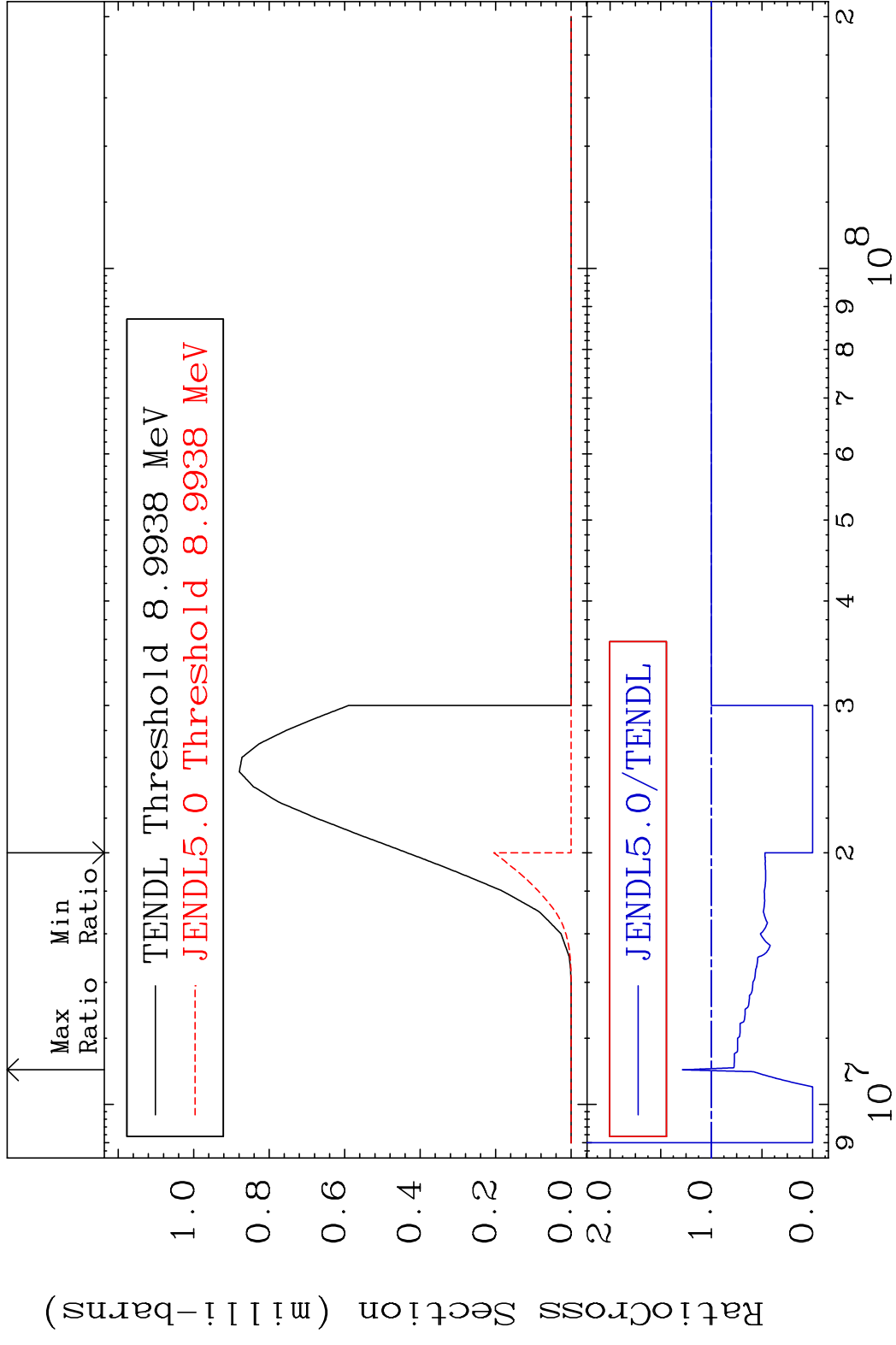
33-AS-73

MAT 3319

(n,2p)

33-As-73

Cross Section -100.0 To 28.57 %



50

Incident Energy (eV)

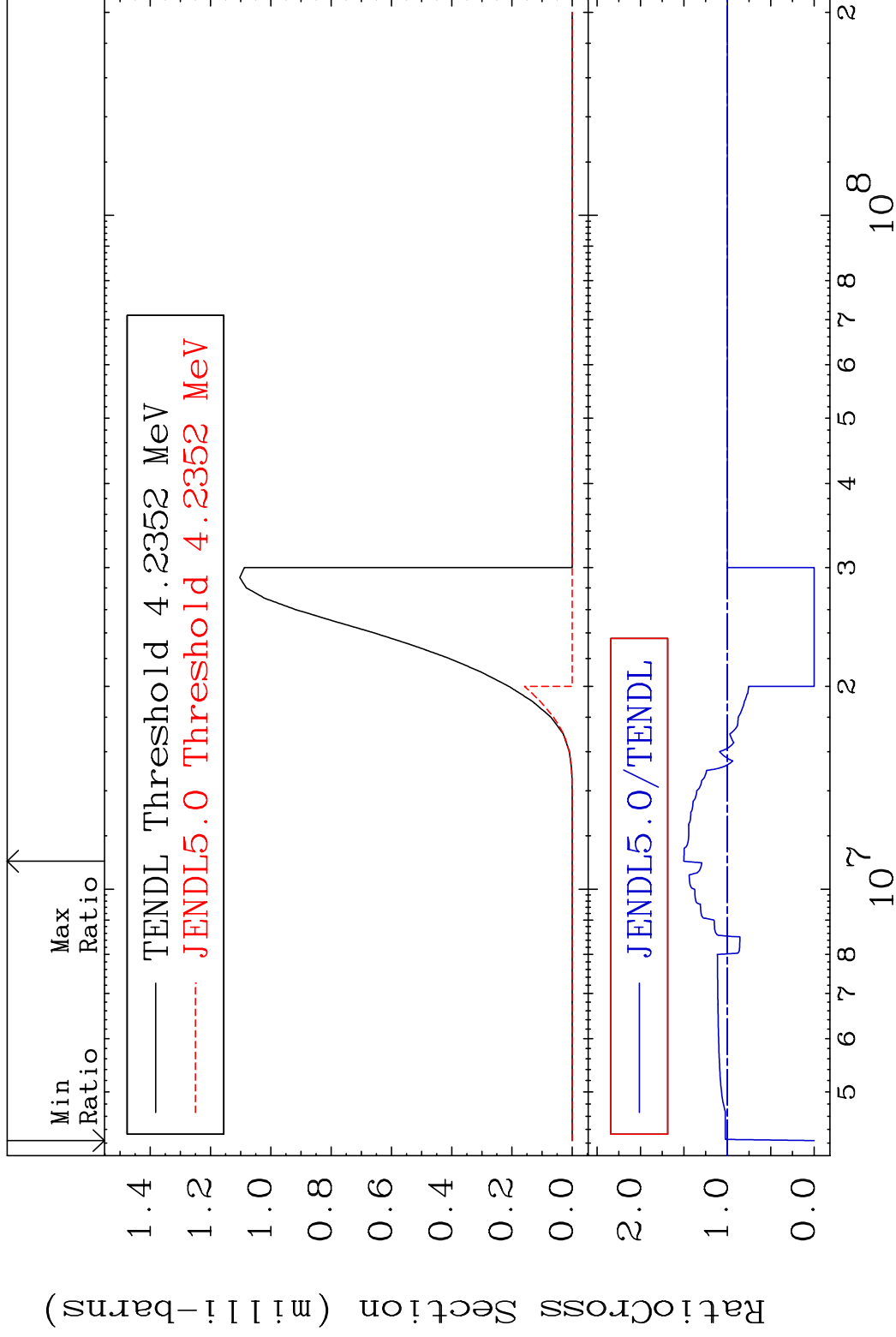
33-As-73

MAT 3319

(n,p) α

33-As-73

Cross Section -100.0 To 50.22 %

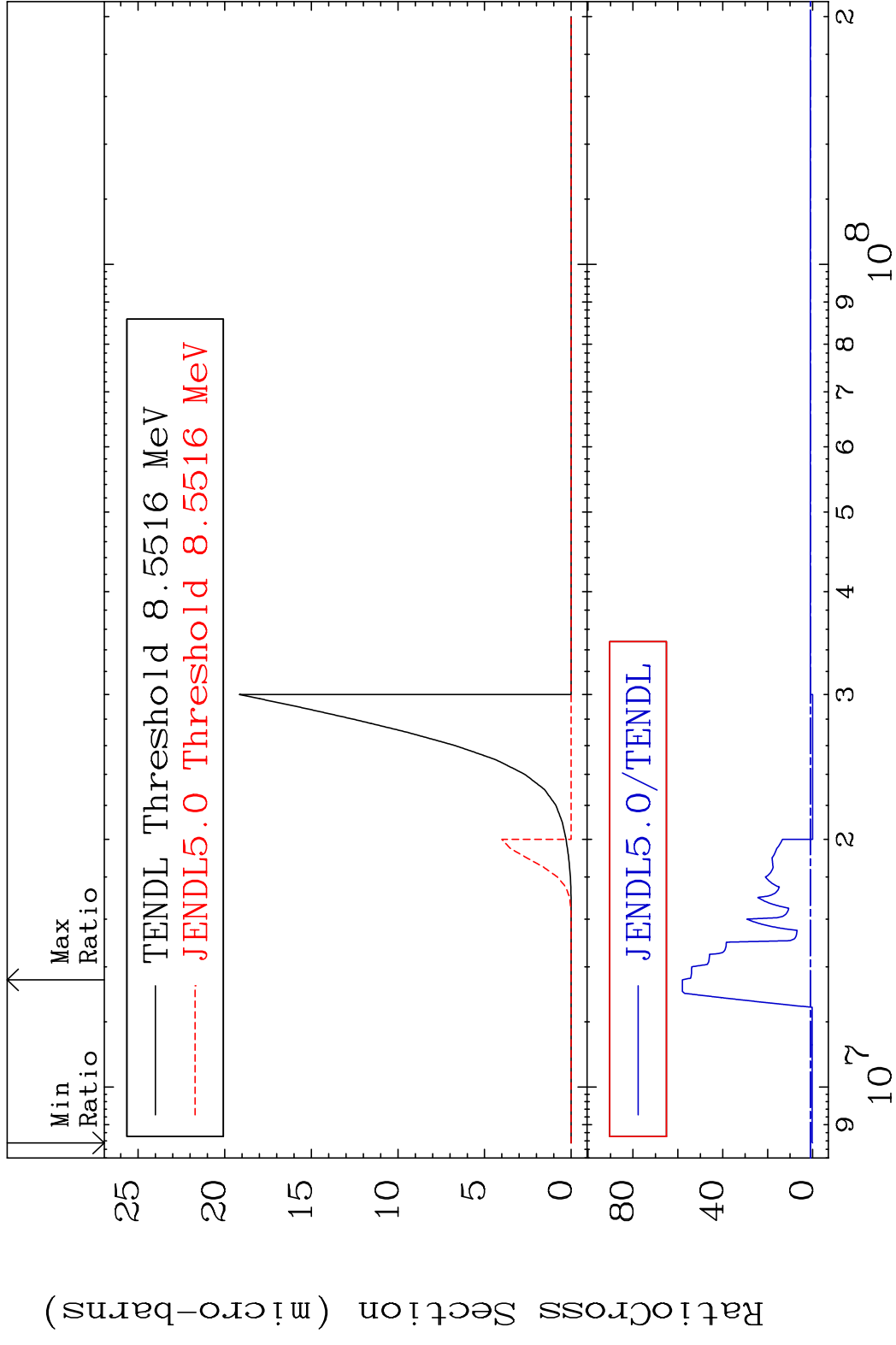


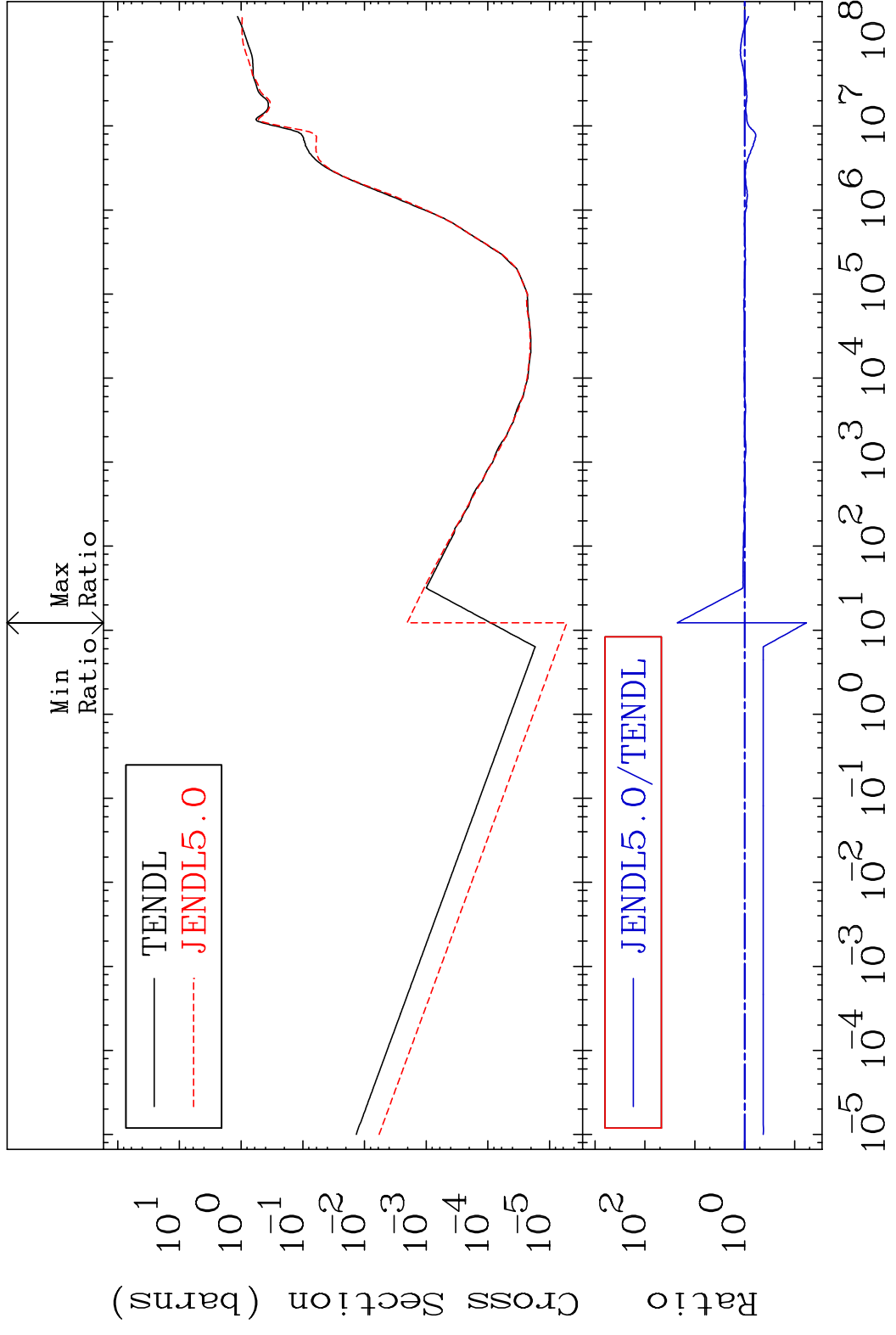
MAT 3319

(n,d) α

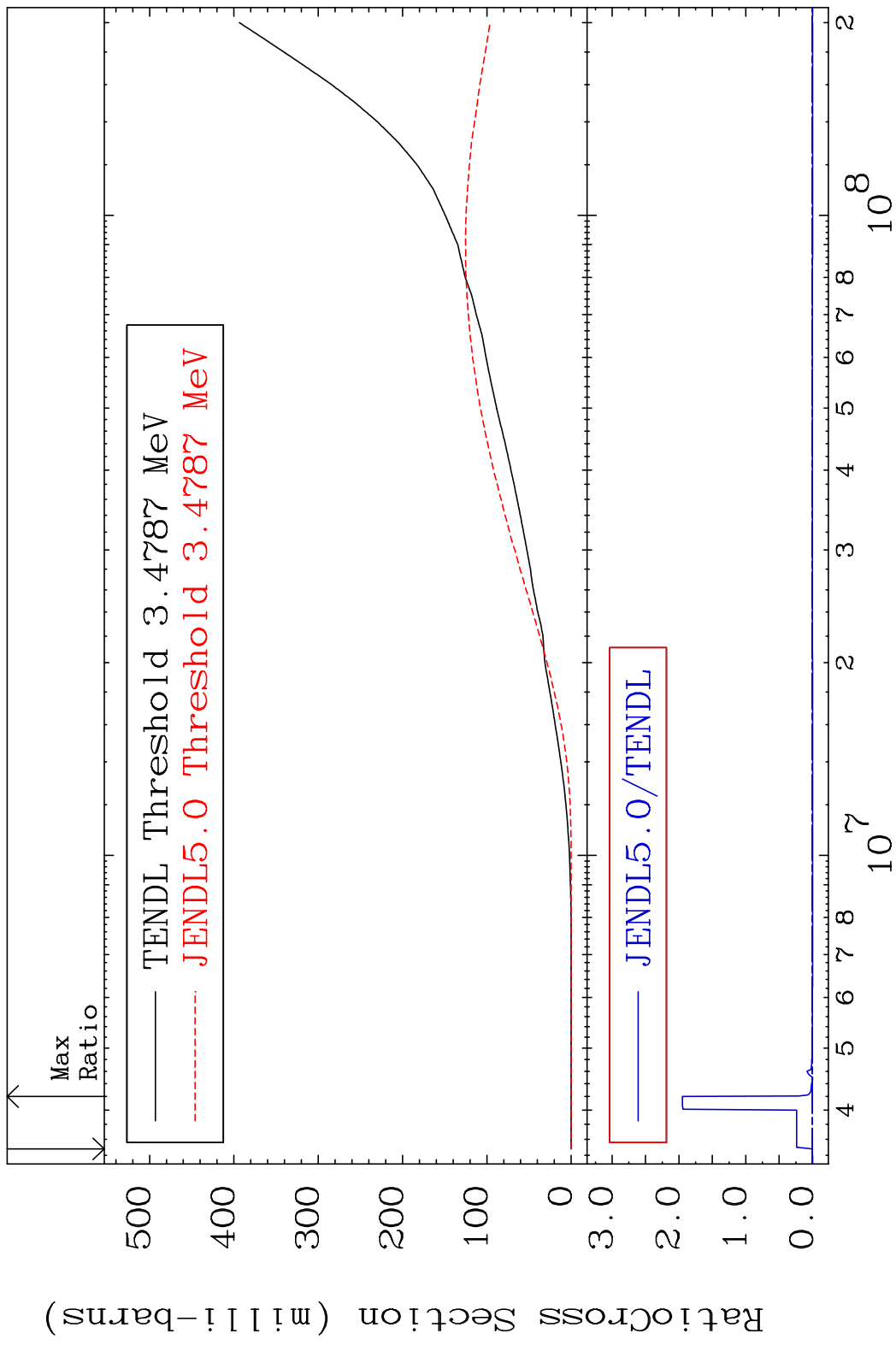
33-As-73

Cross Section -100.0 To 5700. %





MAT 3319 Deuterium Production 33-As-73
 Cross Section -100.0 To 9999. %

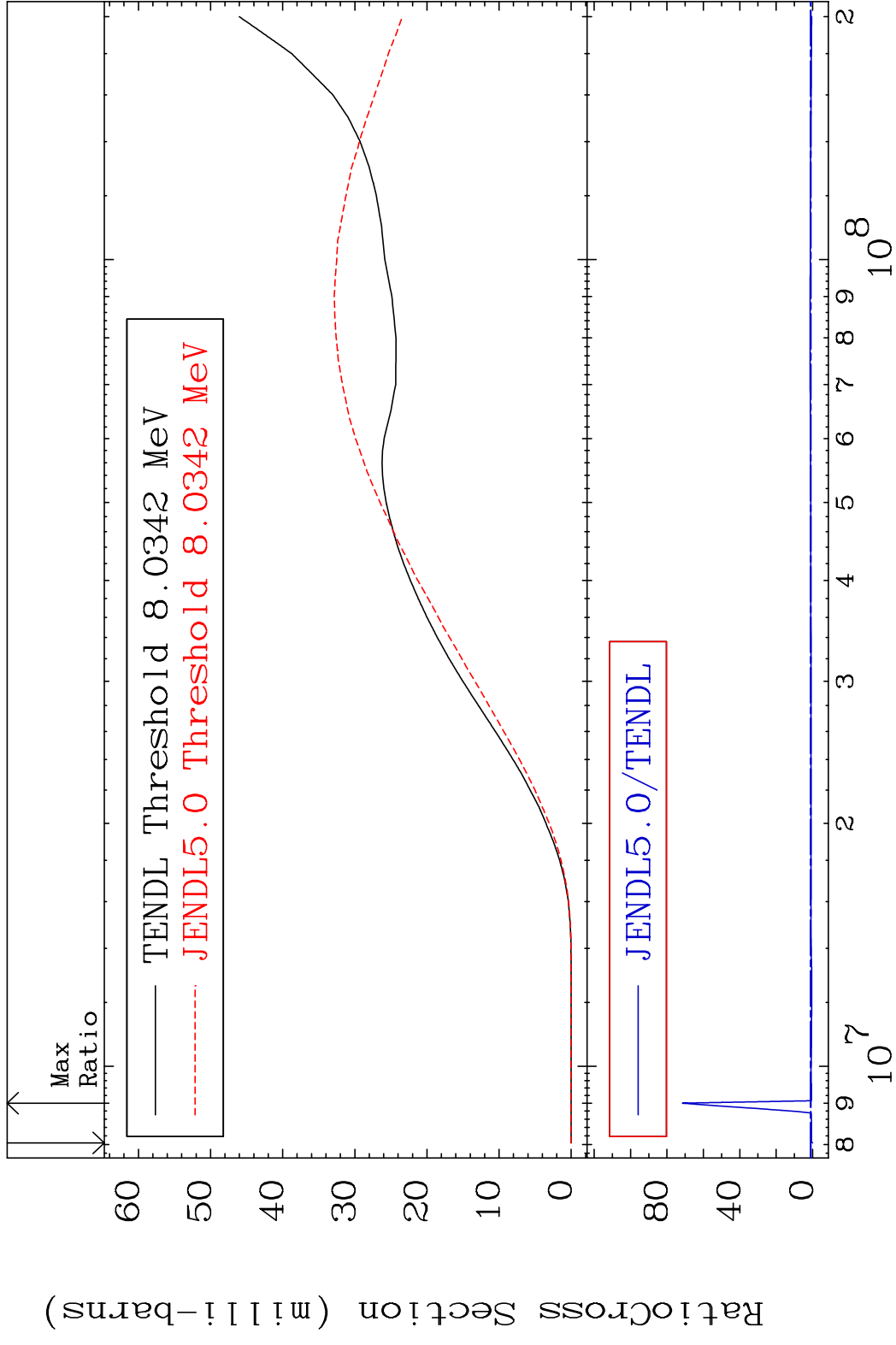


MAT 3319

Tritium Production

33-As-73

Cross Section -100.0 To 7055. %



55

Incident Energy (eV)

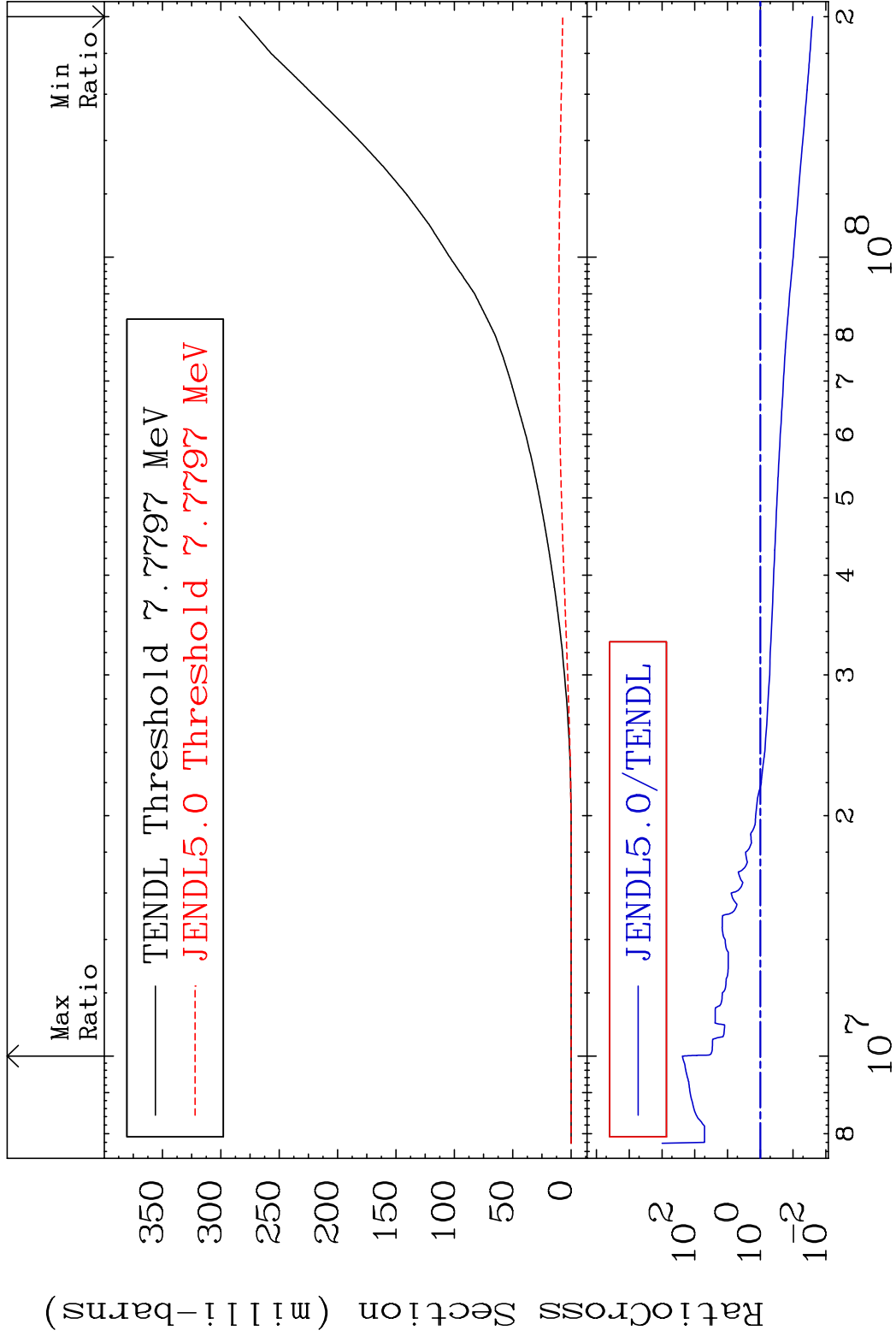
33-As-73

MAT 3319

He-3 Production

33-As-73

Cross Section -97.46 To 9999. %



56

Incident Energy (eV)

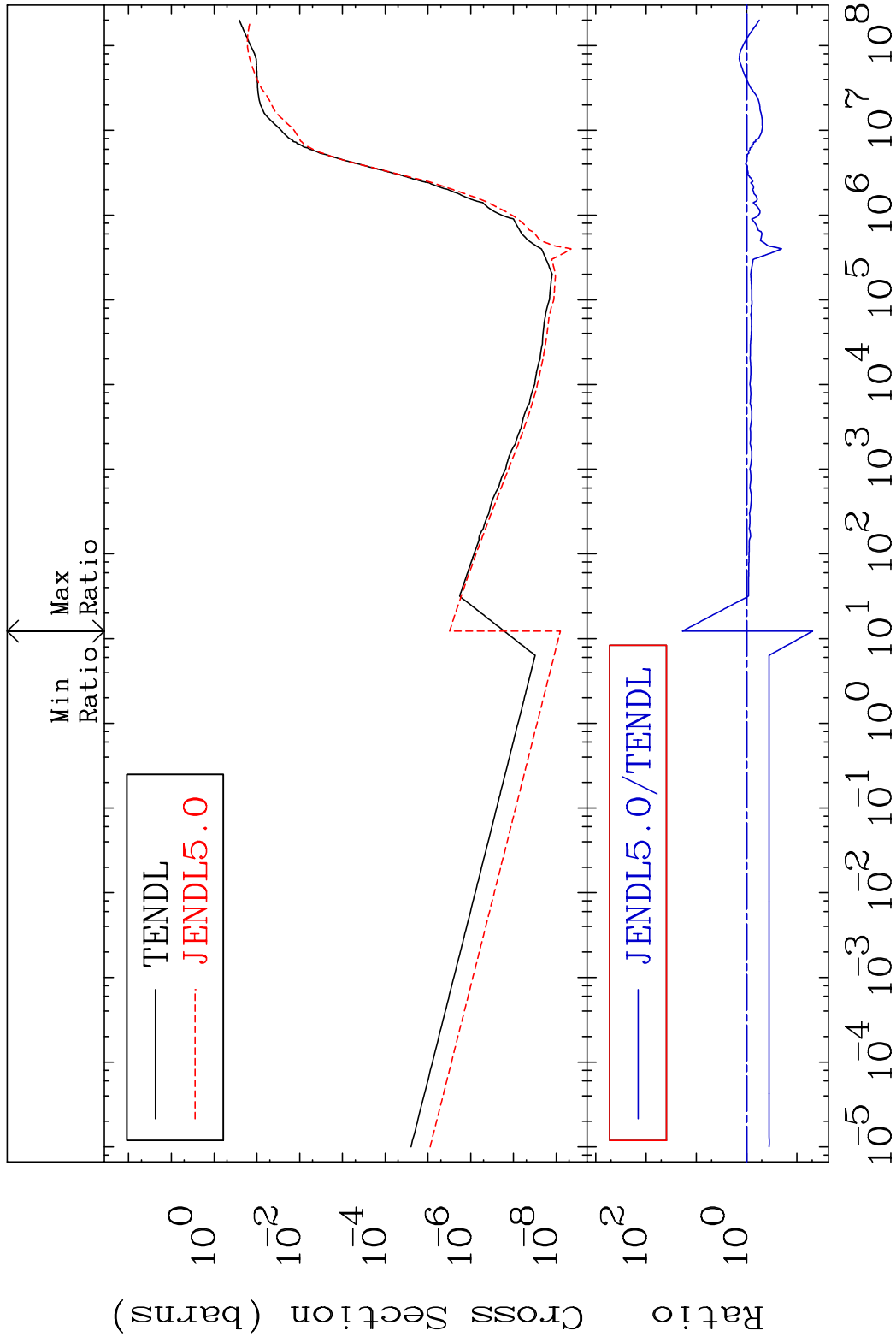
33-As-73

MAT 3319

He-4 Production

33-As-73

Cross Section -95.11 To 1797. %

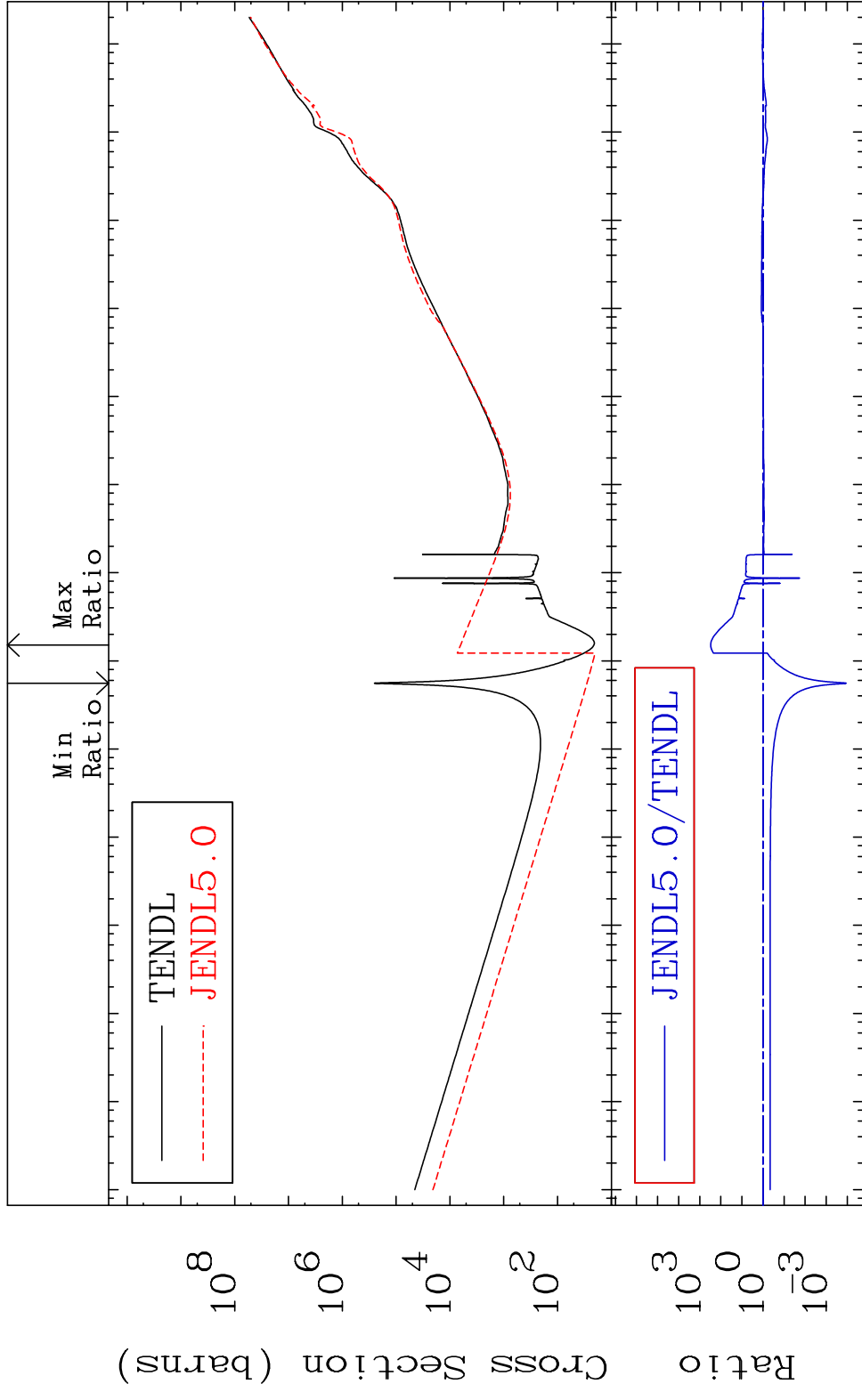


57

Incident Energy (eV)

33-As-73

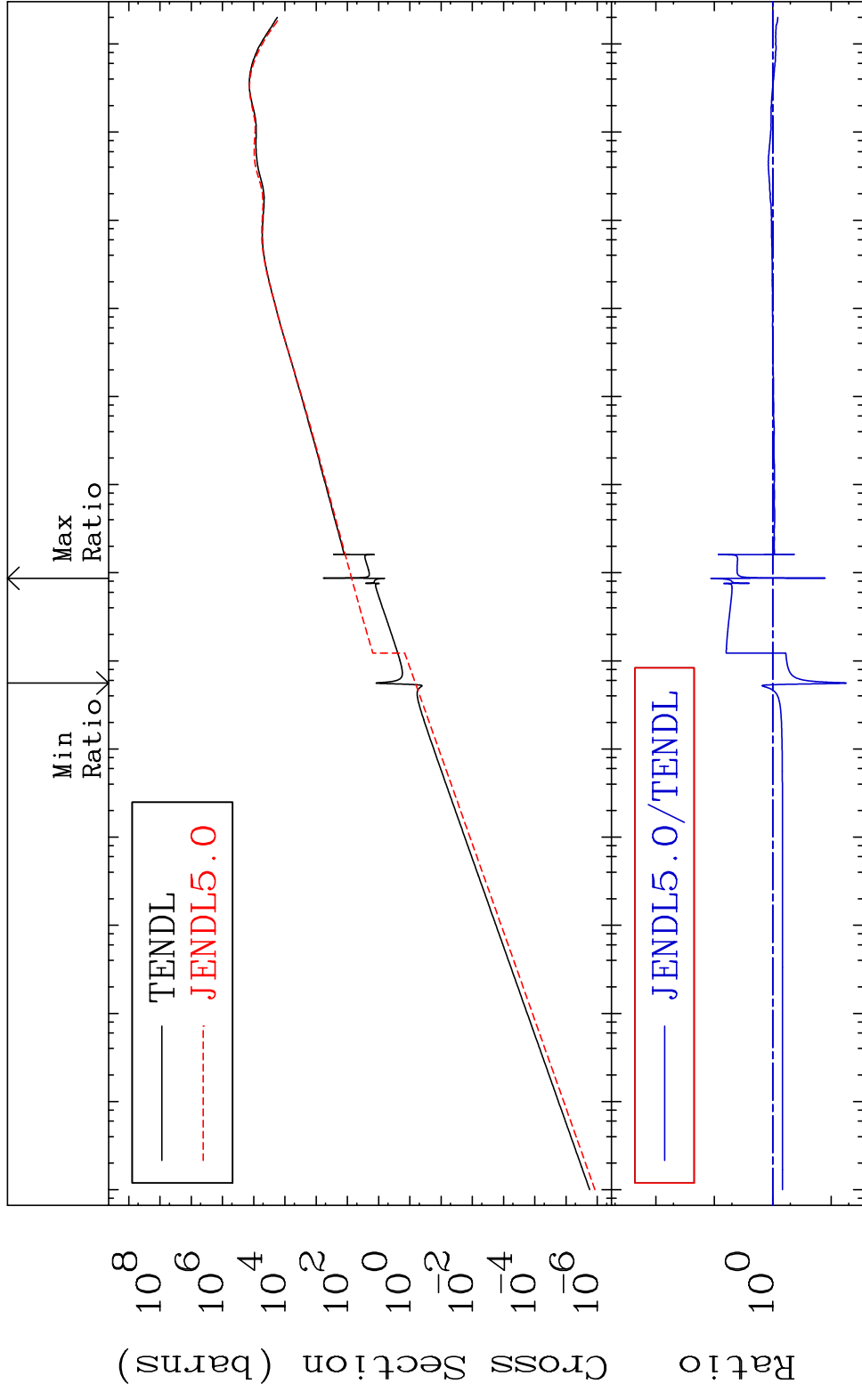
MAT 3319 Kerma total (eV-barns) 33-As-73
 Cross Section -99.99 To 9999. %



MAT 3319

Kerma elastic
Cross Section -94.51 To 1053. %

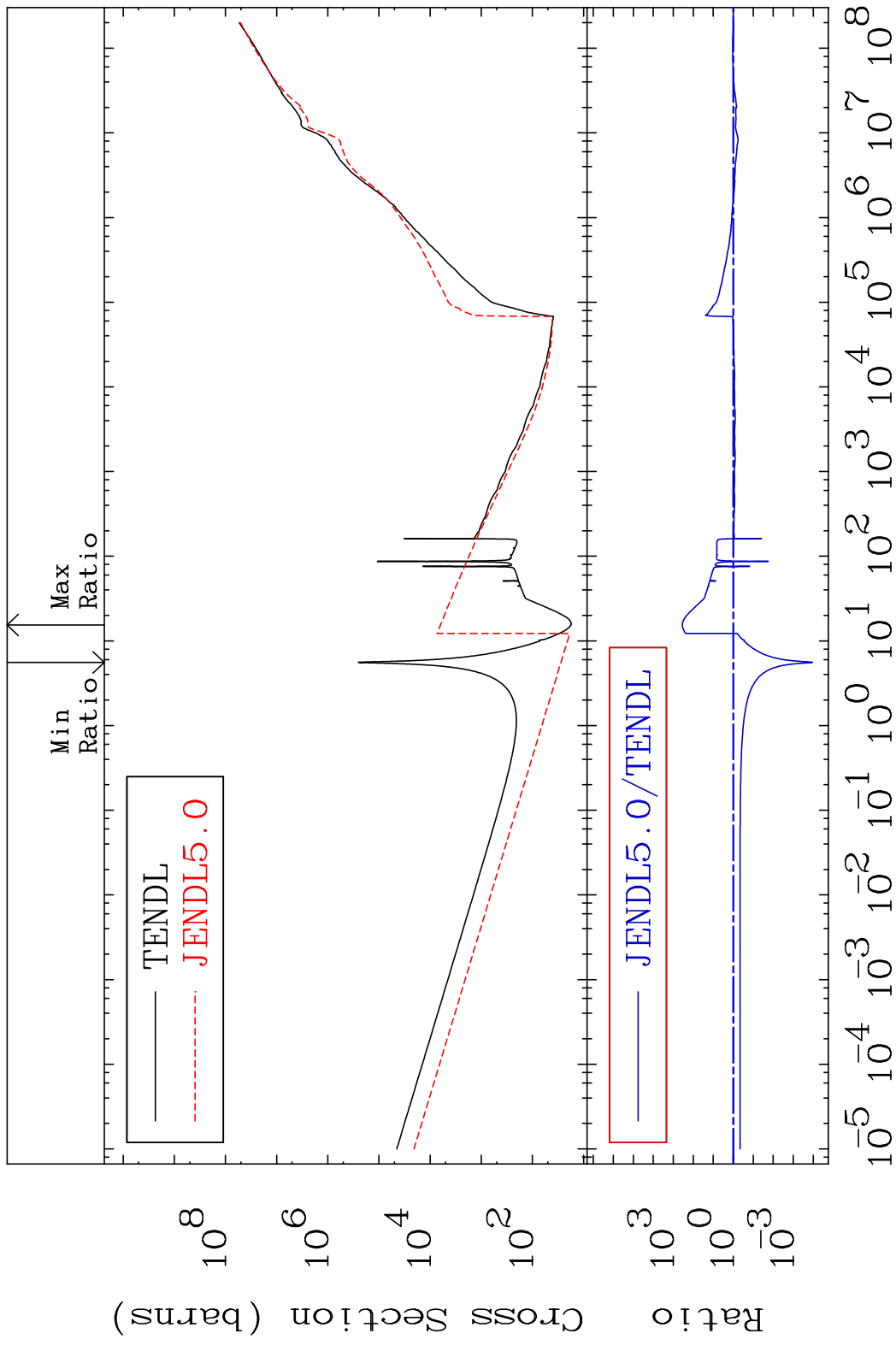
33-As-73



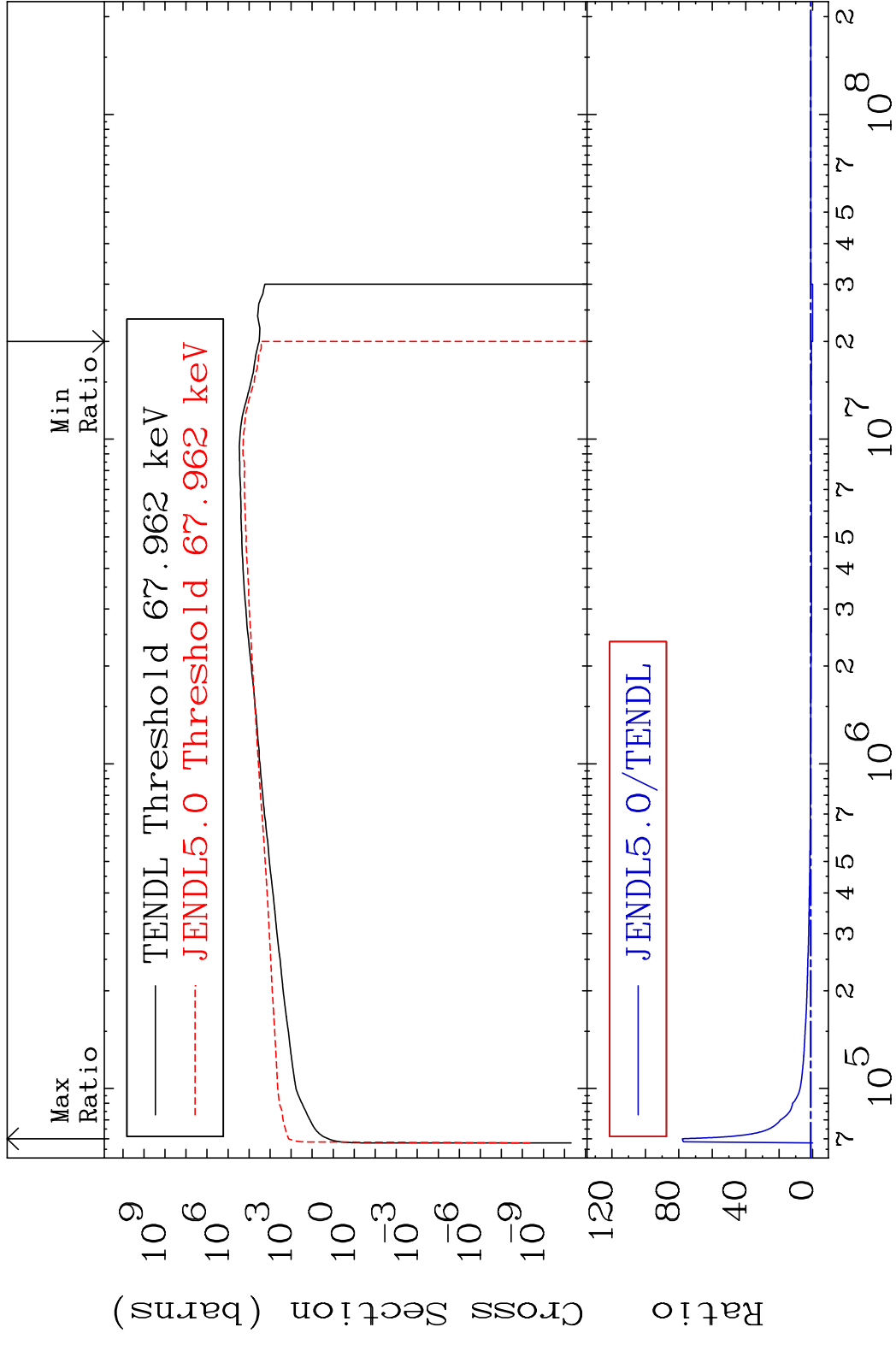
Cross Section (barns)
Ratio

10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸
Incident Energy (eV)

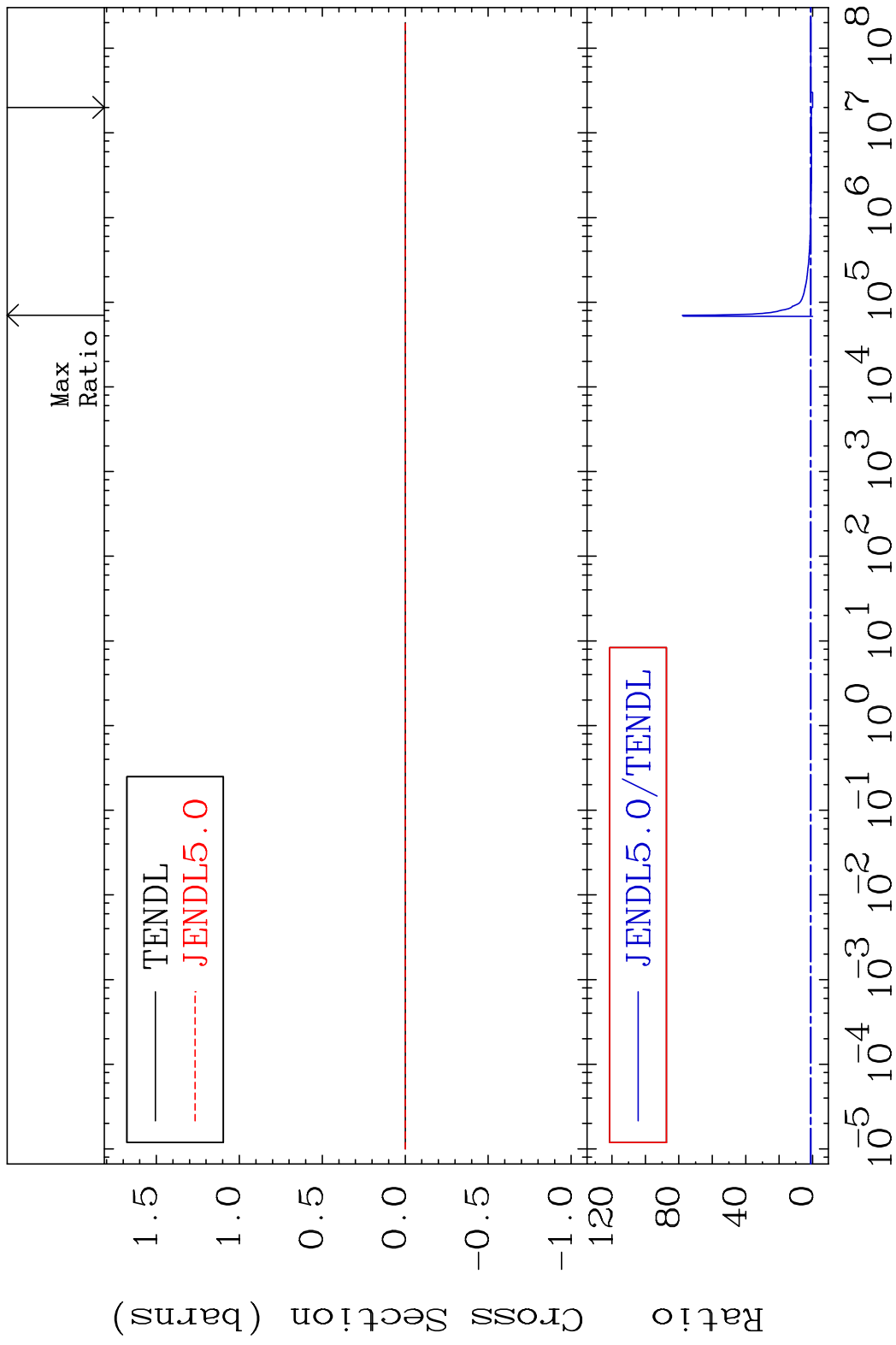
MAT 3319 Kerma non-elastic (all but mt2) 33-As-73
 Cross Section -99.99 To 9999. %



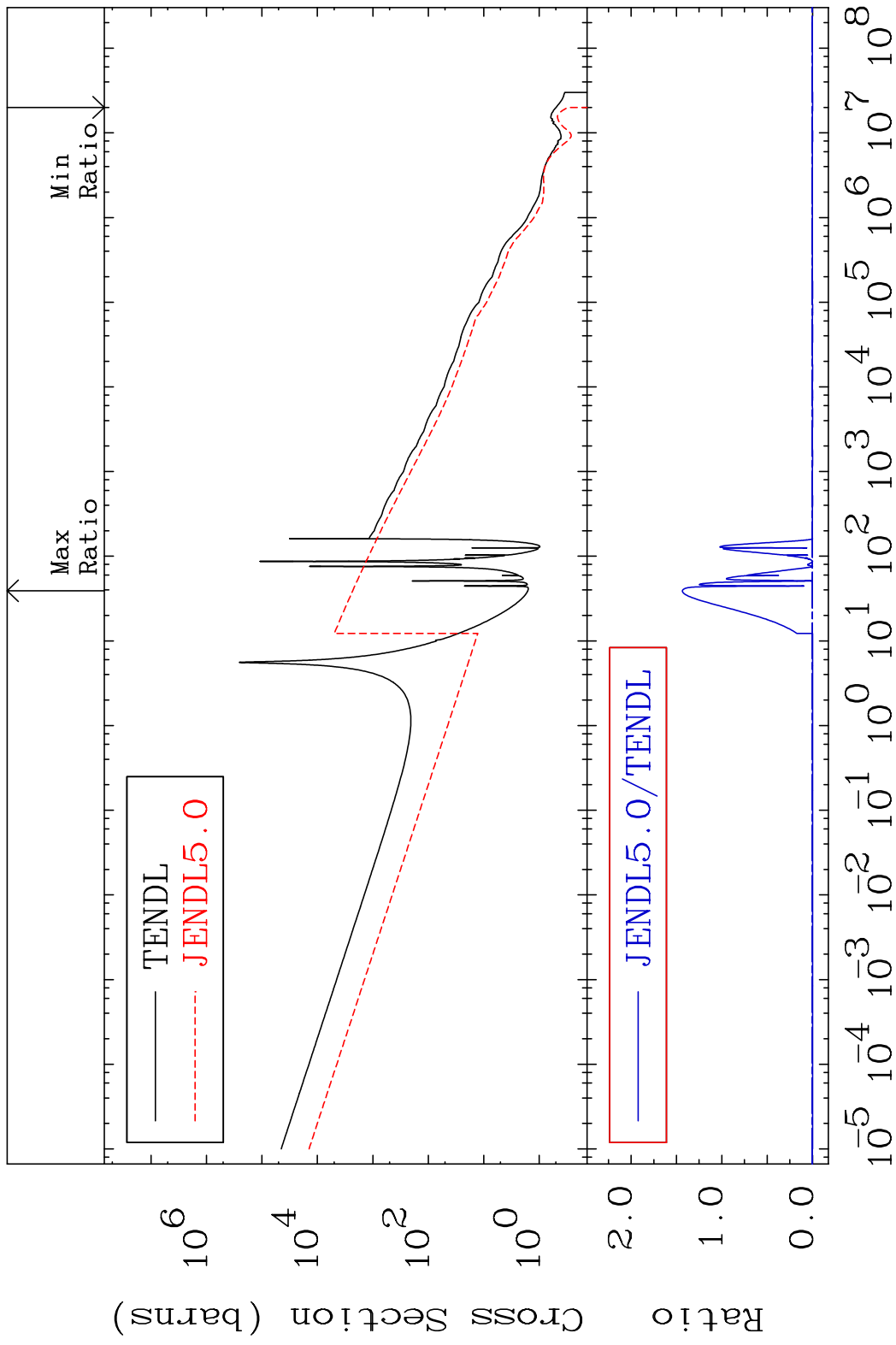
MAT 3319 Kerma inelastic (mt51-91) 33-As-73
 Cross Section -100.0 To 7687. %



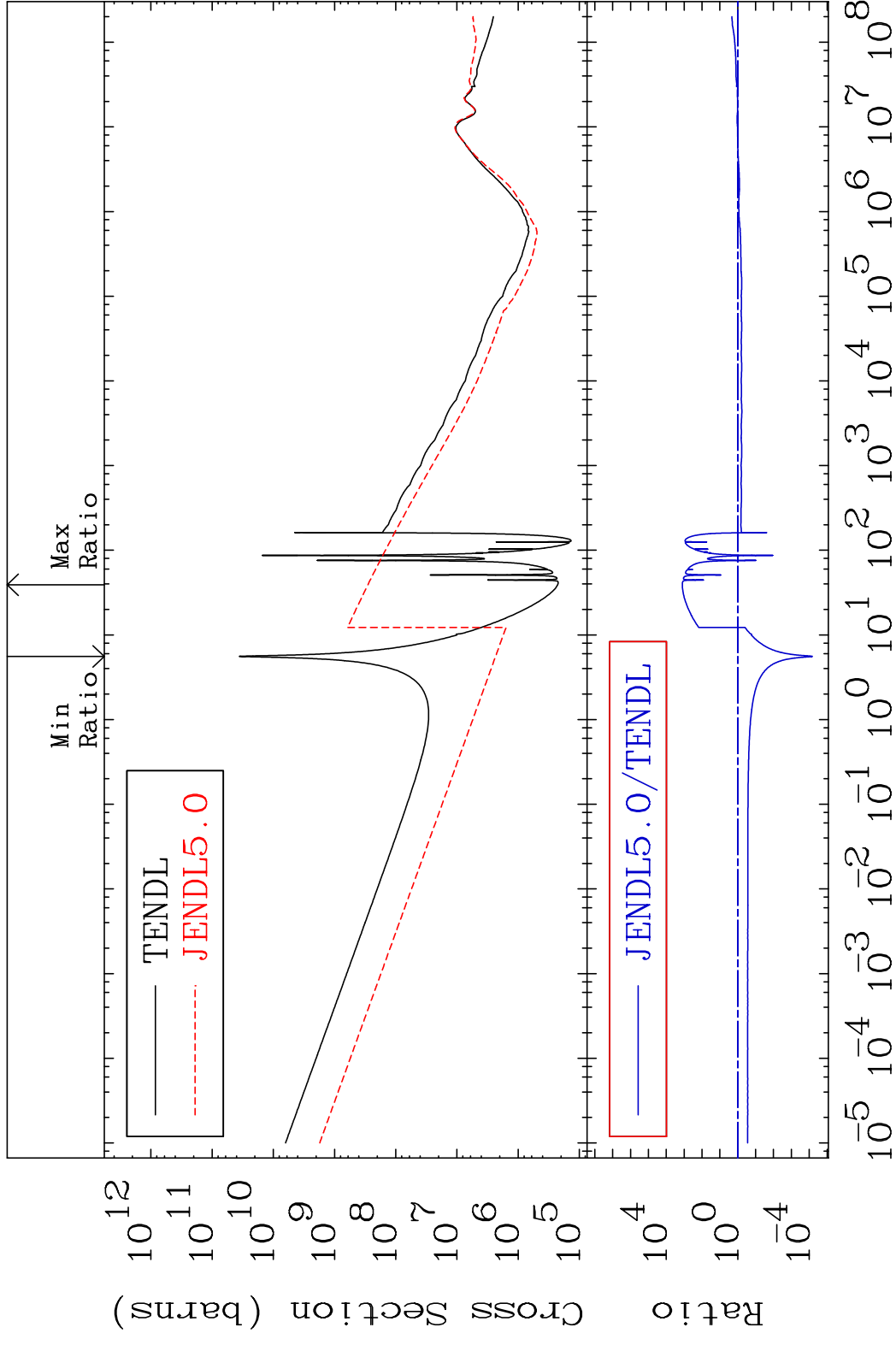
MAT 3319 Kerma fission (mt18 or mt19-20-21-38) 33-As-73
 Cross Section -100.0 To 7687. %



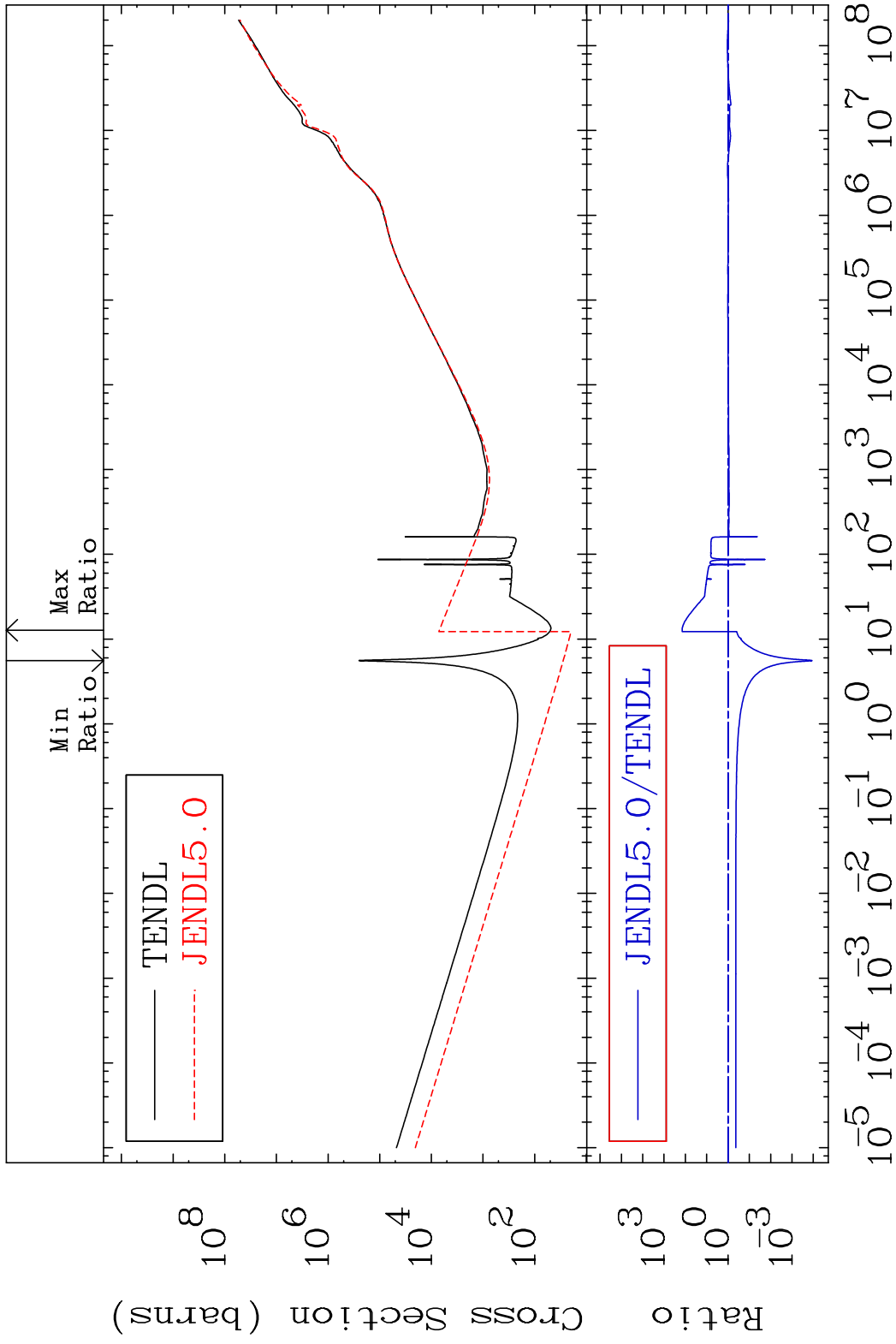
MAT 3319 Kerma capture (mt102) 33-As-73
 Cross Section -100.0 To 9999. %



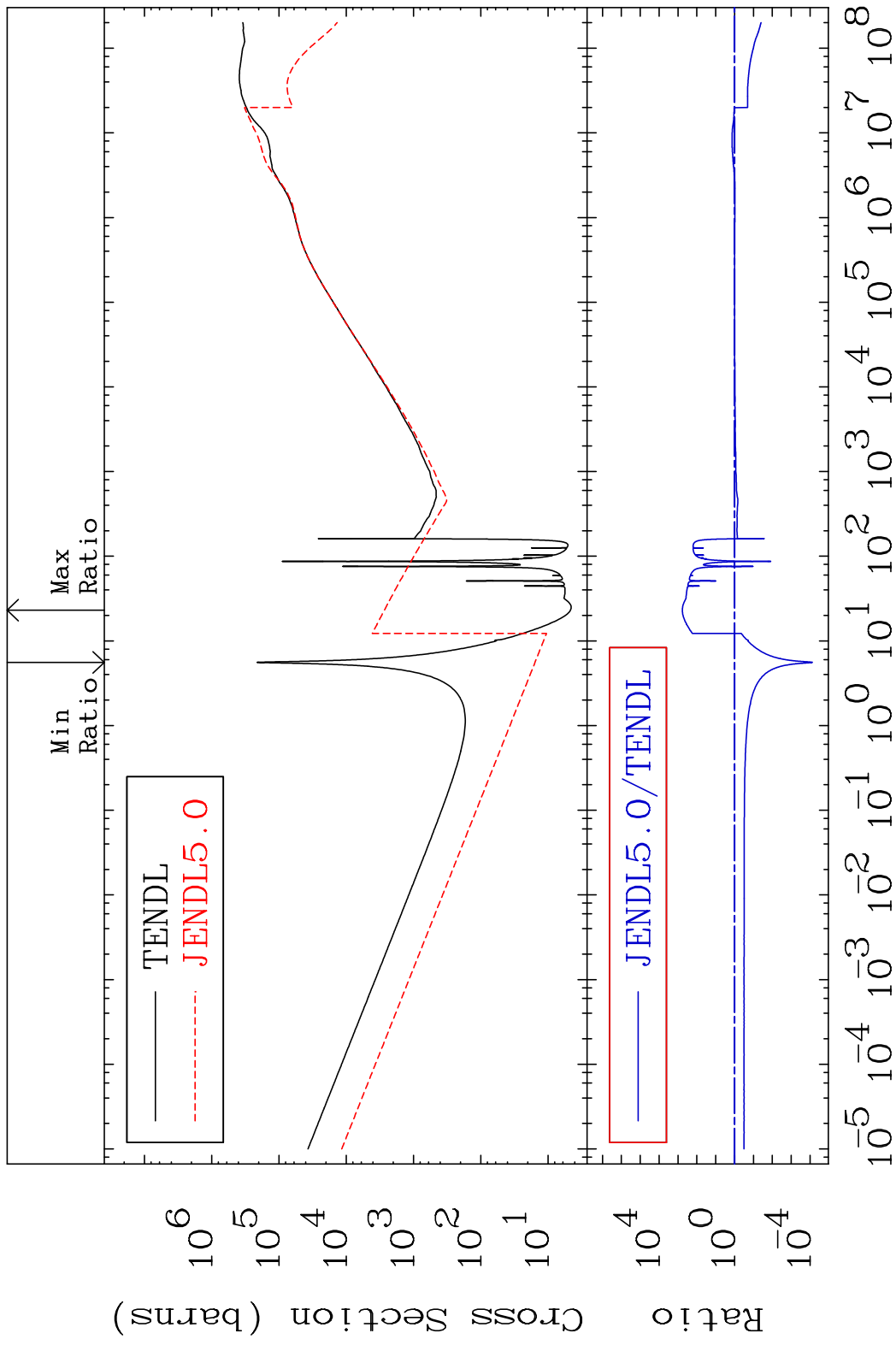
63 Incident Energy (eV) 33-As-73



MAT 3319 Total kinematic kerma (high limit) 33-As-73
 Cross Section -99.99 To 9999. %



MAT 3319 Dpa total (eV-barns) 33-As-73
 Cross Section -99.99 To 9999. %

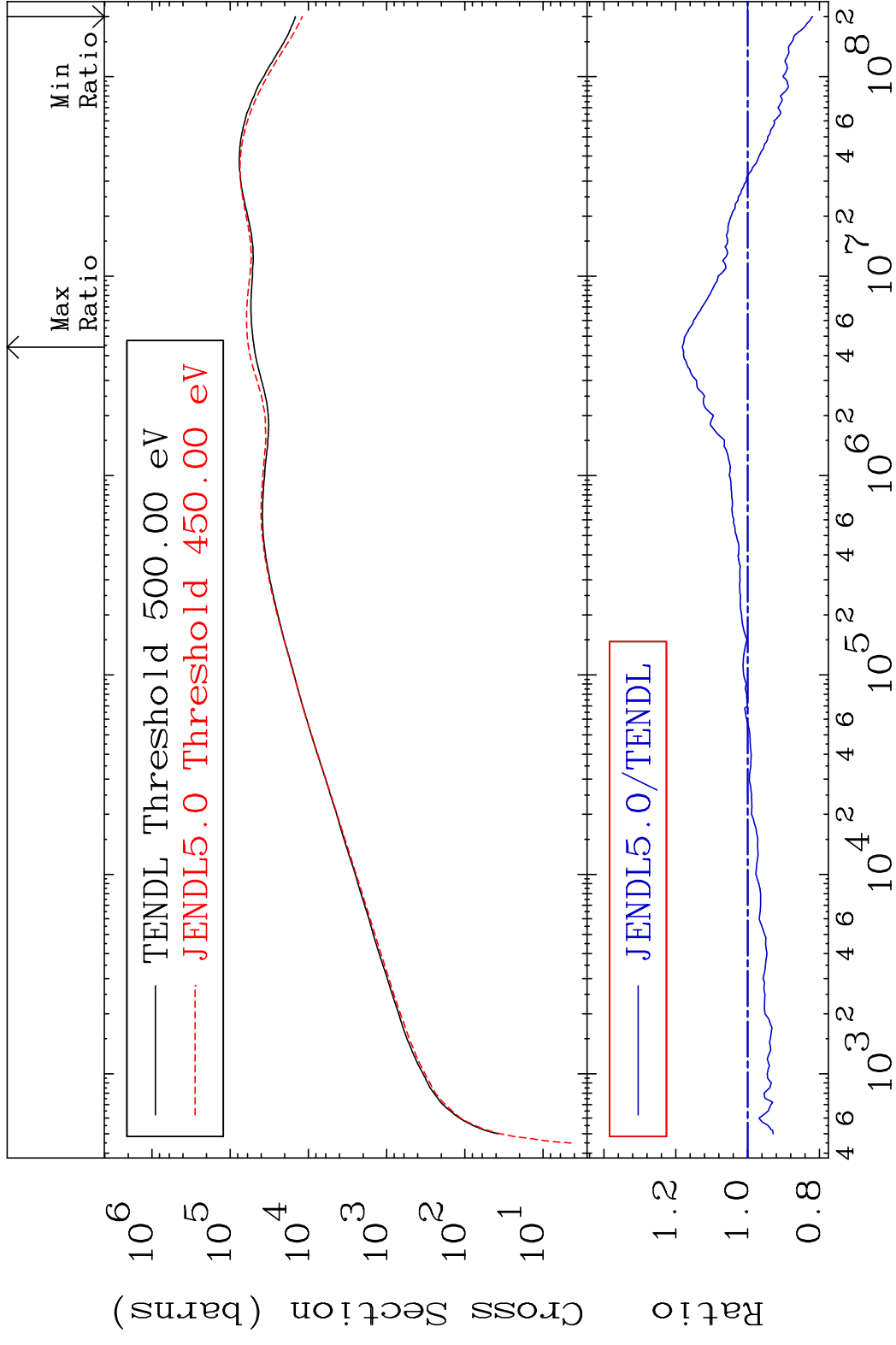


MAT 3319

Dpa elastic (mt2)

33-As-73

Cross Section -18.05 To 18.19 %

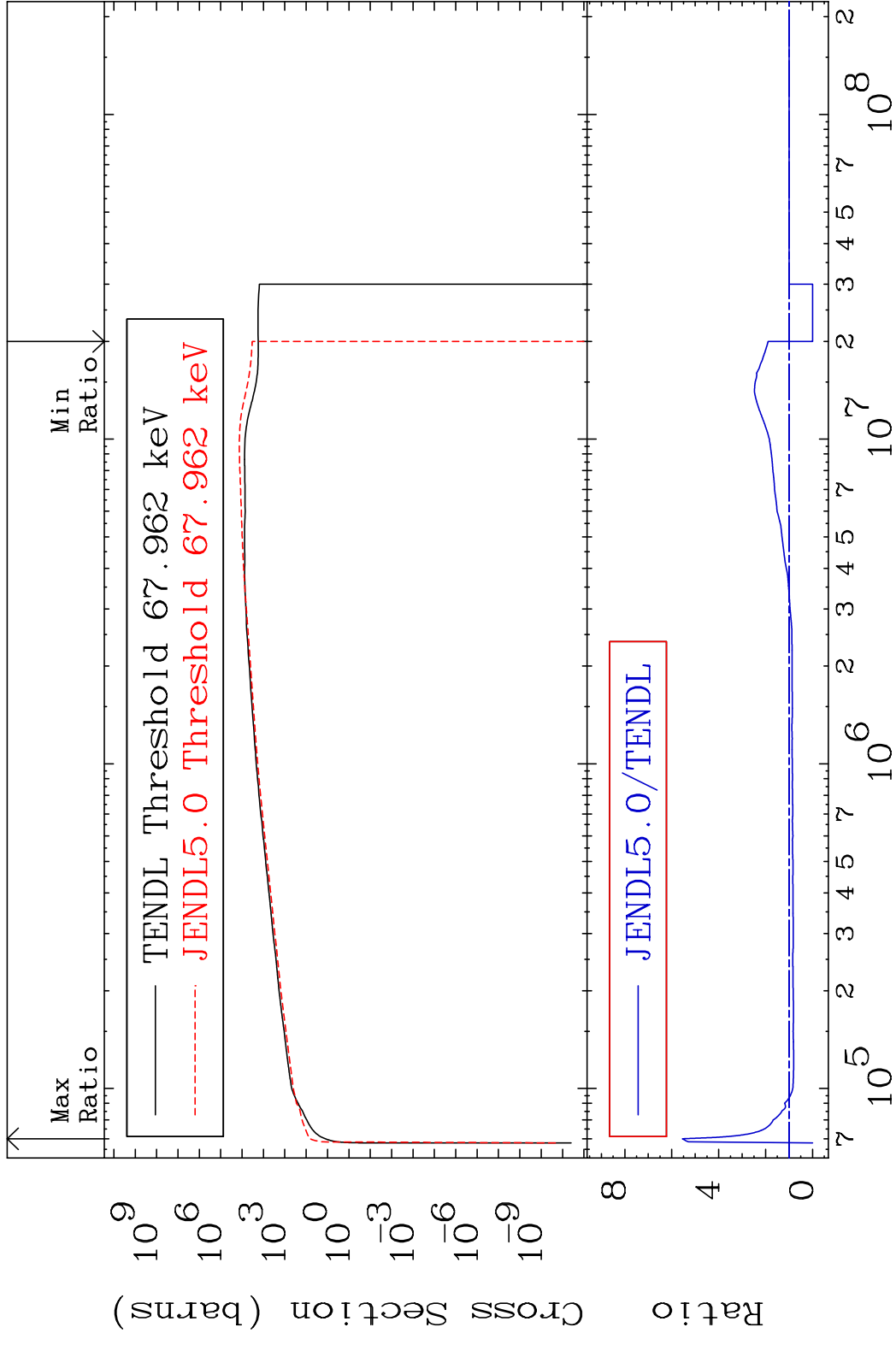


67

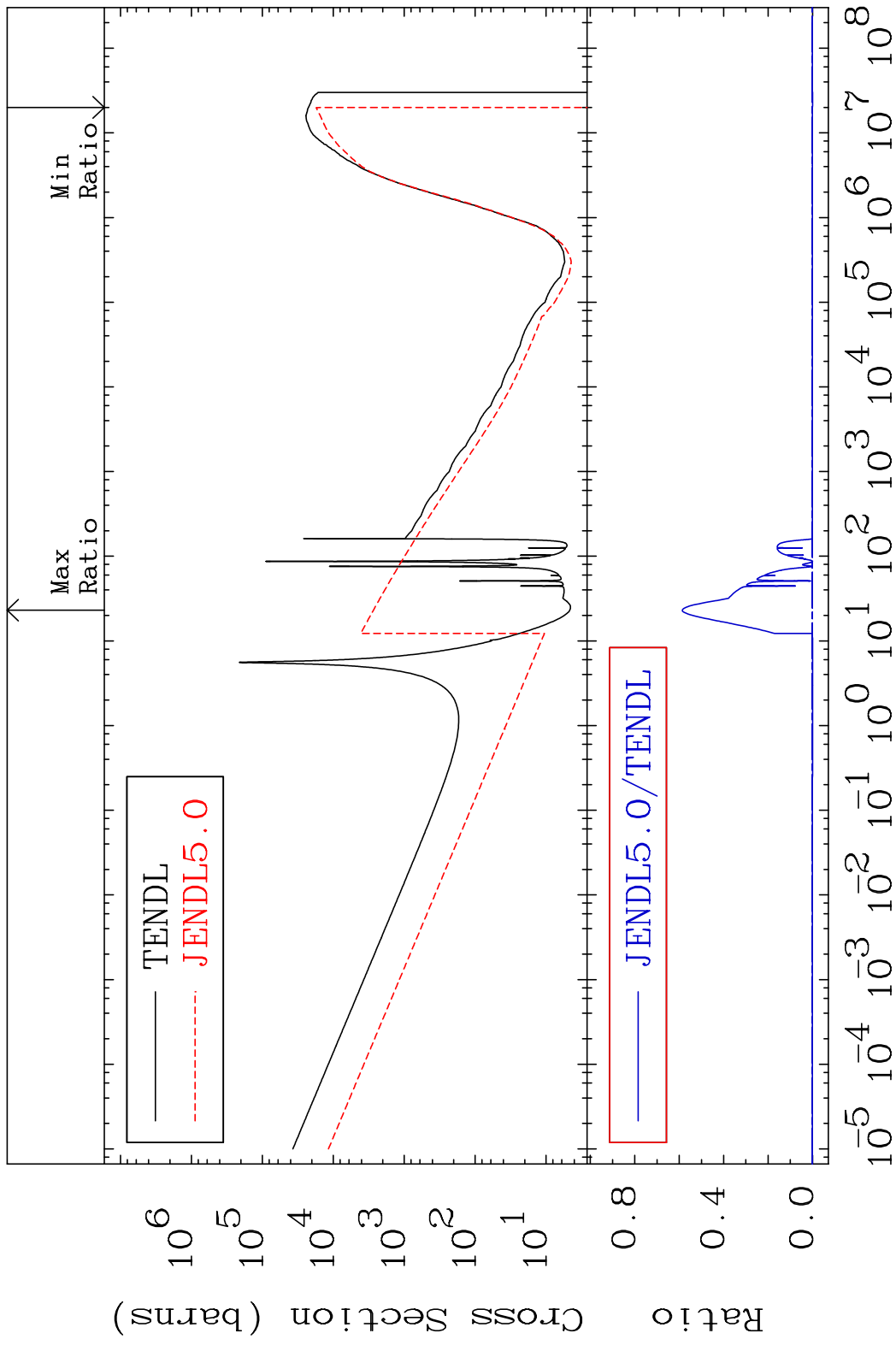
Incident Energy (eV)

33-As-73

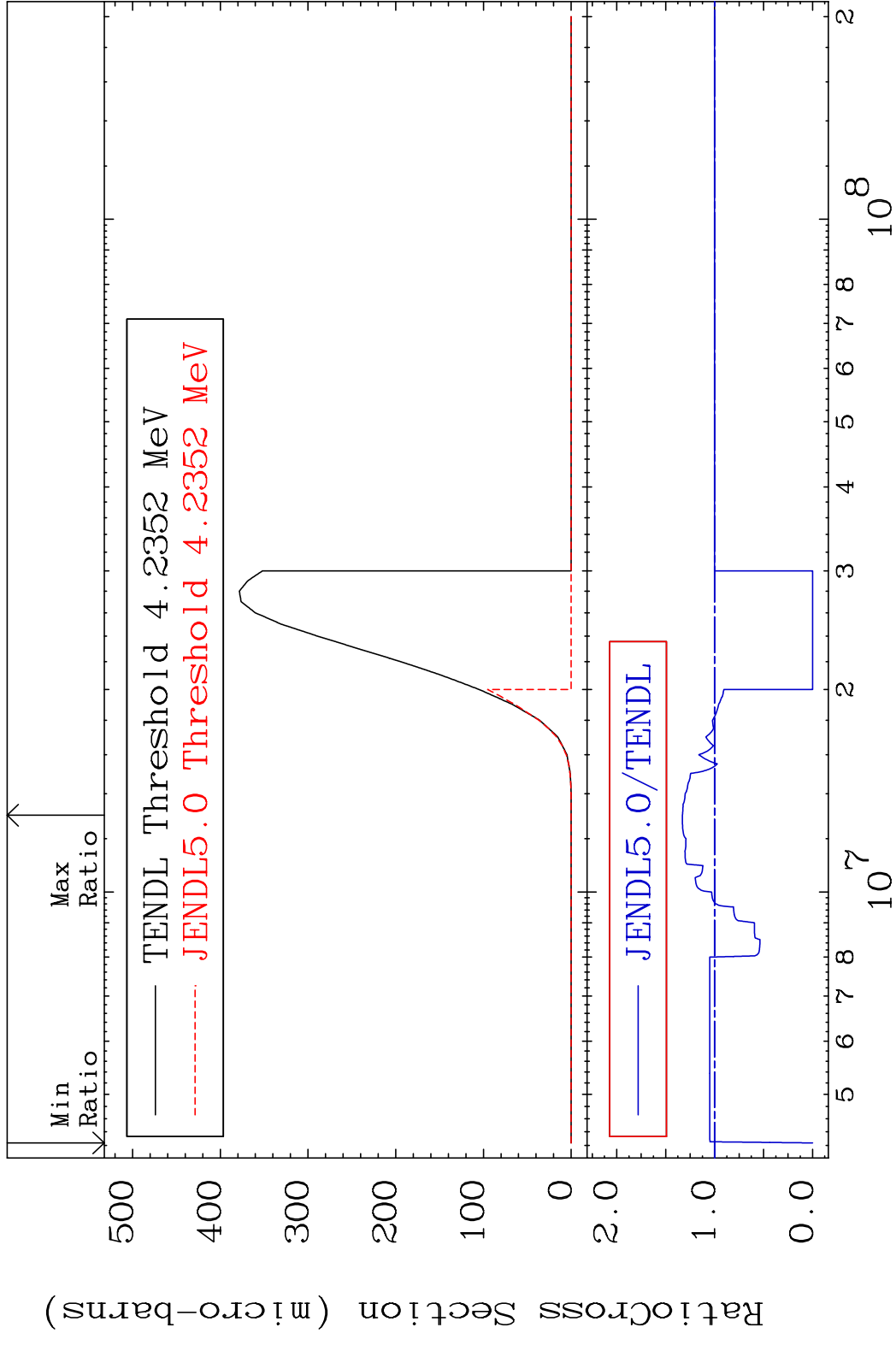
MAT 3319 Dpa inelastic (mt51-91) 33-As-73
 Cross Section -100.0 To 454.8 %



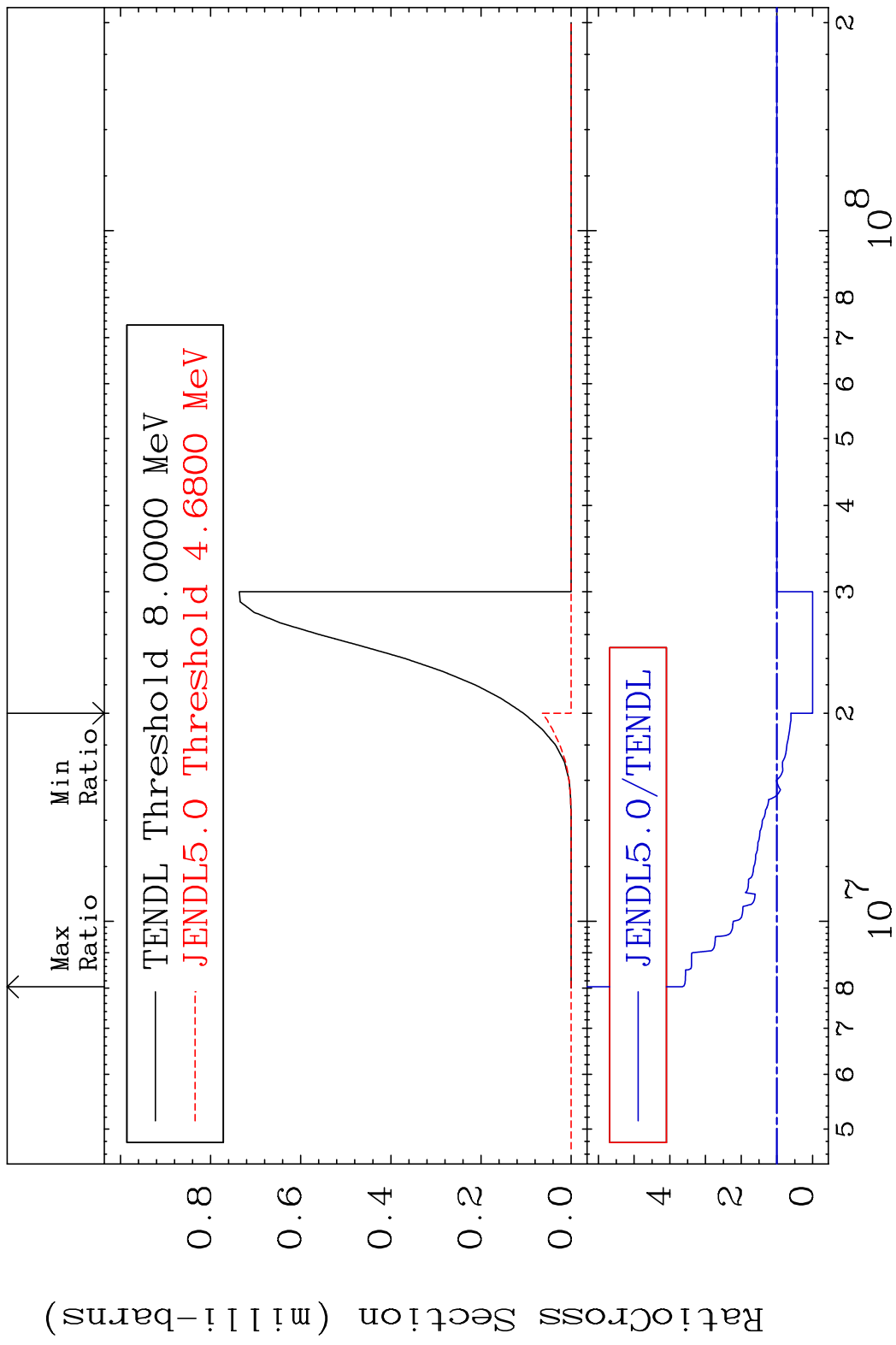
MAT 3319 Dpa disappearance (mt102 -120) 33-As-73
 Cross Section -100.0 To 9999. %



MAT 3319 (n, p) α :30-Zn-69g 33-As-73
 Radionuclide Production Cross Section 180.01 dth 32.95 %

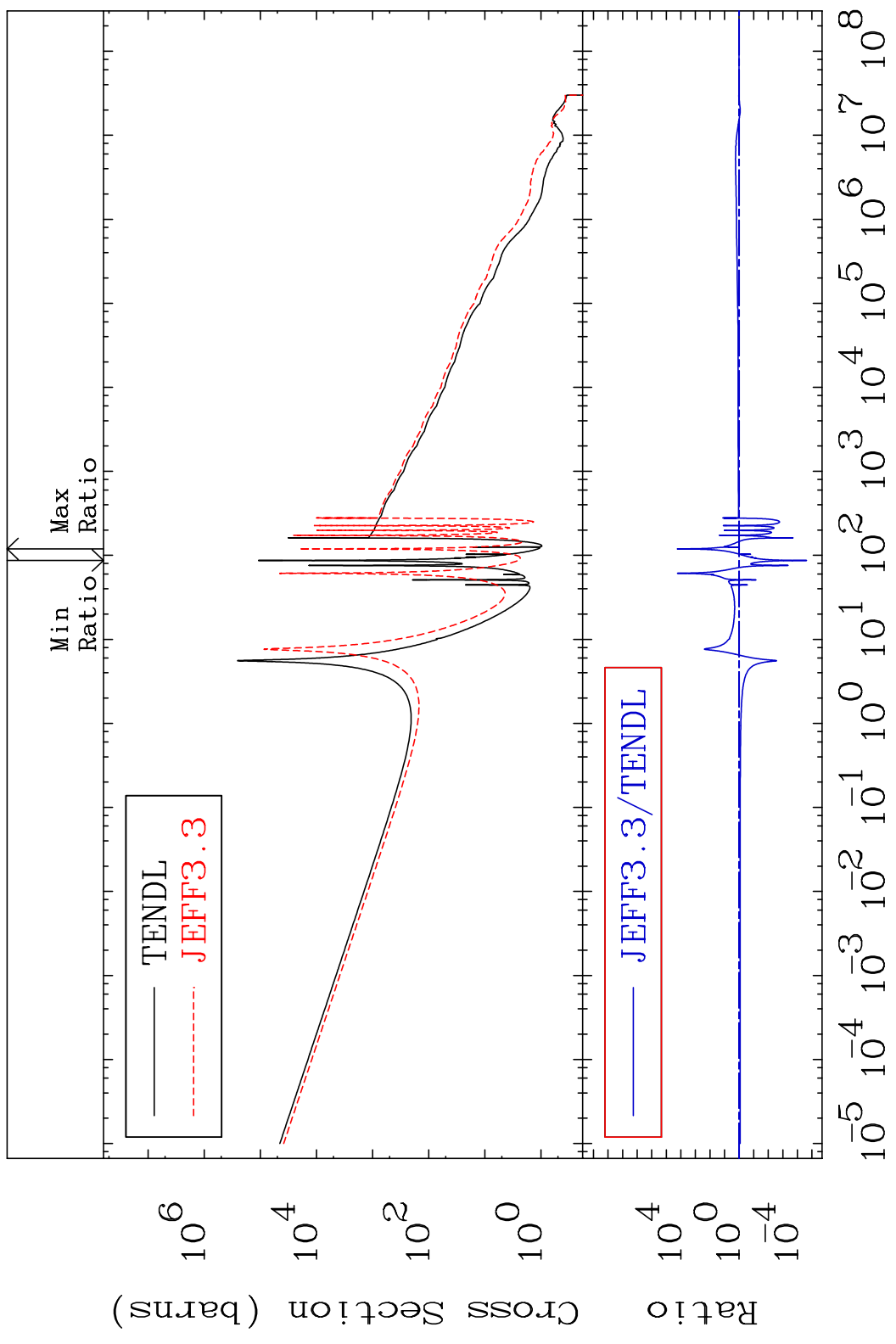


70 Incident Energy (eV) 33-As-73



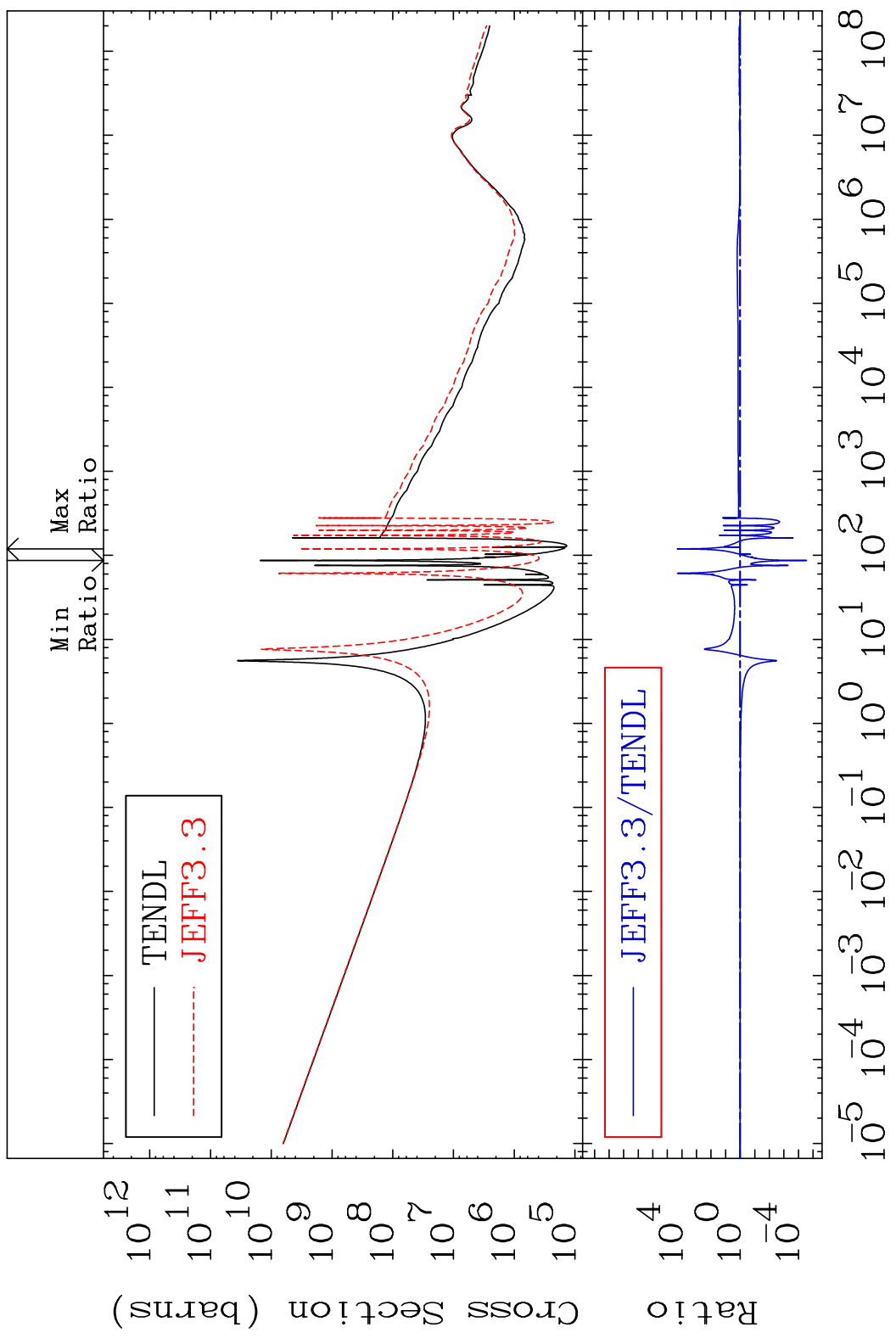
MAT 3319

Kerma capture (mt102) 33-As-73
Cross Section -100.0 To 9999. %



MAT 3319

Total photon (eV-barns) 33-As-73
Cross Section -100.0 To 9999. %

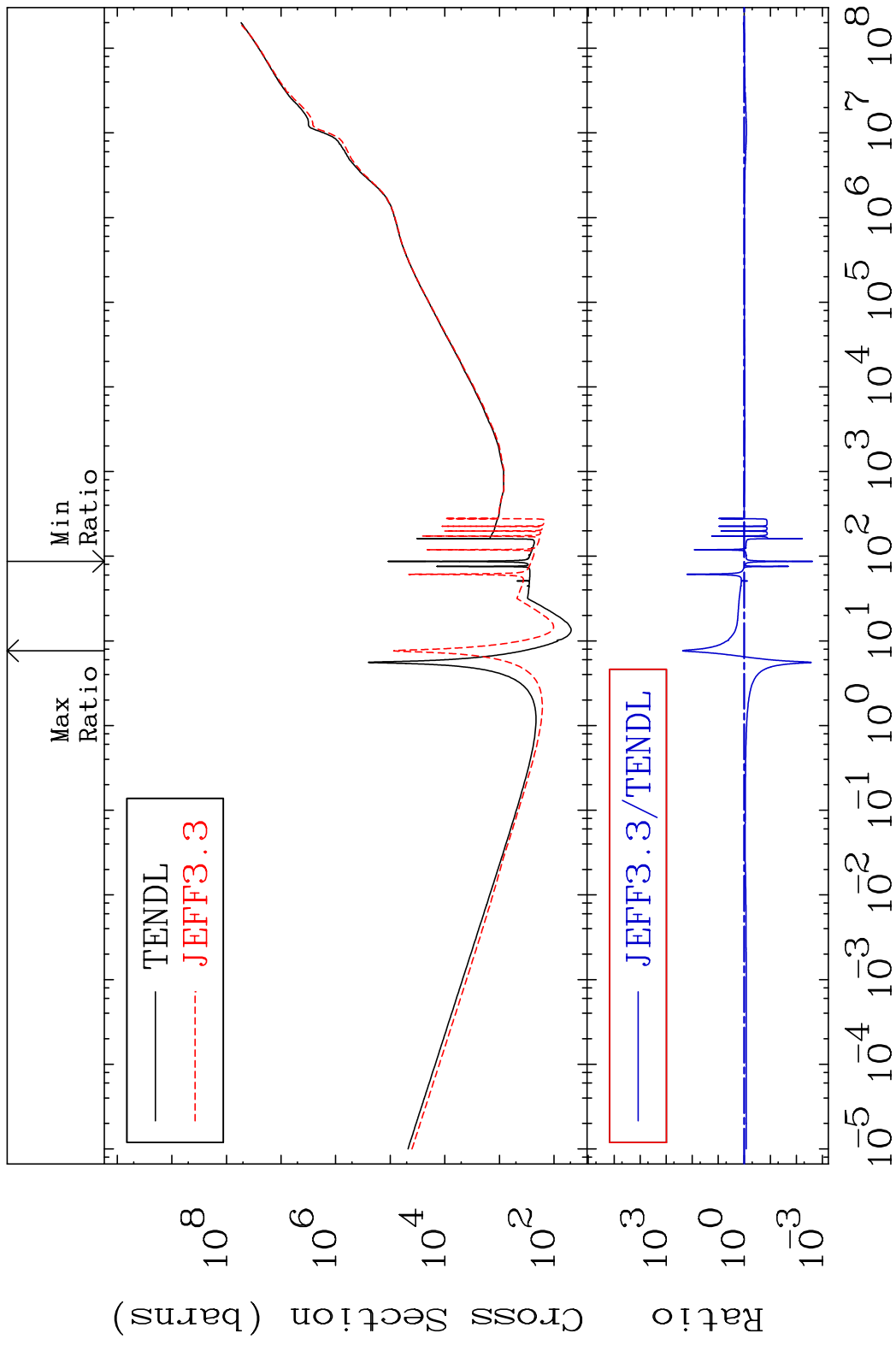


73

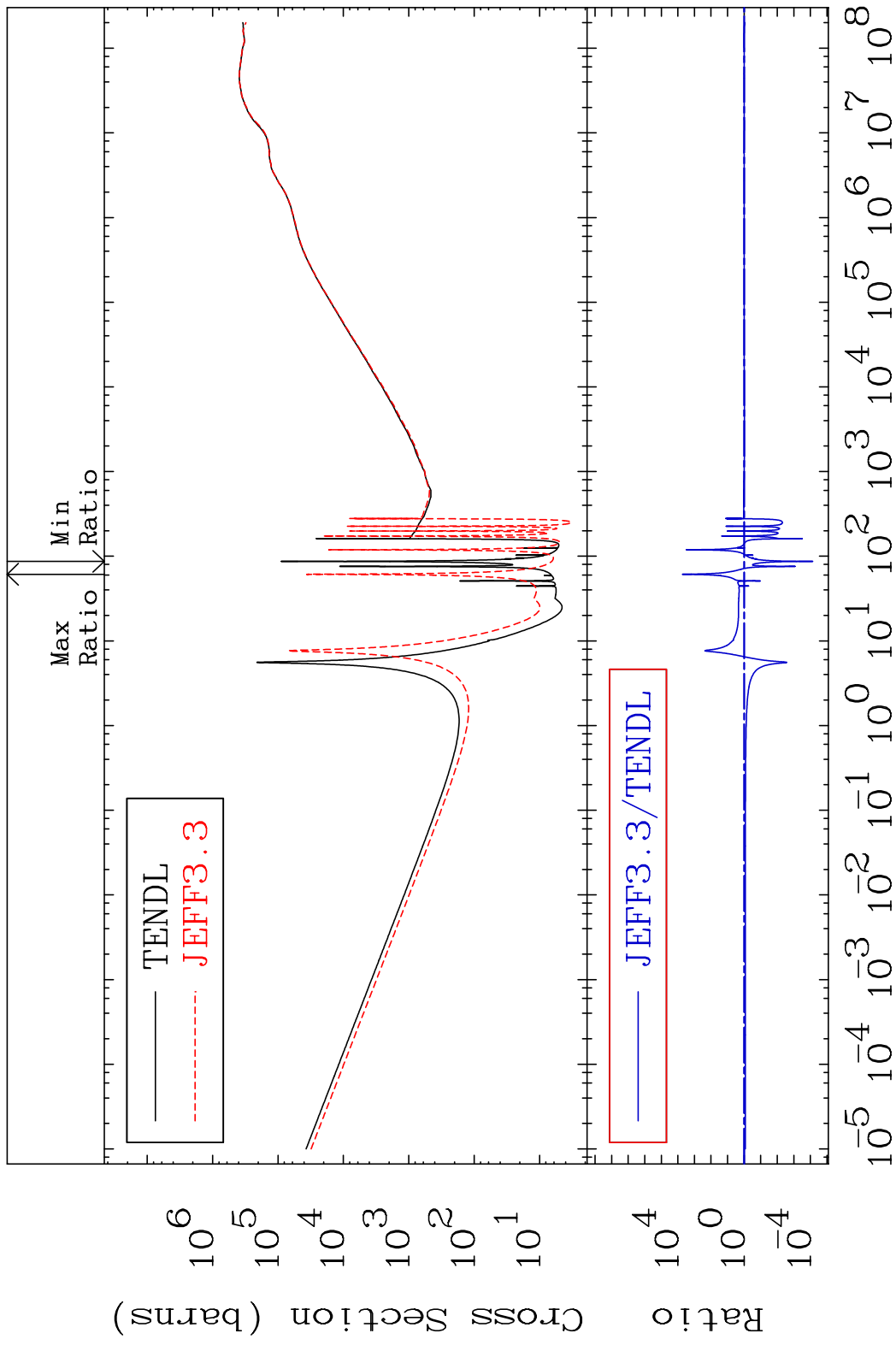
Incident Energy (eV)

33-As-73

MAT 3319 Total kinematic kerma (high limit) 33-As-73
 Cross Section -99.76 To 9999. %



MAT 3319 Dpa total (eV-barns) 33-As-73
 Cross Section -99.99 To 9999.9 %



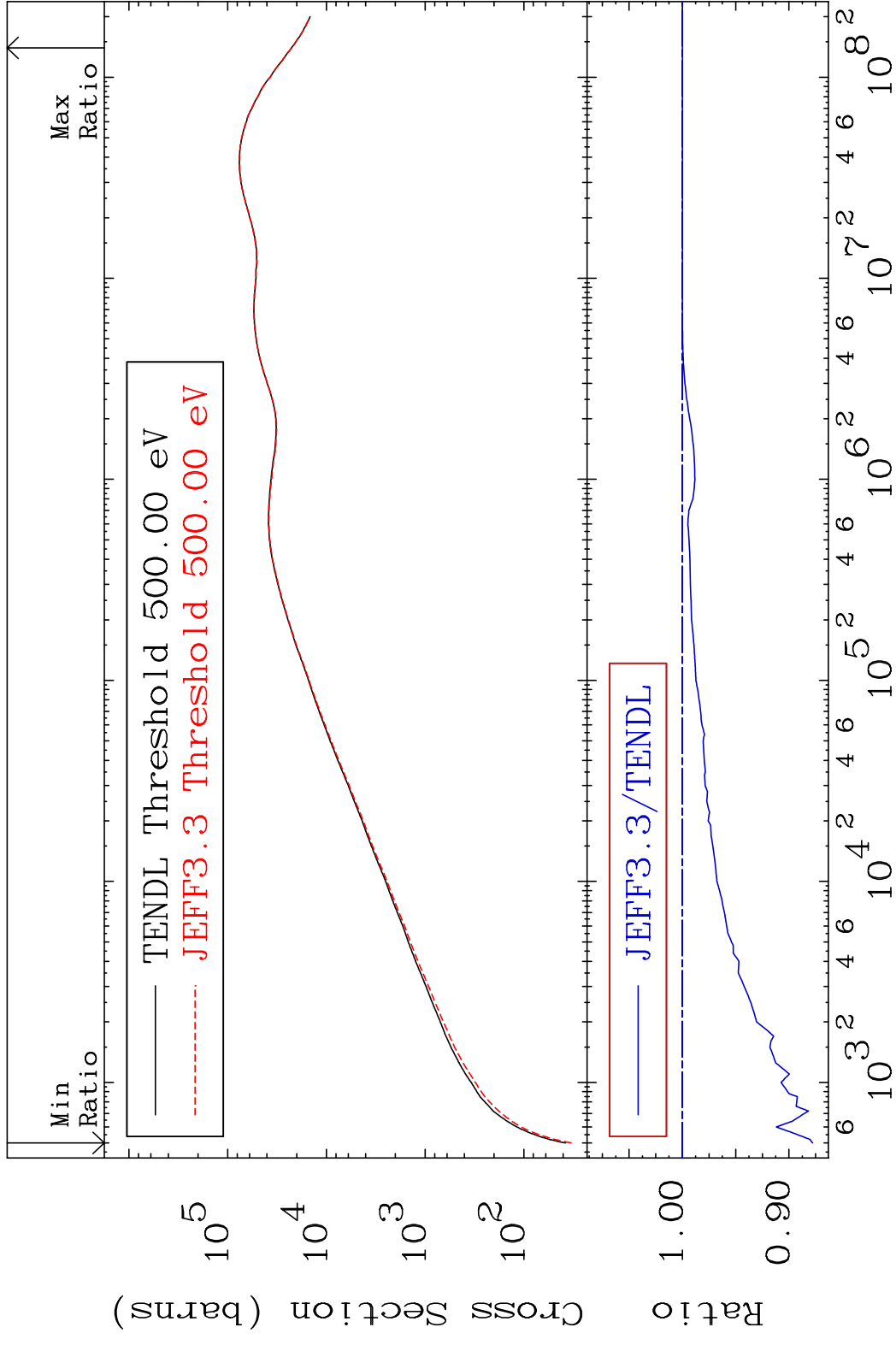
75 Incident Energy (eV) 33-As-73

MAT 3319

Dpa elastic (mt2)

33-As-73

Cross Section -12.21 To 0.002 %

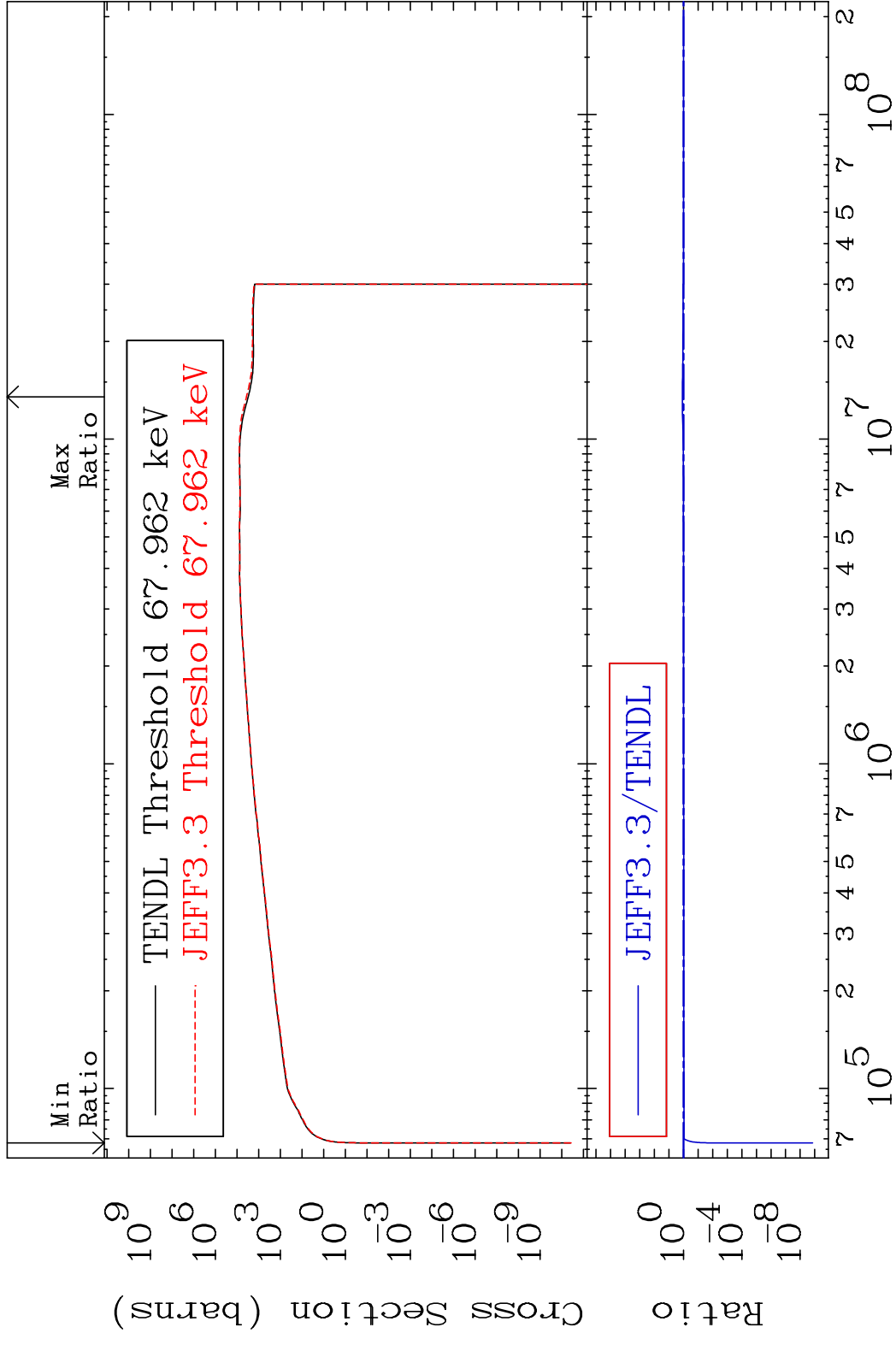


76

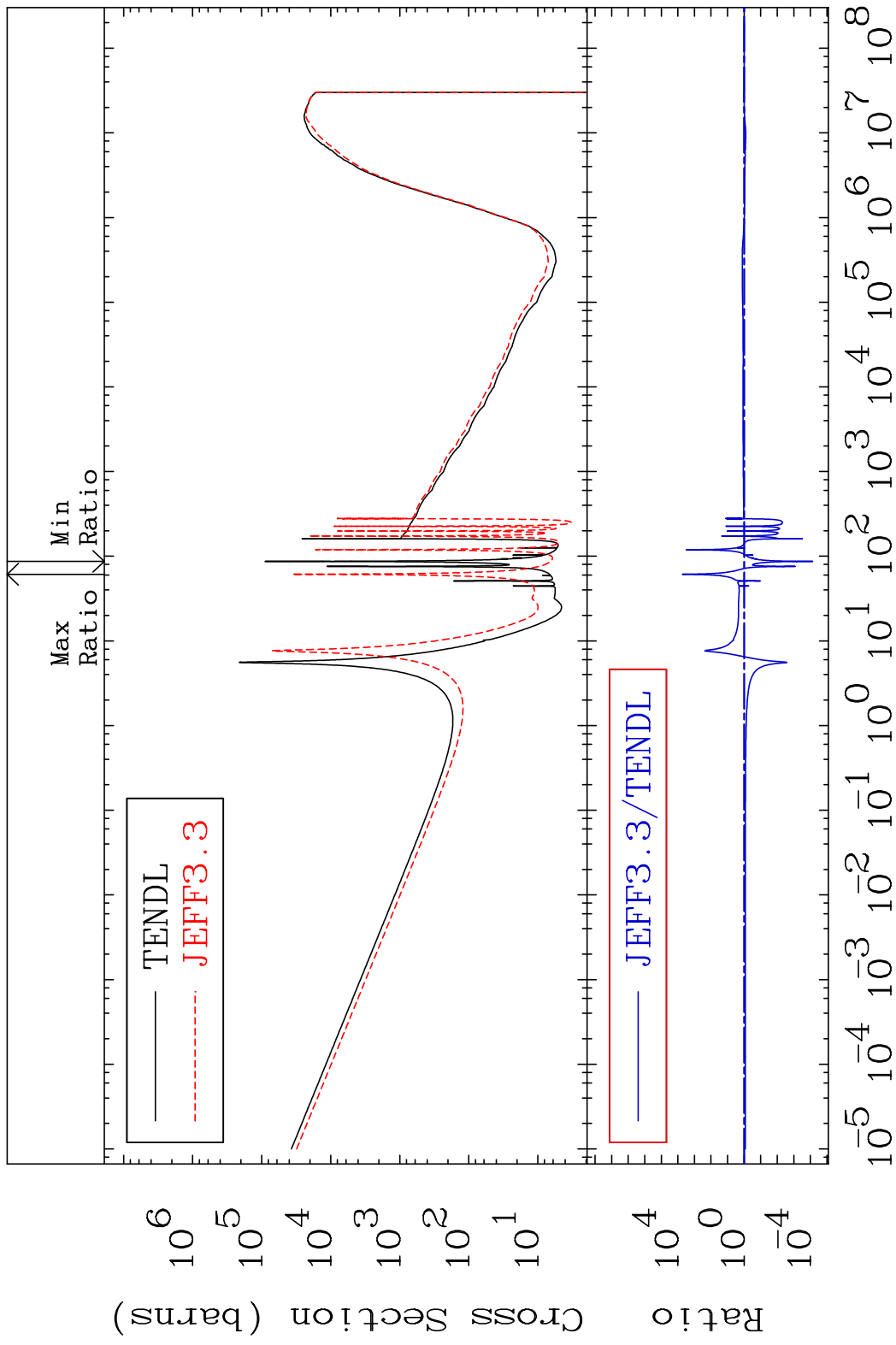
Incident Energy (eV)

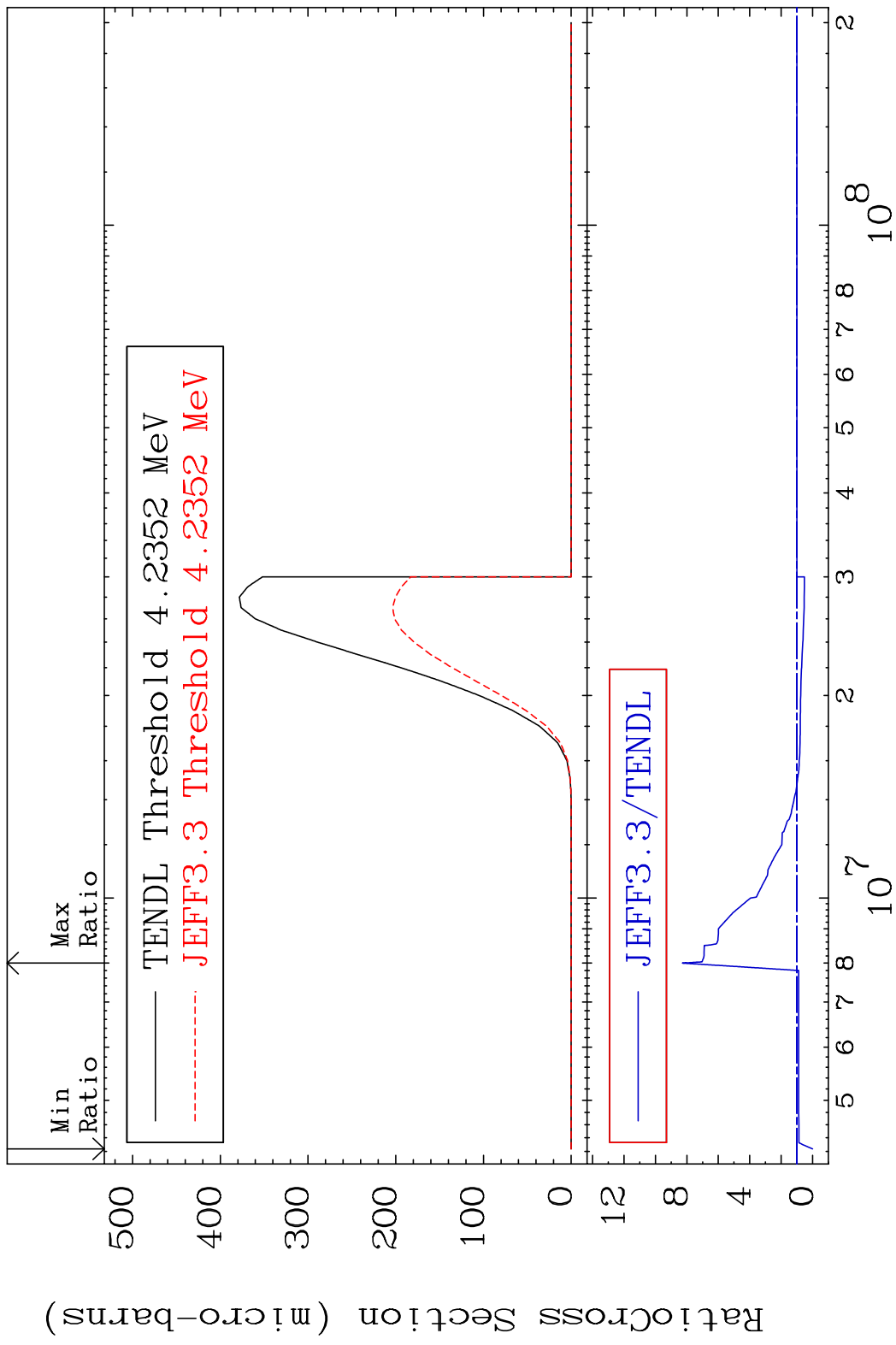
33-As-73

MAT 3319 Dpa inelastic (mt51-91) 33-As-73
 Cross Section -100.0 To 20.30 %



MAT 3319 Dpa disappearance (mt102 -120) 33-As-73
 Cross Section -99.99 To 9999. %





MAT 3319 (n,p) α :30-Zn-69m1 33-As-73
 Radionuclide Production Cross Section 472.3 %

