

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

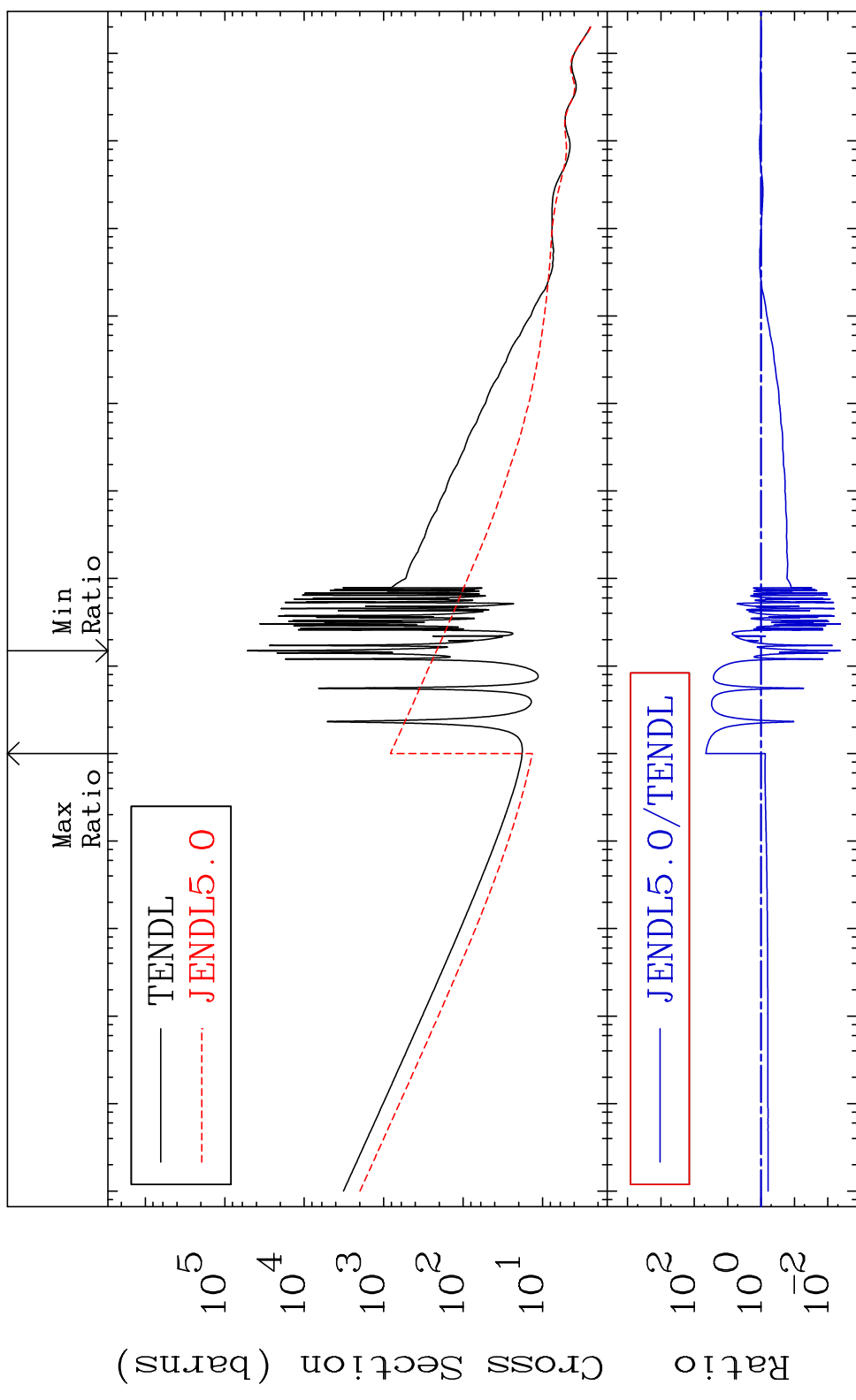
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6719

Total
Cross Section -99.58 To 4441. %

67-Ho-163



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

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

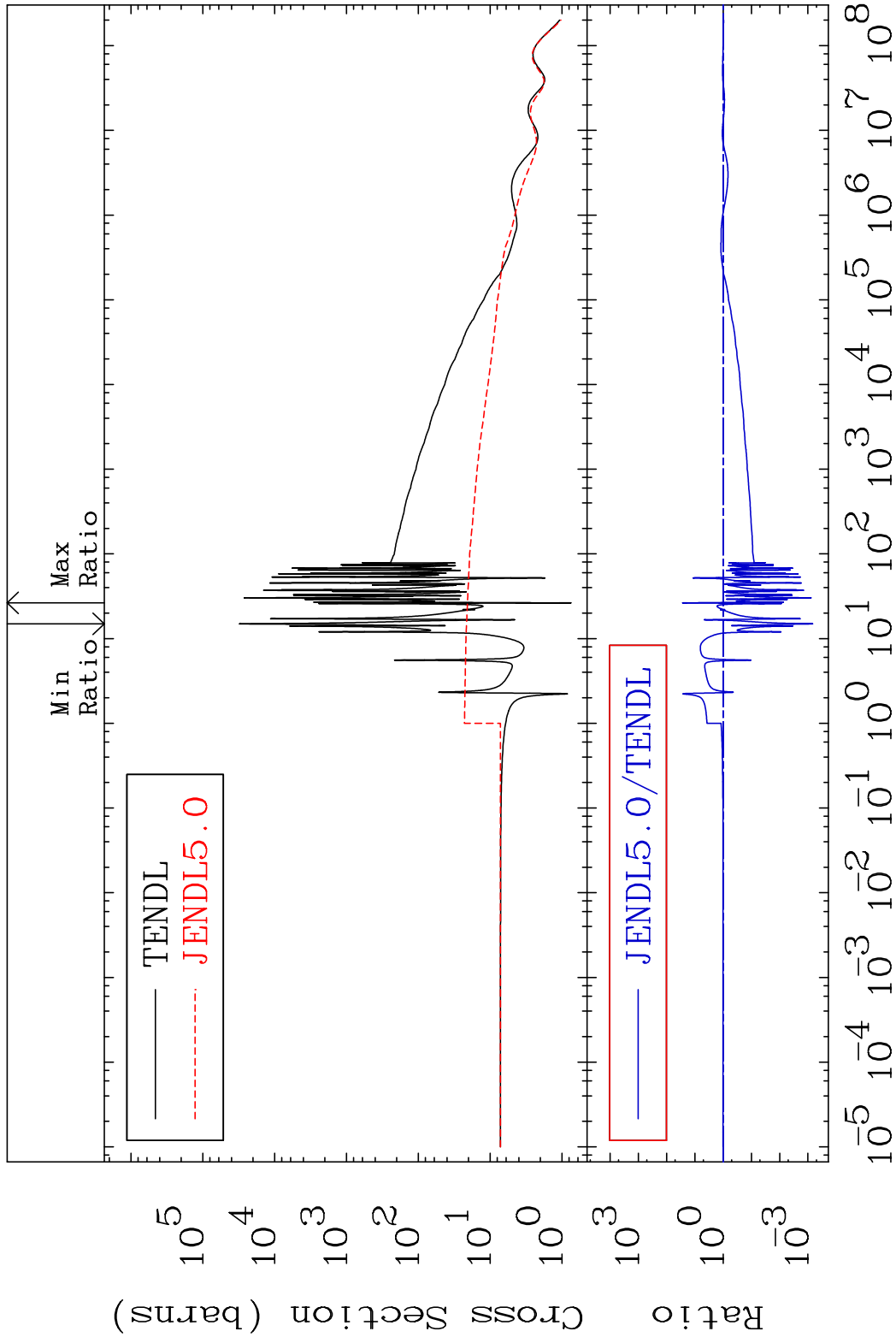
1 Incident Energy (eV) 67-Ho-163

MAT 6719

Elastic

67-Ho-163

Cross Section -99.93 To 2676. %



2

Incident Energy (eV)

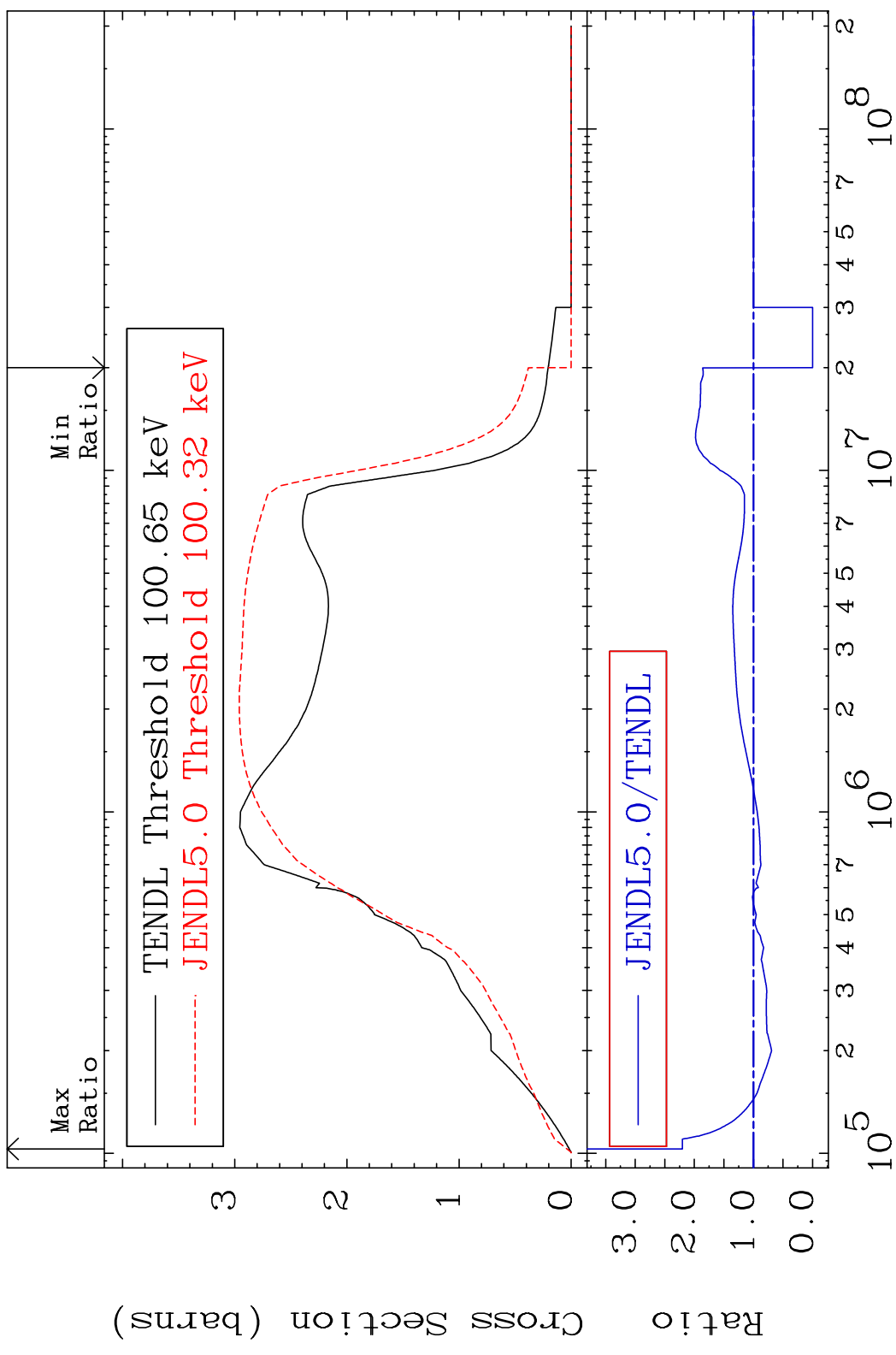
67-Ho-163

MAT 6719

Inelastic

67-Ho-163

Cross Section -100.0 To 120.3 %



3

Incident Energy (eV)

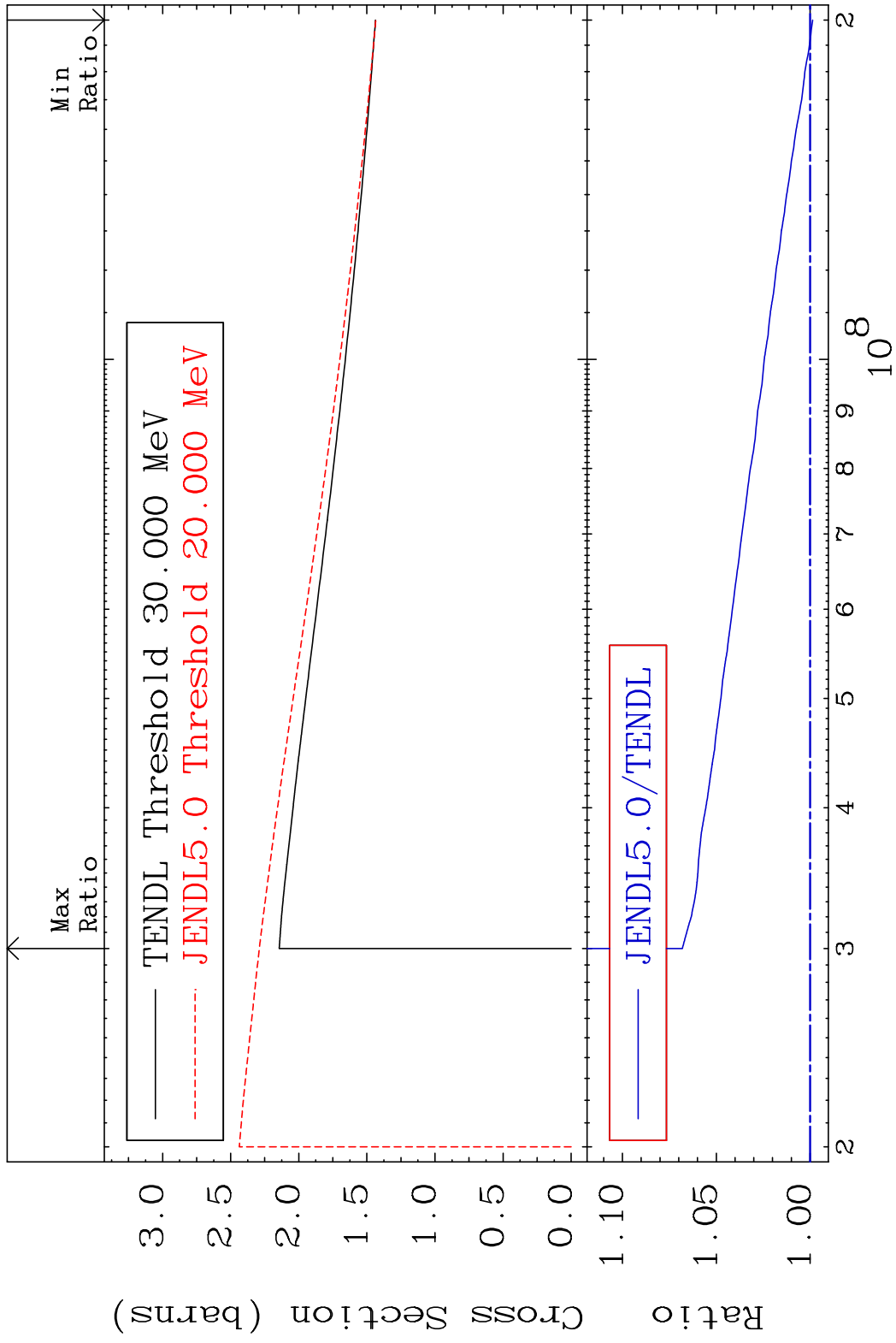
67-Ho-163

MAT 6719

(n, remainder)

67-Ho-163

Cross Section -0.130 To 6.806 %



4

Incident Energy (eV)

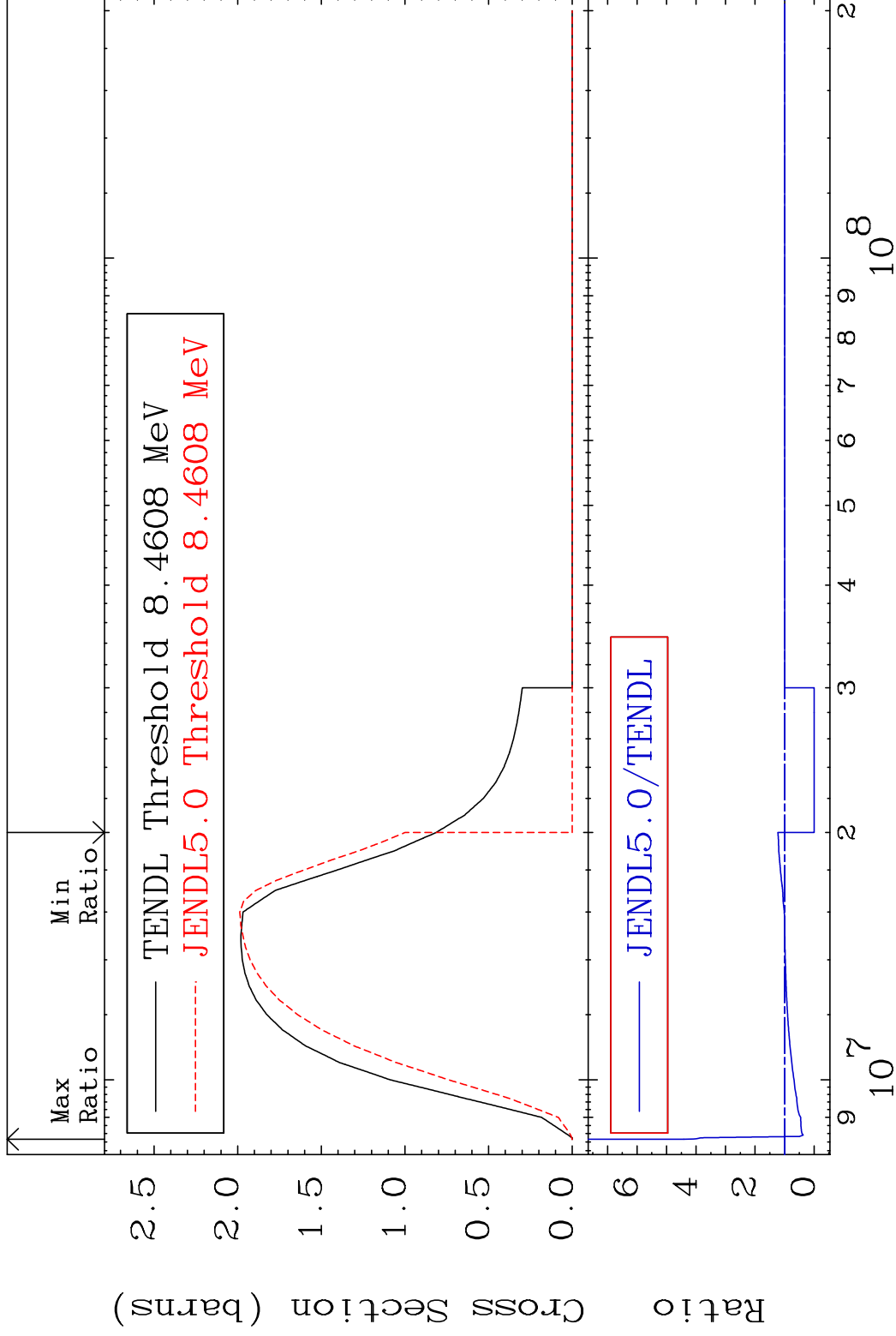
67-Ho-163

MAT 6719

(n,2n)

67-Ho-163

Cross Section -100.0 To 342.1 %



5

Incident Energy (eV)

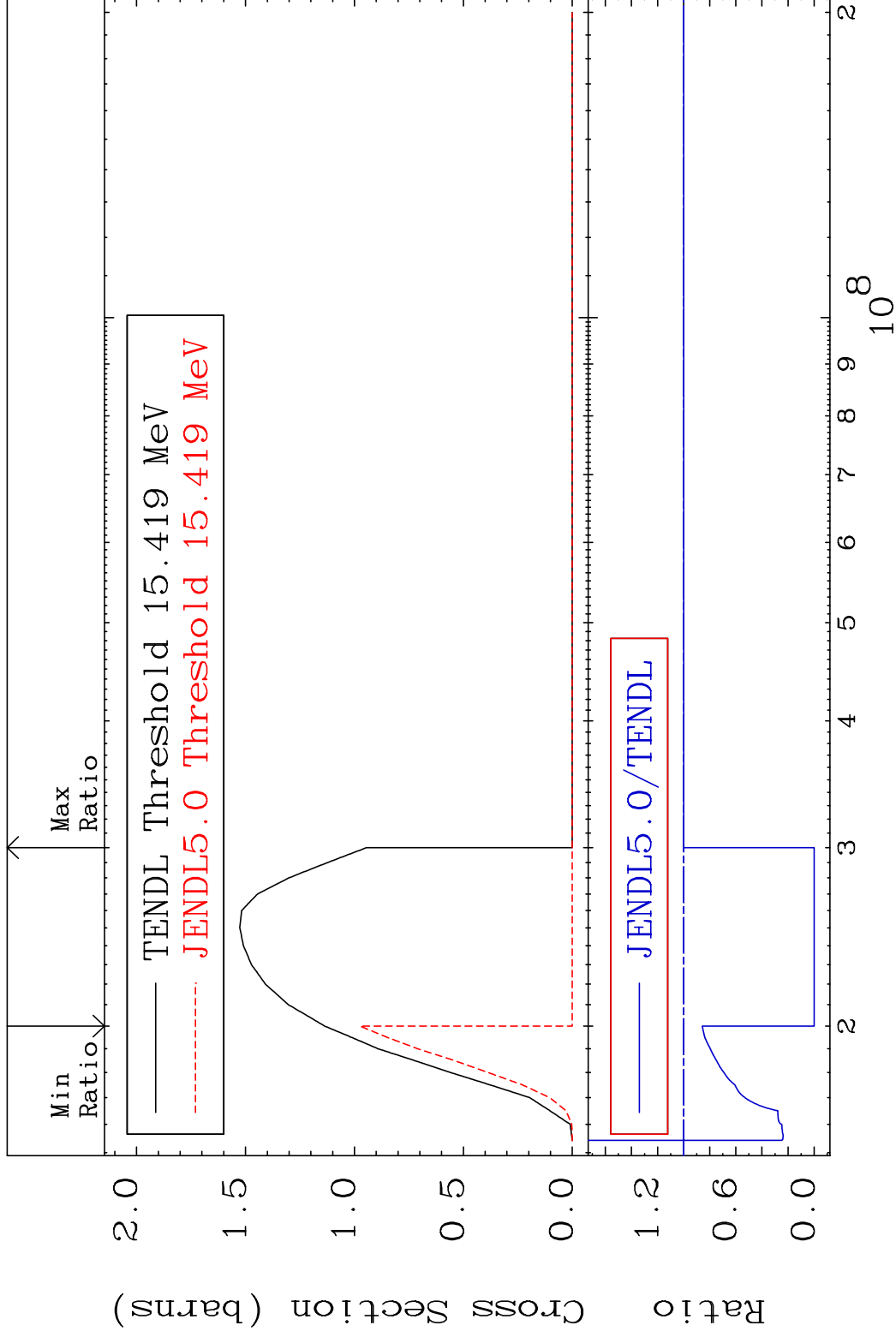
67-Ho-163

MAT 6719

(n,3n)

67-Ho-163

Cross Section -100.0 To 0.000 %



6

Incident Energy (eV)

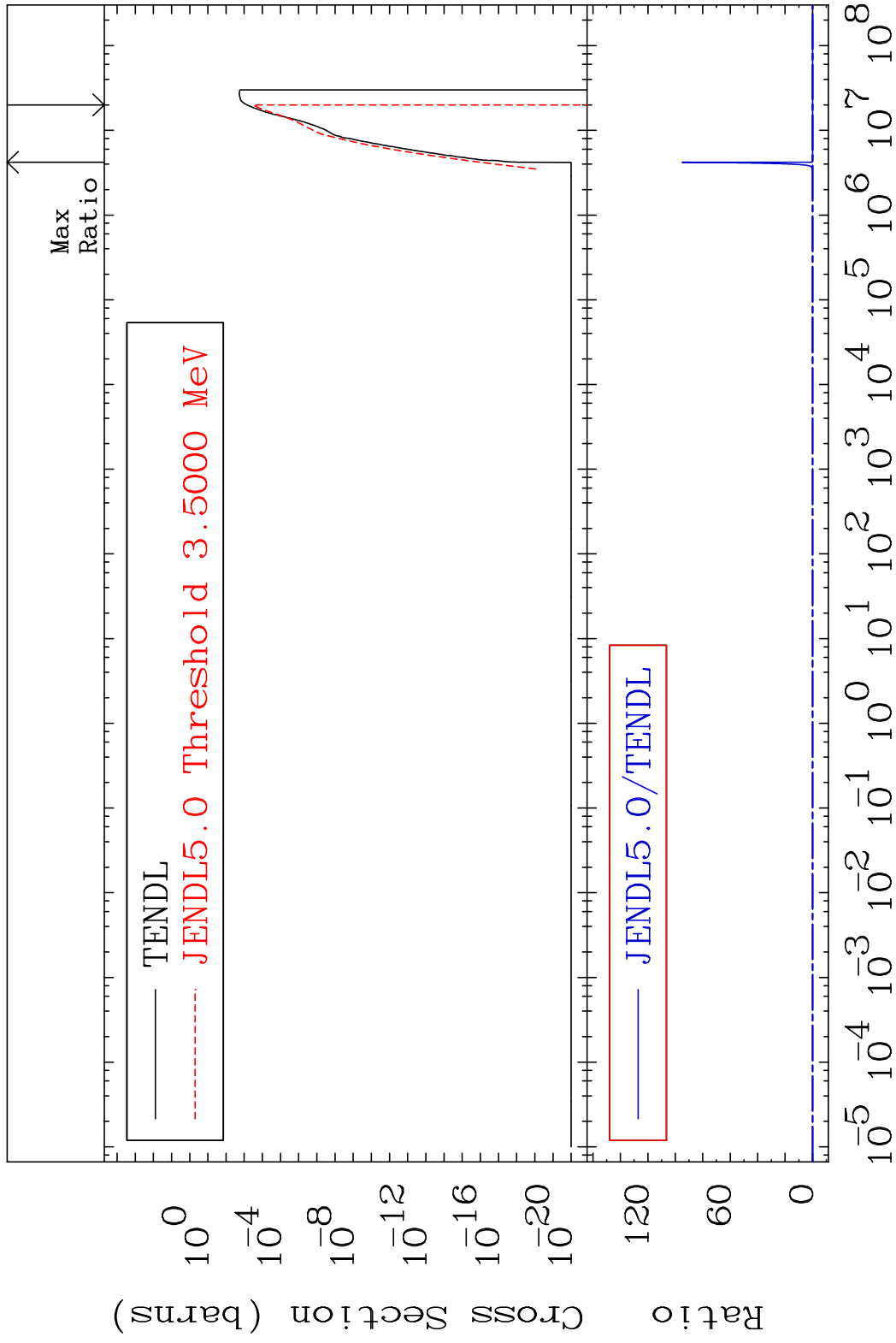
67-Ho-163

MAT 6719

(n, n') α

67-Ho-163

Cross Section -100.0 To 9999. %



7

Incident Energy (eV)

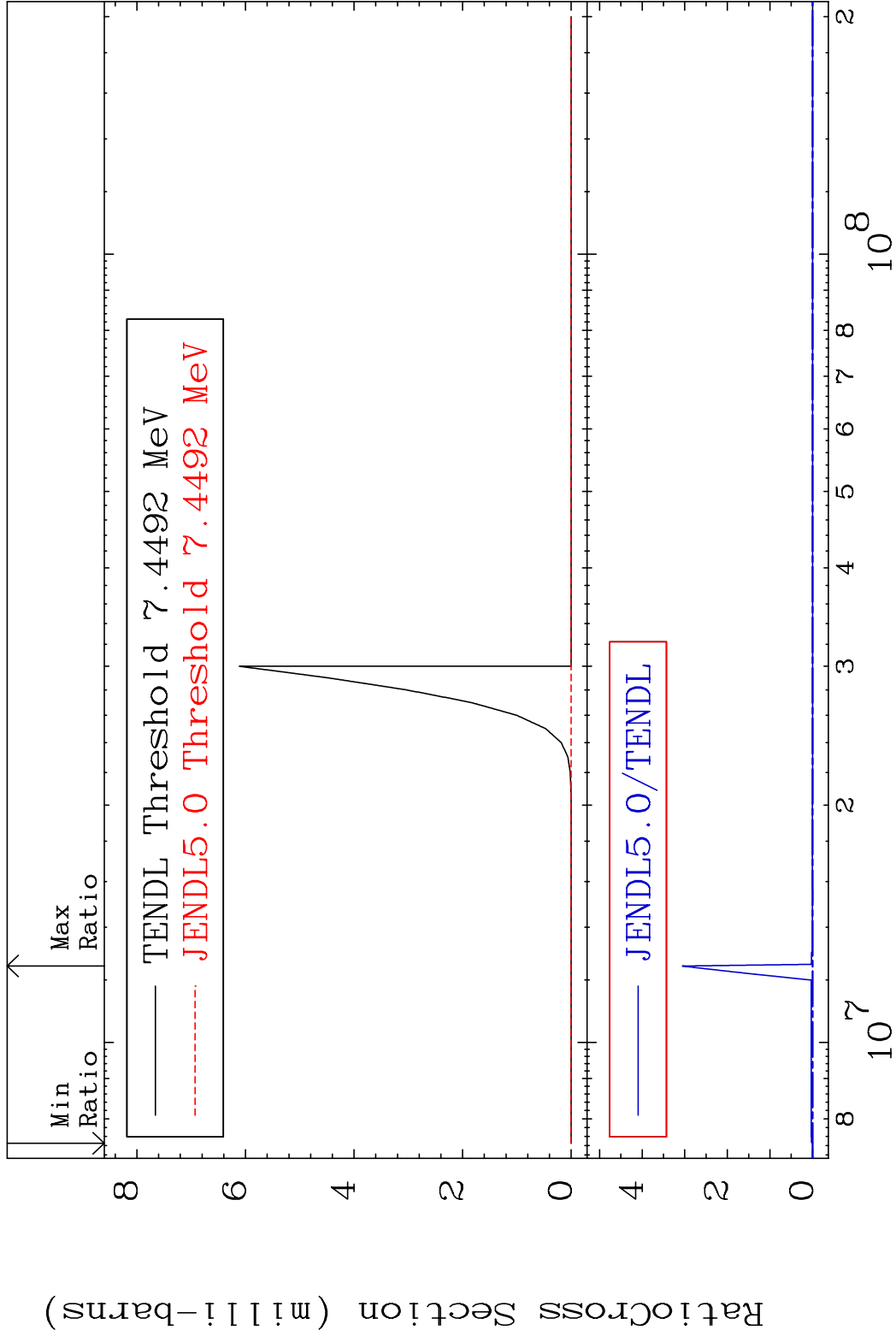
67-Ho-163

MAT 6719

(n,2n) α

67-Ho-163

Cross Section -100.0 To 9999. %



8

Incident Energy (eV)

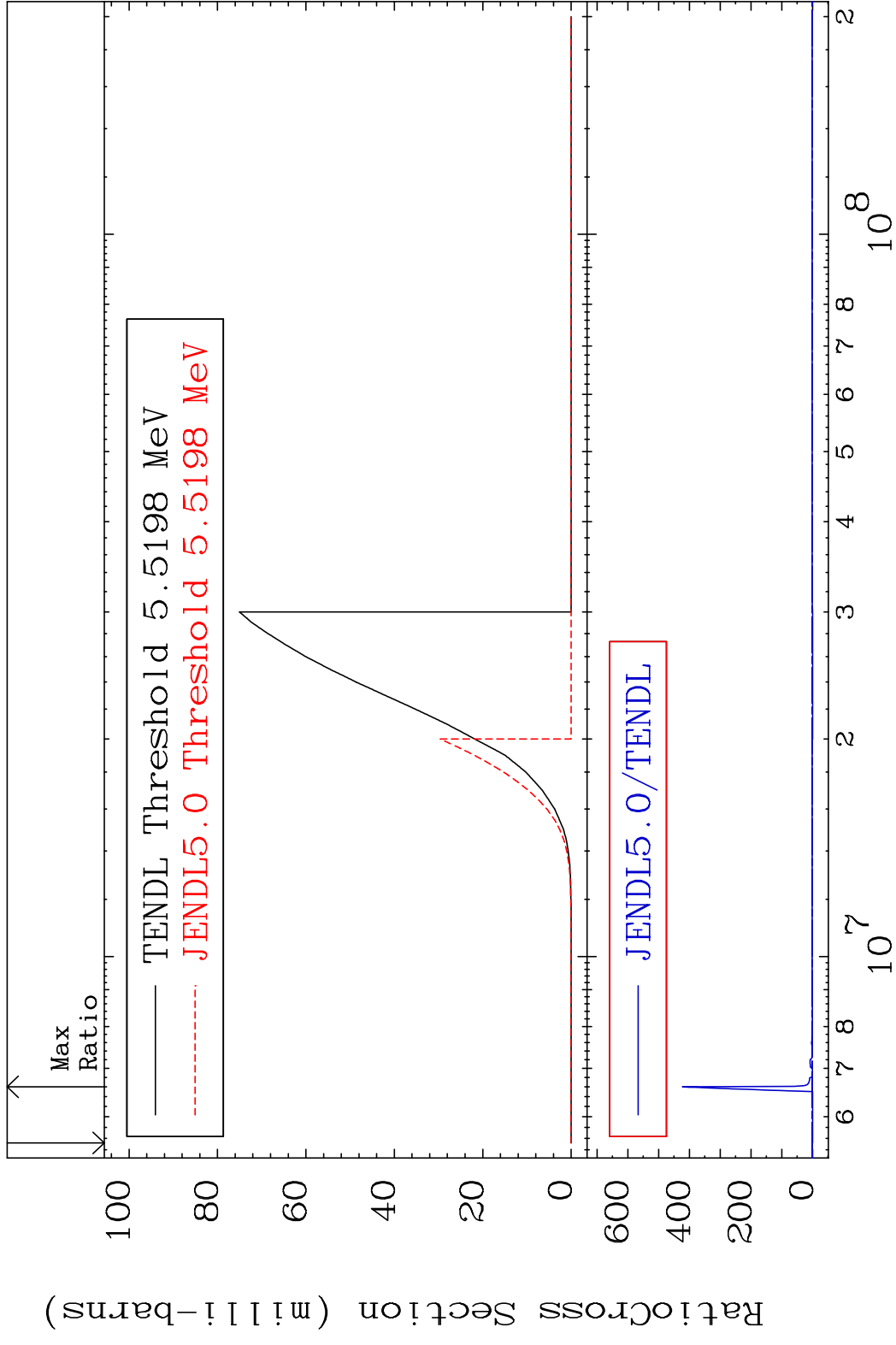
67-Ho-163

MAT 6719

(n, n') p

67-Ho-163

Cross Section -100.0 To 9999. %

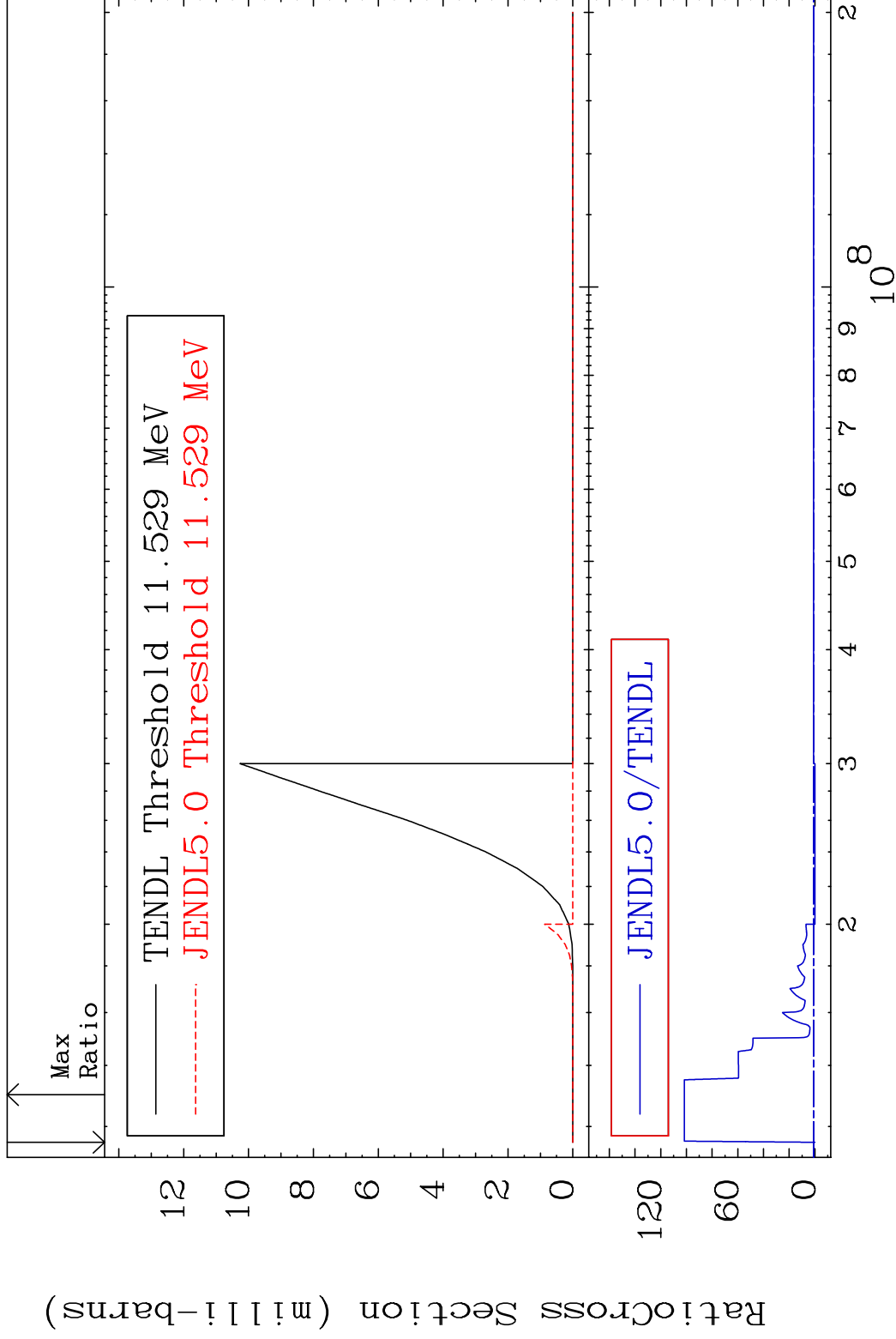


MAT 6719

(n, n') d

67-Ho-163

Cross Section -100.0 To 9999. %



10

Incident Energy (eV)

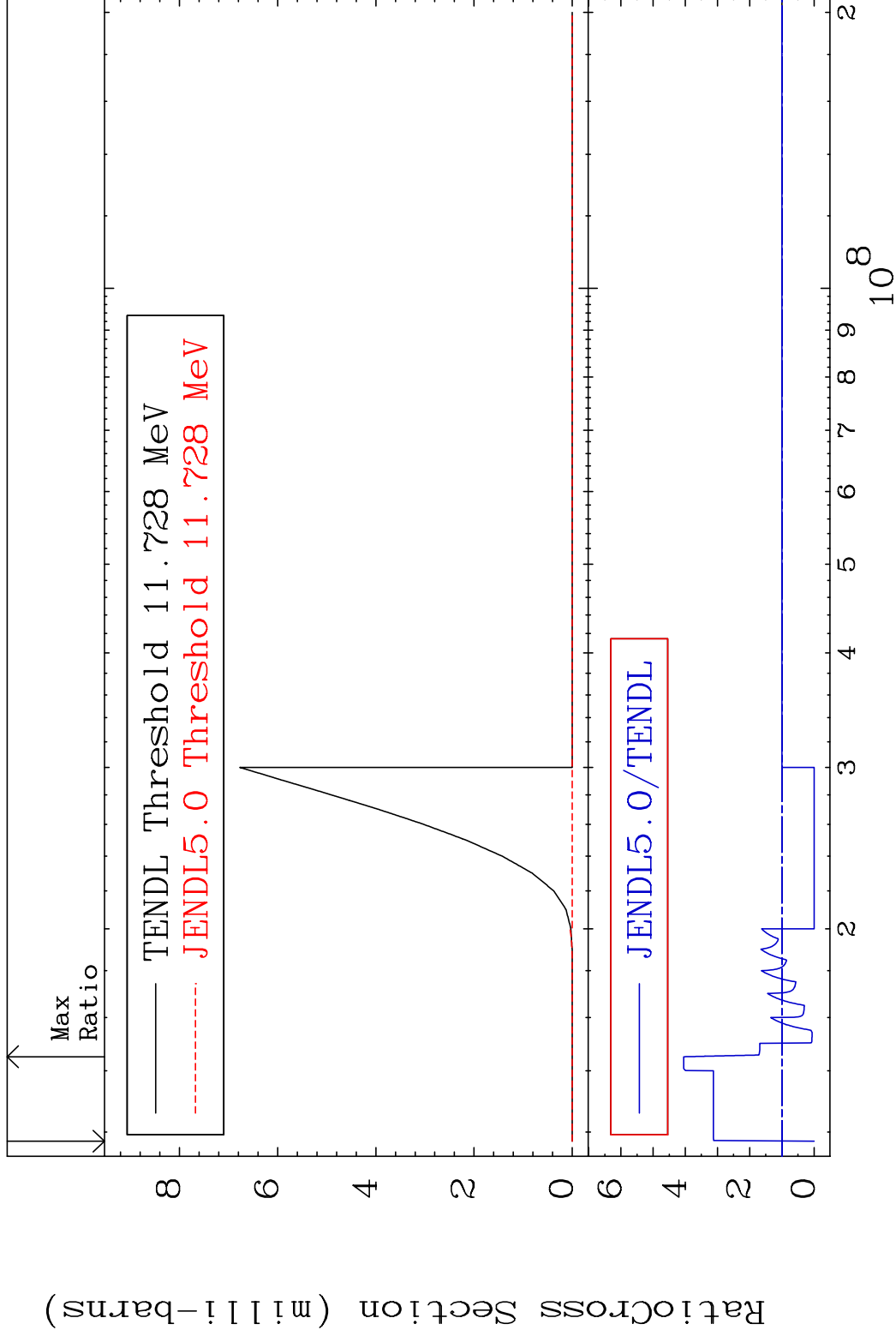
67-Ho-163

MAT 6719

(n, n') t

67-Ho-163

Cross Section -100.0 To 305.1 %

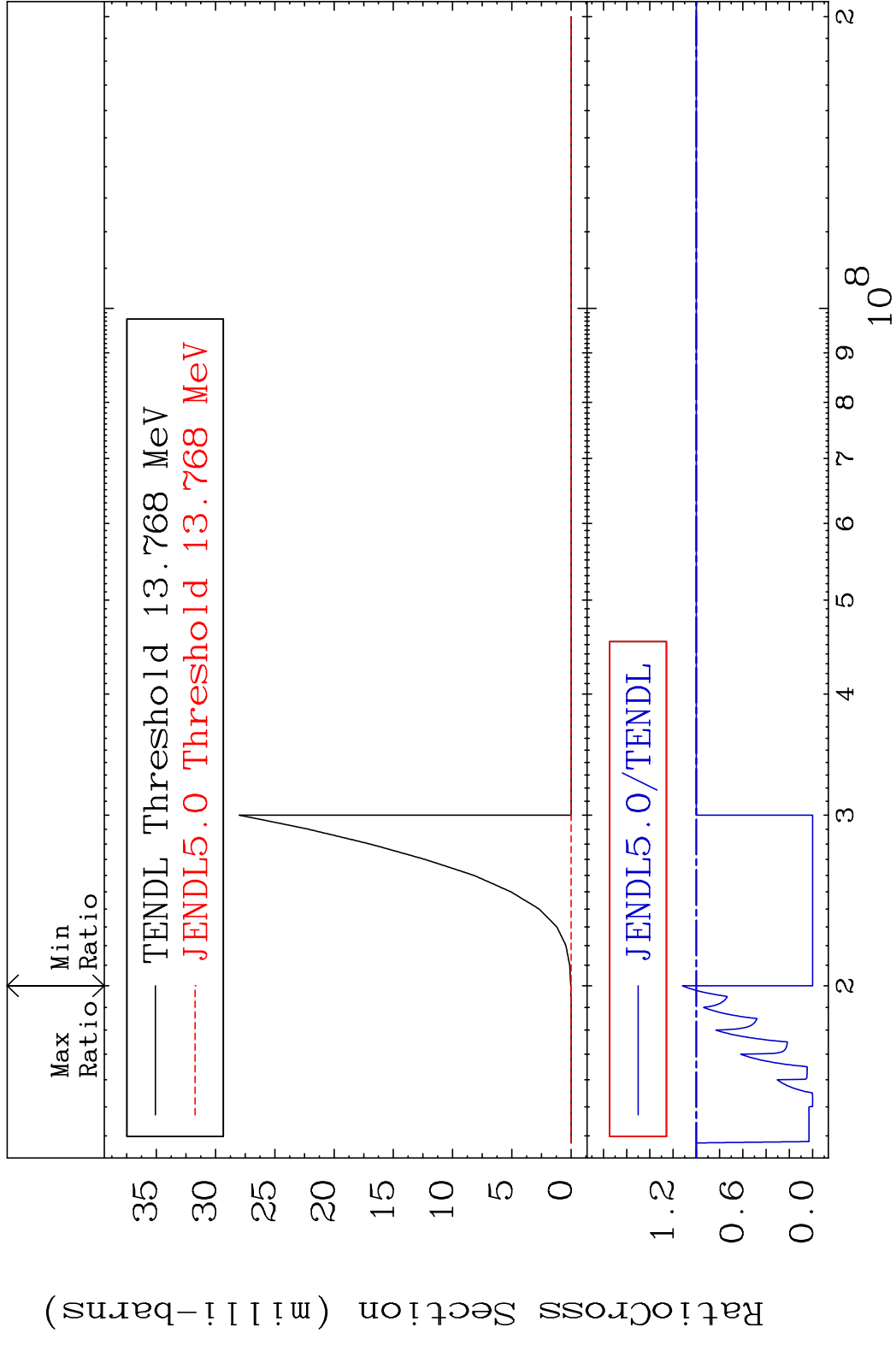


MAT 6719

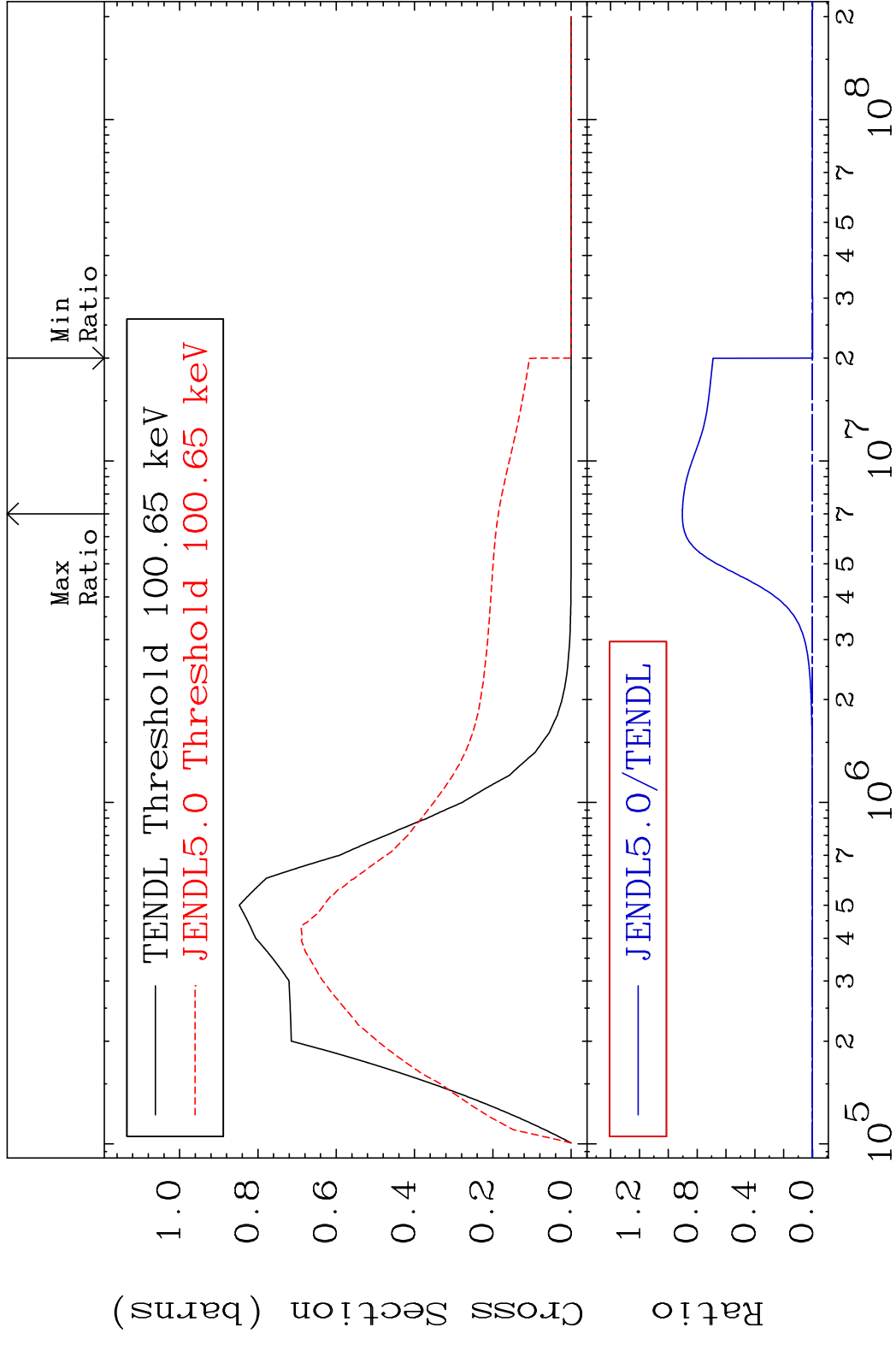
(n,2n) p

67-Ho-163

Cross Section -100.0 To 12.05 %

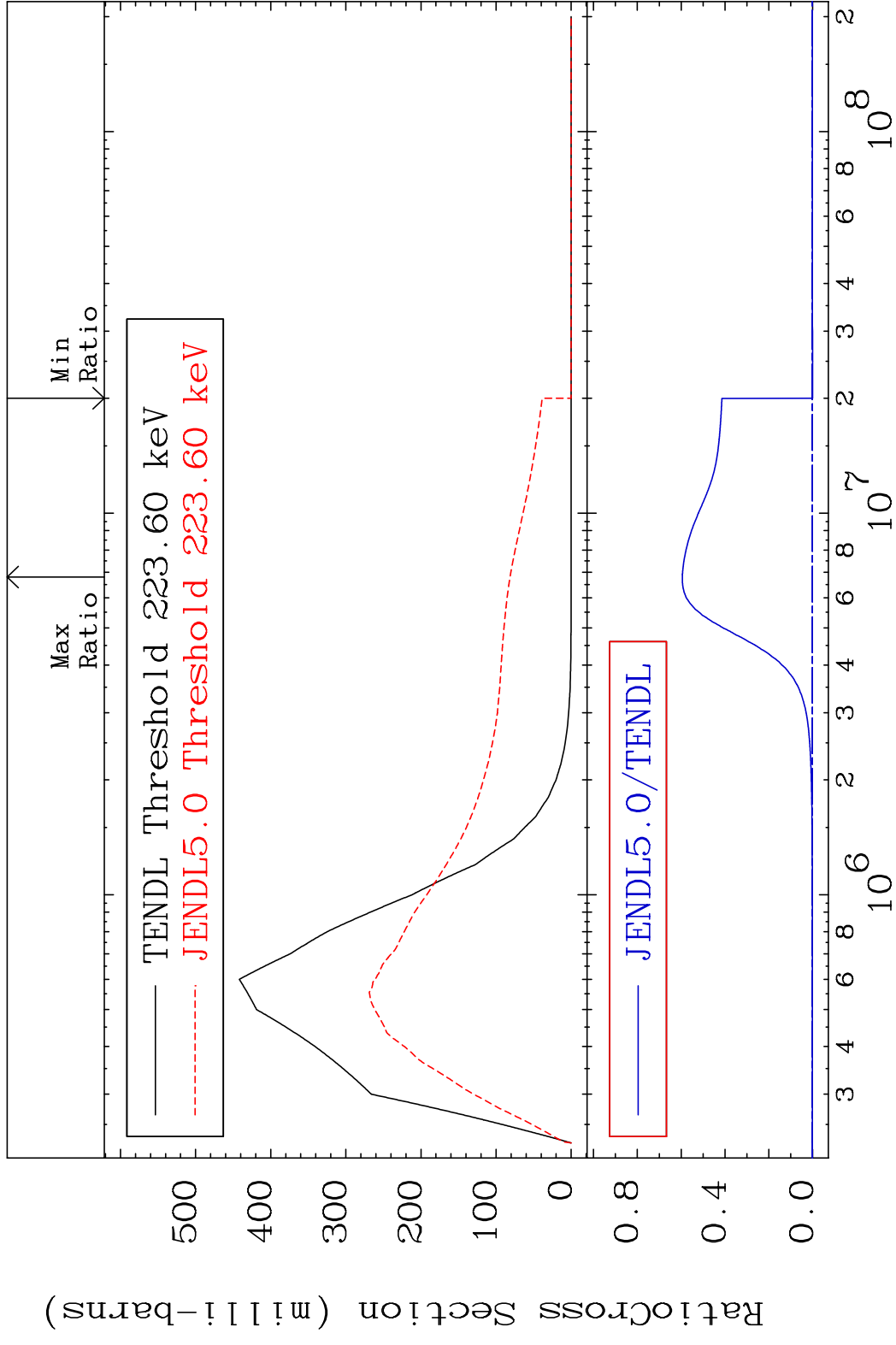


MAT 6719 MT= 51 (n, n') Level 67-Ho-163
 Cross Section -100.0 To 9999. %

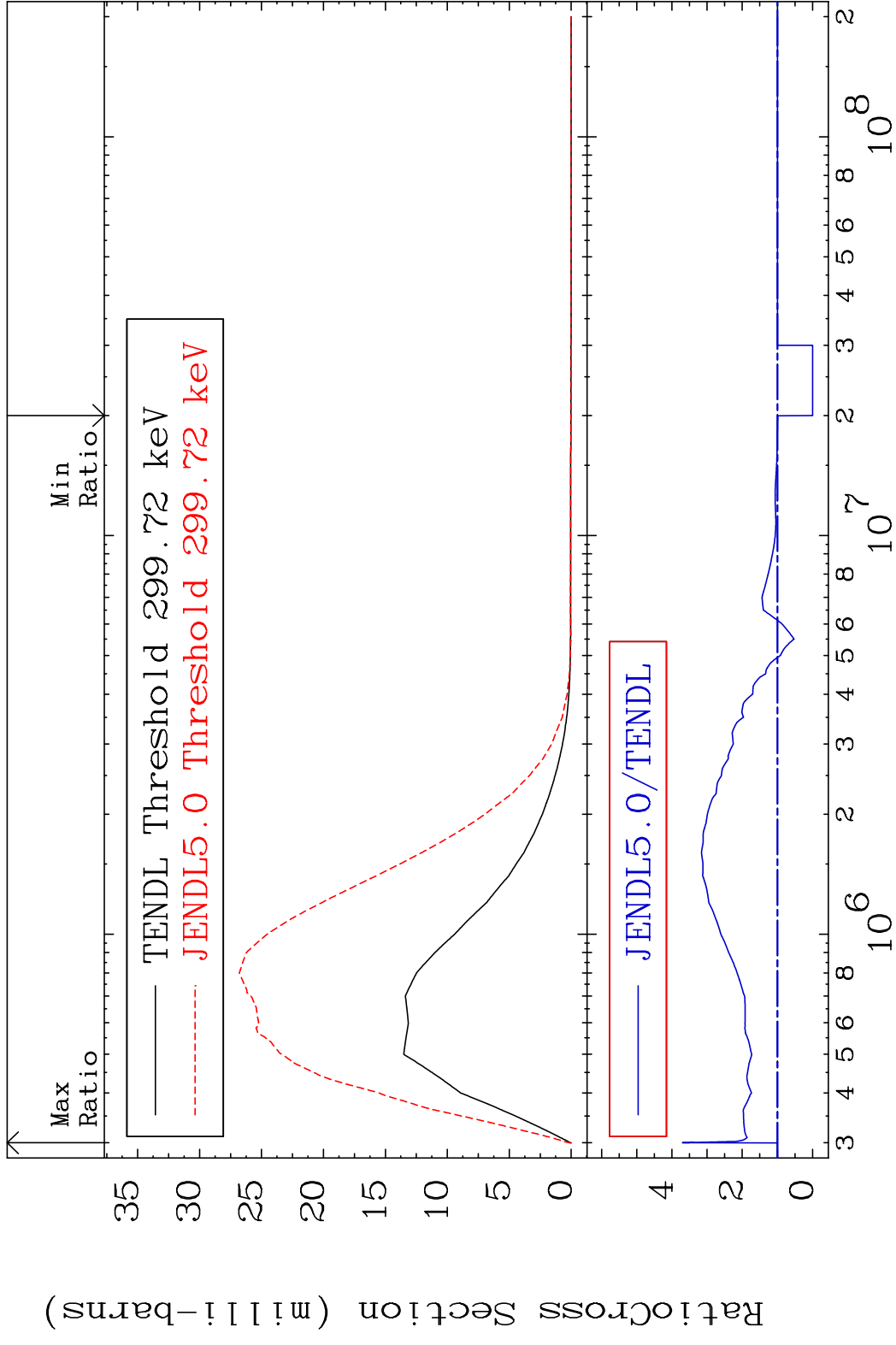


13 Incident Energy (eV) 67-Ho-163

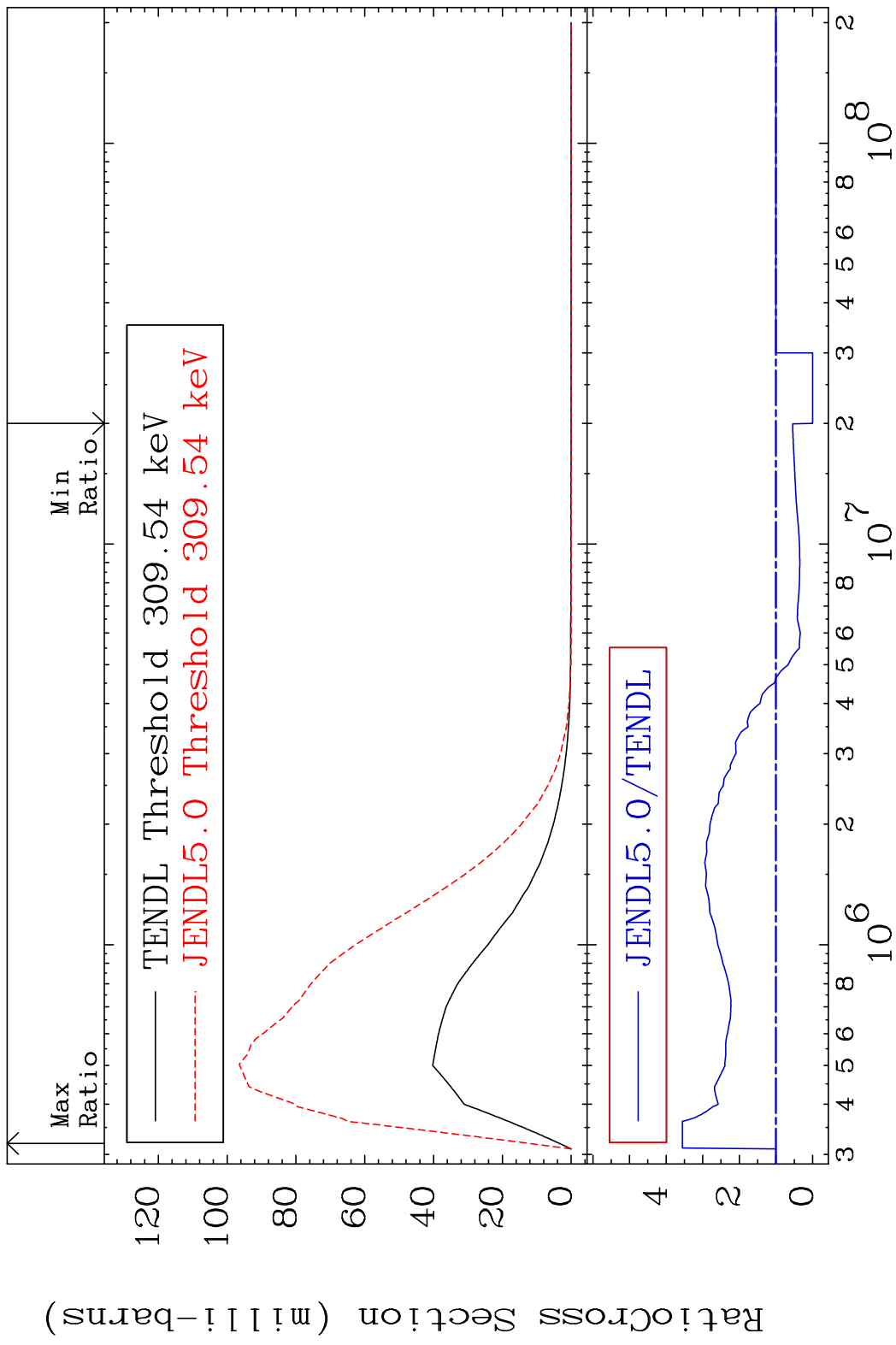
MAT 6719 MT= 52 (n, n') Level 67-Ho-163
 Cross Section -100.0 To 9999. %



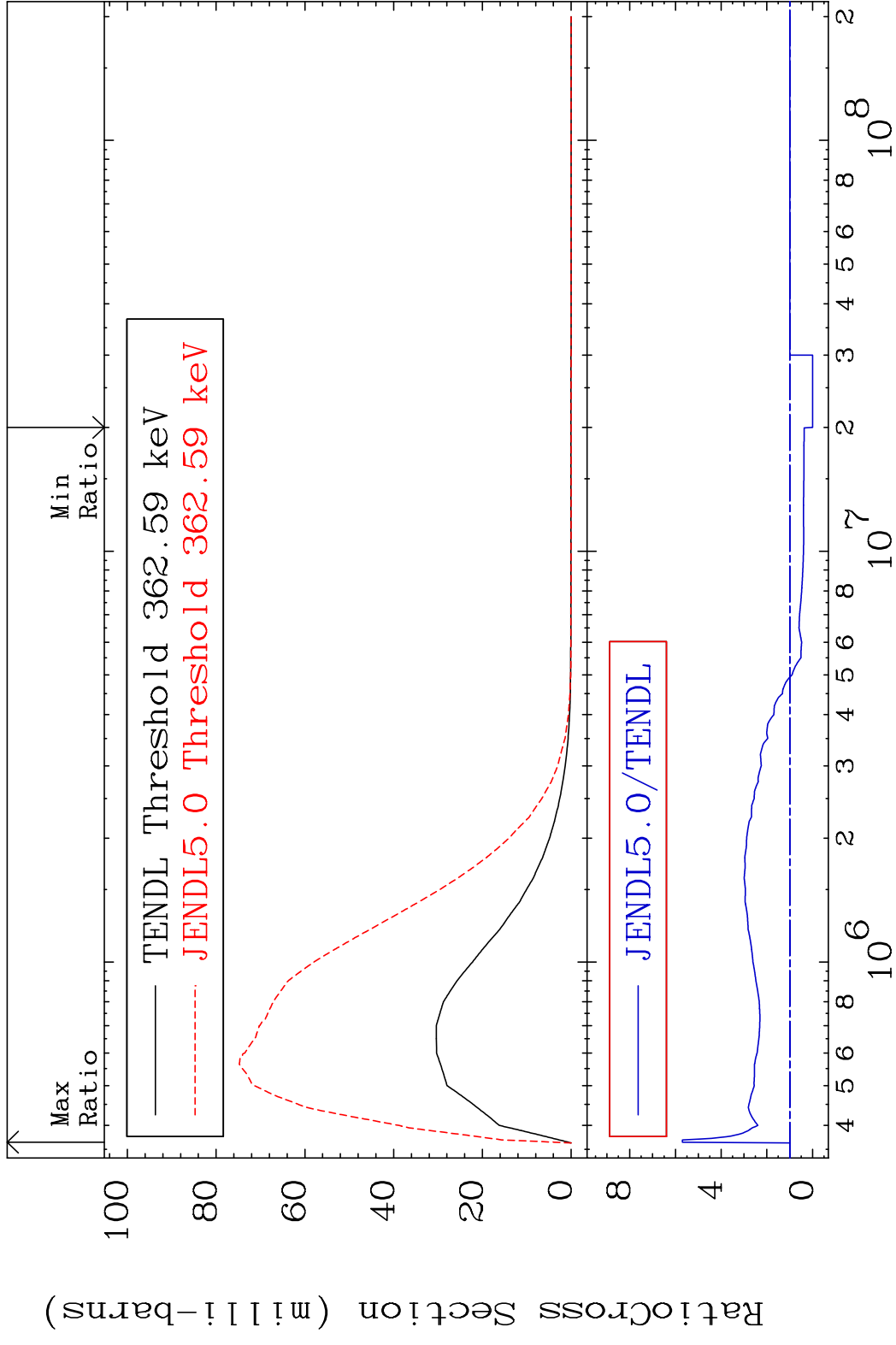
MAT 6719 MT= 53 (n, n') Level 67-Ho-163
 Cross Section -100.0 To 270.3 %



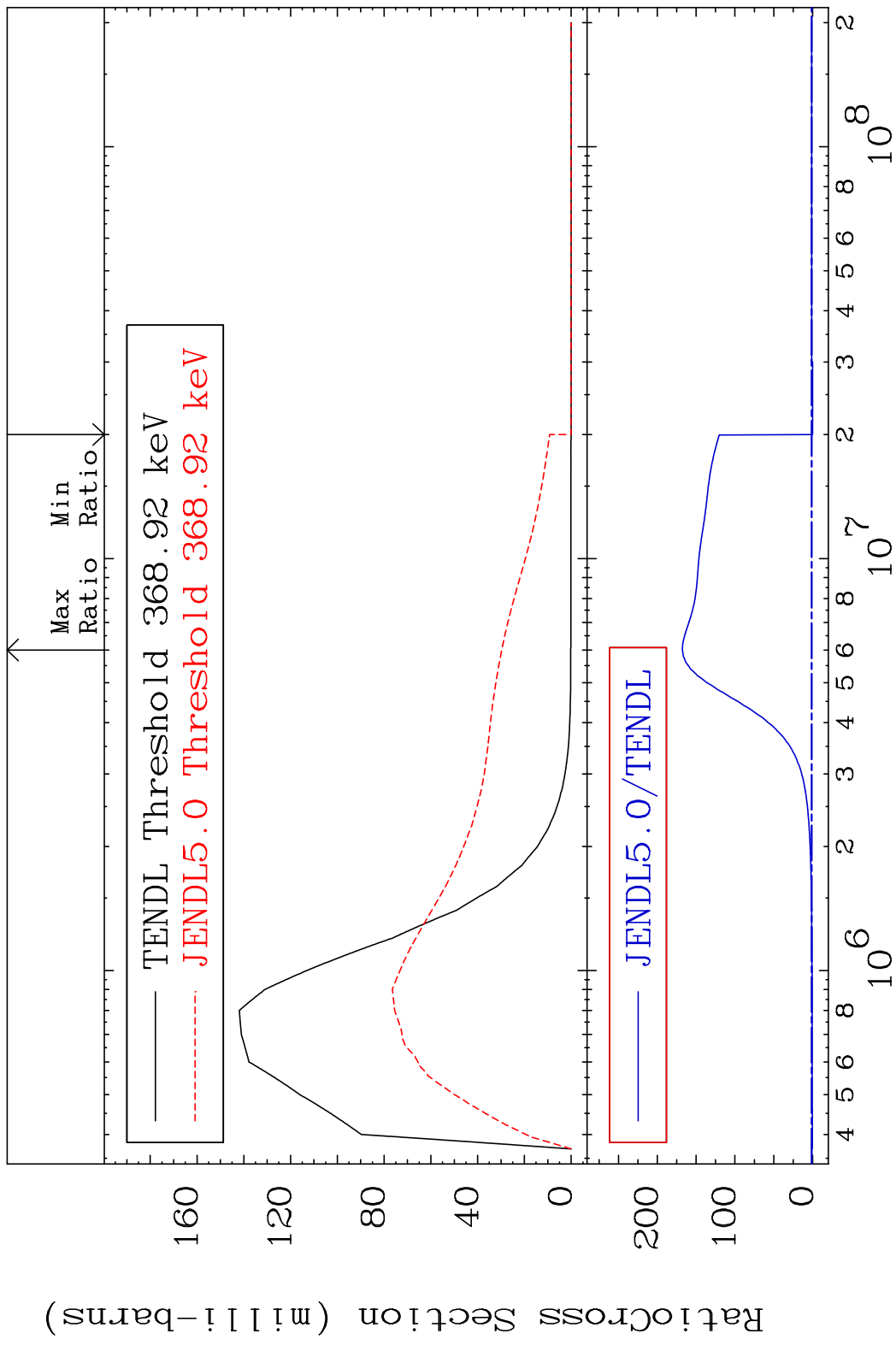
MAT 6719 MT= 54 (n,n') Level 67-Ho-163
 Cross Section -100.0 To 255.7 %



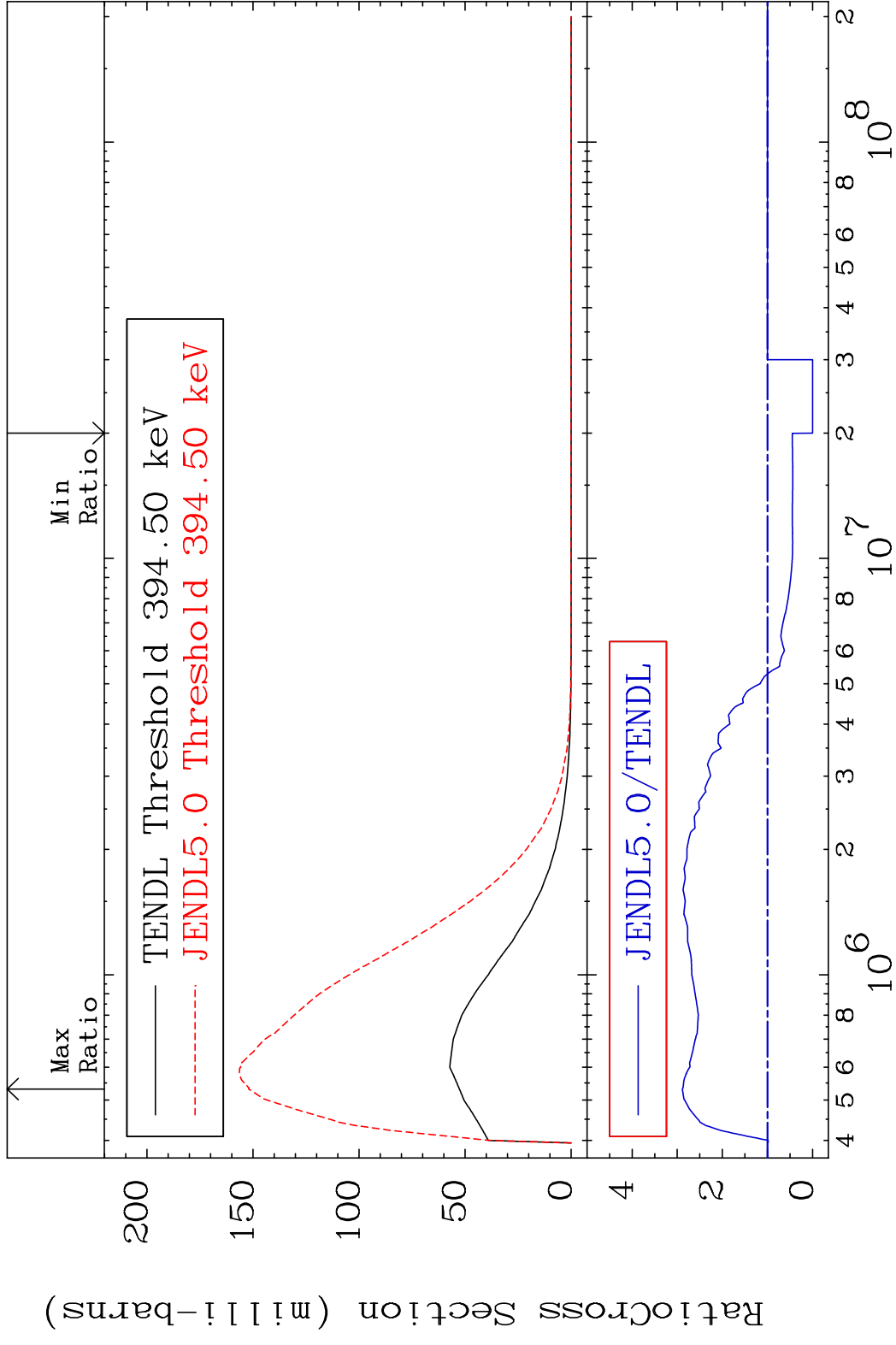
MAT 6719 MT= 55 (n, n') Level 67-Ho-163
 Cross Section -100.0 To 469.8 %



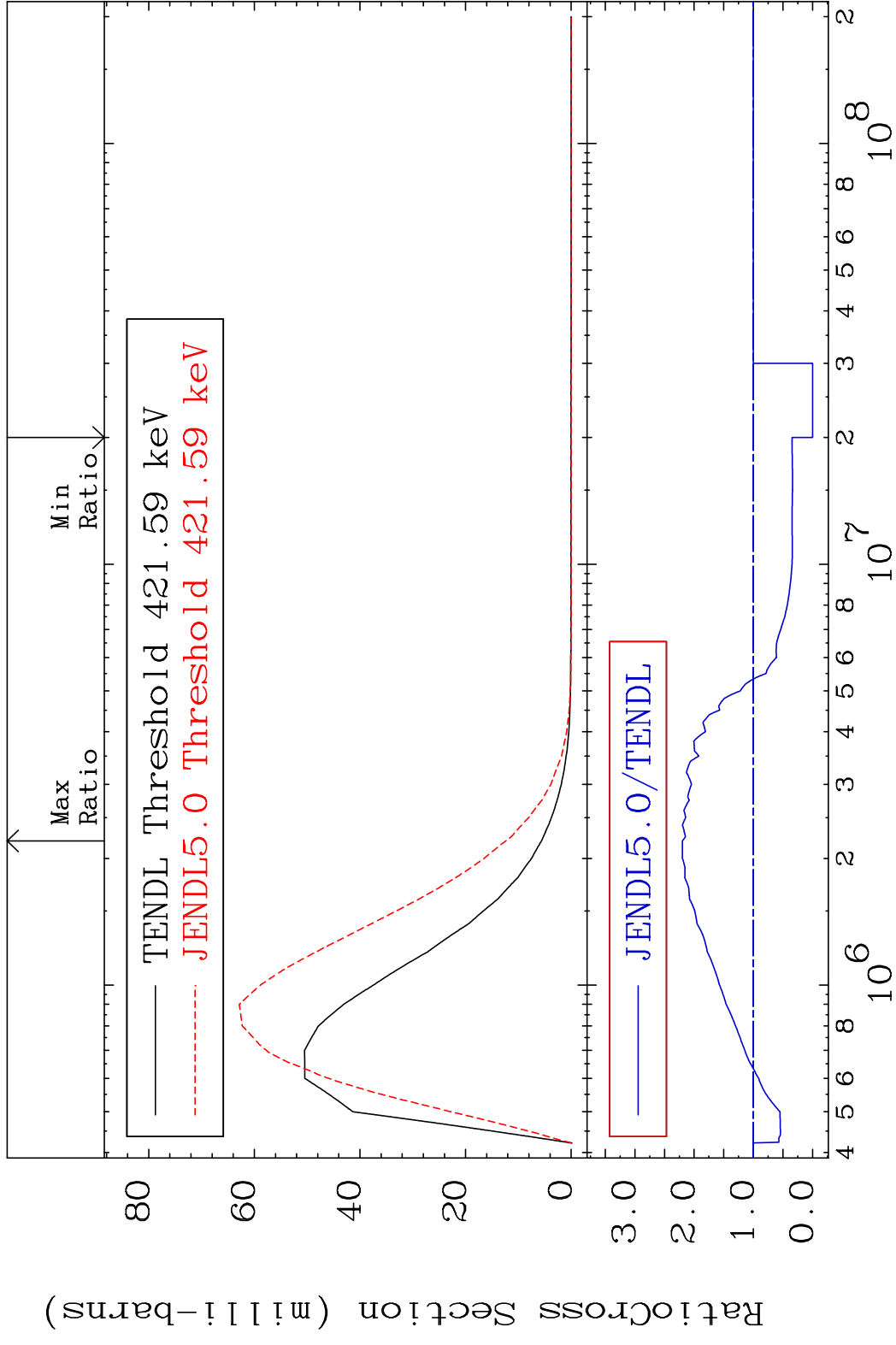
MAT 6719 MT= 56 (n, n') Level 67-Ho-163
 Cross Section -100.0 To 9999. %



MAT 6719 MT= 57 (n, n') Level 67-Ho-163
 Cross Section -100.0 To 188.7 %

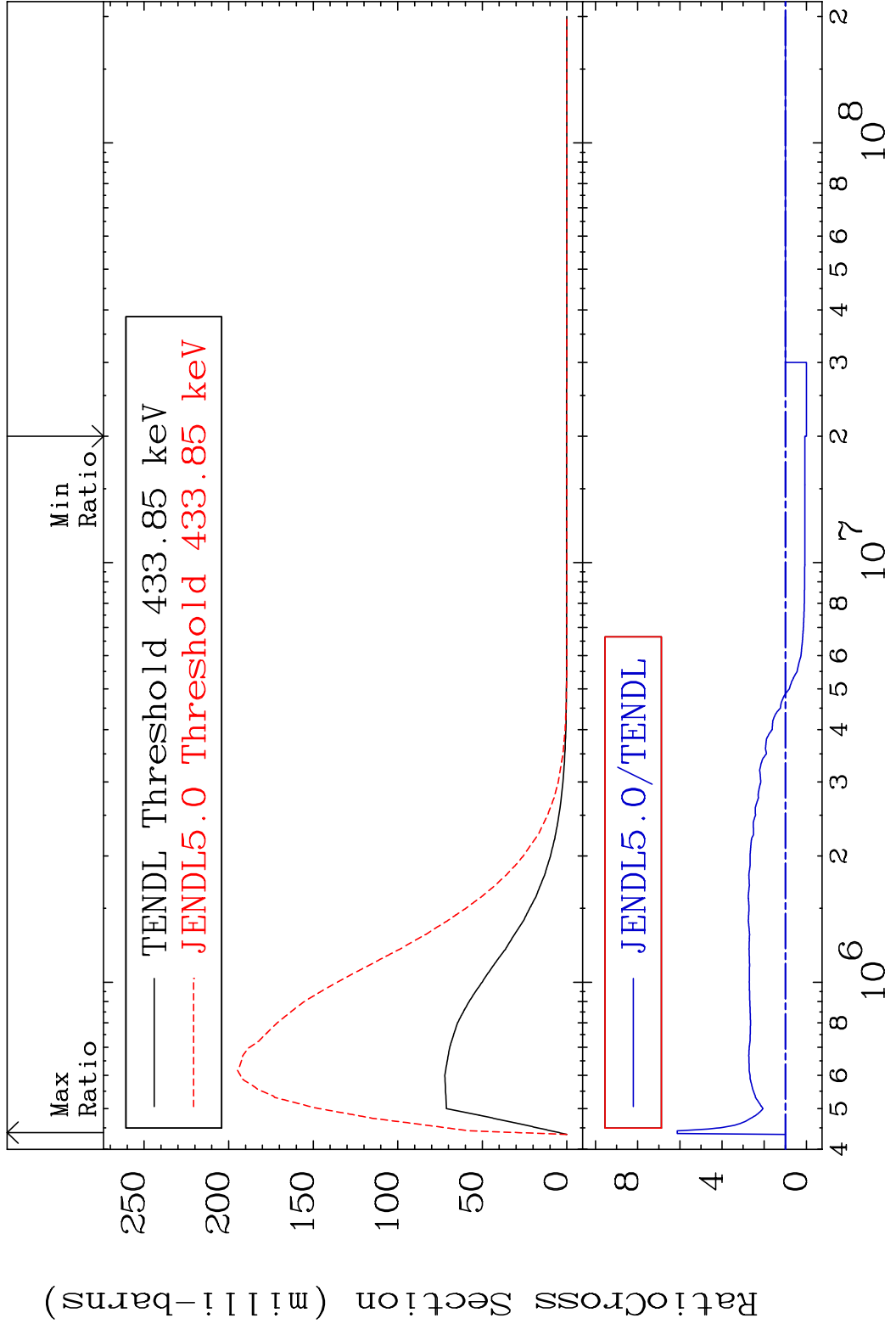


MAT 6719 MT= 58 (n, n') Level 67-Ho-163
 Cross Section -100.0 To 119.9 %

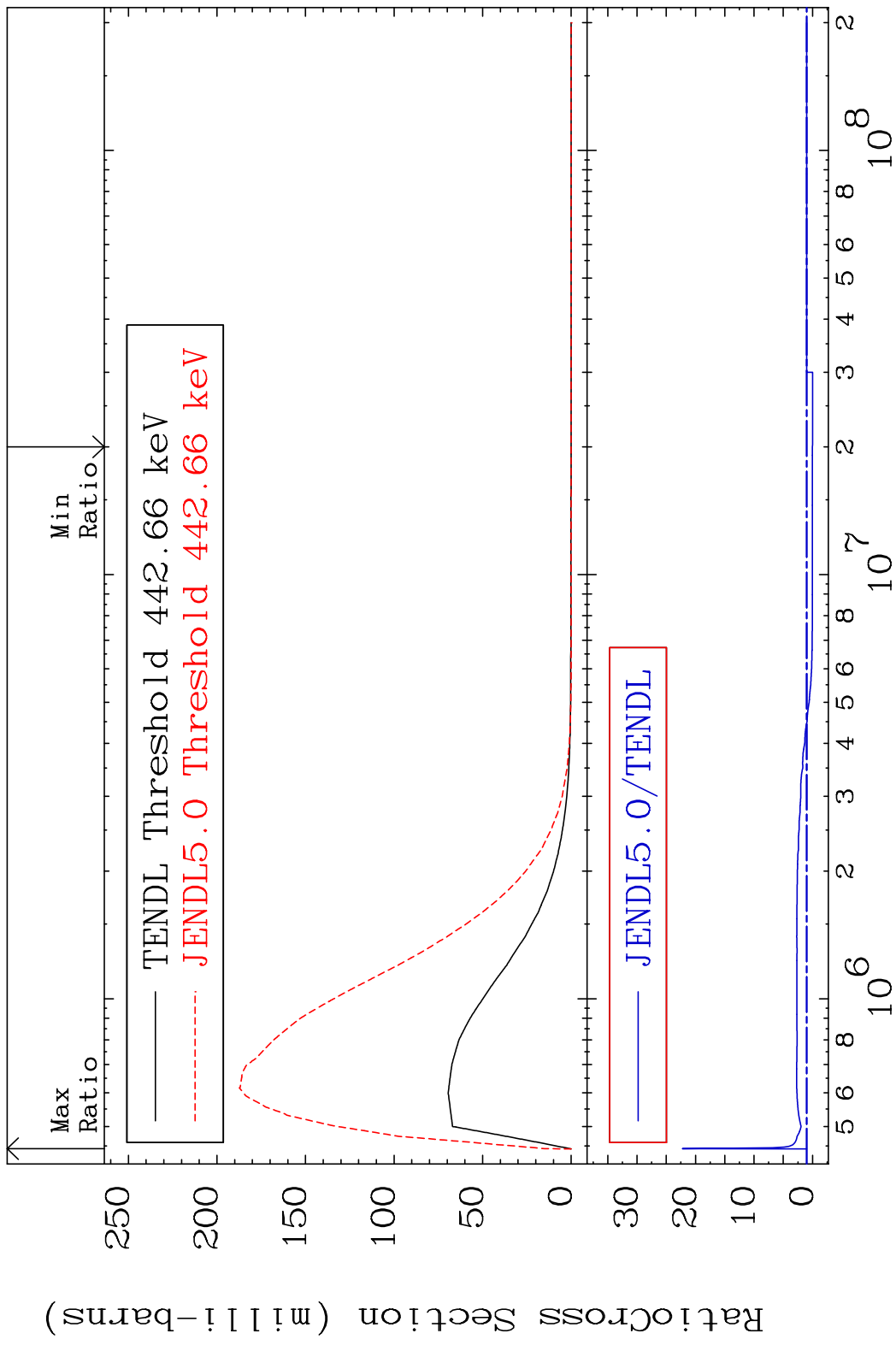


20 Incident Energy (eV) 67-Ho-163

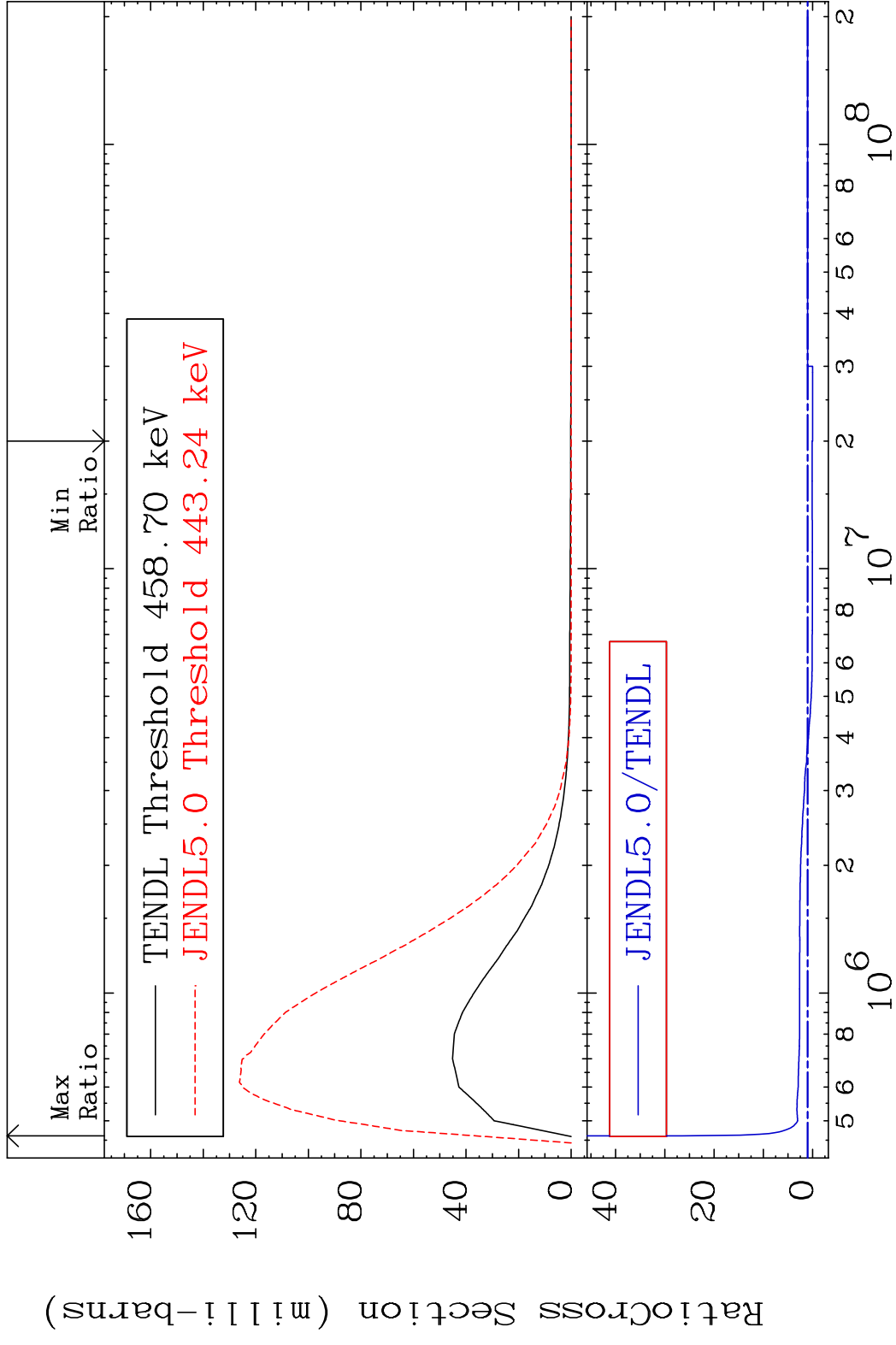
MAT 6719 MT= 59 (n, n') Level 67-Ho-163
 Cross Section -100.0 To 512.8 %



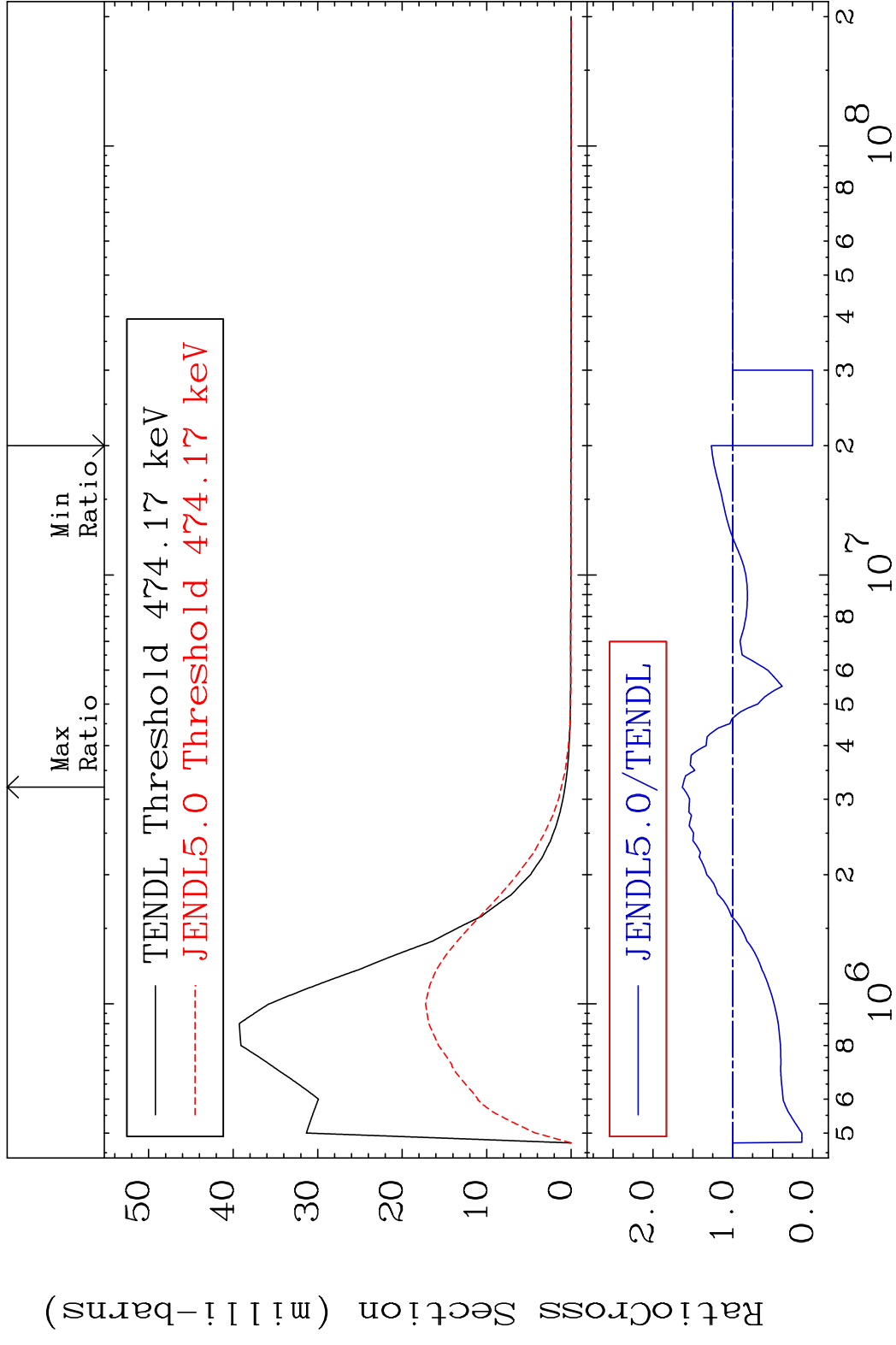
MAT 6719 MT= 60 (n, n') Level 67-Ho-163
 Cross Section -100.0 To 2125. %



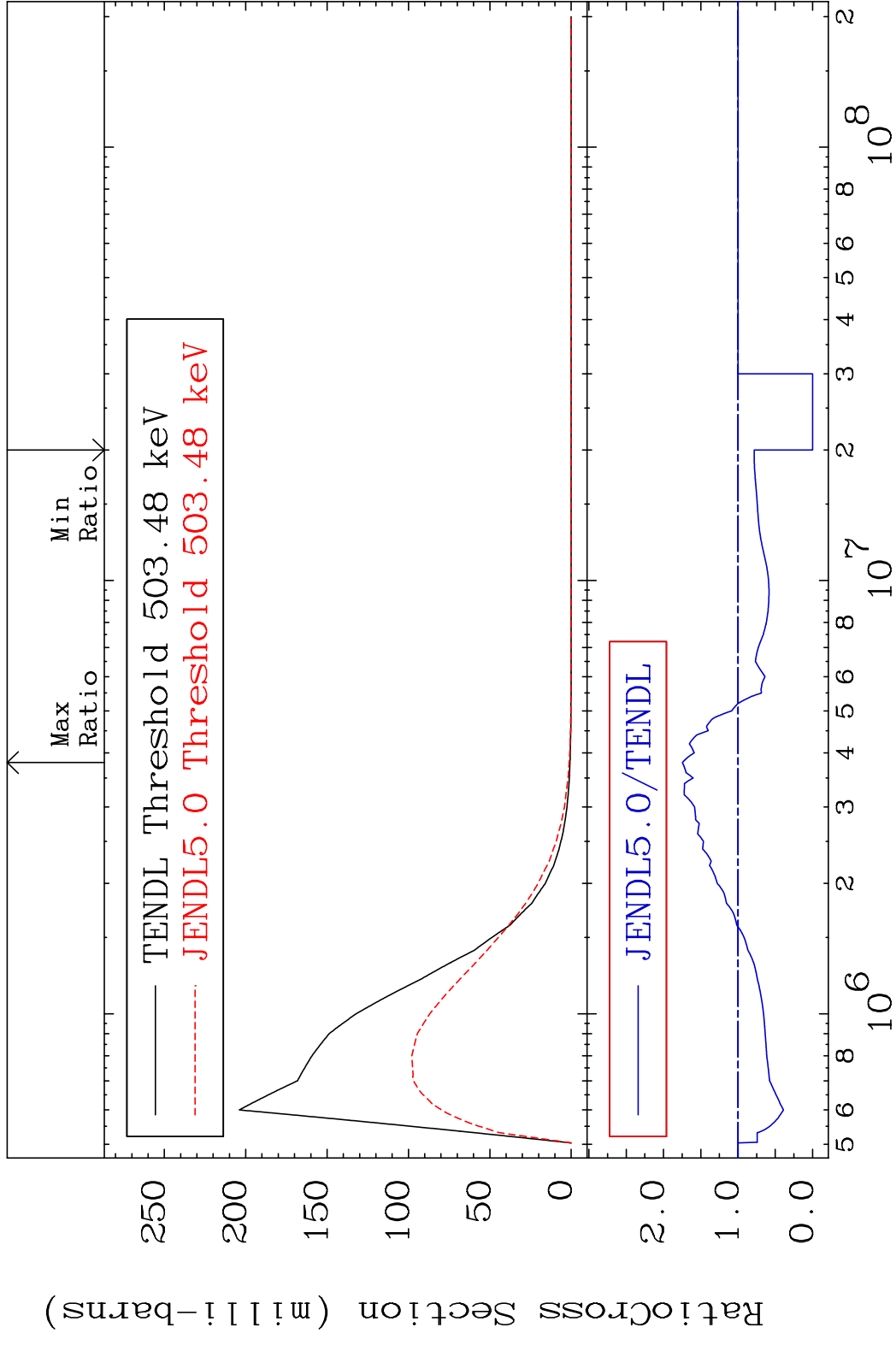
MAT 6719 MT= 61 (n, n') Level 67-Ho-163
 Cross Section -100.0 To 2544. %



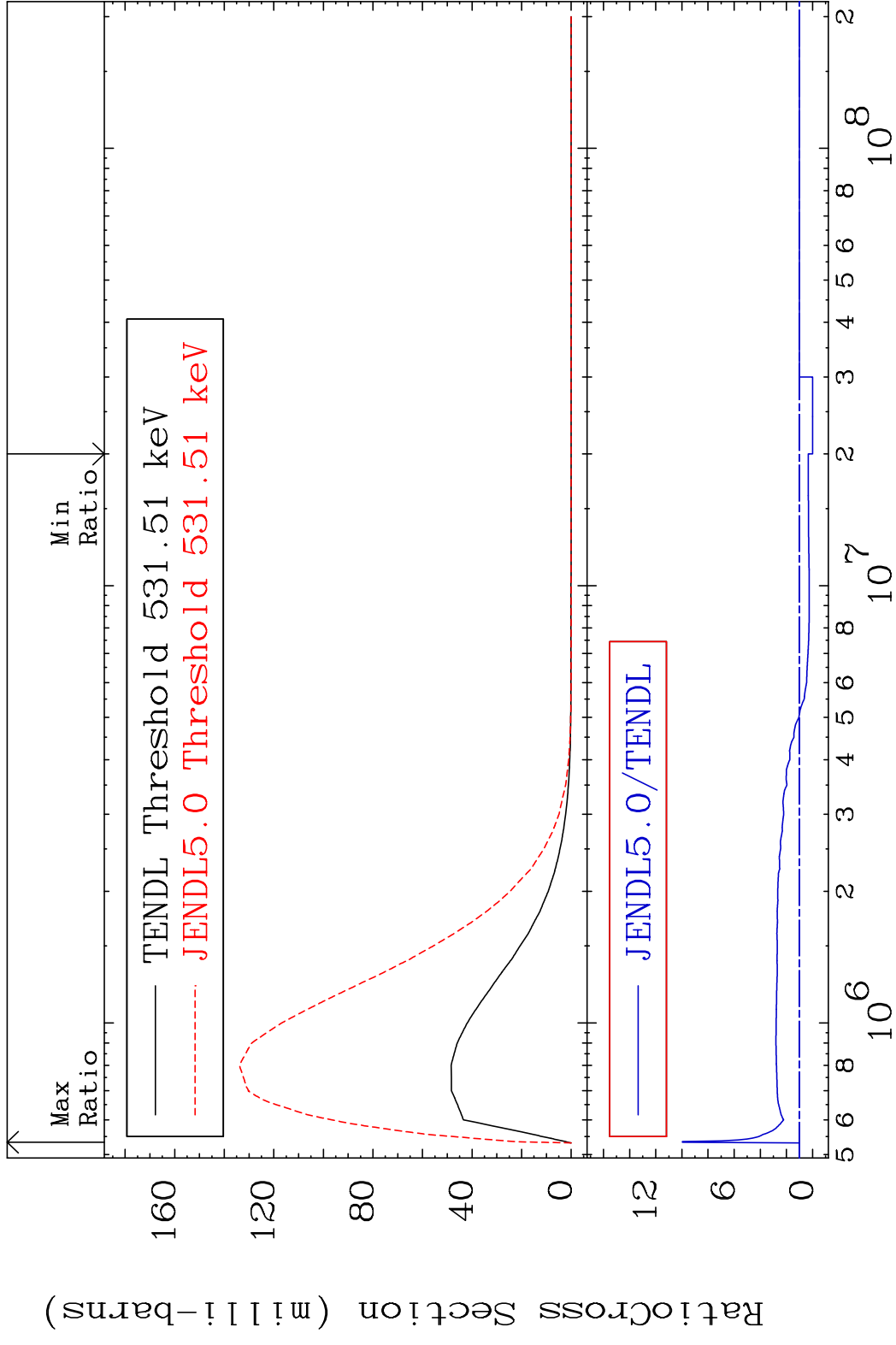
MAT 6719 MT= 62 (n, n') Level 67-Ho-163
 Cross Section -100.0 To 63.17 %



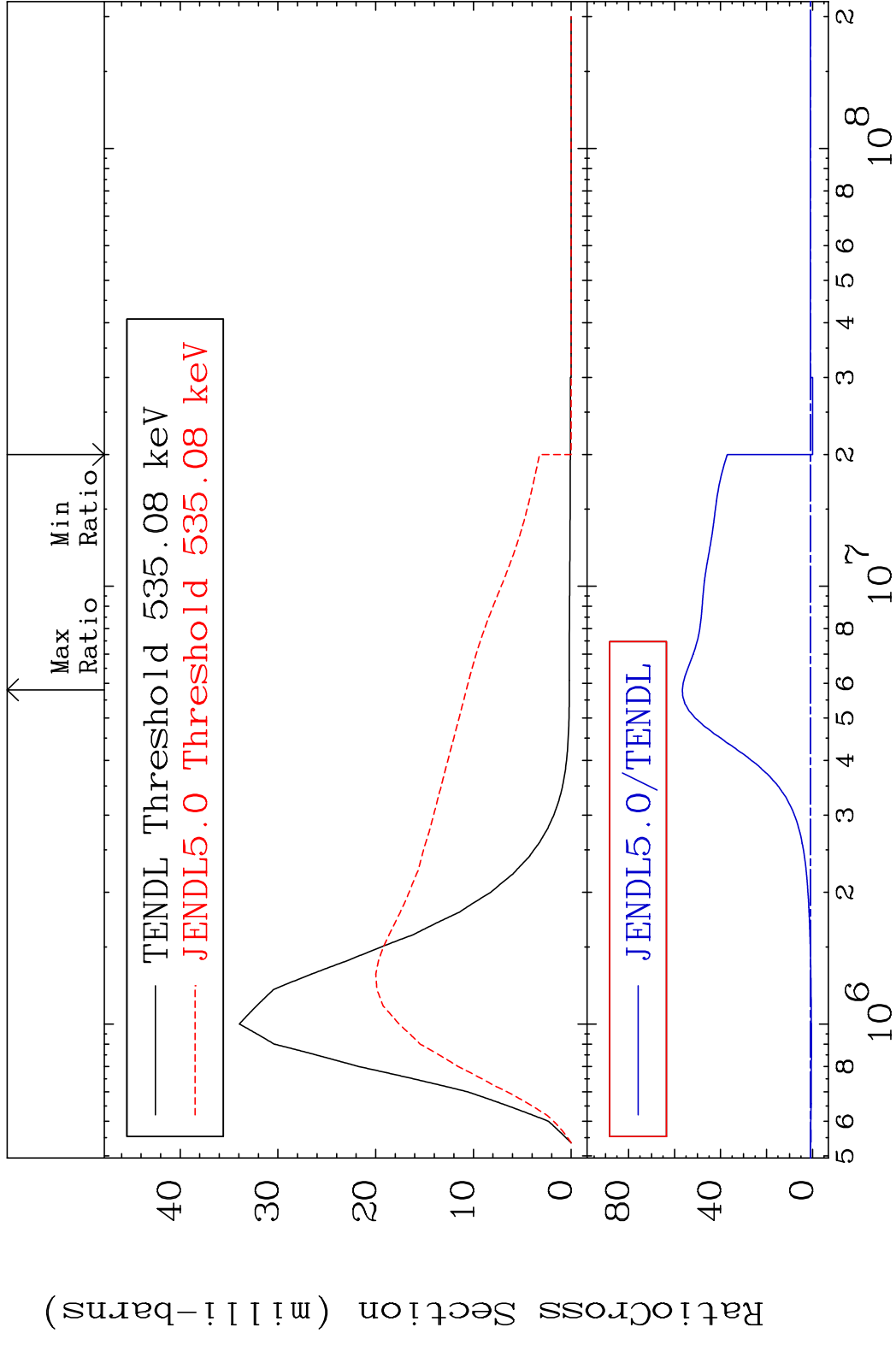
MAT 6719 MT= 63 (n, n') Level 67-Ho-163
 Cross Section -100.0 To 74.70 %



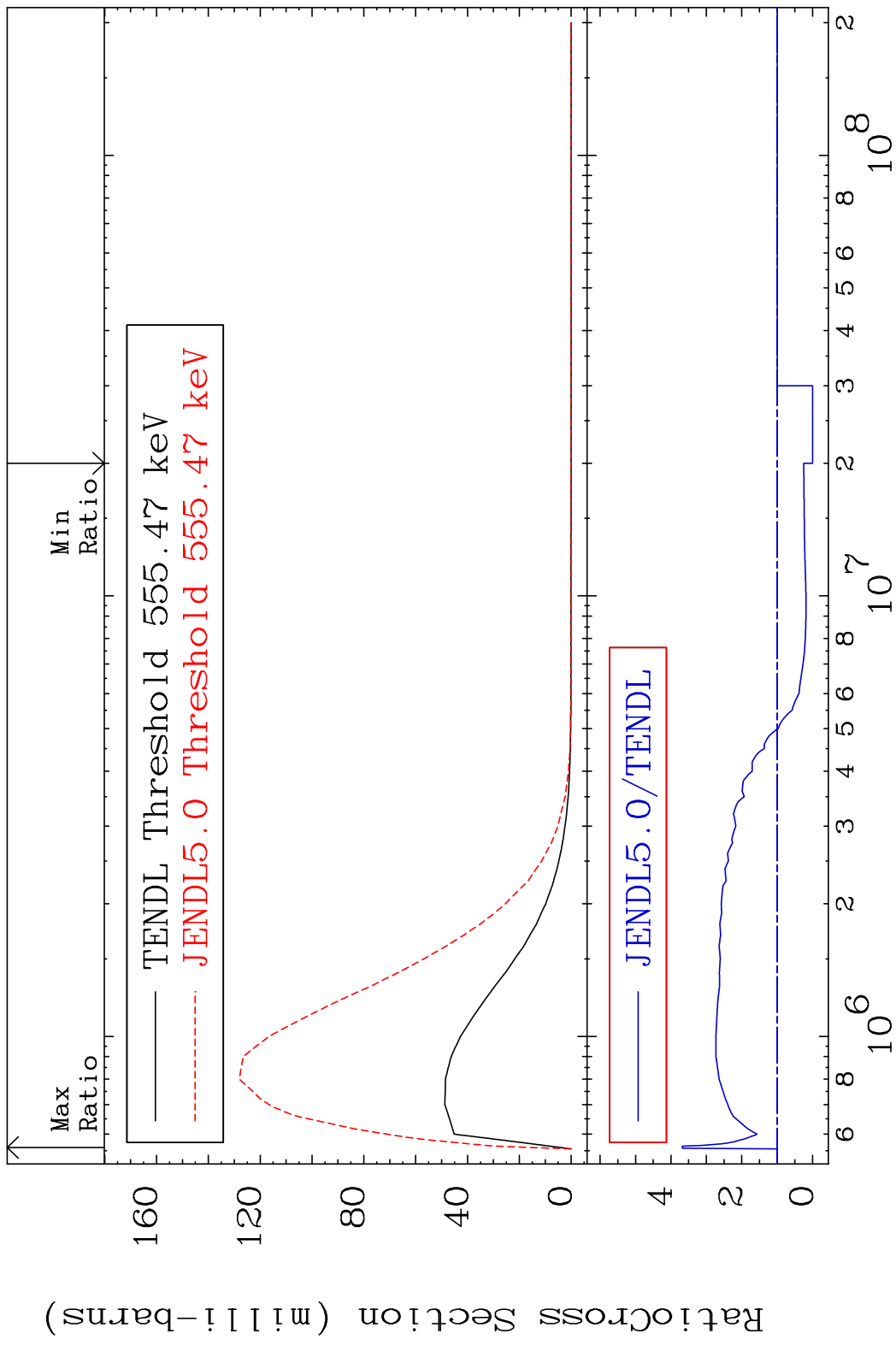
MAT 6719 MT= 64 (n, n') Level 67-Ho-163
 Cross Section -100.0 To 896.4 %



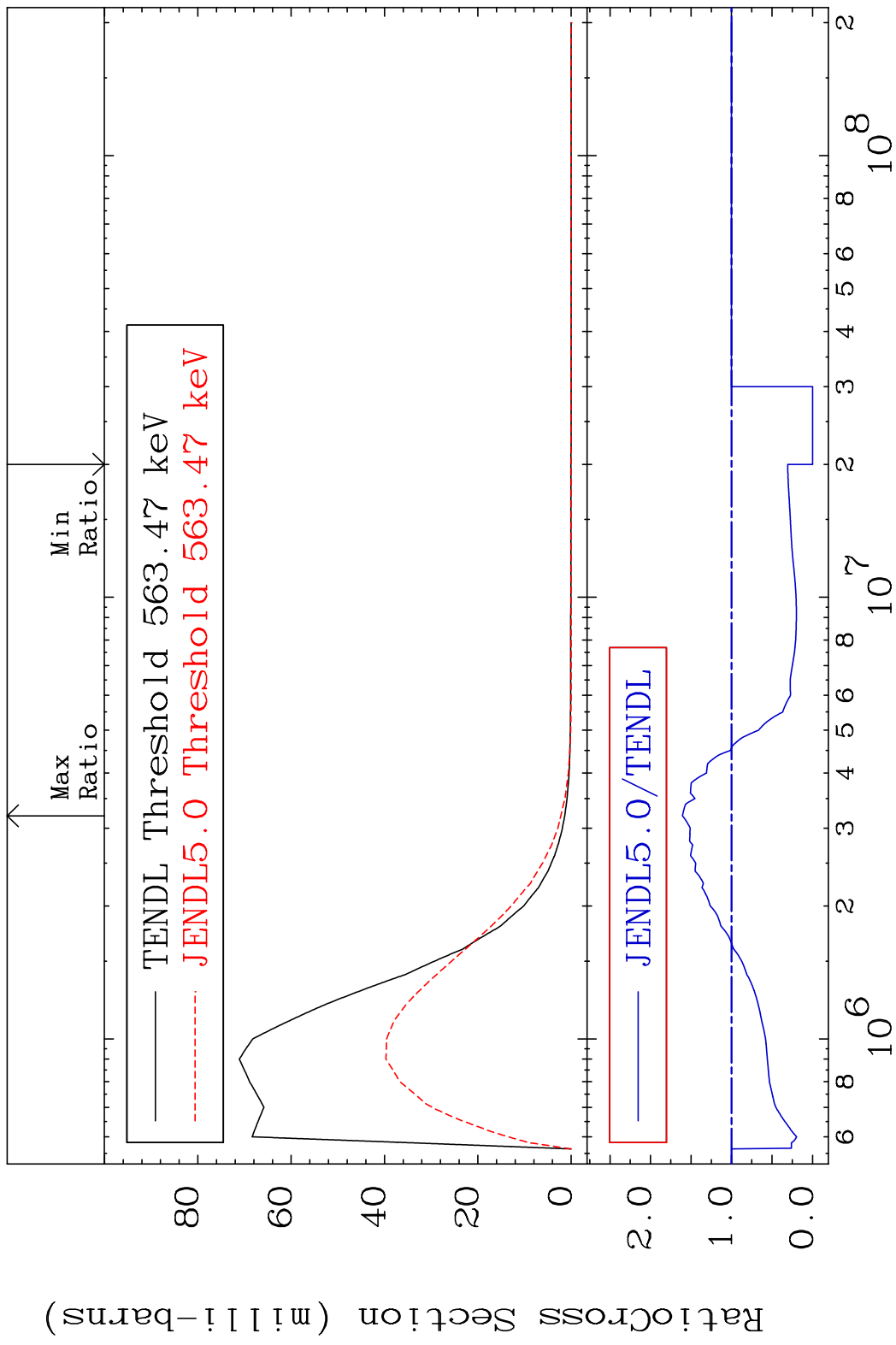
MAT 6719 MT= 65 (n, n') Level 67-Ho-163
 Cross Section -100.0 To 5560. %



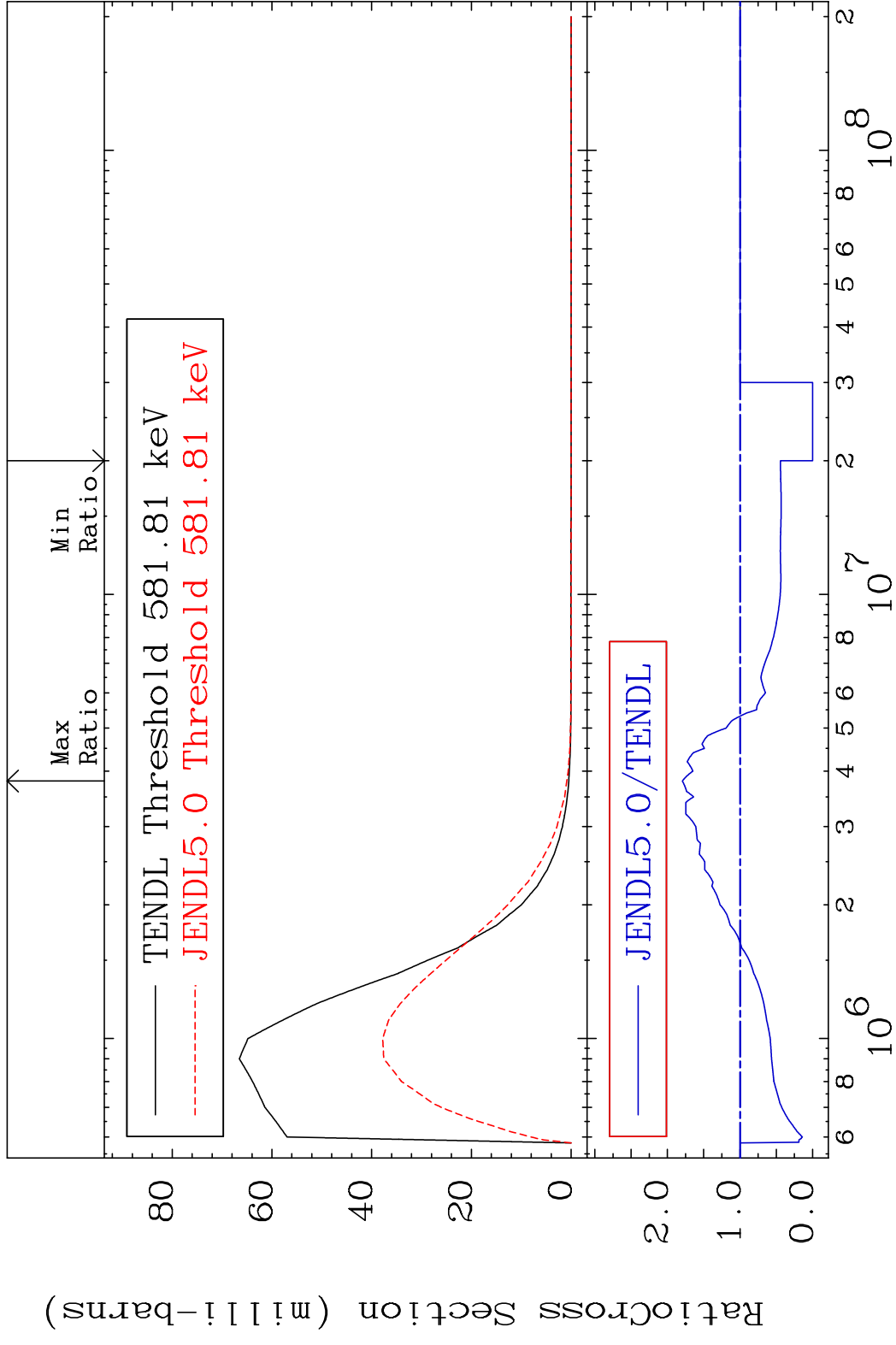
MAT 6719 MT= 66 (n, n') Level 67-Ho-163
 Cross Section -100.0 To 267.8 %



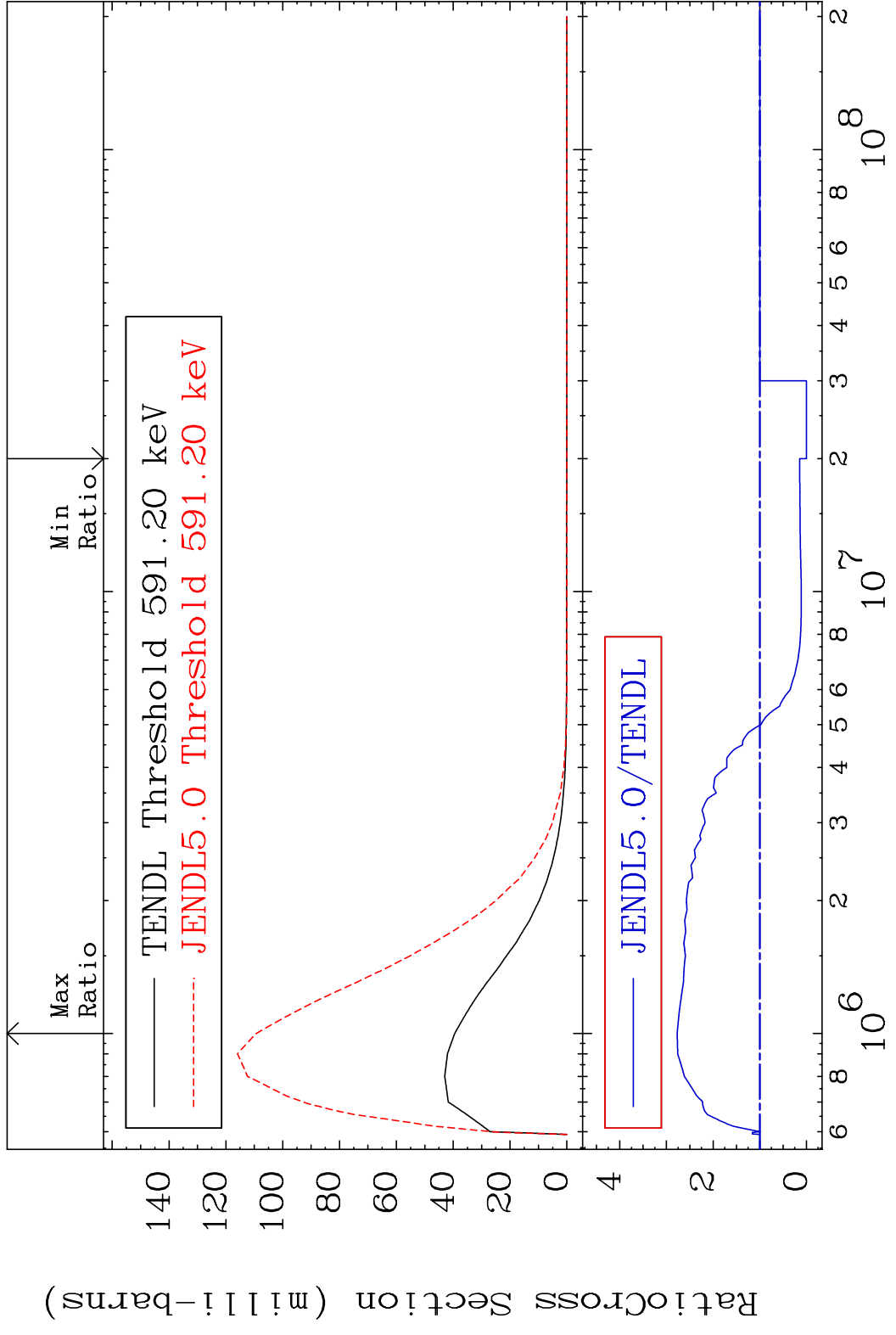
MAT 6719 MT= 67 (n, n') Level 67-Ho-163
 Cross Section -100.0 To 60.70 %



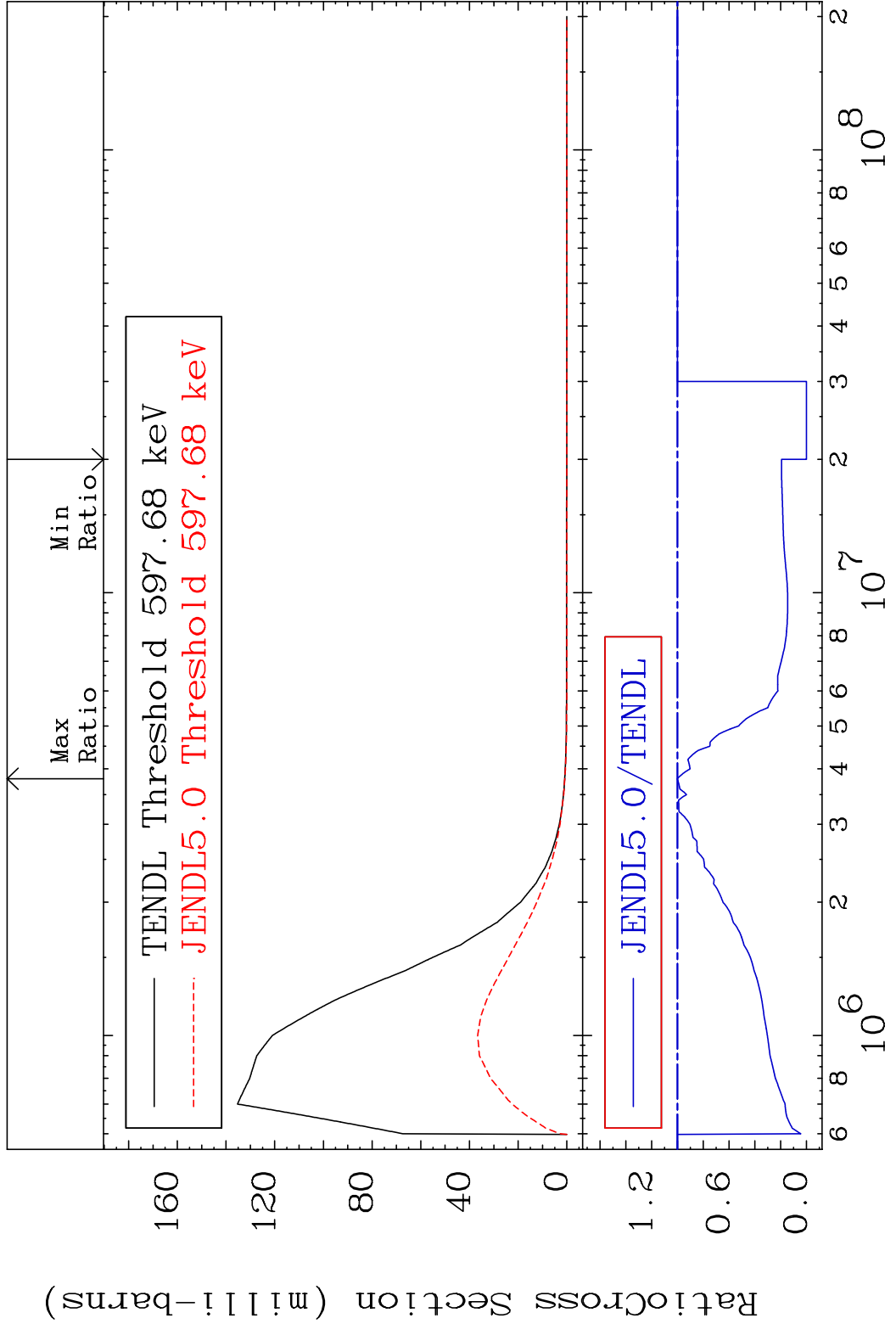
MAT 6719 MT= 68 (n, n') Level 67-Ho-163
 Cross Section -100.0 To 79.43 %



MAT 6719 MT= 69 (n, n') Level 67-Ho-163
 Cross Section -100.0 To 177.0 %

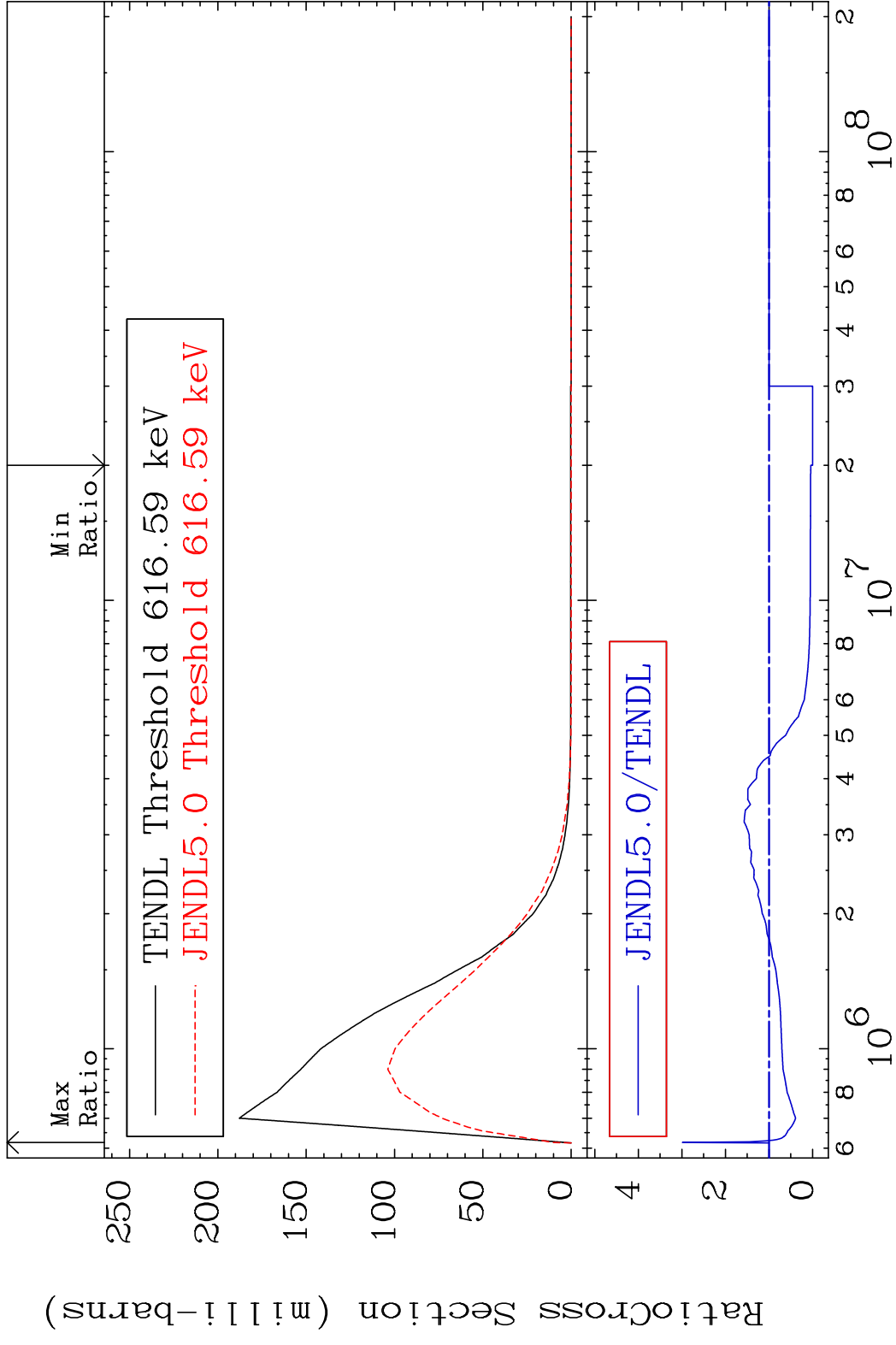


MAT 6719 MT= 70 (n, n') Level 67-Ho-163
 Cross Section -100.0 To 0.199 %

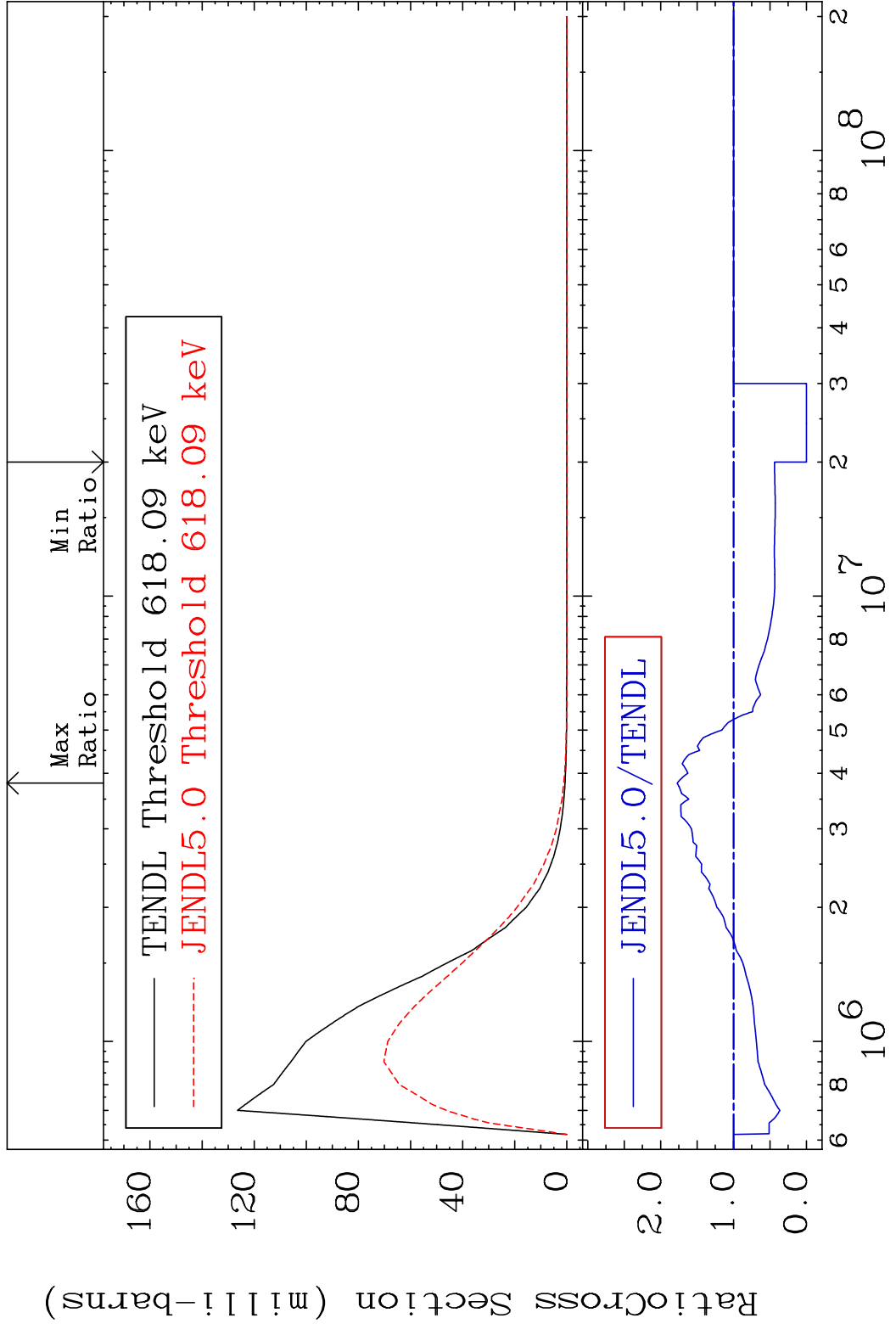


32 Incident Energy (eV) 67-Ho-163

MAT 6719 MT= 71 (n, n') Level 67-Ho-163
 Cross Section -100.0 To 198.9 %



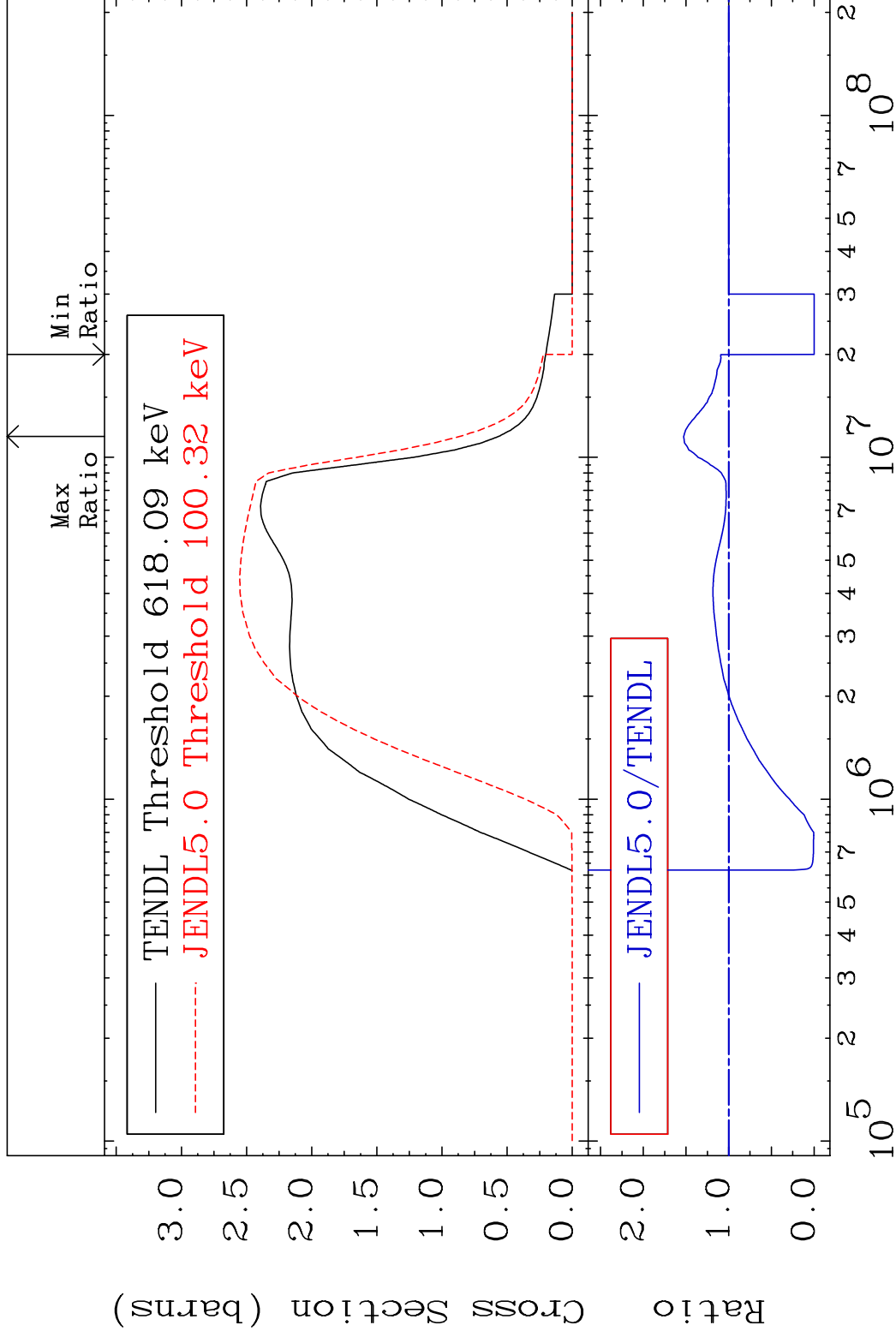
MAT 6719 MT= 72 (n, n') Level 67-Ho-163
 Cross Section -100.0 To 77.30 %



MAT 6719

(n, n') Continuum
Cross Section -100.0 To 52.75 %

67-Ho-163



35

Incident Energy (eV)

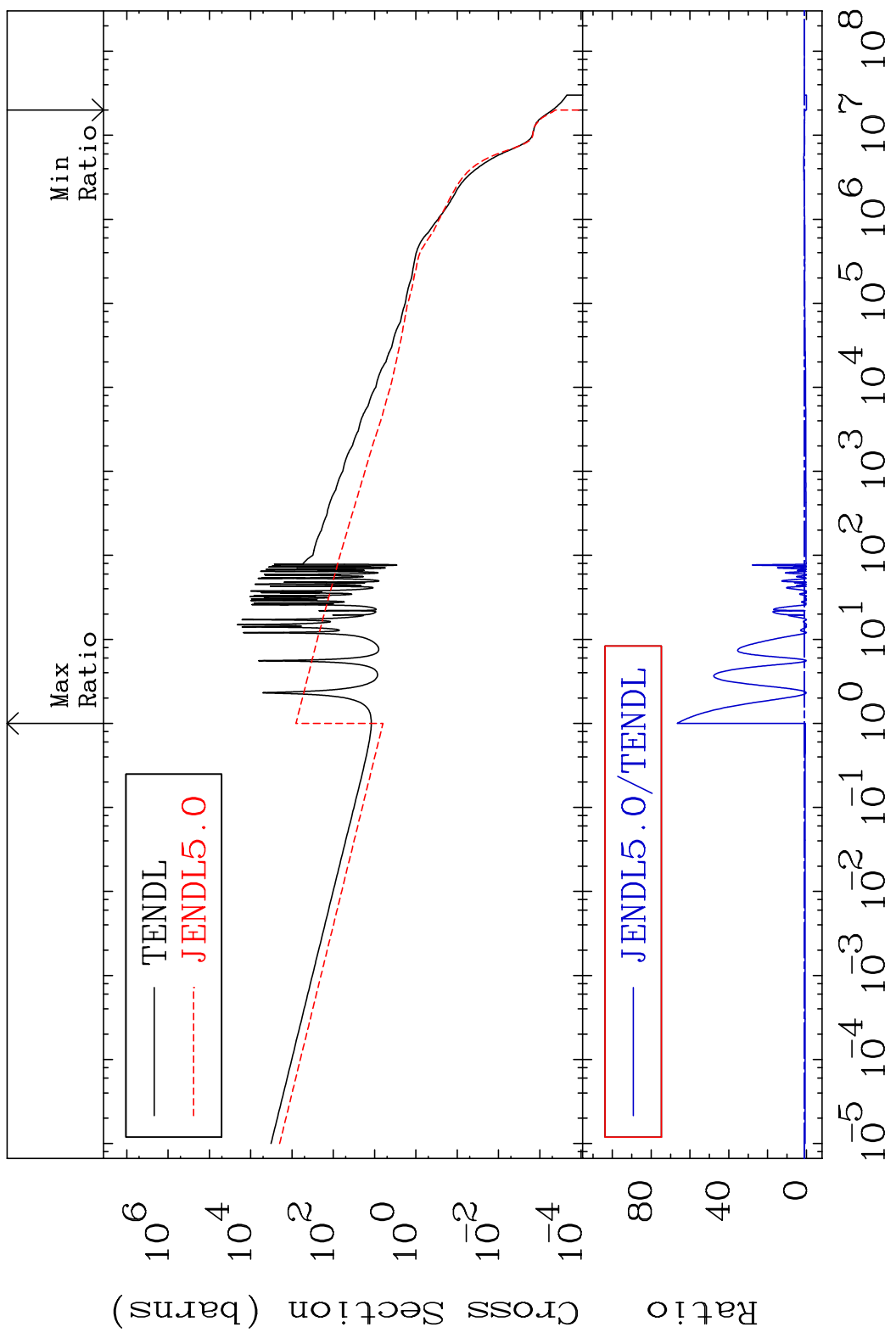
67-Ho-163

MAT 6719

(n, γ)

67-Ho-163

Cross Section -100.0 To 6558. %



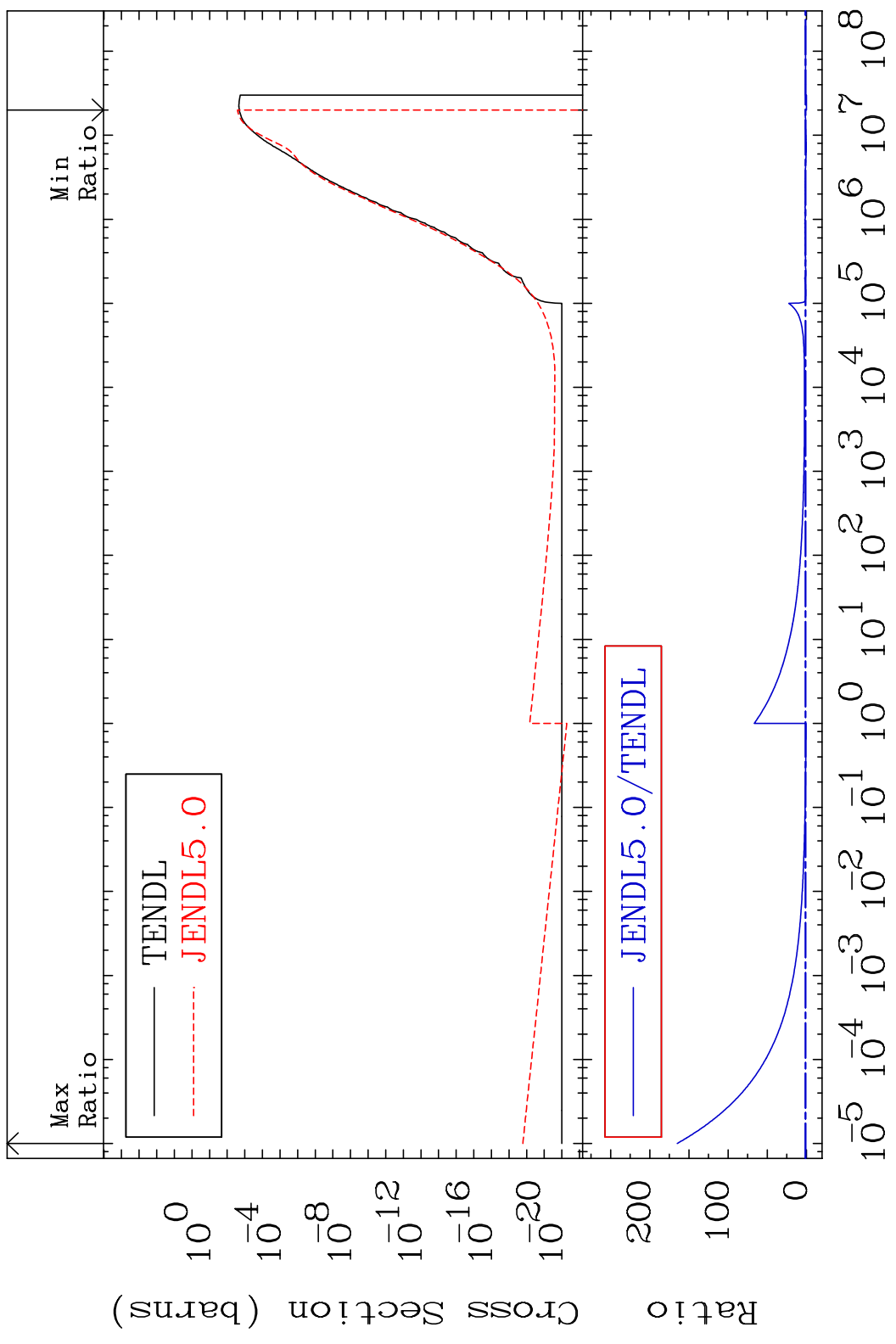
MAT 6719

(n, p)

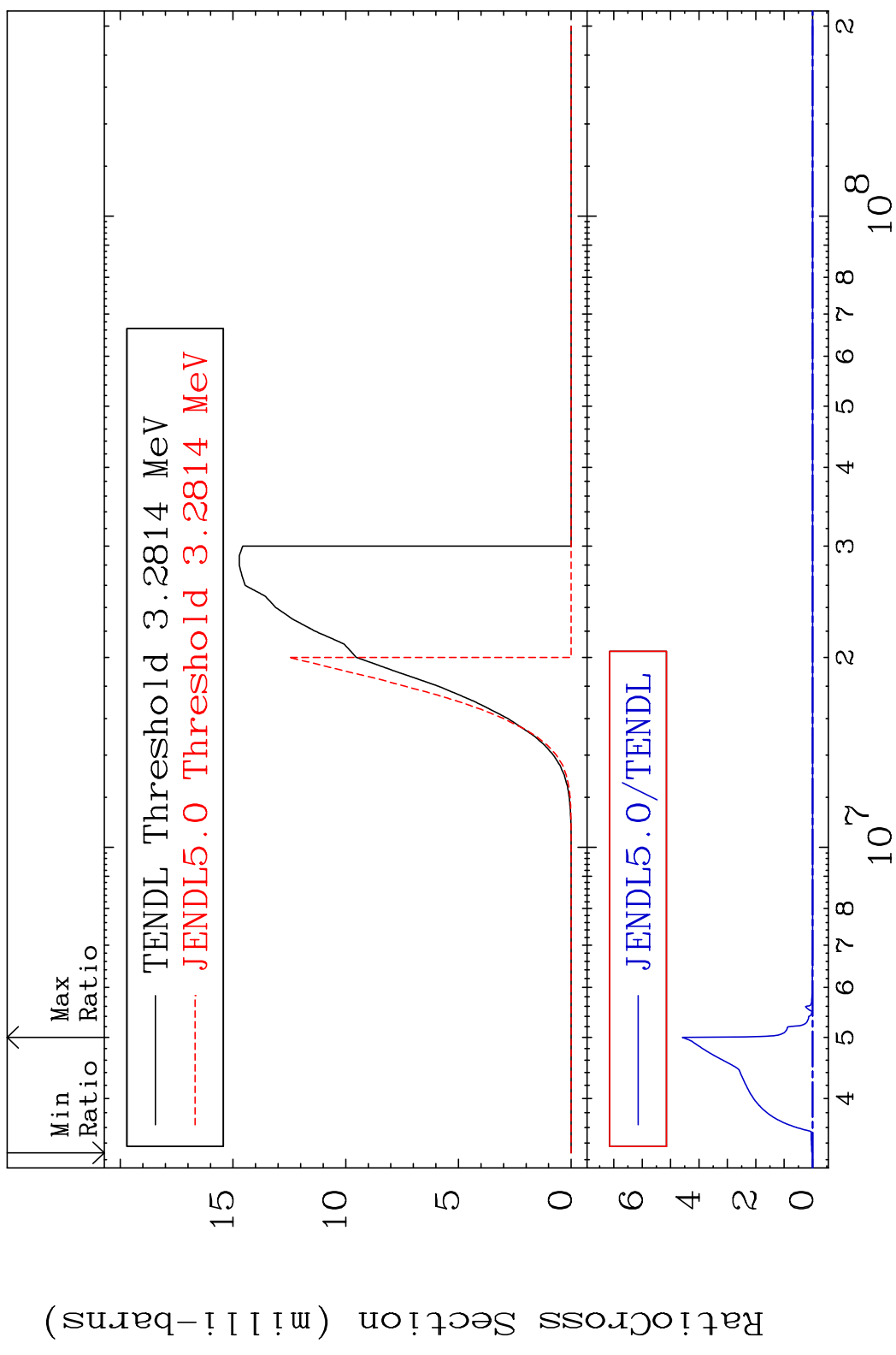
67-Ho-163

Cross Section

-100.0 To 9999. %



Cross Section -100.0 To 9999. %

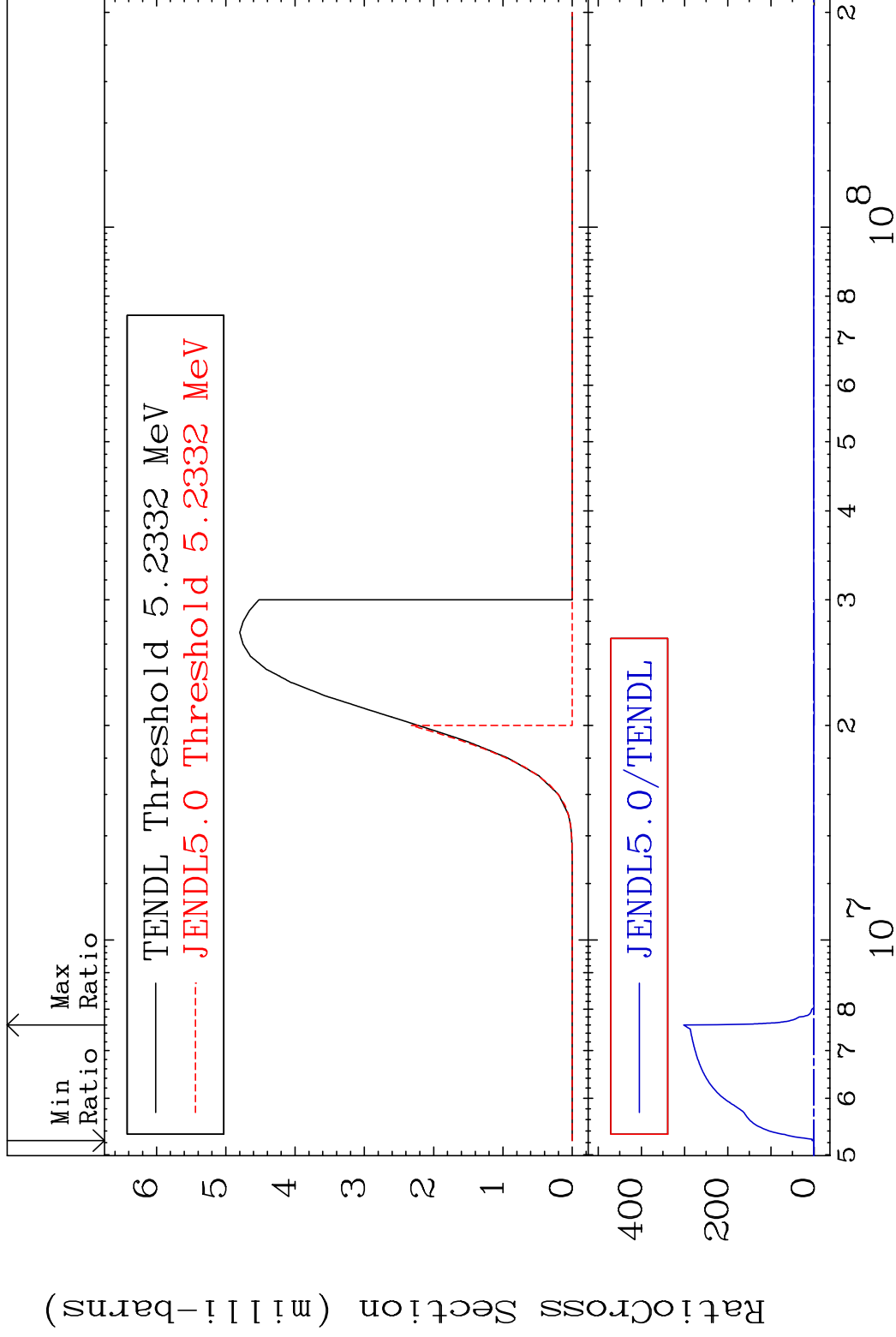


MAT 6719

(n, t)

67-Ho-163

Cross Section -100.0 To 9999. %



39

Incident Energy (eV)

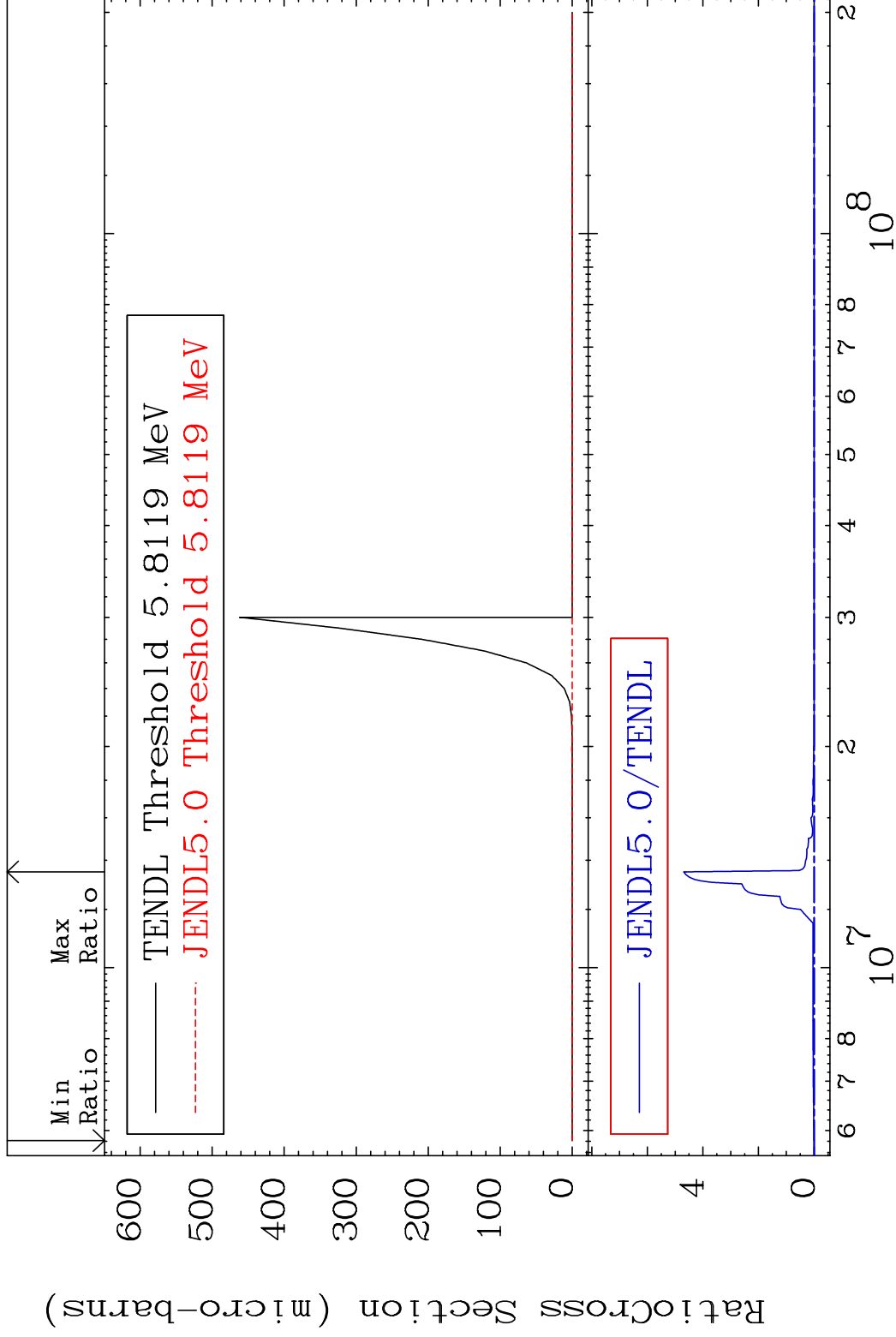
67-Ho-163

MAT 6719

(n, He-3)

67-Ho-163

Cross Section -100.0 To 9999. %



40

Incident Energy (eV)

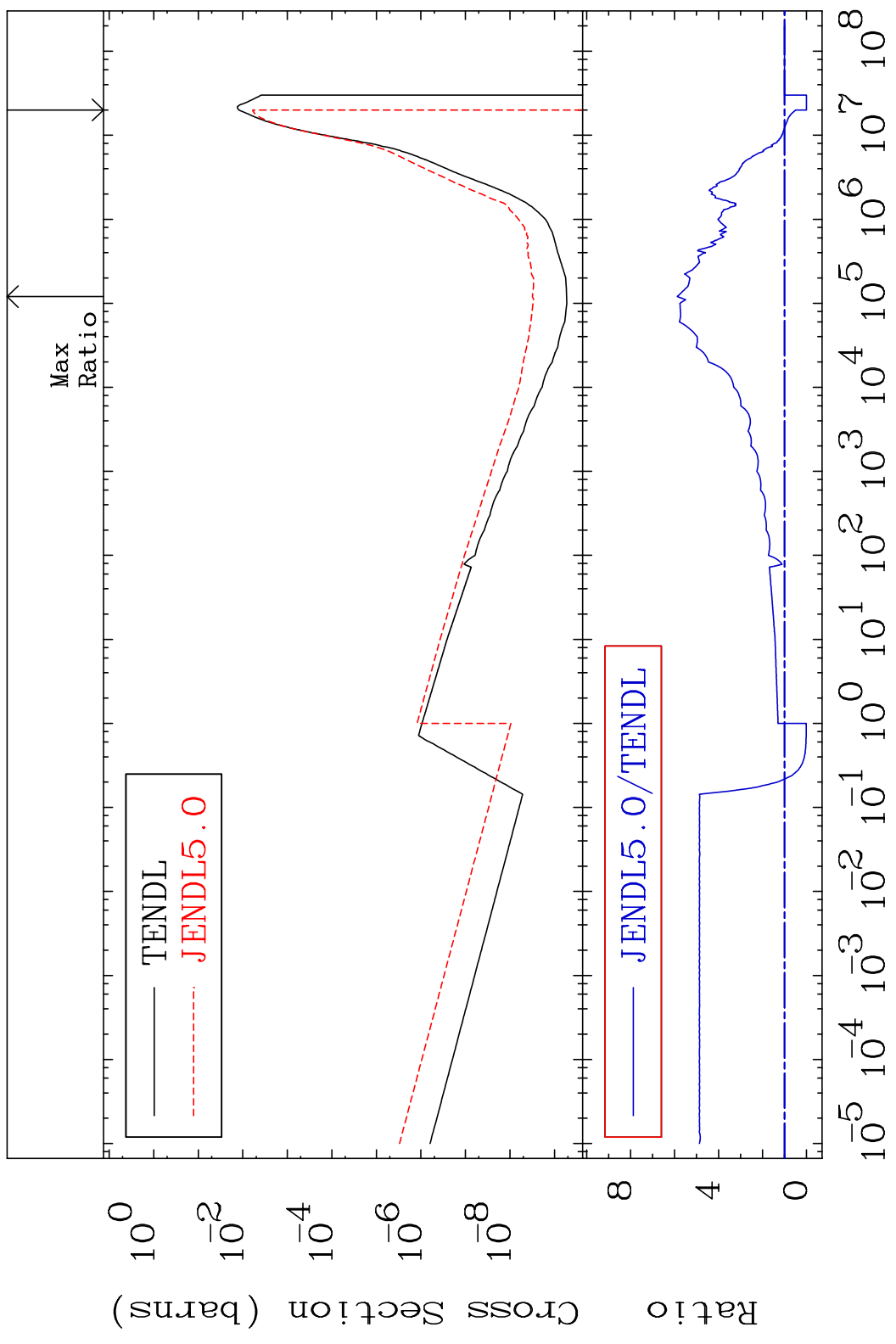
67-Ho-163

MAT 6719

(n, α)

67-Ho-163

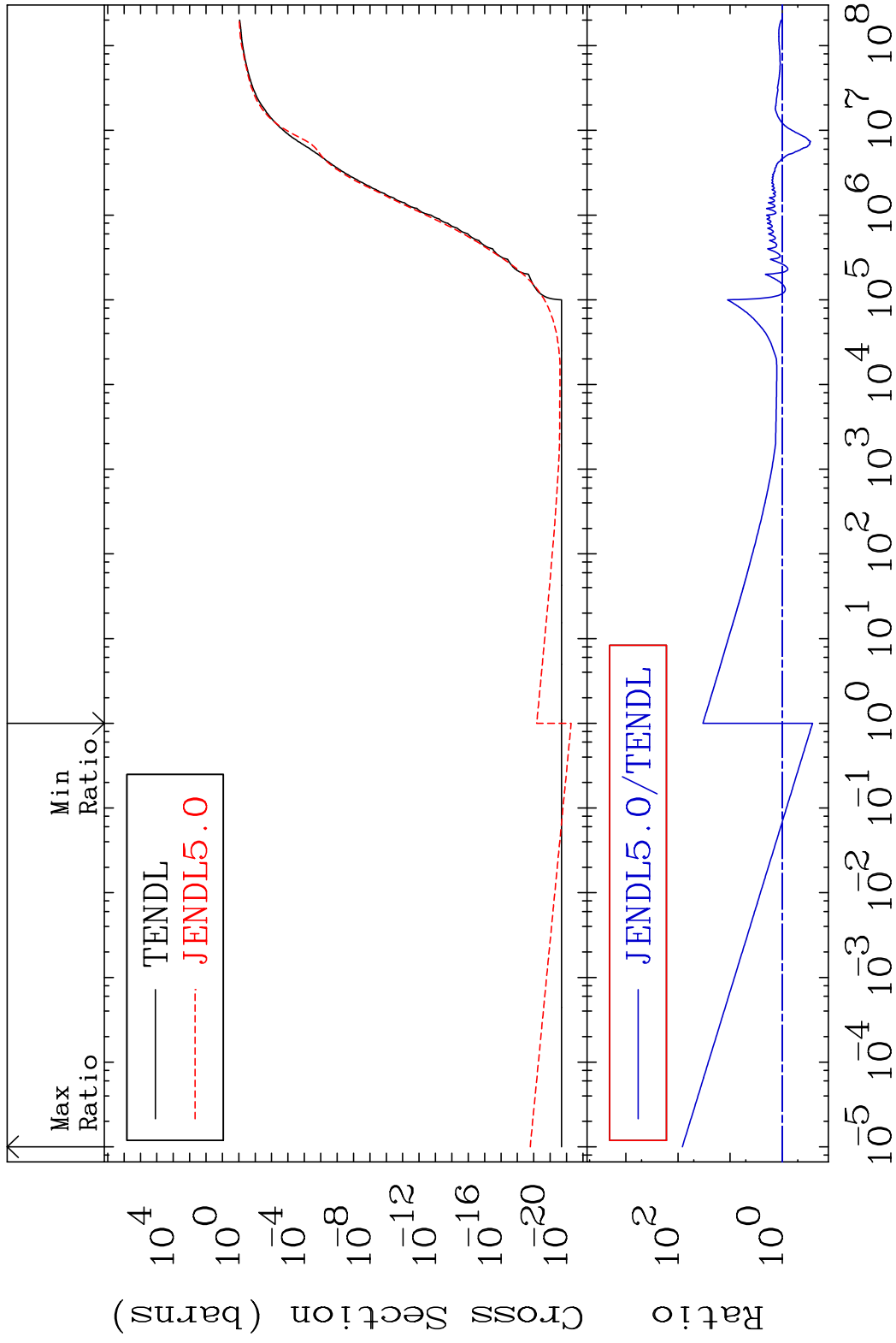
Cross Section -100.0 To 488.2 %



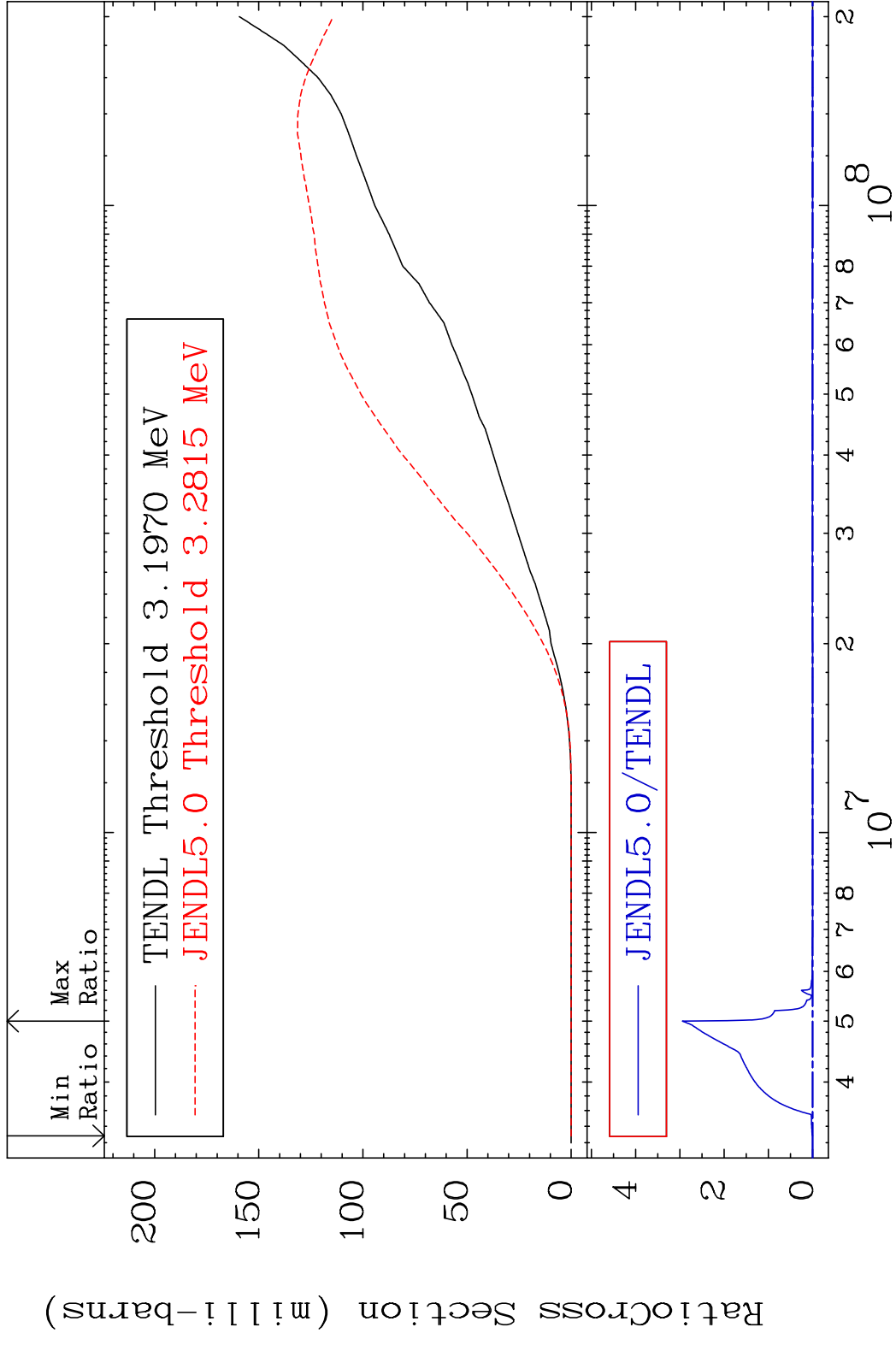
41

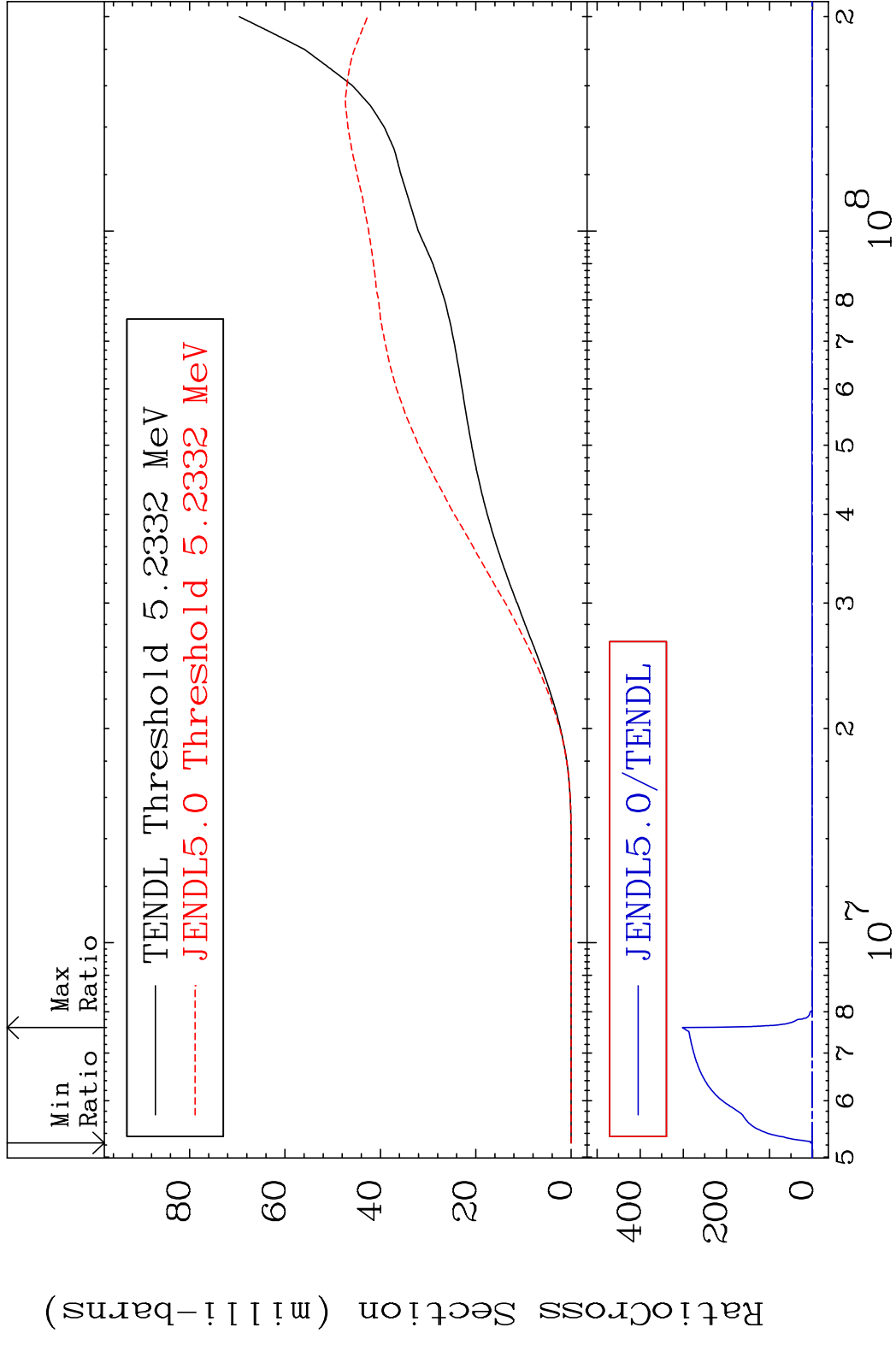
Incident Energy (eV)

67-Ho-163



Cross Section -100.0 To 9999. %



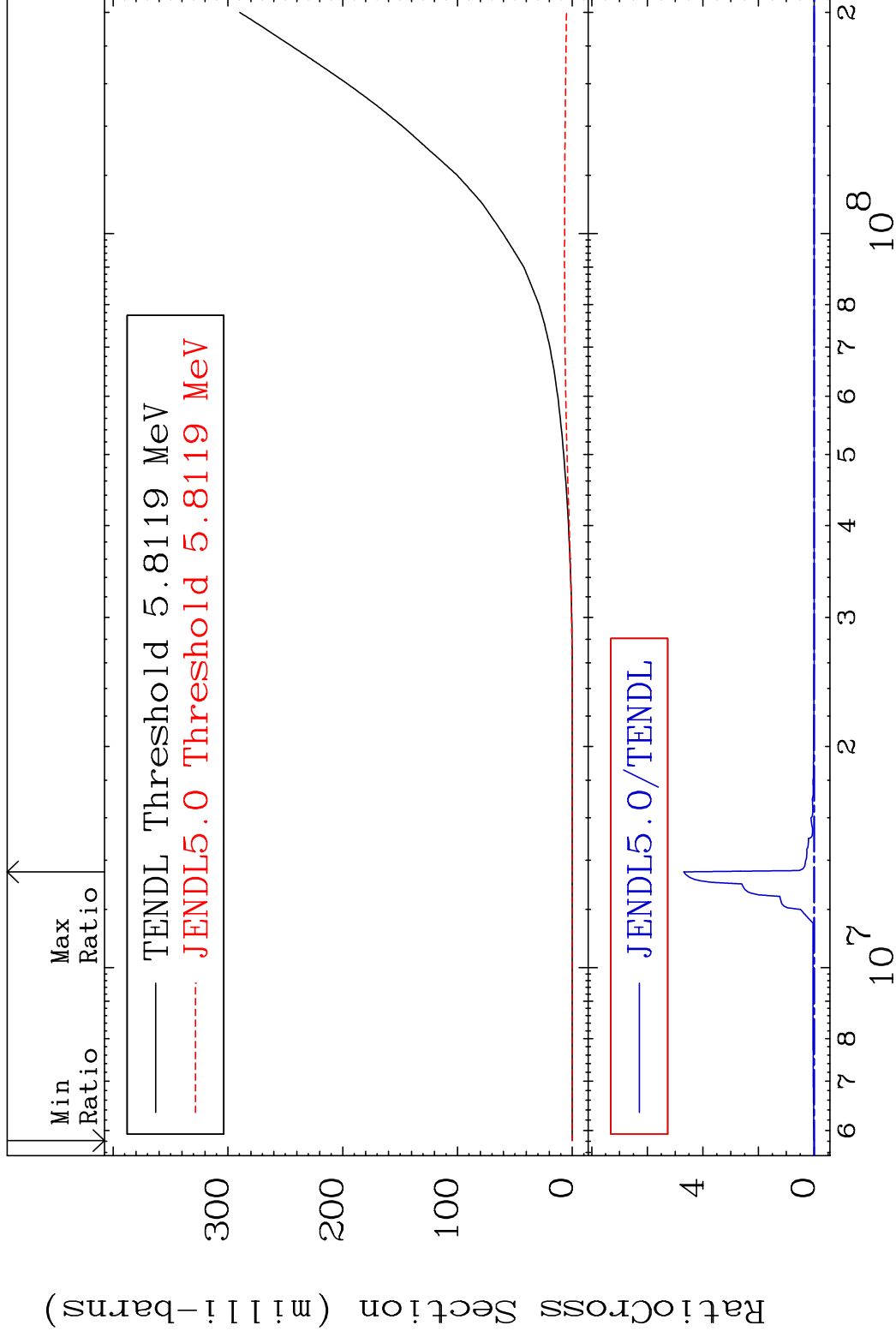


MAT 6719

He-3 Production

67-Ho-163

Cross Section -100.0 To 9999. %



45

Incident Energy (eV)

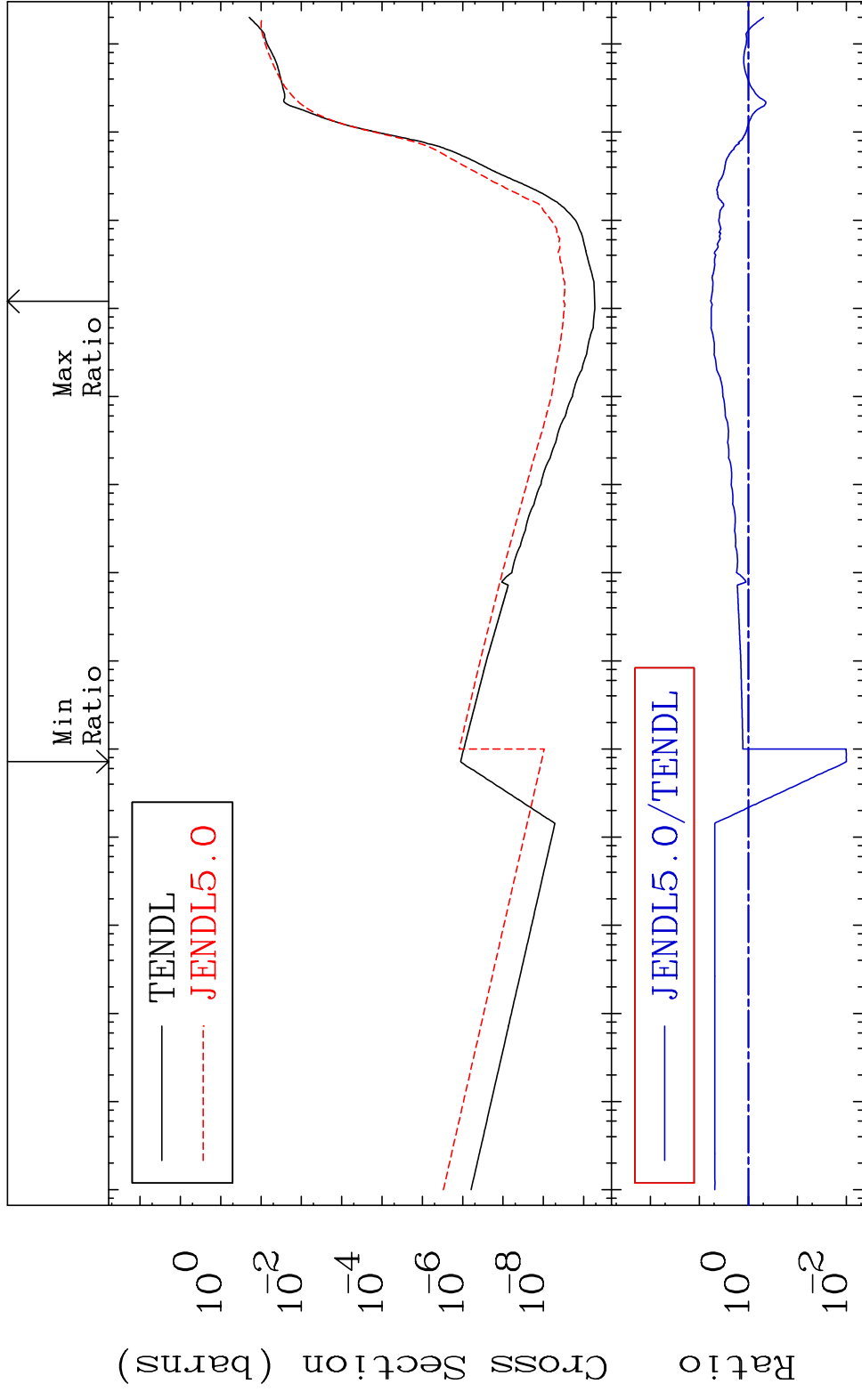
67-Ho-163

MAT 6719

He-4 Production

67-Ho-163

Cross Section -99.00 To 488.2 %

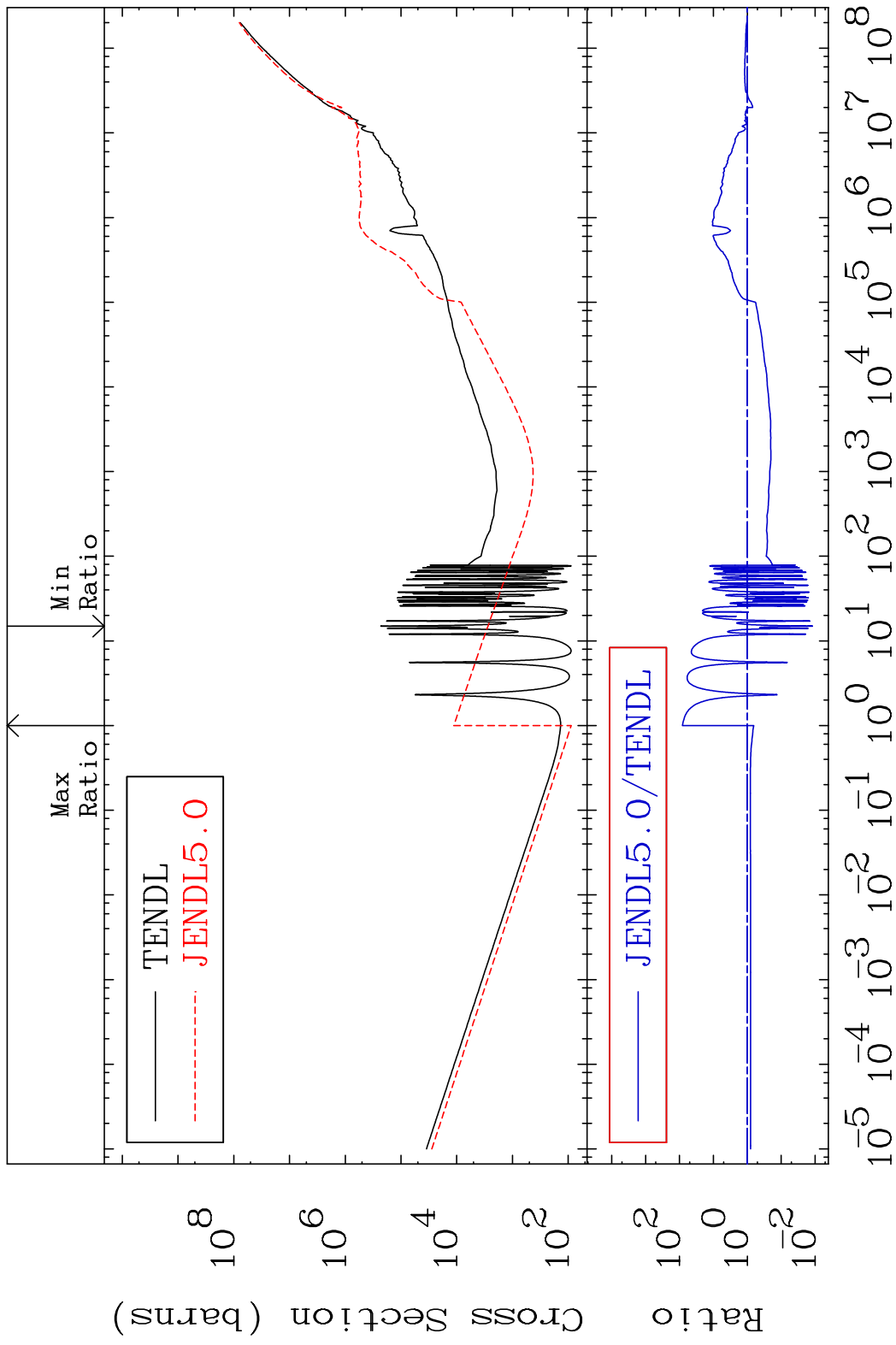


Ratio

Cross Section (barns)

Incident Energy (eV)

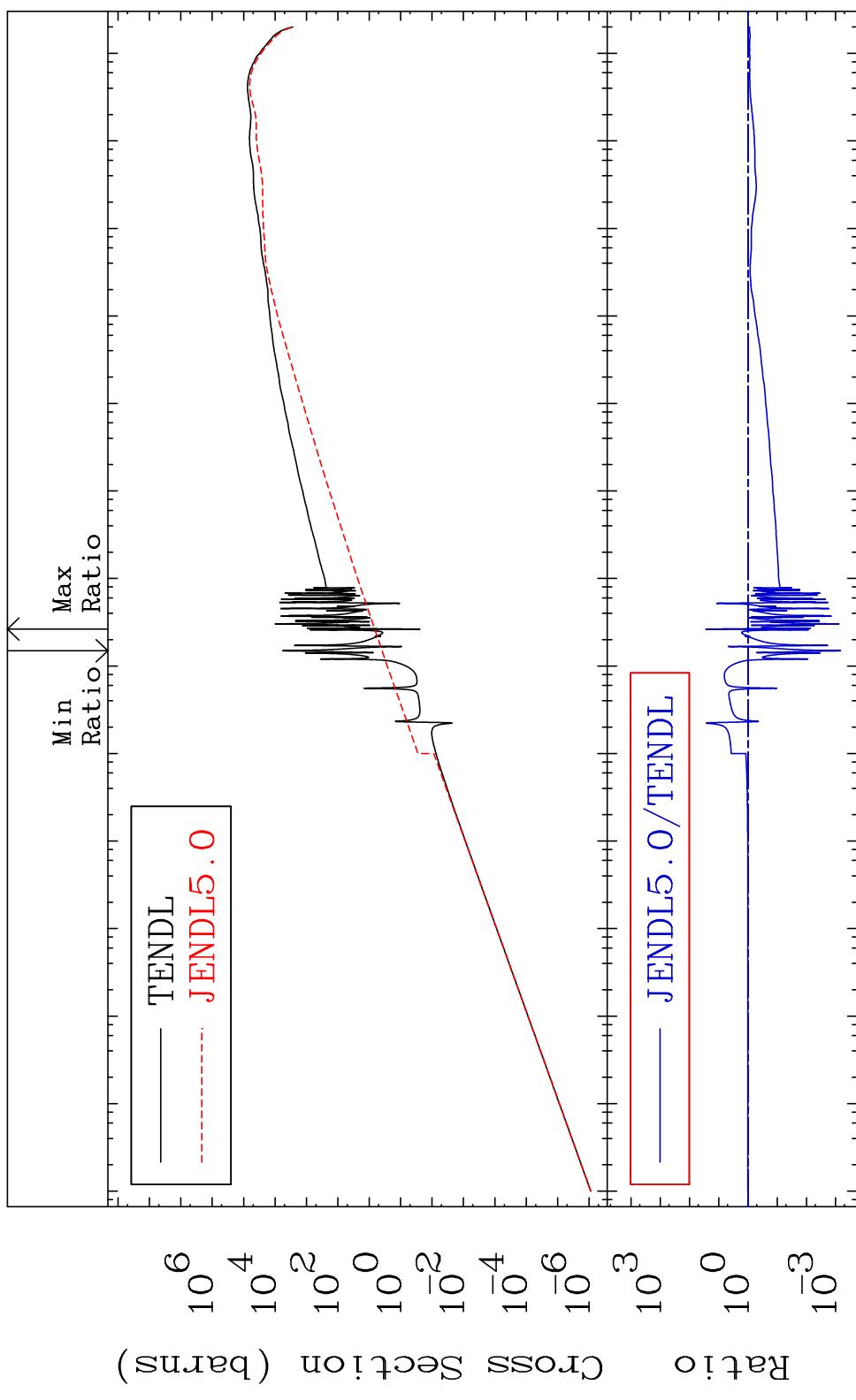
MAT 6719 Kerma total (eV-barns) 67-Ho-163
 Cross Section -98.82 To 8130. %



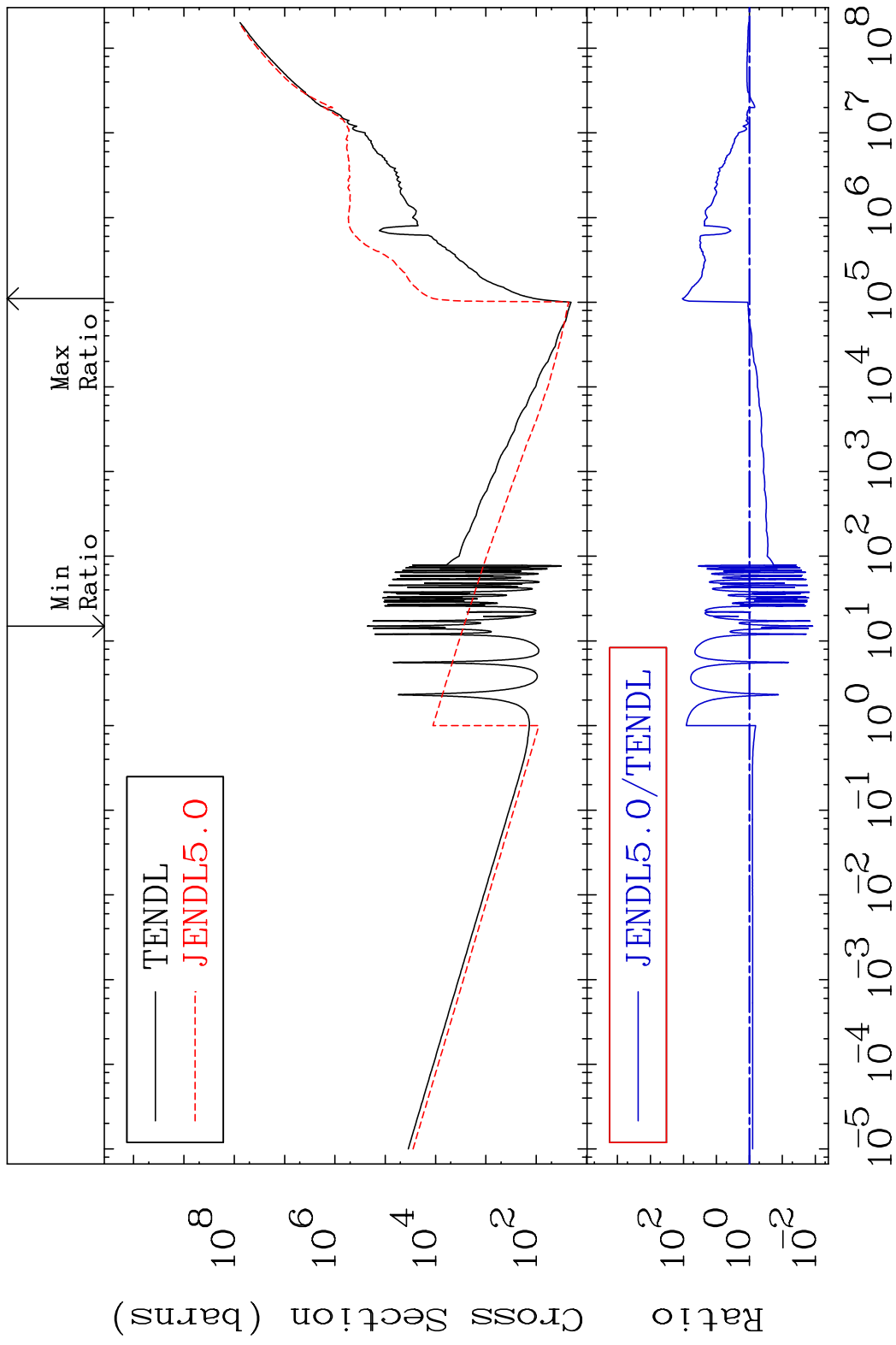
47 Incident Energy (eV) 67-Ho-163

MAT 6719

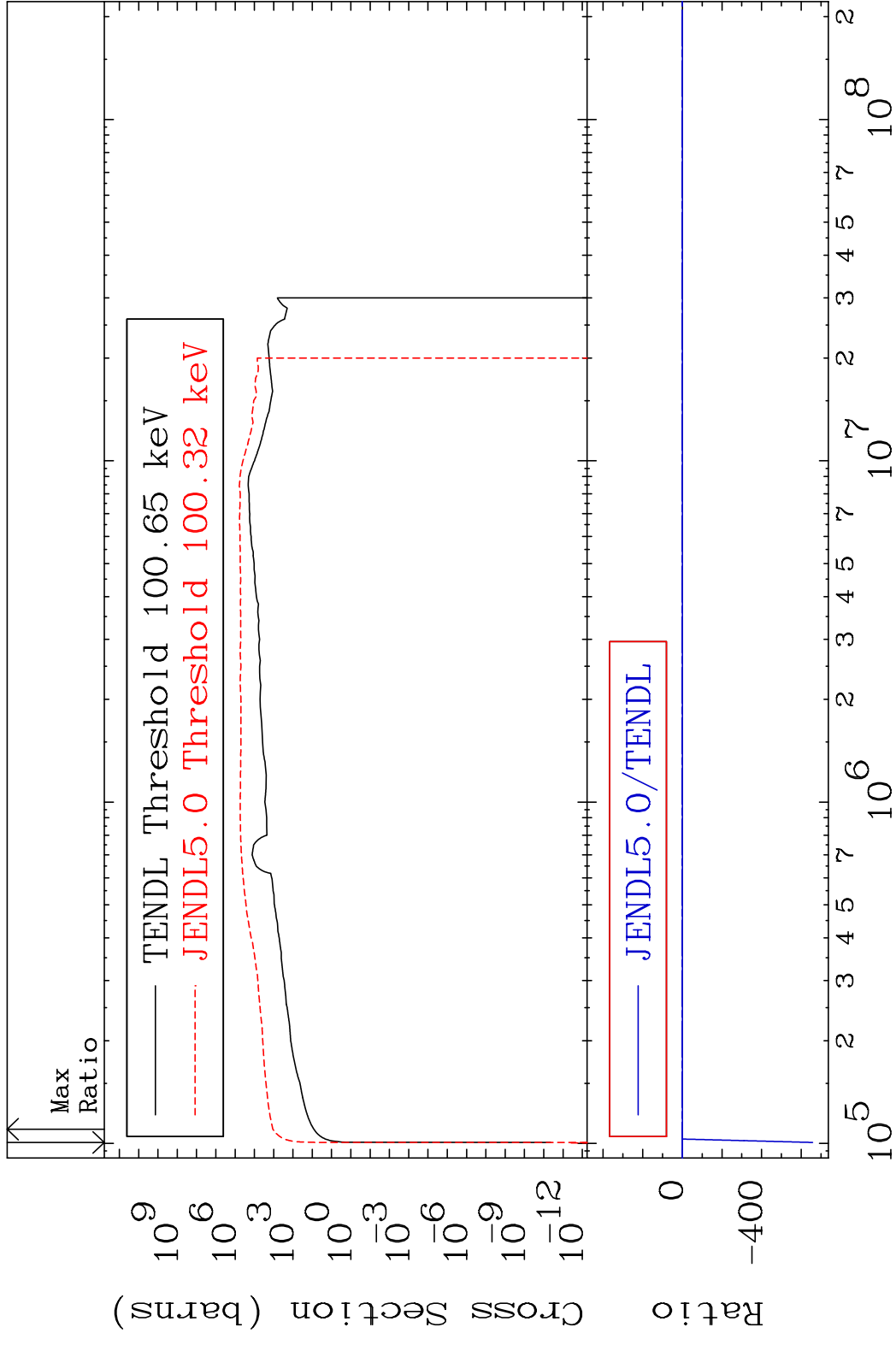
Kerma elastic Cross Section -99.93 To 2675. %
67-Ho-163



MAT 6719 Kerma non-elastic (all but mt2) 67-Ho-163
 Cross Section -98.79 To 9999. %

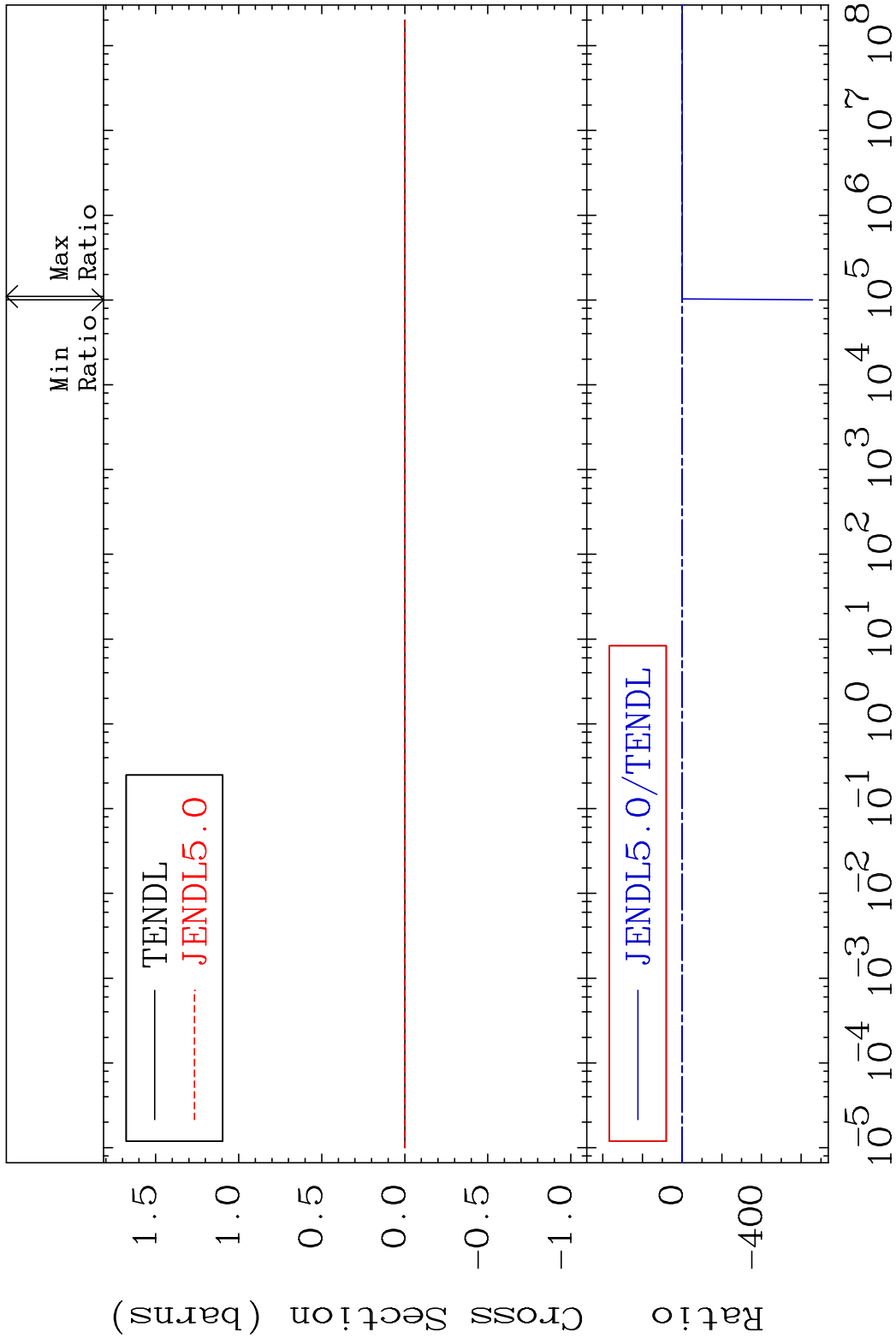


MAT 6719 Kerma inelastic (mt51-91) 67-Ho-163
 Cross Section -9999. To 9999. %



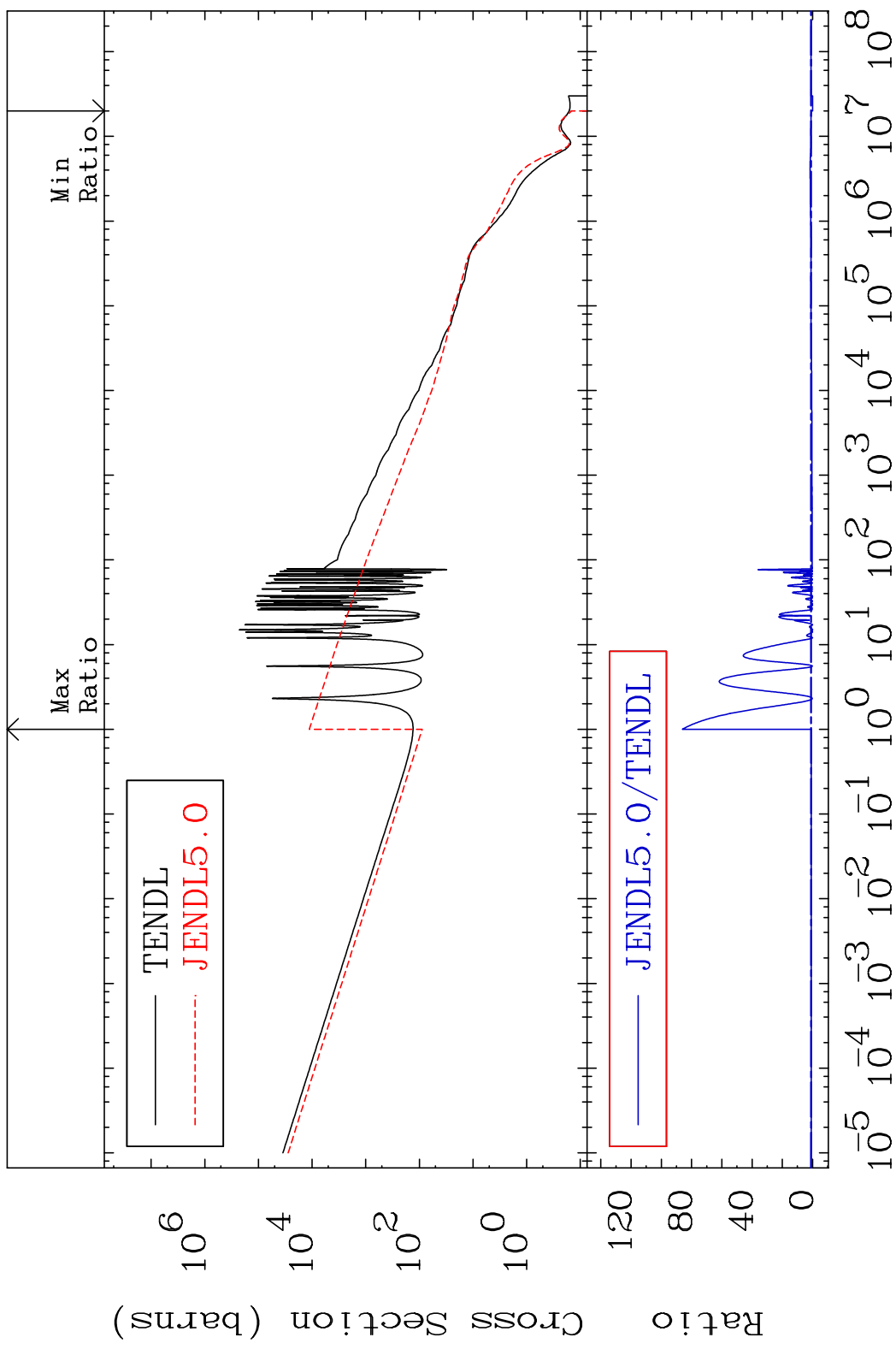
50 Incident Energy (eV) 67-Ho-163

MAT 6719 Kerma fission (mt18 or mt19-20-21-38) 67-Ho-163
 Cross Section -9999. To 9999. %

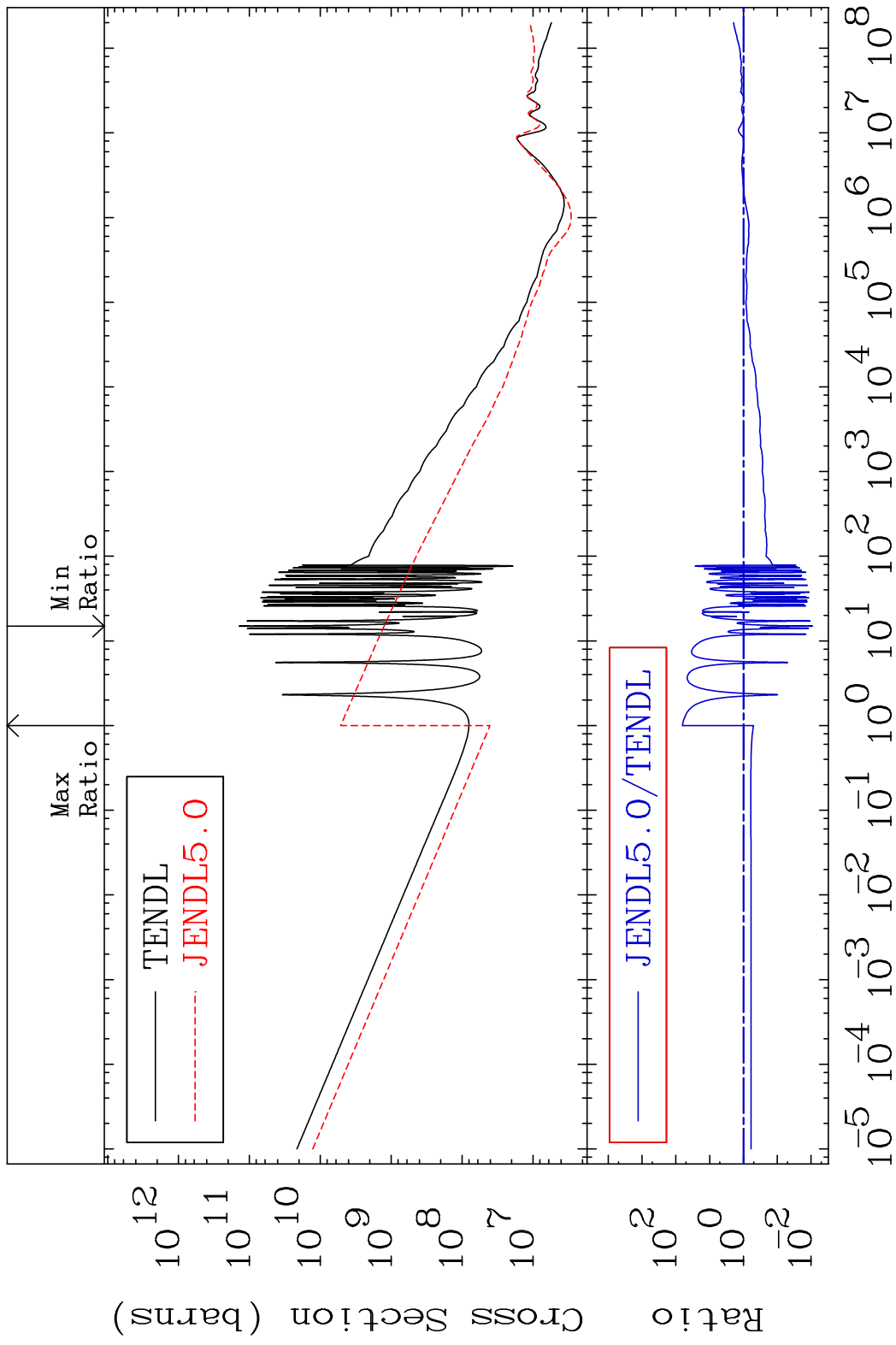


MAT 6719

Kerma capture (mt102) 67-Ho-163
Cross Section -100.0 To 8510. %

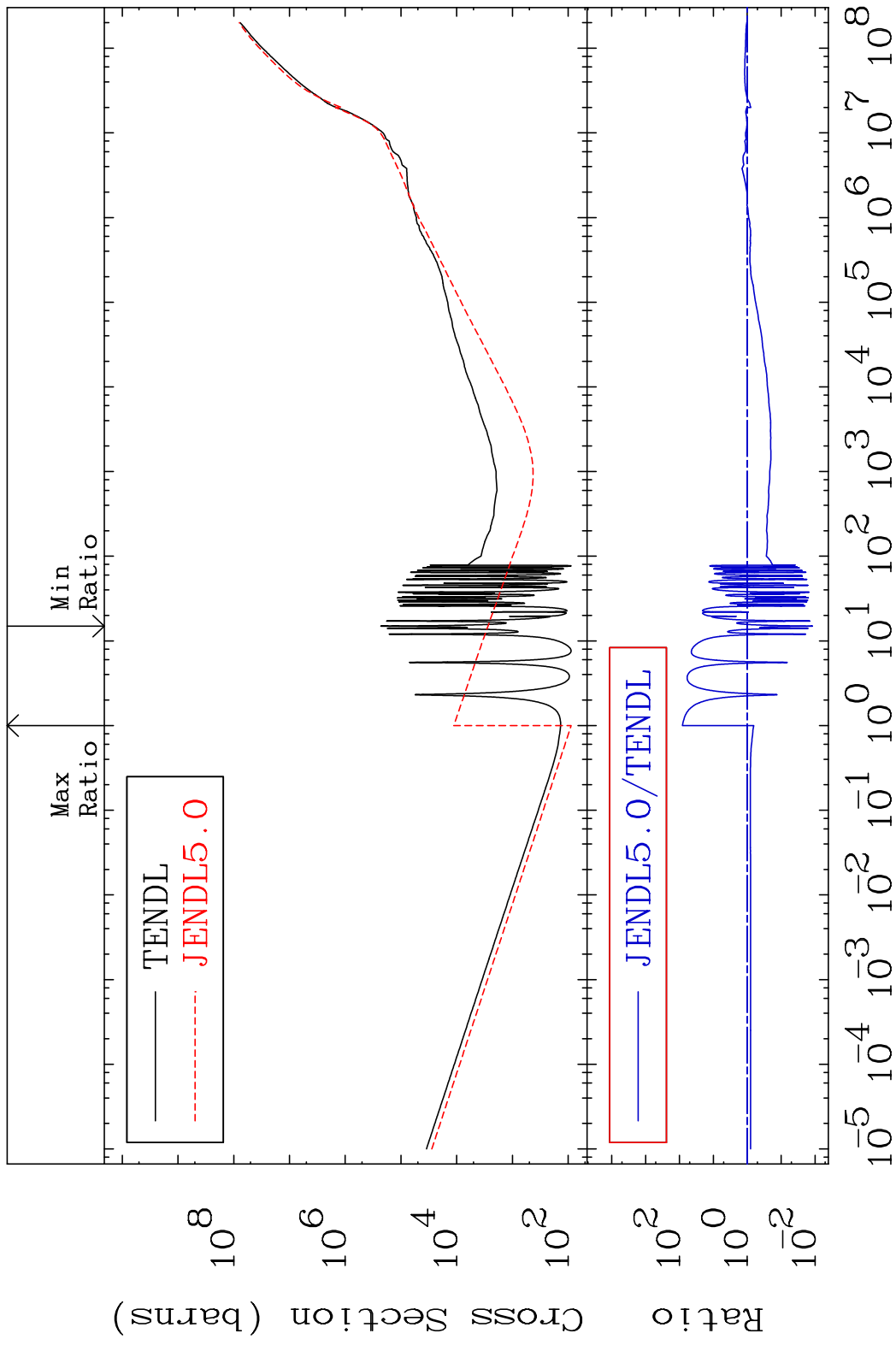


MAT 6719 Total photon (eV-barns) 67-Ho-163
 Cross Section -99.09 To 6336. %

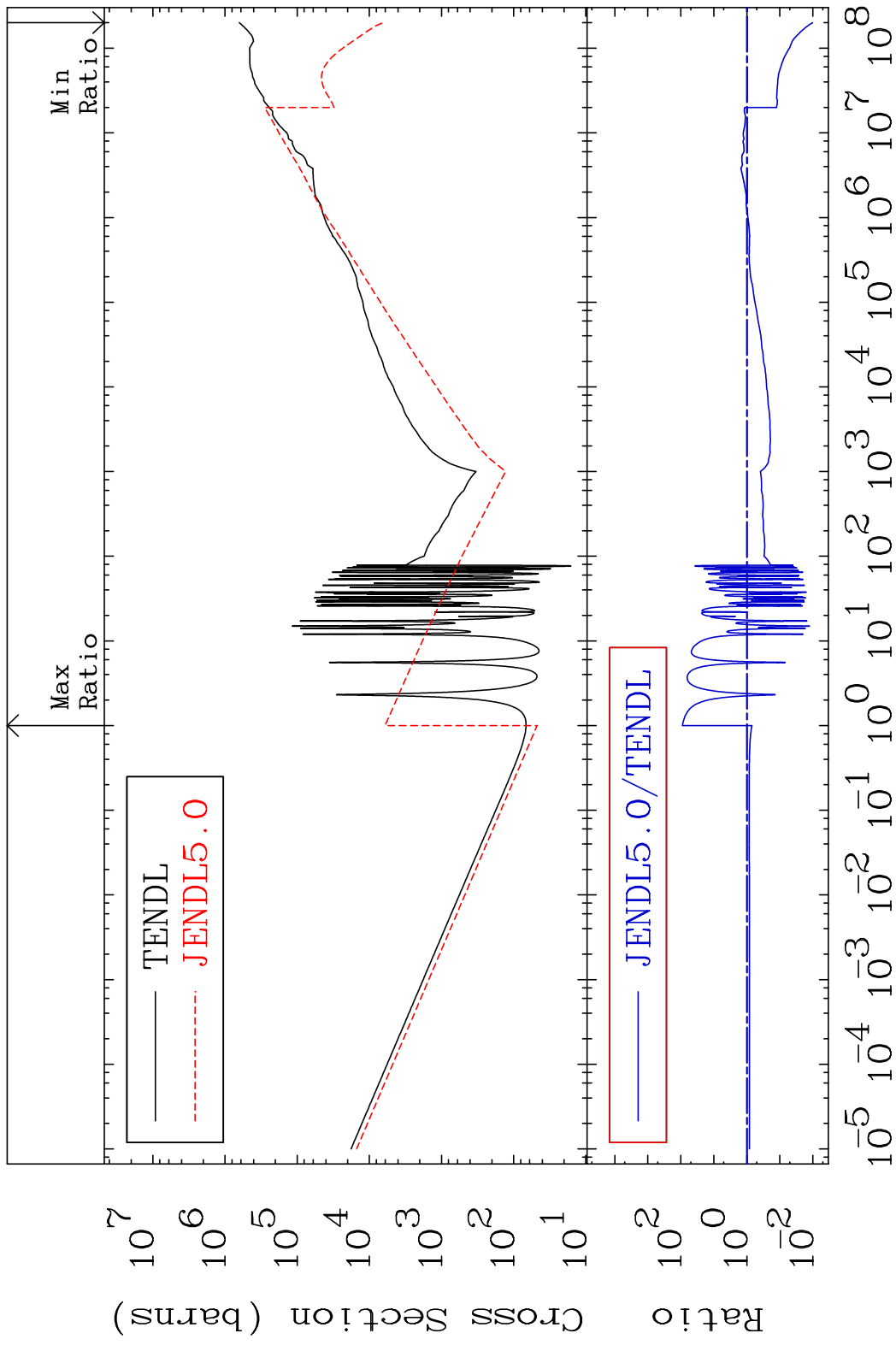


53 Incident Energy (eV) 67-Ho-163

MAT 6719 Total kinematic kerma (high limit) 67-Ho-163
 Cross Section -98.82 To 8127. %



MAT 6719 Dpa total (eV-barns) 67-Ho-163
 Cross Section -98.98 To 8885. %

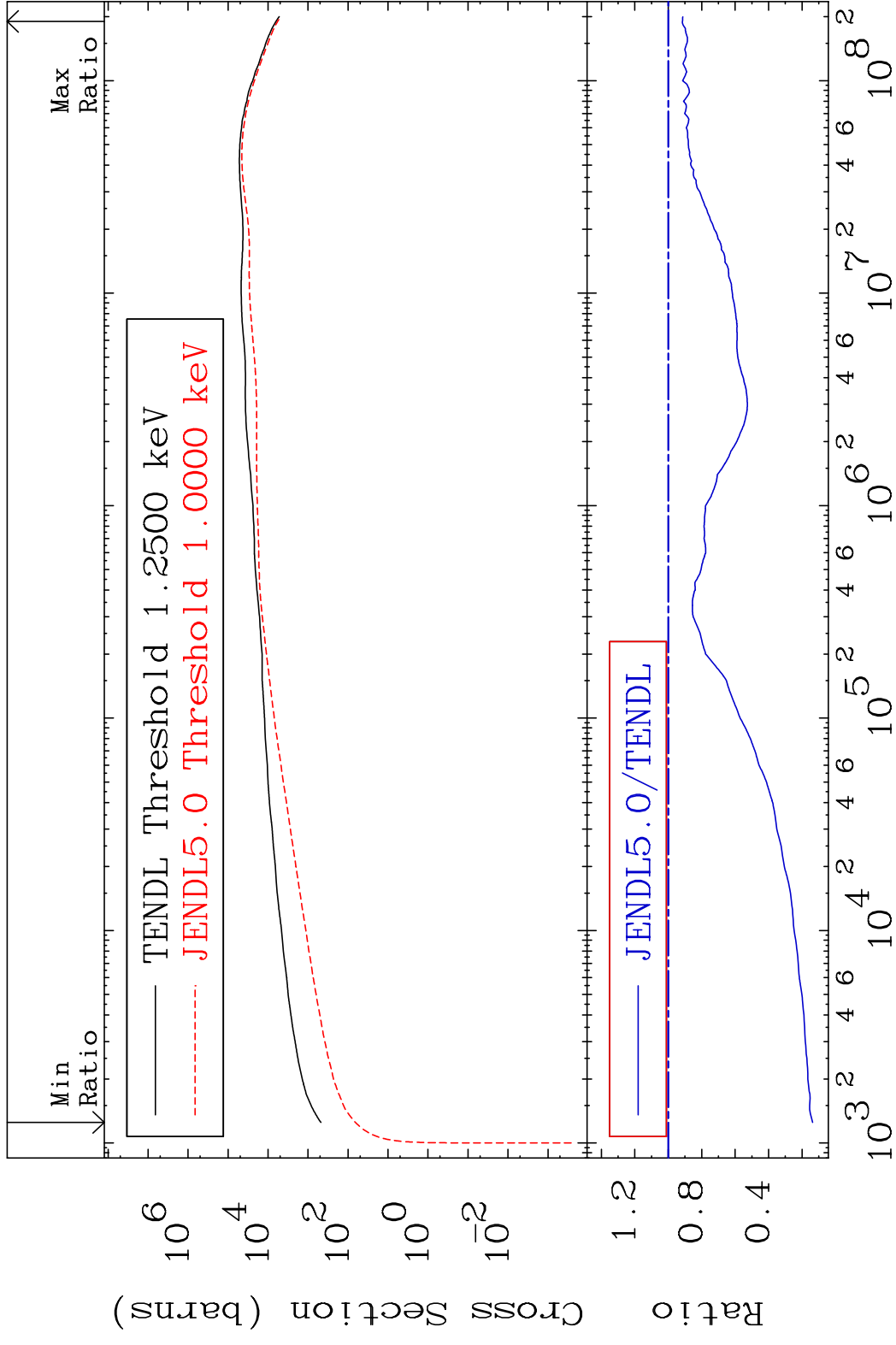


MAT 6719

Dpa elastic (mt2)

67-Ho-163

Cross Section -86.30 To -8.433%

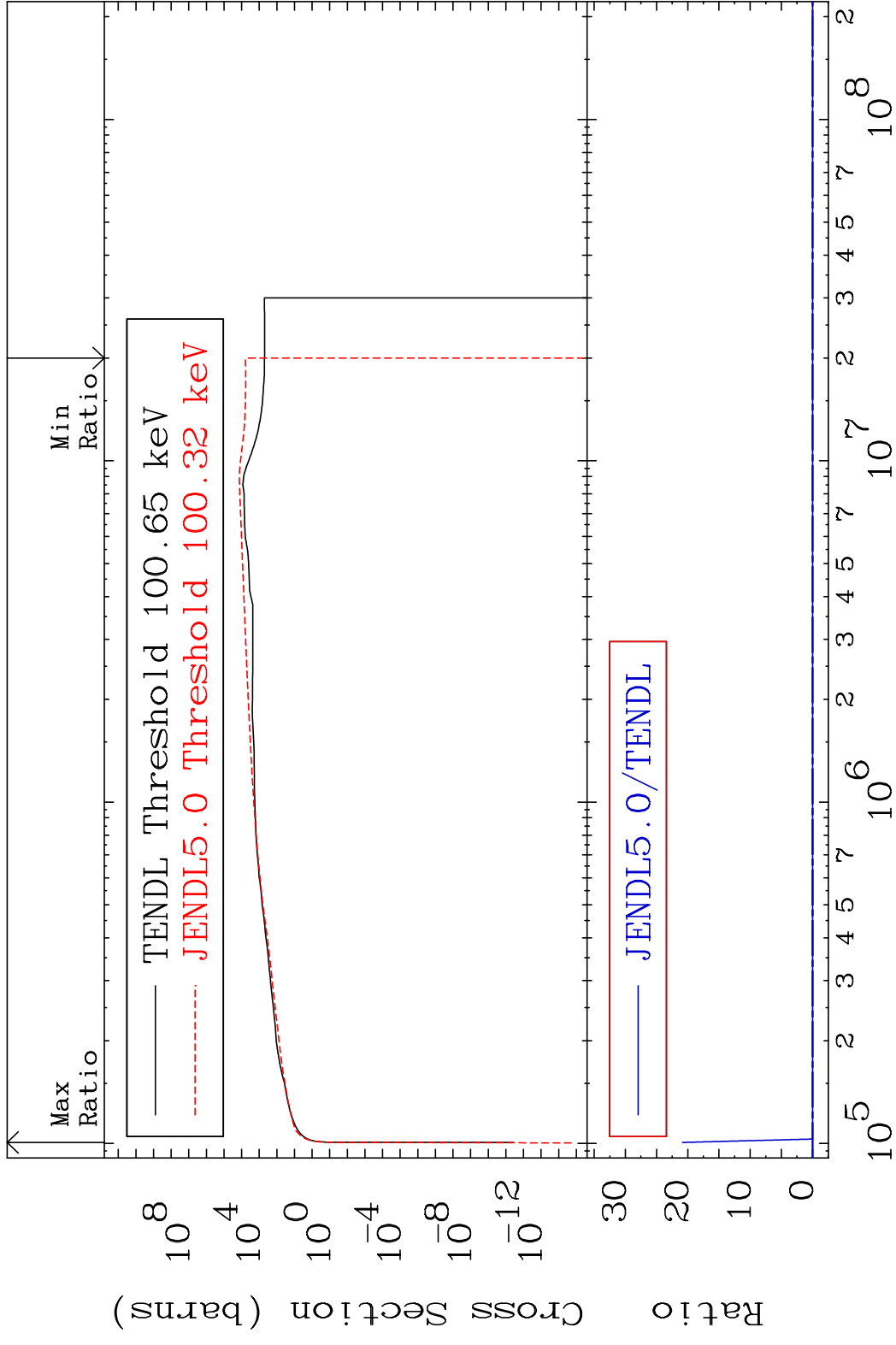


56

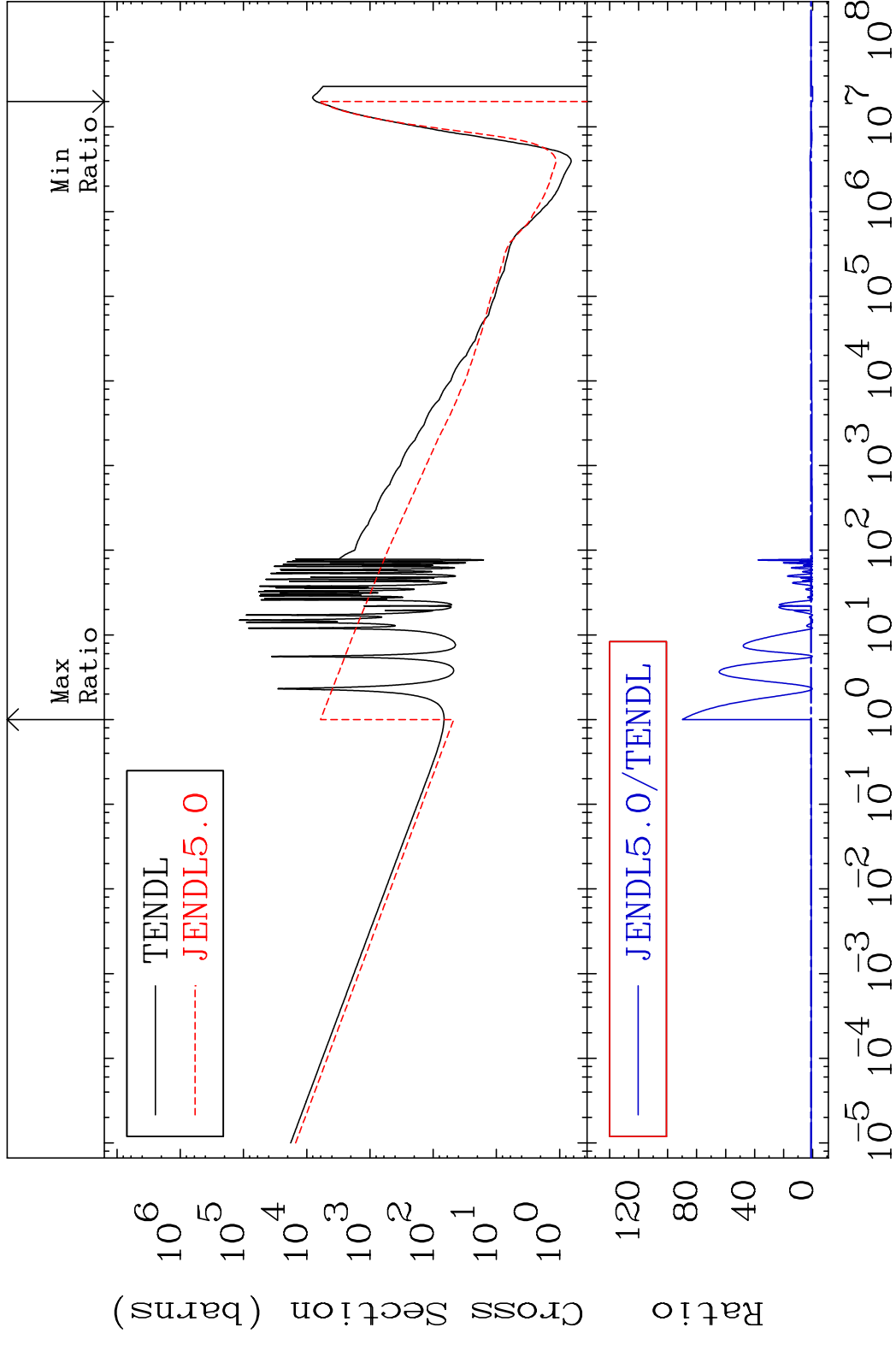
Incident Energy (eV)

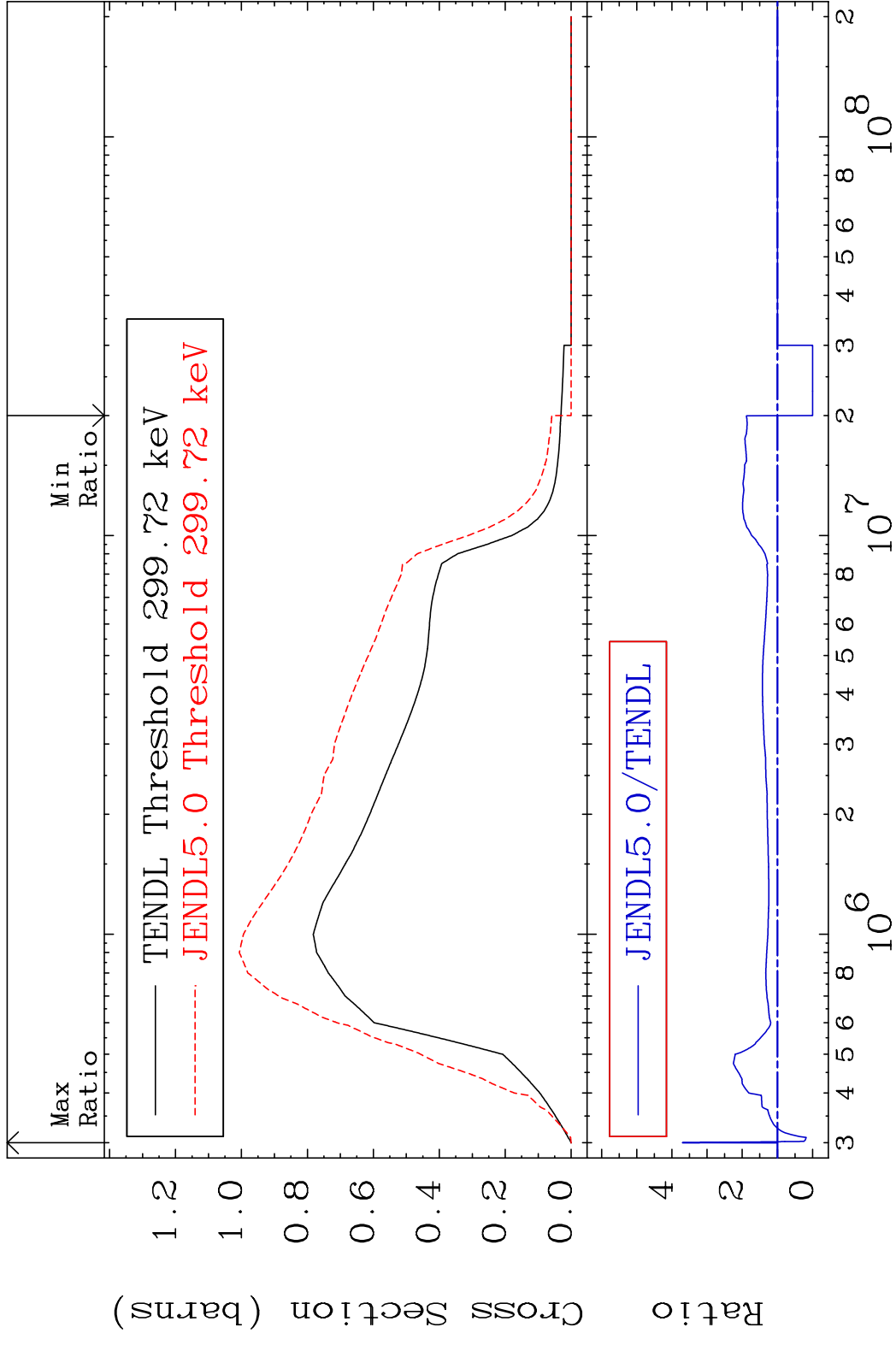
67-Ho-163

MAT 6719 Dpa inelastic (mt51-91) 67-Ho-163
 Cross Section -100.0 To 9999. %

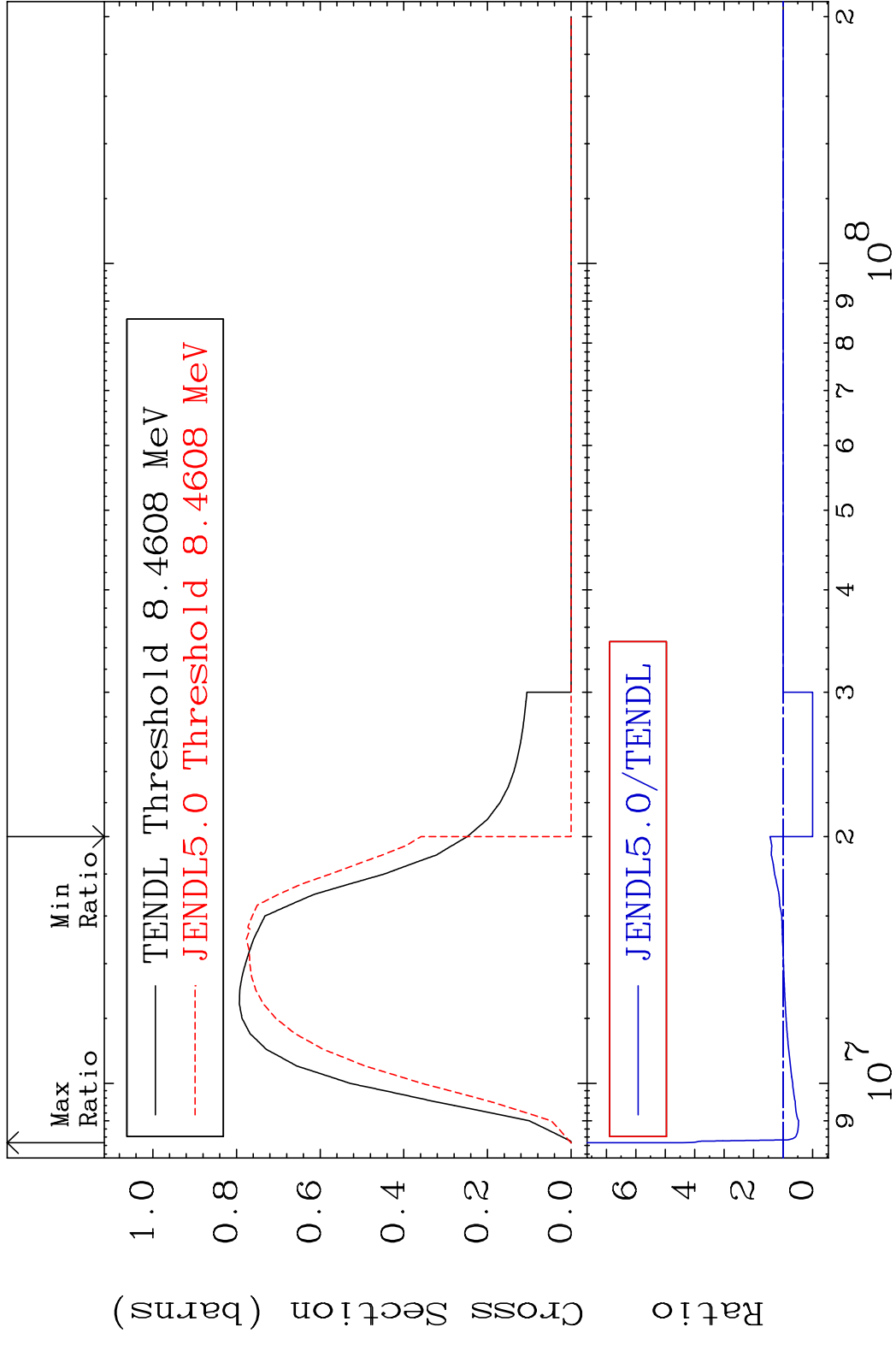


MAT 6719 Dpa disappearance (mt102 -120) 67-Ho-163
 Cross Section -100.0 To 8885. %

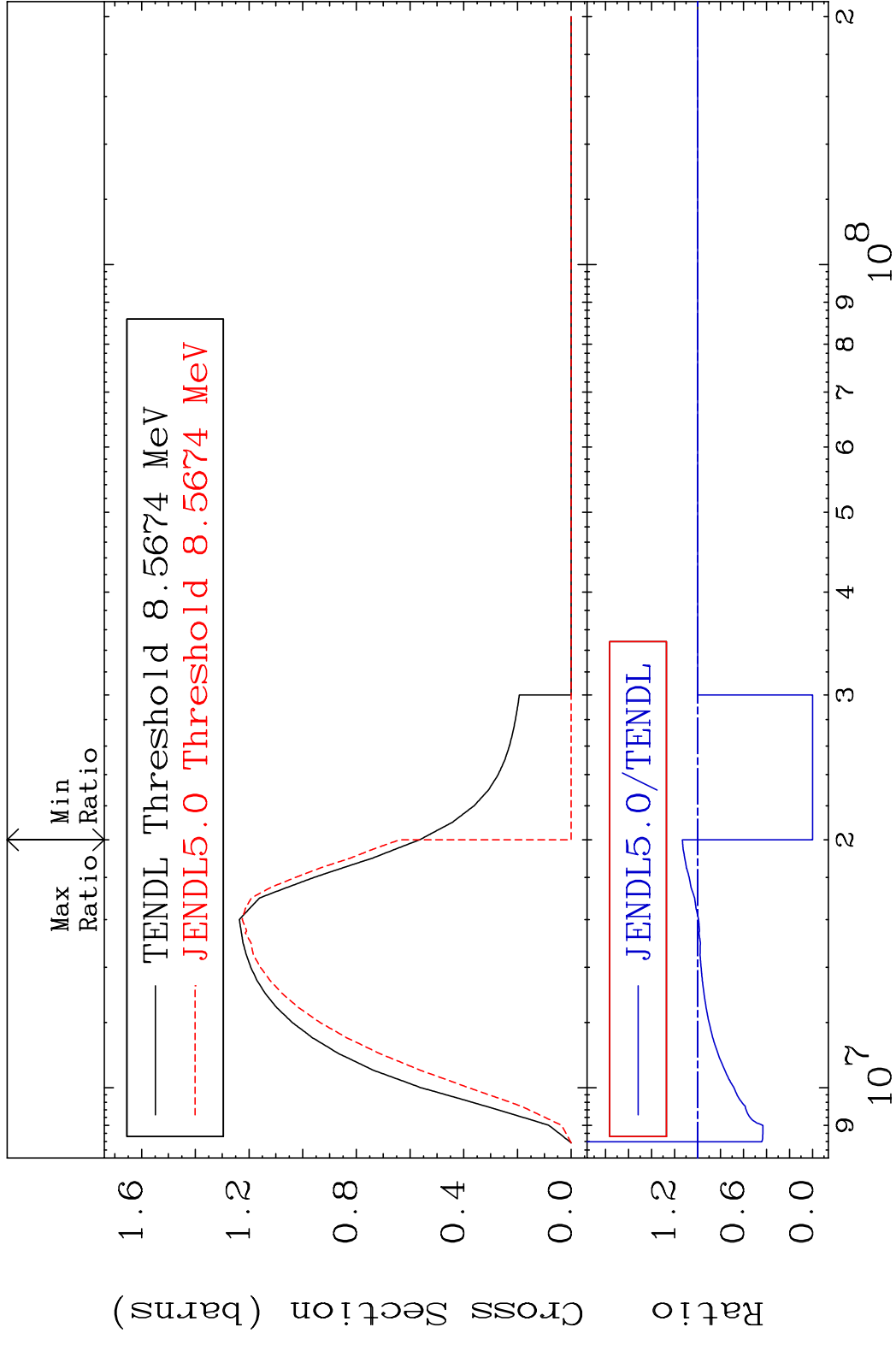


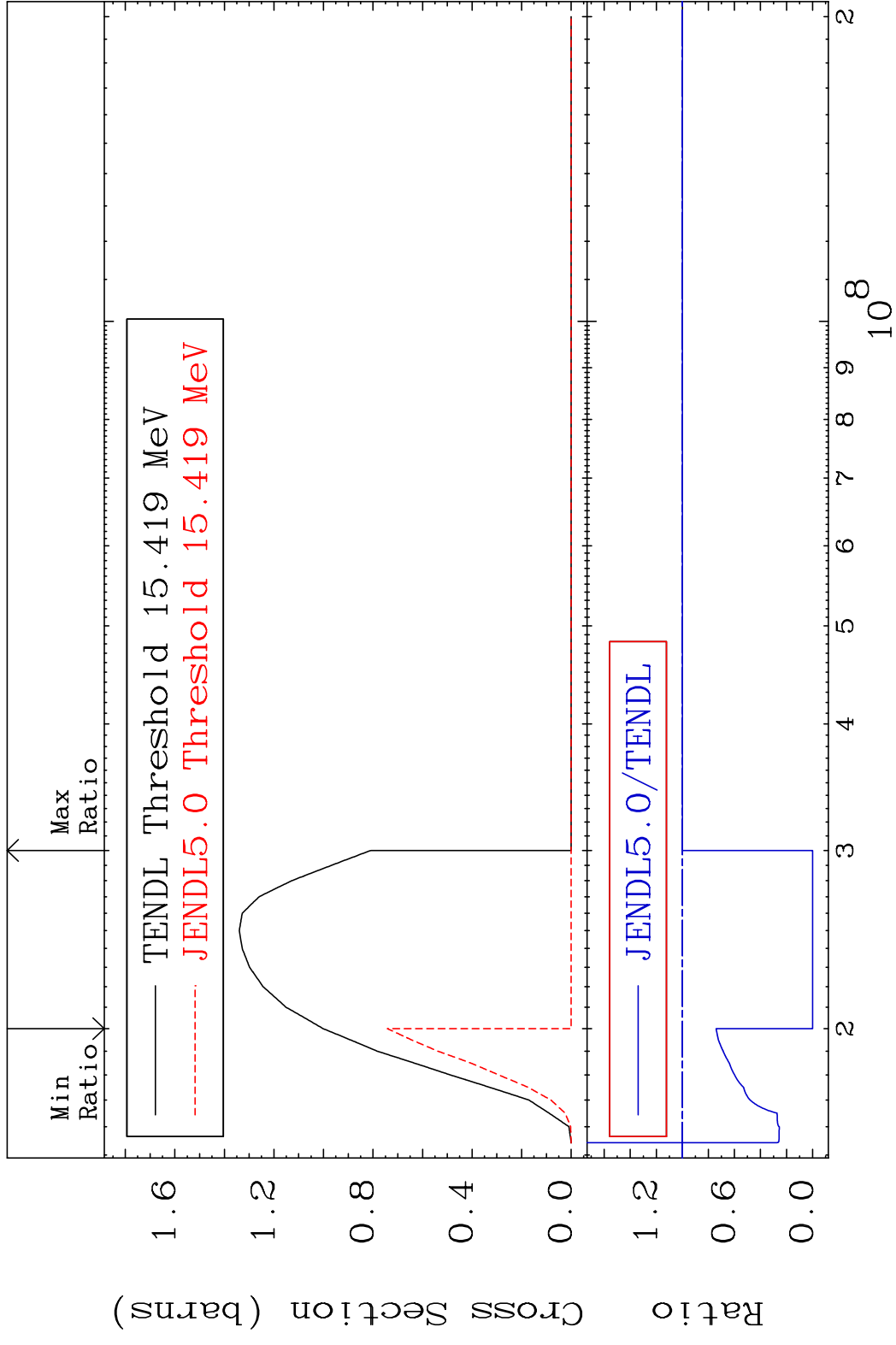


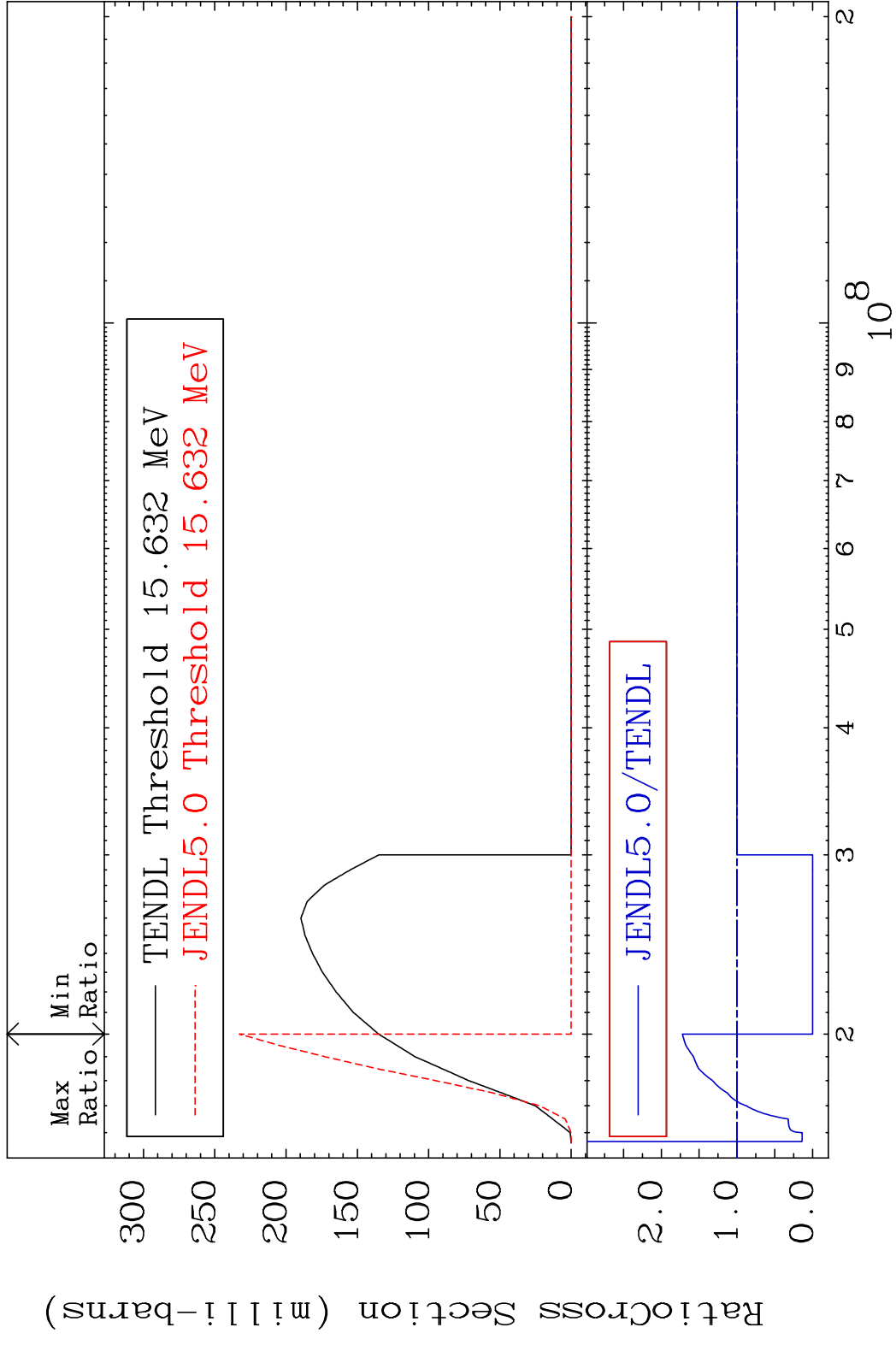
MAT 6719 (n,2n):67-Ho-162g 67-Ho-163
 Radionuclide Production Cross Section 180.0 dth 342.1 %

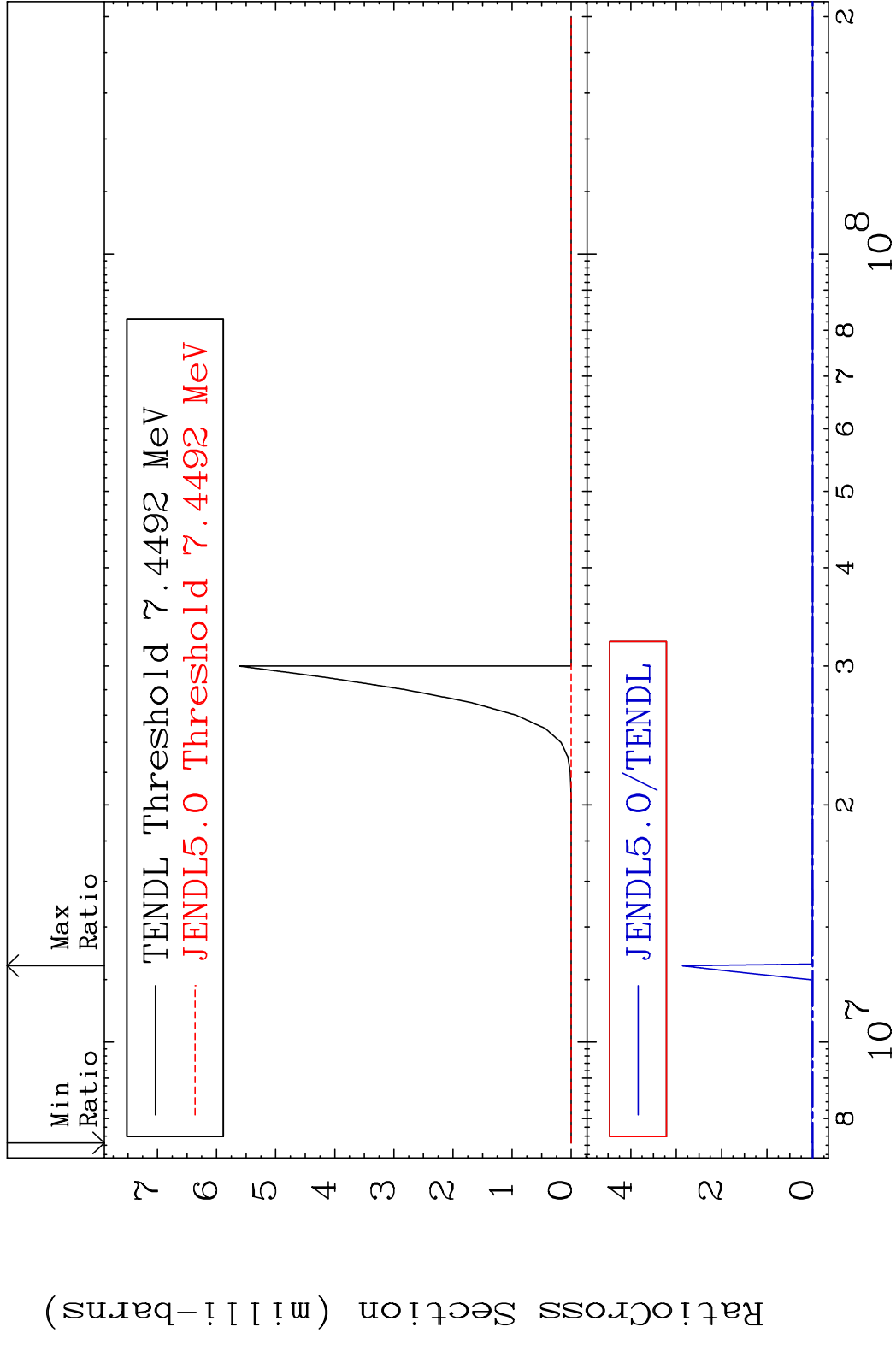


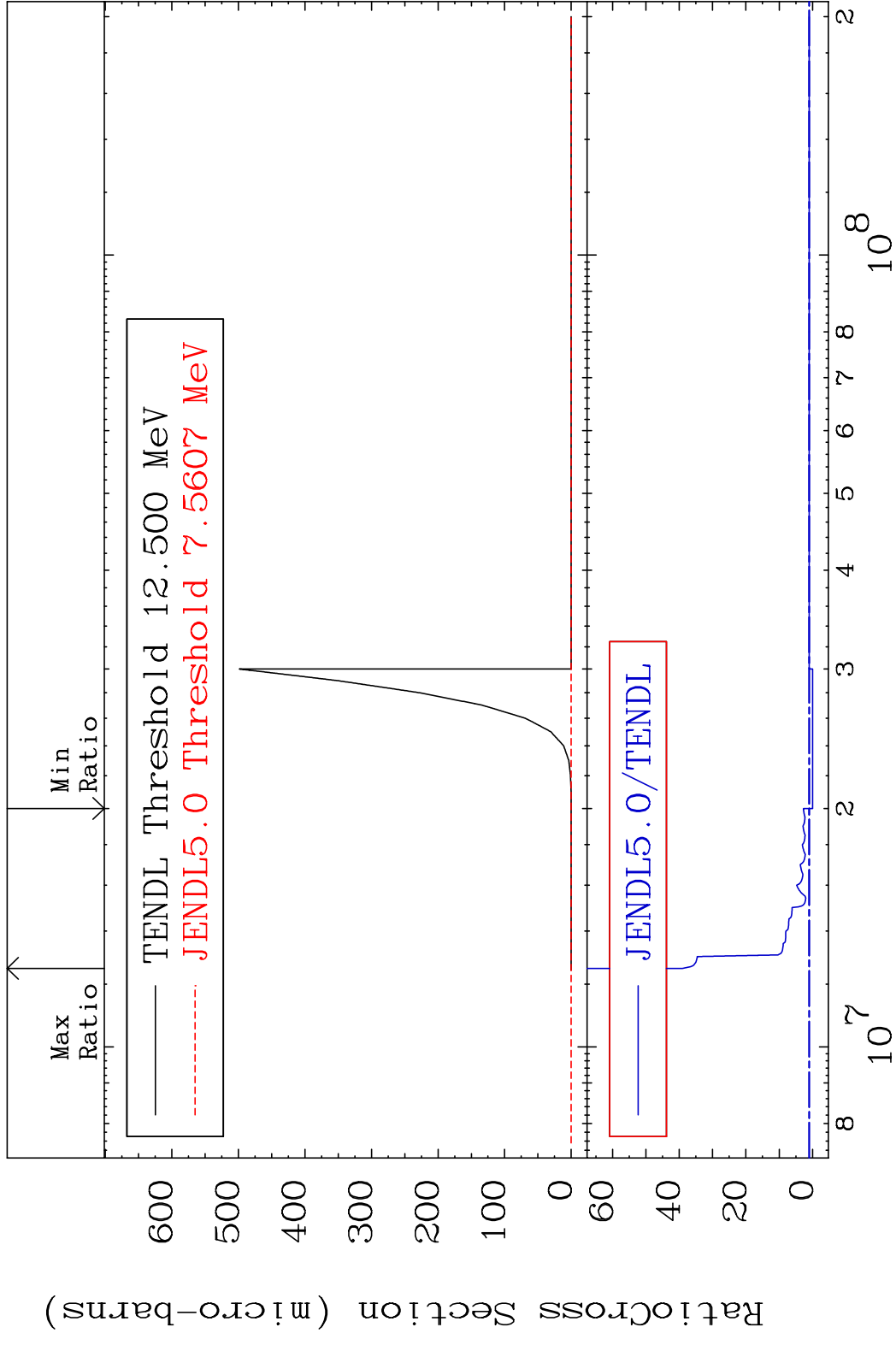
60 Incident Energy (eV) 67-Ho-163









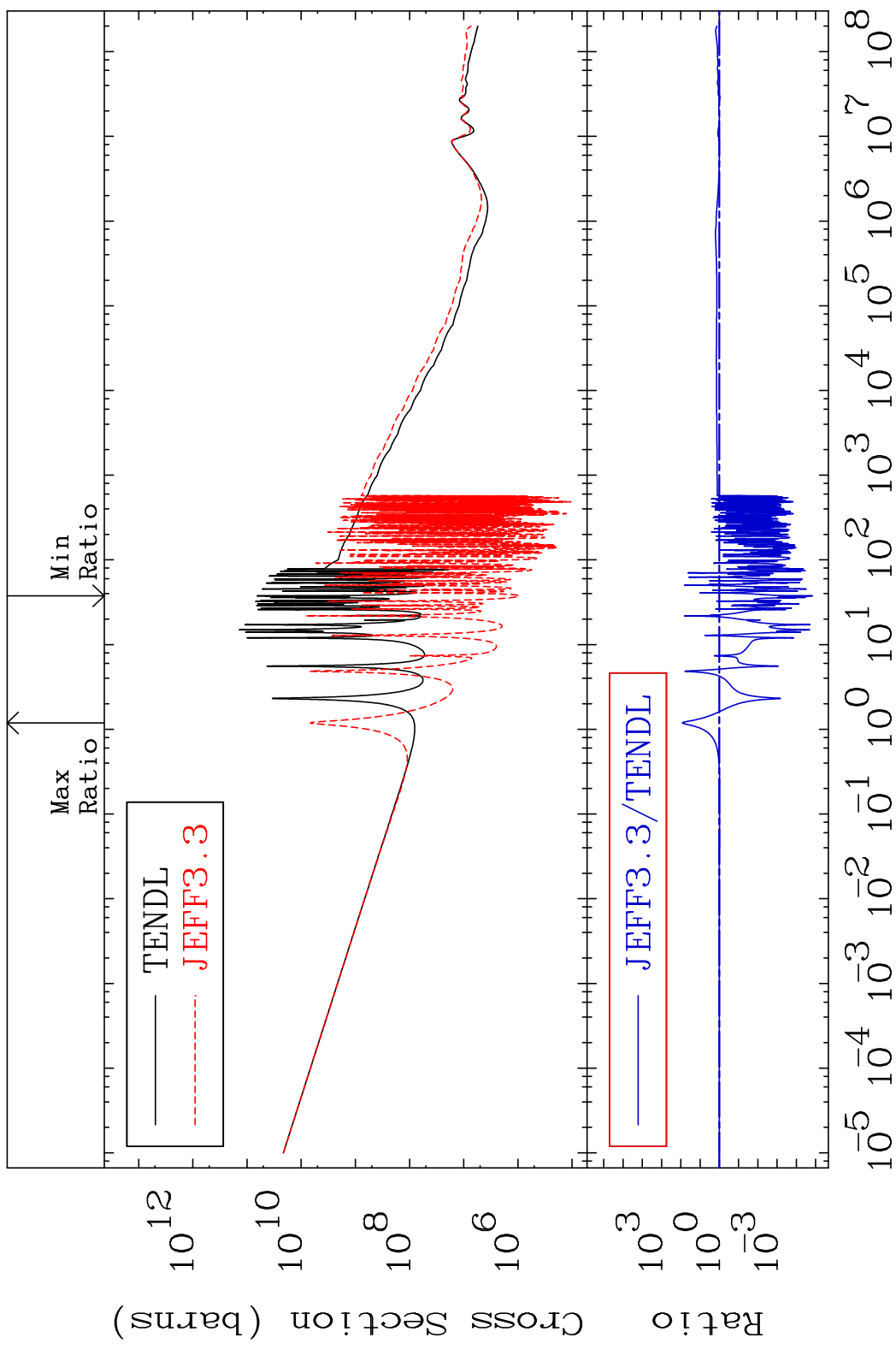


MAT 6719

Total photon (eV-barns)

67-Ho-163

Cross Section -100.0 To 8232. %

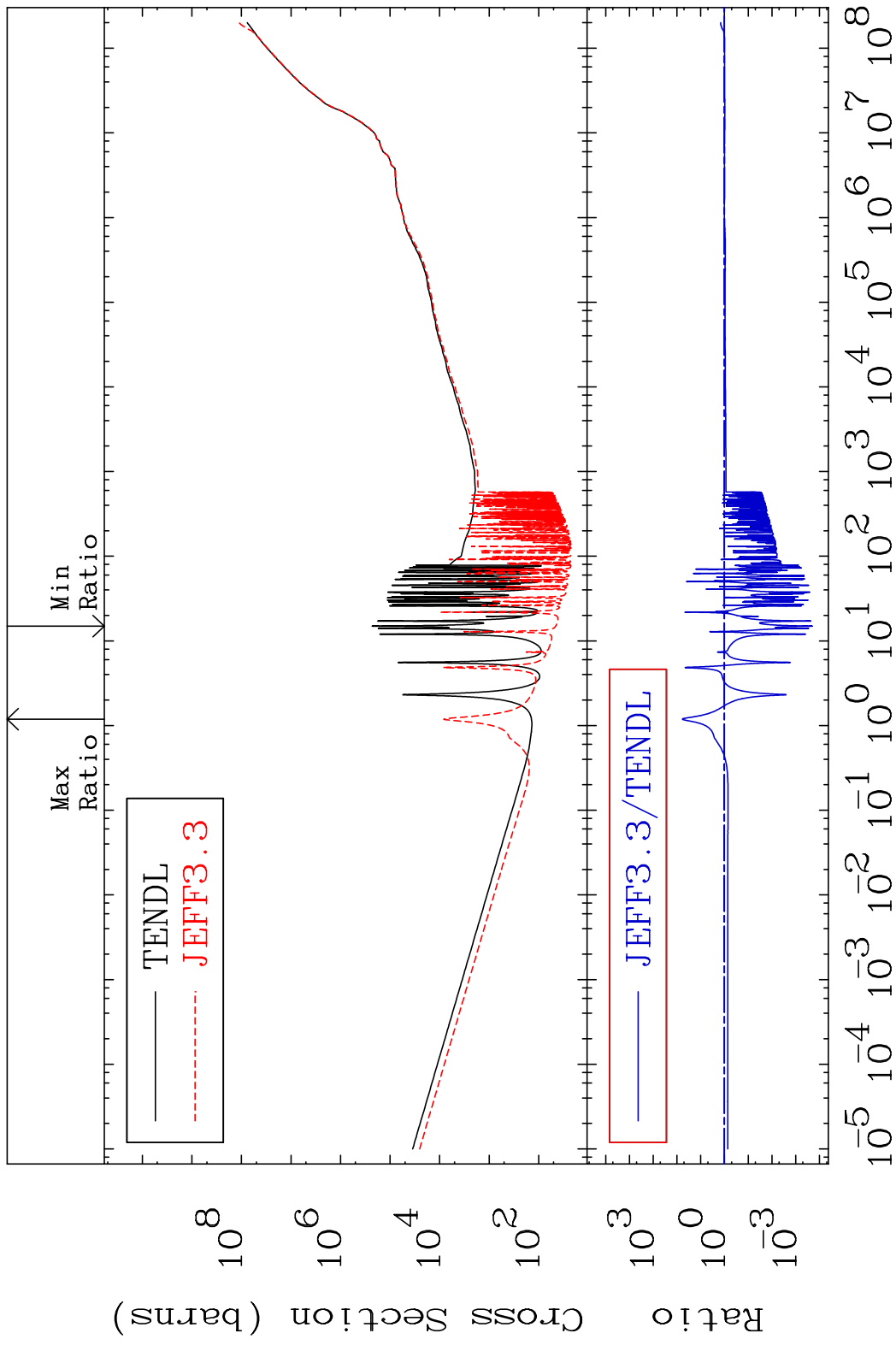


66

Incident Energy (eV)

67-Ho-163

MAT 6719 Total kinematic kerma (high limit) 67-Ho-163
 Cross Section -99.98 To 5820. %

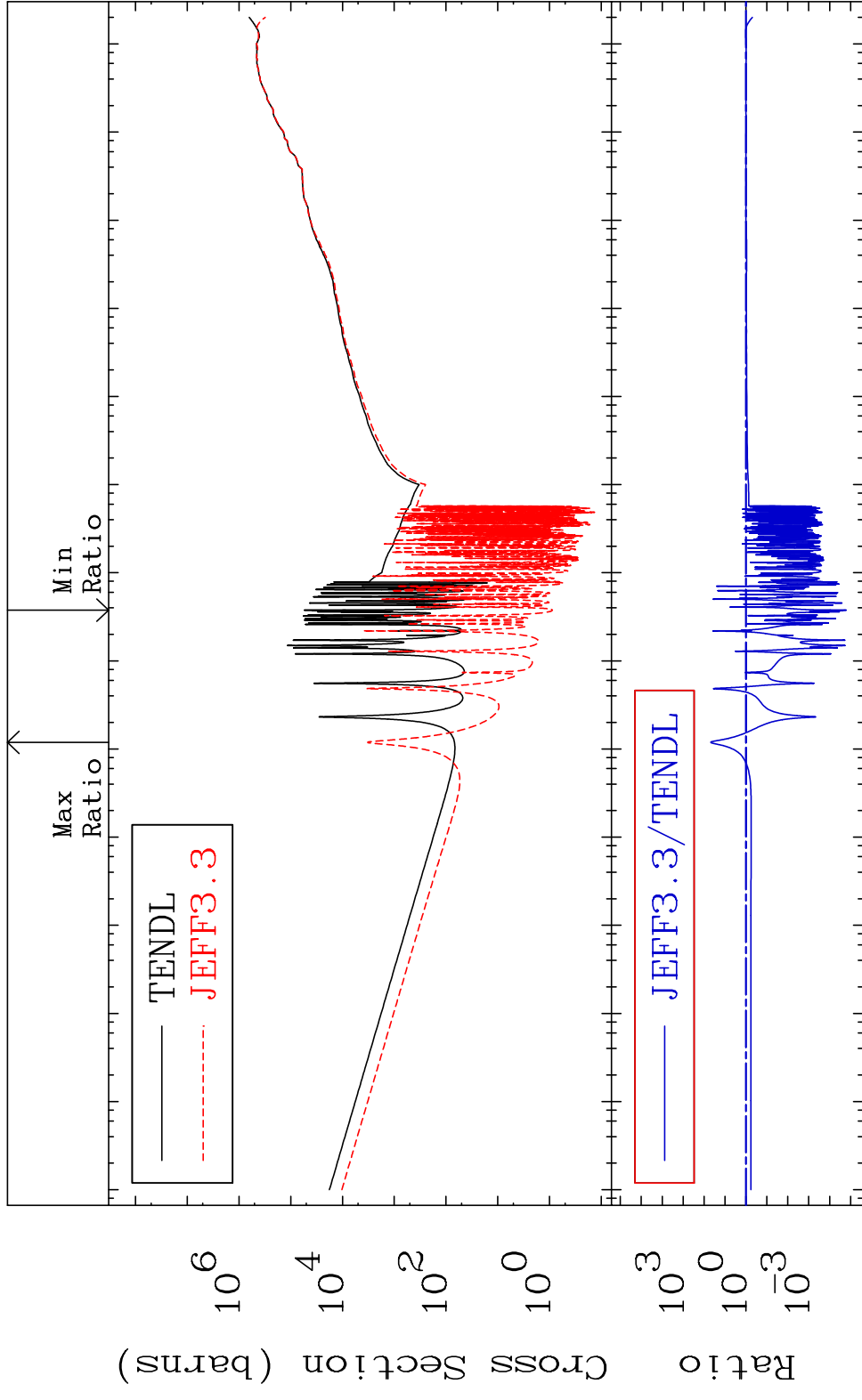


MAT 6719

Dpa total (eV-barns)

67-Ho-163

Cross Section -100.0 To 4702. %



68

Incident Energy (eV)

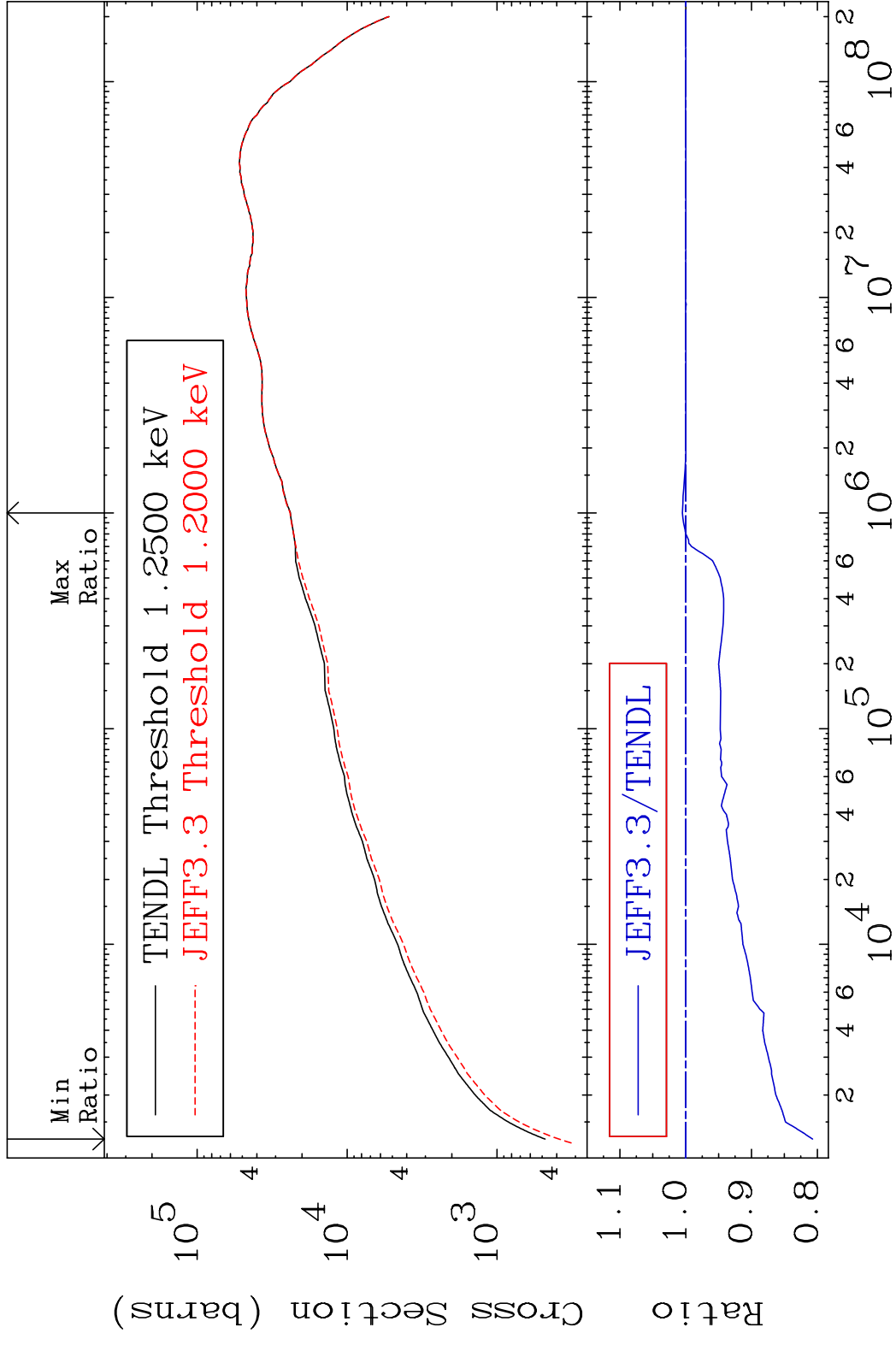
67-Ho-163

MAT 6719

Dpa elastic (mt2)

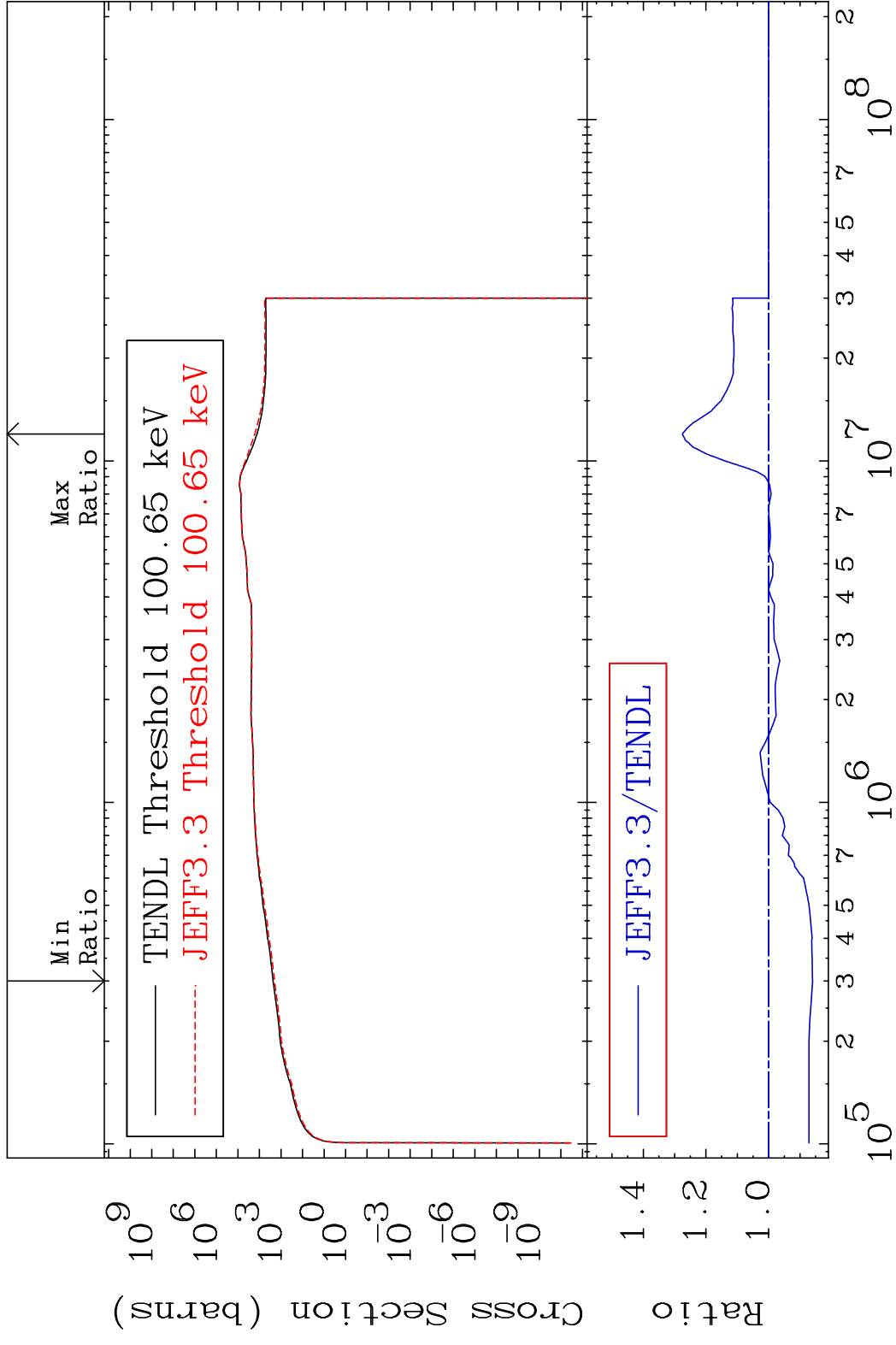
67-Ho-163

Cross Section -19.28 To 0.508 %



MAT 6719

Dpa inelastic (mt51-91) 67-Ho-163
Cross Section -14.02 To 27.54 %

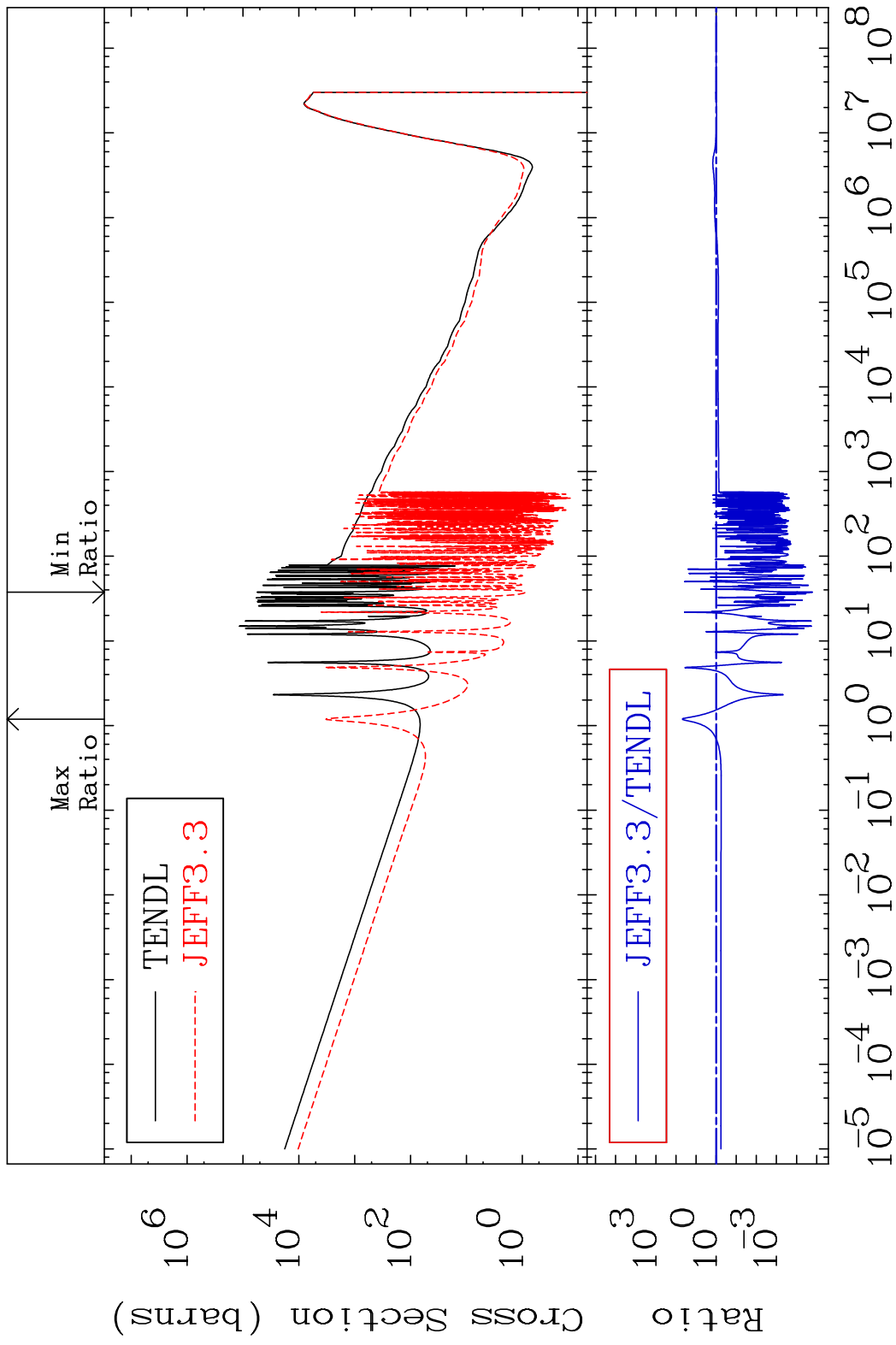


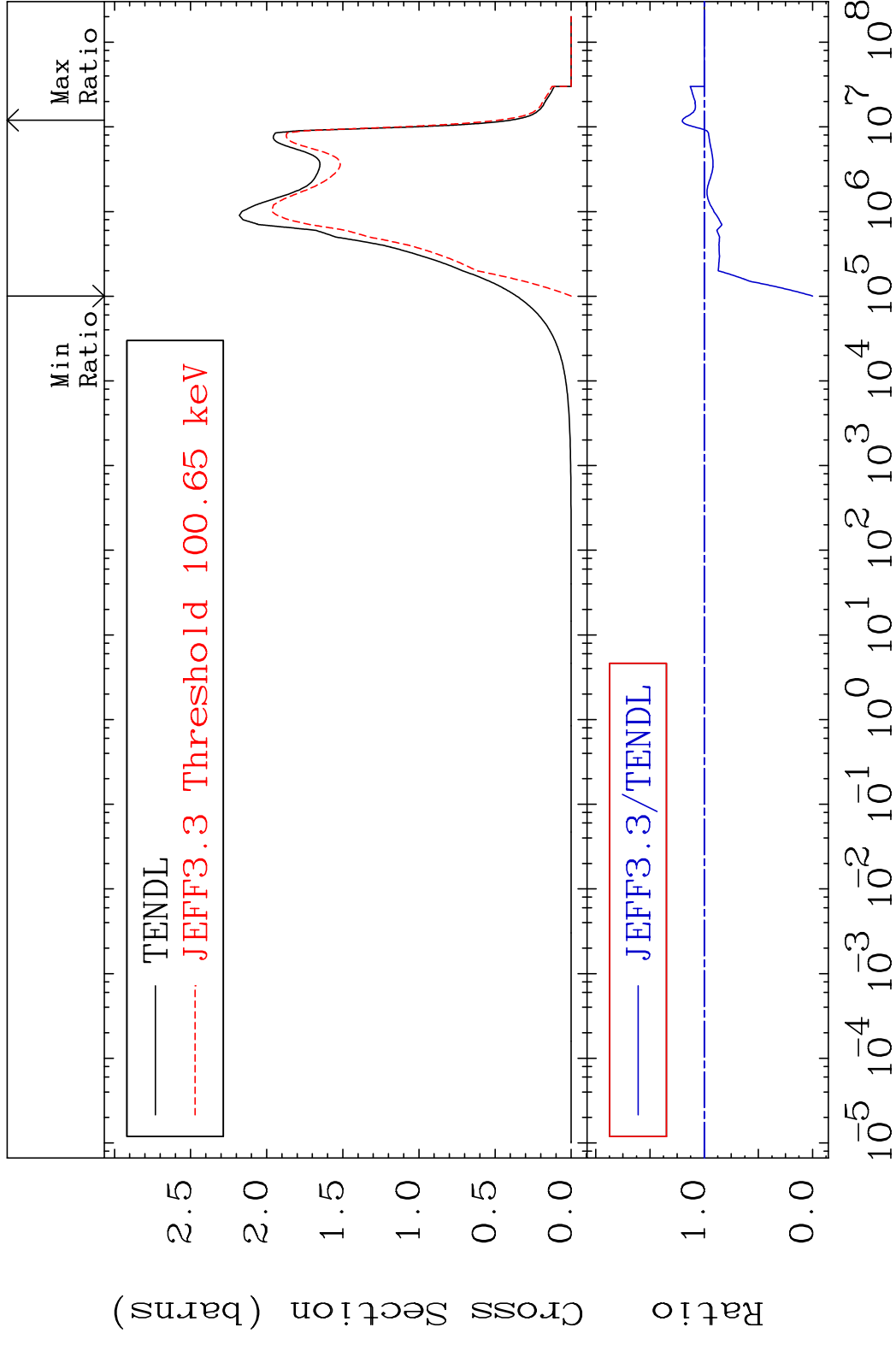
70

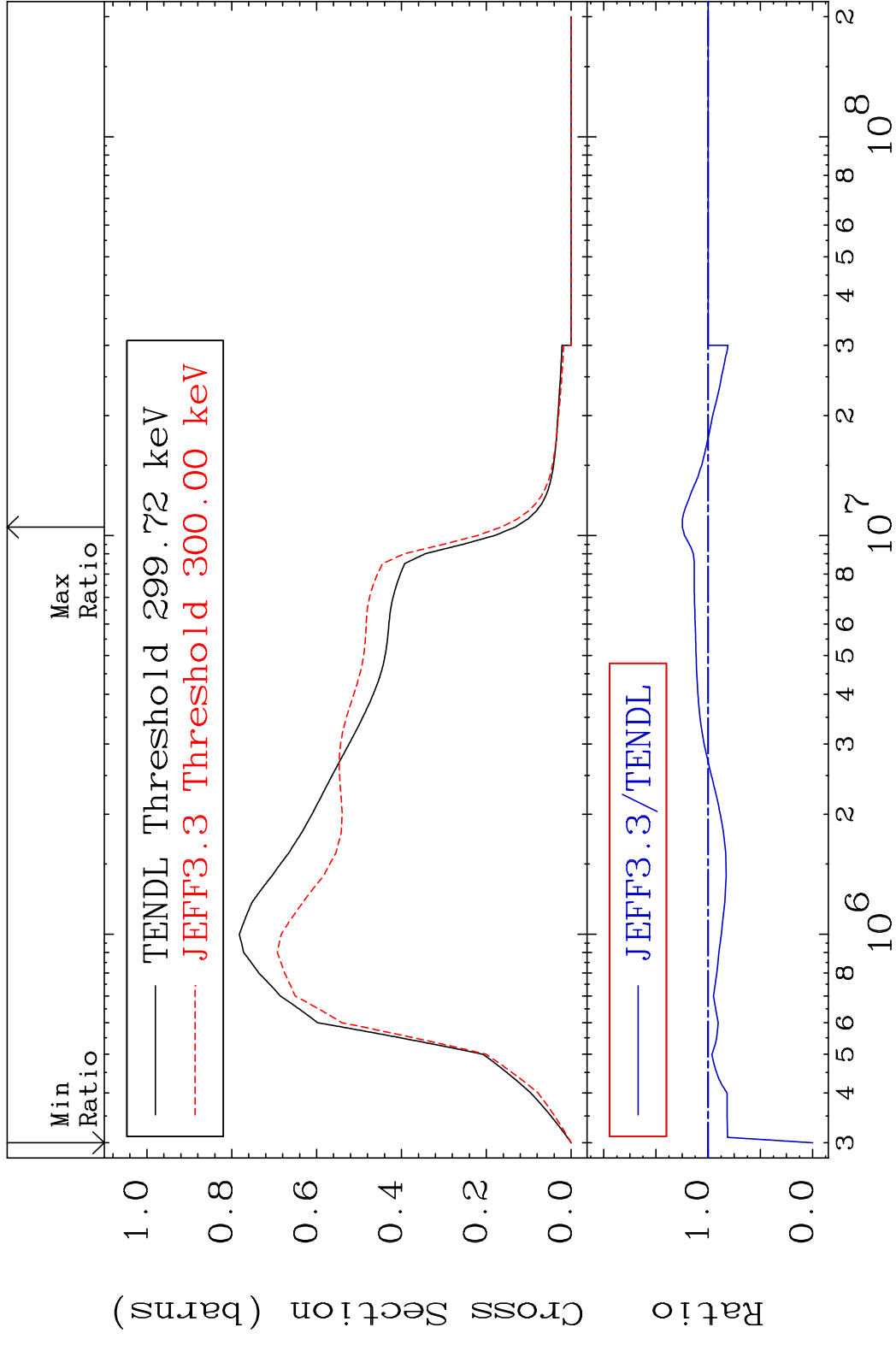
Incident Energy (eV)

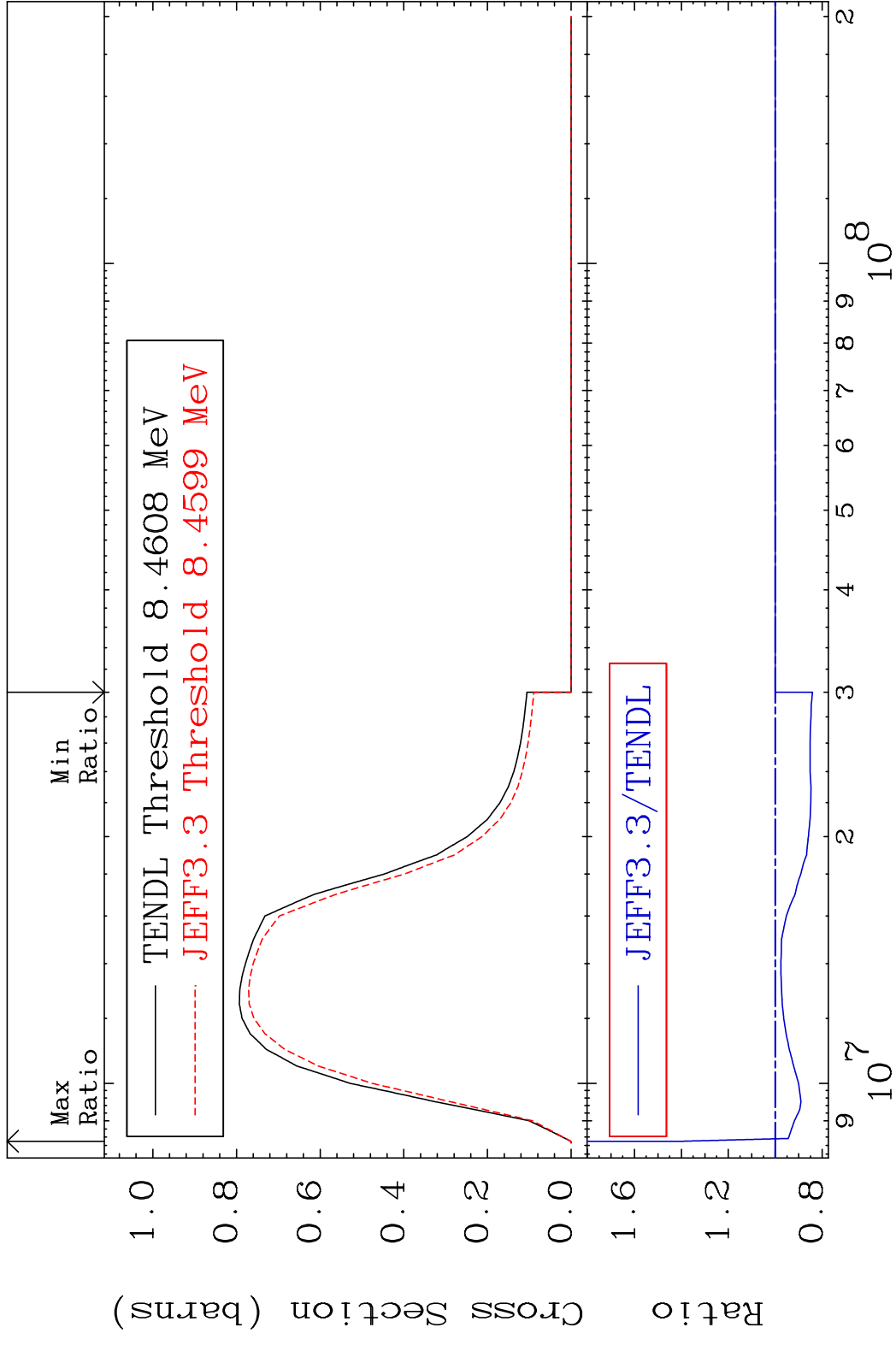
67-Ho-163

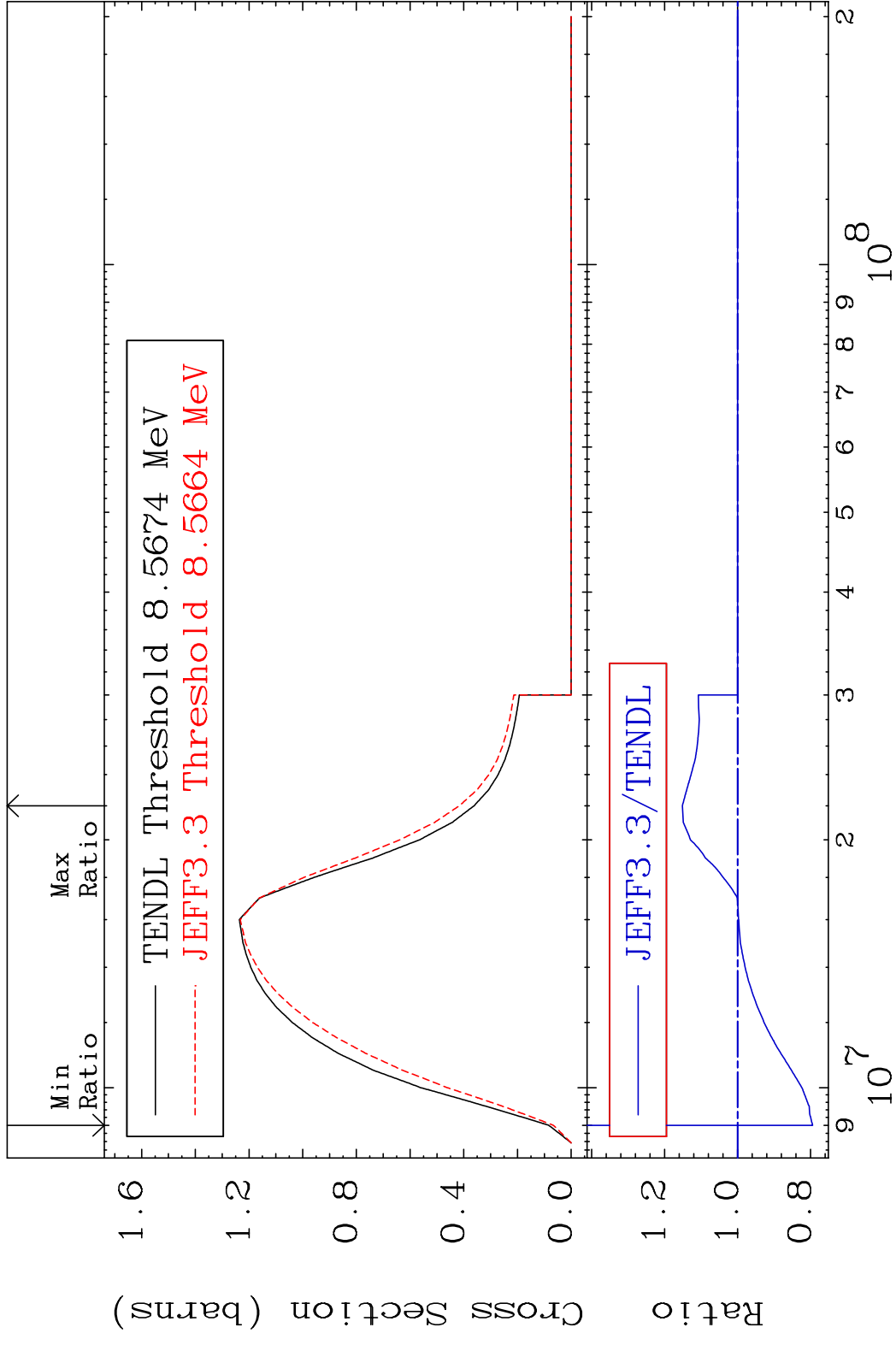
MAT 6719 Dpa disappearance (mt102 -120) 67-Ho-163
 Cross Section -100.0 To 4702. %



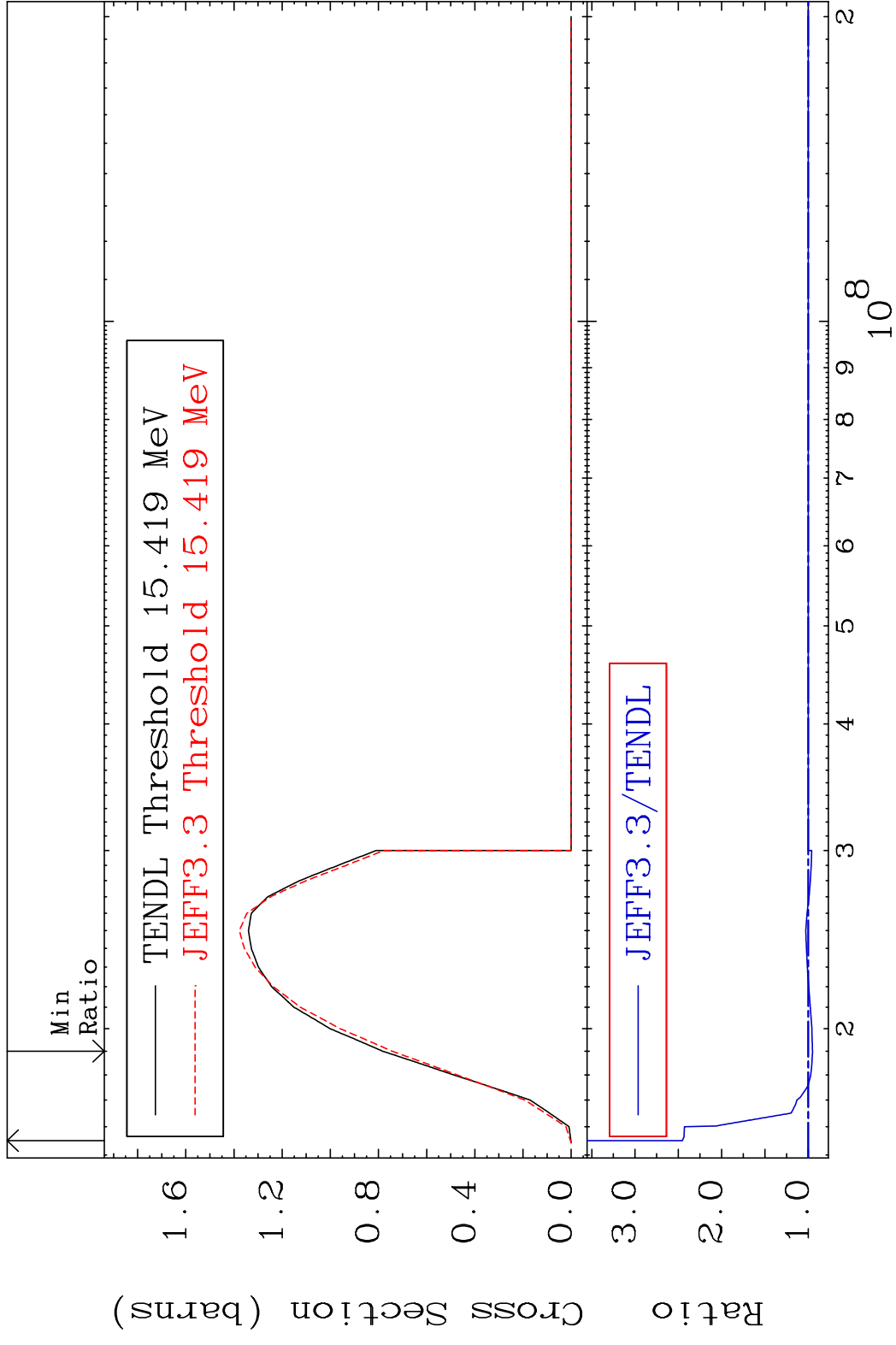


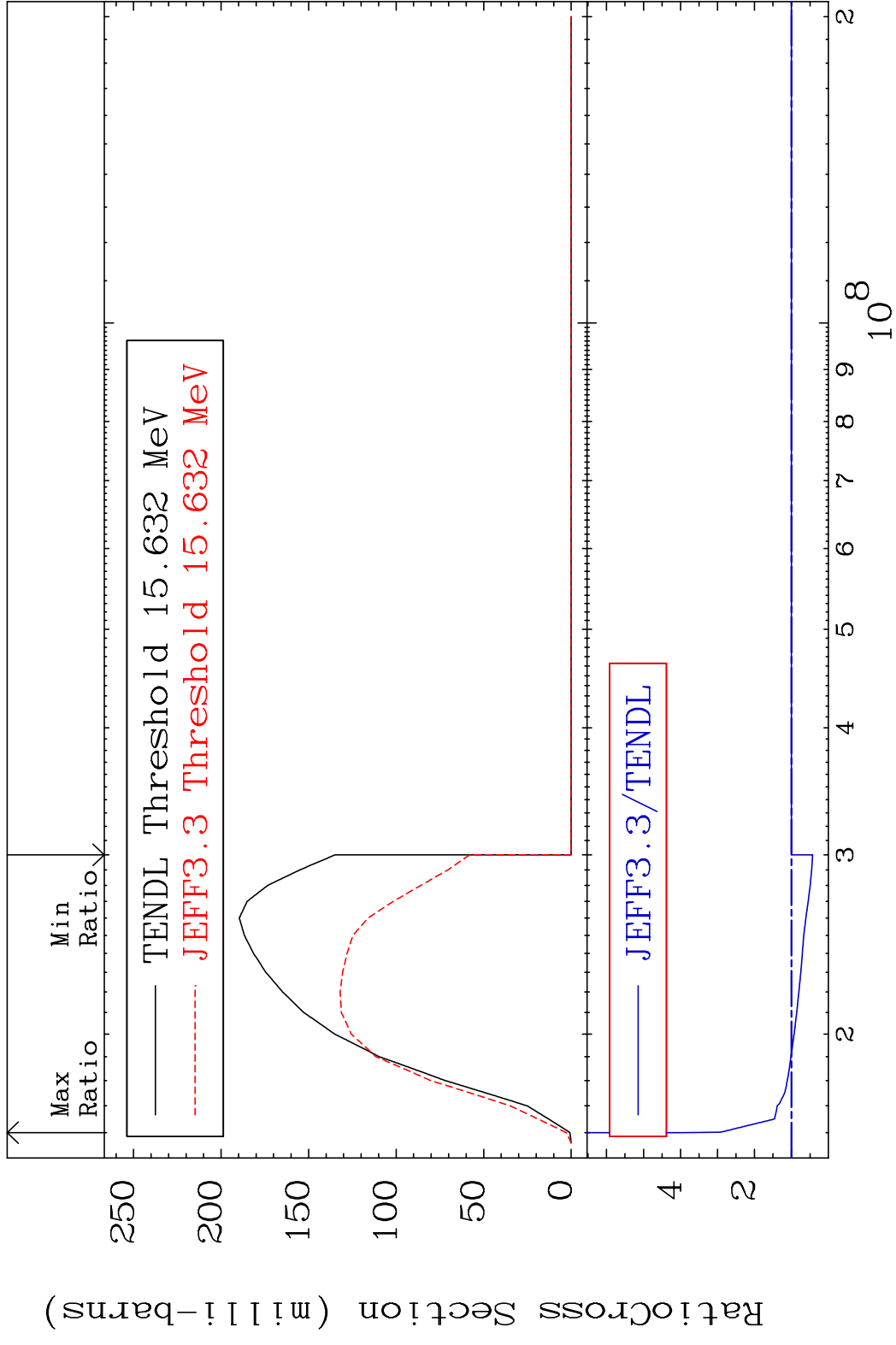




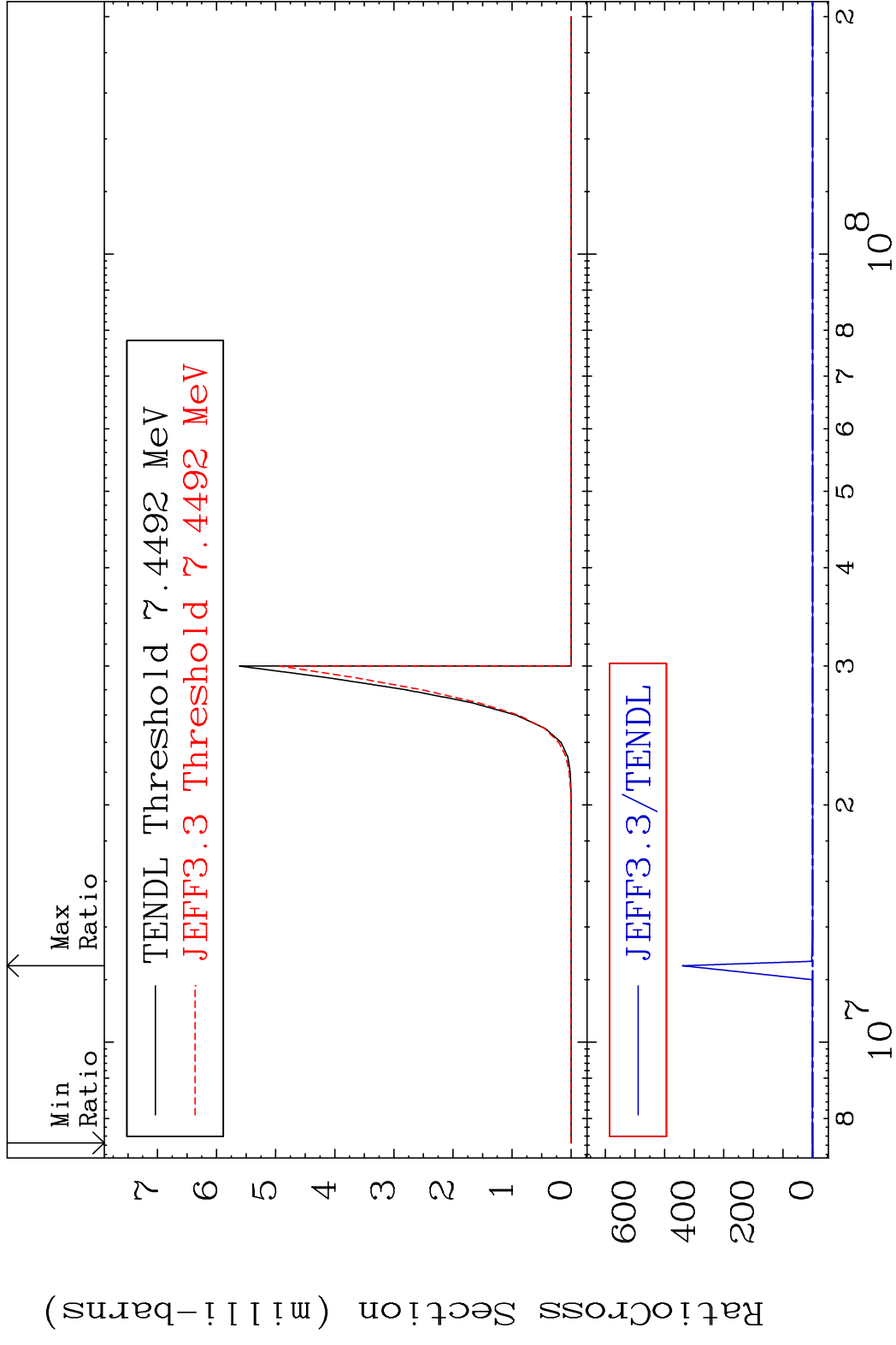


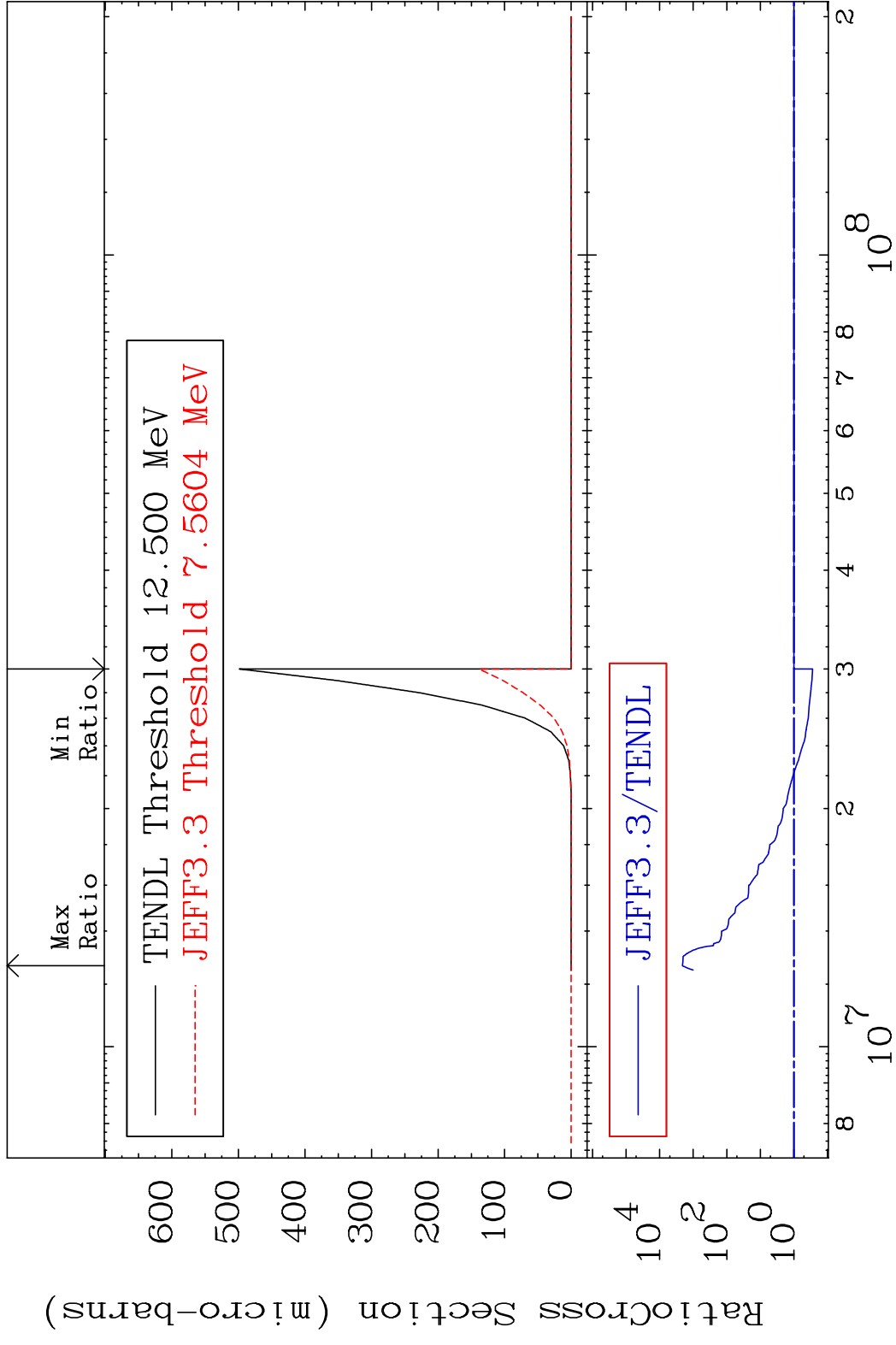
MAT 6719 (n,3n):67-Ho-161g 67-Ho-163
 Radionuclide Production Cross Section 145.4 %



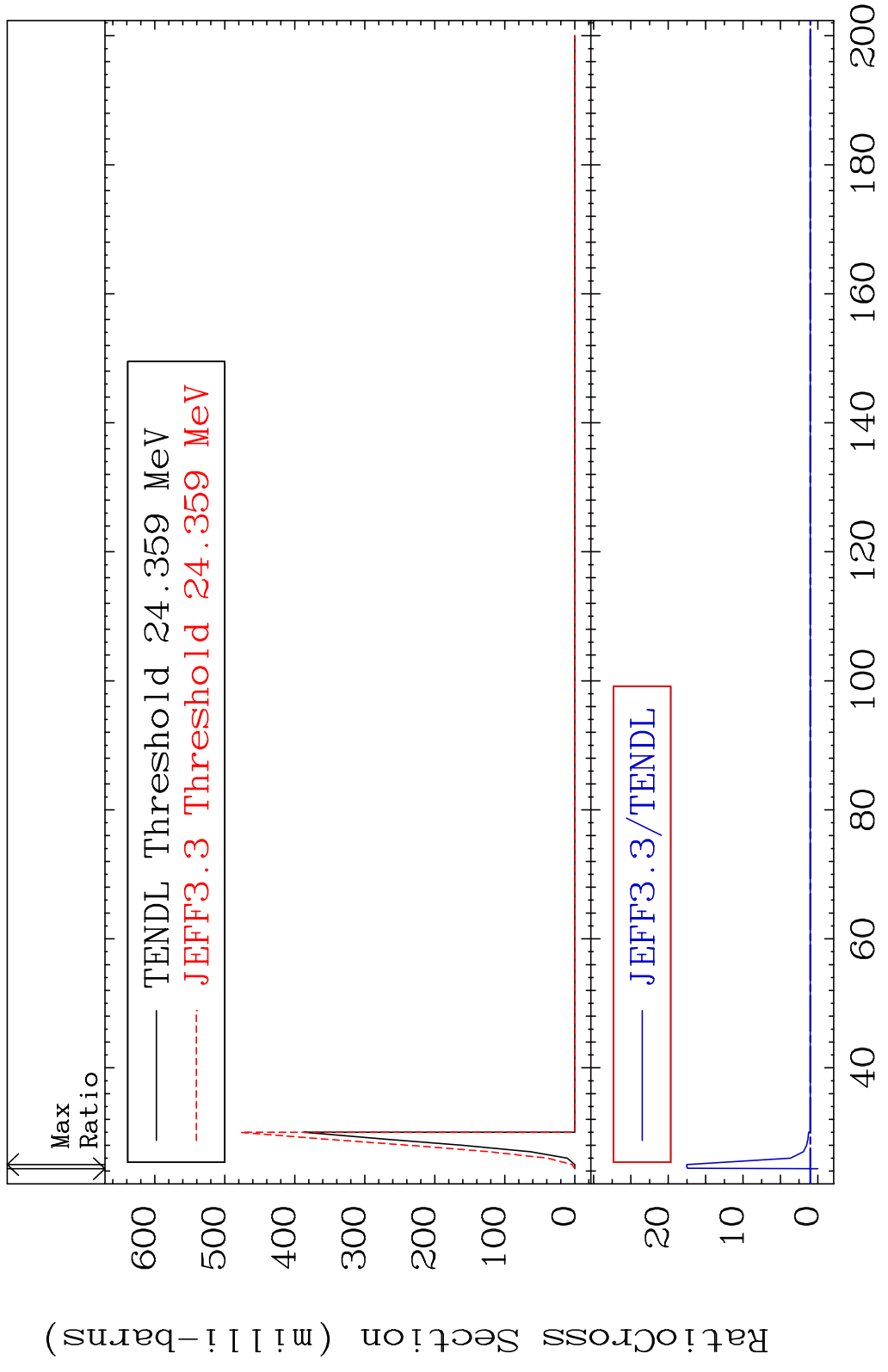


MAT 6719 (n,2n) α :65-Tb-158g 67-Ho-163
 Radionuclide Production Cross Section 100.00 dth 9999. %





MAT 6719 (n,4n):67-Ho-160g 67-Ho-163
 Radionuclide Production Cross Section 180.0 dth 1653. %



80 Incident Energy (MeV) 67-Ho-163

