

Program Complot
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

U.S.A.

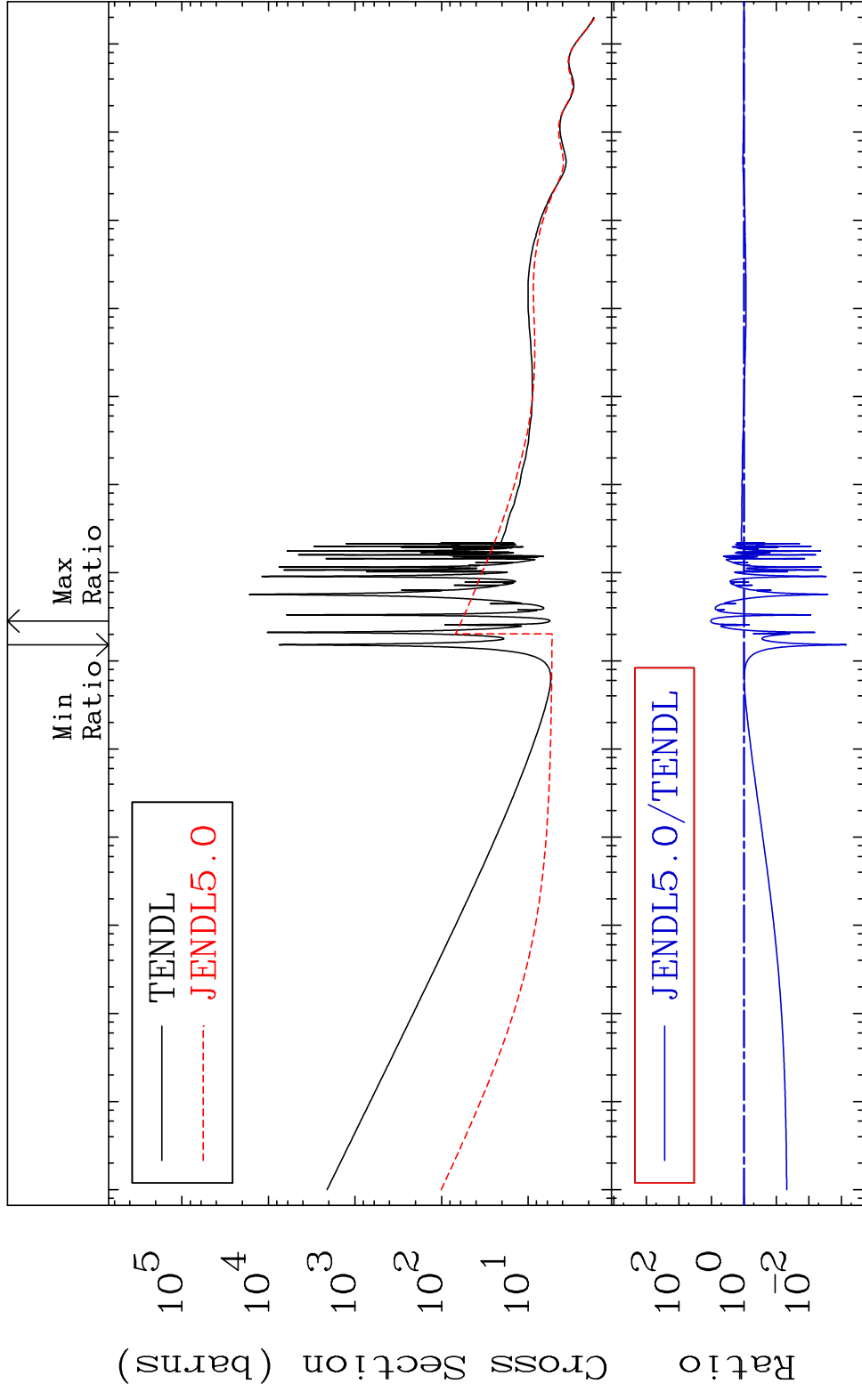
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 4520

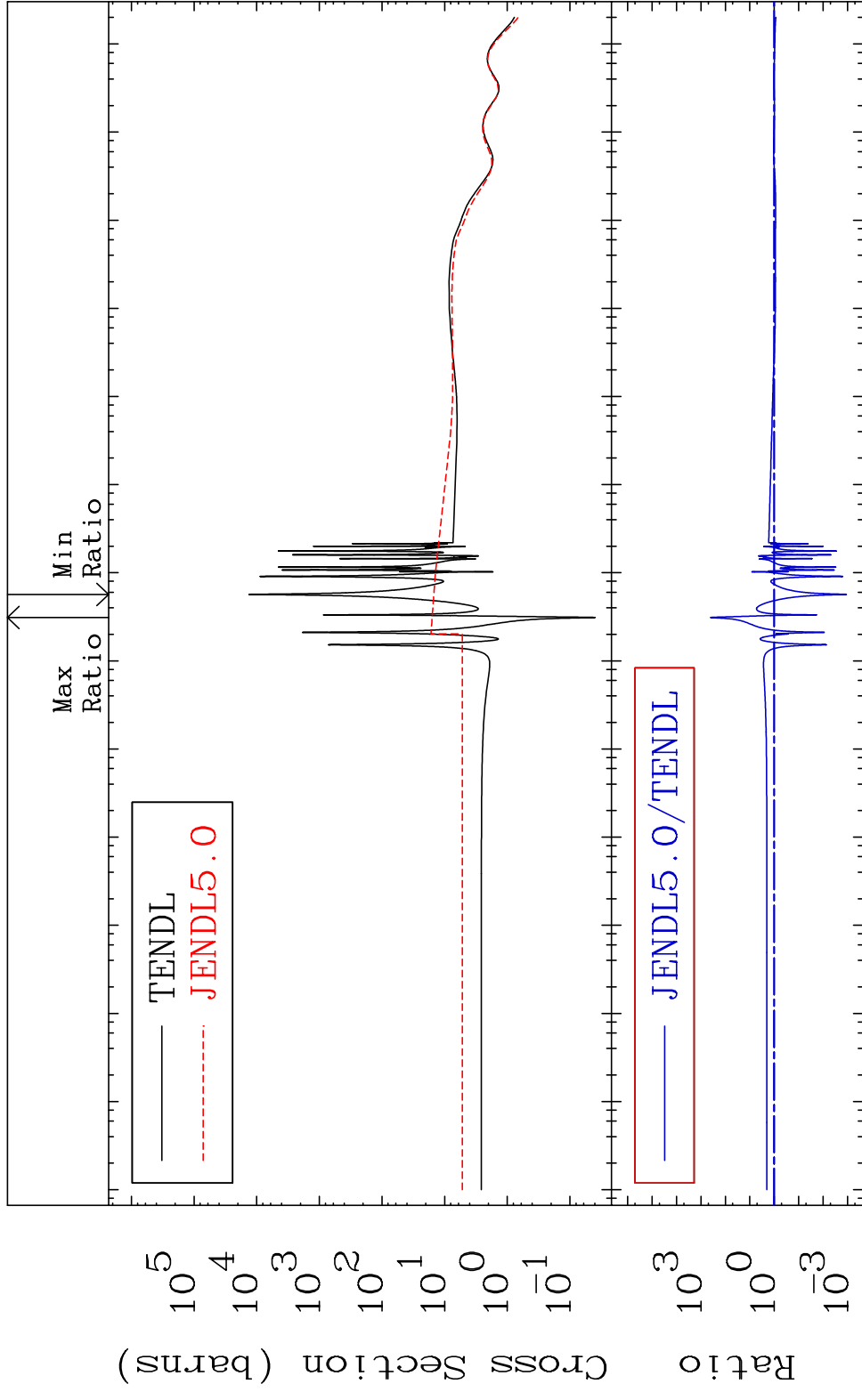
Total Cross Section
45-Rh-101m
-99.93 To 950.2 %



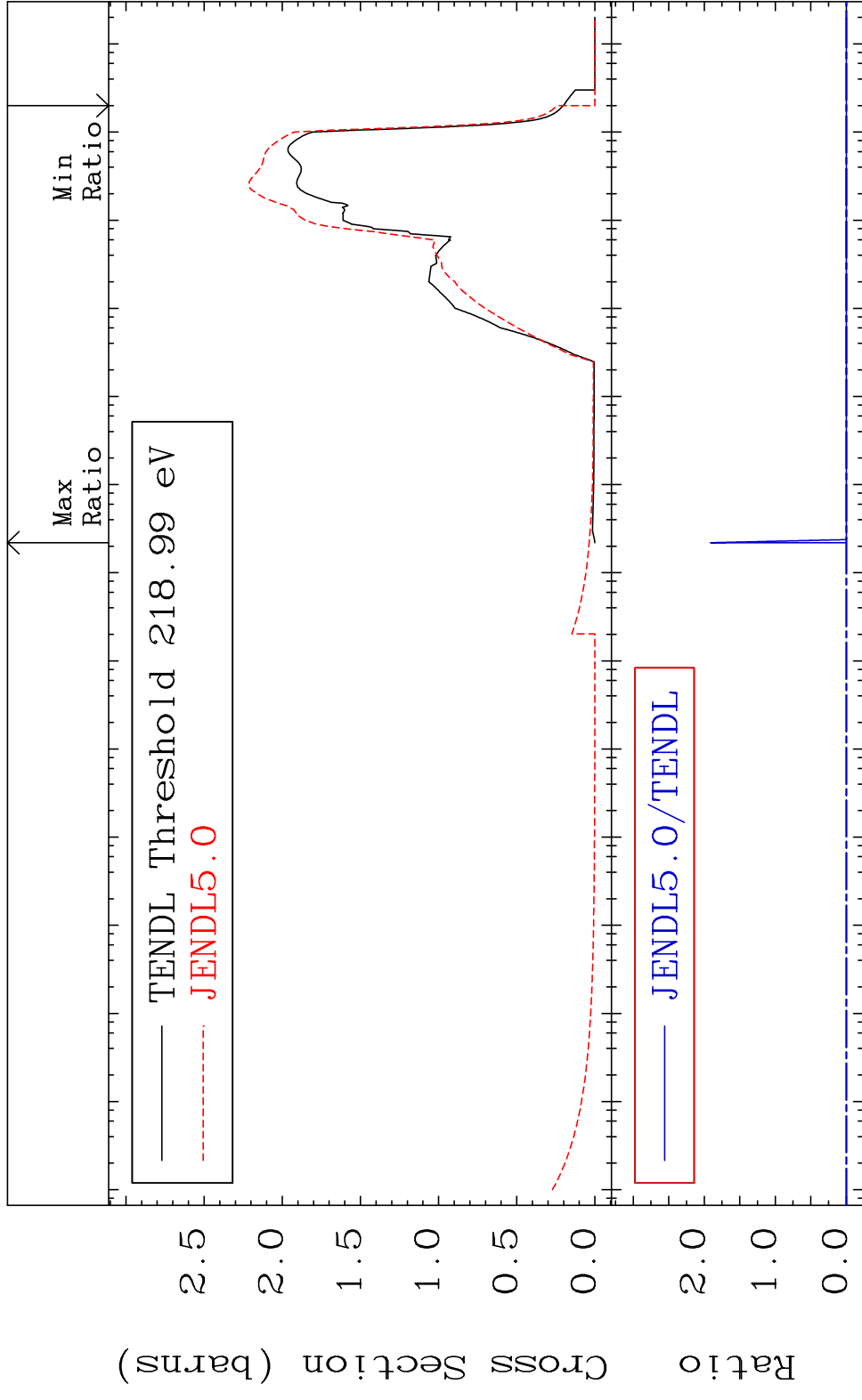
1 Incident Energy (eV) 45-Rh-101m

MAT 4520

Elastic Cross Section -99.89 To 9999. %
45-Rh-101m



MAT 4520 Inelastic Cross Section 45-Rh-101m
 -100.0 To 9999. %

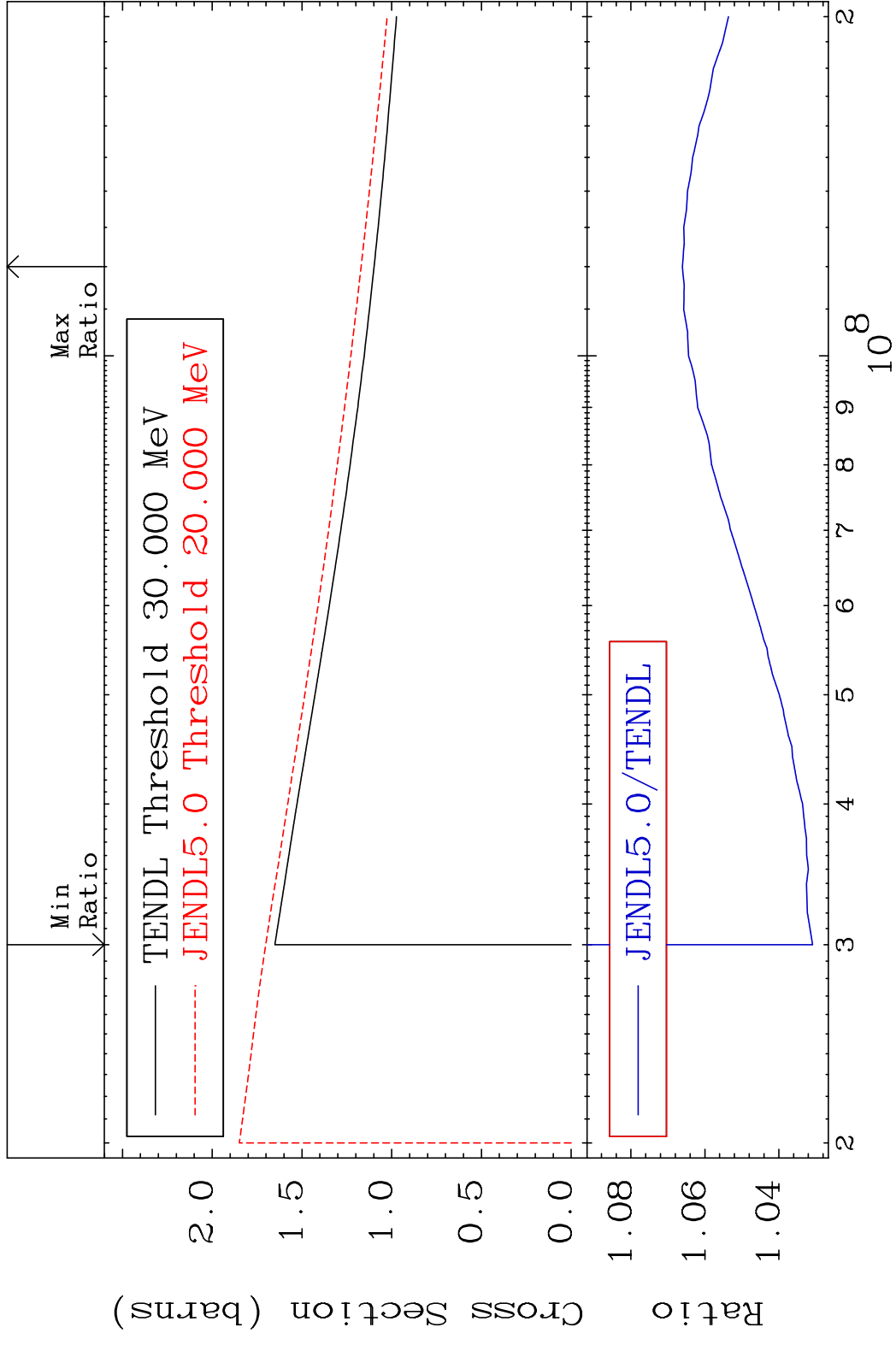


Ratio

Cross Section (barns)

Incident Energy (eV)

MAT 4520 (n, remainder) 45-Rh-101m
 Cross Section 3.087 To 6.609 %



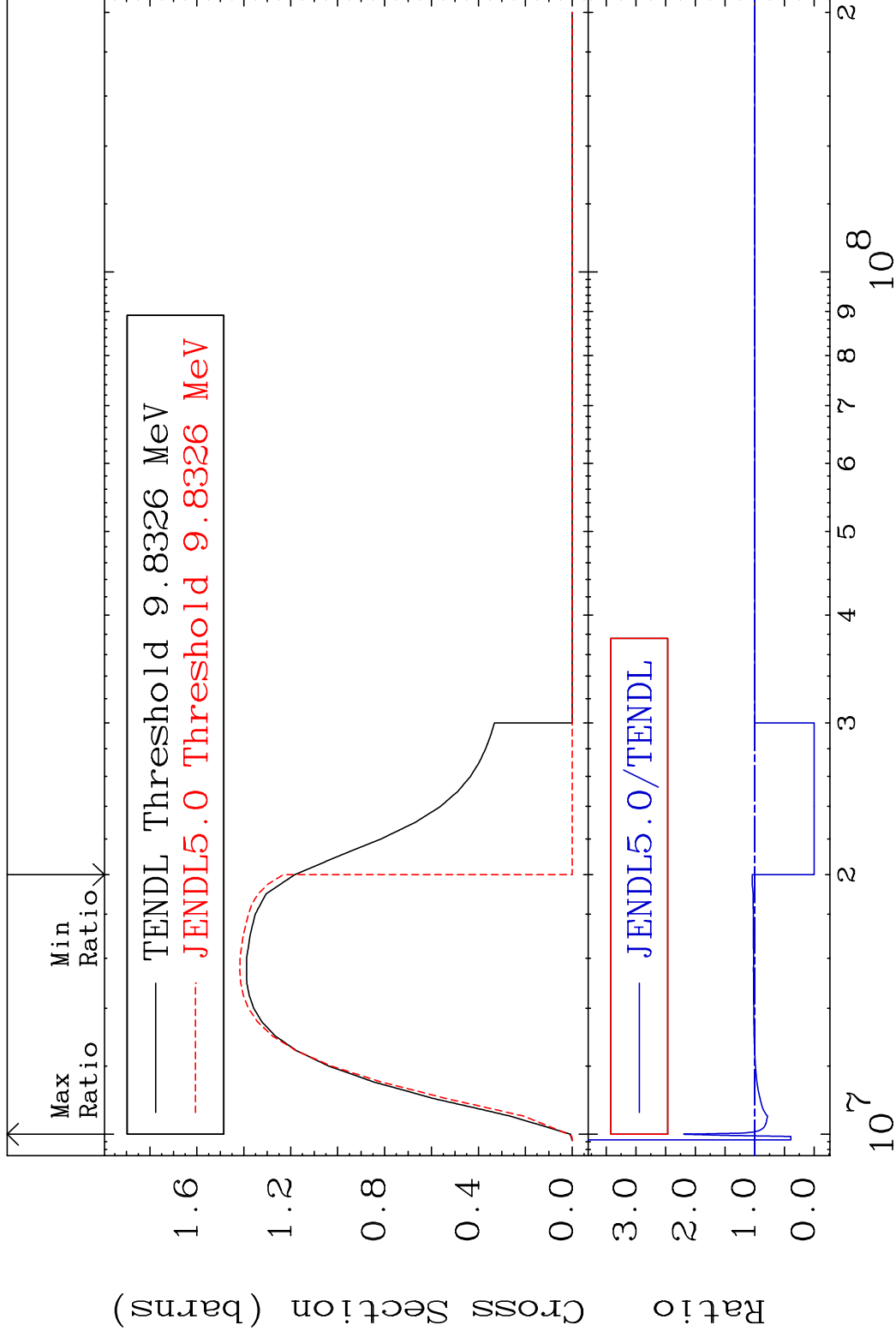
4 45-Rh-101m

MAT 4520

(n,2n)

45-Rh-101m

Cross Section -100.0 To 119.7 %

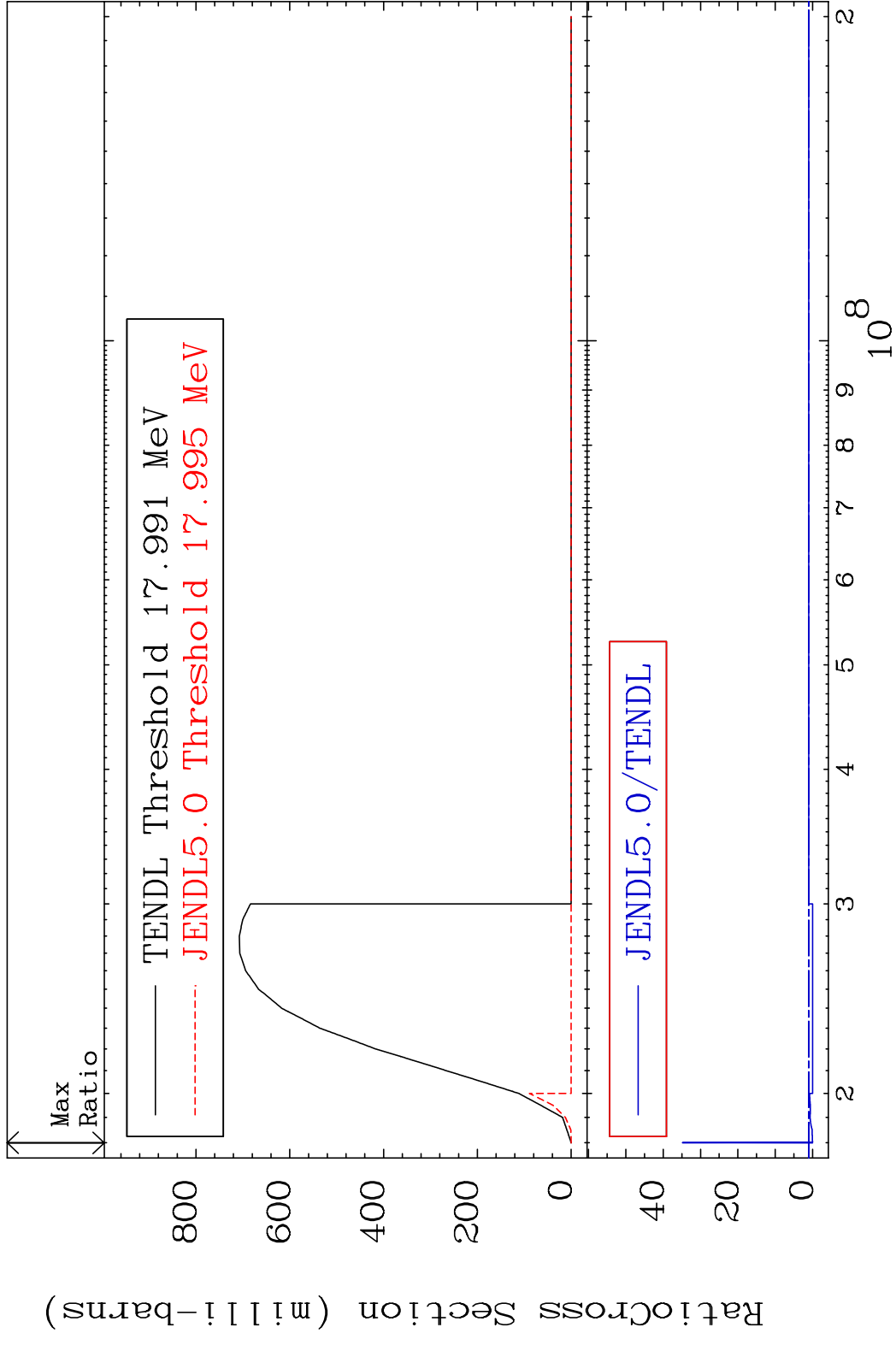


45-Rh-101m

Incident Energy (eV)

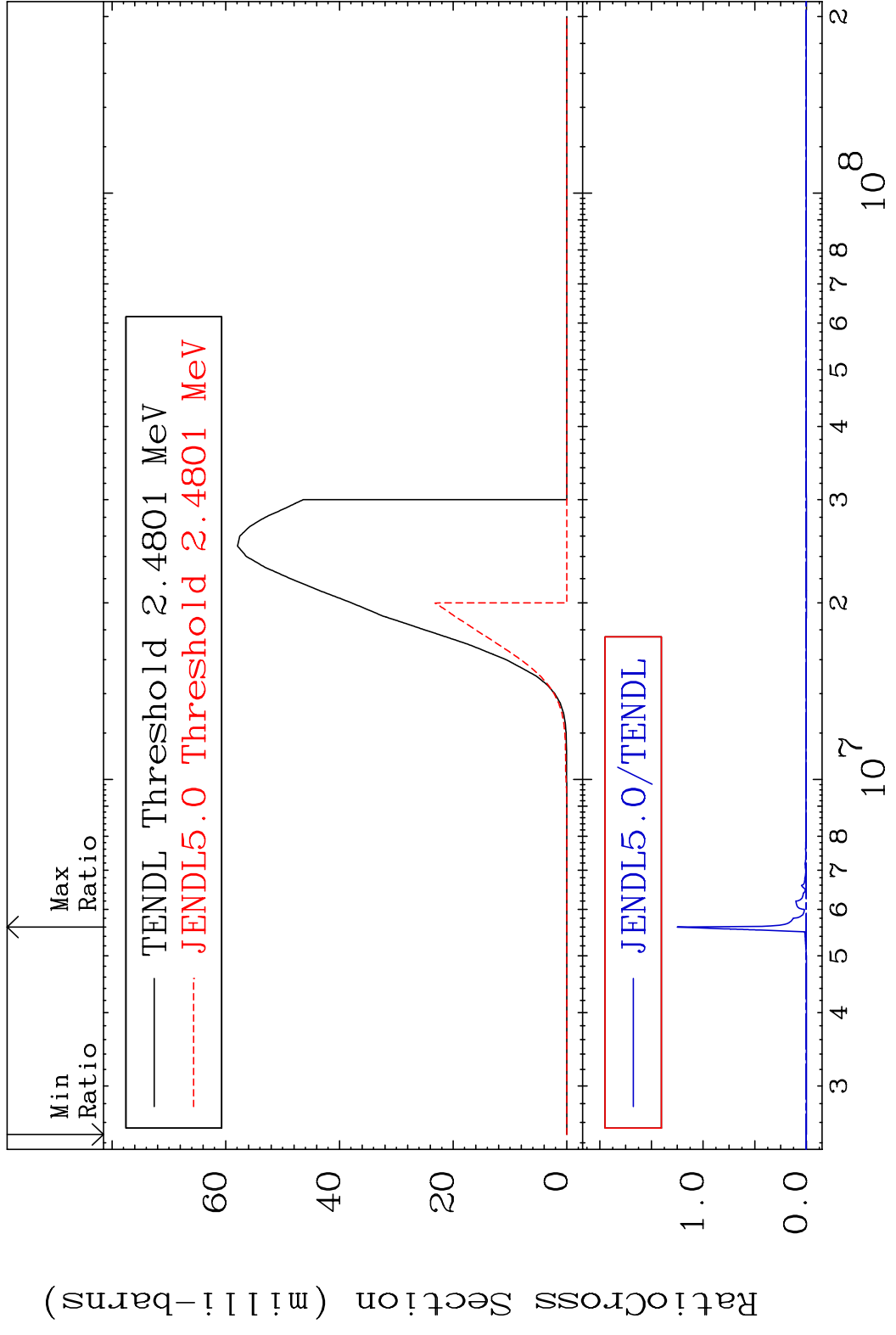
5

MAT 4520 (n,3n) 45-Rh-101m
 Cross Section -100.0 To 3387. %



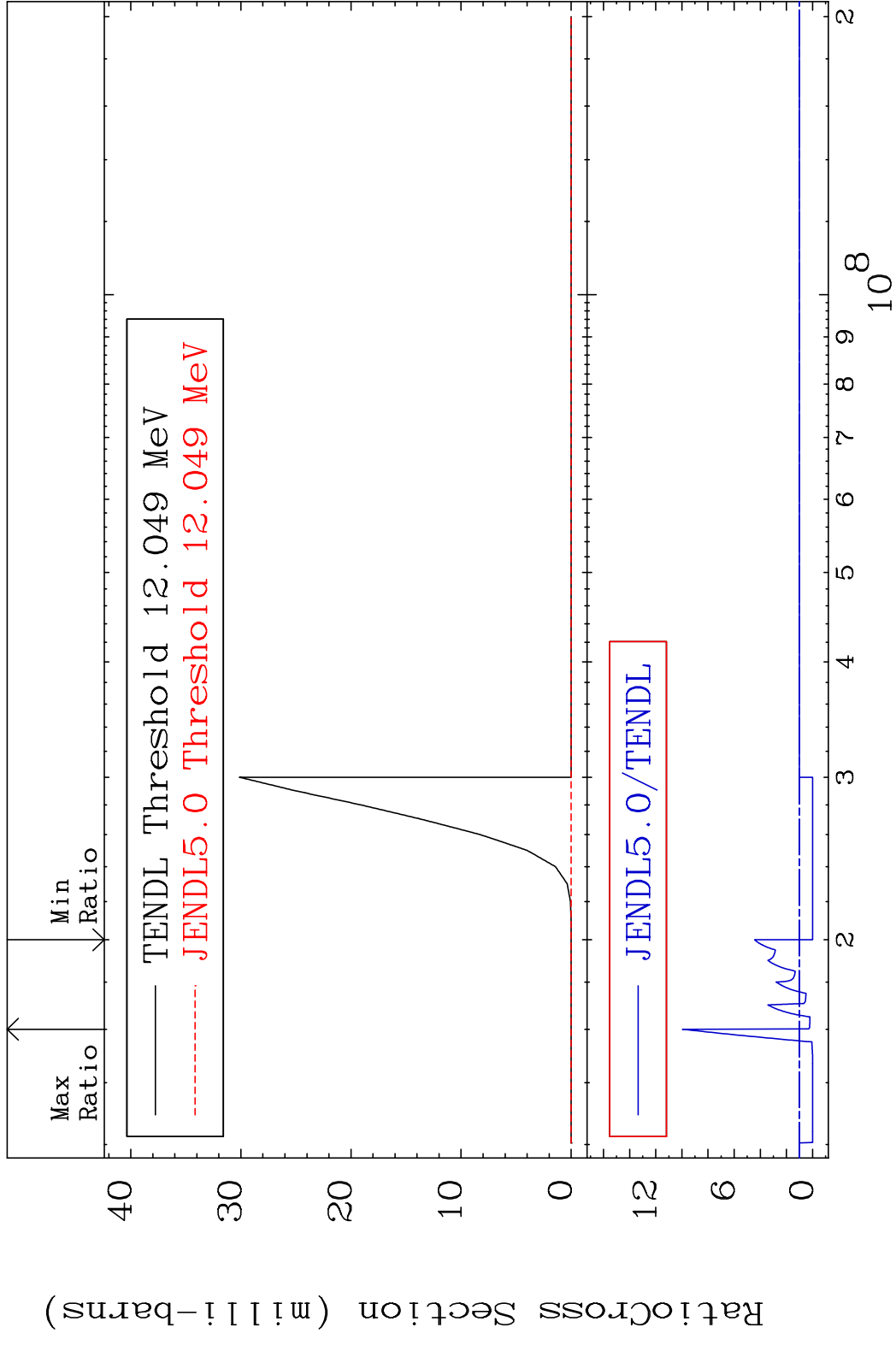
6 Incident Energy (eV) 45-Rh-101m

MAT 4520 (n, n') α 45-Rh-101m
 Cross Section -100.0 To 9999. %

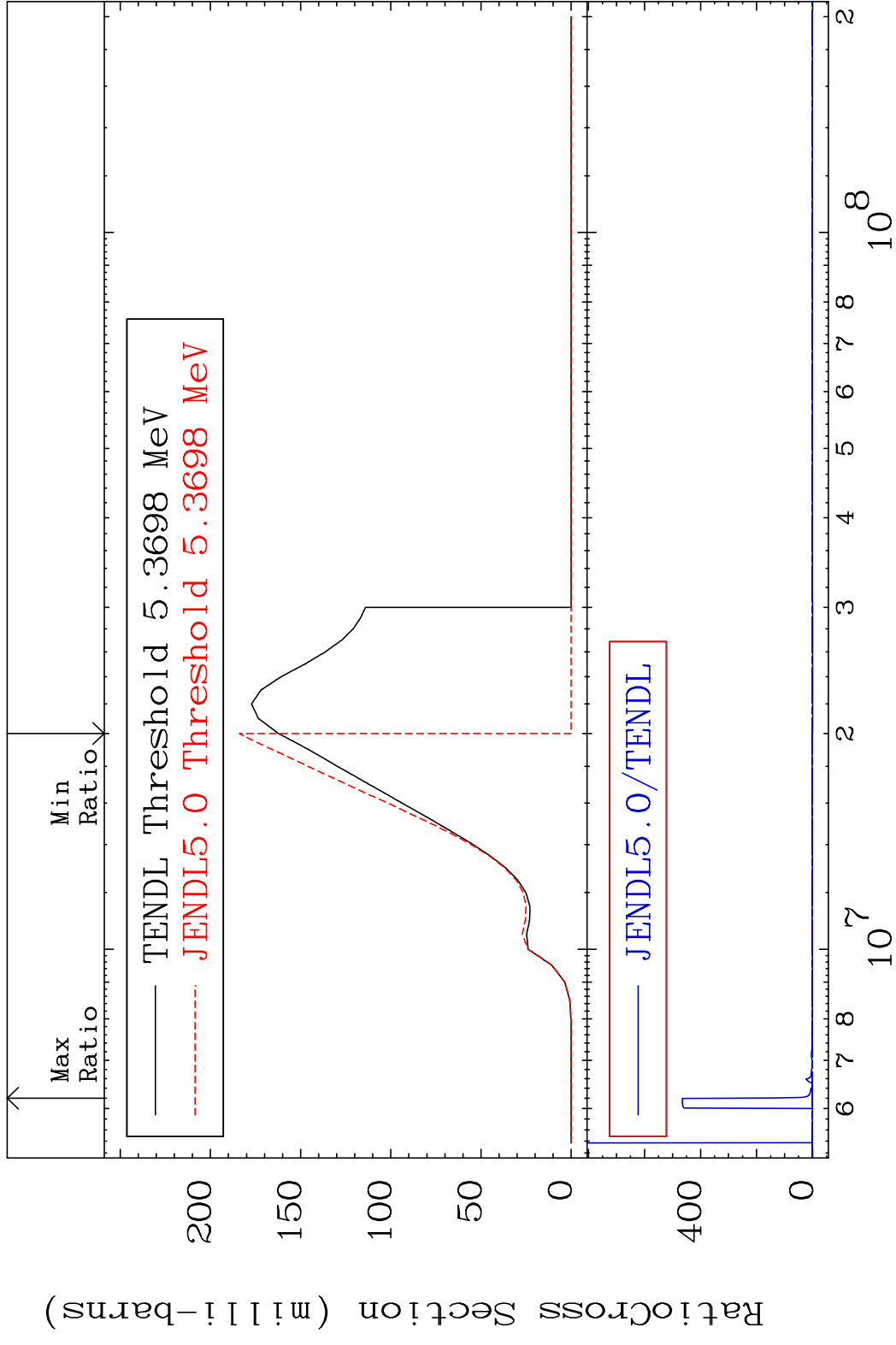


7 45-Rh-101m

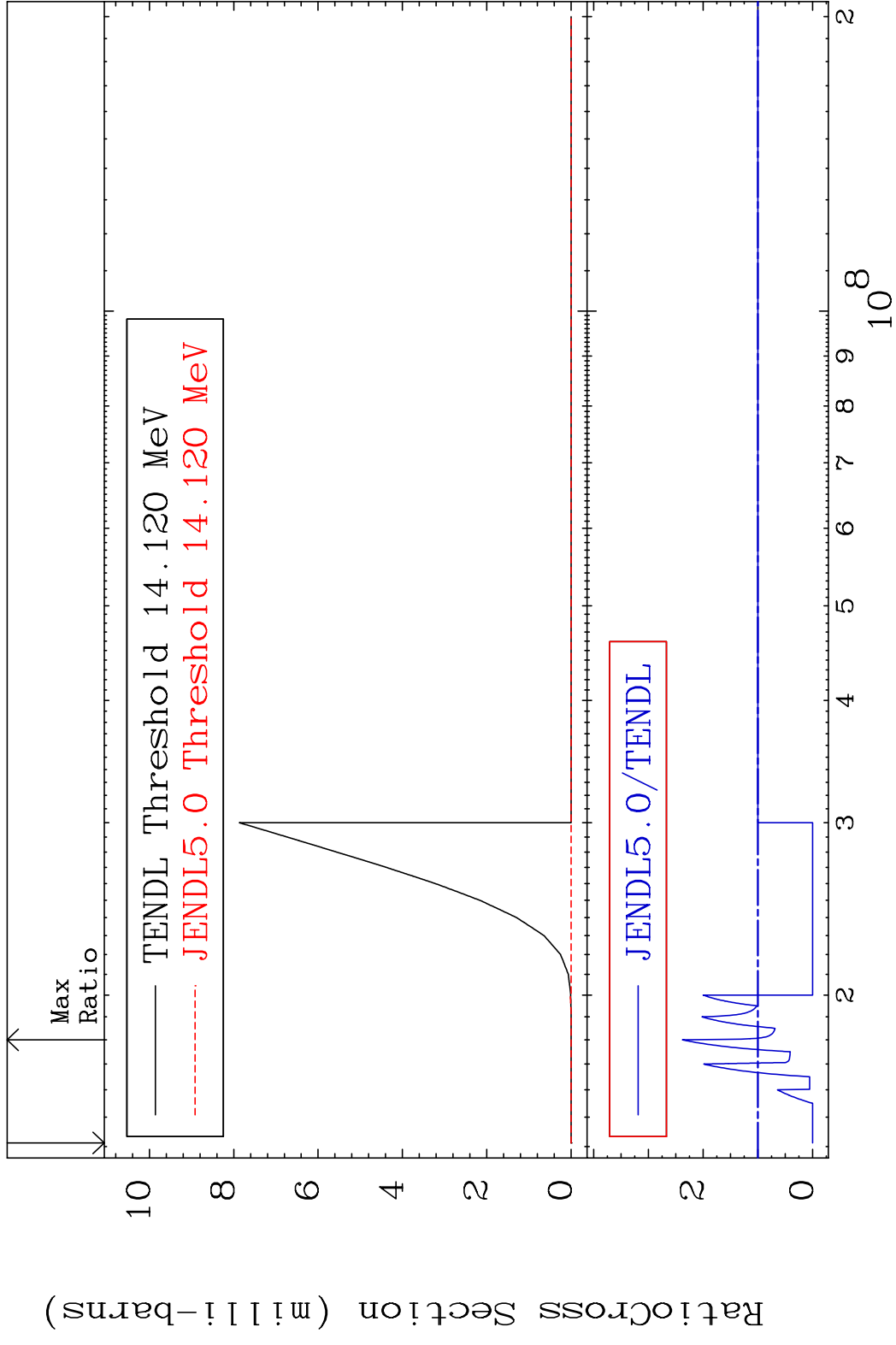
MAT 4520 (n,2n) α 45-Rh-101m
 Cross Section -100.0 To 896.5 %



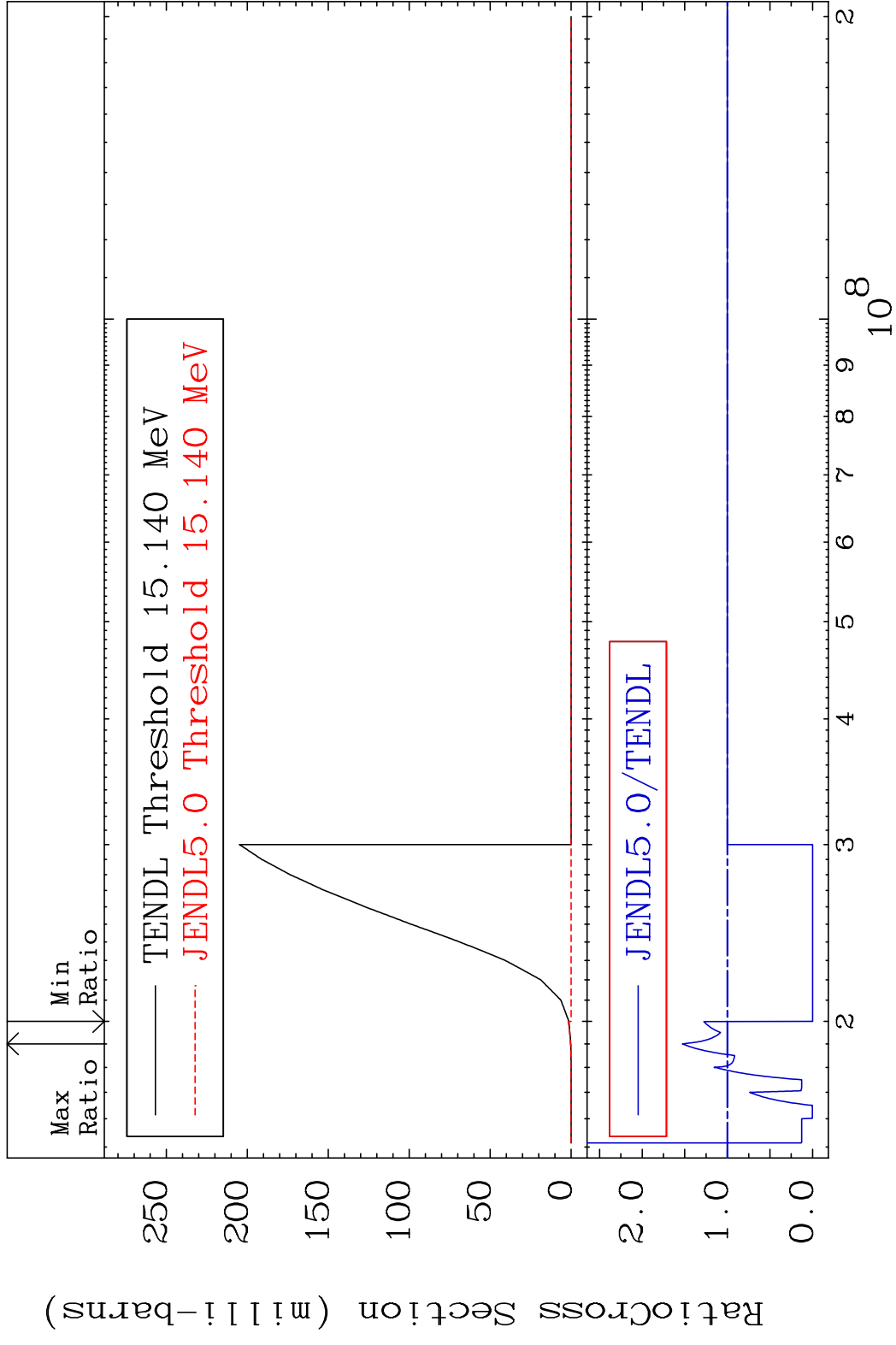
MAT 4520 (n, n') p 45-Rh-101m
 Cross Section -100.0 To 9999. %



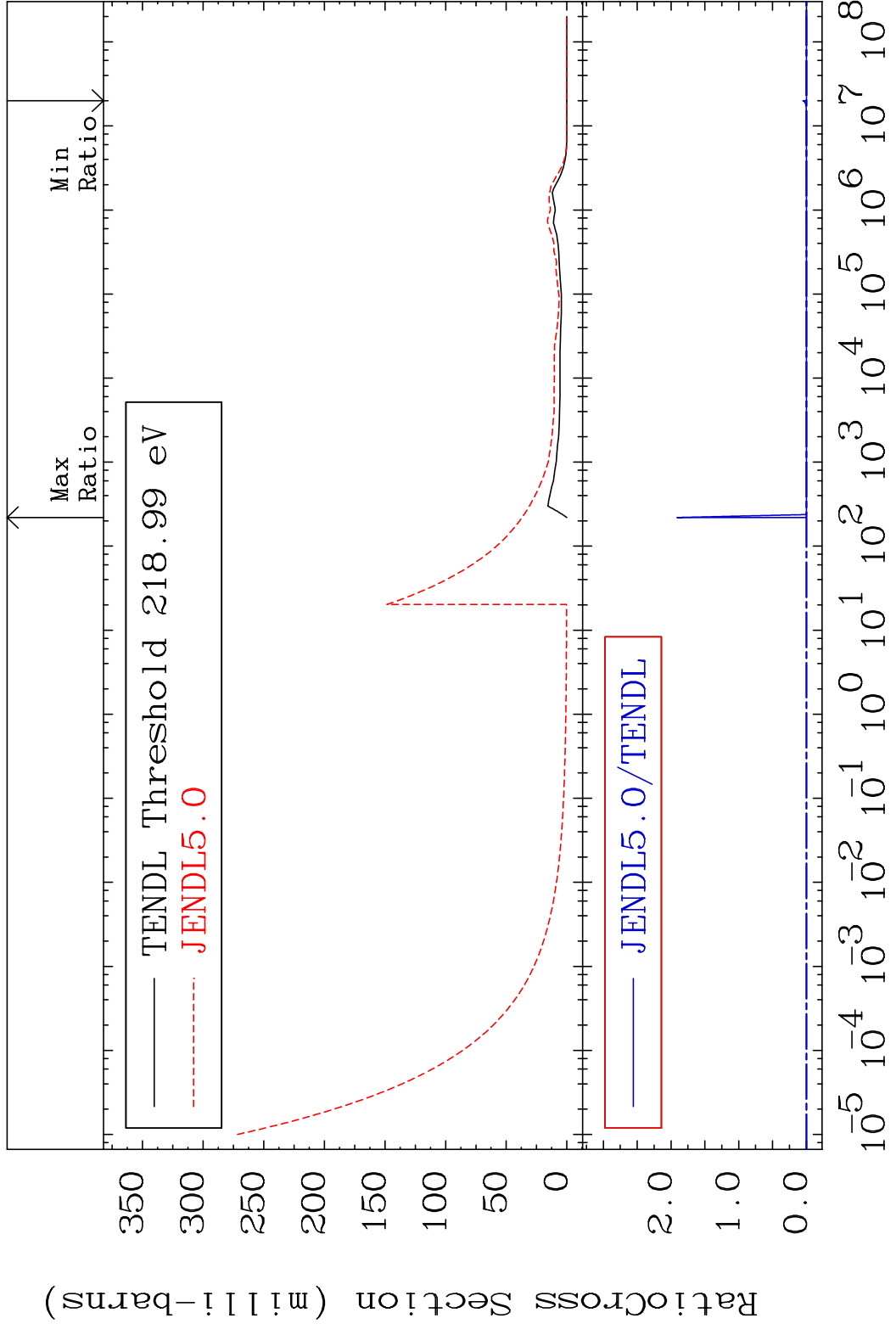
MAT 4520 (n, n') t 45-Rh-101m
 Cross Section -100.0 To 138.0 %



MAT 4520 (n,2n) p 45-Rh-101m
 Cross Section -100.0 To 52.85 %

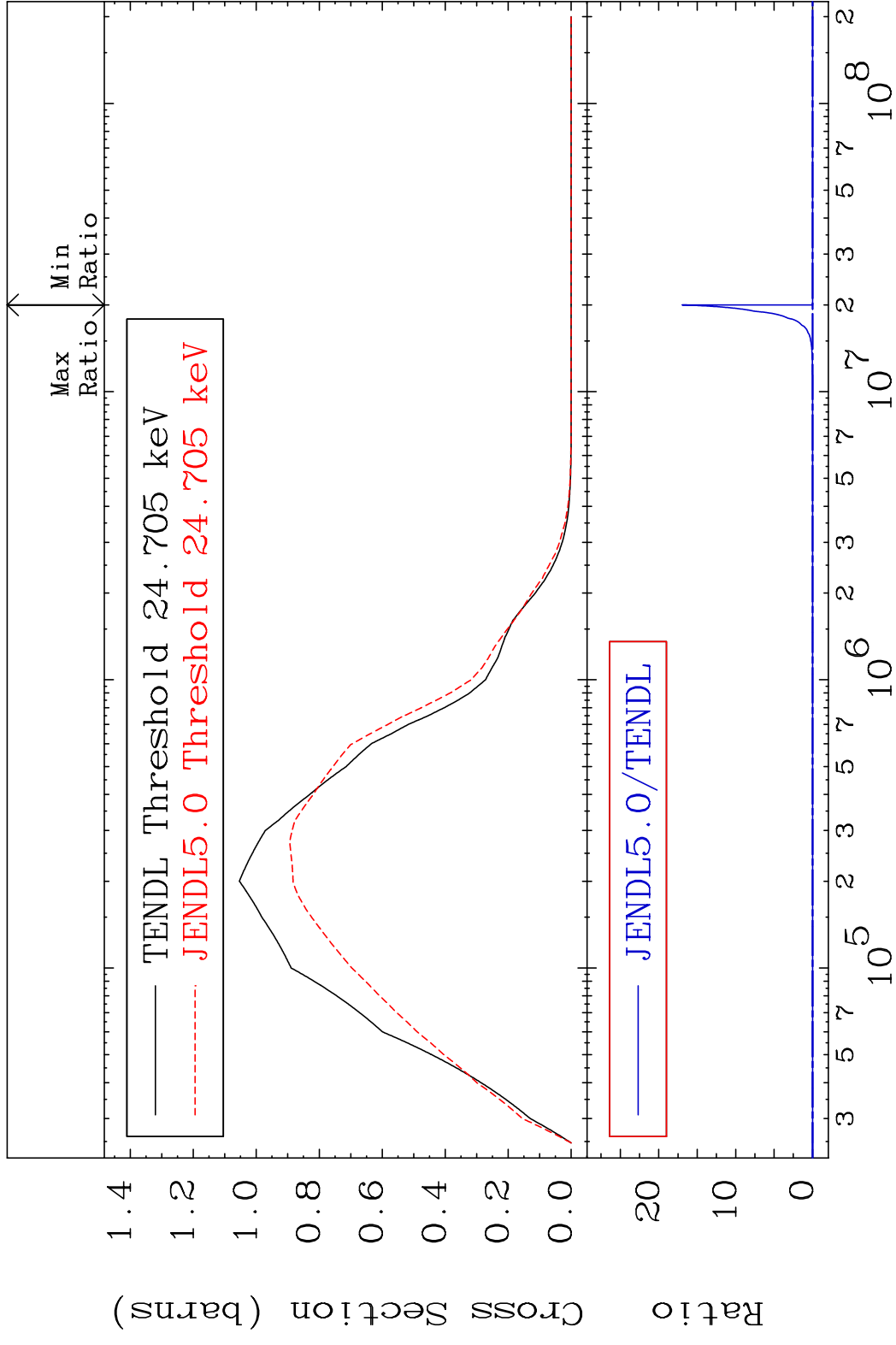


MAT 4520 MT= 51 (n, n') Level 45-Rh-101m
 Cross Section -100.0 To 9999. %

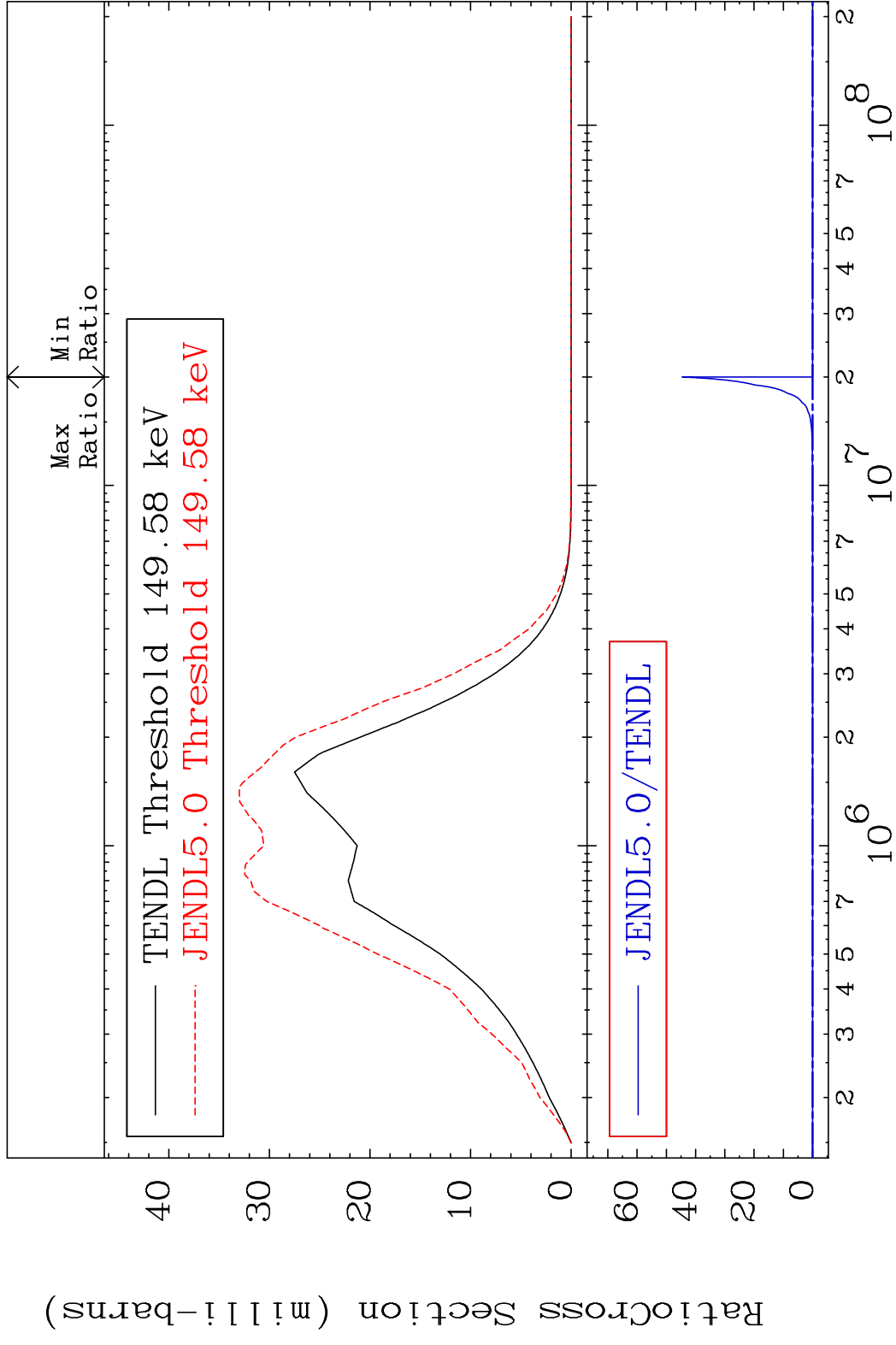


13 Incident Energy (eV) 45-Rh-101m

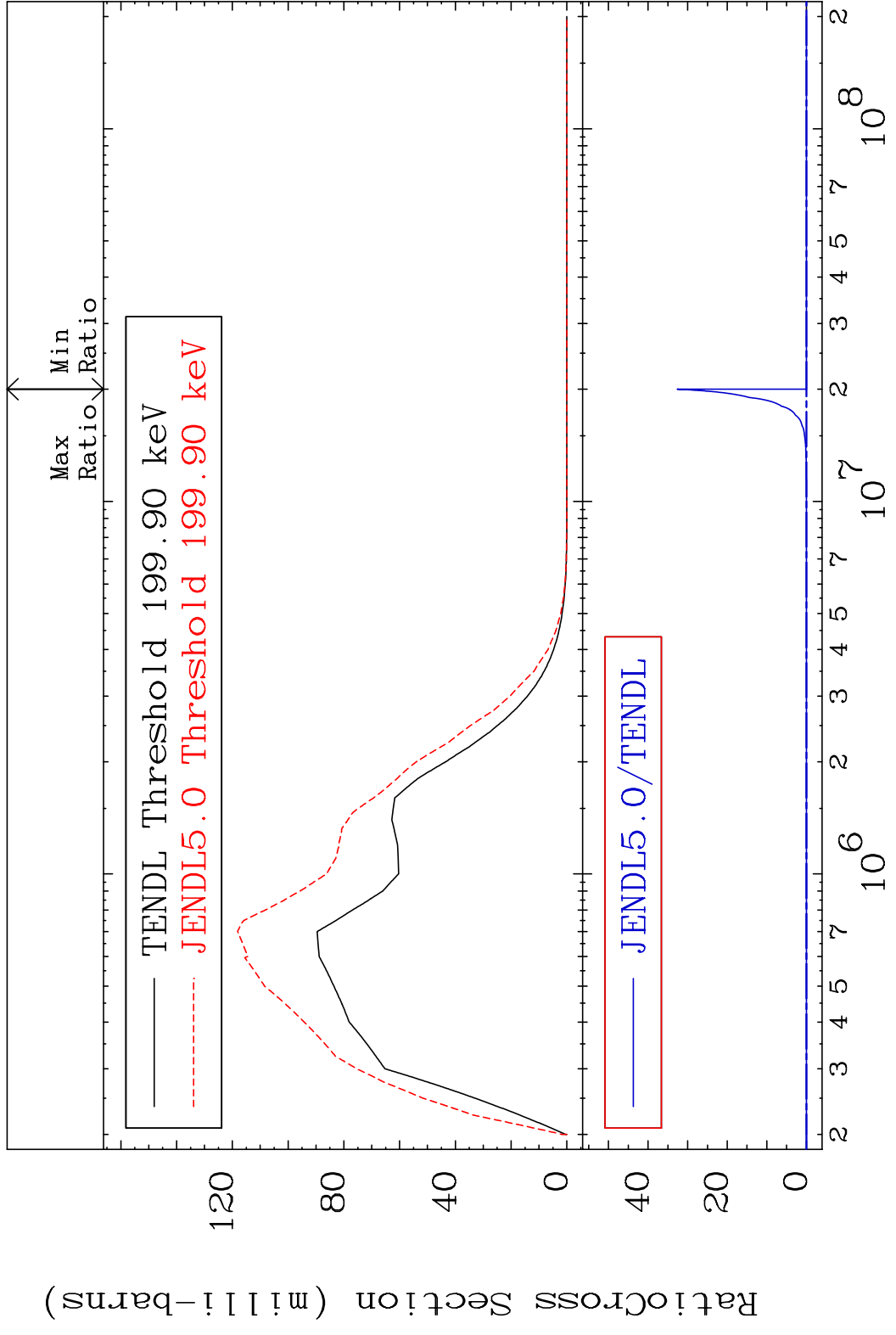
MAT 4520 MT= 52 (n,n') Level 45-Rh-101m
 Cross Section -100.0 To 9999. %



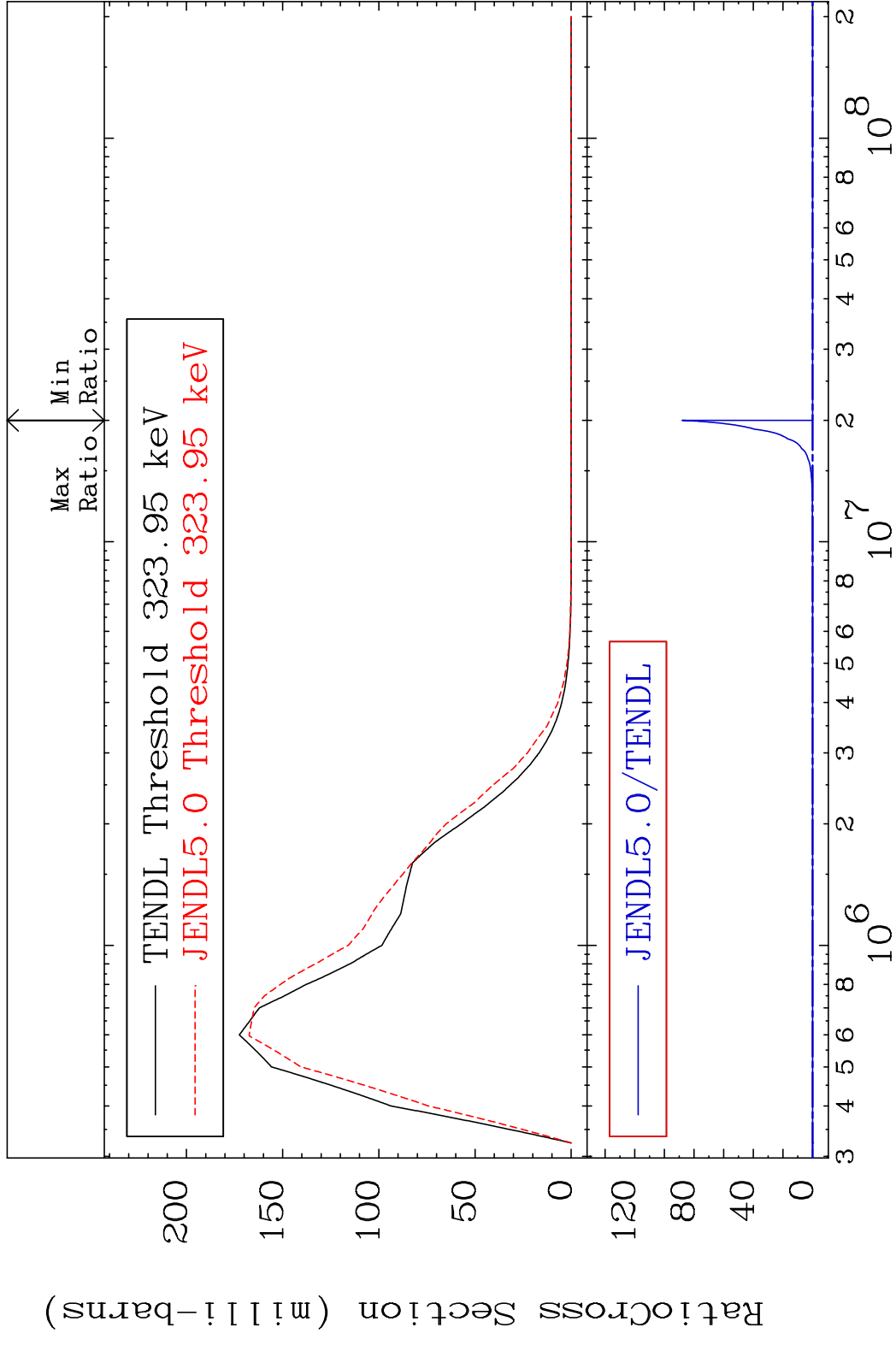
MAT 4520 MT= 53 (n,n') Level 45-Rh-101m
 Cross Section -100.0 To 9999. %



MAT 4520 MT= 54 (n,n') Level 45-Rh-101m
 Cross Section -100.0 To 9999. %

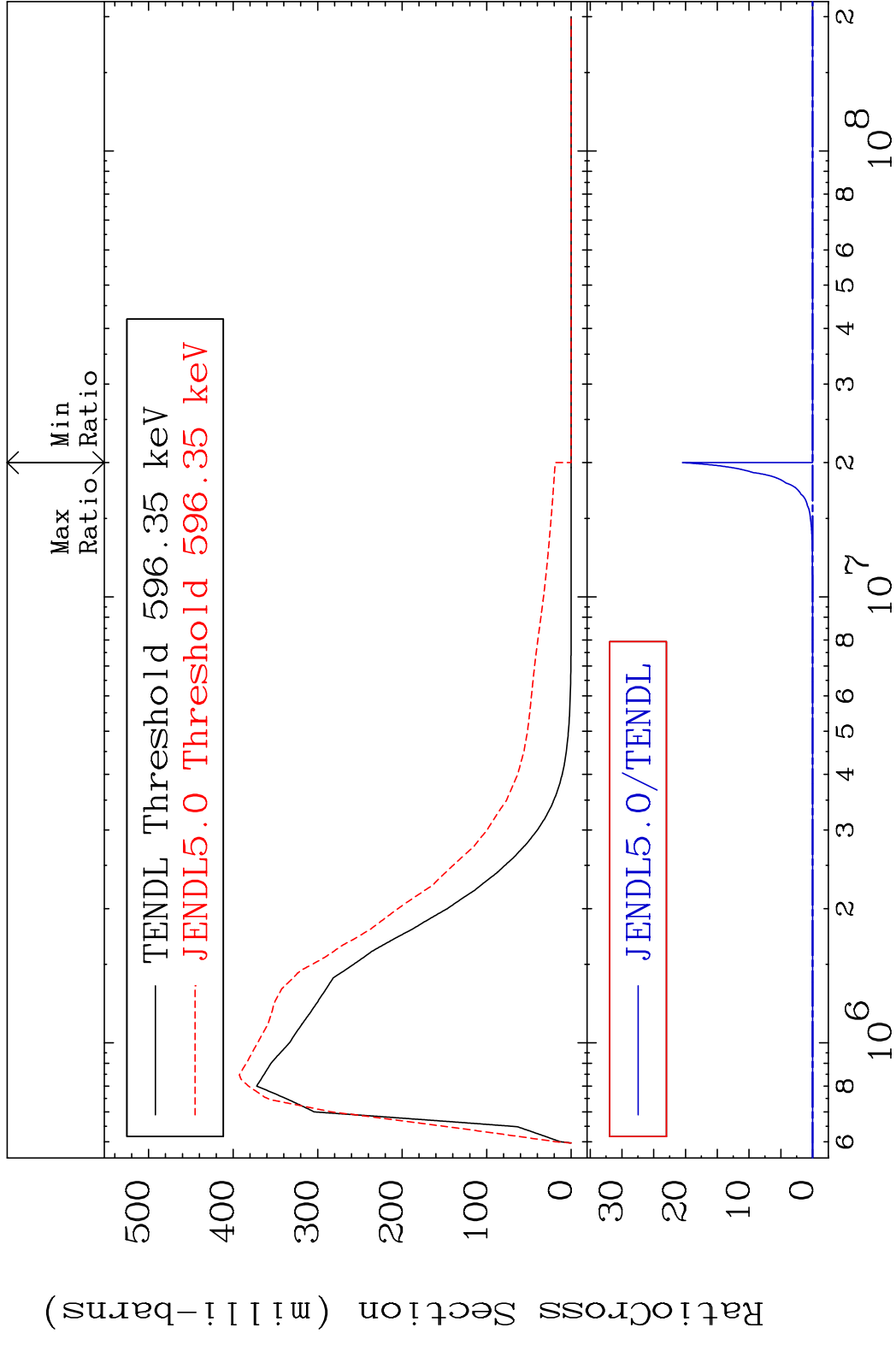


MAT 4520 MT= 55 (n,n') Level 45-Rh-101m
 Cross Section -100.0 To 9999. %



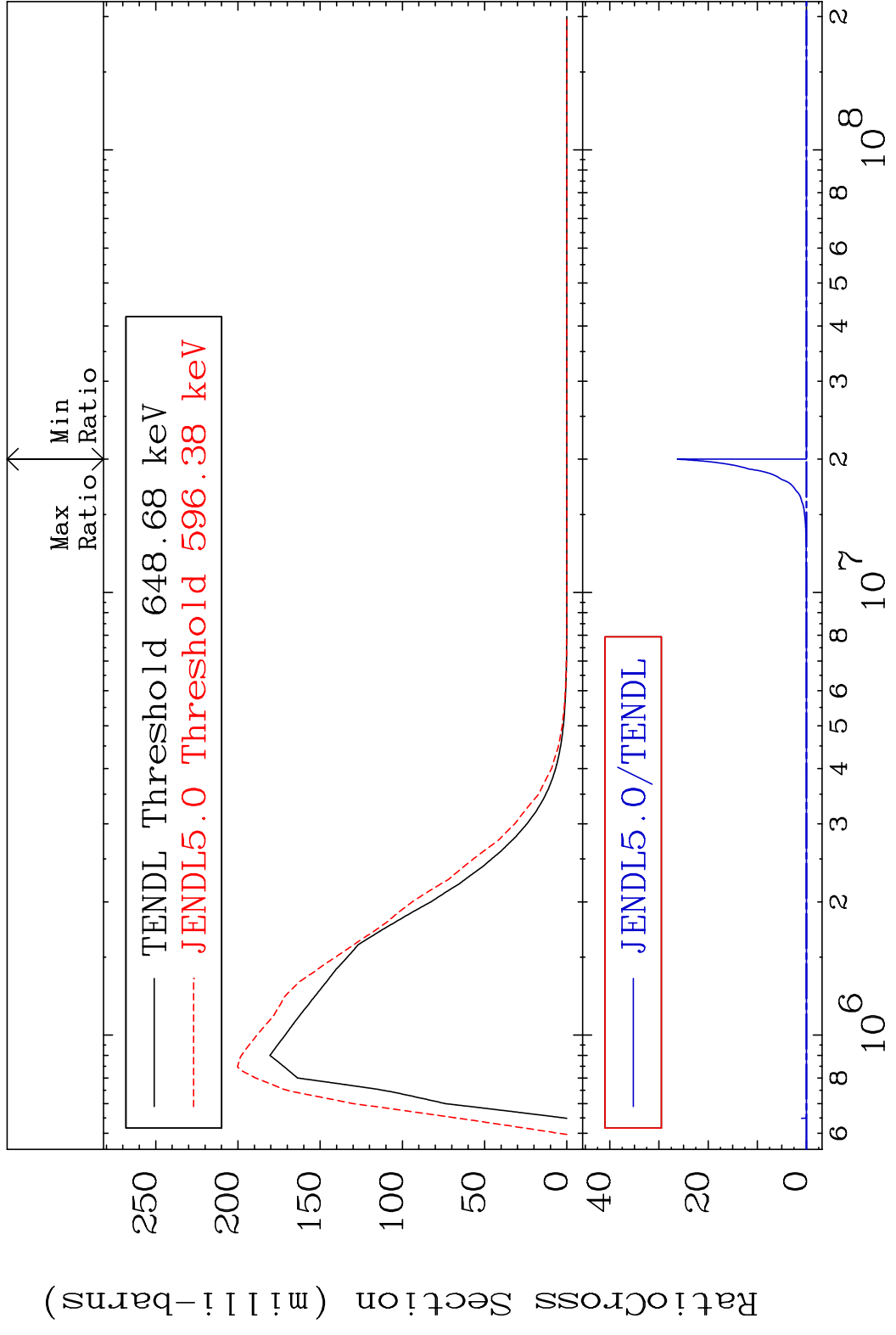
17 45-Rh-101m

MAT 4520 MT= 56 (n, n') Level 45-Rh-101m
 Cross Section -100.0 To 9999. %



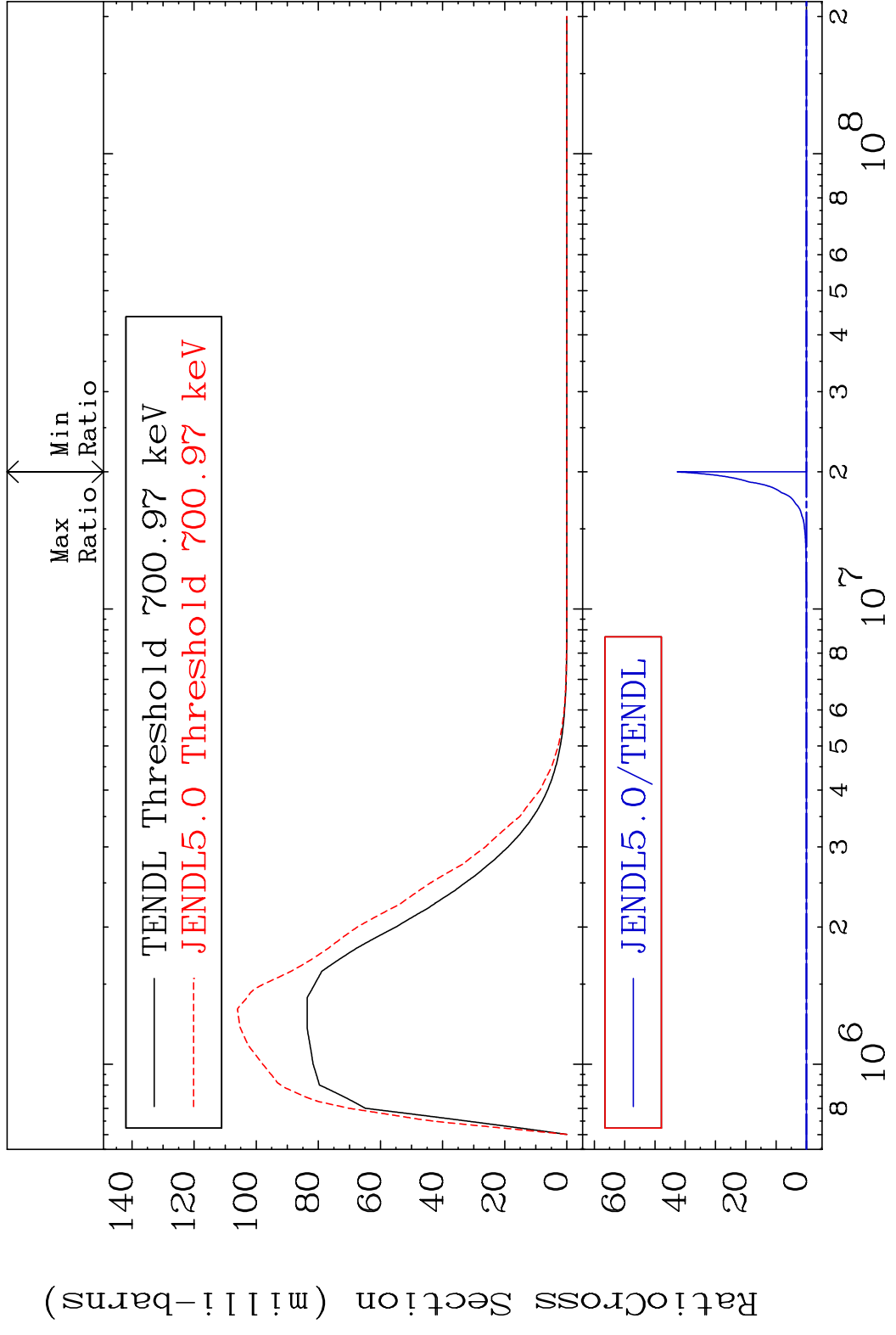
18 45-Rh-101m

MAT 4520 MT= 57 (n, n') Level 45-Rh-101m
 Cross Section -100.0 To 9999. %



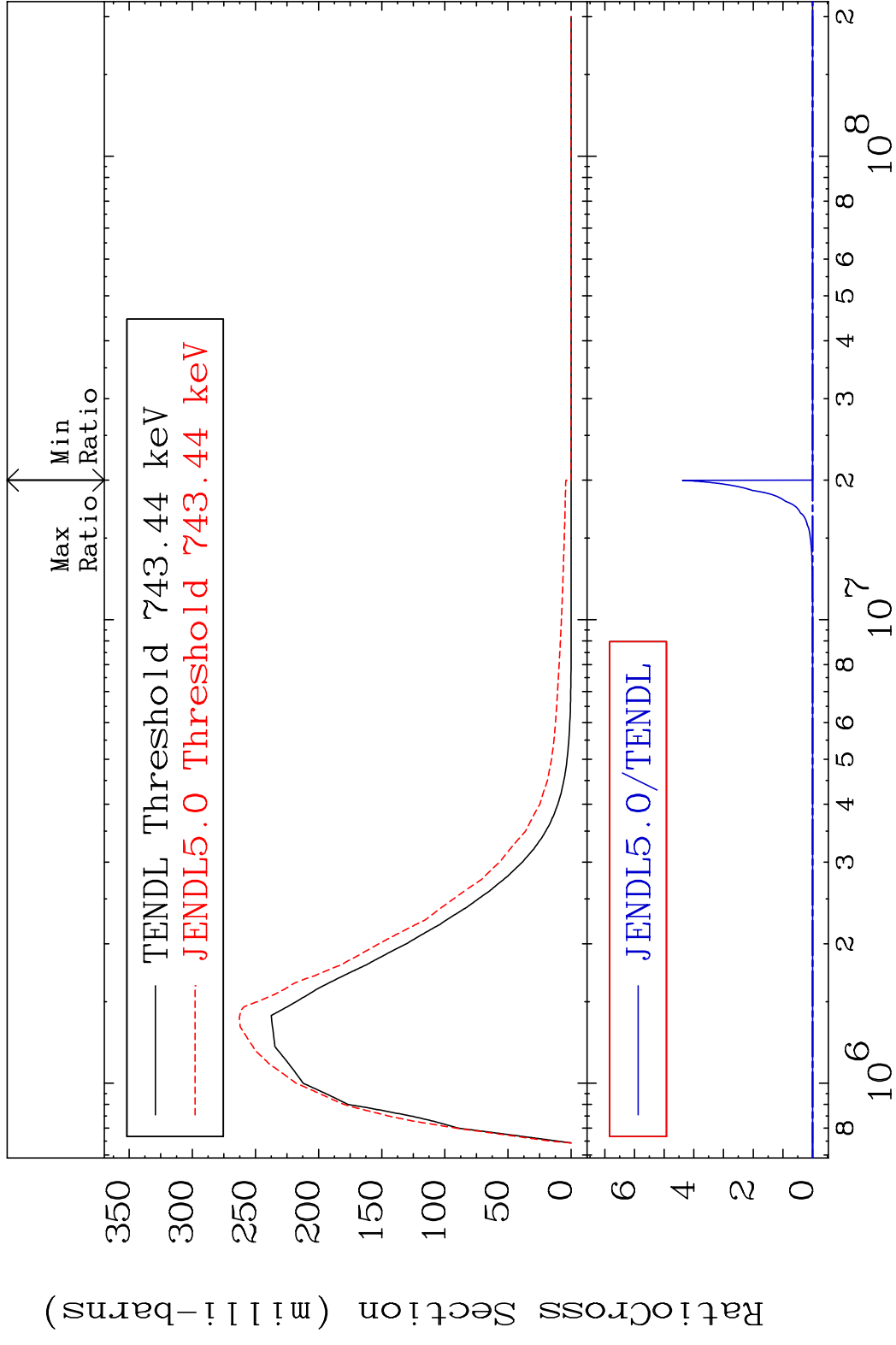
19 45-Rh-101m

MAT 4520 MT= 58 (n, n') Level 45-Rh-101m
 Cross Section -100.0 To 9999. %

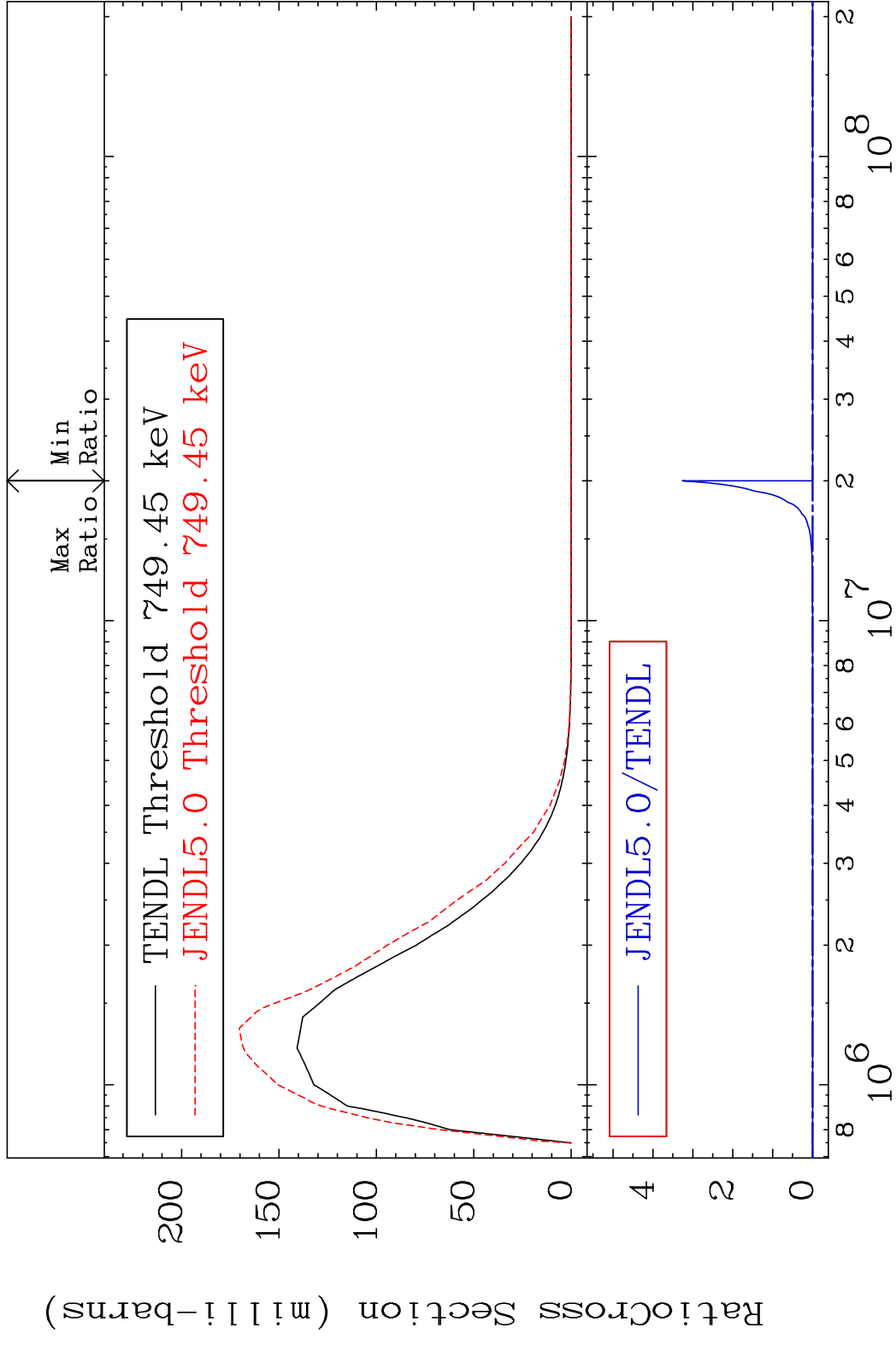


20 Incident Energy (eV) 45-Rh-101m

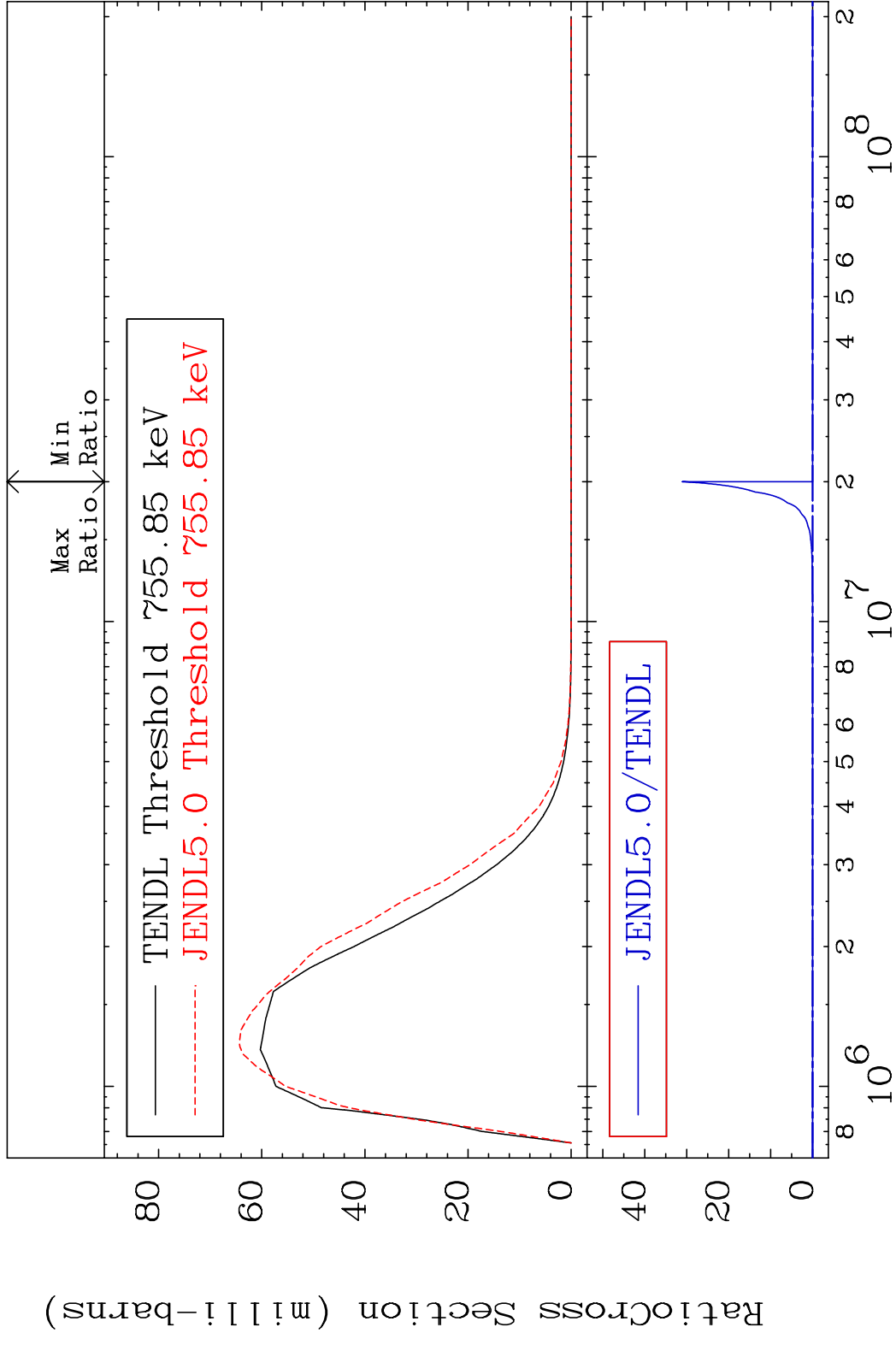
MAT 4520 MT= 59 (n, n') Level 45-Rh-101m
 Cross Section -100.0 To 9999. %



MAT 4520 MT= 60 (n, n') Level 45-Rh-101m
 Cross Section -100.0 To 9999. %

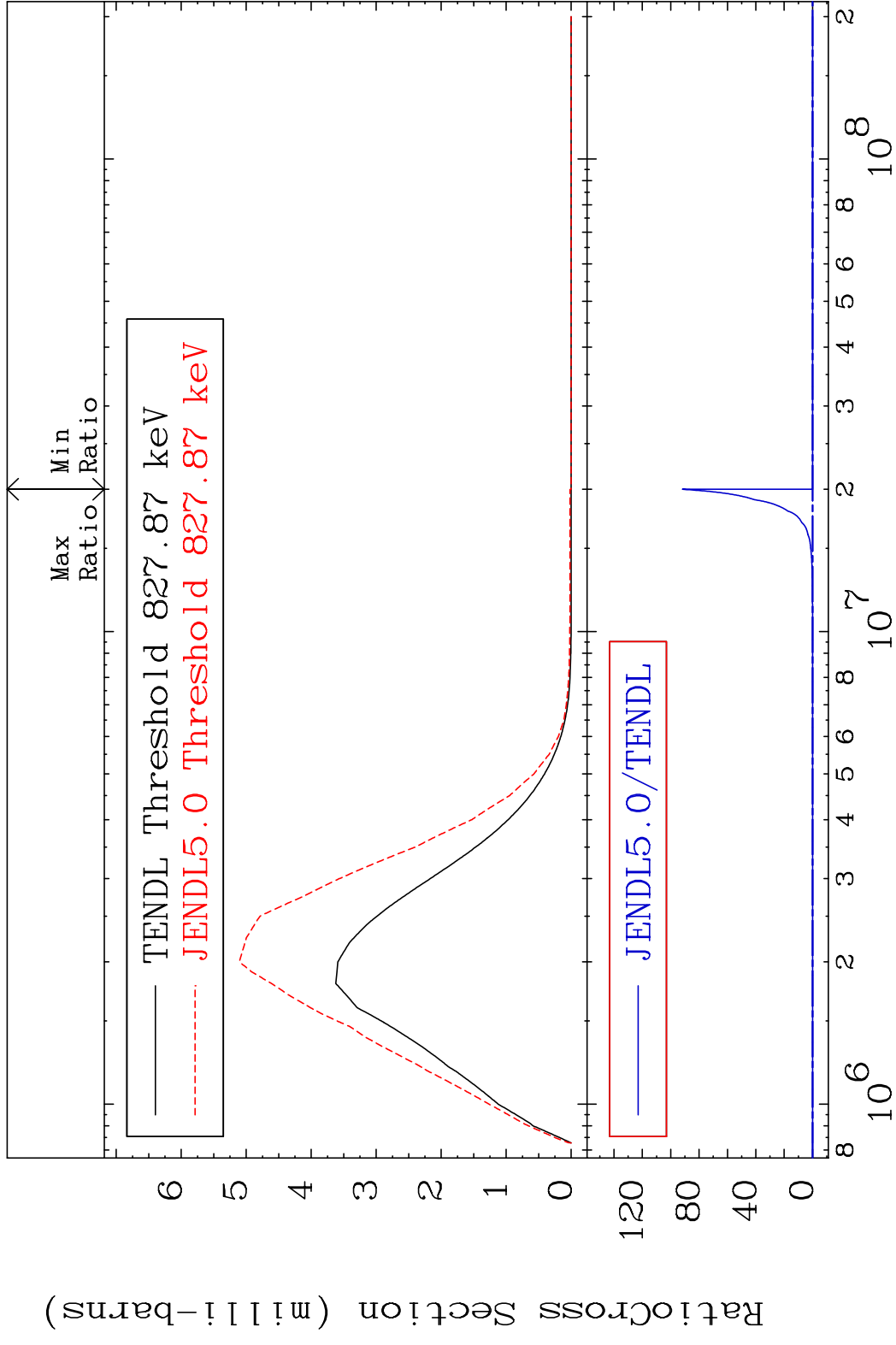


MAT 4520 MT= 61 (n, n') Level 45-Rh-101m
 Cross Section -100.0 To 9999. %



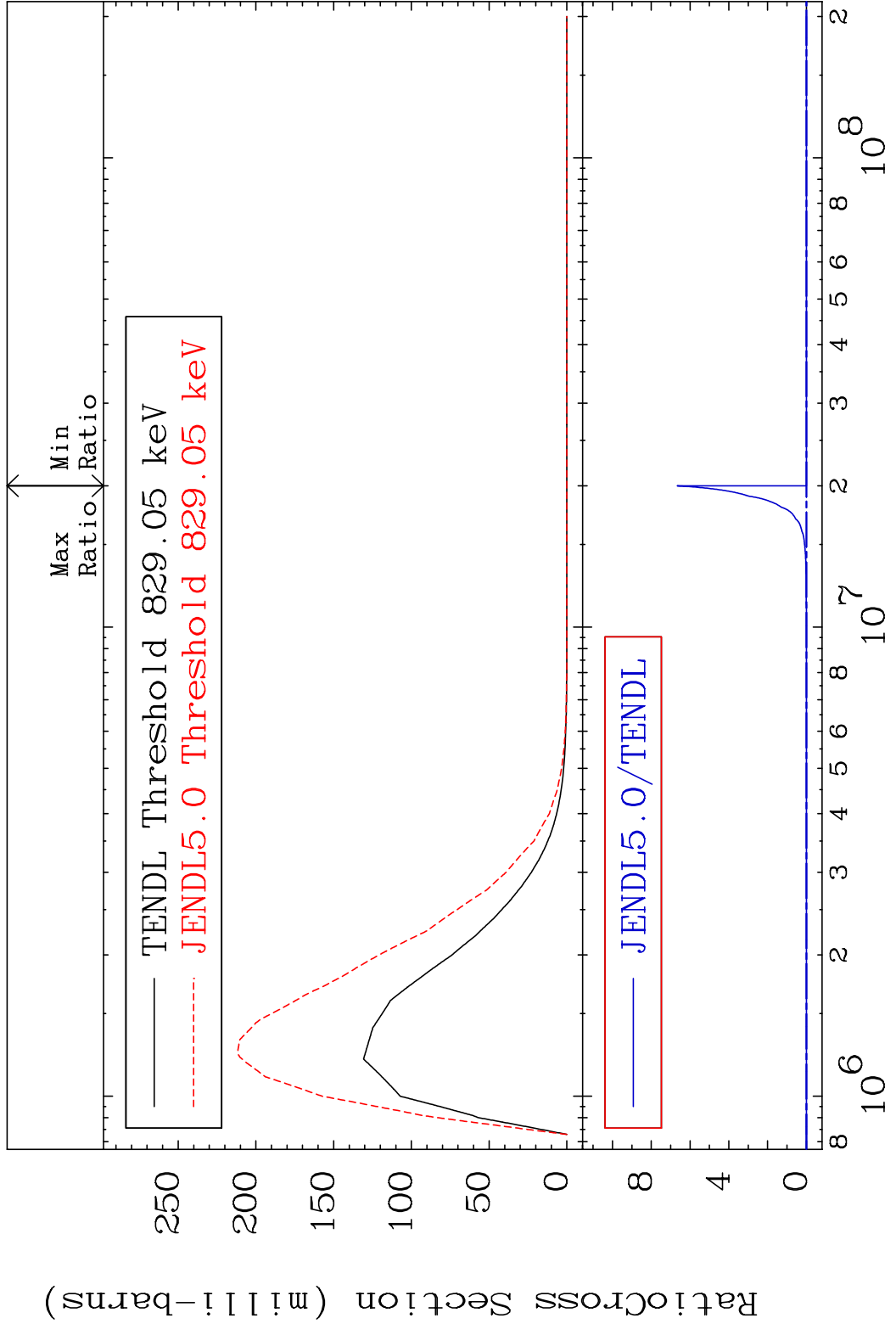
23 45-Rh-101m

MAT 4520 MT= 62 (n, n') Level 45-Rh-101m
 Cross Section -100.0 To 9999. %

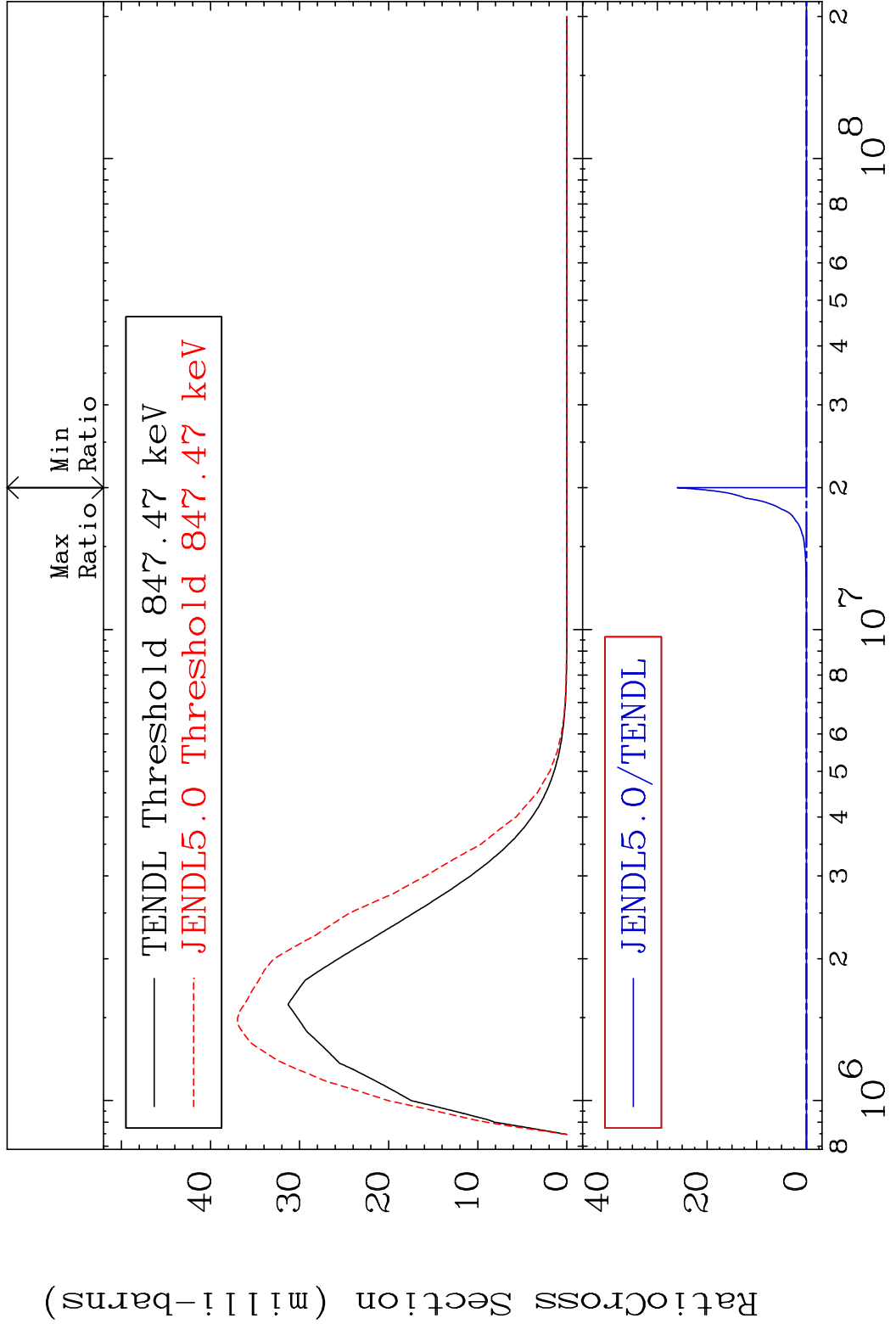


24 Incident Energy (eV) 45-Rh-101m

MAT 4520 MT= 63 (n, n') Level 45-Rh-101m
 Cross Section -100.0 To 9999. %

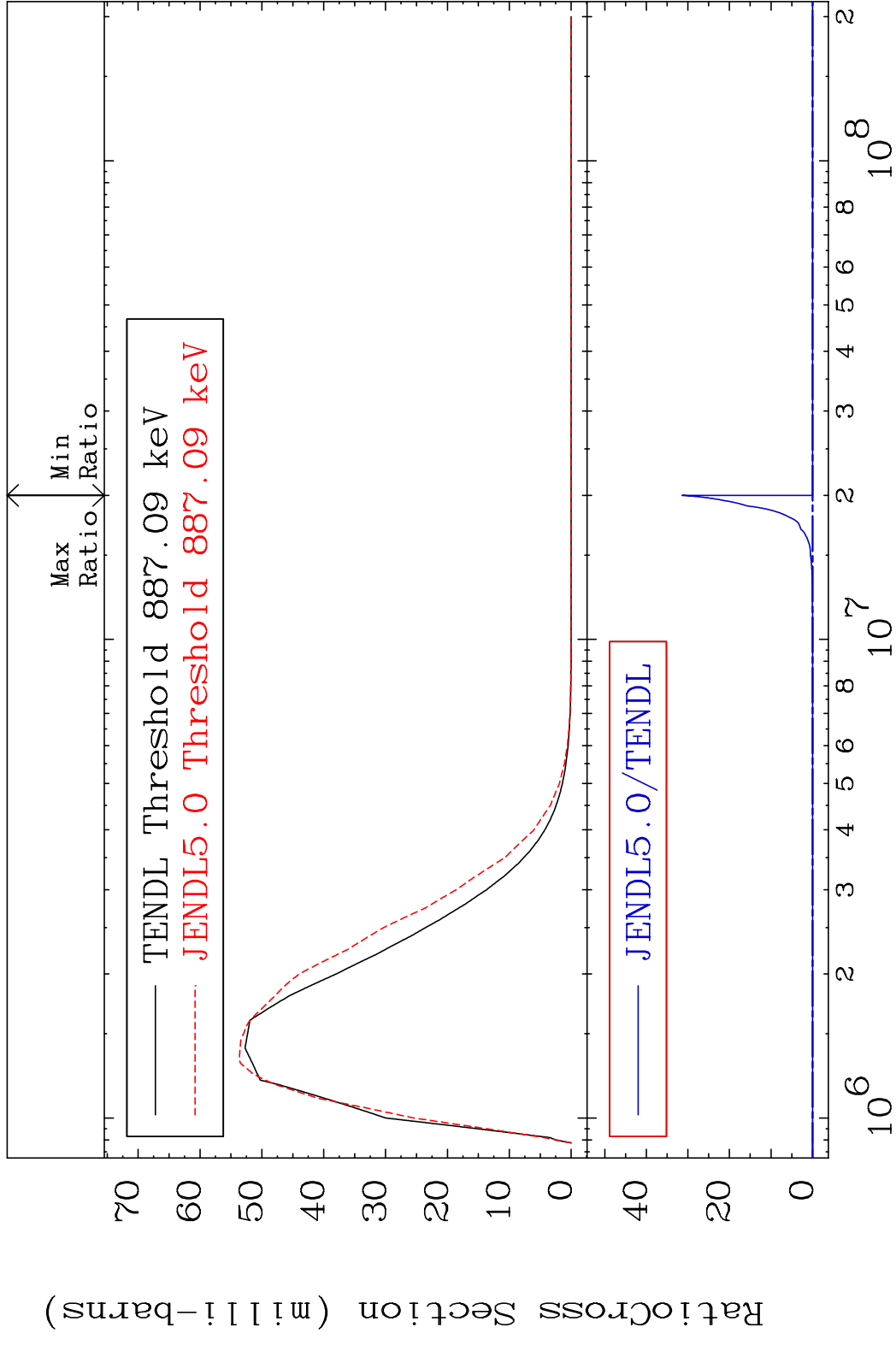


MAT 4520 MT= 64 (n, n') Level 45-Rh-101m
Cross Section -100.0 To 9999. %



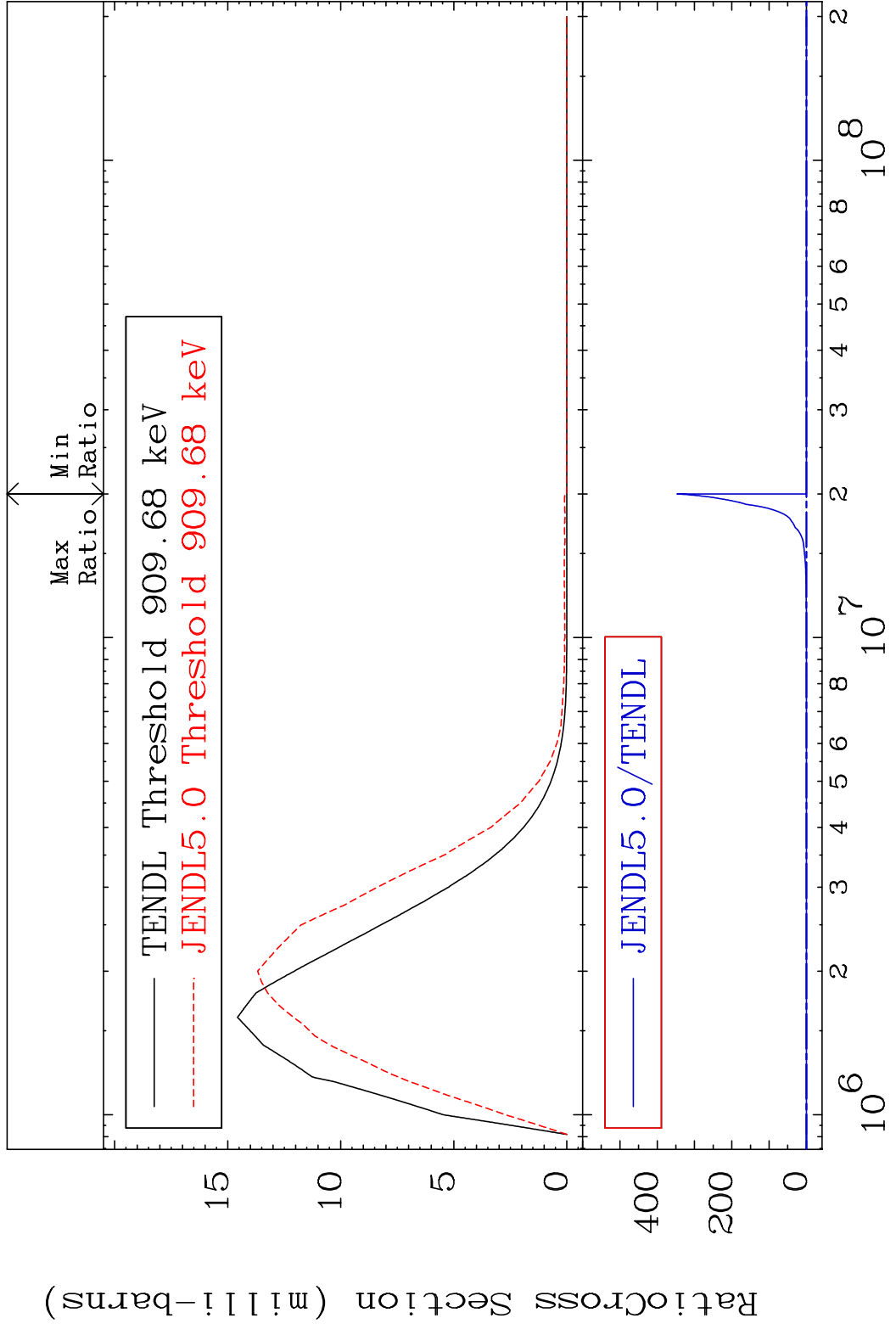
26 Incident Energy (eV) 45-Rh-101m

MAT 4520 MT= 65 (n, n') Level 45-Rh-101m
 Cross Section -100.0 To 9999. %



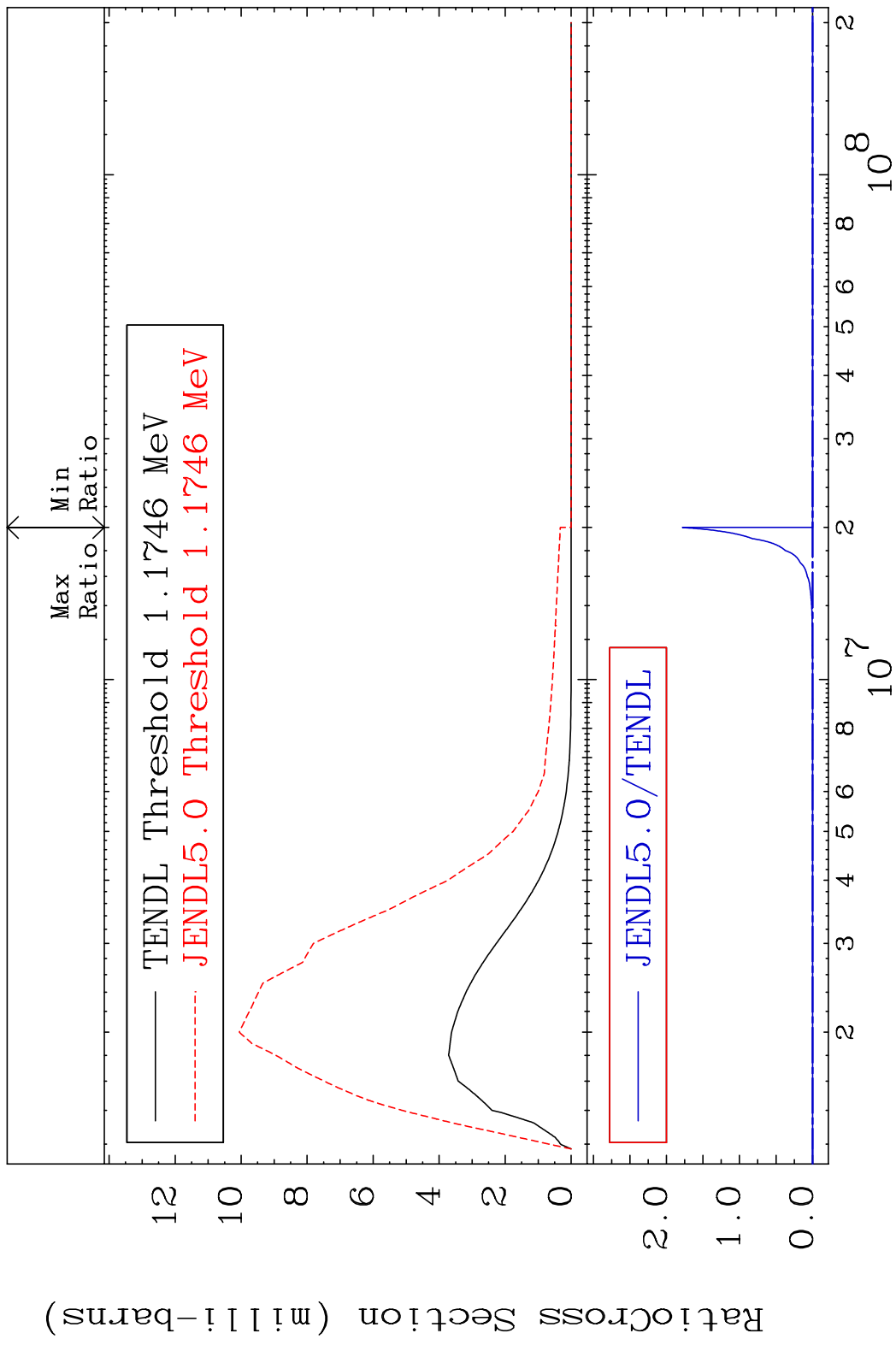
27 Incident Energy (eV) 45-Rh-101m

MAT 4520 MT= 66 (n, n') Level 45-Rh-101m
 Cross Section -100.0 To 9999. %

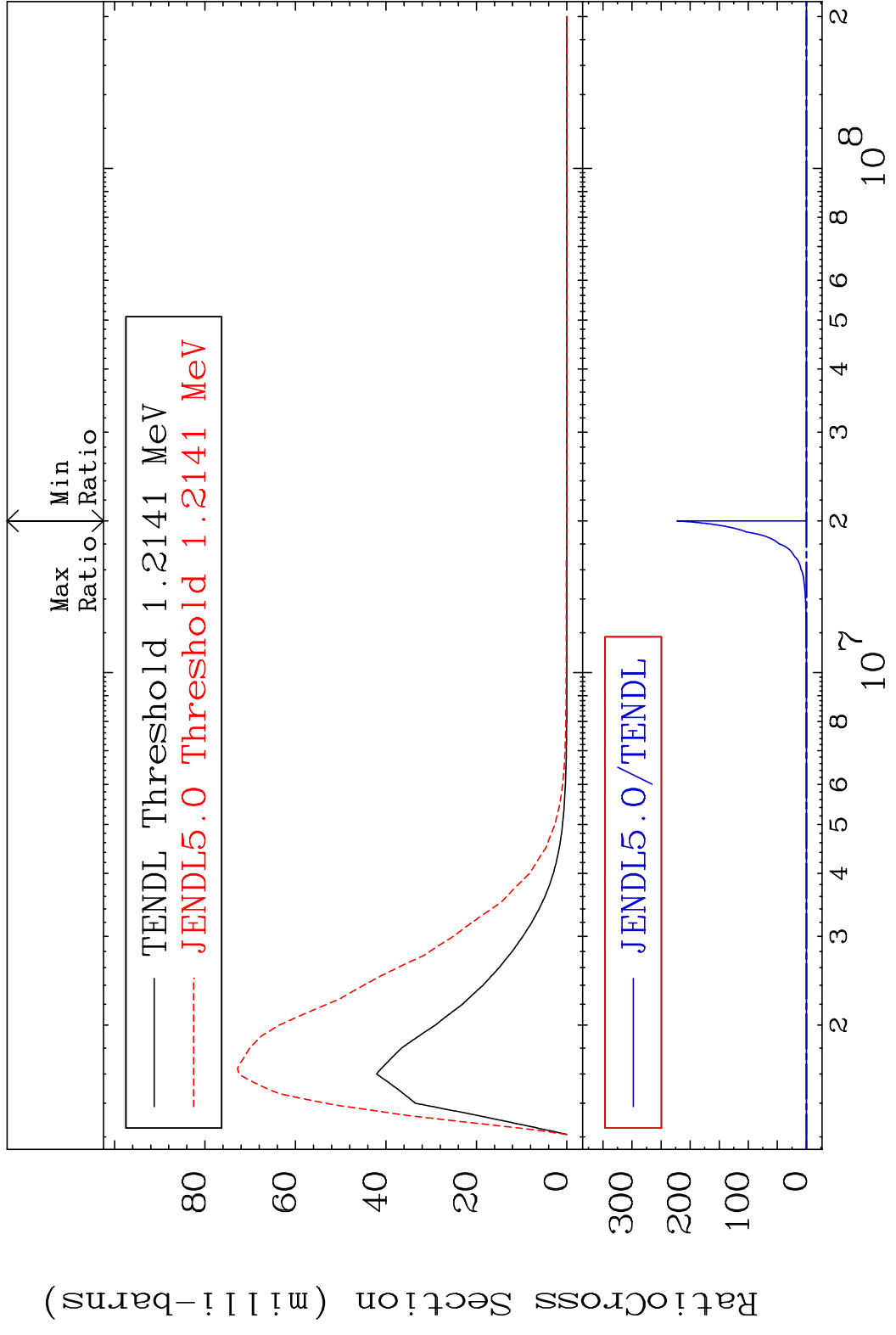


28 45-Rh-101m

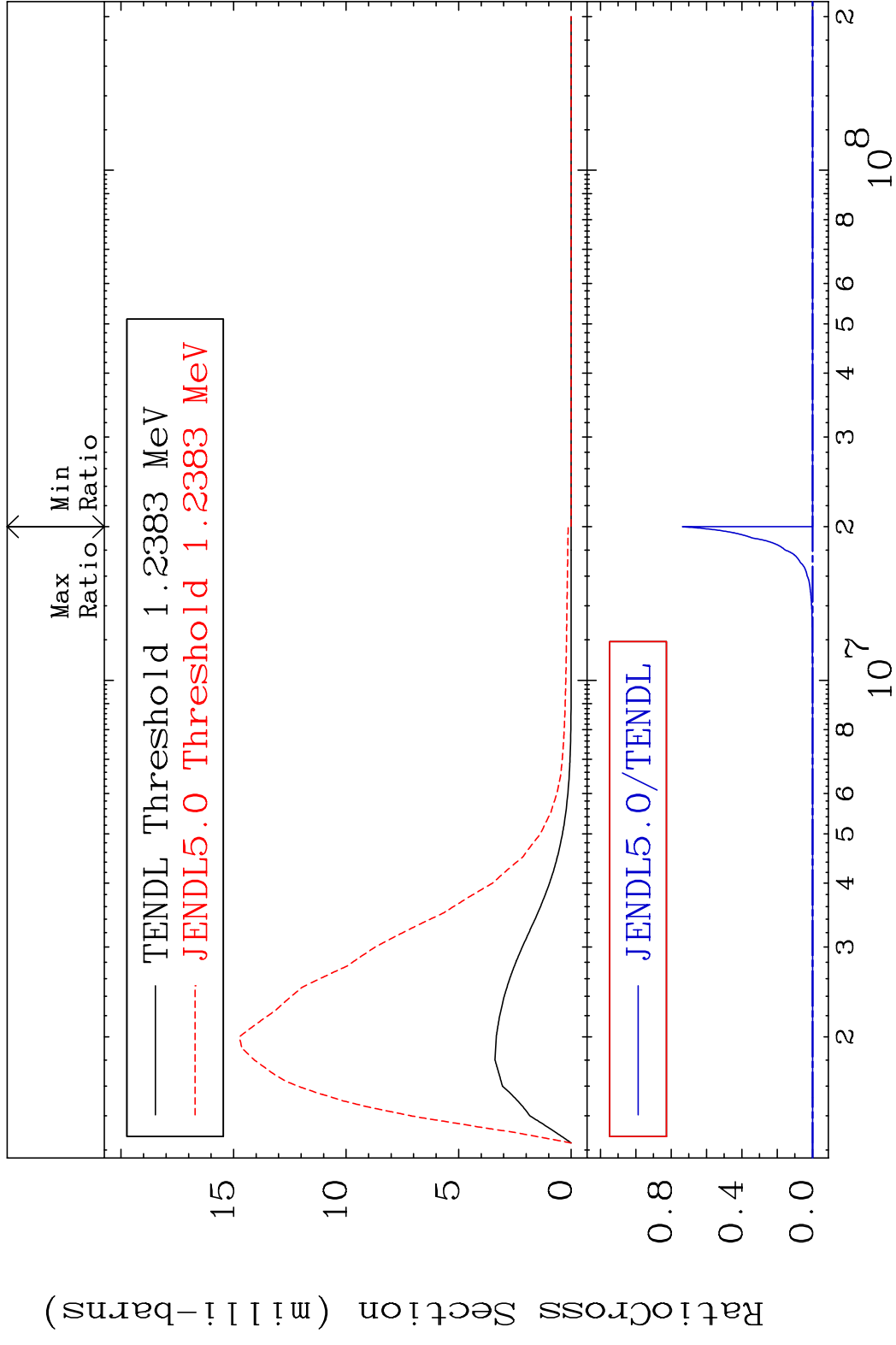
MAT 4520 MT= 67 (n, n') Level 45-Rh-101m
 Cross Section -100.0 To 9999. %



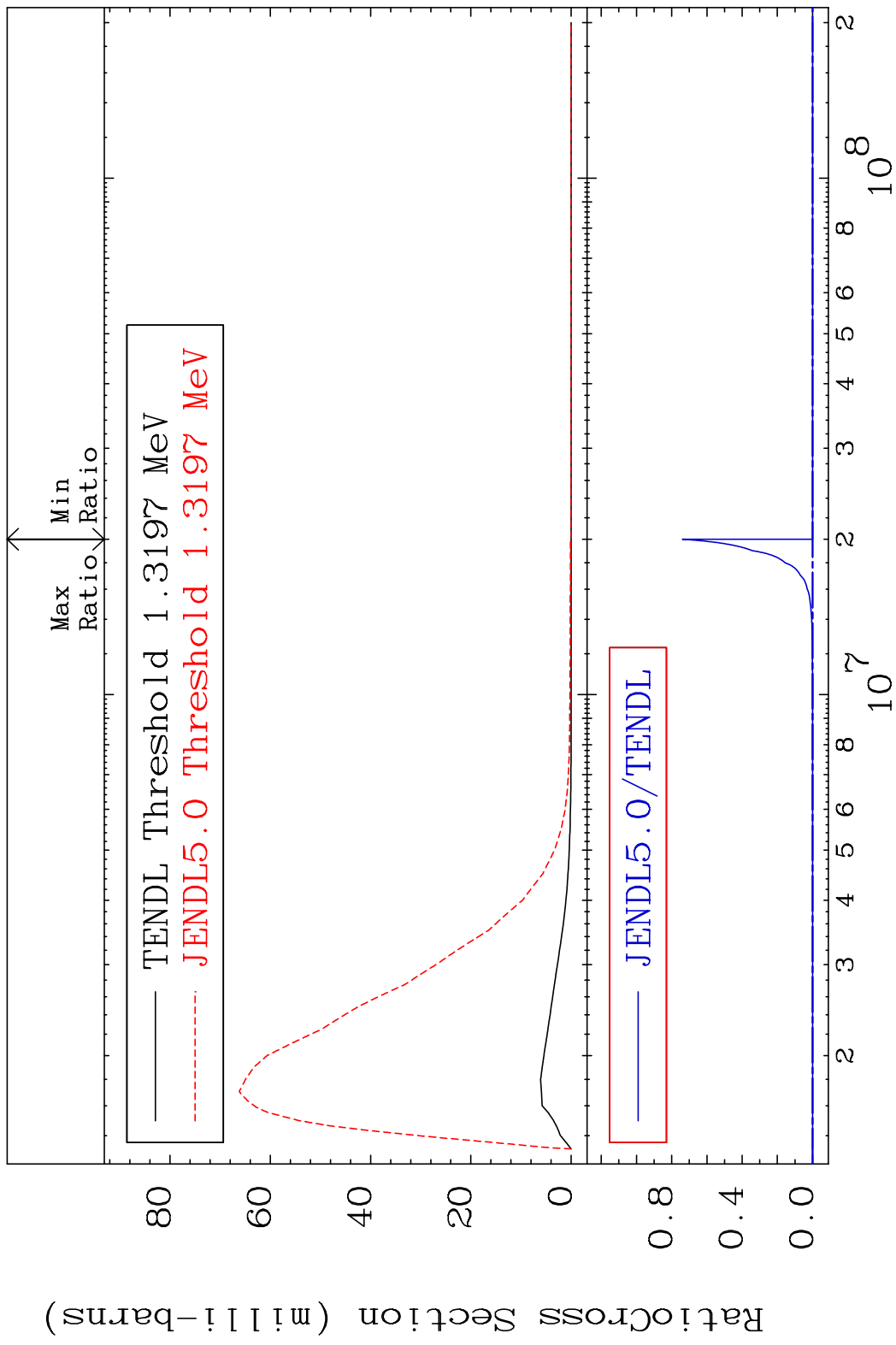
MAT 4520 MT= 68 (n, n') Level 45-Rh-101m
 Cross Section -100.0 To 9999. %



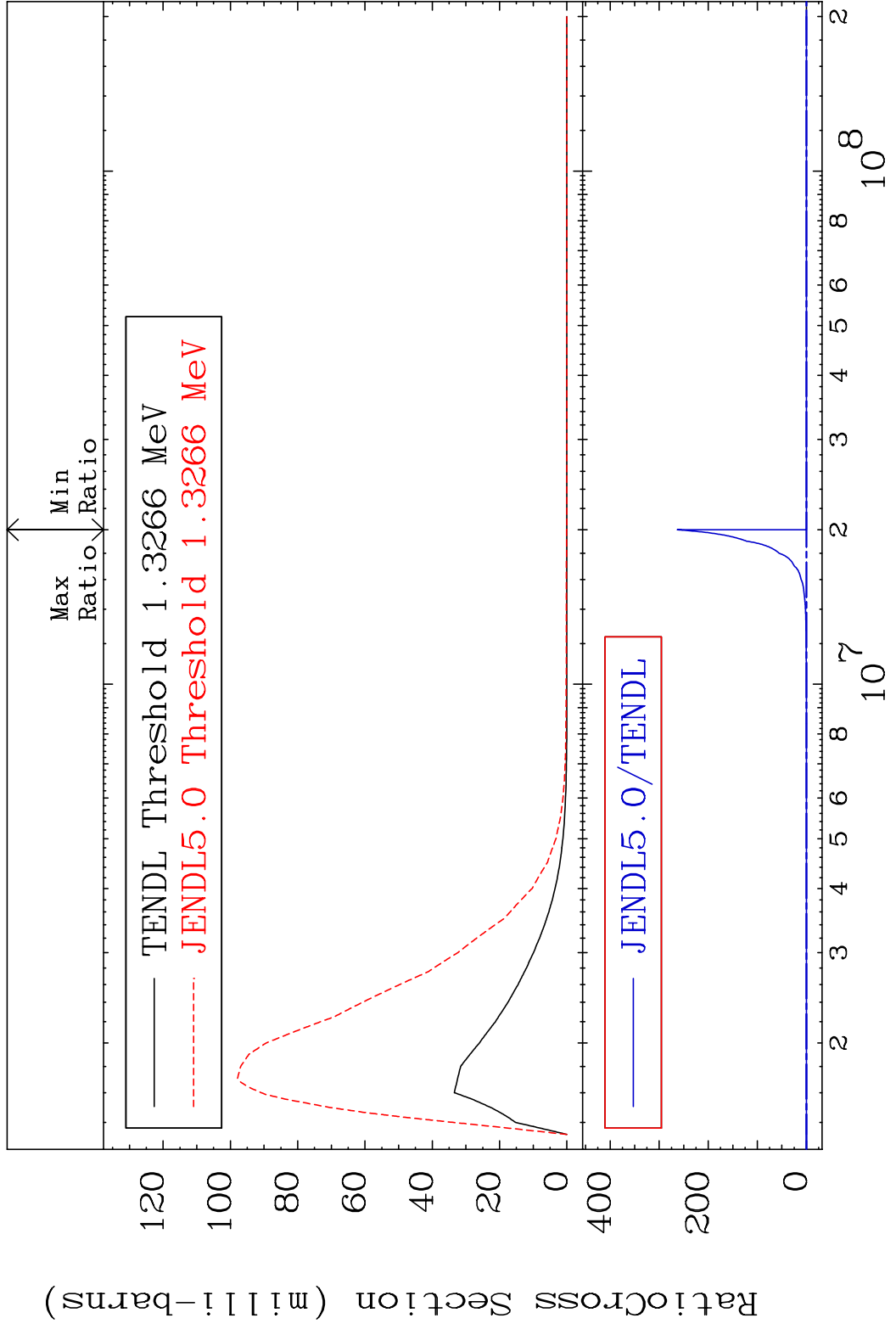
MAT 4520 MT= 69 (n, n') Level 45-Rh-101m
 Cross Section -100.0 To 9999. %



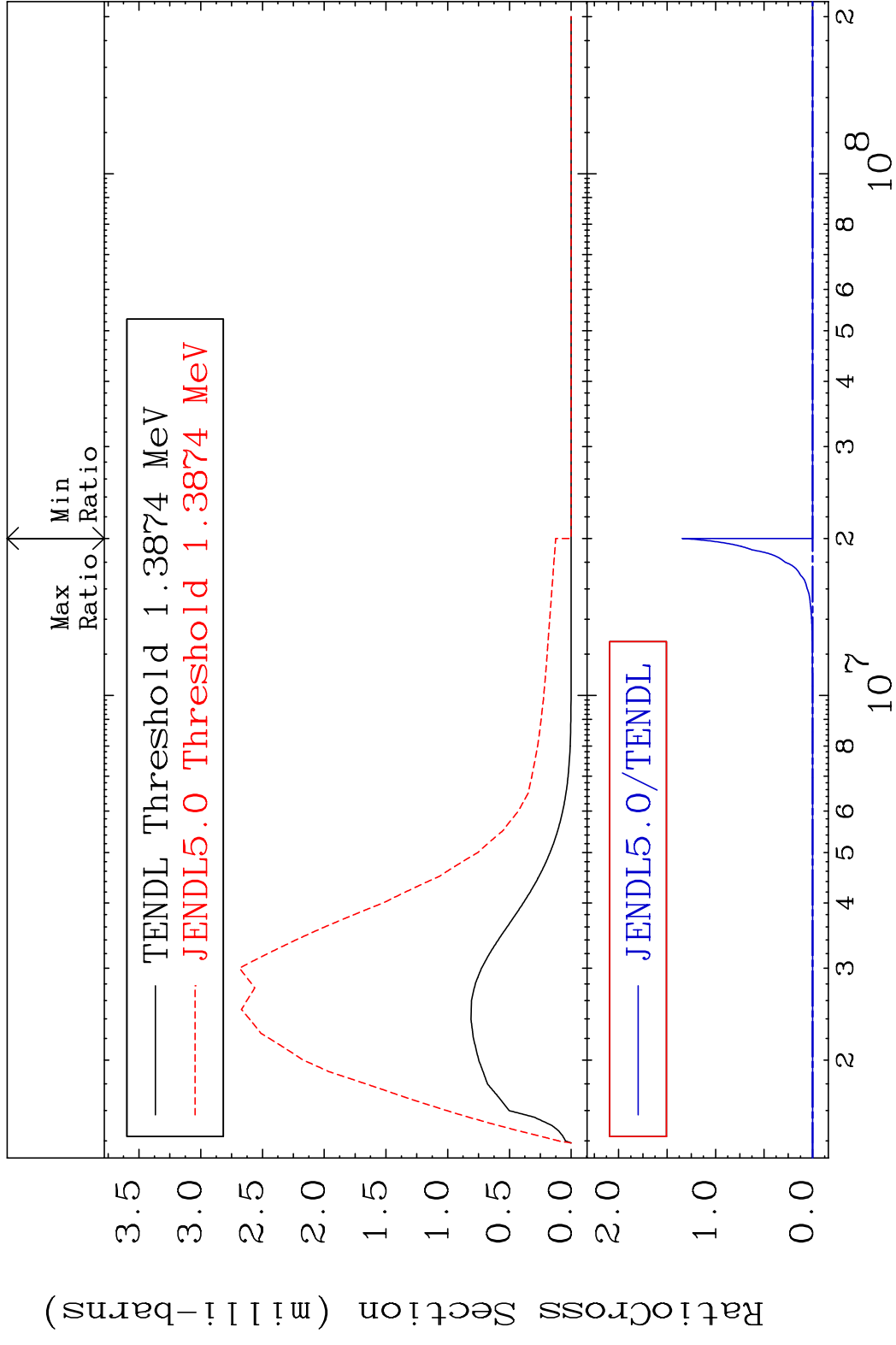
MAT 4520 MT= 70 (n, n') Level 45-Rh-101m
 Cross Section -100.0 To 9999. %



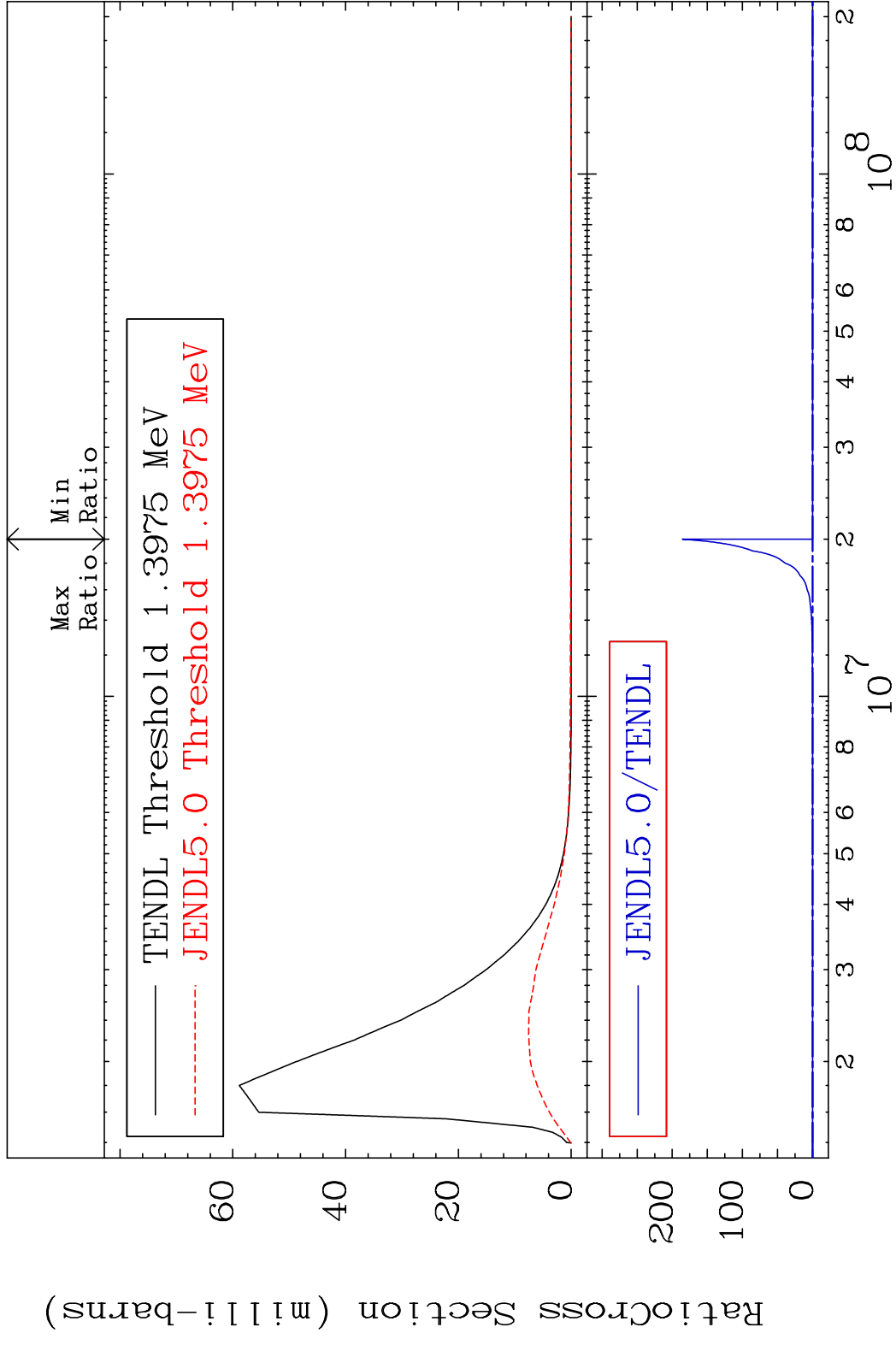
MAT 4520 MT= 71 (n, n') Level 45-Rh-101m
 Cross Section -100.0 To 9999. %



MAT 4520 MT= 72 (n, n') Level 45-Rh-101m
 Cross Section -100.0 To 9999. %

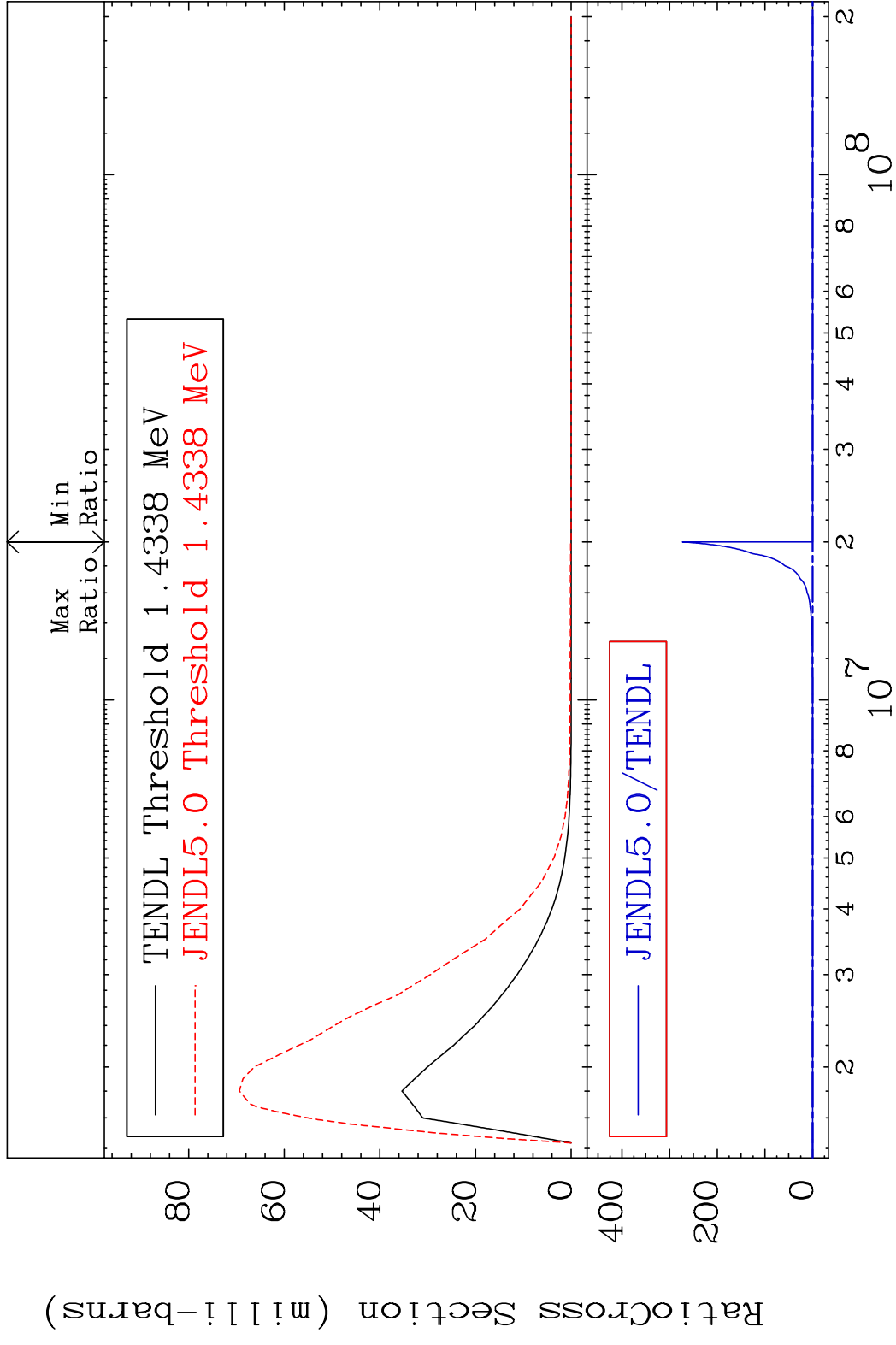


MAT 4520 MT= 73 (n, n') Level 45-Rh-101m
 Cross Section -100.0 To 9999. %

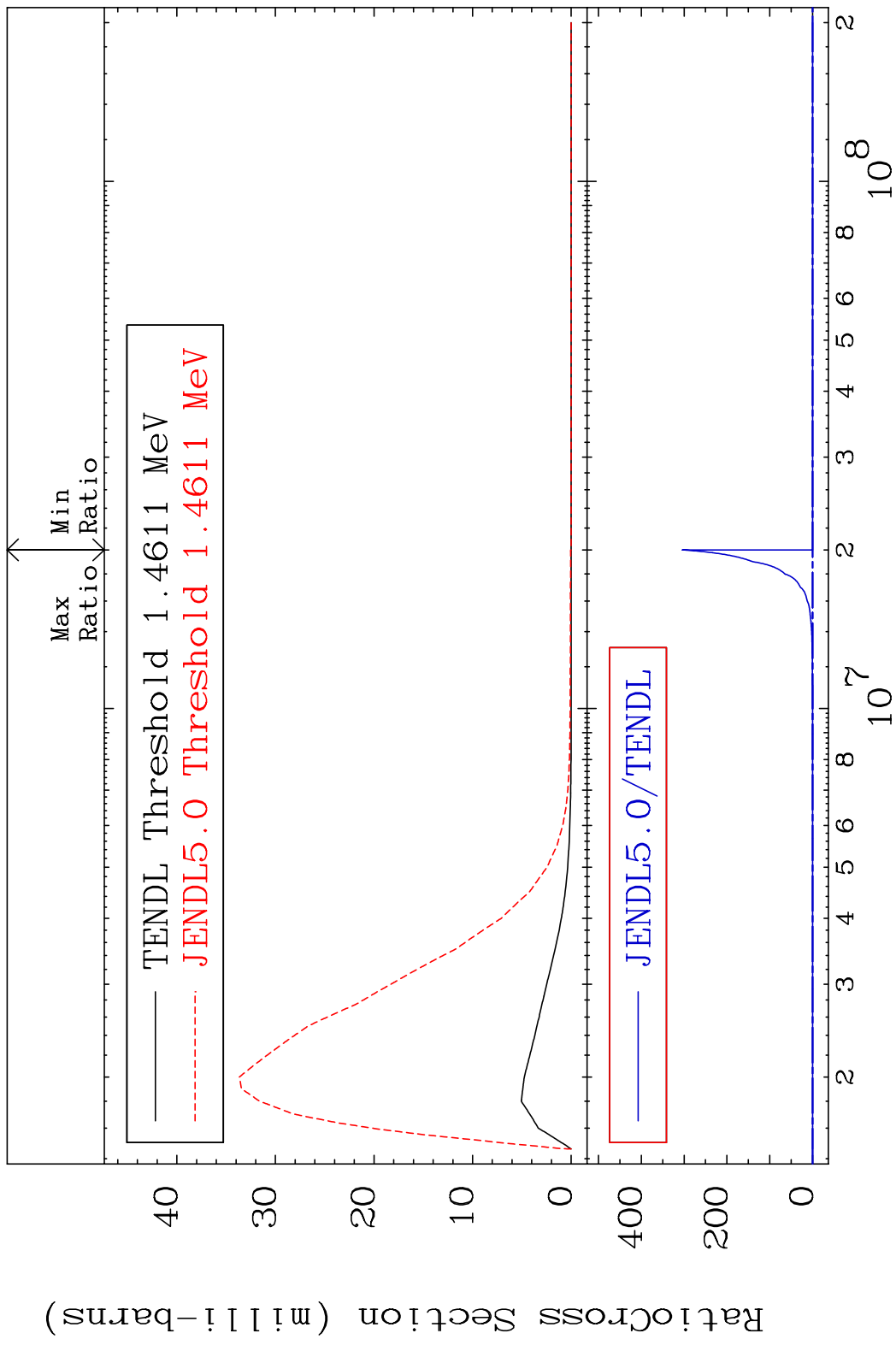


35 Incident Energy (eV) 45-Rh-101m

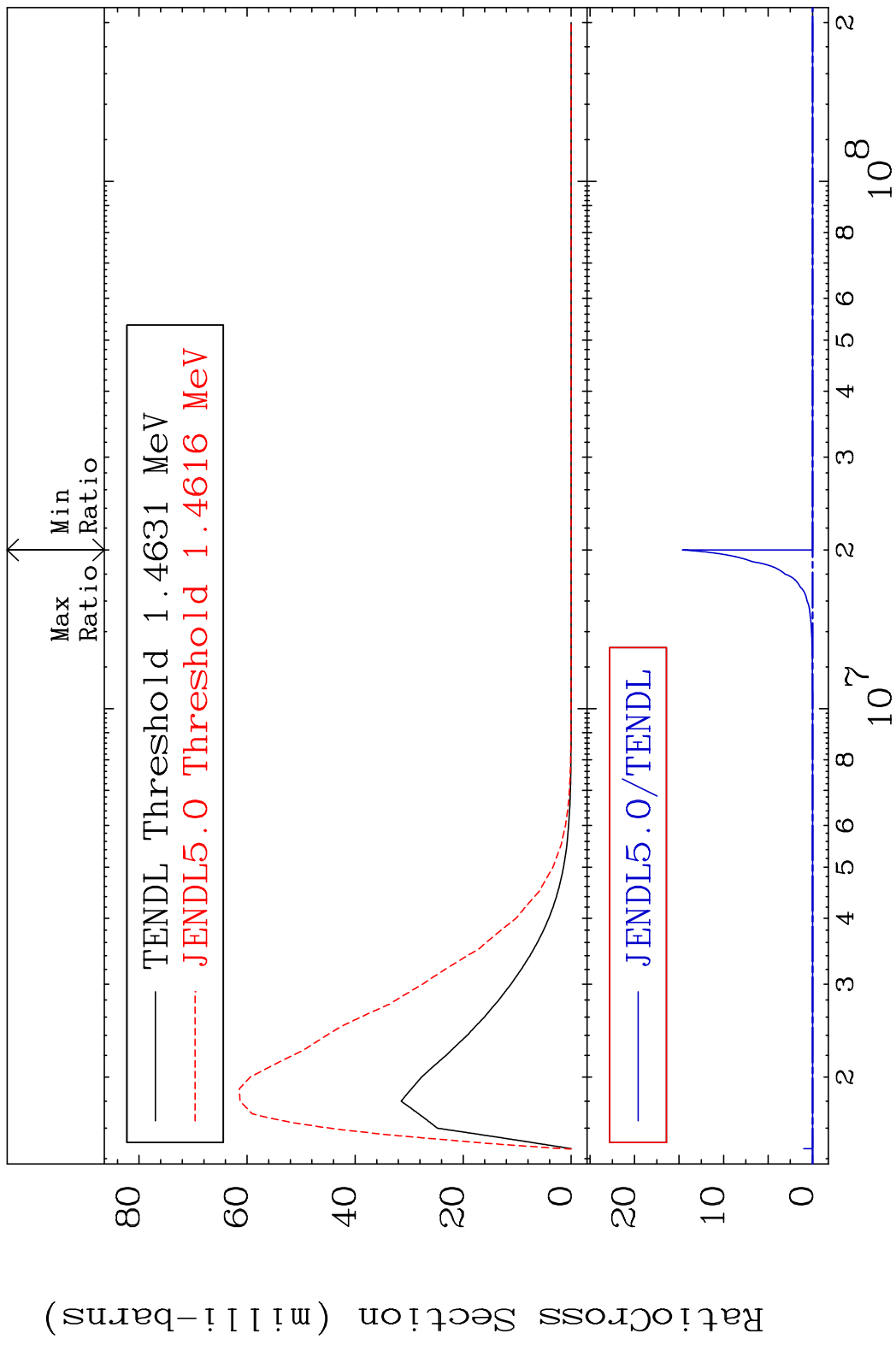
MAT 4520 MT= 74 (n, n') Level 45-Rh-101m
 Cross Section -100.0 To 9999. %



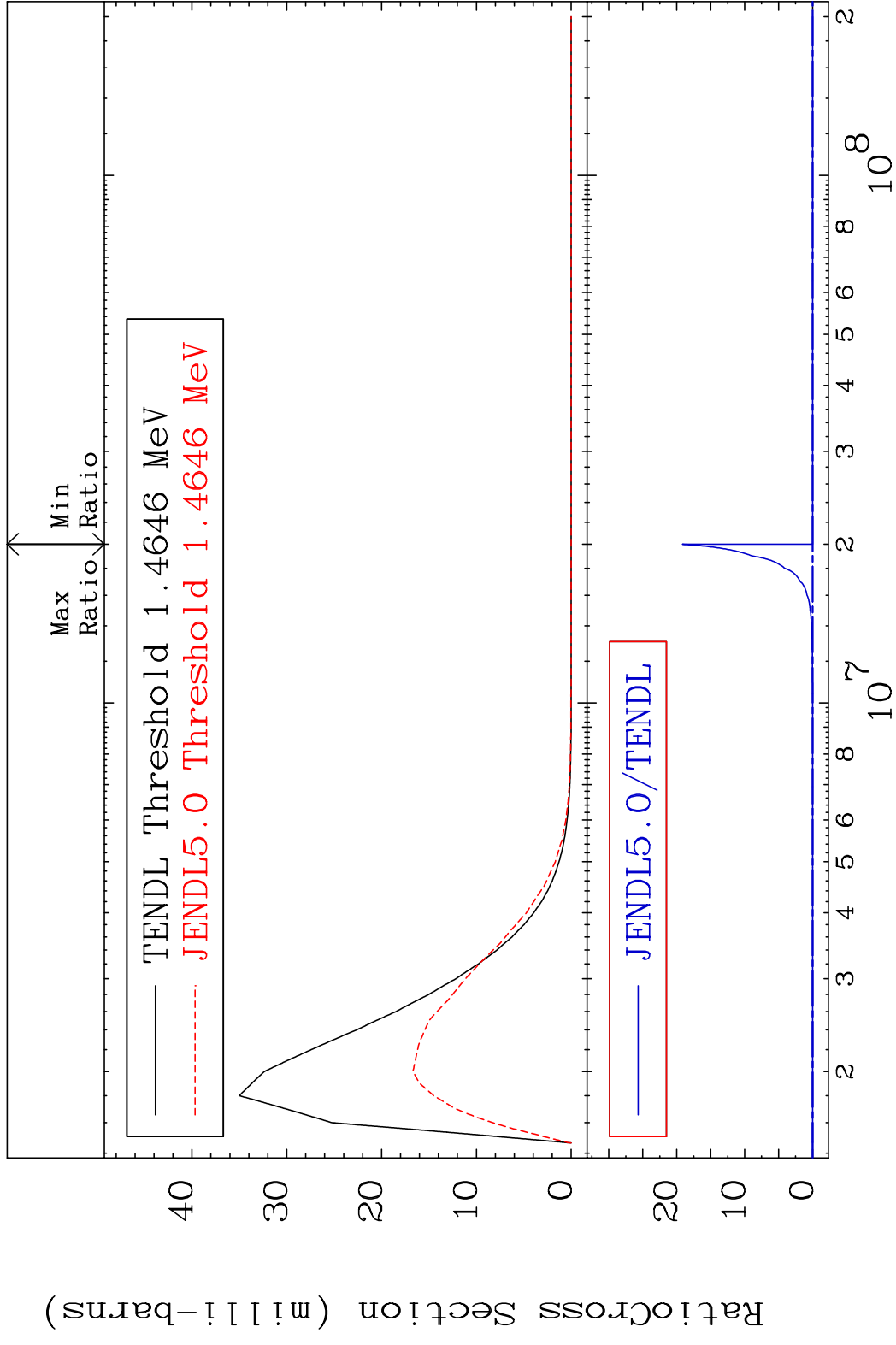
MAT 4520 MT= 75 (n, n') Level 45-Rh-101m
 Cross Section -100.0 To 9999. %



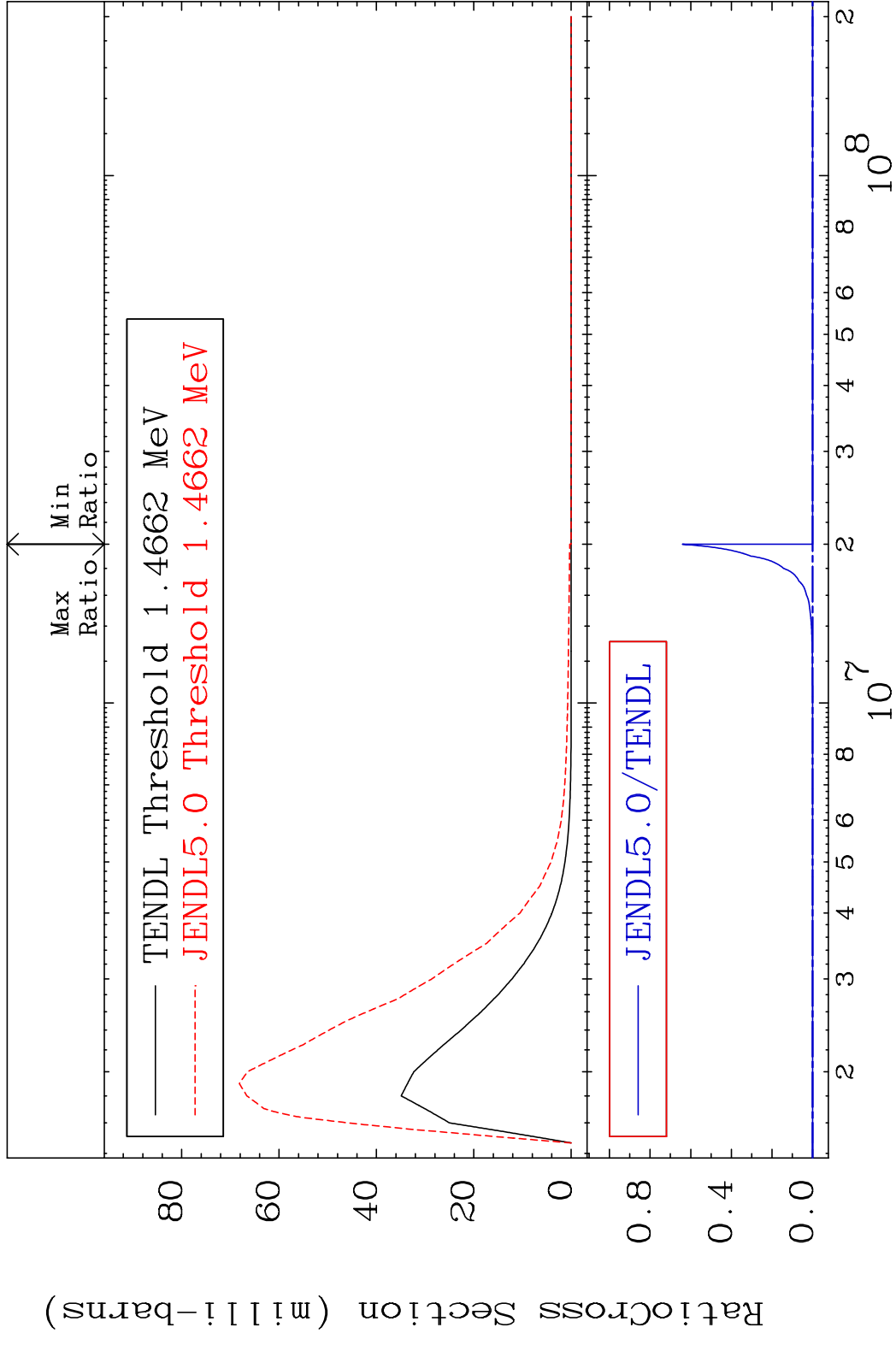
MAT 4520 MT= 76 (n, n') Level 45-Rh-101m
 Cross Section -100.0 To 9999. %



MAT 4520 MT= 77 (n, n') Level 45-Rh-101m
 Cross Section -100.0 To 9999. %

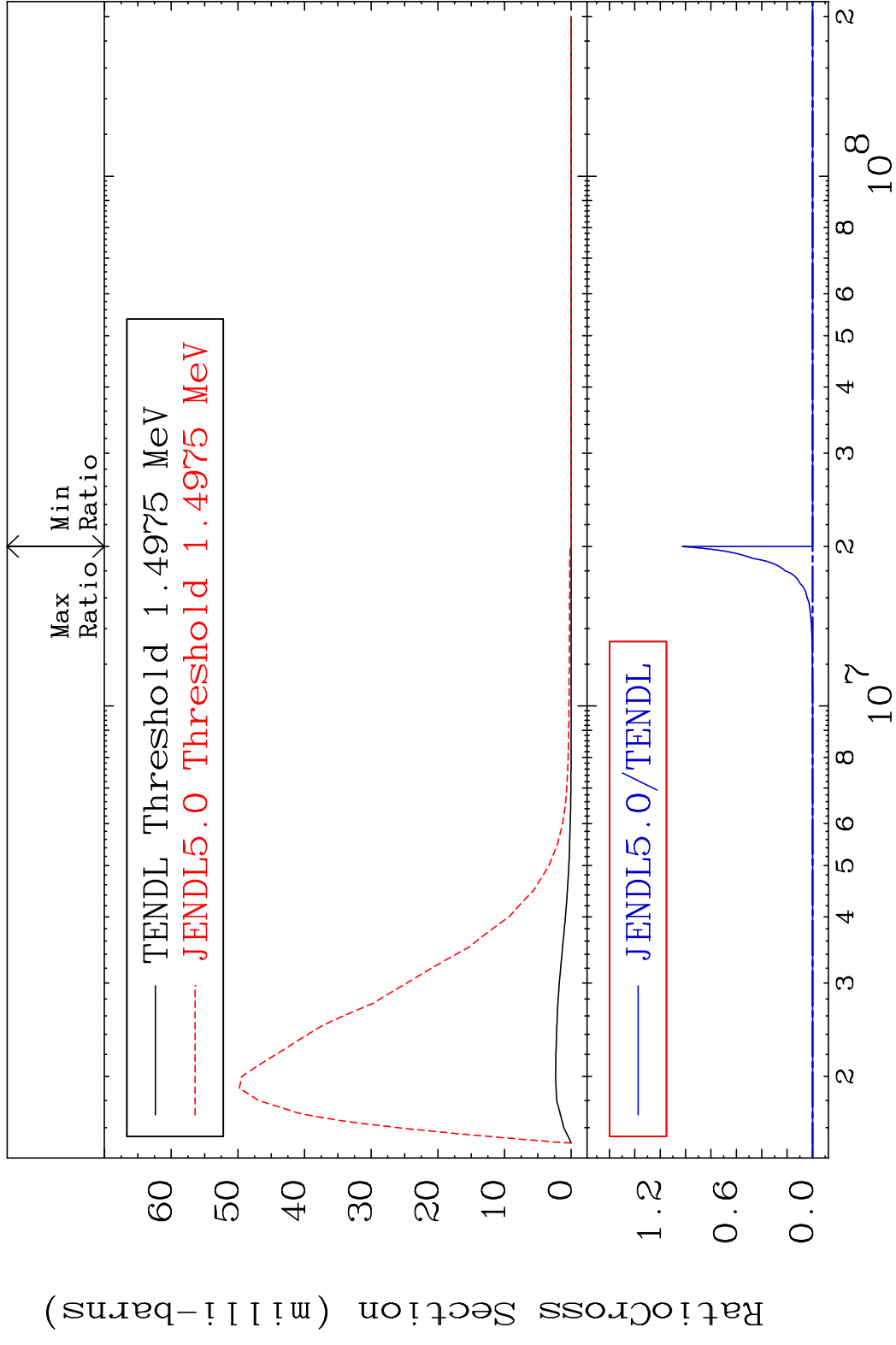


MAT 4520 MT= 78 (n, n') Level 45-Rh-101m
 Cross Section -100.0 To 9999. %

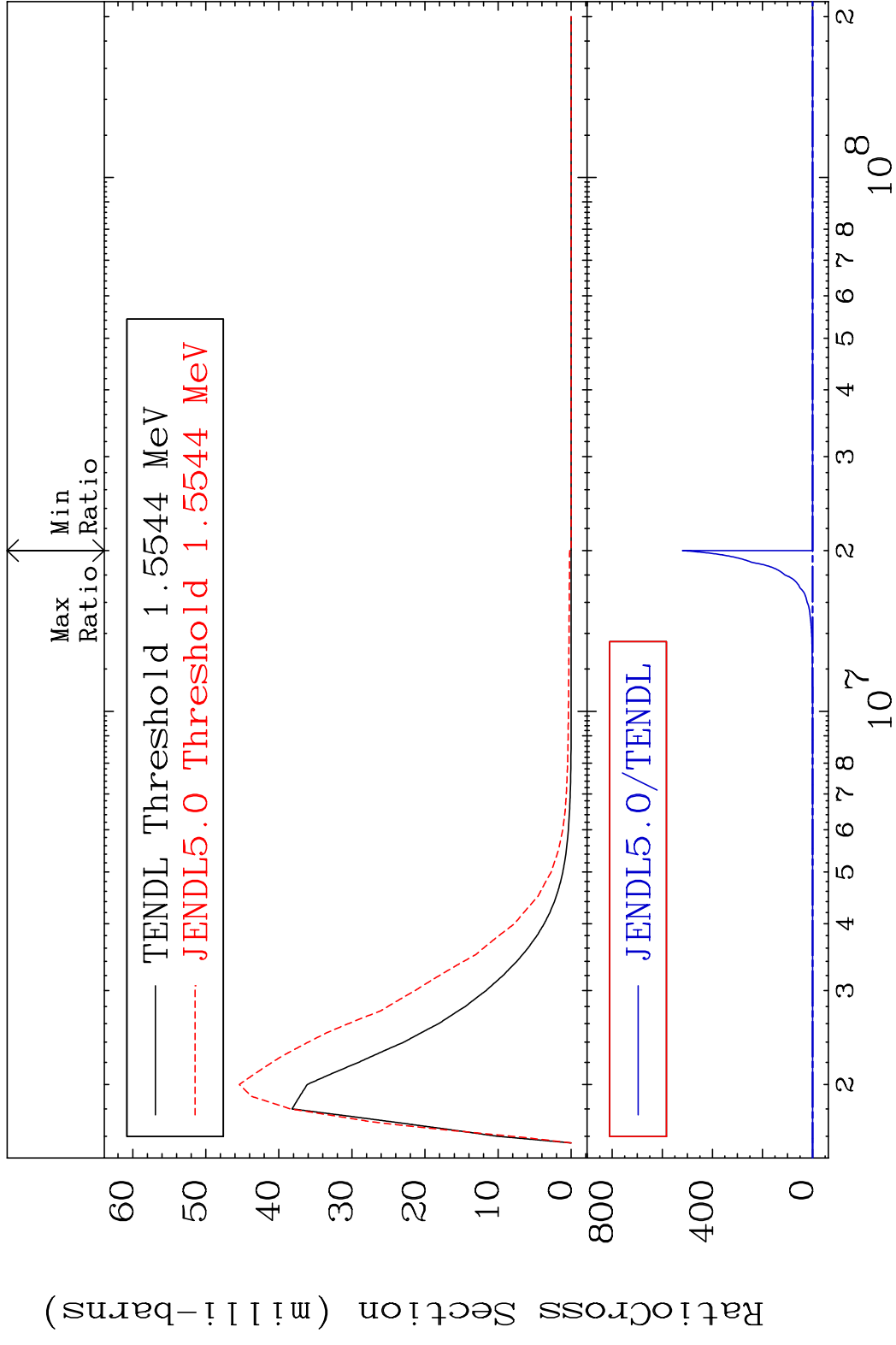


40 Incident Energy (eV) 45-Rh-101m

MAT 4520 MT= 79 (n, n') Level 45-Rh-101m
 Cross Section -100.0 To 9999. %



MAT 4520 MT= 80 (n, n') Level 45-Rh-101m
 Cross Section -100.0 To 9999. %



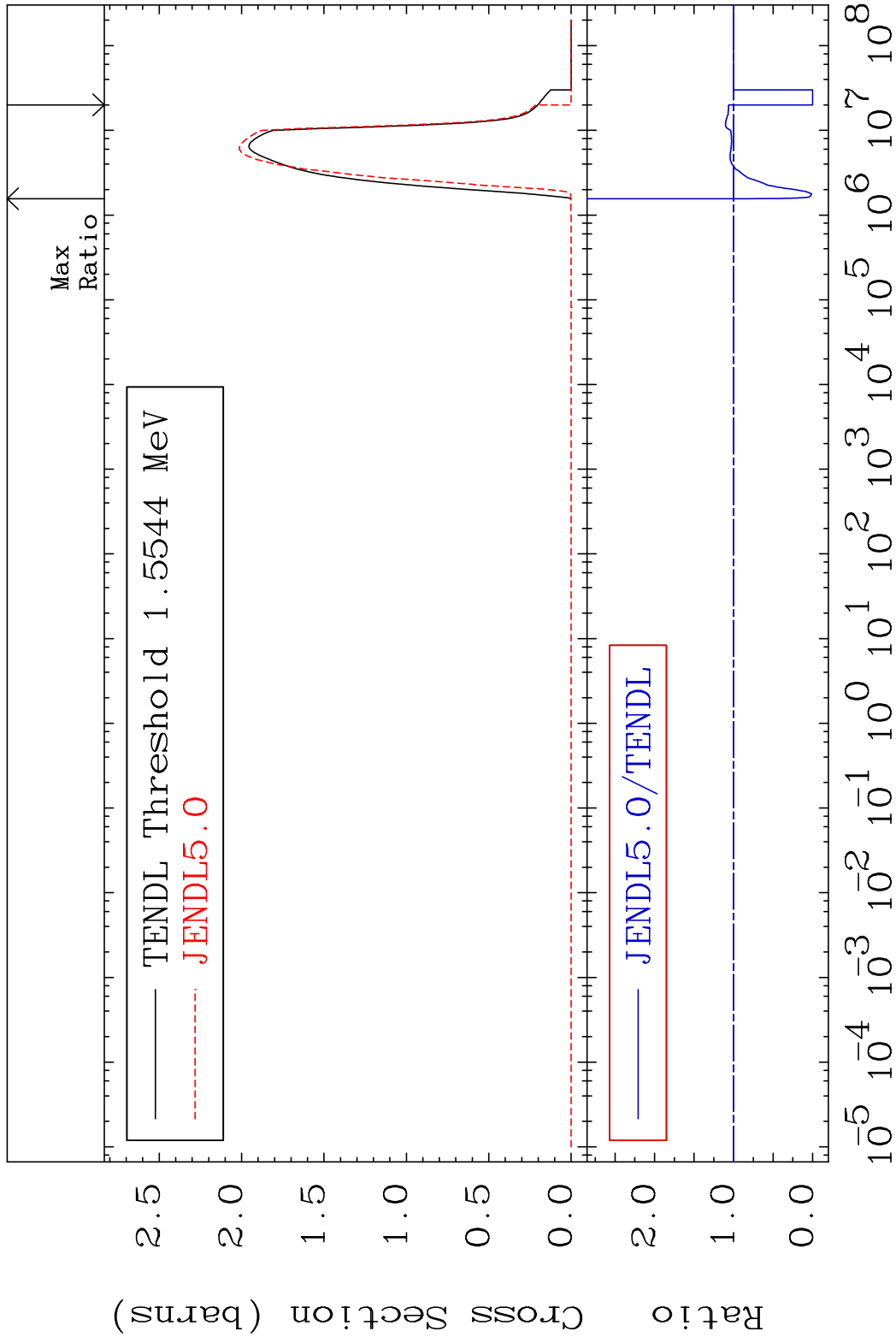
42 Incident Energy (eV) 45-Rh-101m

MAT 4520

(n, n') Continuum

45-Rh-101m

Cross Section -100.0 To 64.82 %



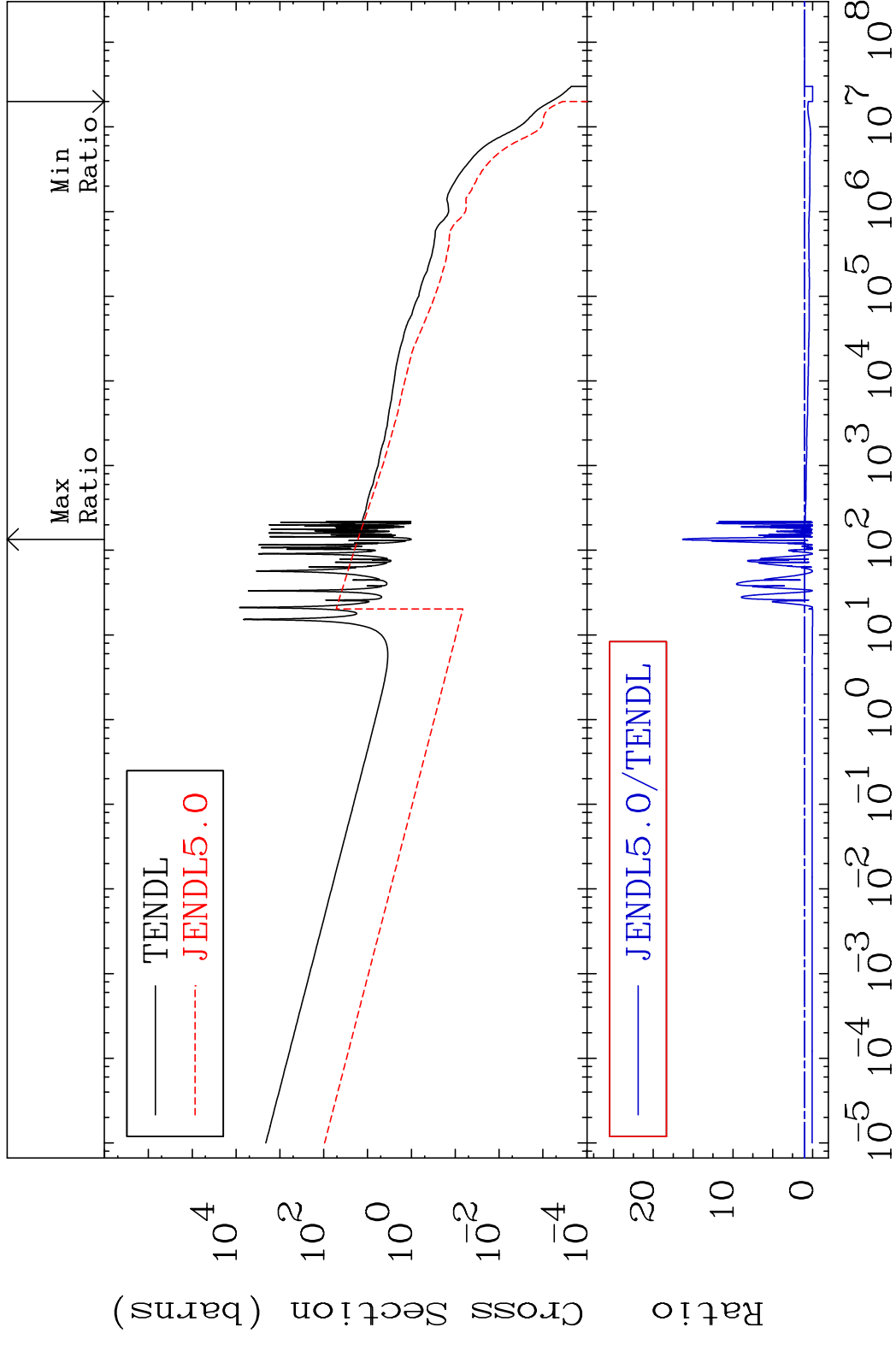
43

Incident Energy (eV)

45-Rh-101m

MAT 4520

(n, γ)
Cross Section -100.0 To 1535. %
45-Rh-101m

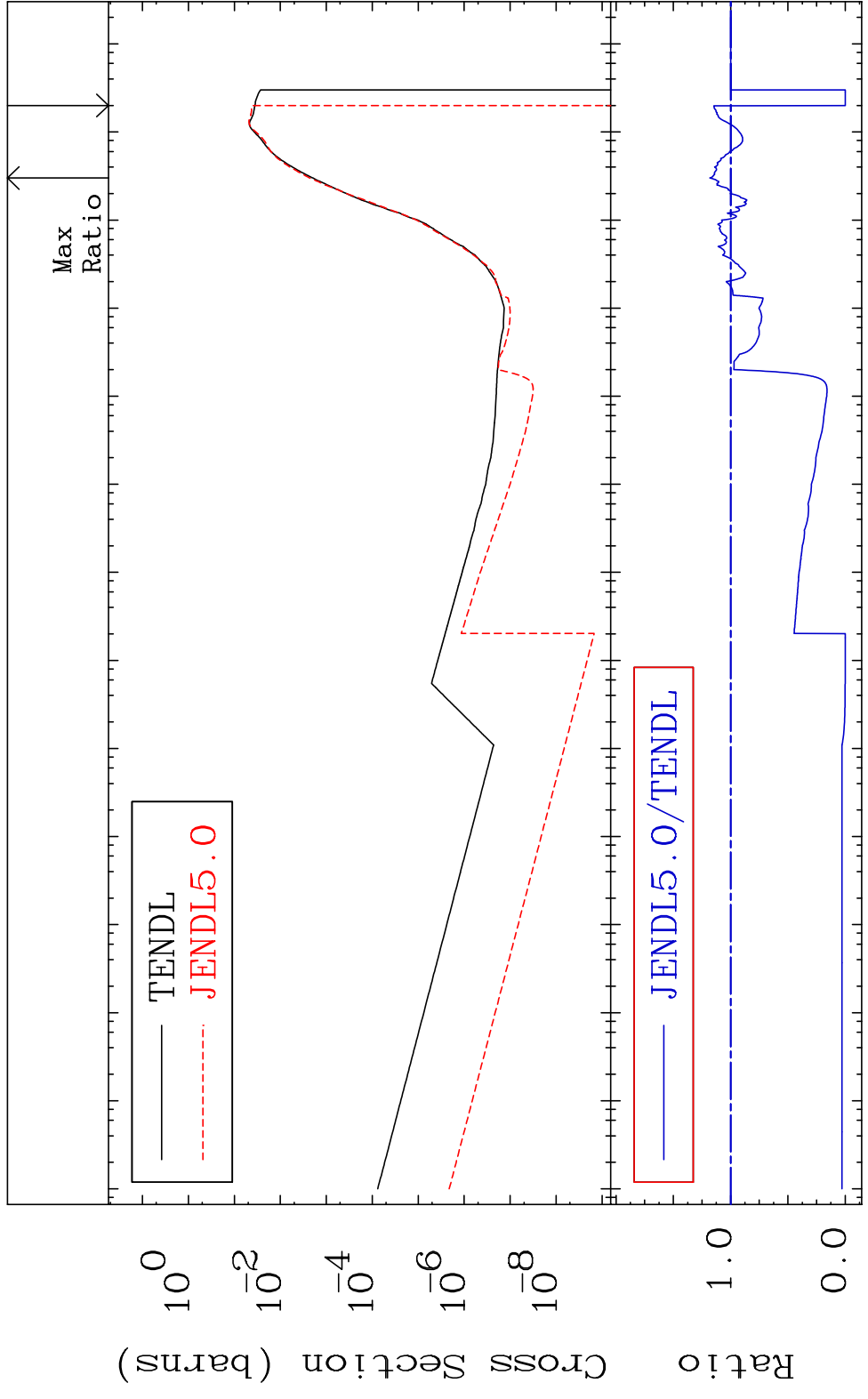


44

Incident Energy (eV)

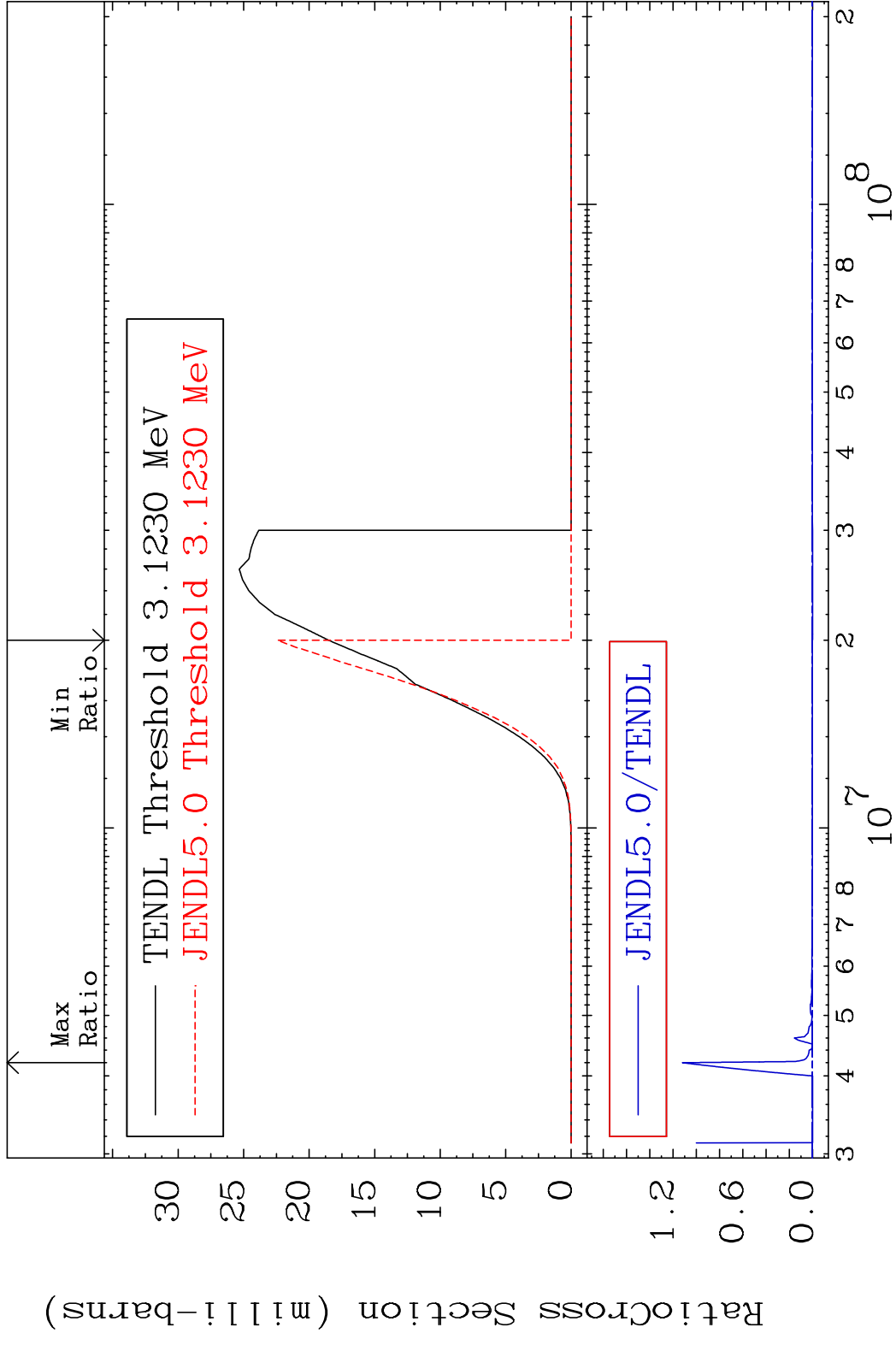
45-Rh-101m

MAT 4520 (n,p) 45-Rh-101m
 Cross Section -100.0 To 18.18 %

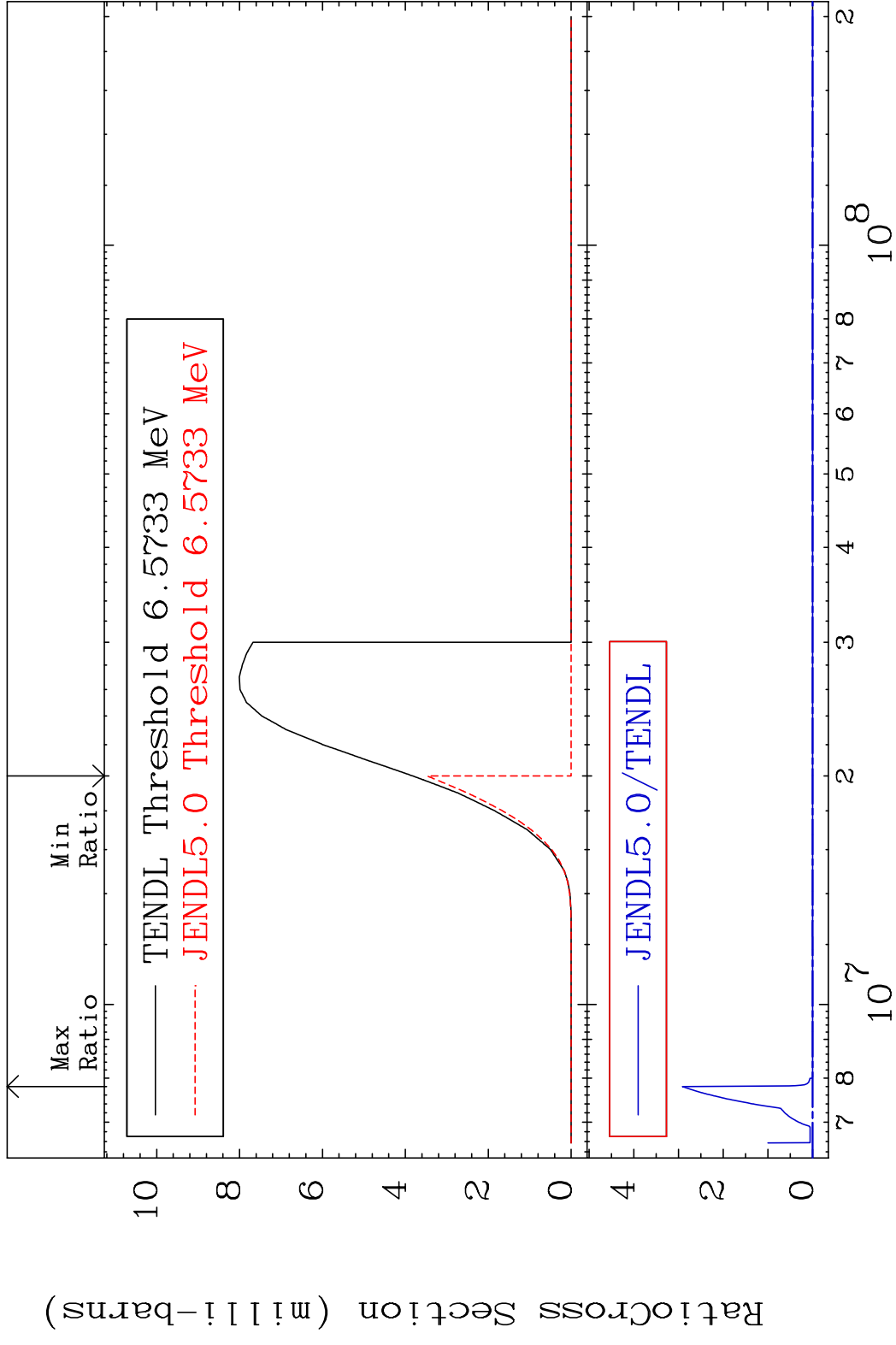


45 Incident Energy (eV) 45-Rh-101m

MAT 4520 (n,d) 45-Rh-101m
 Cross Section -100.0 To 9999. %

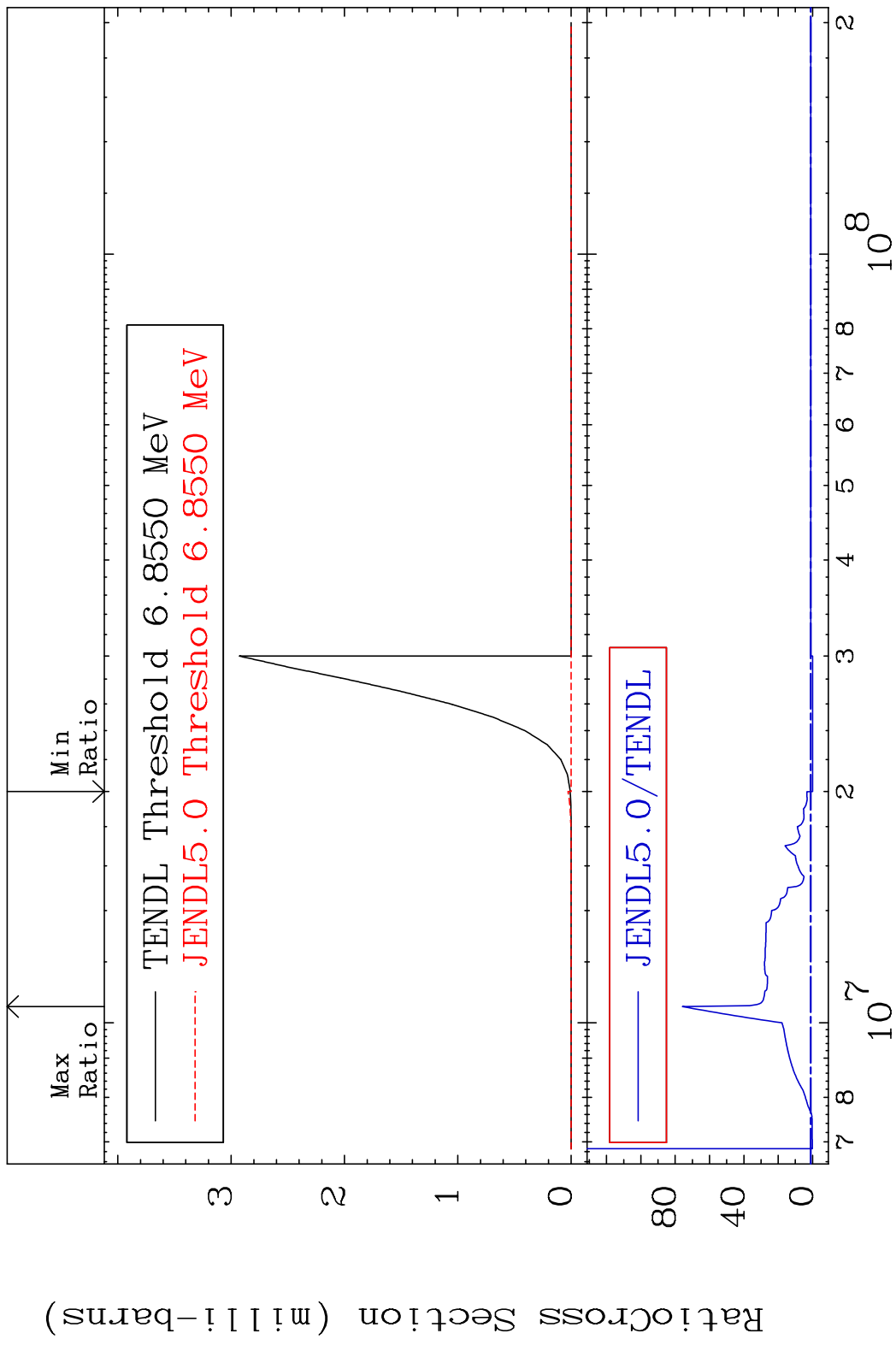


MAT 4520 (n, t) 45-Rh-101m
 Cross Section -100.0 To 9999. %



47 45-Rh-101m

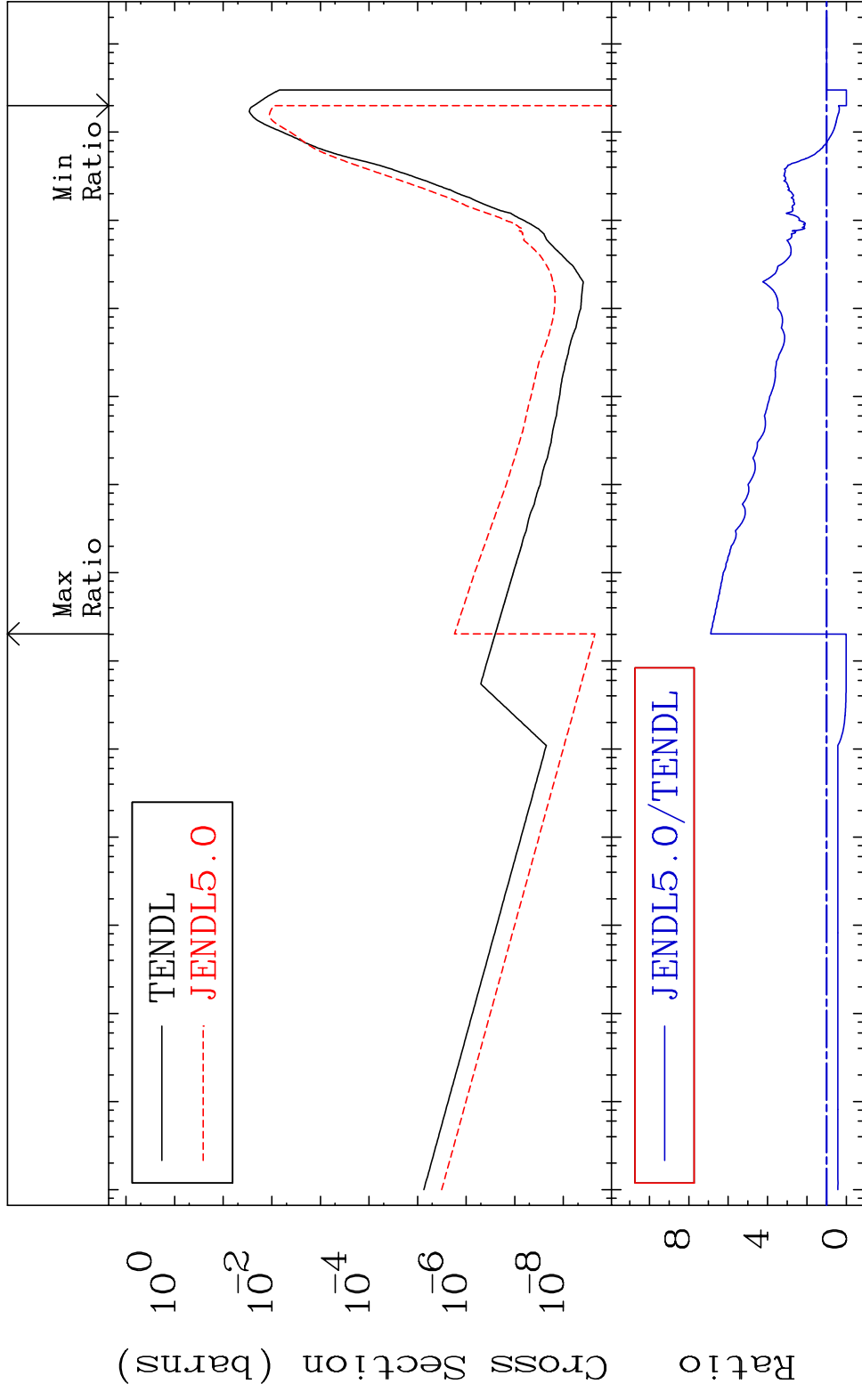
MAT 4520 (n, He-3) 45-Rh-101m
 Cross Section -100.0 To 7484. %



48 Incident Energy (eV) 45-Rh-101m

MAT 4520

(n, α)
Cross Section -100.0 To 588.7 %
45-Rh-101m



49

Incident Energy (eV)

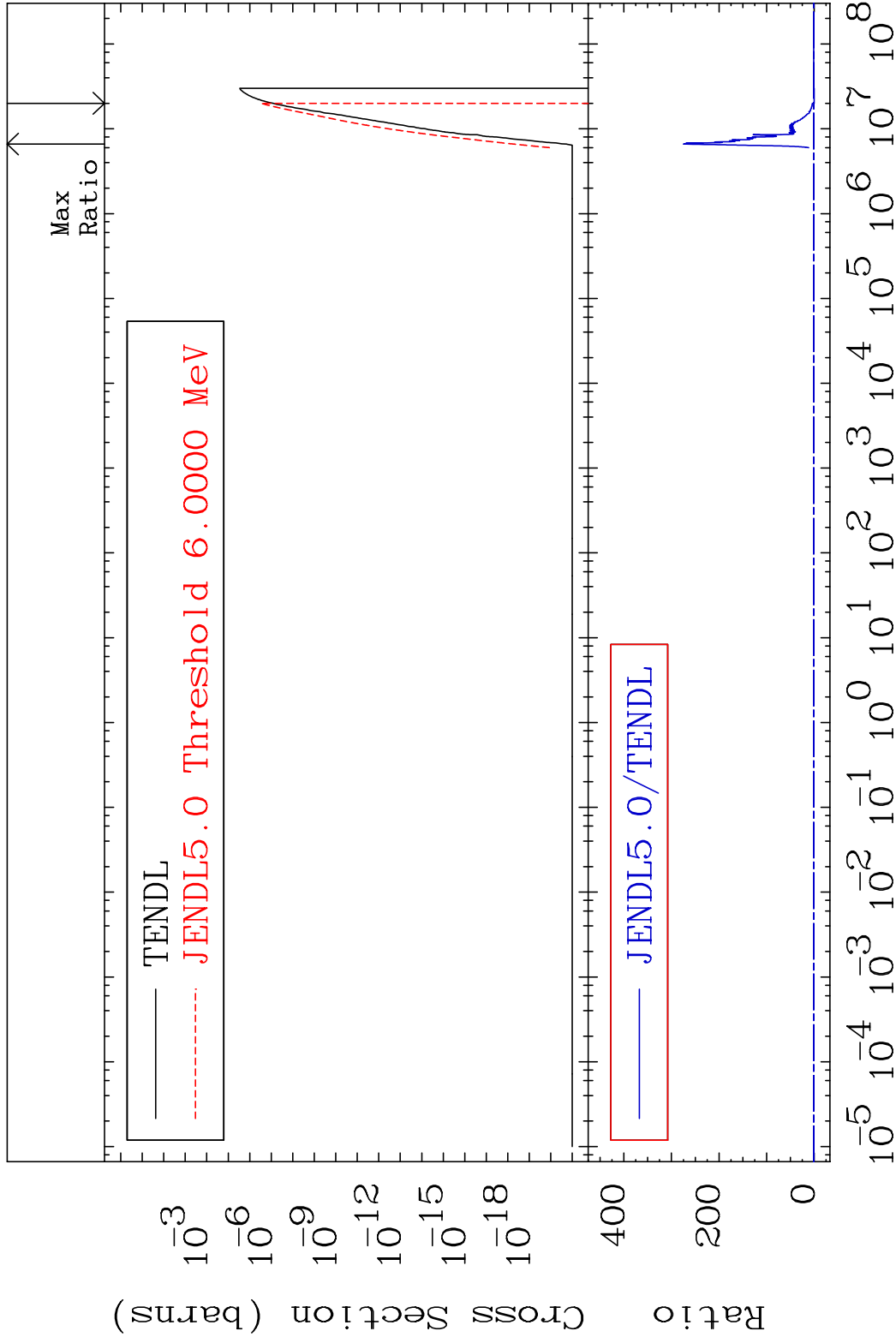
45-Rh-101m

MAT 4520

(n,2α)

45-Rh-101m

Cross Section -100.0 To 9999. %

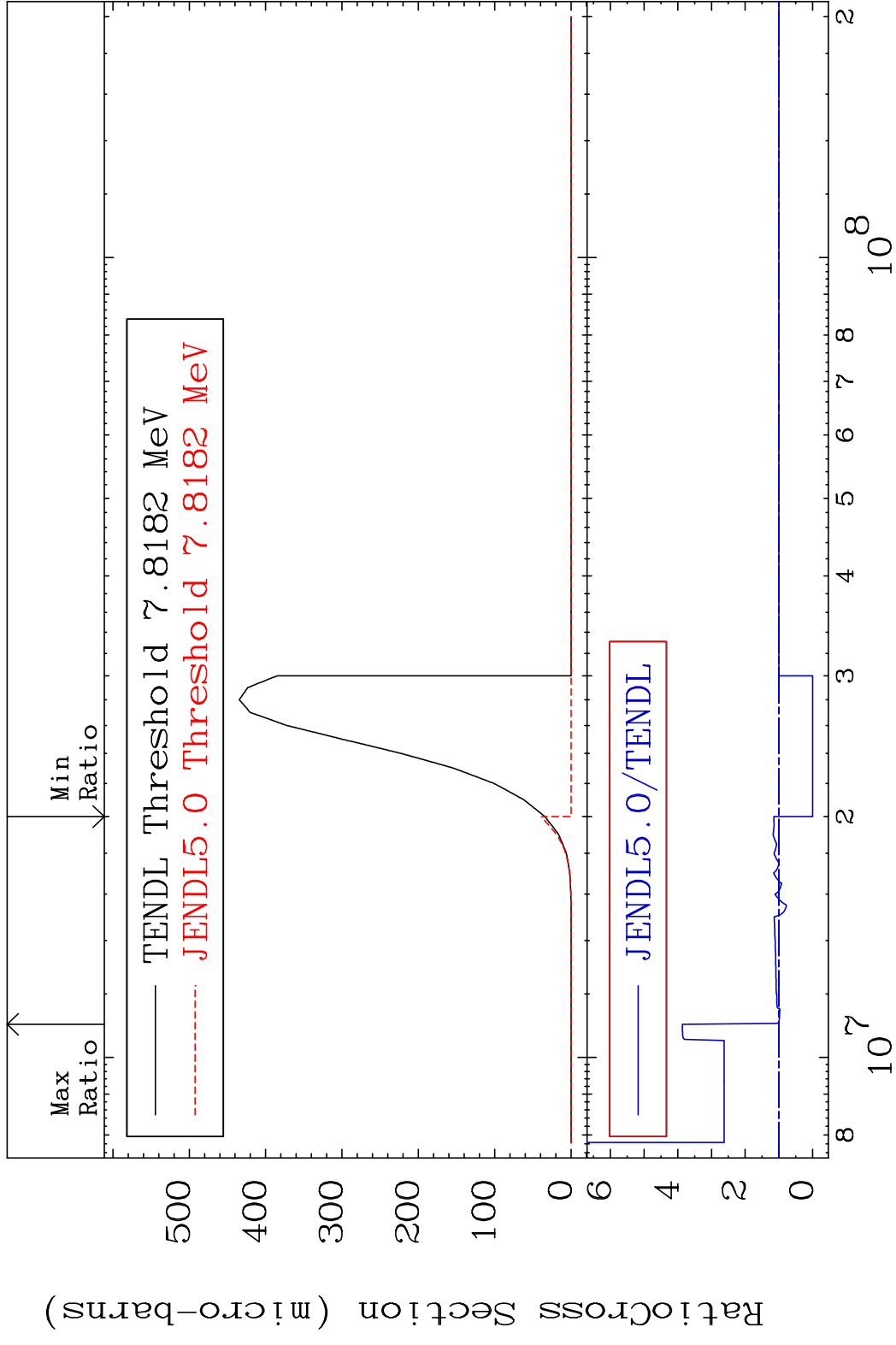


50

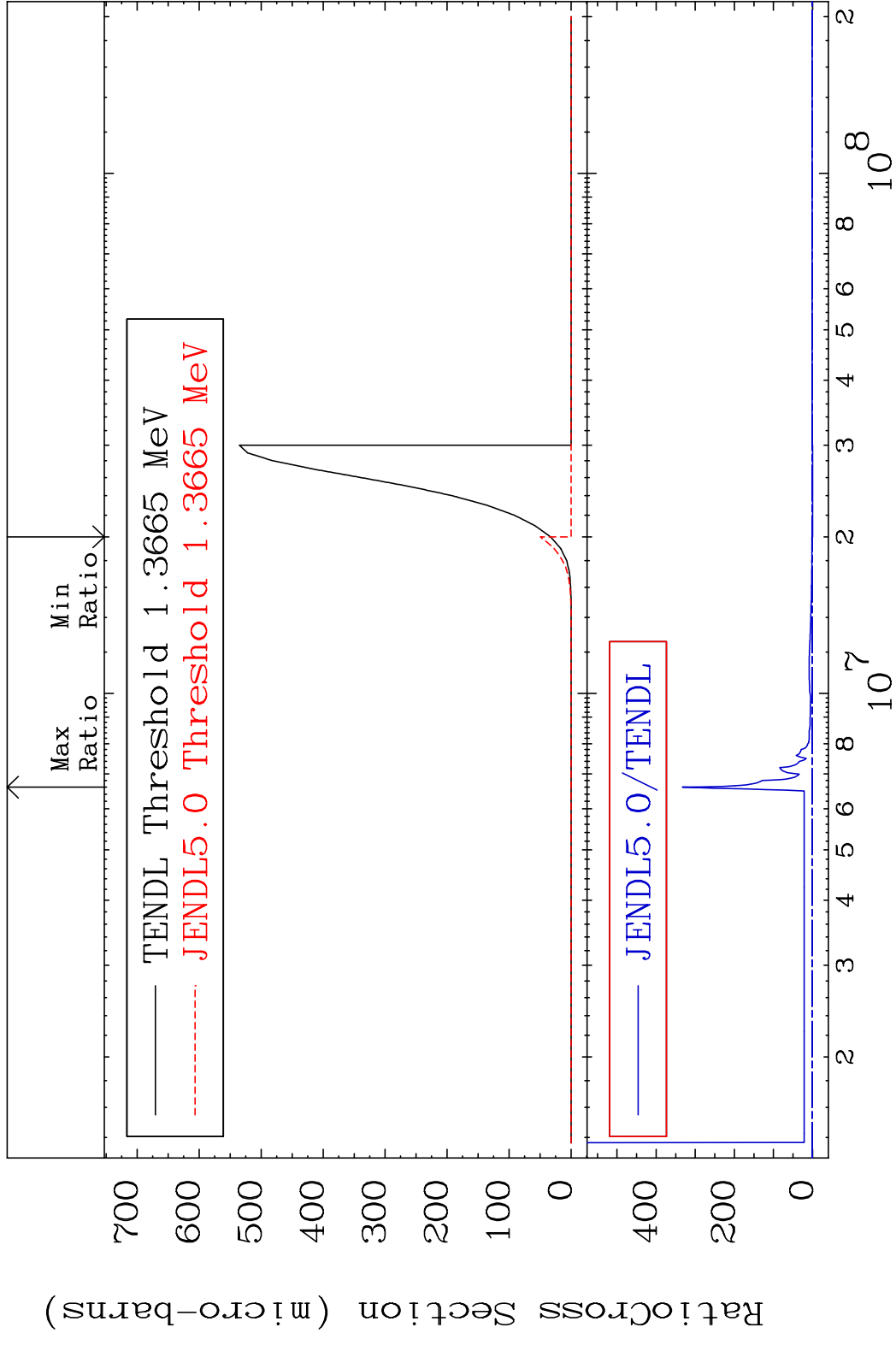
Incident Energy (eV)

45-Rh-101m

MAT 4520 (n,2p) 45-Rh-101m
 Cross Section -100.0 To 286.4 %

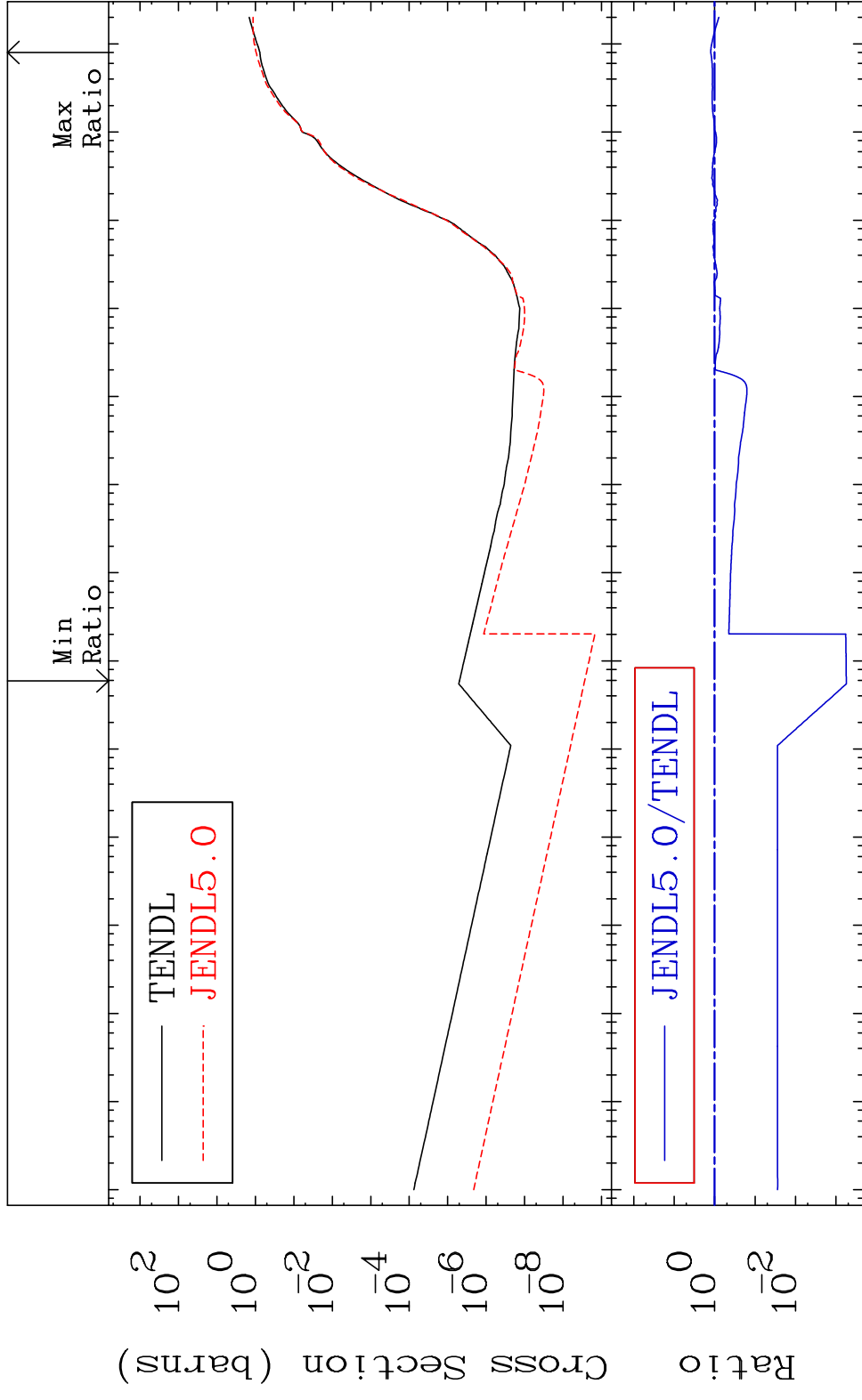


MAT 4520 (n,p) α 45-Rh-101m
 Cross Section -100.0 To 9999. %



52 Incident Energy (eV) 45-Rh-101m

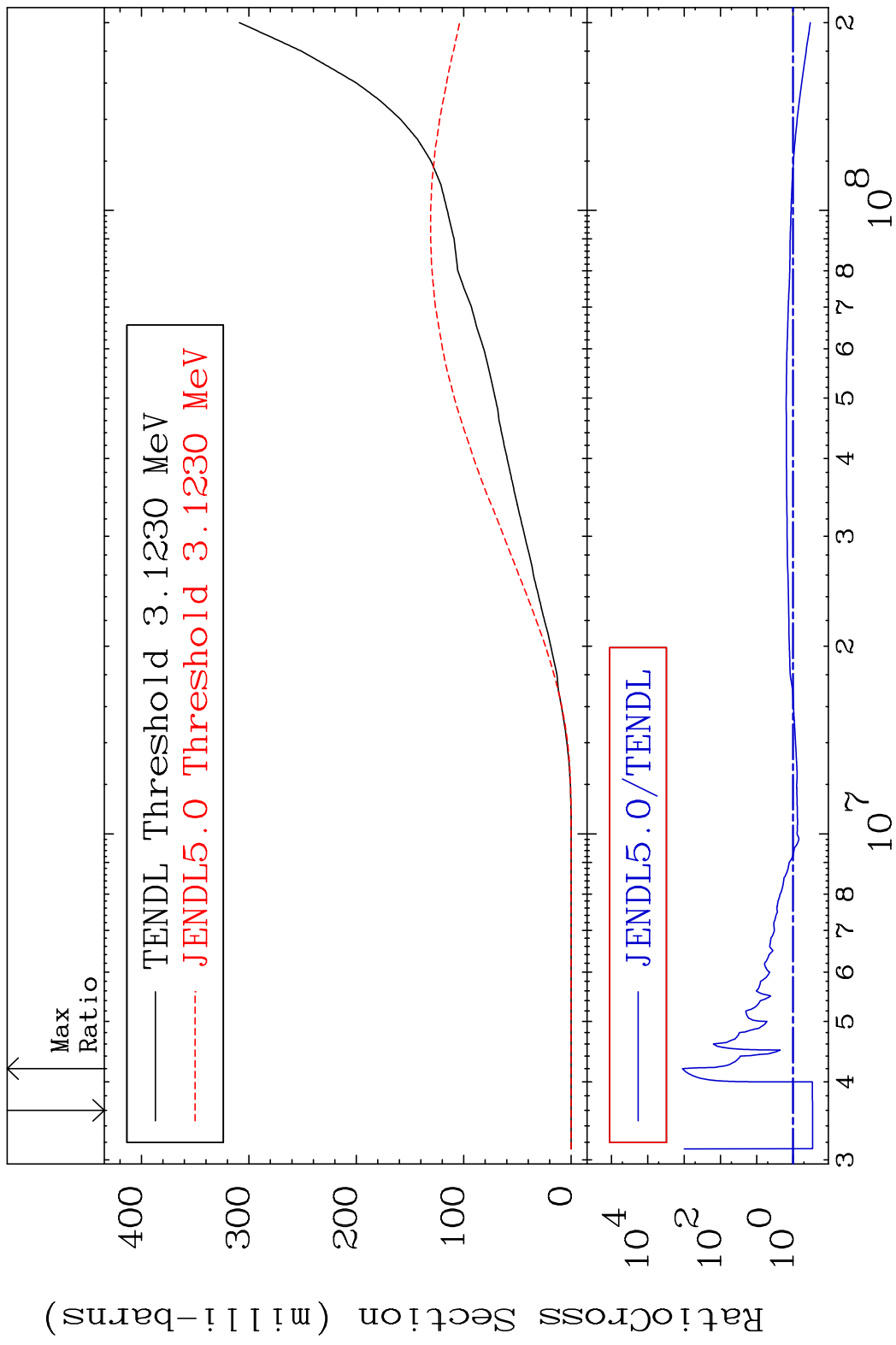
MAT 4520 Hydrogen Production 45-Rh-101m
 Cross Section -99.94 To 25.10 %



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

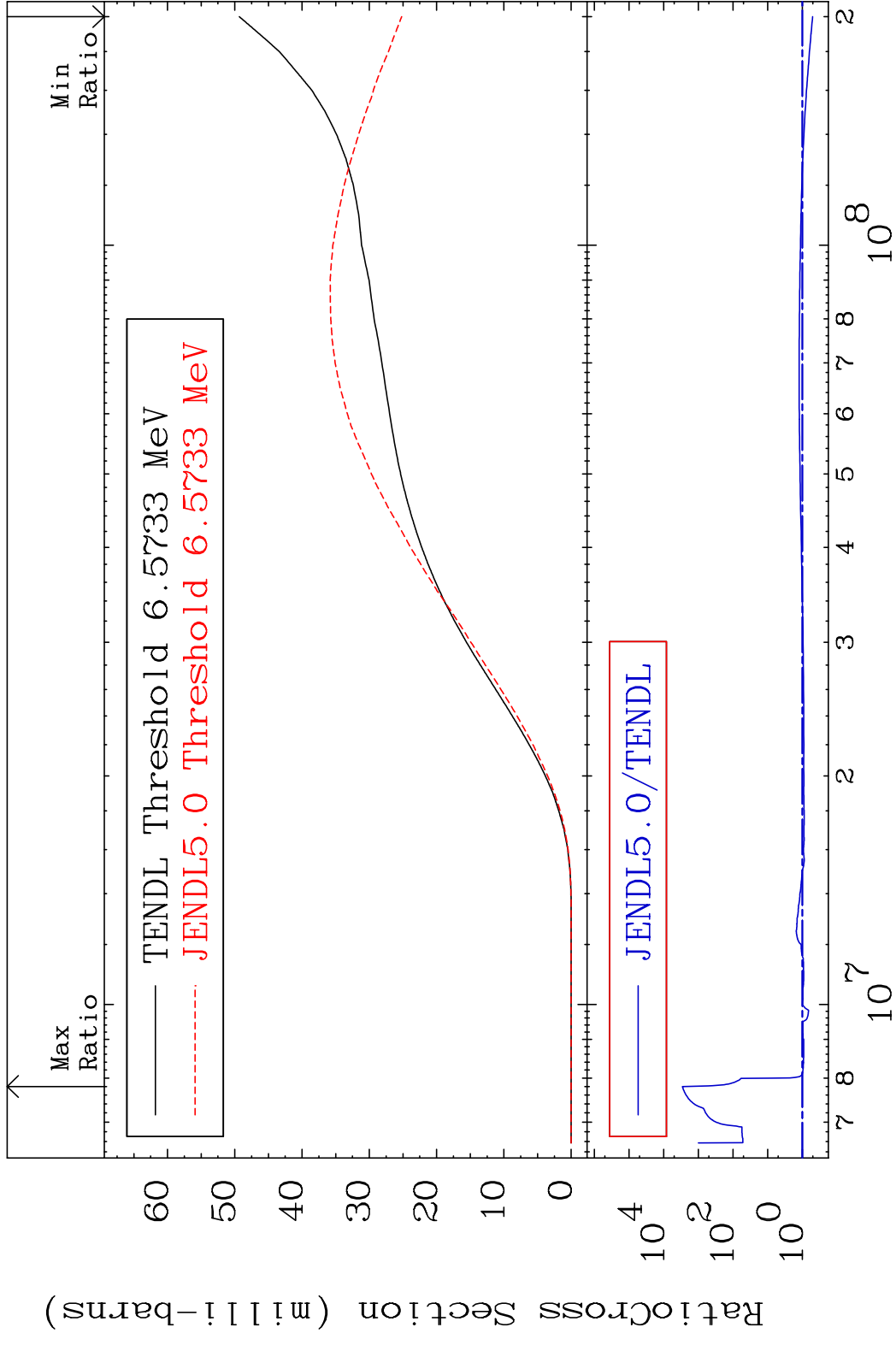
53 Incident Energy (eV) 45-Rh-101m

MAT 4520 Deuterium Production 45-Rh-101m
 Cross Section -70.98 To 9999. %

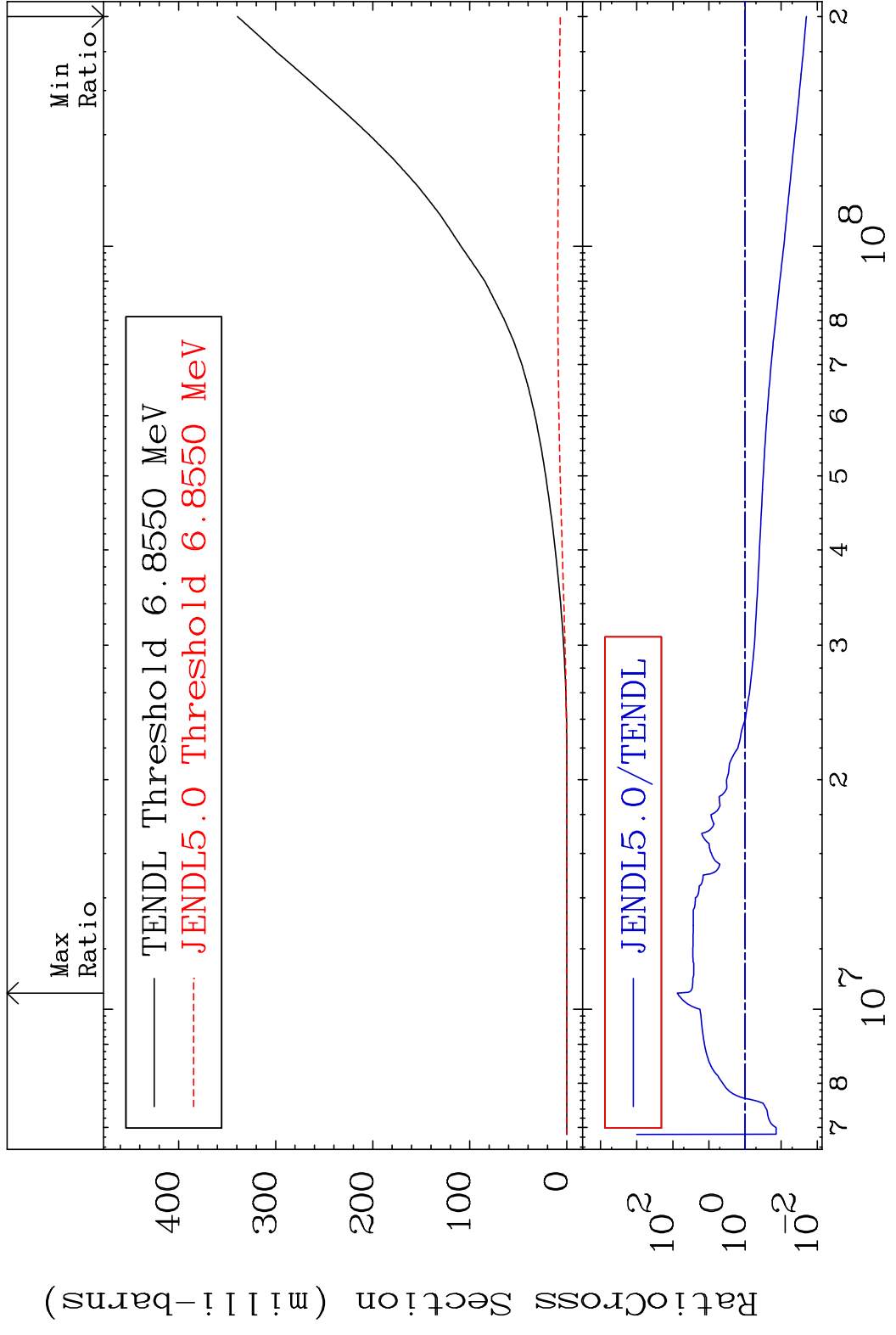


54 Incident Energy (eV) 45-Rh-101m

MAT 4520 Tritium Production 45-Rh-101m
 Cross Section -48.91 To 9999. %

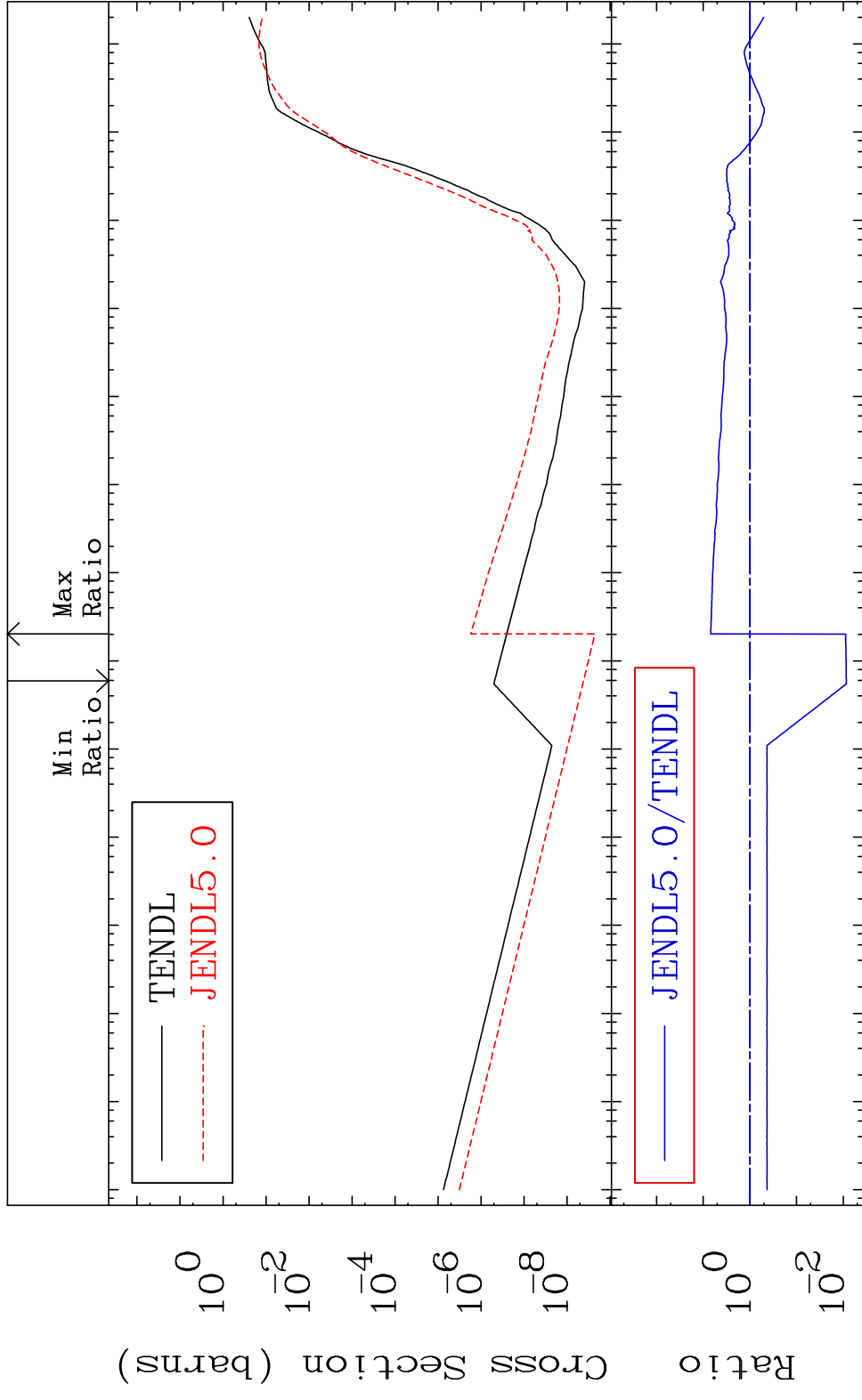


MAT 4520 He-3 Production 45-Rh-101m
 Cross Section -97.99 To 7484. %



56 Incident Energy (eV) 45-Rh-101m

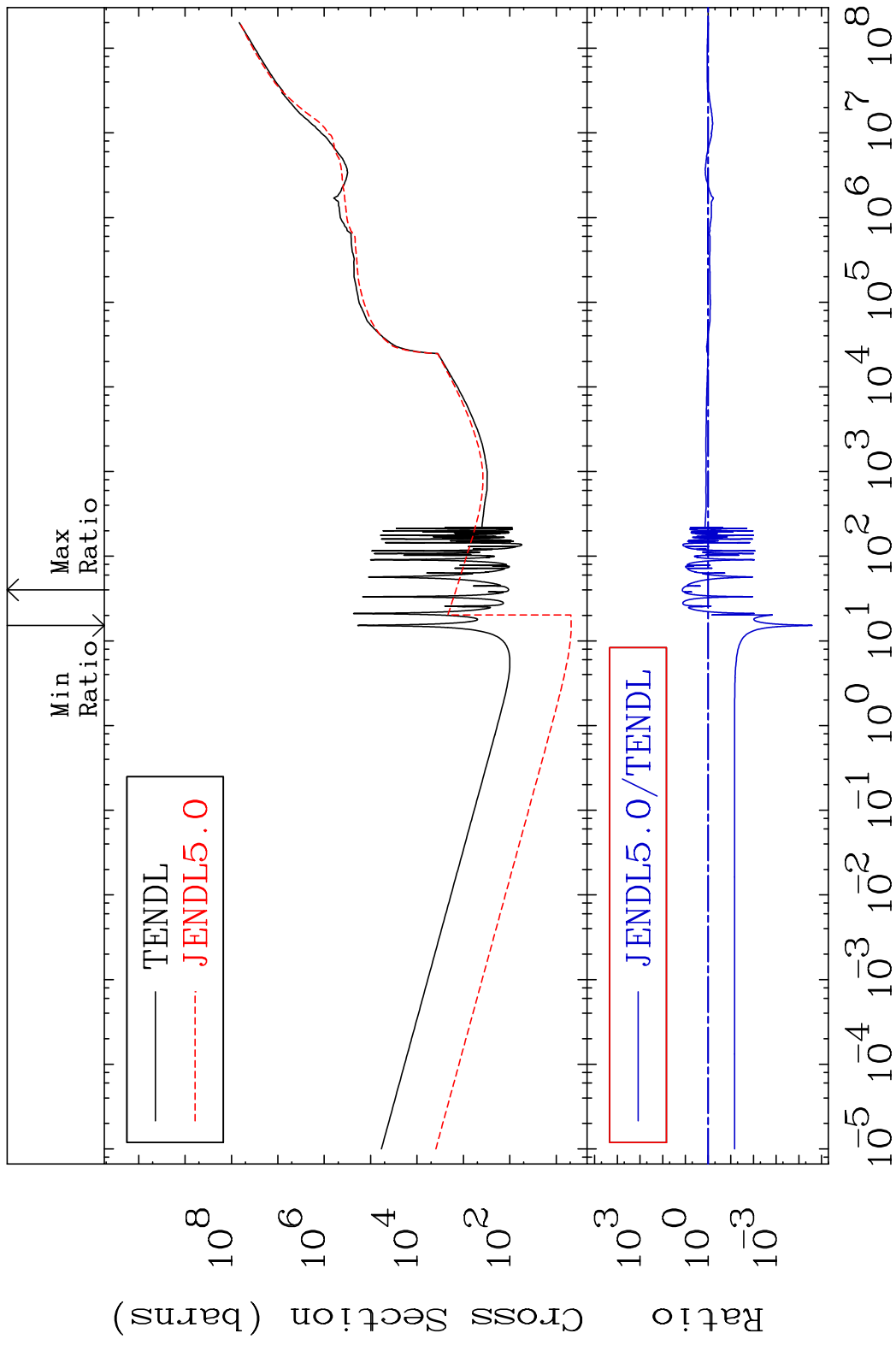
MAT 4520 He-4 Production 45-Rh-101m
 Cross Section -99.14 To 588.7 %



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

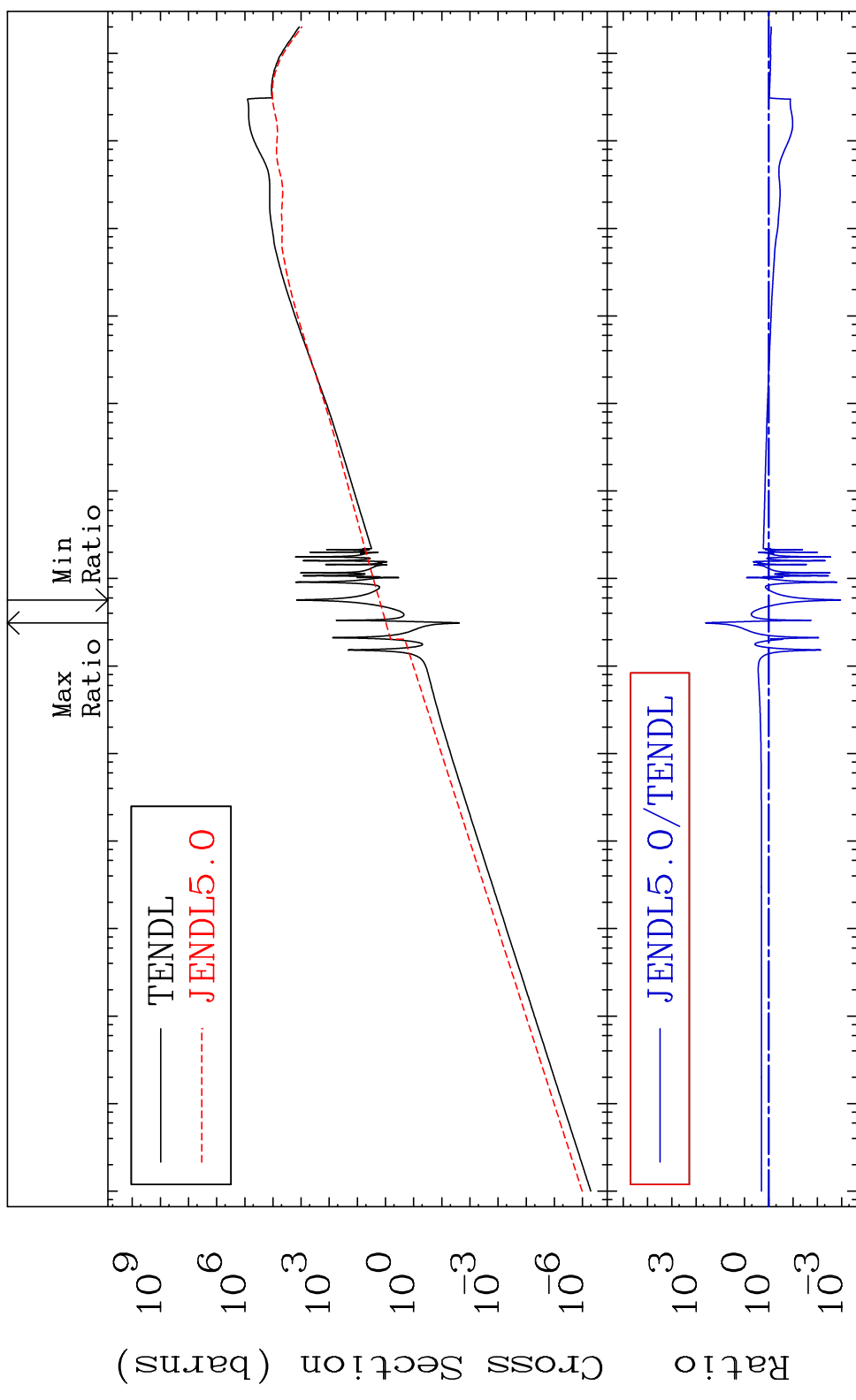
57 Incident Energy (eV) 45-Rh-101m

MAT 4520 Kerma total (eV-barns) 45-Rh-101m
 Cross Section -100.0 To 1264. %



MAT 4520

Kerma elastic Cross Section -99.89 To 9999. %
45-Rh-101m

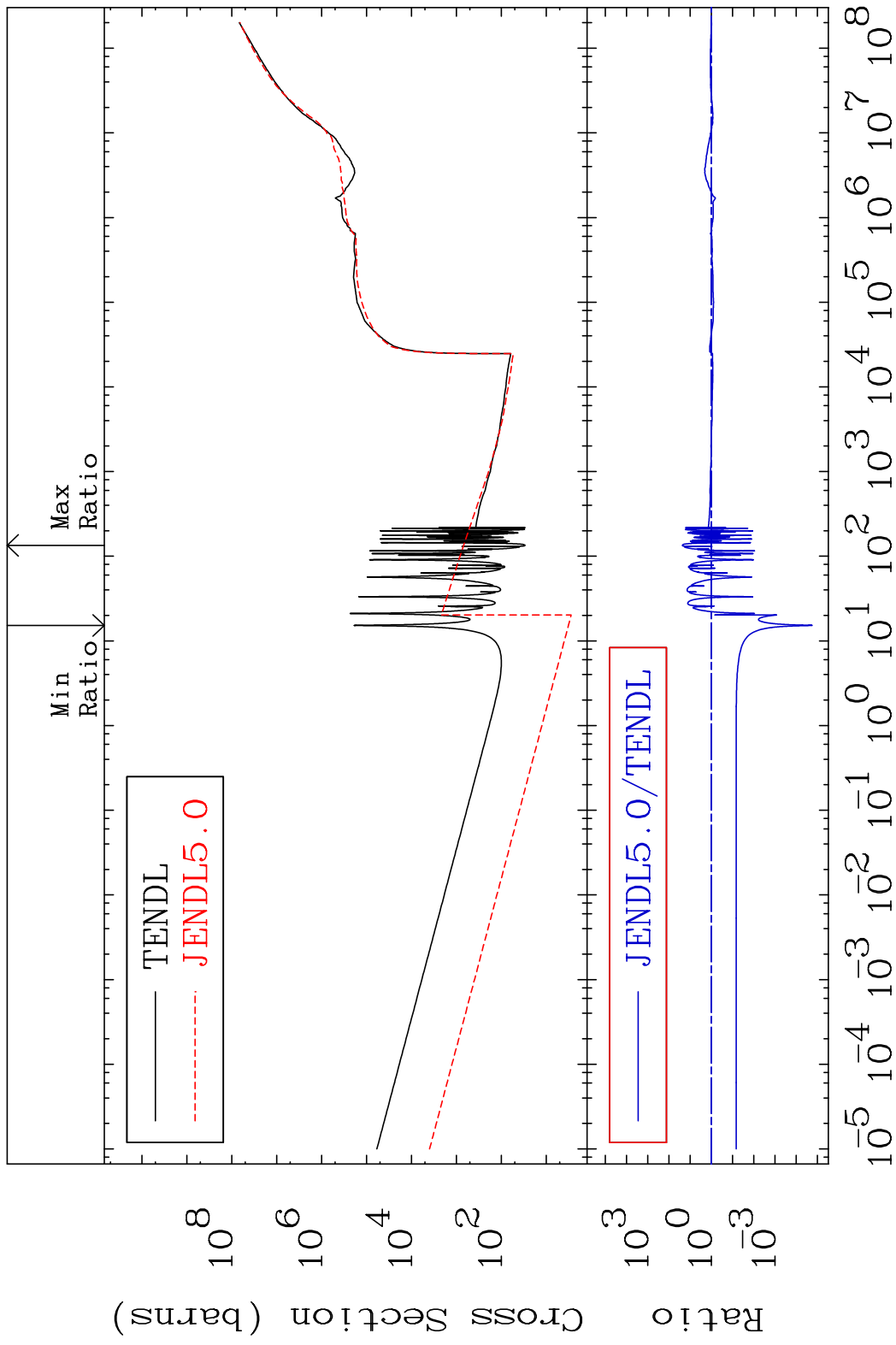


59

Incident Energy (eV)

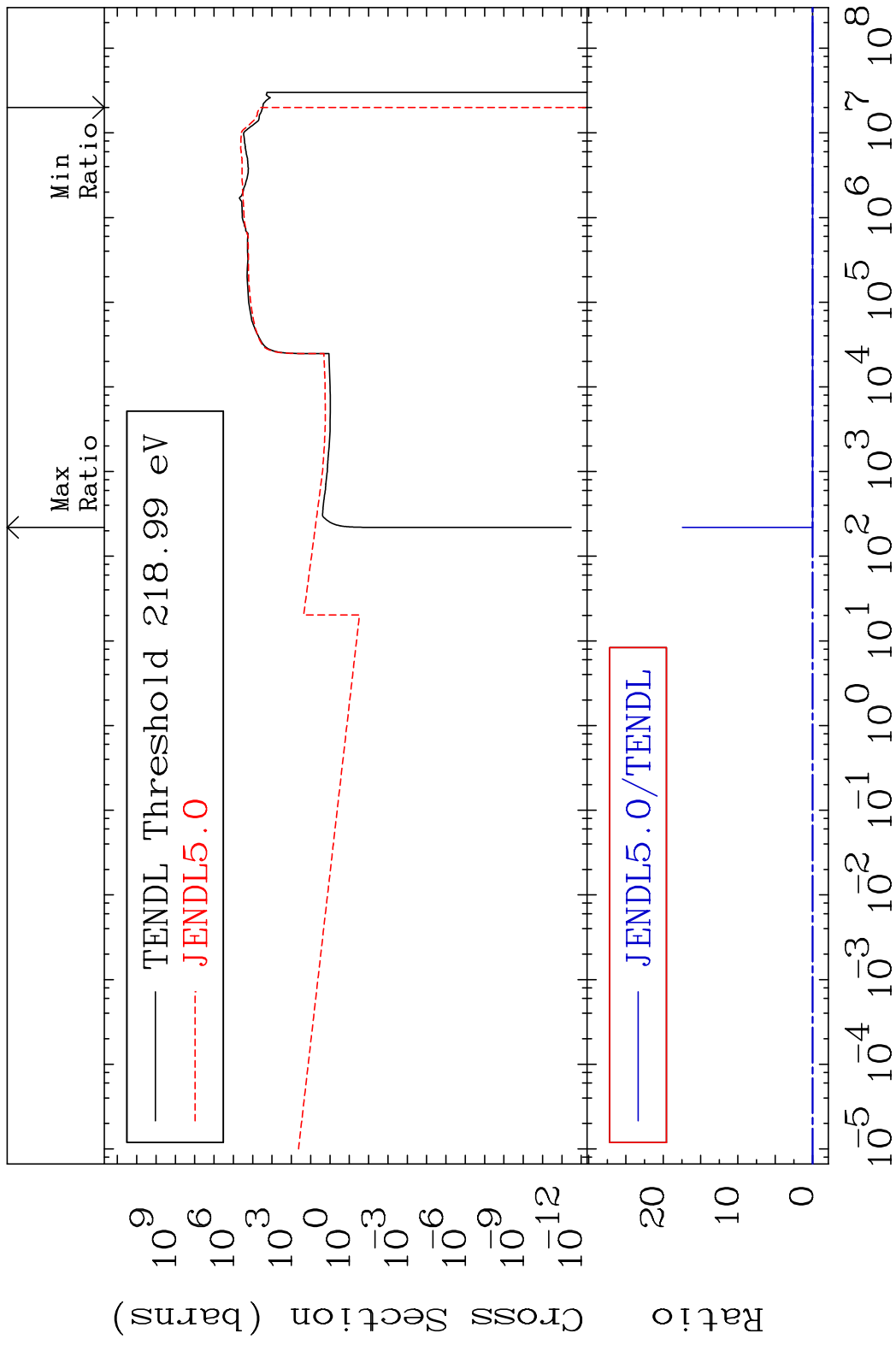
45-Rh-101m

MAT 4520 Kerma non-elastic (all but mt2) 45-Rh-101m
 Cross Section -100.0 To 2222. %



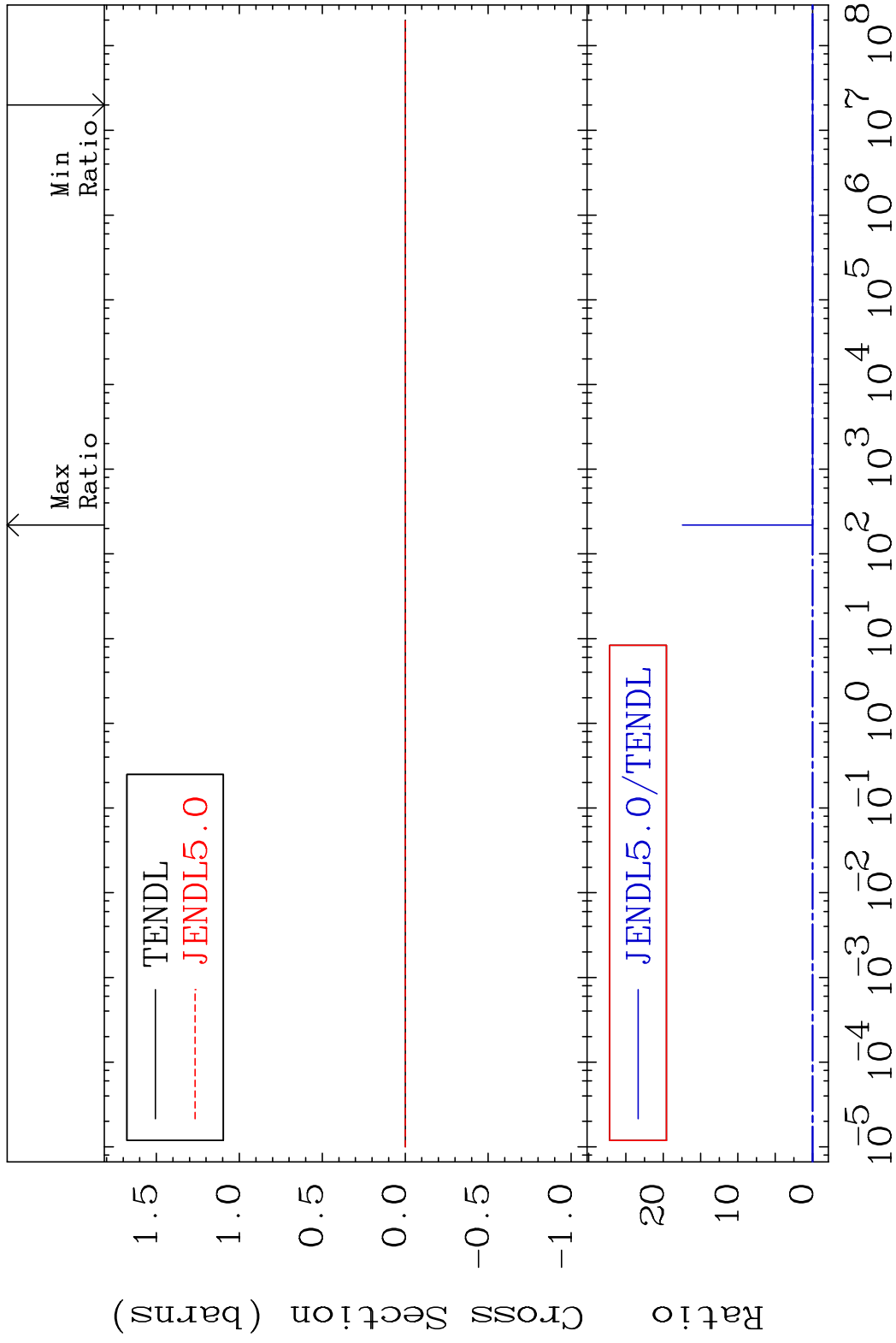
60 Incident Energy (eV) 45-Rh-101m

MAT 4520 Kerma inelastic (mt51-91) 45-Rh-101m
 Cross Section -100.0 To 9999. %

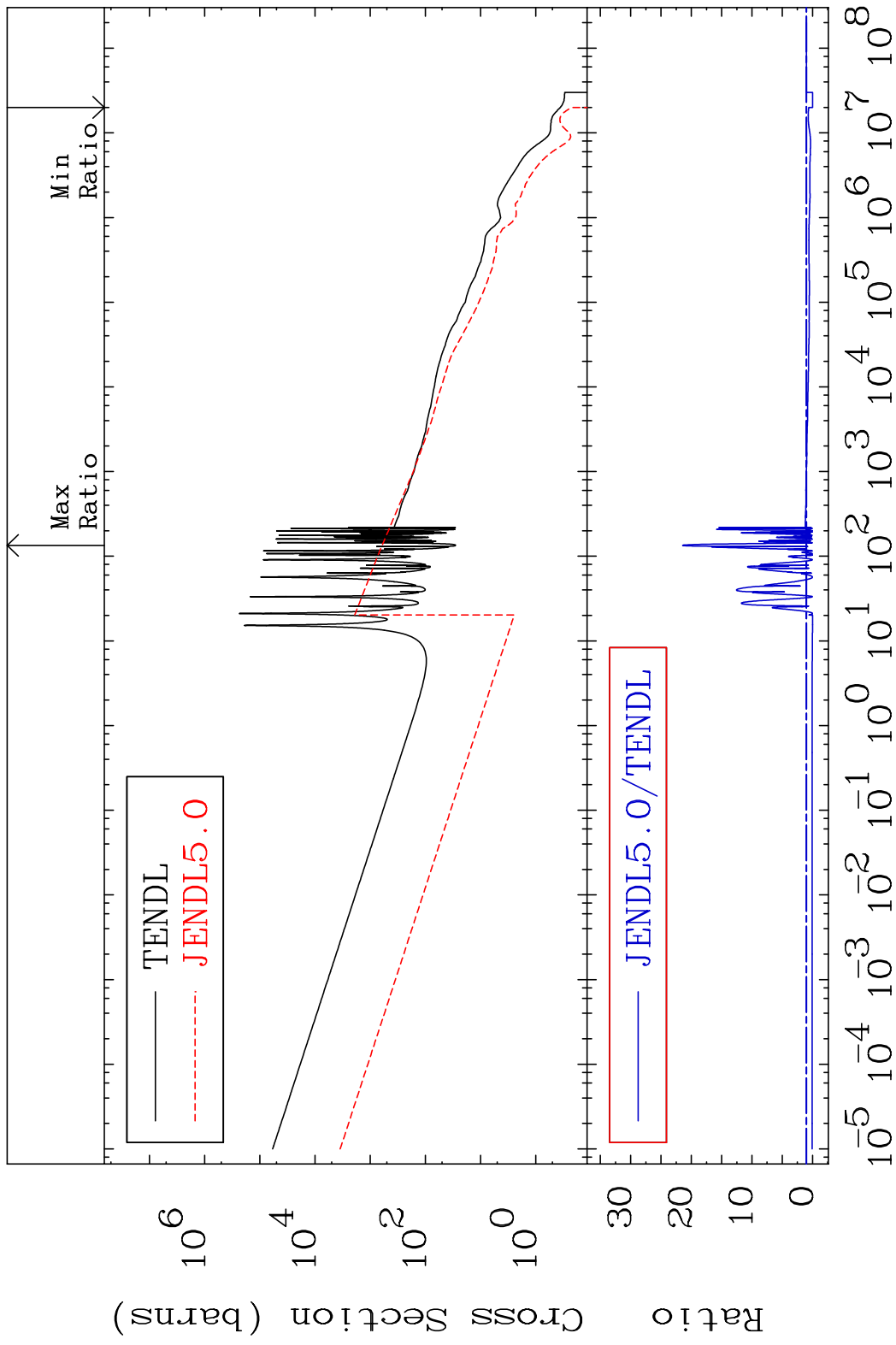


61 Incident Energy (eV) 45-Rh-101m

MAT 4520 Kerma fission (mt18 or mt19-20-21-38) 45-Rh-101m
 Cross Section -100.0 To 9999. %

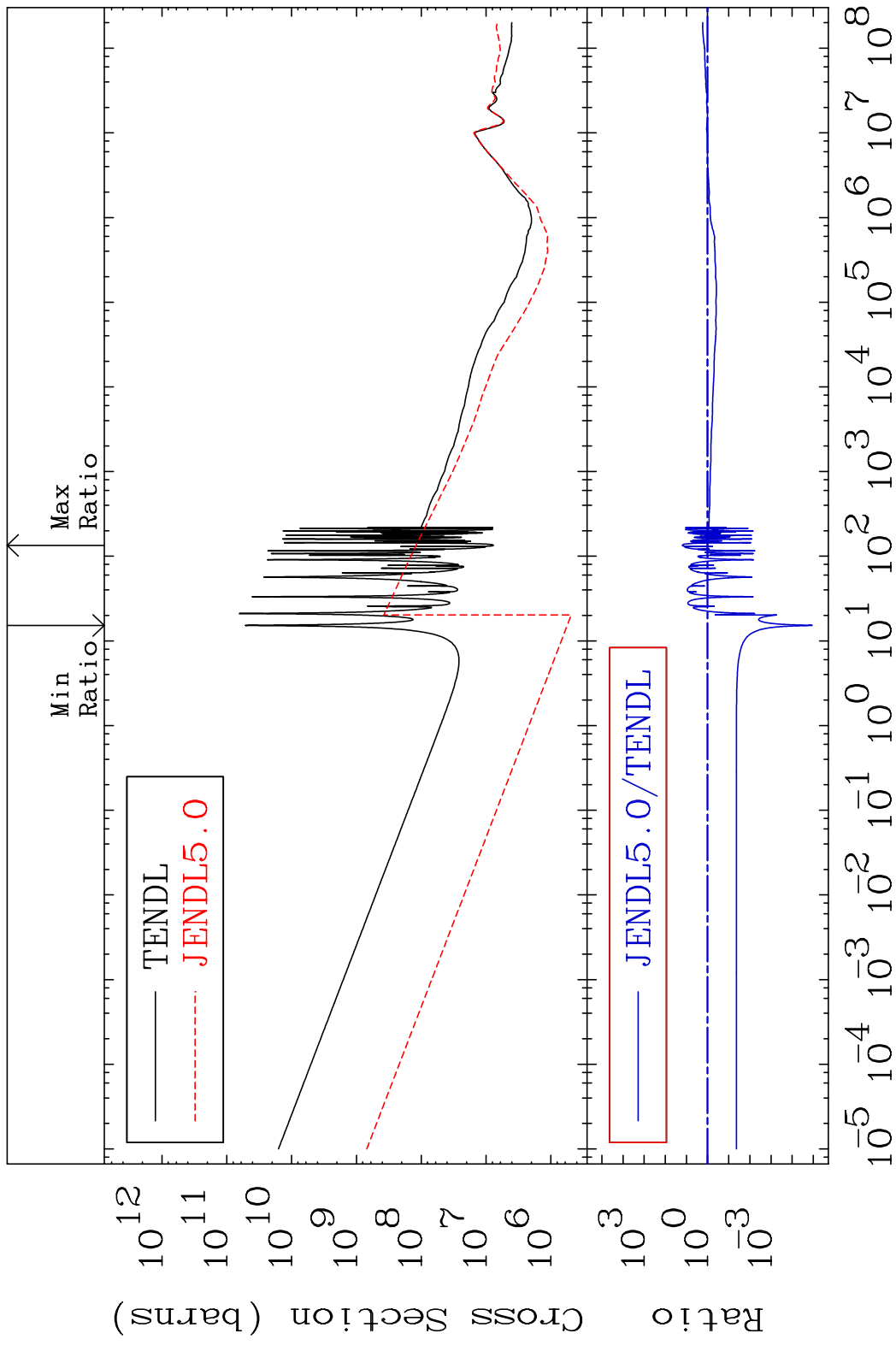


MAT 4520 Kerma capture (mt102) 45-Rh-101m
 Cross Section -100.0 To 2048. %



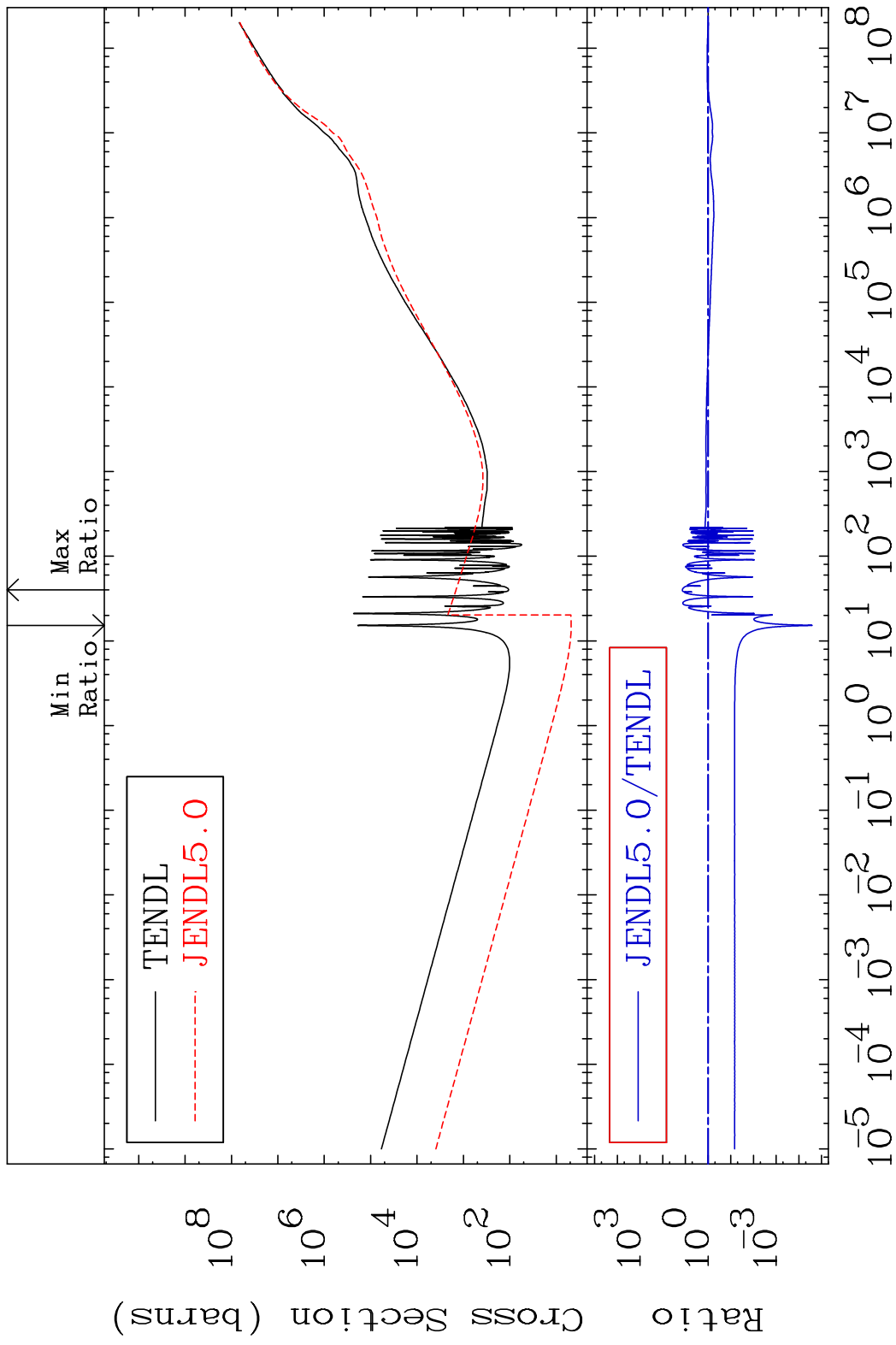
63 Incident Energy (eV) 45-Rh-101m

MAT 4520 Total photon (eV-barns) 45-Rh-101m
 Cross Section -100.0 To 1460. %



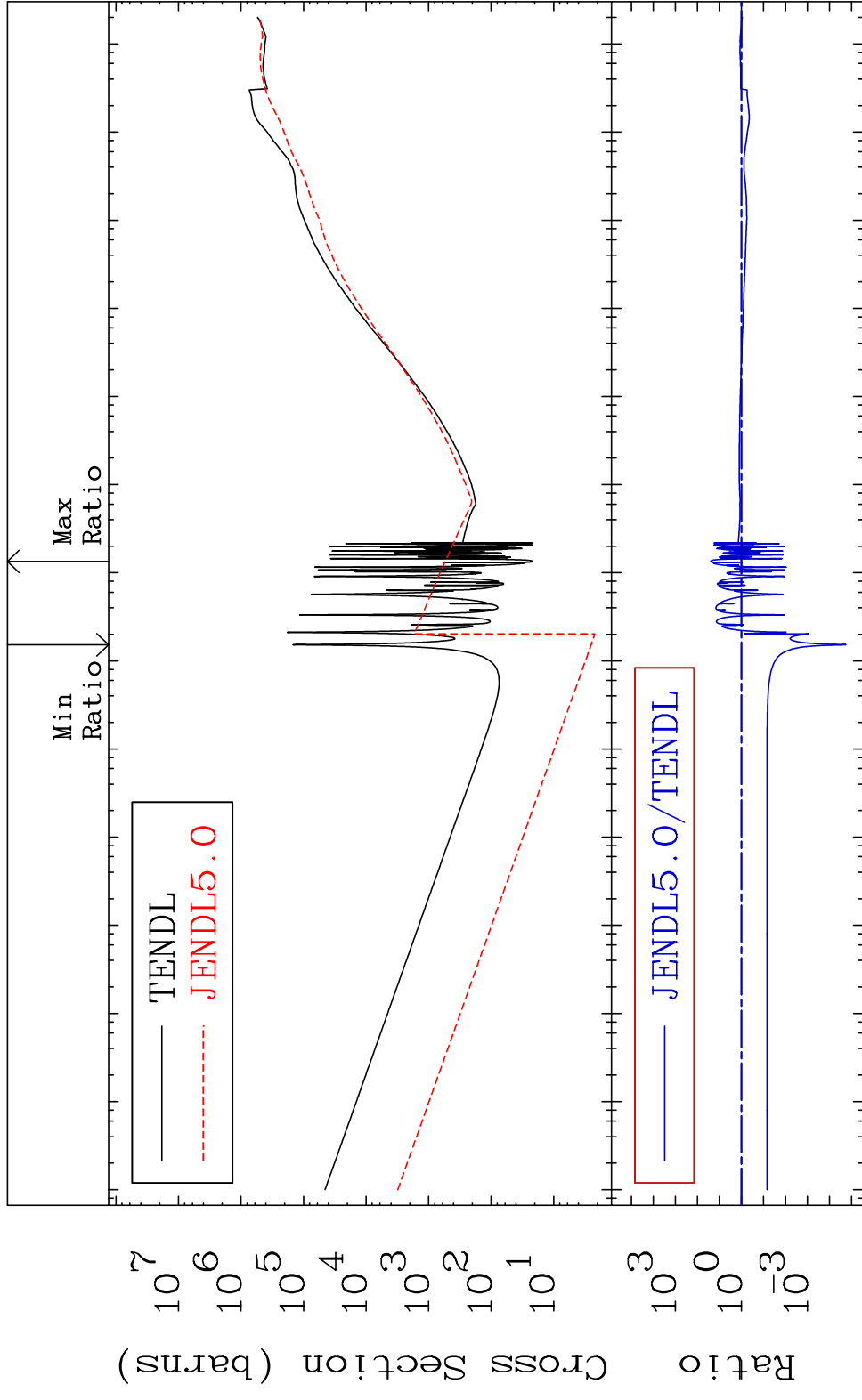
64 Incident Energy (eV) 45-Rh-101m

MAT 4520 Total kinematic kerma (high limit)45-Rh-101m
 Cross Section -100.0 To 1263. %



65 Incident Energy (eV) 45-Rh-101m

MAT 4520 Dpa total (eV-barns) 45-Rh-101m
 Cross Section -100.0 To 2381. %



66 Incident Energy (eV) 45-Rh-101m

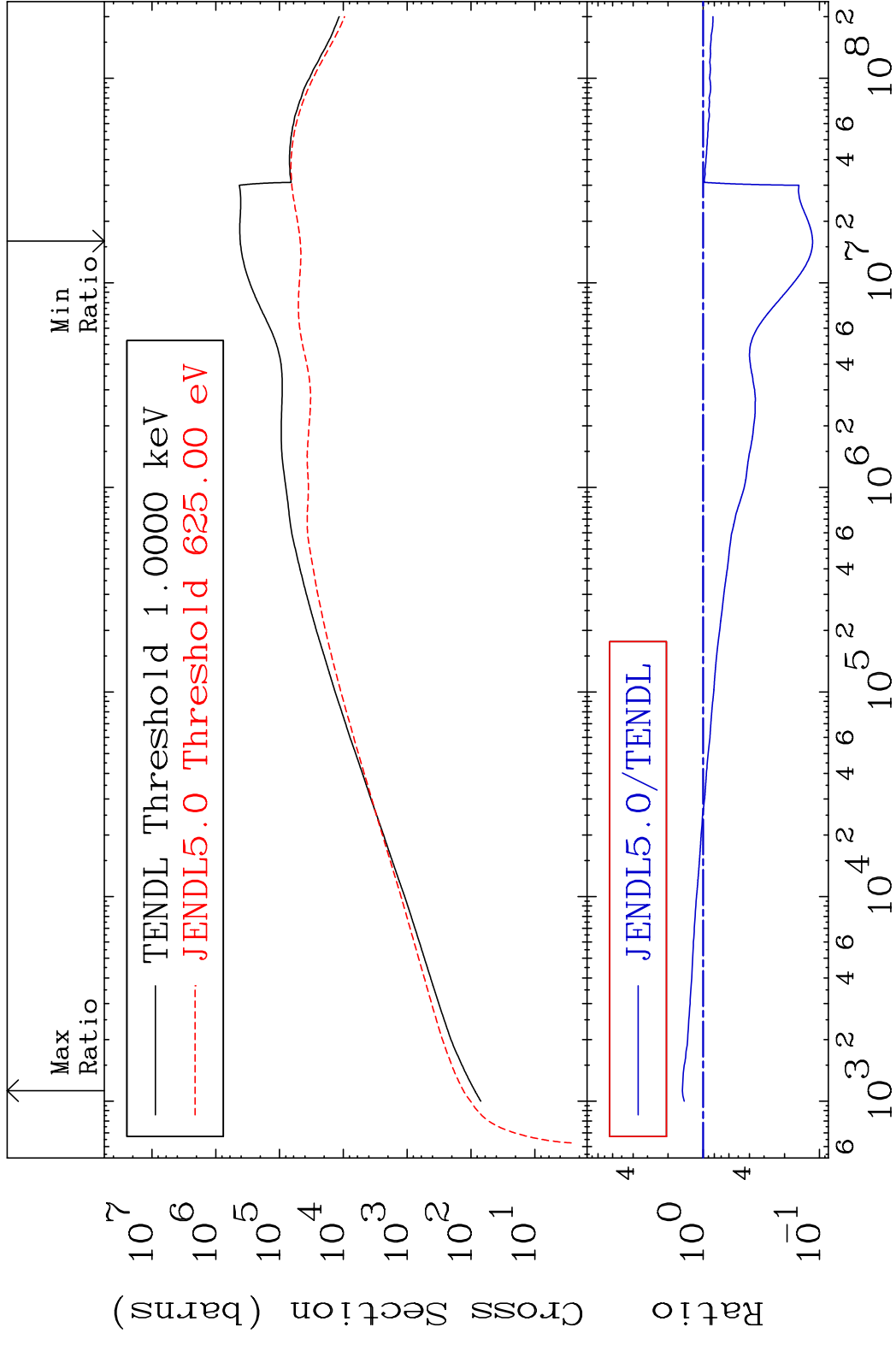
MAT 4520

Dpa elastic (mt2)

45-Rh-101m

Cross Section

-88.52 To 50.79 %



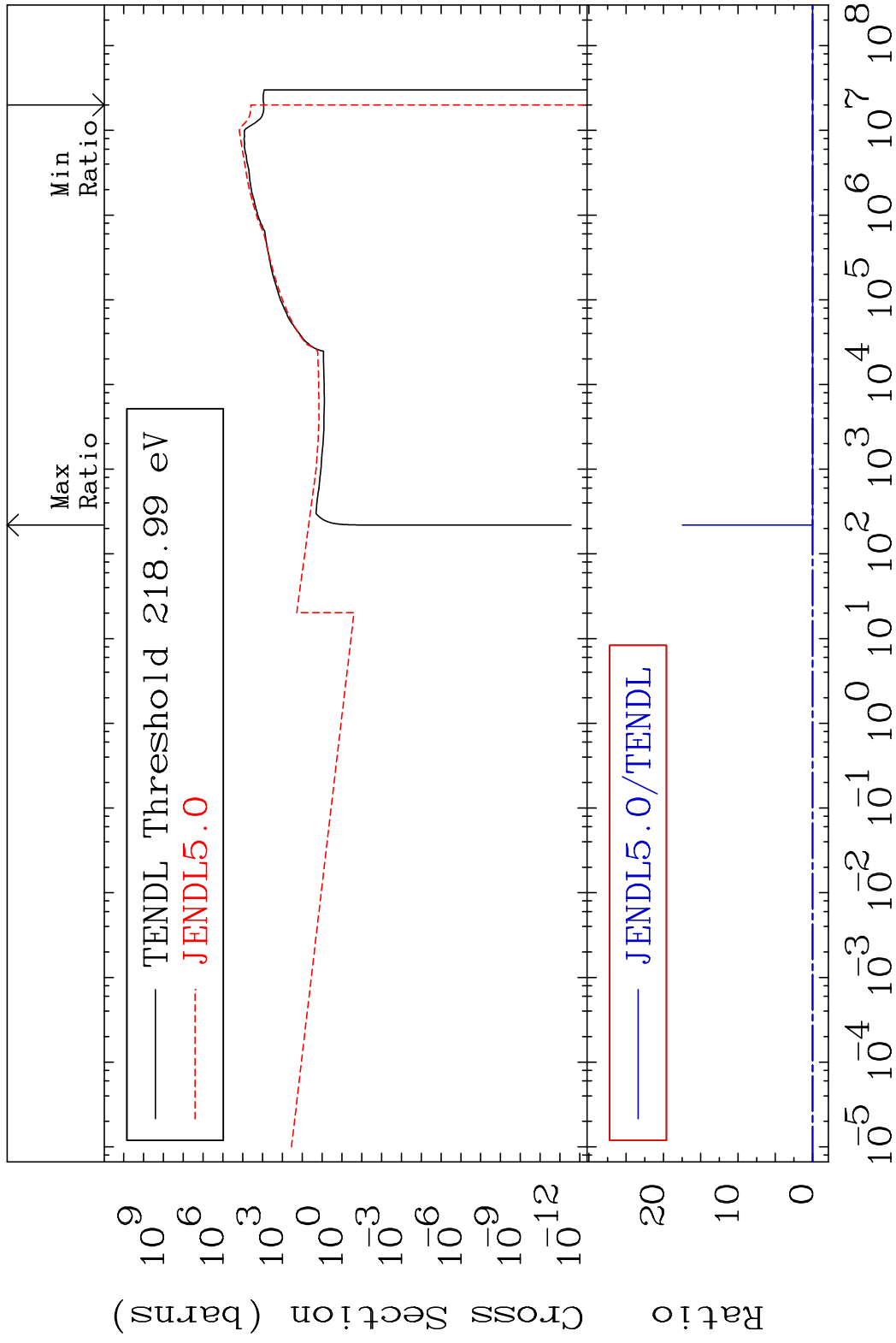
67

Incident Energy (eV)

45-Rh-101m

MAT 4520

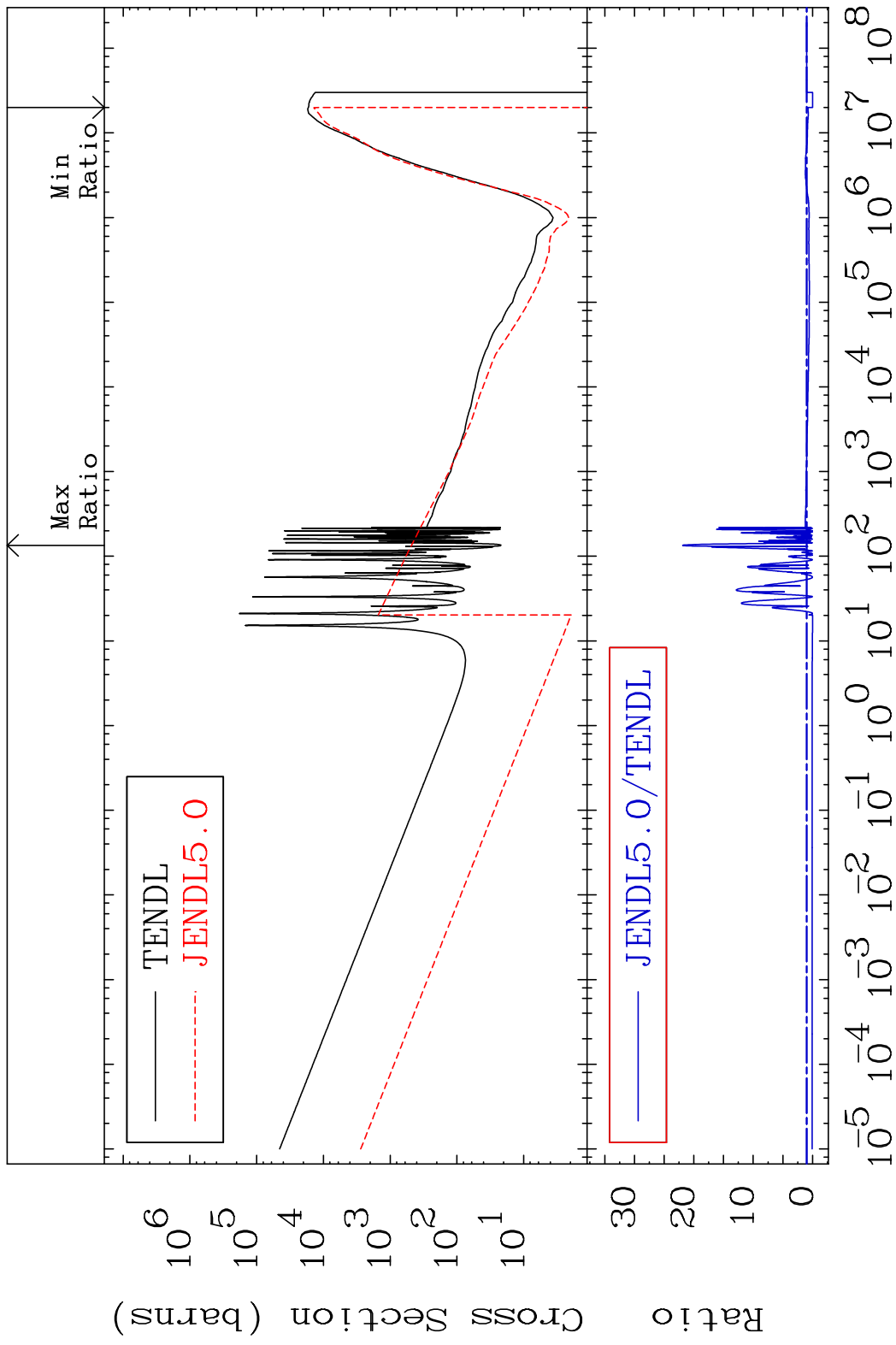
Dpa inelastic (mt51-91) 45-Rh-101m
Cross Section -100.0 To 9999. %



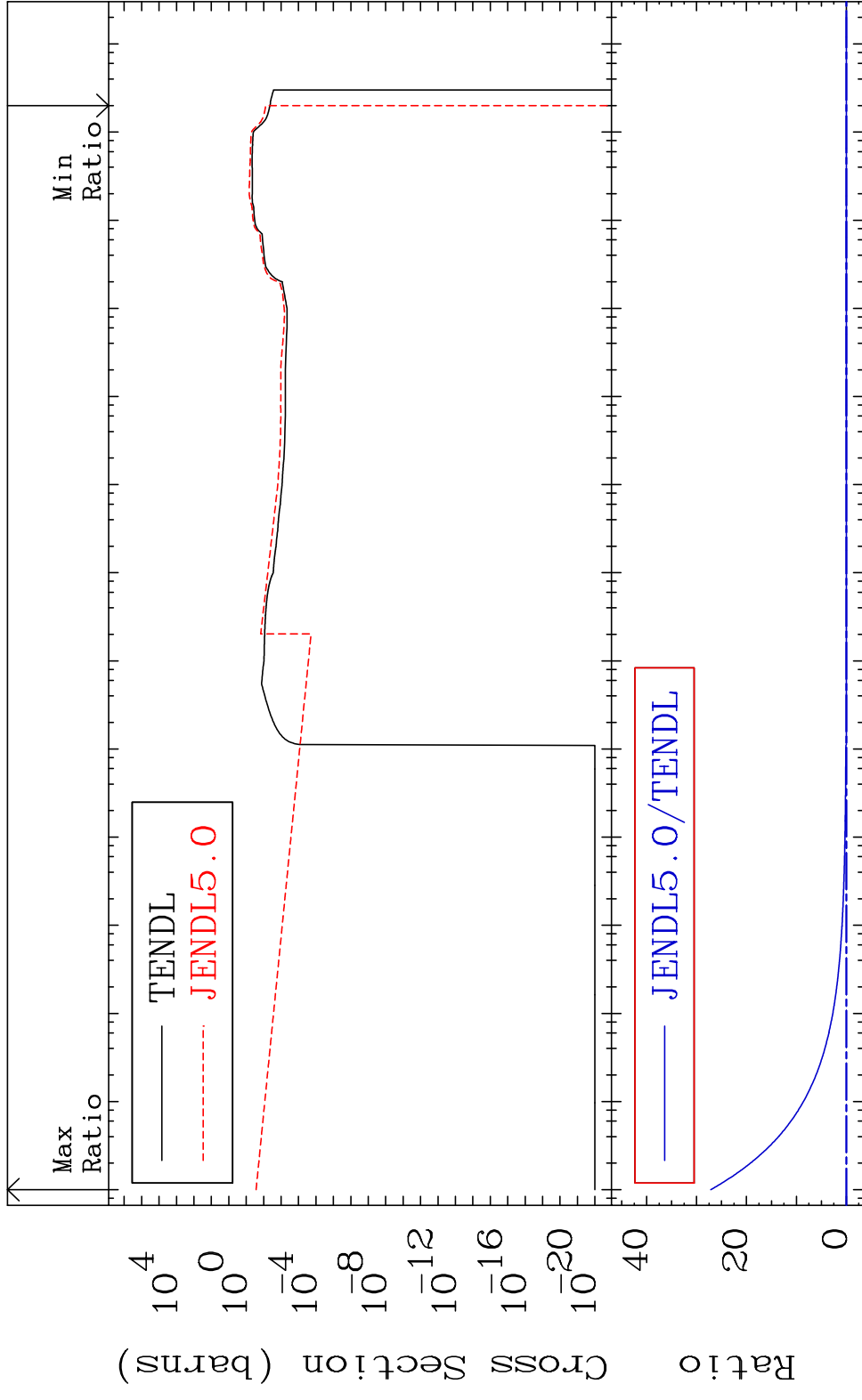
68

Incident Energy (eV) 45-Rh-101m

MAT 4520 Dpa disappearance (mt102 -120) 45-Rh-101m
 Cross Section -100.0 To 2093. %

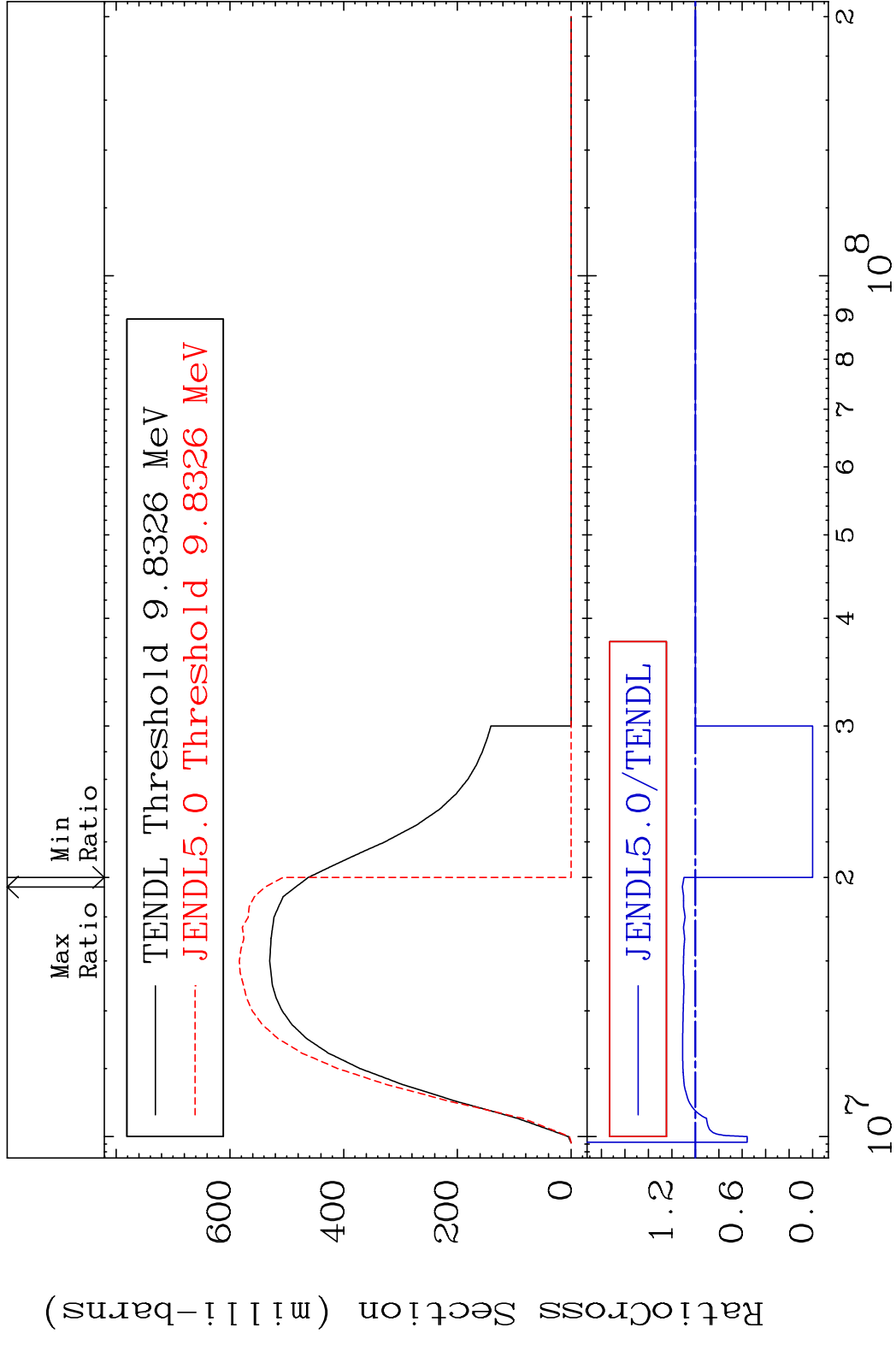


MAT 4520 Inelastic:45-Rh-101g 45-Rh-101m
 Radionuclide Production Cross Section 100.00 to 9999.99 %



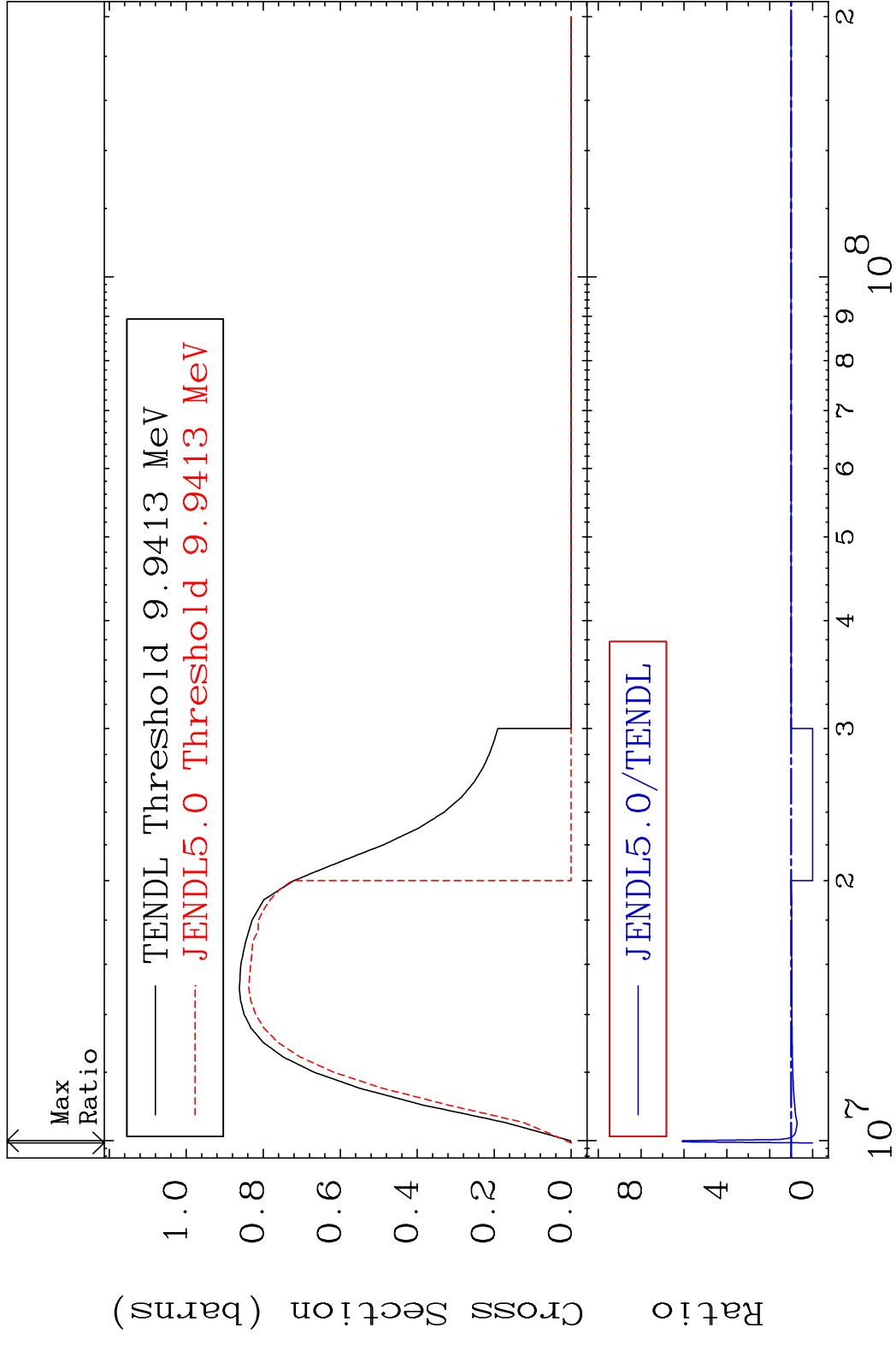
70 Incident Energy (eV) 45-Rh-101m

MAT 4520 (n,2n):45-Rh-100g 45-Rh-101m
 Radionuclide Production Cross Section 180.01 mb 11.06 %



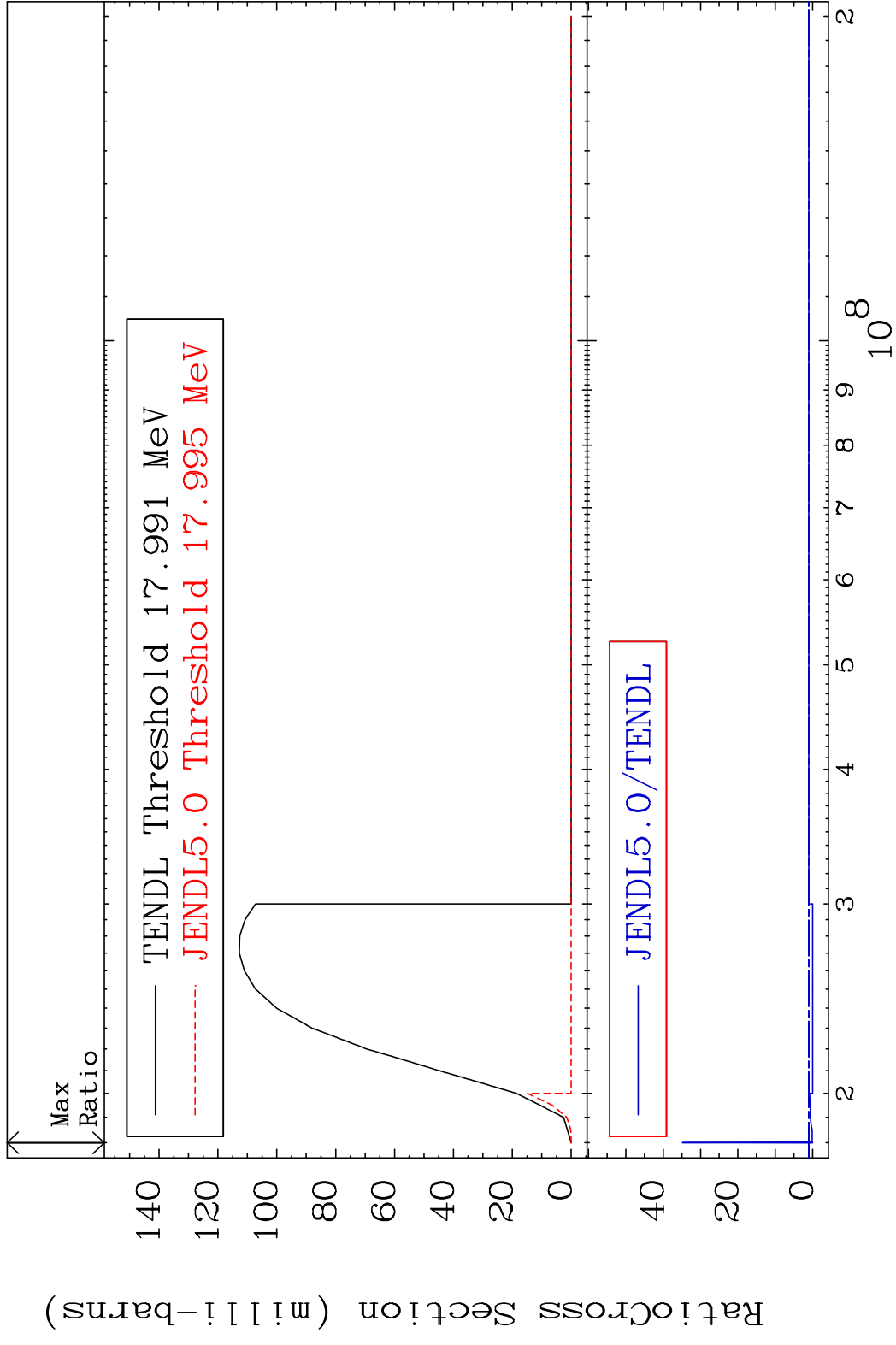
71 Incident Energy (eV) 45-Rh-101m

MAT 4520 (n, 2n) : 45-Rh-100m4 45-Rh-101m
 Radionuclide Production Cross Section to 507.7 %

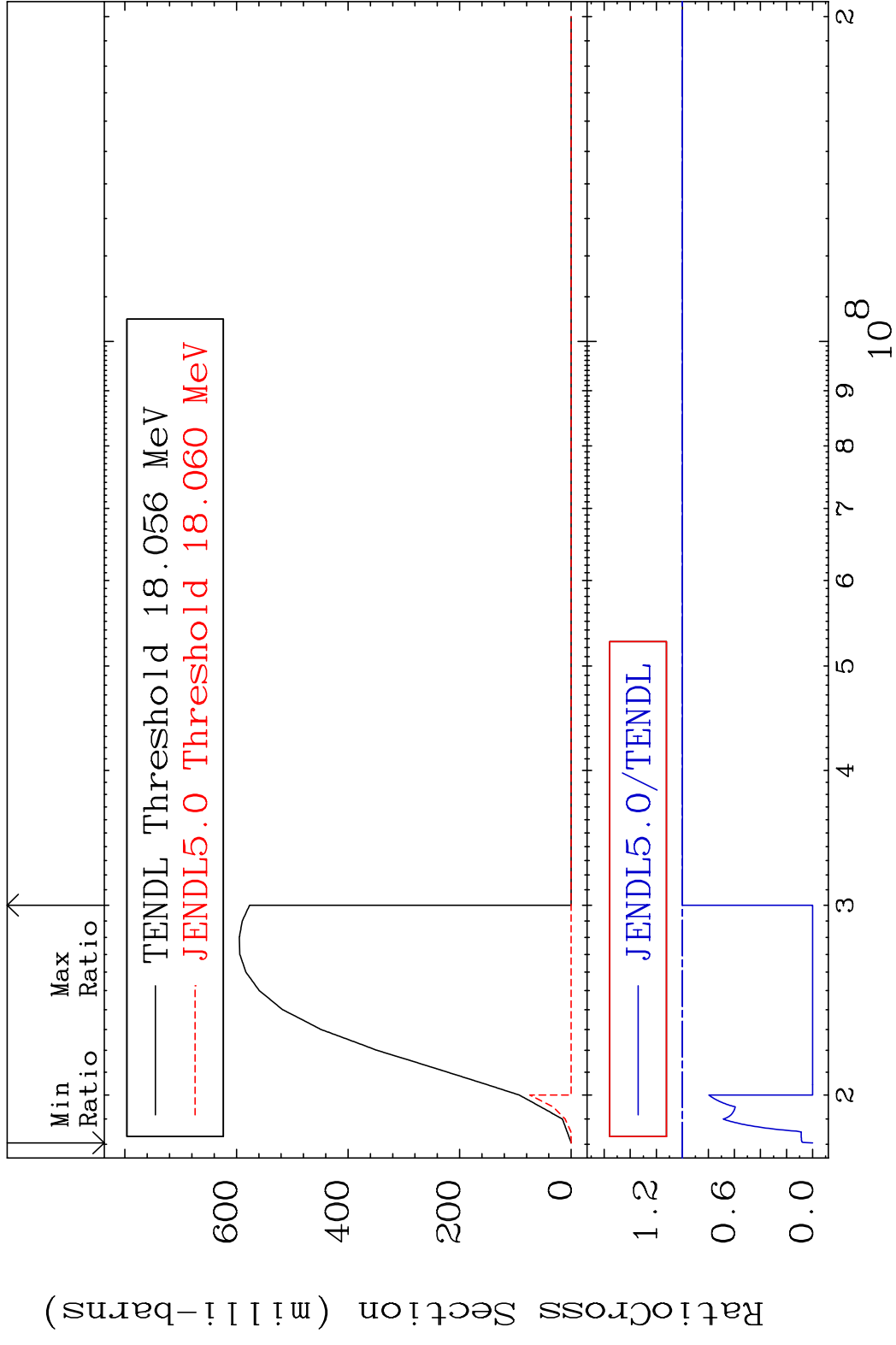


72 Incident Energy (eV) 45-Rh-101m

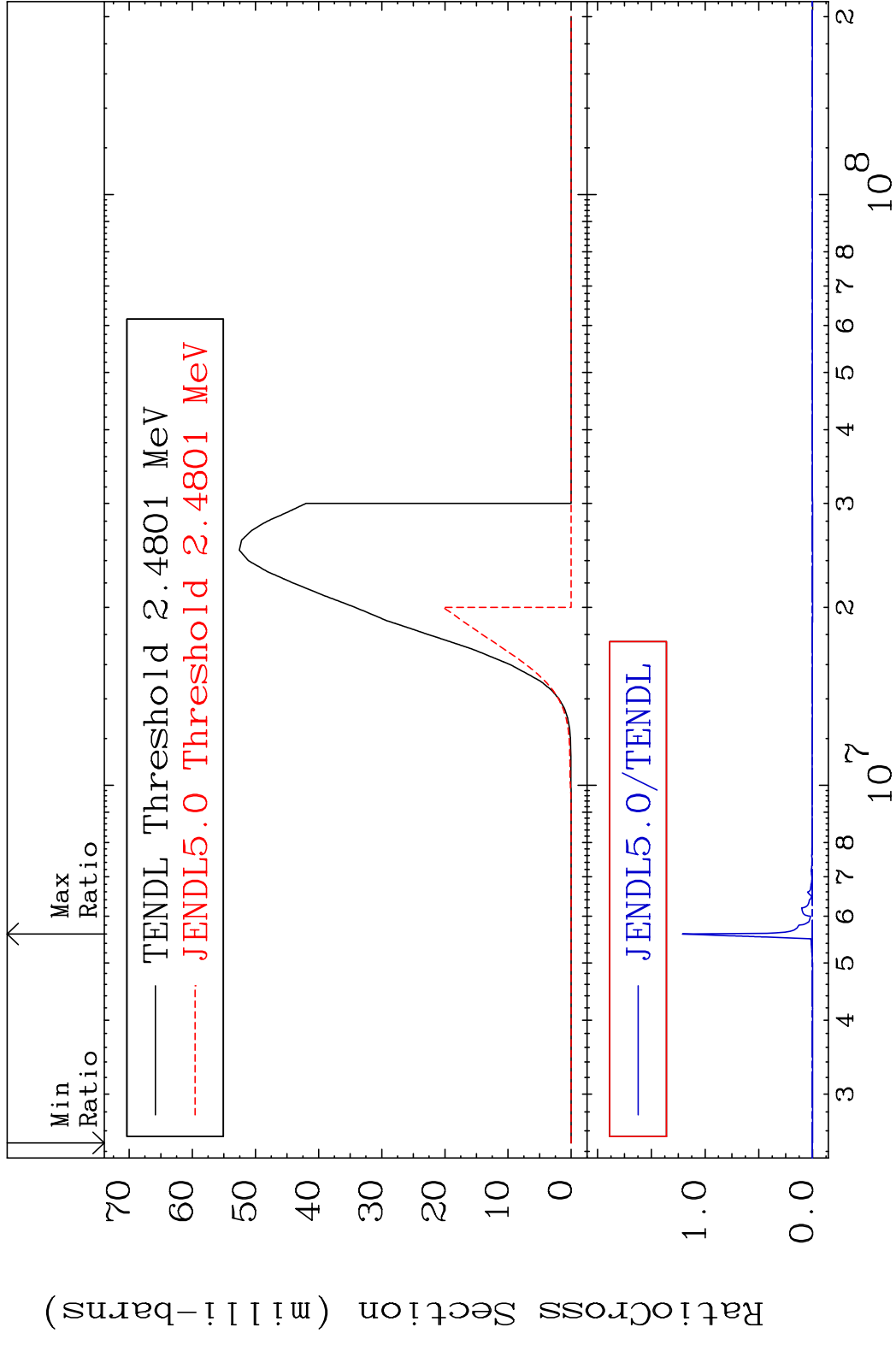
MAT 4520 (n,3n):45-Rh-99g 45-Rh-101m
 Radionuclide Production Cross Section to 3387. %



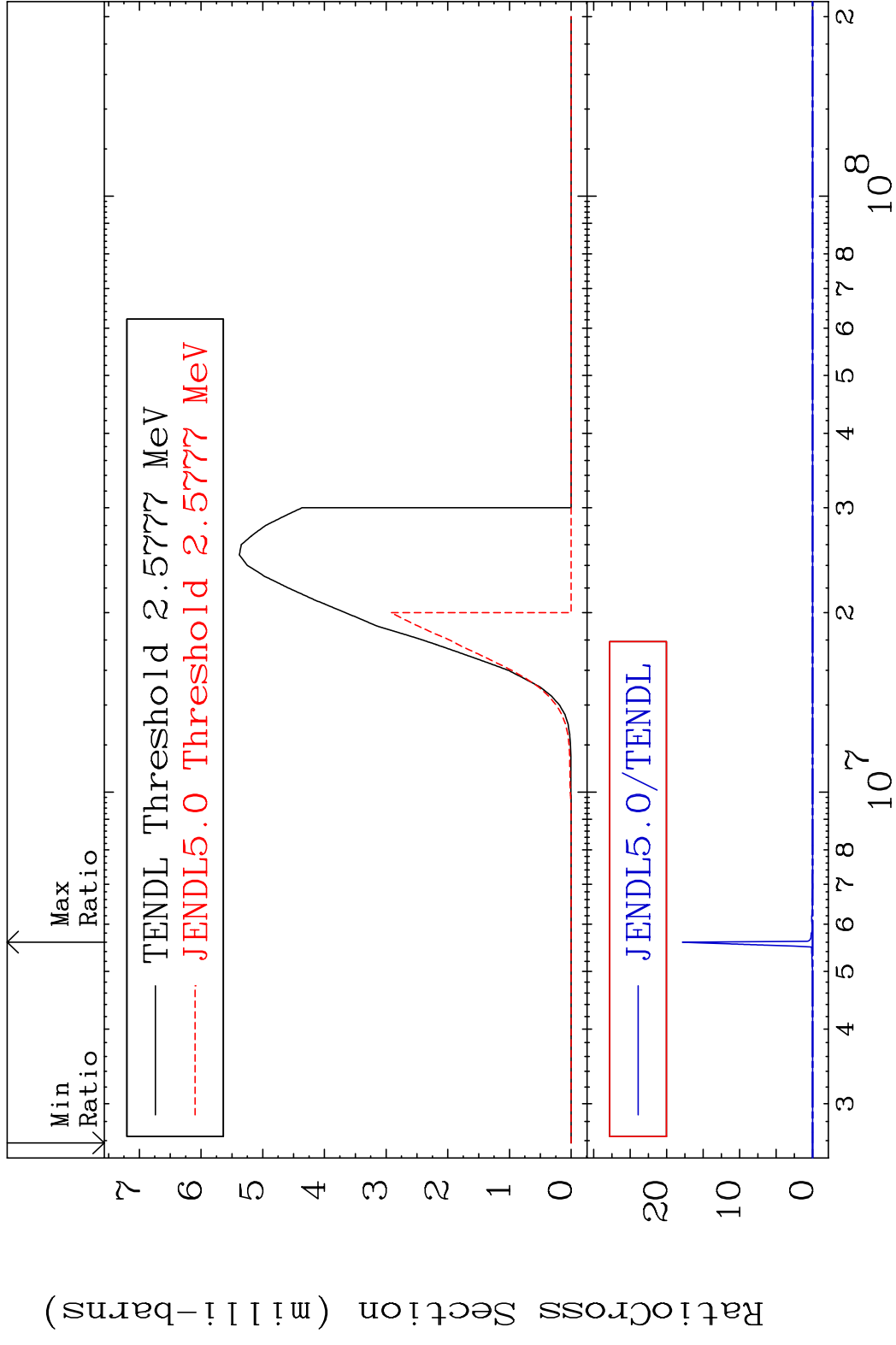
MAT 4520 (n,3n):45-Rh-99m1 45-Rh-101m
 Radionuclide Production Cross Section 18.060 MeV 0.000 %



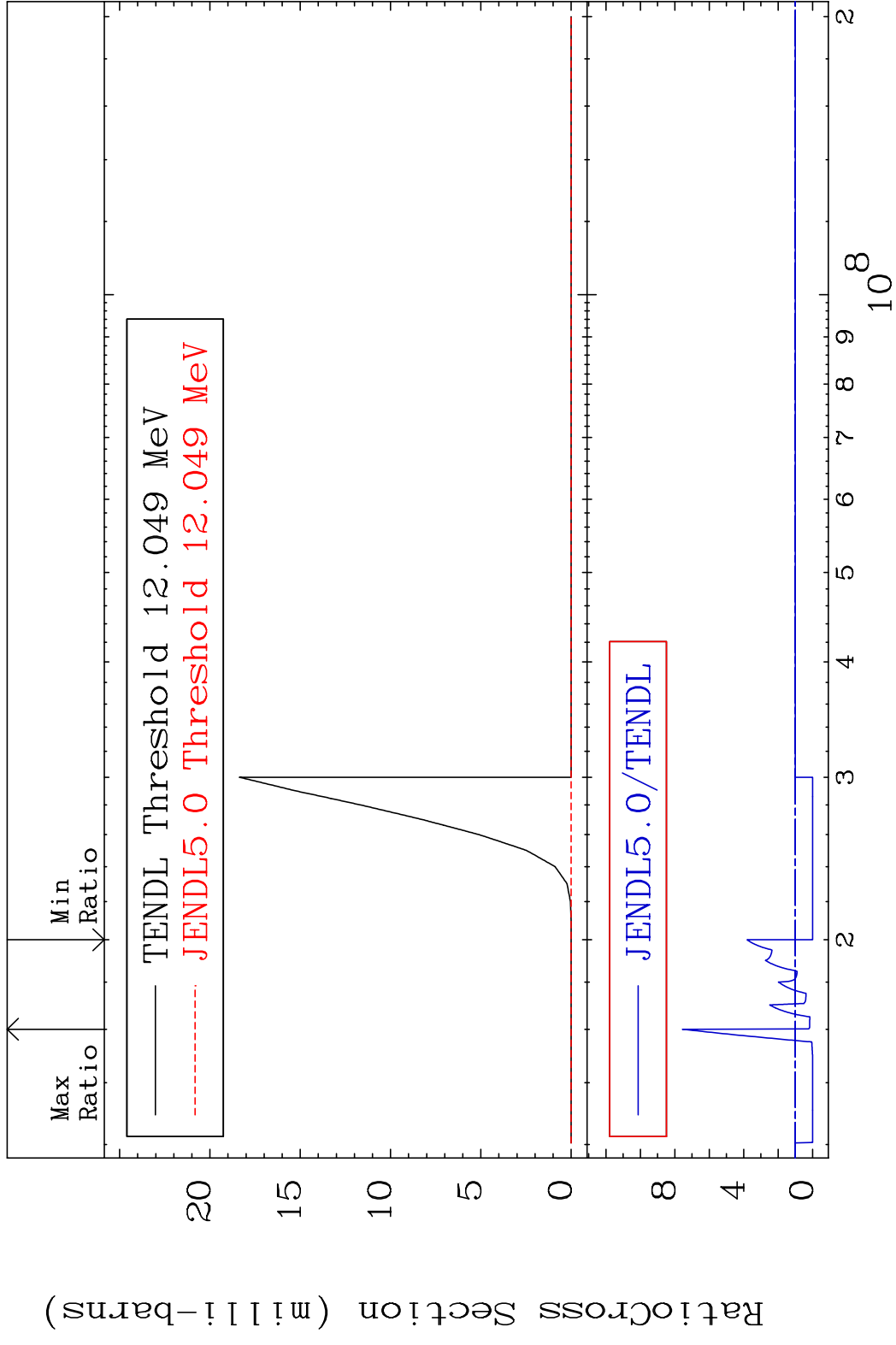
MAT 4520 (n, n') α :43-Tc-97g 45-Rh-101m
 Radionuclide Production Cross Section to 9999. %



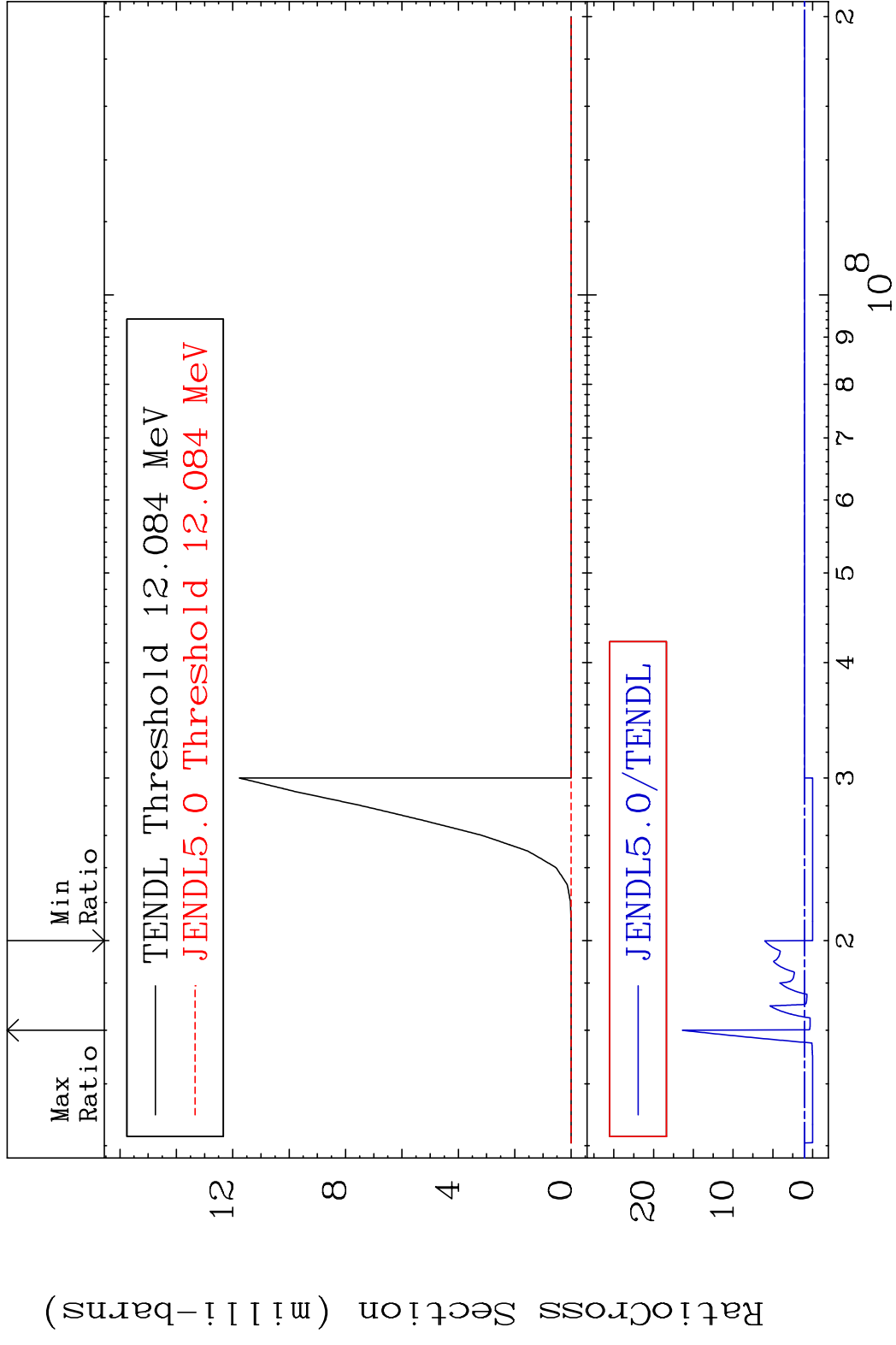
MAT 4520 (n, n') α :43-Tc-97m1 45-Rh-101m
 Radionuclide Production Cross Section to 9999. %



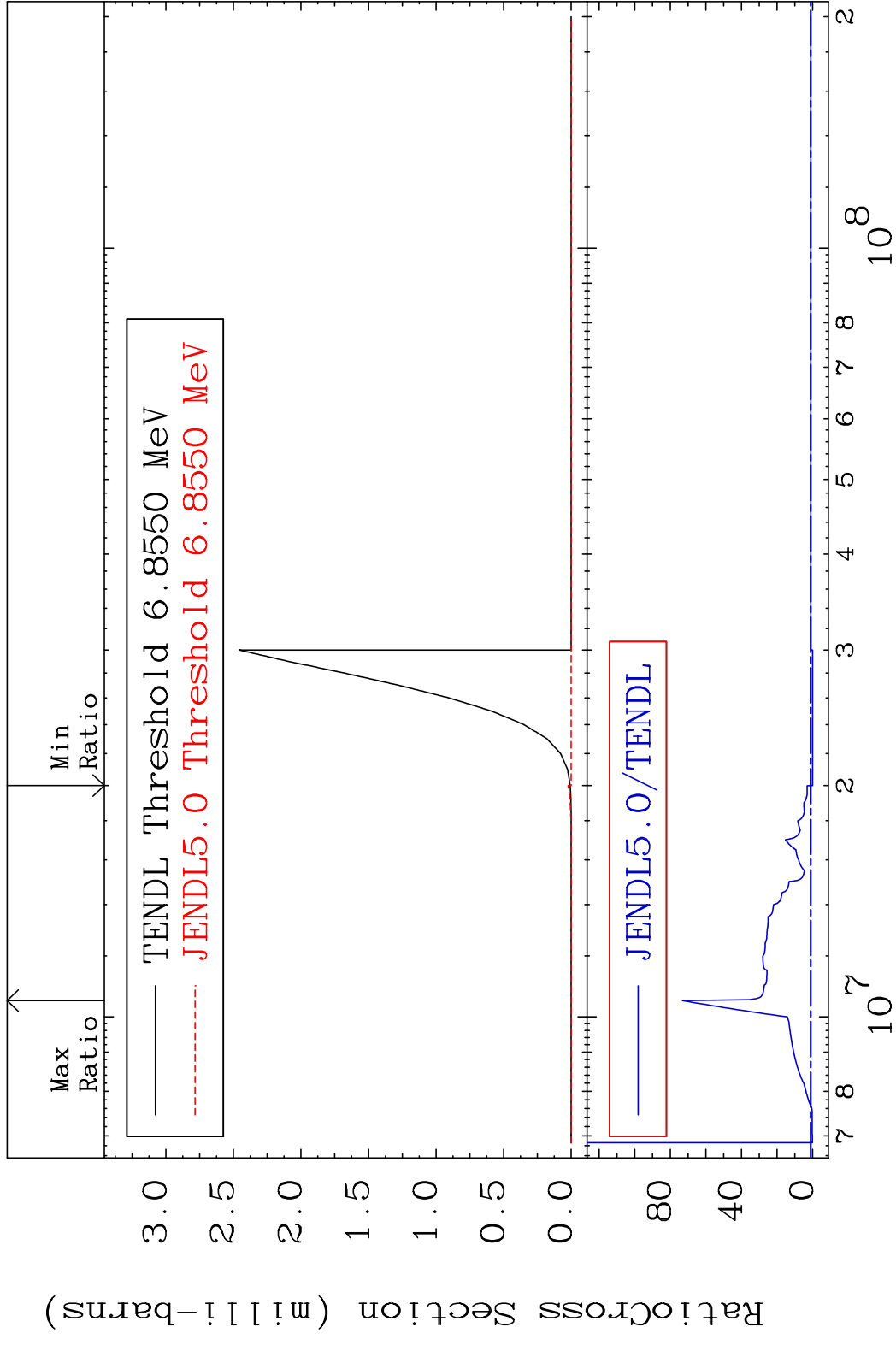
MAT 4520 (n,2n) α :43-Tc-96g 45-Rh-101m
 Radionuclide Production Cross Section 1800.0 dth 656.2 %



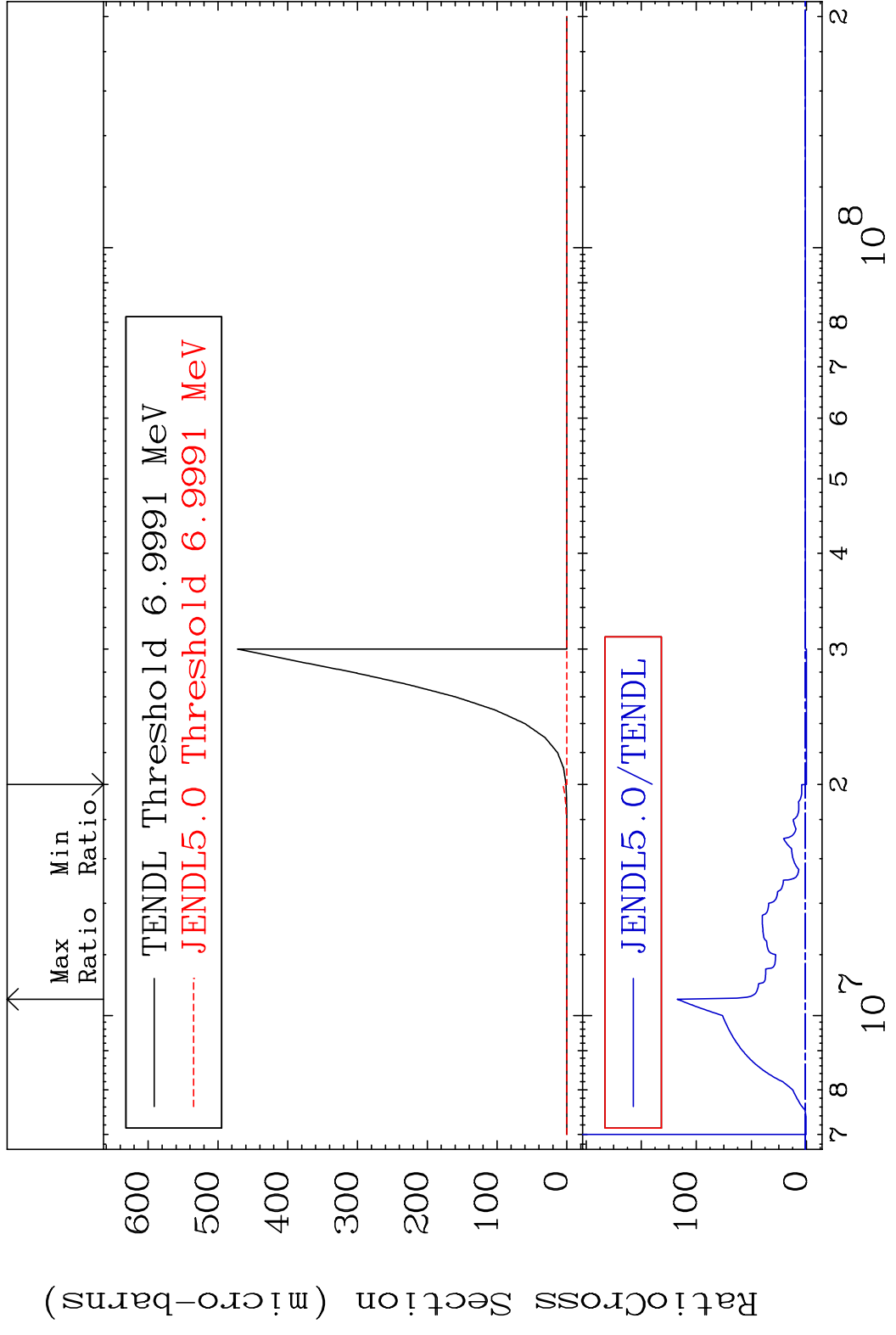
MAT 4520 (n,2n) α :43-Tc-96m1 45-Rh-101m
 Radionuclide Production Cross Section to 1538. %



MAT 4520 (n, He-3): 43-Tc-99g 45-Rh-101m
 Radionuclide Production Cross Section 18000 dth 7224. %



MAT 4520 (n, He-3):43-Tc-99m2 45-Rh-101m
 Radionuclide Production Cross Section 100.00 %



80 Incident Energy (eV) 45-Rh-101m