

Program Complot
(Version 2021-1)

by

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(Present Contact Information)

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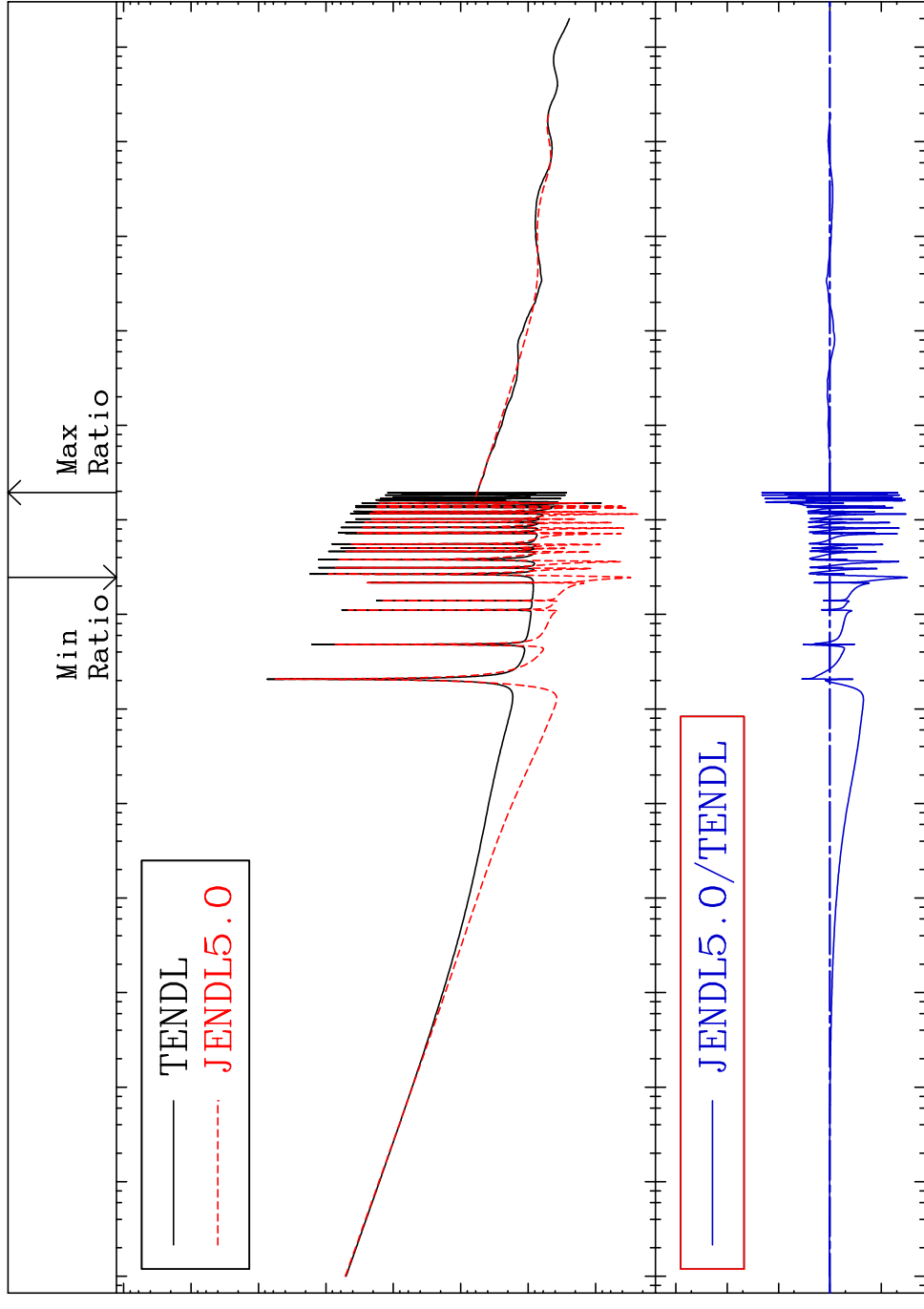
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6243

Total Cross Section -96.87 To 2020. %

62-Sm-150



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

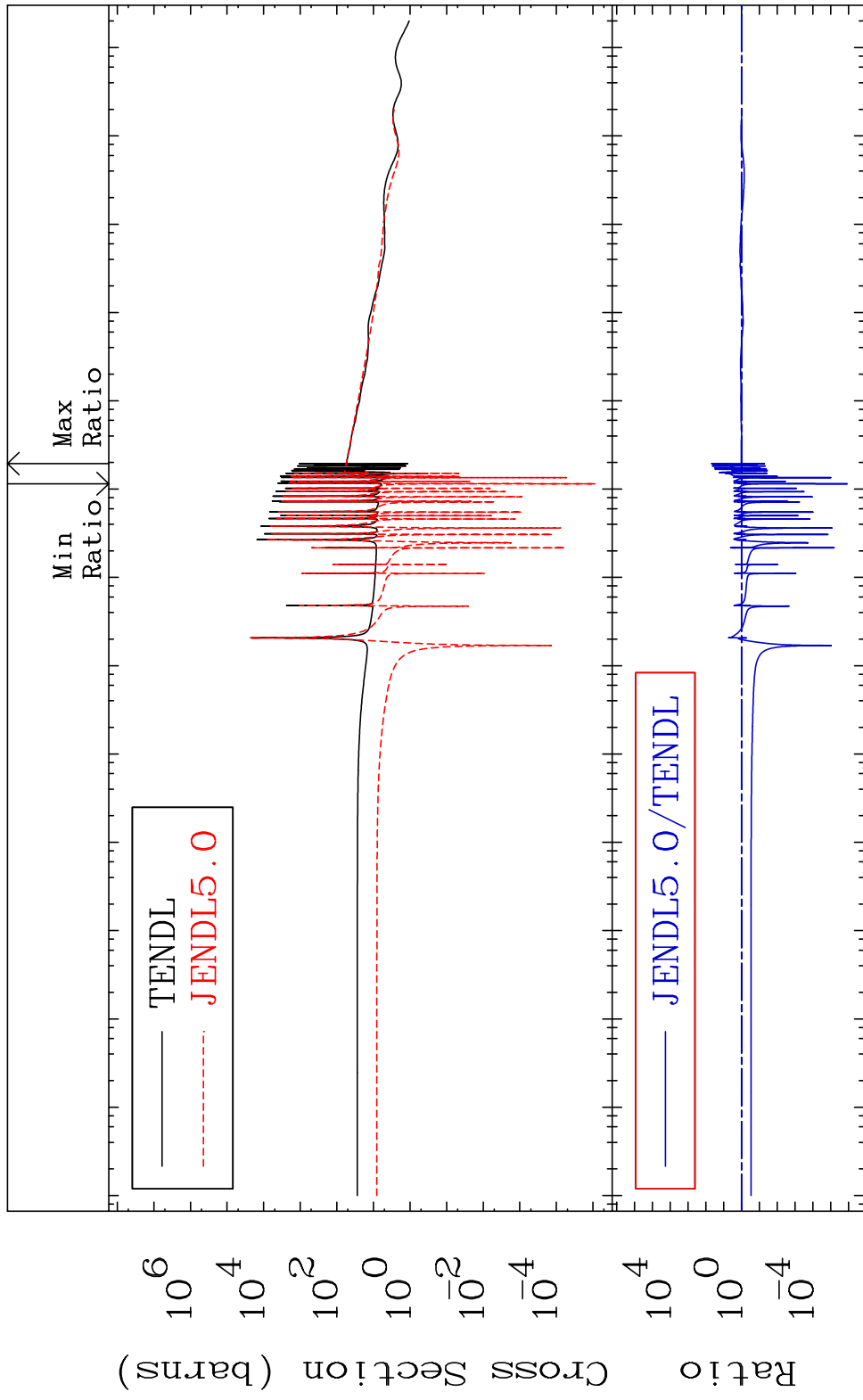
Ratio
10²
10⁰
Incident Energy (eV) 62-Sm-150

MAT 6243

Elastic

62-Sm-150

Cross Section -100.0 To 4707. %



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

2

Incident Energy (eV)

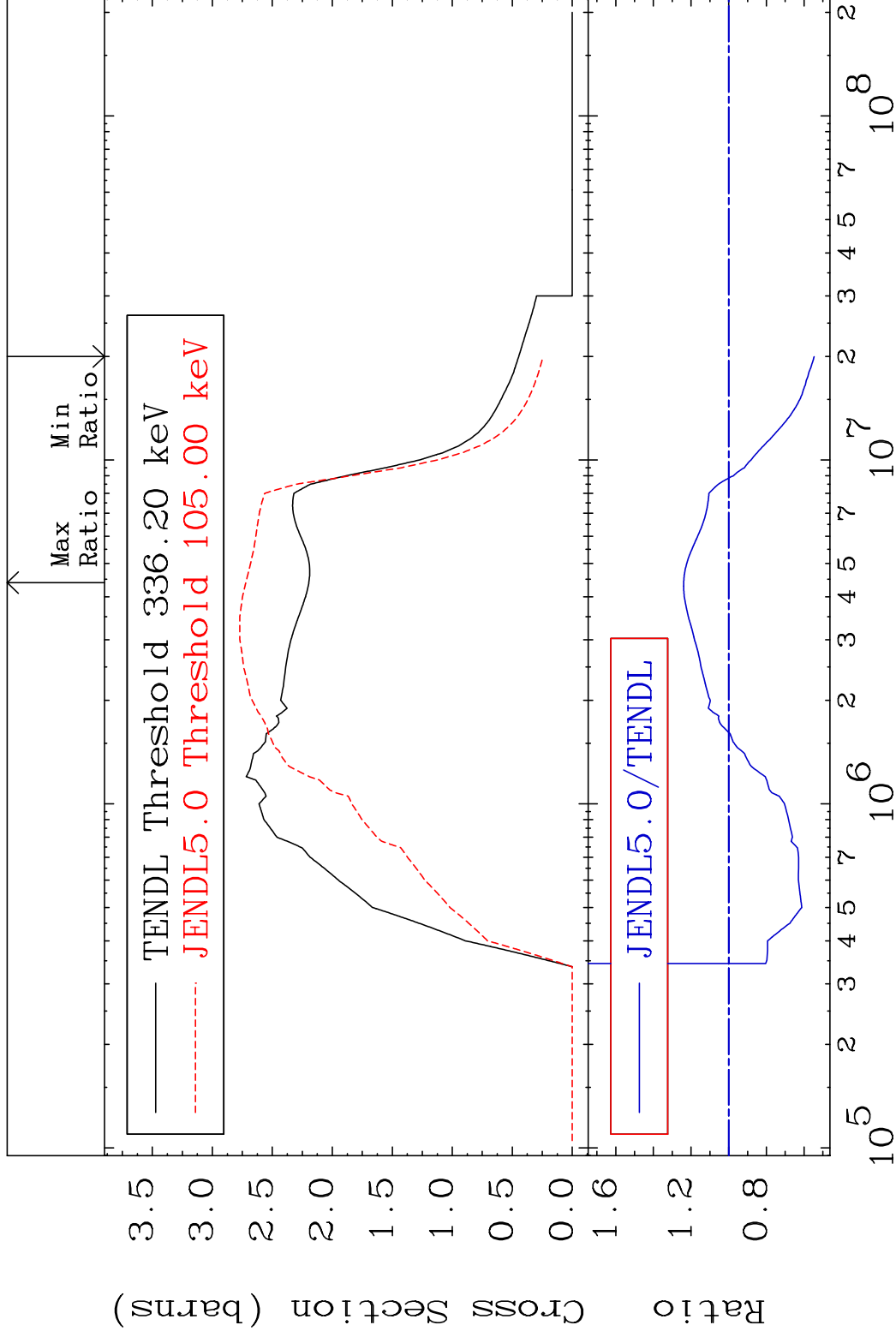
62-Sm-150

MAT 6243

Inelastic

62-Sm-150

Cross Section -45.34 To 23.93 %



3

Incident Energy (eV)

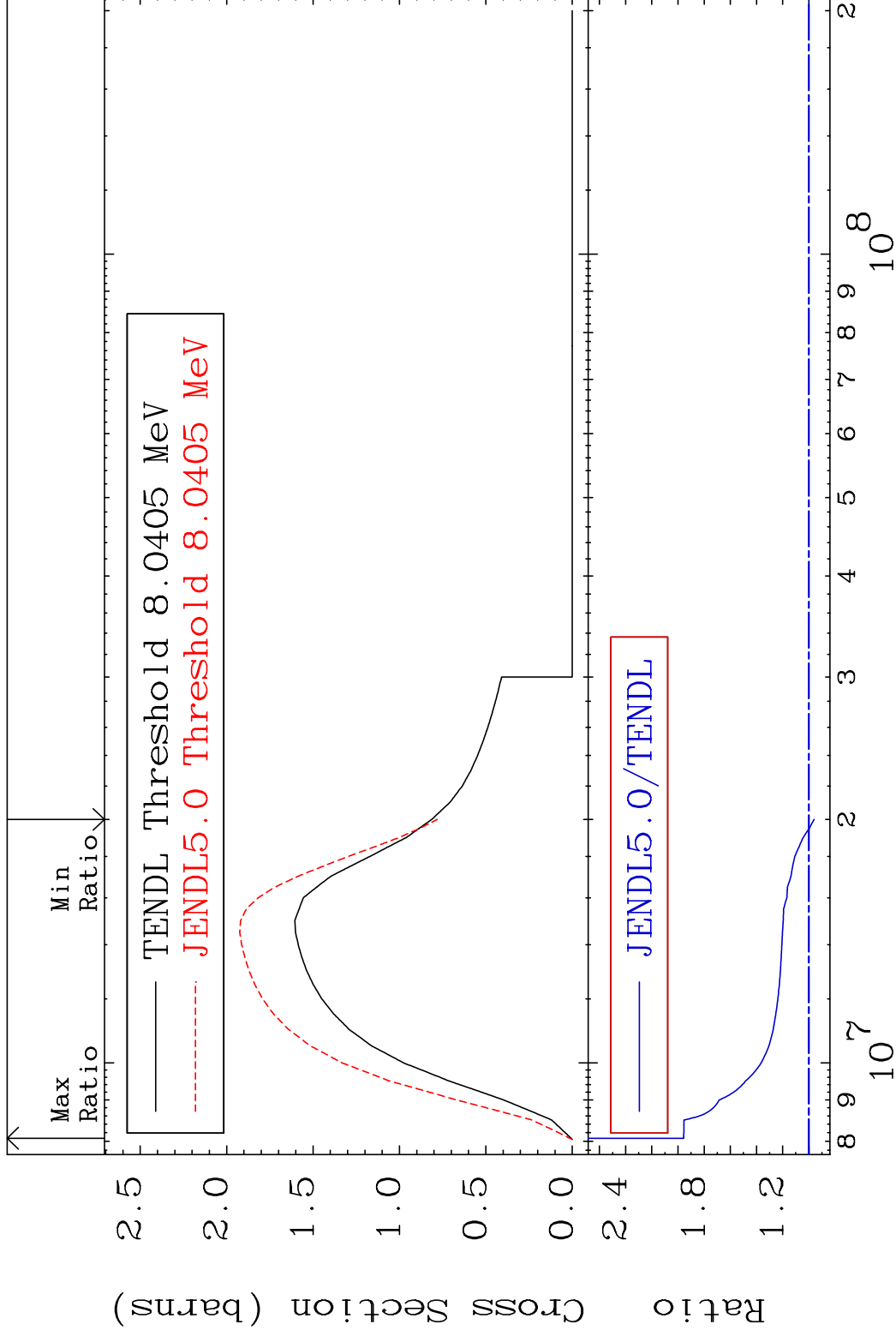
62-Sm-150

MAT 6243

(n,2n)

62-Sm-150

Cross Section -4.028 To 95.66 %



4

Incident Energy (eV)

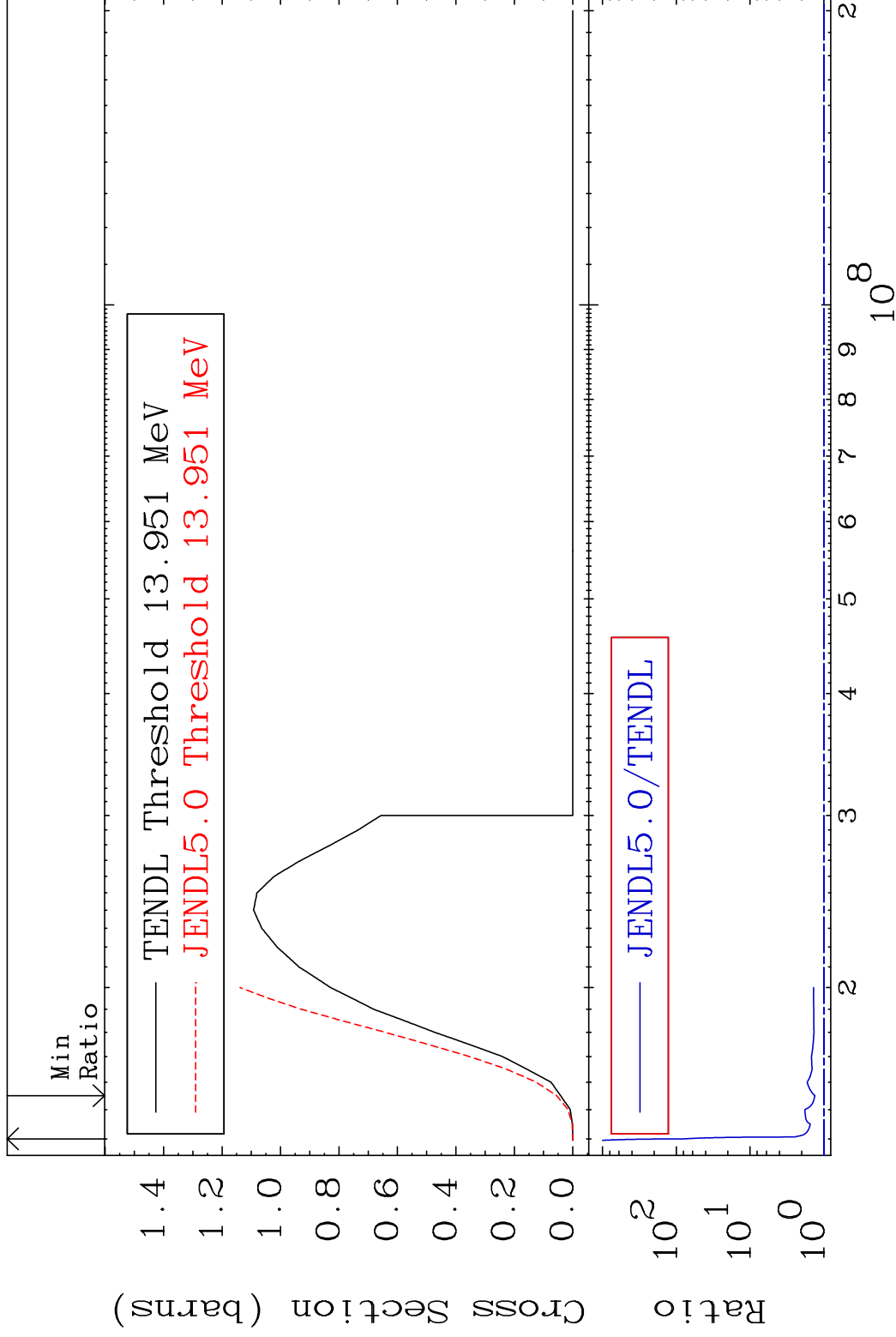
62-Sm-150

MAT 6243

(n,3n)

62-Sm-150

Cross Section 32.01 To 7687. %



5

Incident Energy (eV)

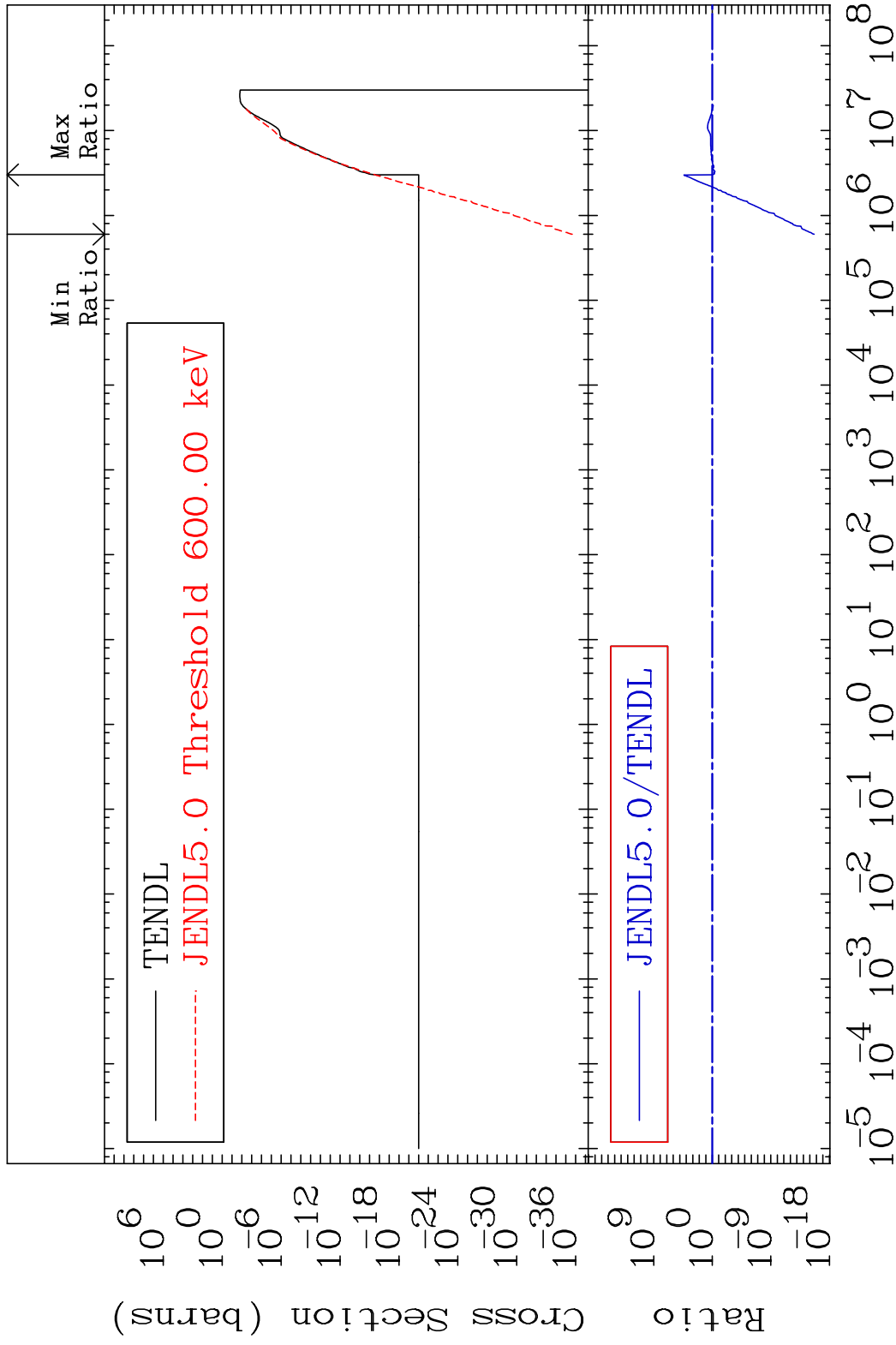
62-Sm-150

MAT 6243

(n, n') α

62-Sm-150

Cross Section -100.0 To 9999. %

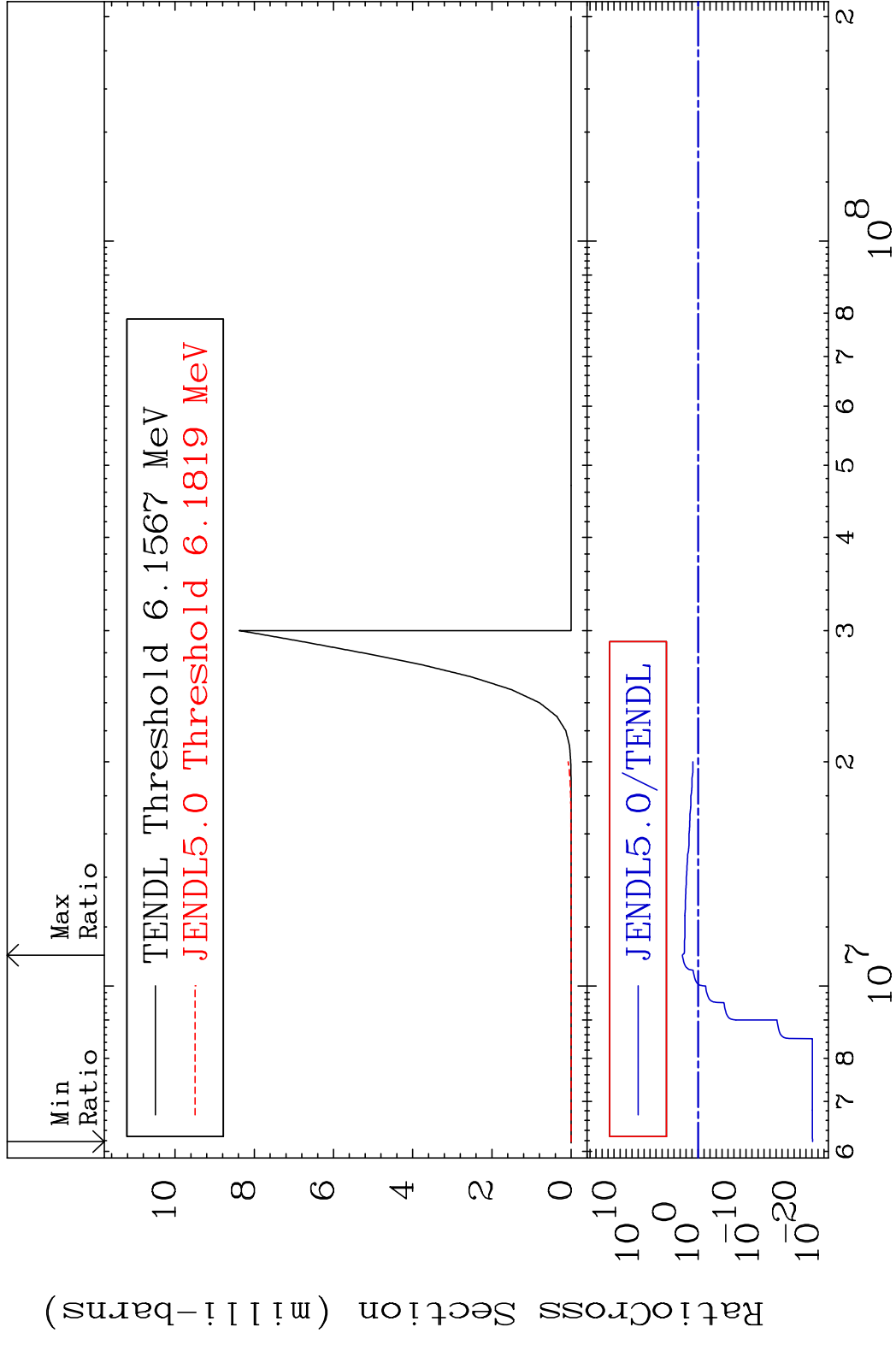


6

Incident Energy (eV)

62-Sm-150

MAT 6243 (n,2n) α 62-Sm-150
 Cross Section -100.0 To 9999. %

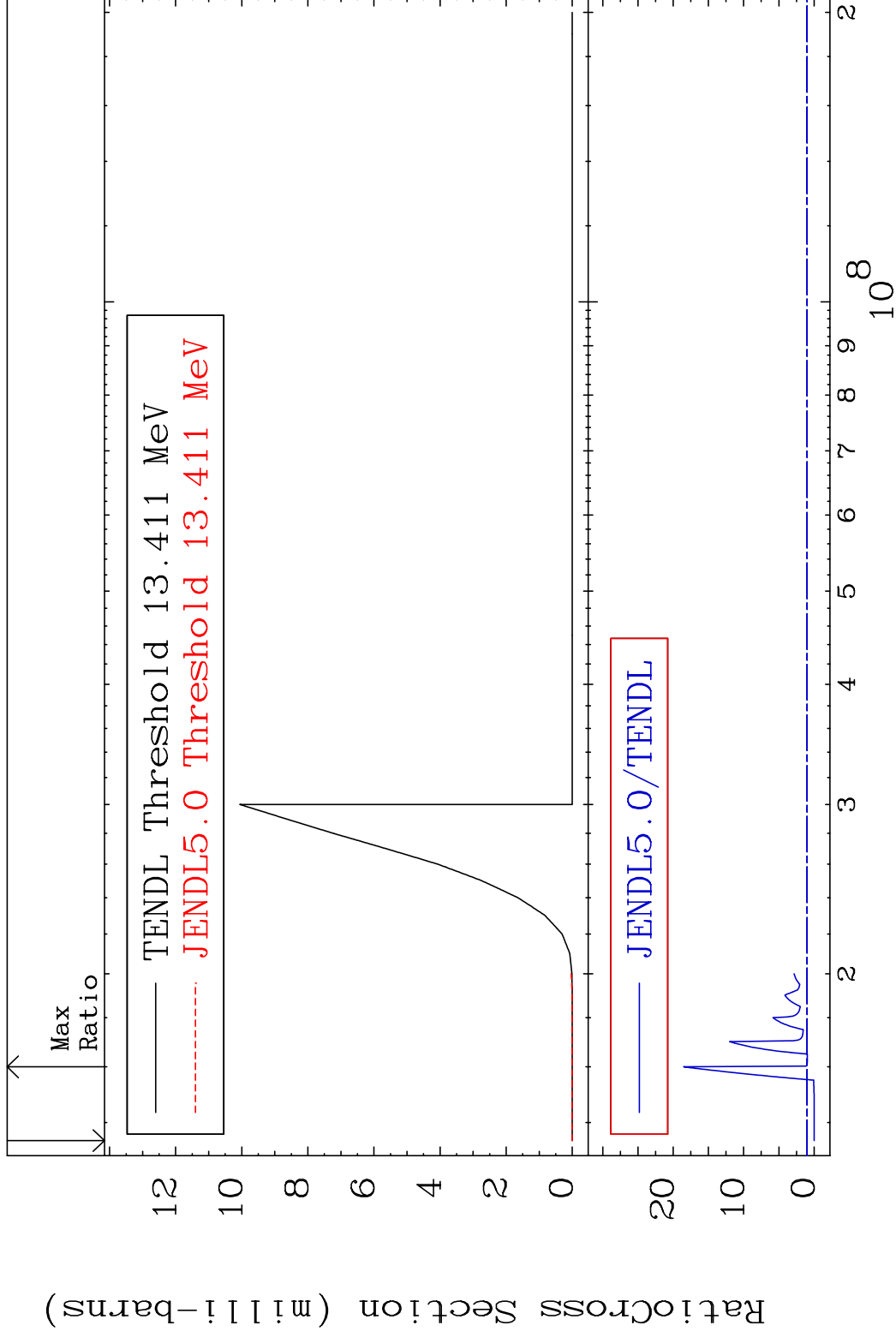


MAT 6243

(n, n') d

62-Sm-150

Cross Section -100.0 To 1751. %



9

Incident Energy (eV)

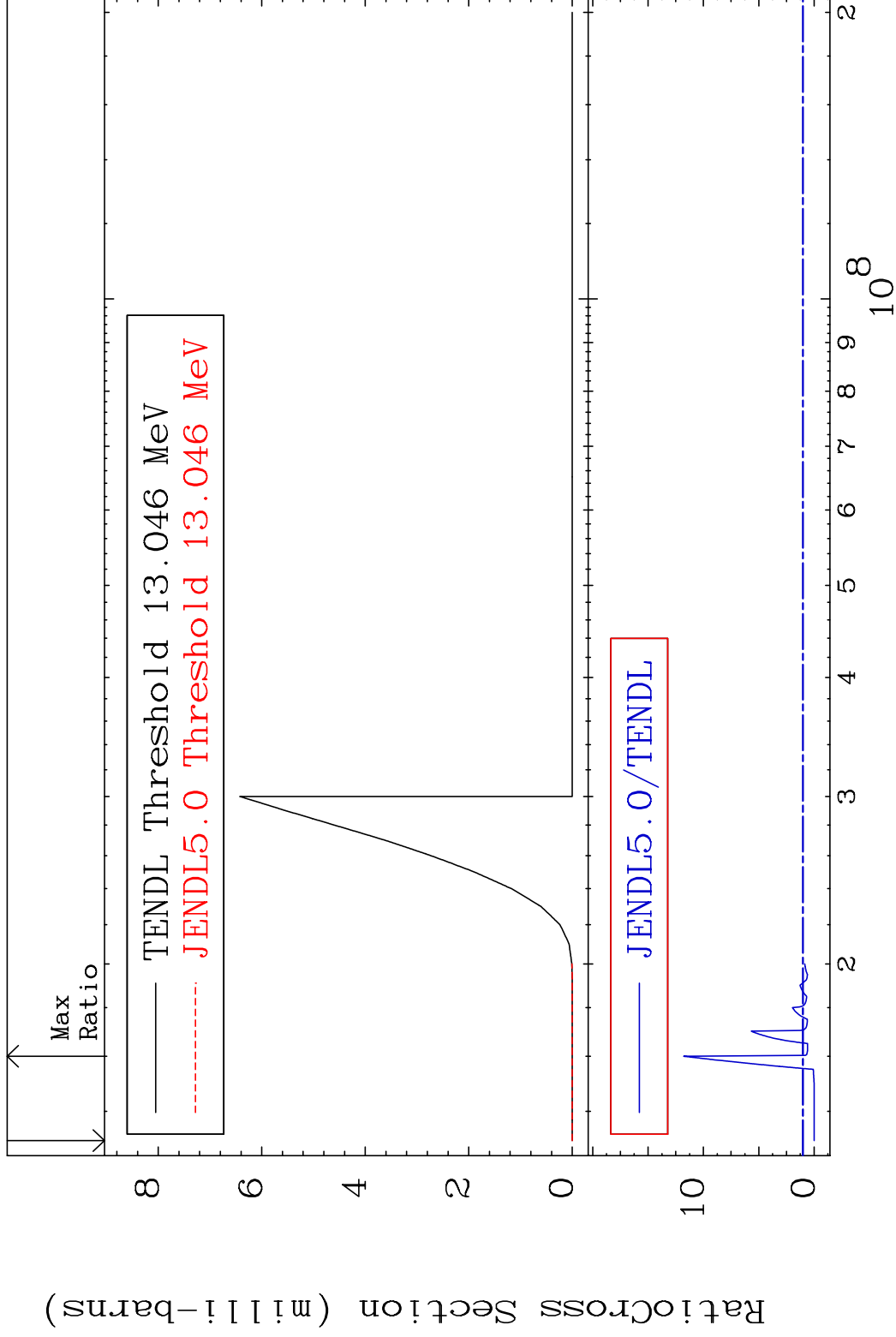
62-Sm-150

MAT 6243

(n, n') t

62-Sm-150

Cross Section -100.0 To 1078. %

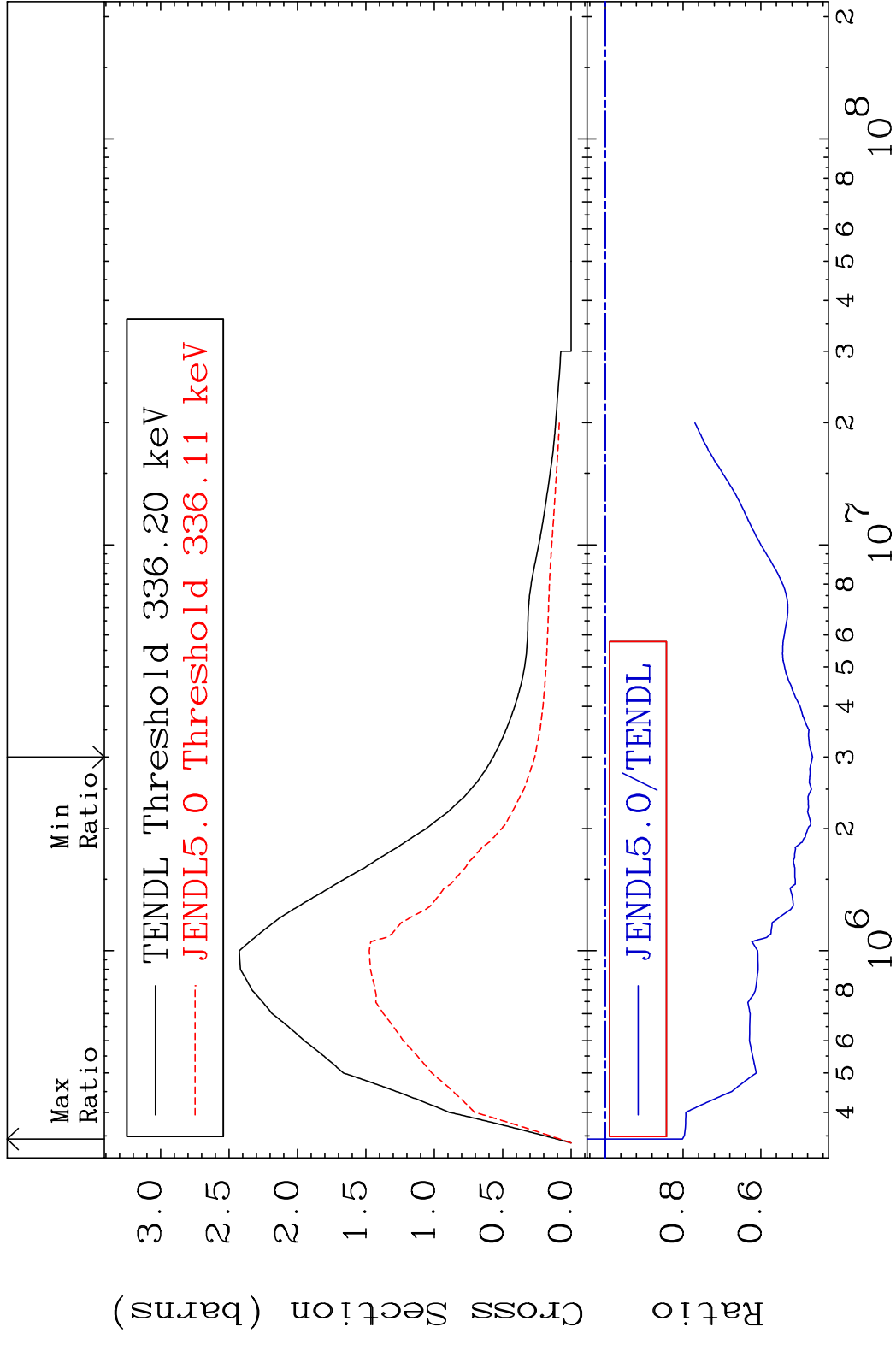


10

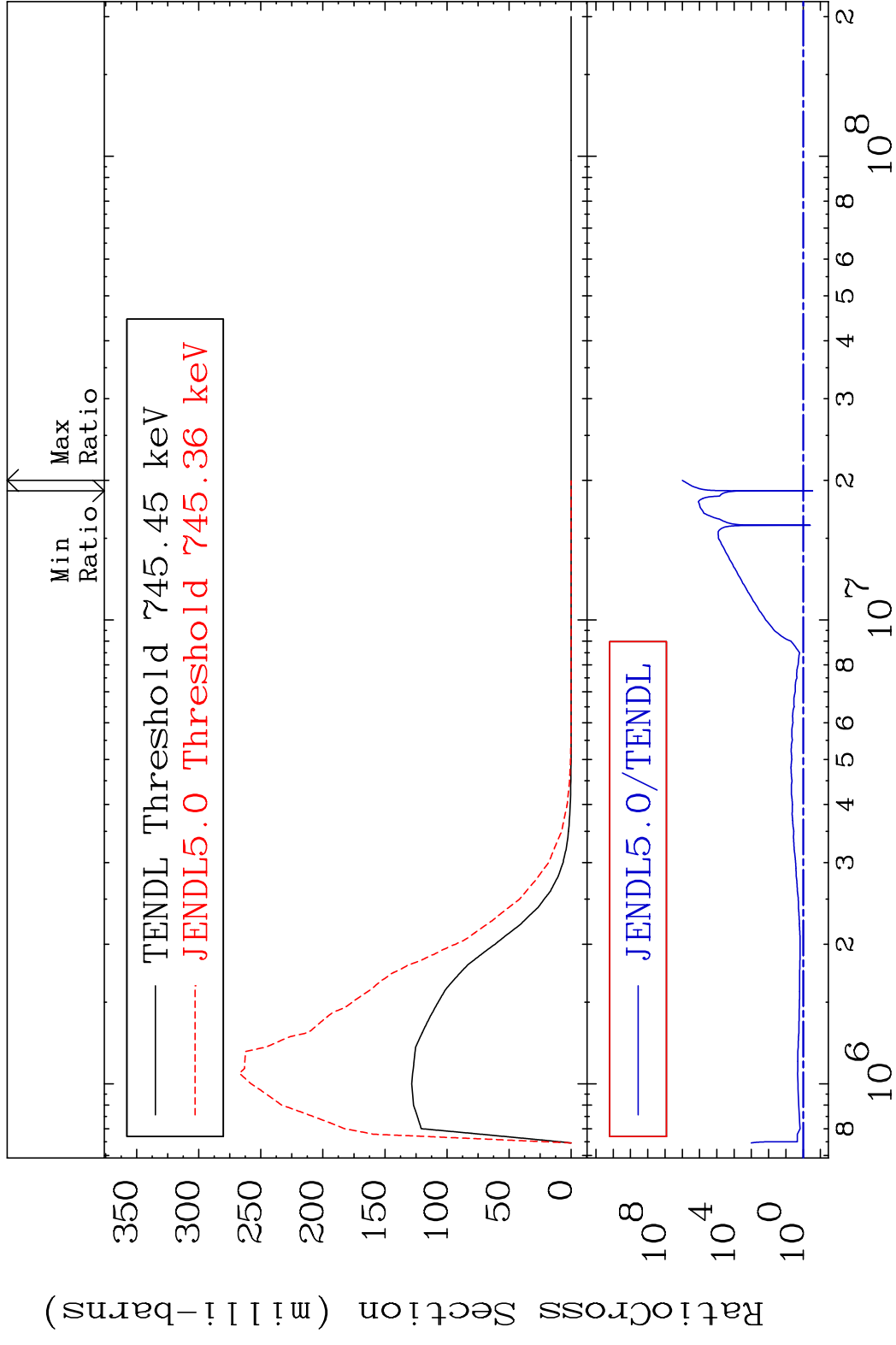
Incident Energy (eV)

62-Sm-150

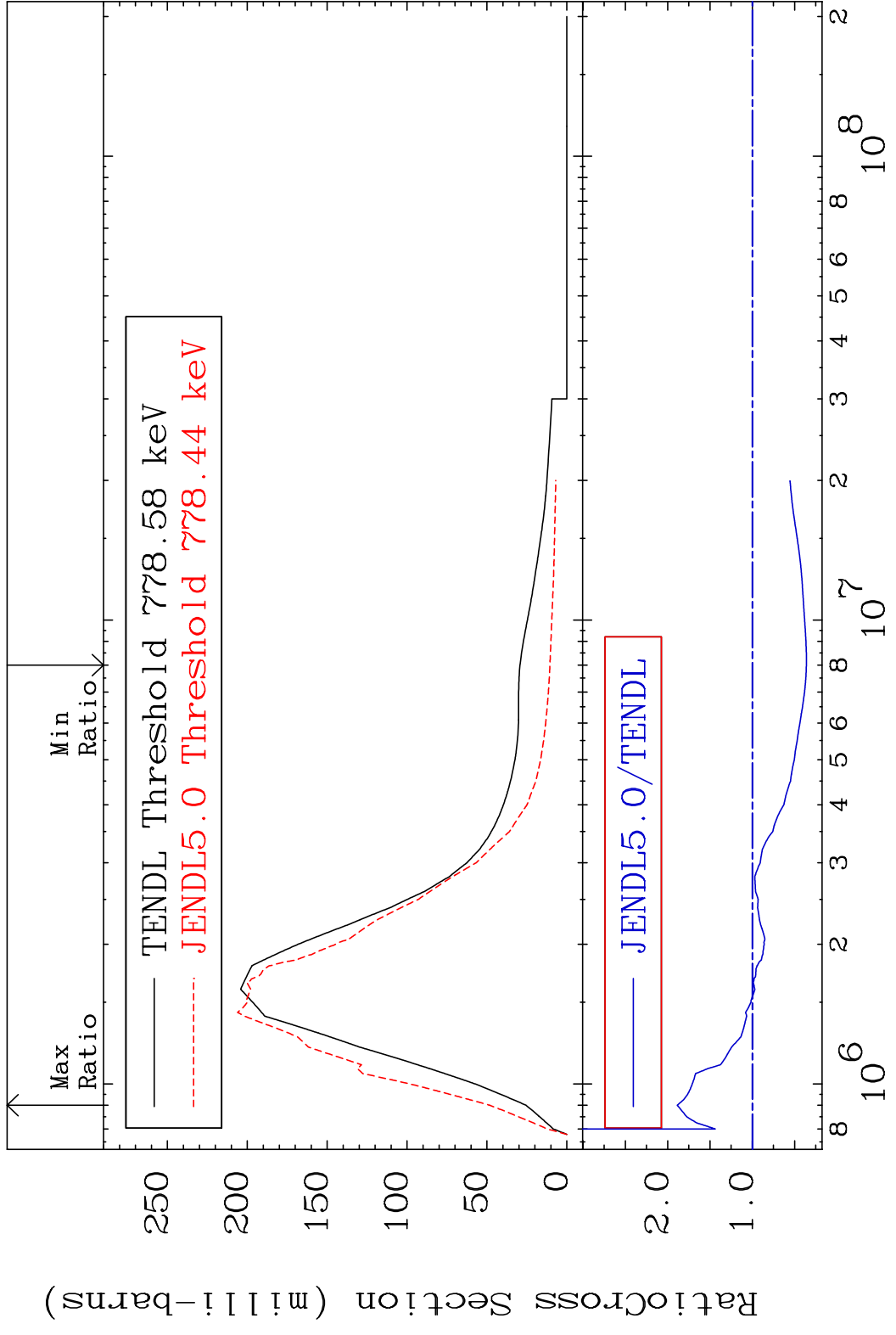
MAT 6243 MT= 51 (n,n') Level 62-Sm-150
 Cross Section -53.28 To -19.81%



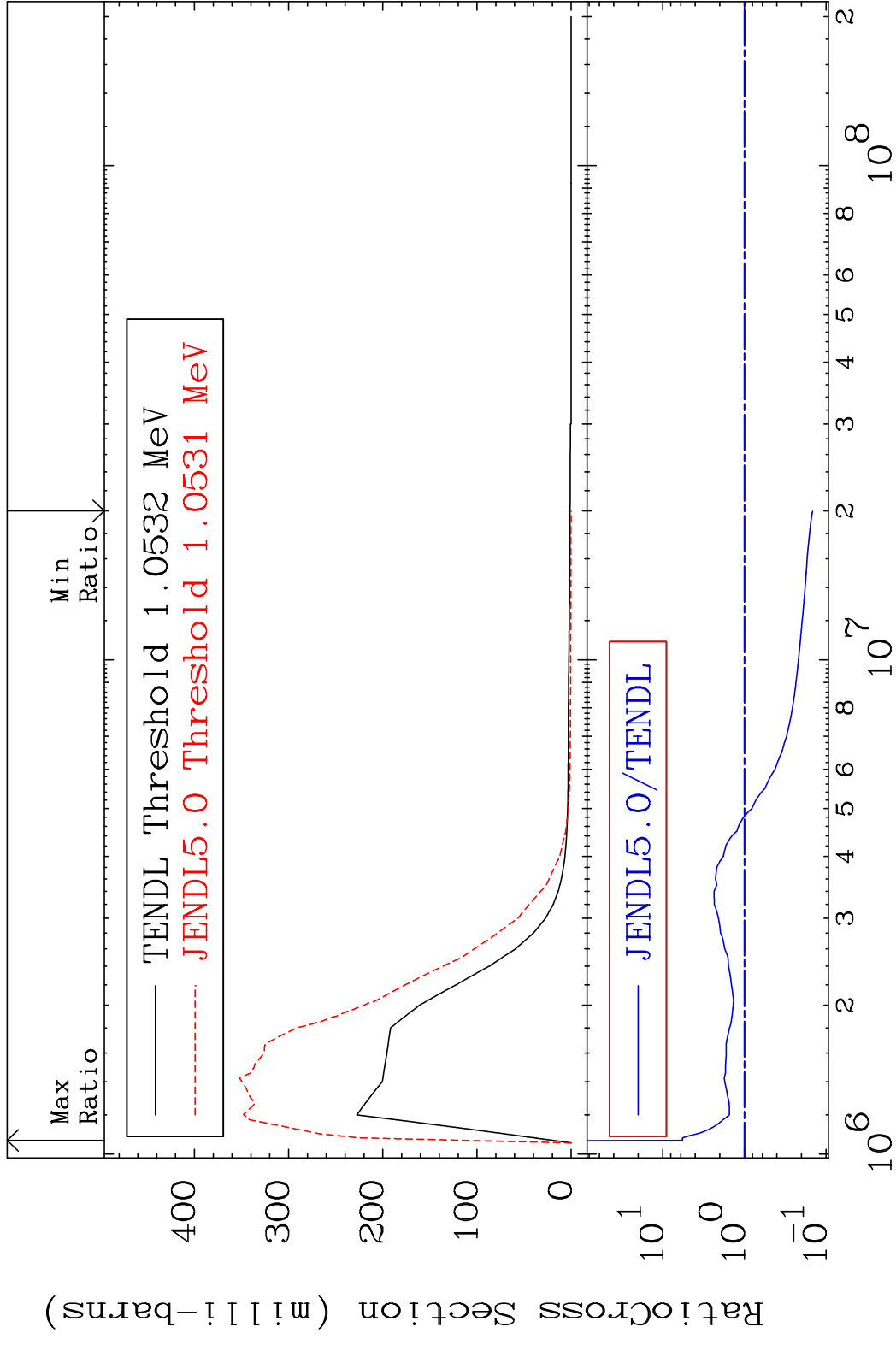
MAT 6243 MT= 52 (n, n') Level 62-Sm-150
 Cross Section -71.31 To 9999. %



MAT 6243 MT= 53 (n, n') Level 62-Sm-150
 Cross Section -63.87 To 88.80 %

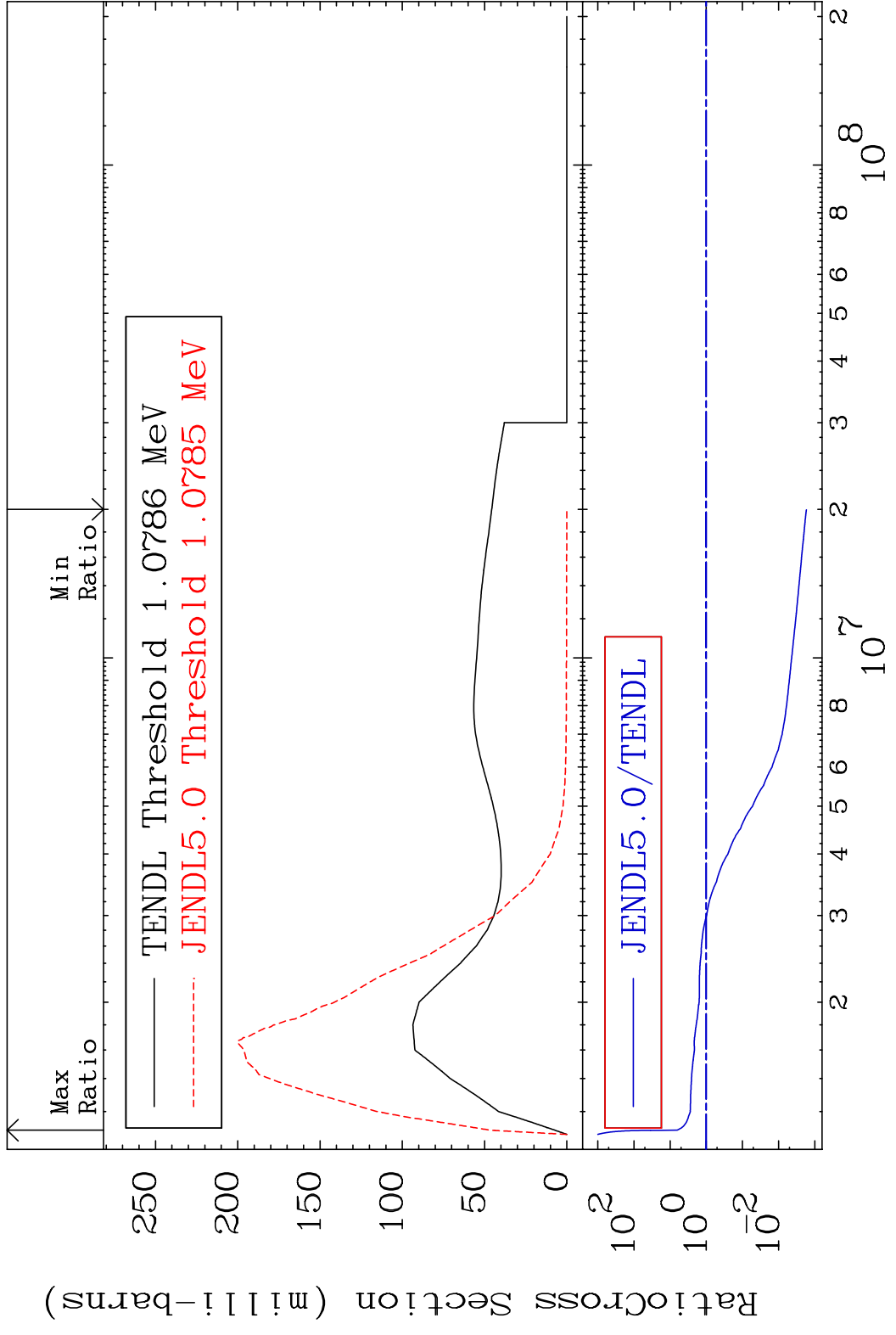


MAT 6243 MT= 54 (n, n') Level 62-Sm-150
 Cross Section -85.40 To 475.9 %

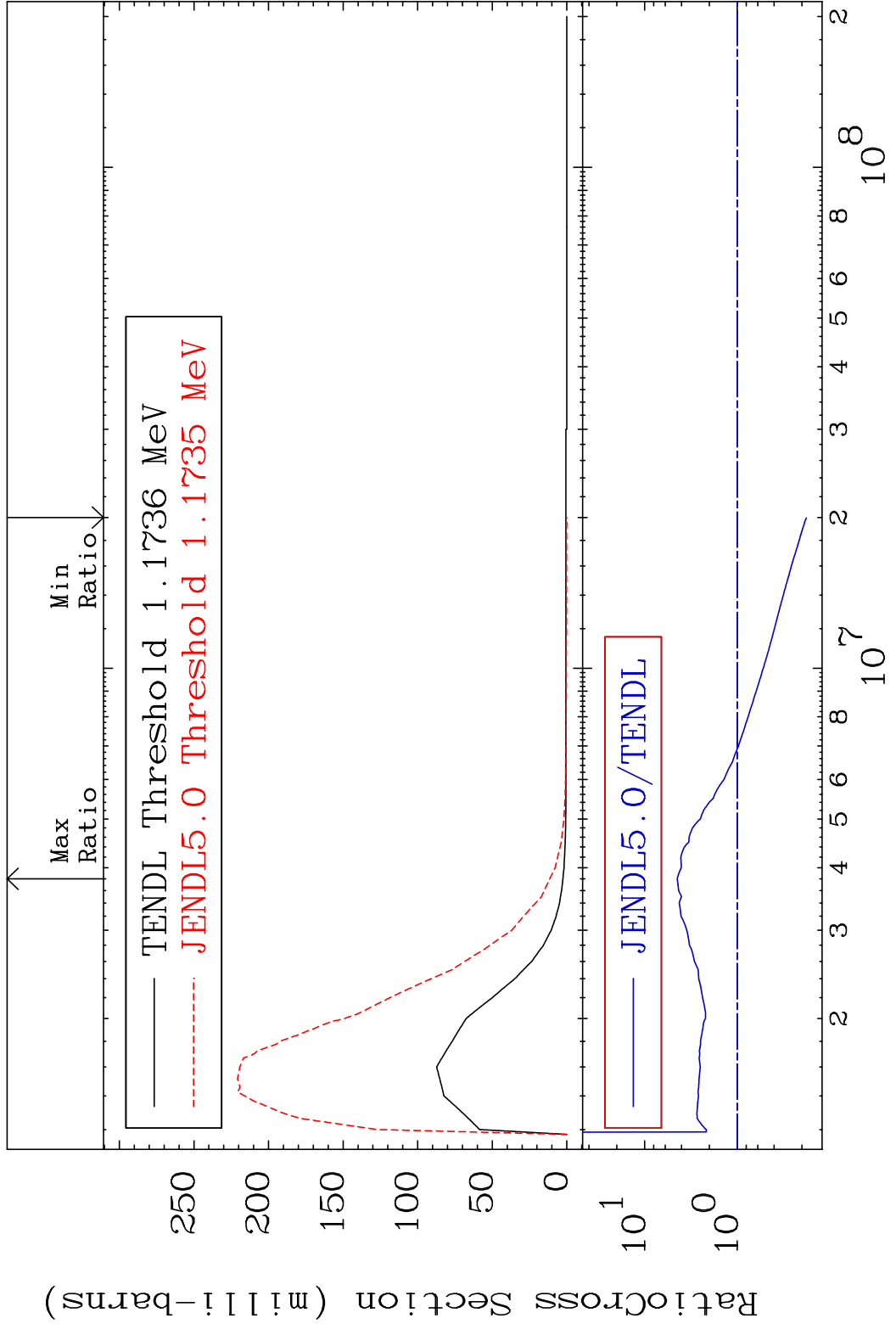


14 Incident Energy (eV) 62-Sm-150

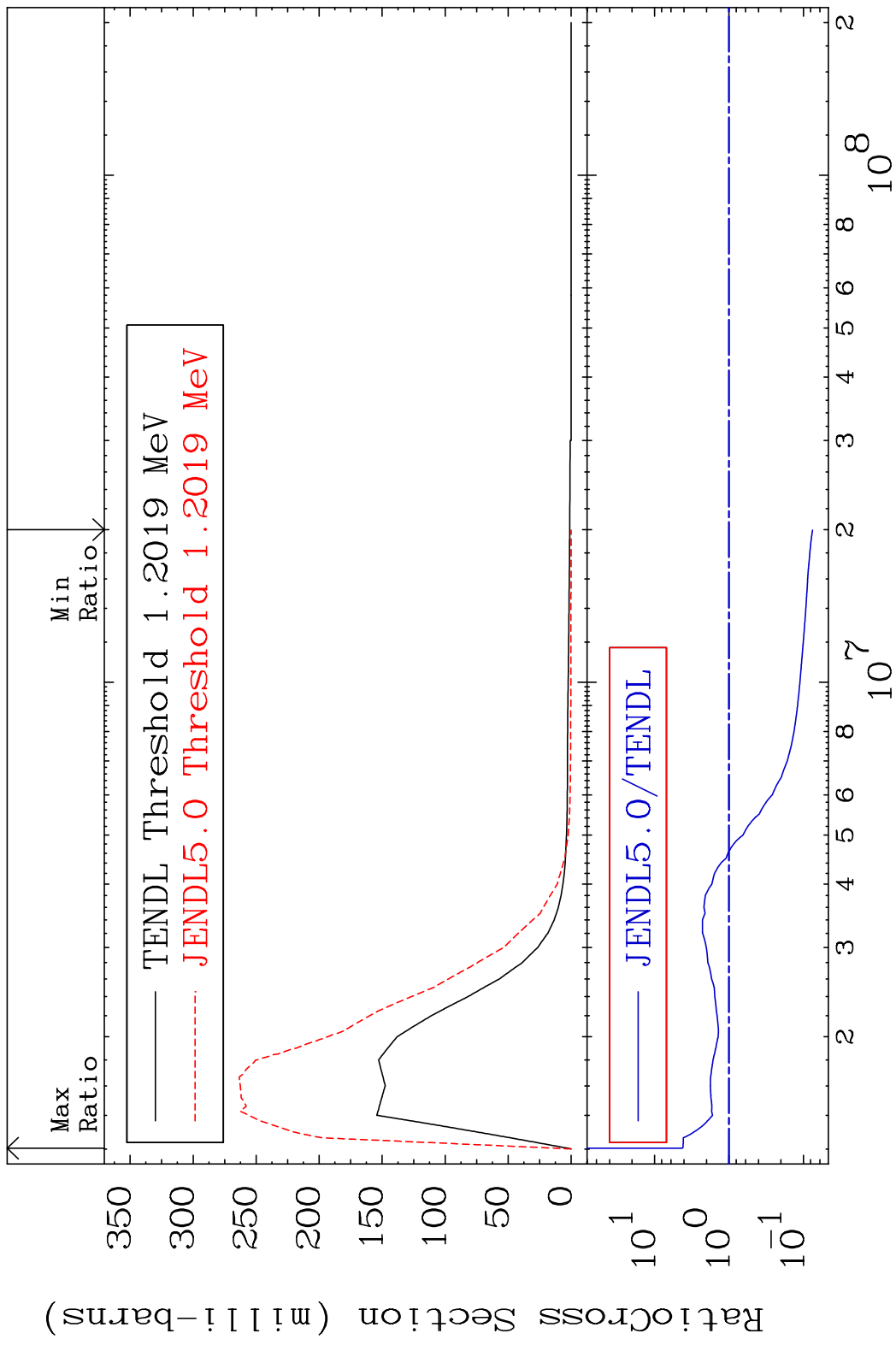
MAT 6243 MT= 55 (n, n') Level 62-Sm-150
 Cross Section -99.83 To 537.0 %



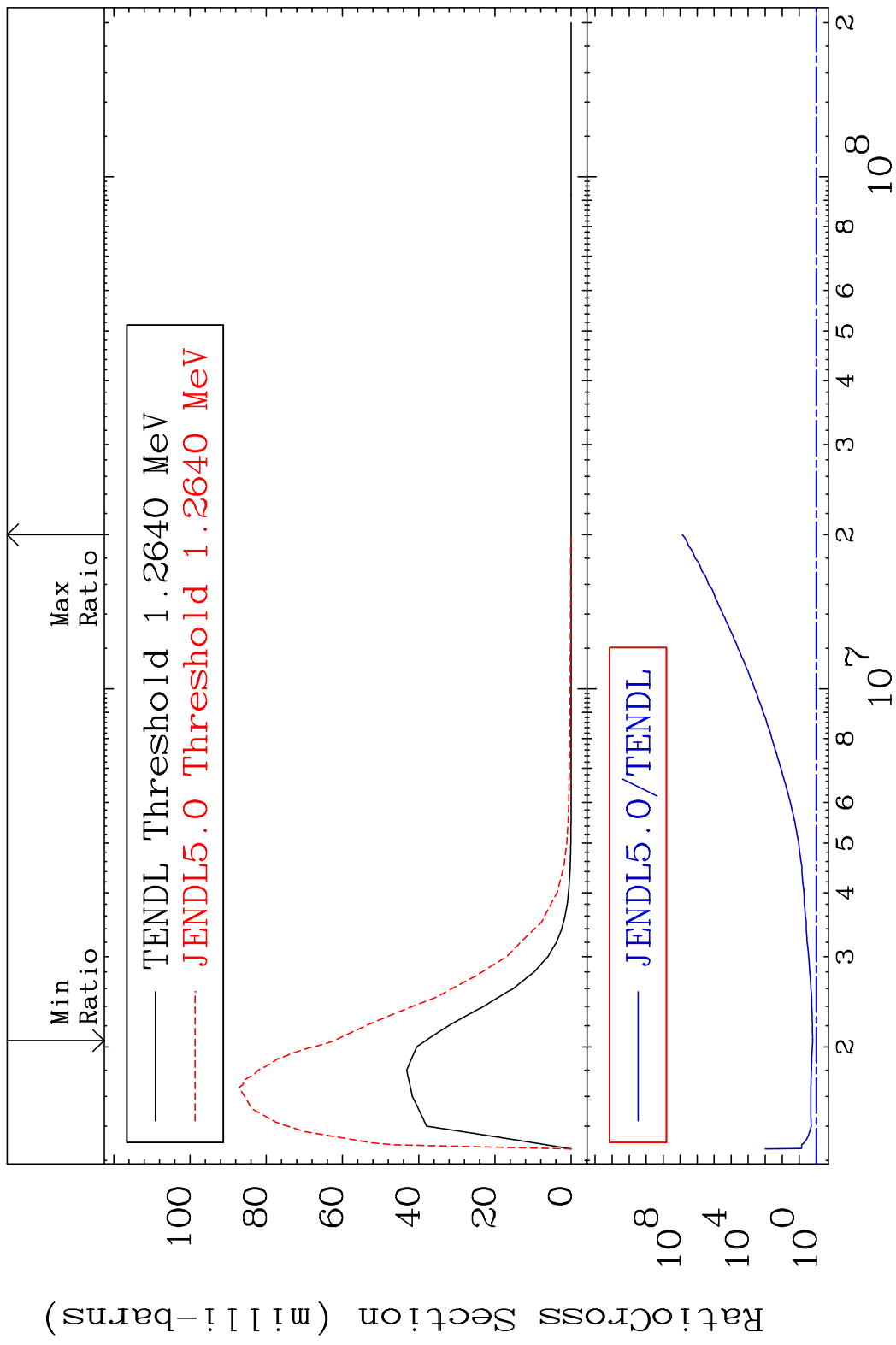
MAT 6243 MT= 56 (n, n') Level 62-Sm-150
 Cross Section -82.07 To 346.1 %



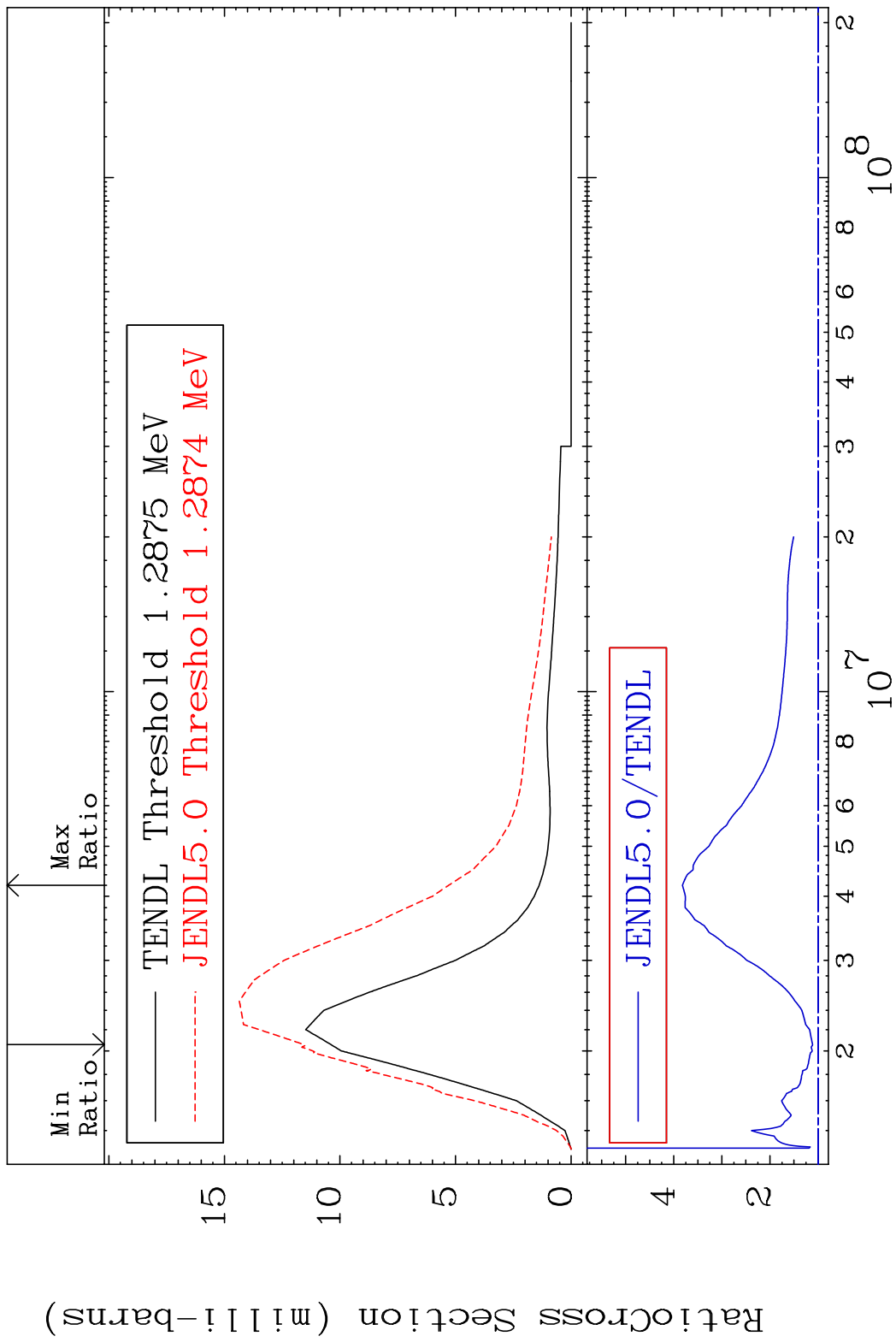
MAT 6243 MT= 57 (n, n') Level 62-Sm-150
 Cross Section -92.46 To 322.1 %



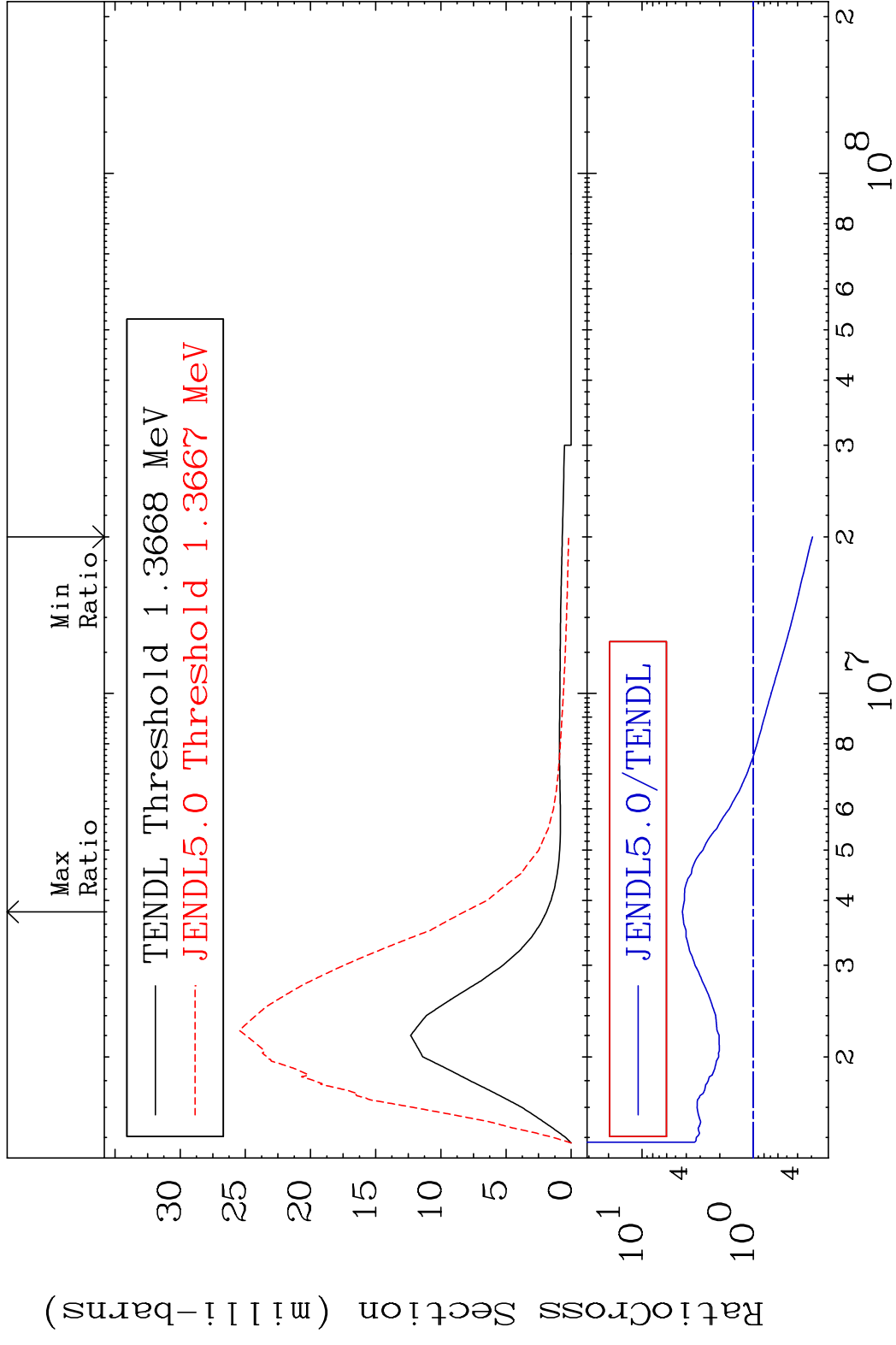
MAT 6243 MT= 58 (n, n') Level 62-Sm-150
 Cross Section 63.00 To 9999. %



MAT 6243 MT= 59 (n, n') Level 62-Sm-150
 Cross Section 11.31 To 282.1 %

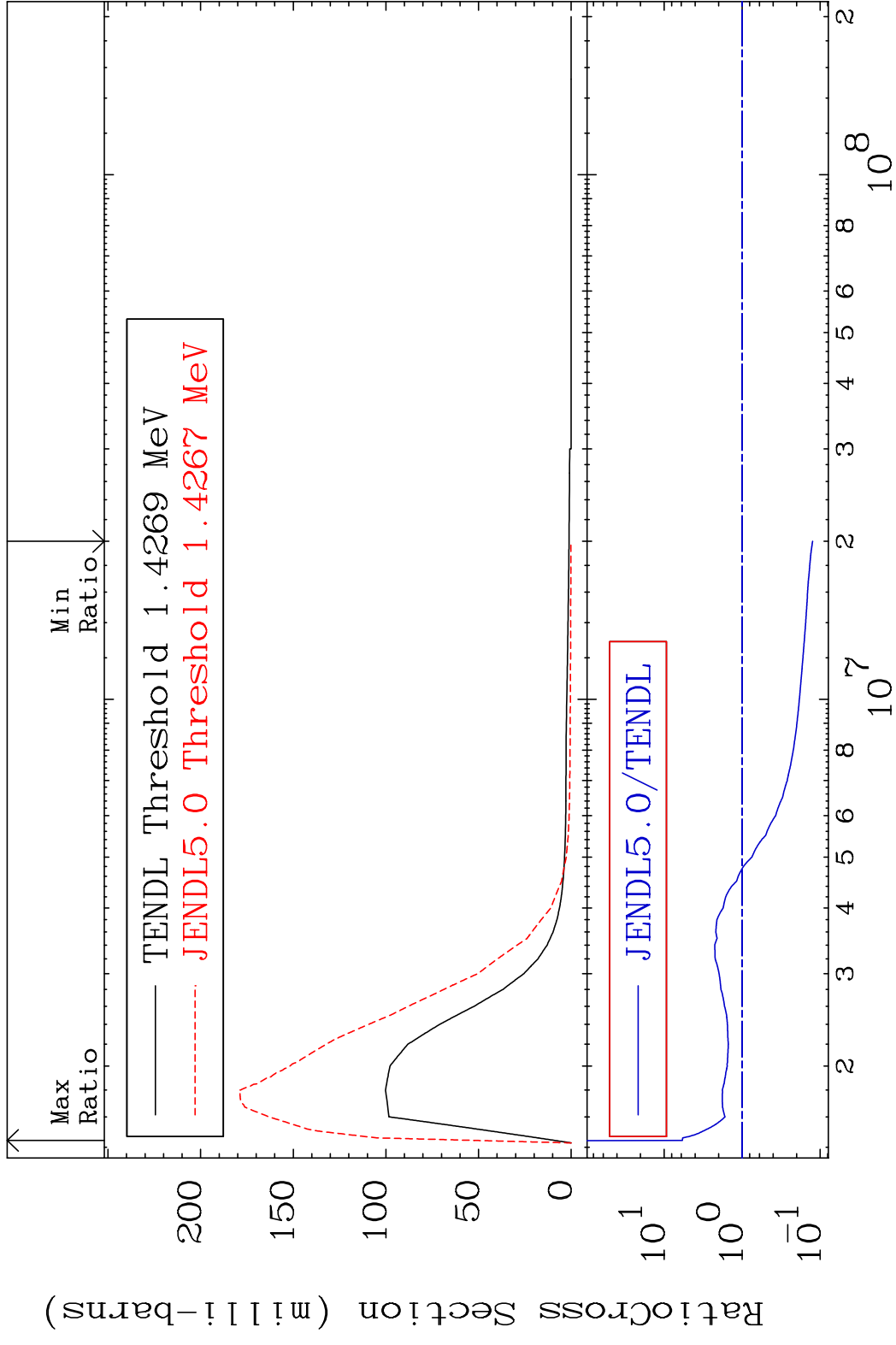


MAT 6243 MT= 60 (n, n') Level 62-Sm-150
 Cross Section -70.71 To 333.8 %

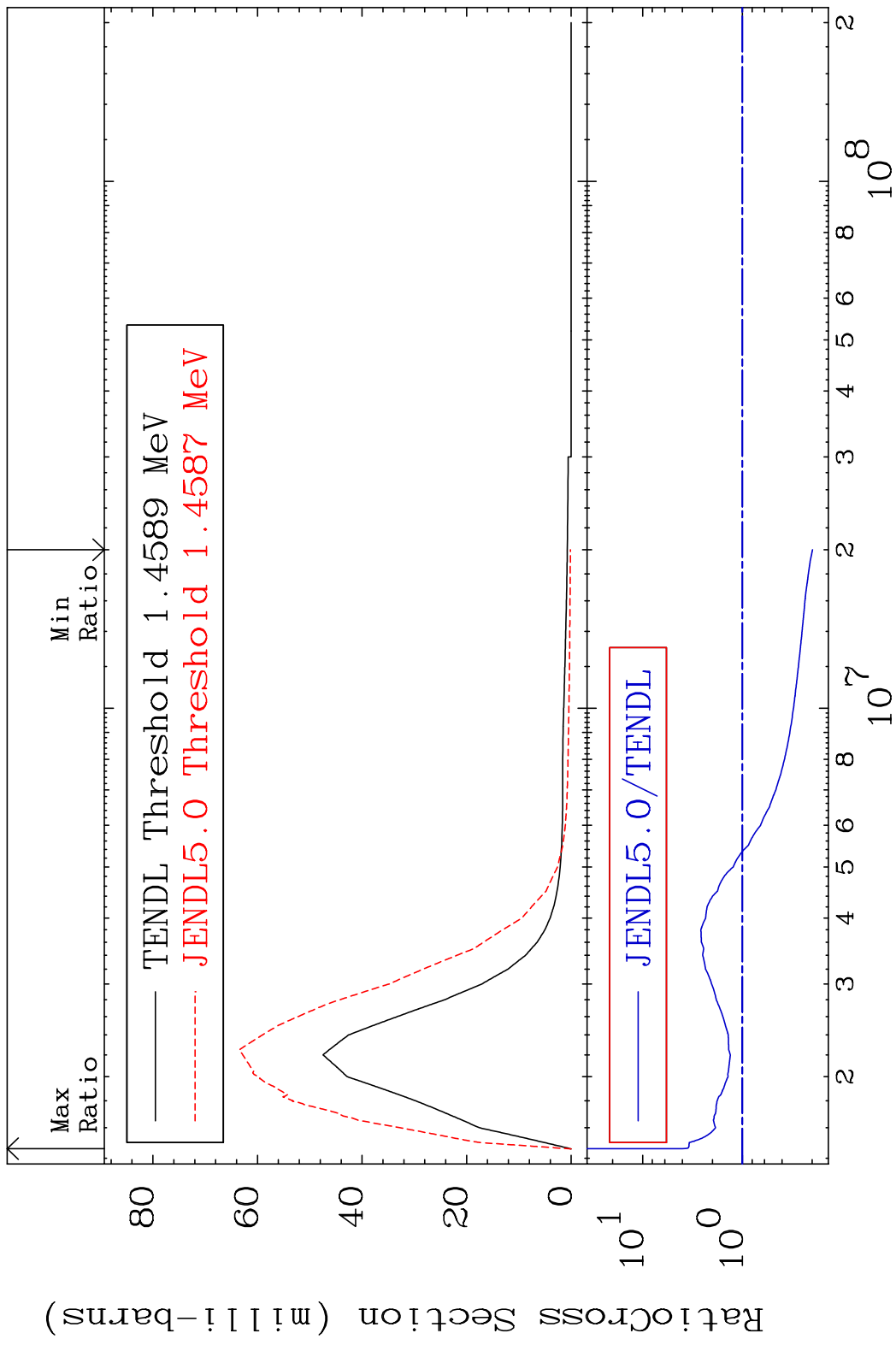


20 Incident Energy (eV) 62-Sm-150

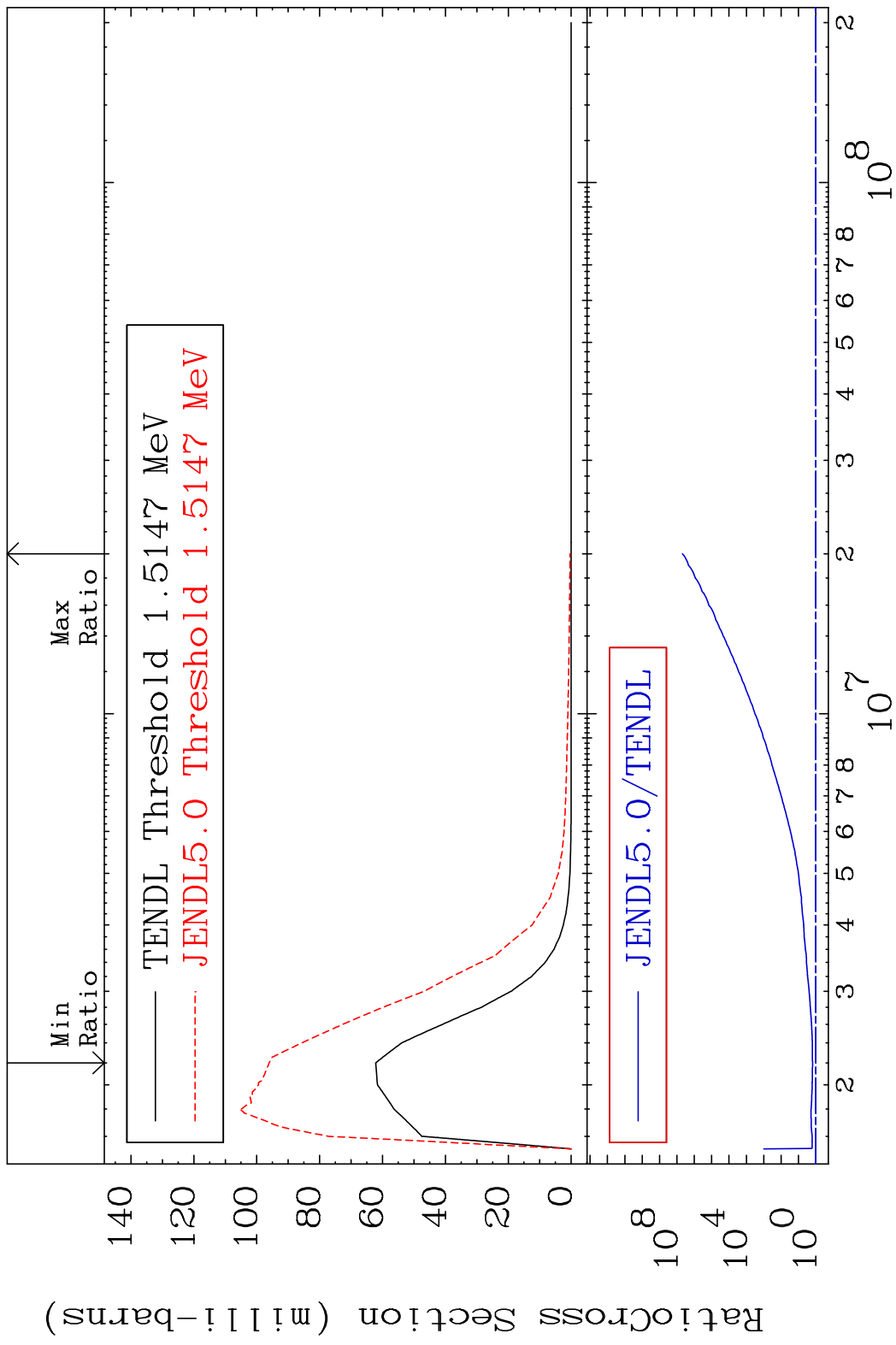
MAT 6243 MT= 61 (n, n') Level 62-Sm-150
 Cross Section -87.49 To 482.5 %



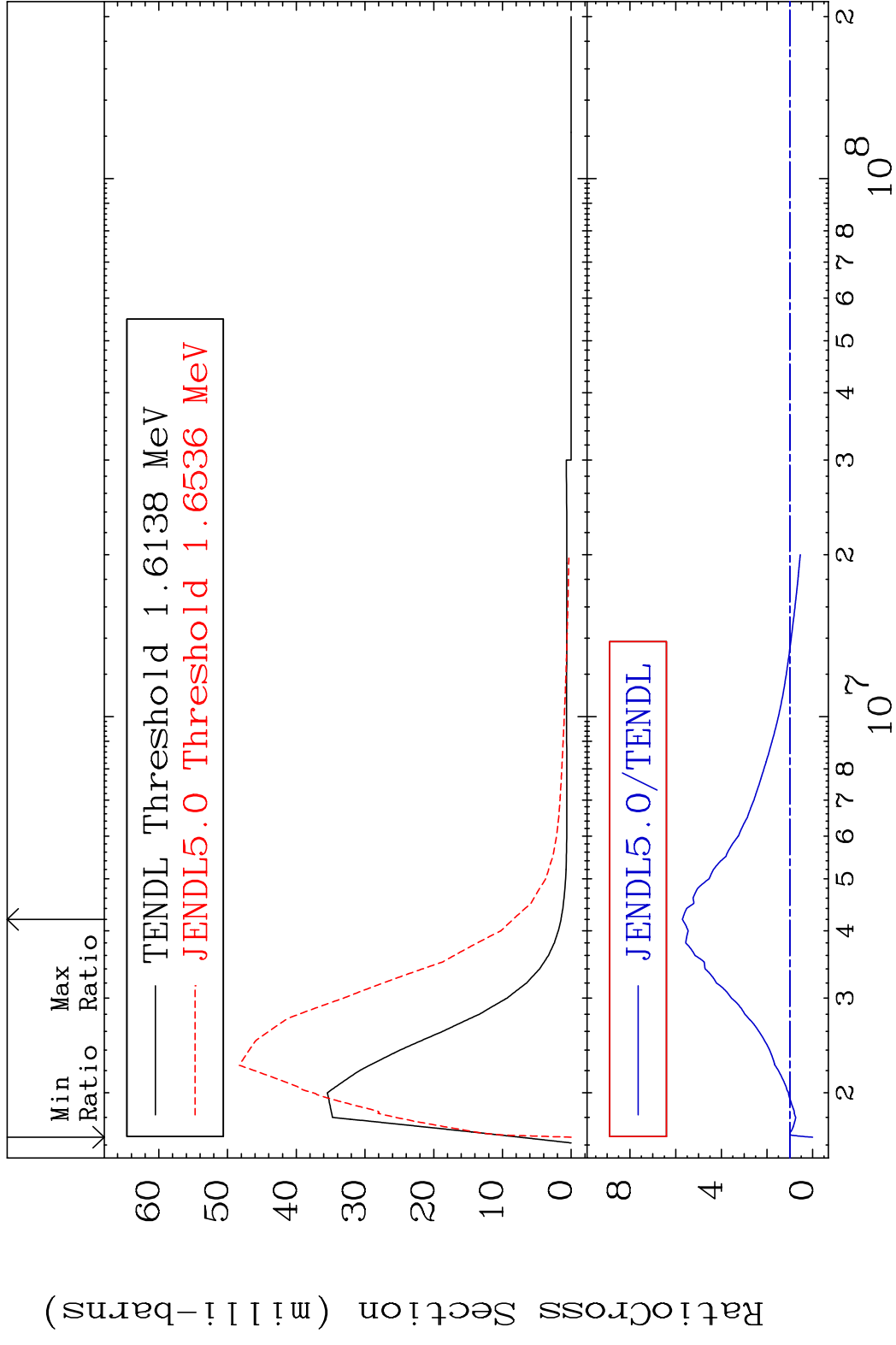
MAT 6243 MT= 62 (n,n') Level 62-Sm-150
 Cross Section -80.17 To 300.0 %



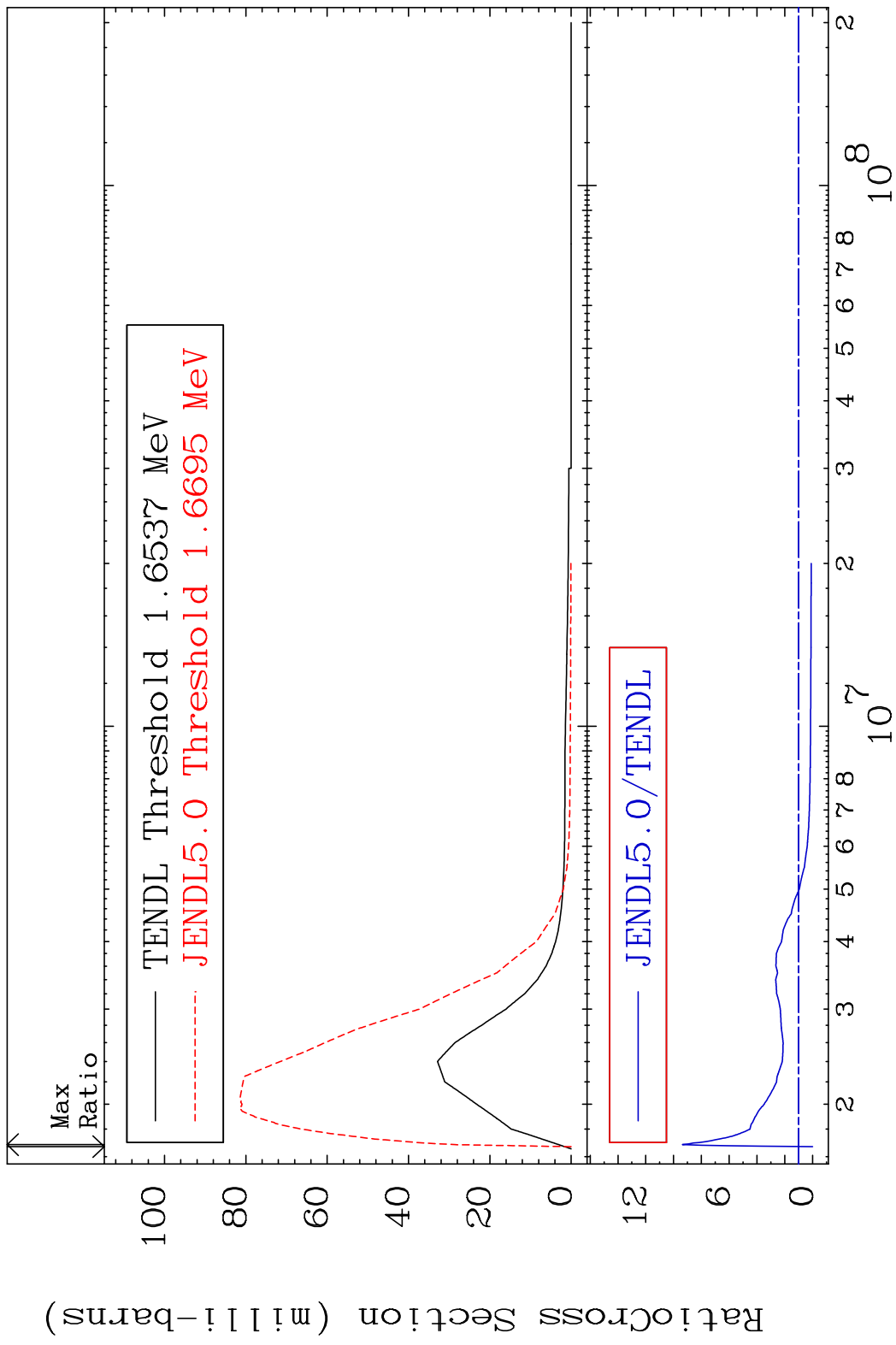
MAT 6243 MT= 63 (n, n') Level 62-Sm-150
 Cross Section 54.50 To 9999. %



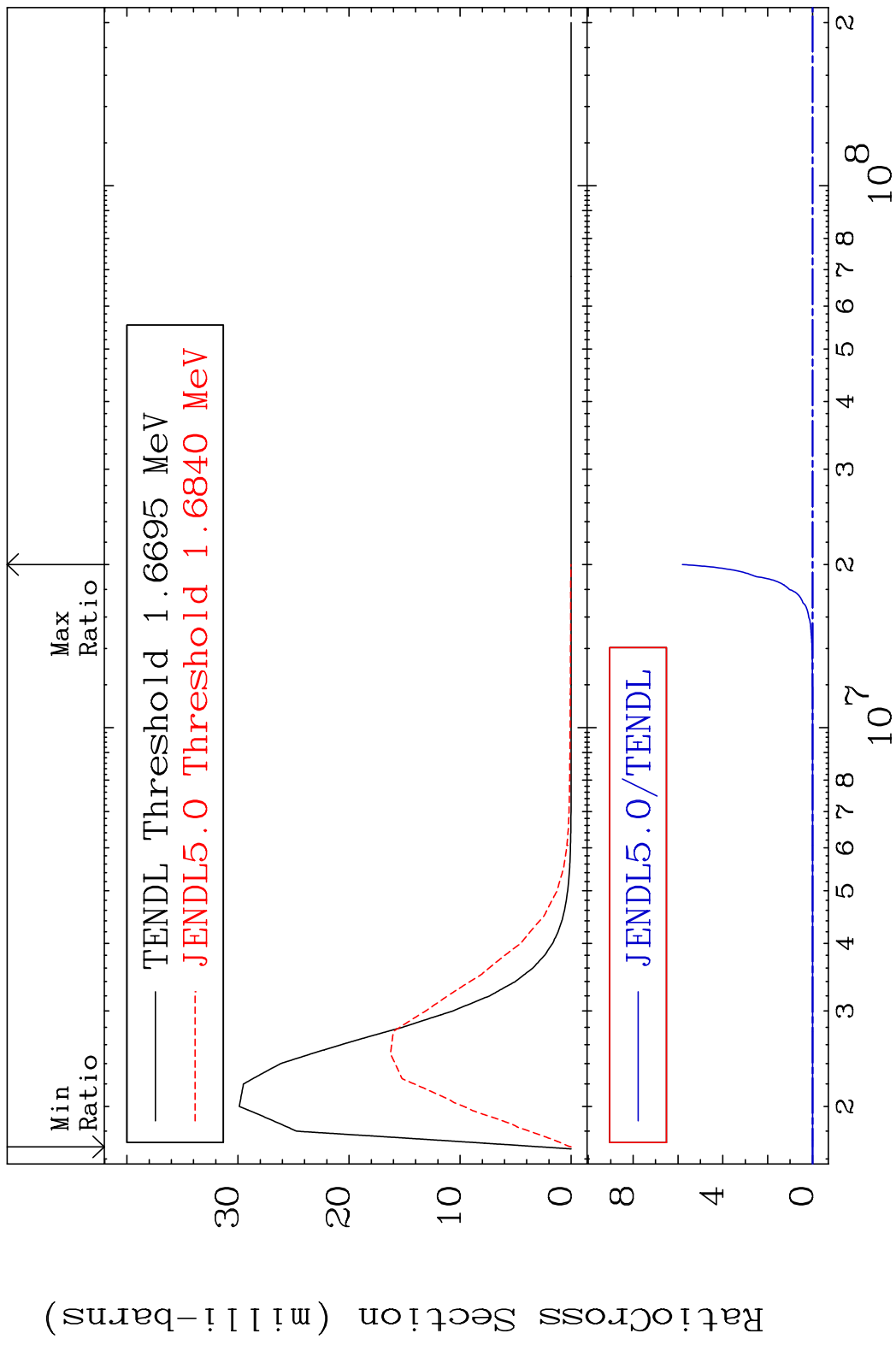
MAT 6243 MT= 64 (n,n') Level 62-Sm-150
 Cross Section -100.0 To 470.7 %



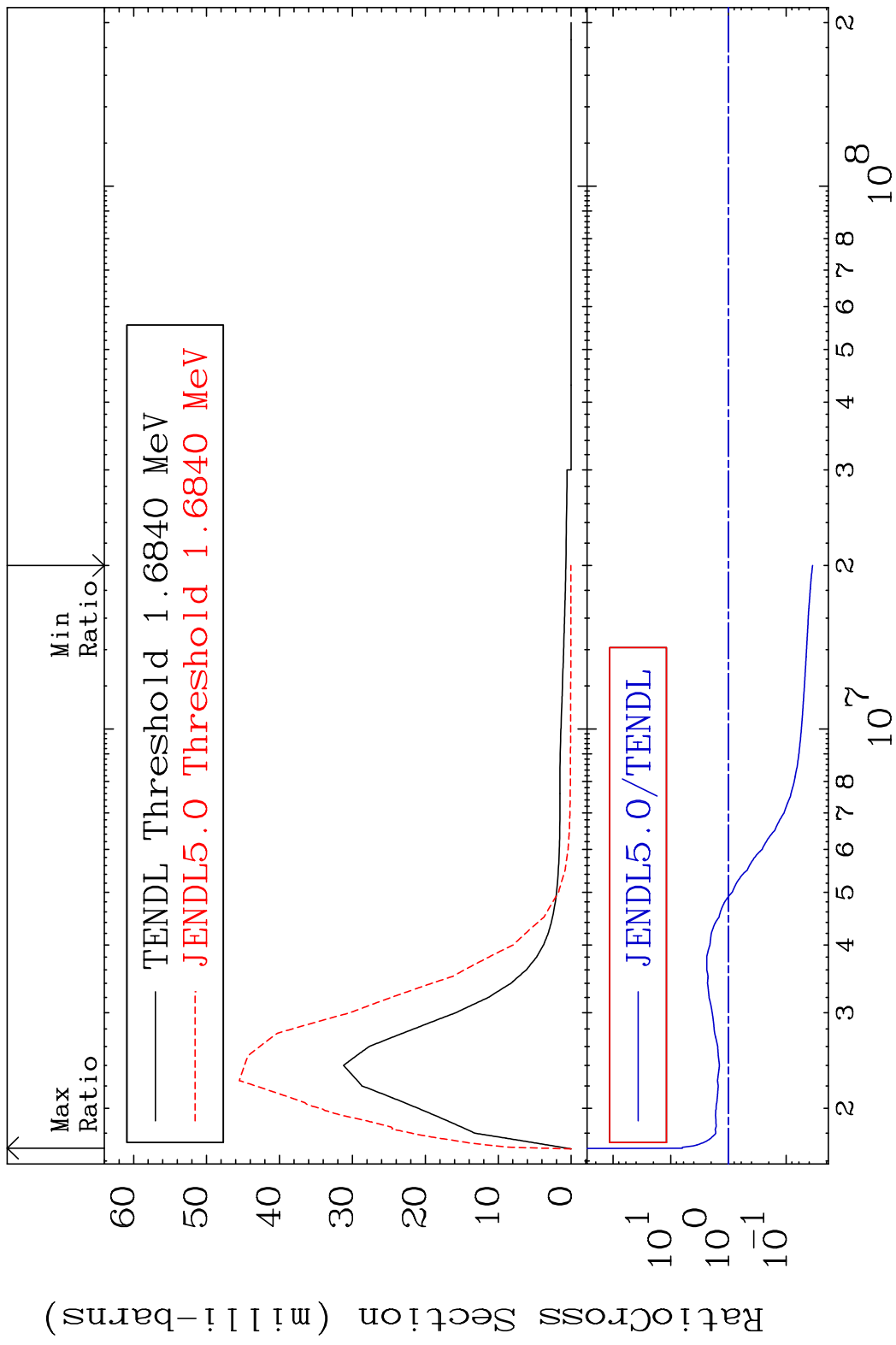
MAT 6243 MT= 65 (n,n') Level 62-Sm-150
 Cross Section -100.0 To 836.8 %



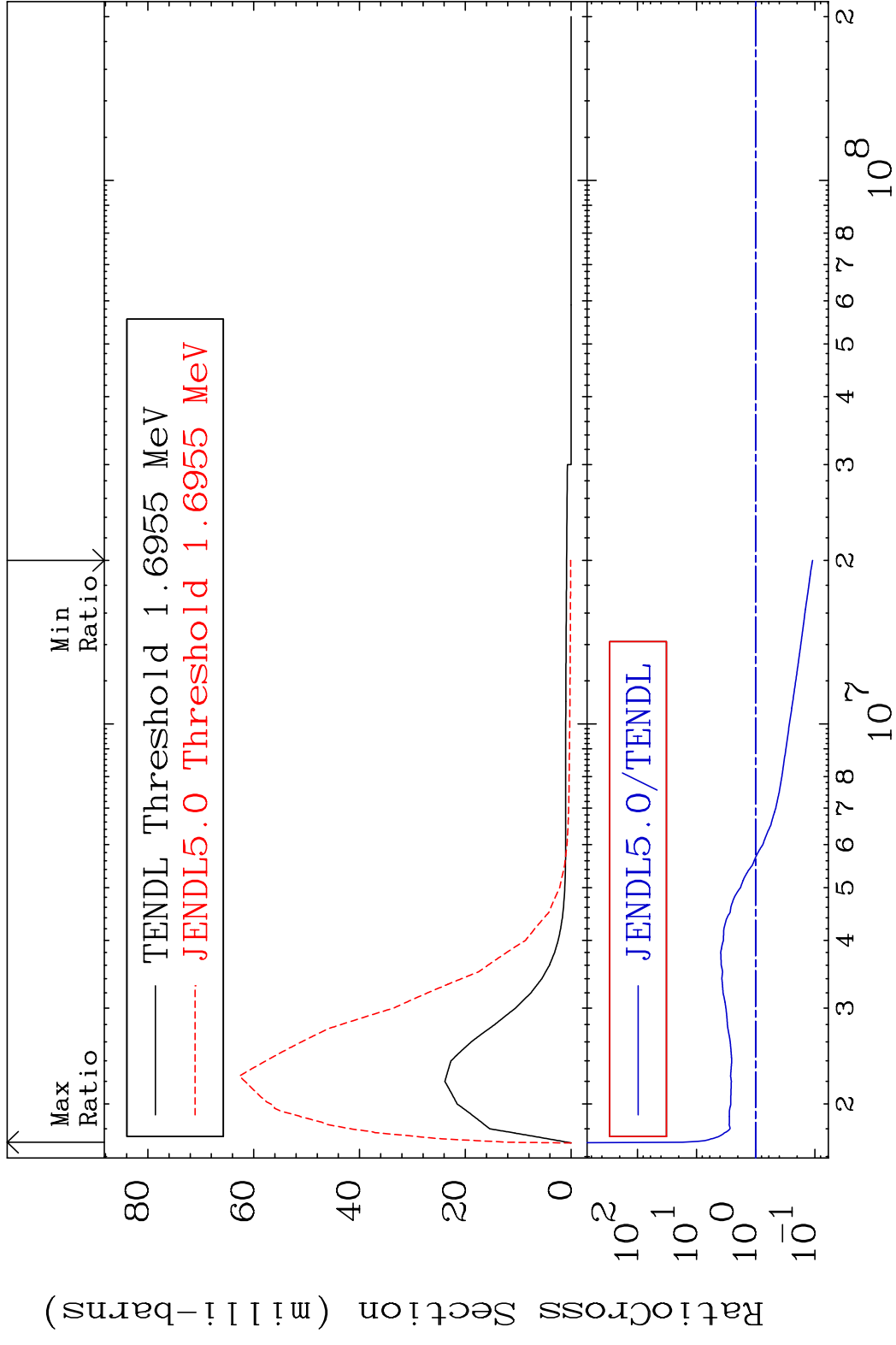
MAT 6243 MT= 66 (n, n') Level 62-Sm-150
 Cross Section -100.0 To 9999. %



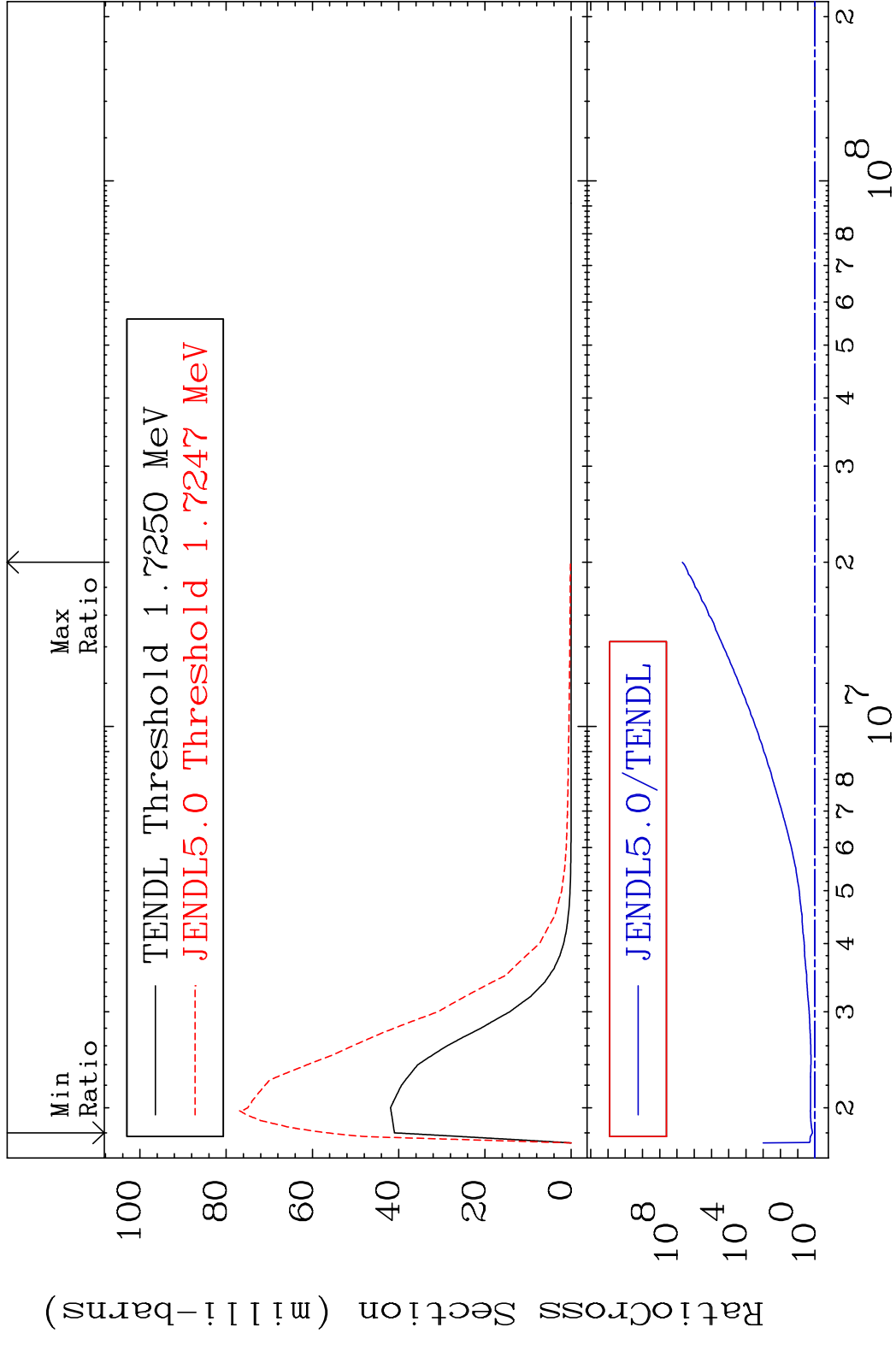
MAT 6243 MT= 67 (n, n') Level 62-Sm-150
 Cross Section -96.51 To 531.1 %



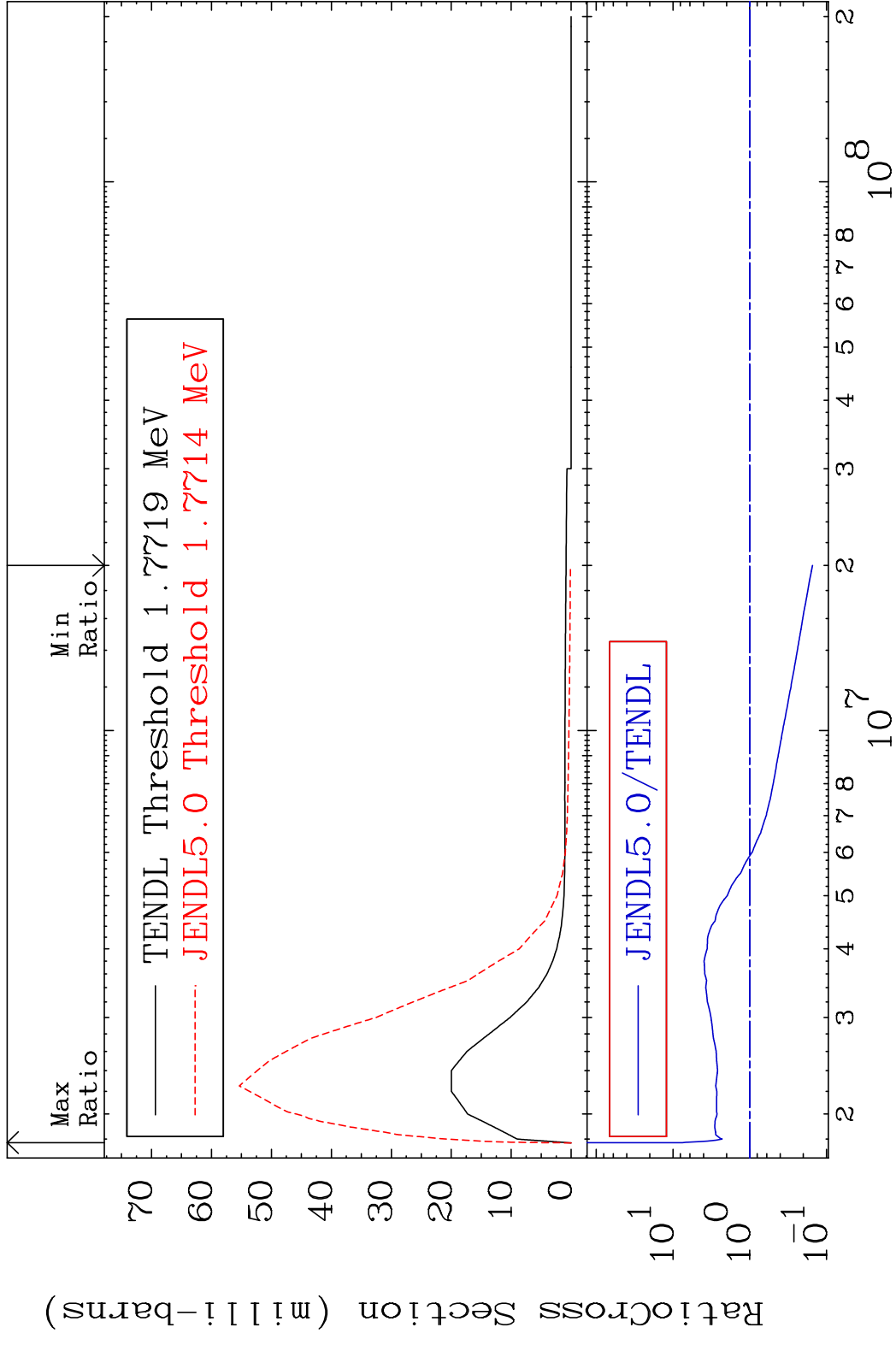
MAT 6243 MT= 68 (n, n') Level 62-Sm-150
 Cross Section -89.07 To 1639. %



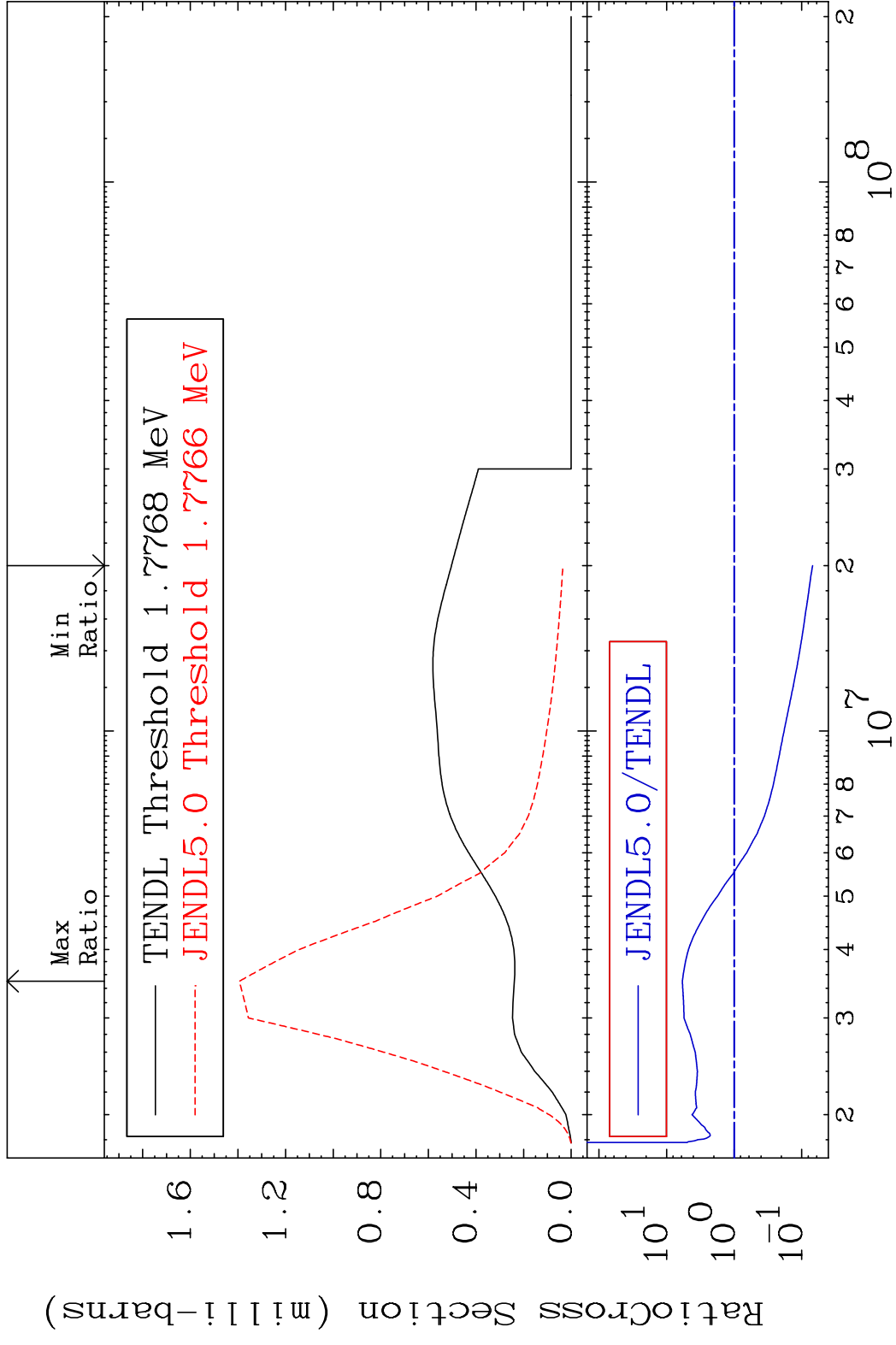
MAT 6243 MT= 69 (n, n') Level 62-Sm-150
 Cross Section 37.90 To 9999. %



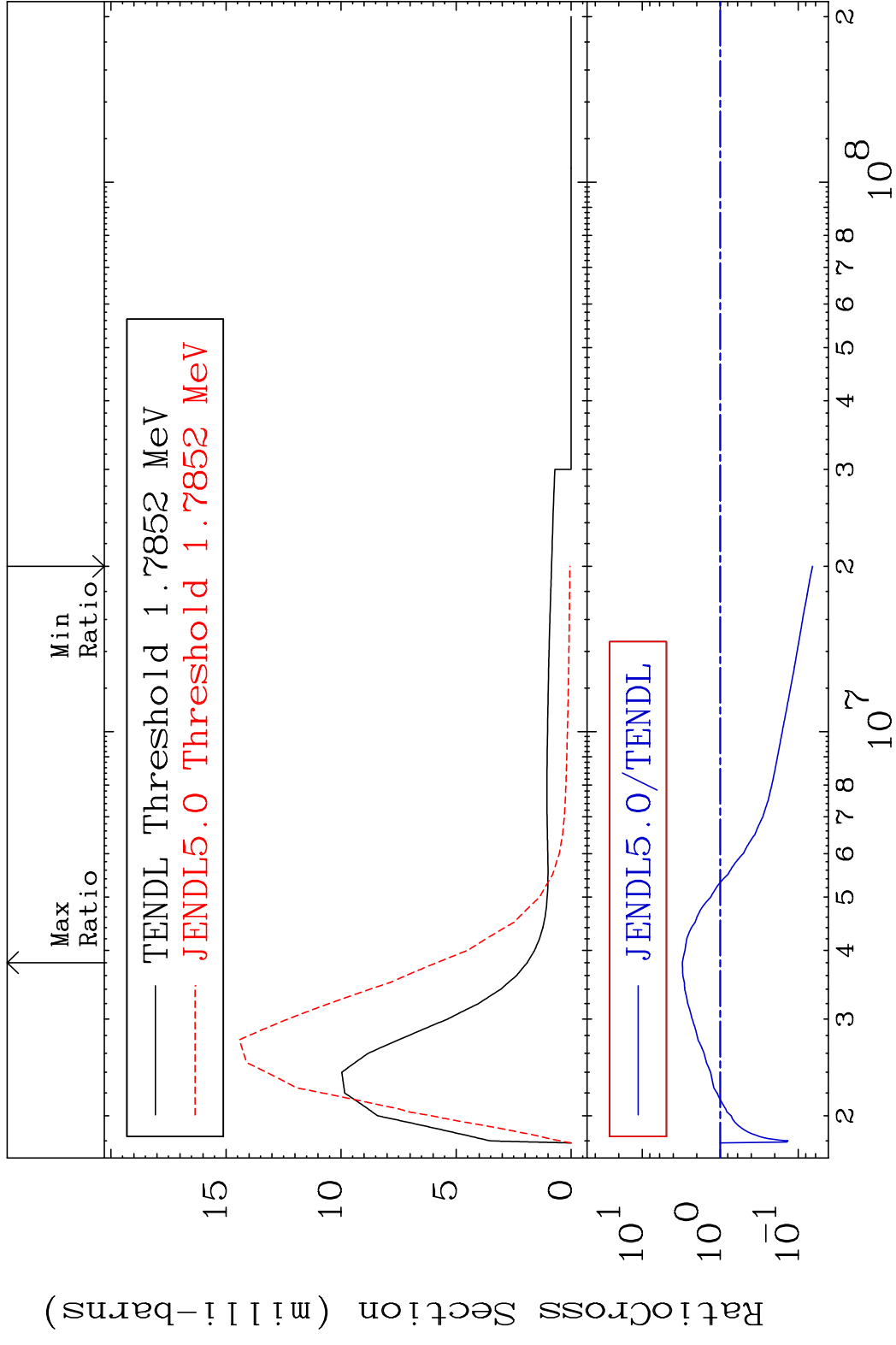
MAT 6243 MT= 70 (n, n') Level 62-Sm-150
 Cross Section -84.84 To 654.2 %



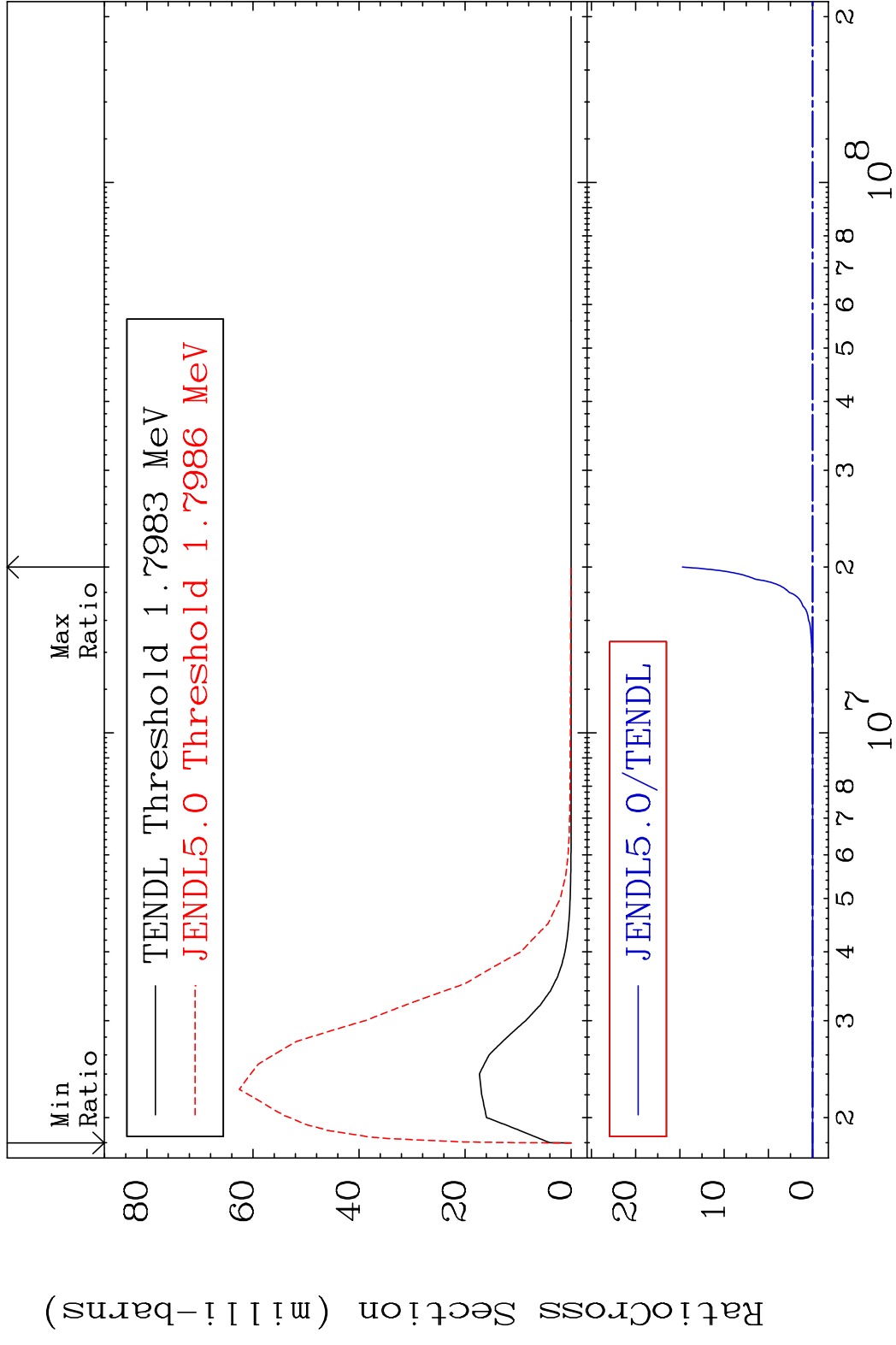
MAT 6243 MT= 71 (n, n') Level 62-Sm-150
 Cross Section -93.11 To 483.5 %



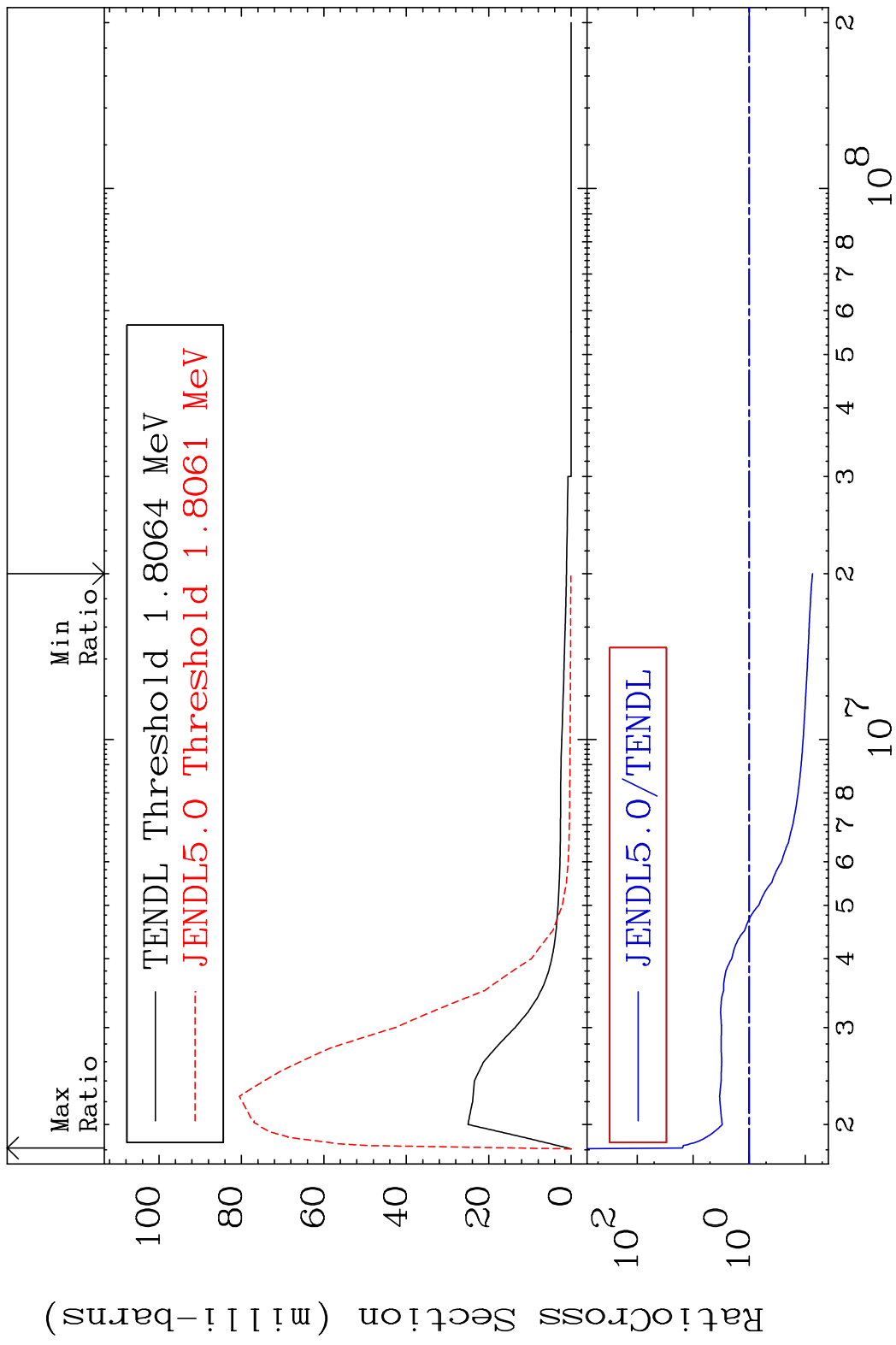
MAT 6243 MT= 72 (n, n') Level 62-Sm-150
 Cross Section -93.46 To 205.9 %



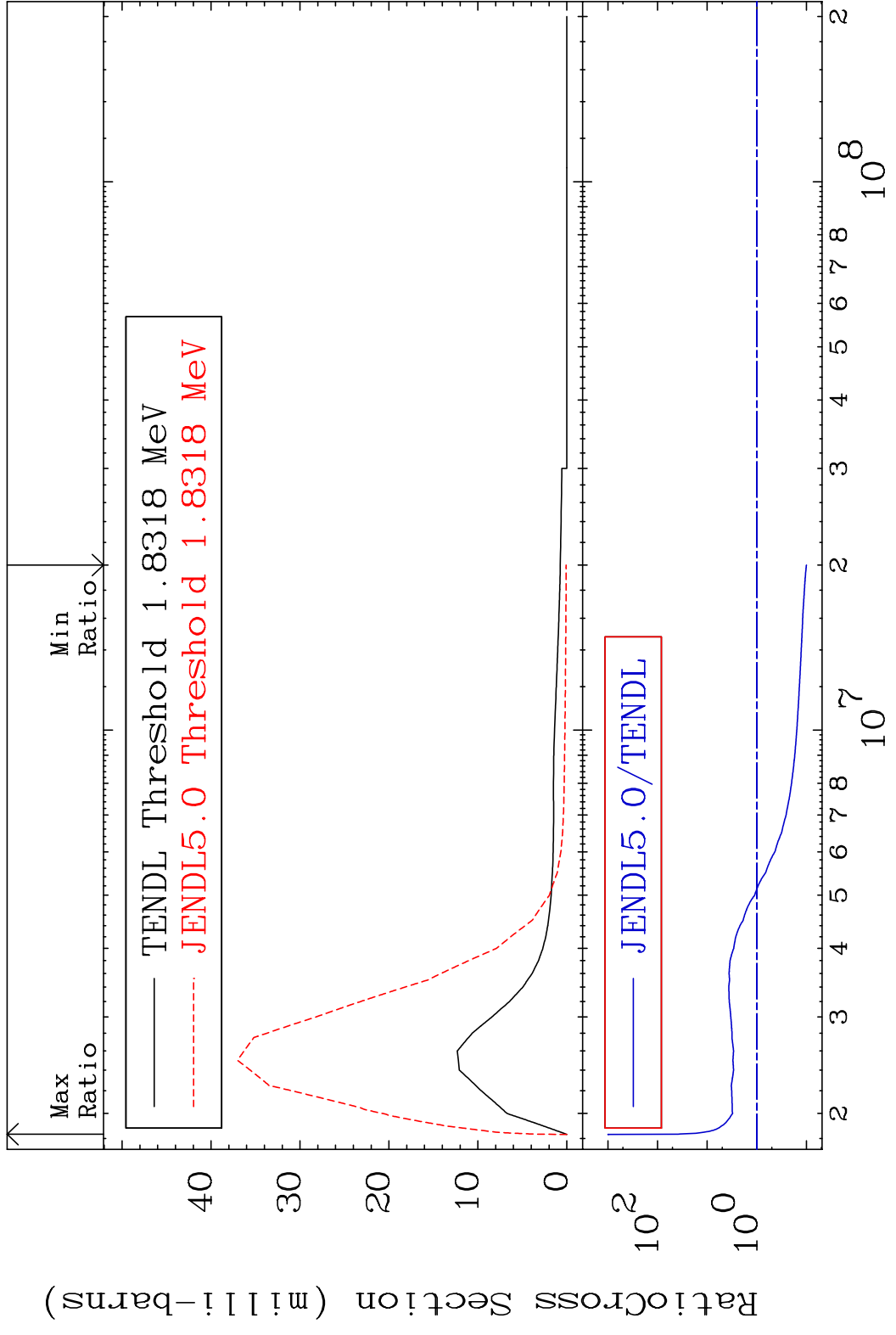
MAT 6243 MT= 73 (n, n') Level 62-Sm-150
 Cross Section -100.0 To 9999. %



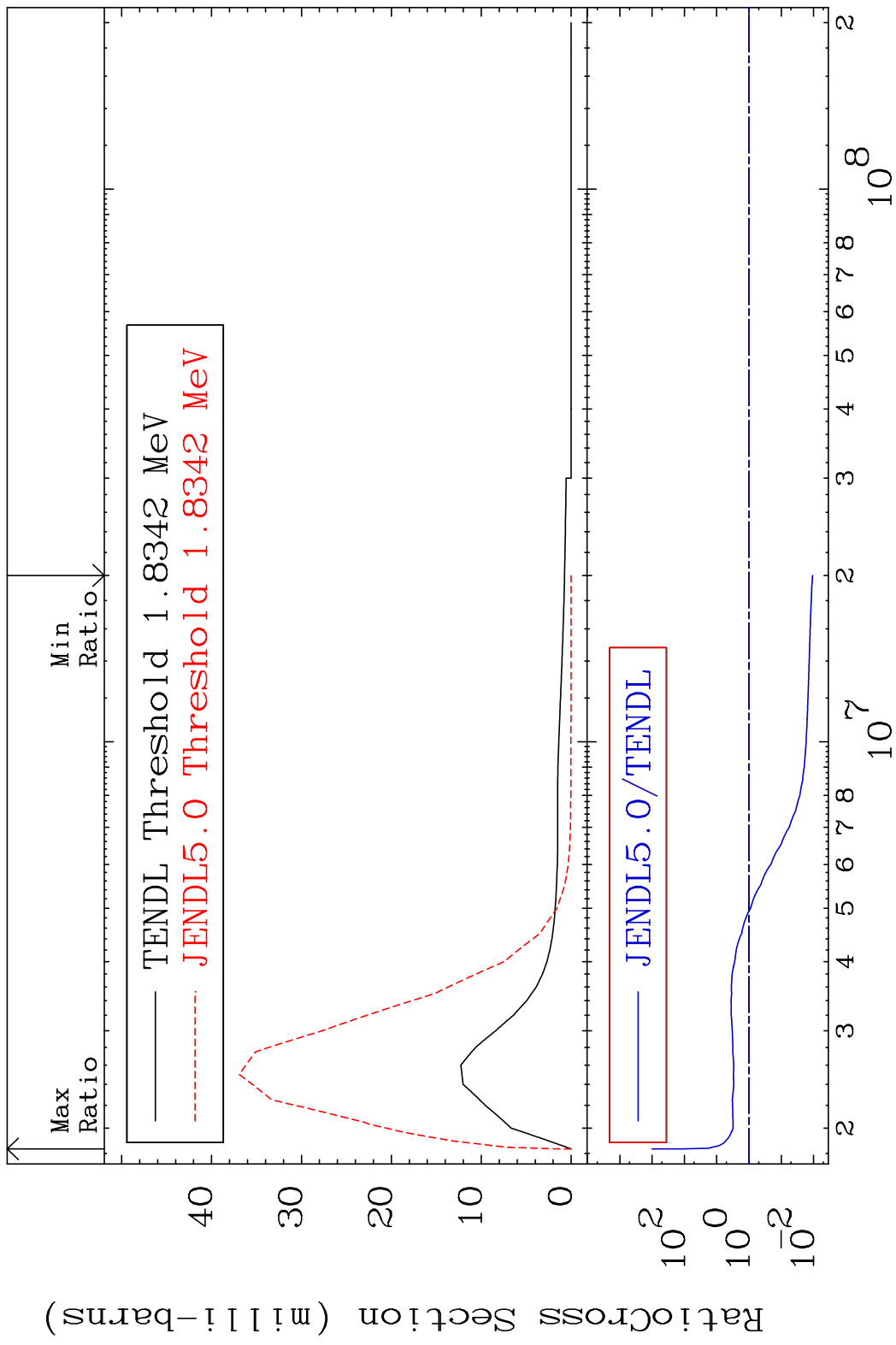
MAT 6243 MT= 74 (n,n') Level 62-Sm-150
 Cross Section -92.60 To 1463. %



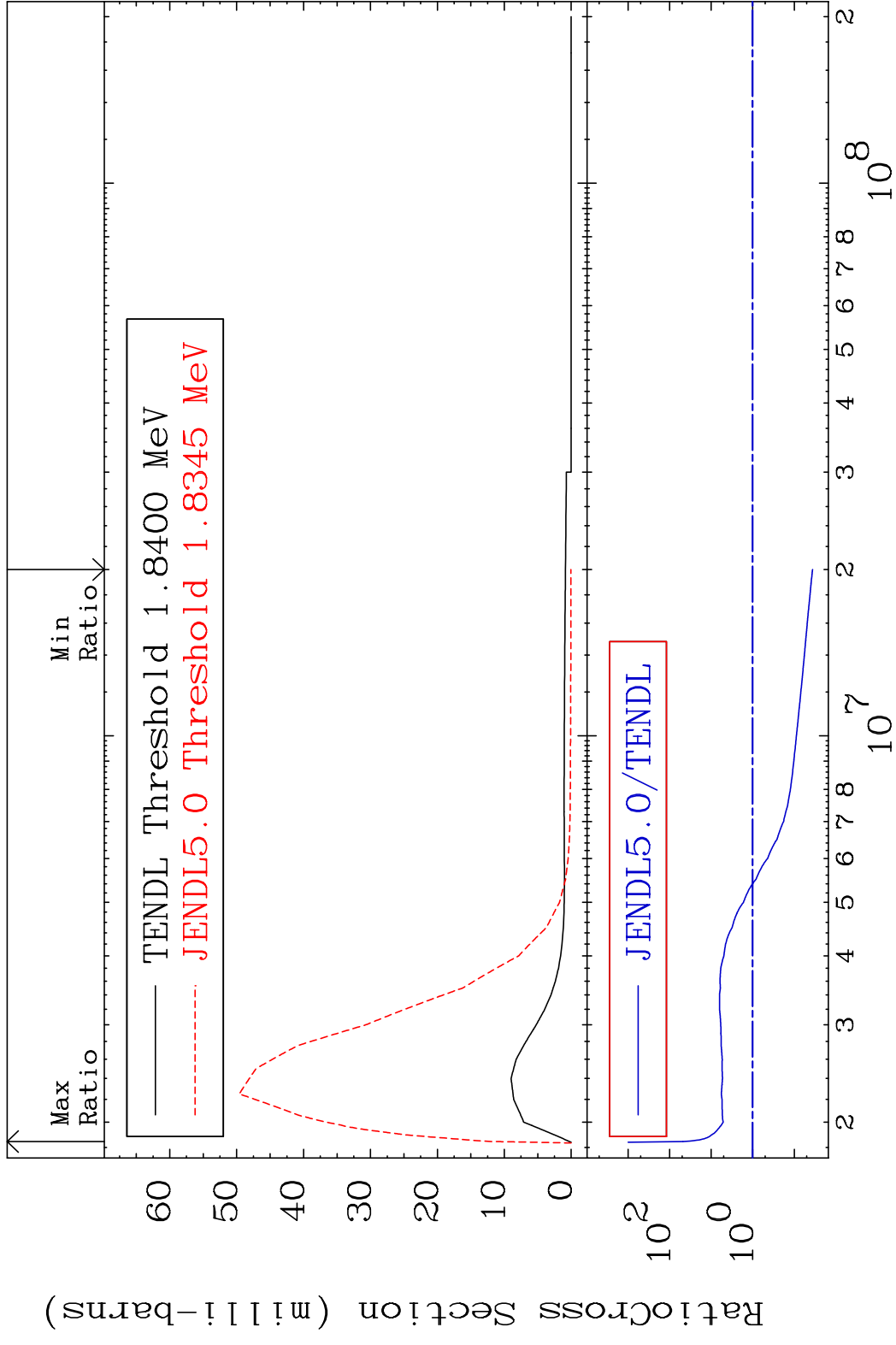
MAT 6243 MT= 75 (n,n') Level 62-Sm-150
 Cross Section -89.94 To 3922. %



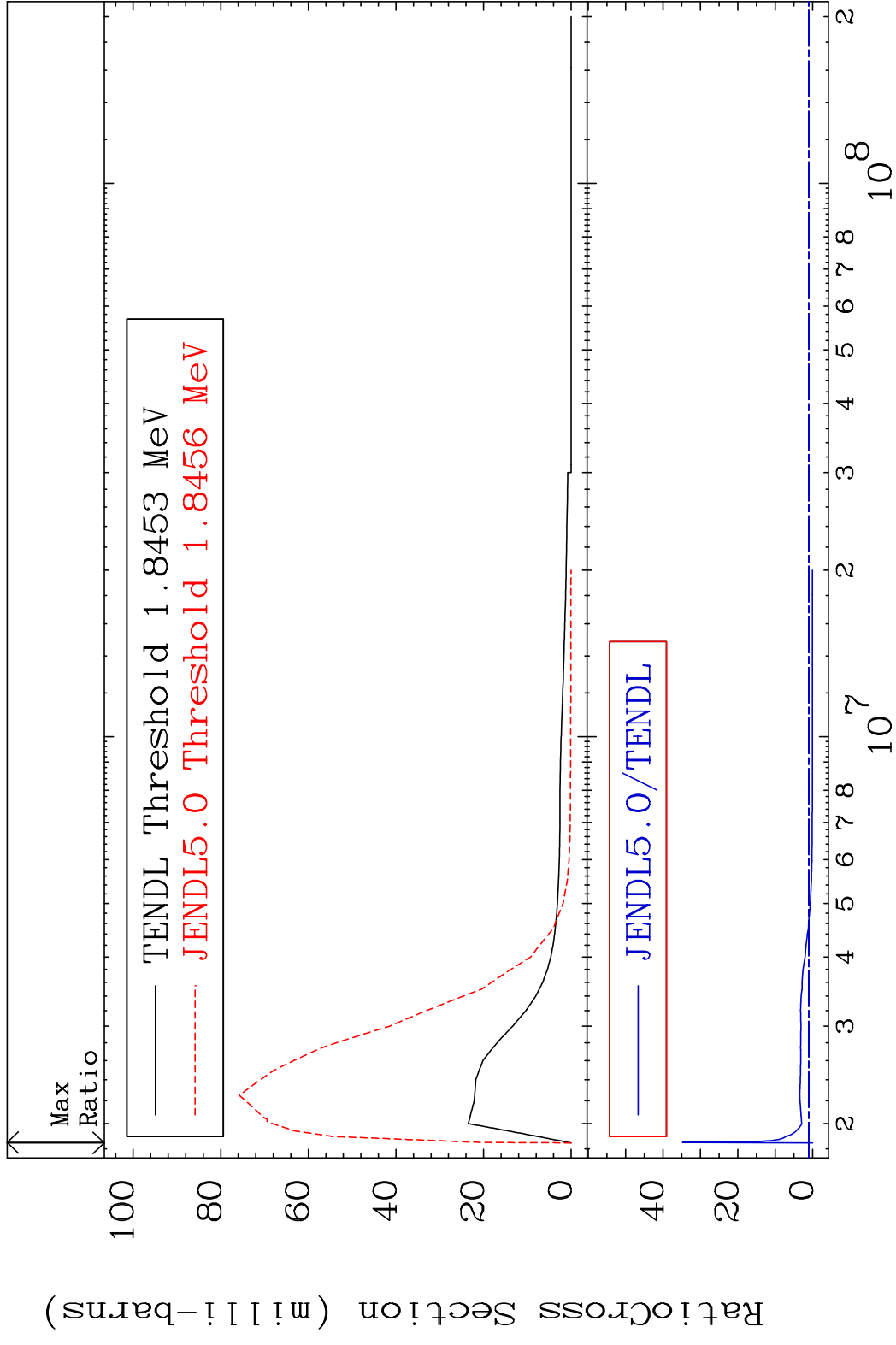
MAT 6243 MT= 76 (n,n') Level 62-Sm-150
 Cross Section -98.93 To 9999. %



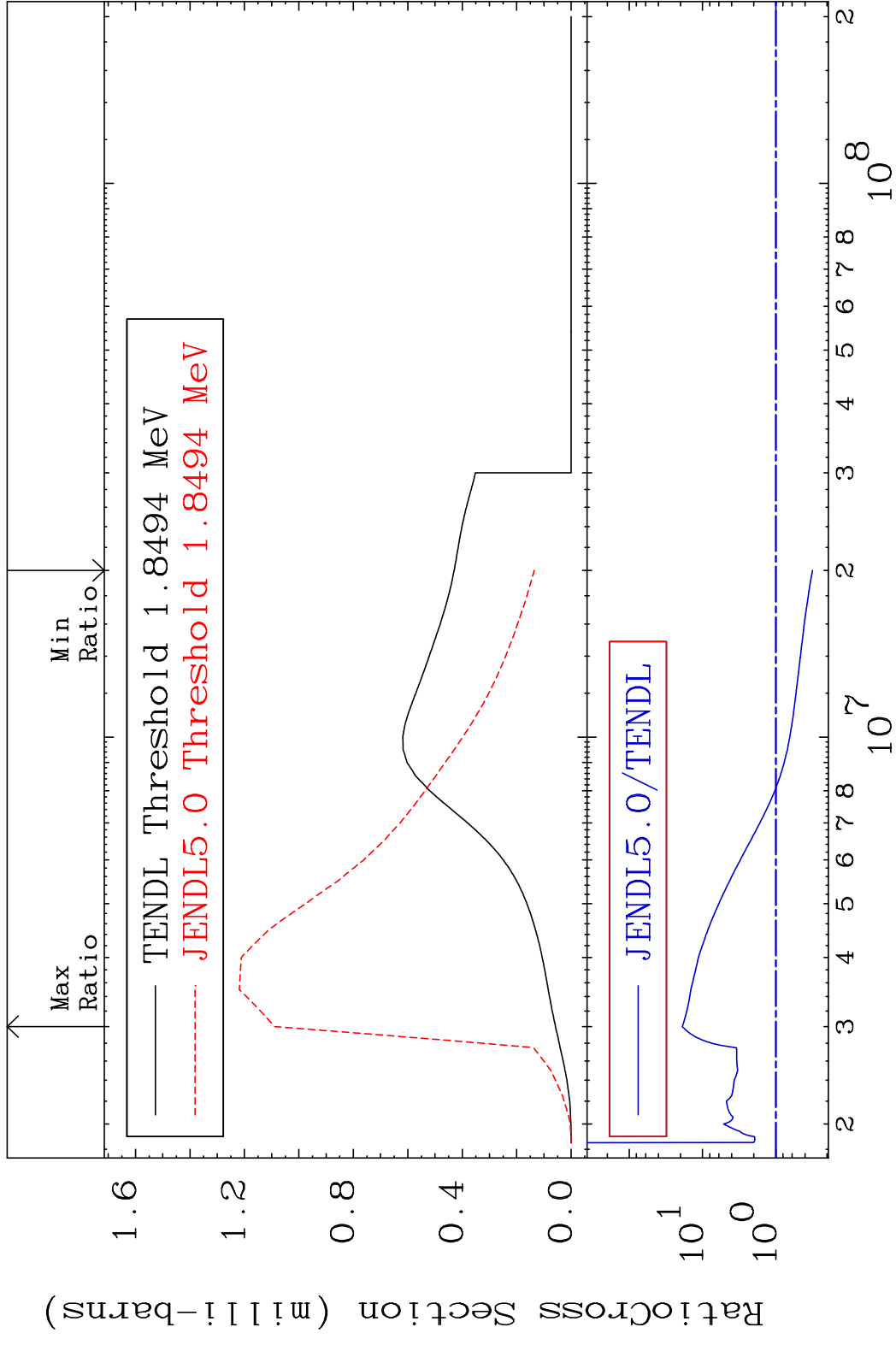
MAT 6243 MT= 77 (n, n') Level 62-Sm-150
 Cross Section -96.37 To 4852. %



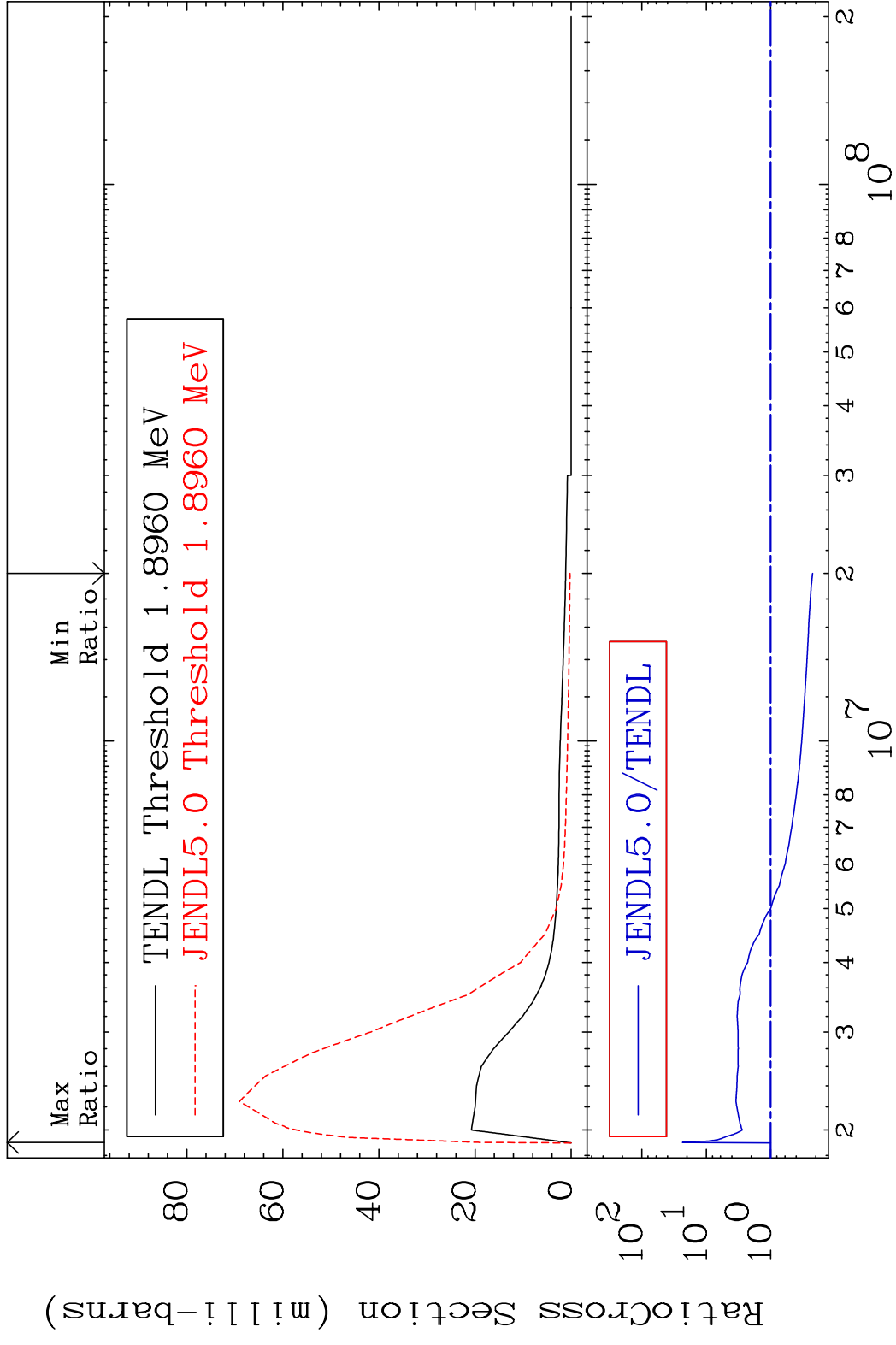
MAT 6243 MT= 78 (n, n') Level 62-Sm-150
 Cross Section -100.0 To 3380. %



MAT 6243 MT= 79 (n, n') Level 62-Sm-150
 Cross Section -68.47 To 1788. %



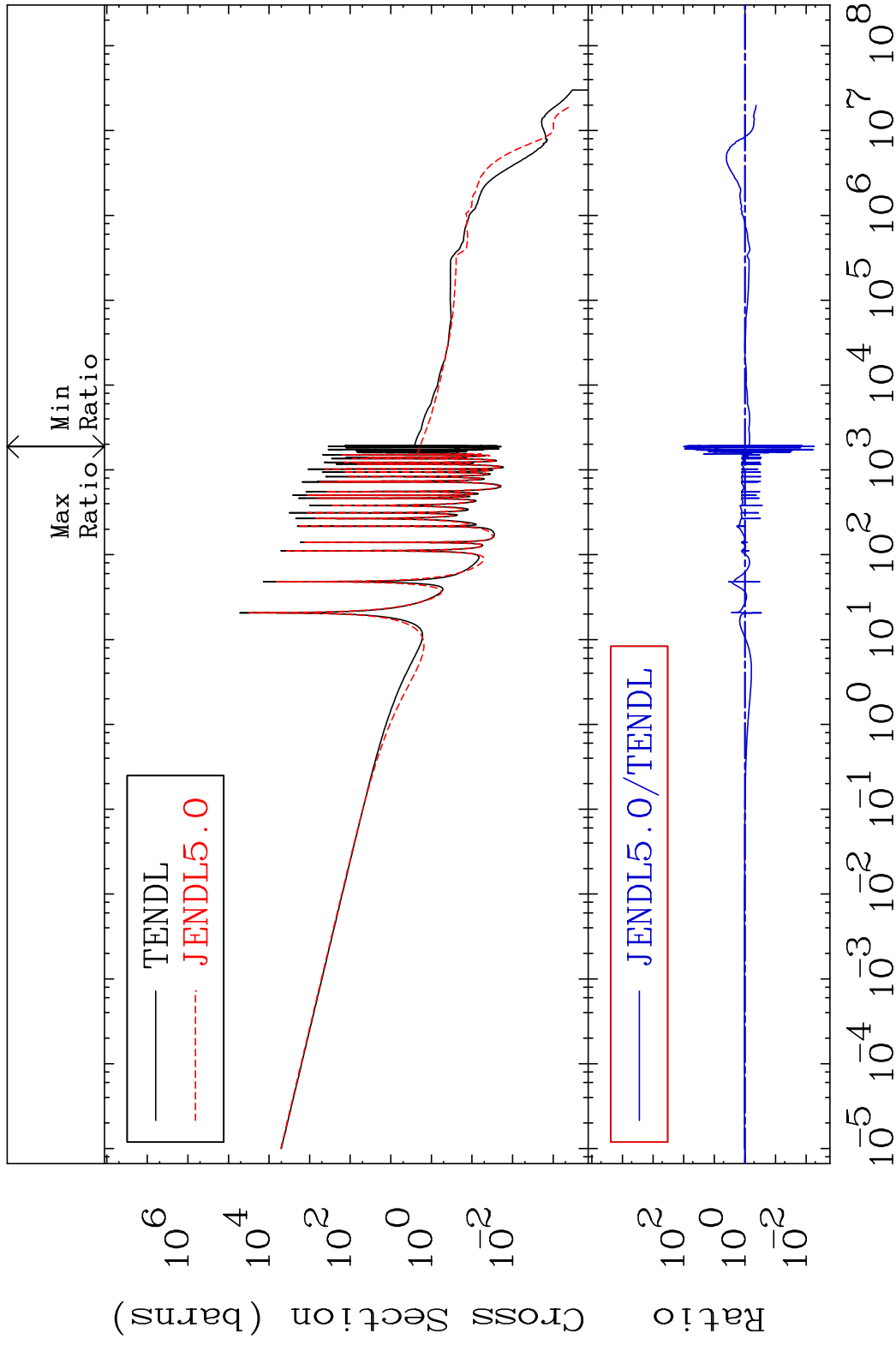
MAT 6243 MT= 80 (n, n') Level 62-Sm-150
 Cross Section -77.63 To 2249. %



40 Incident Energy (eV) 62-Sm-150

MAT 6243

(n, γ)
Cross Section -99.45 To 9934. %
62-Sm-150

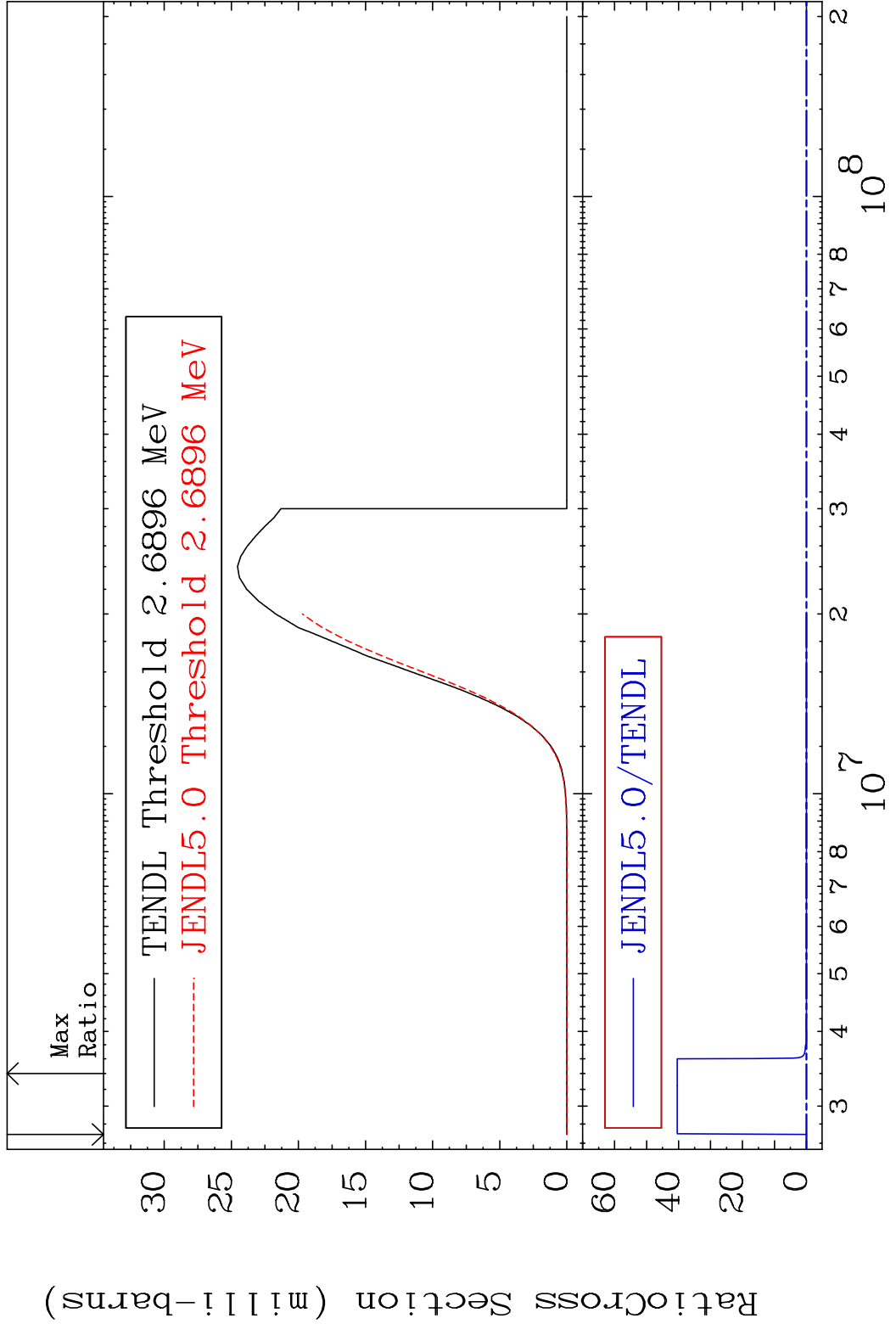


42

Incident Energy (eV)

62-Sm-150

MAT 6243 (n,p) 62-Sm-150
 Cross Section -100.0 To 9999. %

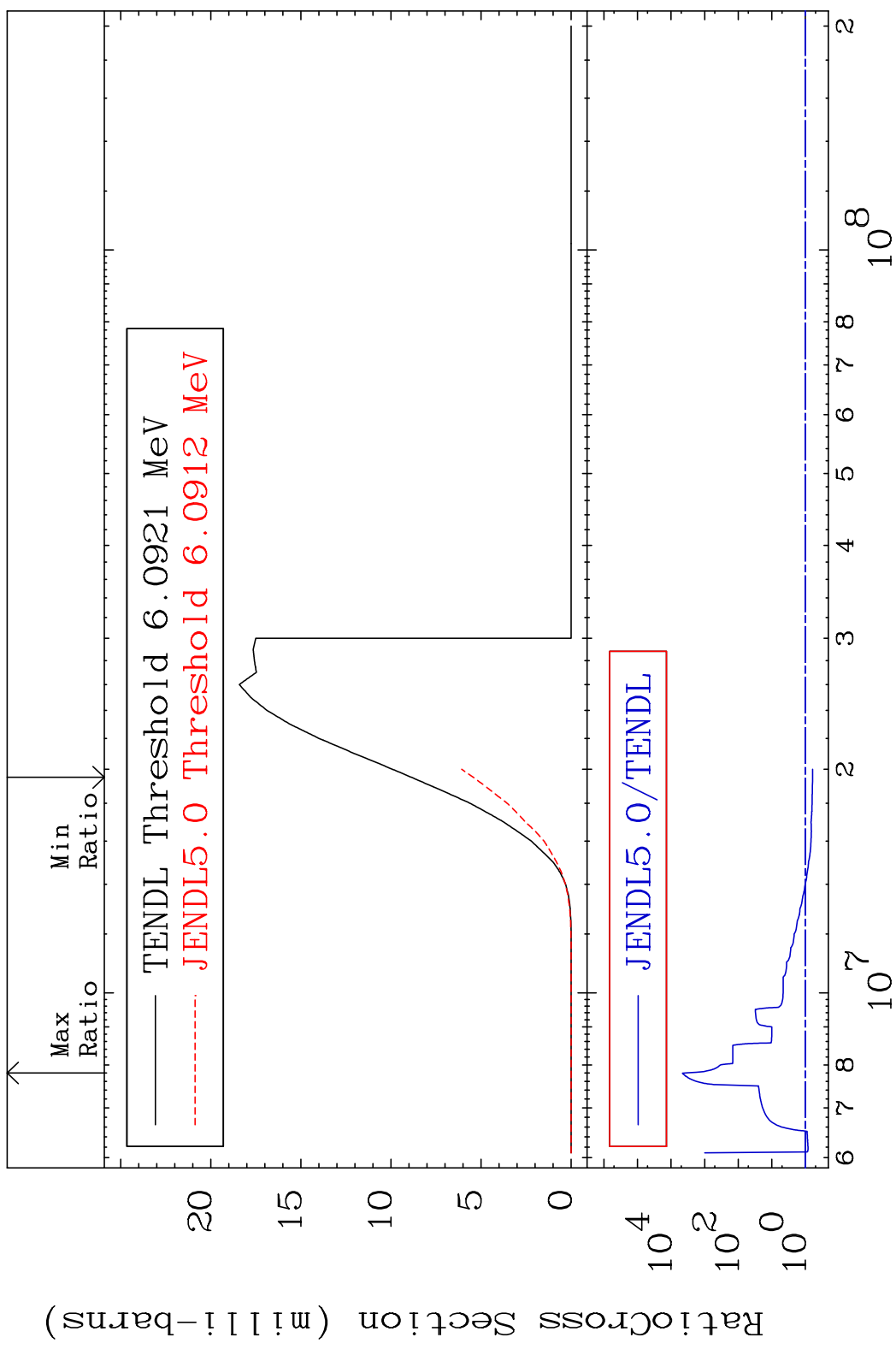


MAT 6243

(n, d)

62-Sm-150

Cross Section -38.74 To 9999. %



44

Incident Energy (eV)

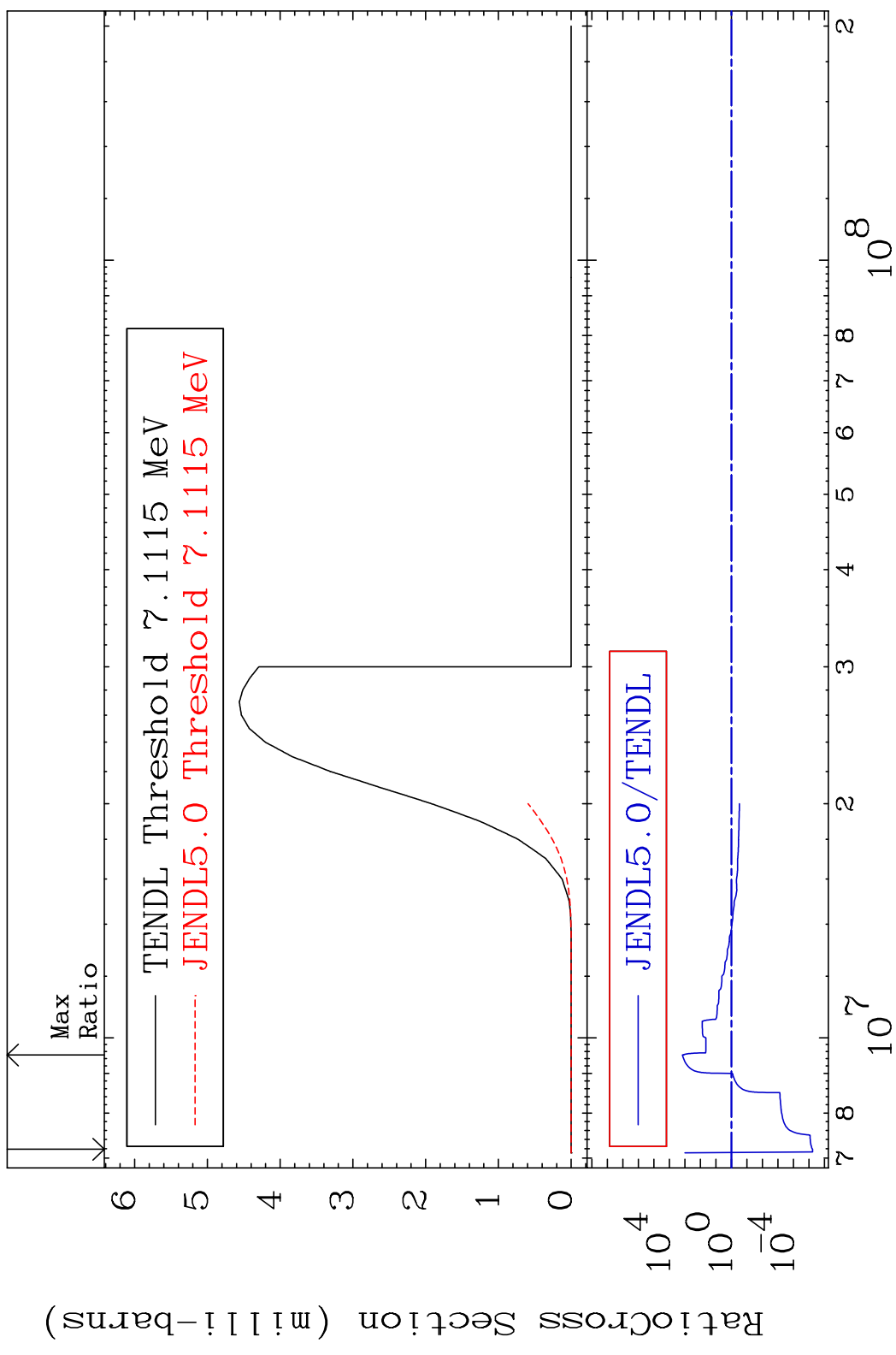
62-Sm-150

MAT 6243

(n, t)

62-Sm-150

Cross Section -100.0 To 9999. %



45

Incident Energy (eV)

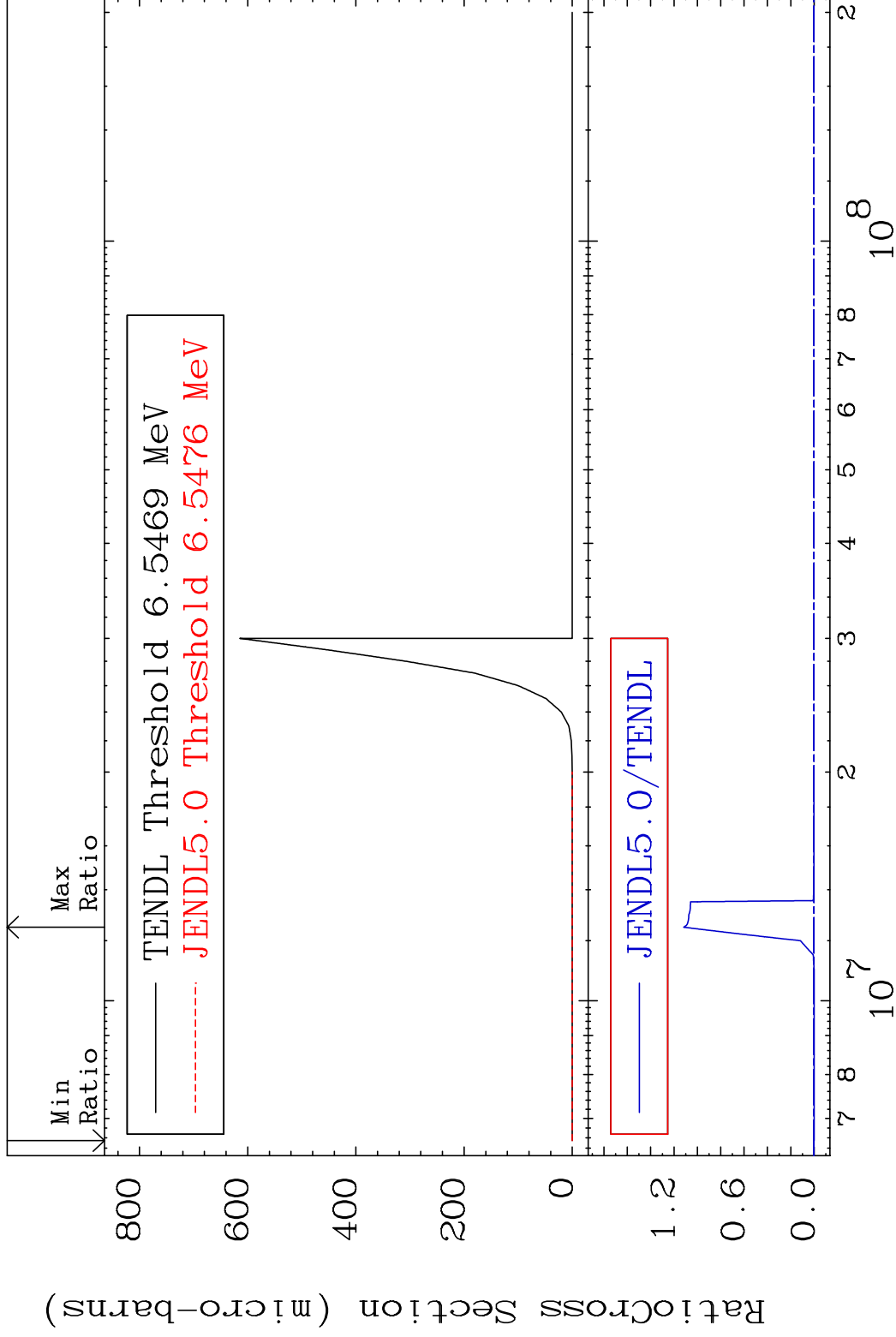
62-Sm-150

MAT 6243

(n, He-3)

62-Sm-150

Cross Section -100.0 To 9999. %



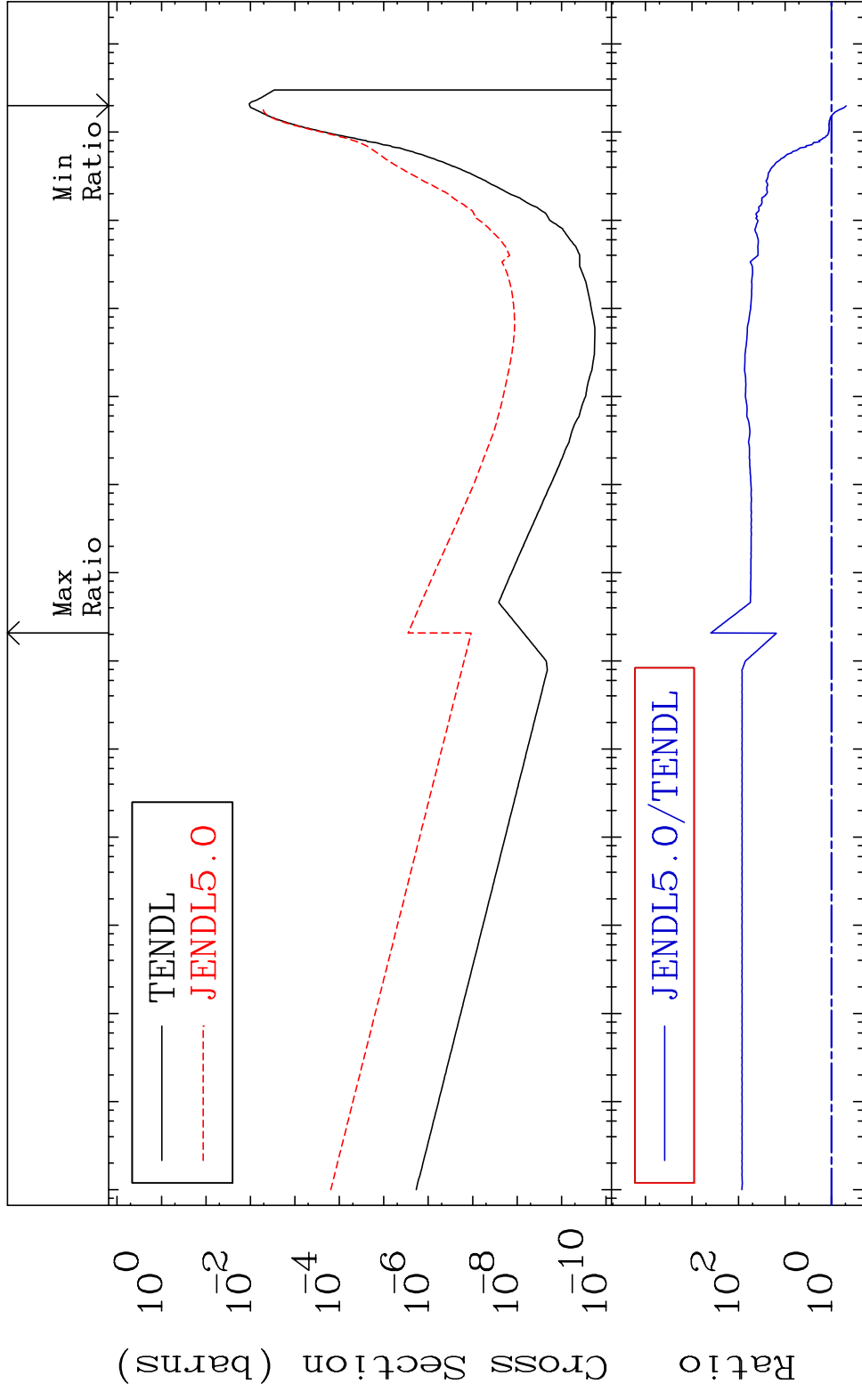
46

Incident Energy (eV)

62-Sm-150

MAT 6243

(n, α)
Cross Section -52.02 To 9999. %
62-Sm-150

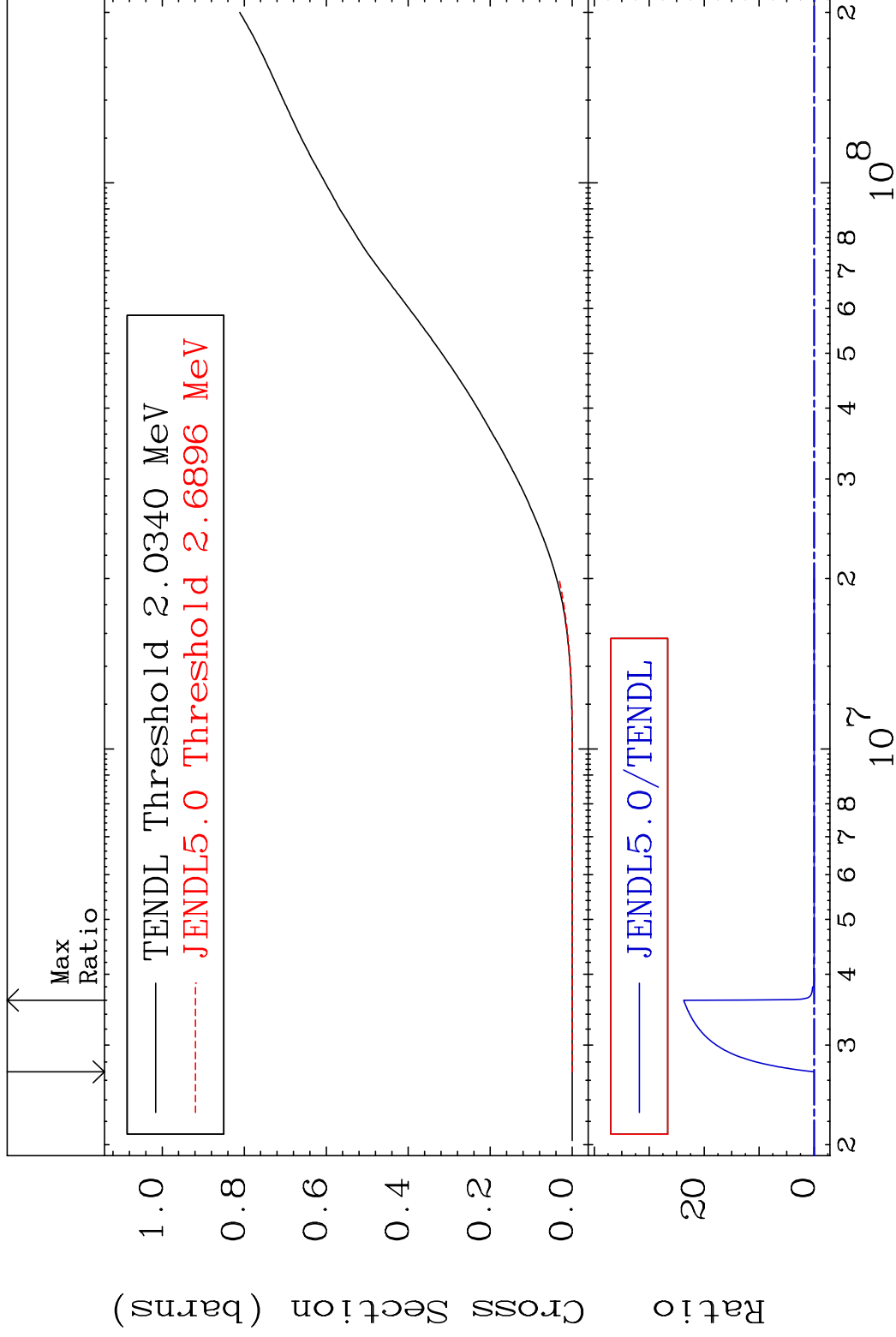


MAT 6243

Hydrogen Production

62-Sm-150

Cross Section -100.0 To 9999. %



48

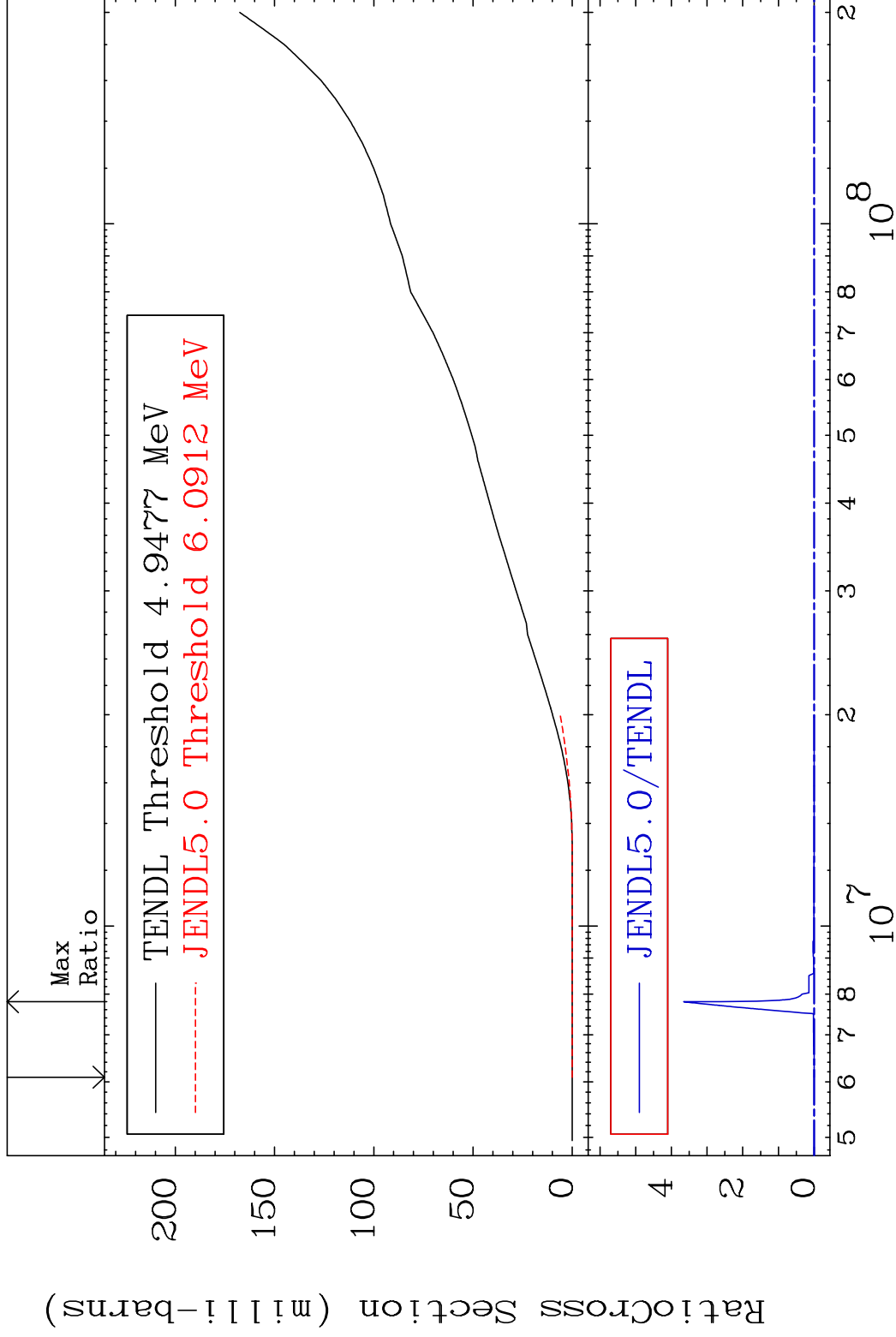
Incident Energy (eV)

62-Sm-150

MAT 6243

Deuterium Production 62-Sm-150

Cross Section -100.0 To 9999. %

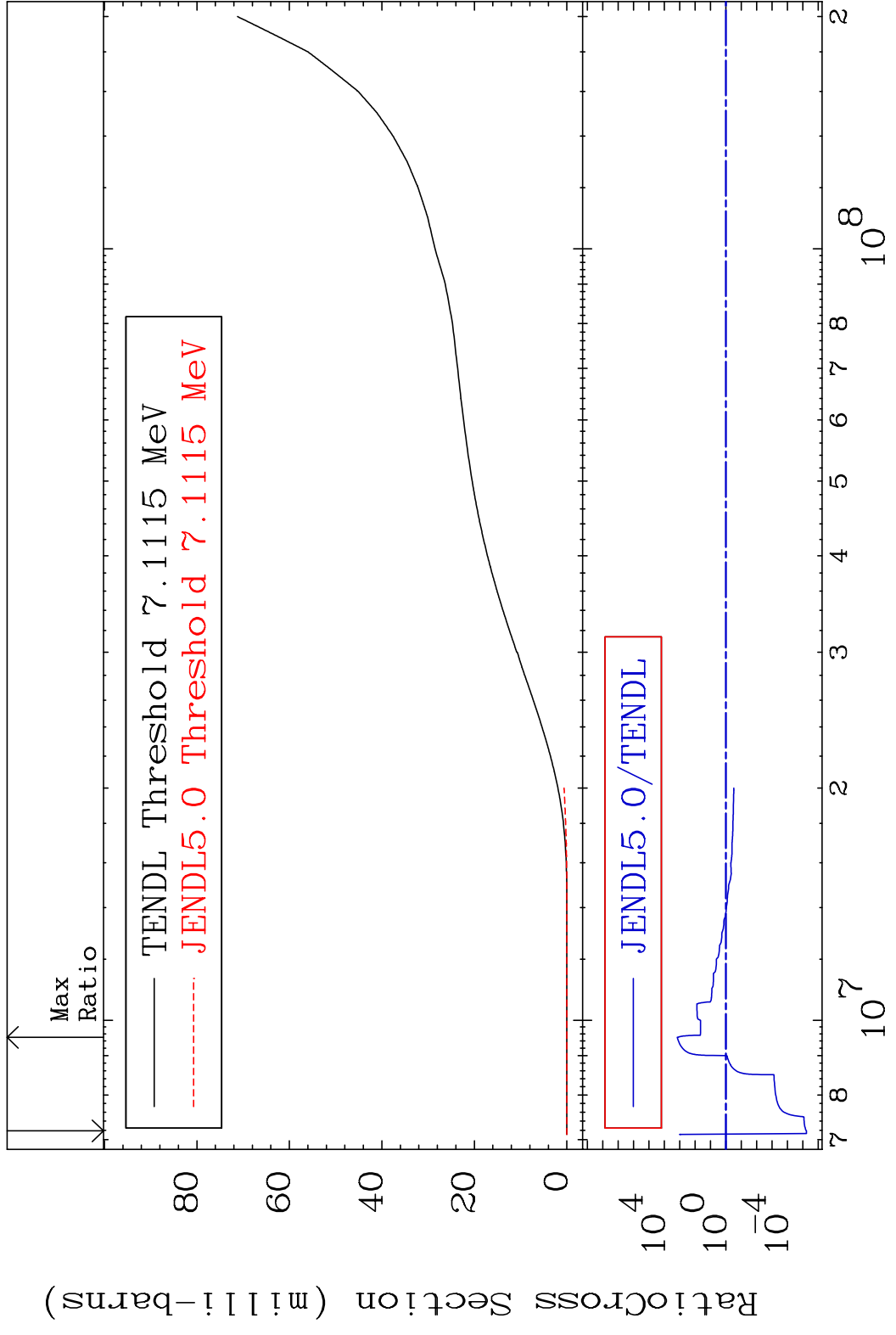


49

Incident Energy (eV)

62-Sm-150

MAT 6243 Tritium Production 62-Sm-150
 Cross Section -100.0 To 9999. %



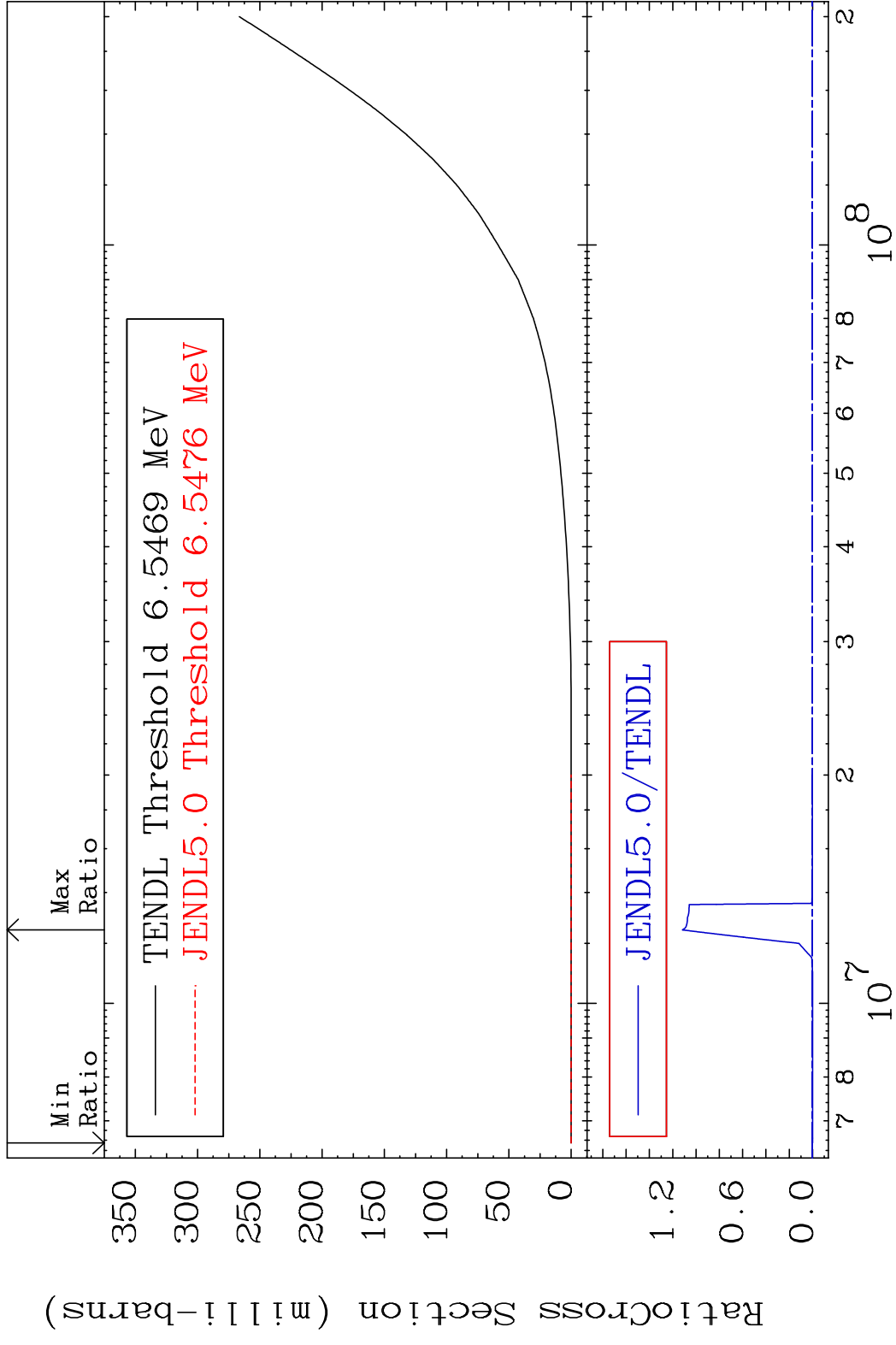
50 Incident Energy (eV) 62-Sm-150

MAT 6243

He-3 Production

62-Sm-150

Cross Section -100.0 To 9999. %

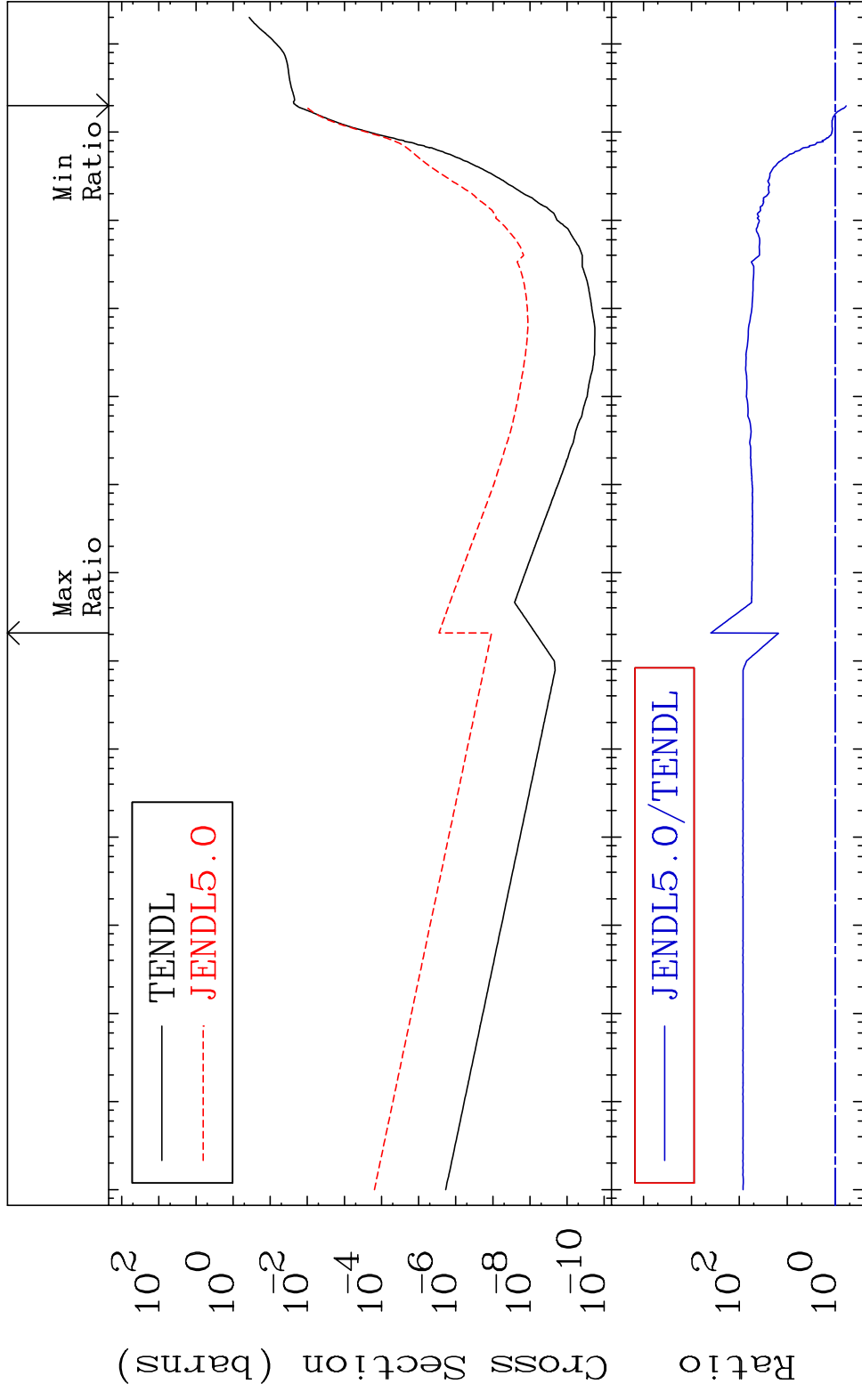


MAT 6243

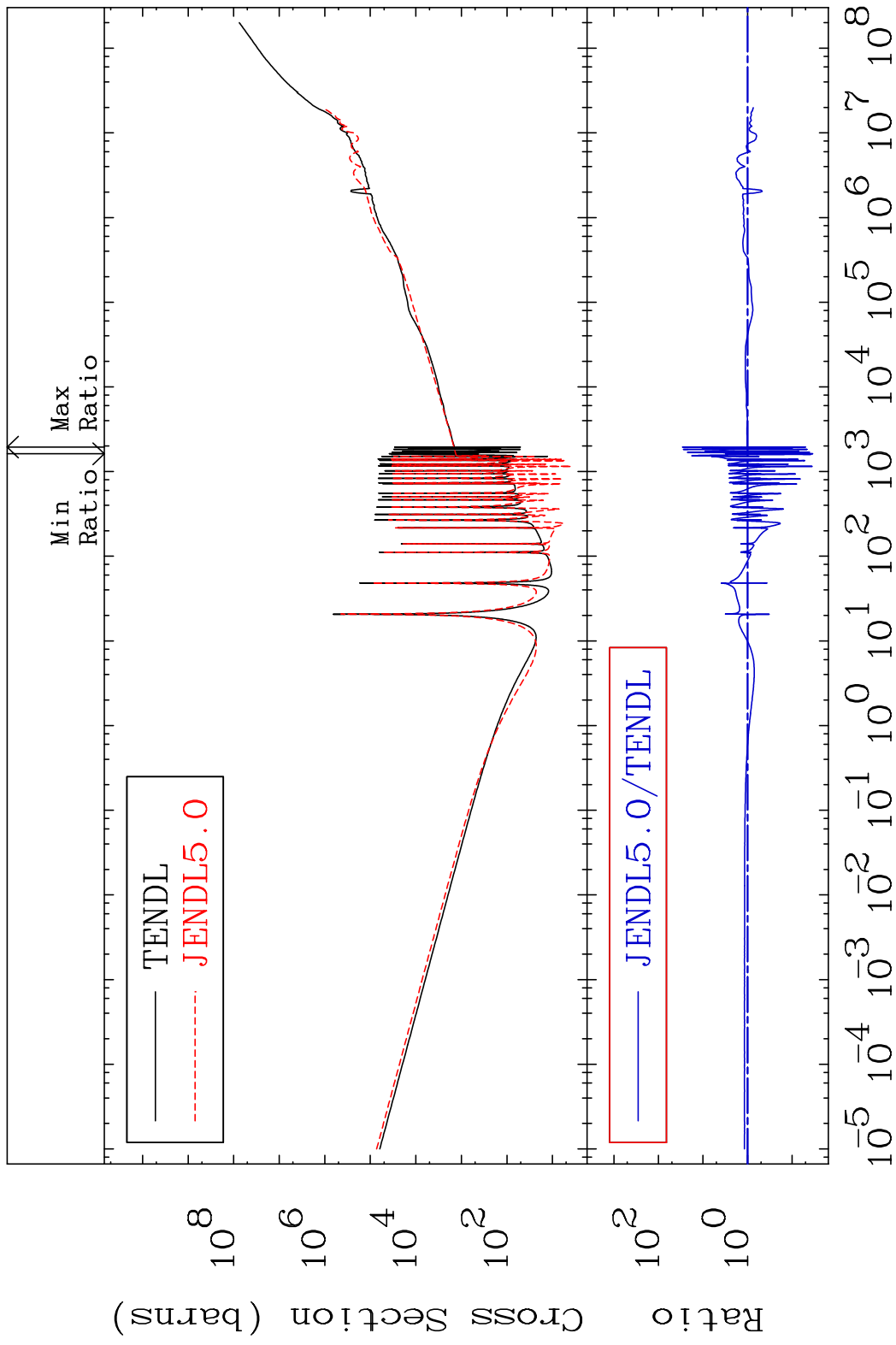
He-4 Production

62-Sm-150

Cross Section -41.32 To 9999. %



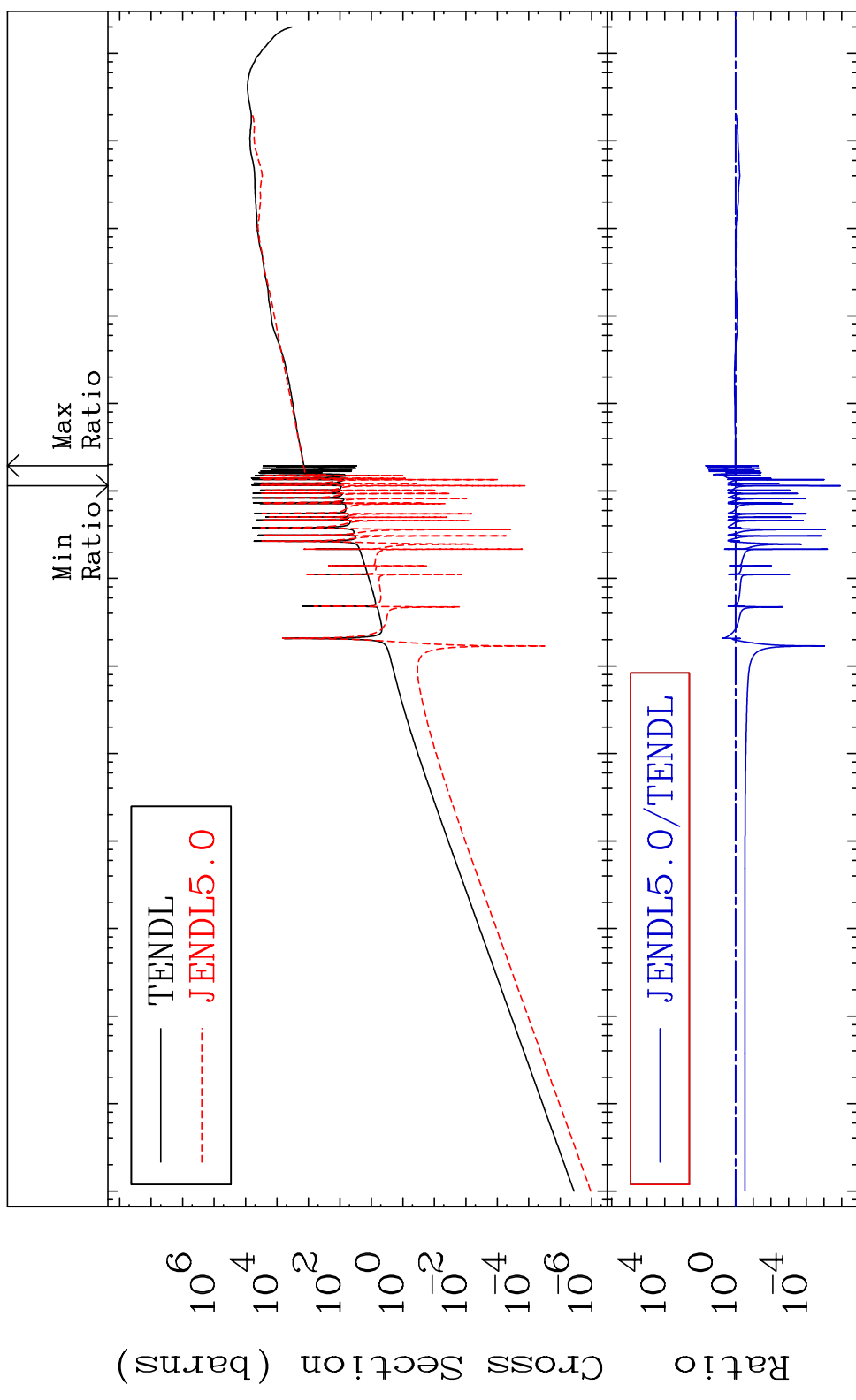
MAT 6243 Kerma total (eV-barns) 62-Sm-150
 Cross Section -96.52 To 2805. %



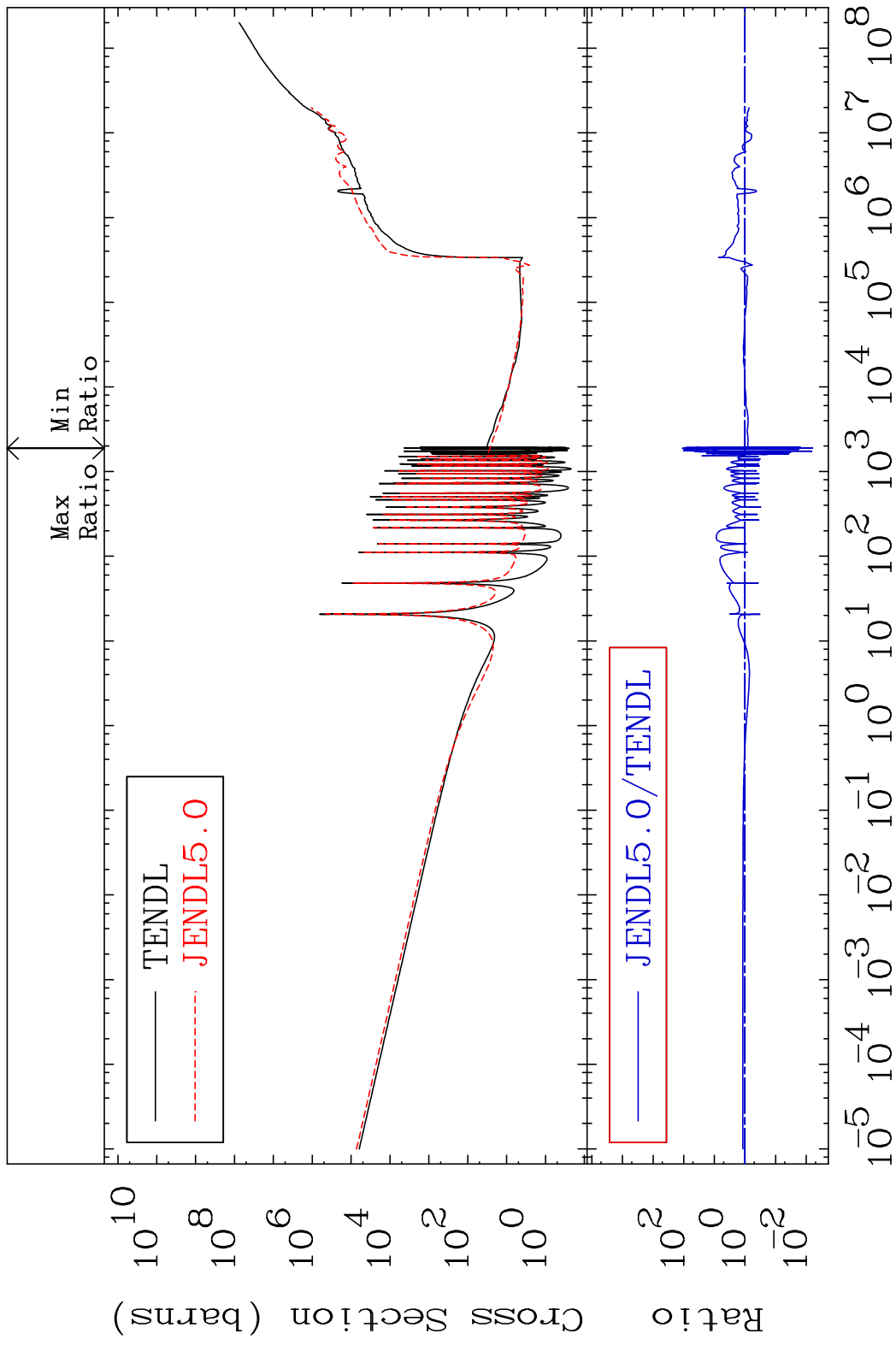
53 Incident Energy (eV) 62-Sm-150

MAT 6243

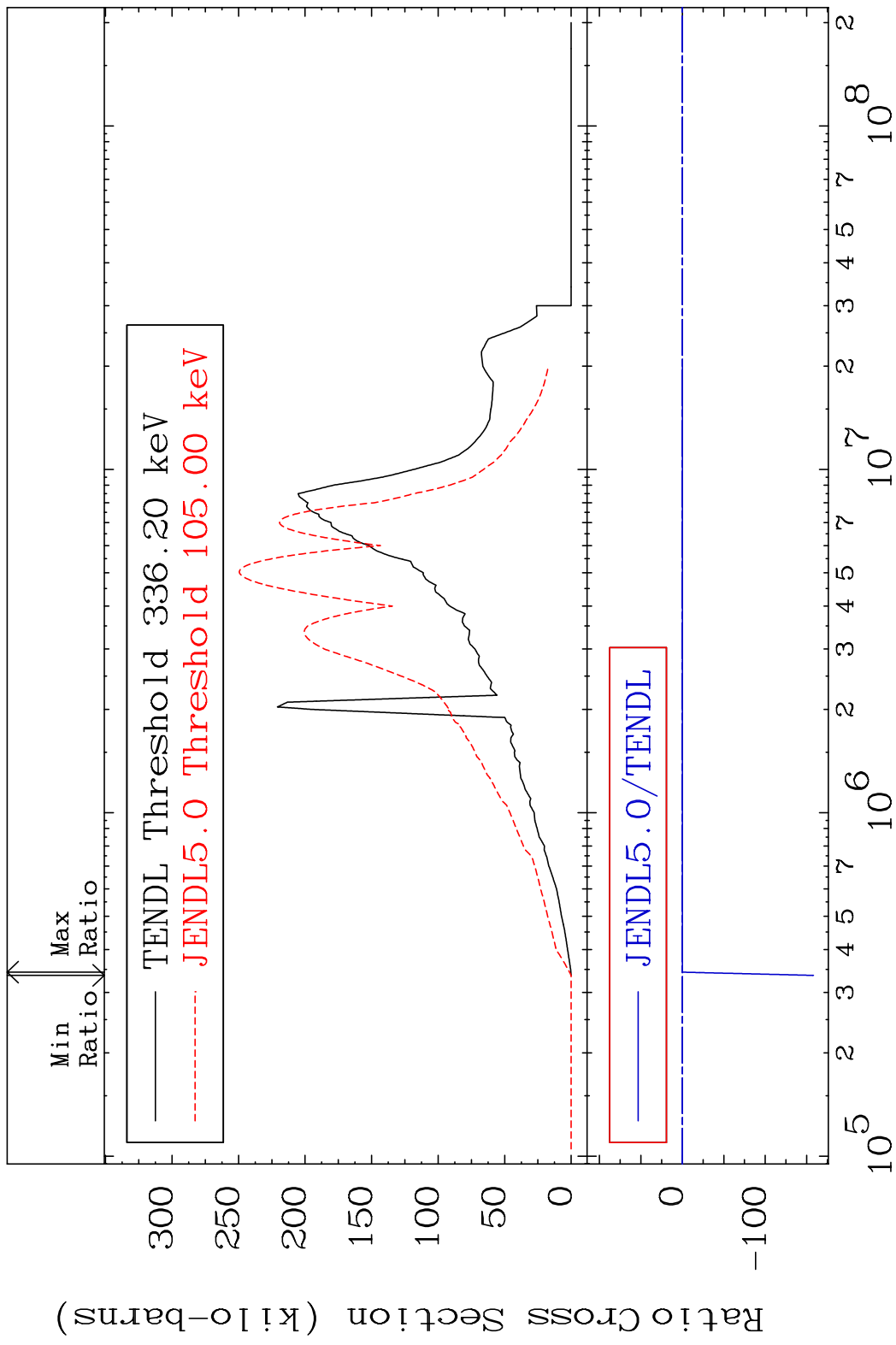
Kerma elastic Cross Section -100.0 To 4705. %
62-Sm-150



MAT 6243 Kerma non-elastic (all but mt2) 62-Sm-150
 Cross Section -99.38 To 9999. %

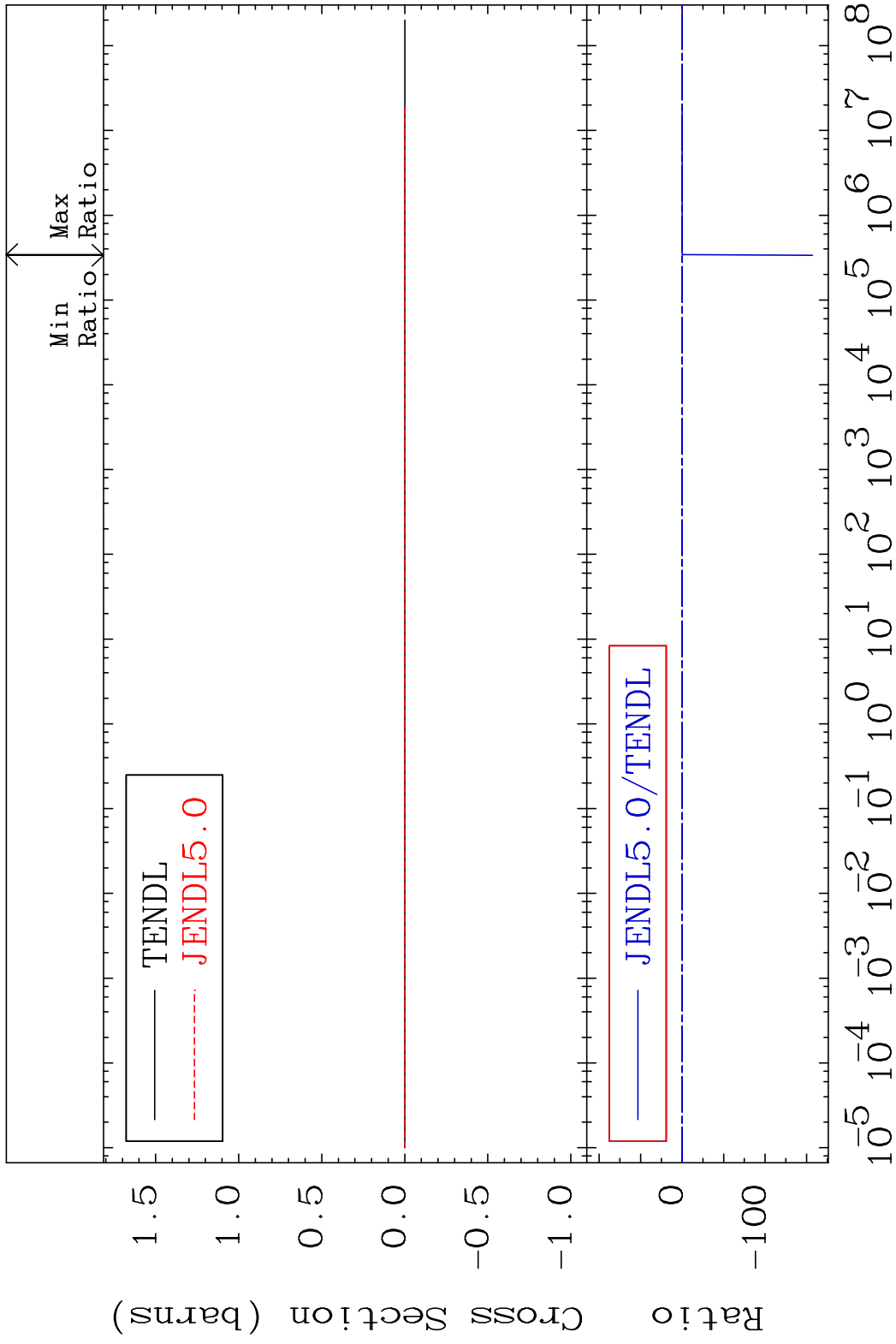


MAT 6243 Kerma inelastic (mt51-91) 62-Sm-150
 Cross Section -9999. To 414.2 %



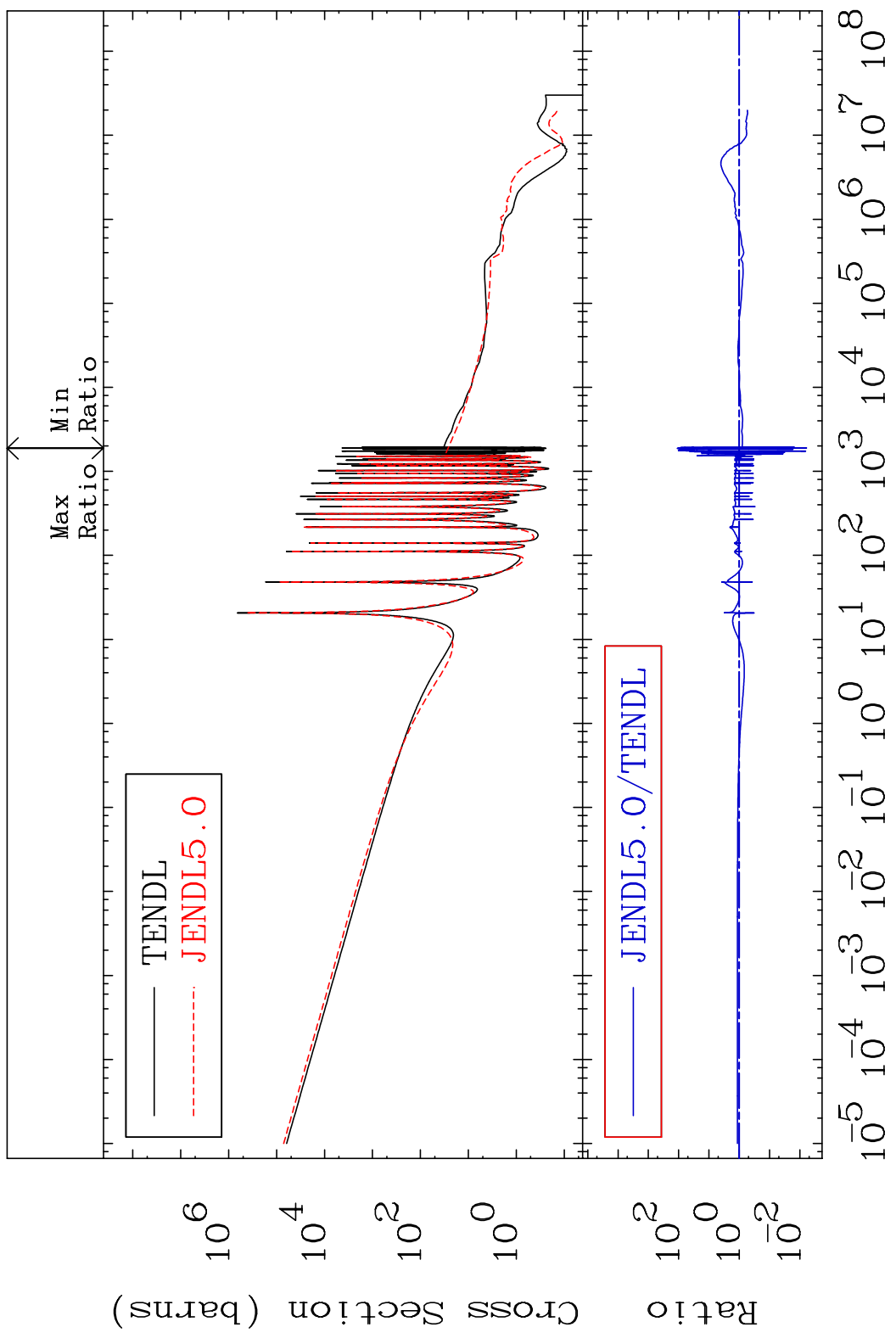
56 Incident Energy (eV) 62-Sm-150

MAT 6243 Kerma fission (mt18 or mt19-20-21-38) ^{62}Sm -150
 Cross Section -9999. To 414.2 %



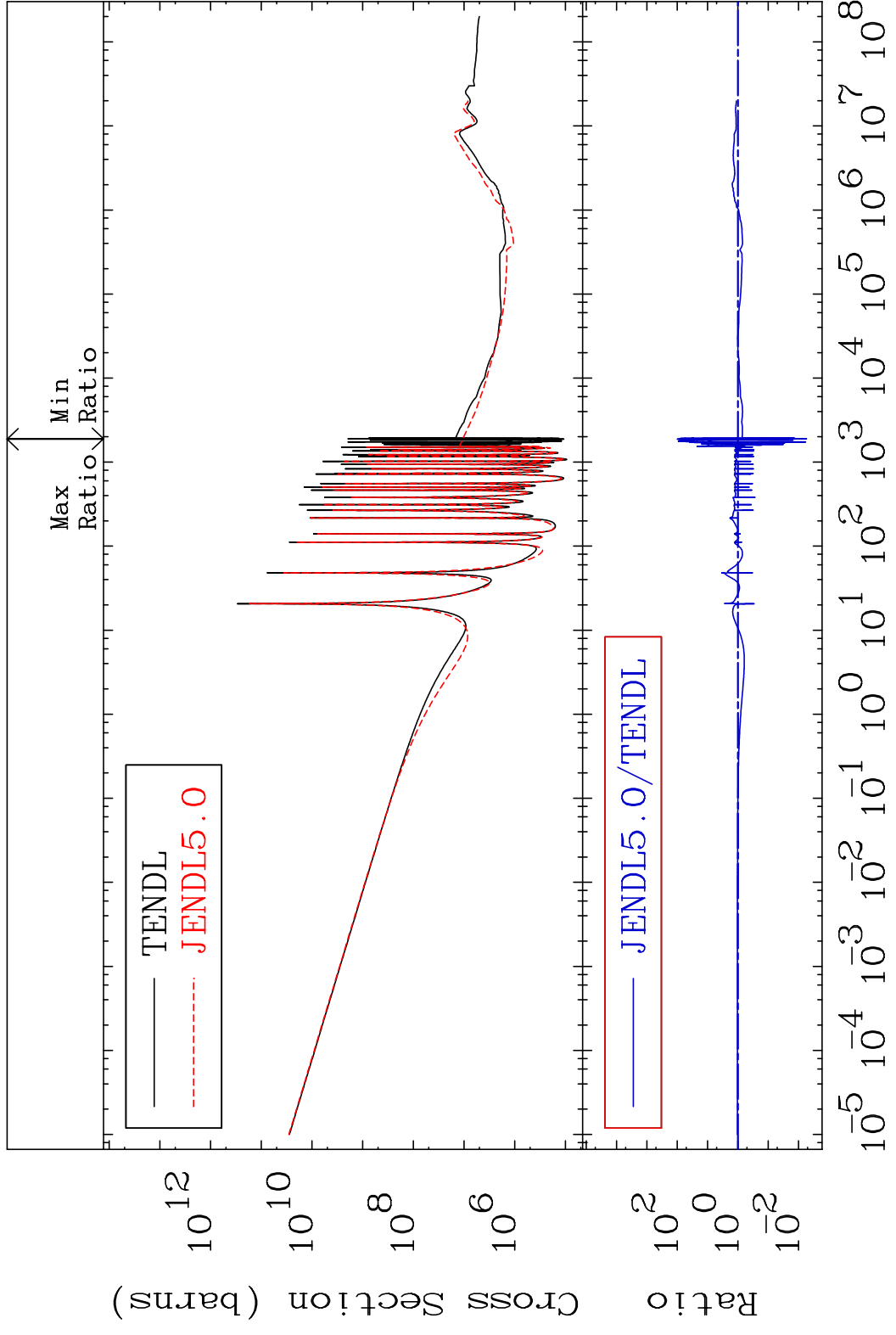
MAT 6243

Kerma capture (mt102) 62-Sm-150
Cross Section -99.39 To 9999. %



MAT 6243

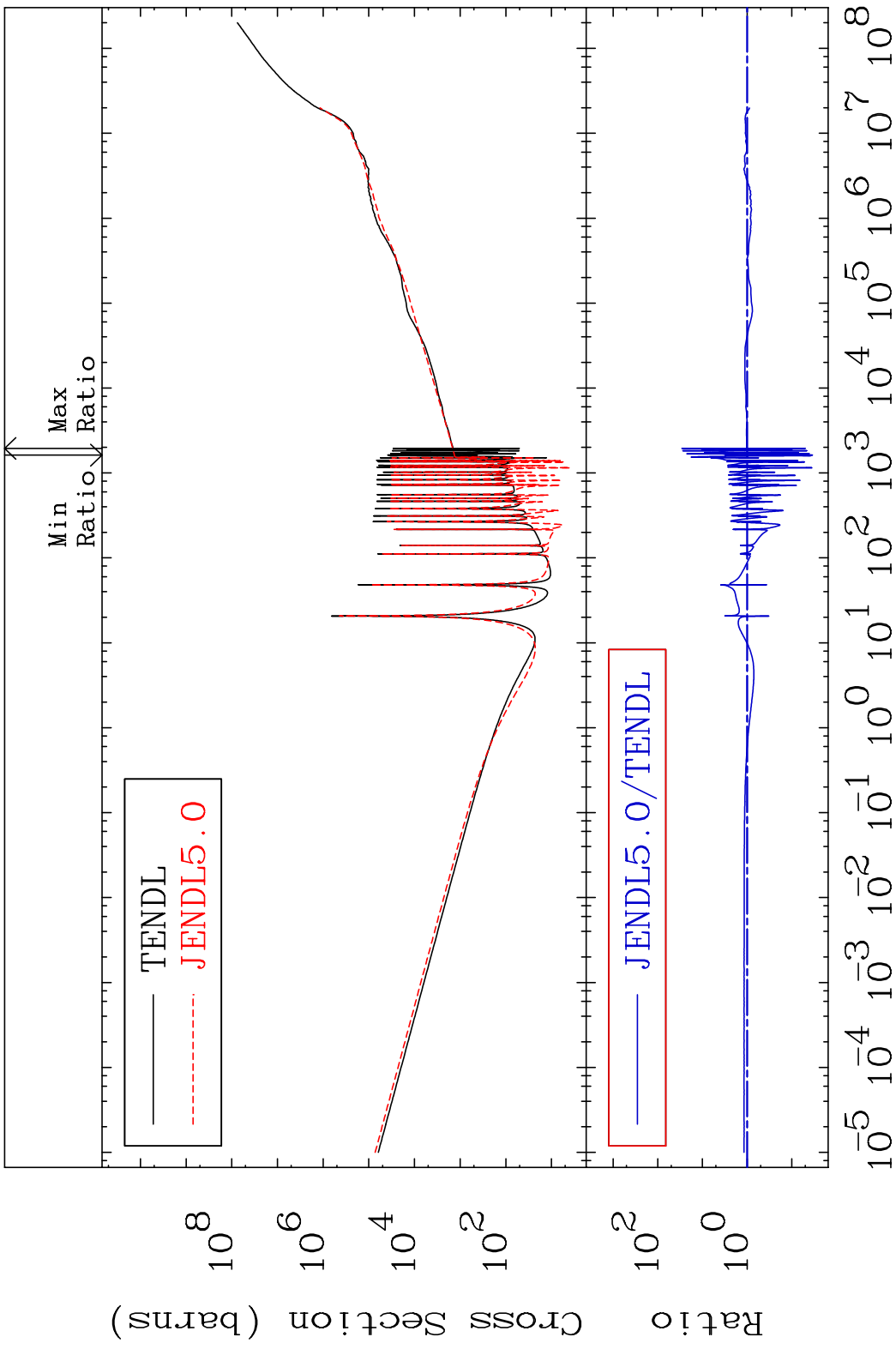
Total photon (eV-barns) 62-Sm-150
Cross Section -99.45 To 9866. %



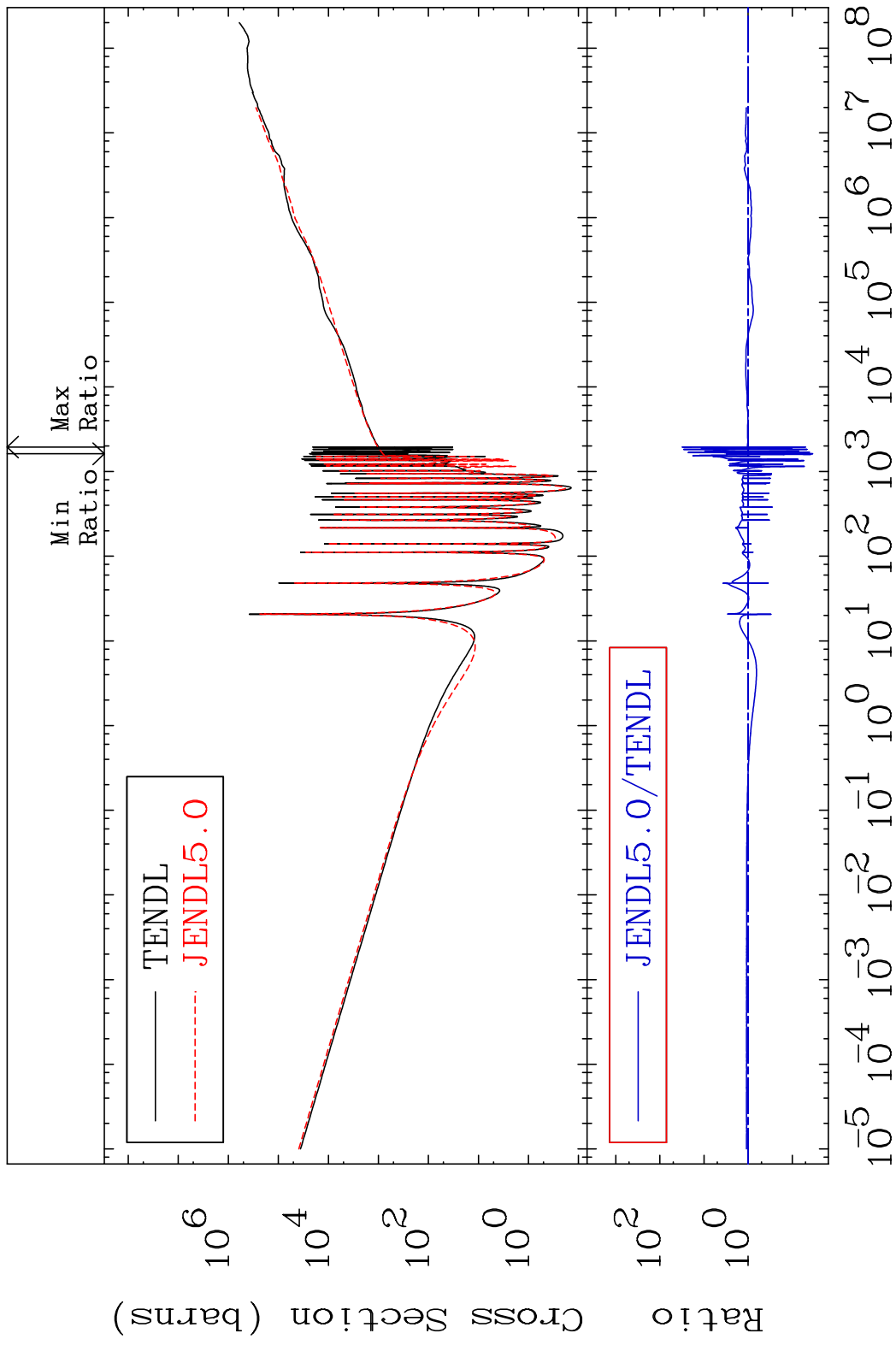
59

Incident Energy (eV) 62-Sm-150

MAT 6243 Total kinematic kerma (high limit) 62-Sm-150
Cross Section -96.52 To 2805. %

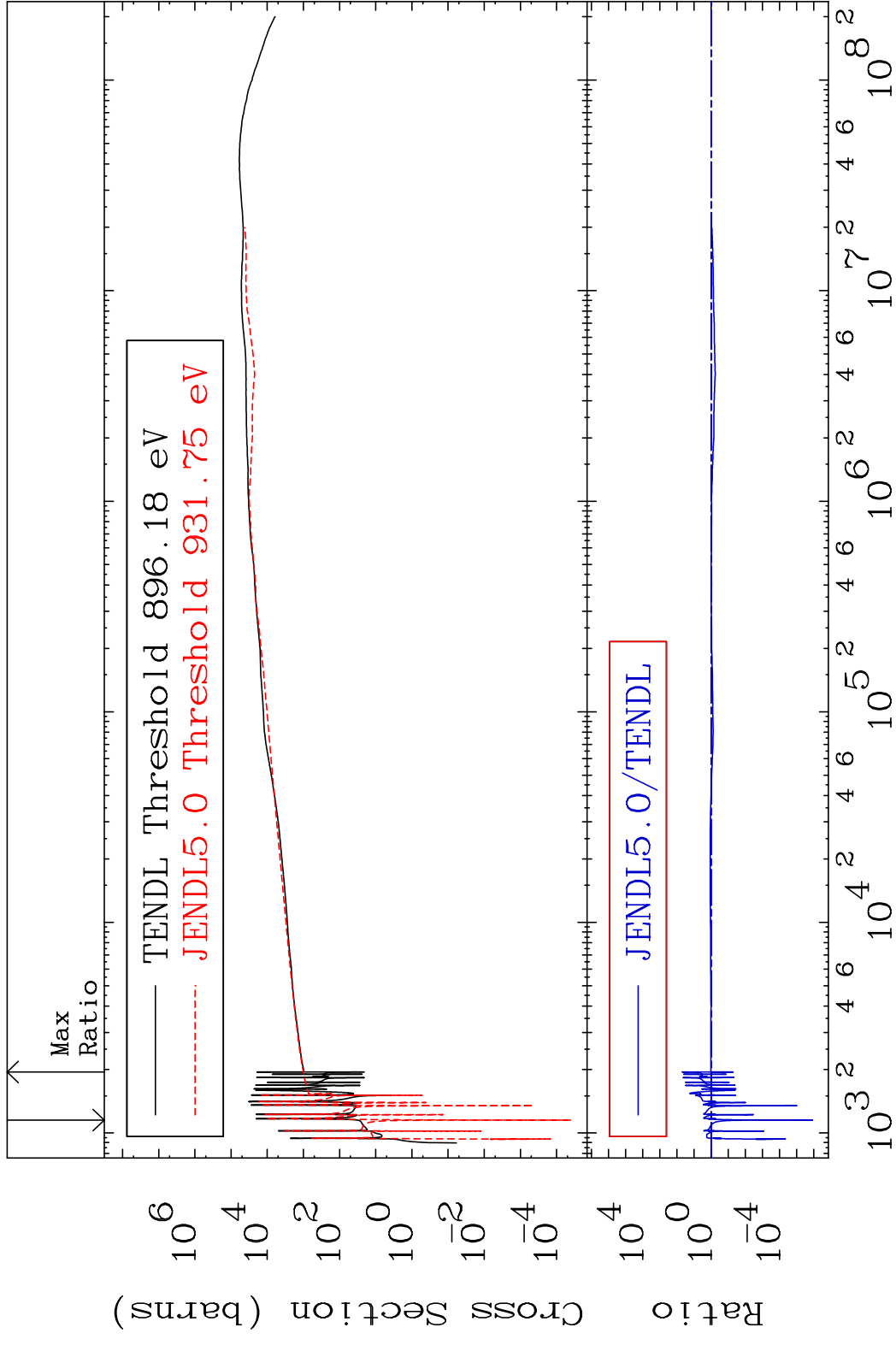


MAT 6243 Dpa total (eV-barns) 62-Sm-150
 Cross Section -96.53 To 2998. %



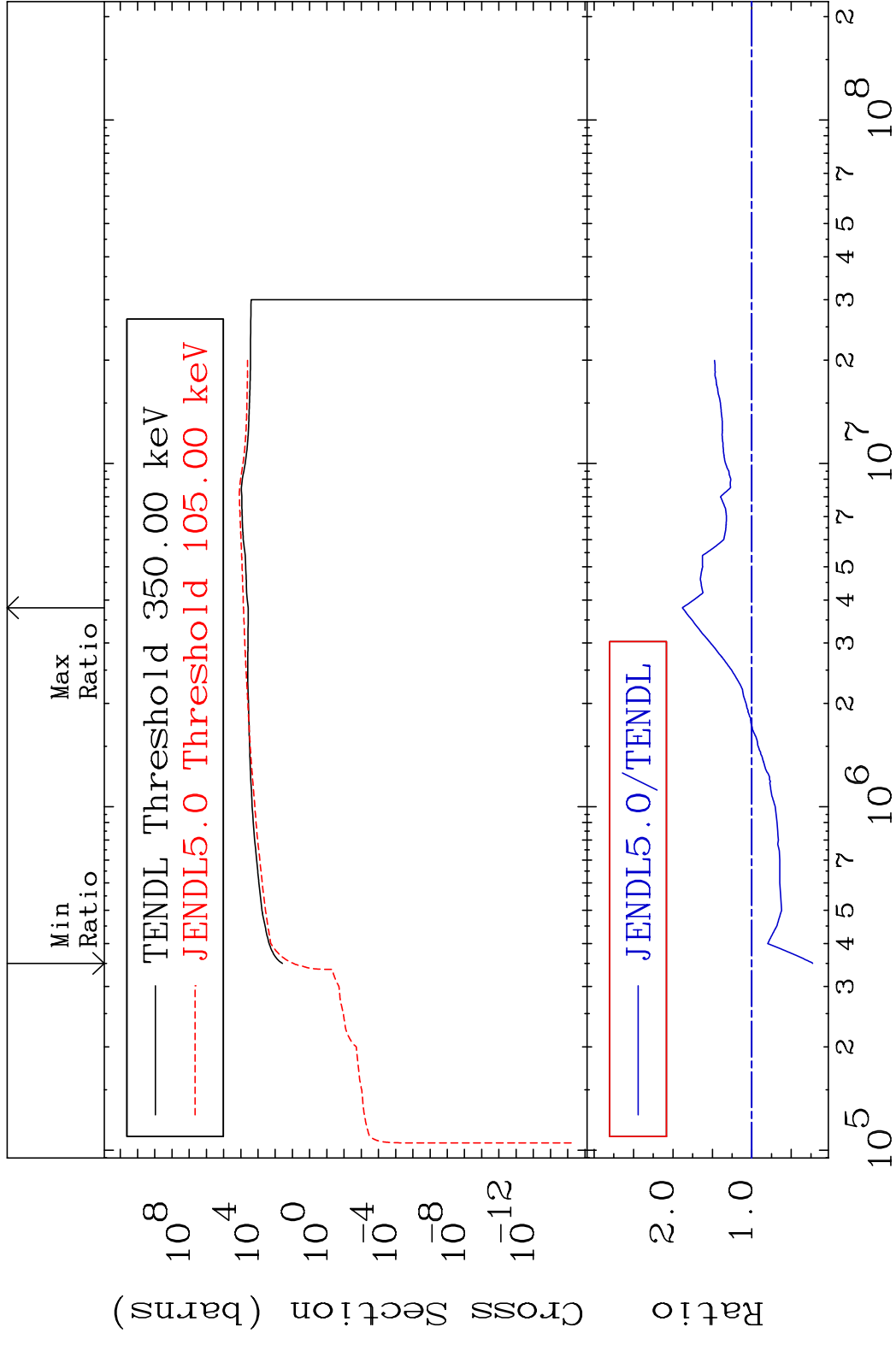
61 Incident Energy (eV) 62-Sm-150

MAT 6243 Dpa elastic (mt2) 62-Sm-150
 Cross Section -100.0 To 4703. %



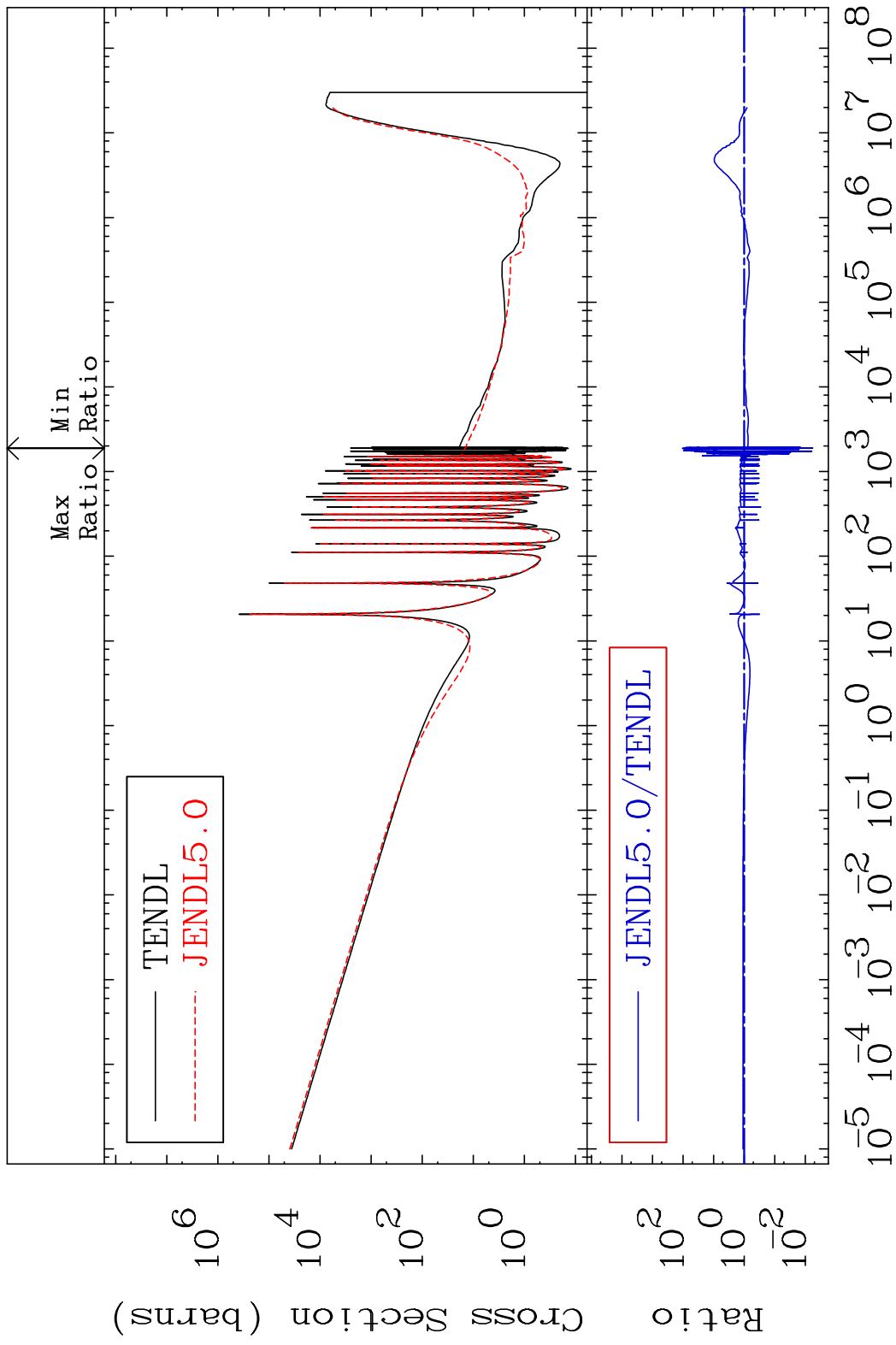
62 Incident Energy (eV) 62-Sm-150

MAT 6243 Dpa inelastic (mt51-91) 62-Sm-150
 Cross Section -77.06 To 88.10 %

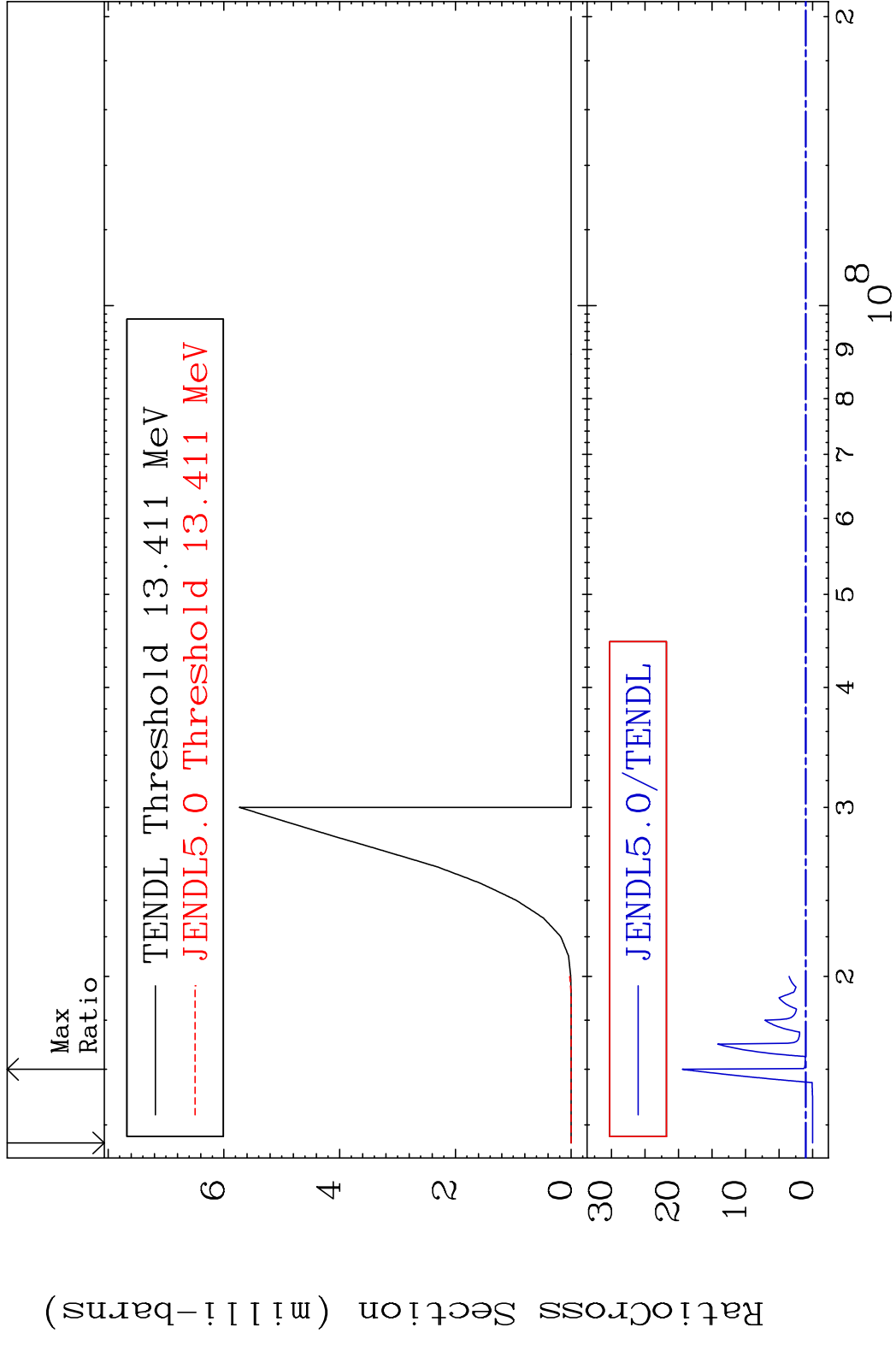


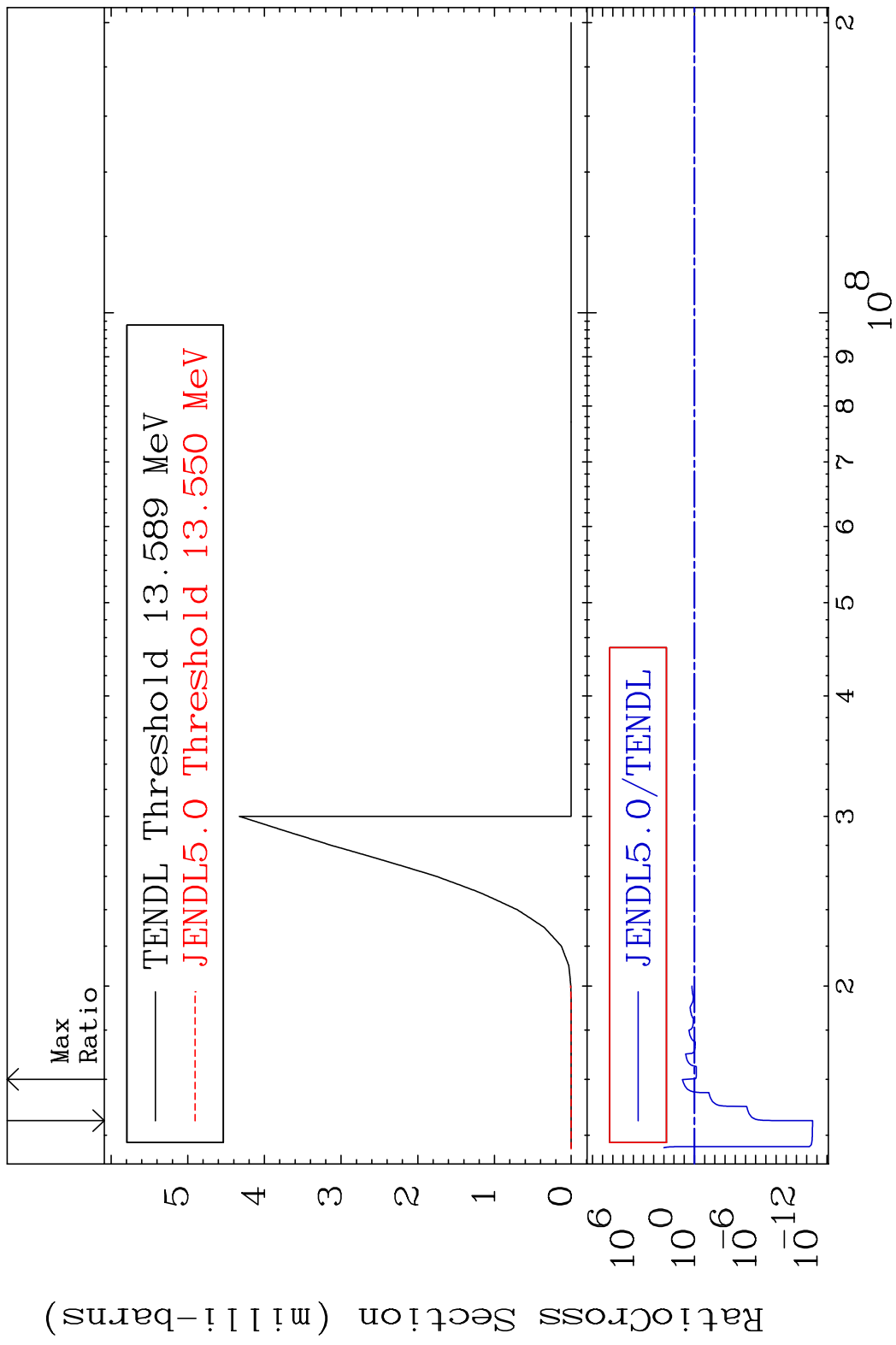
63 Incident Energy (eV) 62-Sm-150

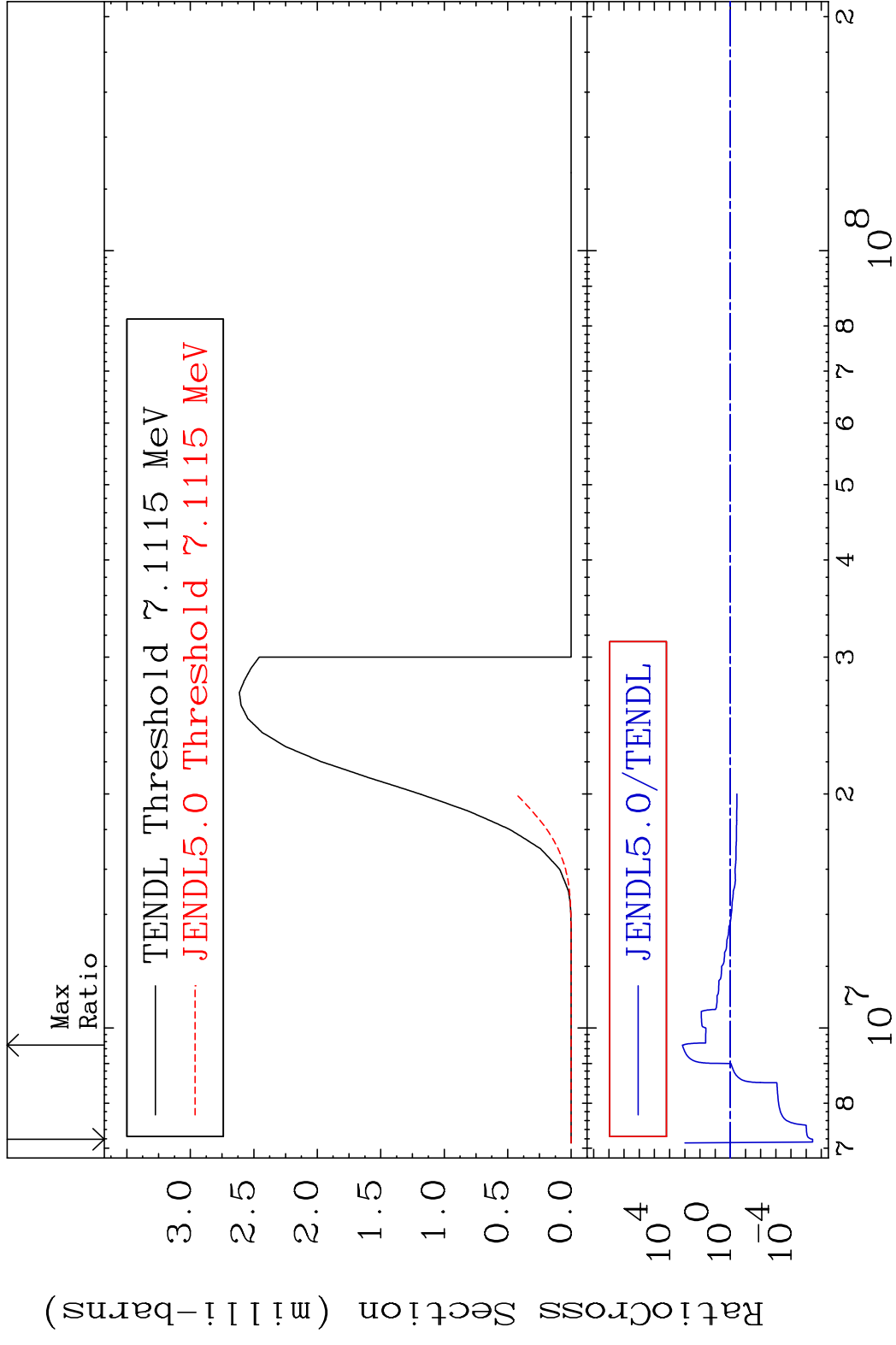
MAT 6243 Dpa disappearance (mt102 -120) 62-Sm-150
 Cross Section -99.42 To 9999. %



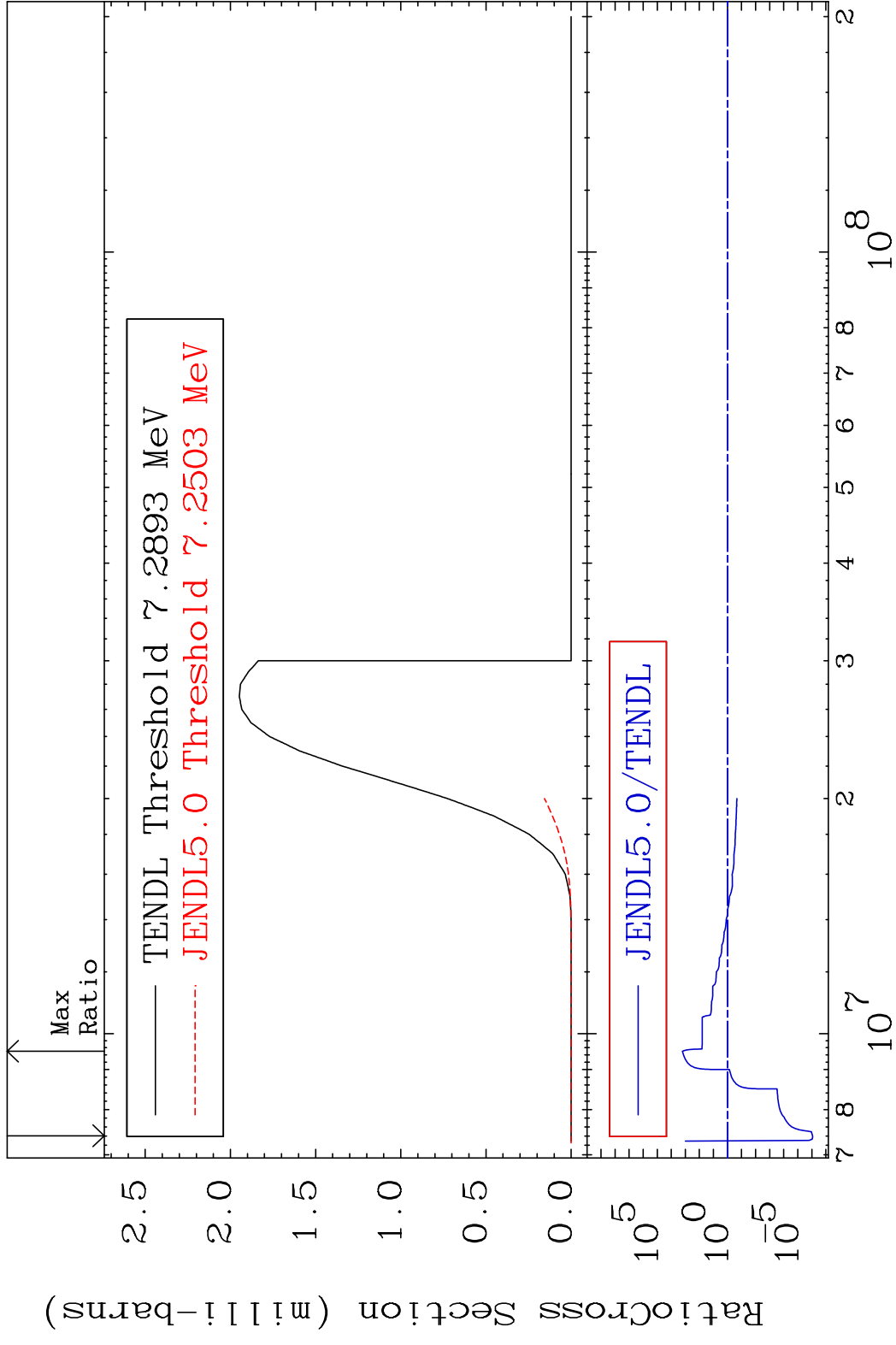
MAT 6243 (n, n') d:61-Pm-148g 62-Sm-150
 Radionuclide Production Cross Section 1842. %



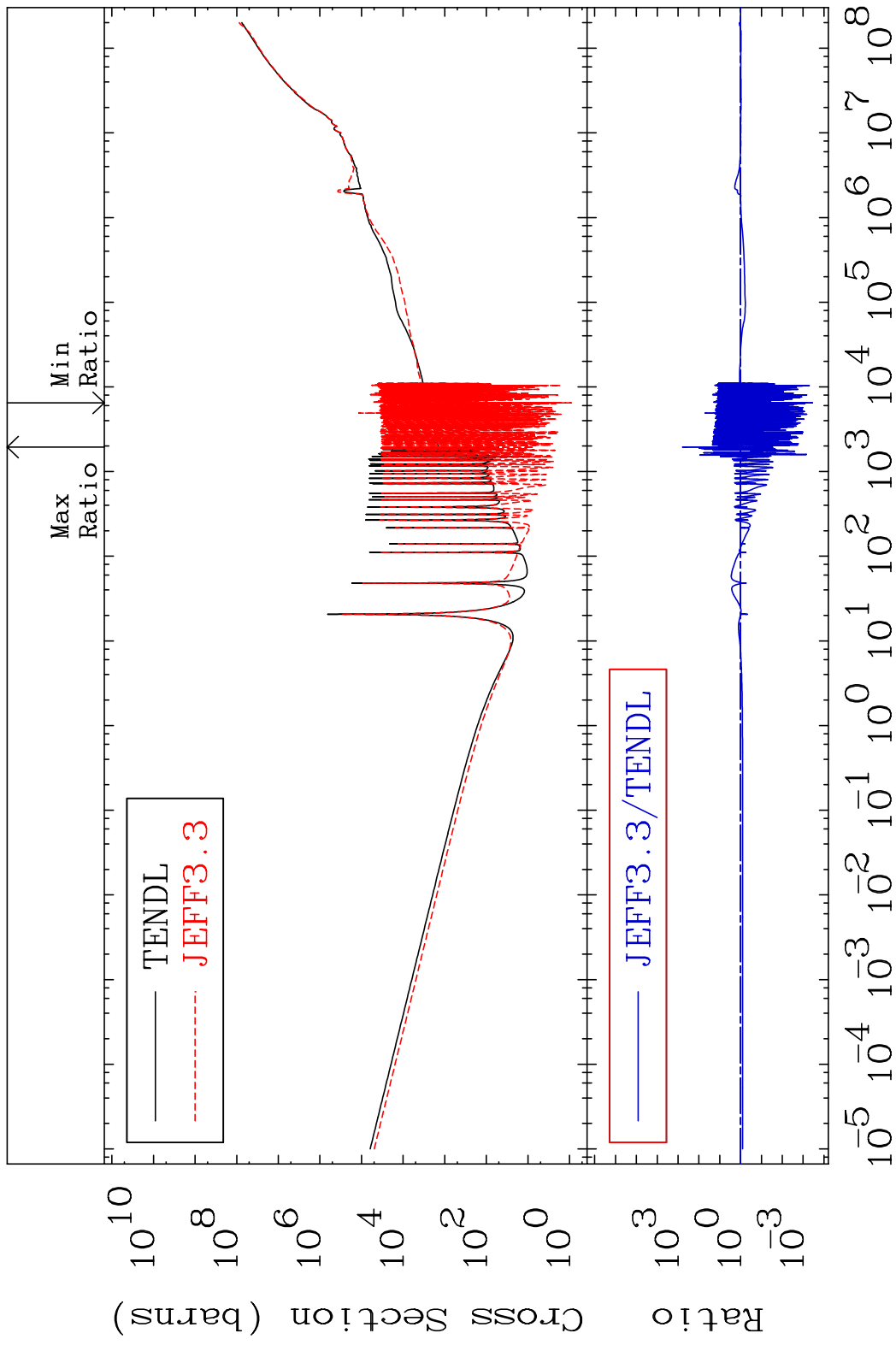




MAT 6243 (n, t):61-Pm-148m3 62-Sm-150
 Radionuclide Production Cross Section Ratio 9999. %

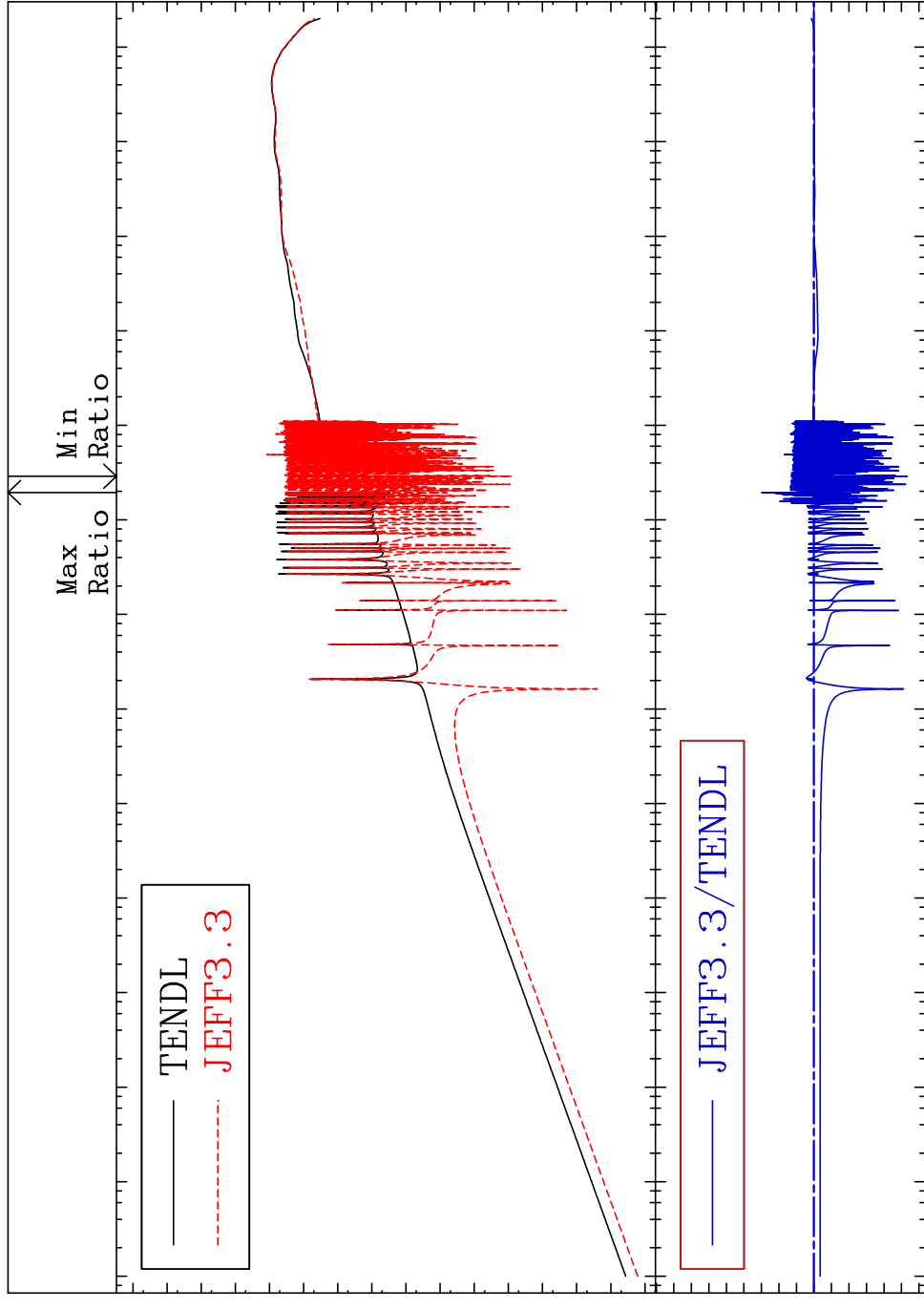


MAT 6243 Kerma total (eV-barns) 62-Sm-150
 Cross Section -99.96 To 9999. %



MAT 6243

Kerma elastic Cross Section -100.0 To 9999. %
62-Sm-150

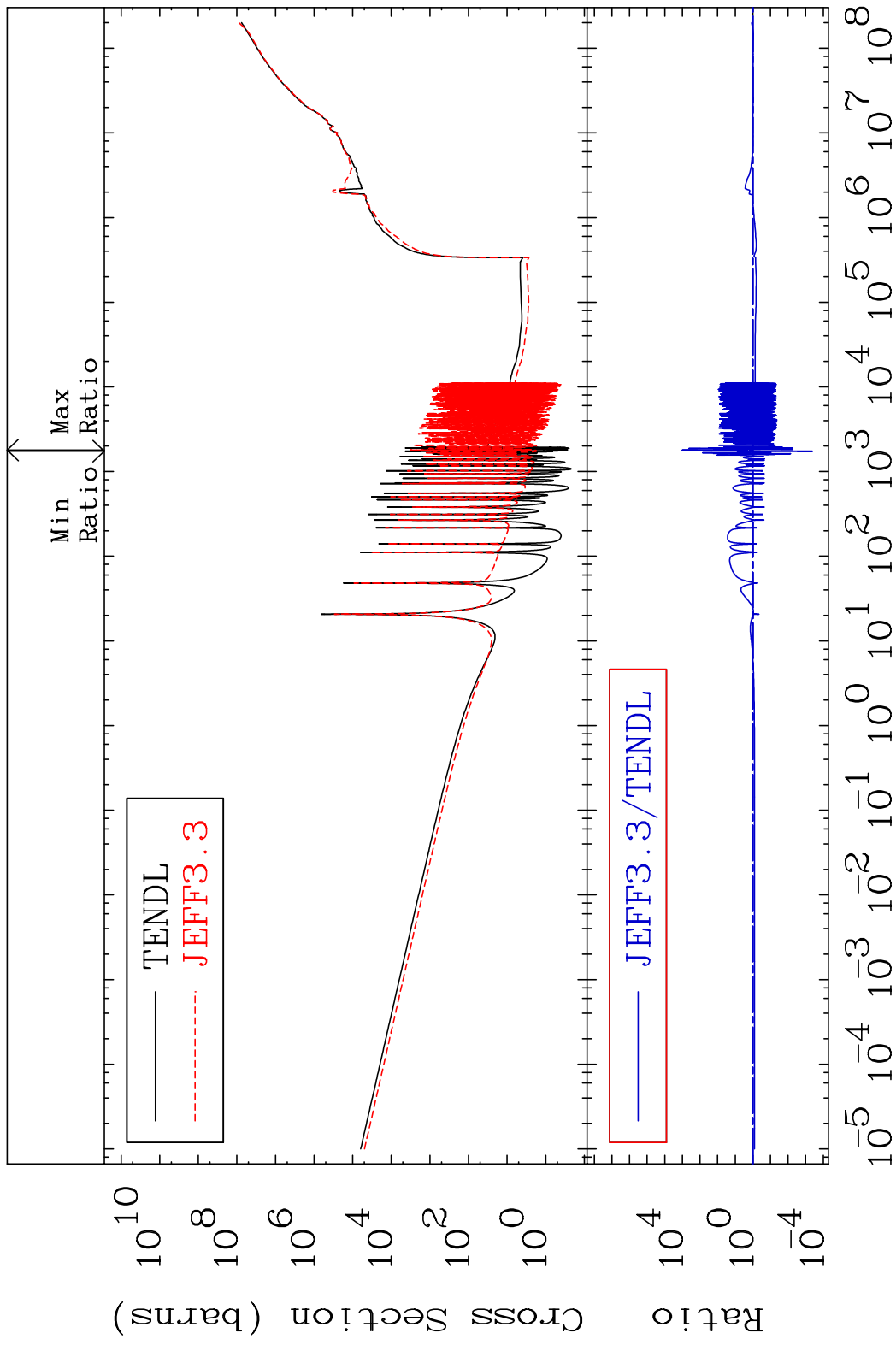


Cross Section (barns)
Ratio

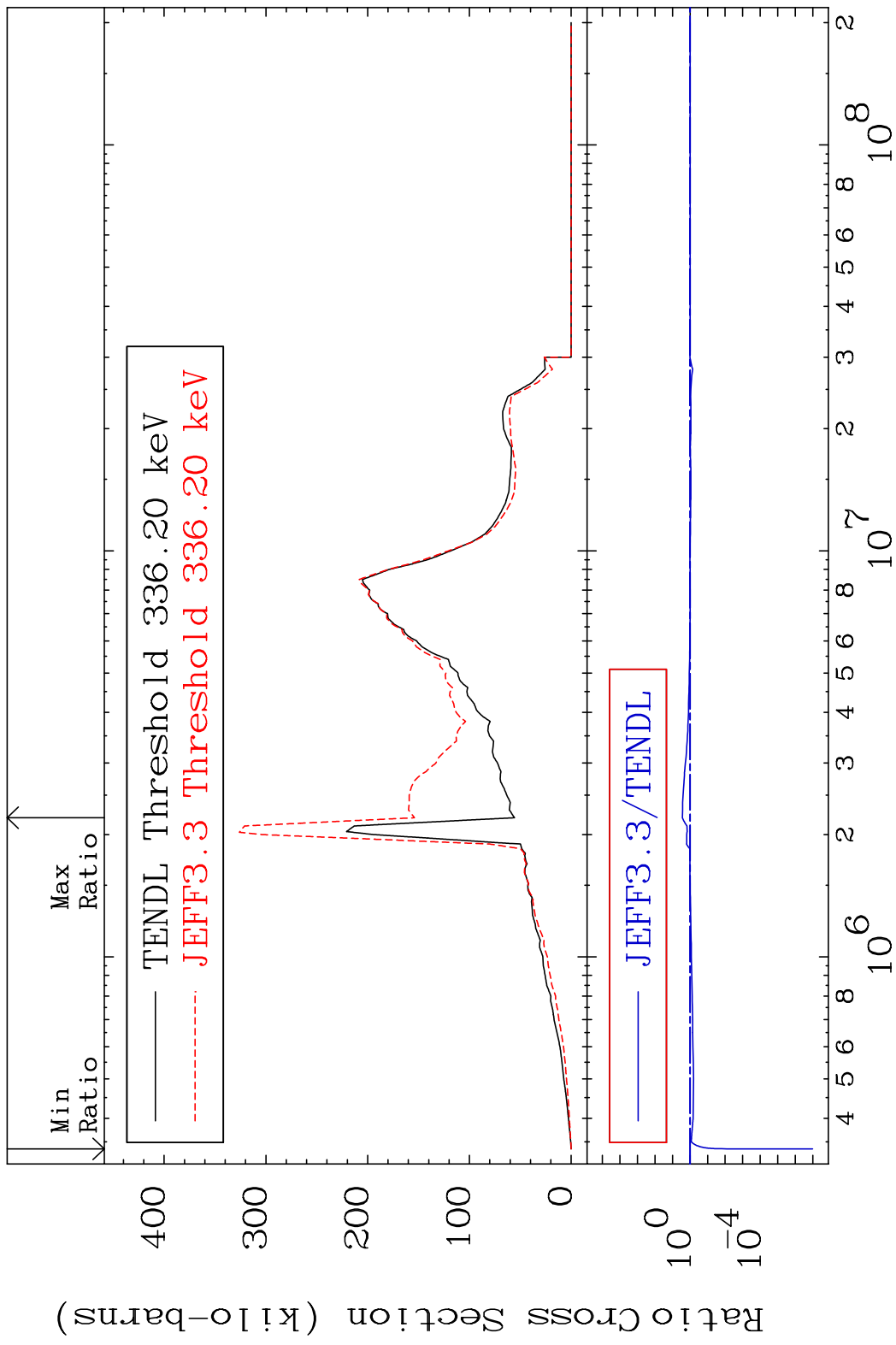
Incident Energy (eV)

70 62-Sm-150

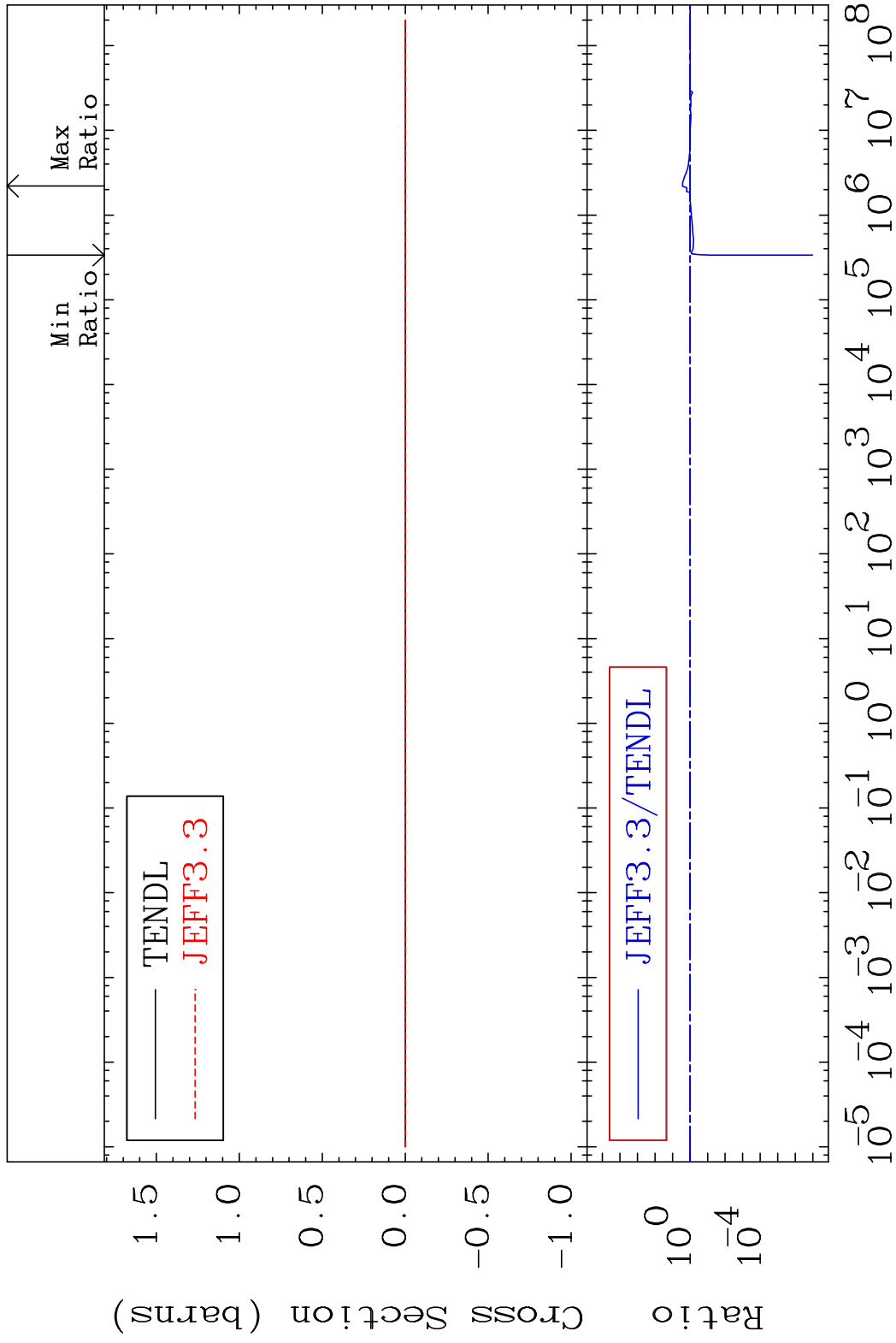
MAT 6243 Kerma non-elastic (all but mt2) 62-Sm-150
 Cross Section -99.96 To 9999. %



MAT 6243 Kerma inelastic (mt51-91) 62-Sm-150
 Cross Section -100.0 To 176.1 %

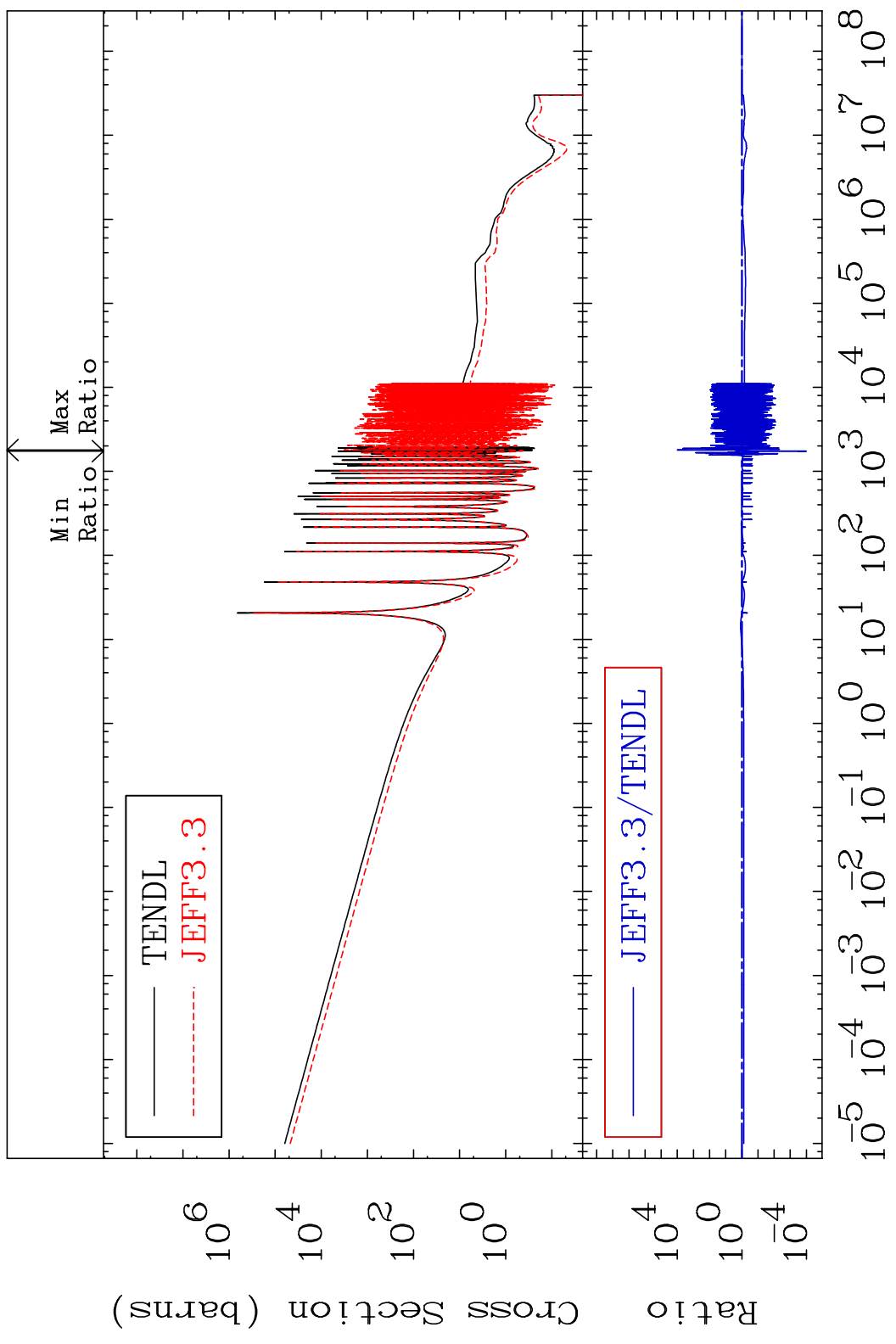


MAT 6243 Kerma fission (mt18 or mt19-20-21-38) ^{62}Sm -150
 Cross Section -100.0 To 176.1 %



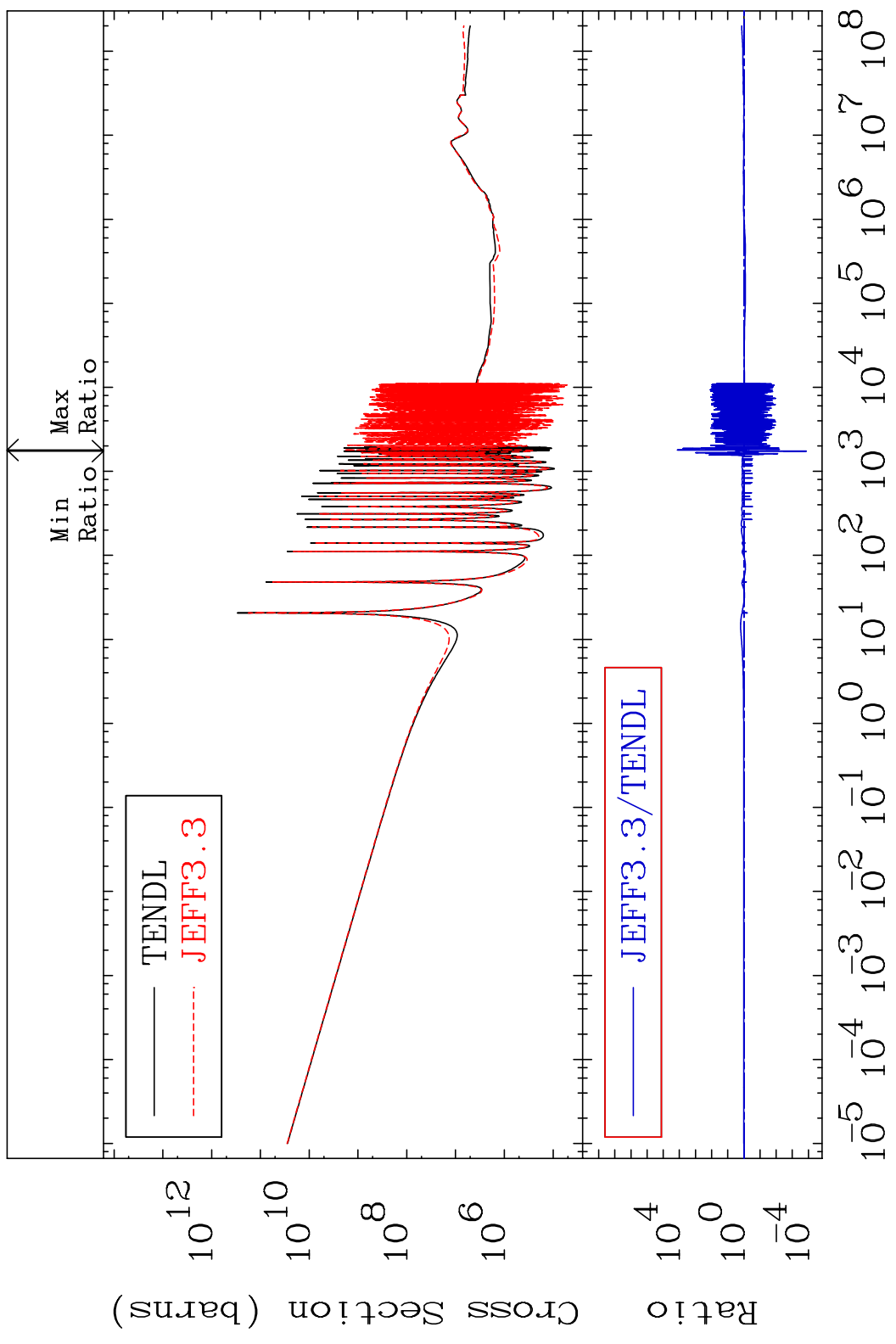
MAT 6243

Kerma capture (mt102) 62-Sm-150
Cross Section -99.99 To 9999. %



MAT 6243

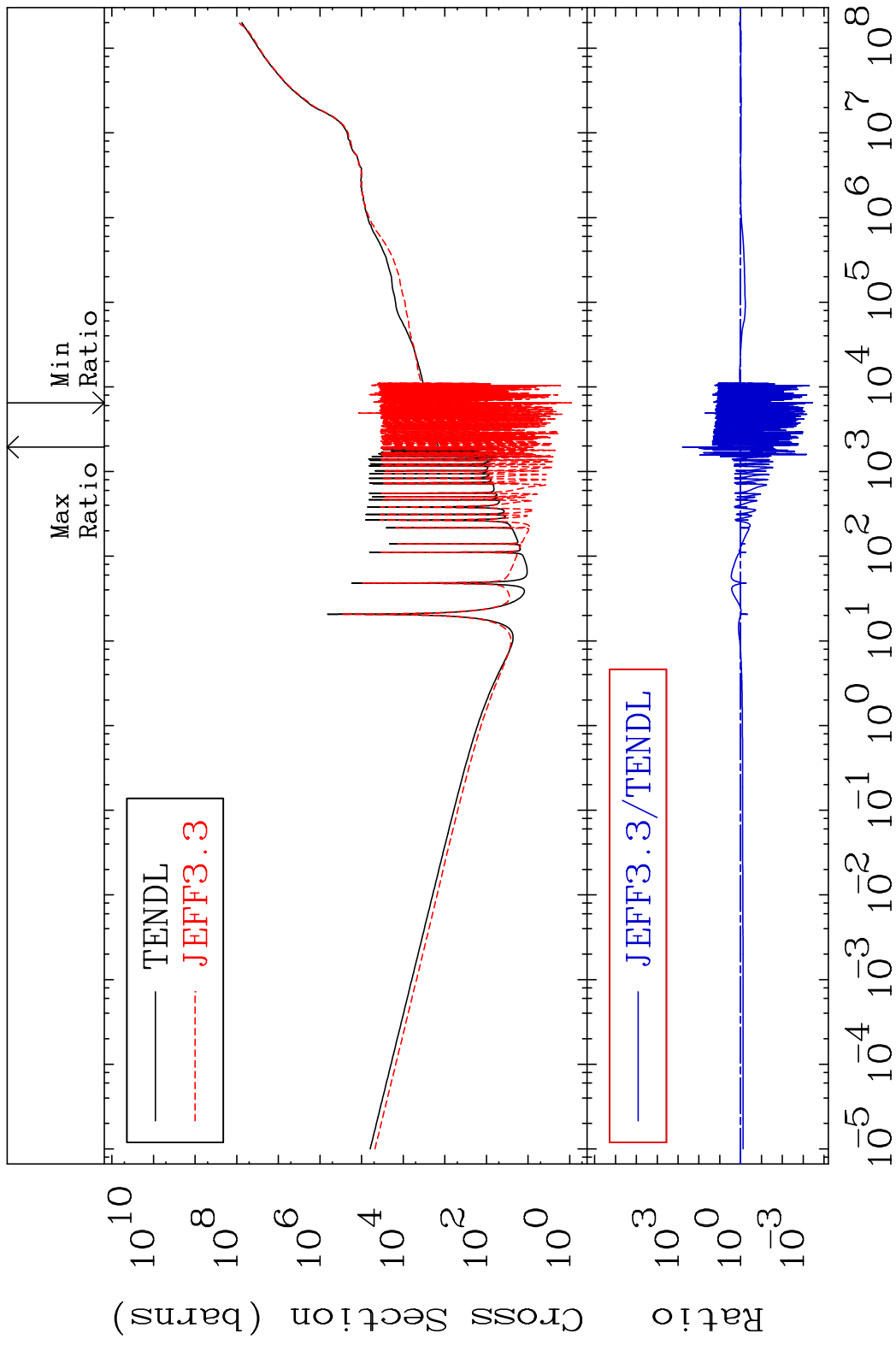
Total photon (eV-barns) 62-Sm-150
Cross Section -99.99 To 9999. %



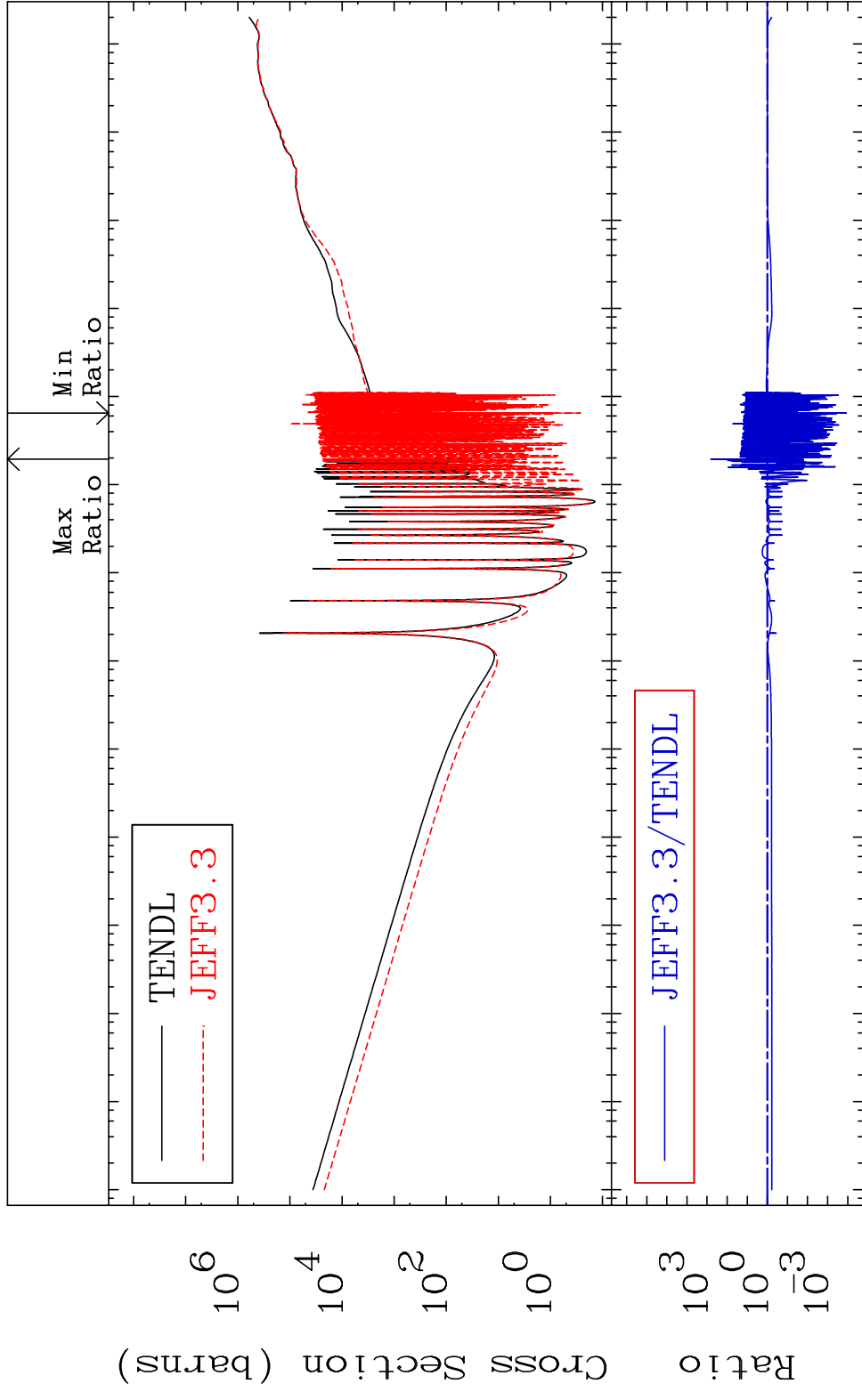
75

Incident Energy (eV) 62-Sm-150

MAT 6243 Total kinematic kerma (high limit) 62-Sm-150
 Cross Section -99.96 To 9999. %



MAT 6243 Dpa total (eV-barns) 62-Sm-150
 Cross Section -99.99 To 9999. %



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

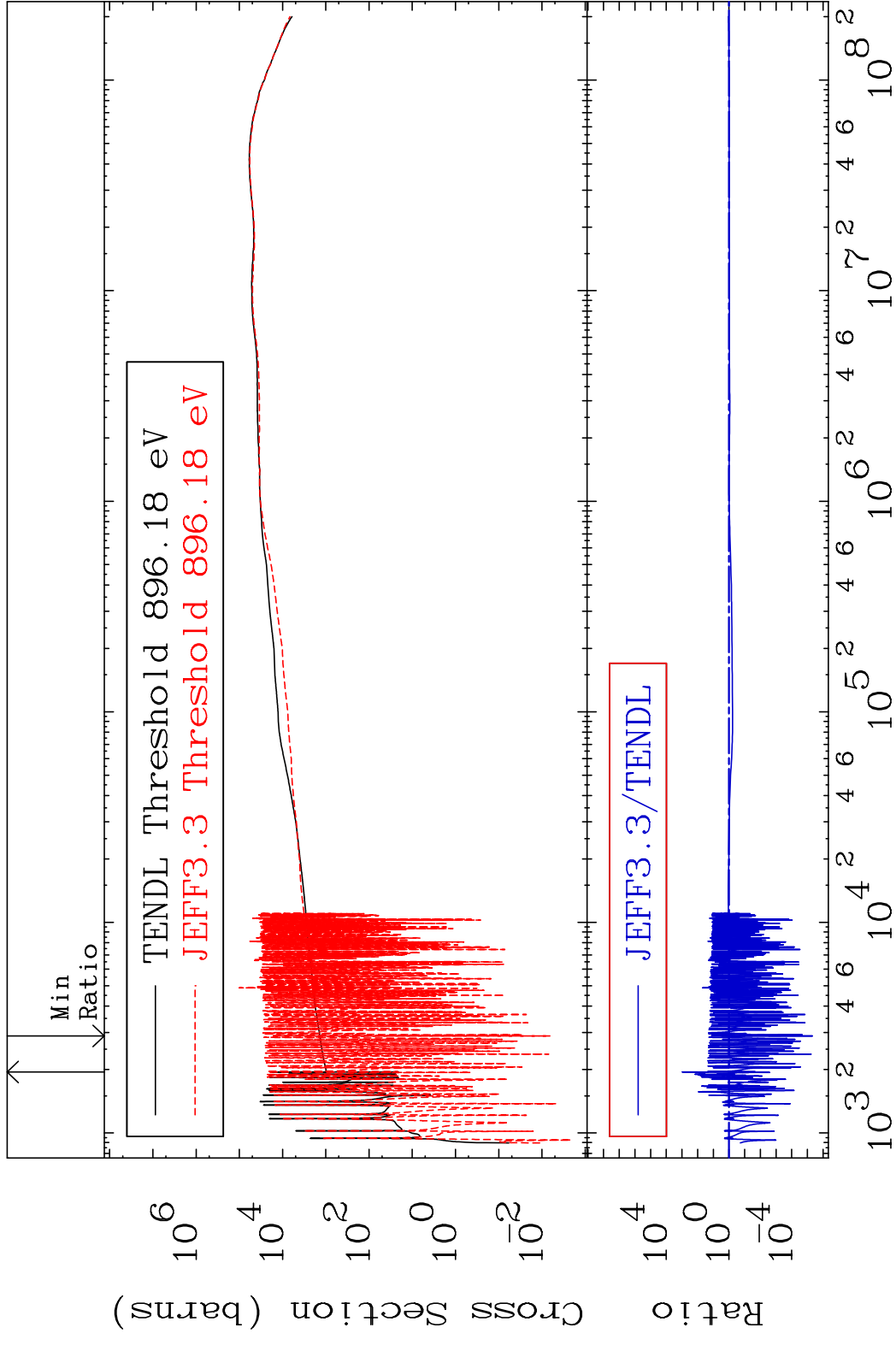
77 Incident Energy (eV) 62-Sm-150

MAT 6243

Dpa elastic (mt2)

62-Sm-150

Cross Section -100.0 To 9999. %

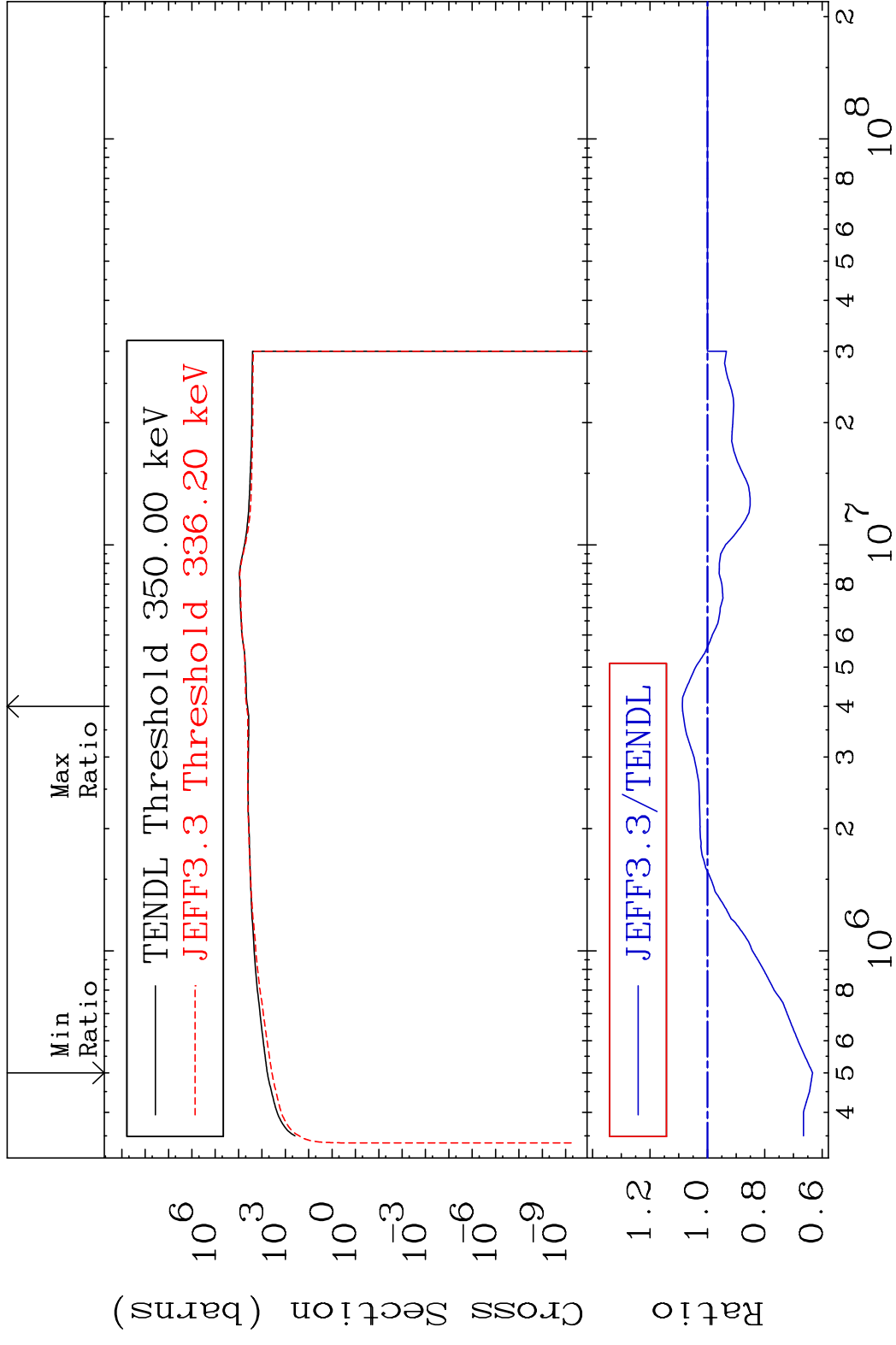


78

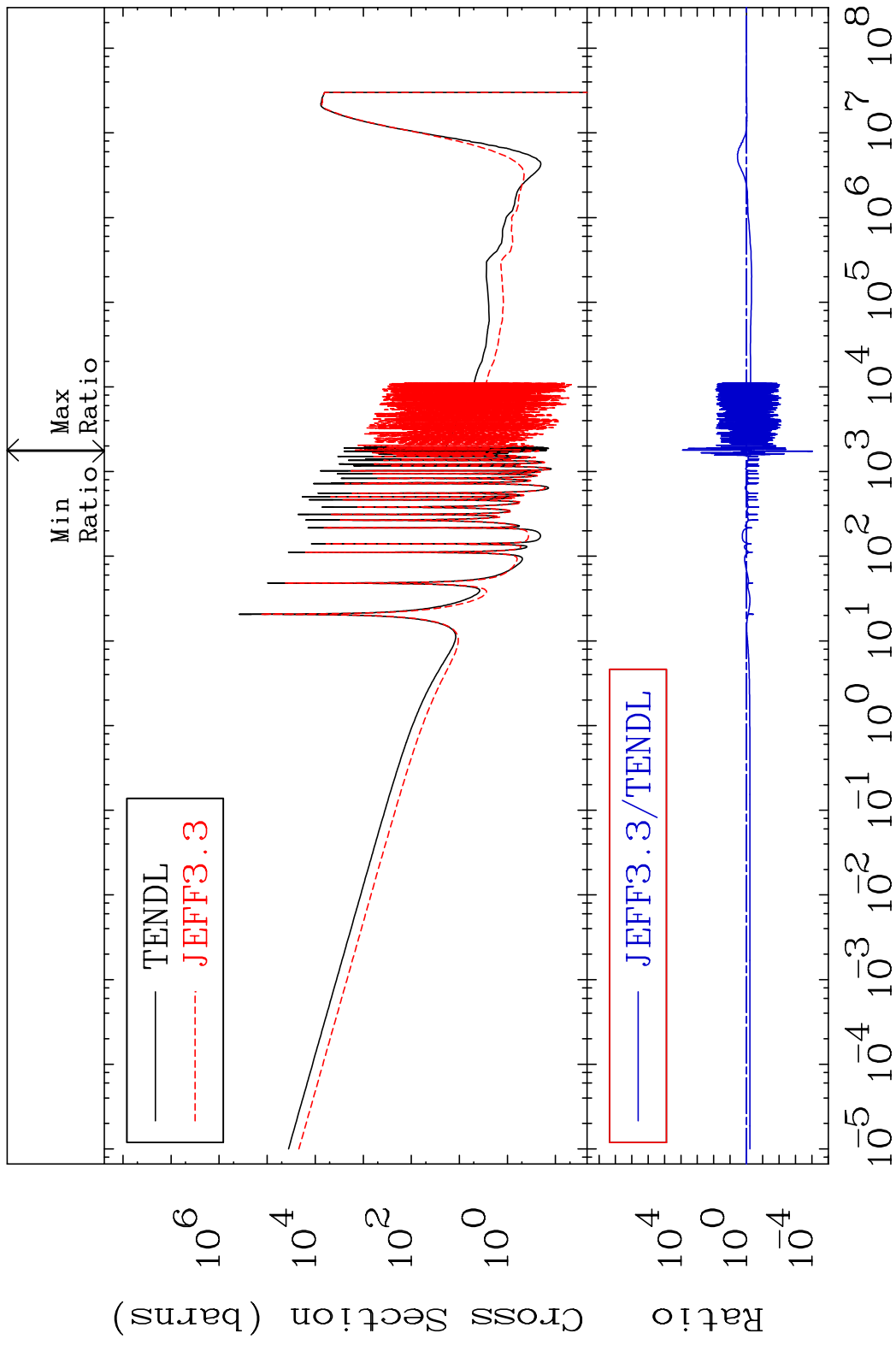
Incident Energy (eV)

62-Sm-150

MAT 6243 Dpa inelastic (mt51-91) 62-Sm-150
 Cross Section -36.64 To 8.722 %



MAT 6243 Dpa disappearance (mt102 -120) 62-Sm-150
 Cross Section -99.99 To 9999. %



80 Incident Energy (eV) 62-Sm-150

MAT 6243 (n, n') d:61-Pm-148g 62-Sm-150
 Radionuclide Production Cross Section to 507.4 %

