

Program Complot
(Version 2018-1)

by

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(Present Contact Information)

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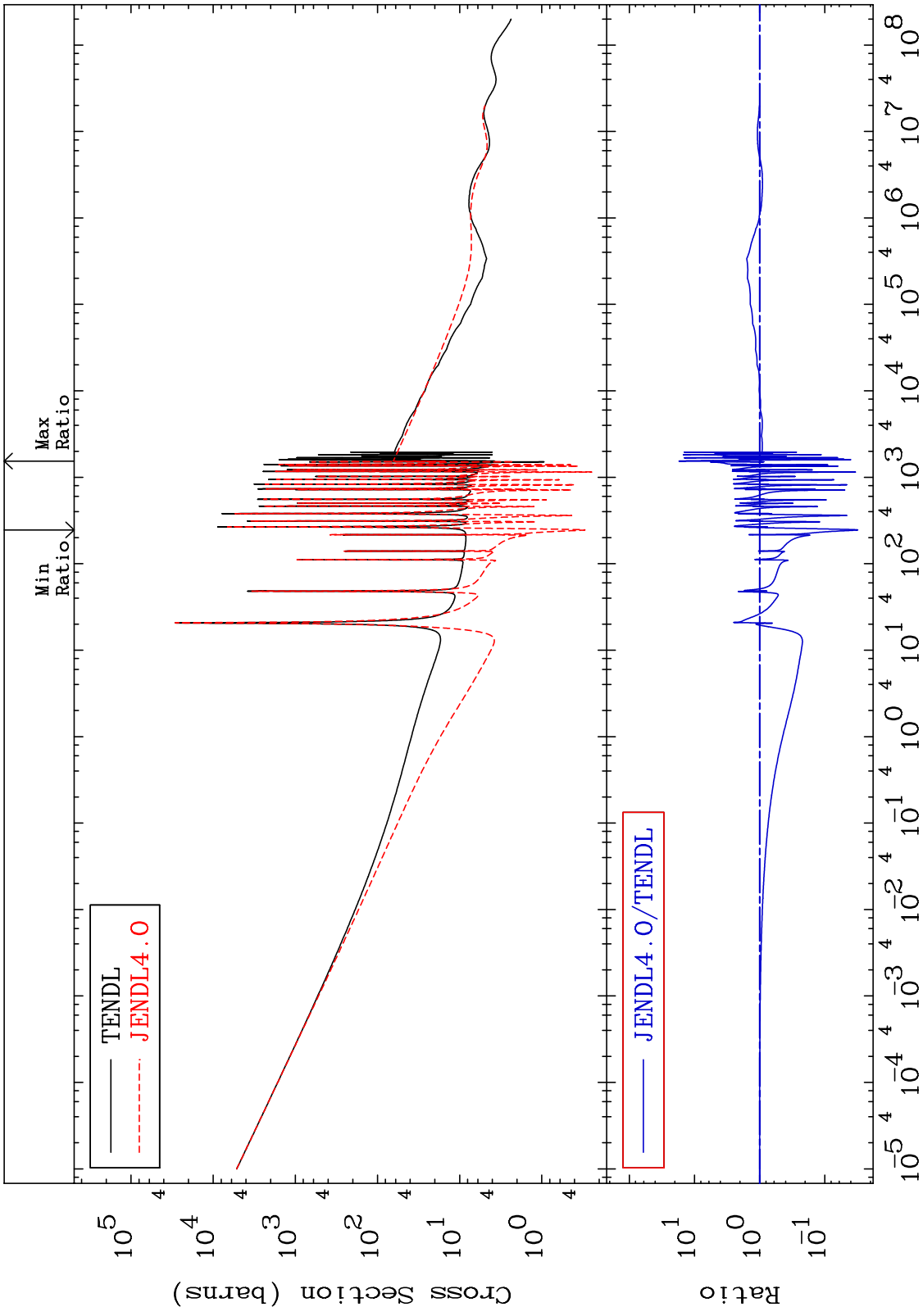
U.S.A.

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Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6243 Total Cross Section 62-Sm-150 -96.89 To 1623. %



1 Incident Energy (eV) 62-Sm-150

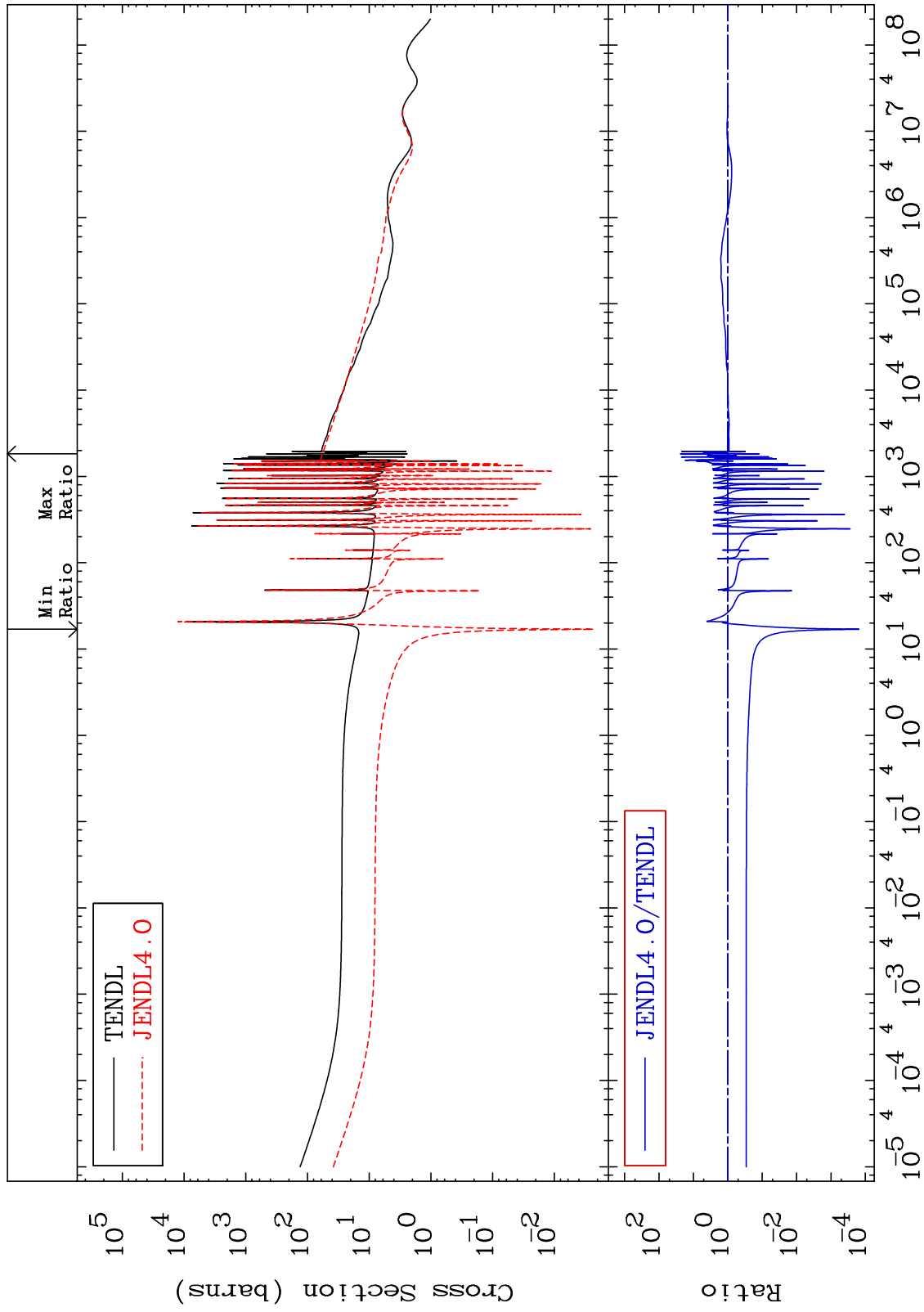
MAT 6243

Elastic

62-Sm-150

Cross Section

-99.98 To 2248. %



2

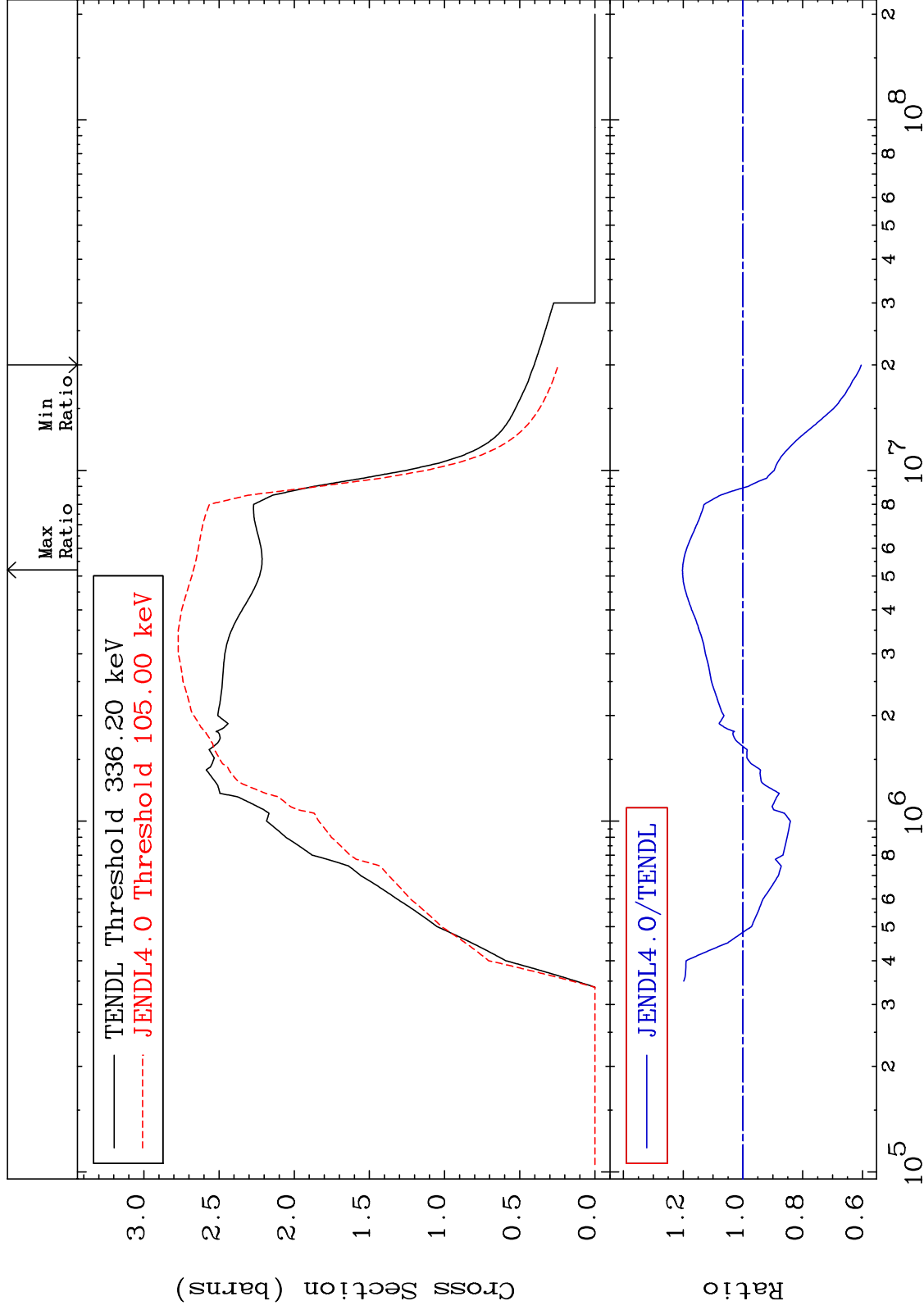
Incident Energy (eV)

62-Sm-150

MAT 6243

Inelastic
Cross Section

62-Sm-150
-39.61 To 20.25 %

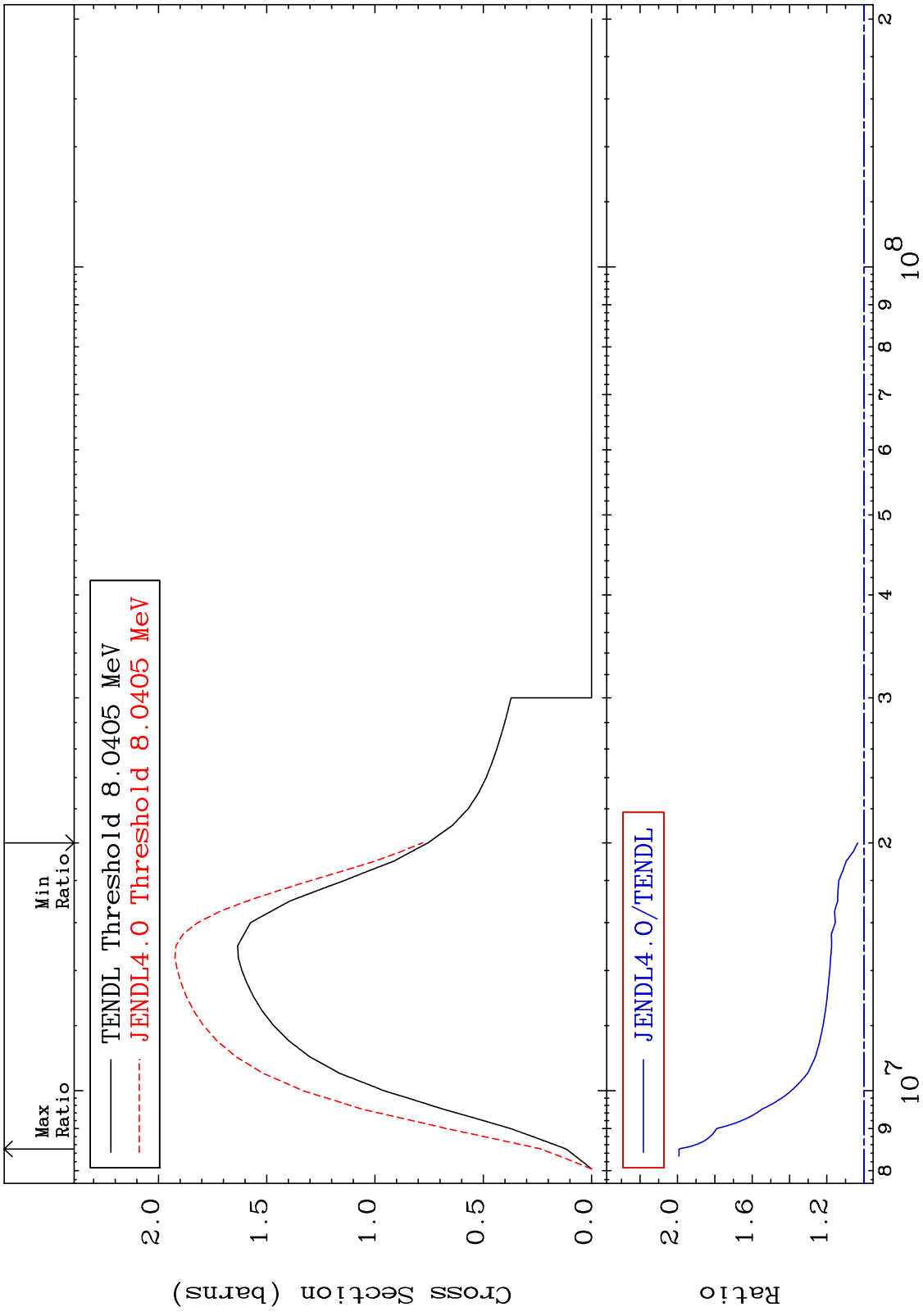


Incident Energy (eV)

62-Sm-150

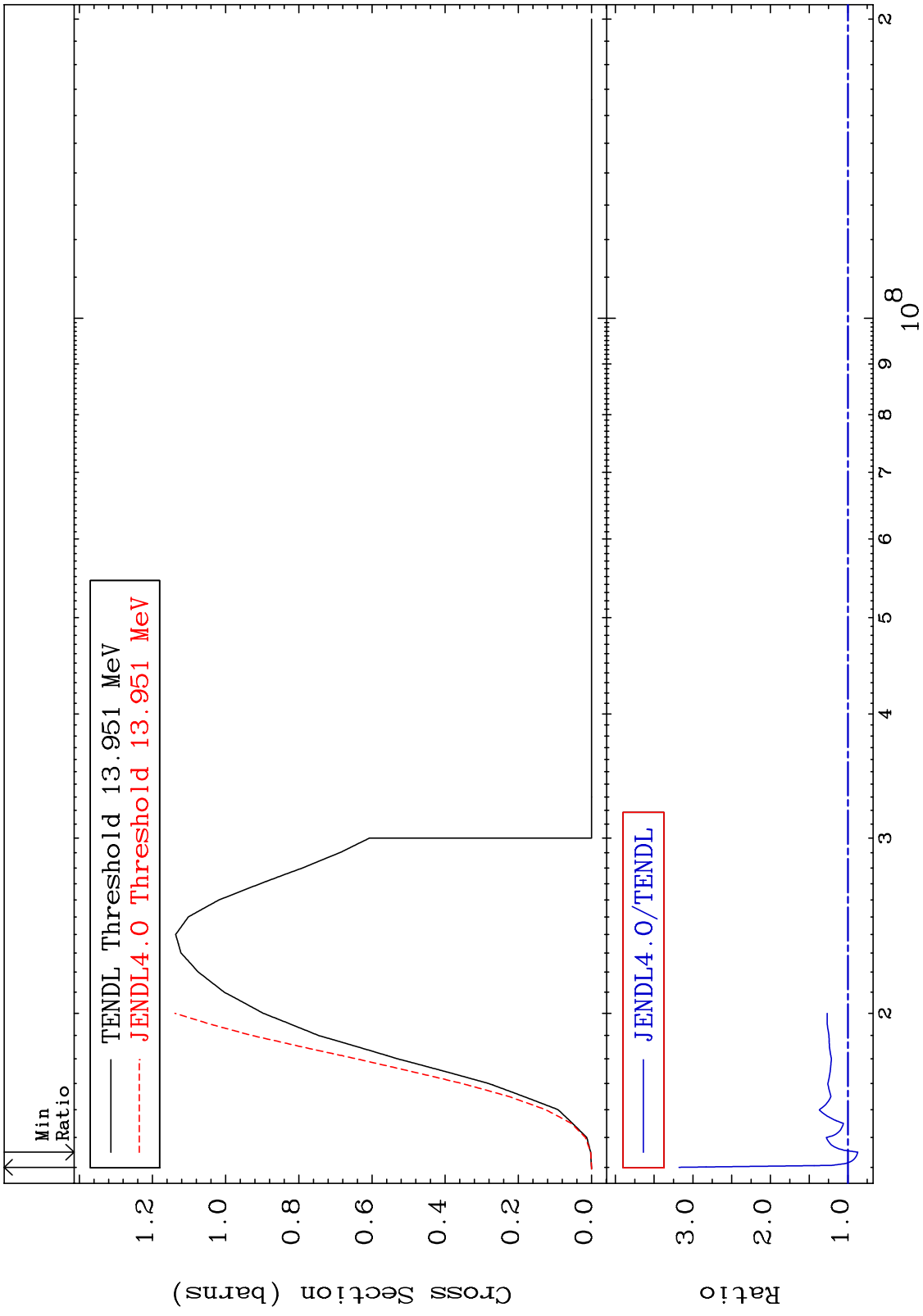
3

MAT 6243 (n,2n) Cross Section 62-Sm-150 To 99.13 %
 3.402



62-Sm-150

MAT 6243 (n,3n) Cross Section 62-Sm-150 -12.80 To 217.9 %



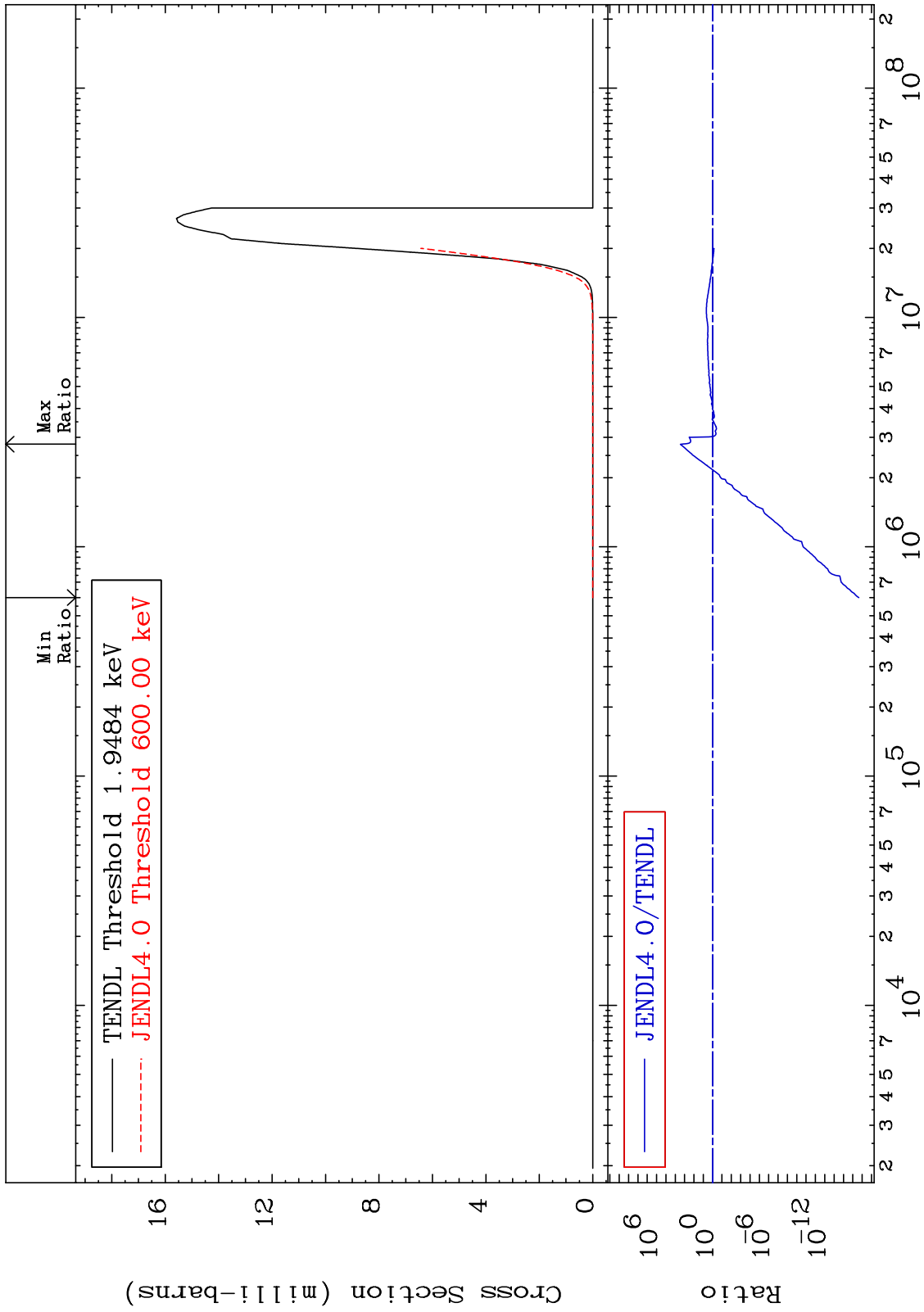
MAT 6243

(n,n') α

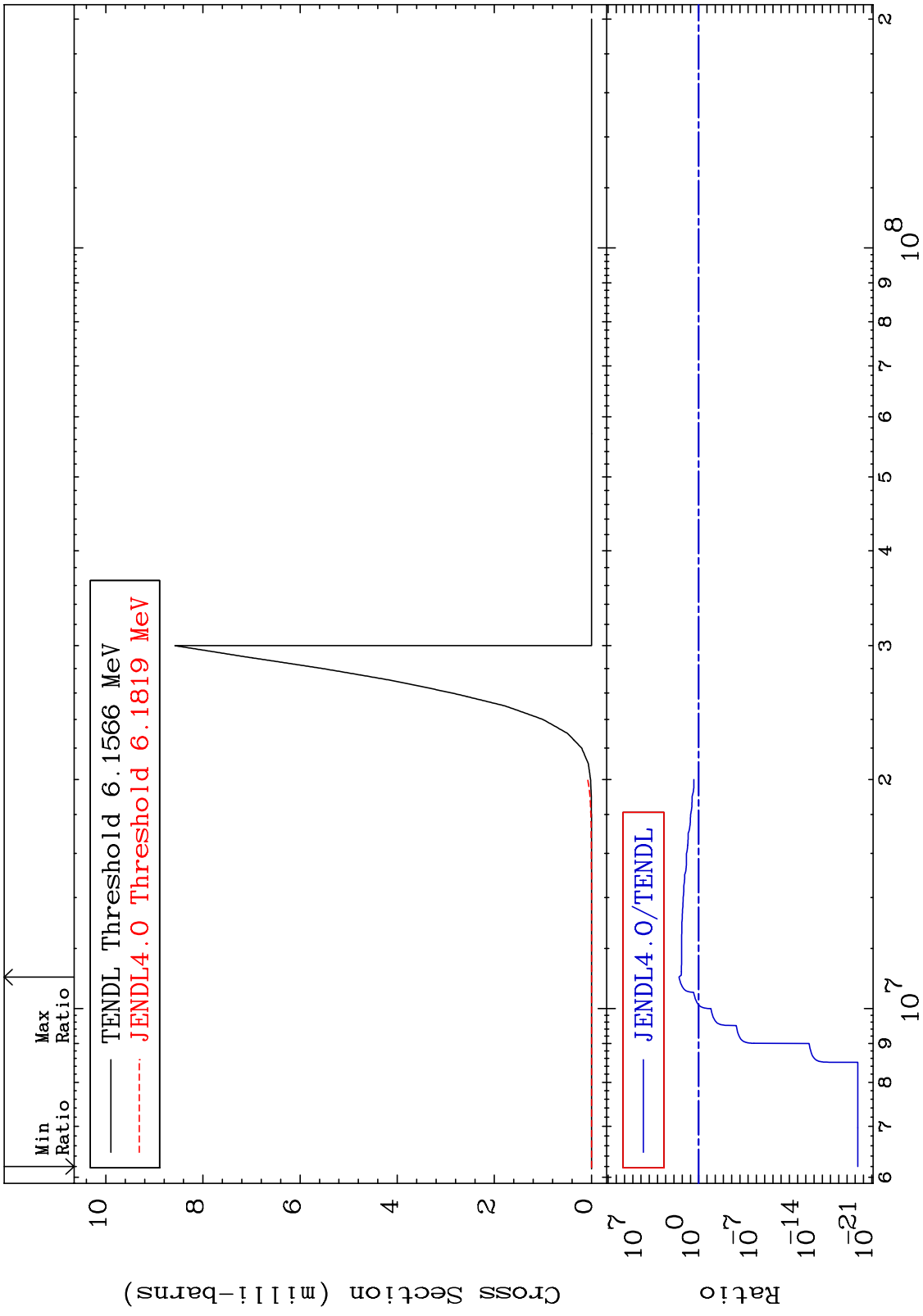
62-Sm-150

-100.0 To 9999. %

Cross Section

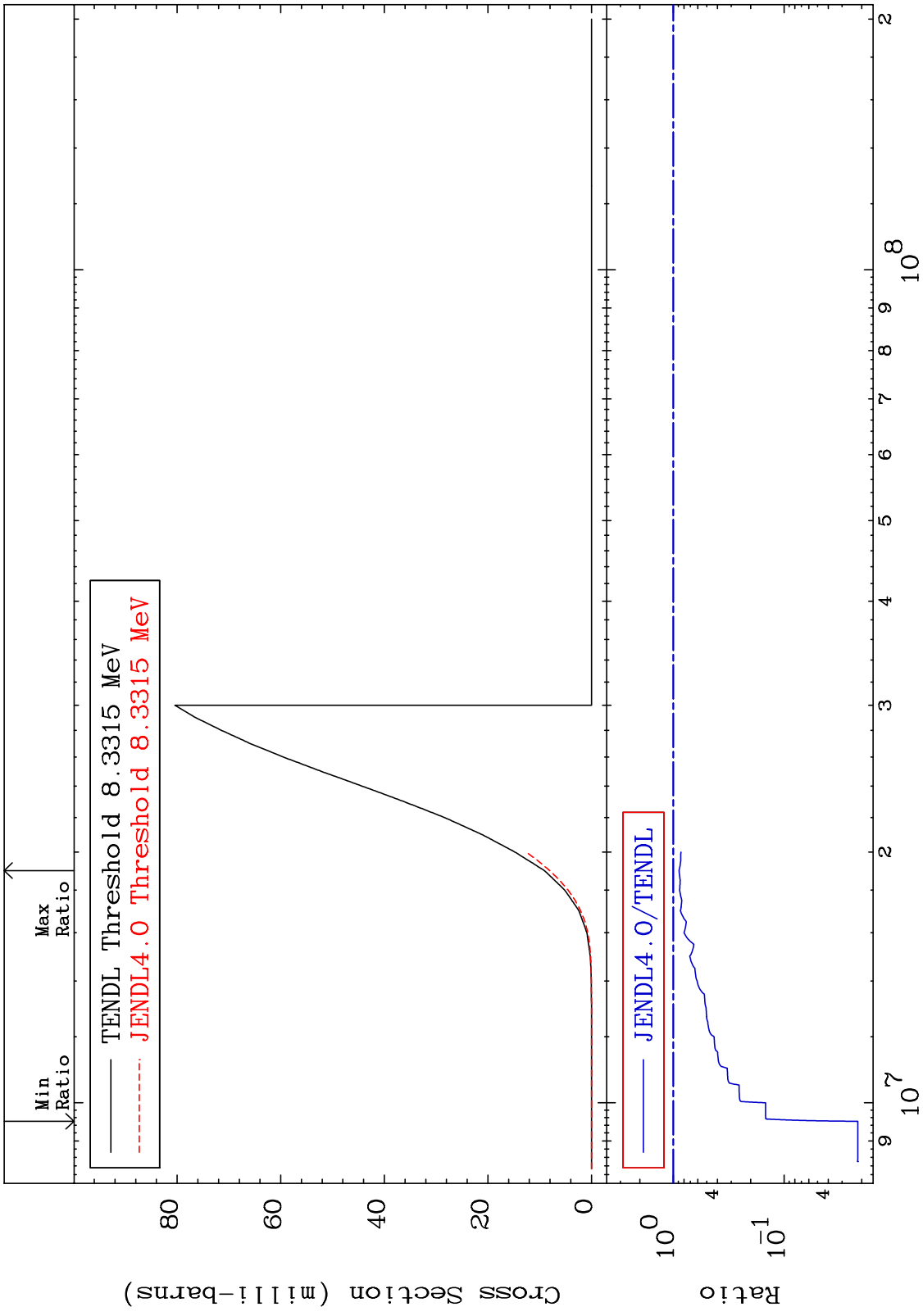


MAT 6243 $(n, 2n) \alpha$ 62-Sm-150
 Cross Section -100.0 To 9999. %



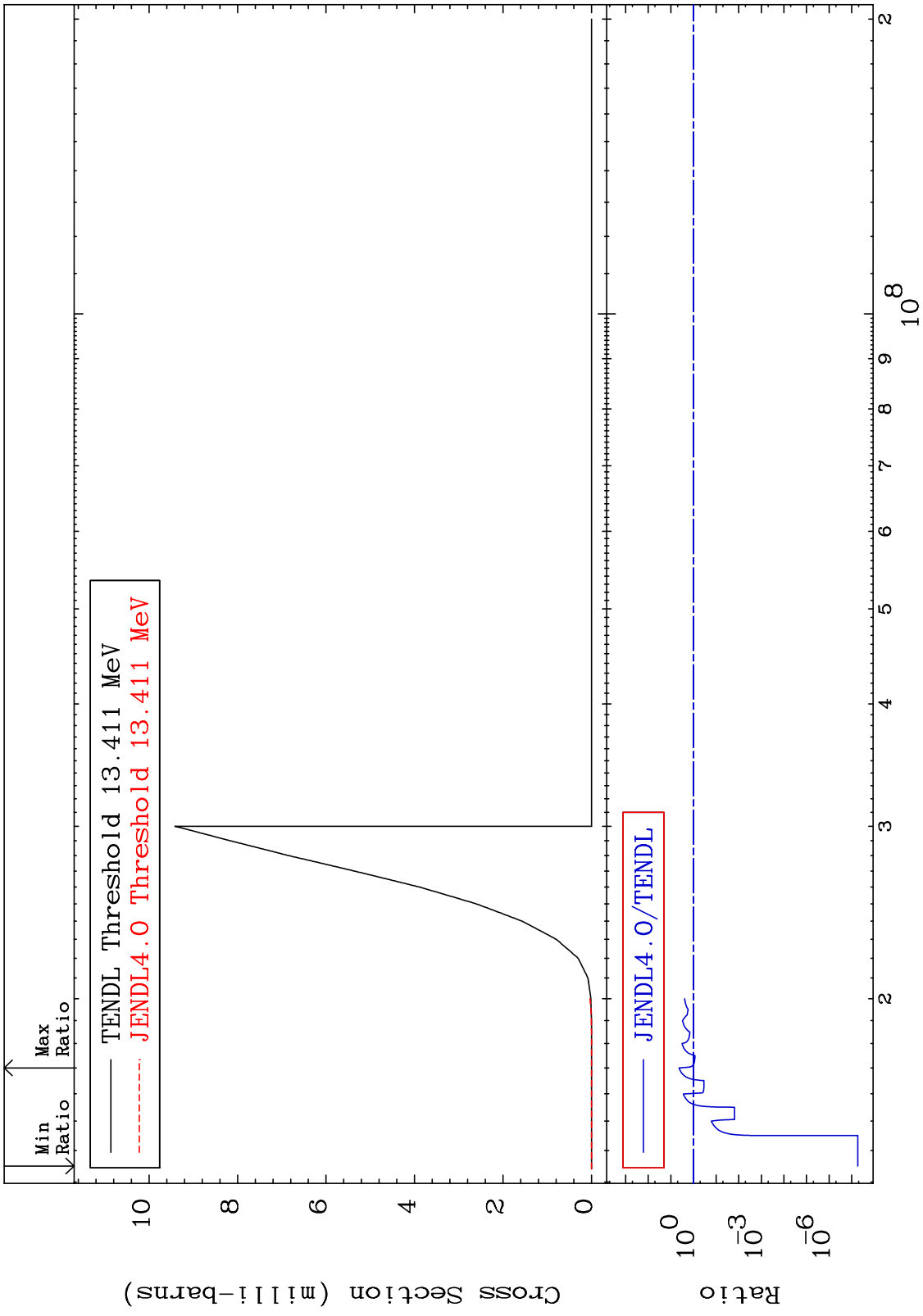
62-Sm-150

MAT 6243 (n, n') p $^{62}\text{Sm}-150$
 Cross Section -97.84 To -11.33%

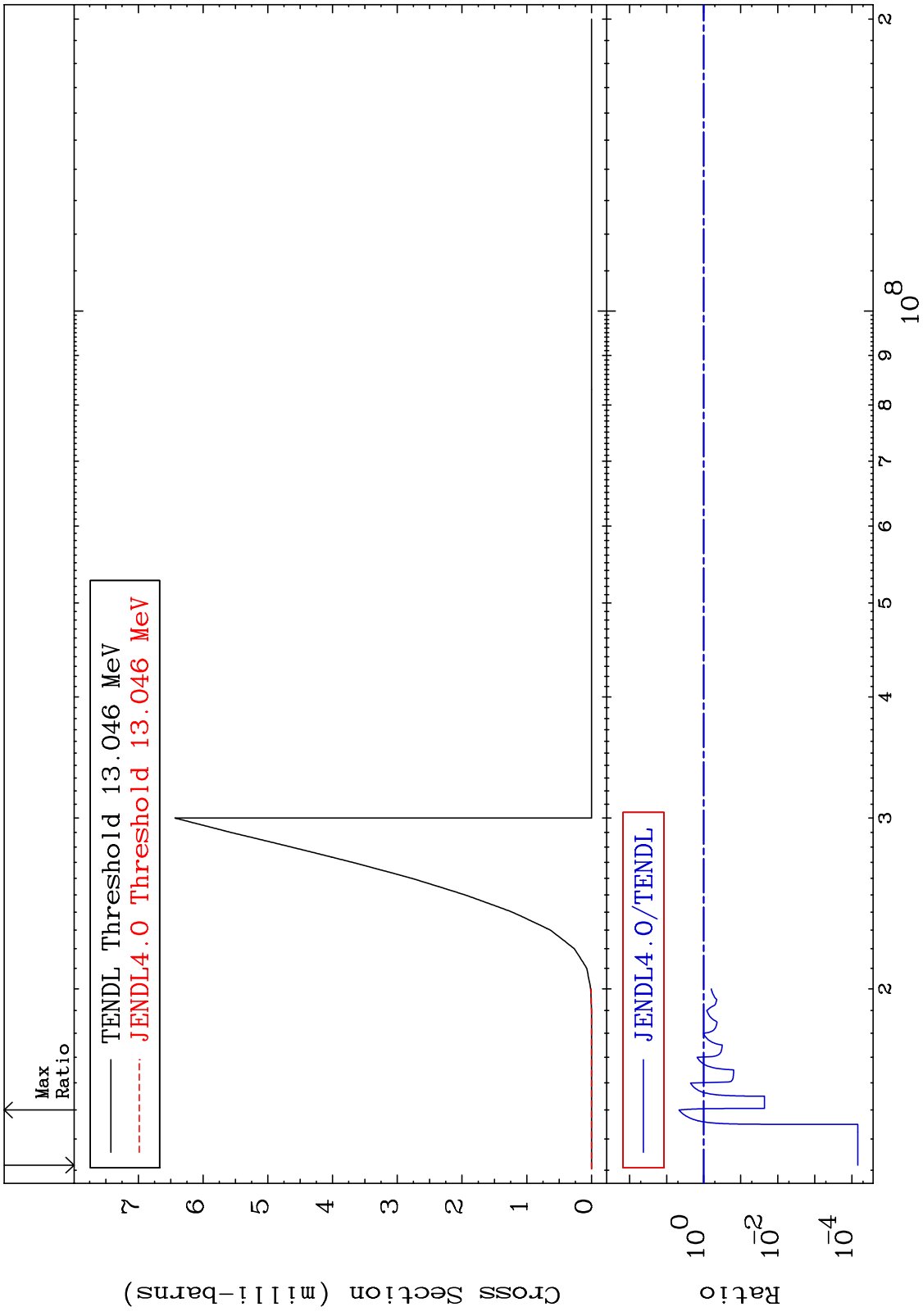


8 10^7 10^8 2 $^{62}\text{Sm}-150$

MAT 6243 (n,n') d 62-Sm-150
 Cross Section -100.0 To 332.2 %

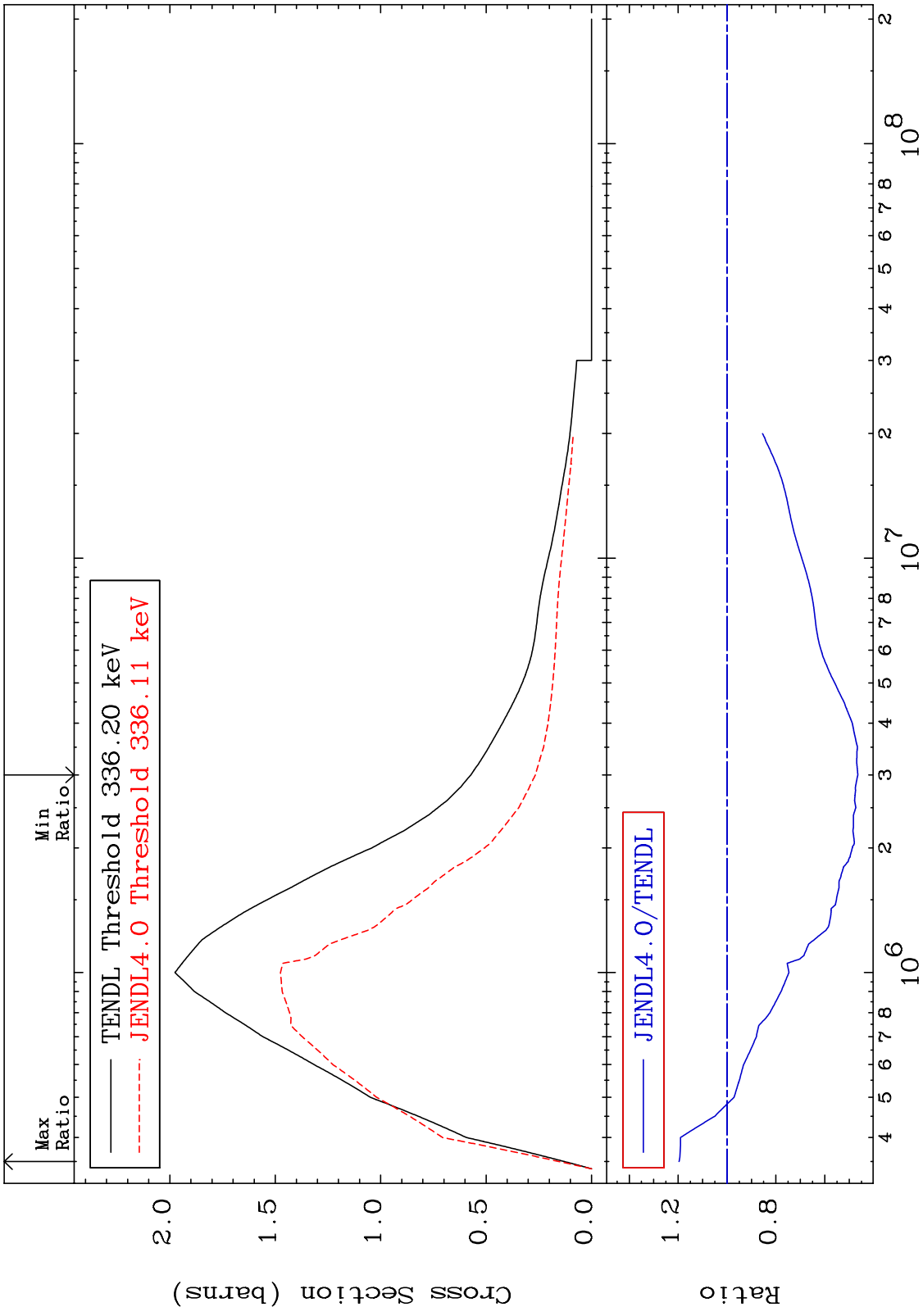


MAT 6243 (n,n') t 62-Sm-150
 Cross Section -99.99 To 363.6 %

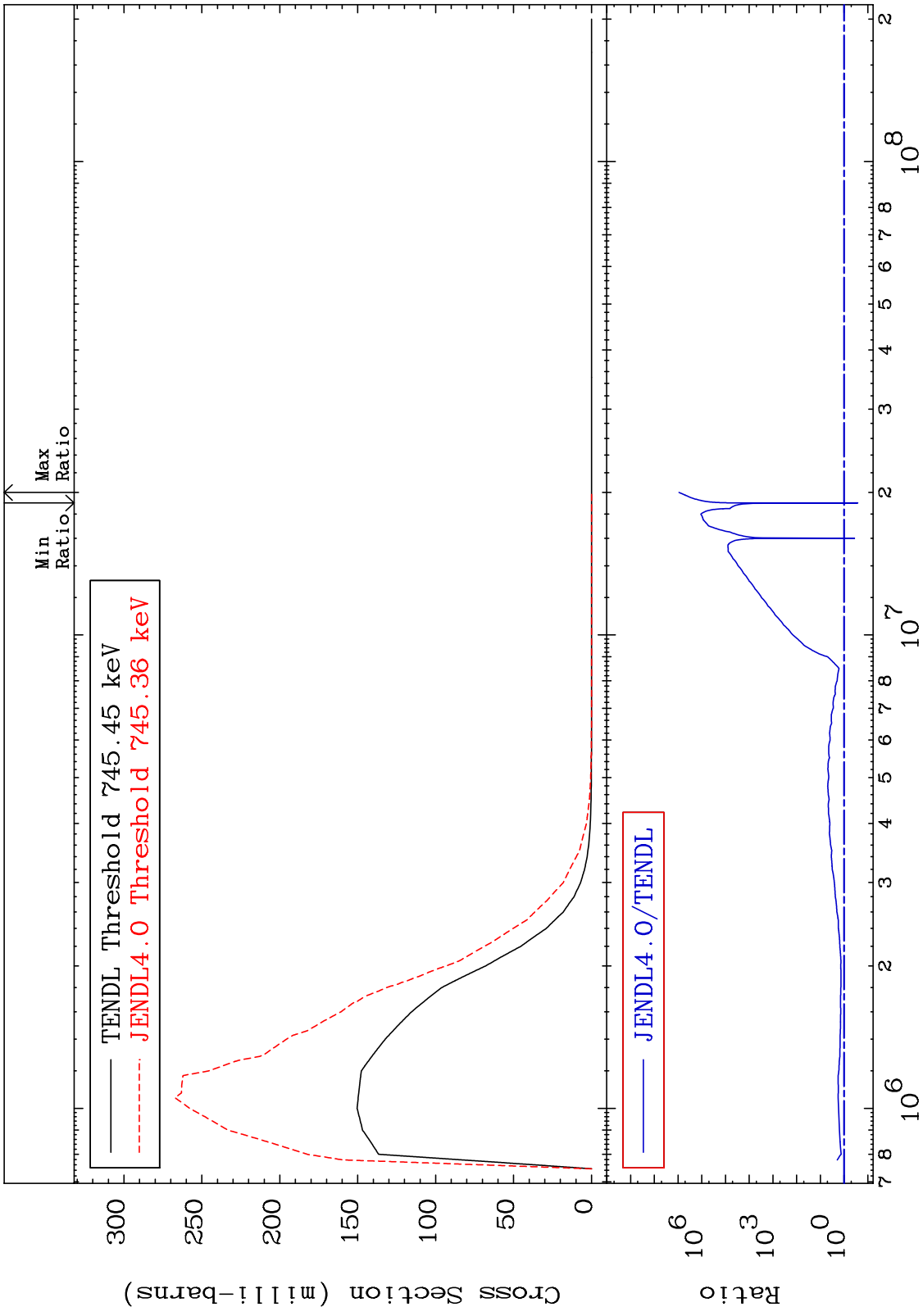


10 Incident Energy (eV) 62-Sm-150

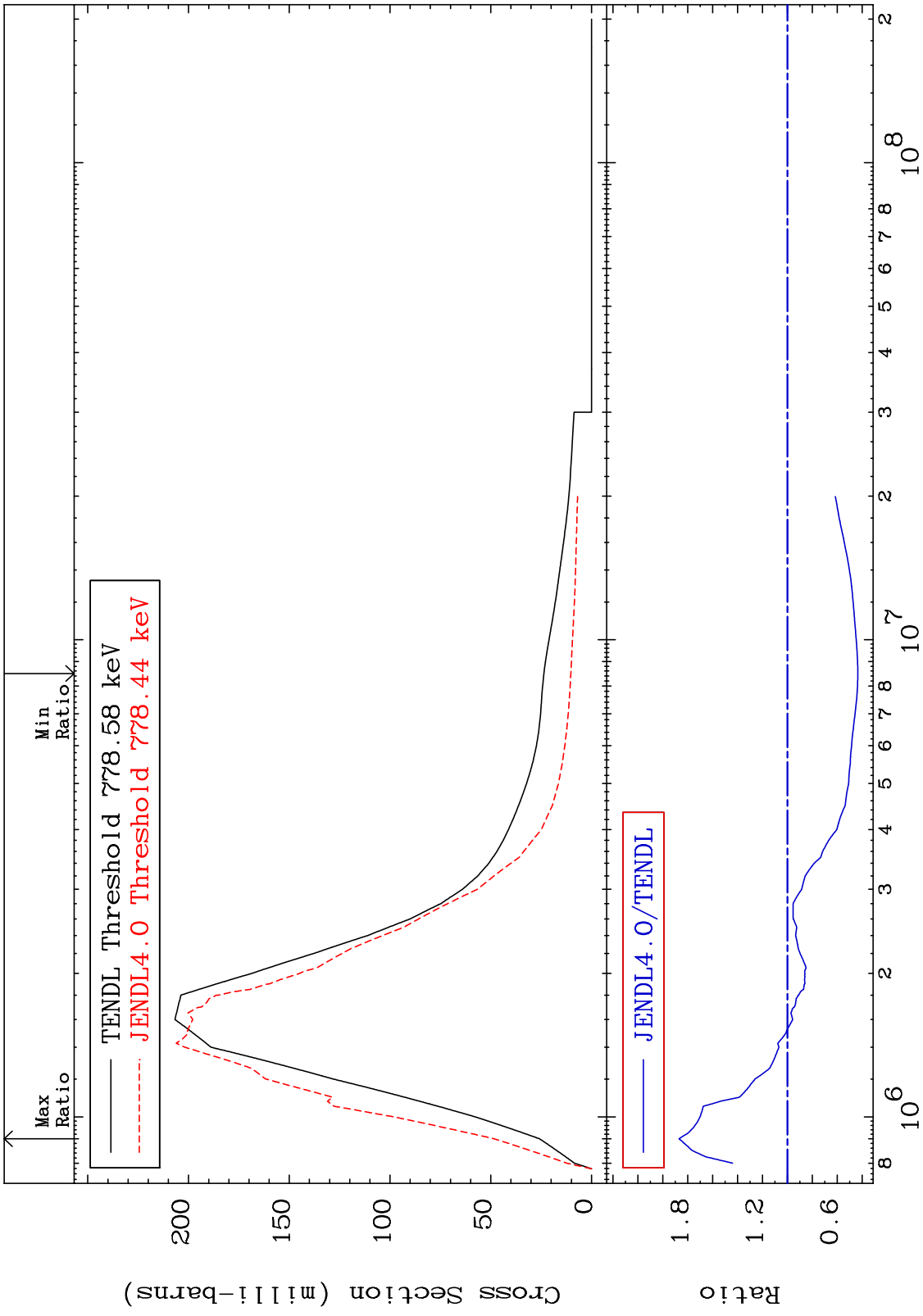
MAT 6243 MT= 51 (n,n') Level Cross Section 62-Sm-150
 -53.53 To 19.63 %



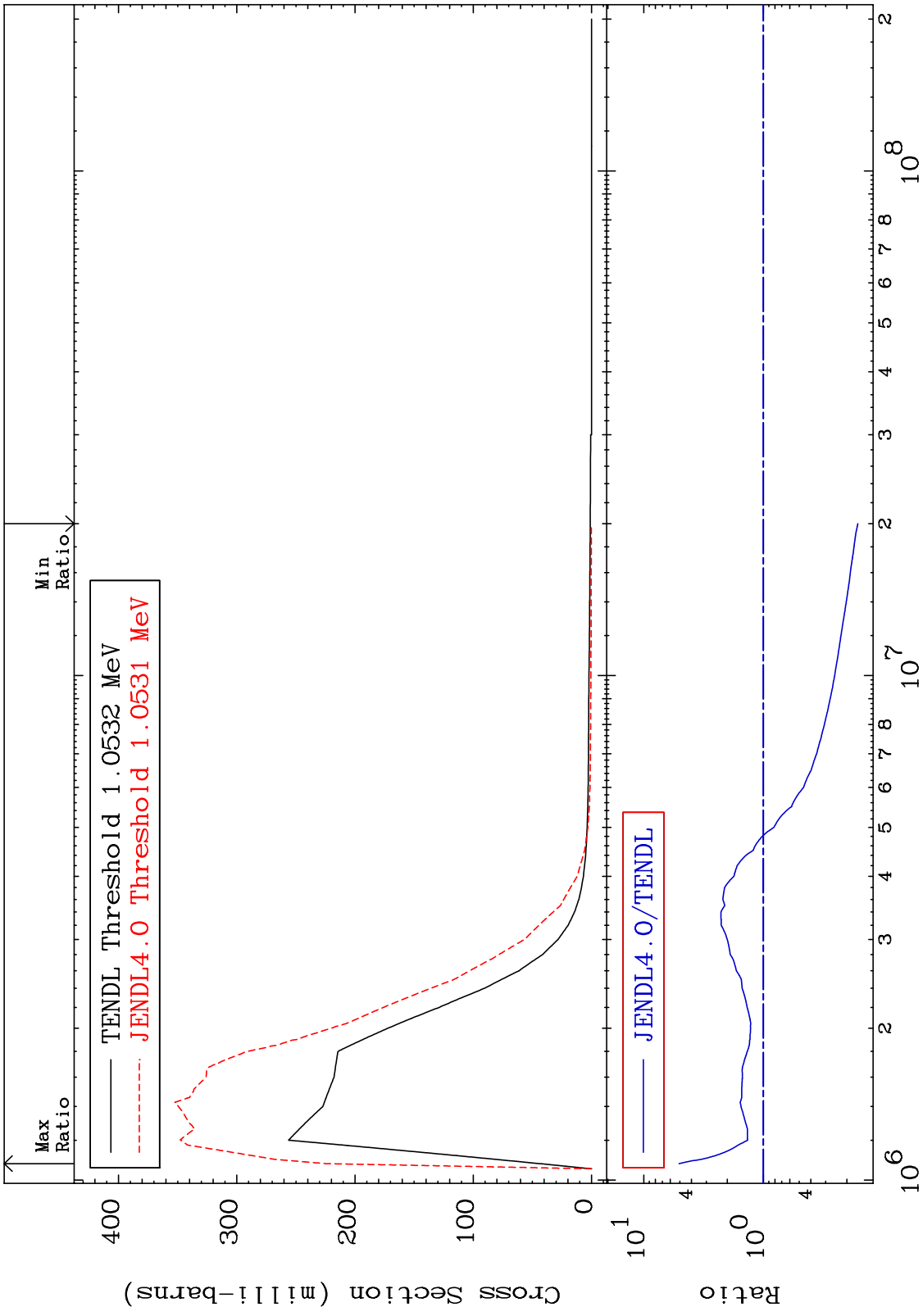
MAT 6243 MT= 52 (n,n') Level Cross Section 62-Sm-150
 -73.67 To 9999. %



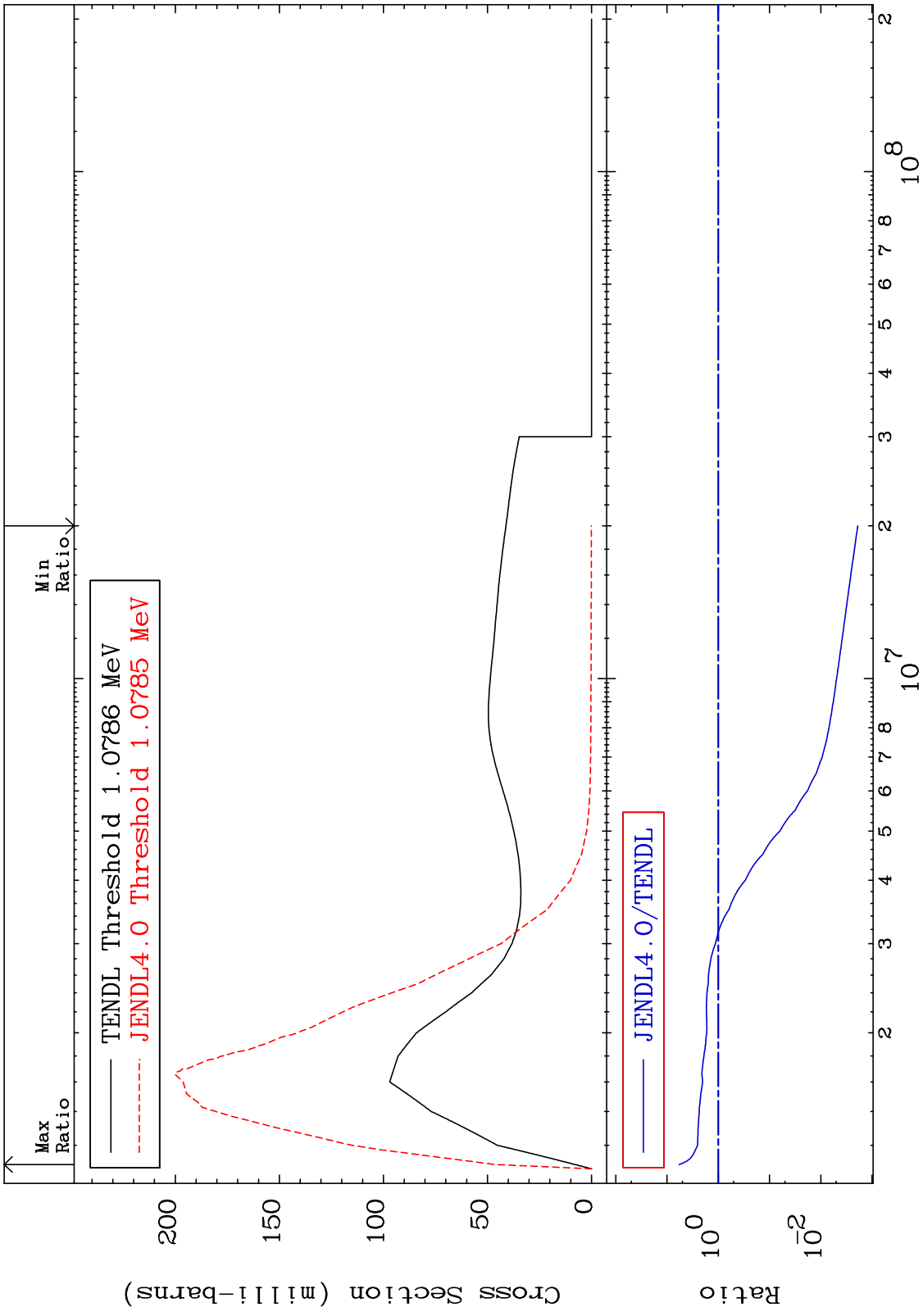
MAT 6243 MT= 53 (n,n') Level Cross Section 62-Sm-150
 -56.55 To 86.97 %



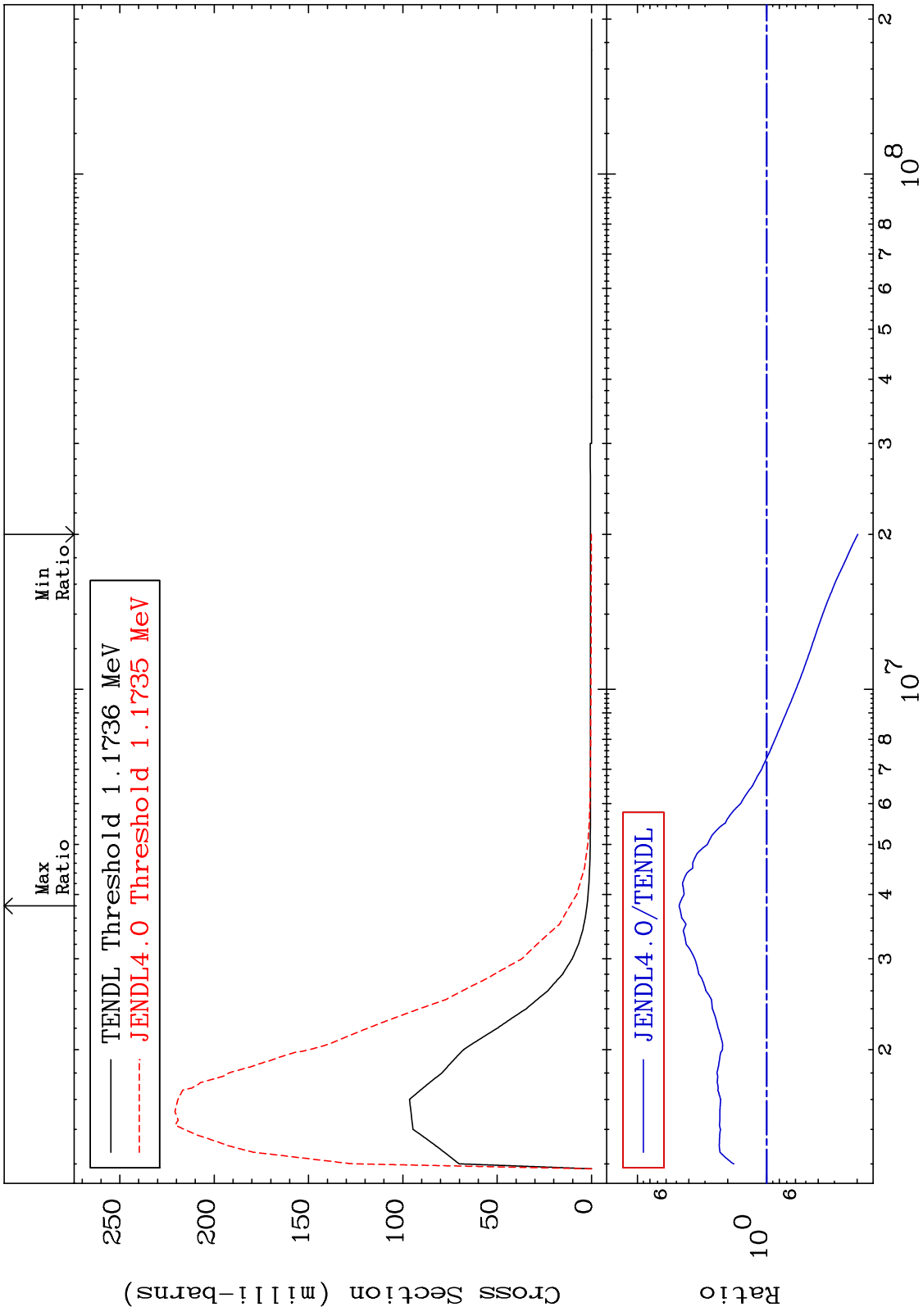
MAT 6243 MT= 54 (n,n') Level Cross Section 62-Sm-150
 -83.84 To 407.2 %



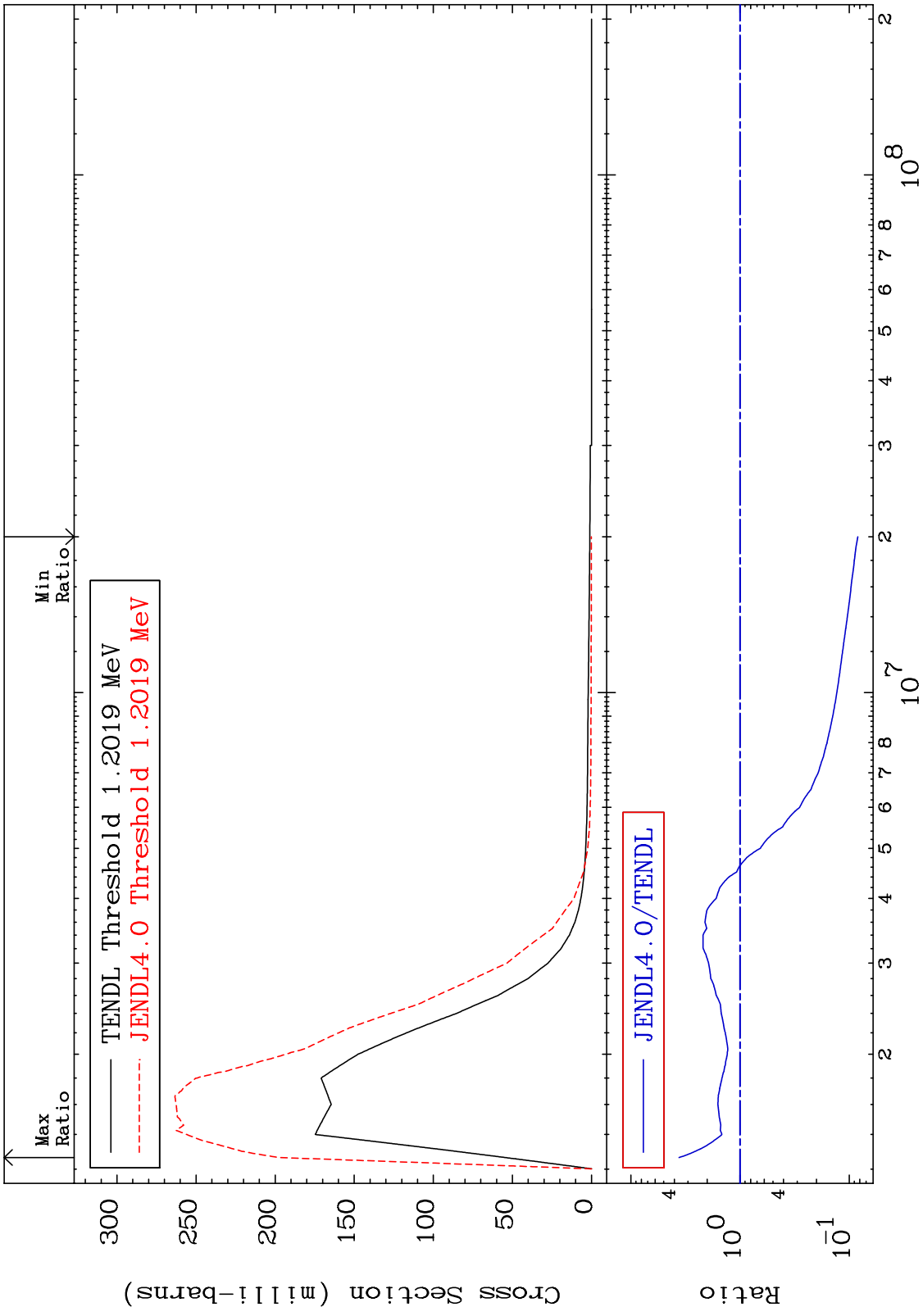
MAT 6243 MT= 55 (n,n') Level Cross Section 62-Sm-150 -99.81 To 483.5 %



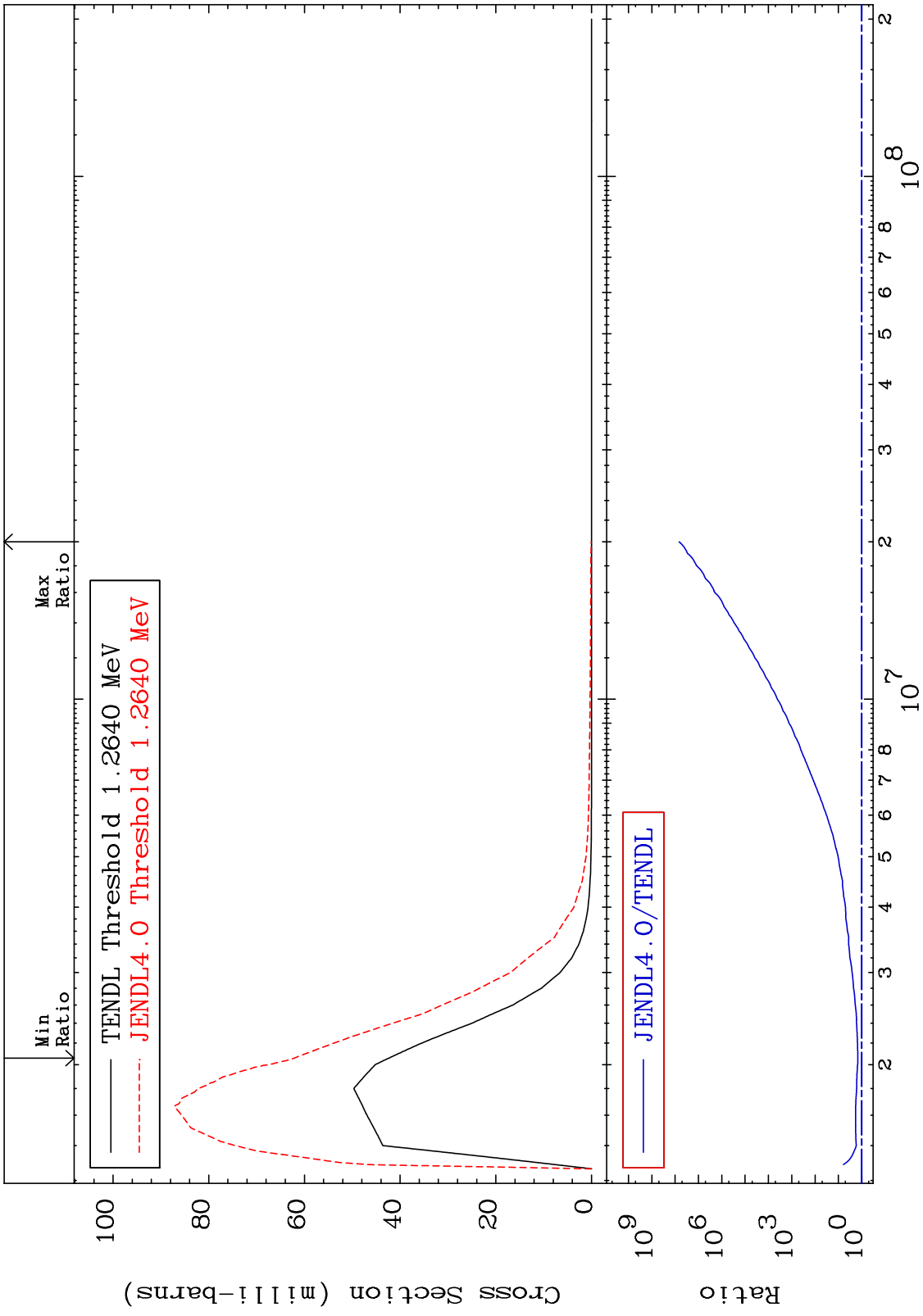
MAT 6243 MT= 56 (n,n') Level Cross Section 62-Sm-150 -80.25 To 376.6 %



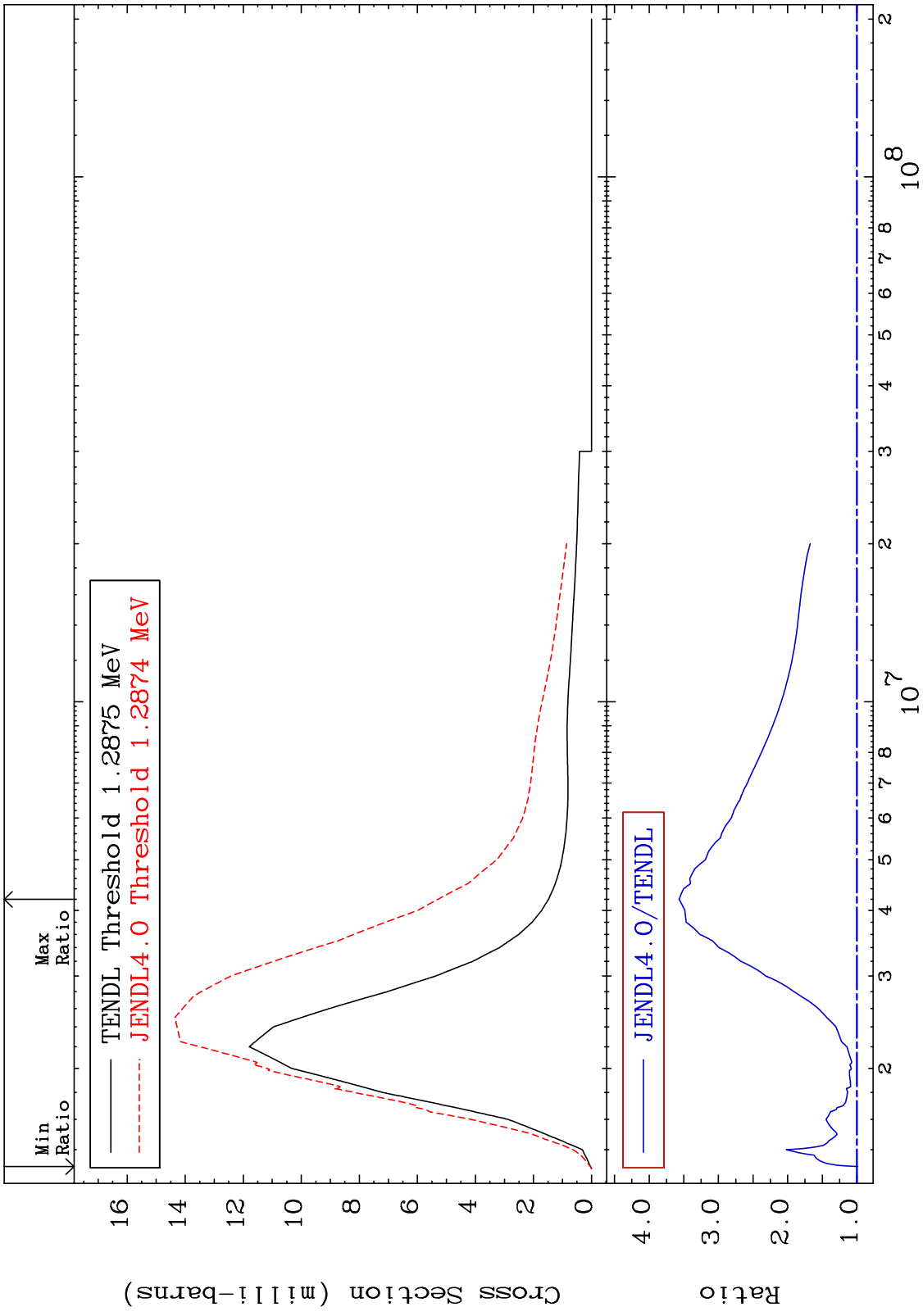
MAT 6243 MT= 57 (n, n') Level Cross Section 62-Sm-150 -91.66 To 261.8 %



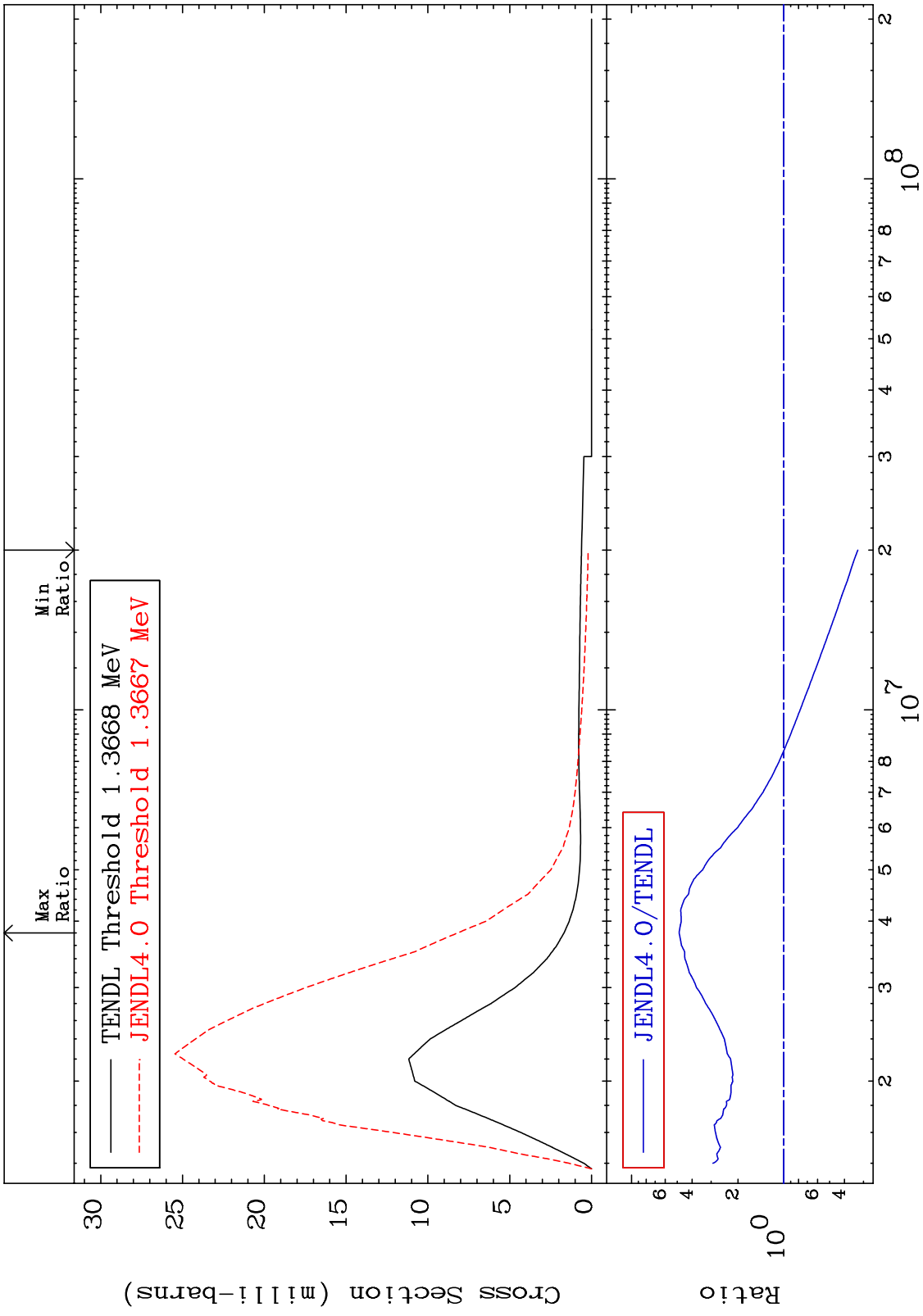
MAT 6243 MT= 58 (n,n') Level Cross Section 62-Sm-150 To 9999. %
 46.61



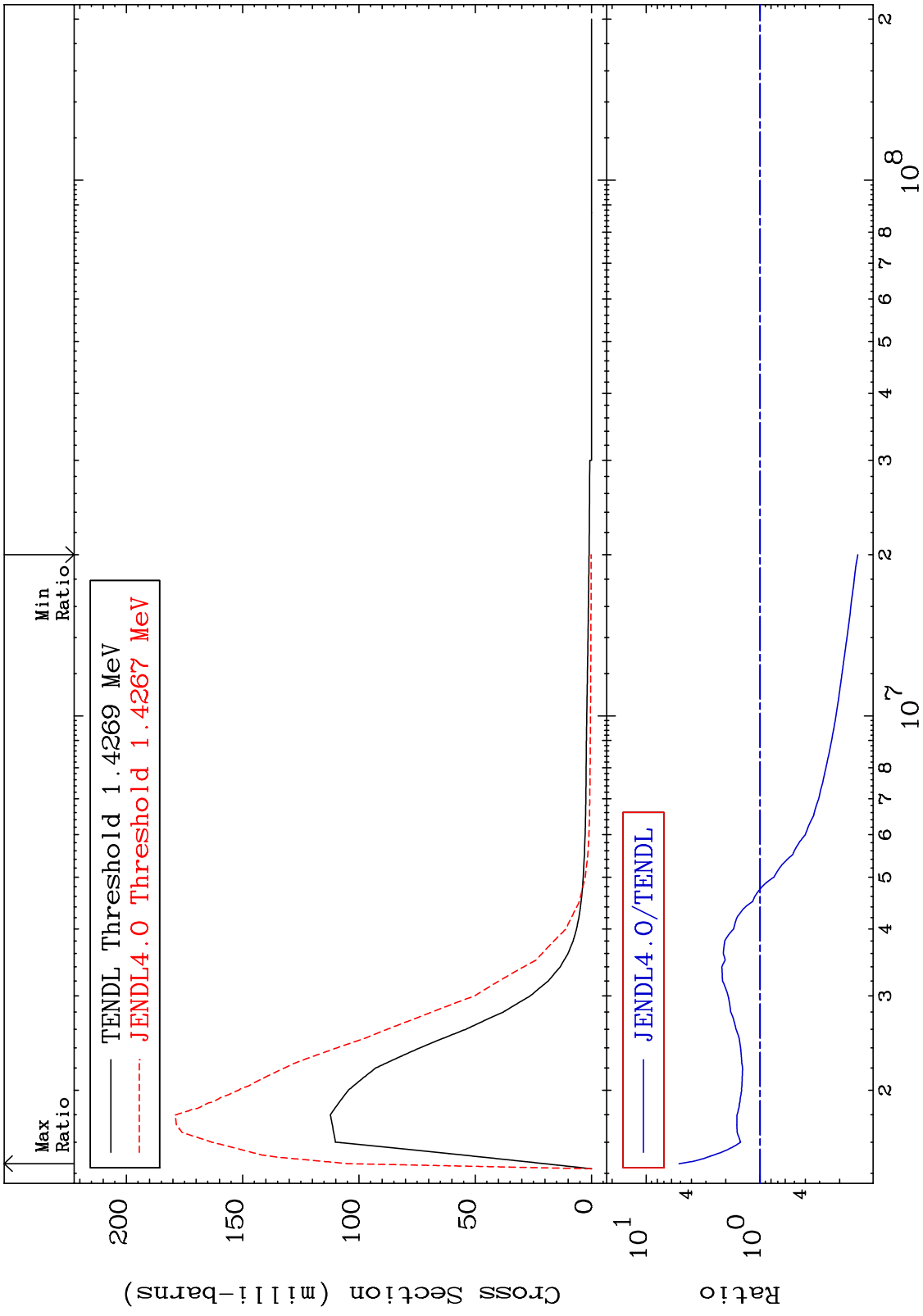
MAT 6243 MT= 59 (n,n') Level Cross Section 62-Sm-150
 -1.303 To 256.9 %



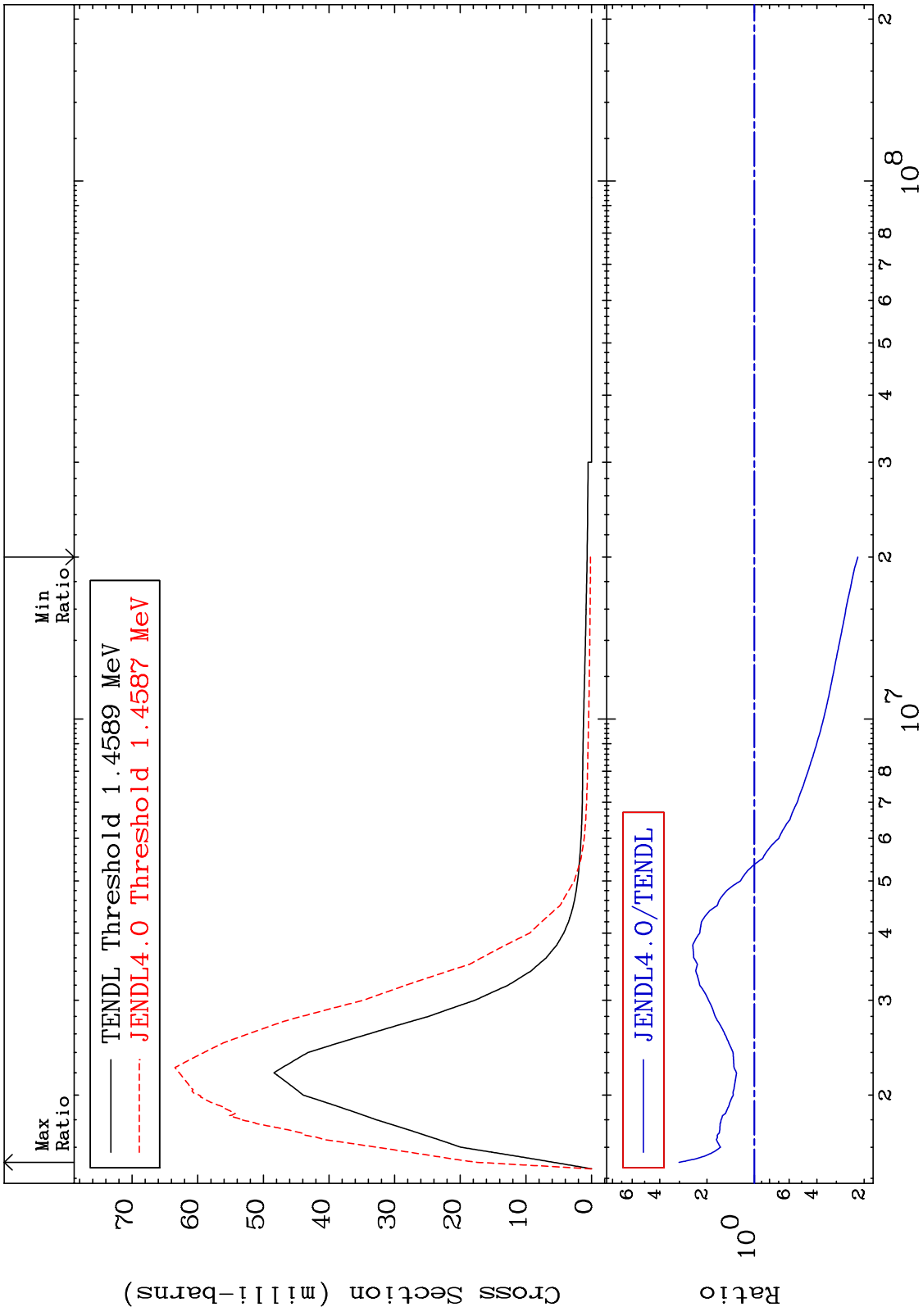
MAT 6243 MT= 60 (n,n') Level Cross Section 62-Sm-150
 -67.38 To 387.0 %



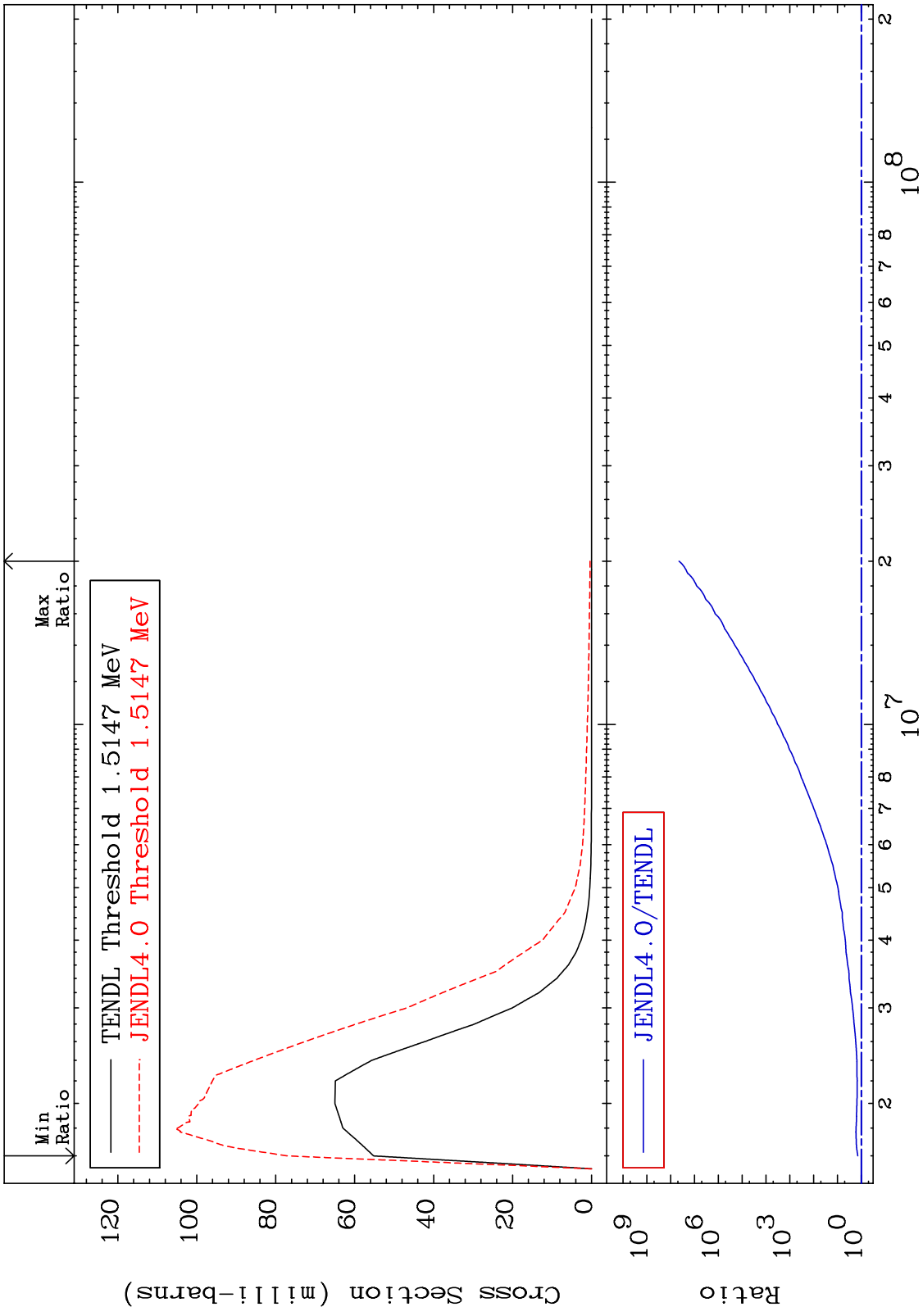
MAT 6243 MT= 61 (n,n') Level Cross Section 62-Sm-150
 -86.17 To 415.1 %



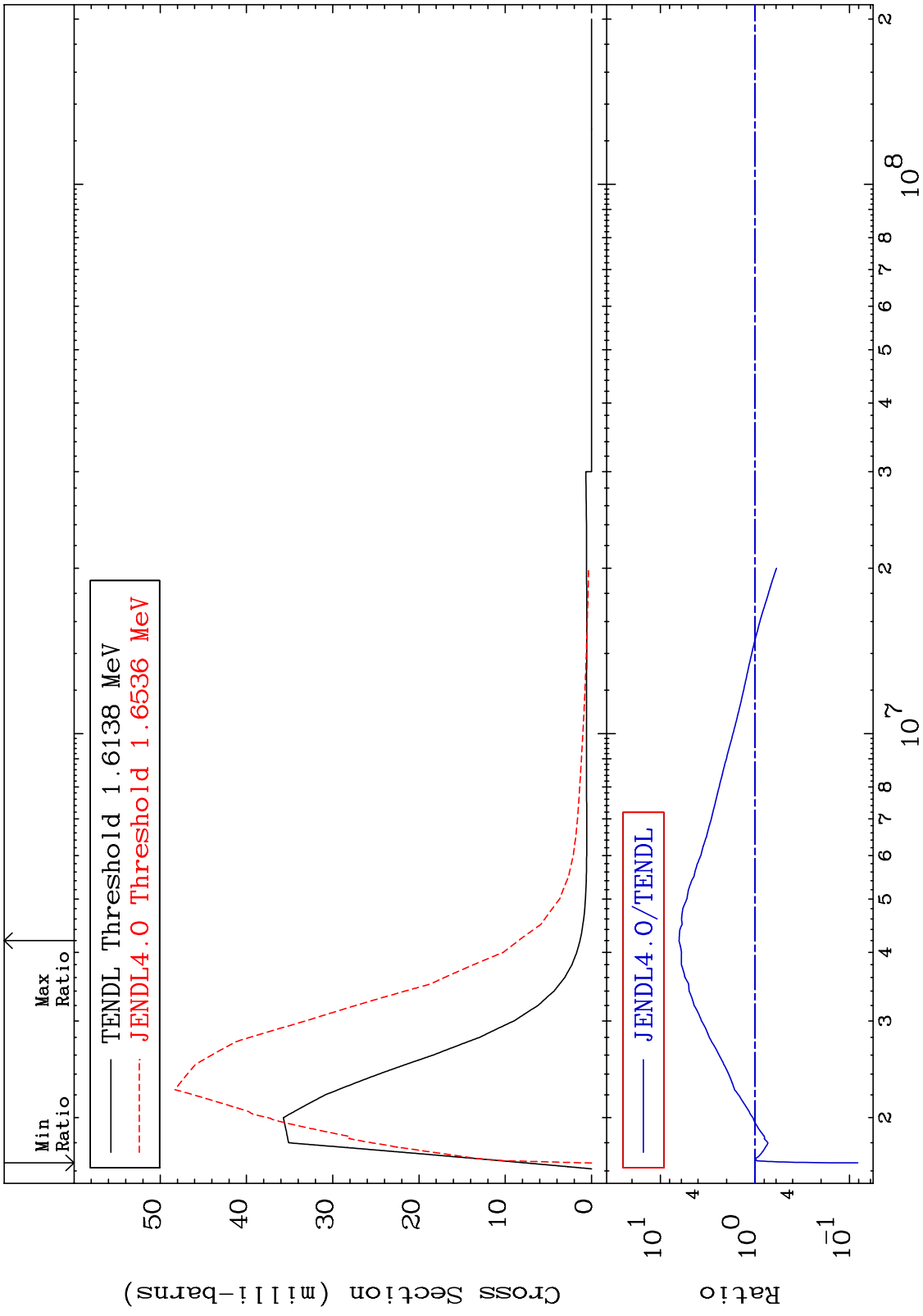
MAT 6243 MT= 62 (n,n') Level Cross Section 62-Sm-150 -78.07 To 201.5 %



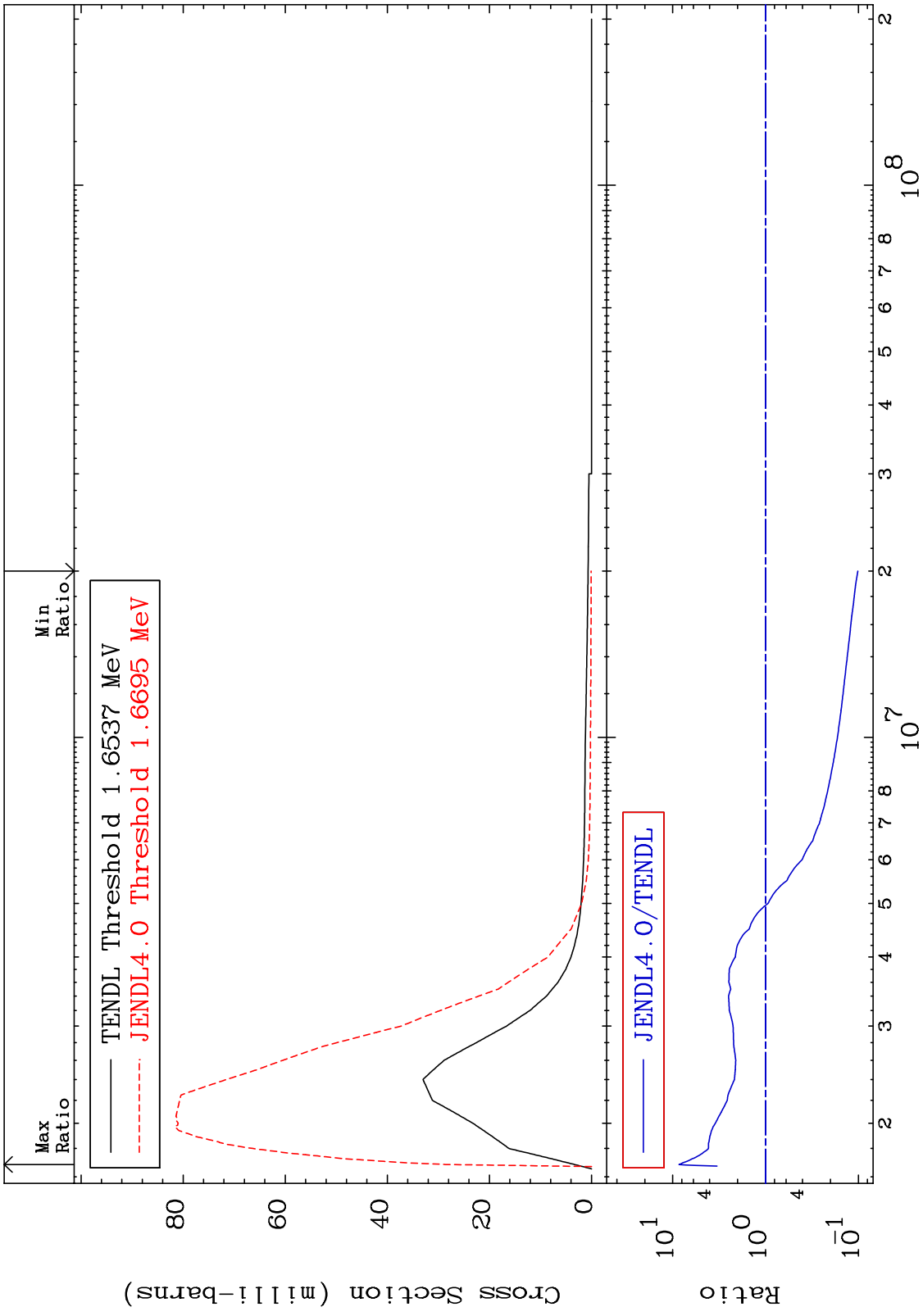
MAT 6243 MT= 63 (n,n') Level Cross Section 62-Sm-150 39.77 To 9999. %



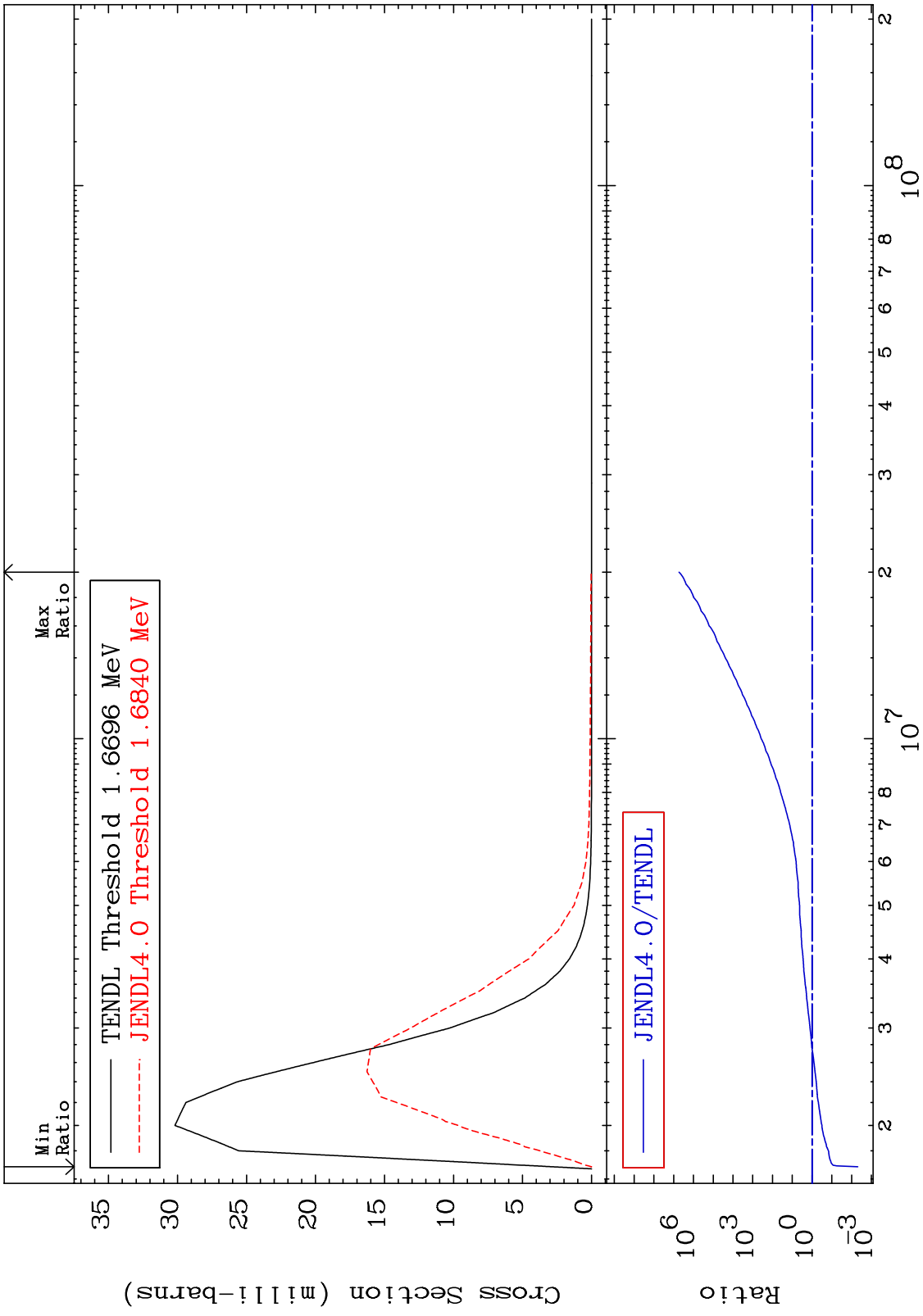
MAT 6243 MT= 64 (n,n') Level 62-Sm-150
 Cross Section -91.82 To 535.7 %



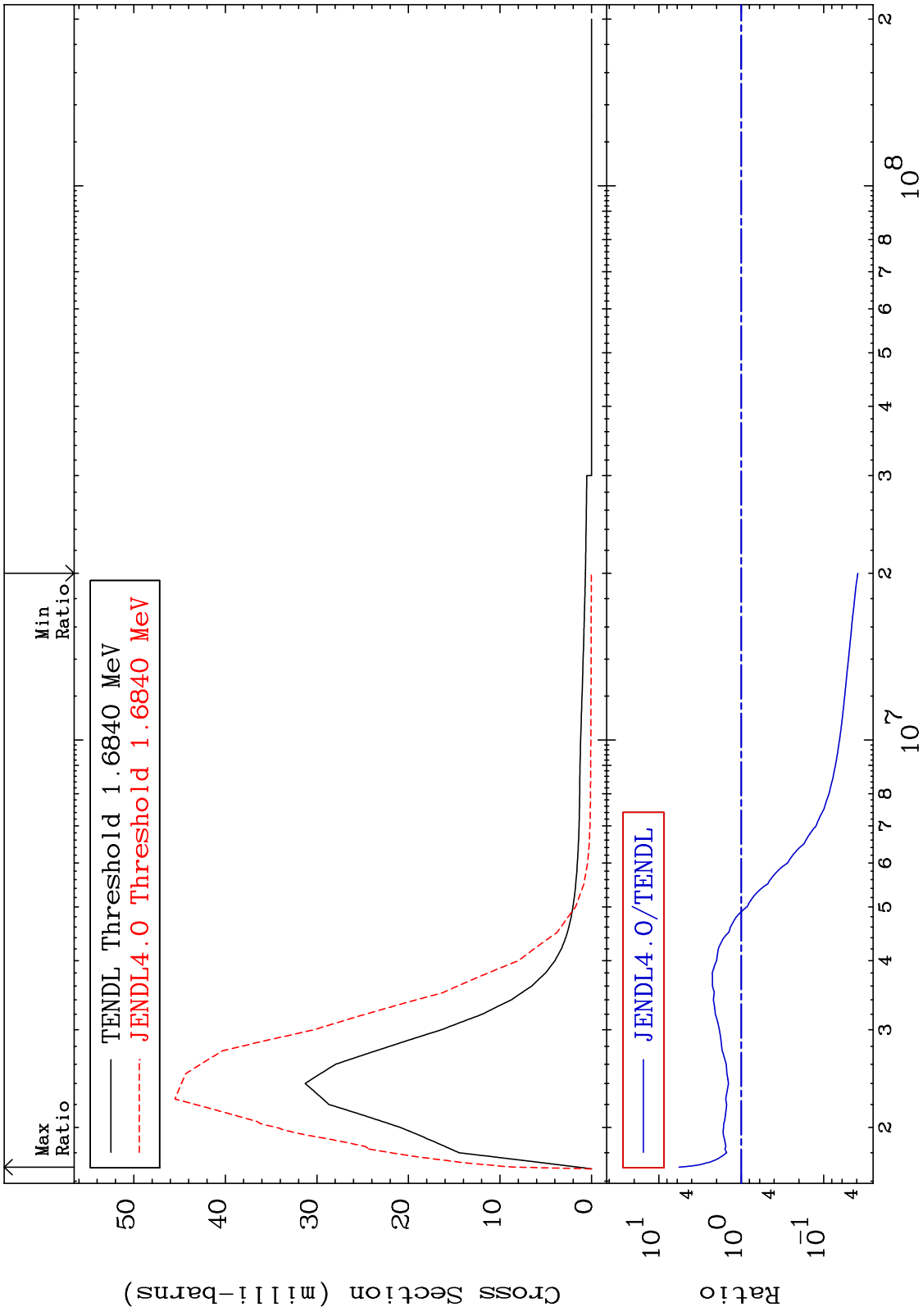
MAT 6243 MT= 65 (n,n') Level Cross Section 62-Sm-150
 -89.86 To 754.8 %



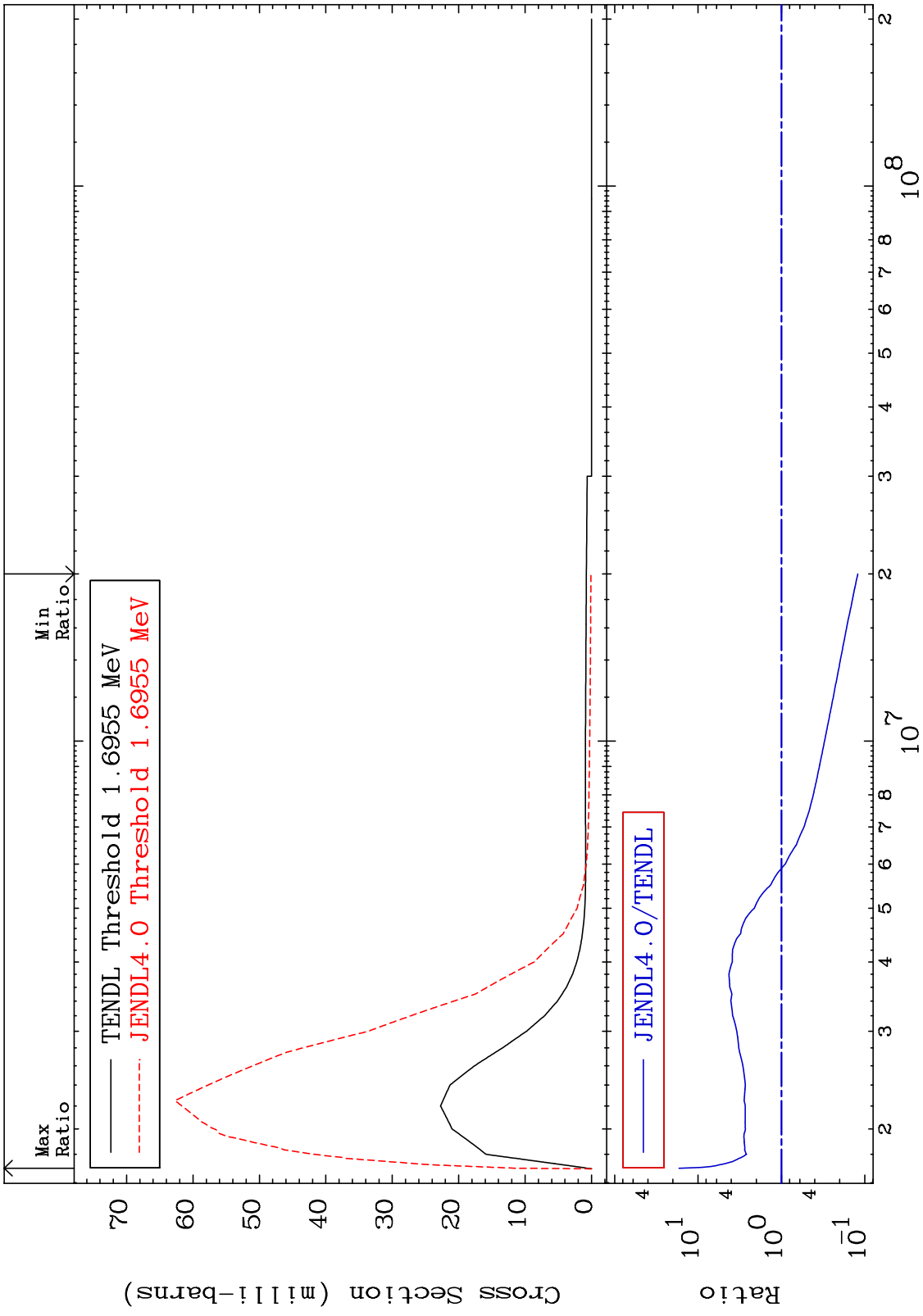
MAT 6243 MT= 66 (n,n') Level Cross Section 62-Sm-150
 -99.52 To 9999. %



MAT 6243 MT= 67 (n,n') Level Cross Section 62-Sm-150
 -96.14 To 470.3 %

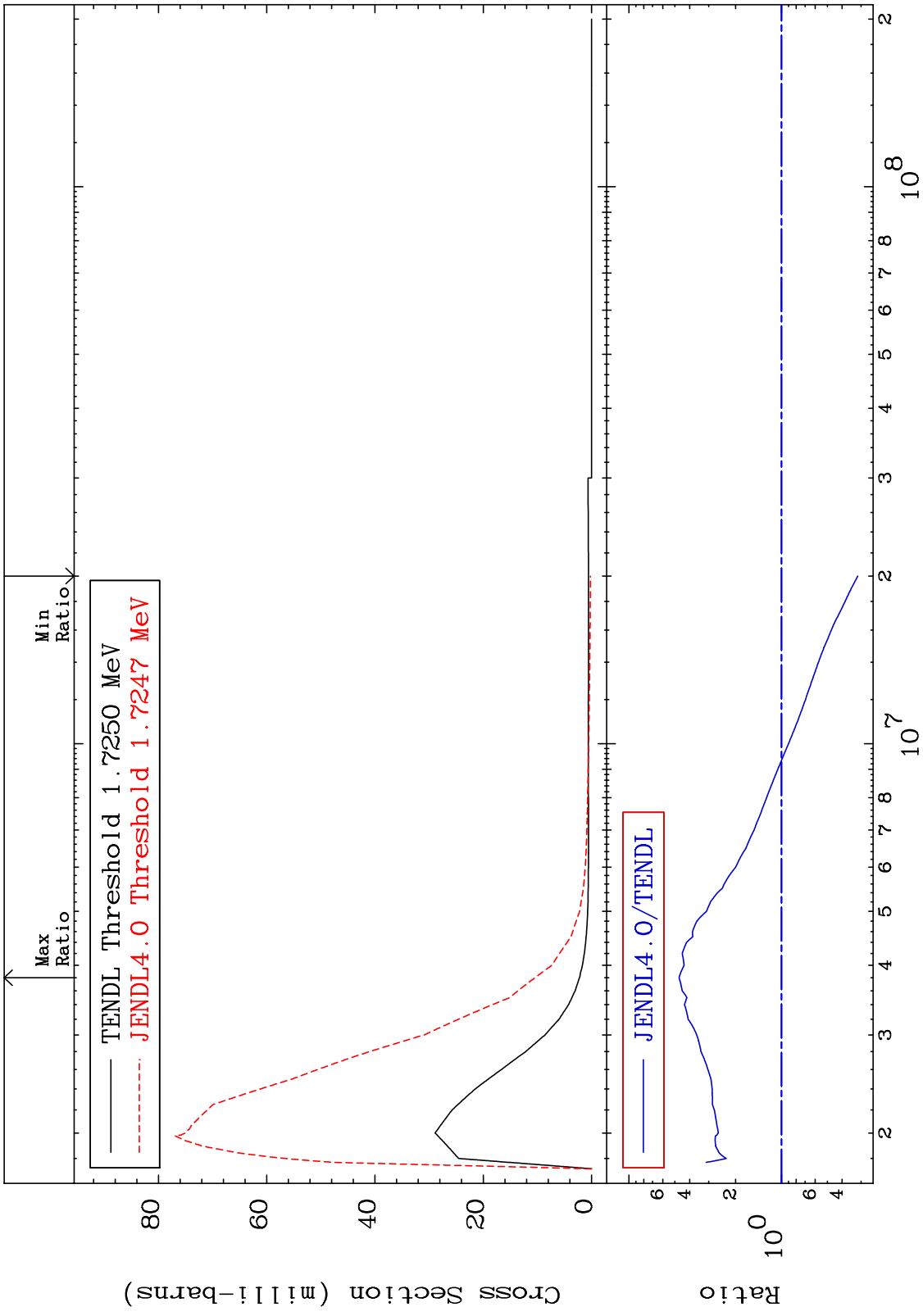


MAT 6243 MT= 68 (n,n') Level Cross Section 62-Sm-150
 -87.87 To 1590. %

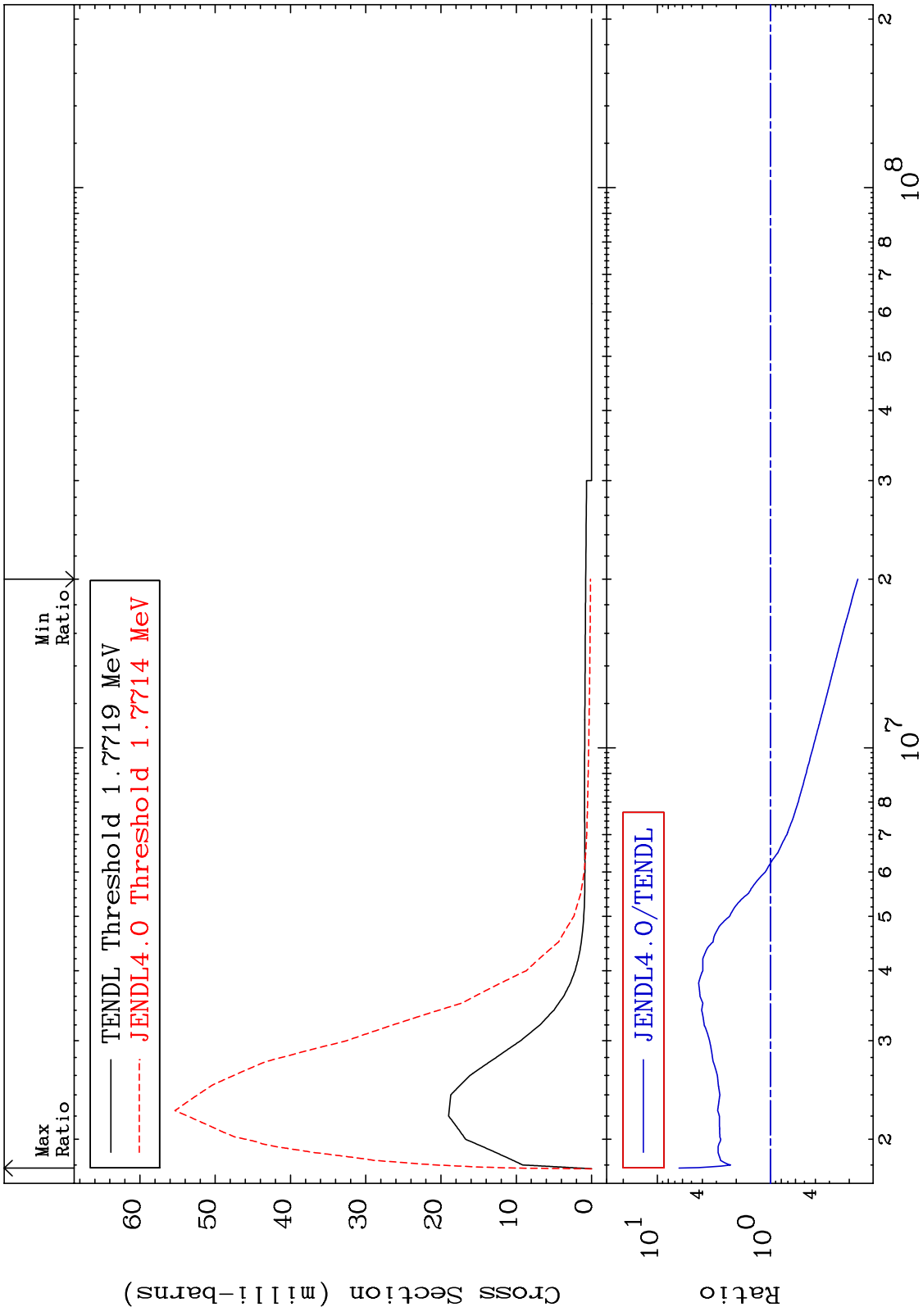


28 62-Sm-150 Incident Energy (eV)

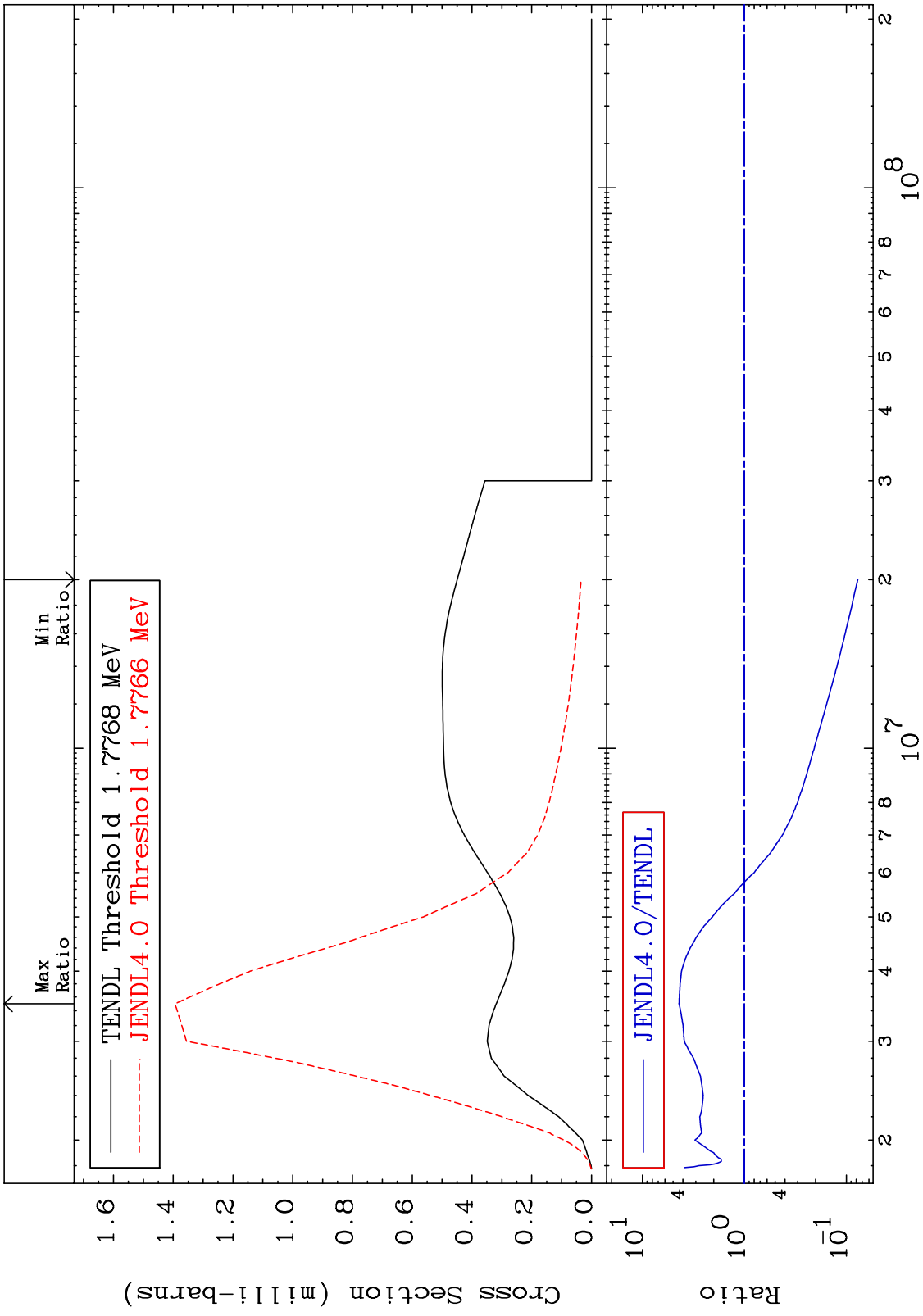
MAT 6243 MT= 69 (n,n') Level Cross Section 62-Sm-150
 -68.46 To 369.5 %



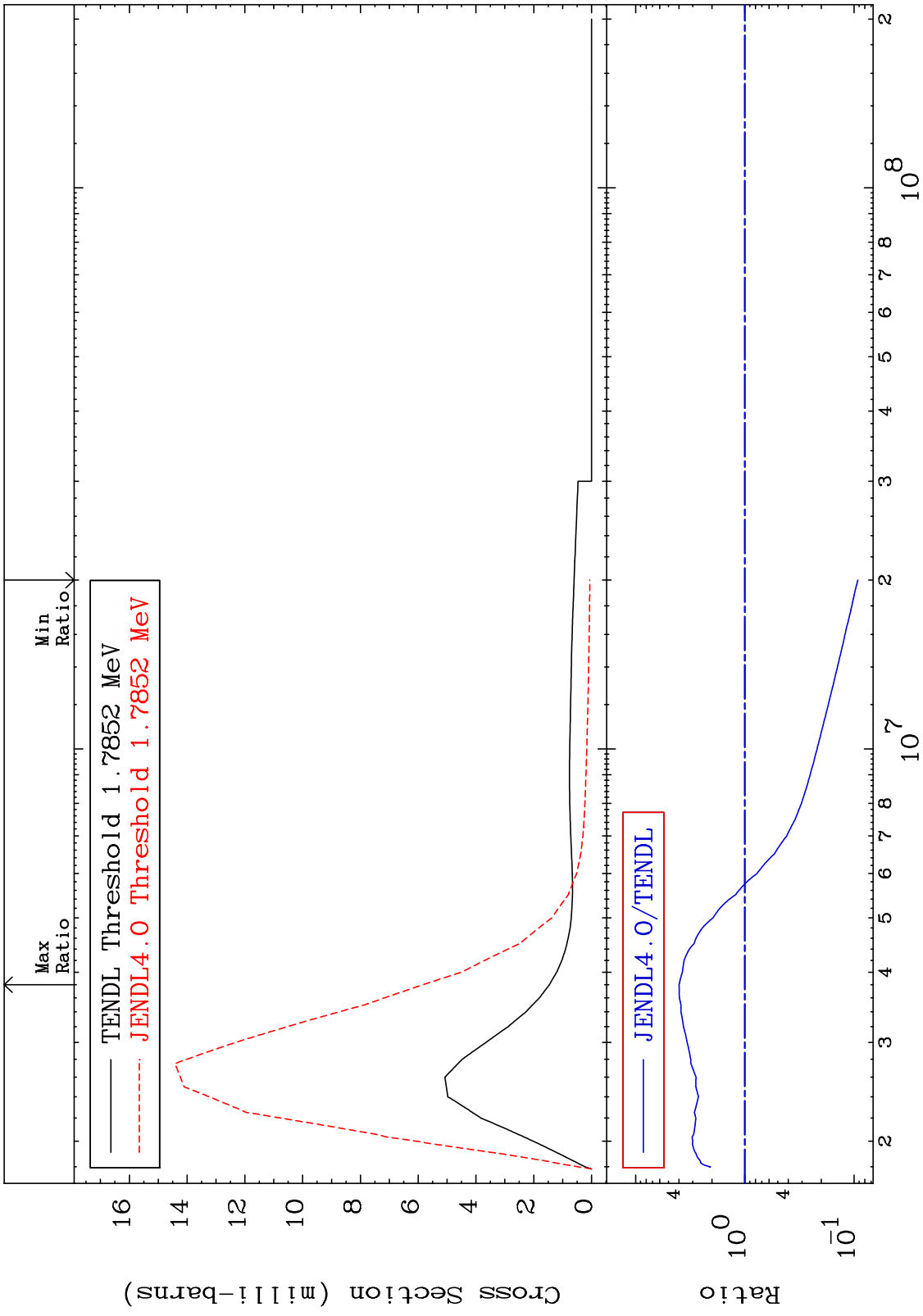
MAT 6243 MT= 70 (n,n') Level 62-Sm-150
 Cross Section -83.17 To 542.6 %



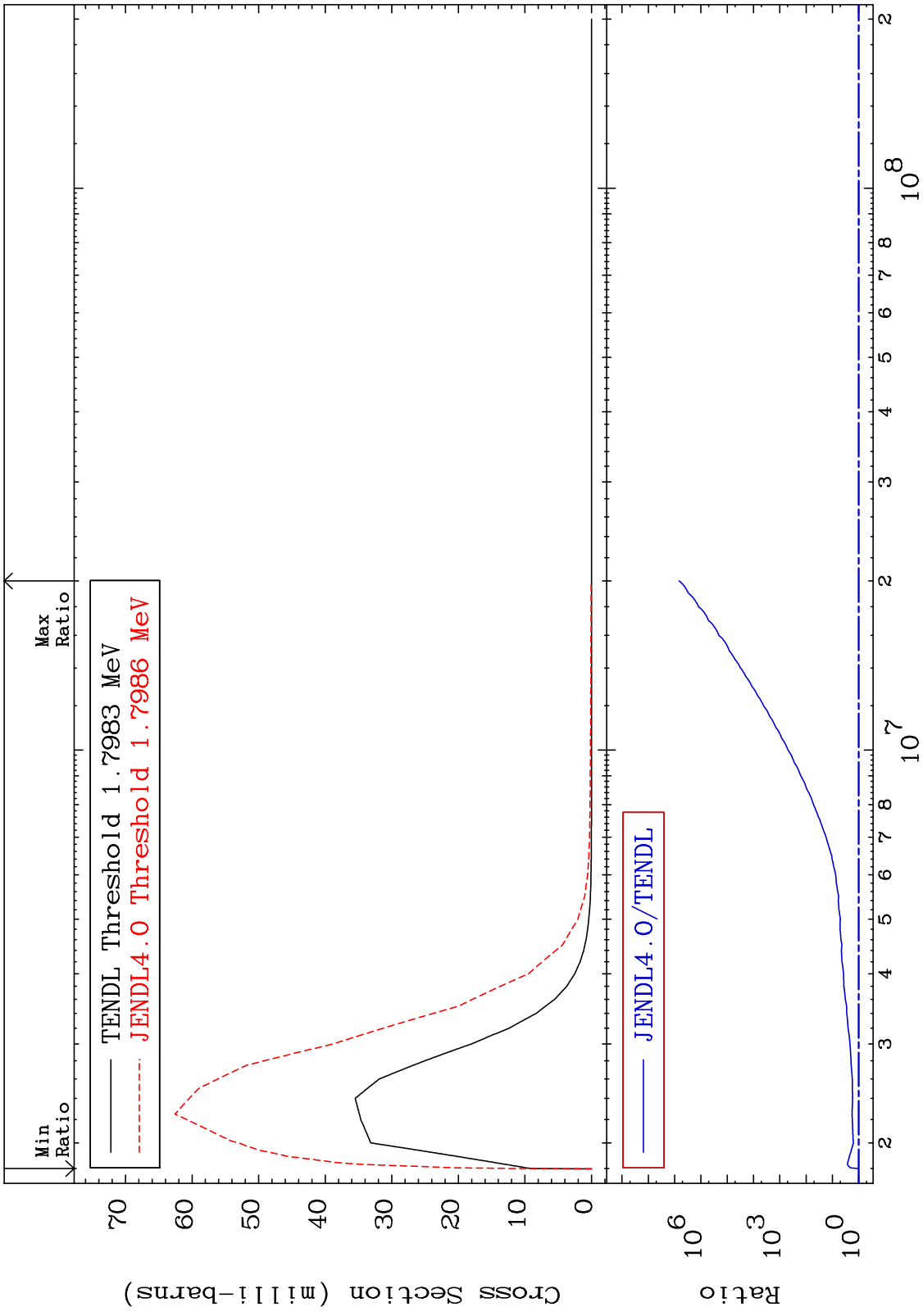
MAT 6243 MT= 71 (n,n') Level Cross Section 62-Sm-150
 -92.29 To 337.3 %



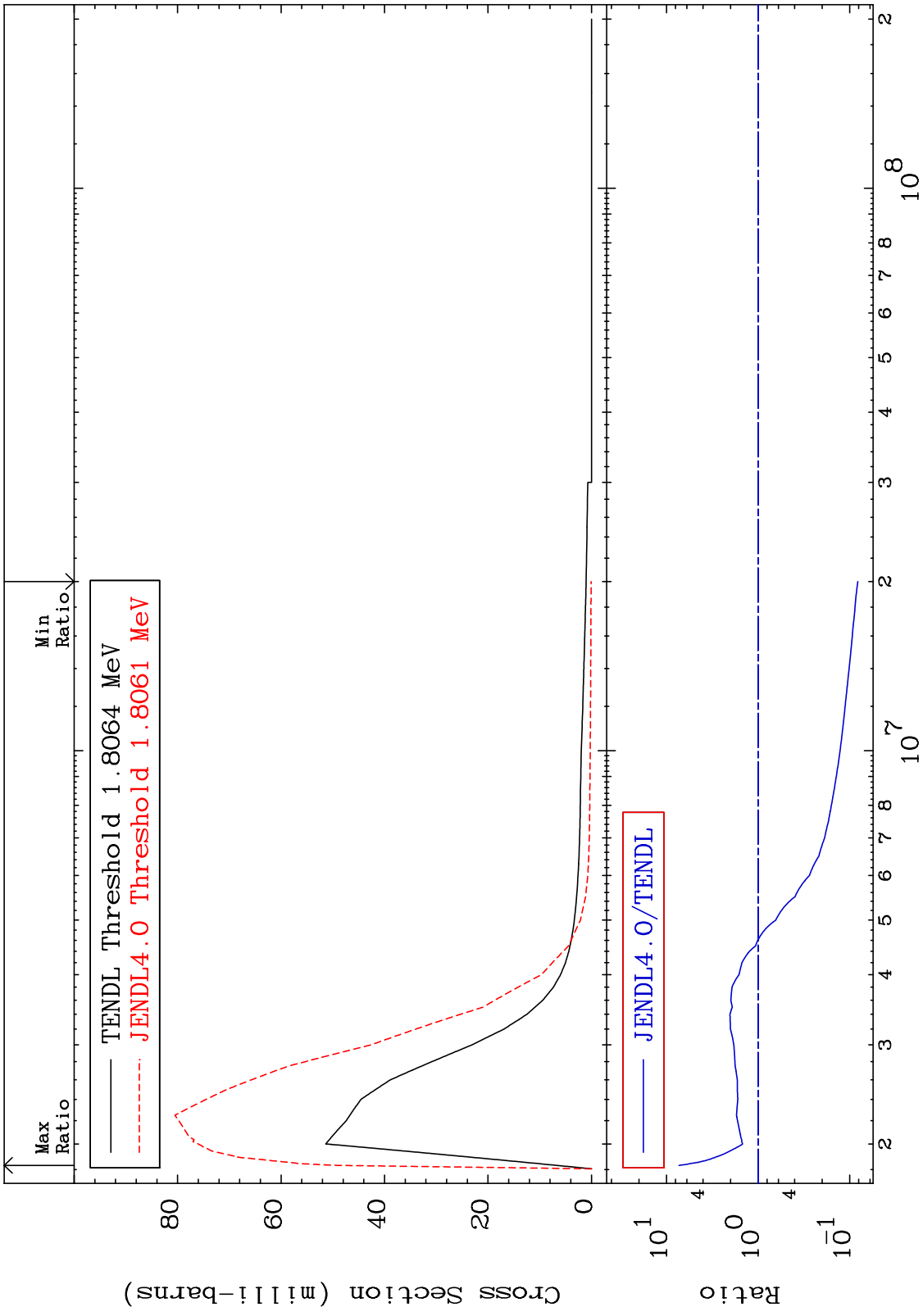
MAT 6243 MT= 72 (n,n') Level Cross Section 62-Sm-150
 -90.76 To 300.2 %



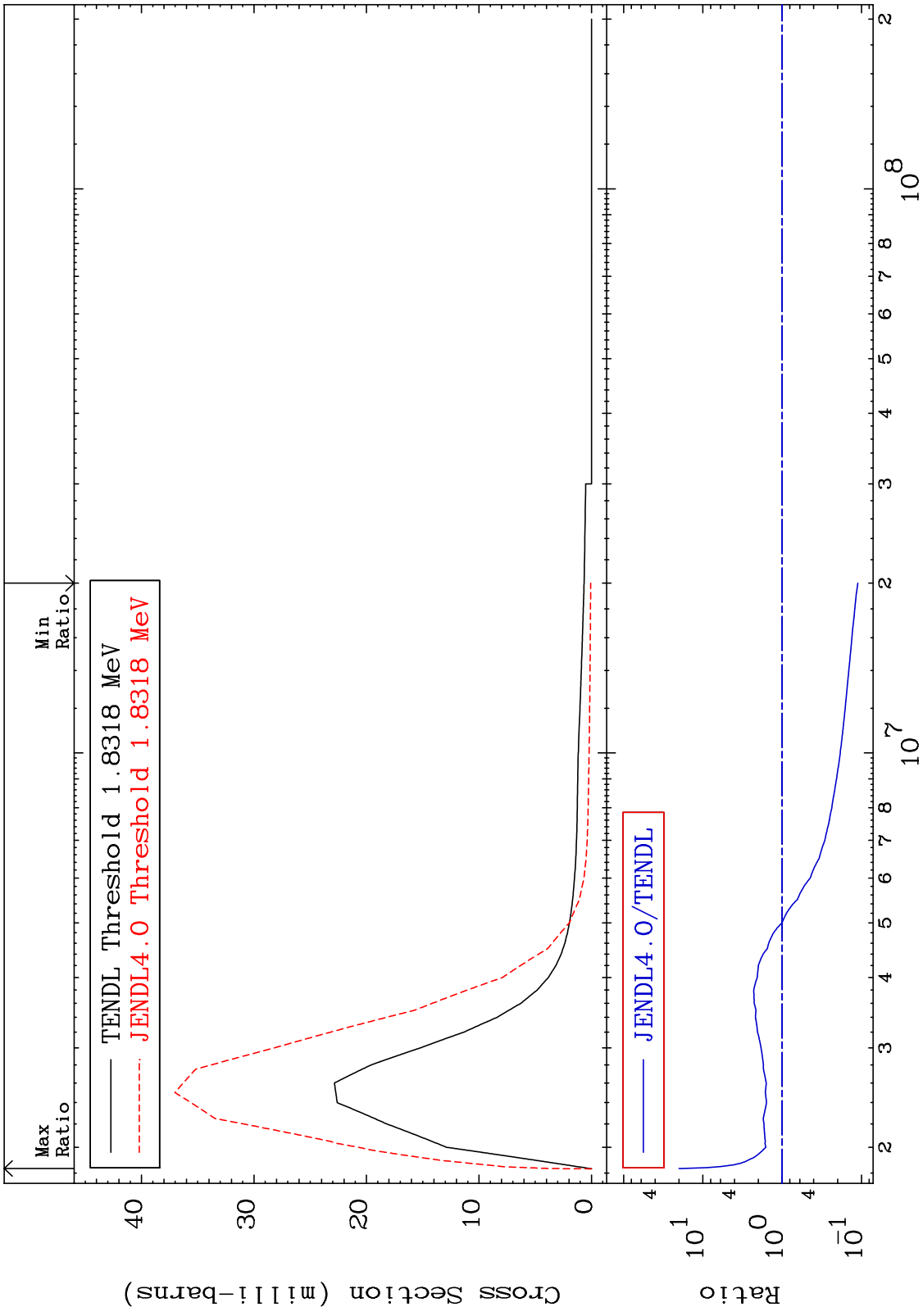
MAT 6243 MT= 73 (n,n') Level Cross Section 62-Sm-150 To 9999. %
 7.951



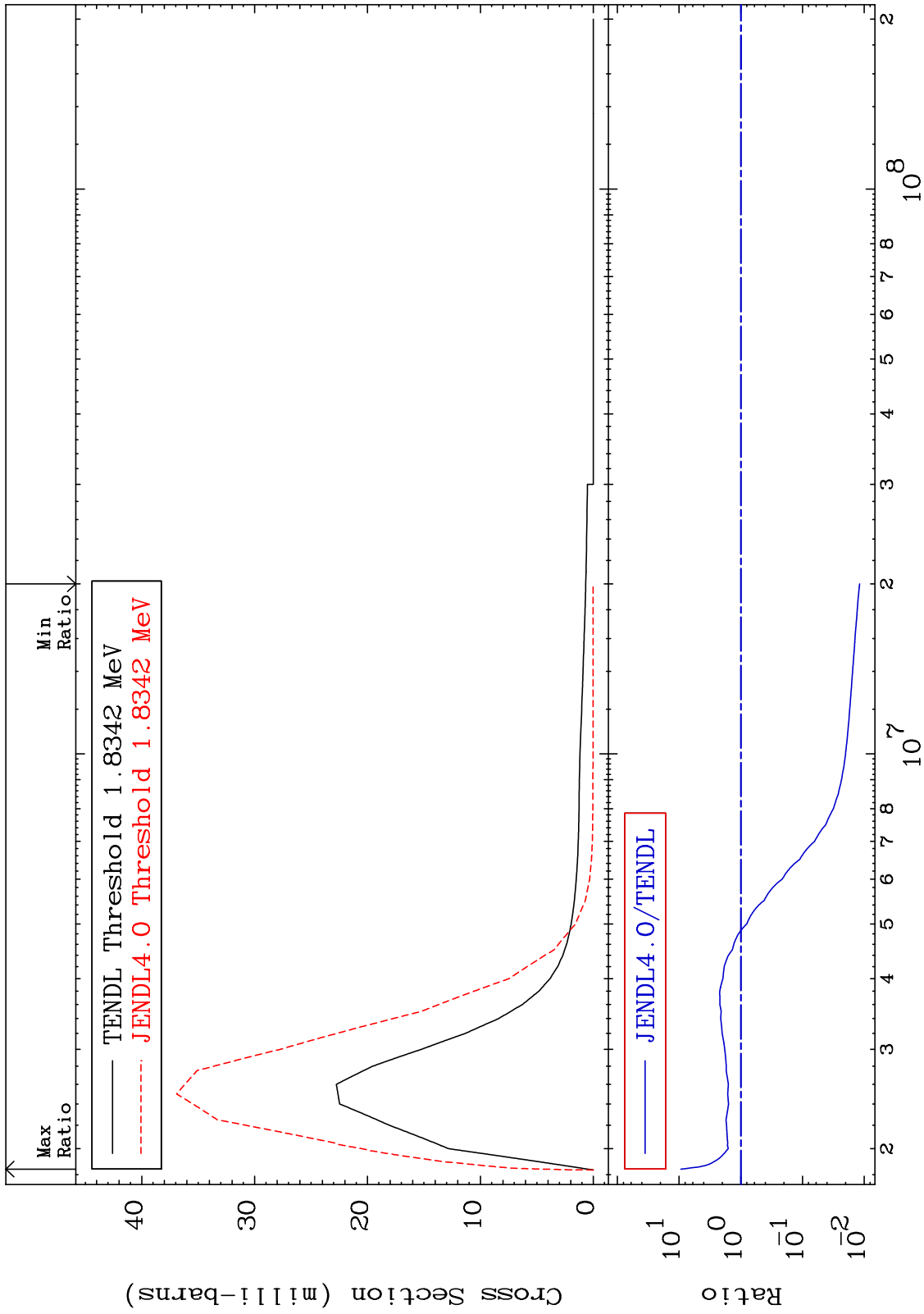
MAT 6243 MT= 74 (n,n') Level Cross Section 62-Sm-150
 -91.84 To 631.0 %



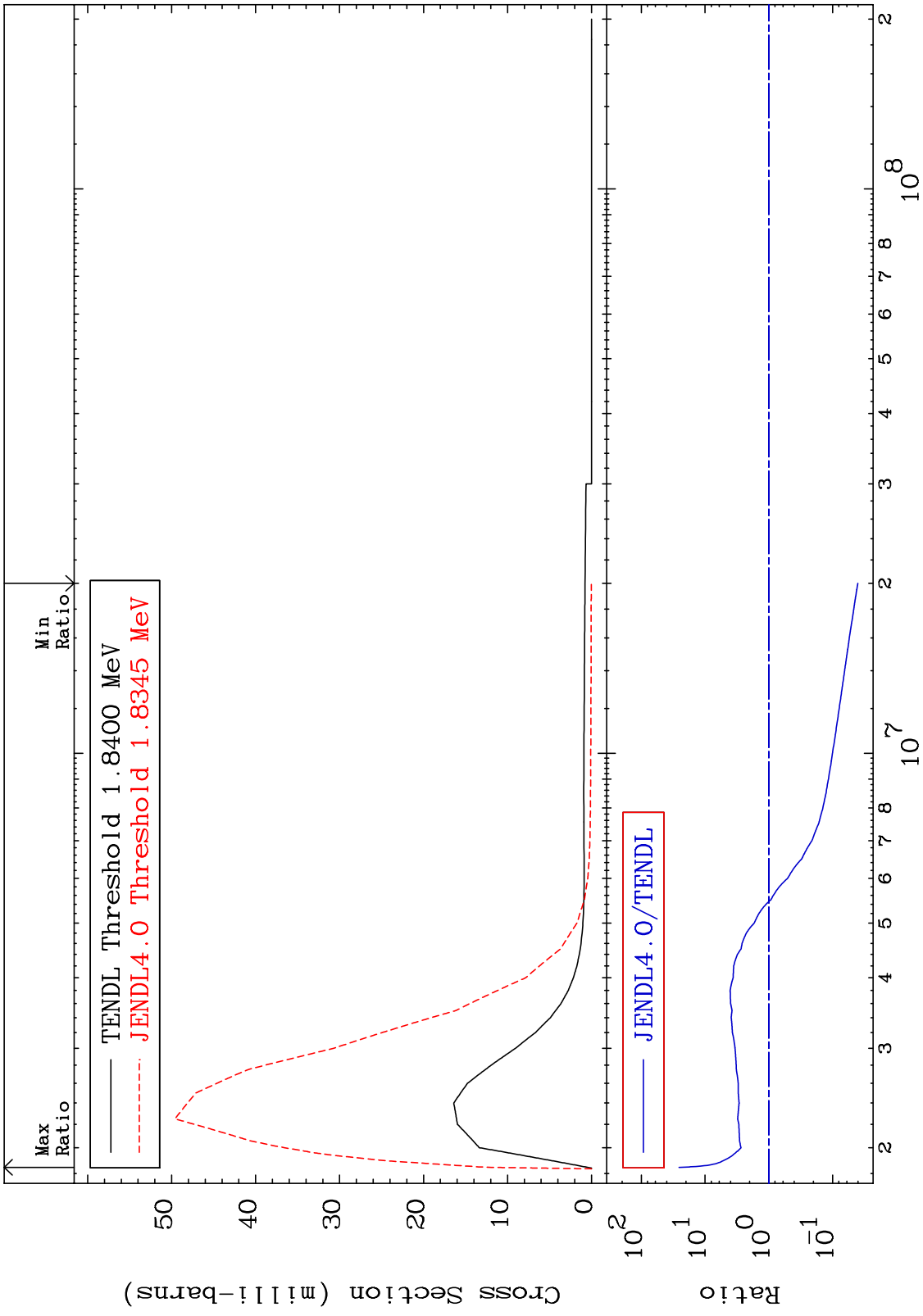
MAT 6243 MT= 75 (n,n') Level Cross Section 62-Sm-150
 -88.89 To 1898. %



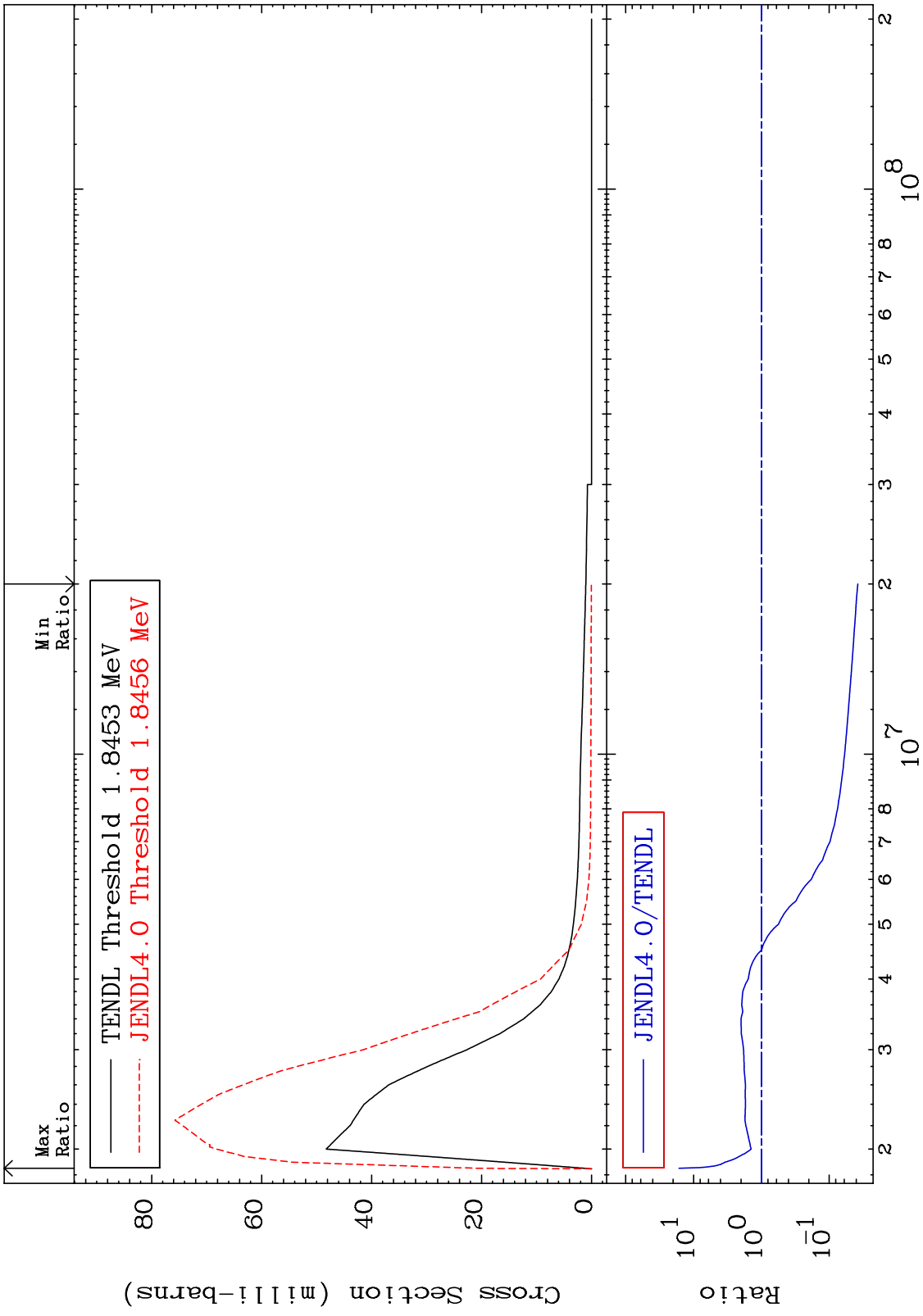
MAT 6243 MT= 76 (n,n') Level Cross Section 62-Sm-150
 -98.81 To 837.3 %



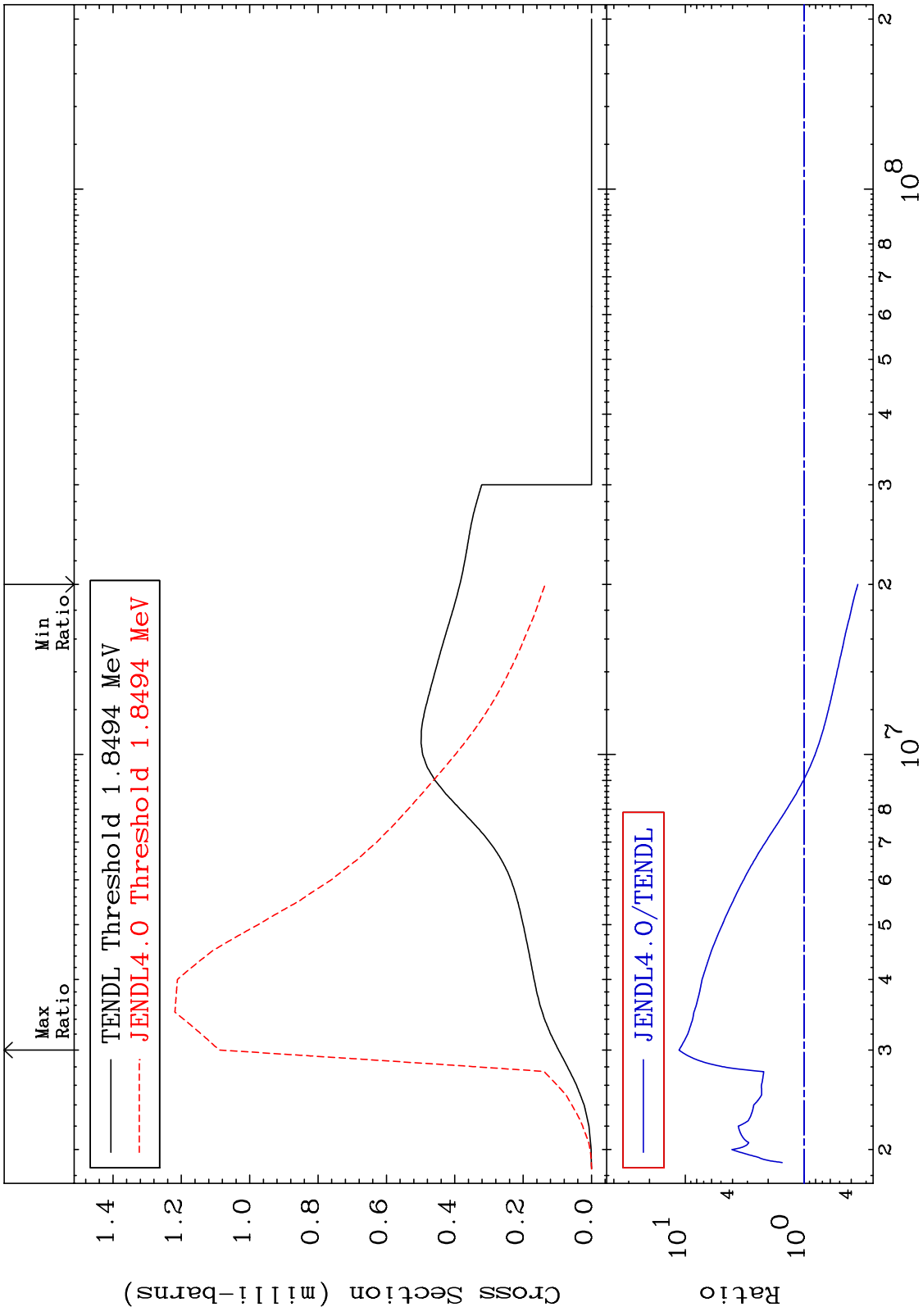
MAT 6243 MT= 77 (n,n') Level Cross Section 62-Sm-150
 -95.97 To 2461. %



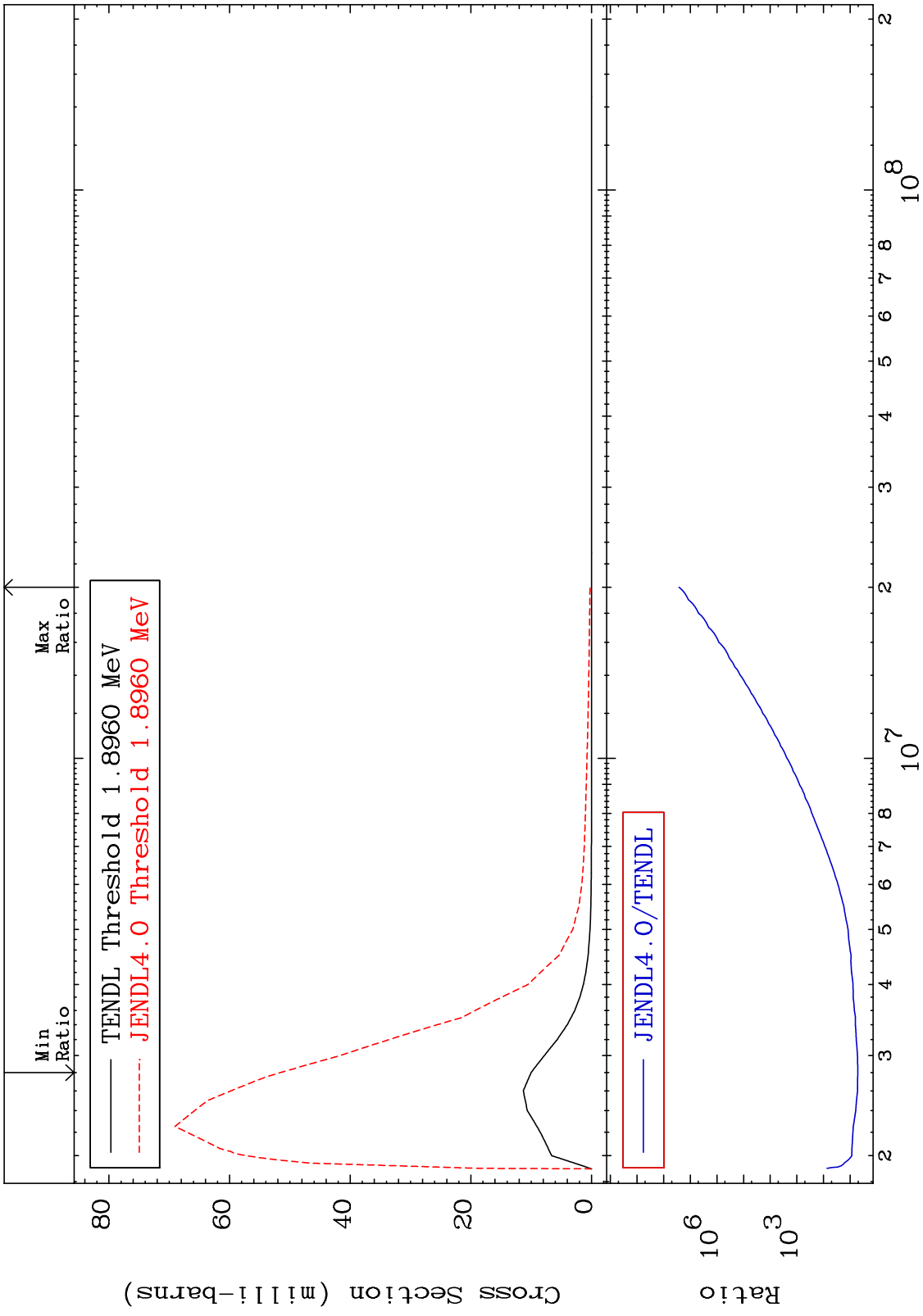
MAT 6243 MT= 78 (n,n') Level Cross Section 62-Sm-150 -96.21 To 1535. %



MAT 6243 MT= 79 (n,n') Level Cross Section 62-Sm-150
 -64.81 To 1028. %



MAT 6243 MT= 80 (n,n') Level Cross Section 62-Sm-150
 414.9 To 9999. %

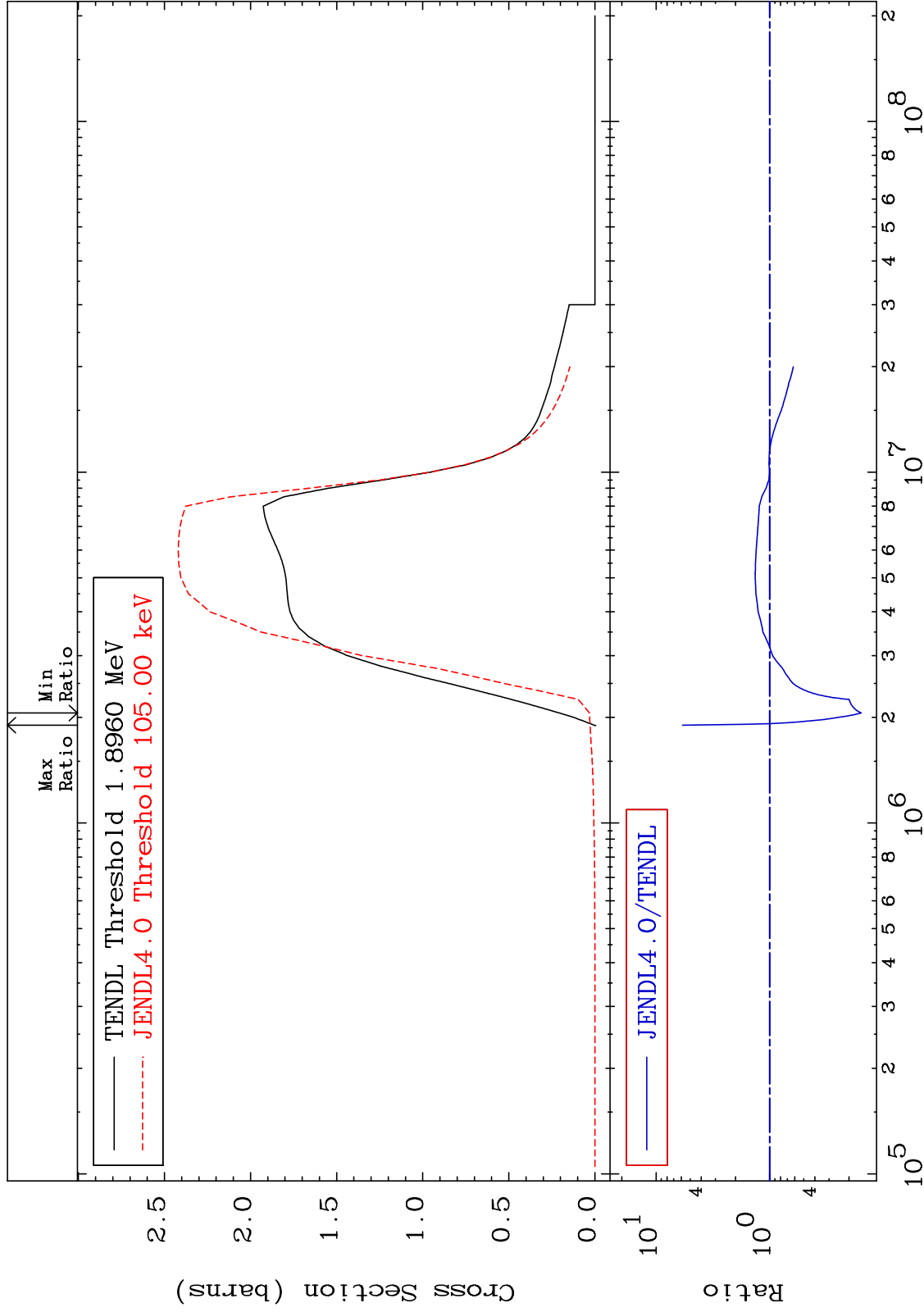


40 Incident Energy (eV) 62-Sm-150

MAT 6243

(n, n') Continuum
Cross Section

62-Sm-150
-84.40 To 485.7 %



41

62-Sm-150

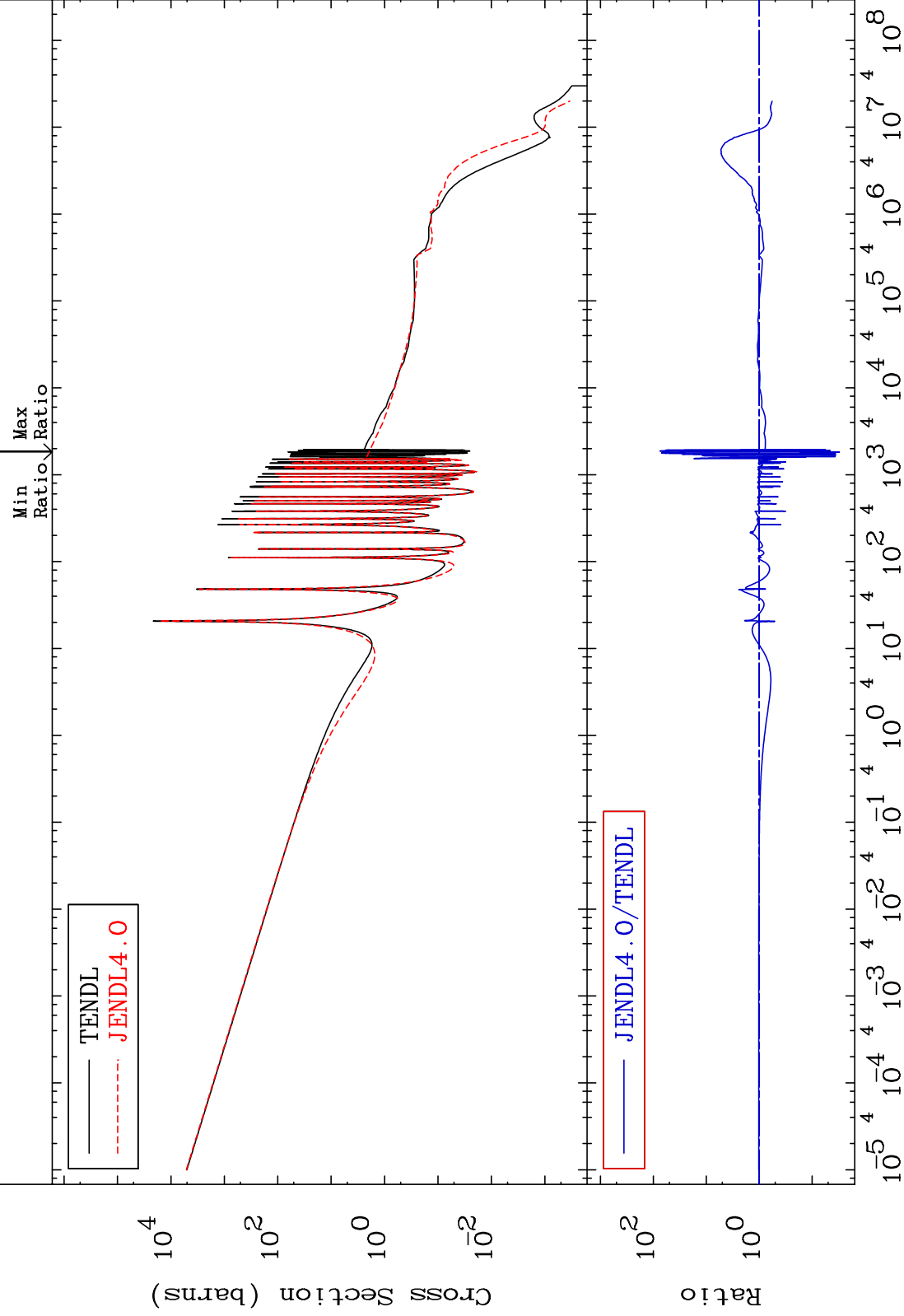
MAT 6243

(n, γ)

62-Sm-150

-96.94 To 7465. %

Cross Section

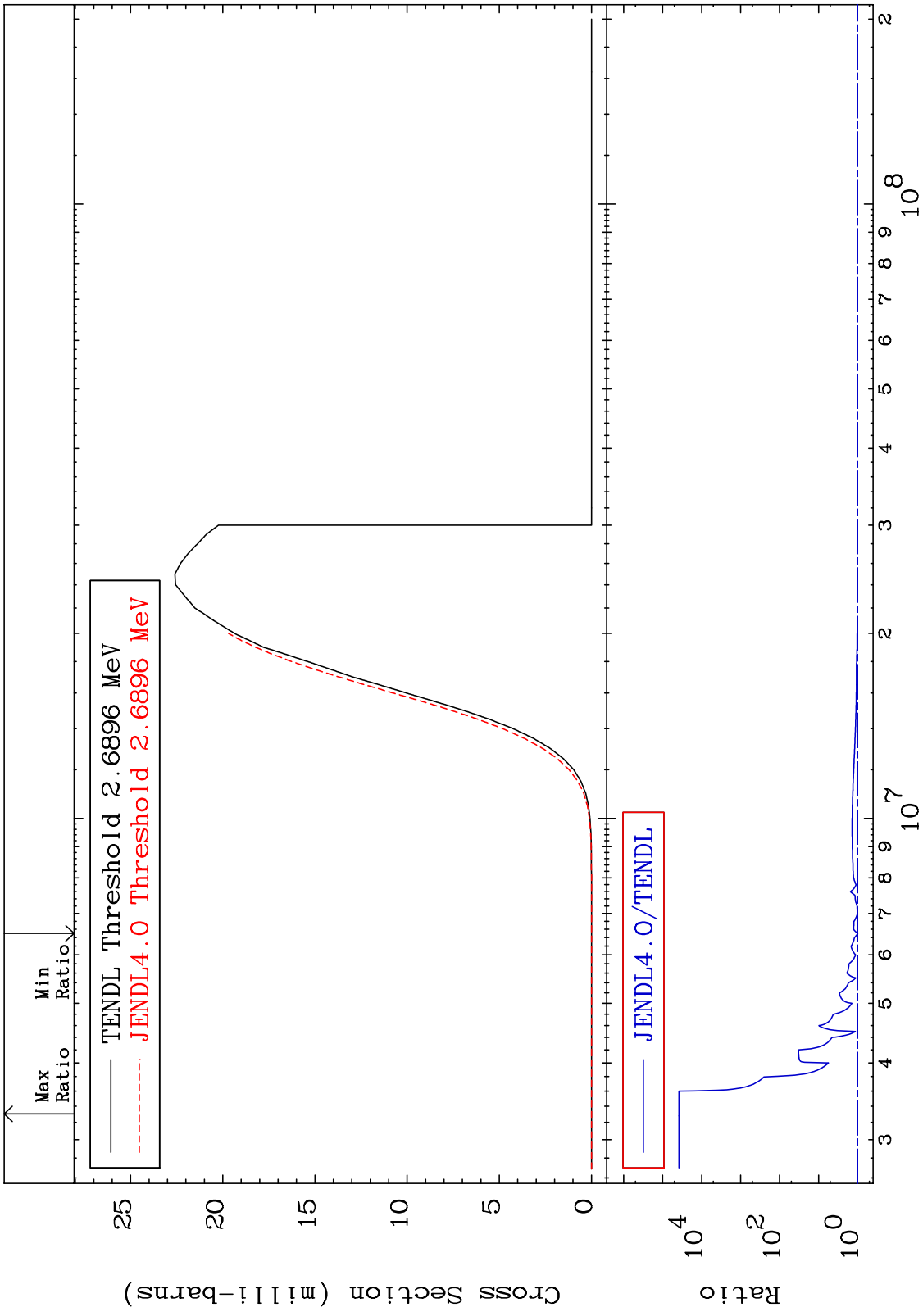


42

Incident Energy (eV)

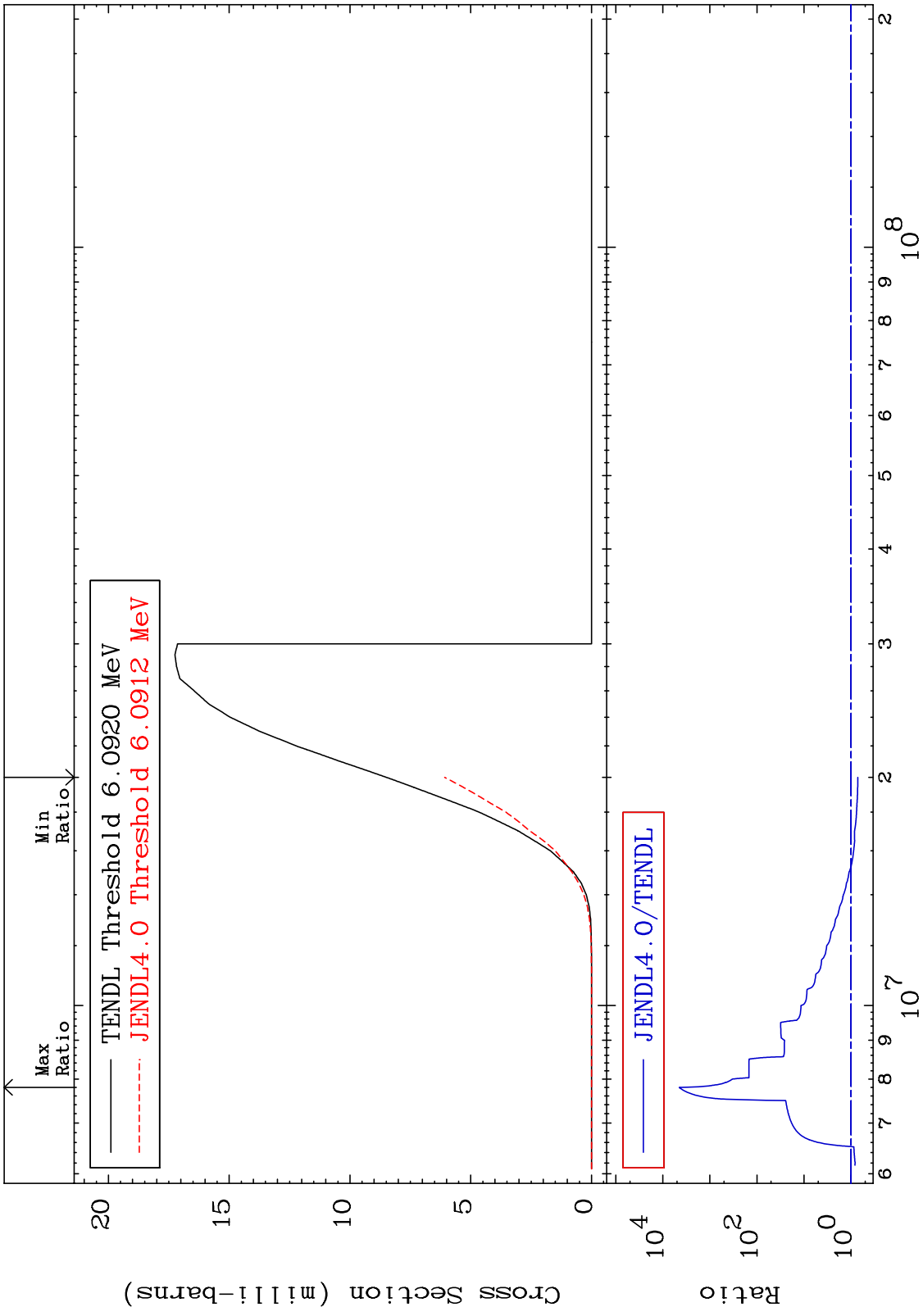
62-Sm-150

MAT 6243 (n,p) 62-Sm-150
 Cross Section -1.769 To 9999. %



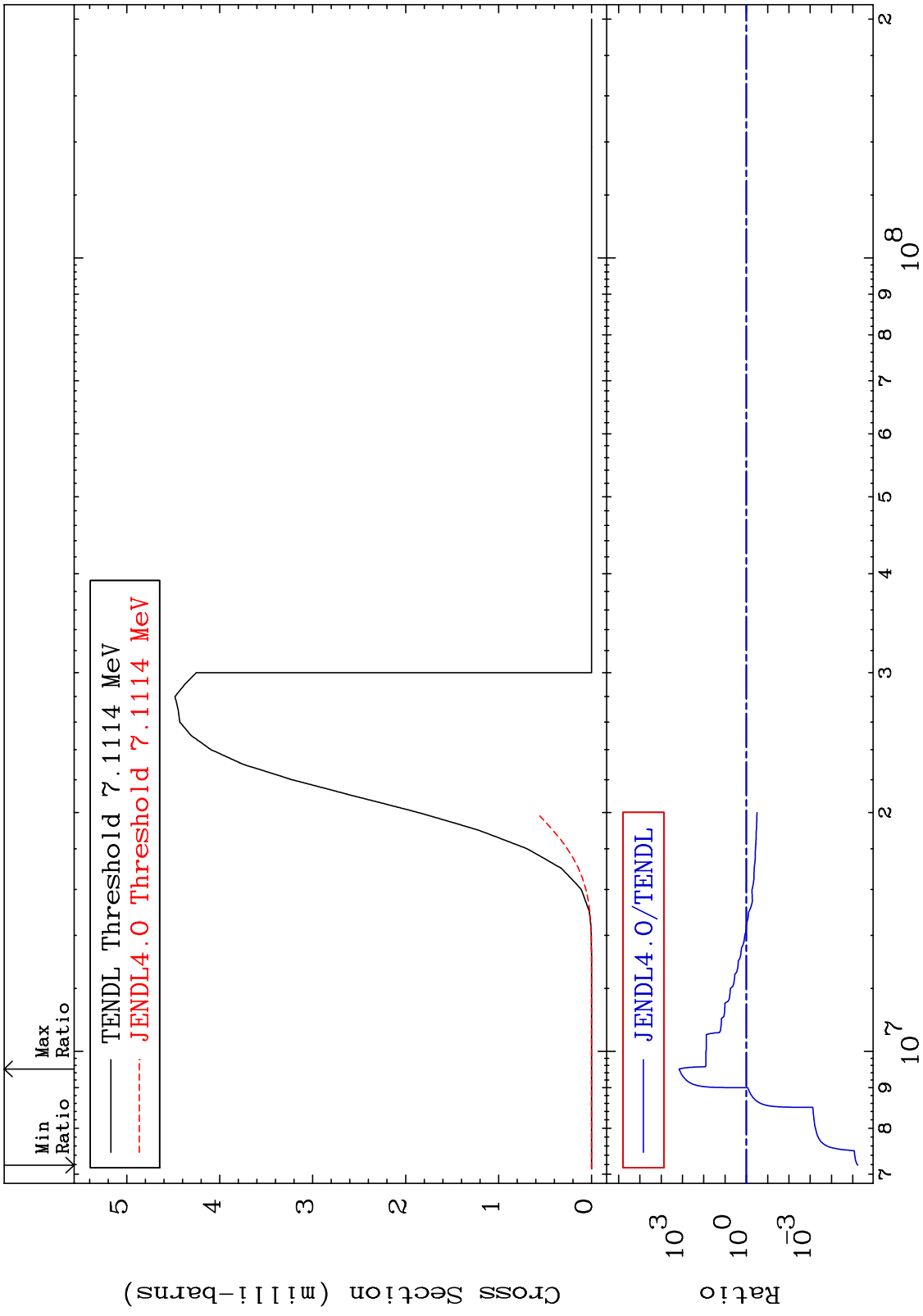
43 62-Sm-150 Incident Energy (eV)

MAT 6243 (n,d) Cross Section 62-Sm-150
 -28.39 To 9999. %

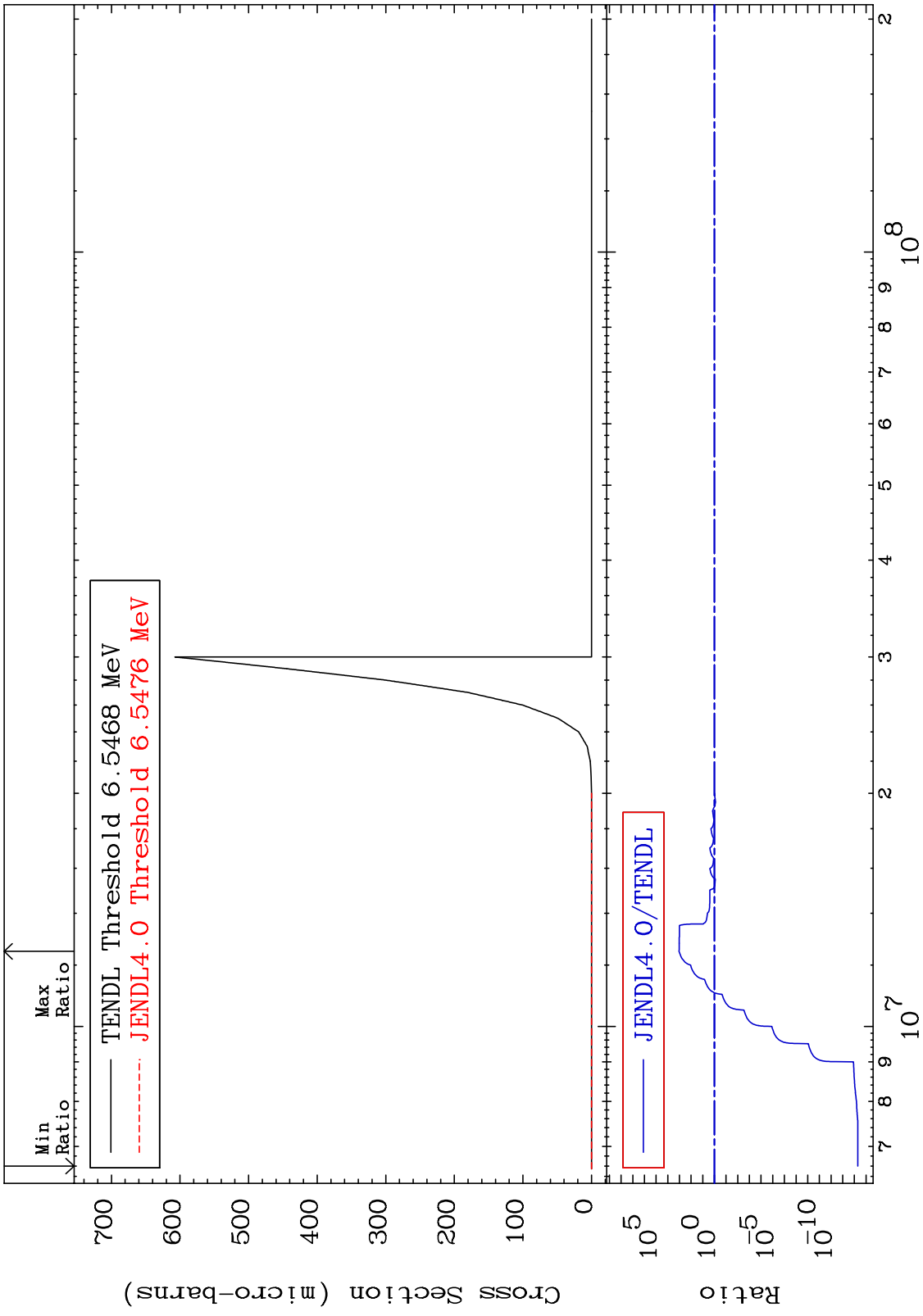


44 Incident Energy (eV) 62-Sm-150

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



MAT 6243 (n, He-3) 62-Sm-150
 Cross Section -100.0 To 9999. %



MAT 6243

(n, α)

62-Sm-150

-53.60 To 9999. %

Cross Section

Max Ratio

Min Ratio

— TENDL
- - - JENDL4.0

10^{-2}

10^{-4}

10^{-6}

10^{-8}

10^{-10}

— JENDL4.0/TENDL

10^3

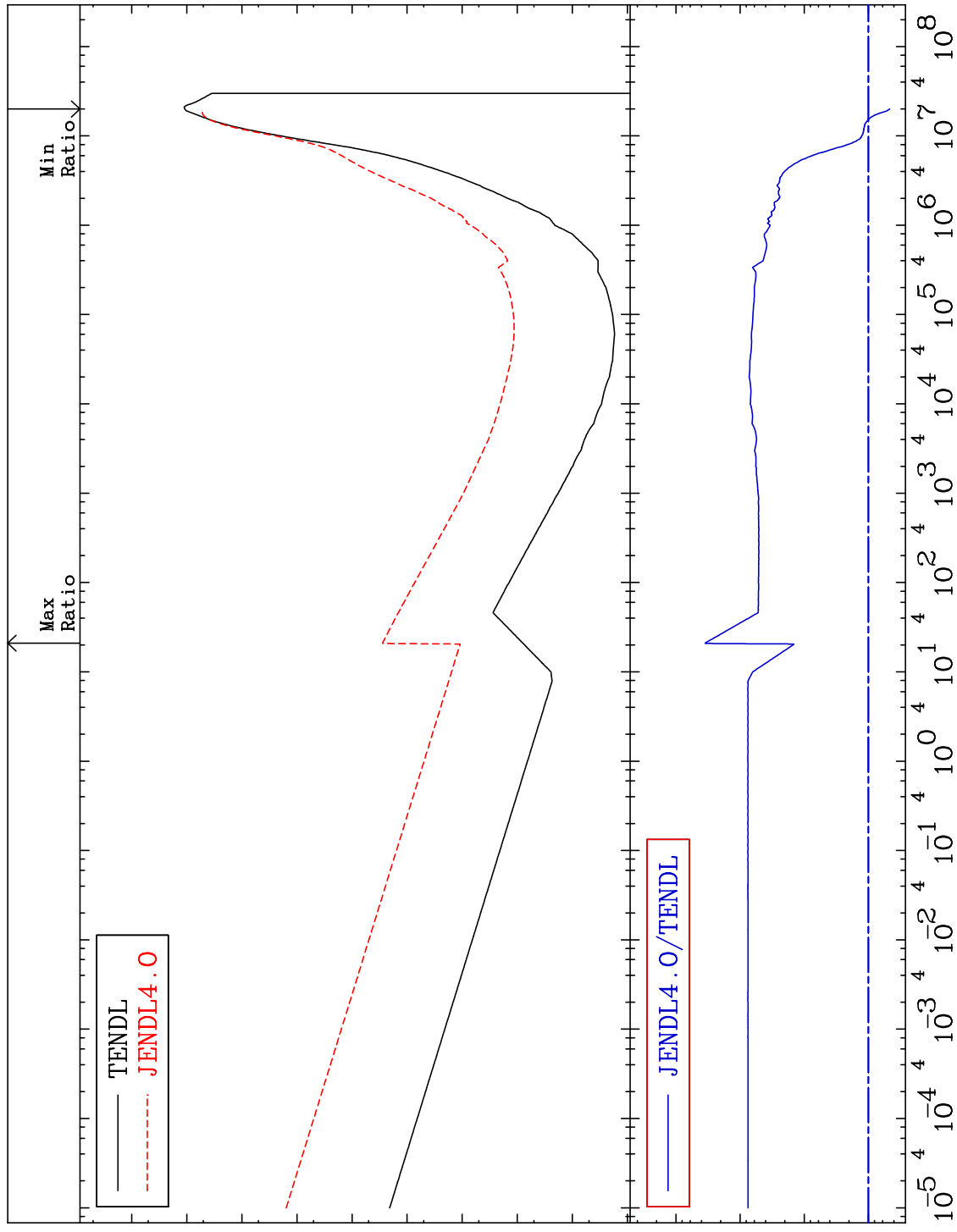
10^2

10^1

10^0

Incident Energy (eV)

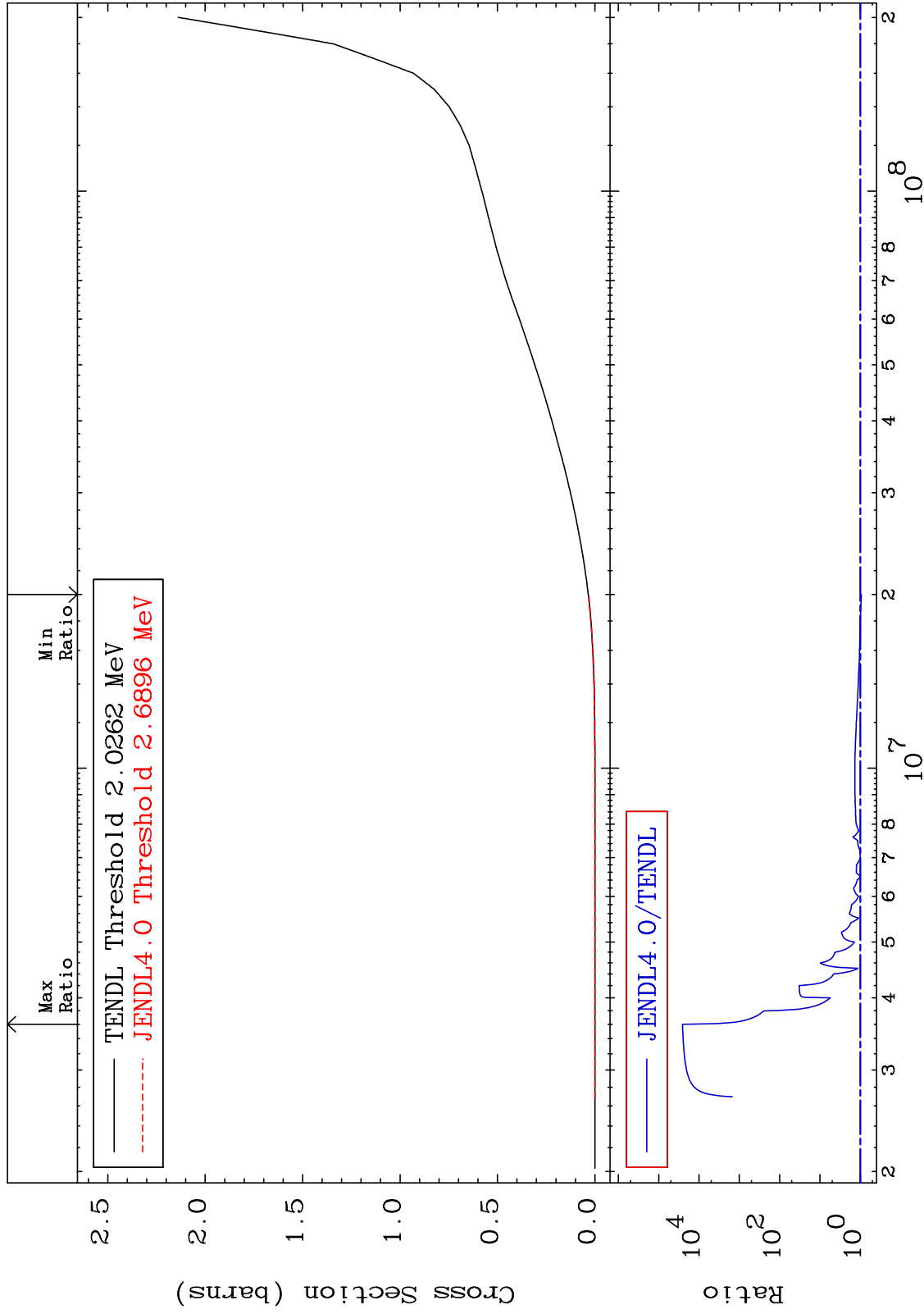
62-Sm-150



MAT 6243

Hydrogen Production
Cross Section

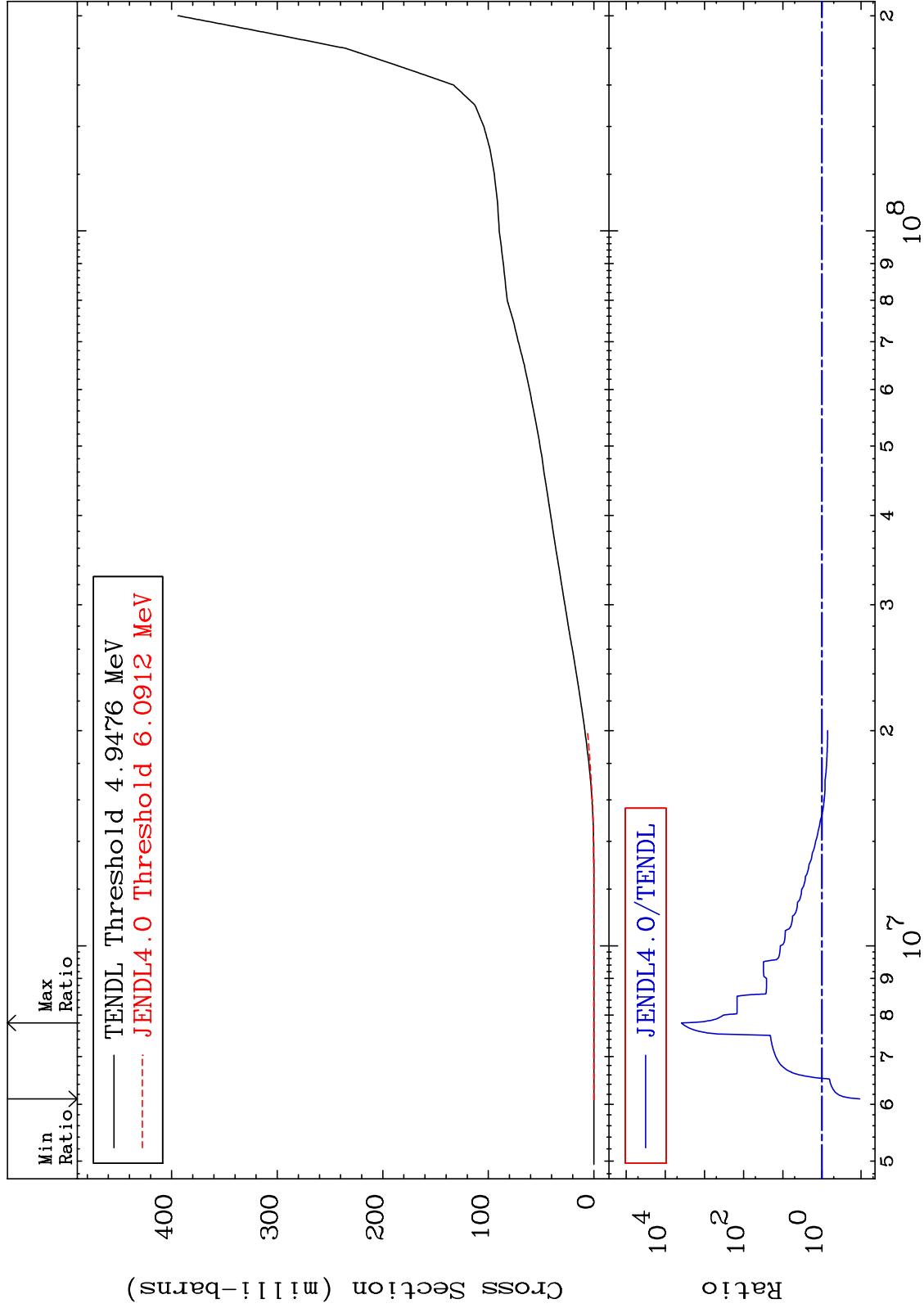
62-Sm-150
-5.367 To 9999. %



MAT 6243

Deuterium Production
Cross Section

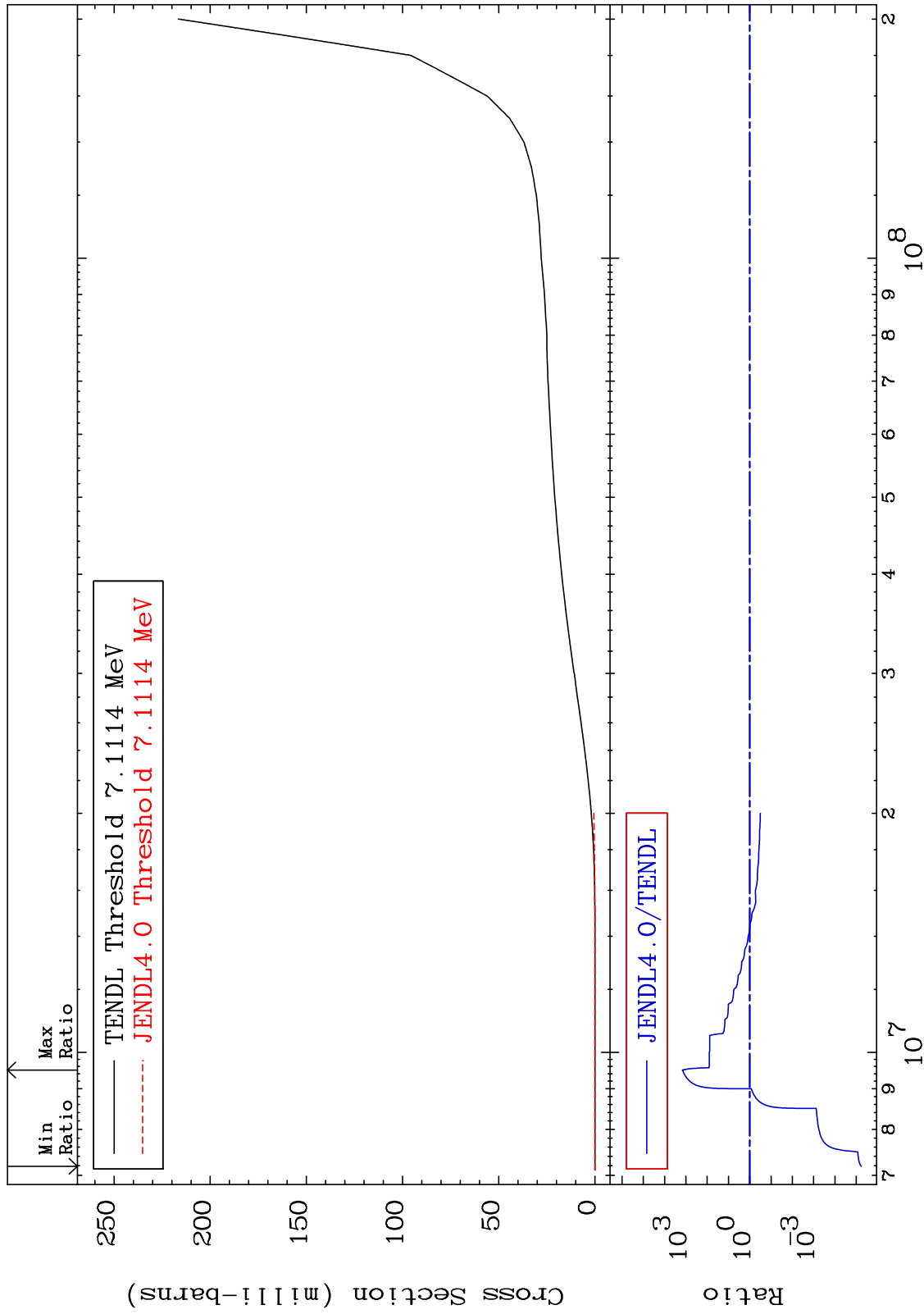
62-Sm-150
-89.16 To 9999. %



MAT 6243

Tritium Production
Cross Section

62-Sm-150
-100.0 To 9999. %

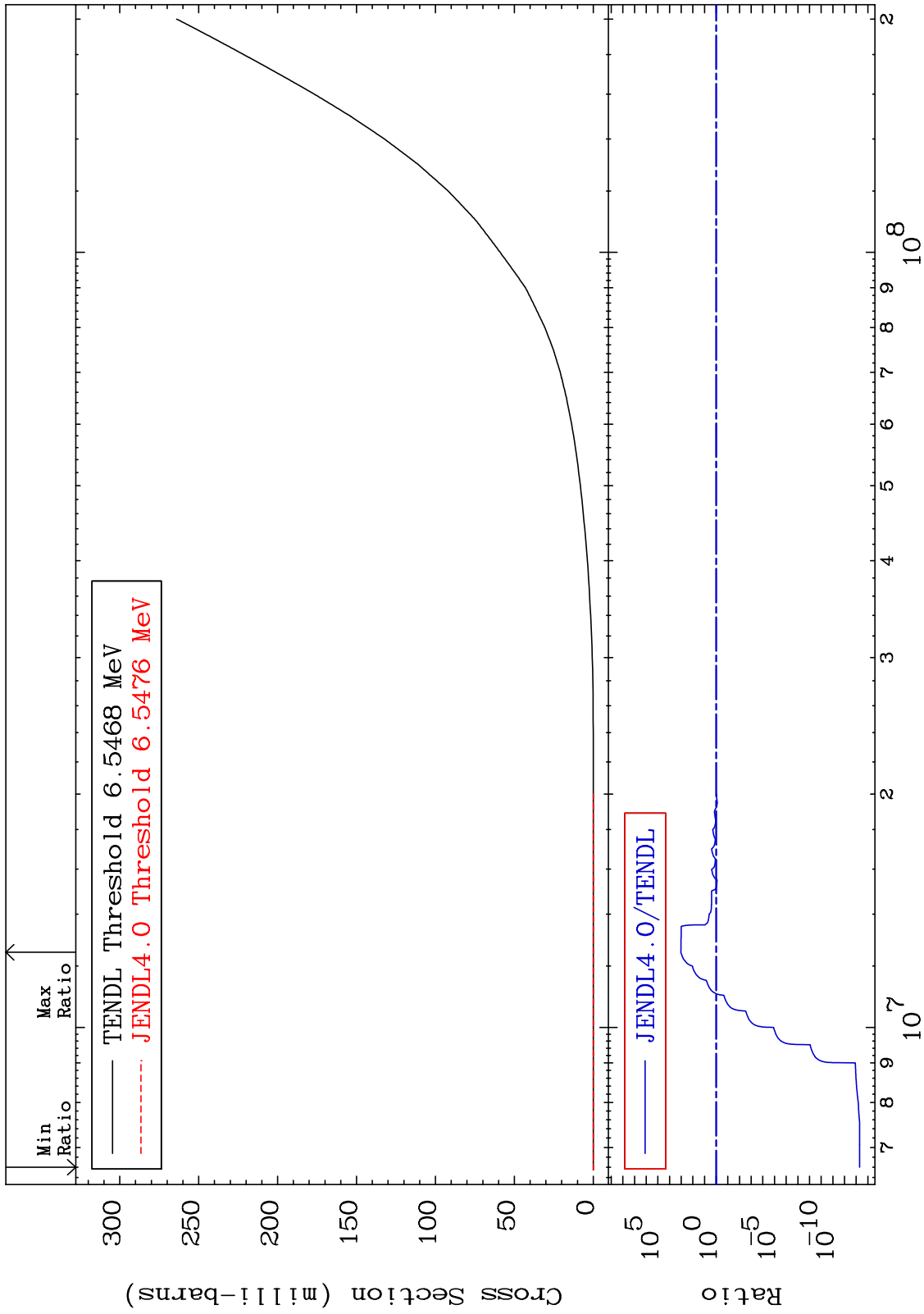


50

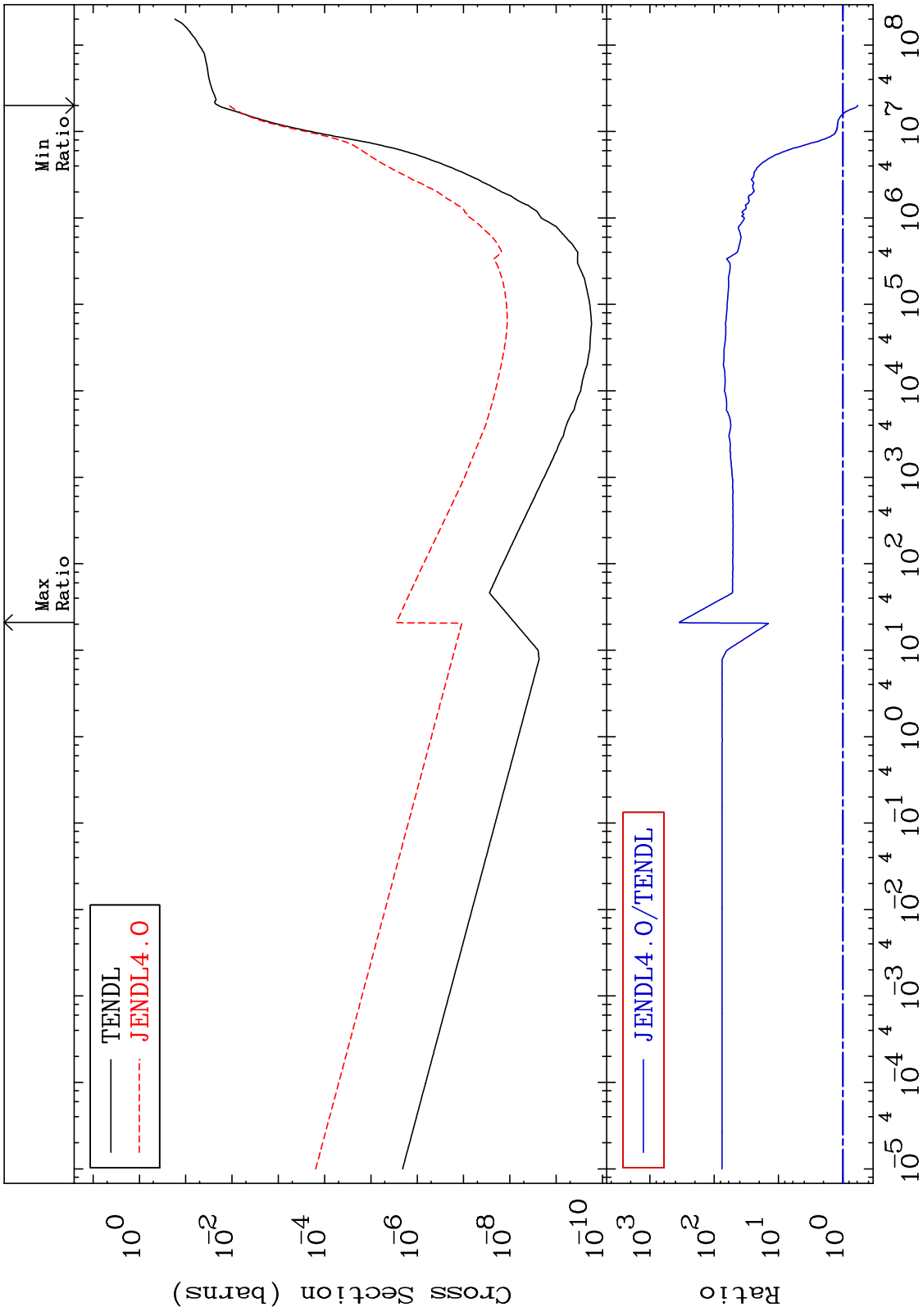
Incident Energy (eV)

62-Sm-150

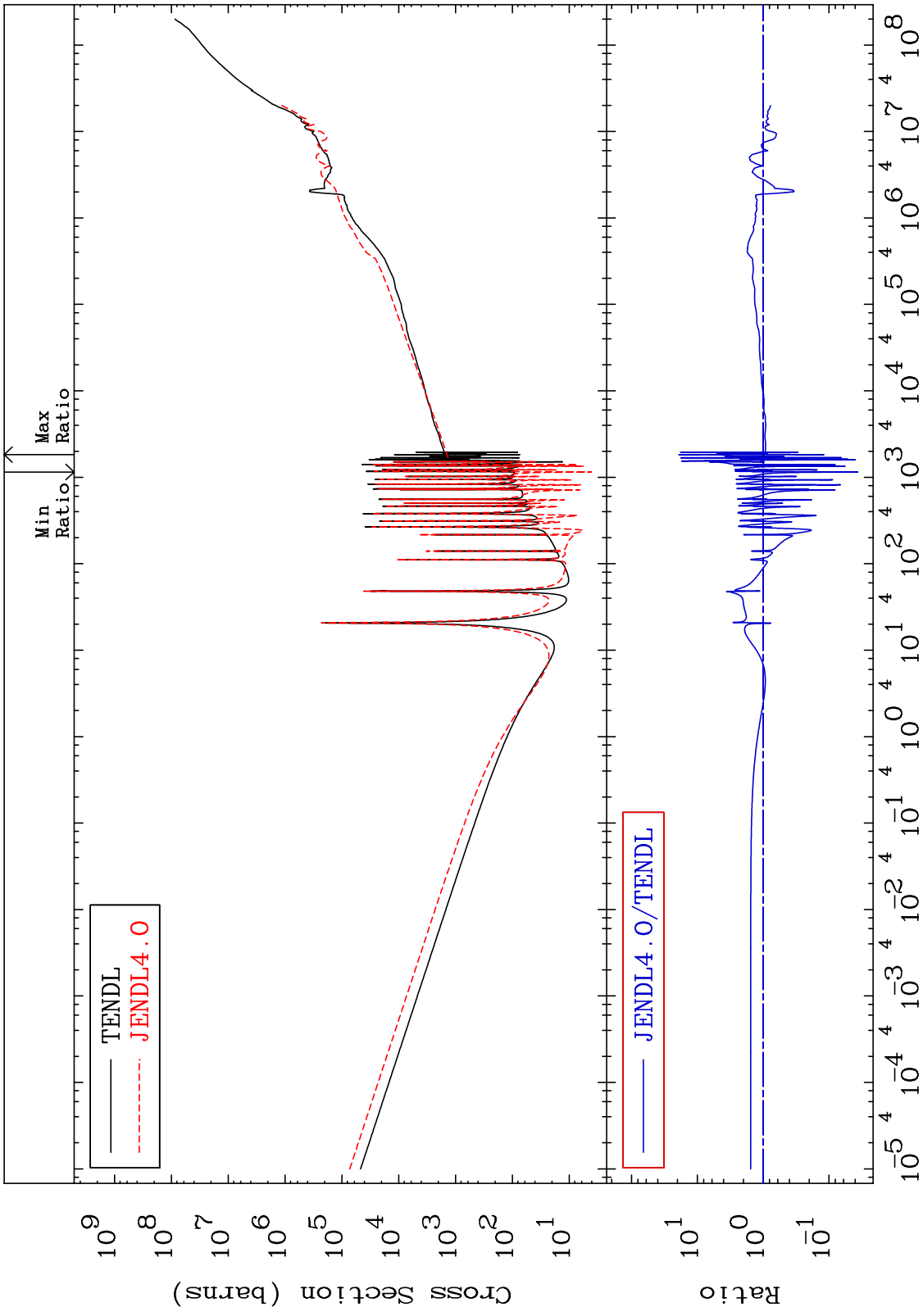
MAT 6243 He-3 Production Cross Section 62-Sm-150
 -100.0 To 9999. %



MAT 6243 He-4 Production Cross Section 62-Sm-150
 -41.55 To 9999. %



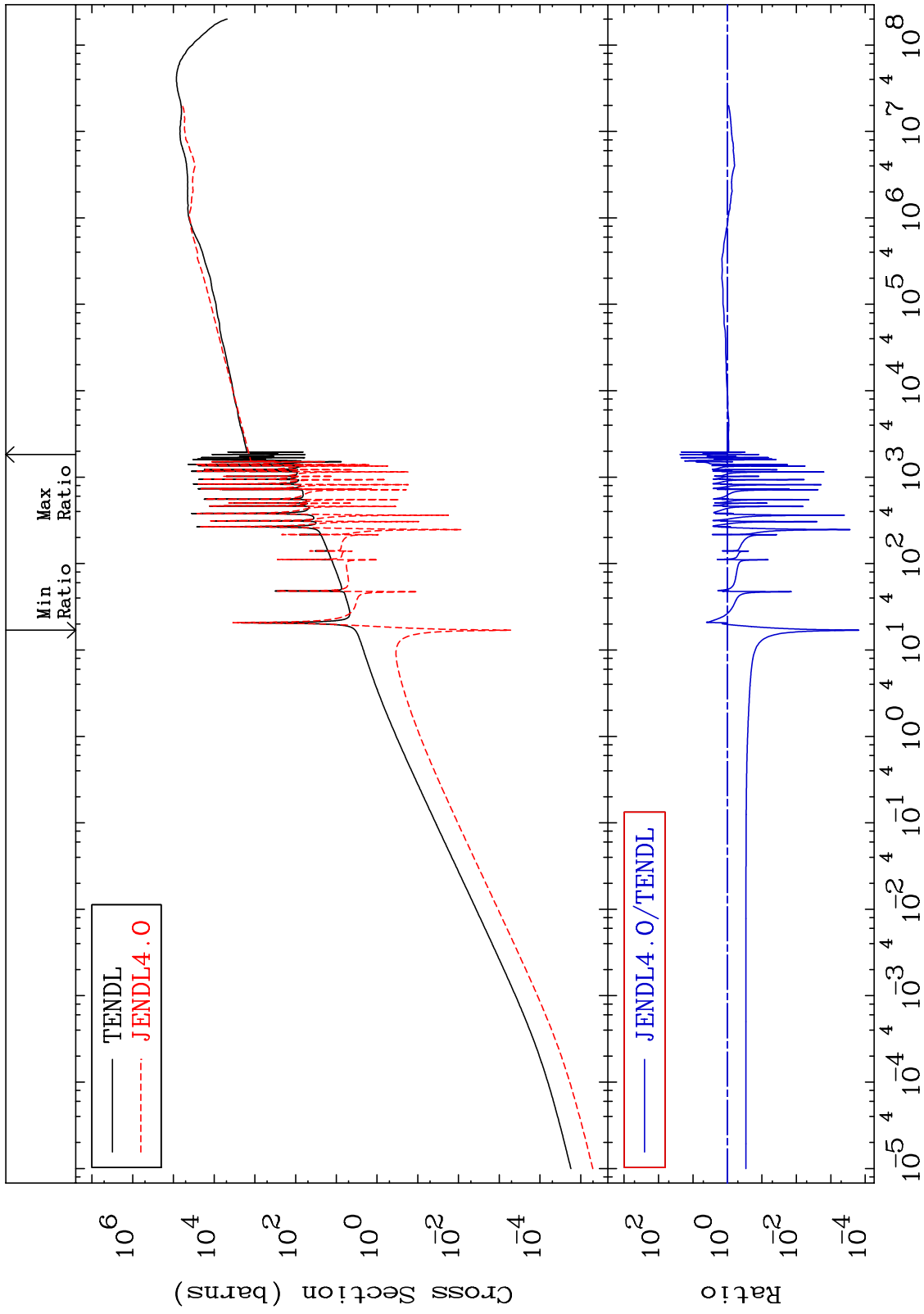
MAT 6243 Kerma total (eV-barns) 62-Sm-150
 Cross Section -96.36 To 1798. %



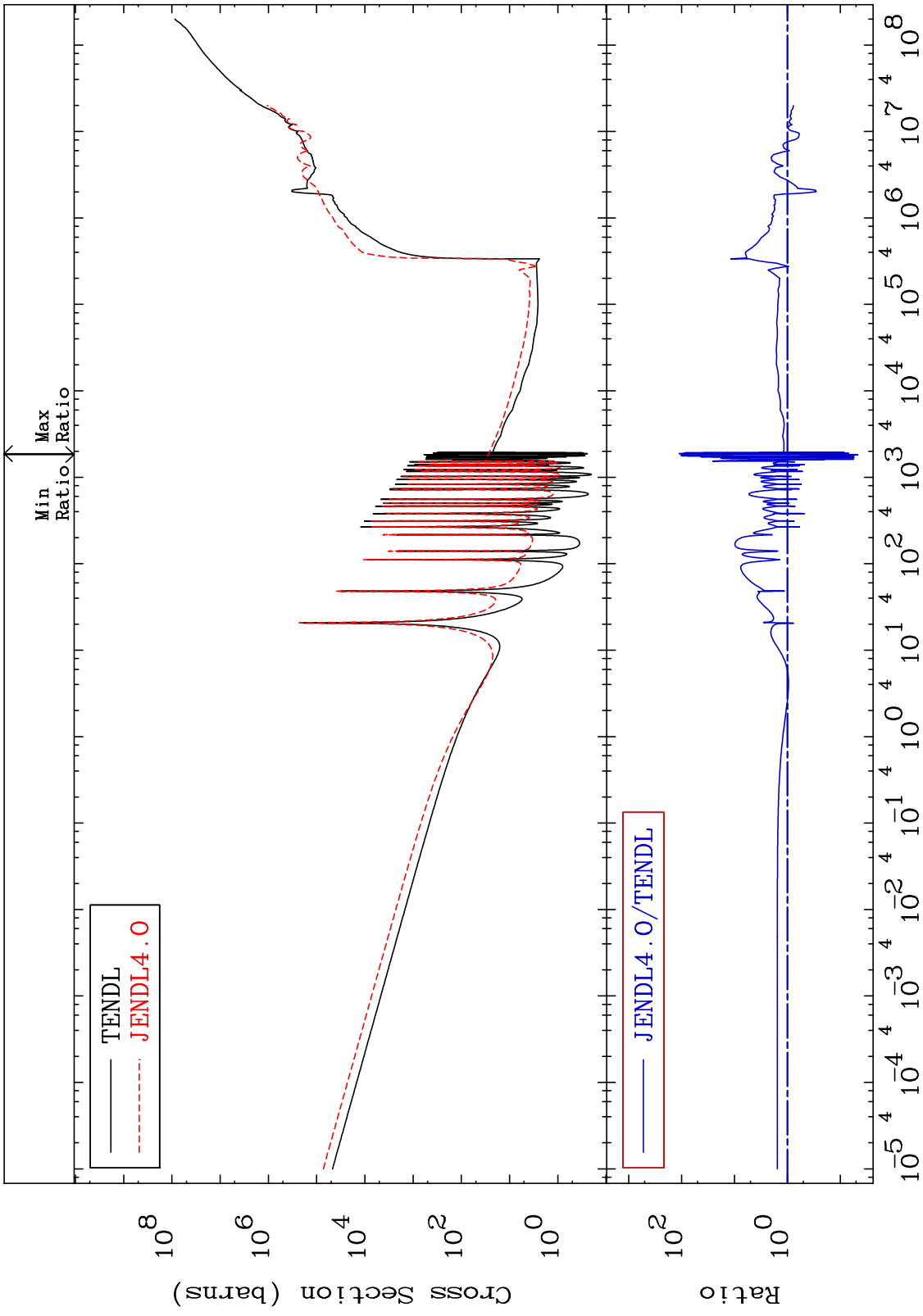
MAT 6243

Kerma elastic
Cross Section

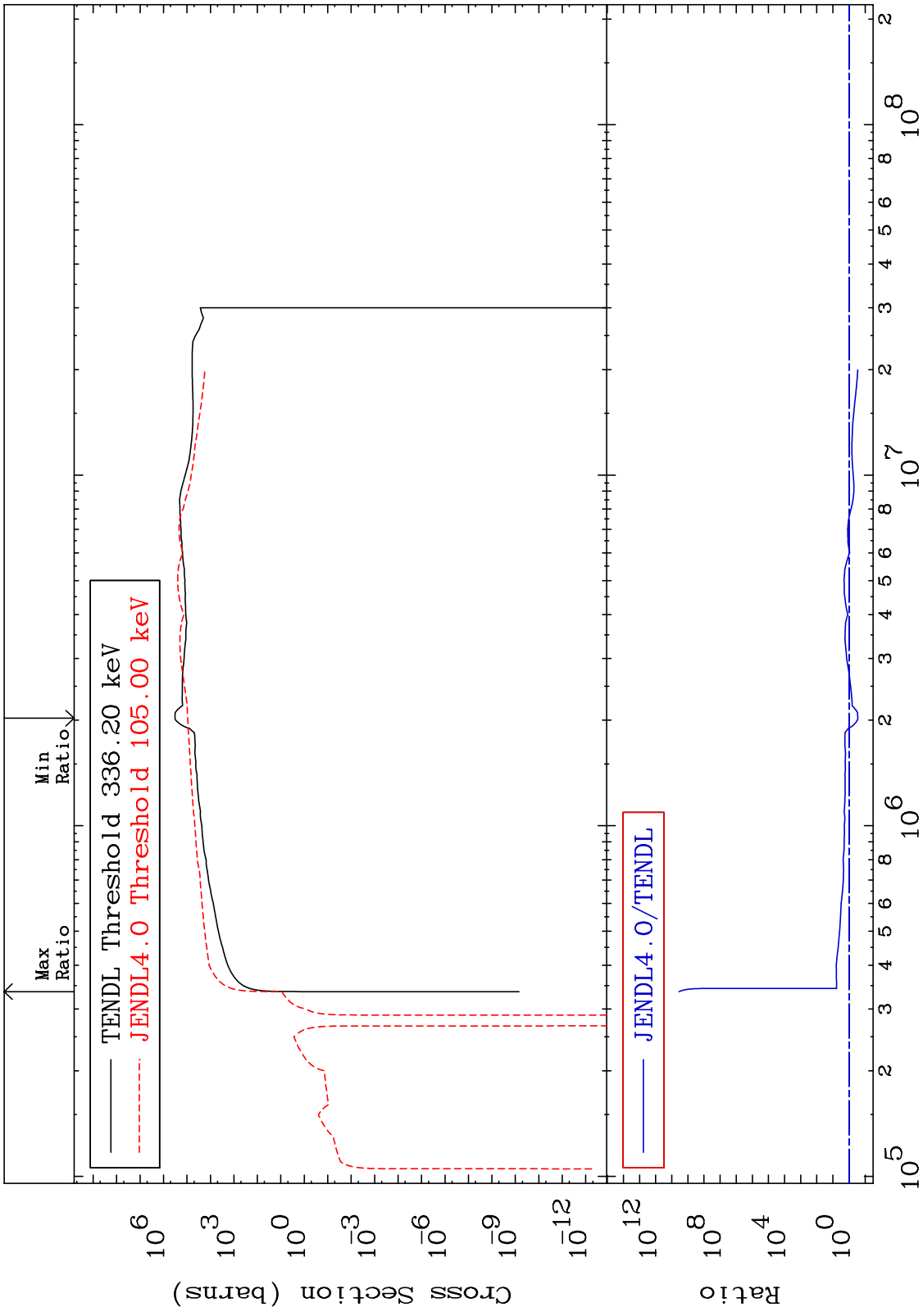
62-Sm-150
-99.98 To 2246. %



MAT 6243 Kerma non-elastic (all but mt.2) Cross Section 62-Sm-150
 -95.35 To 9999. %



MAT 6243 Kerma inelastic (mt51-91) 62-Sm-150
 Cross Section -71.58 To 9999. %

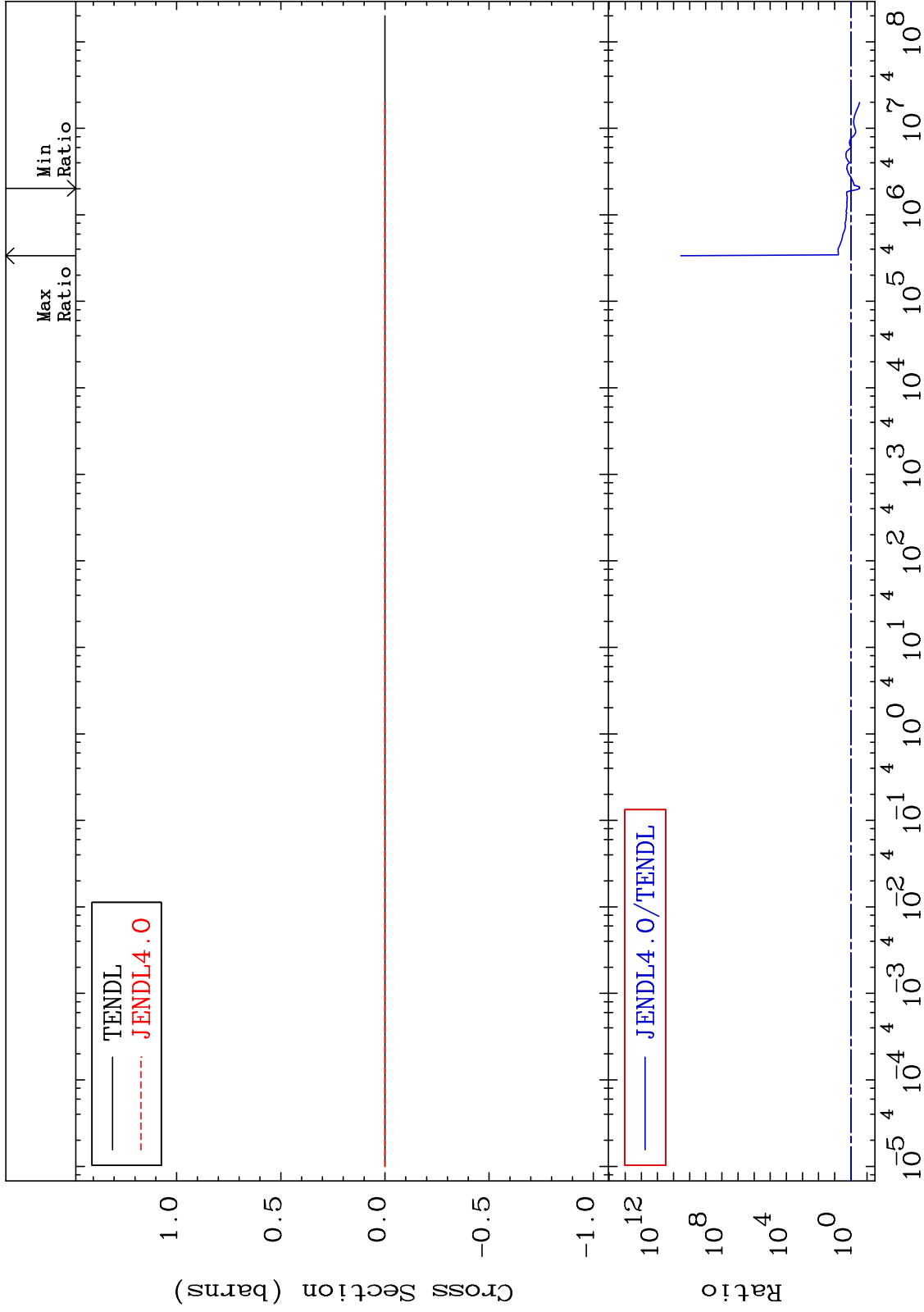


56 Incident Energy (eV) 62-Sm-150

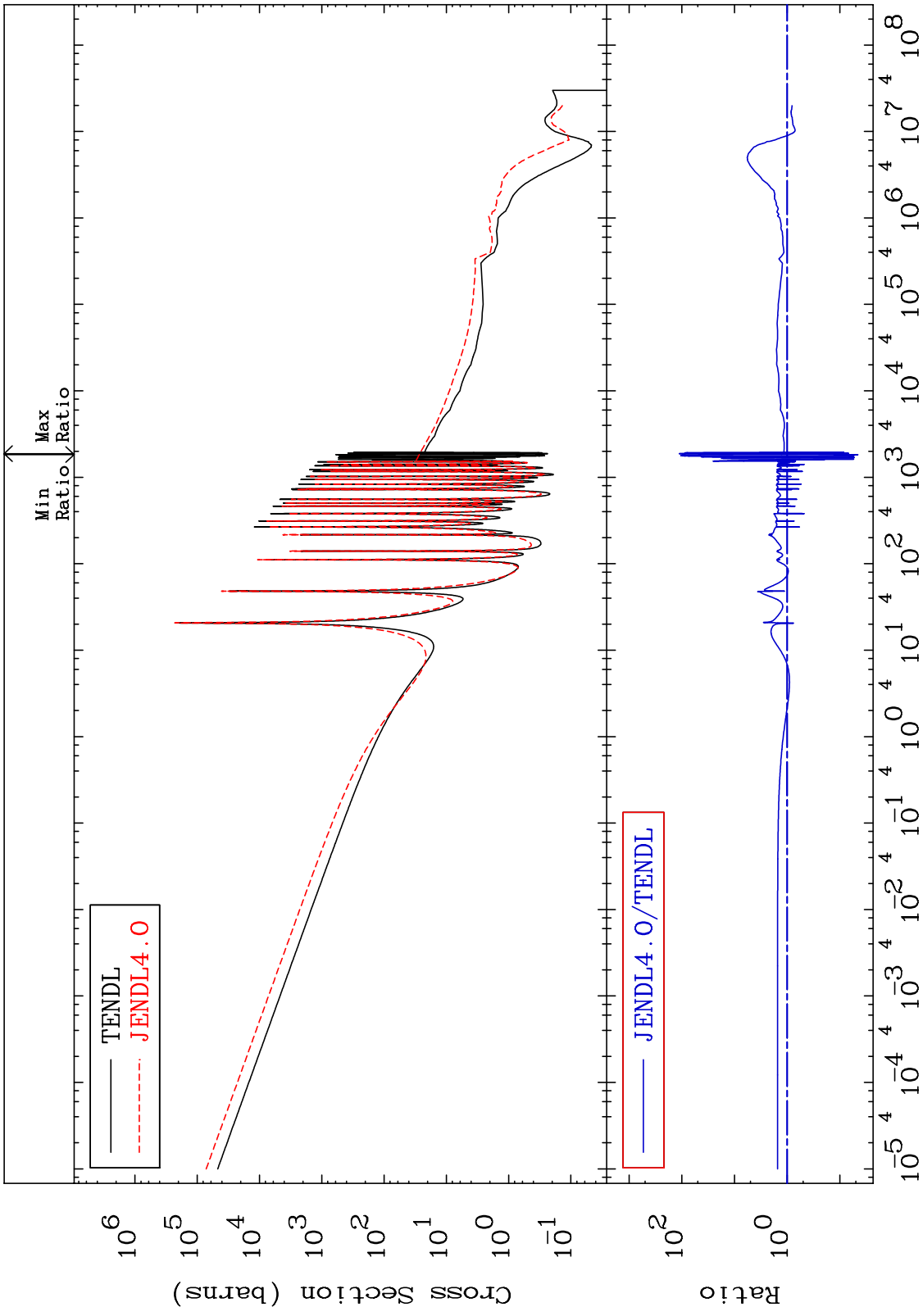
MAT 6243

Kerma fission (mt18 or mt19-20-21-38)
Cross Section

62-Sm-150
-71.58 To 9999. %



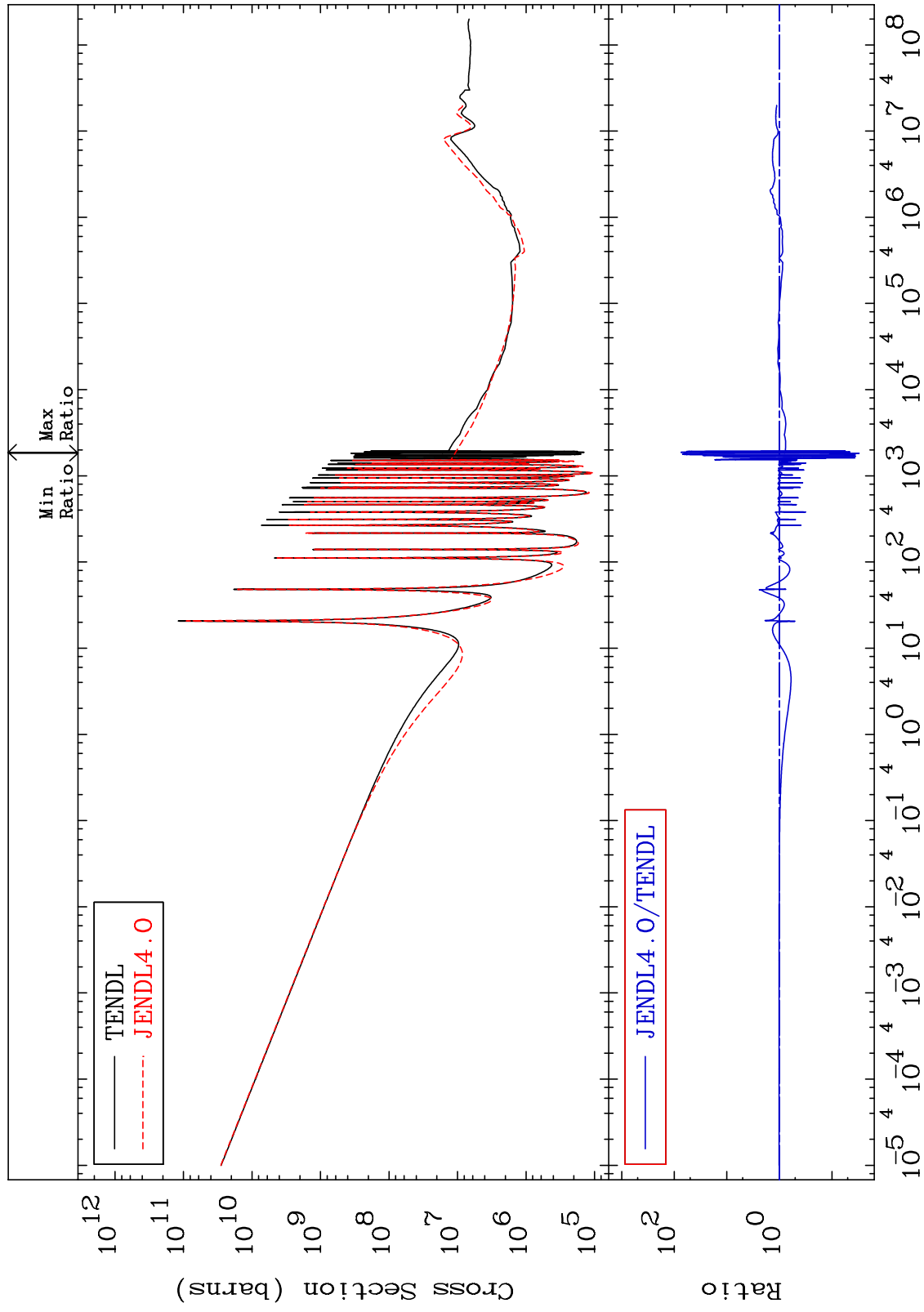
MAT 6243 Kerma capture (mt102) 62-Sm-150
 Cross Section -95.42 To 9999. %



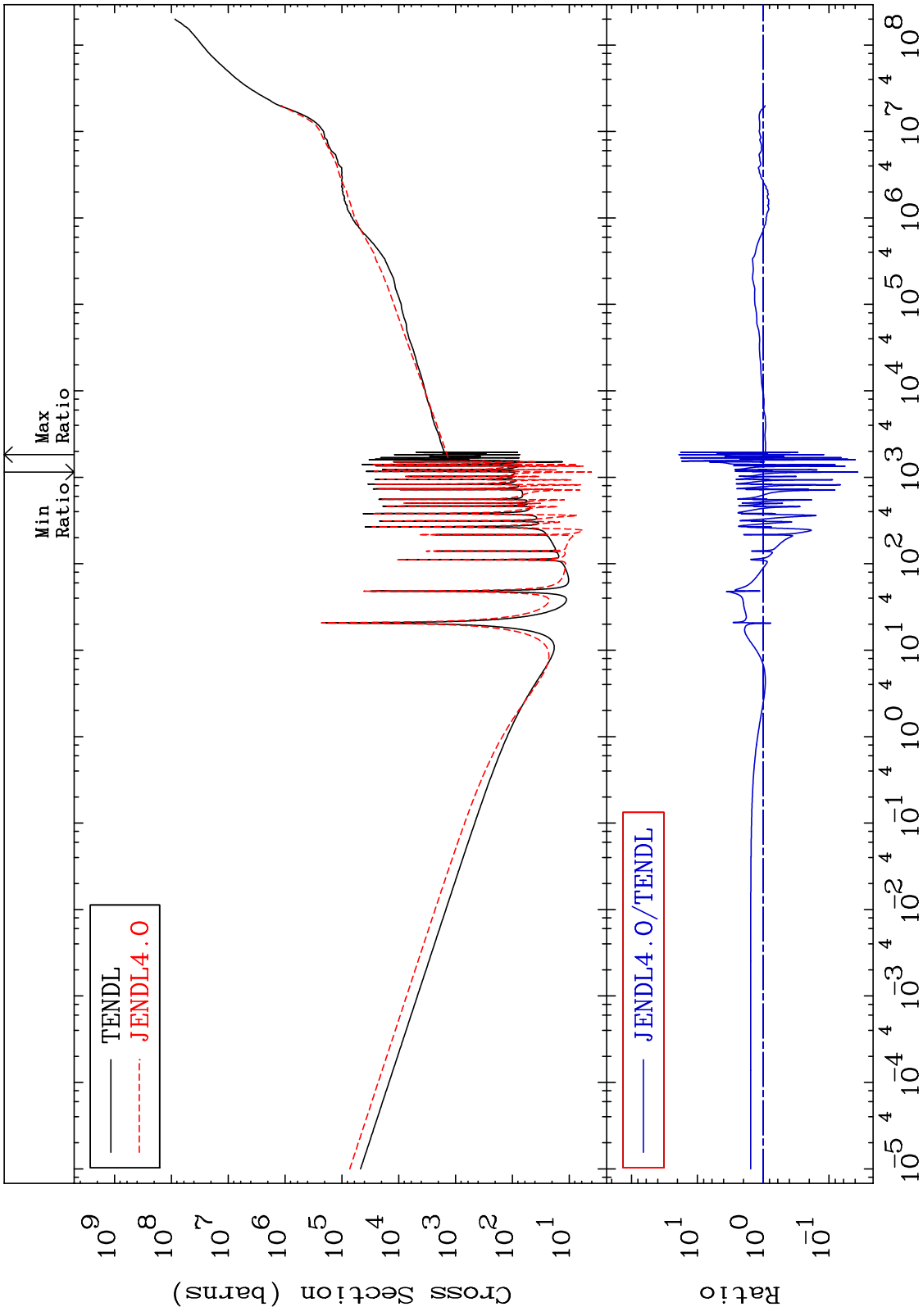
MAT 6243

Total photon (eV-barns)
Cross Section

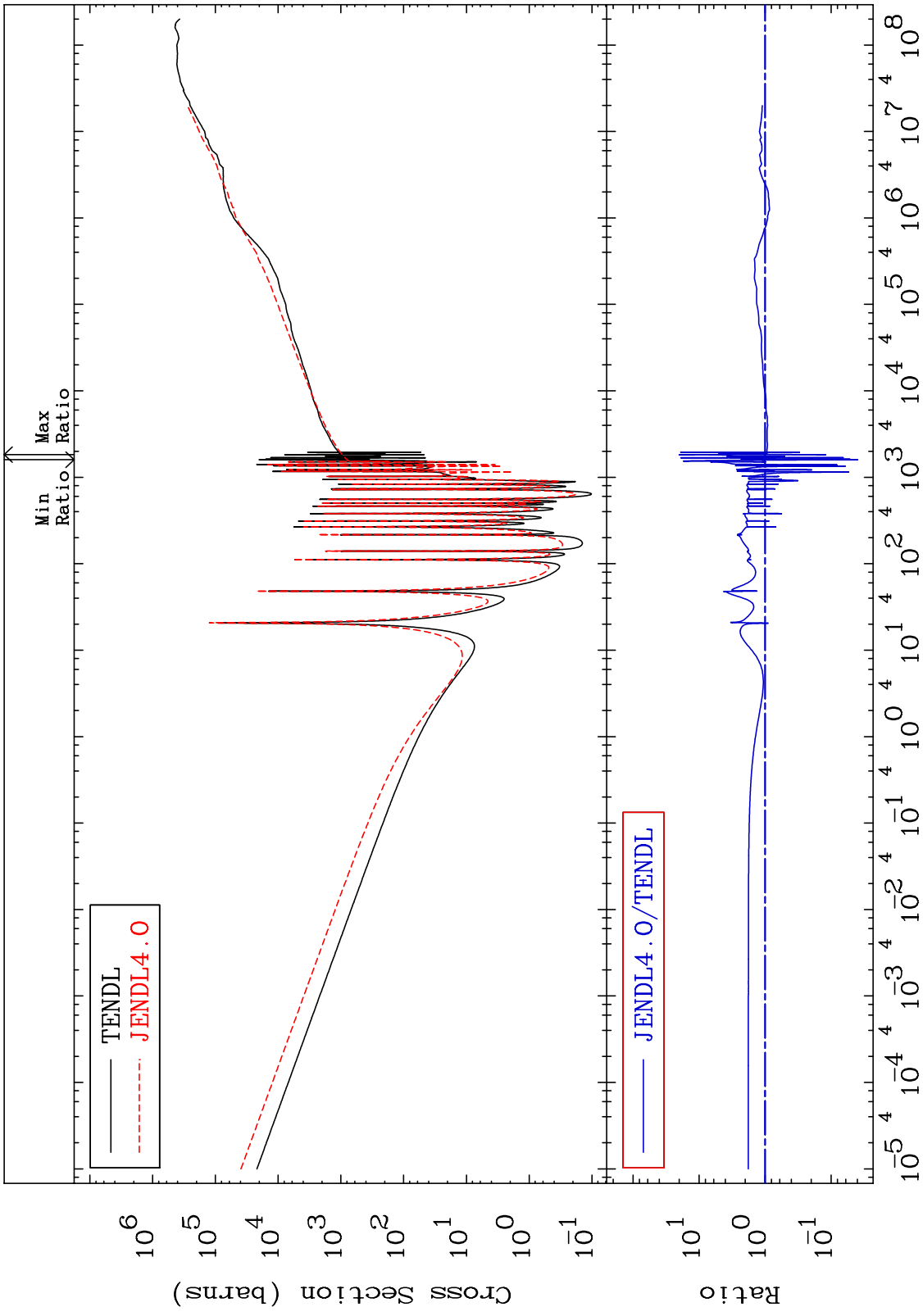
62-Sm-150
-96.96 To 7413. %



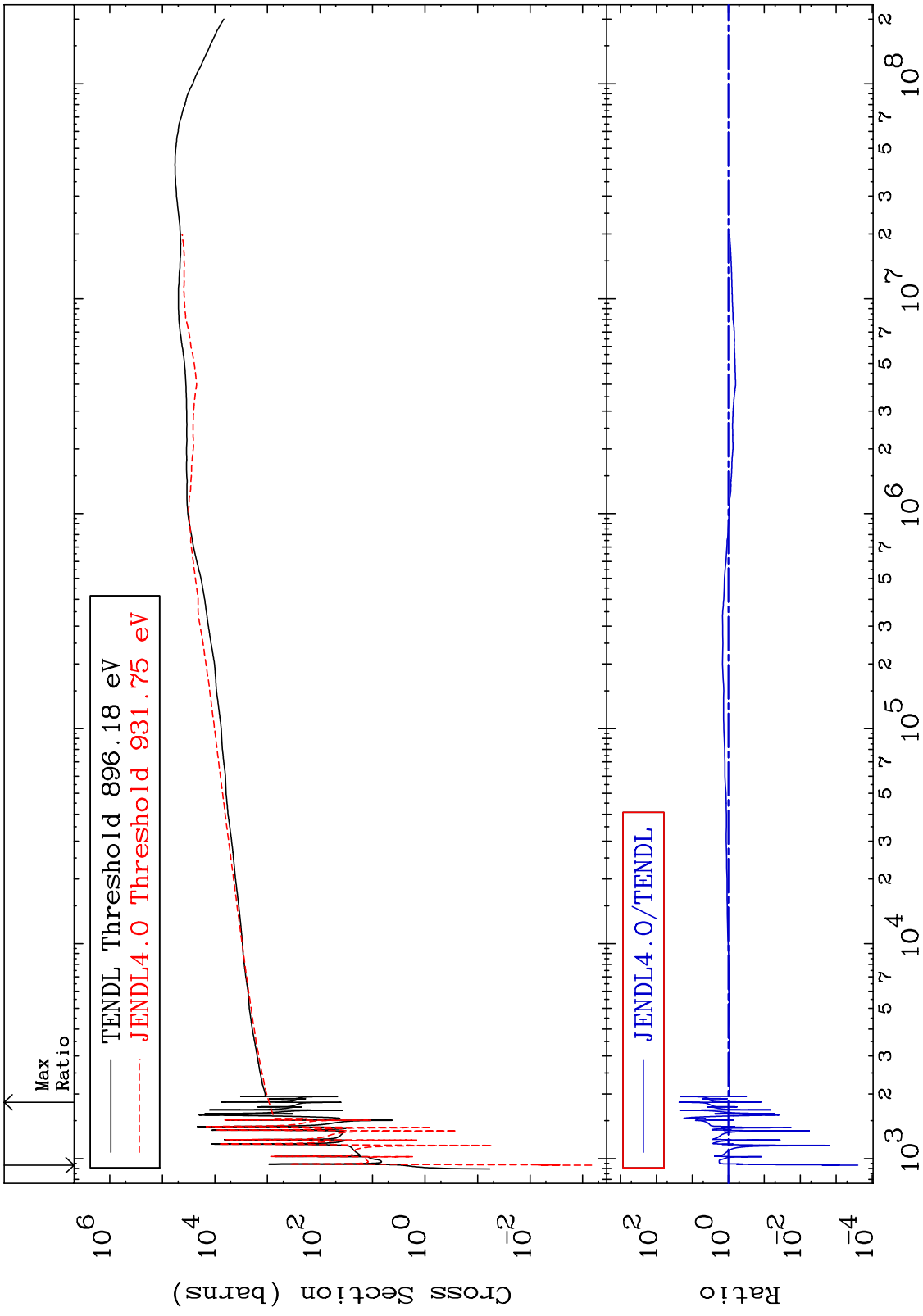
MAT 6243 Total kinematic kerma (high limit) 62-Sm-150
 Cross Section -96.36 To 1798. %



MAT 6243 Dpa total (eV-barns) 62-Sm-150
 Cross Section -96.06 To 1915. %



MAT 6243 Dpa elastic (mt2) 62-Sm-150
Cross Section -99.97 To 2245. %

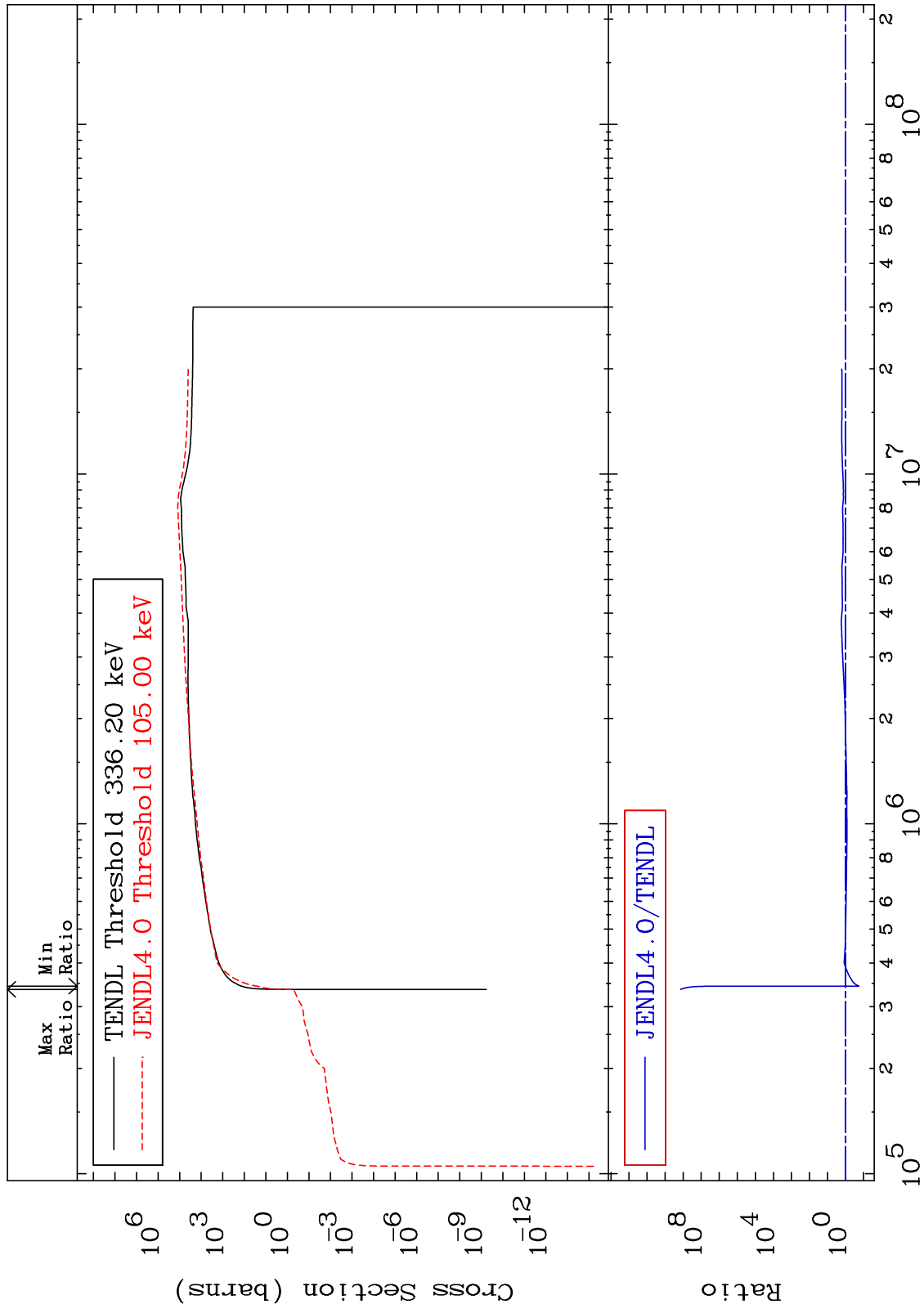


62 Incident Energy (eV) 62-Sm-150

MAT 6243

Dpa inelastic (mt51-91)
Cross Section

62-Sm-150
-81.94 To 9999. %



63

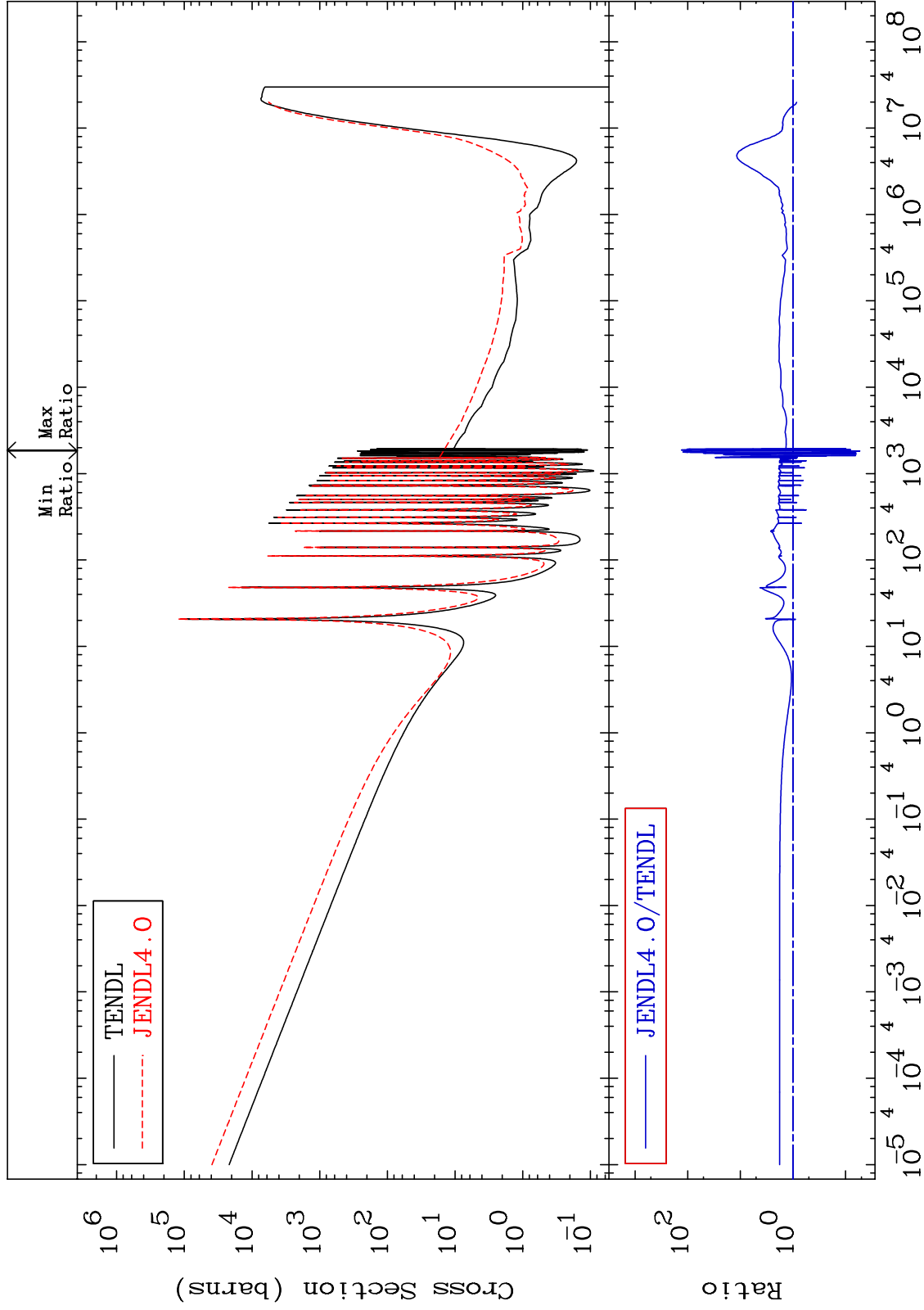
Incident Energy (eV)

62-Sm-150

MAT 6243

Dpa disappearance (mt102 -120)
Cross Section

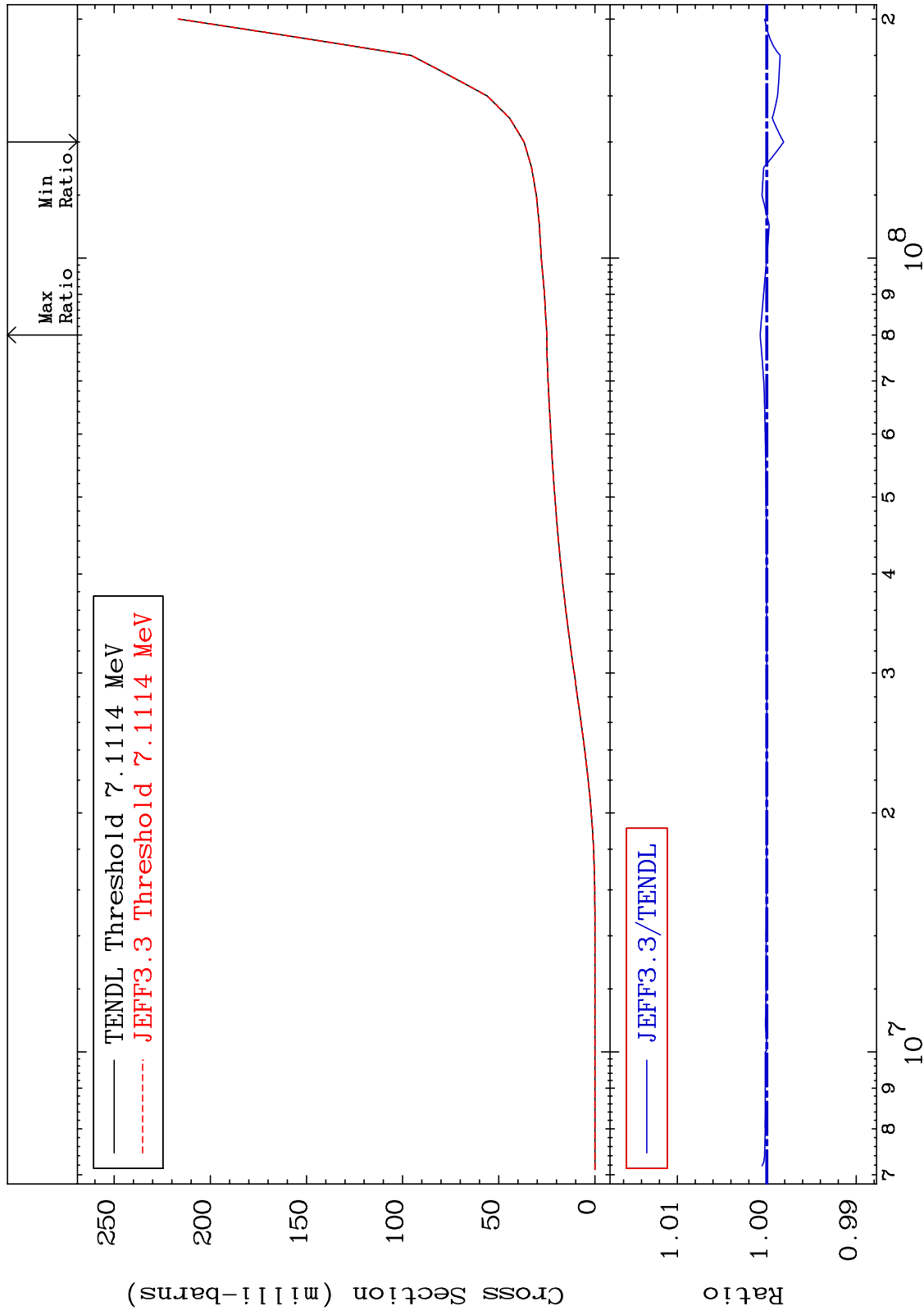
62-Sm-150
-94.63 To 9999. %



MAT 6243

Tritium Production
Cross Section

62-Sm-150
-0.188 To 0.074 %

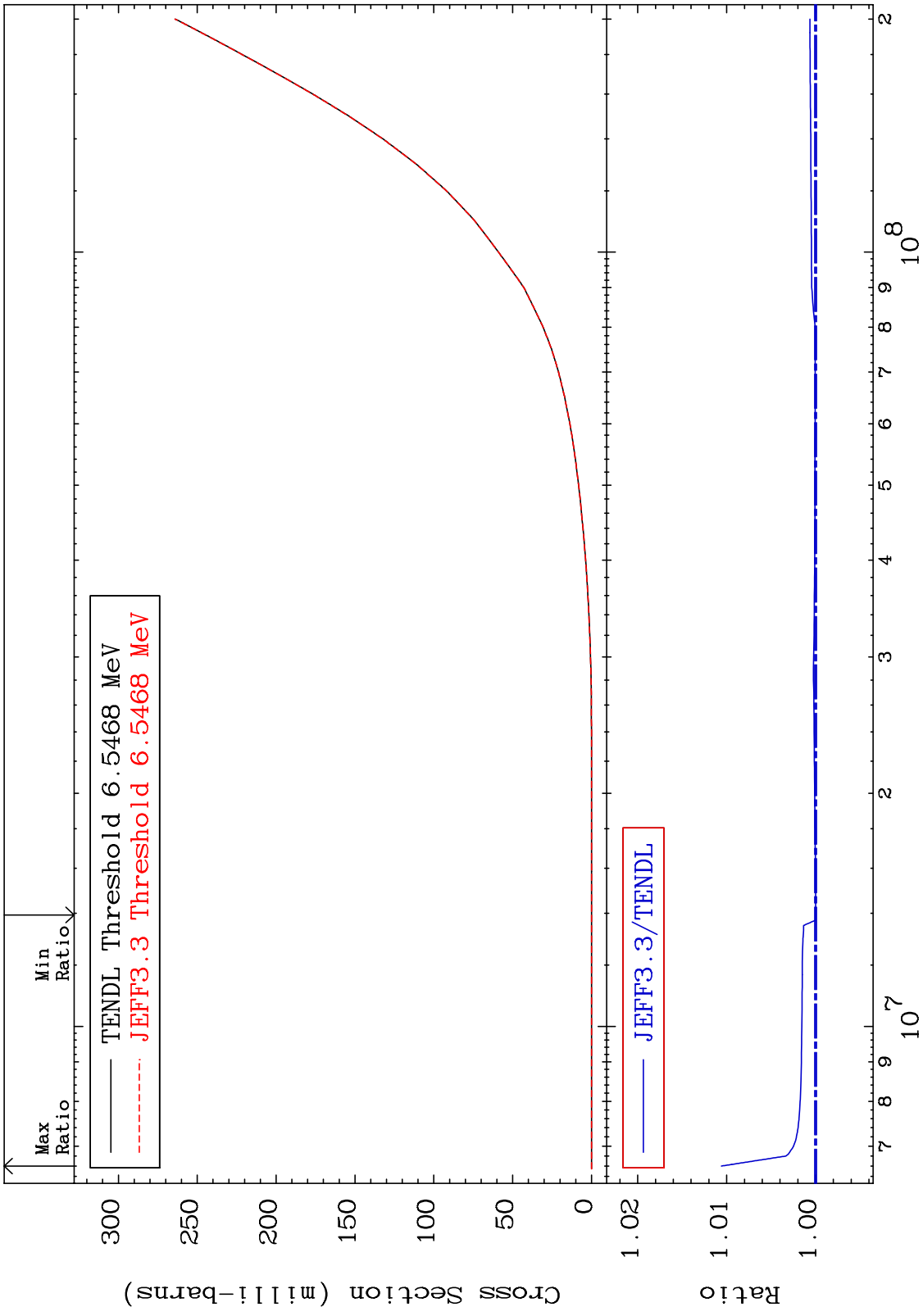


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Incident Energy (eV)

62-Sm-150

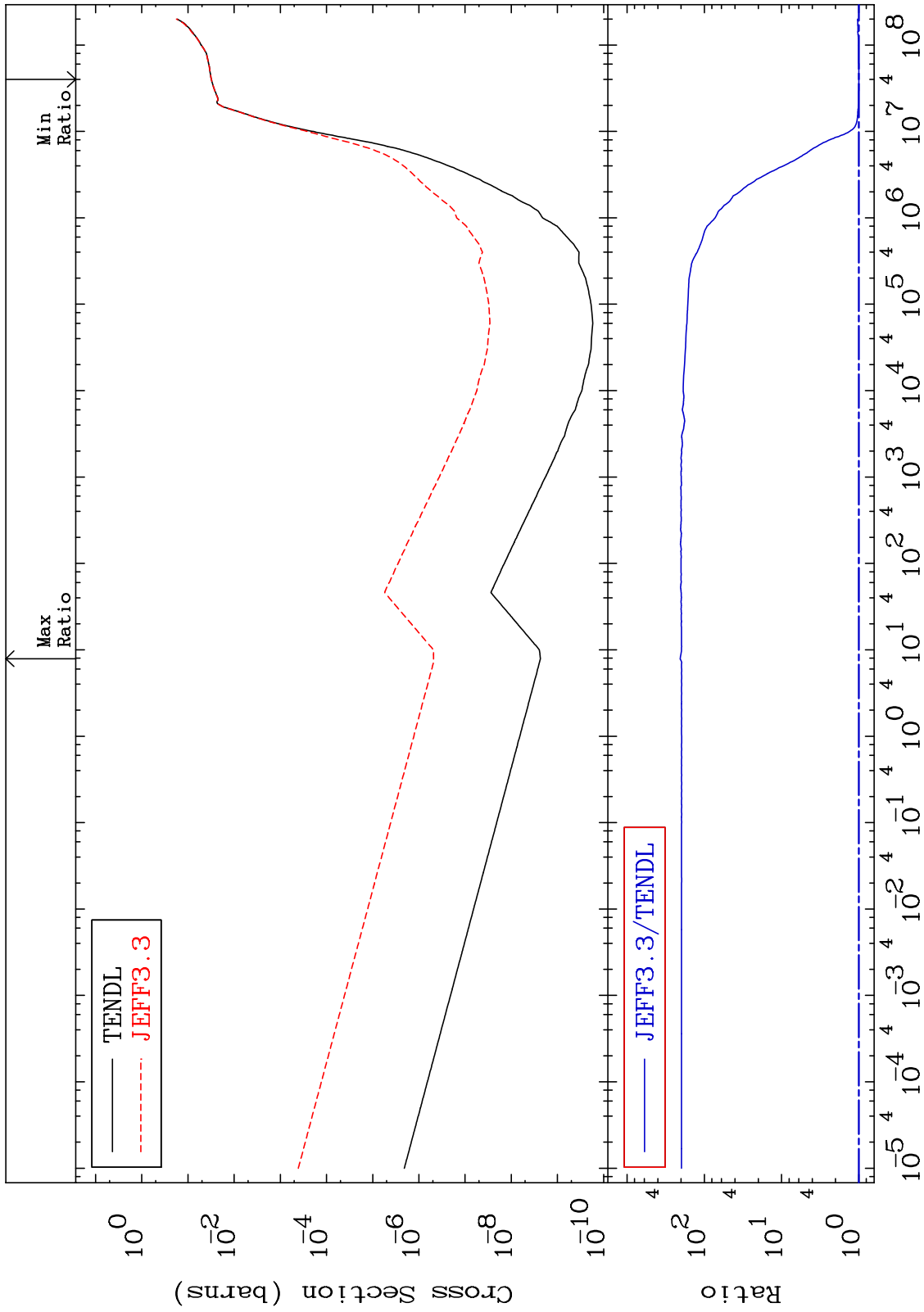
MAT 6243 He-3 Production Cross Section 62-Sm-150 To 1.061 %



MAT 6243

He-4 Production
Cross Section

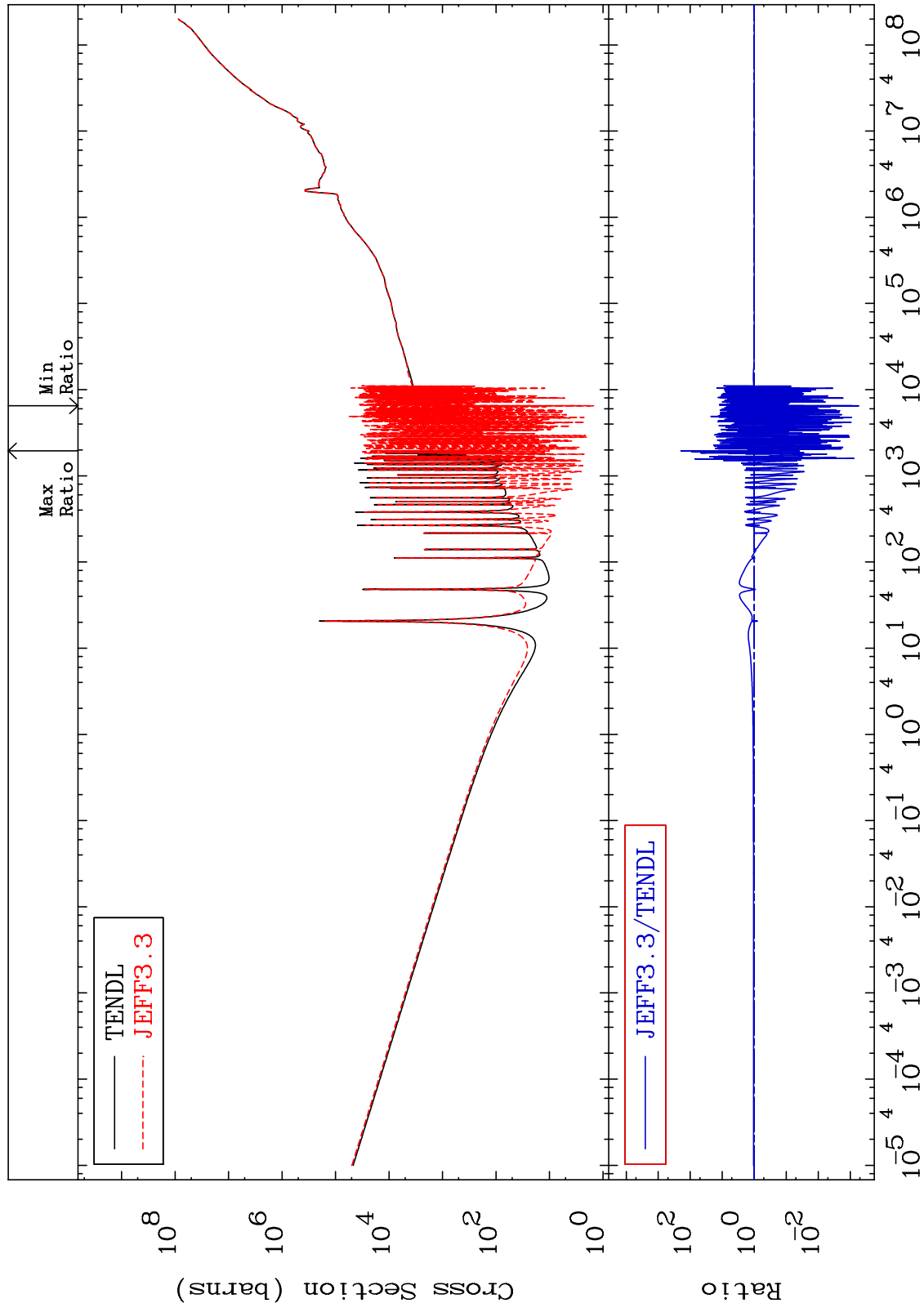
62-Sm-150
-0.181 To 9999. %



MAT 6243

Kerma total (eV-barns)
Cross Section

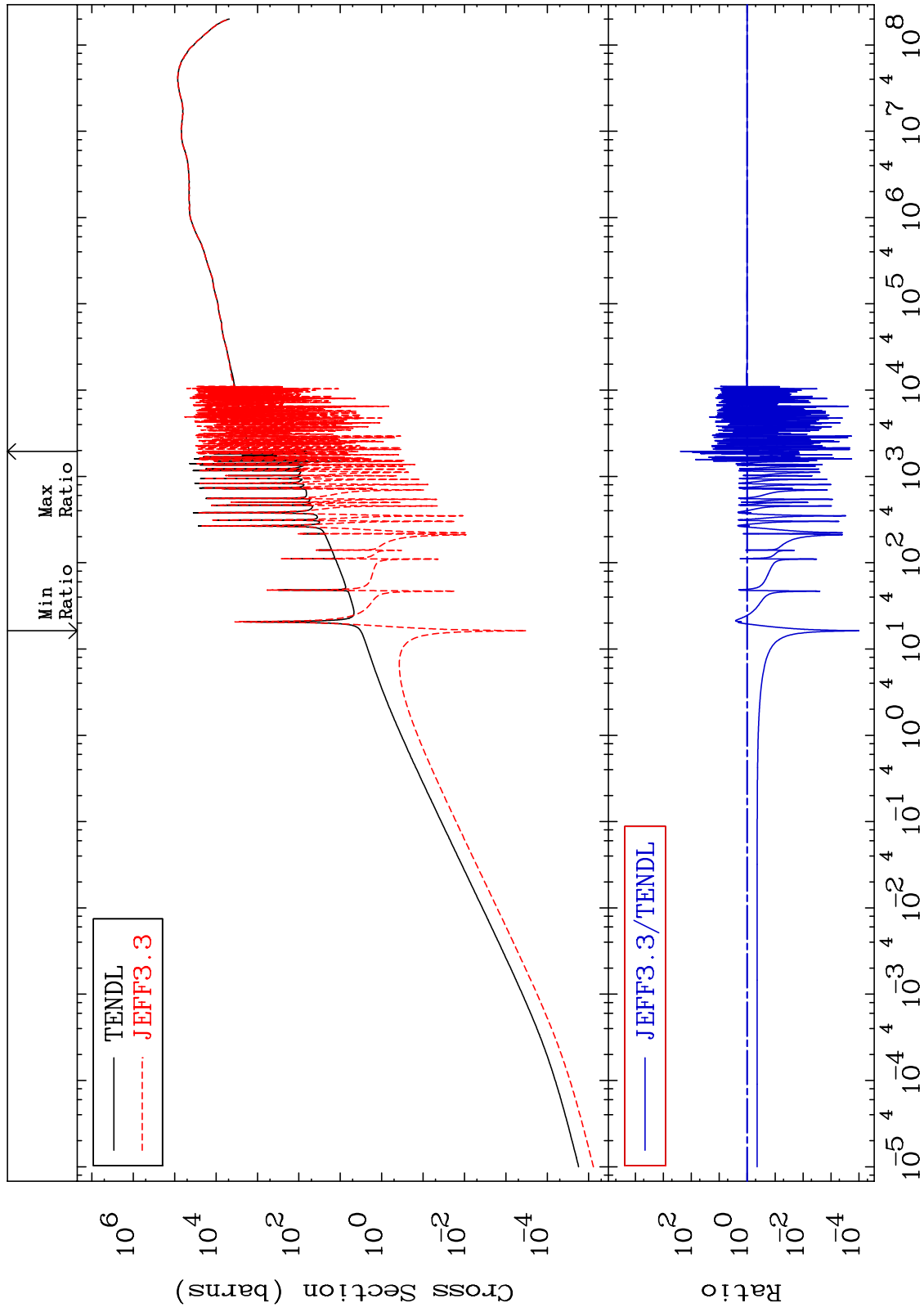
62-Sm-150
-99.95 To 9999. %



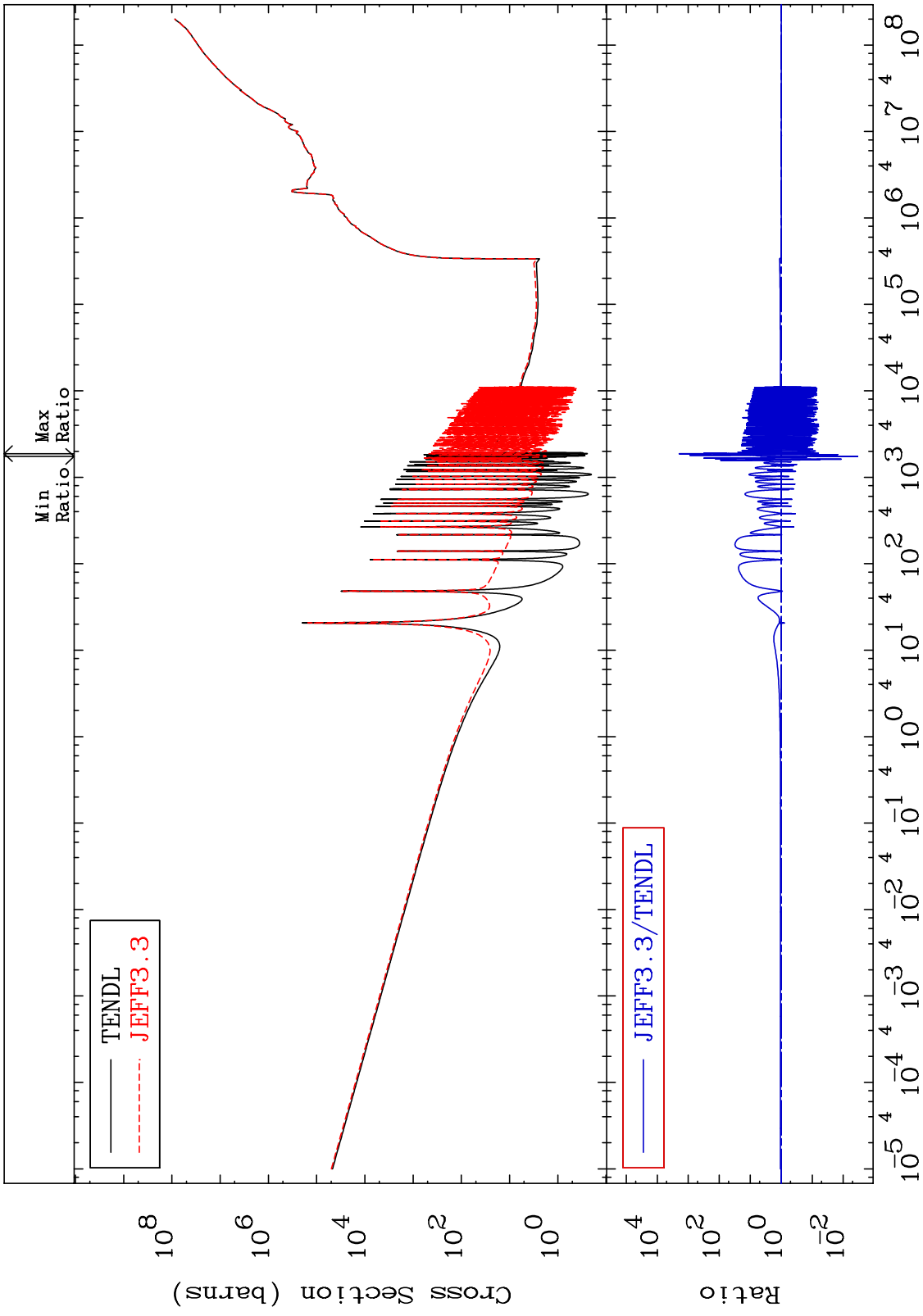
MAT 6243

Kerma elastic
Cross Section

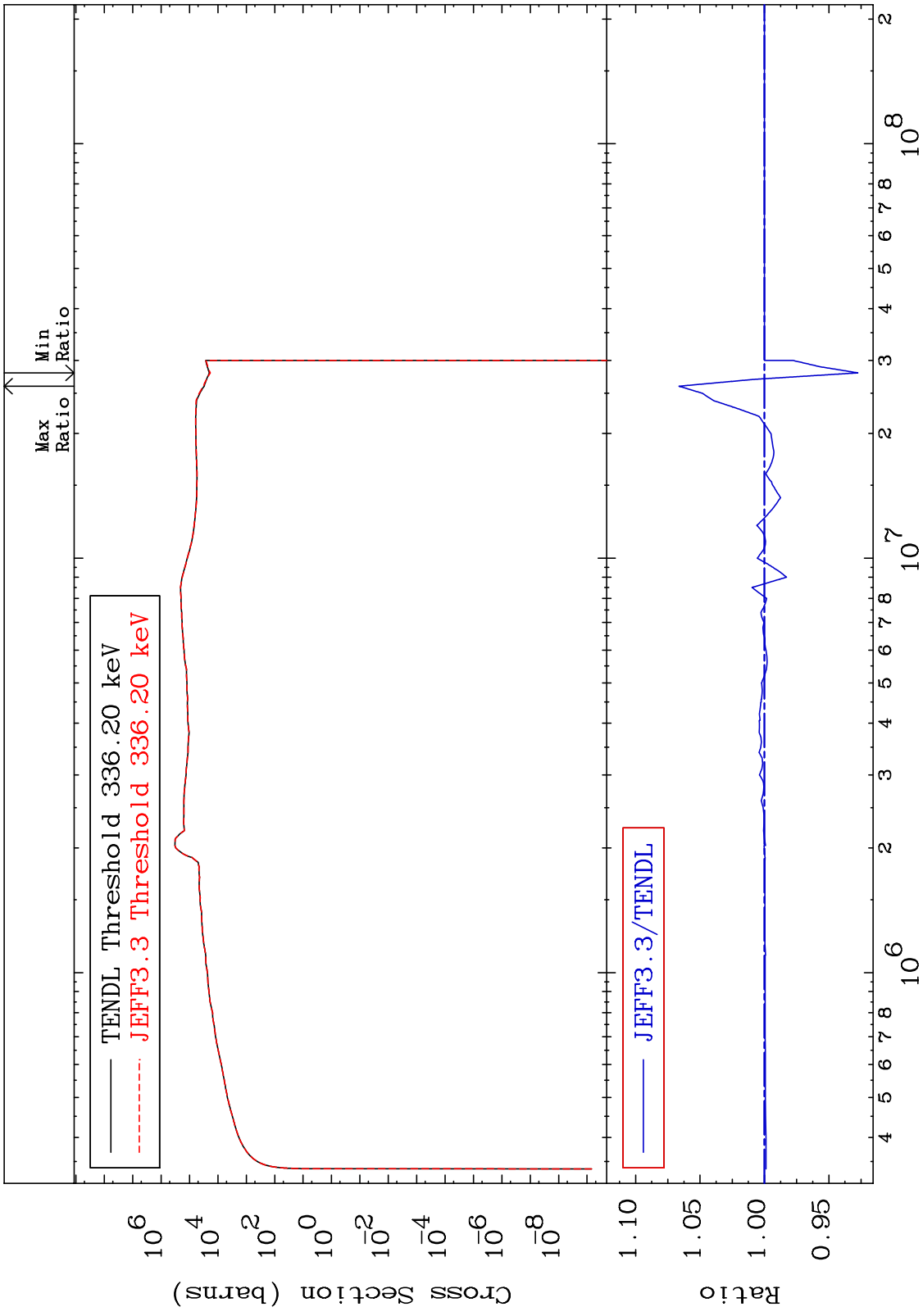
62-Sm-150
-99.99 To 9999. %



MAT 6243 Kerma non-elastic (all but mt.2) Cross Section 62-Sm-150
 -99.66 To 9999. %



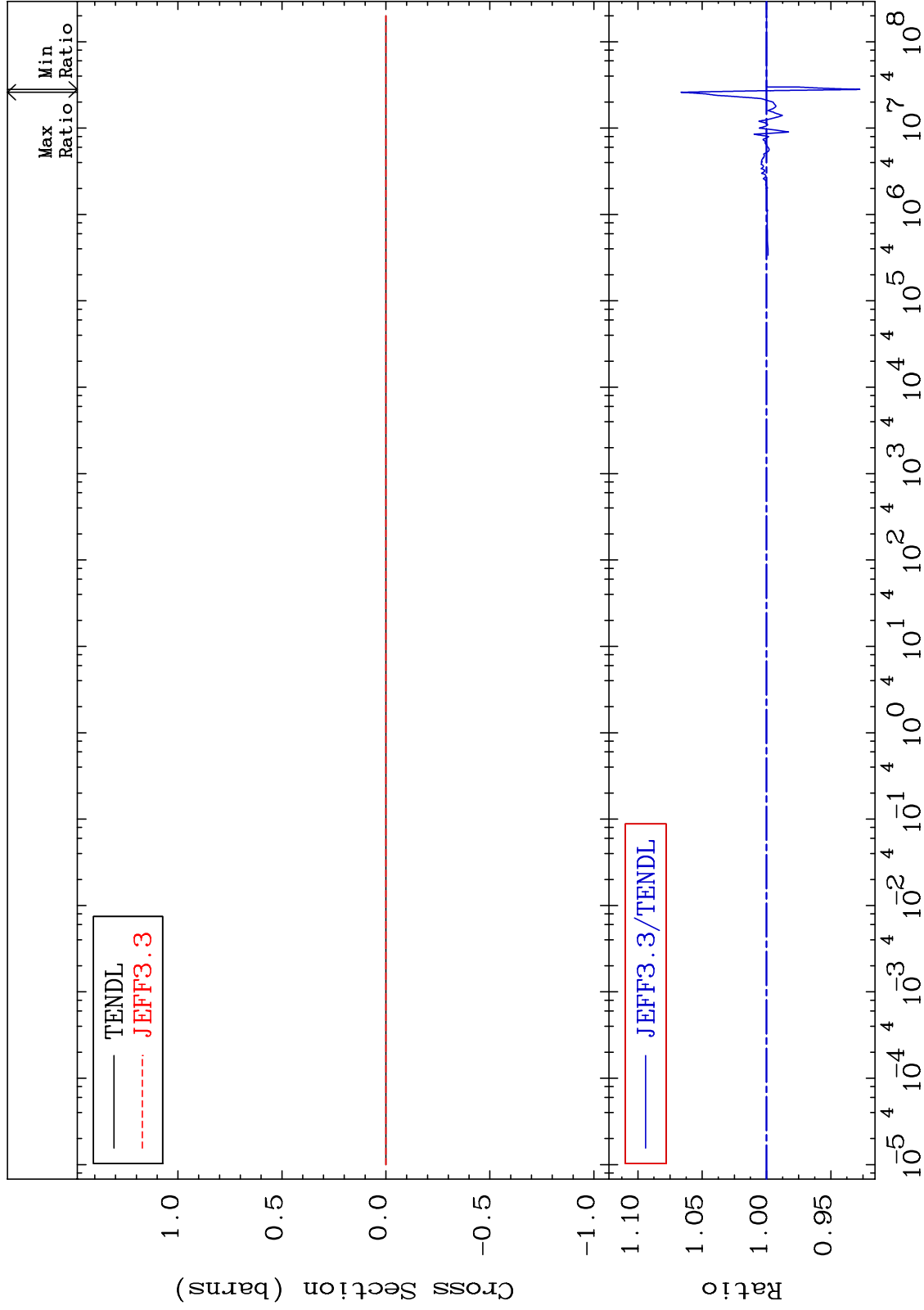
MAT 6243 Kerma inelastic (mt51-91) 62-Sm-150
 Cross Section -7.252 To 6.627 %



MAT 6243

Kerma fission (mt18 or mt19-20-21-38)
Cross Section

62-Sm-150
-7.252 To 6.627 %



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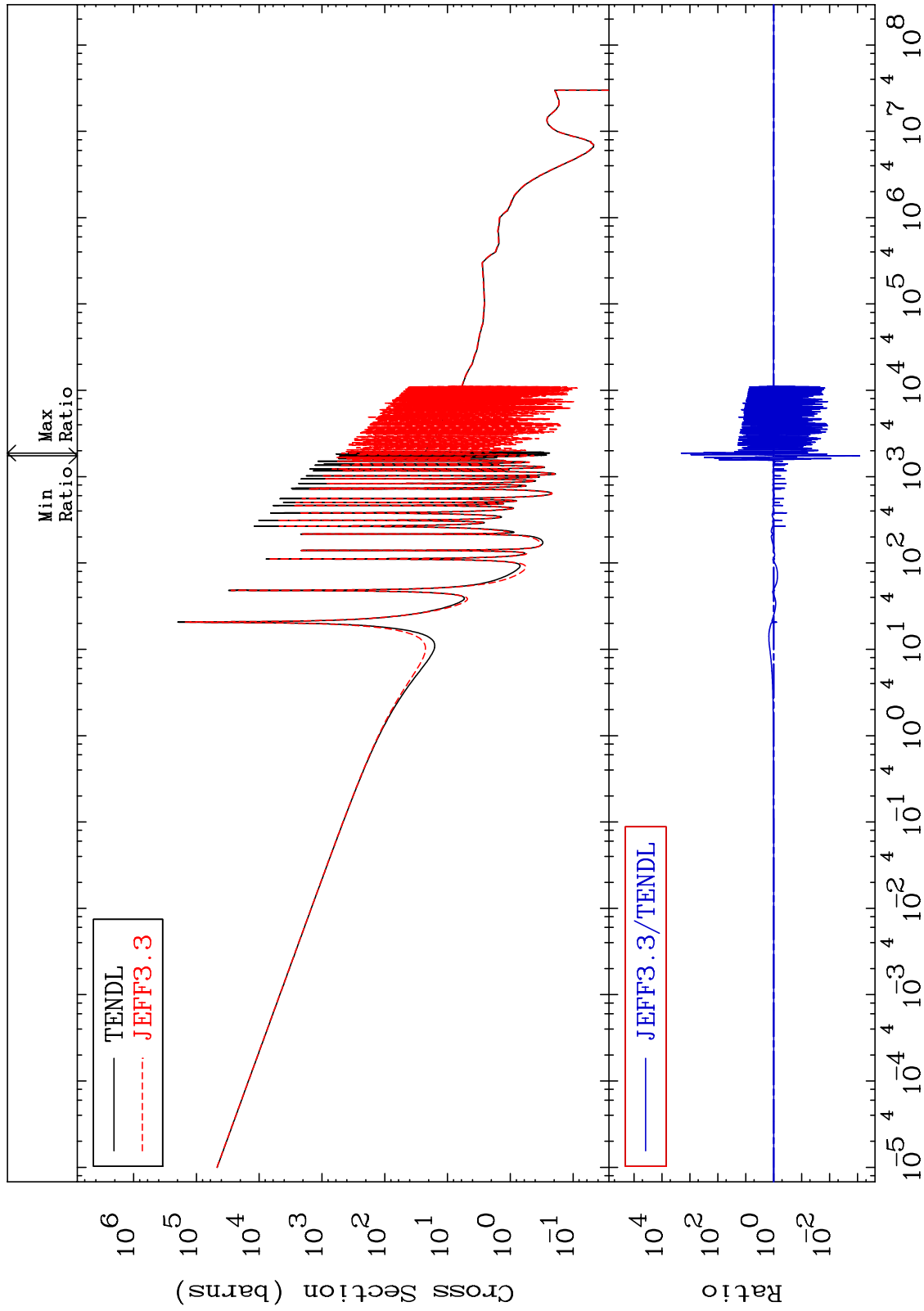
Incident Energy (eV)

62-Sm-150

MAT 6243

Kerma capture (mt102)
Cross Section

62-Sm-150
-99.92 To 9999. %

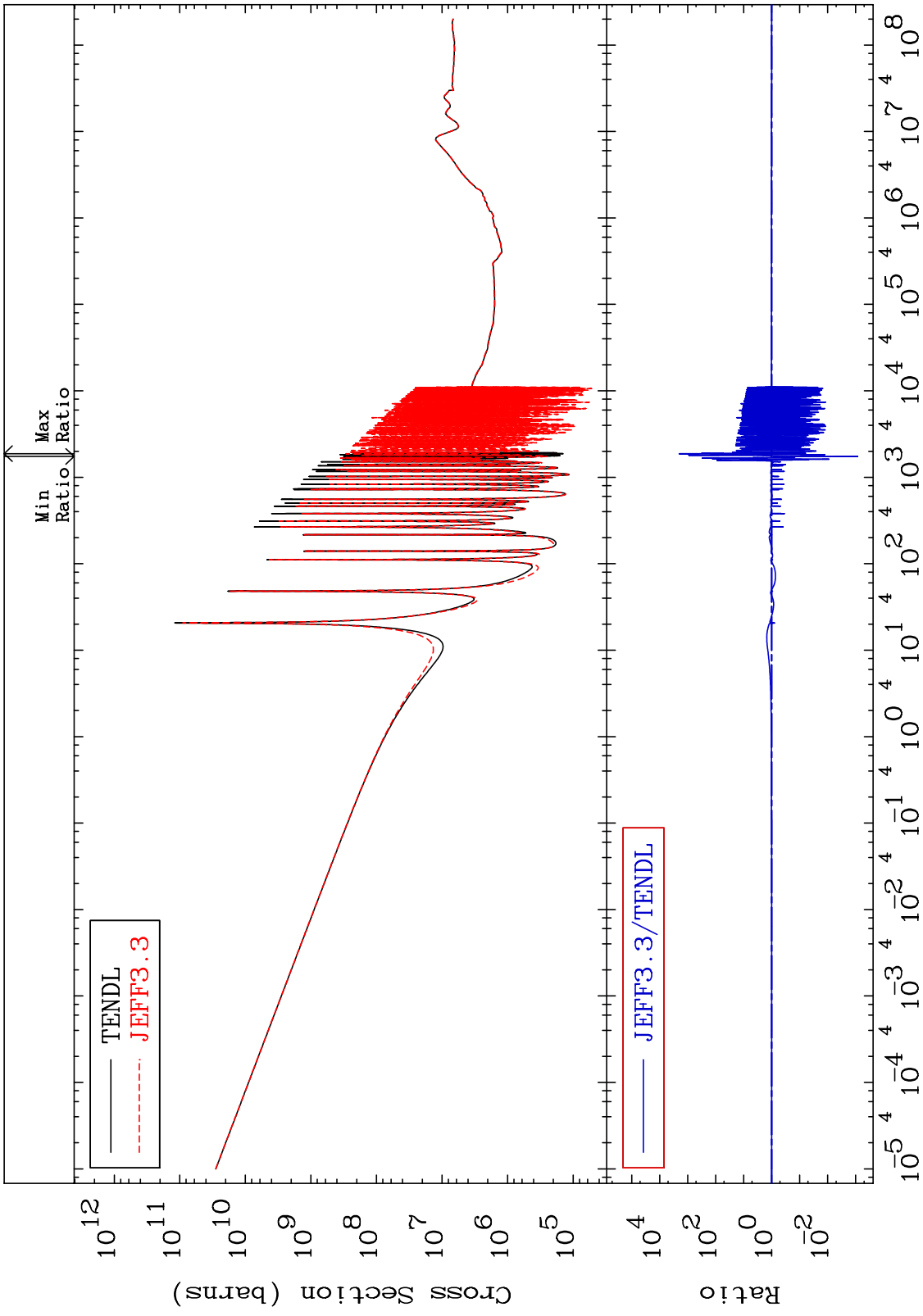


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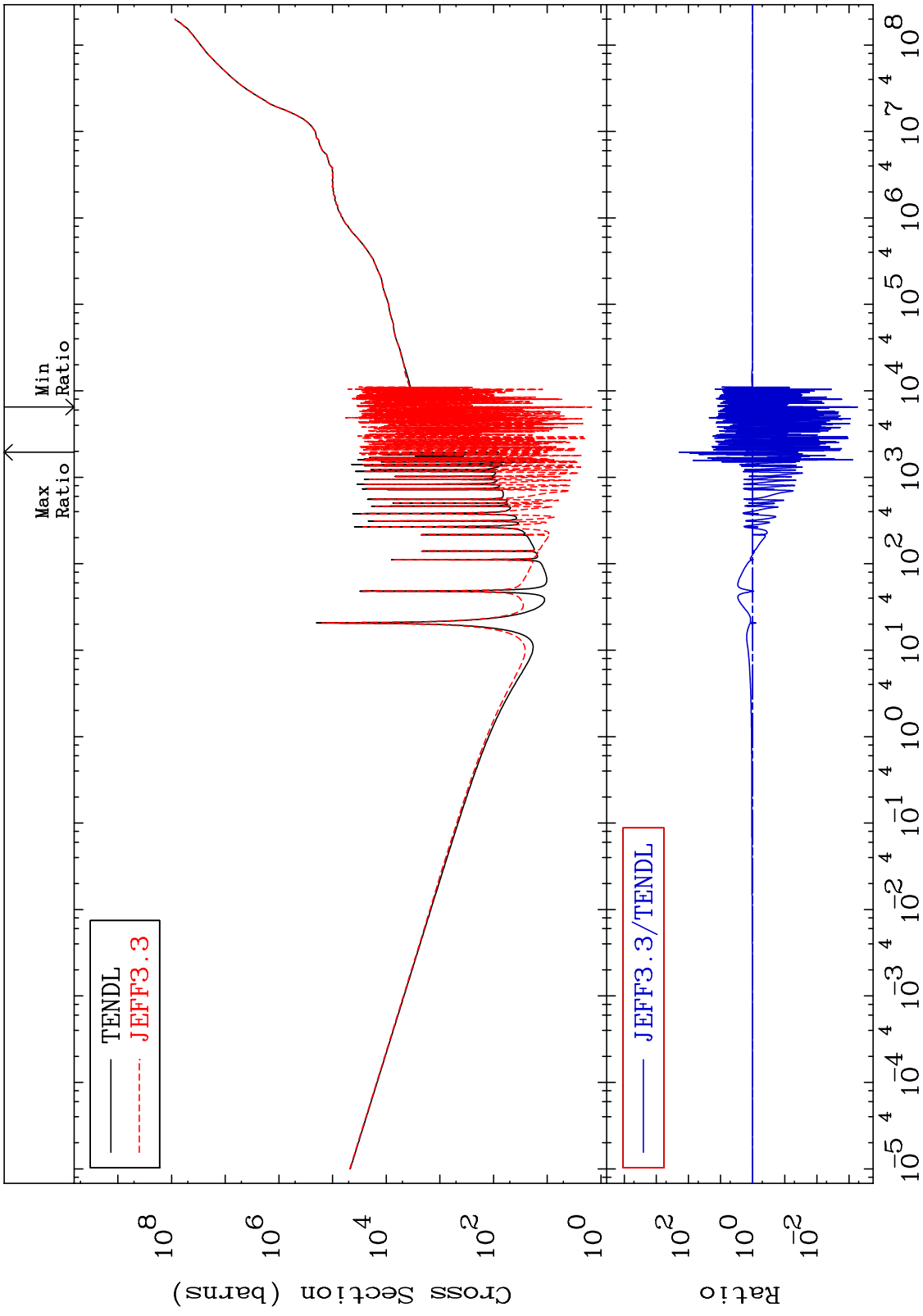
Incident Energy (eV)

62-Sm-150

MAT 6243 62-Sm-150
-99.92 To 9999. %
 Total photon (eV-barns)
 Cross Section



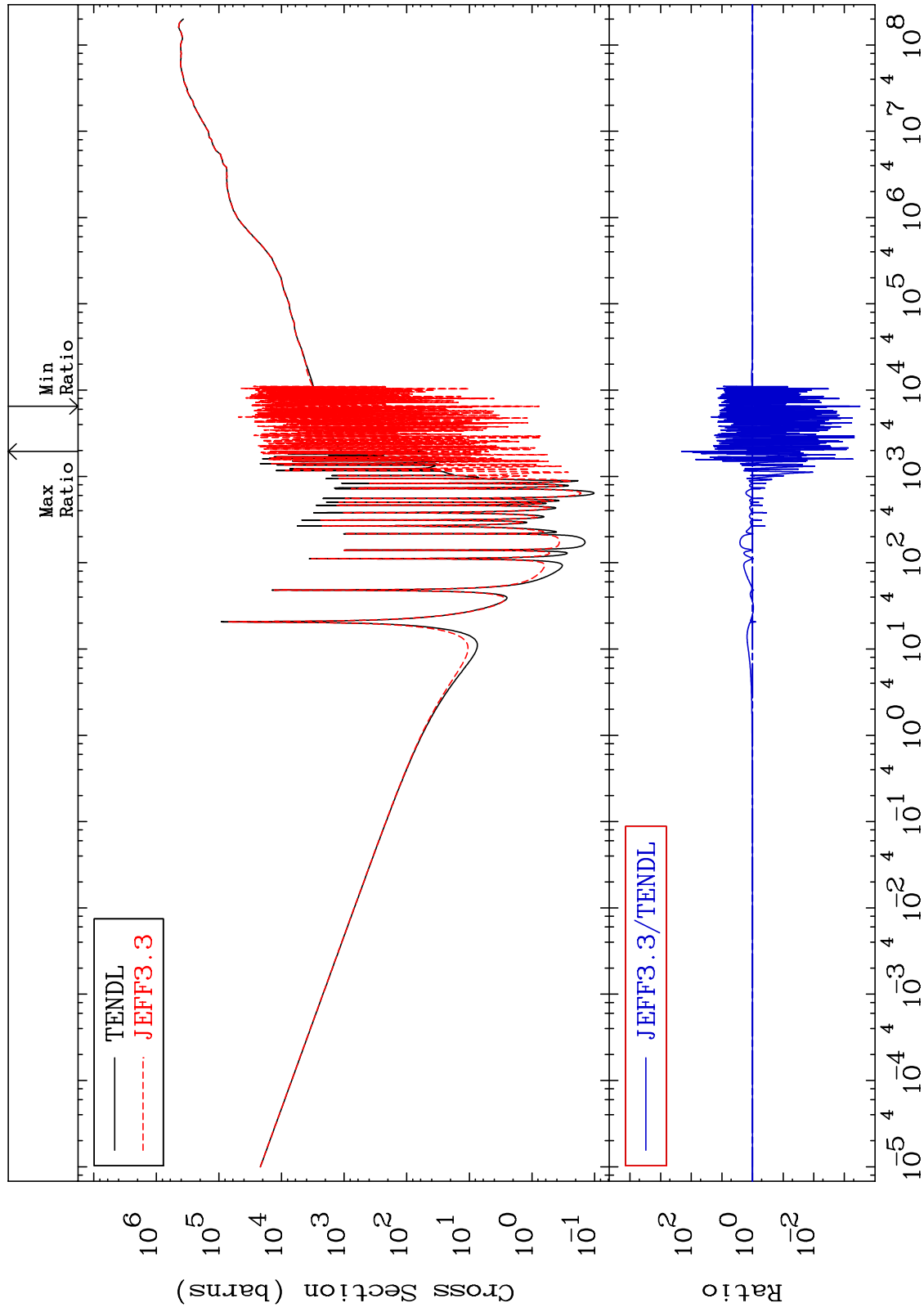
MAT 6243 Total kinematic kerma (high limit) 62-Sm-150
 Cross Section -99.95 To 9999. %



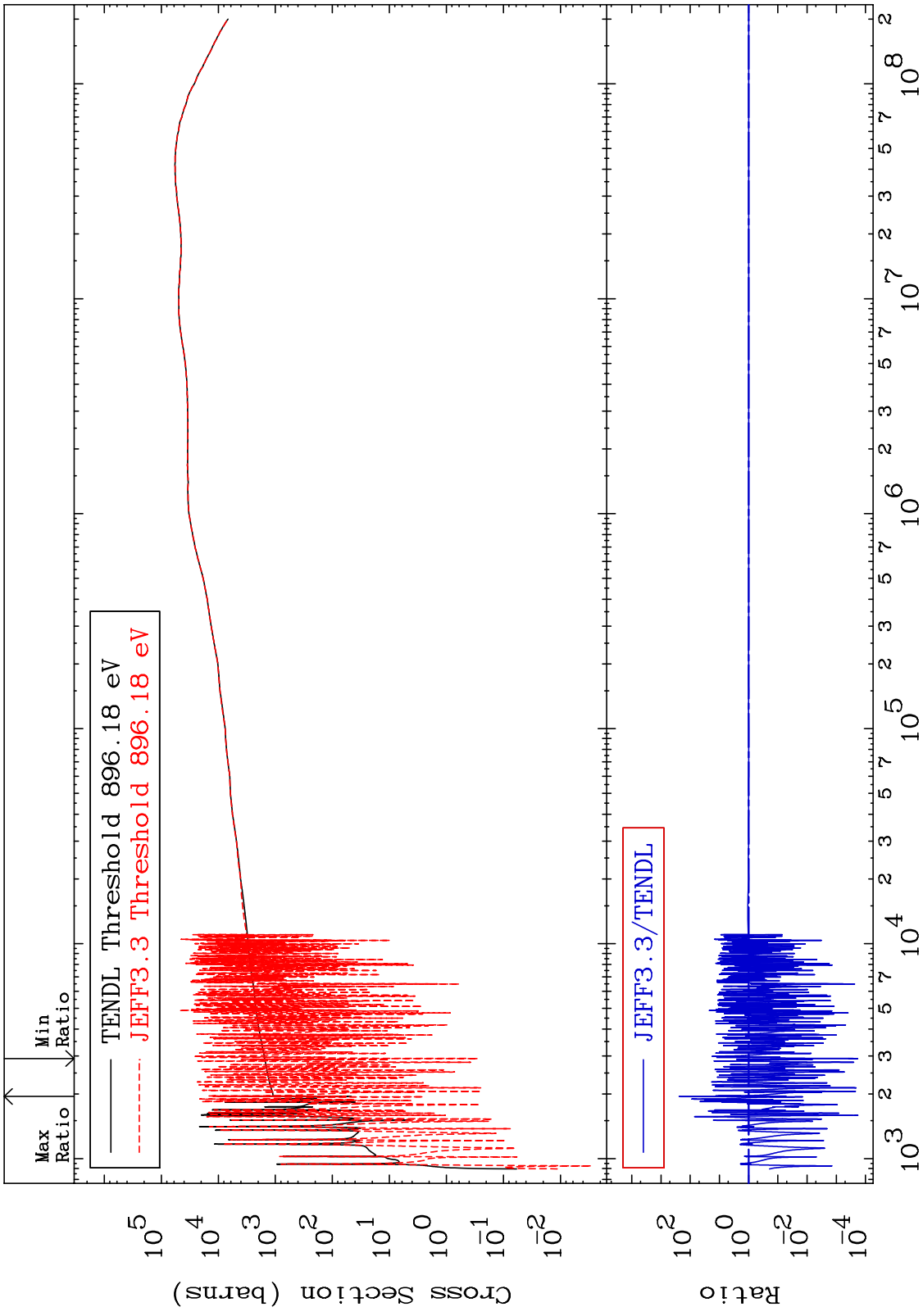
MAT 6243

Dpa total (eV-barns)
Cross Section

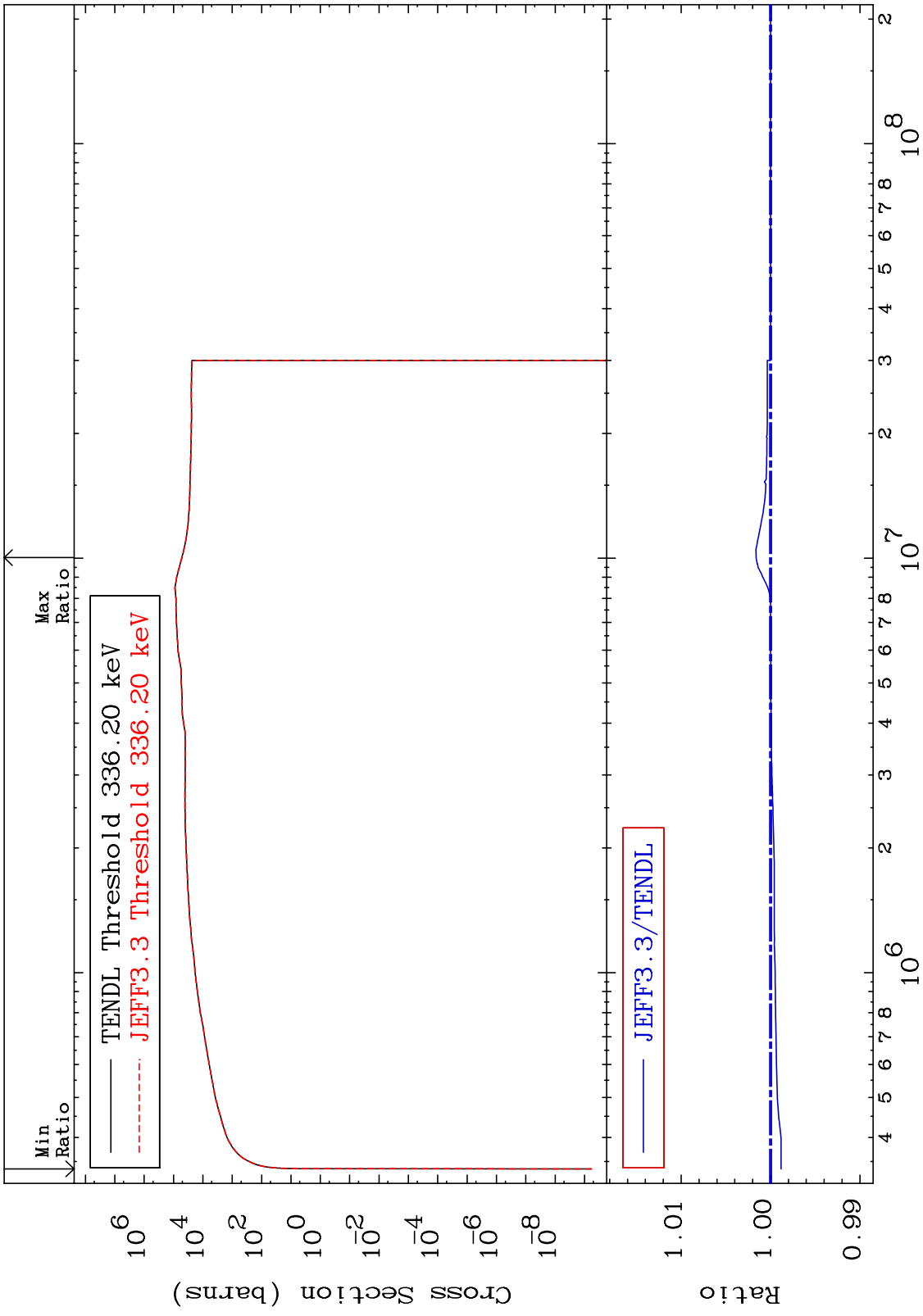
62-Sm-150
-99.97 To 9999. %



MAT 6243 Dpa elastic (mt2) 62-Sm-150
Cross Section -99.98 To 9999. %



MAT 6243 Dpa inelastic (mt51-91) 62-Sm-150
Cross Section -0.117 To 0.164 %

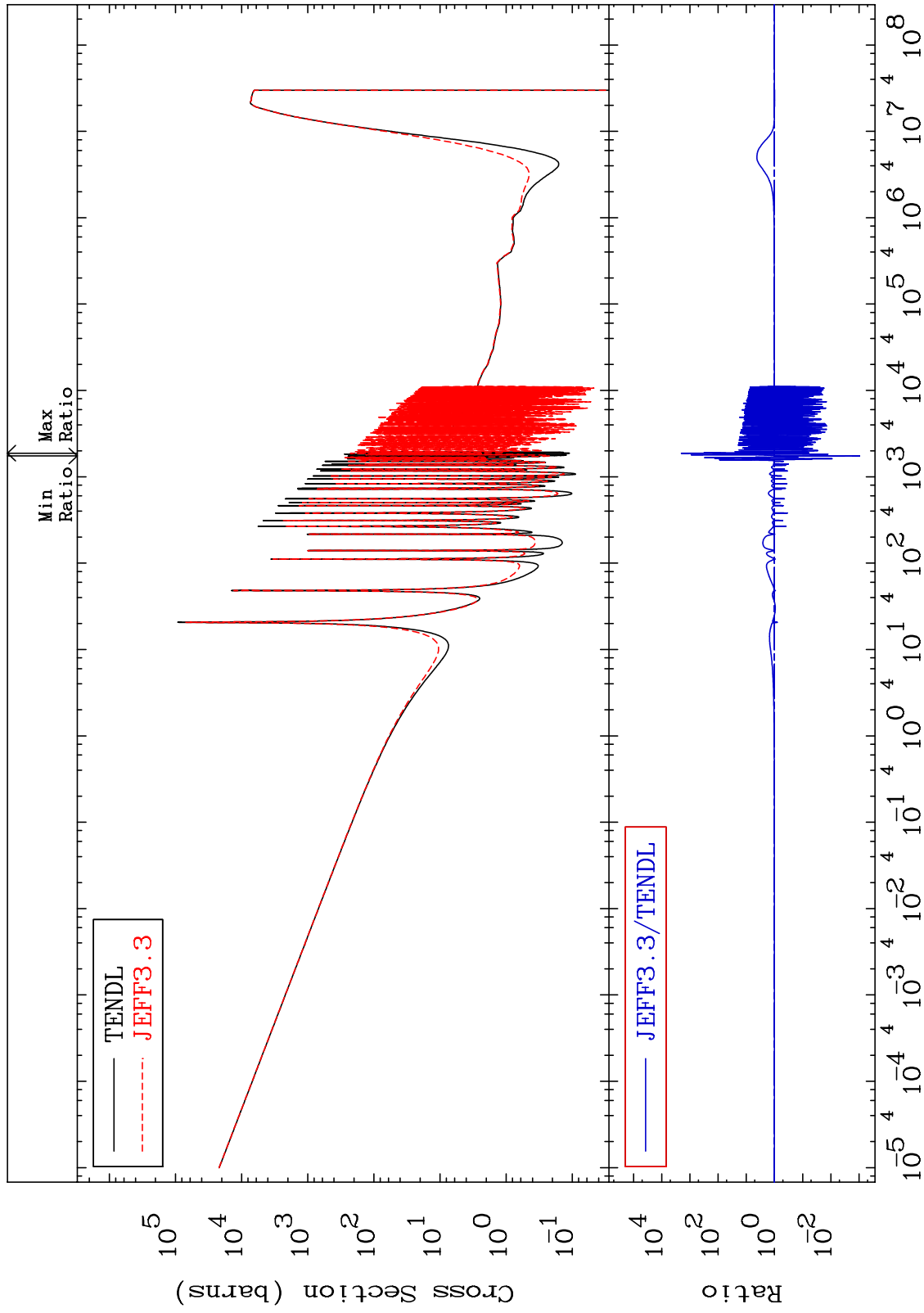


78 62-Sm-150

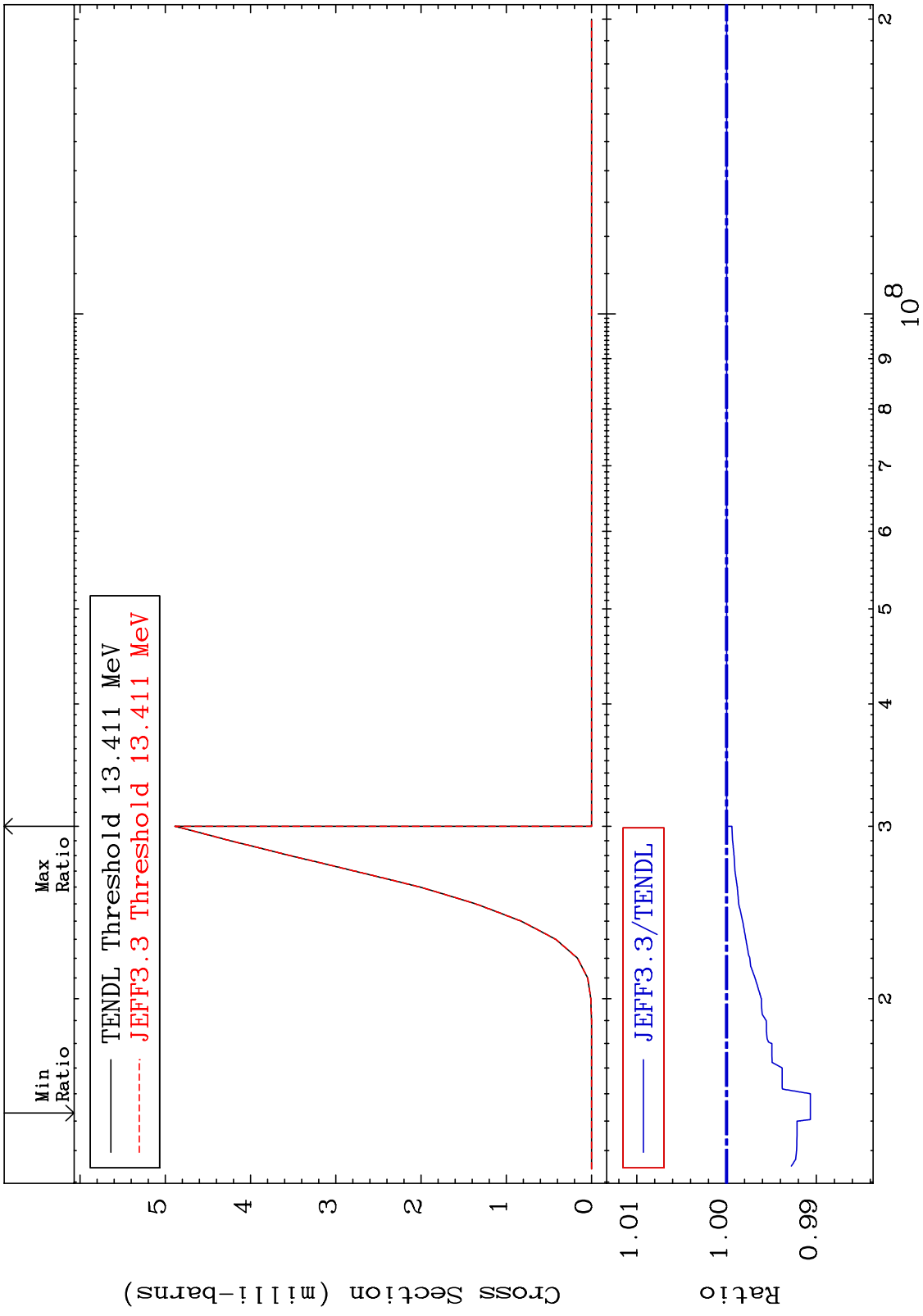
MAT 6243

Dpa disappearance (mt102 -120)
Cross Section

62-Sm-150
-99.91 To 9999. %

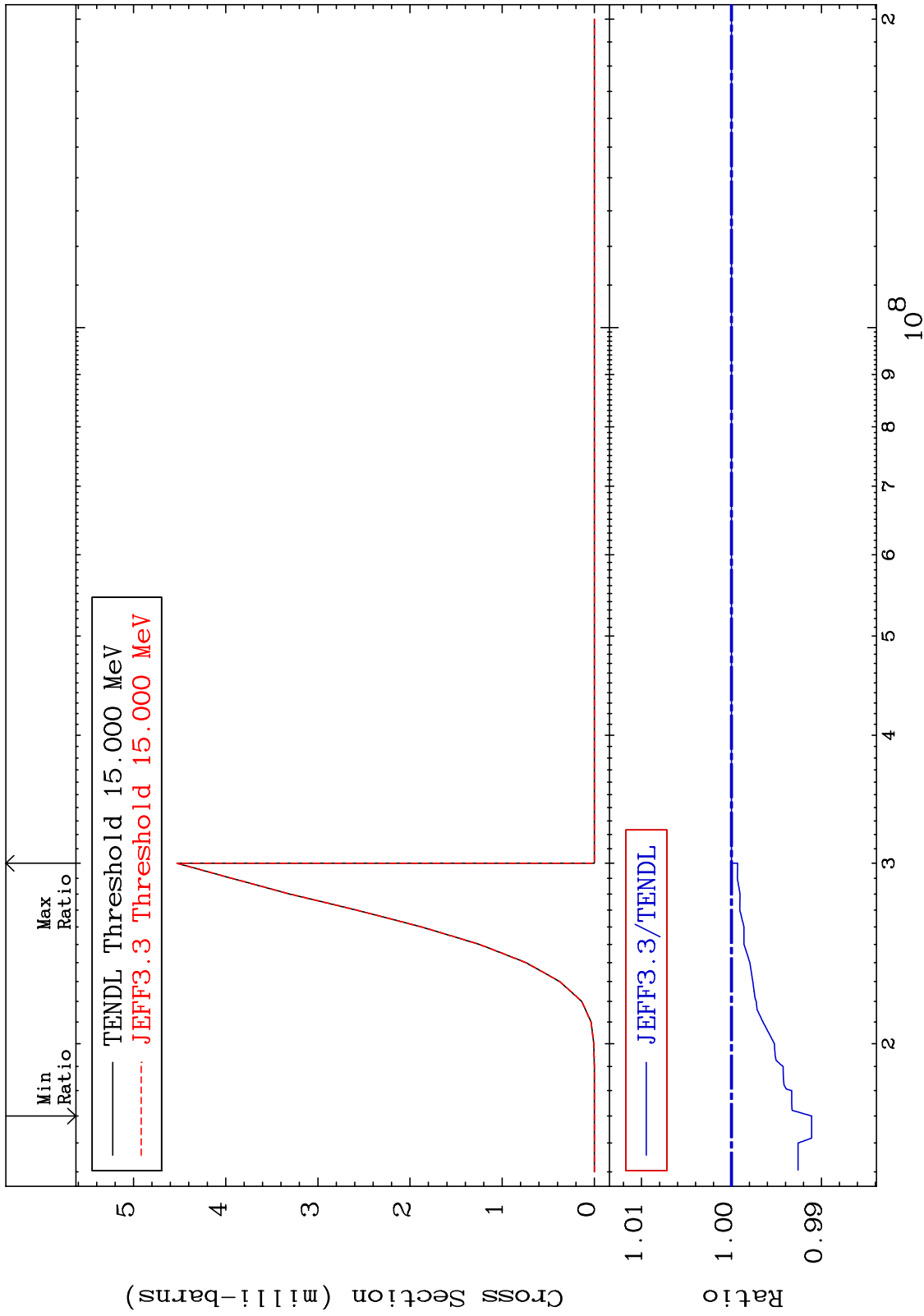


MAT 6243 (n, n') d:61-Pm-148g 62-Sm-150
Radionuclide Production Cross Section -0.933 To 0.000 %

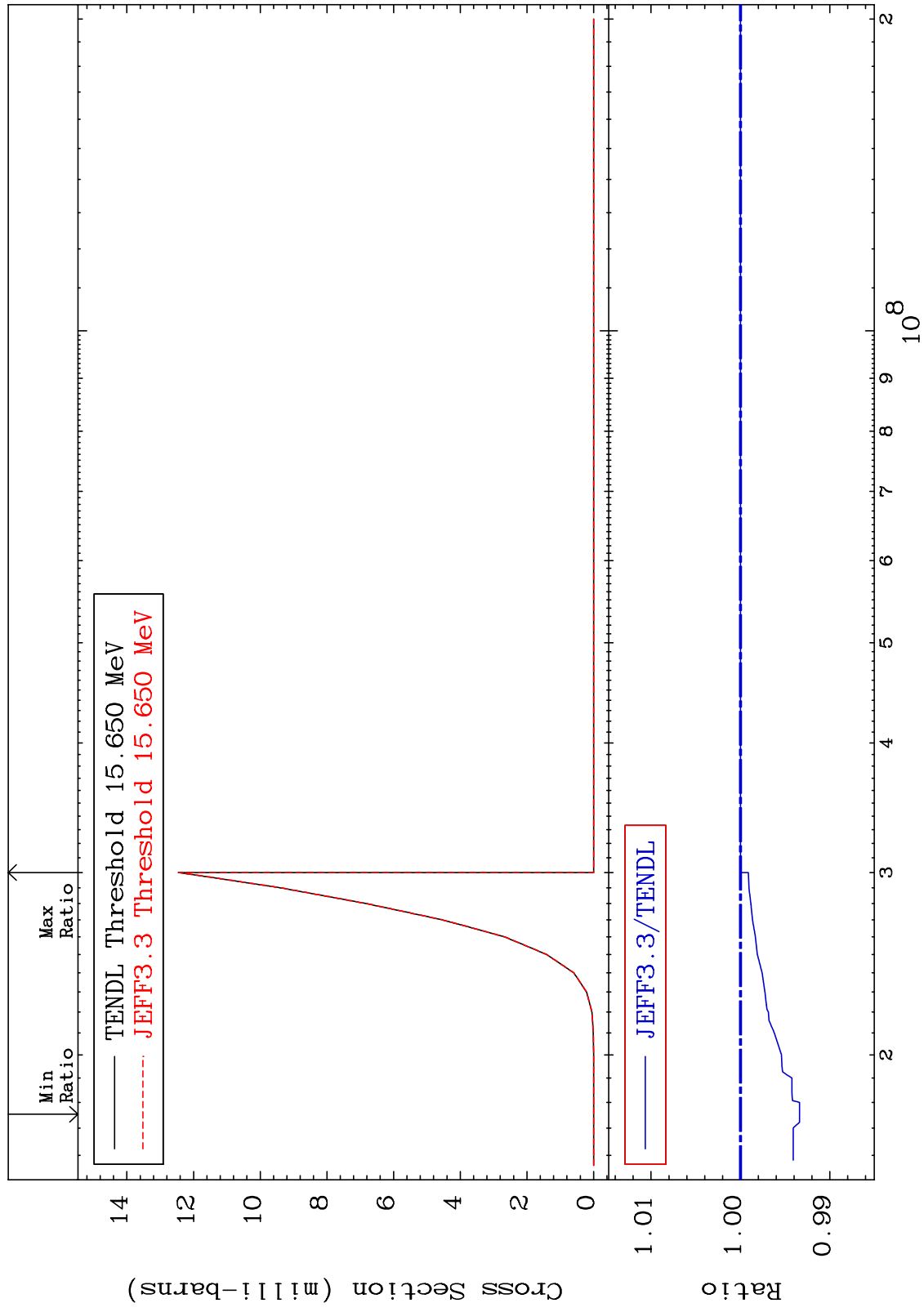


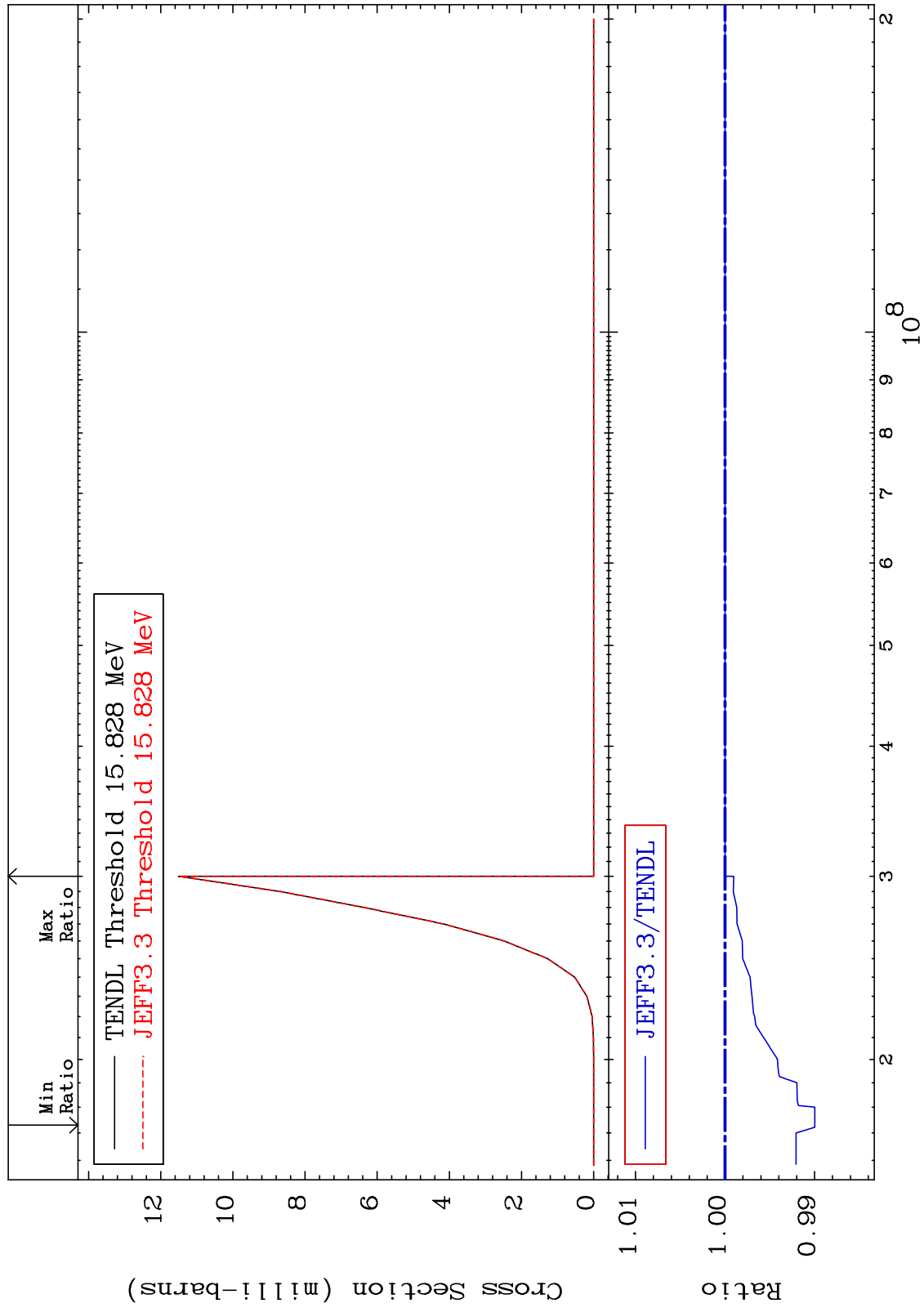
MAT 6243 (n,n') d:61-Pm-148m3 62-Sm-150

Radionuclide Production Cross Section -0.891 To 0.000 %

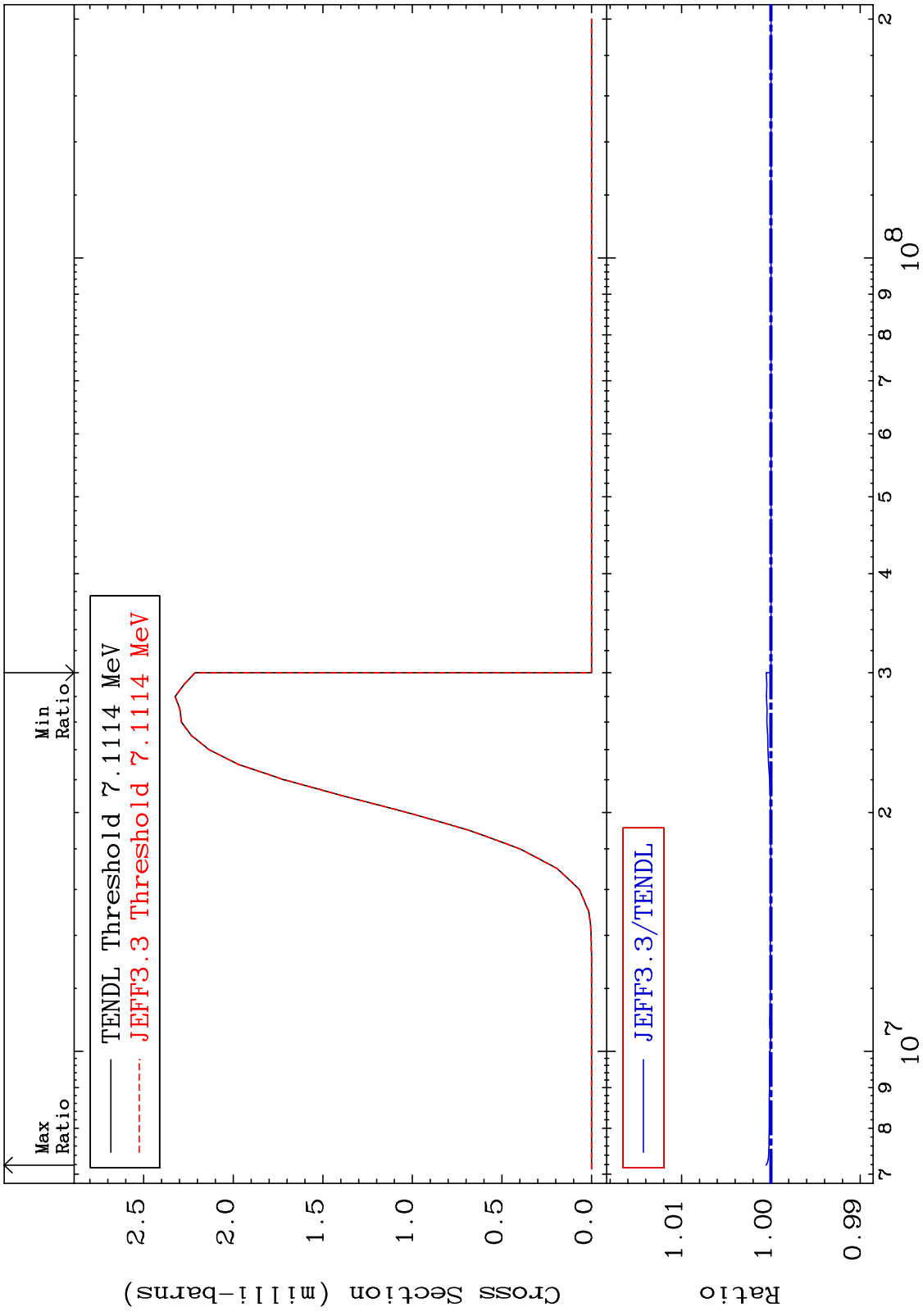


MAT 6243 (n,2n) p:61-Pm-148g 62-Sm-150
 Radionuclide Production Cross Section -0.660 To 0.000 %





MAT 6243 (n,t):61-Pm-148 62-Sm-150
 Radionuclide Production Cross Section 0.000 To 0.055 %



MAT 6243 (n, t): 61-Pm-148m3 62-Sm-150
 Radionuclide Production Cross Section 0.000 To 0.211 %

