

Program Complot
(Version 2018-1)

by

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(Present Contact Information)

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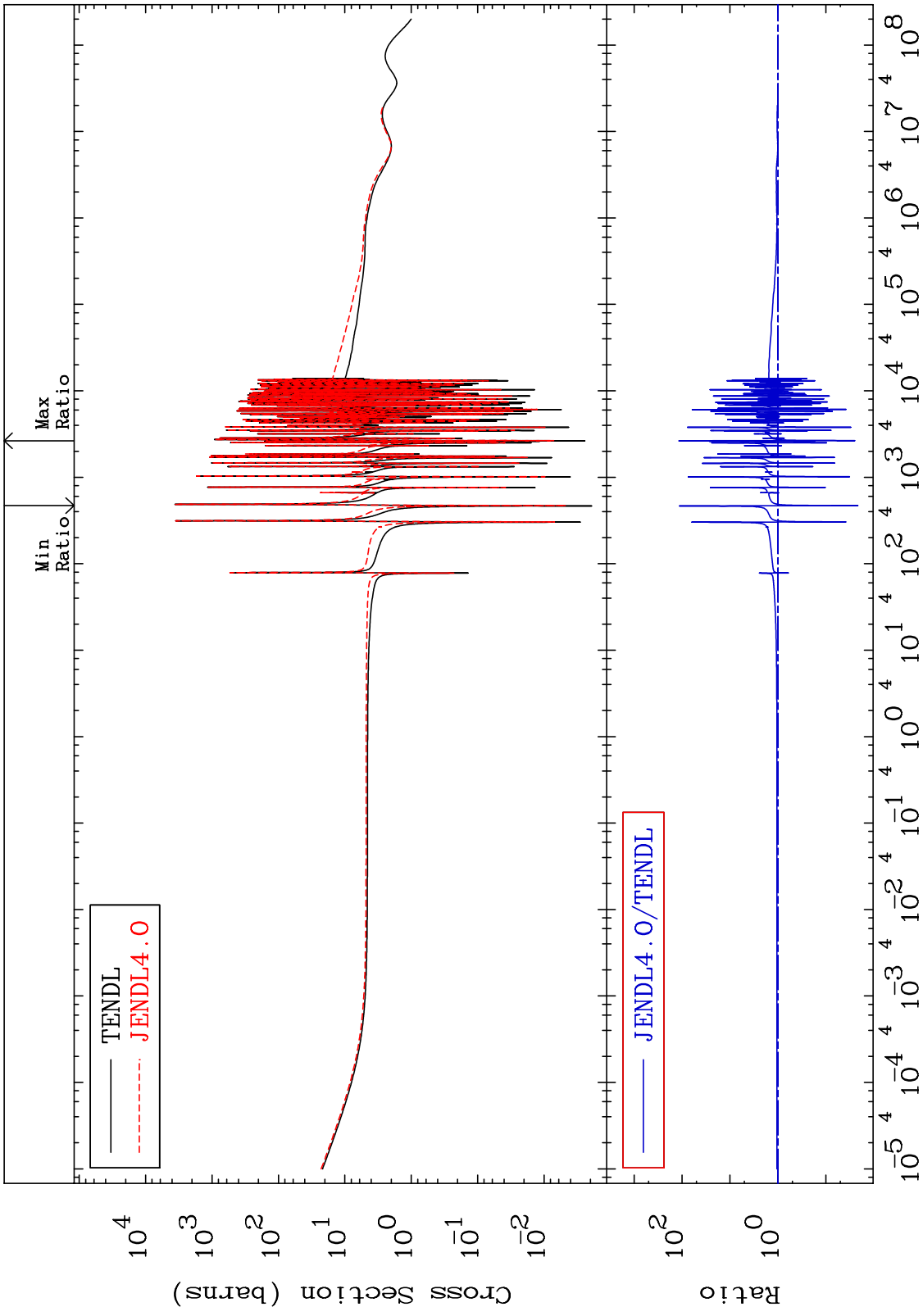
U.S.A.

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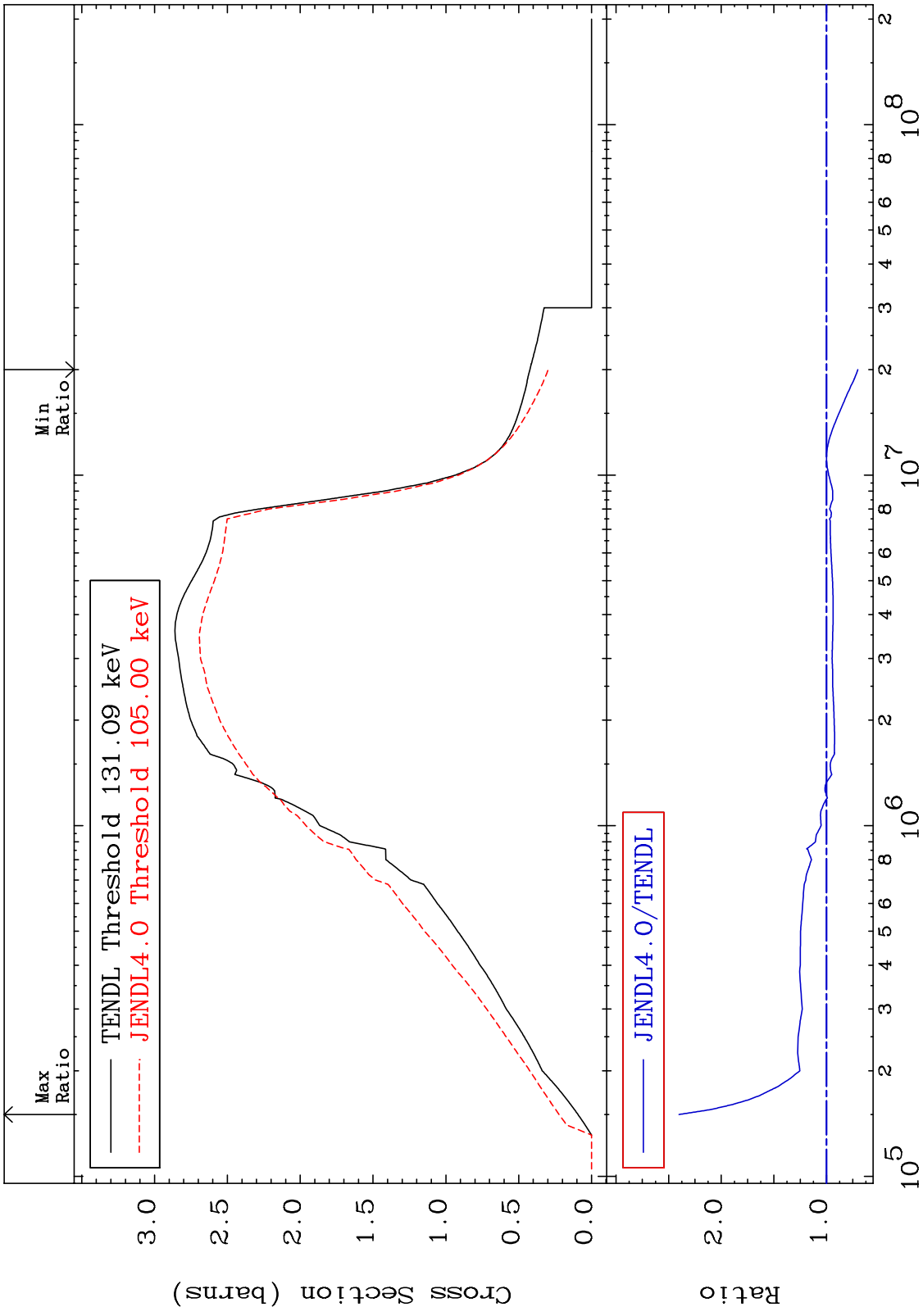
Press Mouse Button to Start

MAT 6049 Elastic Cross Section 60-Nd-150 -97.85 To 9999. %



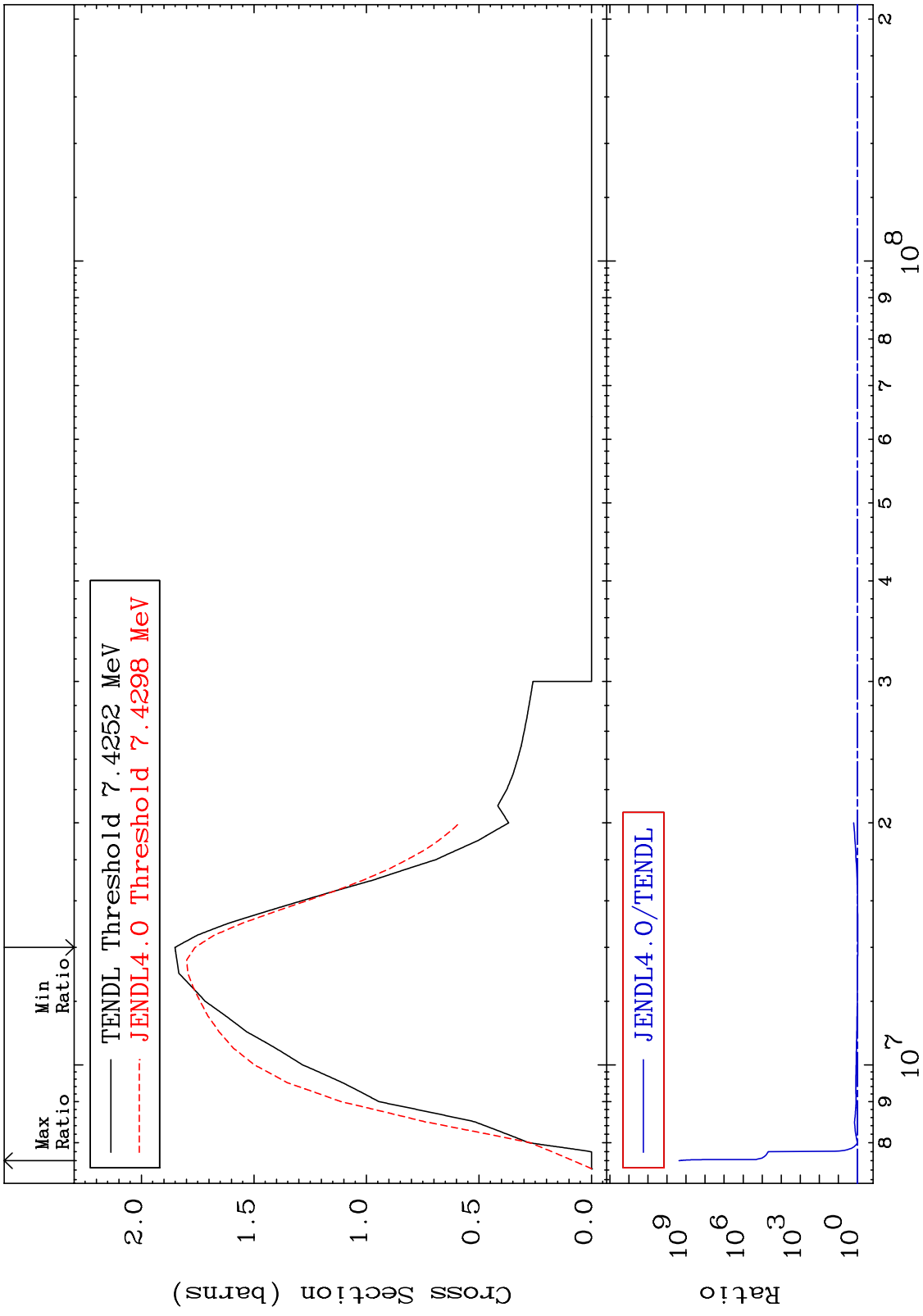
Incident Energy (eV) 60-Nd-150

MAT 6049 Inelastic Cross Section 60-Nd-150 -29.78 To 140.1 %

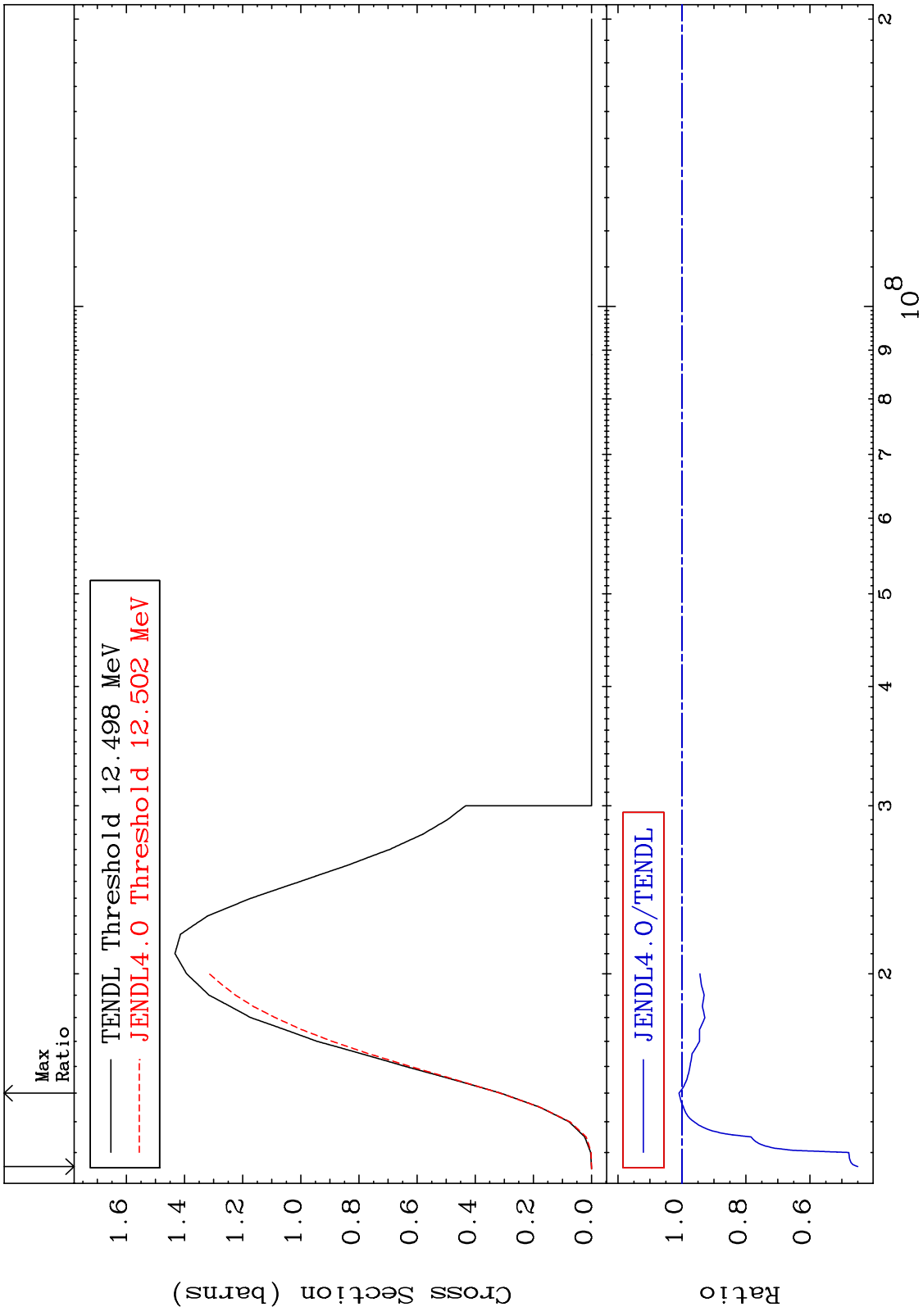


3 Incident Energy (eV) 60-Nd-150

MAT 6049 (n,2n) Cross Section 60-Nd-150 -4.812 To 9999. %



MAT 6049 (n,3n) Cross Section 60-Nd-150 -55.01 To 0.904 %



MAT 6049

(n,n') α

60-Nd-150

-100.0 To 9999. %

Cross Section

Min Ratio

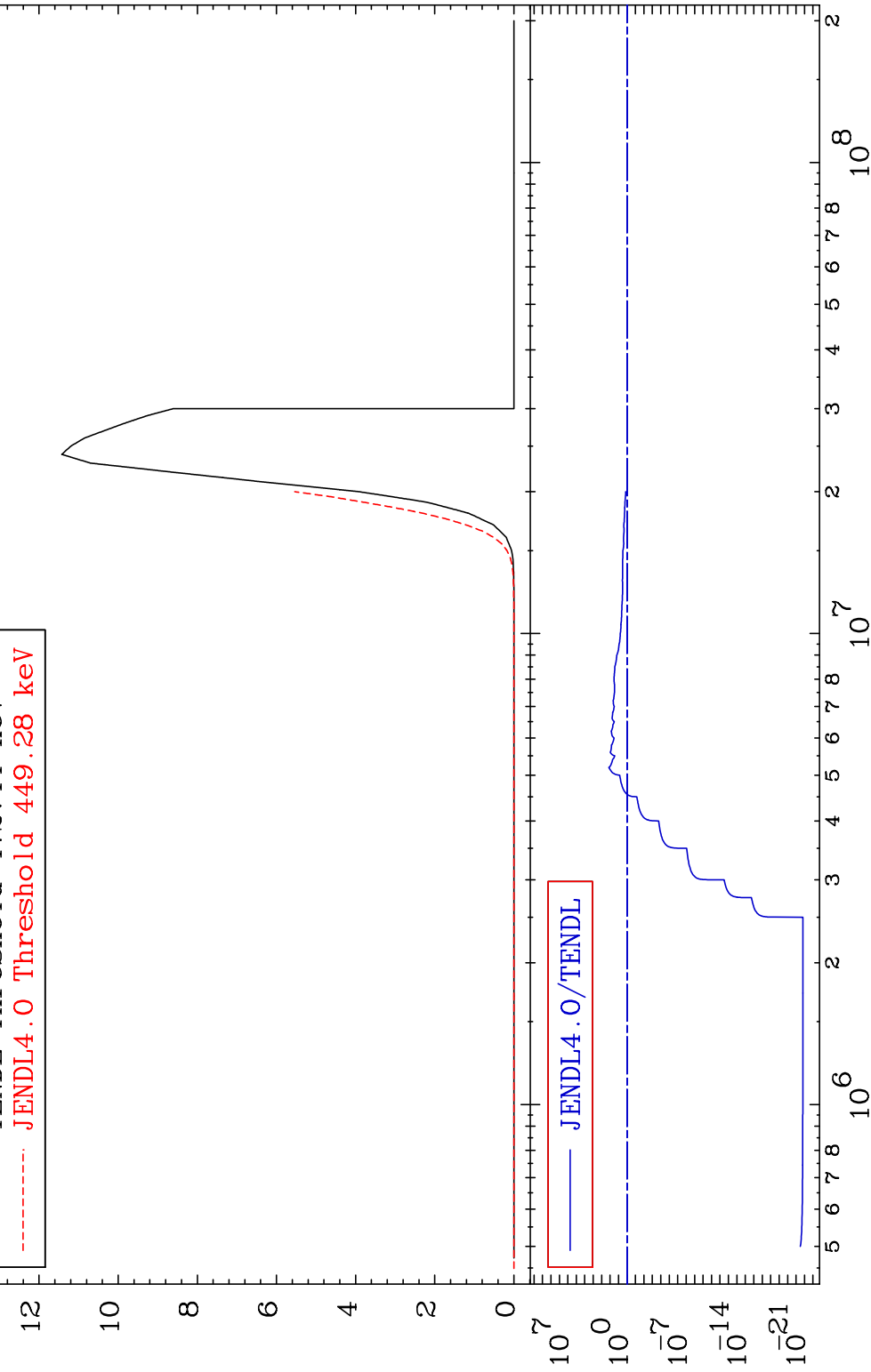
Max Ratio

— TENDL Threshold 472.44 keV
- - - JENDL4.0 Threshold 449.28 keV

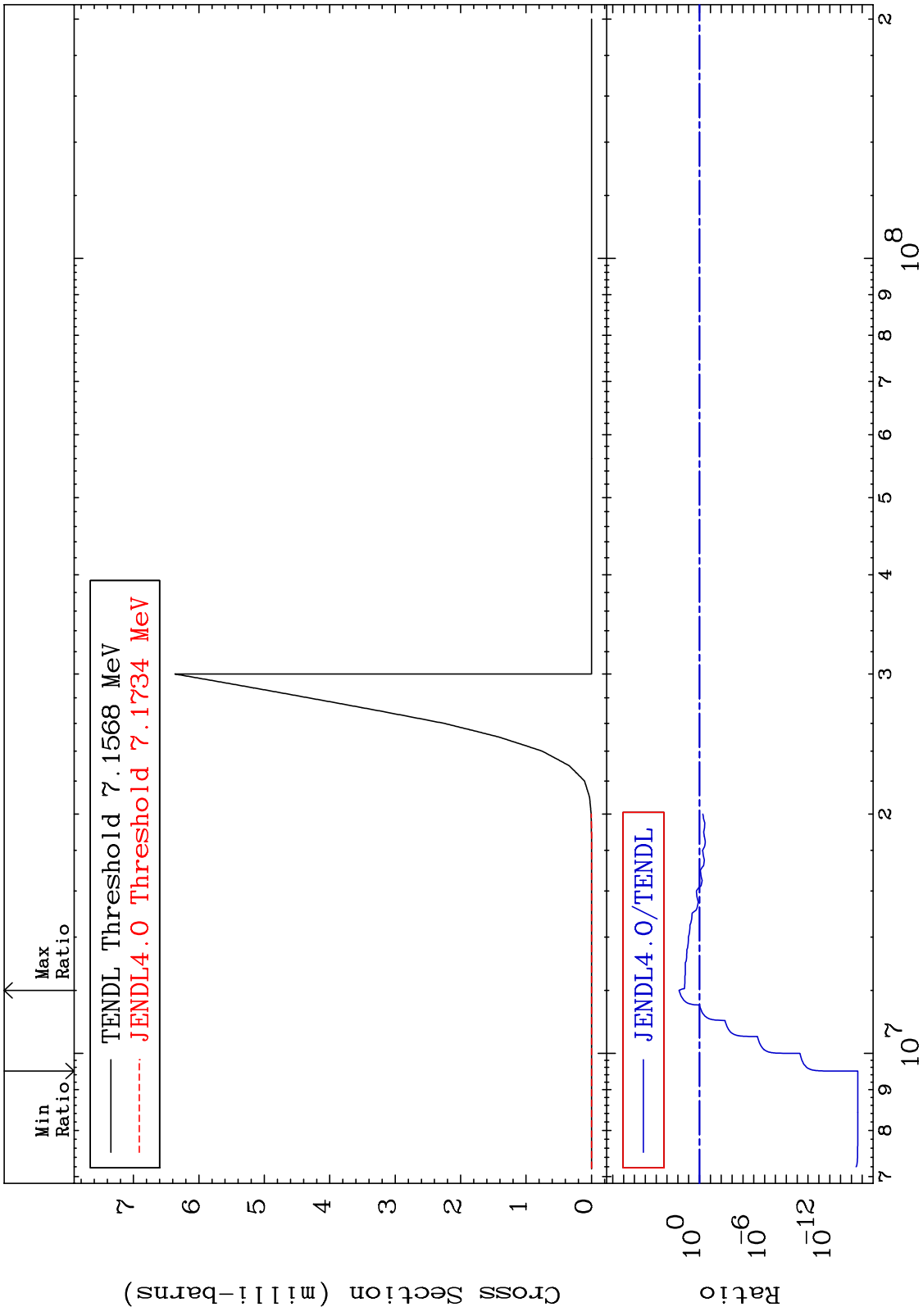
Cross Section (milli-barns)

JENDL4.0/TENDL

Ratio



MAT 6049 $(n, 2n) \alpha$ $^{60}\text{Nd-150}$
 Cross Section -100.0 To 7651. %



60-Nd-150 Incident Energy (eV) 60-Nd-150

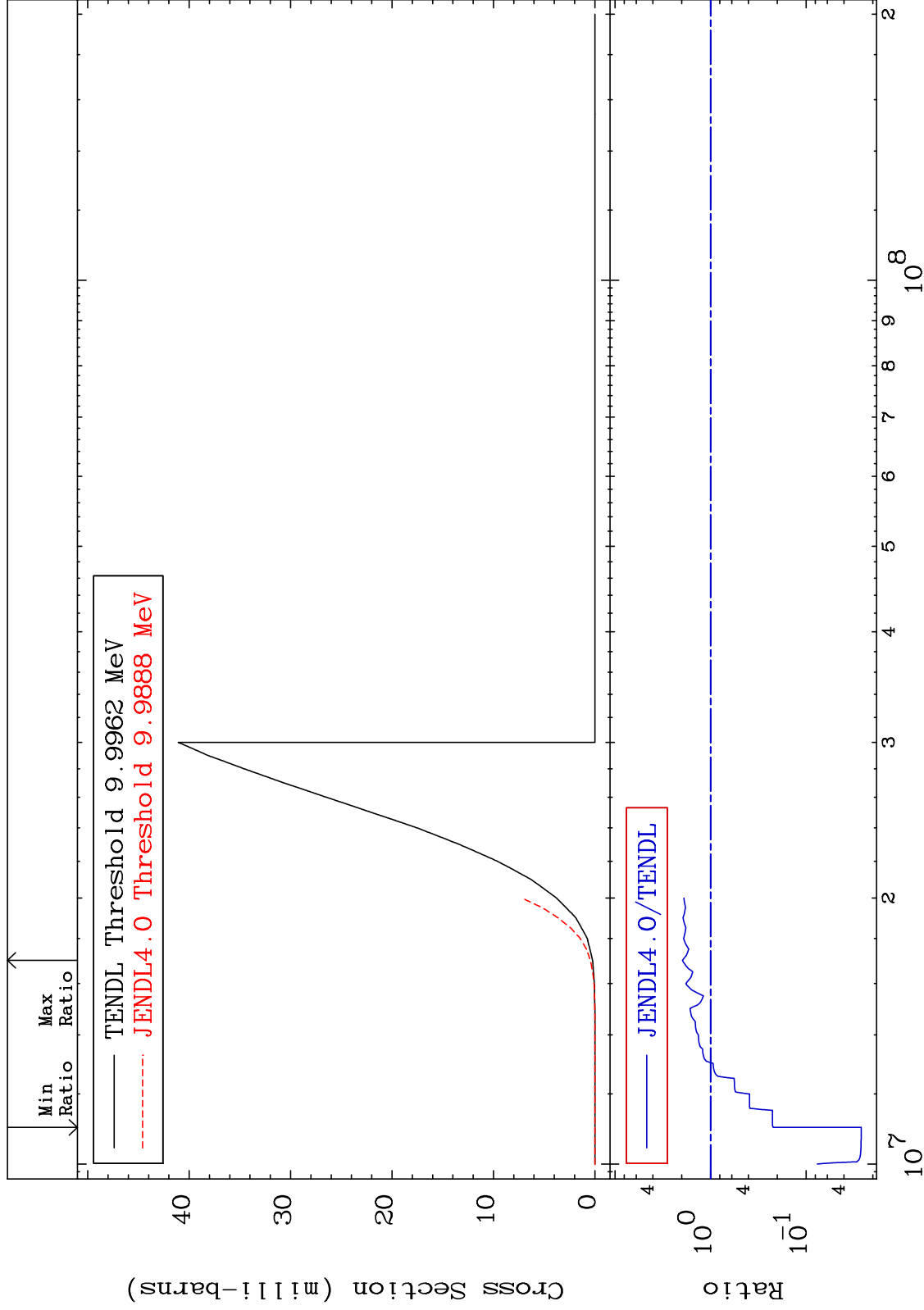
MAT 6049

(n,n') p

60-Nd-150

Cross Section

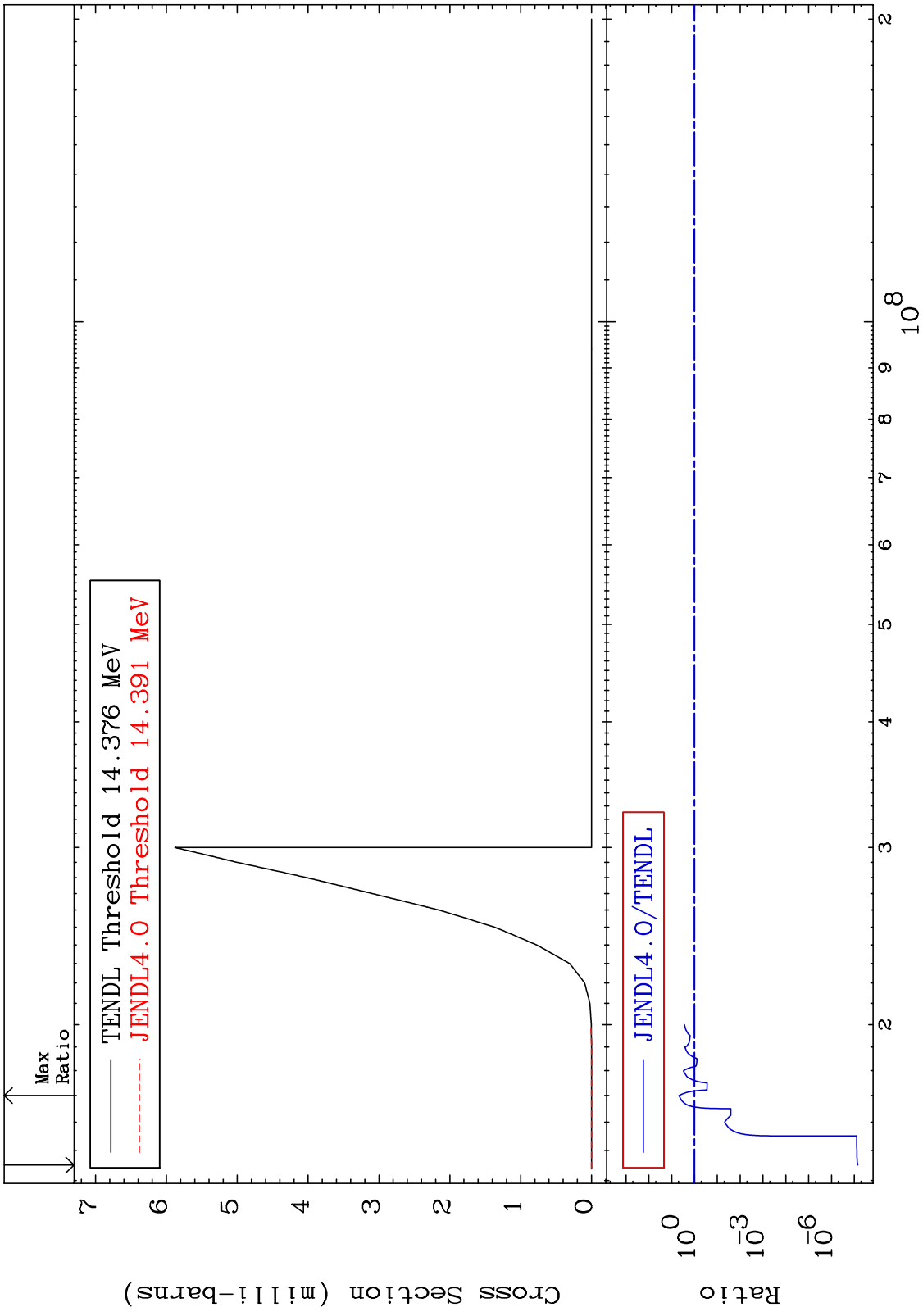
-97.36 To 96.59 %



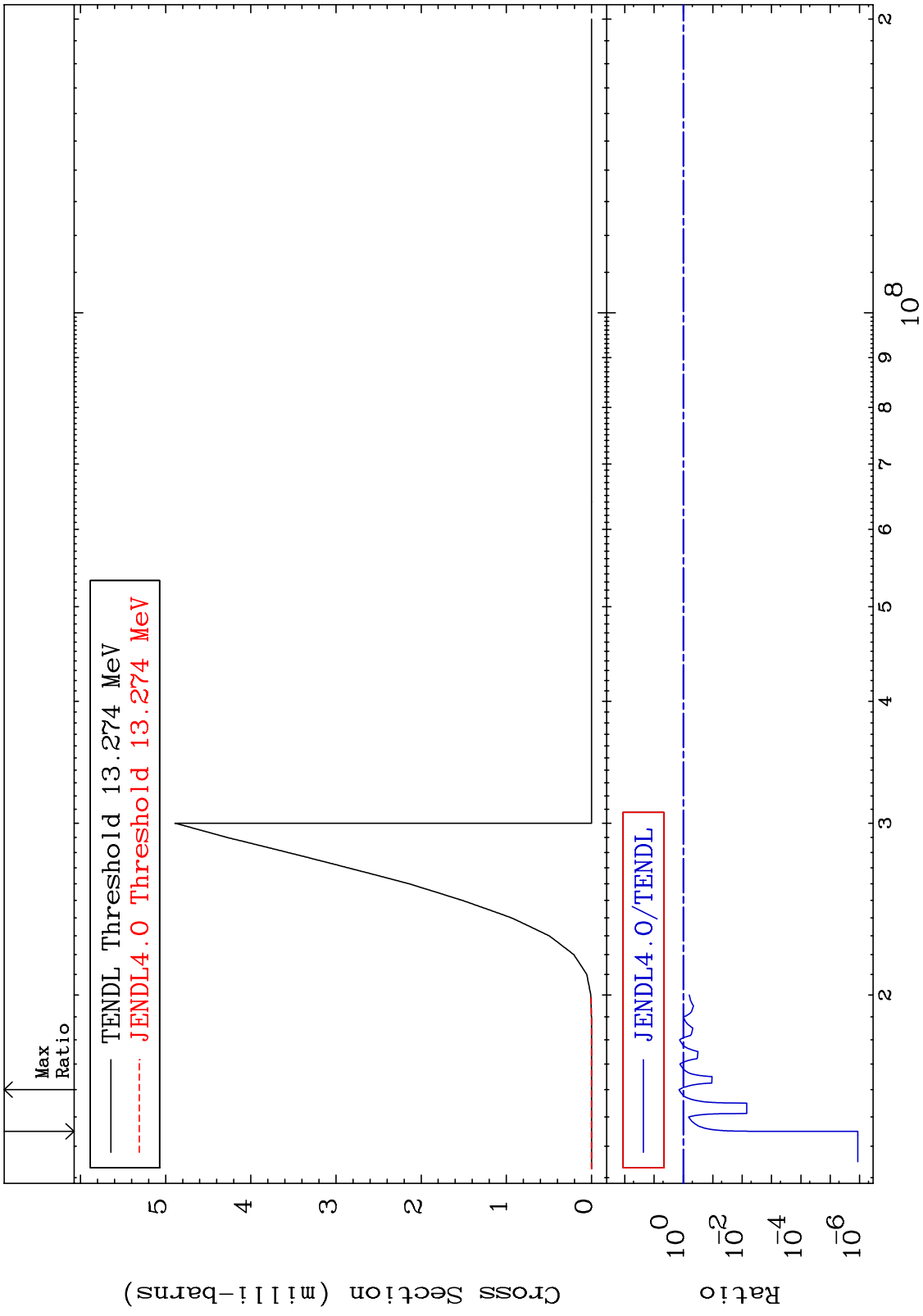
60-Nd-150

Incident Energy (eV)

MAT 6049 (n,n') d 60-Nd-150
 Cross Section -100.0 To 375.9 %

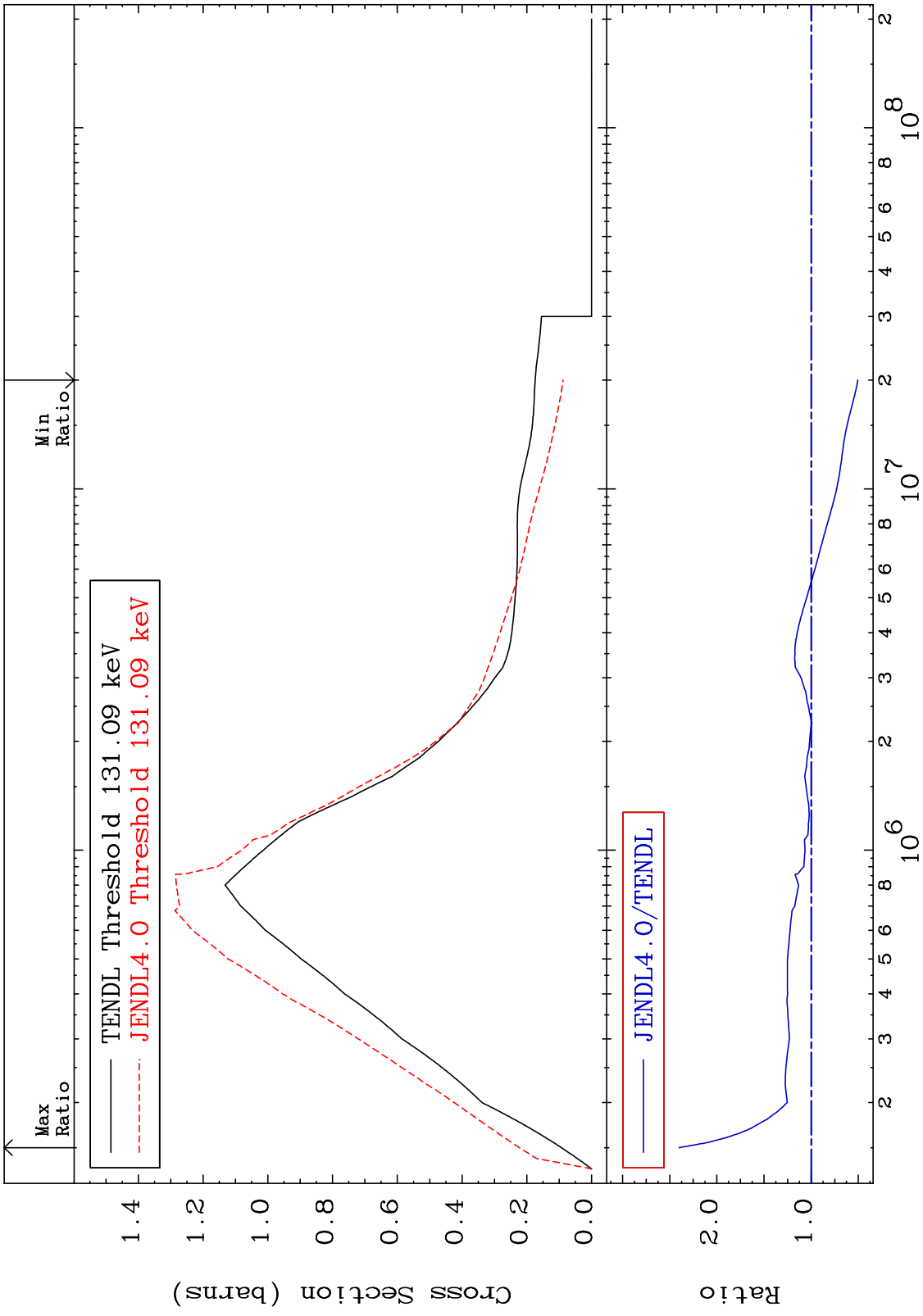


MAT 6049 (n,n') t 60-Nd-150
 Cross Section -100.0 To 41.29 %

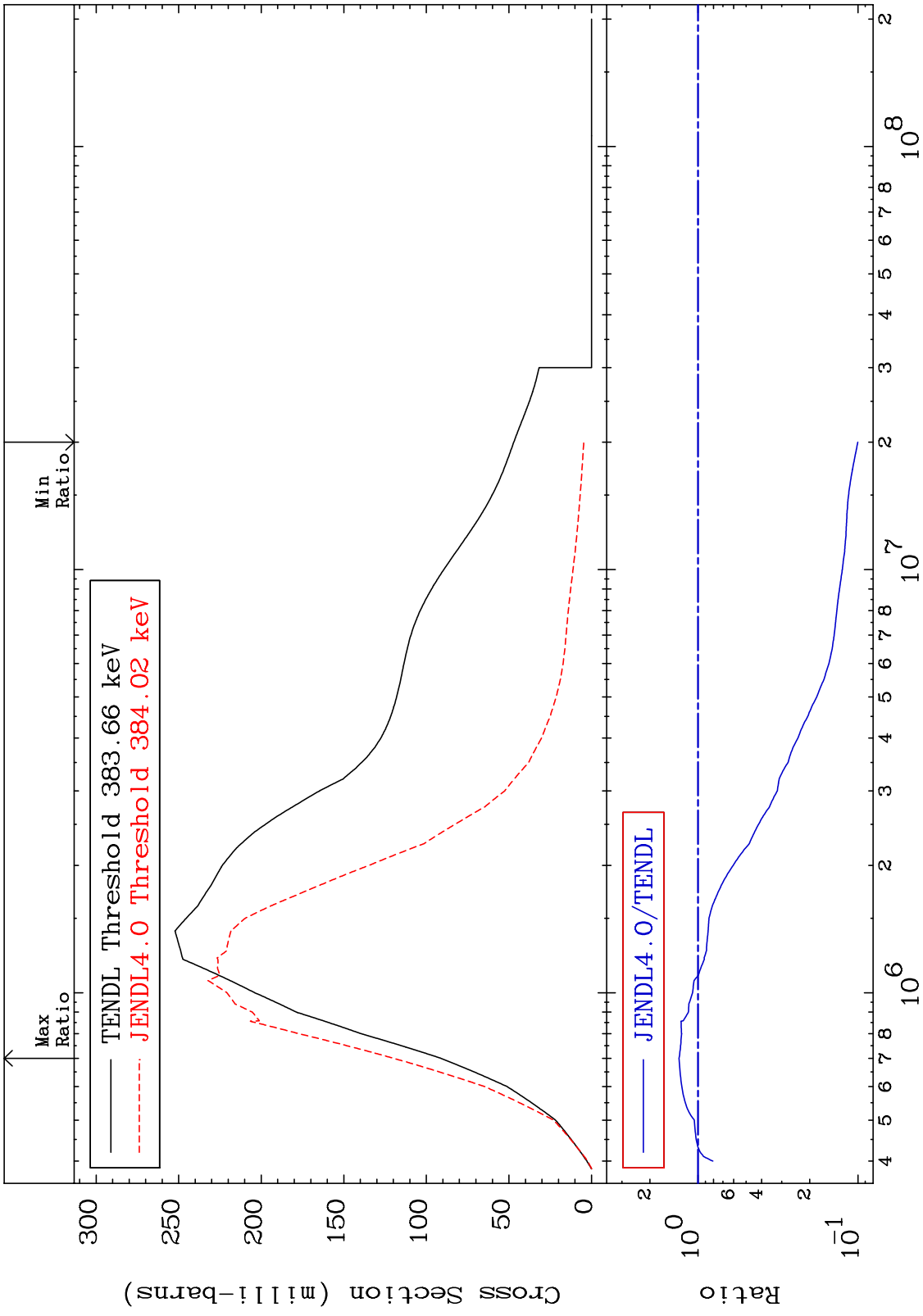


10 Incident Energy (eV) 60-Nd-150

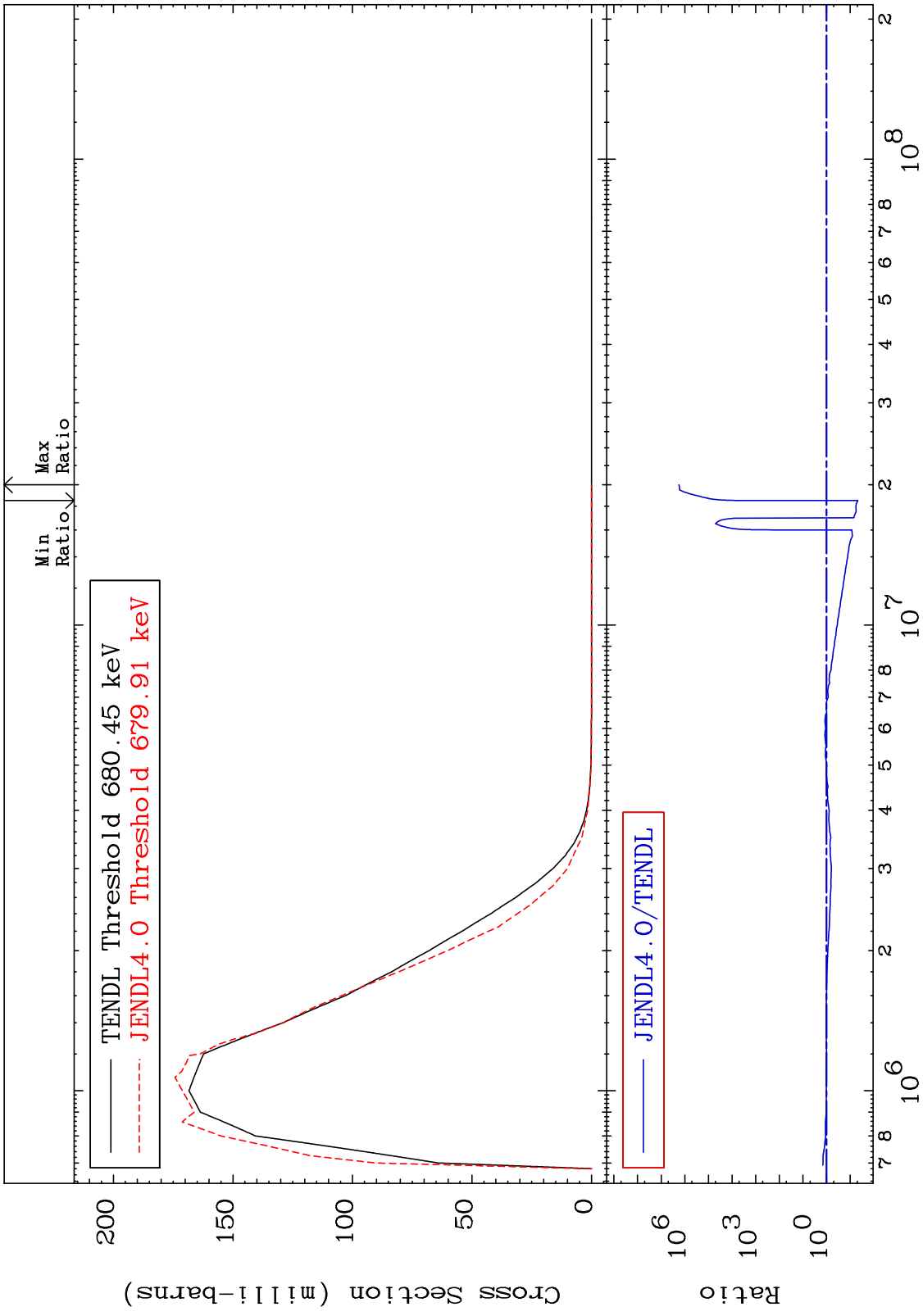
MAT 6049 MT= 51 (n,n') Level Cross Section 60-Nd-150
 -49.50 To 140.1 %



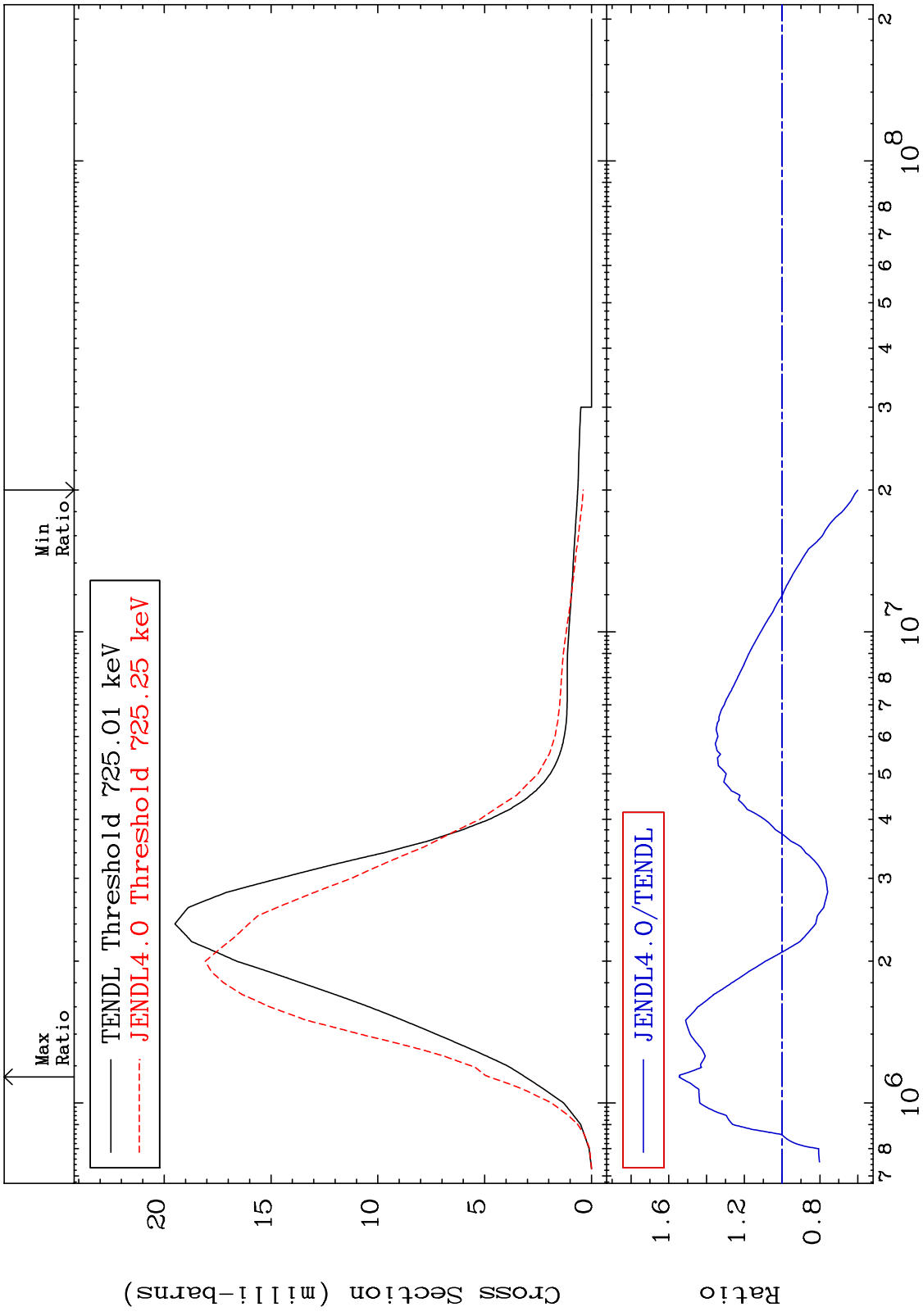
MAT 6049 MT= 52 (n,n') Level Cross Section 60-Nd-150
 -89.99 To 31.54 %



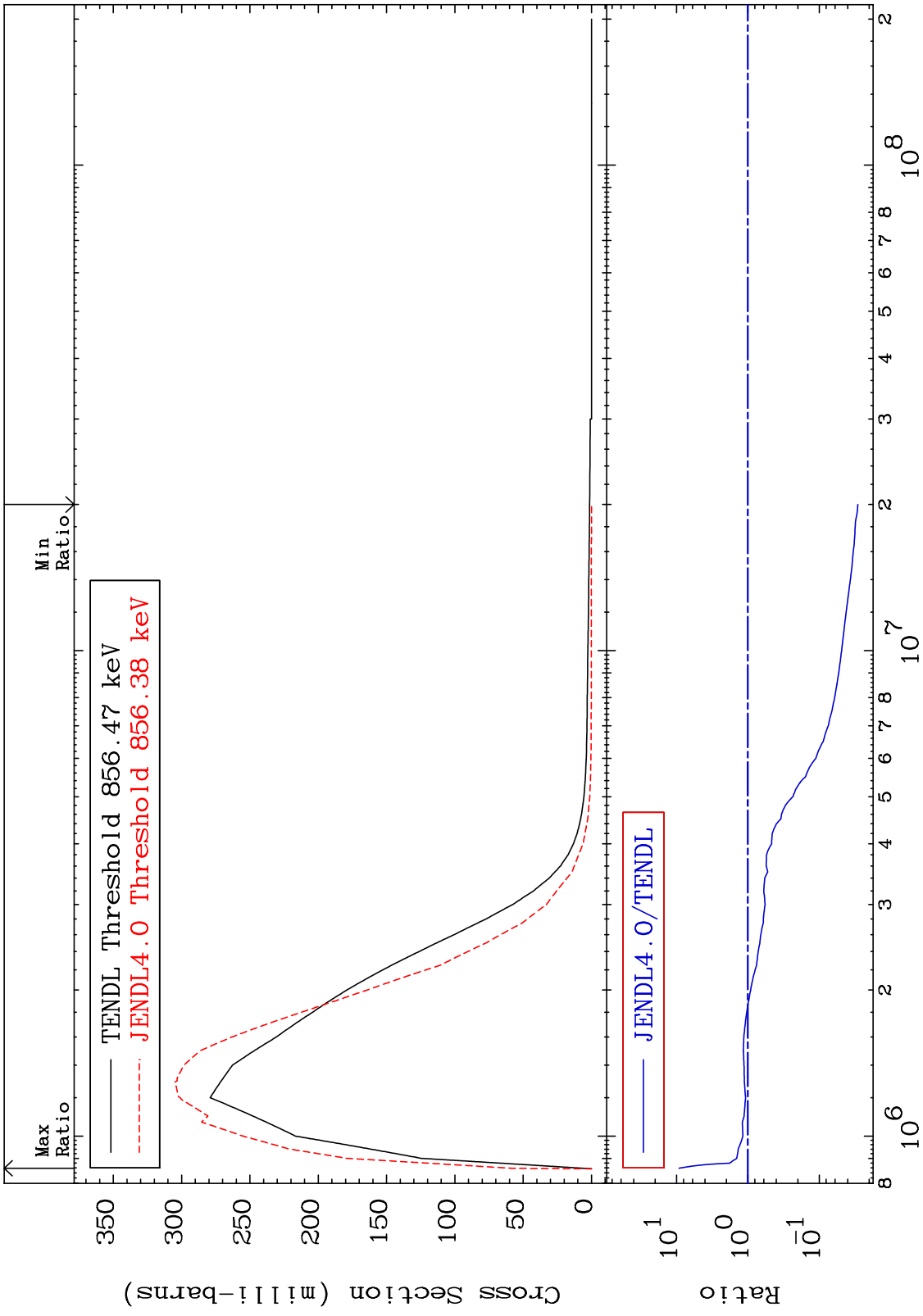
MAT 6049 MT= 53 (n,n') Level Cross Section 60-Nd-150
-95.26 To 9999. %



MAT 6049 MT= 54 (n,n') Level 60-Nd-150
 Cross Section -40.06 To 54.58 %

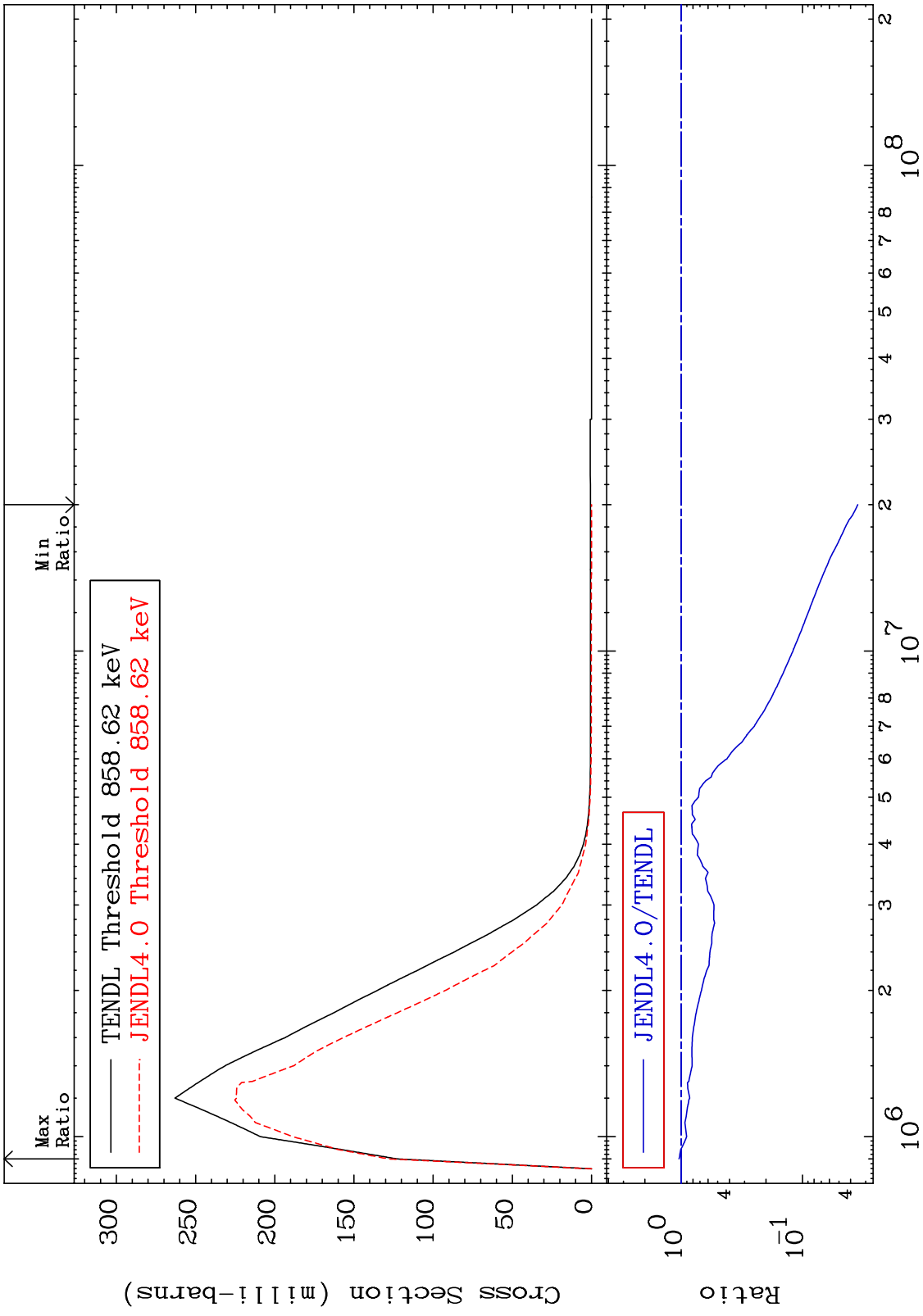


MAT 6049 MT= 55 (n,n') Level Cross Section 60-Nd-150 -97.12 To 824.1 %



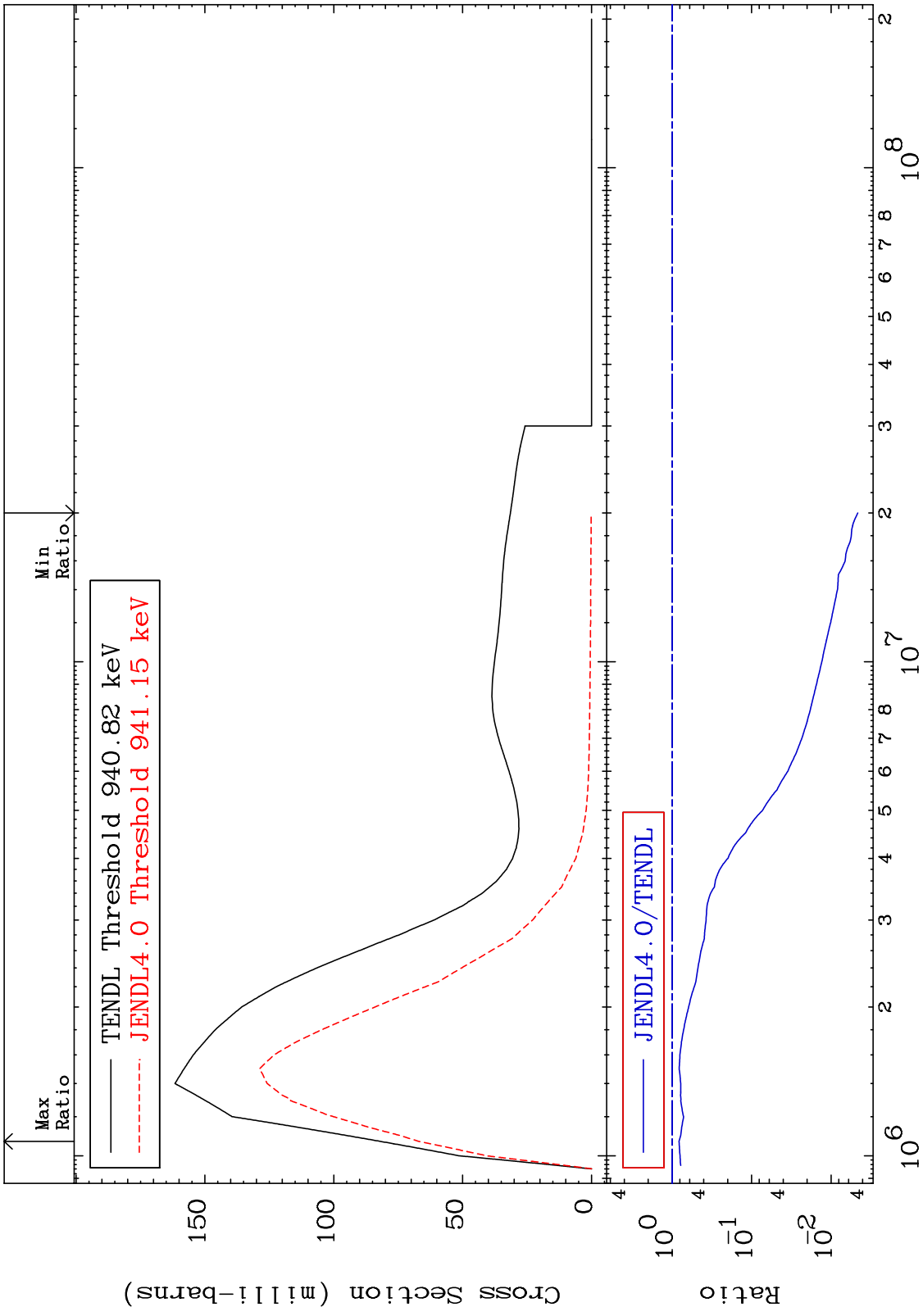
15 60-Nd-150

MAT 6049 MT= 56 (n,n') Level 60-Nd-150
Cross Section -96.51 To 4.300 %

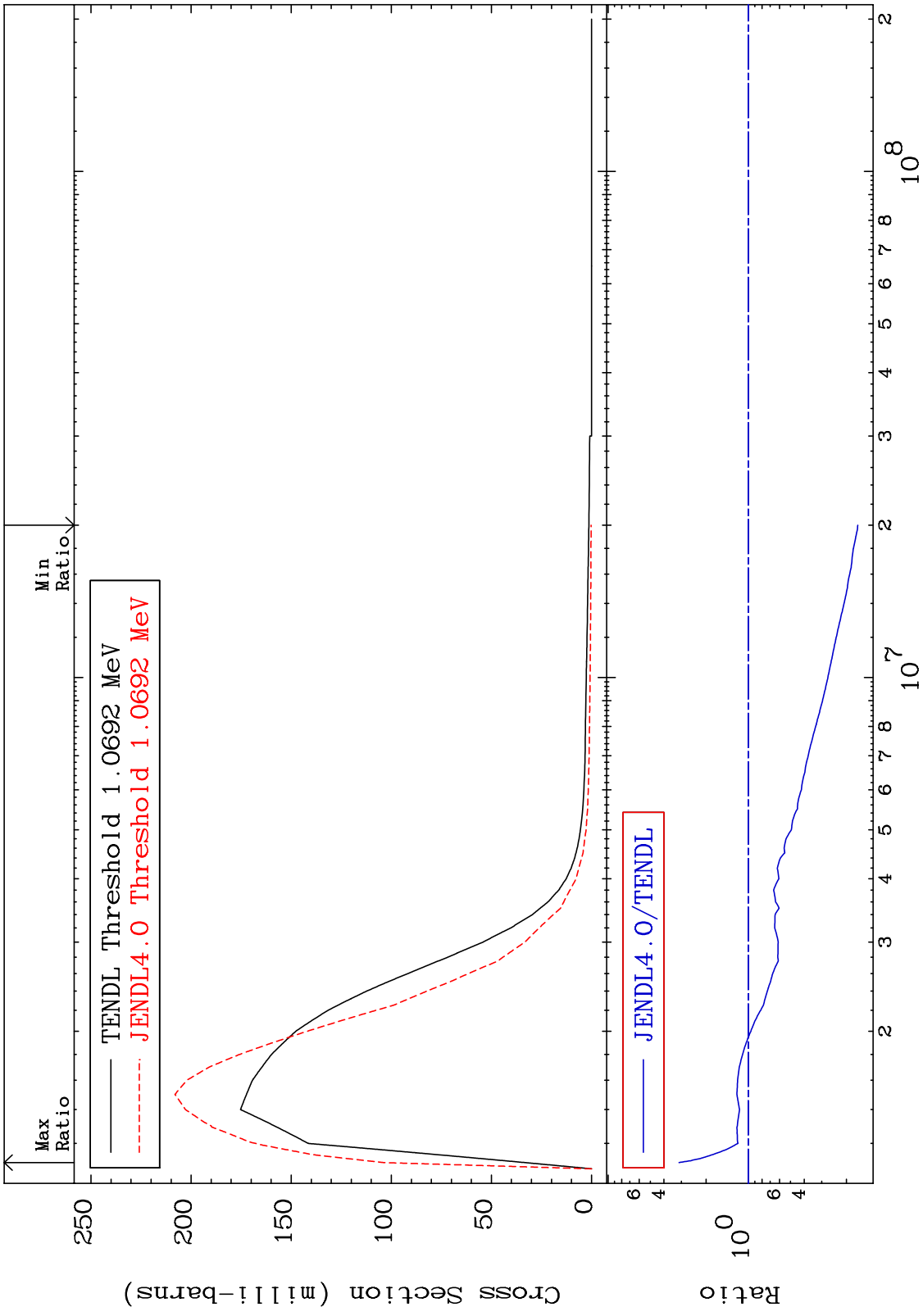


16 Incident Energy (eV) 60-Nd-150

MAT 6049 MT= 57 (n,n') Level Cross Section 60-Nd-150
-99.54 To -18.18%

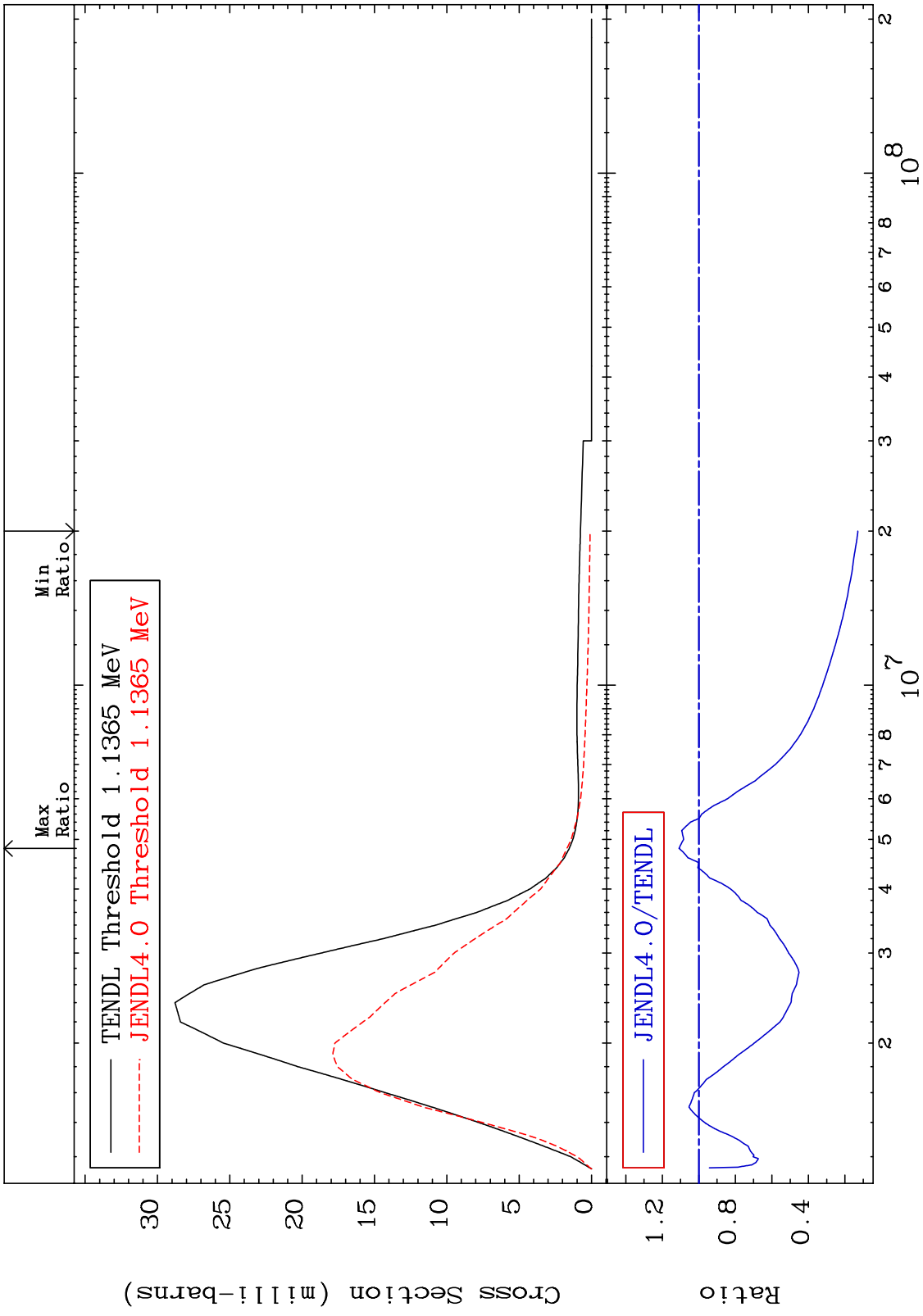


MAT 6049 MT= 58 (n,n') Level Cross Section 60-Nd-150
 -83.44 To 212.1 %

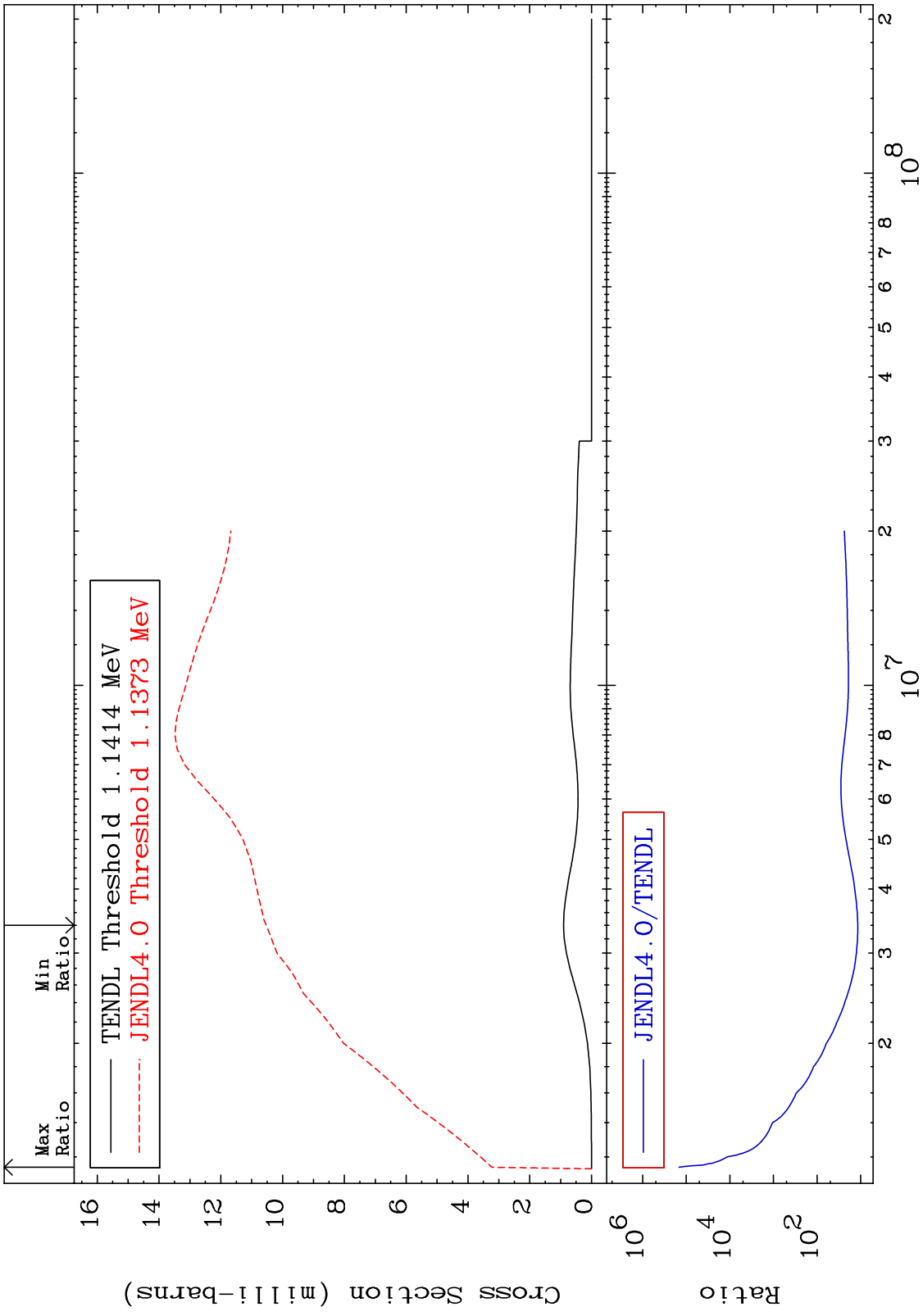


18 60-Nd-150 Incident Energy (eV)

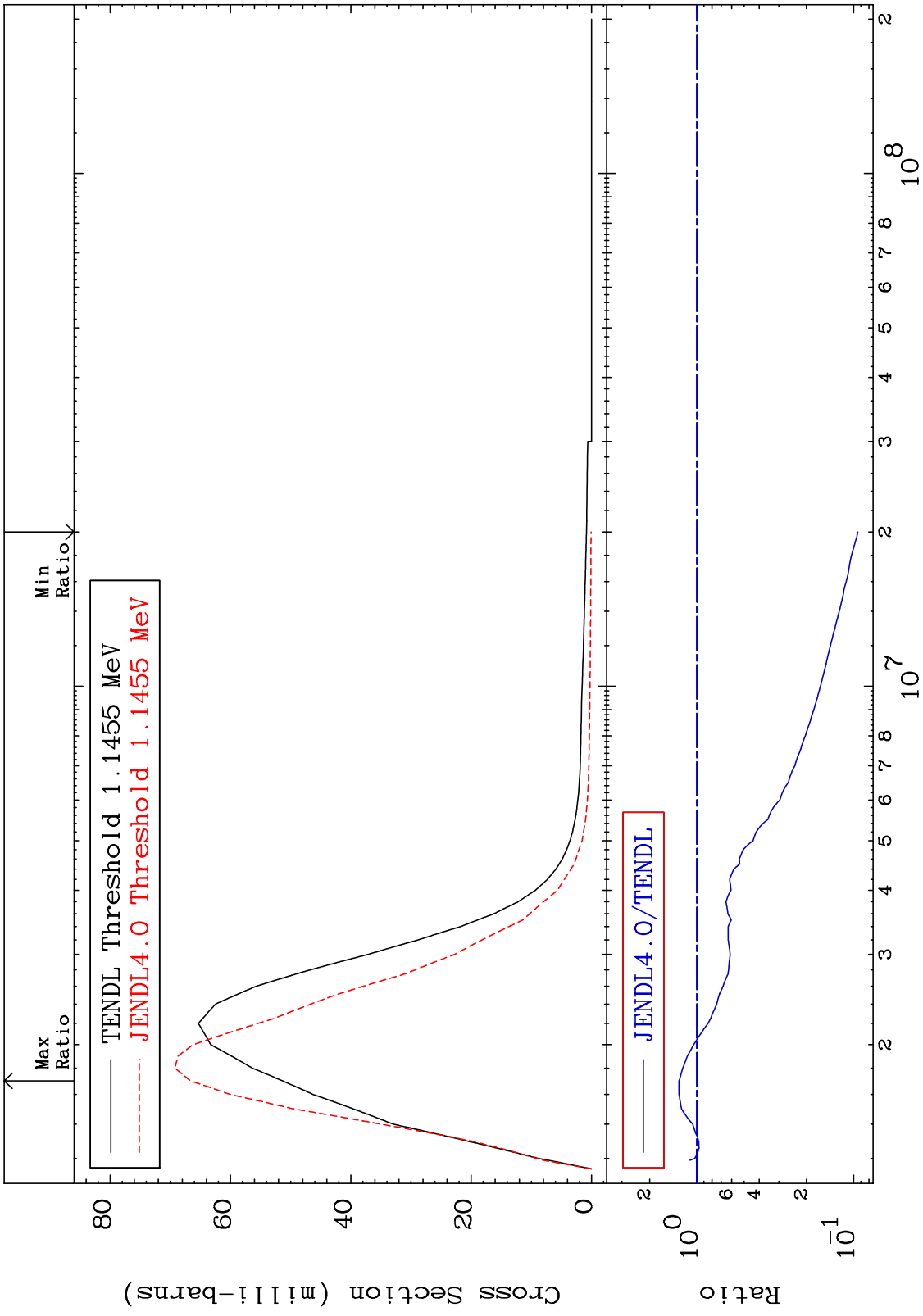
MAT 6049 MT= 59 (n,n') Level Cross Section 60-Nd-150
 -87.07 To 10.84 %



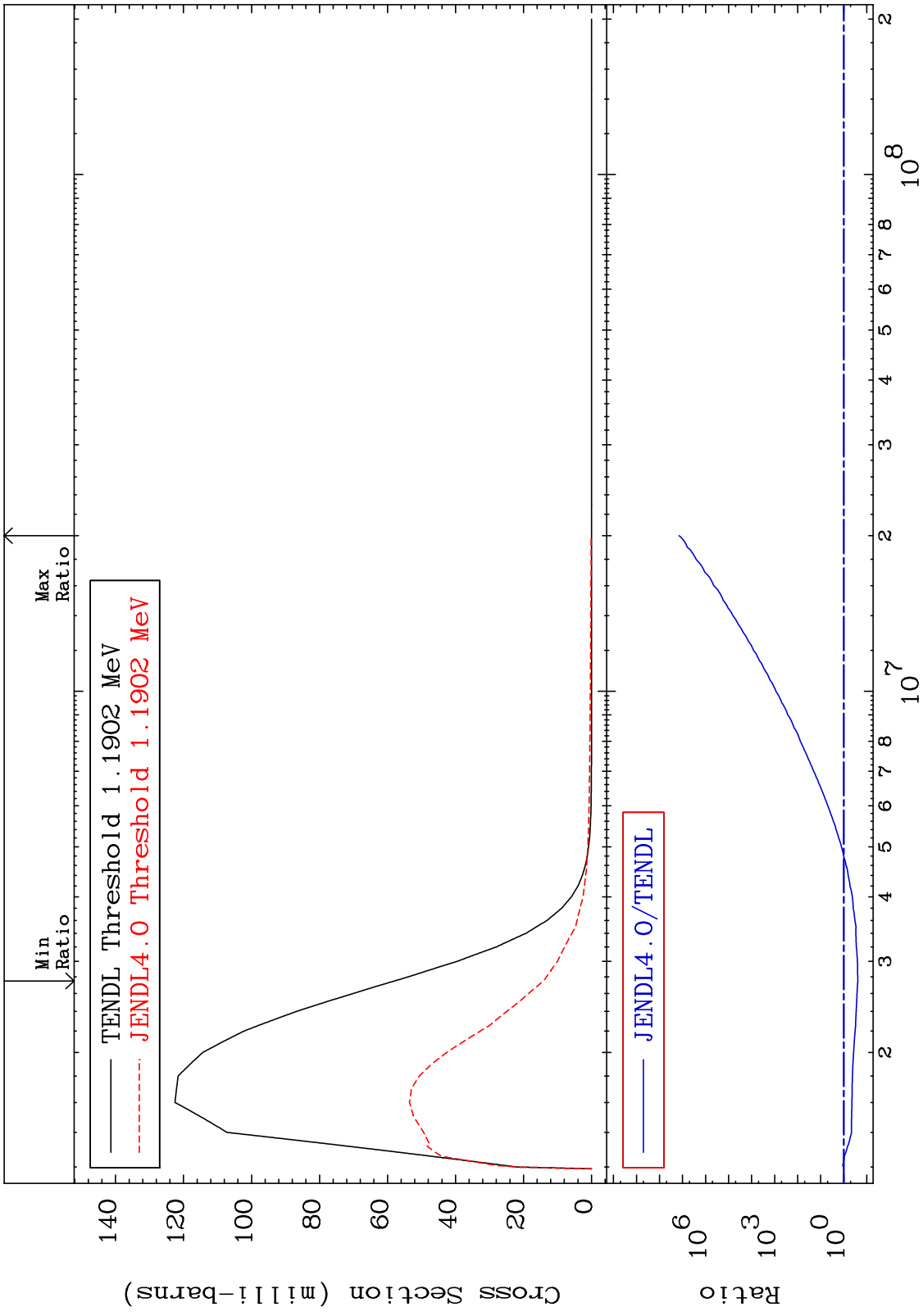
MAT 6049 MT= 60 (n,n') Level Cross Section 60-Nd-150 1060. To 9999. %



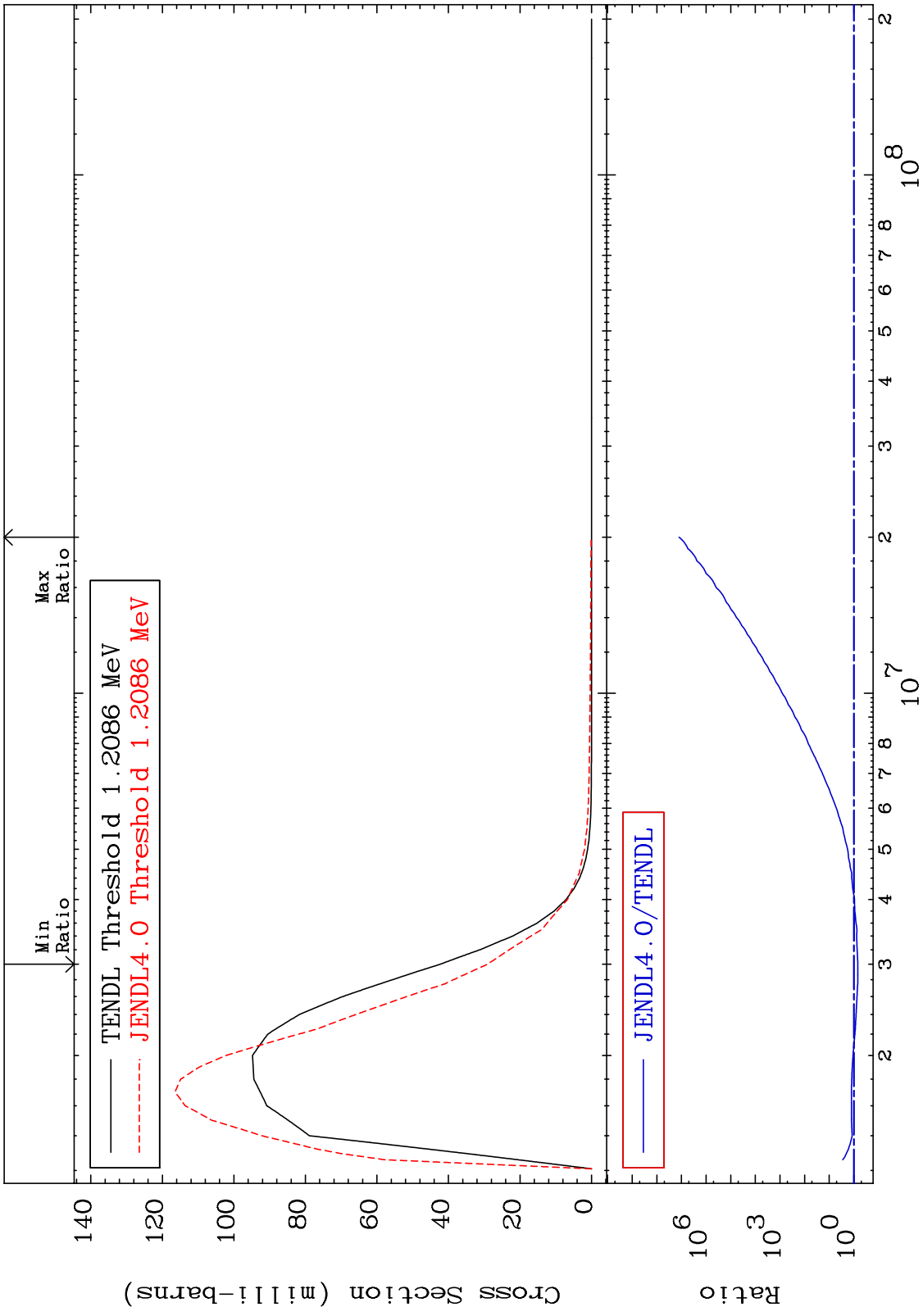
MAT 6049 MT= 61 (n,n') Level Cross Section 60-Nd-150
 -90.59 To 29.81 %



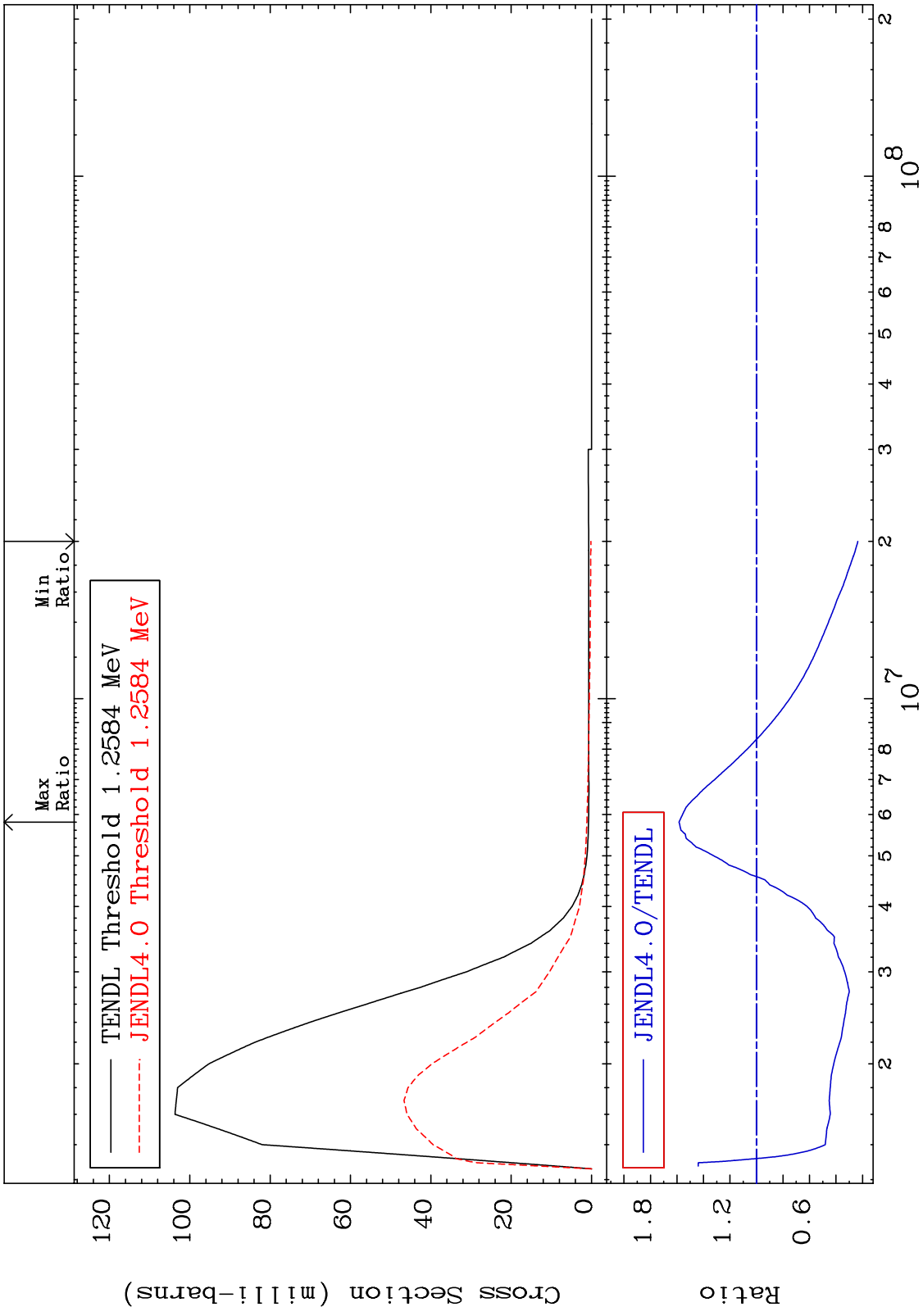
MAT 6049 MT= 62 (n,n') Level Cross Section 60-Nd-150
 -75.69 To 9999. %



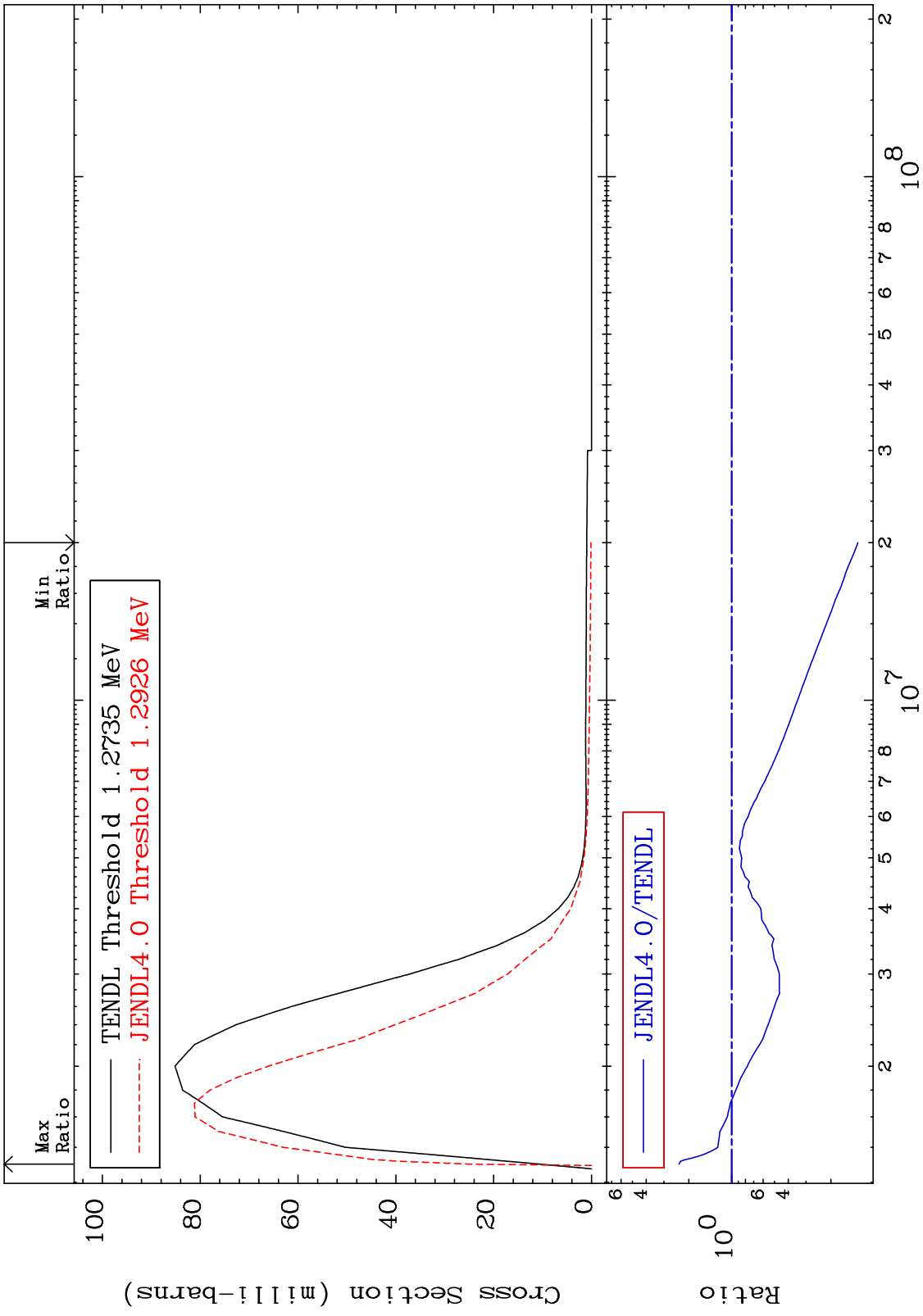
MAT 6049 MT= 63 (n,n') Level Cross Section 60-Nd-150
 -31.36 To 9999. %



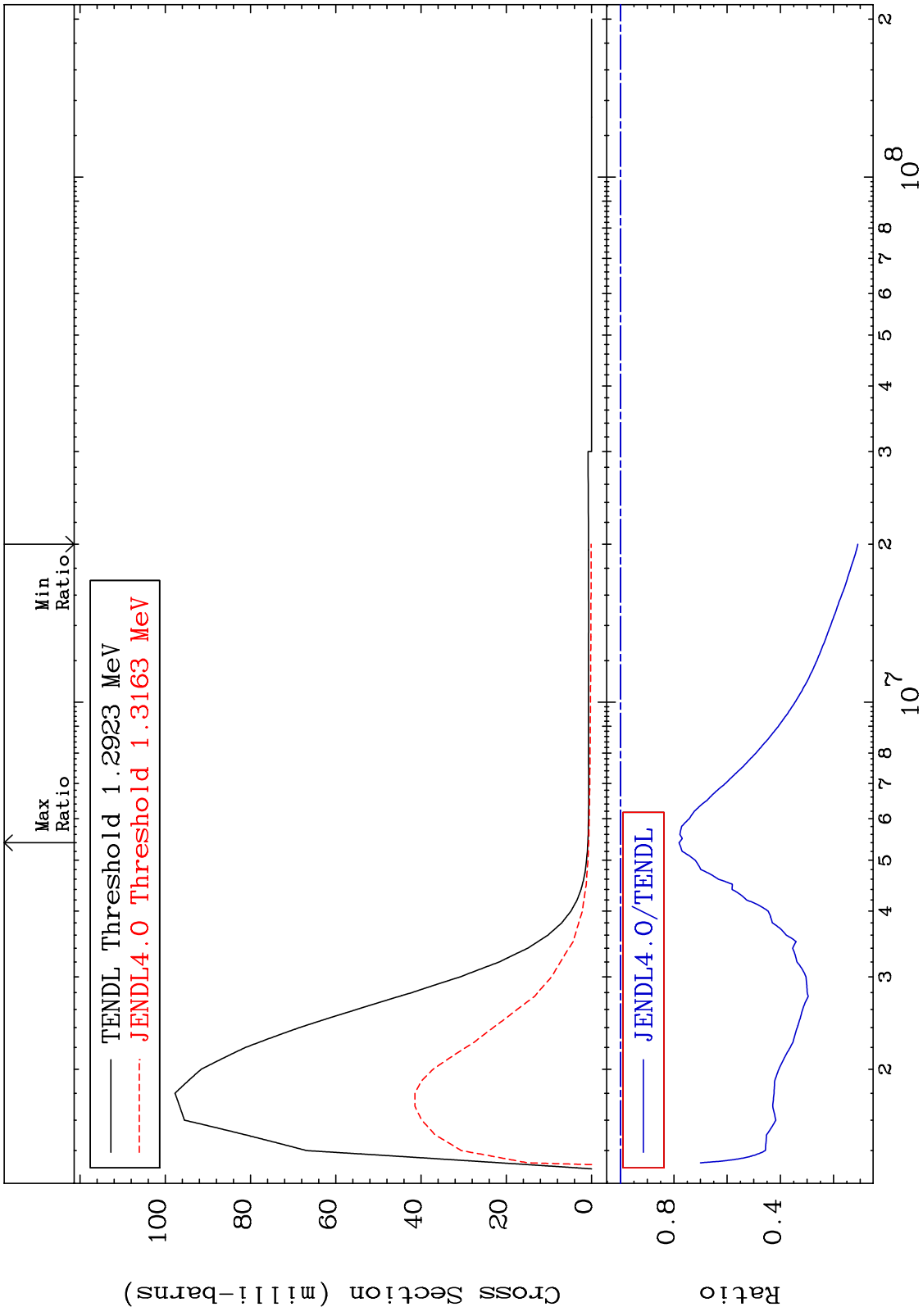
MAT 6049 MT= 64 (n,n') Level Cross Section 60-Nd-150
 -76.48 To 58.43 %



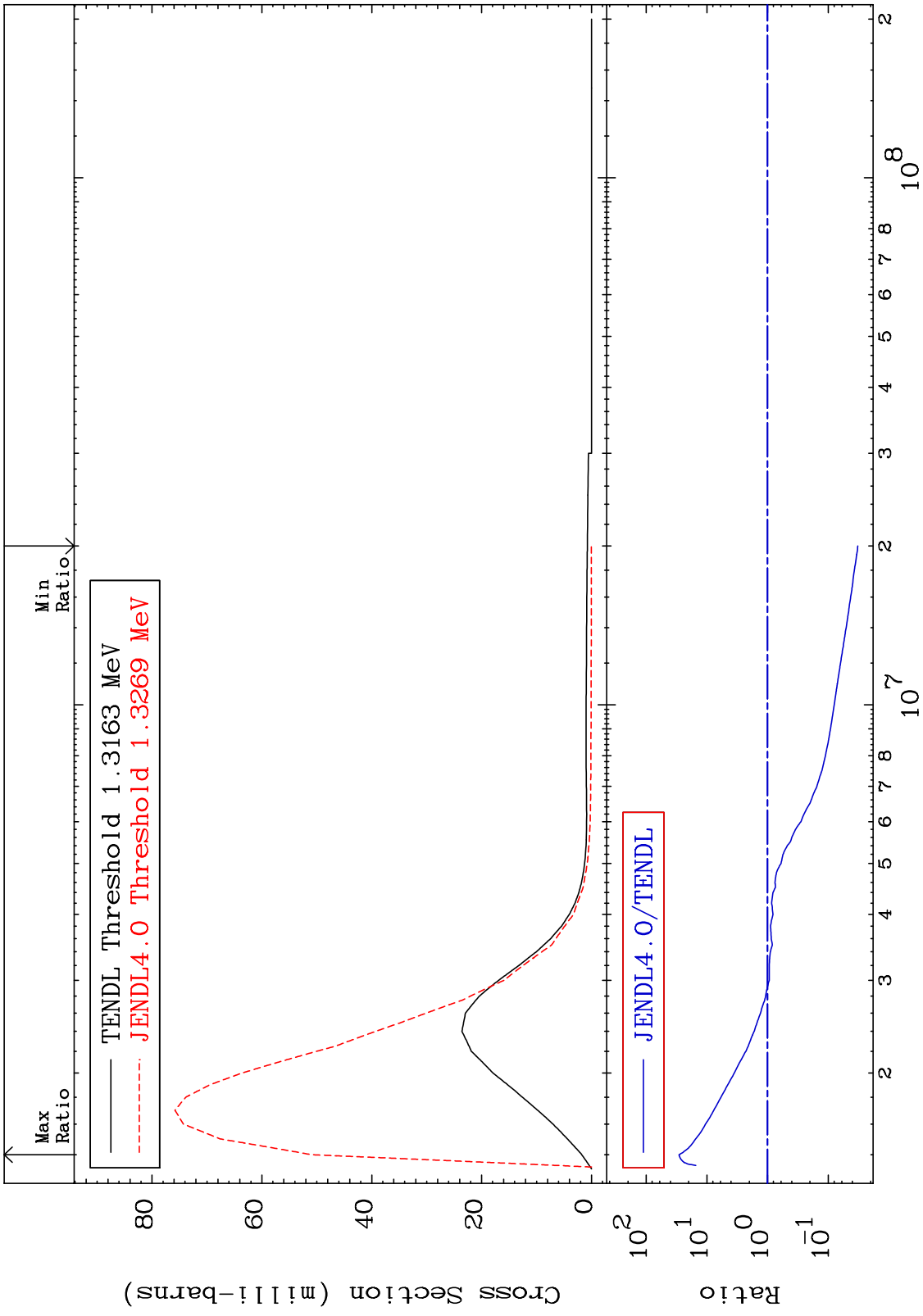
MAT 6049 MT= 65 (n,n') Level Cross Section 60-Nd-150
 -87.07 To 134.6 %



MAT 6049 MT= 66 (n,n') Level Cross Section 60-Nd-150 -89.09 To -21.94%



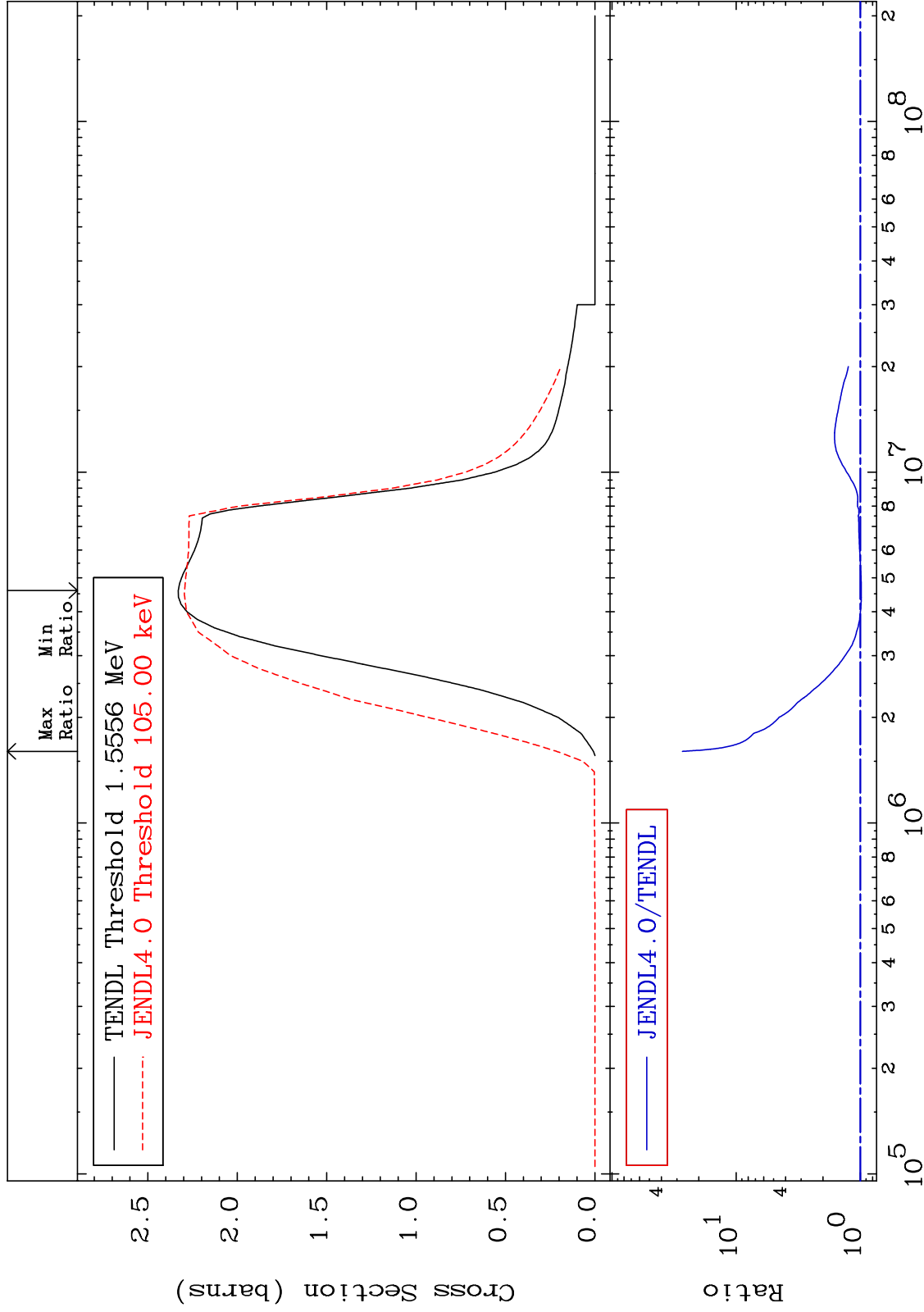
MAT 6049 MT= 67 (n,n') Level Cross Section 60-Nd-150
 -96.74 To 2784. %



MAT 6049

(n, n') Continuum
Cross Section

60-Nd-150
-1.517 To 2607. %



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Incident Energy (eV)

60-Nd-150

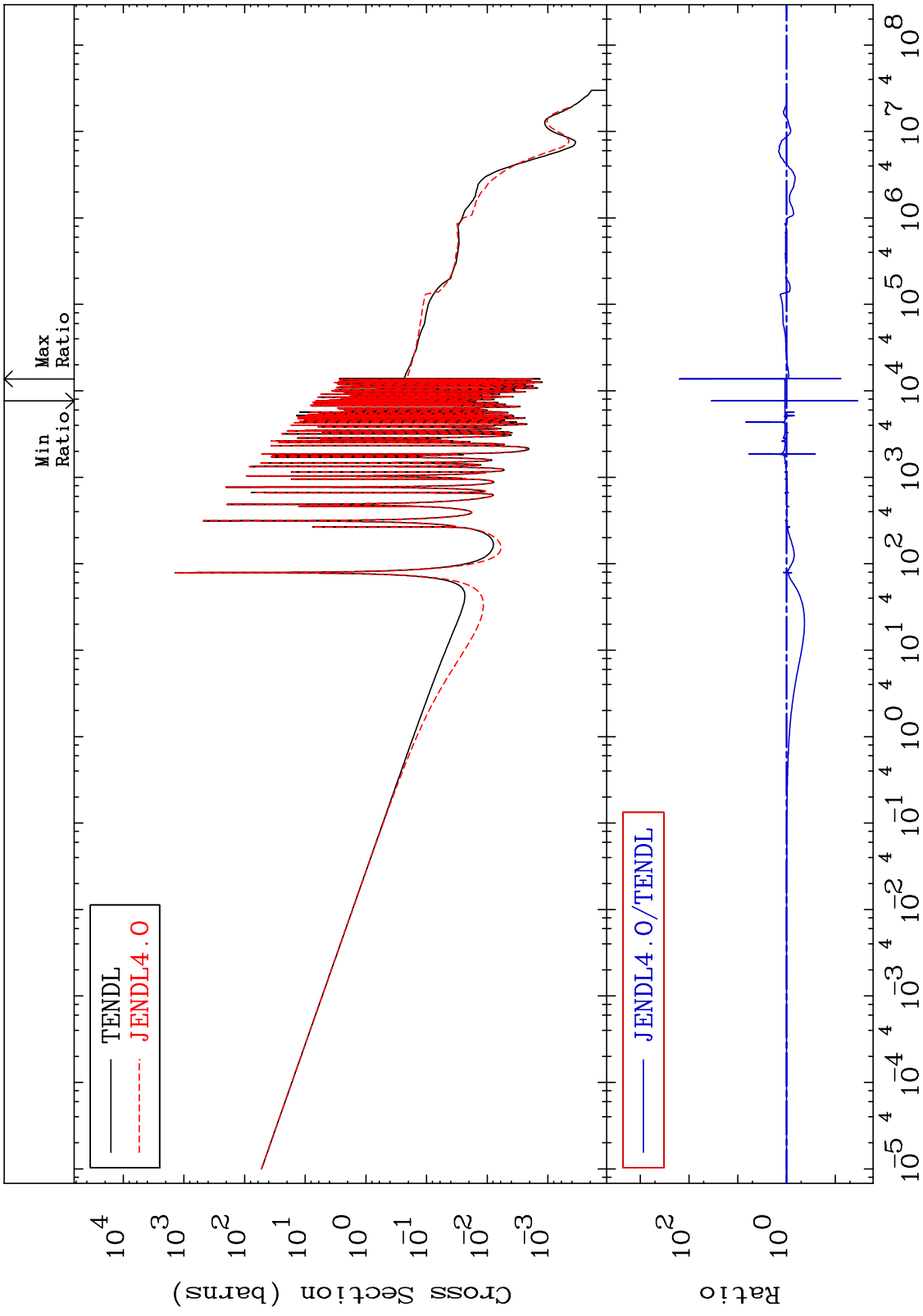
MAT 6049

(n, γ)

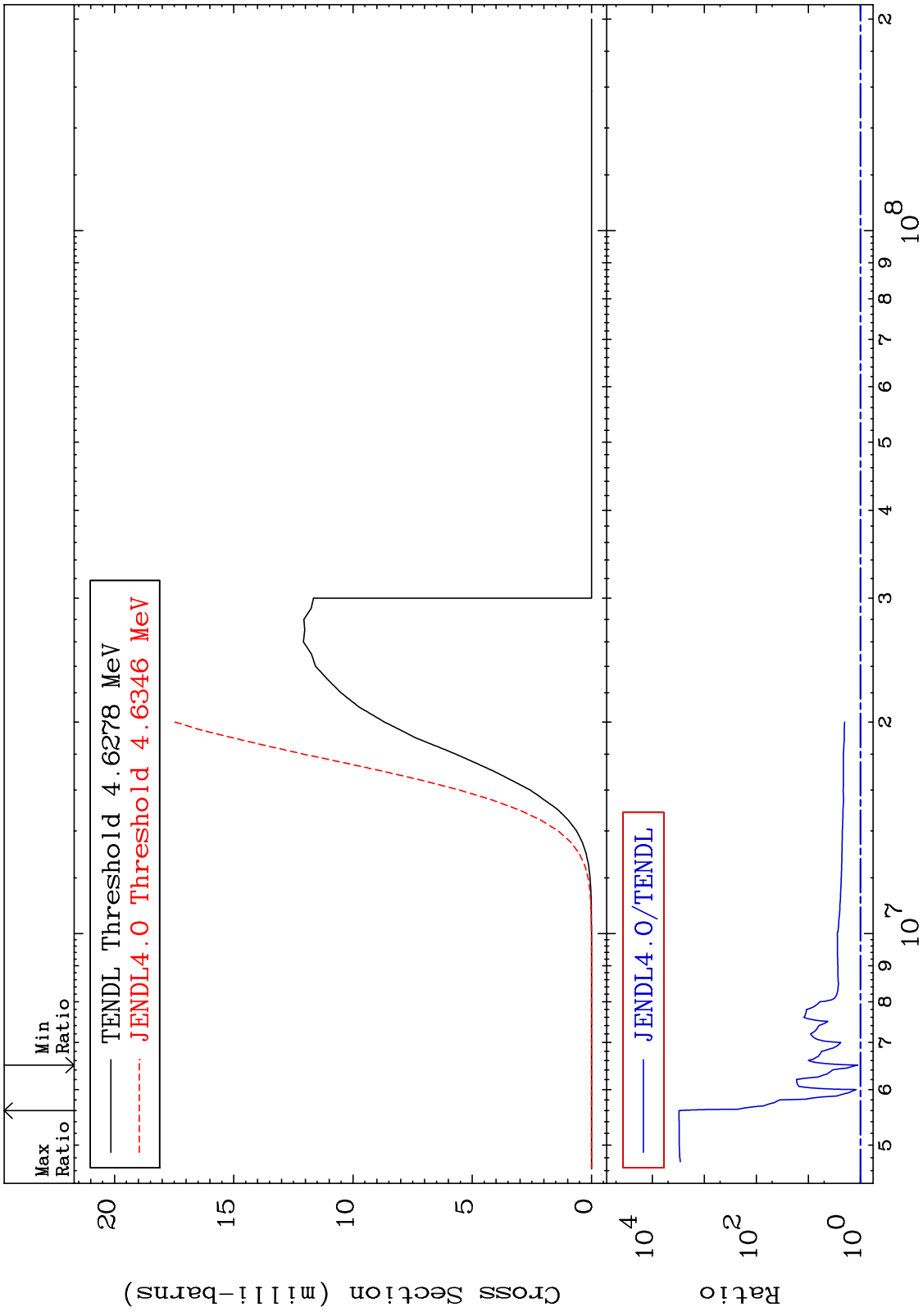
60-Nd-150

Cross Section

-96.55 To 9999. %

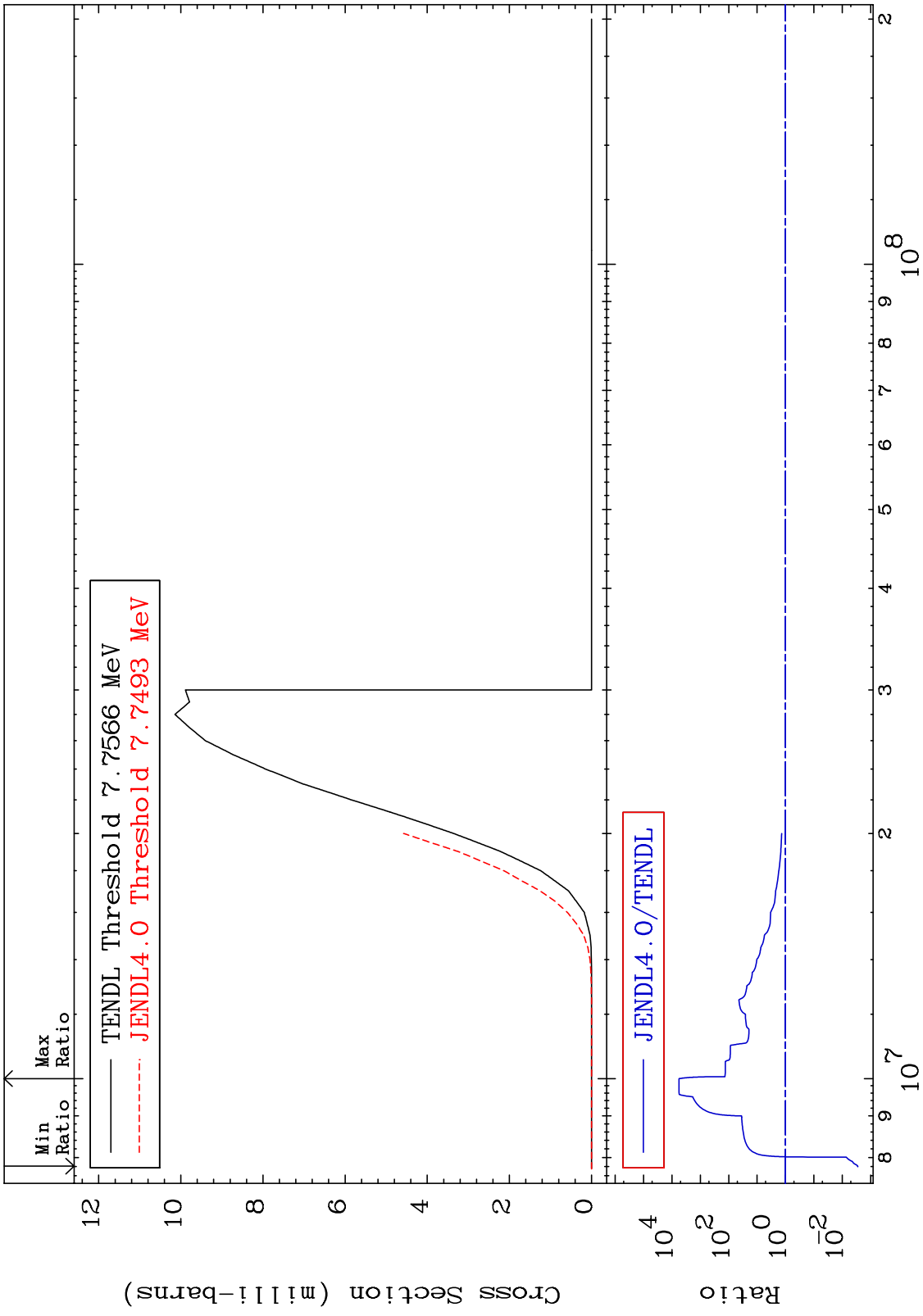


MAT 6049 (n,p) Cross Section 60-Nd-150 To 9999. %
 12.16

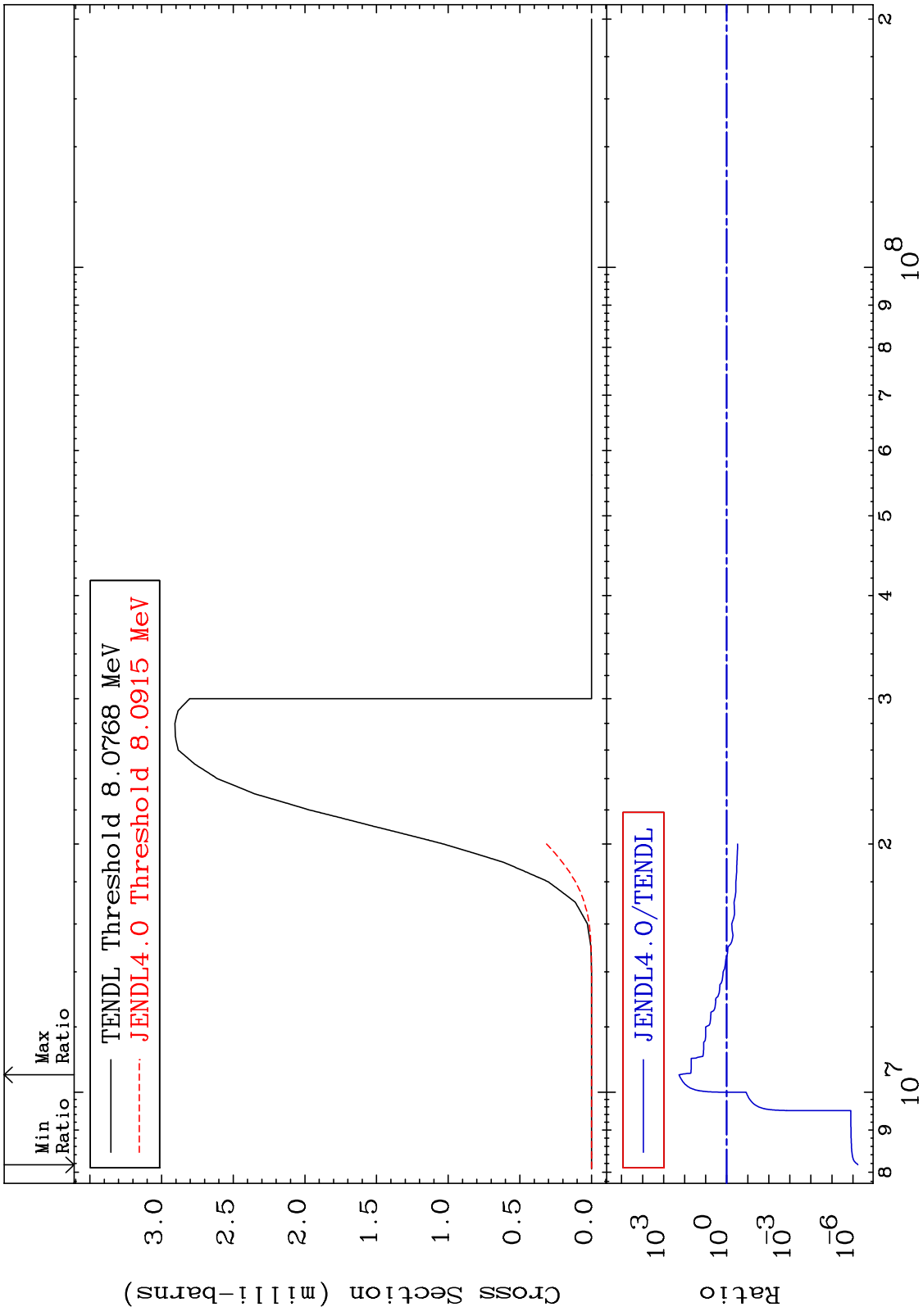


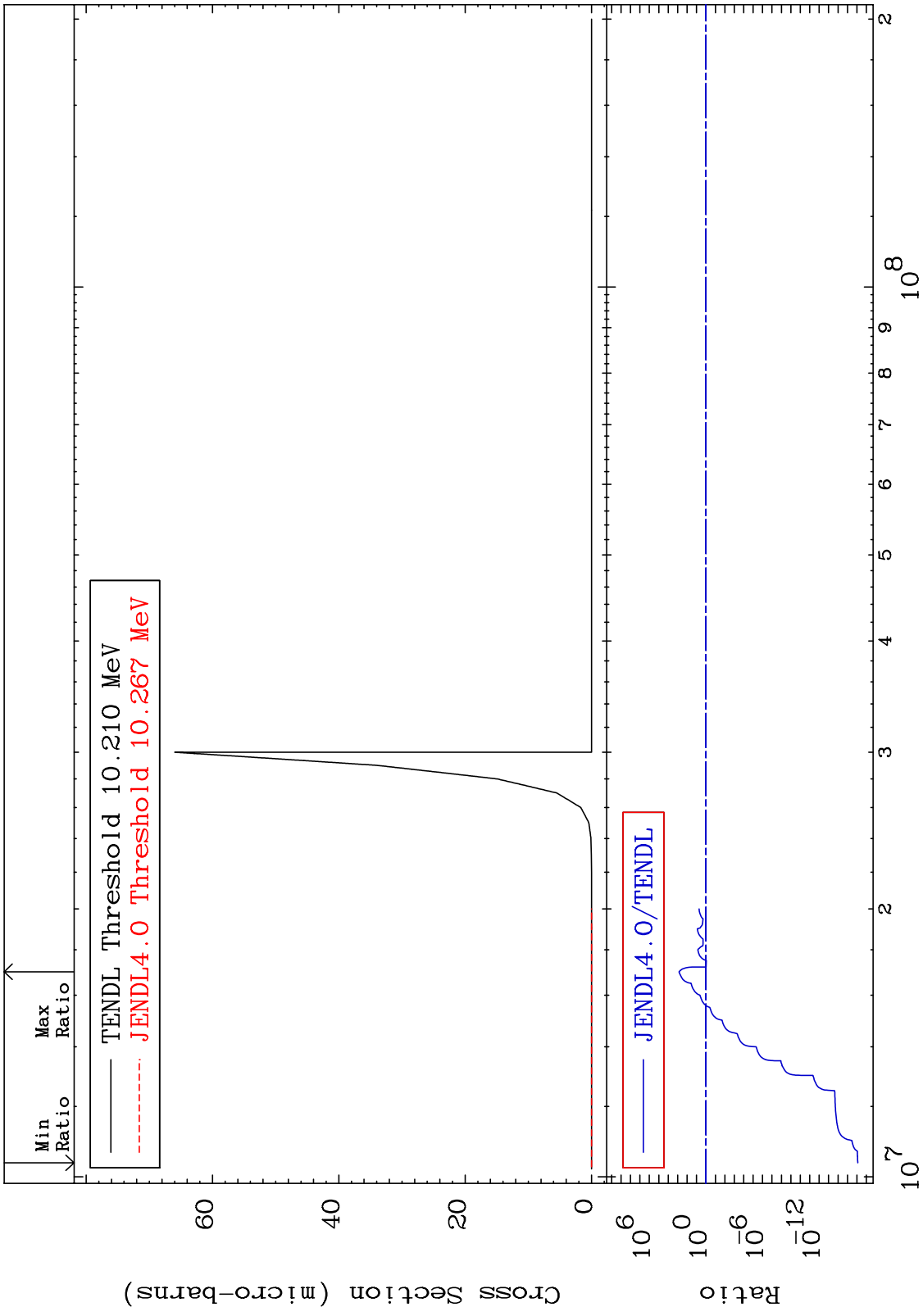
30 60-Nd-150

MAT 6049 (n,d) Cross Section 60-Nd-150 -99.72 To 9999. %



MAT 6049 (n,t) Cross Section 60-Nd-150 -100.0 To 9999. %





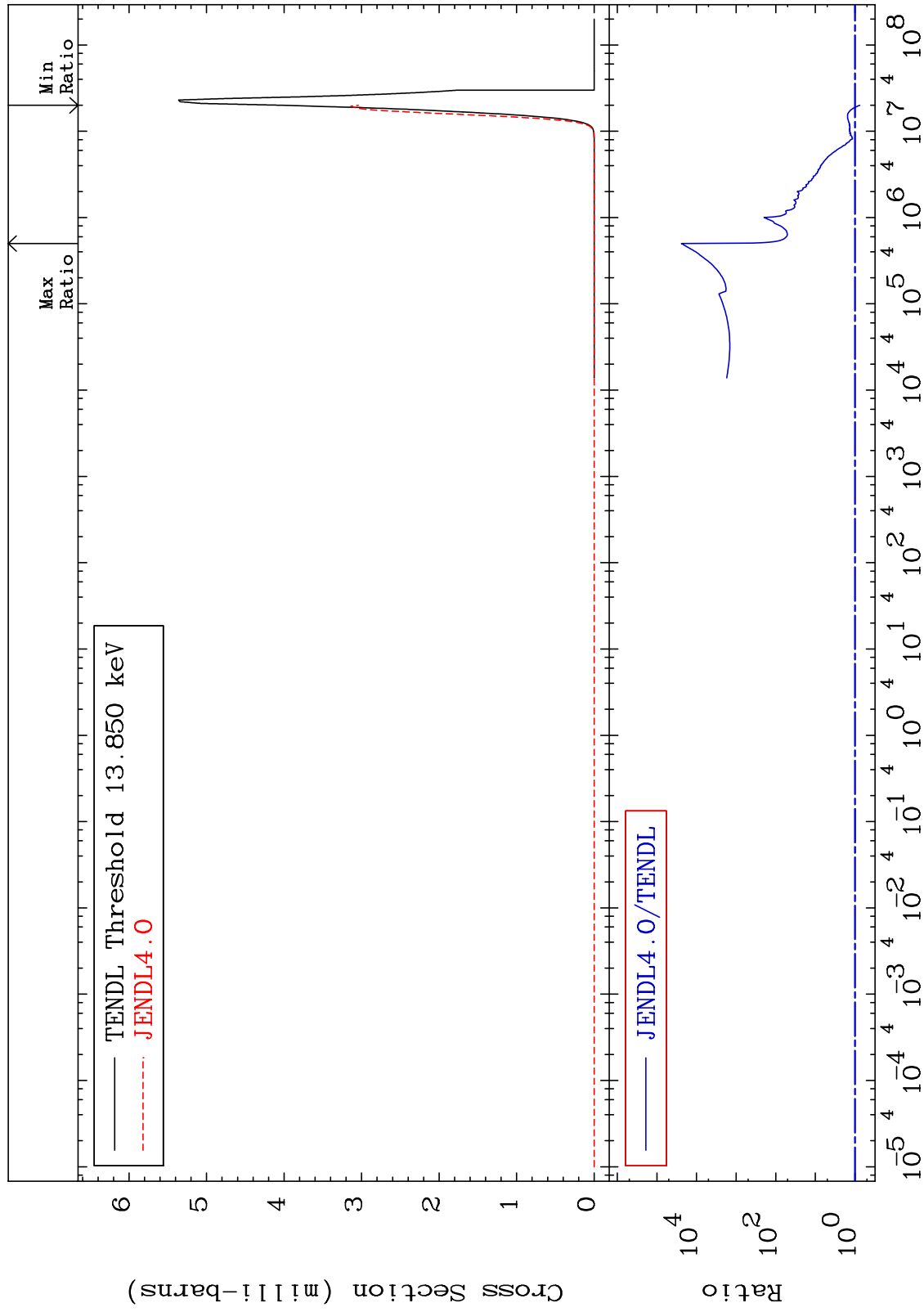
MAT 6049

(n, α)

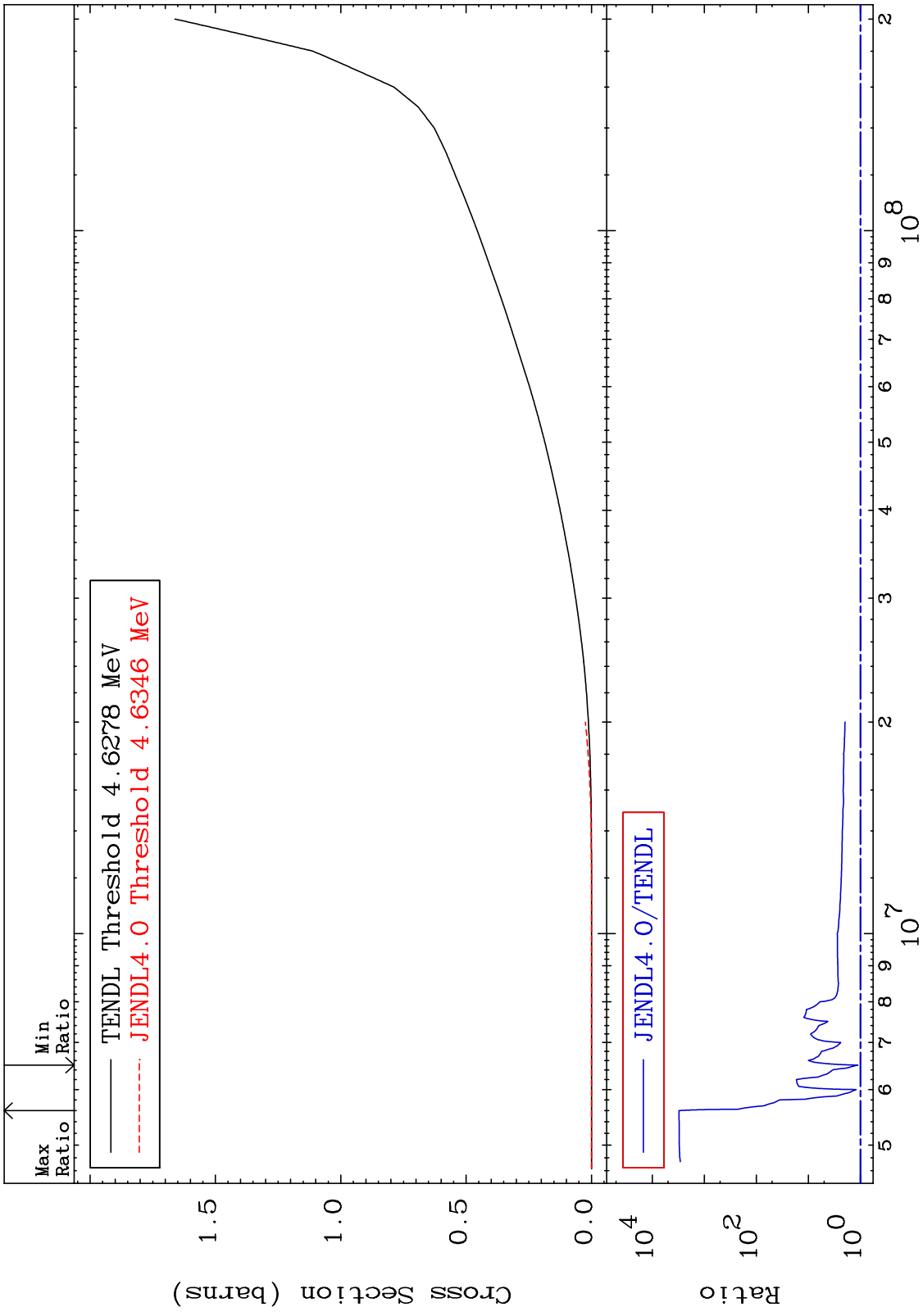
60-Nd-150

Cross Section

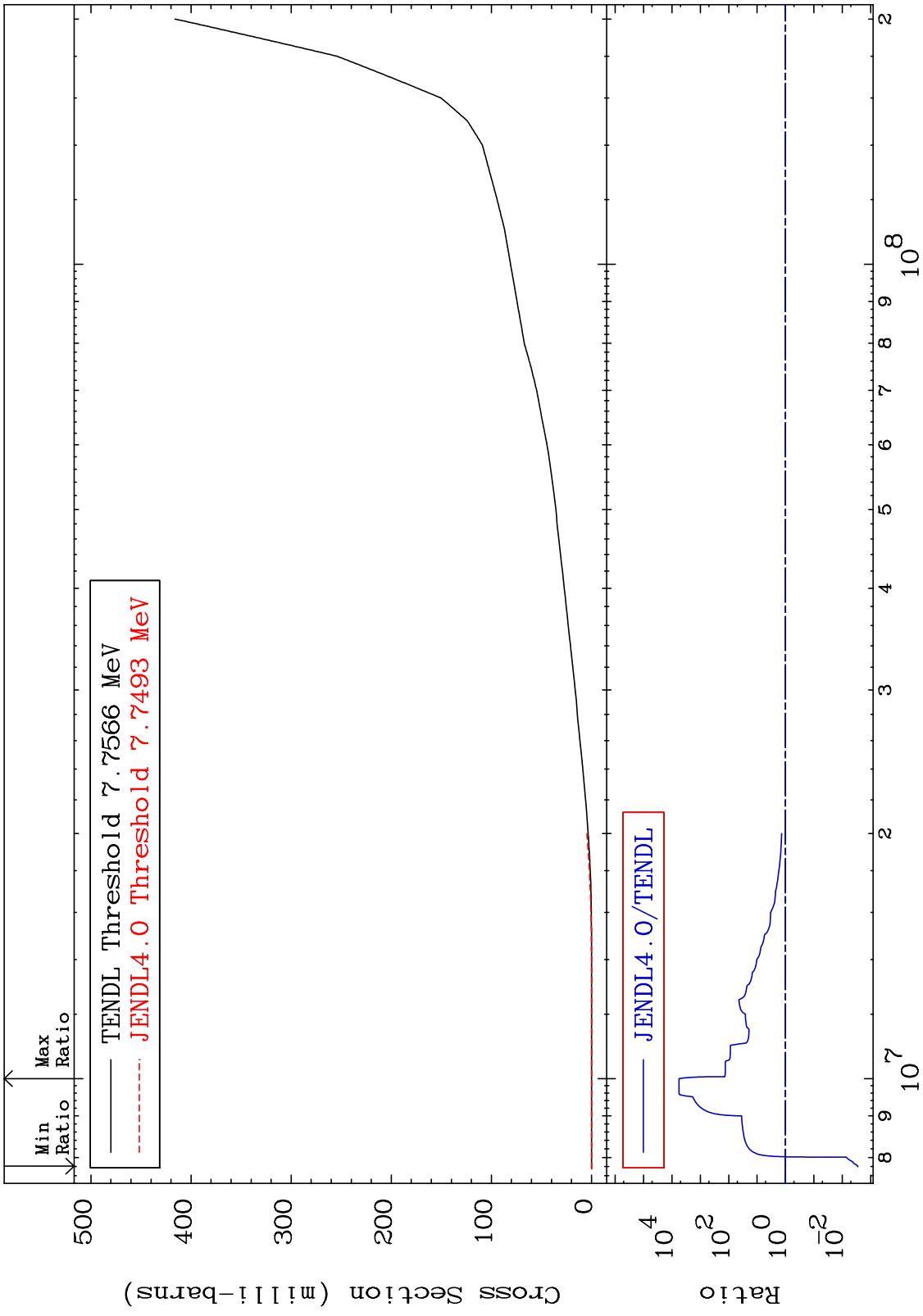
-24.45 To 9999. %



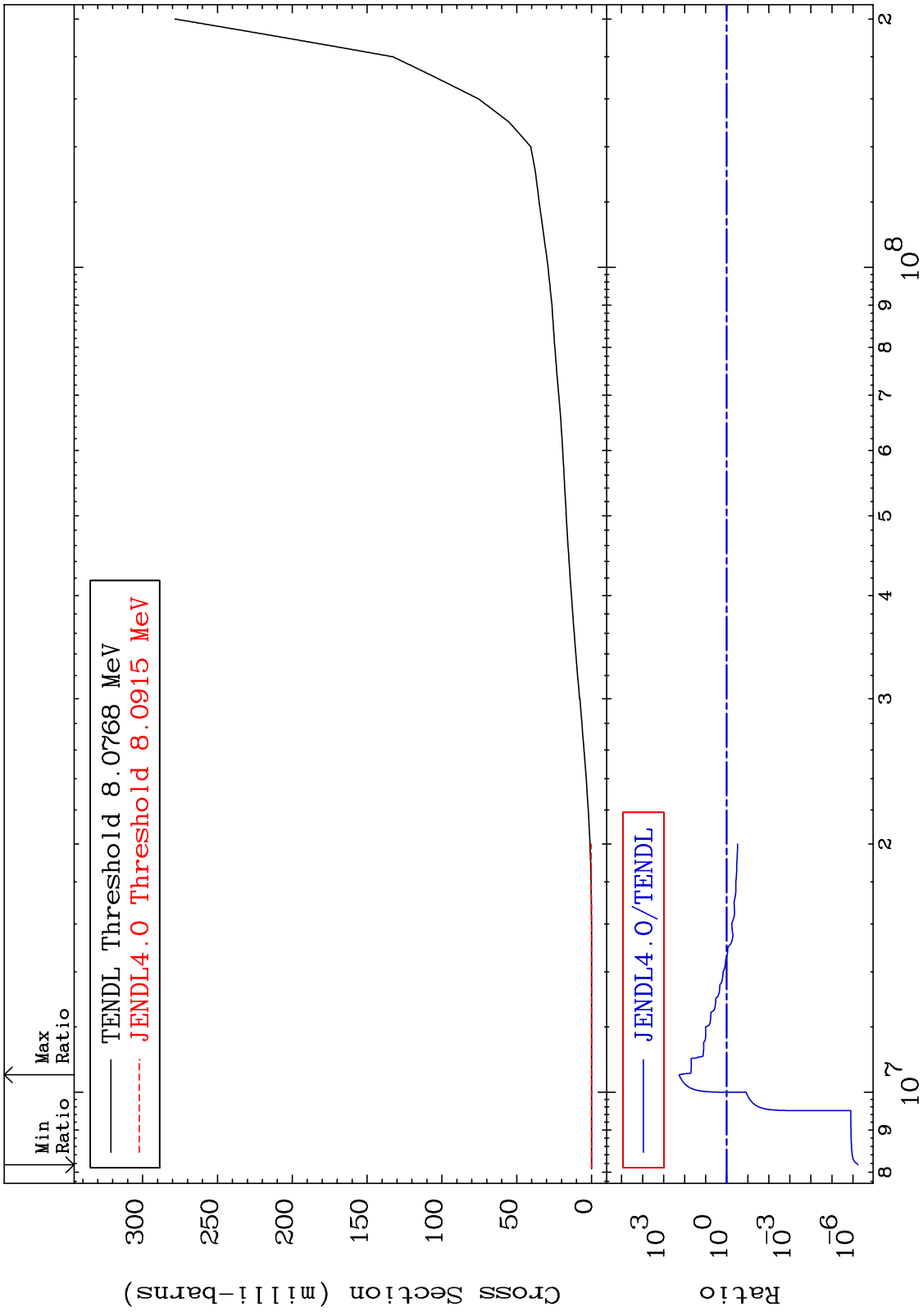
MAT 6049 Hydrogen Production Cross Section 60-Nd-150 To 9999. %
 12.16



MAT 6049 Deuterium Production Cross Section 60-Nd-150 -99.72 To 9999. %



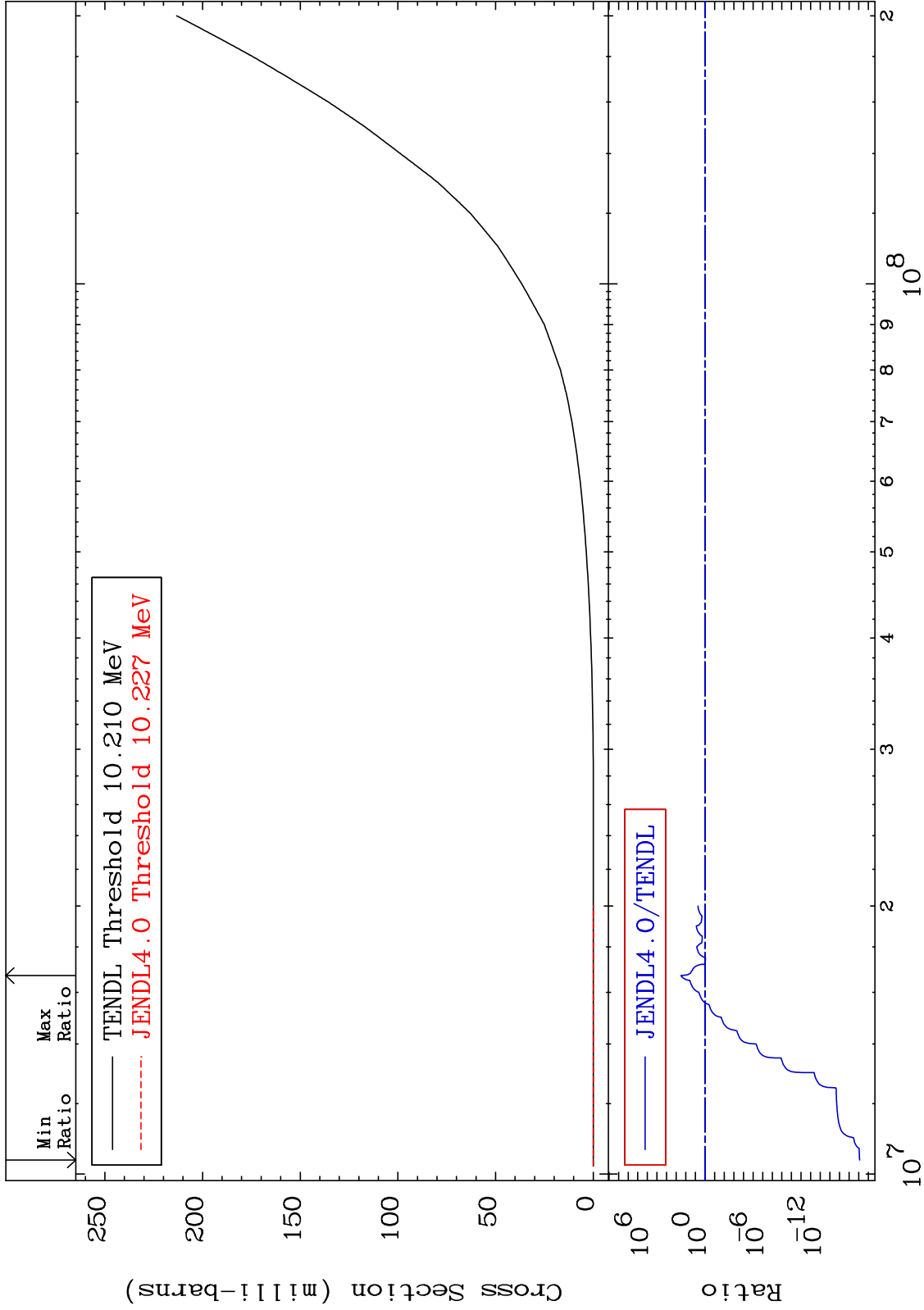
MAT 6049 Tritium Production Cross Section 60-Nd-150 -100.0 To 9999. %



MAT 6049

He-3 Production
Cross Section

60-Nd-150
-100.0 To 9999. %



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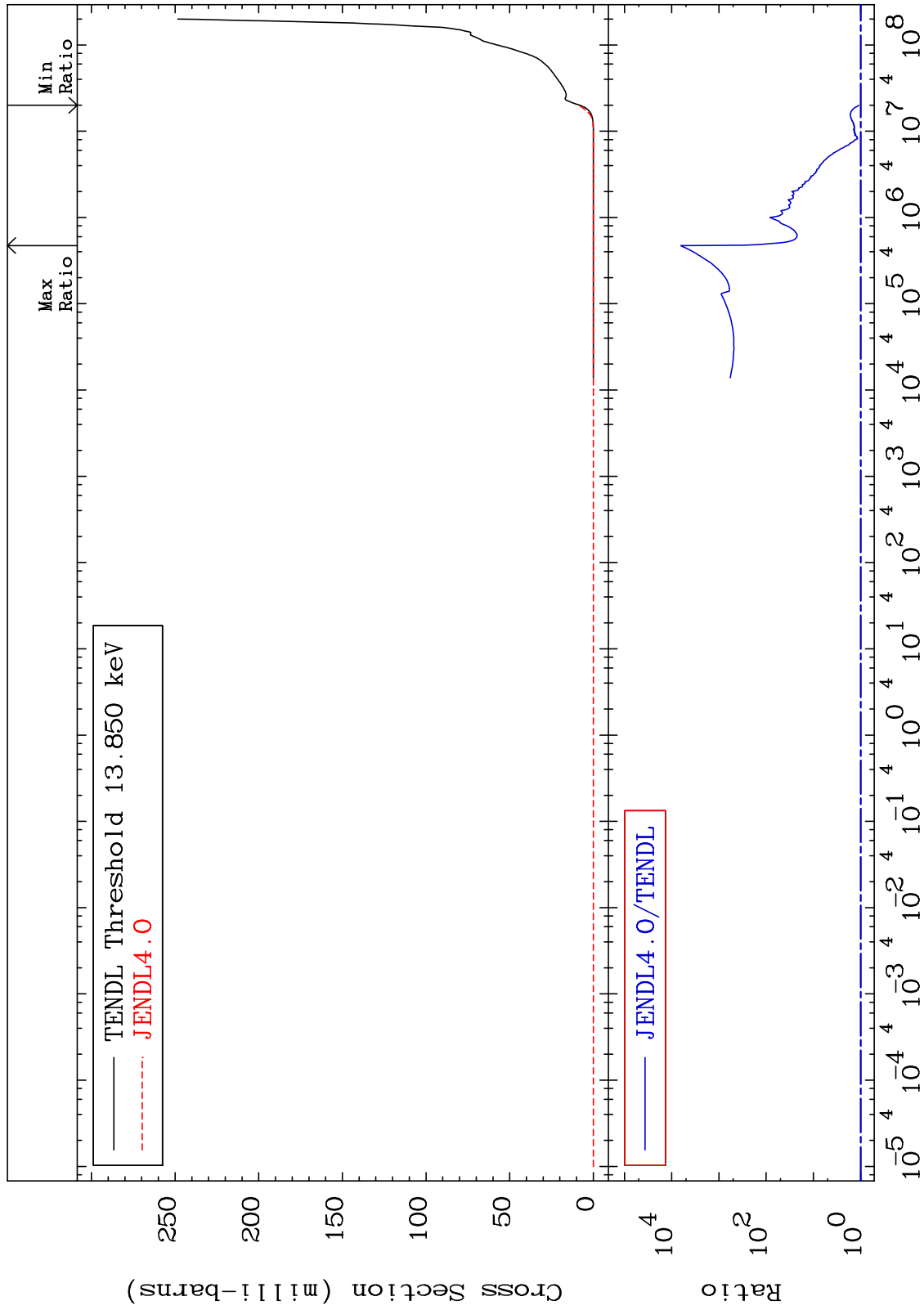
Incident Energy (eV)

60-Nd-150

MAT 6049

He-4 Production
Cross Section

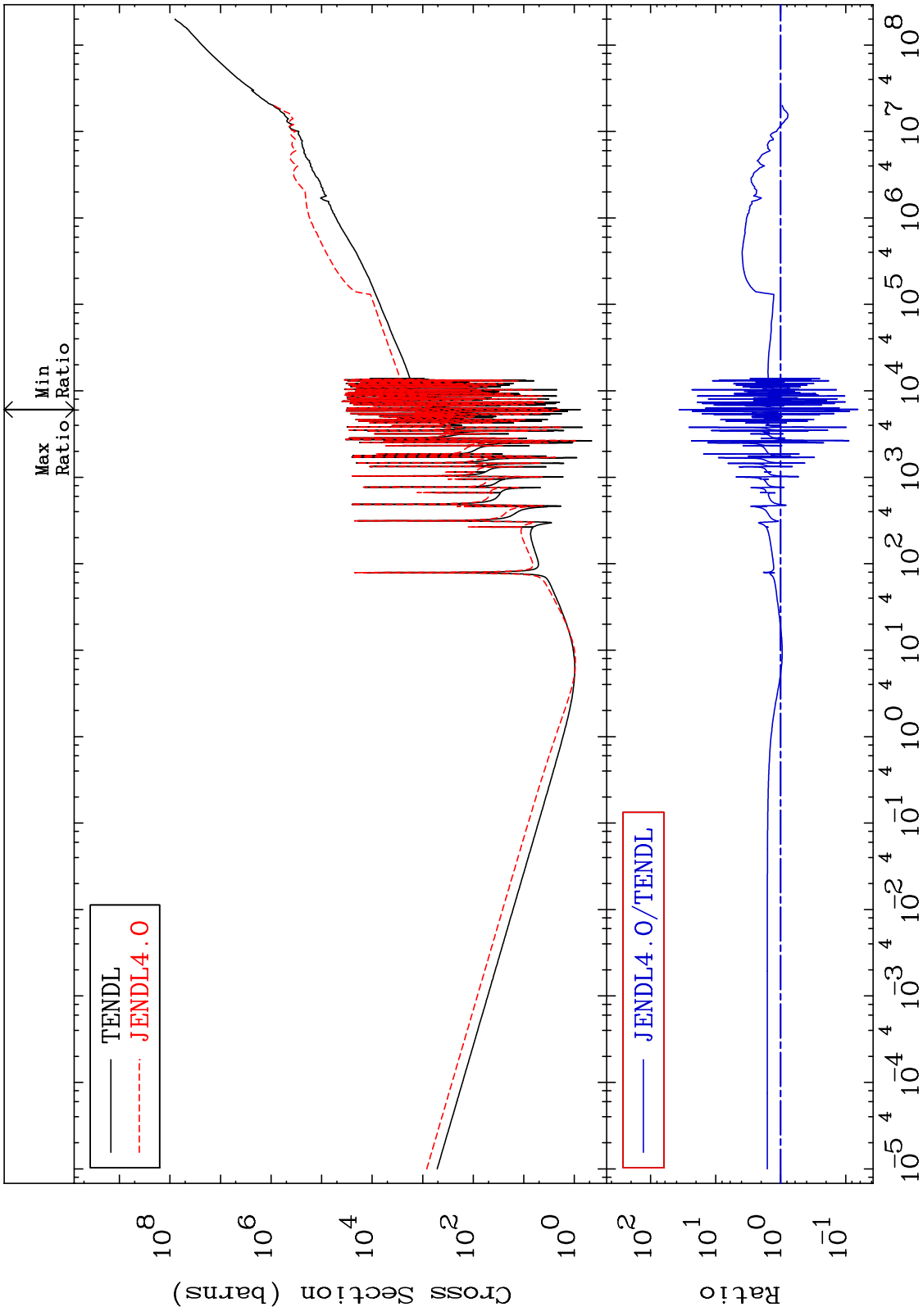
60-Nd-150
To 9999. %
8.099



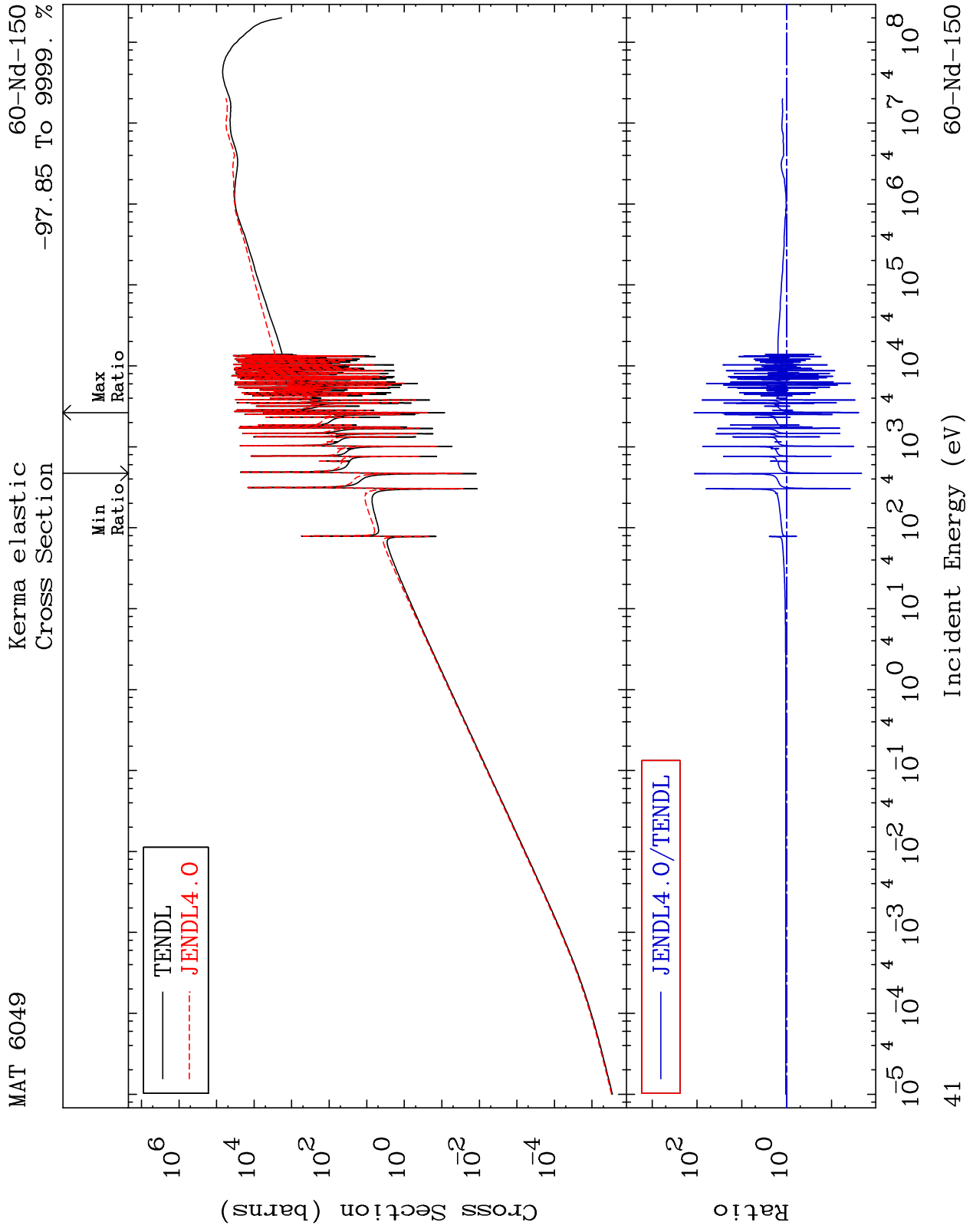
Incident Energy (eV)

60-Nd-150

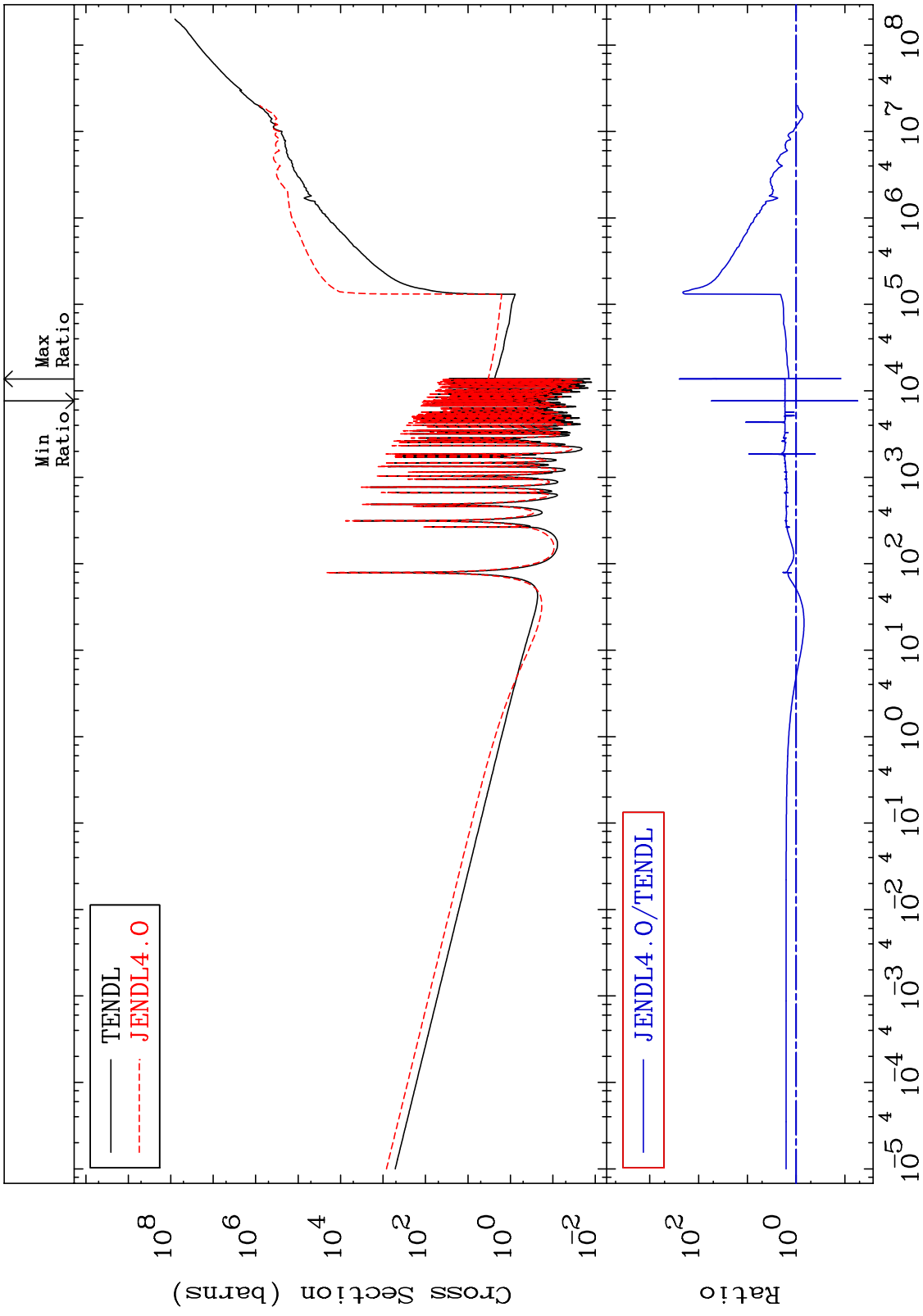
MAT 6049 Kerma total (eV-barns) 60-Nd-150
Cross Section -93.50 To 3559. %



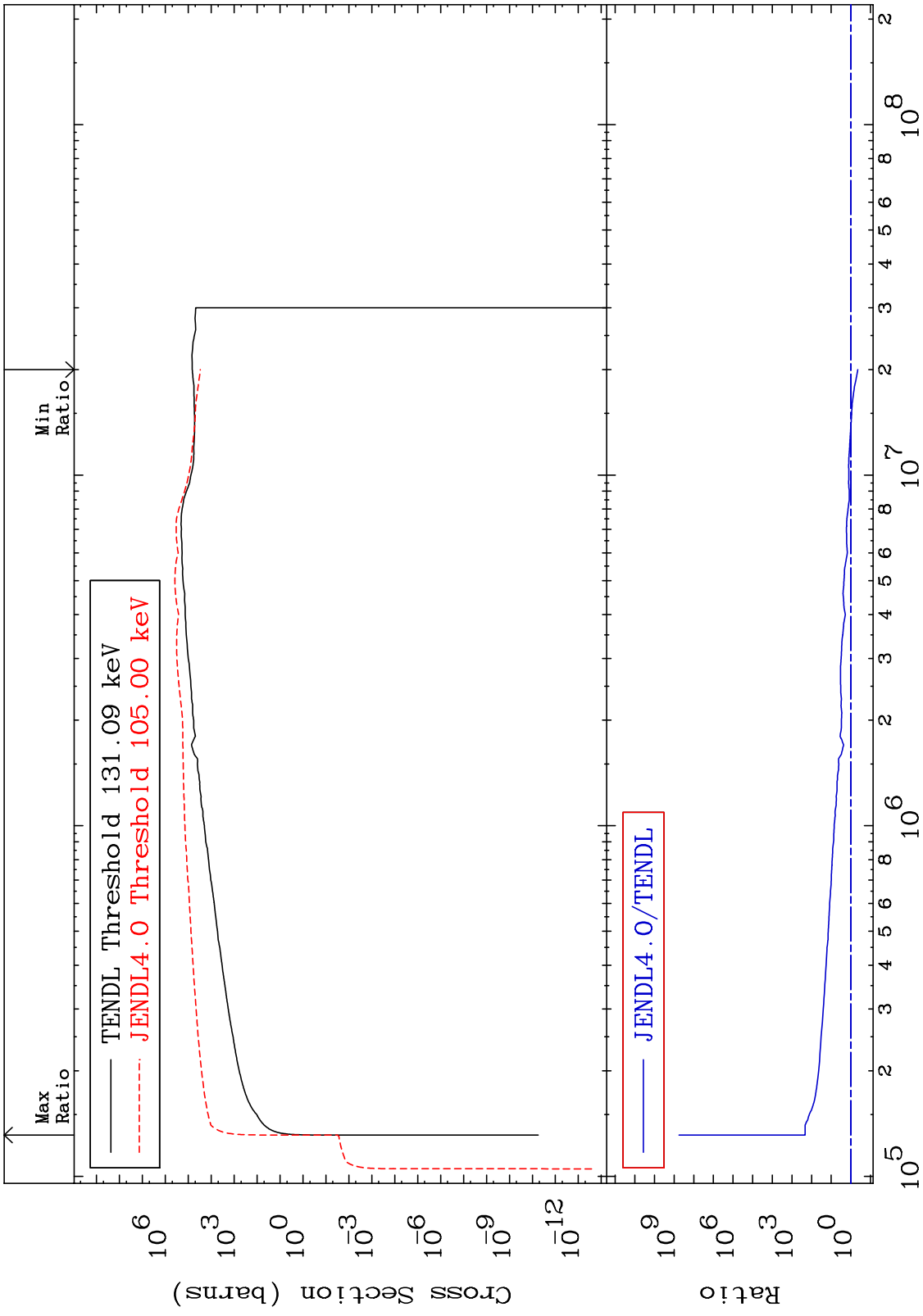
40 Incident Energy (eV) 60-Nd-150



MAT 6049 Kerma non-elastic (all but mt.2) Cross Section 60-Nd-150
 -94.57 To 9999. %



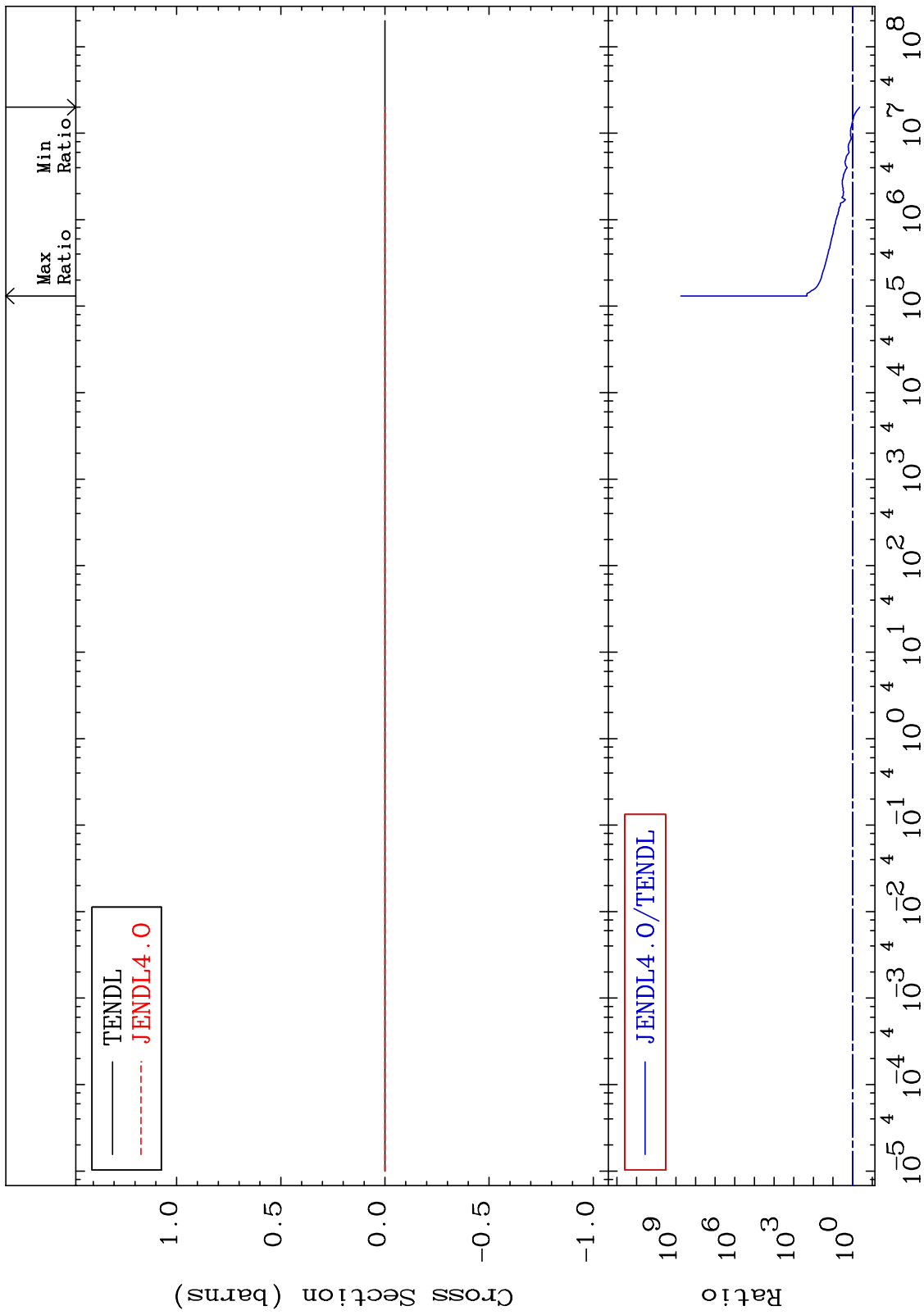
MAT 6049 Kerma inelastic (mt51-91) 60-Nd-150
 Cross Section -55.82 To 9999. %



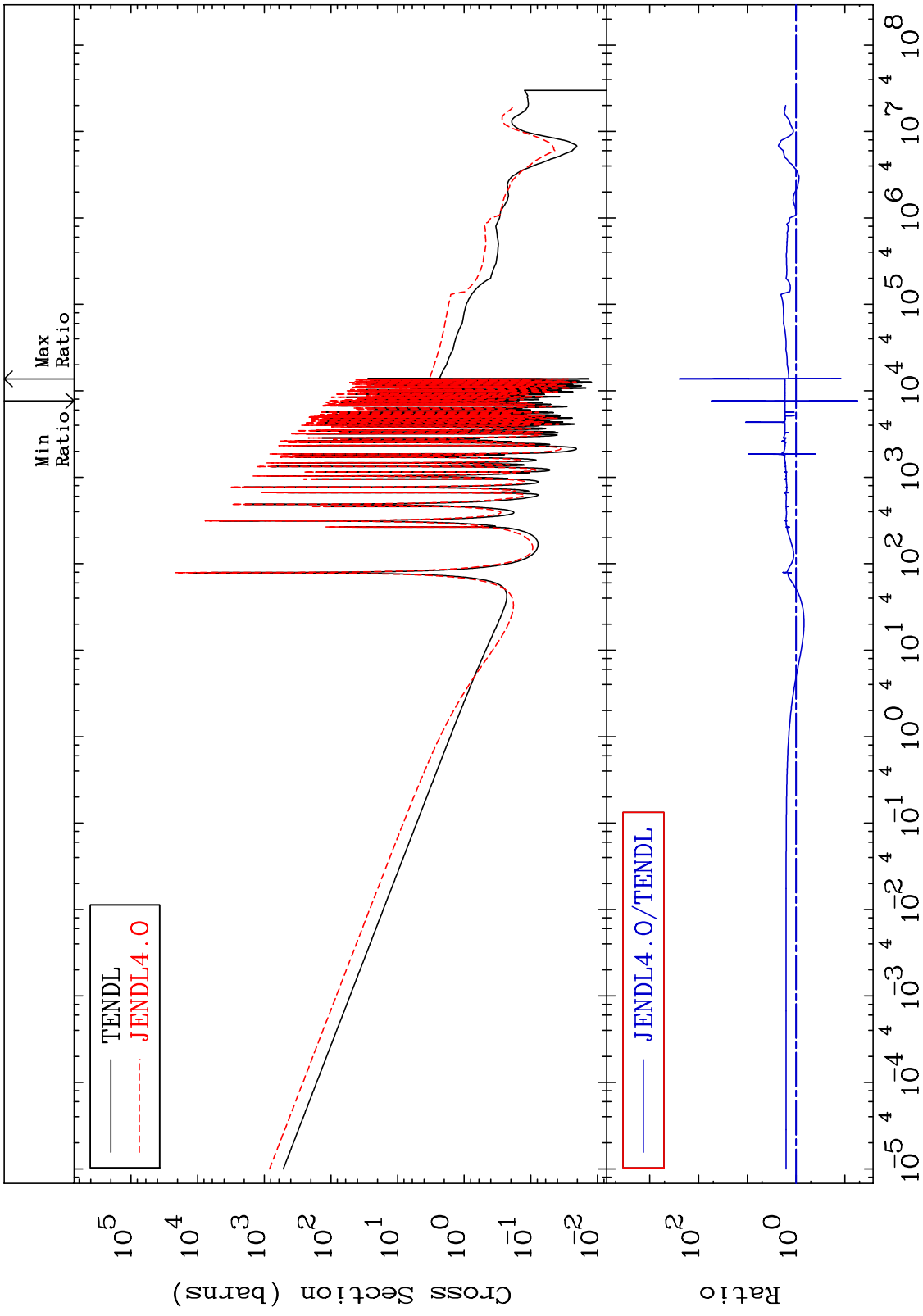
MAT 6049

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

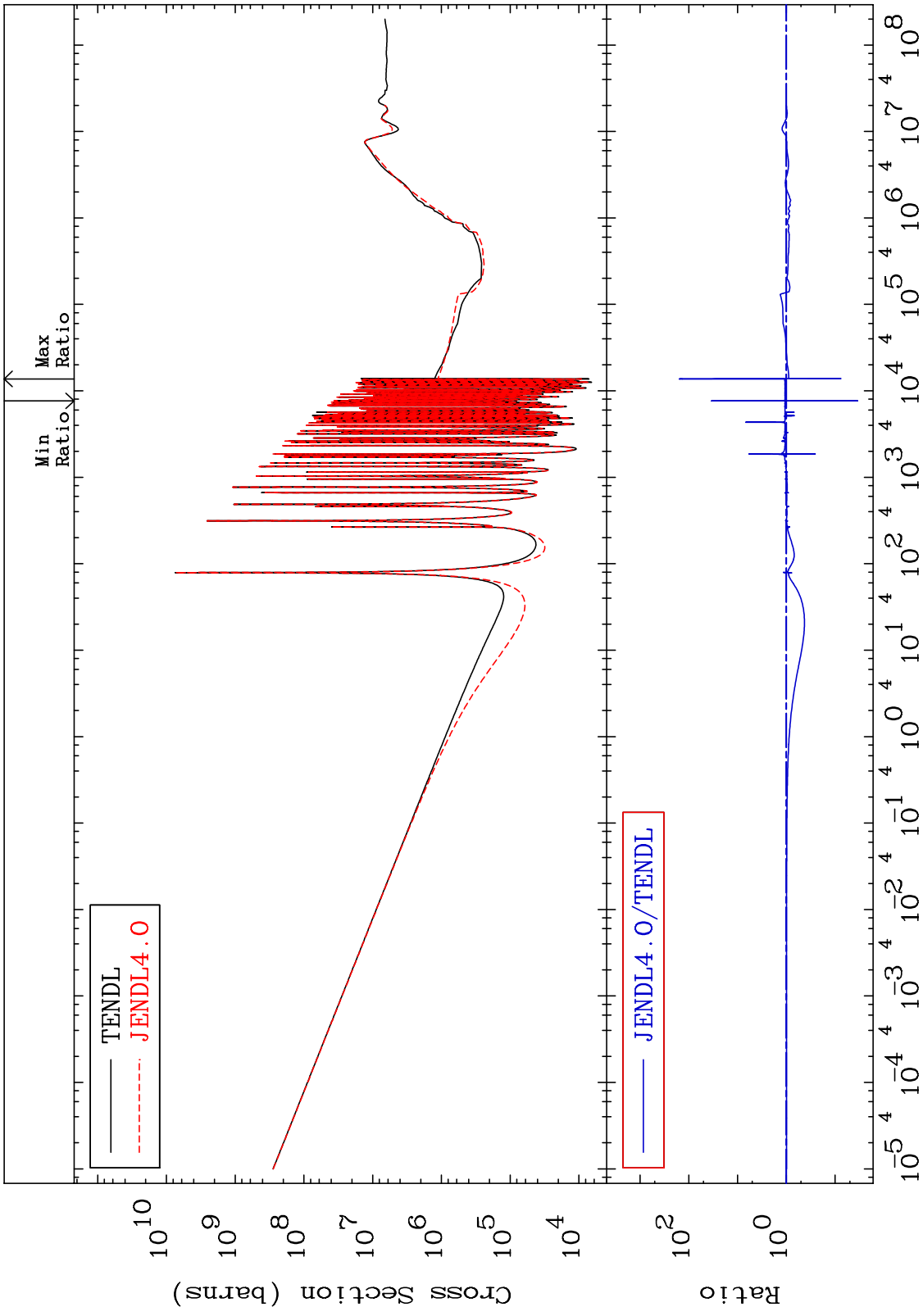
60-Nd-150
-55.82 To 9999. %



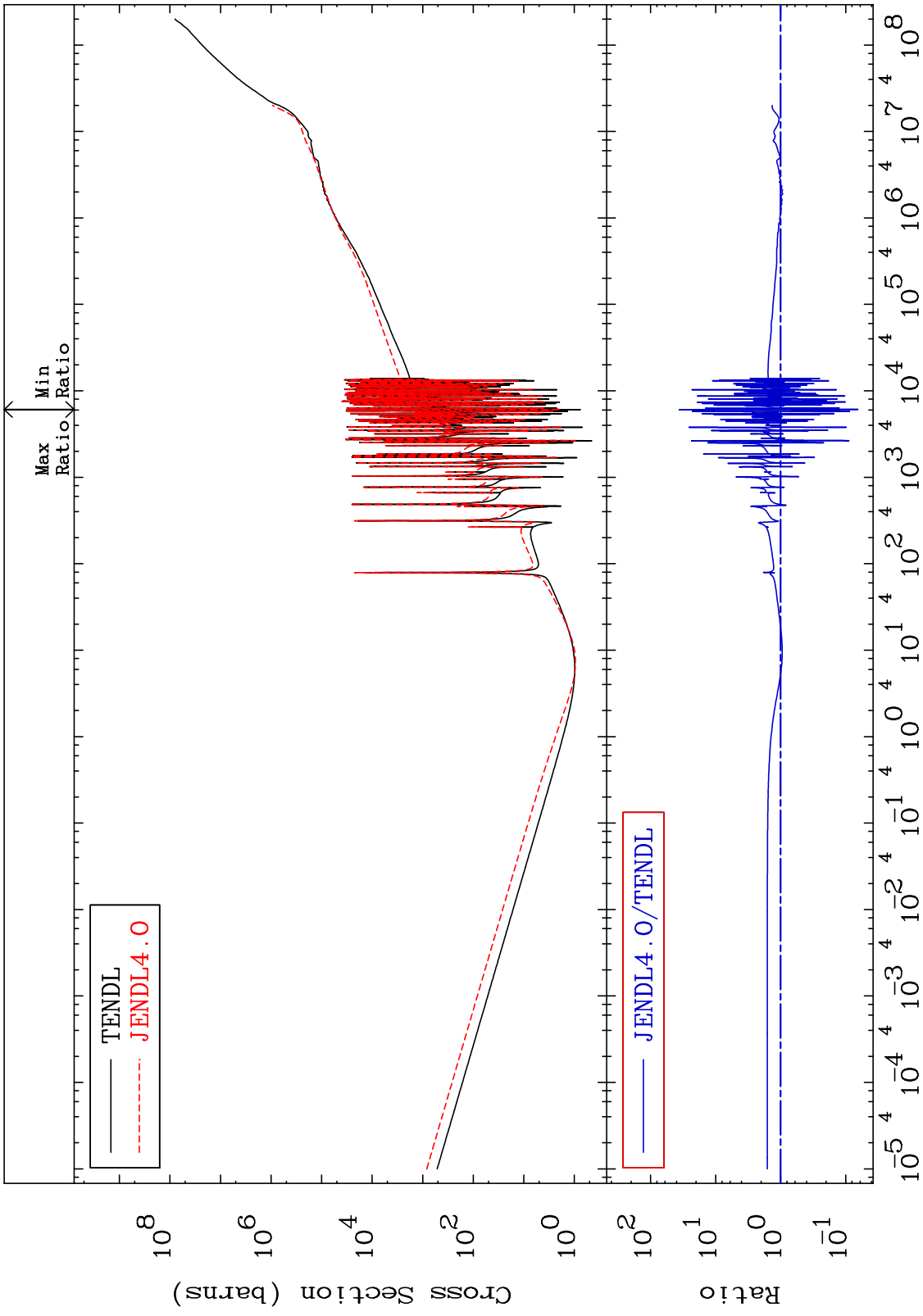
MAT 6049 Kerma capture (mt102) 60-Nd-150
 Cross Section -94.57 To 9999. %



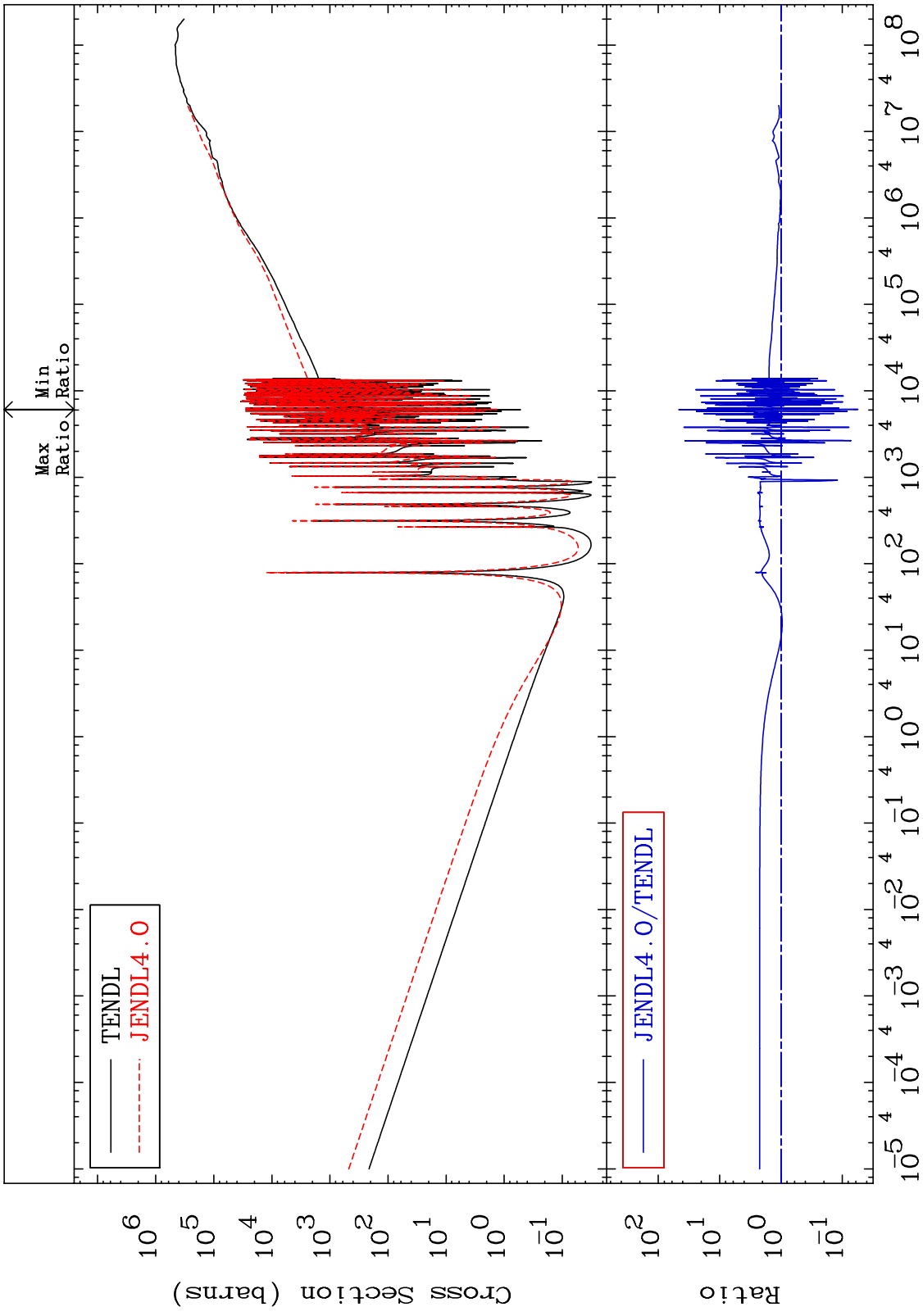
MAT 6049 Total photon (eV-barns) Cross Section 60-Nd-150
 -96.57 To 9999. %



MAT 6049 Total kinematic kerma (high limit) 60-Nd-150
 Cross Section -93.50 To 3559. %



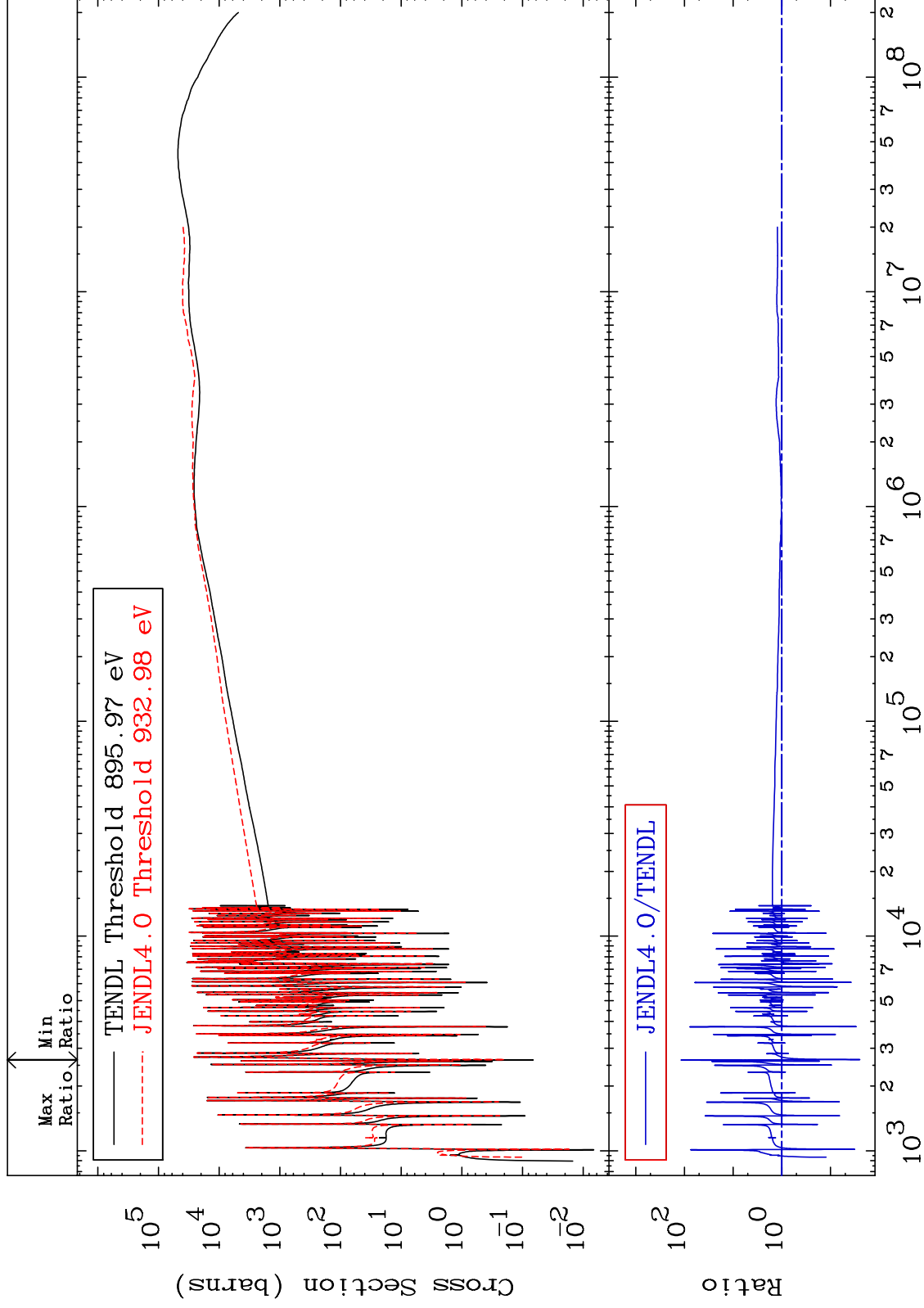
MAT 6049 Dpa total (eV-barns) 60-Nd-150
 Cross Section -94.42 To 4488. %



MAT 6049

Dpa elastic (mt2)
Cross Section

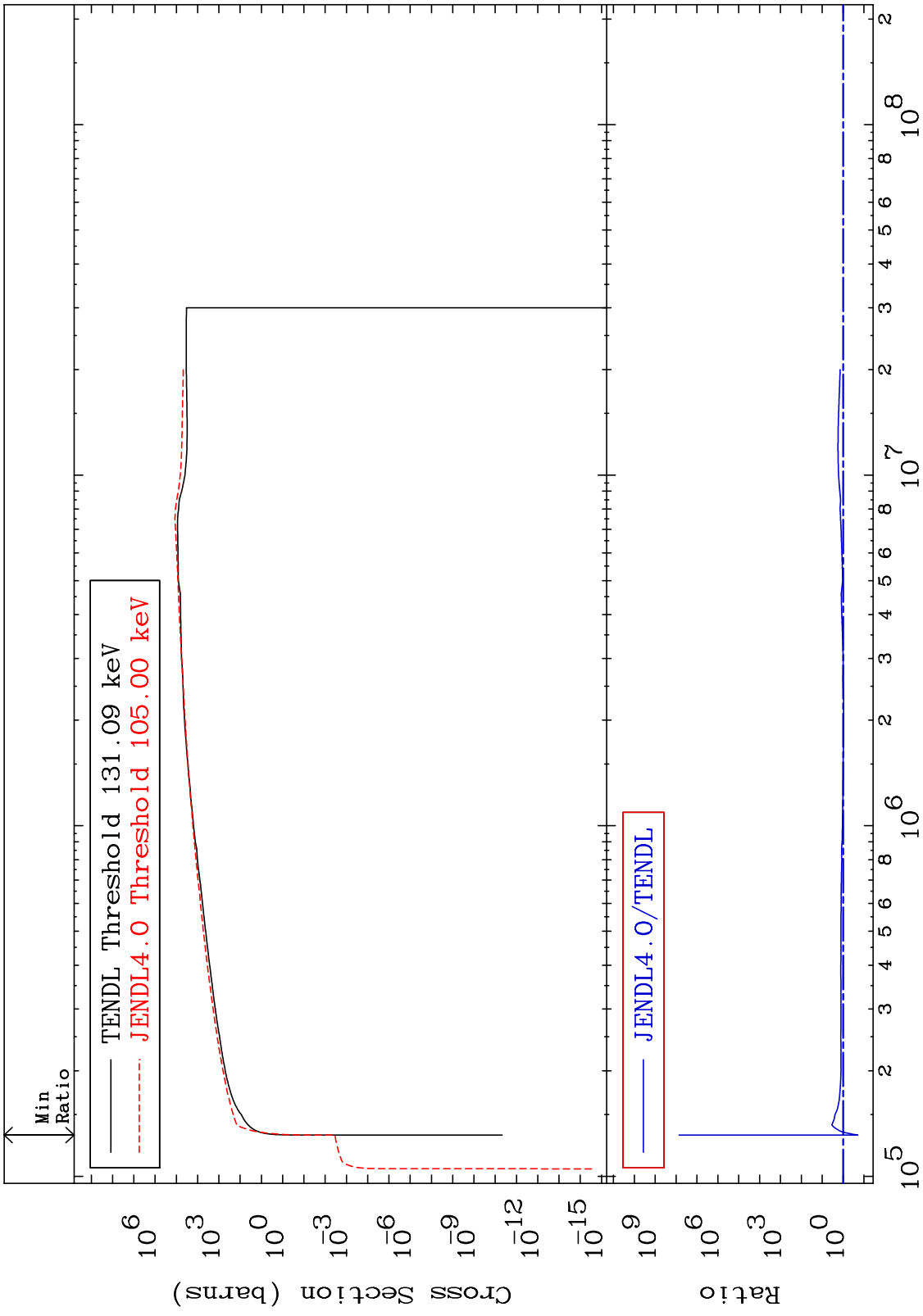
60-Nd-150
-97.49 To 9999. %



49

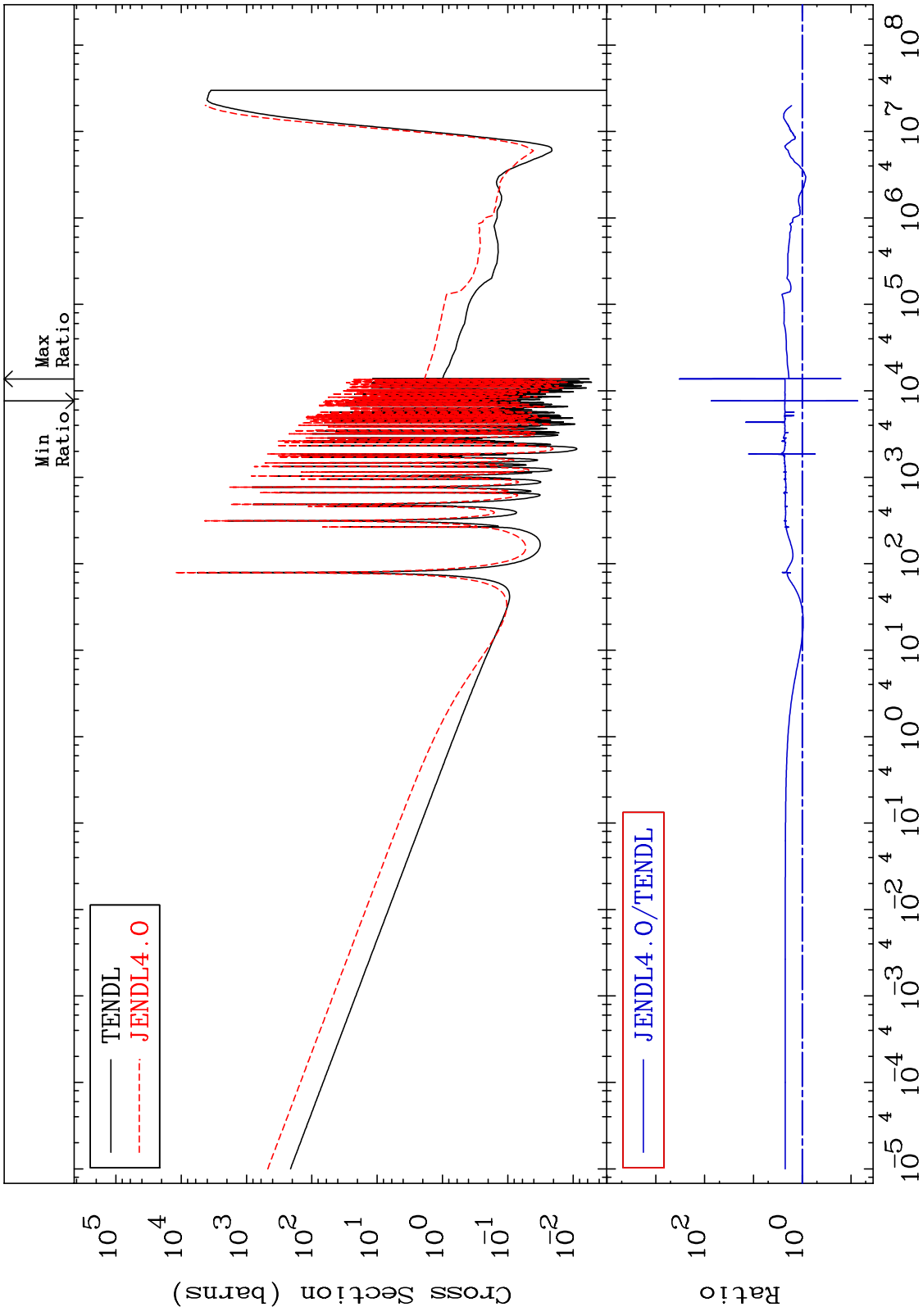
60-Nd-150

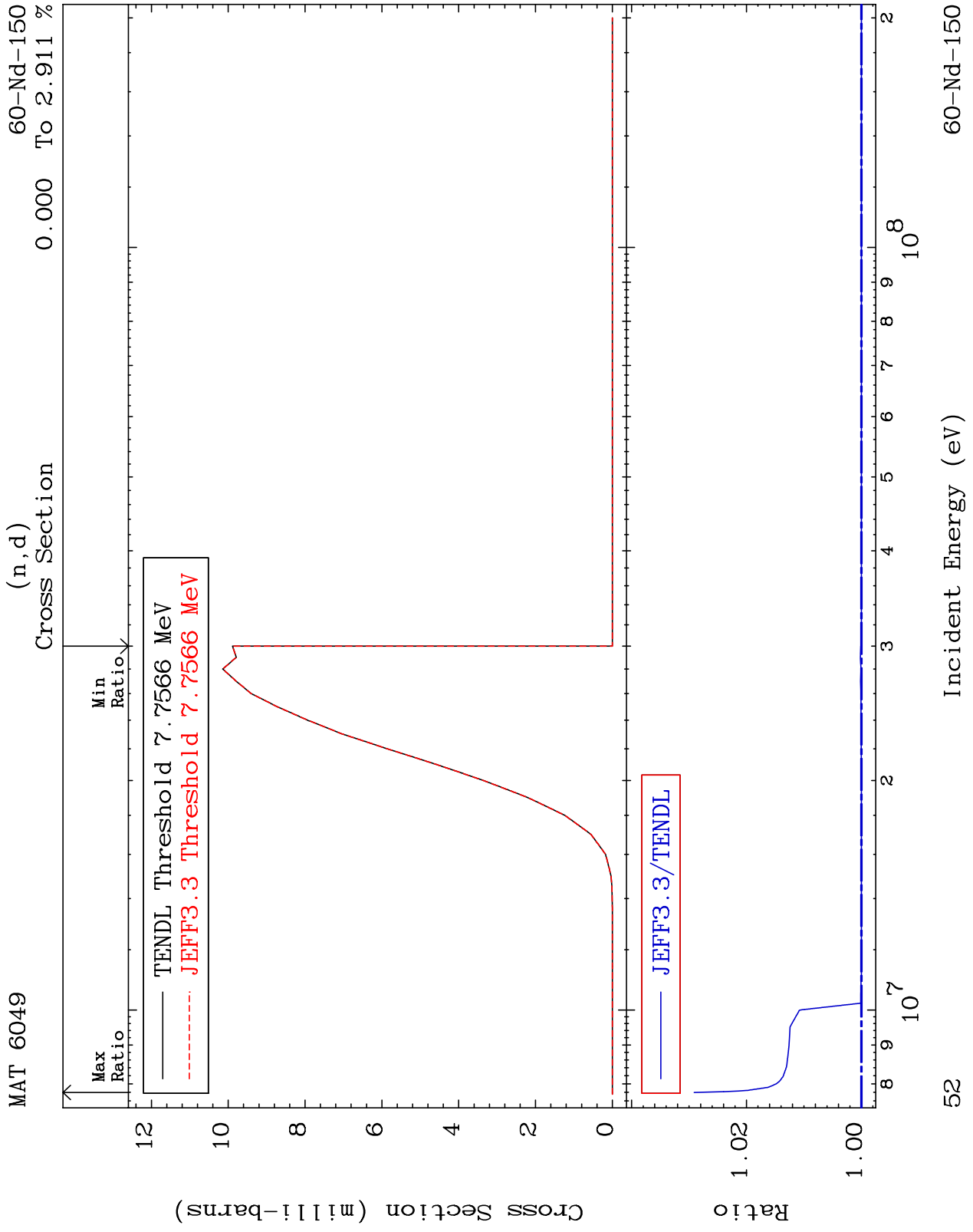
MAT 6049 Dpa inelastic (mt51-91) 60-Nd-150
Cross Section -80.33 To 9999. %

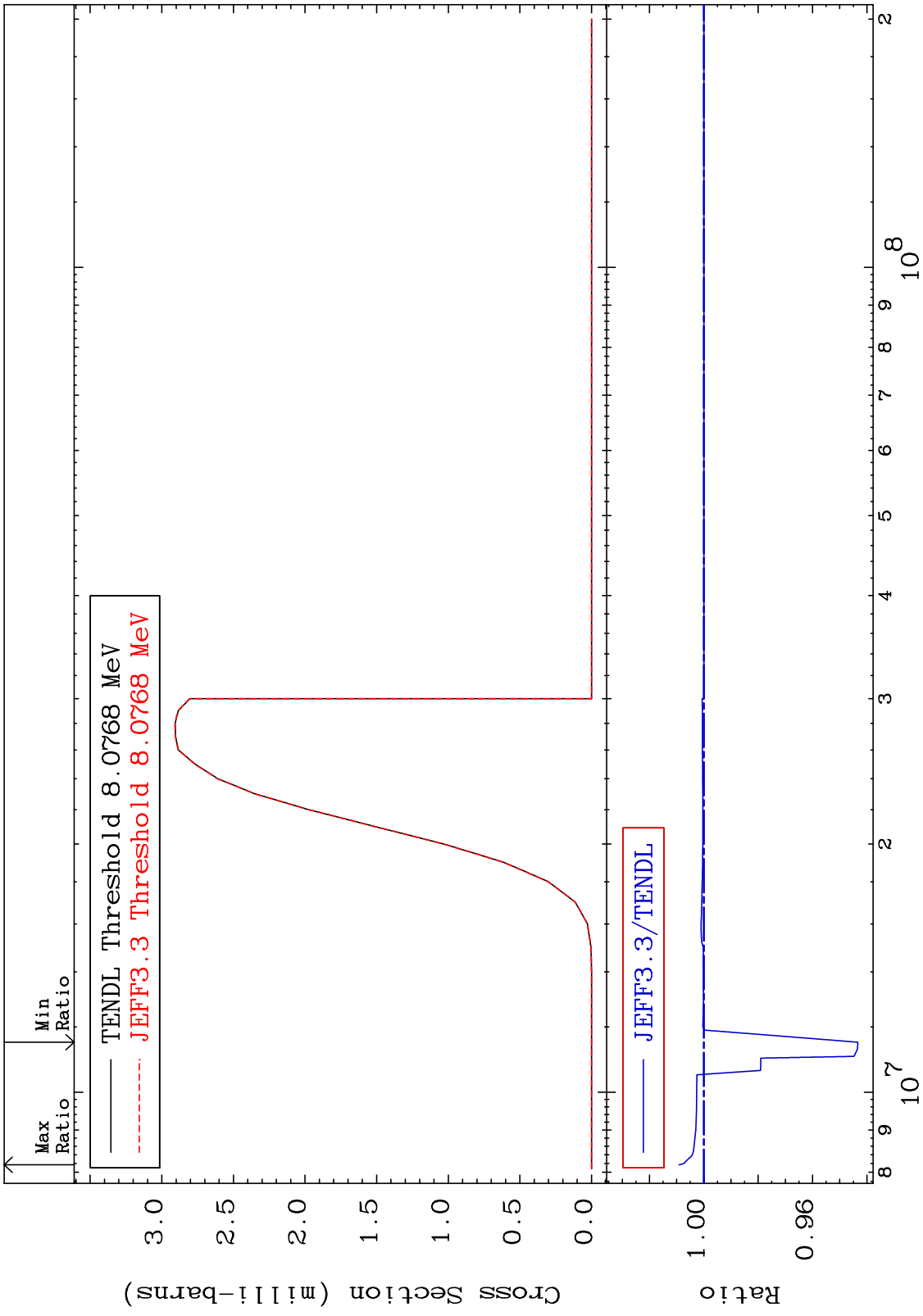


50 60-Nd-150

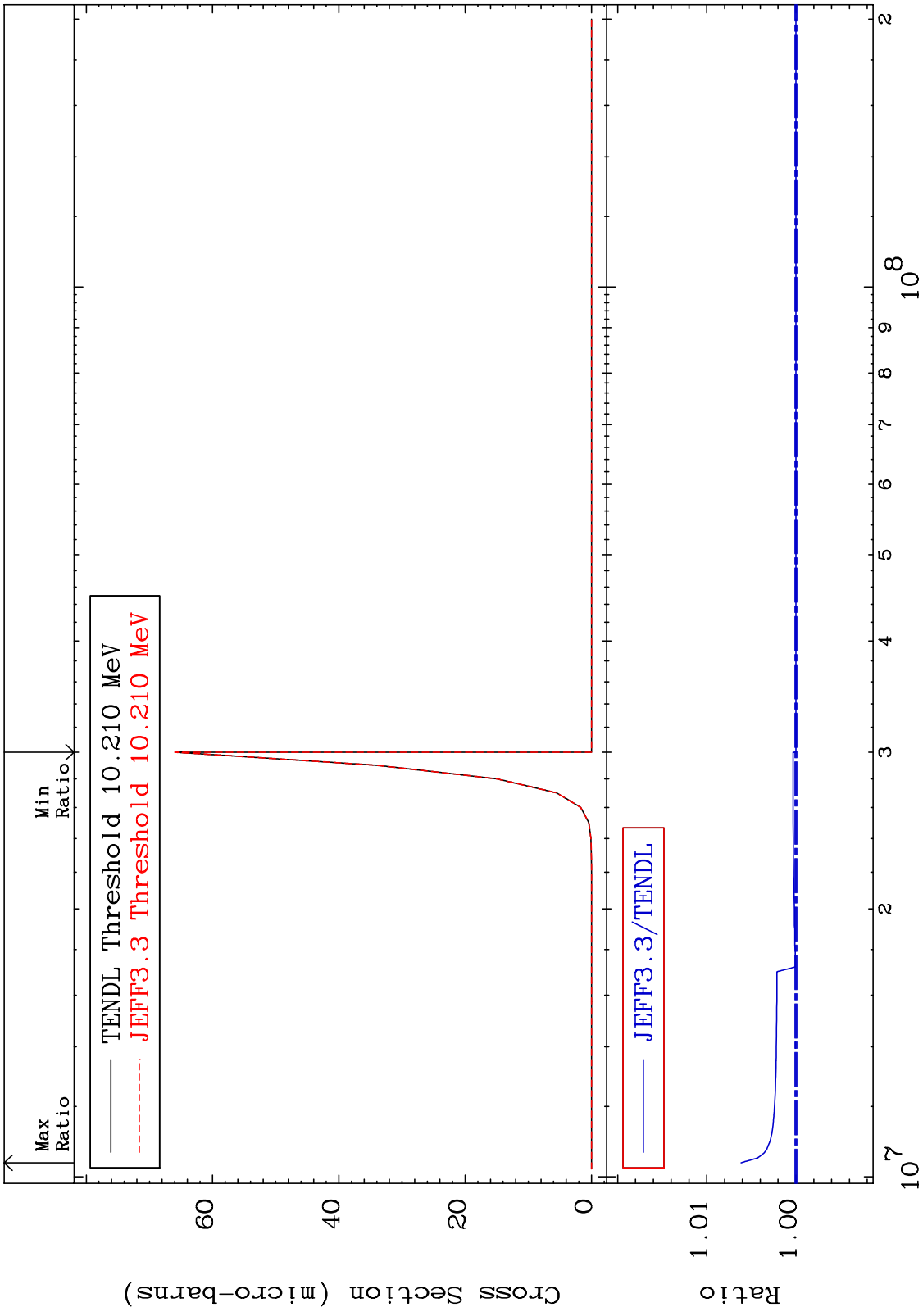
MAT 6049 Dpa disappearance (mt102 -120) 60-Nd-150
 Cross Section -92.75 To 9999. %







MAT 6049 (n, He-3) Cross Section 60-Nd-150 To 0.617 %



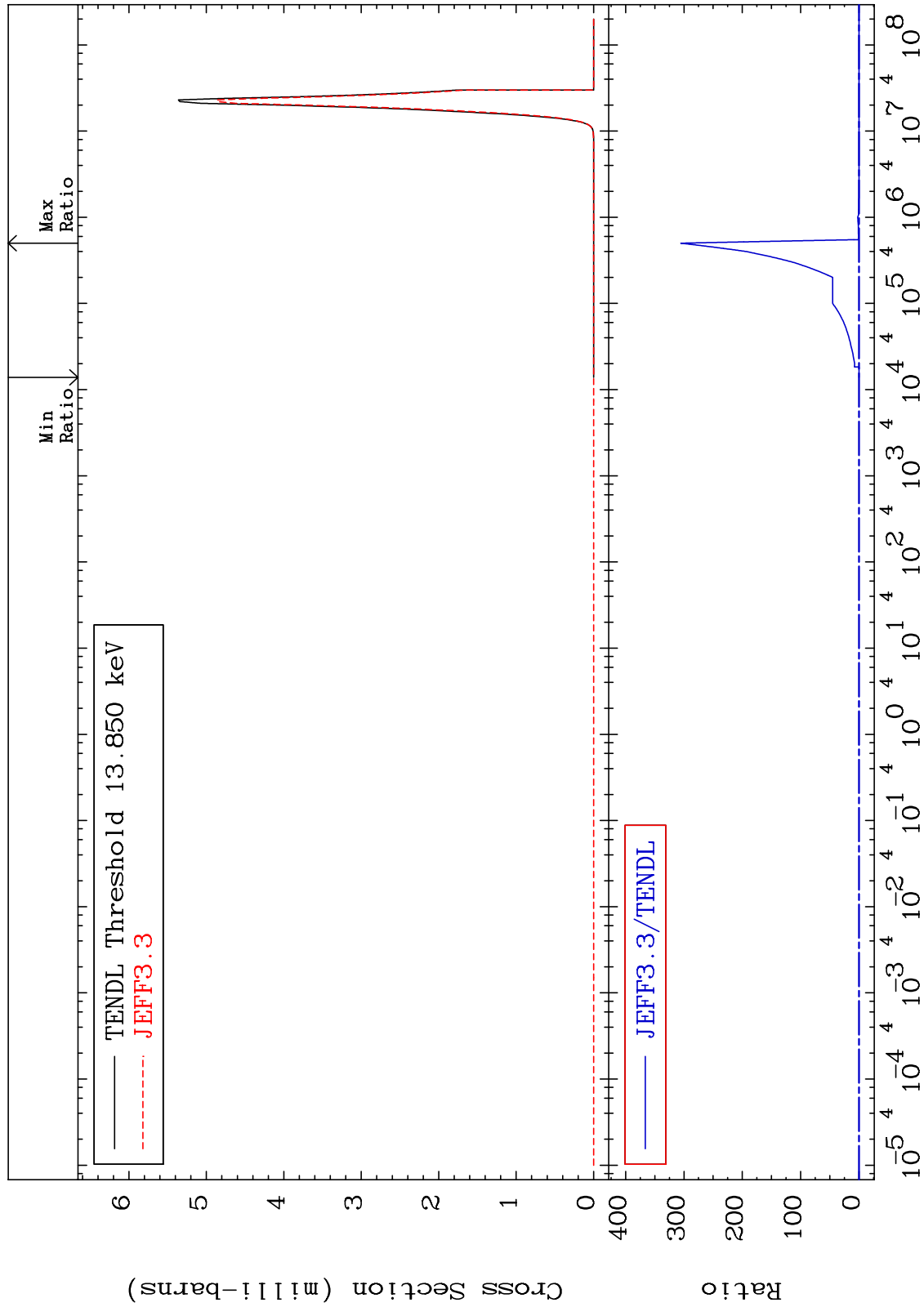
MAT 6049

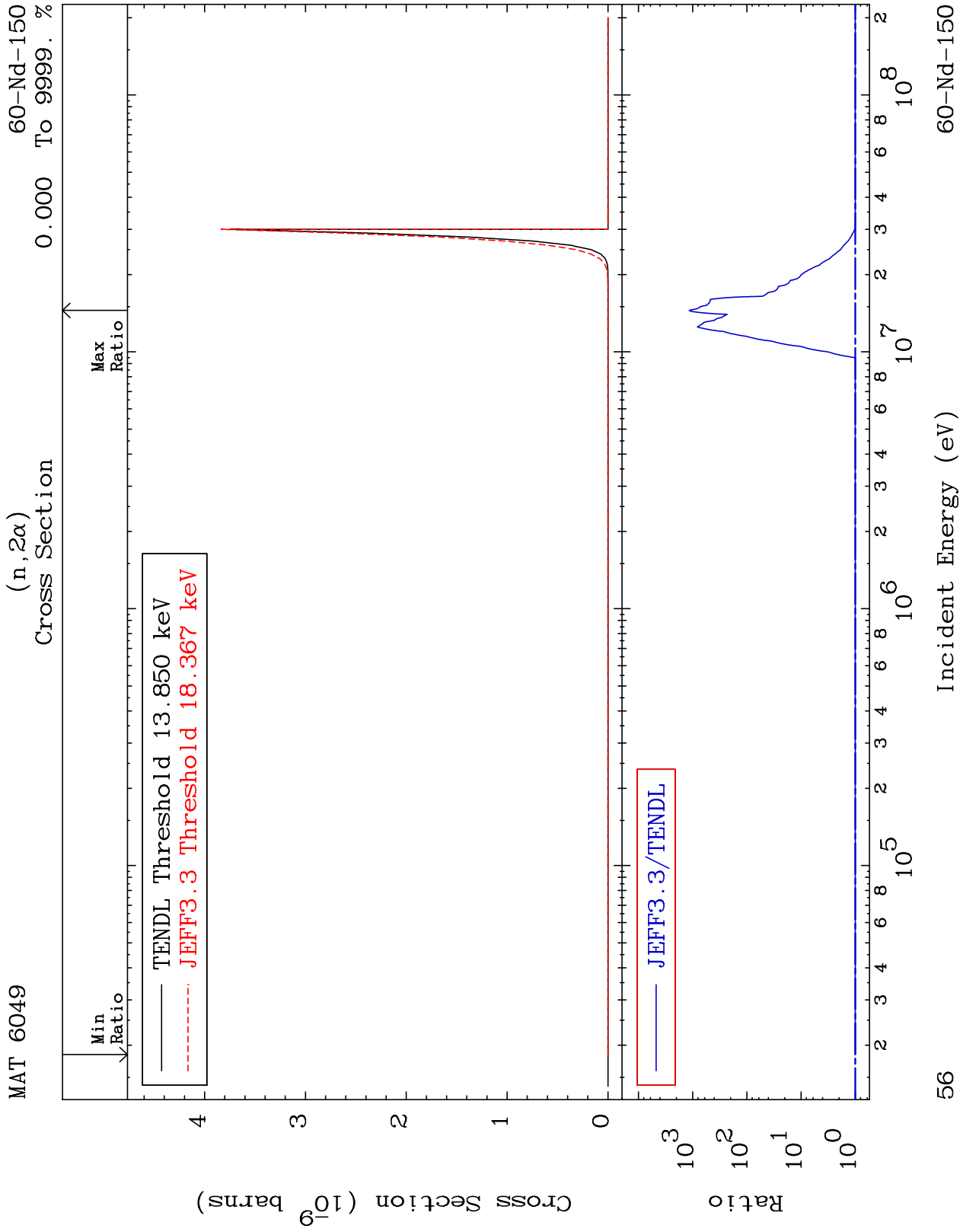
(n, α)

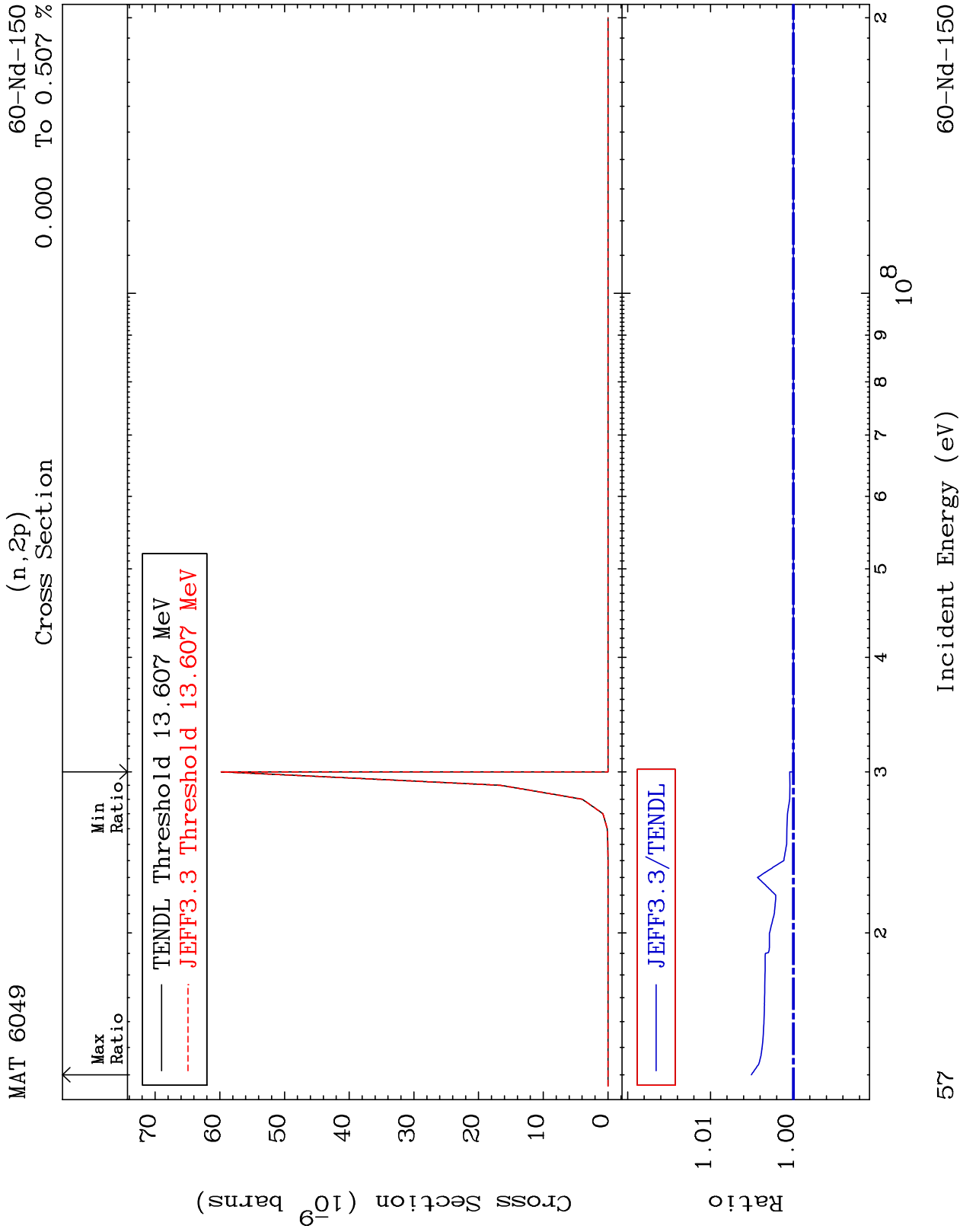
60-Nd-150

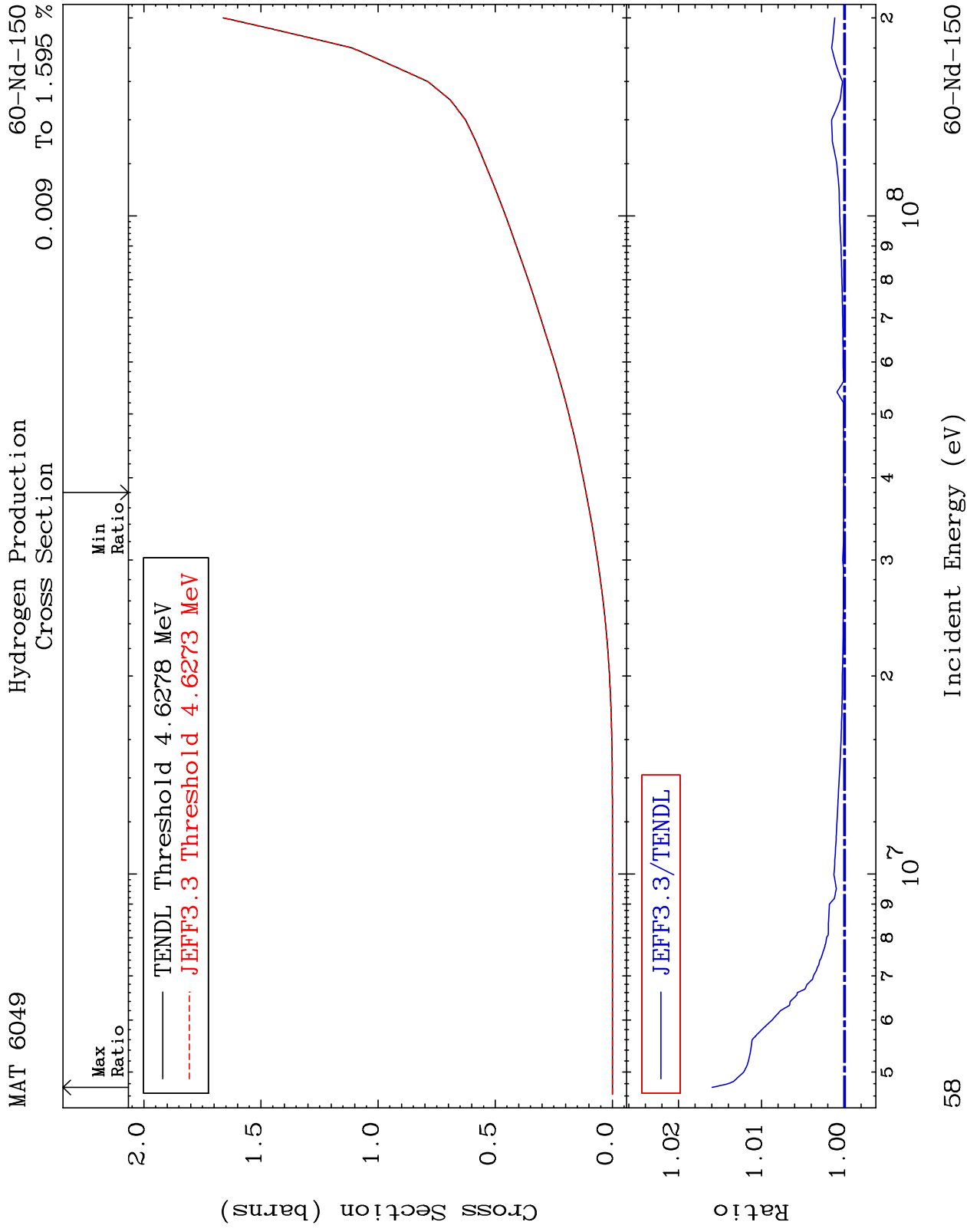
Cross Section

-100.0 To 9999. %

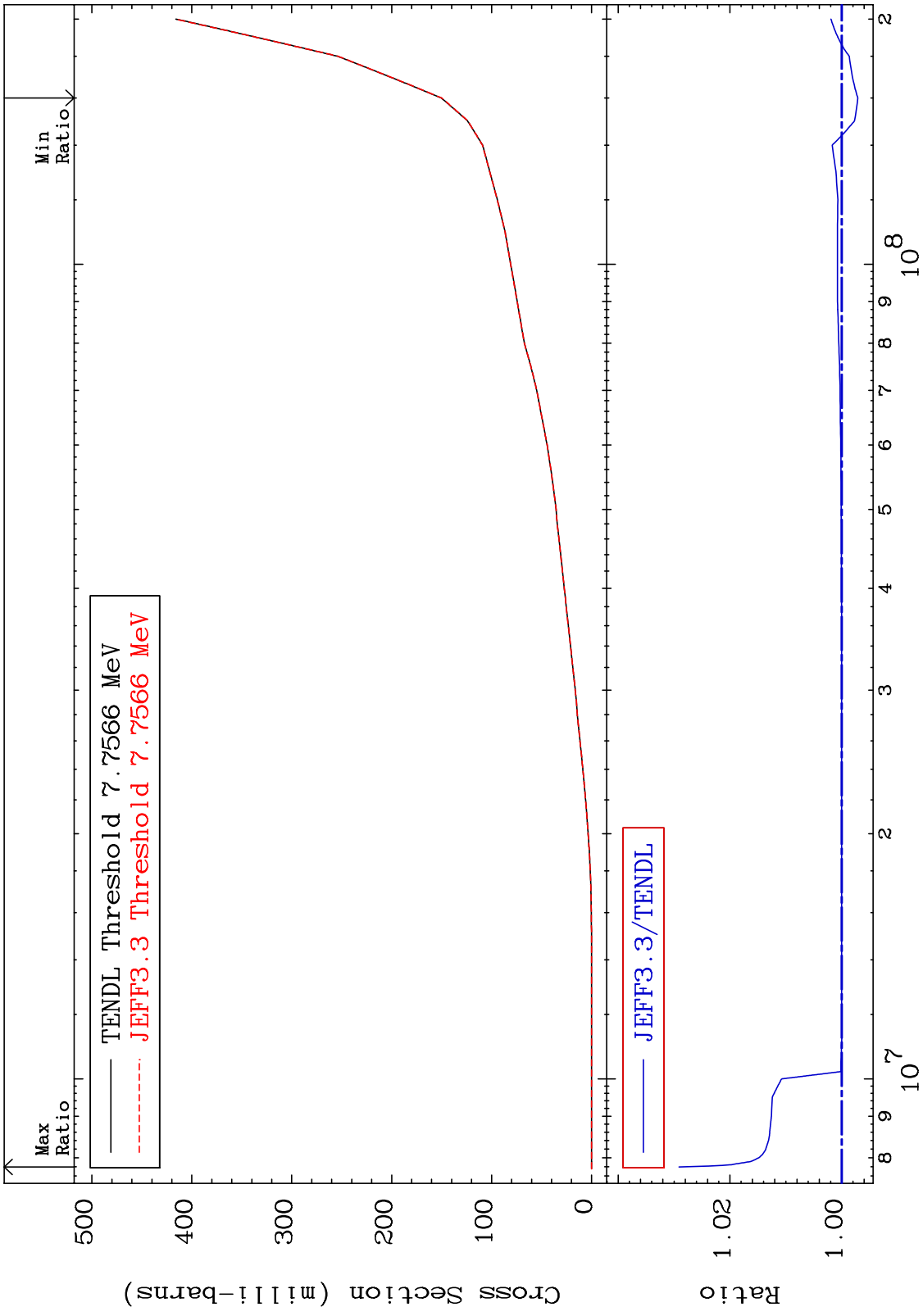








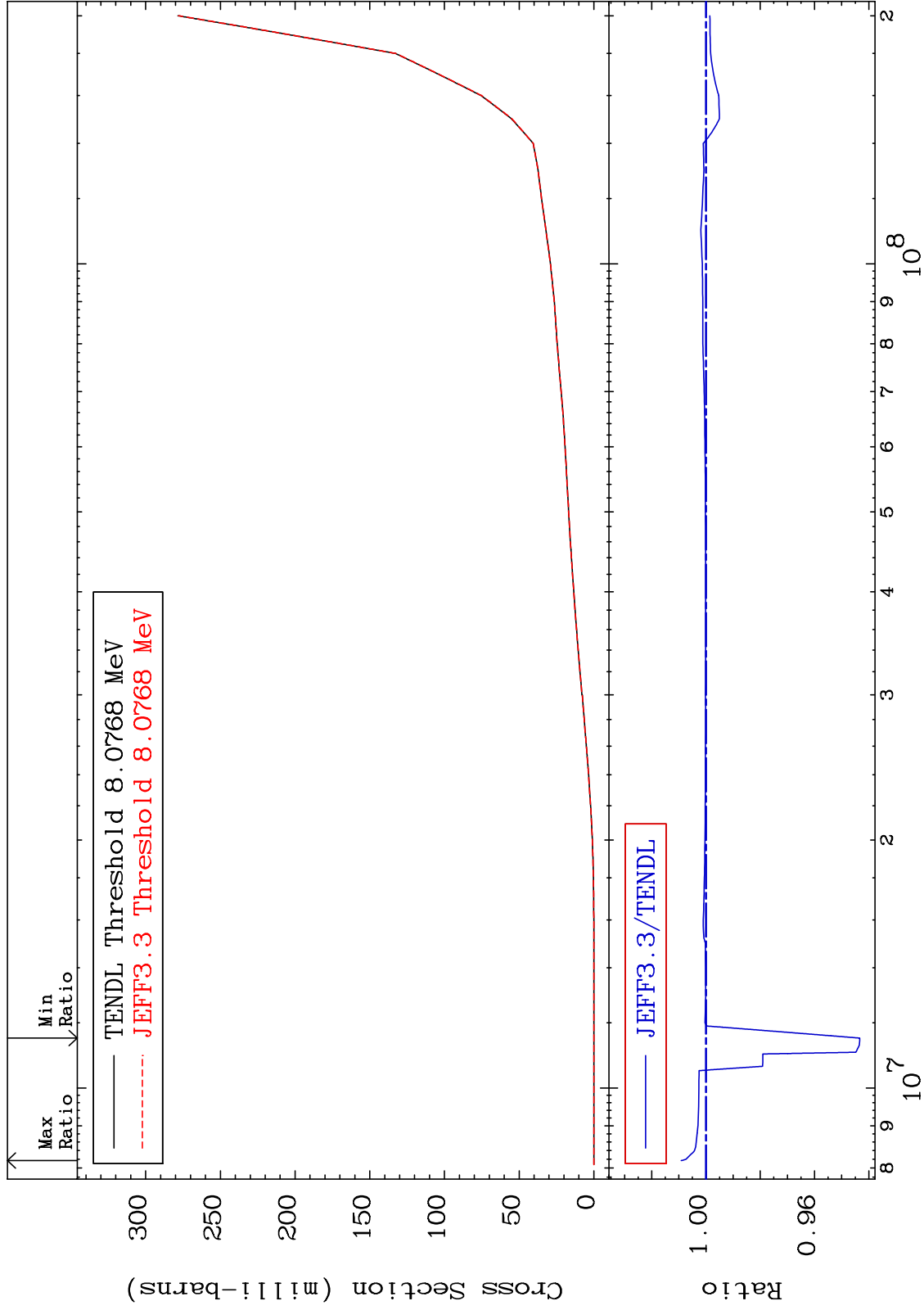
MAT 6049 Deuterium Production Cross Section 60-Nd-150 -0.288 To 2.911 %



MAT 6049

Tritium Production
Cross Section

60-Nd-150
-5.667 To 0.912 %

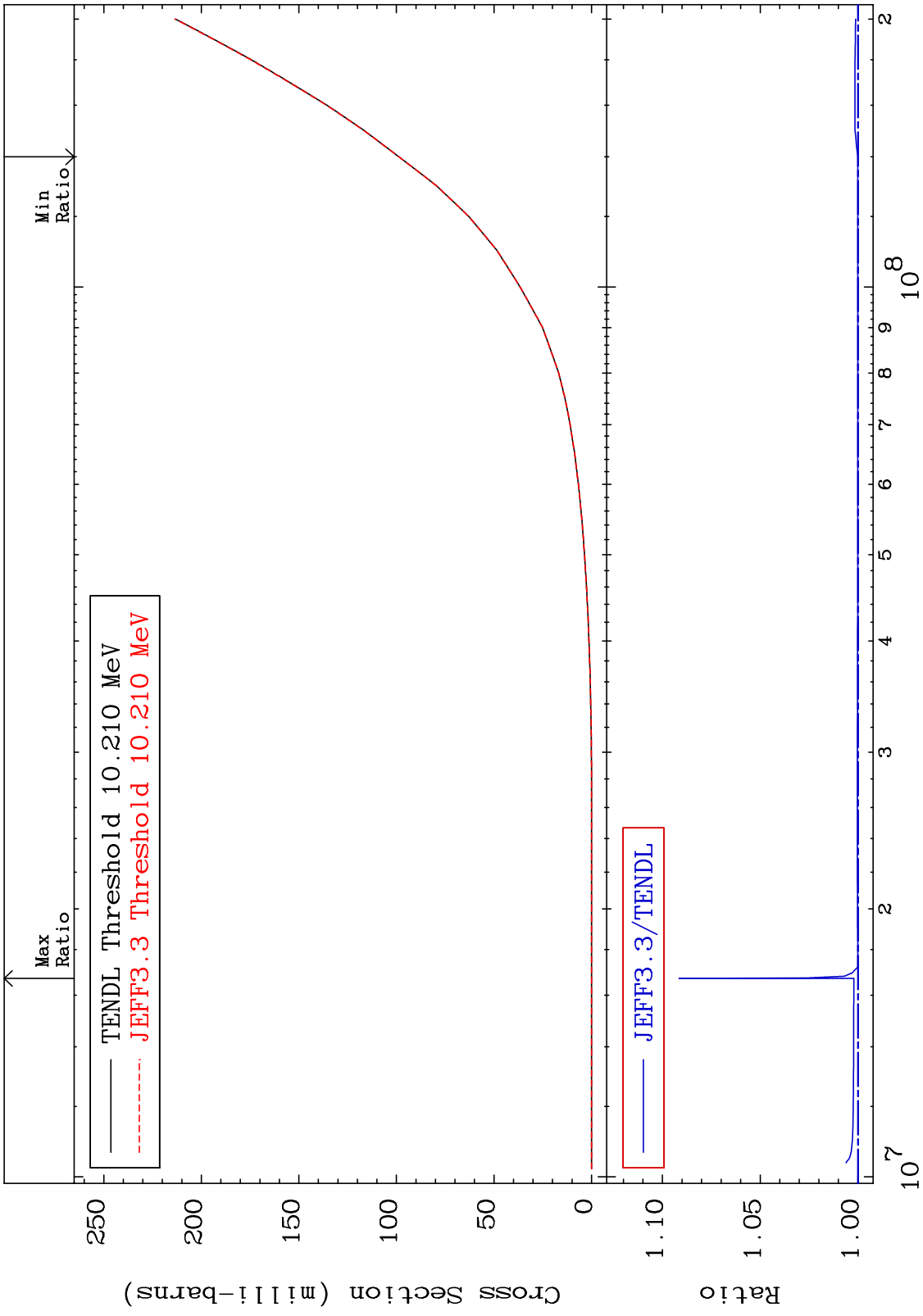


60

Incident Energy (eV)

60-Nd-150

MAT 6049 He-3 Production Cross Section 60-Nd-150 To 9.151 %

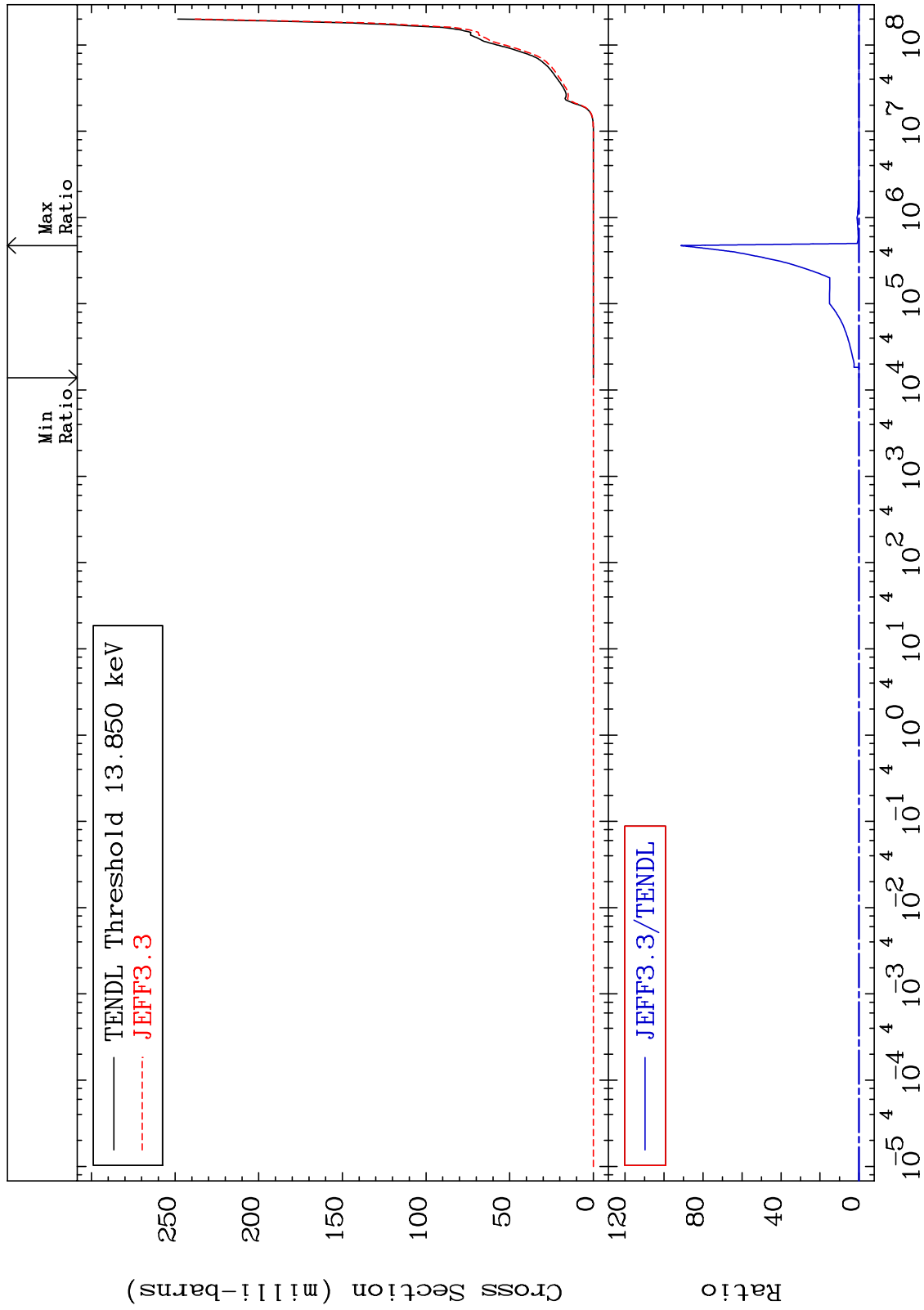


61 Incident Energy (eV) 60-Nd-150

MAT 6049

He-4 Production
Cross Section

60-Nd-150
-100.0 To 9999. %

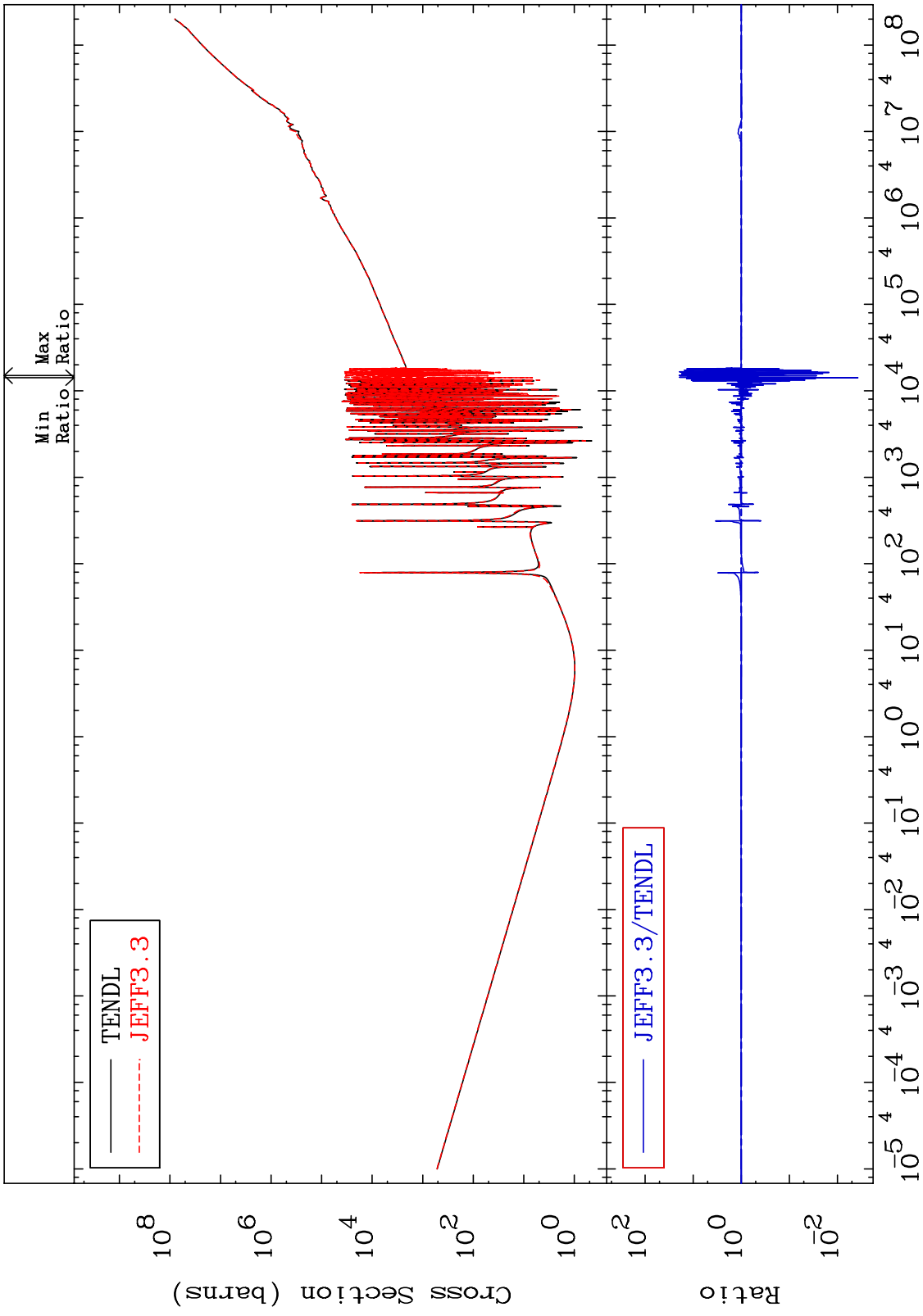


62

Incident Energy (eV)

60-Nd-150

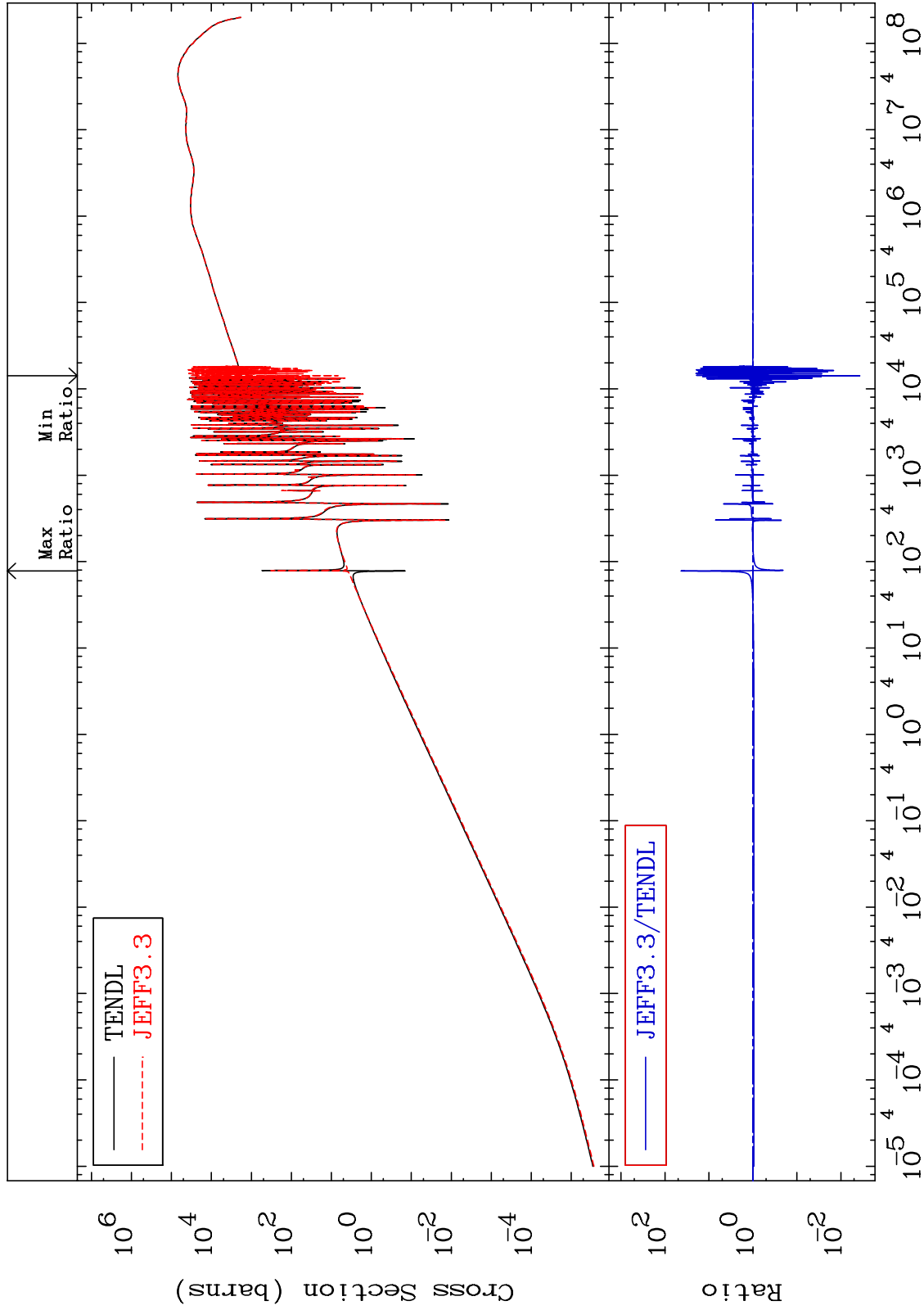
MAT 6049 Kerma total (eV-barns) 60-Nd-150
 Cross Section -99.62 To 1862. %



MAT 6049

Kerma elastic
Cross Section

60-Nd-150
-99.63 To 4155. %

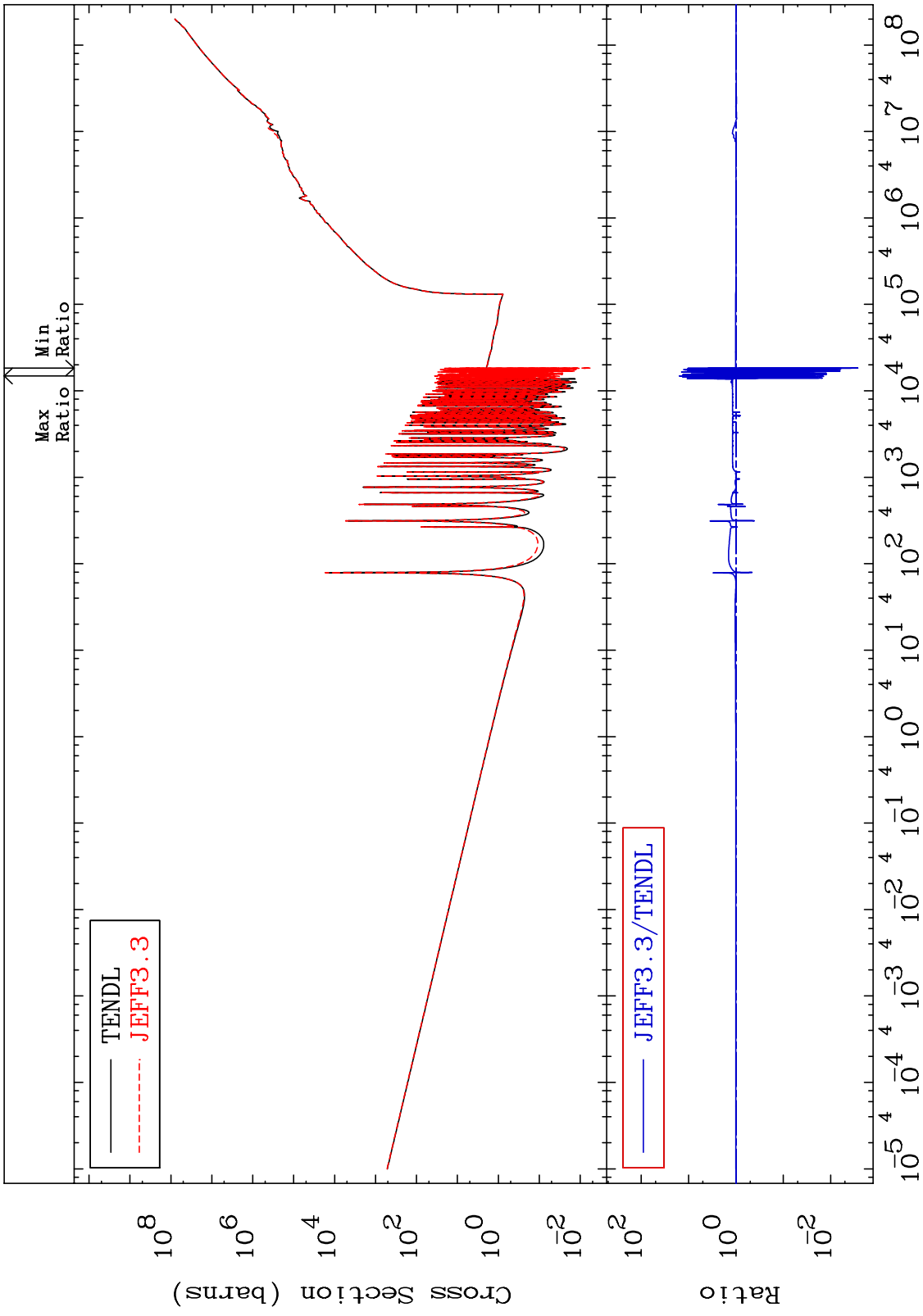


64

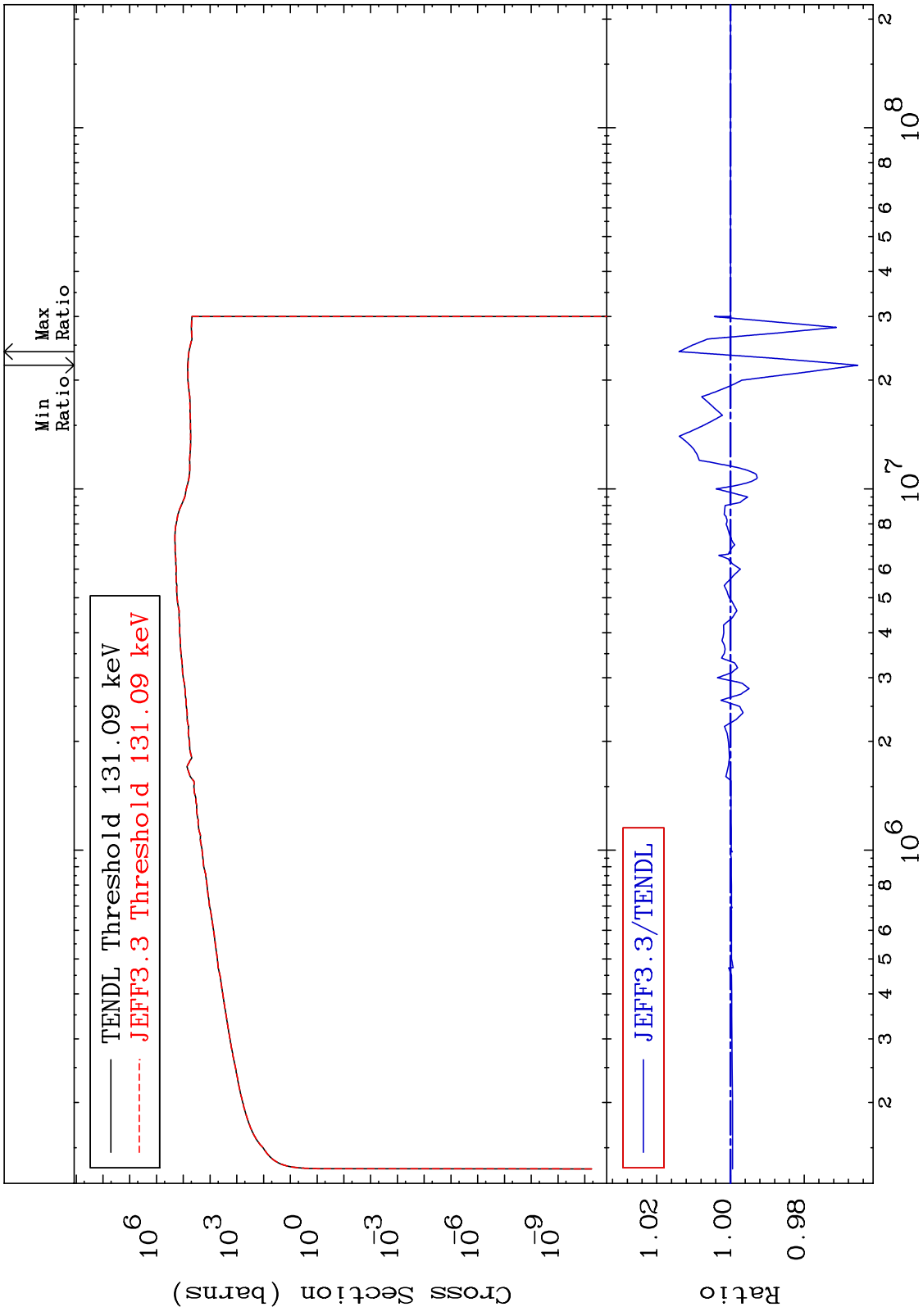
Incident Energy (eV)

60-Nd-150

MAT 6049 Kerma non-elastic (all but mt2) 60-Nd-150
 Cross Section -99.73 To 1490. %



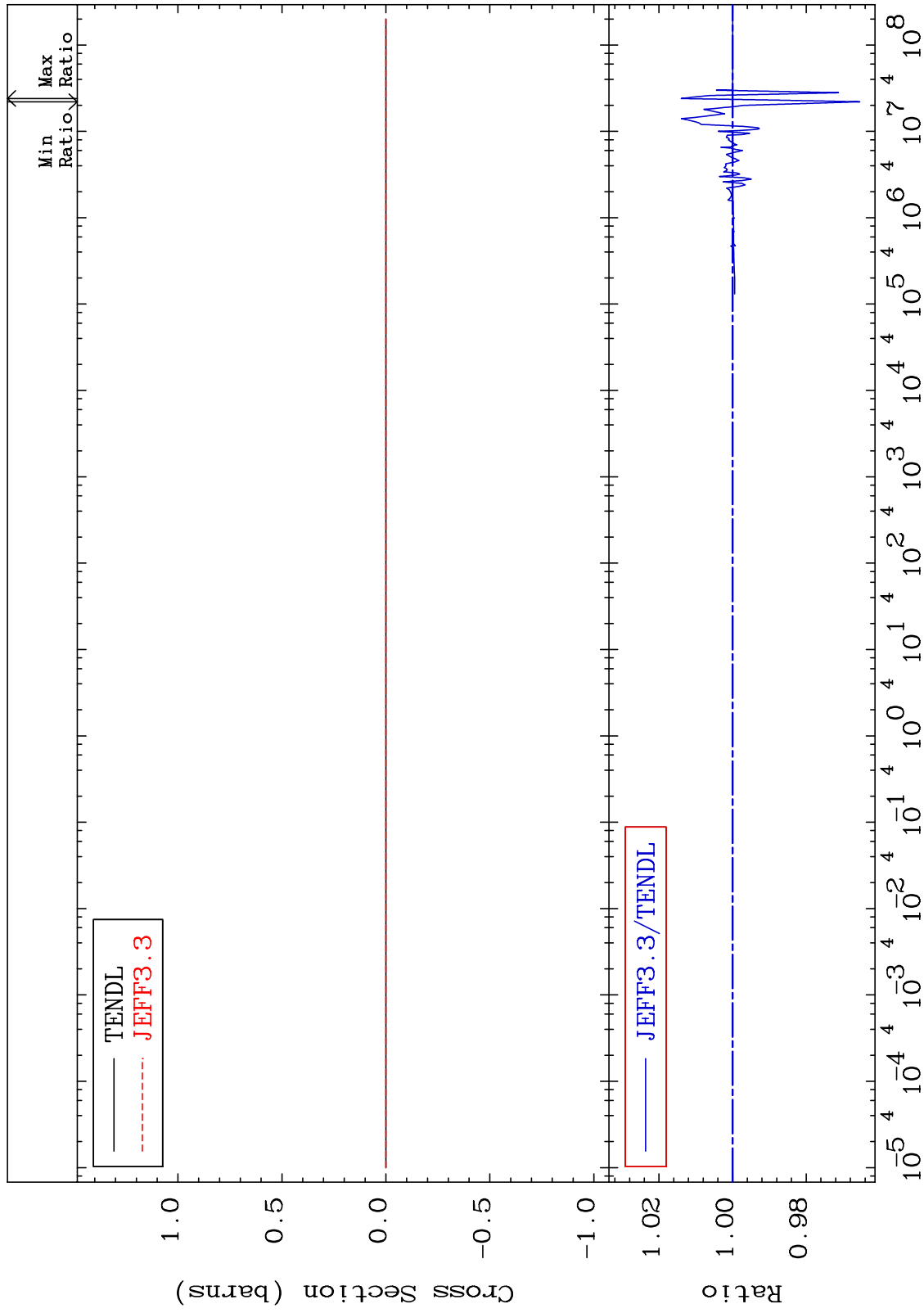
MAT 6049 Kerma inelastic (mt51-91) 60-Nd-150
 Cross Section -3.456 To 1.396 %



MAT 6049

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

60-Nd-150
-3.456 To 1.396 %



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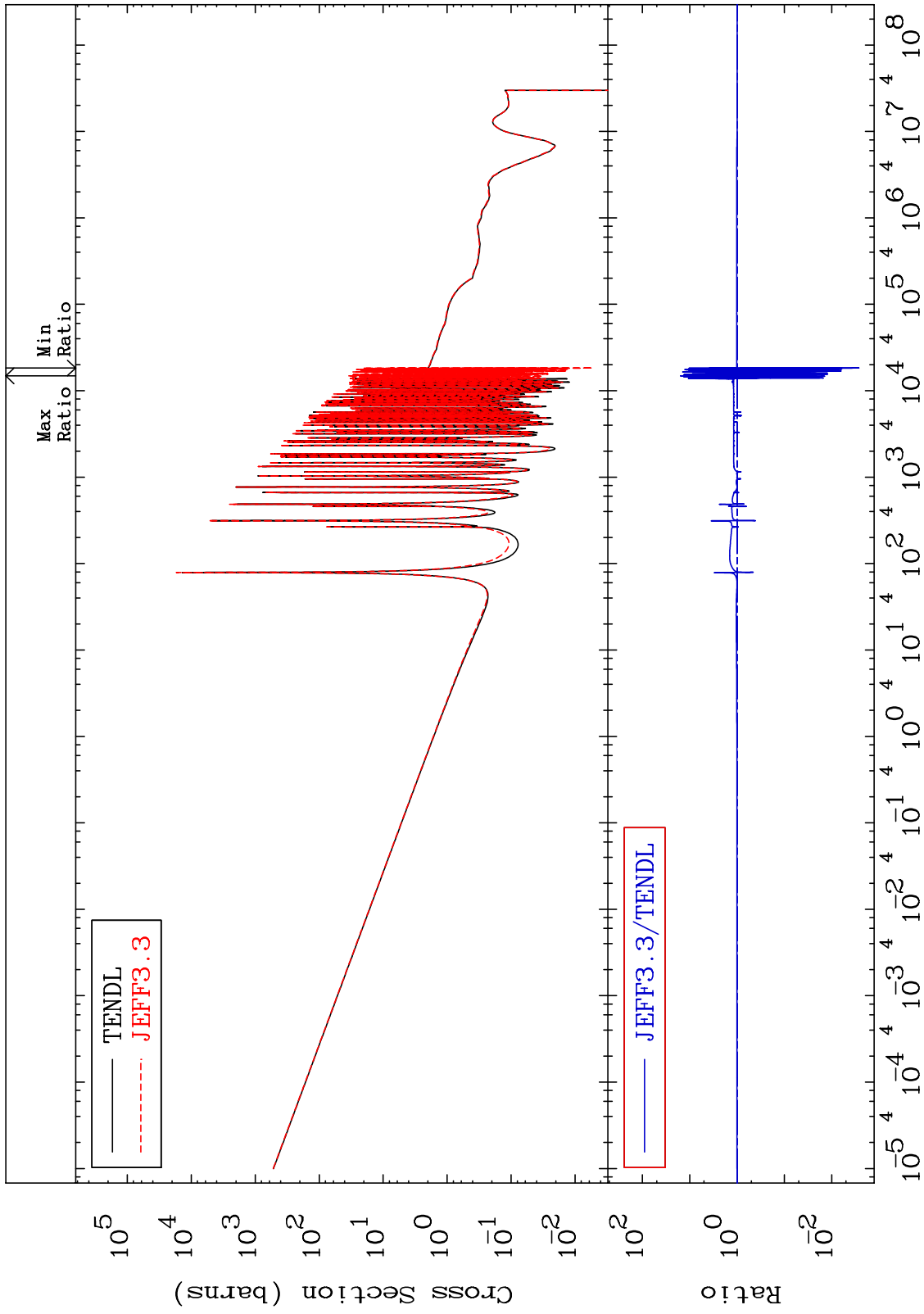
Incident Energy (eV)

60-Nd-150

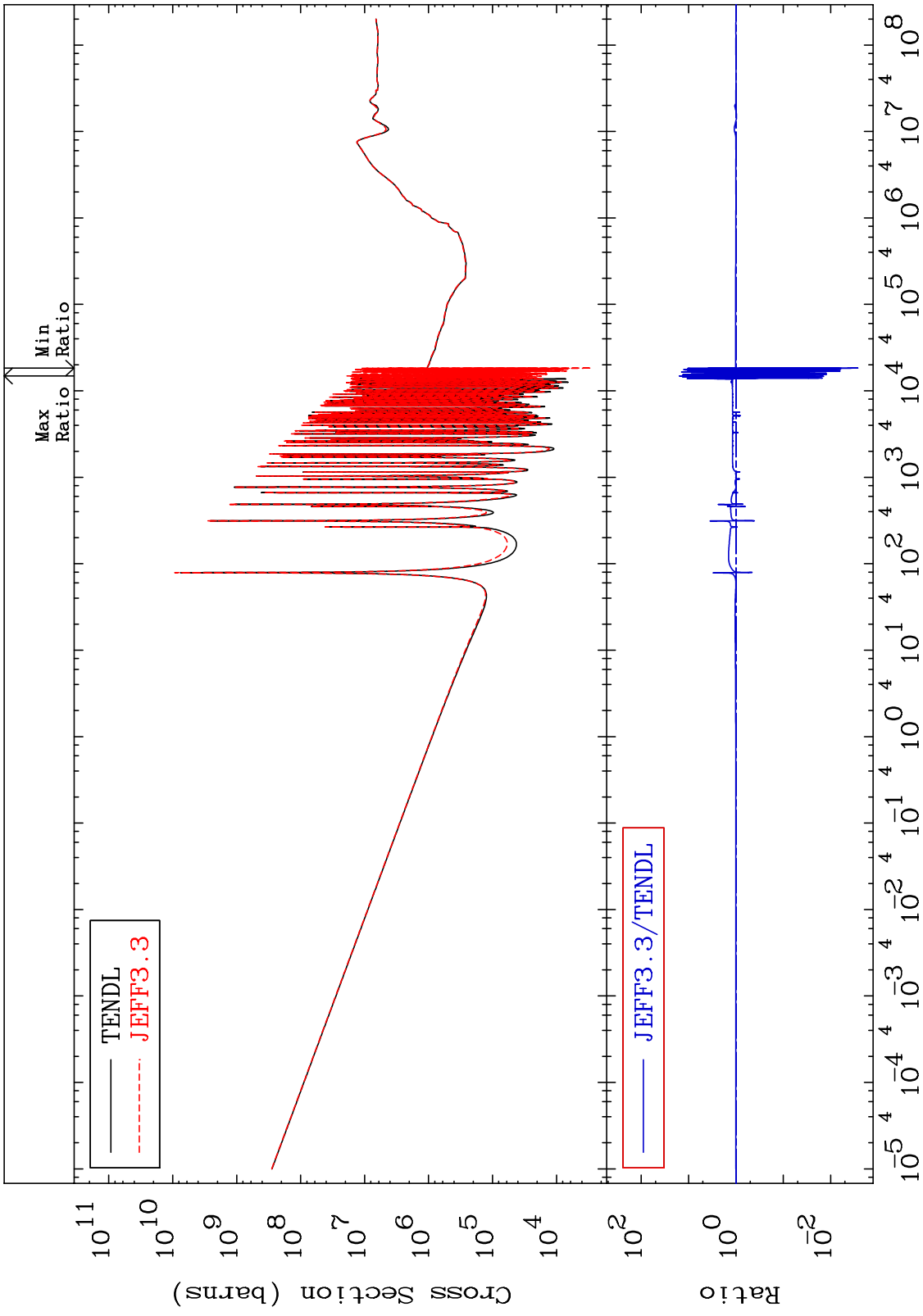
MAT 6049

Kerma capture (mt102)
Cross Section

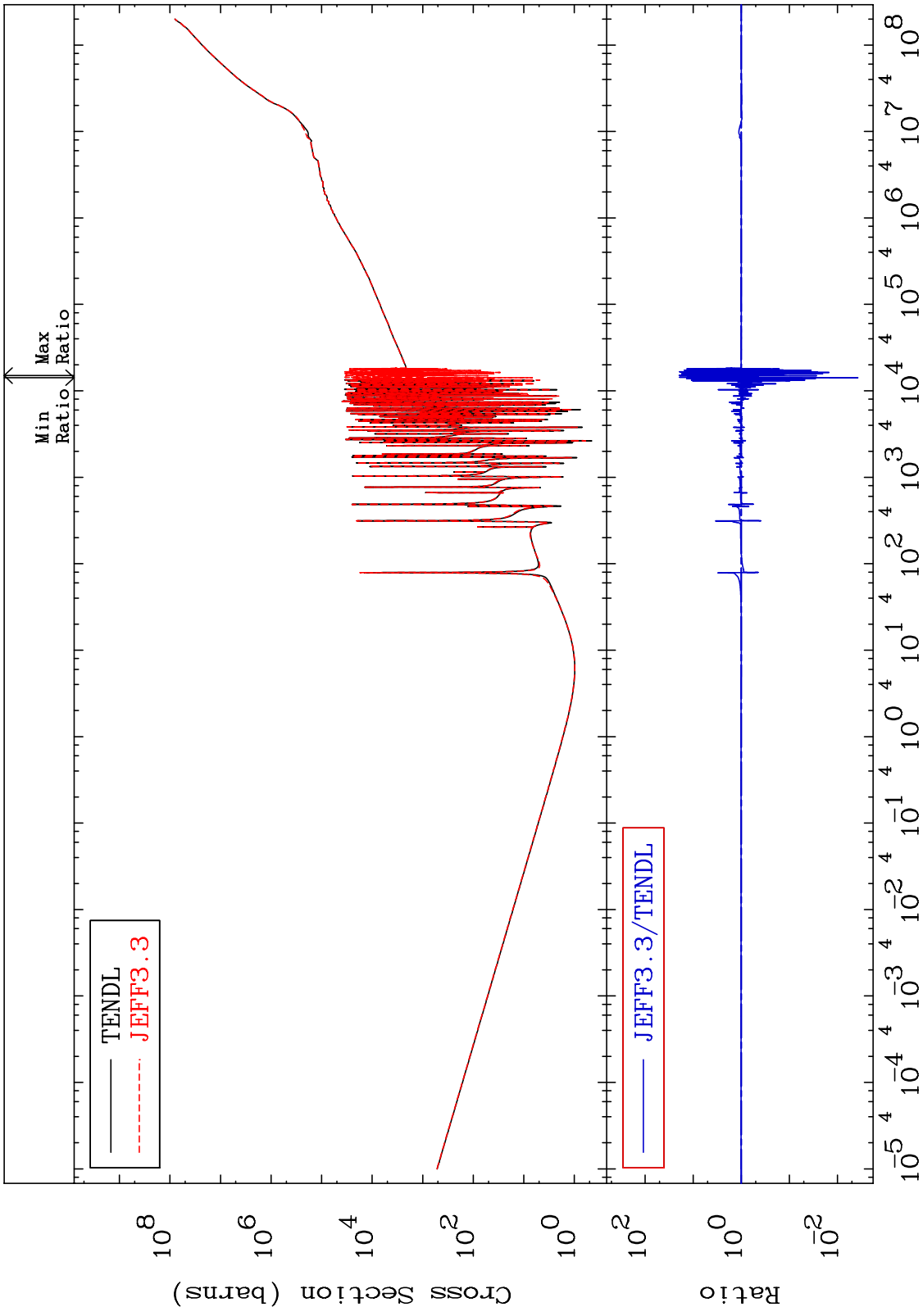
60-Nd-150
-99.73 To 1490. %



MAT 6049 Total photon (eV-barns) Cross Section 60-Nd-150 -99.73 To 1490. %

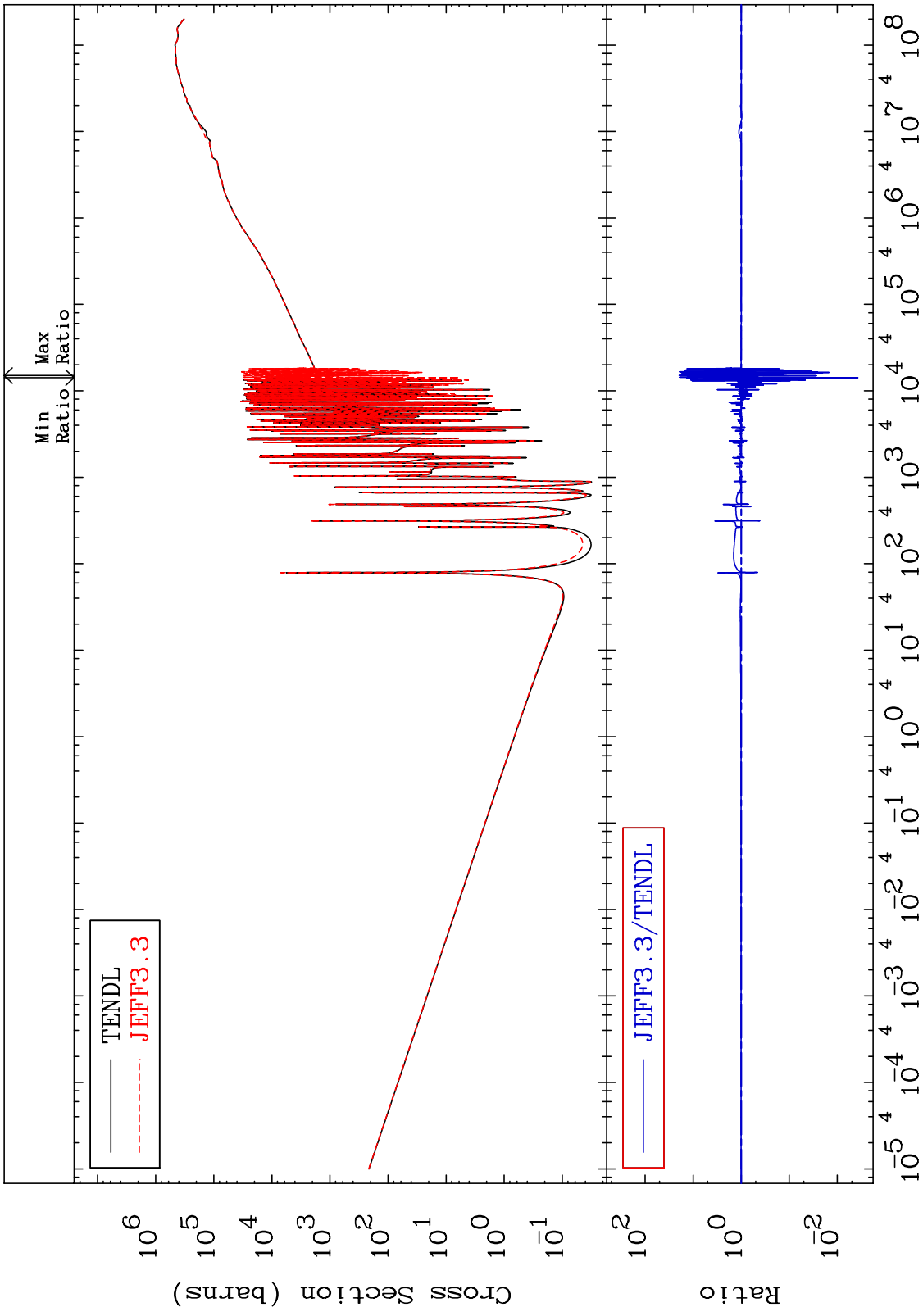


MAT 6049 Total kinematic kerma (high limit) 60-Nd-150
Cross Section -99.62 To 1862. %



70 Incident Energy (eV) 60-Nd-150

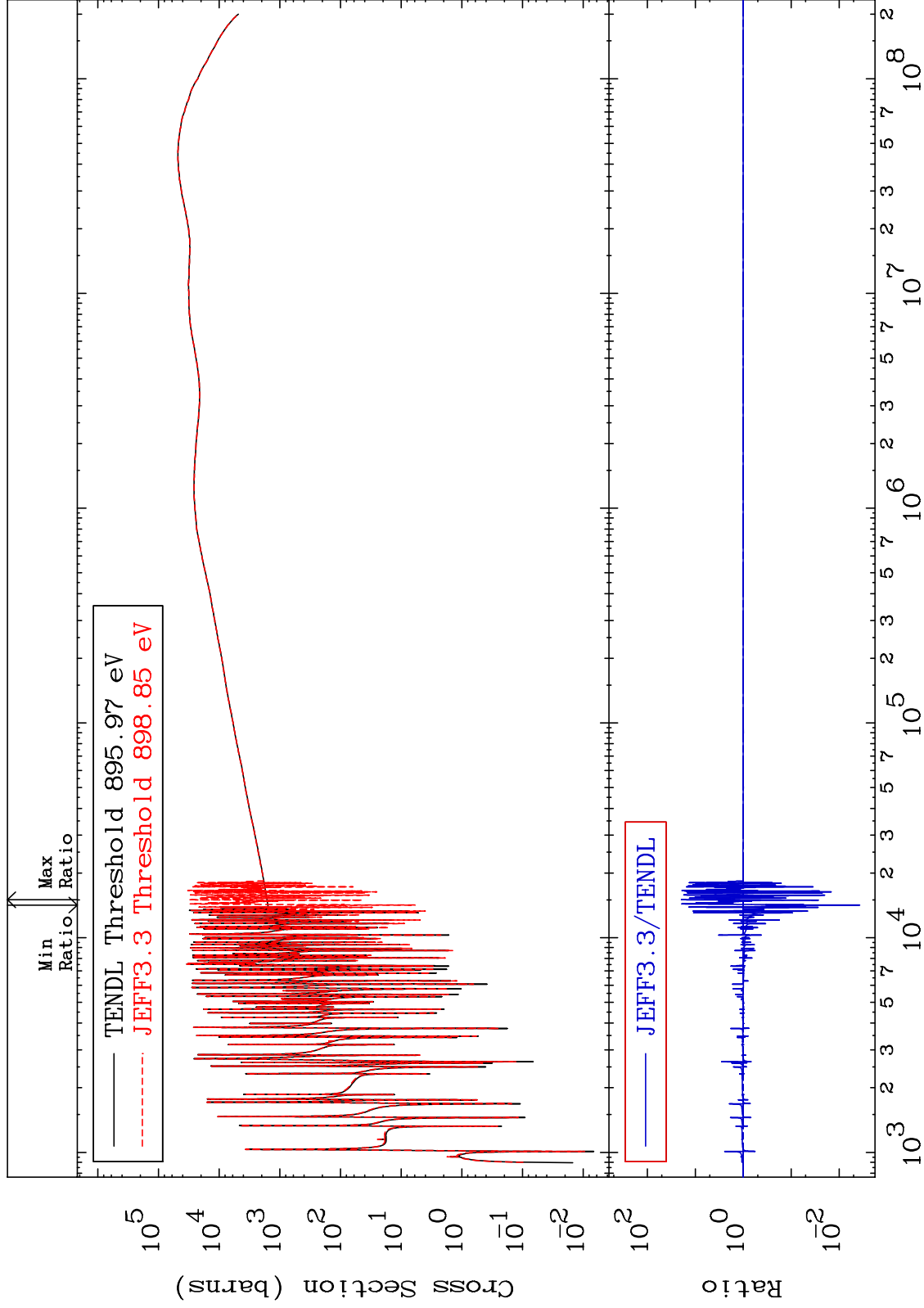
MAT 6049 Dpa total (eV-barns) 60-Nd-150
 Cross Section -99.63 To 1863. %



MAT 6049

Dpa elastic (mt2)
Cross Section

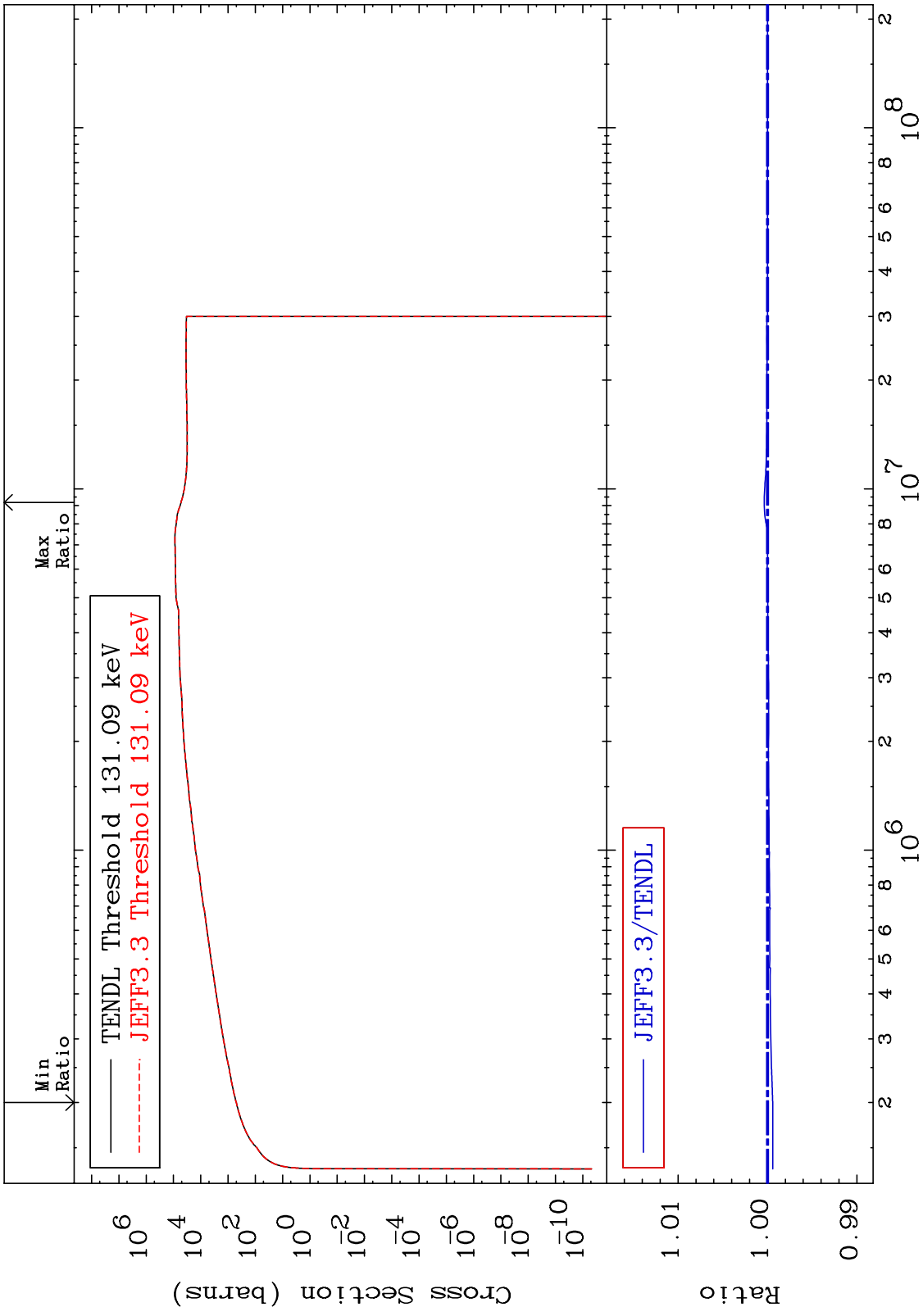
60-Nd-150
-99.63 To 1864. %



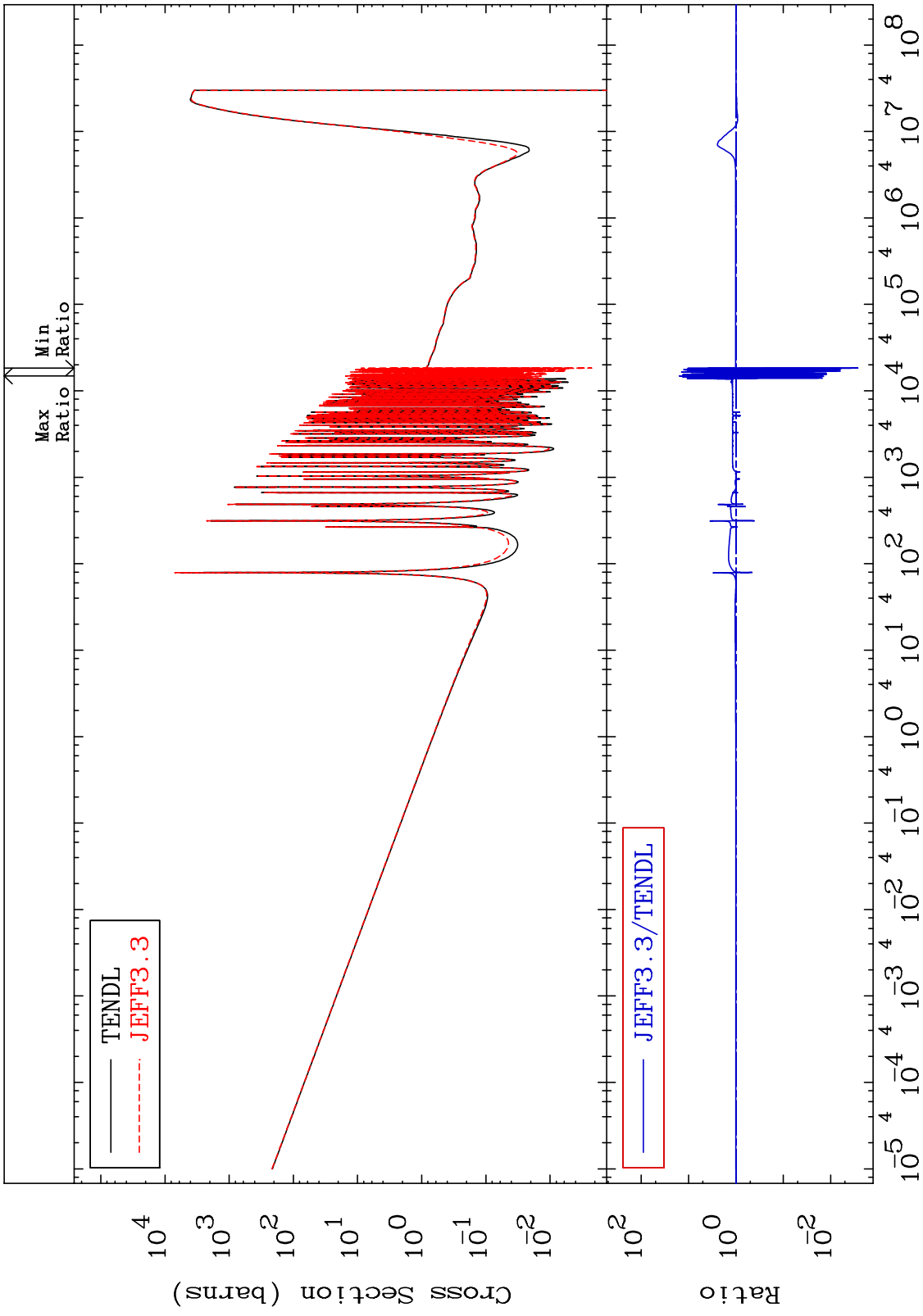
72

60-Nd-150

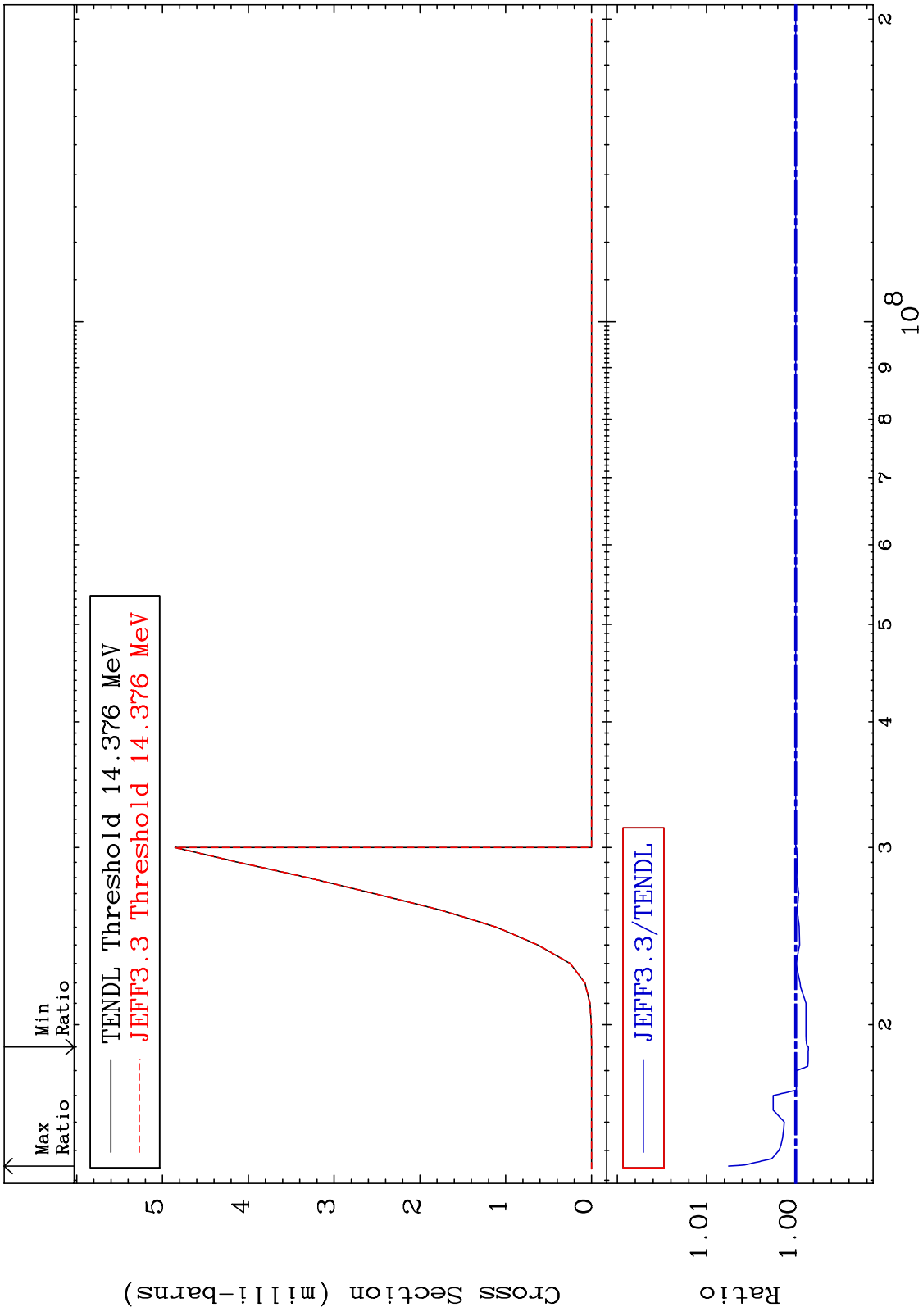
MAT 6049 Dpa inelastic (mt51-91) 60-Nd-150
 Cross Section -0.058 To 0.037 %



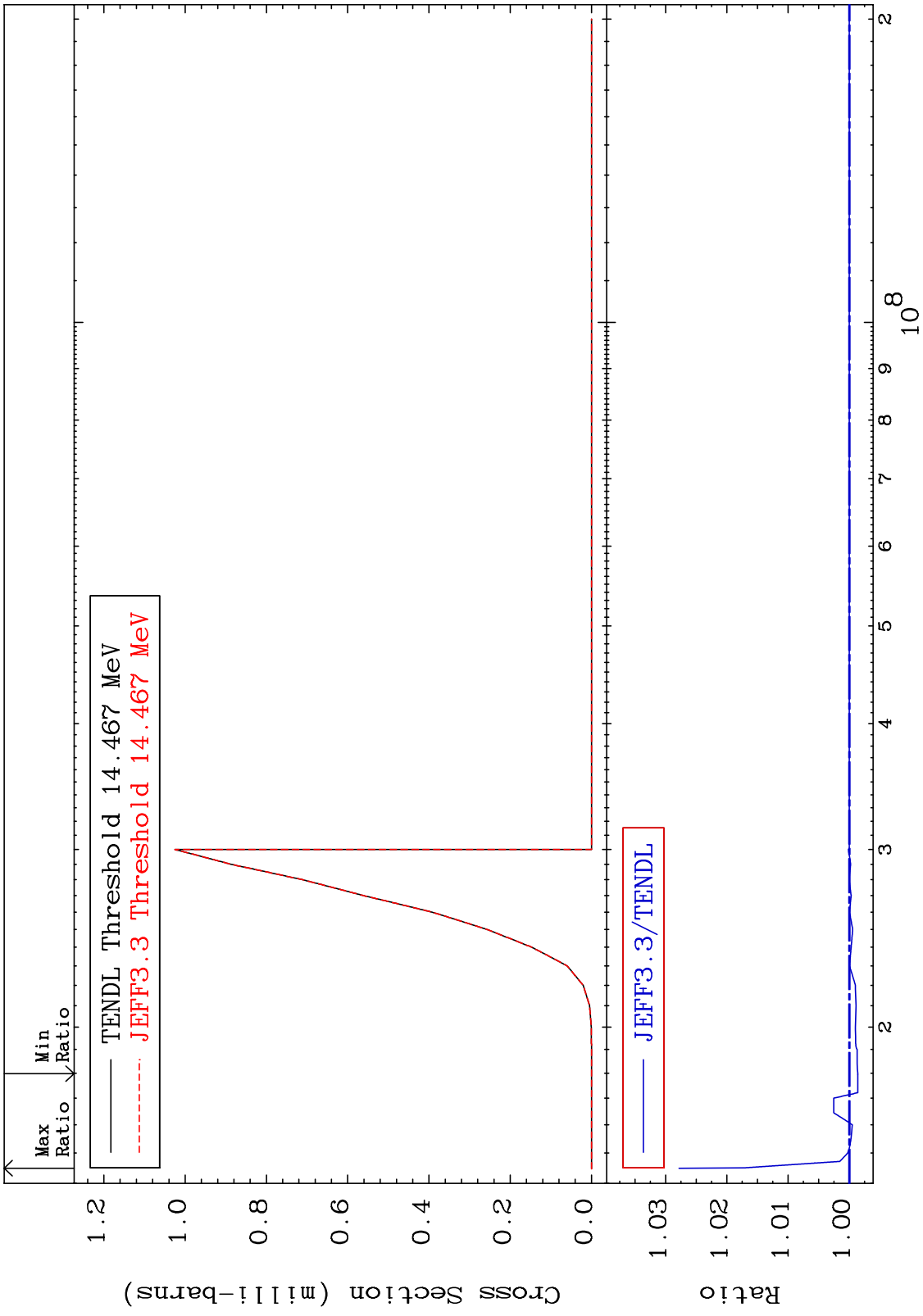
MAT 6049 Dpa disappearance (mt102 -120) 60-Nd-150
 Cross Section -99.73 To 1490. %



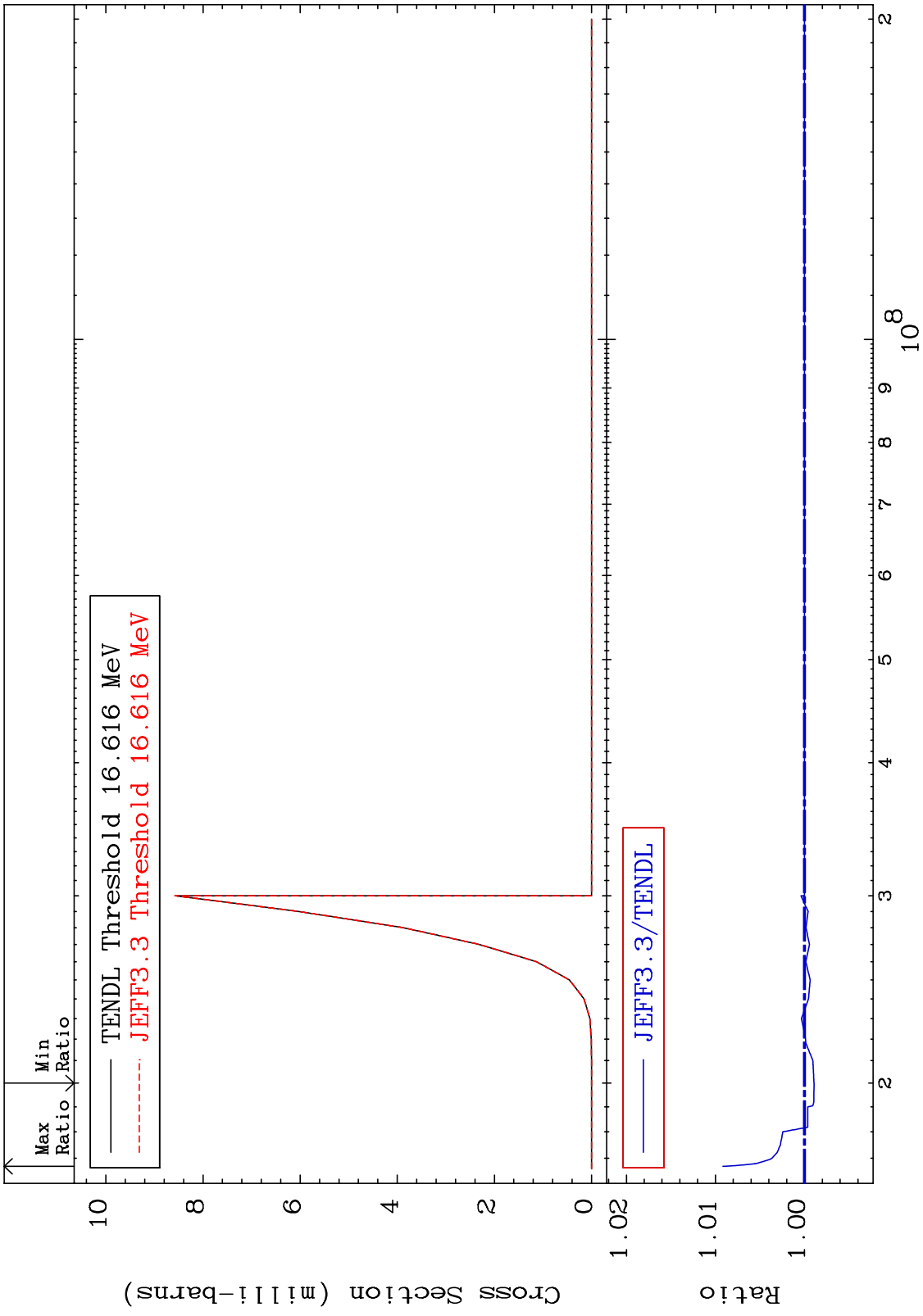
MAT 6049 (n, n') d:59-Pr-148g 60-Nd-150
 Radionuclide Production Cross Section -0.142 To 0.753 %



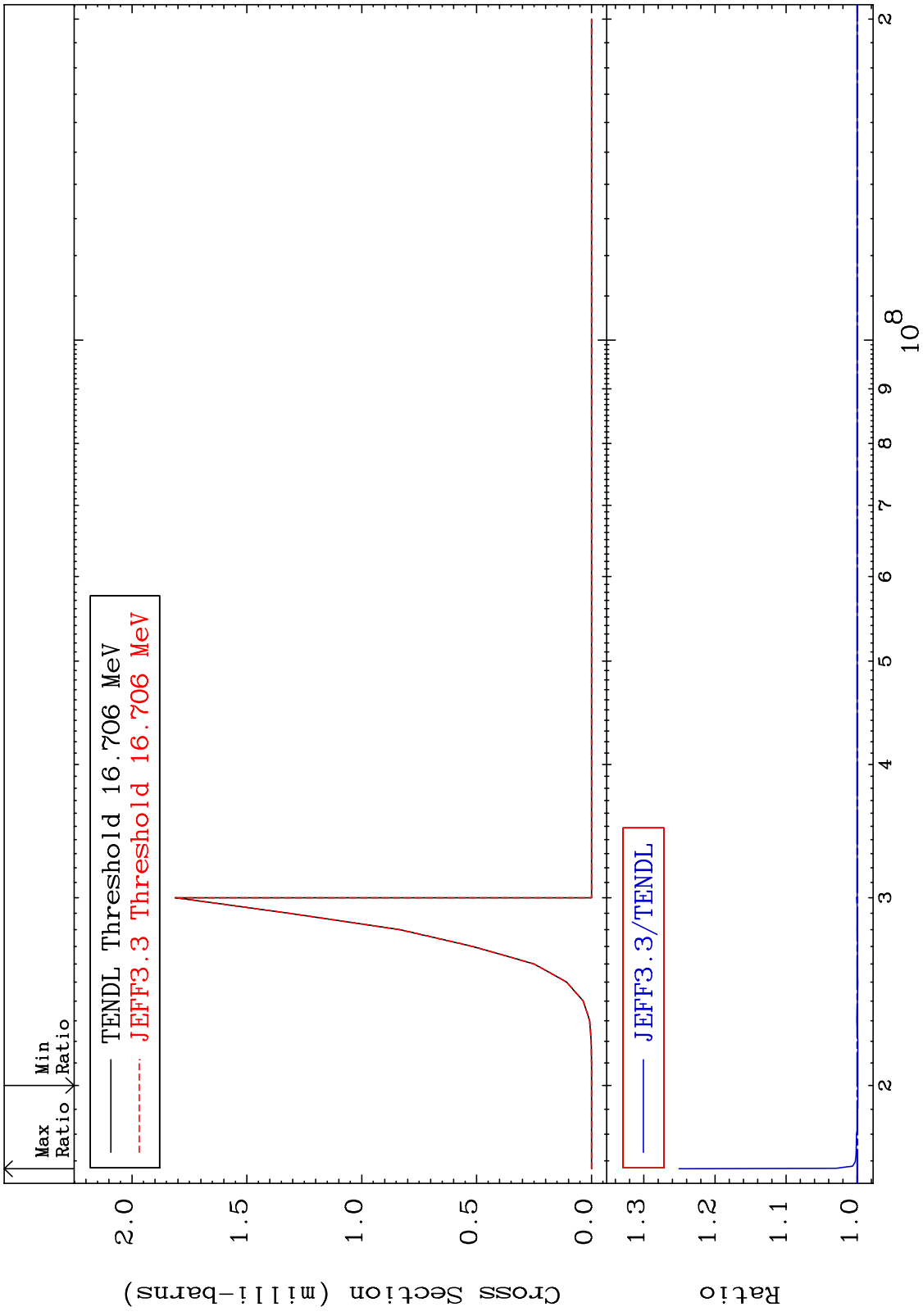
MAT 6049 (n,n') d:59-Pr-148m1 60-Nd-150
 Radionuclide Production Cross Section -0.138 To 2.782 %



MAT 6049 (n,2n) p:59-Pr-148g 60-Nd-150
 Radionuclide Production Cross Section -0.107 To 0.916 %



MAT 6049 (n,2n) p:59-Pr-148m1 60-Nd-150
 Radionuclide Production Cross Section -0.089 To 25.06 %

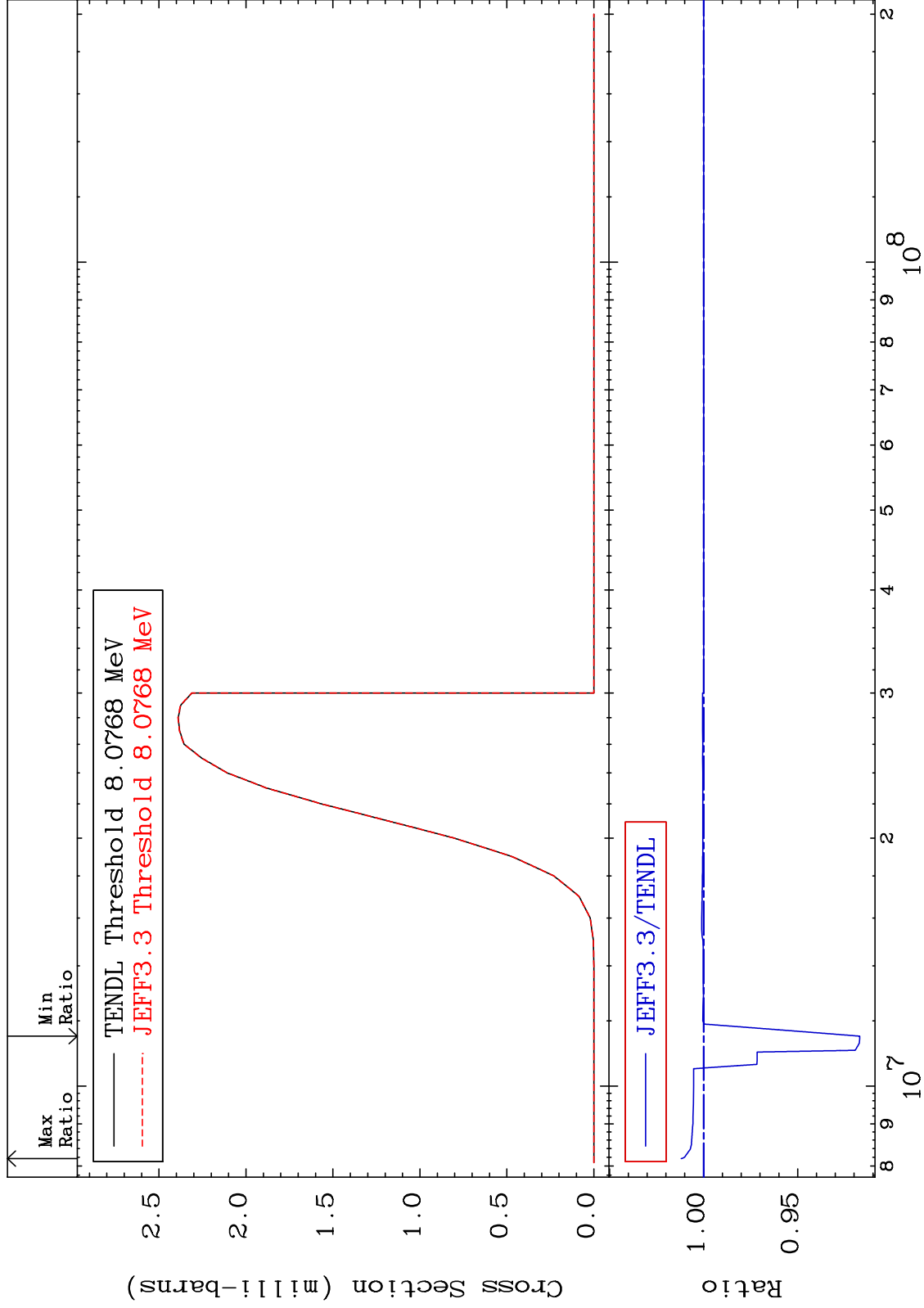


MAT 6049

(n, t): 59-Pr-148g

60-Nd-150

Radionuclide Production Cross Section -8.299 To 1.187 %

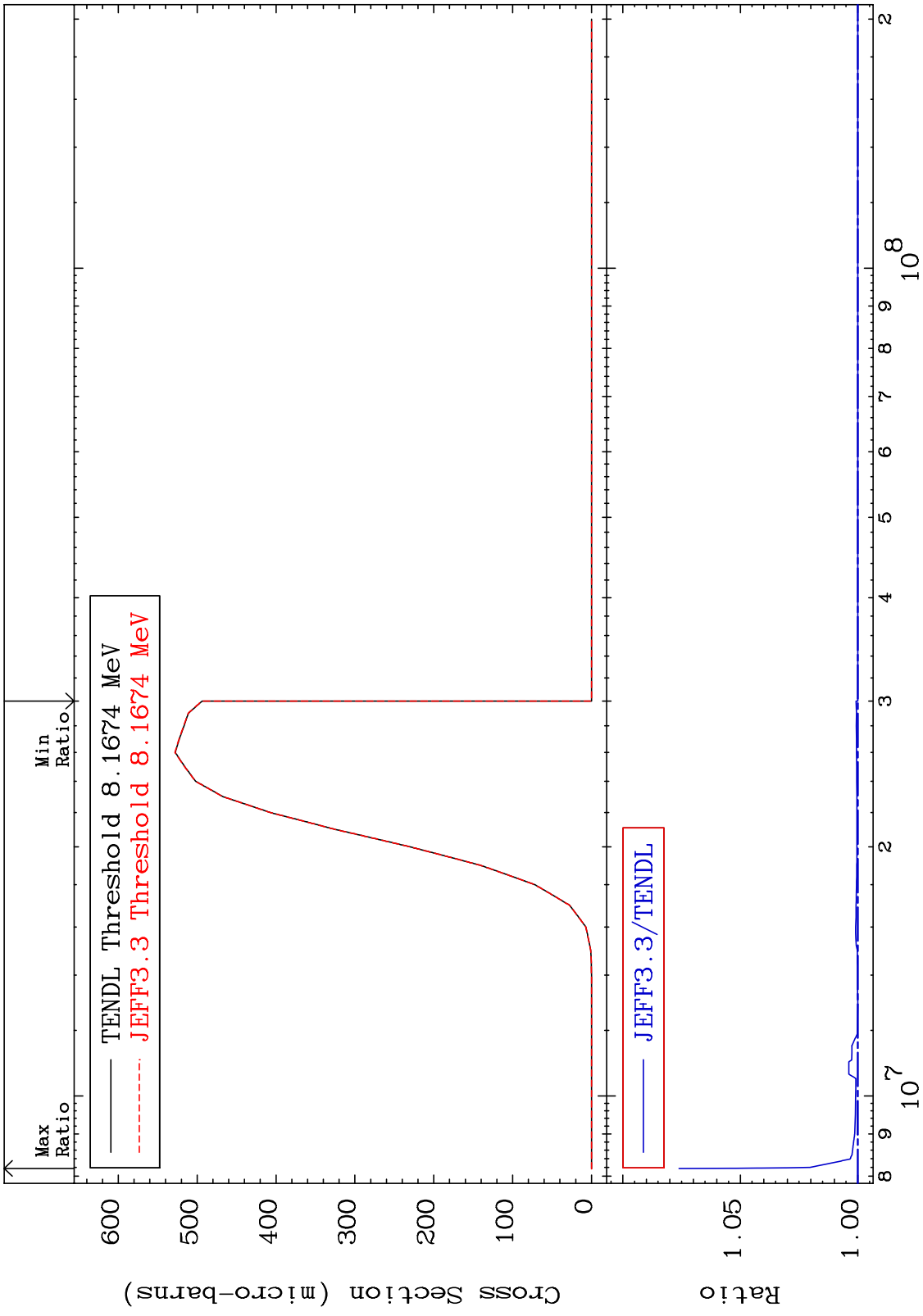


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Incident Energy (eV)

60-Nd-150

MAT 6049 (n, t):59-Pr-148m1 60-Nd-150
 Radionuclide Production Cross Section 0.000 To 7.607 %



80 80-Nd-150