

Program Complot
(Version 2018-1)

by

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(Present Contact Information)

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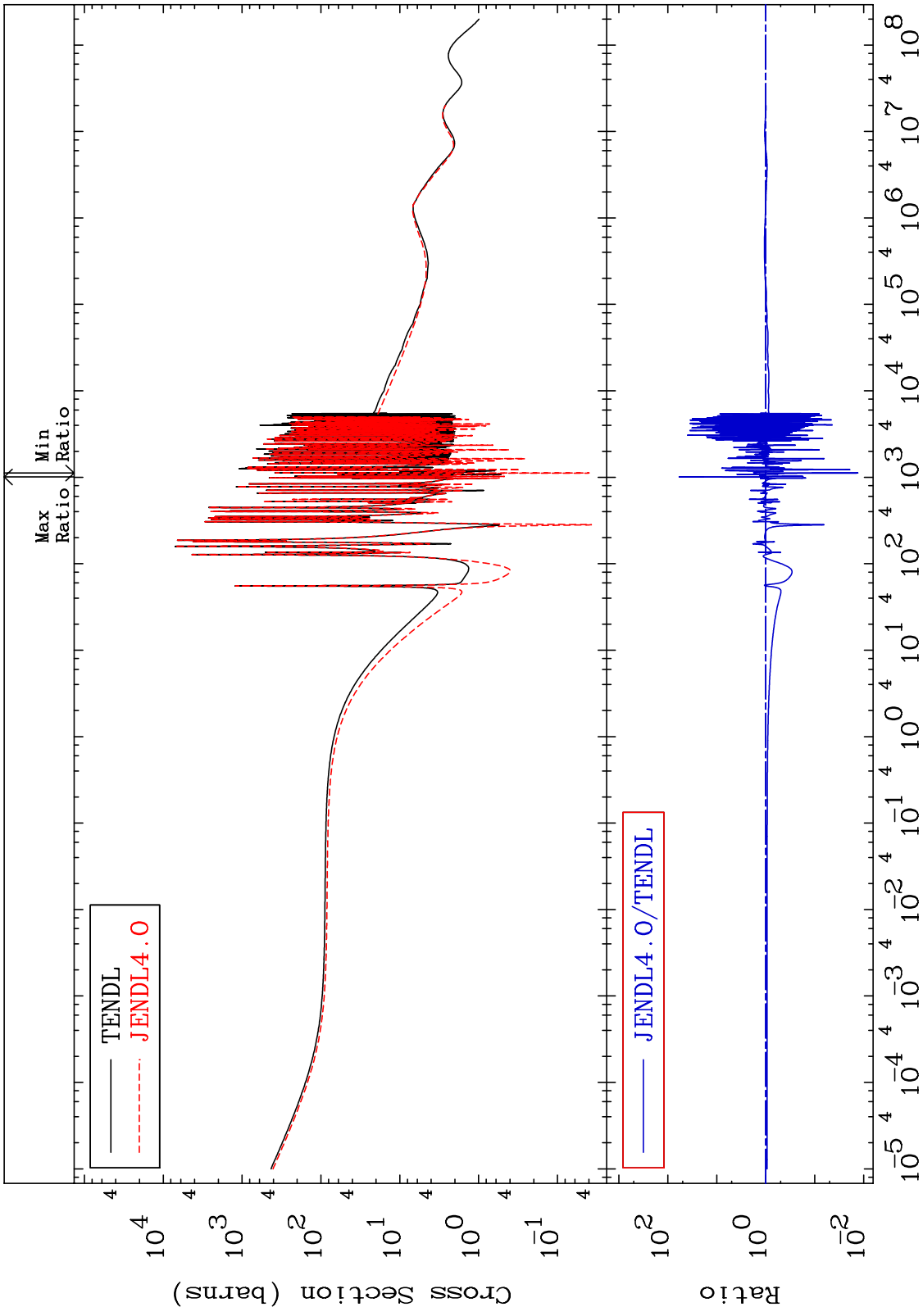
U.S.A.

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Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6028 Elastic Cross Section 60-Nd-143 -98.68 To 5829. %

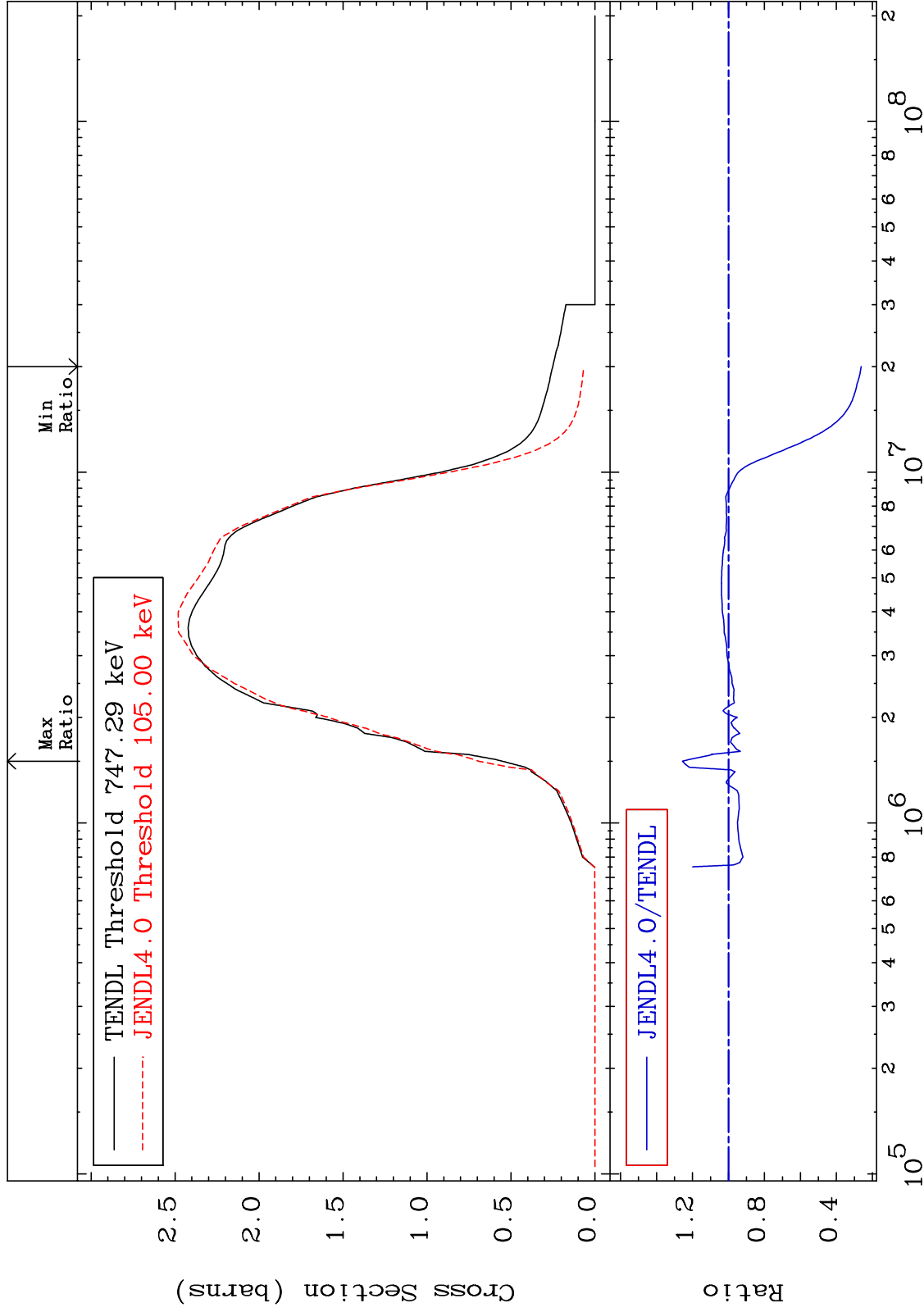


2 Incident Energy (eV) 60-Nd-143

MAT 6028

Inelastic
Cross Section

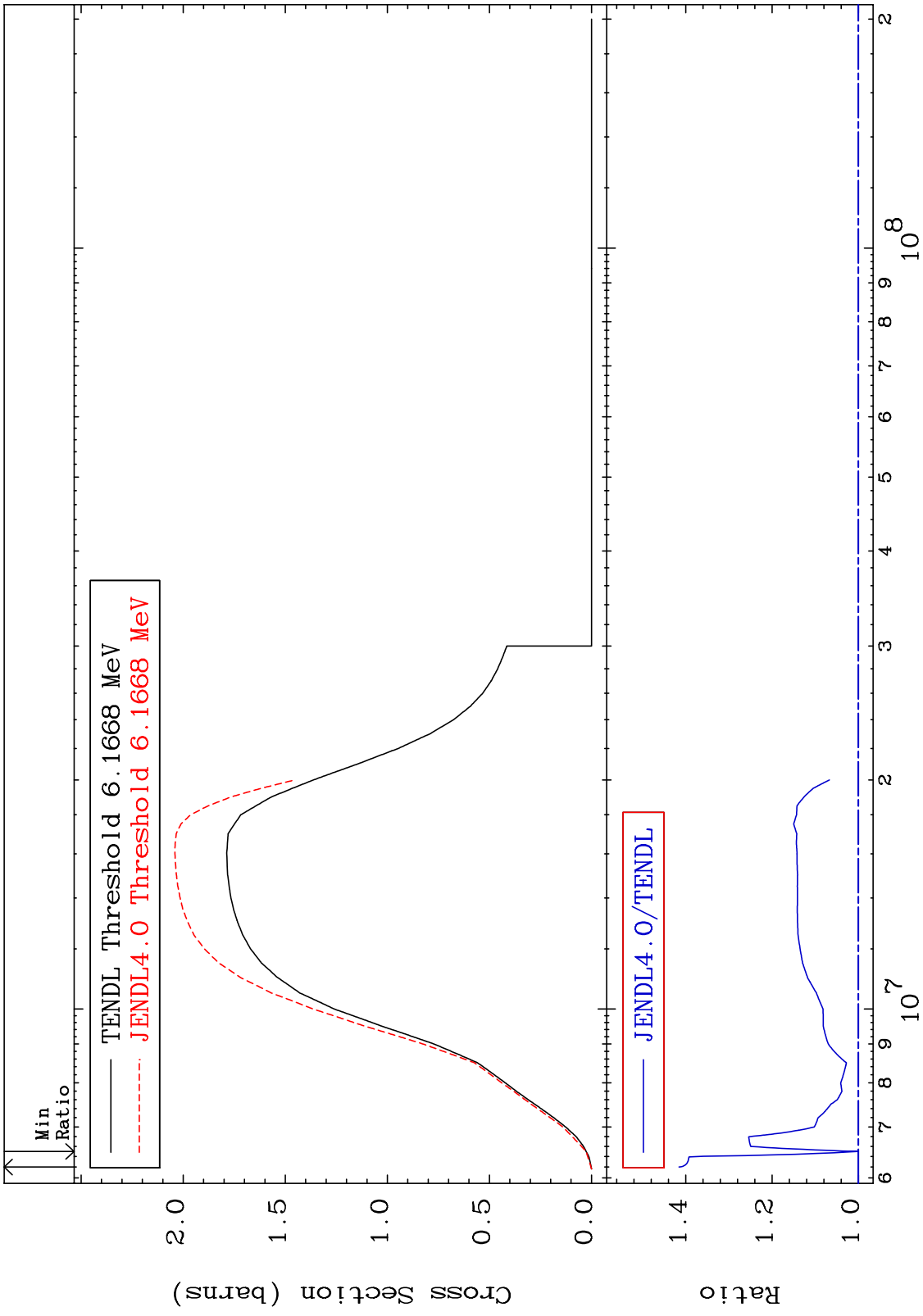
60-Nd-143
-73.83 To 25.58 %



Incident Energy (eV)

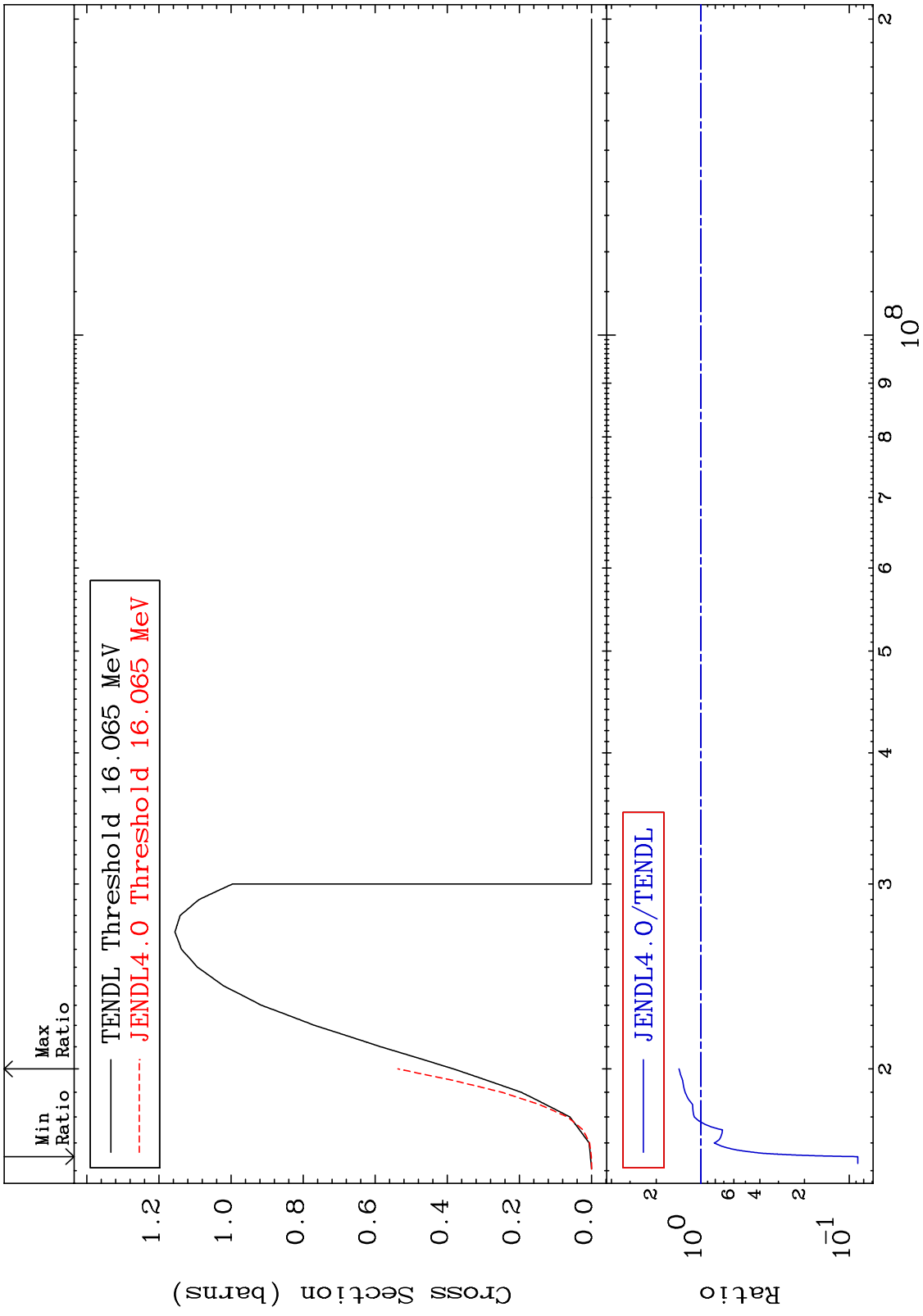
60-Nd-143

MAT 6028 (n,2n) Cross Section 60-Nd-143 To 41.56 %



4 Incident Energy (eV) 60-Nd-143

MAT 6028 (n,3n) Cross Section 60-Nd-143 -91.25 To 40.28 %



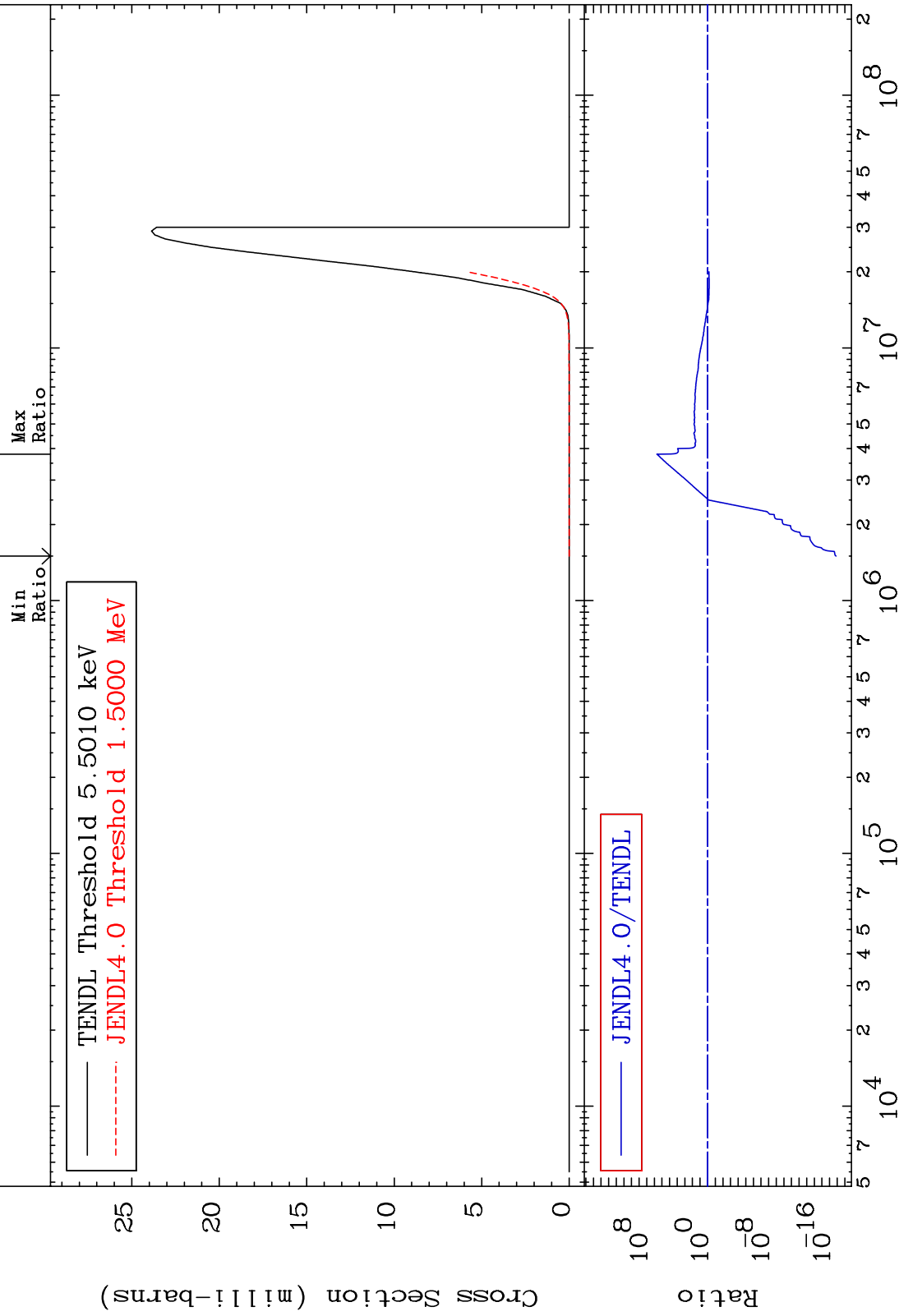
MAT 6028

(n, n') α

60-Nd-143

-100.0 To 9999. %

Cross Section



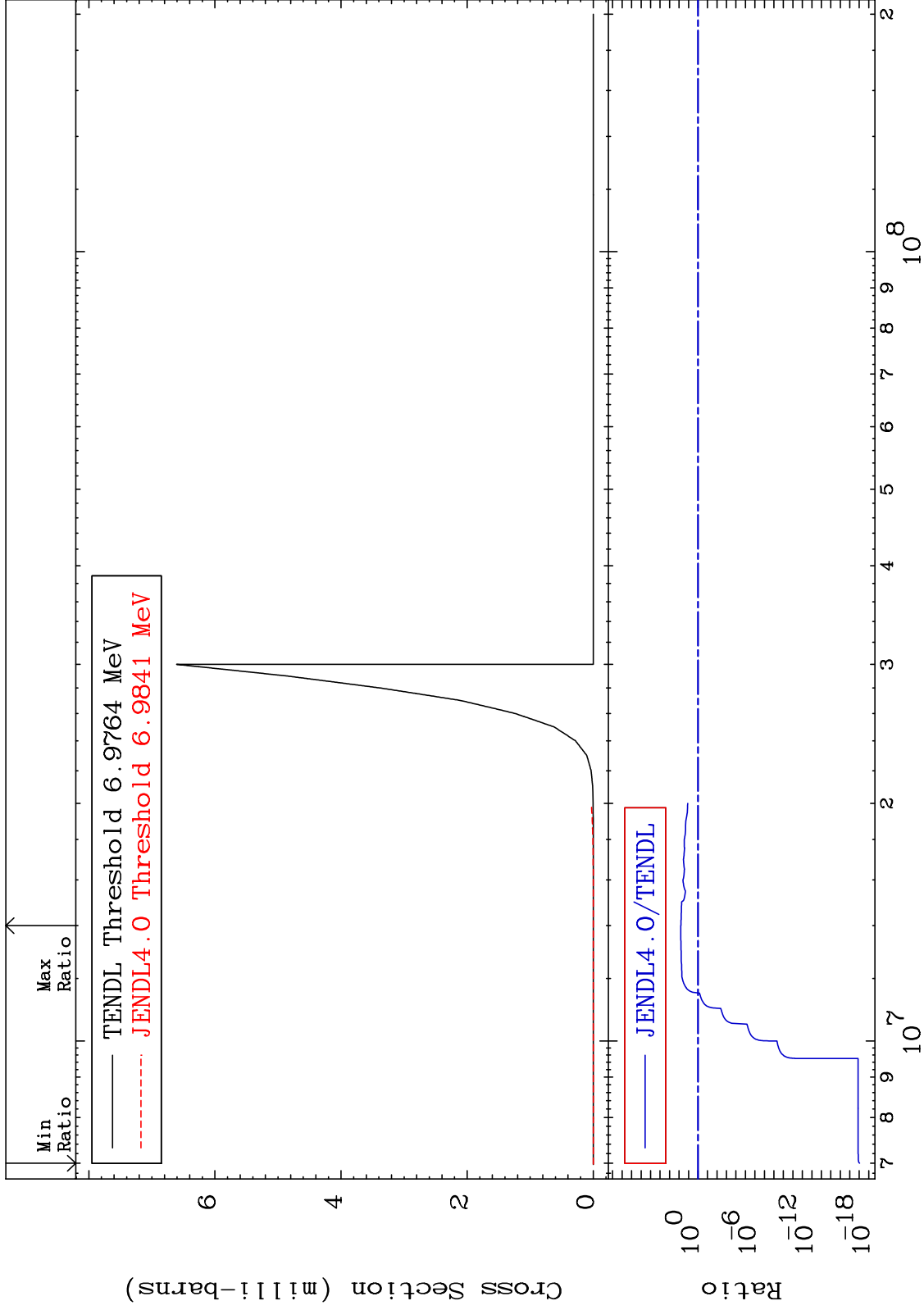
MAT 6028

(n,2n) α

60-Nd-143

-100.0 To 6379. %

Cross Section

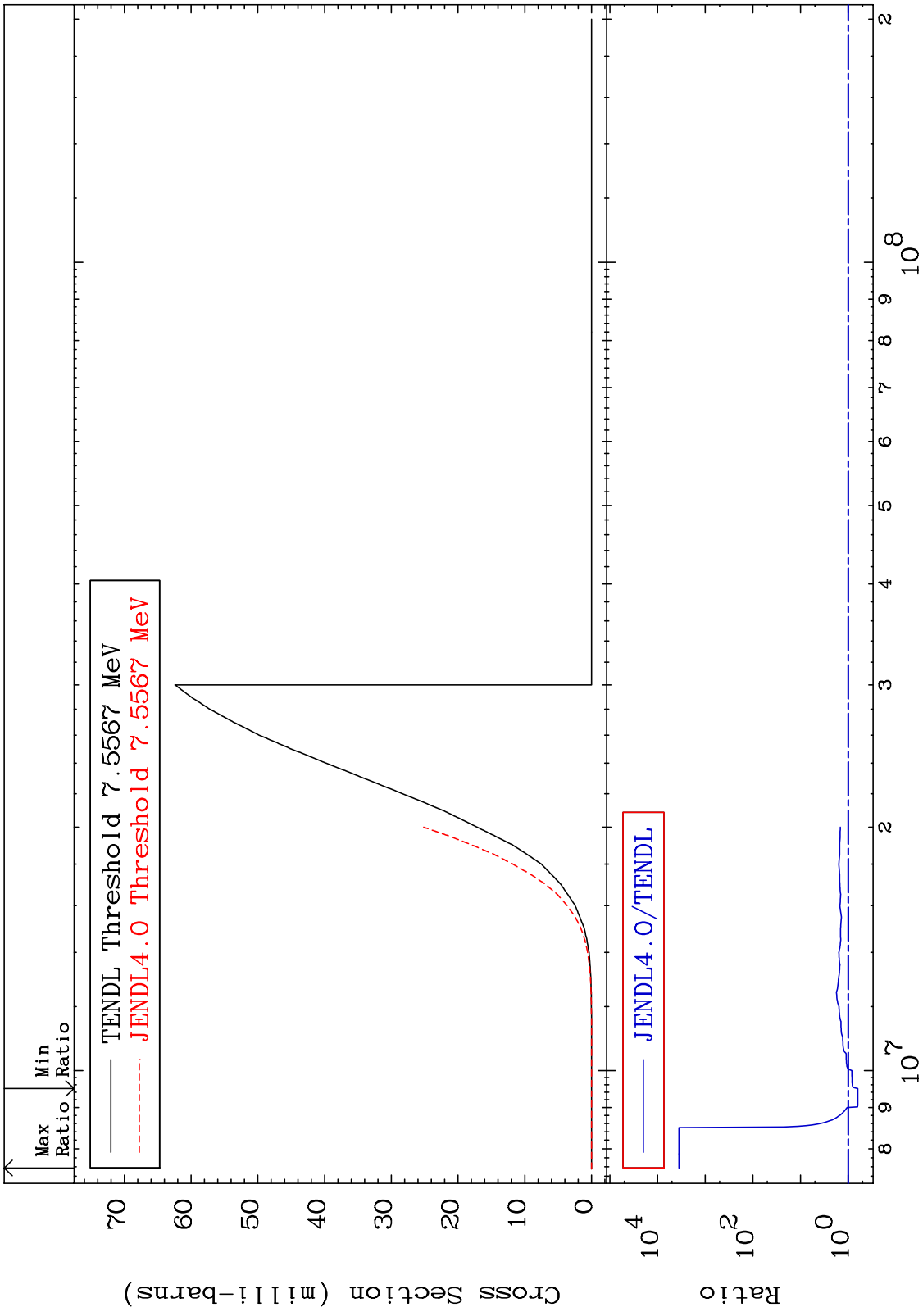


7

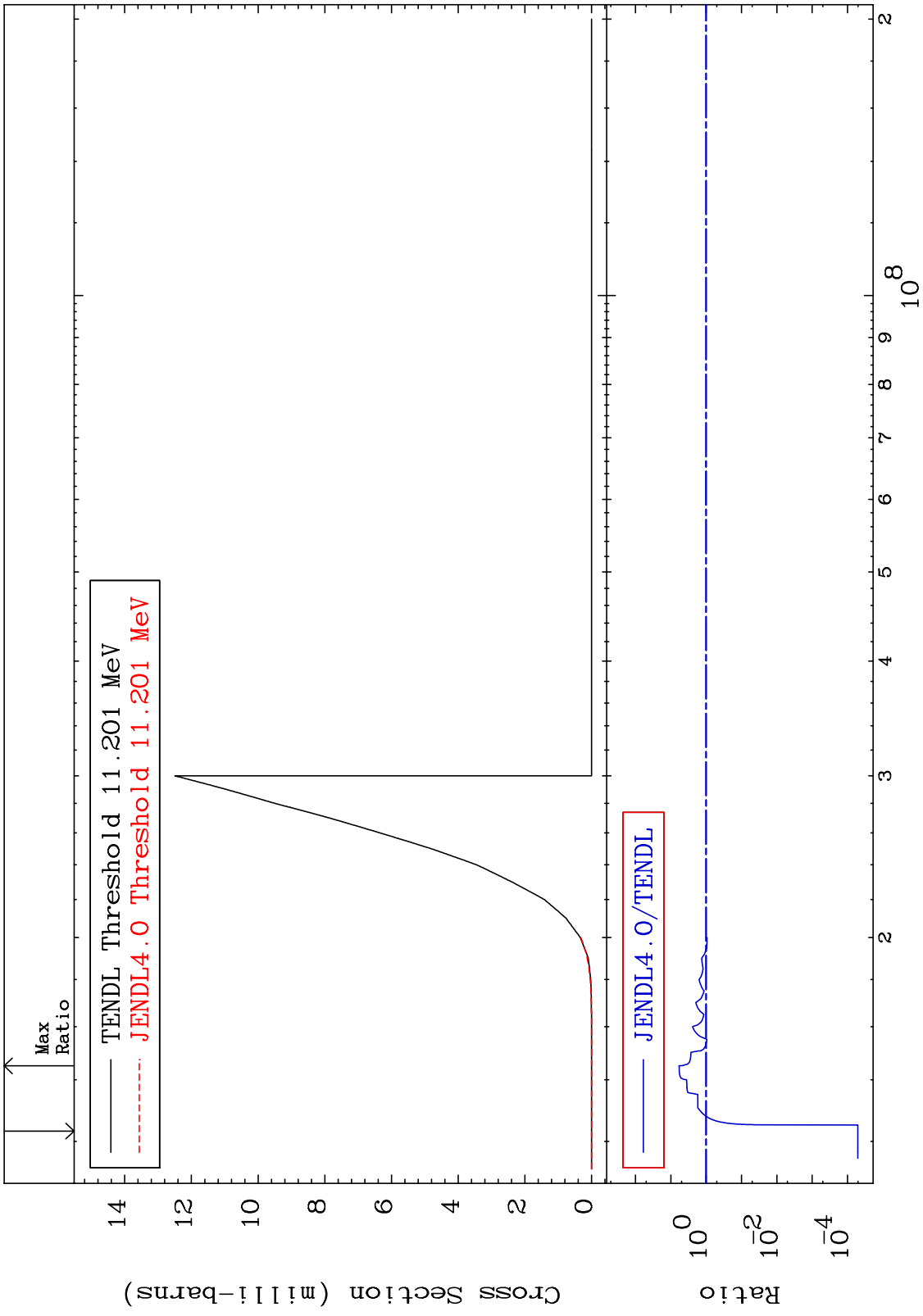
Incident Energy (eV)

60-Nd-143

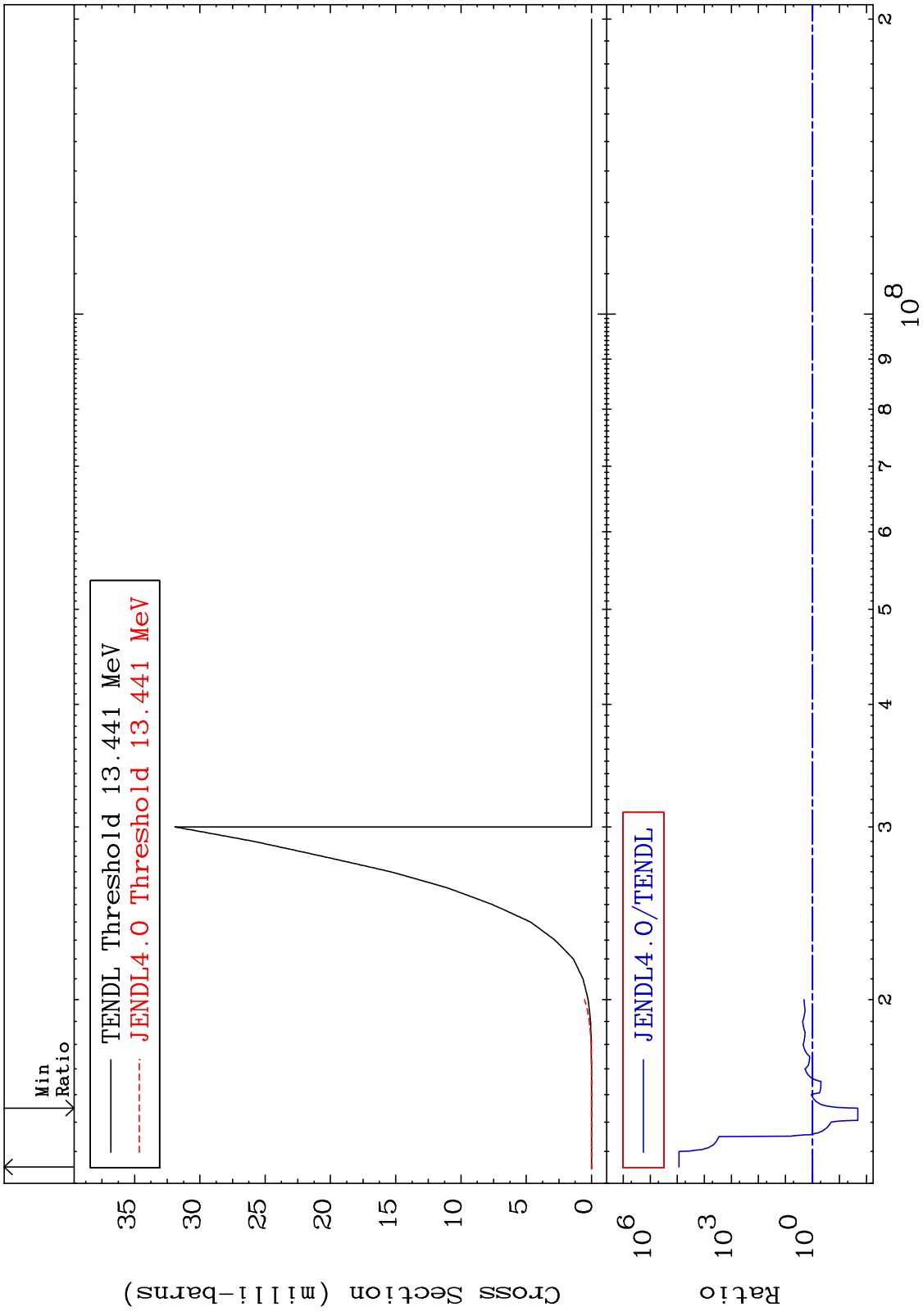
MAT 6028 (n,n') p 60-Nd-143
 Cross Section -37.31 To 9999. %



8 Incident Energy (eV) 60-Nd-143

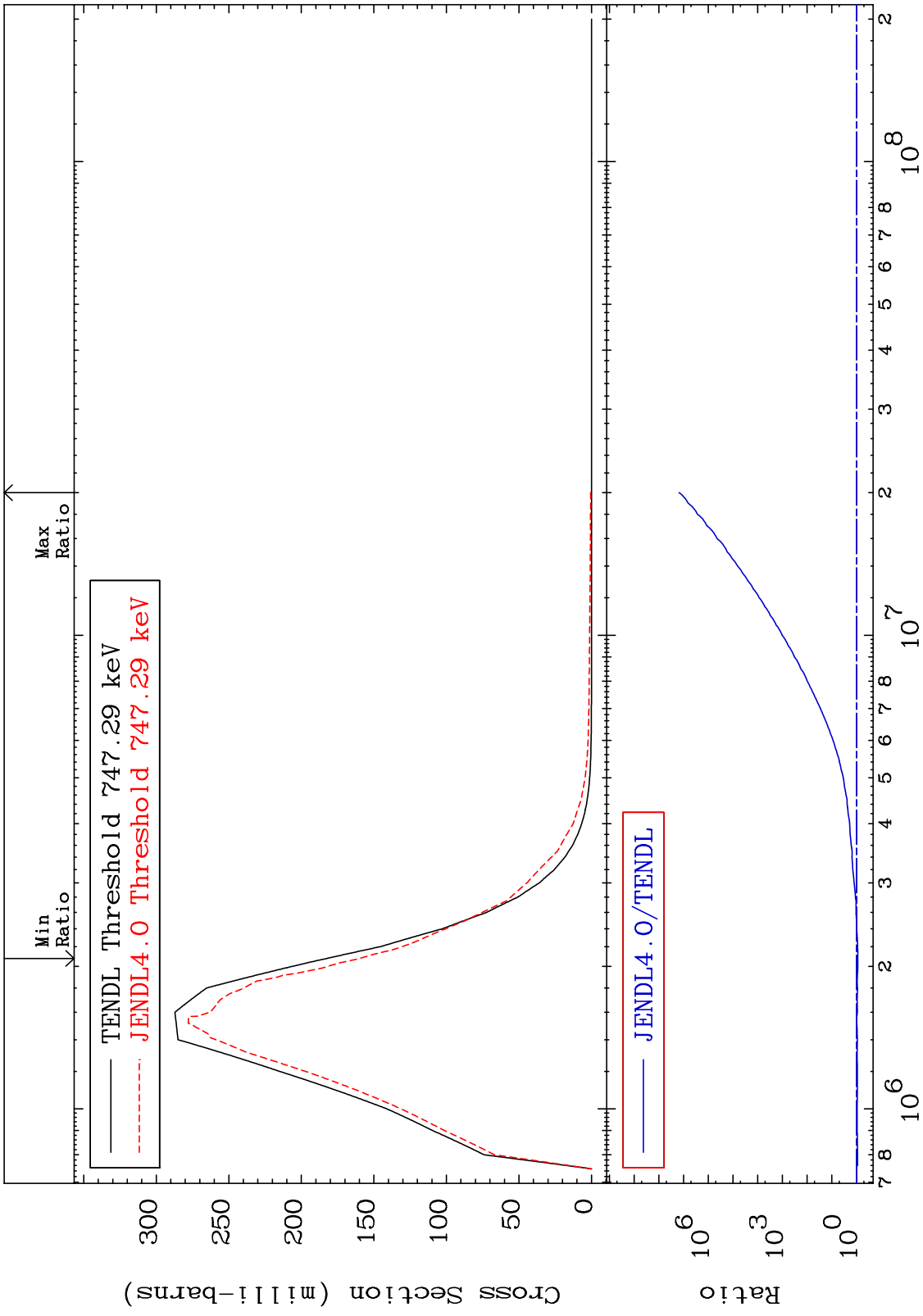


MAT 6028 (n,2n) p 60-Nd-143
 Cross Section -97.90 To 9999. %

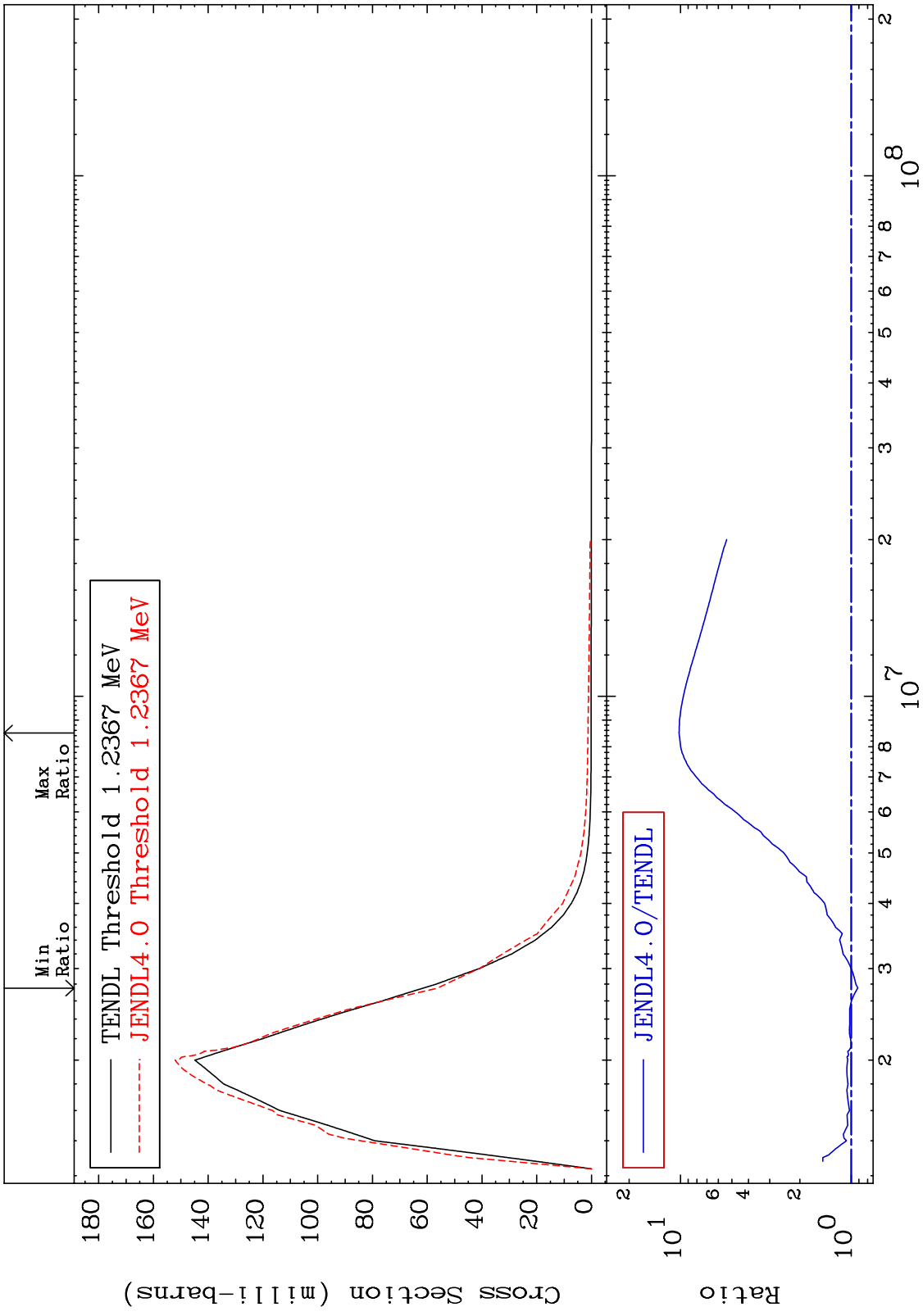


10 Incident Energy (eV) 60-Nd-143

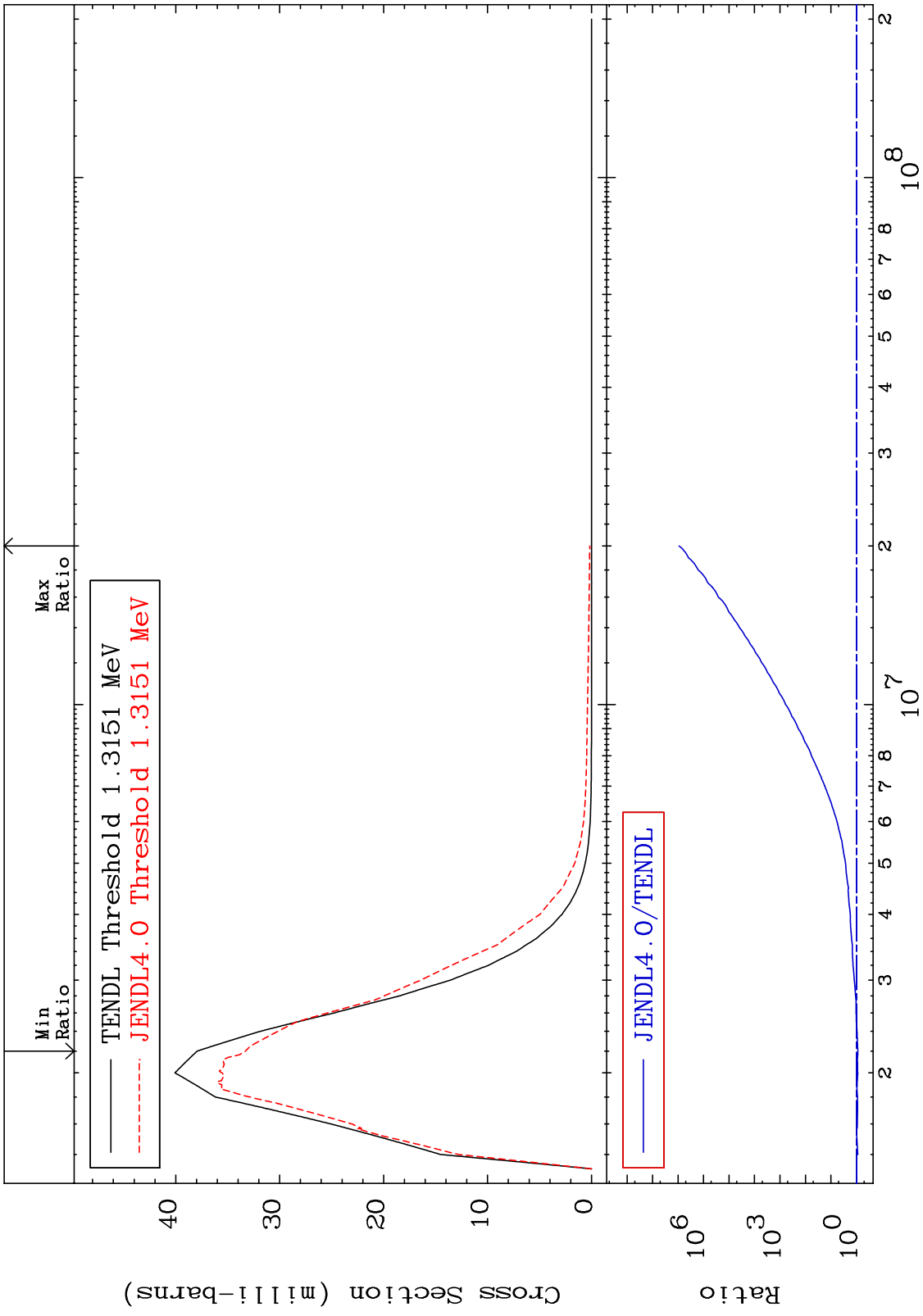
MAT 6028 MT= 51 (n,n') Level Cross Section 60-Nd-143
 -12.47 To 9999. %



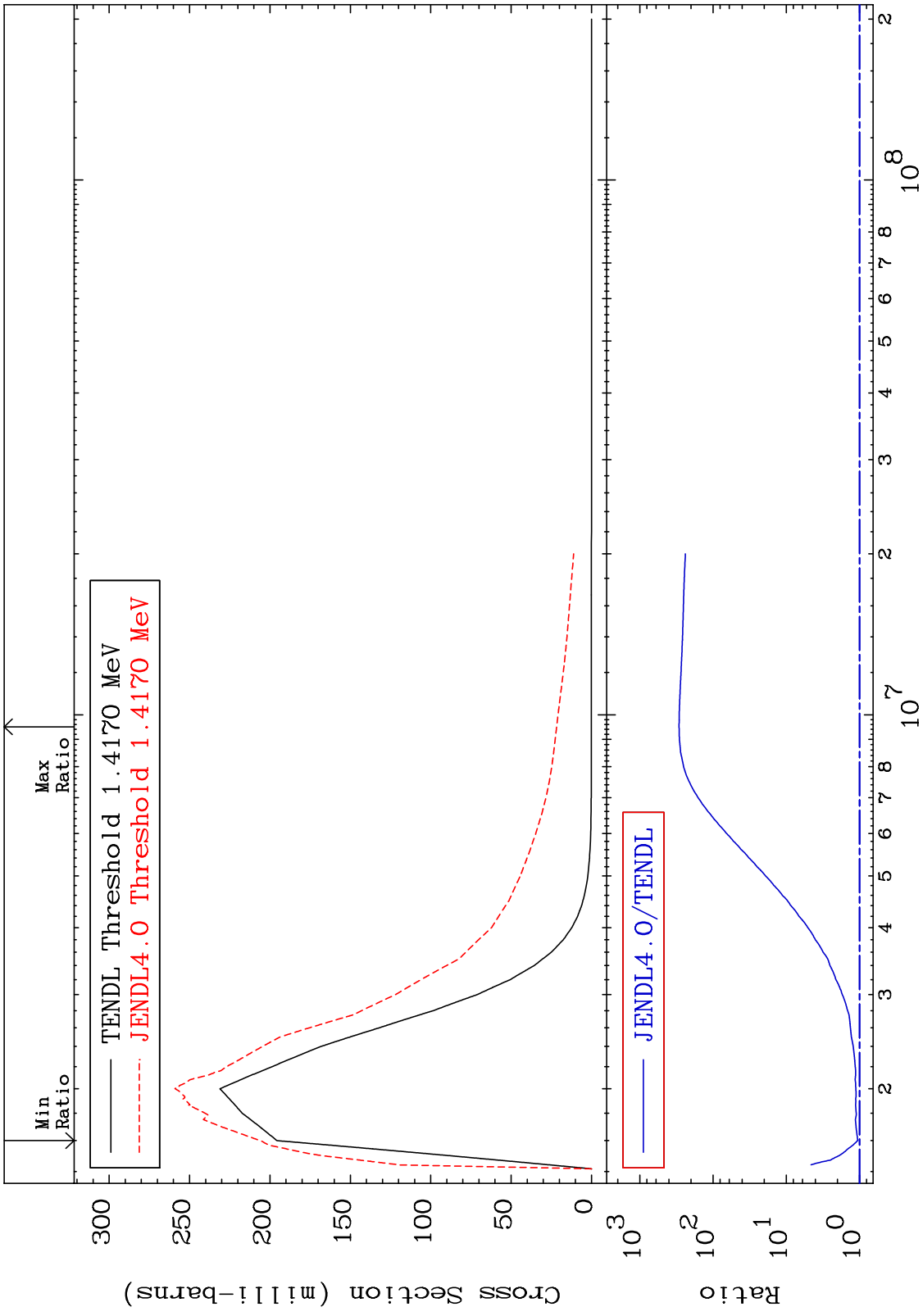
MAT 6028 MT= 52 (n,n') Level Cross Section 60-Nd-143
 -8.594 To 919.1 %



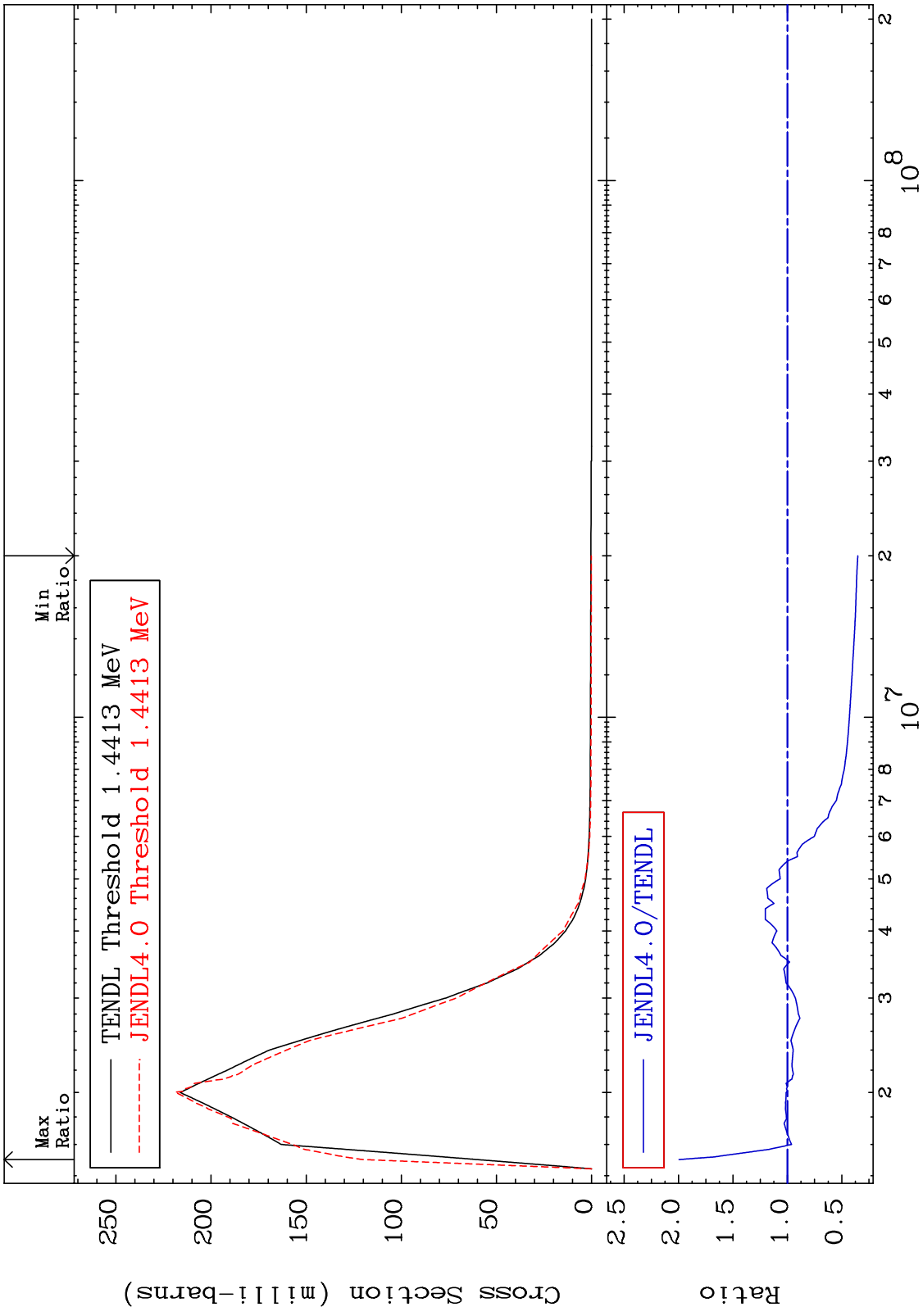
MAT 6028 MT= 53 (n,n') Level Cross Section 60-Nd-143
 -12.24 To 9999. %



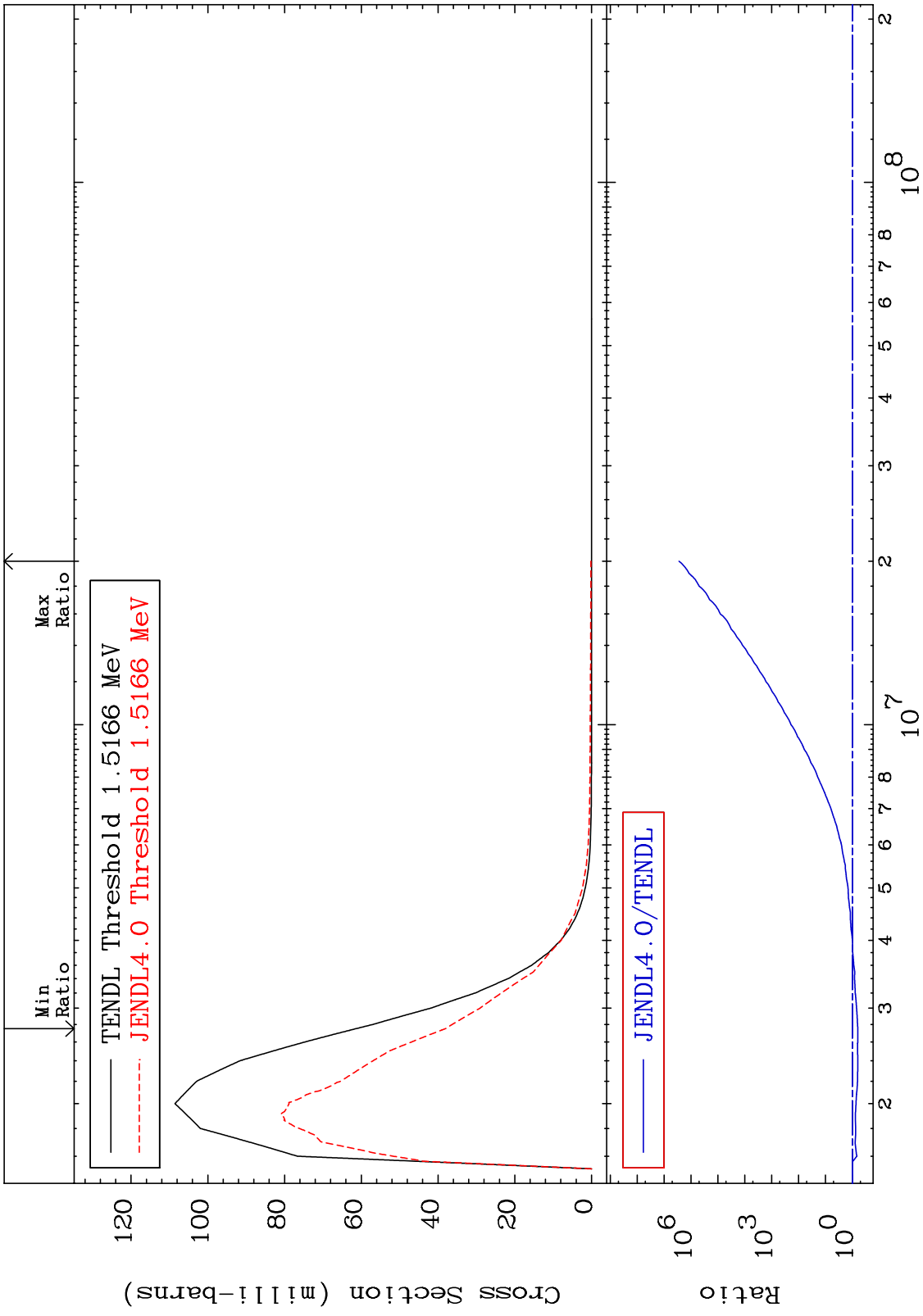
MAT 6028 MT= 54 (n,n') Level Cross Section 60-Nd-143 To 9999. %



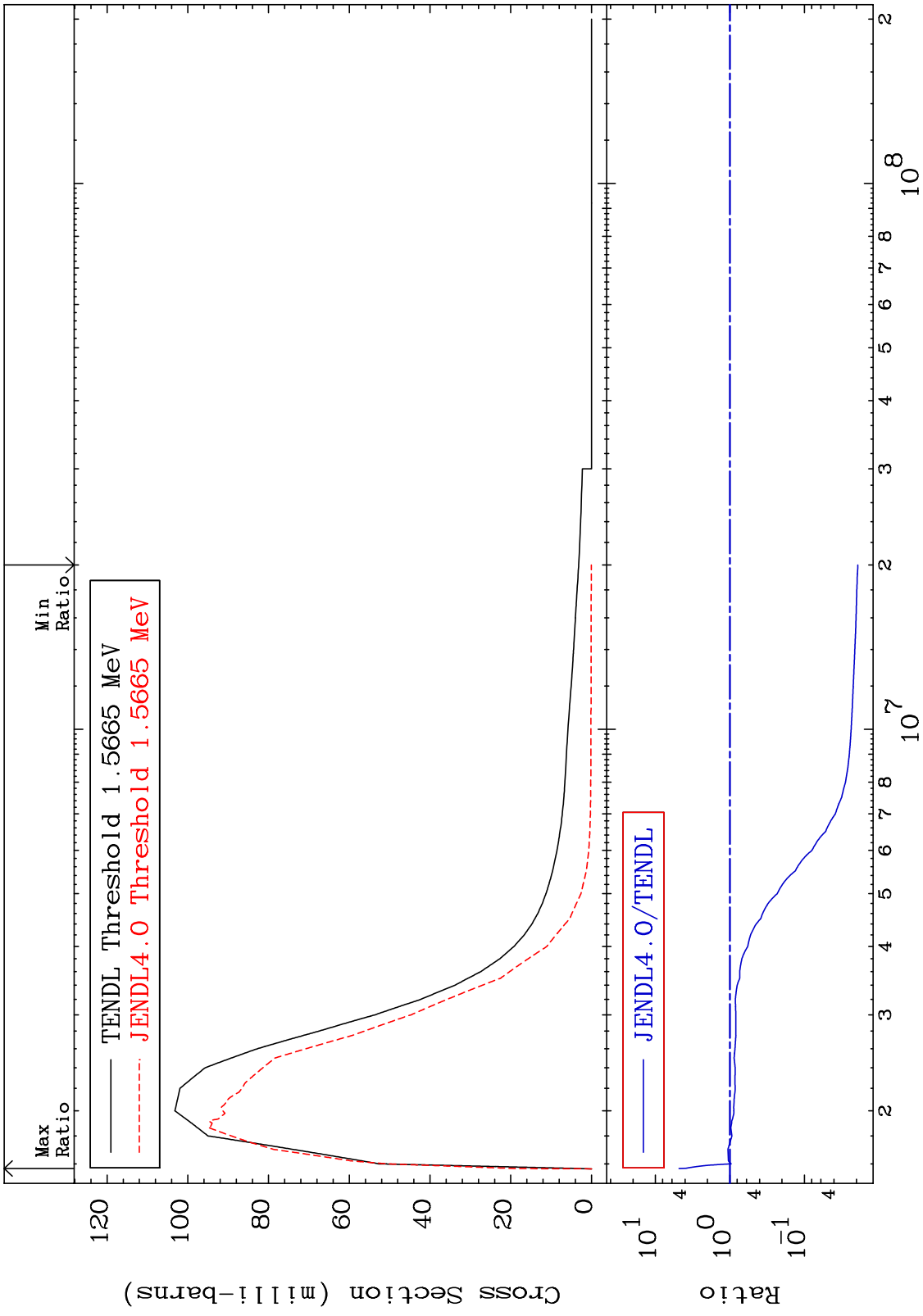
MAT 6028 MT= 55 (n,n') Level Cross Section 60-Nd-143
 -64.72 To 99.56 %



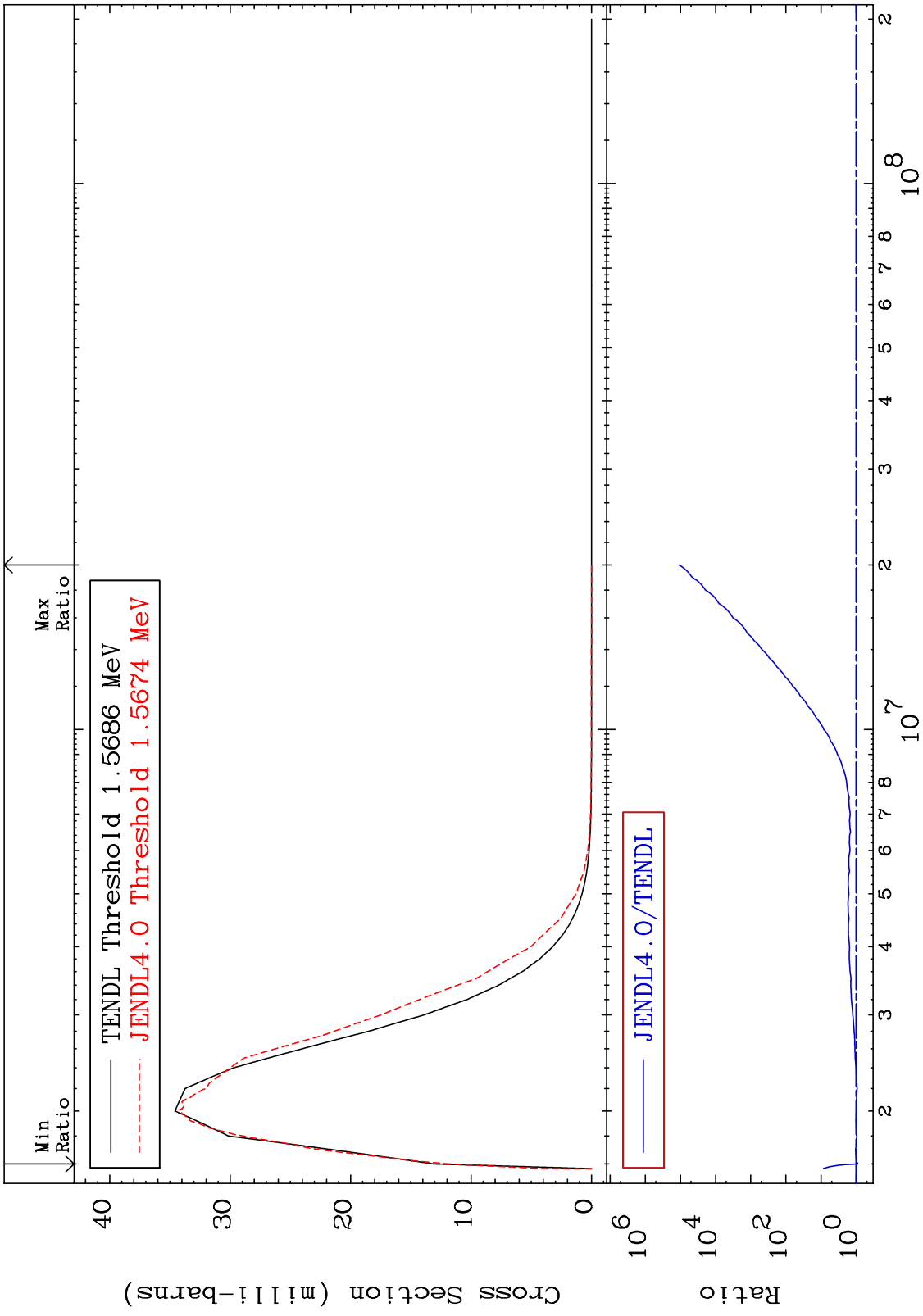
MAT 6028 MT= 56 (n,n') Level Cross Section 60-Nd-143
 -37.93 To 9999. %



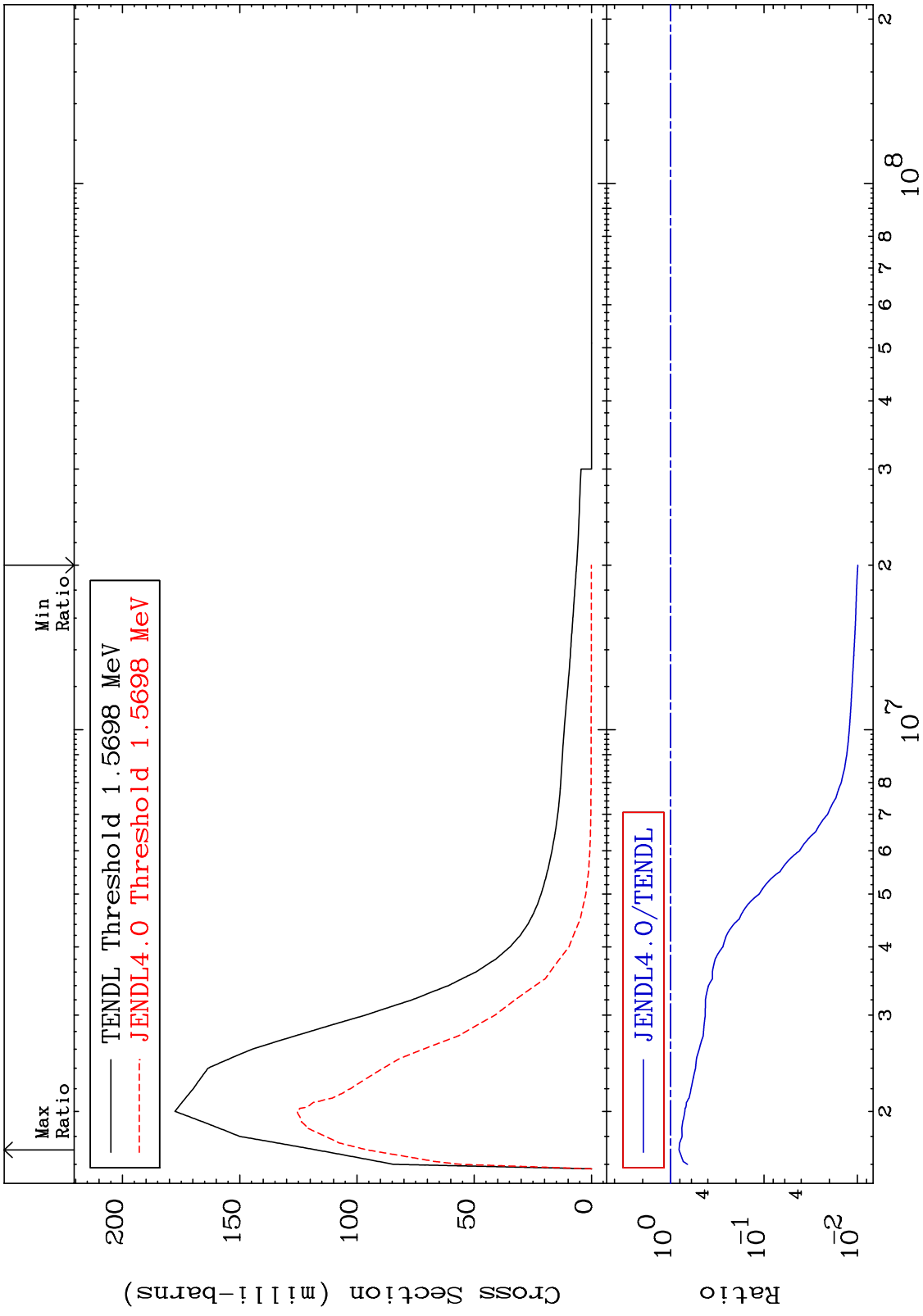
MAT 6028 MT= 57 (n,n') Level Cross Section 60-Nd-143 -98.08 To 381.7 %



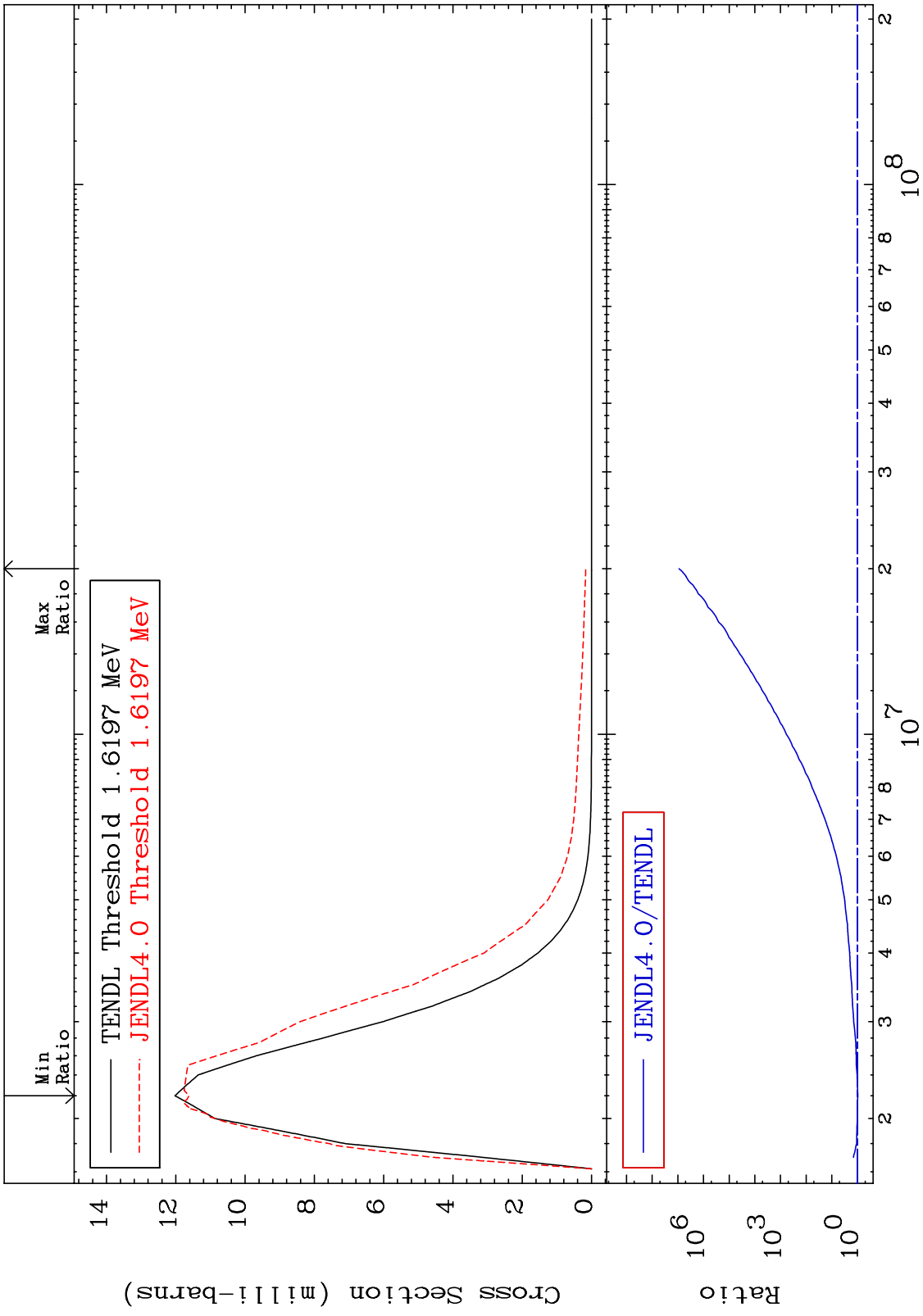
MAT 6028 MT= 58 (n,n') Level Cross Section 60-Nd-143 -9.576 To 9999. %



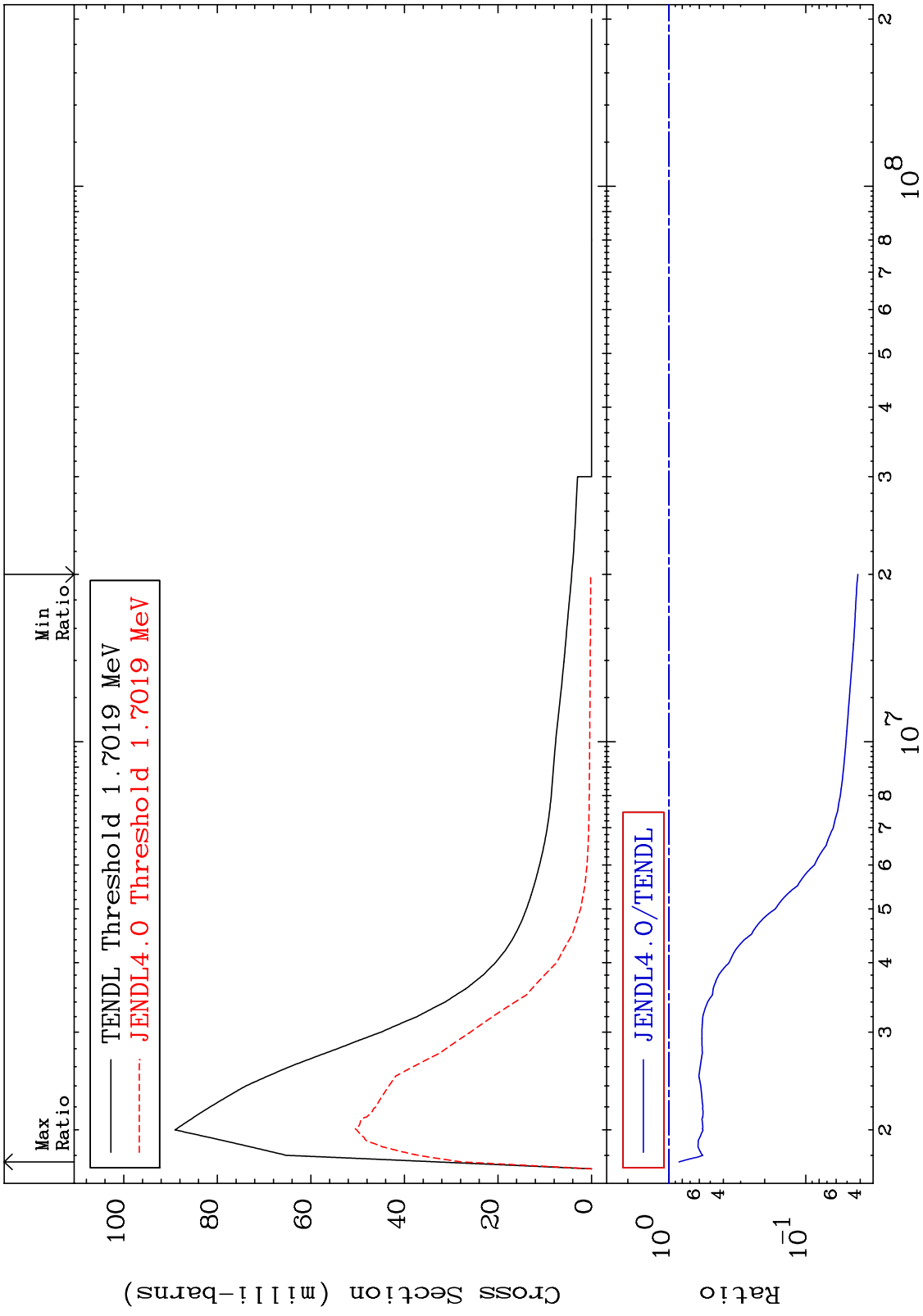
MAT 6028 MT= 59 (n,n') Level Cross Section 60-Nd-143 -99.01 To -18.46%



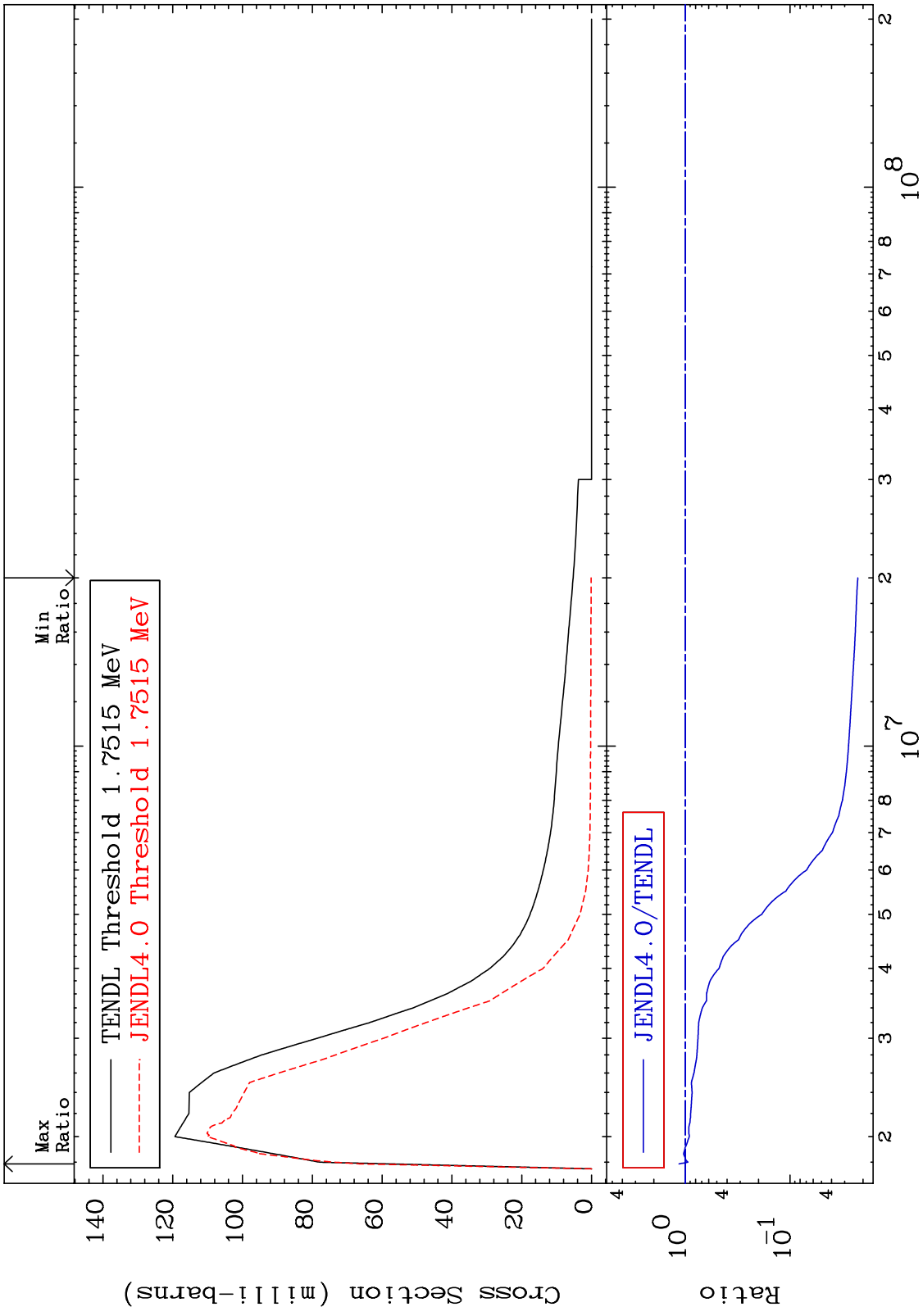
MAT 6028 MT= 60 (n,n') Level Cross Section 60-Nd-143
 -3.379 To 9999. %



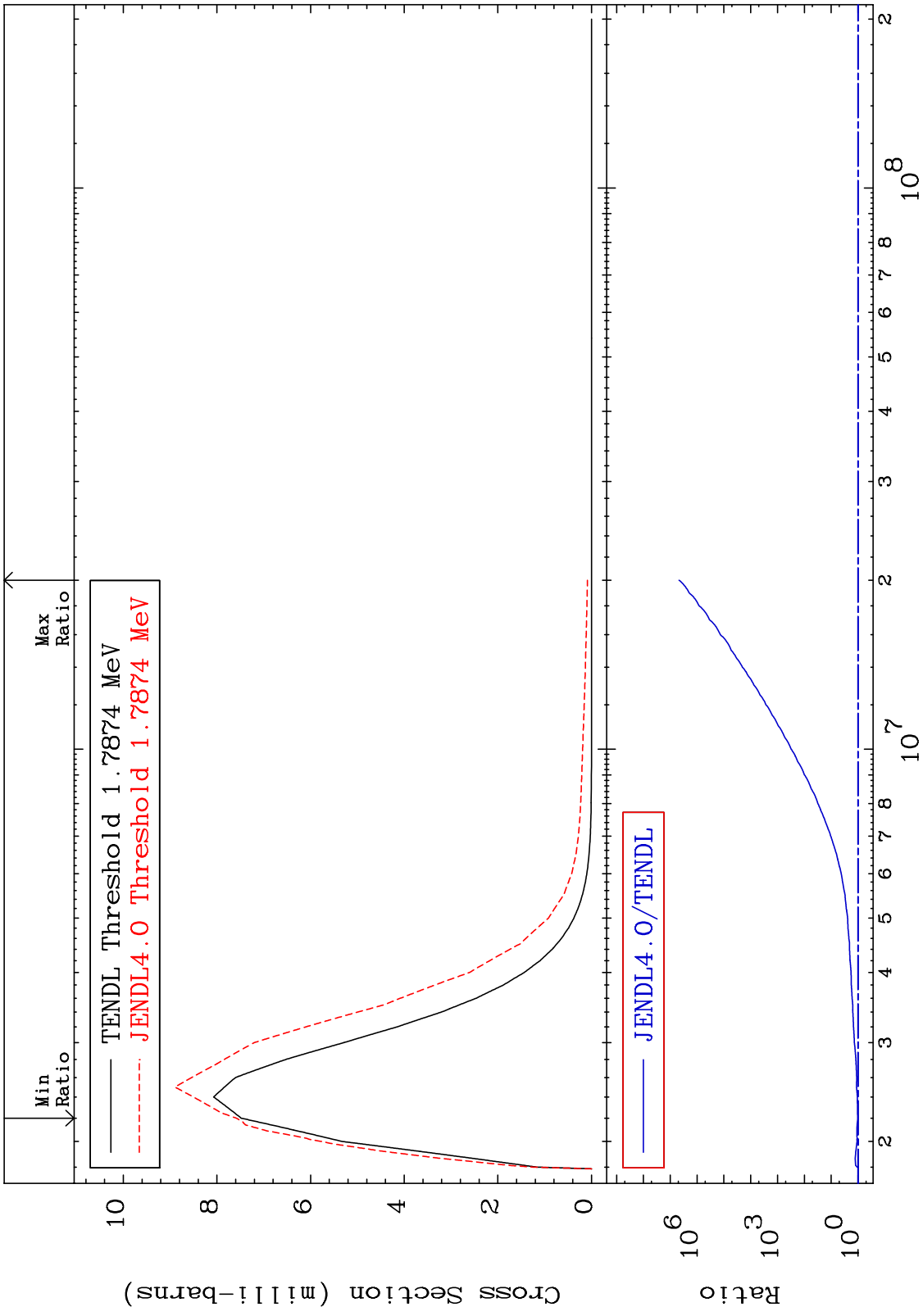
MAT 6028 MT= 61 (n,n') Level Cross Section 60-Nd-143 -95.83 To -15.57%



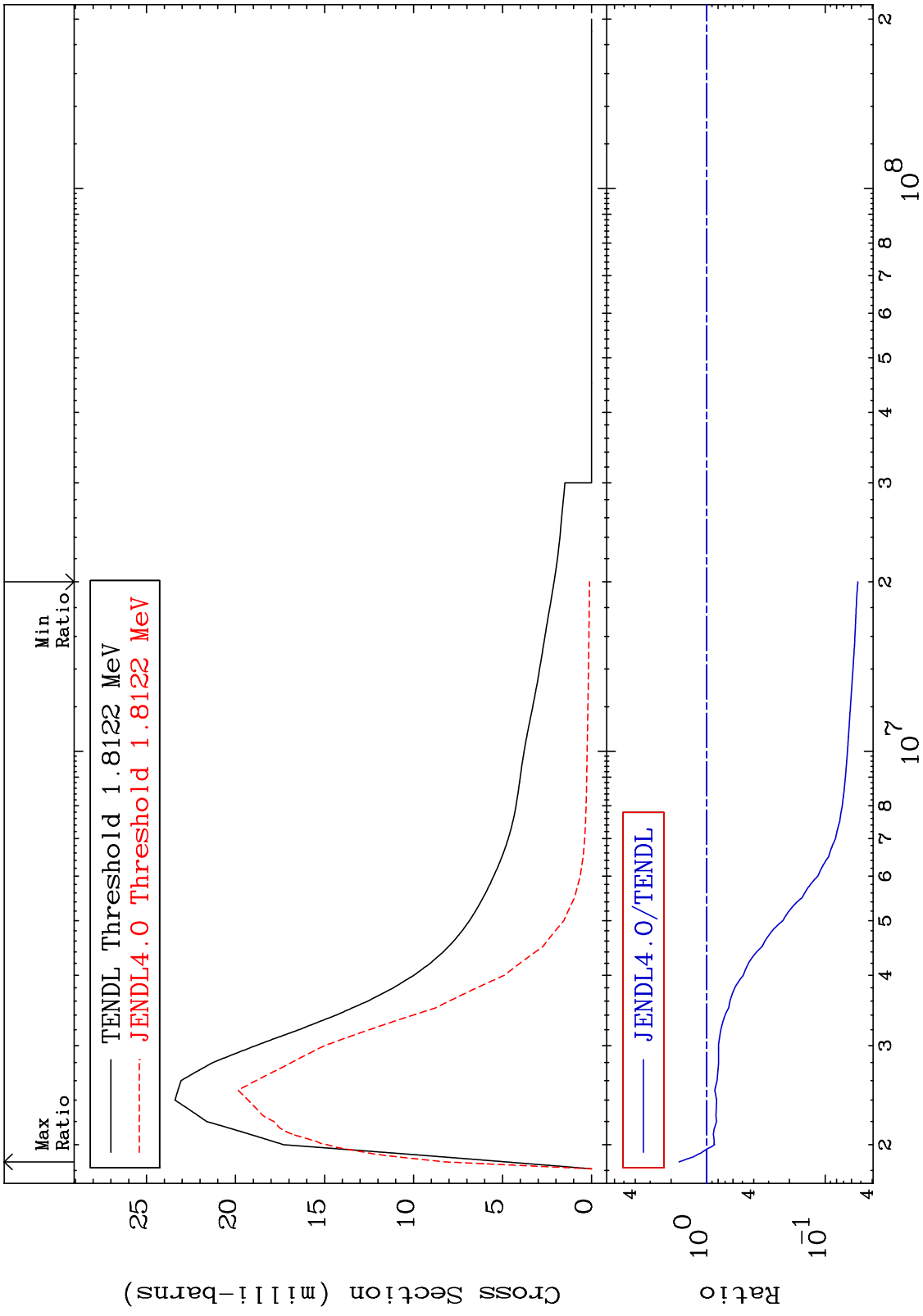
MAT 6028 MT= 62 (n,n') Level Cross Section 60-Nd-143
 -97.76 To 15.07 %



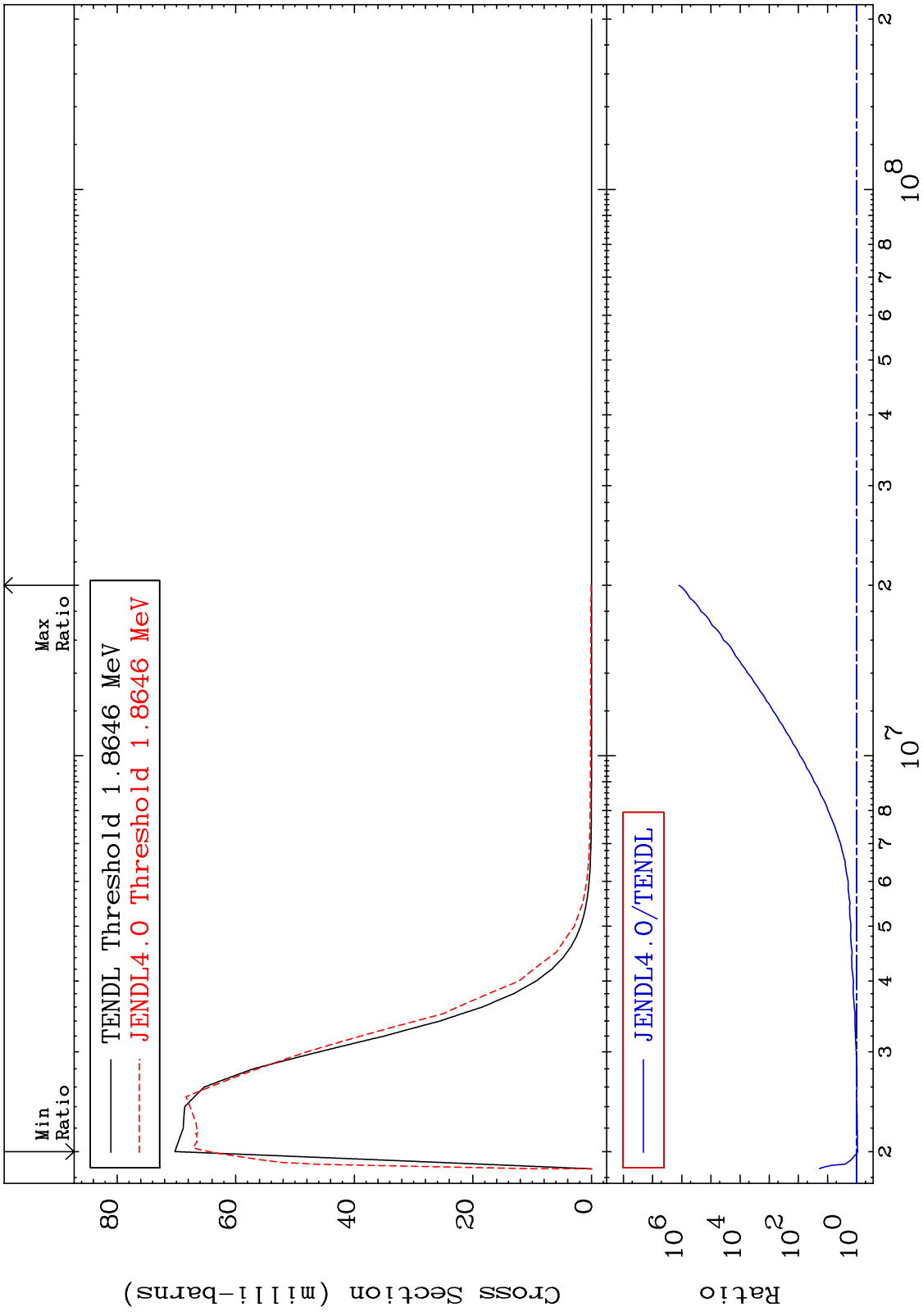
MAT 6028 MT= 63 (n,n') Level Cross Section 60-Nd-143
 1.376 To 9999. %



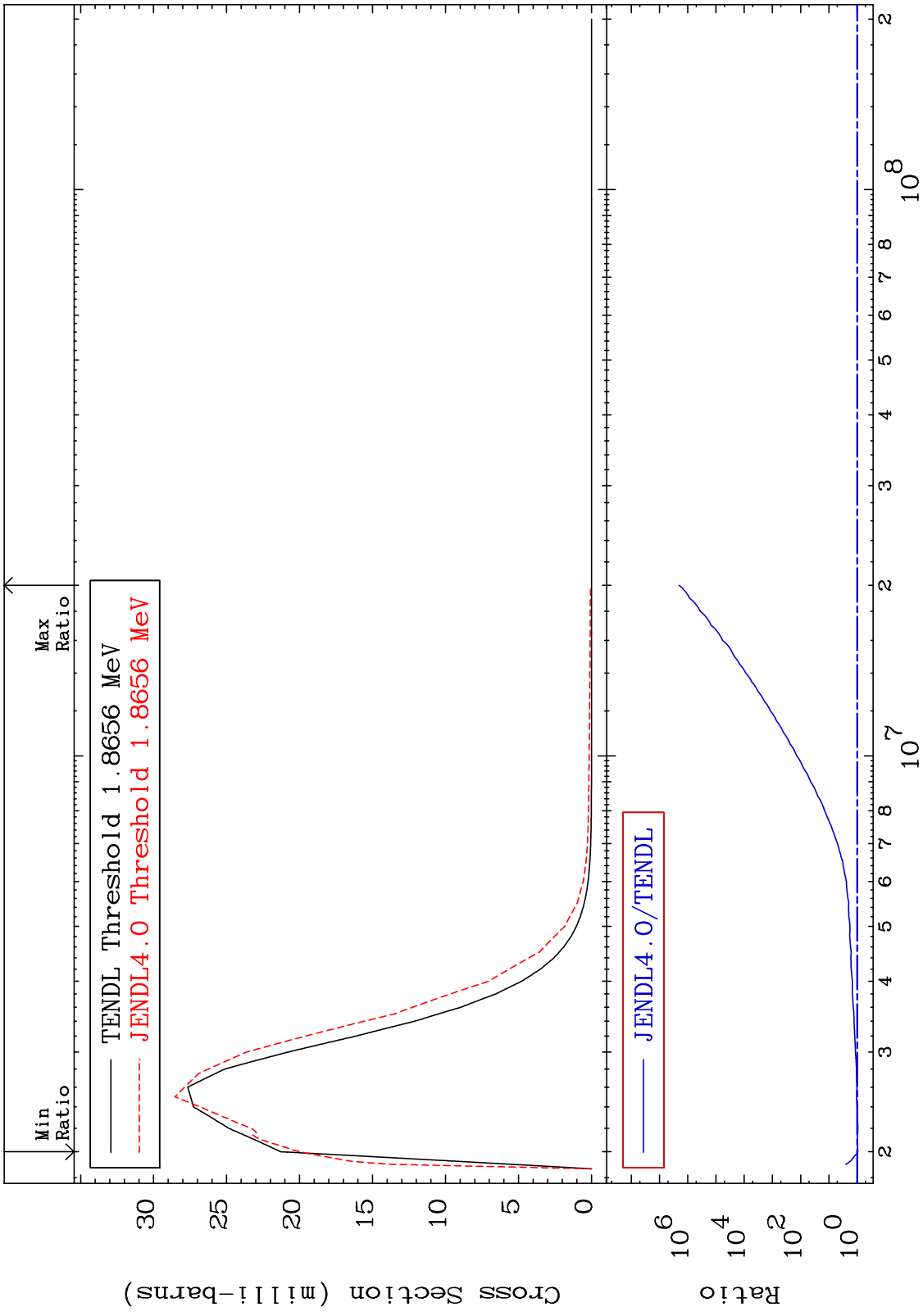
MAT 6028 MT= 64 (n,n') Level Cross Section 60-Nd-143
 -94.70 To 71.04 %



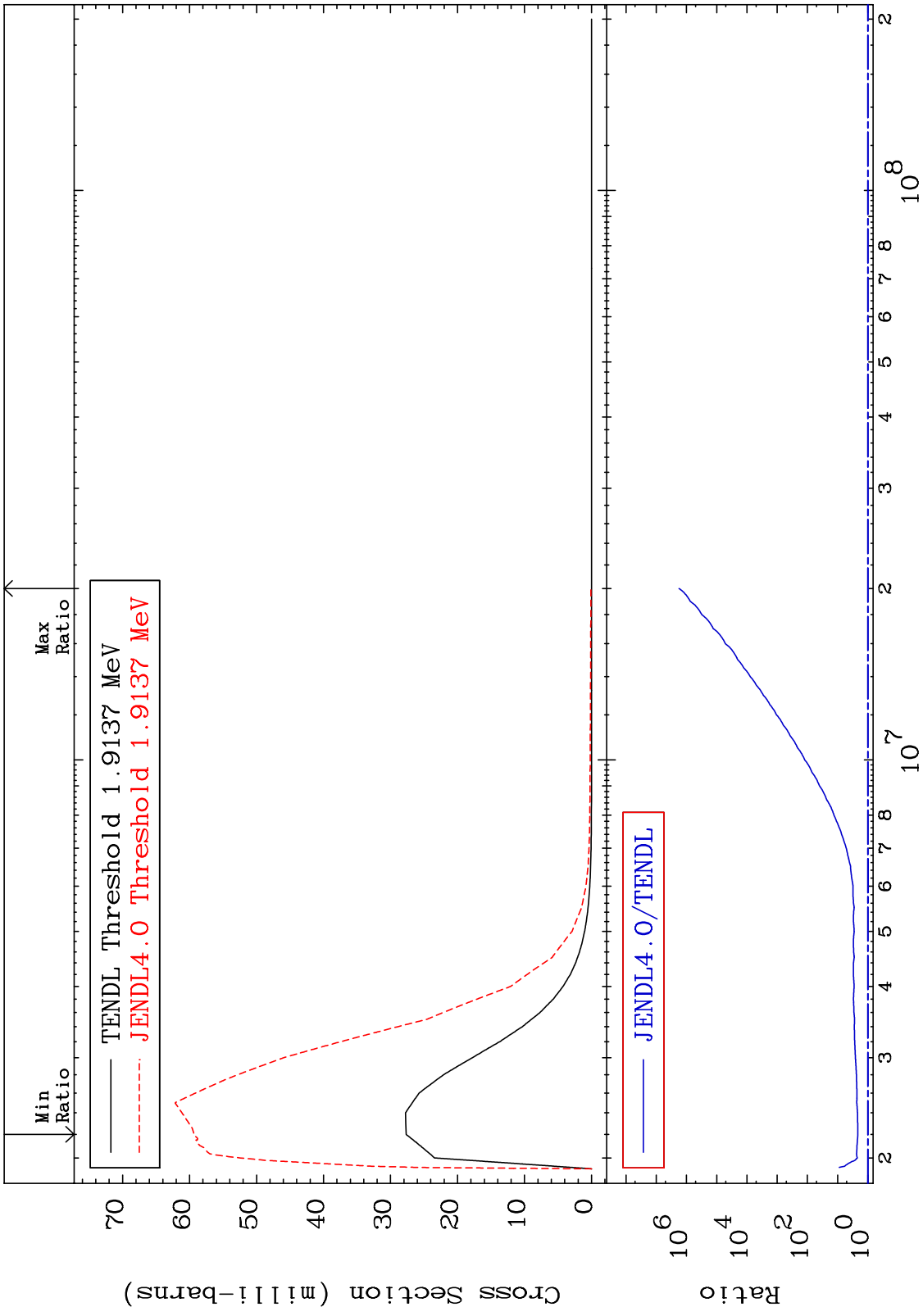
MAT 6028 MT= 65 (n,n') Level Cross Section 60-Nd-143
 -8.137 To 9999. %



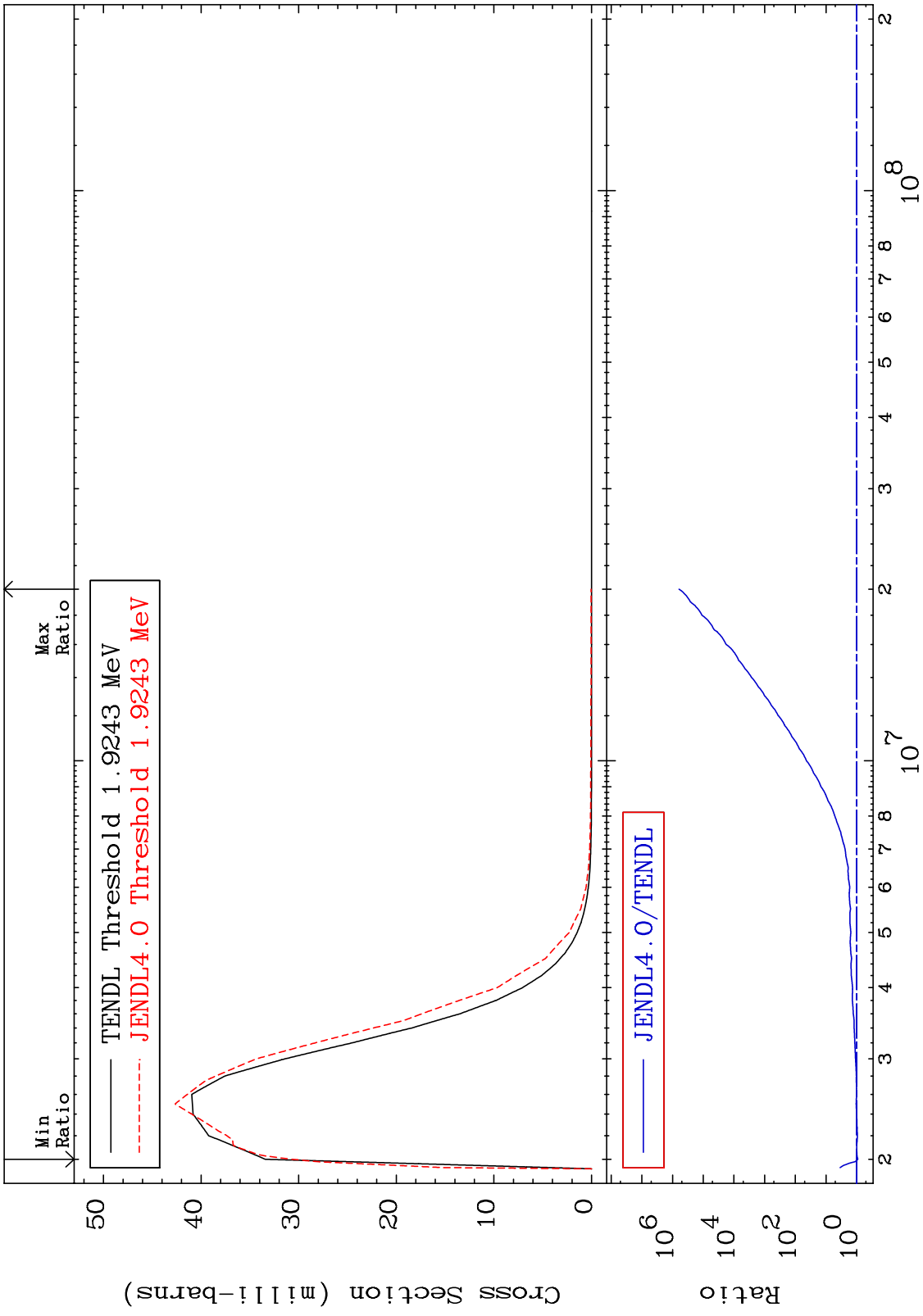
MAT 6028 MT= 66 (n,n') Level Cross Section 60-Nd-143 -6.242 To 9999. %



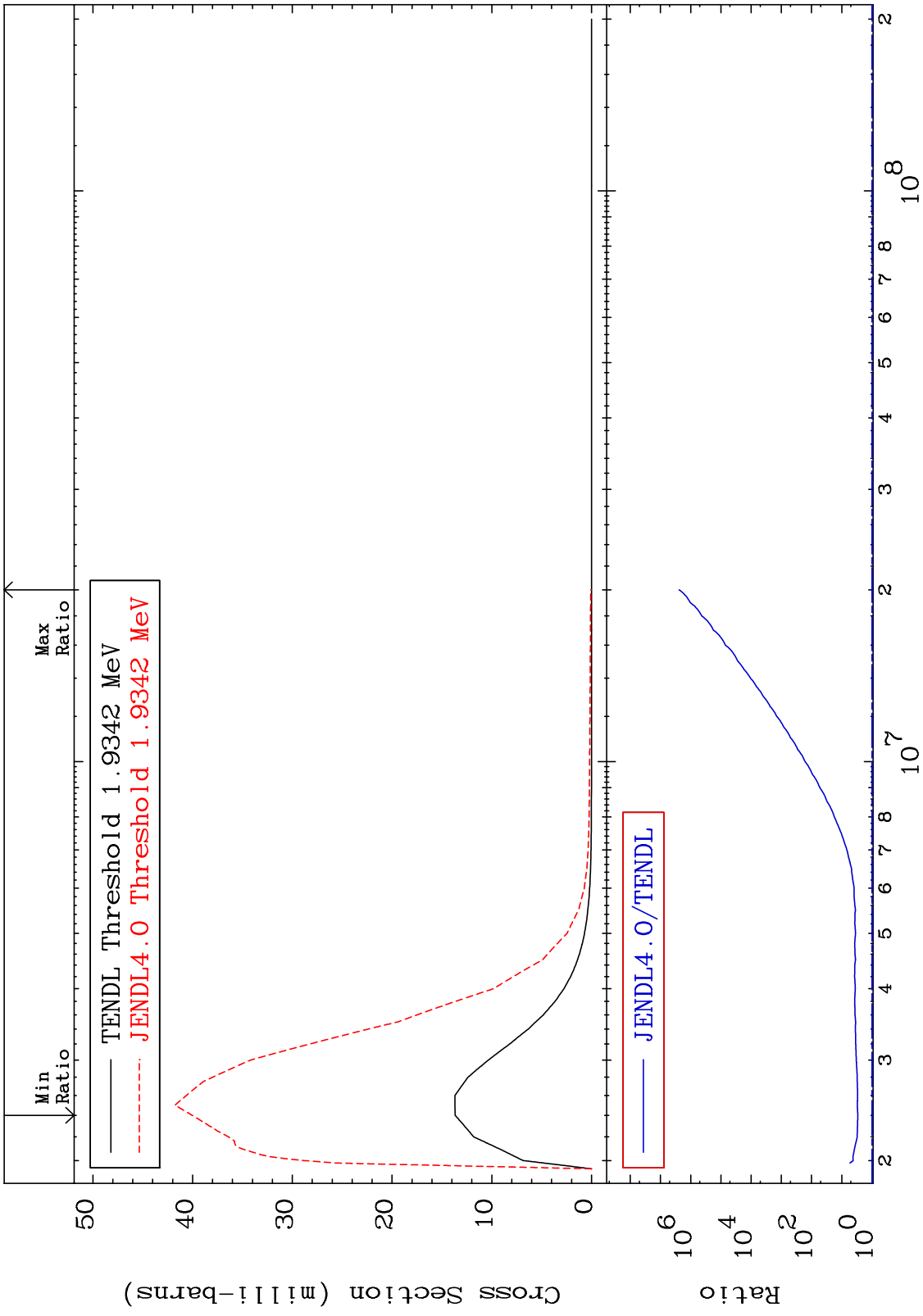
MAT 6028 MT= 67 (n,n') Level Cross Section 60-Nd-143
 114.4 To 9999. %



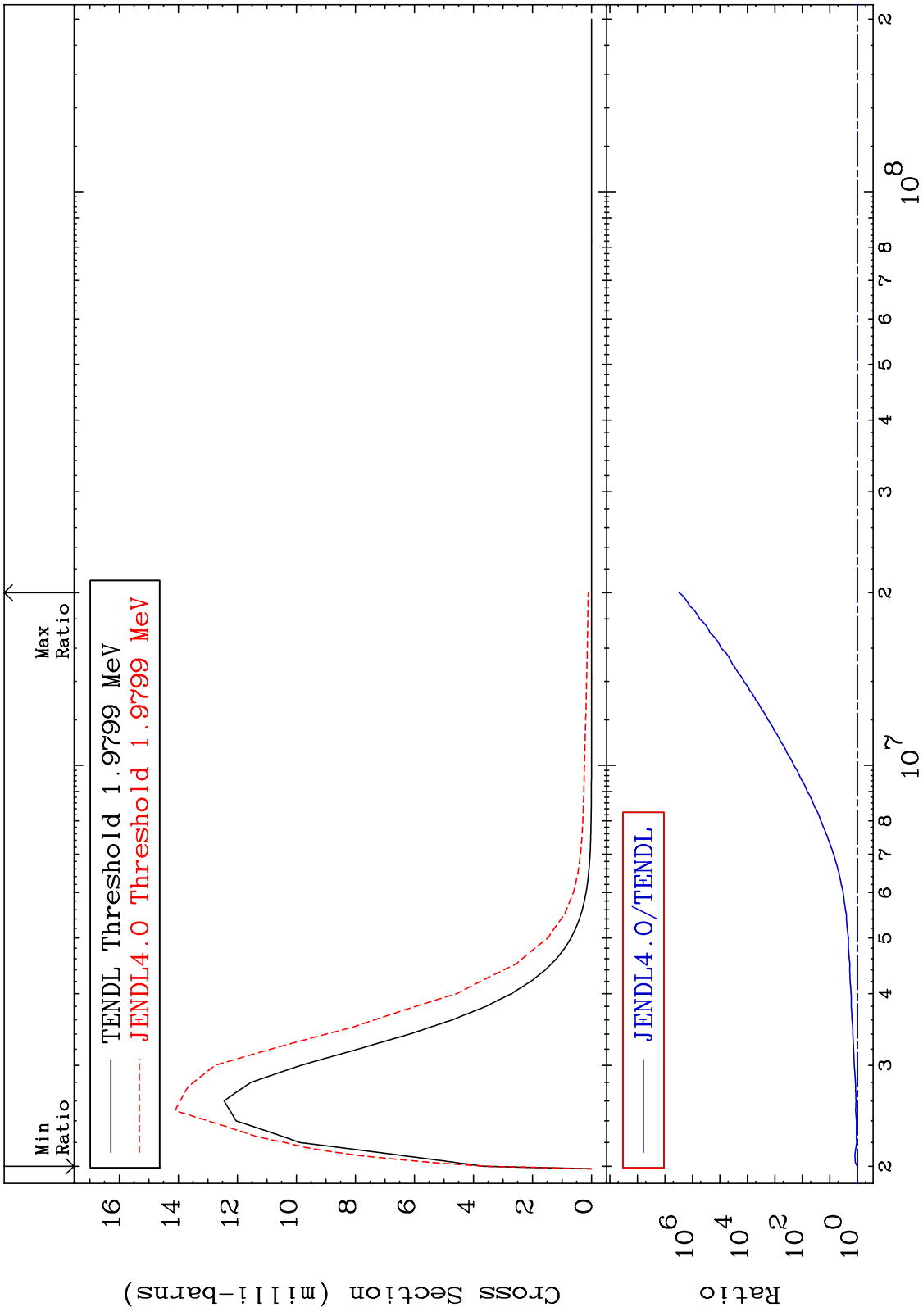
MAT 6028 MT= 68 (n,n') Level Cross Section 60-Nd-143
 -8.158 To 9999. %



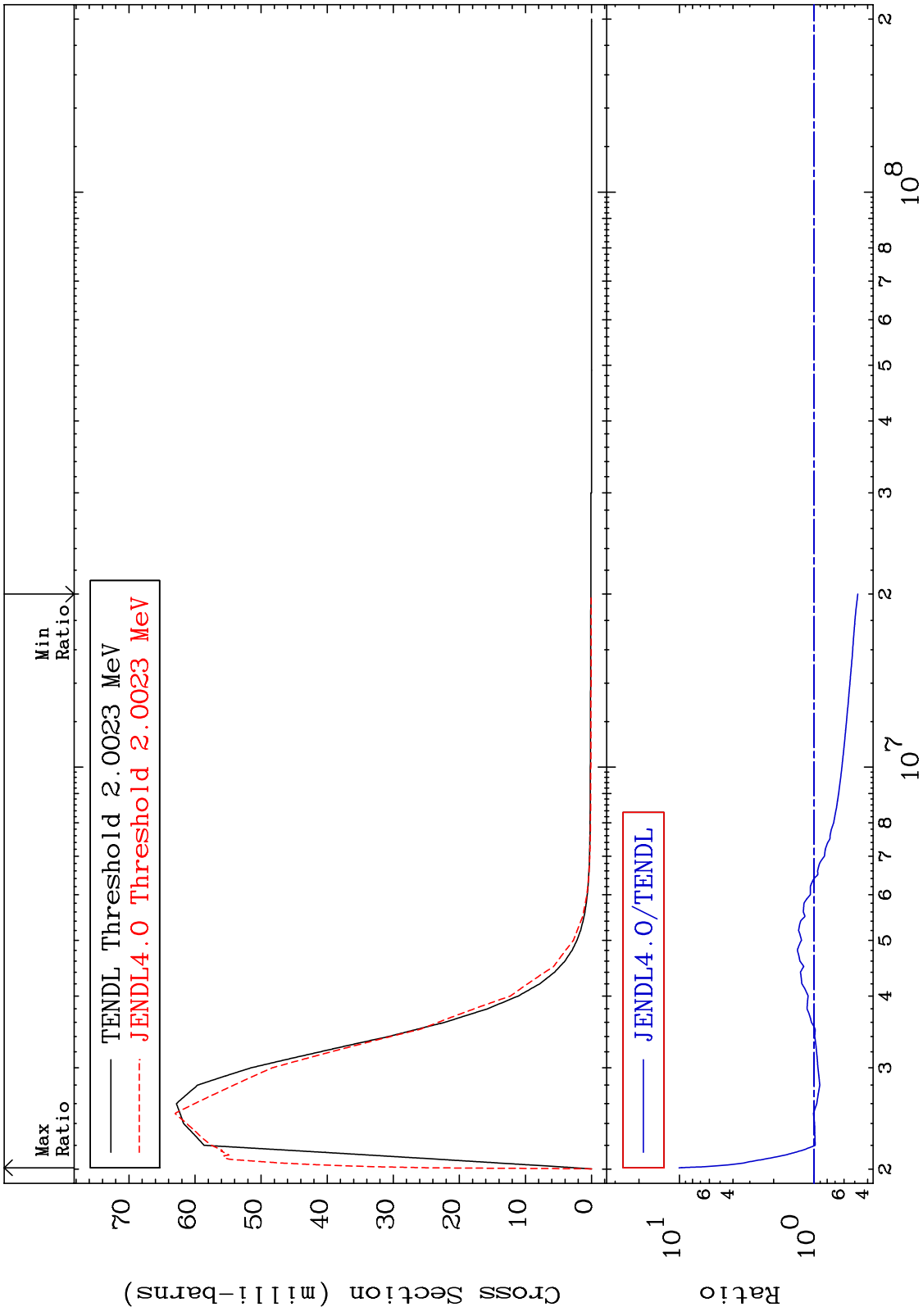
MAT 6028 MT= 69 (n,n') Level Cross Section 60-Nd-143
 192.8 To 9999. %



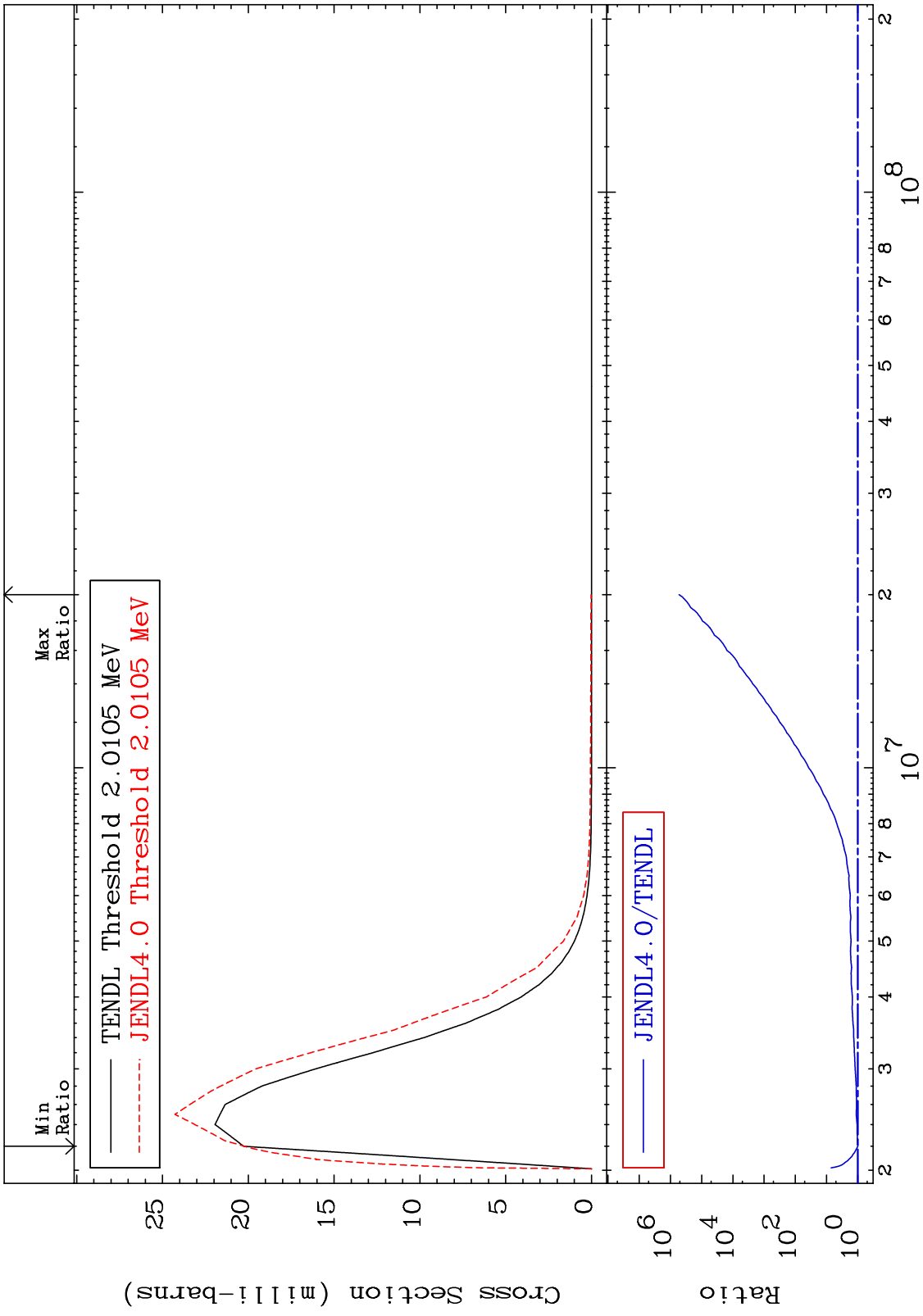
MAT 6028 MT= 70 (n,n') Level Cross Section 60-Nd-143
 -4.110 To 9999. %



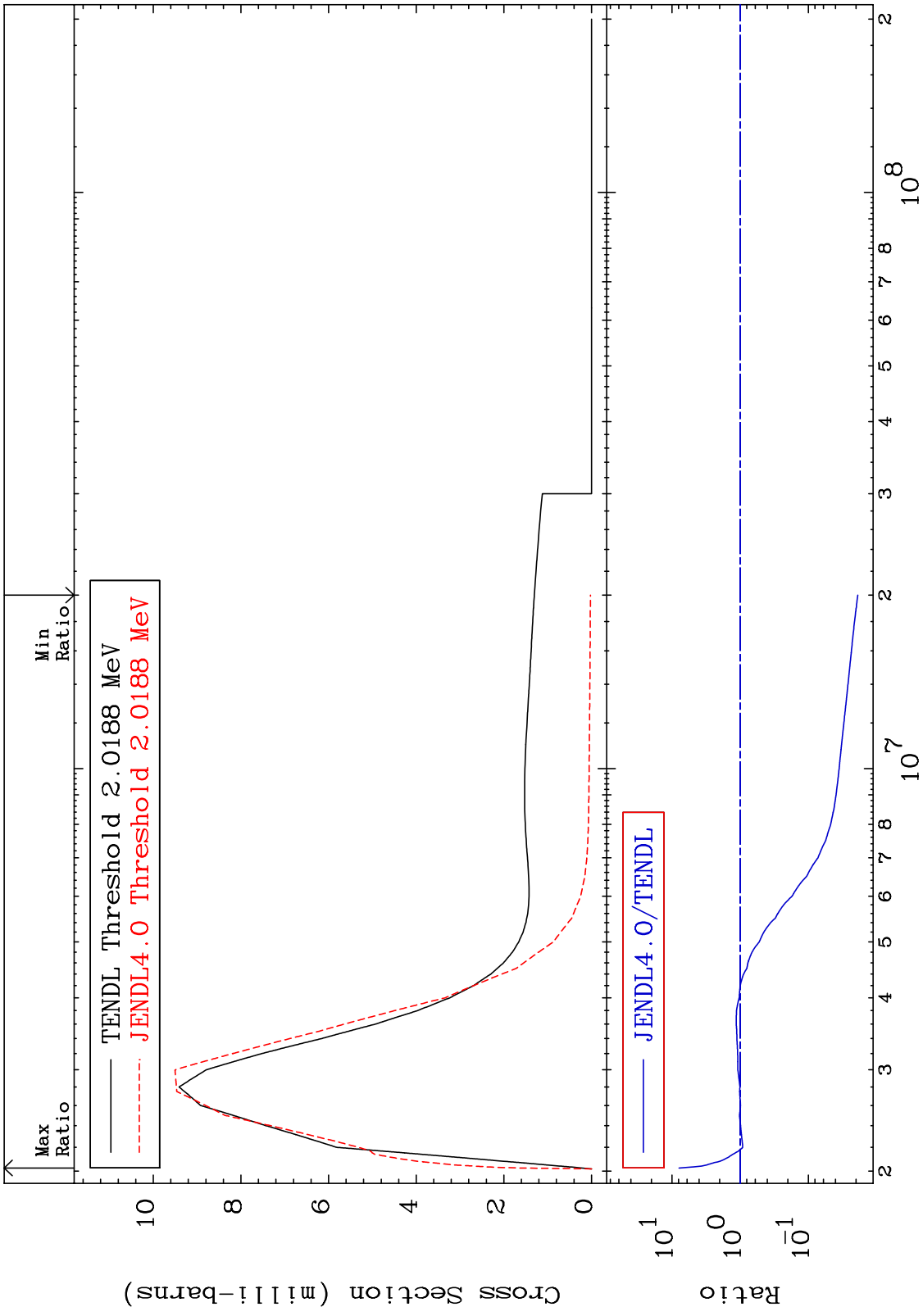
MAT 6028 MT= 71 (n,n') Level Cross Section 60-Nd-143
 -52.64 To 907.2 %



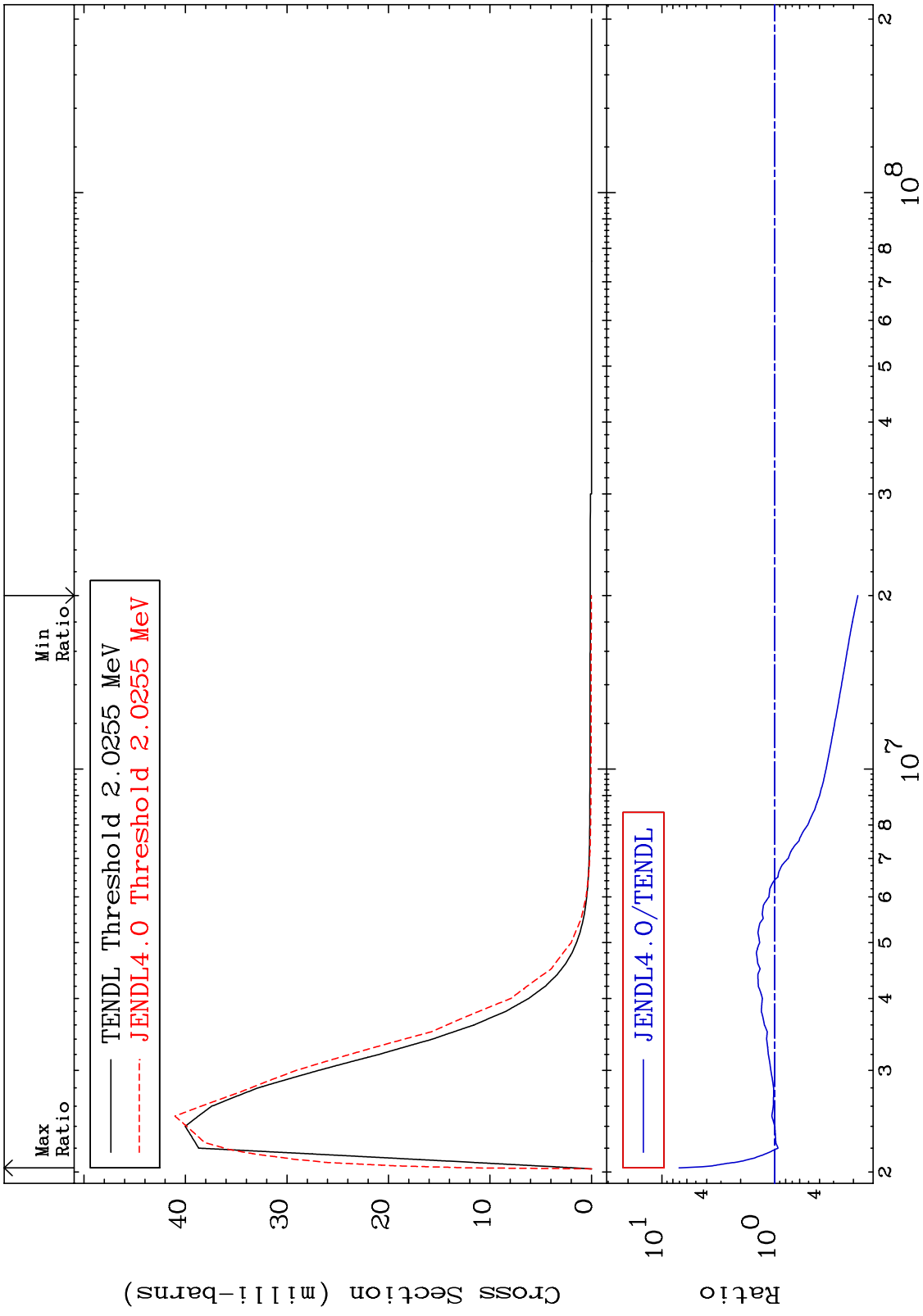
MAT 6028 MT= 72 (n,n') Level Cross Section 60-Nd-143
 -0.365 To 9999. %



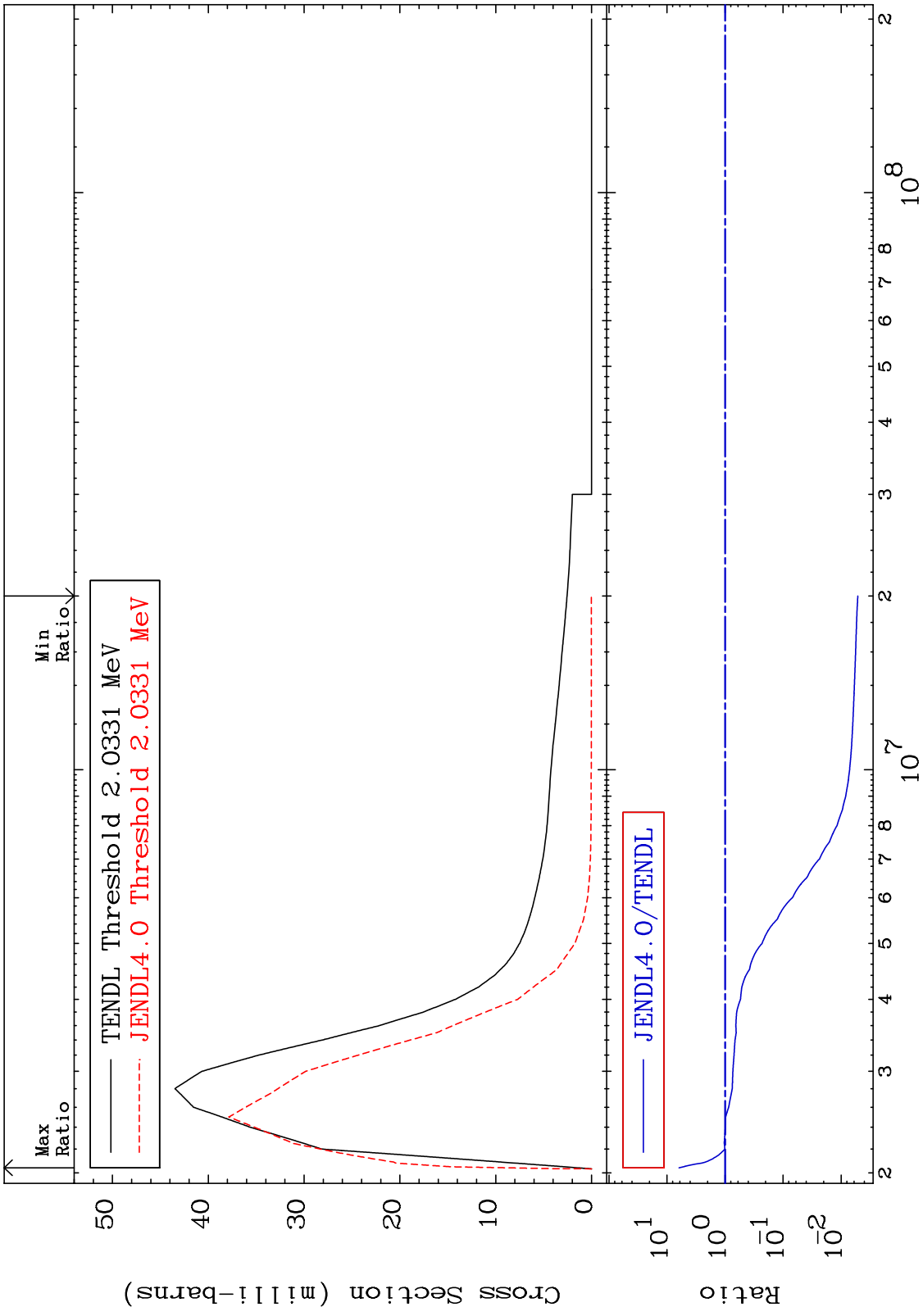
MAT 6028 MT= 73 (n,n') Level Cross Section 60-Nd-143 -98.11 To 685.4 %



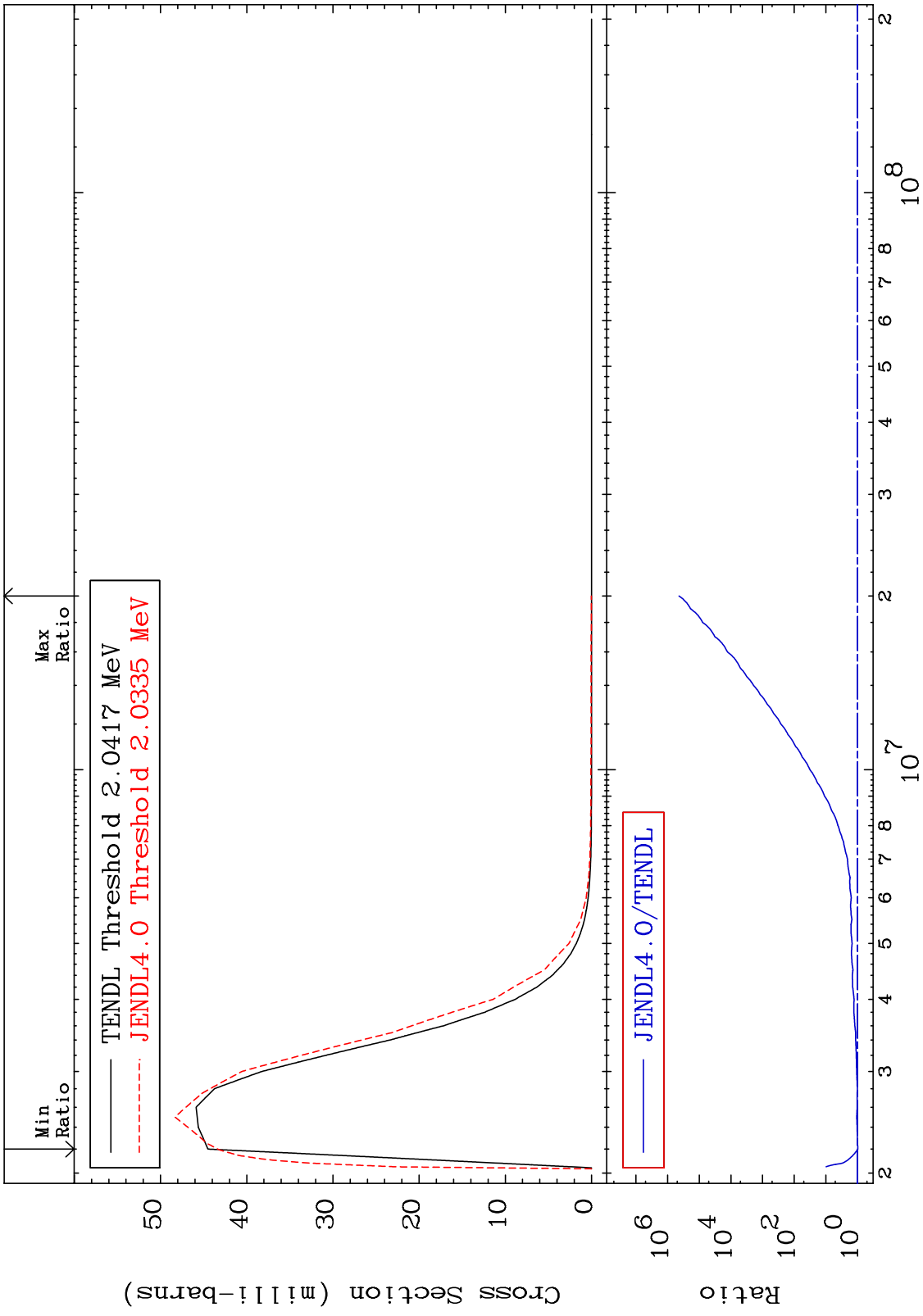
MAT 6028 MT= 74 (n,n') Level Cross Section 60-Nd-143
 -81.71 To 604.6 %



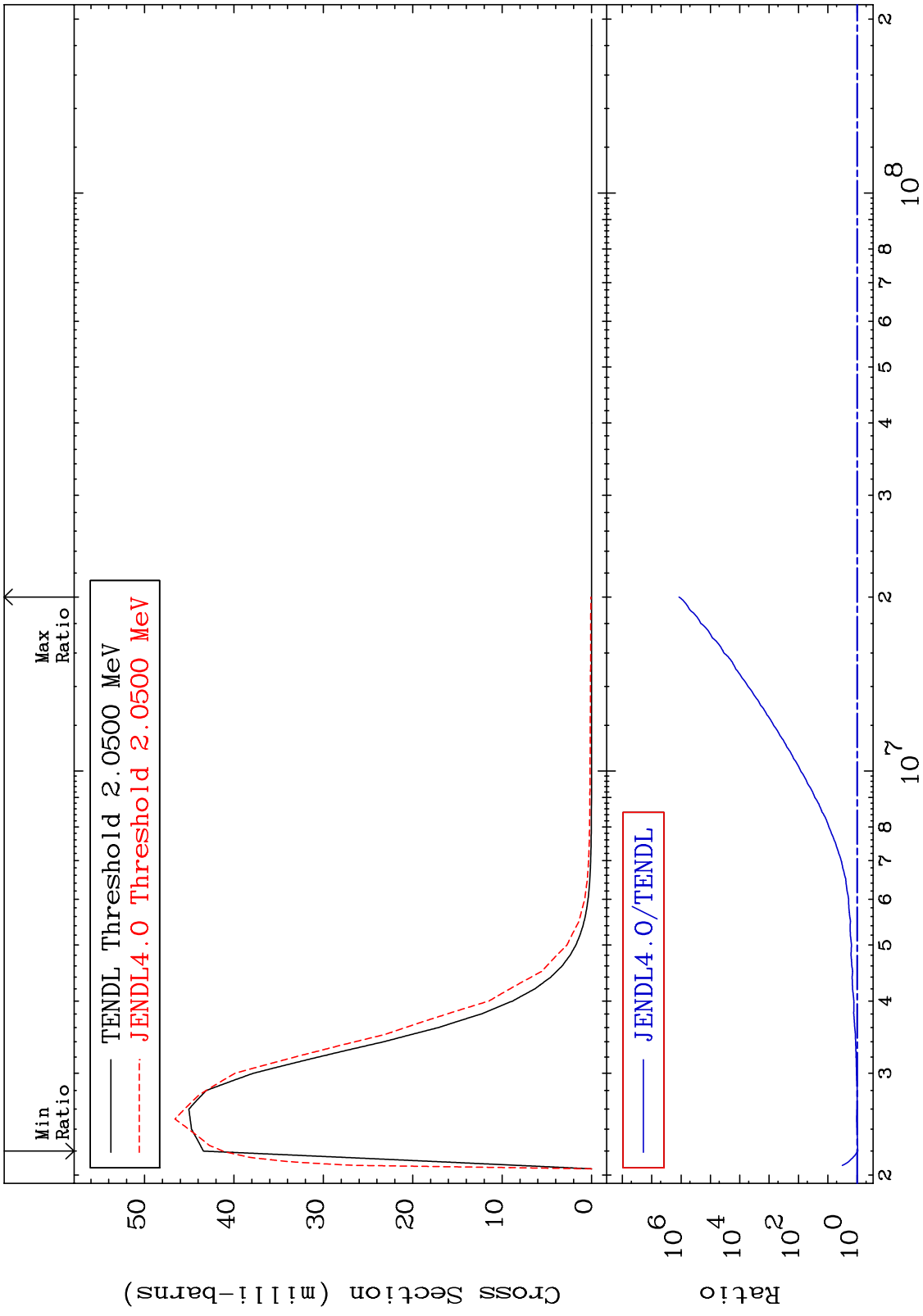
MAT 6028 MT= 75 (n,n') Level Cross Section 60-Nd-143
 -99.48 To 520.8 %



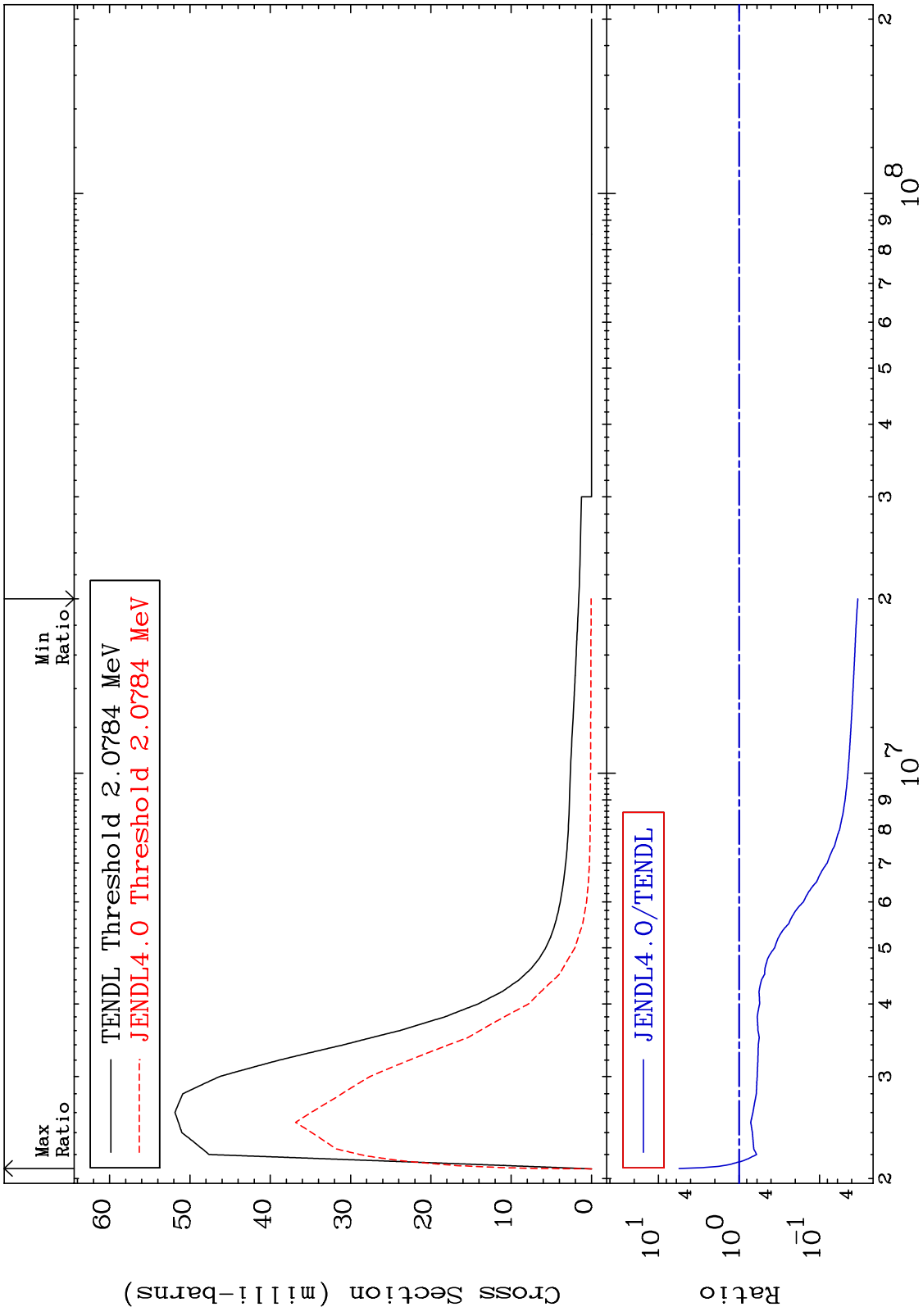
MAT 6028 MT= 76 (n,n') Level Cross Section 60-Nd-143
 -2.546 To 9999. %



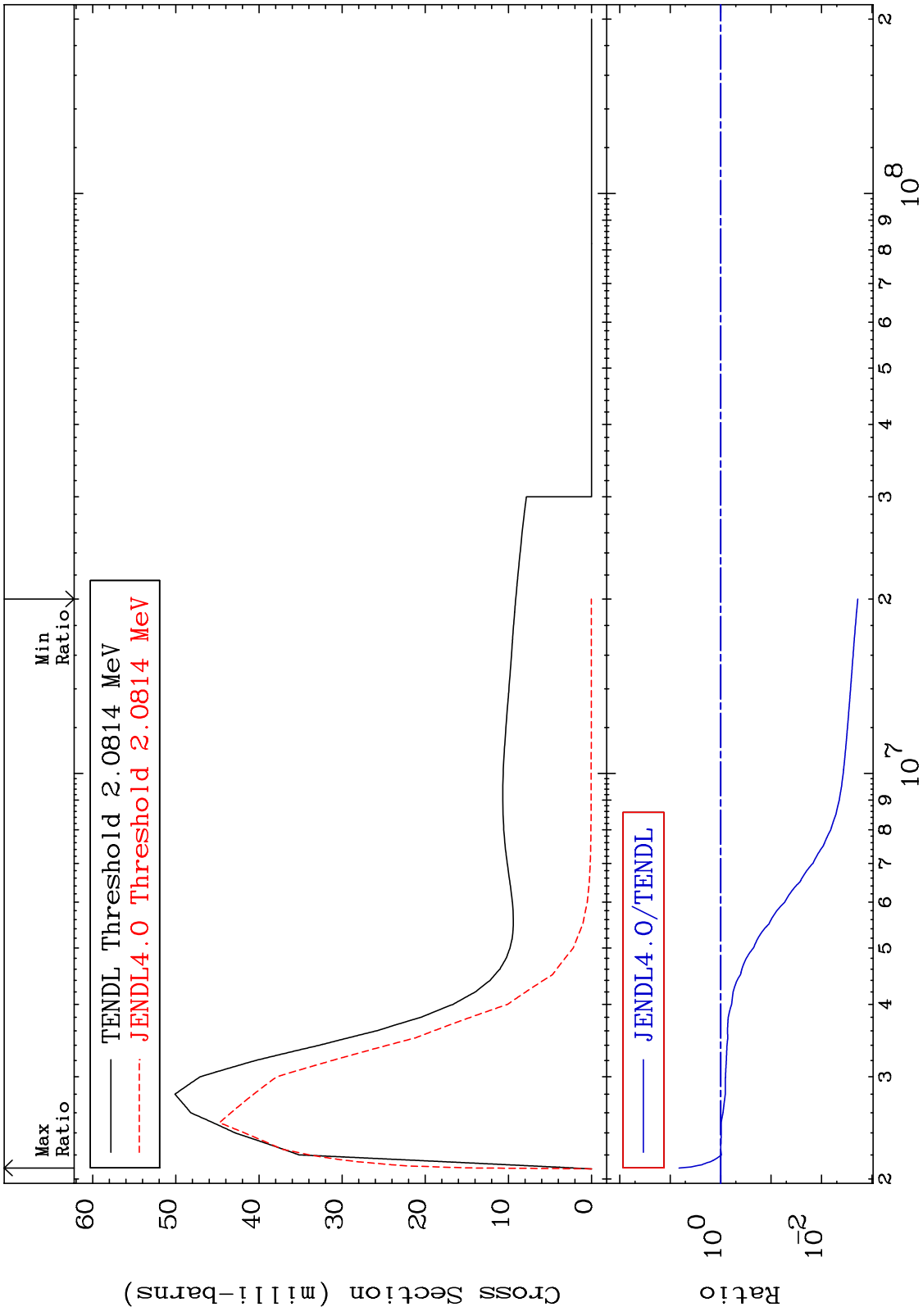
MAT 6028 MT= 77 (n,n') Level Cross Section 60-Nd-143
 -5.072 To 9999. %



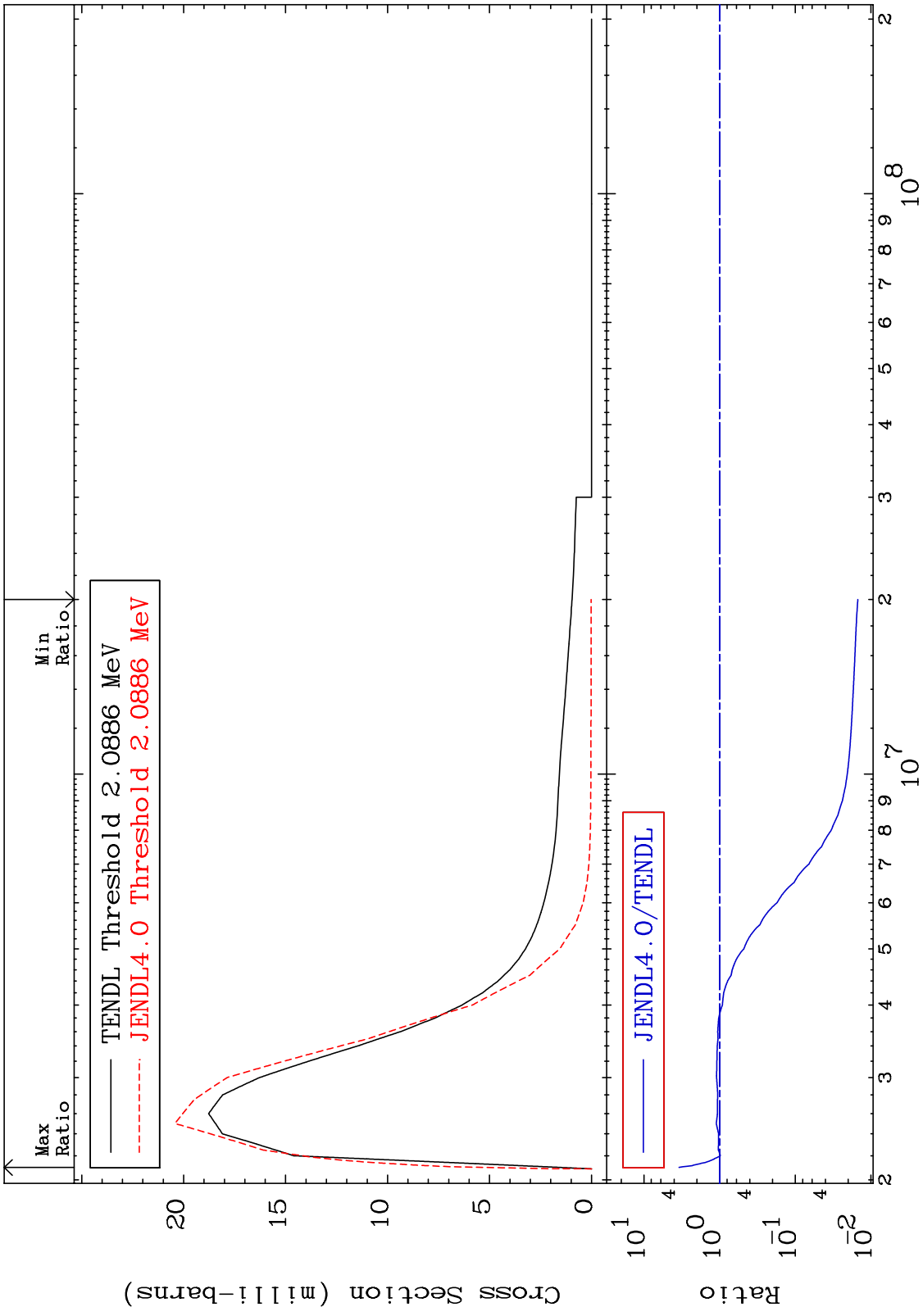
MAT 6028 MT= 78 (n,n') Level Cross Section 60-Nd-143
 -96.64 To 455.4 %



MAT 6028 MT= 79 (n,n') Level Cross Section 60-Nd-143
 -99.81 To 569.0 %



MAT 6028 MT= 80 (n,n') Level Cross Section 60-Nd-143
 -98.51 To 243.9 %

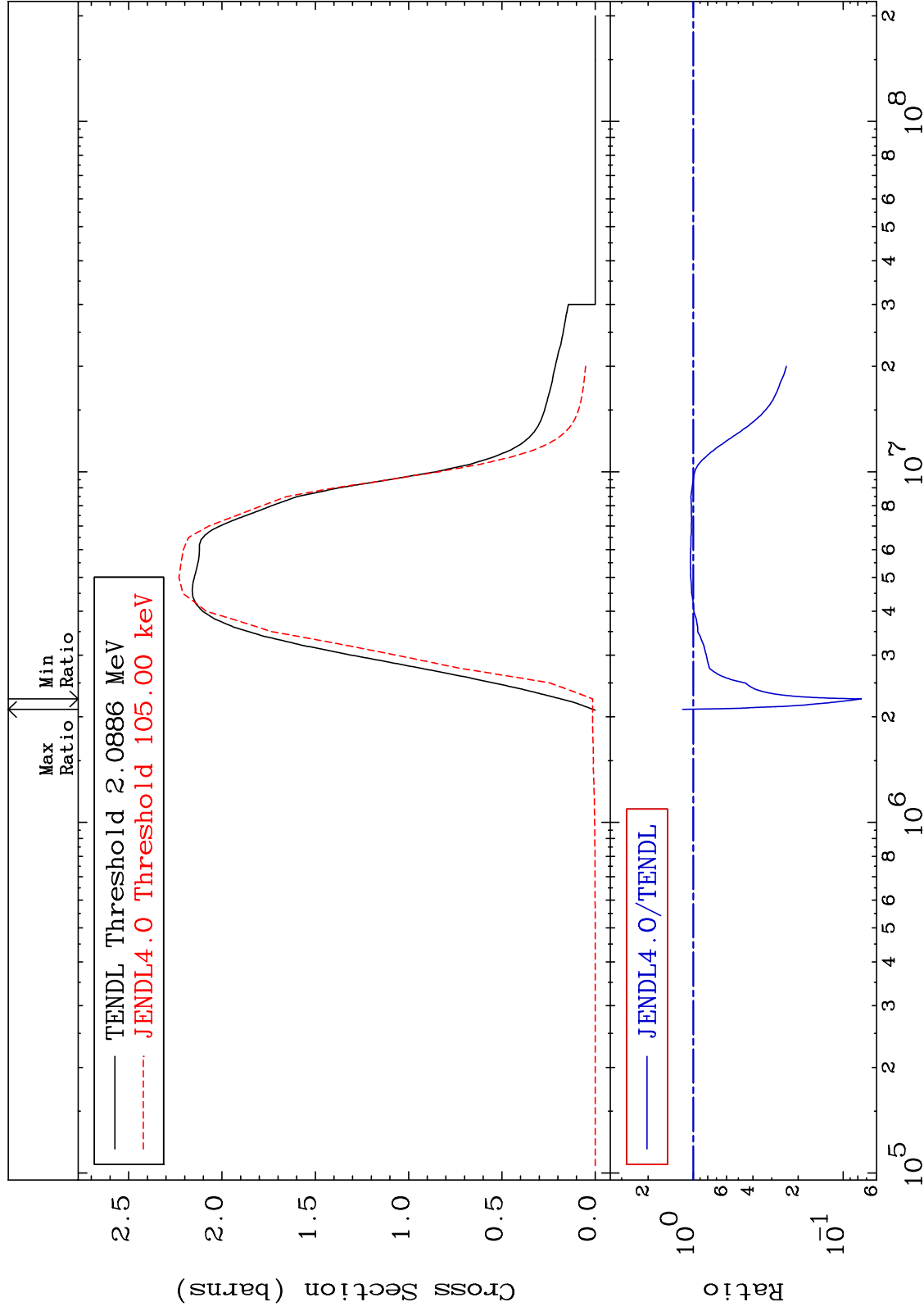


40 Incident Energy (eV) 60-Nd-143

MAT 6028

(n, n') Continuum
Cross Section

60-Nd-143
-92.43 To 17.55 %



41

Incident Energy (eV)

60-Nd-143

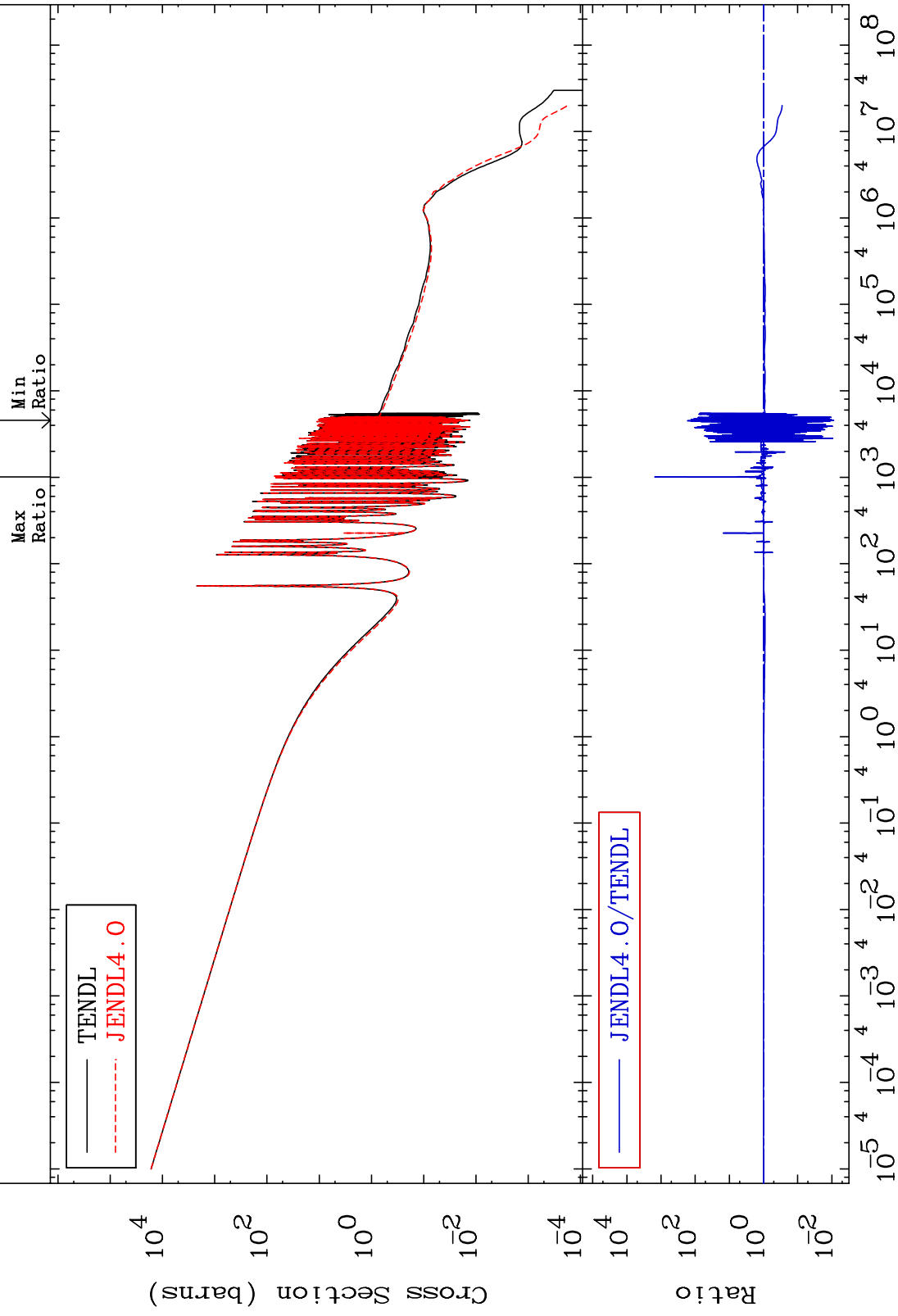
MAT 6028

(n, γ)

60-Nd-143

-99.12 To 9999. %

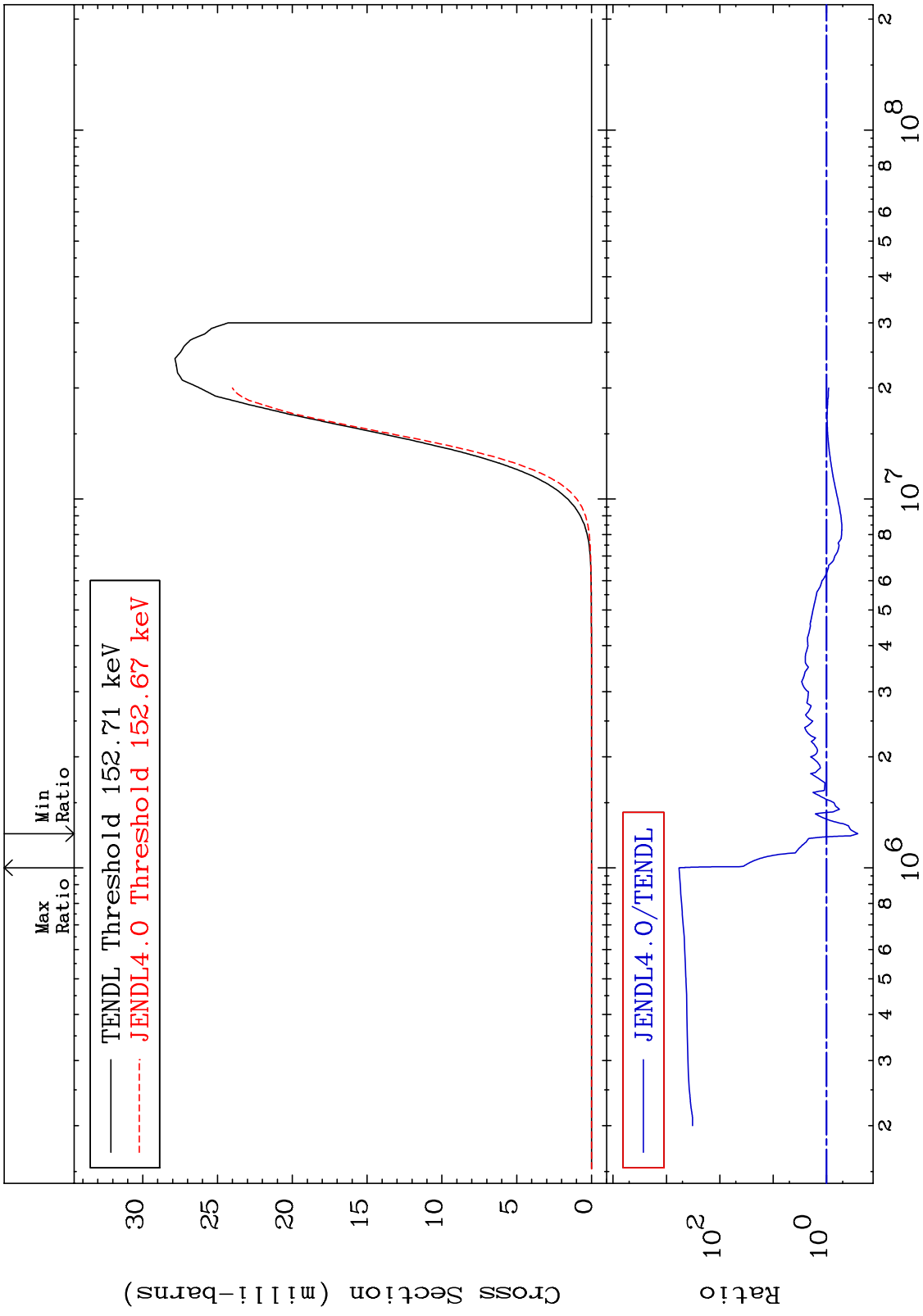
Cross Section

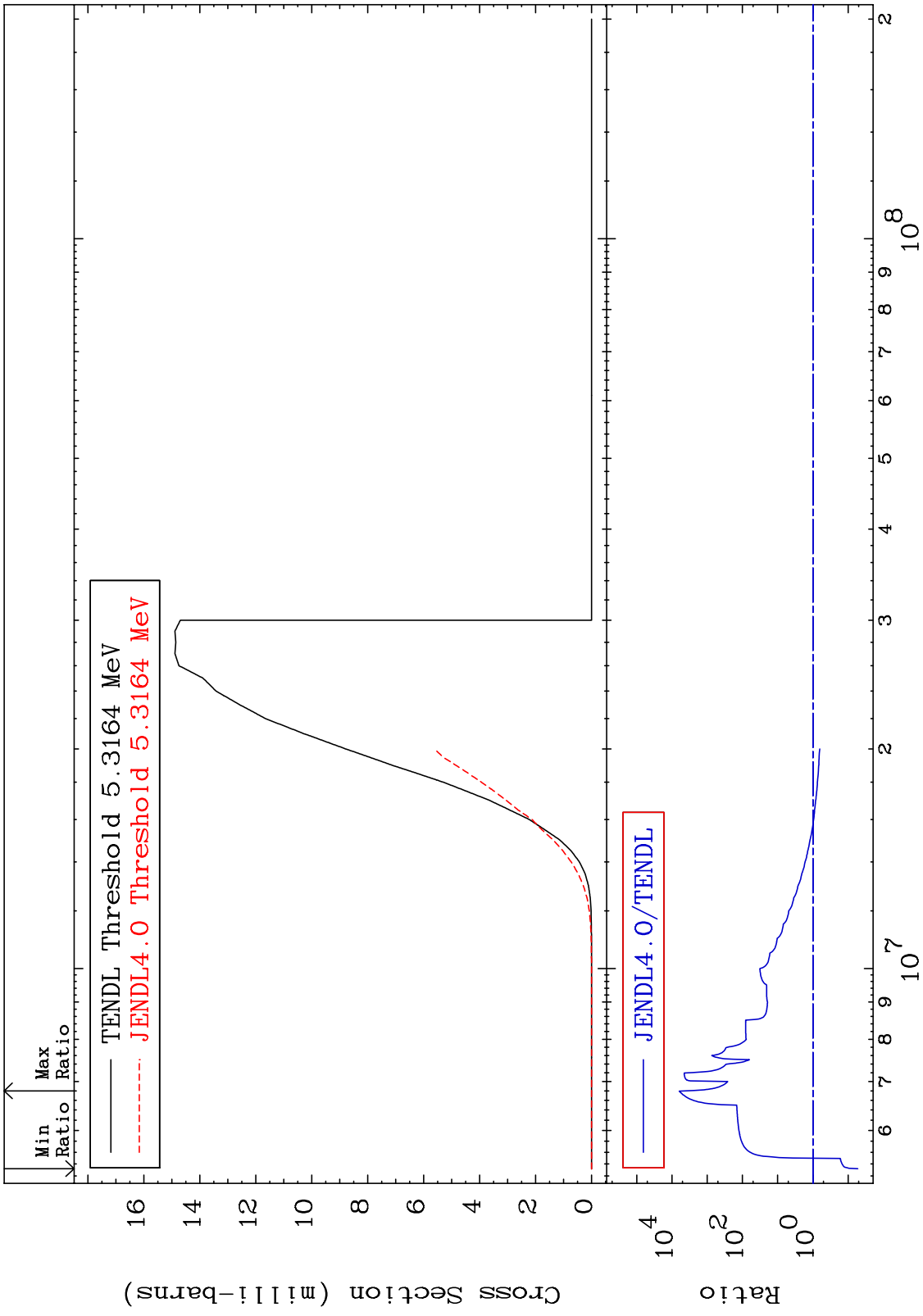


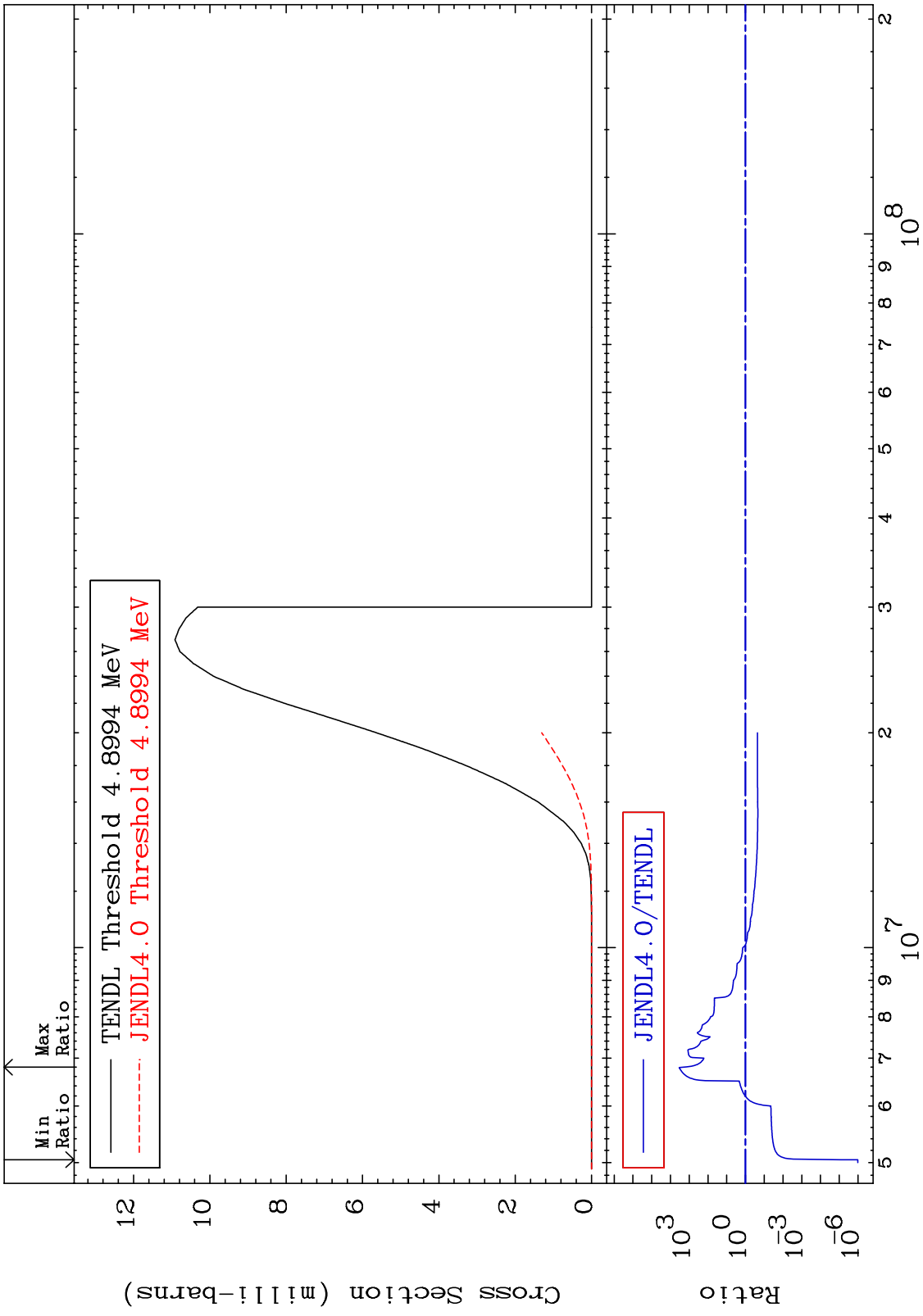
42

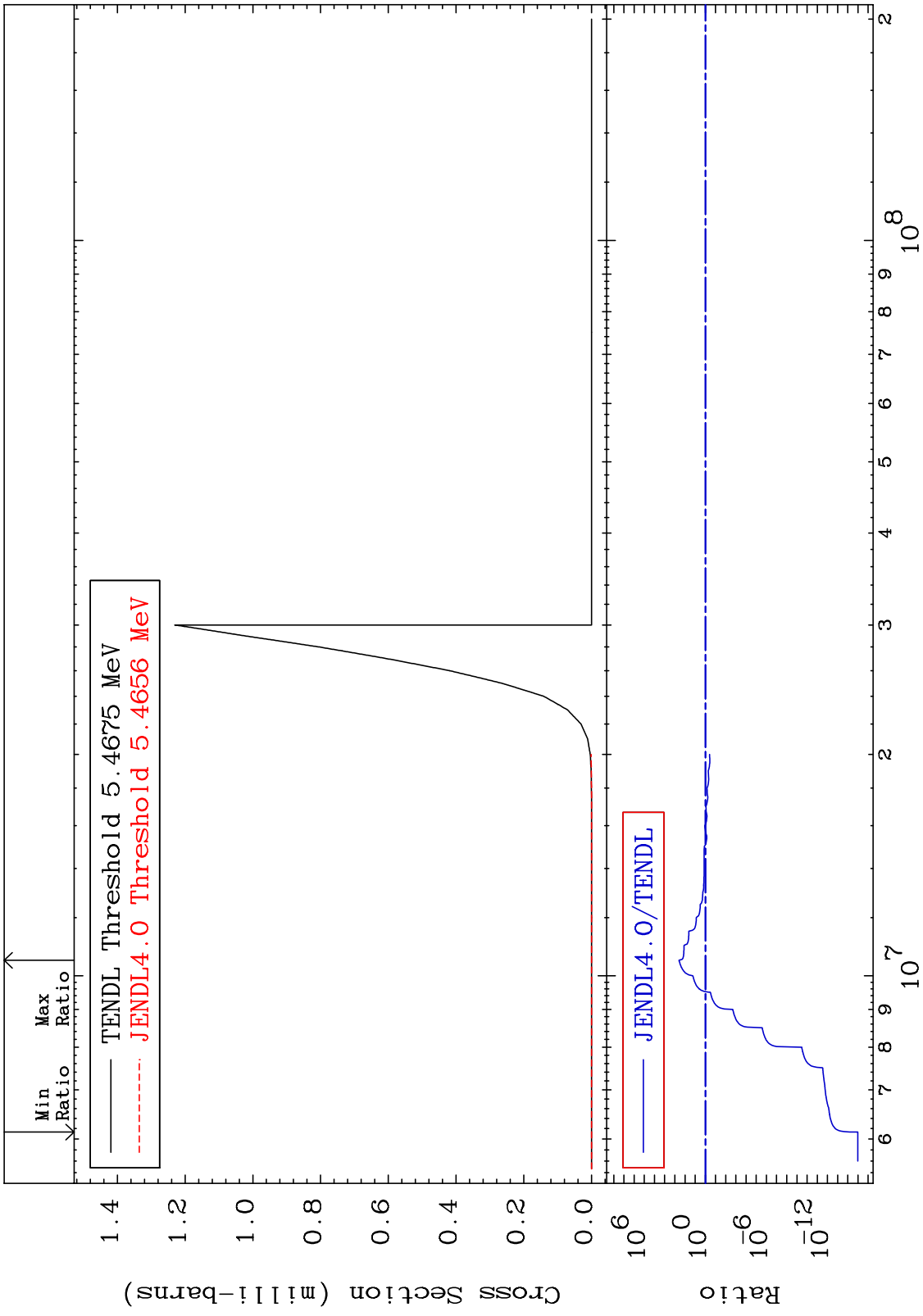
Incident Energy (eV)

60-Nd-143

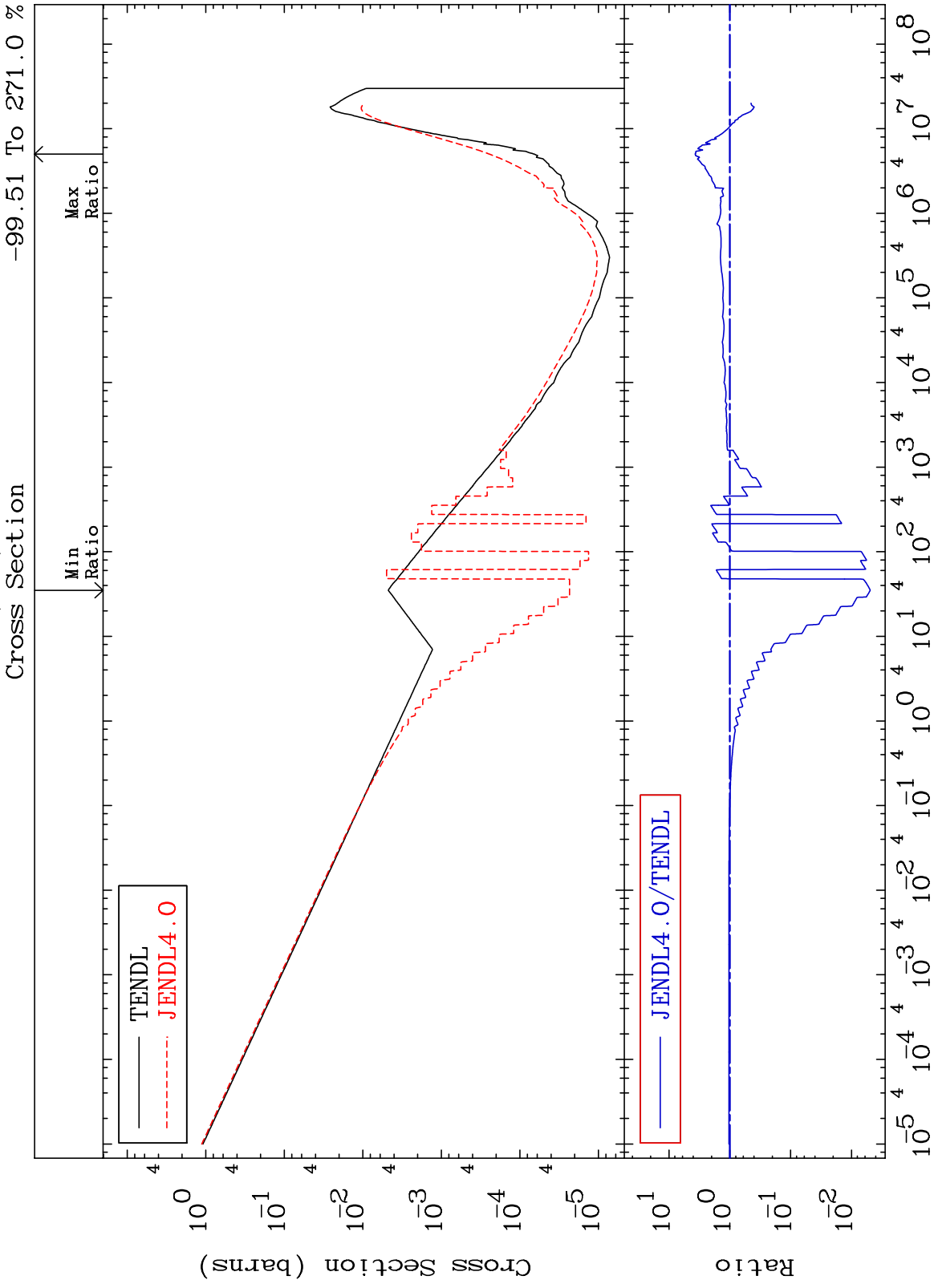








MAT 6028 (n, α) 60-Nd-143 -99.51 To 271.0 %



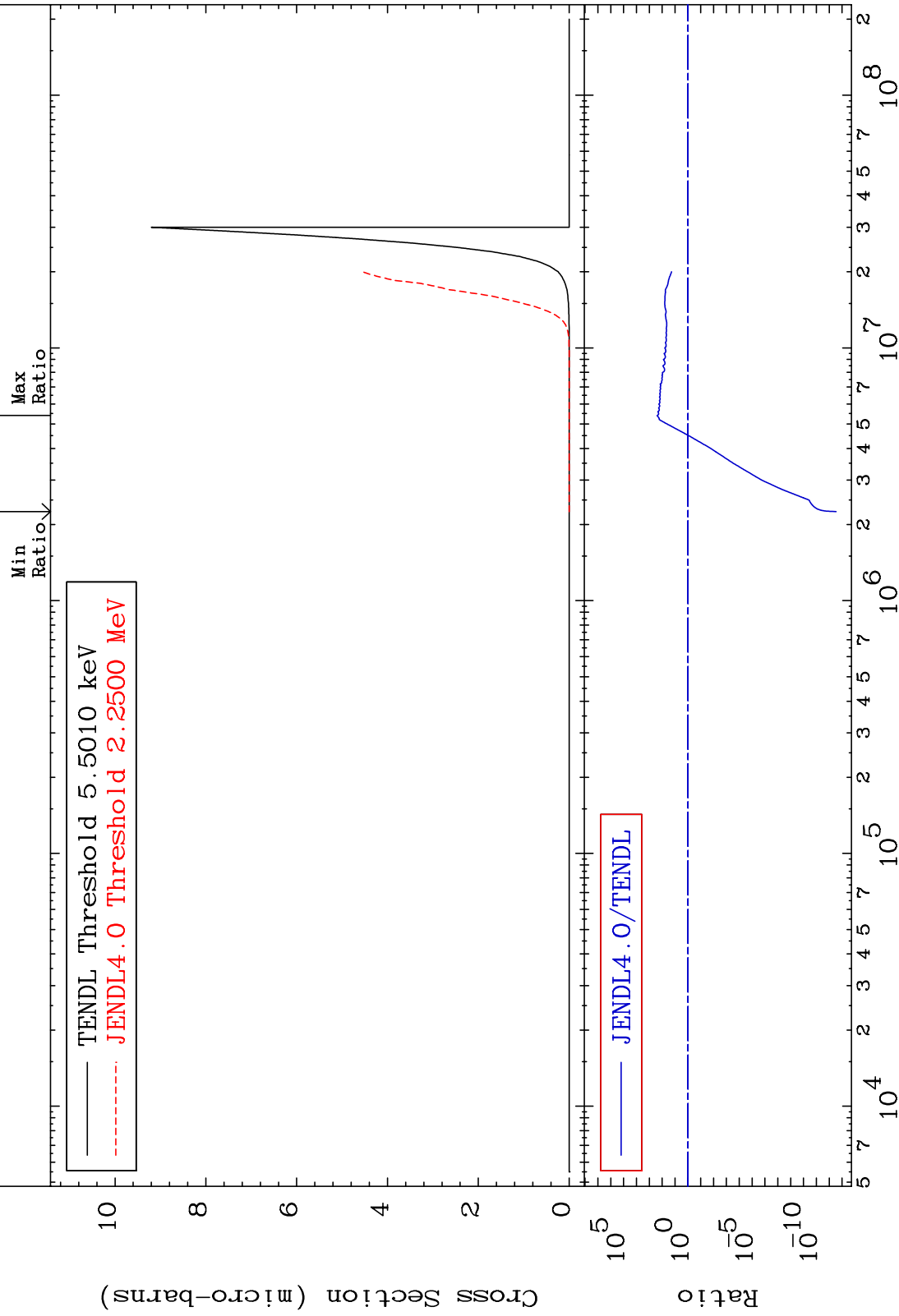
MAT 6028

(n,p) α

60-Nd-143

-100.0 To 9999. %

Cross Section



48

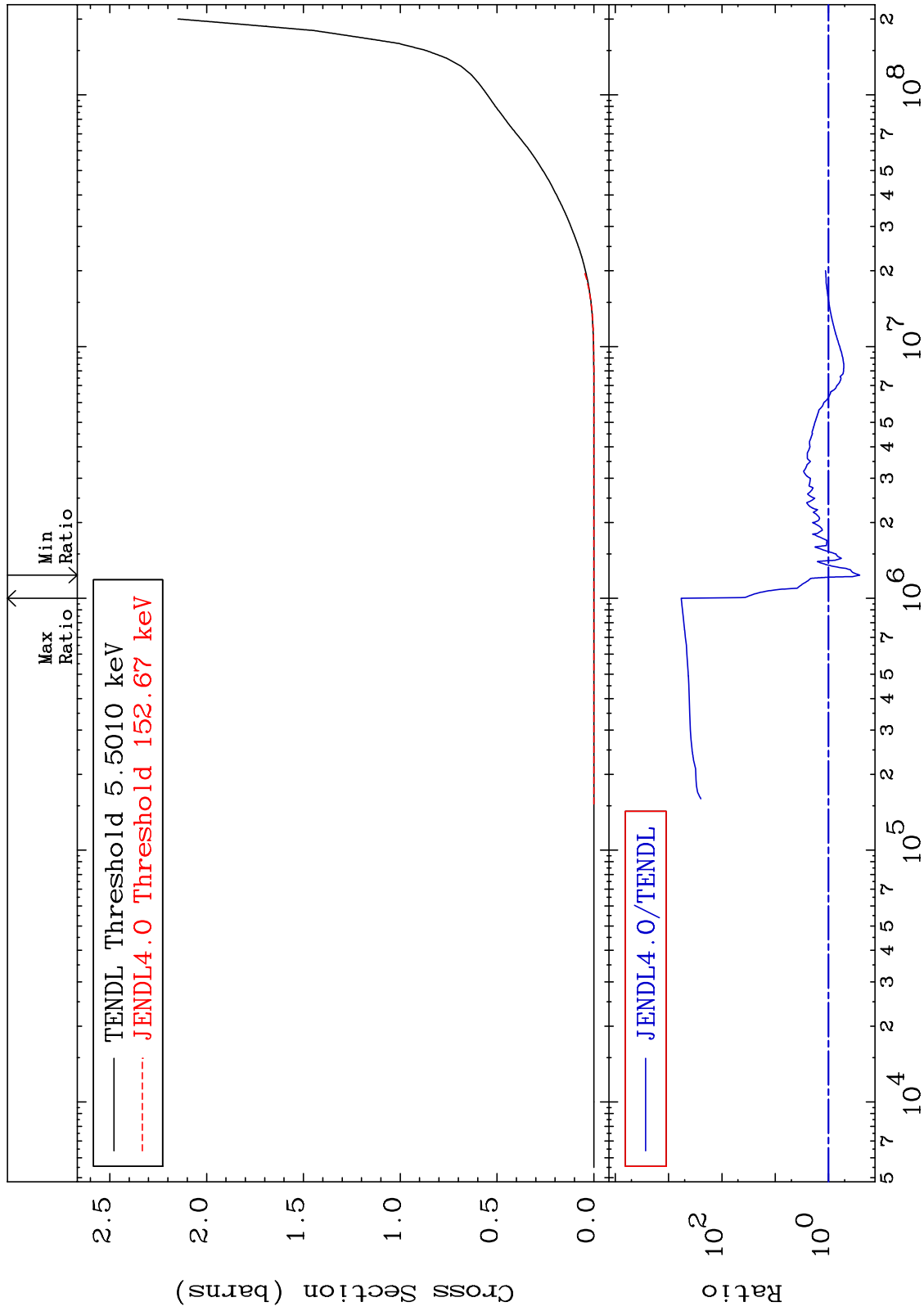
Incident Energy (eV)

60-Nd-143

MAT 6028

Hydrogen Production
Cross Section

60-Nd-143
-73.99 To 9999. %



49

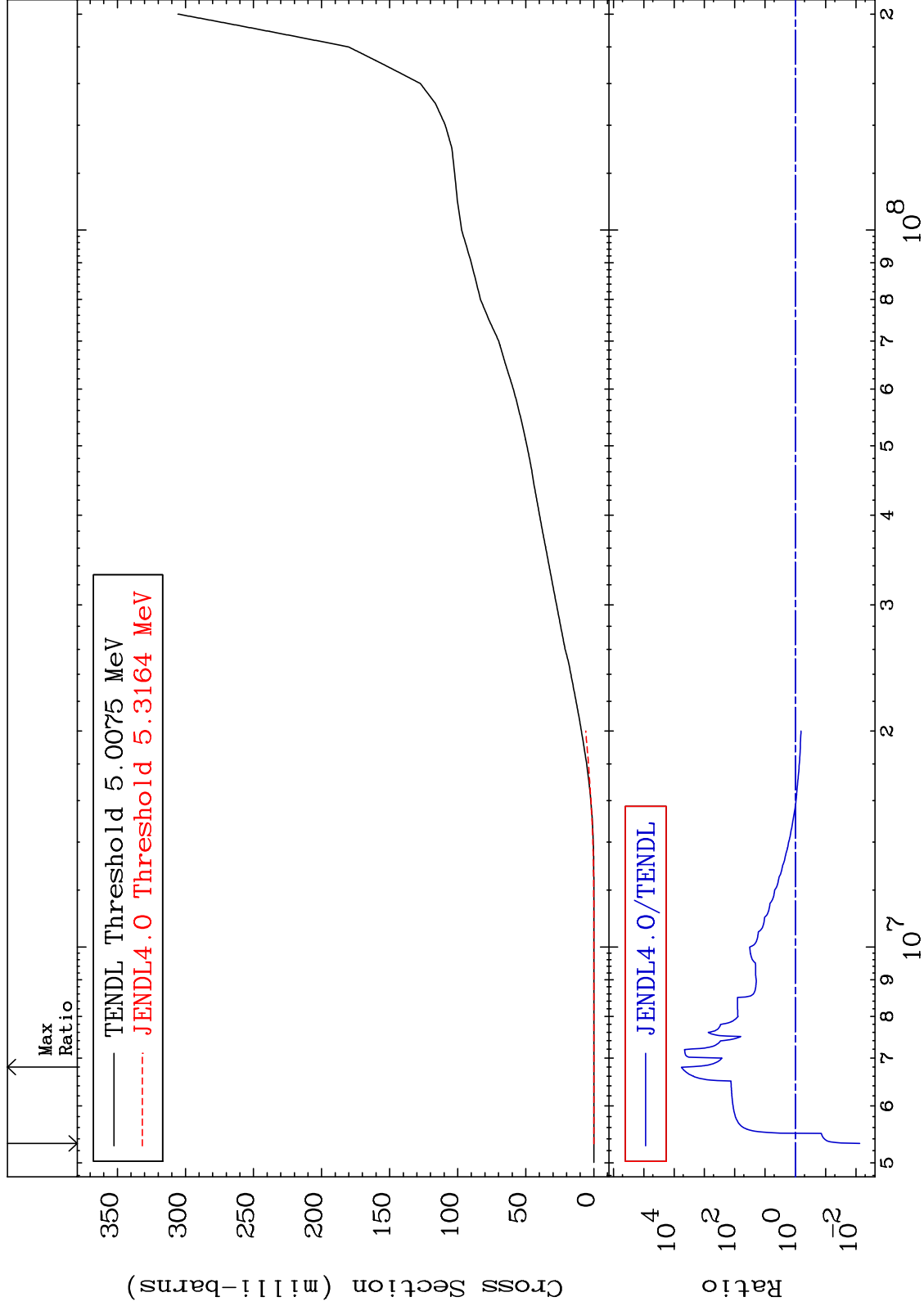
Incident Energy (eV)

60-Nd-143

MAT 6028

Deuterium Production
Cross Section

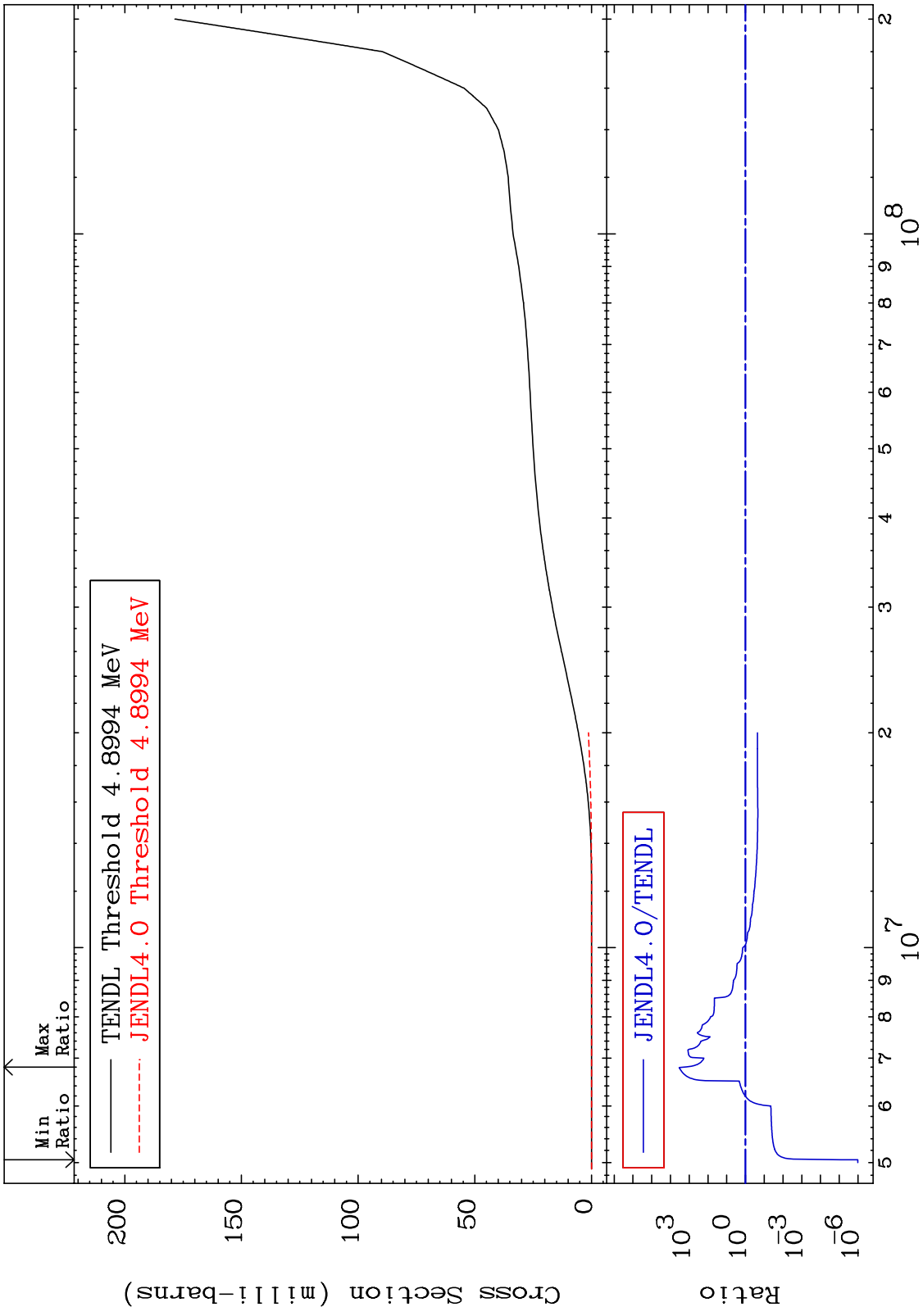
60-Nd-143
-99.24 To 9999. %



50

Incident Energy (eV)

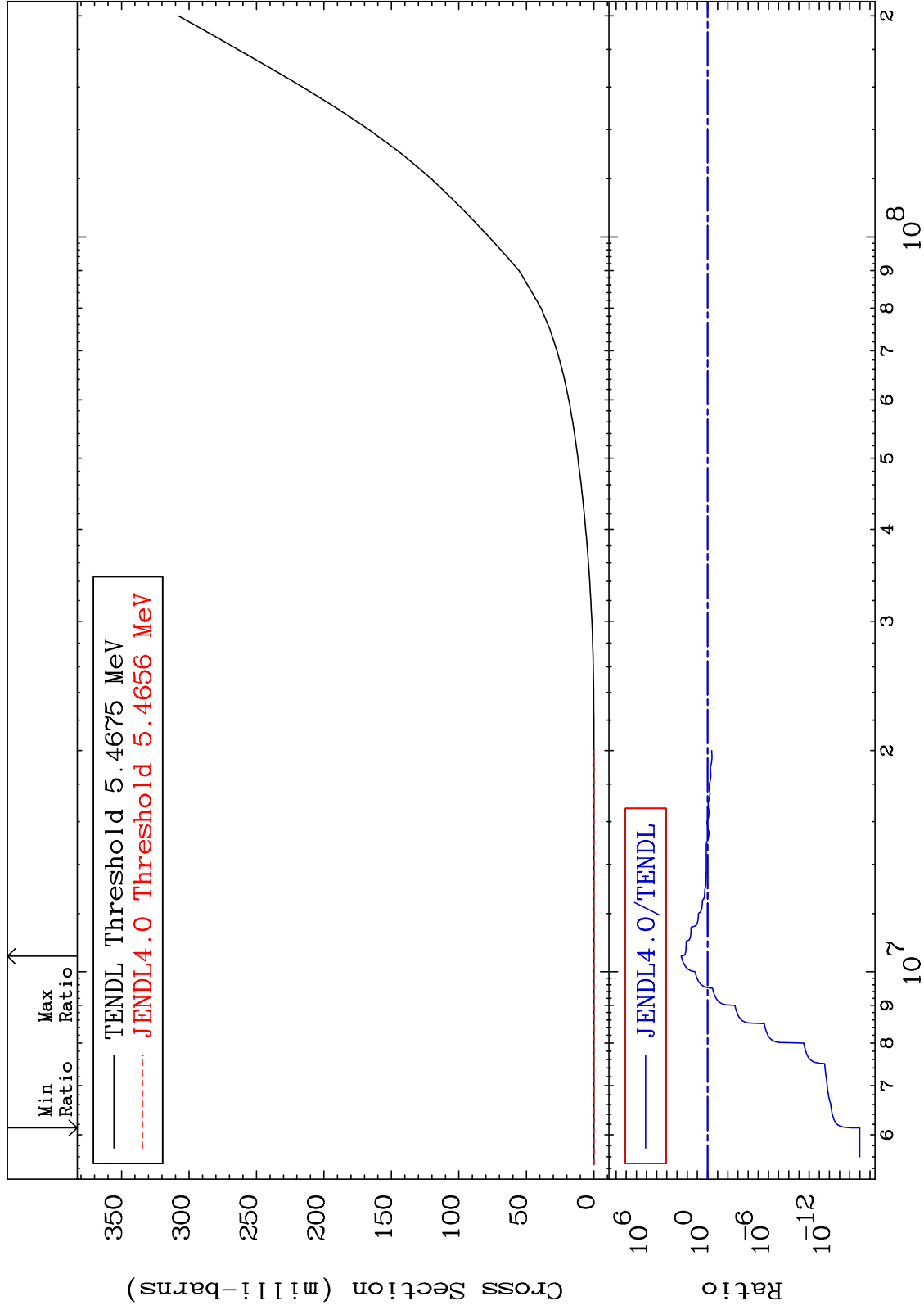
60-Nd-143



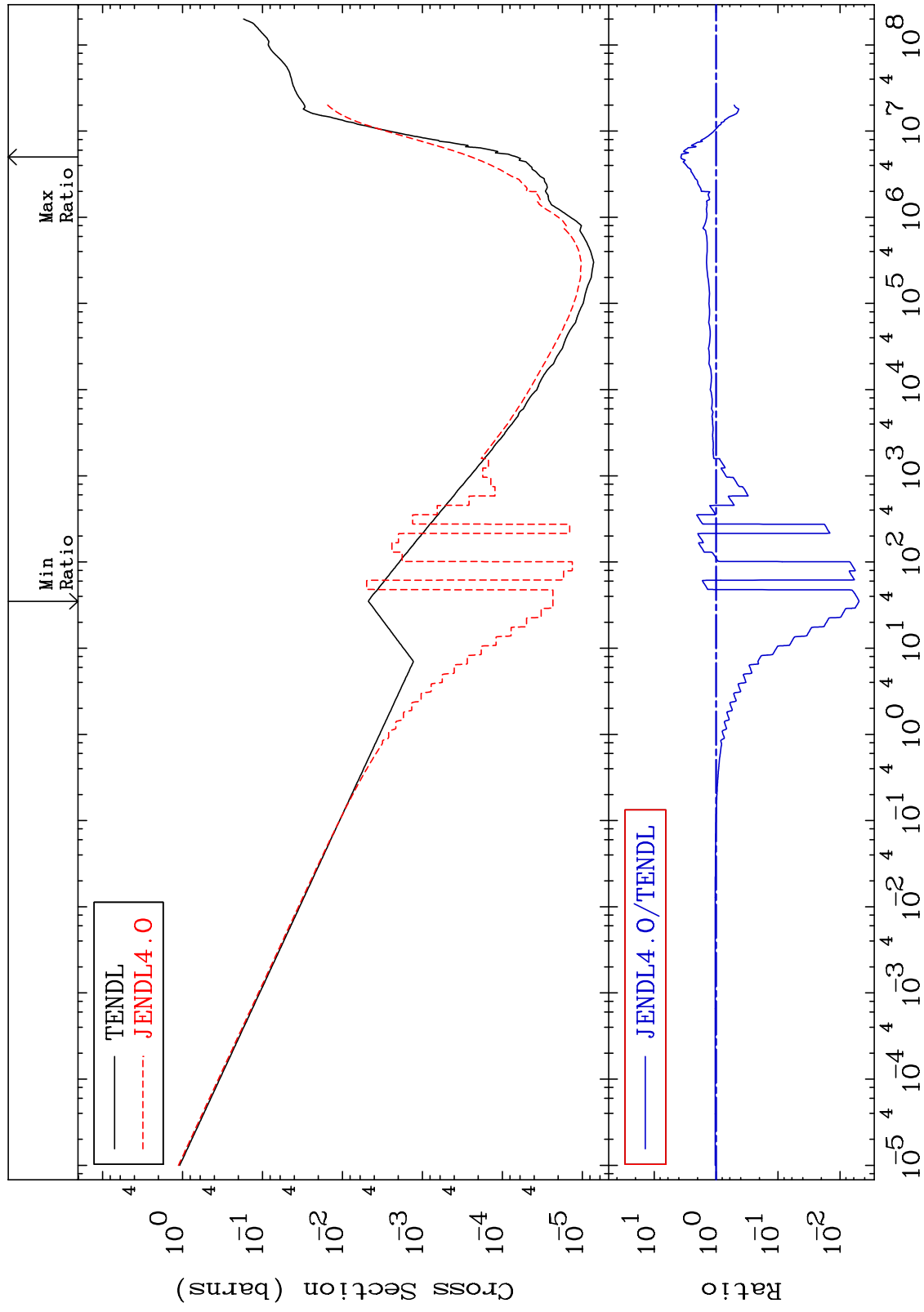
MAT 6028

He-3 Production
Cross Section

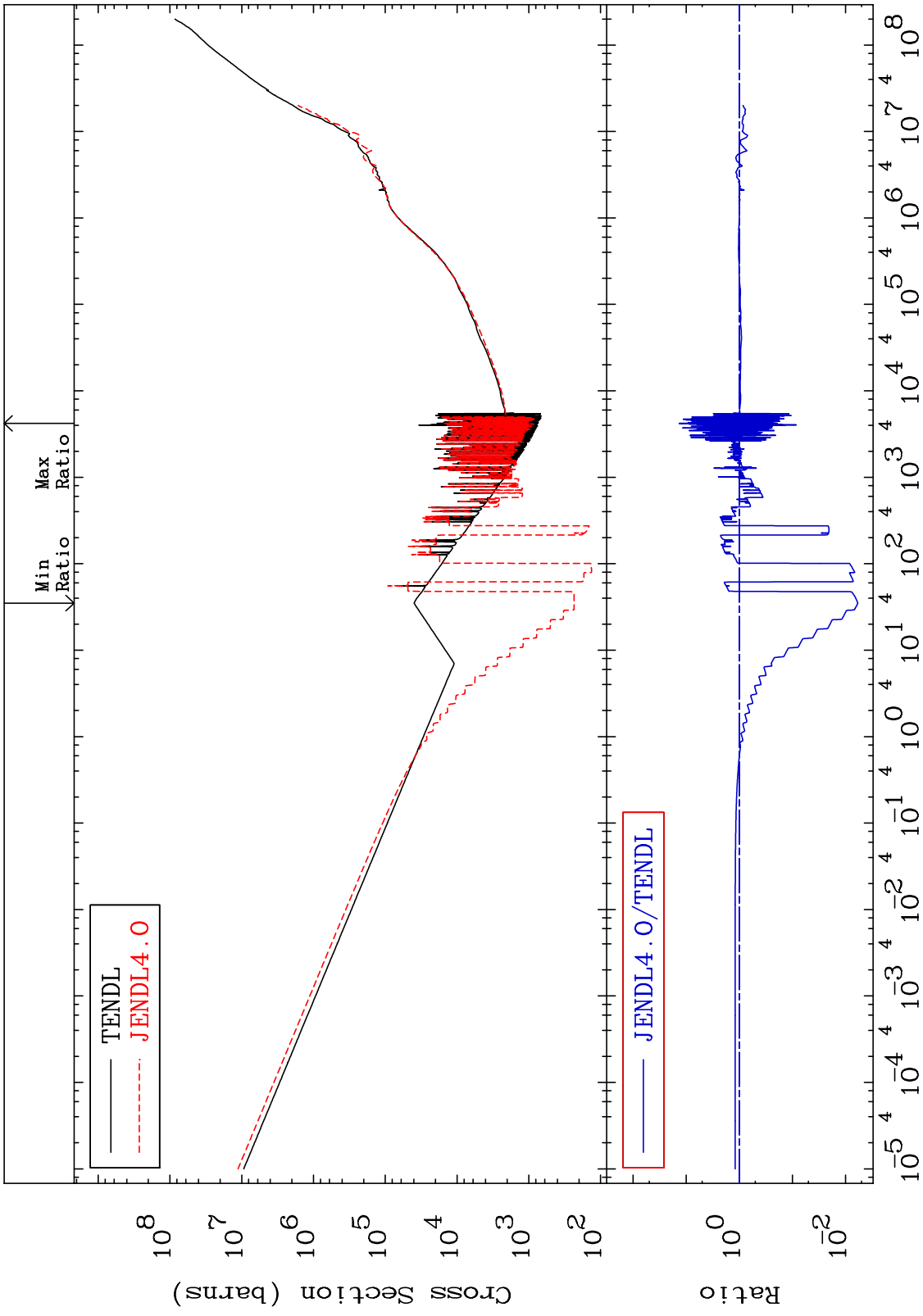
60-Nd-143
-100.0 To 9999. %



MAT 6028 He-4 Production Cross Section 60-Nd-143 -99.51 To 271.0 %



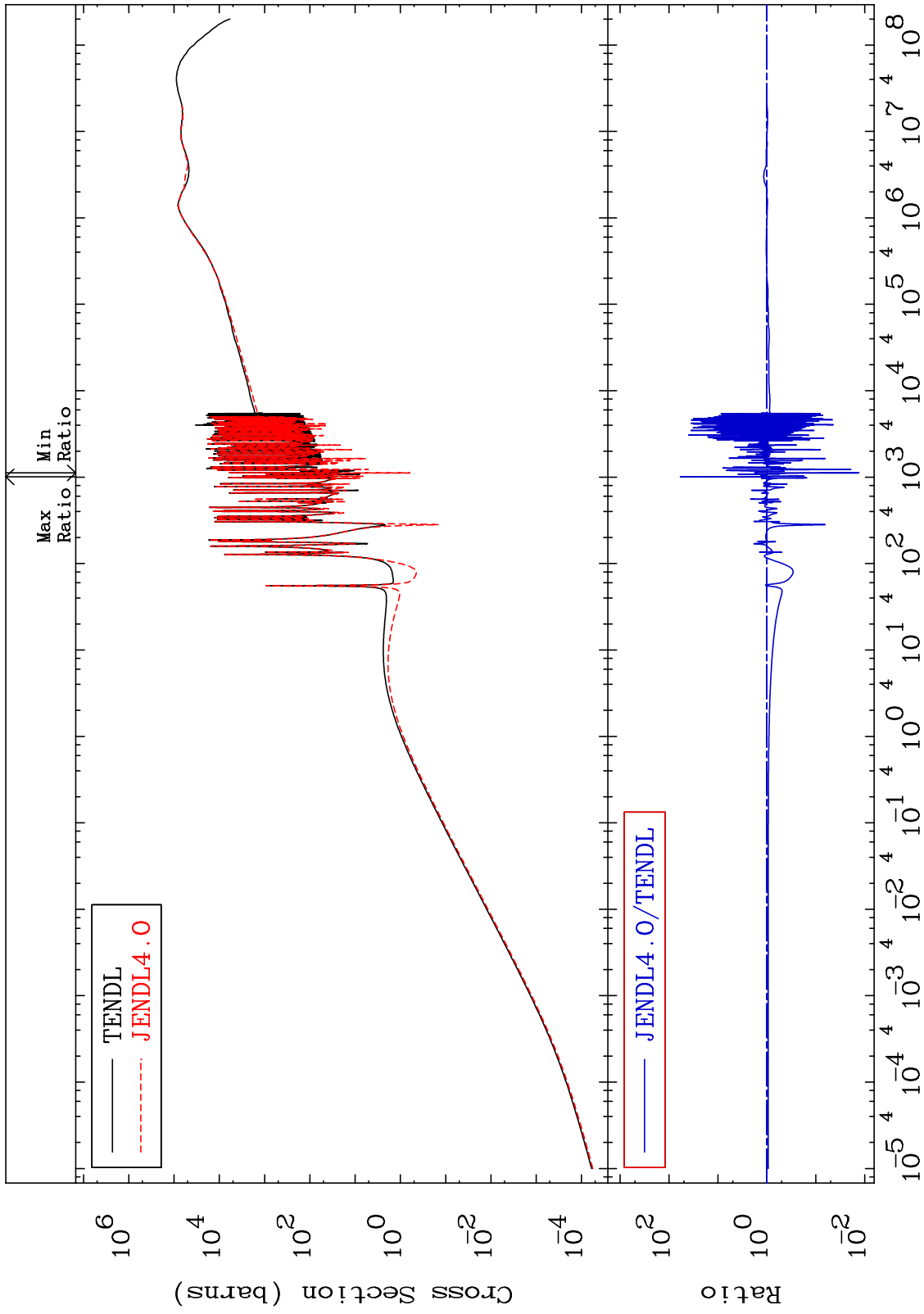
MAT 6028 Kerma total (eV-barns) 60-Nd-143
 Cross Section -99.41 To 1268. %



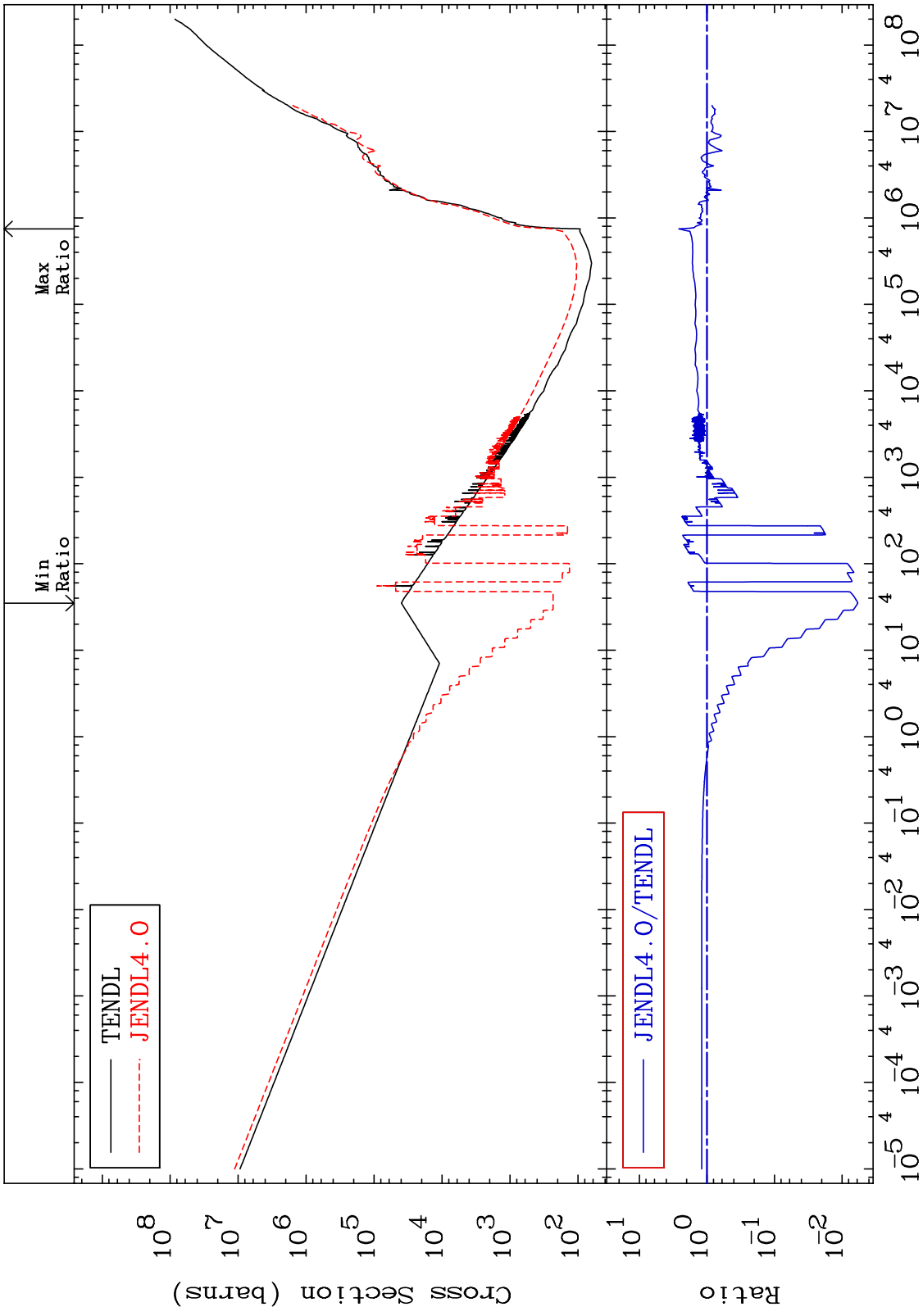
MAT 6028

Kerma elastic
Cross Section

60-Nd-143
-98.68 To 5829. %



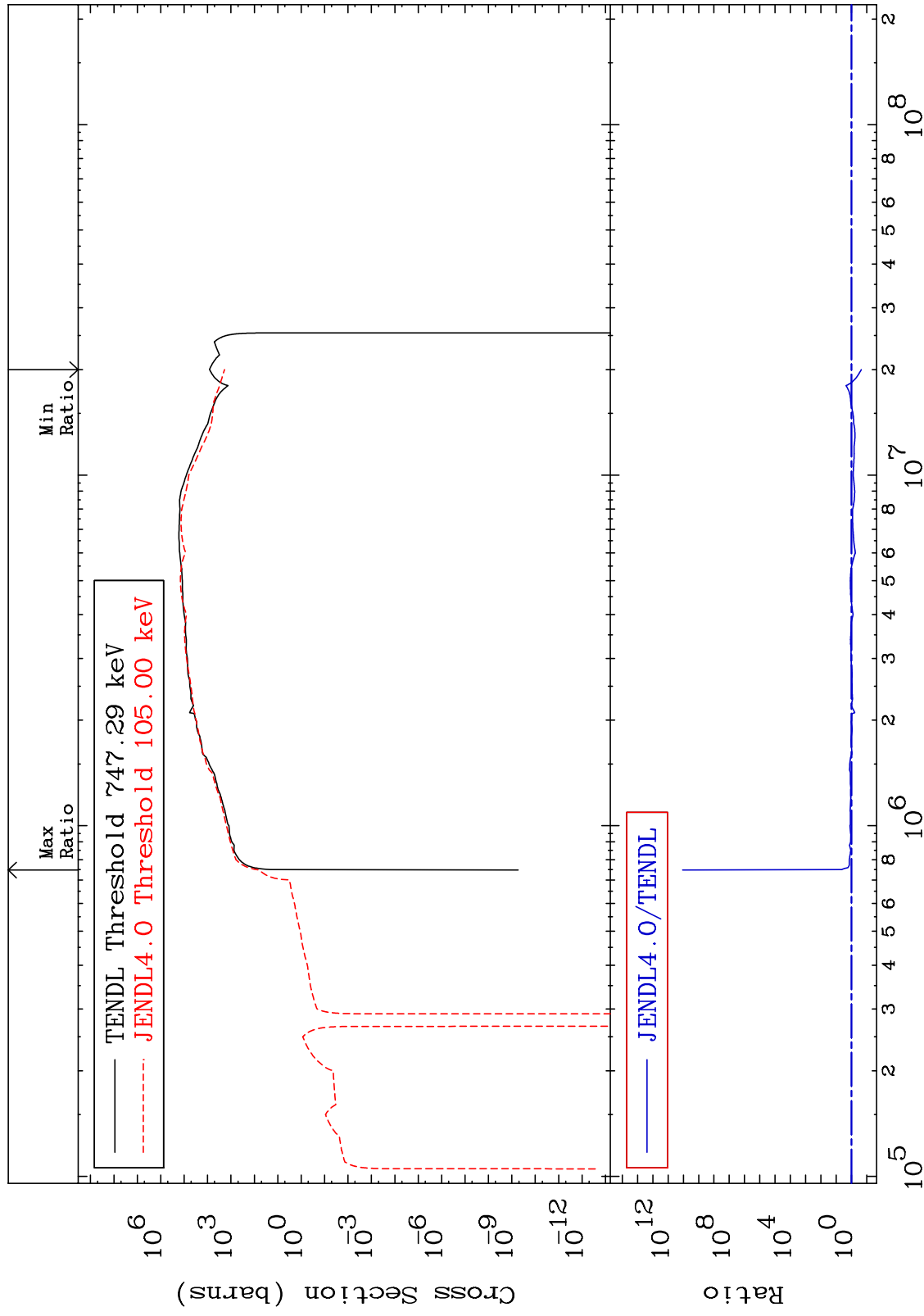
MAT 6028 Kerma non-elastic (all but mt2) 60-Nd-143
 Cross Section -99.42 To 159.6 %



MAT 6028

Kerma inelastic (mt51-91)
Cross Section

60-Nd-143
-77.29 To 9999. %



57

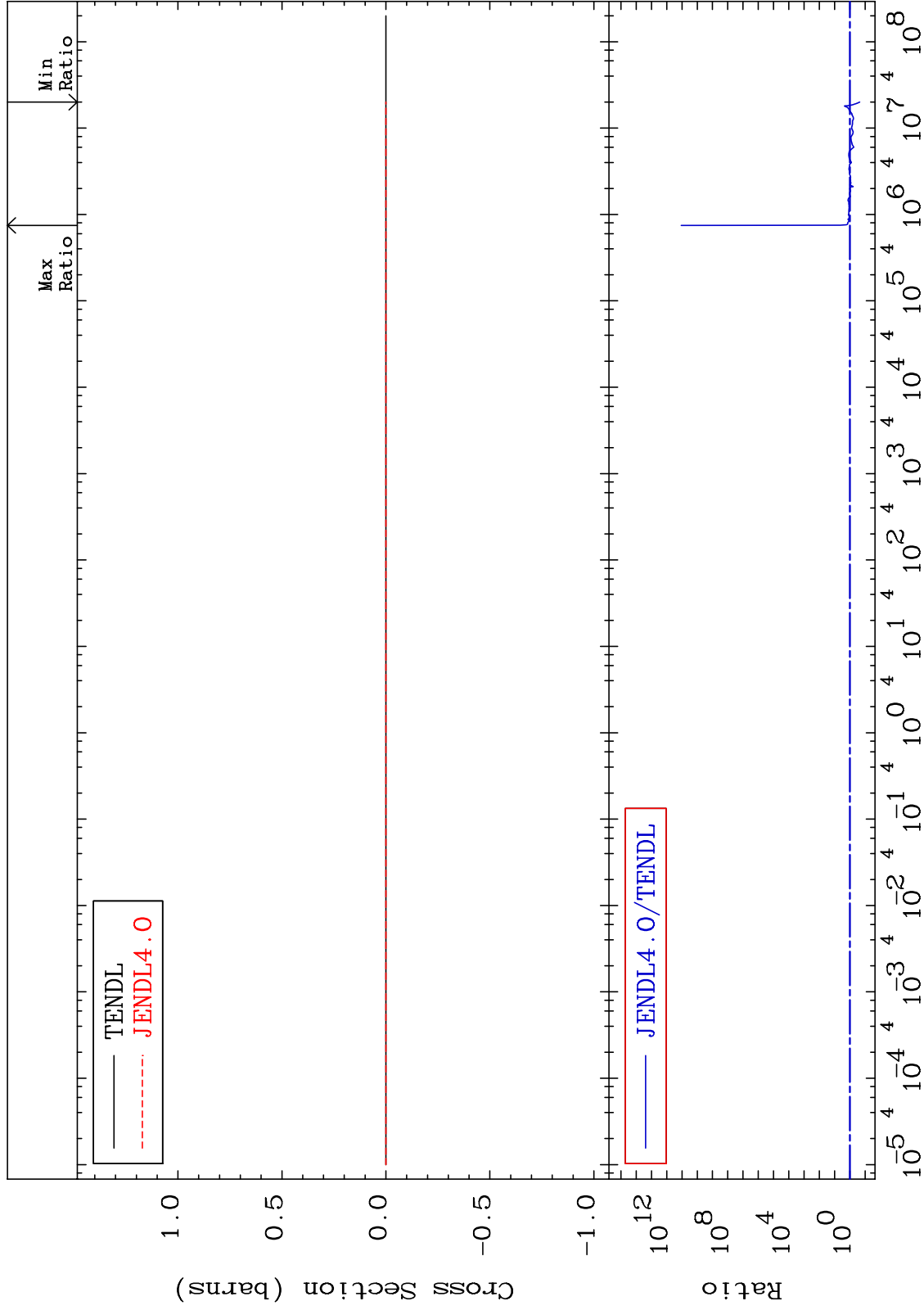
Incident Energy (eV)

60-Nd-143

MAT 6028

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

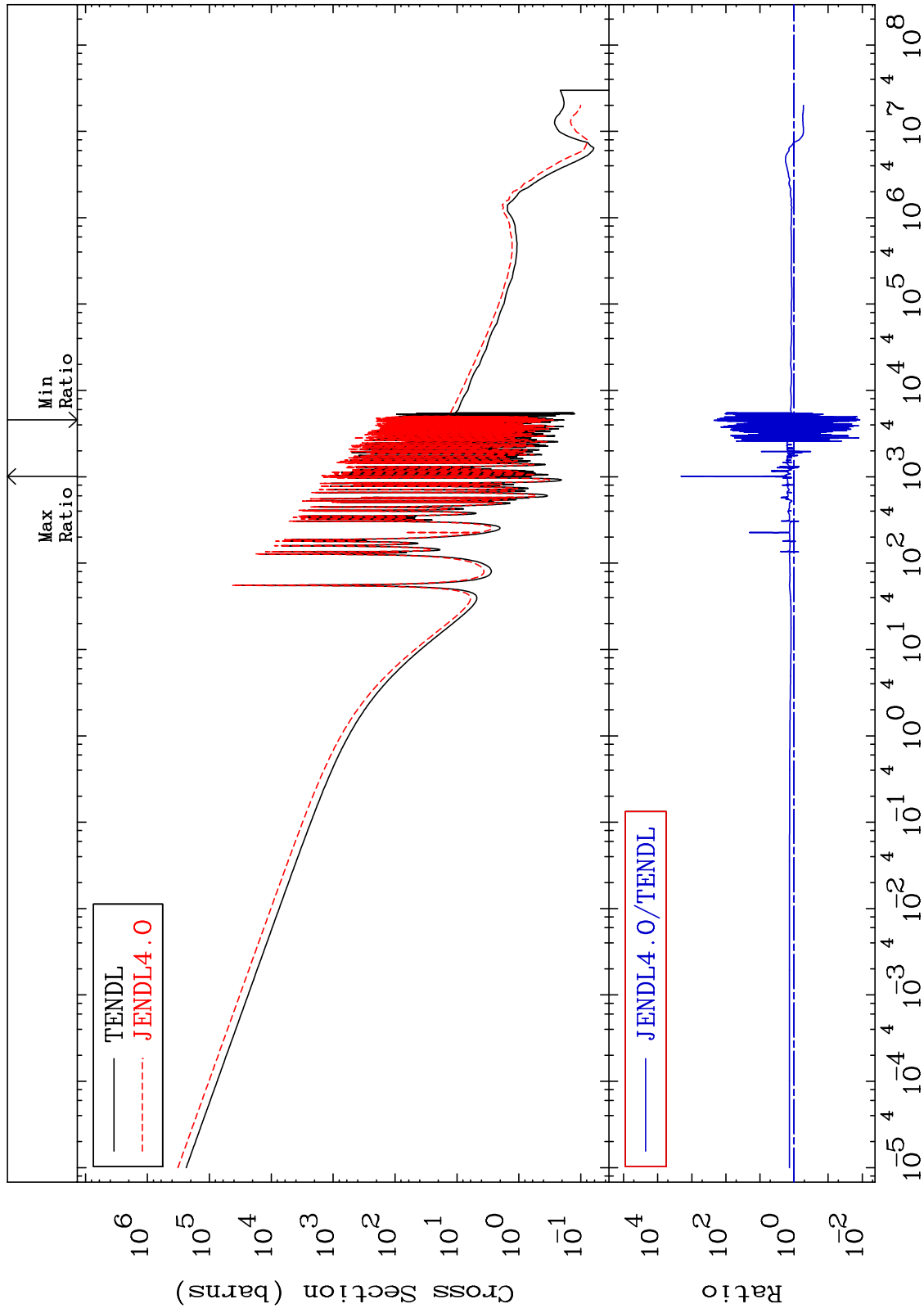
60-Nd-143
-77.29 To 9999. %



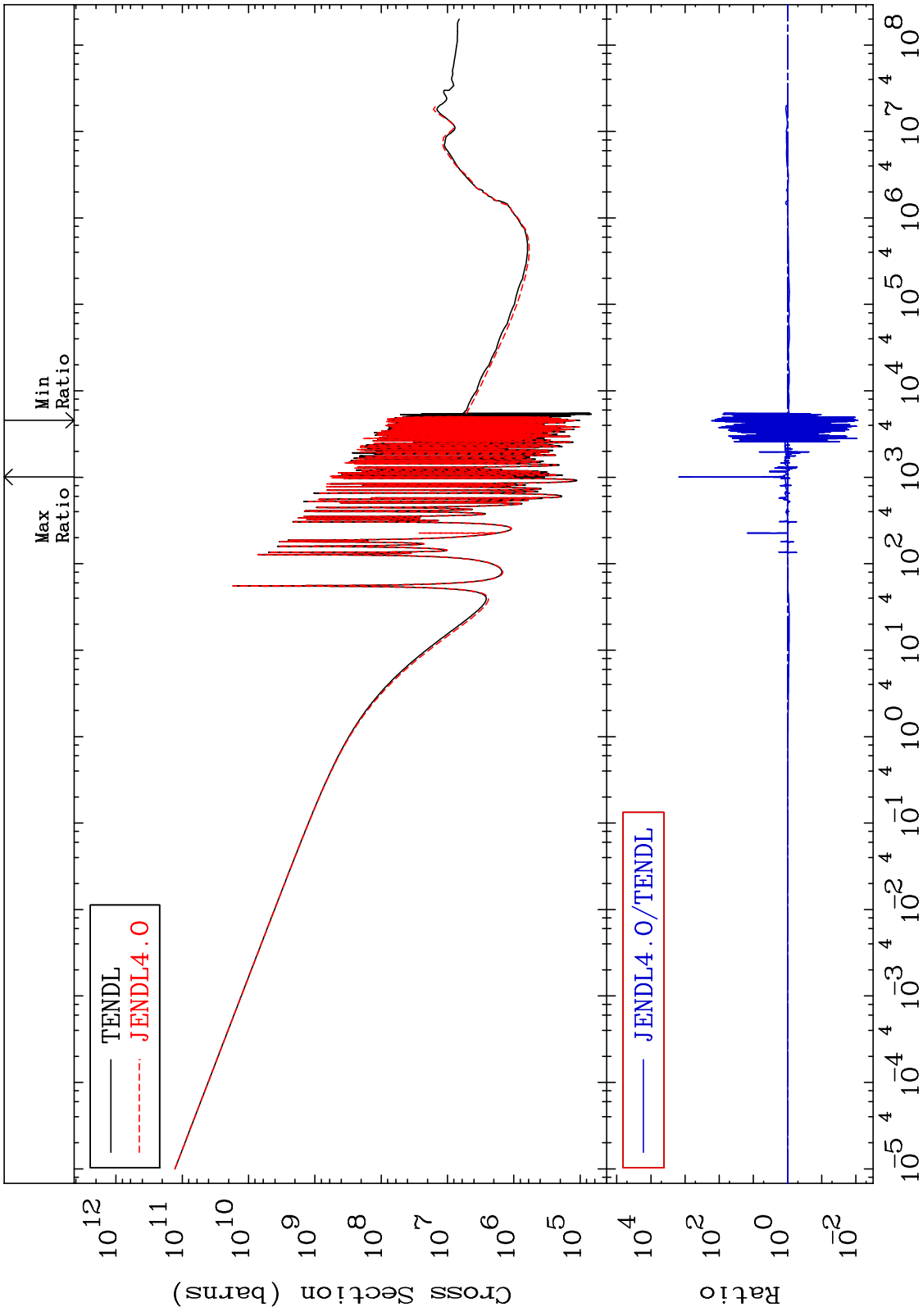
MAT 6028

Kerma capture (mt102)
Cross Section

60-Nd-143
-98.82 To 9999. %

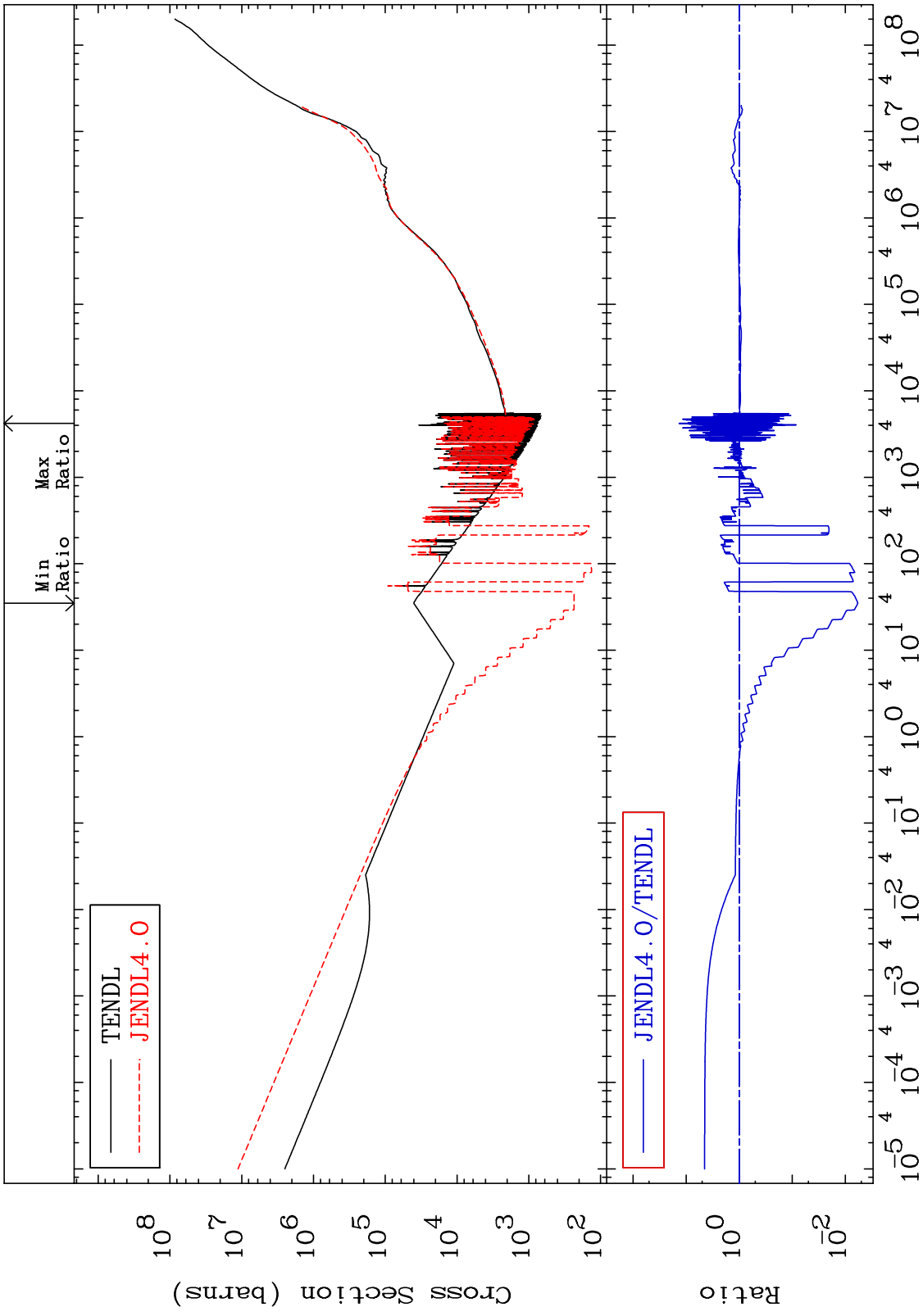


MAT 6028 Total photon (eV-barns) Cross Section 60-Nd-143
-99.12 To 9999. %



60 Incident Energy (eV) 60-Nd-143

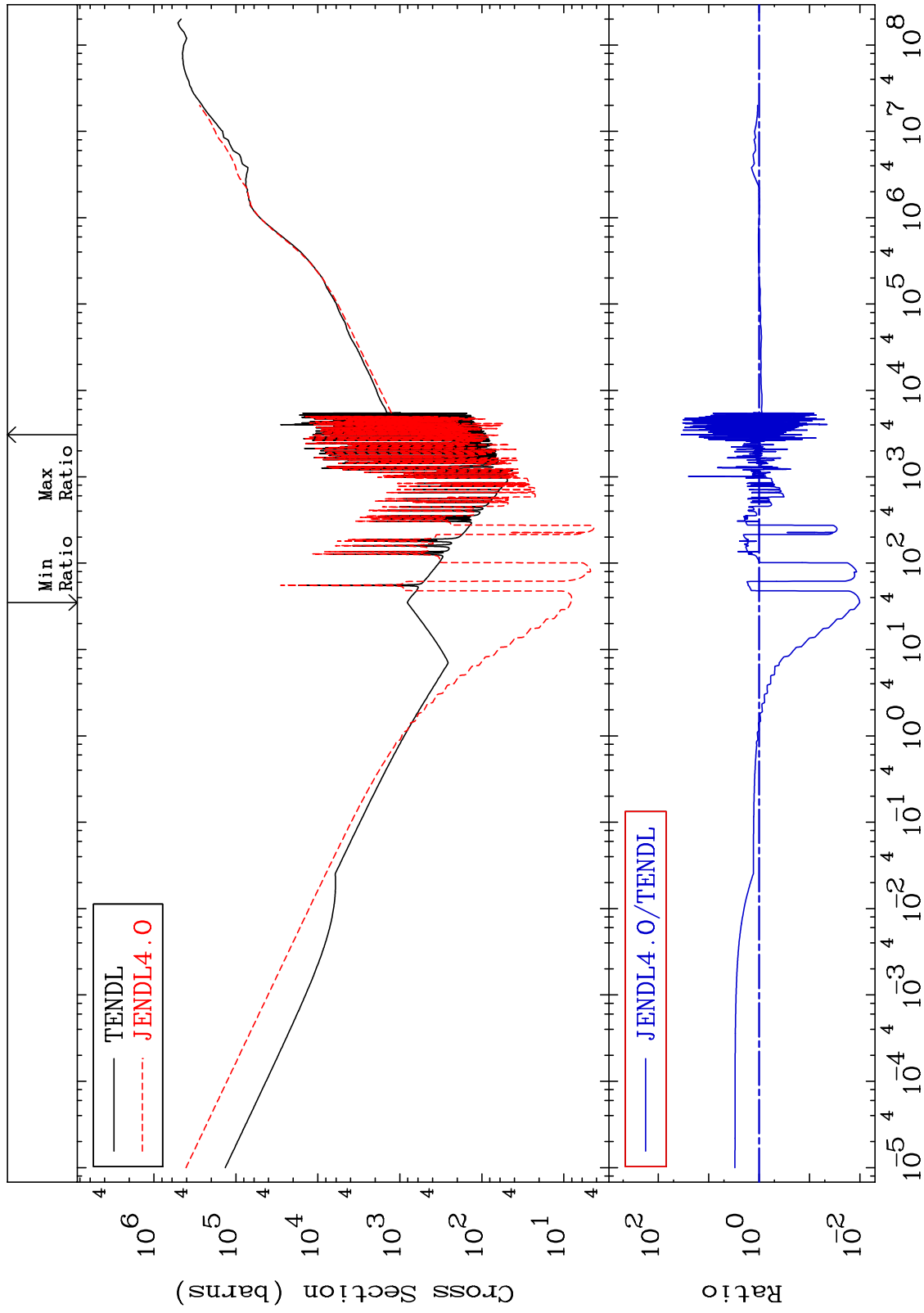
MAT 6028 Total kinematic kerma (high limit) 60-Nd-143
 Cross Section -99.42 To 1261. %



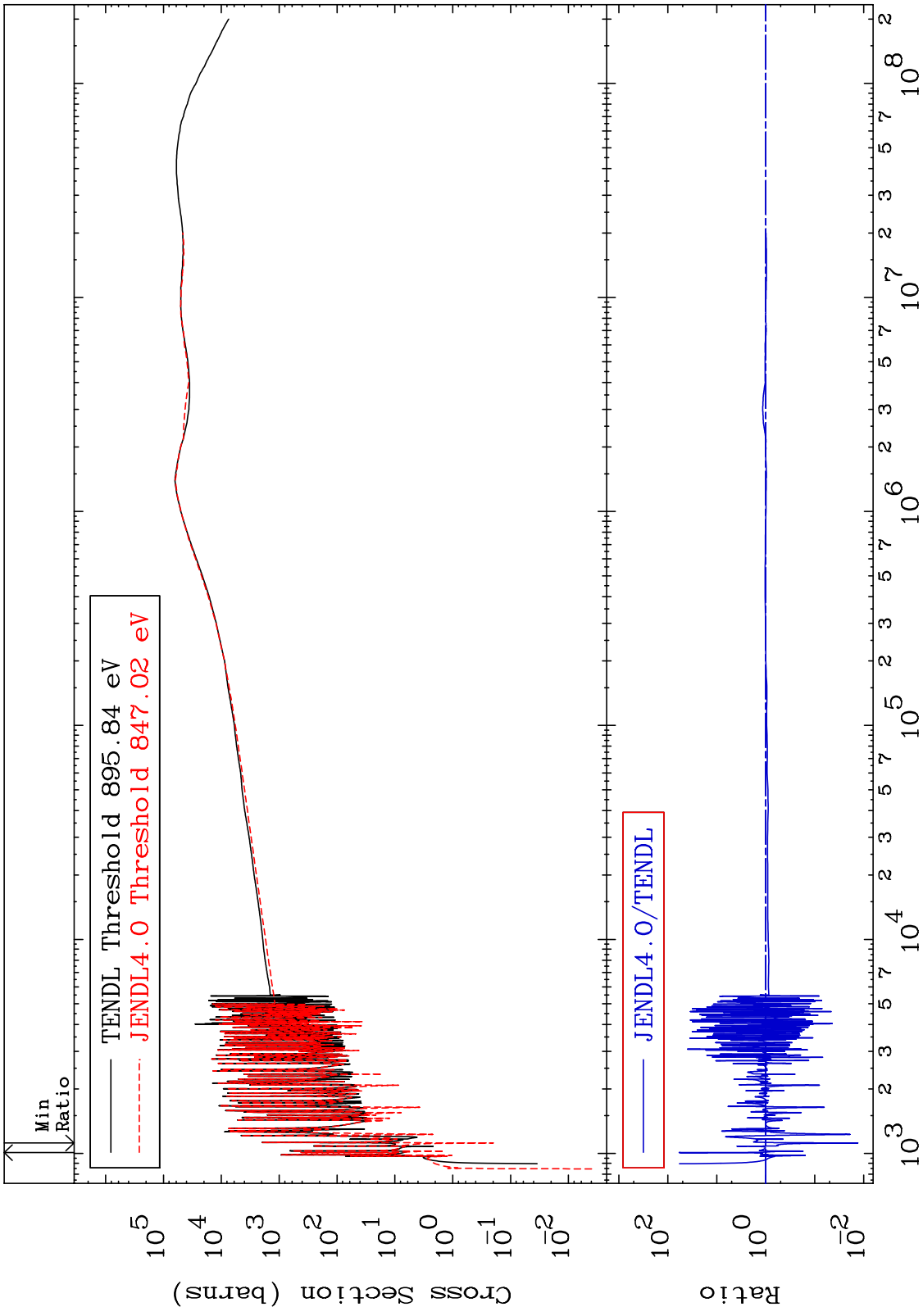
MAT 6028

Dpa total (eV-barns)
Cross Section

60-Nd-143
-98.99 To 3404. %



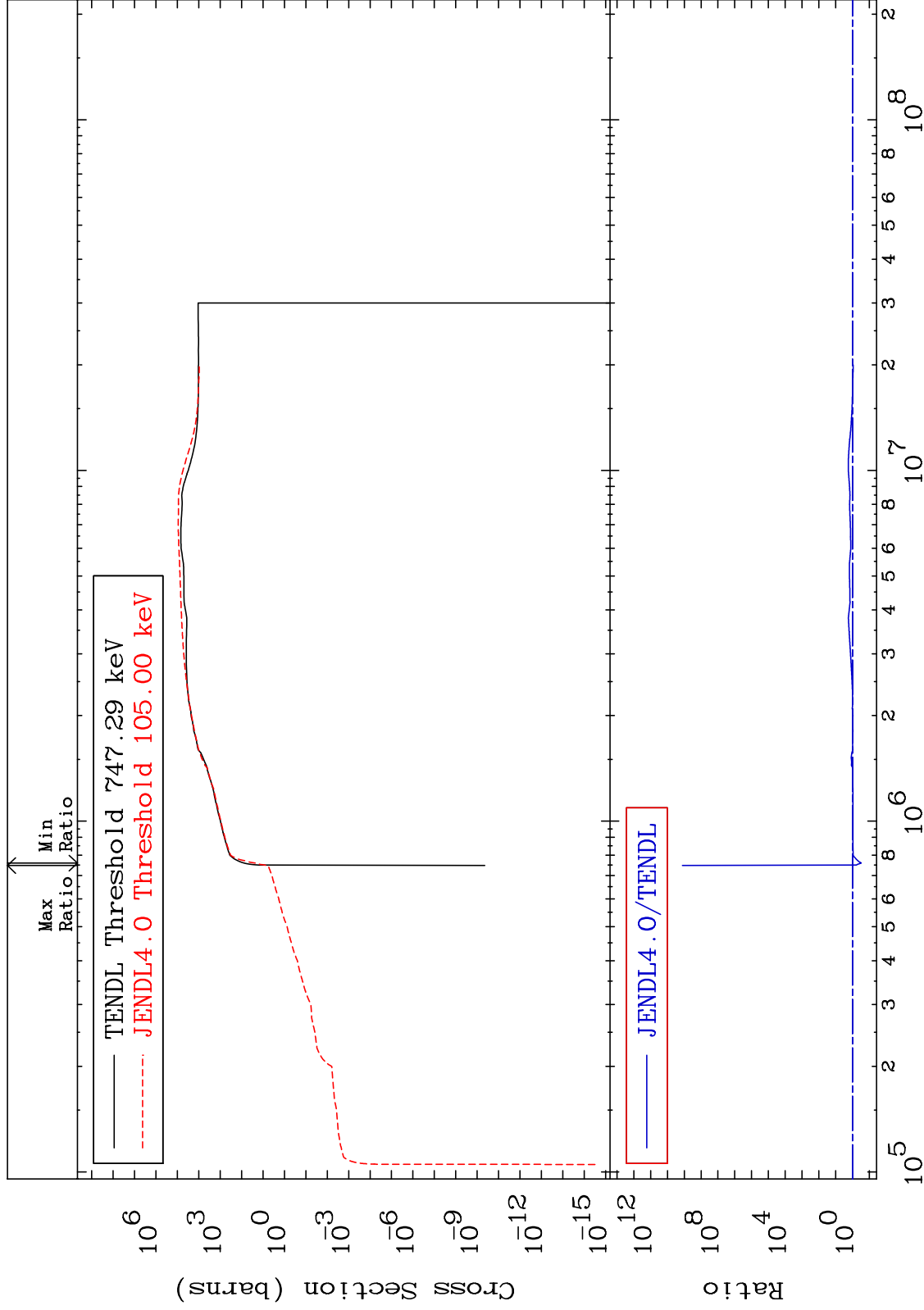
MAT 6028 Dpa elastic (mt2) 60-Nd-143
Cross Section -98.68 To 5828. %



MAT 6028

Dpa inelastic (mt51-91)
Cross Section

60-Nd-143
-70.07 To 9999. %

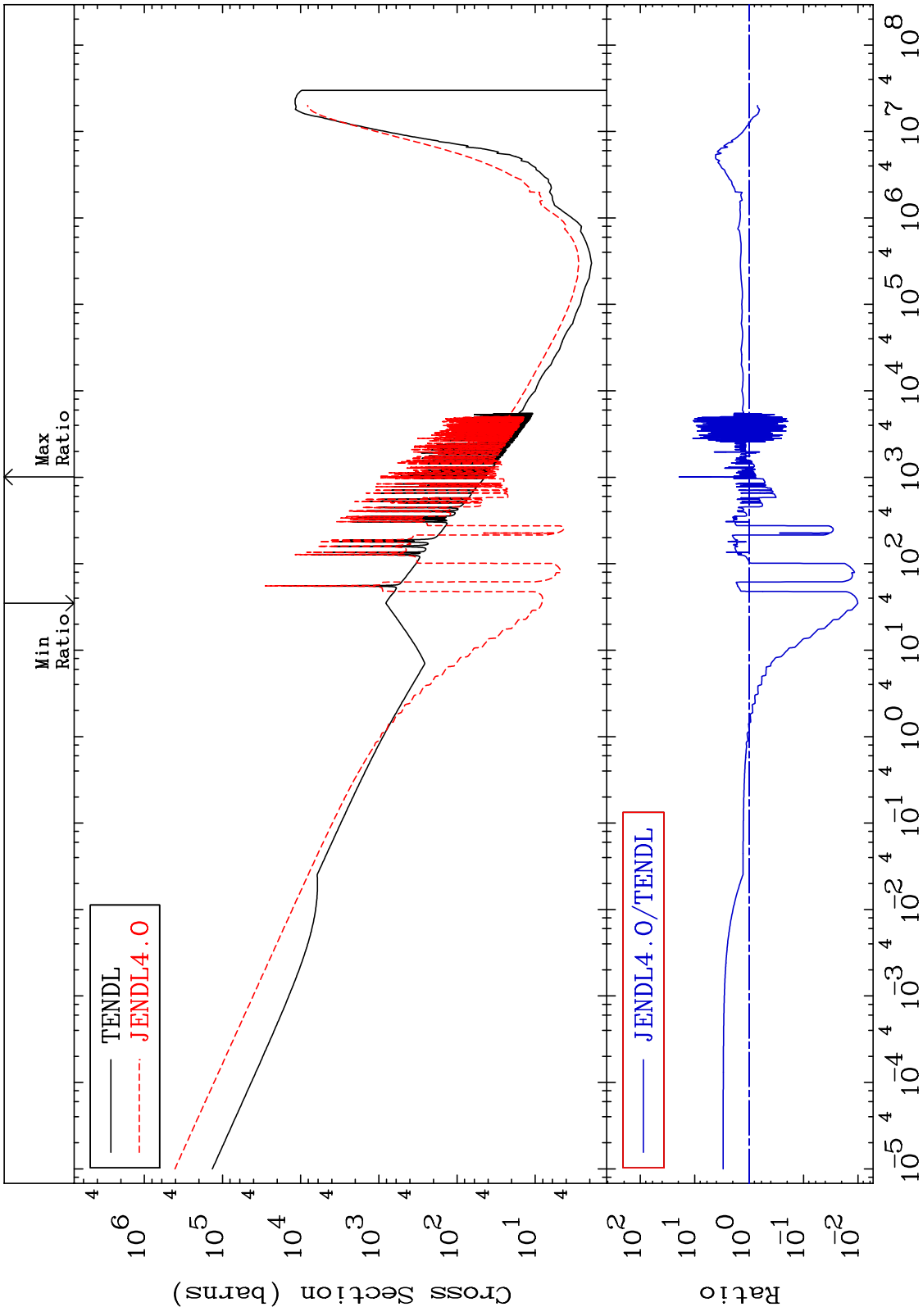


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Incident Energy (eV)

60-Nd-143

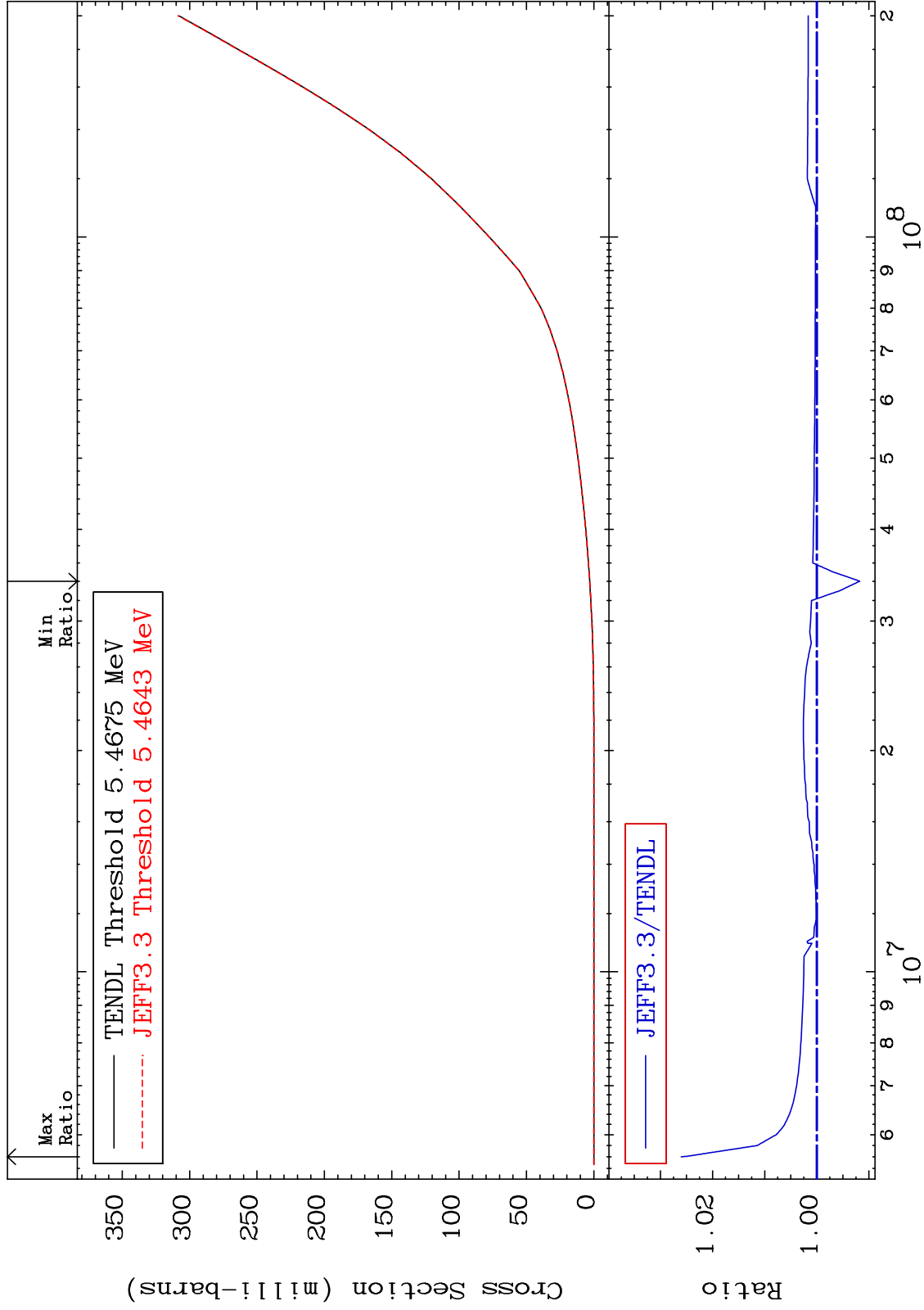
MAT 6028 Dpa disappearance (mt102 -120) 60-Nd-143
 Cross Section -98.99 To 1848. %



MAT 6028

He-3 Production
Cross Section

60-Nd-143
-0.823 To 2.600 %



66

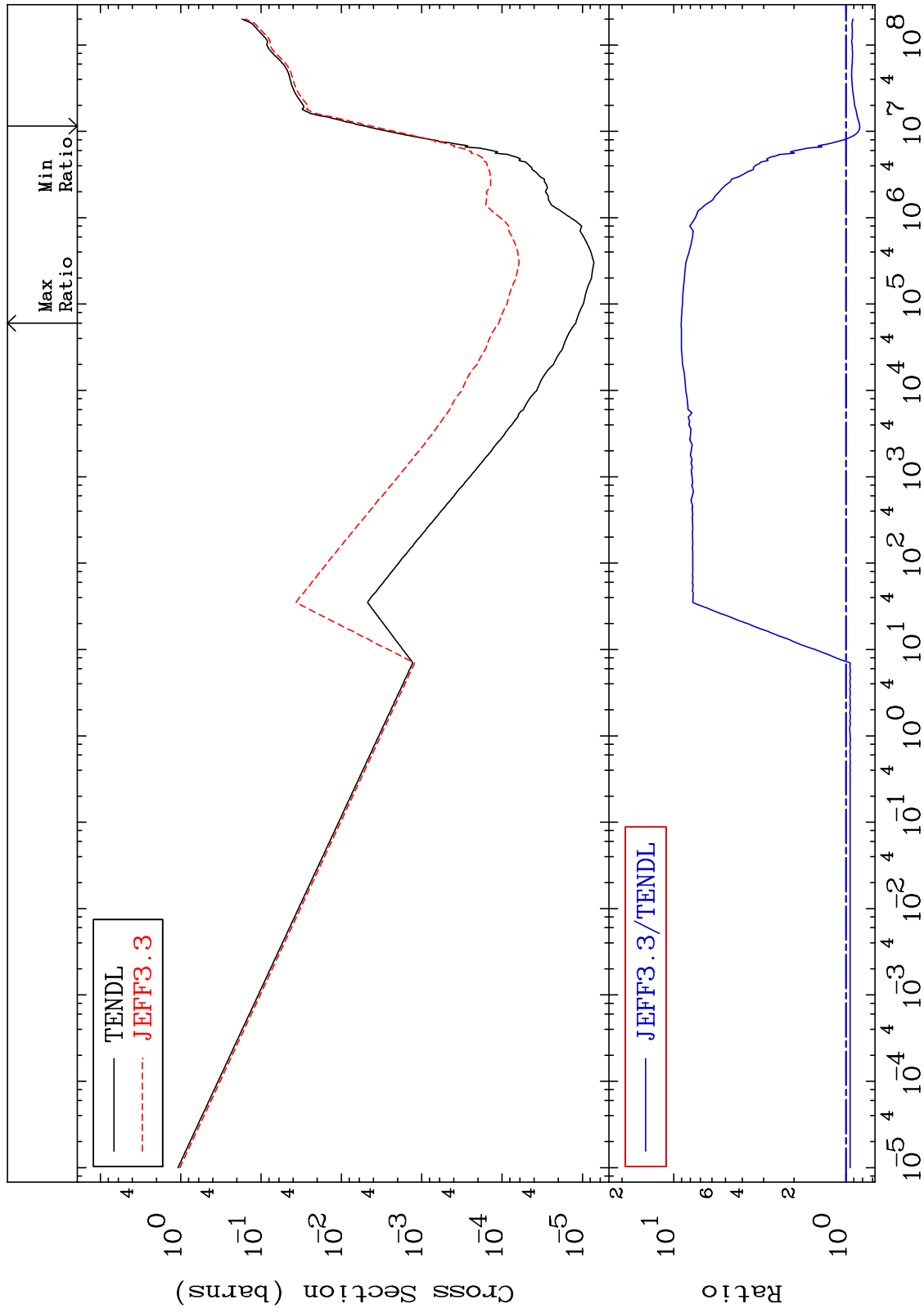
Incident Energy (eV)

60-Nd-143

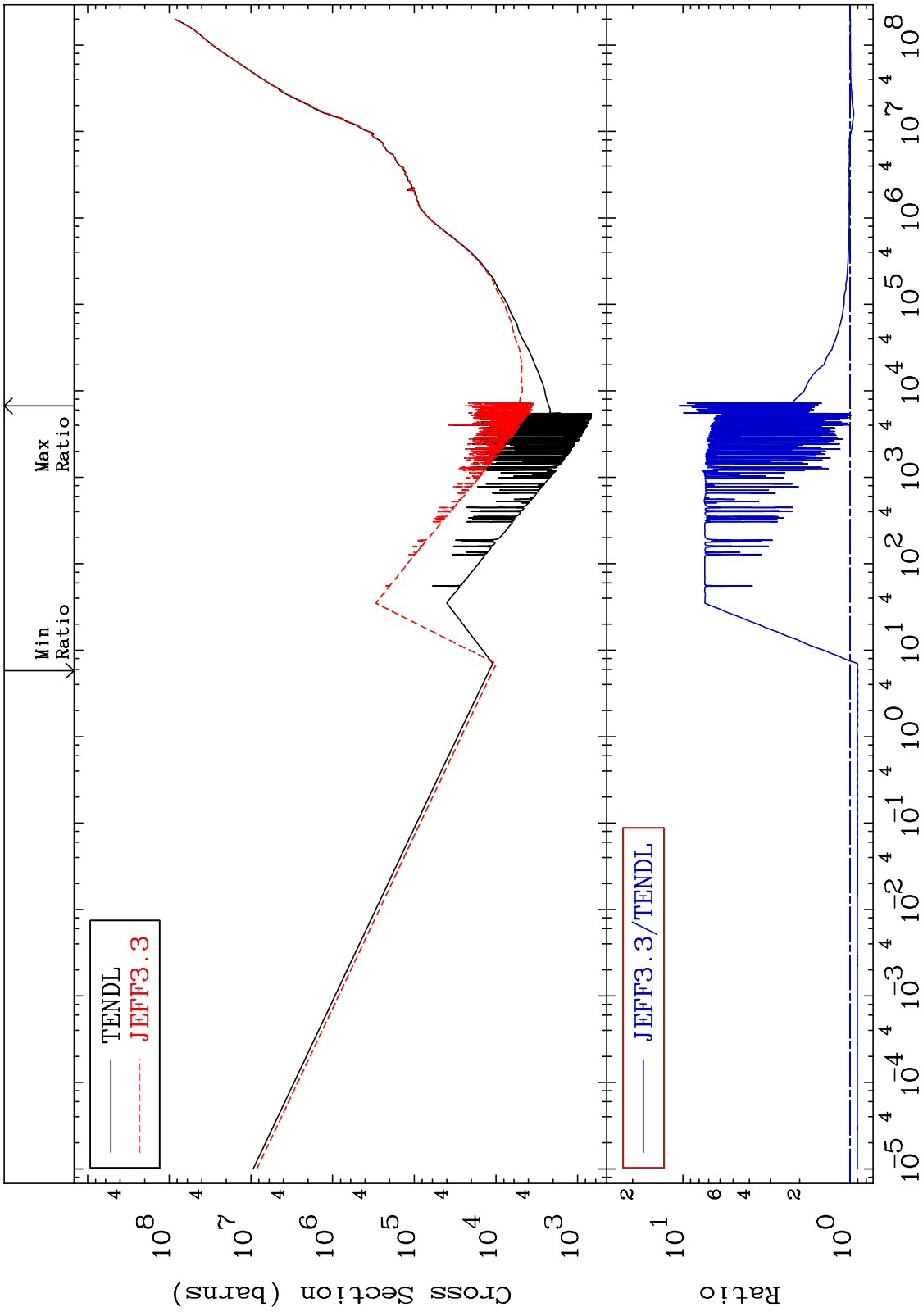
MAT 6028

He-4 Production
Cross Section

60-Nd-143
-16.96 To 804.8 %



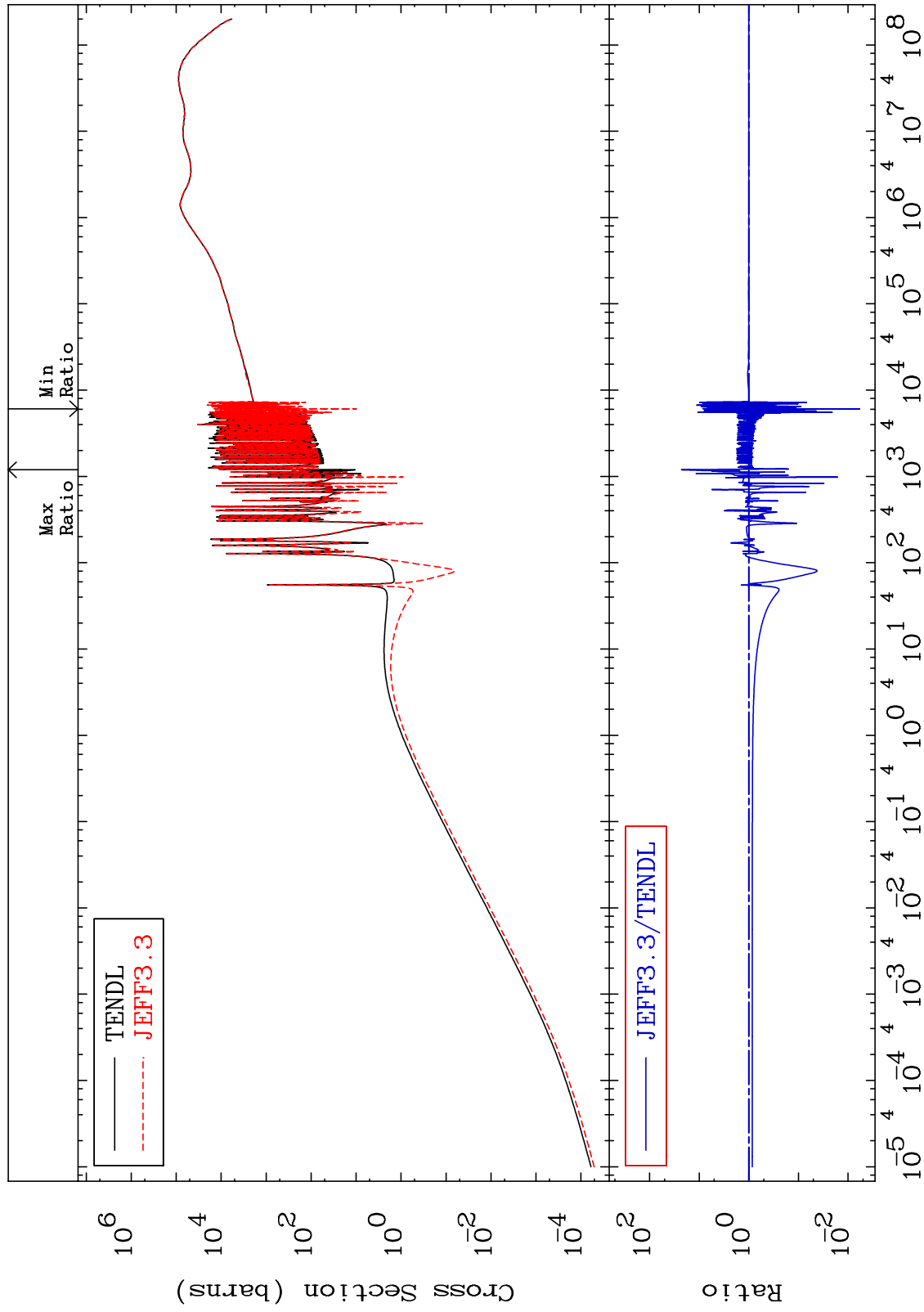
MAT 6028 Kerma total (eV-barns) Cross Section 60-Nd-143 -10.18 To 954.4 %



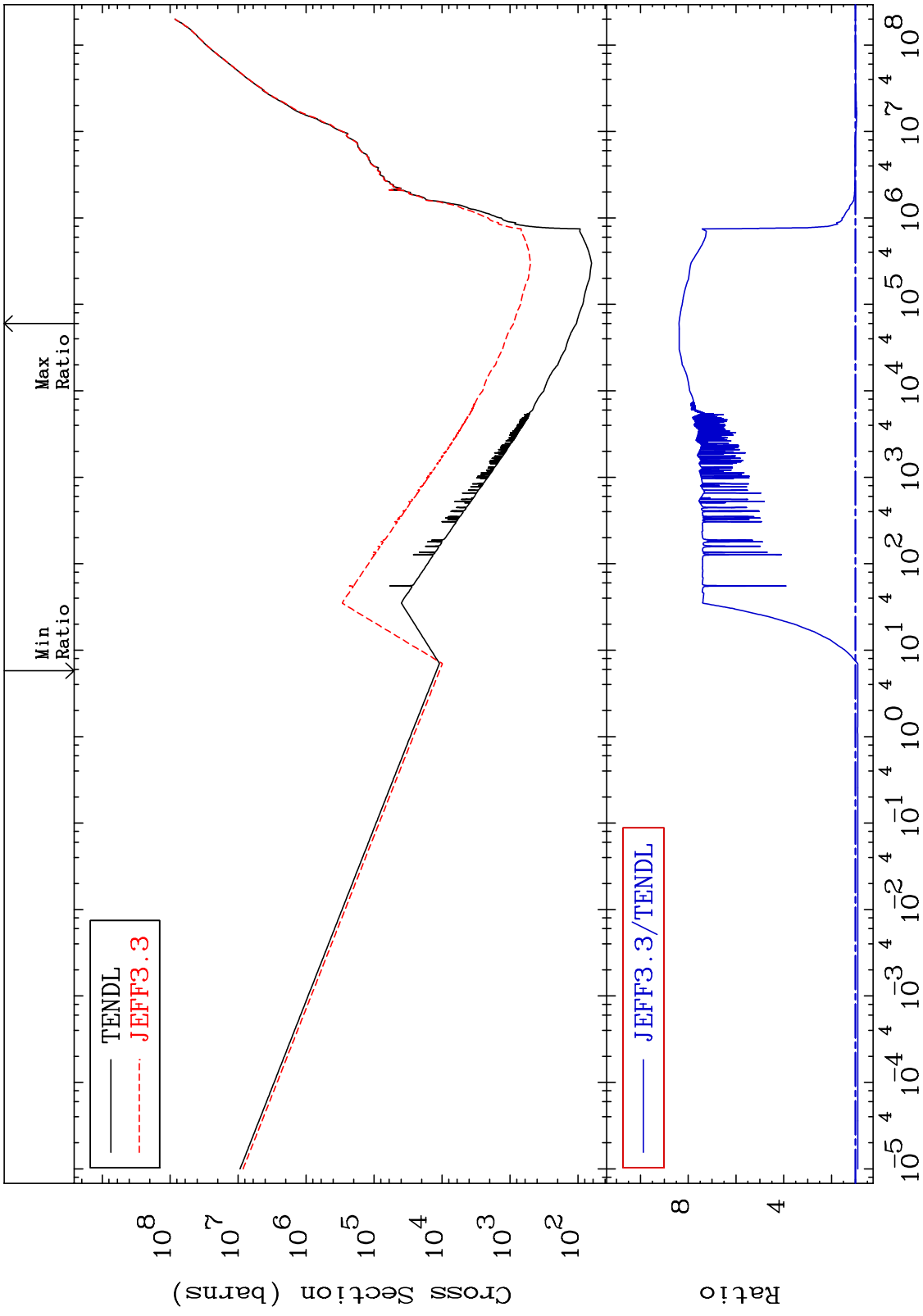
MAT 6028

Kerma elastic
Cross Section

60-Nd-143
-99.42 To 2179. %

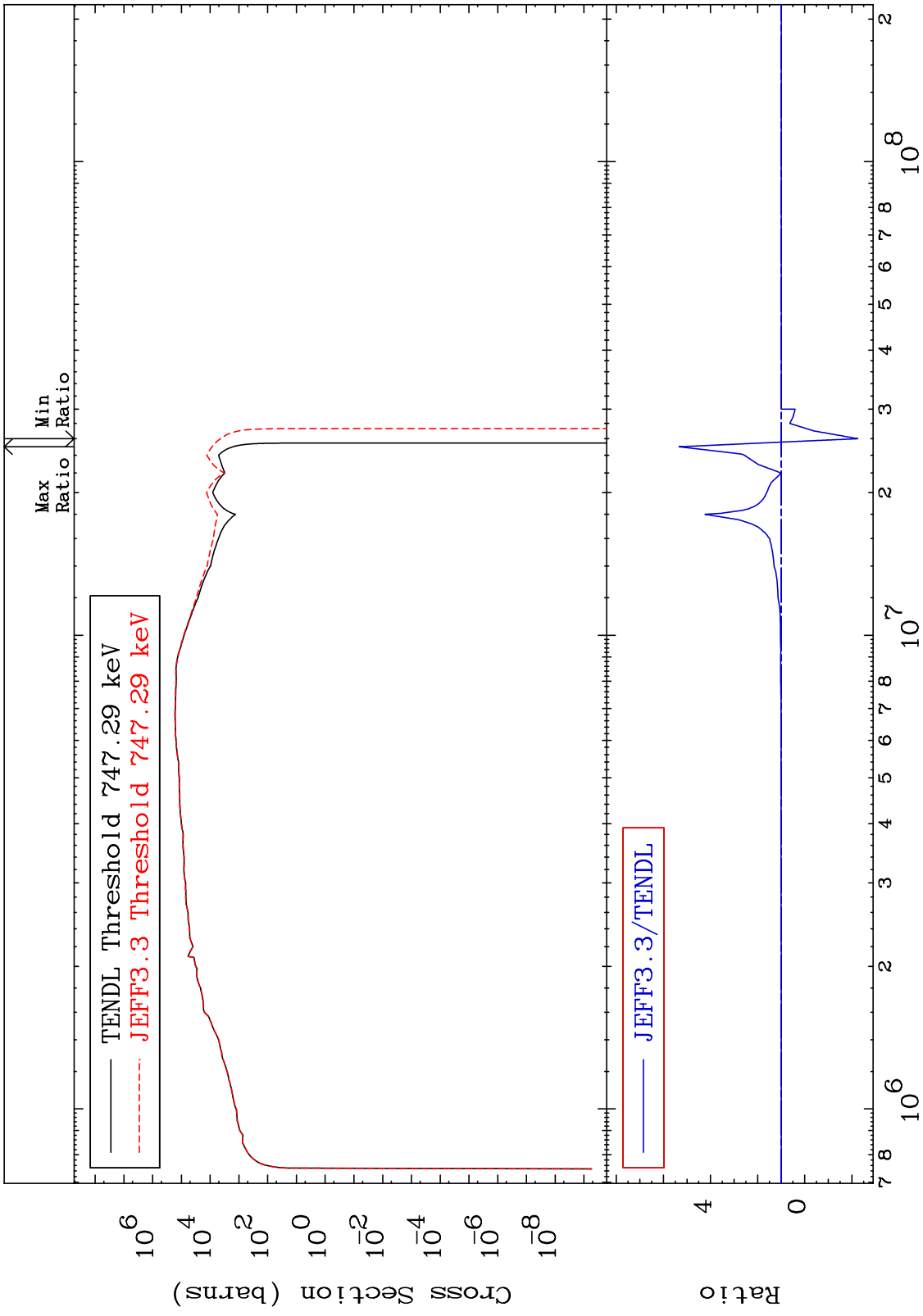


MAT 6028 Kerma non-elastic (all but mt2) 60-Nd-143
 -10.18 To 738.3 %
 Cross Section



70 Incident Energy (eV) 60-Nd-143

MAT 6028 Kerma inelastic (mt51-91) 60-Nd-143
 -325.5 To 433.7 %
 Cross Section

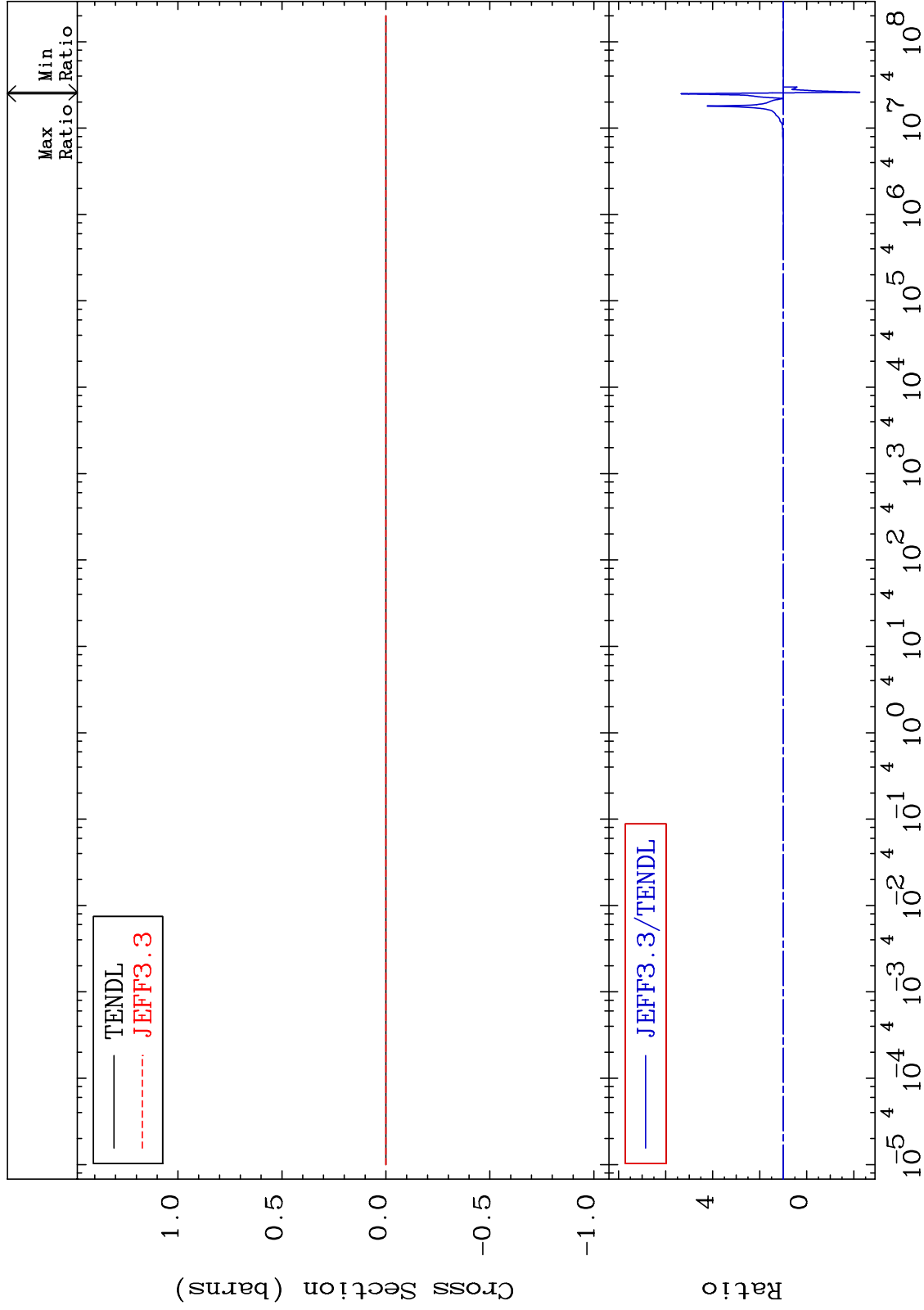


71 Incident Energy (eV) 60-Nd-143

MAT 6028

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

60-Nd-143
-325.5 To 433.7 %



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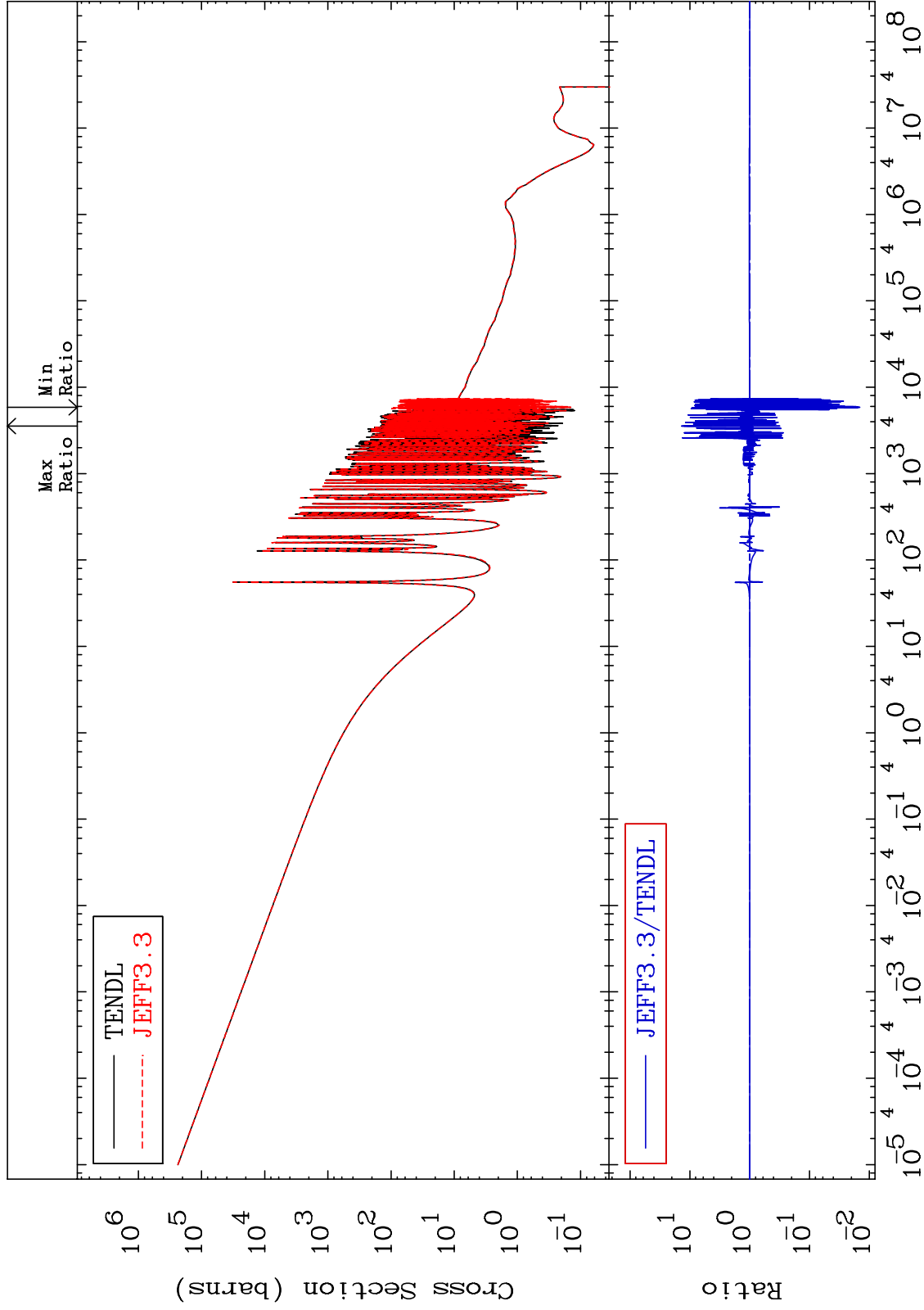
Incident Energy (eV)

60-Nd-143

MAT 6028

Kerma capture (mt102)
Cross Section

60-Nd-143
-98.55 To 1293. %

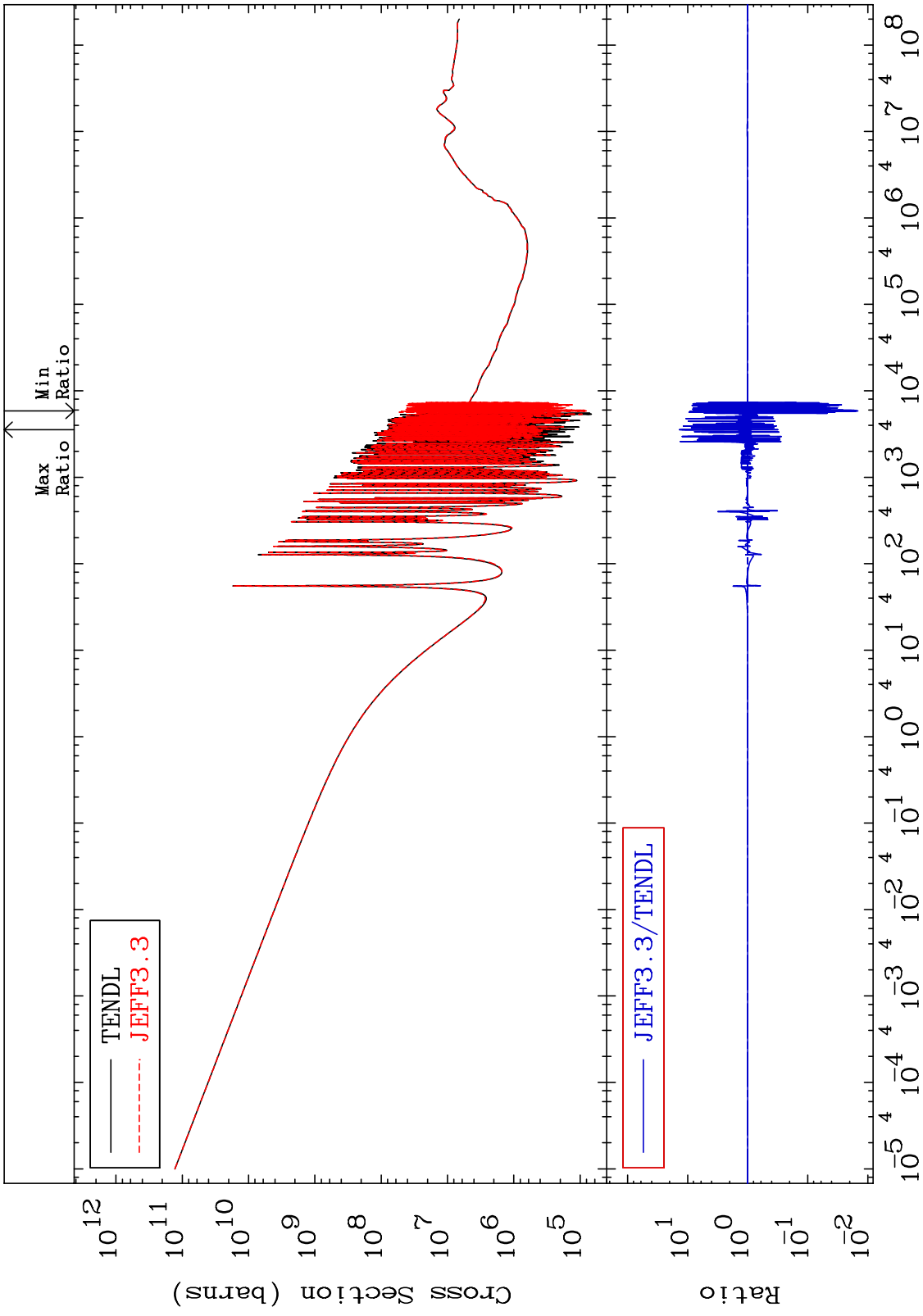


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Incident Energy (eV)

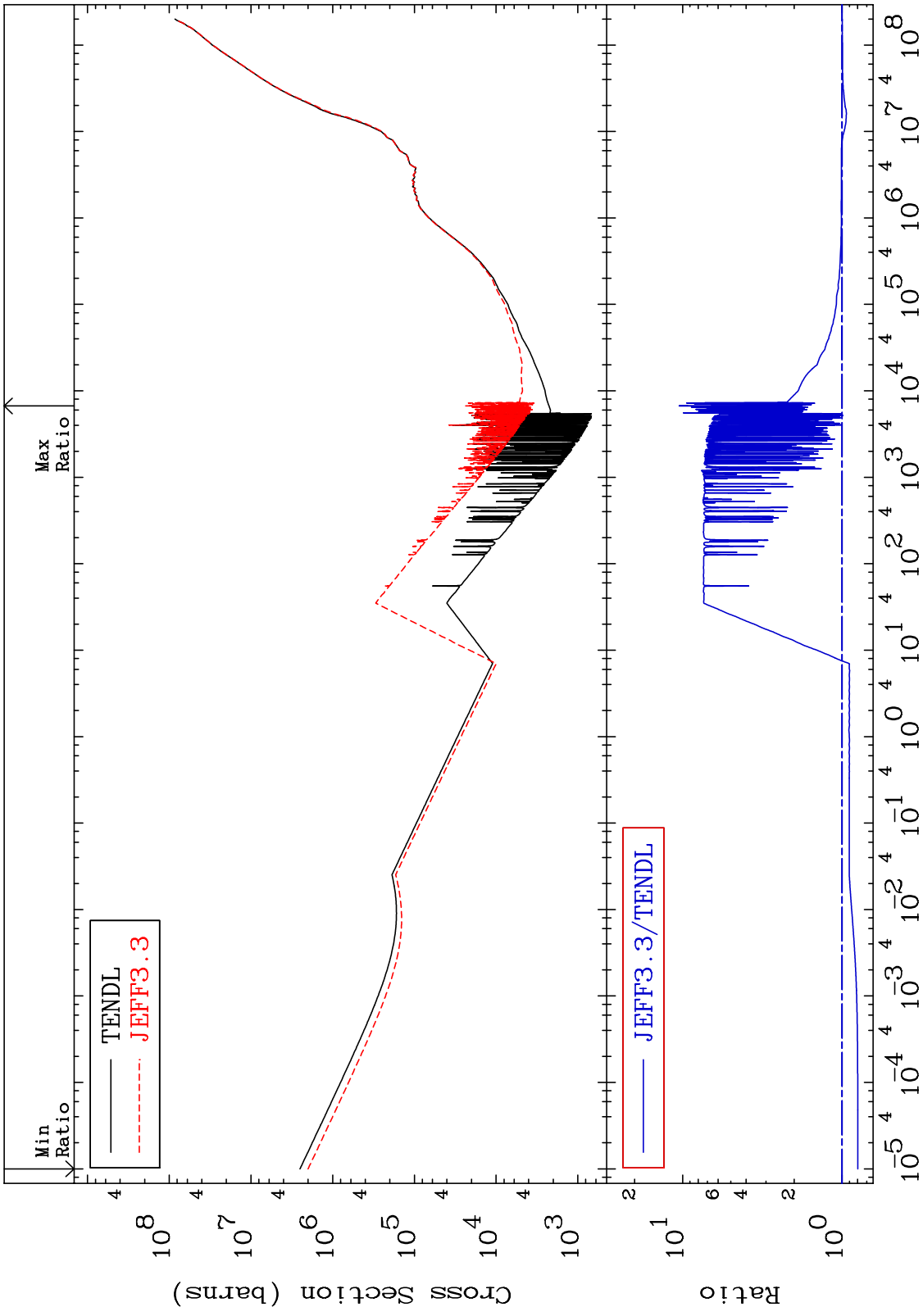
60-Nd-143

MAT 6028 60-Nd-143
-98.54 To 1293. %
 Total photon (eV-barns)
 Cross Section



74 Incident Energy (eV) 60-Nd-143

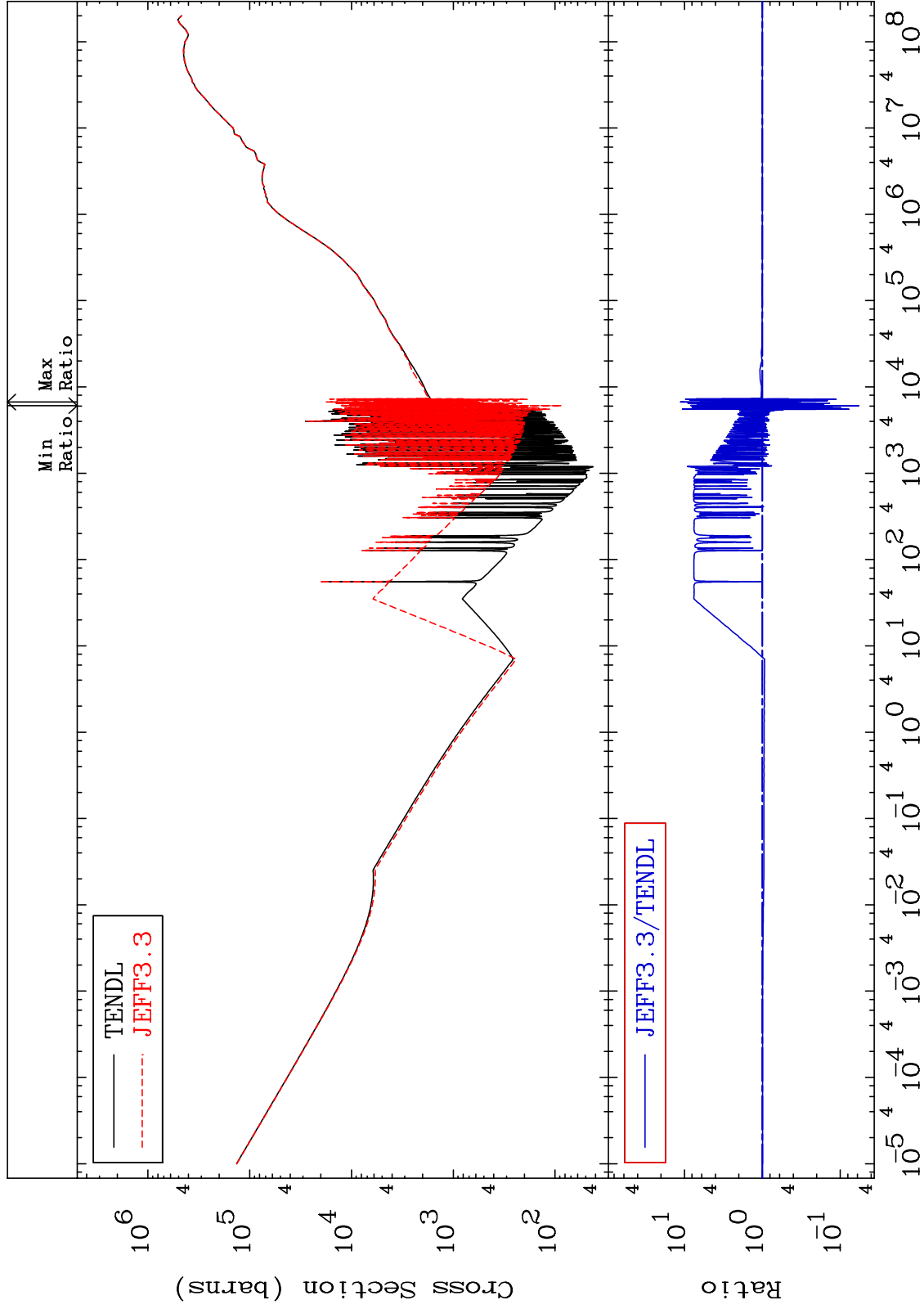
MAT 6028 Total kinematic kerma (high limit) 60-Nd-143
 Cross Section -20.30 To 953.9 %



MAT 6028

Dpa total (eV-barns)
Cross Section

60-Nd-143
-94.27 To 1020. %



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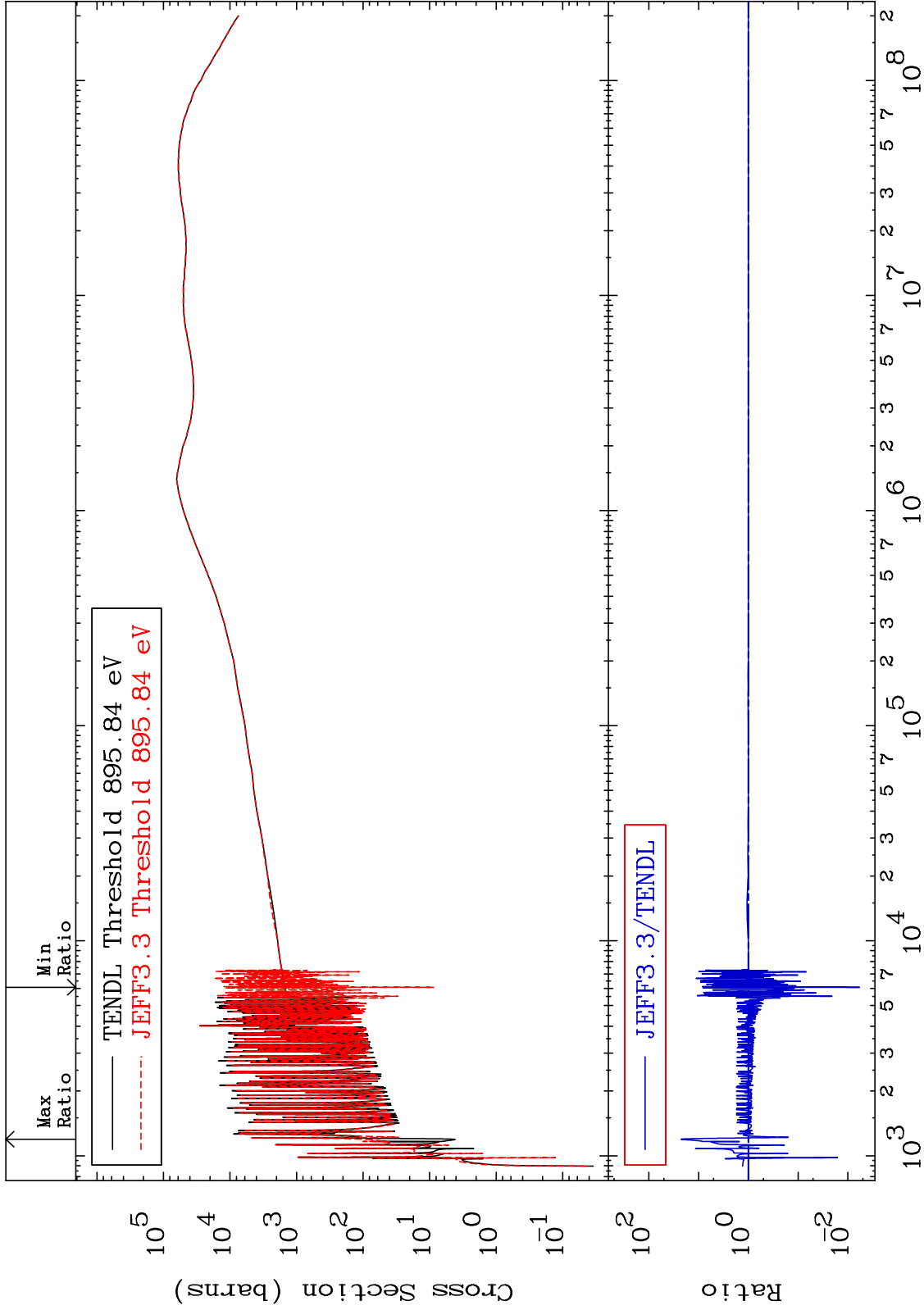
Incident Energy (eV)

60-Nd-143

MAT 6028

Dpa elastic (mt2)
Cross Section

60-Nd-143
-99.42 To 2179. %

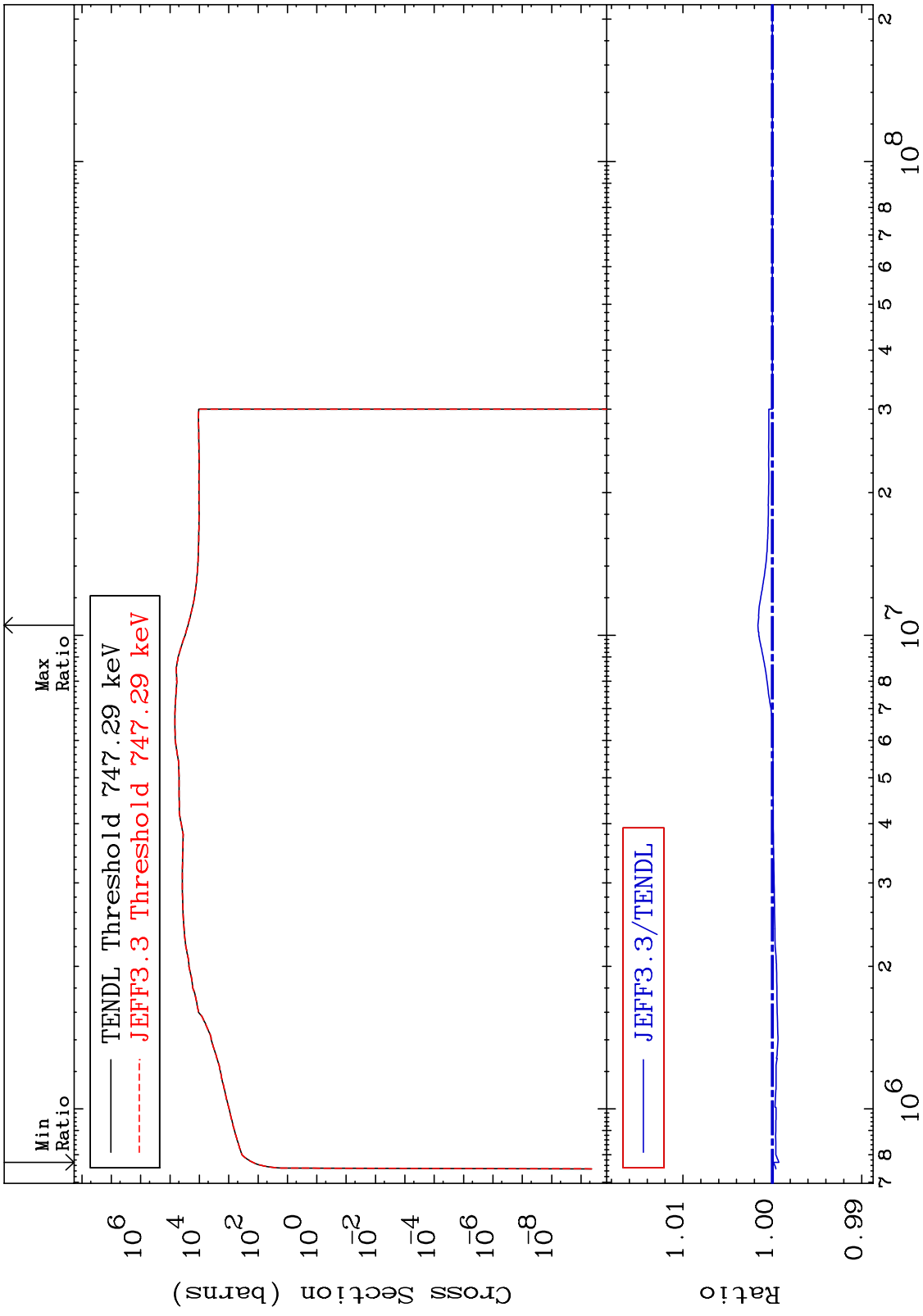


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Incident Energy (eV)

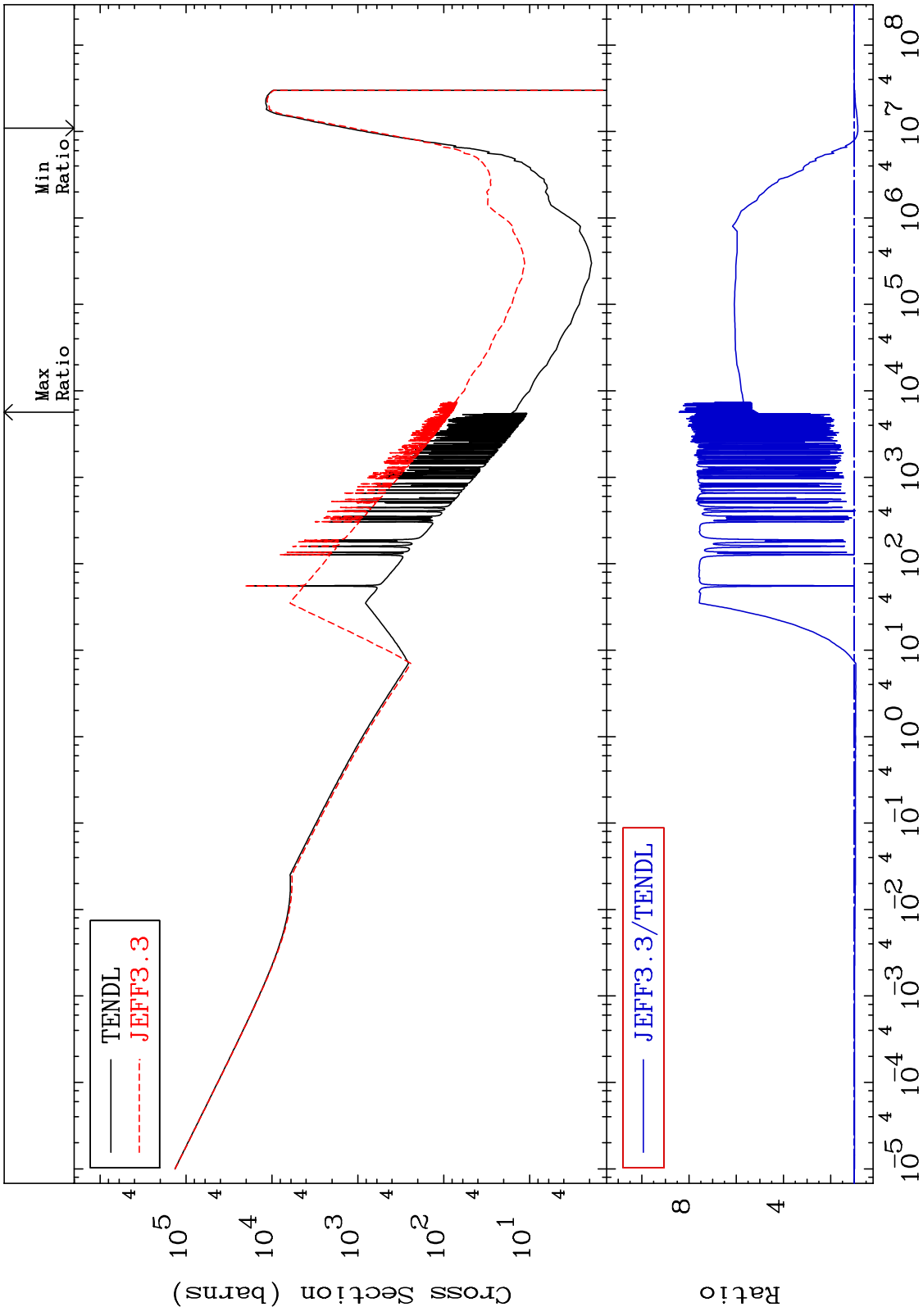
60-Nd-143

MAT 6028 Dpa inelastic (mt51-91) 60-Nd-143
Cross Section -0.074 To 0.160 %



78 Incident Energy (eV) 60-Nd-143

MAT 6028 Dpa disappearance (mt102 -120) 60-Nd-143
 Cross Section -14.93 To 742.1 %

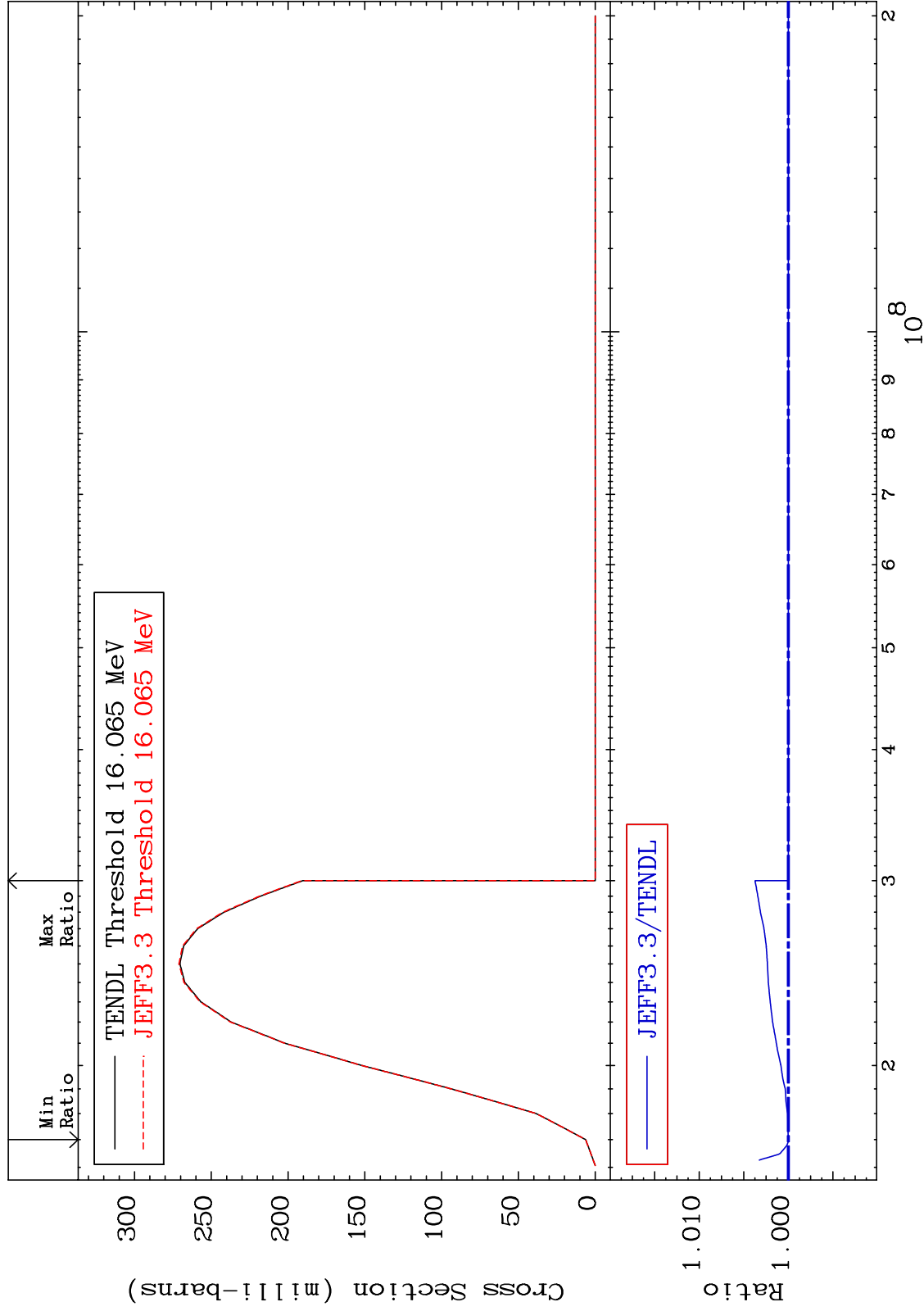


MAT 6028

(n,3n):60-Nd-141g

60-Nd-143

Radionuclide Production Cross Section -0.007 To 0.373 %



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Incident Energy (eV)

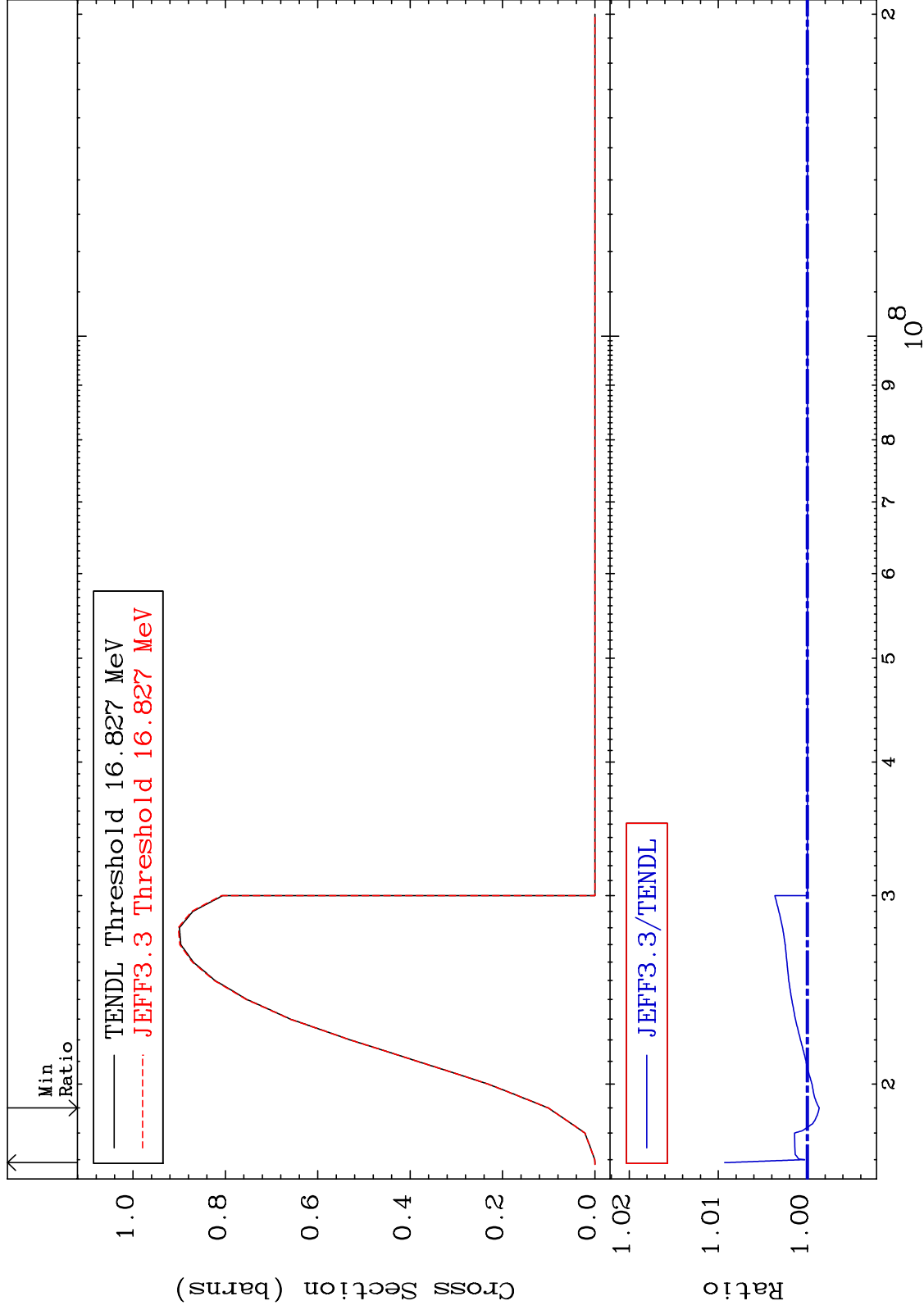
60-Nd-143

MAT 6028

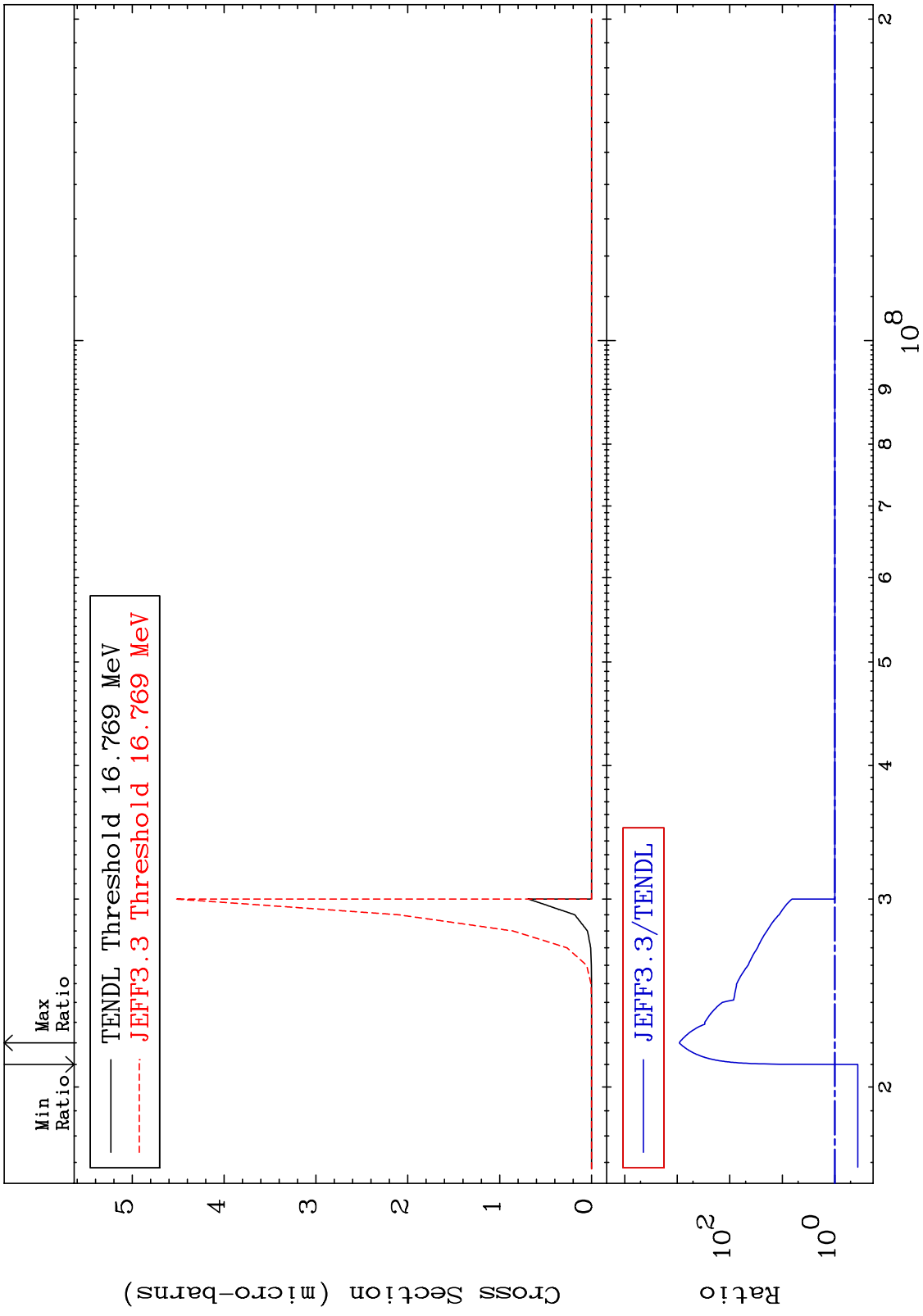
(n,3n):60-Nd-141m2

60-Nd-143

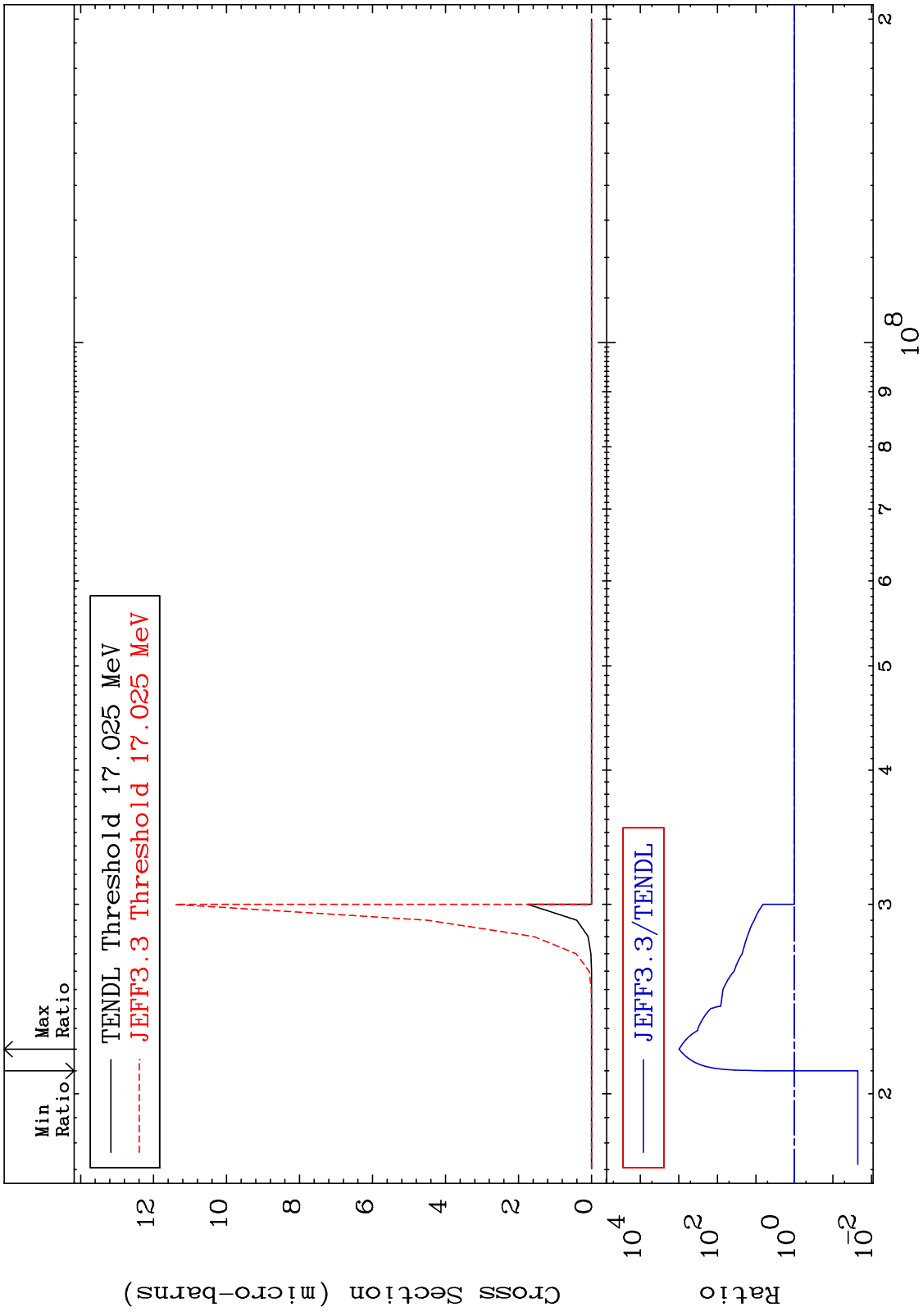
Radionuclide Production Cross Section -0.133 To 0.930 %



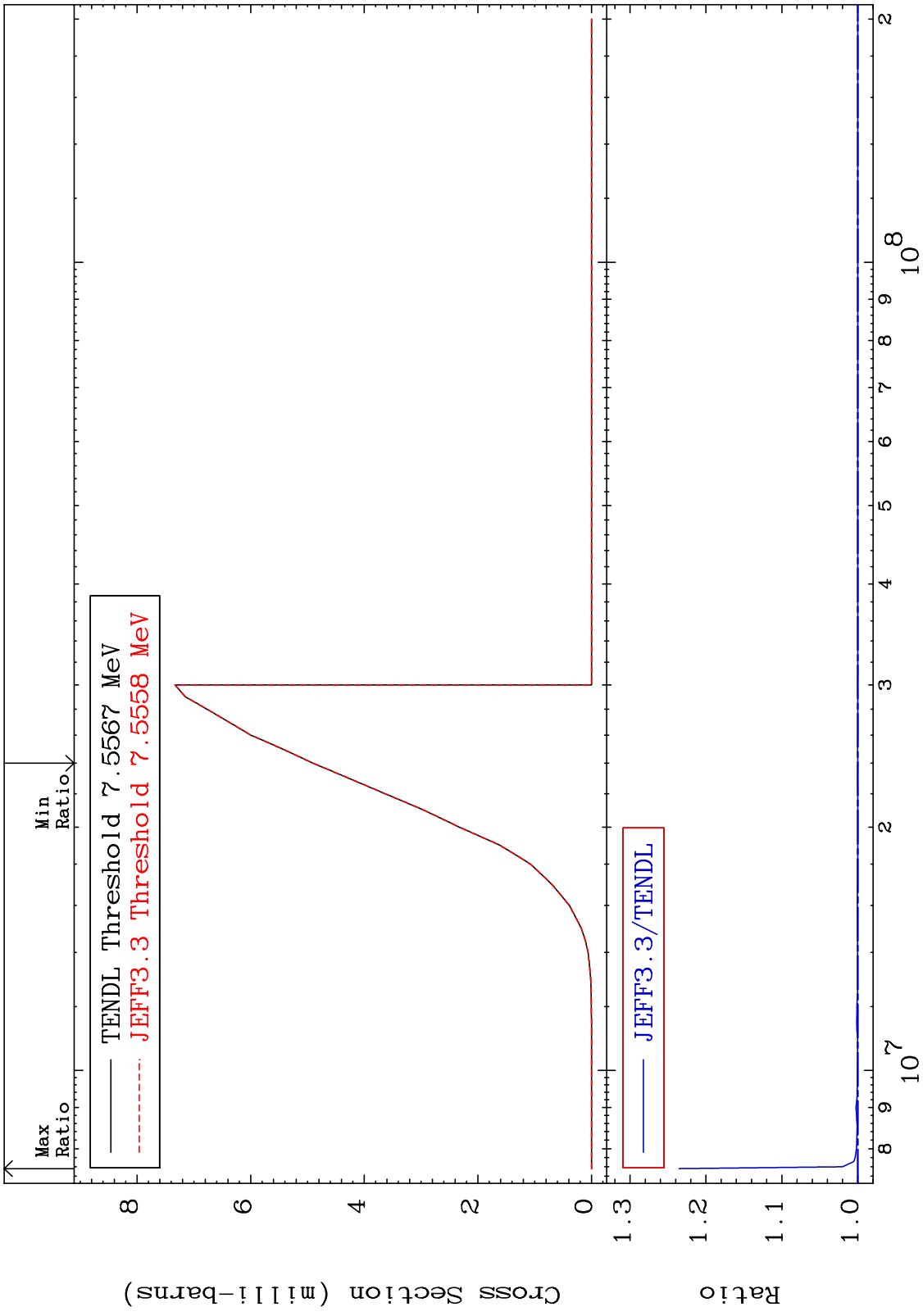
MAT 6028 (n,3n) α :58-Ce-137g 60-Nd-143
 Radionuclide Production Cross Section -63.50 To 9999. %



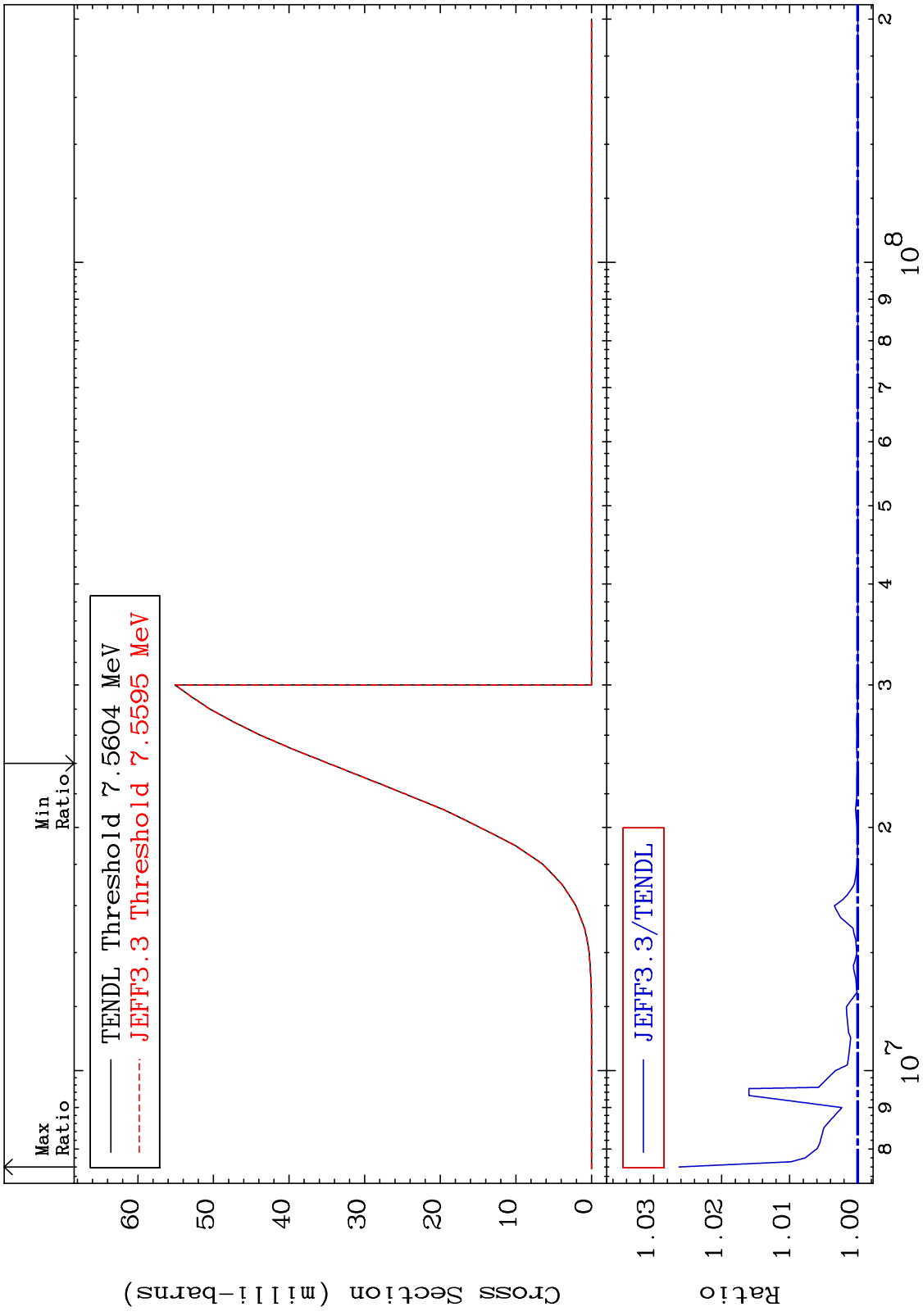
MAT 6028 (n,3n) α :58-Ce-137m2 60-Nd-143
 Radionuclide Production Cross Section -97.74 To 9999. %



MAT 6028 (n,n') p:59-Pr-142g 60-Nd-143
 Radionuclide Production Cross Section -0.008 To 23.55 %

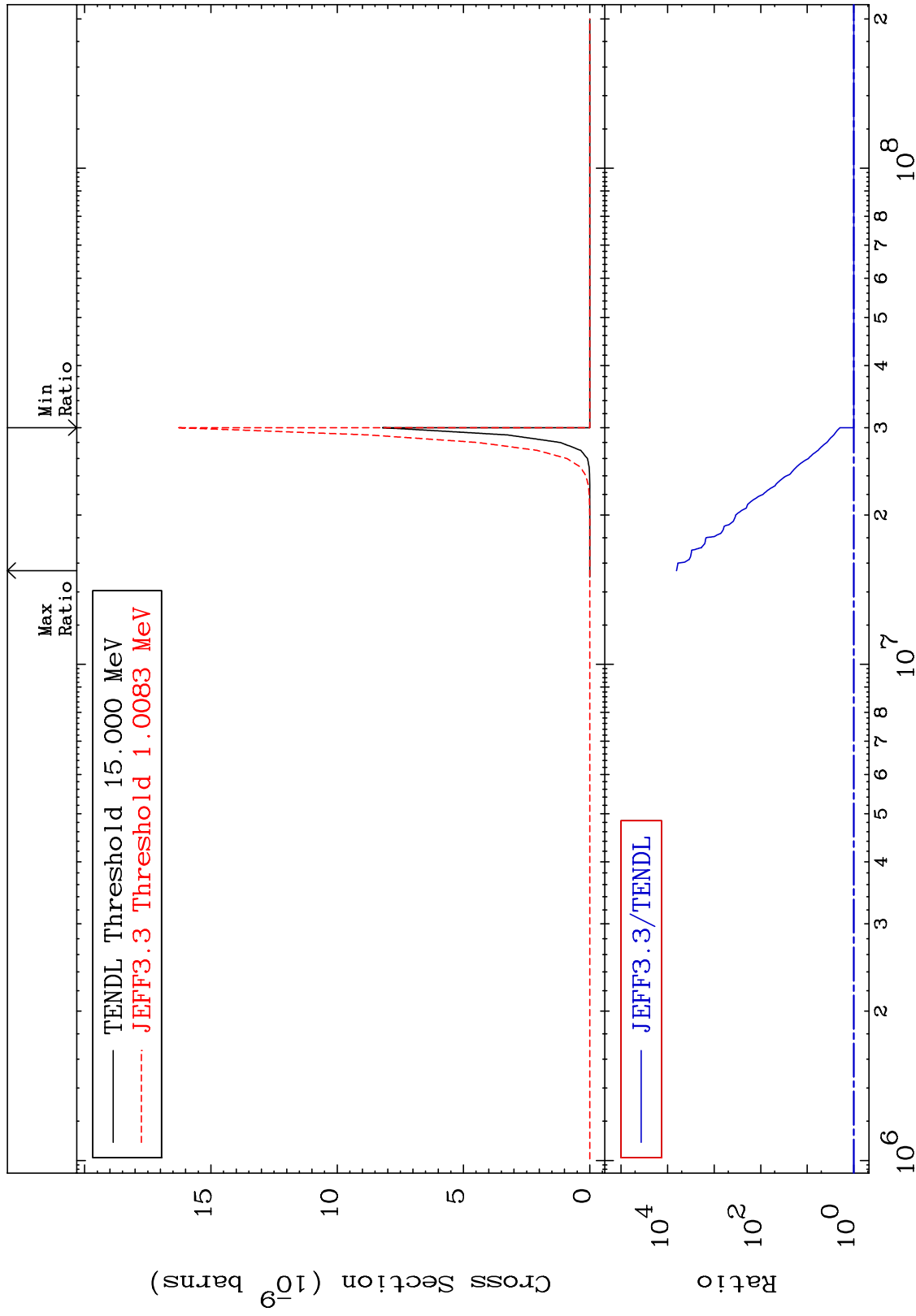


MAT 6028 (n,n') p:59-Pr-142m1 60-Nd-143
 Radionuclide Production Cross Section -0.002 To 2.627 %



MAT 6028

(n,n') 2α:56-Ba-135g 60-Nd-143
Radionuclide Production Cross Section 0.000 To 9999. %

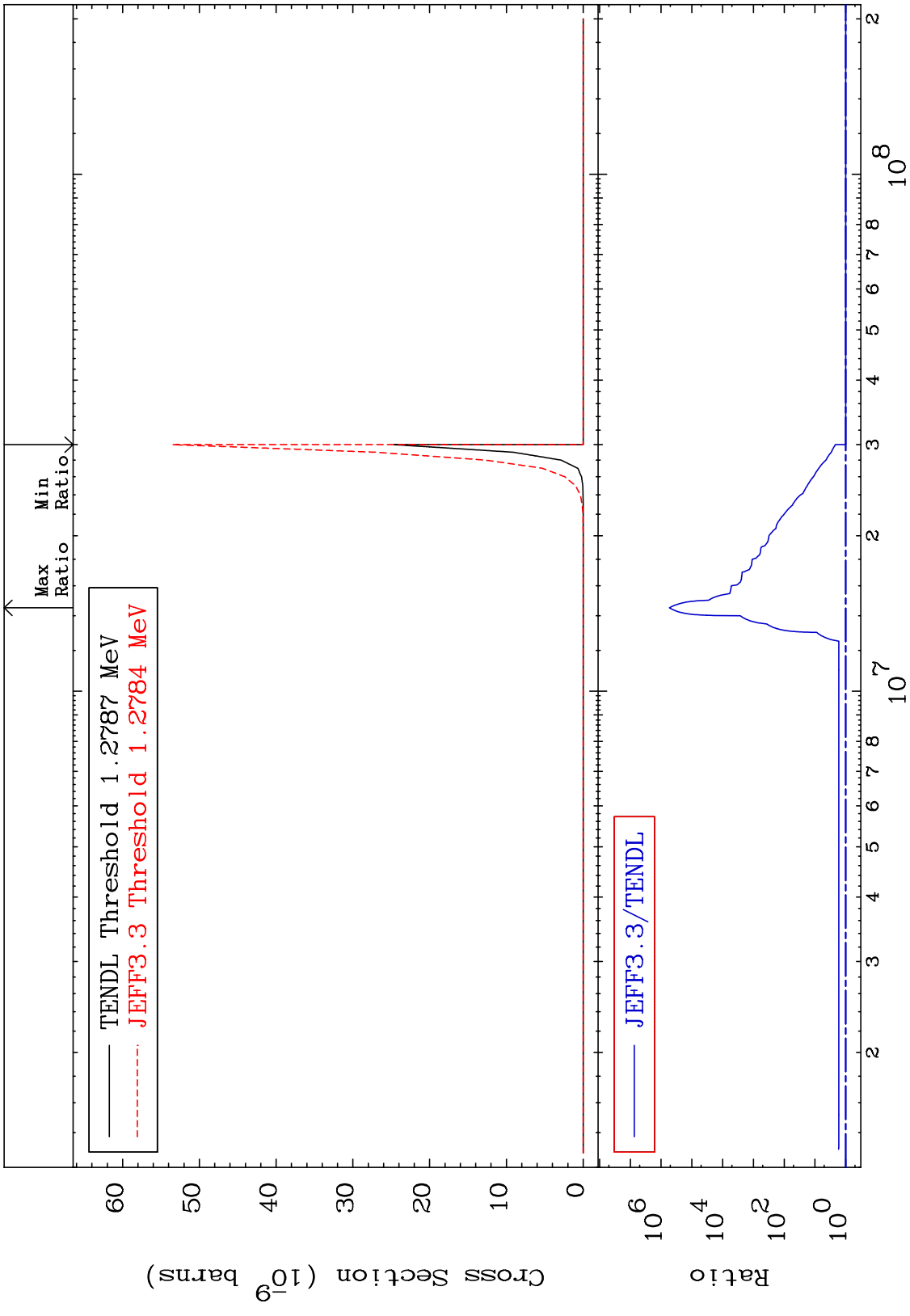


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Incident Energy (eV)

60-Nd-143

MAT 6028 (n,n') 2α:56-Ba-135m2 60-Nd-143
 Radionuclide Production Cross Section 0.000 To 9999. %

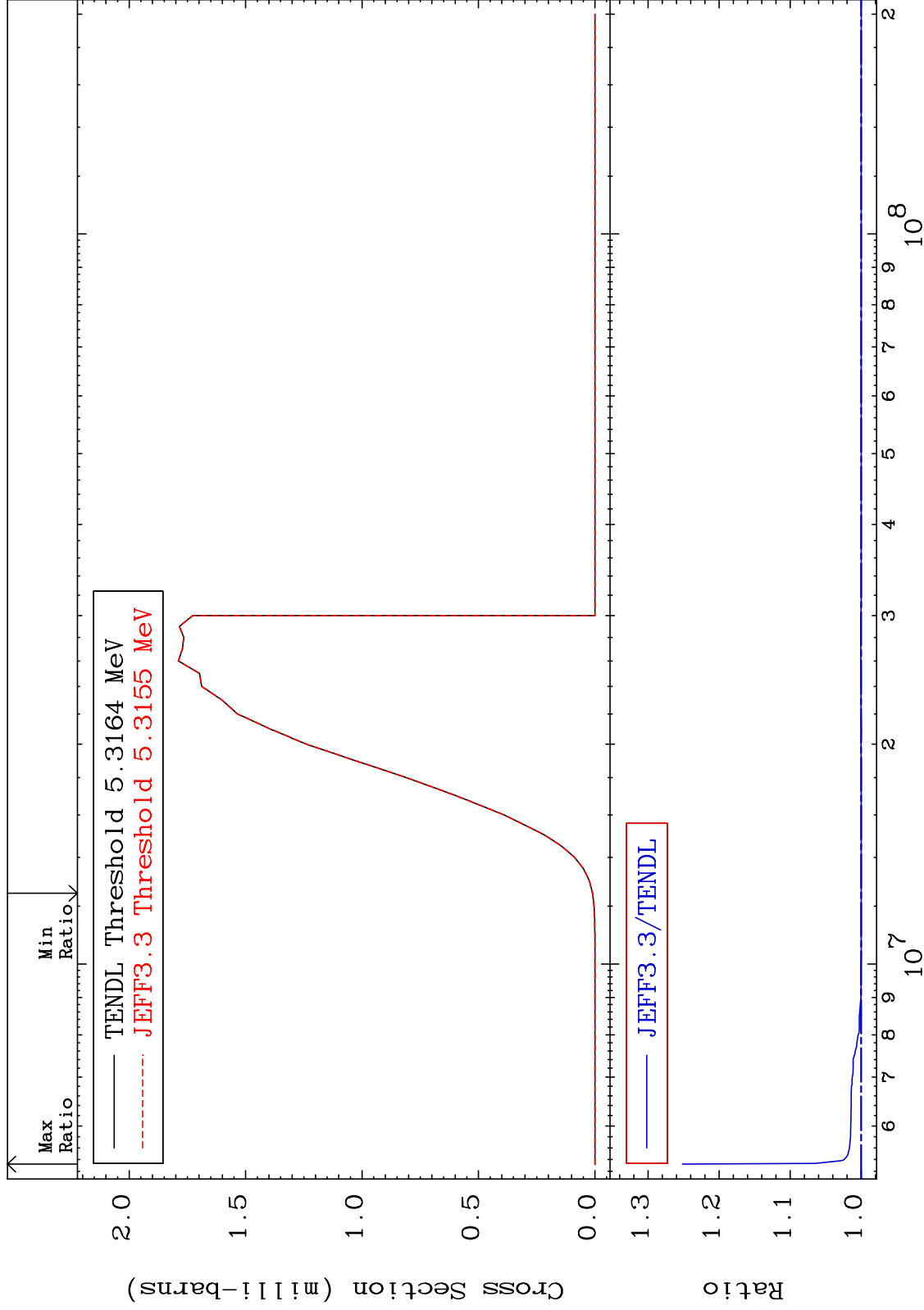


MAT 6028

(n,d):59-Pr-142g

60-Nd-143

Radionuclide Production Cross Section -0.021 To 25.16 %



MAT 6028

(n,d):59-Pr-142m1

60-Nd-143

Radionuclide Production Cross Section -0.682 To 7.668 %

