

Program Complot
(Version 2018-1)

by

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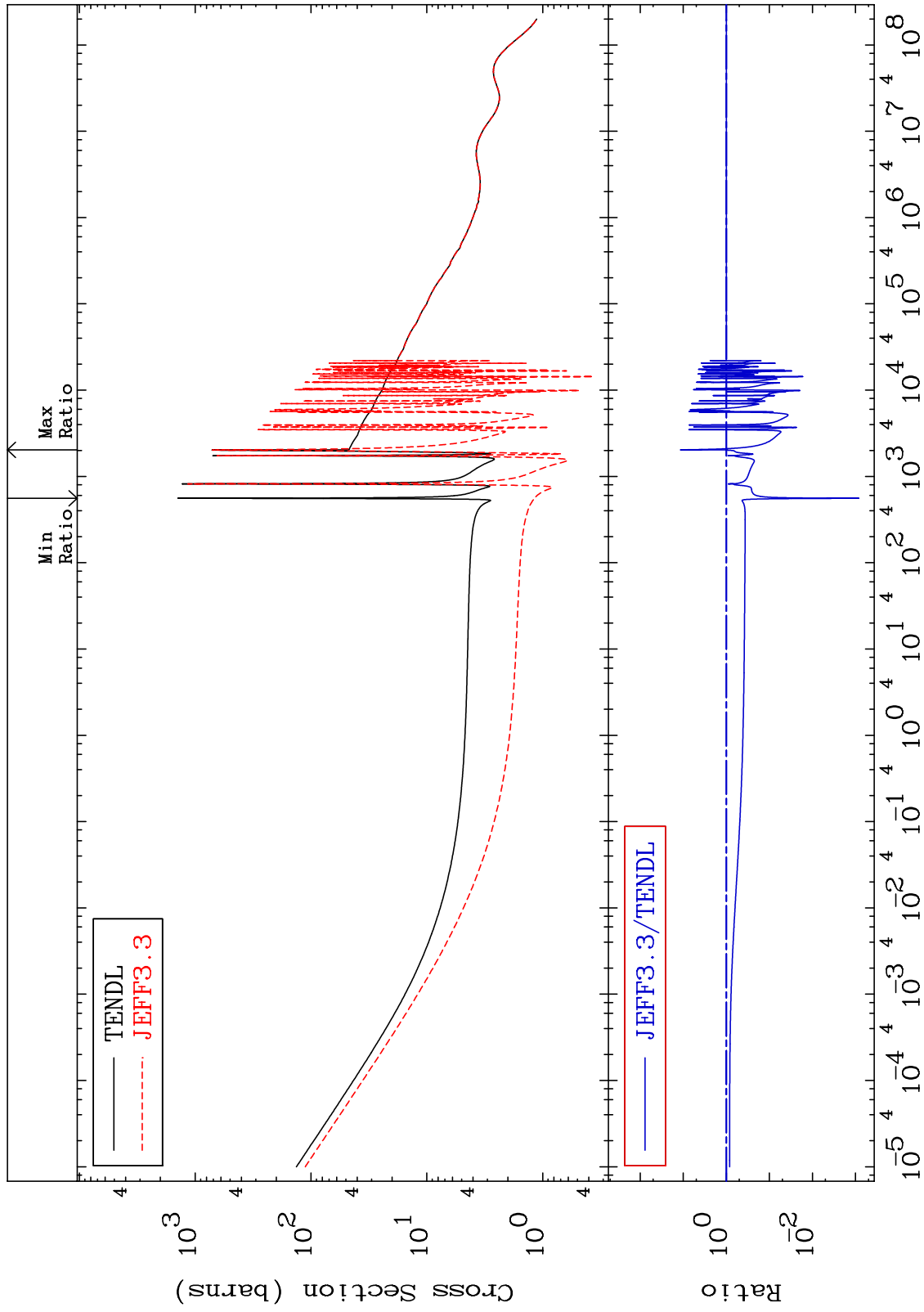
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 2728

Total
Cross Section

27-Co-60
-99.92 To 1049. %



Incident Energy (eV)

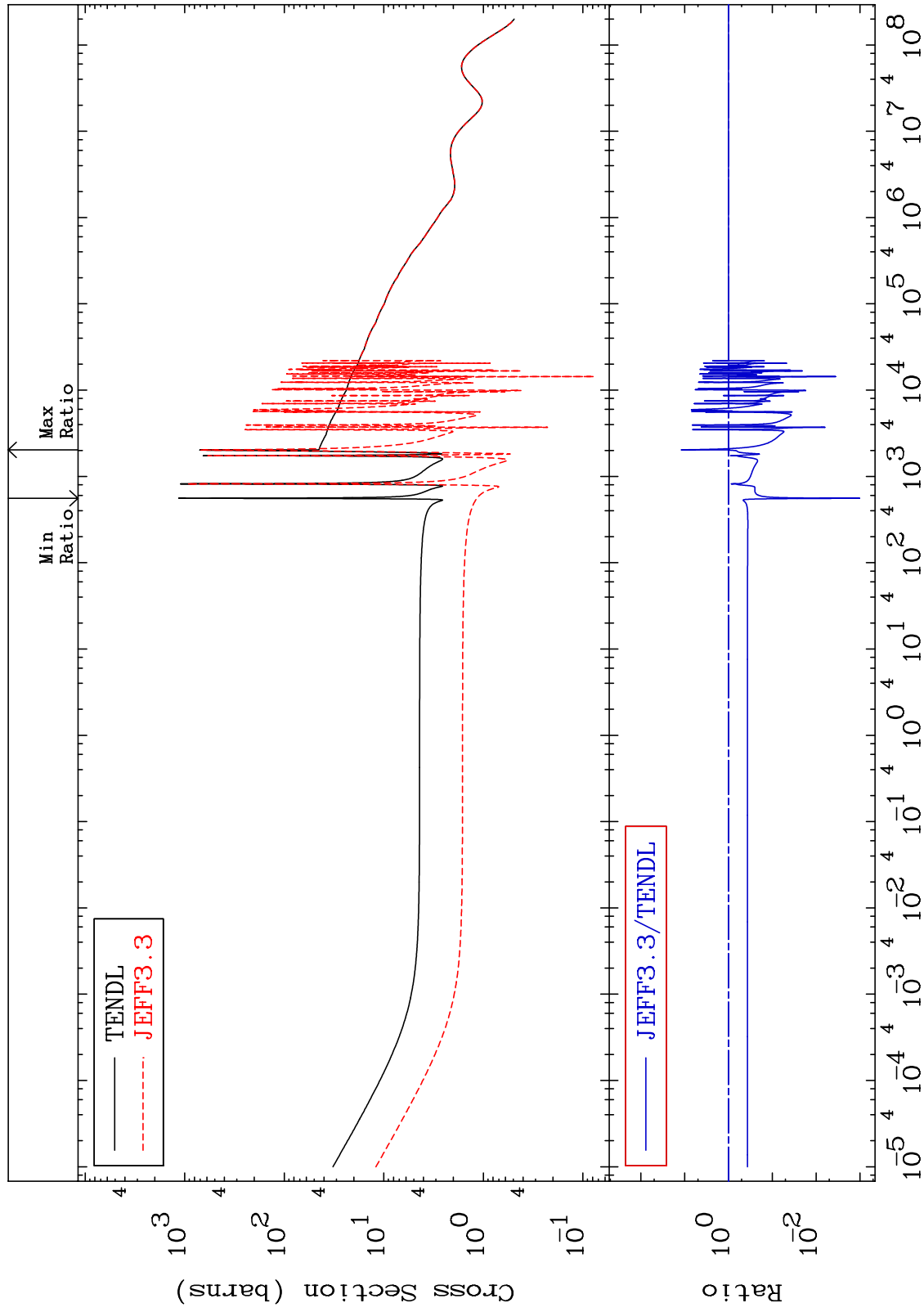
1

27-Co-60

MAT 2728

Elastic
Cross Section

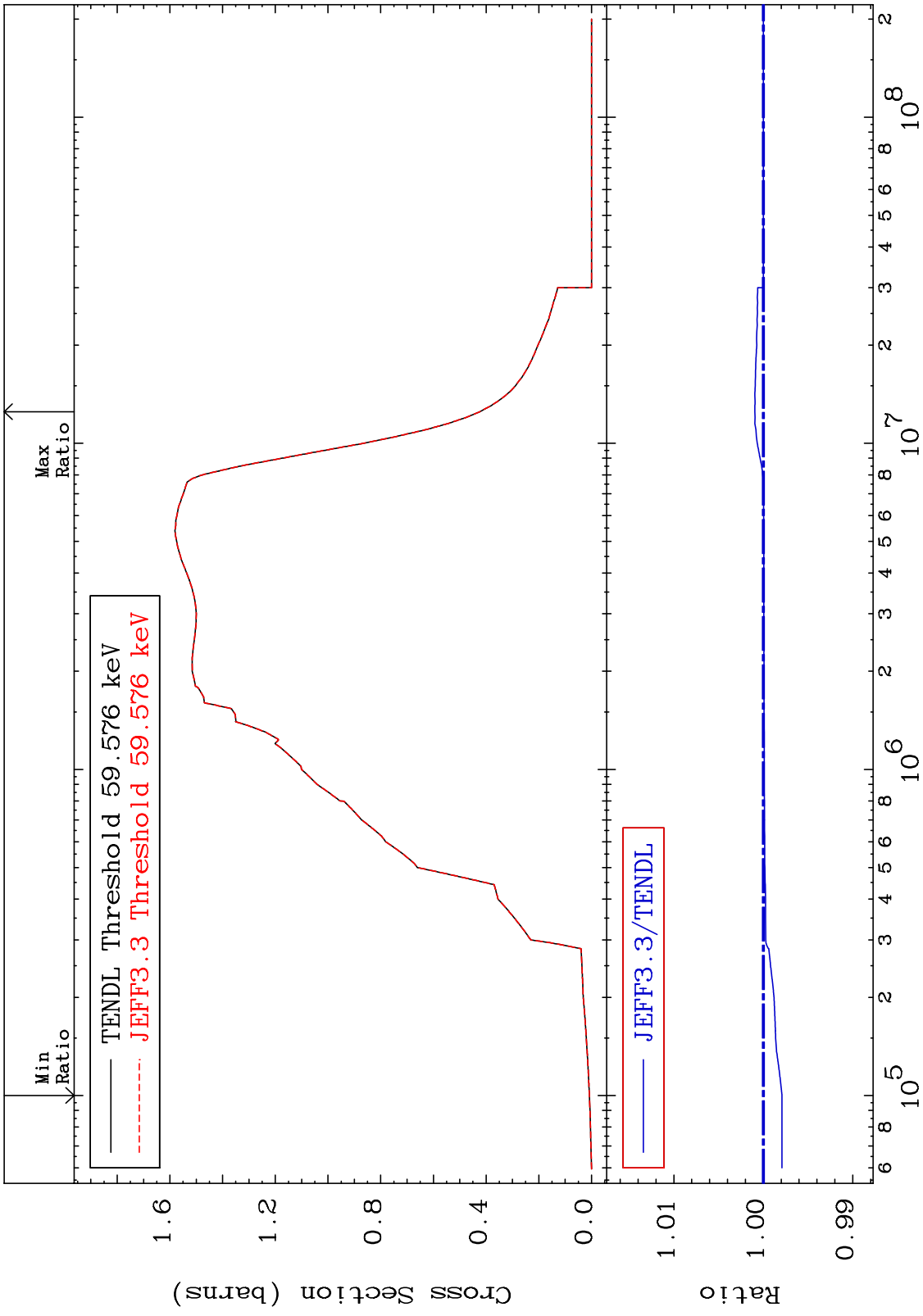
27-Co-60
-99.90 To 1084. %



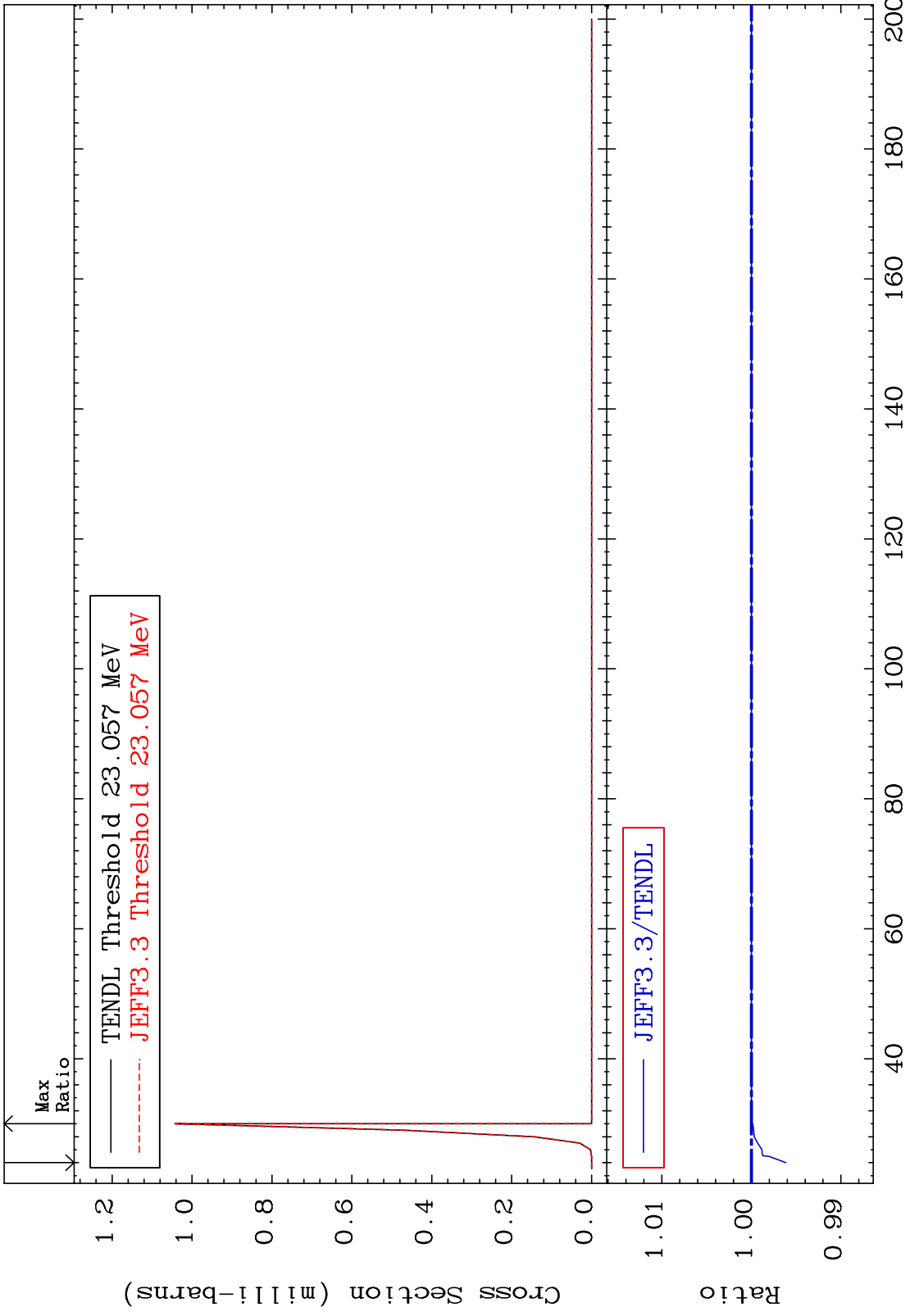
2

Incident Energy (eV)

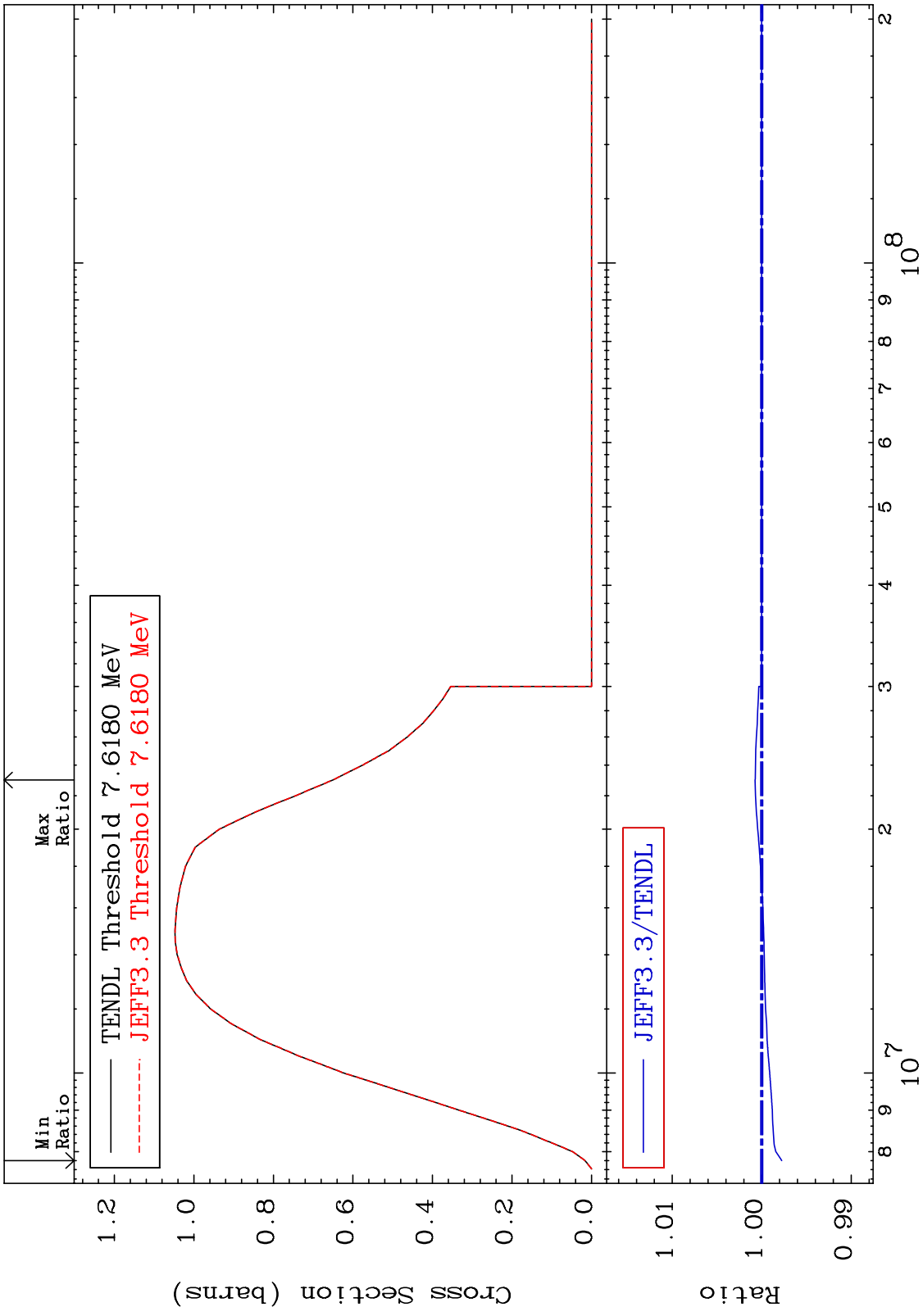
27-Co-60



MAT 2728 (n,2n) d 27-Co-60
 Cross Section -0.384 To 0.000 %

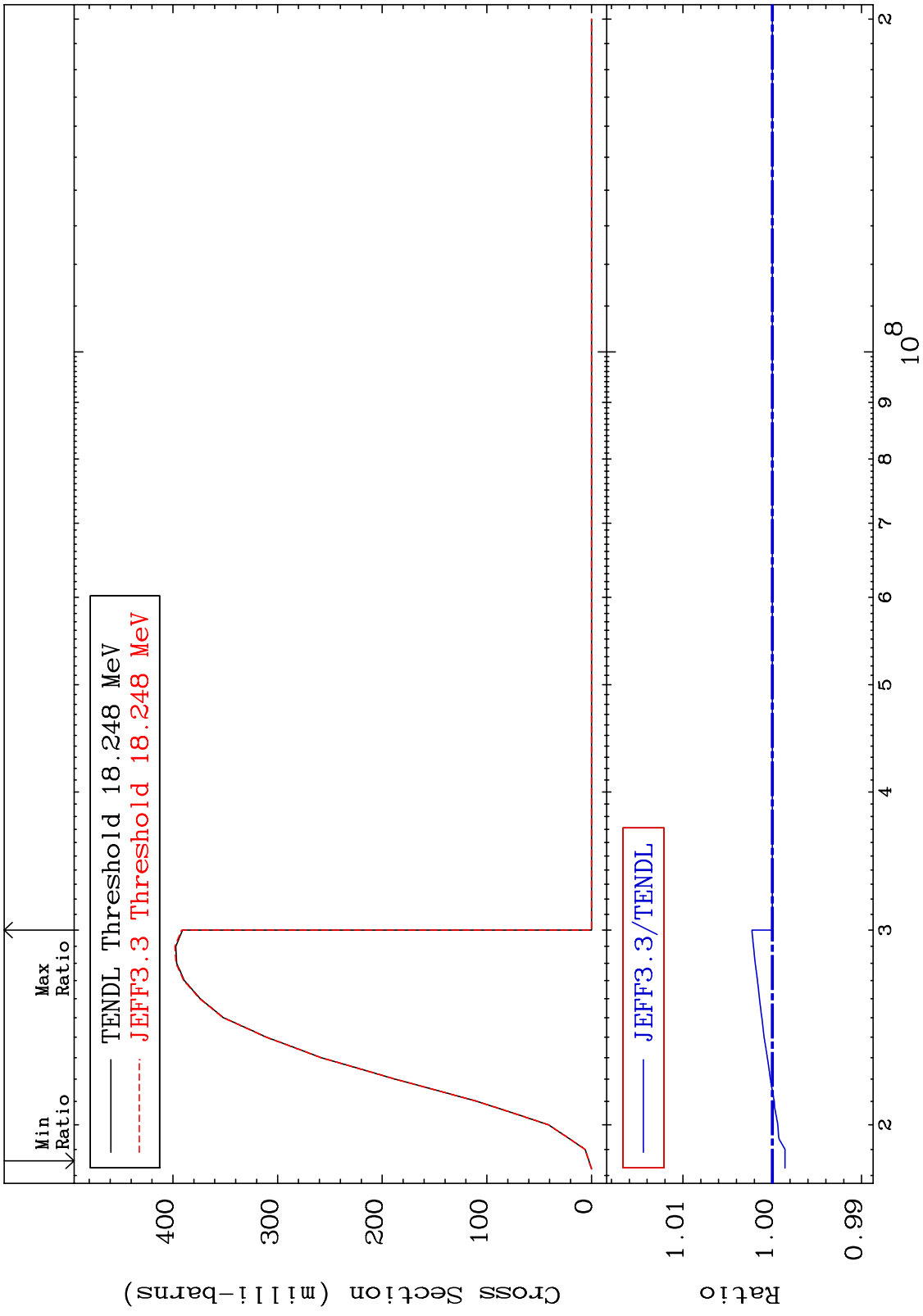


MAT 2728 $(n,2n)$ Cross Section 27-Co-60
 -0.224 To 0.073 %

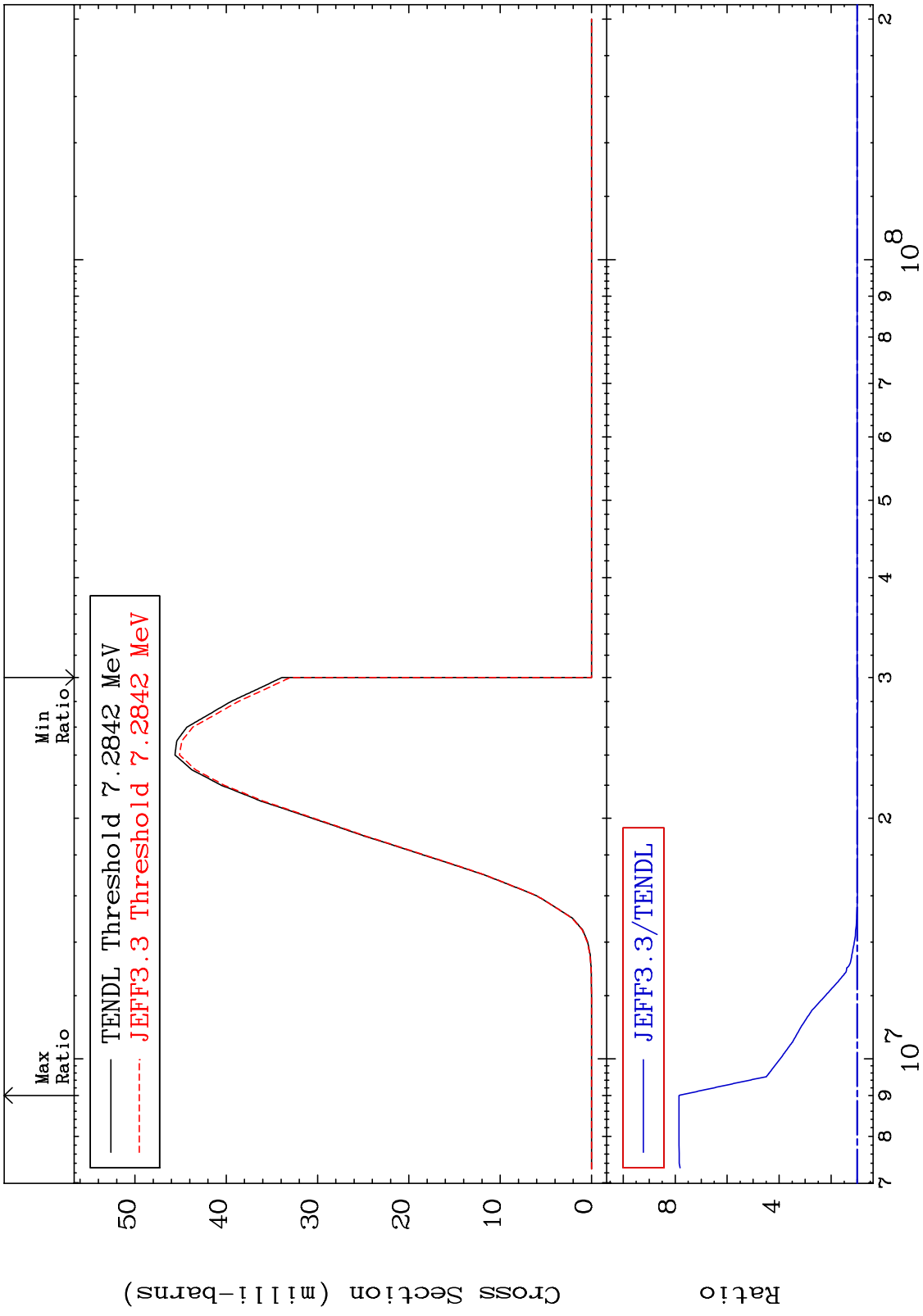


5 Incident Energy (eV) 27-Co-60

MAT 2728 $(n, 3n)$ Cross Section $^{27}\text{Co-60}$
 -0.143 To 0.228 %

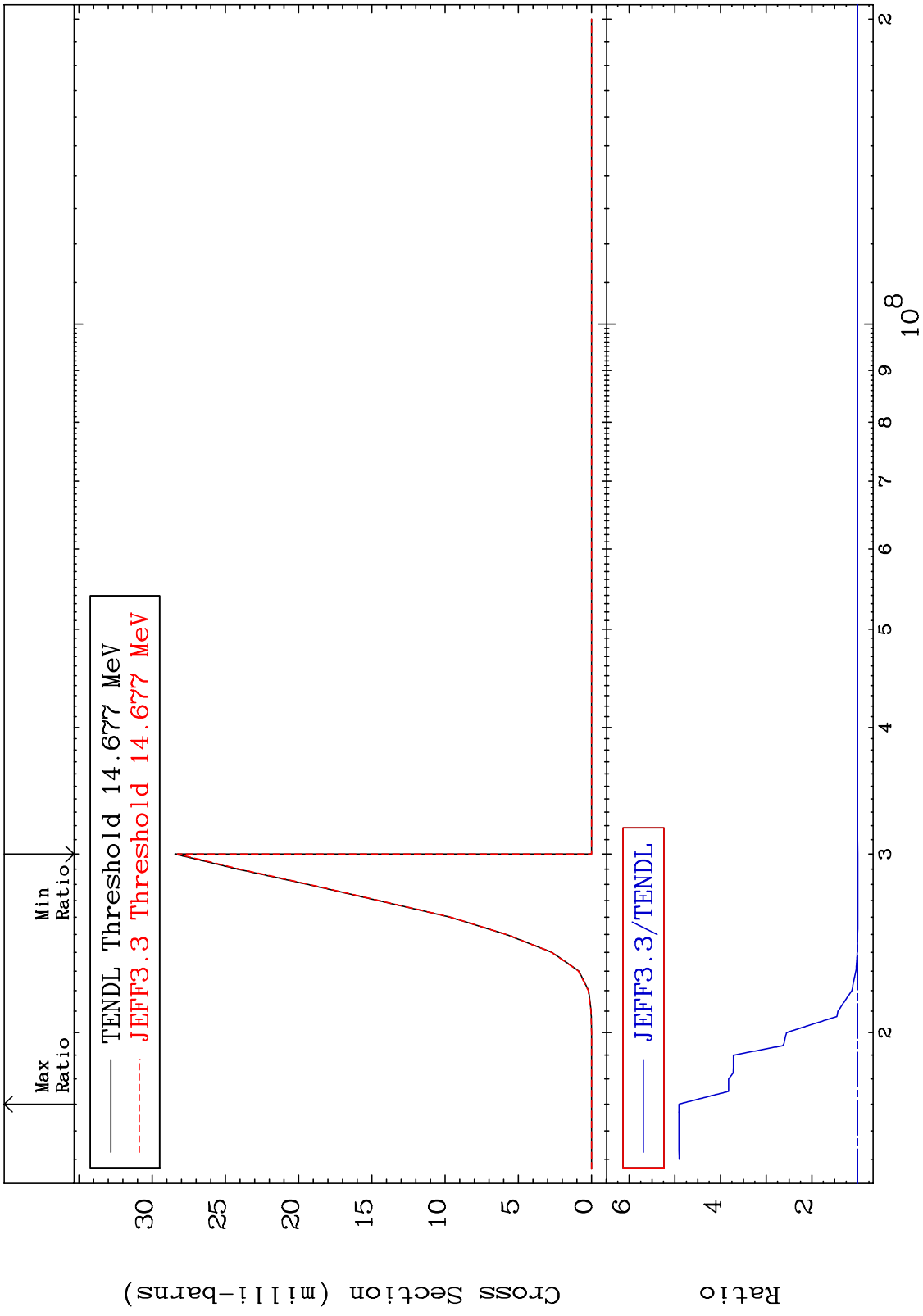


MAT 2728 $(n, n') \alpha$ 27-Co-60
 Cross Section -2.633 To 685.1 %

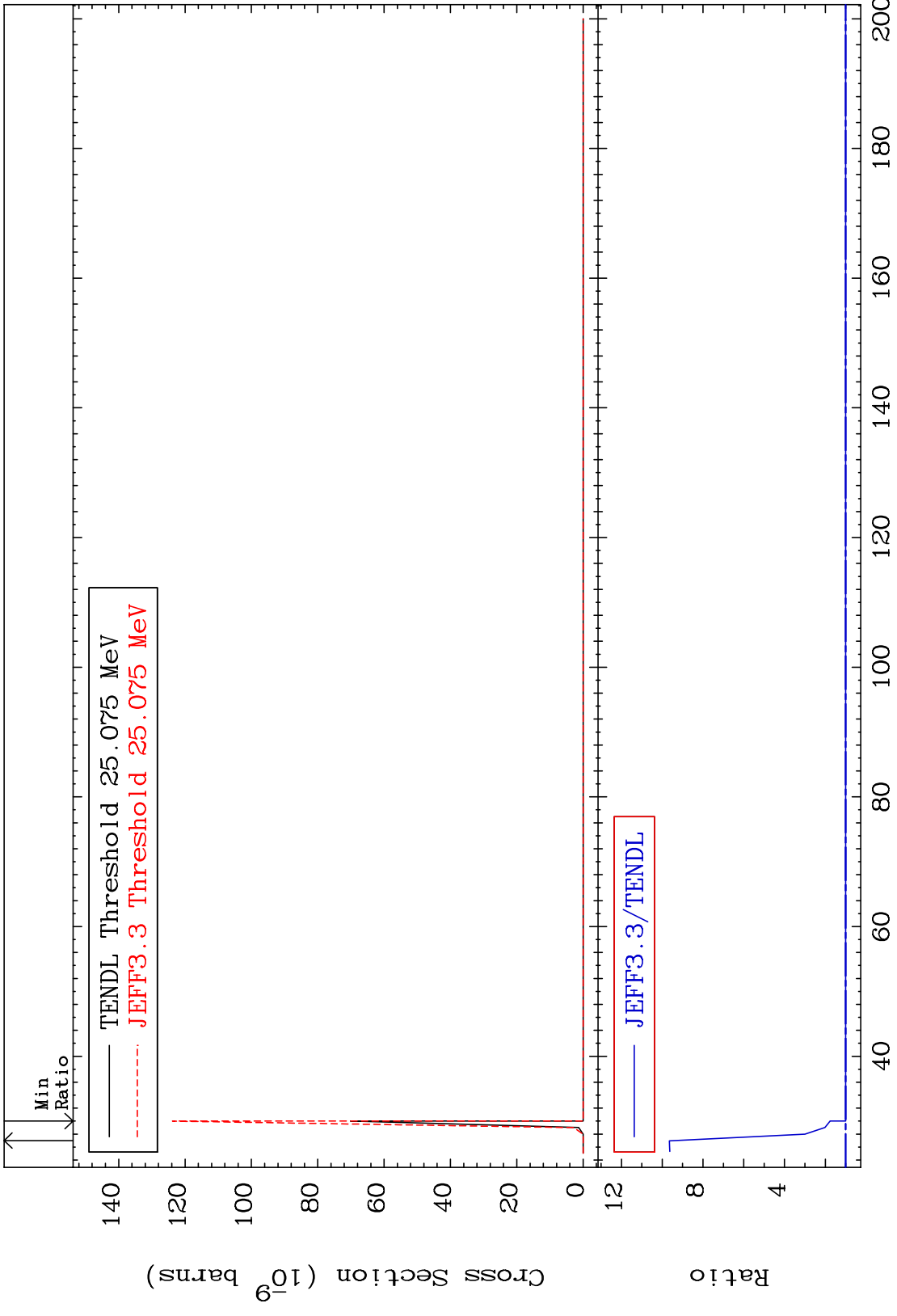


7 8 9 10 7 8 9 10 8 Incident Energy (eV) 27-Co-60

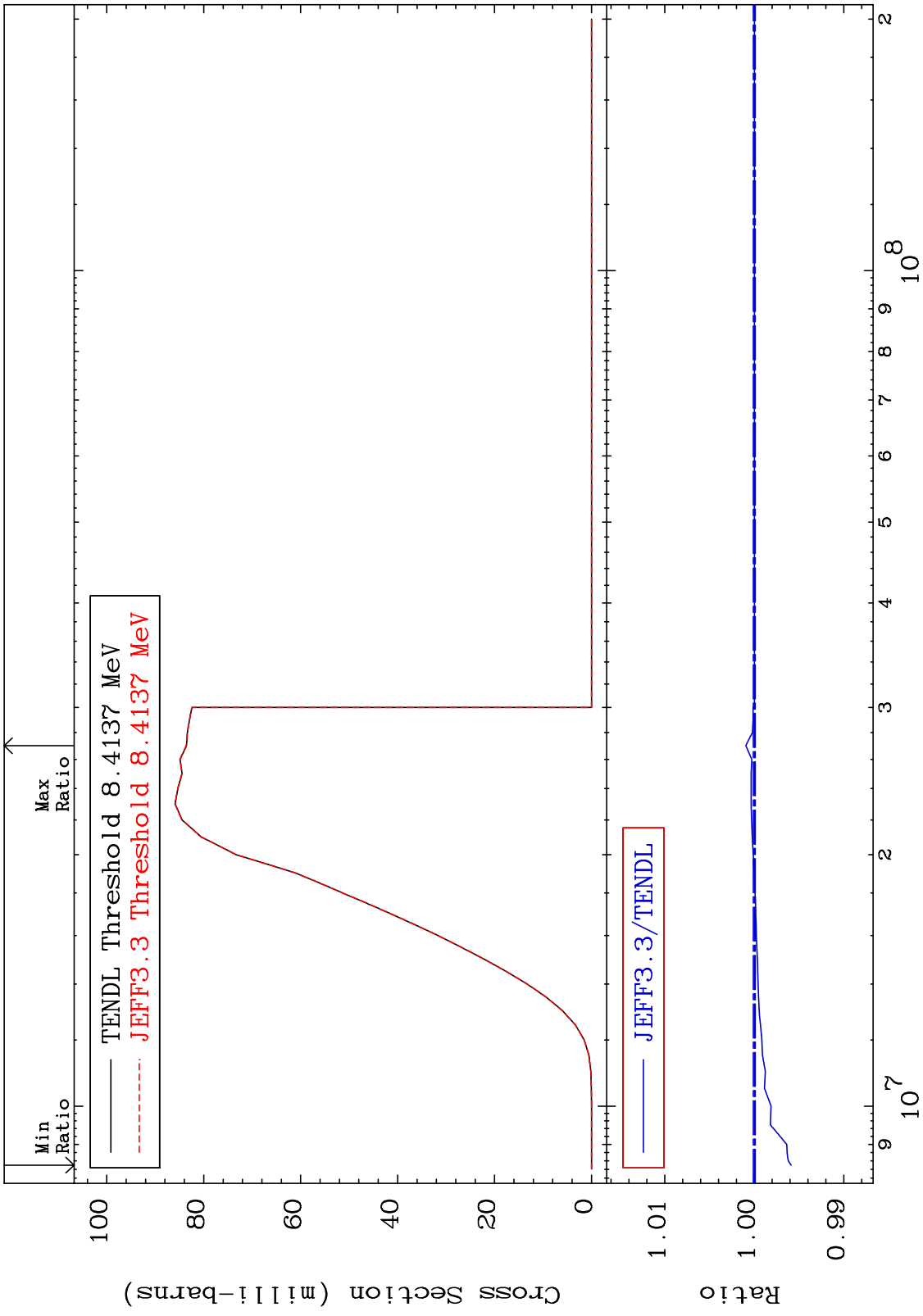
MAT 2728 $(n, 2n) \alpha$ 27-Co-60
 Cross Section -0.642 To 390.9 %



MAT 2728 (n,3n) α 27-Co-60
Cross Section 0.000 To 864.6 %

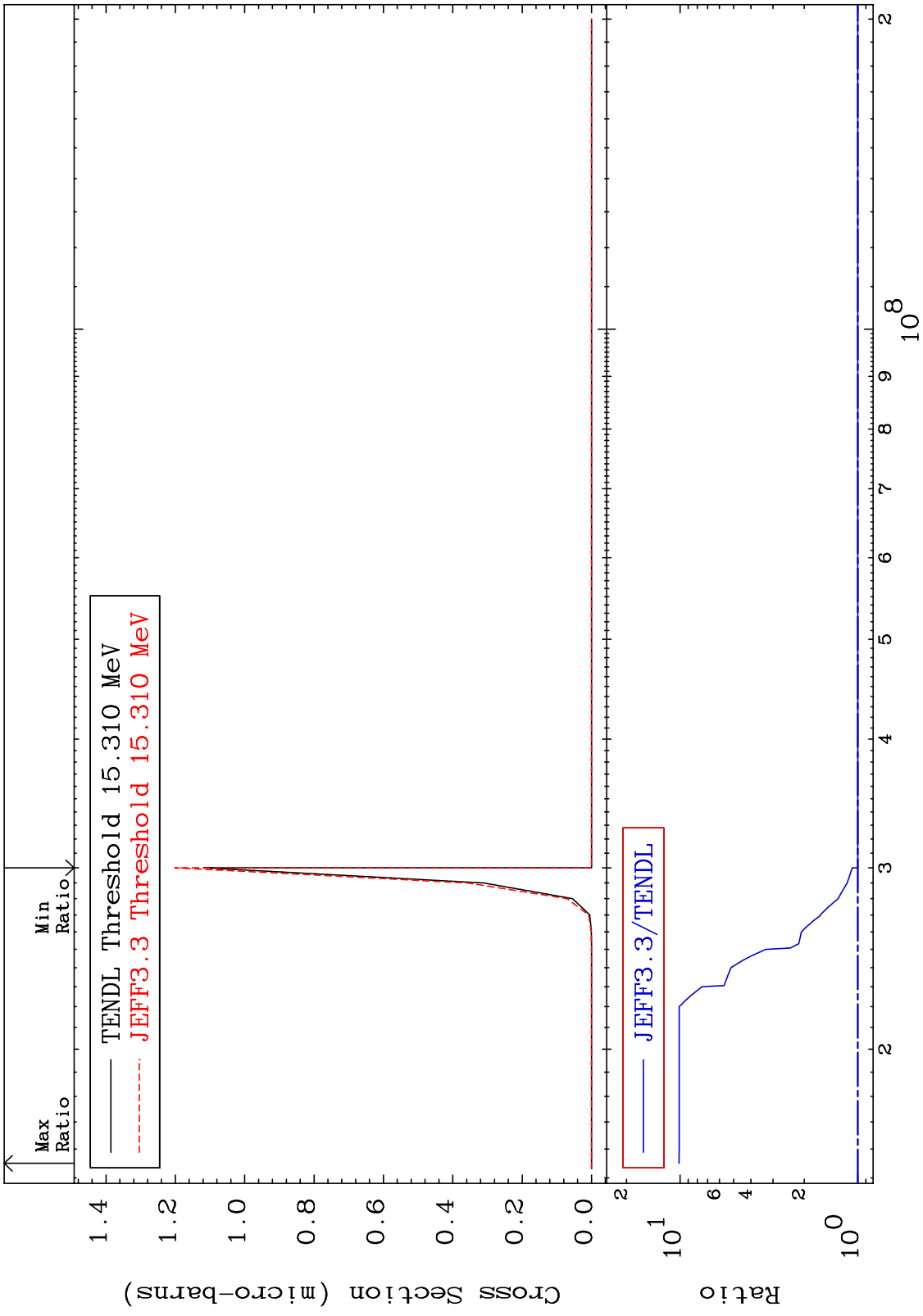


MAT 2728 (n, n') p $^{27}\text{Co-60}$
Cross Section -0.411 To 0.095 %

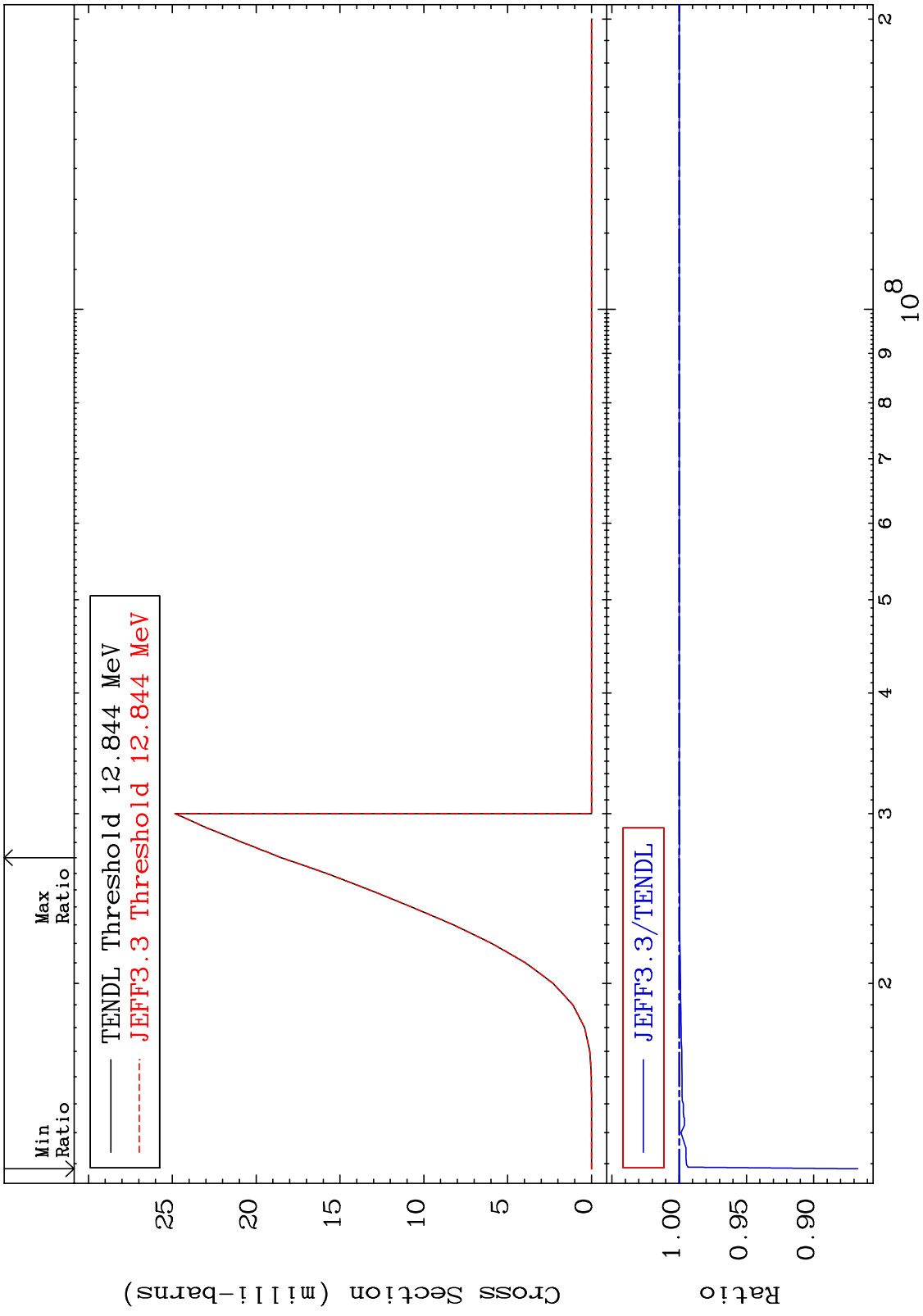


$^{27}\text{Co-60}$

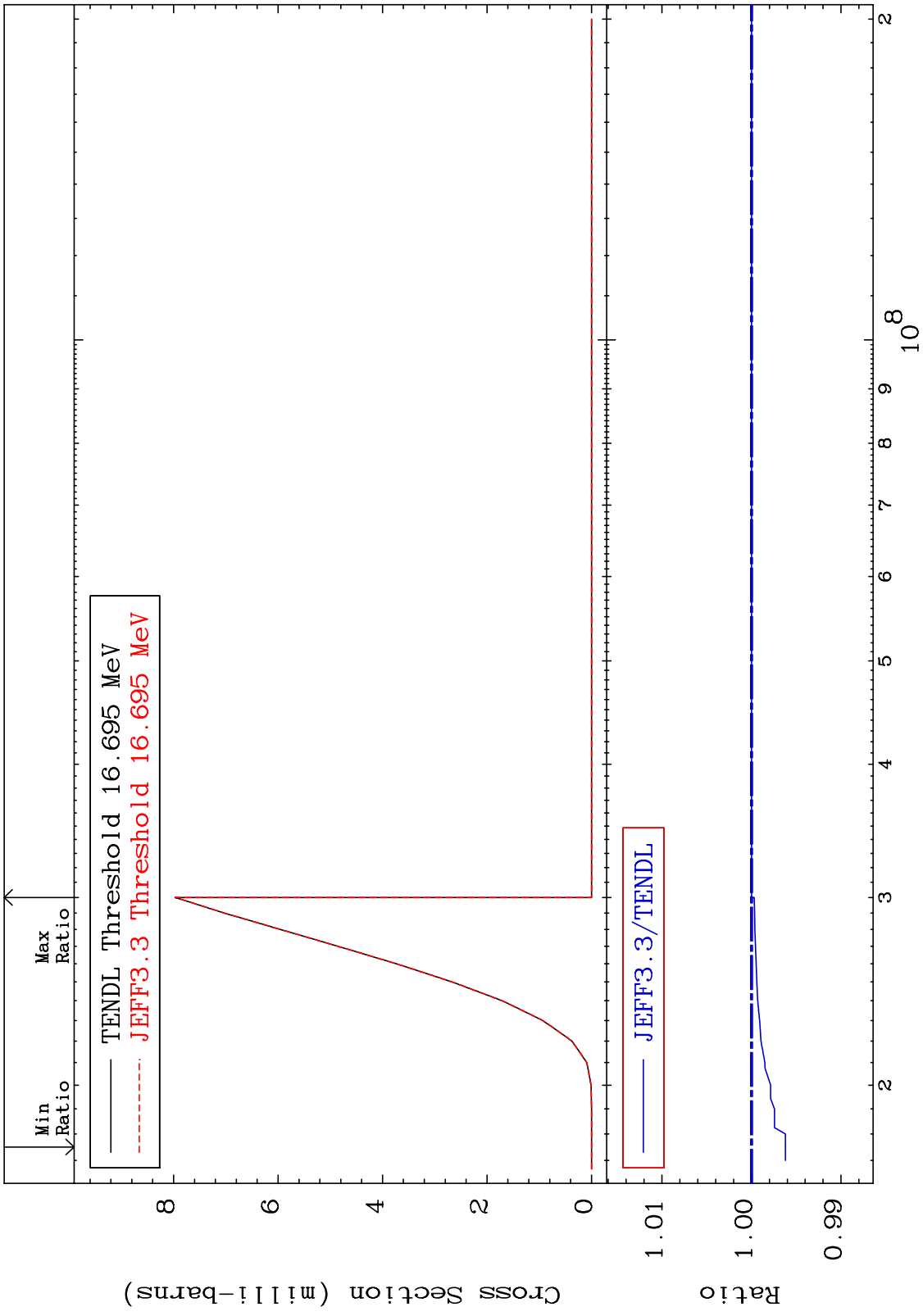
MAT 2728 (n,n') 2α Cross Section 27-Co-60 To 913.6 % 0.000



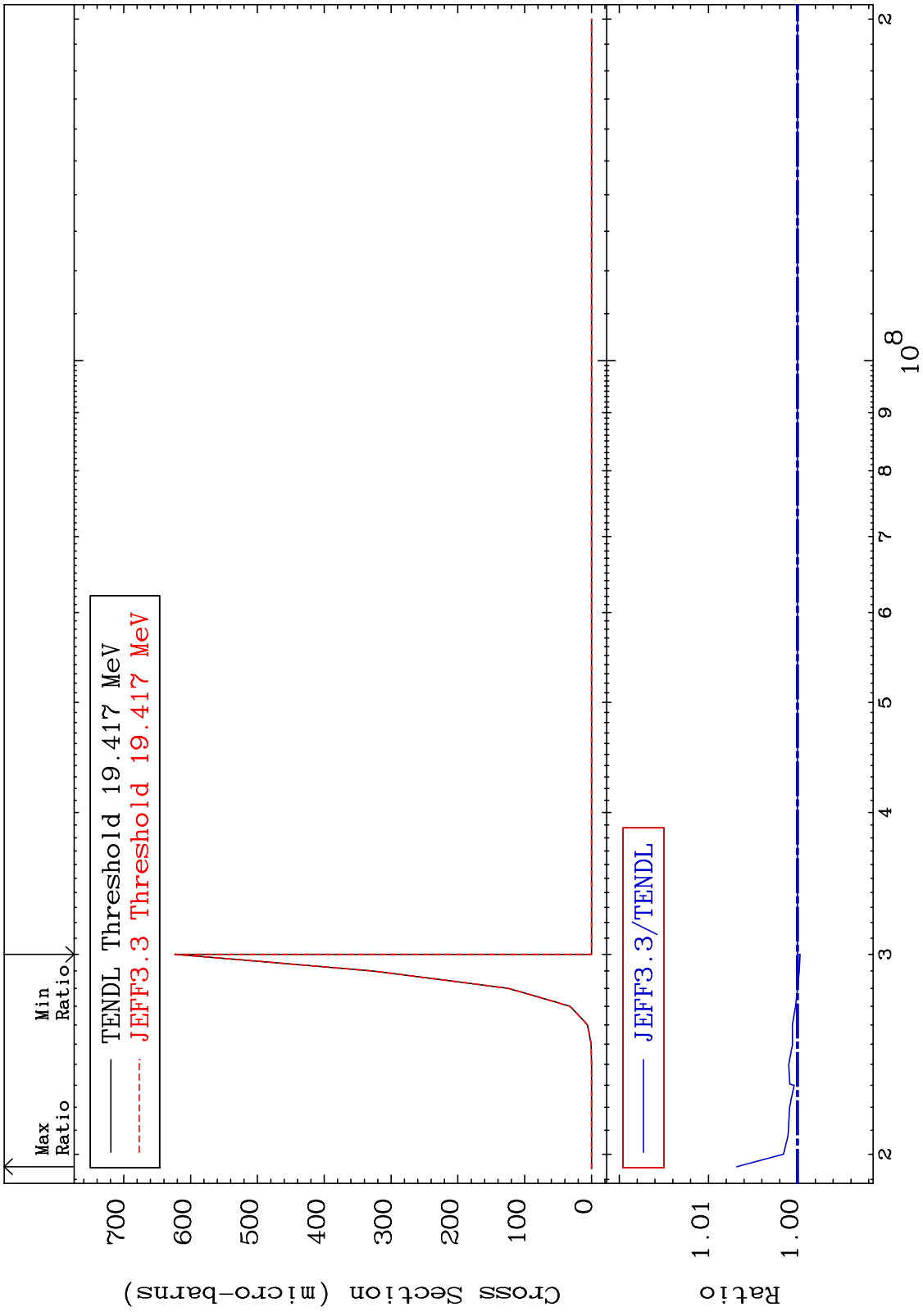
MAT 2728 (n,n') d 27-Co-60
 Cross Section -13.28 To 0.010 %



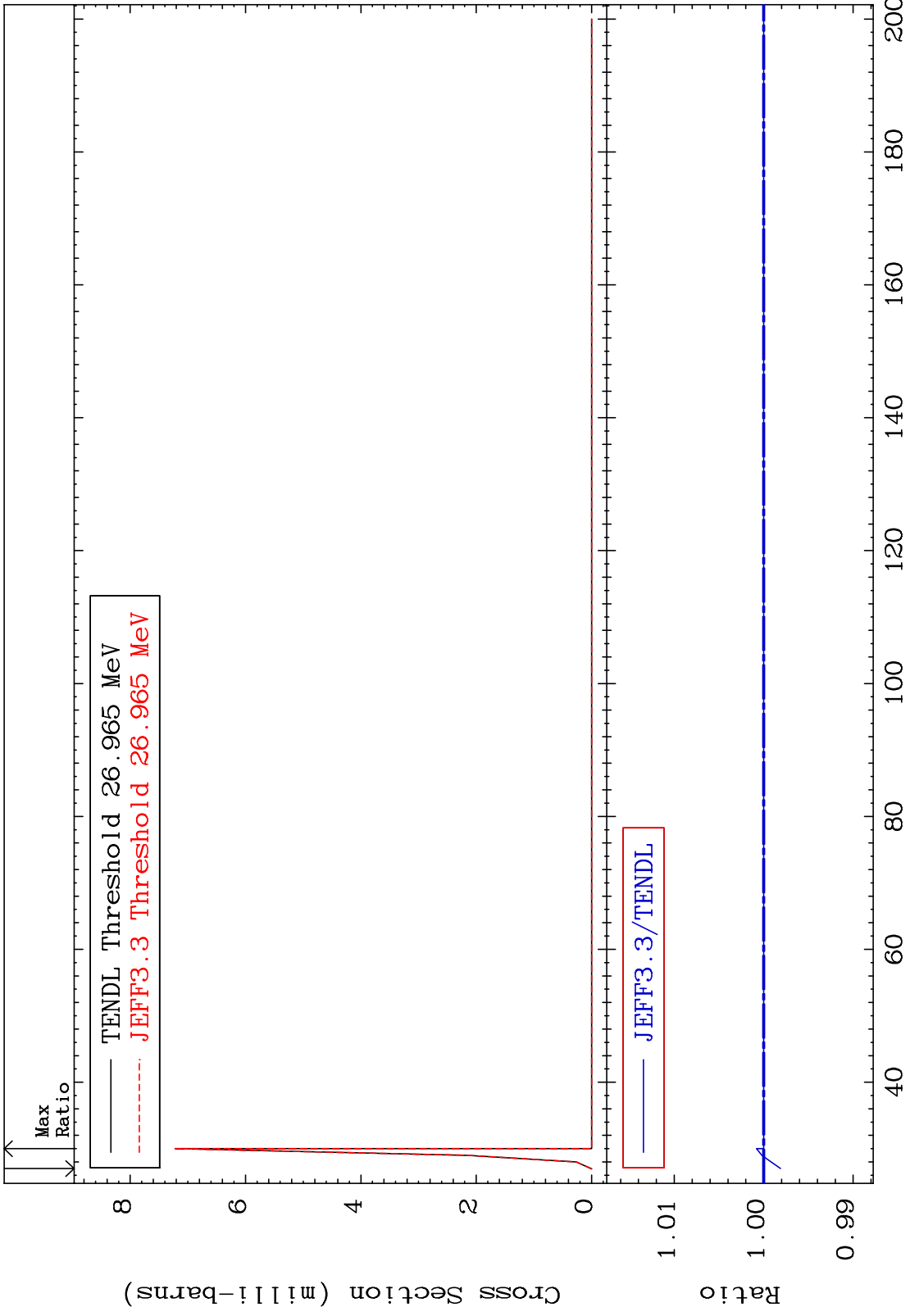
MAT 2728 (n,n') t 27-Co-60
 Cross Section -0.379 To 0.000 %

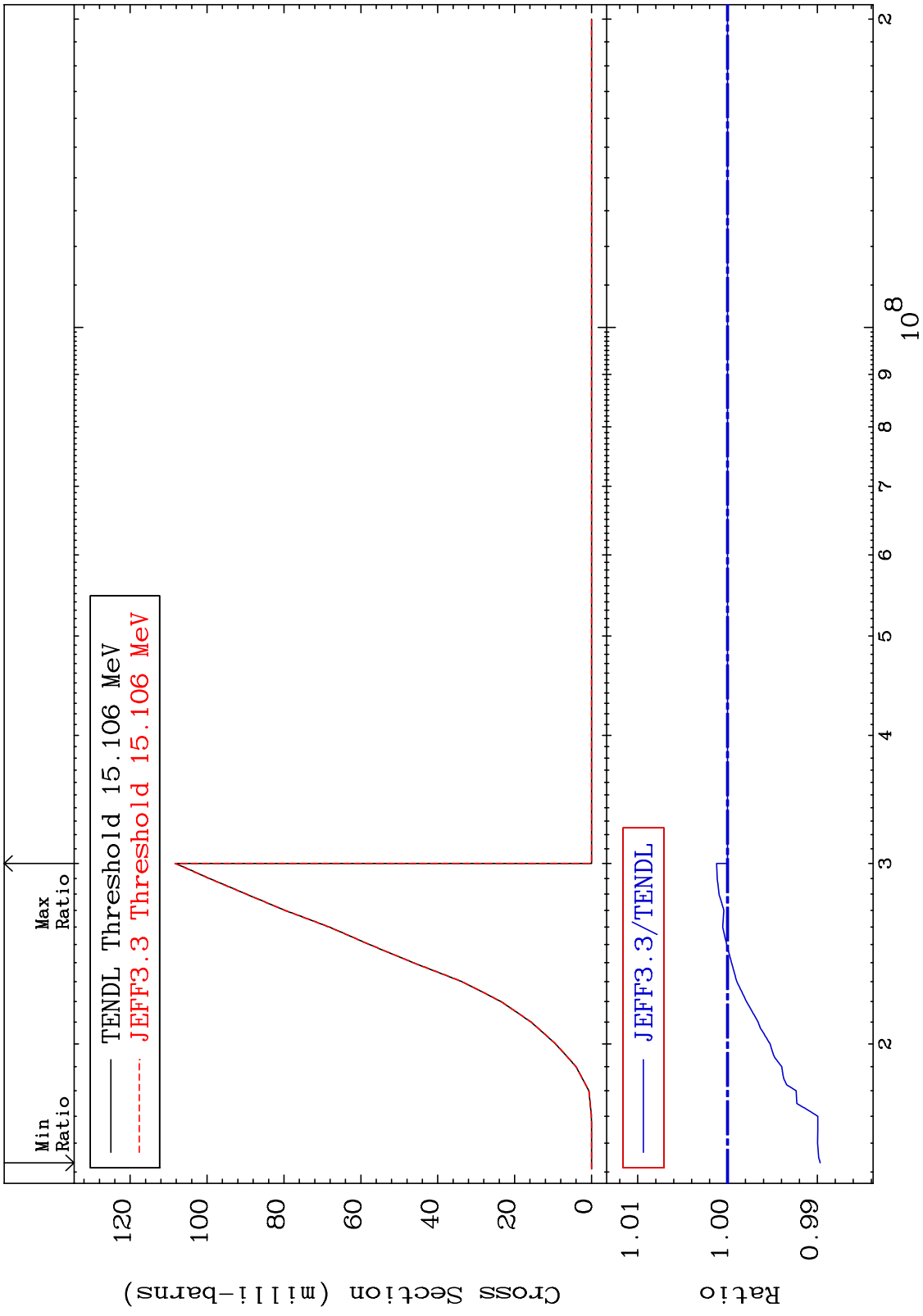


MAT 2728 (n, n') He-3 27-Co-60
 Cross Section -0.030 To 0.682 %

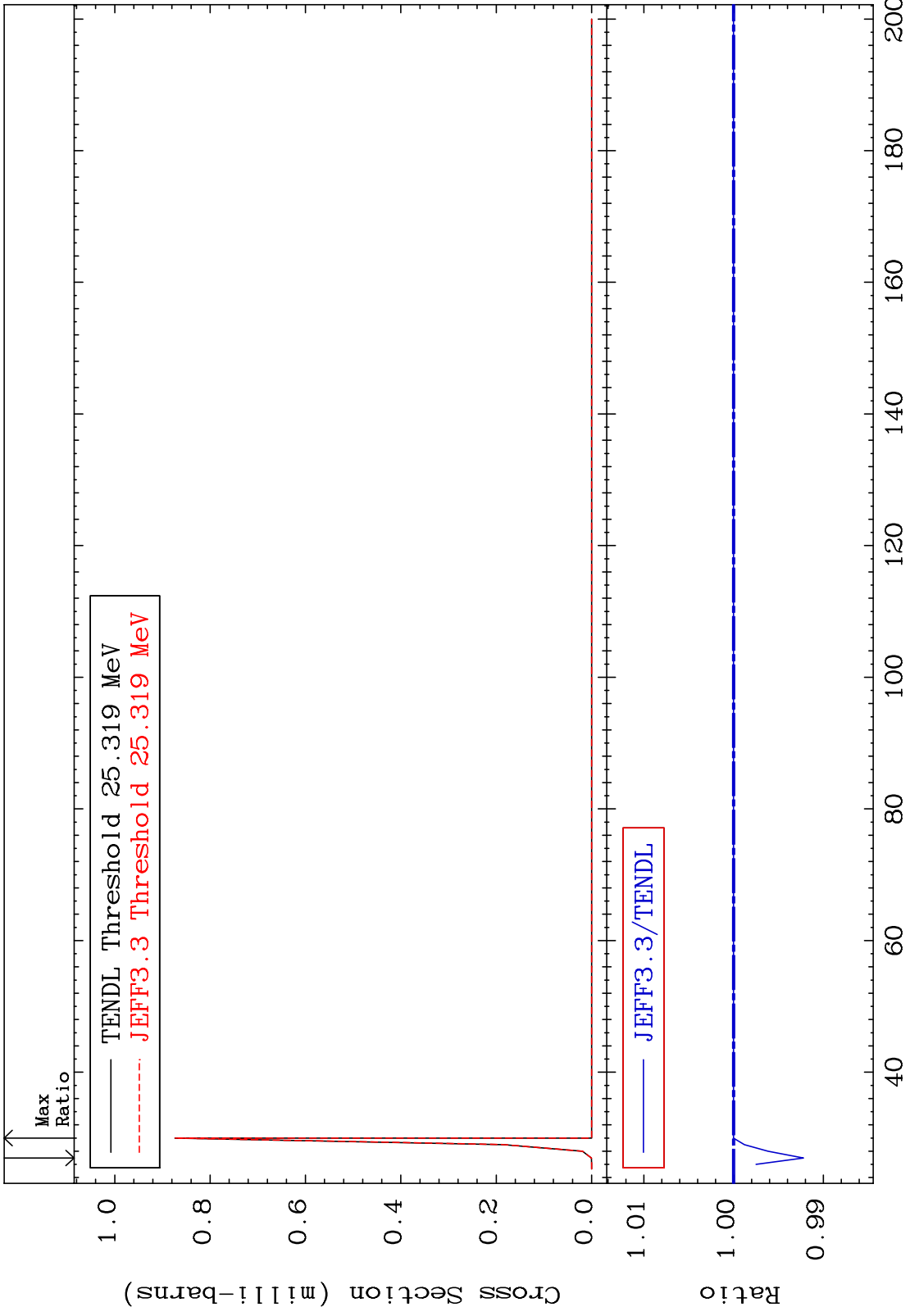


MAT 2728 (n,4n) Cross Section 27-Co-60 -0.188 To 0.081 %

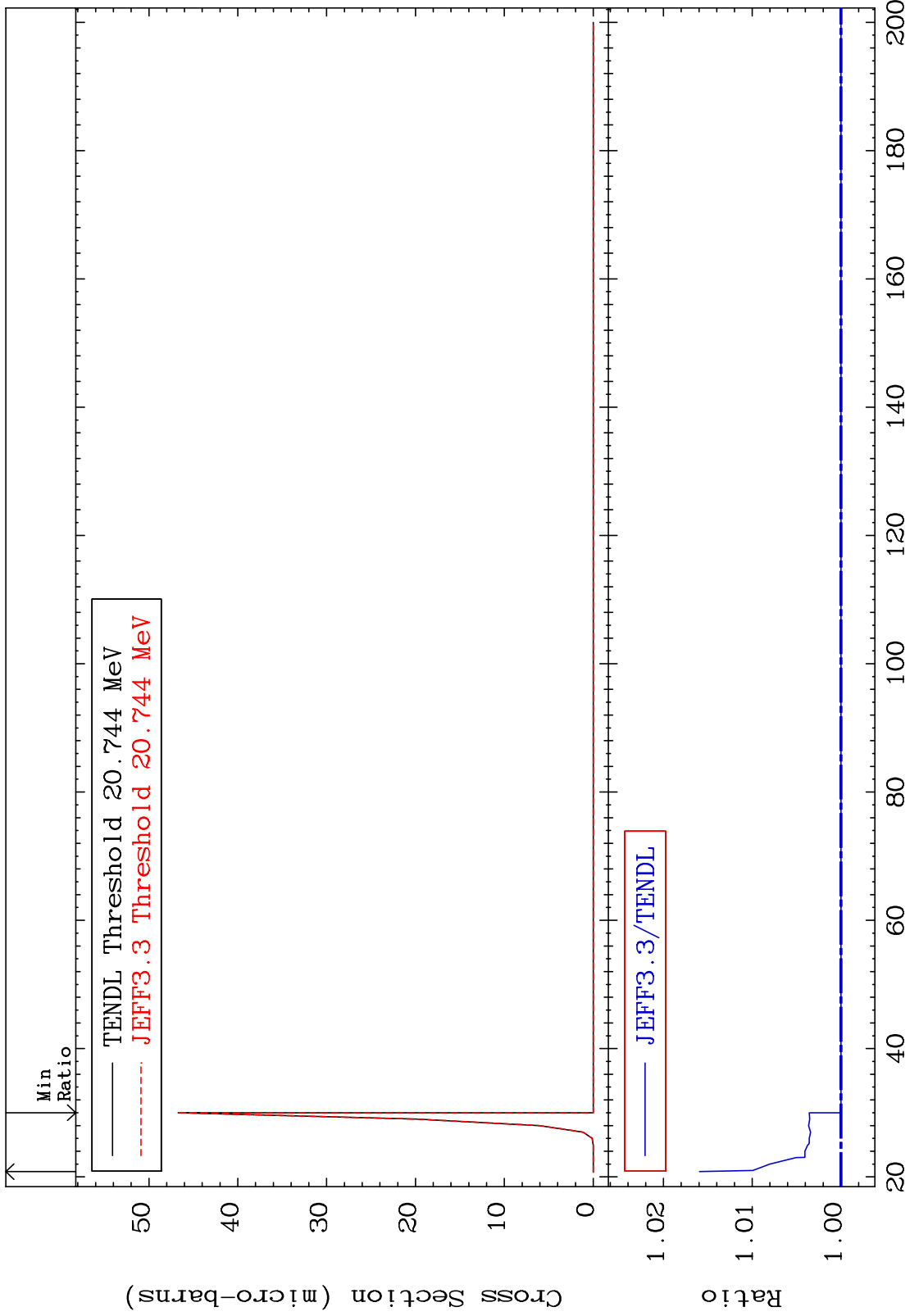




MAT 2728 (n,3n) p 27-Co-60
 Cross Section -0.778 To 0.000 %

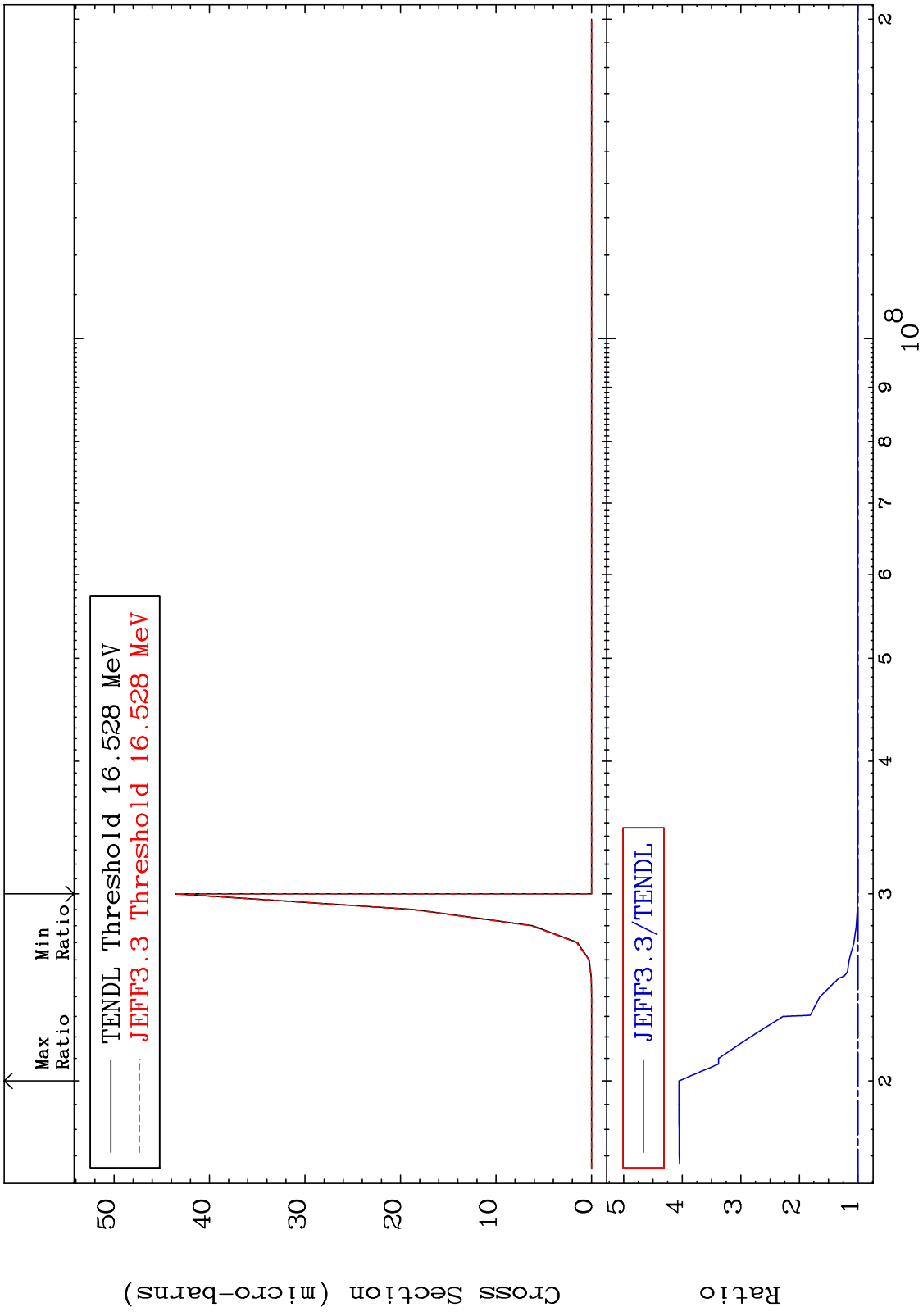


MAT 2728 (n,2n) p 27-Co-60
Cross Section 0.000 To 1.595 %



18 Incident Energy (MeV) 27-Co-60

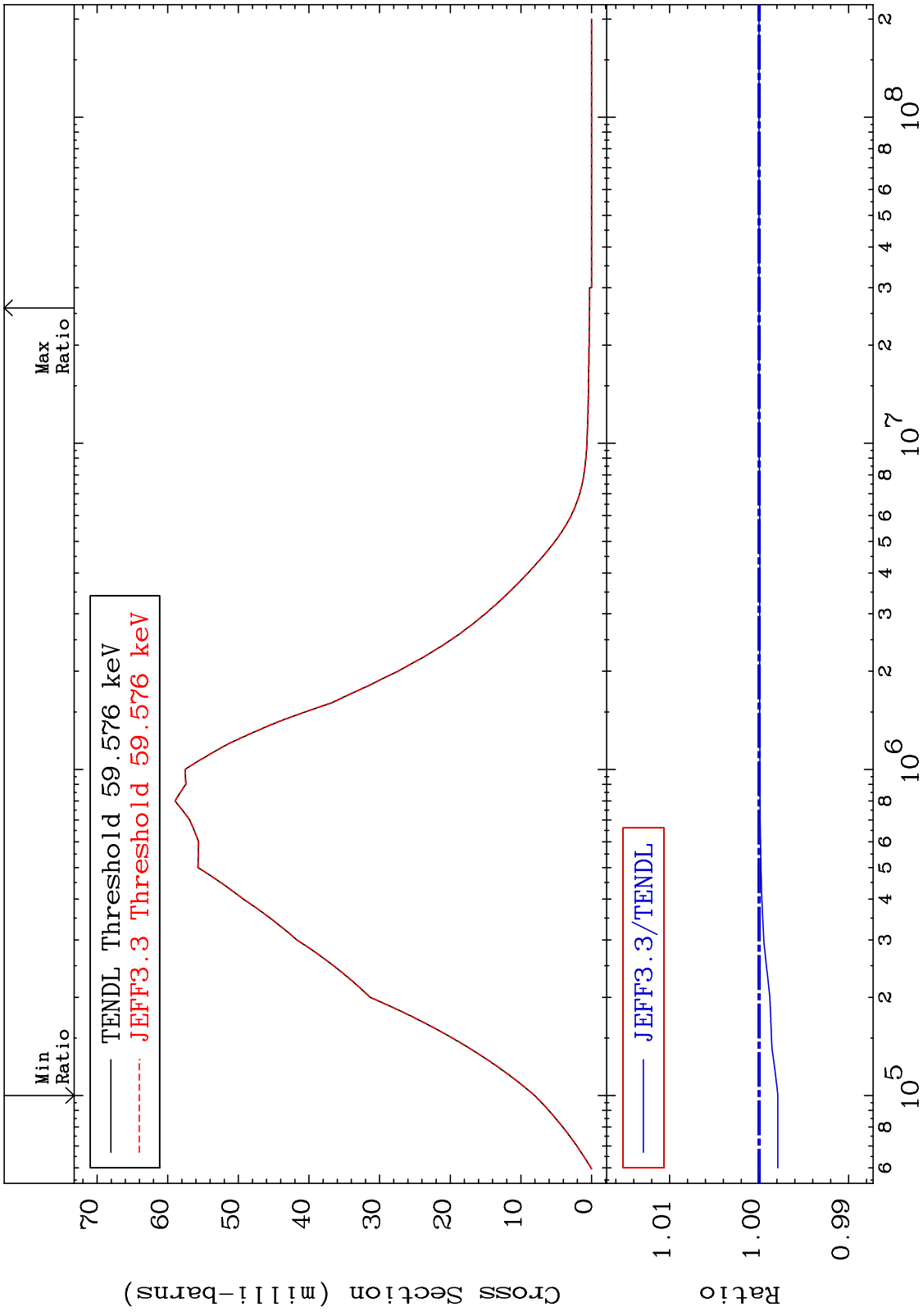
MAT 2728 (n,n') p α 27-Co-60
 Cross Section 0.000 To 305.5 %



27-Co-60

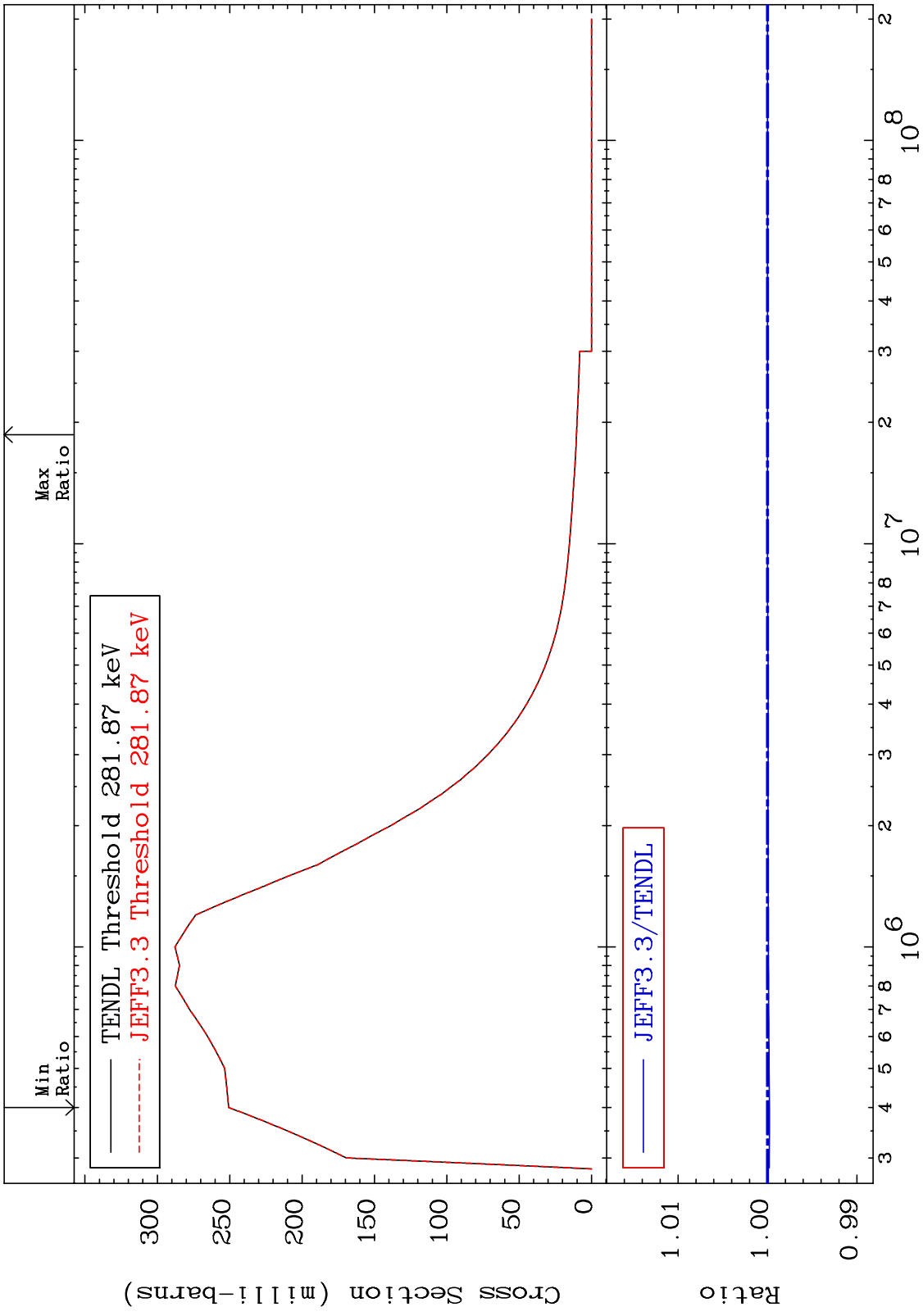
Incident Energy (eV)

MAT 2728 MT= 51 (n,n') Level Cross Section 27-Co-60
 -0.210 To 0.000 %

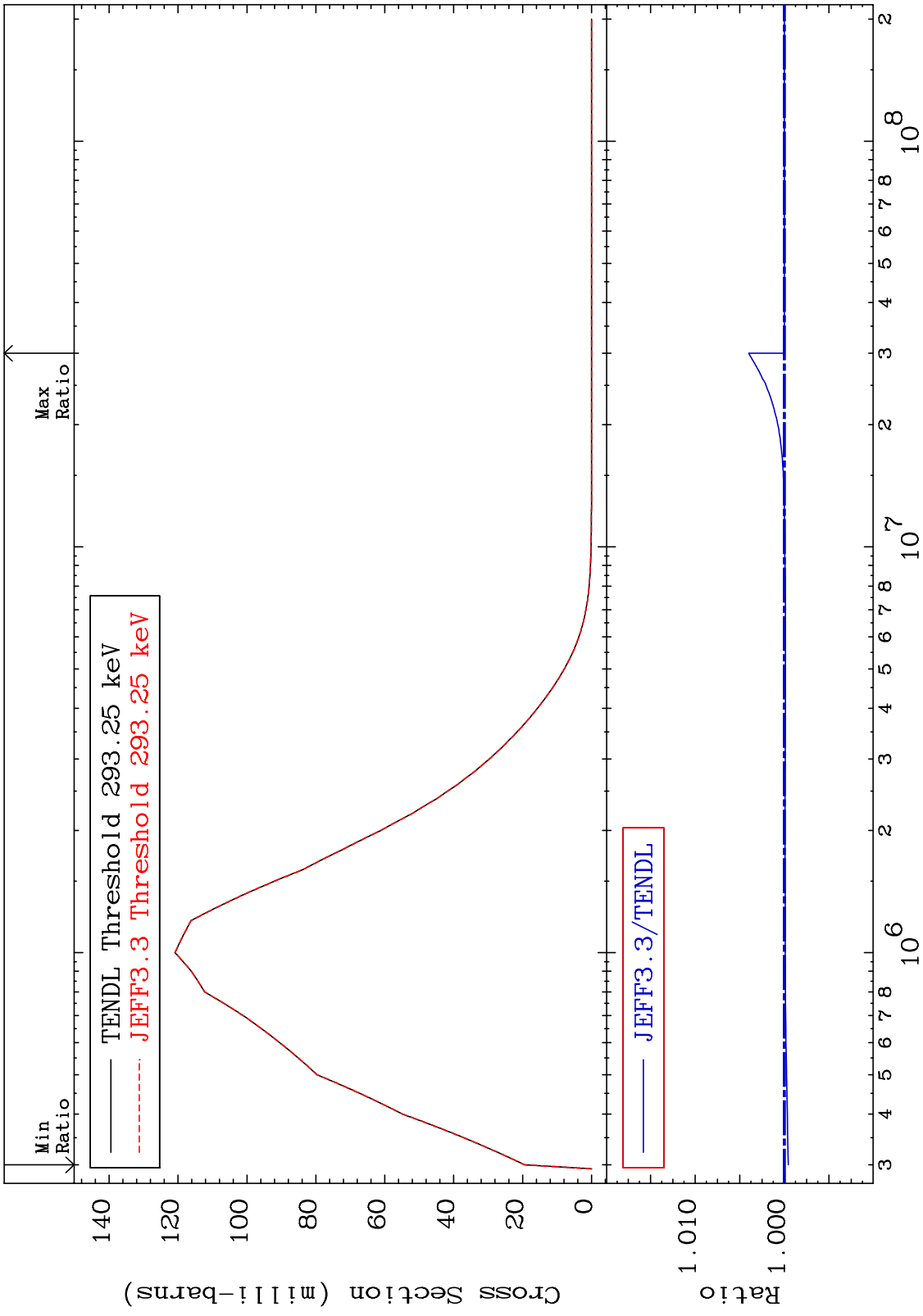


20 27-Co-60

MAT 2728 MT= 52 (n,n') Level Cross Section -0.022 To 0.000 % 27-Co-60

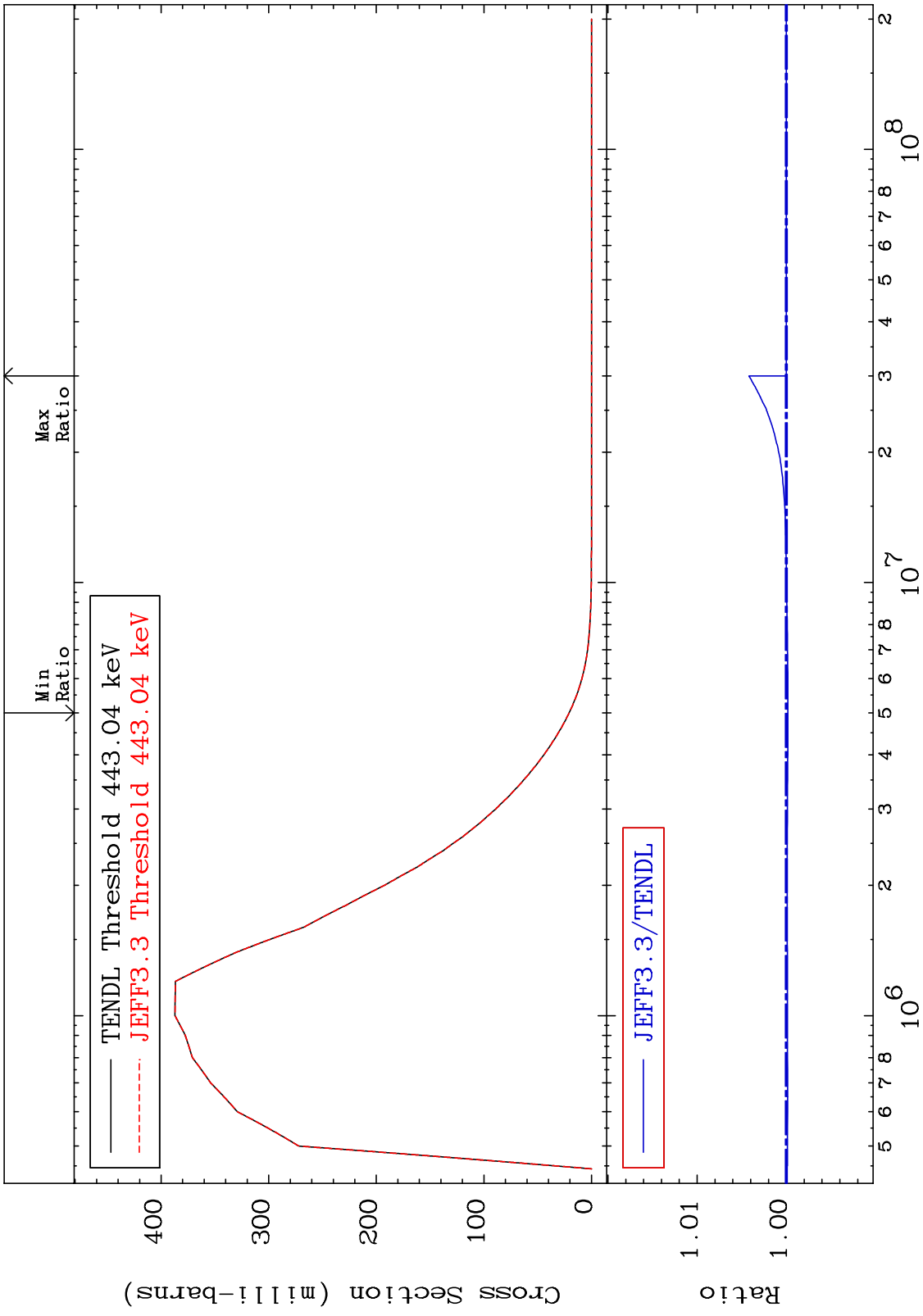


MAT 2728 MT= 53 (n,n') Level Cross Section 27-Co-60
 -0.043 To 0.401 %

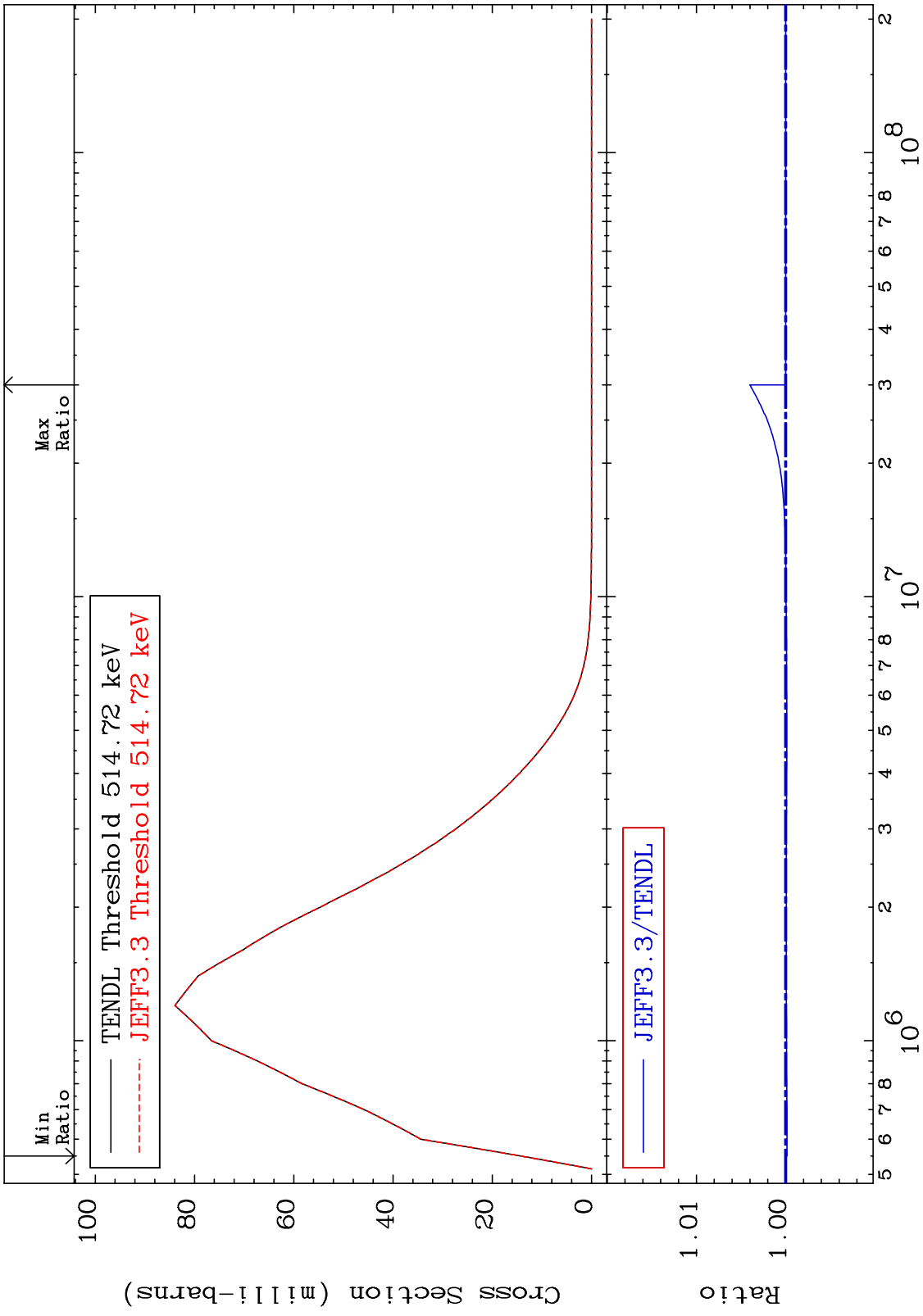


22 27-Co-60

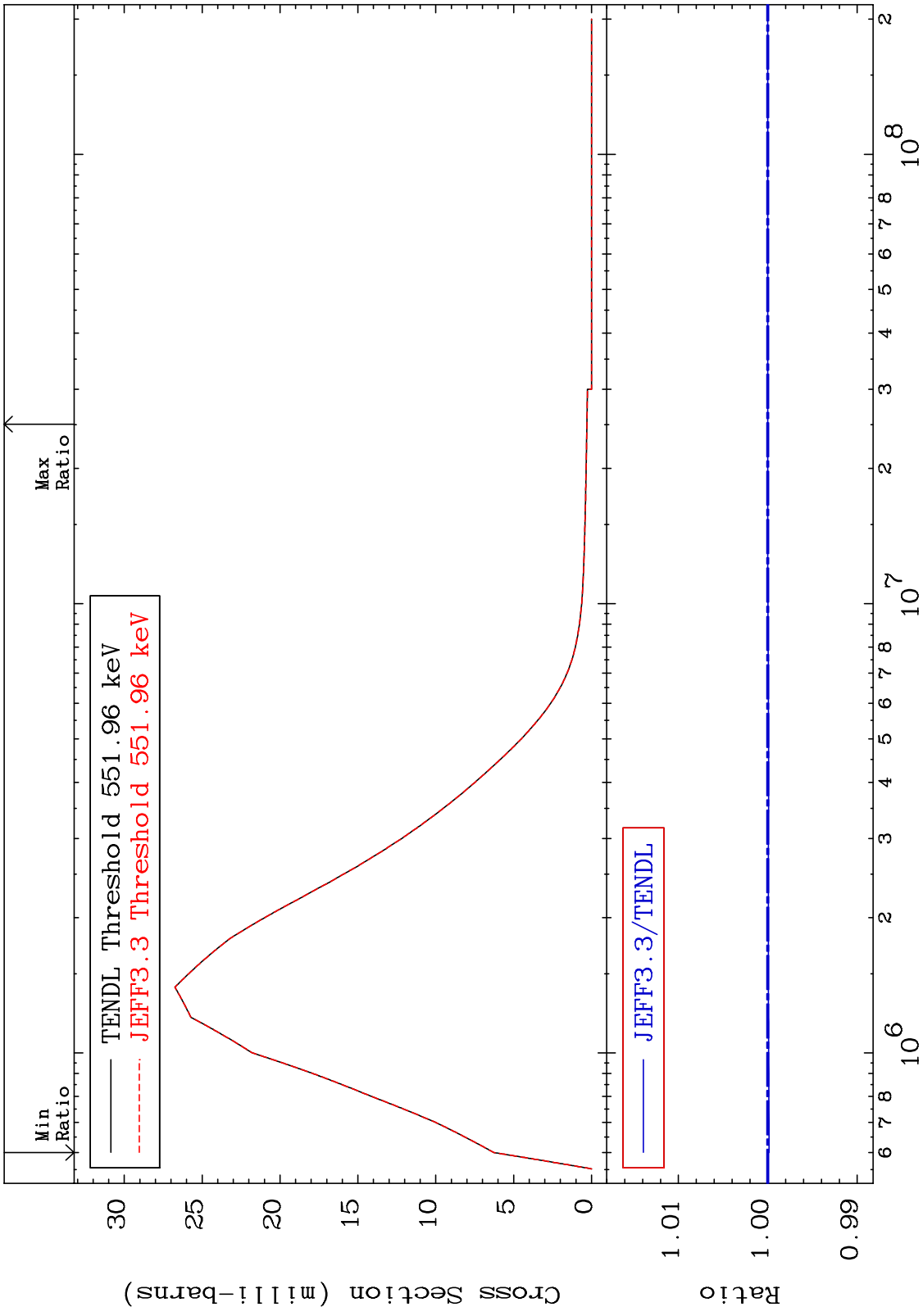
MAT 2728 MT= 54 (n,n') Level Cross Section 27-Co-60
 -0.018 To 0.420 %



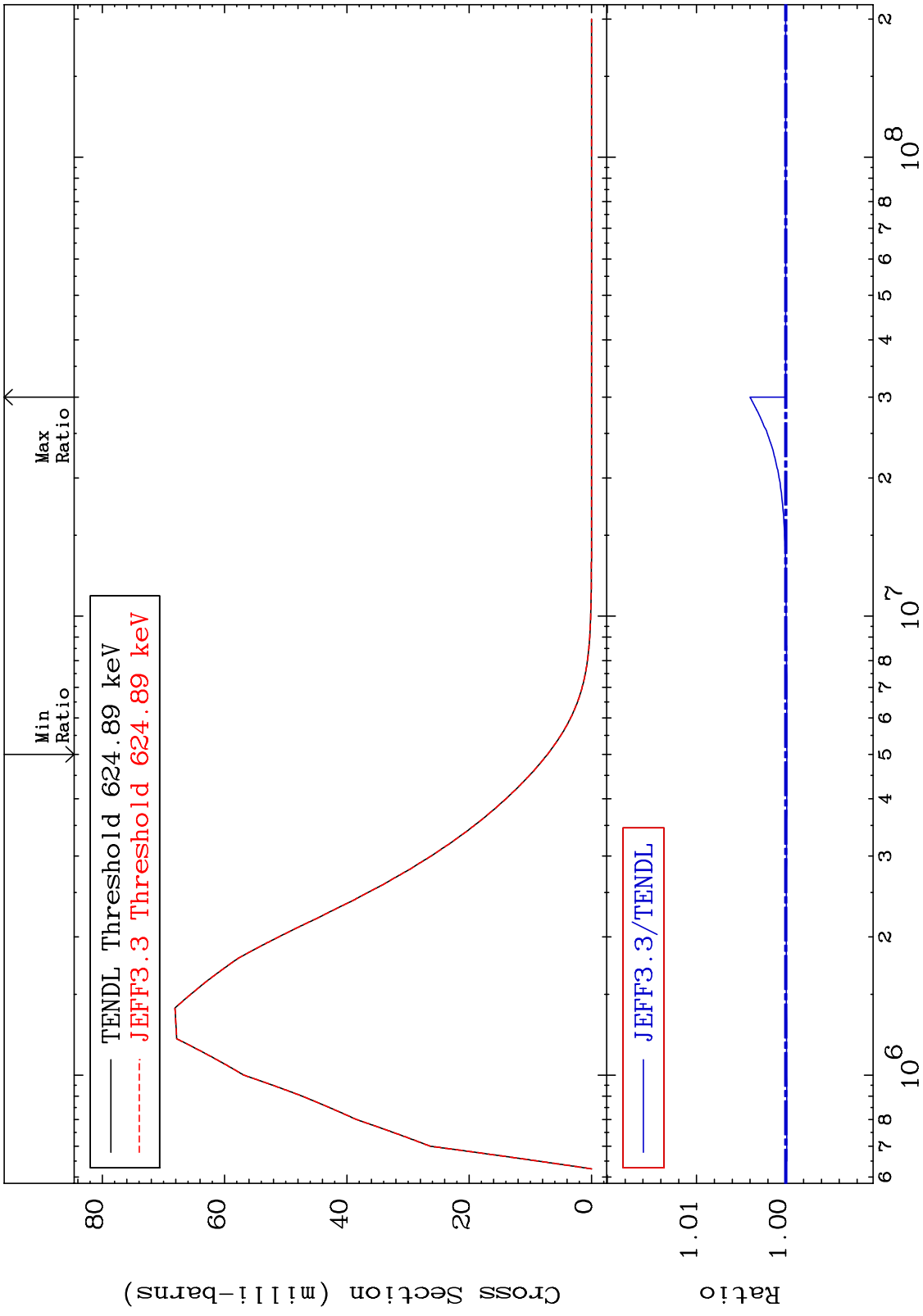
MAT 2728 MT= 55 (n,n') Level Cross Section 27-Co-60
 -0.015 To 0.401 %



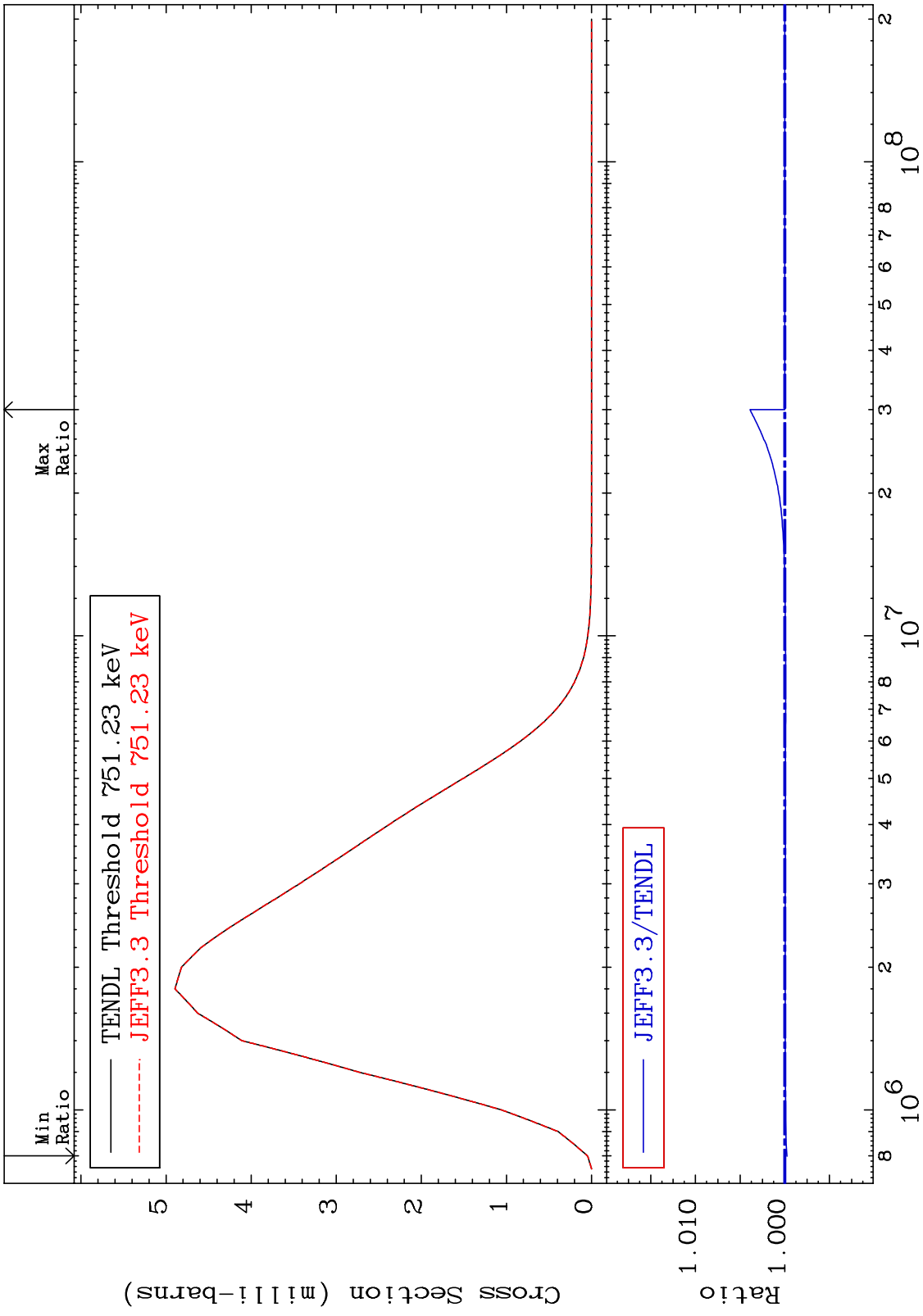
MAT 2728 MT= 56 (n,n') Level Cross Section -0.014 To 0.000 % 27-Co-60



MAT 2728 MT= 57 (n,n') Level Cross Section -0.013 To 0.400 % 27-Co-60

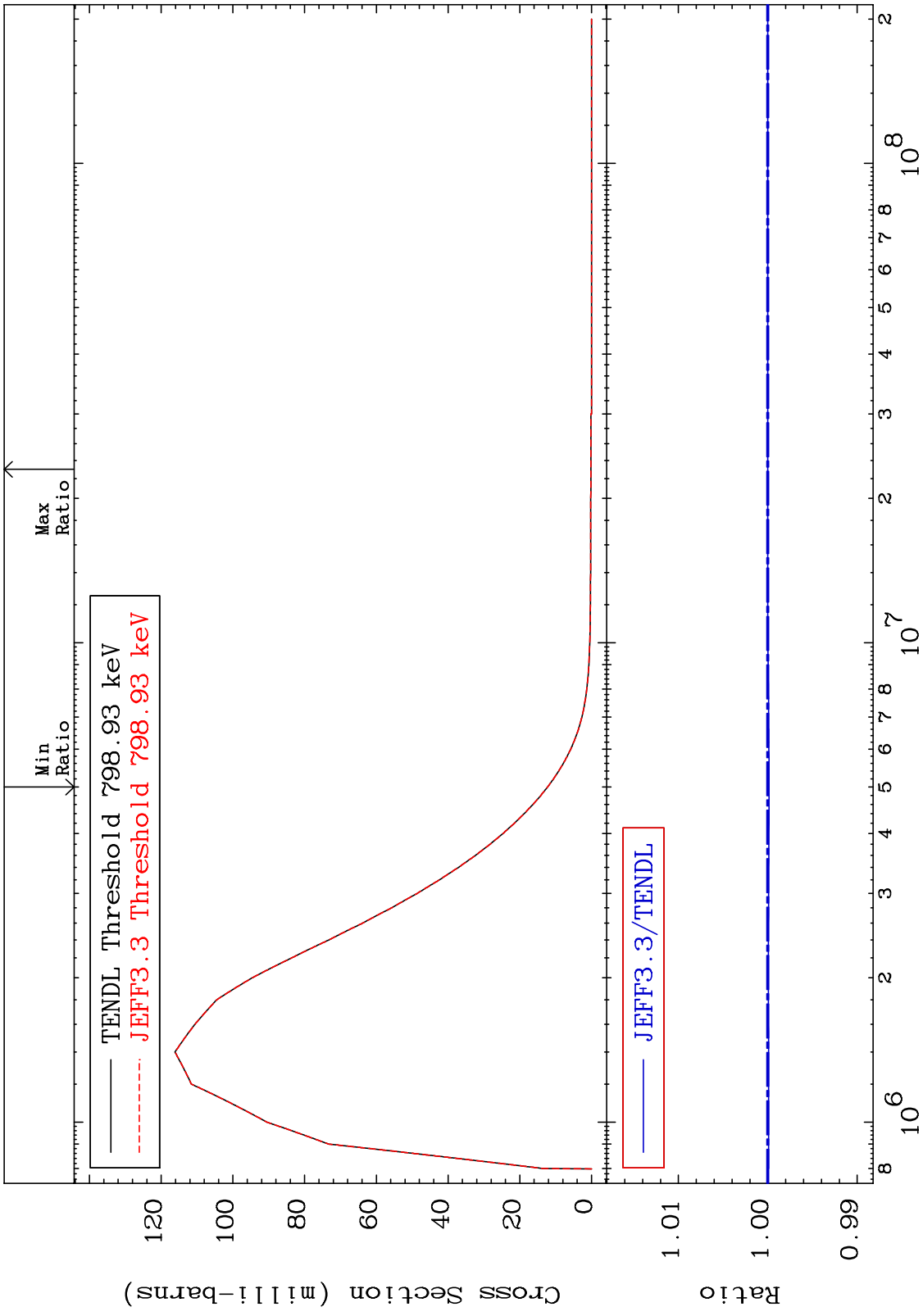


MAT 2728 MT= 58 (n,n') Level Cross Section -0.025 To 0.390 % 27-Co-60



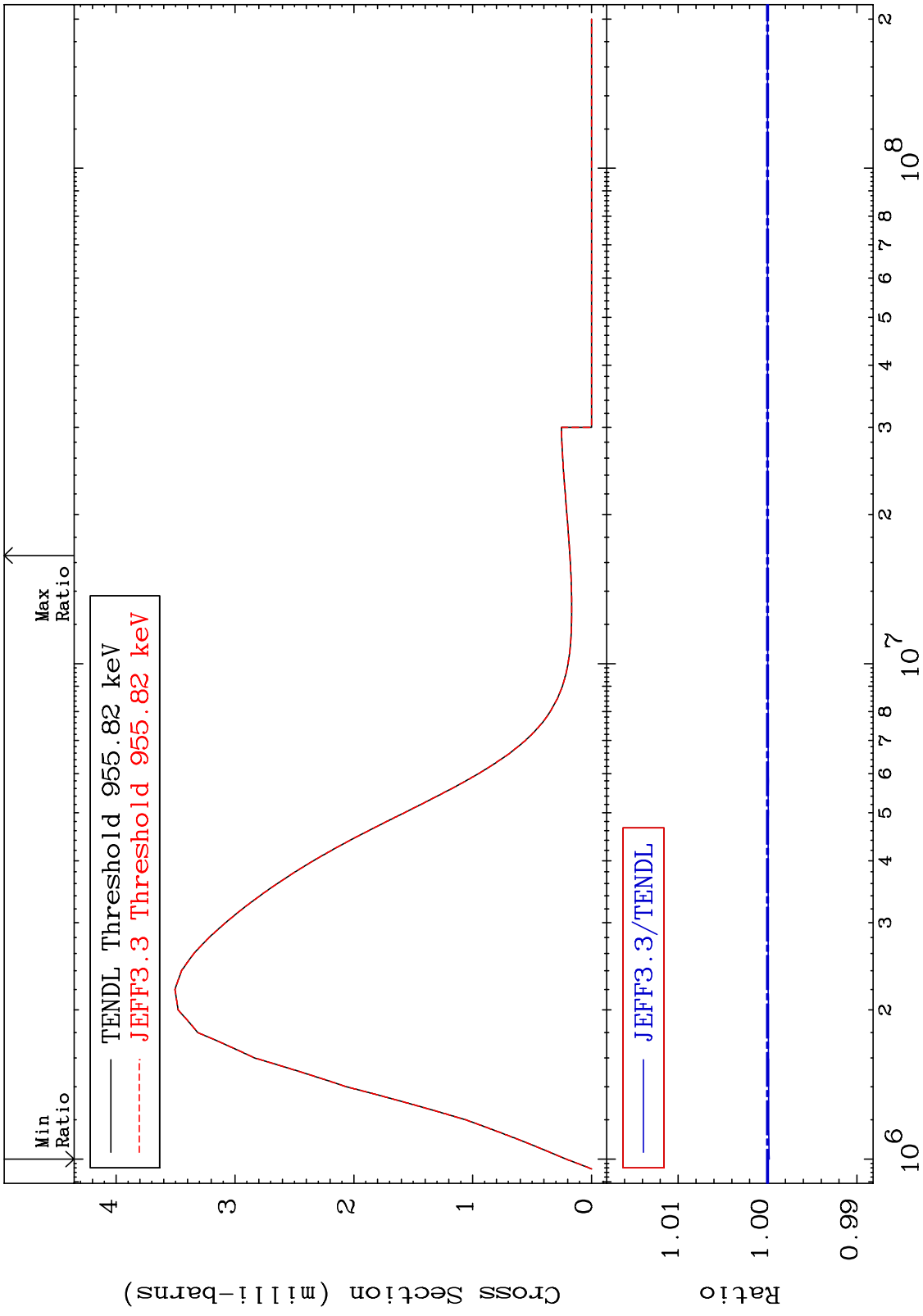
27 Incident Energy (eV) 27-Co-60

MAT 2728 MT= 59 (n,n') Level Cross Section -0.015 To 0.000 % 27-Co-60



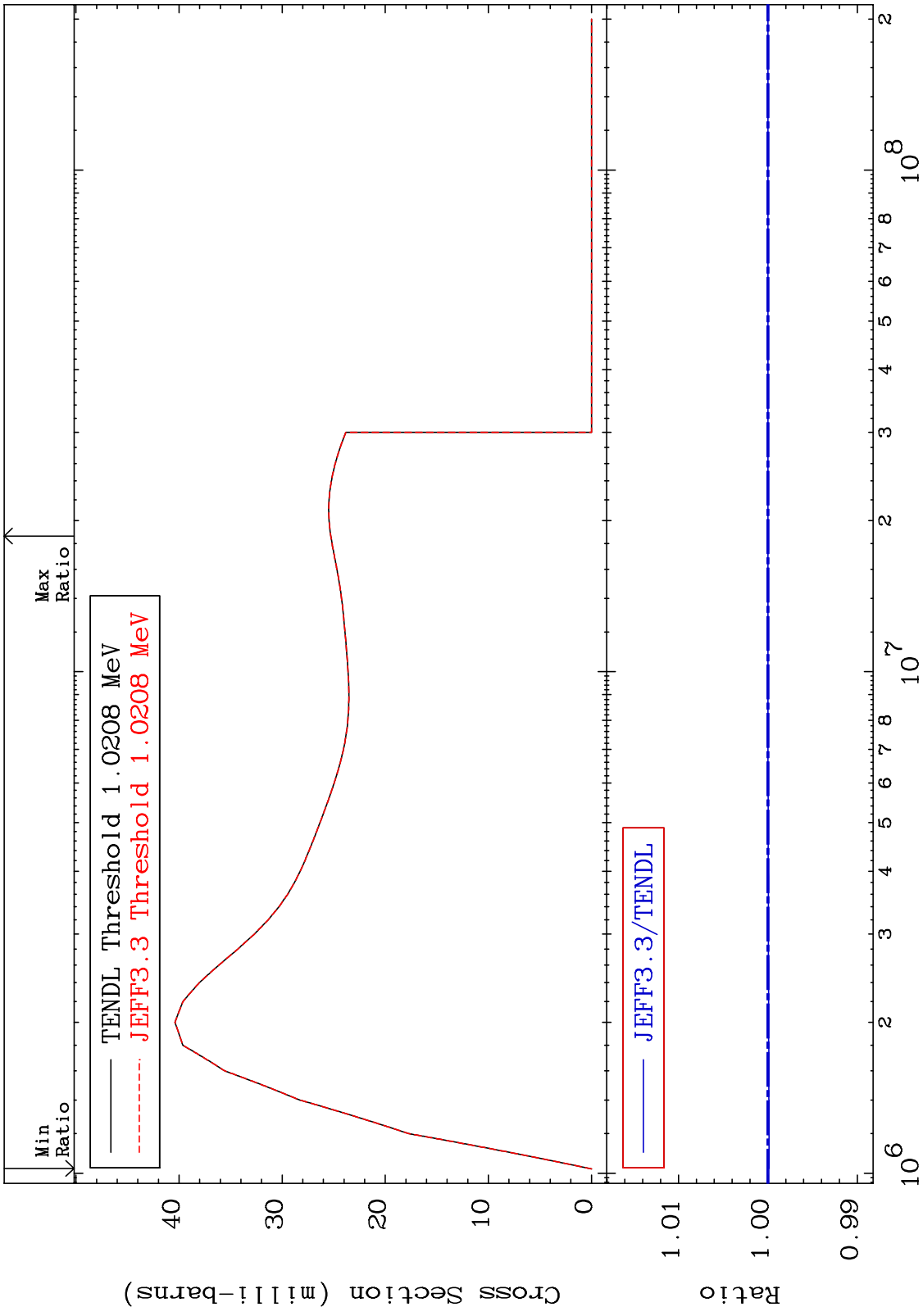
28 Incident Energy (eV) 27-Co-60

MAT 2728 MT= 60 (n,n') Level Cross Section -0.020 To 0.000 % 27-Co-60



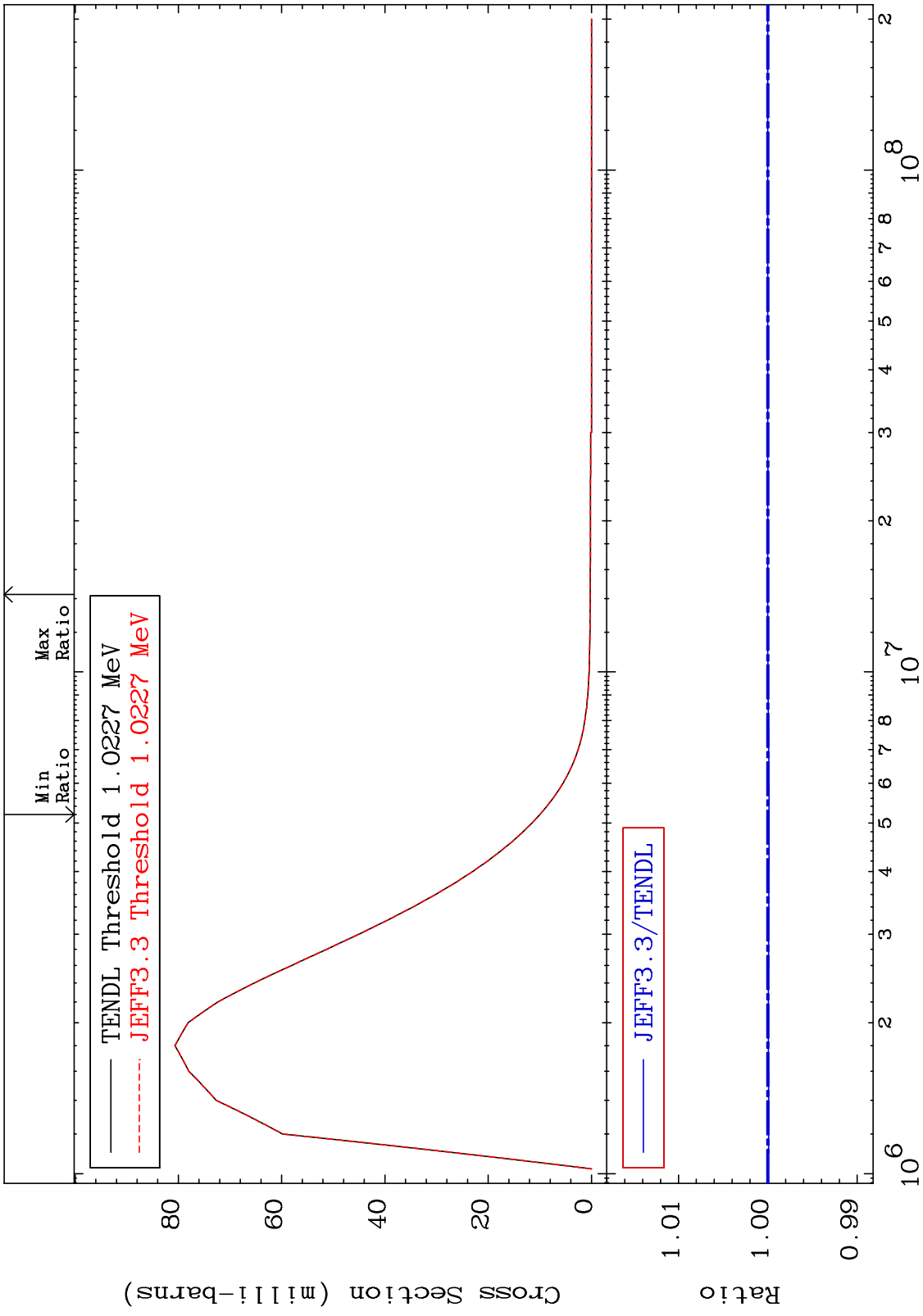
29 Incident Energy (eV) 27-Co-60

MAT 2728 MT= 61 (n, n') Level Cross Section 27-Co-60
 -0.012 To 0.000 %

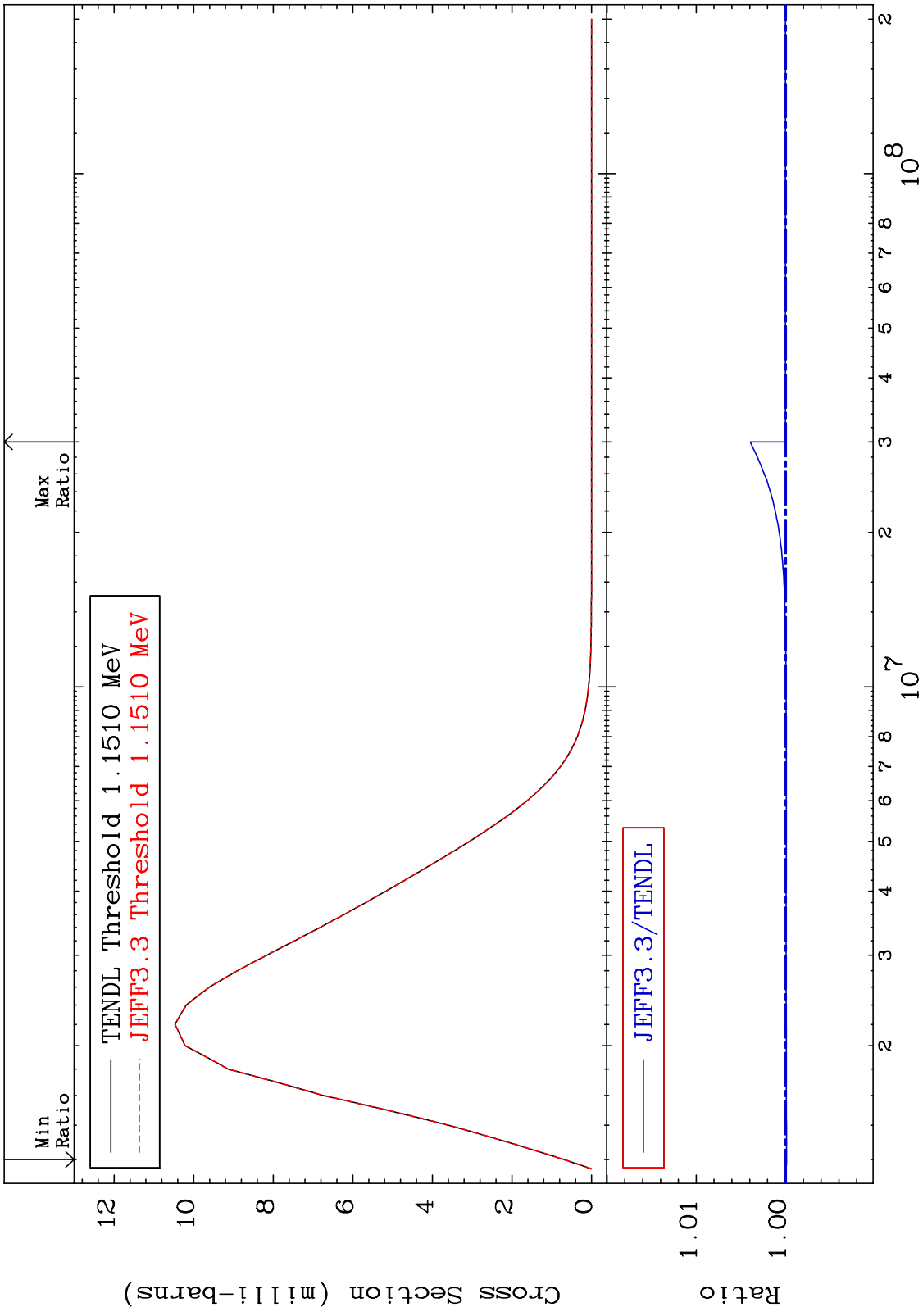


27-Co-60

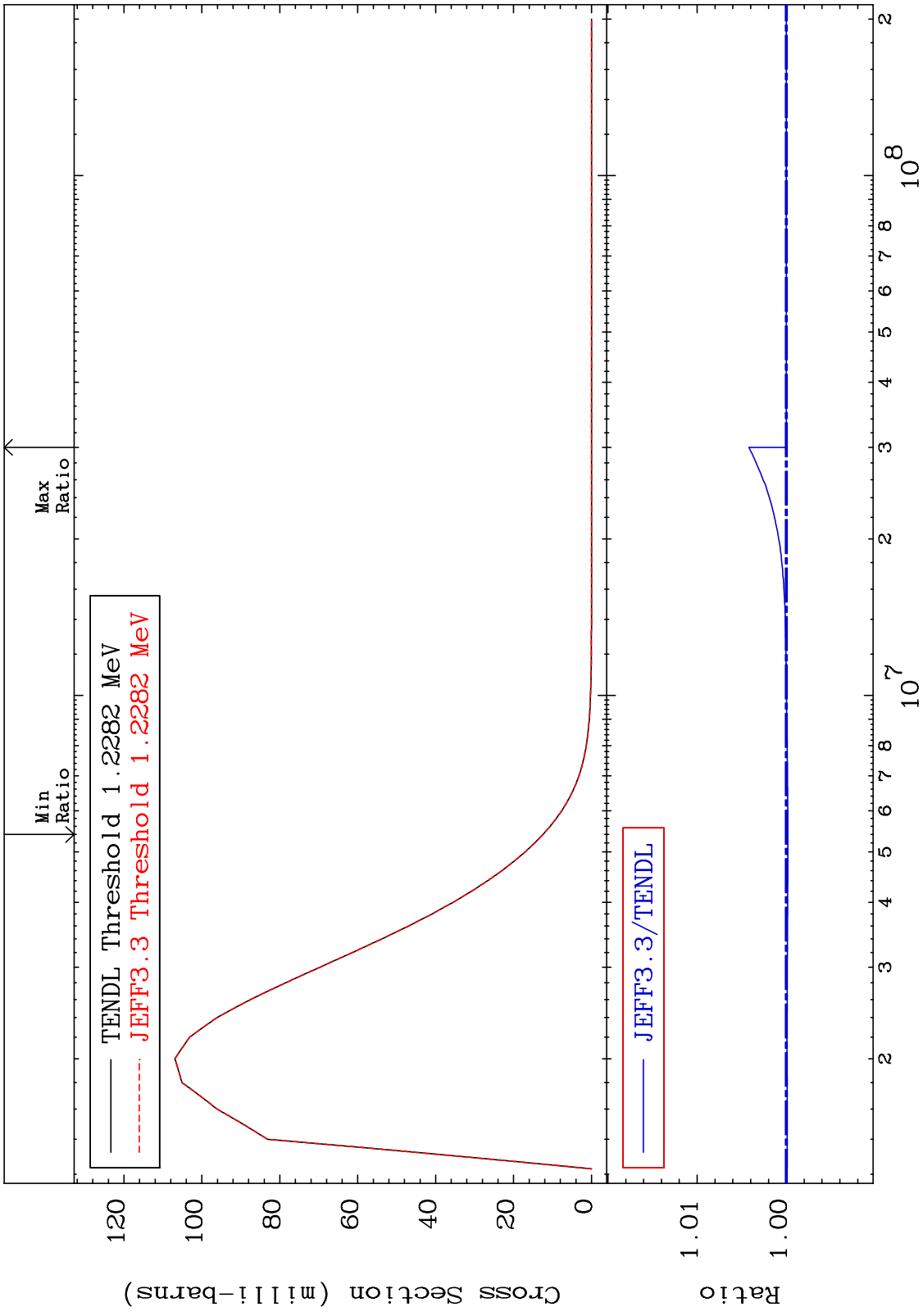
MAT 2728 MT= 62 (n,n') Level Cross Section -0.014 To 0.000 % 27-Co-60



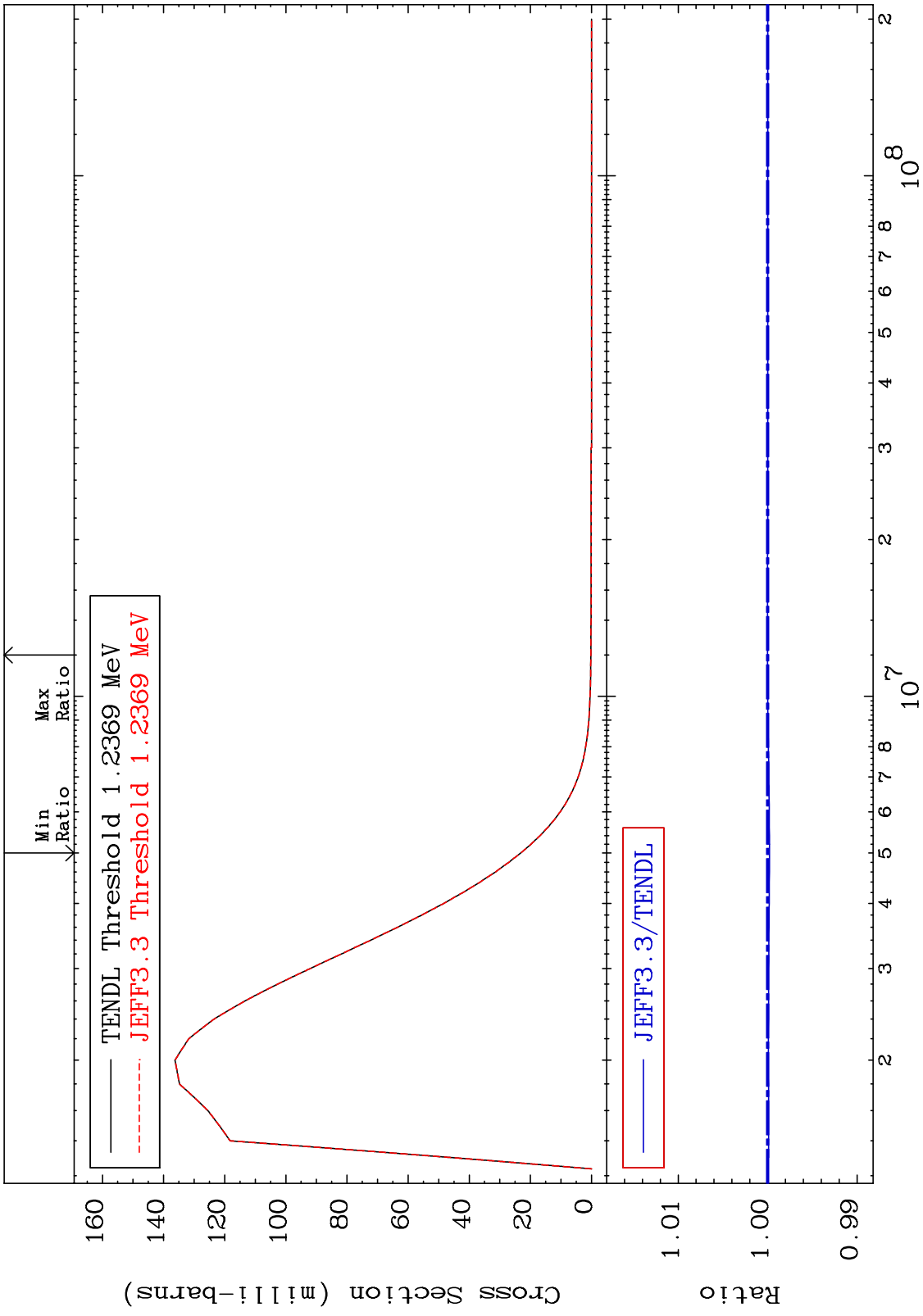
MAT 2728 MT= 63 (n,n') Level Cross Section 27-Co-60
 -0.013 To 0.394 %



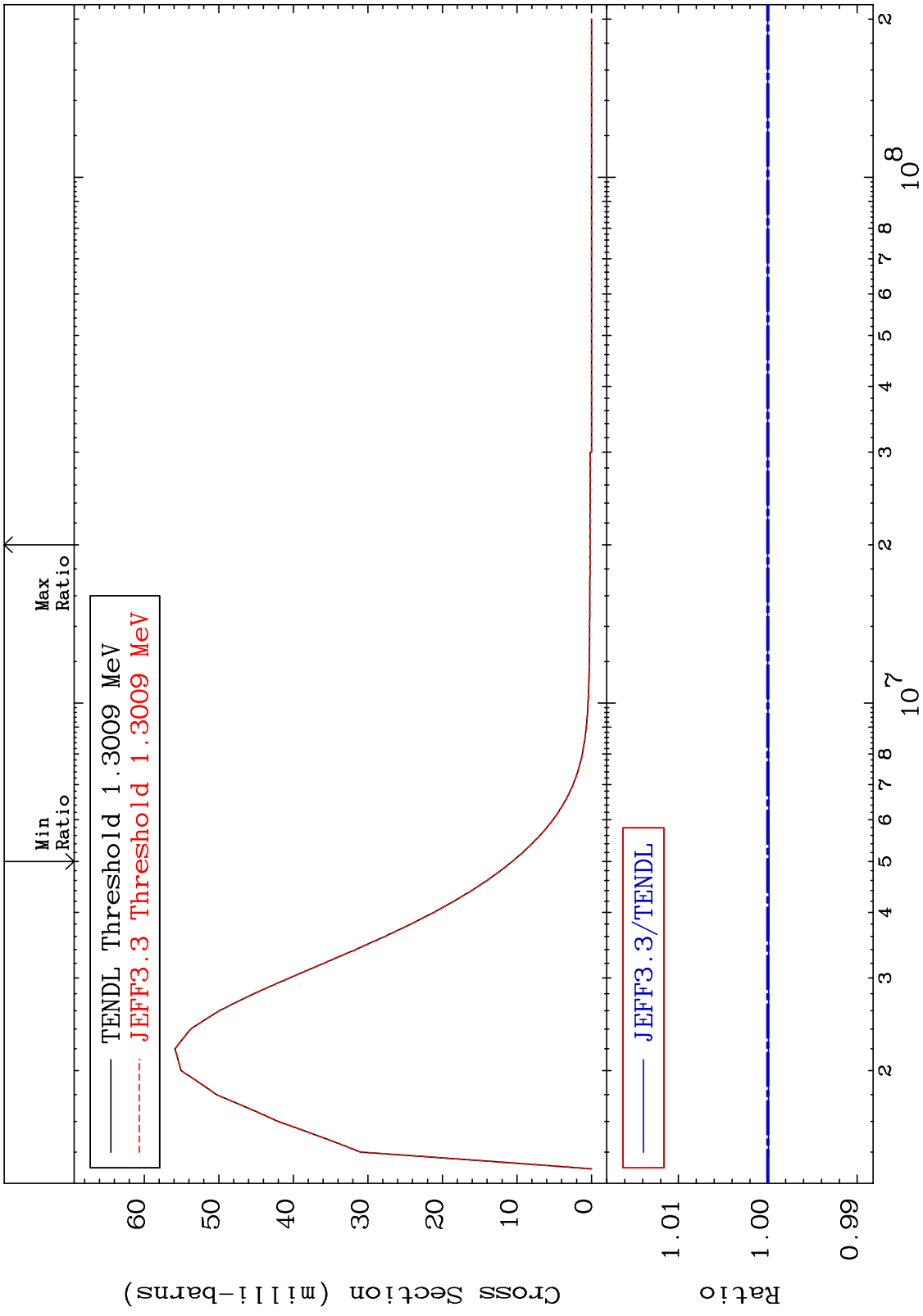
MAT 2728 MT= 65 (n,n') Level Cross Section -0.018 To 0.419 % 27-Co-60



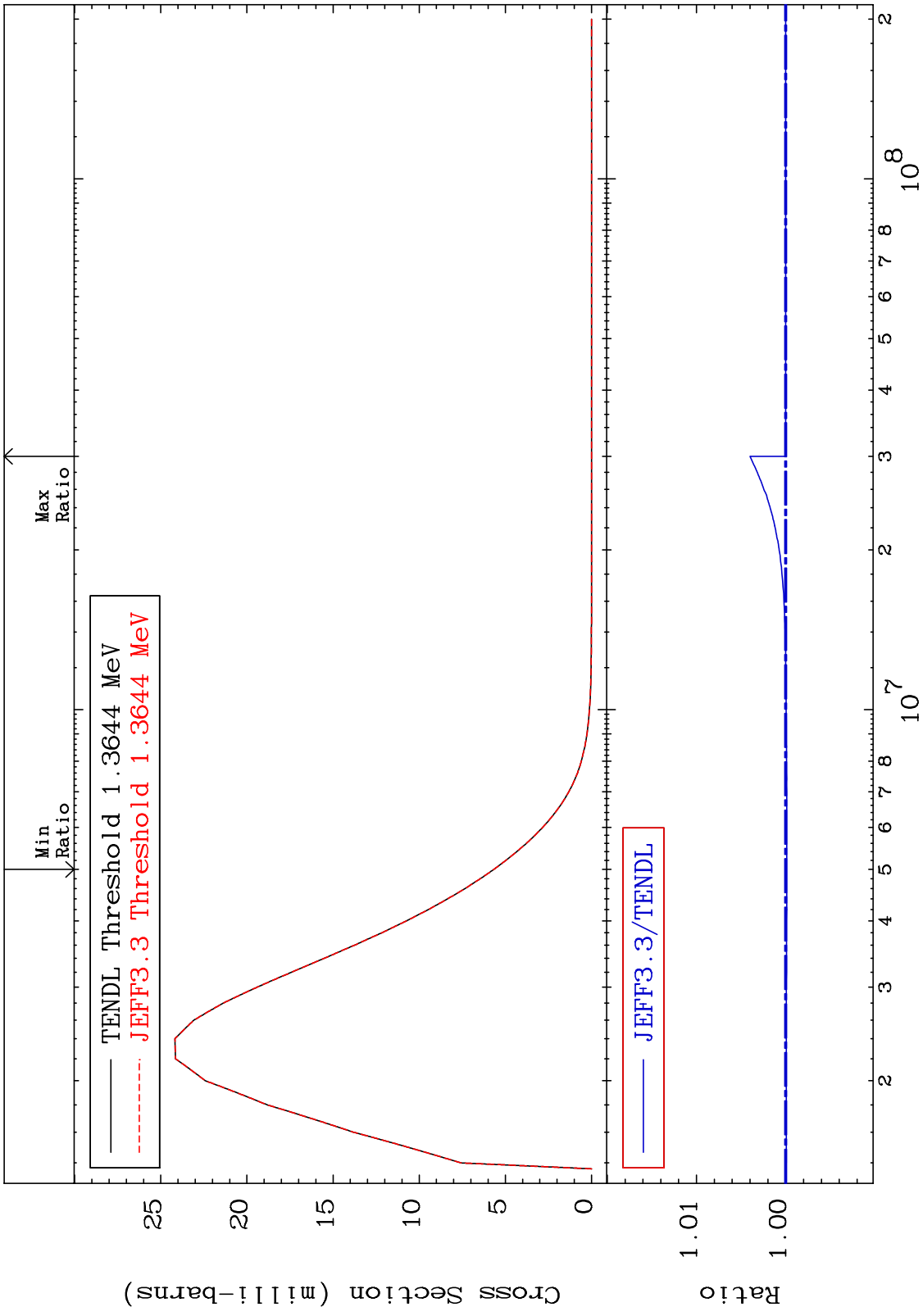
MAT 2728 MT= 66 (n,n') Level Cross Section -0.020 To 0.002 % 27-Co-60



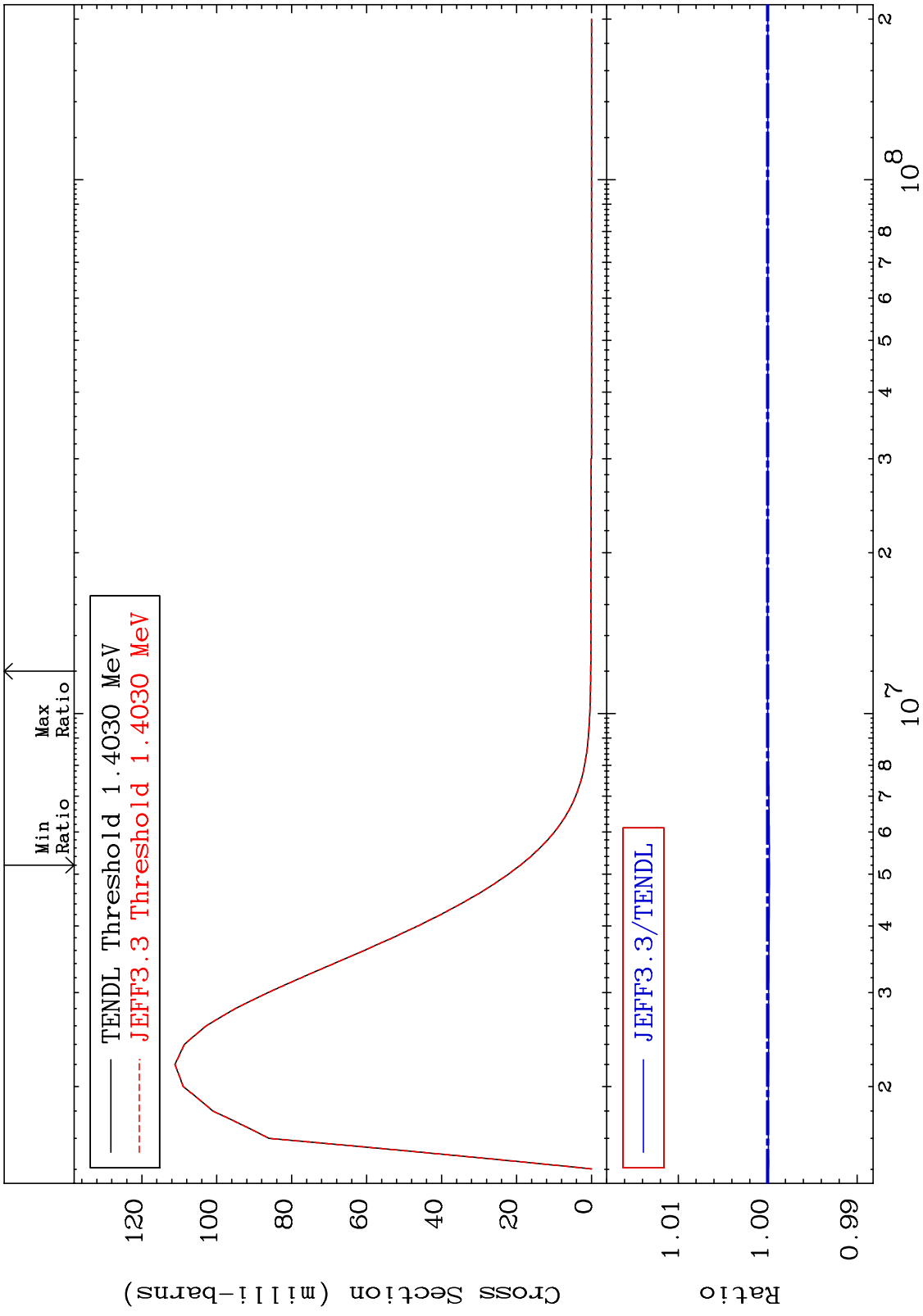
MAT 2728 MT= 67 (n,n') Level Cross Section -0.014 To 0.000 % 27-Co-60



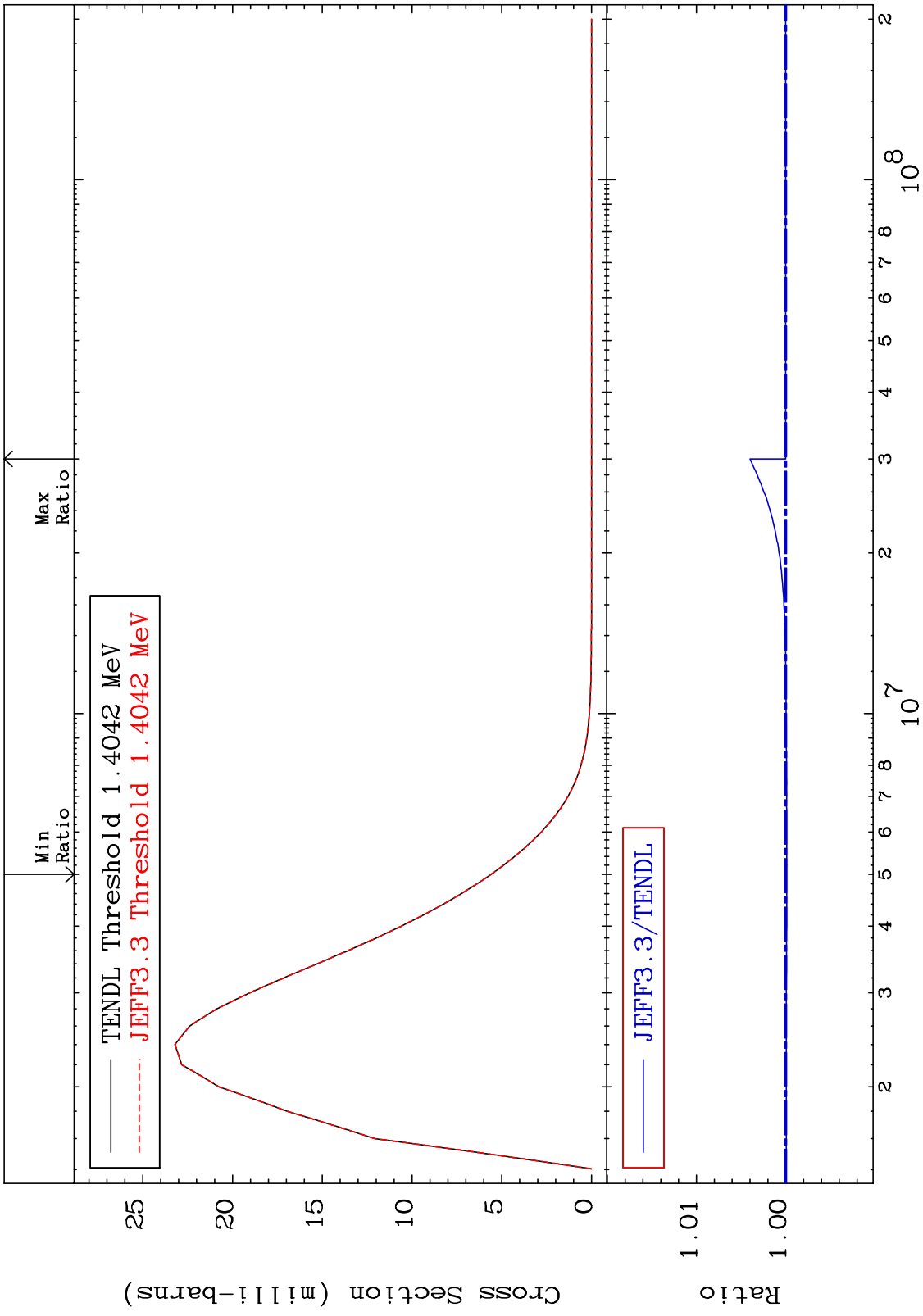
MAT 2728 MT= 68 (n,n') Level Cross Section 27-Co-60
 -0.012 To 0.400 %



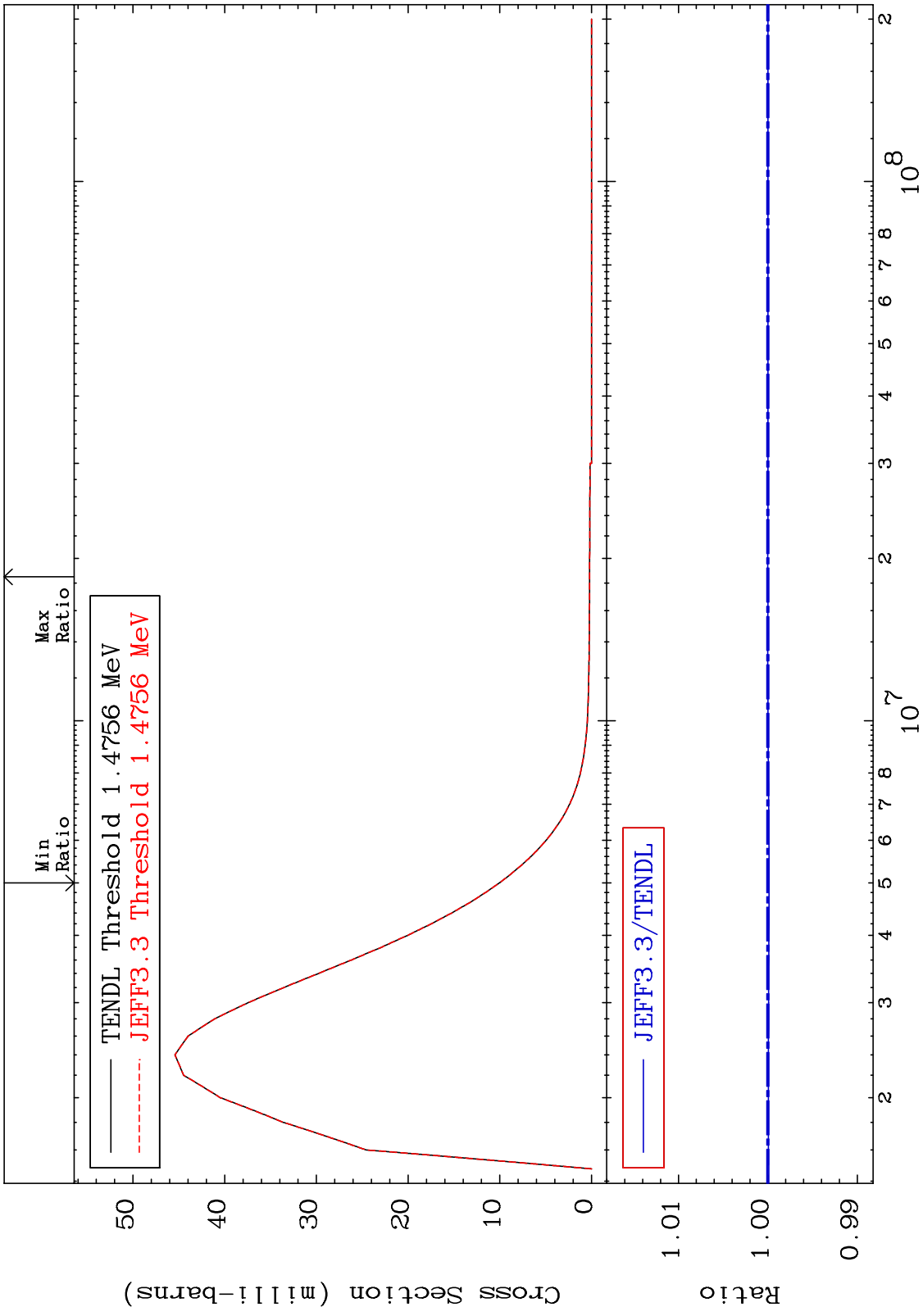
MAT 2728 MT= 69 (n,n') Level Cross Section -0.020 To 0.002 % 27-Co-60



MAT 2728 MT= 70 (n,n') Level Cross Section -0.012 To 0.399 % 27-Co-60



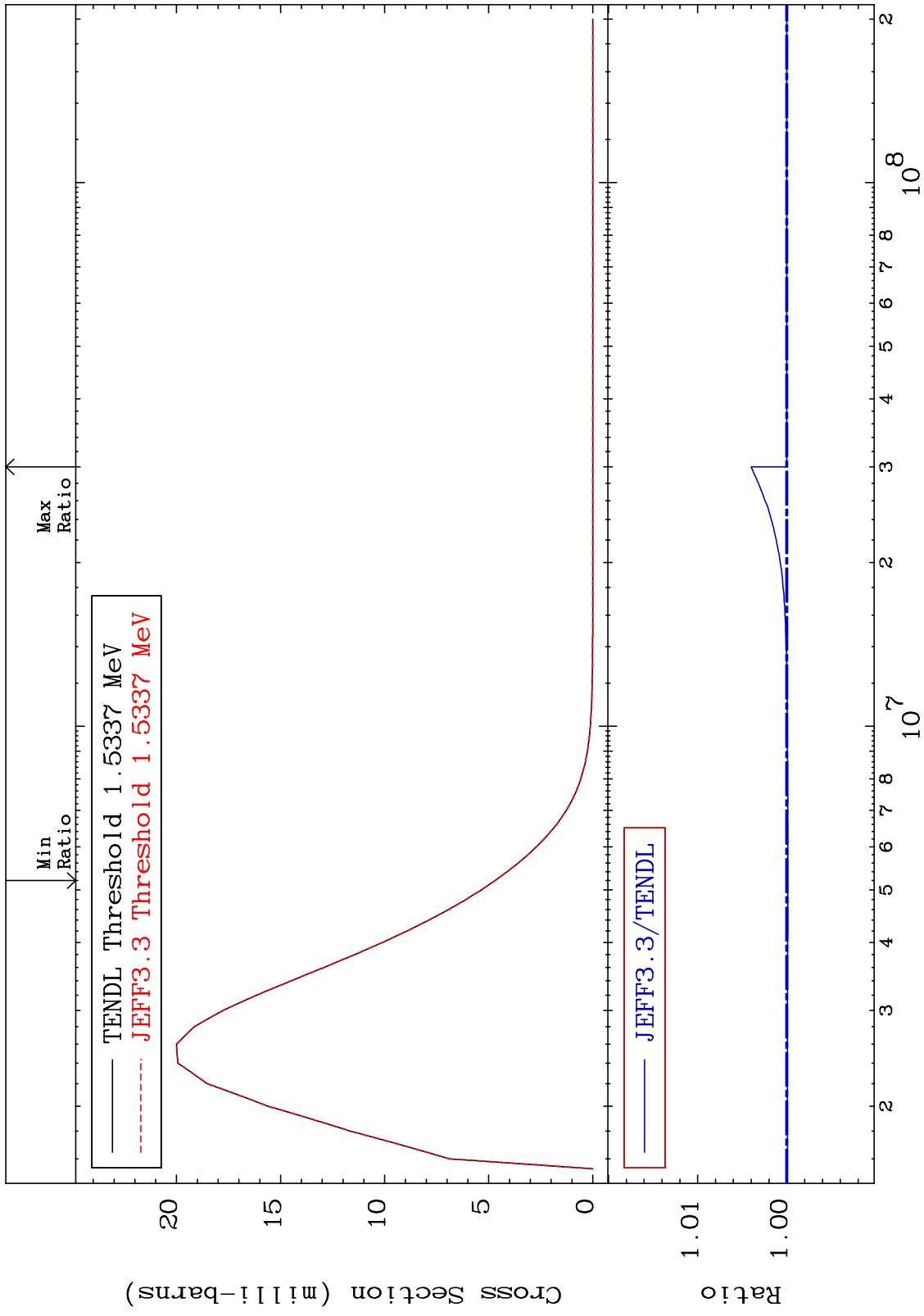
MAT 2728 MT= 71 (n,n') Level Cross Section -0.014 To 0.000 % 27-Co-60



MAT 2728

MT= 72 (n,n') Level
Cross Section

27-Co-60
-0.012 To 0.400 %

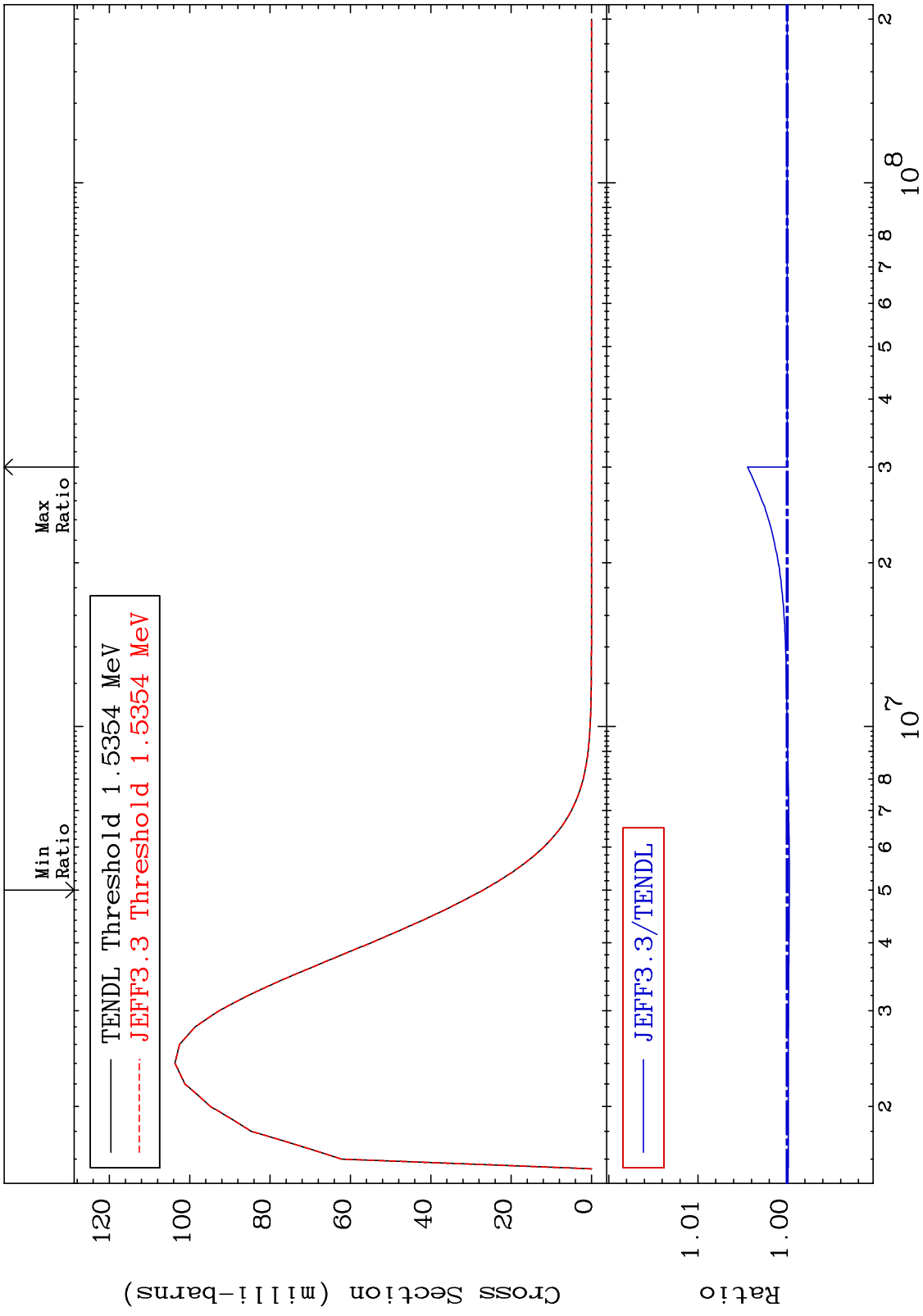


40

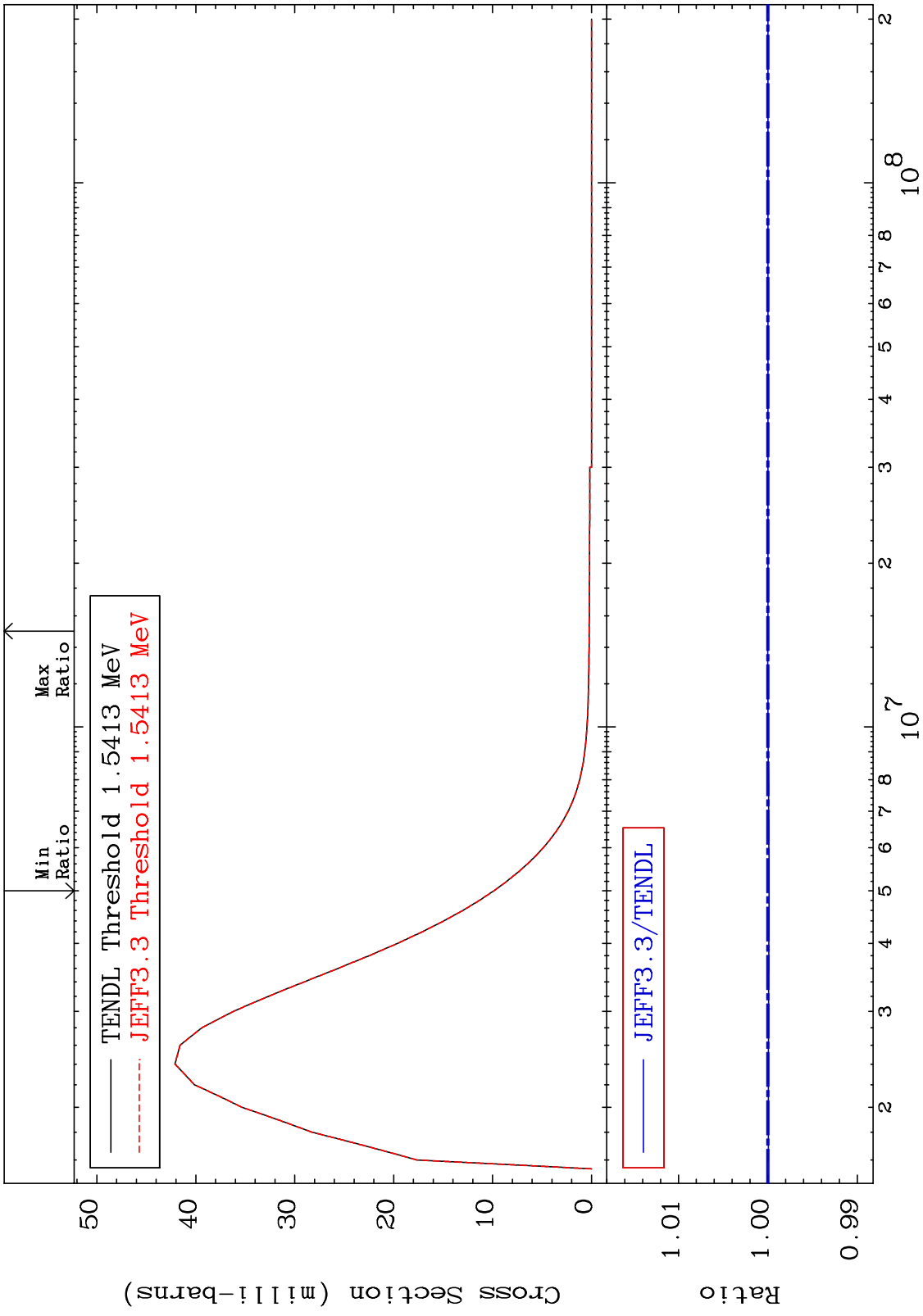
Incident Energy (eV)

27-Co-60

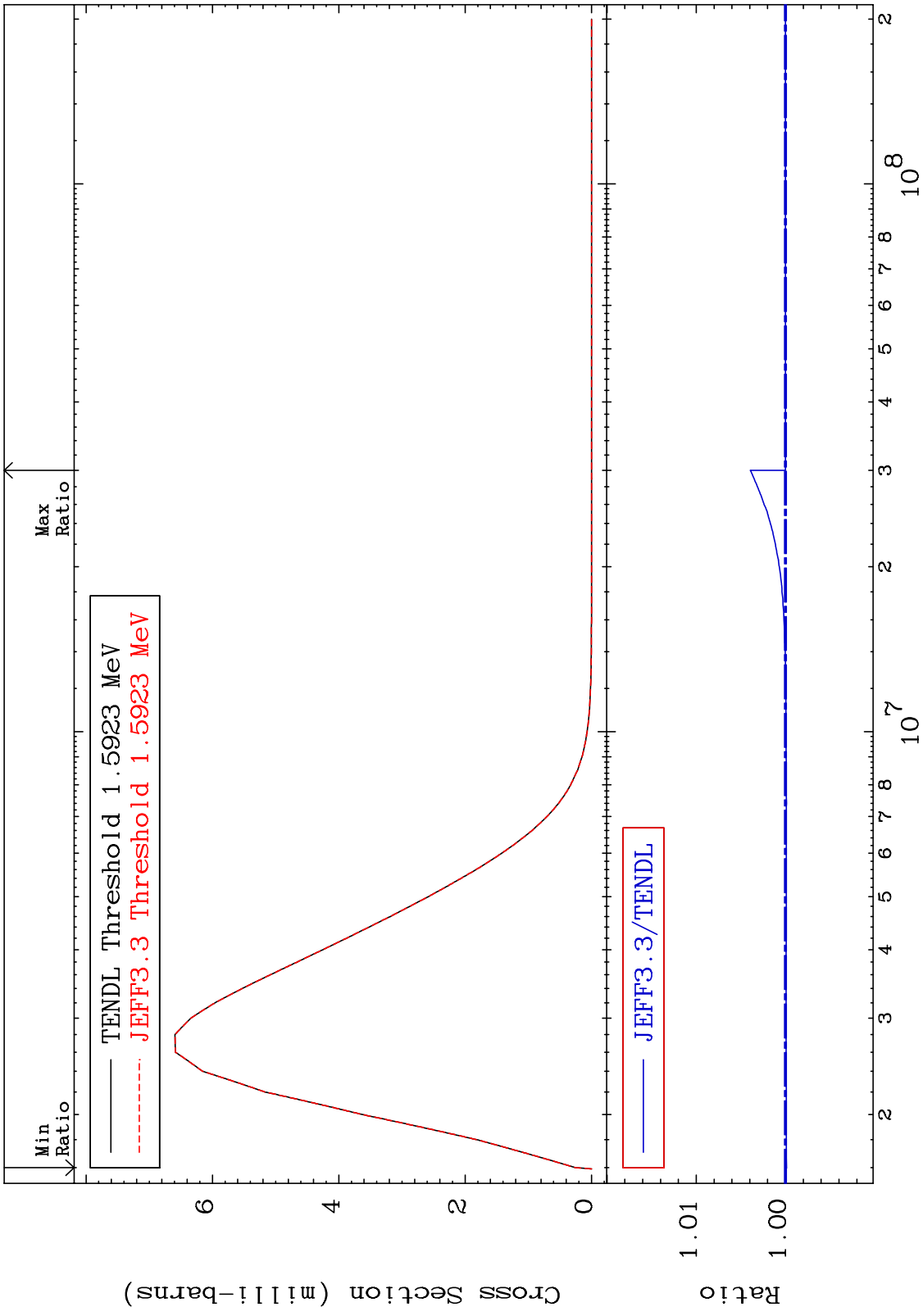
MAT 2728 MT= 73 (n,n') Level Cross Section -0.024 To 0.444 % 27-Co-60



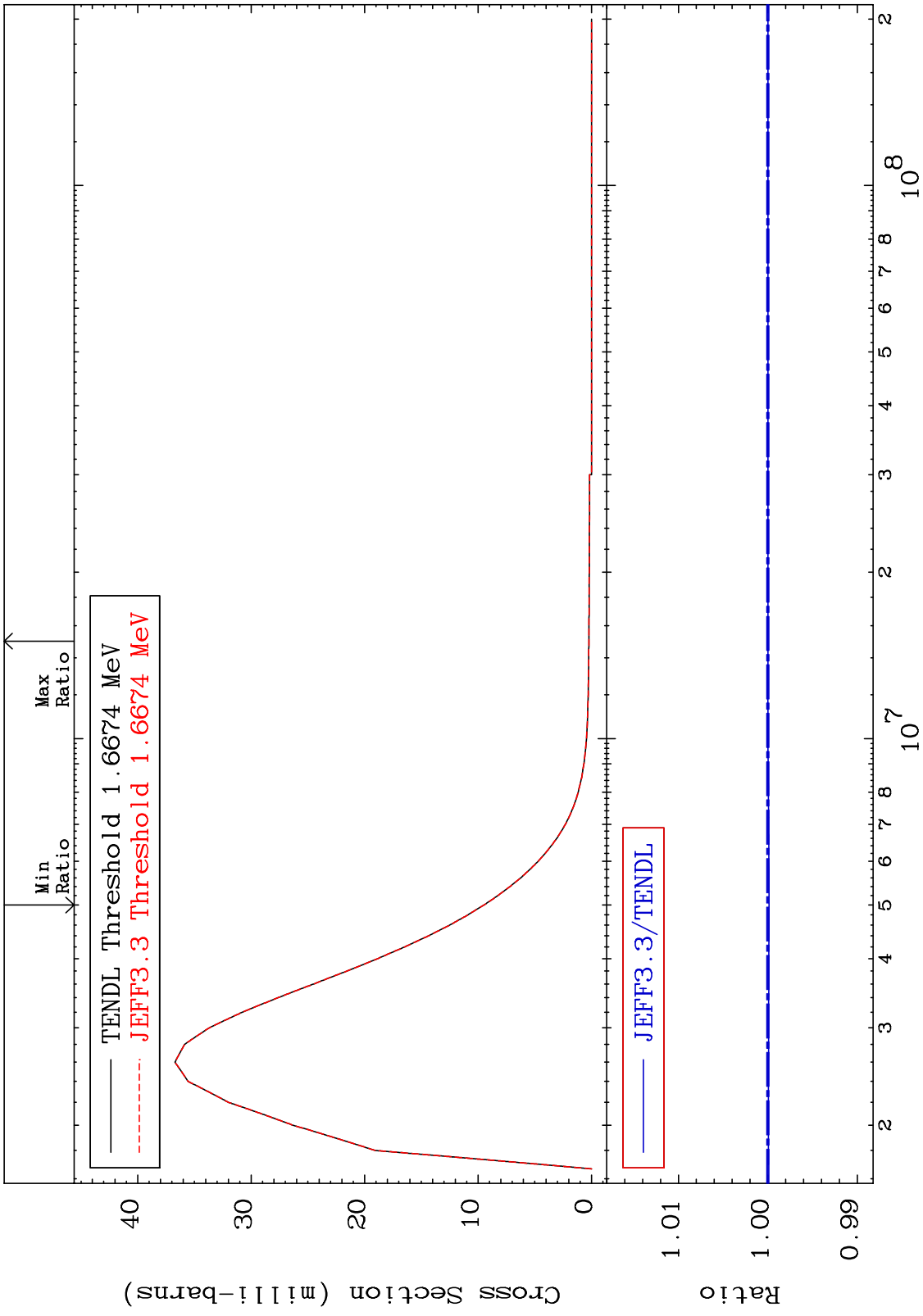
MAT 2728 MT= 74 (n,n') Level Cross Section -0.014 To 0.000 % 27-Co-60



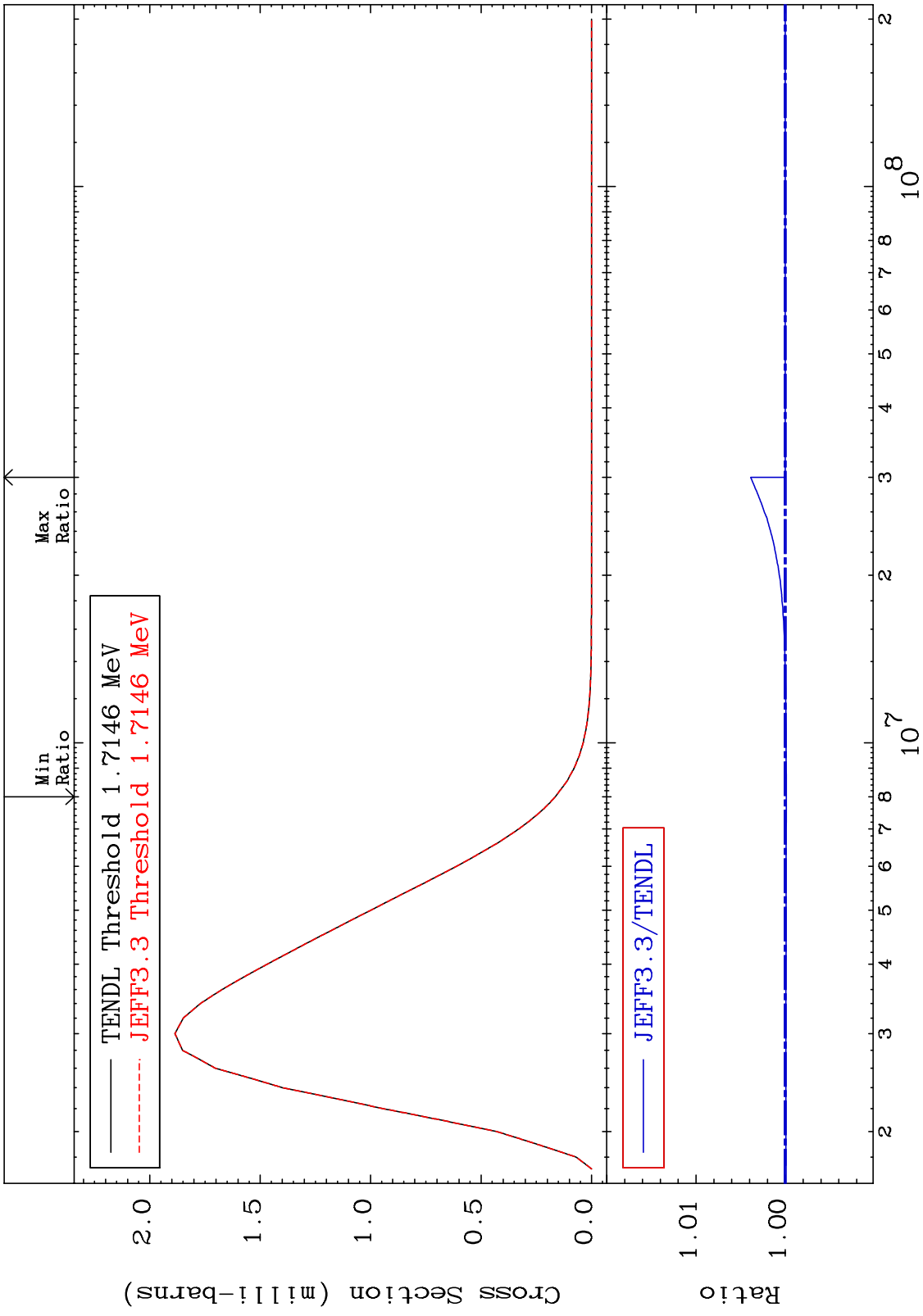
MAT 2728 MT= 75 (n,n') Level Cross Section -0.012 To 0.393 % 27-Co-60



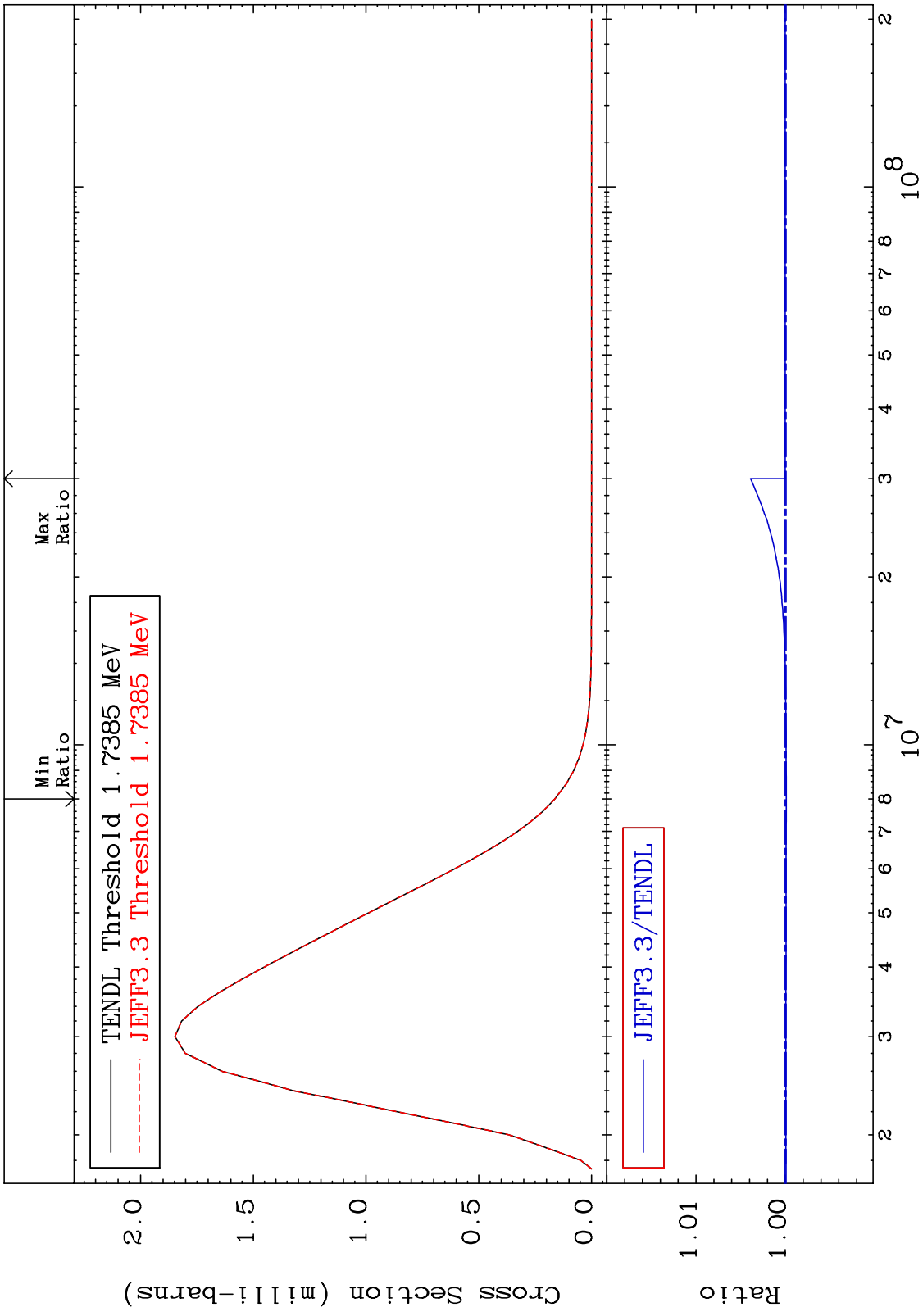
MAT 2728 MT= 76 (n,n') Level Cross Section -0.014 To 0.000 % 27-Co-60



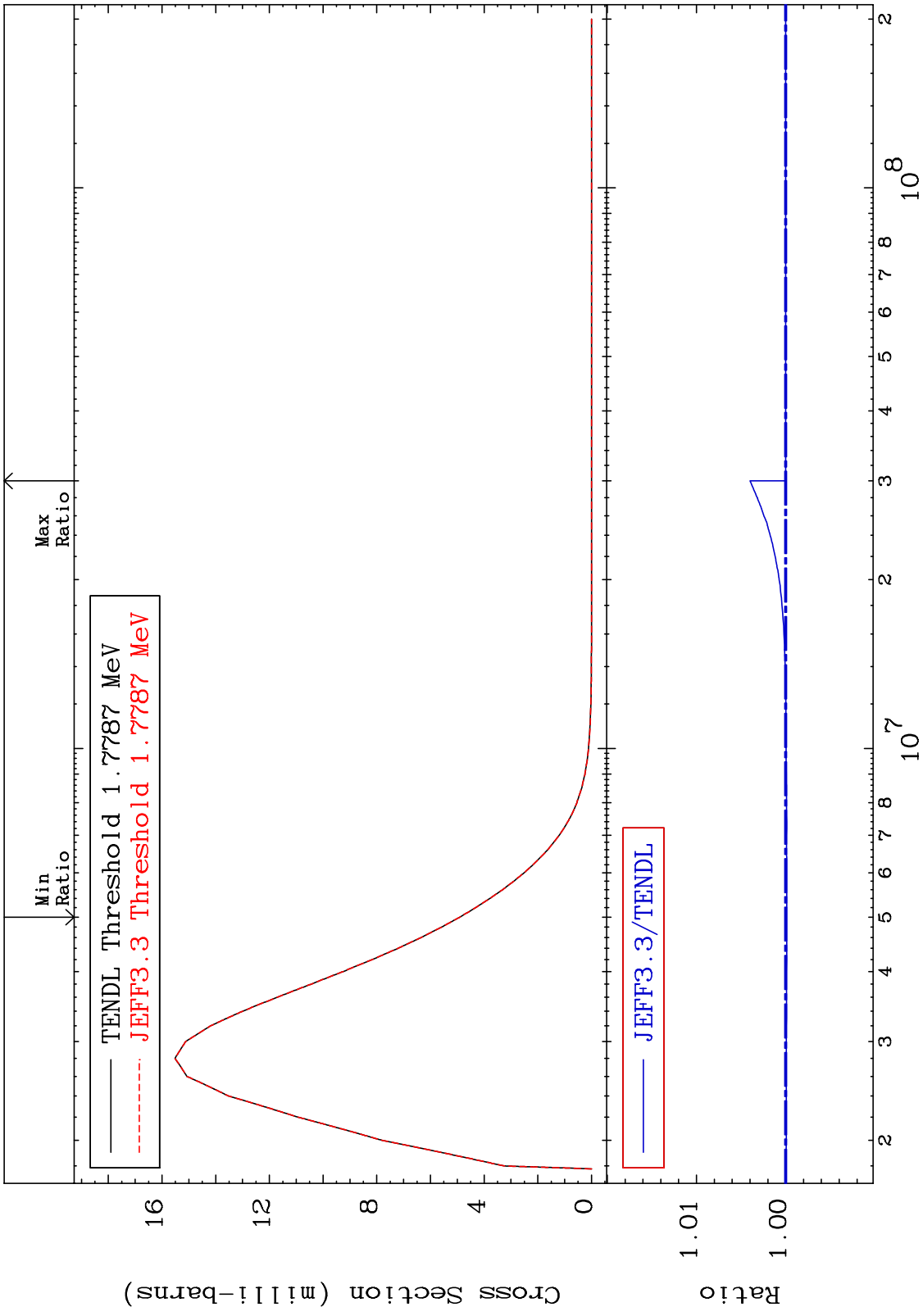
MAT 2728 MT= 78 (n,n') Level Cross Section 27-Co-60
 -0.012 To 0.389 %



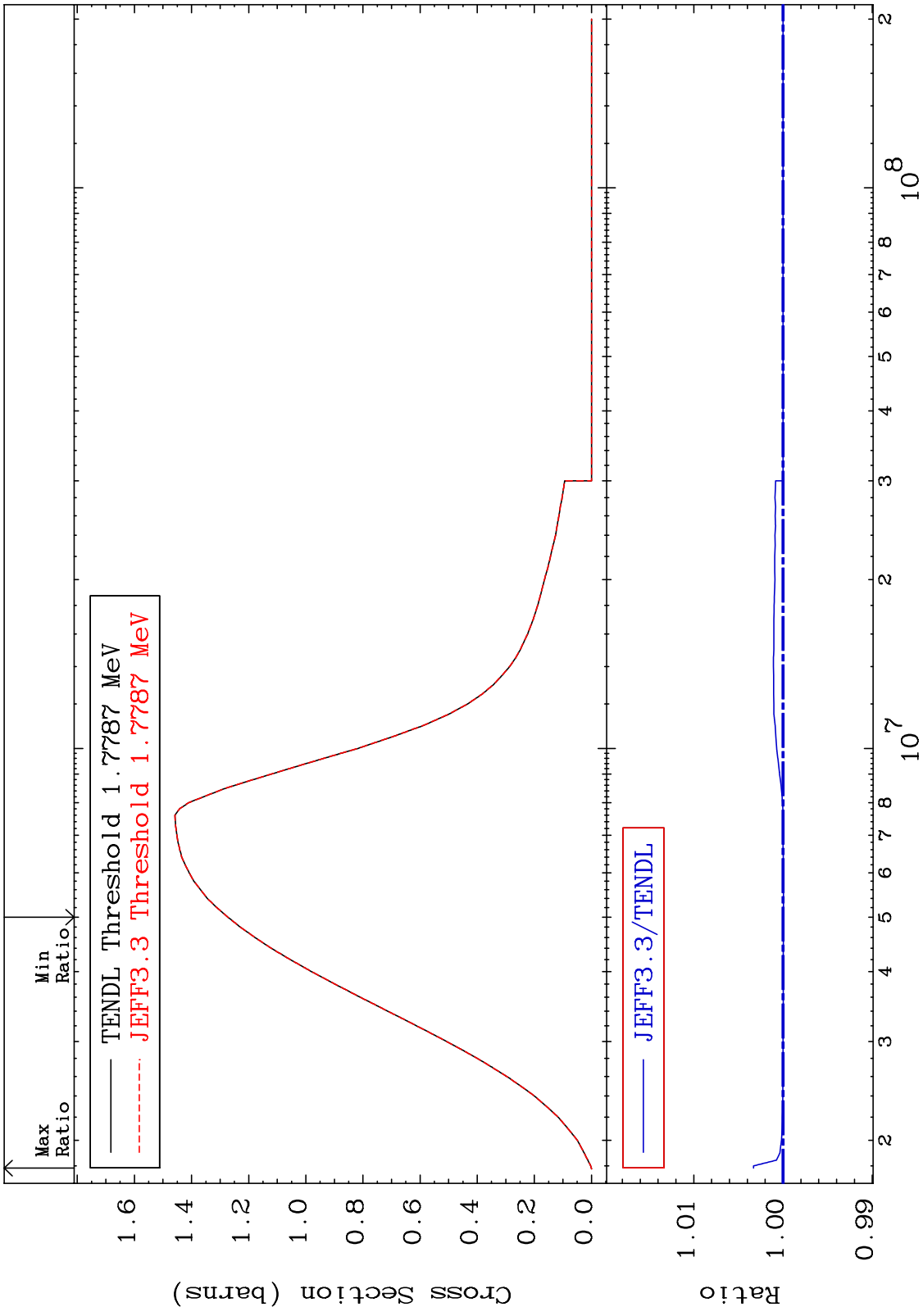
MAT 2728 MT= 79 (n,n') Level Cross Section -0.012 To 0.389 % 27-Co-60



MAT 2728 MT= 80 (n,n') Level Cross Section 27-Co-60
 -0.012 To 0.399 %



MAT 2728 (n,n') Continuum Cross Section 27-Co-60 -0.005 To 0.332 %



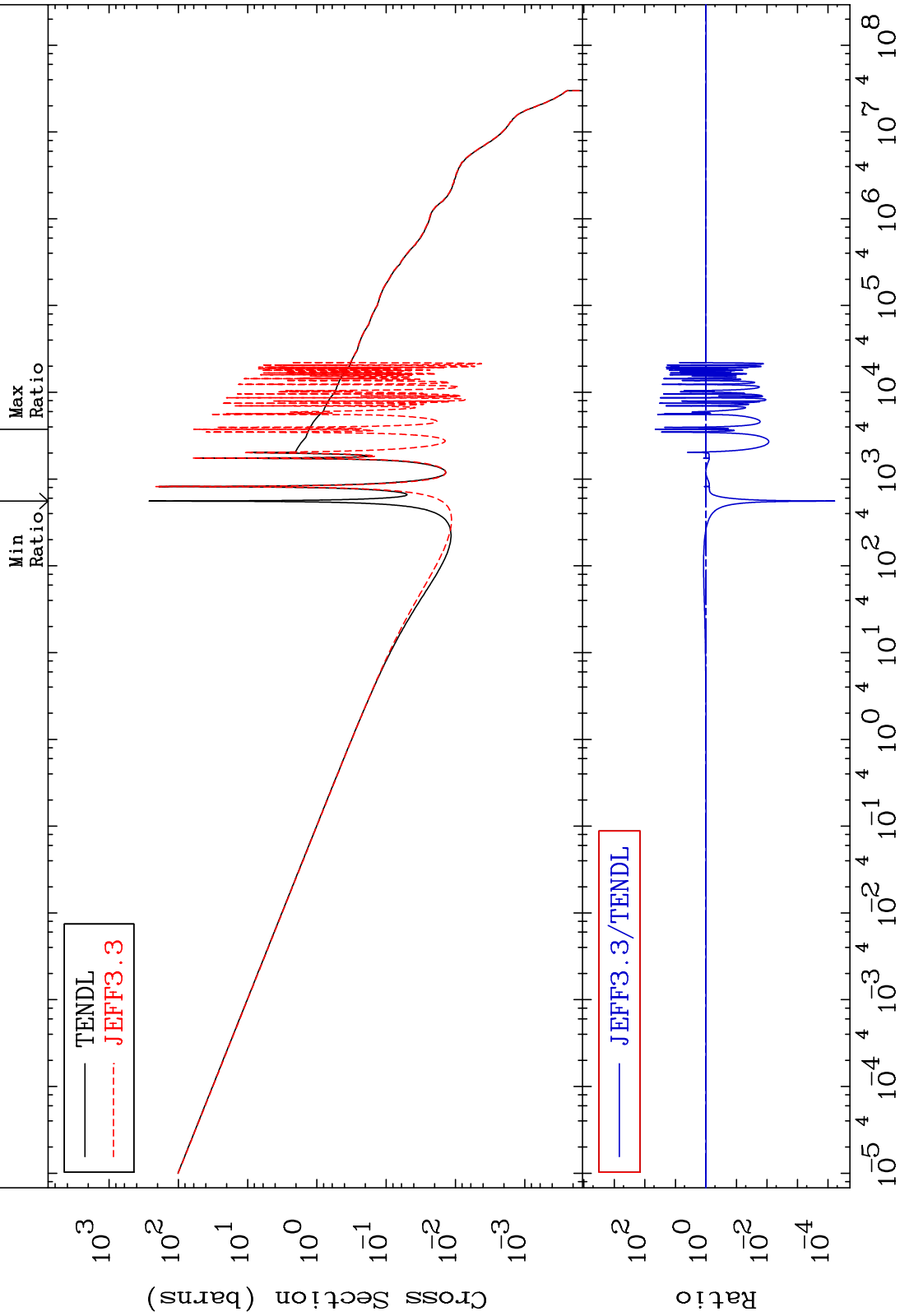
MAT 2728

(n, γ)

27-Co-60

-99.99 To 4502. %

Cross Section



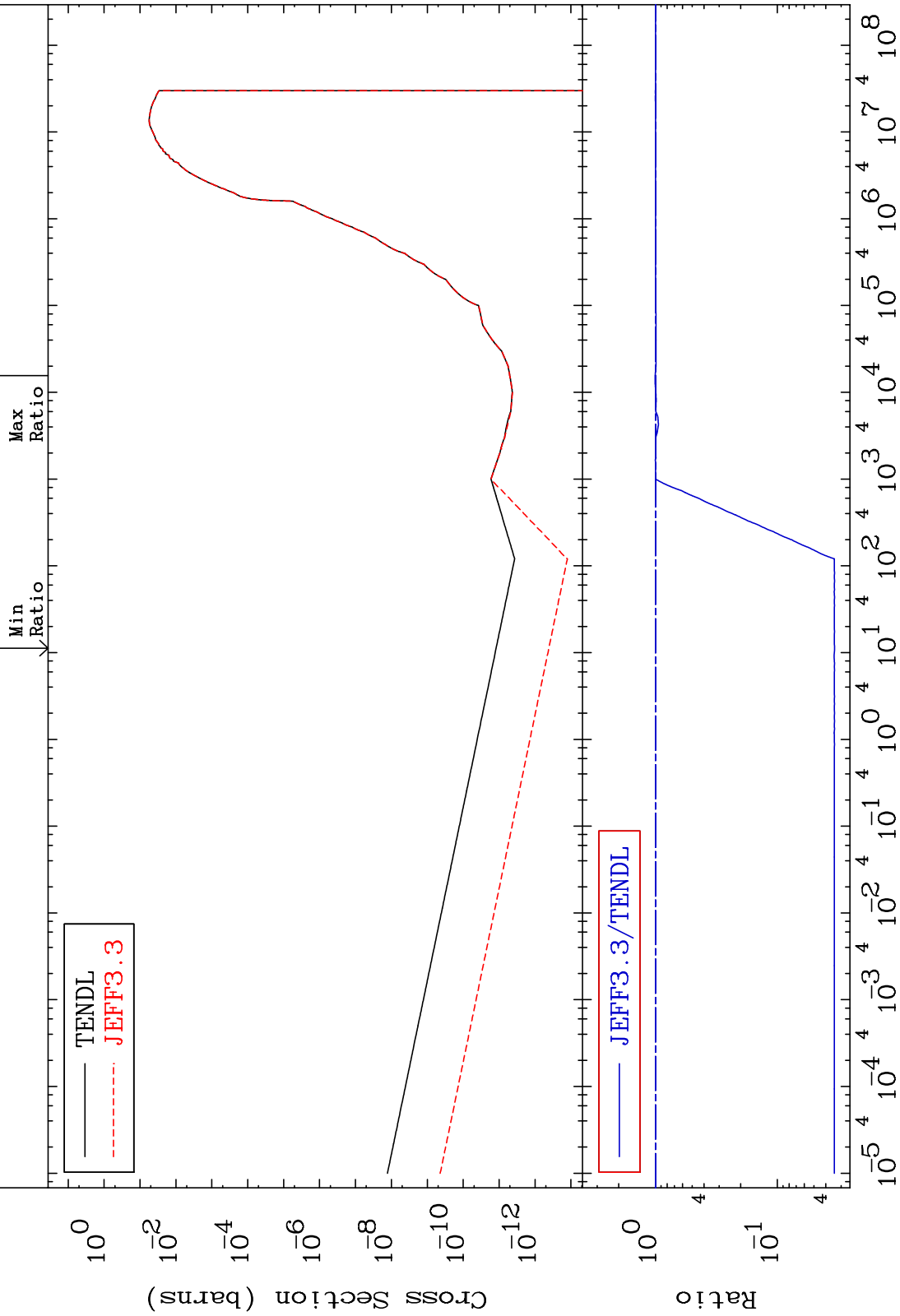
MAT 2728

(n,p)

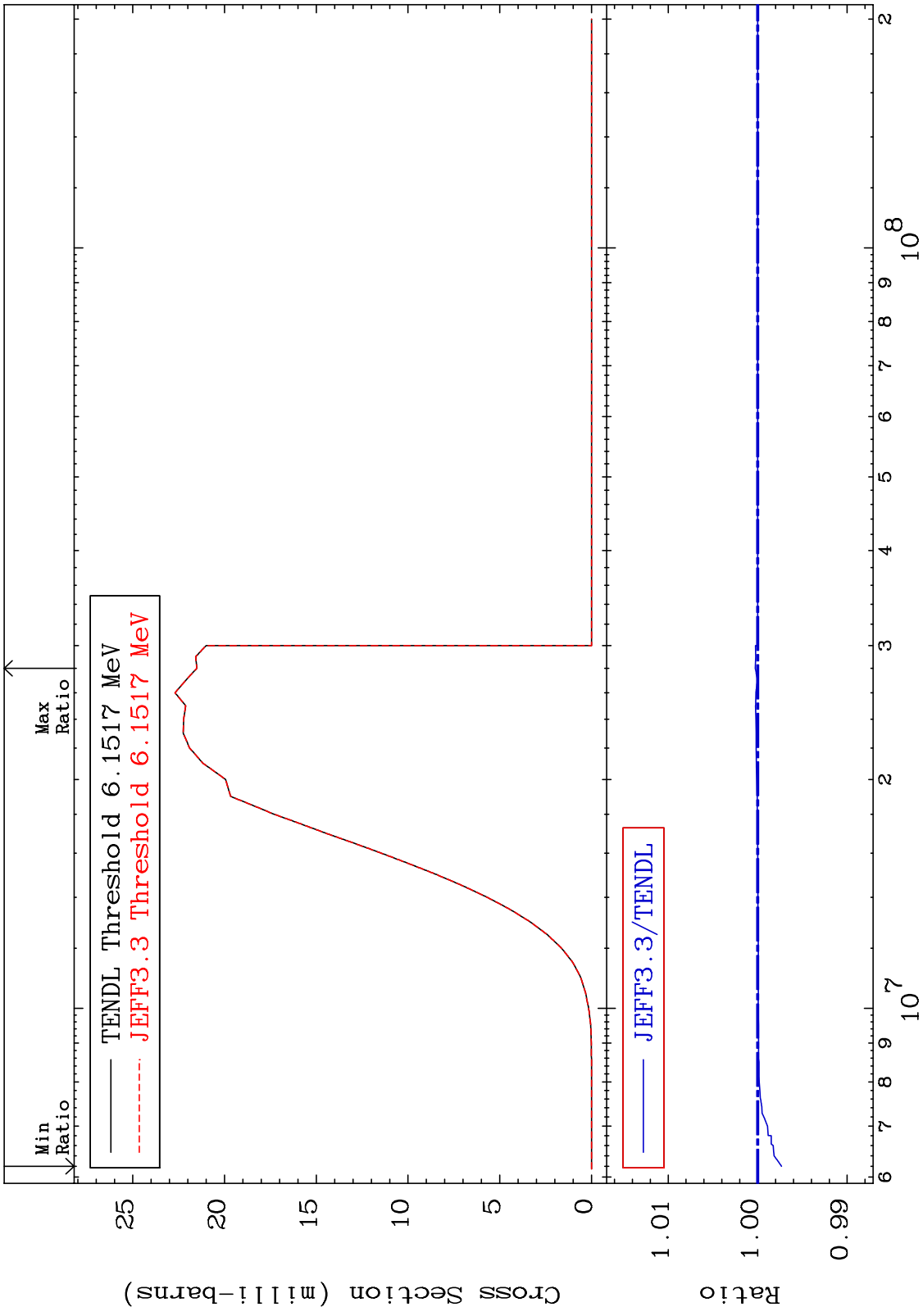
27-Co-60

-96.61 To 0.523 %

Cross Section

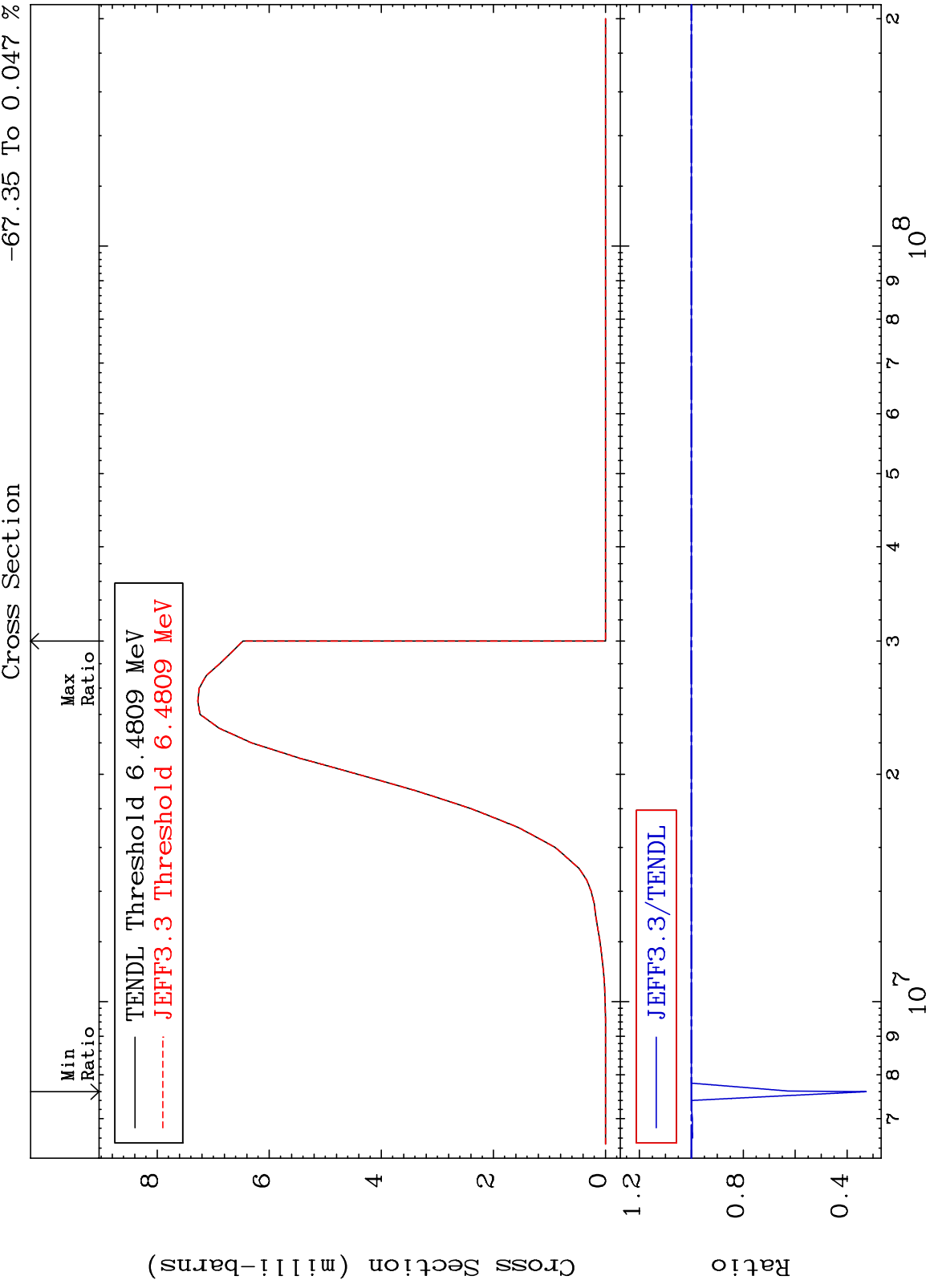


MAT 2728 (n,d) 27-Co-60
Cross Section -0.266 To 0.026 %



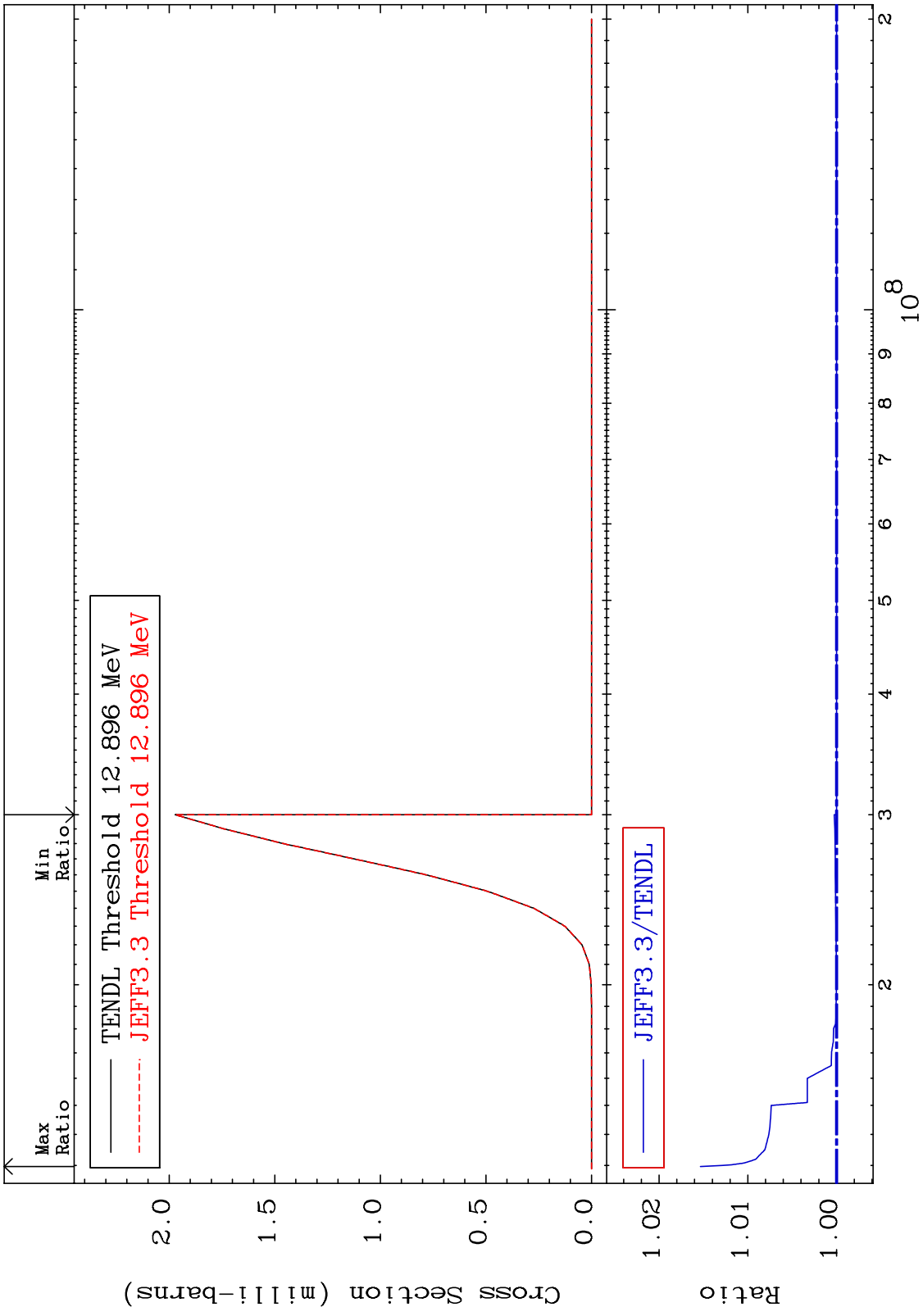
51 27-Co-60

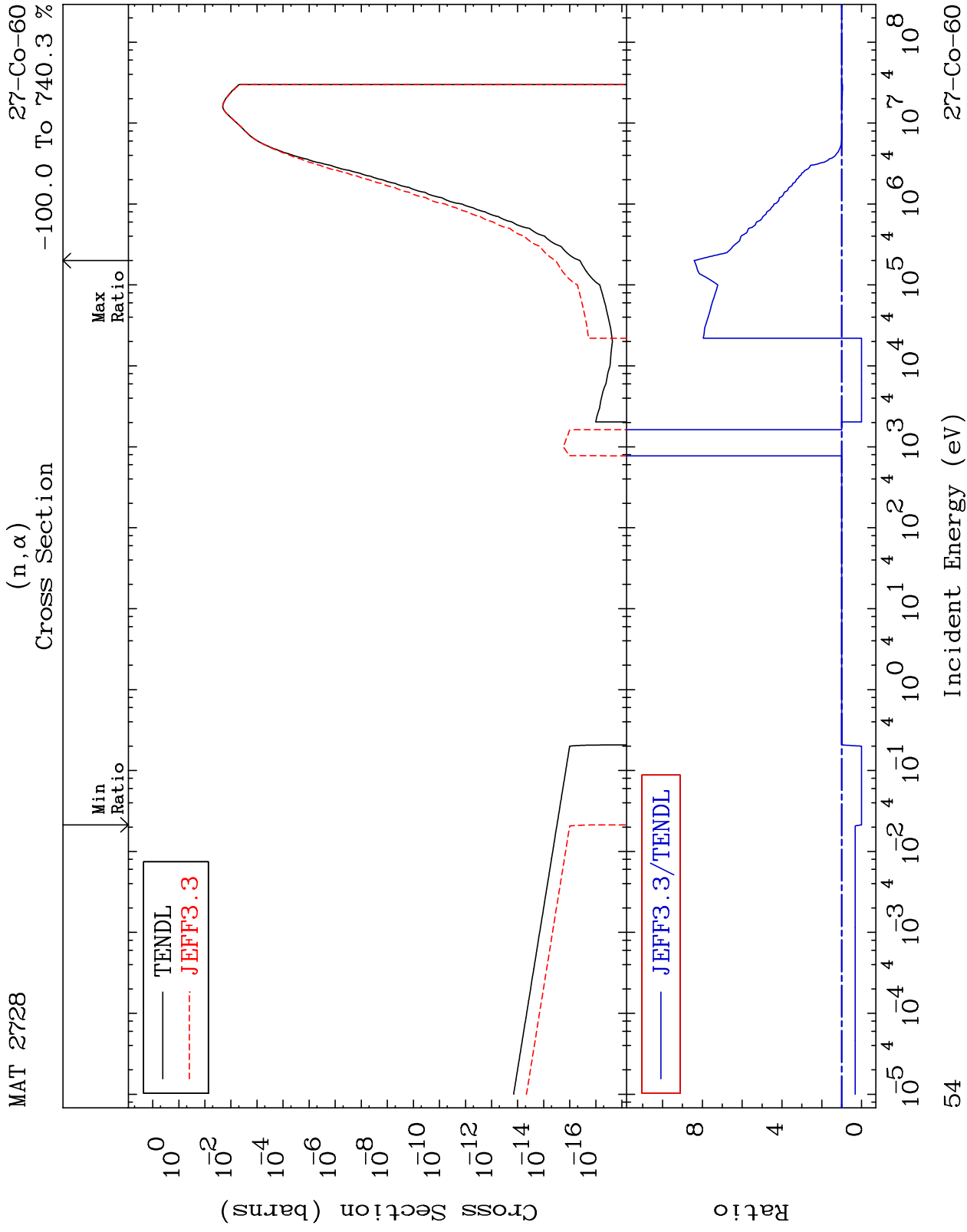
MAT 2728 (n,t) 27-Co-60
-67.35 To 0.047 %



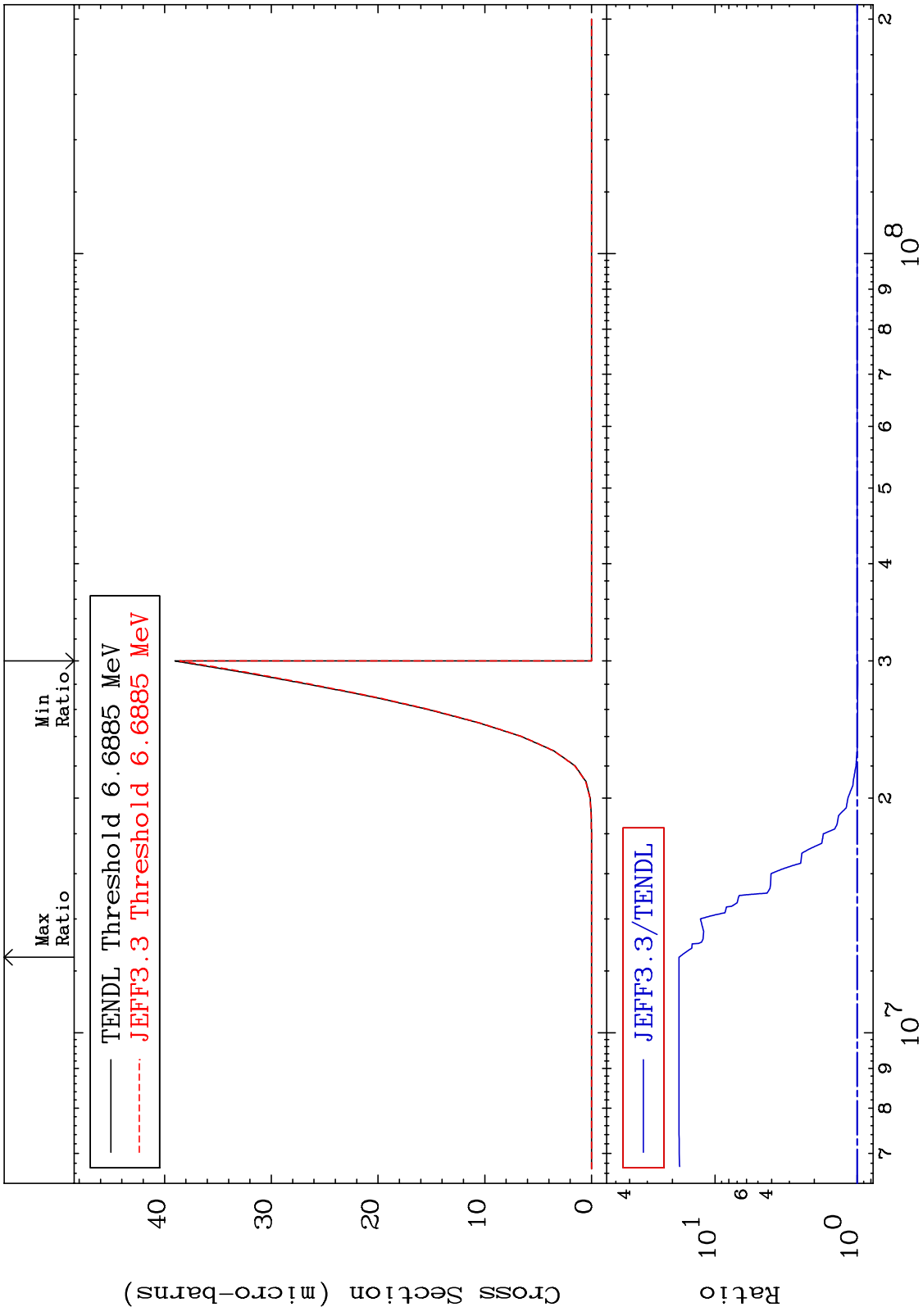
52 27-Co-60

MAT 2728 (n, He-3) 27-Co-60
 Cross Section 0.000 To 1.535 %



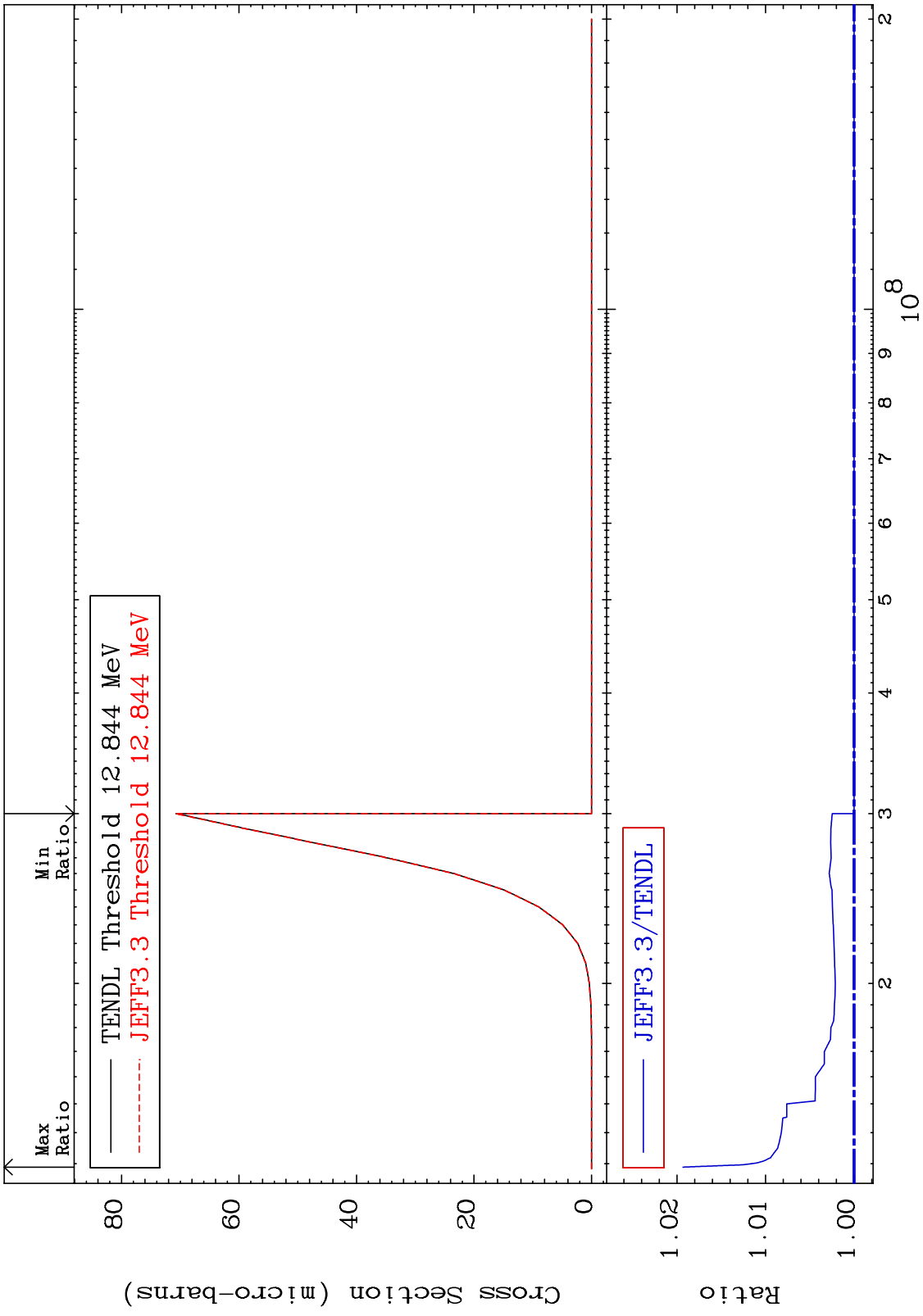


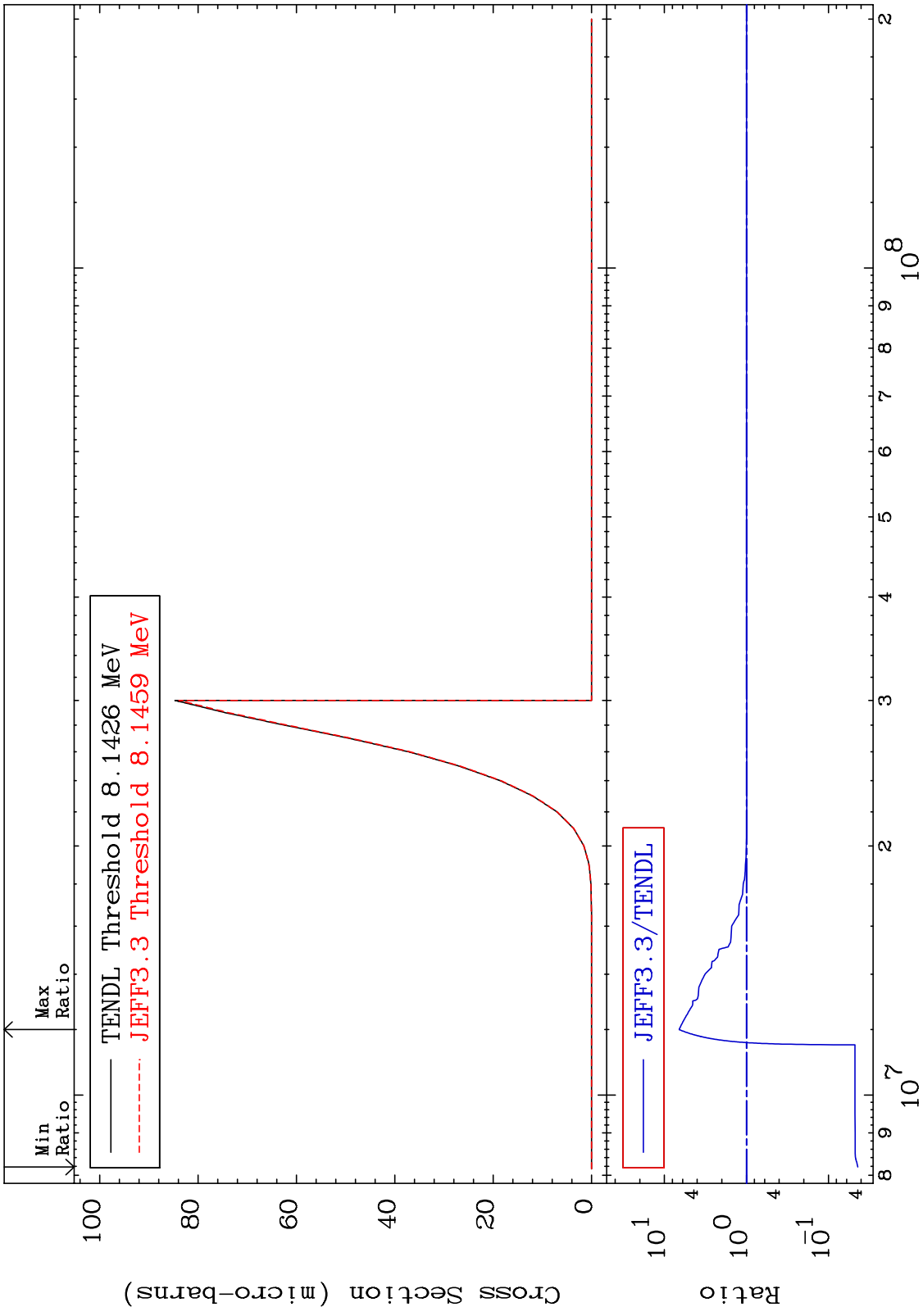
MAT 2728 $(n, 2\alpha)$ $^{27}\text{Co-60}$
 -1.150 To 1693. %
 Cross Section



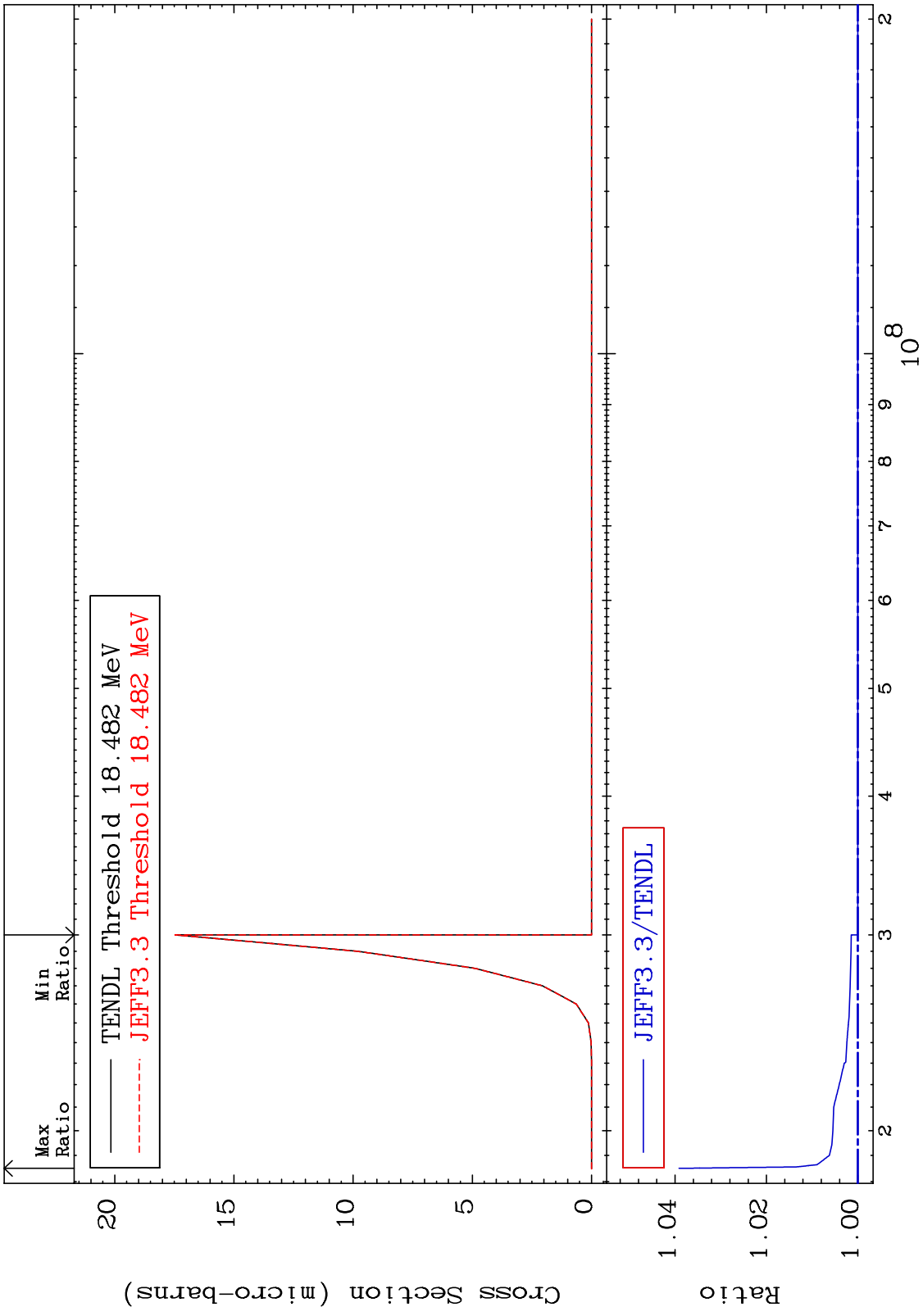
55 $^{27}\text{Co-60}$

MAT 2728 (n,2p) Cross Section 27-Co-60 To 1.934 %

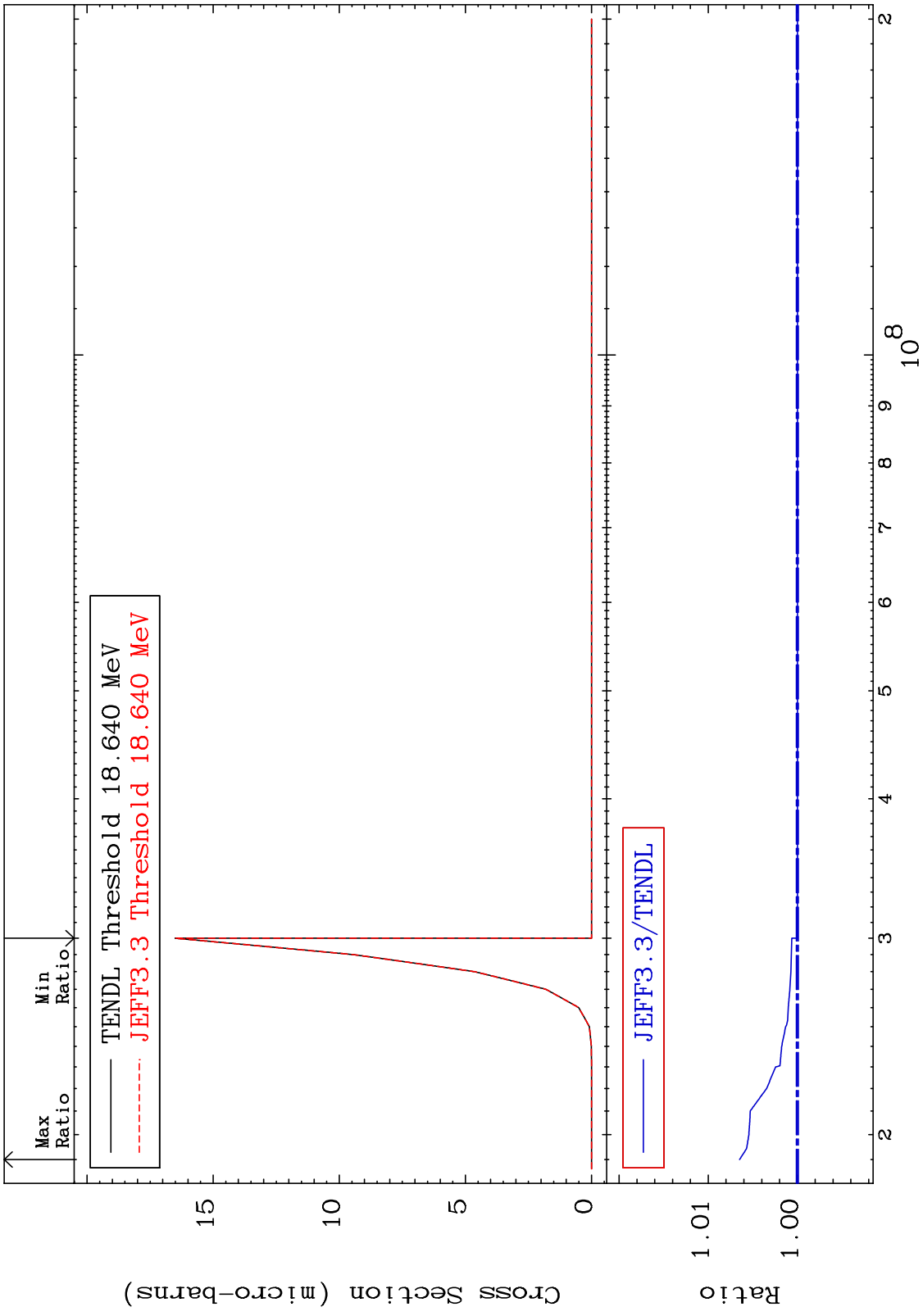




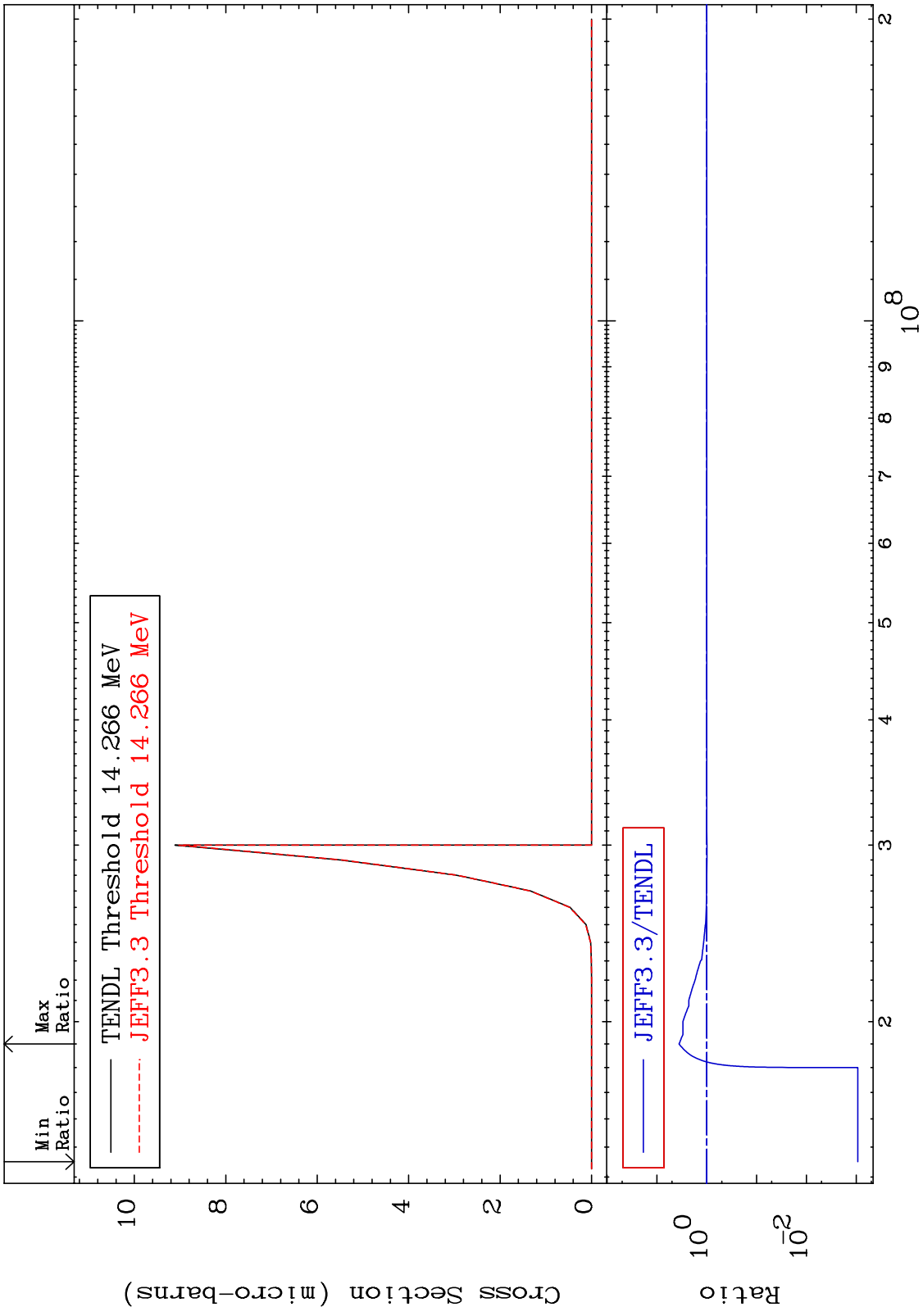
MAT 2728 (n,p) d 27-Co-60
 Cross Section 0.000 To 3.913 %



MAT 2728 (n,p) t 27-Co-60
 Cross Section 0.000 To 0.649 %



MAT 2728 (n,d) α 27-Co-60
 Cross Section -99.91 To 259.4 %

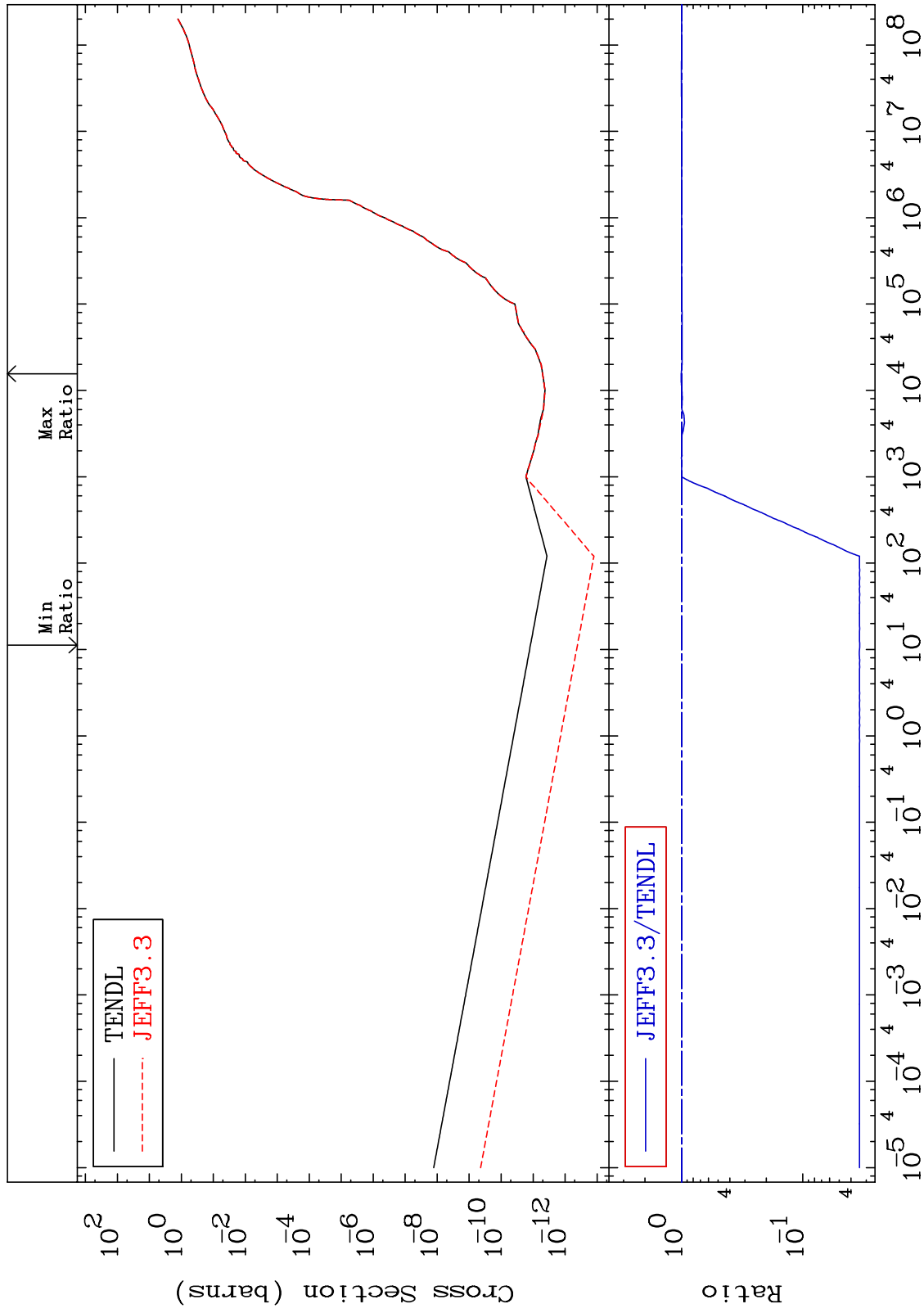


60 27-Co-60

MAT 2728

Hydrogen Production Cross Section

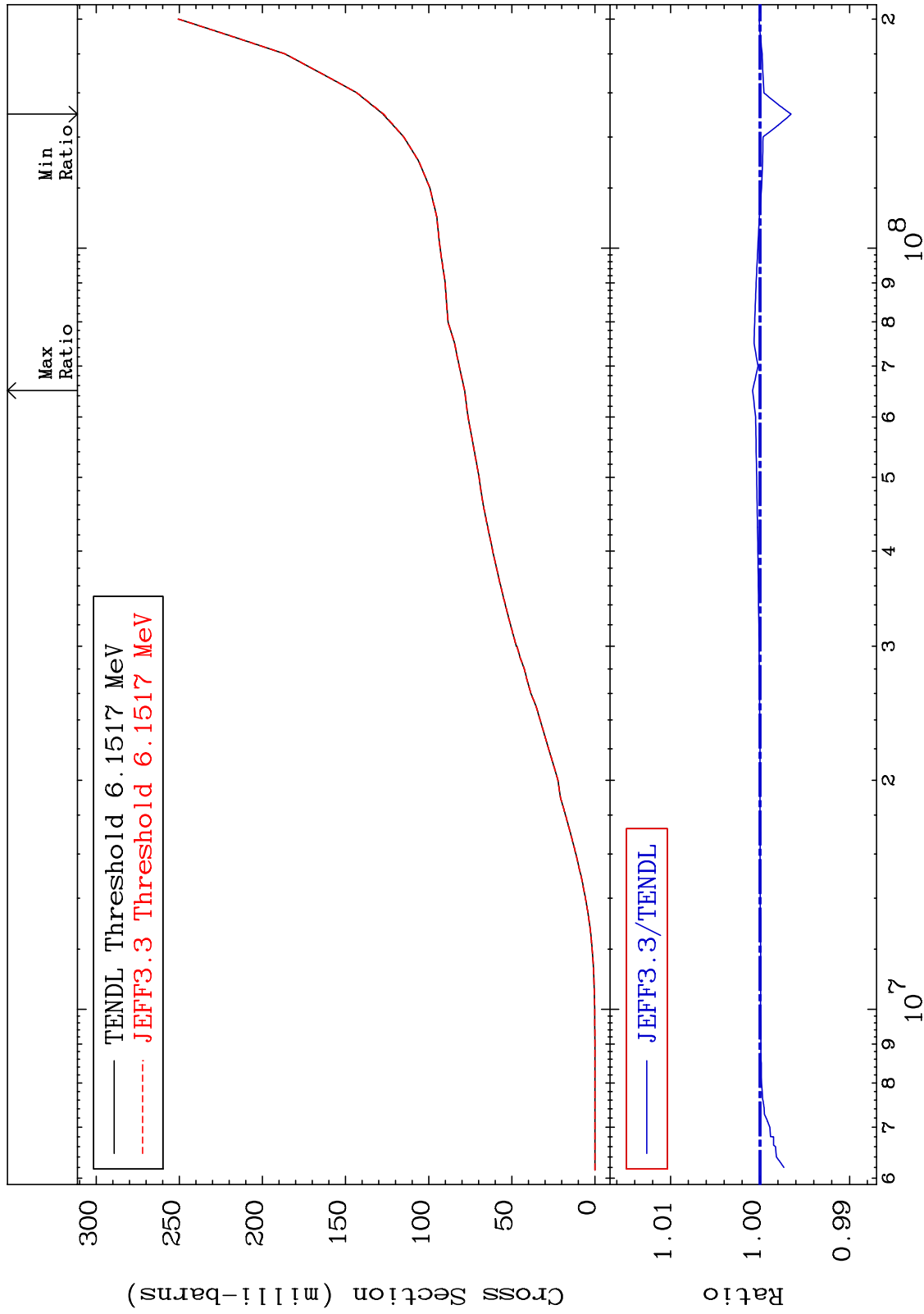
27-Co-60
-96.61 To 0.523 %



MAT 2728

Deuterium Production
Cross Section

²⁷Co-60
-0.347 To 0.083 %

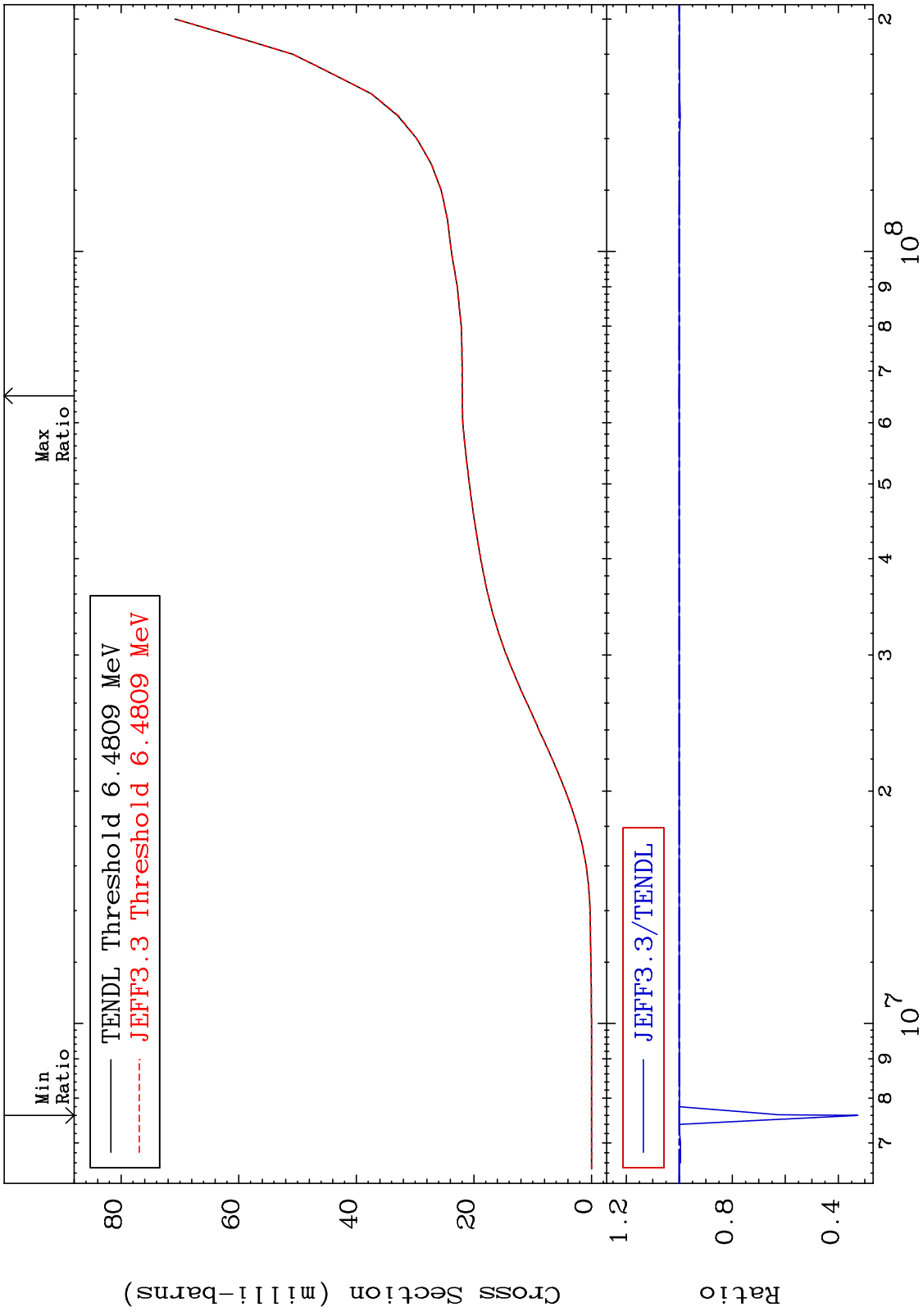


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Incident Energy (eV)

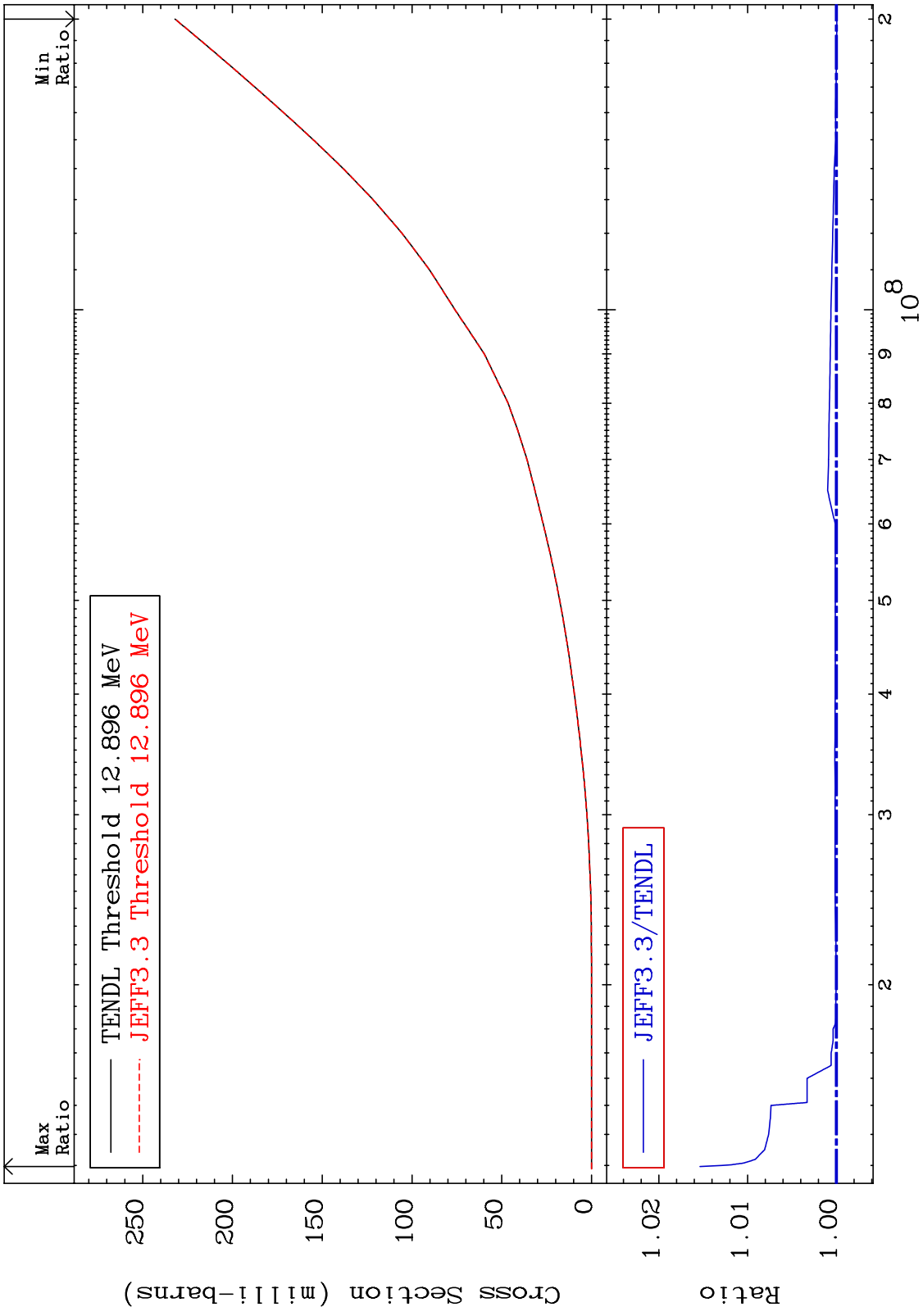
²⁷Co-60

MAT 2728 Tritium Production Cross Section 27-Co-60
 -67.35 To 0.087 %

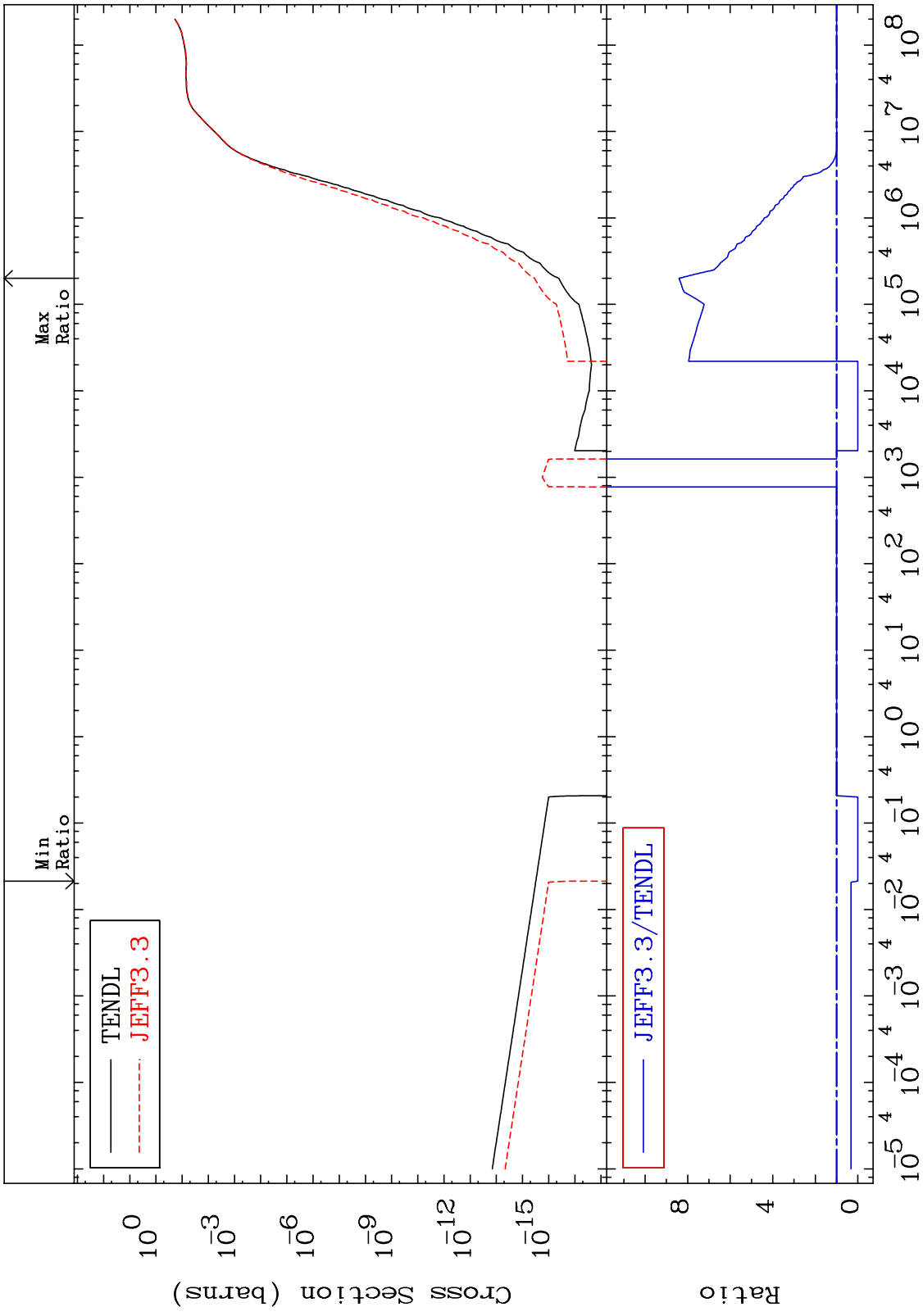


63 27-Co-60

MAT 2728 He-3 Production Cross Section 27-Co-60
 -0.006 To 1.535 %

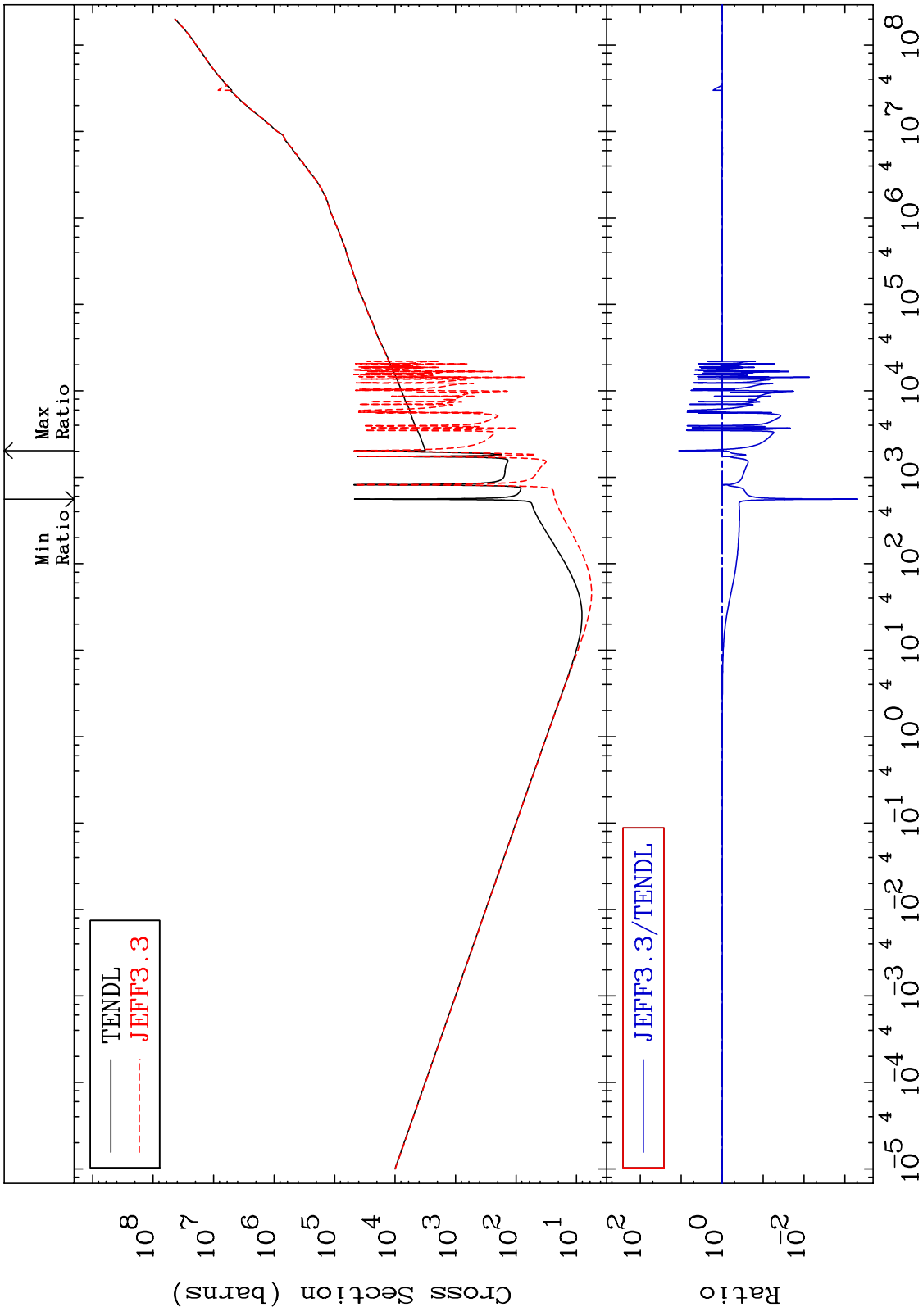


MAT 2728 He-4 Production Cross Section 27-Co-60
 -100.0 To 740.3 %



65 27-Co-60

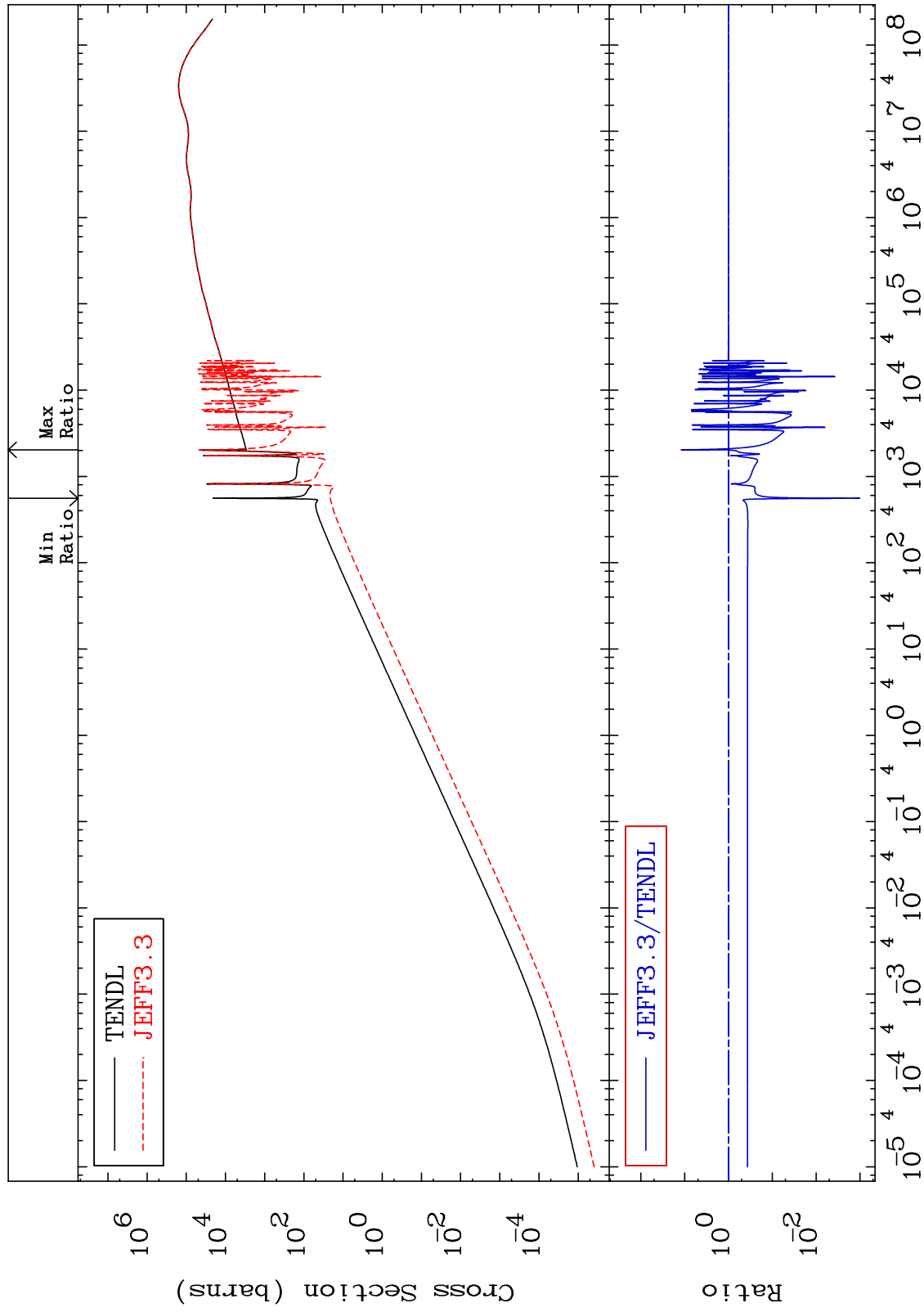
MAT 2728 Kerma total (eV-barns) 27-Co-60
 Cross Section -99.95 To 1033. %



MAT 2728

Kerma elastic
Cross Section

27-Co-60
-99.90 To 1084. %

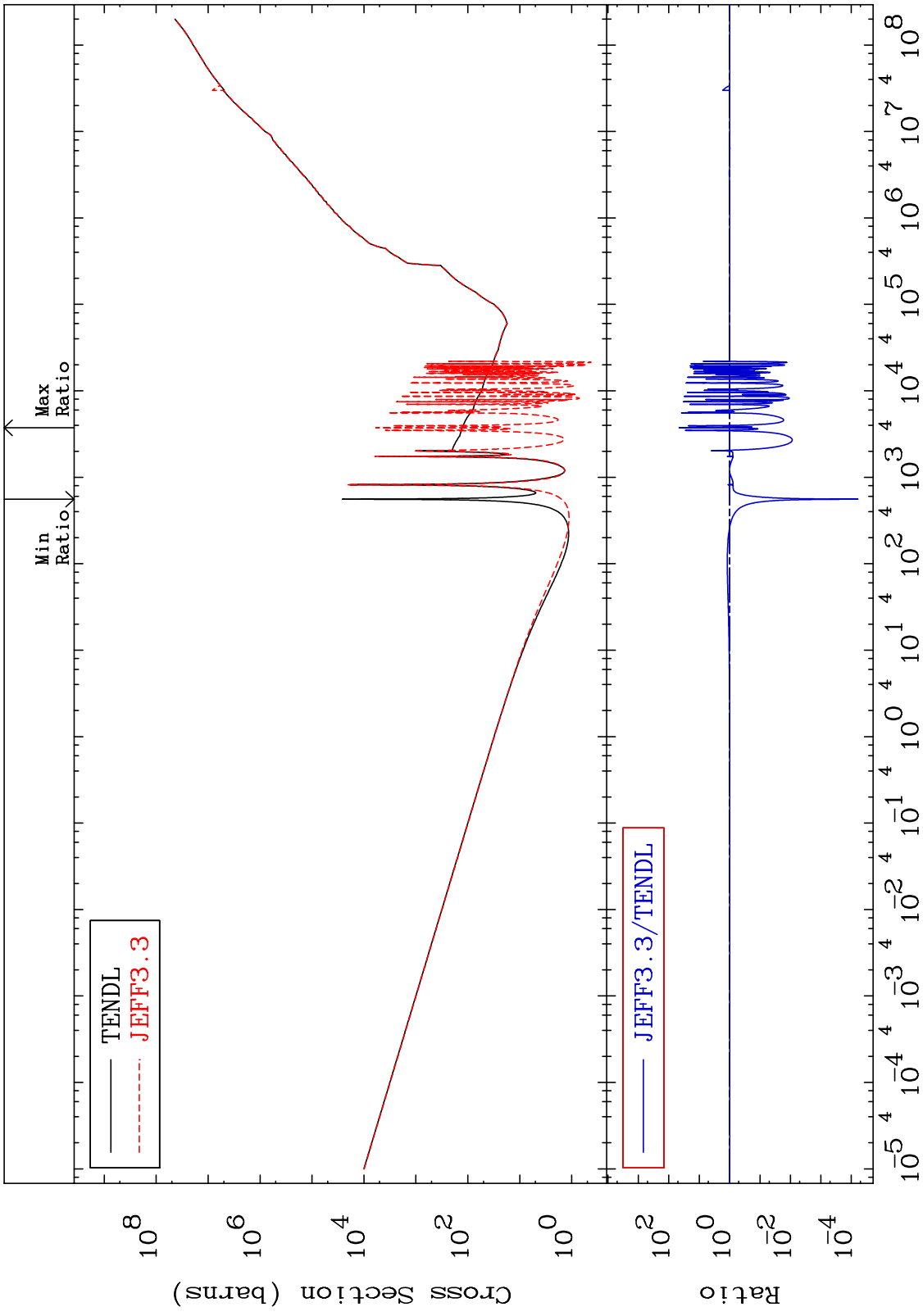


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Incident Energy (eV)

27-Co-60

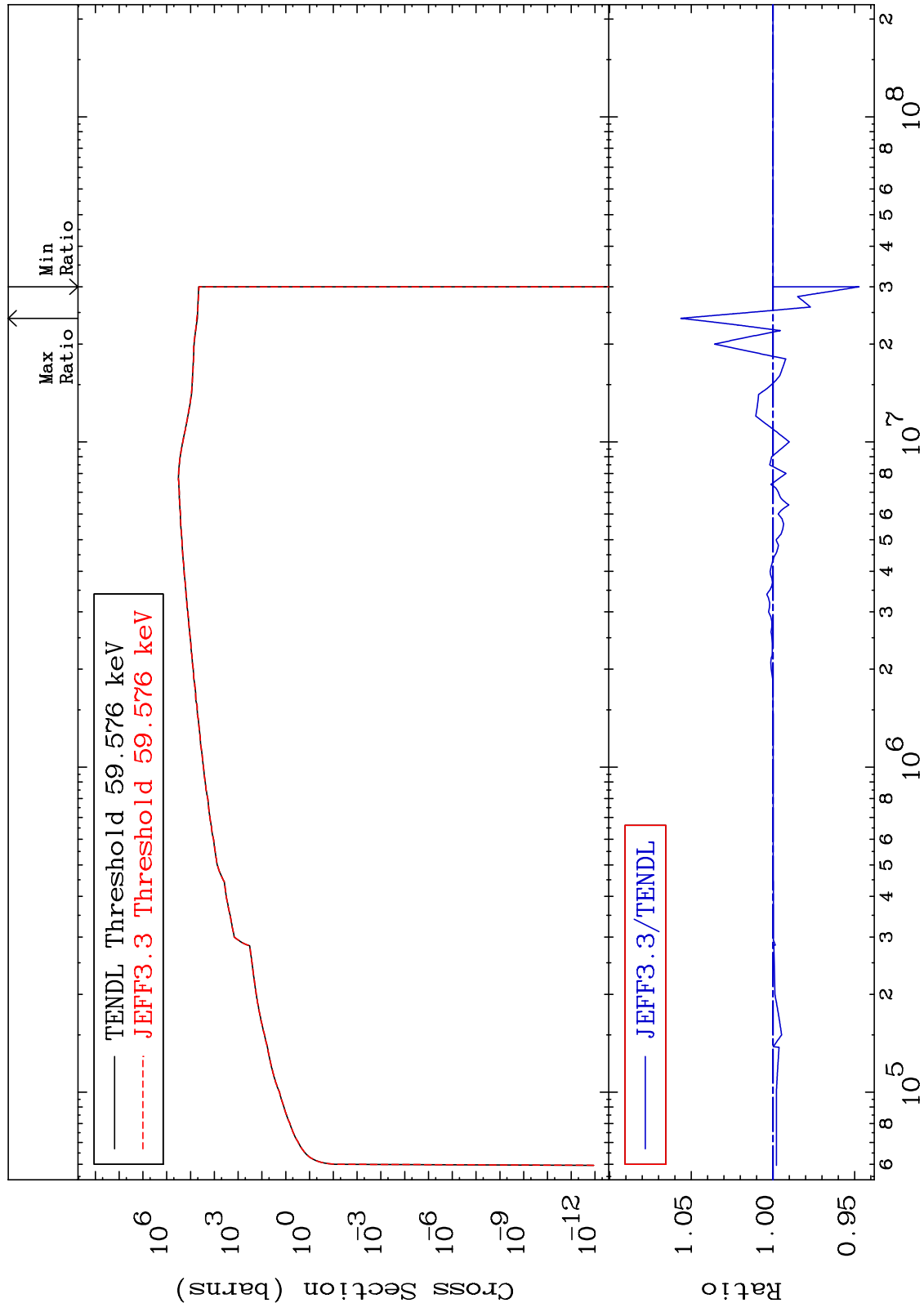
MAT 2728 Kerma non-elastic (all but mt.2) 27-Co-60
 -99.99 To 4502. %
 Cross Section



MAT 2728

Kerma inelastic (mt51-91)
Cross Section

27-Co-60
-5.276 To 5.639 %



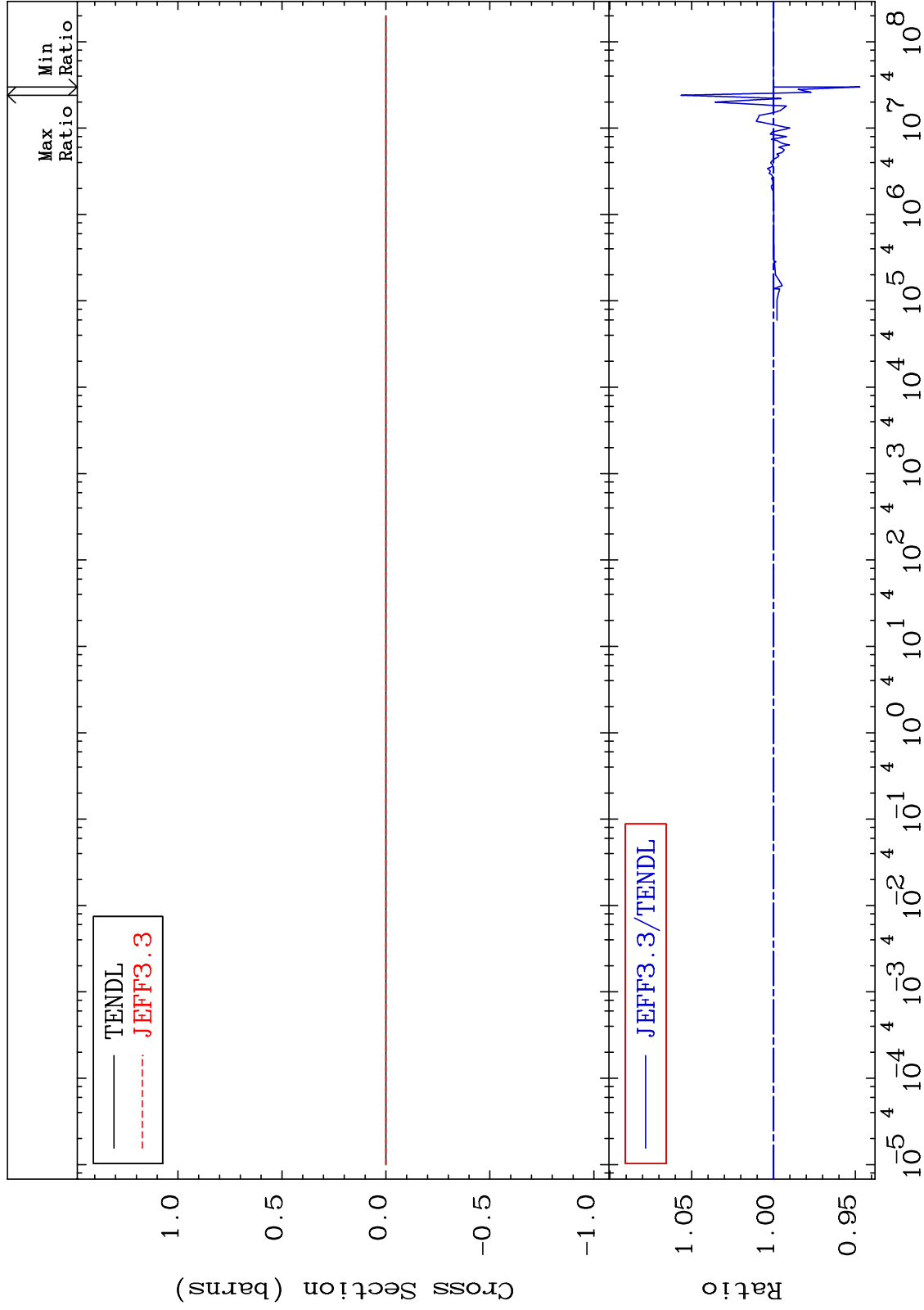
69

27-Co-60

MAT 2728

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

27-Co-60
-5.276 To 5.639 %

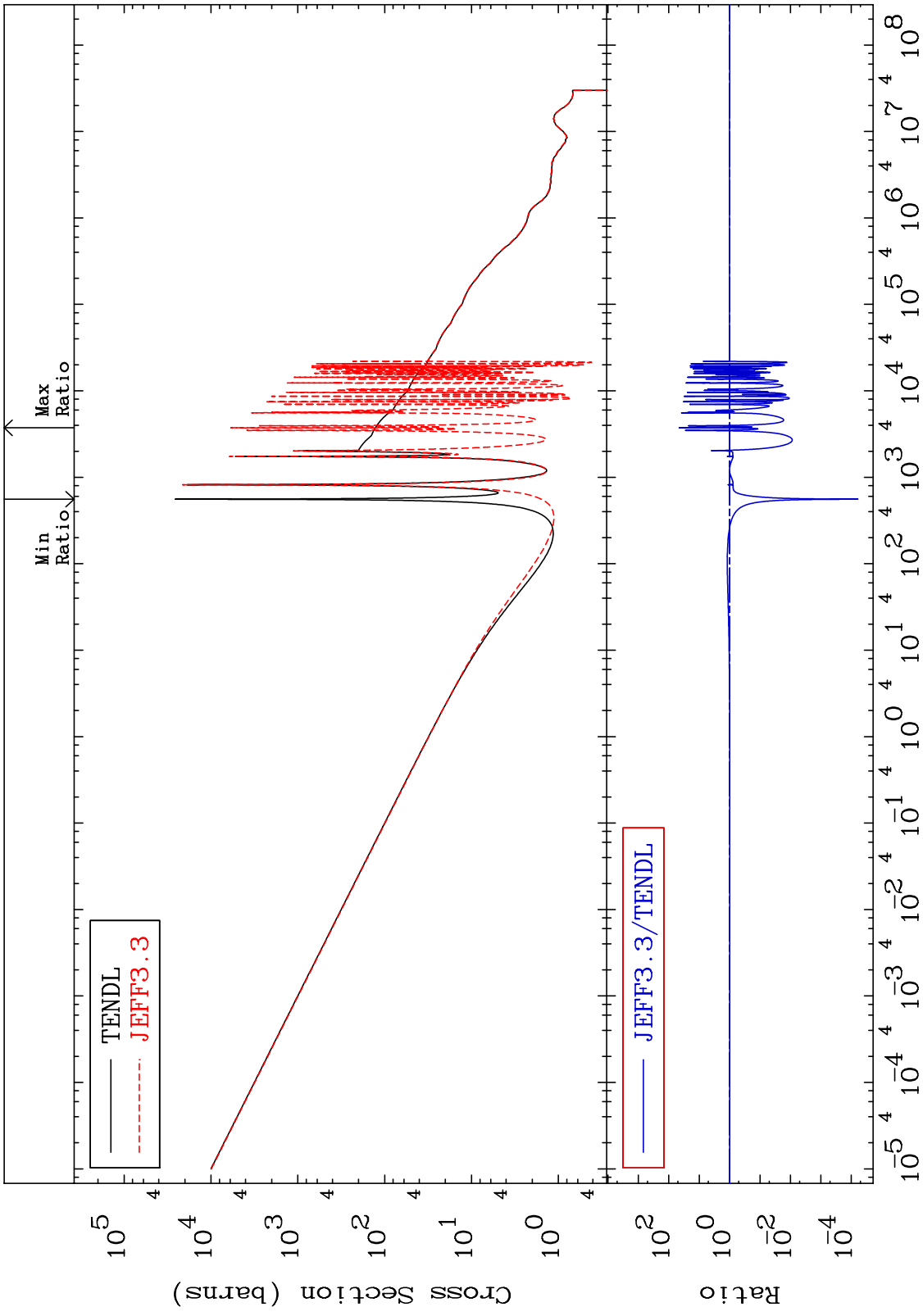


70

Incident Energy (eV)

27-Co-60

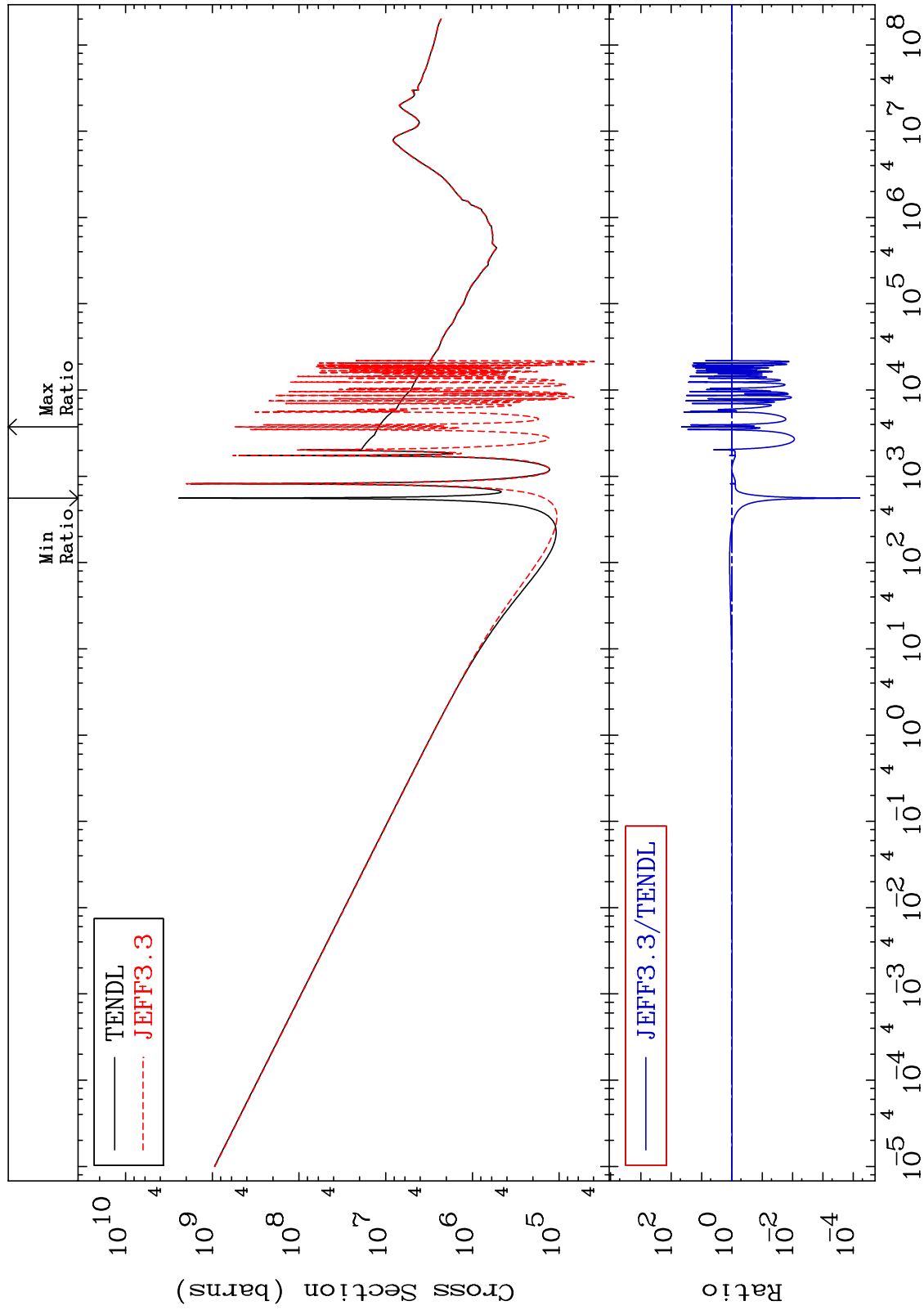
MAT 2728 Kerma capture (mt102) 27-Co-60
 -99.99 To 4502. %



MAT 2728

Total photon (eV-barns)
Cross Section

27-Co-60
-99.99 To 4502. %

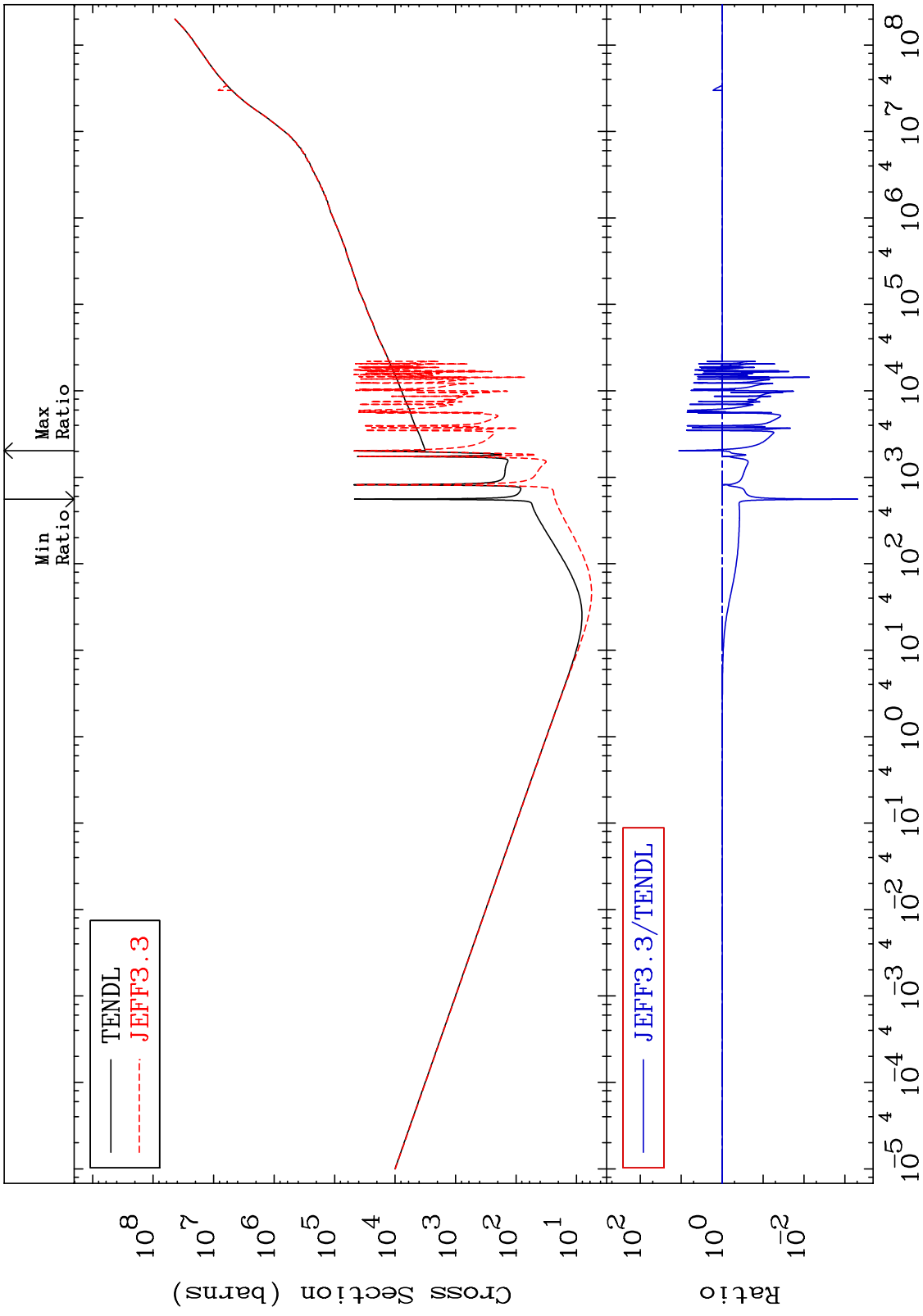


72

Incident Energy (eV)

27-Co-60

MAT 2728 Total kinematic kerma (high limit) 27-Co-60
 -99.95 To 1033. %
 Cross Section

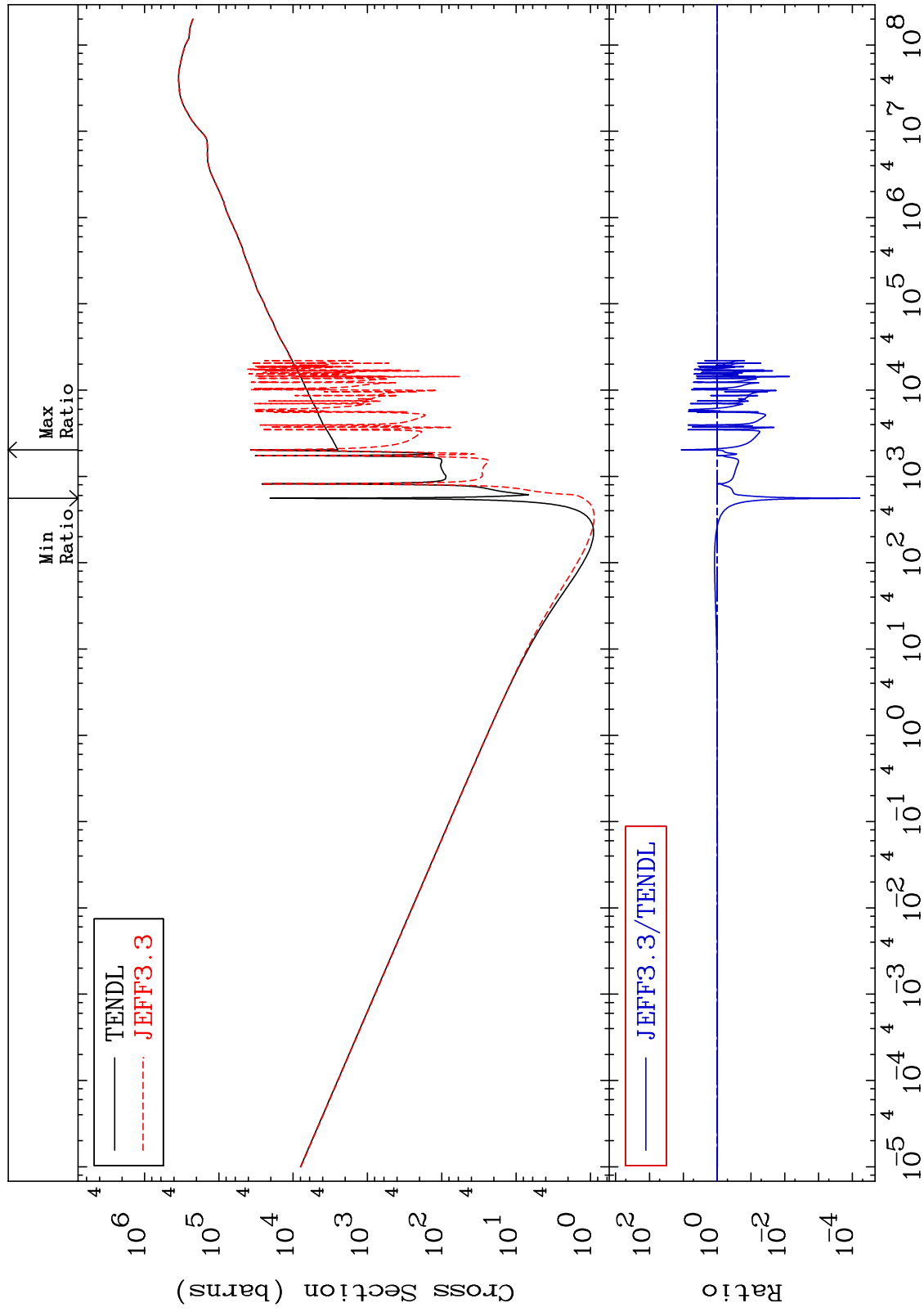


73 Incident Energy (eV) 27-Co-60

MAT 2728

Dpa total (eV-barns)
Cross Section

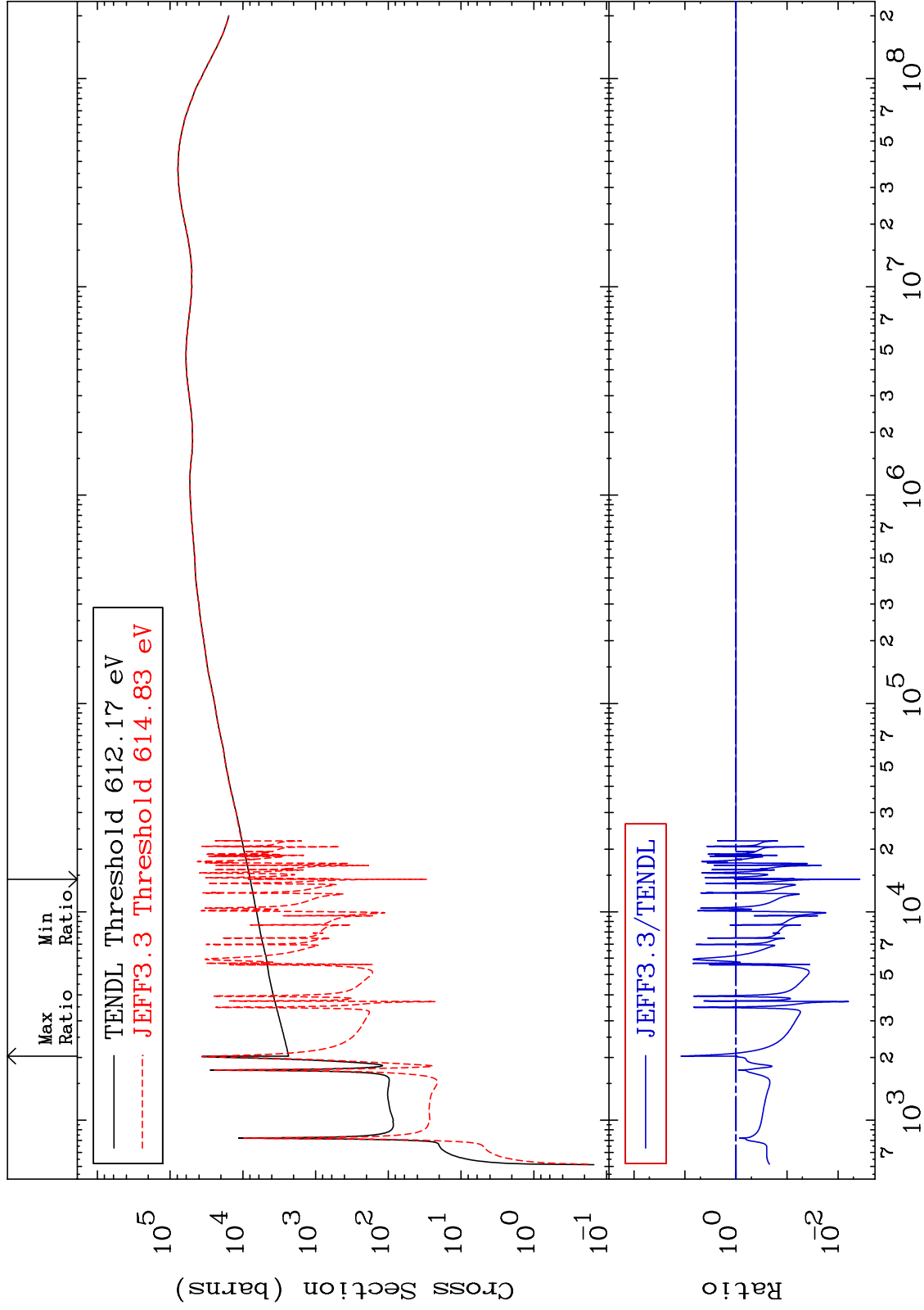
27-Co-60
-99.99 To 1033. %



MAT 2728

Dpa elastic (mt2)
Cross Section

27-Co-60
-99.62 To 1084. %



75

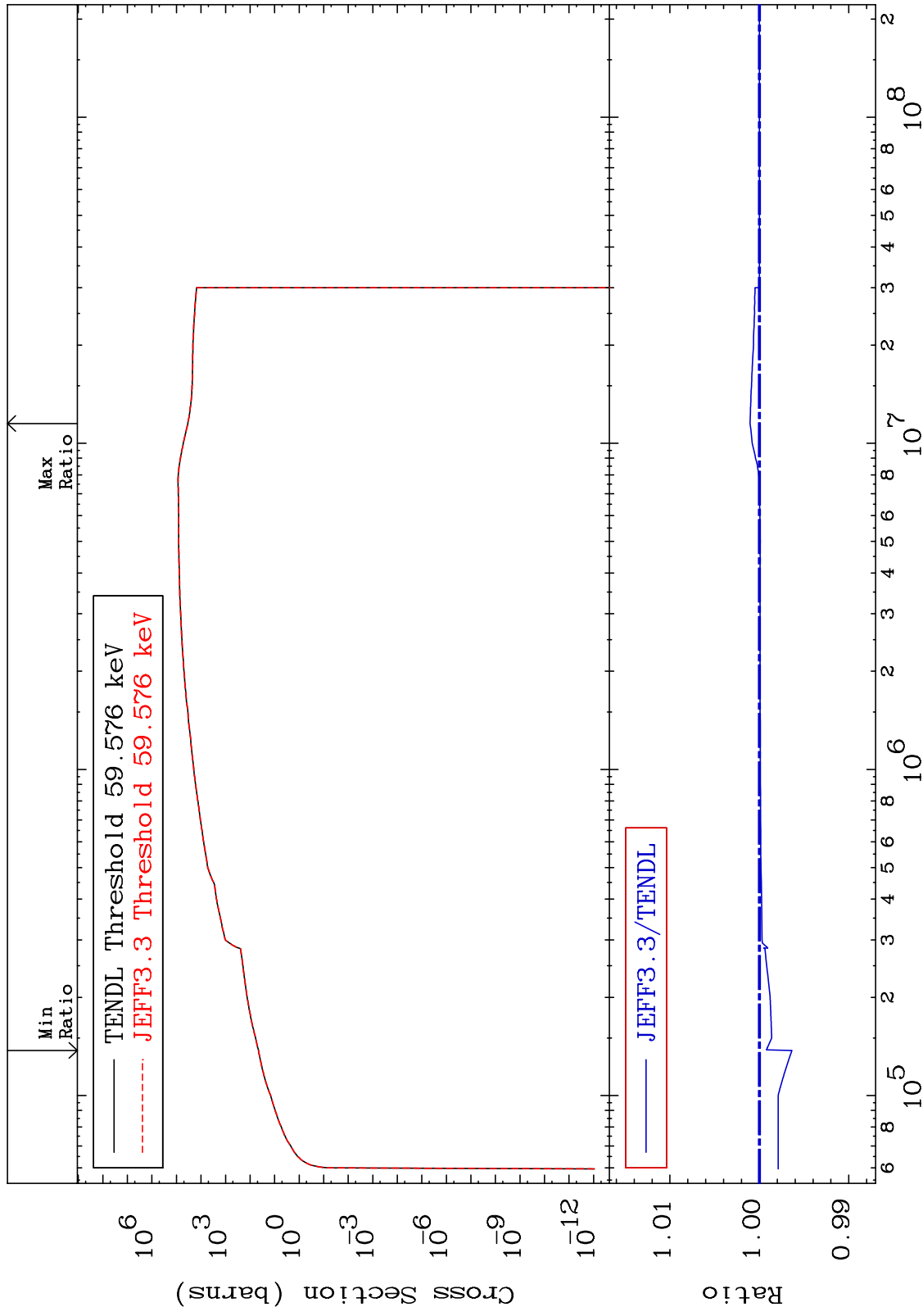
27-Co-60

27-Co-60

MAT 2728

Dpa inelastic (mt51-91)
Cross Section

27-Co-60
-0.364 To 0.104 %



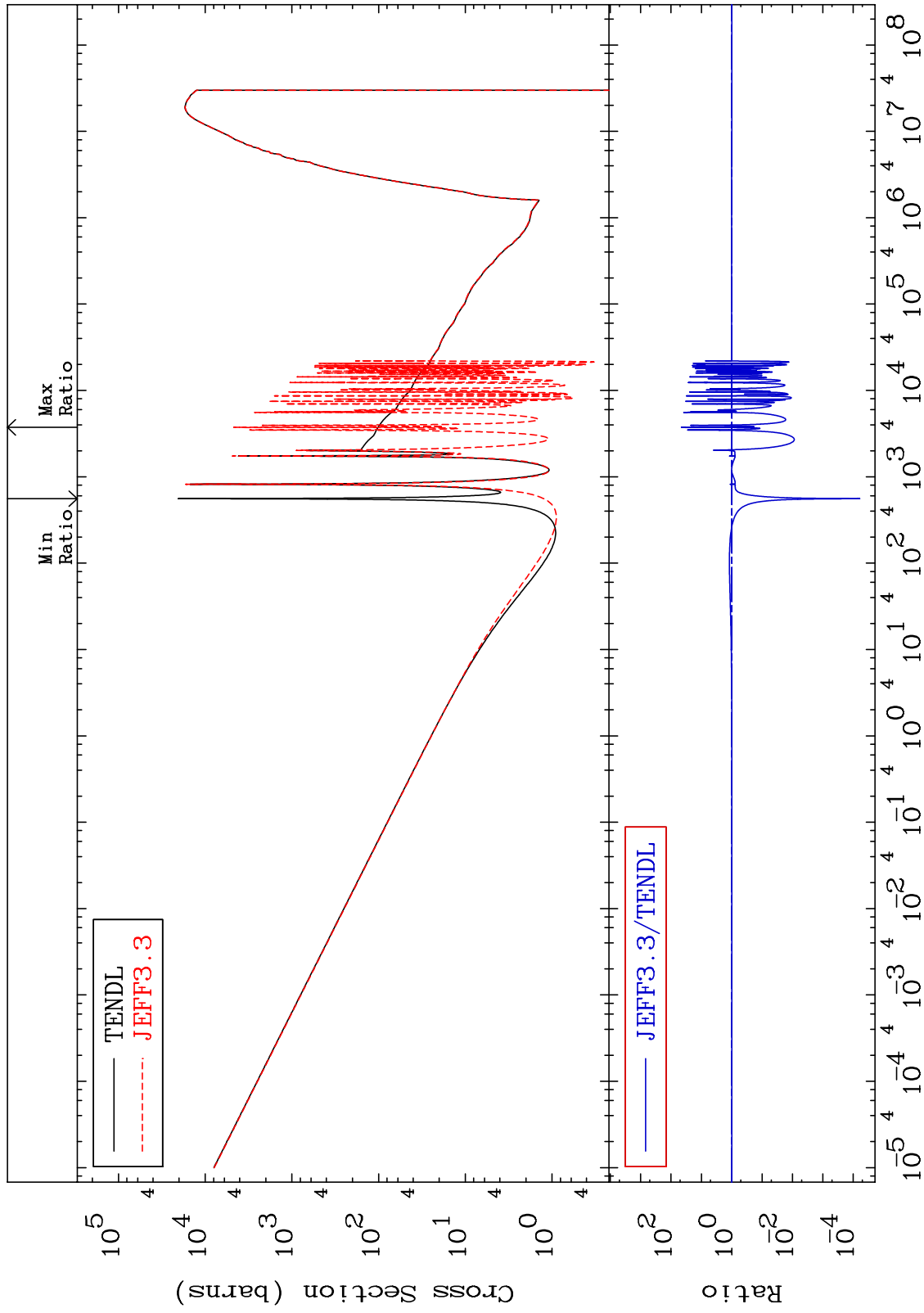
76

27-Co-60

MAT 2728

Dpa disappearance (mt102 -120)
Cross Section

27-Co-60
-99.99 To 4502. %



77

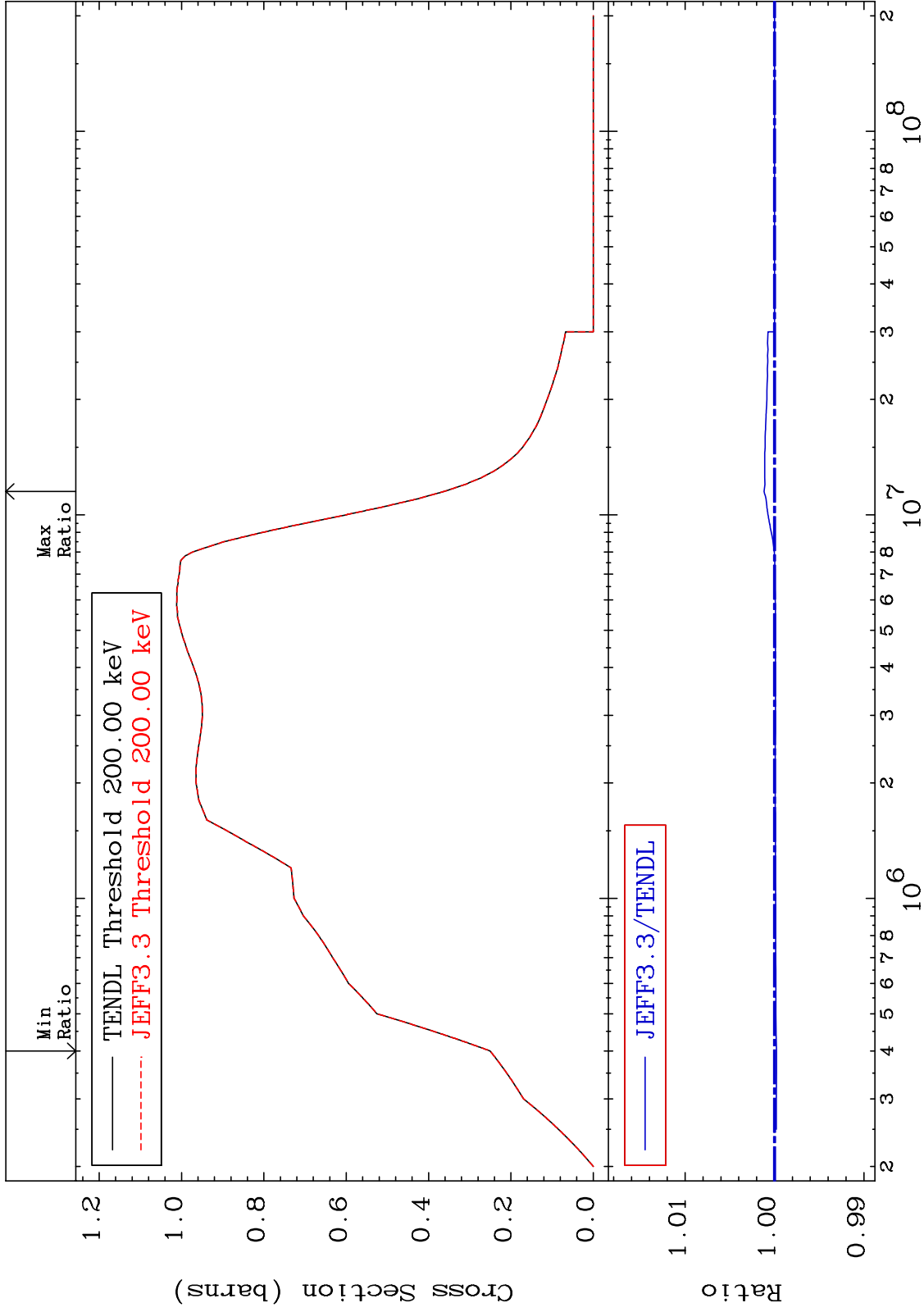
Incident Energy (eV)

27-Co-60

MAT 2728

Inelastic: 27-Co-60
Radionuclide Production Cross Section -0.022 To 0.118 %

27-Co-60



78

Incident Energy (eV)

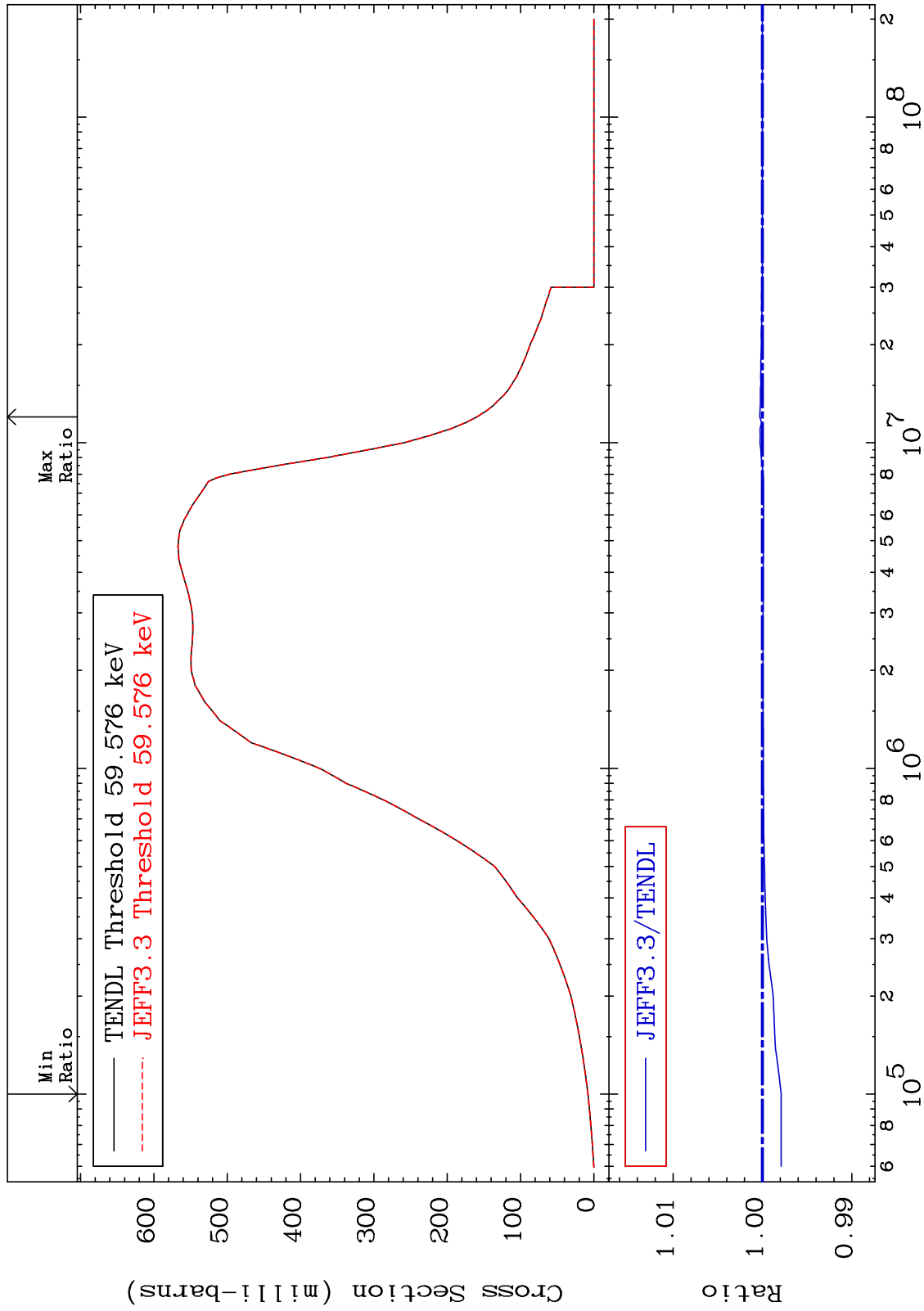
27-Co-60

MAT 2728

Inelastic:27-Co-60m1

27-Co-60

Radionuclide Production Cross Section -0.210 To 0.029 %

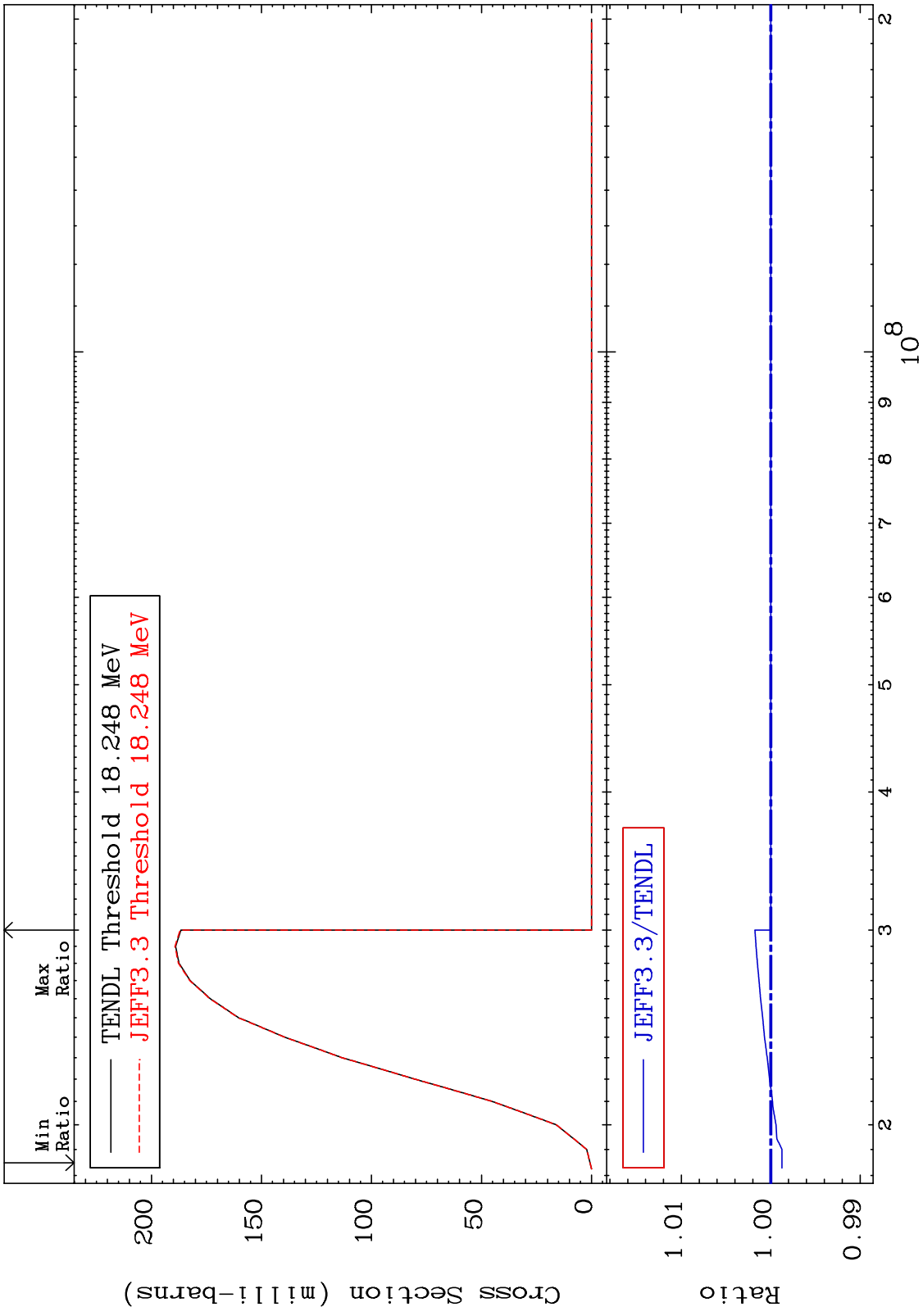


79

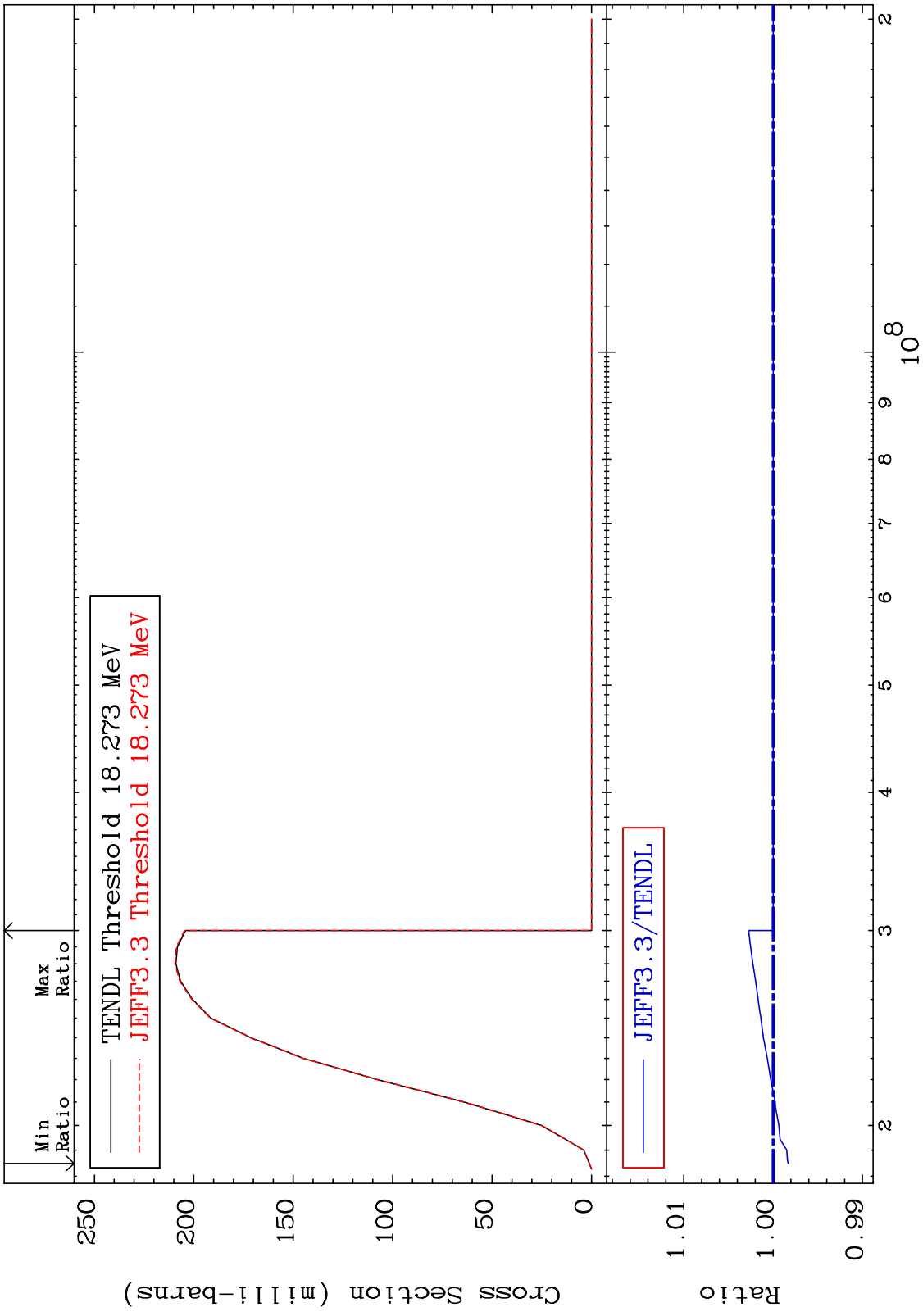
Incident Energy (eV)

27-Co-60

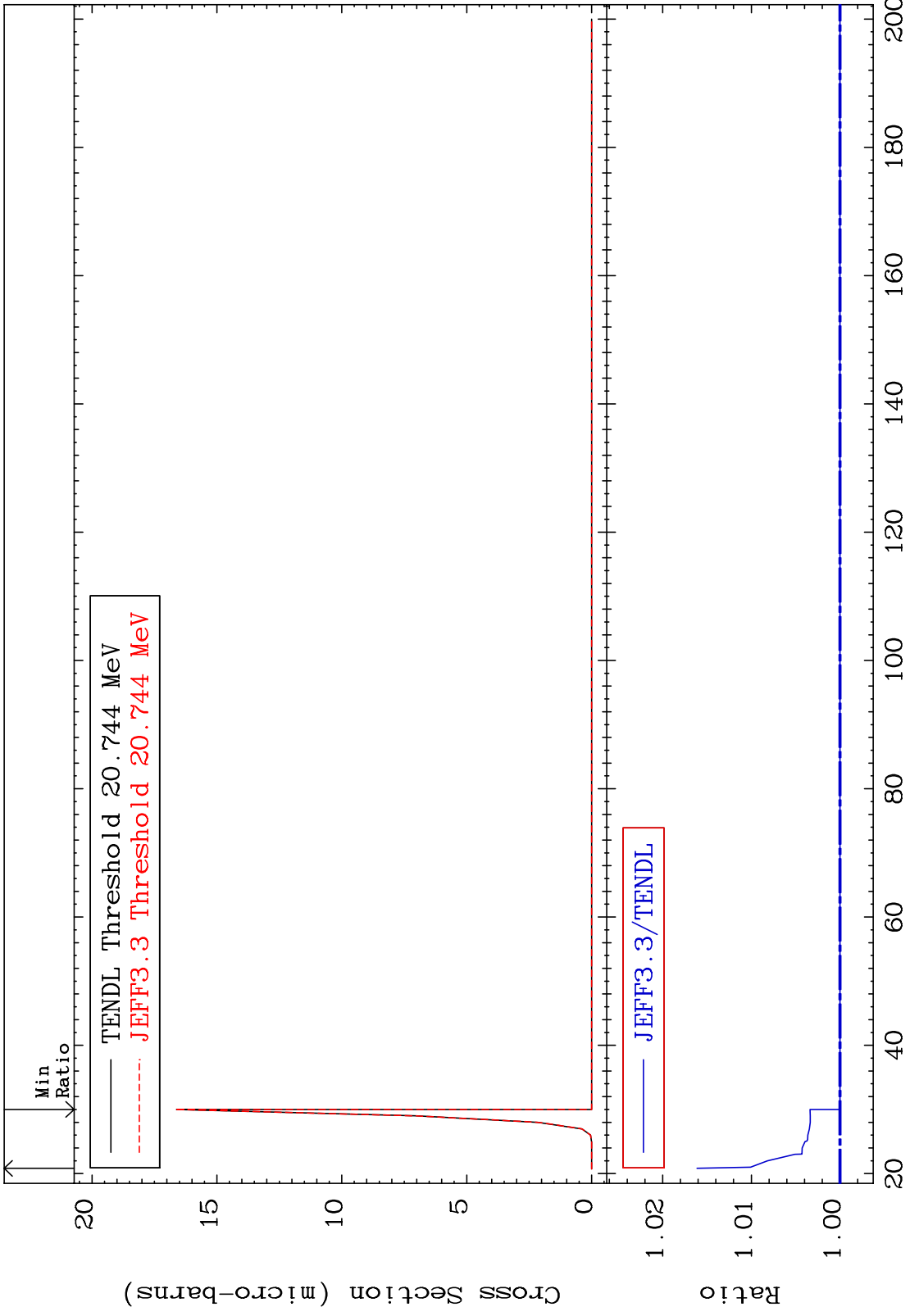
MAT 2728 (n,3n):27-Co-58g 27-Co-60
 Radionuclide Production Cross Section -0.126 To 0.177 %



MAT 2728 (n,3n):27-Co-58m1 27-Co-60
 Radionuclide Production Cross Section -0.169 To 0.274 %



MAT 2728 (n,2n) p:25-Mn-58g 27-Co-60
Radionuclide Production Cross Section 0.000 To 1.612 %

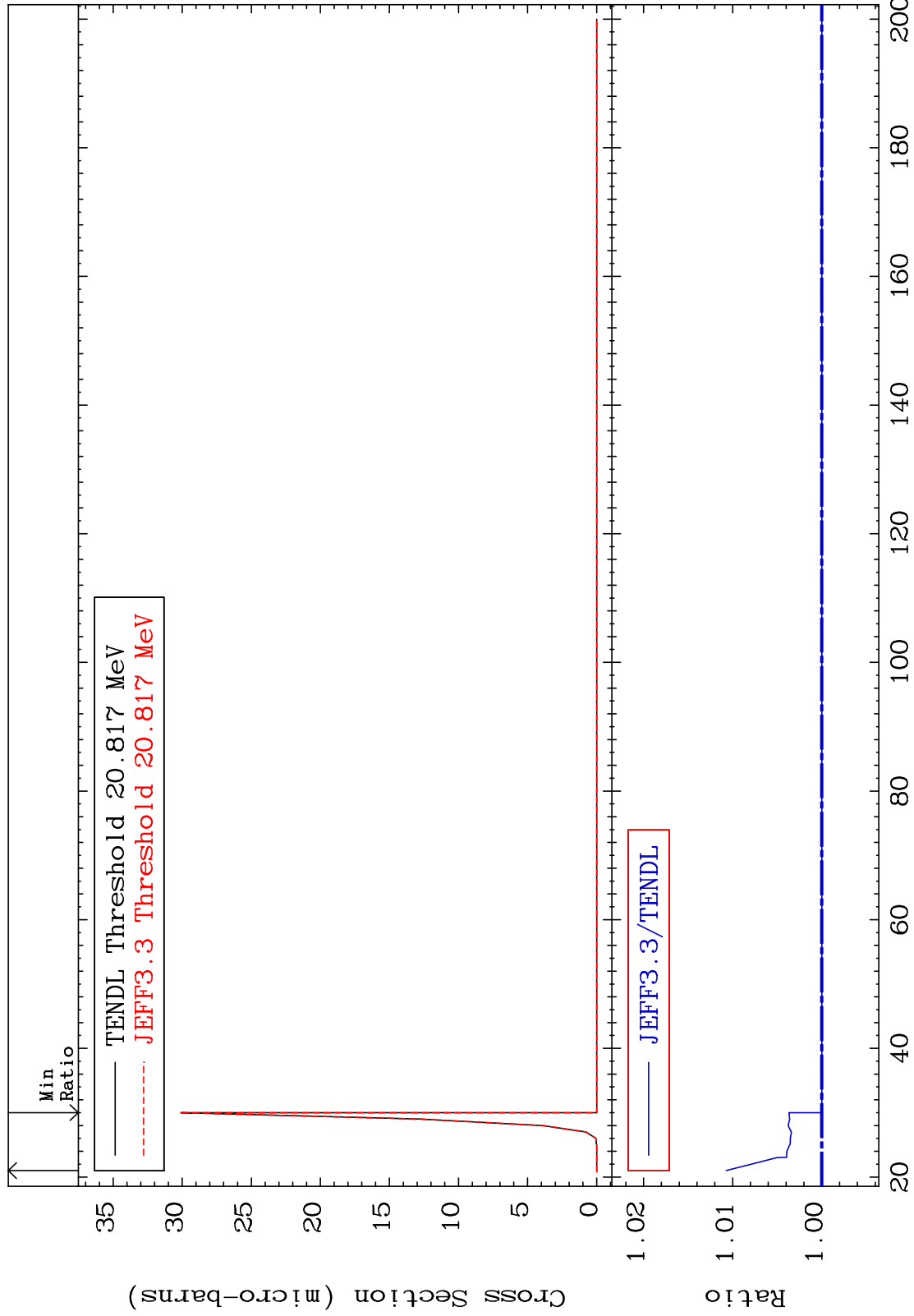


MAT 2728

(n,2n) p:25-Mn-58m1

27-Co-60

Radionuclide Production Cross Section 0.000 To 1.073 %



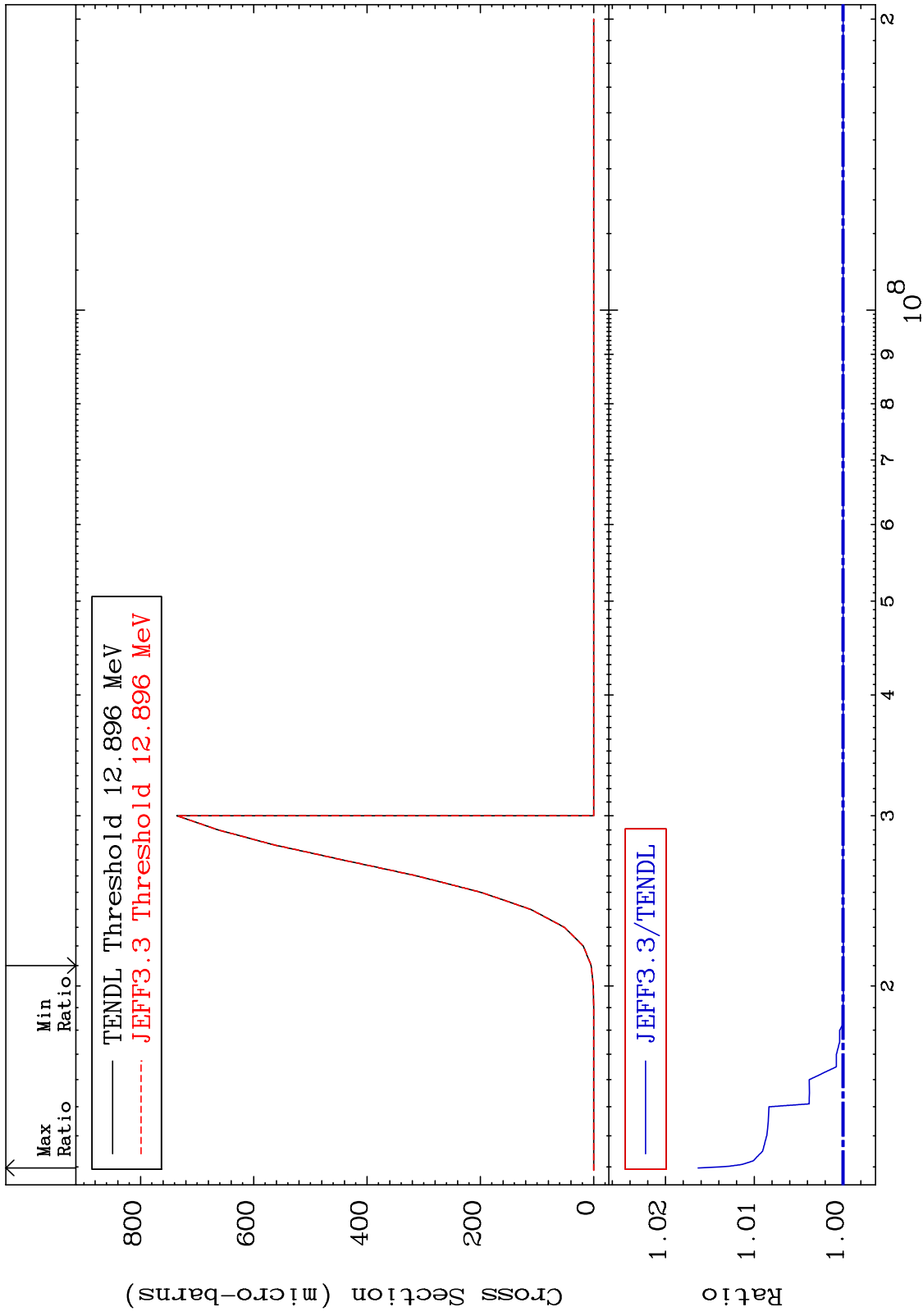
83

Incident Energy (MeV)

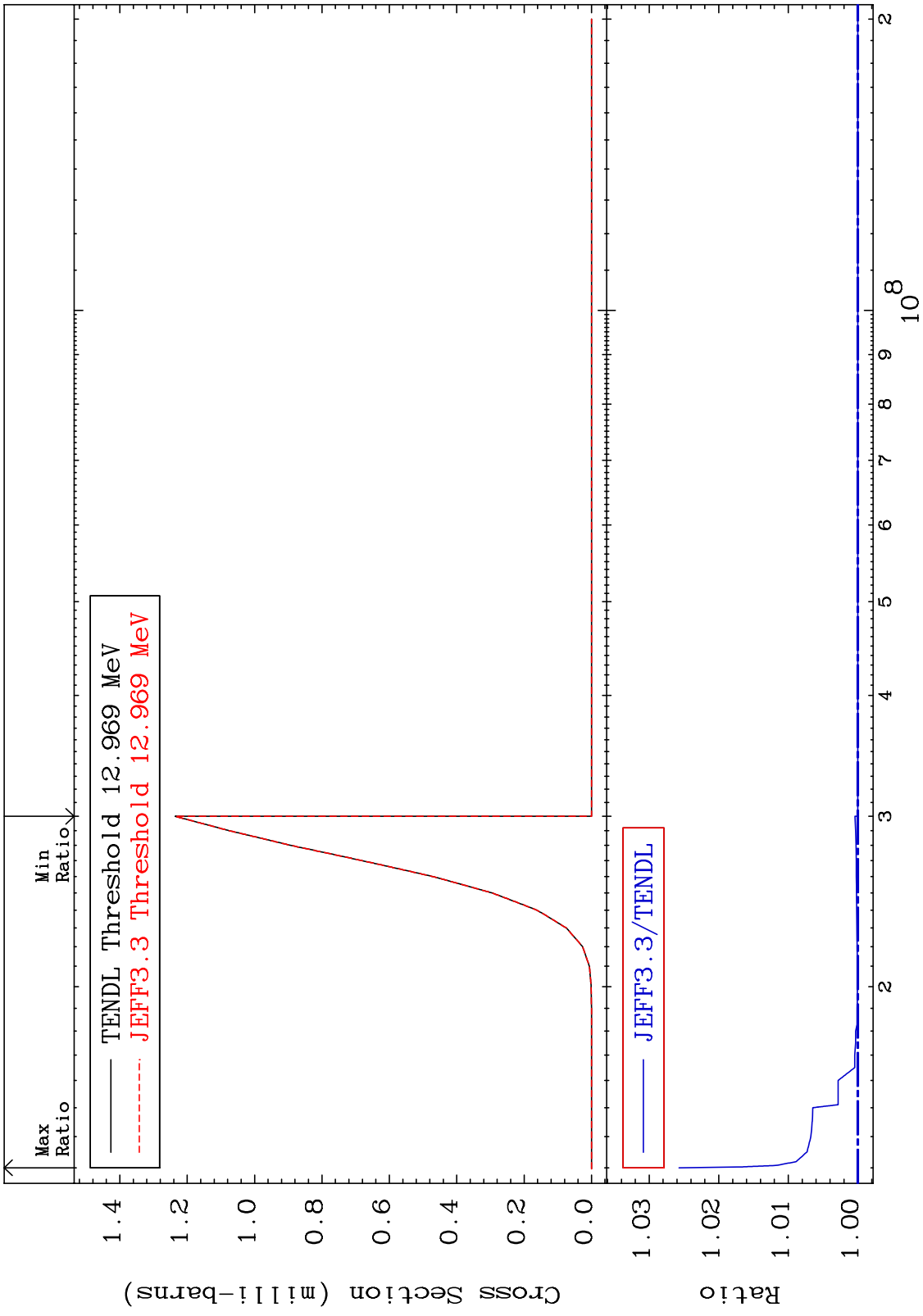
27-Co-60

MAT 2728

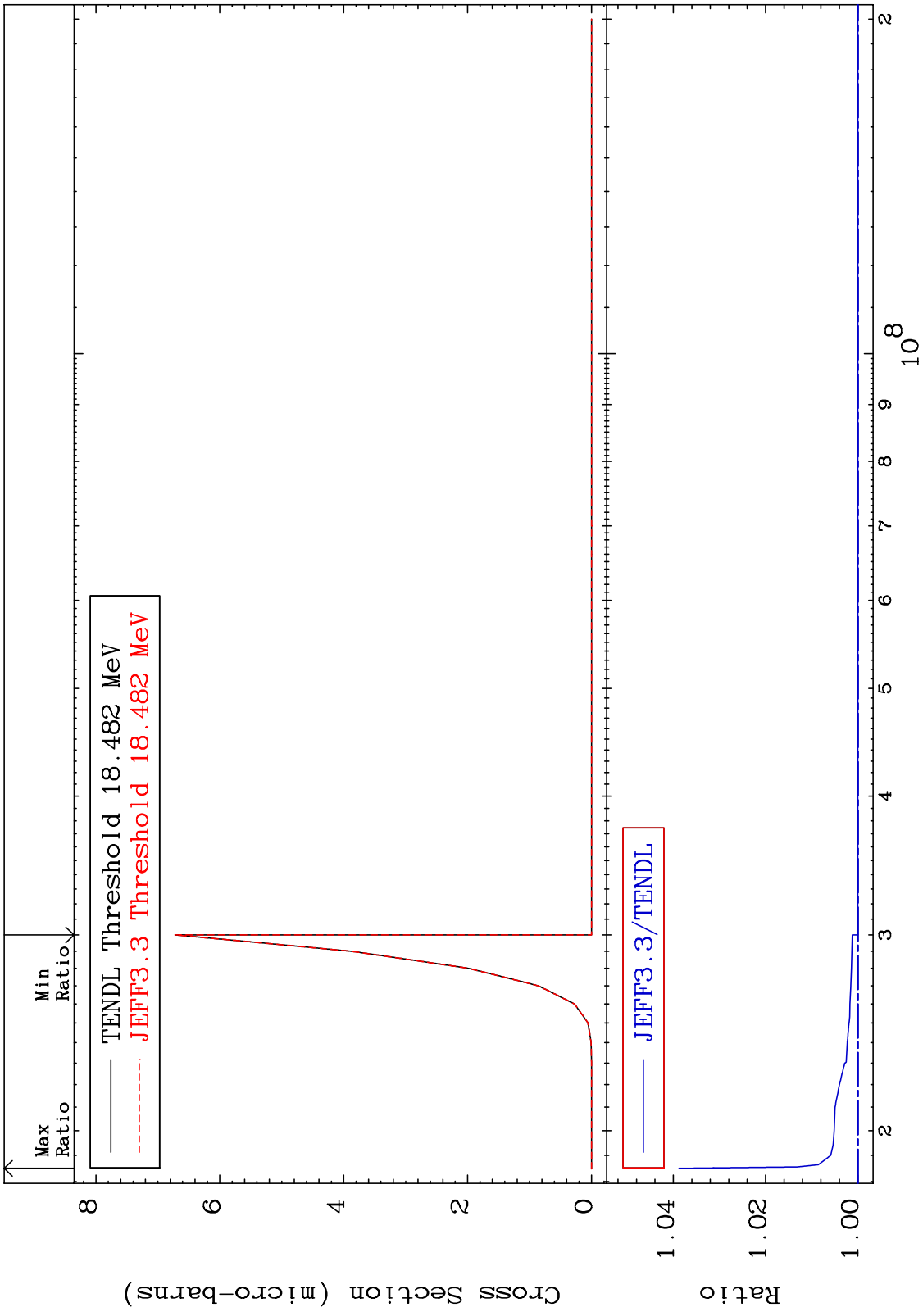
(n,He-3) : 25-Mn-58g 27-Co-60
Radionuclide Production Cross Section -0.005 To 1.634 %



MAT 2728 (n, He-3):25-Mn-58m1 27-Co-60
 Radionuclide Production Cross Section 0.000 To 2.571 %



MAT 2728 (n,p) d:25-Mn-58g 27-Co-60
 Radionuclide Production Cross Section 0.000 To 3.877 %

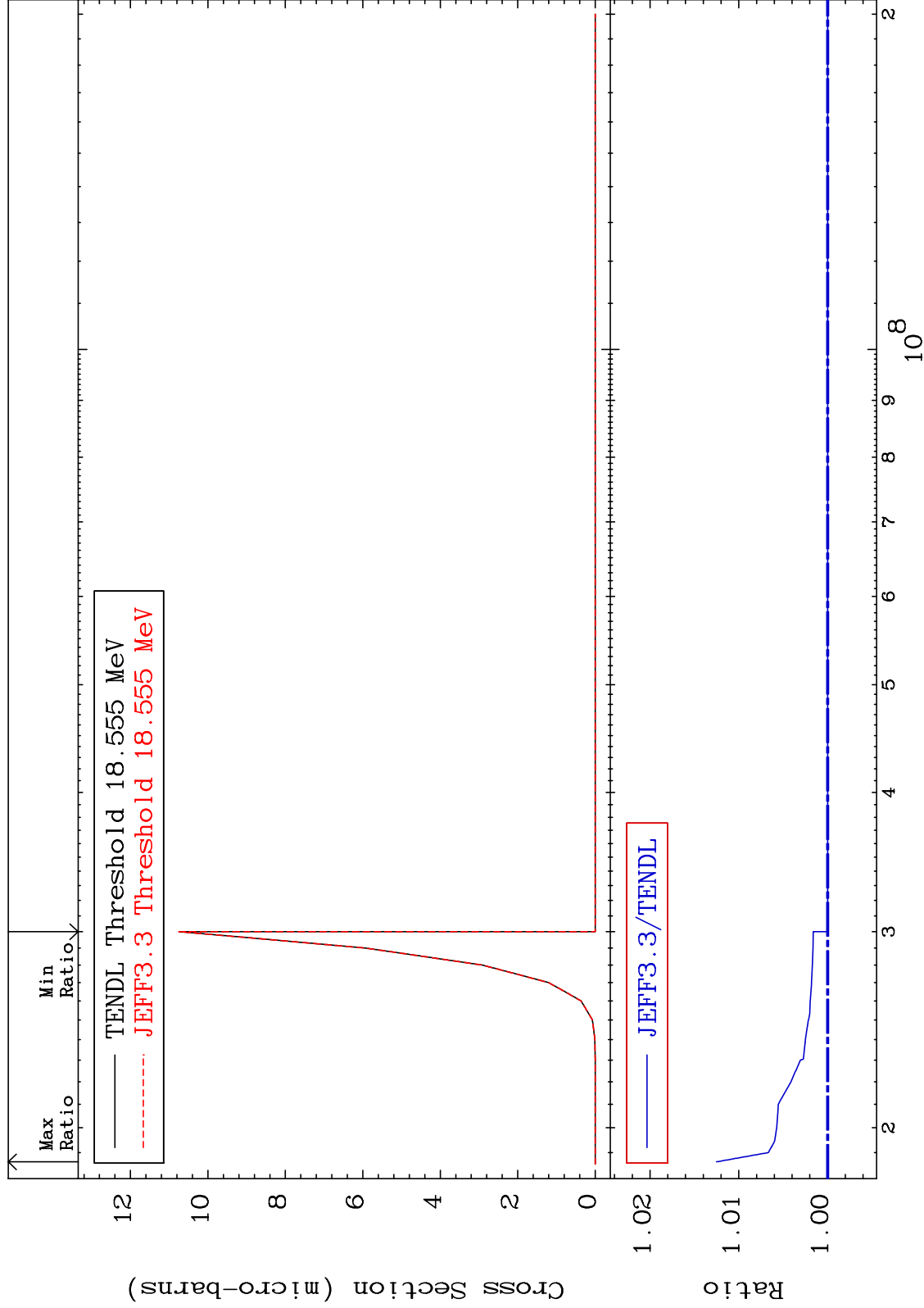


MAT 2728

(n,p) d:25-Mn-58m1

27-Co-60

Radionuclide Production Cross Section 0.000 To 1.252 %



87

Incident Energy (eV)

27-Co-60