

Program Complot
(Version 2018-1)

by

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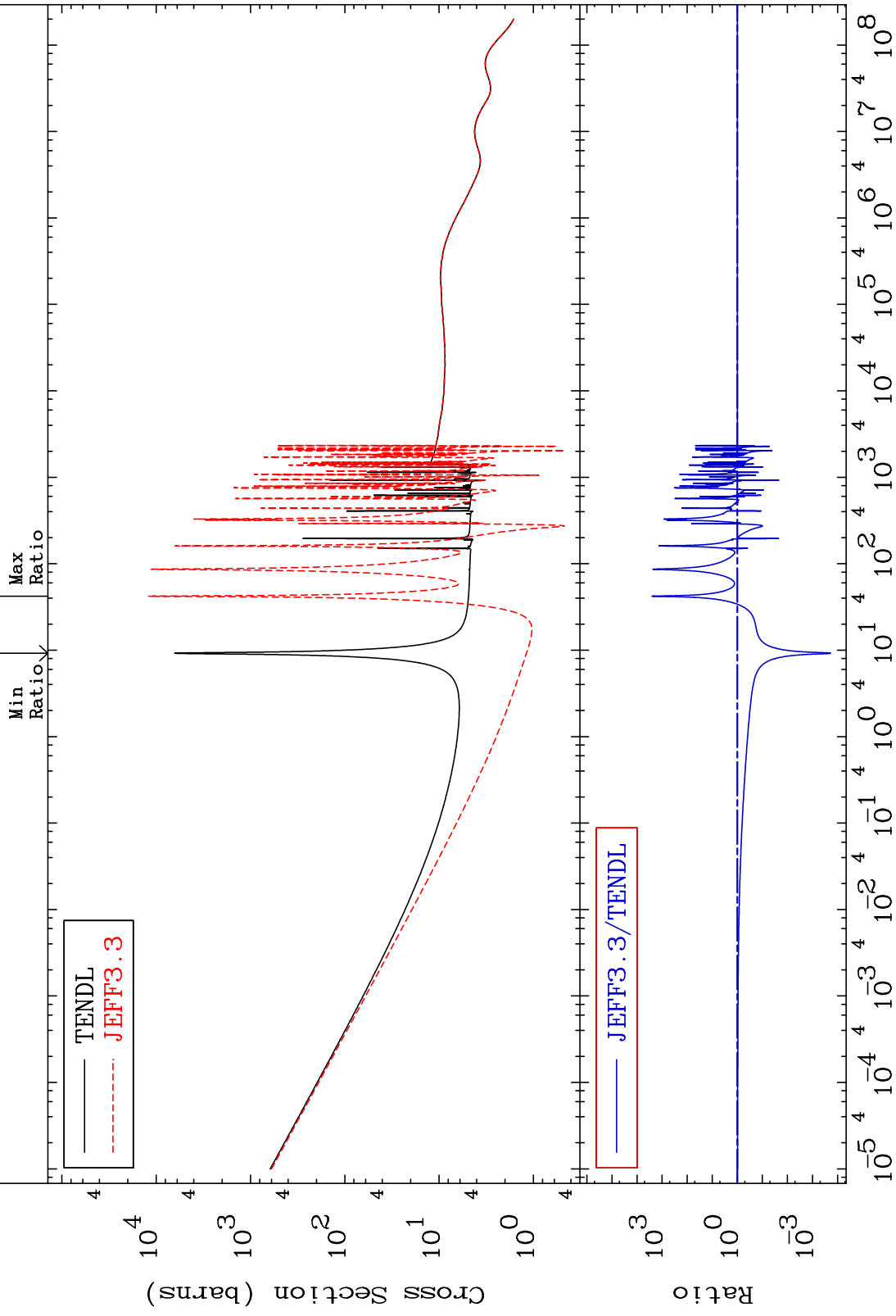
Press Mouse Button to Start

MAT 4122

41-Nb-92

-99.98 To 9999. %

Total
Cross Section



41-Nb-92

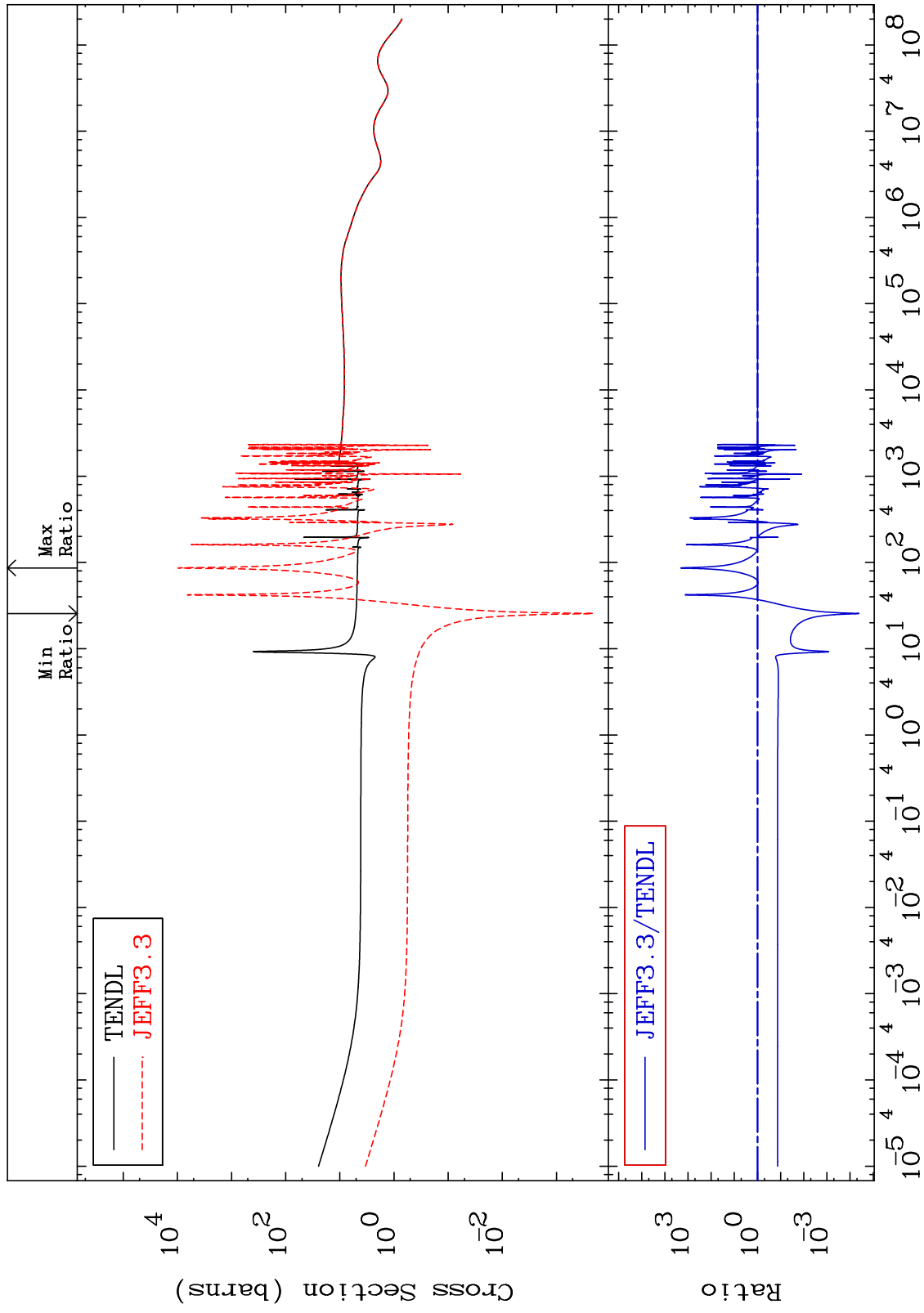
Incident Energy (eV)

1

MAT 4122

Elastic
Cross Section

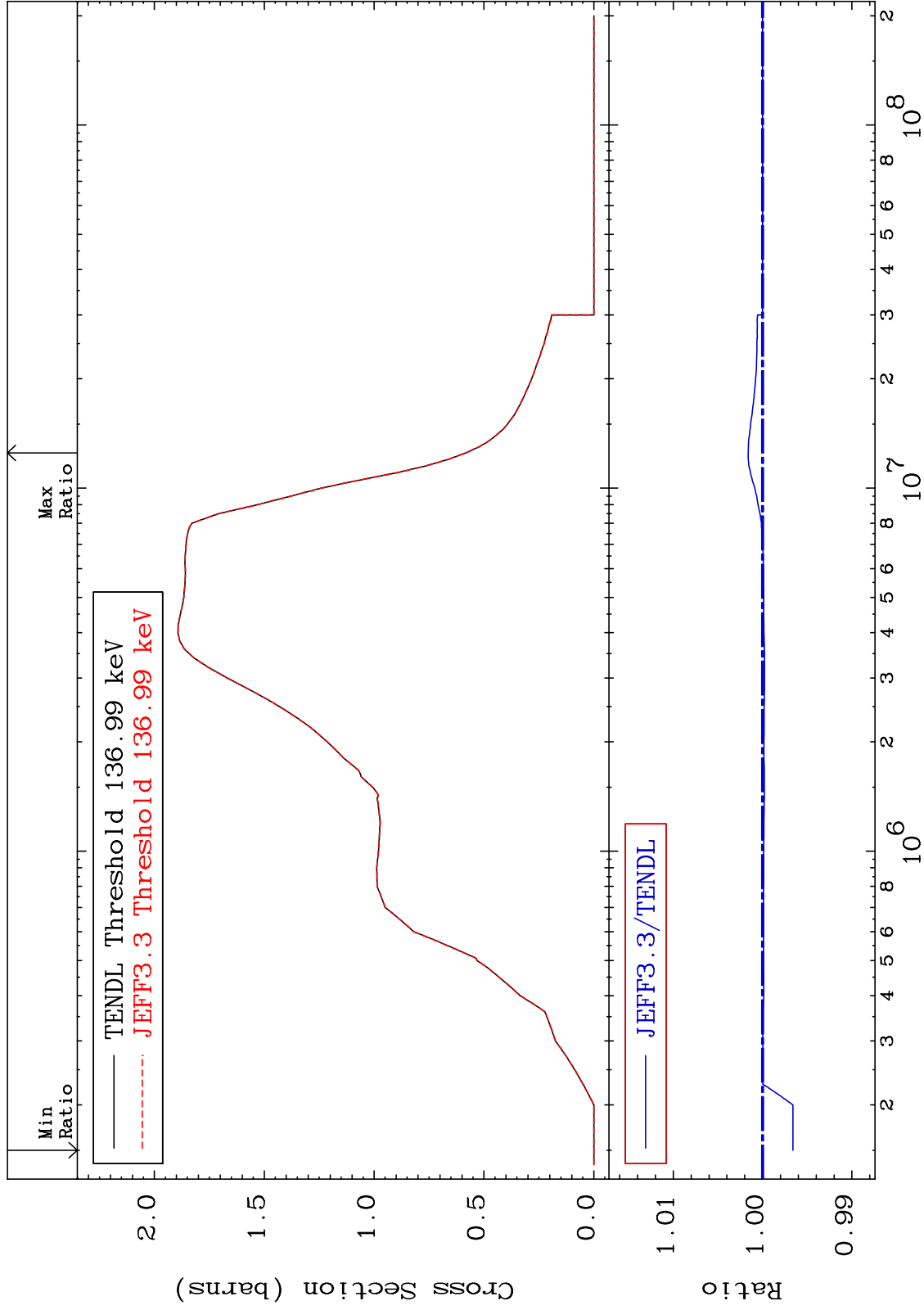
41-Nb-92
-100.0 To 9999. %

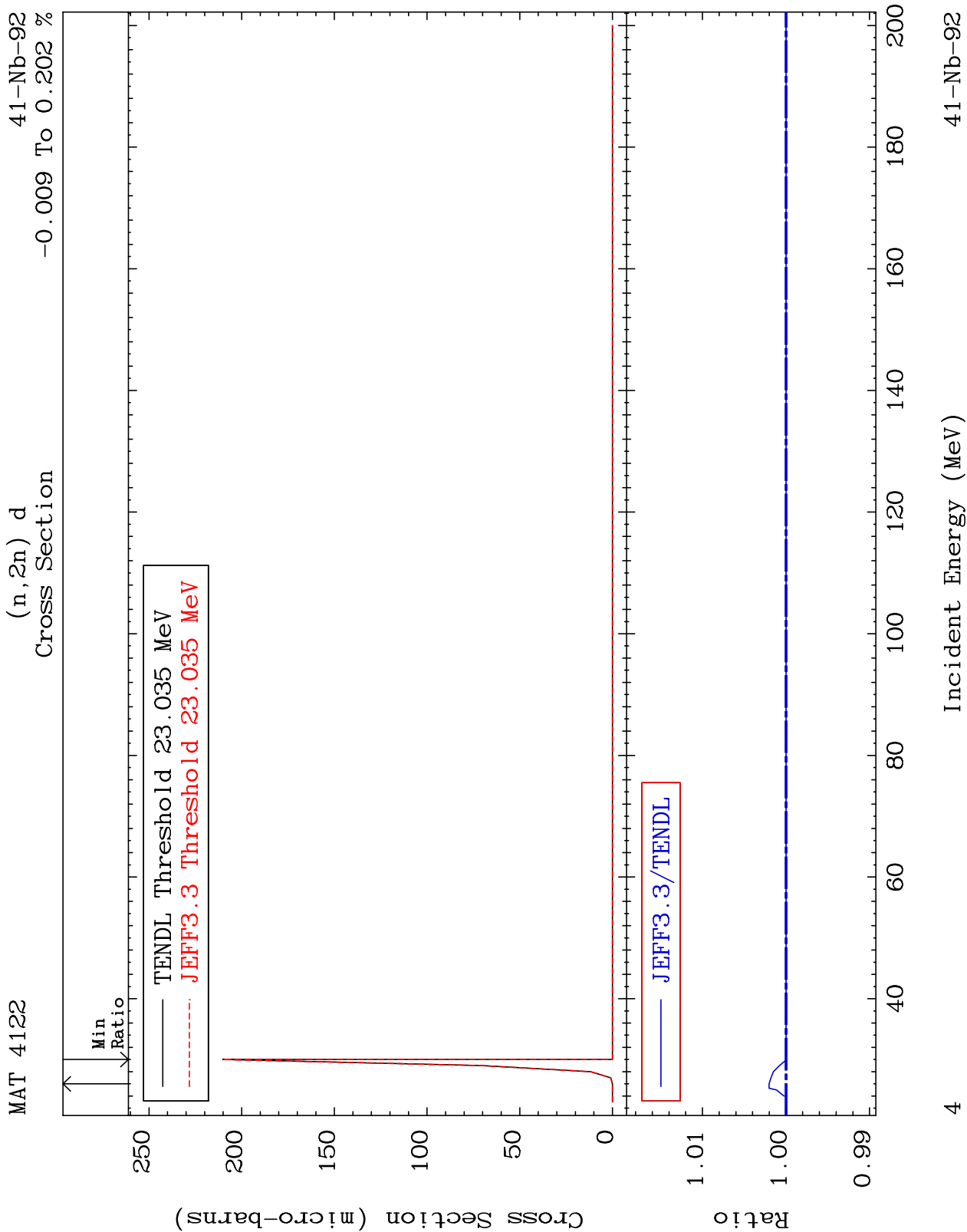


MAT 4122

Inelastic
Cross Section

41-Nb-92
-0.338 To 0.161 %





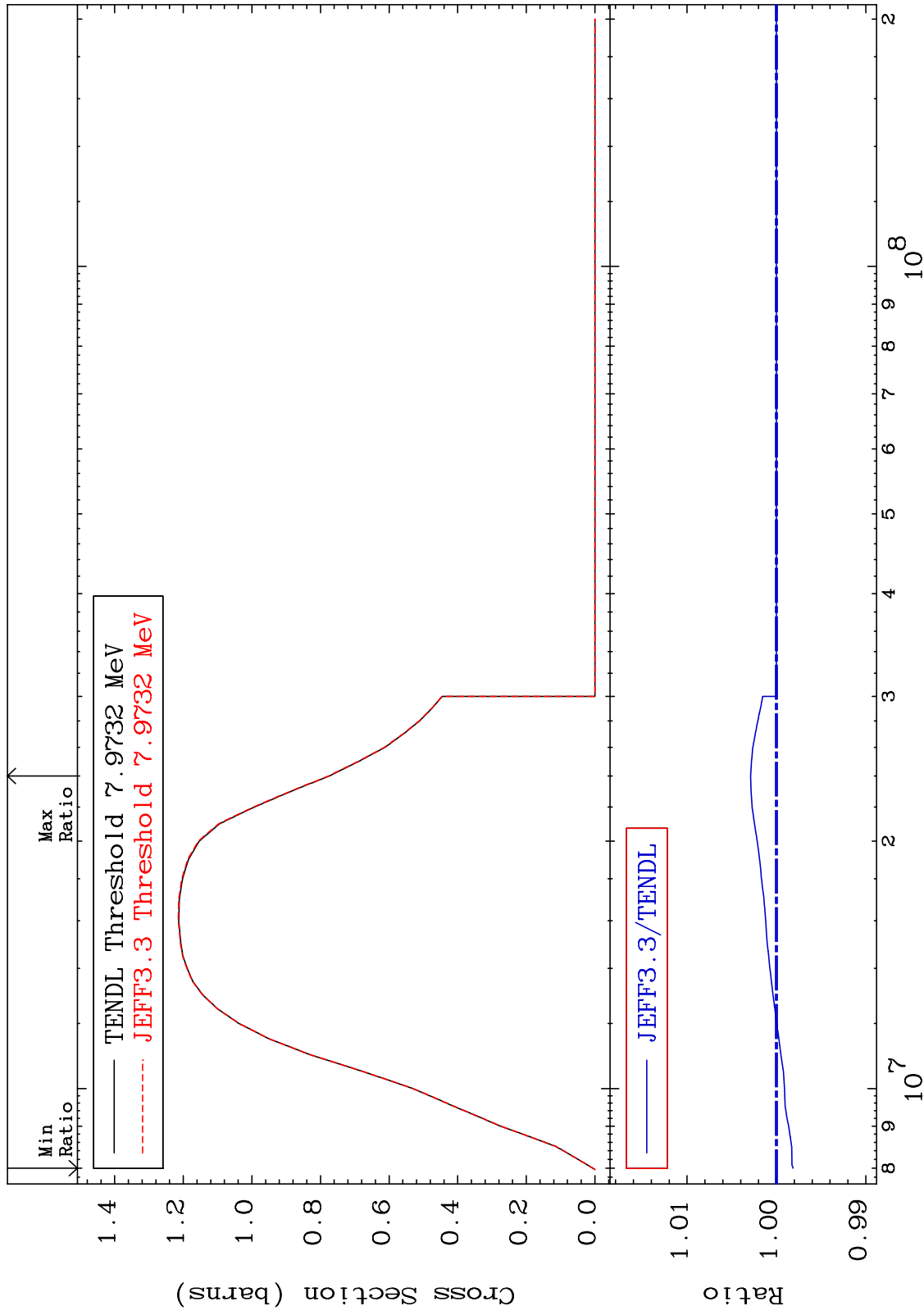
MAT 4122

(n,2n)

41-Nb-92

Cross Section

-0.186 To 0.288 %

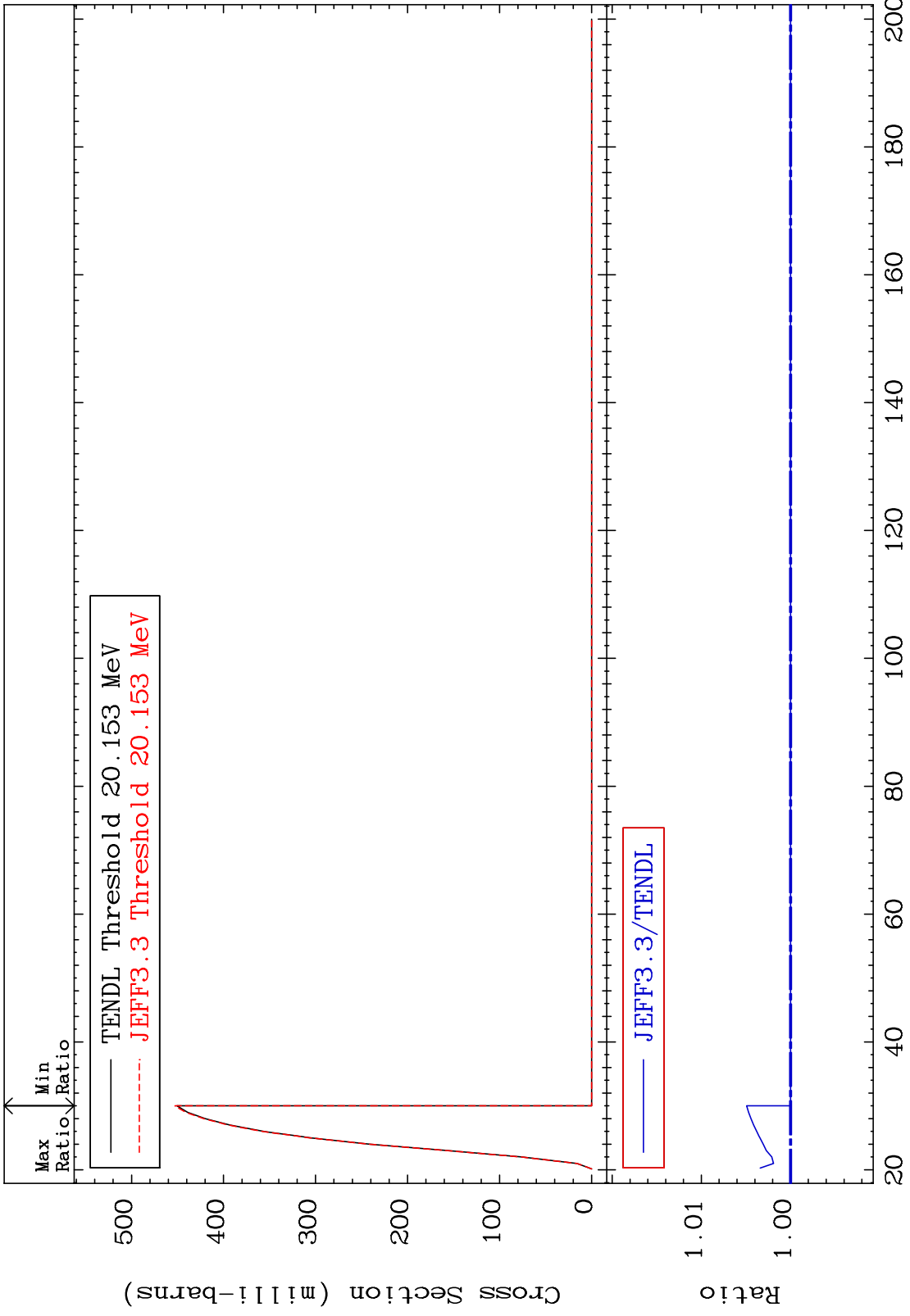


5

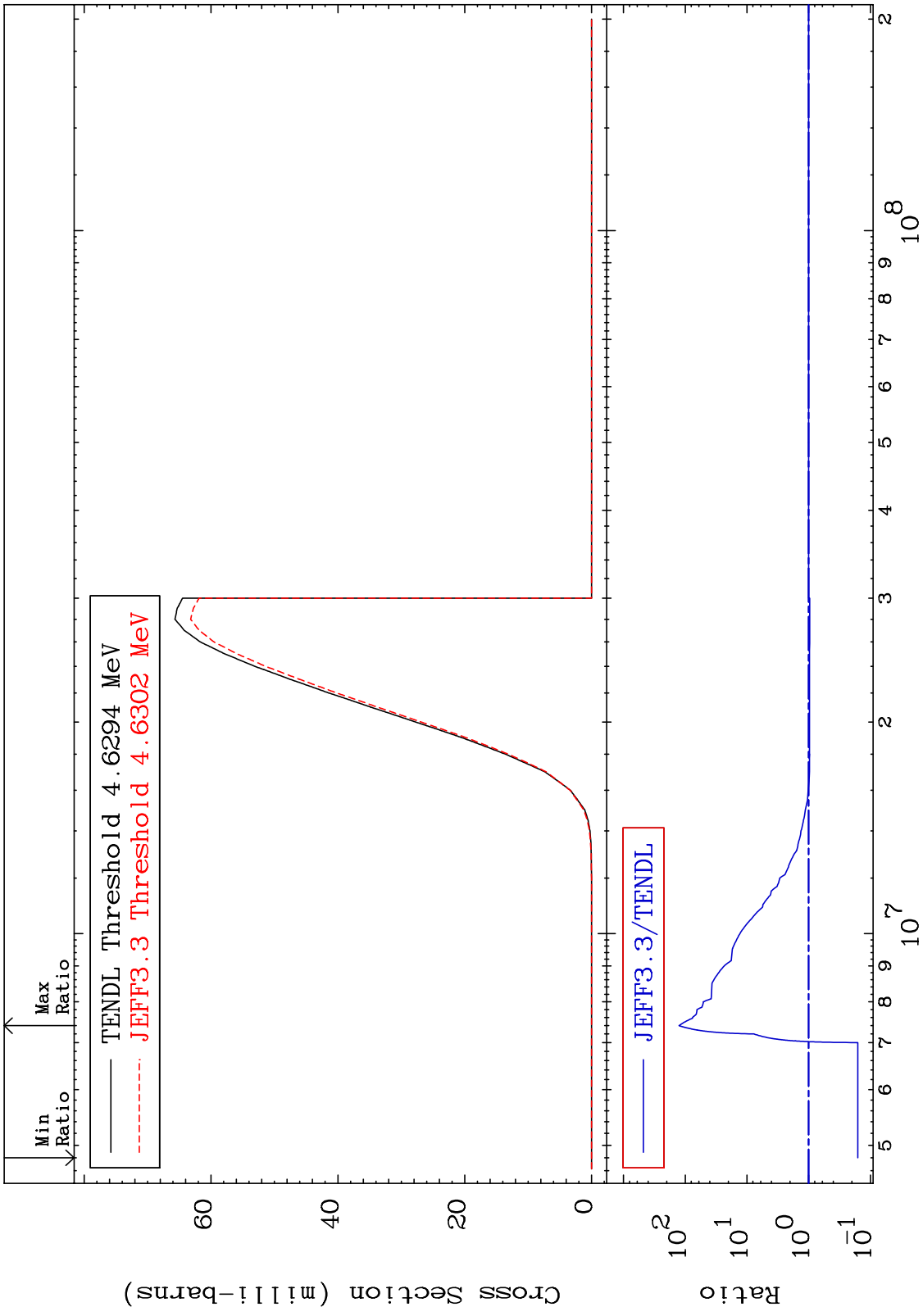
Incident Energy (eV)

41-Nb-92

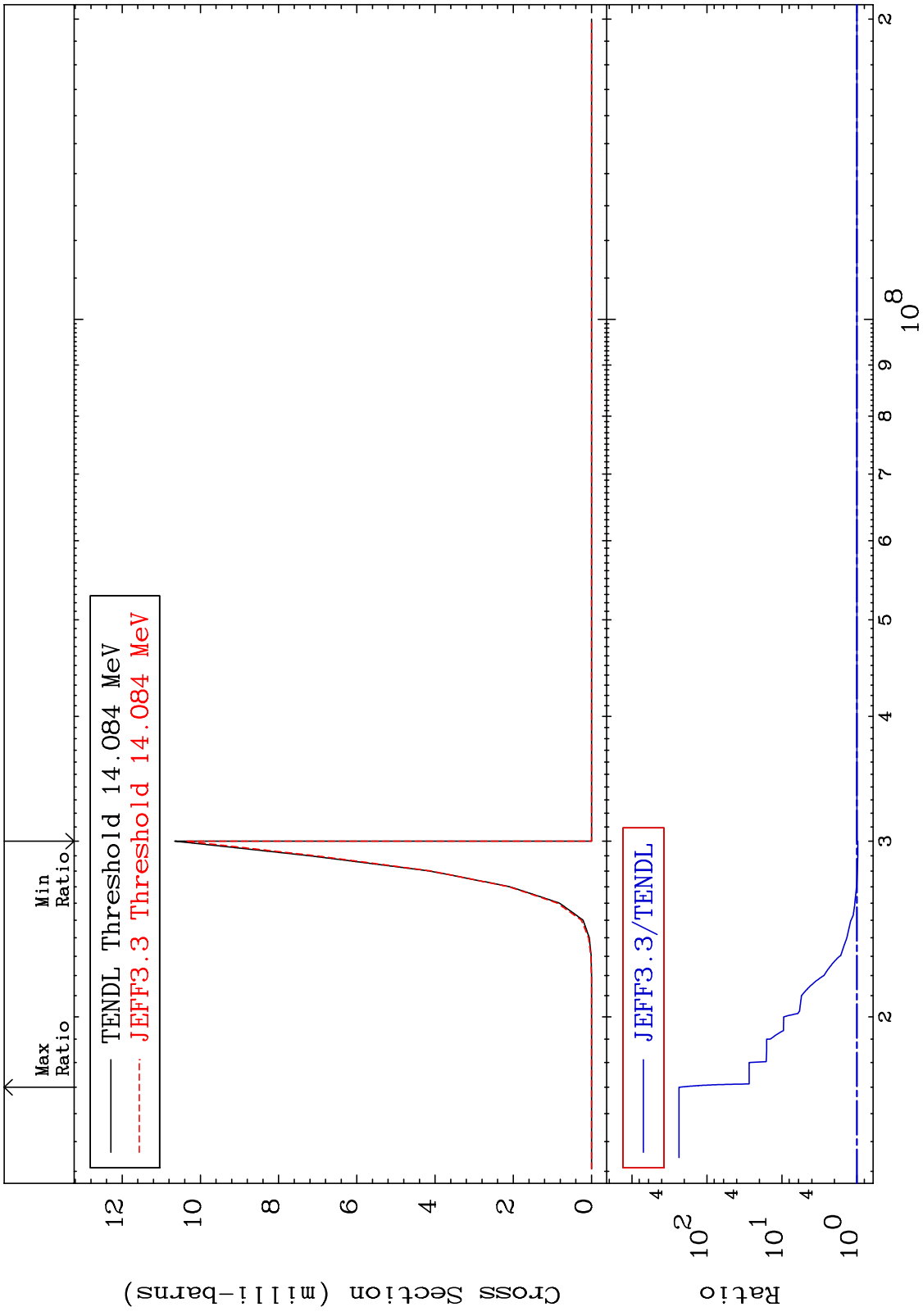
MAT 4122 (n,3n) Cross Section 41-Nb-92 To 0.493 %



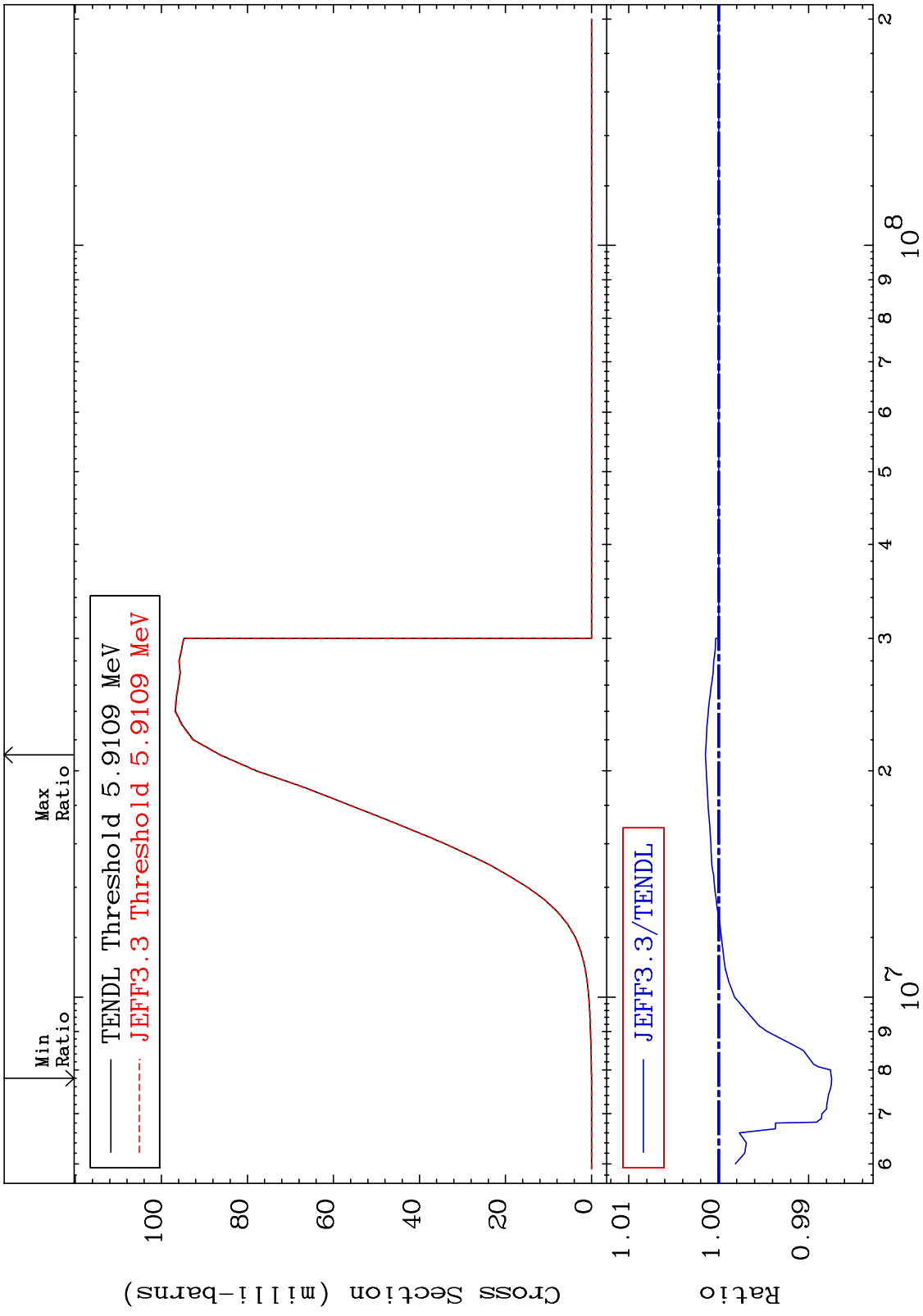
MAT 4122 $(n, n') \alpha$ 41-Nb-92
 Cross Section -84.03 To 9999. %



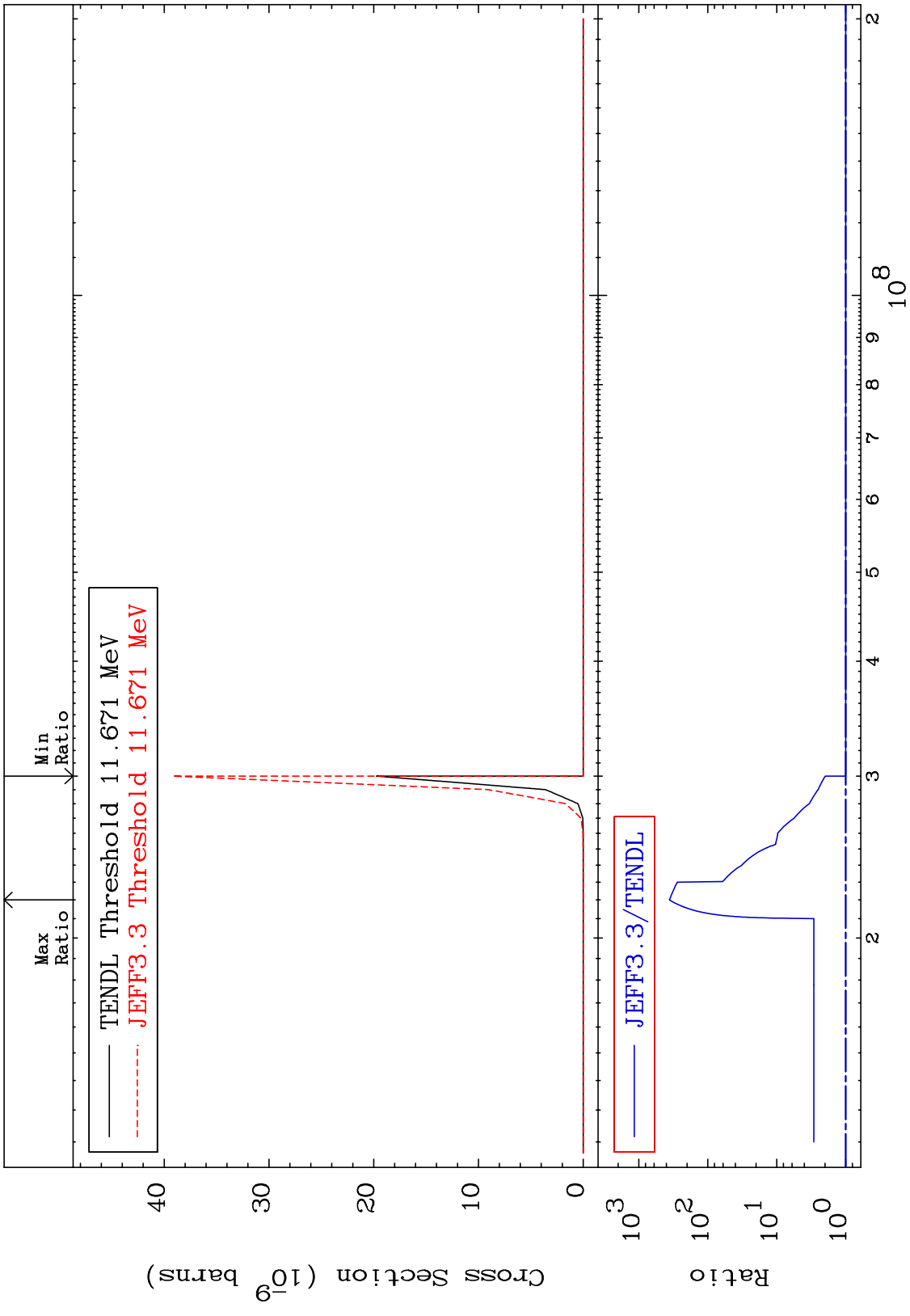
MAT 4122 (n,2n) α 41-Nb-92
 Cross Section -2.486 To 9999. %



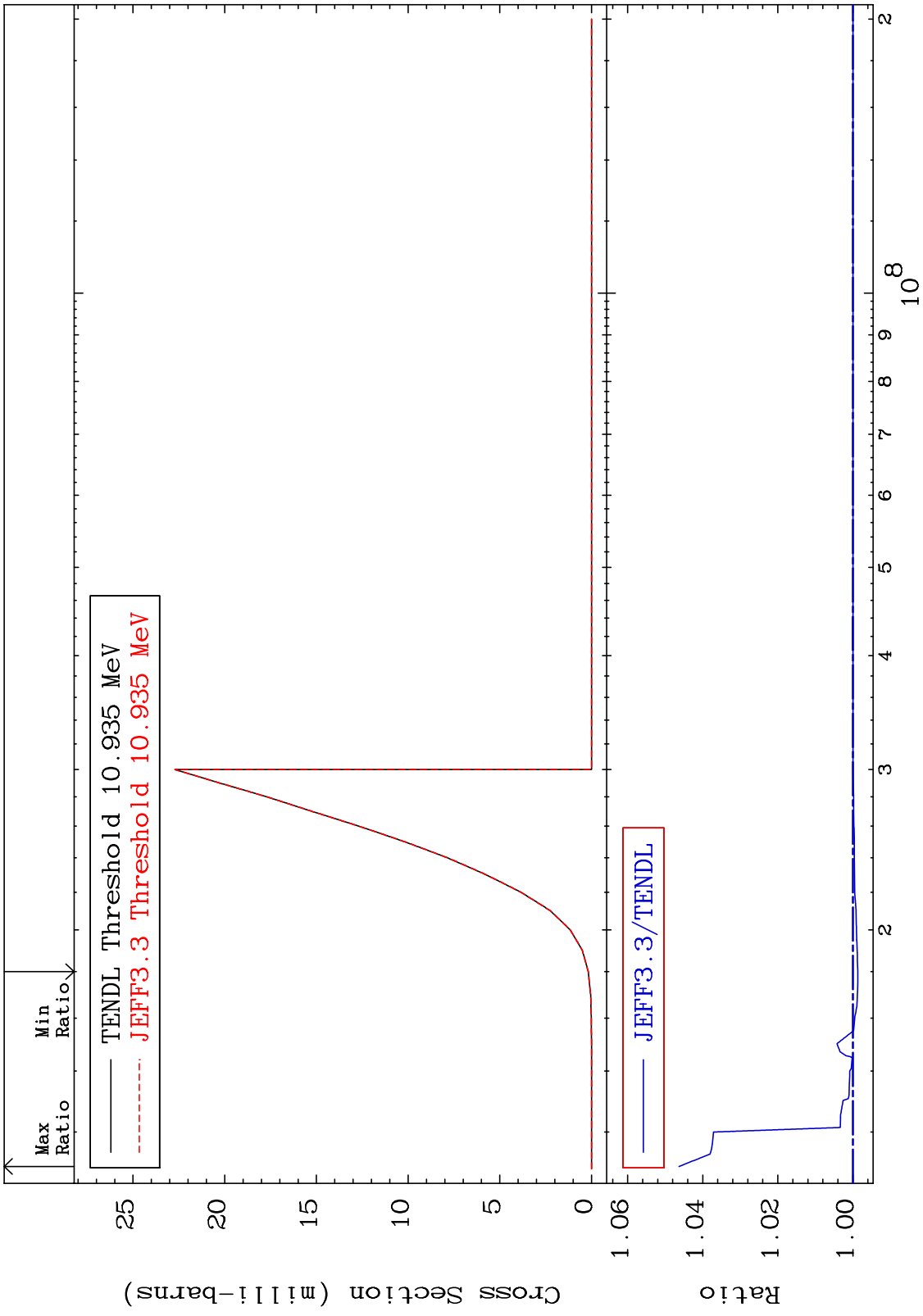
MAT 4122 (n, n') p $^{41}\text{Nb-92}$
 Cross Section -1.255 To 0.148 %



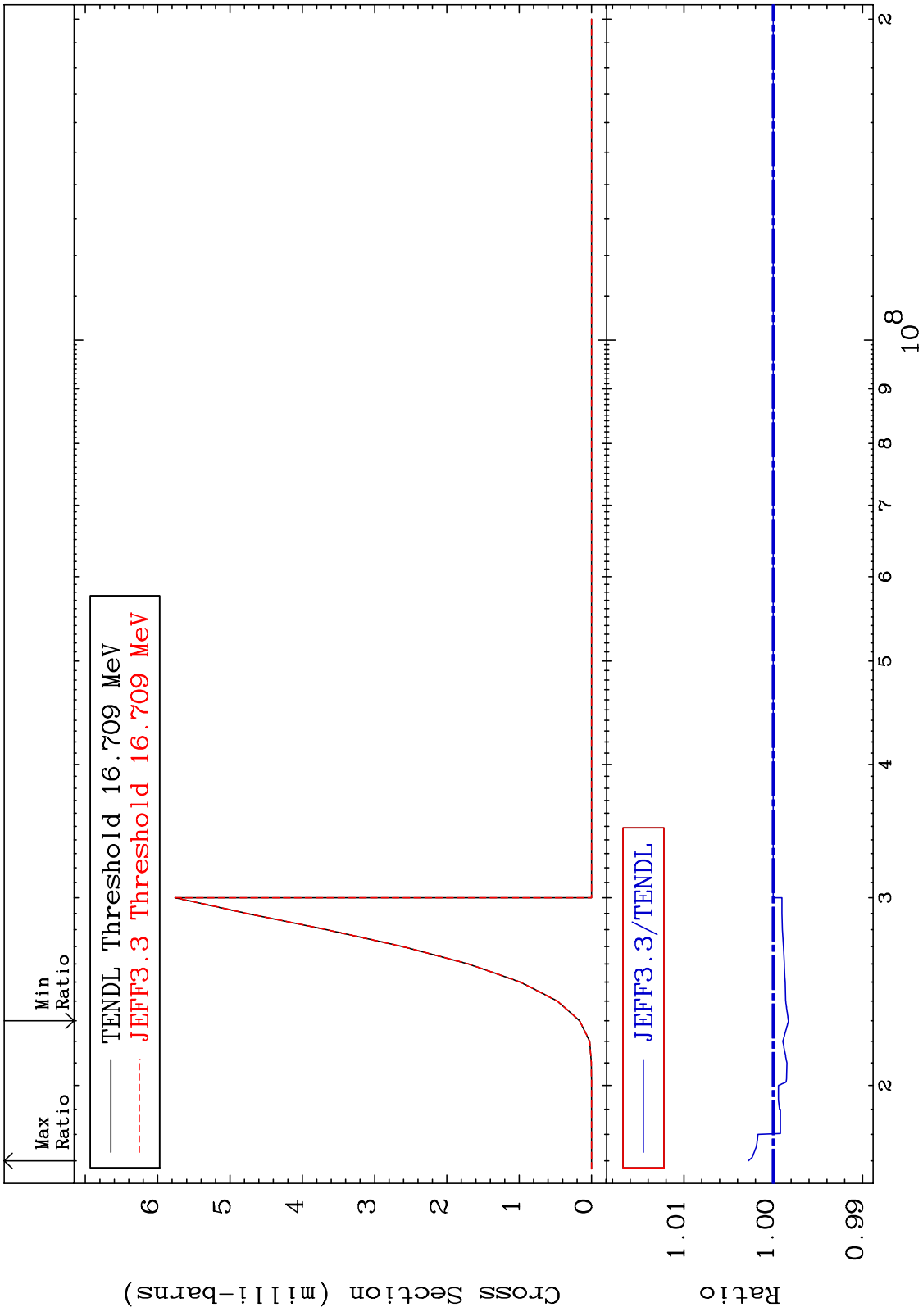
MAT 4122 (n,n') 2α 41-Nb-92
 Cross Section 0.000 To 9999. %



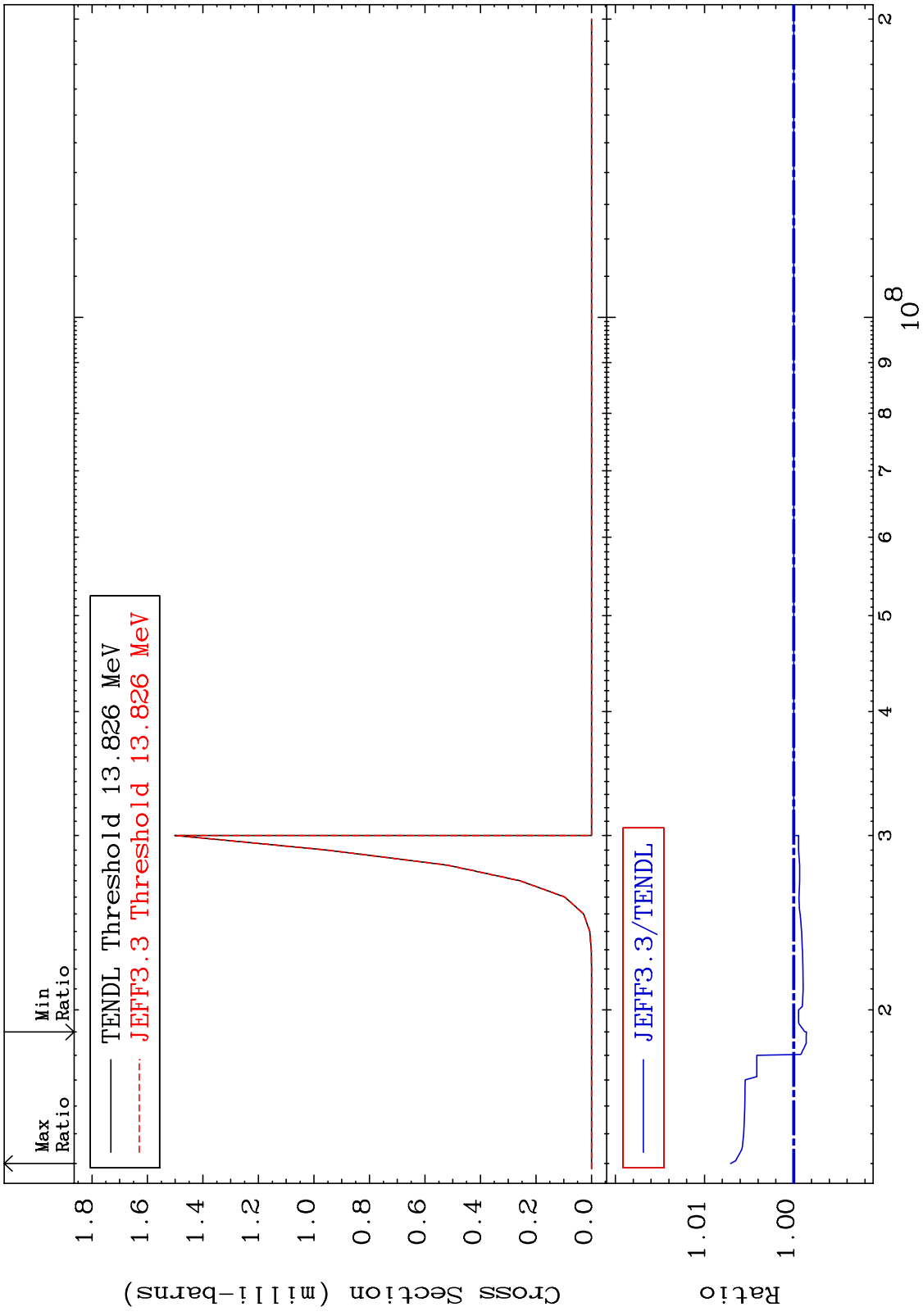
MAT 4122 (n,n') d 41-Nb-92
 Cross Section -0.131 To 4.631 %



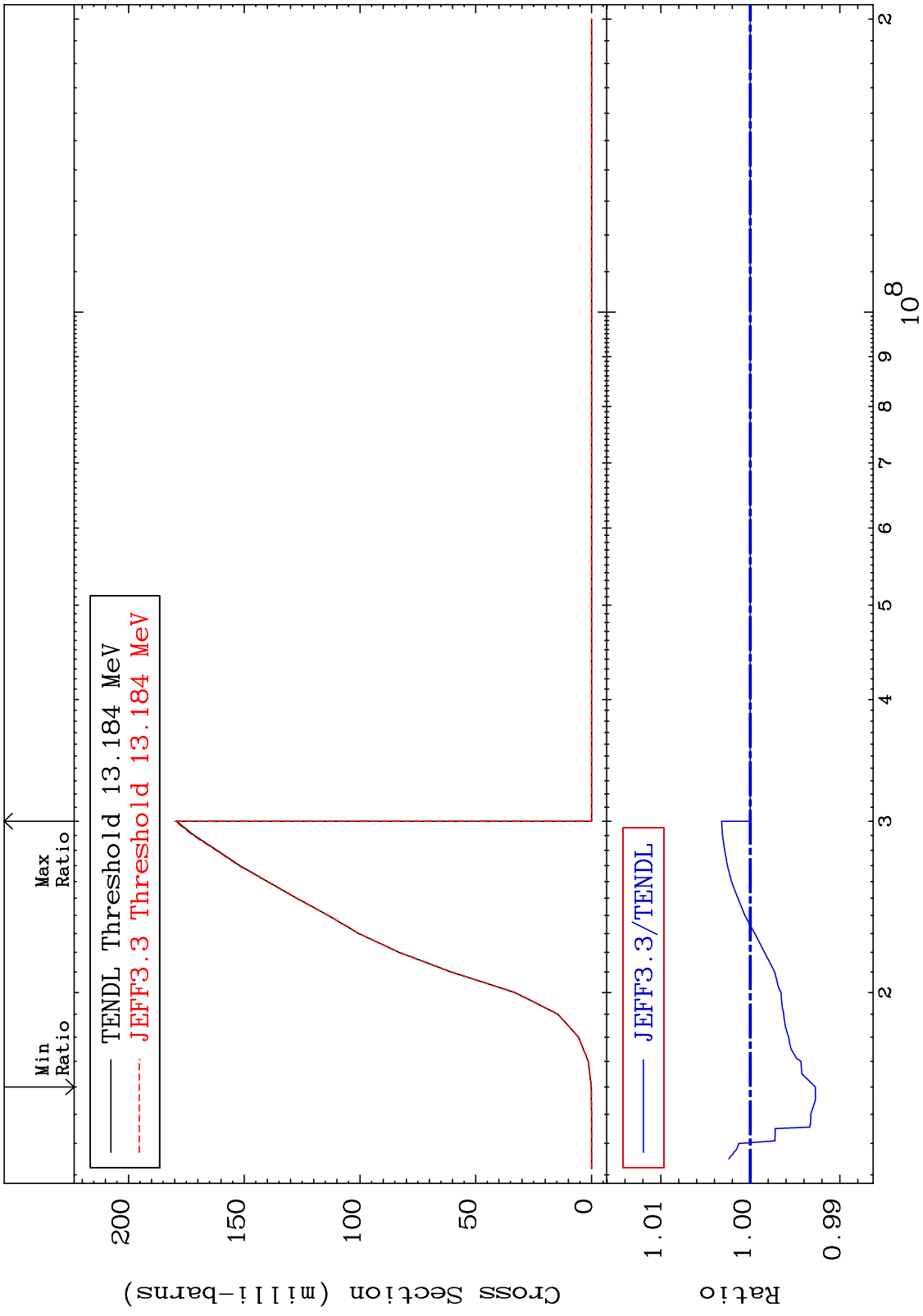
MAT 4122 (n,n') t 41-Nb-92
 Cross Section -0.171 To 0.279 %



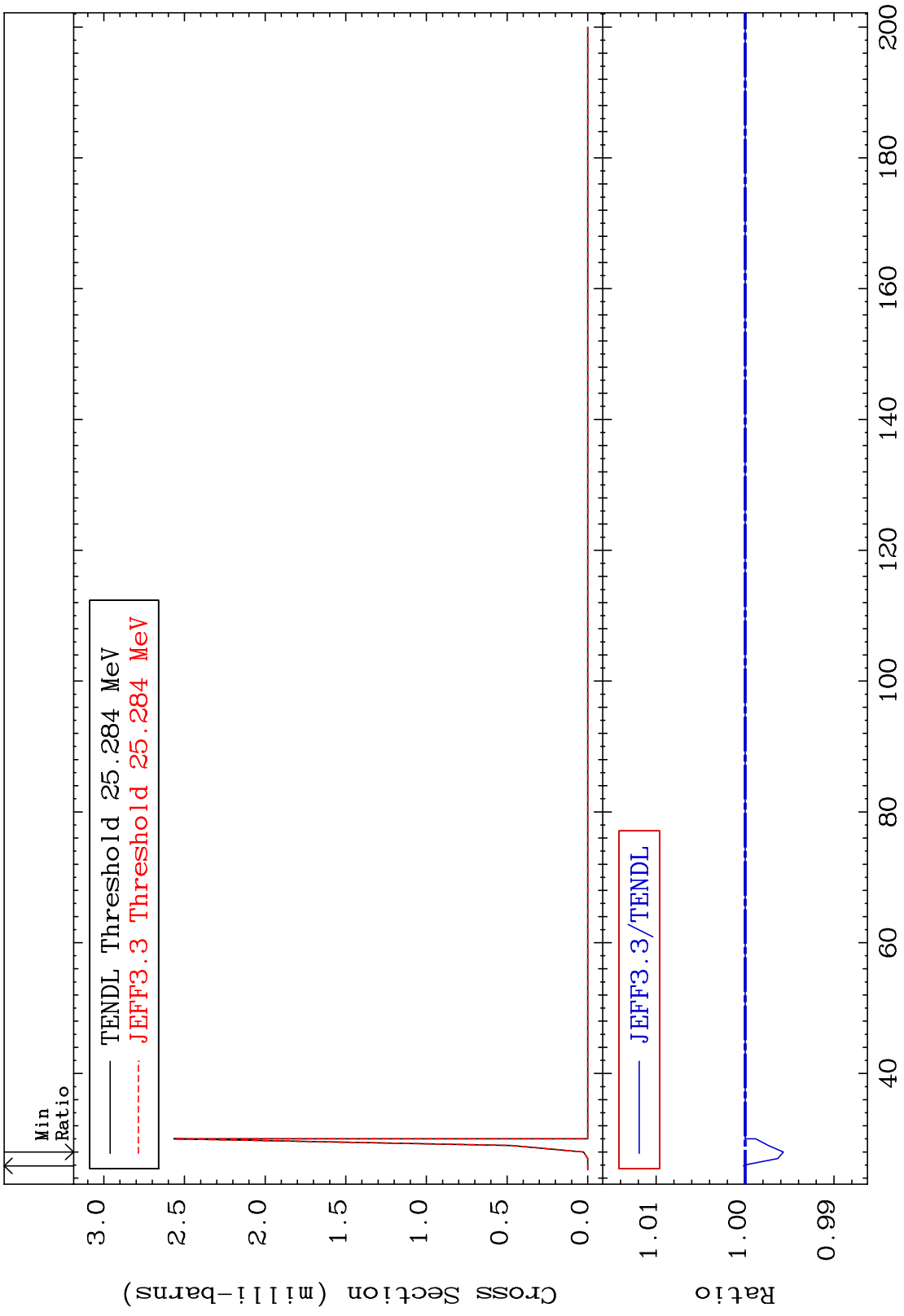
MAT 4122 (n, n') He-3 41-Nb-92
 Cross Section -0.143 To 0.708 %



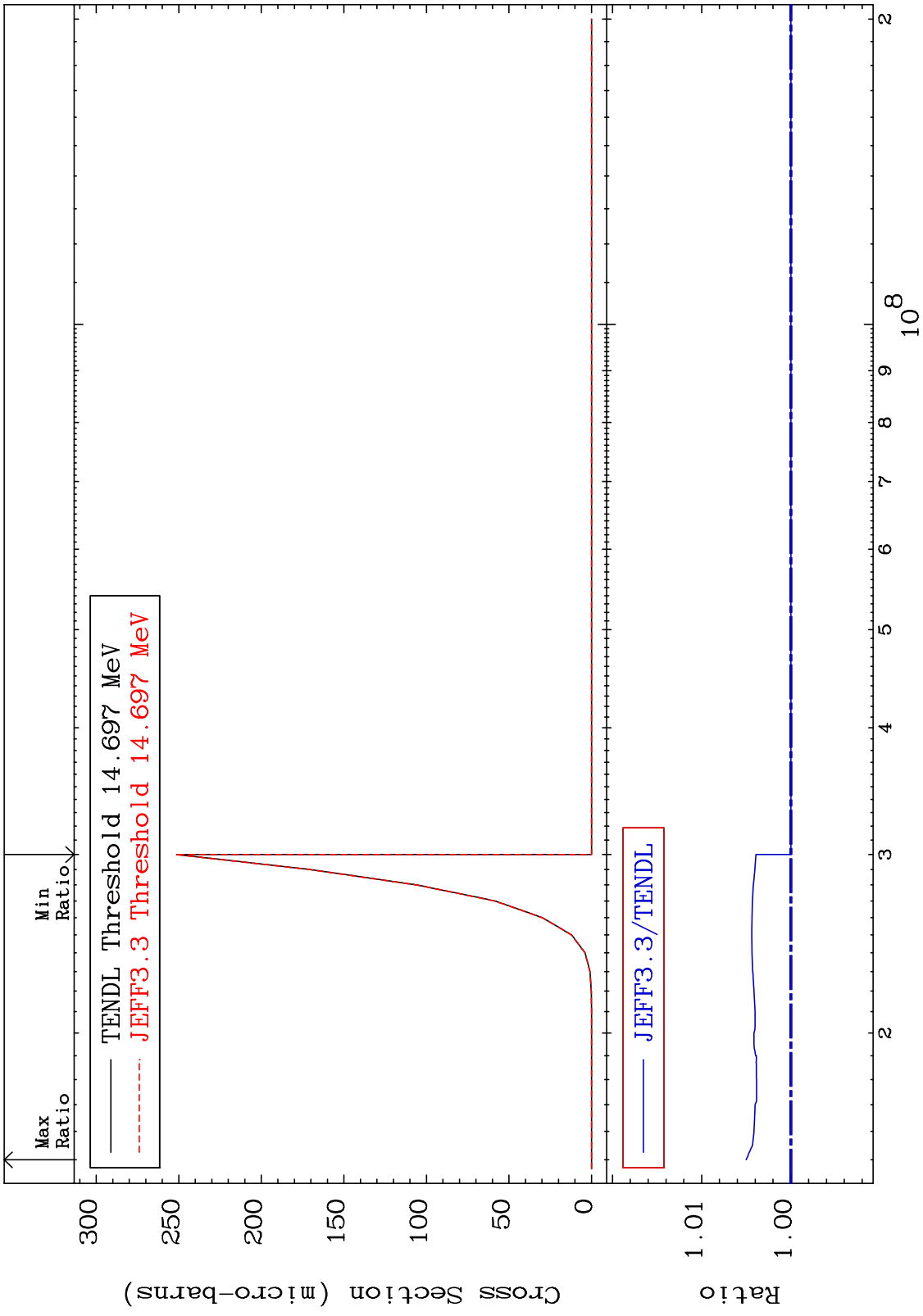
MAT 4122 (n,2n) p 41-Nb-92
 Cross Section -0.726 To 0.322 %

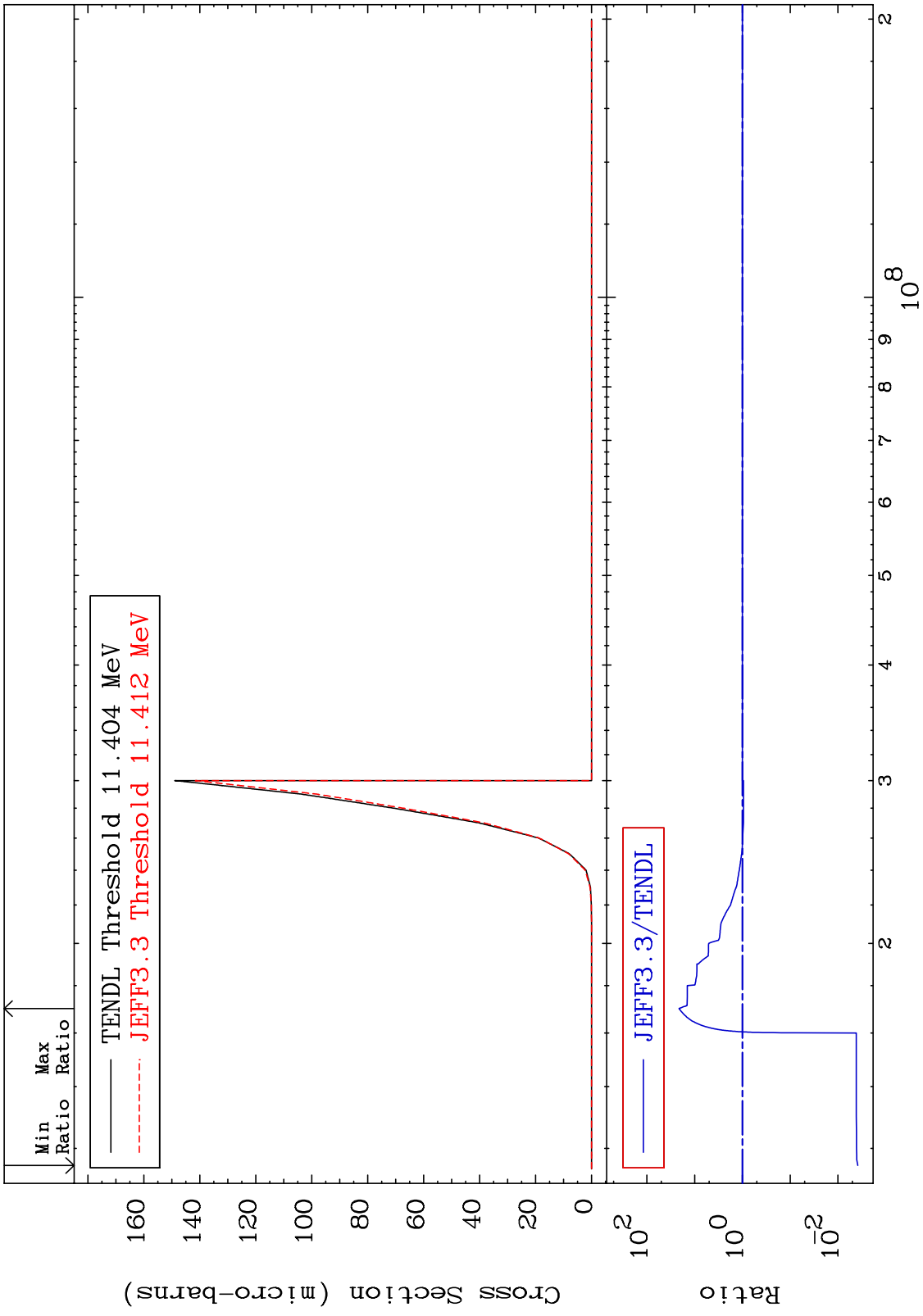


MAT 4122 (n,3n) p 41-Nb-92
 Cross Section -0.431 To 0.018 %

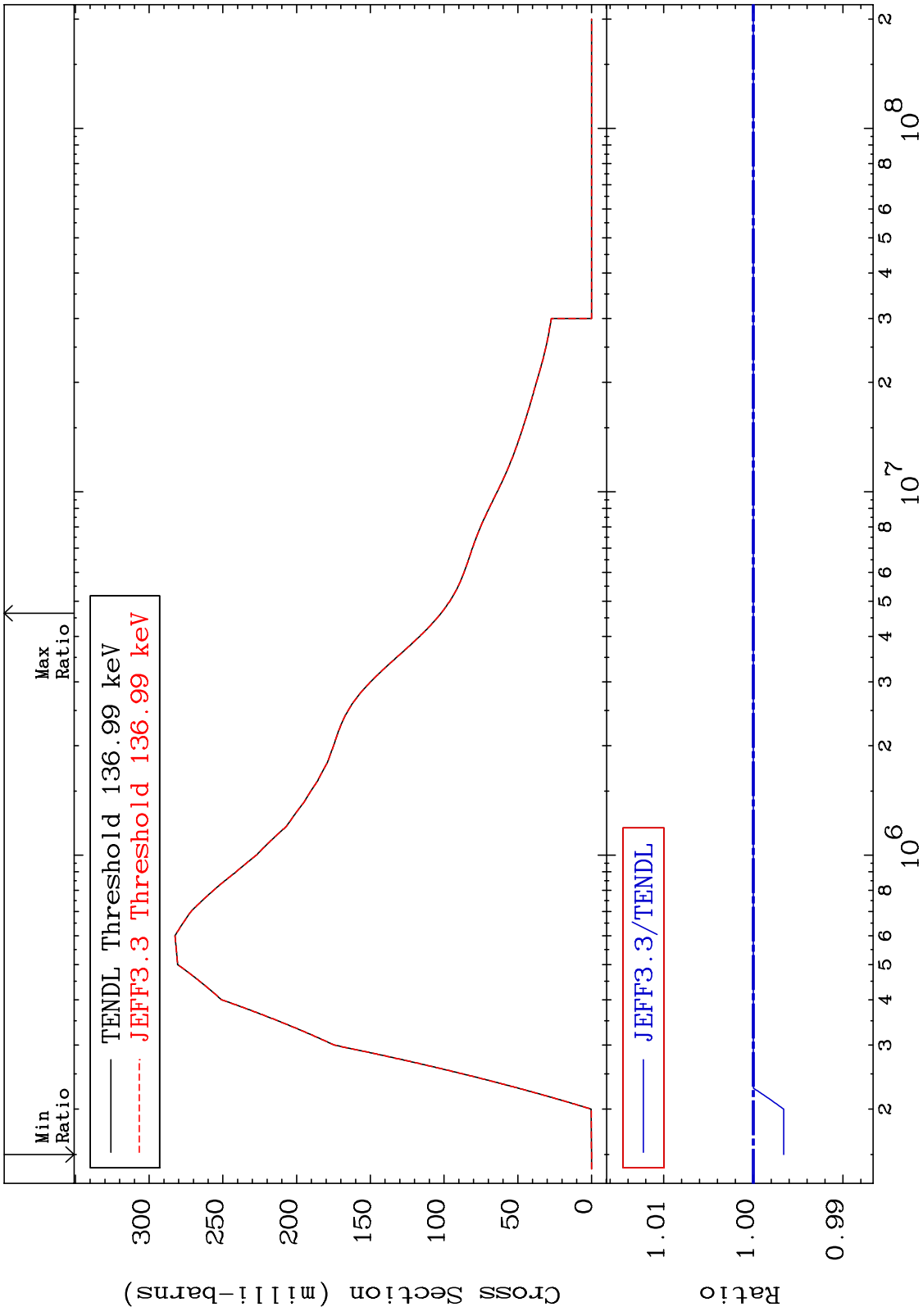


MAT 4122 (n,2n) p 41-Nb-92
 Cross Section 0.000 To 0.502 %

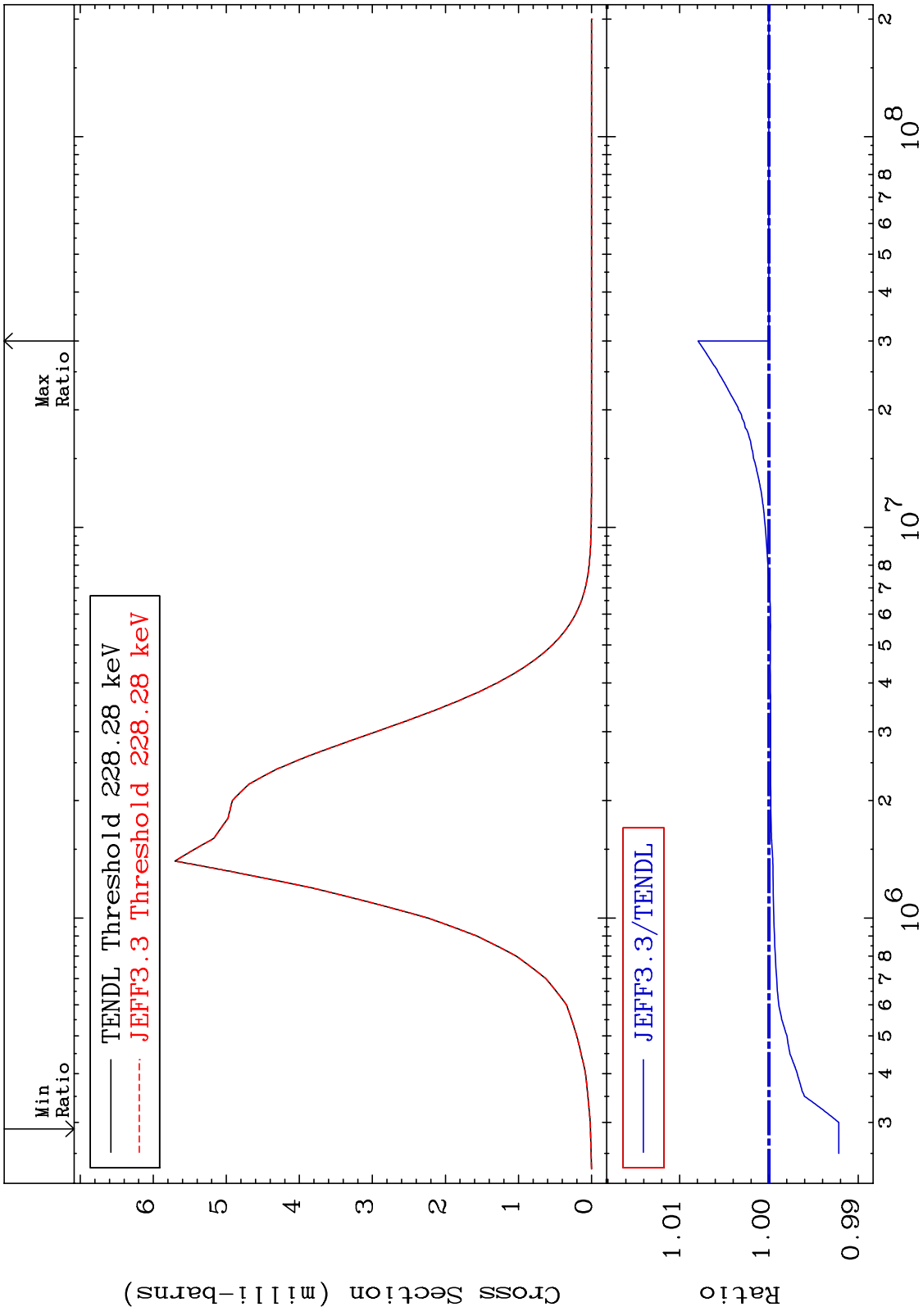




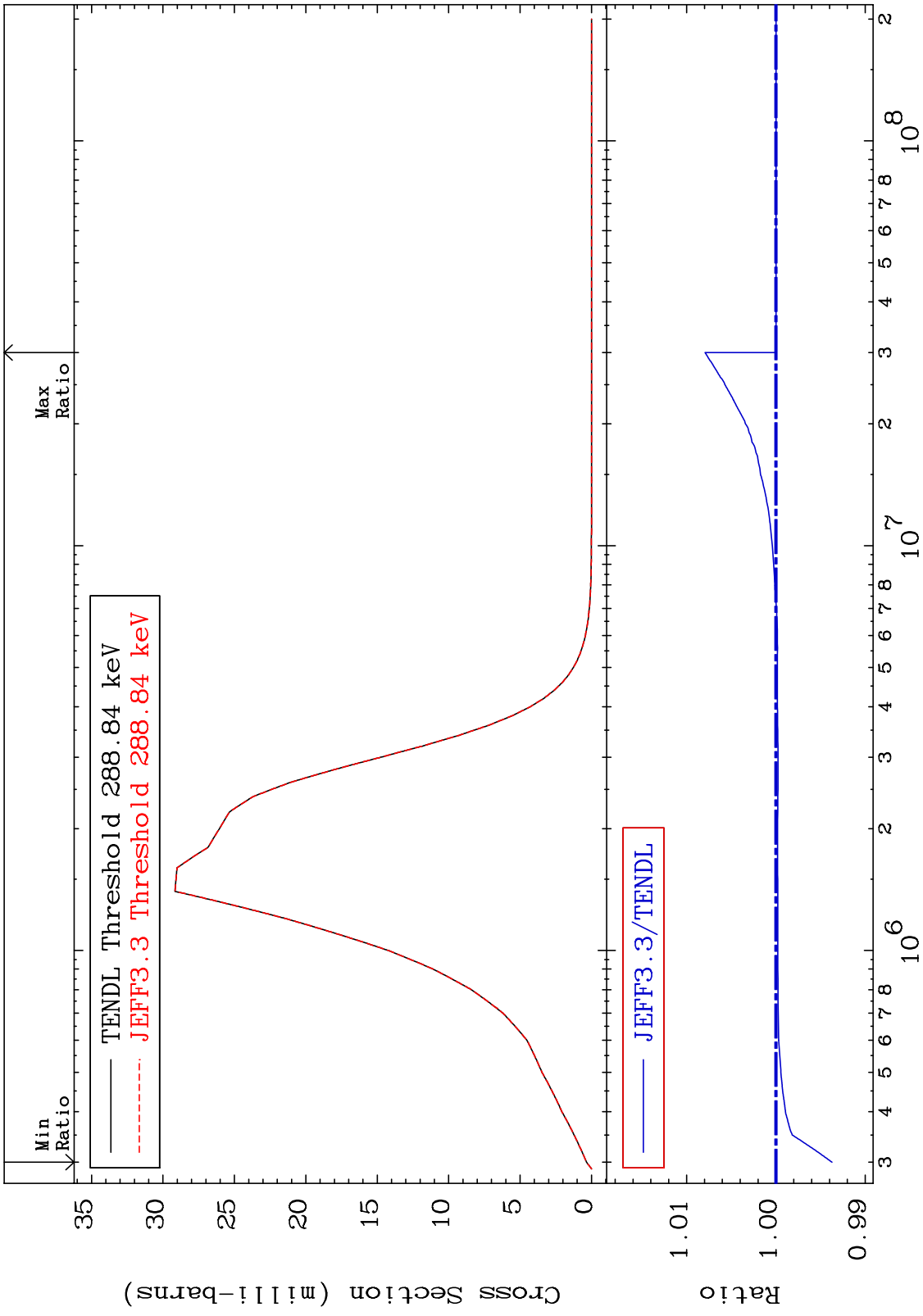
MAT 4122 MT= 51 (n,n') Level Cross Section -0.338 To 0.000 % 41-Nb-92



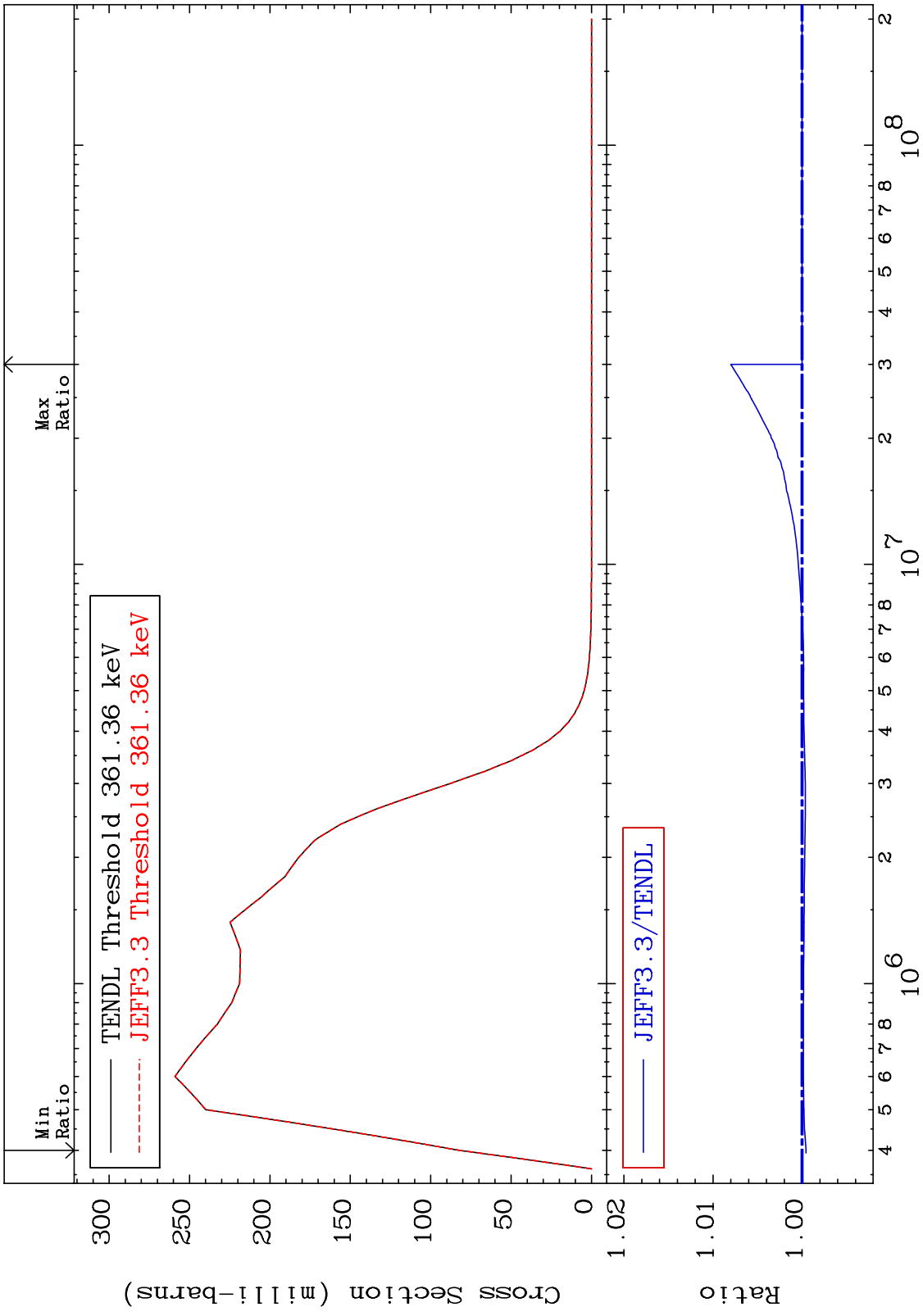
MAT 4122 MT= 52 (n,n') Level Cross Section 41-Nb-92 -0.782 To 0.793 %



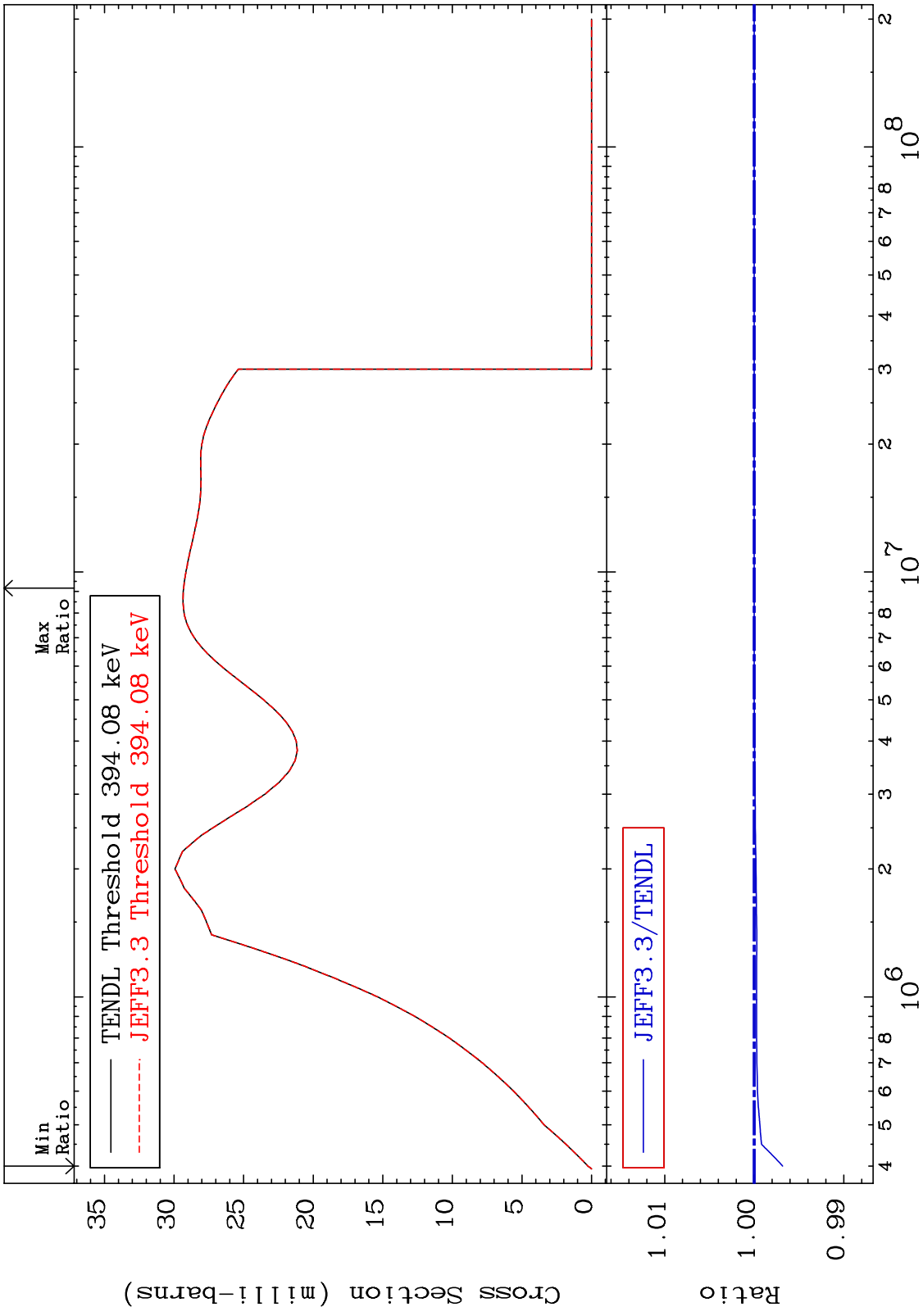
MAT 4122 MT= 53 (n,n') Level Cross Section 41-Nb-92 -0.627 To 0.794 %



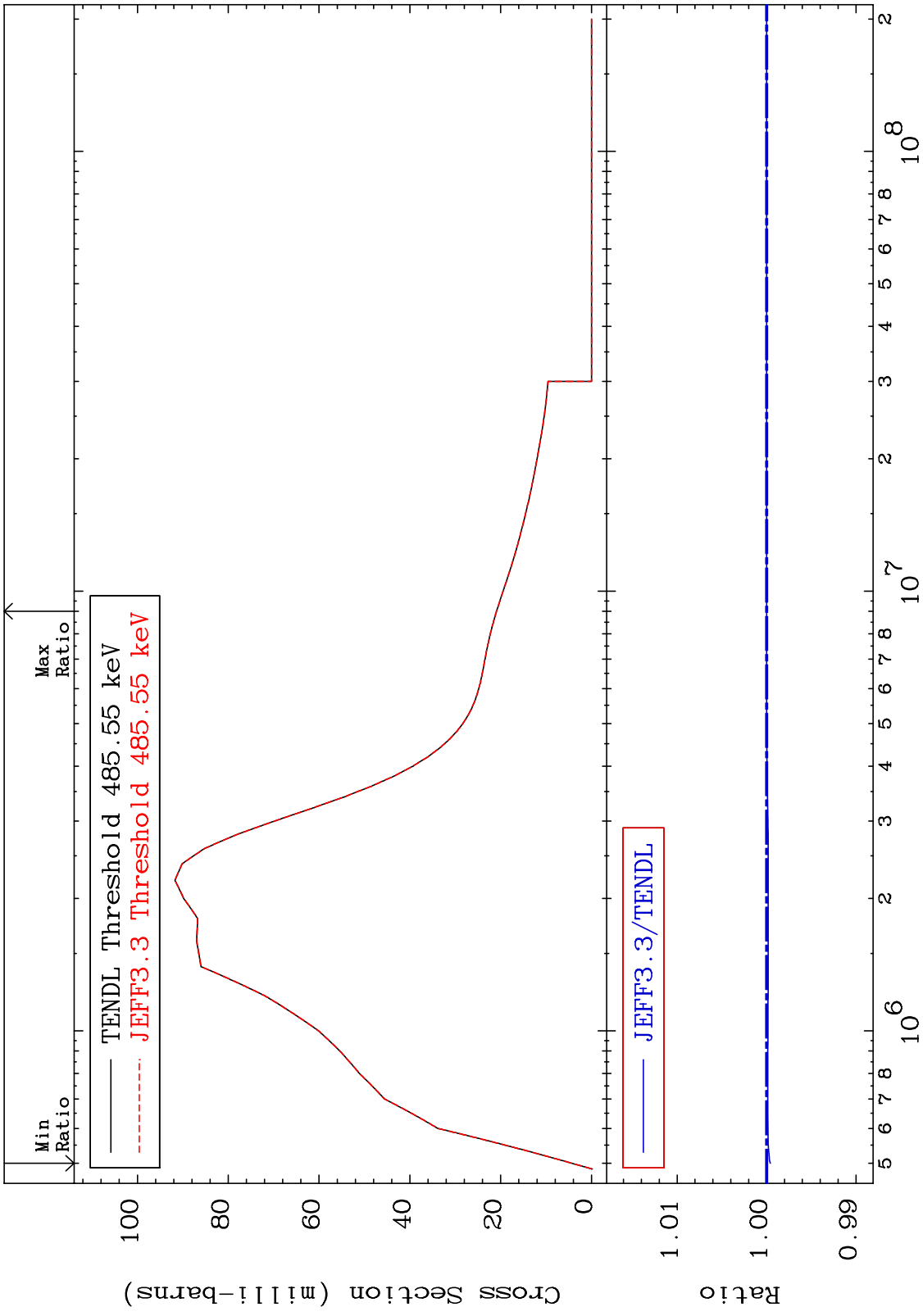
MAT 4122 MT= 54 (n,n') Level Cross Section 41-Nb-92 -0.045 To 0.800 %



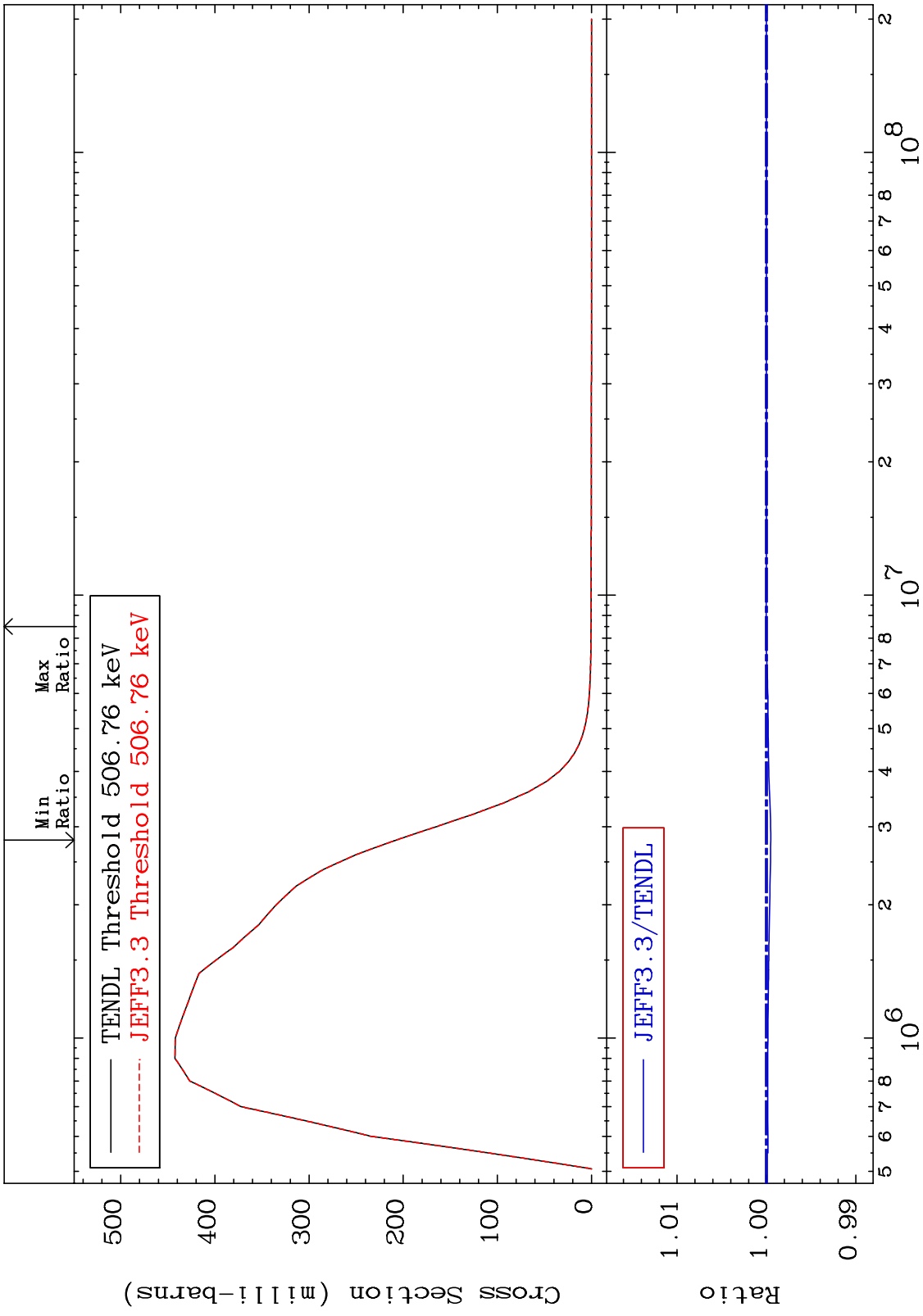
MAT 4122 MT= 55 (n,n') Level Cross Section -0.318 To 0.000 % 41-Nb-92



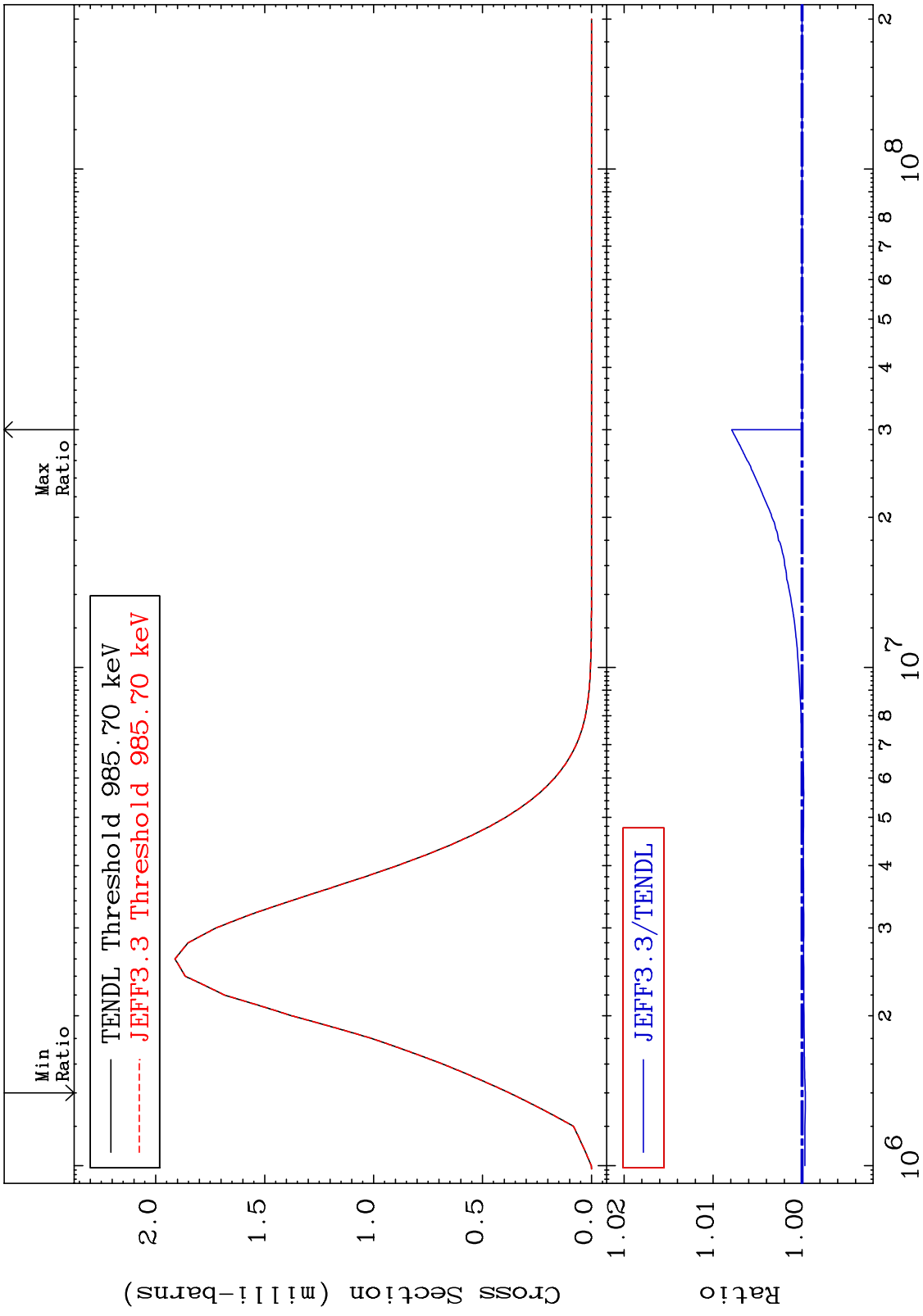
MAT 4122 MT= 56 (n,n') Level Cross Section -0.042 To 0.000 % 41-Nb-92



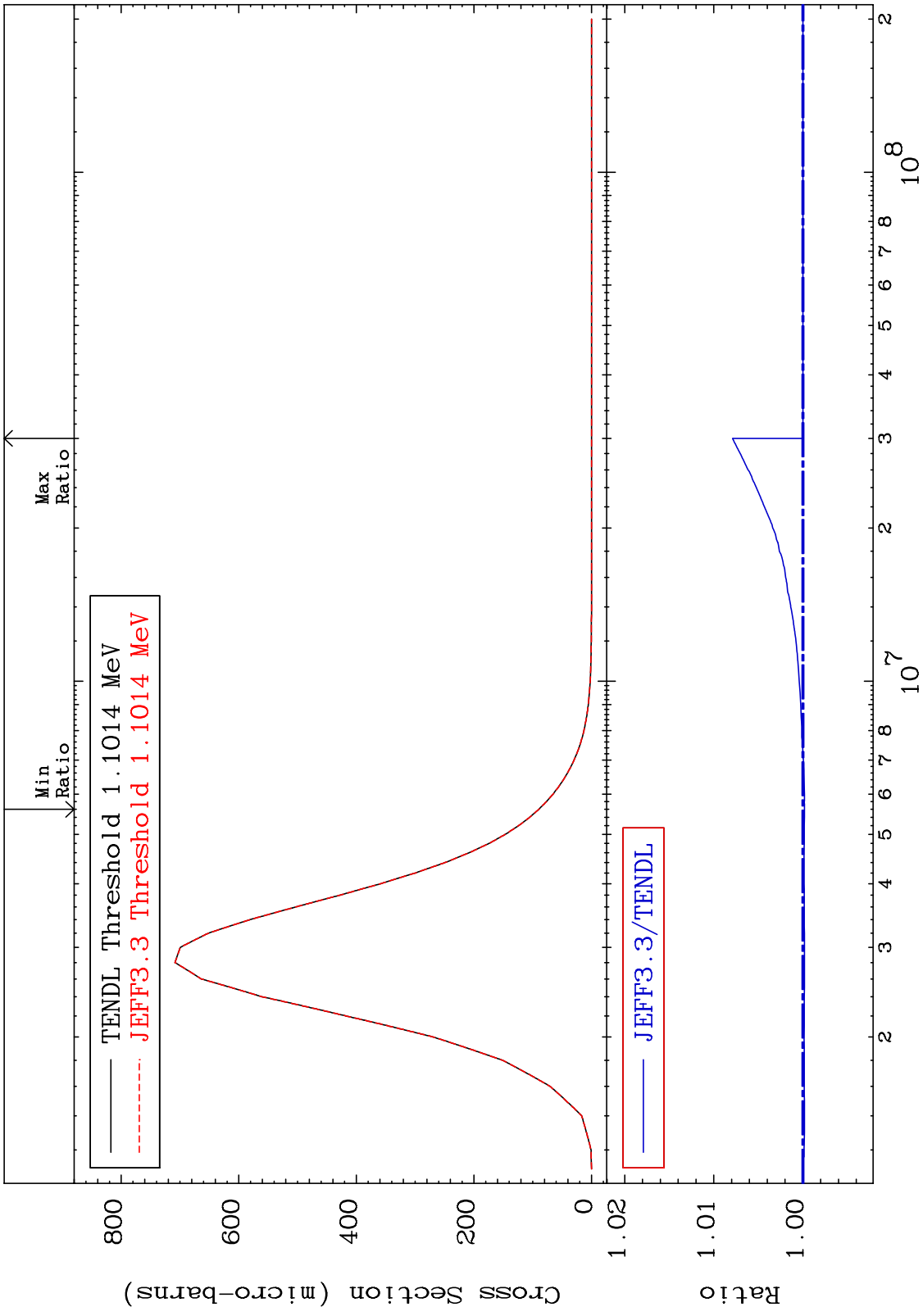
MAT 4122 MT= 57 (n,n') Level Cross Section 41-Nb-92
 -0.047 To 0.004 %



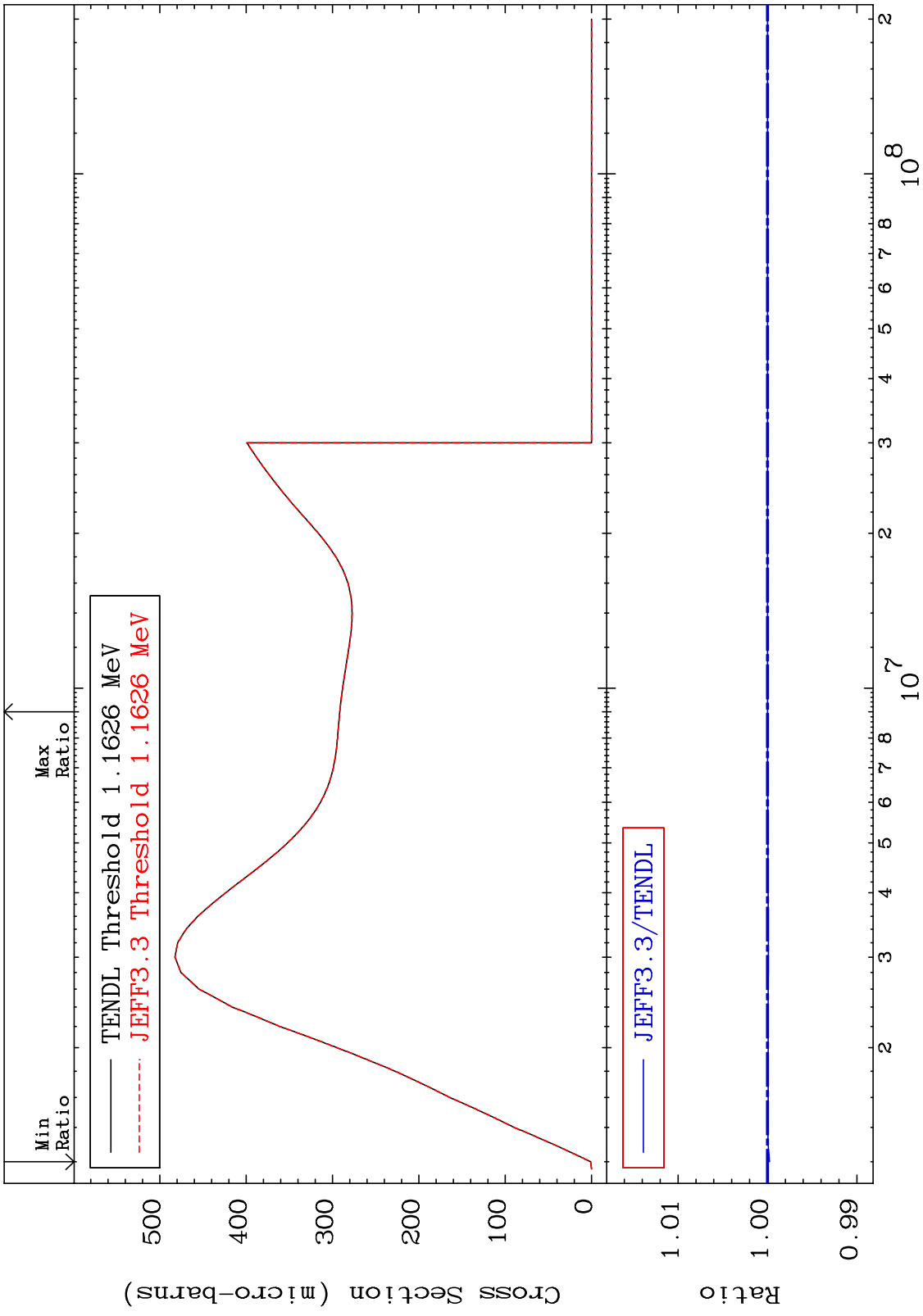
MAT 4122 MT= 58 (n,n') Level Cross Section 41-Nb-92
 -0.036 To 0.793 %



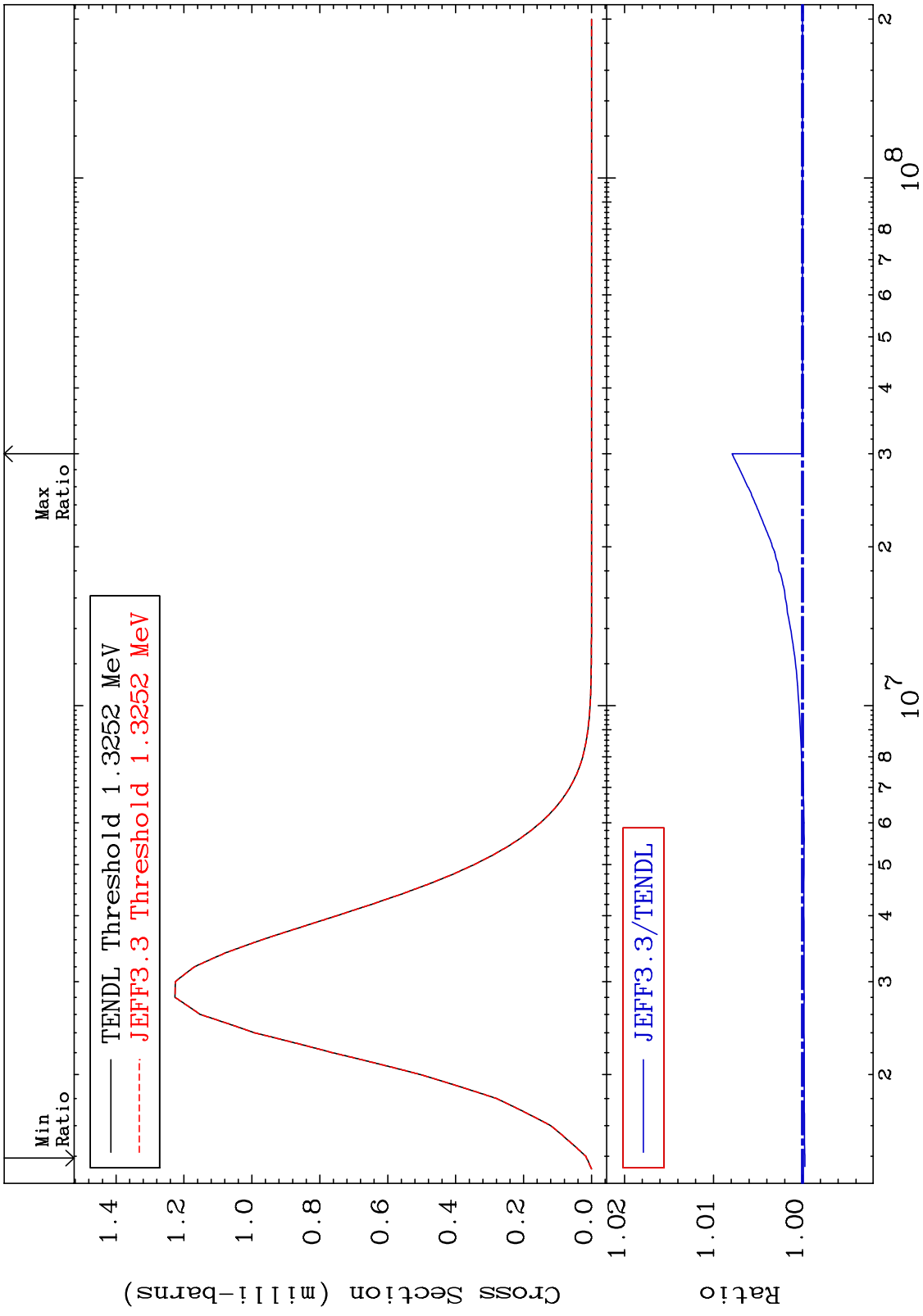
MAT 4122 MT= 59 (n,n') Level Cross Section 41-Nb-92 -0.018 To 0.791 %



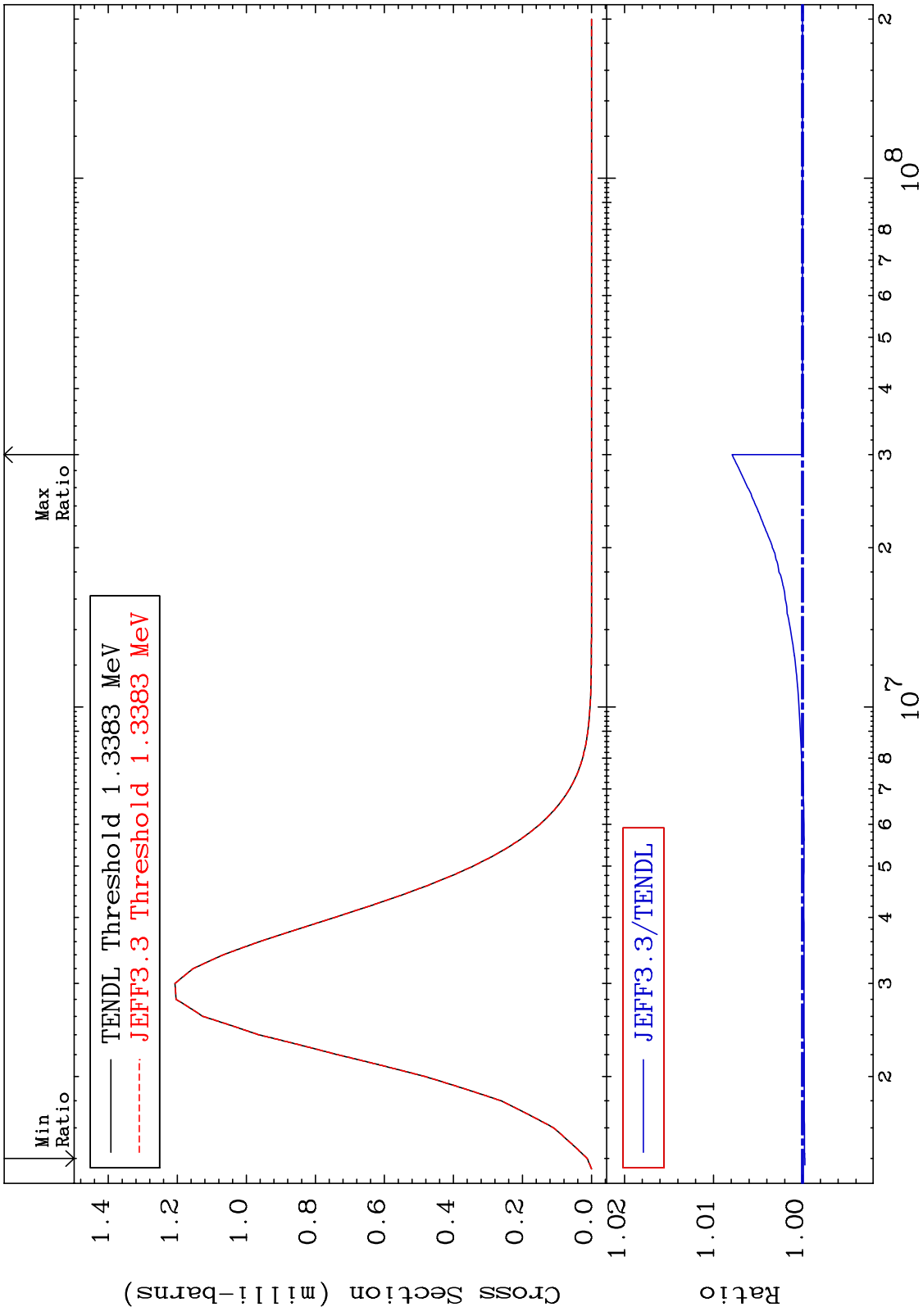
MAT 4122 MT= 60 (n,n') Level Cross Section 41-Nb-92 -0.022 To 0.000 %



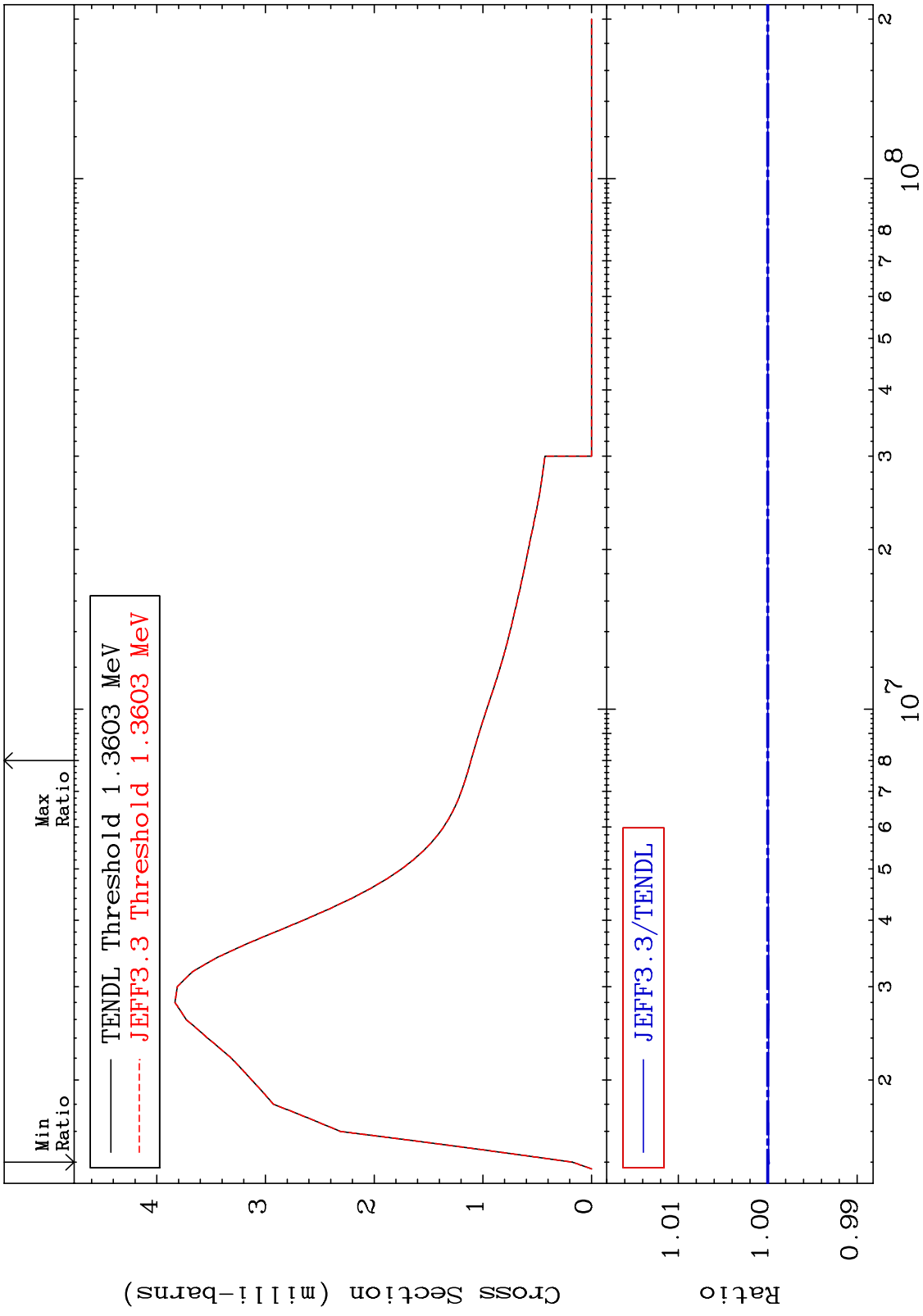
MAT 4122 MT= 61 (n,n') Level Cross Section 41-Nb-92
 -0.026 To 0.792 %



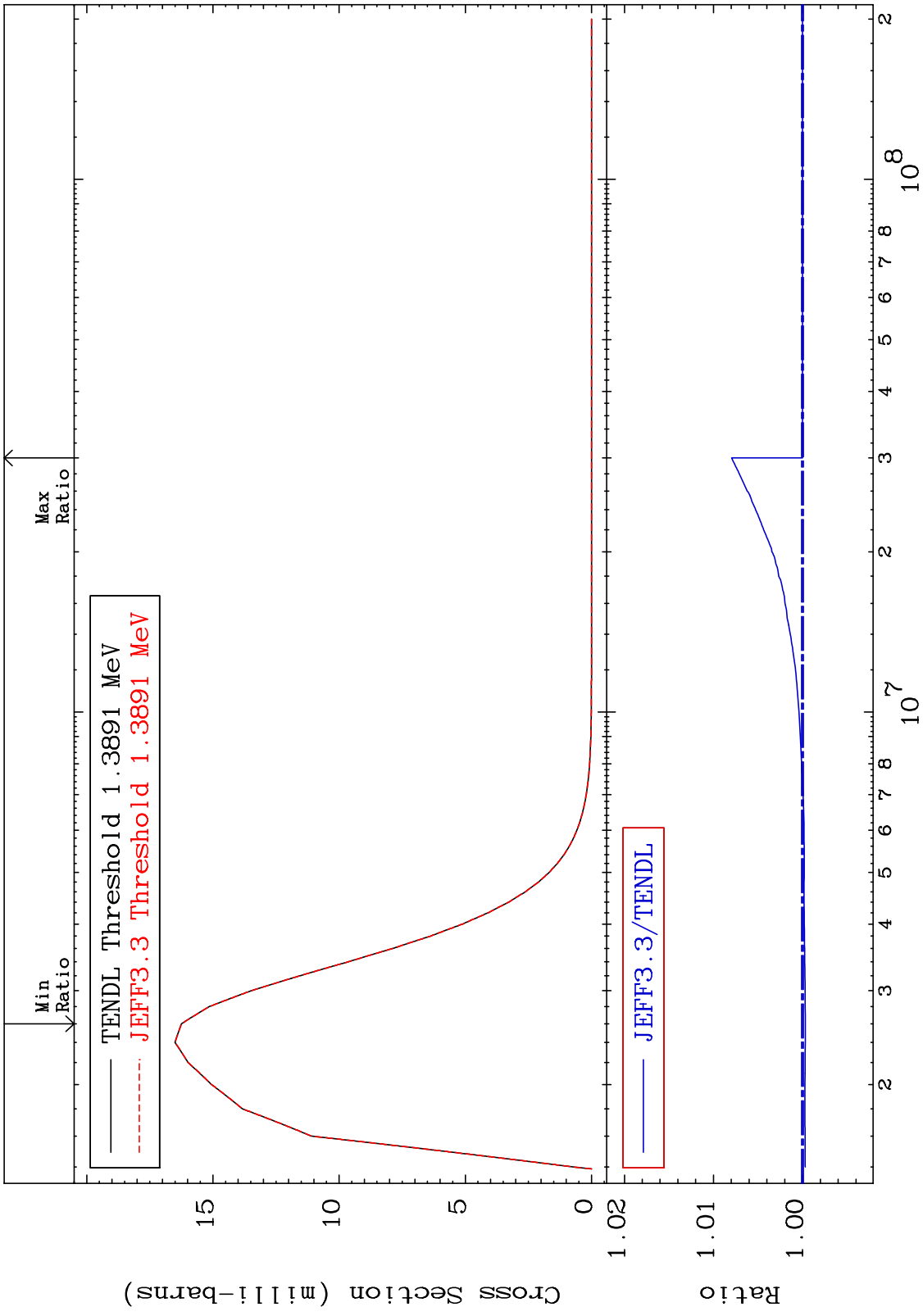
MAT 4122 MT= 62 (n,n') Level Cross Section 41-Nb-92
 -0.025 To 0.792 %



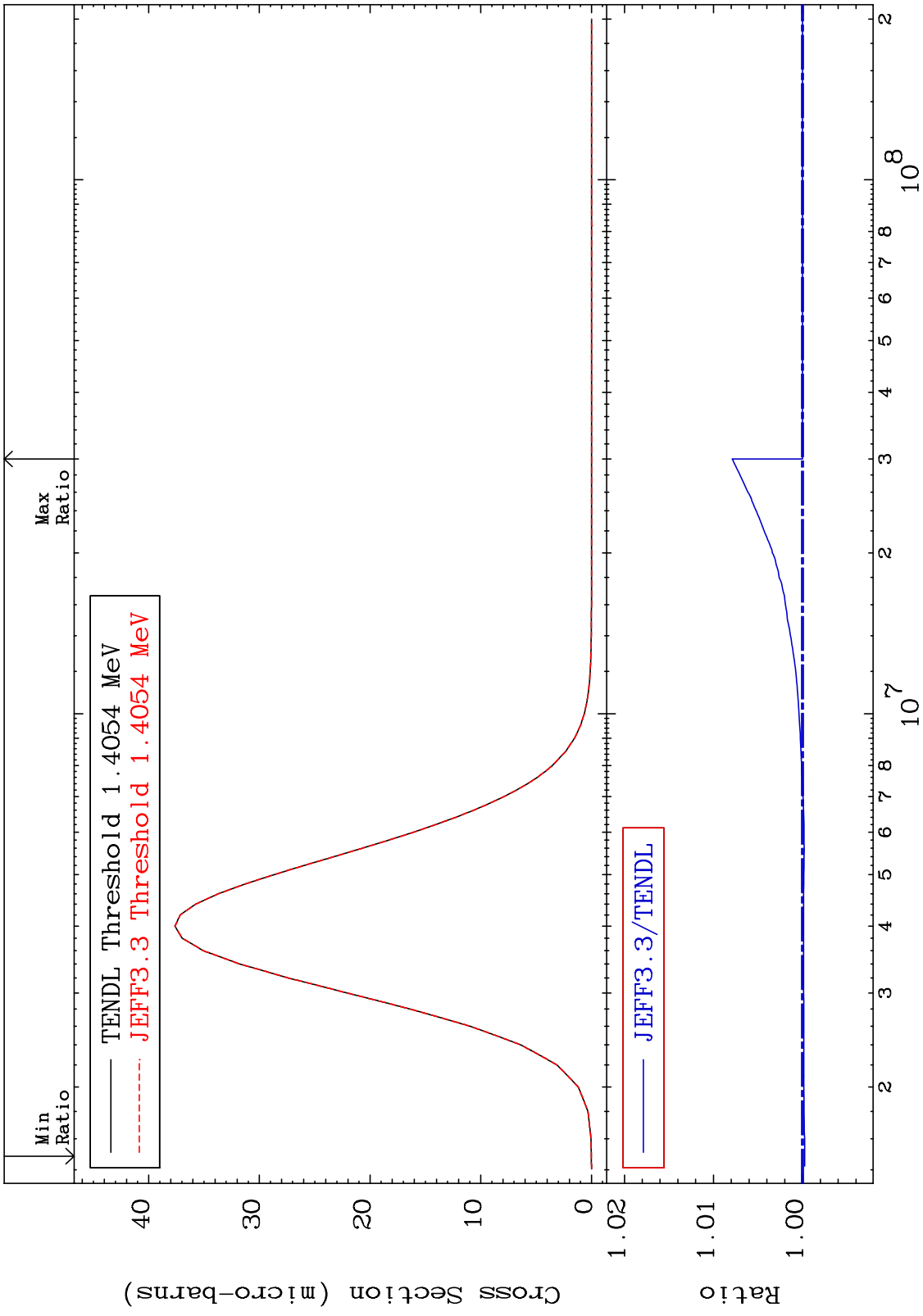
MAT 4122 MT= 63 (n,n') Level Cross Section 41-Nb-92 -0.015 To 0.000 %



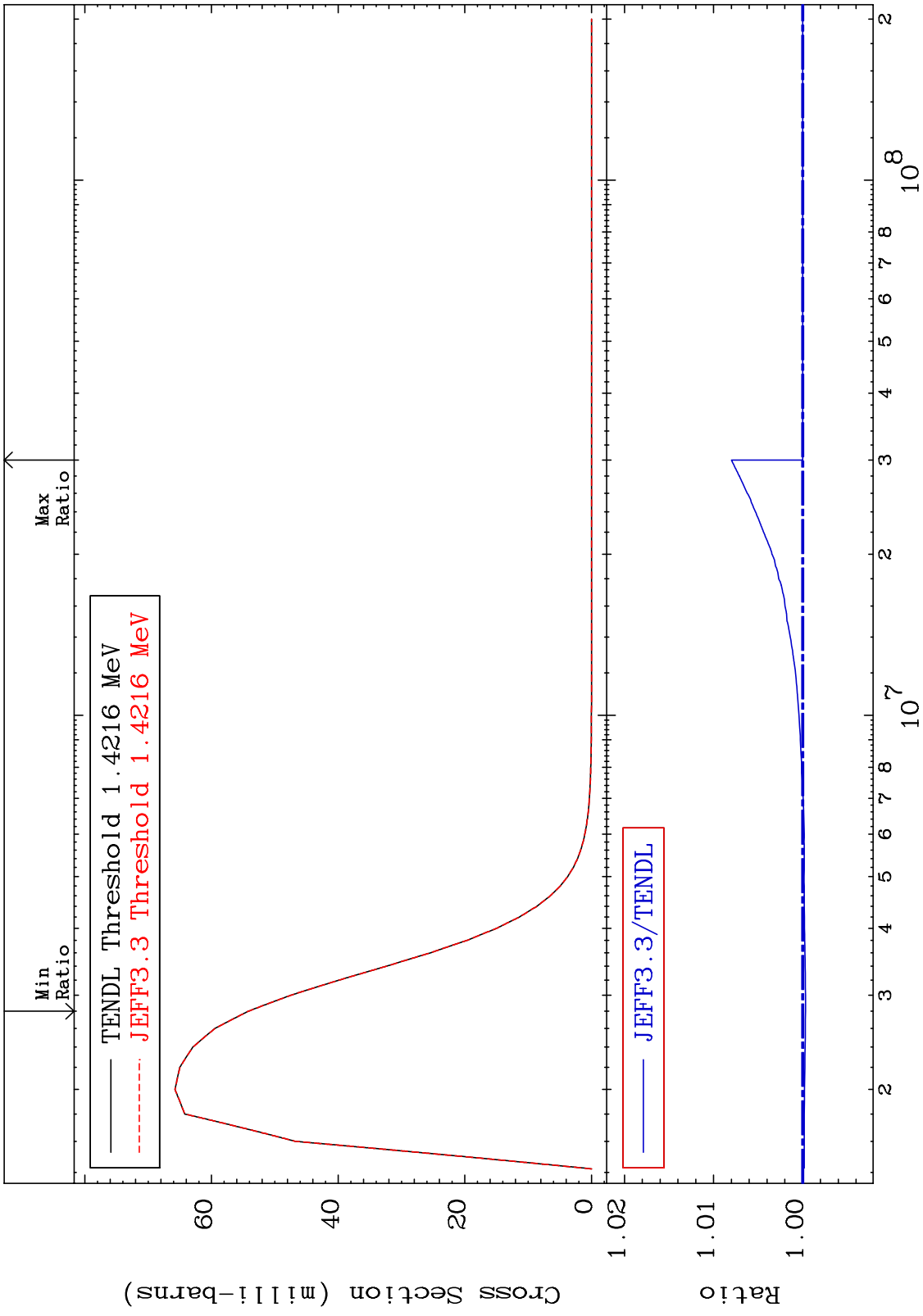
MAT 4122 MT= 64 (n,n') Level Cross Section -0.031 To 0.797 % 41-Nb-92



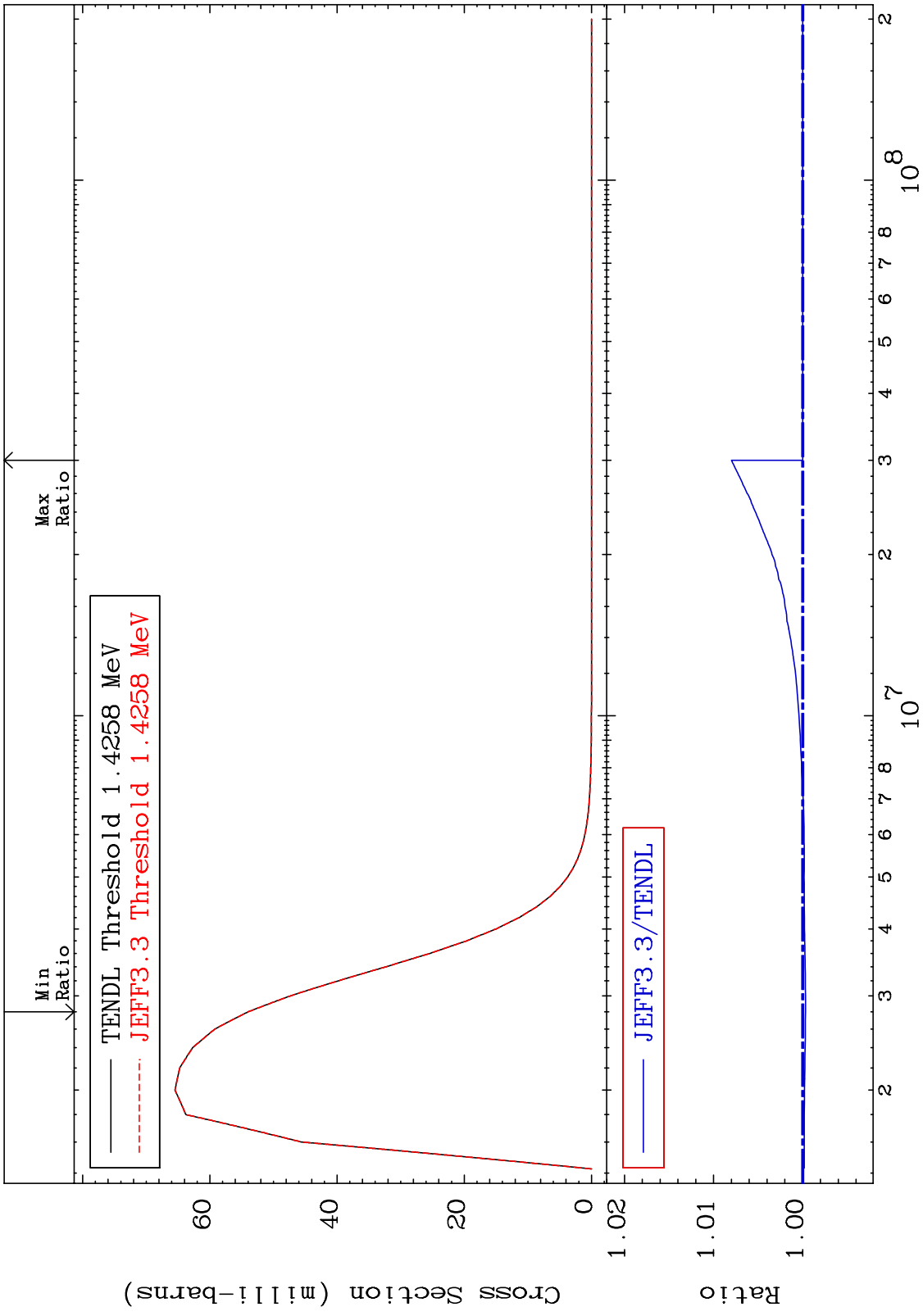
MAT 4122 MT= 65 (n,n') Level Cross Section -0.024 To 0.790 % 41-Nb-92



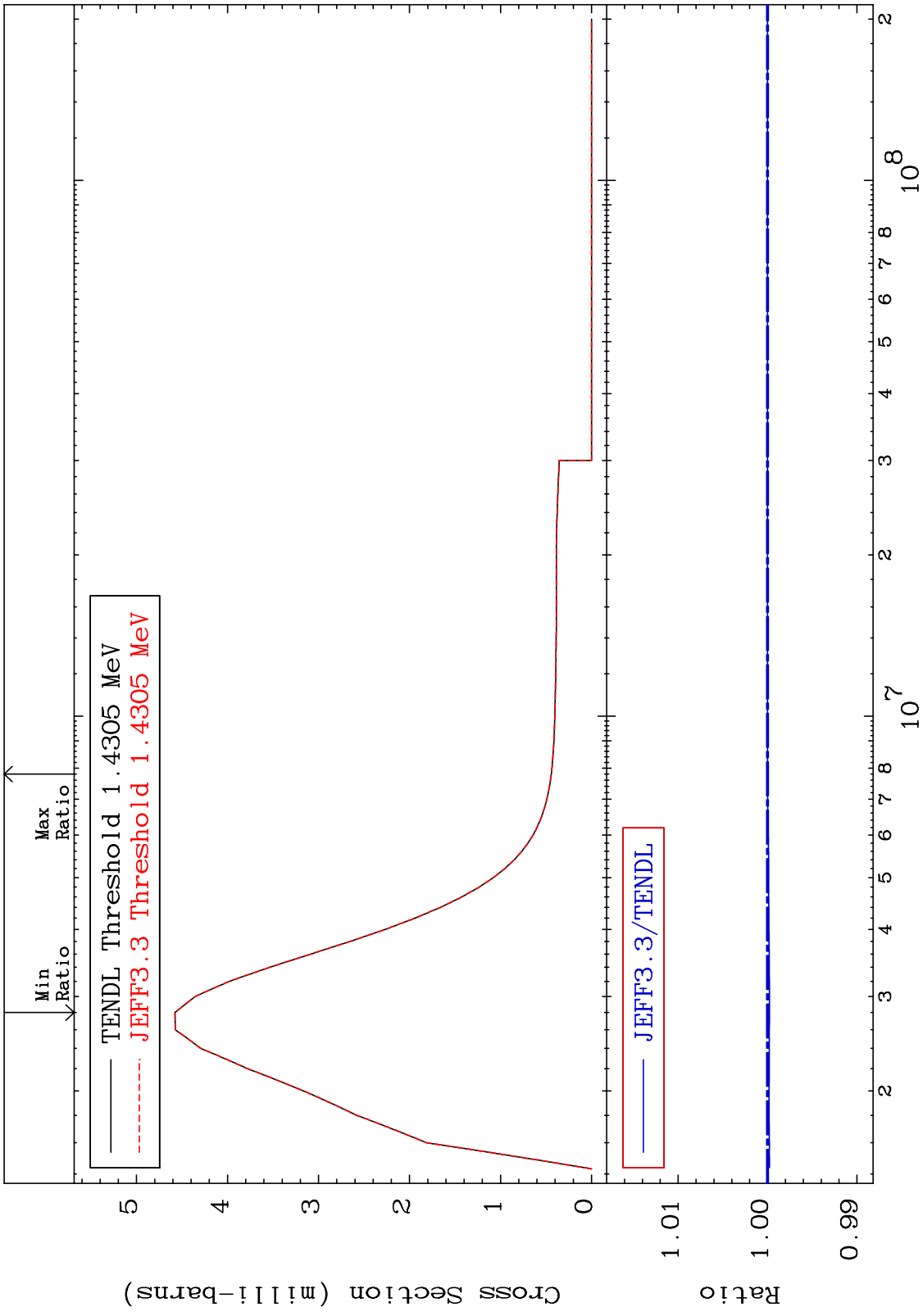
MAT 4122 MT= 66 (n,n') Level Cross Section -0.032 To 0.800 % 41-Nb-92



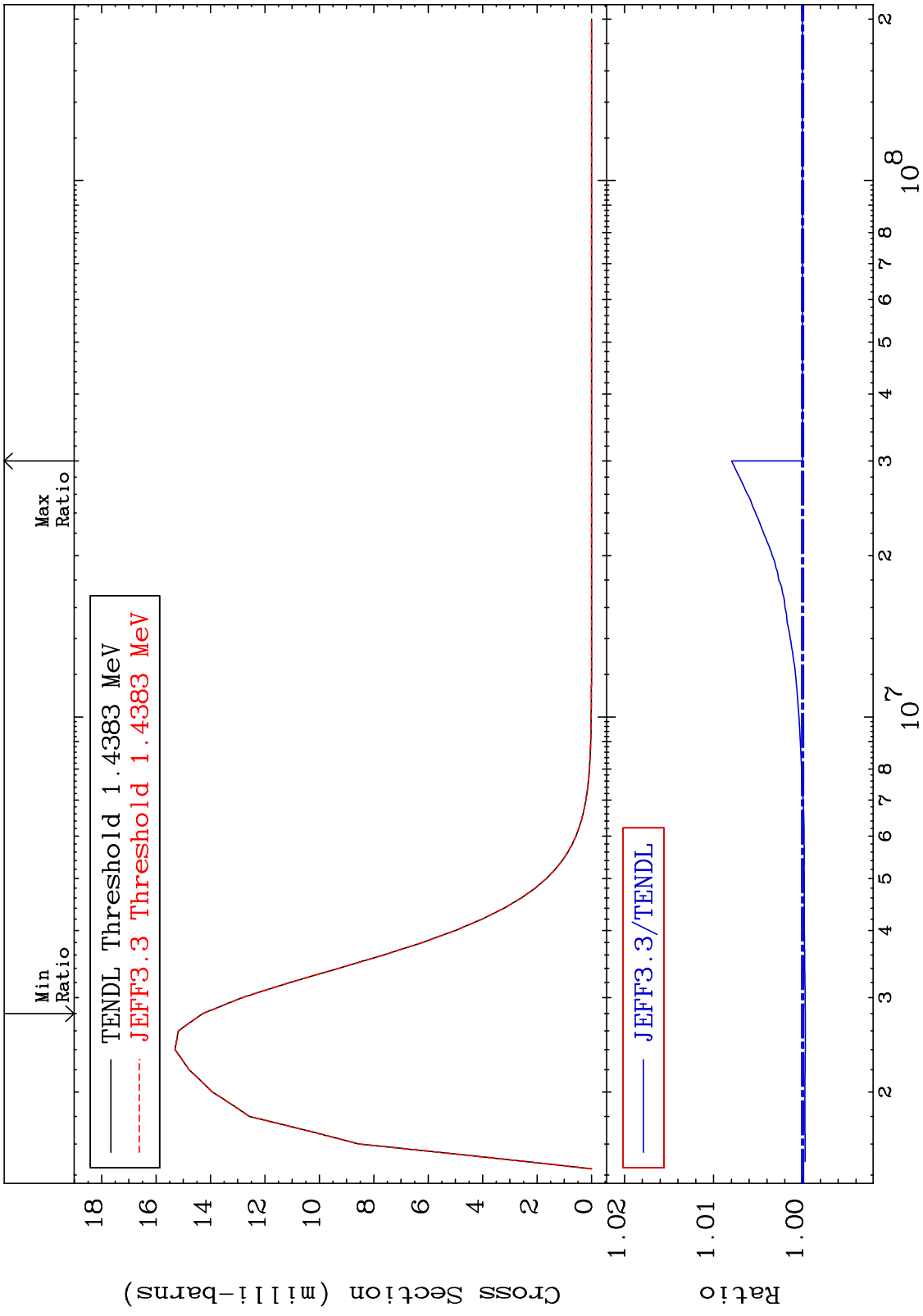
MAT 4122 MT= 67 (n,n') Level Cross Section 41-Nb-92 -0.032 To 0.800 %



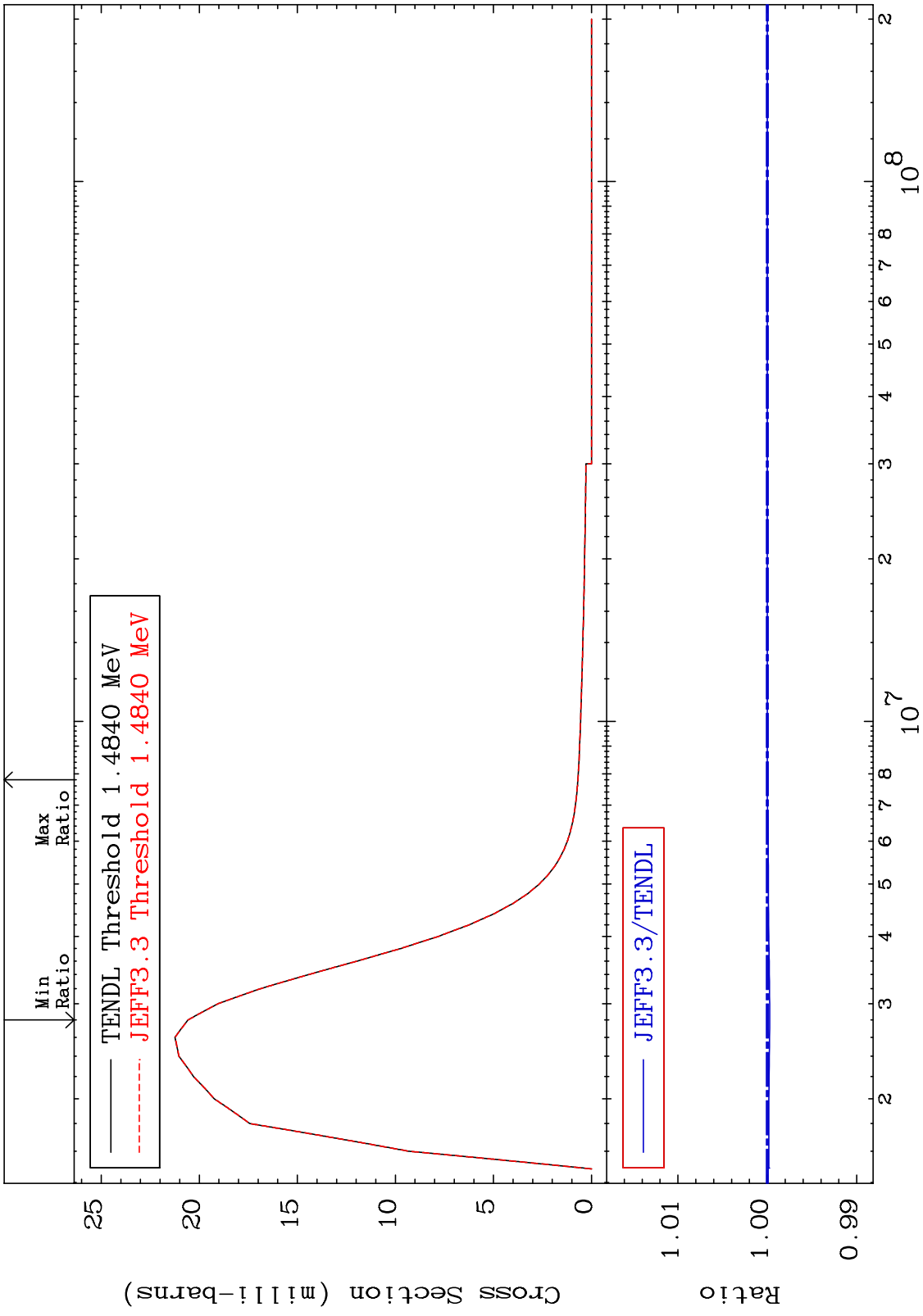
MAT 4122 MT= 68 (n,n') Level Cross Section 41-Nb-92 -0.021 To 0.001 %



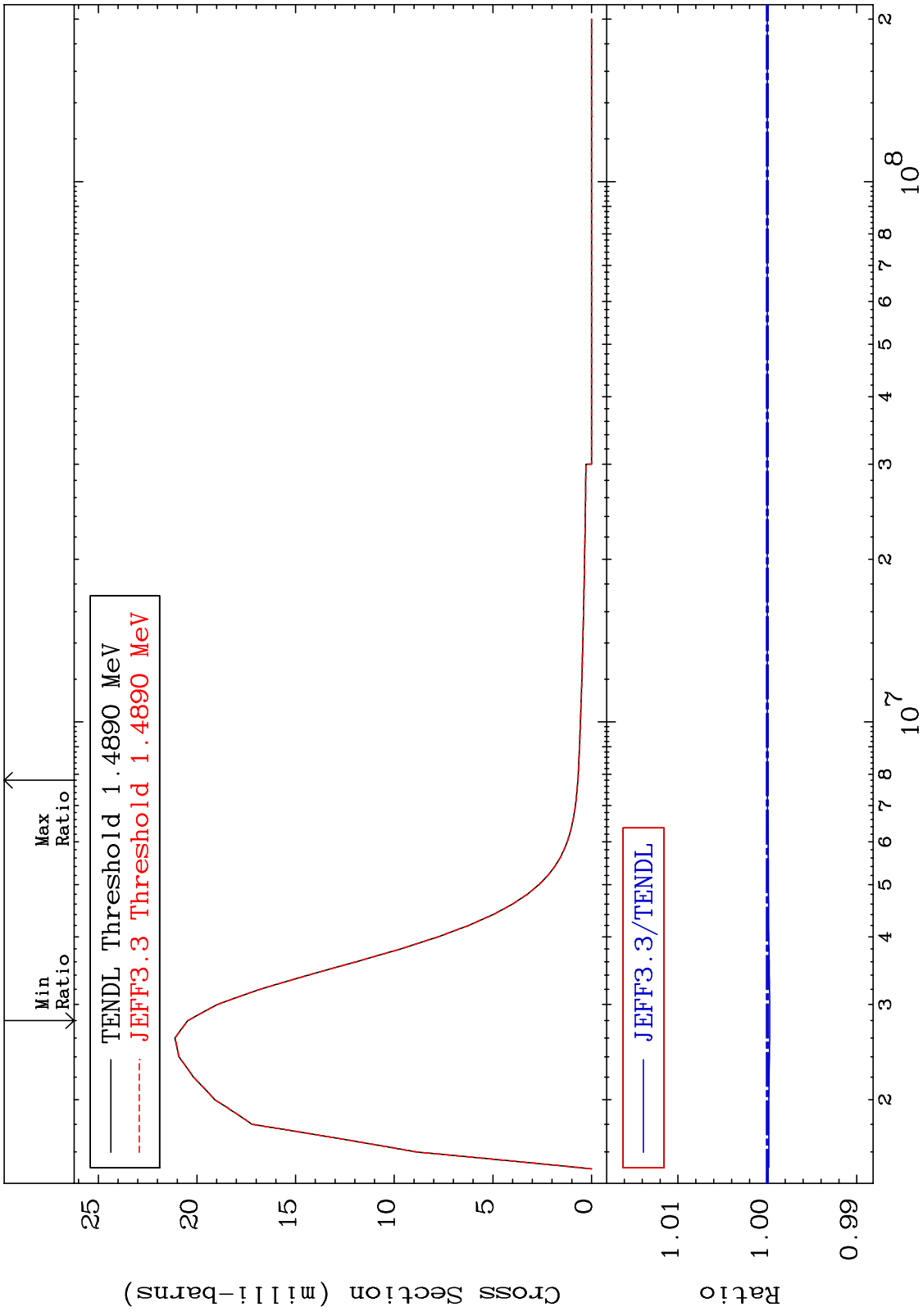
MAT 4122 MT= 69 (n,n') Level Cross Section -0.030 To 0.797 % 41-Nb-92



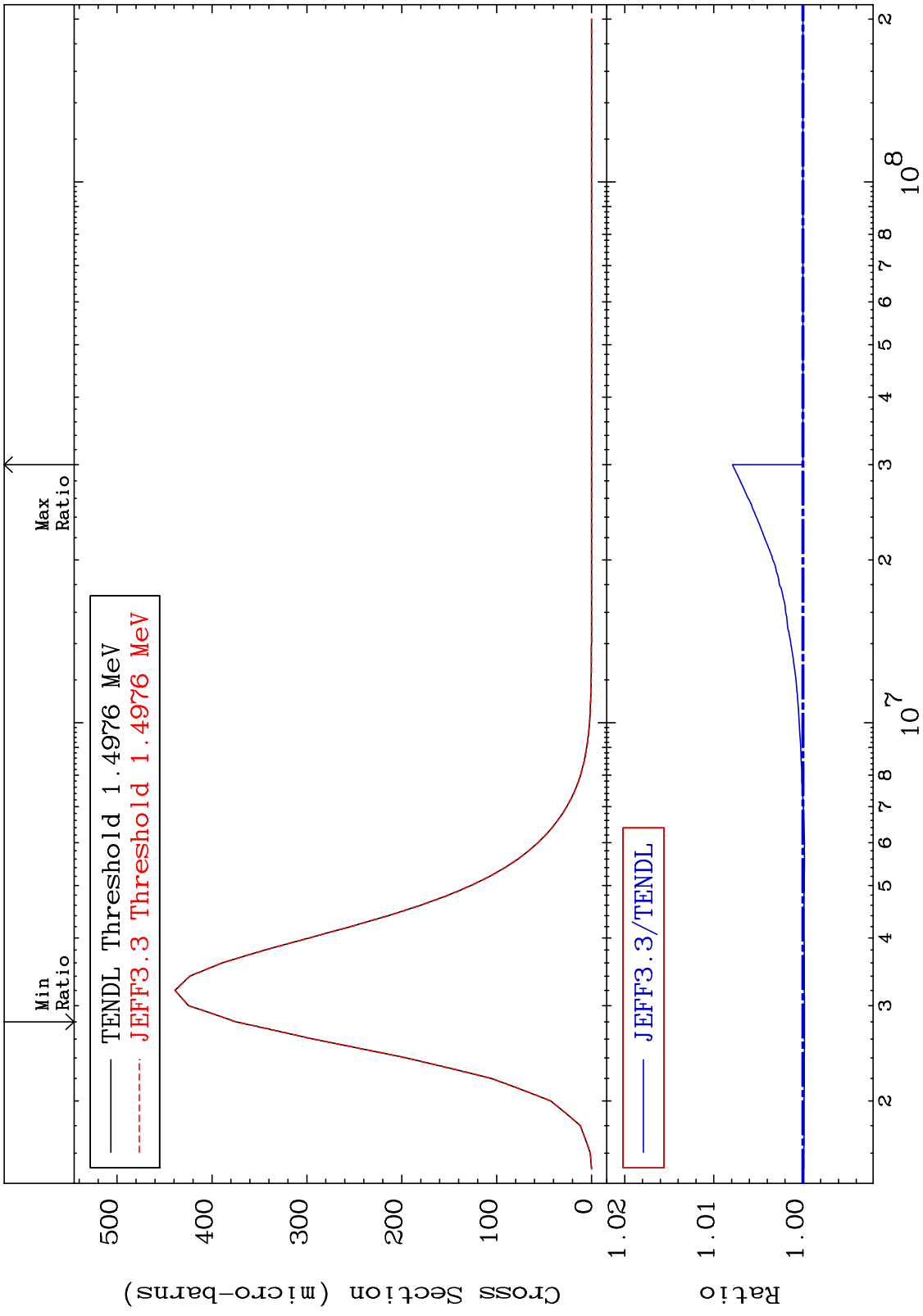
MAT 4122 MT= 70 (n,n') Level Cross Section 41-Nb-92 -0.026 To 0.001 %



MAT 4122 MT= 71 (n,n') Level Cross Section 41-Nb-92 -0.025 To 0.001 %



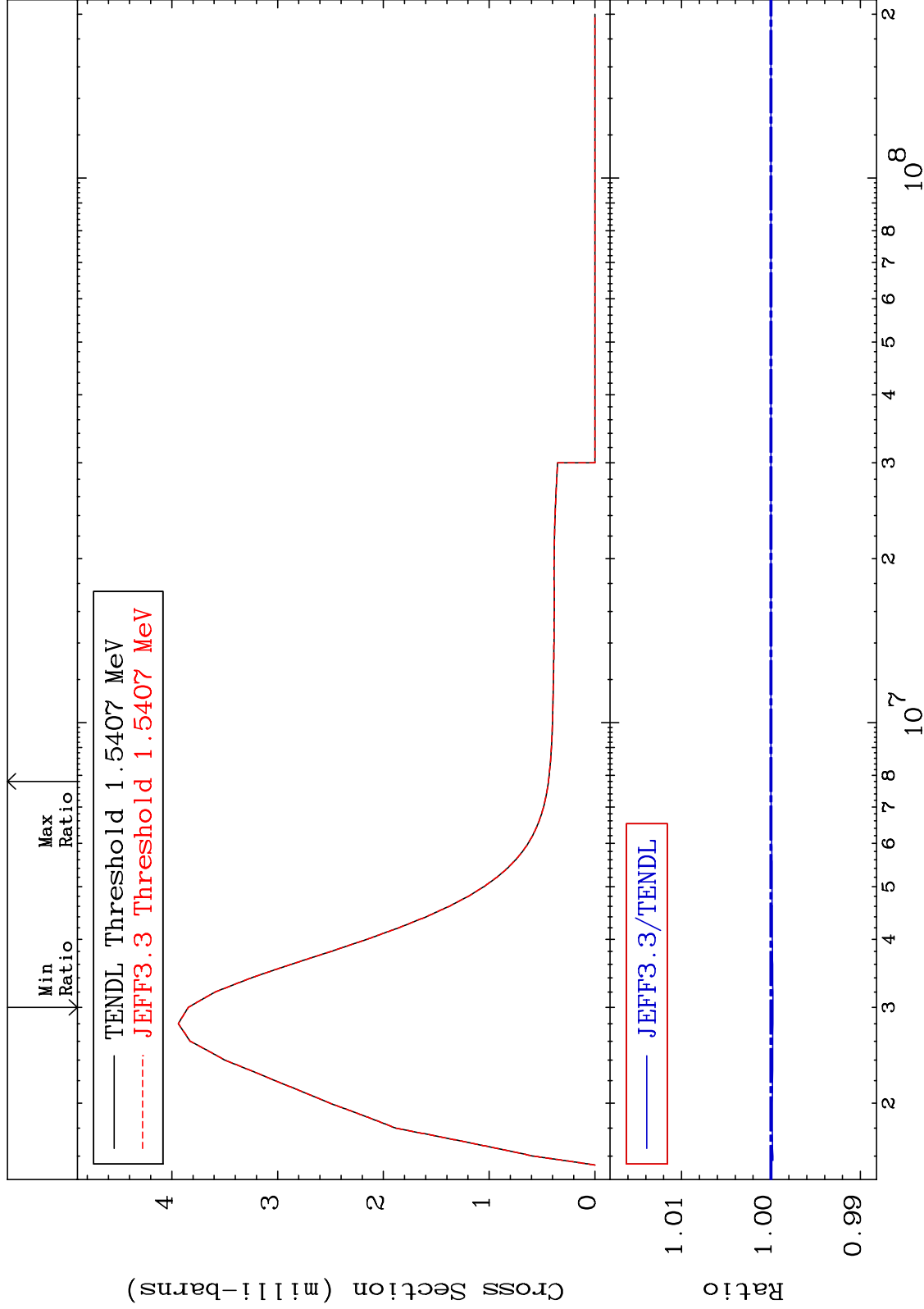
MAT 4122 MT= 72 (n,n') Level Cross Section 41-Nb-92
 -0.018 To 0.791 %



MAT 4122

MT= 73 (n,n') Level
Cross Section

41-Nb-92
-0.021 To 0.001 %

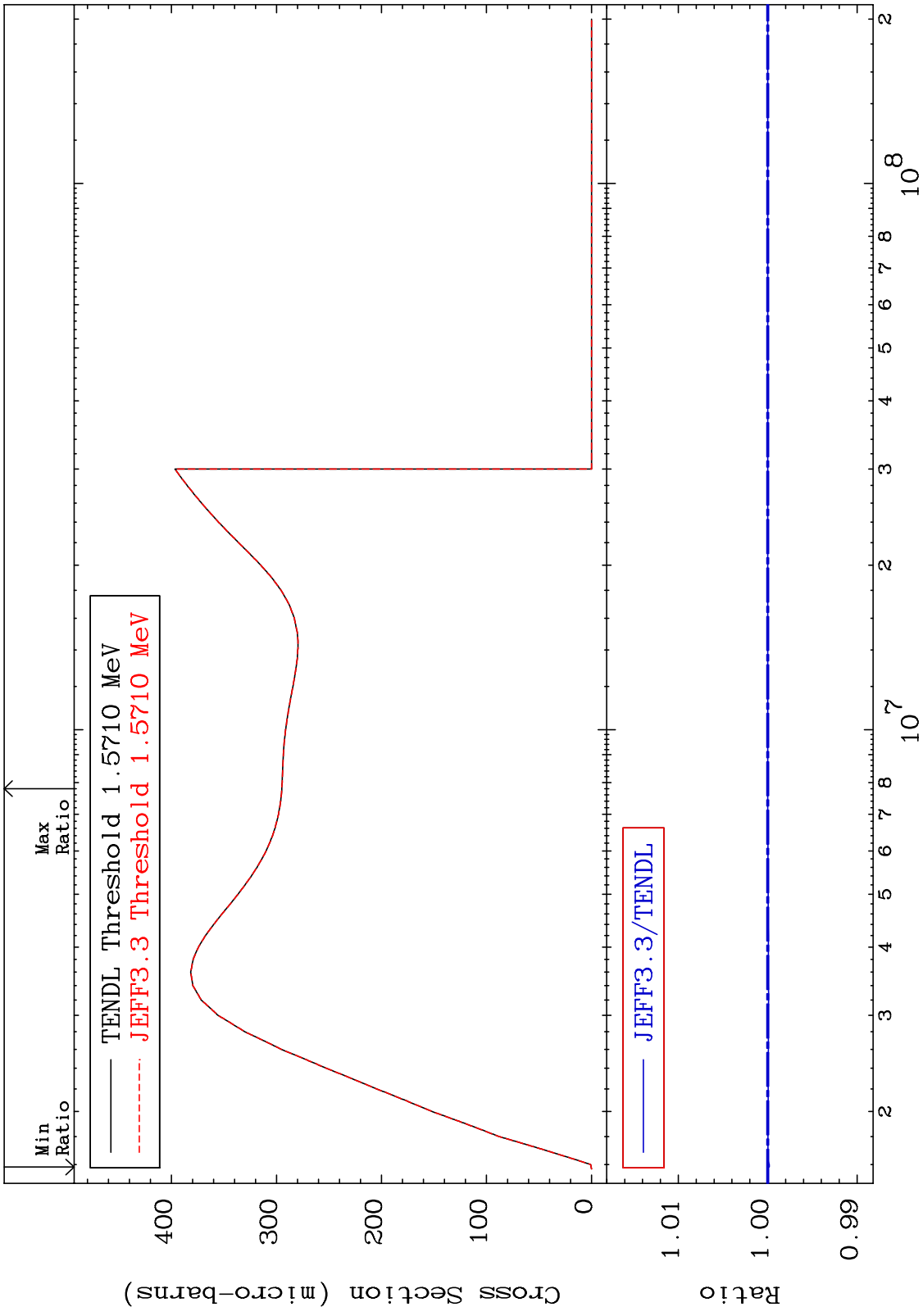


40

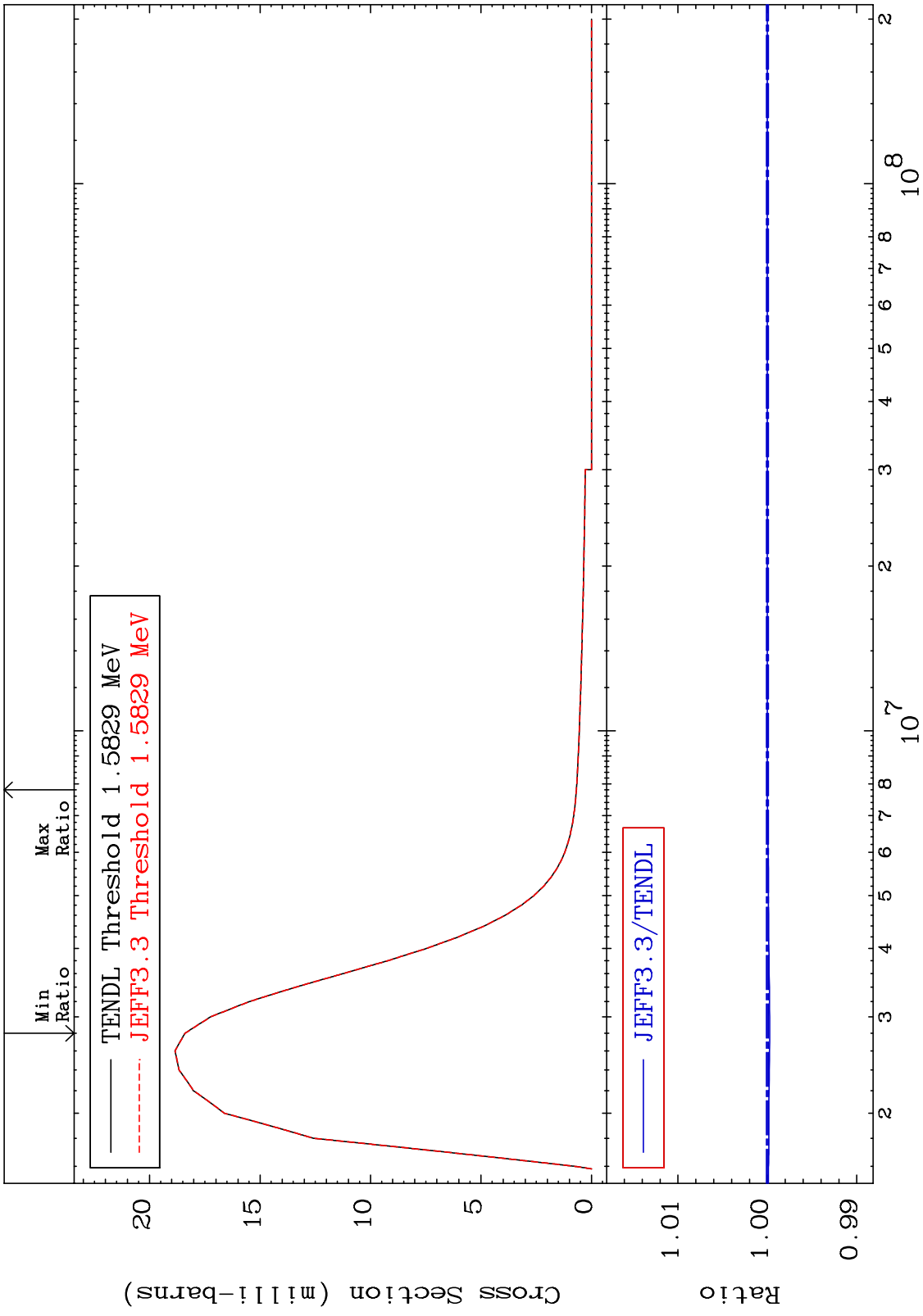
Incident Energy (eV)

41-Nb-92

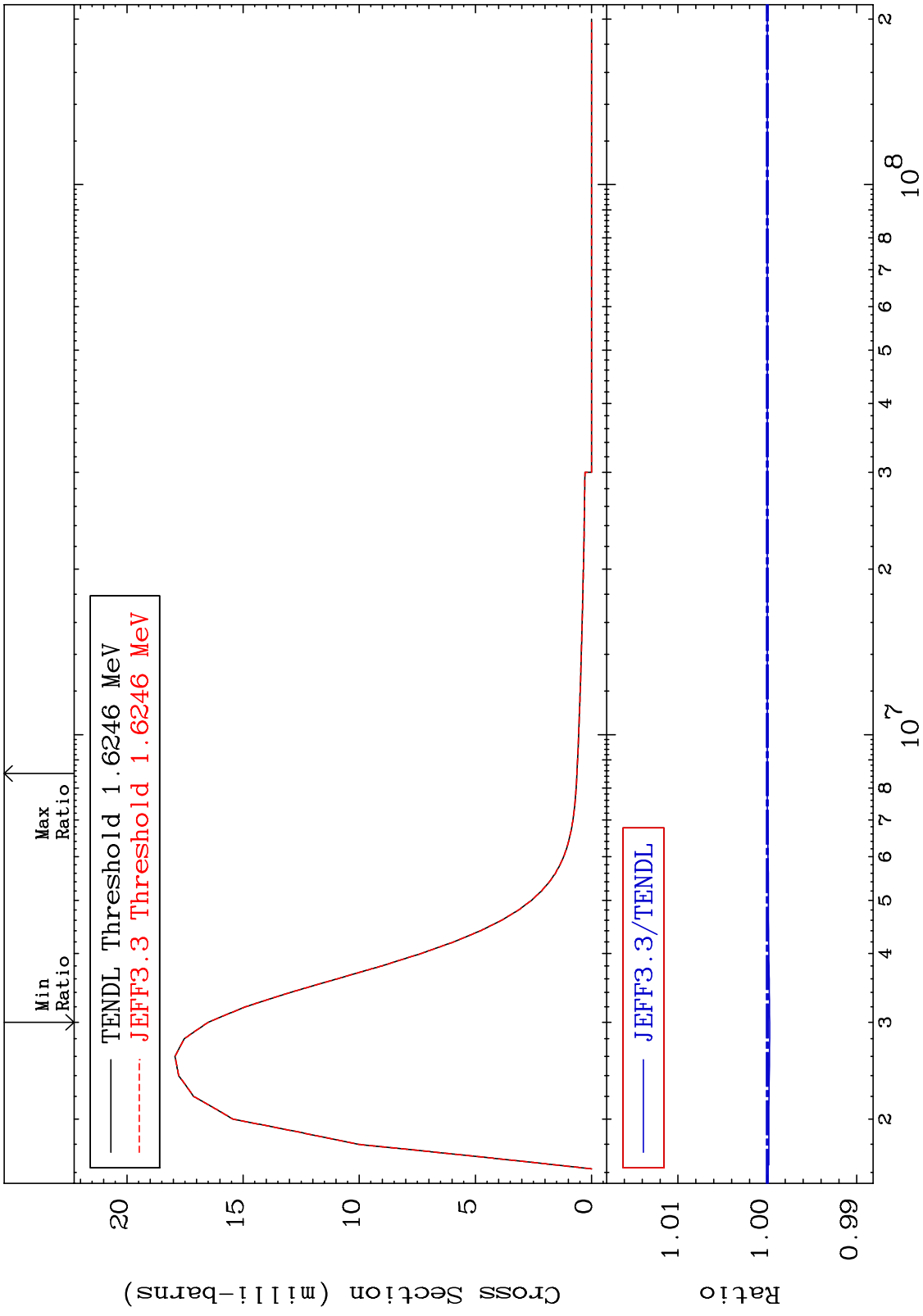
MAT 4122 MT= 74 (n,n') Level Cross Section 41-Nb-92 -0.017 To 0.000 %



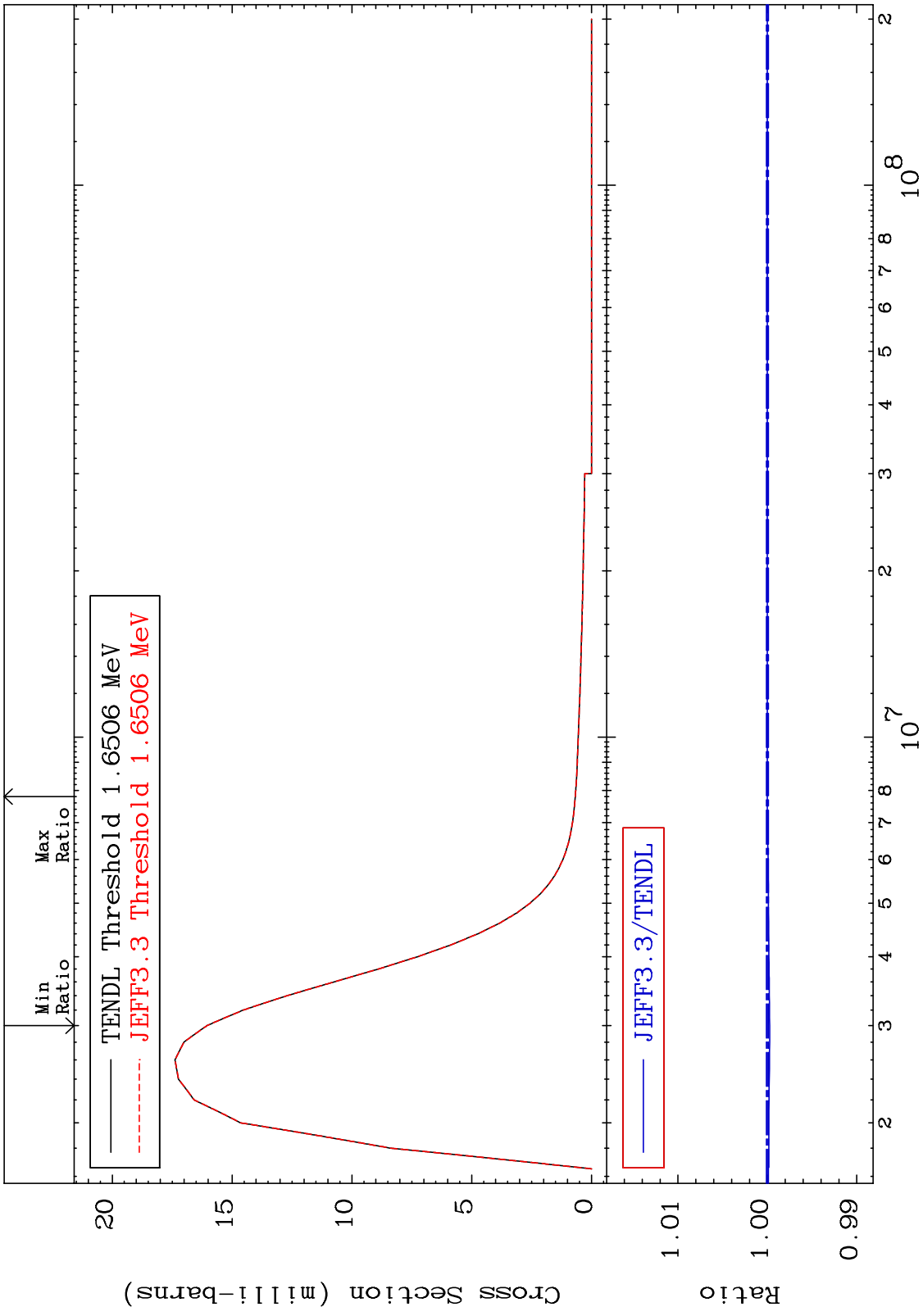
MAT 4122 MT= 75 (n,n') Level Cross Section 41-Nb-92 -0.025 To 0.001 %



MAT 4122 MT= 76 (n,n') Level Cross Section 41-Nb-92 -0.025 To 0.001 %



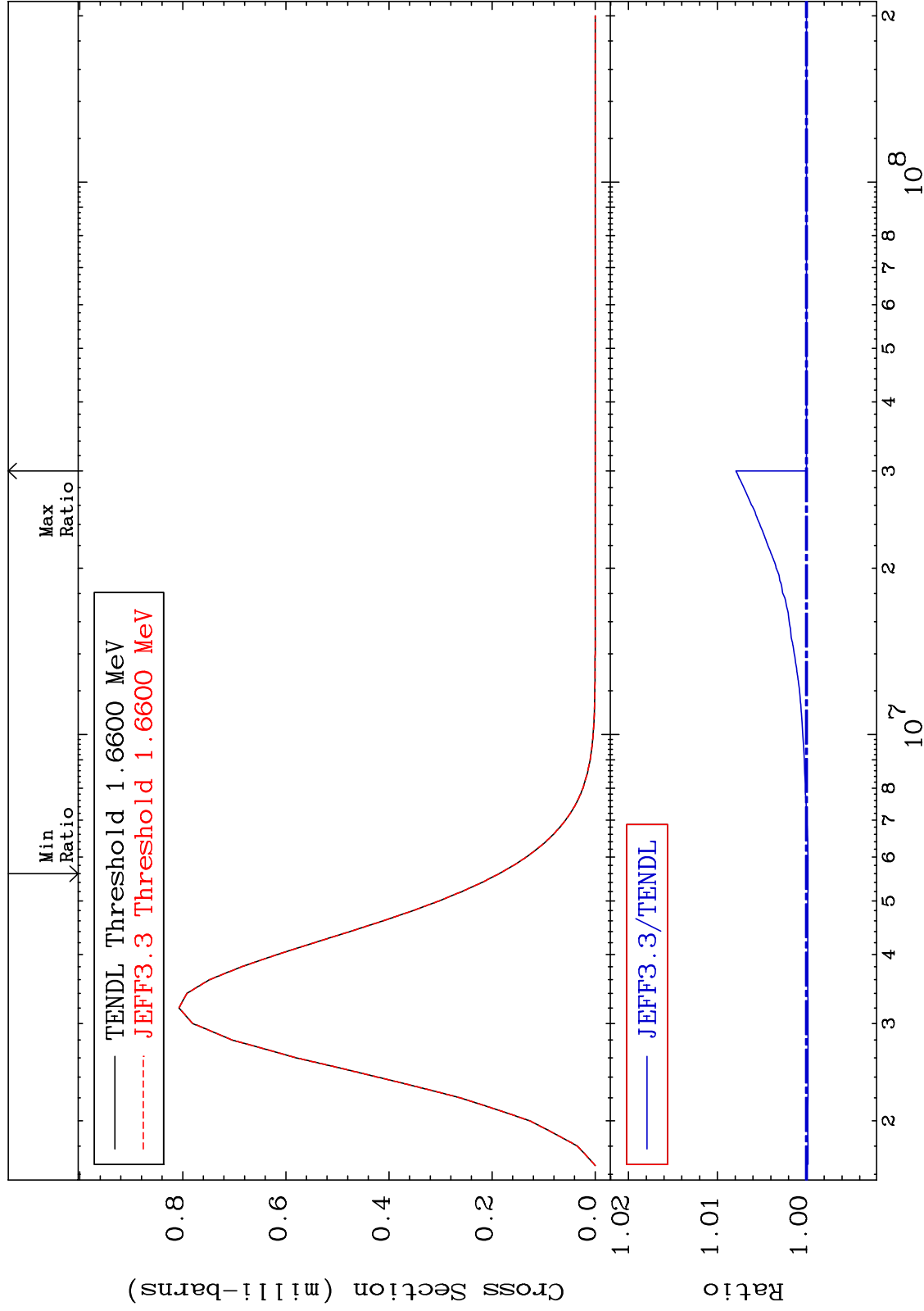
MAT 4122 MT= 77 (n,n') Level Cross Section -0.025 To 0.001 % 41-Nb-92



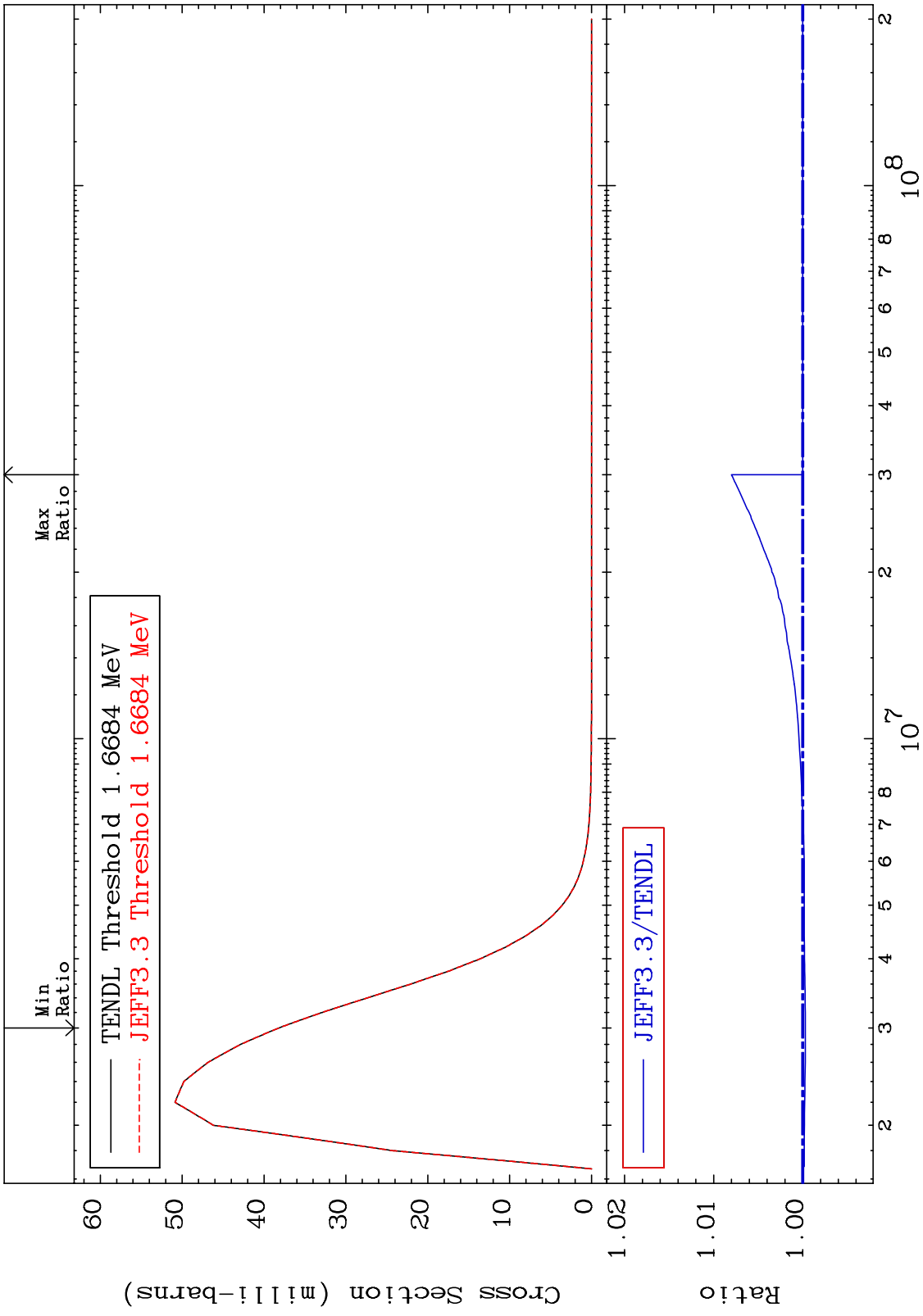
MAT 4122

MT= 78 (n,n') Level
Cross Section

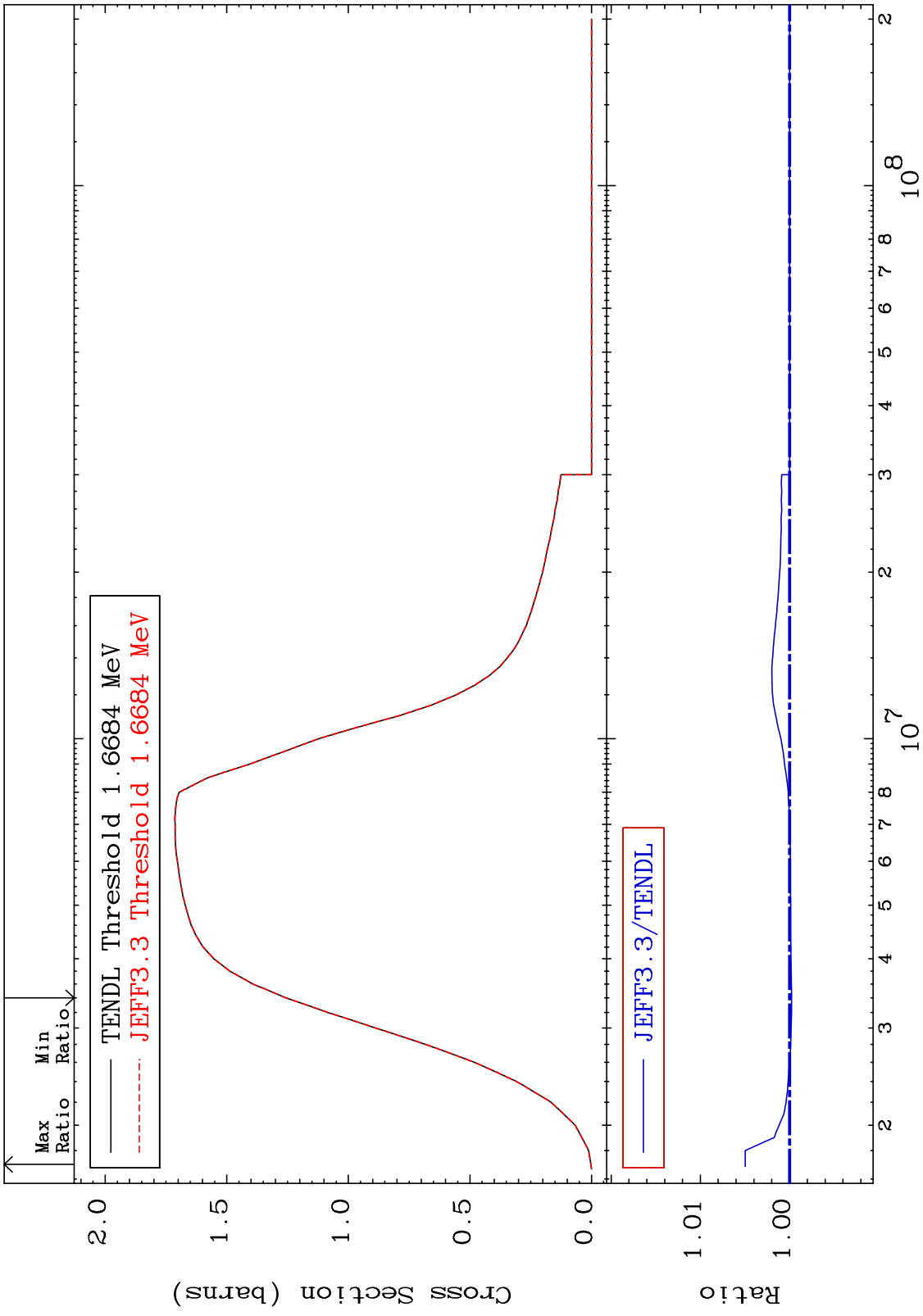
41-Nb-92
-0.018 To 0.792 %



MAT 4122 MT= 79 (n,n') Level Cross Section 41-Nb-92
 -0.030 To 0.800 %



MAT 4122 (n,n') Continuum Cross Section 41-Nb-92 -0.023 To 0.496 %



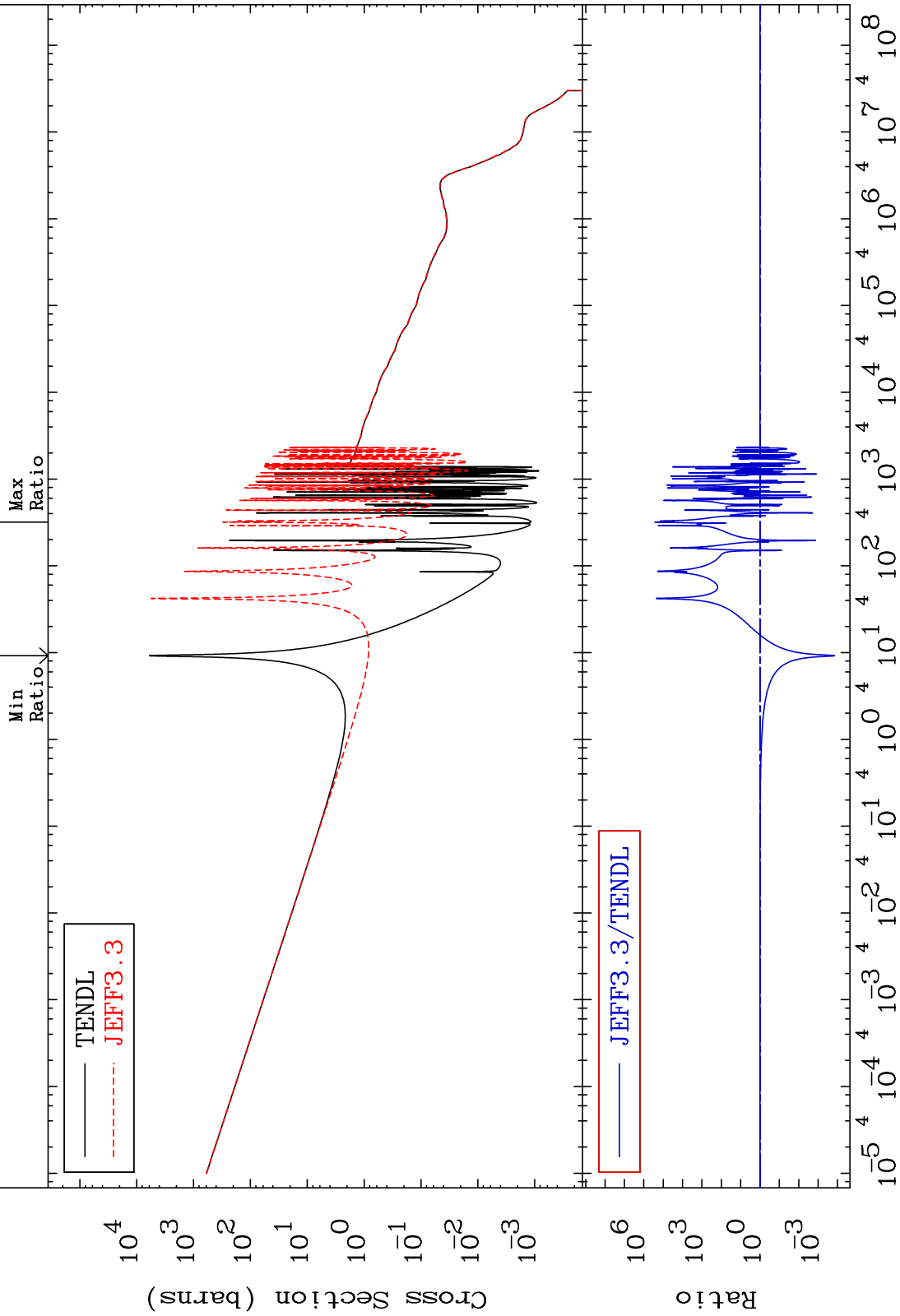
MAT 4122

41-Nb-92

-99.99 To 9999. %

(n, γ)

Cross Section

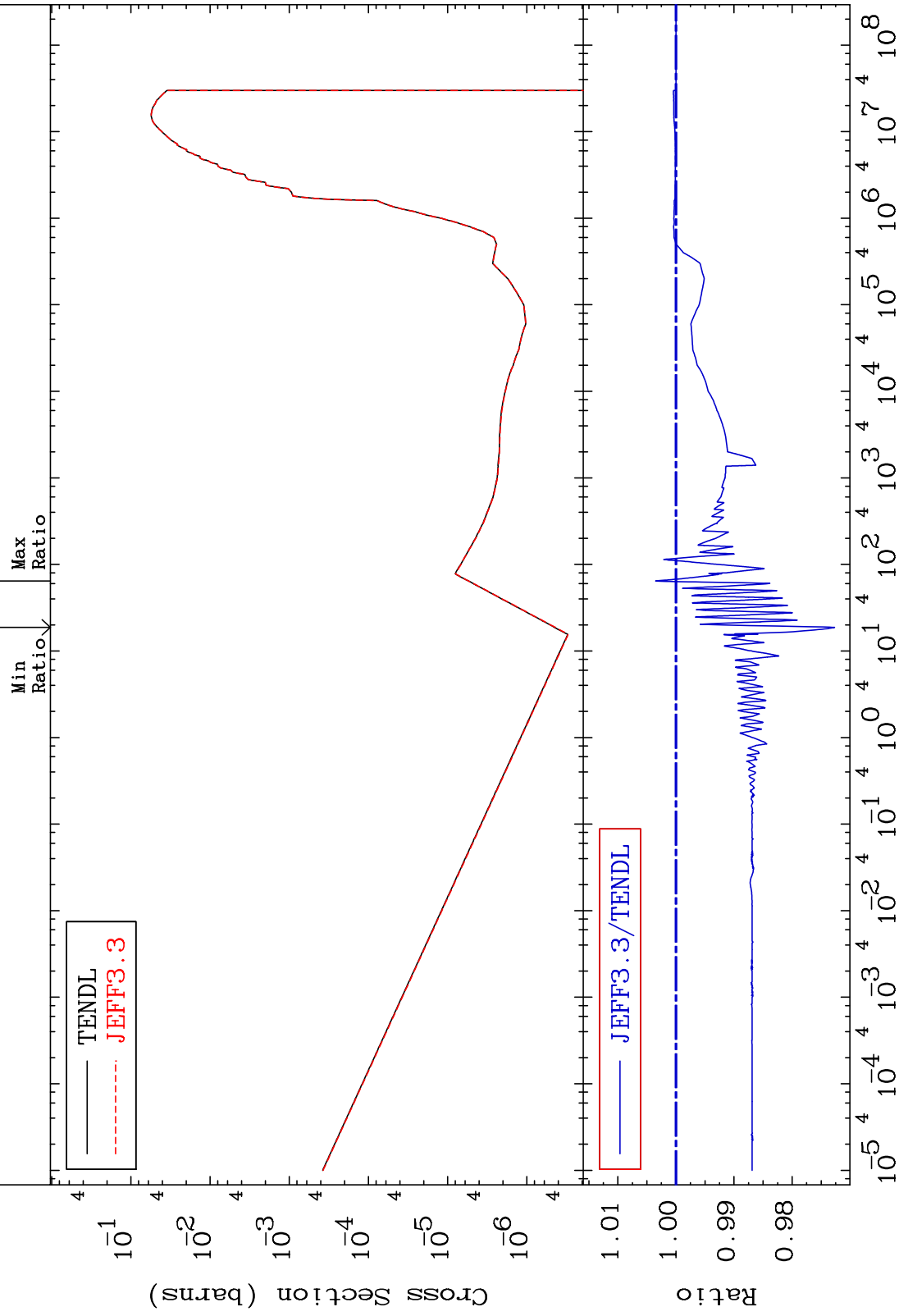


MAT 4122

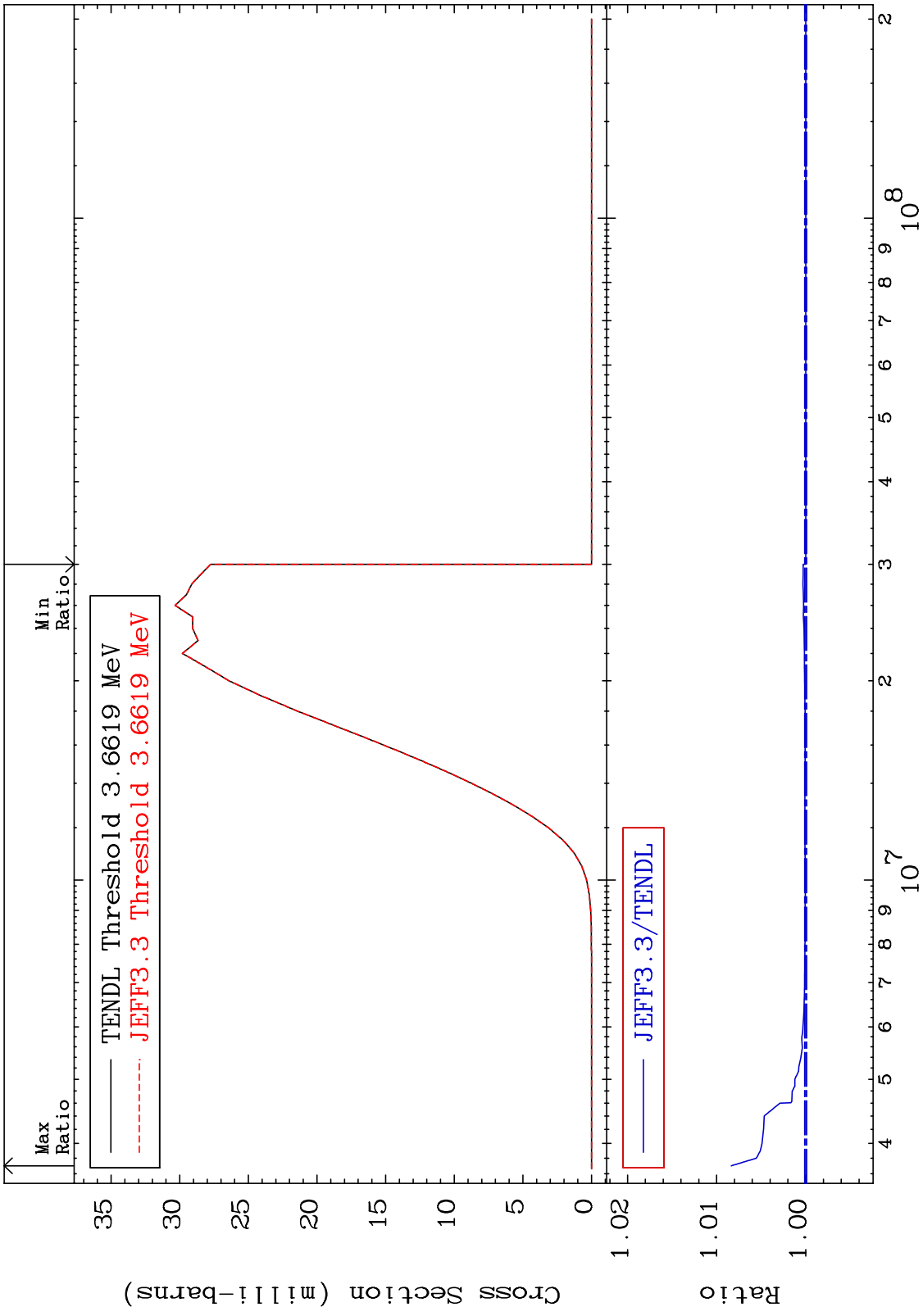
41-Nb-92

-2.732 To 0.349 %

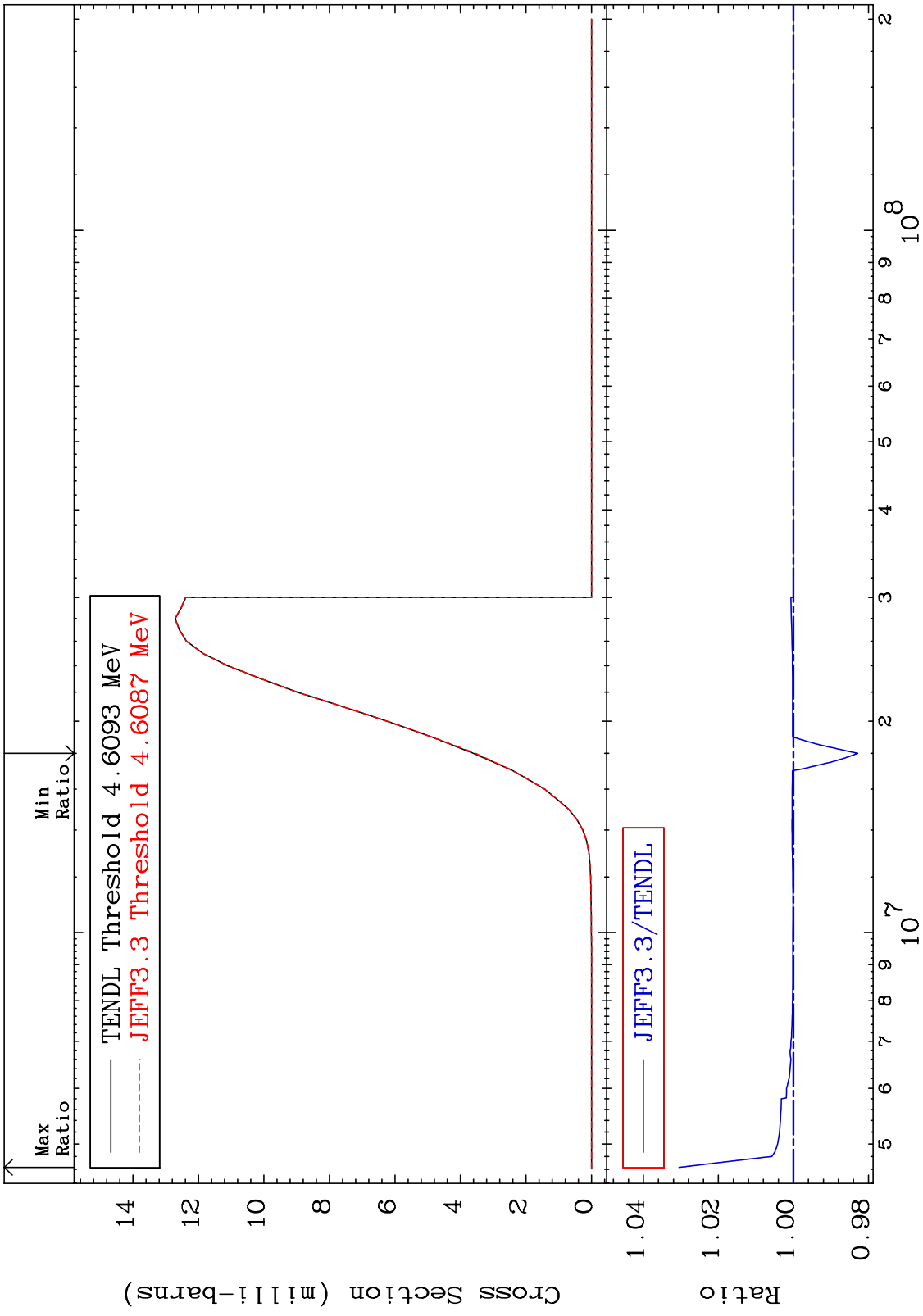
(n,p)
Cross Section



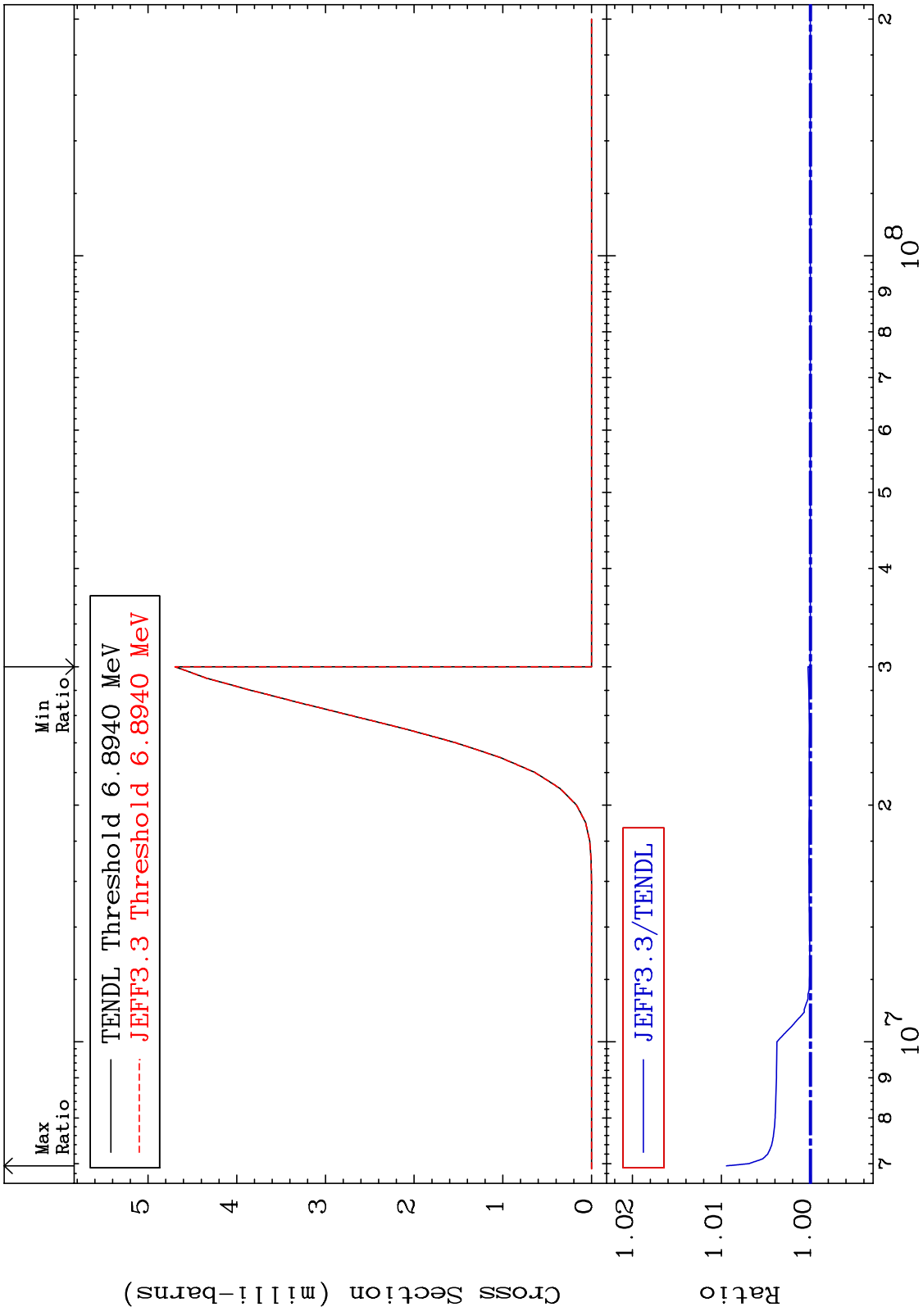
MAT 4122 (n,d) Cross Section 41-Nb-92 To 0.836 %



MAT 4122 (n,t) 41-Nb-92
 Cross Section -1.718 To 3.050 %



MAT 4122 (n, He-3) Cross Section 41-Nb-92 To 0.944 %



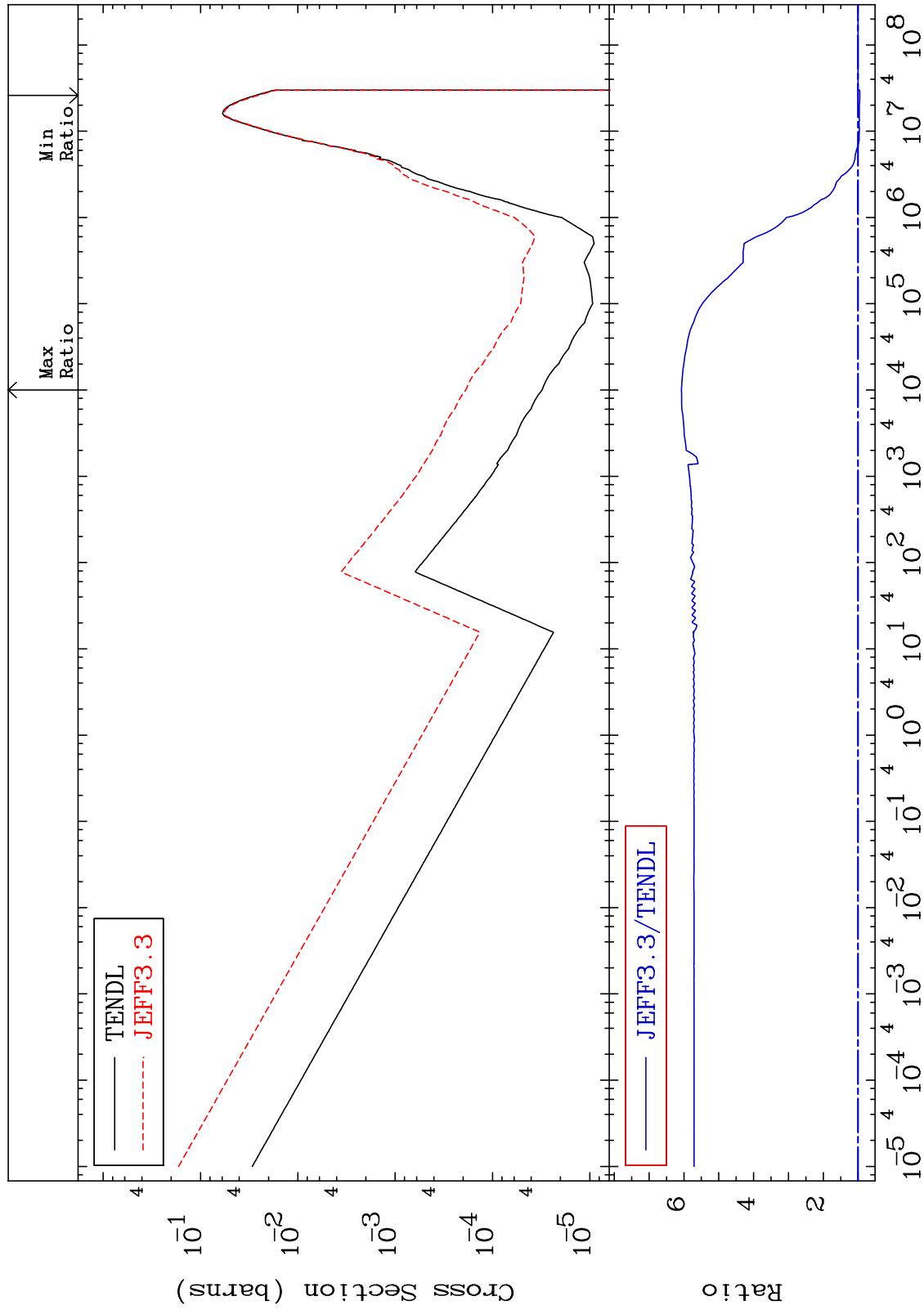
MAT 4122

(n, α)

41-Nb-92

Cross Section

-4.877 To 507.1 %



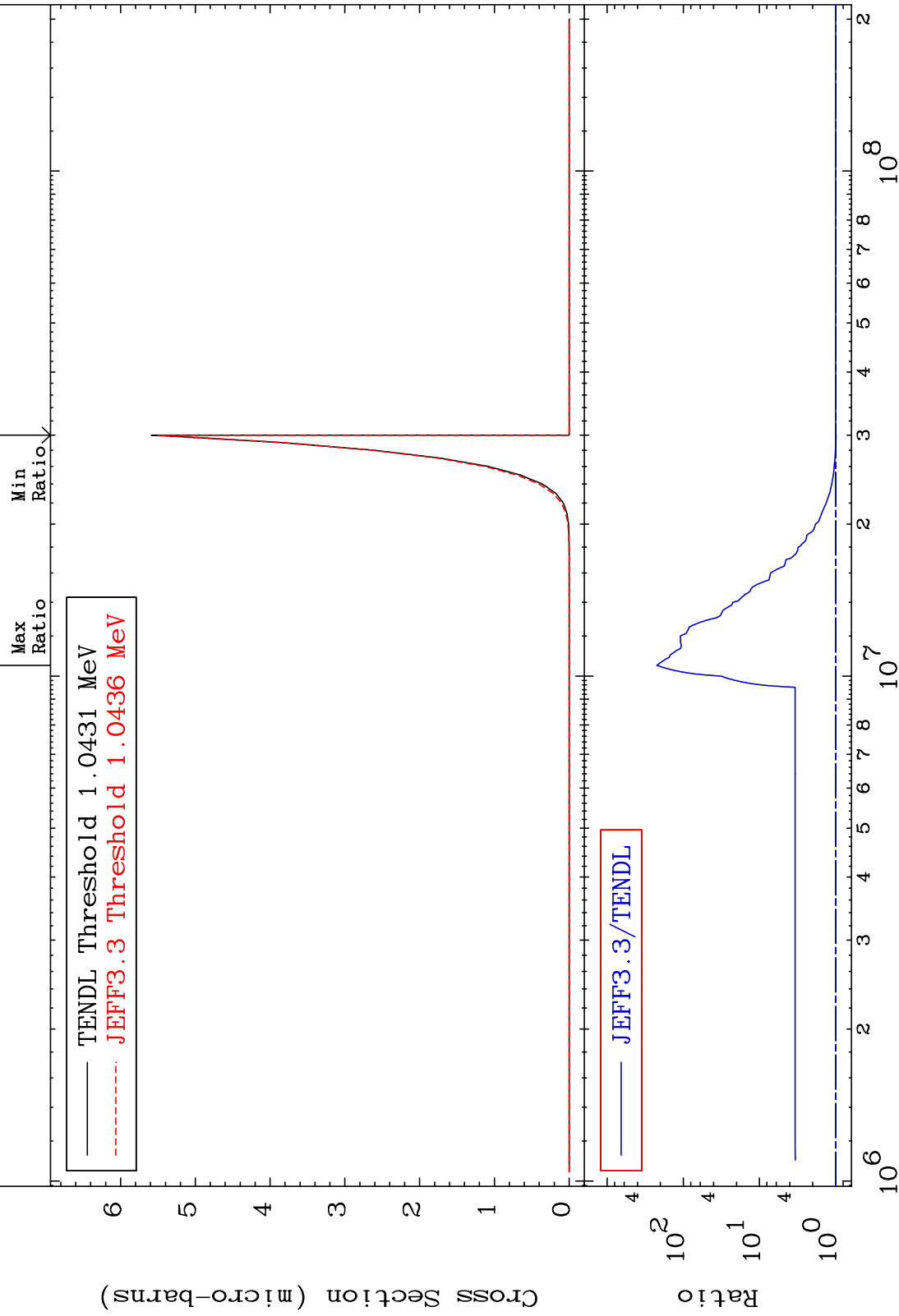
MAT 4122

(n,2α)

41-Nb-92

-1.545 To 9999. %

Cross Section

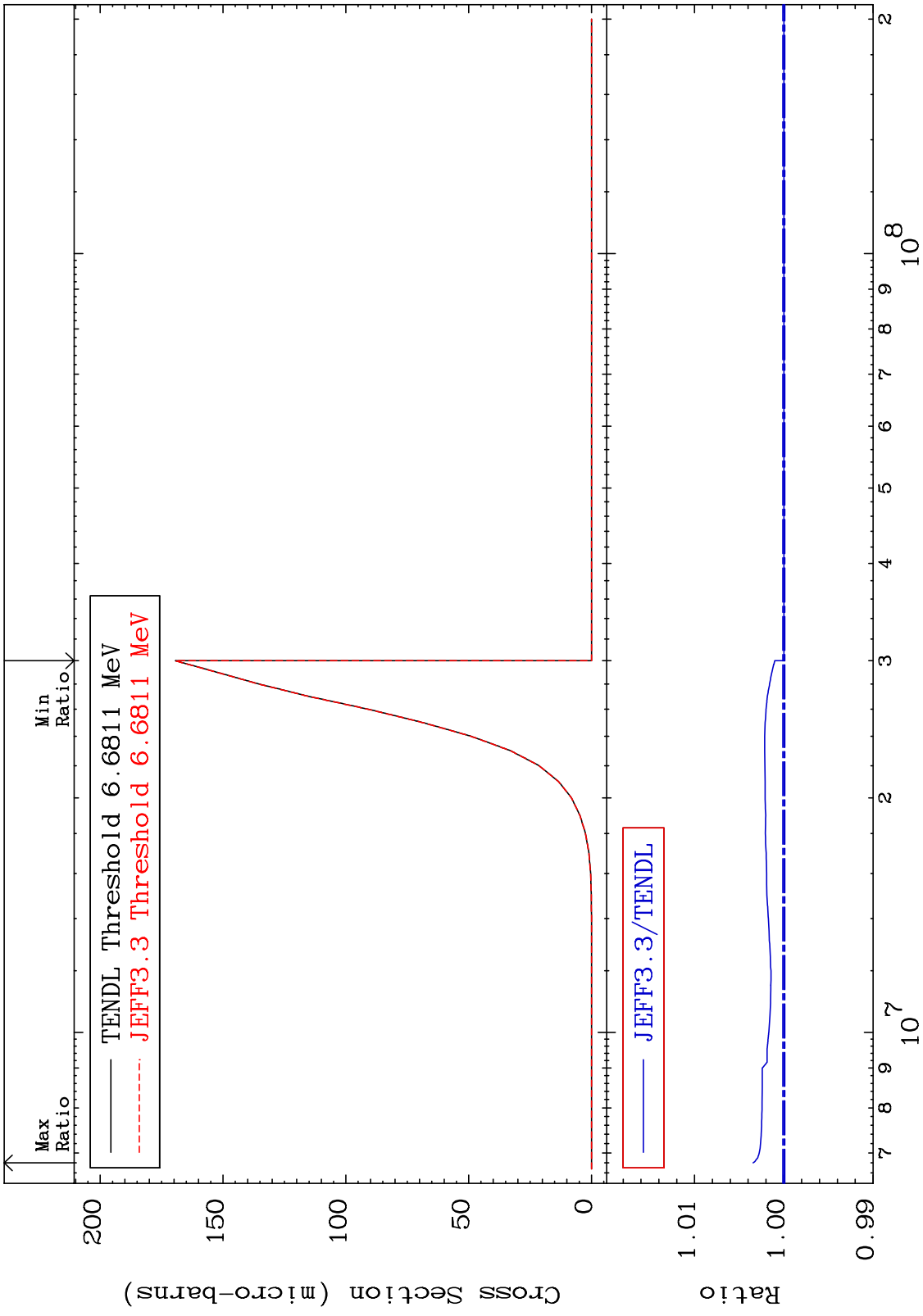


54

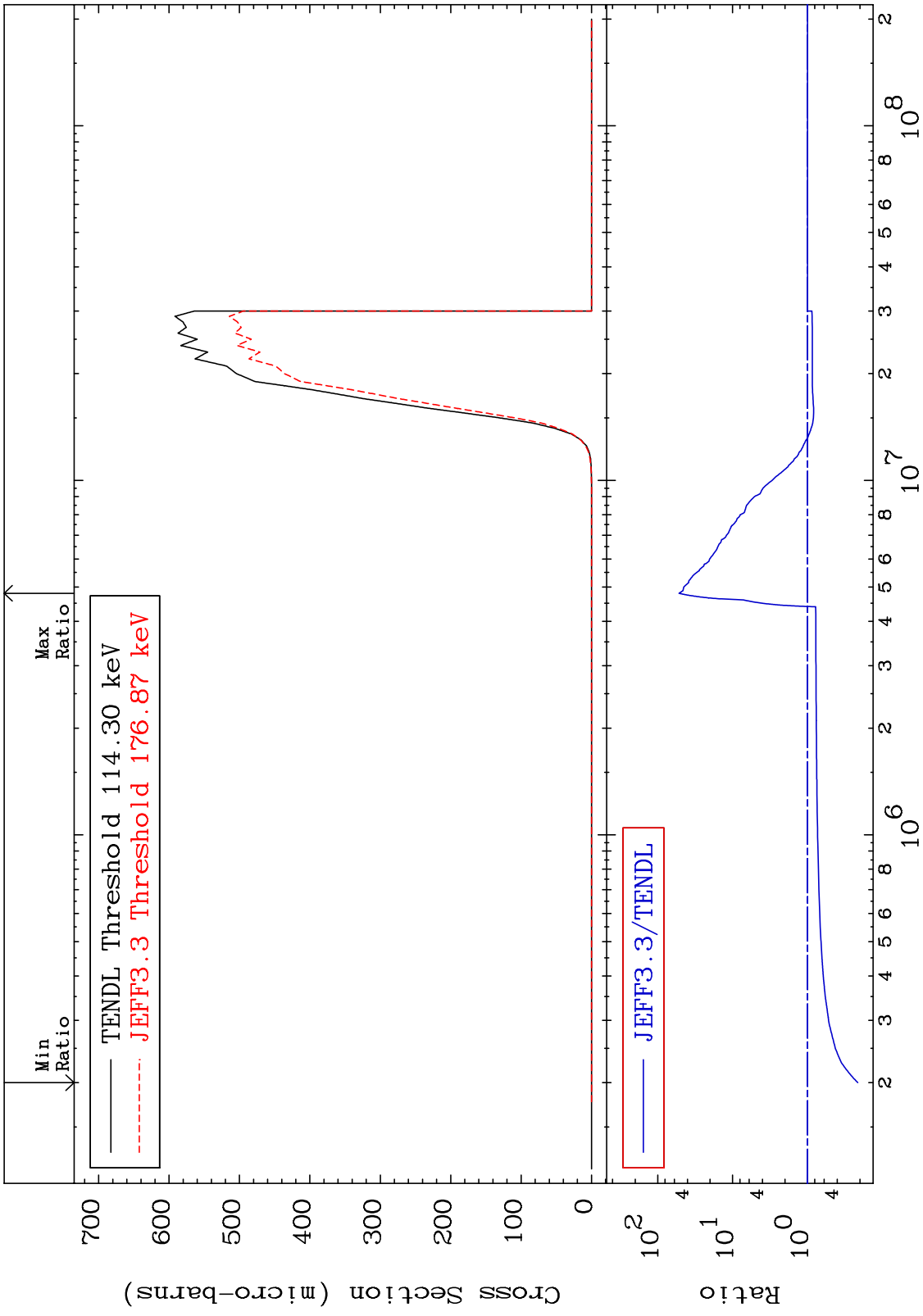
Incident Energy (eV)

41-Nb-92

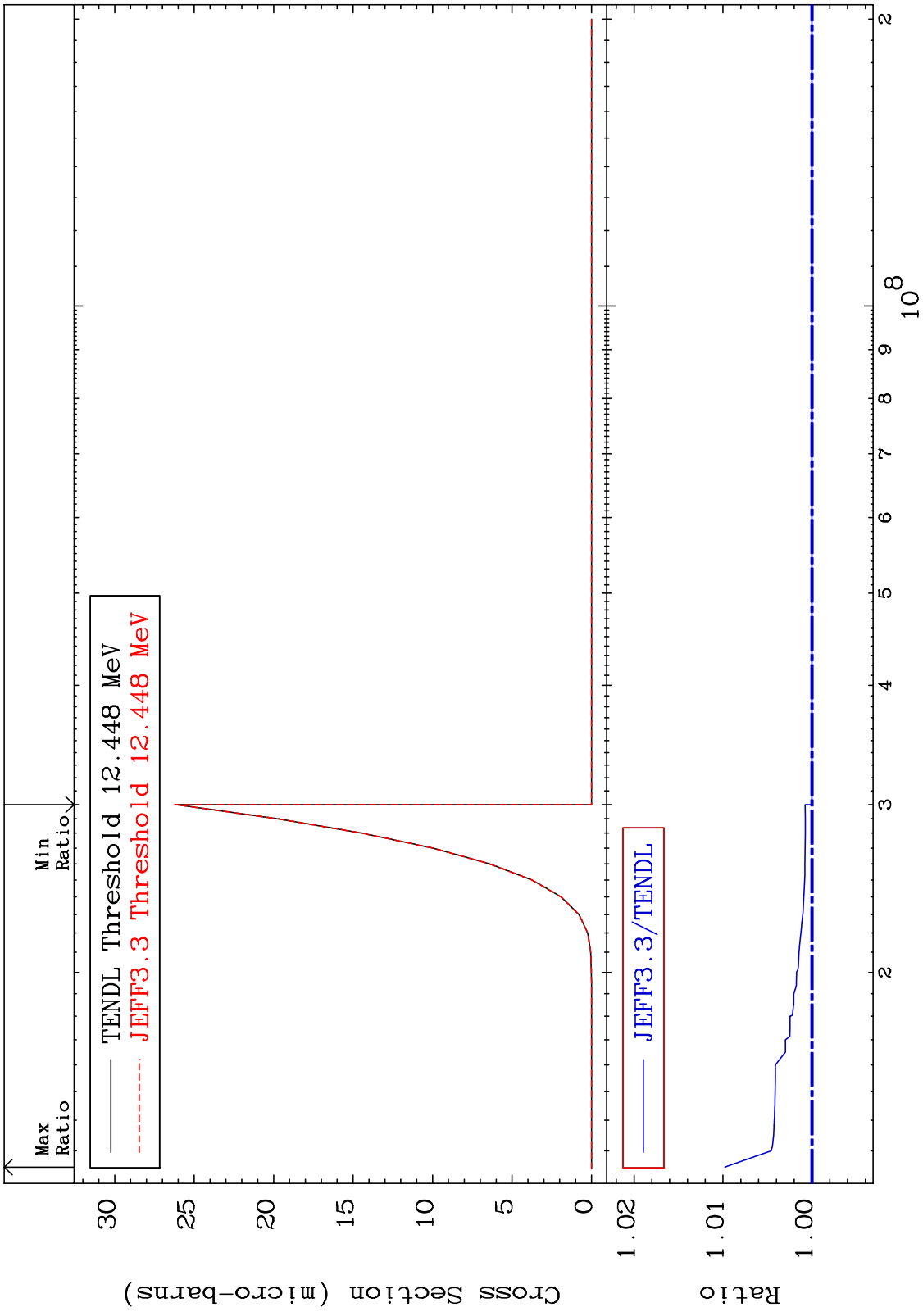
MAT 4122 (n,2p) Cross Section 41-Nb-92 To 0.344 %



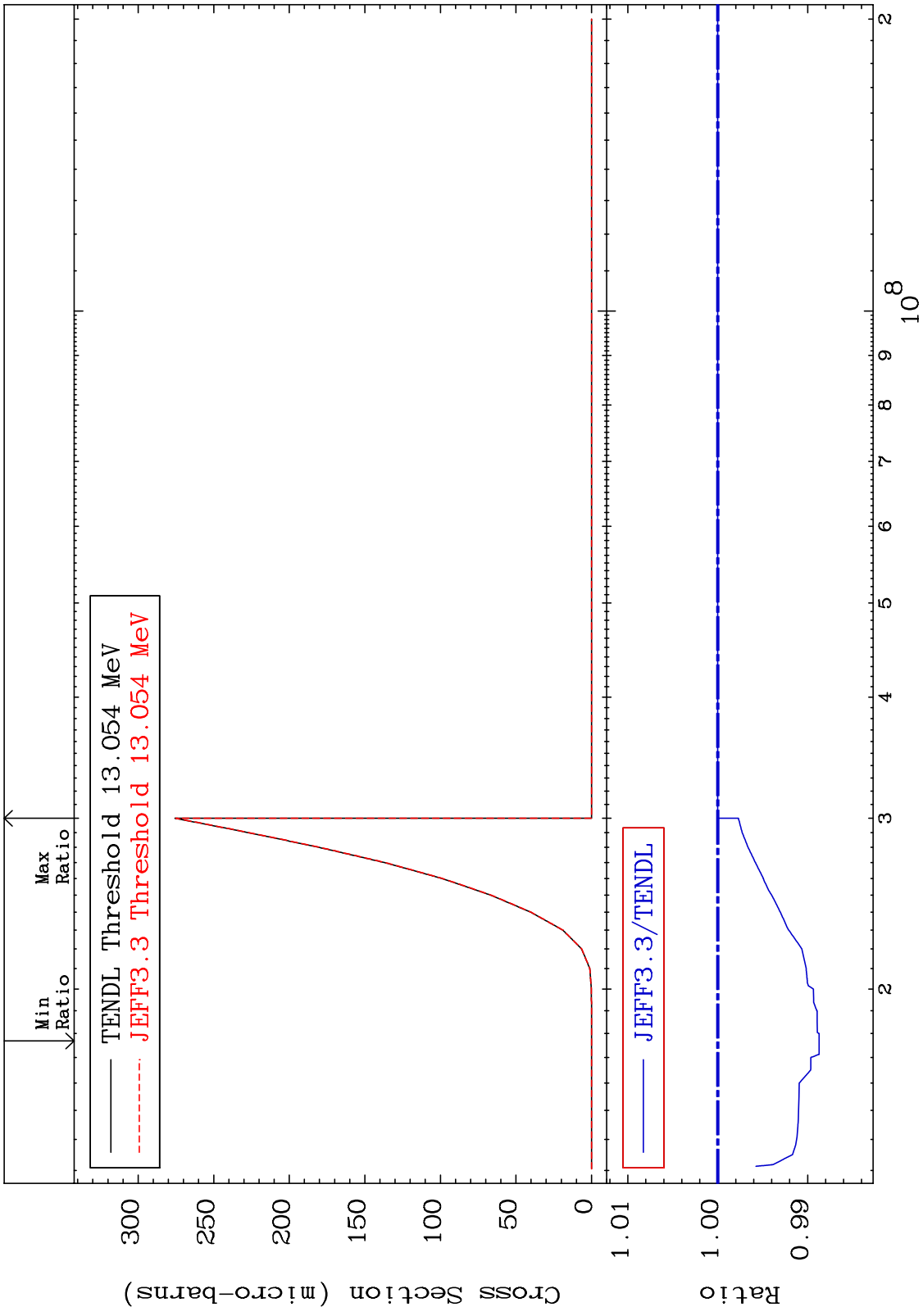
MAT 4122 (n,p) α 41-Nb-92
 Cross Section -78.69 To 5092. %



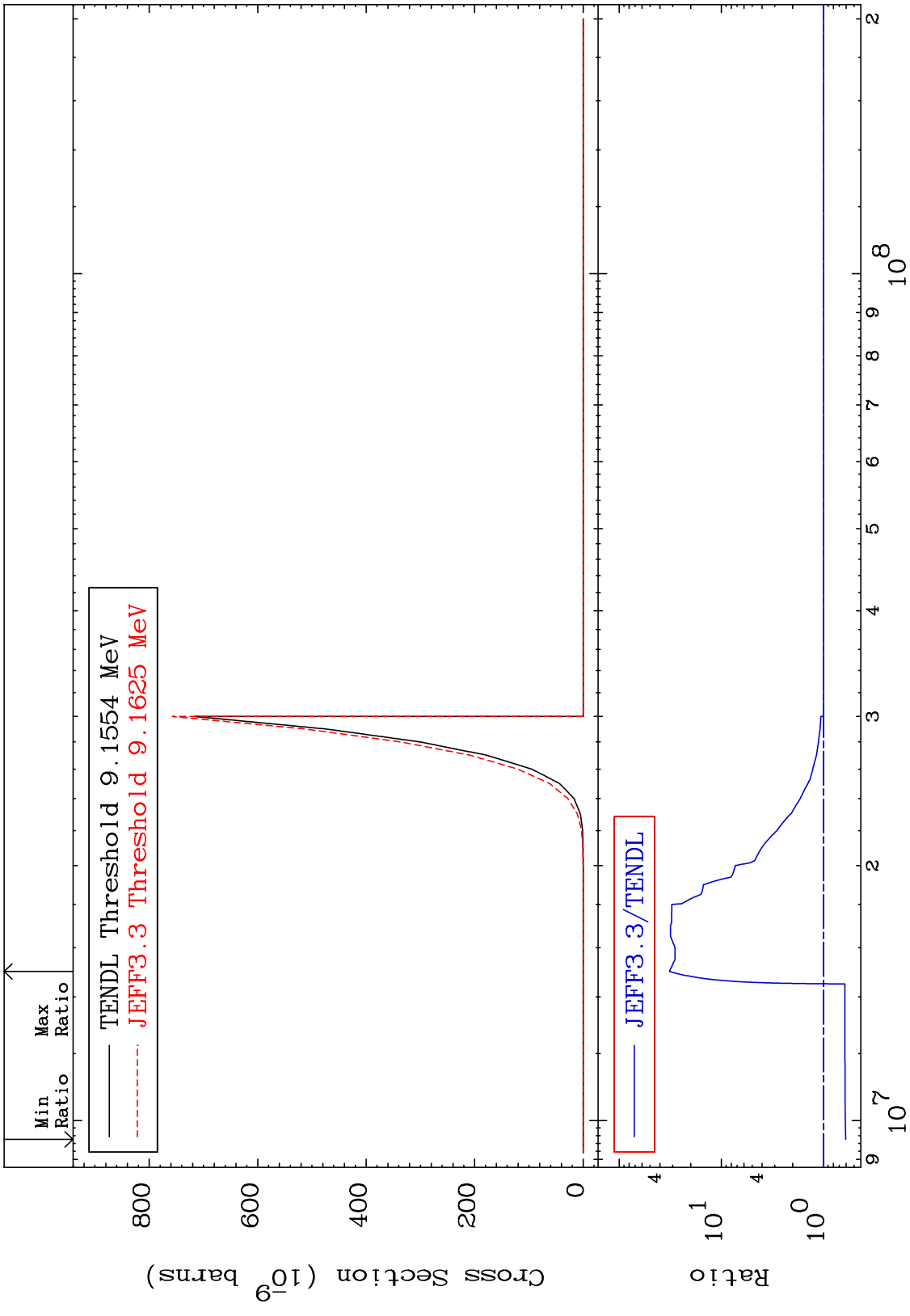
MAT 4122 (n,p) d 41-Nb-92
 Cross Section 0.000 To 0.979 %



MAT 4122 (n,p) t 41-Nb-92
 Cross Section -1.127 To 0.000 %



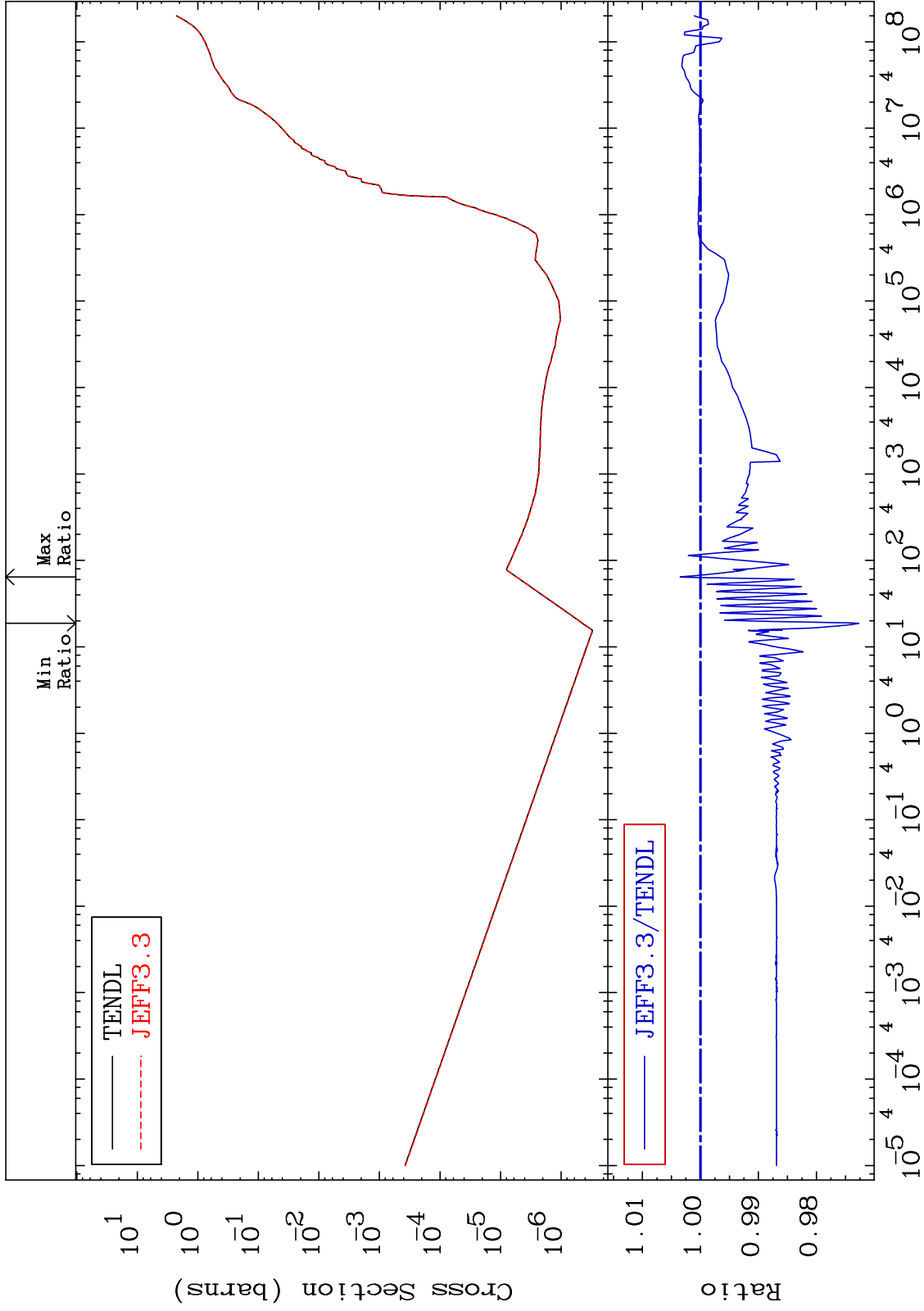
MAT 4122 (n,d) α 41-Nb-92
 Cross Section -39.54 To 3124. %



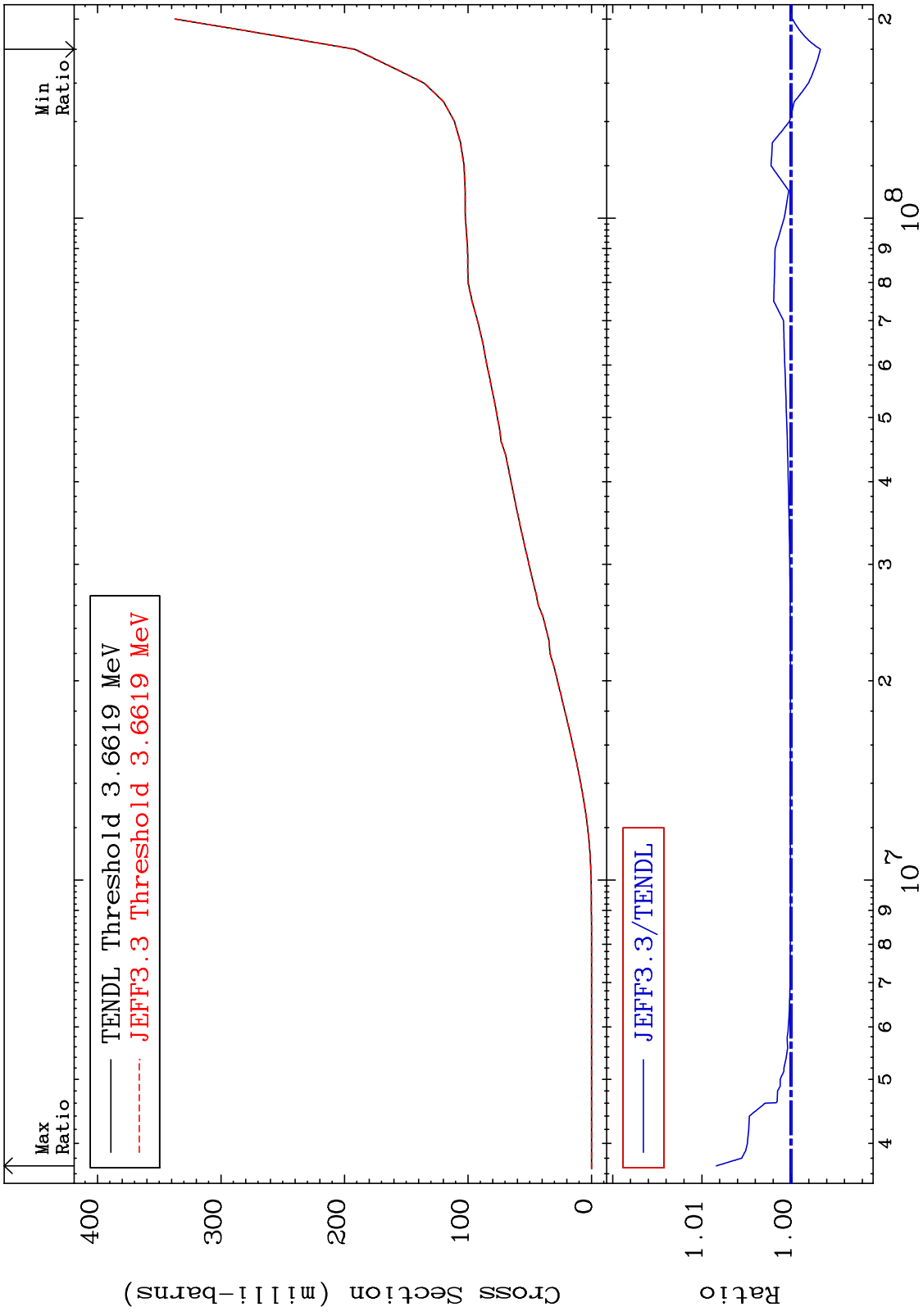
MAT 4122

Hydrogen Production
Cross Section

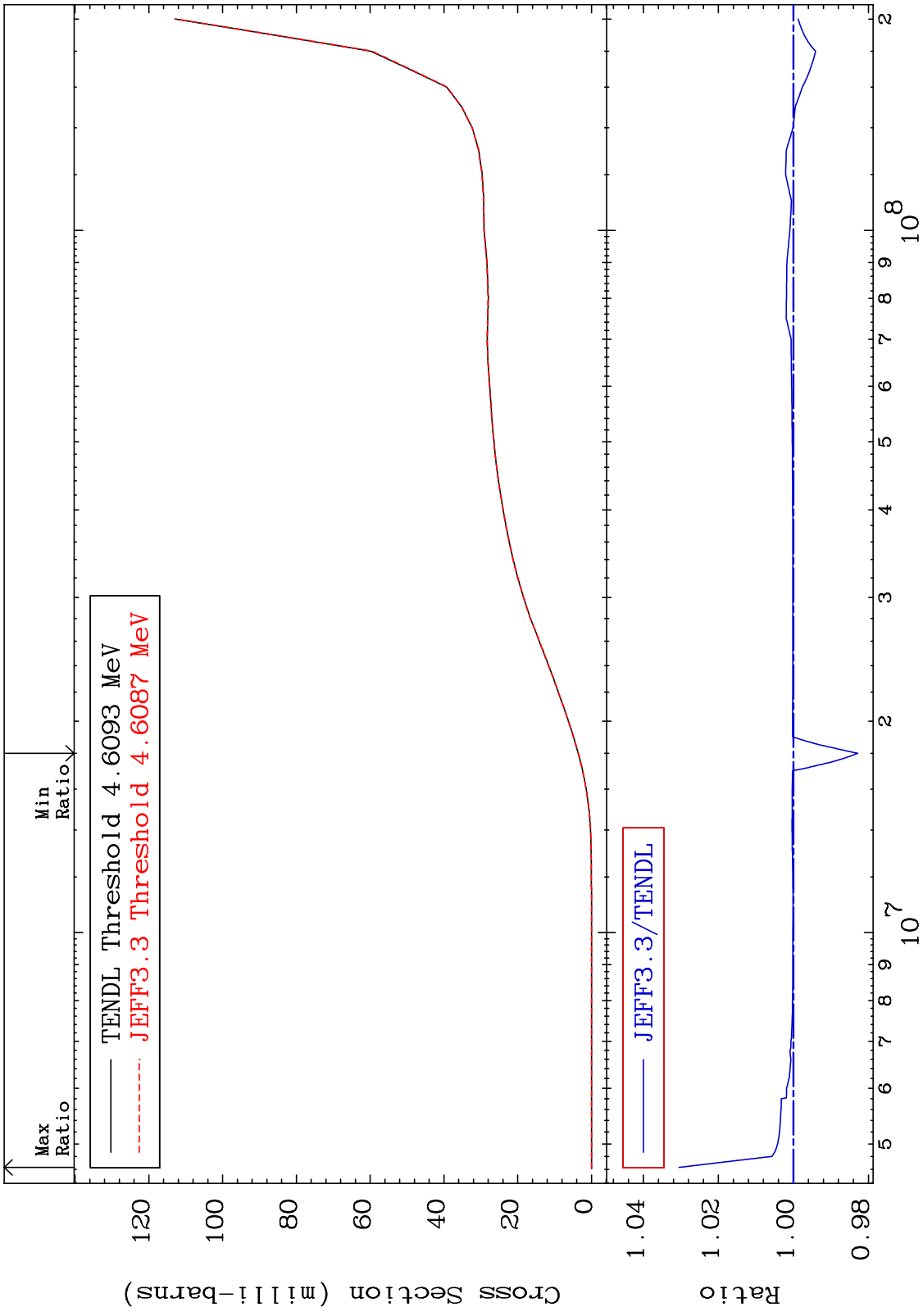
41-Nb-92
-2.732 To 0.349 %



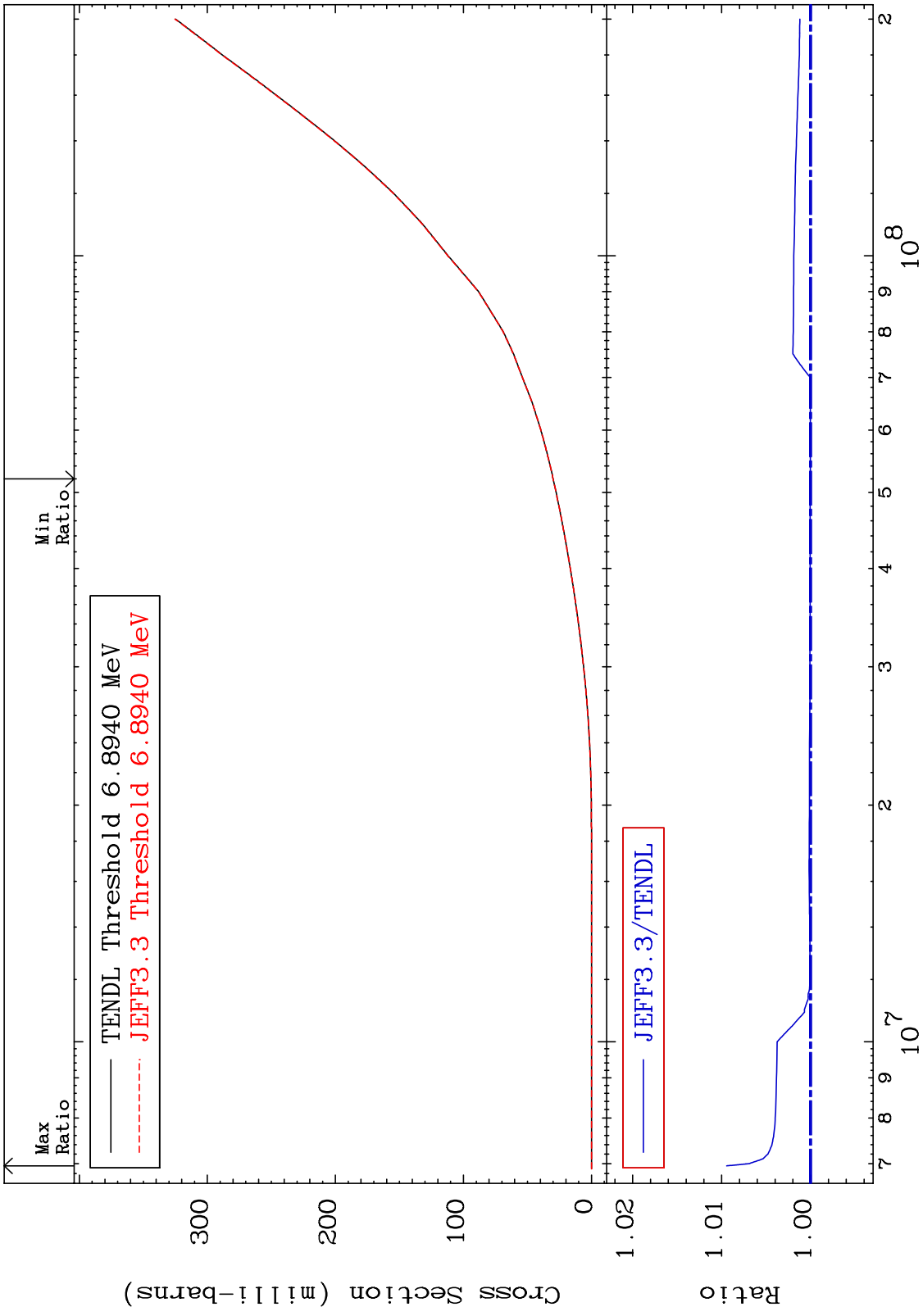
MAT 4122 Deuterium Production Cross Section 41-Nb-92 -0.330 To 0.836 %



MAT 4122 Tritium Production Cross Section 41-Nb-92 -1.718 To 3.050 %



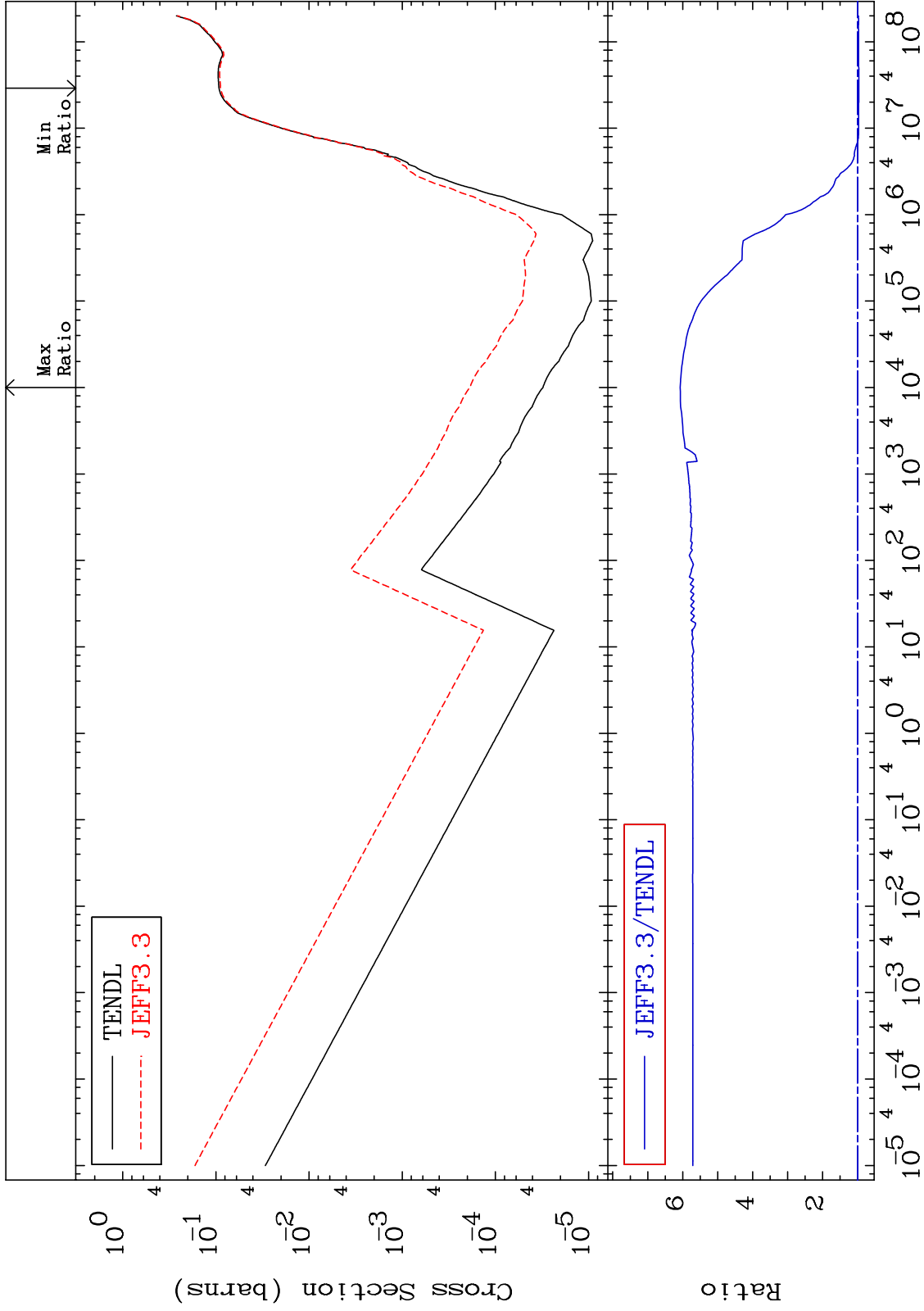
MAT 4122 He-3 Production Cross Section 41-Nb-92 To 0.944 %



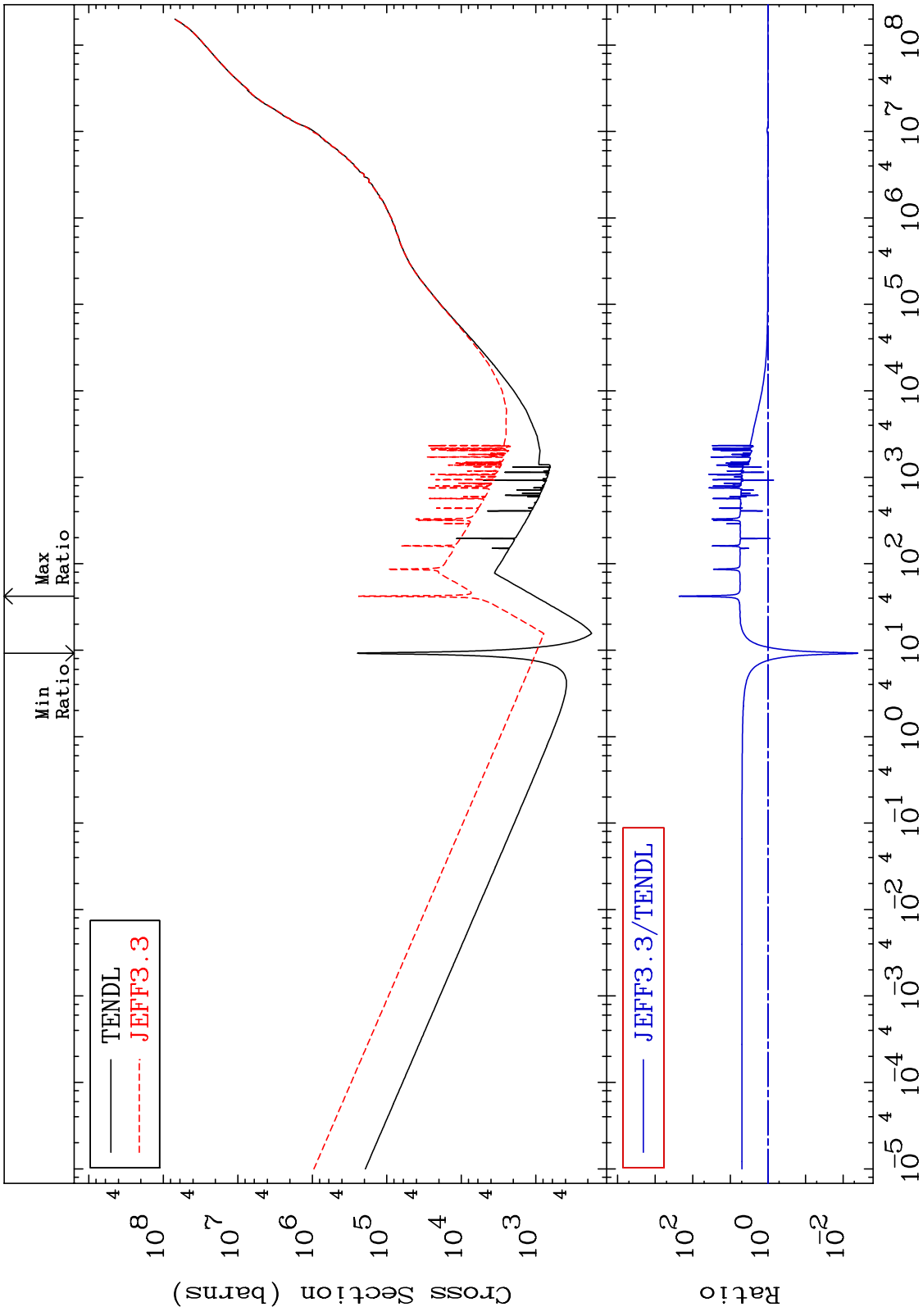
MAT 4122

He-4 Production
Cross Section

41-Nb-92
-3.939 To 507.1 %



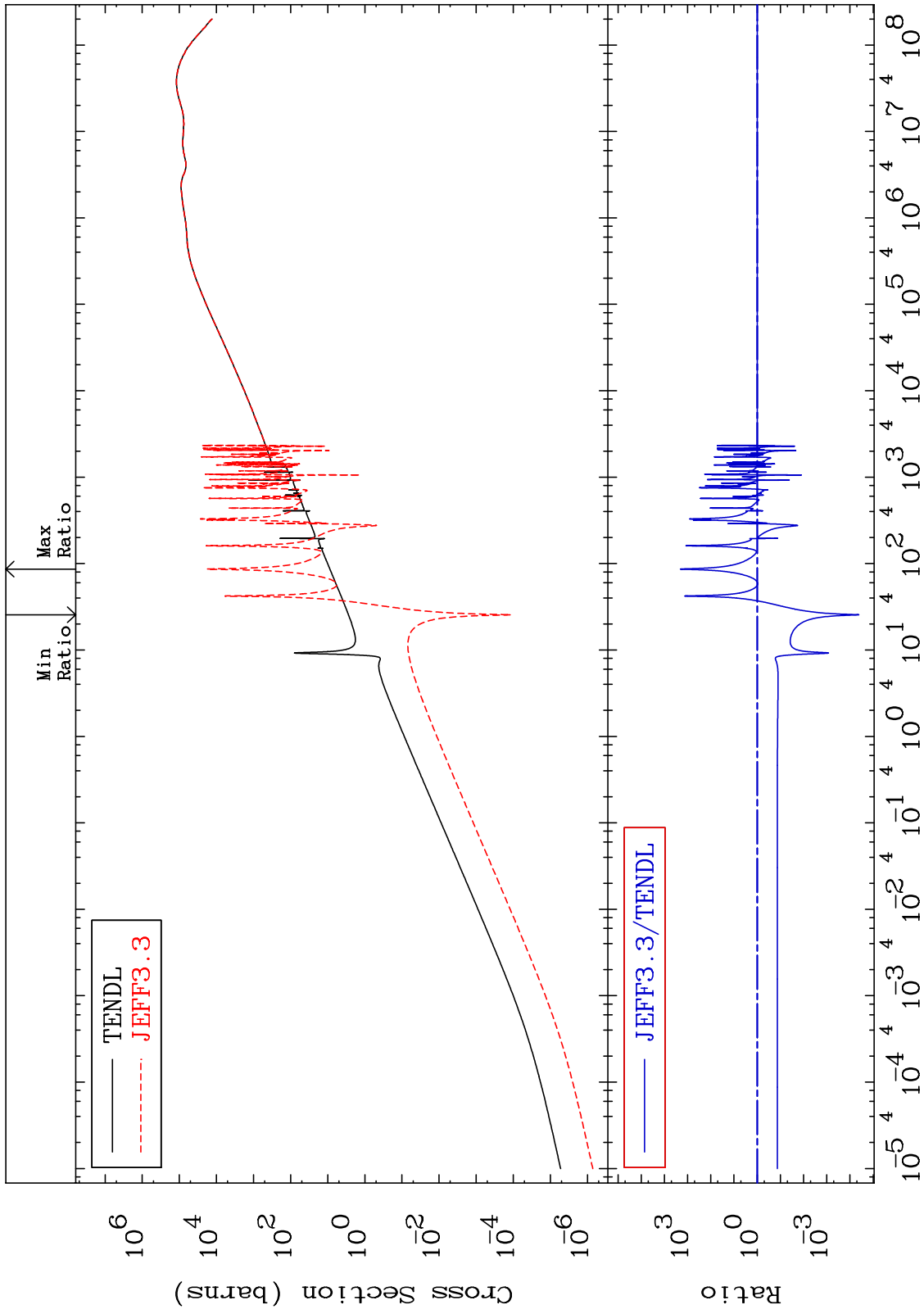
MAT 4122 Kerma total (eV-barns) 41-Nb-92
 Cross Section -99.60 To 9999. %



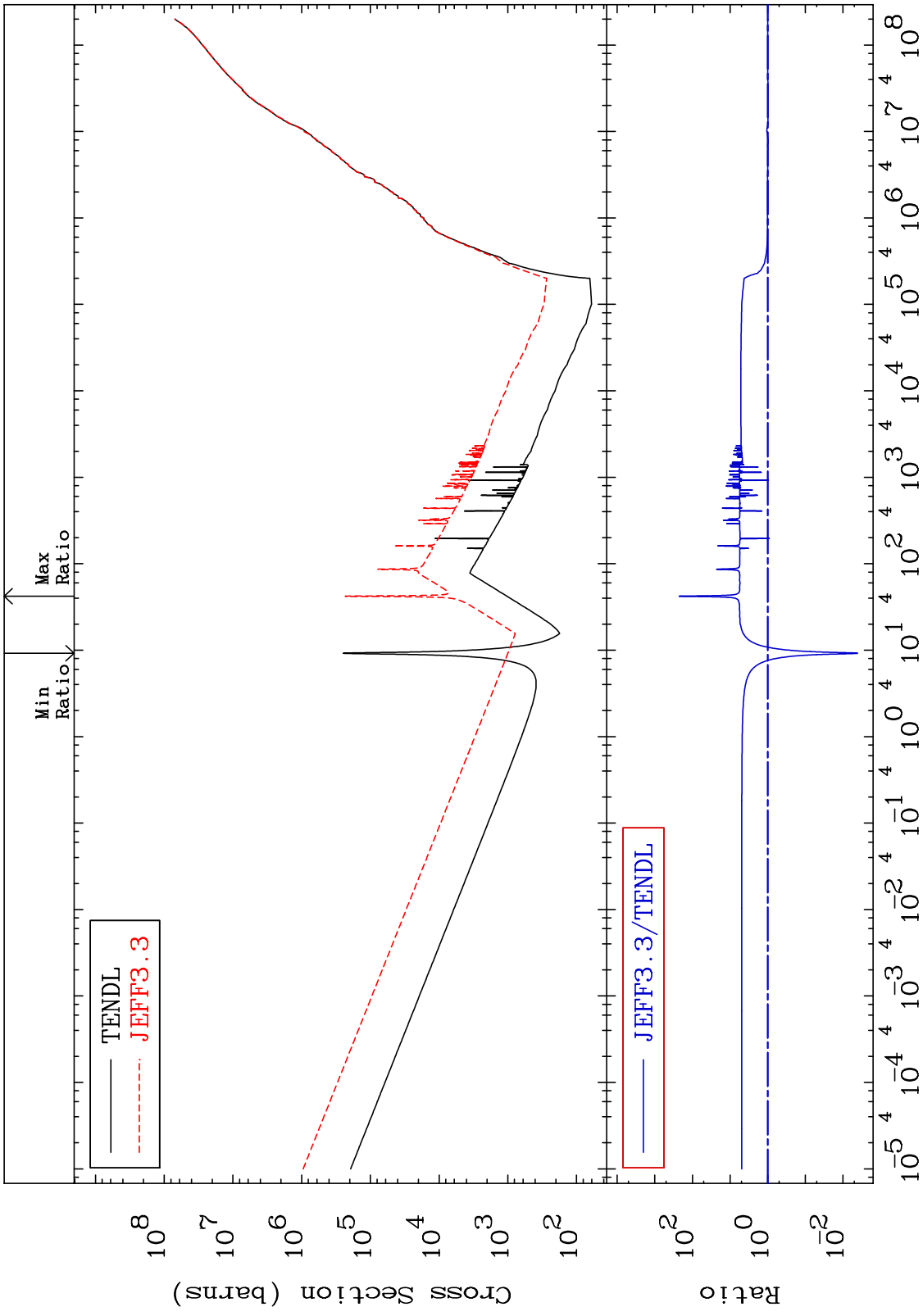
MAT 4122

Kerma elastic
Cross Section

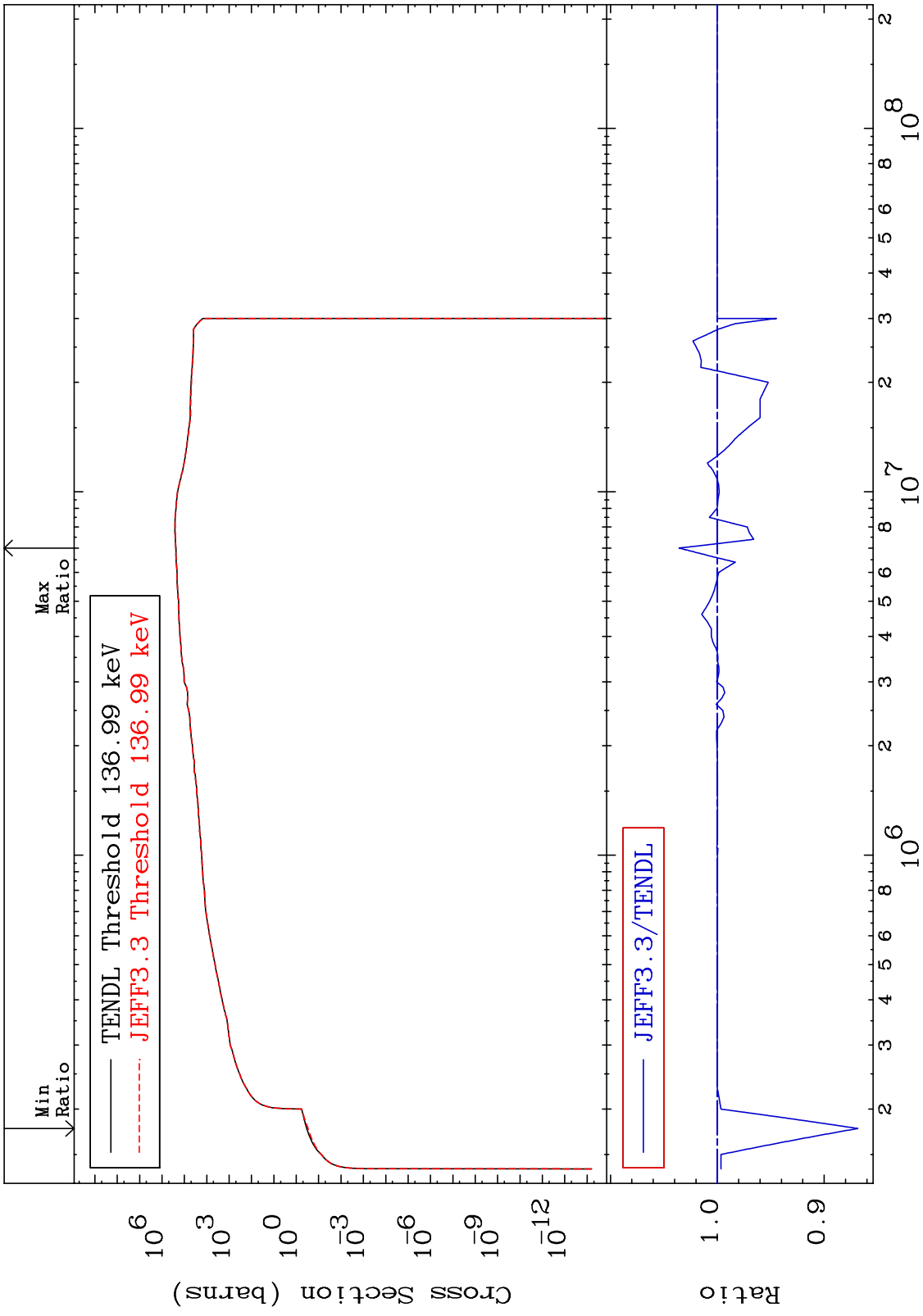
41-Nb-92
-100.0 To 9999. %



MAT 4122 Kerma non-elastic (all but mt2) 41-Nb-92
 -99.60 To 9999. %
 Cross Section



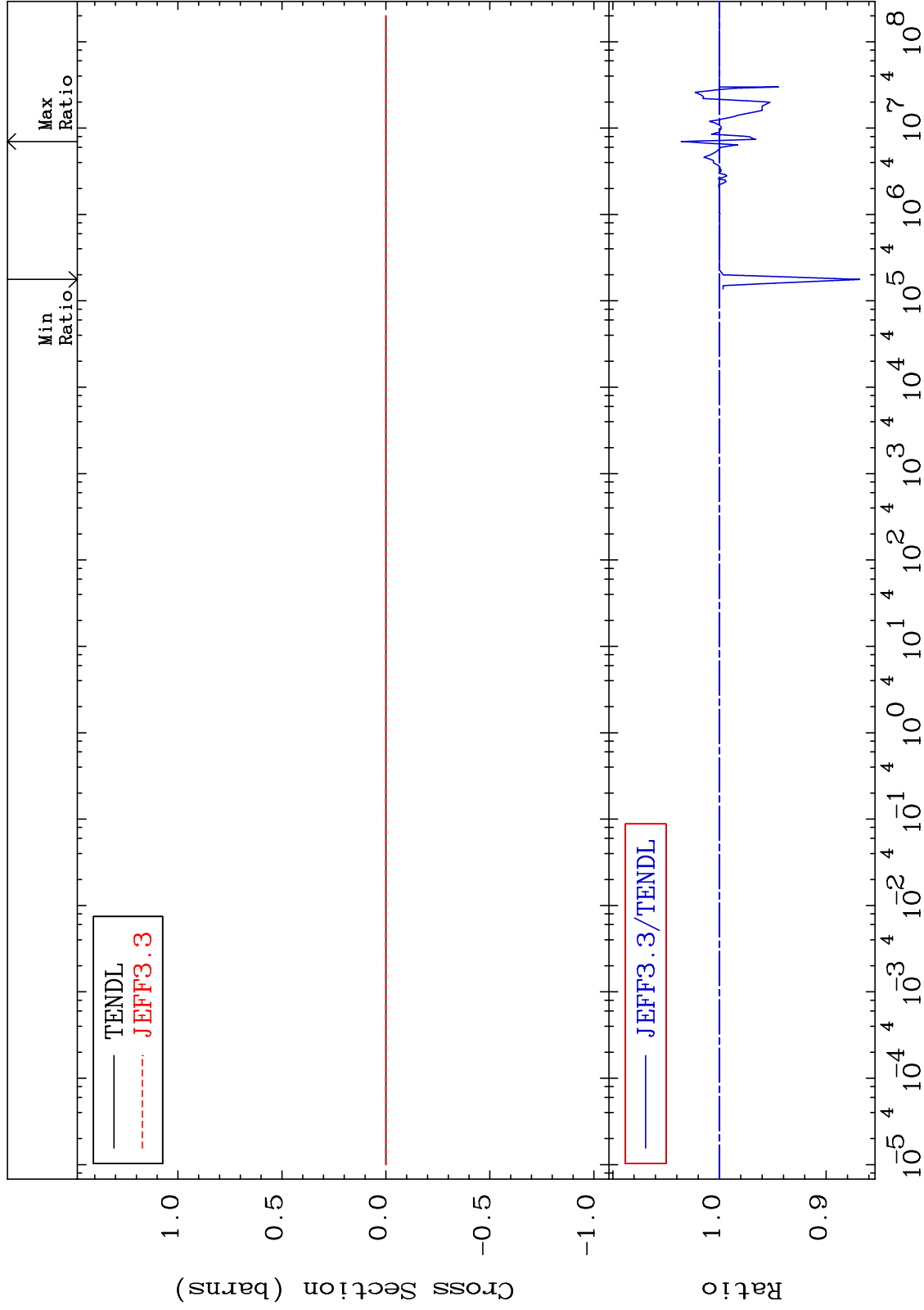
MAT 4122 Kerma inelastic (mt51-91) 41-Nb-92
 -13.15 To 3.581 %
 Cross Section



MAT 4122

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

41-Nb-92
-13.15 To 3.581 %

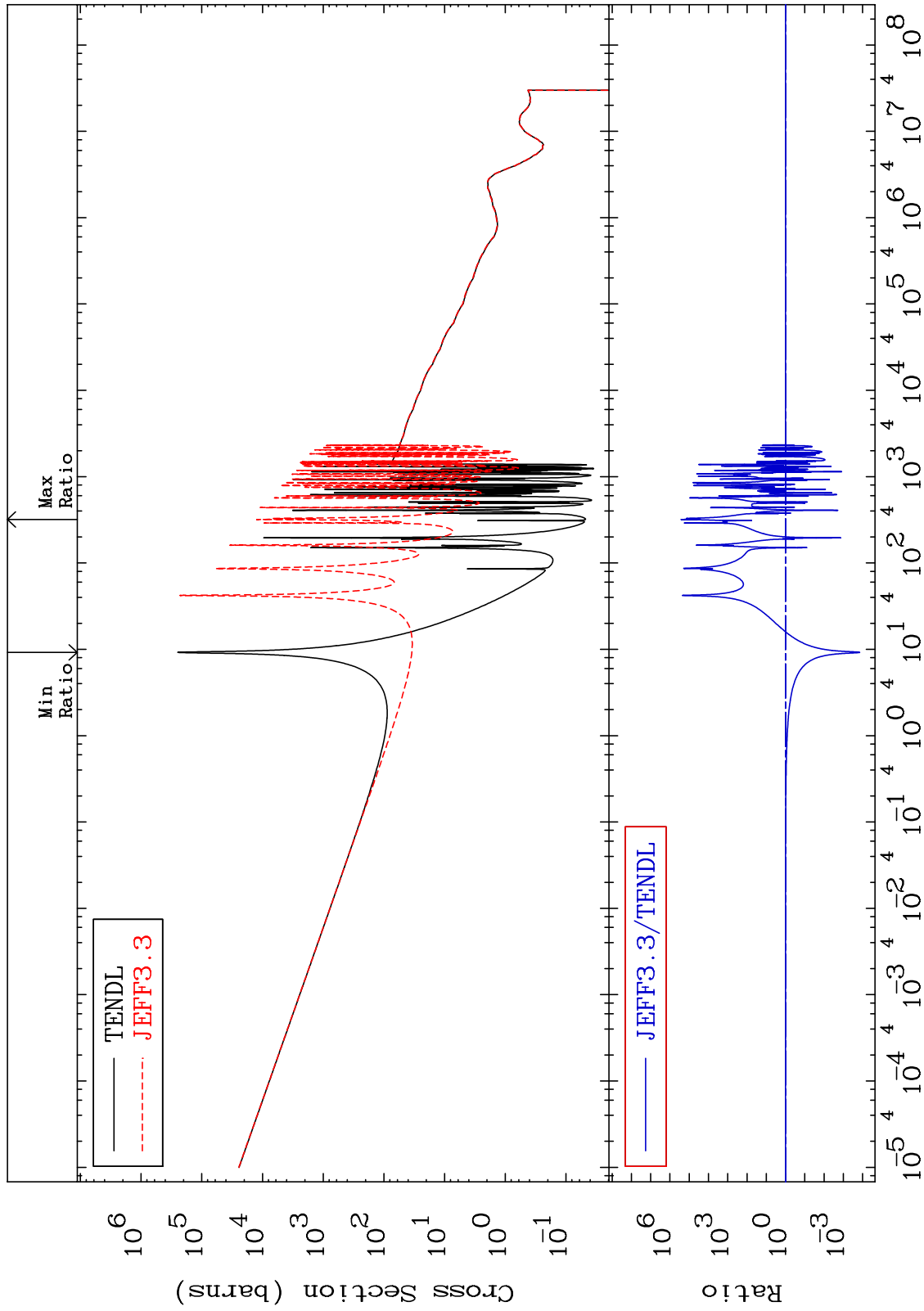


MAT 4122

Kerma capture (mt102)

41-Nb-92

-99.99 To 9999. %



70

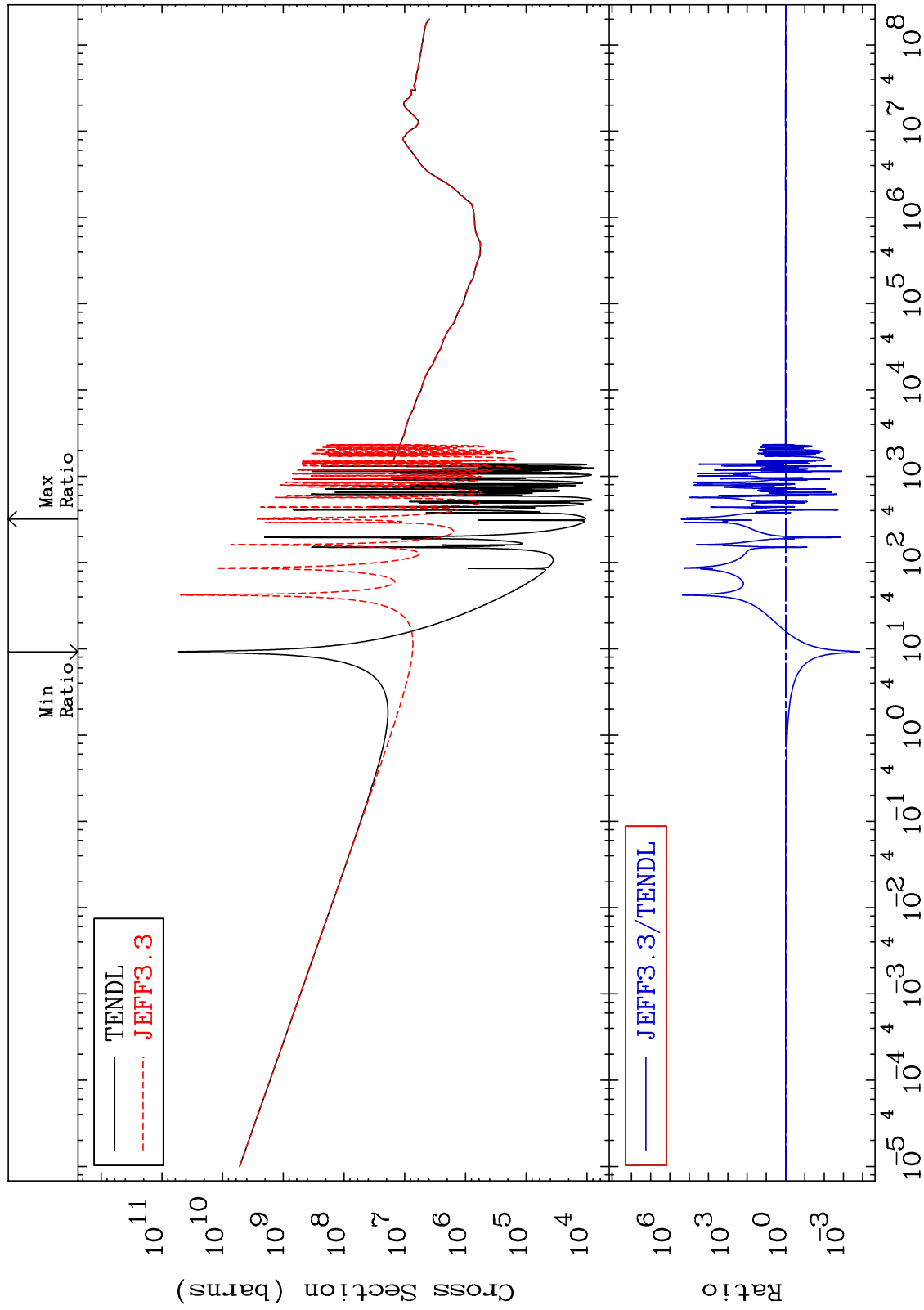
Incident Energy (eV)

41-Nb-92

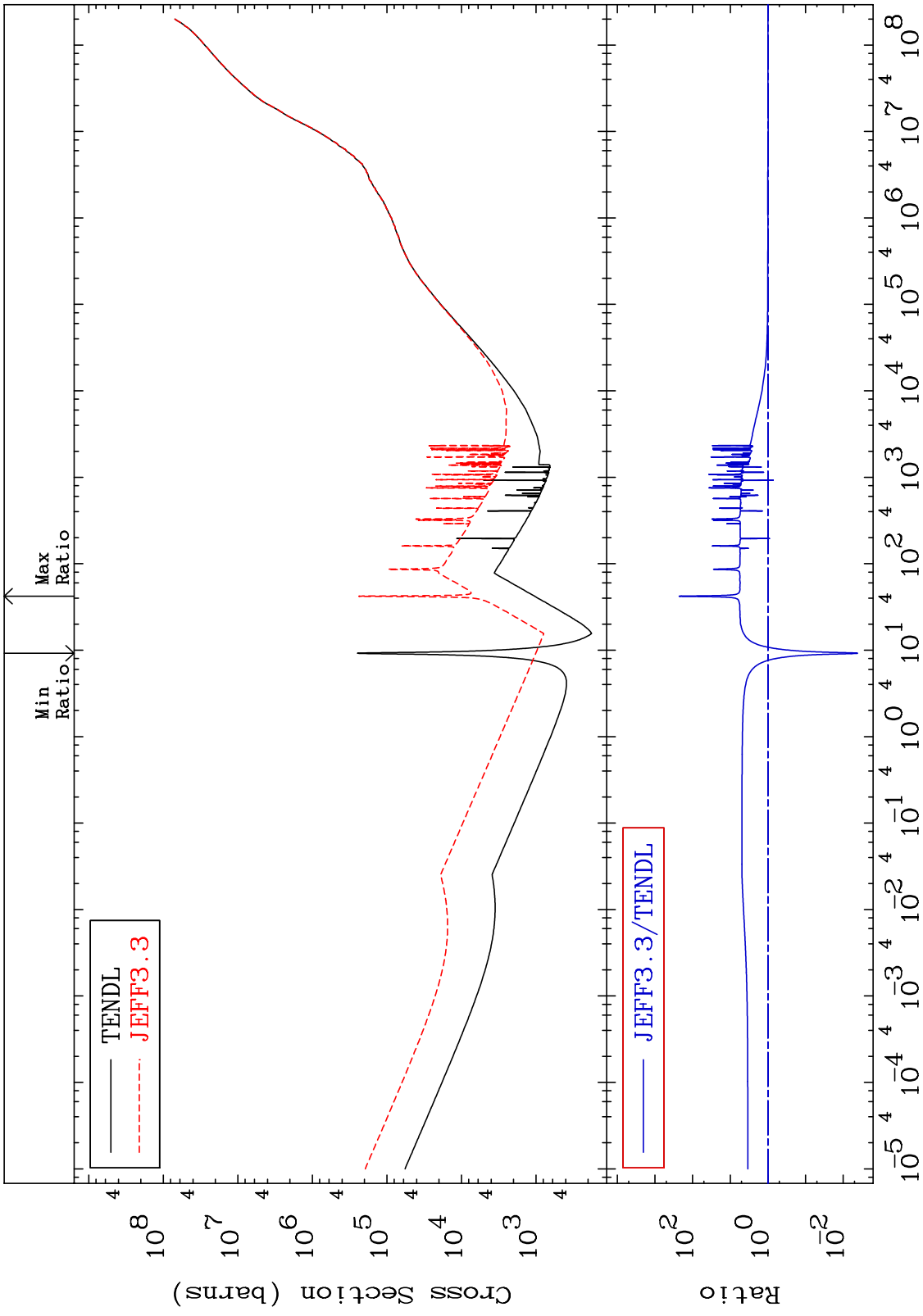
MAT 4122

Total photon (eV-barns)
Cross Section

41-Nb-92
-99.99 To 9999. %



MAT 4122 Total kinematic kerma (high limit) 41-Nb-92
 Cross Section -99.59 To 9999. %



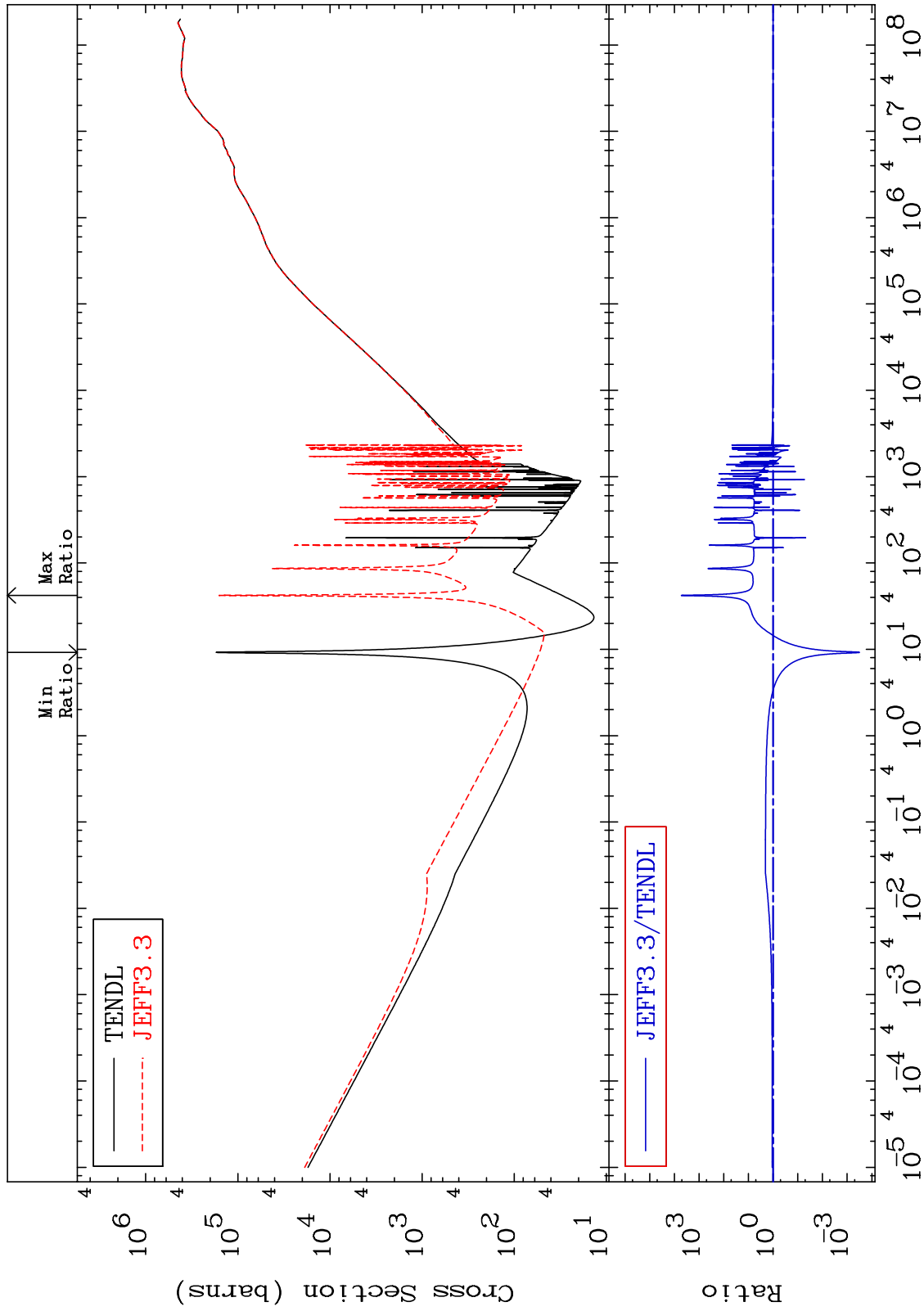
MAT 4122

Dpa total (eV-barns)

41-Nb-92

-99.97 To 9999. %

Cross Section



73

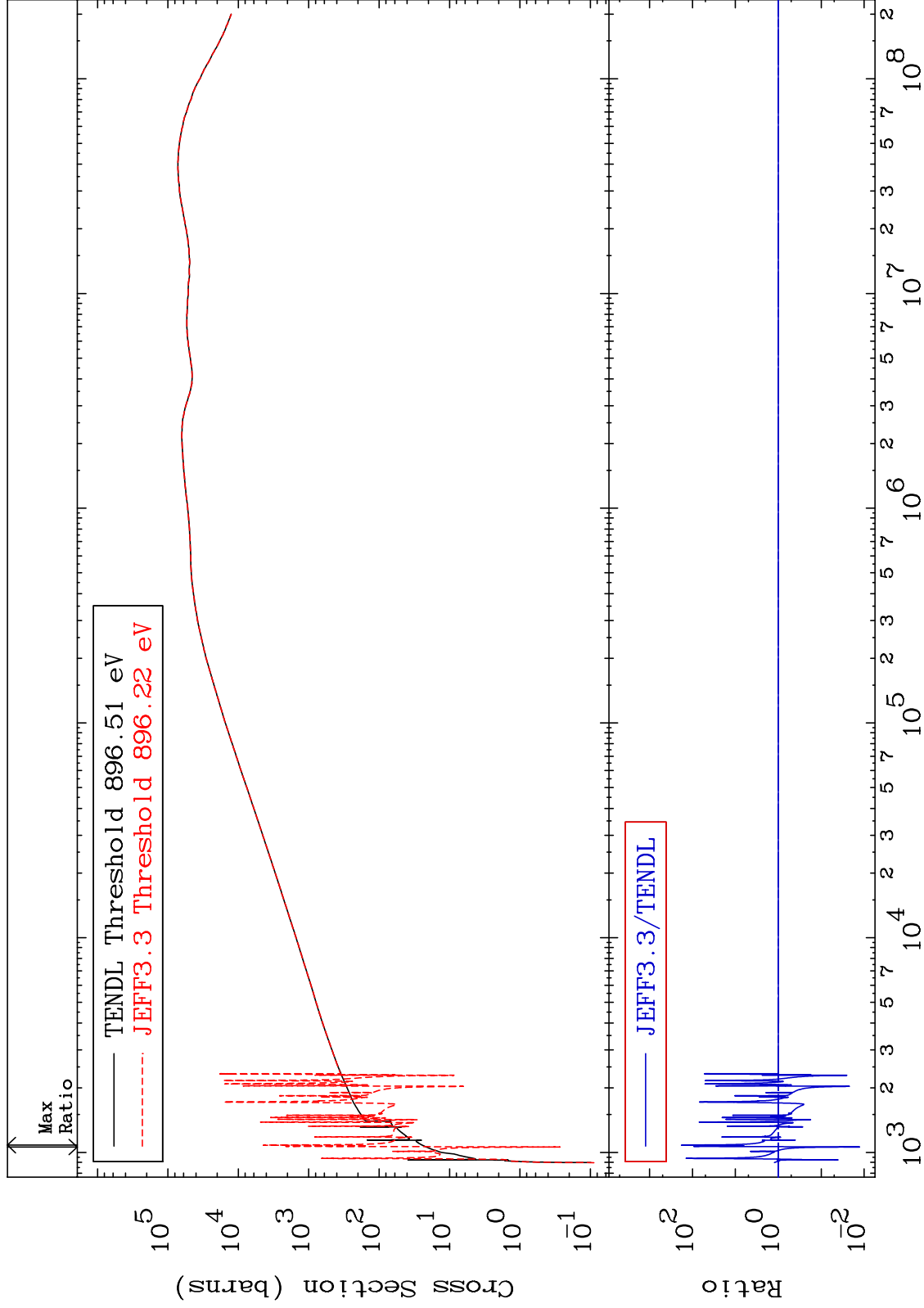
Incident Energy (eV)

41-Nb-92

MAT 4122

Dpa elastic (mt2)
Cross Section

41-Nb-92
-98.74 To 9999. %



74

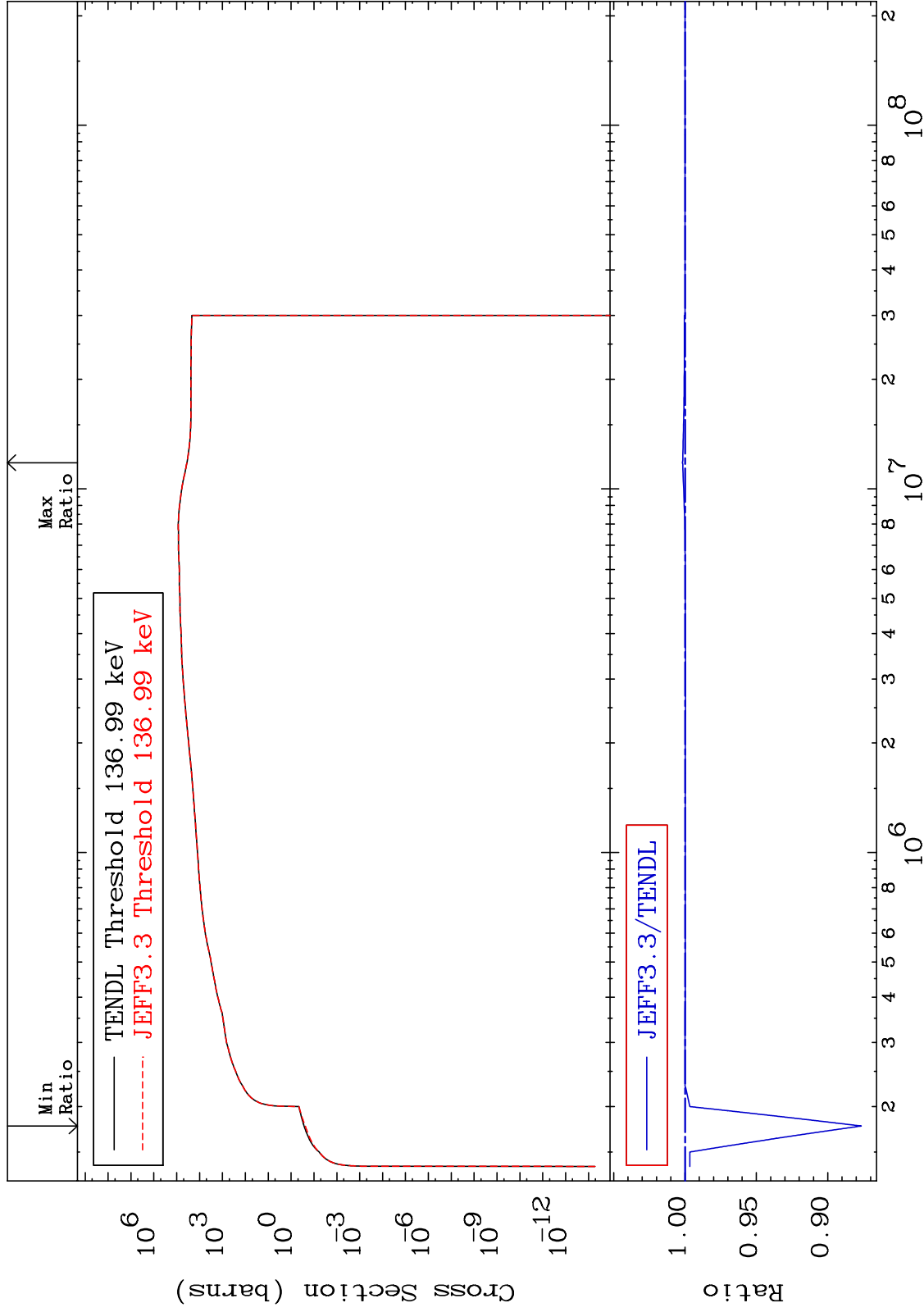
41-Nb-92

41-Nb-92

MAT 4122

Dpa inelastic (mt51-91)
Cross Section

41-Nb-92
-12.35 To 0.182 %

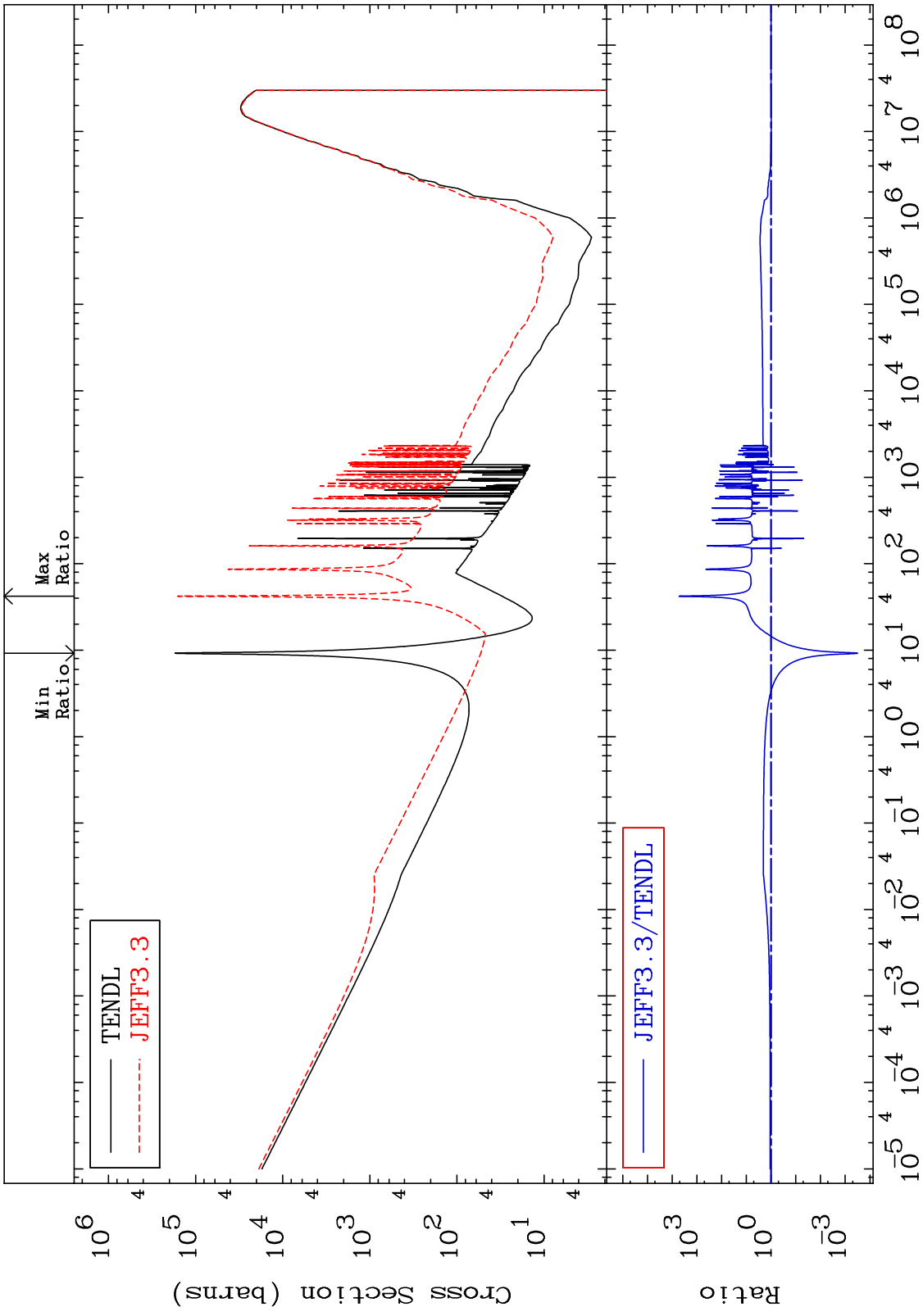


75

Incident Energy (eV)

41-Nb-92

MAT 4122 Dpa disappearance (mt102 -120) 41-Nb-92
 Cross Section -99.97 To 9999. %



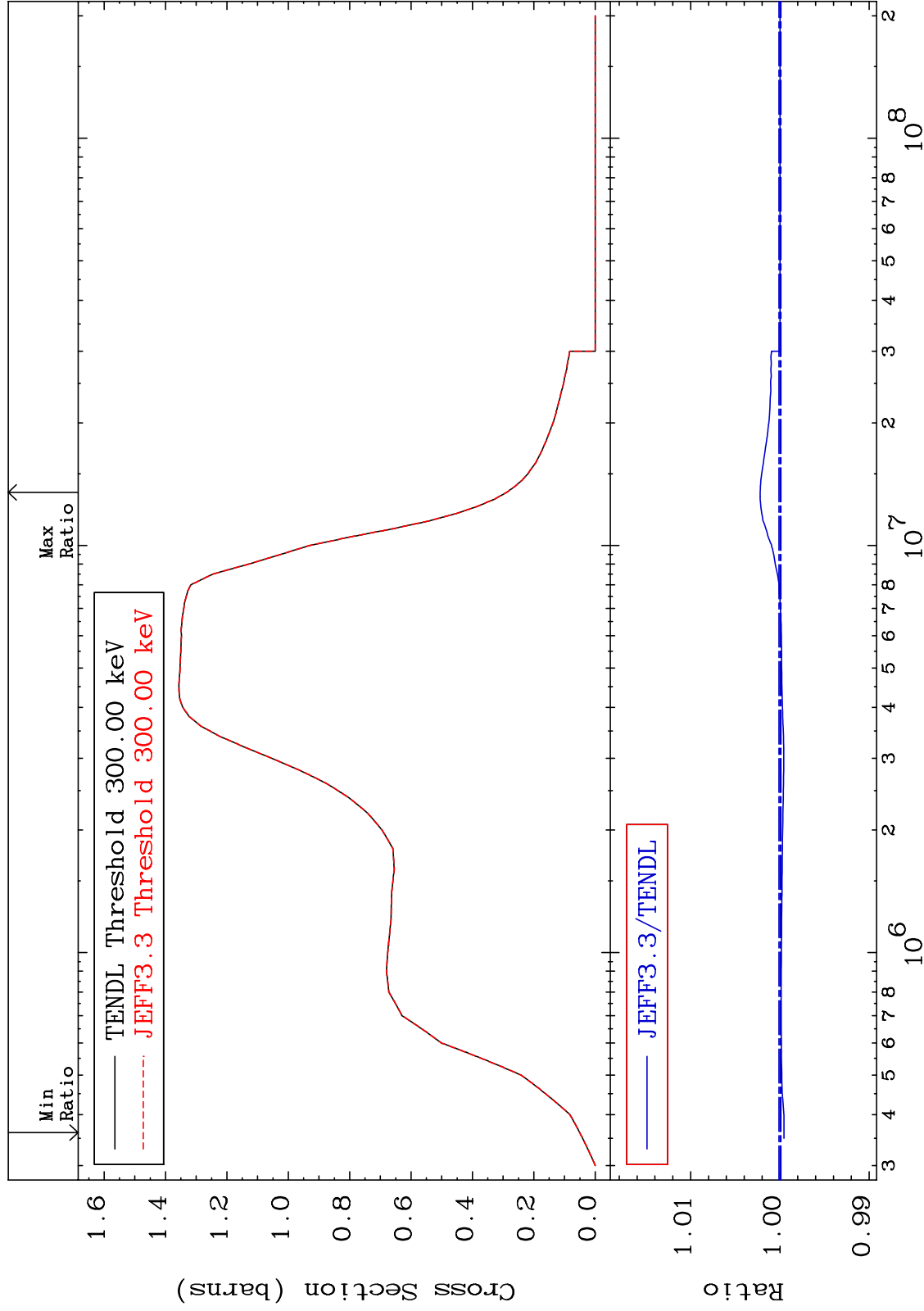
76 Incident Energy (eV) 41-Nb-92

MAT 4122

41-Nb-92

Inelastic: 41-Nb-92g

Radionuclide Production Cross Section -0.045 To 0.222 %



77

Incident Energy (eV)

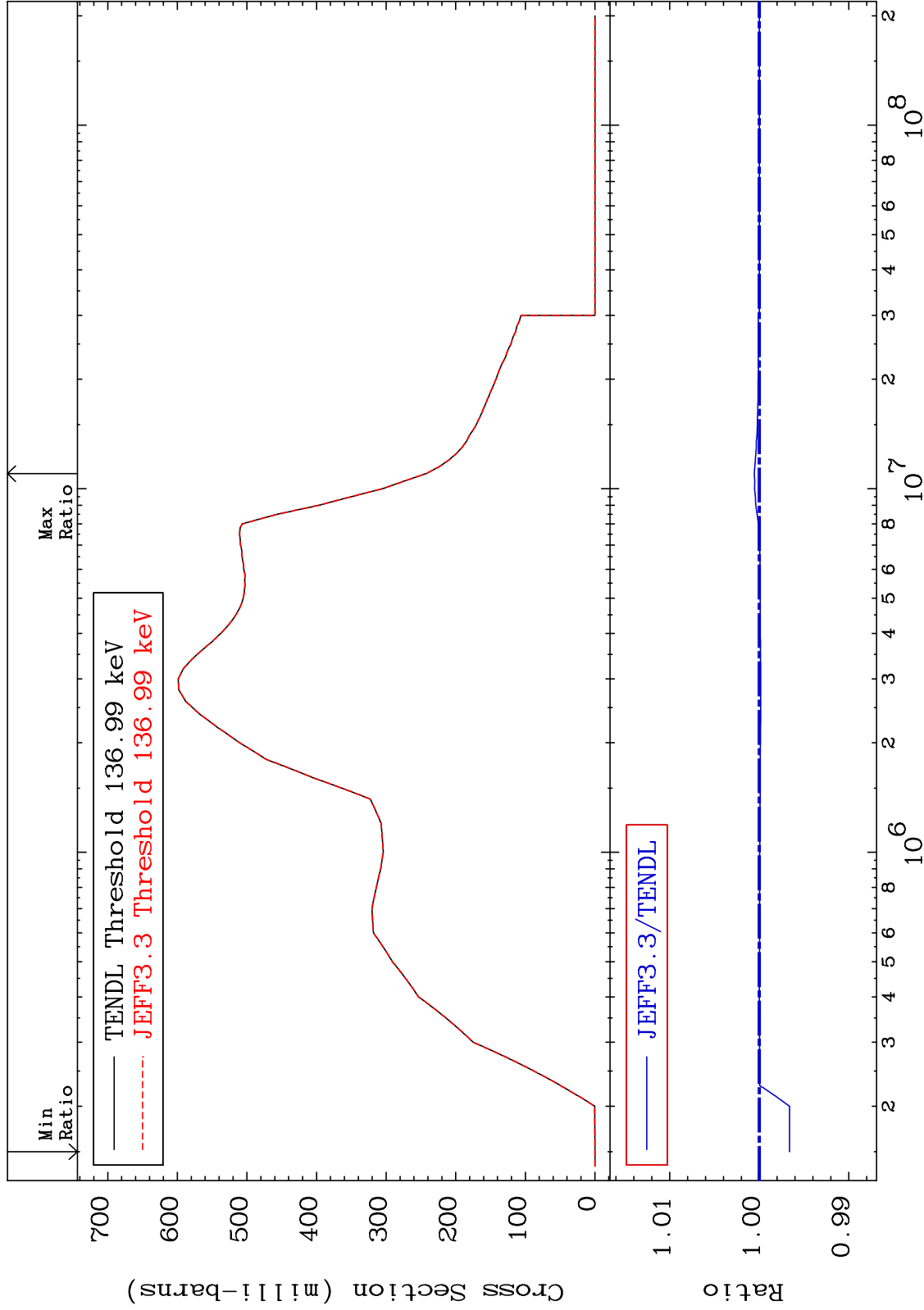
41-Nb-92

MAT 4122

Inelastic:41-Nb-92m1

41-Nb-92

Radionuclide Production Cross Section -0.338 To 0.056 %



78

Incident Energy (eV)

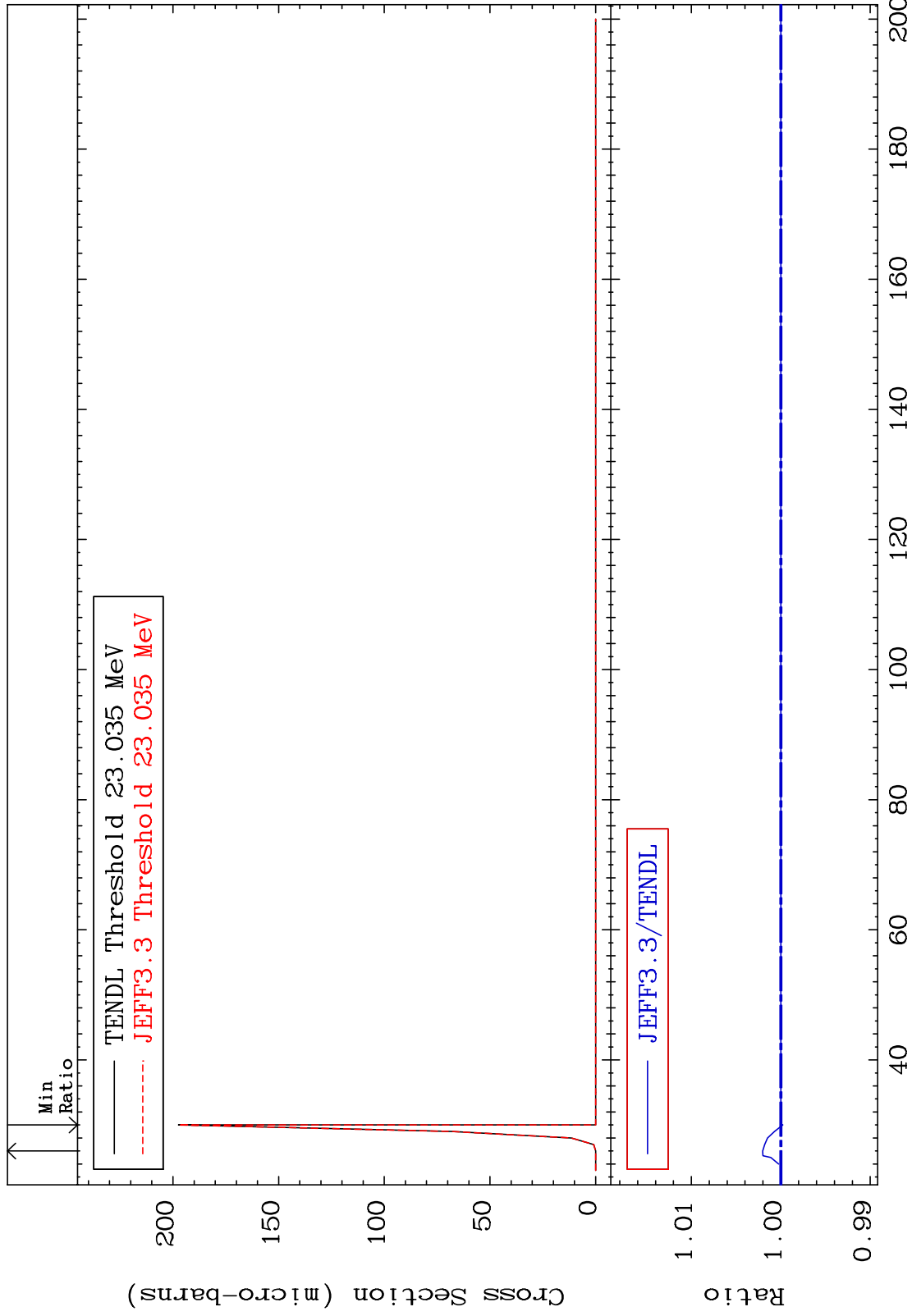
41-Nb-92

MAT 4122

(n,2n) d:40-Zr-89g

41-Nb-92

Radionuclide Production Cross Section -0.023 To 0.202 %



79

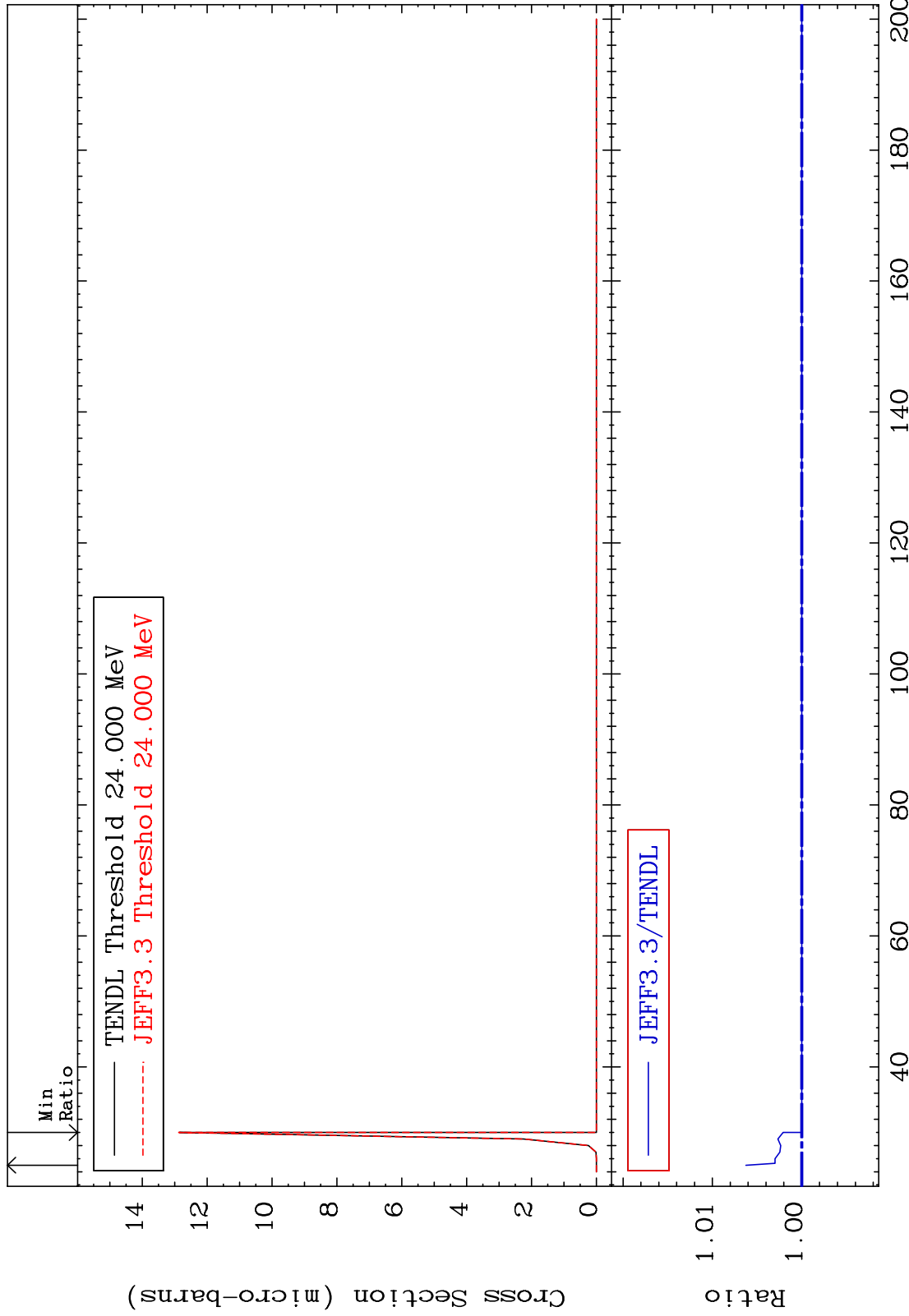
41-Nb-92

MAT 4122

(n,2n) d:40-Zr-89m1

41-Nb-92

Radionuclide Production Cross Section 0.000 To 0.626 %



80

Incident Energy (MeV)

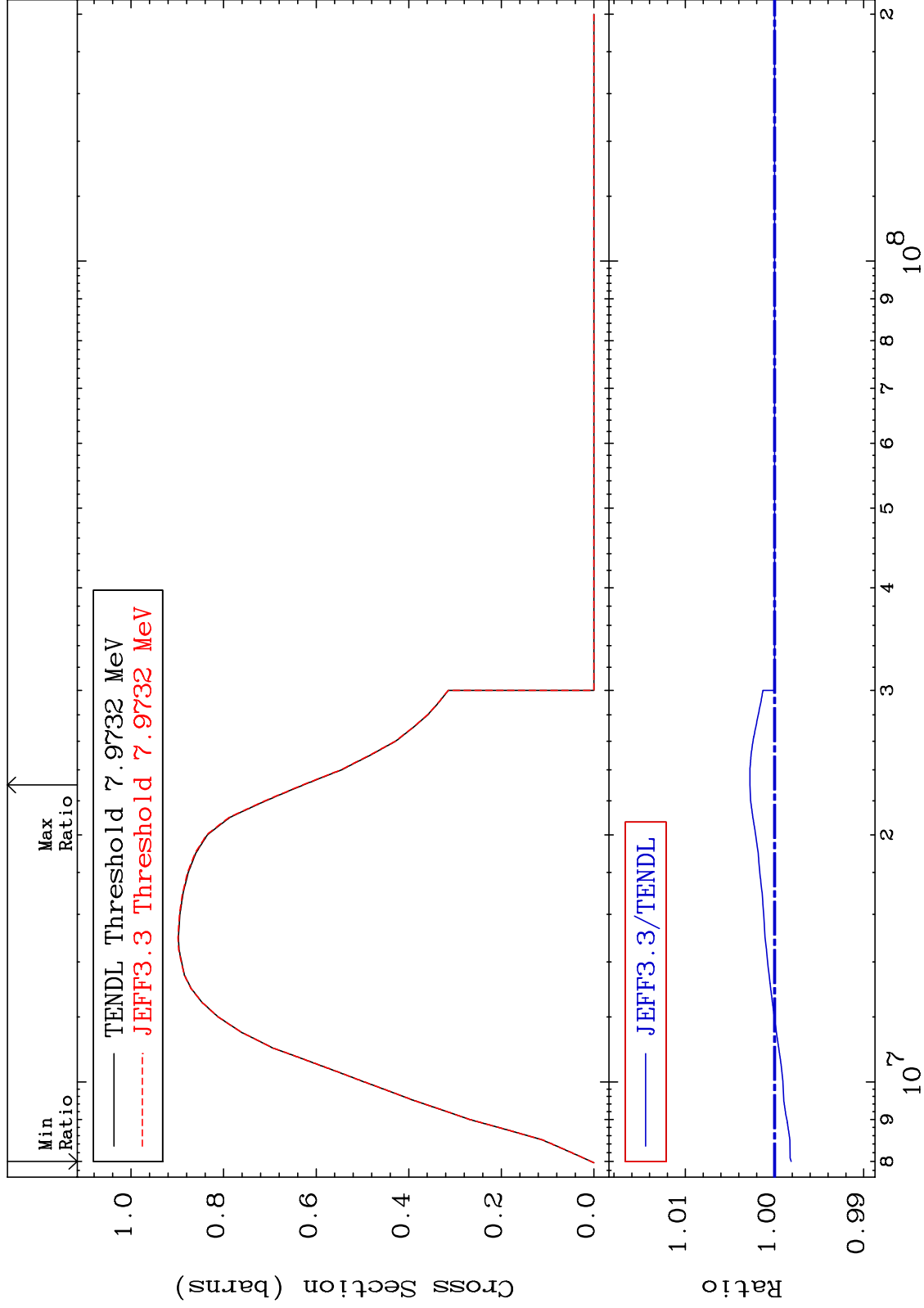
41-Nb-92

MAT 4122

(n,2n): 41-Nb-91g

41-Nb-92

Radionuclide Production Cross Section -0.186 To 0.277 %



81

Incident Energy (eV)

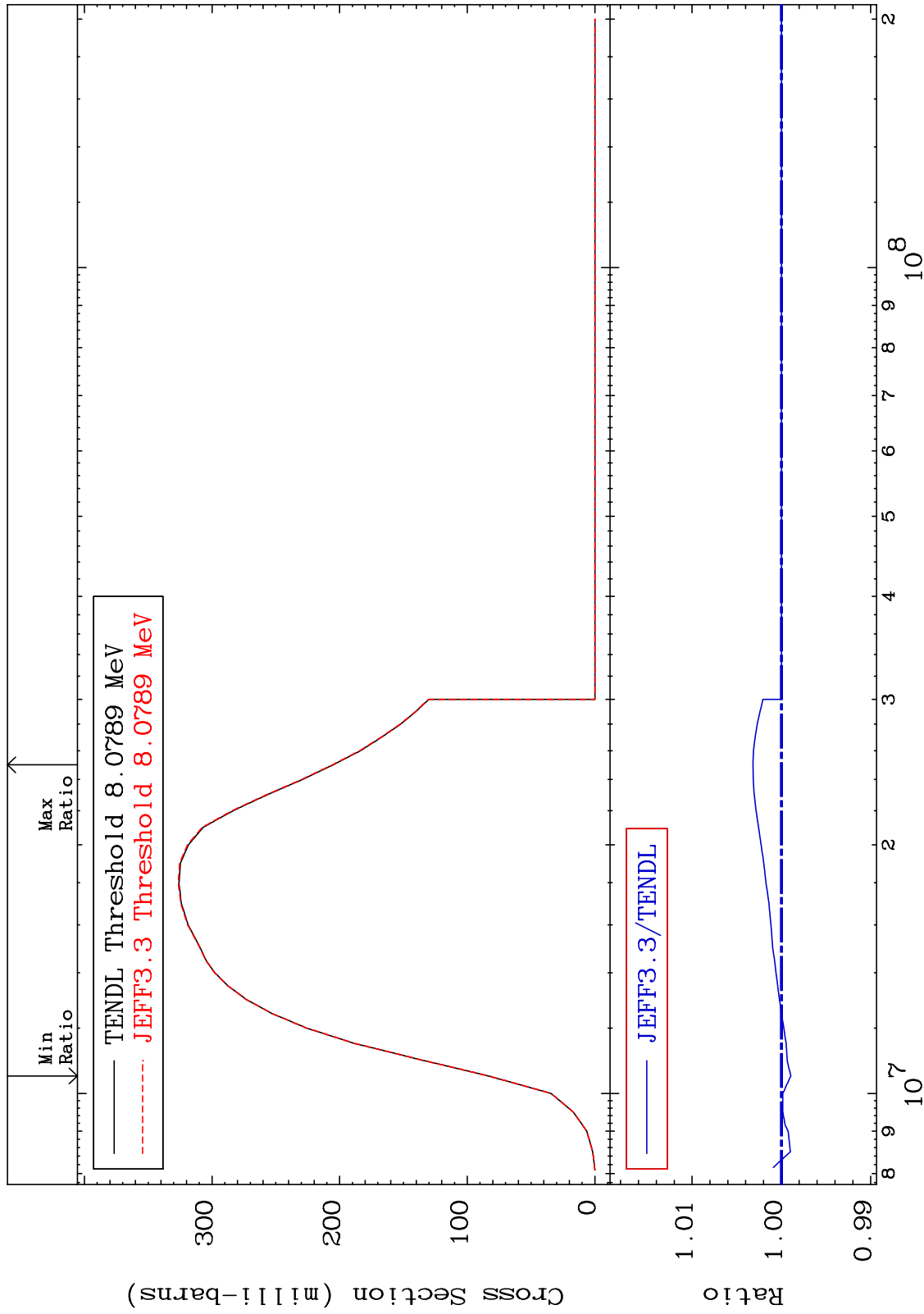
41-Nb-92

MAT 4122

(n,2n):41-Nb-91m1

41-Nb-92

Radionuclide Production Cross Section -0.105 To 0.318 %

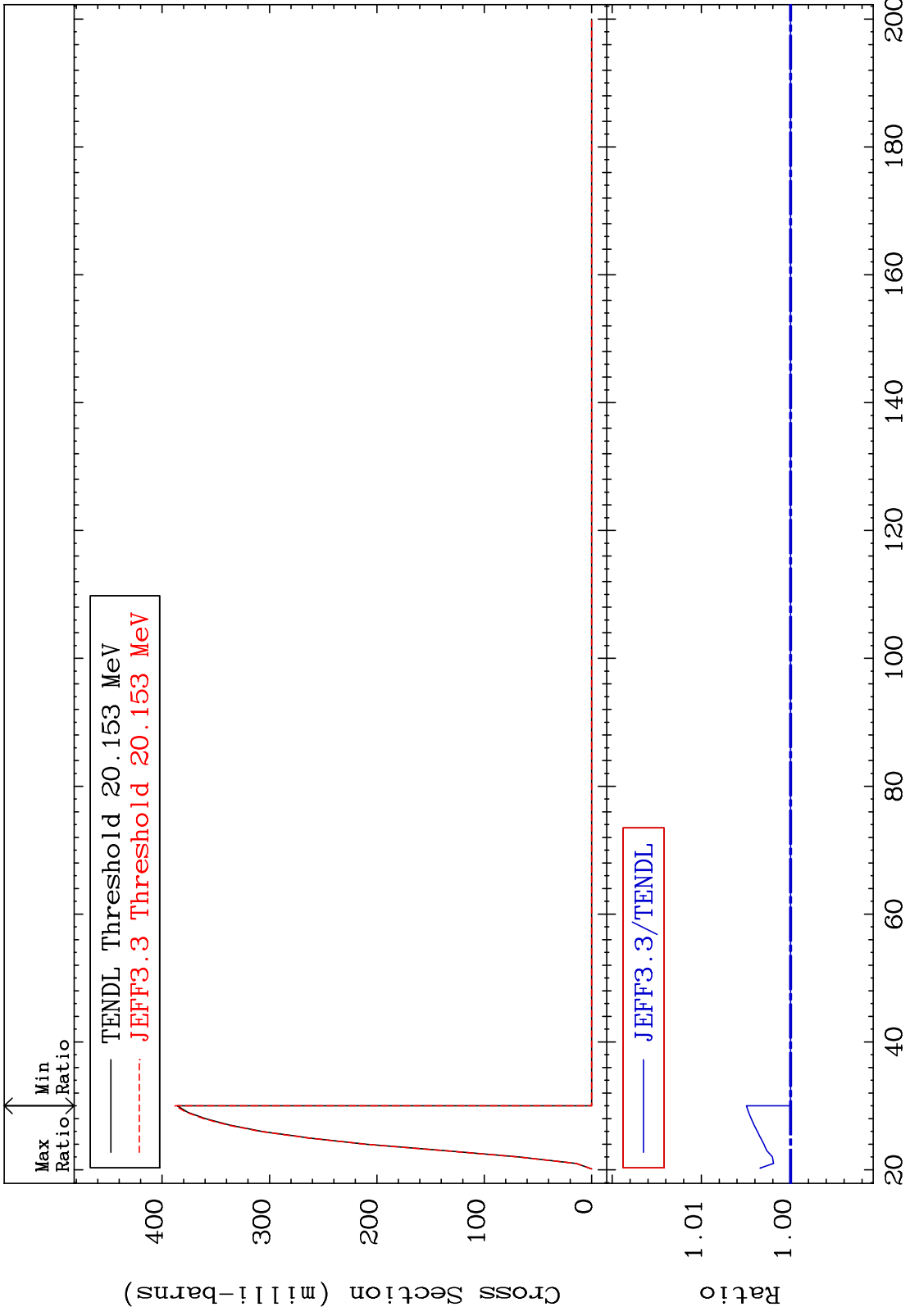


82

Incident Energy (eV)

41-Nb-92

MAT 4122 (n,3n): 41-Nb-90g 41-Nb-92
Radionuclide Production Cross Section 0.000 To 0.495 %

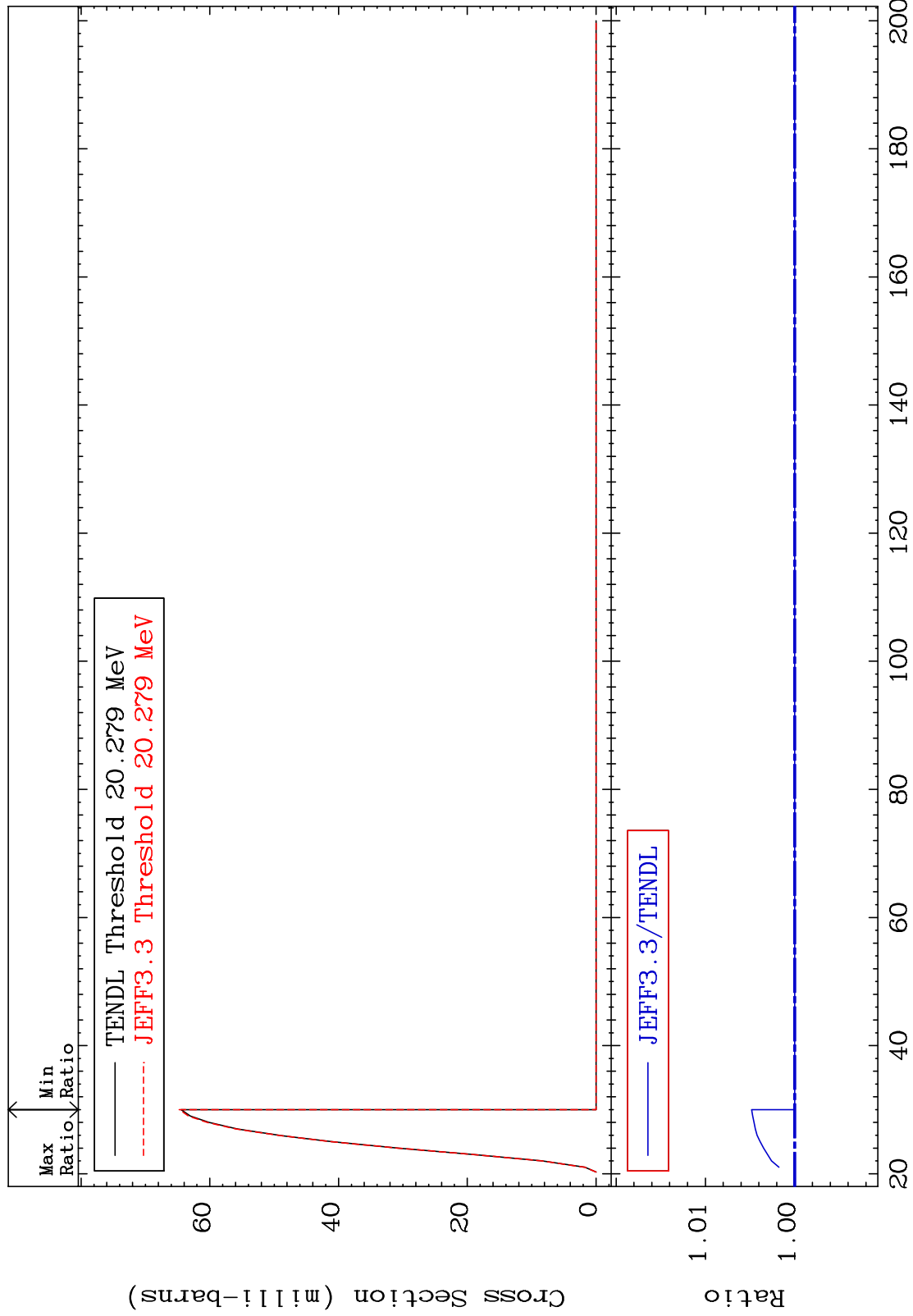


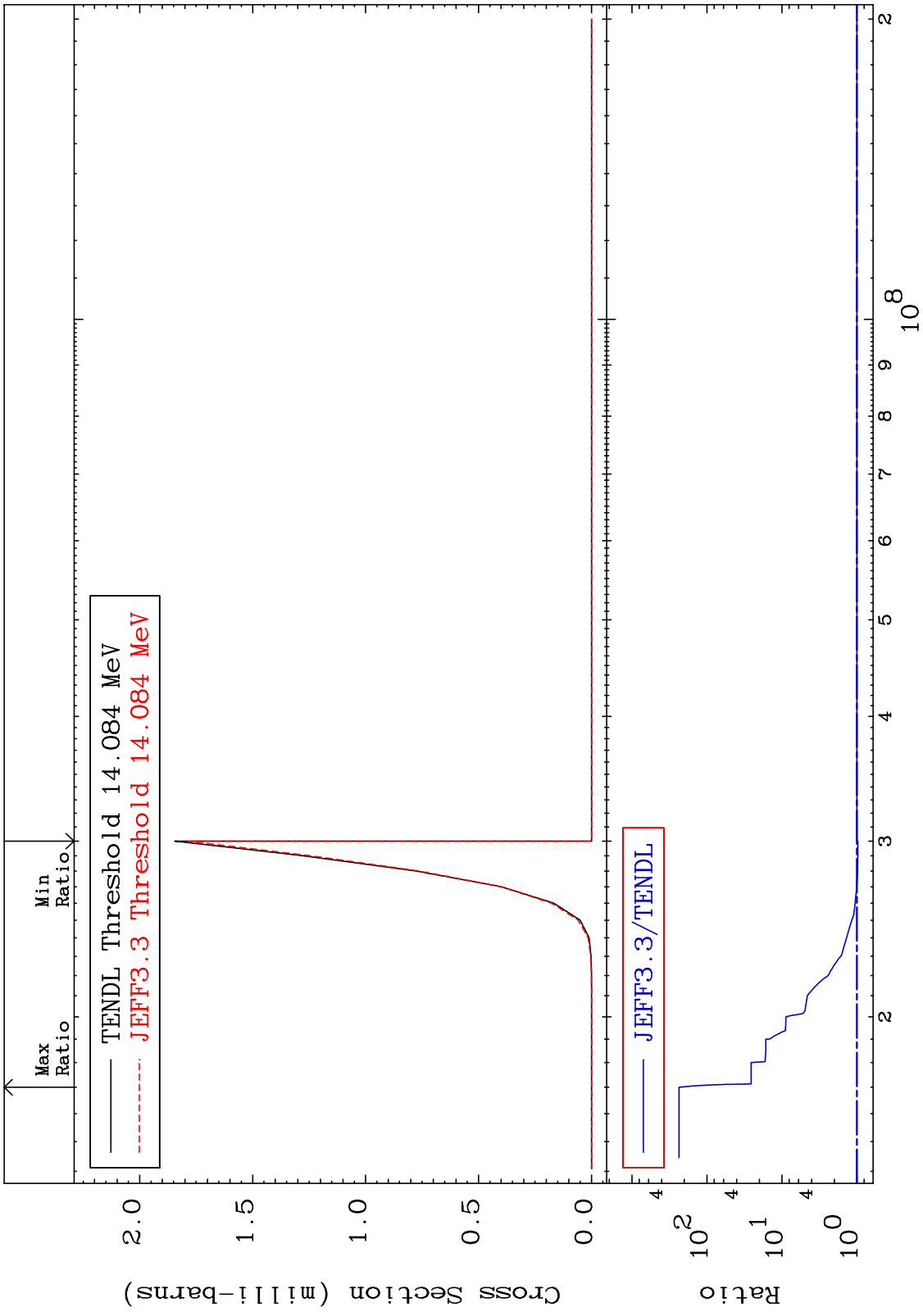
MAT 4122

(n, 3n) : 41-Nb-90m2

41-Nb-92

Radionuclide Production Cross Section 0.000 To 0.482 %



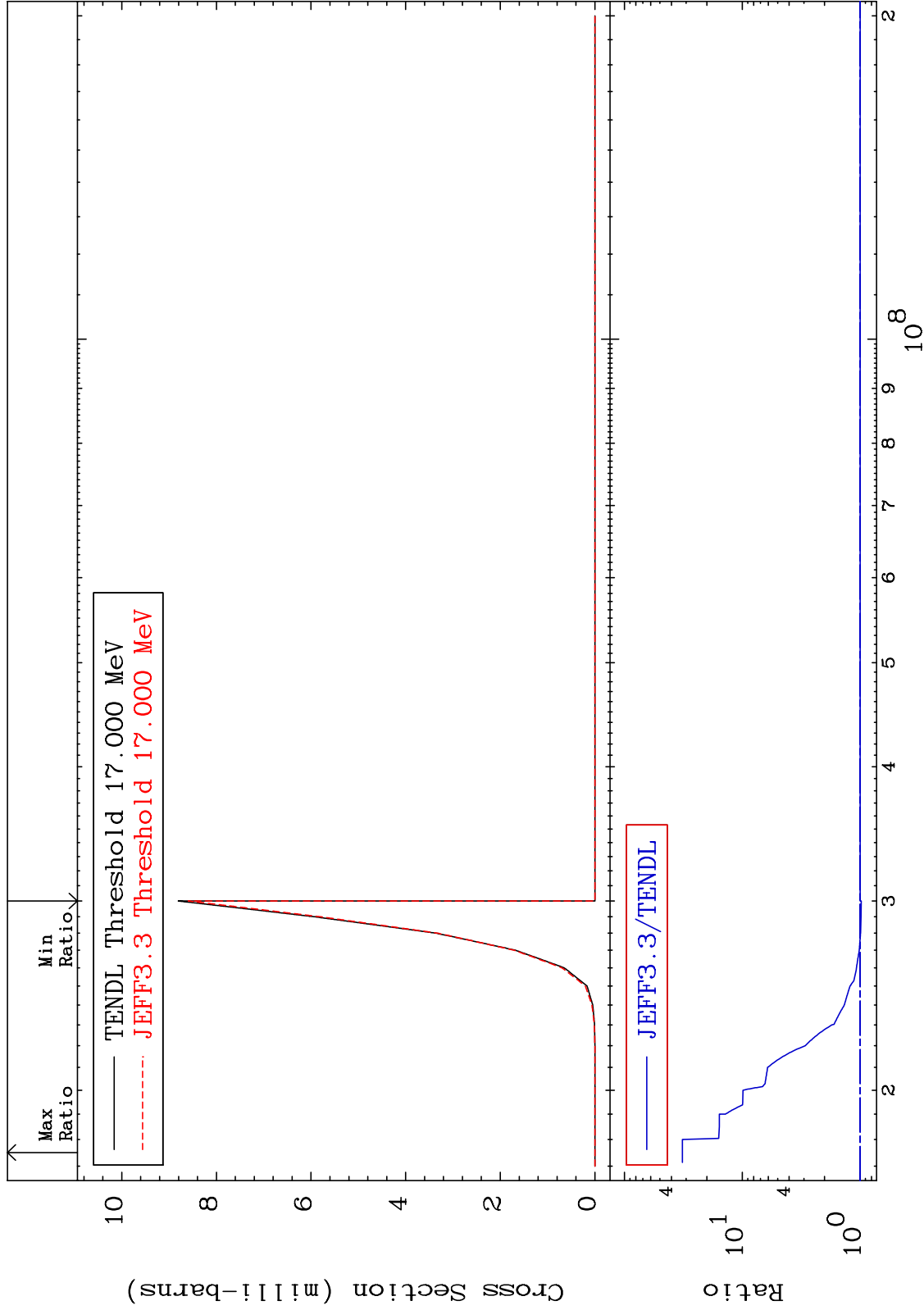


MAT 4122

(n,2n) α :39-Y -87m1

41-Nb-92

Radionuclide Production Cross Section -2.401 To 3120. %



86

Incident Energy (eV)

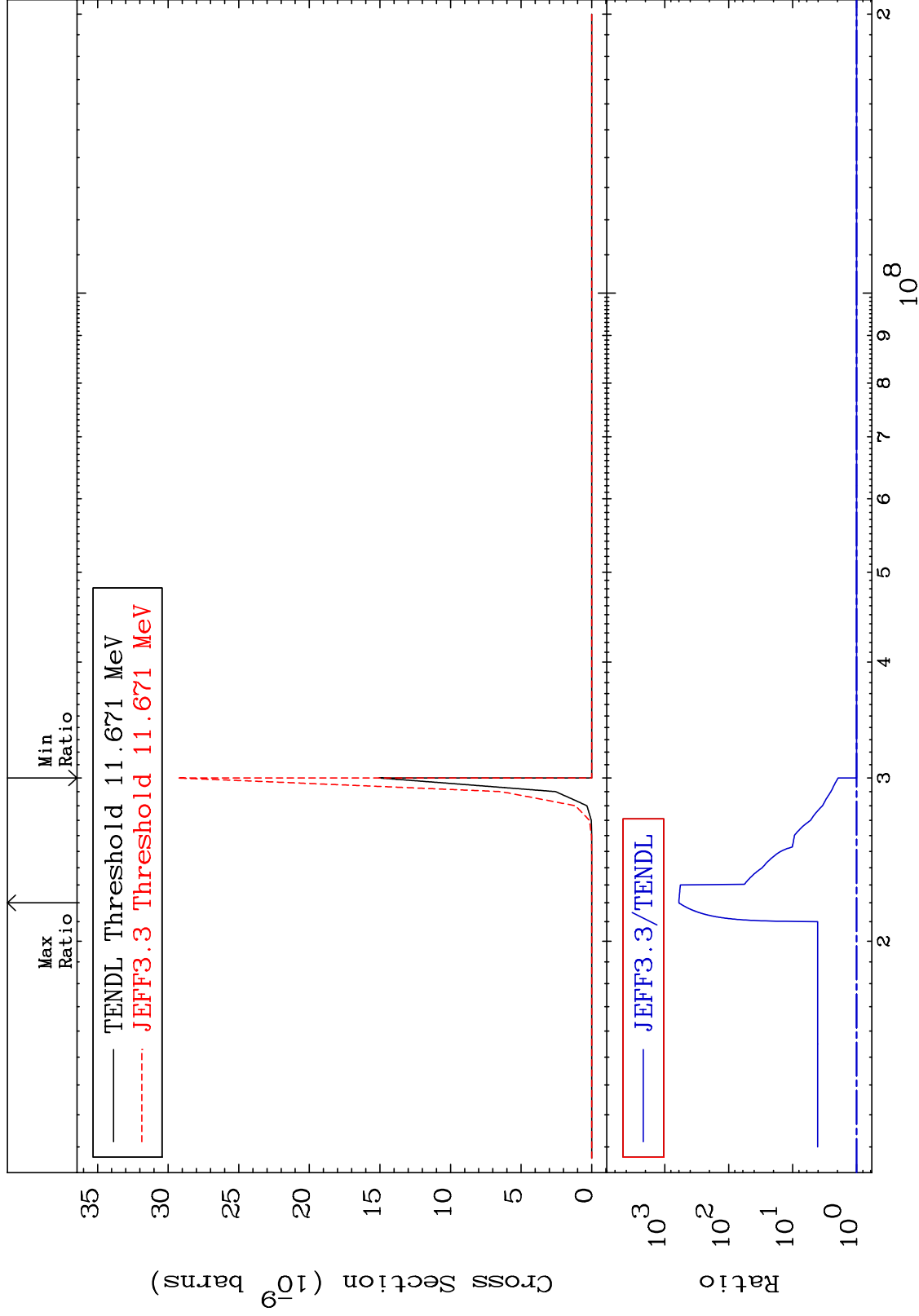
41-Nb-92

MAT 4122

(n, n') 2α:37-Rb-84g

41-Nb-92

Radionuclide Production Cross Section 0.000 To 9999. %

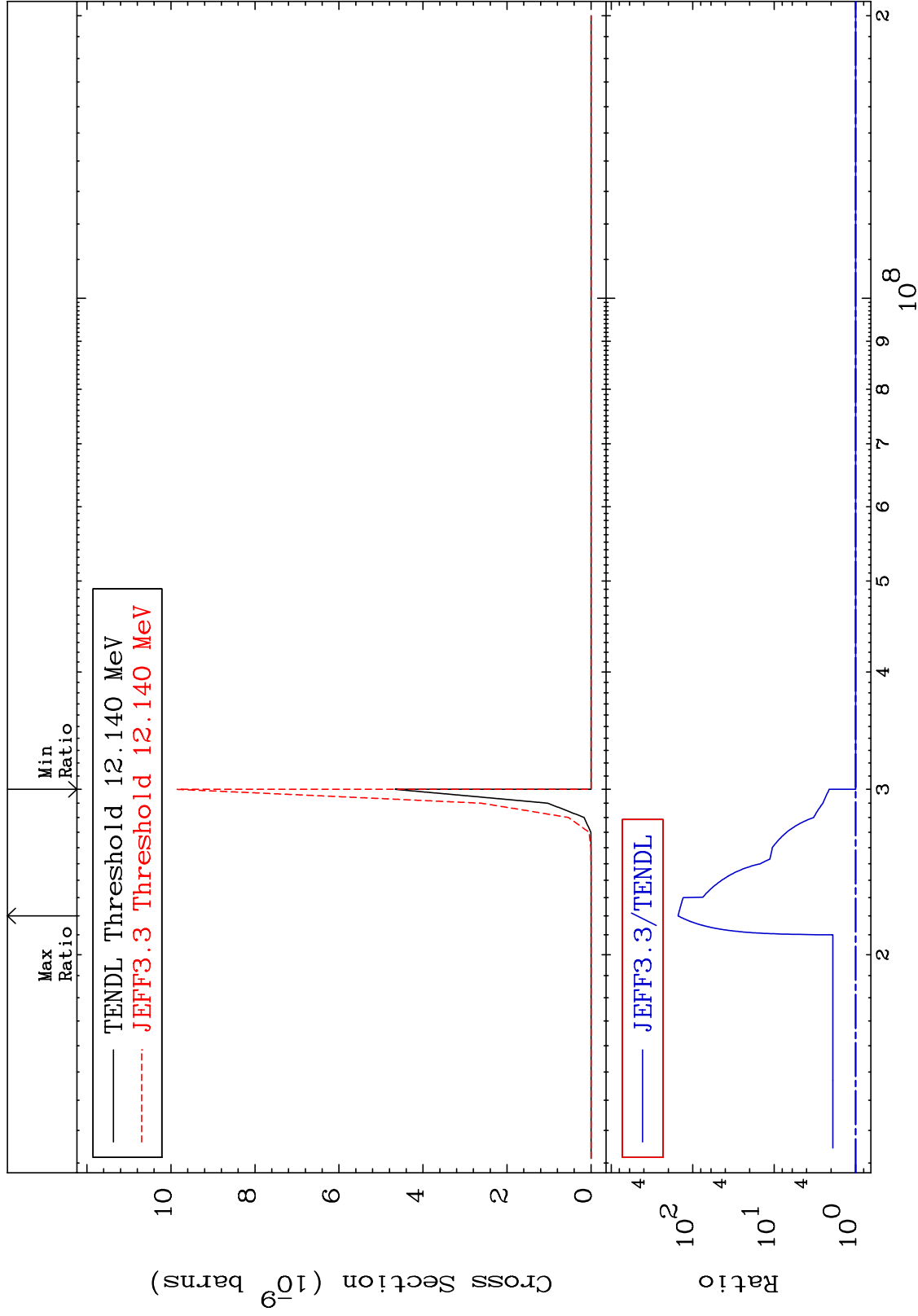


MAT 4122

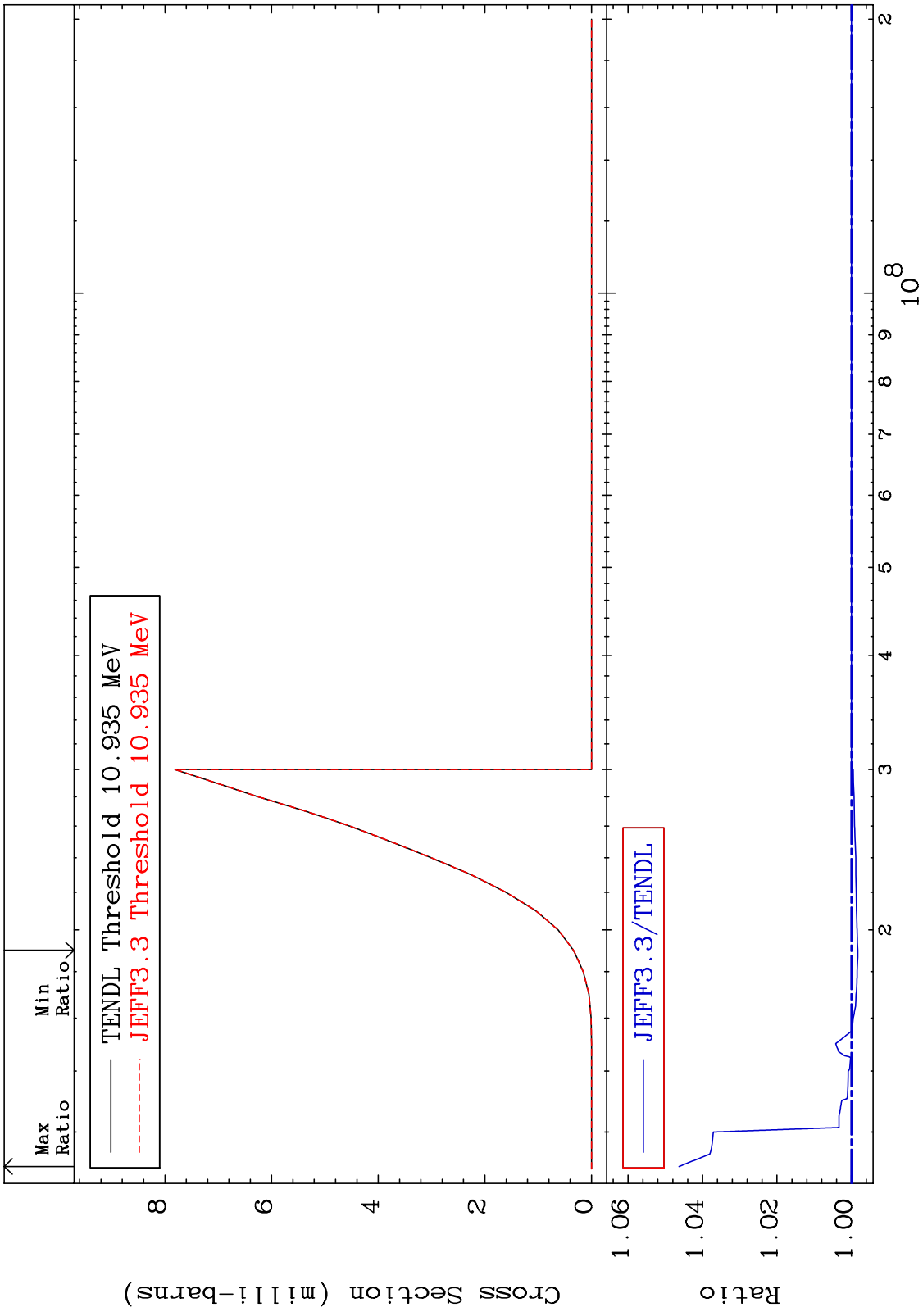
(n, n') 2α: 37-Rb-84m2

41-Nb-92

Radionuclide Production Cross Section 0.000 To 9999. %



MAT 4122 (n,n') d:40-Zr-90g 41-Nb-92
 Radionuclide Production Cross Section -0.171 To 4.631 %

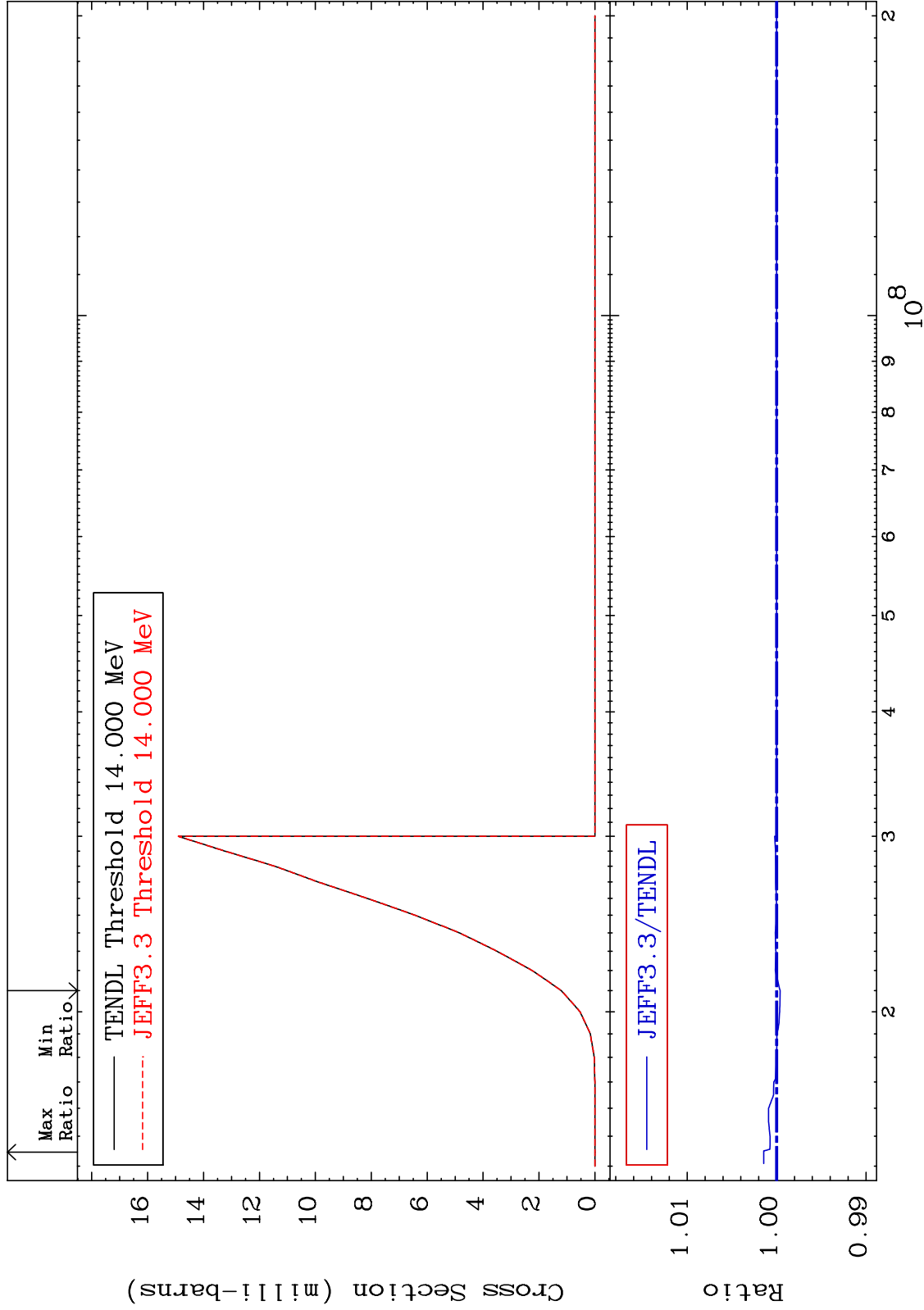


MAT 4122

(n, n') d:40-Zr-90m3

41-Nb-92

Radionuclide Production Cross Section -0.038 To 0.144 %

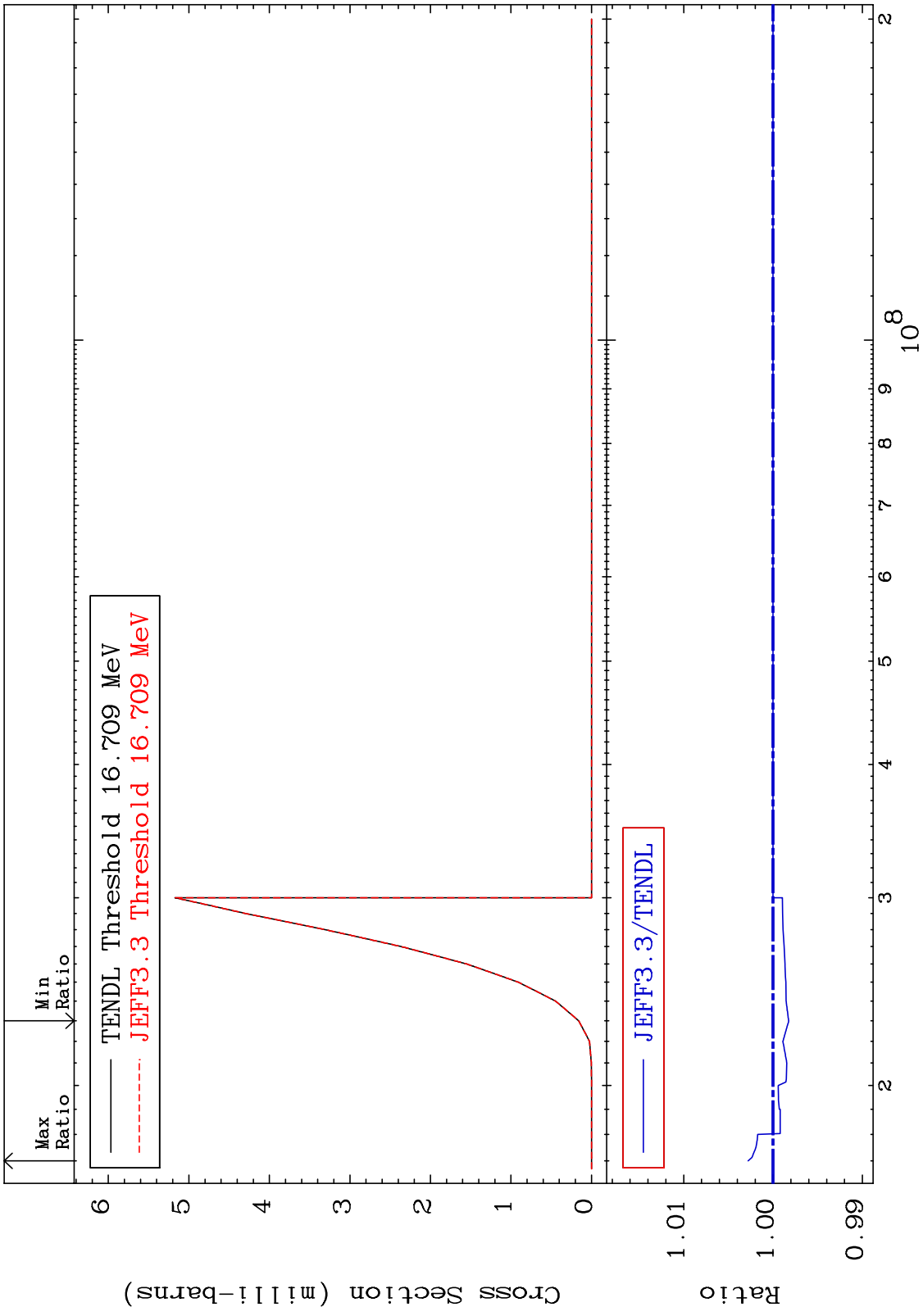


90

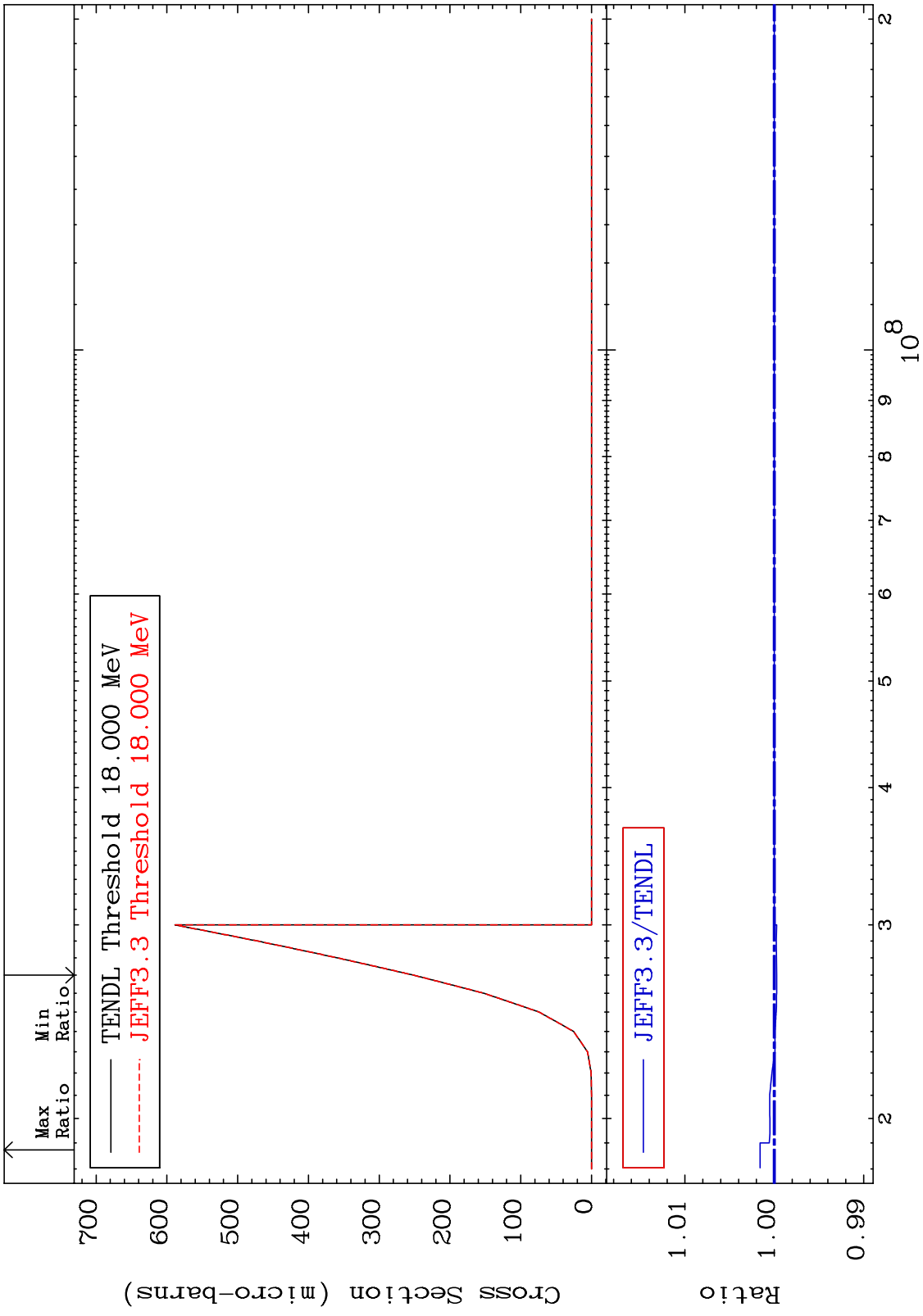
Incident Energy (eV)

41-Nb-92

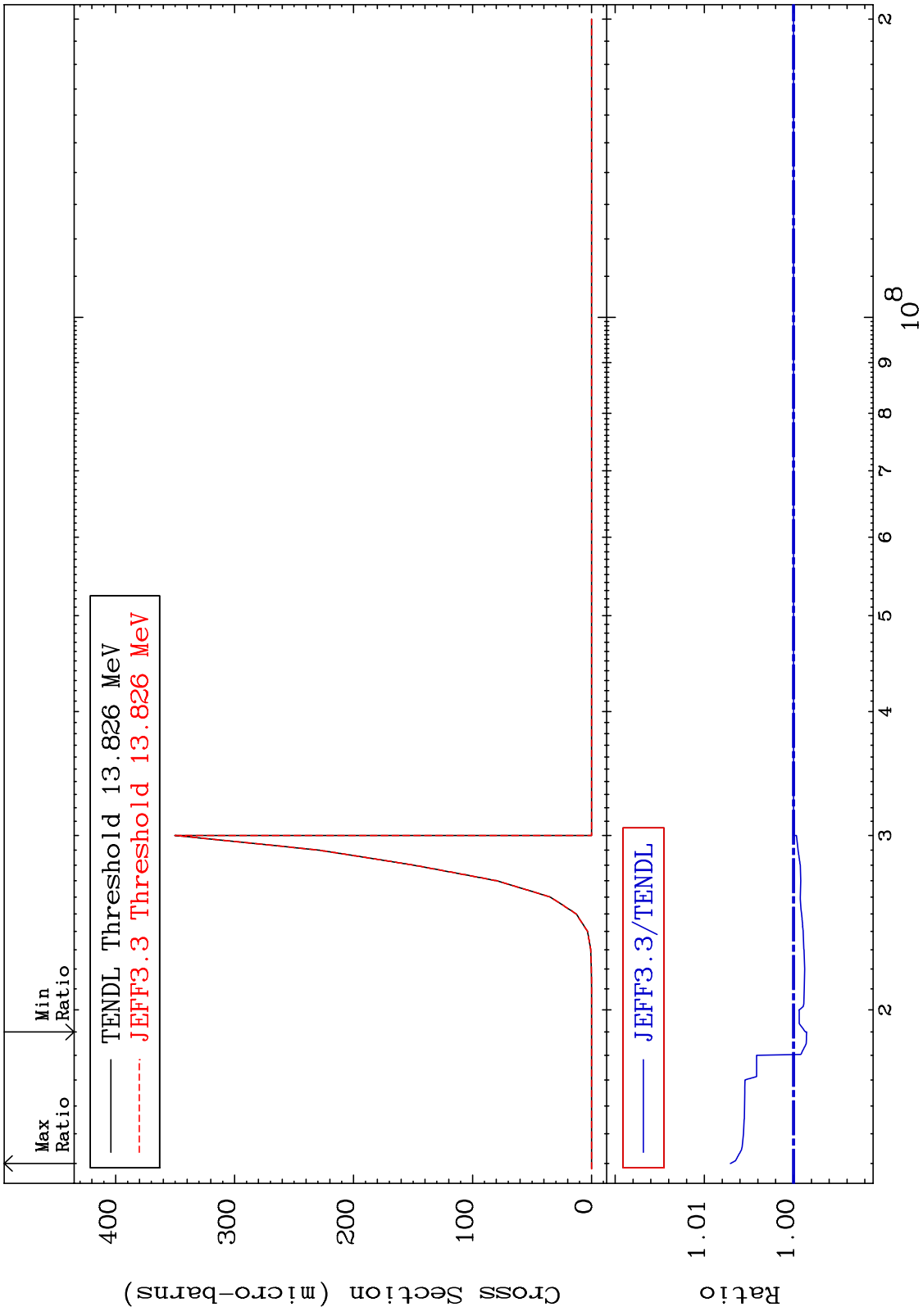
MAT 4122 (n,n') t:40-Zr-89g 41-Nb-92
 Radionuclide Production Cross Section -0.176 To 0.279 %

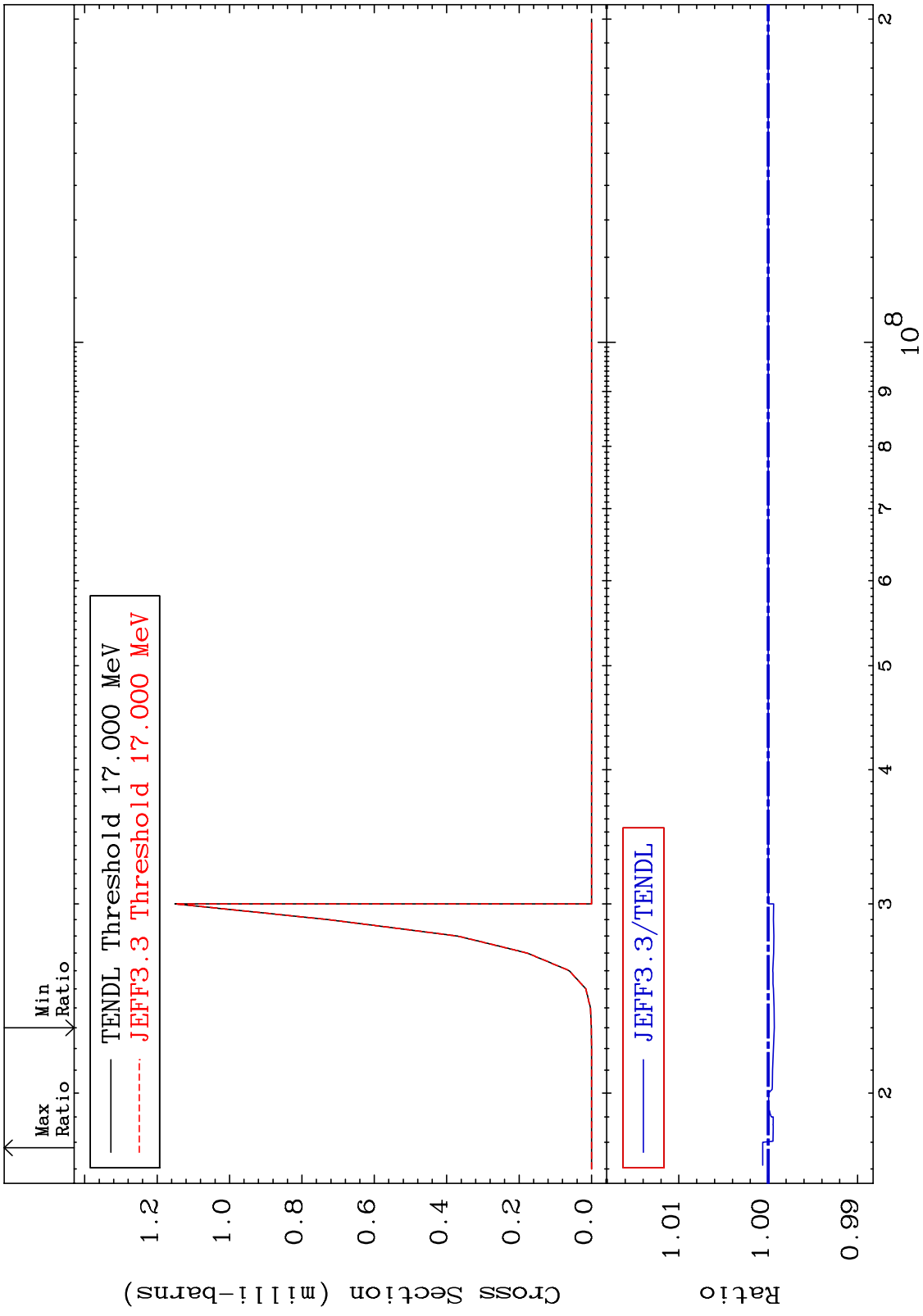


MAT 4122 (n,n') t:40-Zr-89m1 41-Nb-92
 Radionuclide Production Cross Section -0.027 To 0.159 %

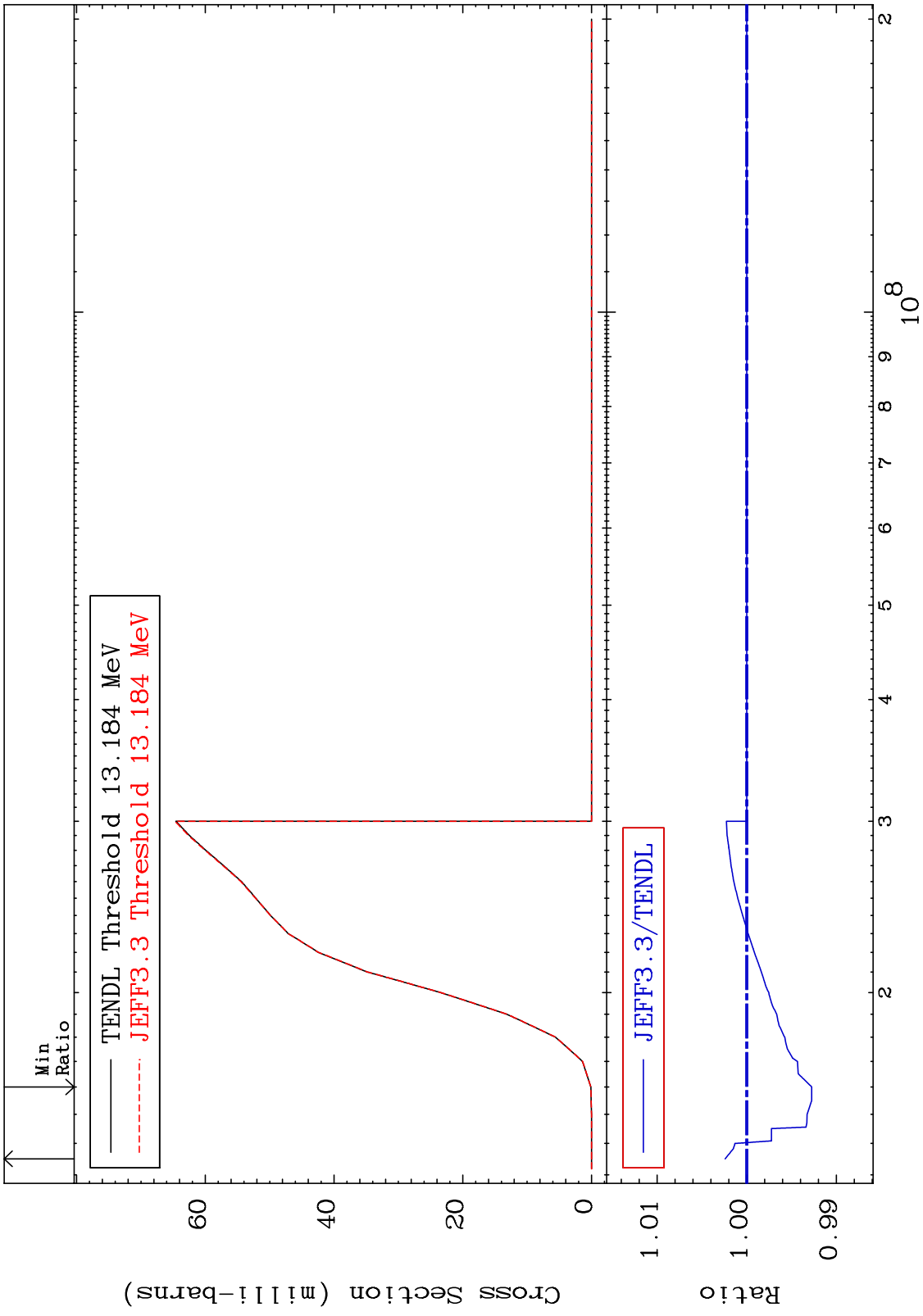


MAT 4122 (n,n') He-3:39-Y -89g 41-Nb-92
 Radionuclide Production Cross Section -0.146 To 0.708 %

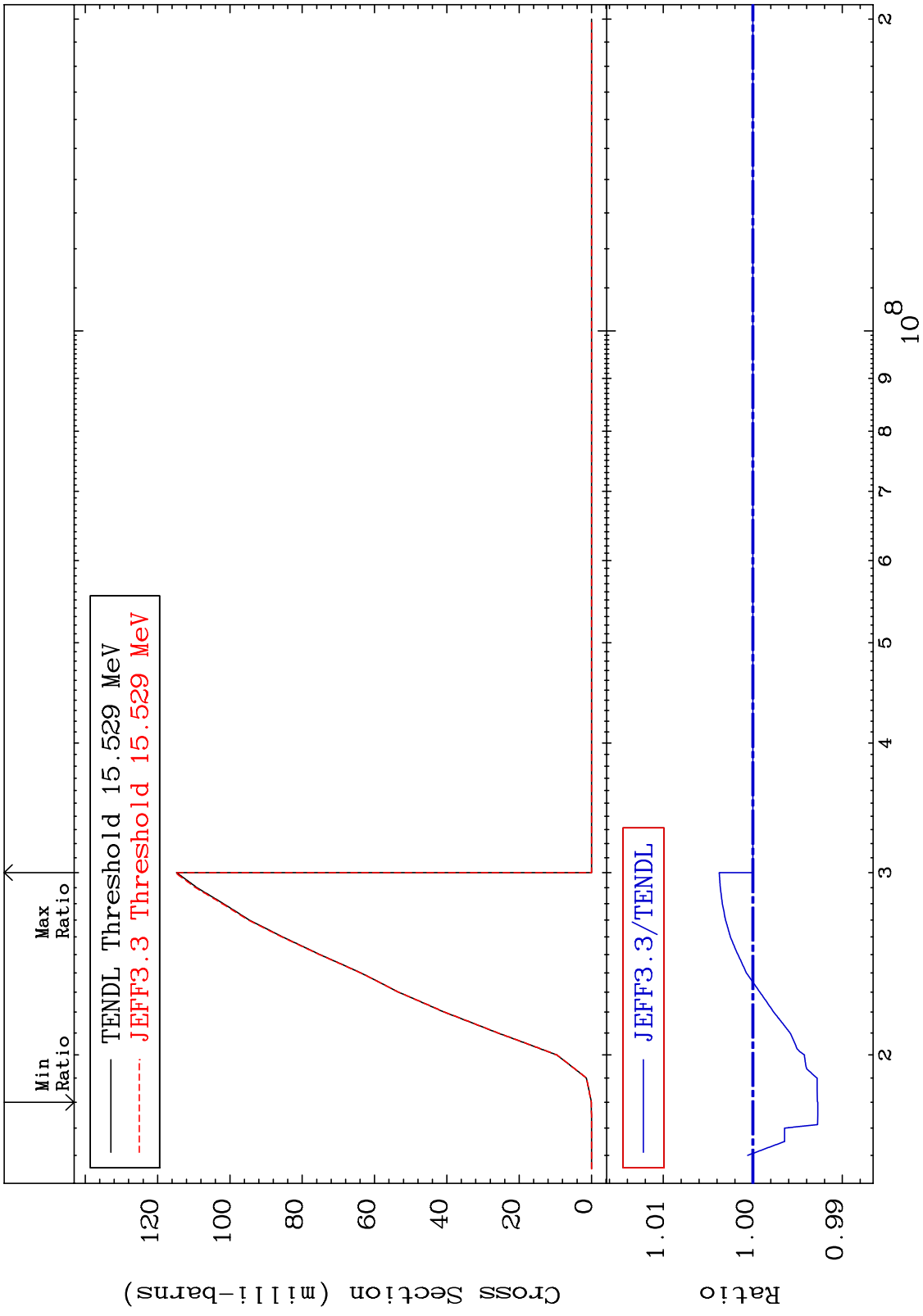




MAT 4122 (n,2n) p:40-Zr-90g 41-Nb-92
 Radionuclide Production Cross Section -0.726 To 0.240 %



MAT 4122 (n,2n) p:40-Zr-90m3 41-Nb-92
 Radionuclide Production Cross Section -0.724 To 0.376 %

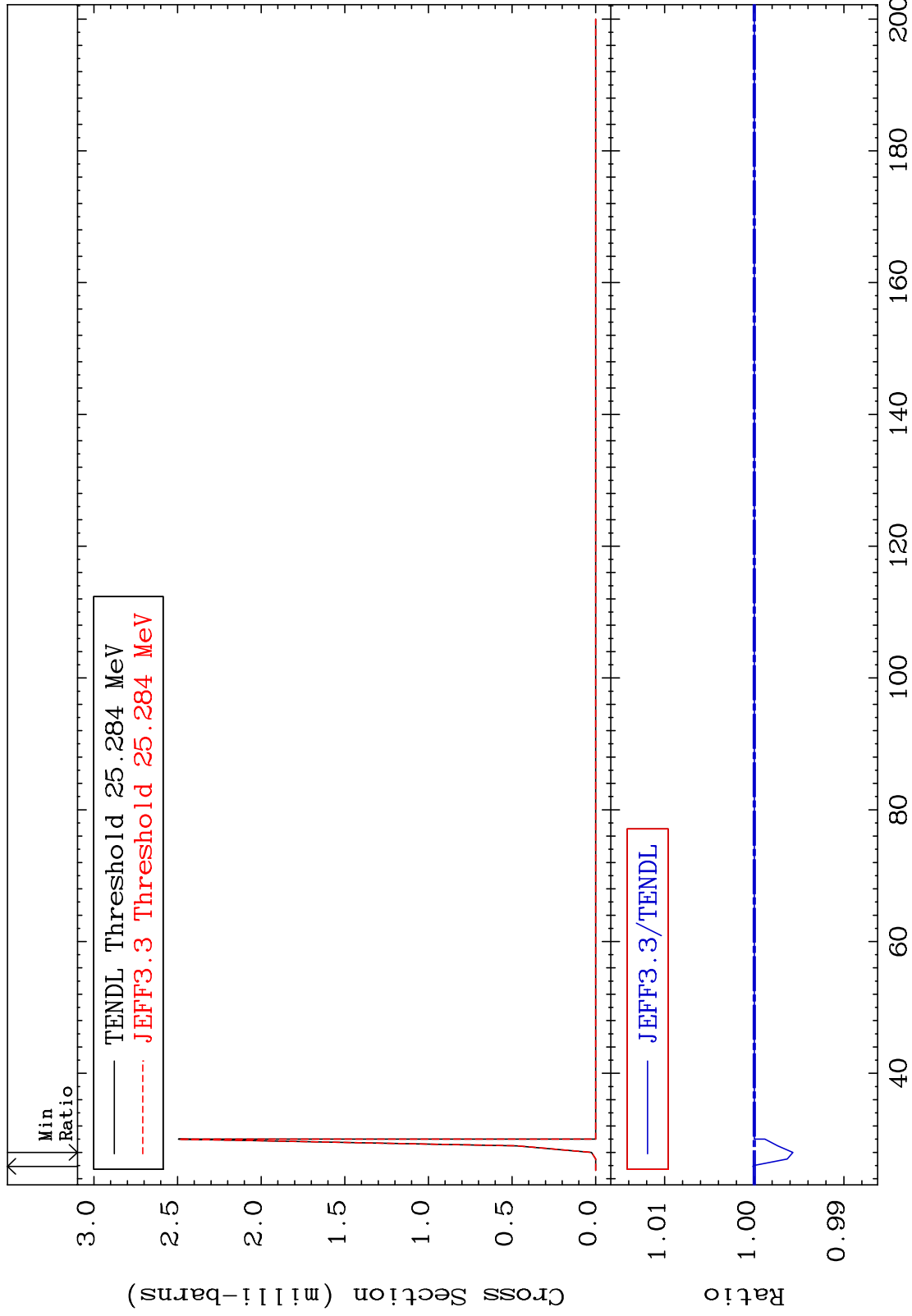


MAT 4122

(n,3n) p:40-Zr-89g

41-Nb-92

Radionuclide Production Cross Section -0.431 To 0.017 %

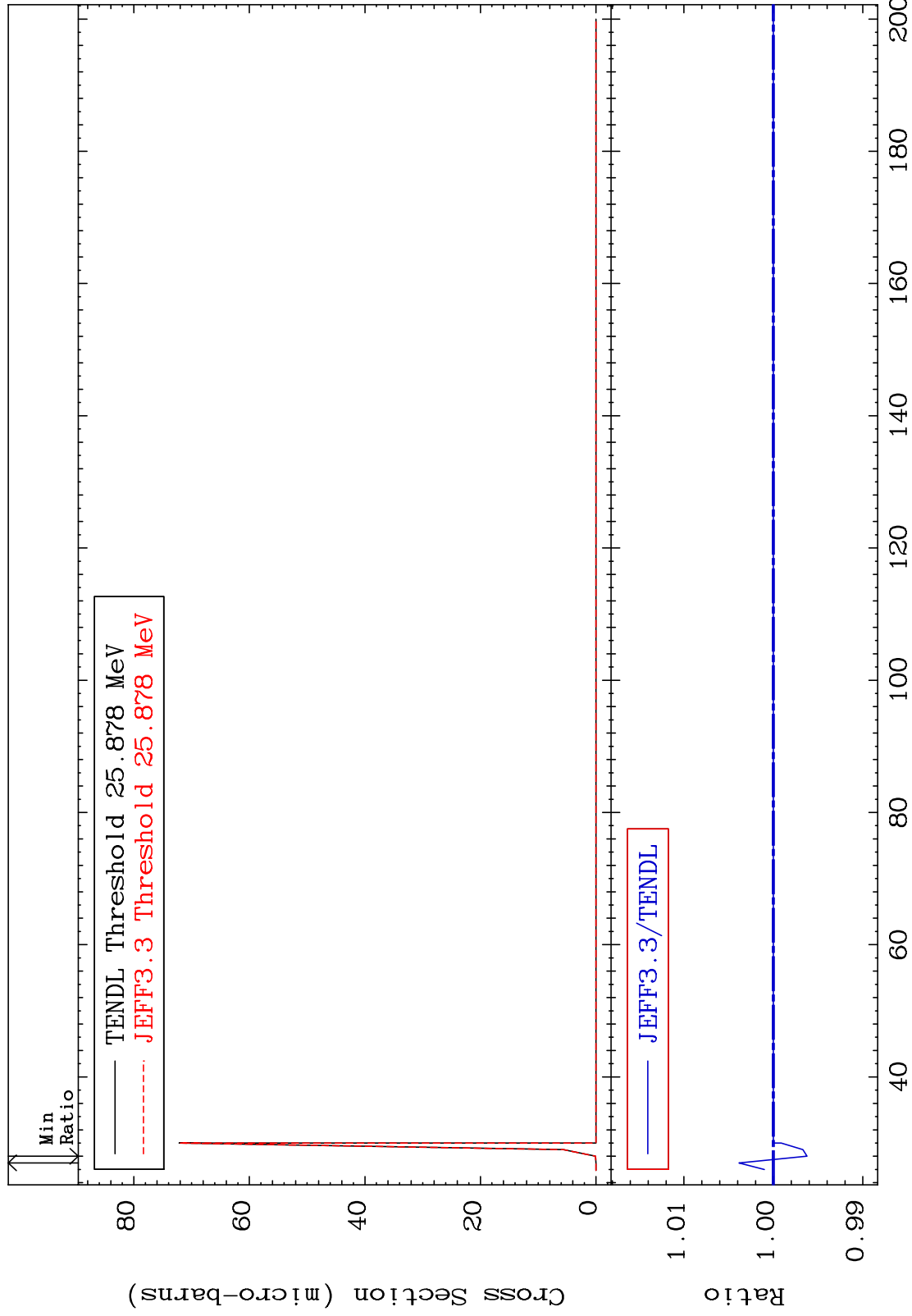


MAT 4122

(n,3n) p:40-Zr-89m1

41-Nb-92

Radionuclide Production Cross Section -0.375 To 0.385 %

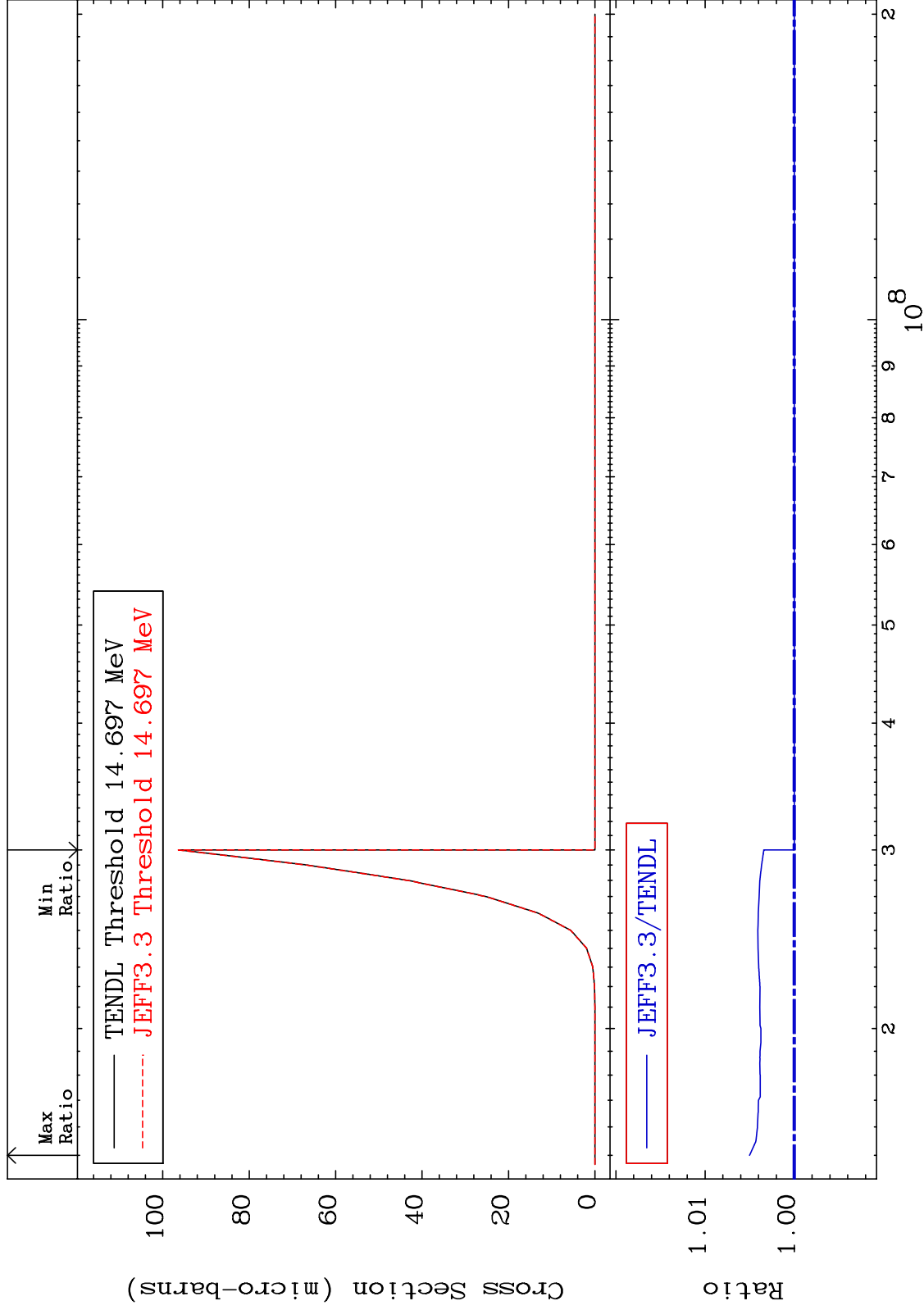


MAT 4122

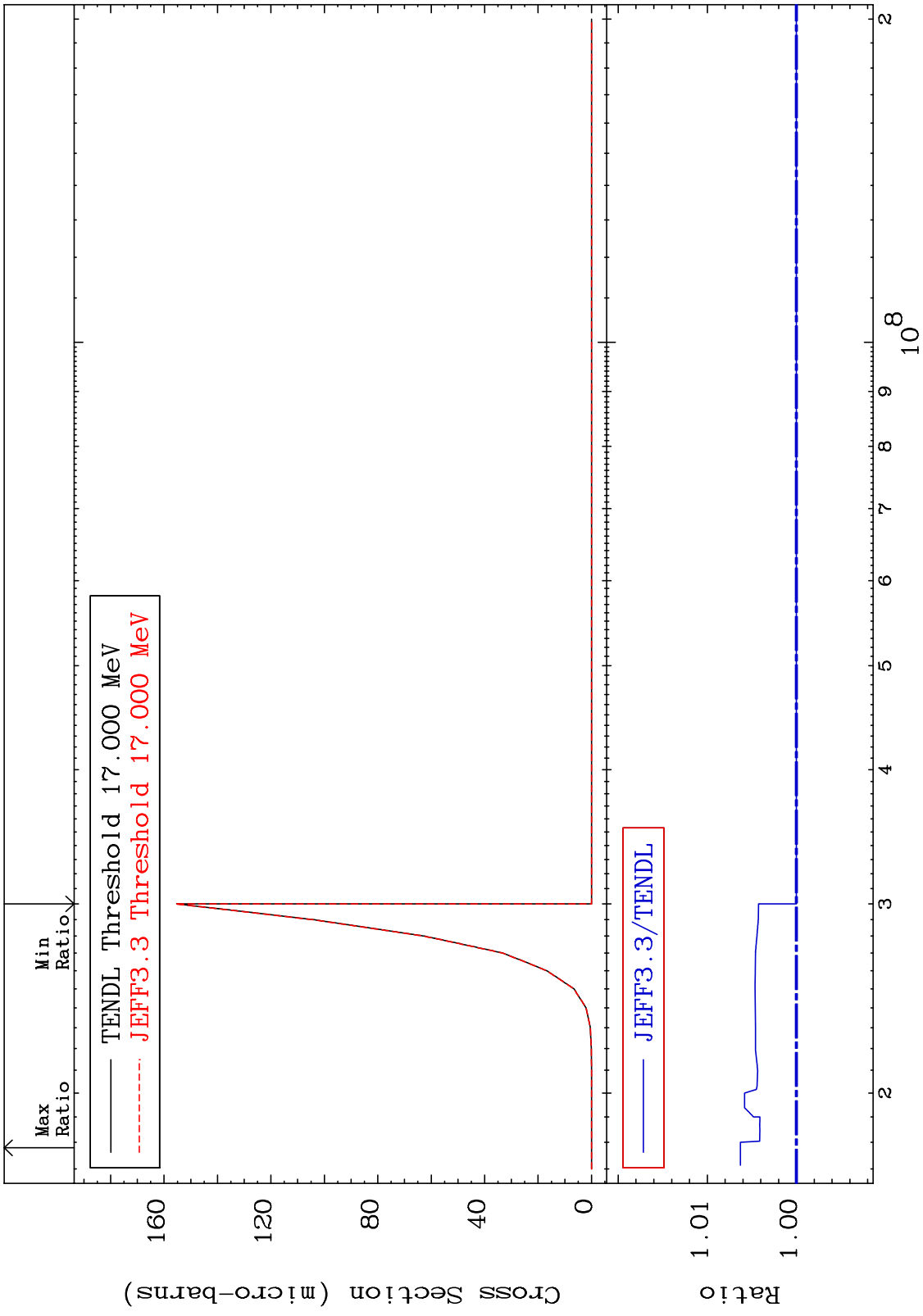
(n,2n) p:39-Y -90g

41-Nb-92

Radionuclide Production Cross Section 0.000 To 0.501 %



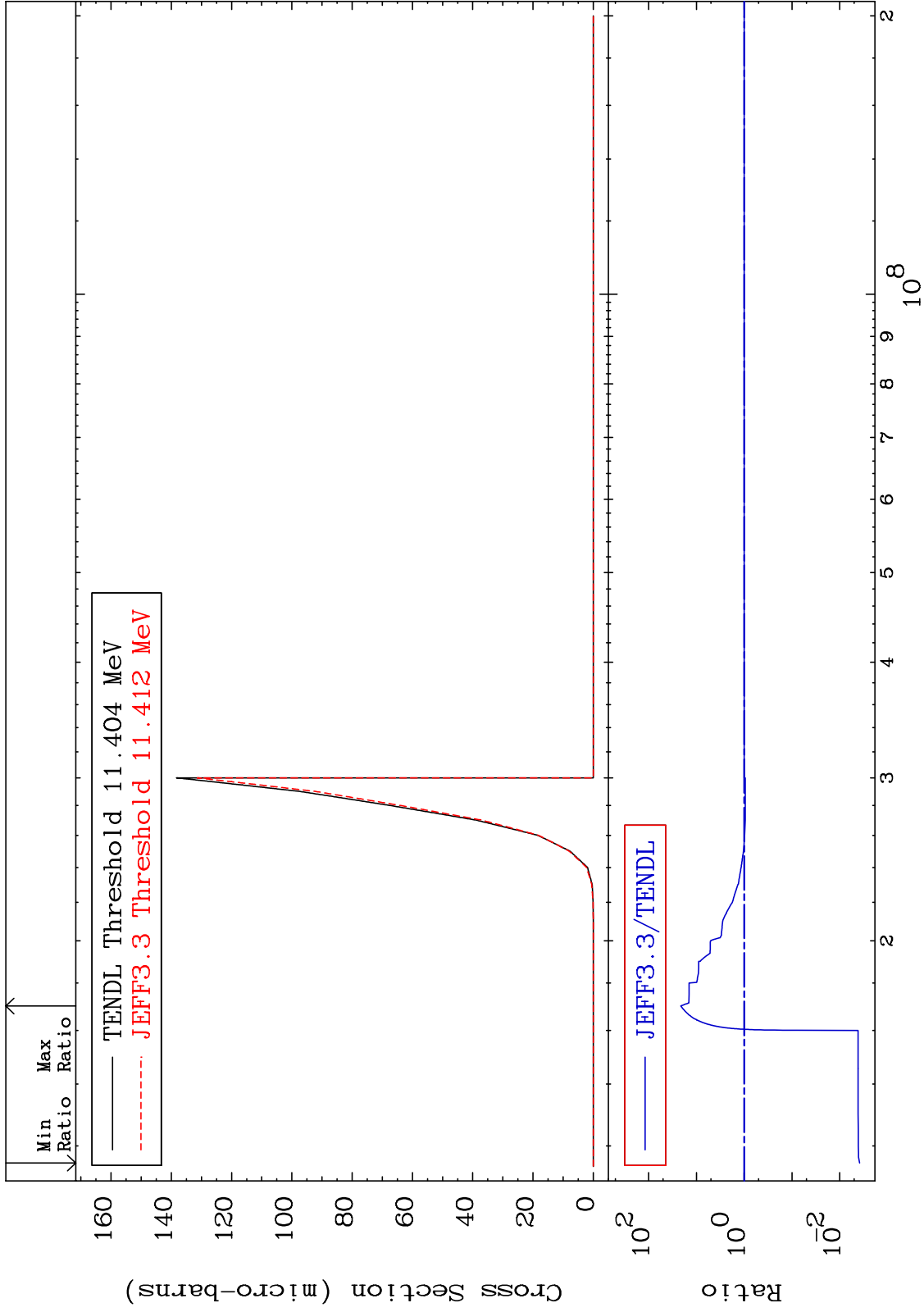
MAT 4122 (n,2n) p:39-Y -90m2 41-Nb-92
Radionuclide Production Cross Section 0.000 To 0.628 %



MAT 4122

(n,n') p α :38-Sr-87g
Radionuclide Production Cross Section -99.62 To 2024. %

41-Nb-92

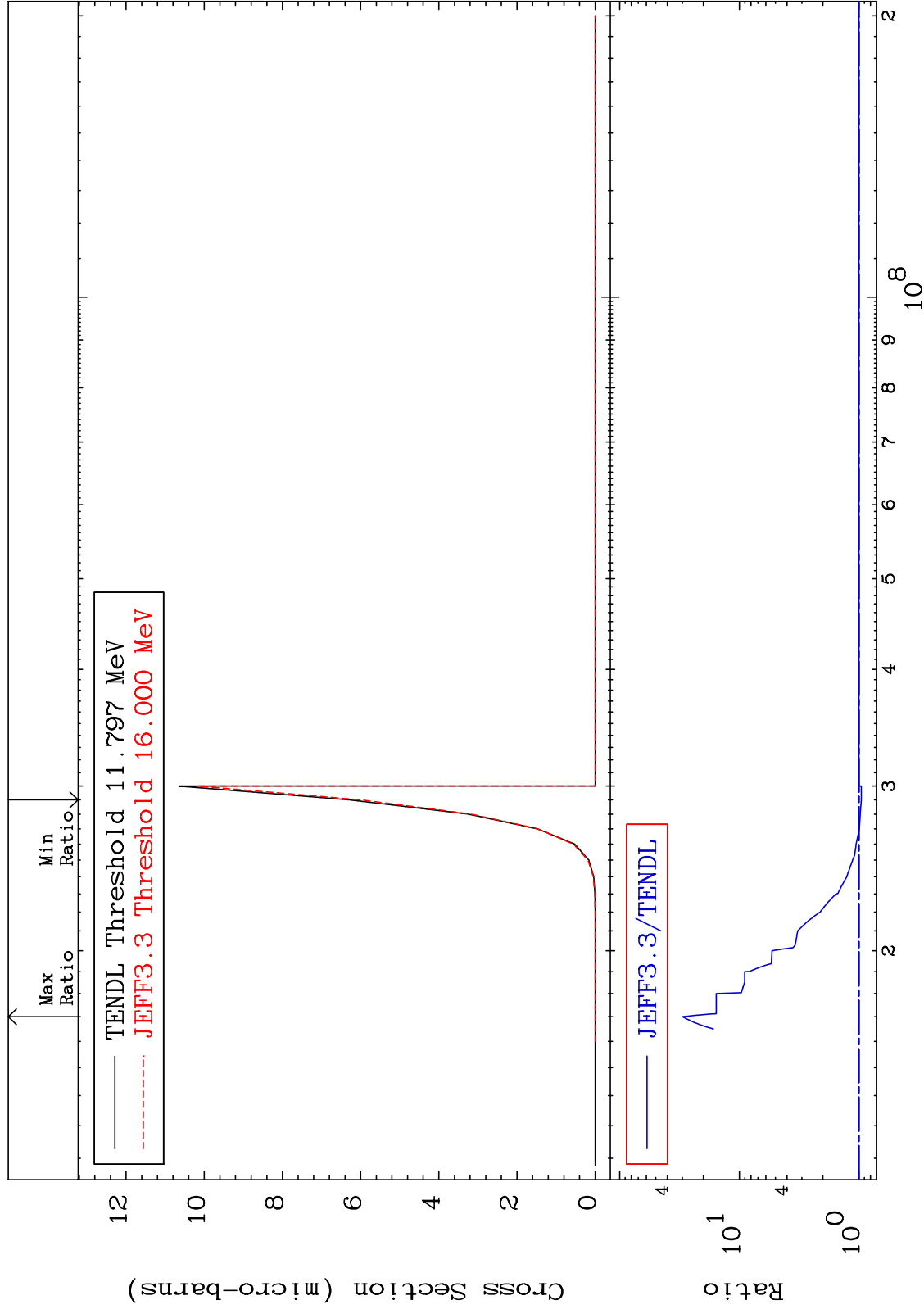


MAT 4122

(n,n') p α :38-Sr-87m1

41-Nb-92

Radionuclide Production Cross Section -4.524 To 2879. %

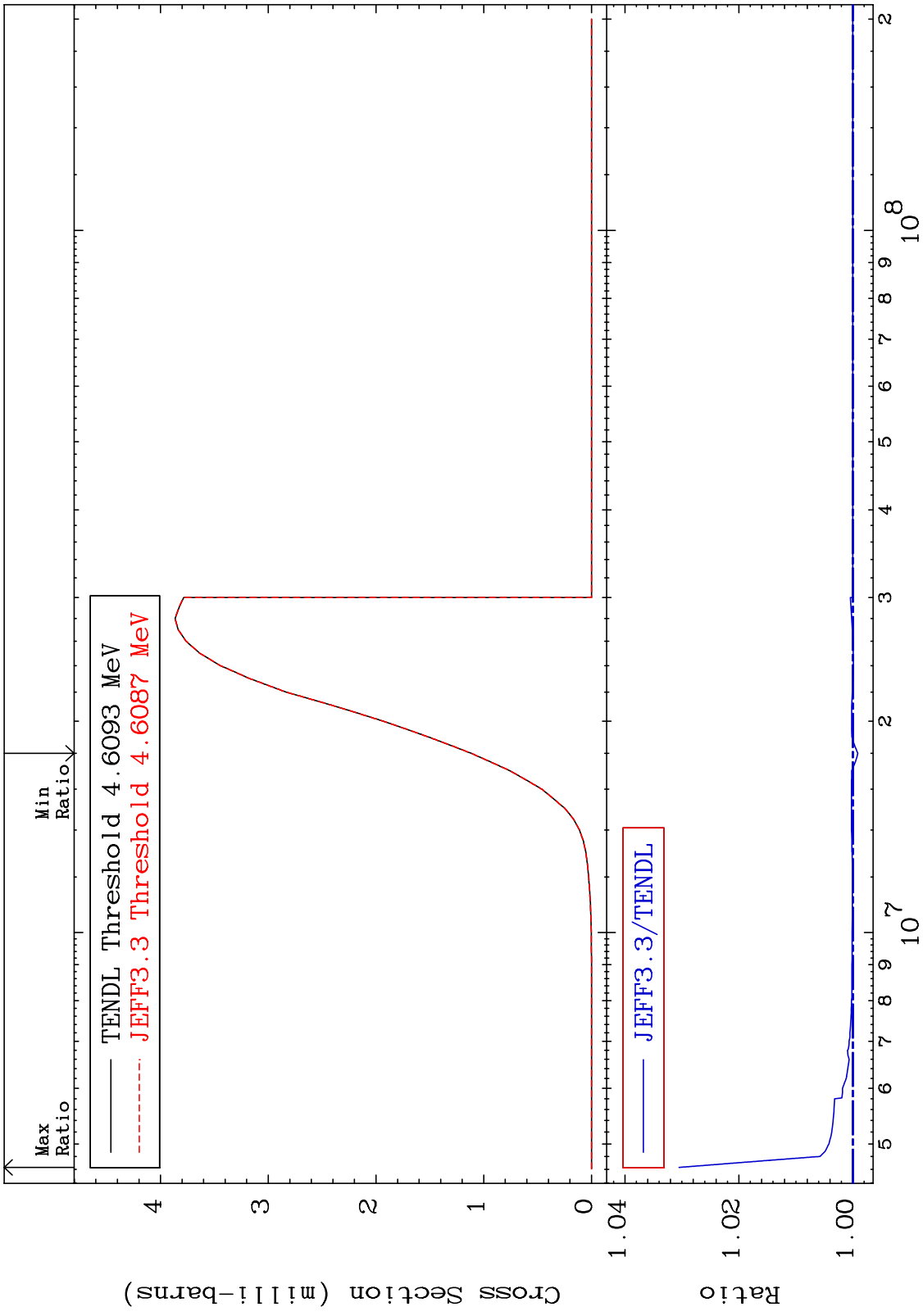


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Incident Energy (eV)

41-Nb-92

MAT 4122 (n, t) : 40-Zr-90g 41-Nb-92
 Radionuclide Production Cross Section -0.088 To 3.050 %

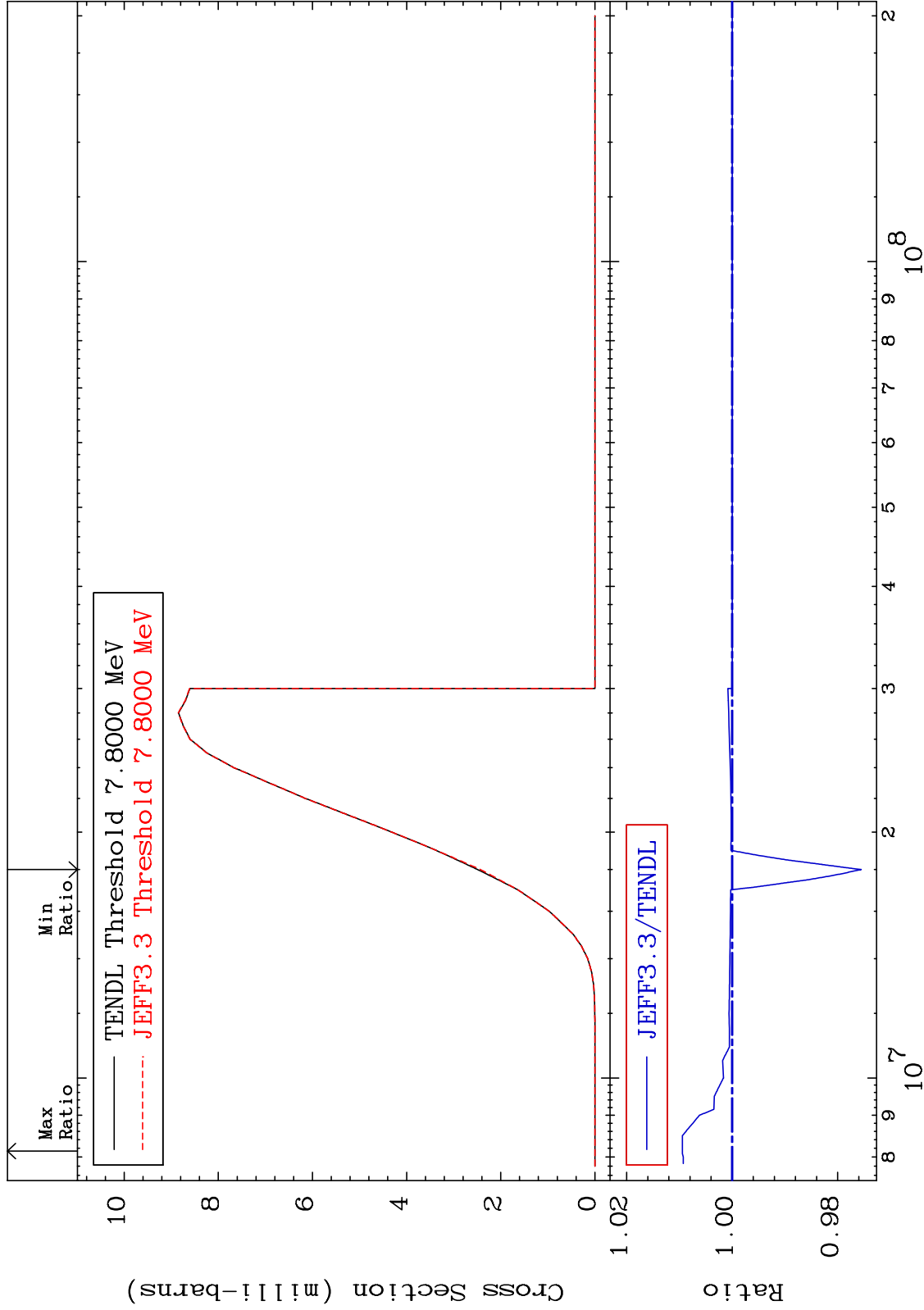


MAT 4122

(n,t):40-Zr-90m3

41-Nb-92

Radionuclide Production Cross Section -2.448 To 0.942 %

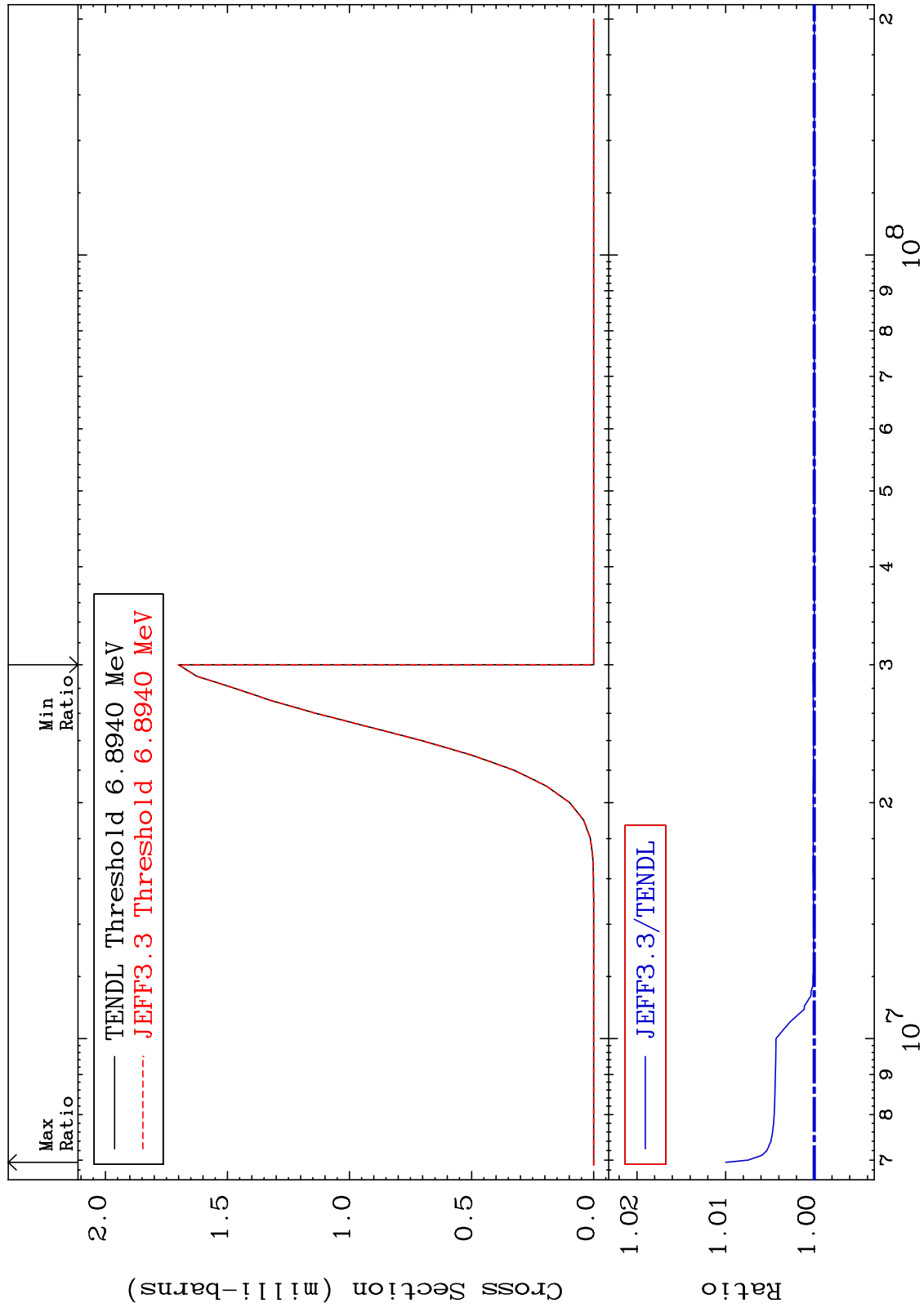


104

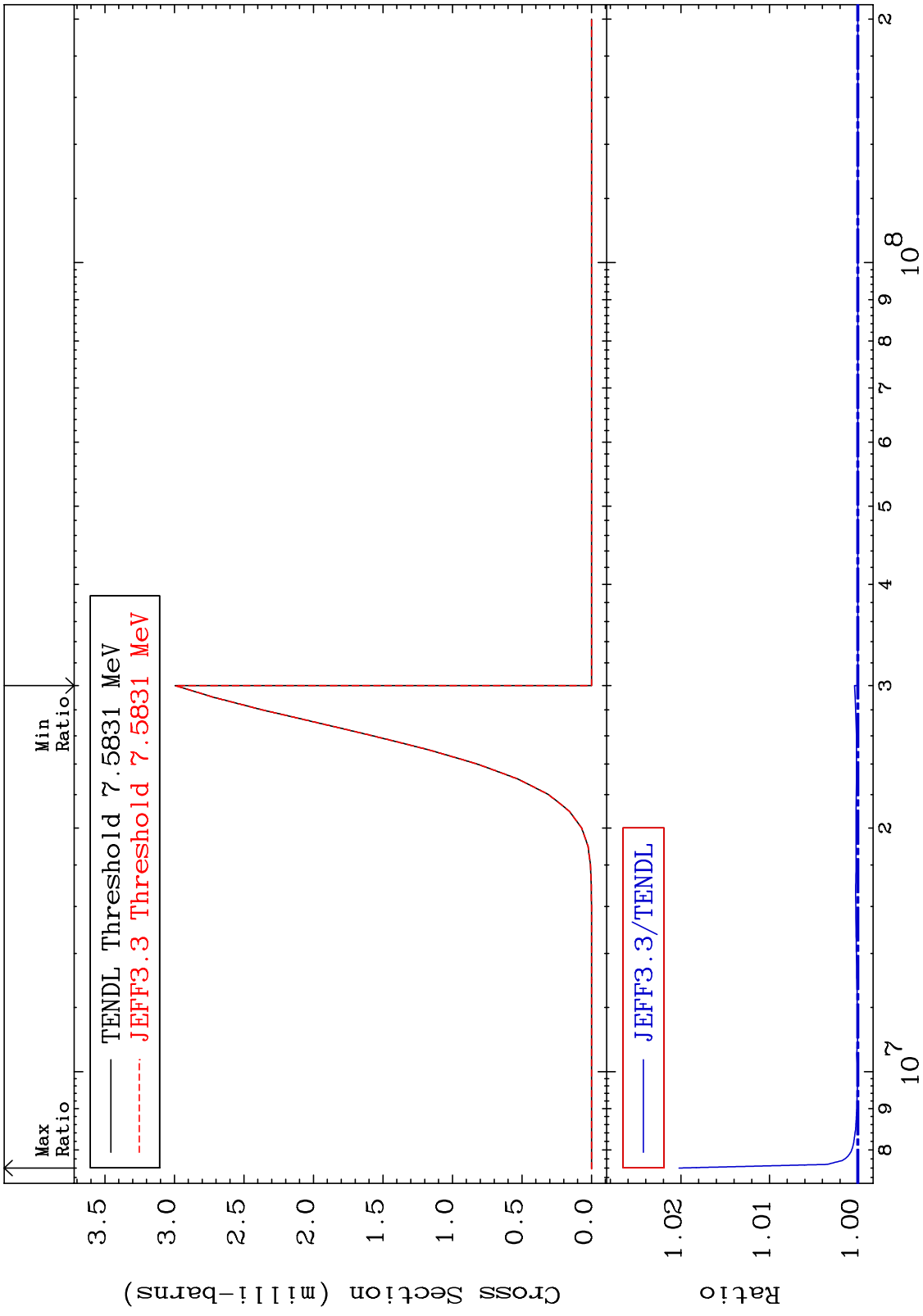
Incident Energy (eV)

41-Nb-92

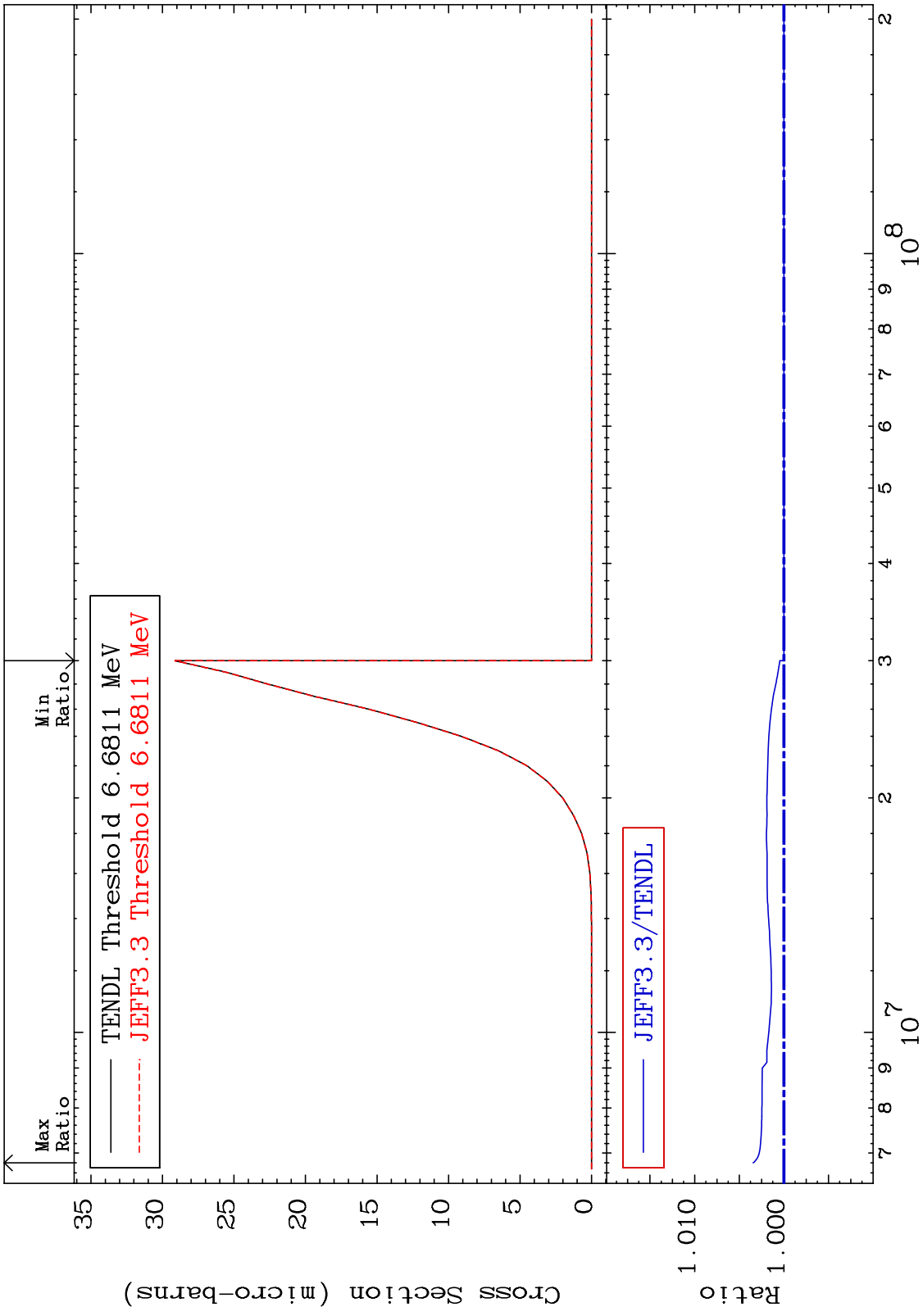
MAT 4122 (n,He-3):39-Y -90g 41-Nb-92
Radionuclide Production Cross Section 0.000 To 0.999 %



MAT 4122 (n, He-3):39-Y -90m2 41-Nb-92
 Radionuclide Production Cross Section 0.000 To 2.023 %



MAT 4122 (n,2p):39-Y -91g 41-Nb-92
Radionuclide Production Cross Section 0.000 To 0.346 %

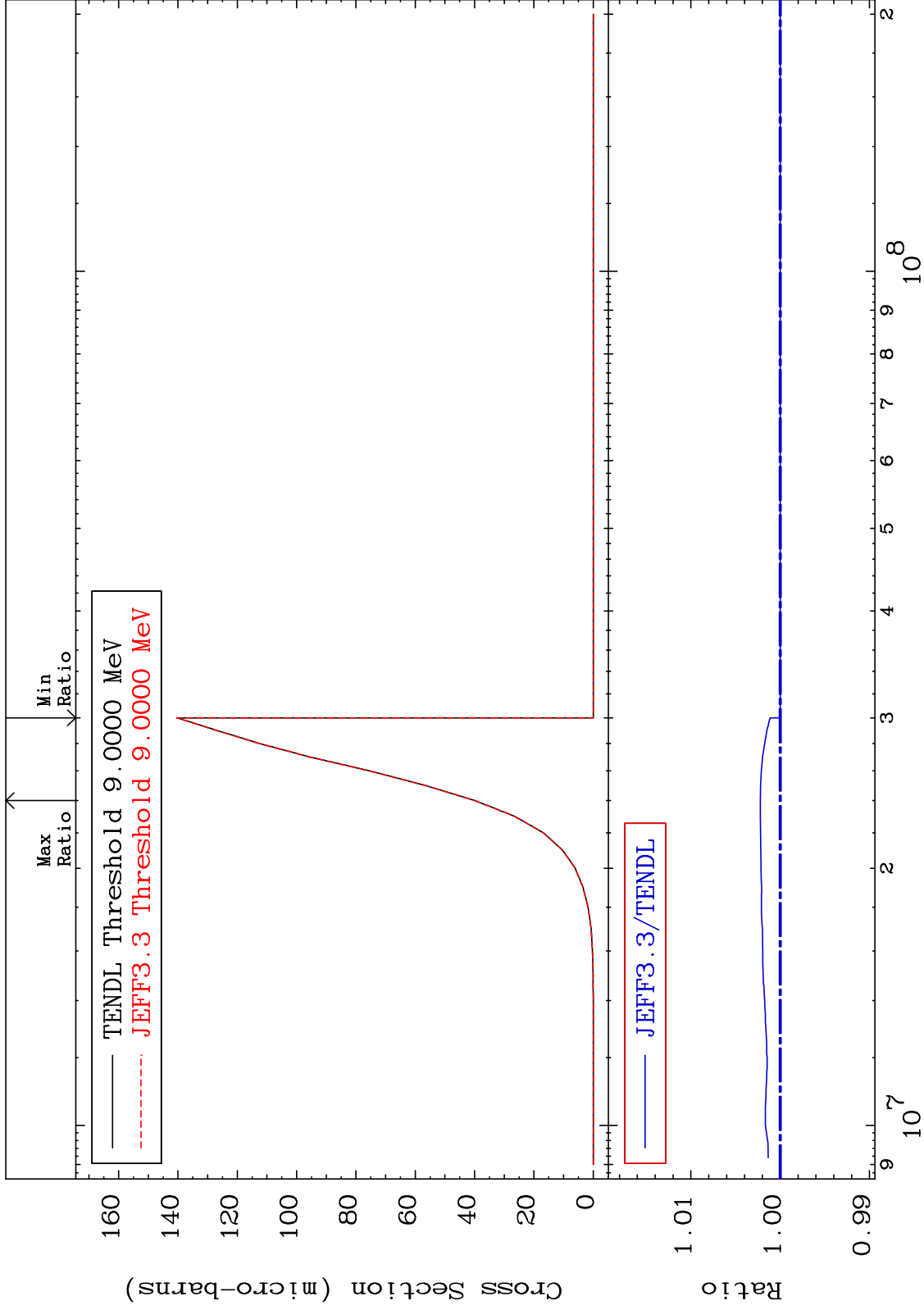


MAT 4122

(n,2p):39-Y -91m1

41-Nb-92

Radionuclide Production Cross Section 0.000 To 0.224 %



108

Incident Energy (eV)

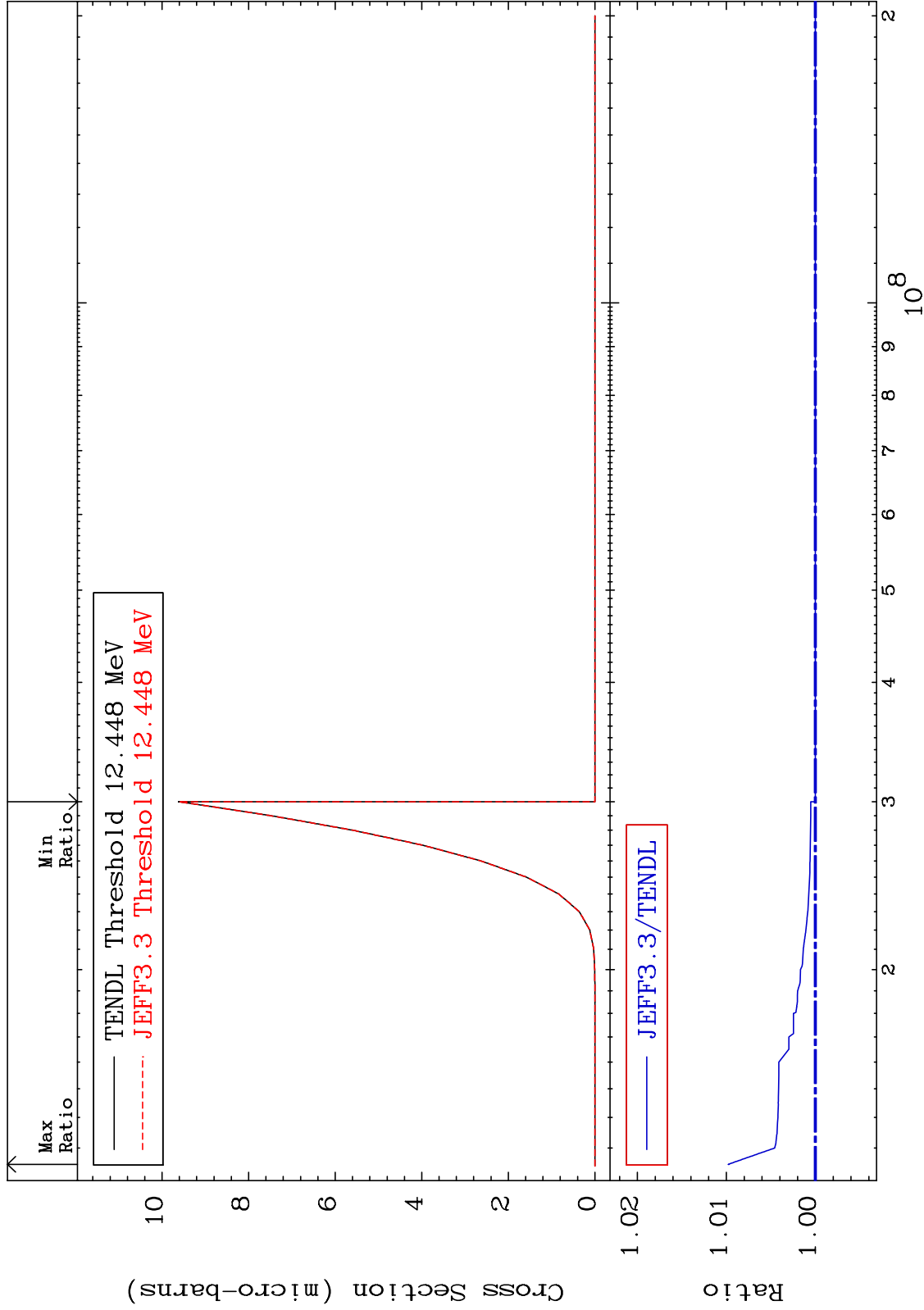
41-Nb-92

MAT 4122

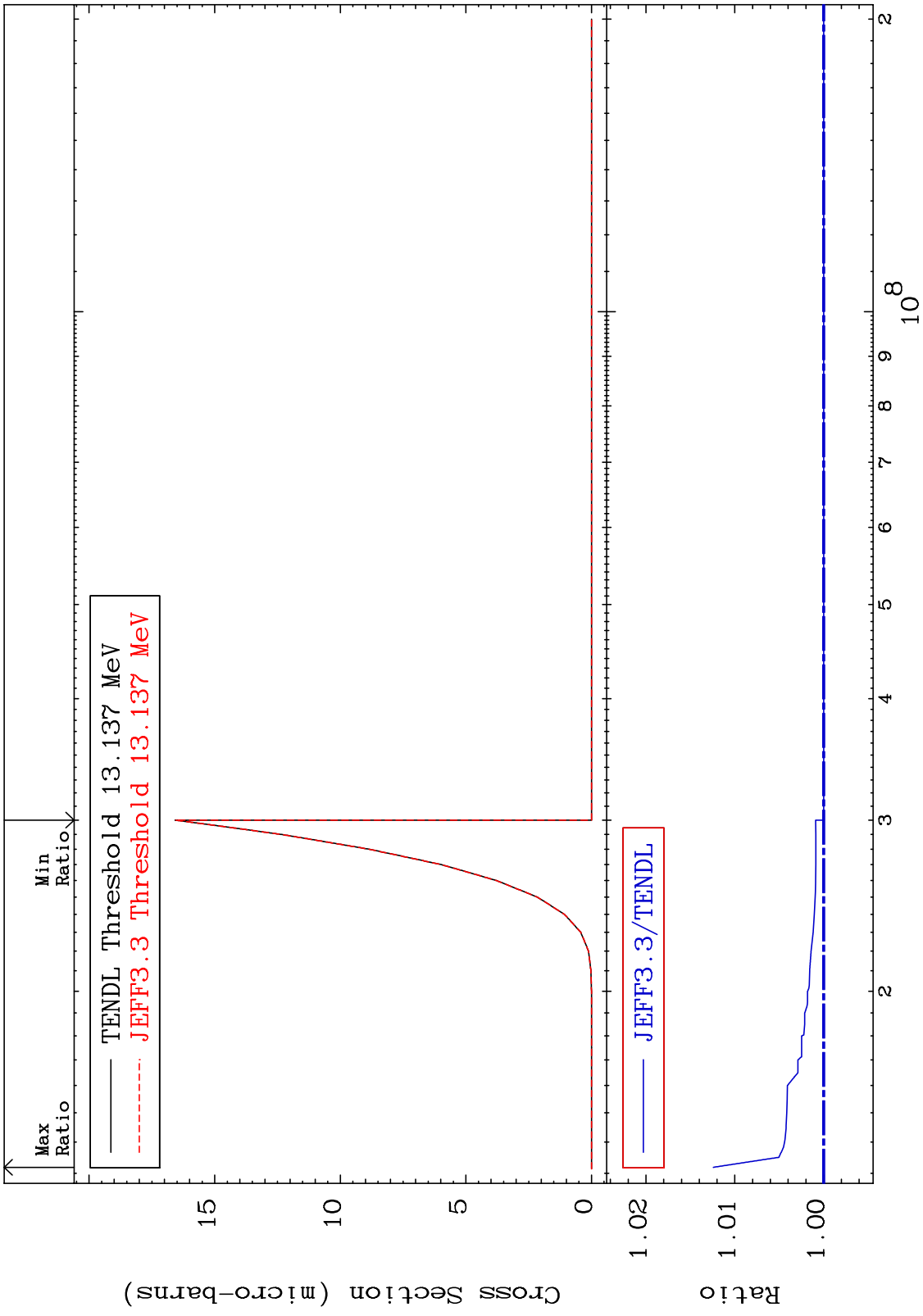
(n,p) d:39-Y -90g

41-Nb-92

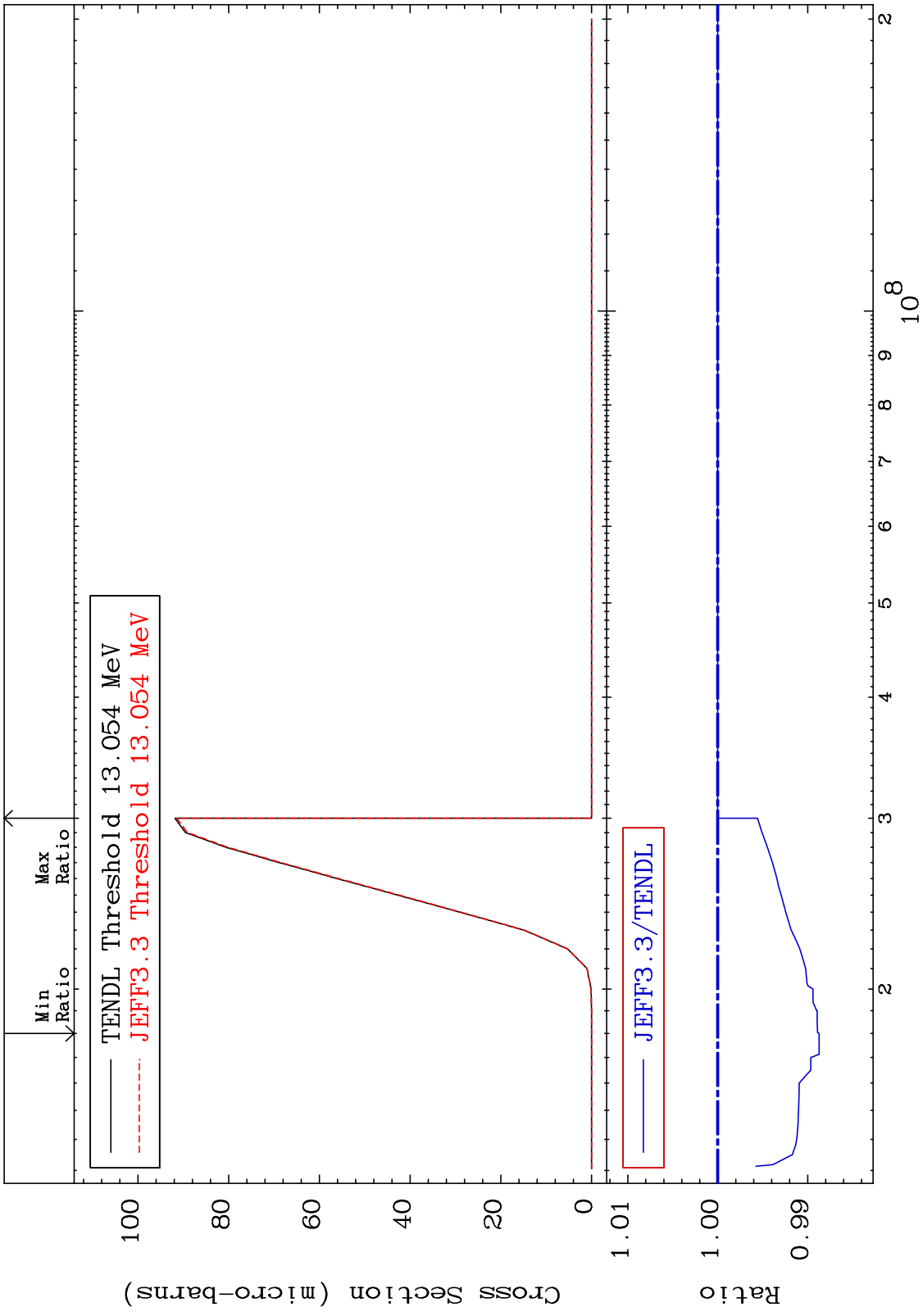
Radionuclide Production Cross Section 0.000 To 0.979 %



MAT 4122 (n,p) d:39-Y -90m2 41-Nb-92
 Radionuclide Production Cross Section 0.000 To 1.243 %



MAT 4122 (n,p) t:39-Y -89g 41-Nb-92
 Radionuclide Production Cross Section -1.128 To 0.000 %

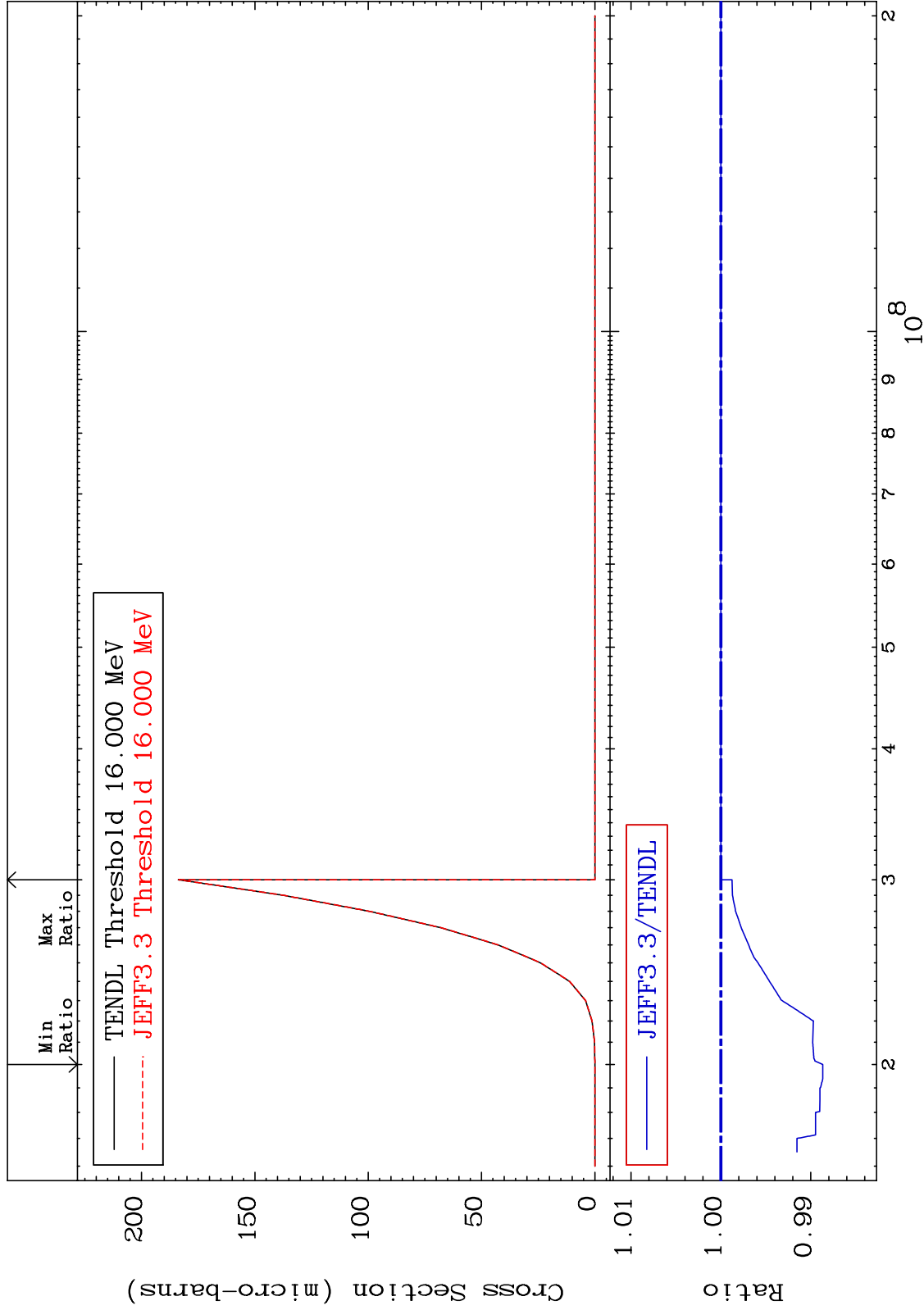


MAT 4122

(n,p) t:39-Y -89m1

41-Nb-92

Radionuclide Production Cross Section -1.133 To 0.000 %



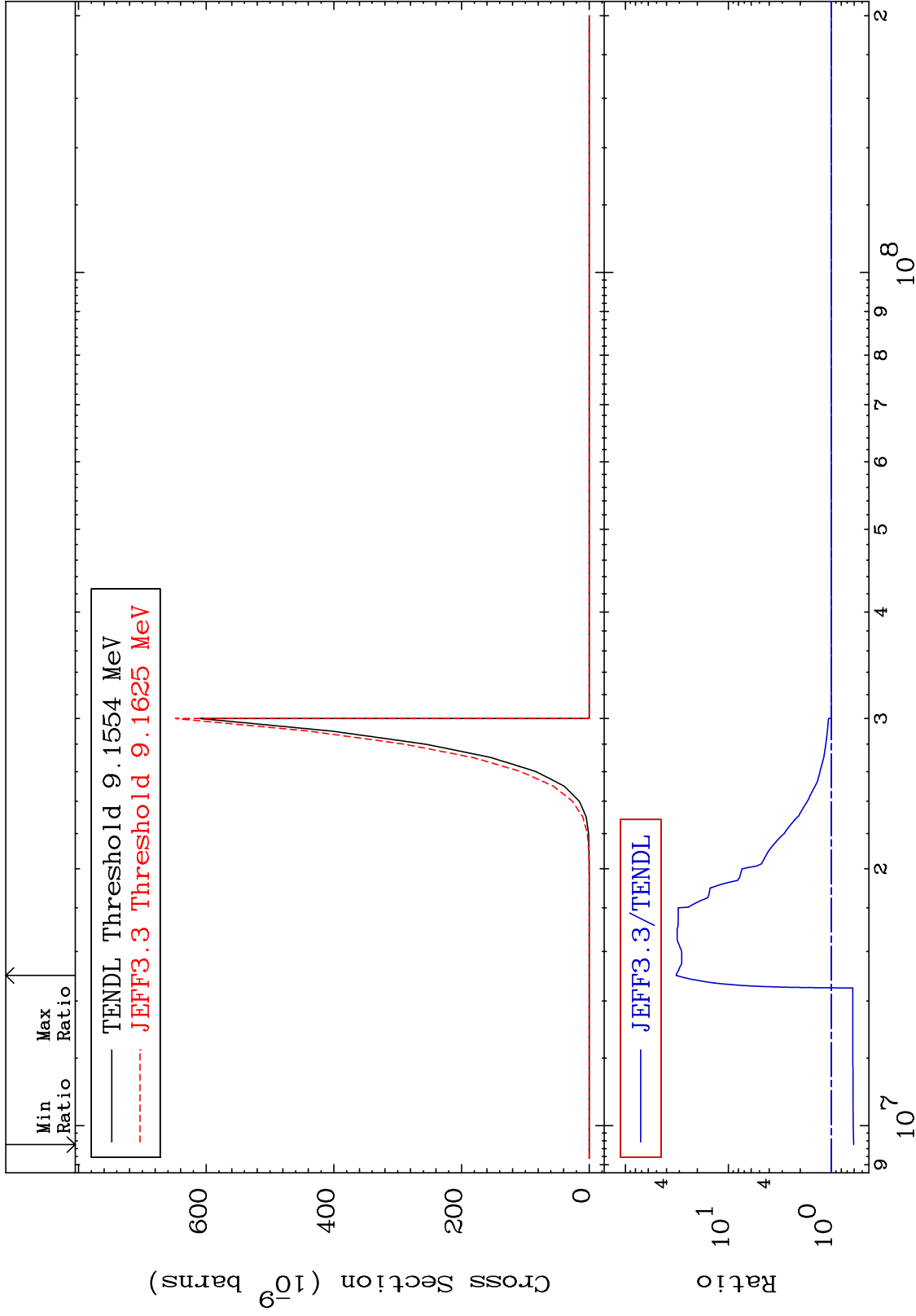
112

Incident Energy (eV)

41-Nb-92

MAT 4122

(n,d) α :38-Sr-87g 41-Nb-92
Radionuclide Production Cross Section -39.55 To 3122. %



113

Incident Energy (eV)

41-Nb-92

MAT 4122

(n, d) α :38-Sr-87m1

41-Nb-92

Radionuclide Production Cross Section 0.000 To 6623. %

