

Program Complot
(Version 2018-1)

by

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(Present Contact Information)

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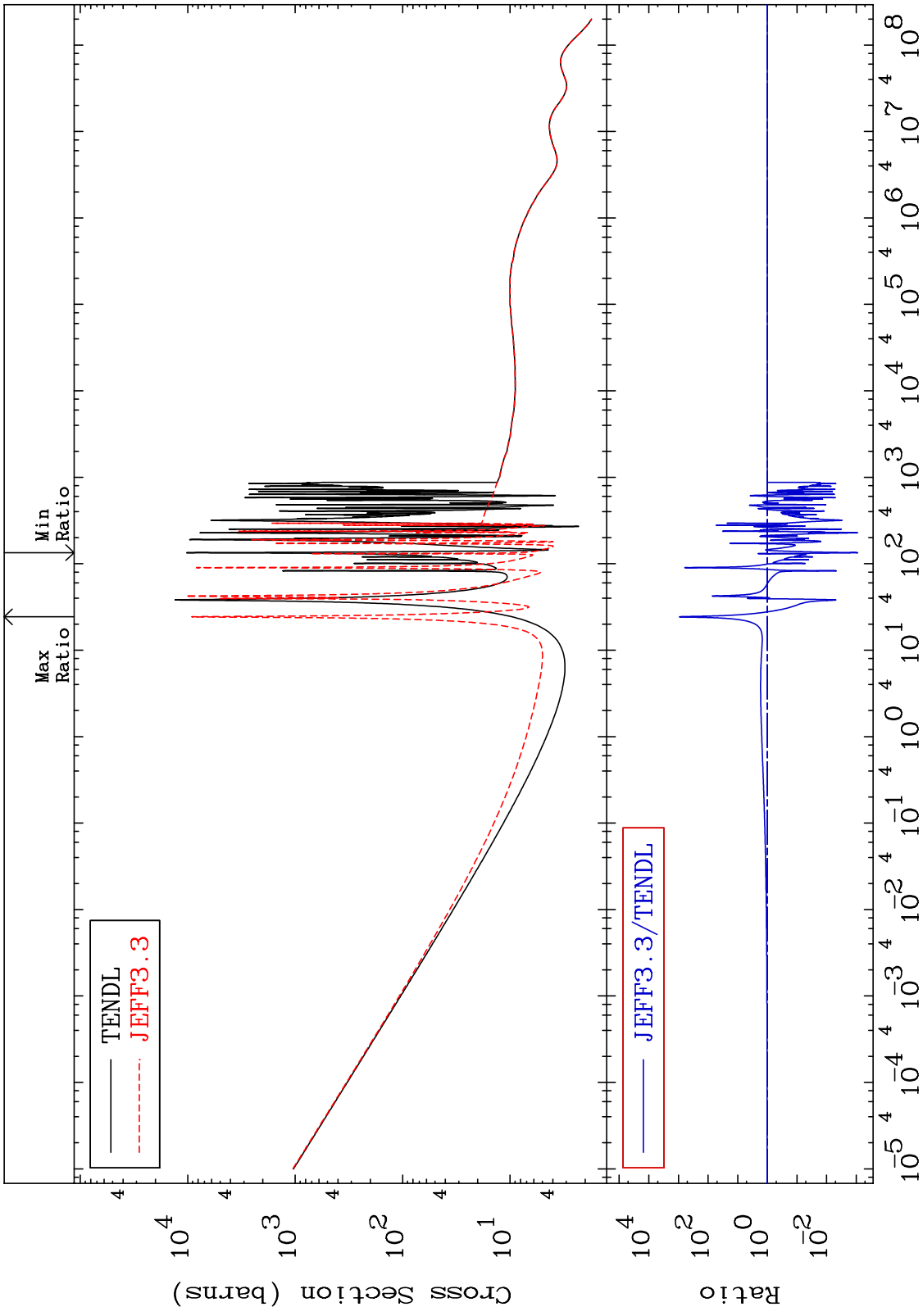
U.S.A.

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Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 4519 45-Rh-101 -99.91 To 9999. % Total Cross Section



1 Incident Energy (eV) 45-Rh-101

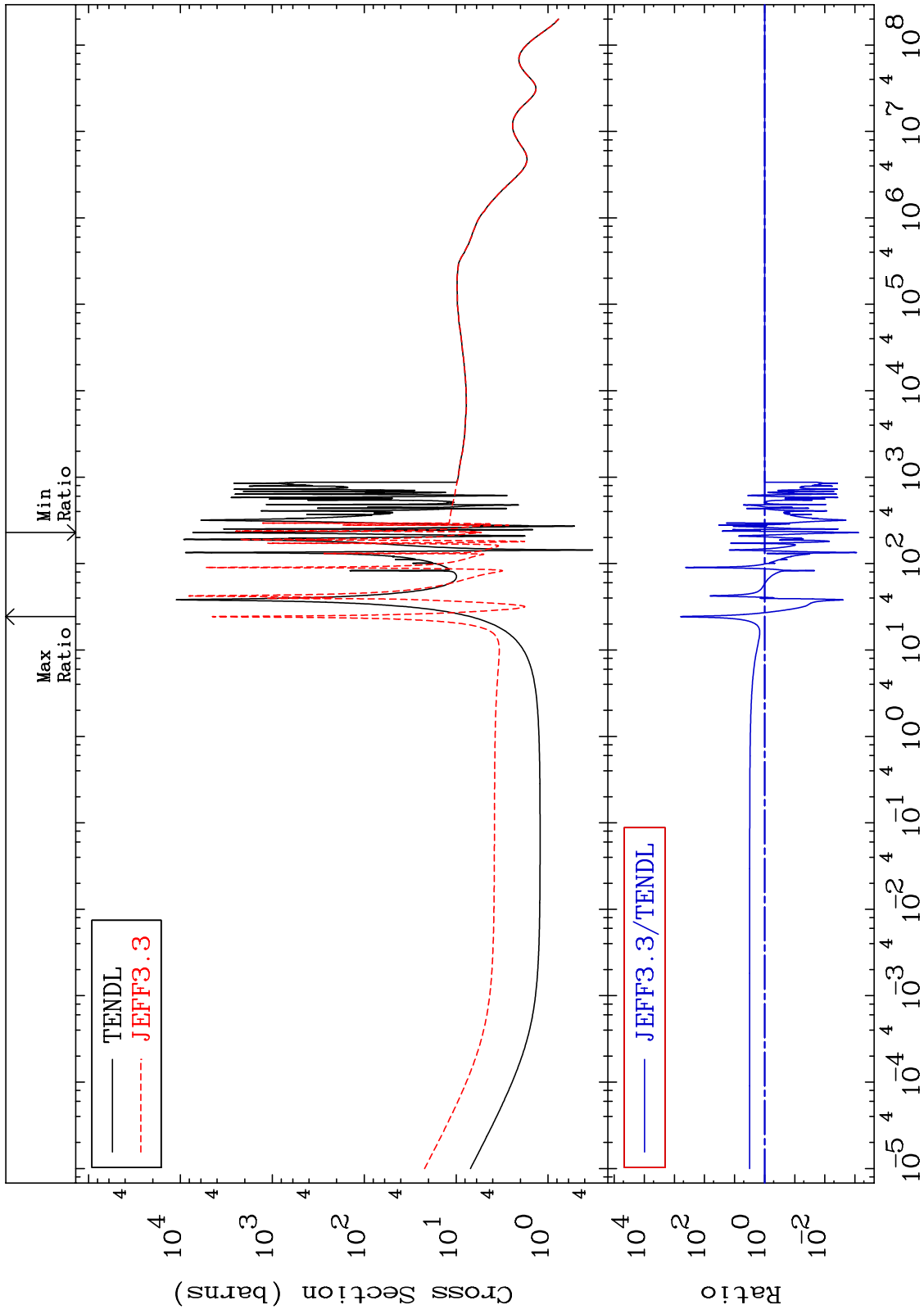
MAT 4519

Elastic

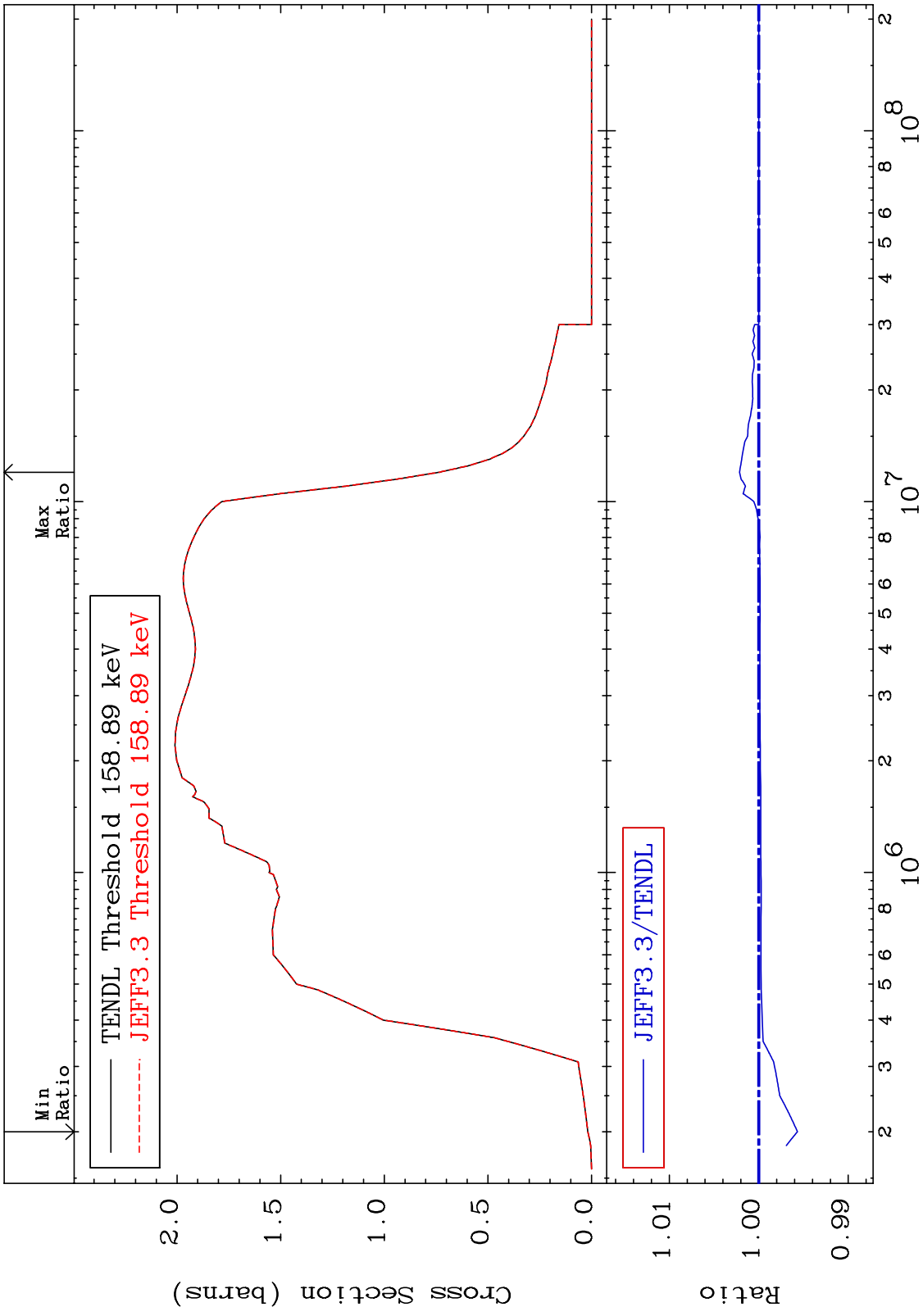
45-Rh-101

Cross Section

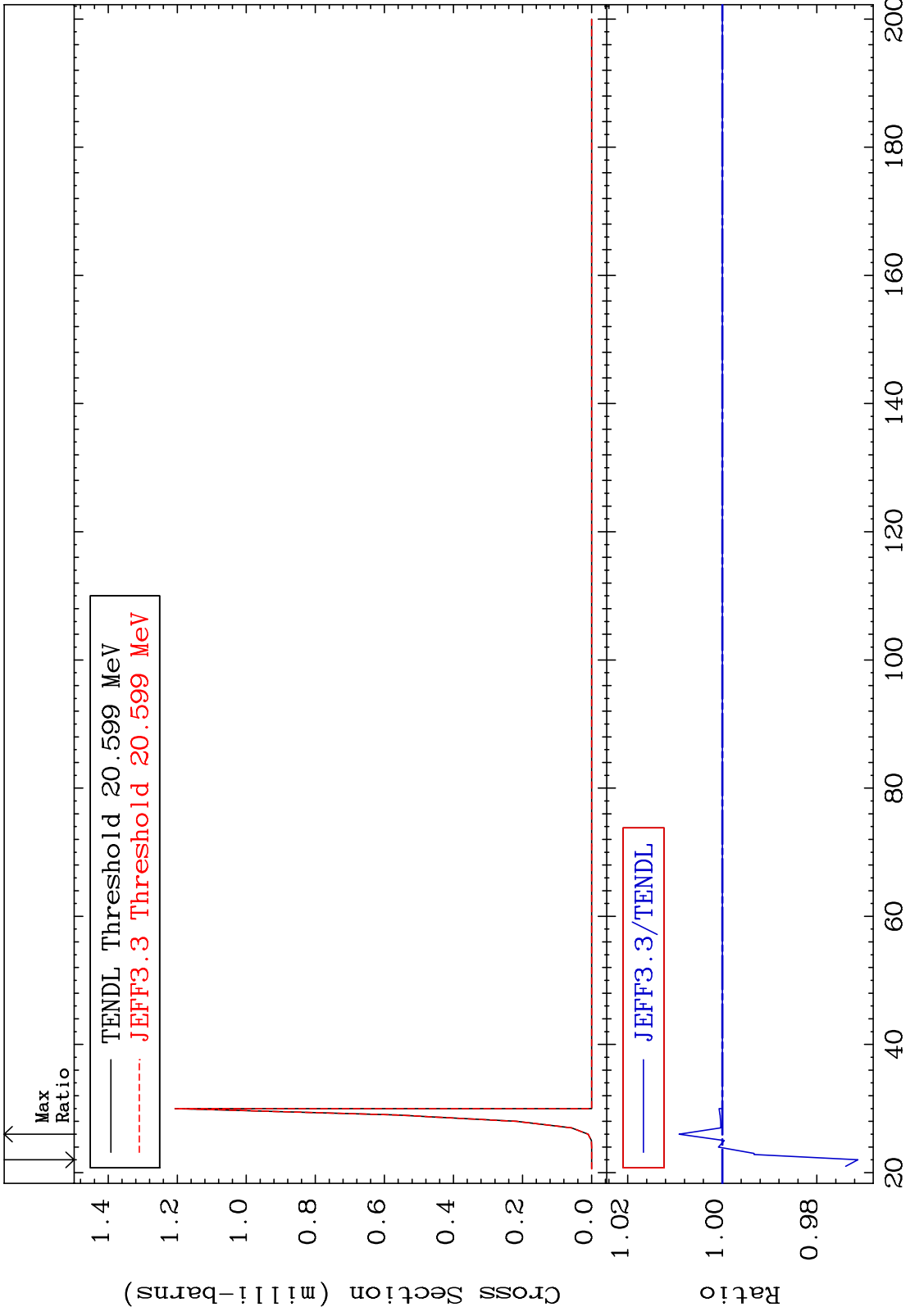
-99.93 To 9999. %



MAT 4519 Inelastic Cross Section 45-Rh-101 -0.432 To 0.216 %



MAT 4519 (n,2n) d 45-Rh-101
 Cross Section -2.869 To 0.913 %



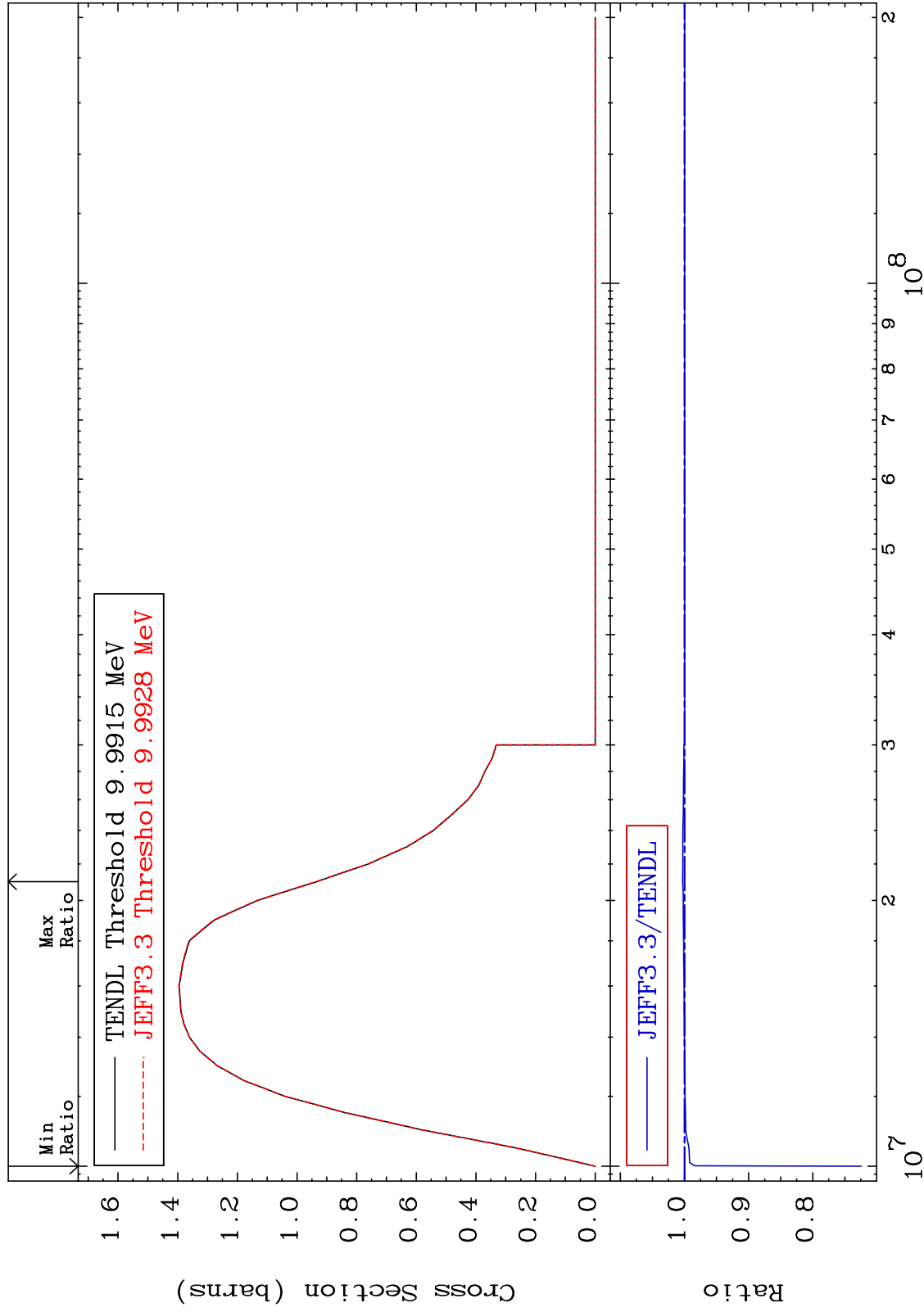
MAT 4519

(n,2n)

45-Rh-101

Cross Section

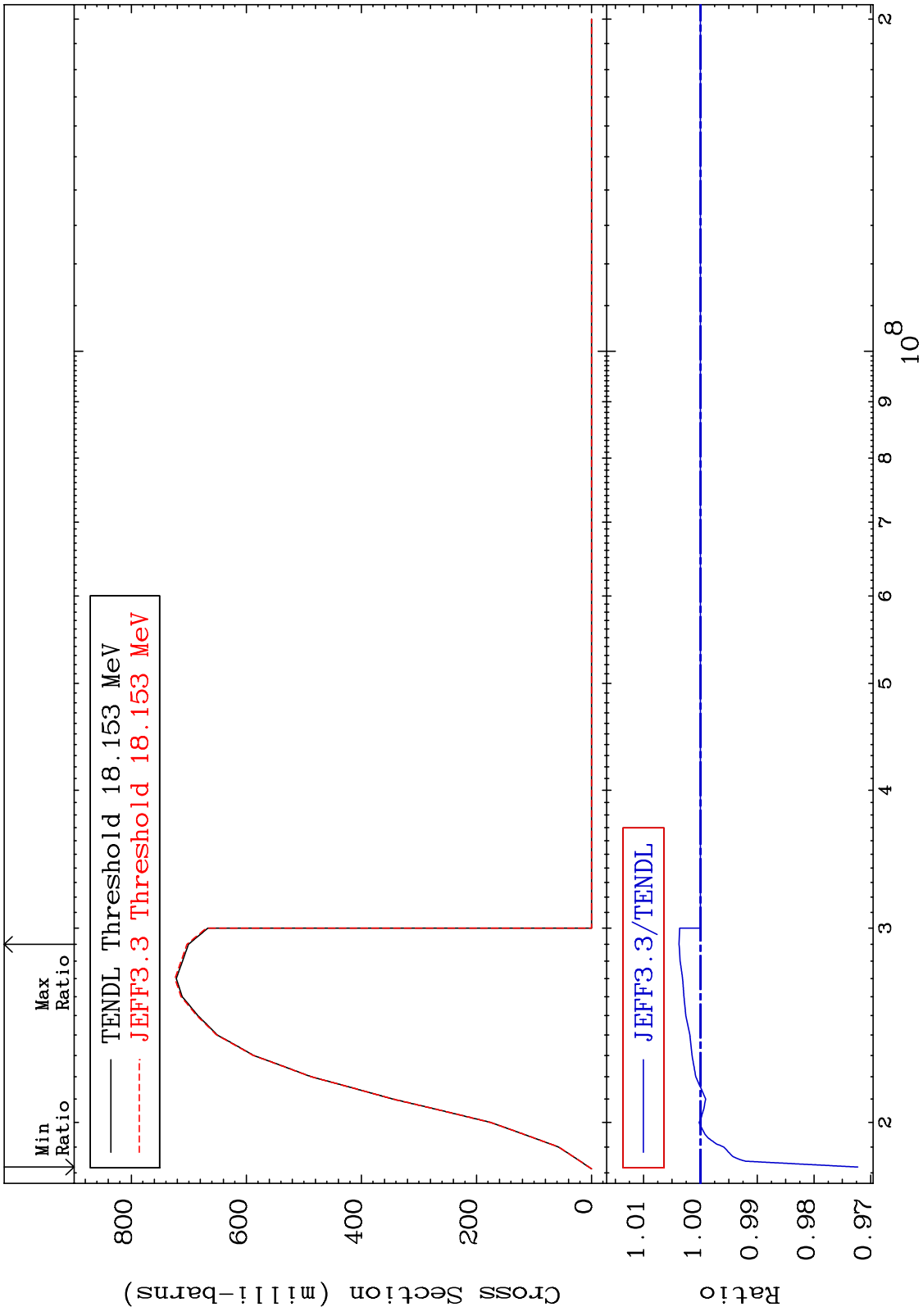
-27.58 To 0.282 %



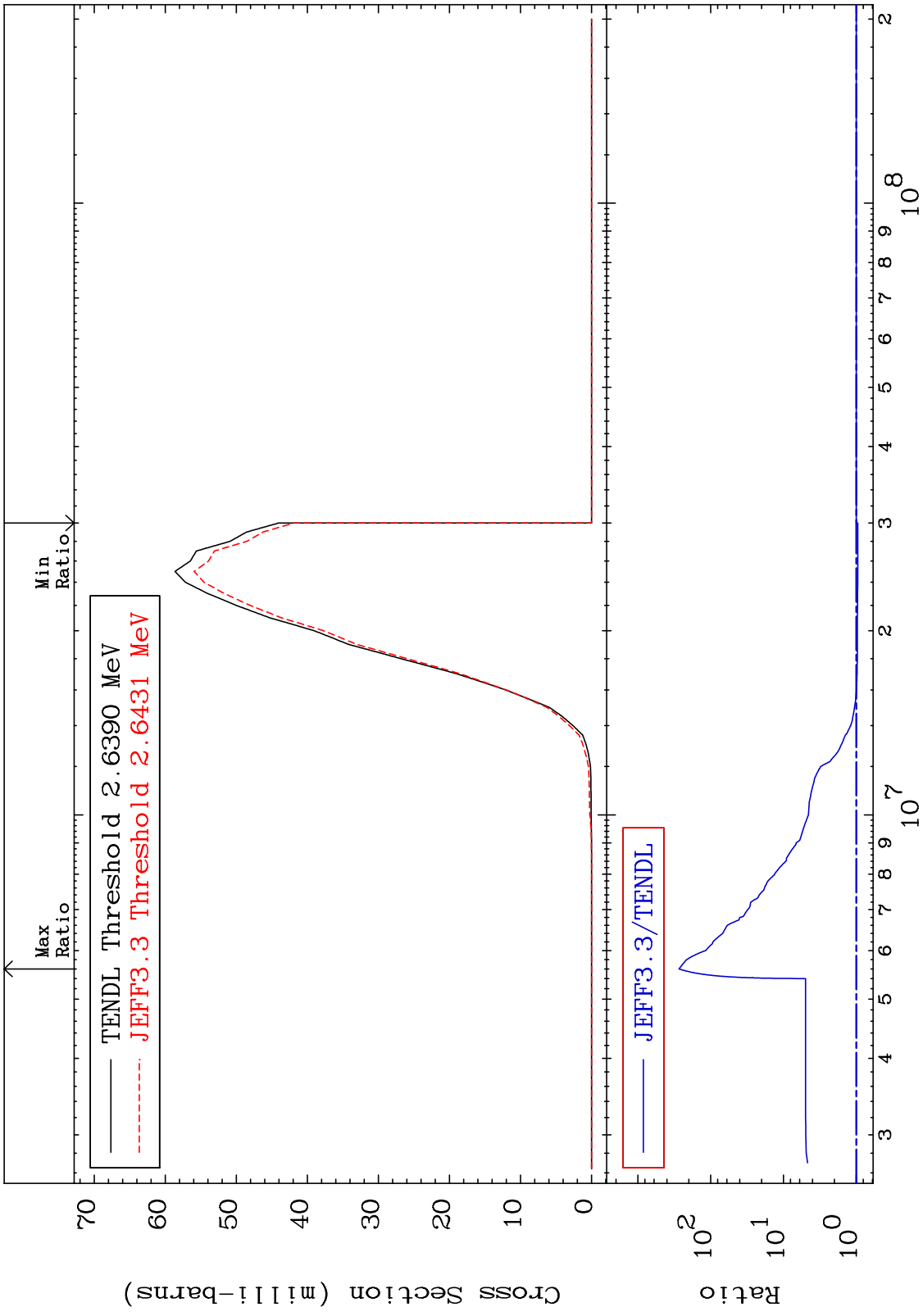
Incident Energy (eV)

45-Rh-101

MAT 4519 (n,3n) 45-Rh-101
 Cross Section -2.772 To 0.377 %

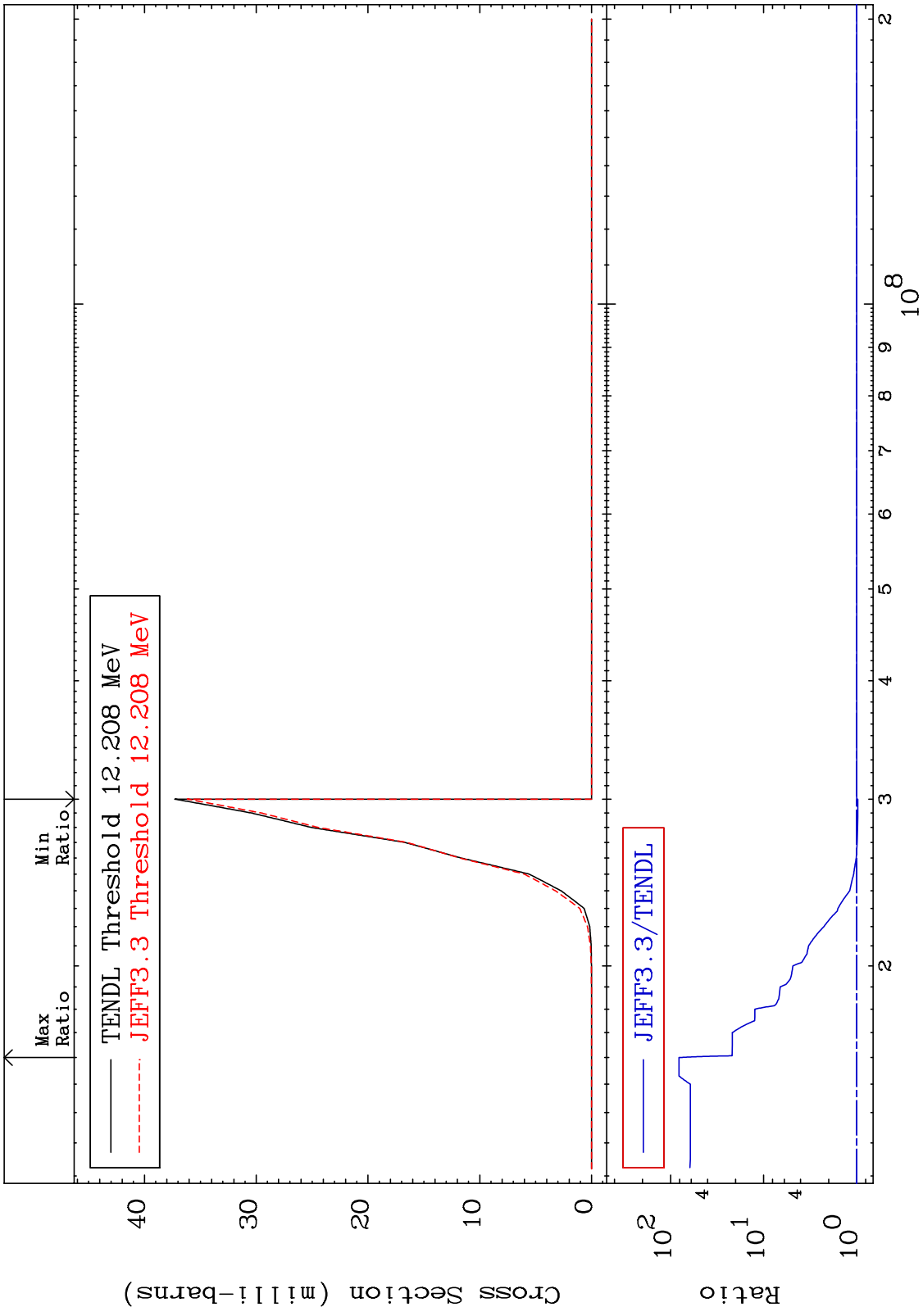


MAT 4519 $(n, n') \alpha$ Cross Section 45-Rh-101
 -4.898 To 9999. %

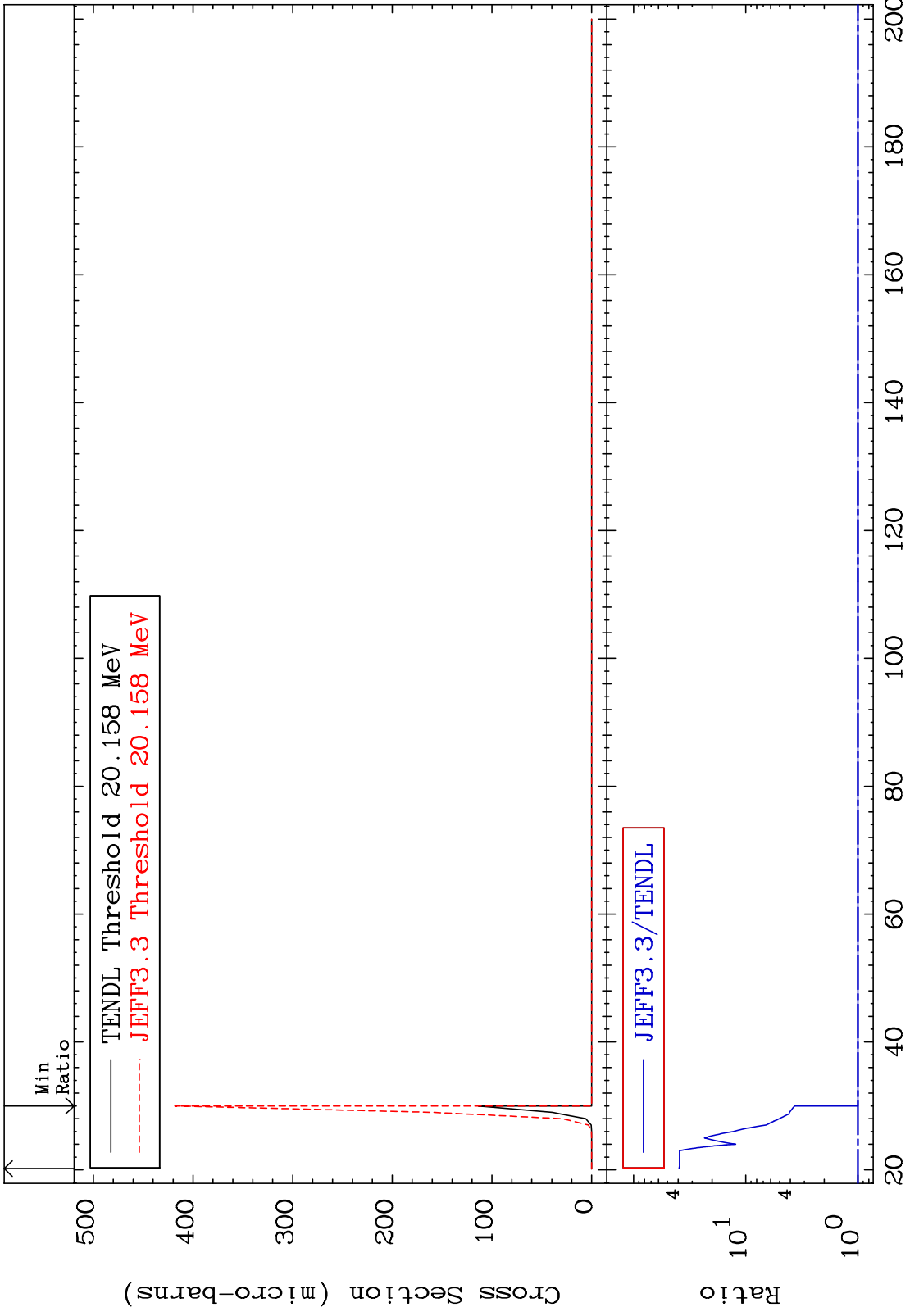


7 45-Rh-101

MAT 4519 $(n, 2n) \alpha$ 45-Rh-101
 Cross Section -2.960 To 8008. %



MAT 4519 (n,3n) α 45-Rh-101
 Cross Section 0.000 To 3829. %



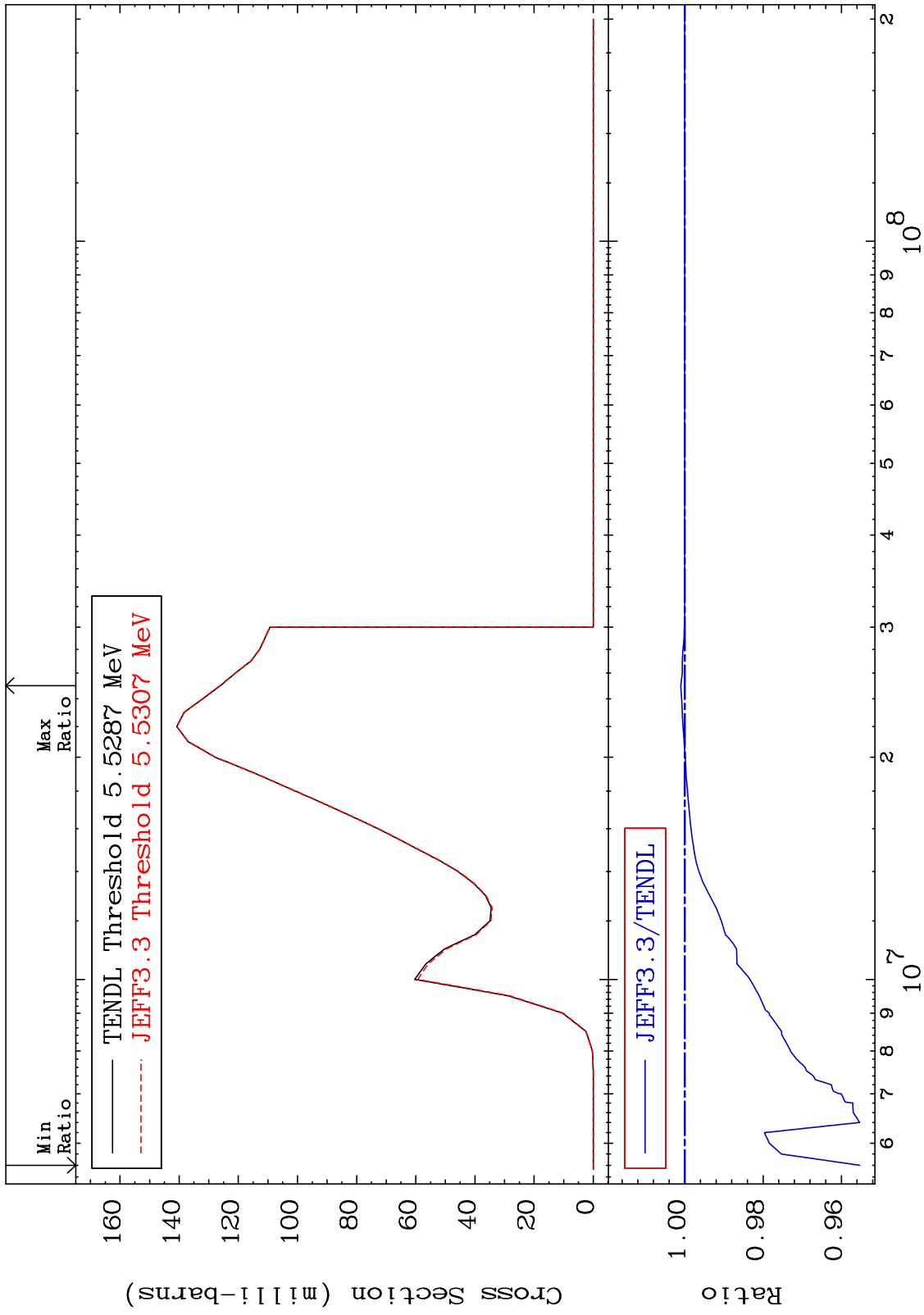
MAT 4519

(n, n') p

45-Rh-101

-4.466 To 0.102 %

Cross Section

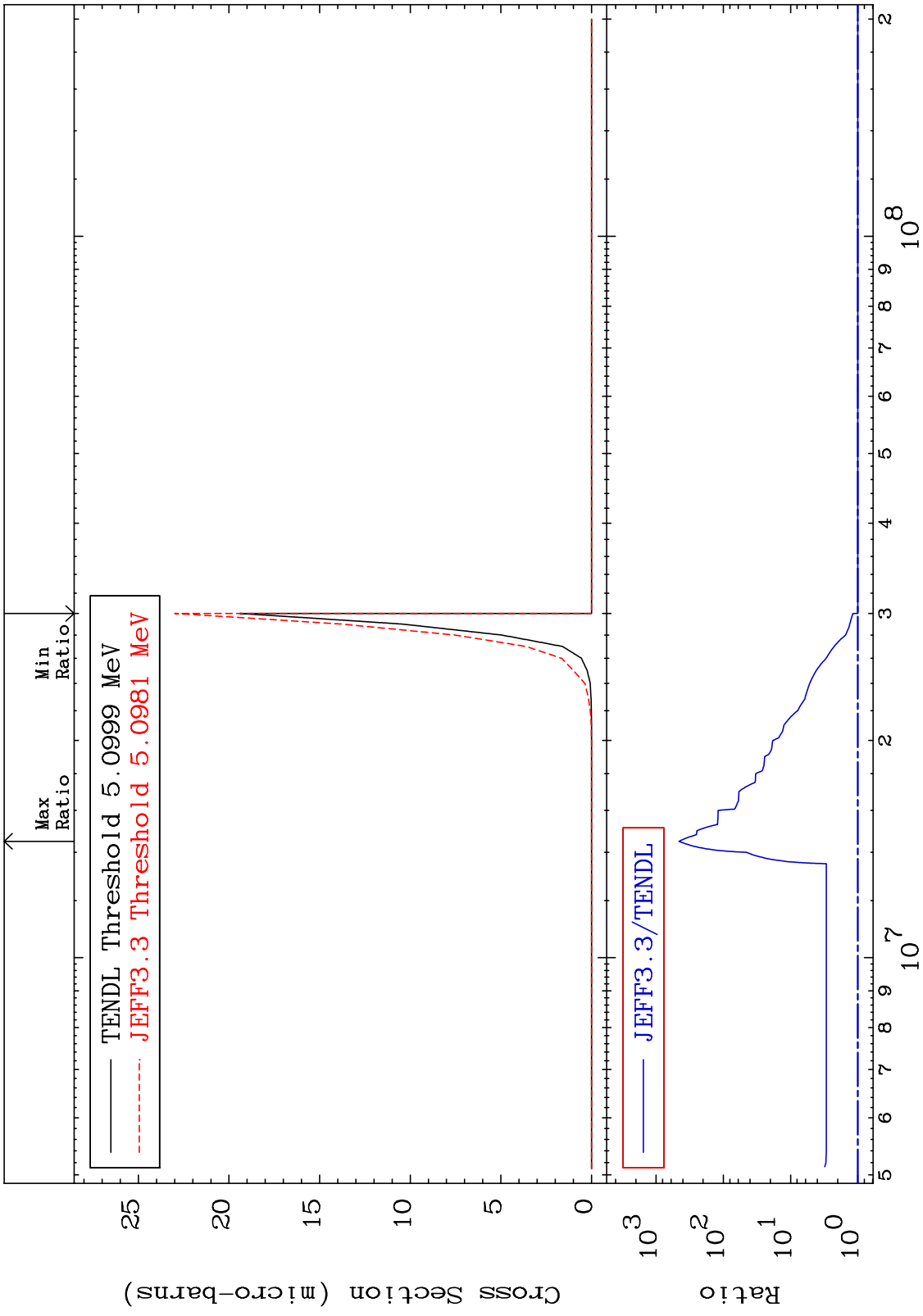


10

Incident Energy (eV)

45-Rh-101

MAT 4519 (n,n') 2α Cross Section 45-Rh-101 To 9999. %



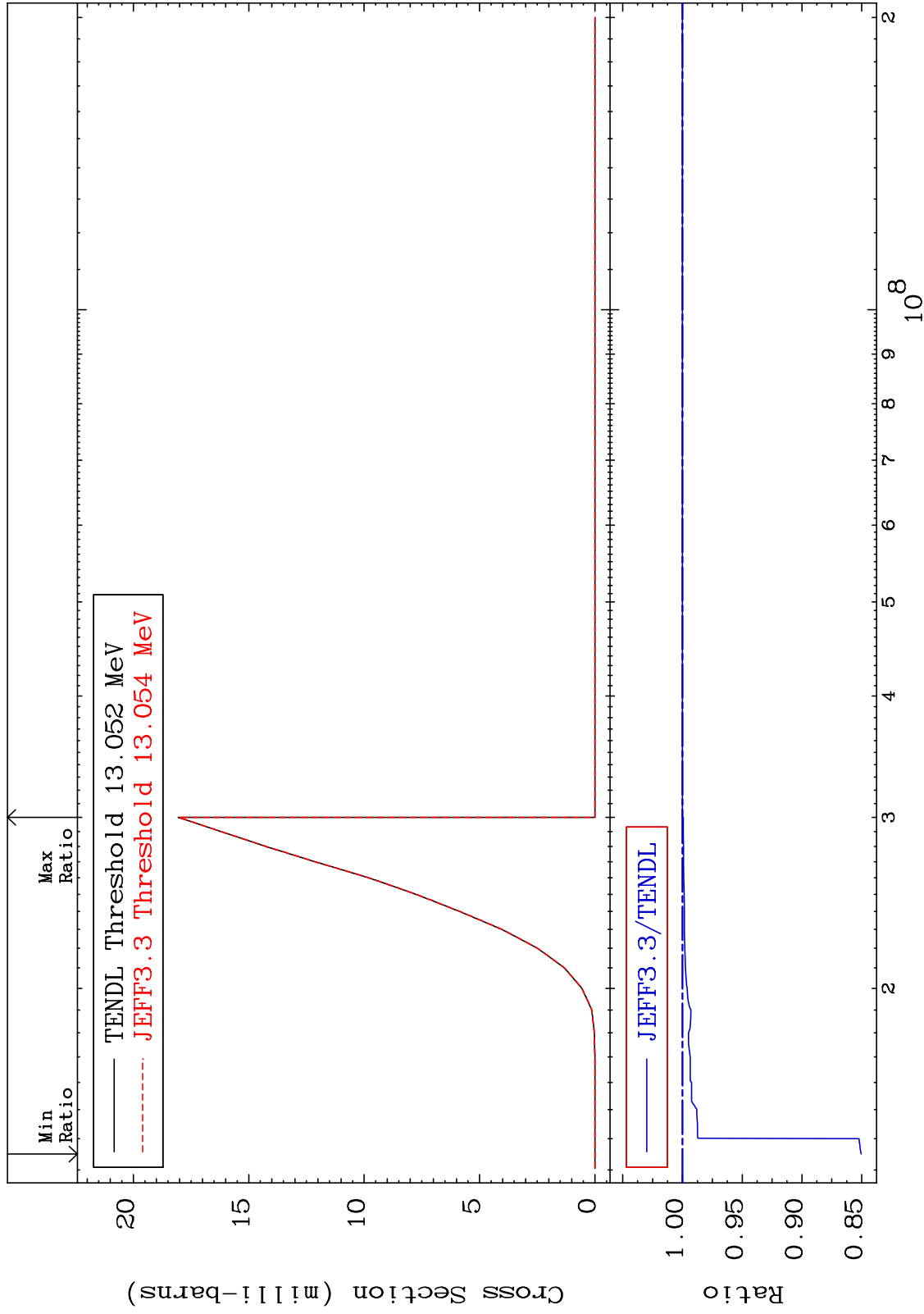
MAT 4519

(n, n') d

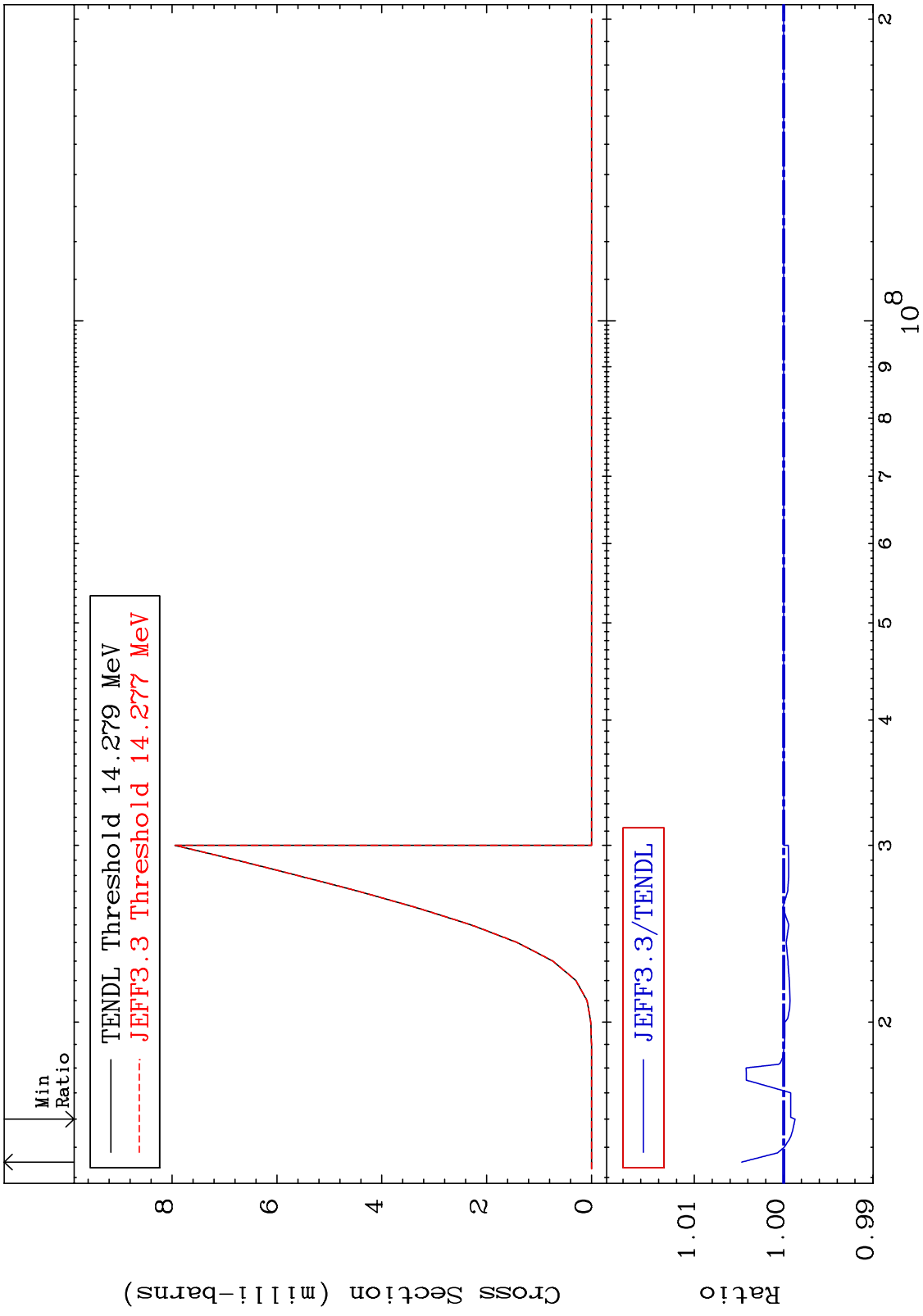
45-Rh-101

Cross Section

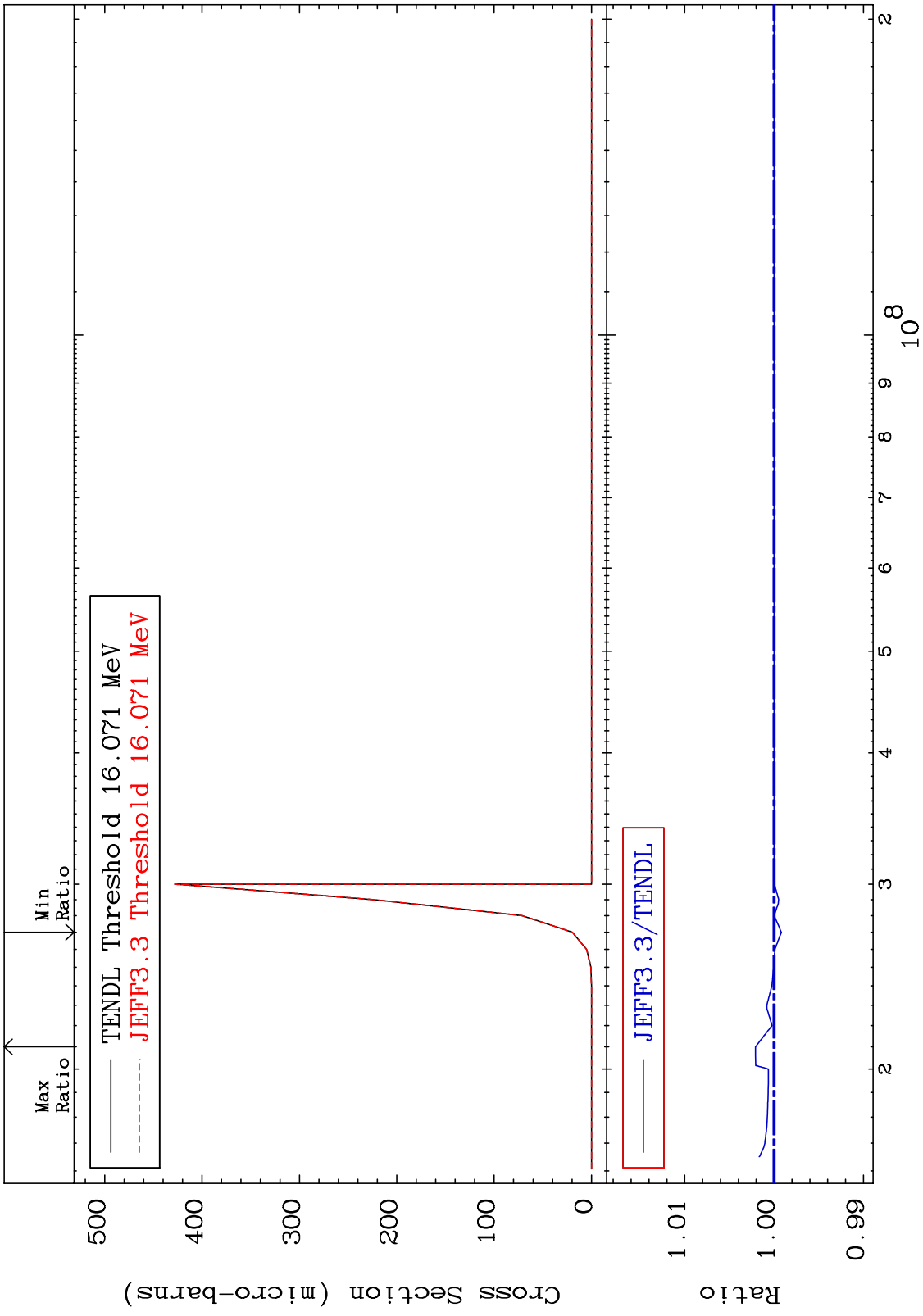
-14.97 To 0.000 %



MAT 4519 (n, n') t 45-Rh-101
 Cross Section -0.129 To 0.469 %



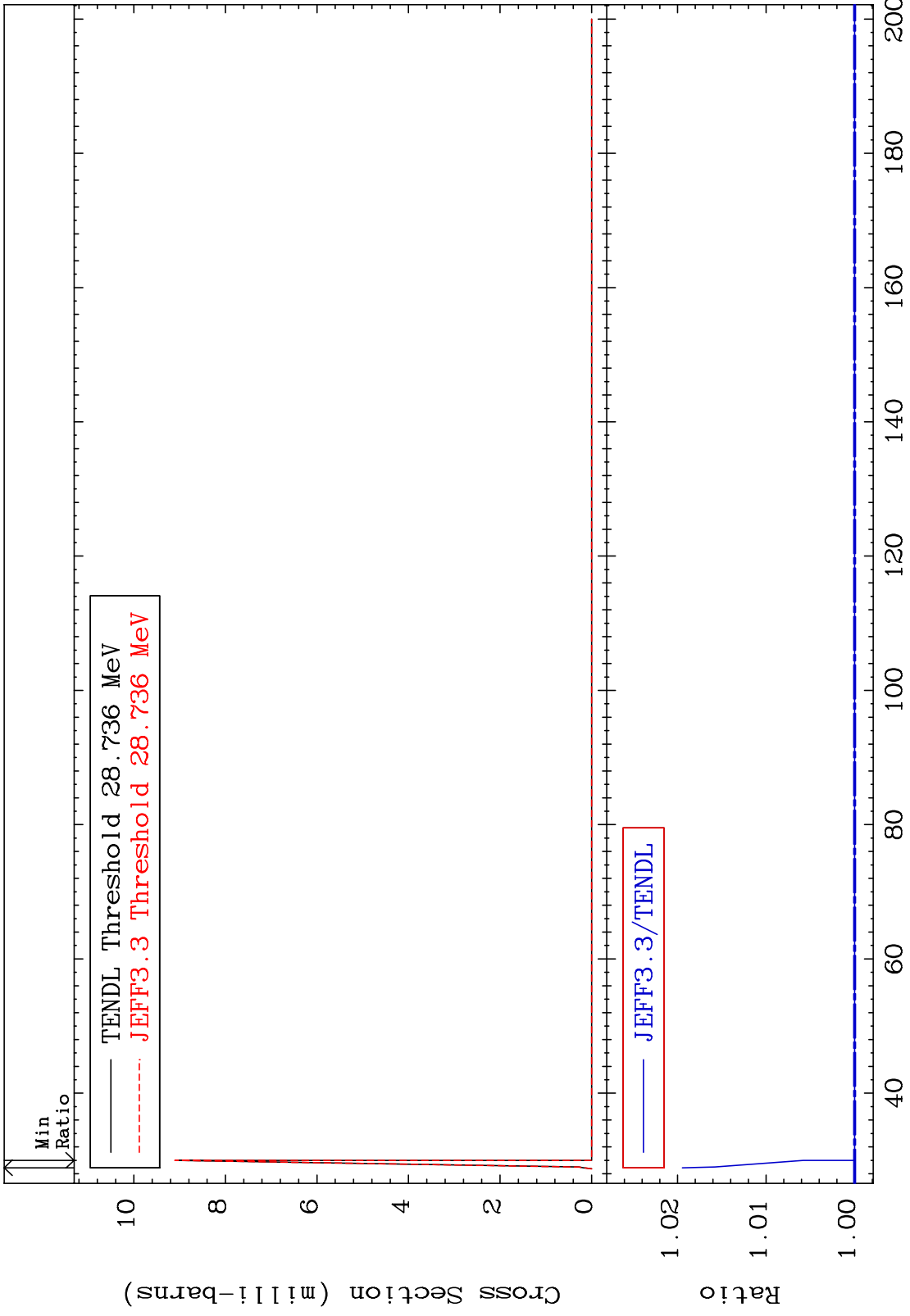
MAT 4519 (n, n') He-3 45-Rh-101
 Cross Section -0.081 To 0.208 %



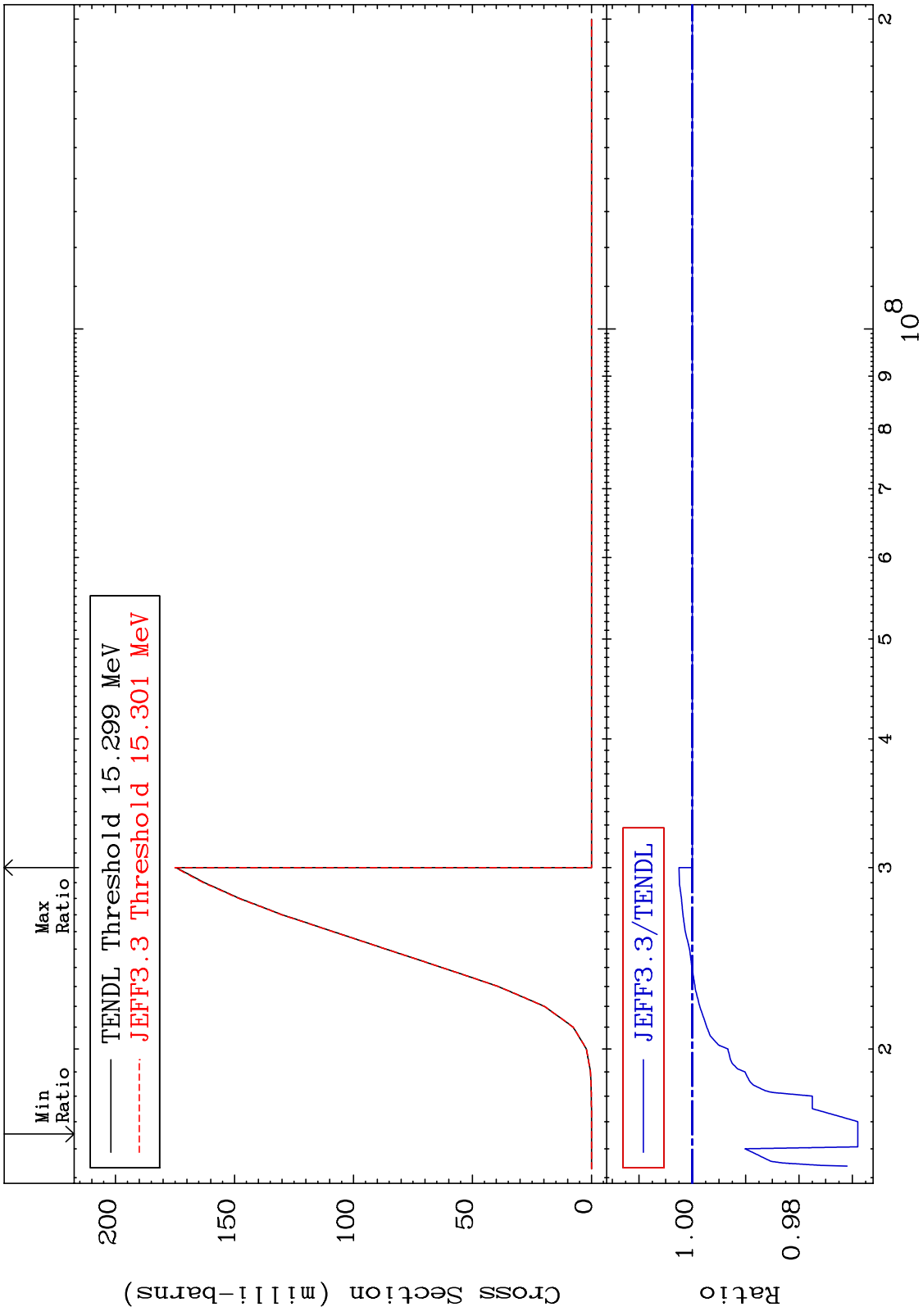
45-Rh-101

Incident Energy (eV)

MAT 4519 (n,4n) Cross Section 45-Rh-101 To 1.945 %



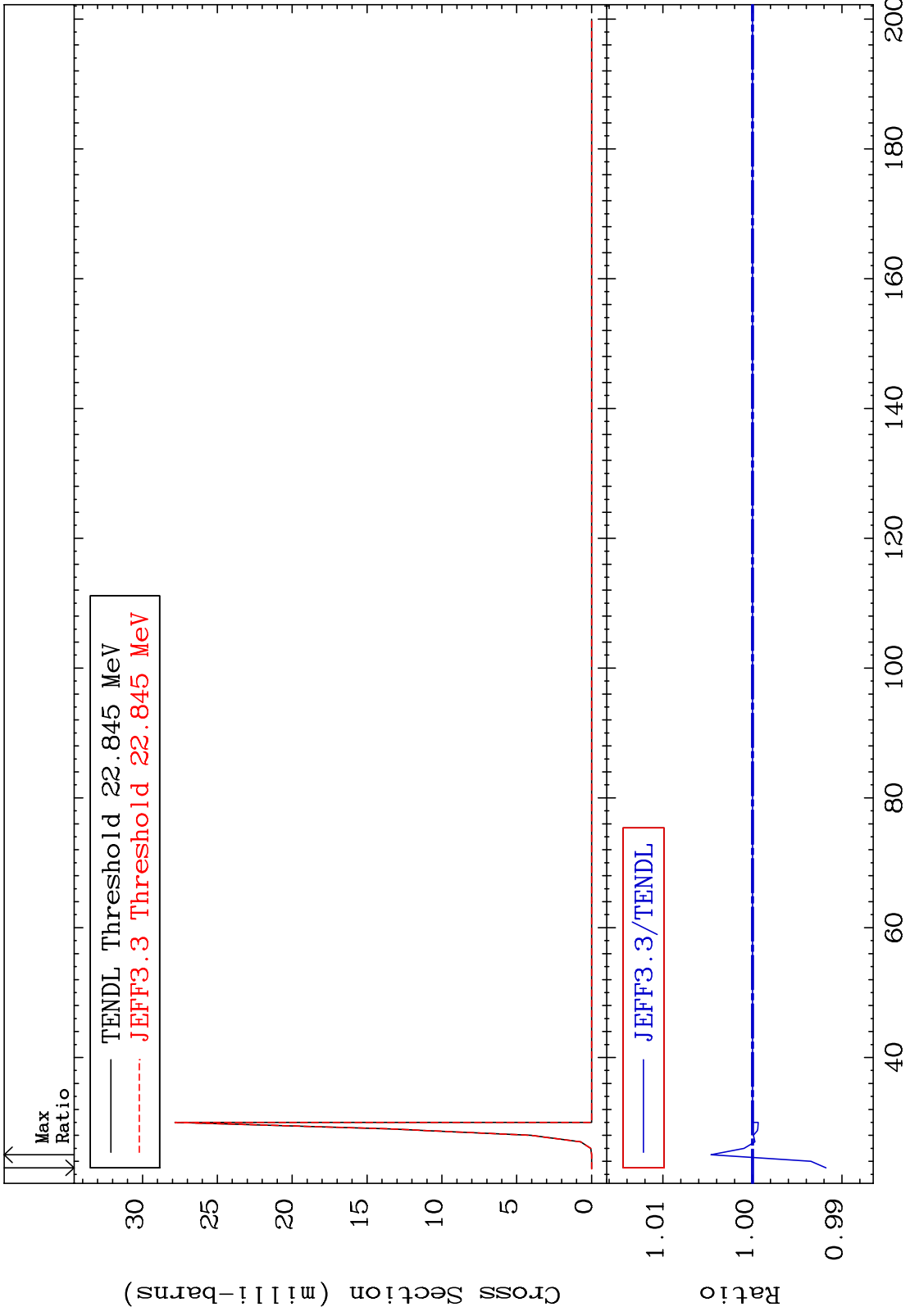
MAT 4519 (n,2n) p 45-Rh-101
Cross Section -3.105 To 0.248 %



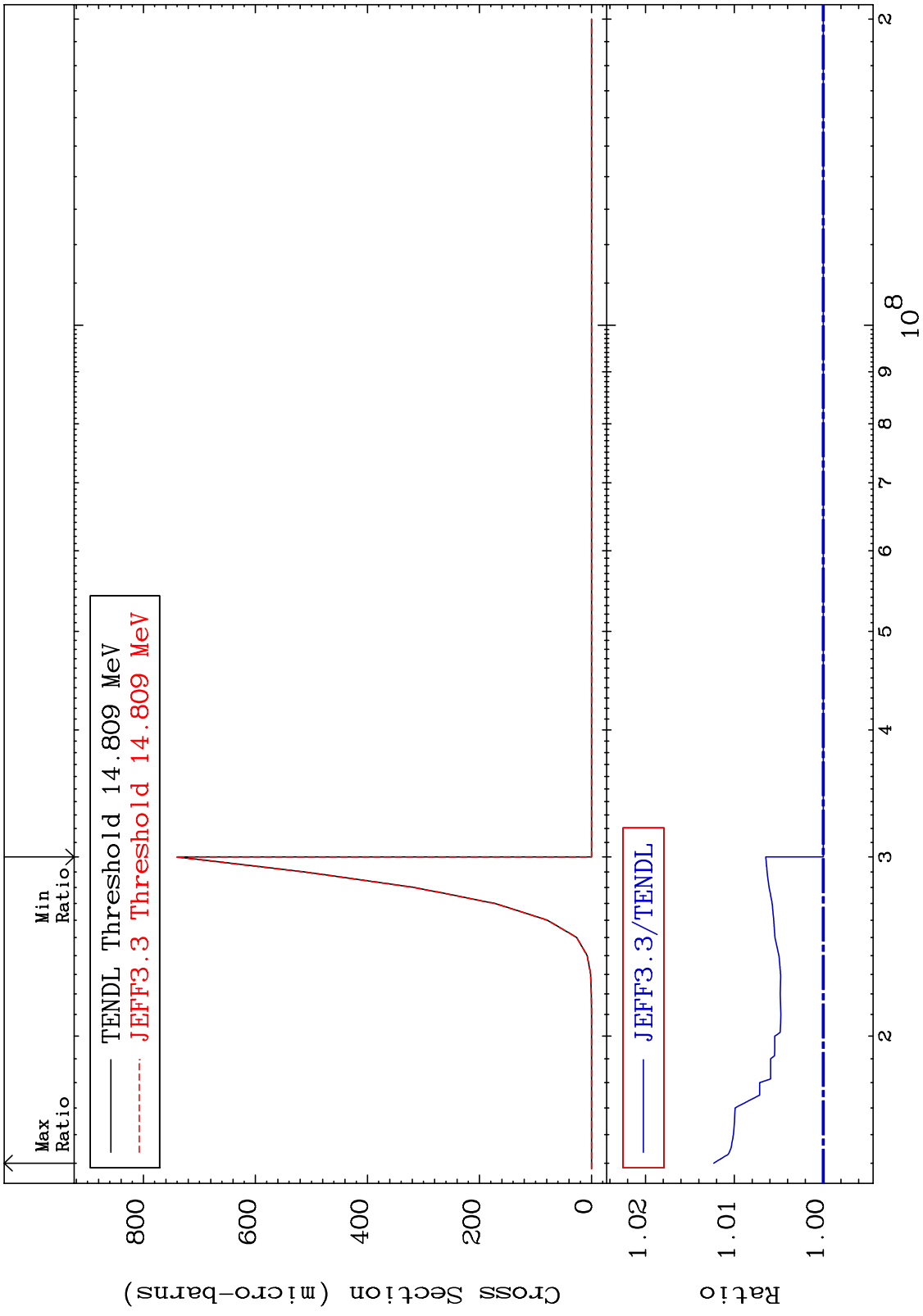
45-Rh-101

Incident Energy (eV)

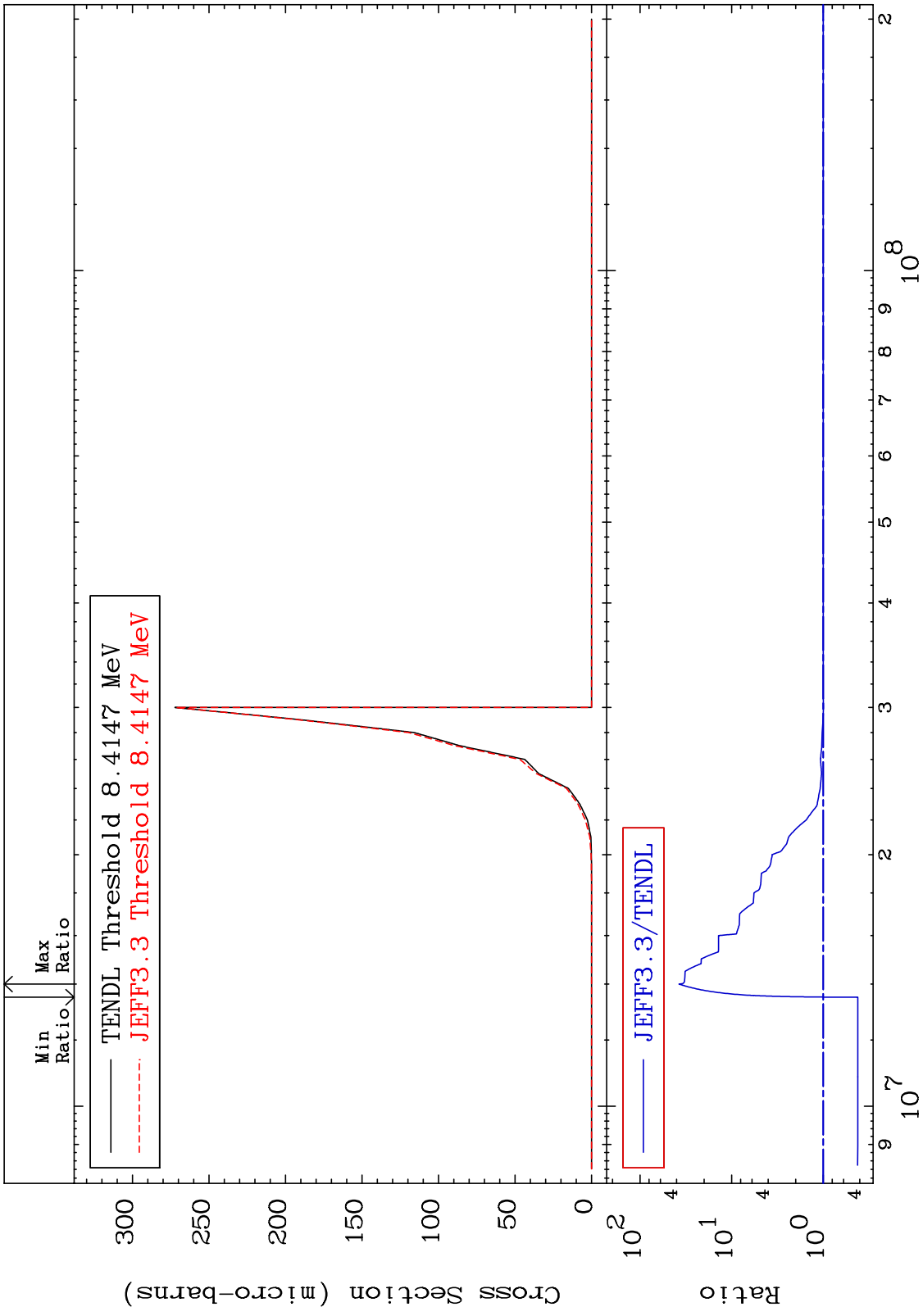
MAT 4519 (n,3n) p 45-Rh-101
Cross Section -0.821 To 0.462 %



MAT 4519 (n,2n) p 45-Rh-101
 Cross Section 0.000 To 1.232 %

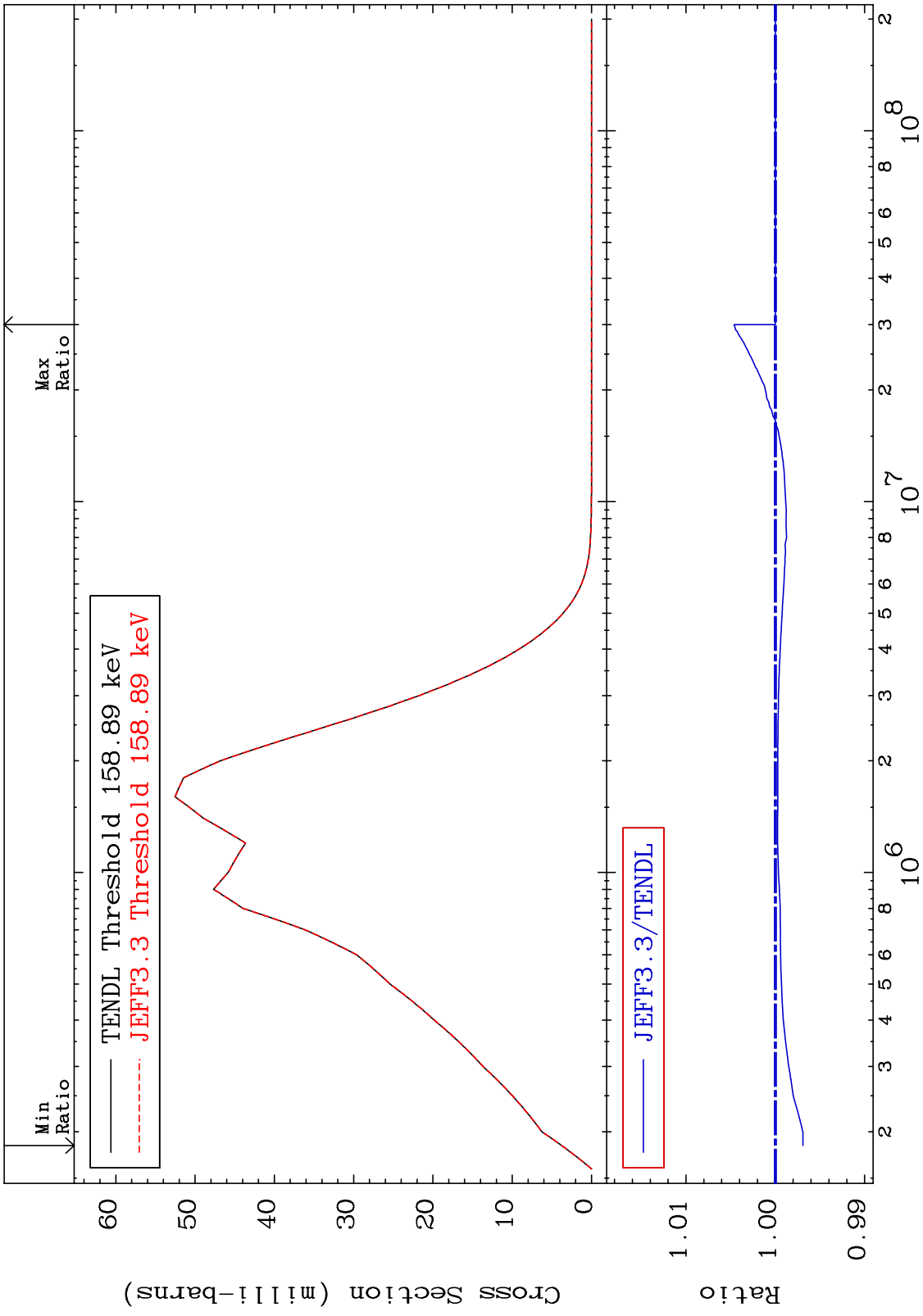


MAT 4519 (n,n') p α 45-Rh-101
 Cross Section -58.03 To 3652. %

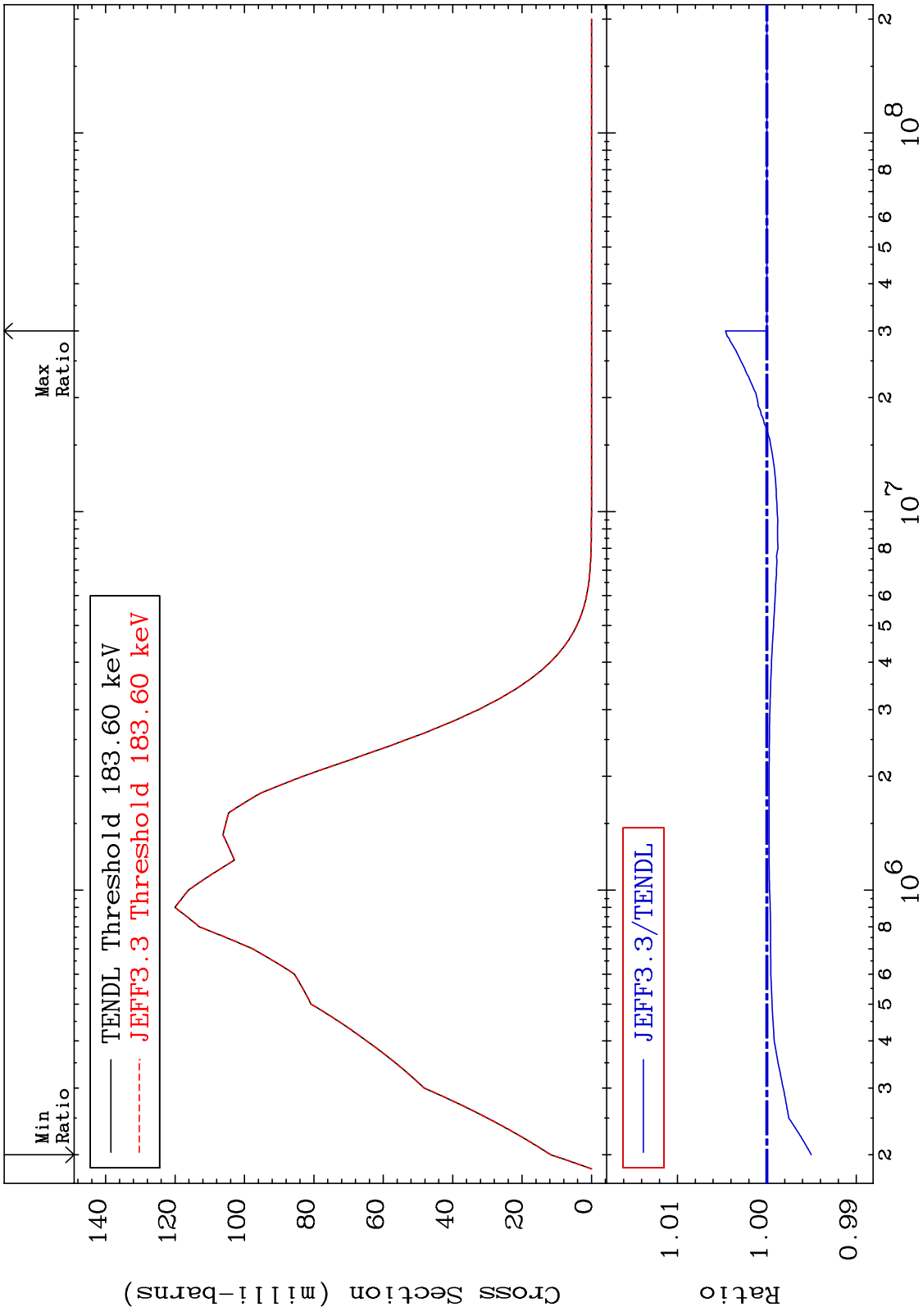


19 45-Rh-101

MAT 4519 MT= 51 (n,n') Level Cross Section 45-Rh-101
 -0.308 To 0.462 %



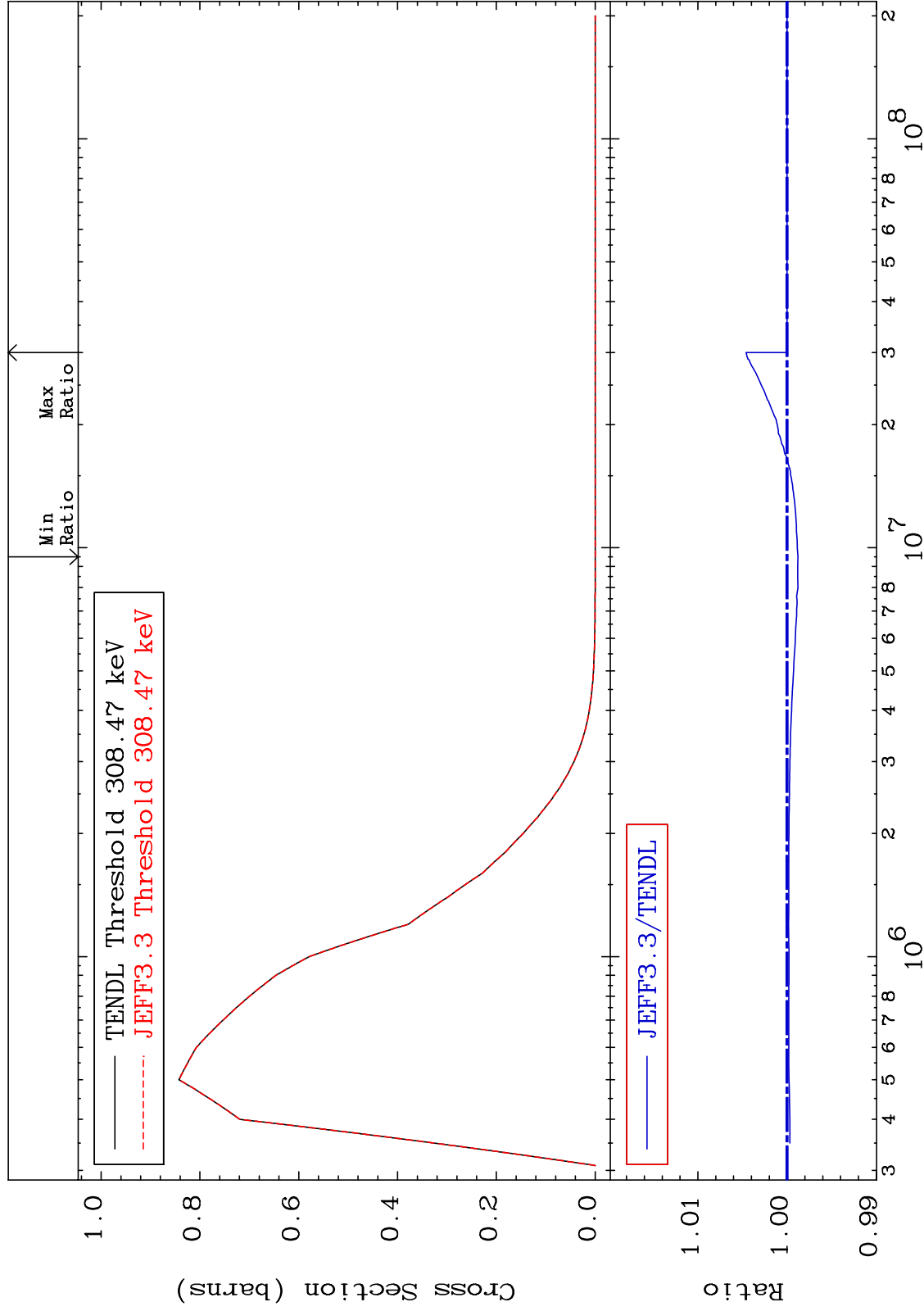
MAT 4519 MT= 52 (n,n') Level Cross Section 45-Rh-101 -0.498 To 0.461 %



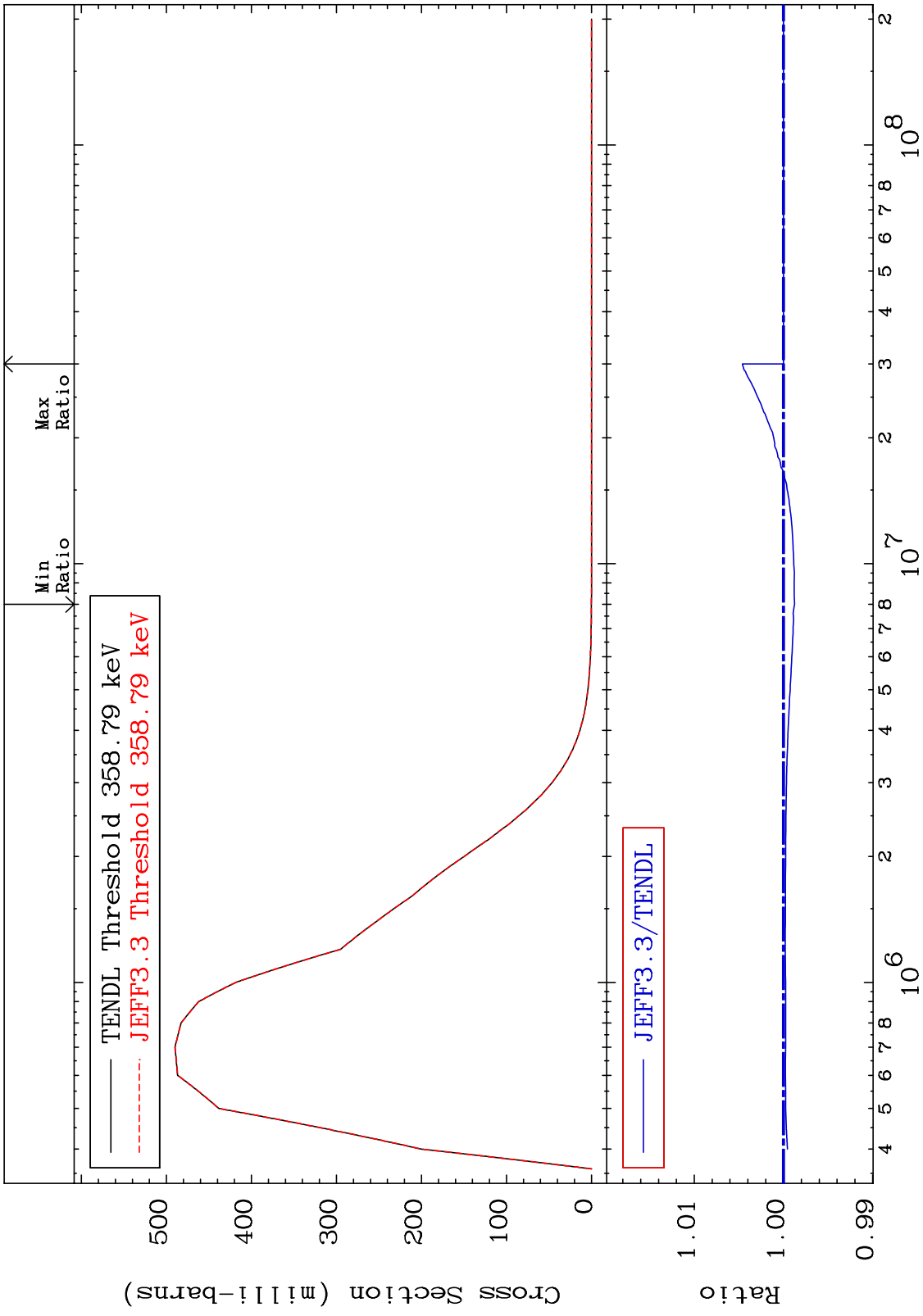
MAT 4519

MT= 53 (n,n') Level
Cross Section

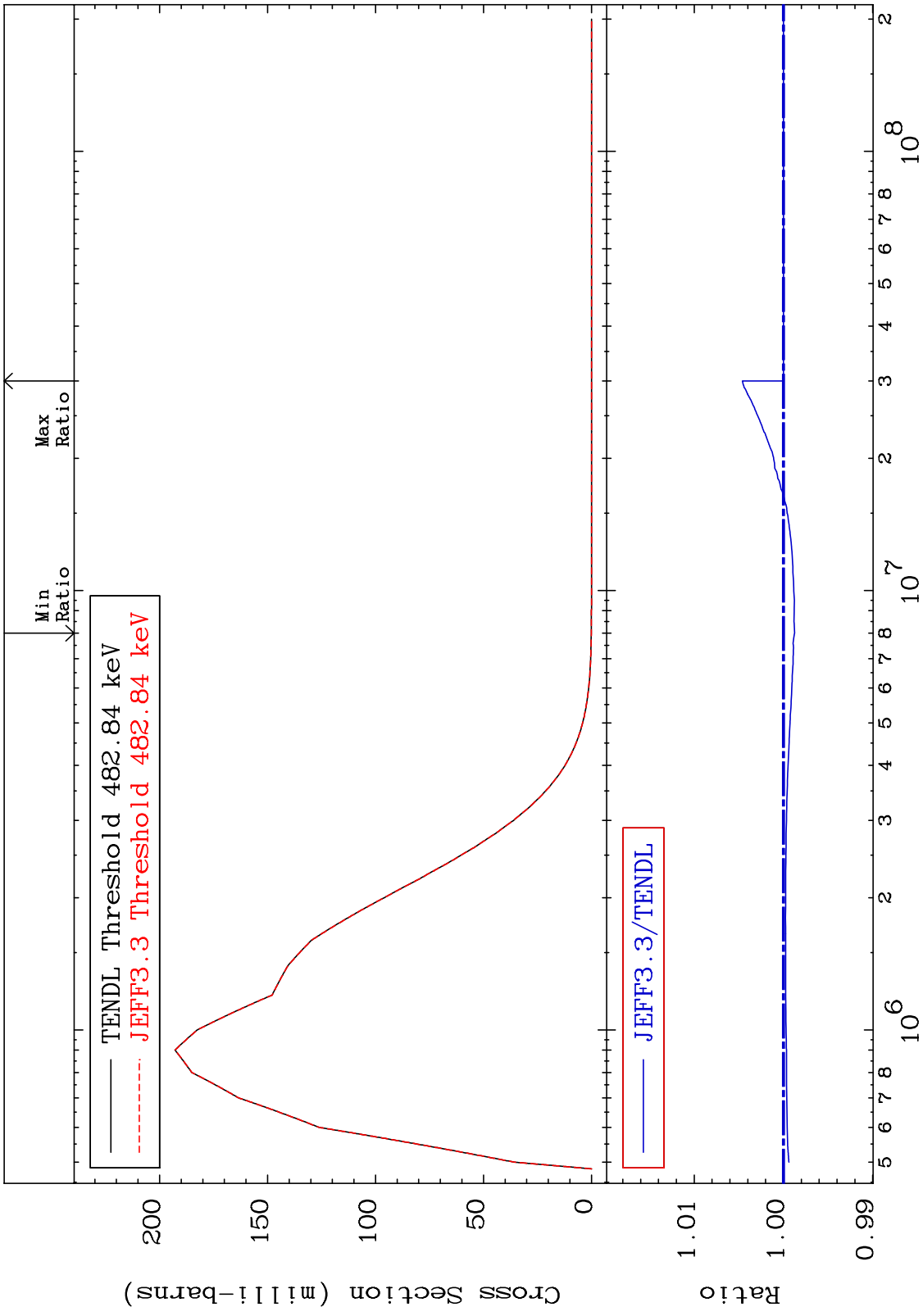
45-Rh-101
-0.122 To 0.460 %



MAT 4519 MT= 54 (n,n') Level Cross Section 45-Rh-101
 -0.123 To 0.461 %



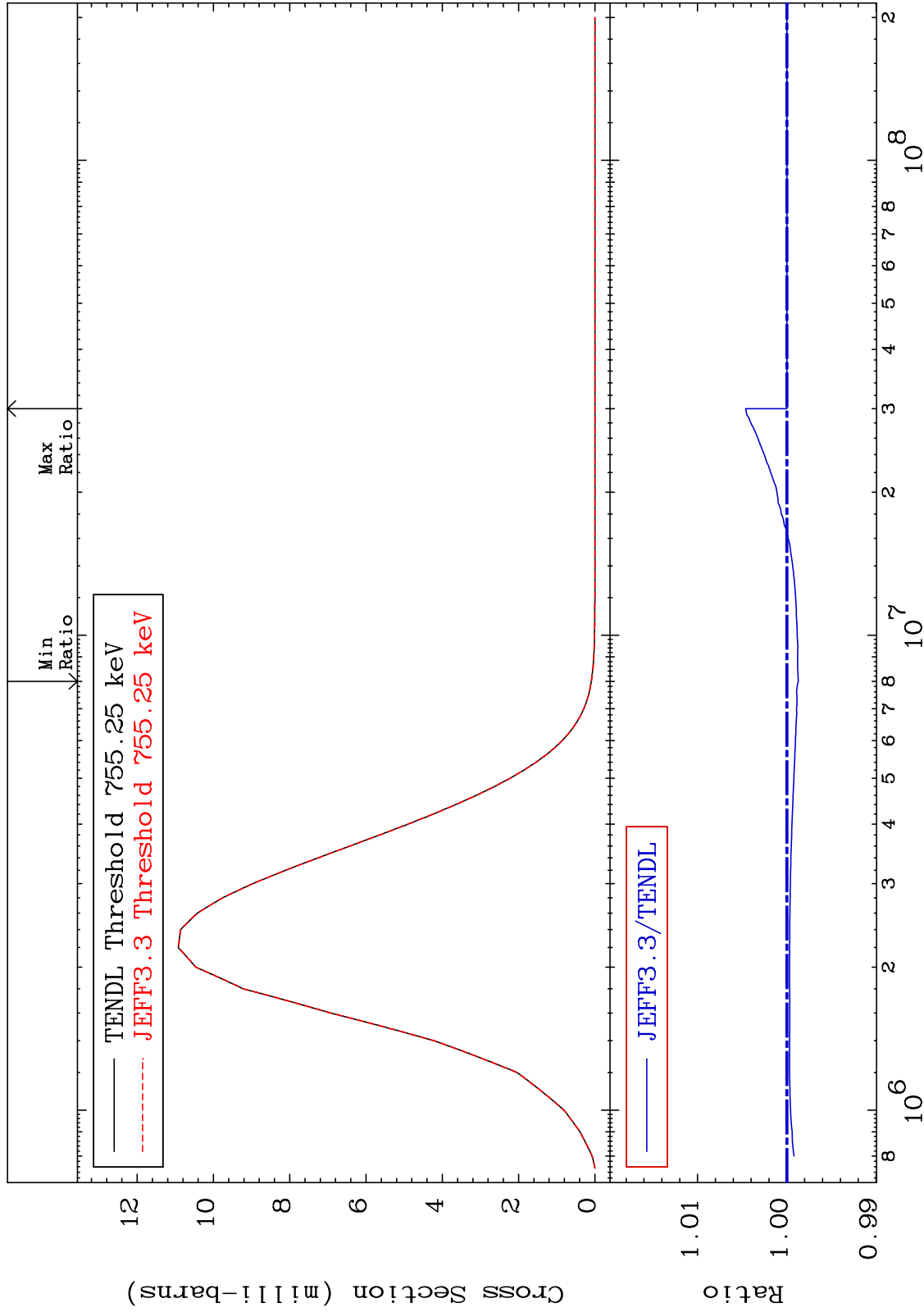
MAT 4519 MT= 55 (n,n') Level Cross Section 45-Rh-101 -0.124 To 0.461 %



MAT 4519

MT= 56 (n,n') Level
Cross Section

45-Rh-101
-0.127 To 0.462 %

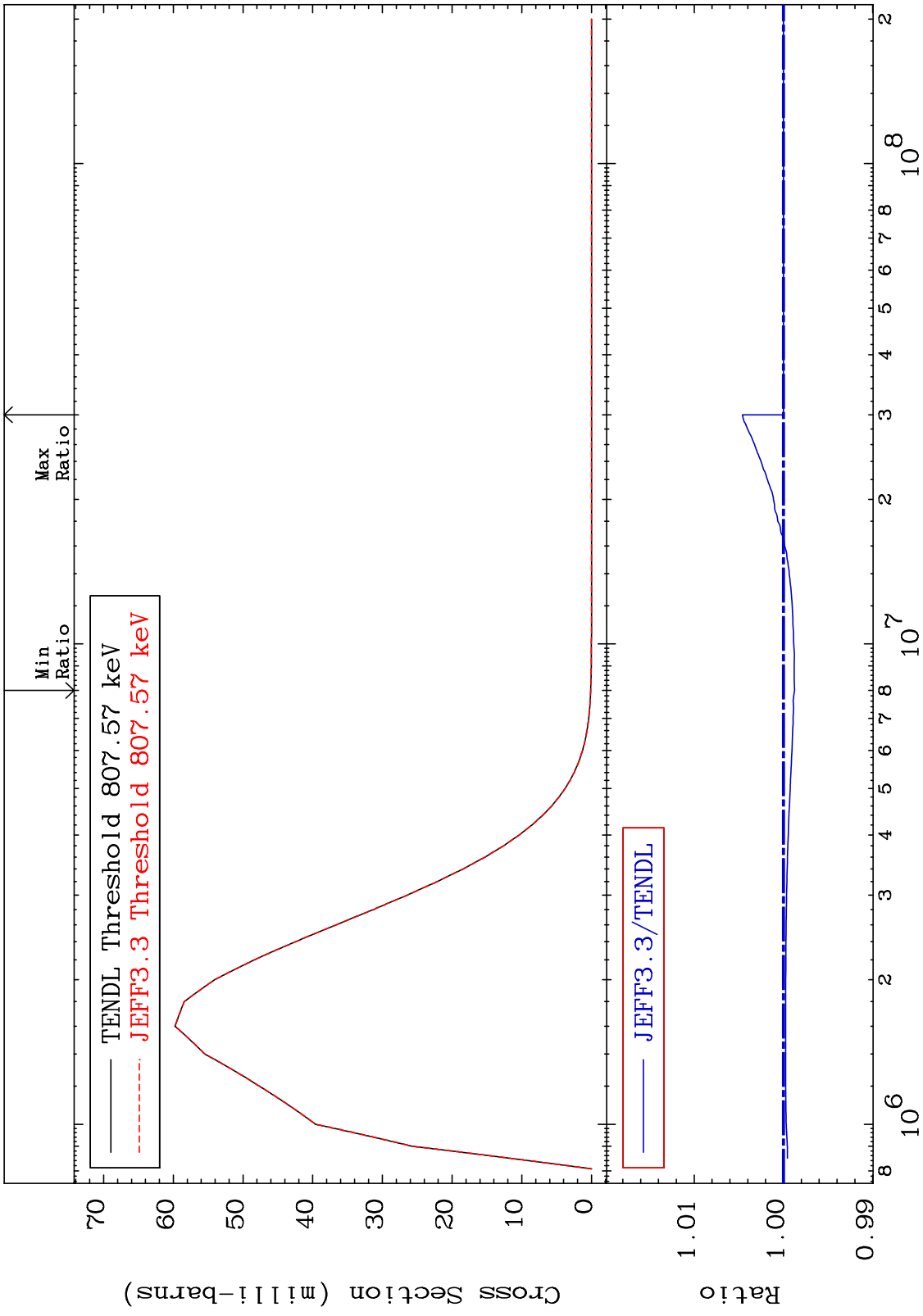


25

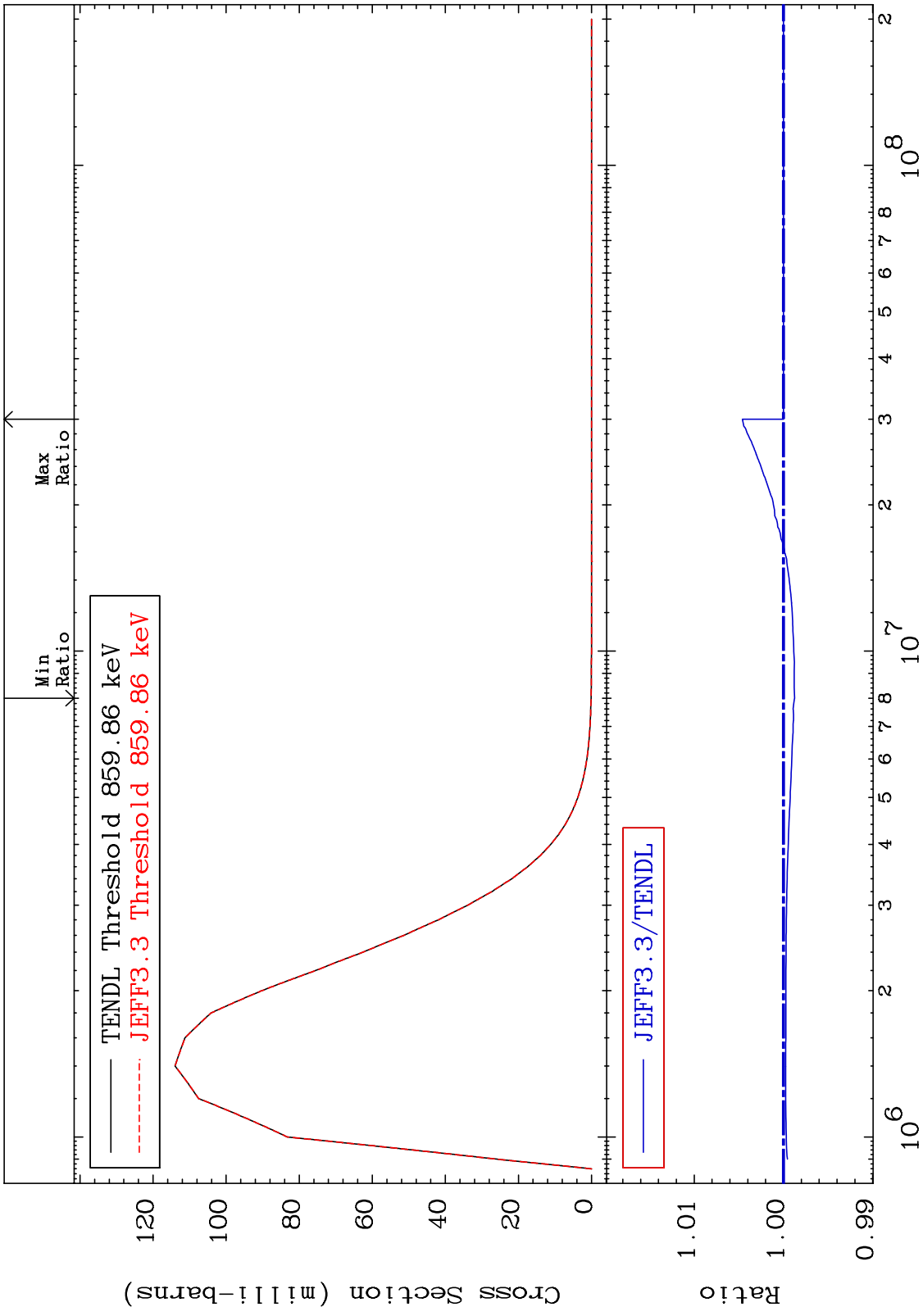
Incident Energy (eV)

45-Rh-101

MAT 4519 MT= 57 (n,n') Level 45-Rh-101
 Cross Section -0.124 To 0.461 %



MAT 4519 MT= 58 (n,n') Level Cross Section 45-Rh-101
 -0.125 To 0.461 %

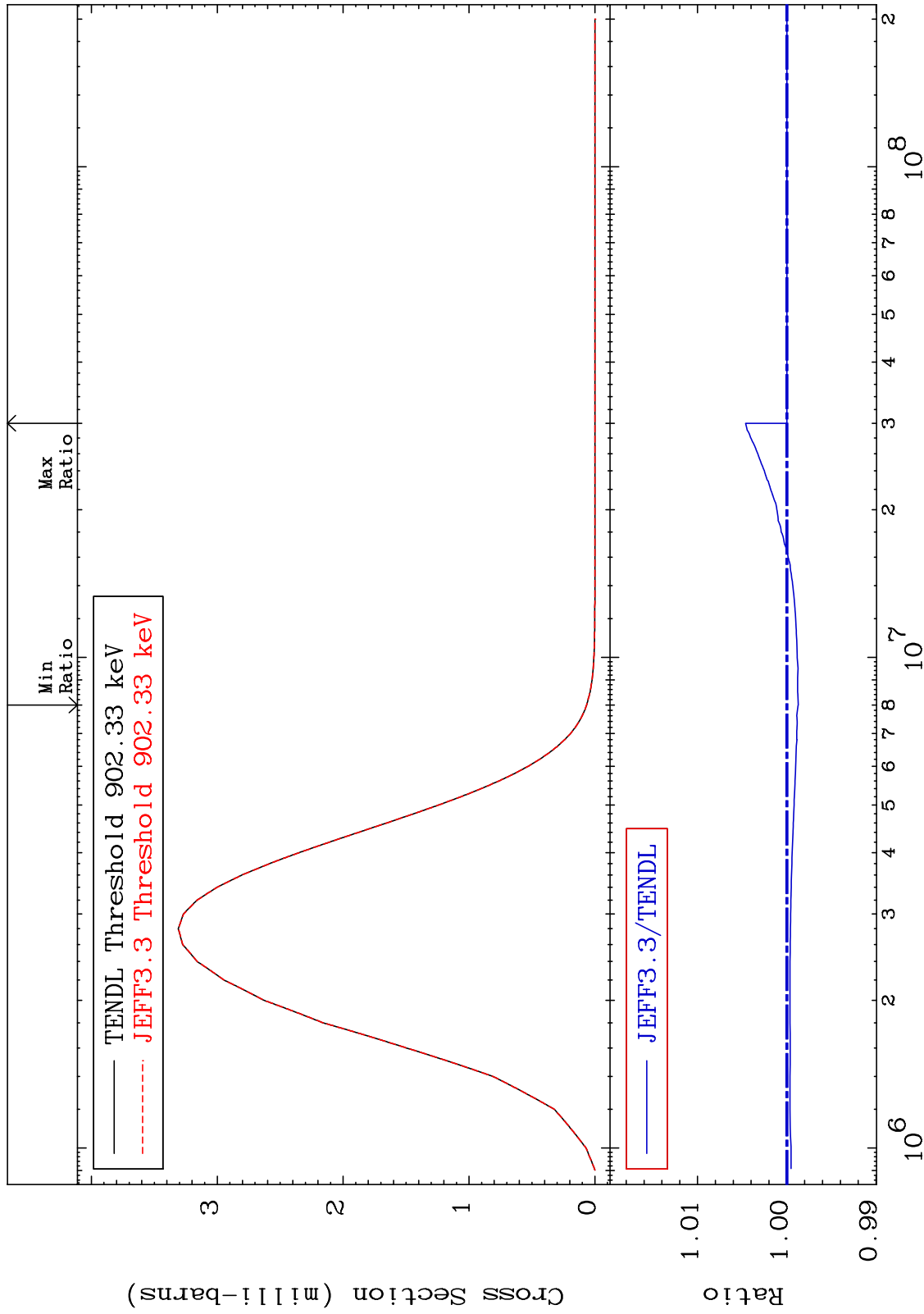


27 Incident Energy (eV) 45-Rh-101

MAT 4519

MT= 59 (n,n') Level
Cross Section

45-Rh-101
-0.128 To 0.463 %

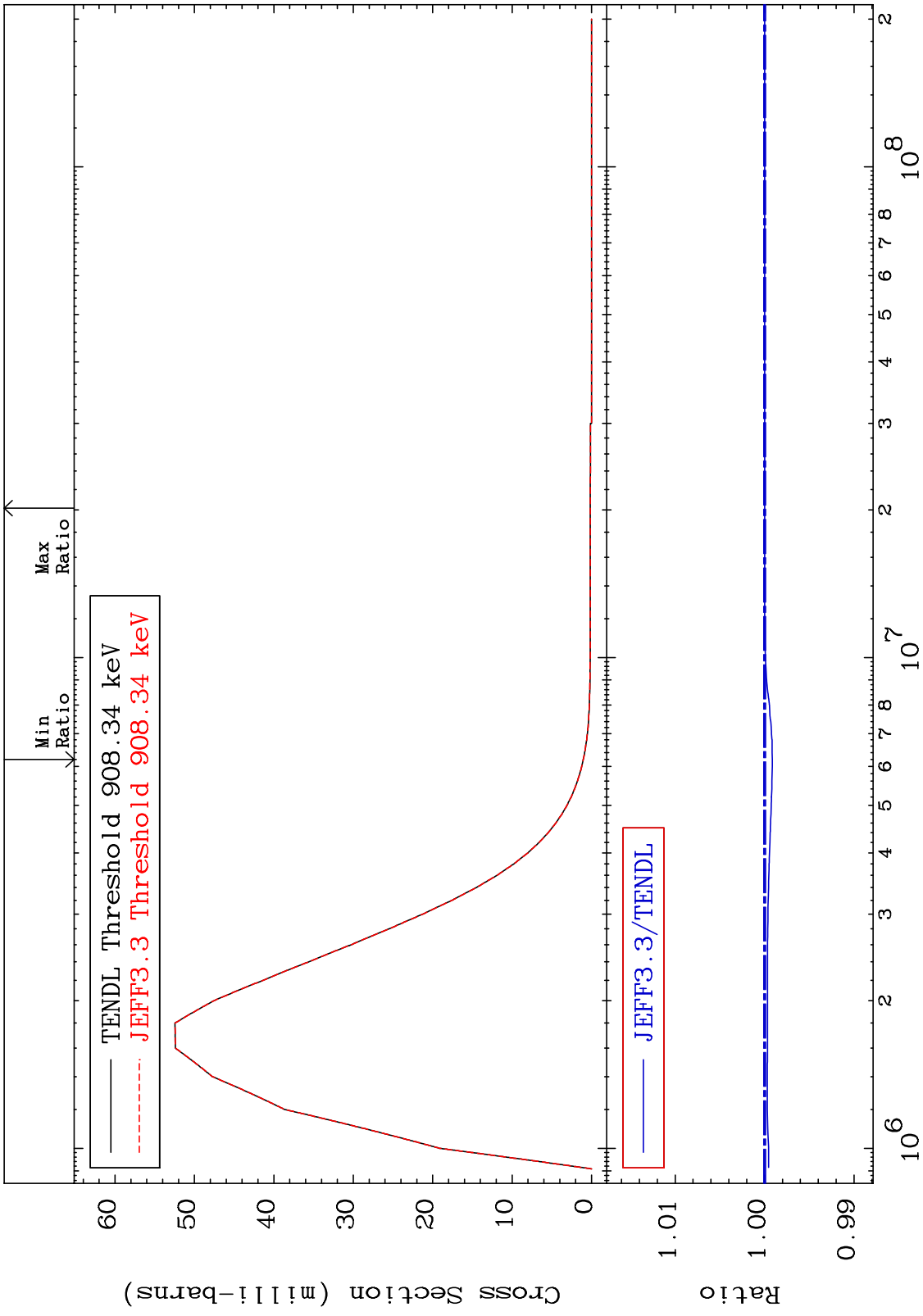


28

Incident Energy (eV)

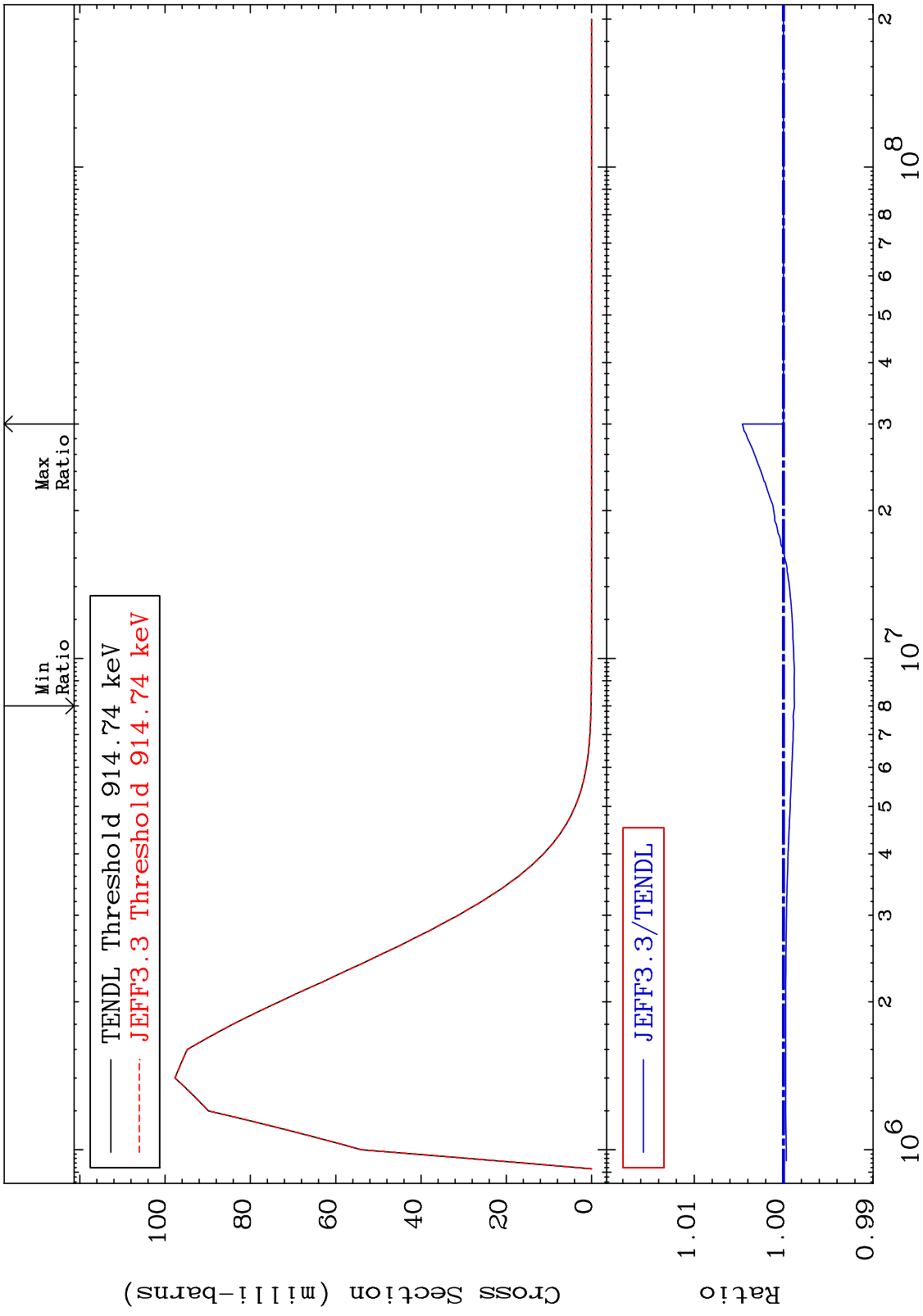
45-Rh-101

MAT 4519 MT= 60 (n,n') Level 45-Rh-101
Cross Section -0.085 To 0.000 %



29 Incident Energy (eV) 45-Rh-101

MAT 4519 MT= 61 (n,n') Level Cross Section 45-Rh-101 -0.123 To 0.461 %

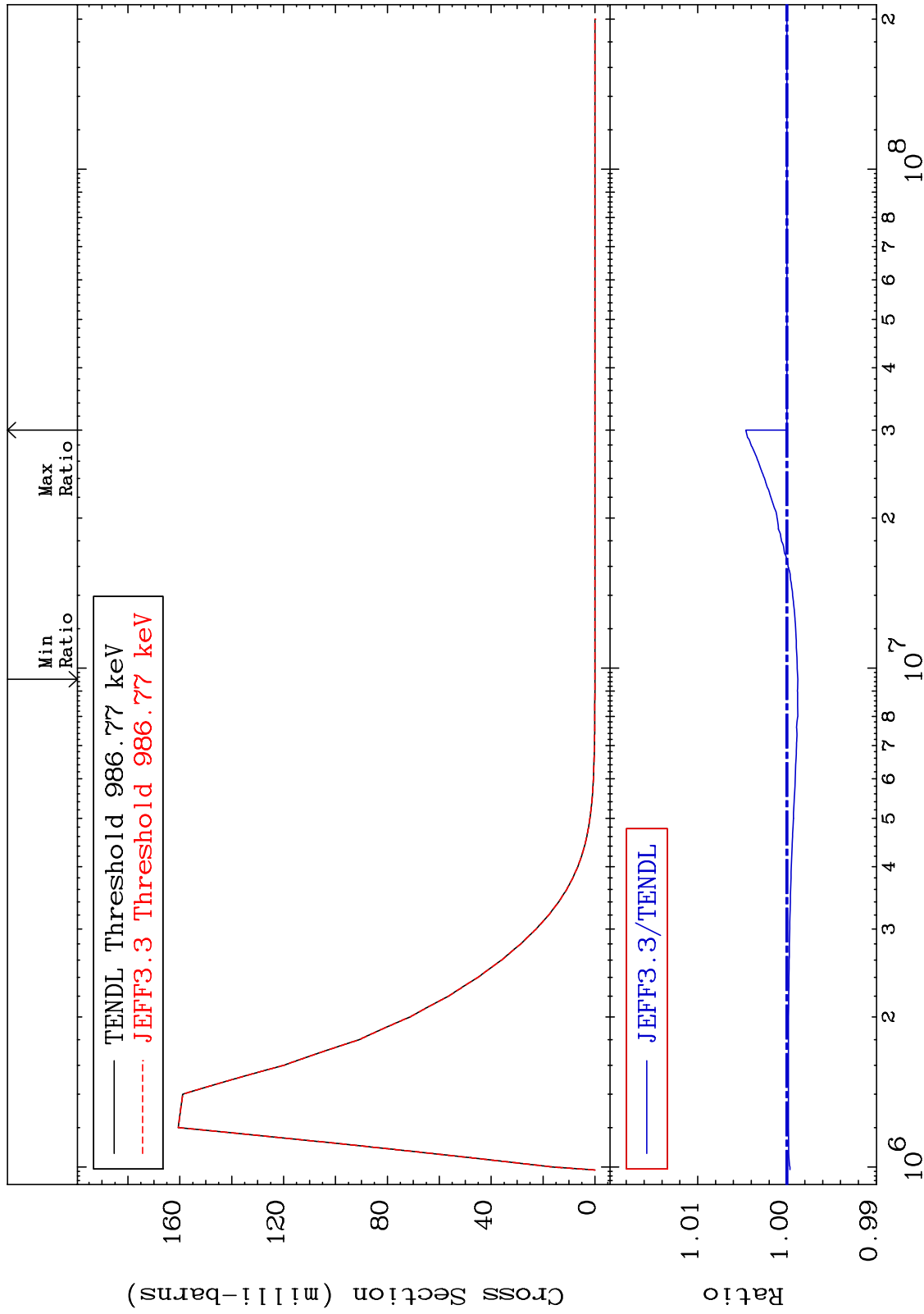


45-Rh-101

MAT 4519

MT= 62 (n,n') Level
Cross Section

45-Rh-101
-0.122 To 0.460 %

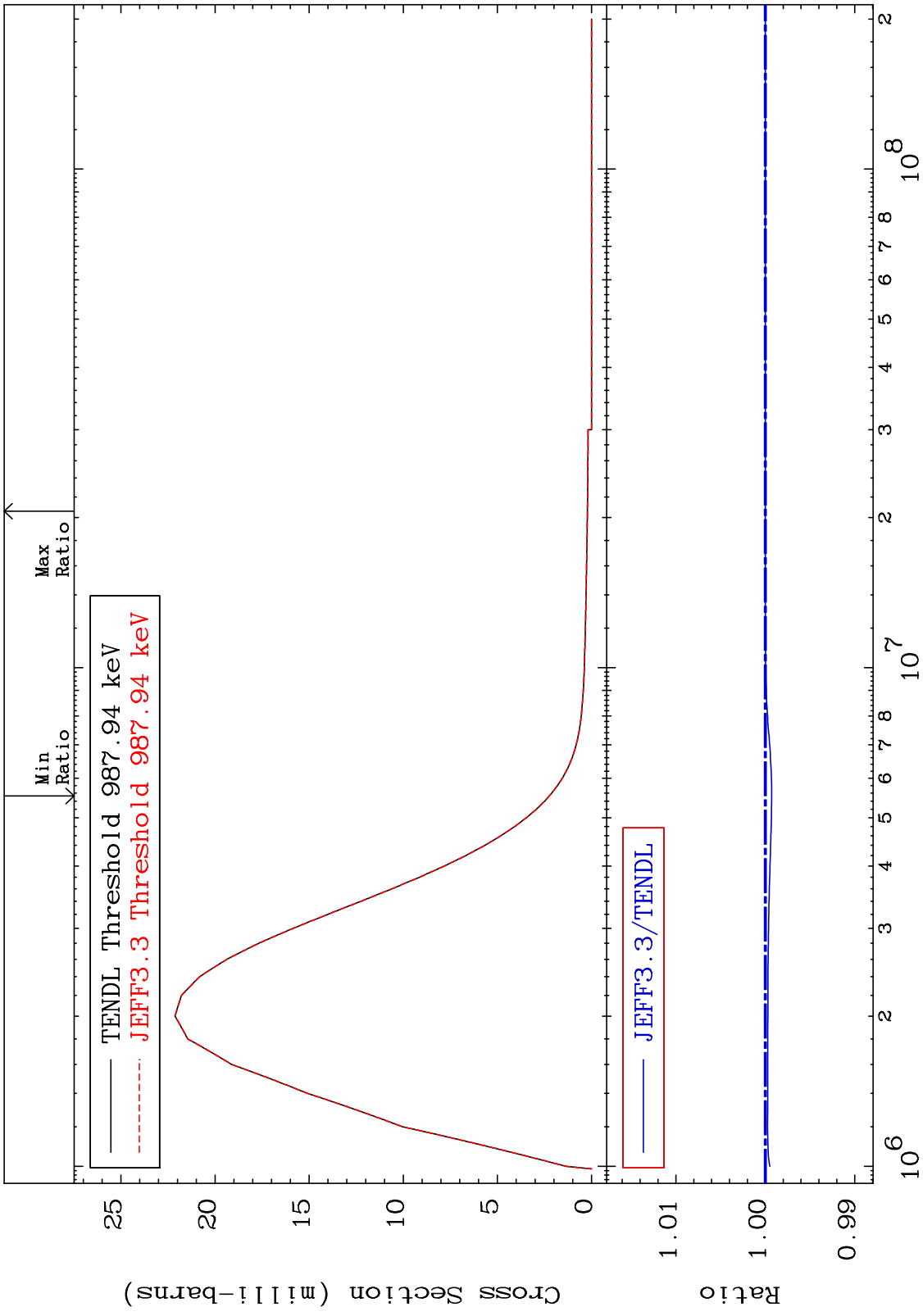


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Incident Energy (eV)

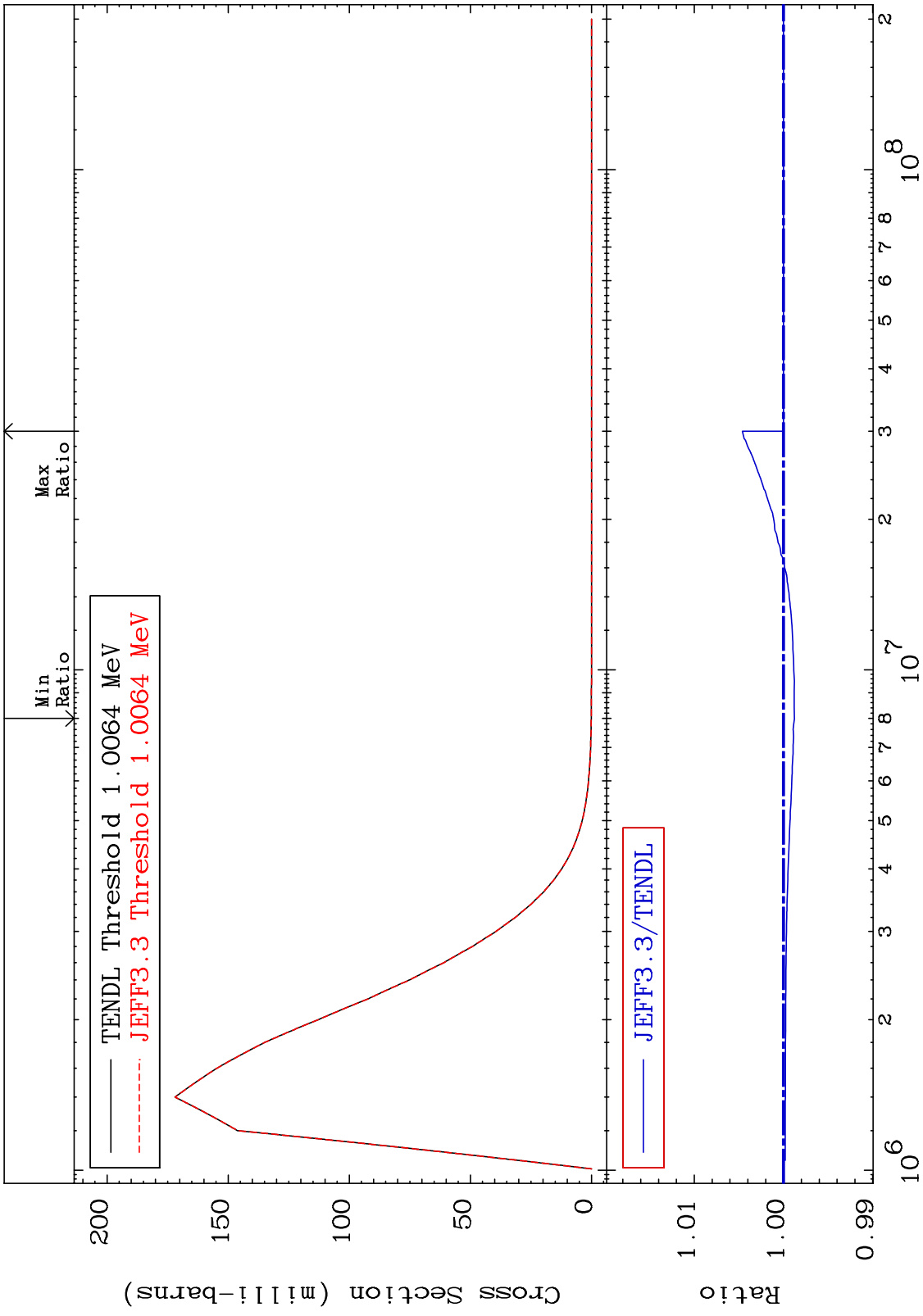
45-Rh-101

MAT 4519 MT= 63 (n,n') Level Cross Section 45-Rh-101
 -0.070 To 0.000 %

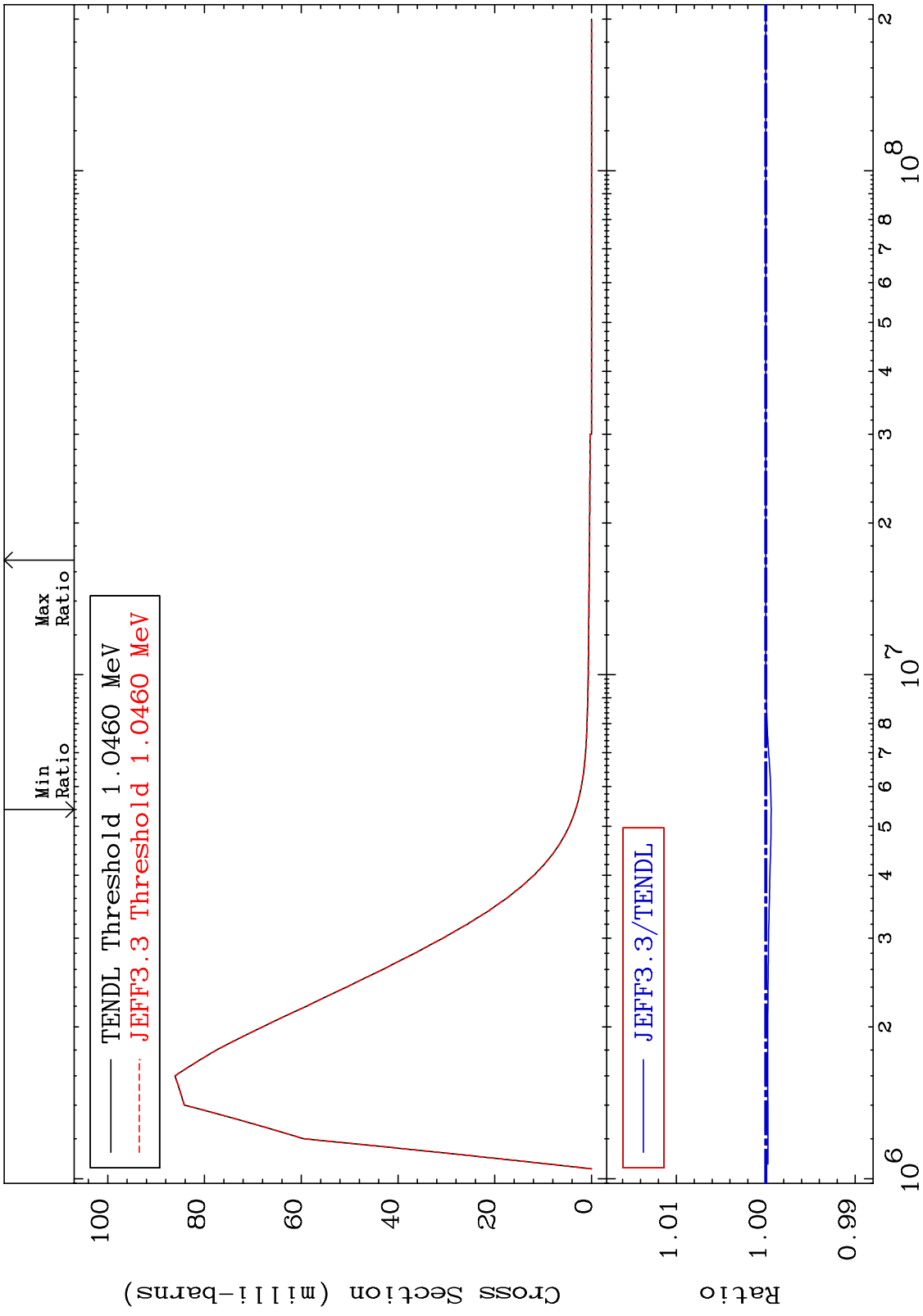


32 Incident Energy (eV) 45-Rh-101

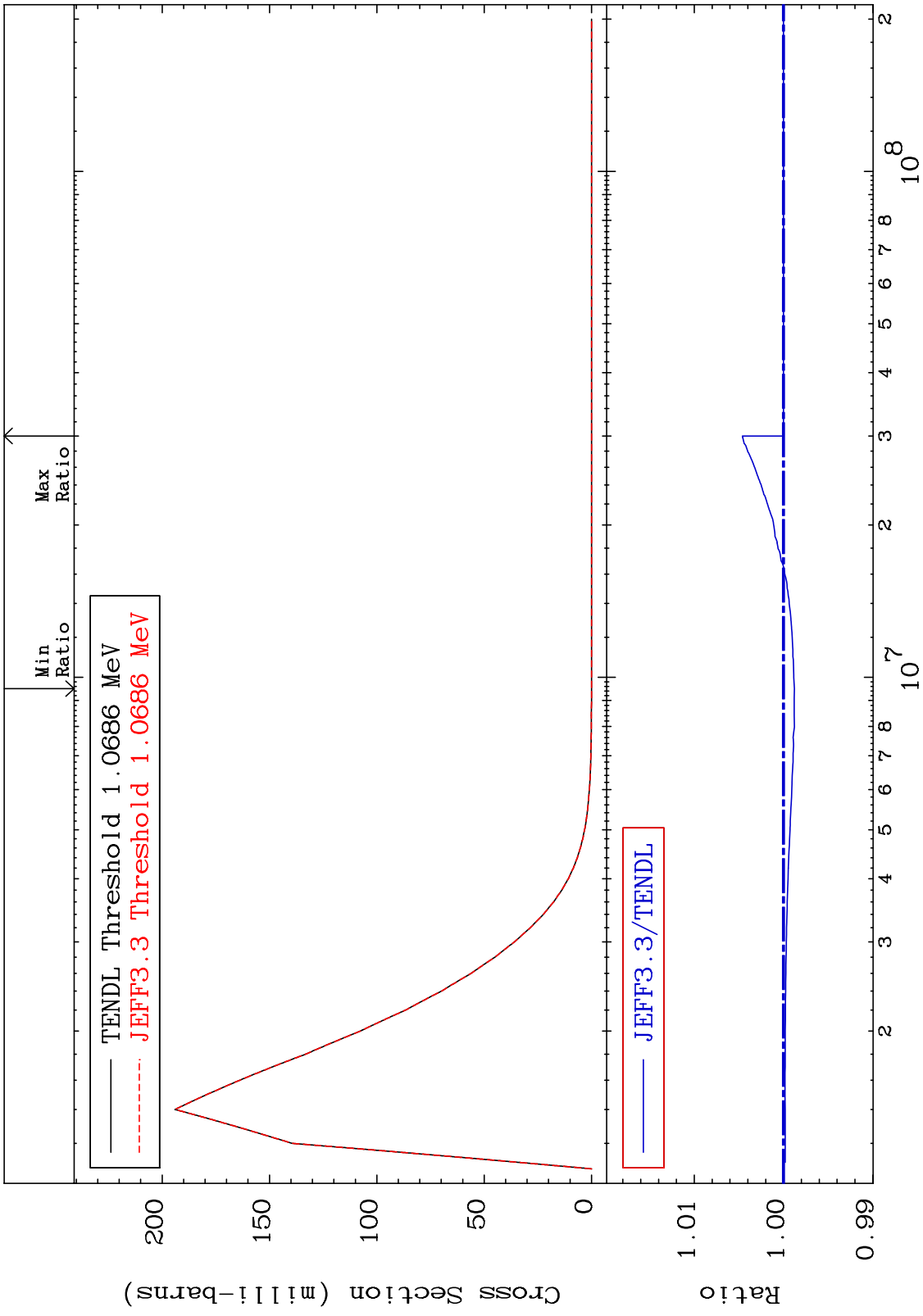
MAT 4519 MT= 64 (n,n') Level Cross Section 45-Rh-101
 -0.123 To 0.461 %



MAT 4519 MT= 65 (n,n') Level Cross Section 45-Rh-101
 -0.060 To 0.000 %



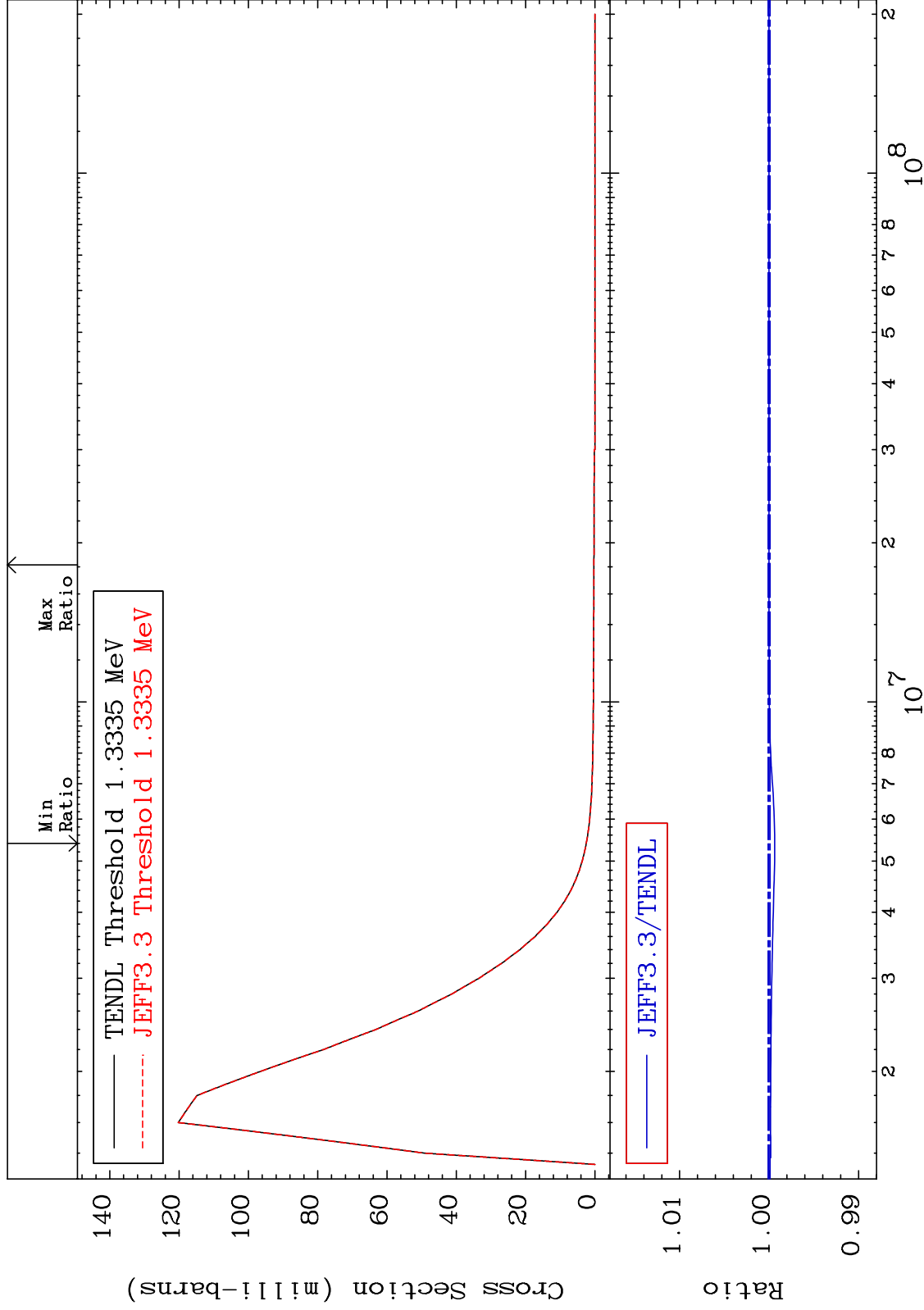
MAT 4519 MT= 66 (n,n') Level Cross Section 45-Rh-101 -0.122 To 0.461 %



MAT 4519

MT= 67 (n,n') Level
Cross Section

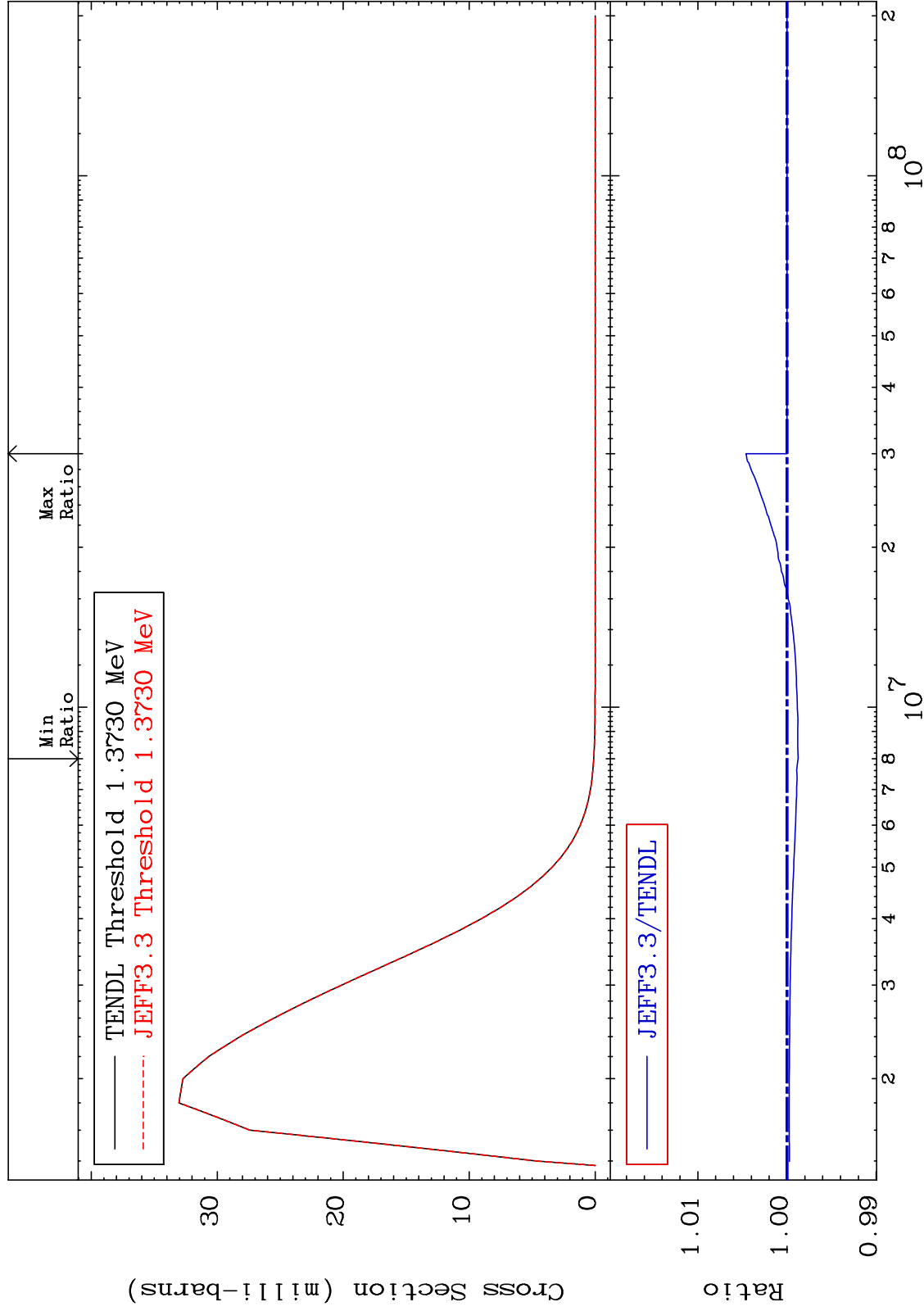
45-Rh-101
-0.063 To 0.000 %



MAT 4519

MT= 68 (n,n') Level
Cross Section

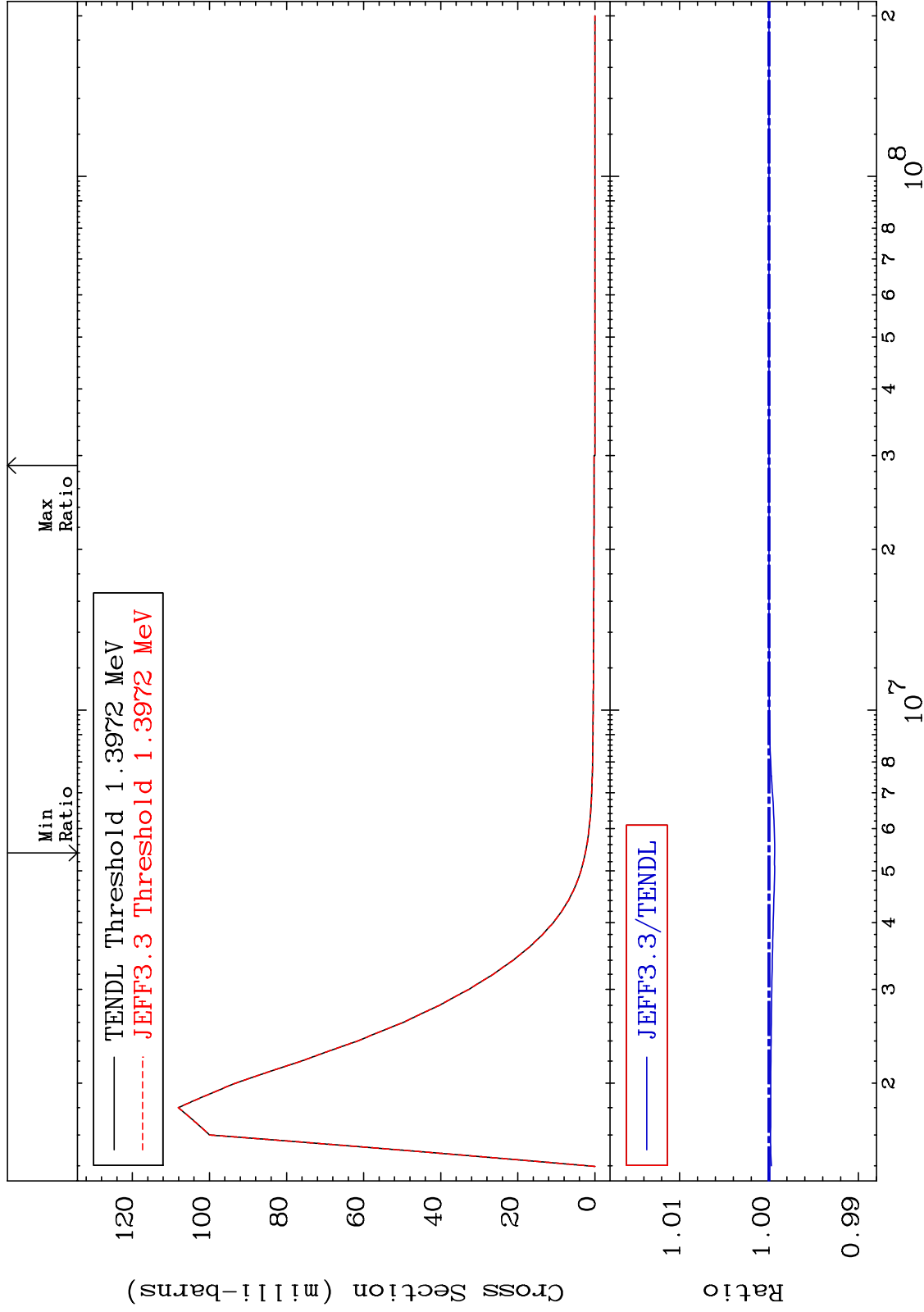
45-Rh-101
-0.125 To 0.461 %



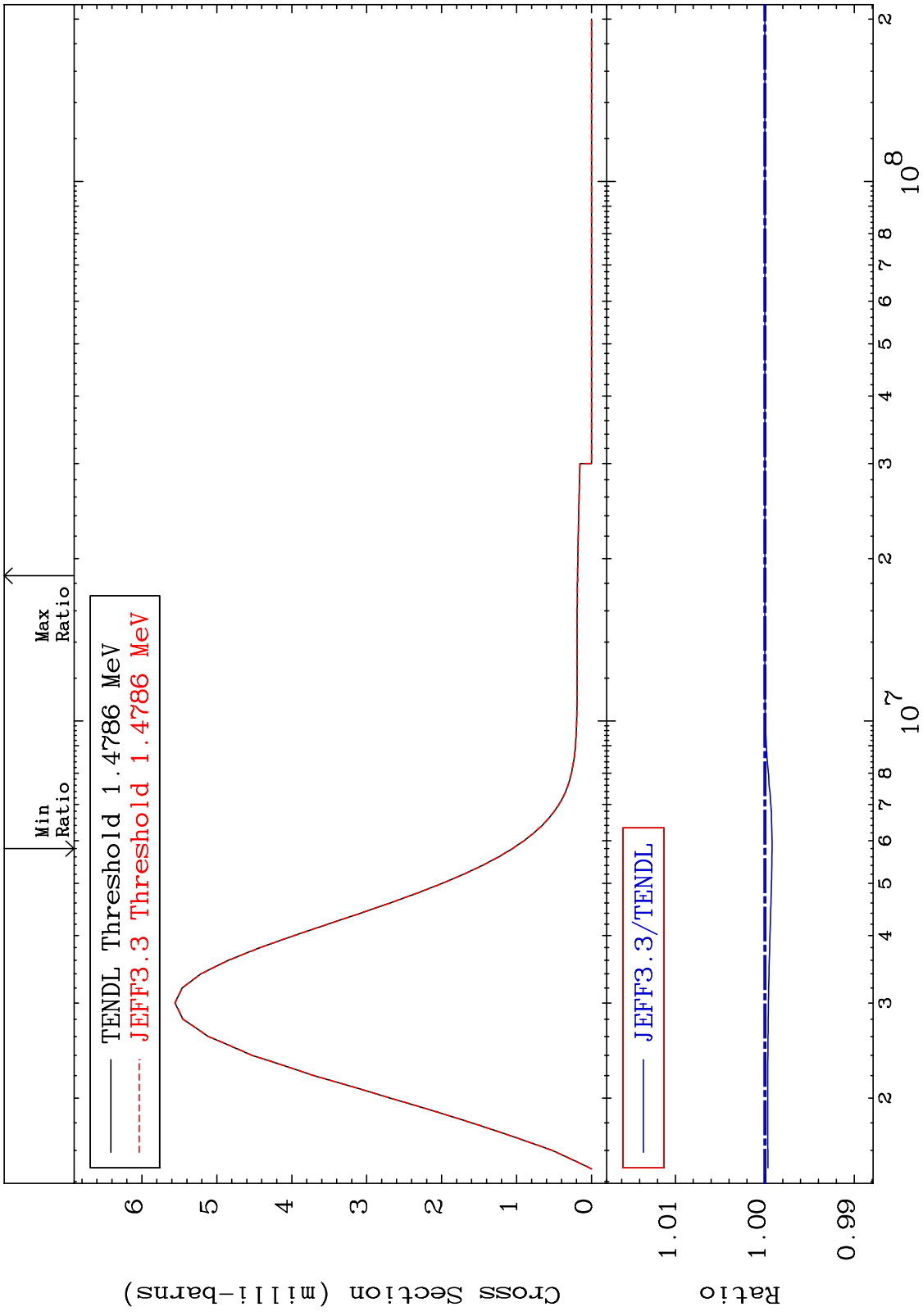
MAT 4519

MT= 69 (n,n') Level
Cross Section

45-Rh-101
-0.063 To 0.000 %



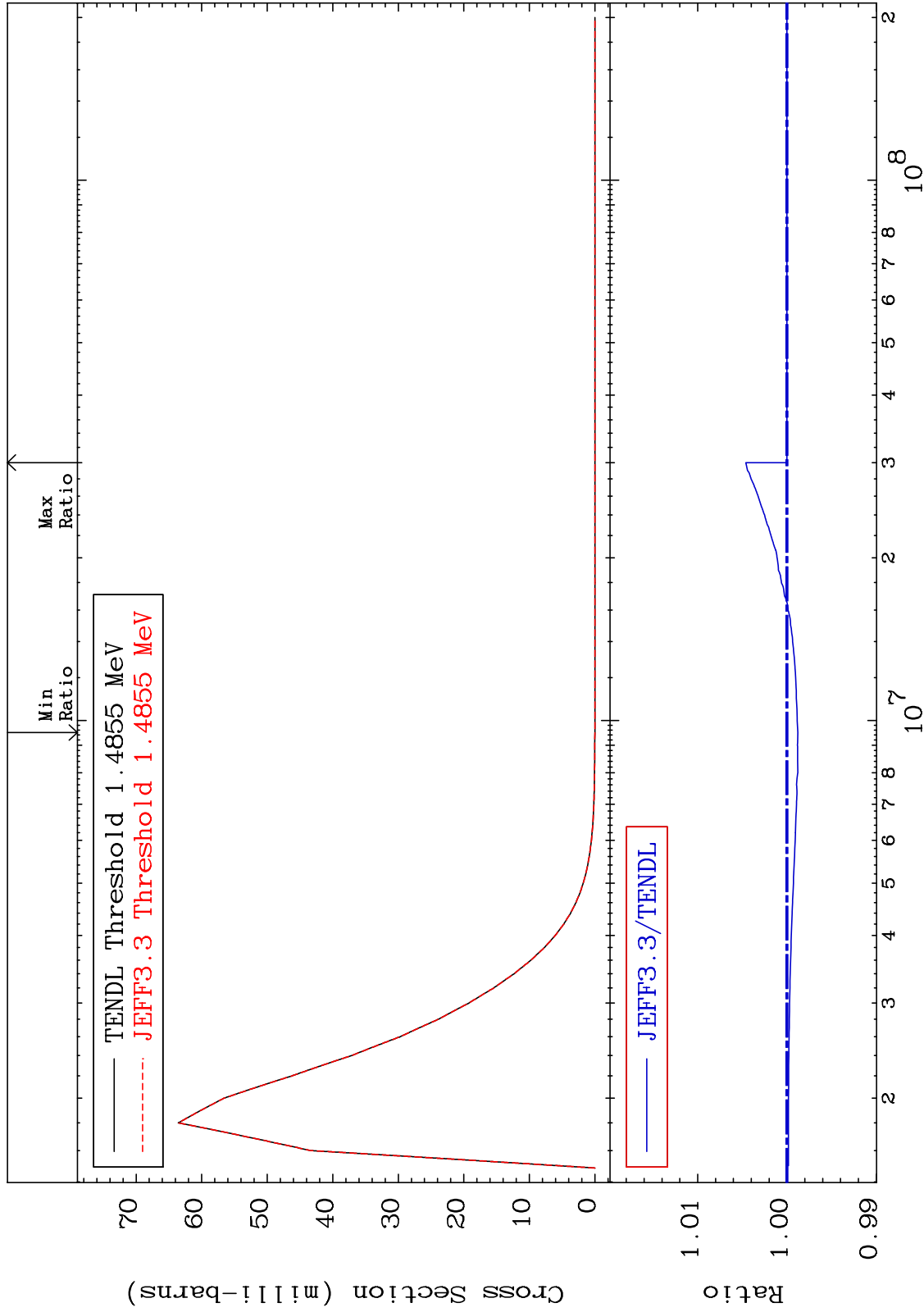
MAT 4519 MT= 70 (n,n') Level Cross Section 45-Rh-101
 -0.081 To 0.000 %



MAT 4519

MT= 71 (n,n') Level
Cross Section

45-Rh-101
-0.122 To 0.460 %



40

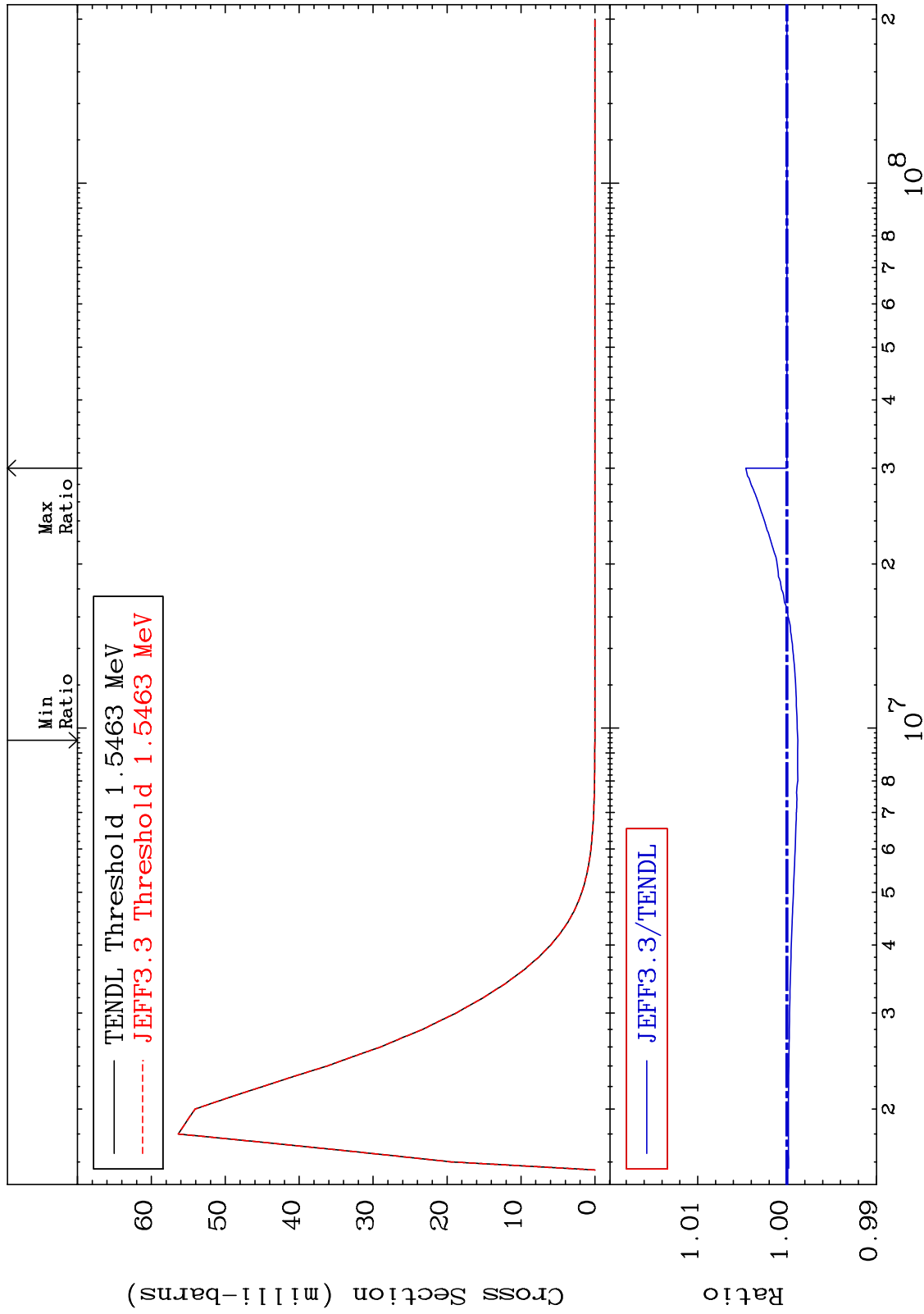
Incident Energy (eV)

45-Rh-101

MAT 4519

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

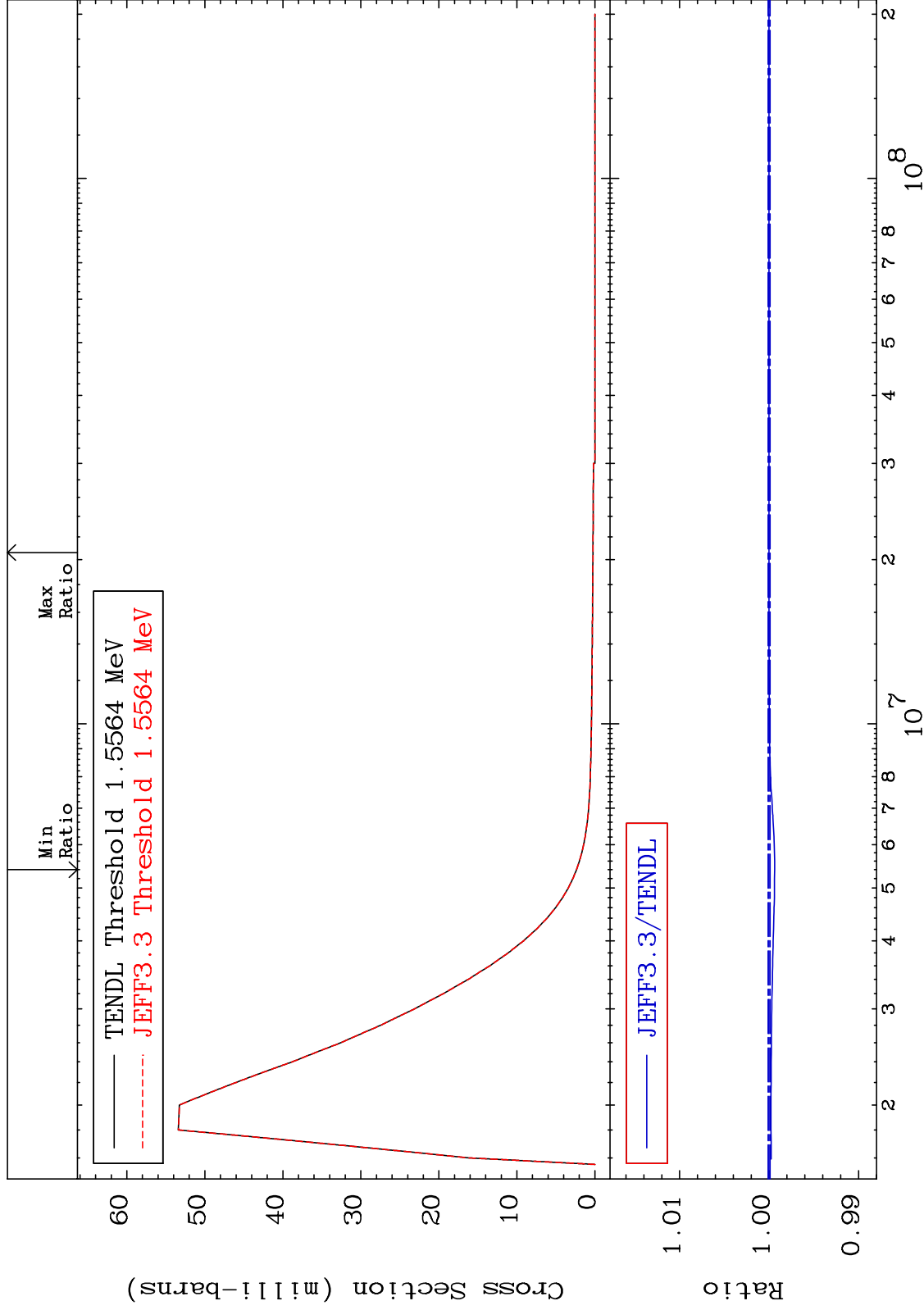
45-Rh-101
-0.122 To 0.460 %



MAT 4519

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

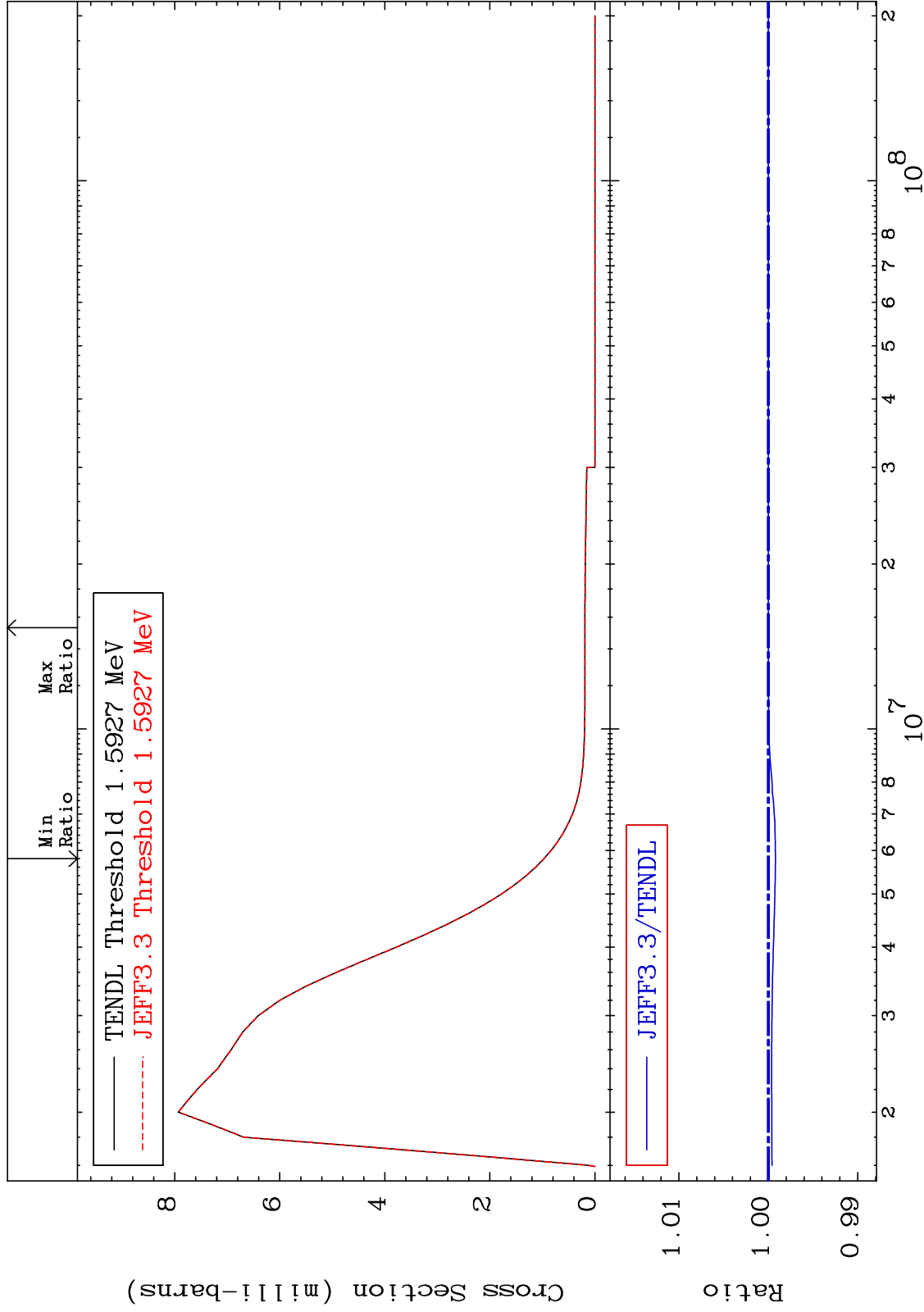
45-Rh-101
-0.063 To 0.000 %



MAT 4519

MT= 74 (n,n') Level
Cross Section

45-Rh-101
-0.080 To 0.000 %



43

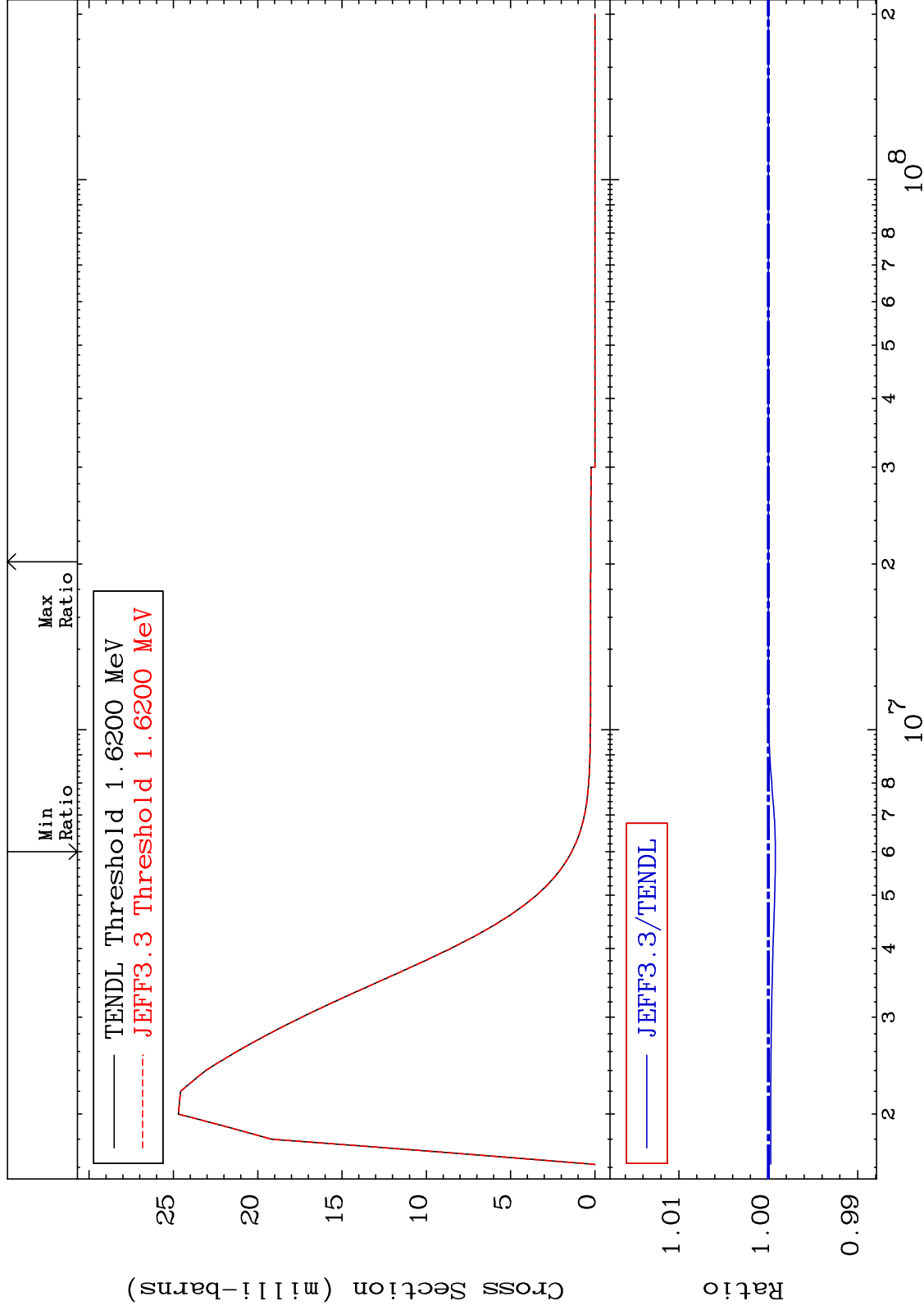
Incident Energy (eV)

45-Rh-101

MAT 4519

MT= 75 (n,n') Level
Cross Section

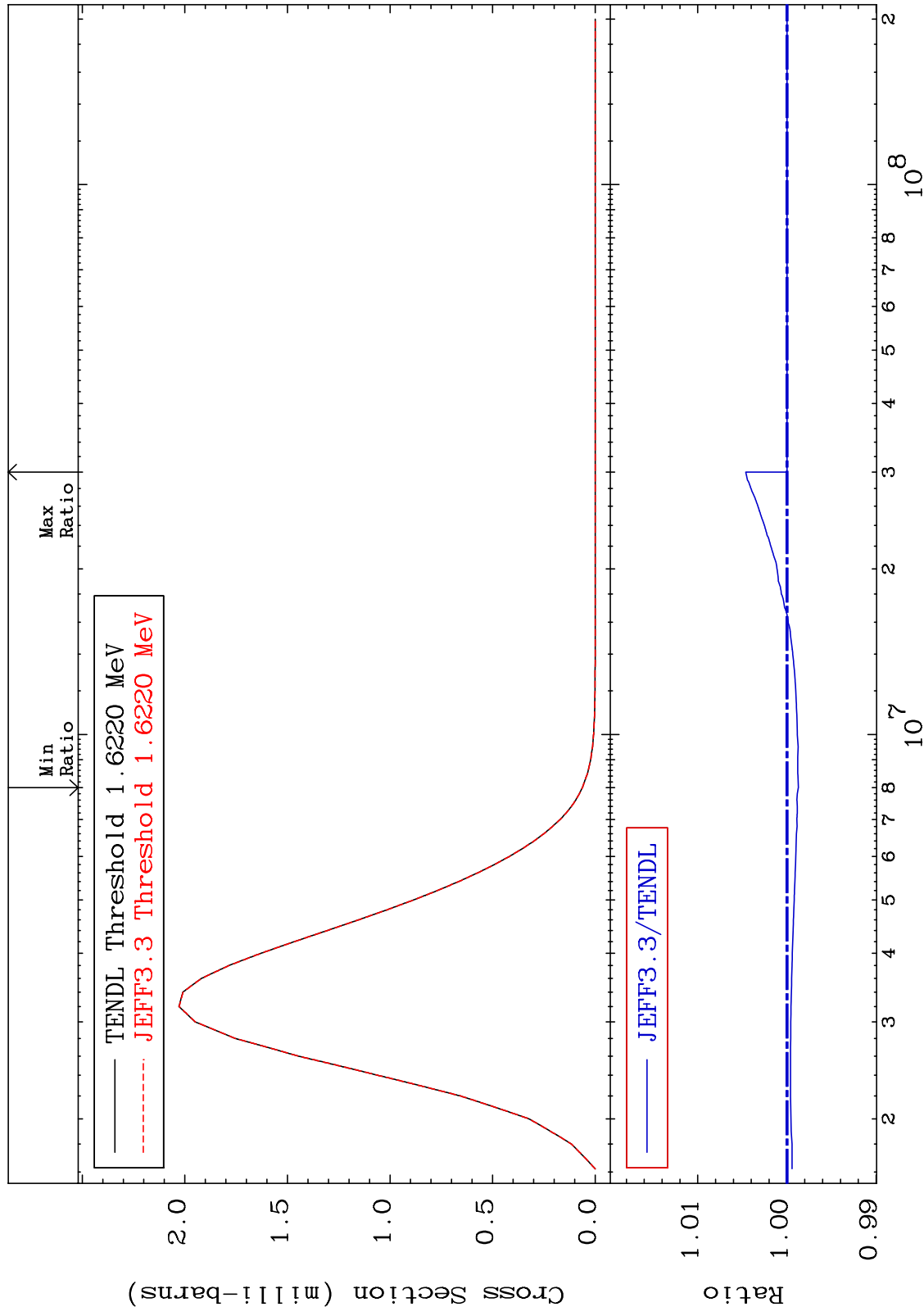
45-Rh-101
-0.079 To 0.000 %



MAT 4519

MT= 76 (n,n') Level
Cross Section

45-Rh-101
-0.128 To 0.463 %



45

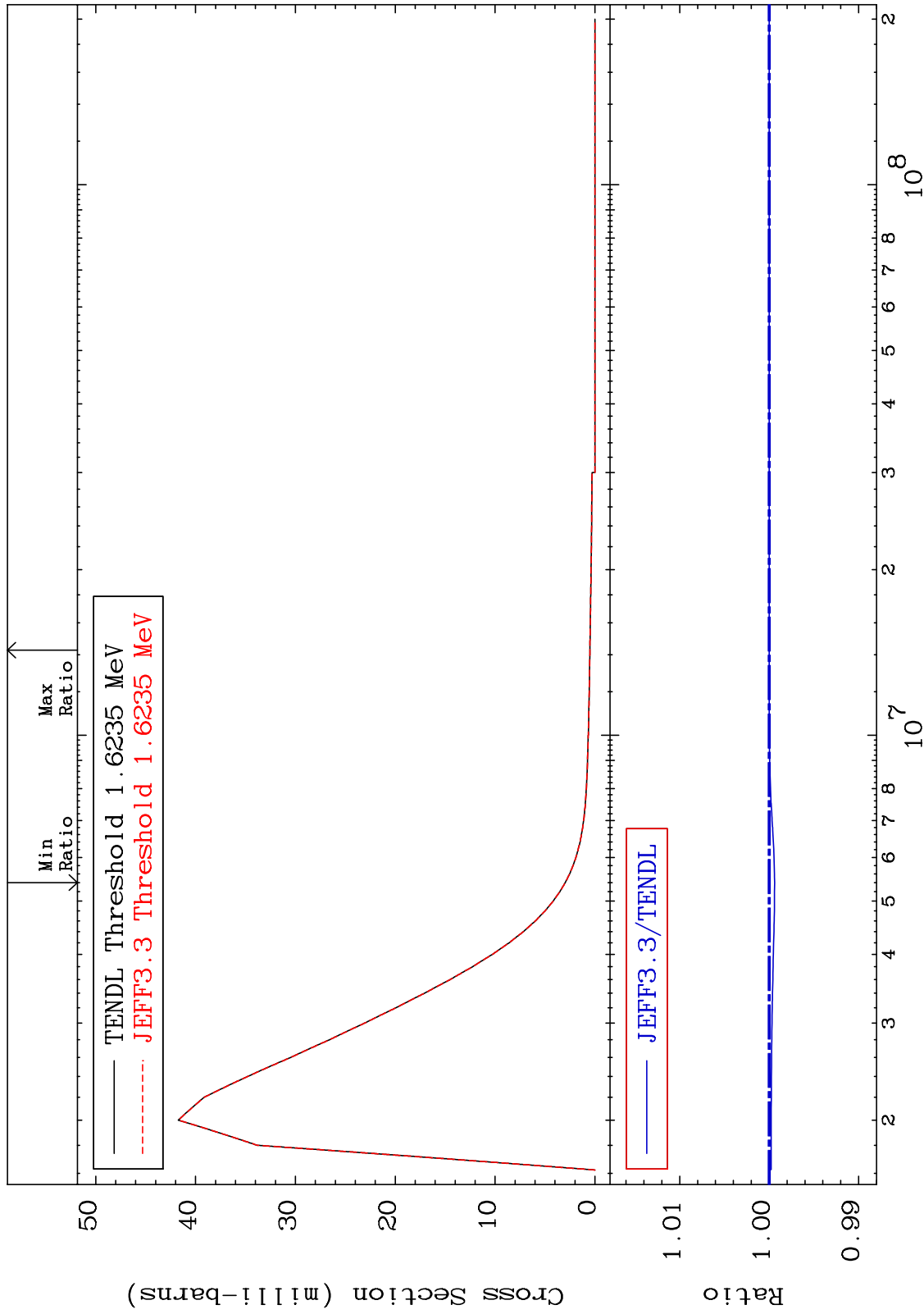
Incident Energy (eV)

45-Rh-101

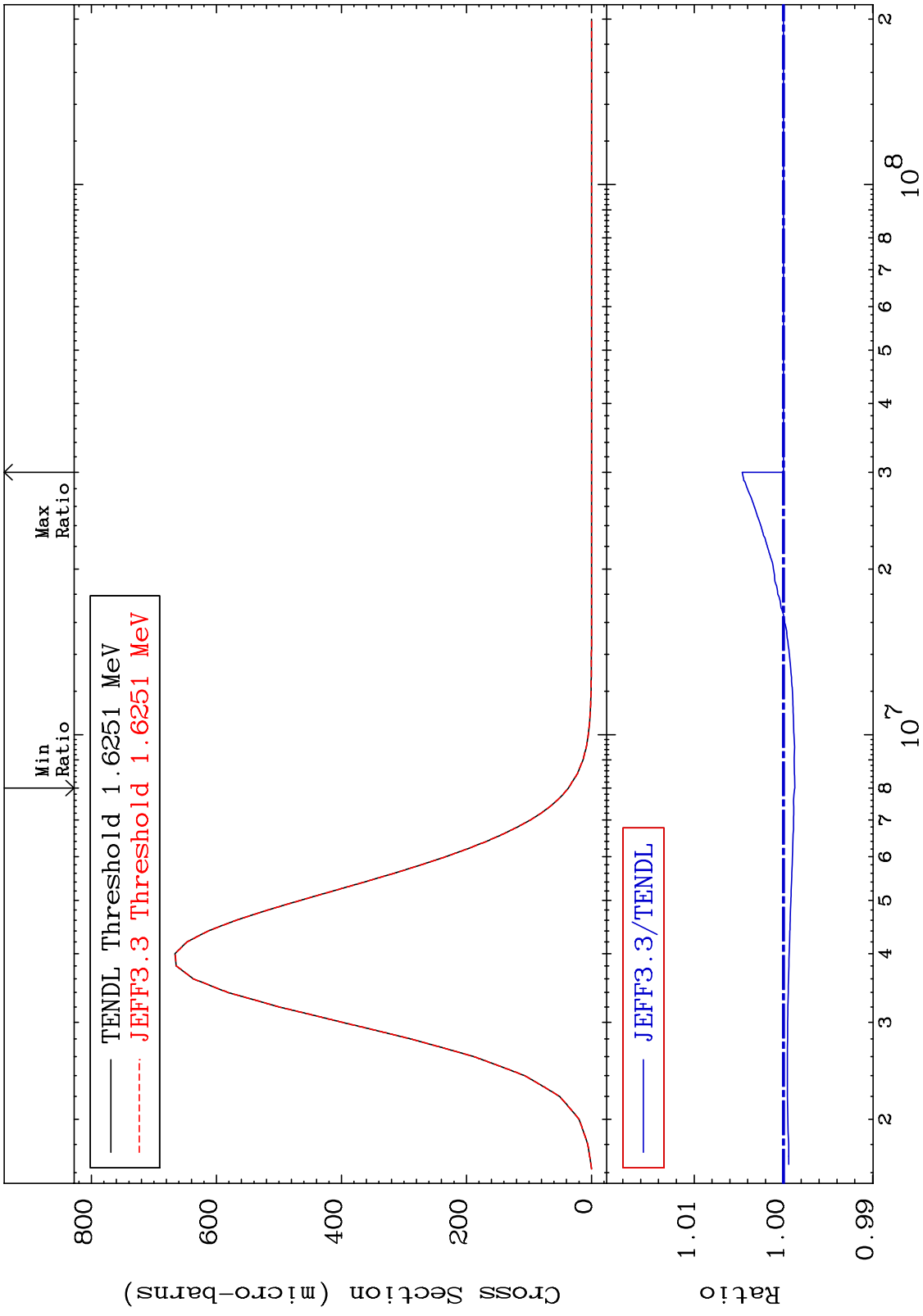
MAT 4519

MT= 77 (n,n') Level
Cross Section

45-Rh-101
-0.061 To 0.000 %



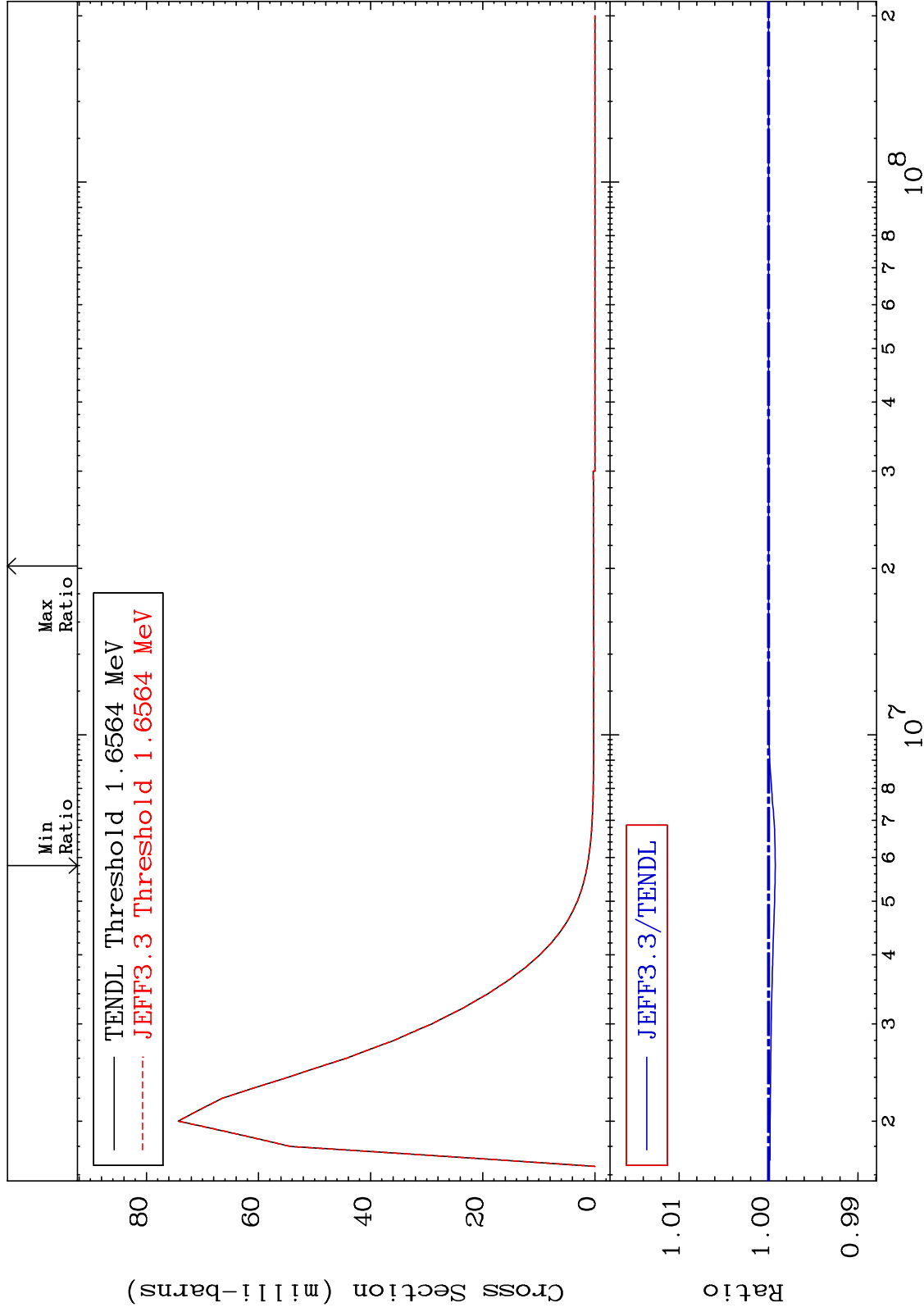
MAT 4519 MT= 78 (n,n') Level Cross Section 45-Rh-101
 -0.128 To 0.464 %



MAT 4519

MT= 79 (n,n') Level
Cross Section

45-Rh-101
-0.076 To 0.000 %

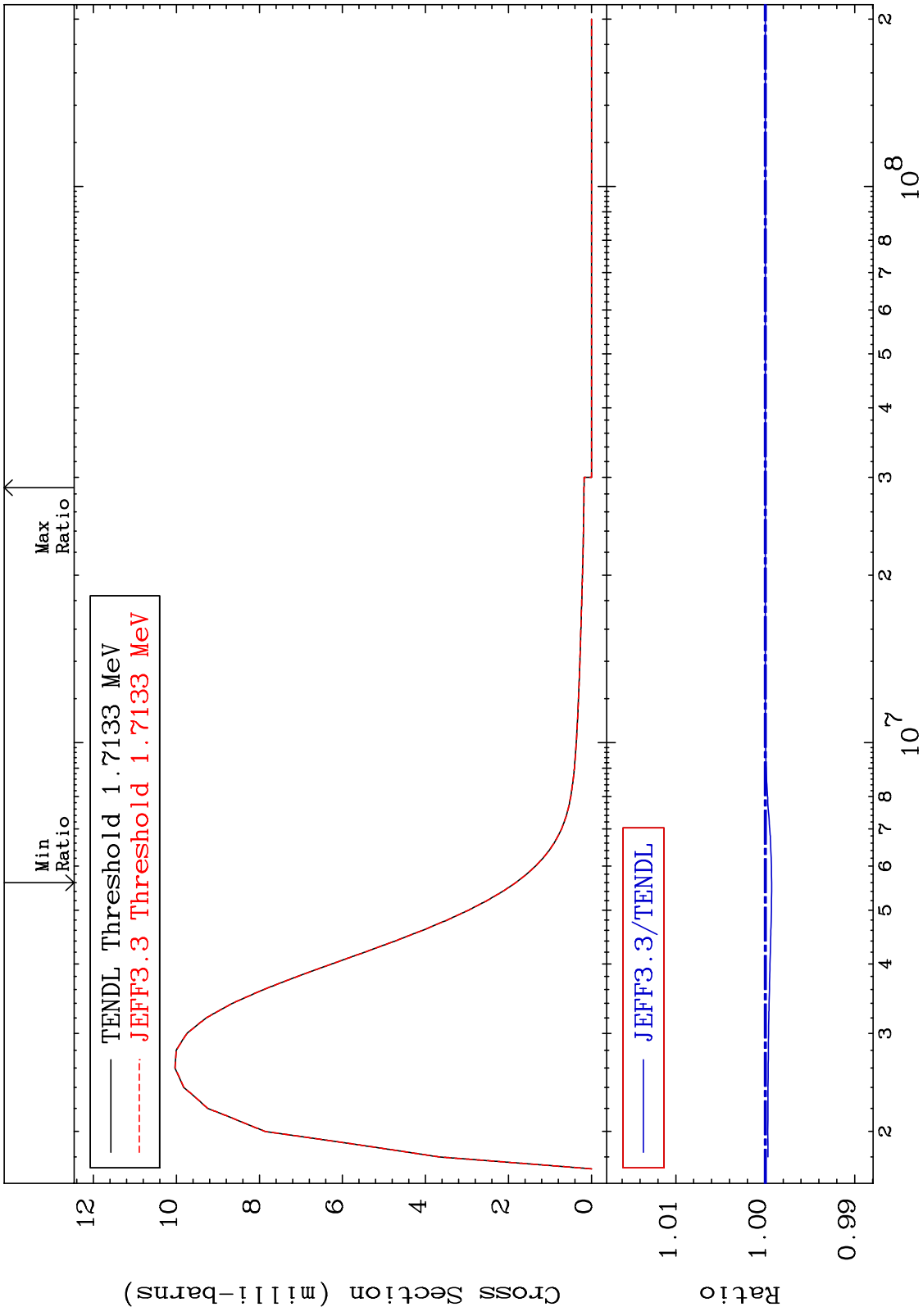


48

Incident Energy (eV)

45-Rh-101

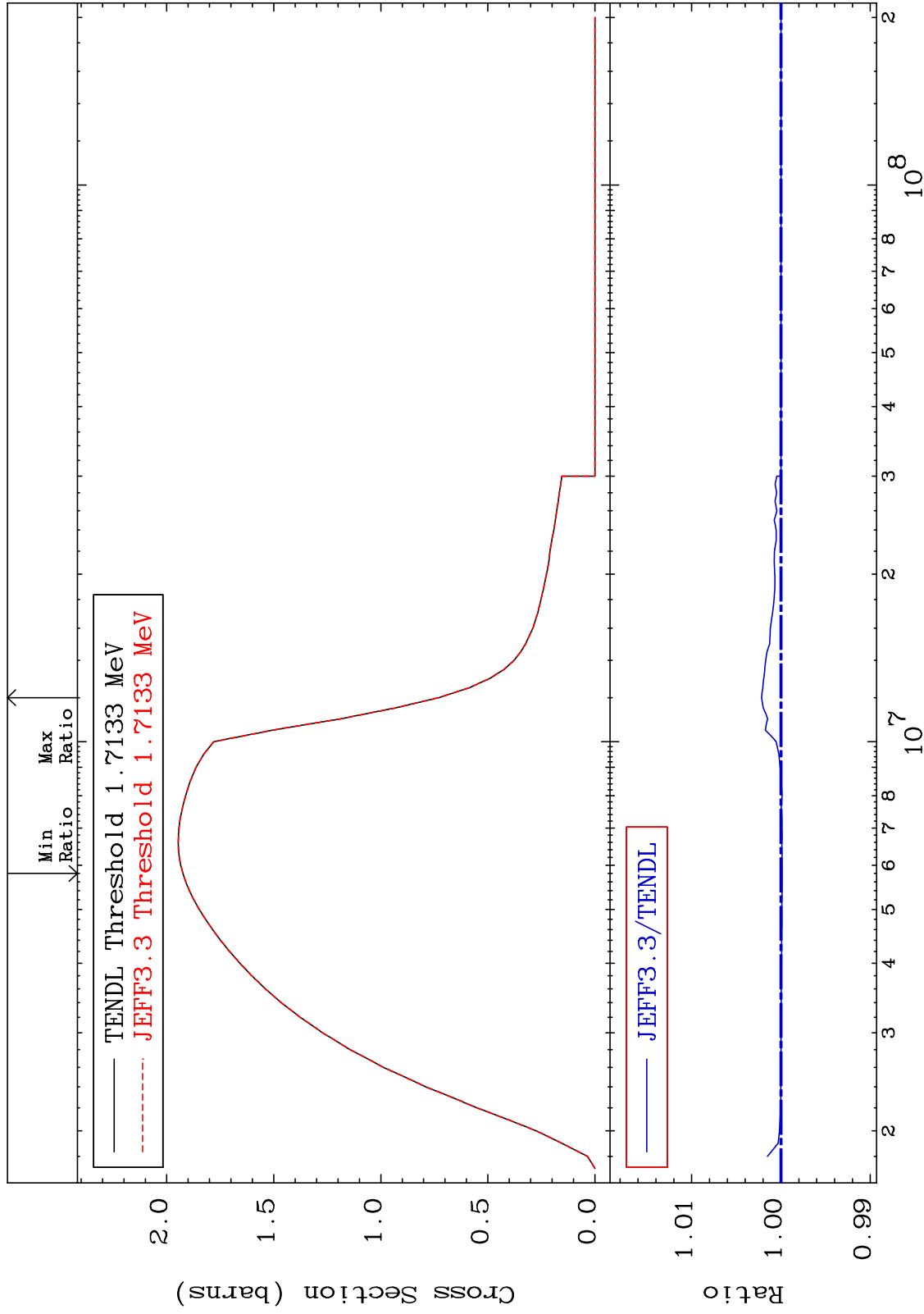
MAT 4519 MT= 80 (n,n') Level Cross Section 45-Rh-101
 -0.071 To 0.000 %



MAT 4519

(n, n') Continuum
Cross Section

45-Rh-101
-0.014 To 0.217 %



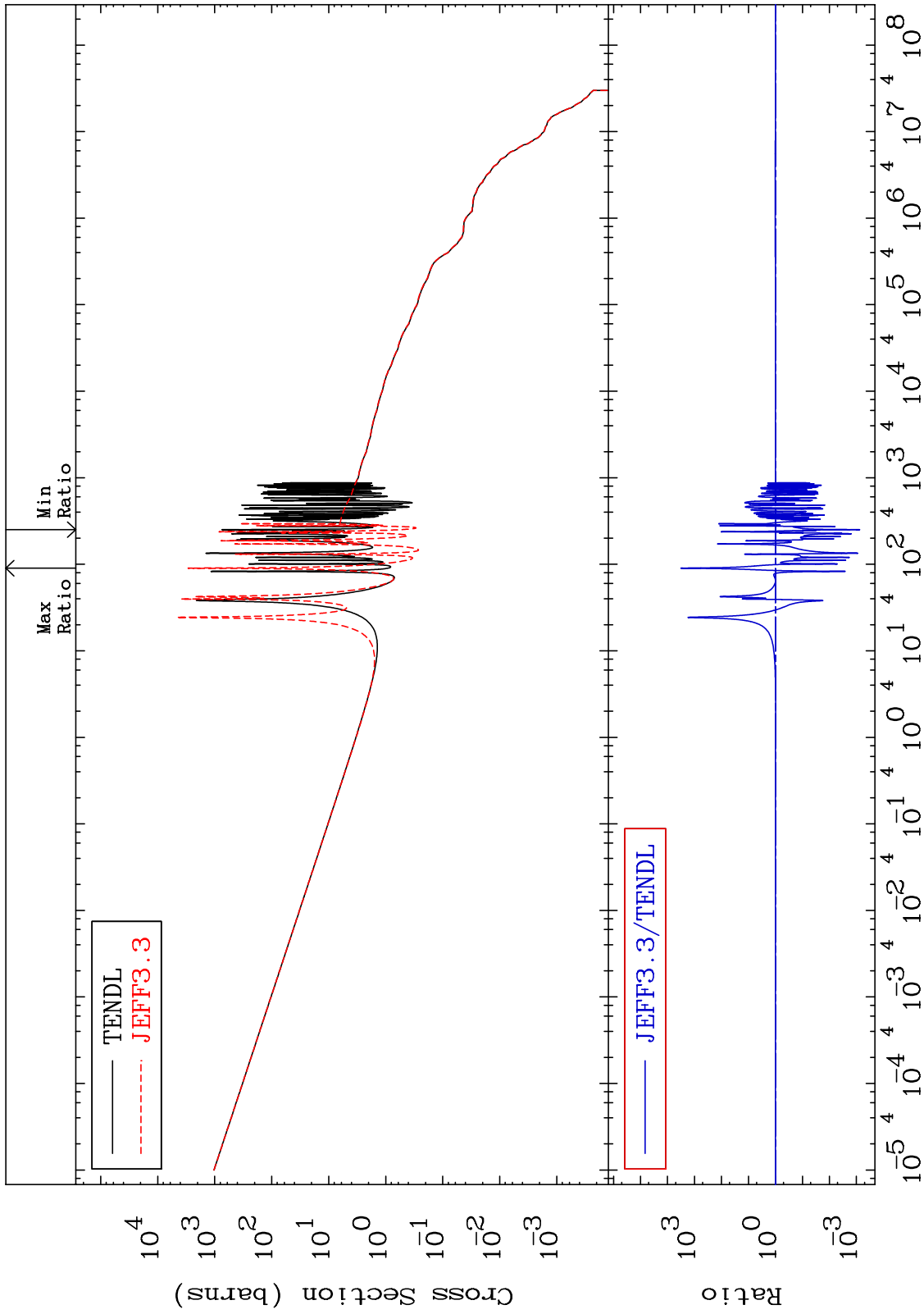
50

Incident Energy (eV)

45-Rh-101

MAT 4519

(n, γ) Cross Section
45-Rh-101
-99.92 To 9999. %



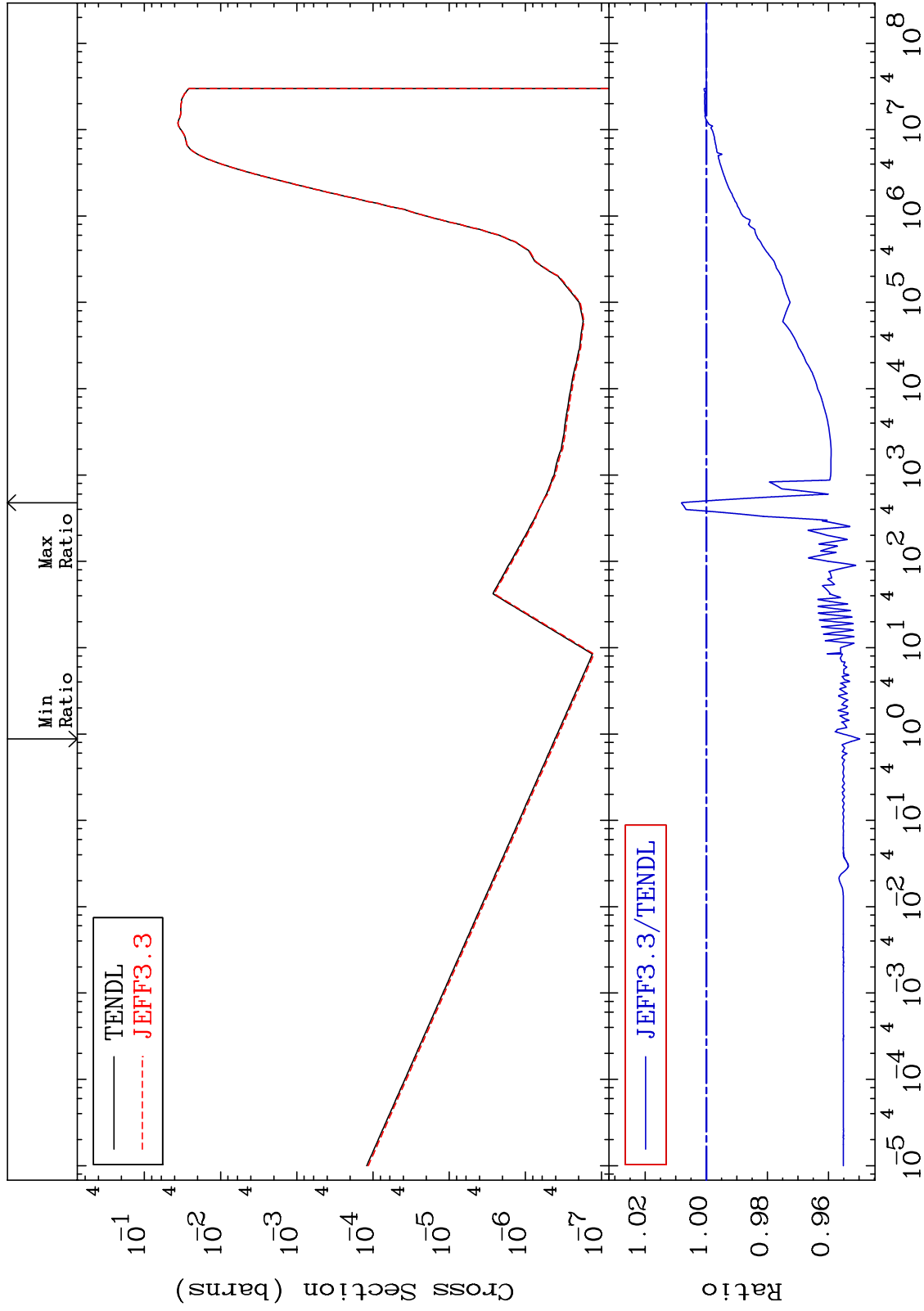
MAT 4519

(n,p)

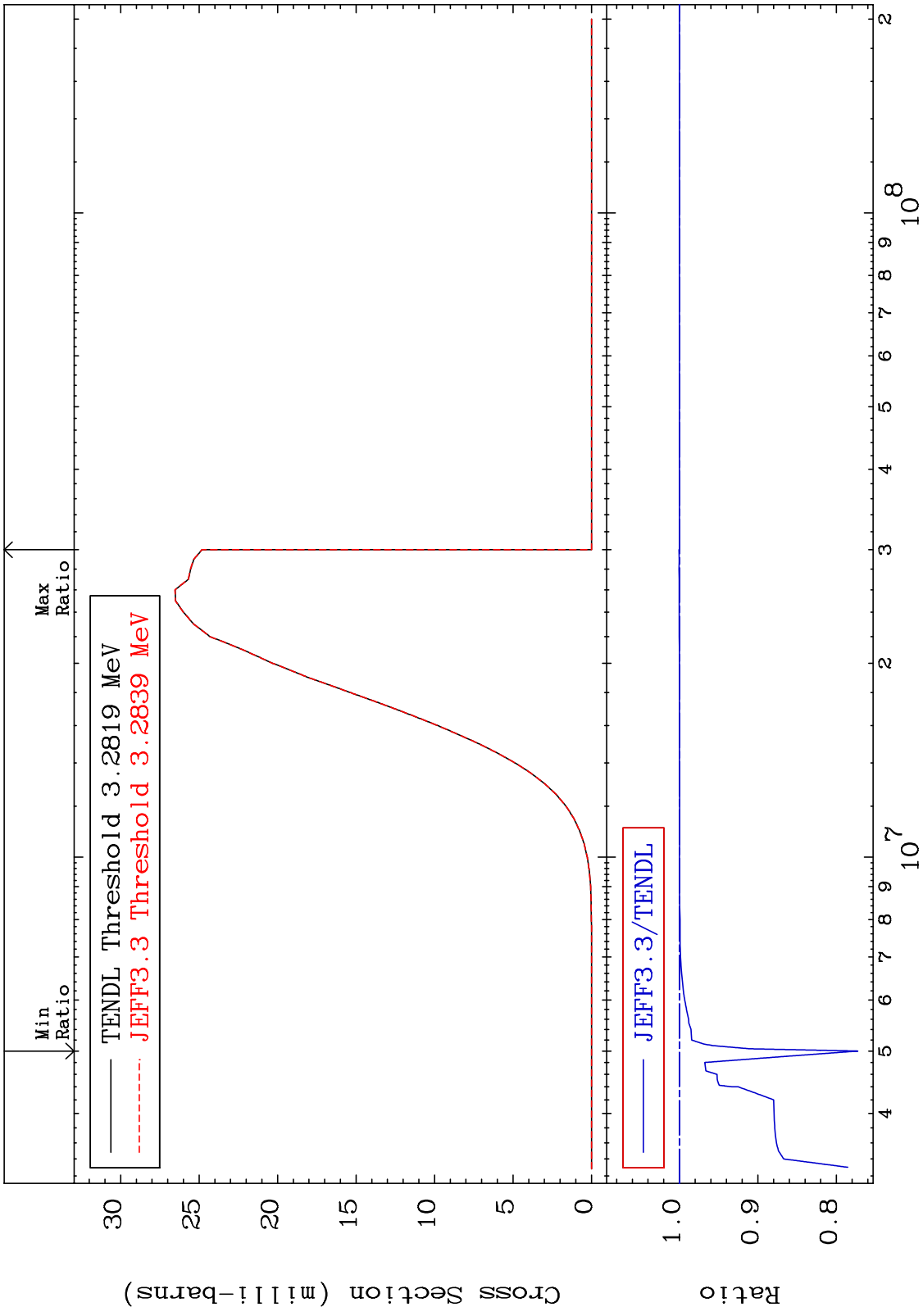
45-Rh-101

-5.026 To 0.822 %

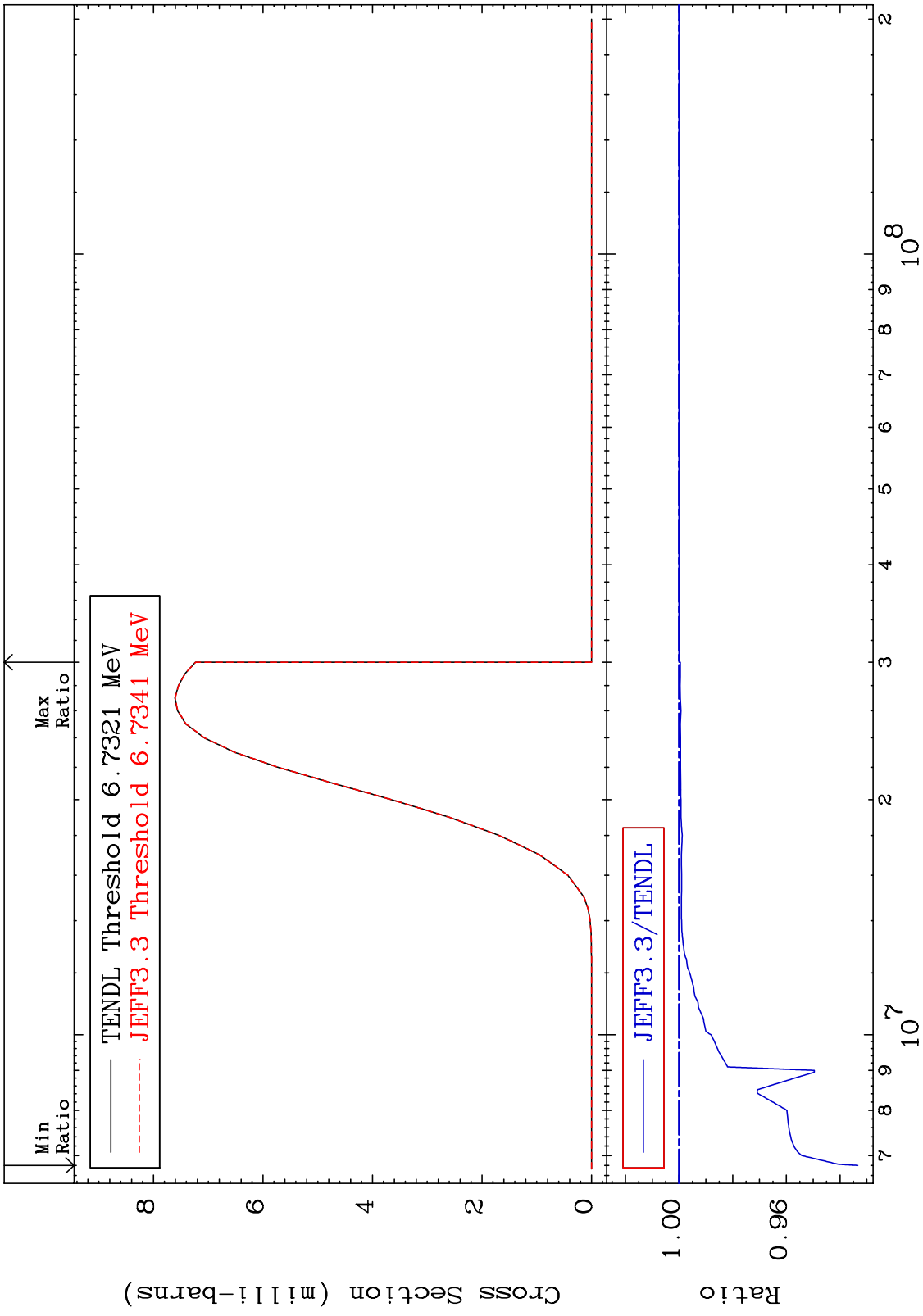
Cross Section

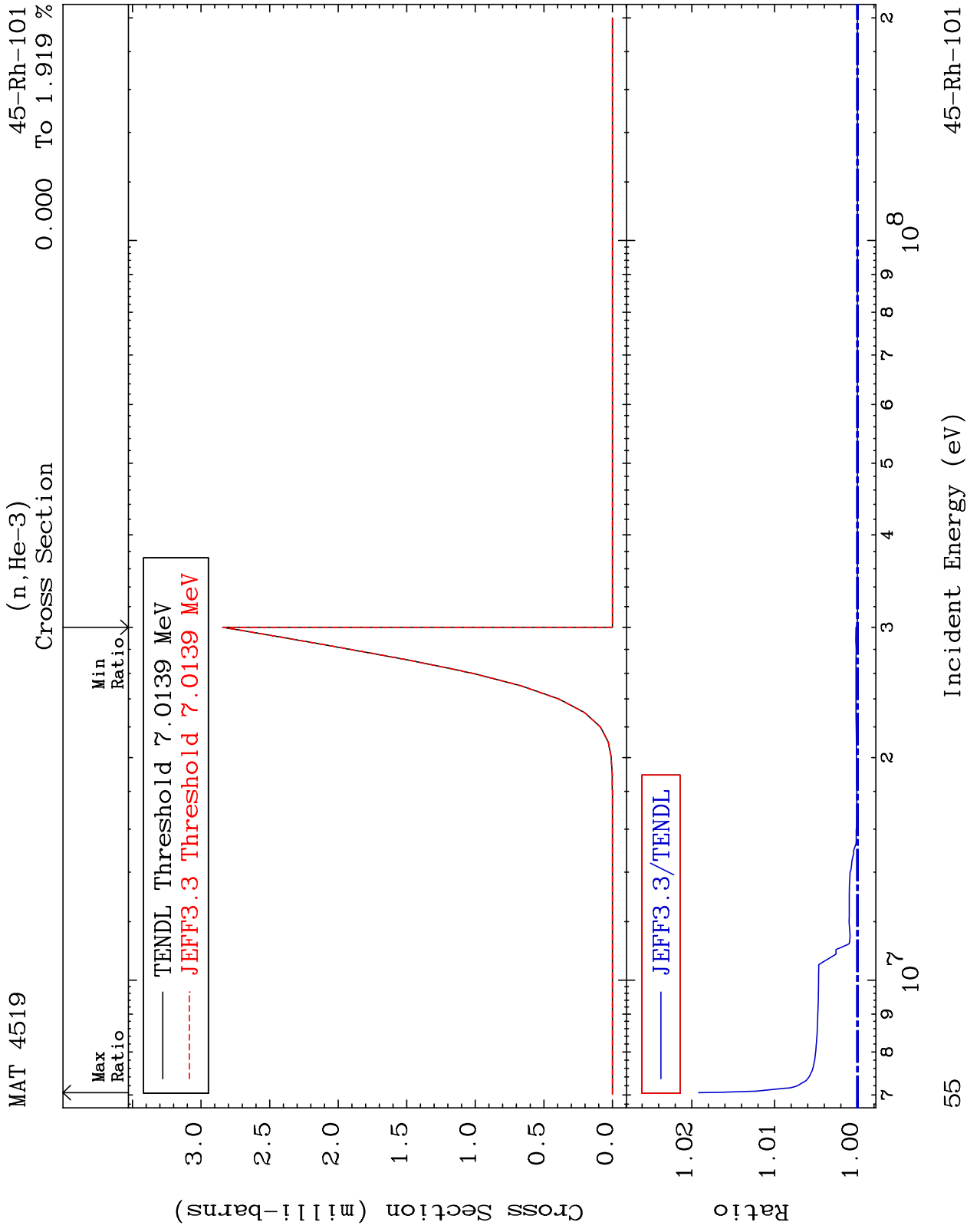


MAT 4519 (n,d) Cross Section 45-Rh-101
 -22.73 To 0.048 %



MAT 4519 (n,t) 45-Rh-101 -6.665 To 0.000 %





MAT 4519

(n, α)

45-Rh-101

-5.823 To 2407. %

Cross Section

Max Ratio

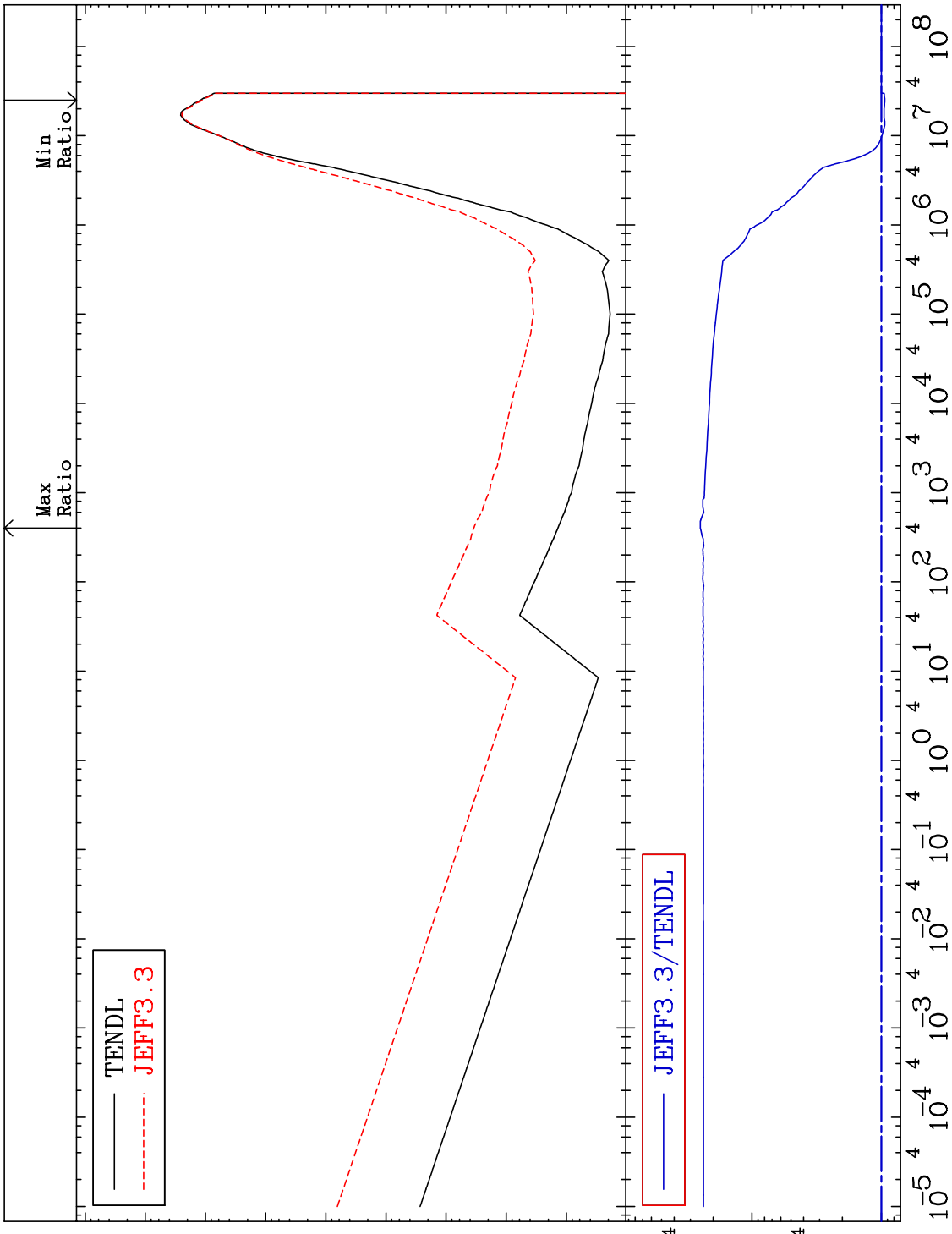
Min Ratio



Cross Section (barns)
 10^{-1}
 10^{-2}
 10^{-3}
 10^{-4}
 10^{-5}
 10^{-6}
 10^{-7}
 10^{-8}



Ratio
 10^1
 10^0



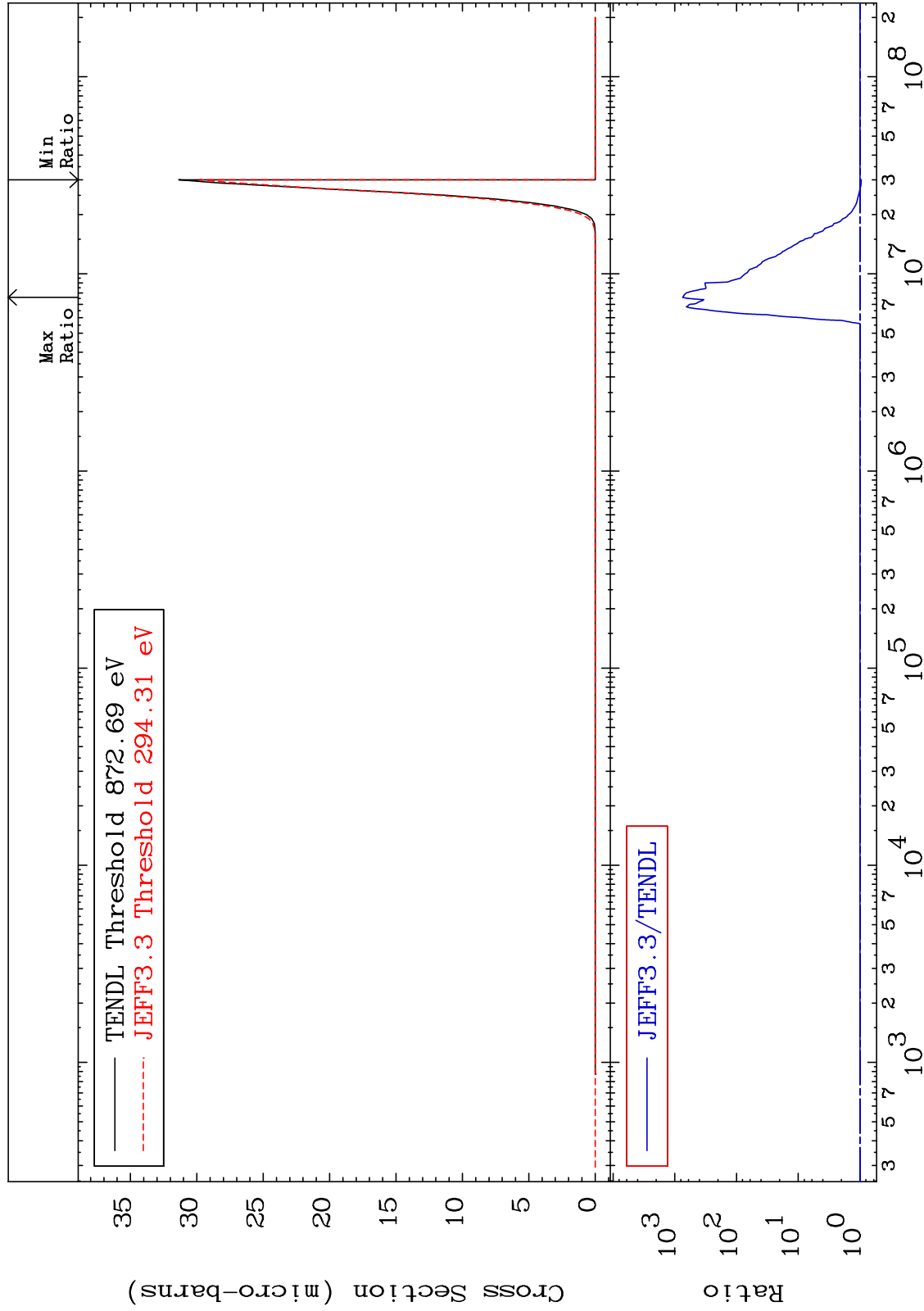
MAT 4519

(n,2α)

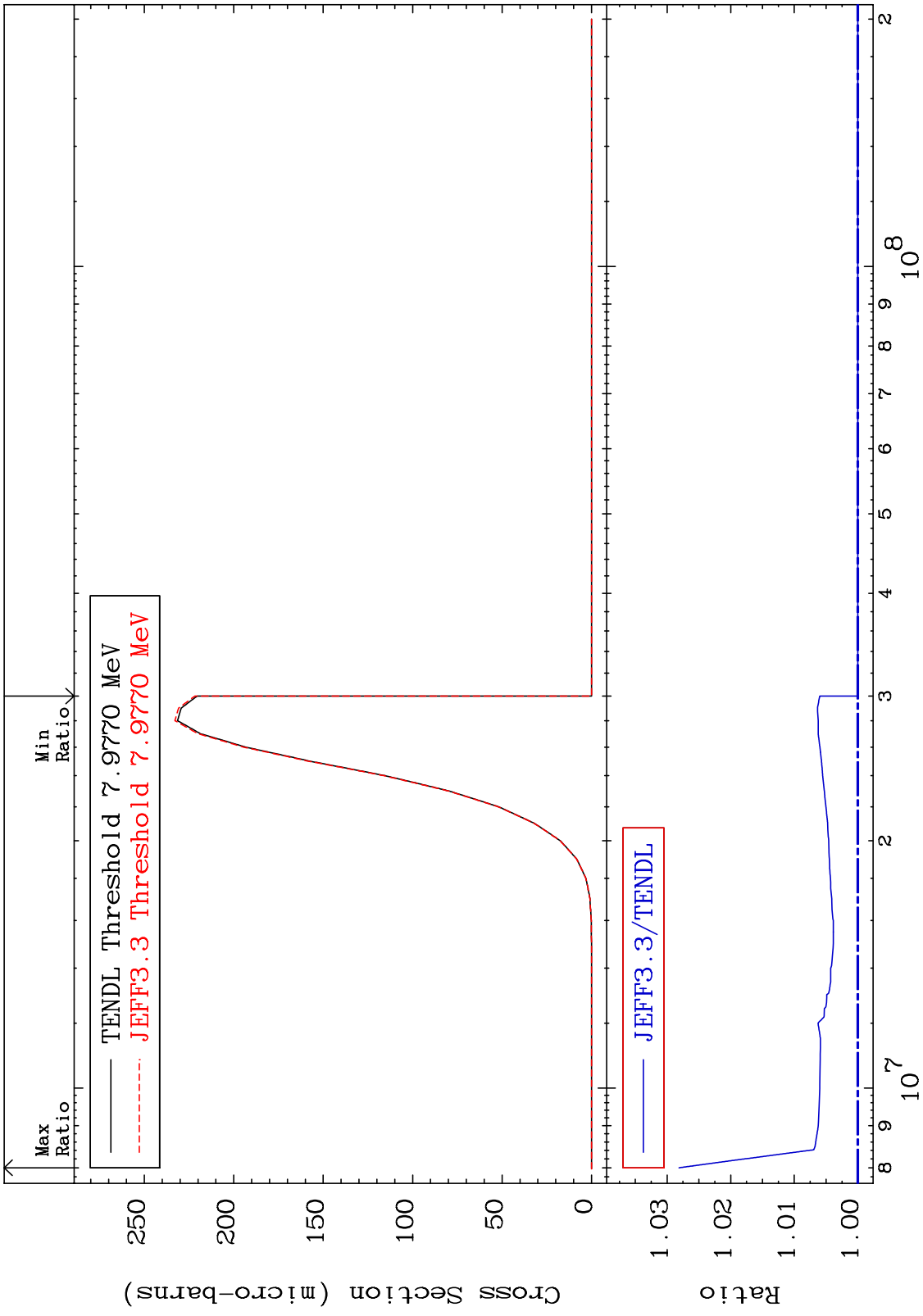
45-Rh-101

Cross Section

-5.000 To 9999. %



MAT 4519 (n,2p) Cross Section 45-Rh-101 To 2.813 %



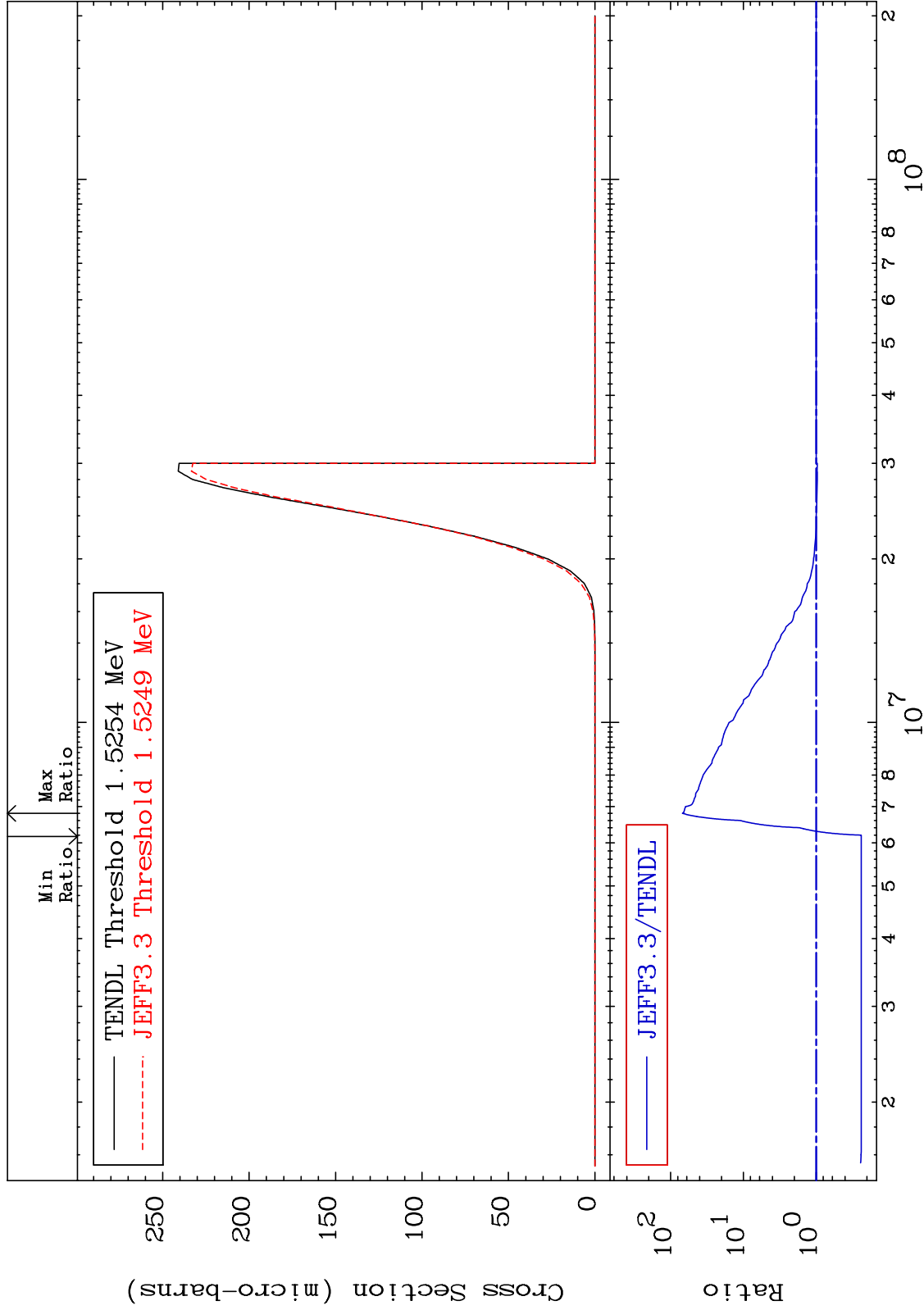
MAT 4519

(n,p) α

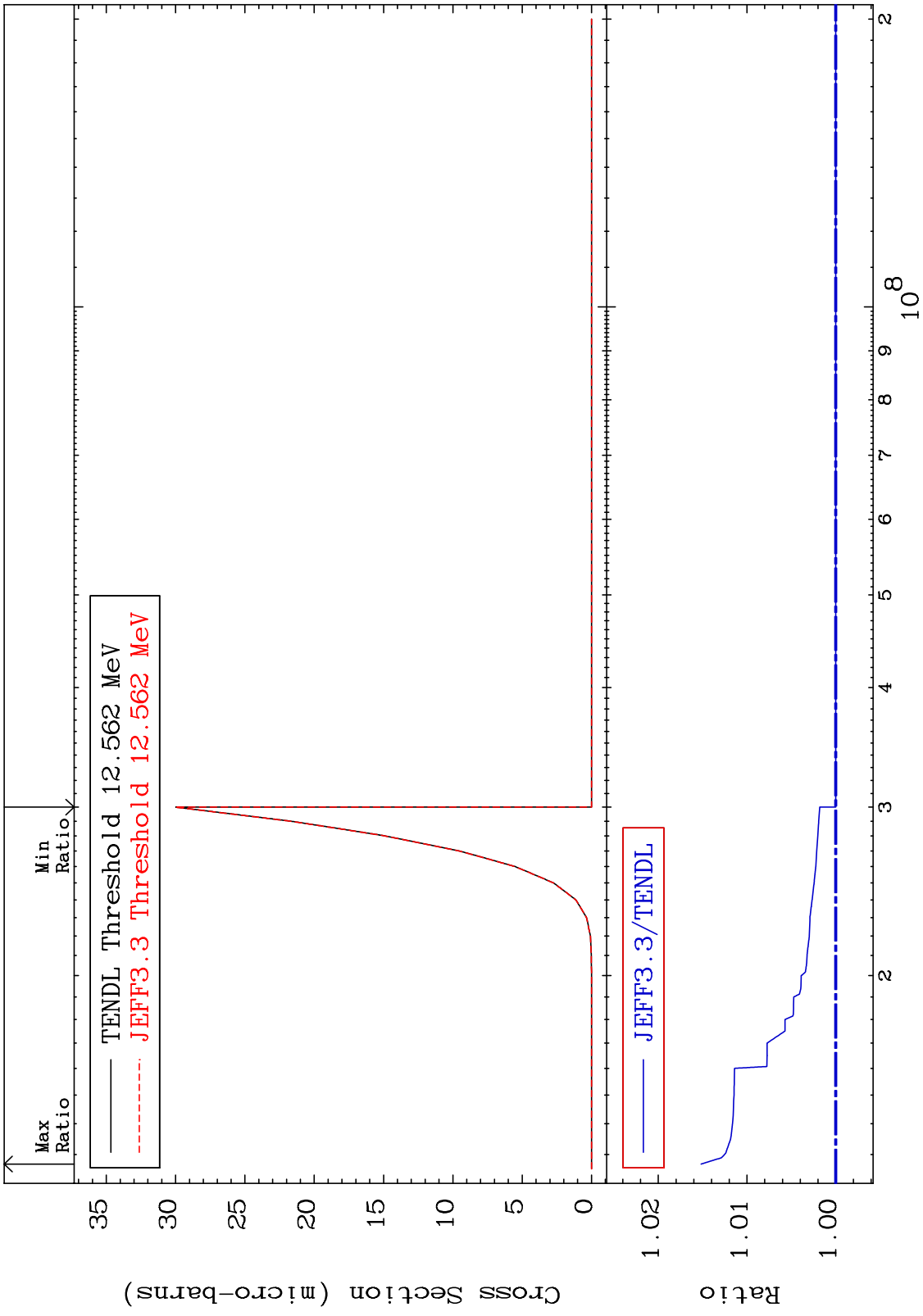
45-Rh-101

-76.02 To 6785. %

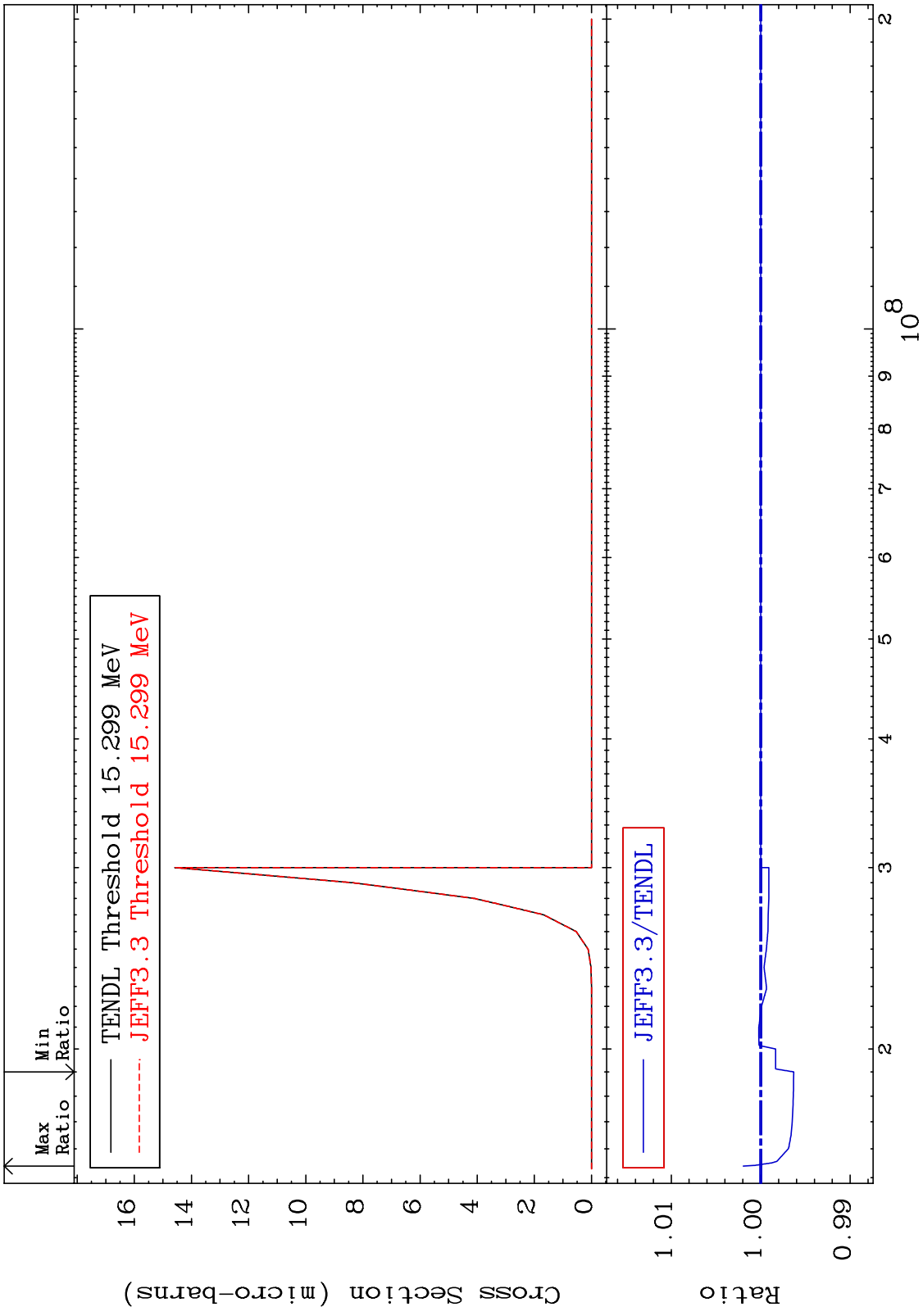
Cross Section



MAT 4519 (n,p) d 45-Rh-101
 Cross Section 0.000 To 1.517 %



MAT 4519 (n,p) t 45-Rh-101
 Cross Section -0.369 To 0.196 %



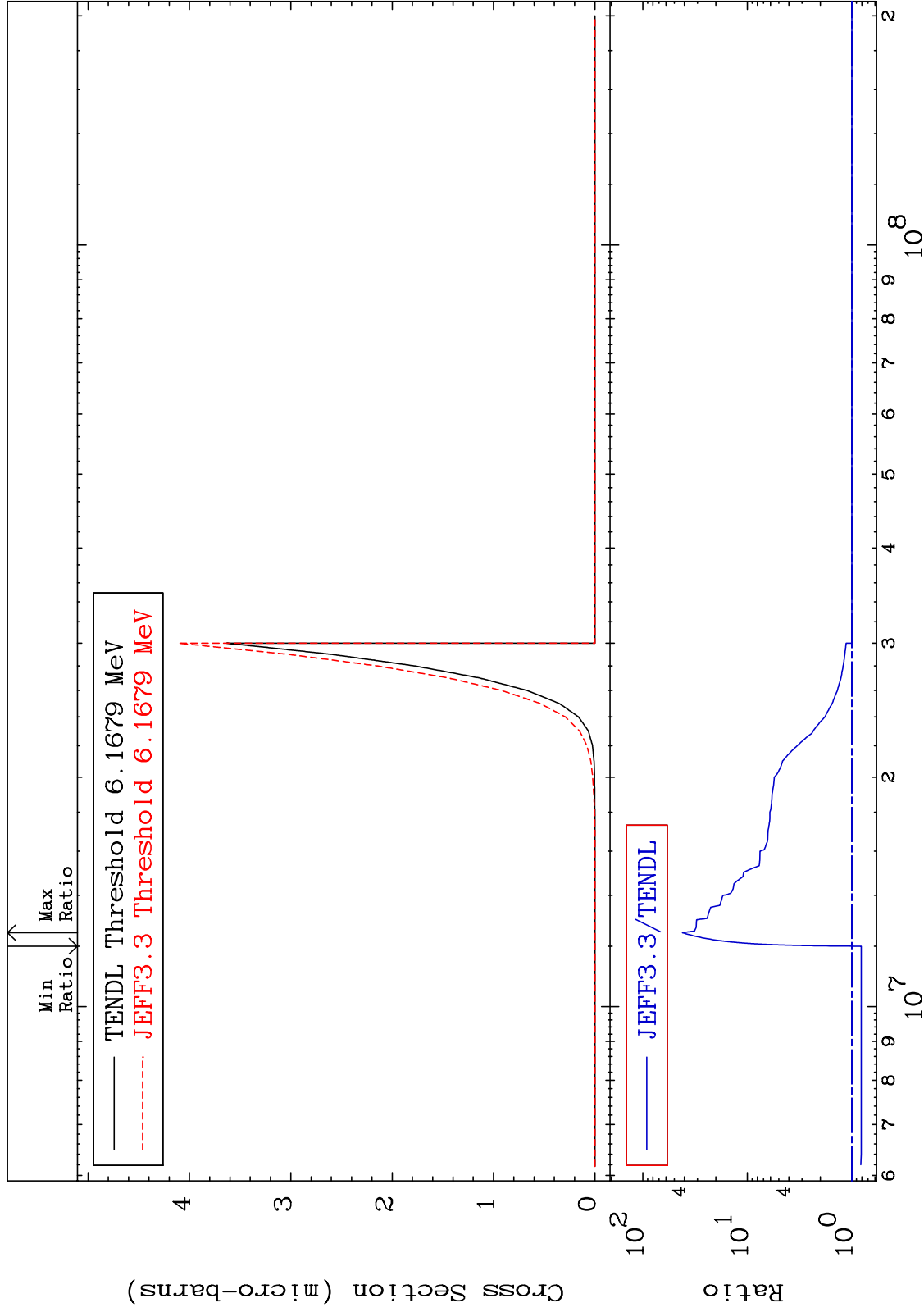
MAT 4519

(n,d) α

45-Rh-101

-18.98 To 4071. %

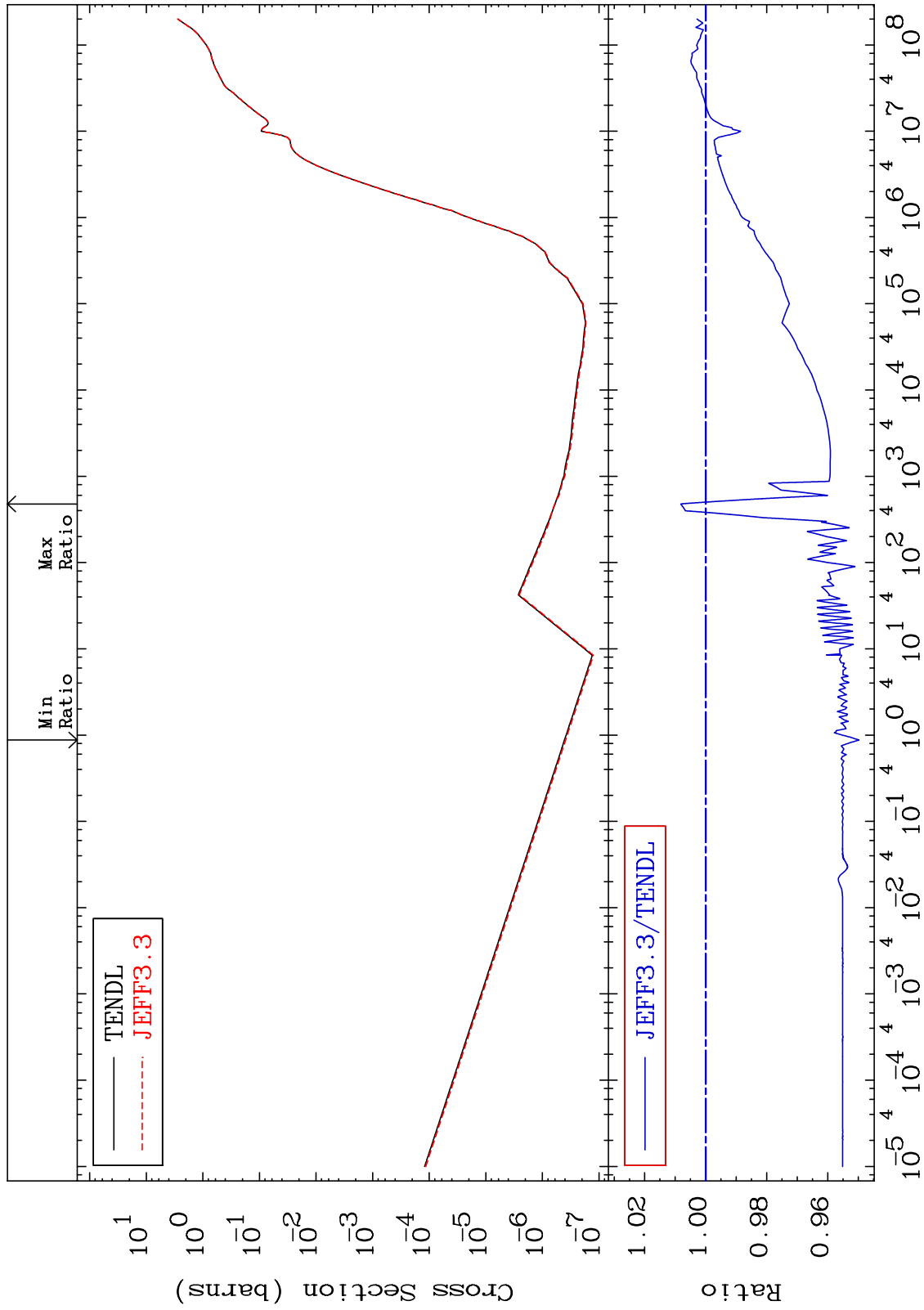
Cross Section



MAT 4519

Hydrogen Production
Cross Section

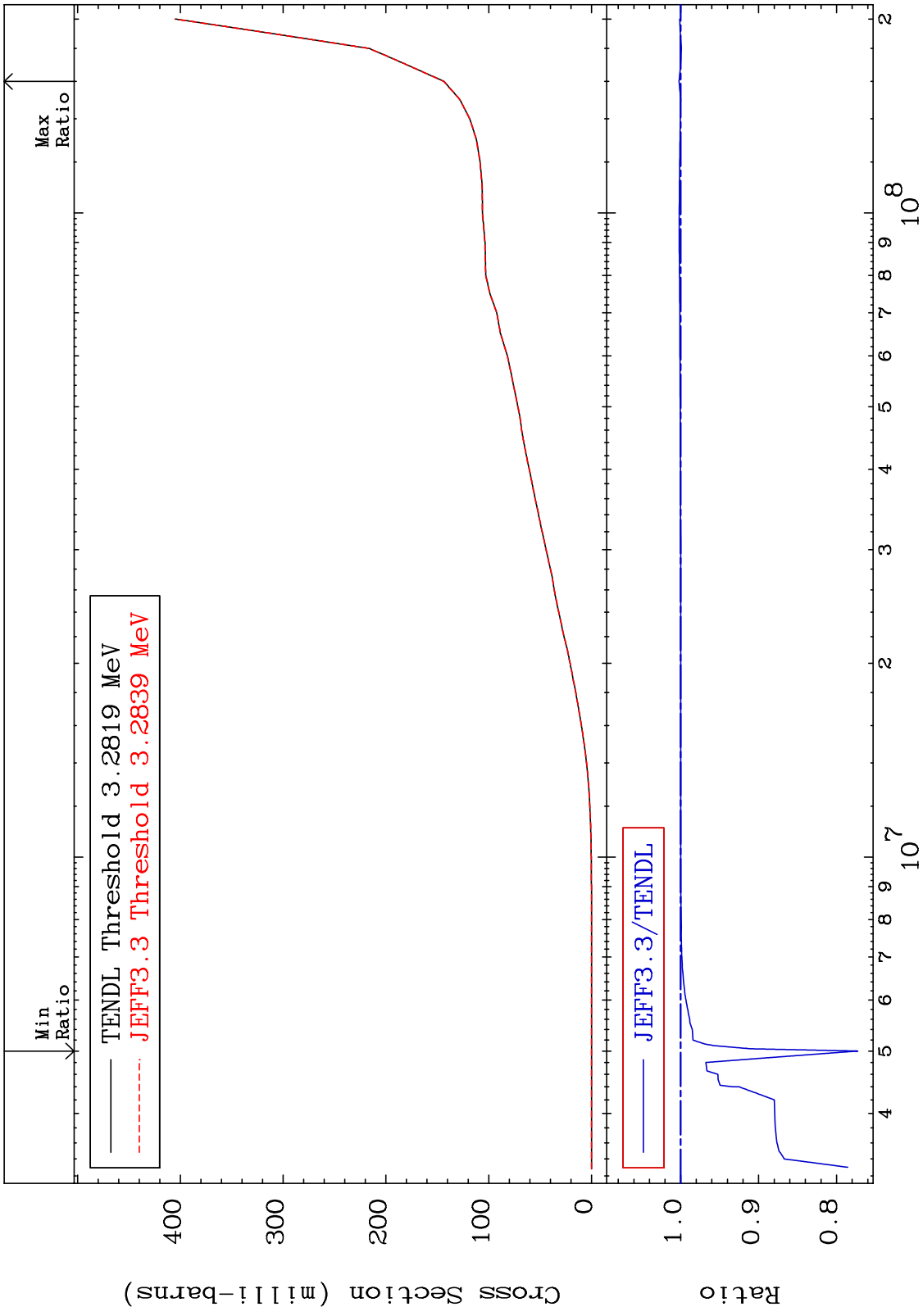
45-Rh-101
-5.026 To 0.822 %



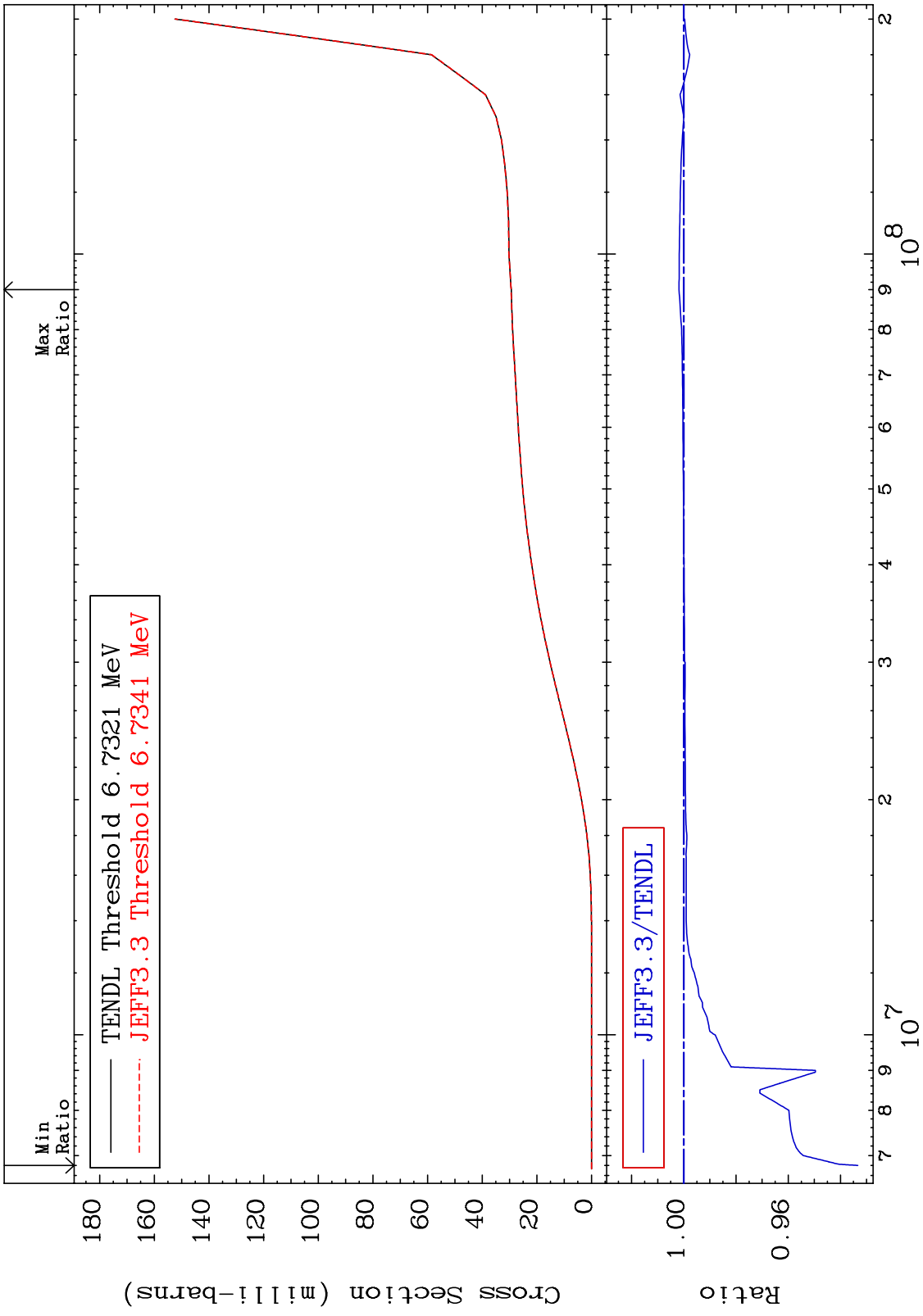
63

Incident Energy (eV)

45-Rh-101

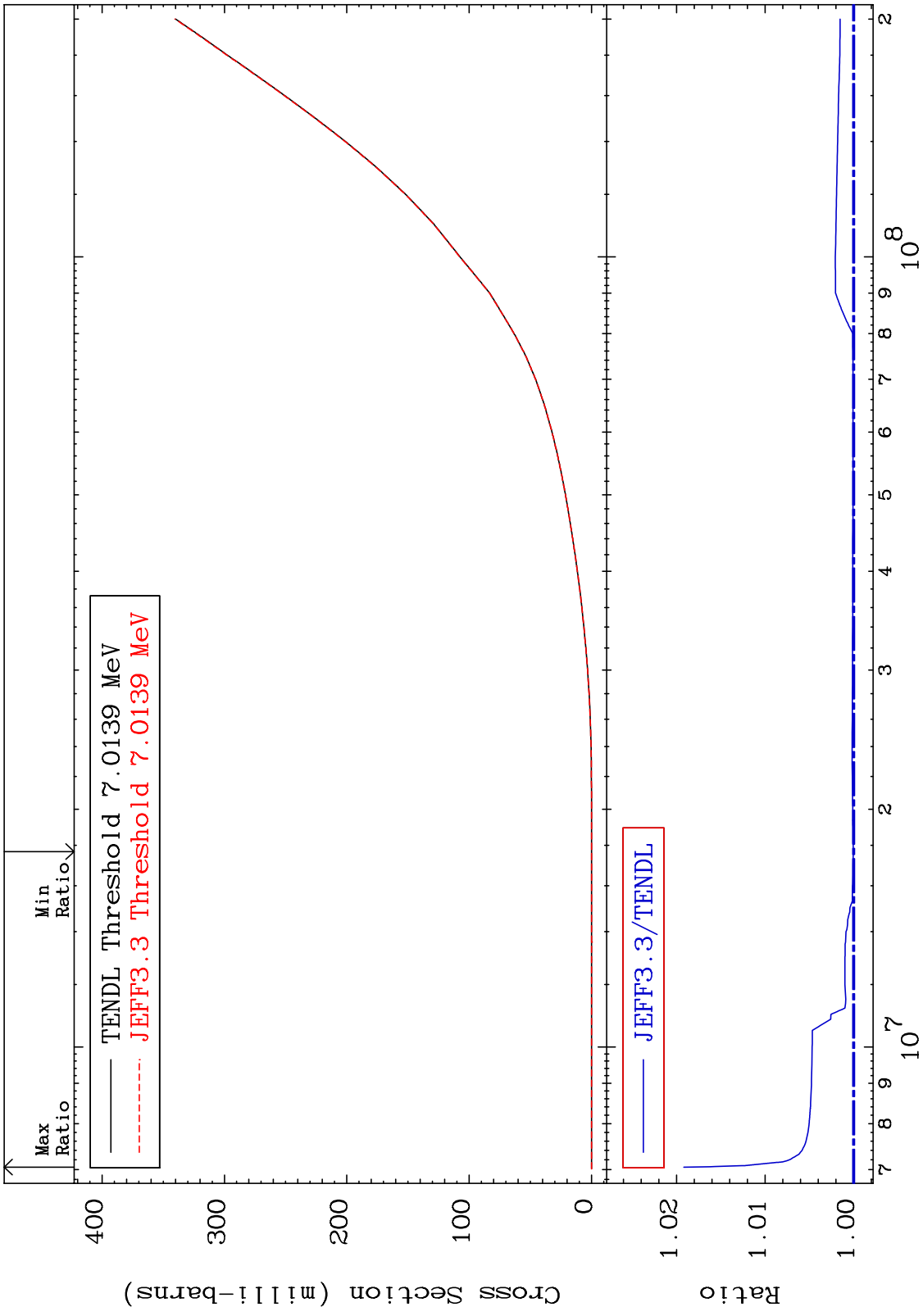


MAT 4519 Tritium Production Cross Section 45-Rh-101 -6.665 To 0.181 %

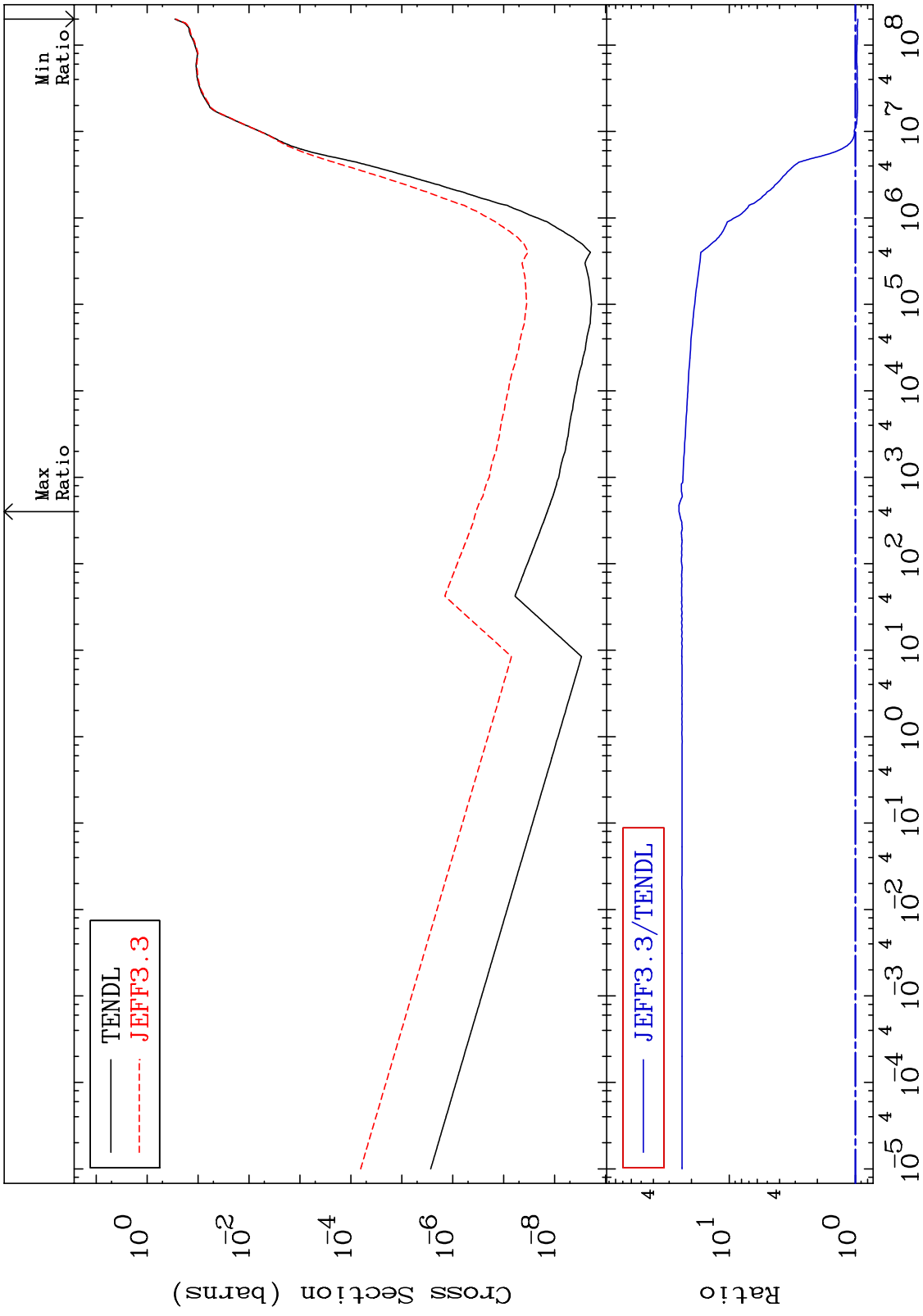


65 45-Rh-101

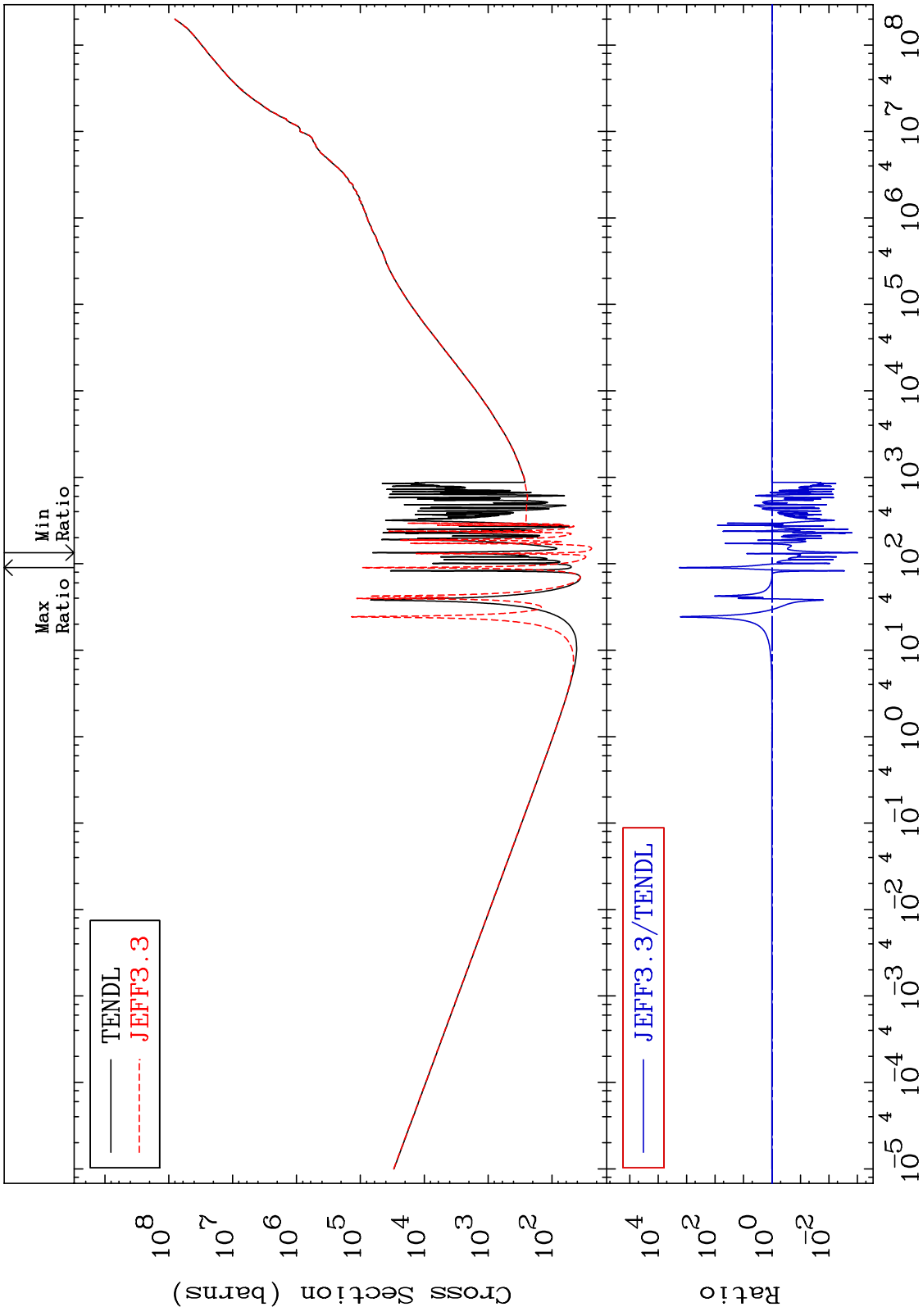
MAT 4519 He-3 Production Cross Section 45-Rh-101 To 1.919 %



MAT 4519 He-4 Production Cross Section 45-Rh-101
 -4.449 To 2407. %



MAT 4519 Kerma total (eV-barns) 45-Rh-101
 Cross Section -99.90 To 9999. %

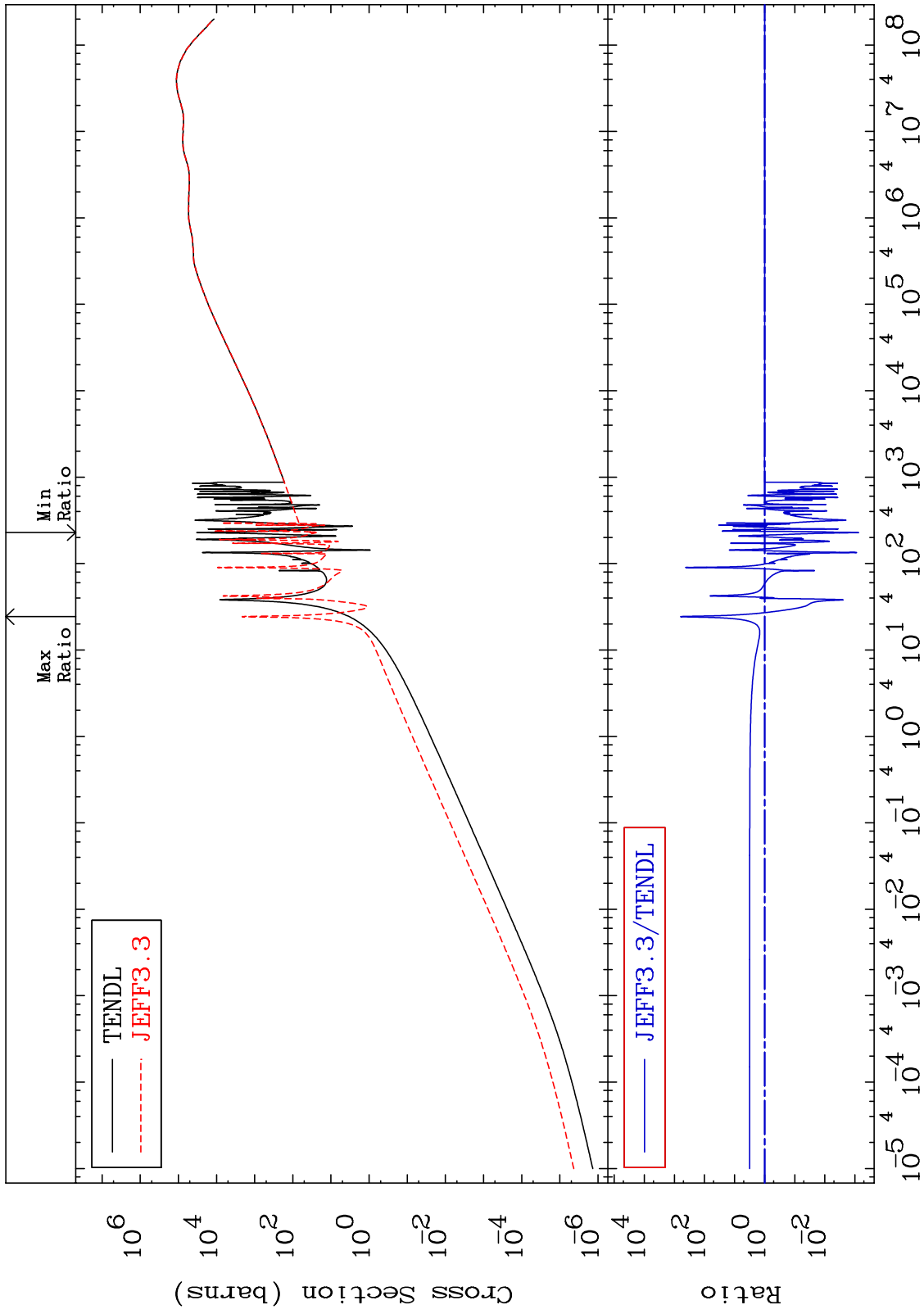


68 Incident Energy (eV) 45-Rh-101

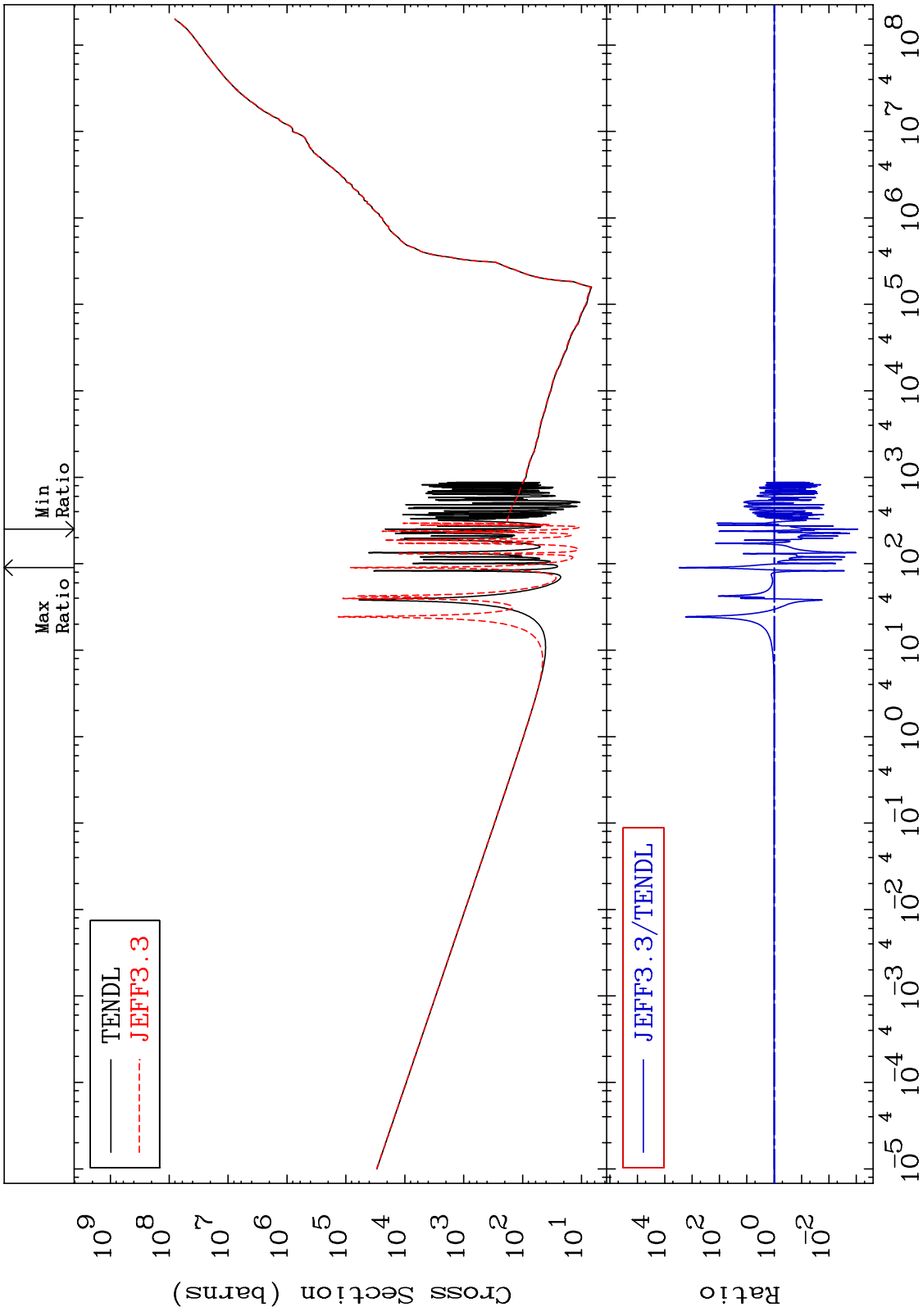
MAT 4519

Kerma elastic
Cross Section

45-Rh-101
-99.93 To 9999. %

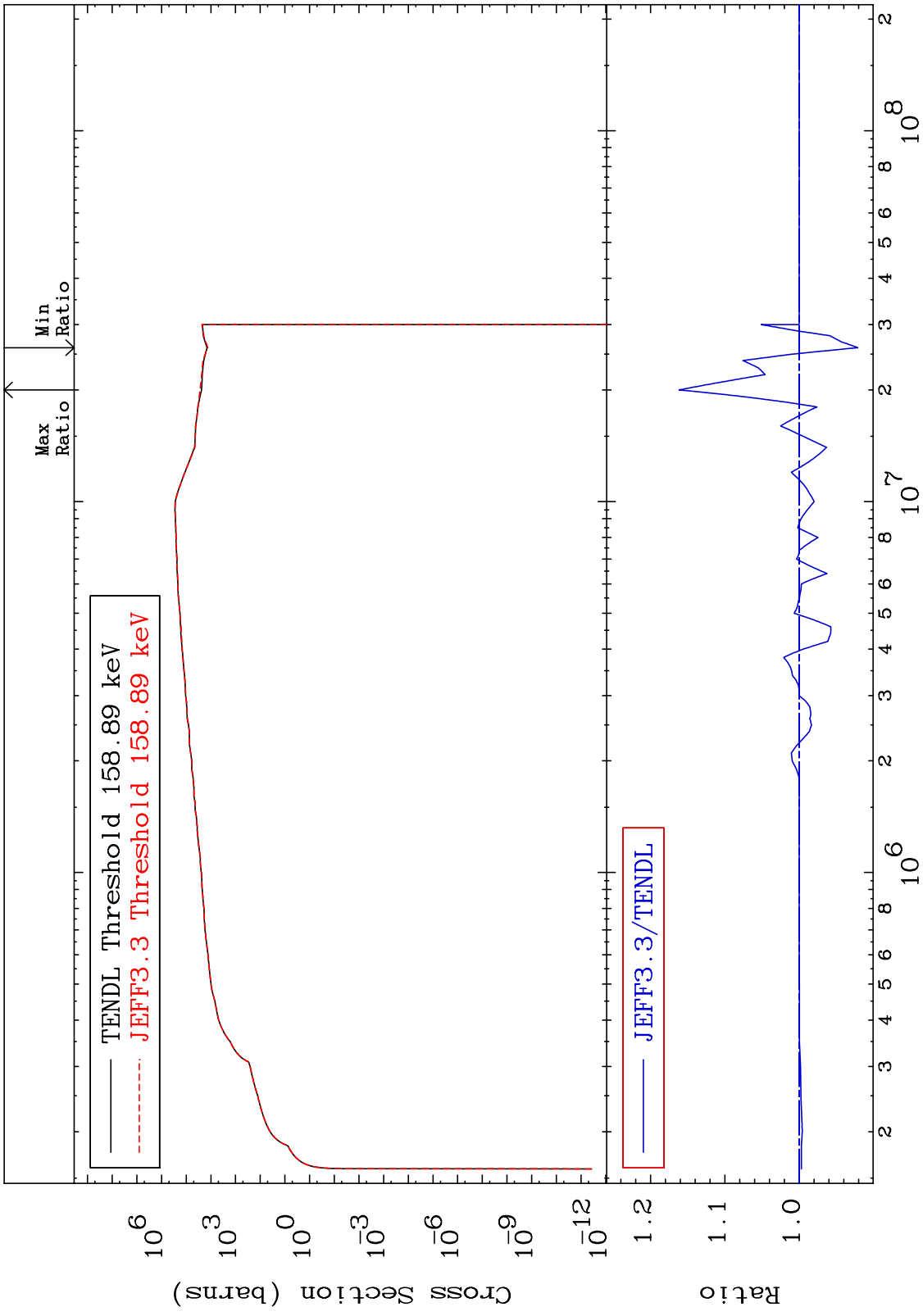


MAT 4519 Kerma non-elastic (all but mt2) 45-Rh-101
 -99.91 To 9999. %
 Cross Section



70 Incident Energy (eV) 45-Rh-101

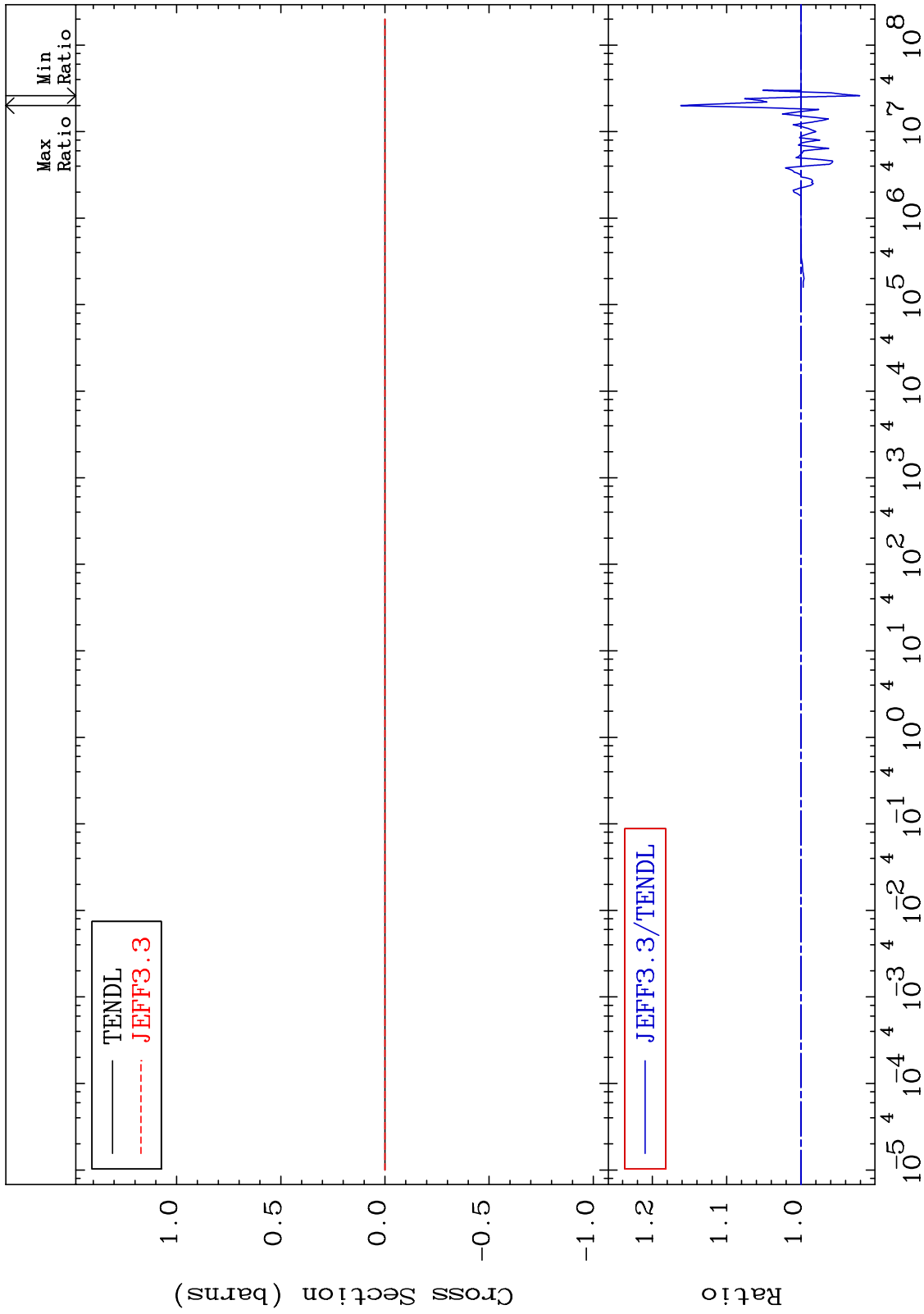
MAT 4519 Kerma inelastic (mt51-91) 45-Rh-101
 -7.903 To 16.16 %
 Cross Section



MAT 4519

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

45-Rh-101
-7.903 To 16.16 %



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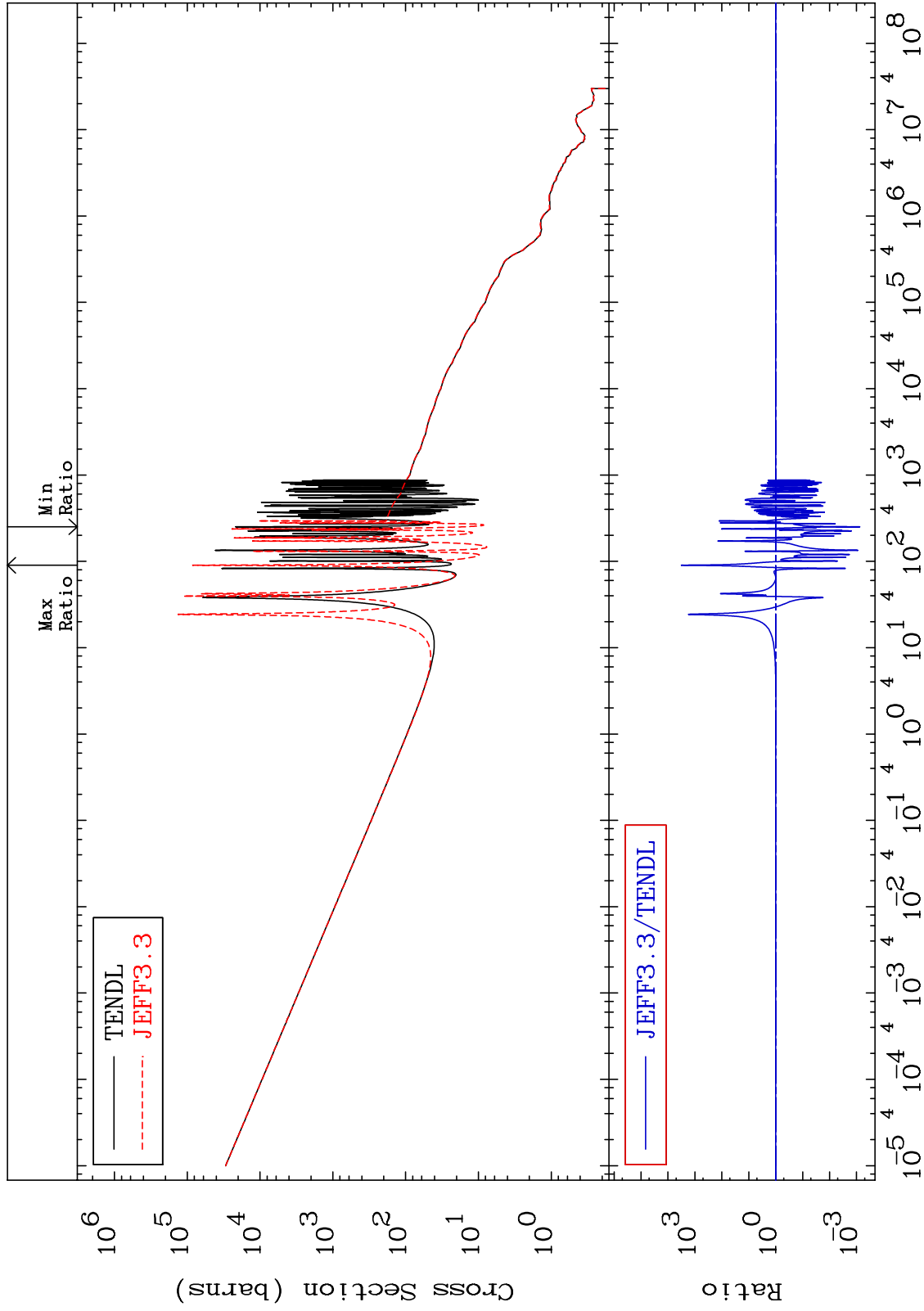
Incident Energy (eV)

45-Rh-101

MAT 4519

Kerma capture (mt102)
Cross Section

45-Rh-101
-99.92 To 9999. %

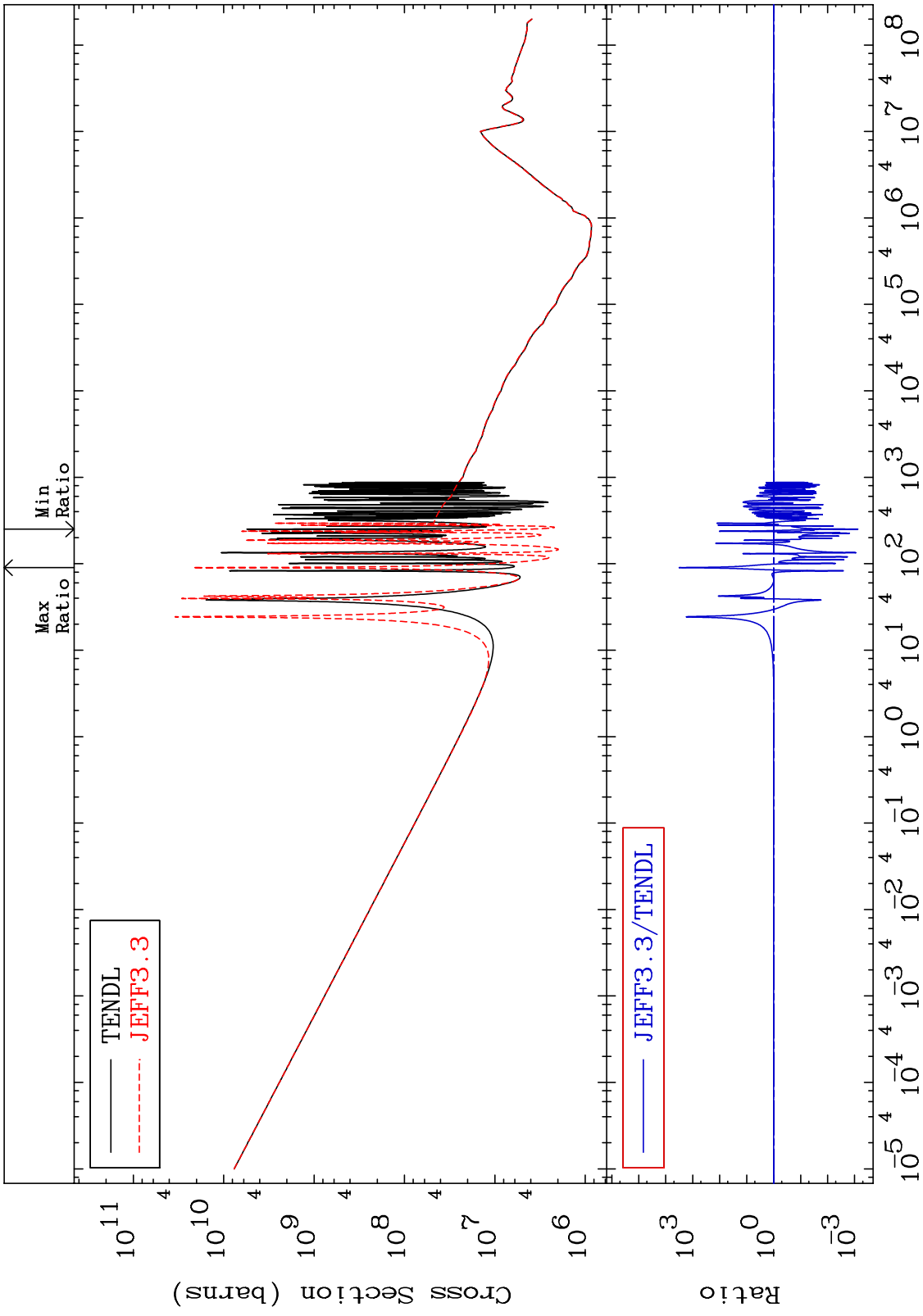


73

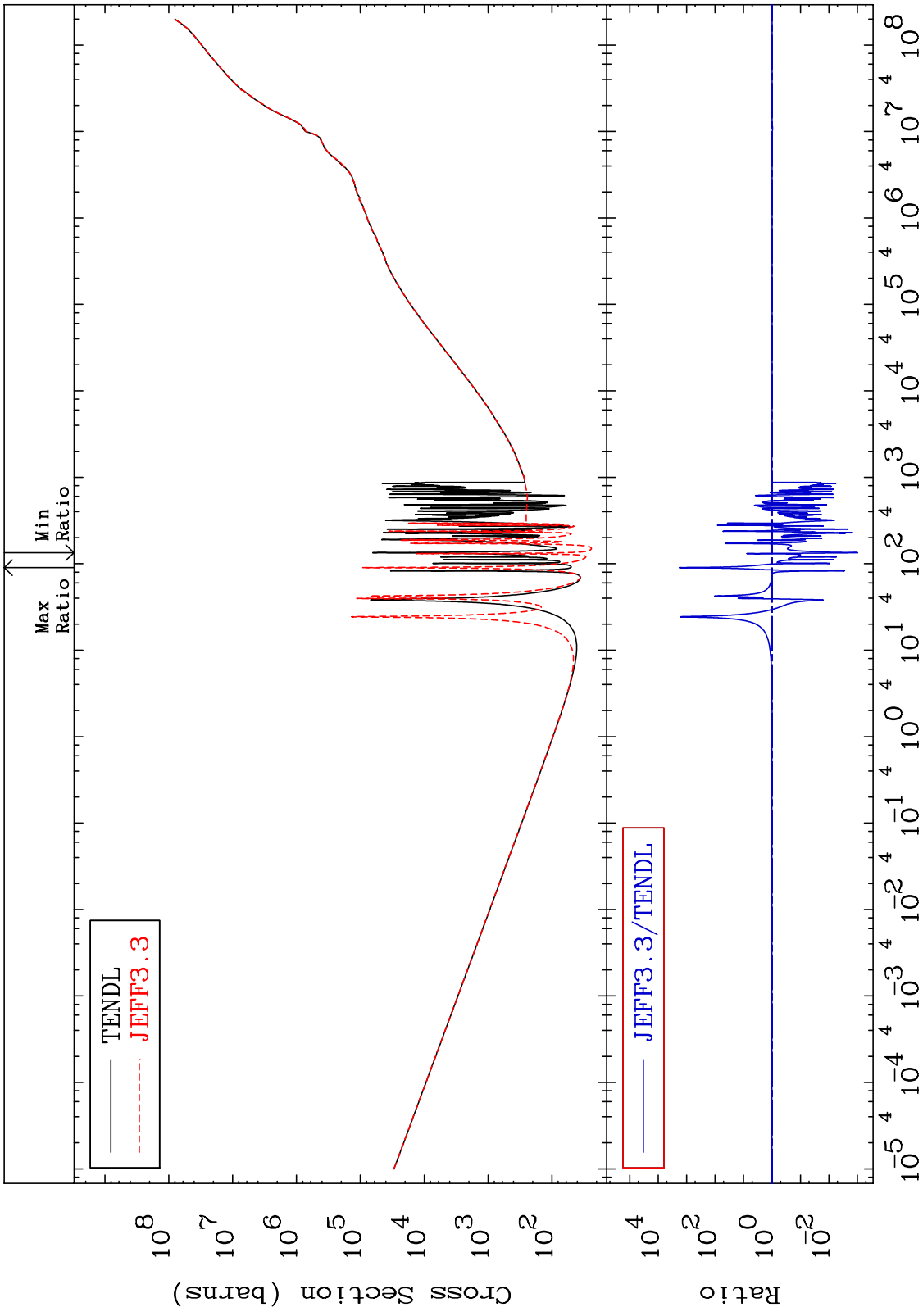
Incident Energy (eV)

45-Rh-101

MAT 4519 45-Rh-101
 Total photon (eV-barns) Cross Section
 -99.92 To 9999. %



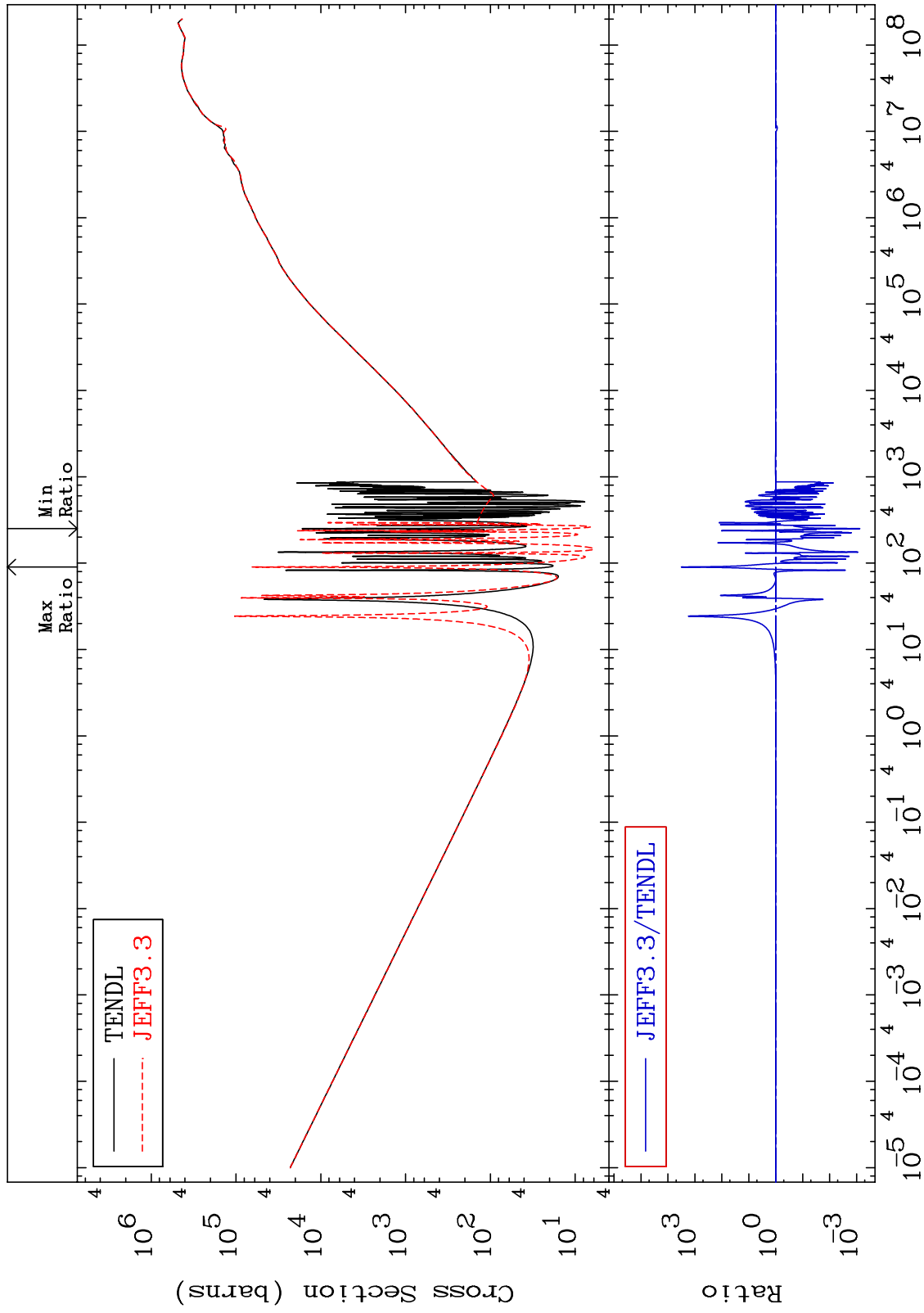
MAT 4519 Total kinematic kerma (high limit) 45-Rh-101
Cross Section -99.90 To 9999. %



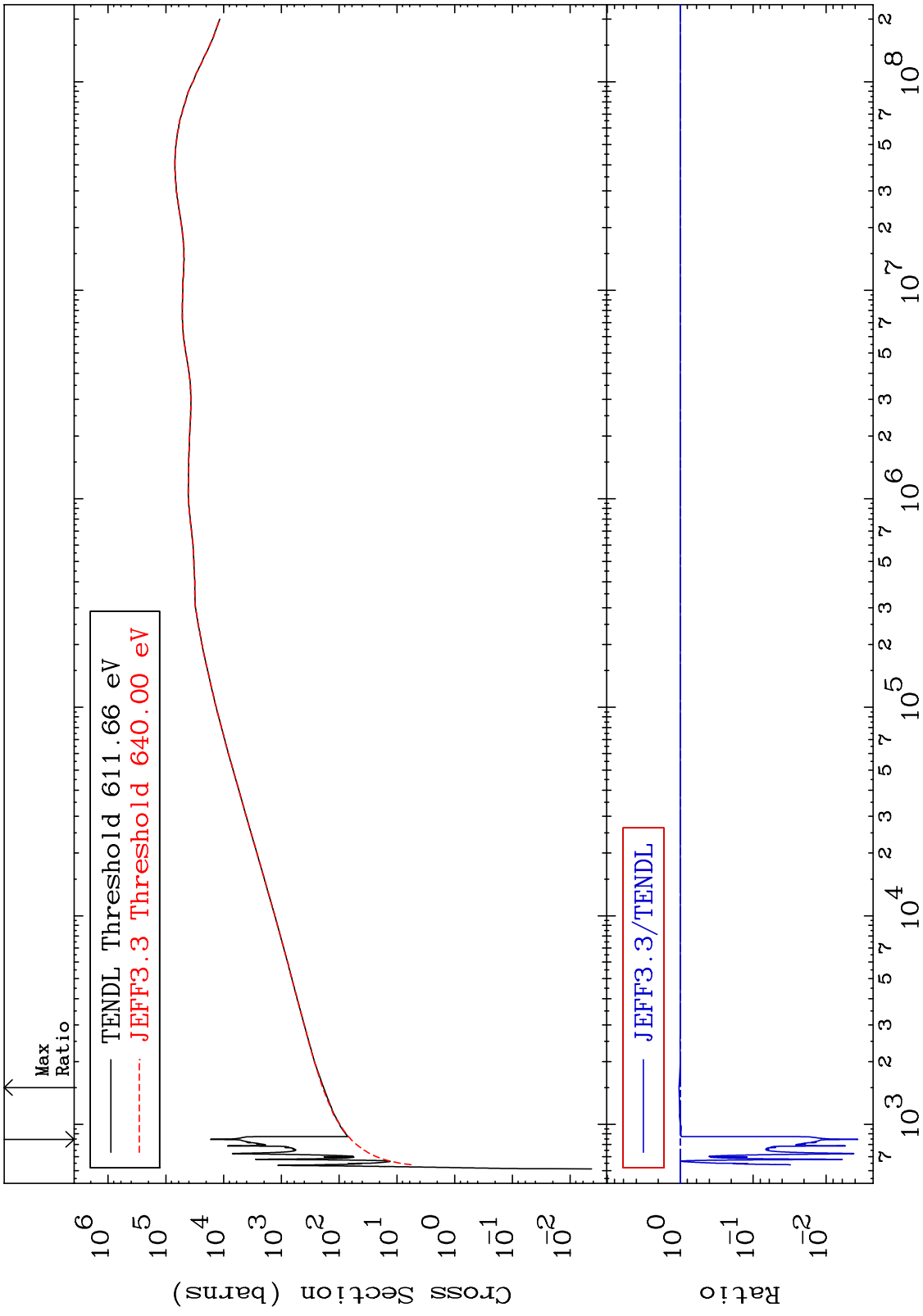
MAT 4519

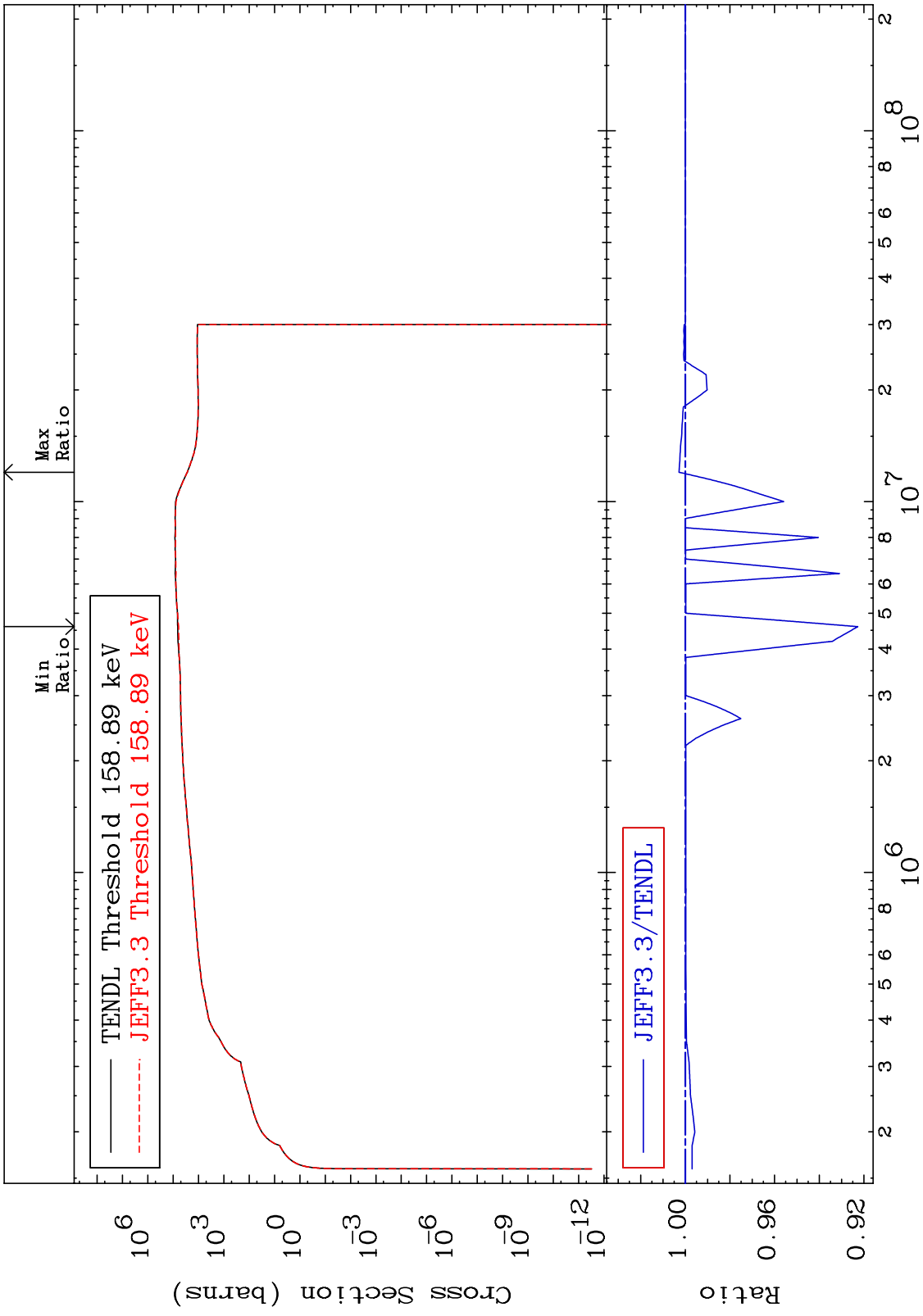
Dpa total (eV-barns)
Cross Section

45-Rh-101
-99.92 To 9999. %



MAT 4519 Dpa elastic (mt2) 45-Rh-101
 Cross Section -99.63 To 3.912 %

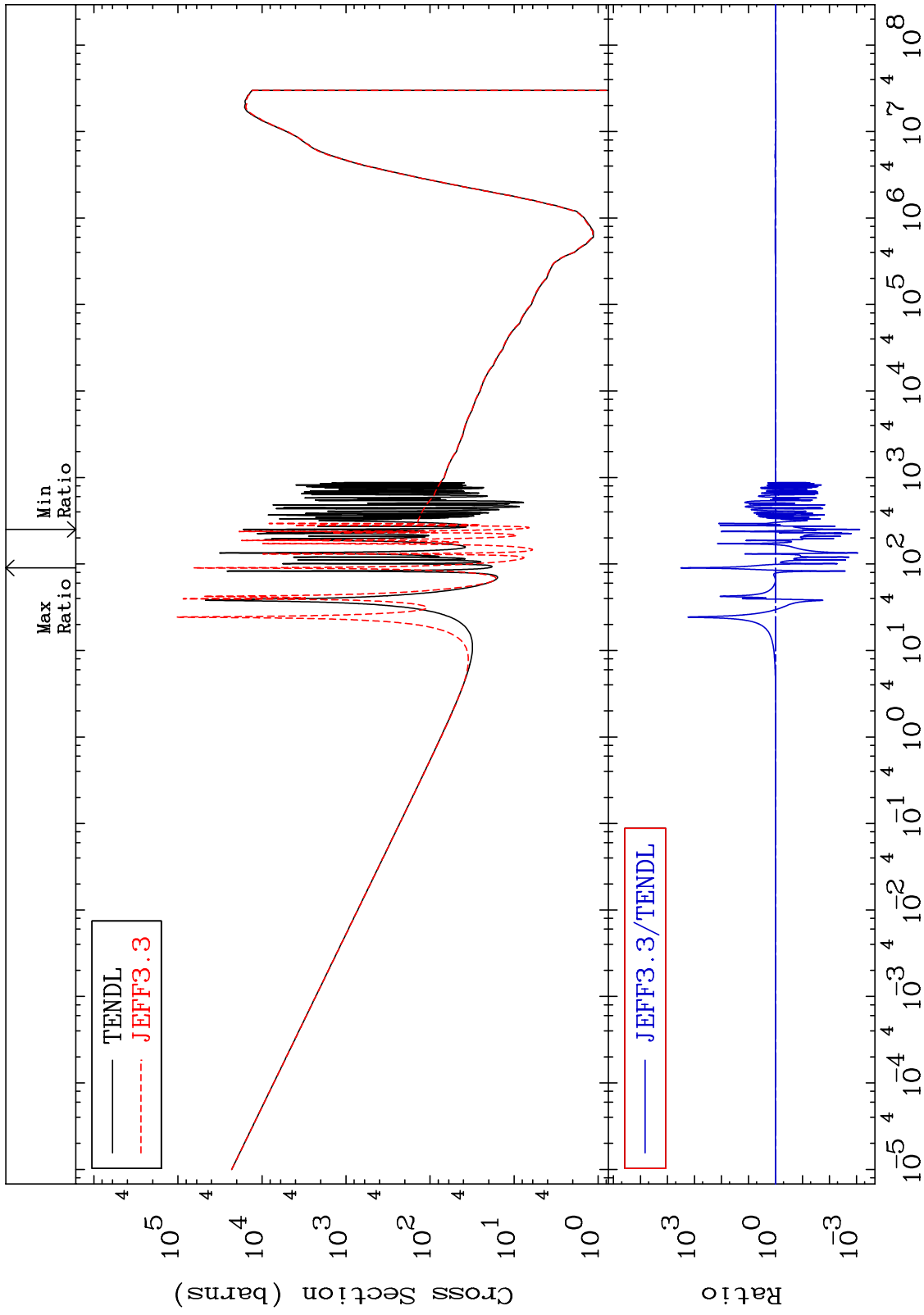




MAT 4519

Dpa disappearance (mt102 -120)
Cross Section

45-Rh-101
-99.92 To 9999. %

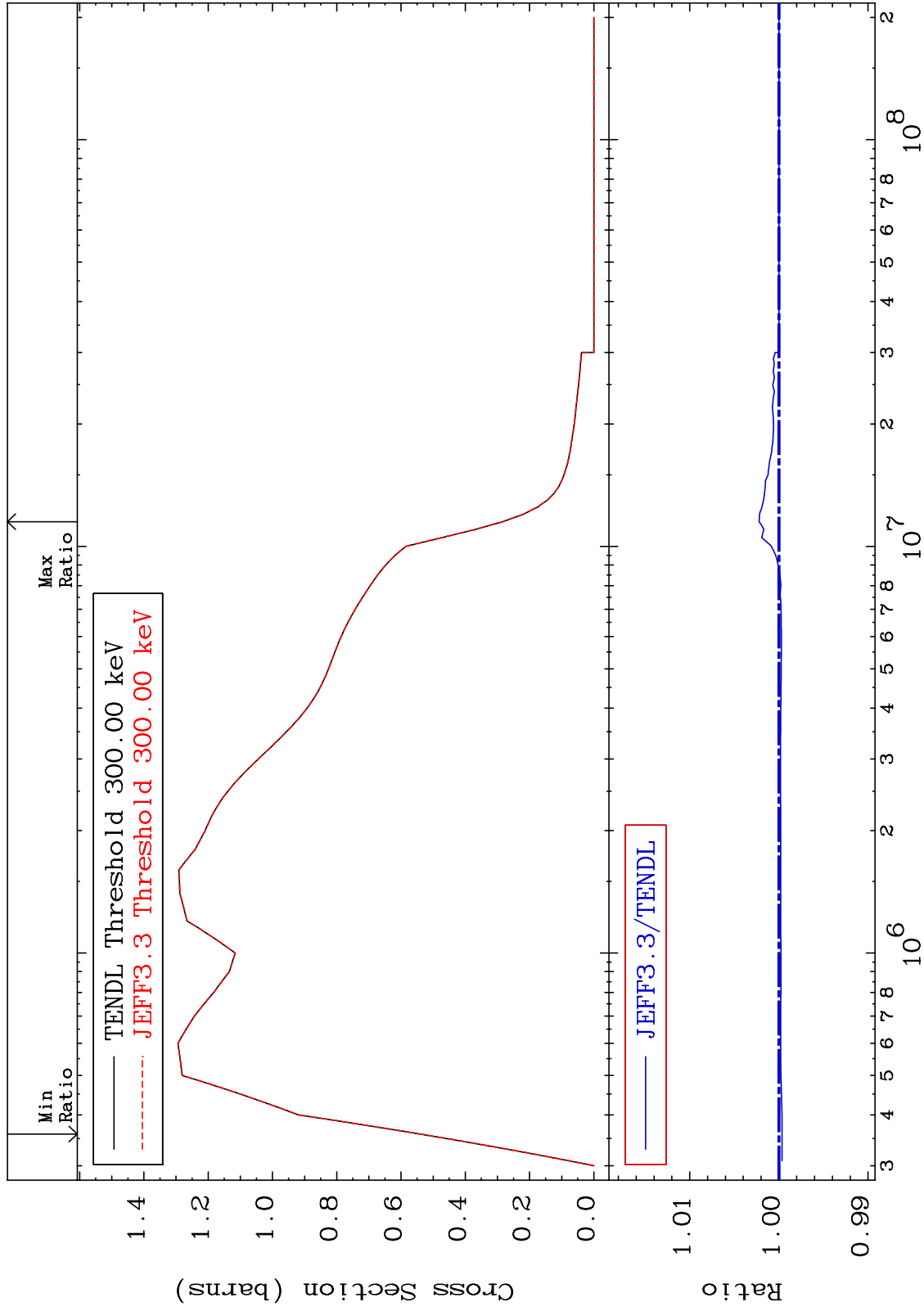


MAT 4519

Inelastic: 45-Rh-101g

45-Rh-101

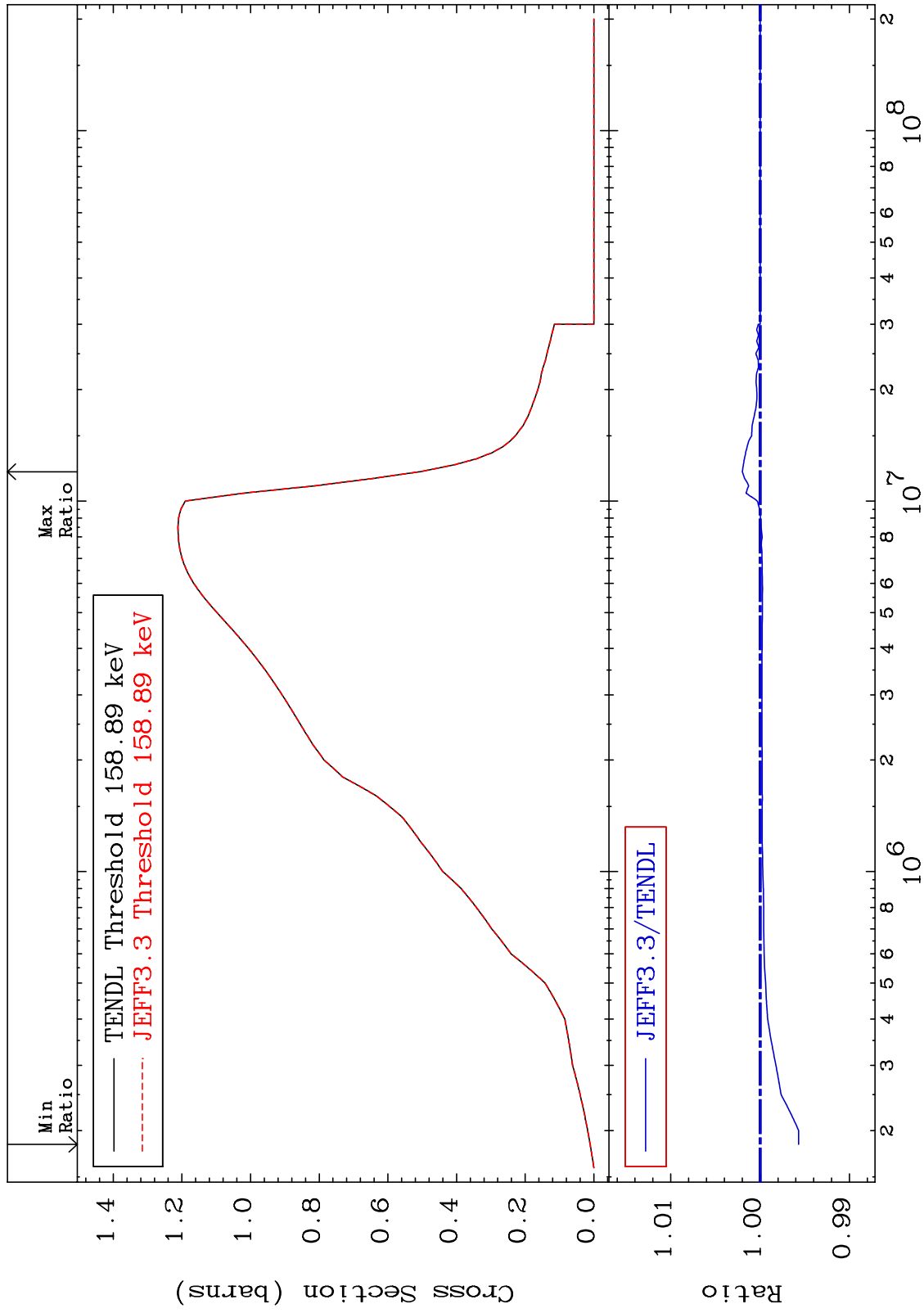
Radionuclide Production Cross Section -0.034 To 0.222 %



MAT 4519

Inelastic: 45-Rh-101m1
Radionuclide Production Cross Section -0.432 To 0.199 %

45-Rh-101

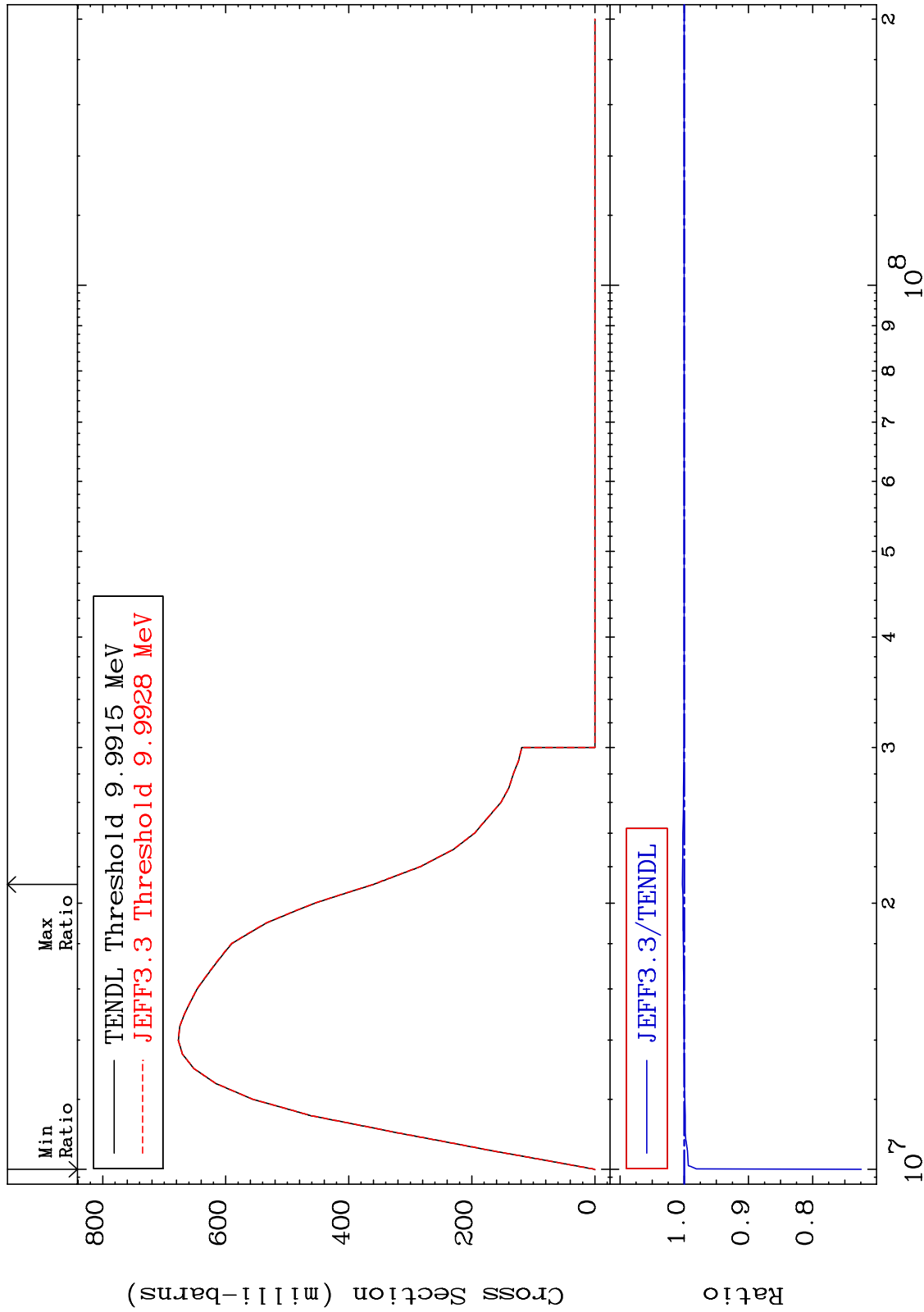


MAT 4519

(n,2n) : 45-Rh-100g

45-Rh-101

Radionuclide Production Cross Section -27.58 To 0.279 %

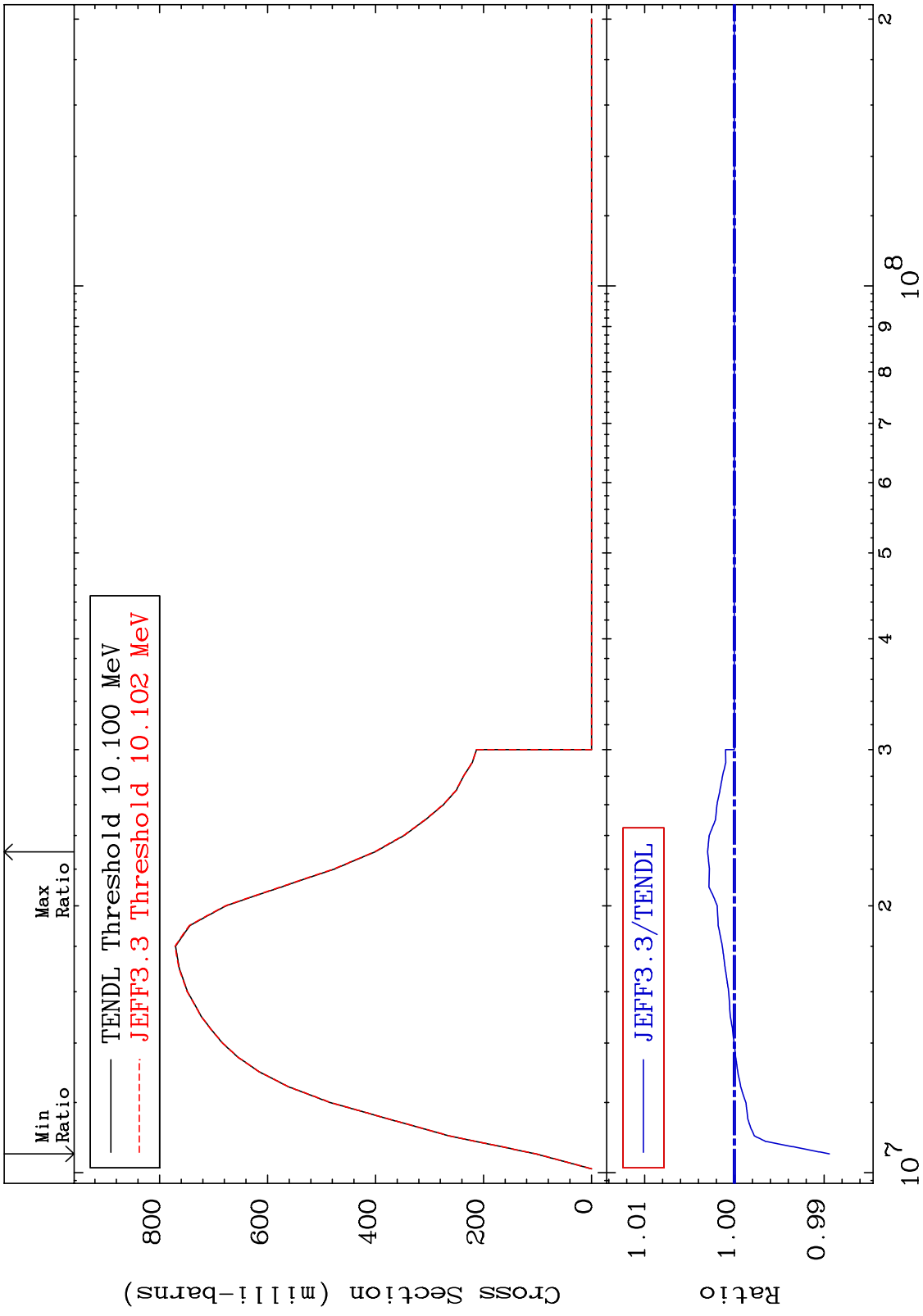


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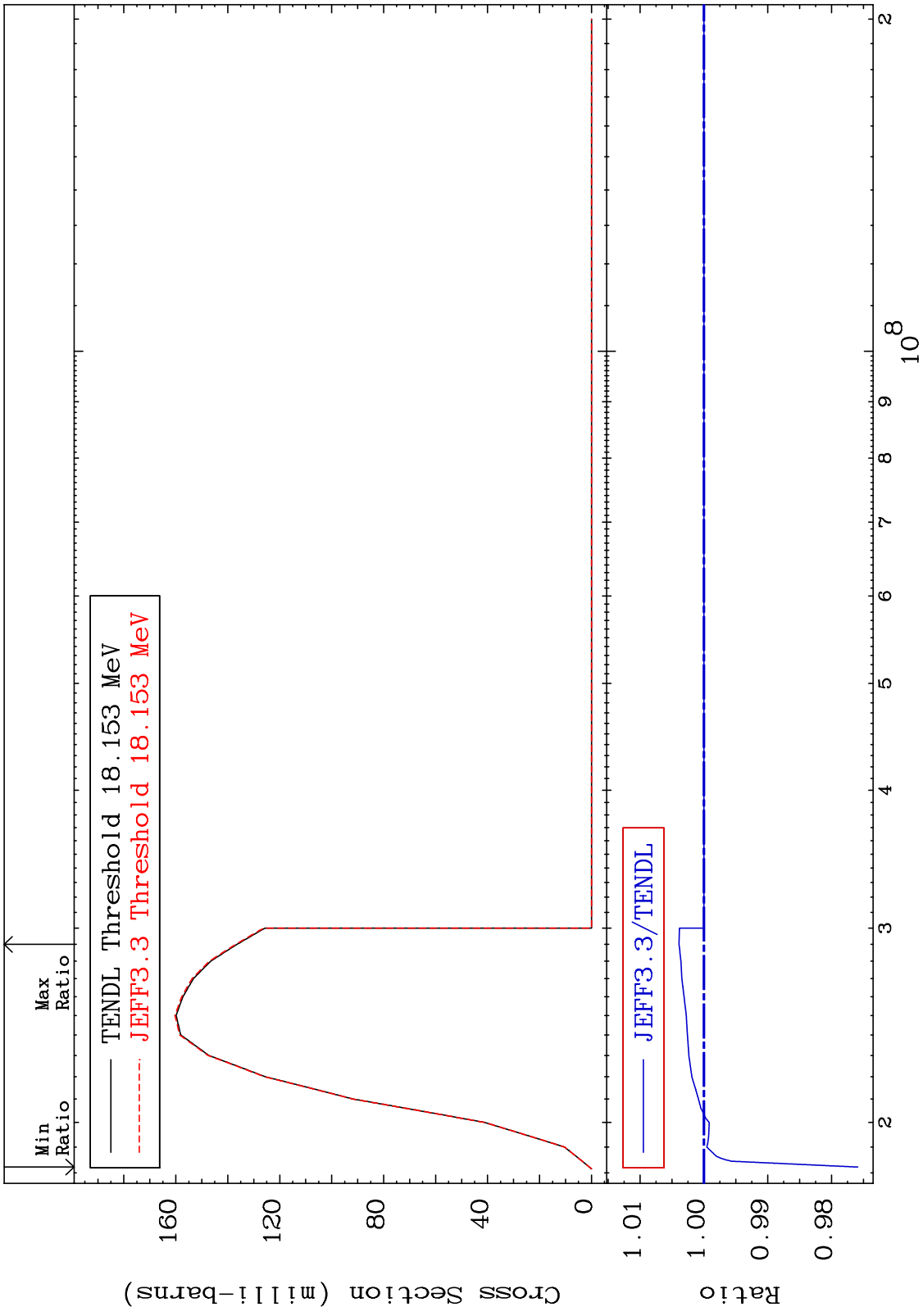
Incident Energy (eV)

45-Rh-101

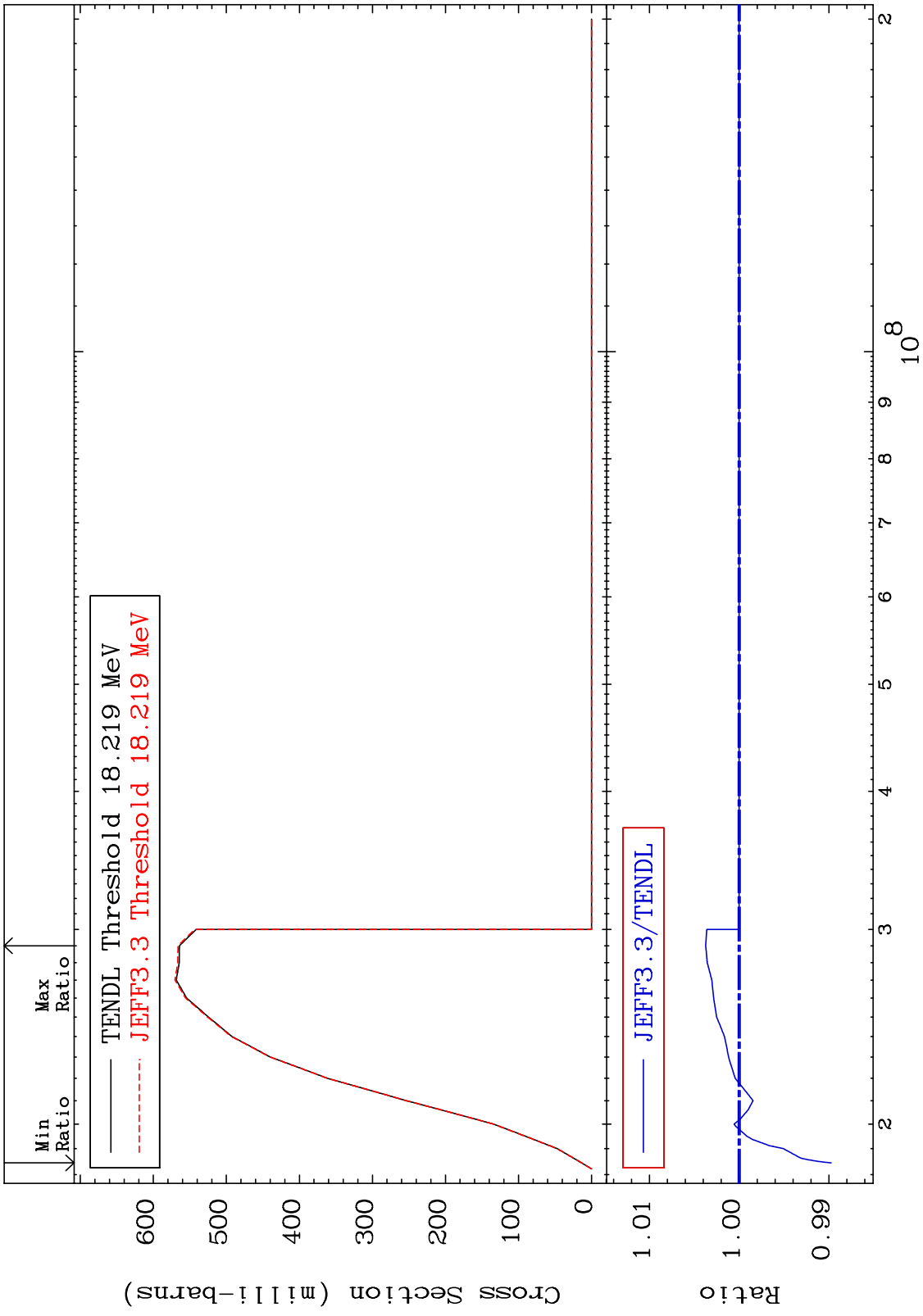
MAT 4519 (n,2n) : 45-Rh-100m4 45-Rh-101
 Radionuclide Production Cross Section -1.058 To 0.299 %



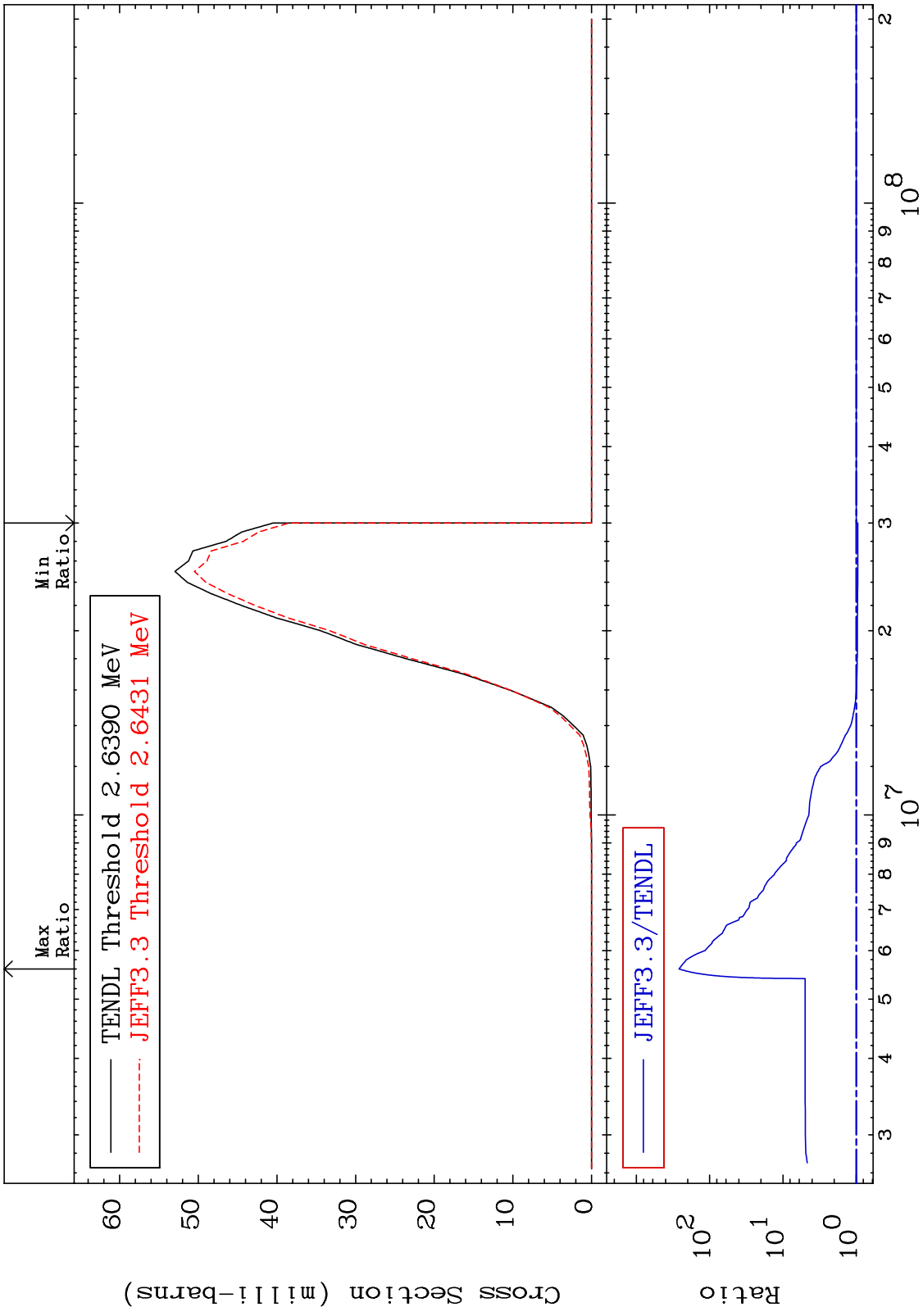
MAT 4519 (n,3n) : 45-Rh-99g 45-Rh-101
 Radionuclide Production Cross Section -2.413 To 0.389 %



MAT 4519 (n,3n):45-Rh-99m1 45-Rh-101
 Radionuclide Production Cross Section -1.026 To 0.373 %



MAT 4519 (n, n') α : 43-Tc-97g 45-Rh-101
 Radionuclide Production Cross Section -4.974 To 9999. %

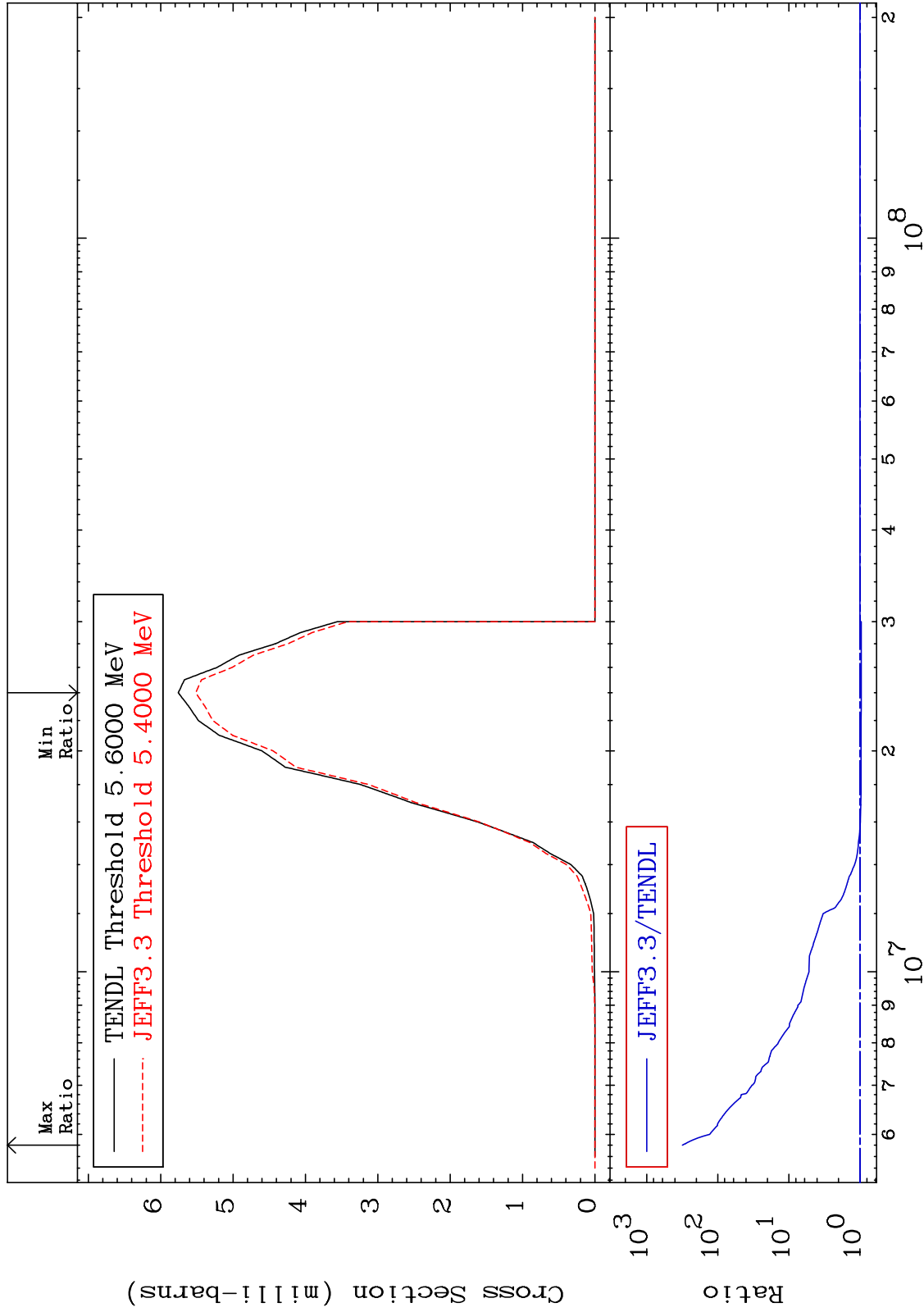


MAT 4519

(n, n') α : 43-Tc-97m1

45-Rh-101

Radionuclide Production Cross Section -4.191 To 9999. %

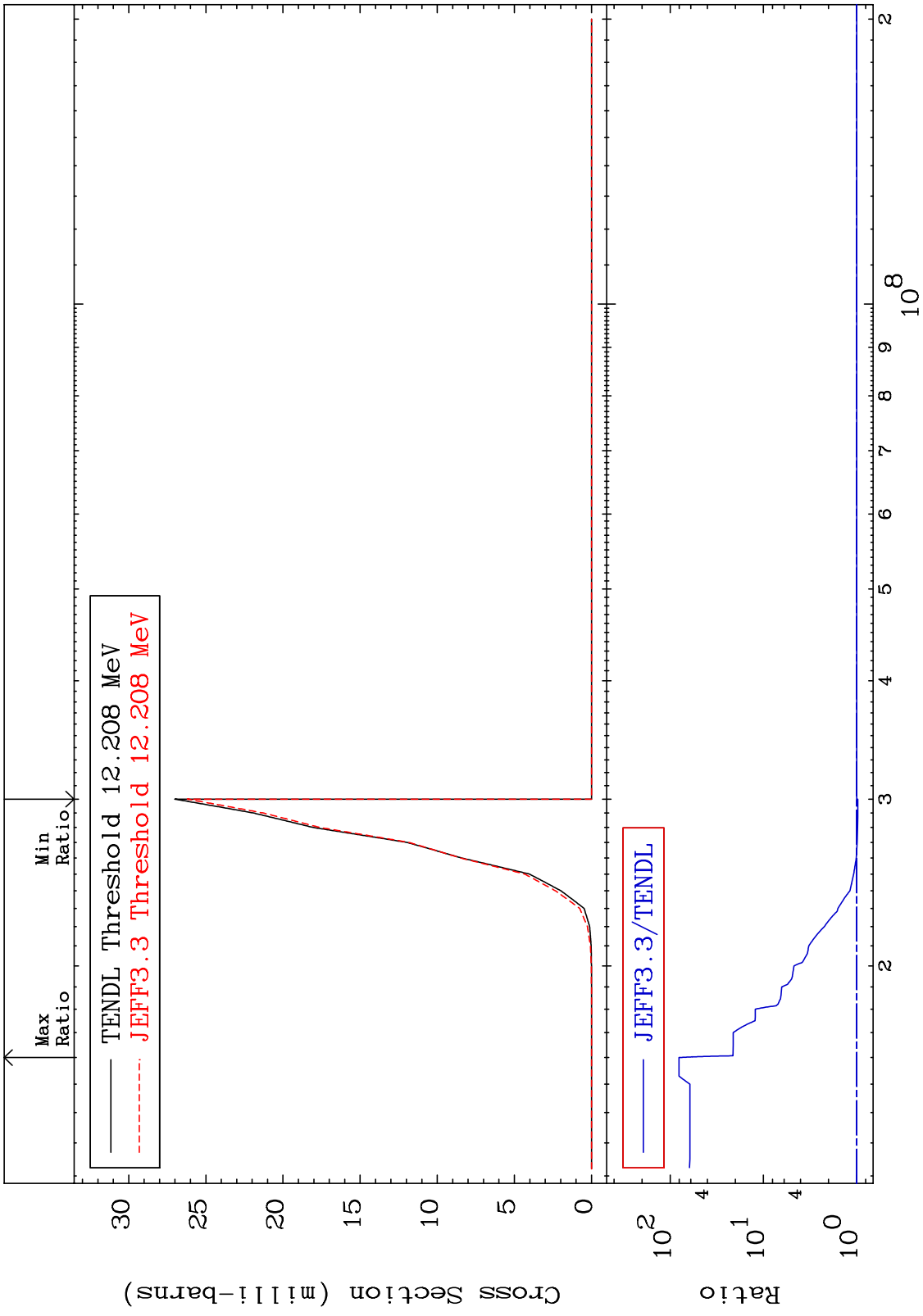


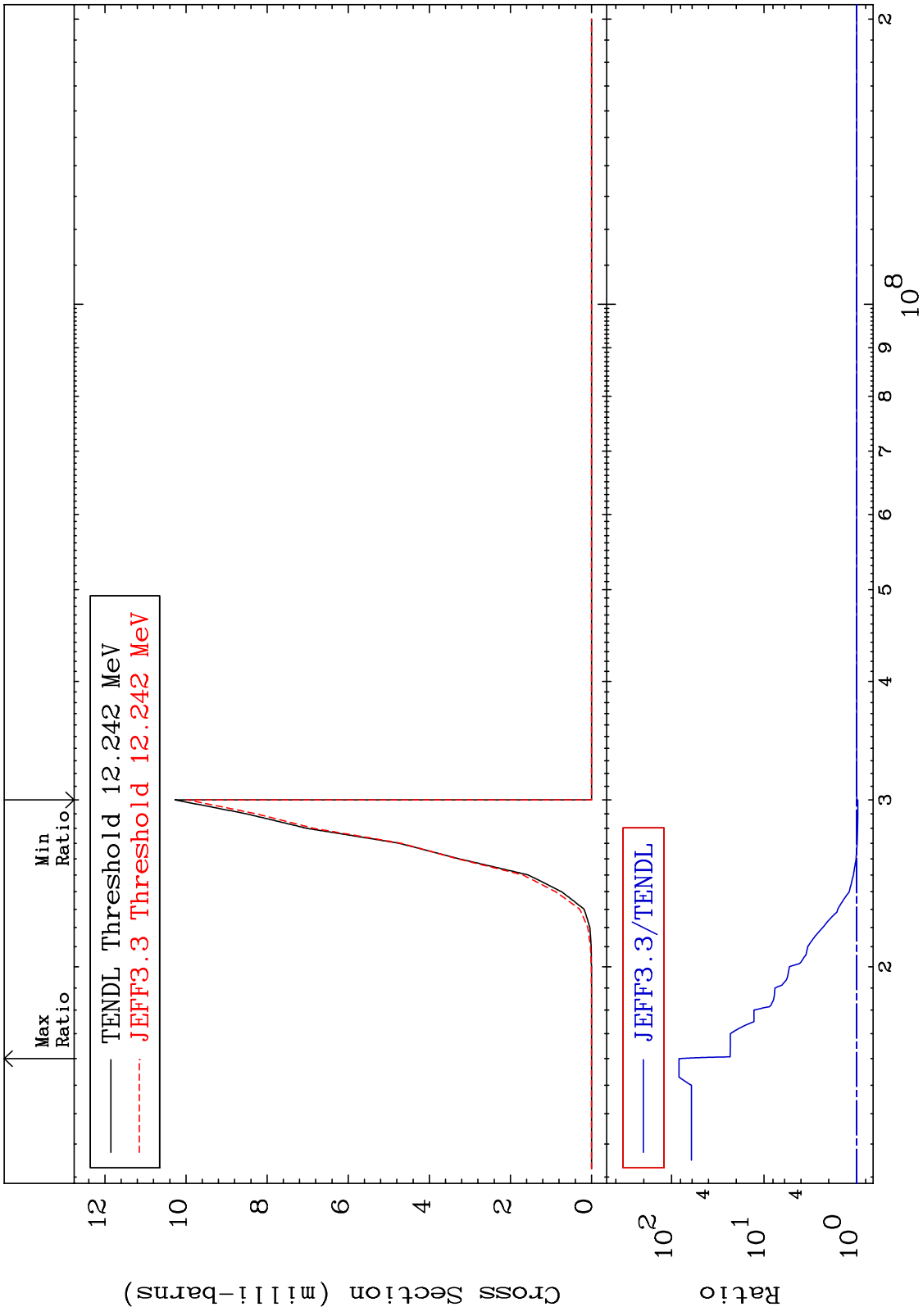
87

Incident Energy (eV)

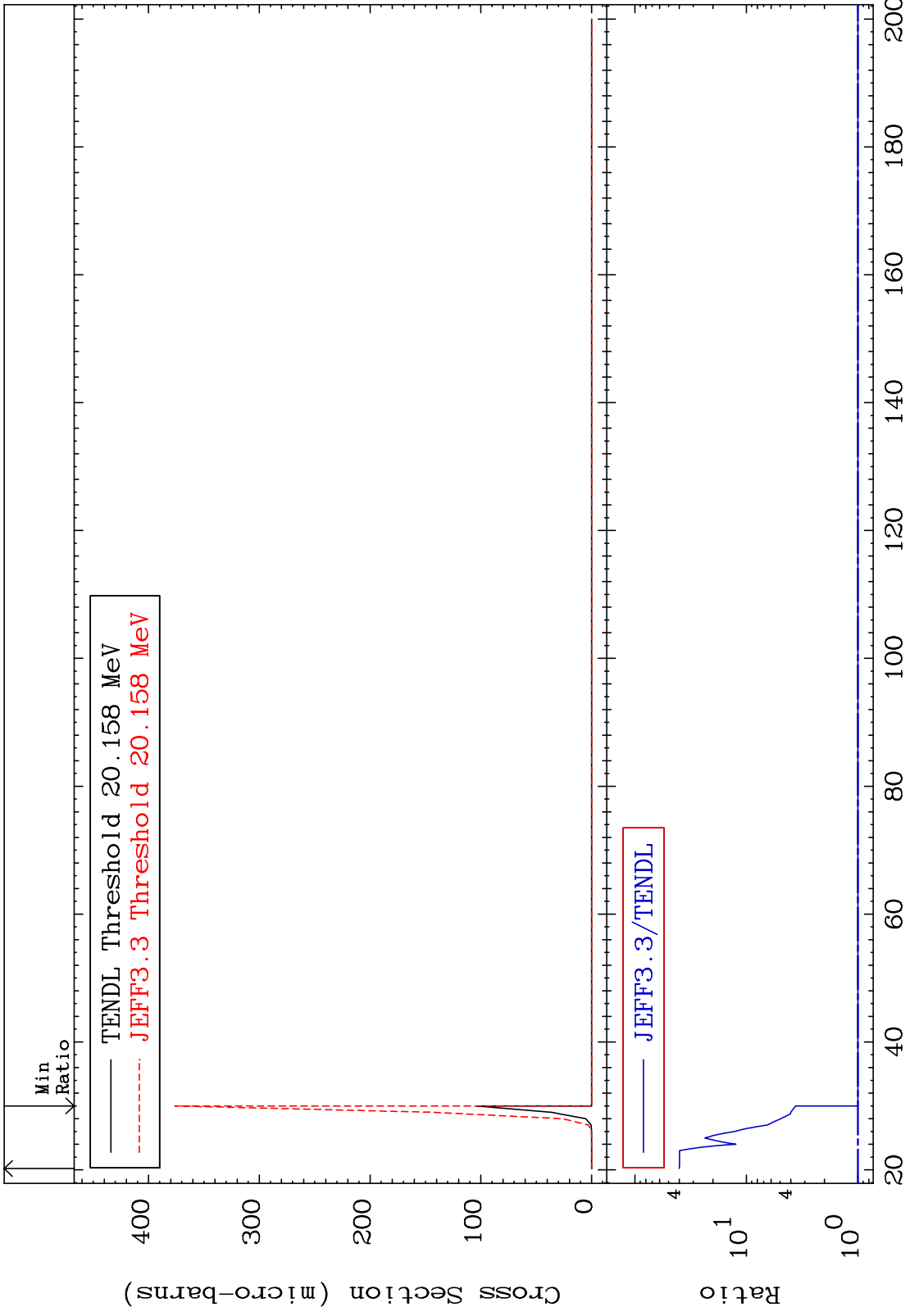
45-Rh-101

MAT 4519 (n,2n) α : 43-Tc-96g 45-Rh-101
 Radionuclide Production Cross Section -2.963 To 7937. %



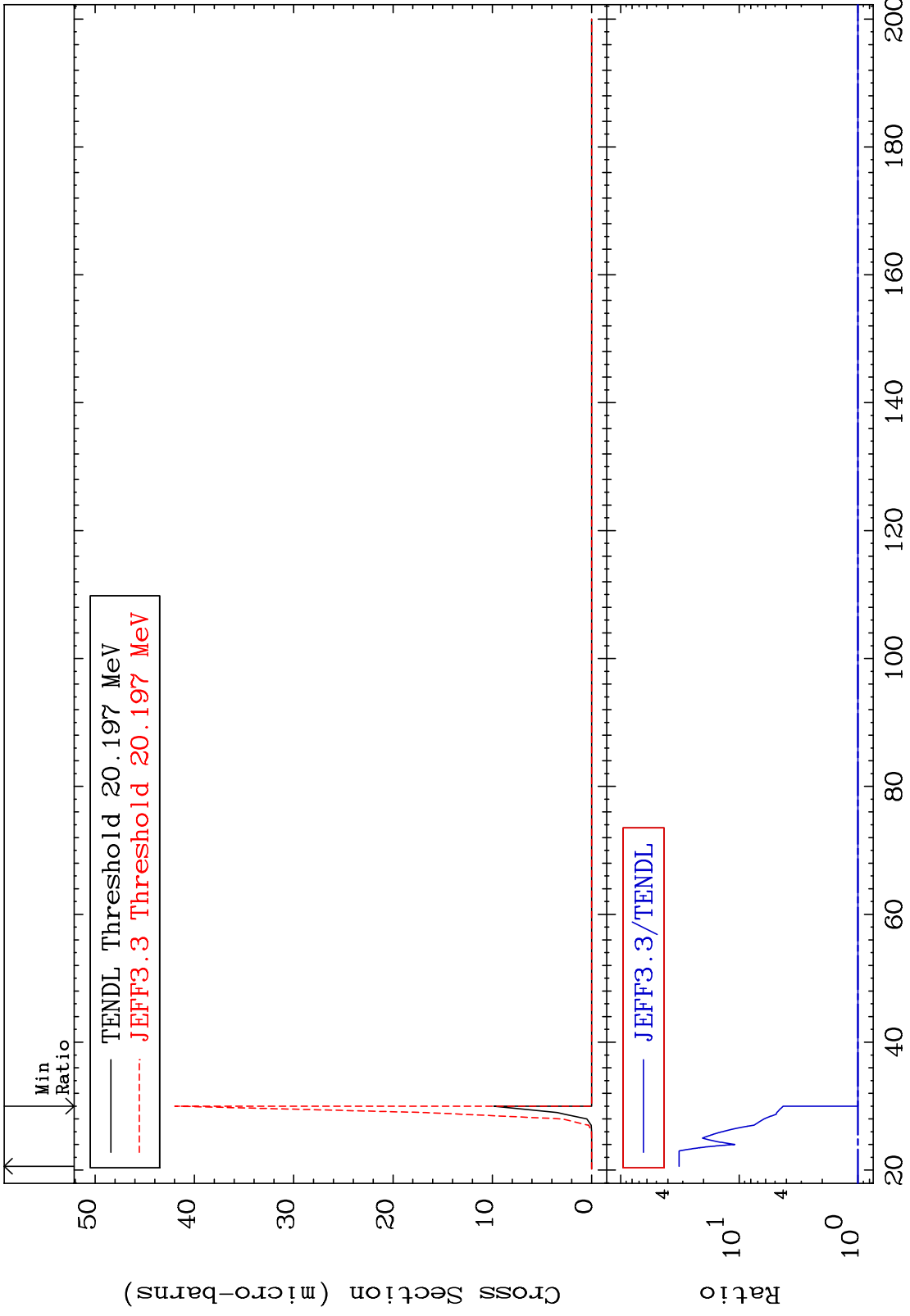


MAT 4519 (n,3n) α:43-Tc-95g 45-Rh-101
 Radionuclide Production Cross Section 0.000 To 3917. %

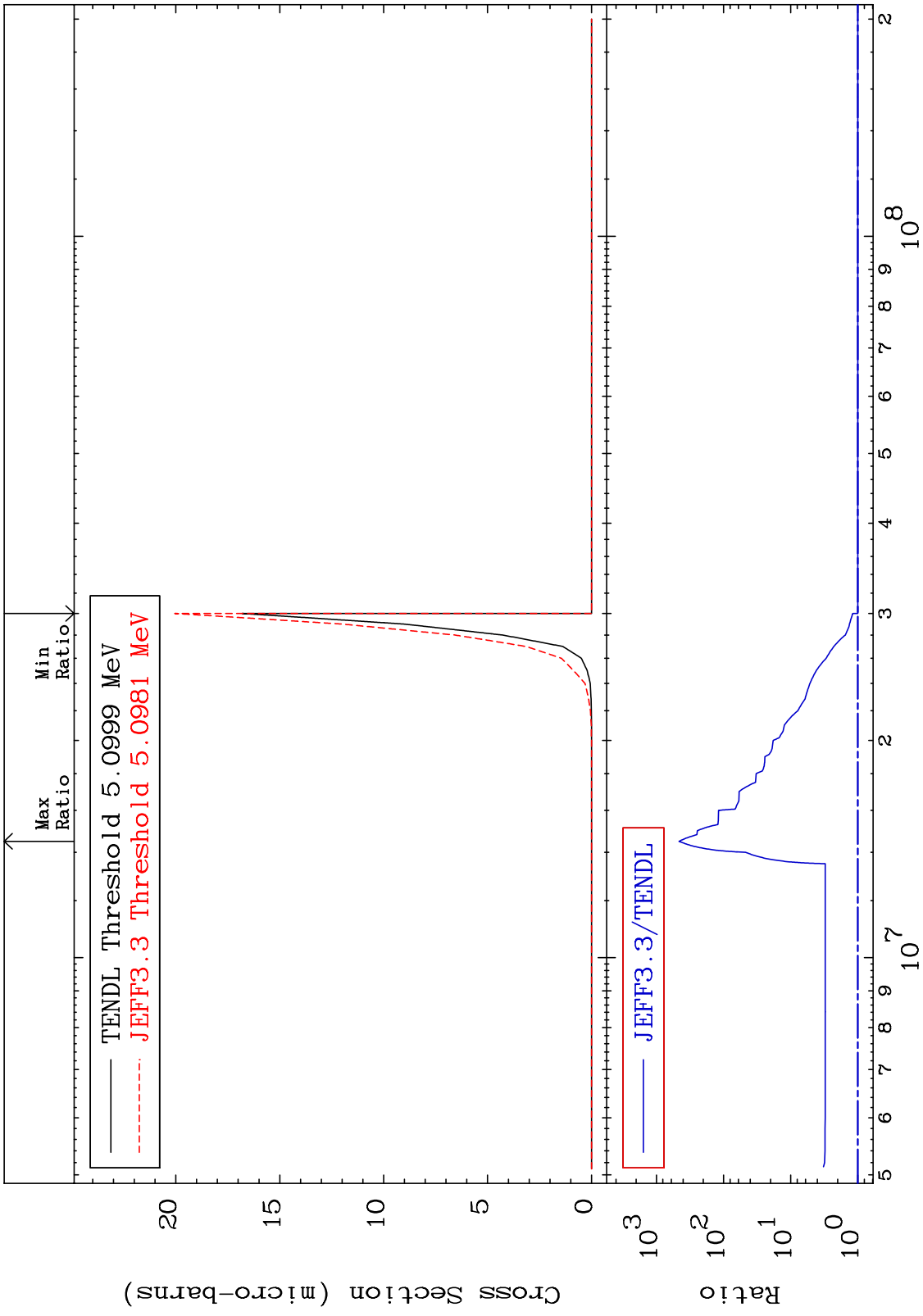


90 Incident Energy (MeV) 45-Rh-101

MAT 4519 (n,3n) α :43-Tc-95m1 45-Rh-101
 Radionuclide Production Cross Section 0.000 To 3114. %



MAT 4519 (n, n') 2α:41-Nb-93g 45-Rh-101
 Radionuclide Production Cross Section 0.000 To 9999. %

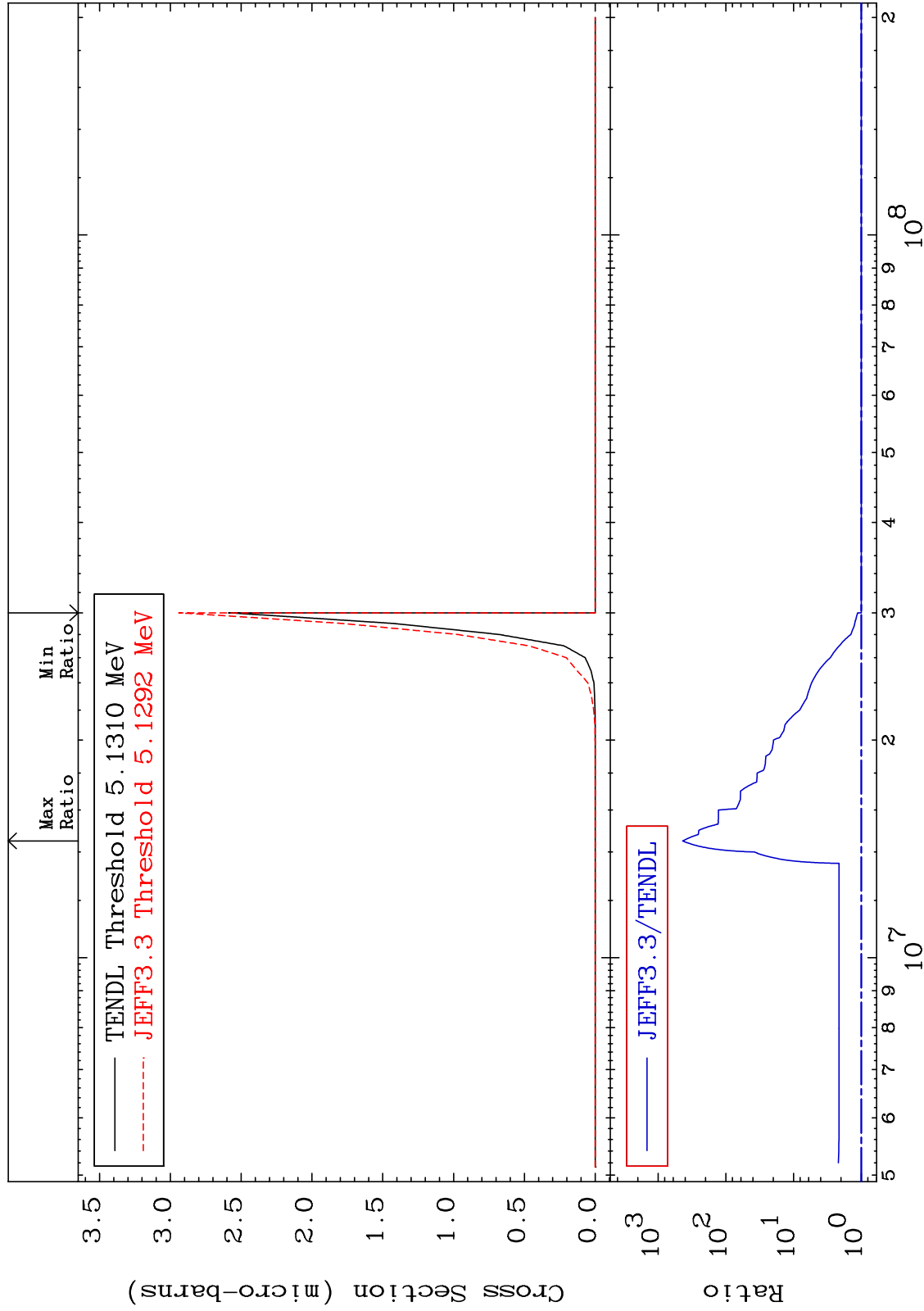


MAT 4519

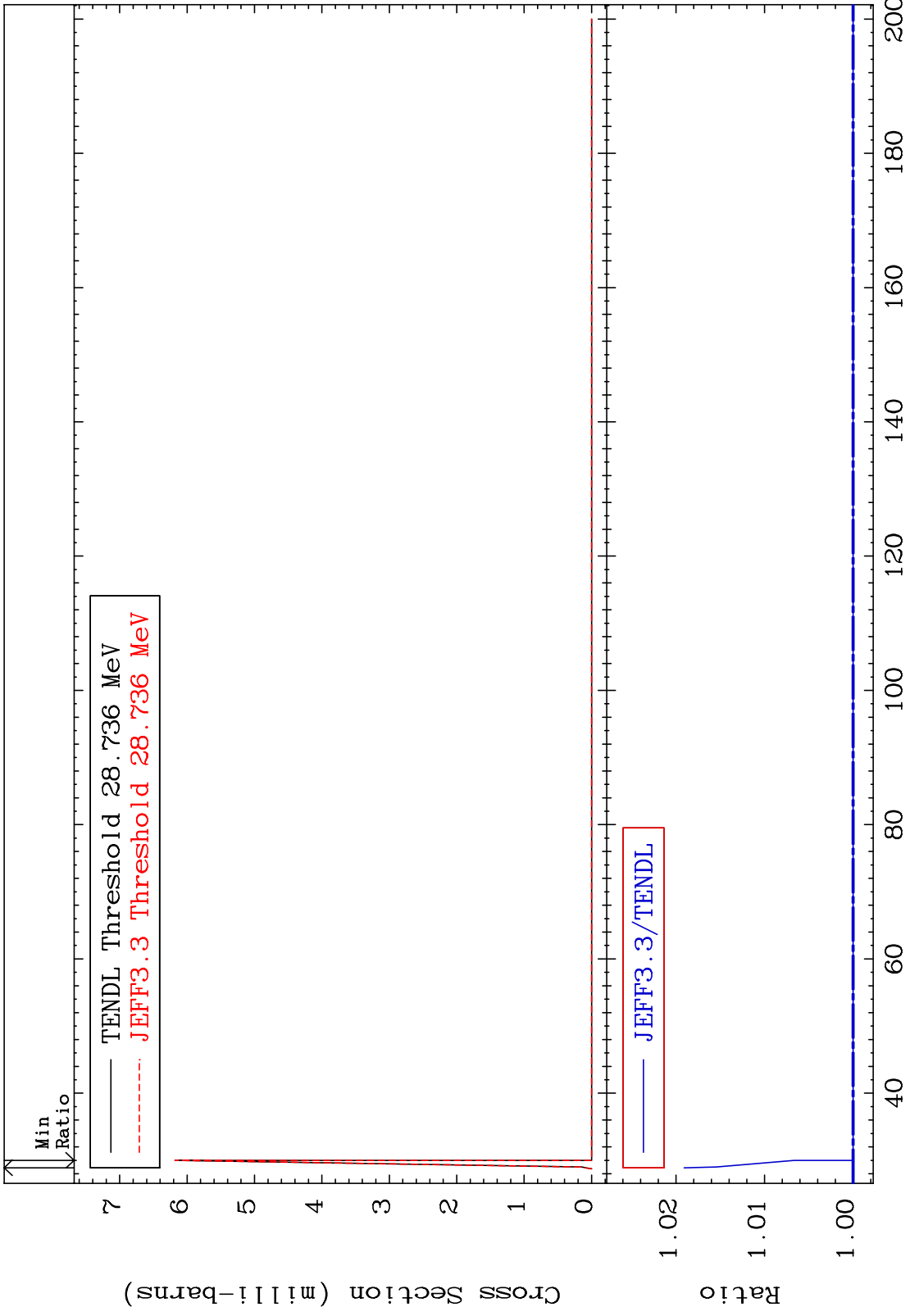
(n, n') 2 α :41-Nb-93m1

45-Rh-101

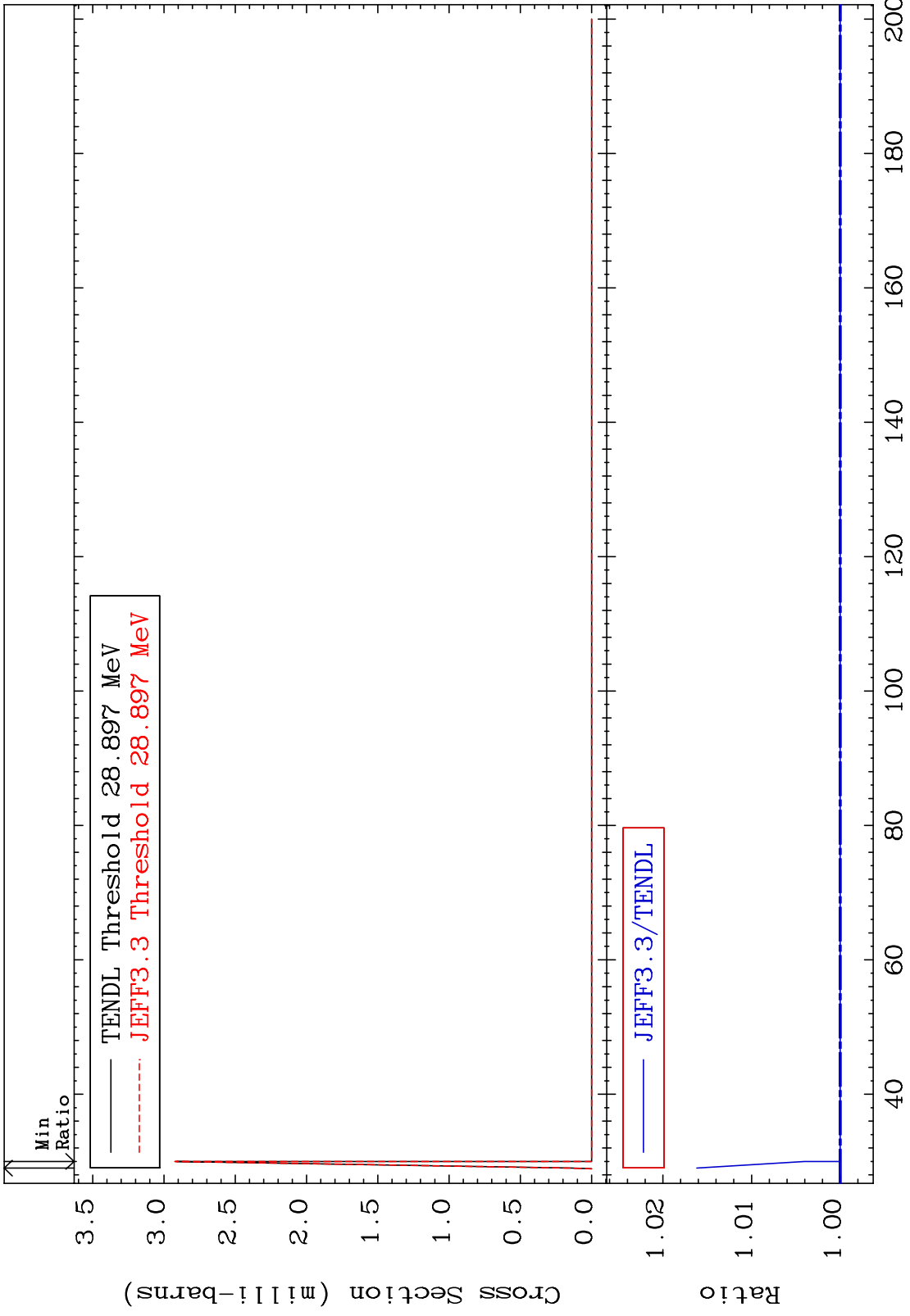
Radionuclide Production Cross Section 0.000 To 9999. %



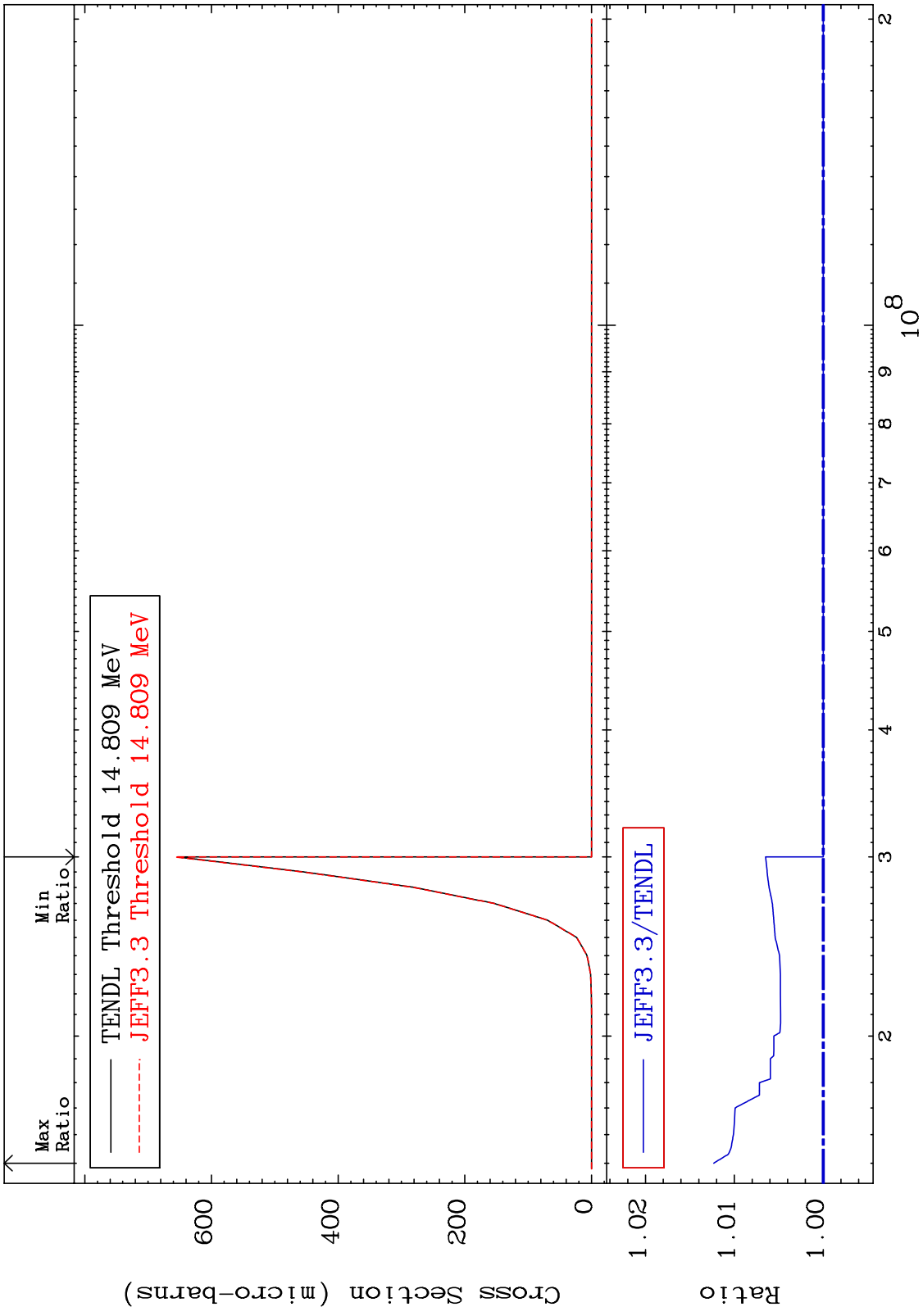
MAT 4519 (n,4n) : 45-Rh-98g 45-Rh-101
 Radionuclide Production Cross Section 0.000 To 1.909 %



MAT 4519 (n,4n):45-Rh-98m3 45-Rh-101
Radionuclide Production Cross Section 0.000 To 1.617 %



MAT 4519 (n,2n) p:43-Tc-99g 45-Rh-101
 Radionuclide Production Cross Section 0.000 To 1.233 %

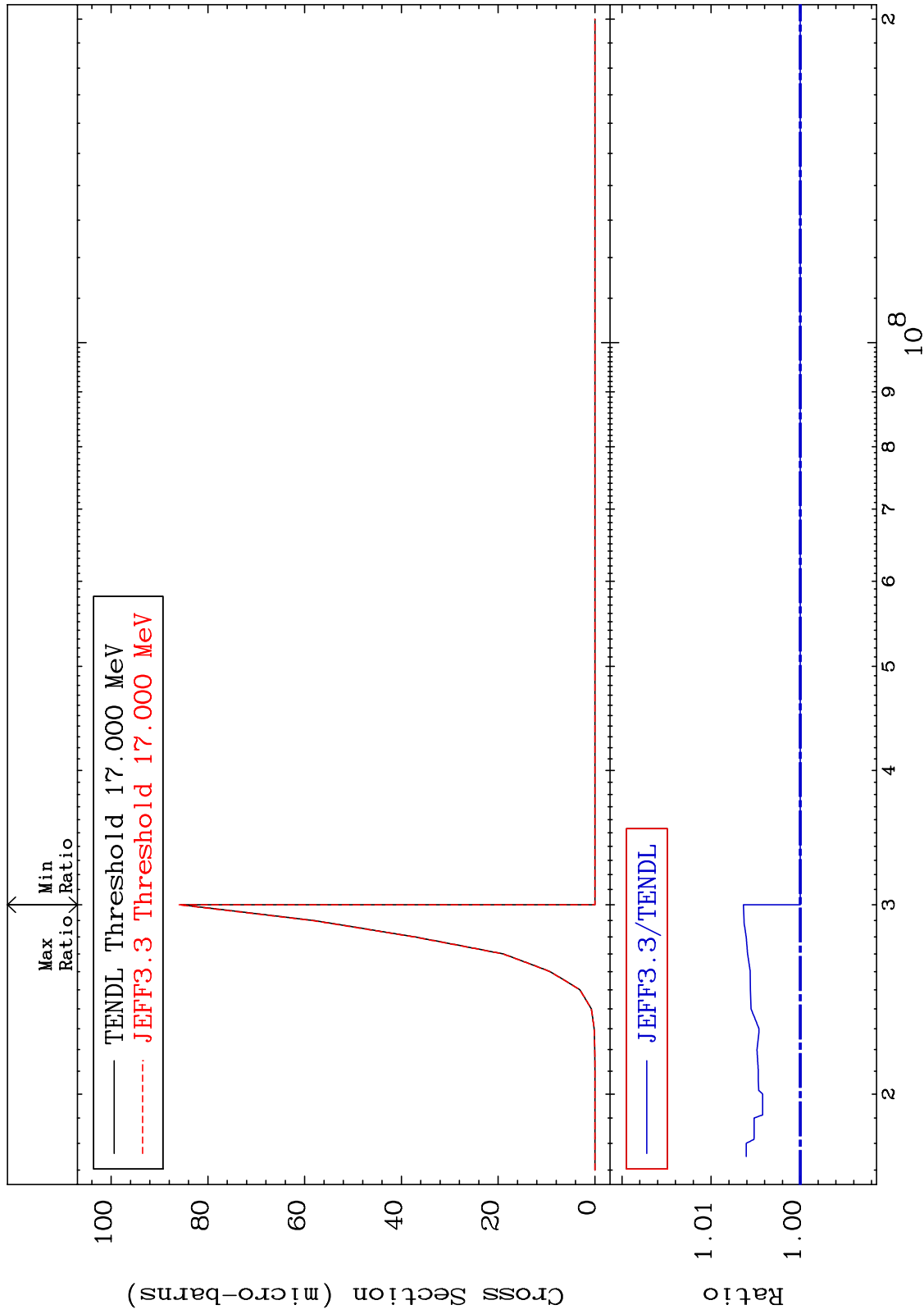


MAT 4519

(n,2n) p:43-Tc-99m2

45-Rh-101

Radionuclide Production Cross Section 0.000 To 0.637 %

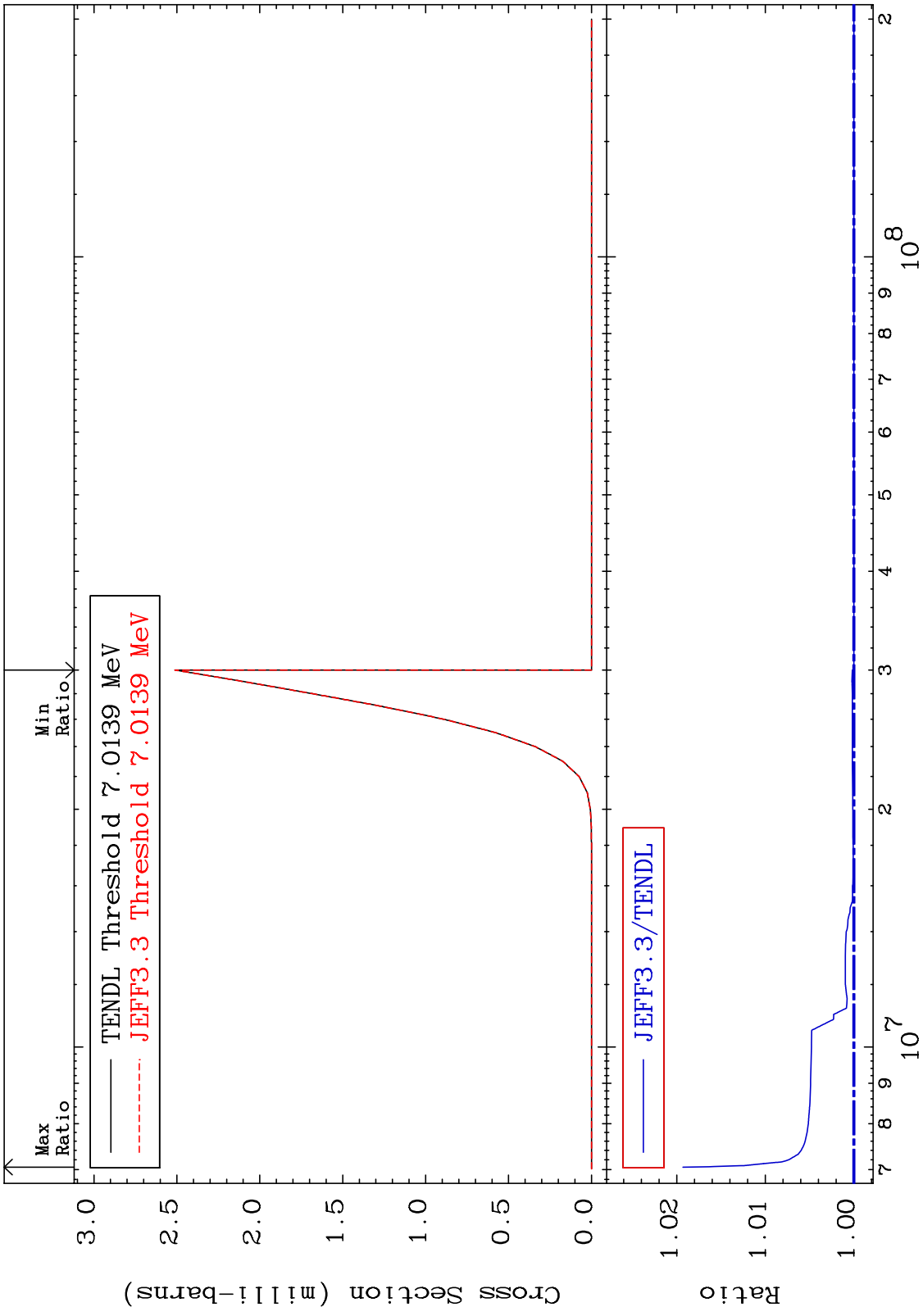


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Incident Energy (eV)

45-Rh-101

MAT 4519 (n,He-3):43-Tc-99g 45-Rh-101
 Radionuclide Production Cross Section 0.000 To 1.931 %

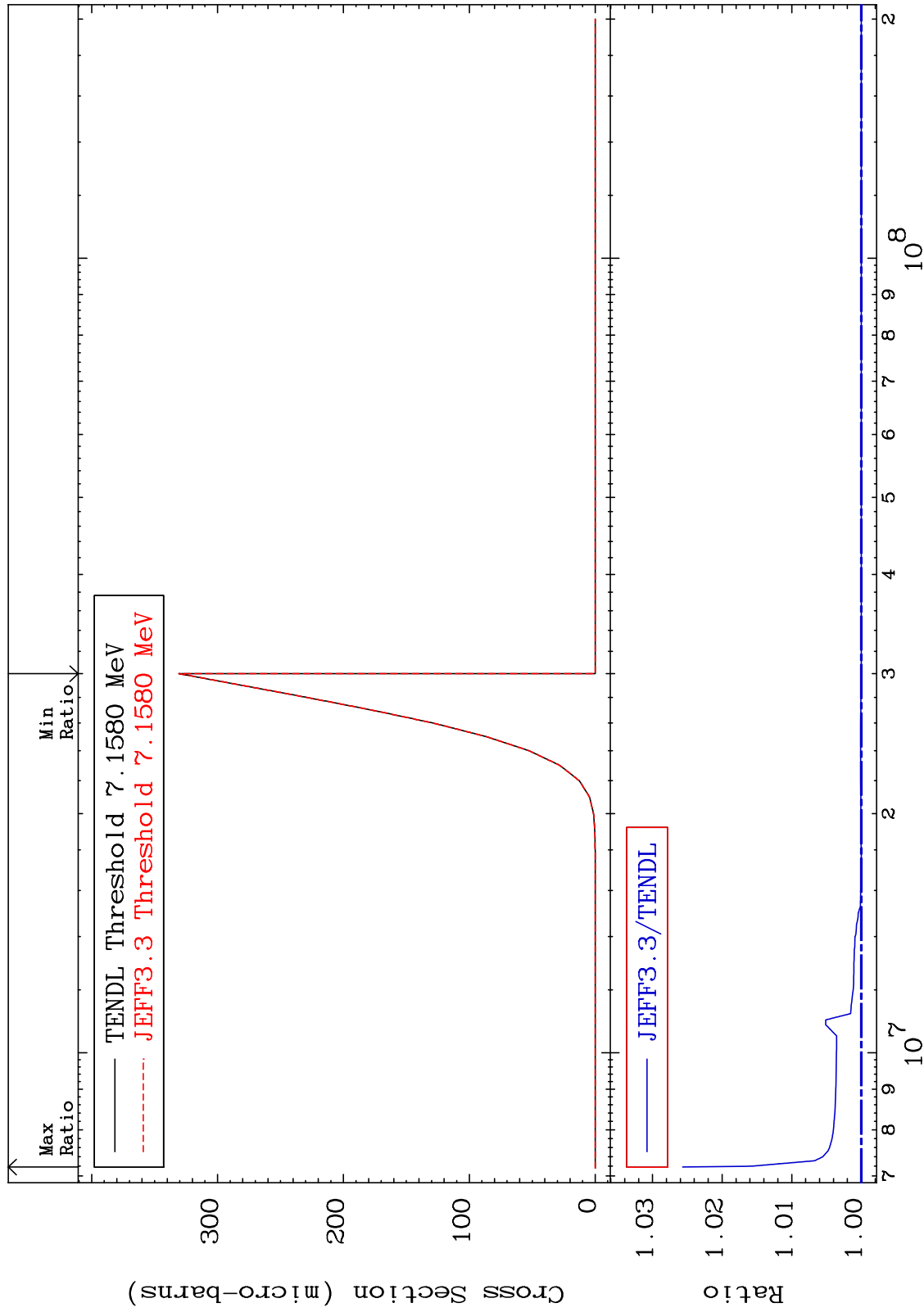


MAT 4519

(n, He-3) : 43-Tc-99m2

45-Rh-101

Radionuclide Production Cross Section 0.000 To 2.567 %

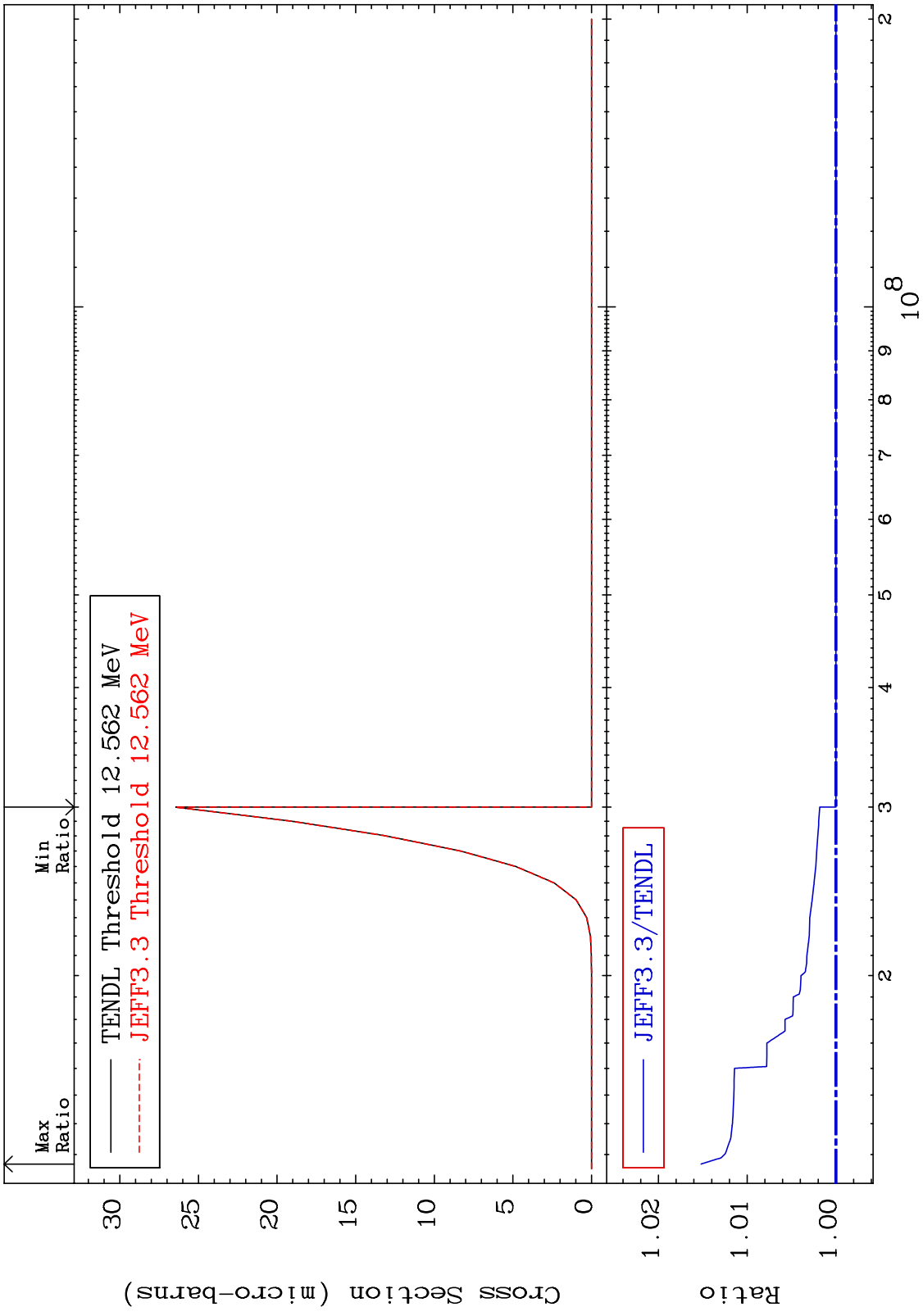


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Incident Energy (eV)

45-Rh-101

MAT 4519 (n,p) d:43-Tc-99g 45-Rh-101
 Radionuclide Production Cross Section 0.000 To 1.520 %



100 45-Rh-101

MAT 4519 (n,p) d:43-Tc-99m2 45-Rh-101
 Radionuclide Production Cross Section 0.000 To 1.000 %

