

Program Complot  
(Version 2018-1)

by

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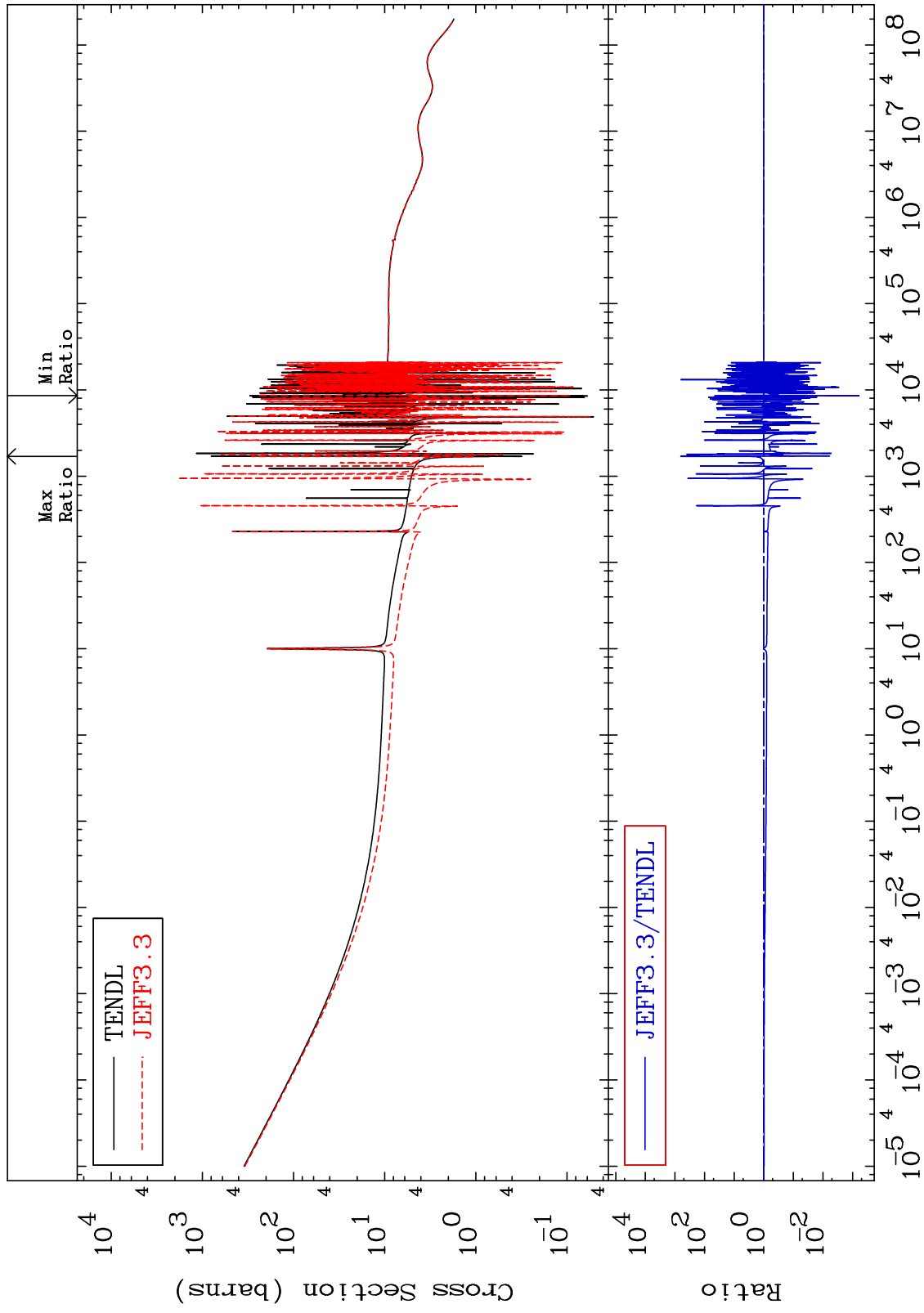
Press Mouse Button to Start

MAT 4437

Total  
Cross Section

44-Ru-100

-99.94 To 9999. %



Incident Energy (eV)

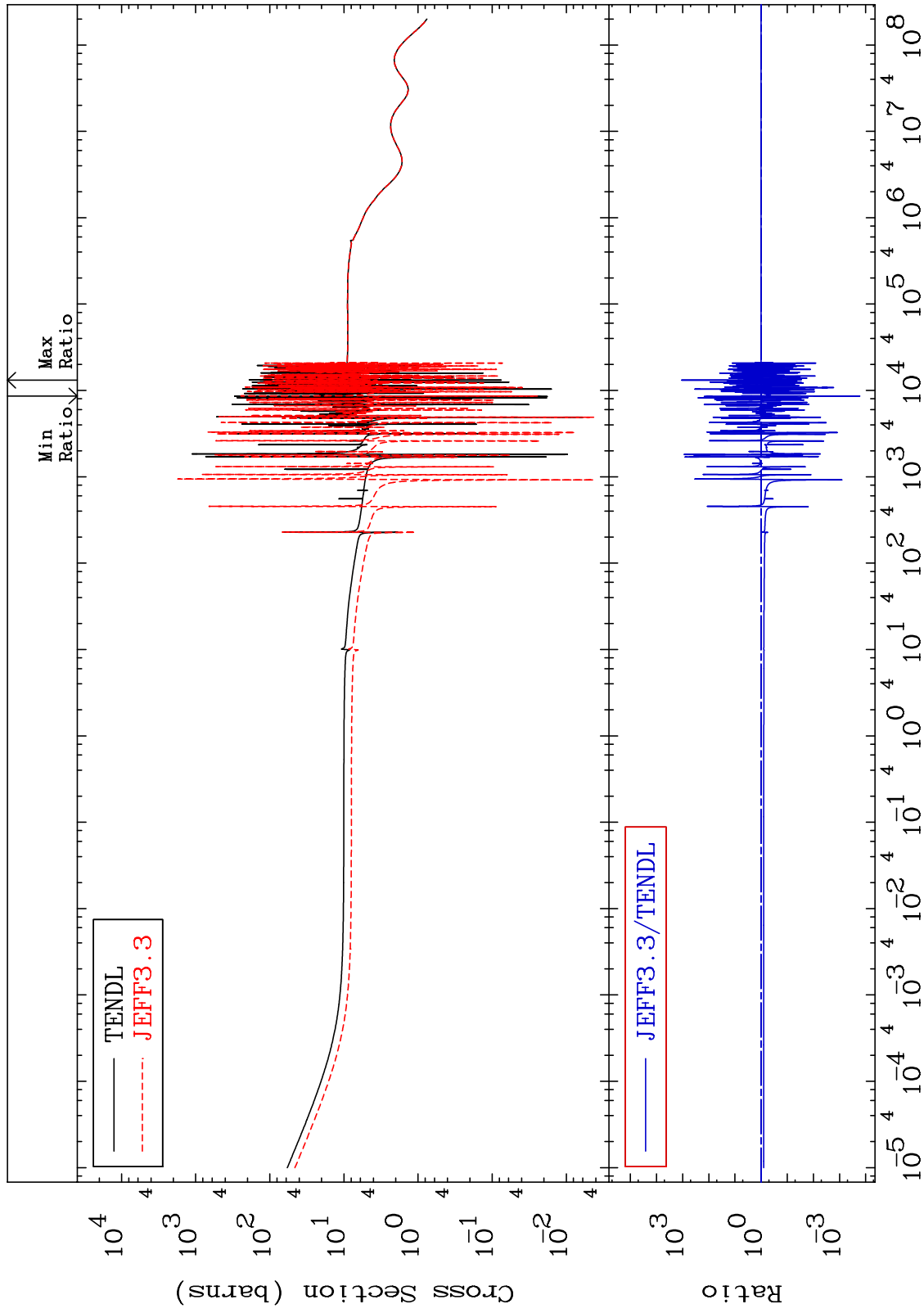
44-Ru-100

1

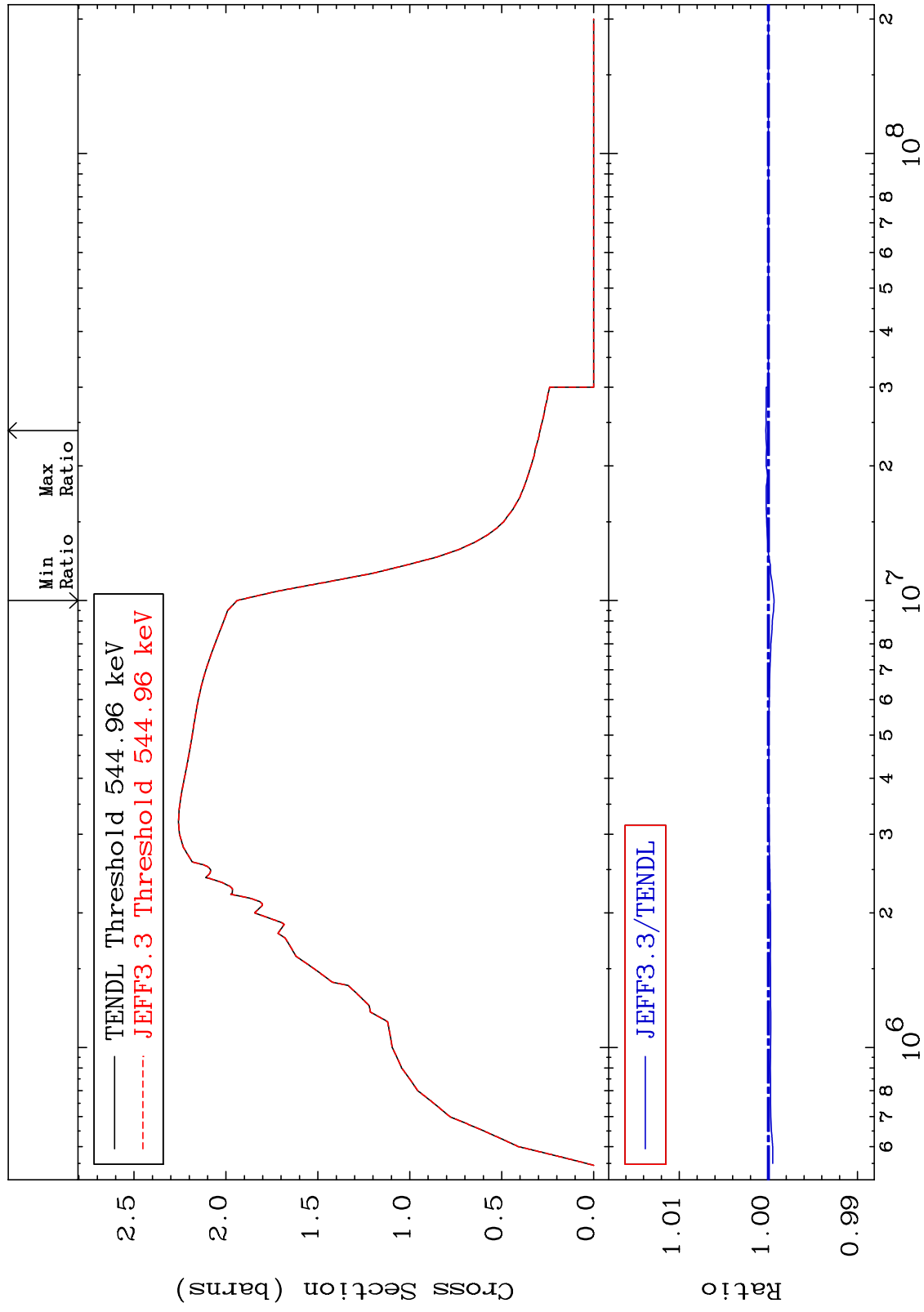
MAT 4437

Elastic  
Cross Section

44-Ru-100  
-99.98 To 9999. %

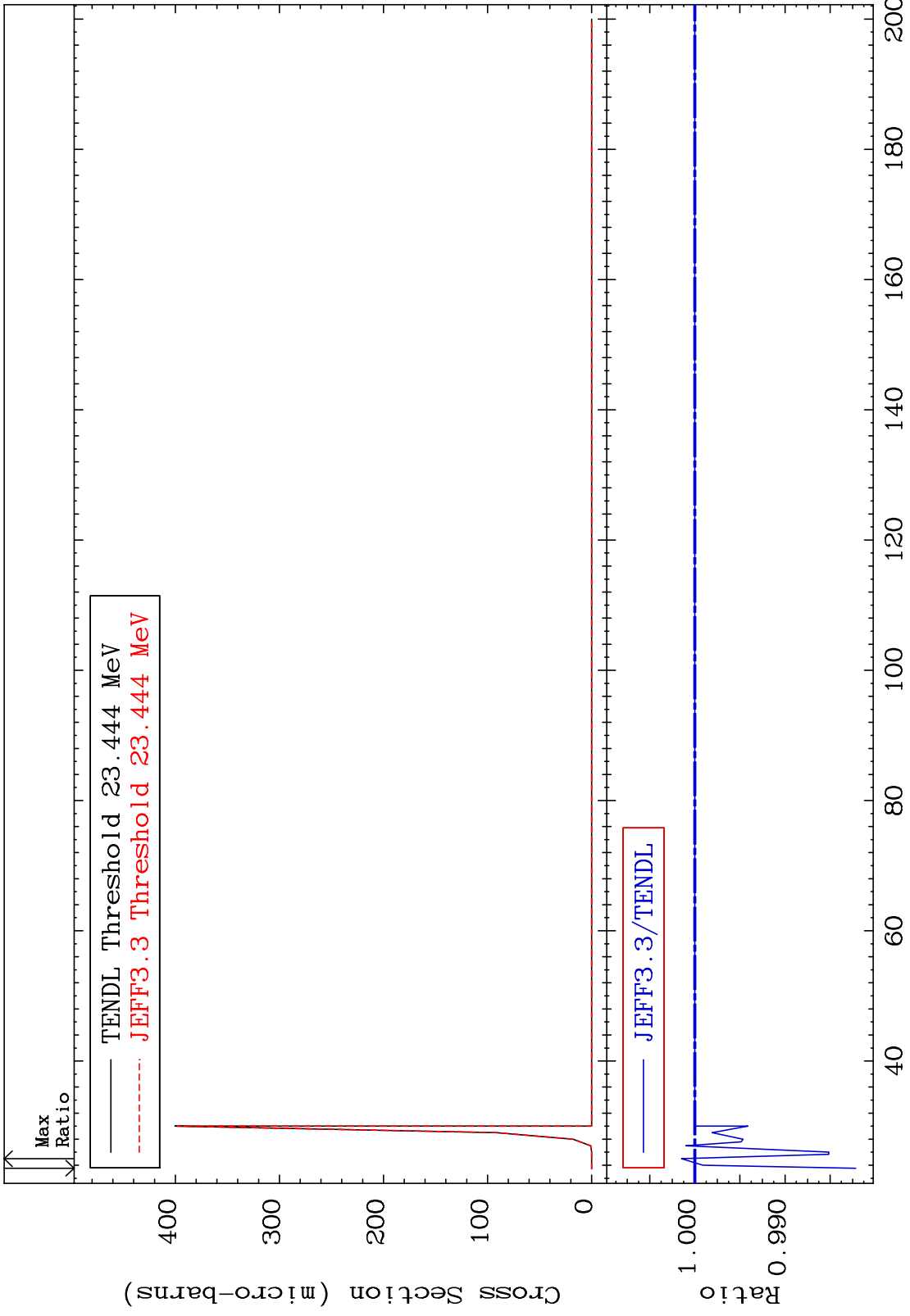


MAT 4437 Inelastic Cross Section 44-Ru-100 -0.064 To 0.029 %



3 44-Ru-100

MAT 4437 (n,2n) d 44-Ru-100  
Cross Section -1.784 To 0.149 %



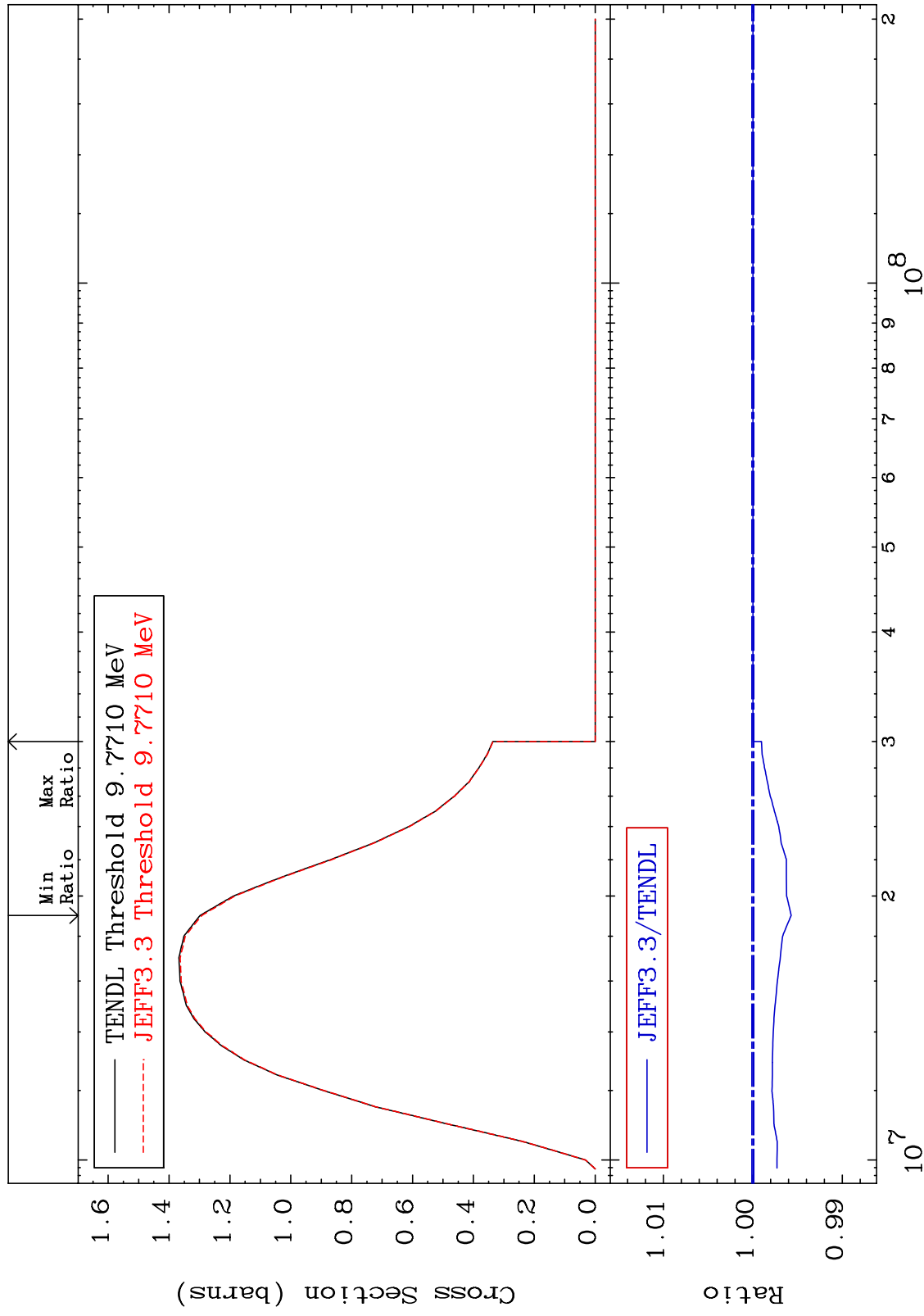
MAT 4437

(n,2n)

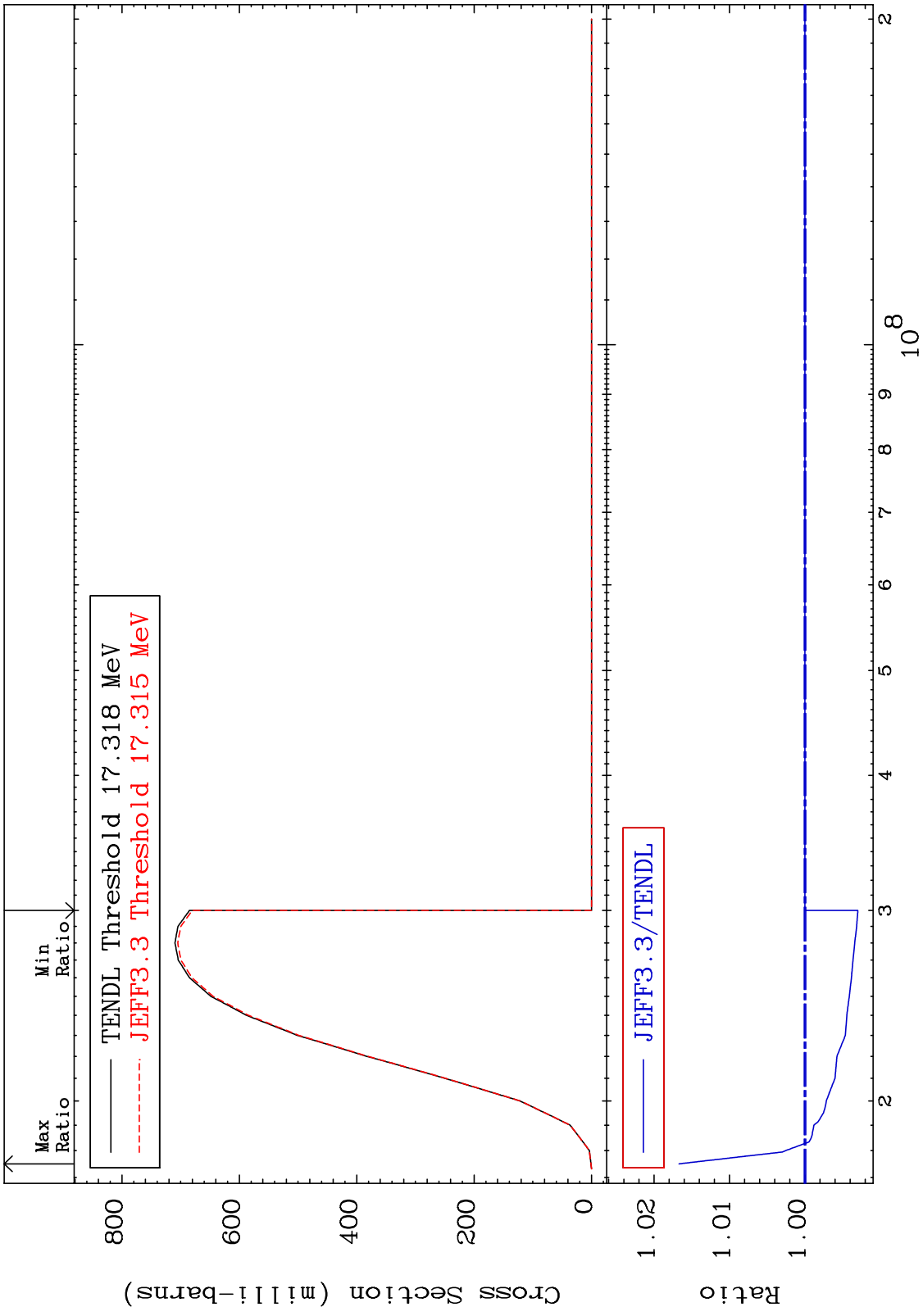
44-Ru-100

Cross Section

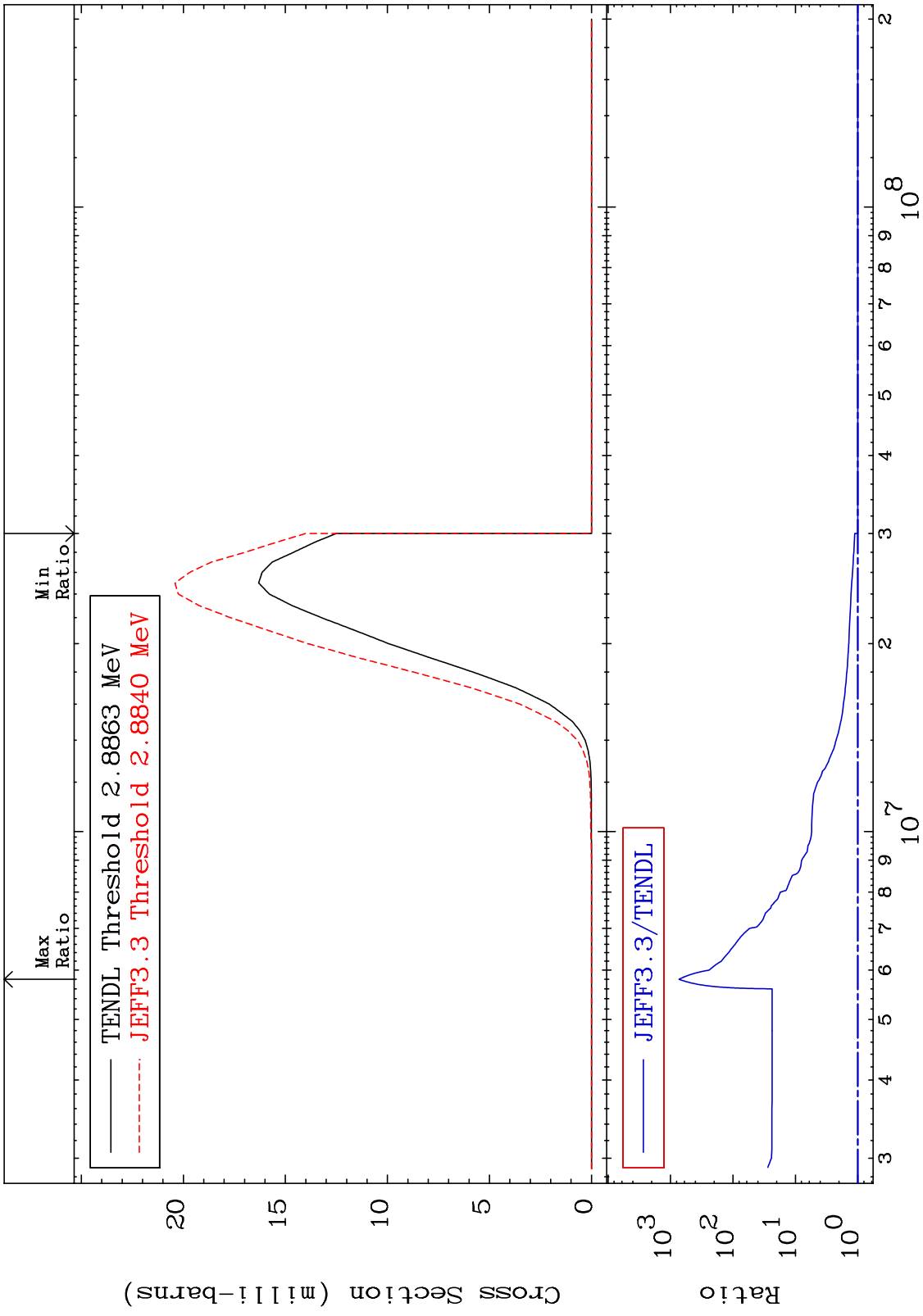
-0.428 To 0.000 %



MAT 4437 (n,3n) Cross Section 44-Ru-100 -0.701 To 1.668 %



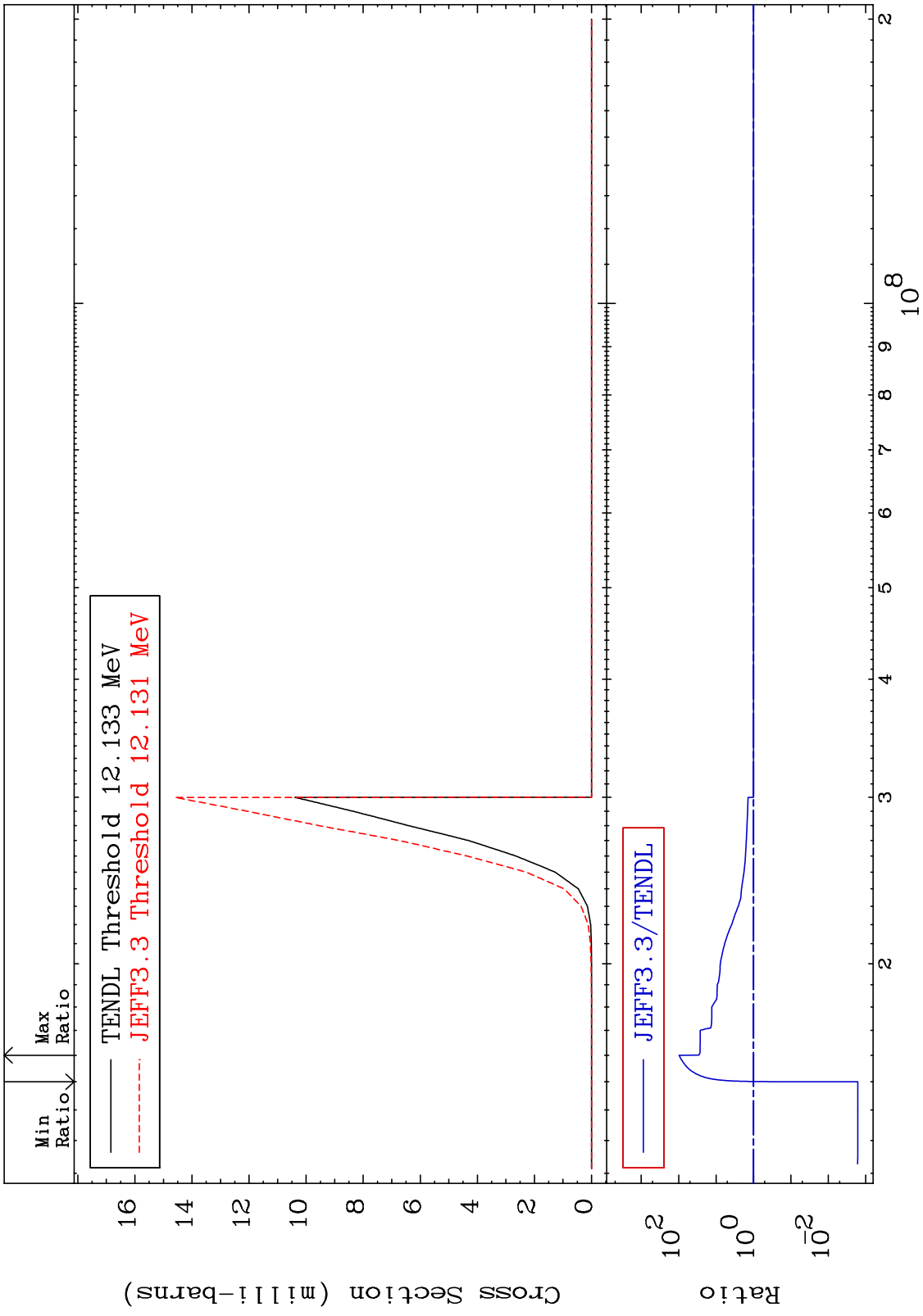
MAT 4437  $(n, n') \alpha$  Cross Section 44-Ru-100 To 9999. %



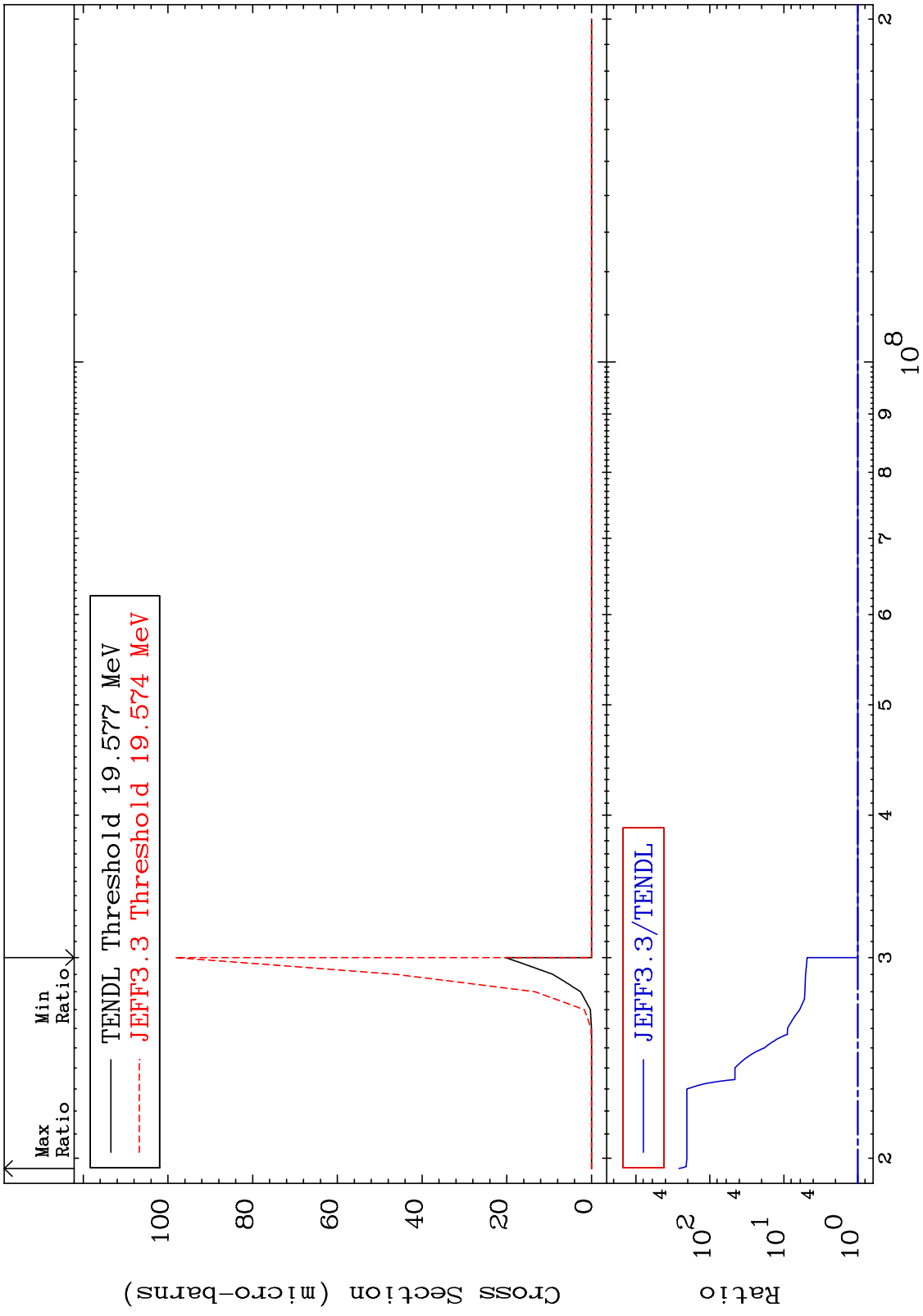
7 44-Ru-100 Incident Energy (eV)



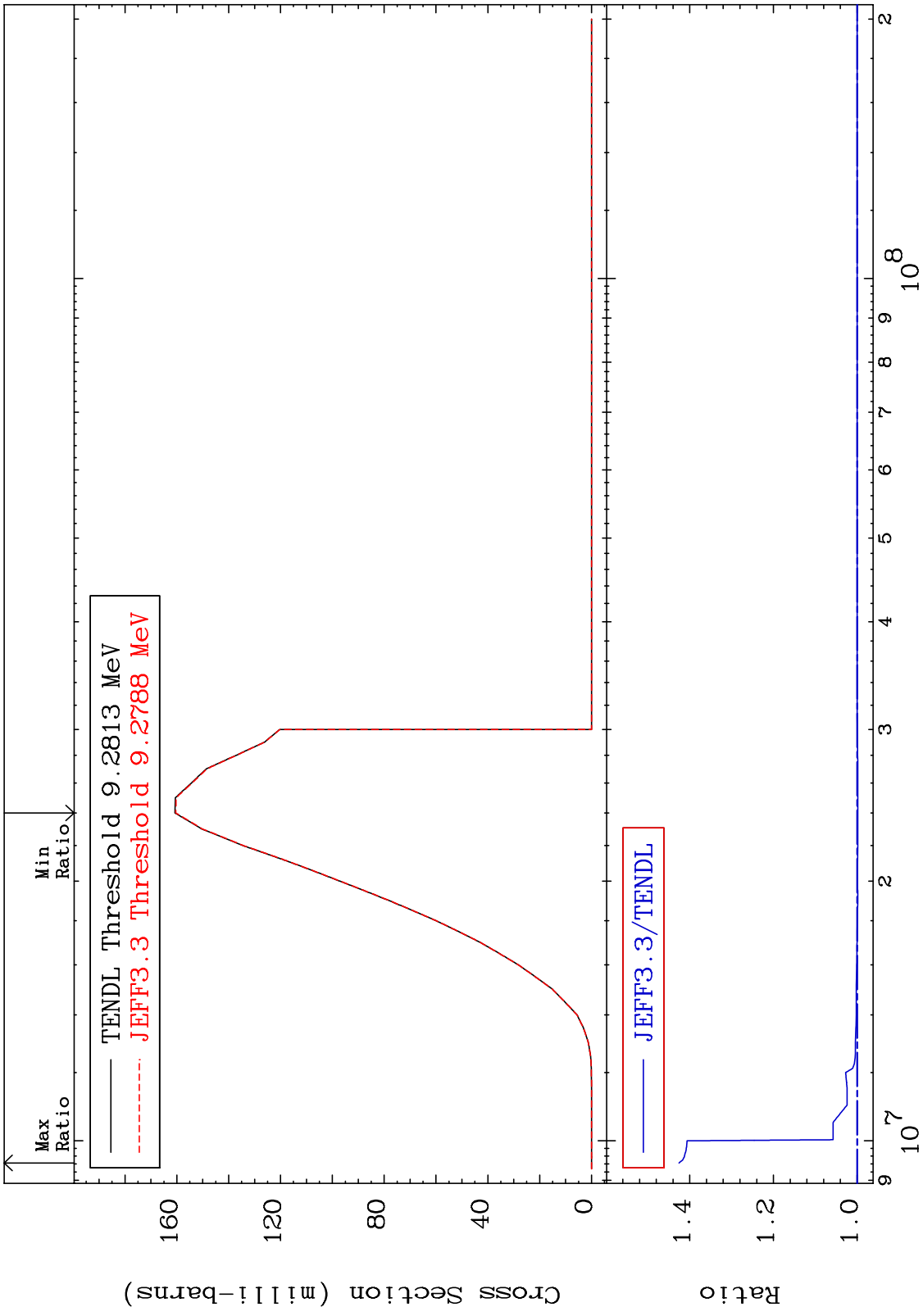
MAT 4437 (n,2n)  $\alpha$  44-Ru-100  
 Cross Section -99.84 To 9665. %



MAT 4437 (n,3n)  $\alpha$  44-Ru-100  
 Cross Section 0.000 To 9999. %

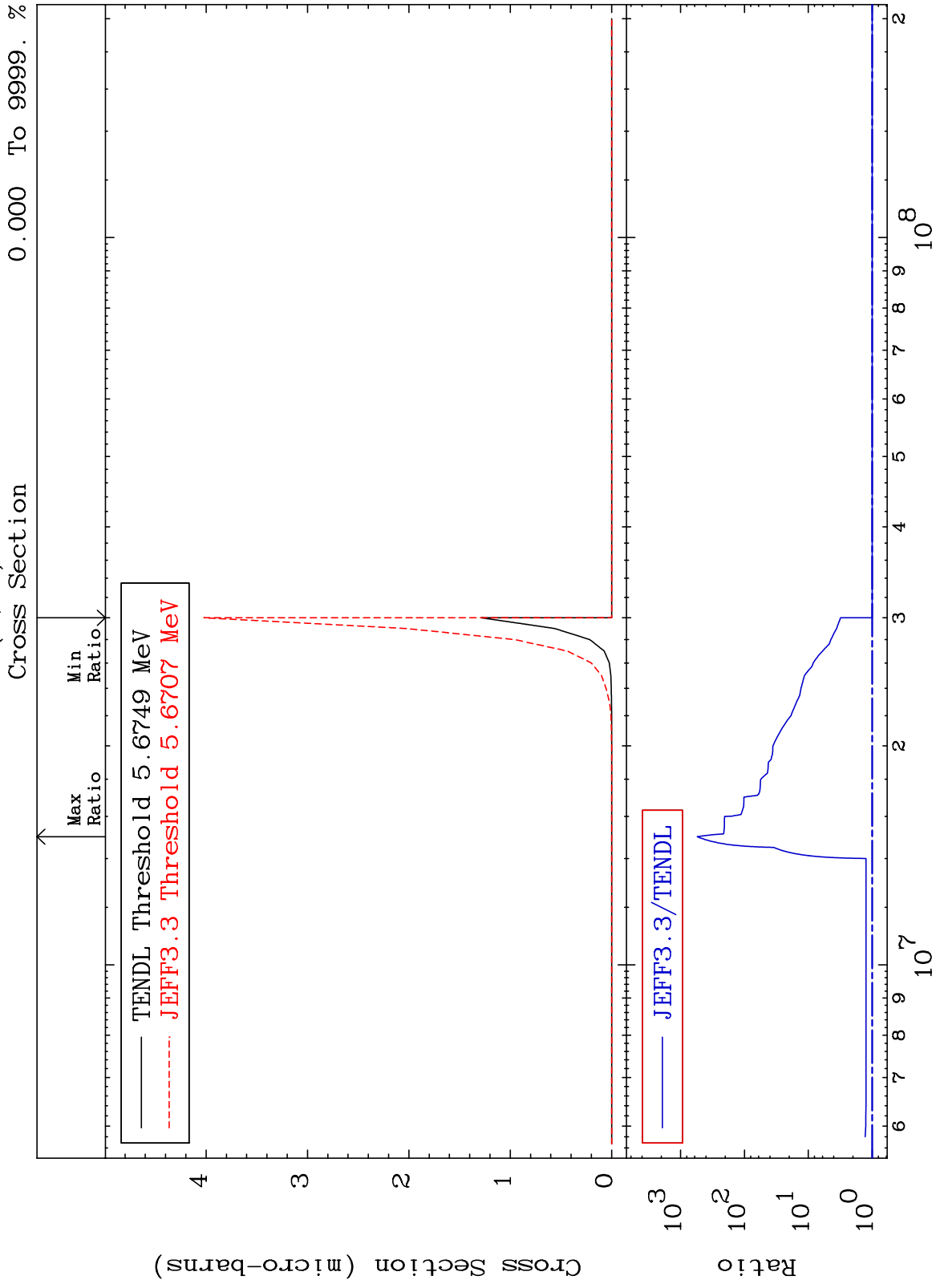


MAT 4437 (n, n') p 44-Ru-100  
Cross Section -0.177 To 42.56 %



44-Ru-100

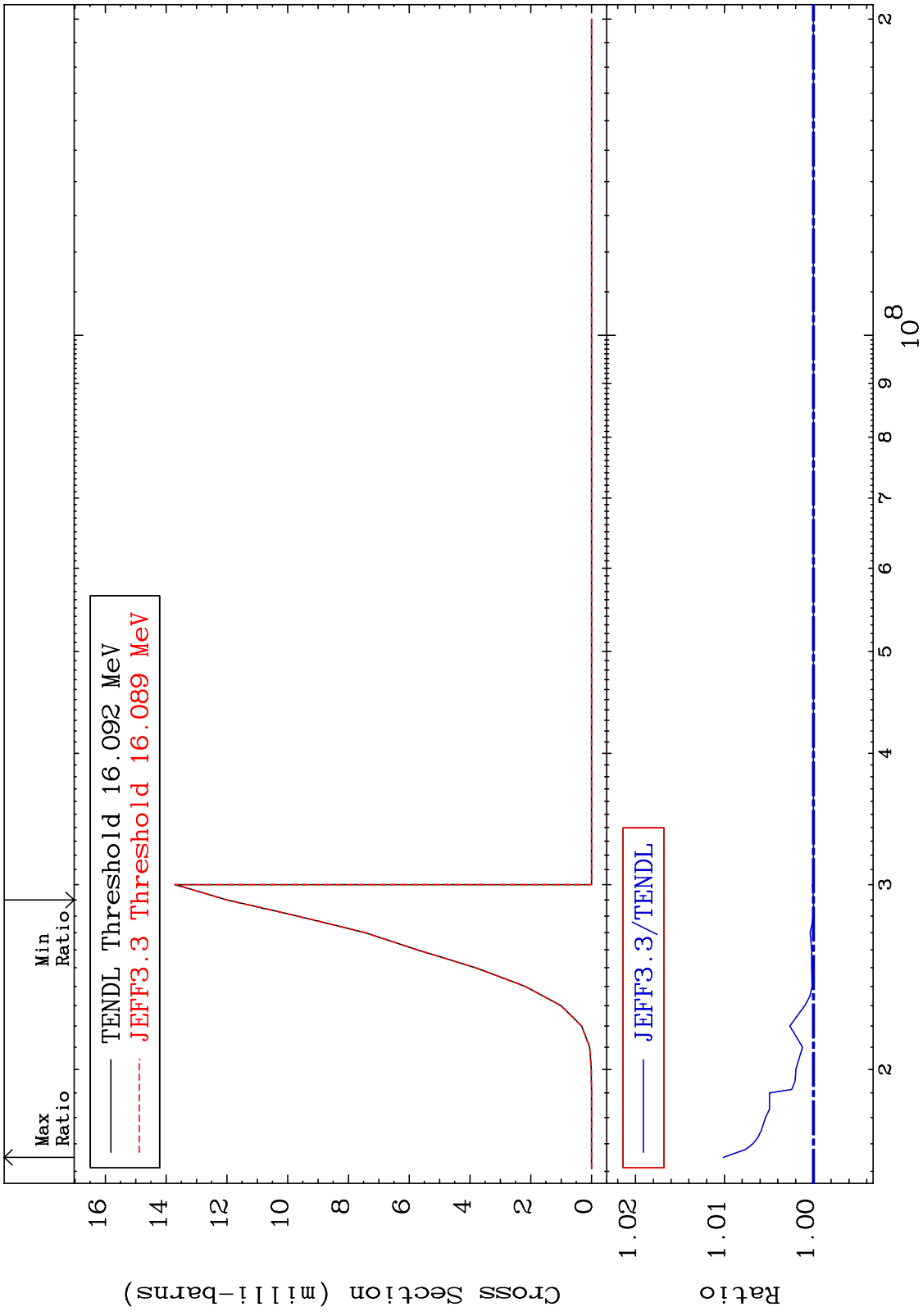
MAT 4437 (n, n') 2α 44-Ru-100 To 9999. %



44-Ru-100

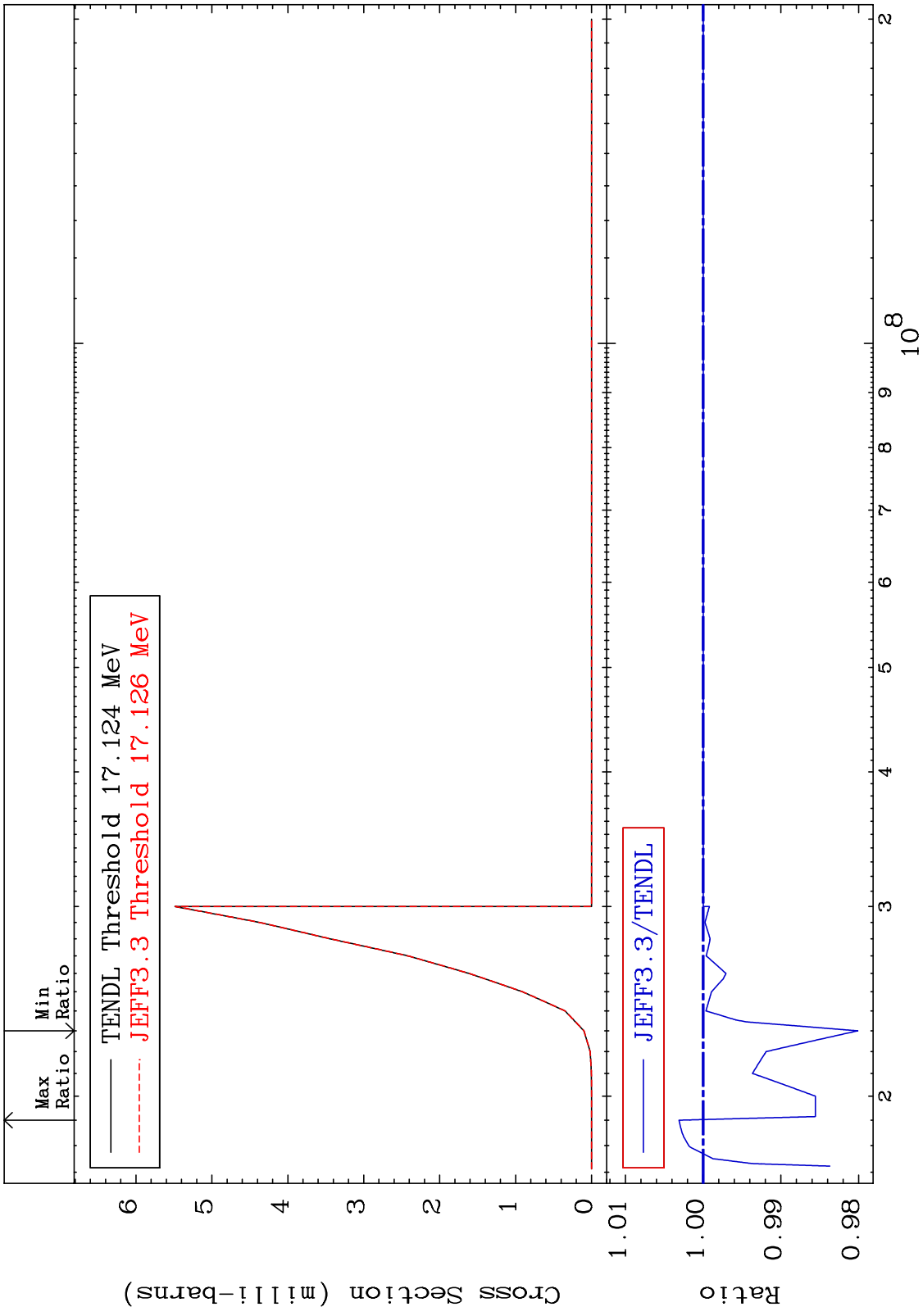
Incident Energy (eV)

MAT 4437 (n, n') d 44-Ru-100  
 Cross Section -0.002 To 1.013 %

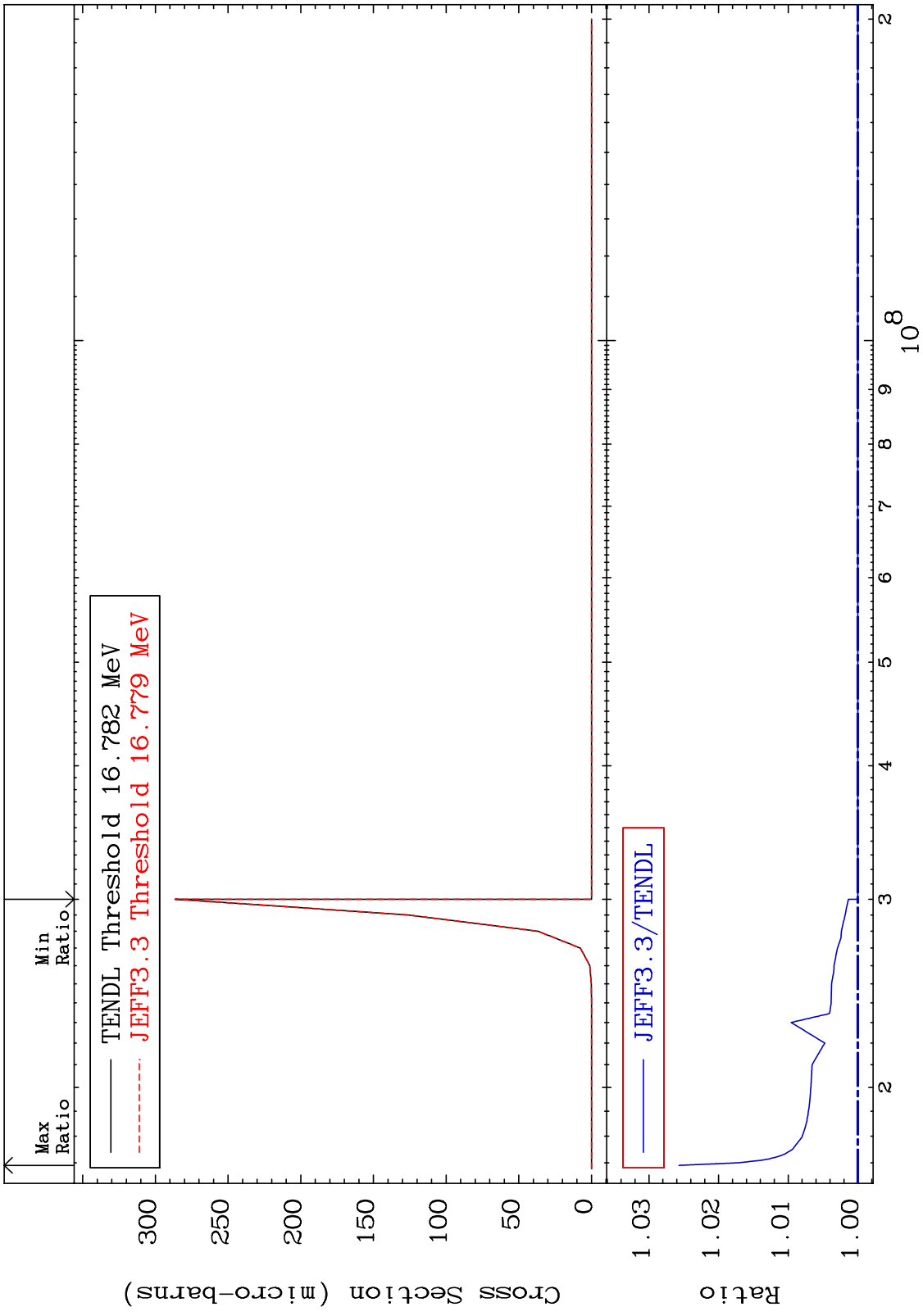


12 44-Ru-100

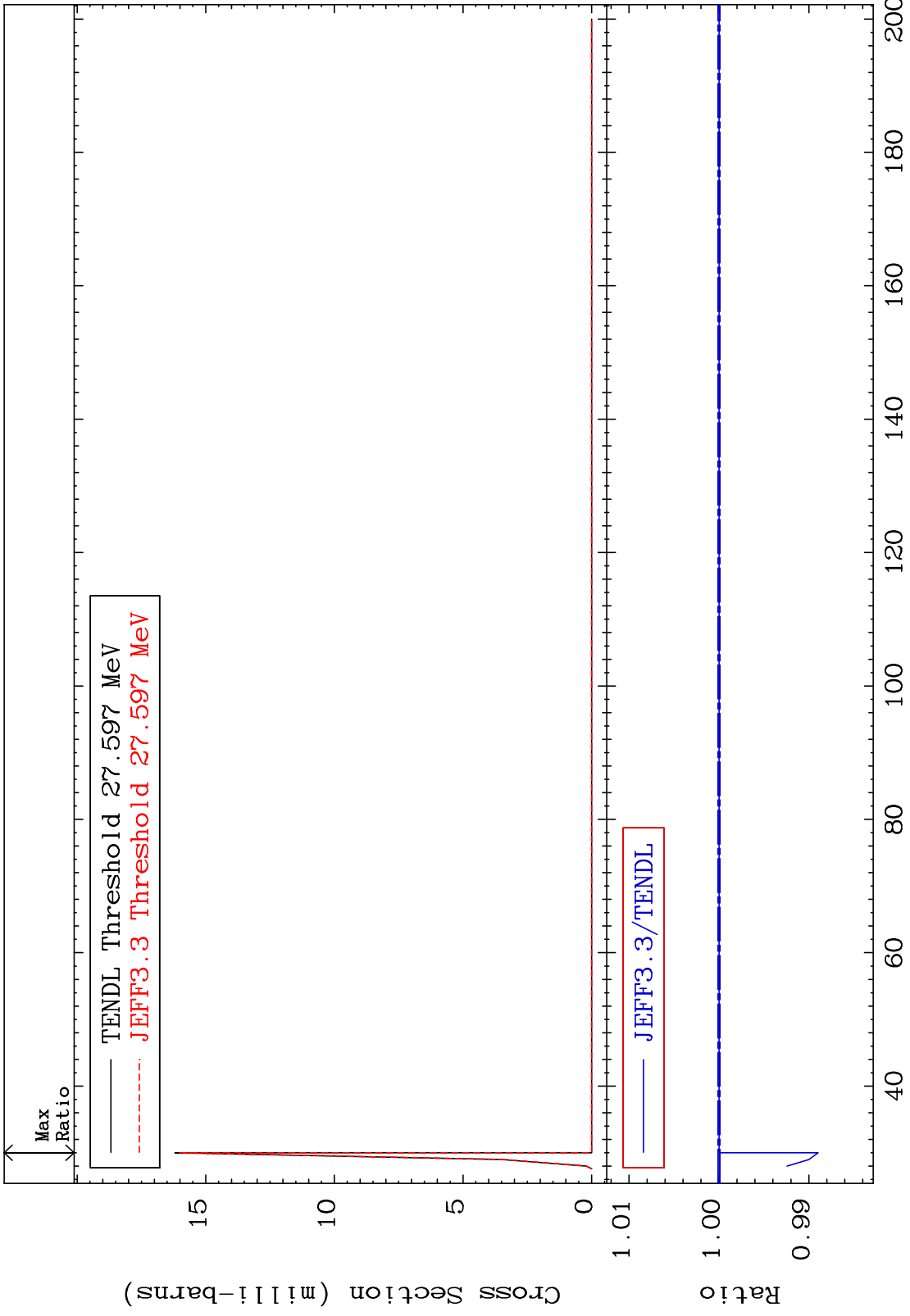
MAT 4437 (n, n') t 44-Ru-100  
 Cross Section -1.989 To 0.310 %



MAT 4437 (n, n') He-3 44-Ru-100  
 Cross Section 0.000 To 2.568 %

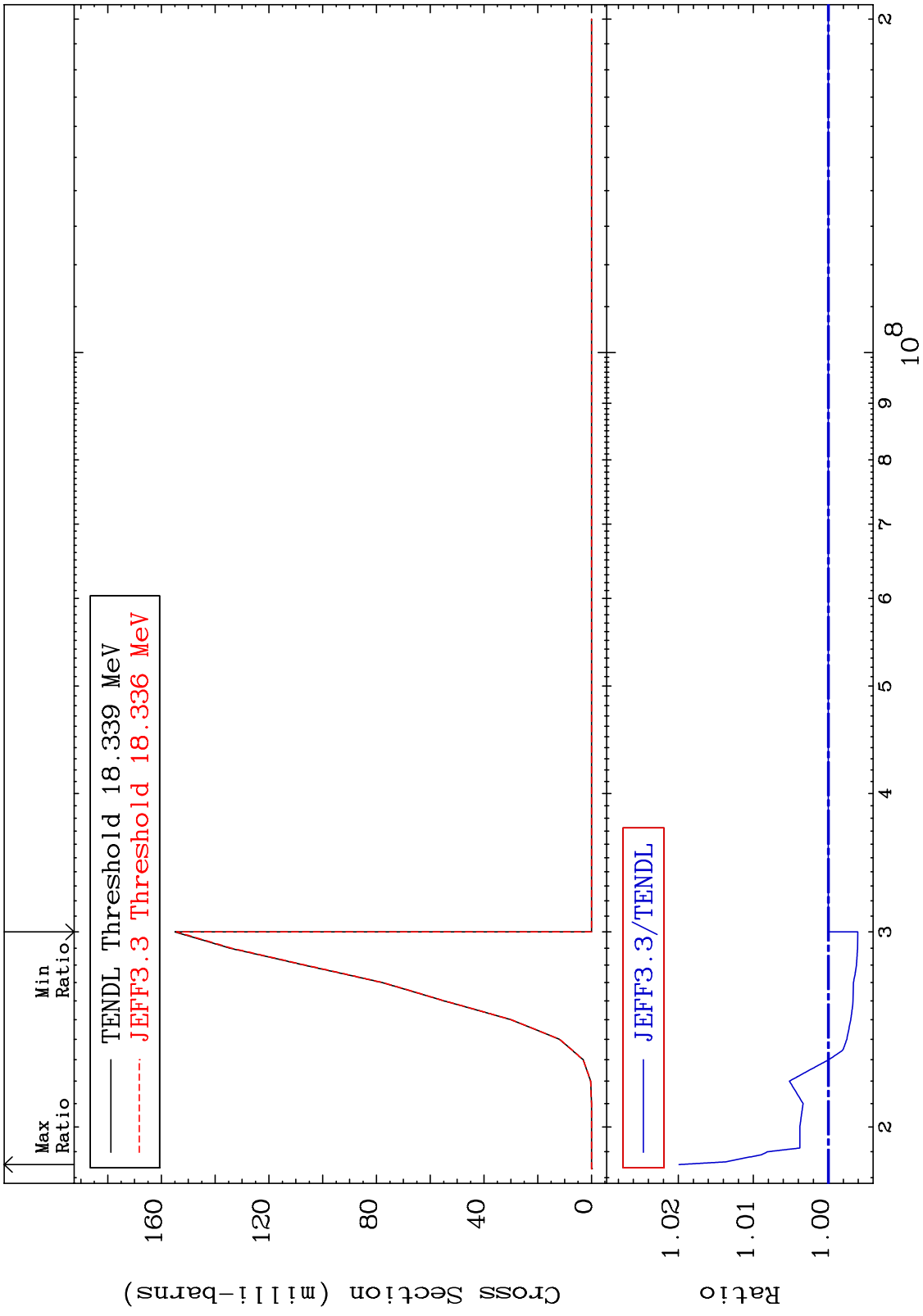


MAT 4437 (n,4n) Cross Section 44-Ru-100 -1.103 To 0.000 %

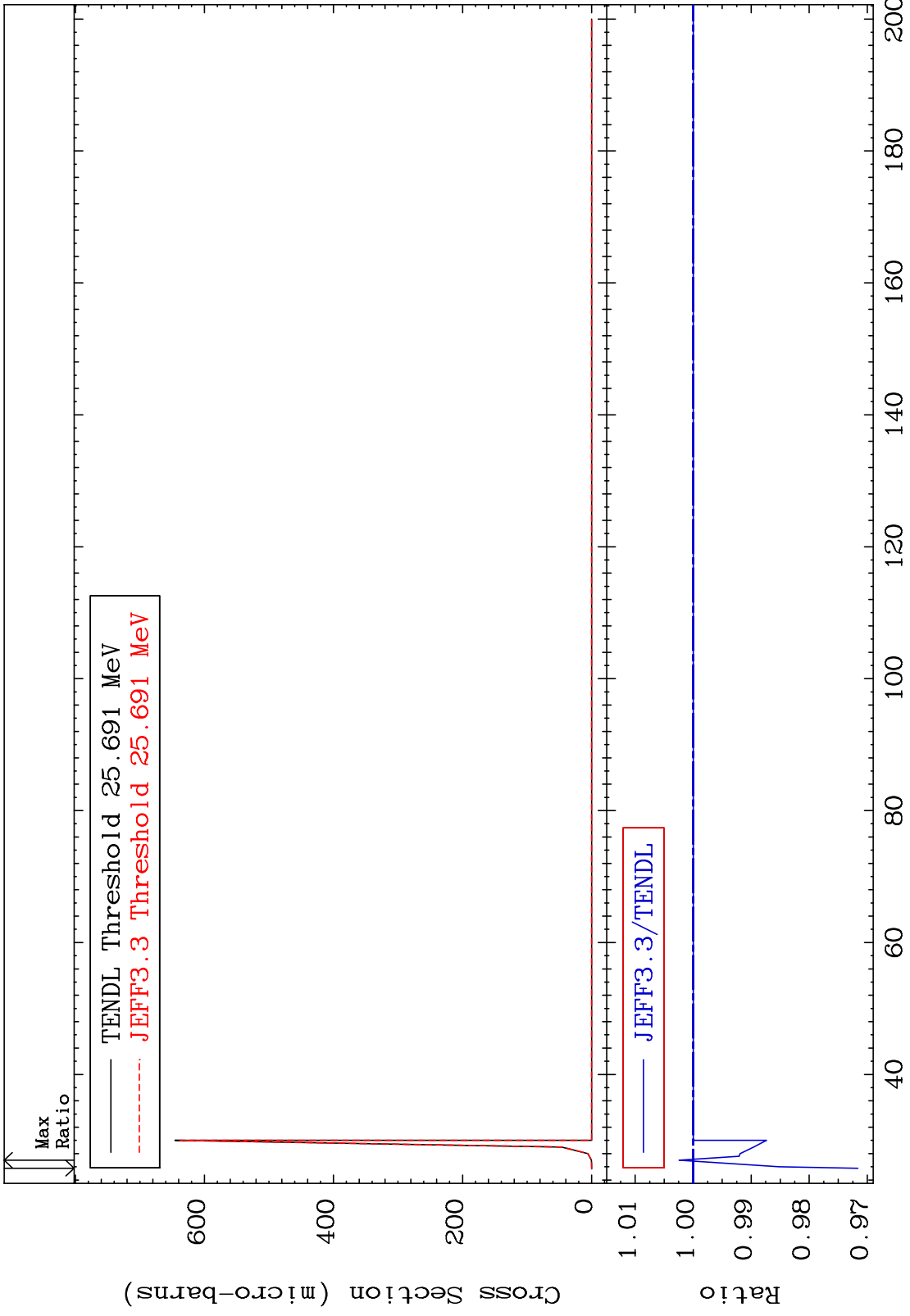




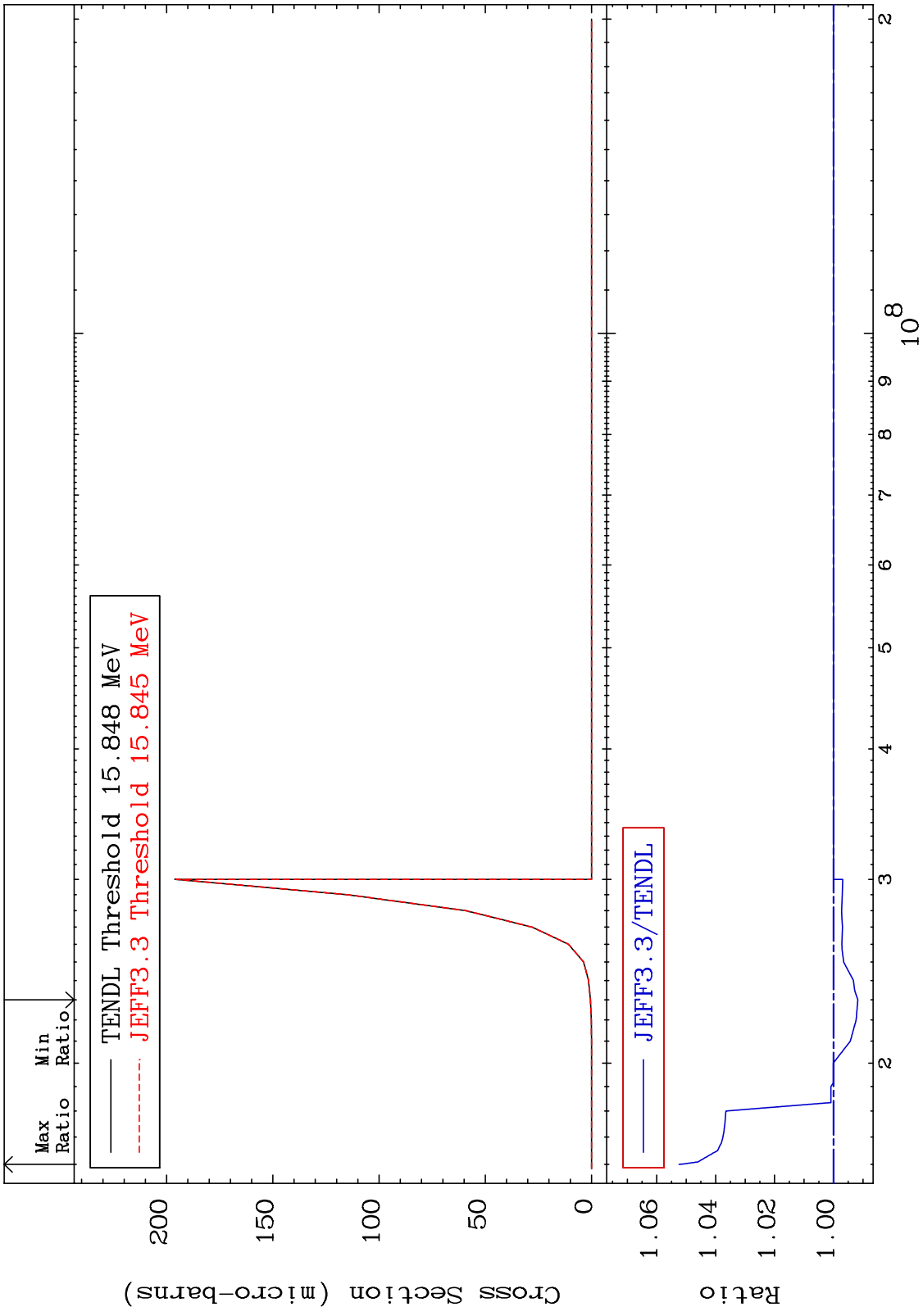
MAT 4437 (n,2n) p 44-Ru-100  
 Cross Section -0.394 To 1.991 %



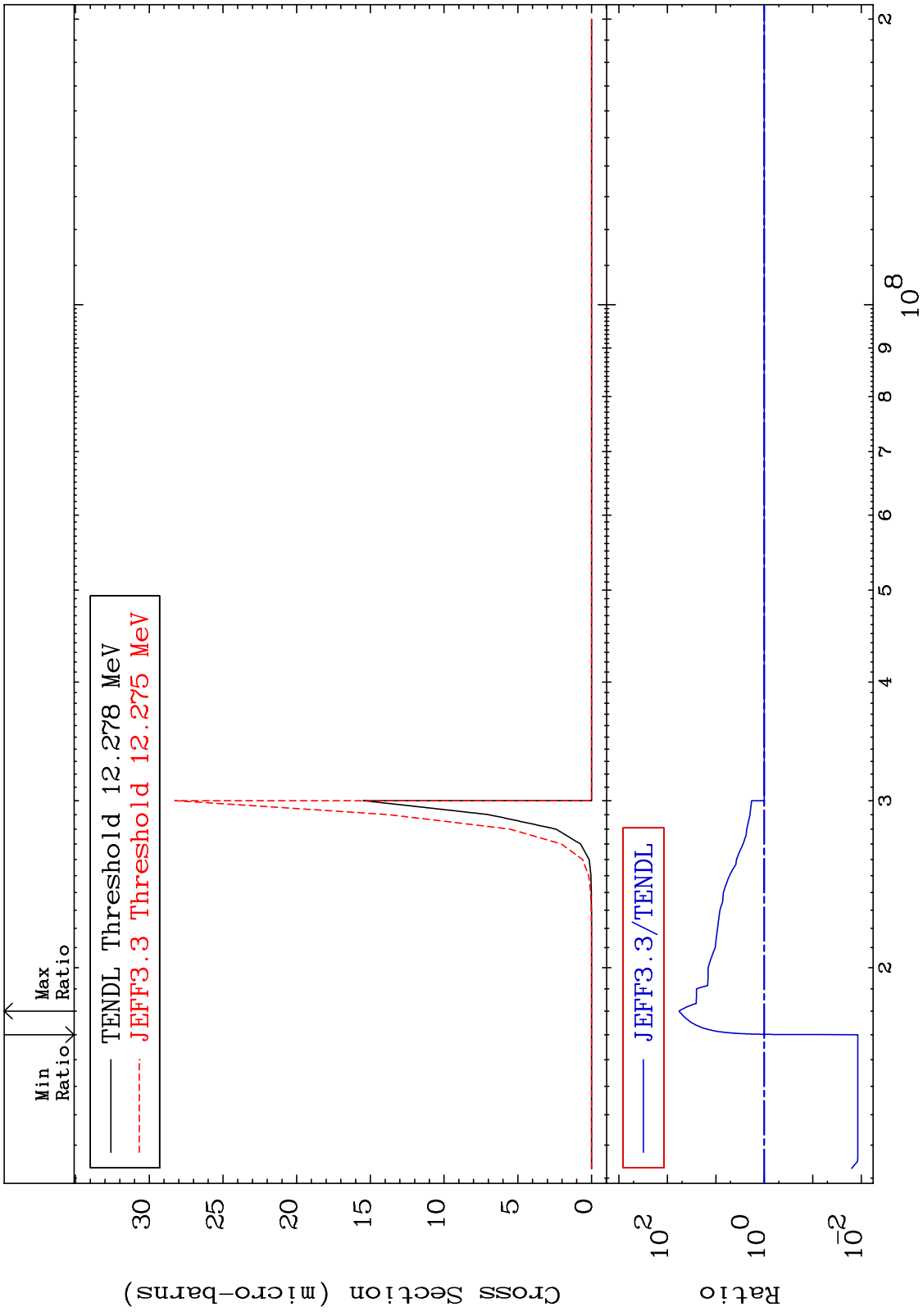
MAT 4437 (n,3n) p 44-Ru-100  
Cross Section -2.839 To 0.242 %



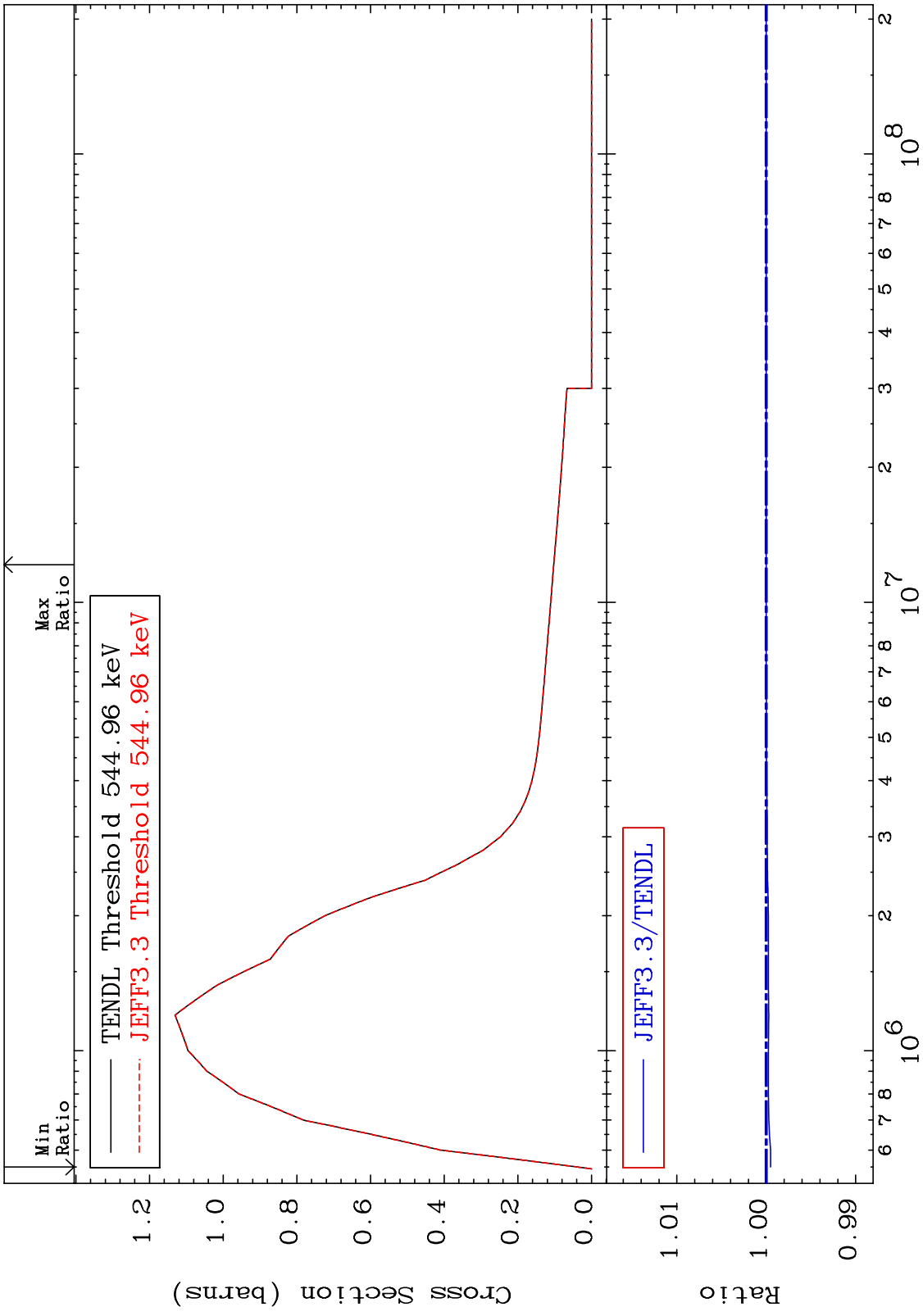
MAT 4437 (n,2n) p 44-Ru-100  
 Cross Section -0.826 To 5.243 %



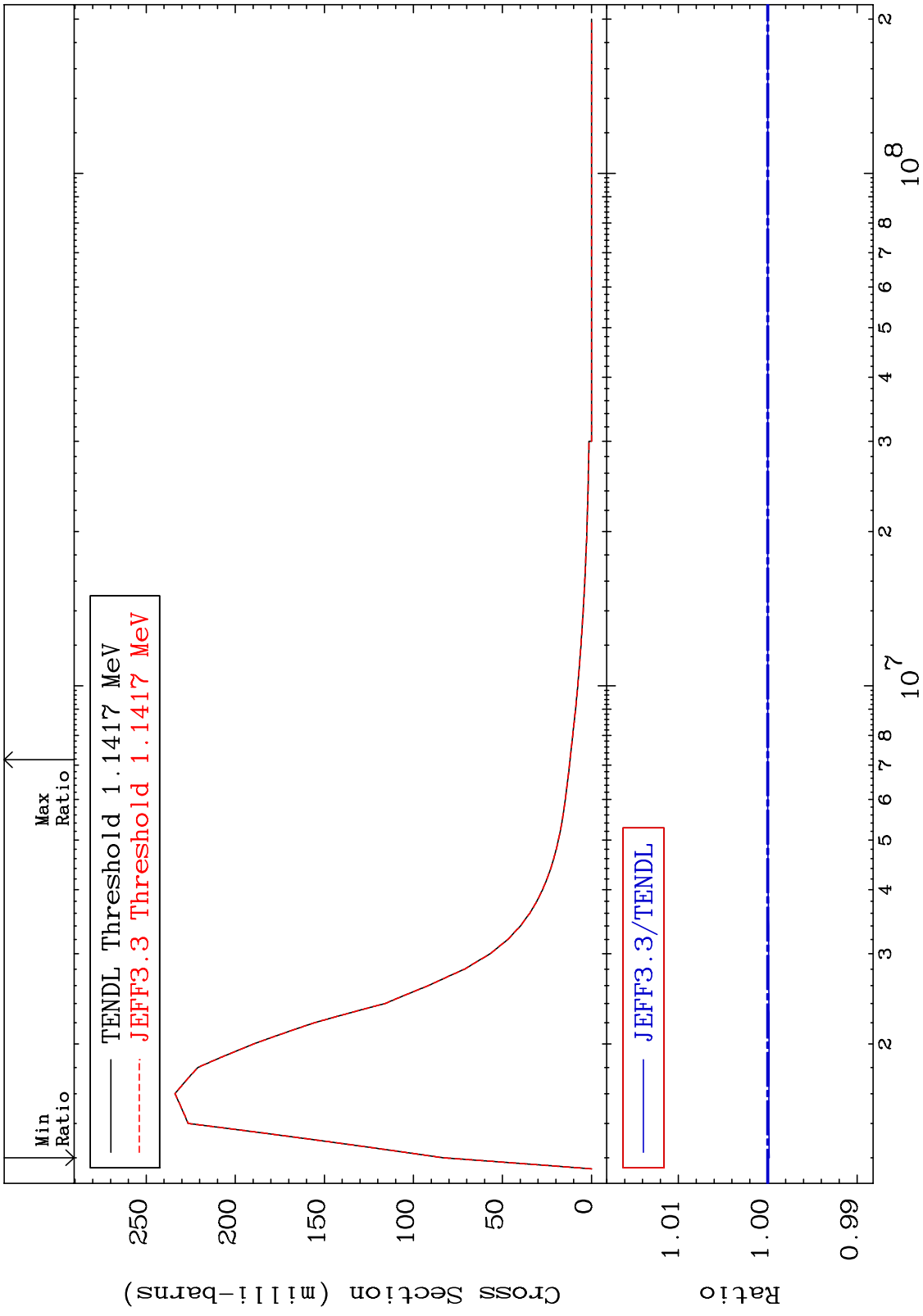
MAT 4437 (n,n') p α 44-Ru-100  
 Cross Section -98.82 To 5635. %



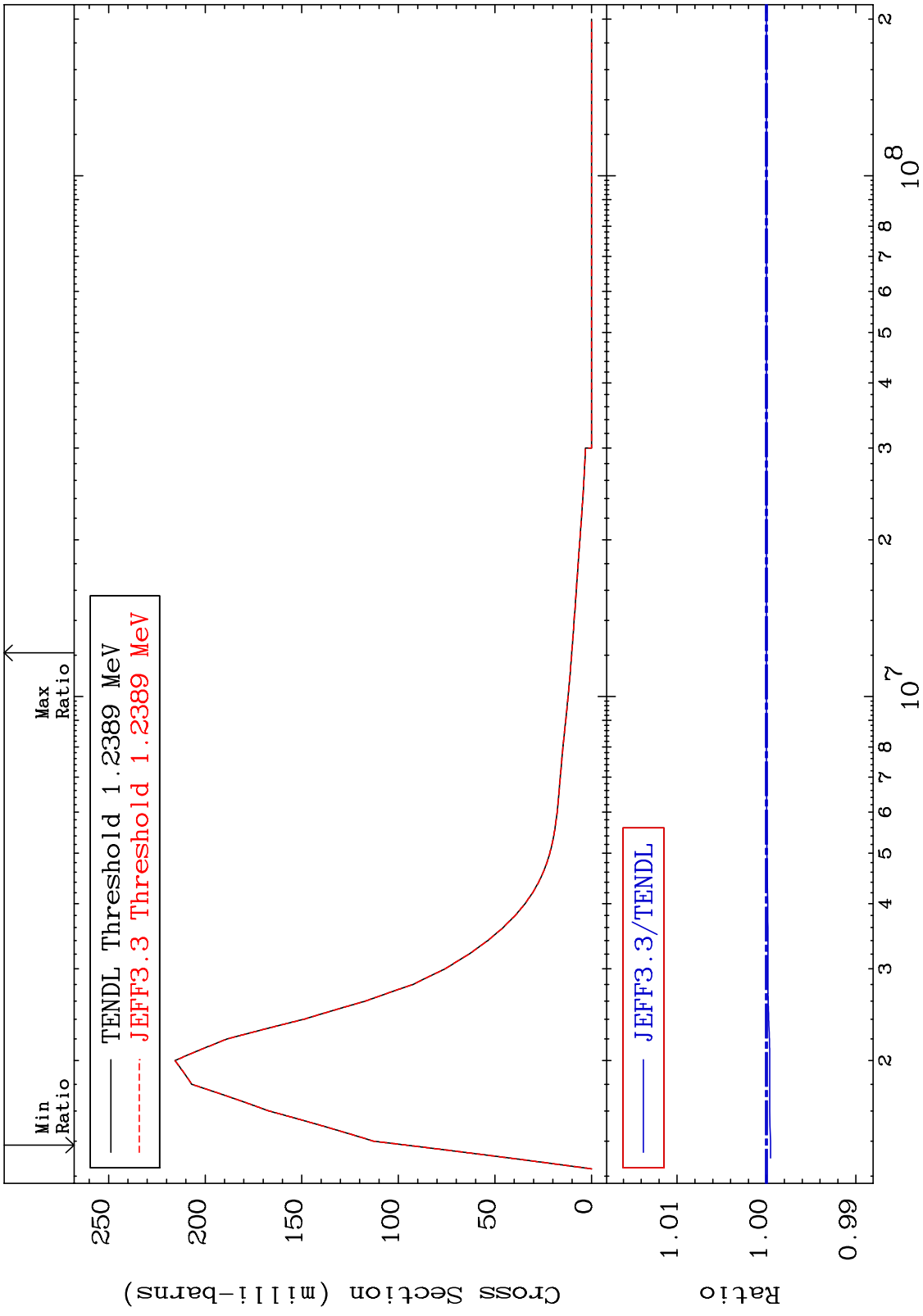
MAT 4437      MT= 51 (n,n') Level      44-Ru-100  
 Cross Section      -0.048 To 0.000 %



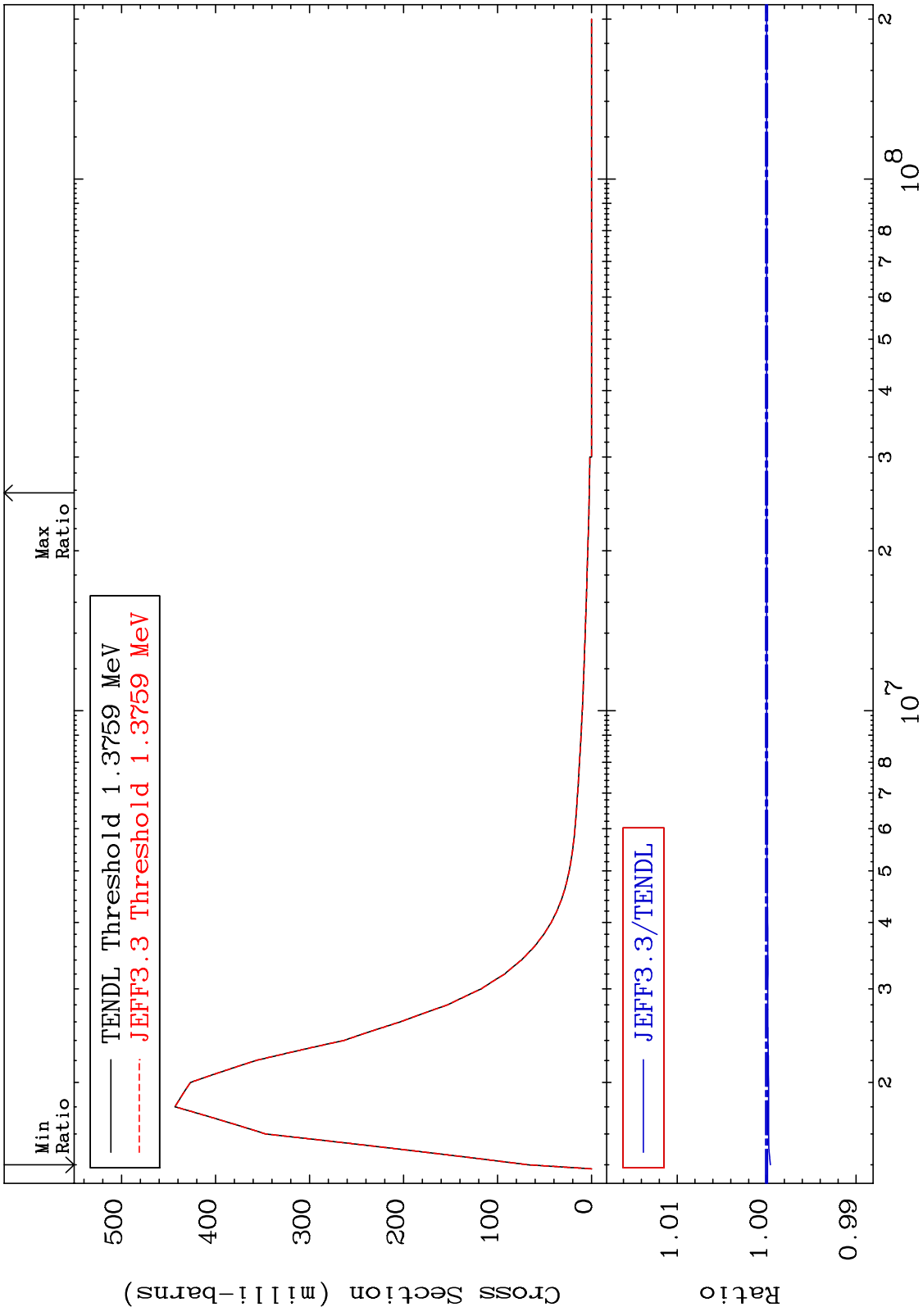
MAT 4437 MT= 52 (n,n') Level Cross Section 44-Ru-100  
 -0.016 To 0.000 %



MAT 4437 MT= 53 (n, n') Level Cross Section 44-Ru-100 -0.045 To 0.000 %



MAT 4437      MT= 54 (n,n') Level Cross Section      44-Ru-100  
 -0.043 To 0.000 %

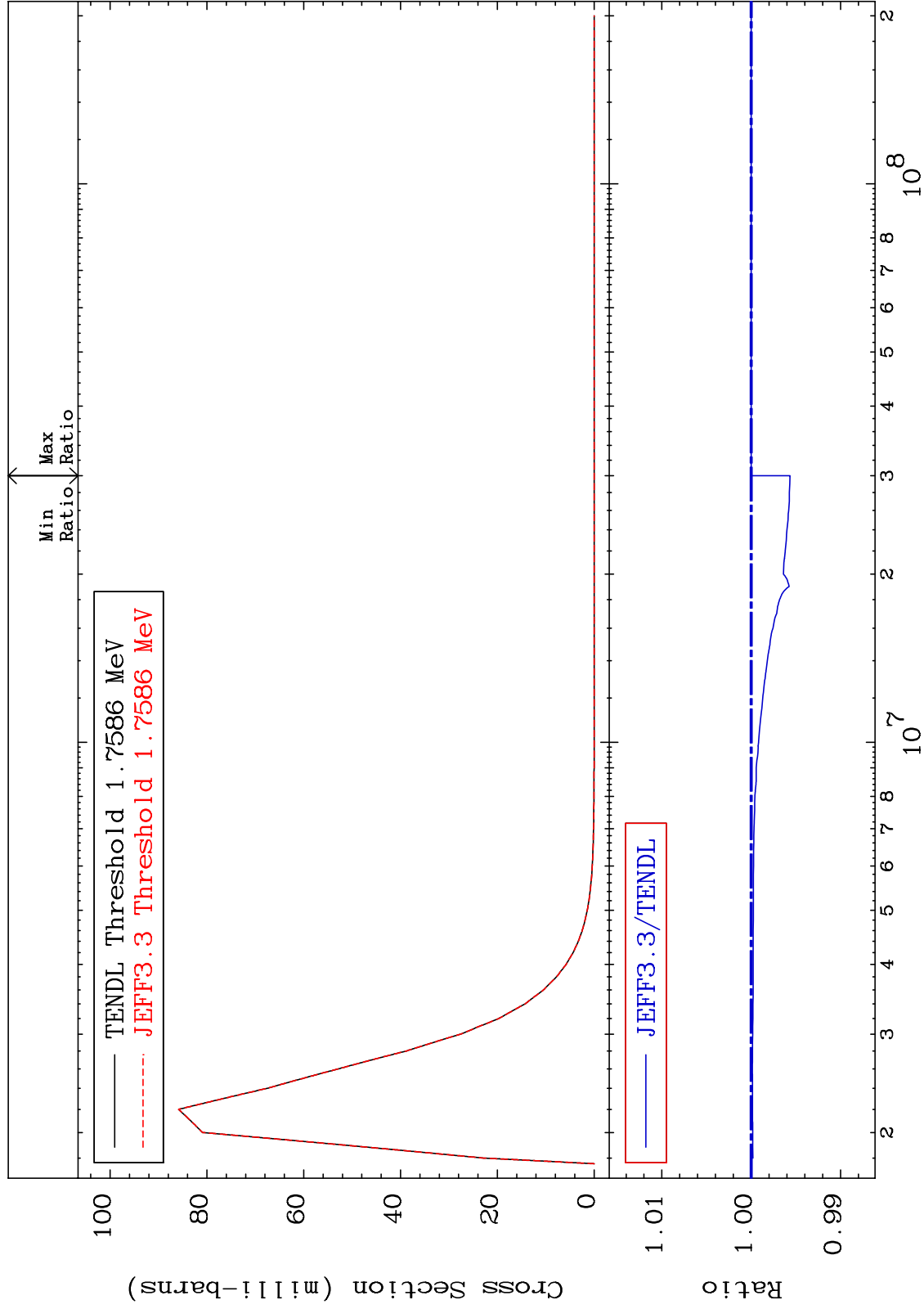




MAT 4437

MT= 55 (n,n') Level  
Cross Section

44-Ru-100  
-0.434 To 0.000 %

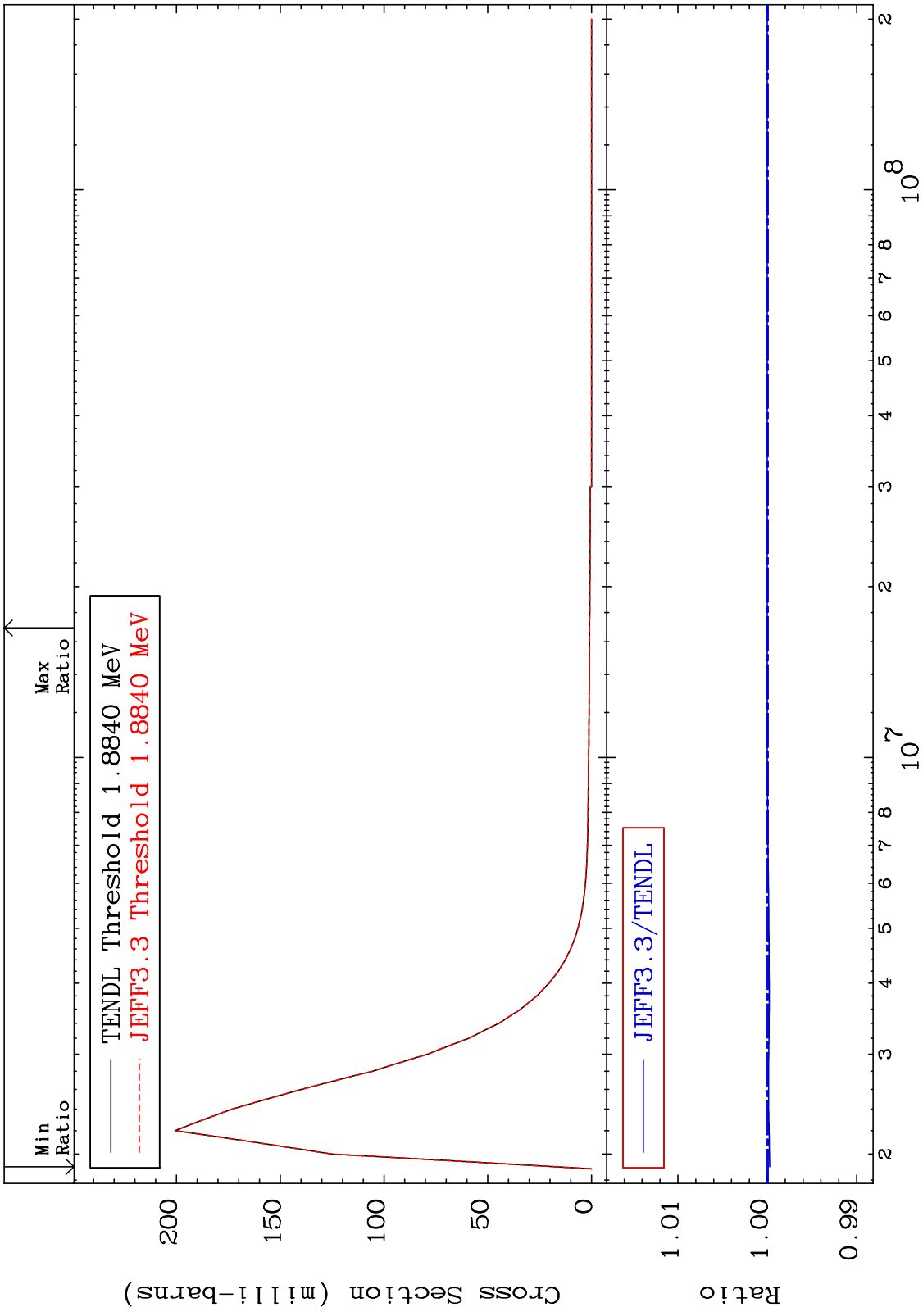


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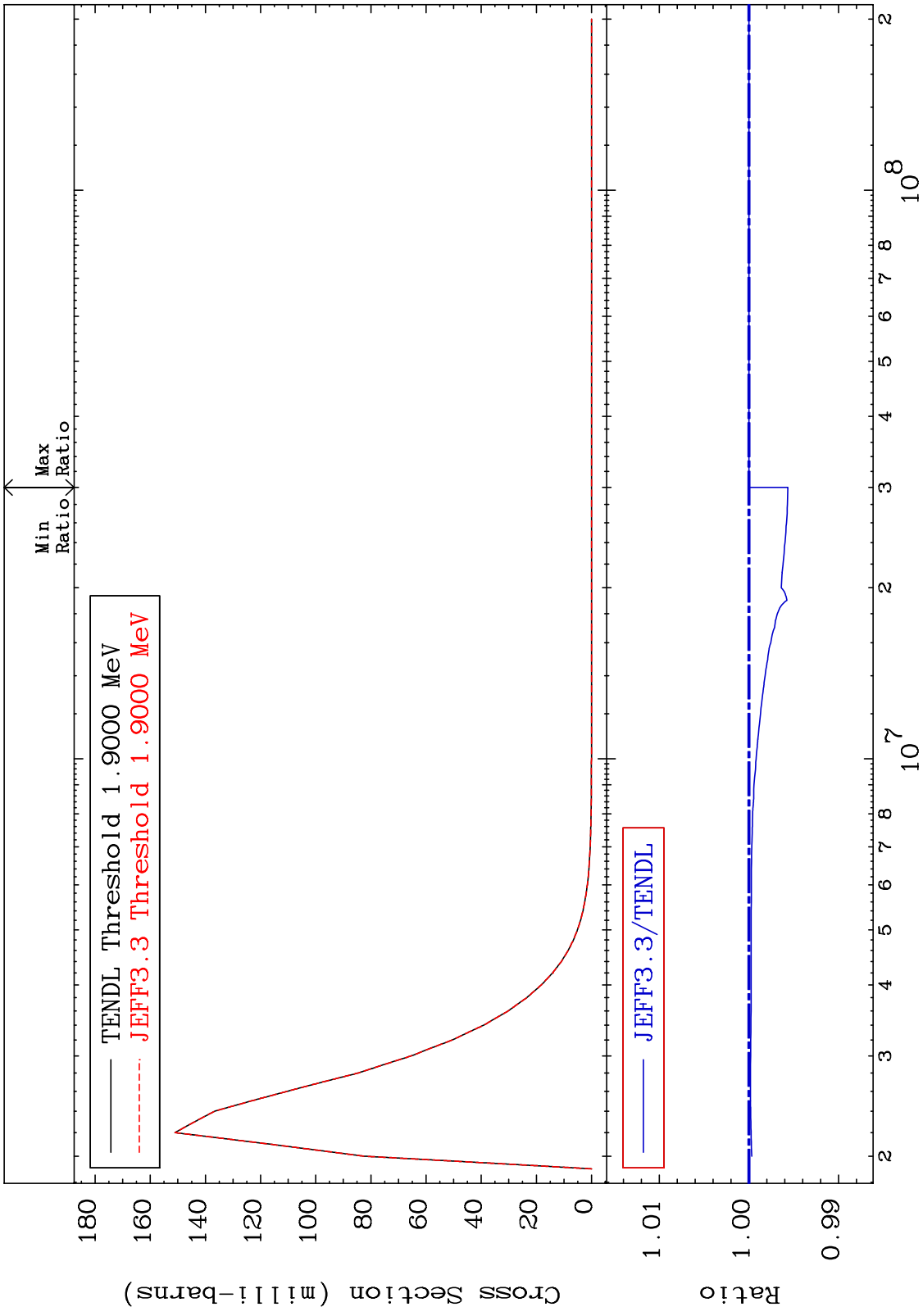
Incident Energy (eV)

44-Ru-100

MAT 4437 MT= 56 (n,n') Level Cross Section 44-Ru-100  
 -0.026 To 0.000 %



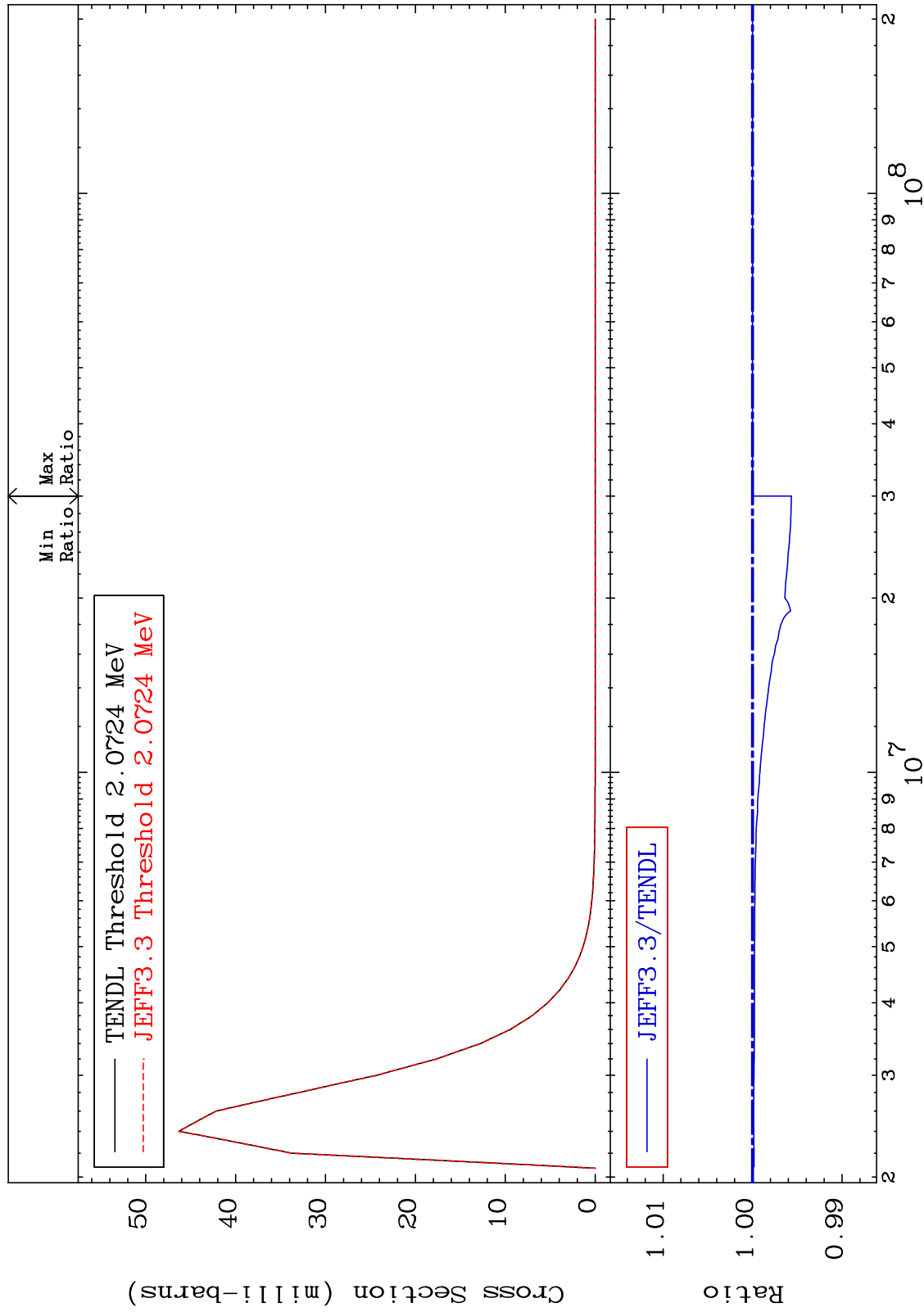
MAT 4437 MT= 57 (n,n') Level Cross Section 44-Ru-100  
 -0.435 To 0.000 %



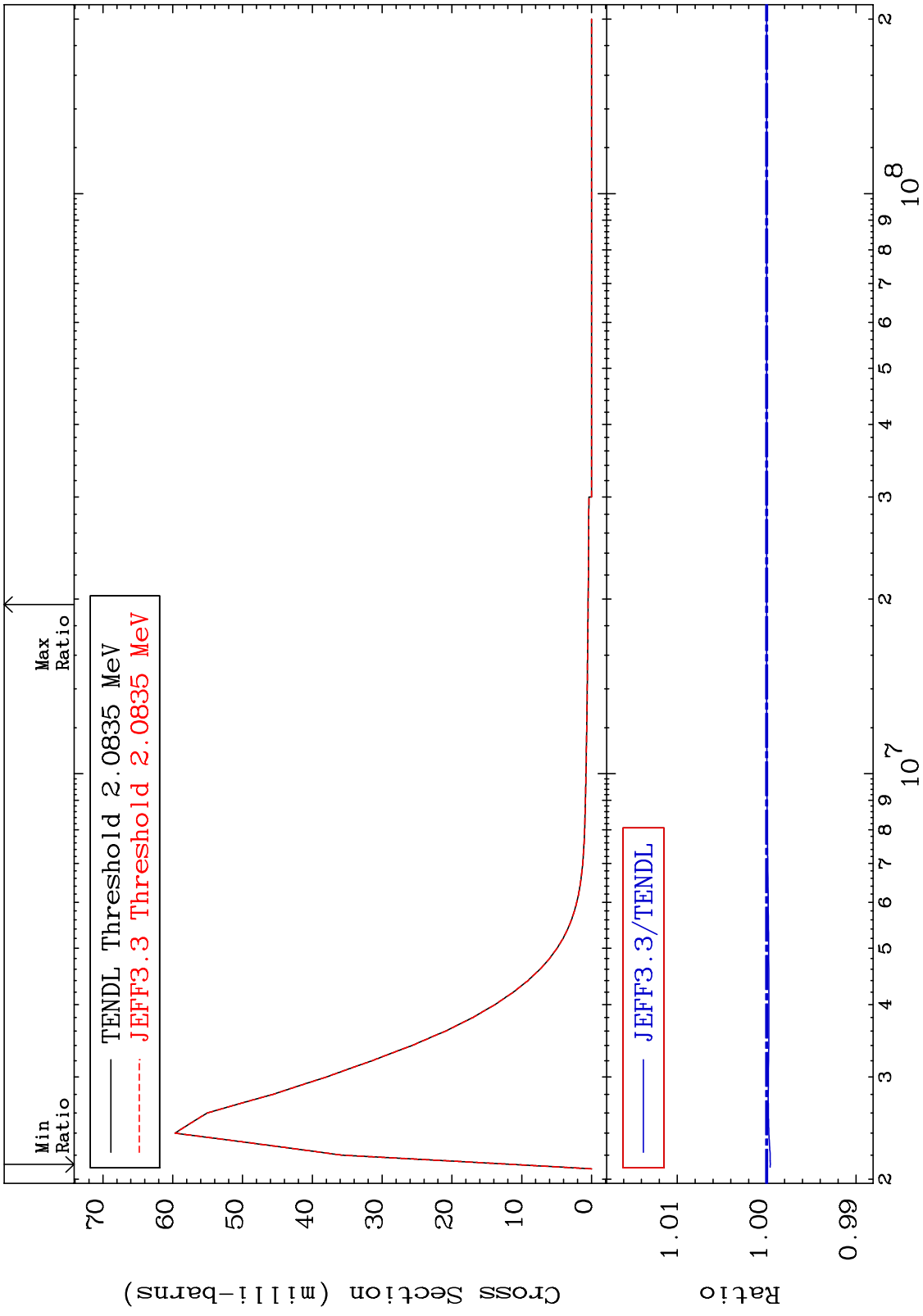
MAT 4437

MT= 58 (n,n') Level  
Cross Section

44-Ru-100  
-0.434 To 0.000 %



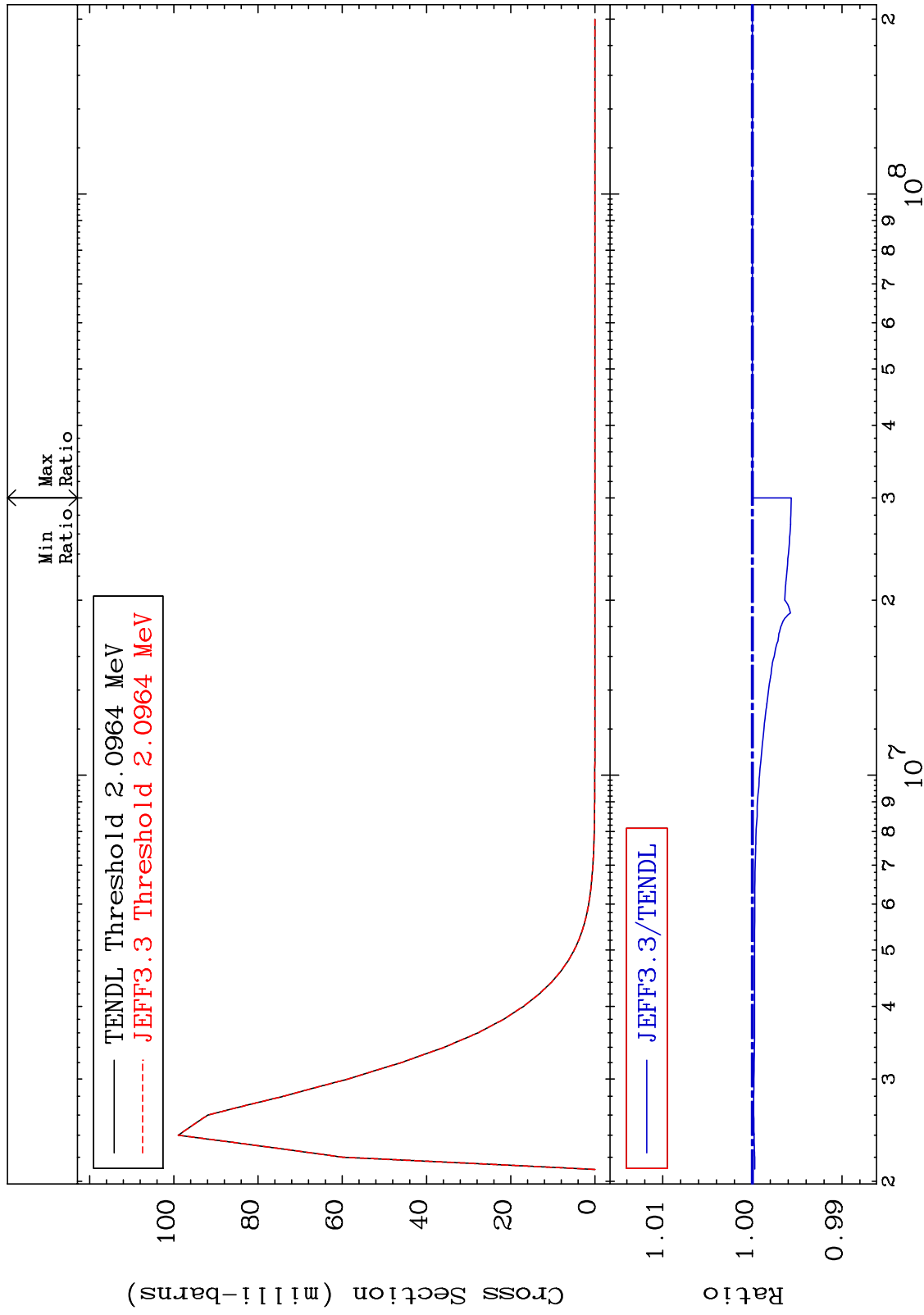
MAT 4437      MT= 59 (n,n') Level Cross Section      44-Ru-100  
 -0.040 To 0.000 %



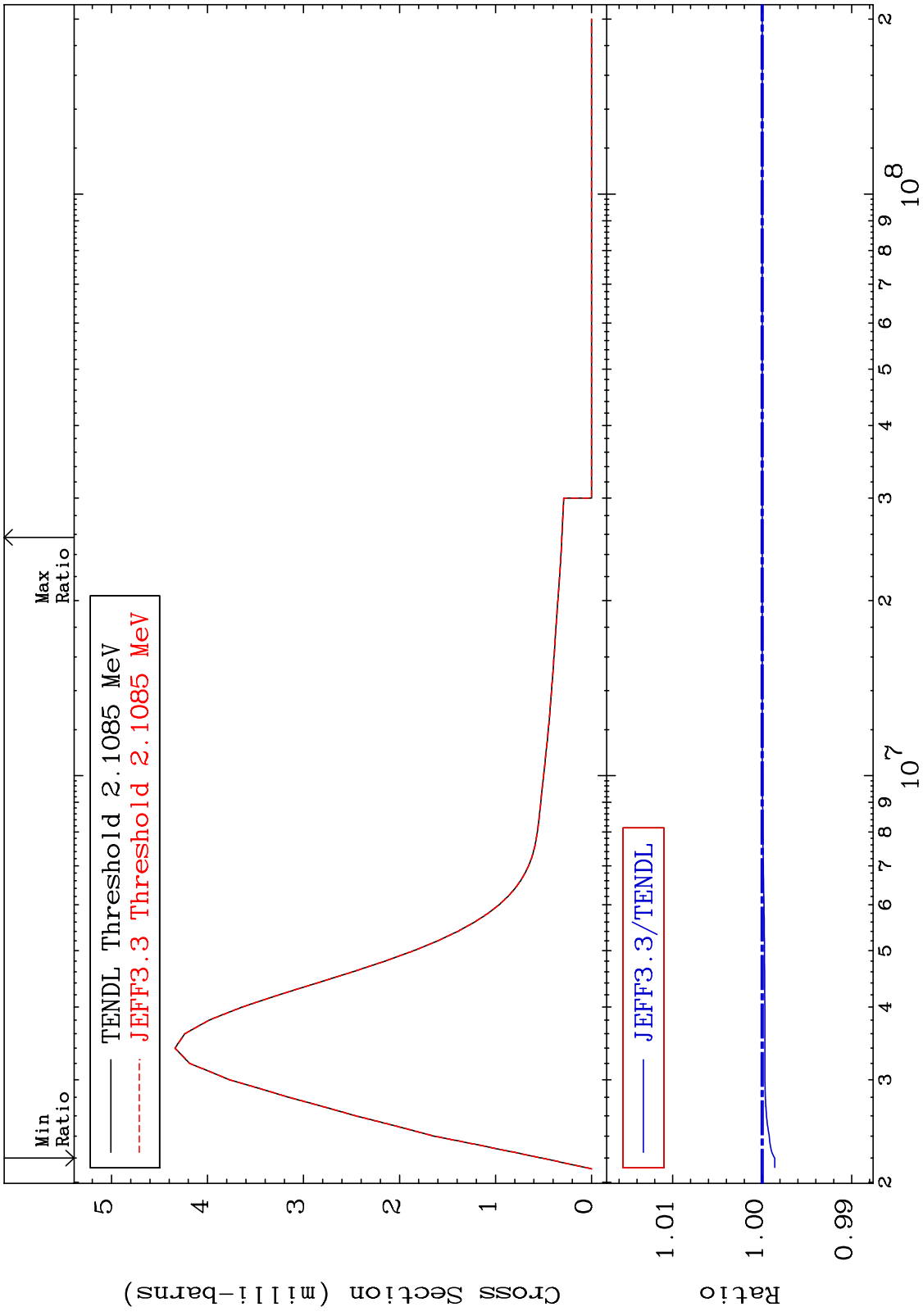
MAT 4437

MT= 60 (n,n') Level  
Cross Section

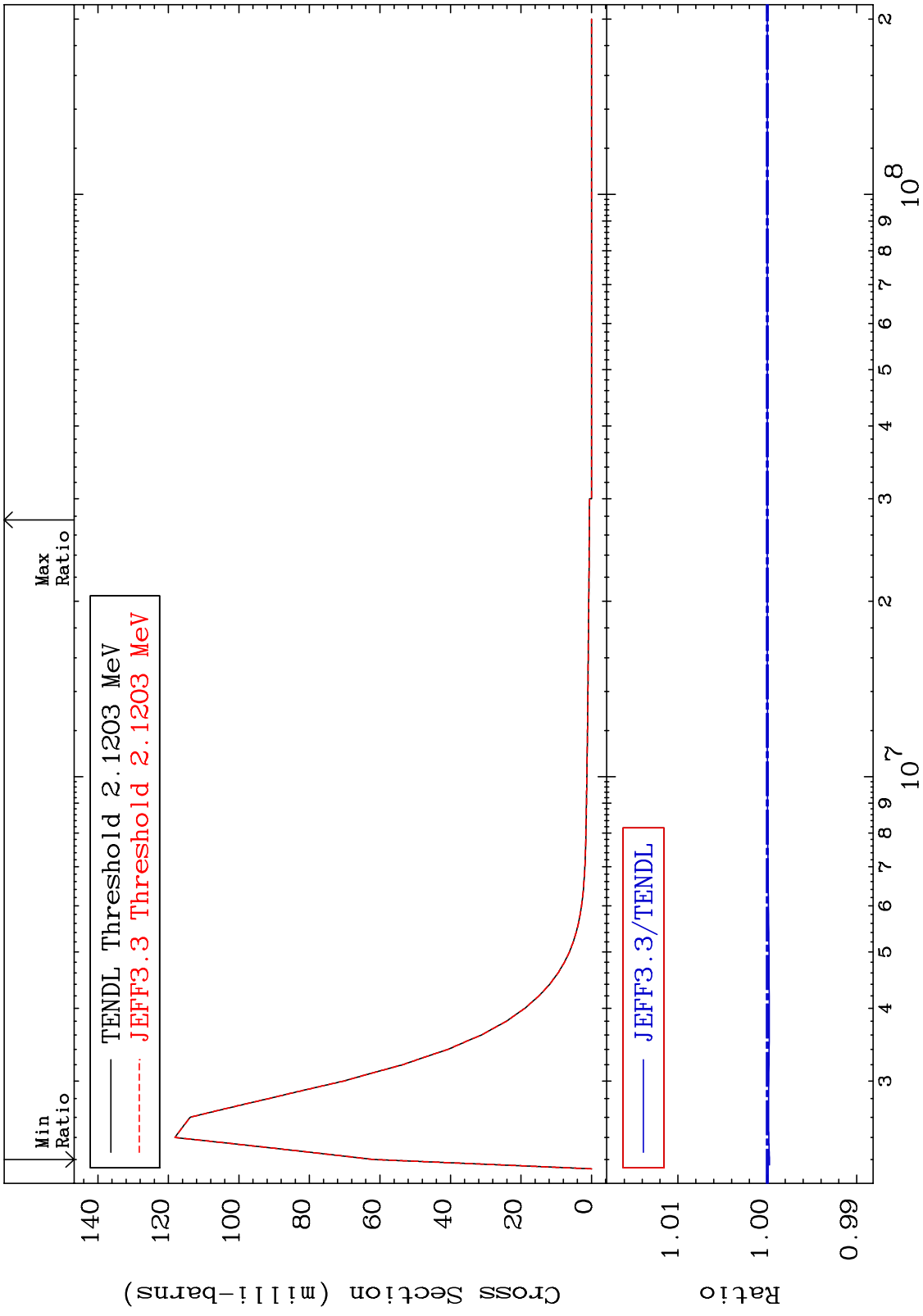
44-Ru-100  
-0.434 To 0.000 %



MAT 4437 MT= 61 (n,n') Level Cross Section 44-Ru-100  
 -0.140 To 0.000 %

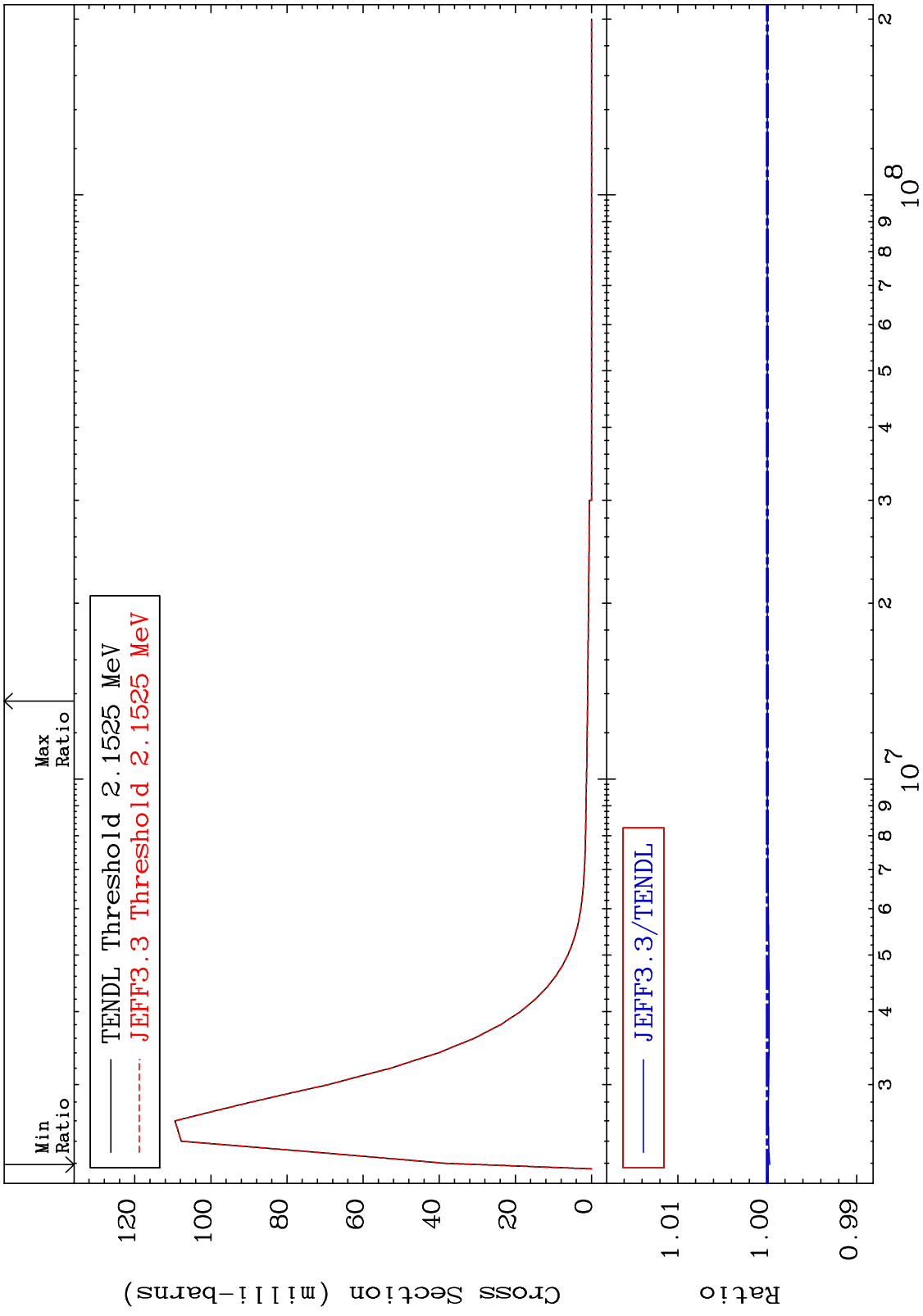


MAT 4437 MT= 62 (n, n') Level Cross Section 44-Ru-100  
 -0.025 To 0.000 %

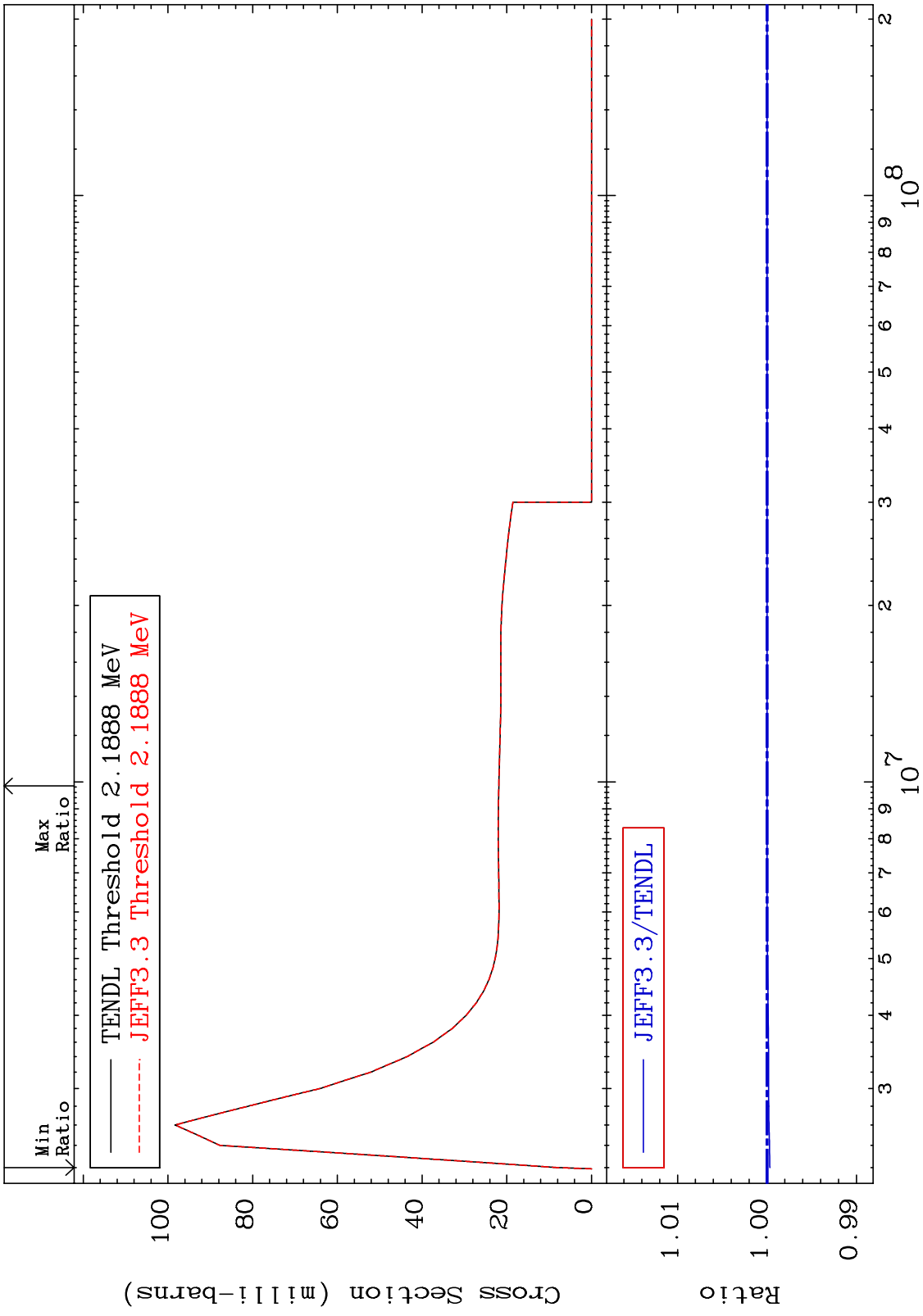




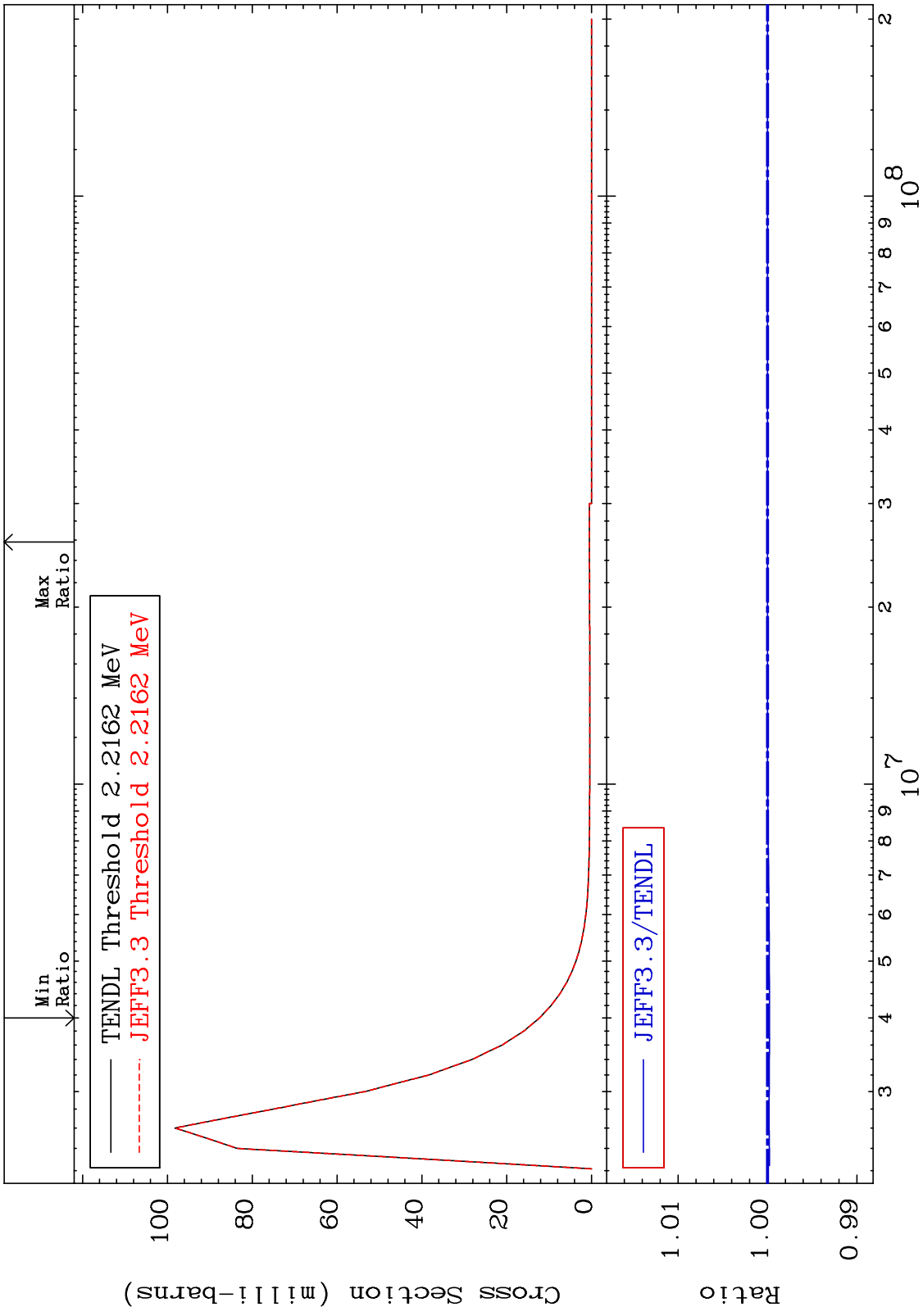
MAT 4437 MT= 63 (n,n') Level Cross Section 44-Ru-100  
 -0.028 To 0.000 %



MAT 4437 MT= 64 (n,n') Level Cross Section 44-Ru-100  
 -0.032 To 0.000 %



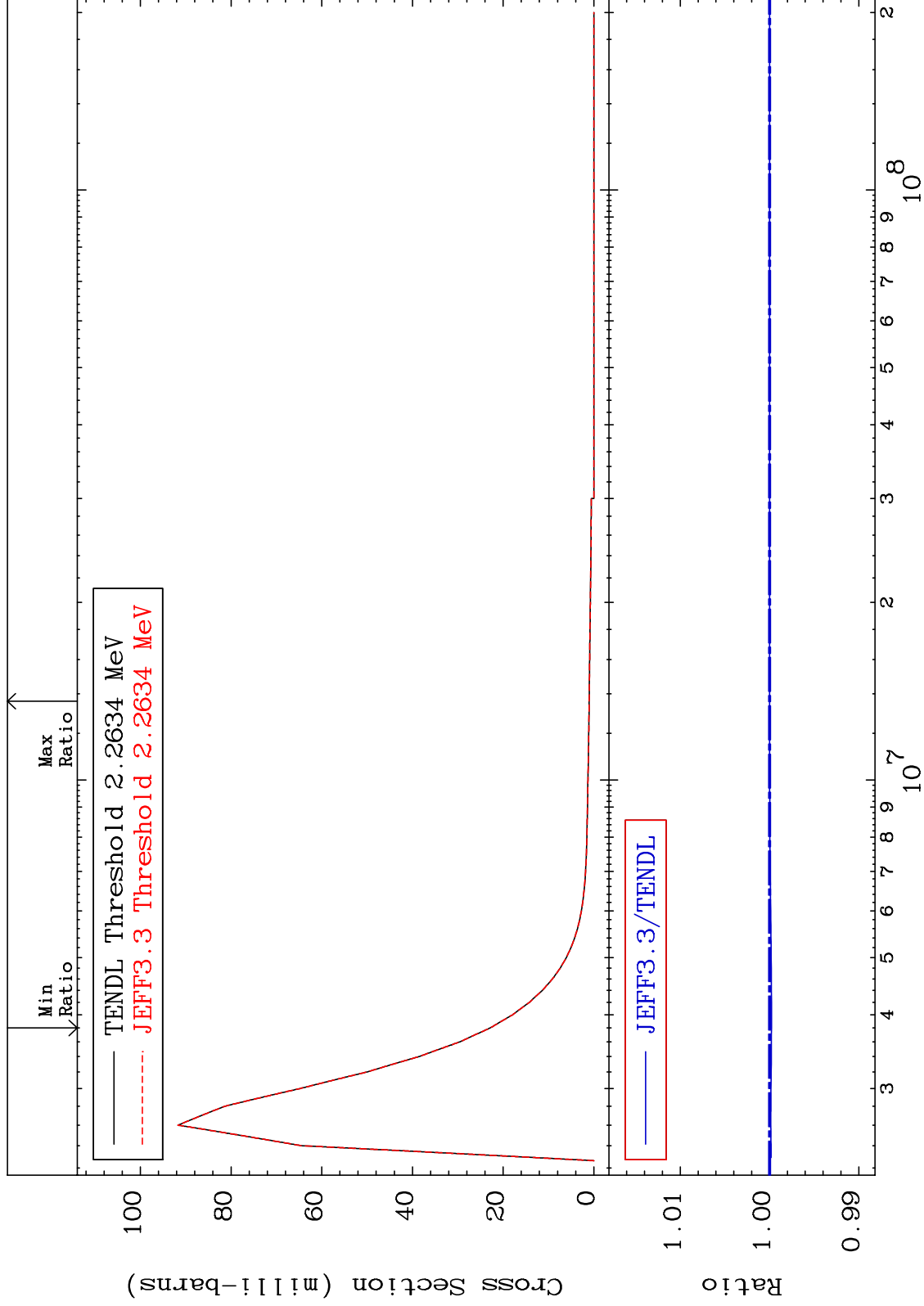
MAT 4437 MT= 65 (n, n') Level Cross Section 44-Ru-100  
 -0.022 To 0.000 %



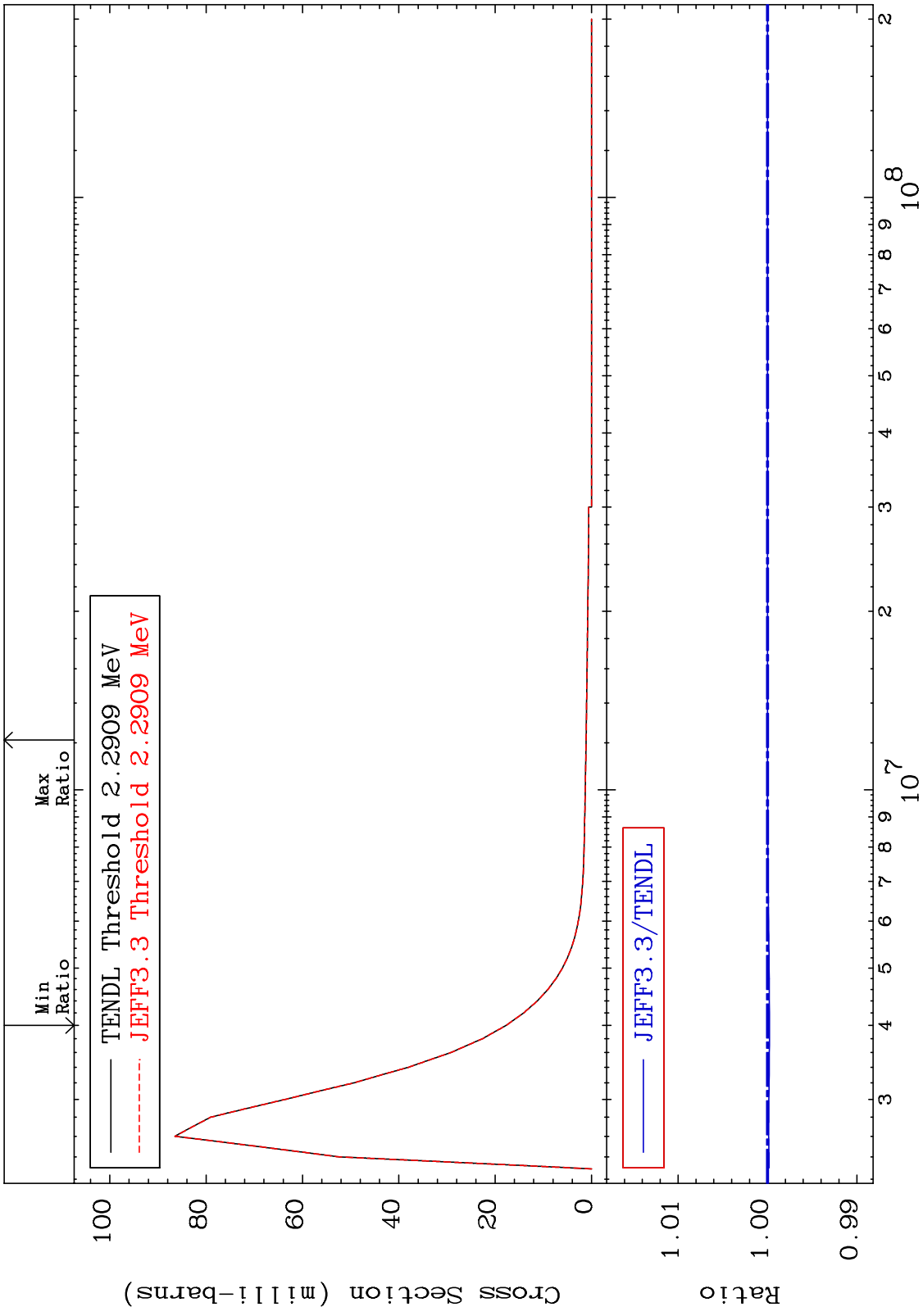
MAT 4437

MT= 66 (n,n') Level  
Cross Section

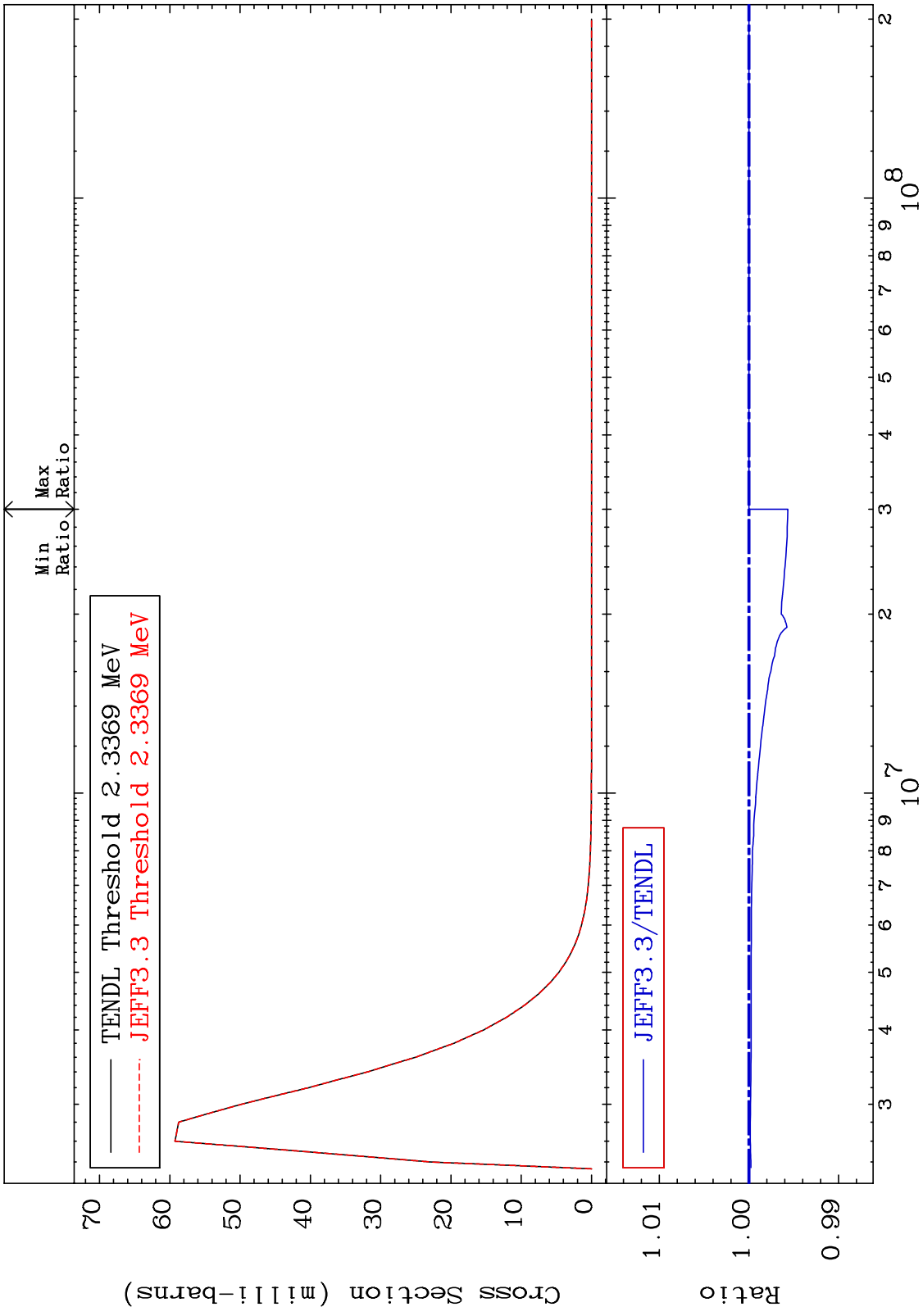
44-Ru-100  
-0.021 To 0.000 %



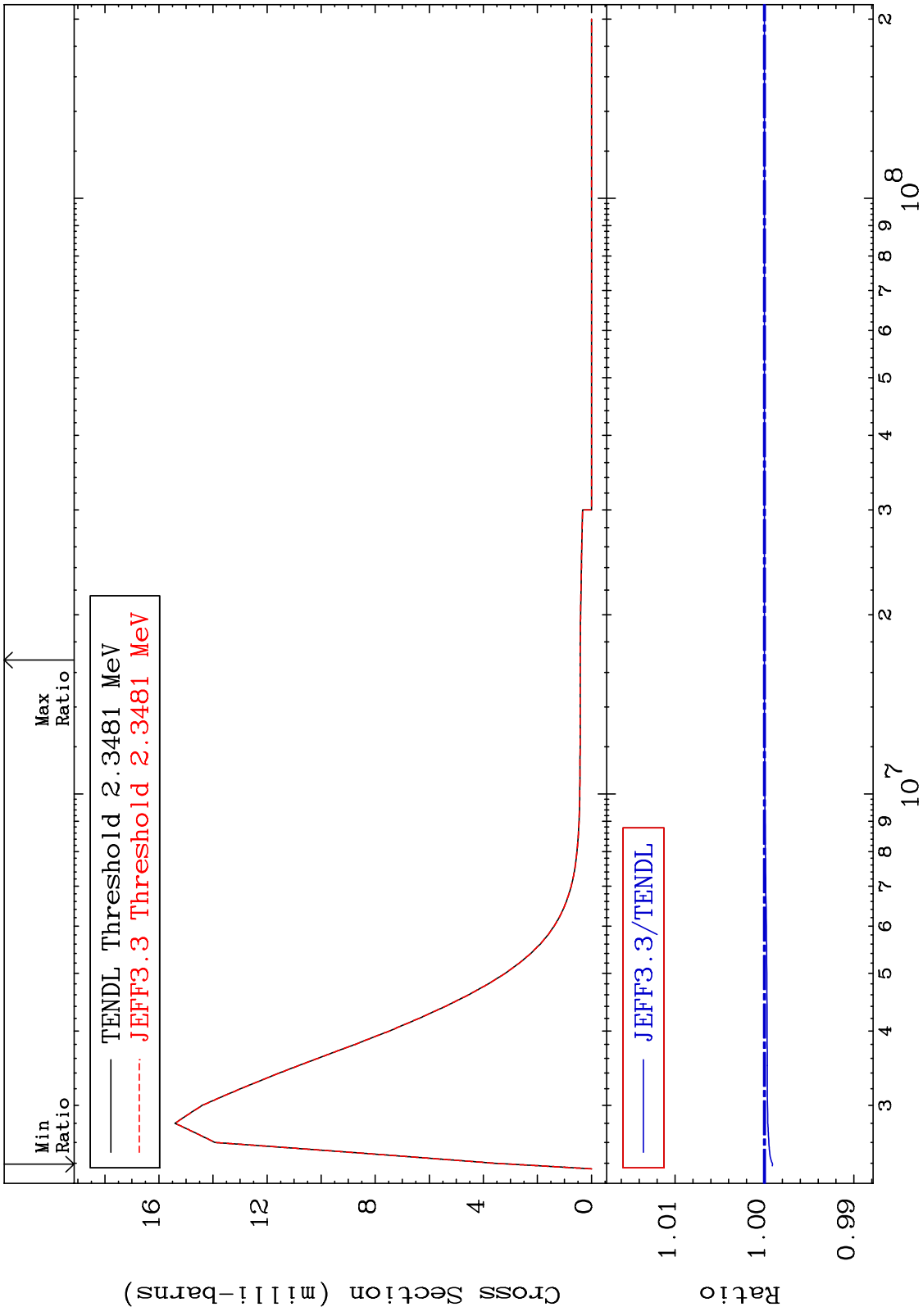
MAT 4437 MT= 67 (n,n') Level Cross Section 44-Ru-100  
 -0.021 To 0.000 %



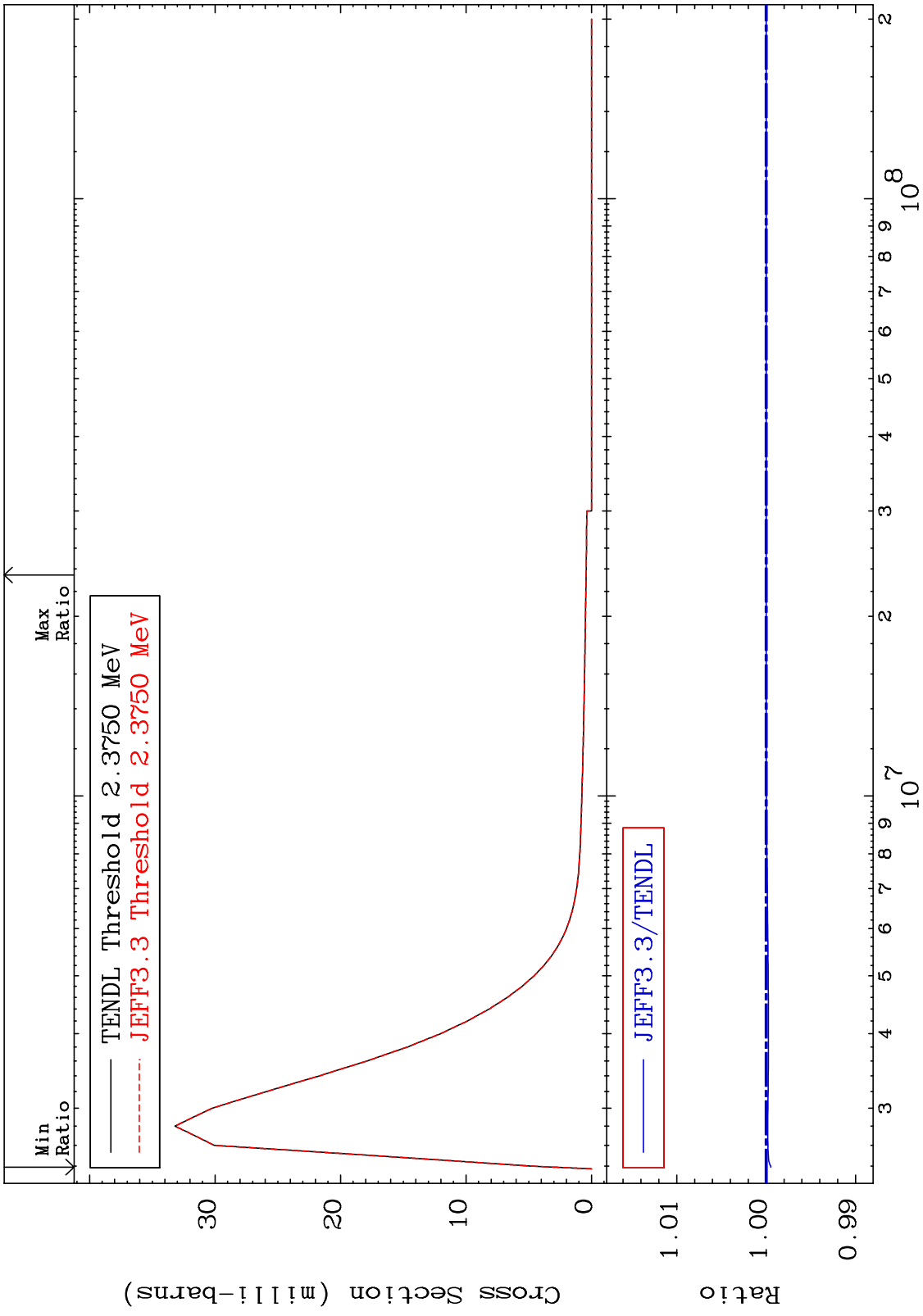
MAT 4437 MT= 68 (n,n') Level Cross Section 44-Ru-100  
 -0.434 To 0.000 %



MAT 4437 MT= 69 (n,n') Level Cross Section 44-Ru-100  
 -0.089 To 0.000 %



MAT 4437 MT= 70 (n,n') Level Cross Section 44-Ru-100  
 -0.051 To 0.000 %

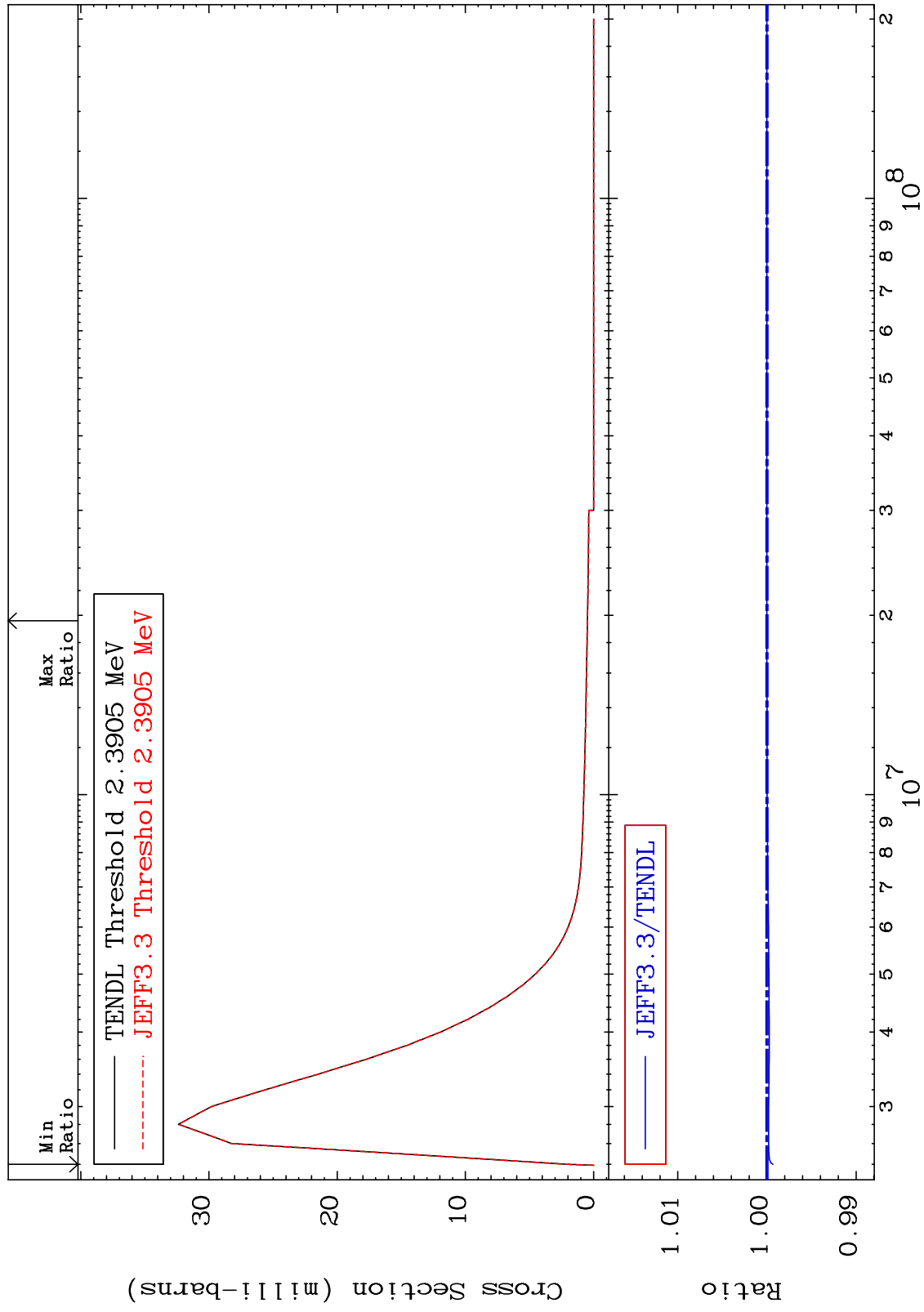




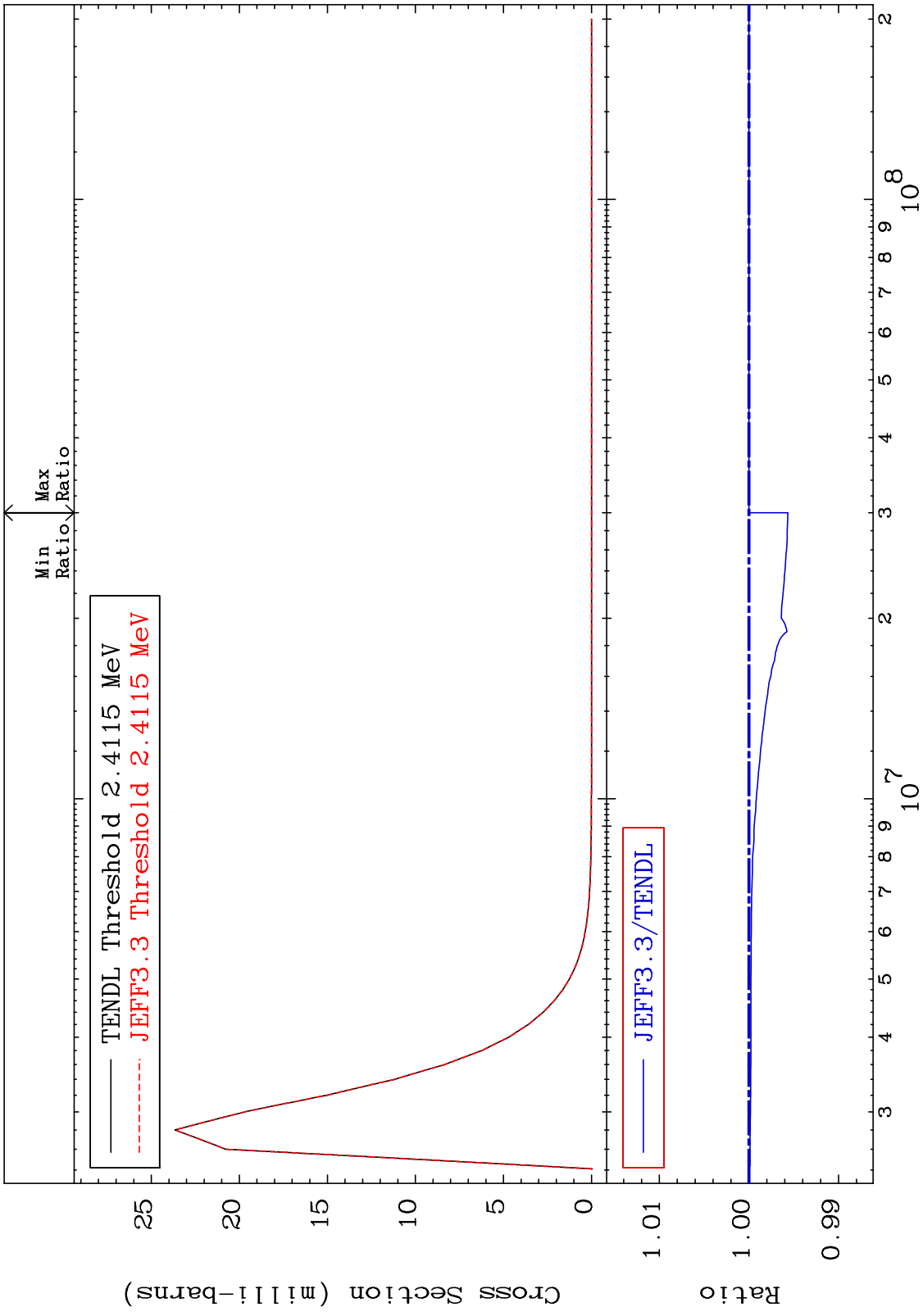
MAT 4437

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

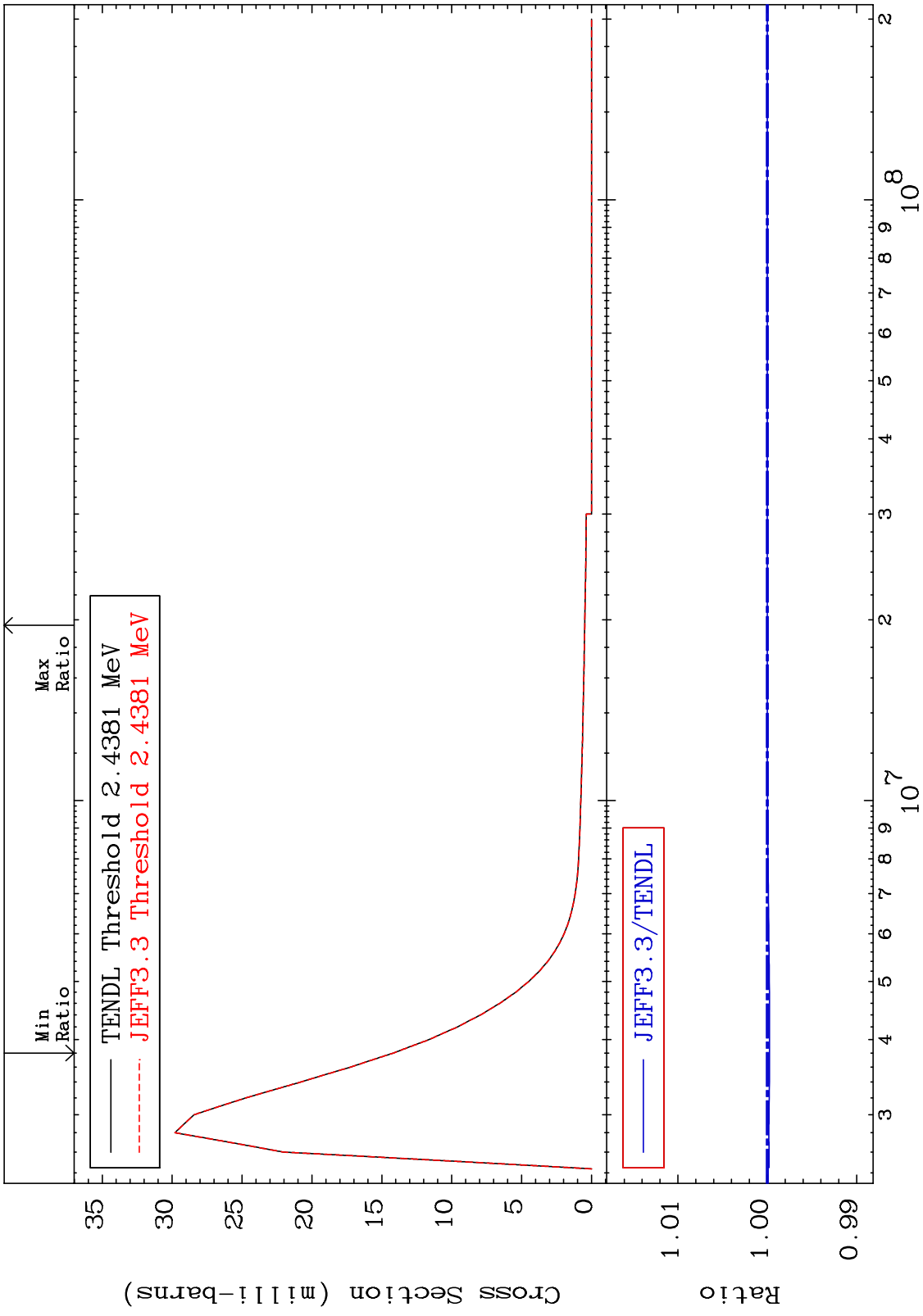
44-Ru-100  
-0.068 To 0.000 %



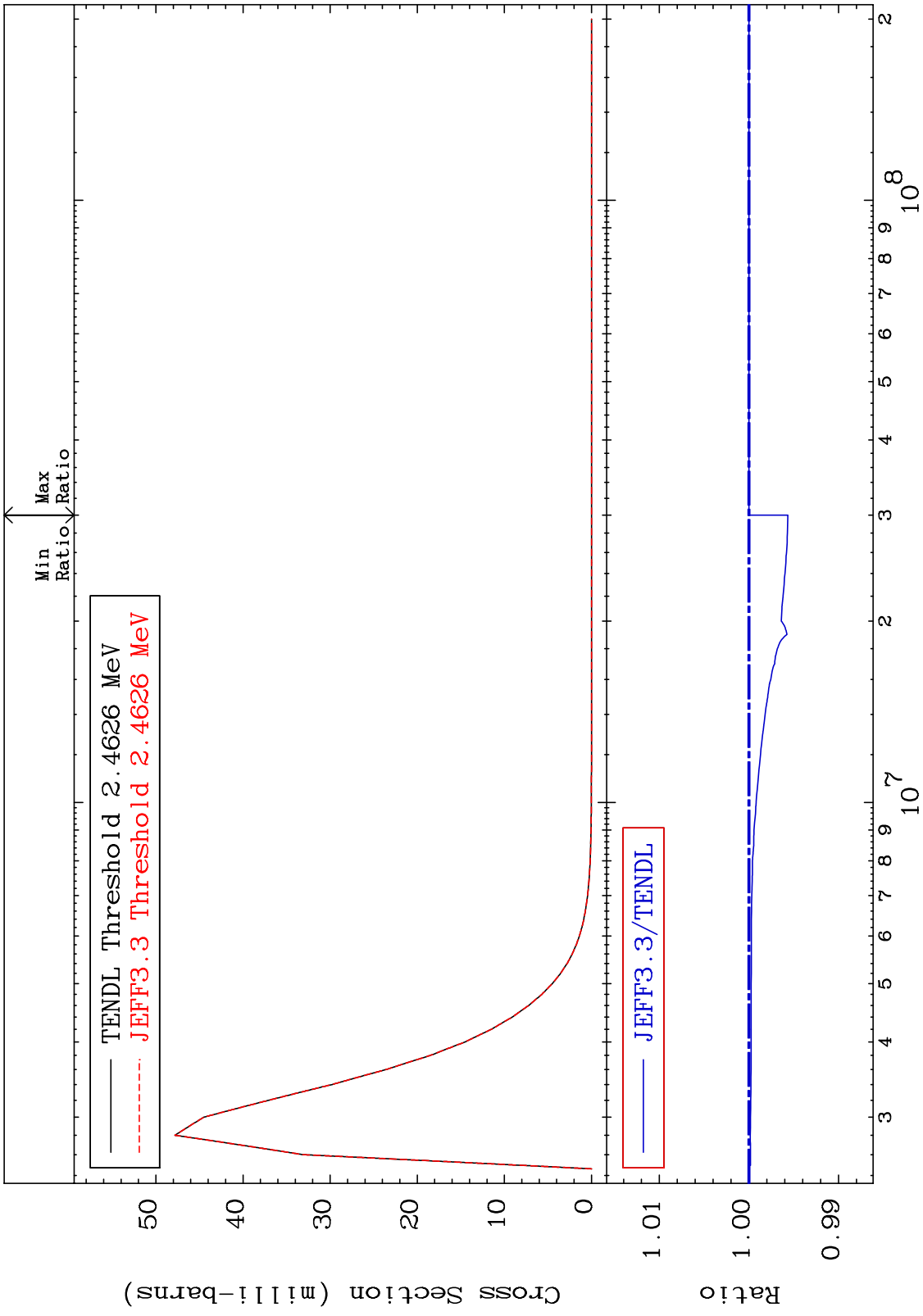
MAT 4437 MT= 72 (n,n') Level Cross Section 44-Ru-100  
 -0.434 To 0.000 %



MAT 4437 MT= 73 (n,n') Level Cross Section 44-Ru-100  
 -0.025 To 0.000 %

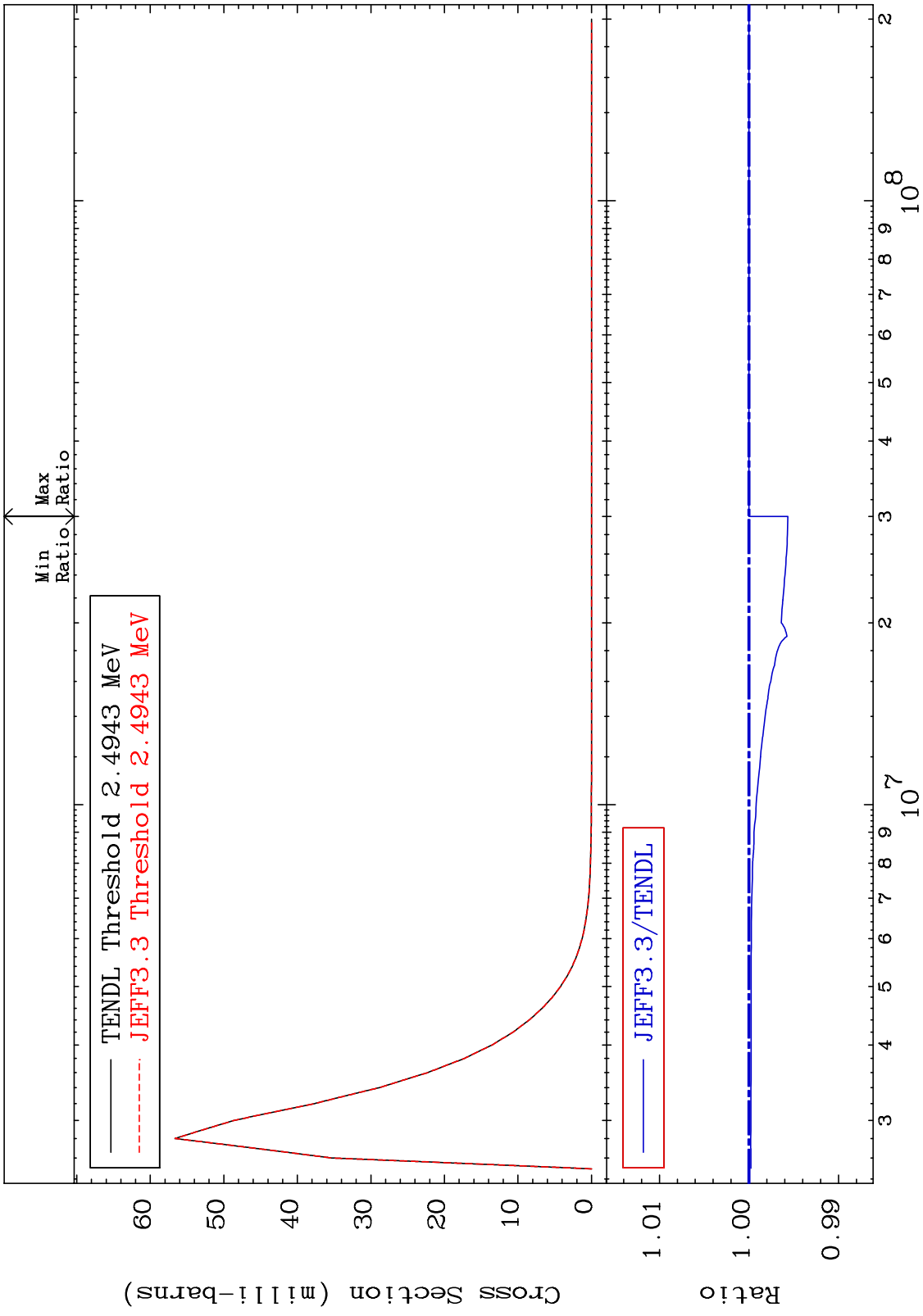


MAT 4437 MT= 74 (n, n') Level Cross Section 44-Ru-100  
 -0.434 To 0.000 %



43 44-Ru-100 Incident Energy (eV)

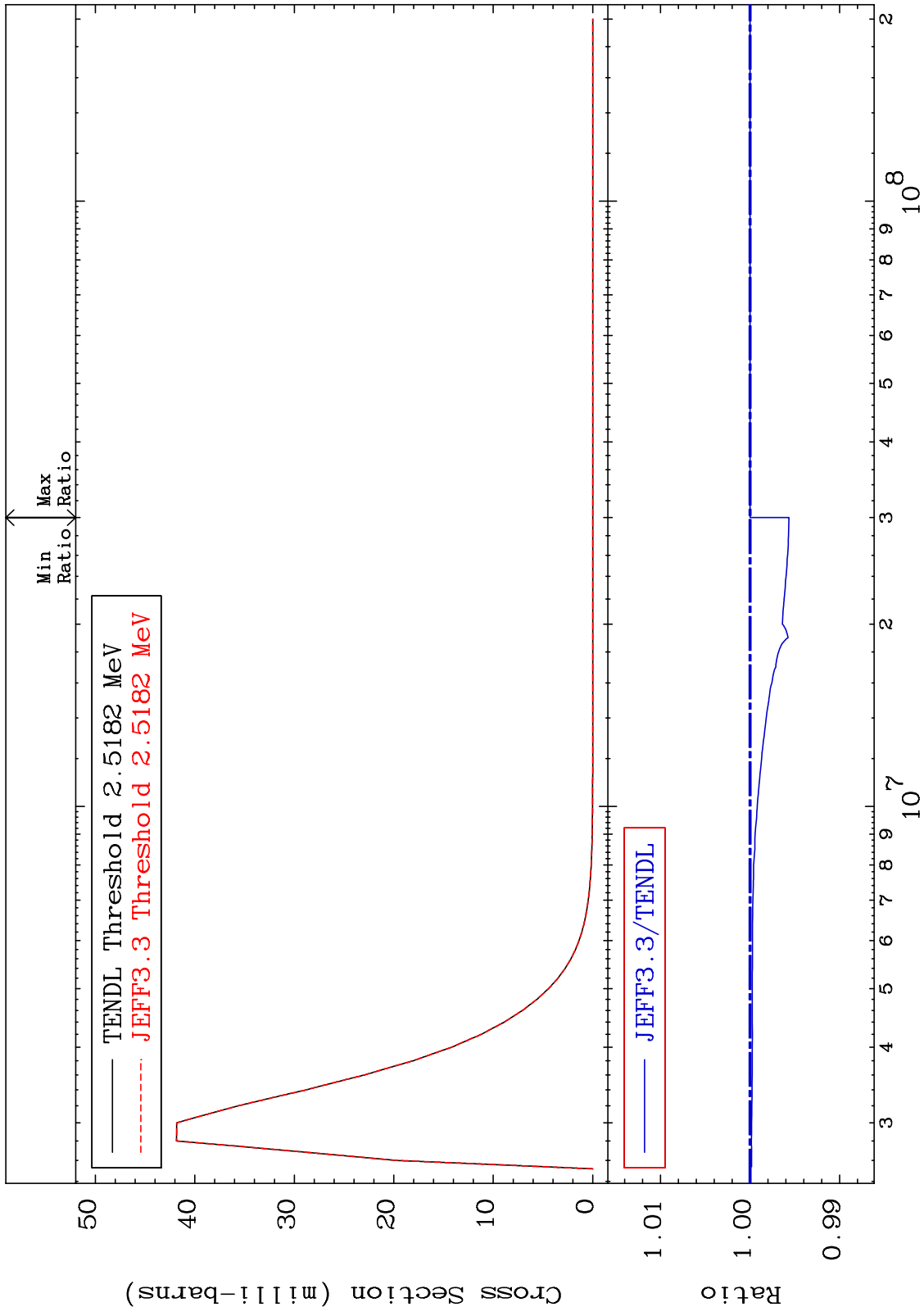
MAT 4437 MT= 75 (n,n') Level Cross Section 44-Ru-100  
 -0.434 To 0.000 %



MAT 4437

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

44-Ru-100  
-0.434 To 0.000 %

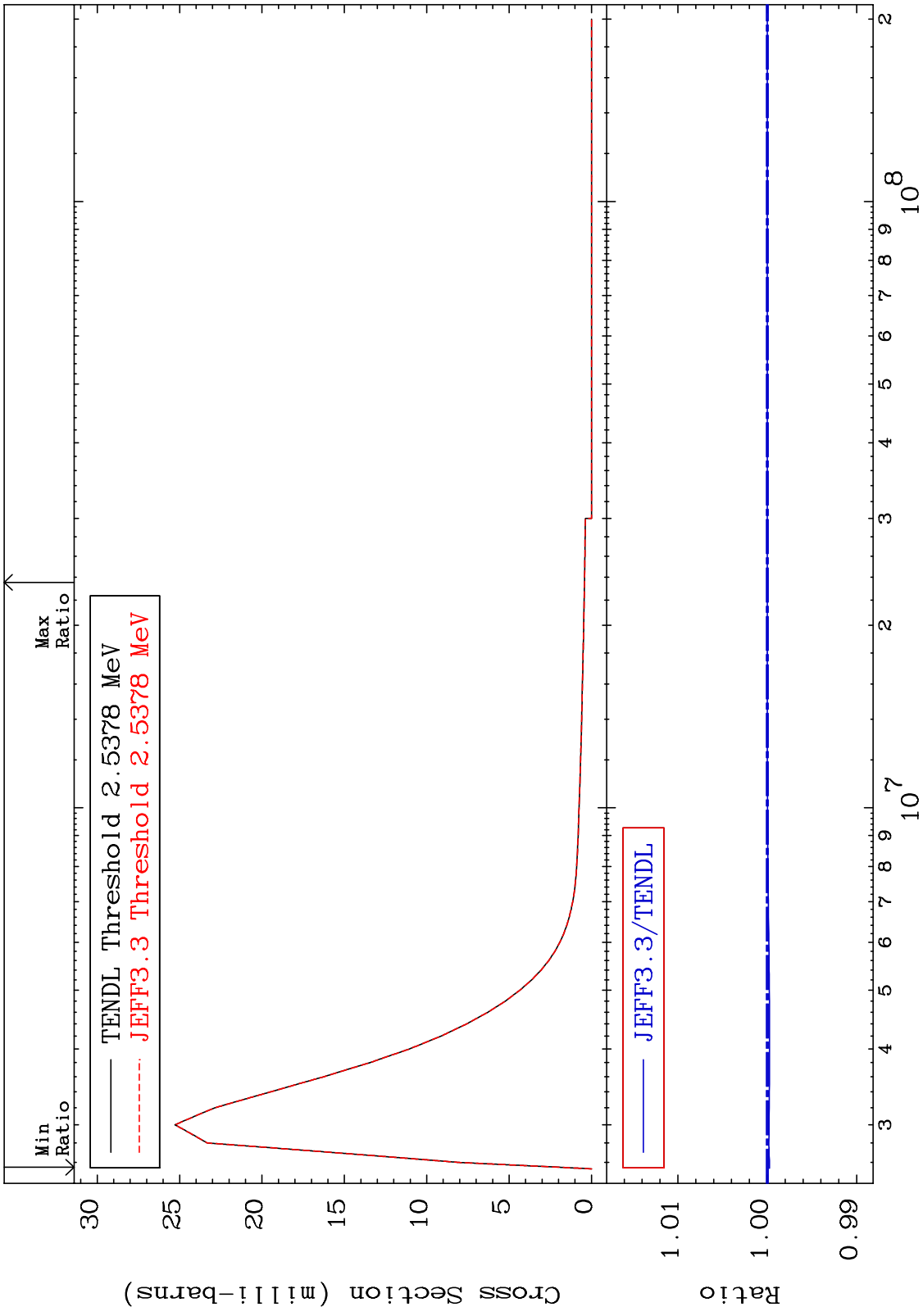


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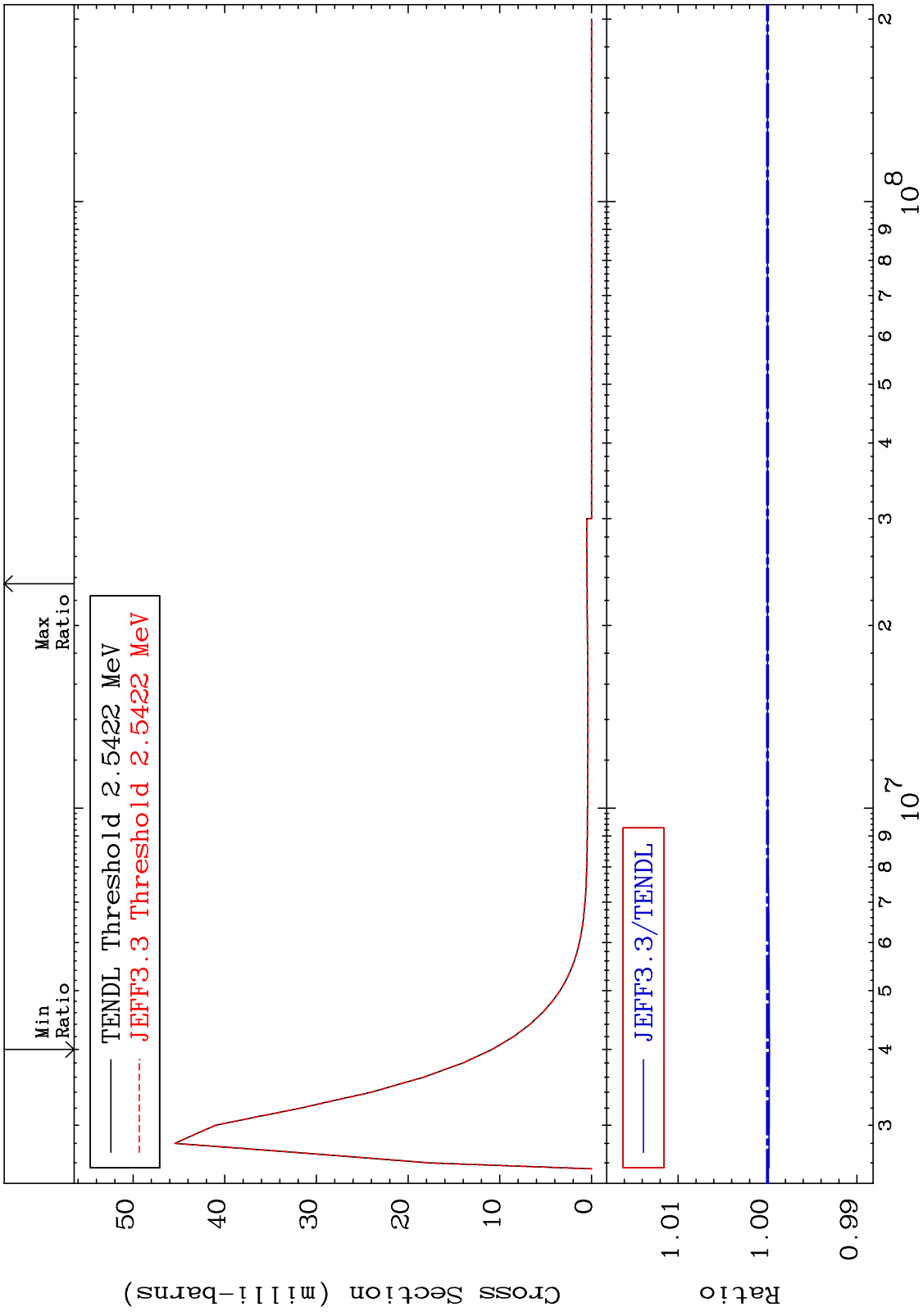
Incident Energy (eV)

44-Ru-100

MAT 4437 MT= 77 (n,n') Level Cross Section 44-Ru-100  
 -0.026 To 0.000 %



MAT 4437 MT= 78 (n,n') Level Cross Section 44-Ru-100  
 -0.022 To 0.000 %

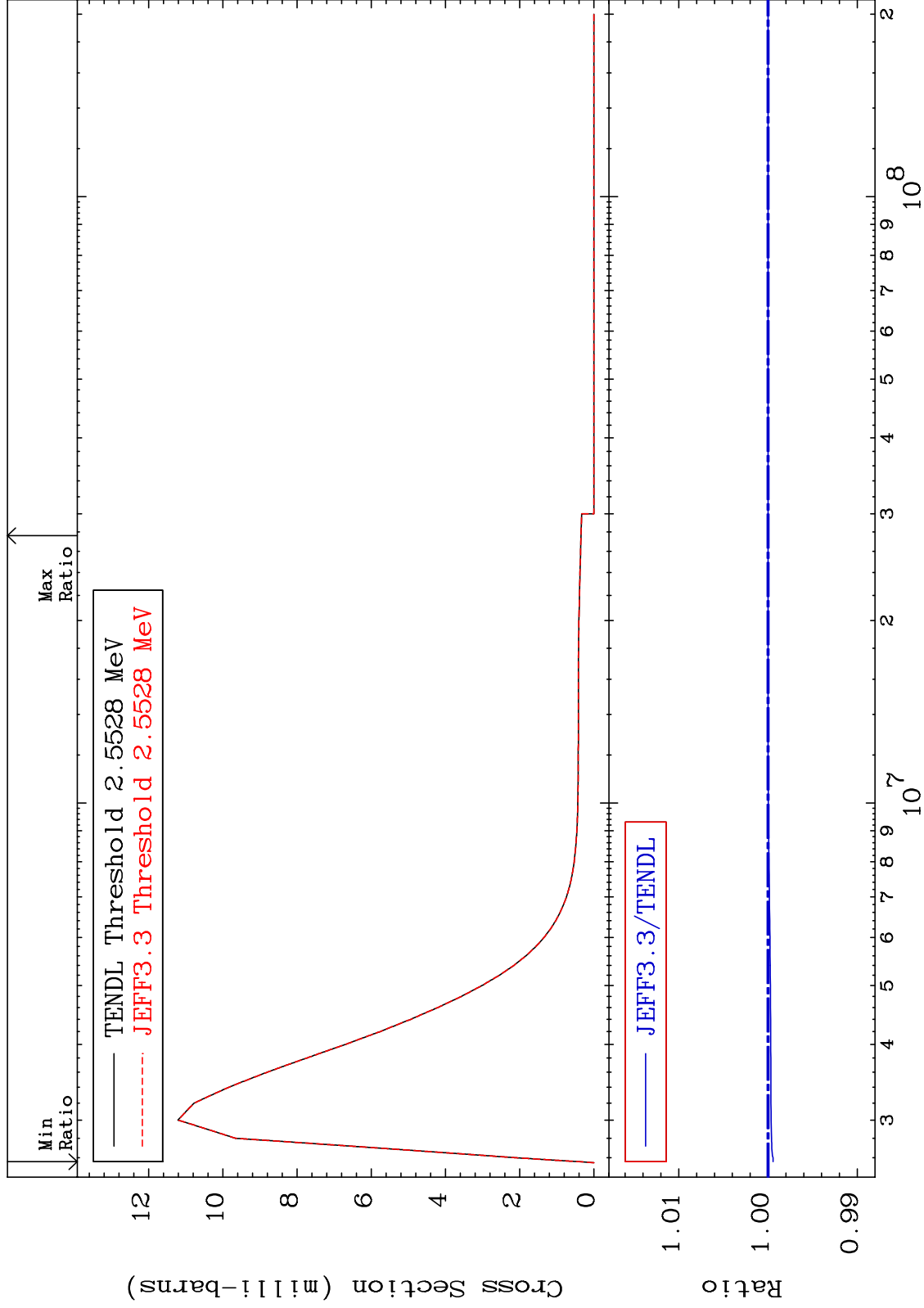




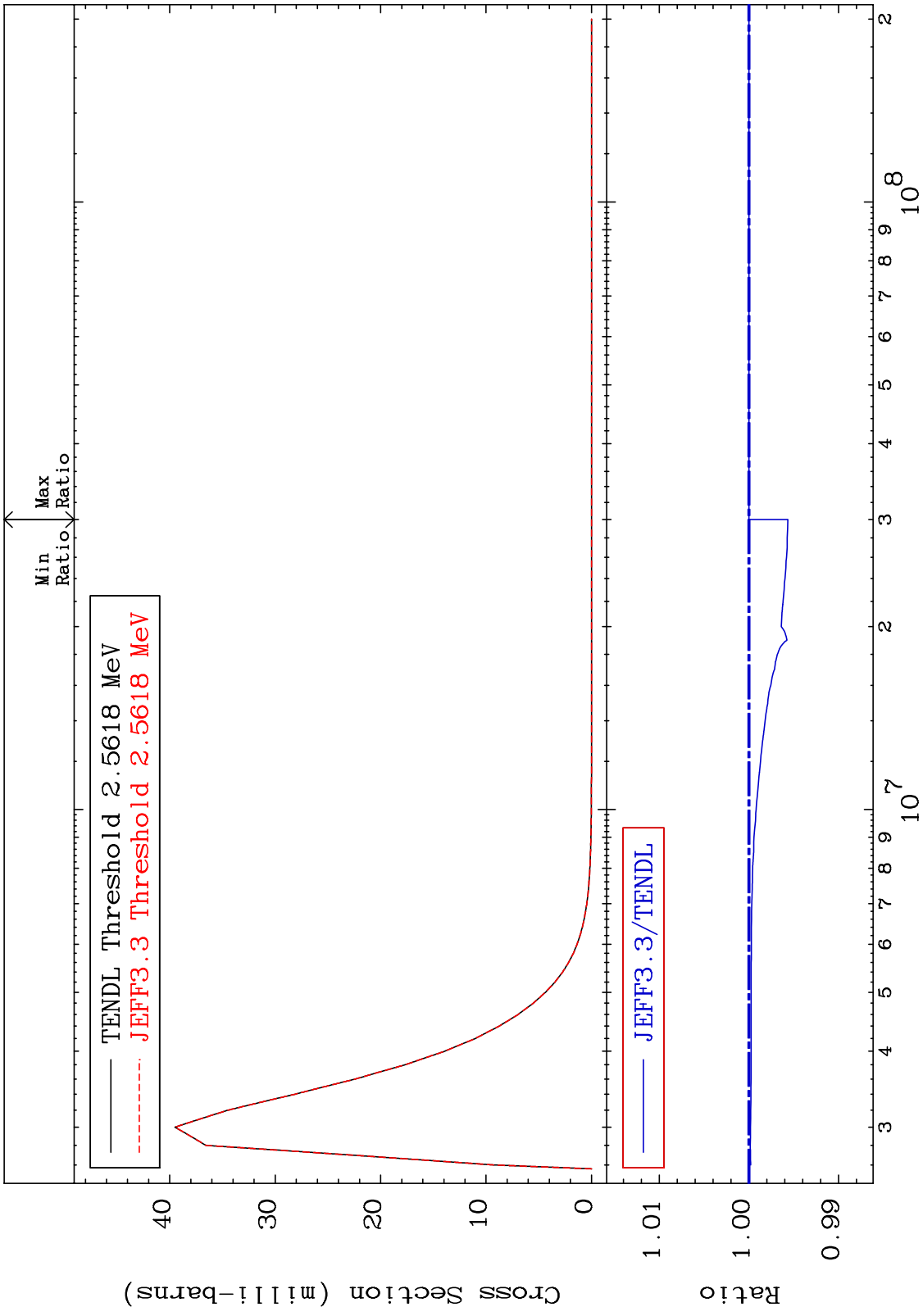
MAT 4437

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

44-Ru-100  
-0.055 To 0.000 %



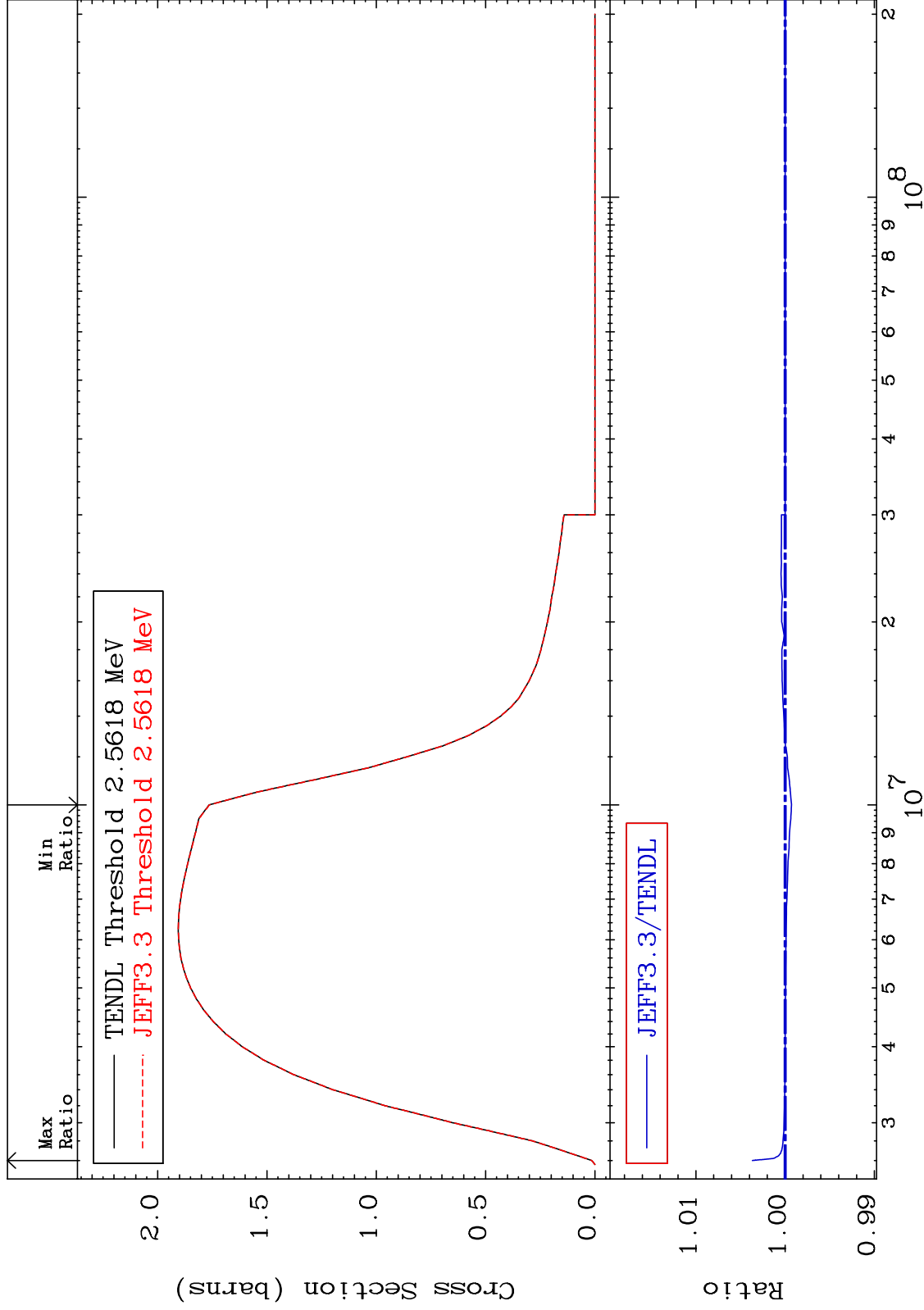
MAT 4437 MT= 80 (n, n') Level Cross Section 44-Ru-100  
 -0.435 To 0.000 %



MAT 4437

(n,n') Continuum  
Cross Section

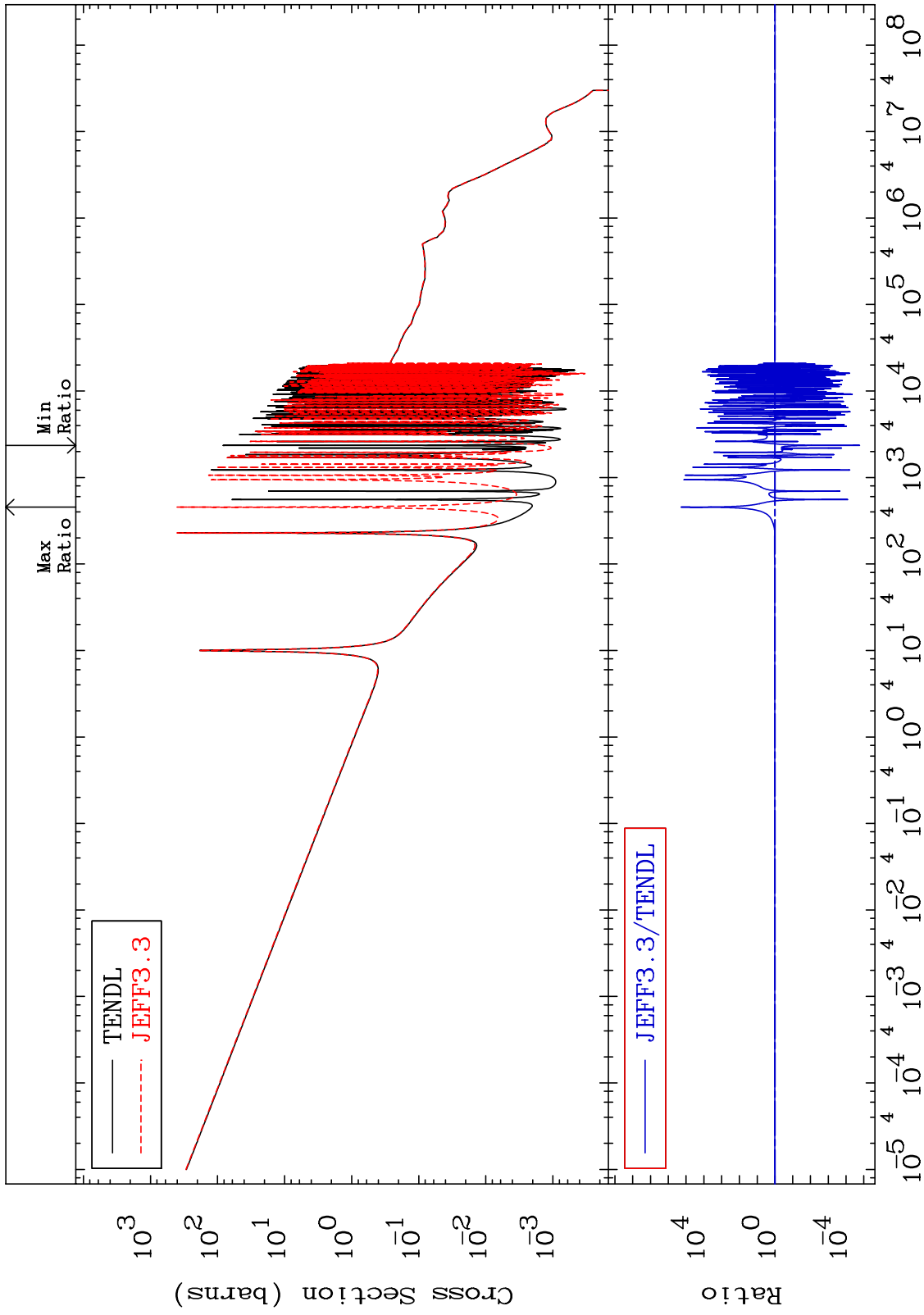
44-Ru-100  
-0.071 To 0.368 %

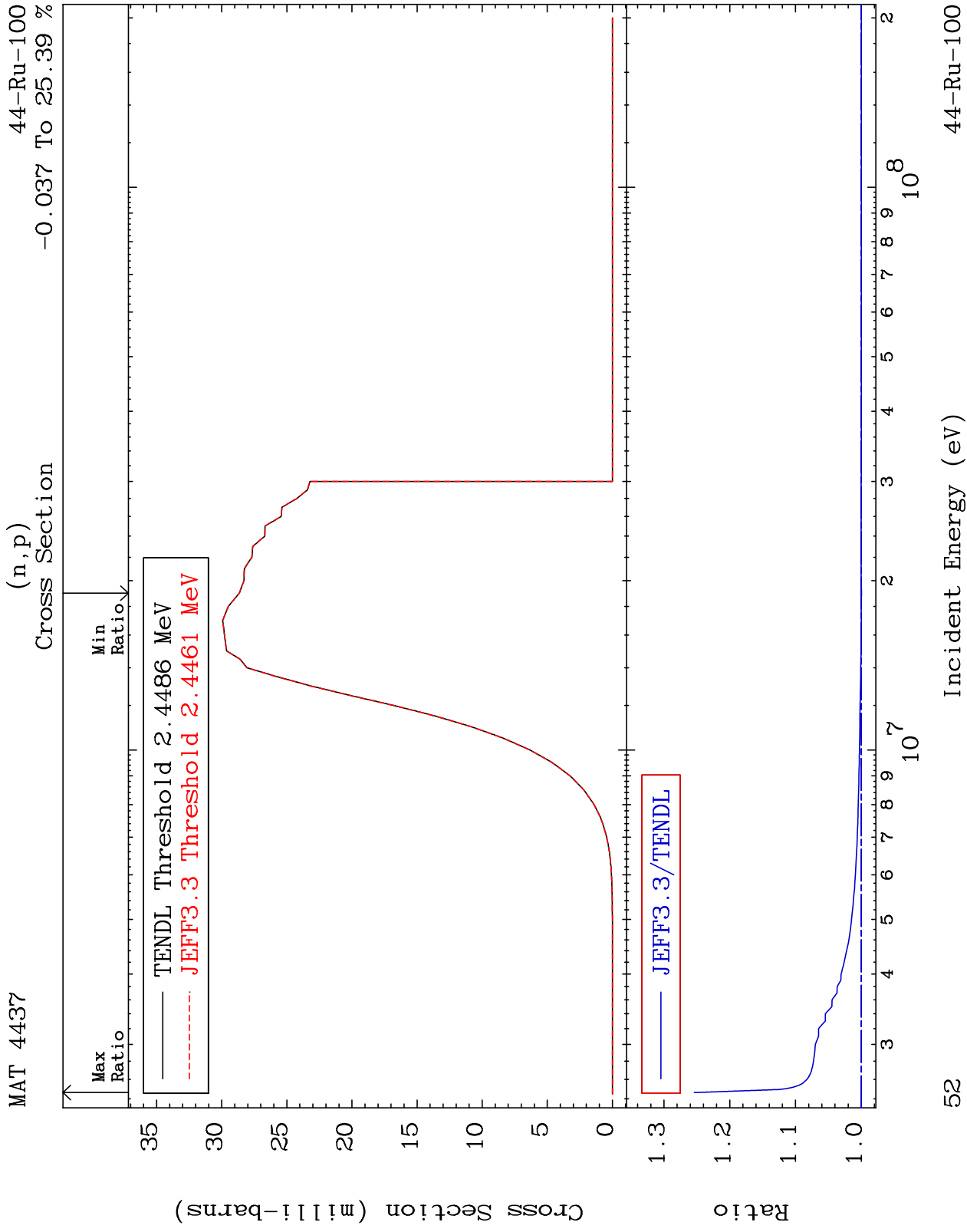


MAT 4437

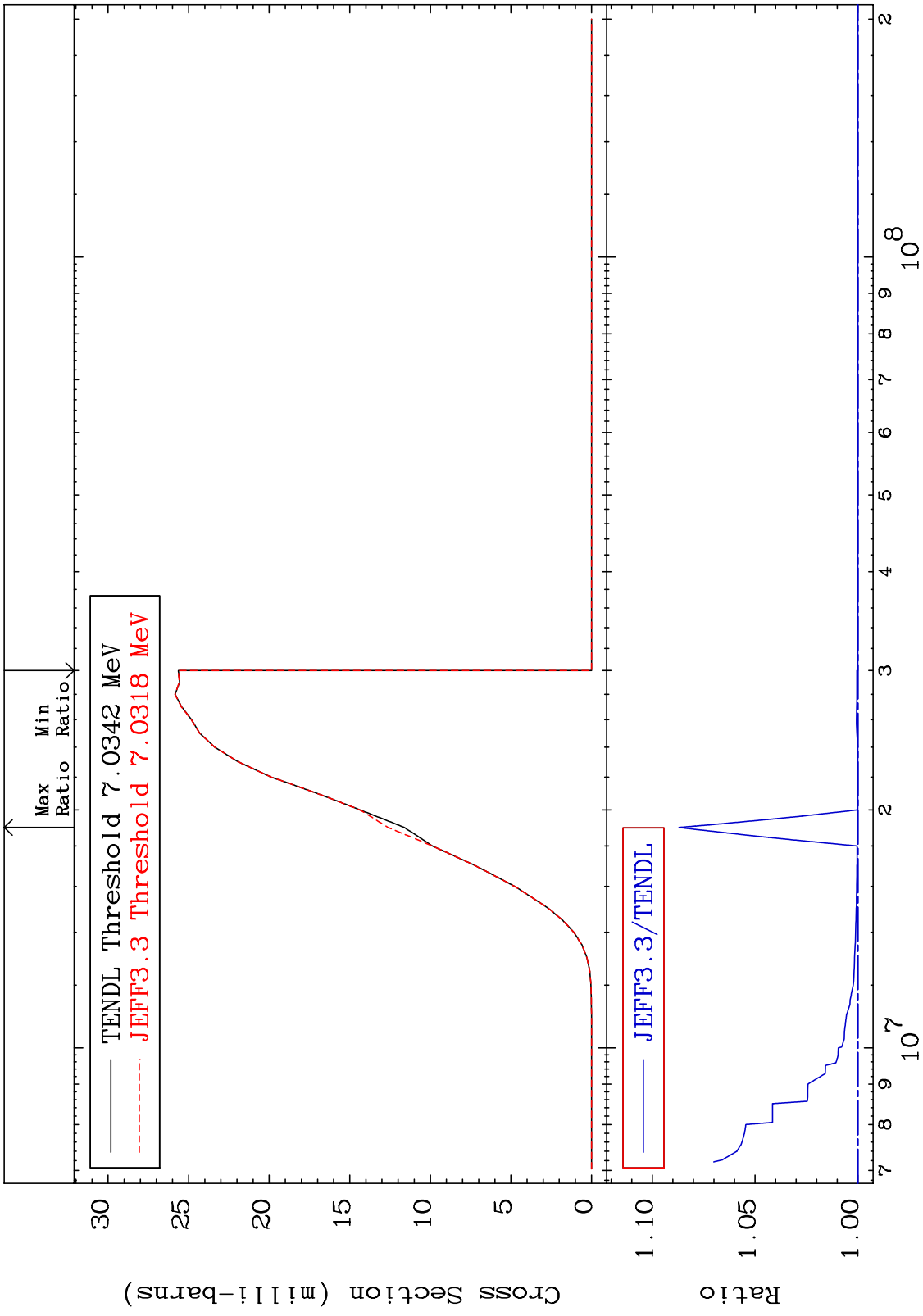
(n,  $\gamma$ )  
Cross Section

44-Ru-100  
-100.0 To 9999. %

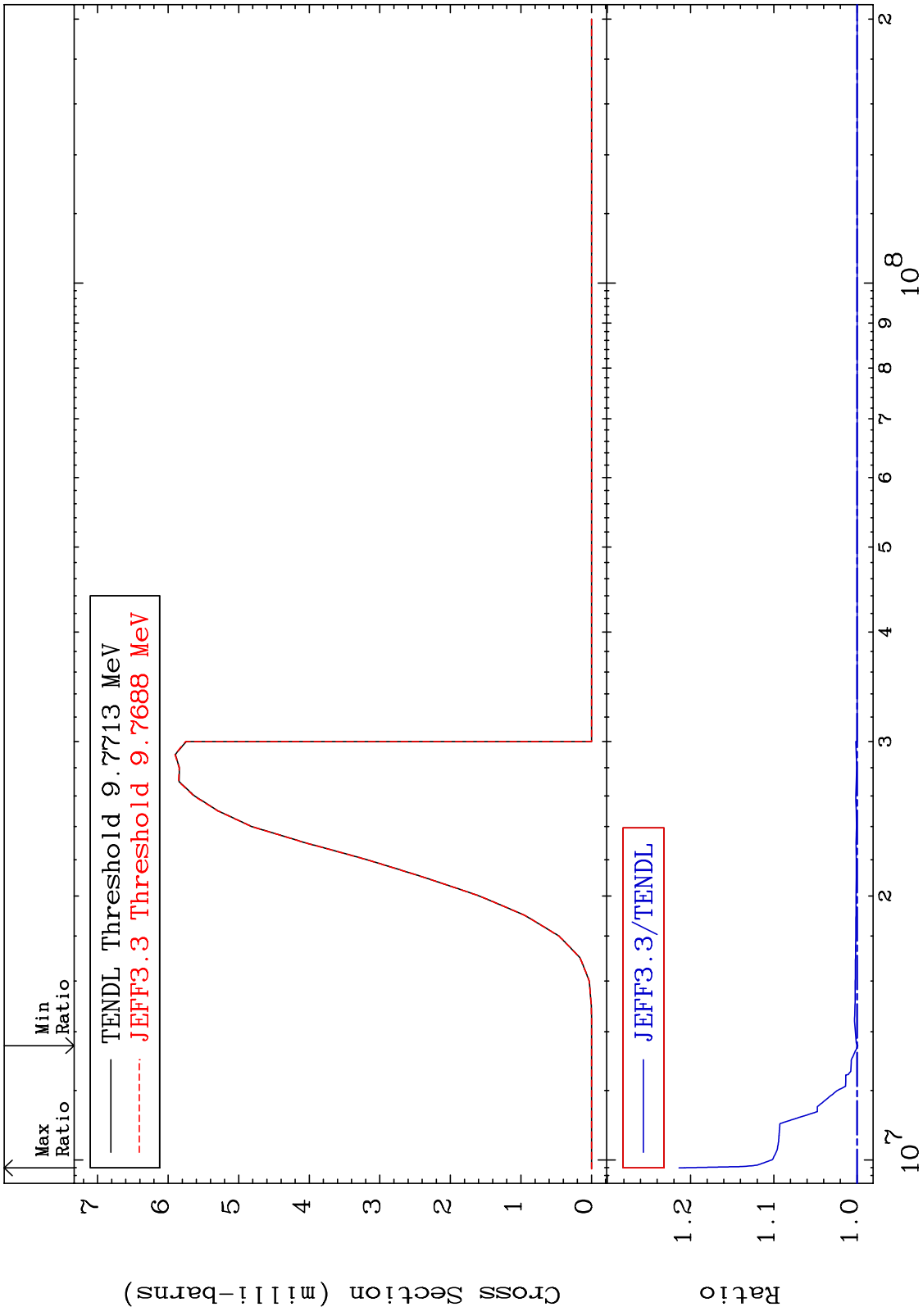




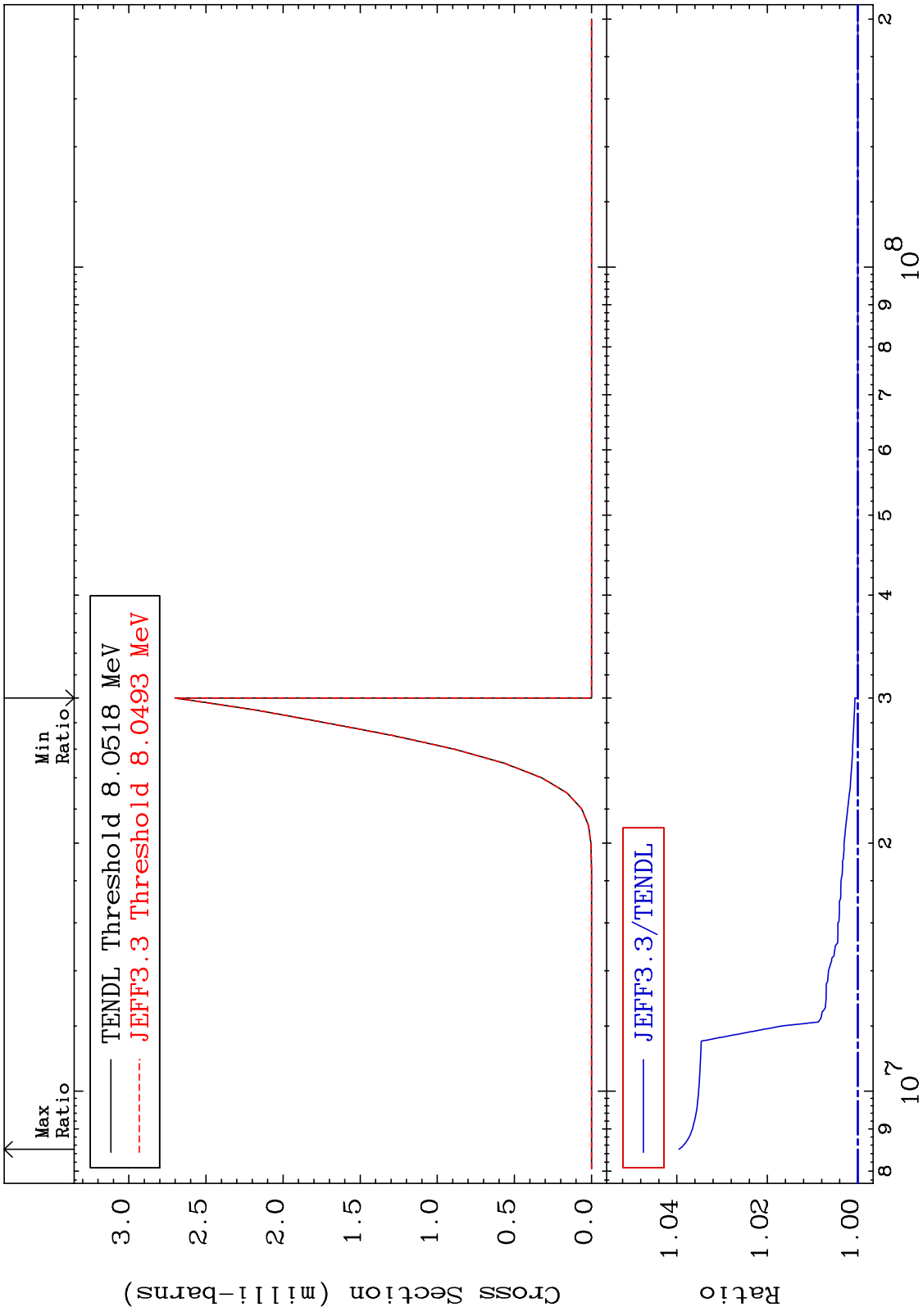
MAT 4437 (n,d) Cross Section 44-Ru-100 To 8.697 %



MAT 4437 (n,t) 44-Ru-100  
Cross Section -0.096 To 21.38 %



MAT 4437 (n, He-3) Cross Section 44-Ru-100 To 3.952 %





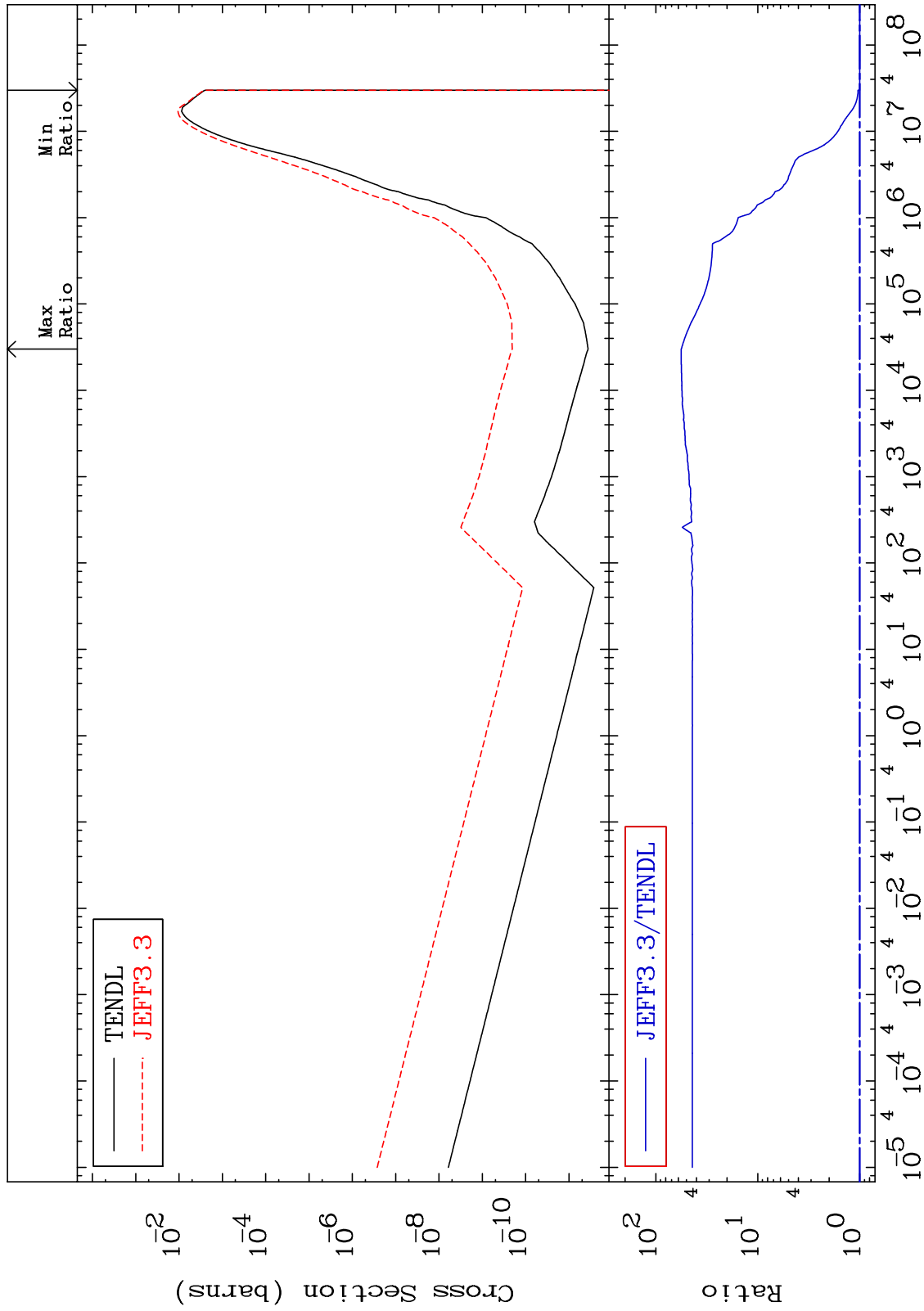
MAT 4437

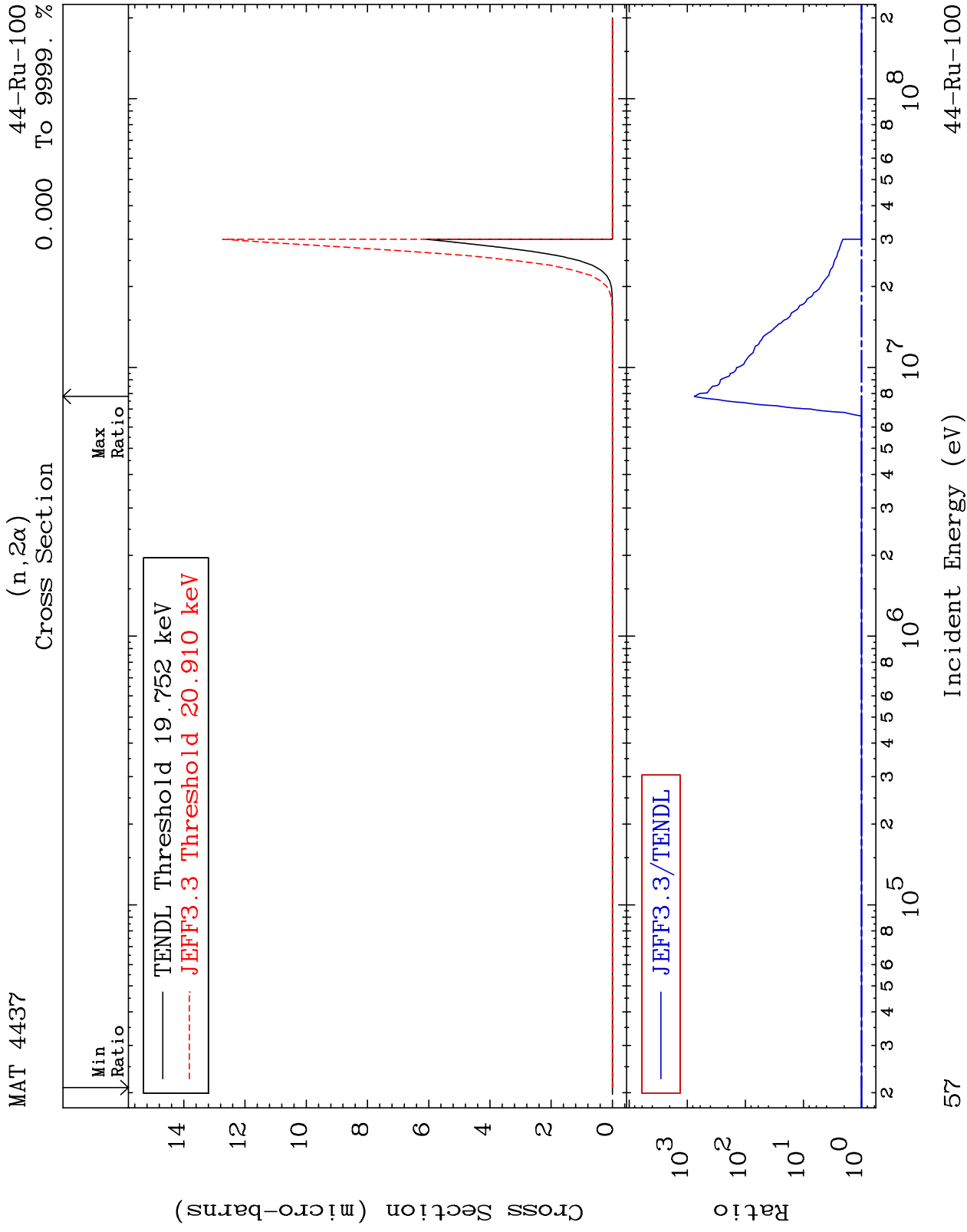
(n,  $\alpha$ )

Cross Section

0.000 To 5531. %

44-Ru-100





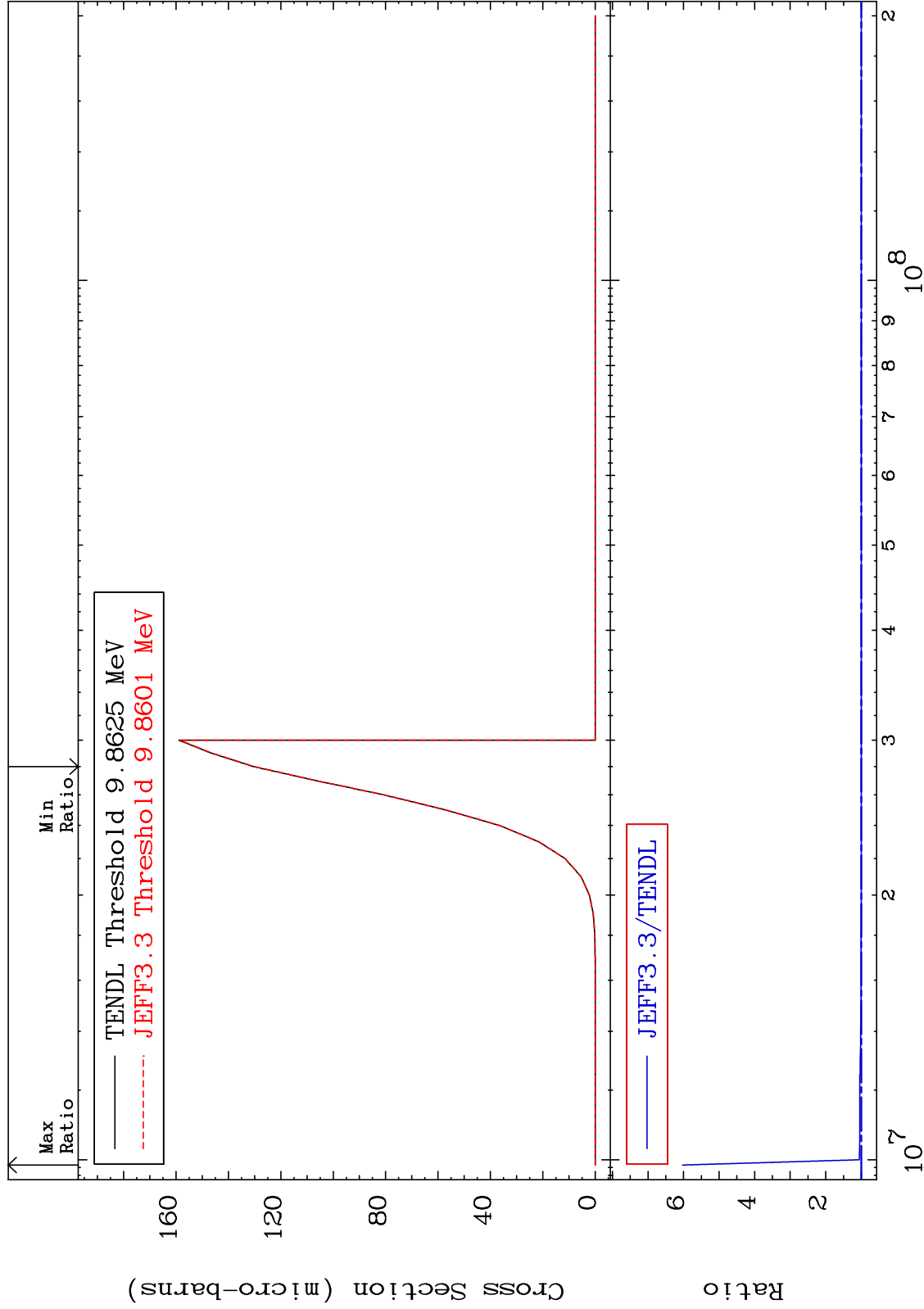
MAT 4437

(n,2p)

44-Ru-100

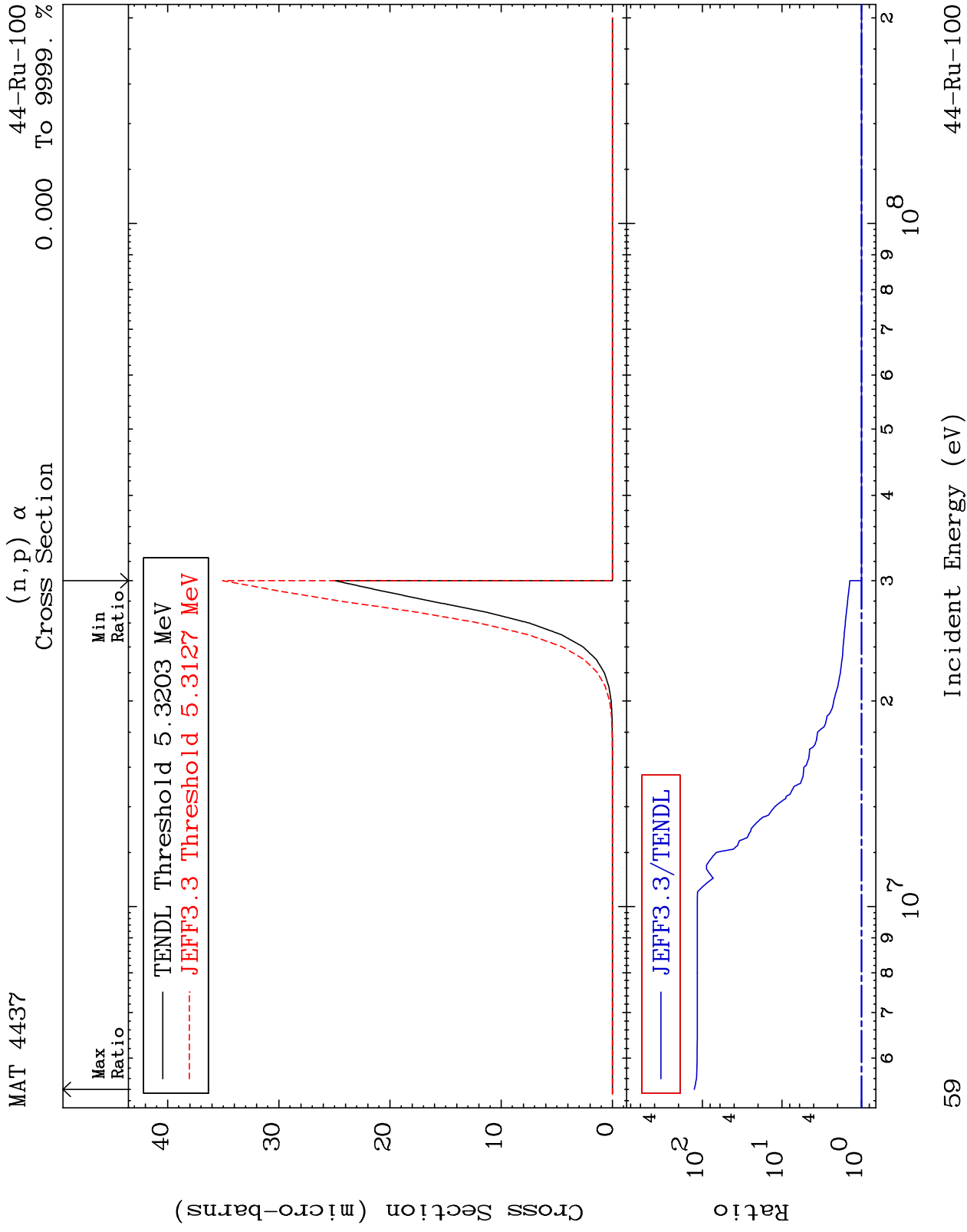
Cross Section

-0.227 To 502.5 %

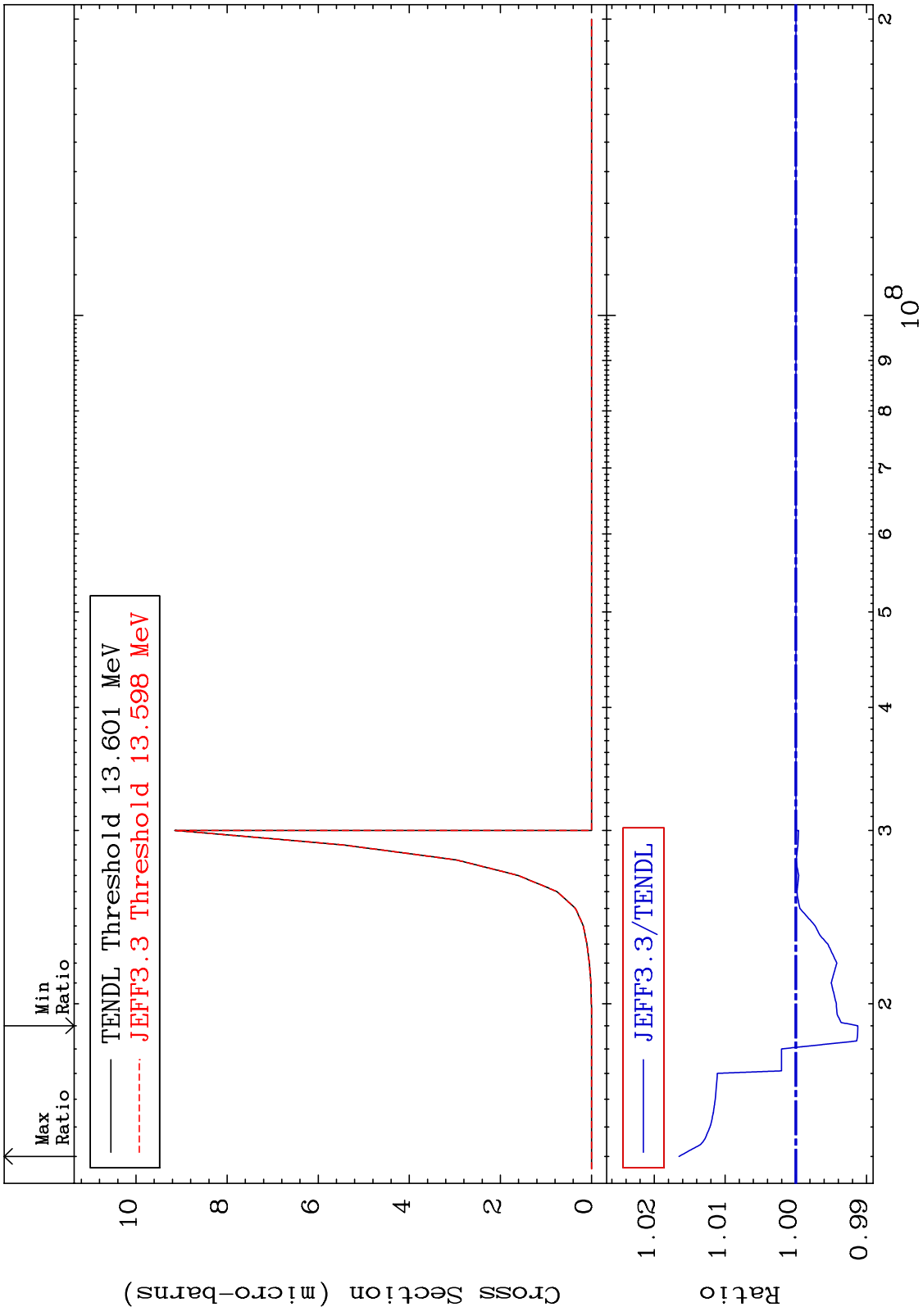


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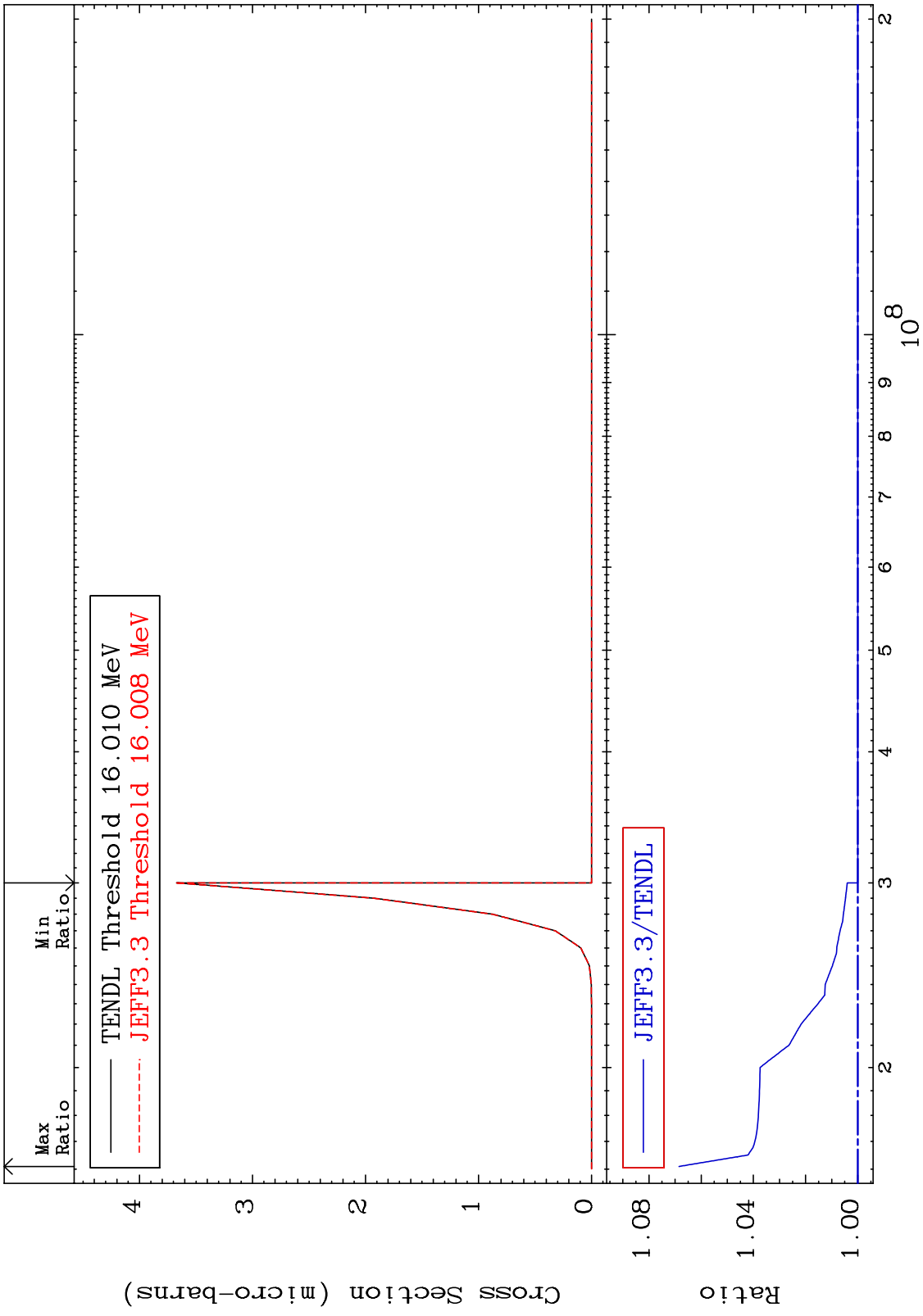
44-Ru-100



MAT 4437 (n,p) d 44-Ru-100  
 Cross Section -0.876 To 1.651 %



MAT 4437 (n,p) t 44-Ru-100  
Cross Section 0.000 To 6.848 %



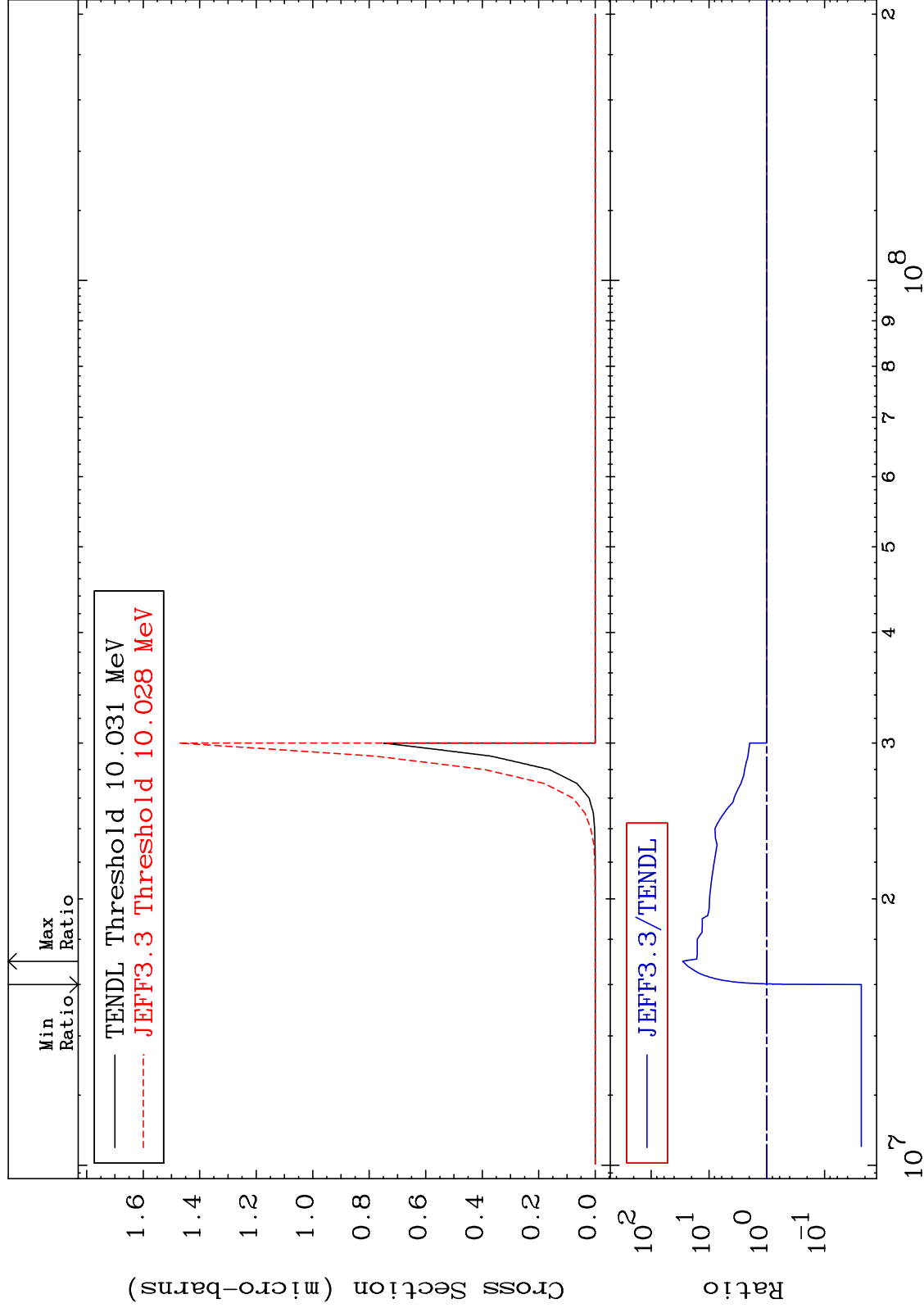
MAT 4437

(n,d)  $\alpha$

44-Ru-100

Cross Section

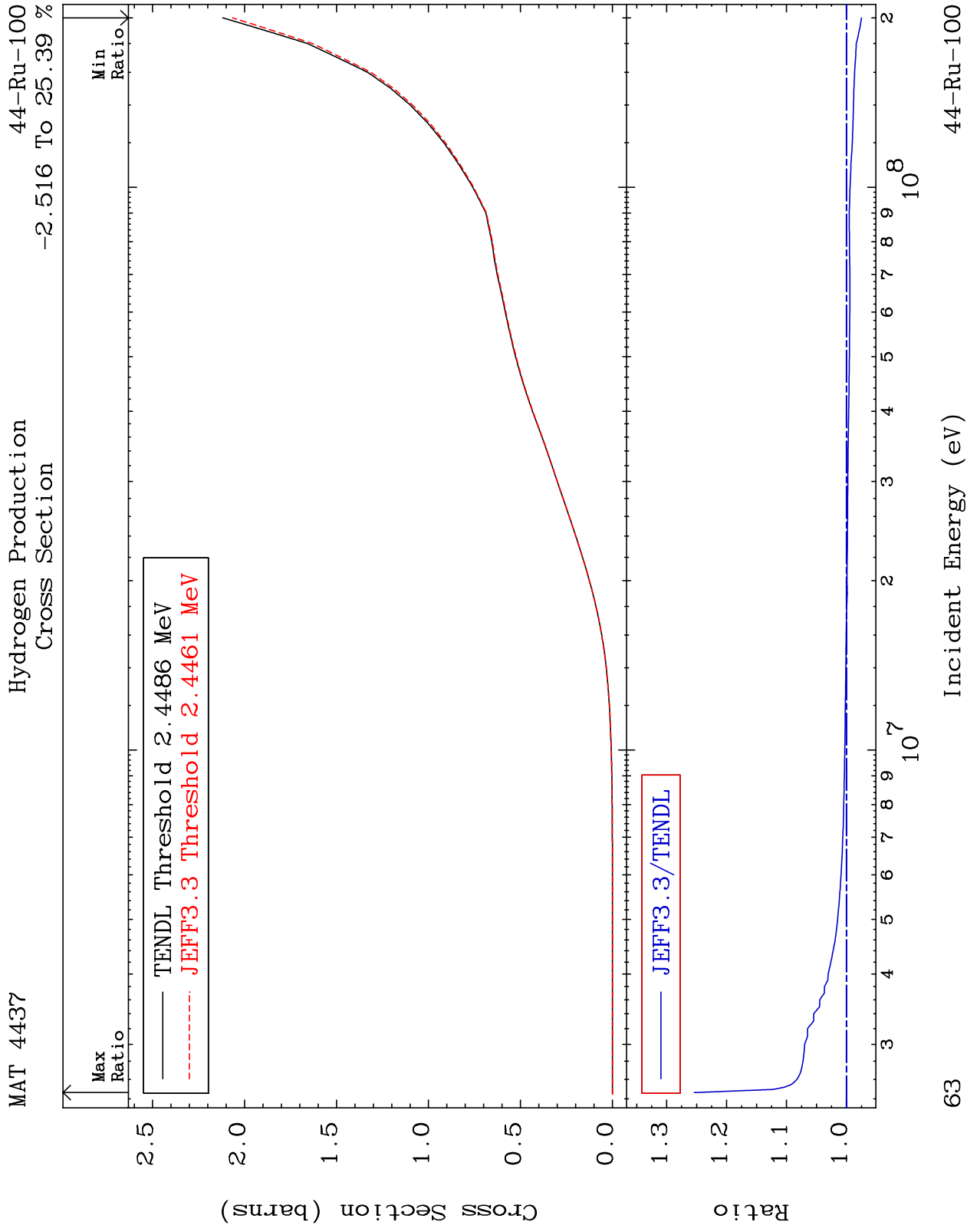
-97.69 To 2747. %



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Incident Energy (eV)

44-Ru-100

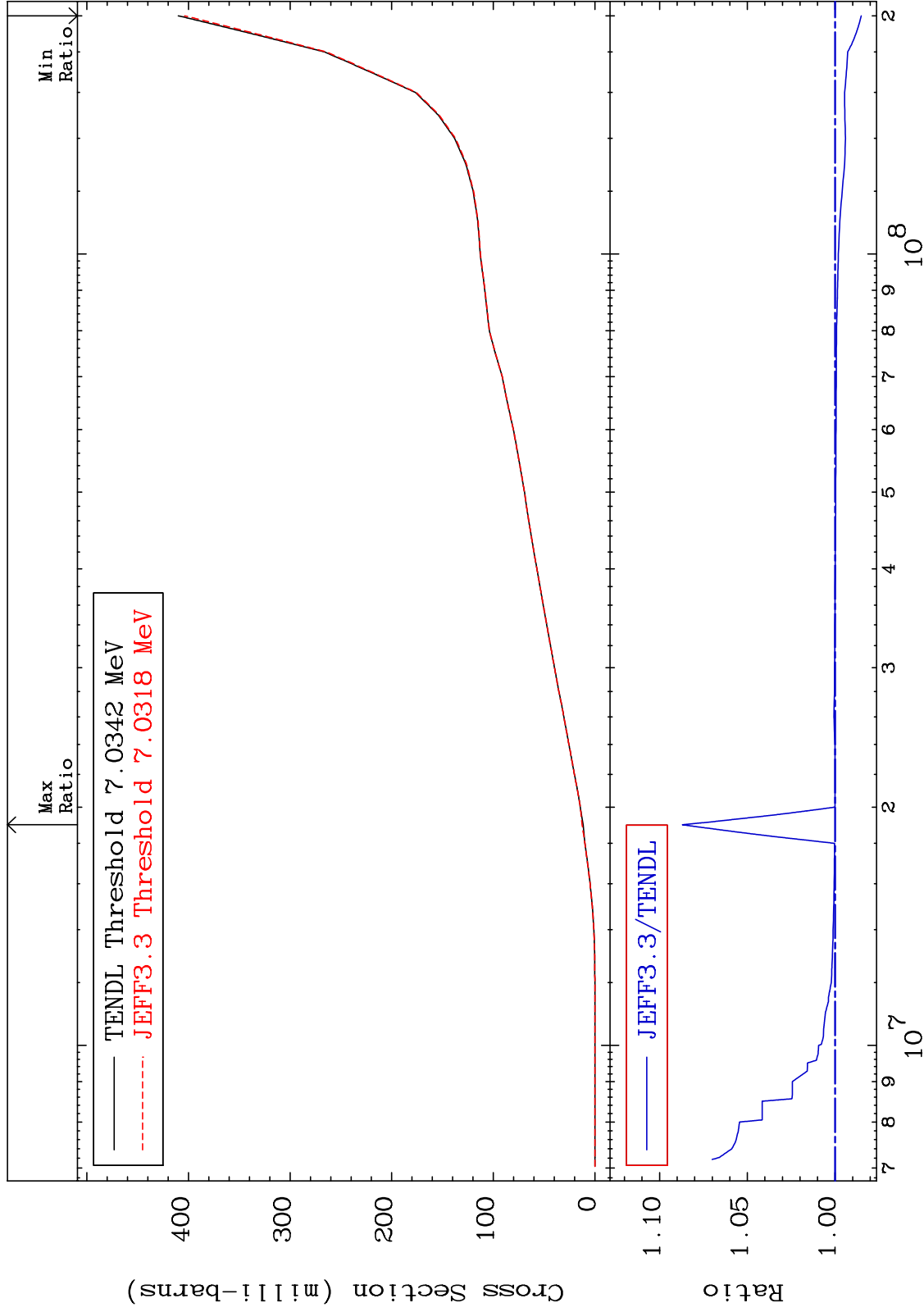




MAT 4437

Deuterium Production  
Cross Section

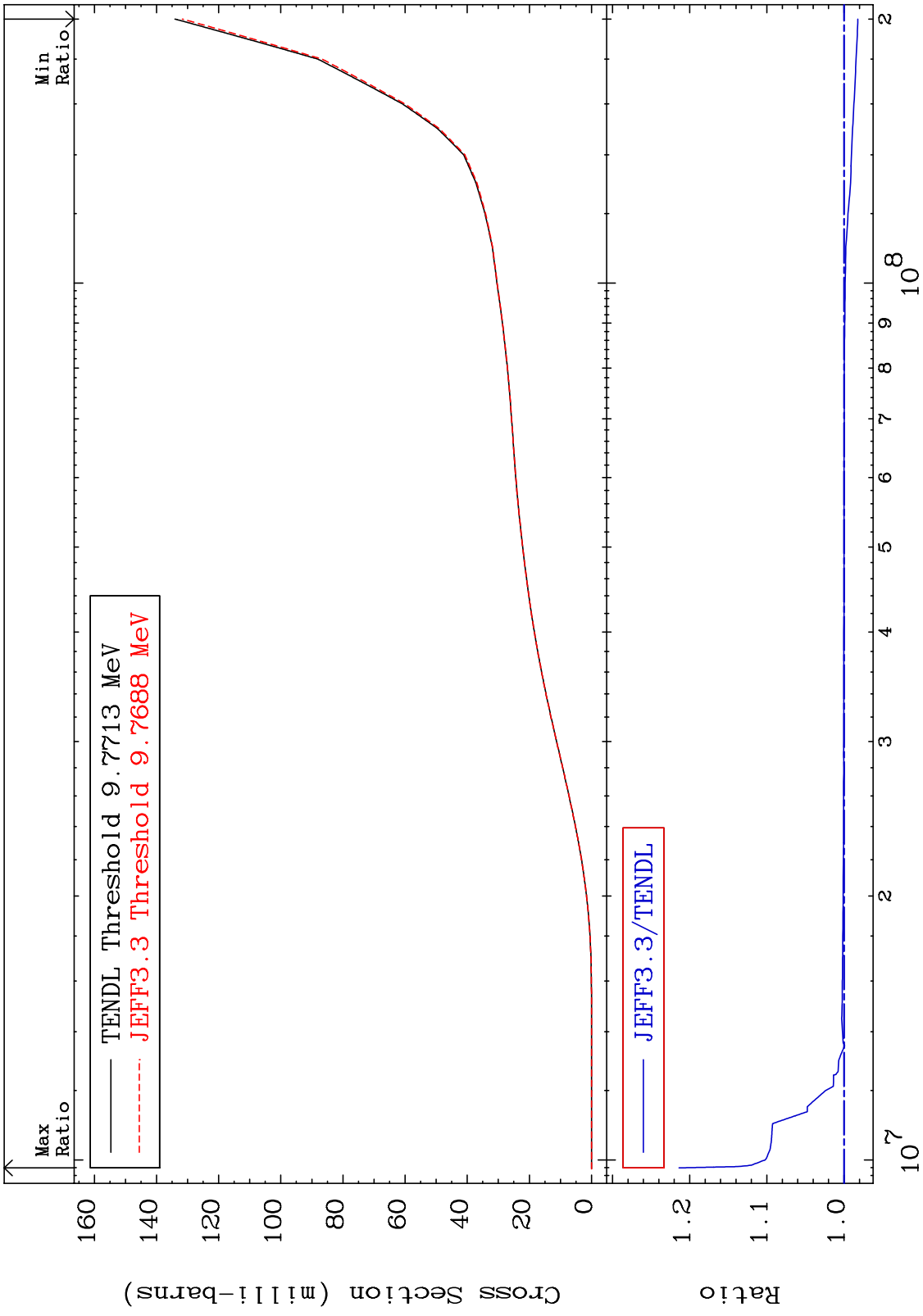
44-Ru-100  
-1.492 To 8.697 %



64

44-Ru-100

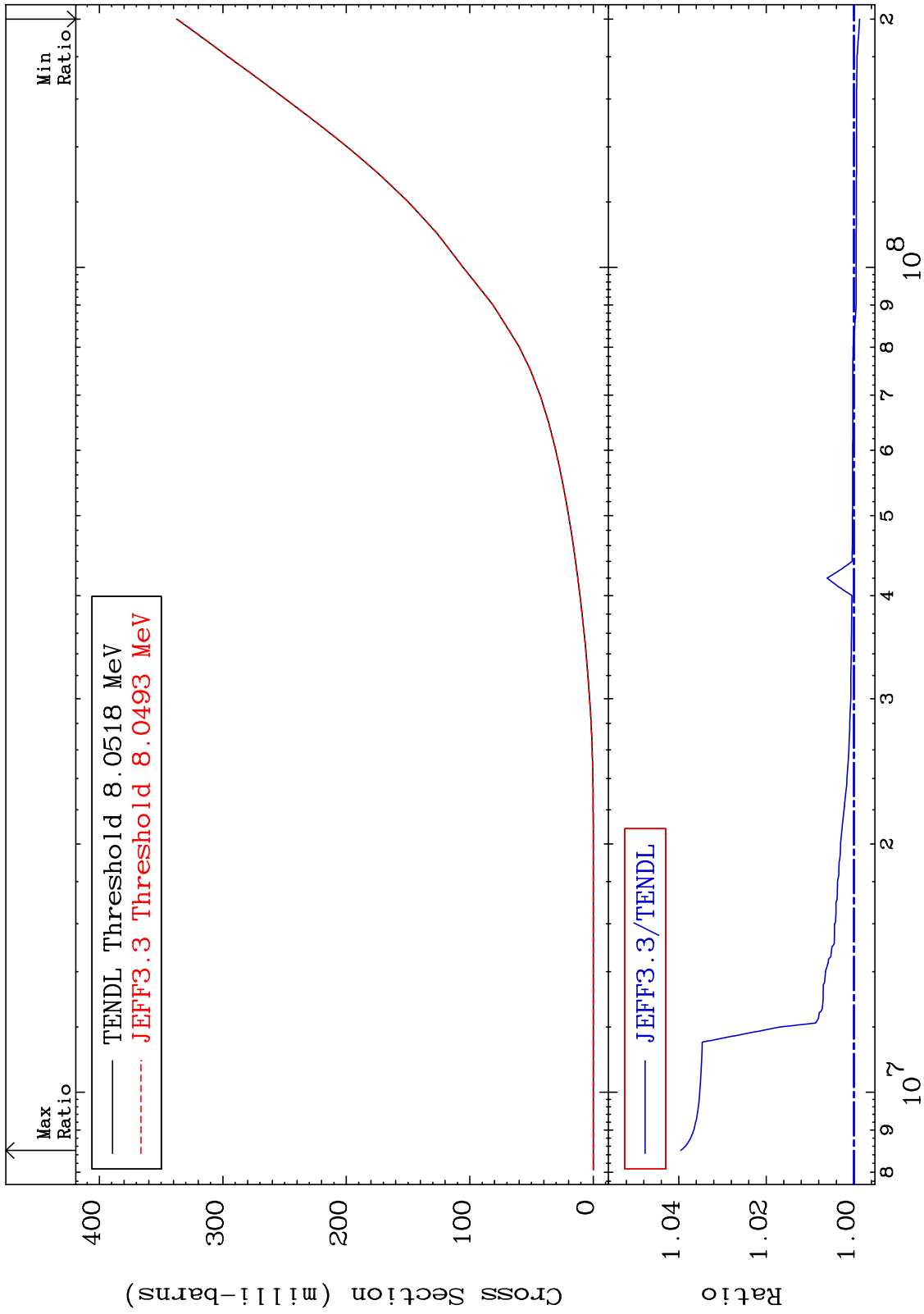
MAT 4437 Tritium Production Cross Section 44-Ru-100 -1.791 To 21.38 %



MAT 4437

He-3 Production  
Cross Section

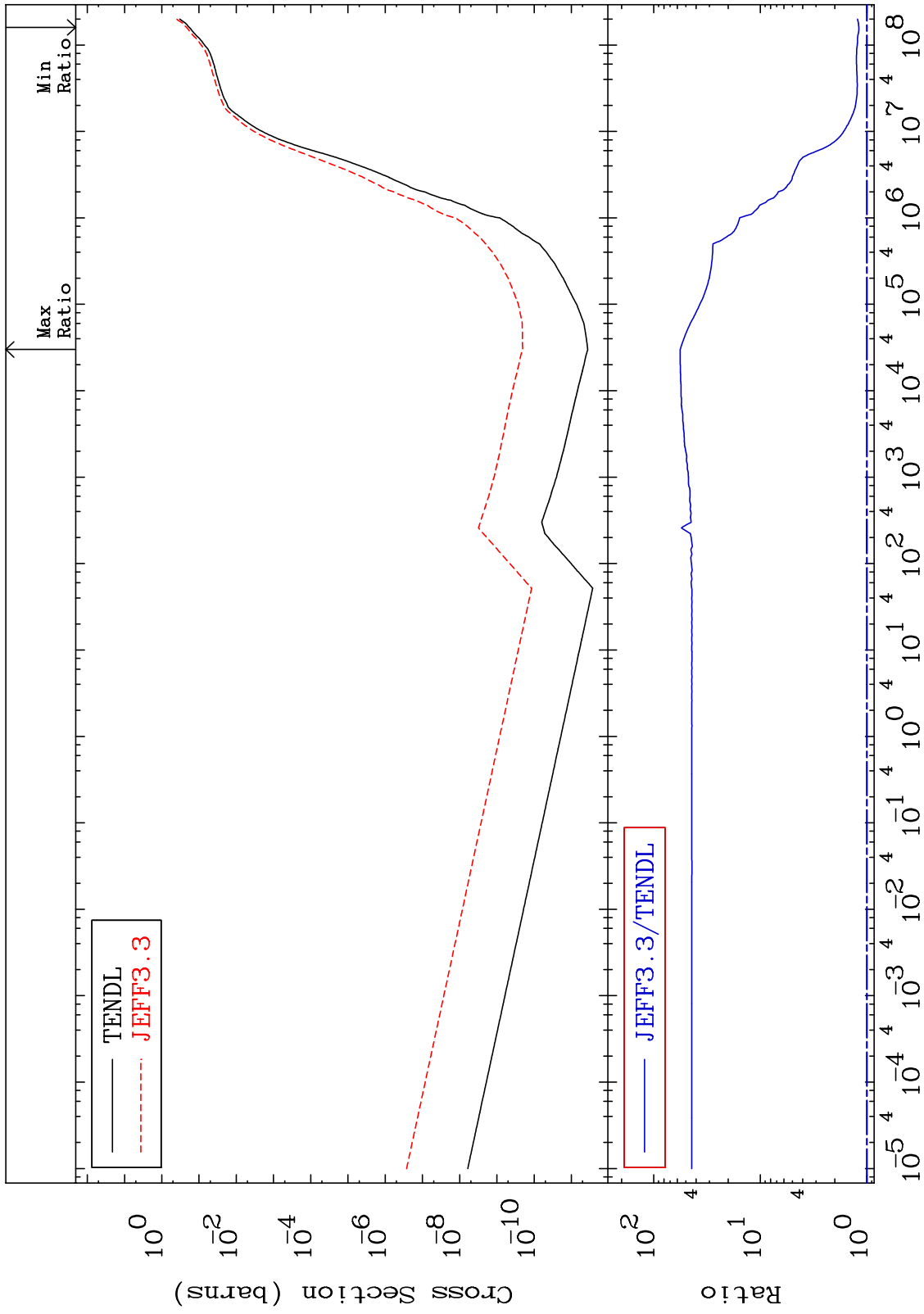
44-Ru-100  
-0.133 To 3.952 %



MAT 4437

He-4 Production  
Cross Section

44-Ru-100  
18.92 To 5531. %

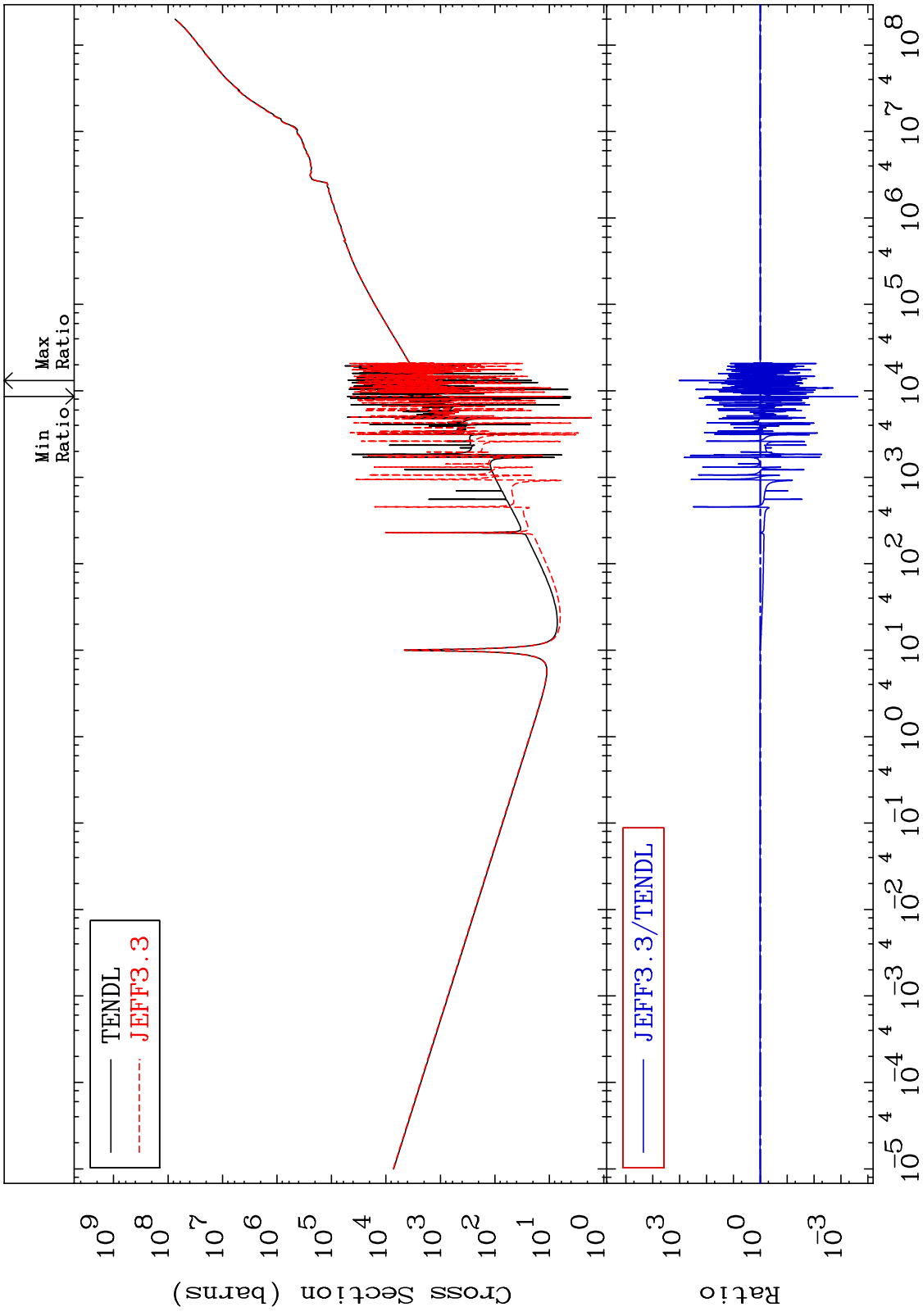


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Incident Energy (eV)

44-Ru-100

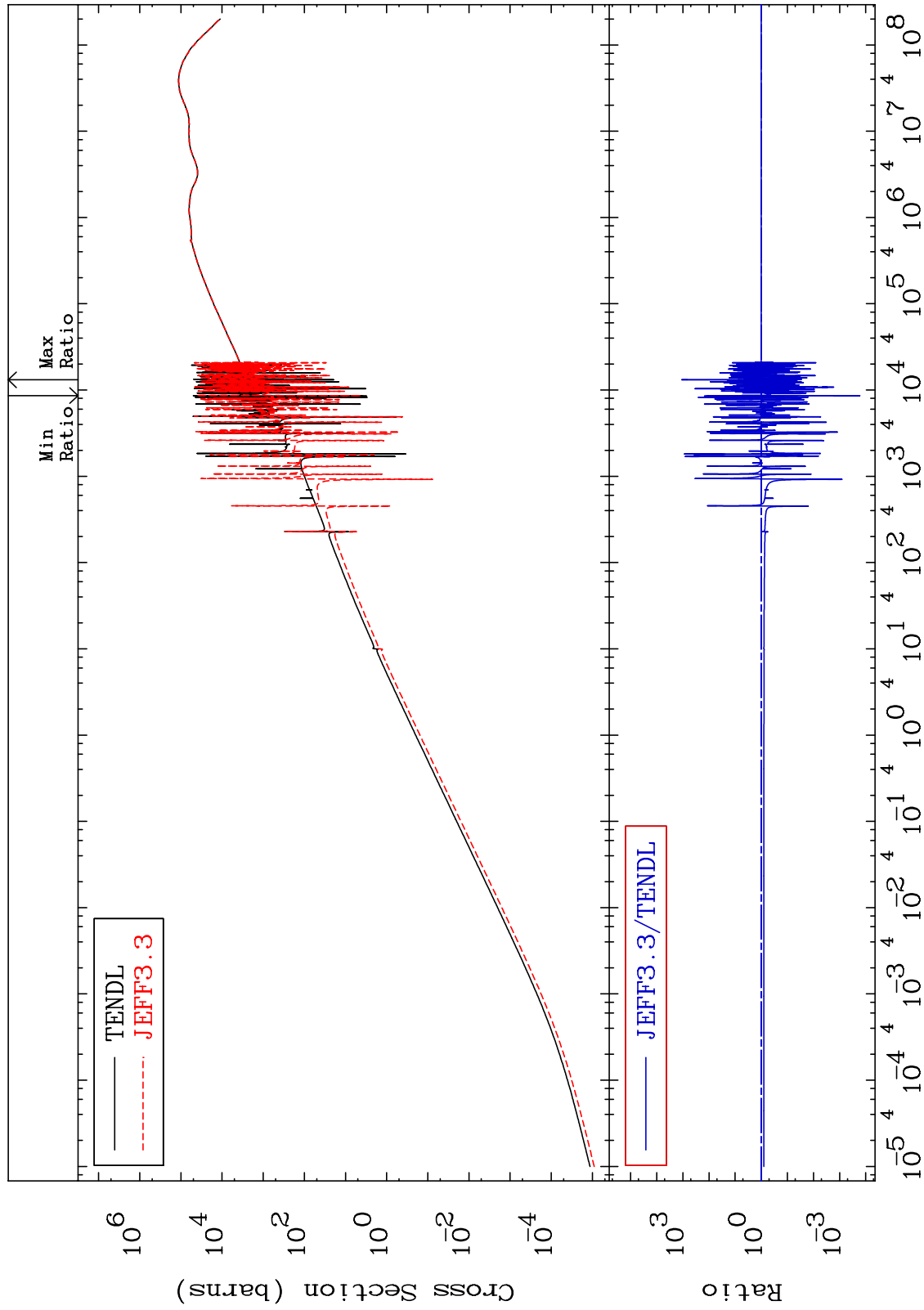
MAT 4437      Kerma total (eV-barns)      44-Ru-100  
 Cross Section      -99.98 To 9999. %



MAT 4437

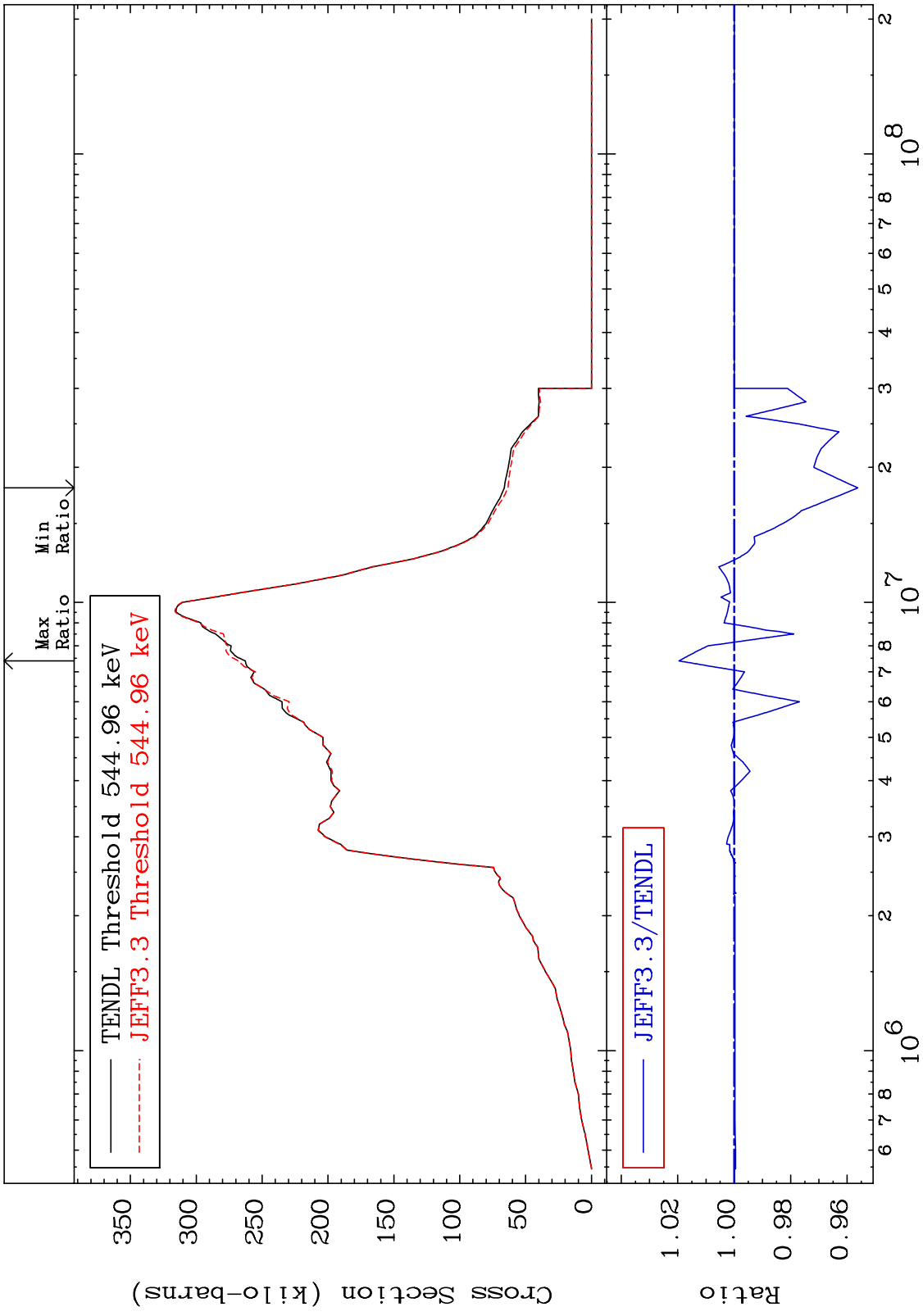
Kerma elastic  
Cross Section

44-Ru-100  
-99.98 To 9999. %





MAT 4437 Kerma inelastic (mt51-91) 44-Ru-100  
 -4.378 To 1.954 %  
 Cross Section



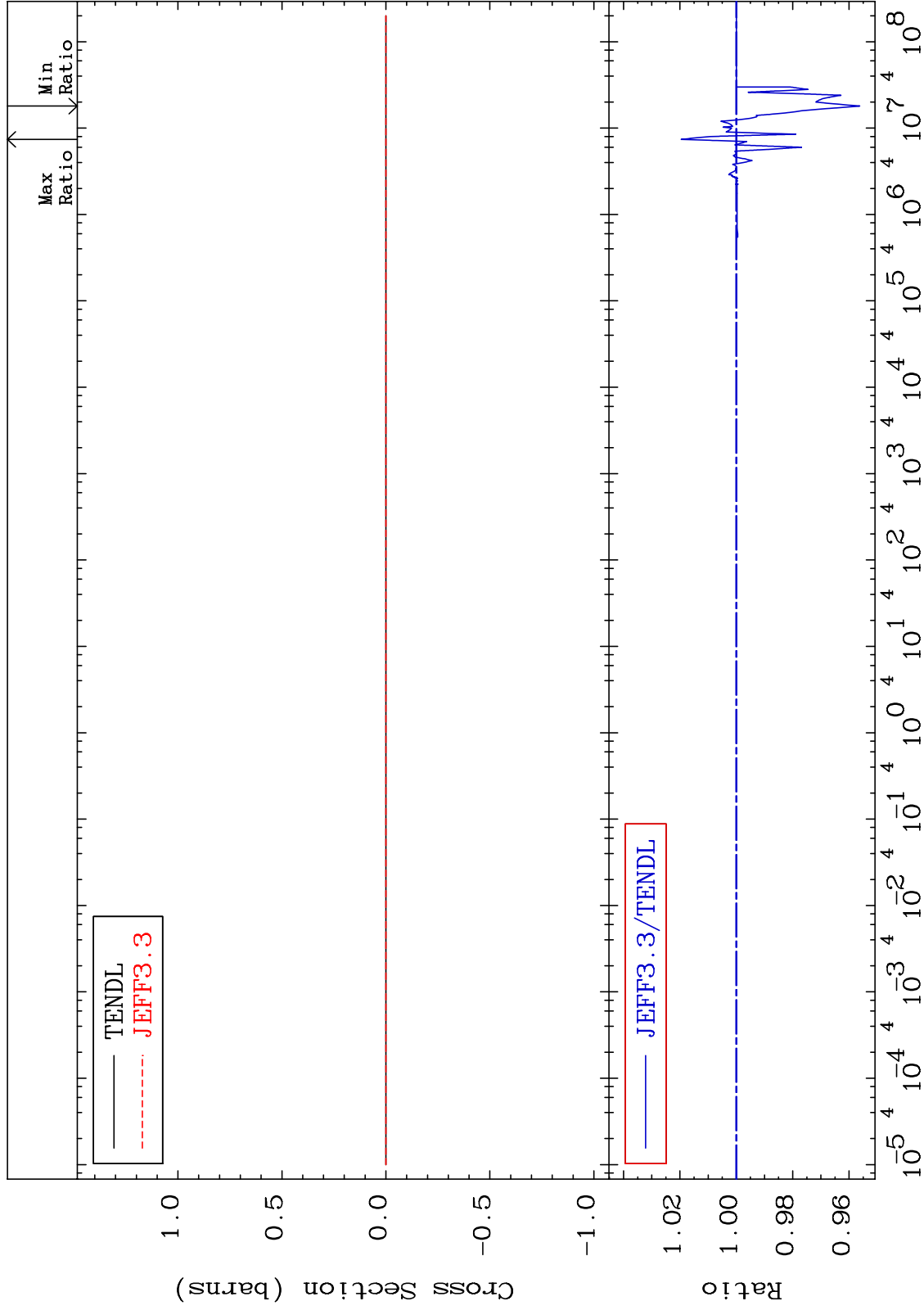
71 44-Ru-100



MAT 4437

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

44-Ru-100  
-4.378 To 1.954 %



72

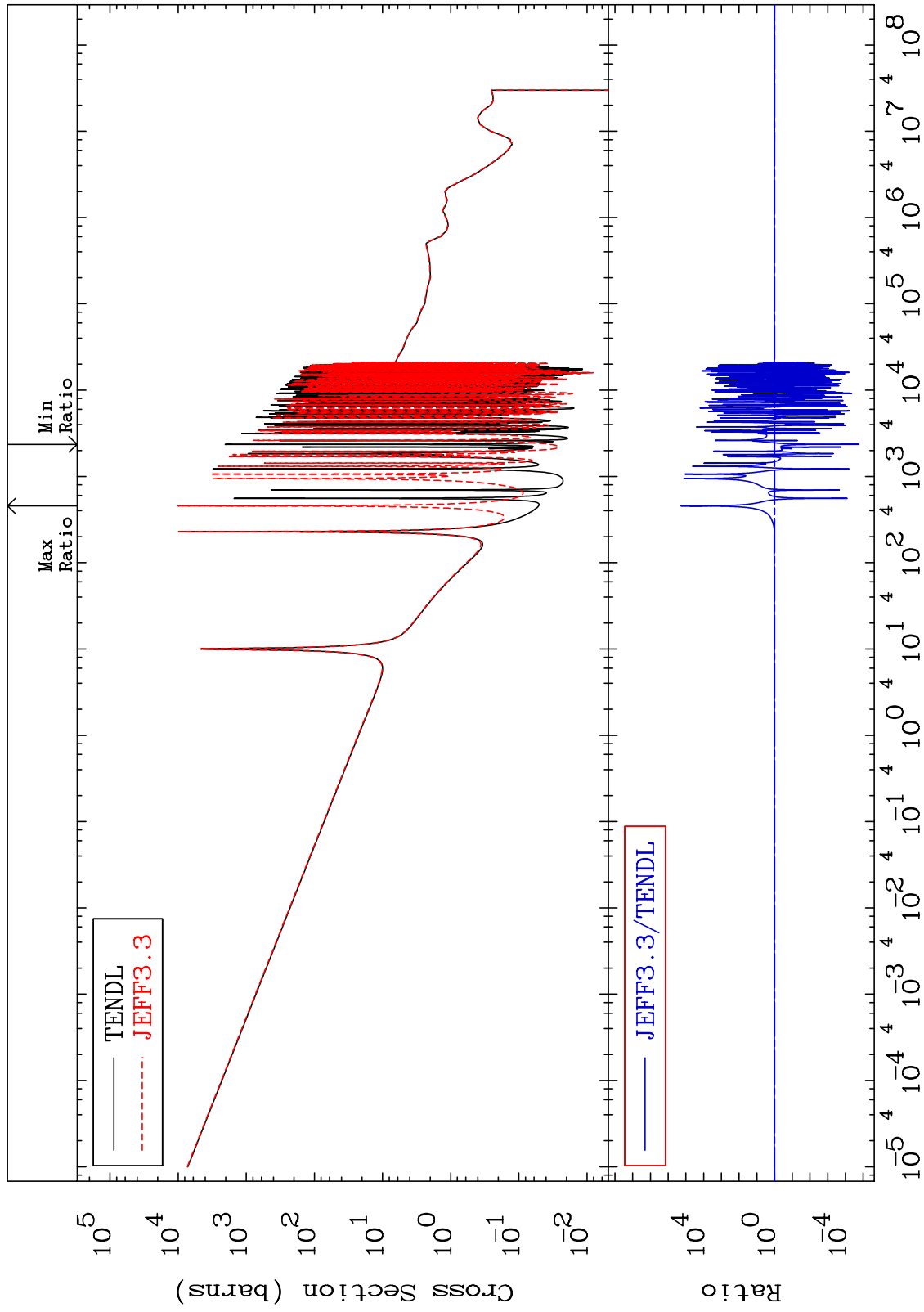
Incident Energy (eV)

44-Ru-100

MAT 4437

Kerma capture (mt102)  
Cross Section

44-Ru-100  
-100.0 To 9999. %



73

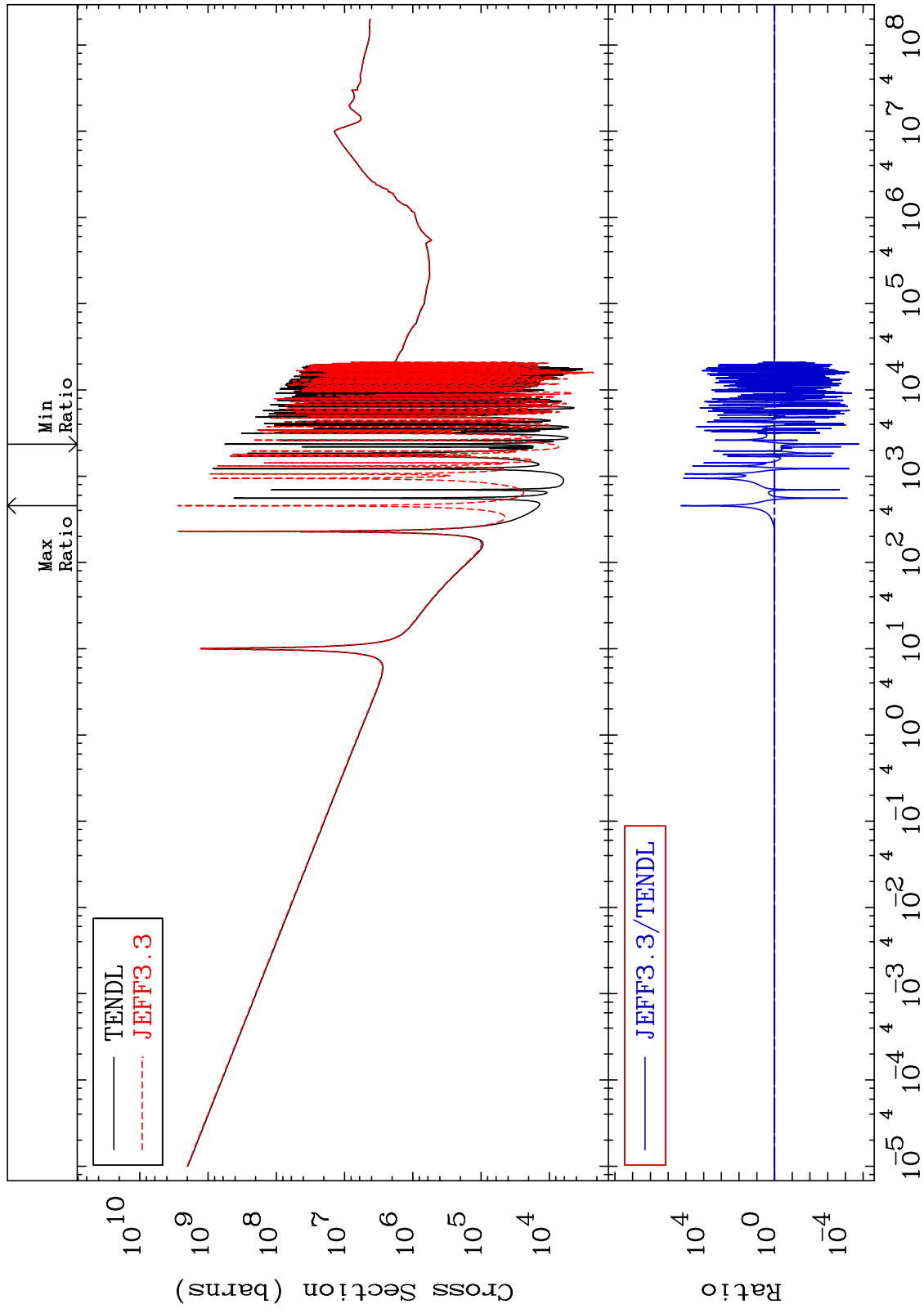
Incident Energy (eV)

44-Ru-100

MAT 4437

Total photon (eV-barns)  
Cross Section

44-Ru-100  
-100.0 To 9999. %

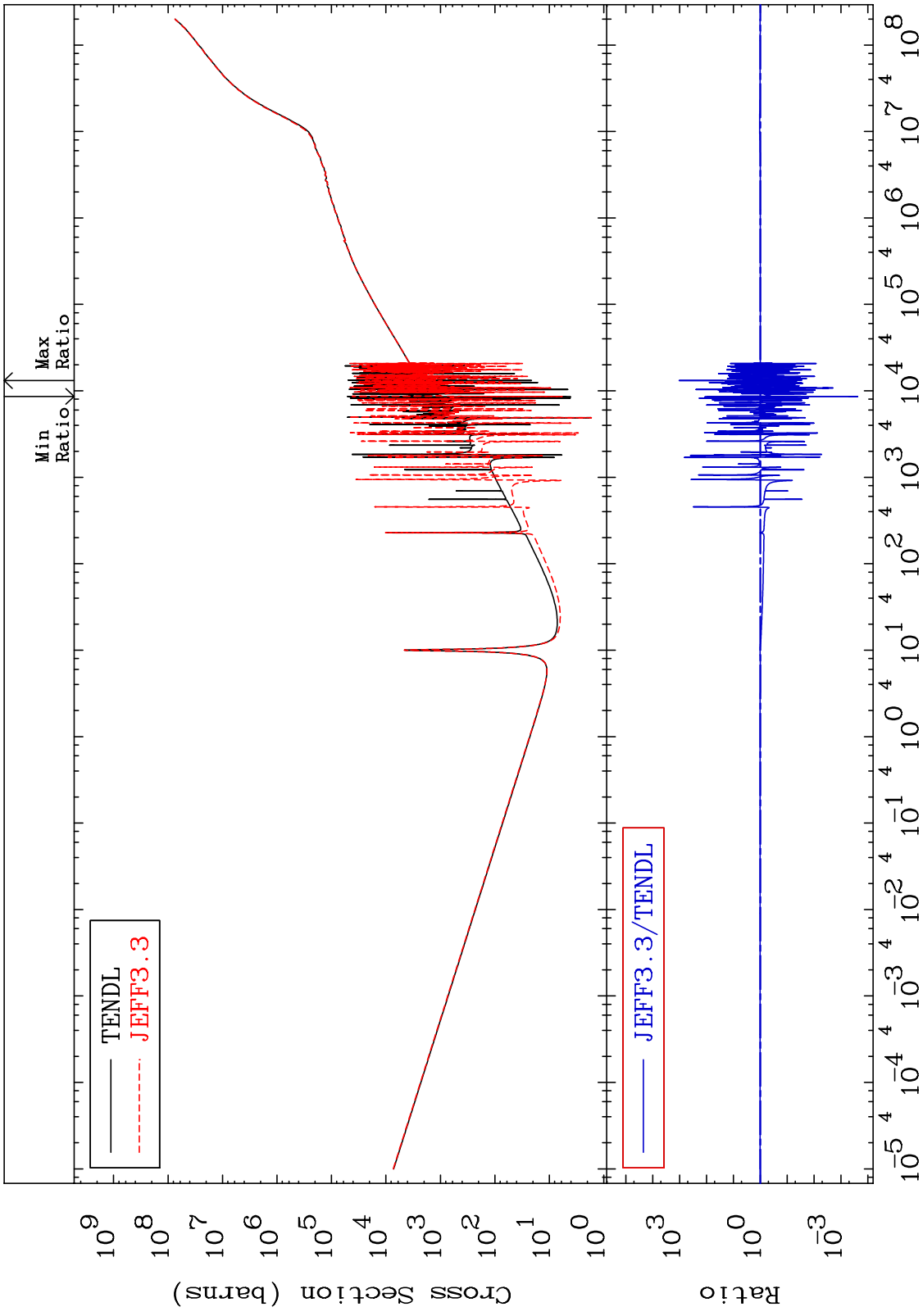


74

Incident Energy (eV)

44-Ru-100

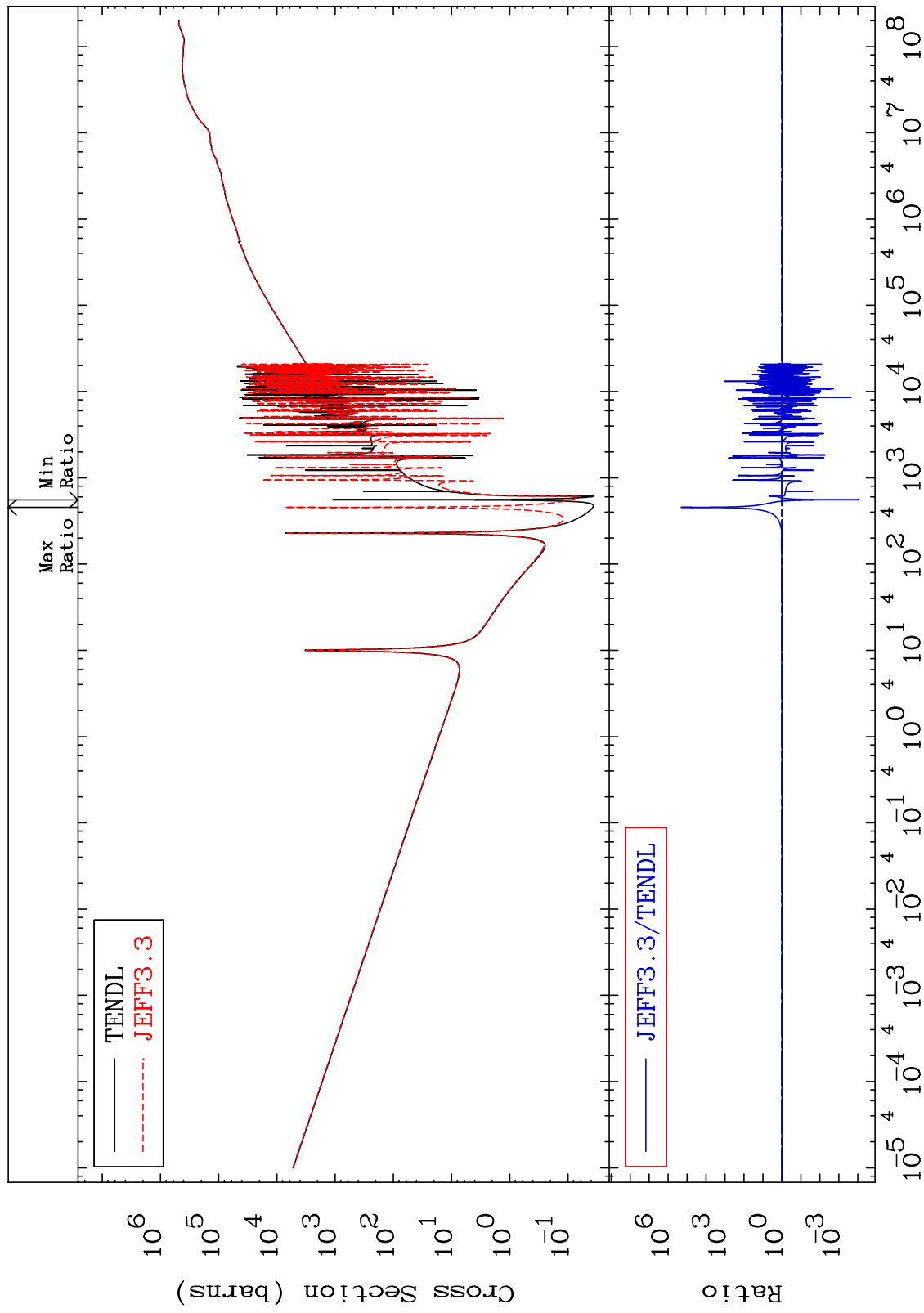
MAT 4437 Total kinematic kerma (high limit) 44-Ru-100  
Cross Section -99.98 To 9999. %



MAT 4437

Dpa total (eV-barns)  
Cross Section

44-Ru-100  
-99.99 To 9999. %



76

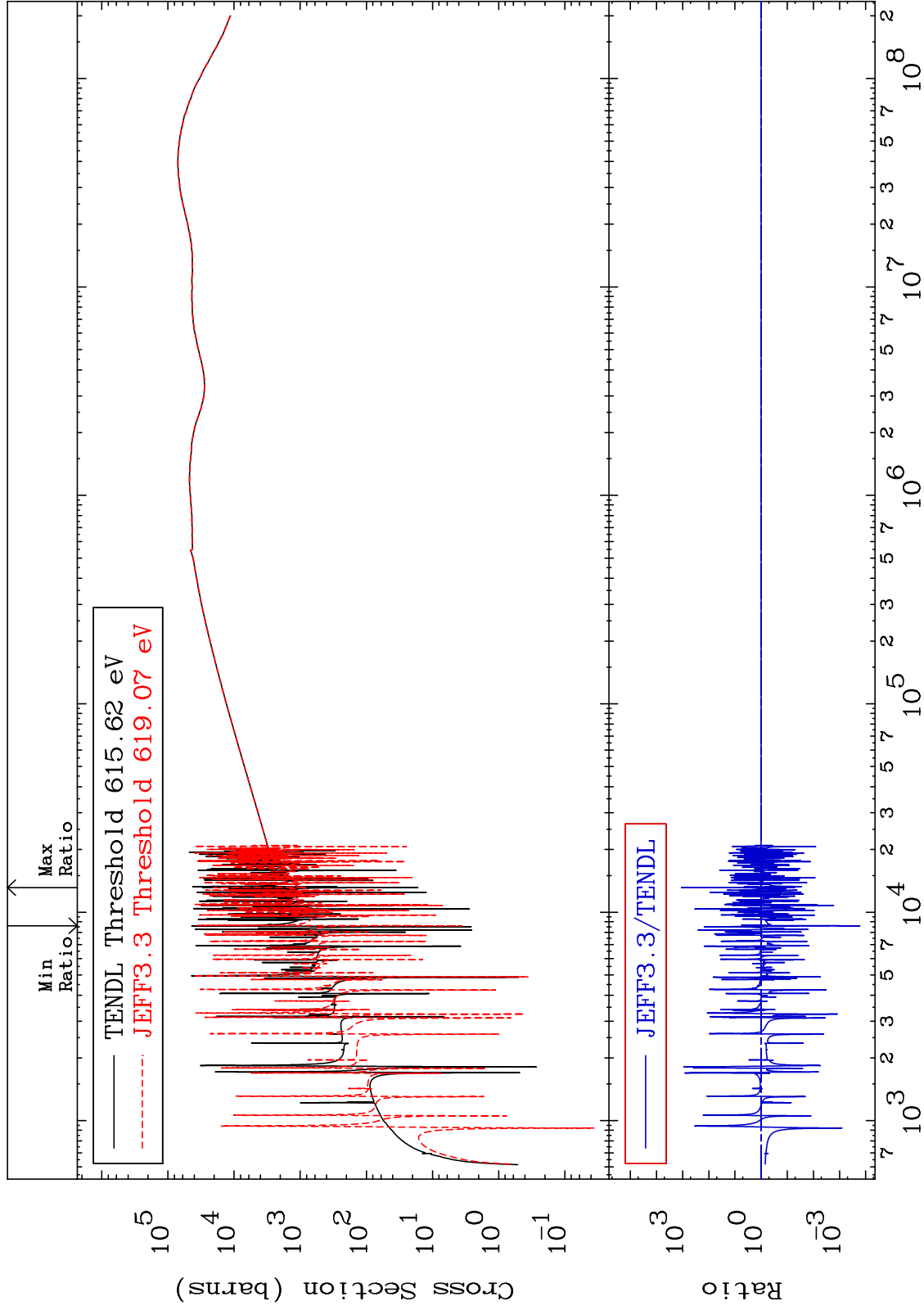
Incident Energy (eV)

44-Ru-100

MAT 4437

Dpa elastic (mt2)  
Cross Section

44-Ru-100  
-99.98 To 9999. %

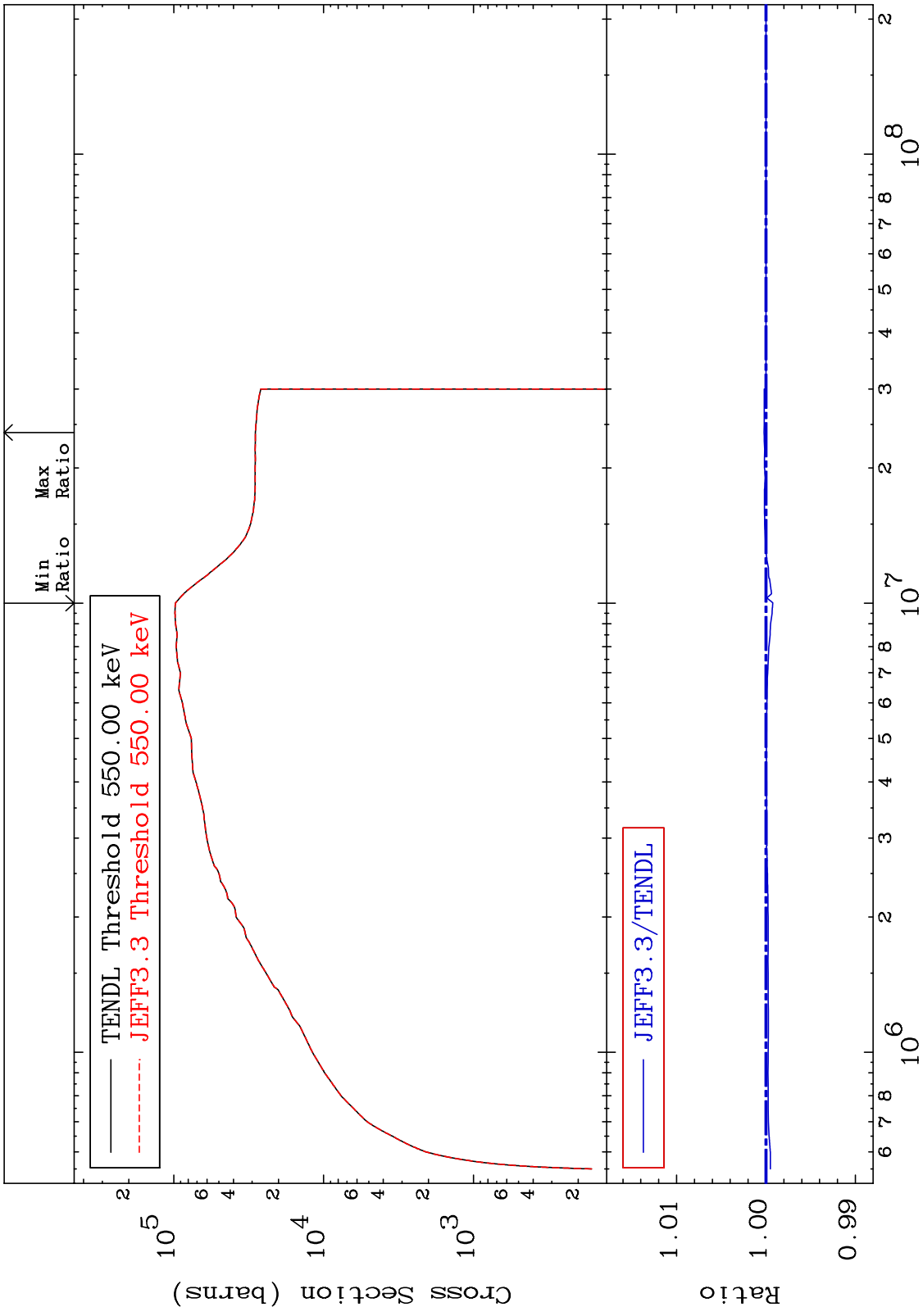


77

Incident Energy (eV)

44-Ru-100

MAT 4437      Dpa inelastic (mt51-91)      44-Ru-100  
 Cross Section      -0.076 To 0.021 %

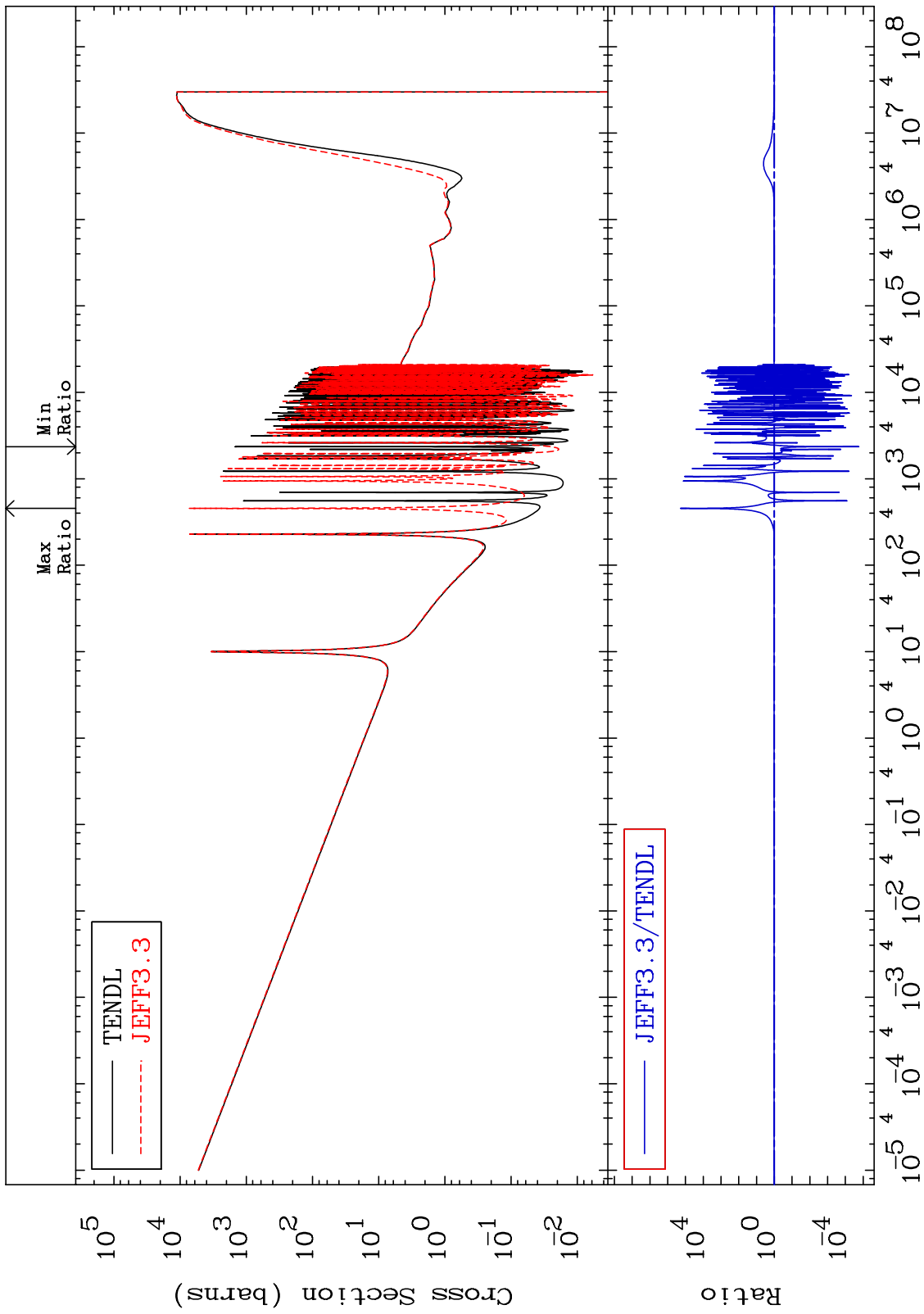


78      Incident Energy (eV)      44-Ru-100

MAT 4437

Dpa disappearance (mt102 -120)  
Cross Section

44-Ru-100  
-100.0 To 9999. %



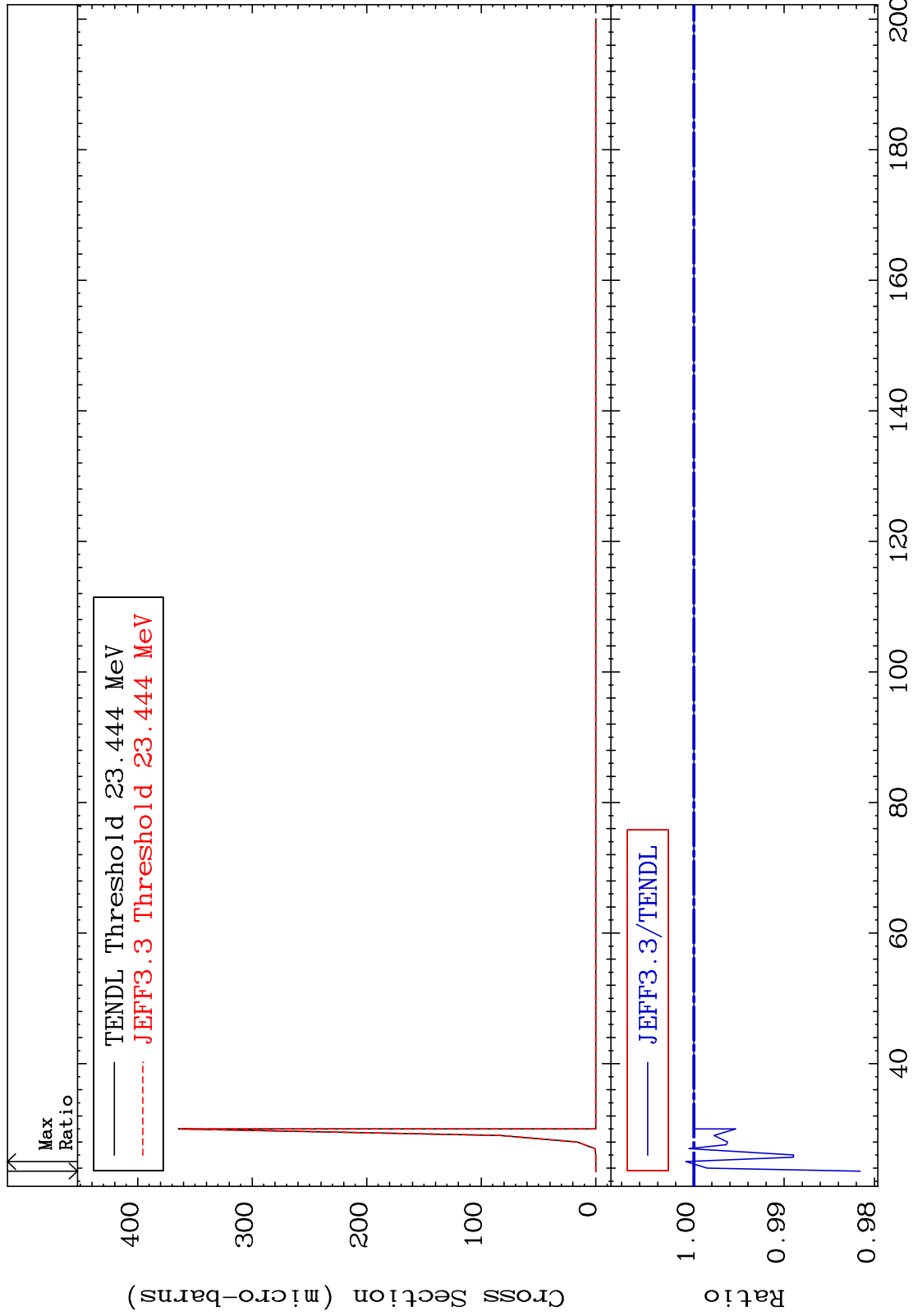


MAT 4437

(n,2n) d:43-Tc-97g

44-Ru-100

Radionuclide Production Cross Section -1.842 To 0.089 %



80

Incident Energy (MeV)

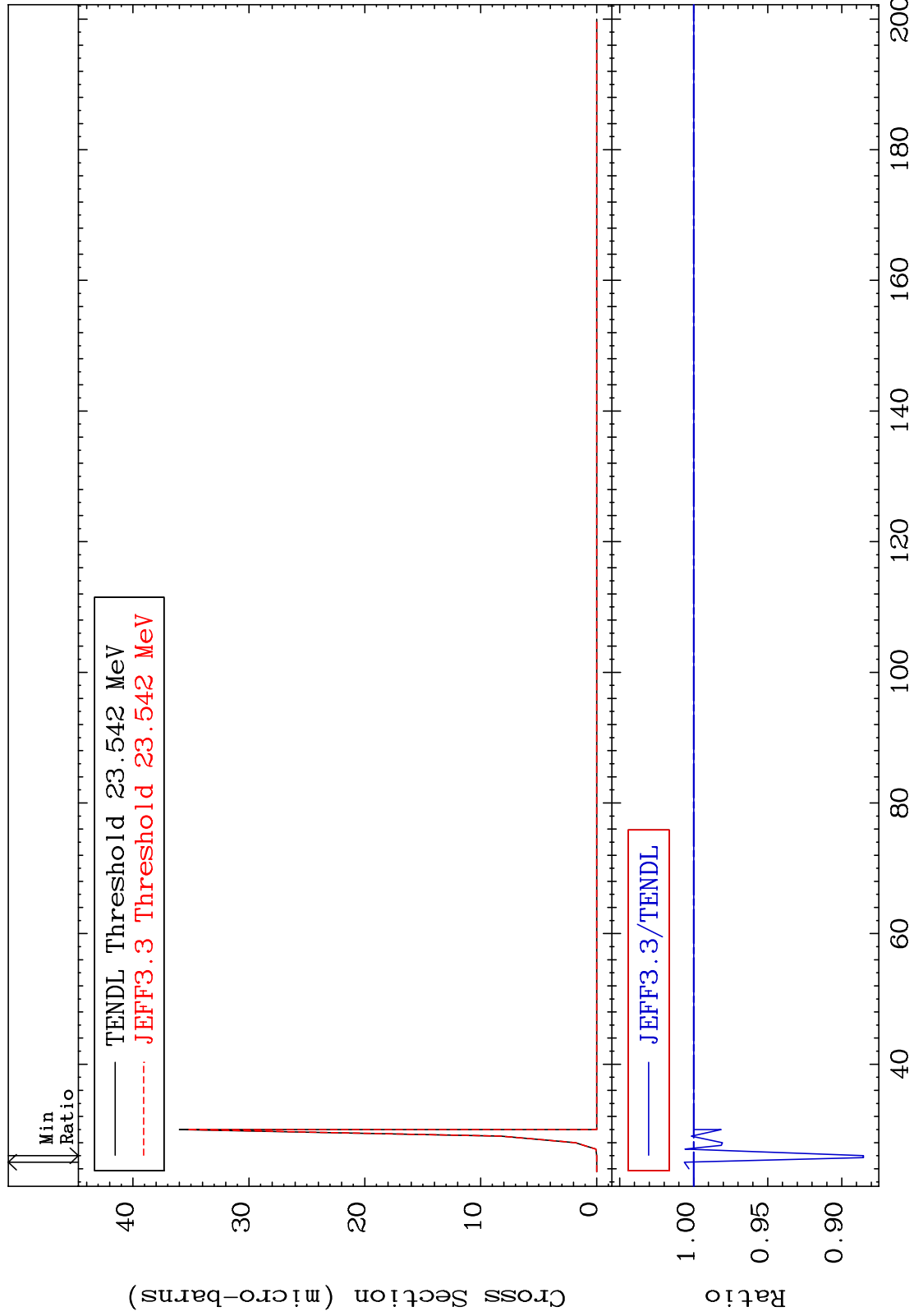
44-Ru-100

MAT 4437

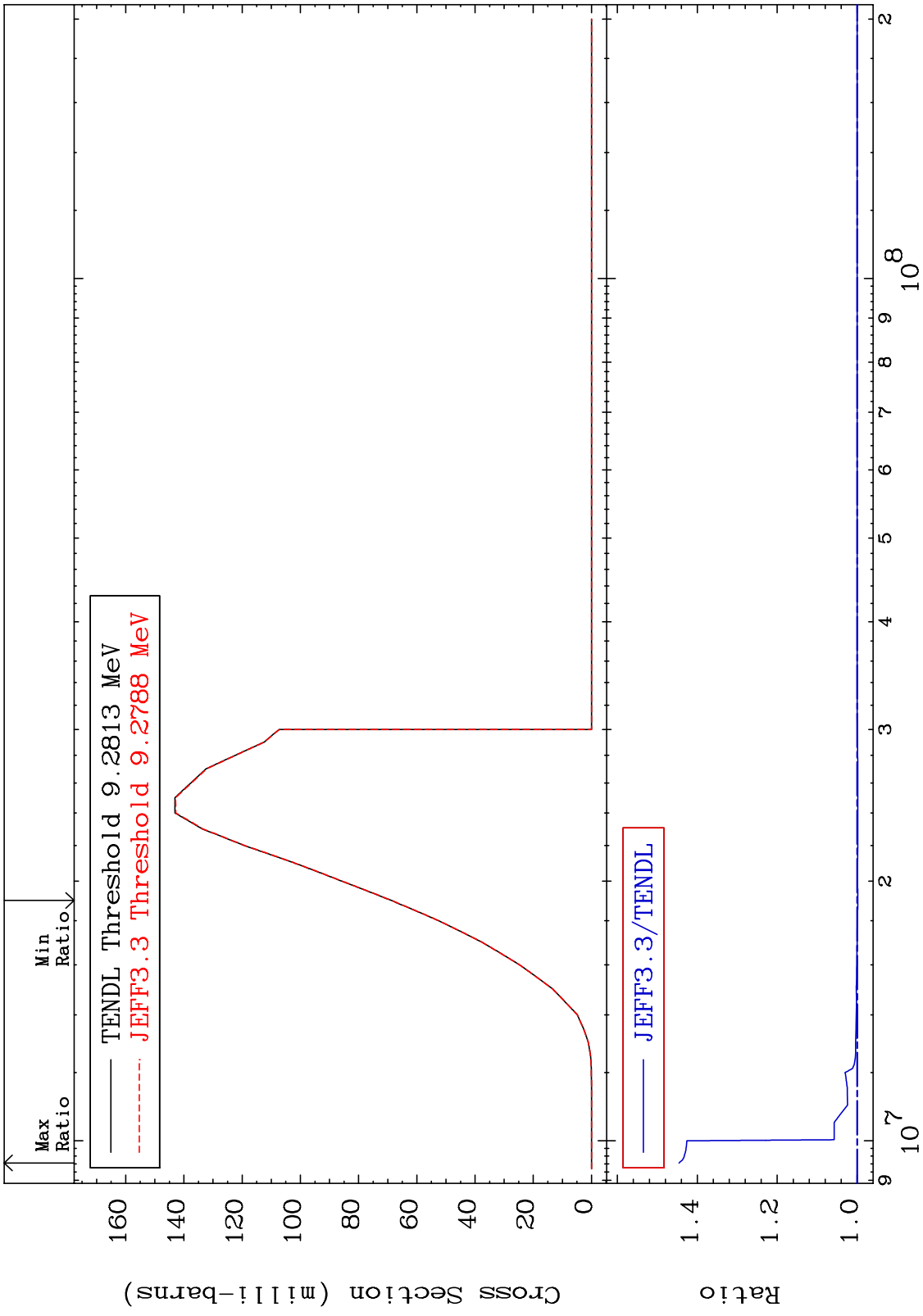
(n,2n) d:43-Tc-97m1

44-Ru-100

Radionuclide Production Cross Section -11.48 To 0.628 %



MAT 4437 (n, n') p:43-Tc-99g 44-Ru-100  
 Radionuclide Production Cross Section -0.179 To 44.57 %

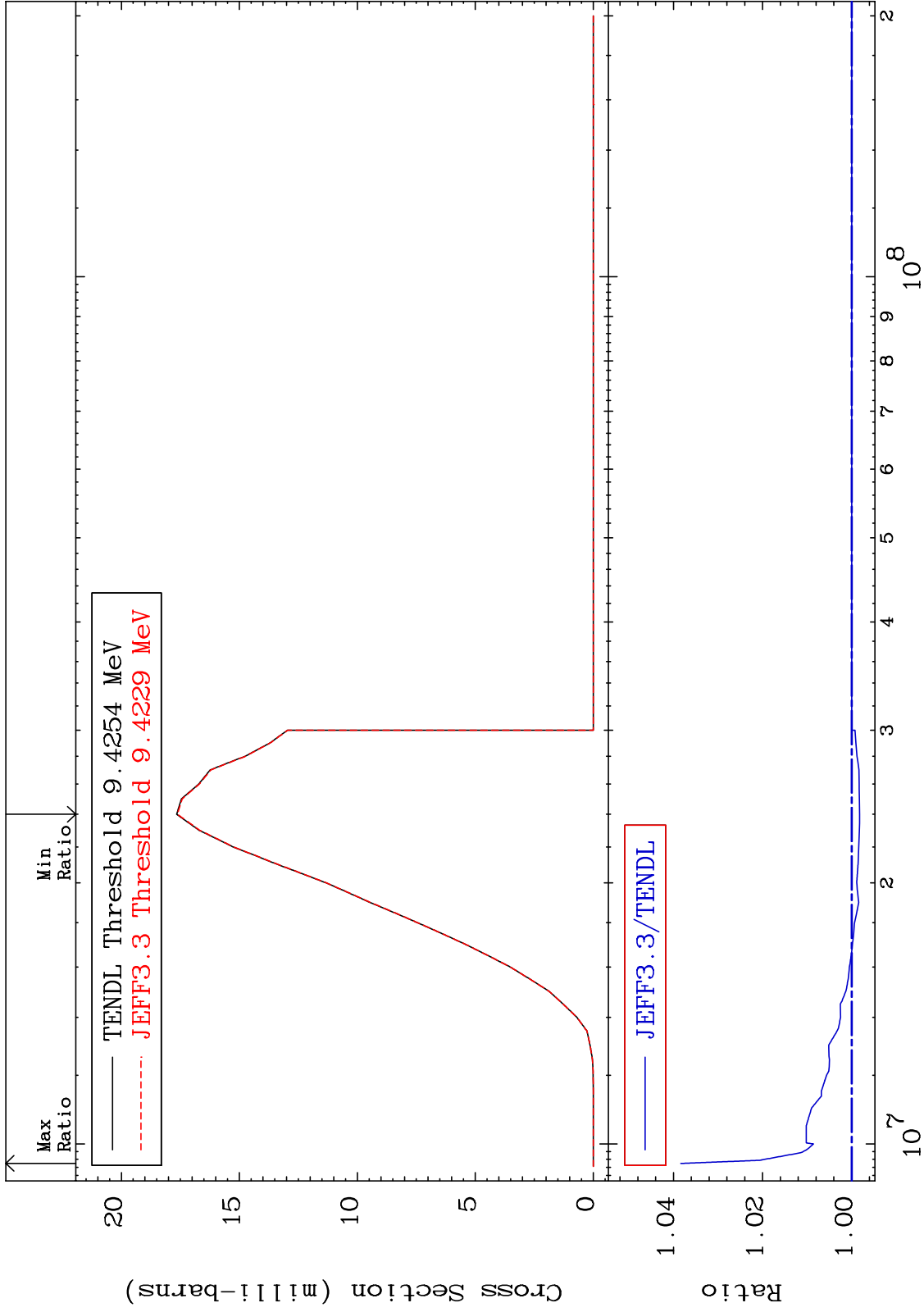


MAT 4437

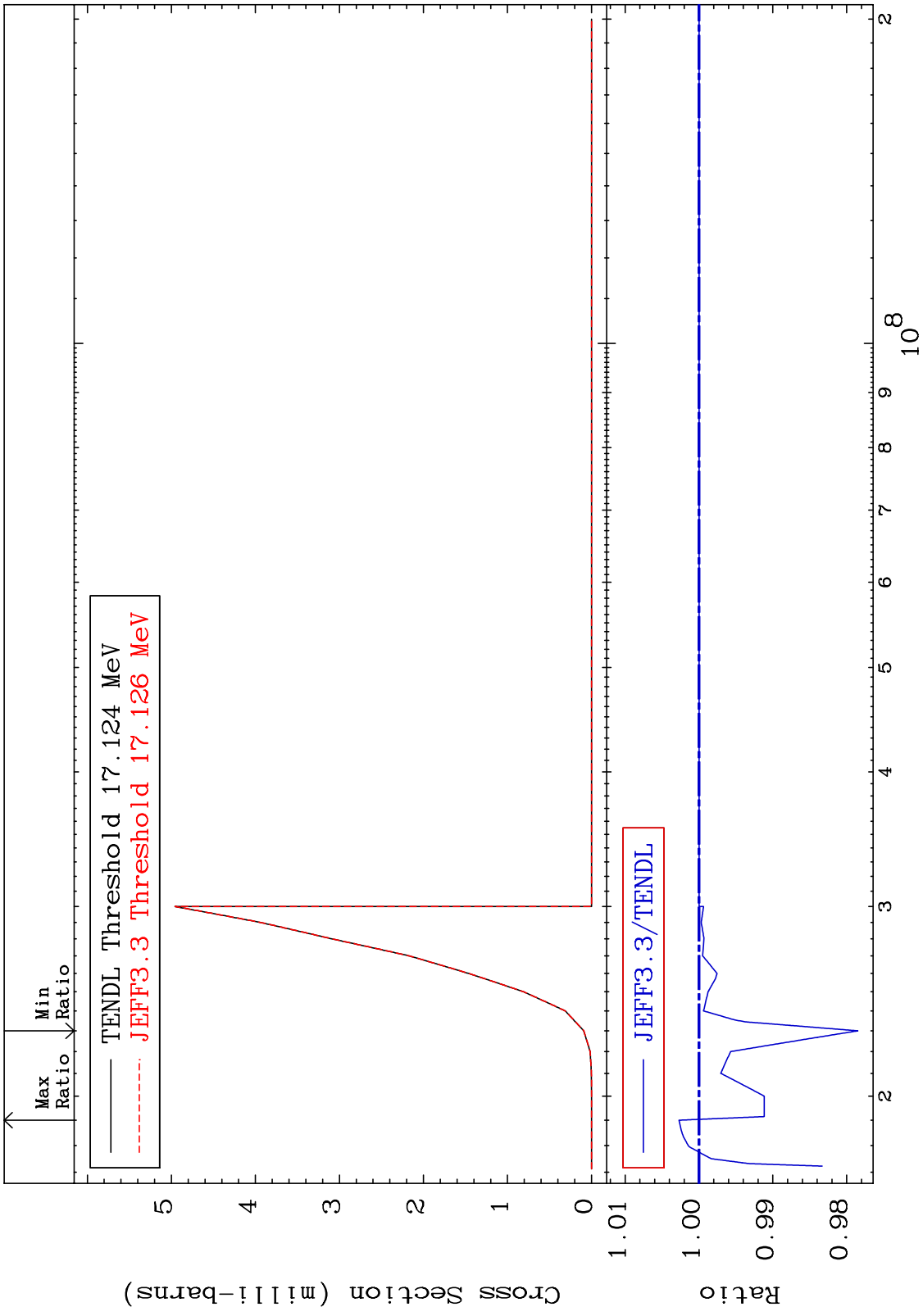
(n, n') p:43-Tc-99m2

44-Ru-100

Radionuclide Production Cross Section -0.179 To 3.836 %



MAT 4437 (n, n') t: 43-Tc-97g 44-Ru-100  
 Radionuclide Production Cross Section -2.150 To 0.270 %

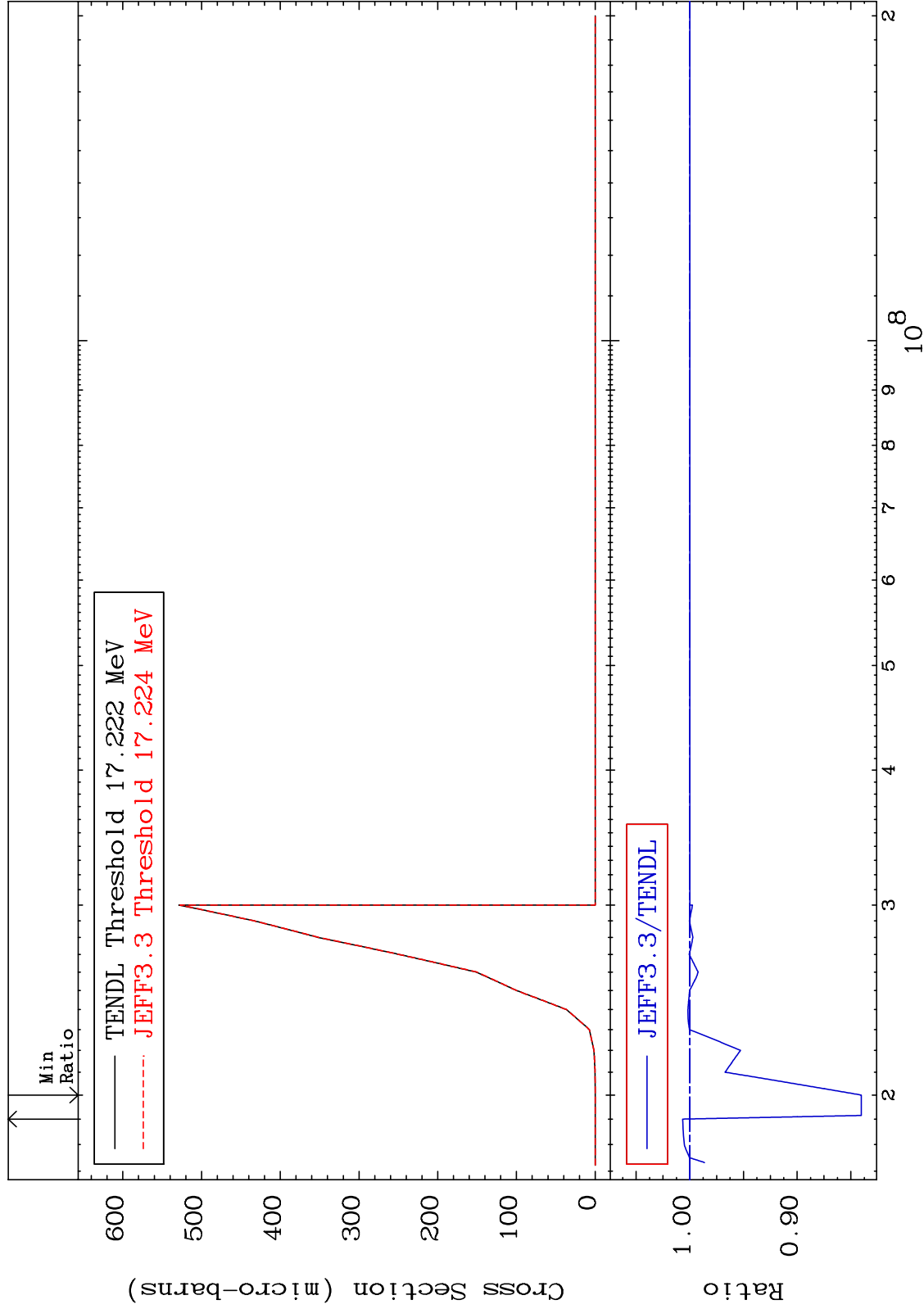


MAT 4437

(n, n') t:43-Tc-97m1

44-Ru-100

Radionuclide Production Cross Section -15.98 To 0.664 %



85

Incident Energy (eV)

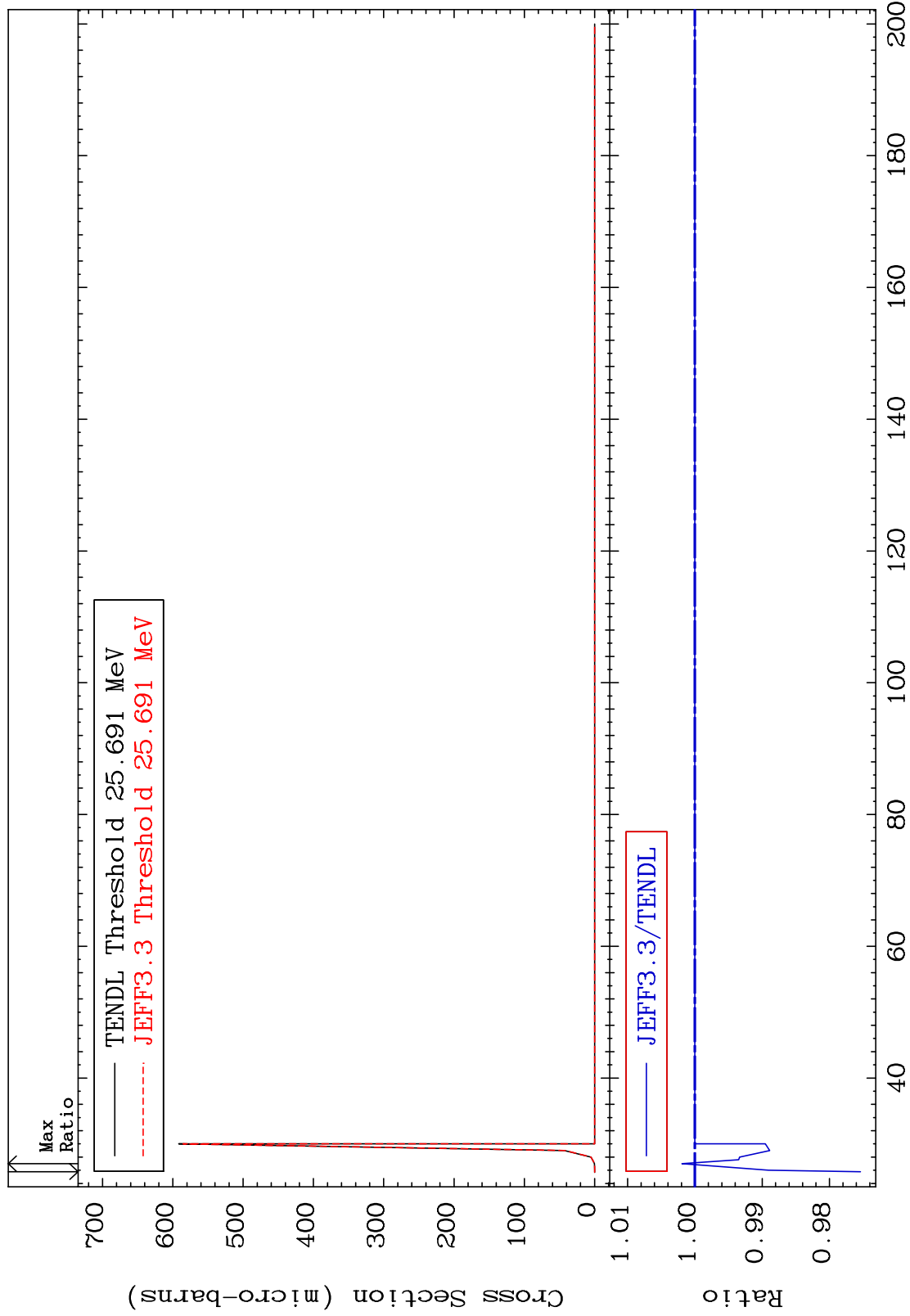
44-Ru-100

MAT 4437

(n, 3n) p:43-Tc-97g

44-Ru-100

Radionuclide Production Cross Section -2.462 To 0.191 %

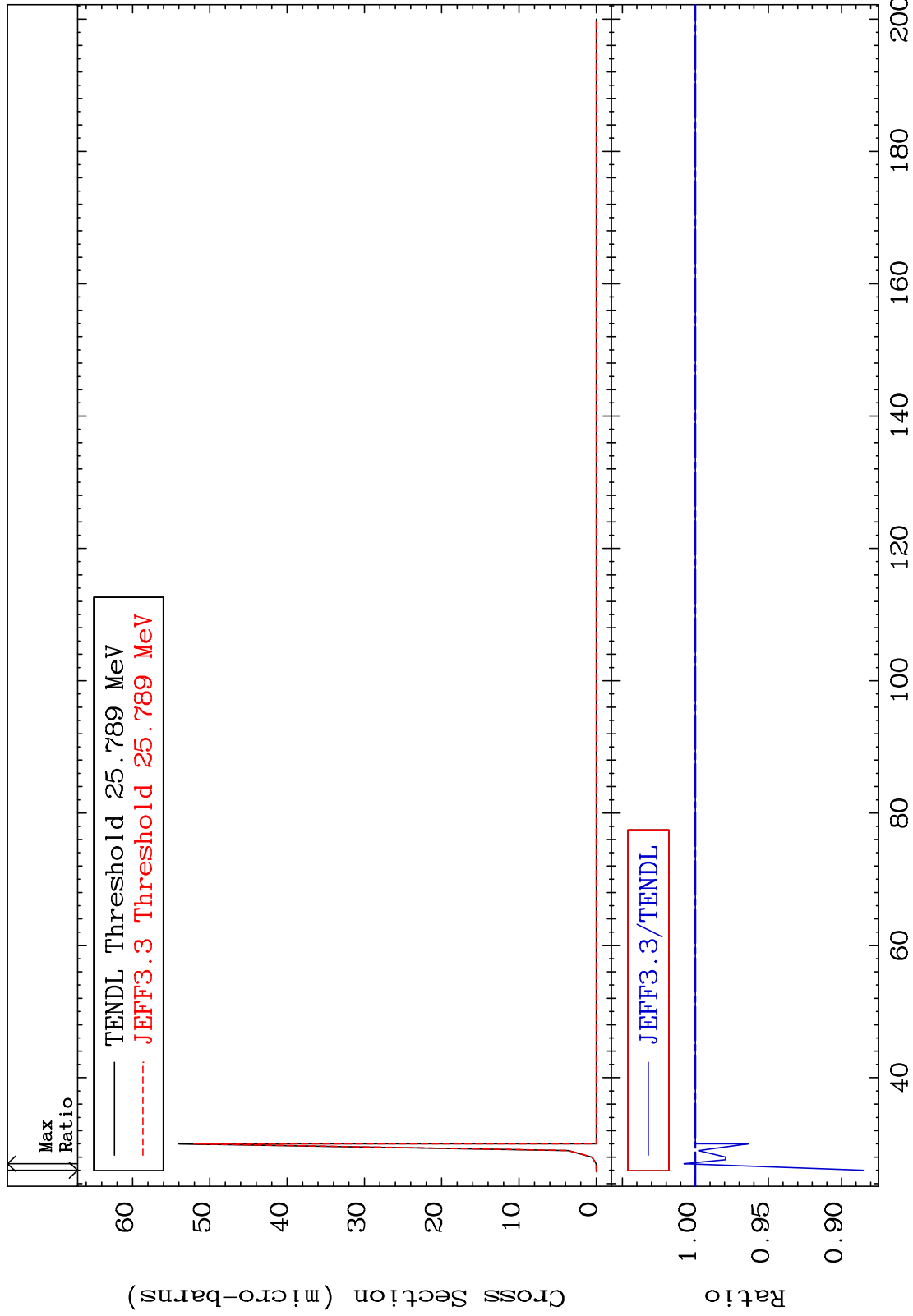


MAT 4437

(n,3n) p:43-Tc-97m1

44-Ru-100

Radionuclide Production Cross Section -11.49 To 0.774 %



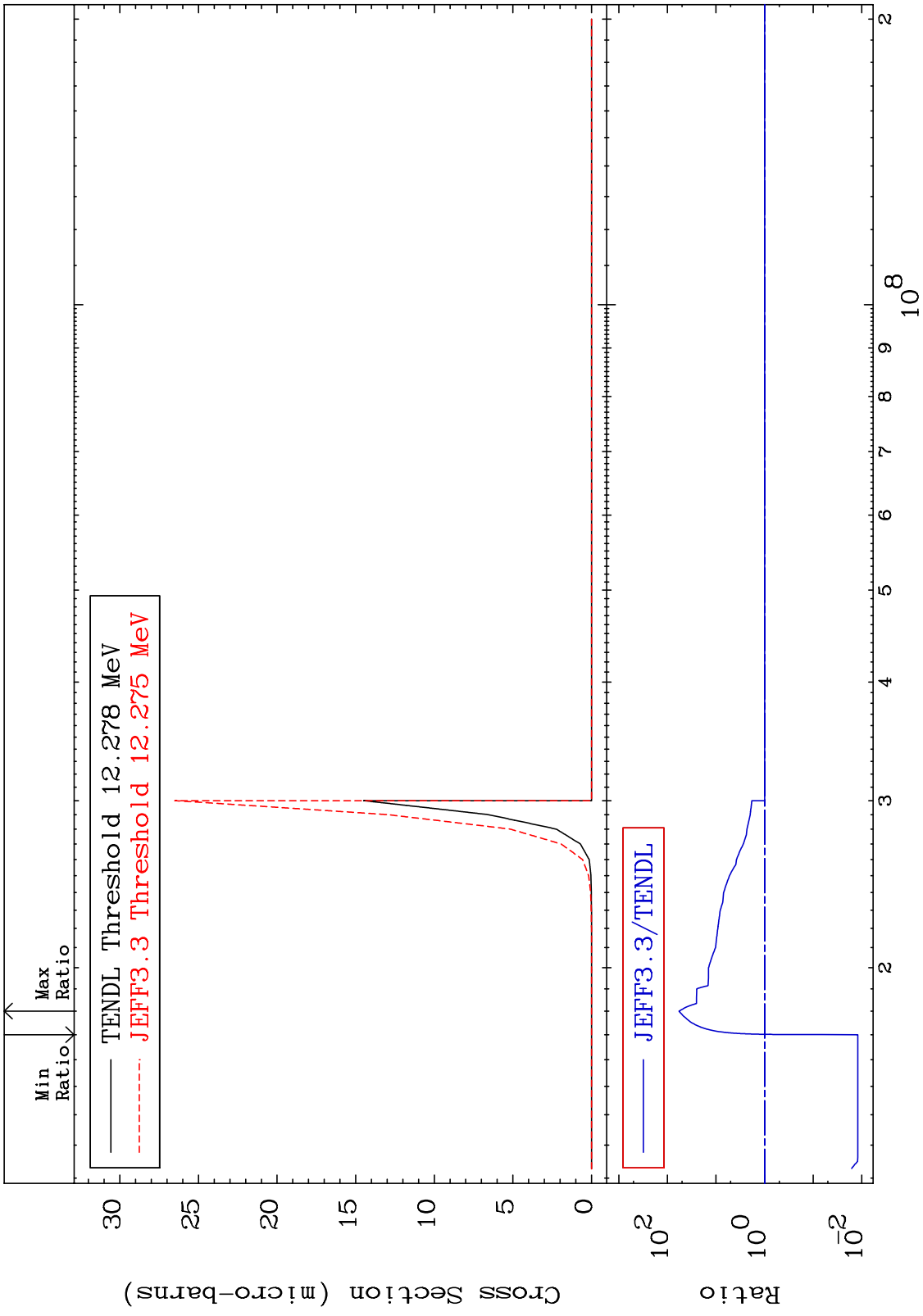
87

Incident Energy (MeV)

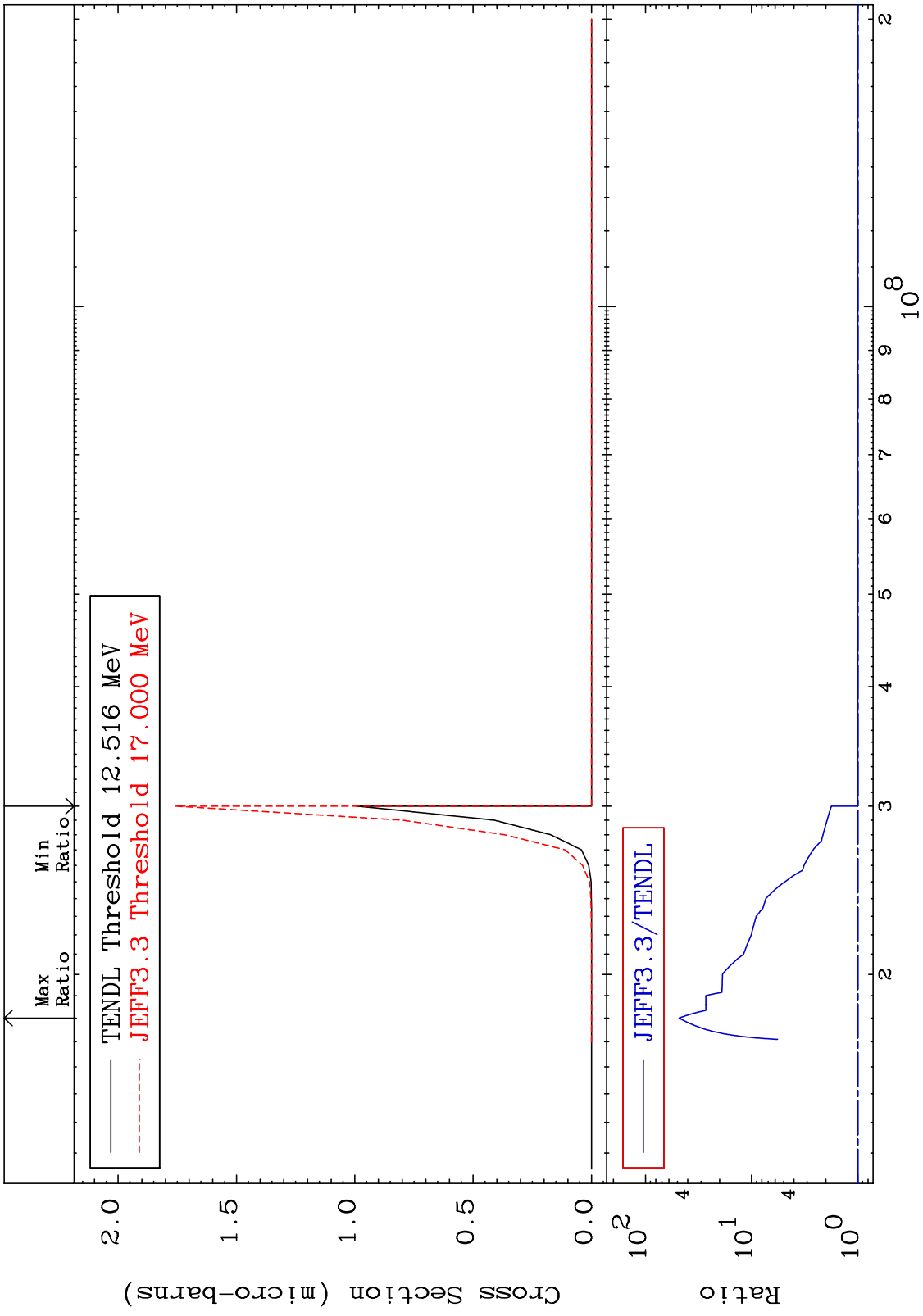
44-Ru-100



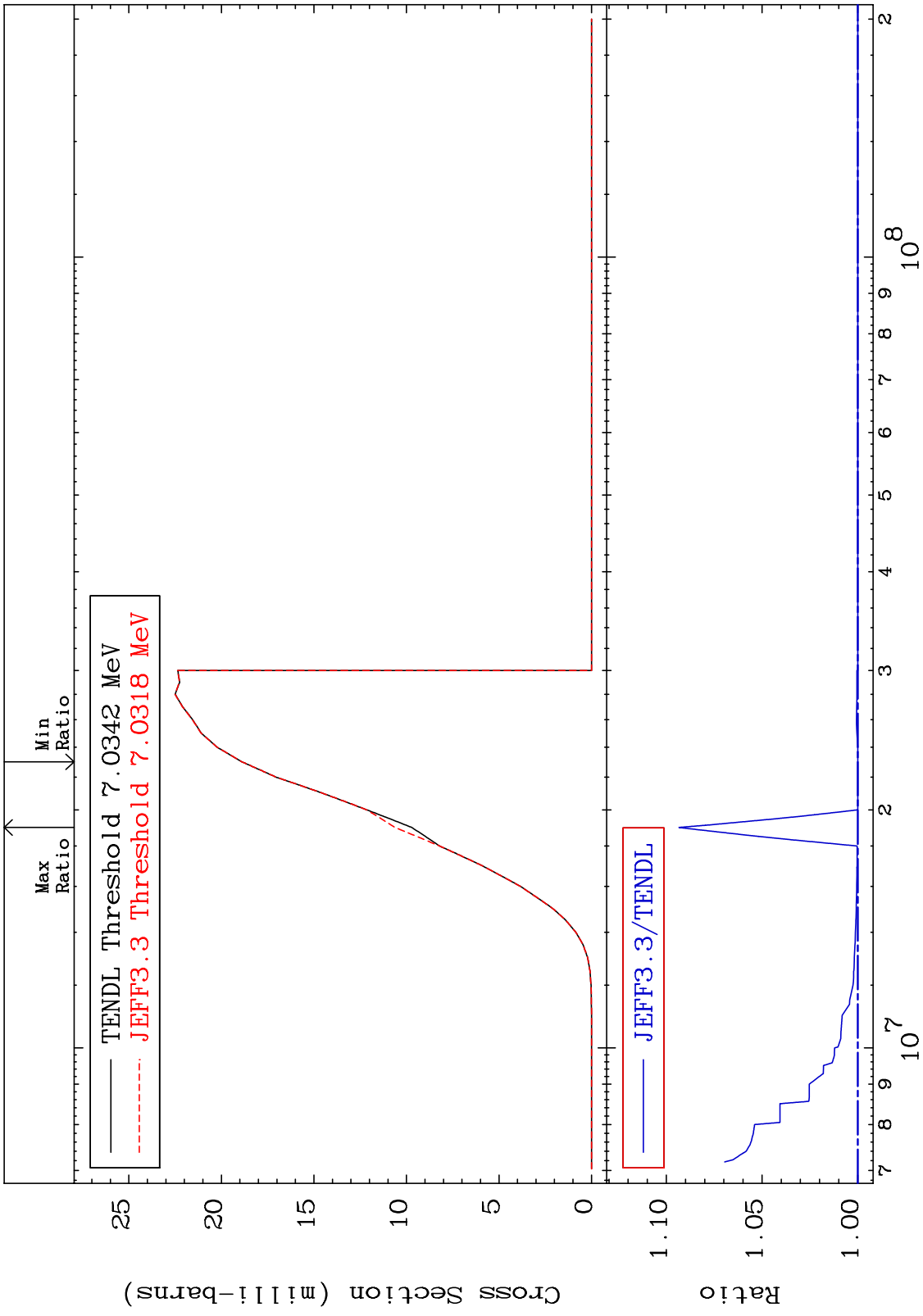
MAT 4437 (n,n') p  $\alpha$ :41-Nb-95g 44-Ru-100  
 Radionuclide Production Cross Section -98.80 To 5672. %



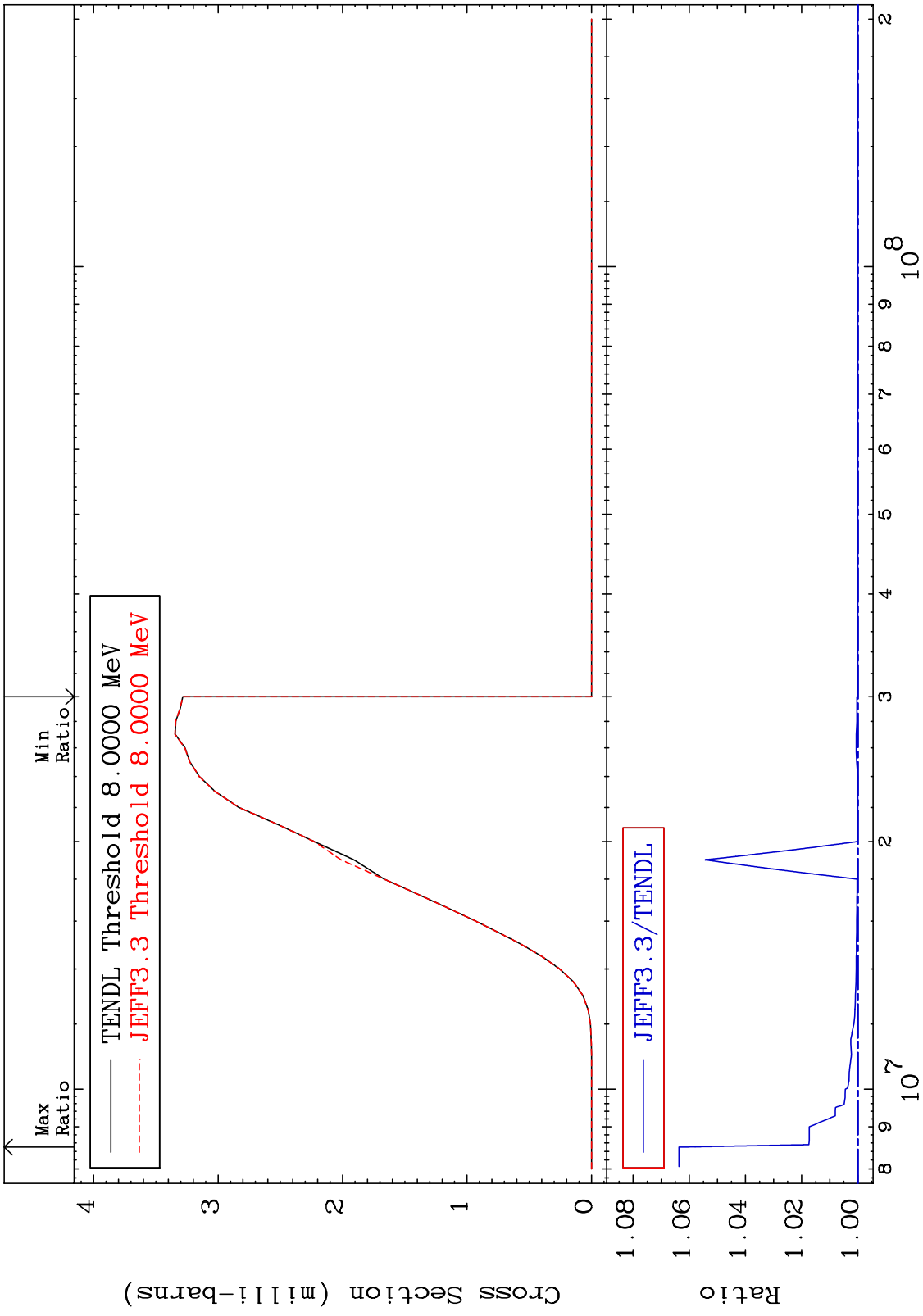
MAT 4437 (n,n') p α:41-Nb-95m1 44-Ru-100  
 Radionuclide Production Cross Section 0.000 To 4725. %



MAT 4437 (n,d):43-Tc-99g 44-Ru-100  
 Radionuclide Production Cross Section 0.000 To 9.338 %

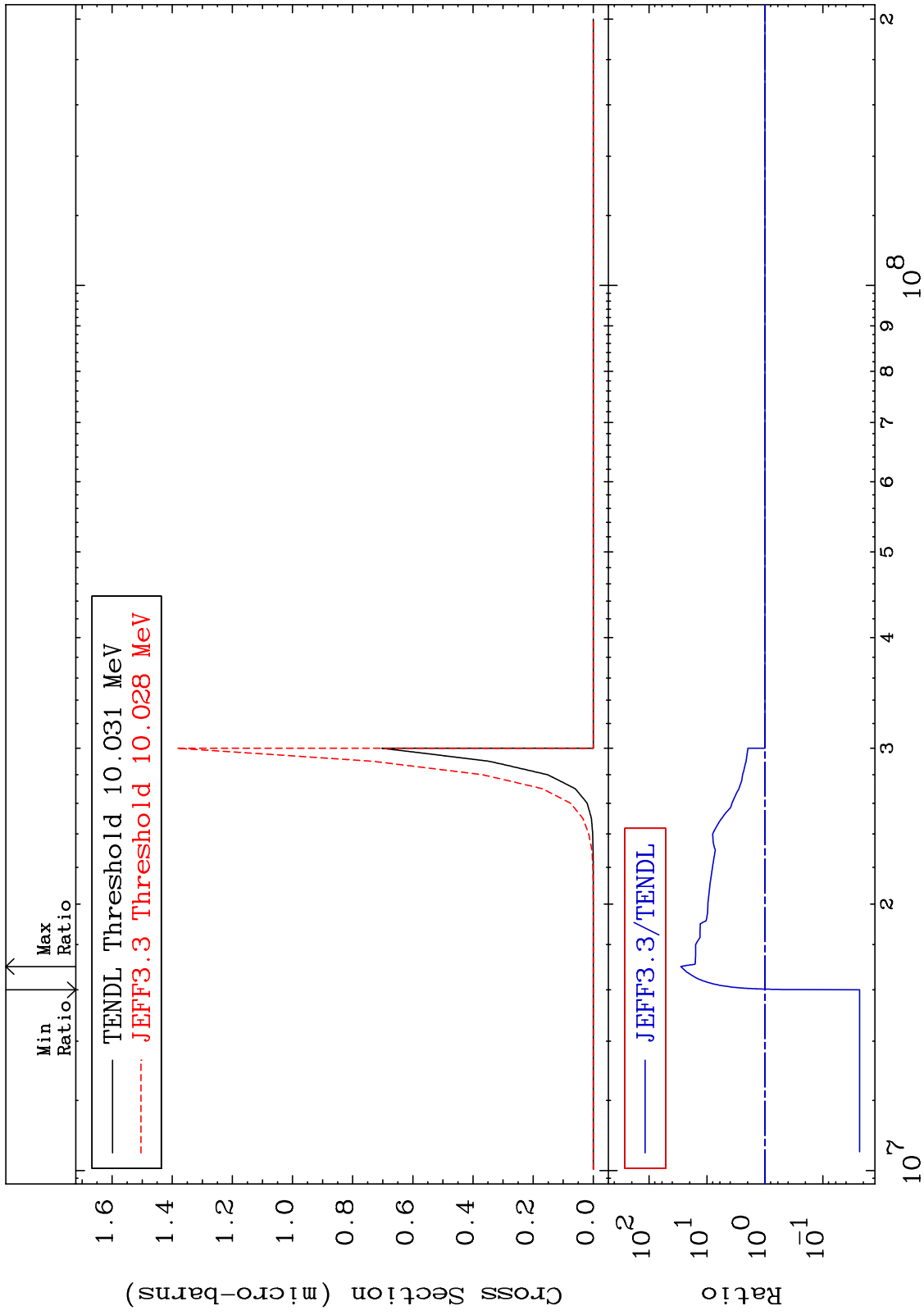


MAT 4437 (n,d):43-Tc-99m2 44-Ru-100  
 Radionuclide Production Cross Section 0.000 To 6.366 %



MAT 4437

(n, d)  $\alpha$ : 41-Nb-95g 44-Ru-100  
Radionuclide Production Cross Section -97.68 To 2738. %



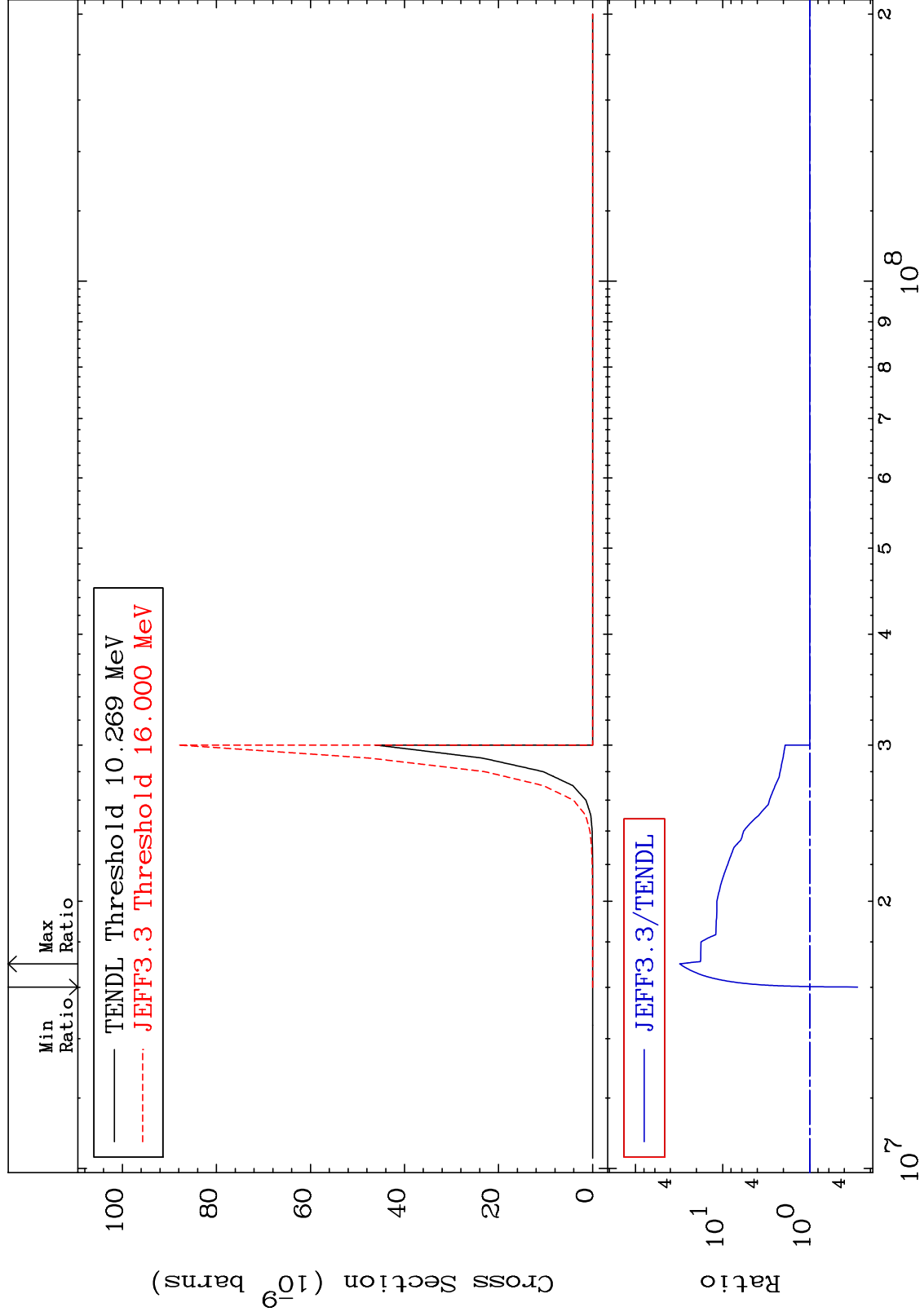
92

MAT 4437

(n, d)  $\alpha$ : 41-Nb-95m1

44-Ru-100

Radionuclide Production Cross Section -71.90 To 3012. %



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