

Program Complot  
(Version 2018-1)

by

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Press Mouse Button to Start

MAT 4319

43-Tc-97

-99.97 To 9999. %

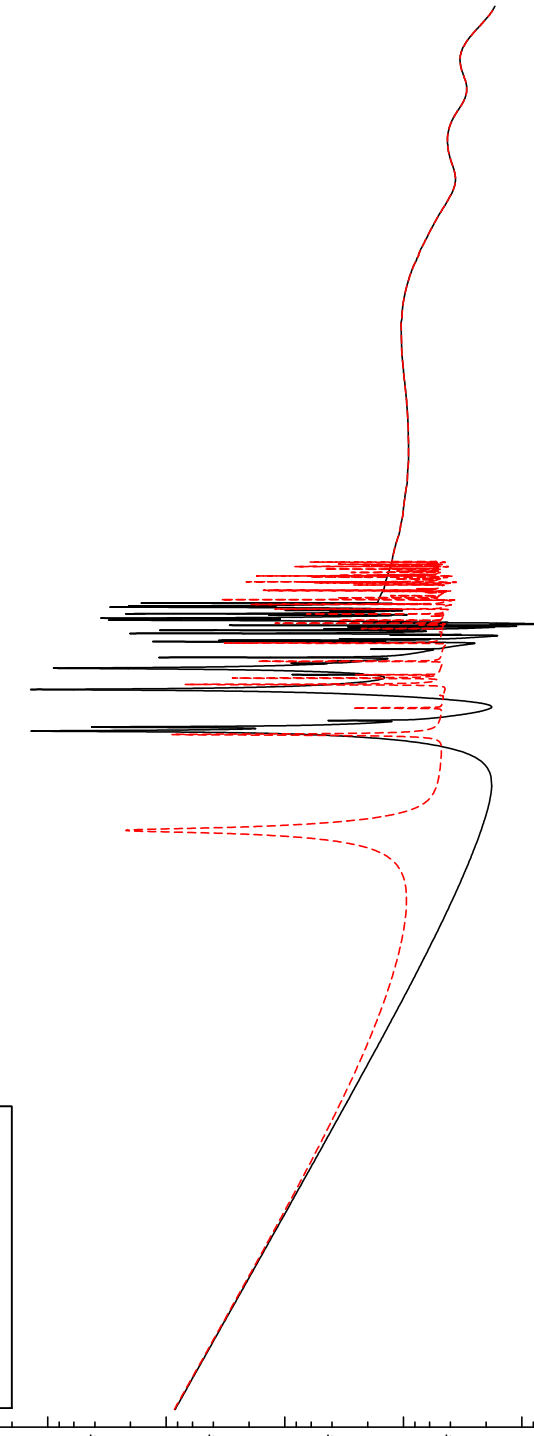
Total  
Cross Section

Max Ratio

Min Ratio

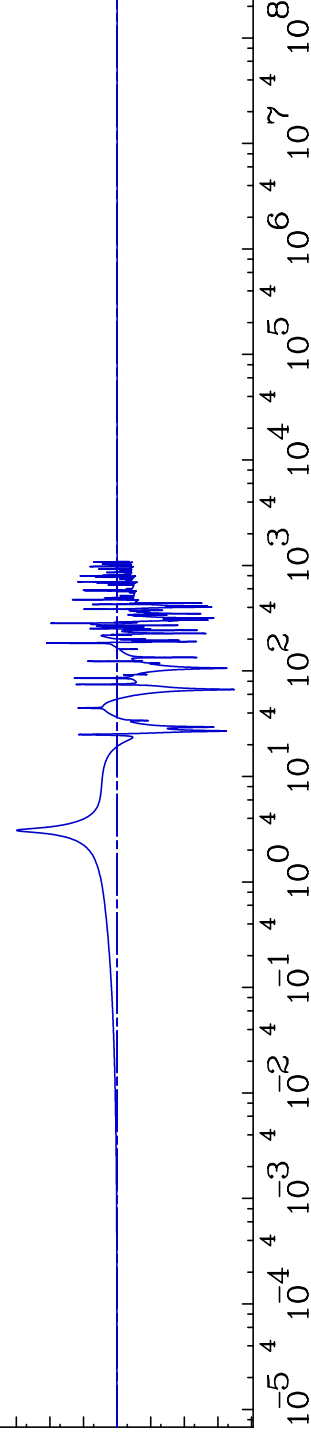
— TENDL  
- - - JEFF3.3

Cross Section (barns)



— JEFF3.3/TENDL

Ratio



Incident Energy (eV)

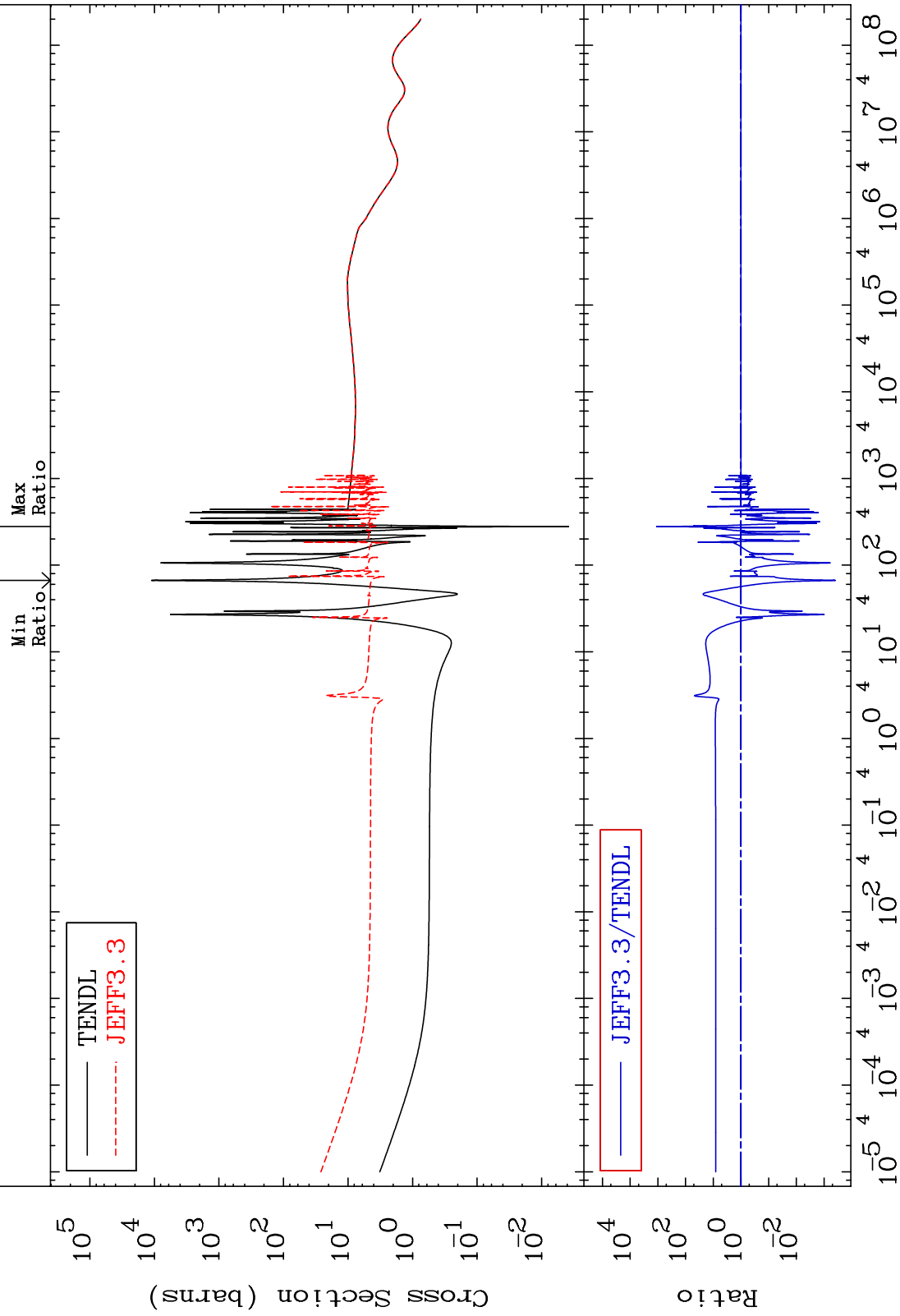
43-Tc-97

1

MAT 4319

Elastic  
Cross Section

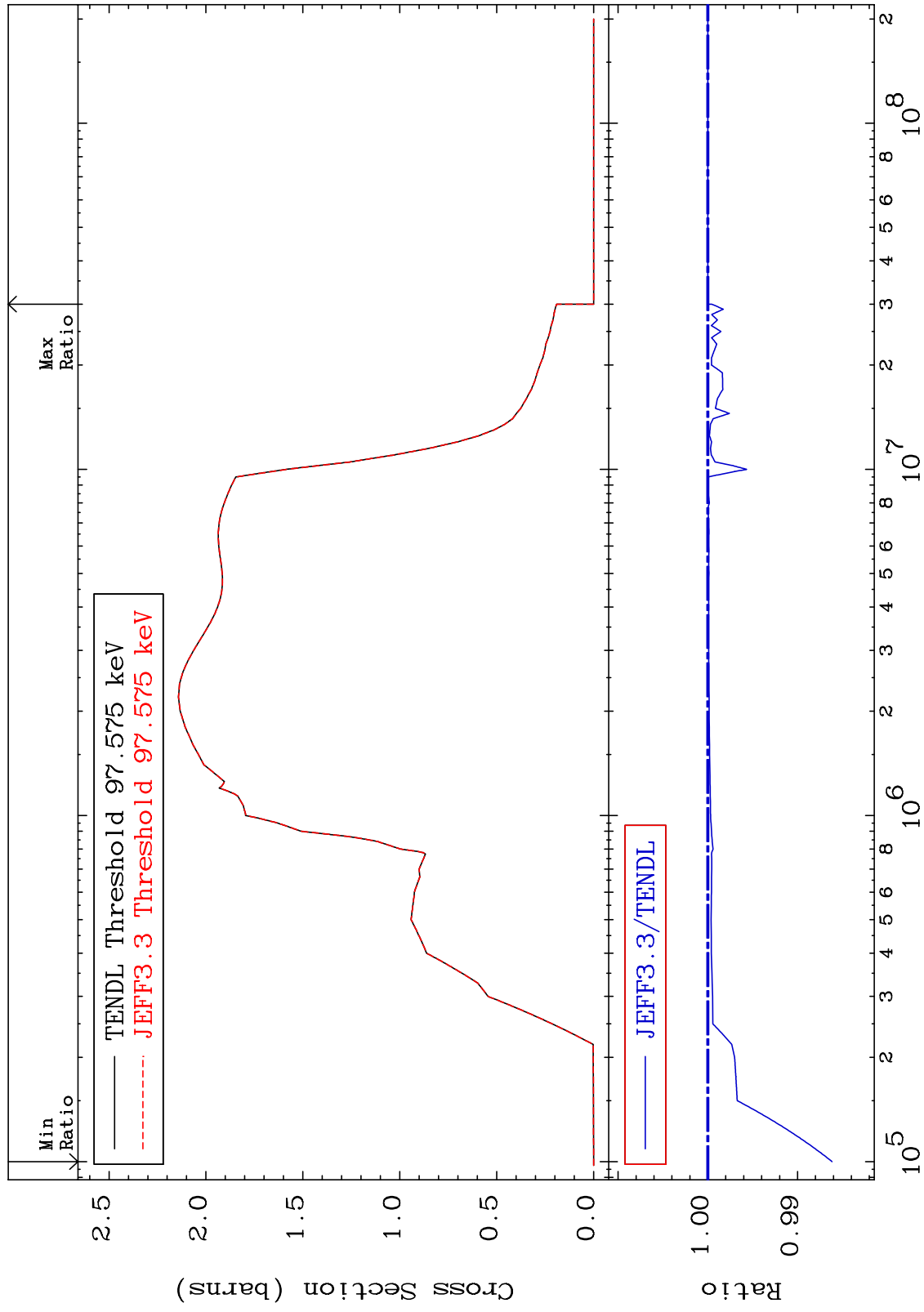
43-Tc-97  
-99.96 To 9999. %



MAT 4319

Inelastic  
Cross Section

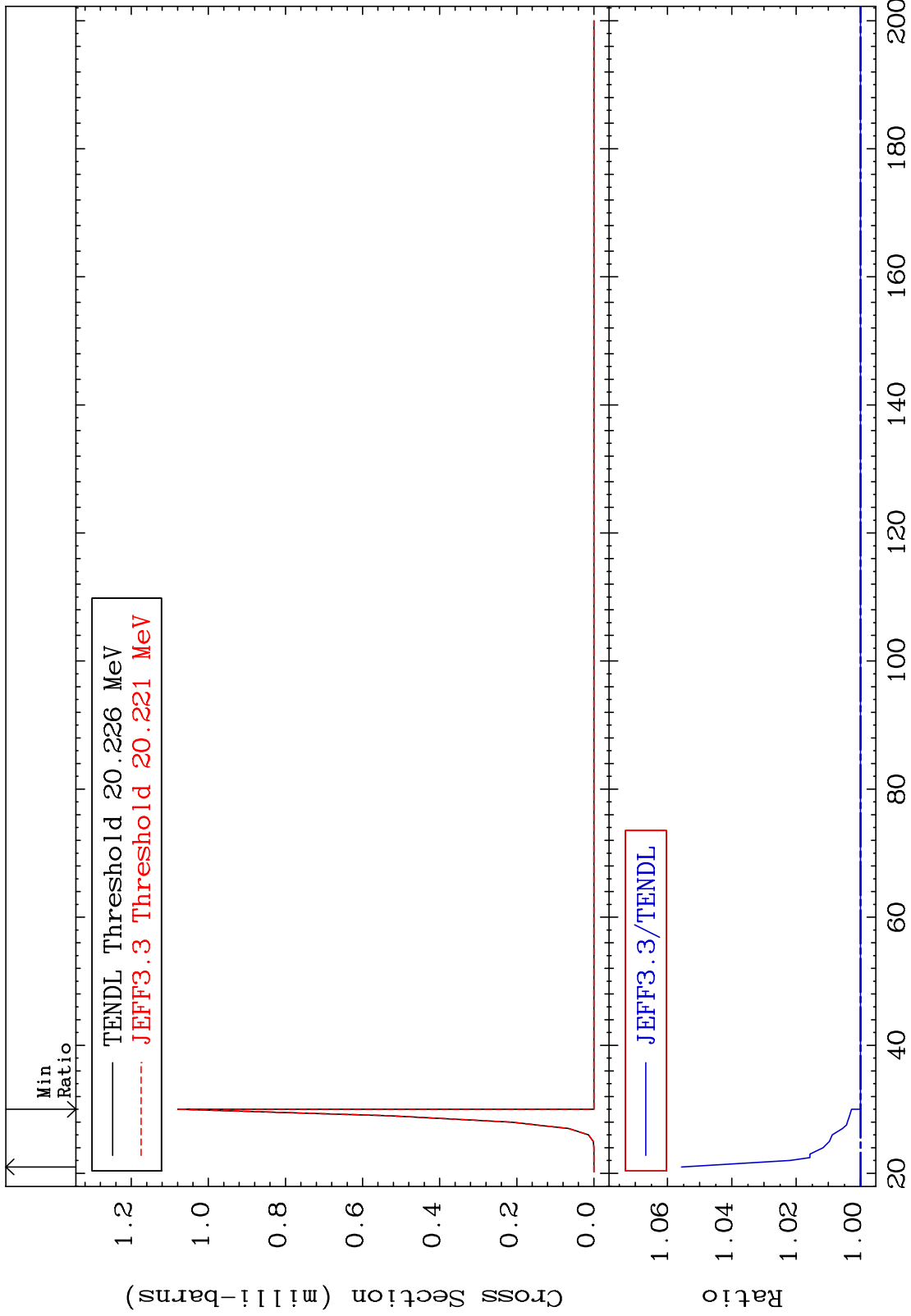
43-Tc-97  
-1.385 To 0.000 %



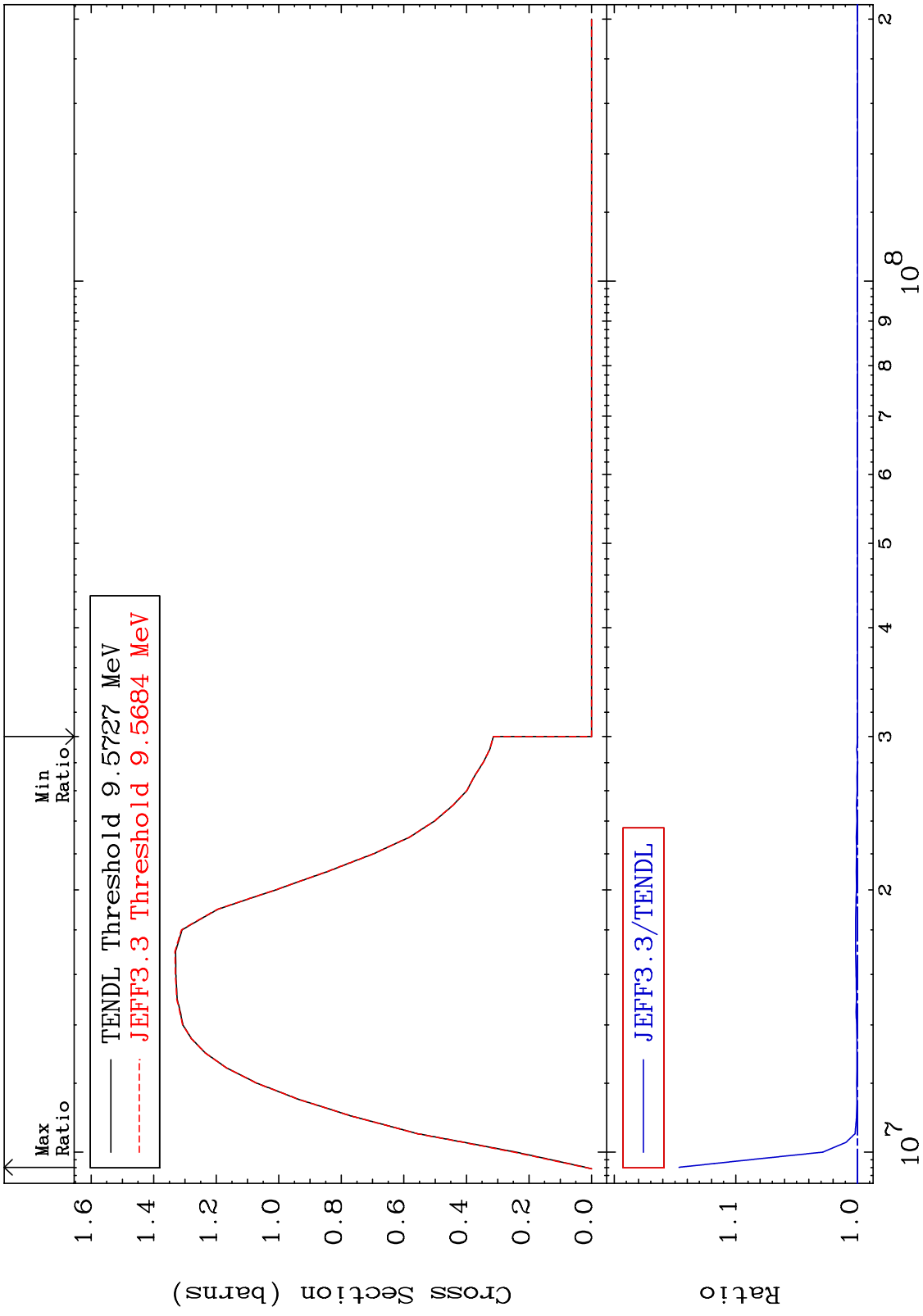
Incident Energy (eV)

43-Tc-97

MAT 4319 (n,2n) d 43-Tc-97  
 Cross Section 0.000 To 5.564 %

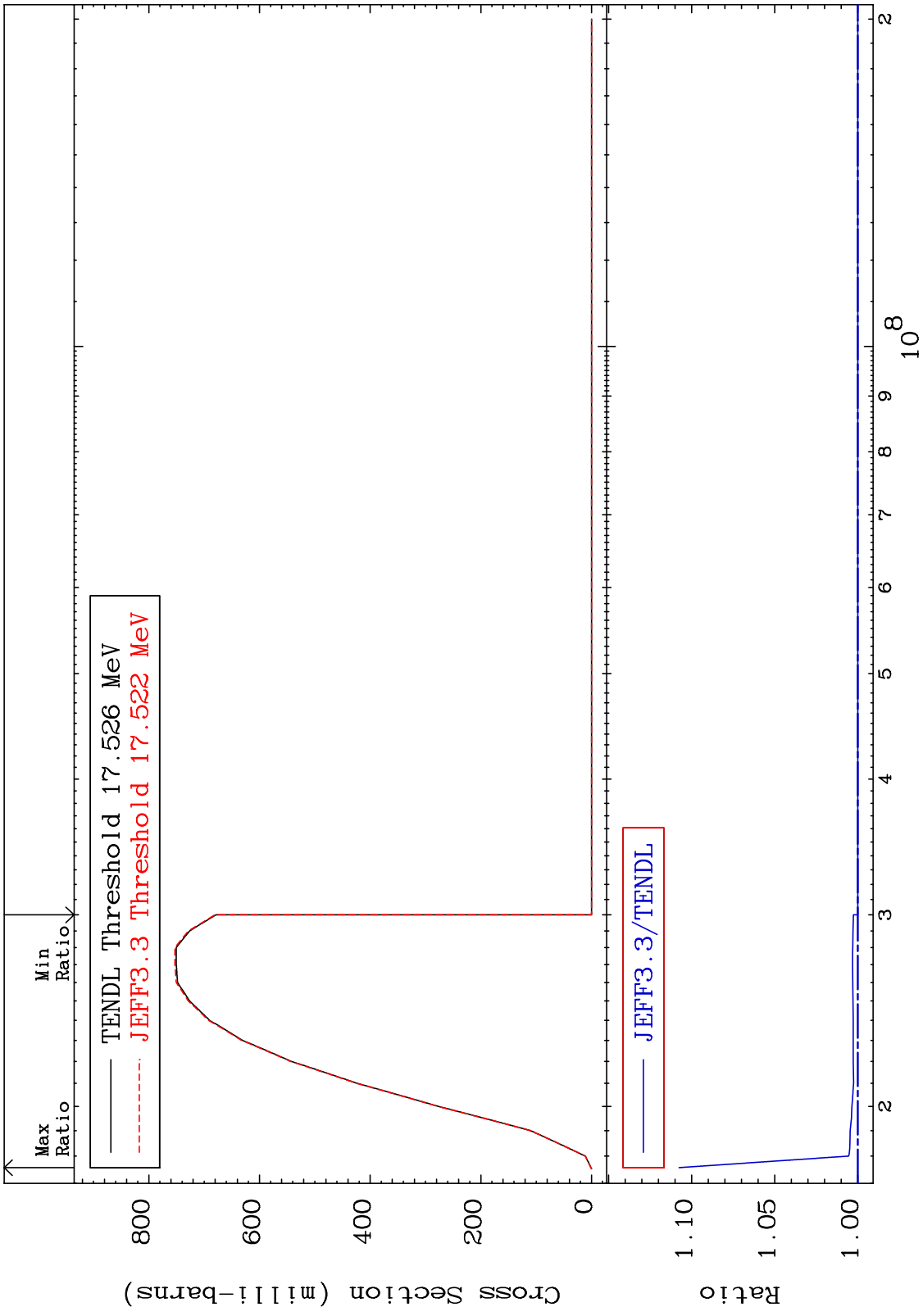


MAT 4319 (n,2n) Cross Section 43-Tc-97 -0.030 To 14.67 %

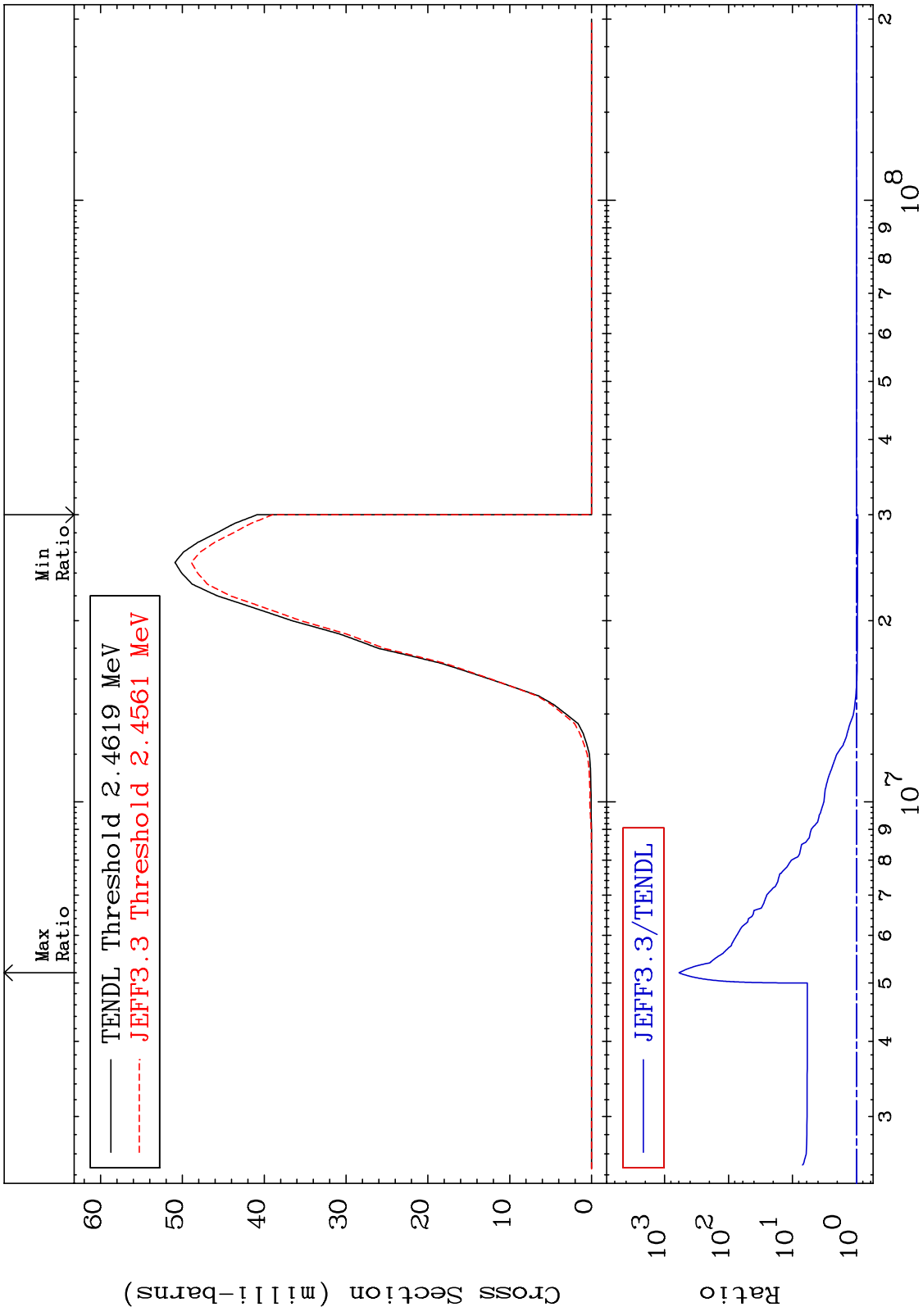


43-Tc-97

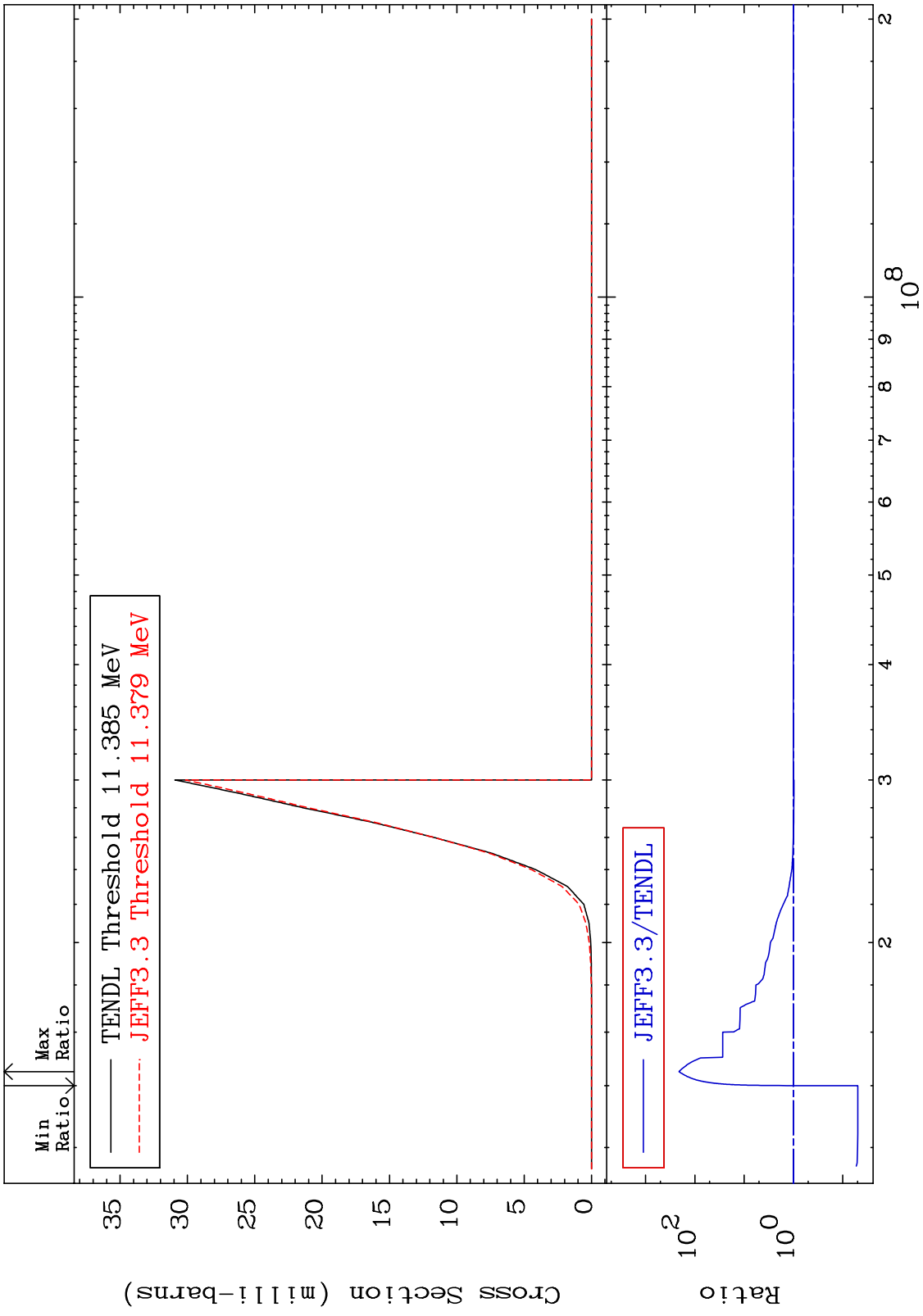
MAT 4319  $(n, 3n)$  Cross Section  $^{43}\text{Tc-97}$   $T_0$  10.76 %



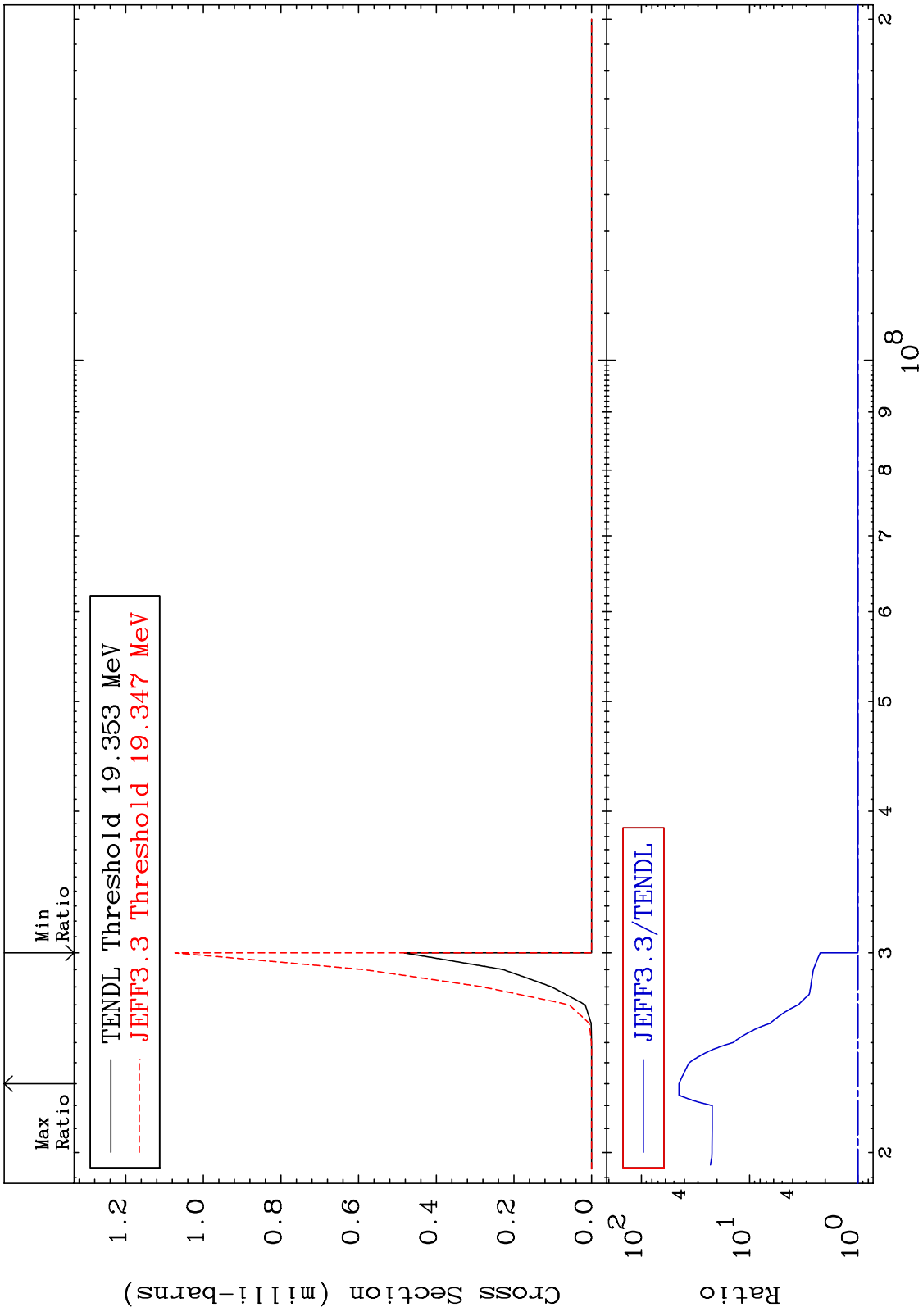
MAT 4319  $(n, n') \alpha$  43-Tc-97  
 Cross Section -4.668 To 9999. %



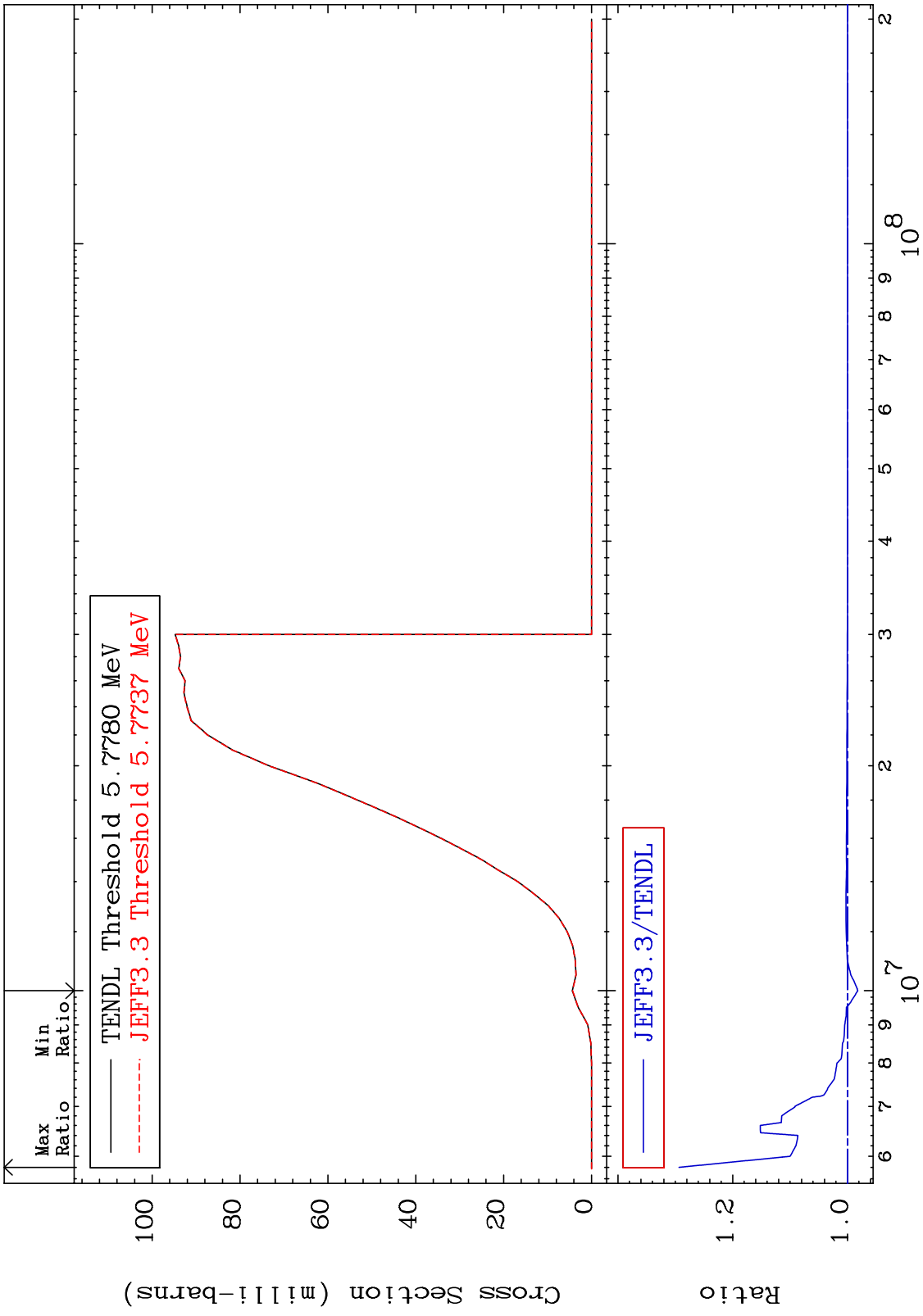




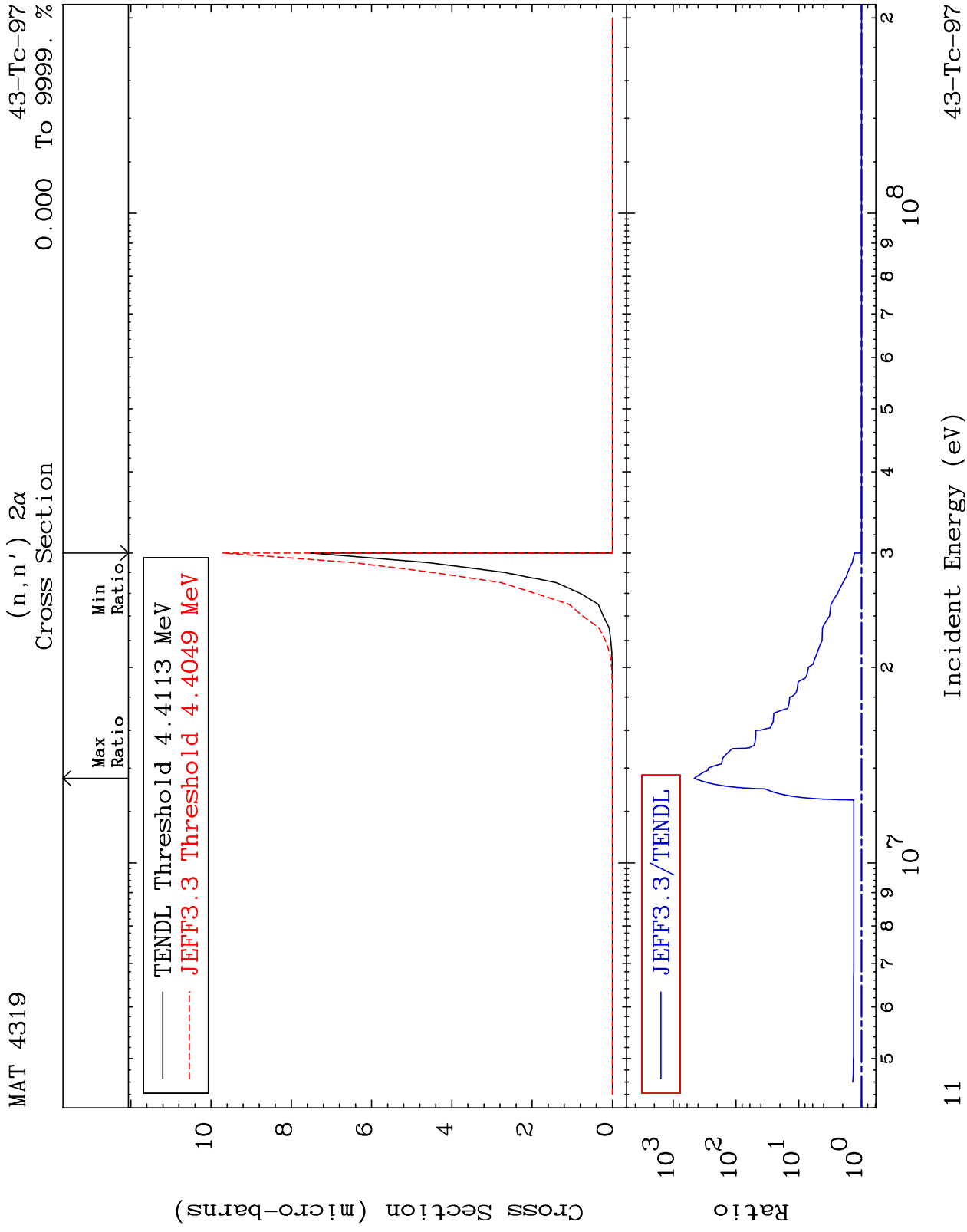
MAT 4319 (n,3n)  $\alpha$  43-Tc-97  
 Cross Section 0.000 To 4382. %



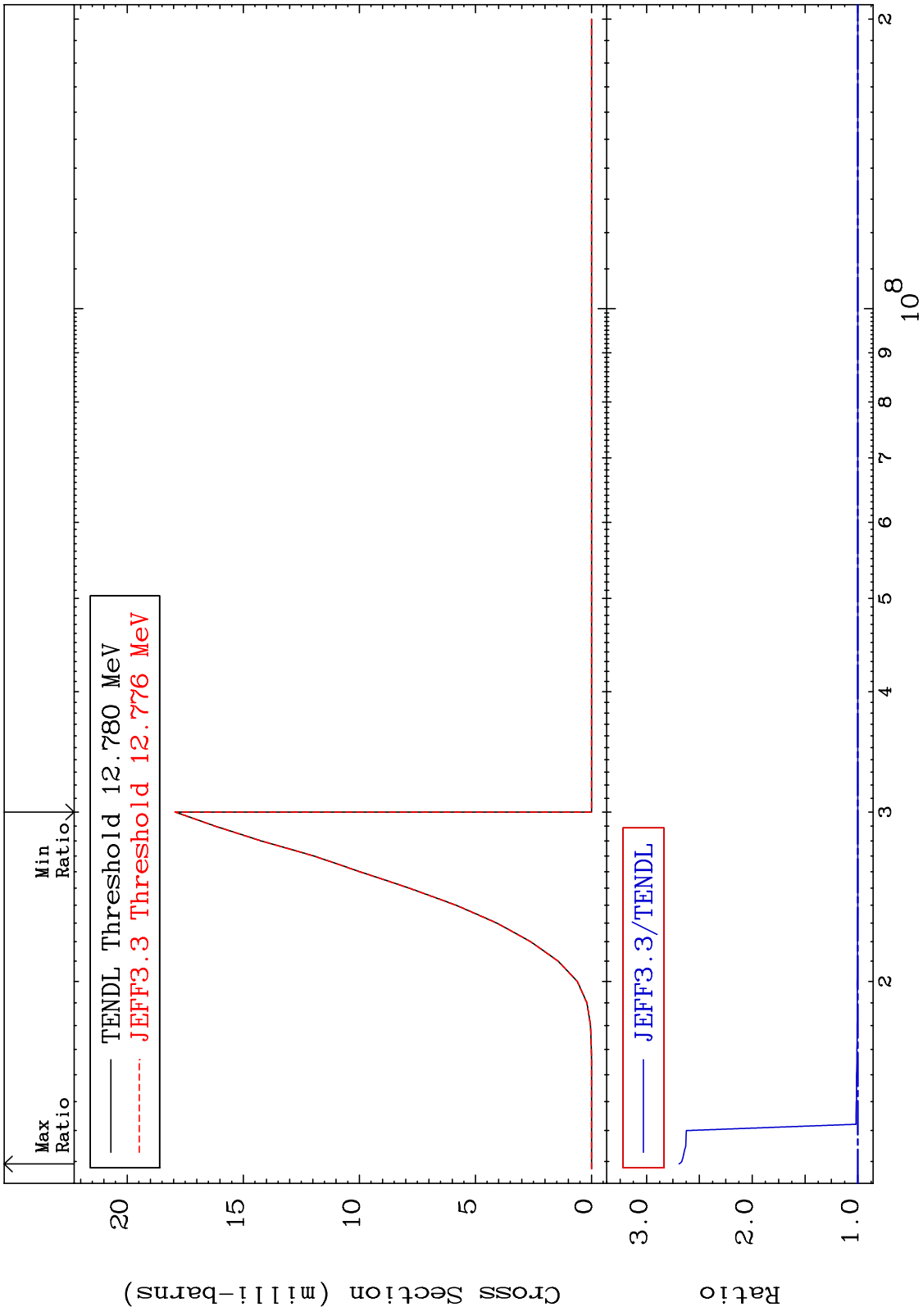
MAT 4319 (n,n') p 43-Tc-97  
Cross Section -1.801 To 29.36 %



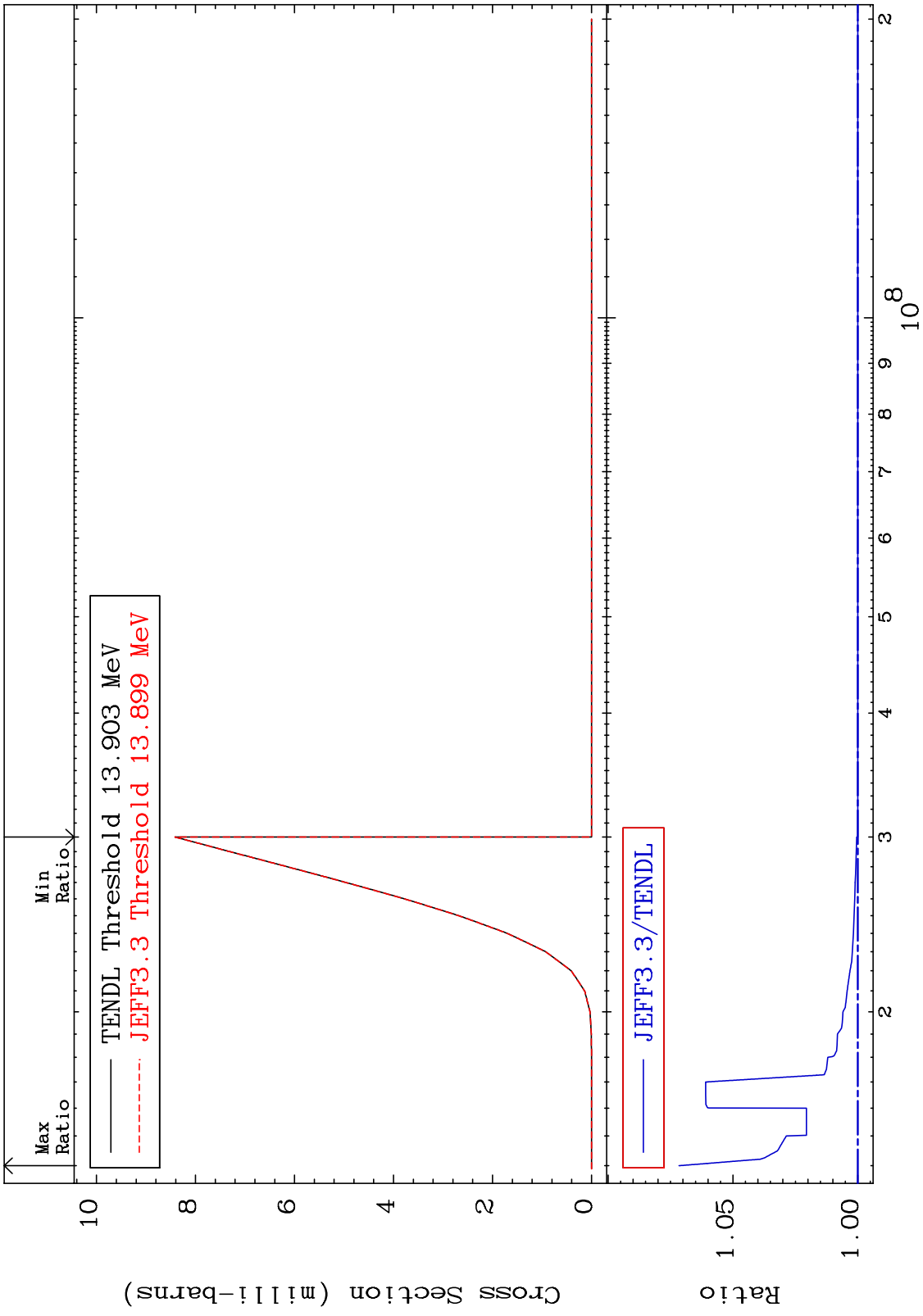
43-Tc-97



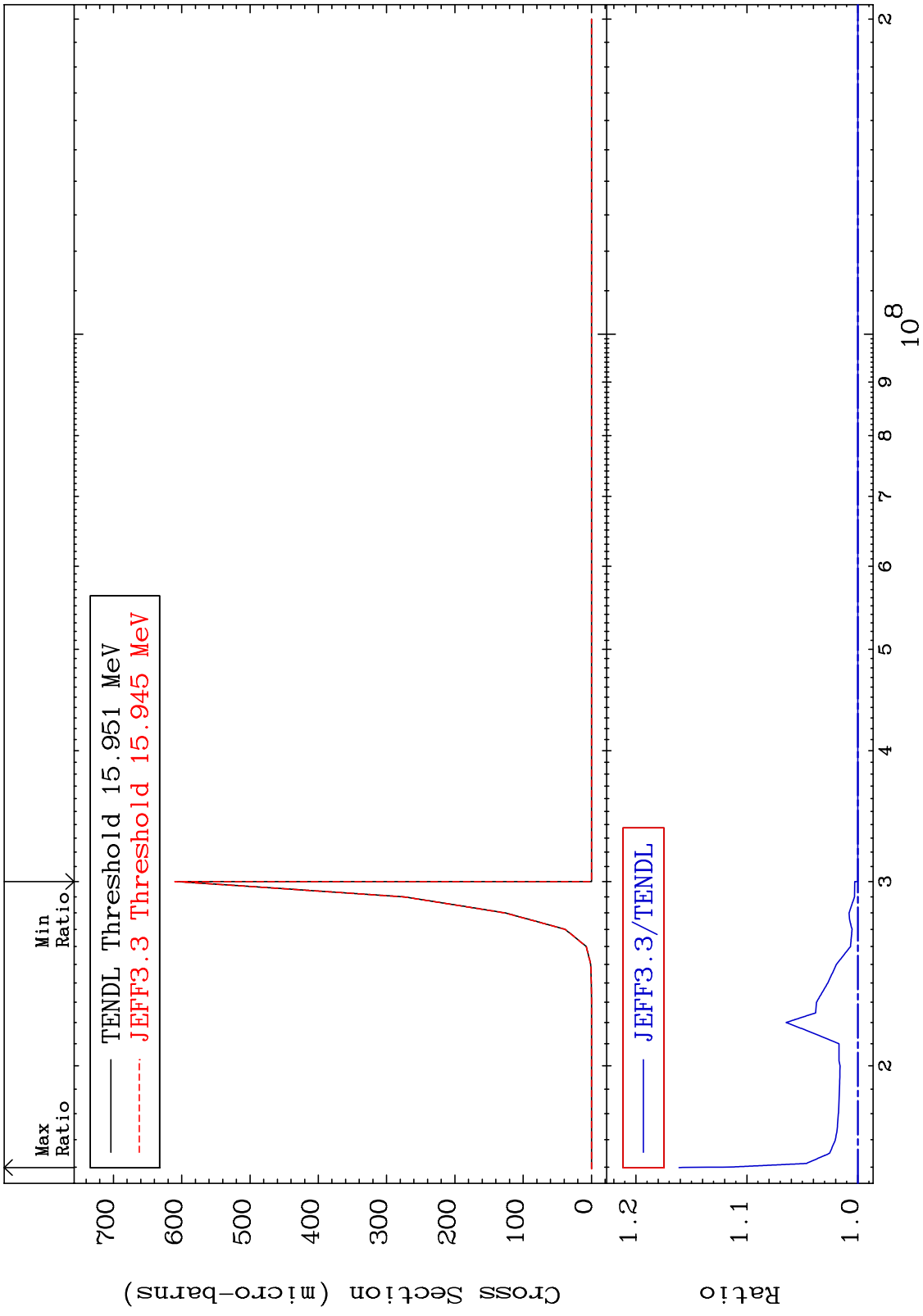
MAT 4319 (n, n') d 43-Tc-97  
 Cross Section 0.000 To 169.2 %

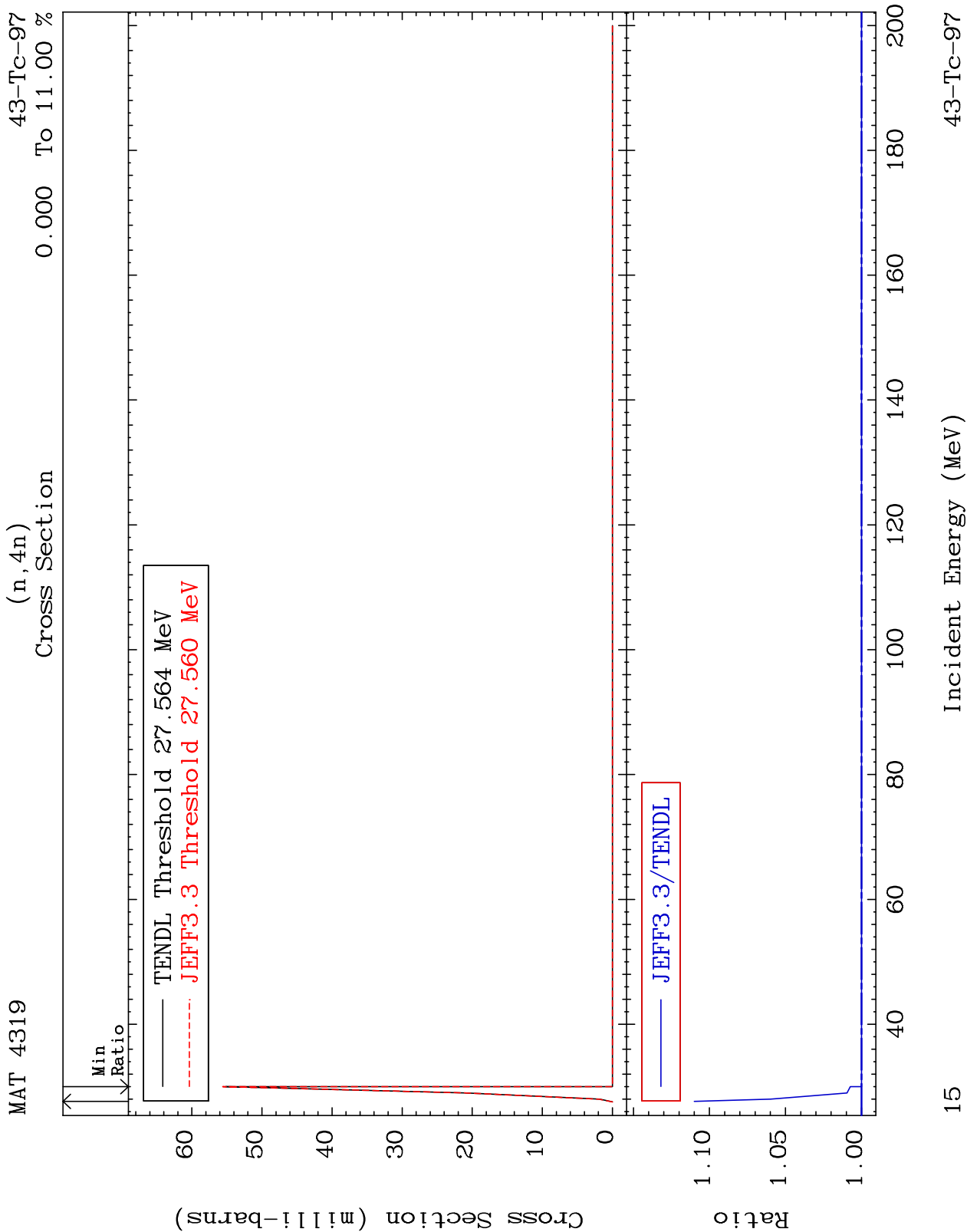


MAT 4319 (n,n') t 43-Tc-97  
 Cross Section 0.000 To 7.159 %



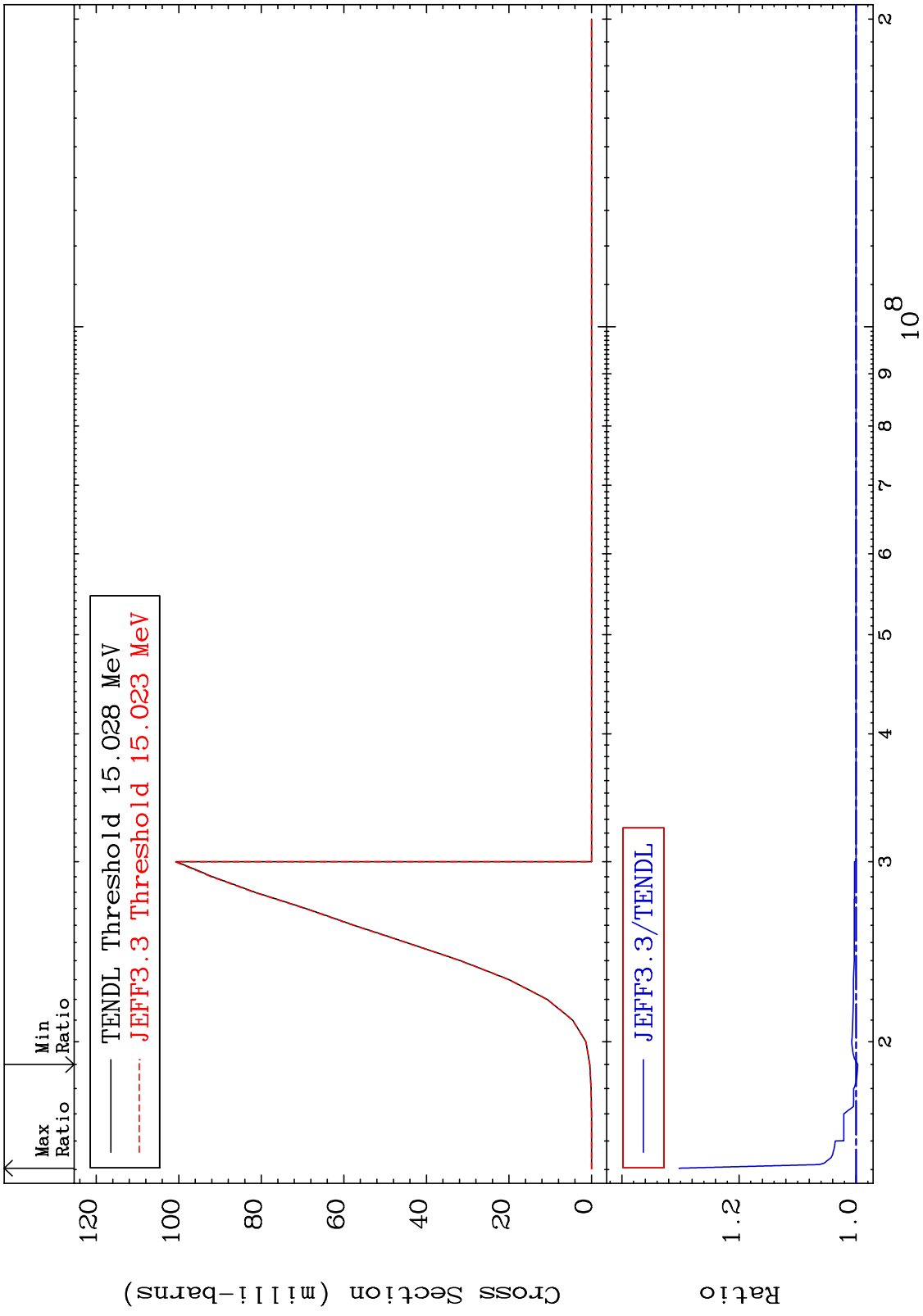
MAT 4319 (n, n') He-3 43-Tc-97  
Cross Section 0.000 To 16.12 %



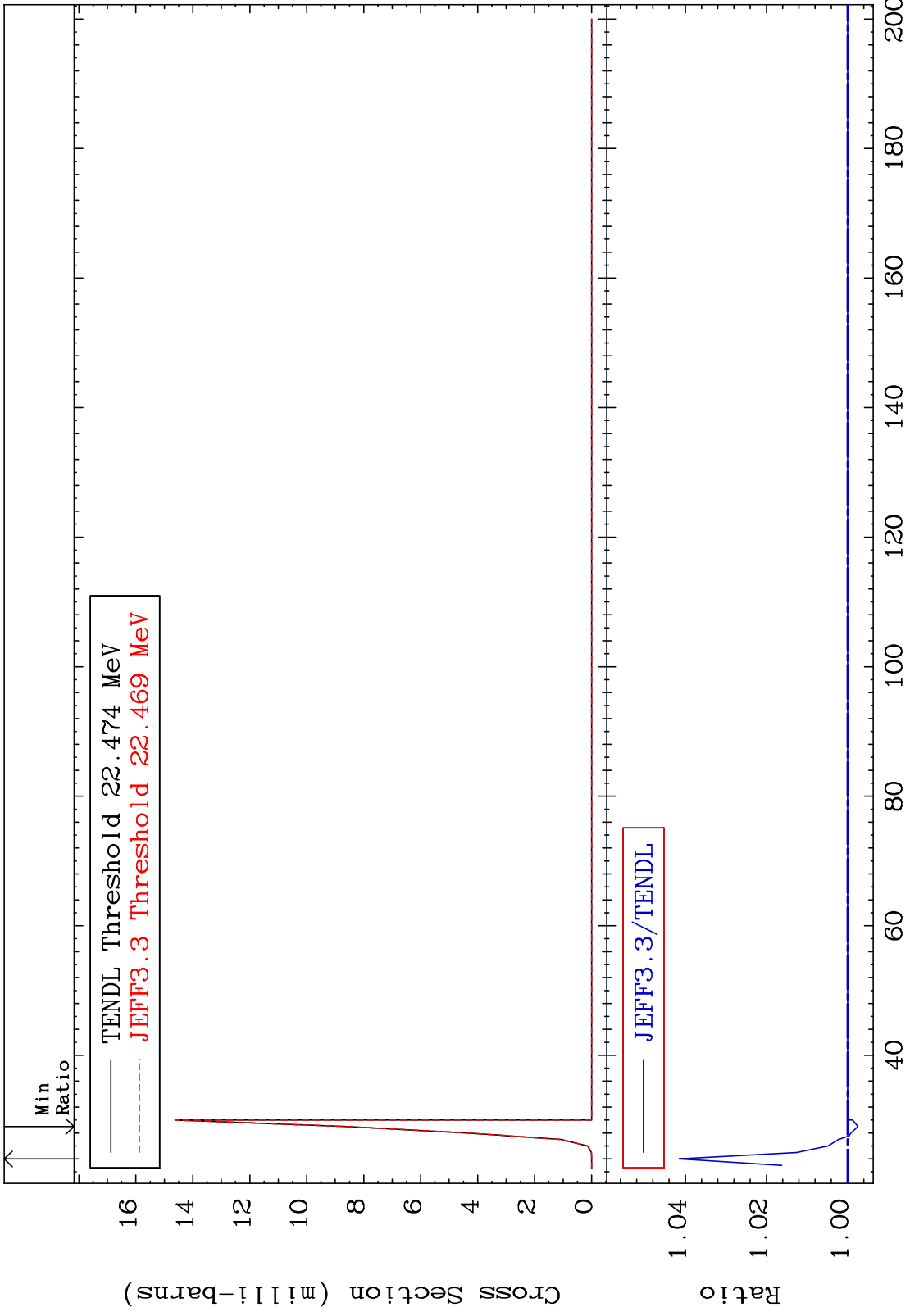




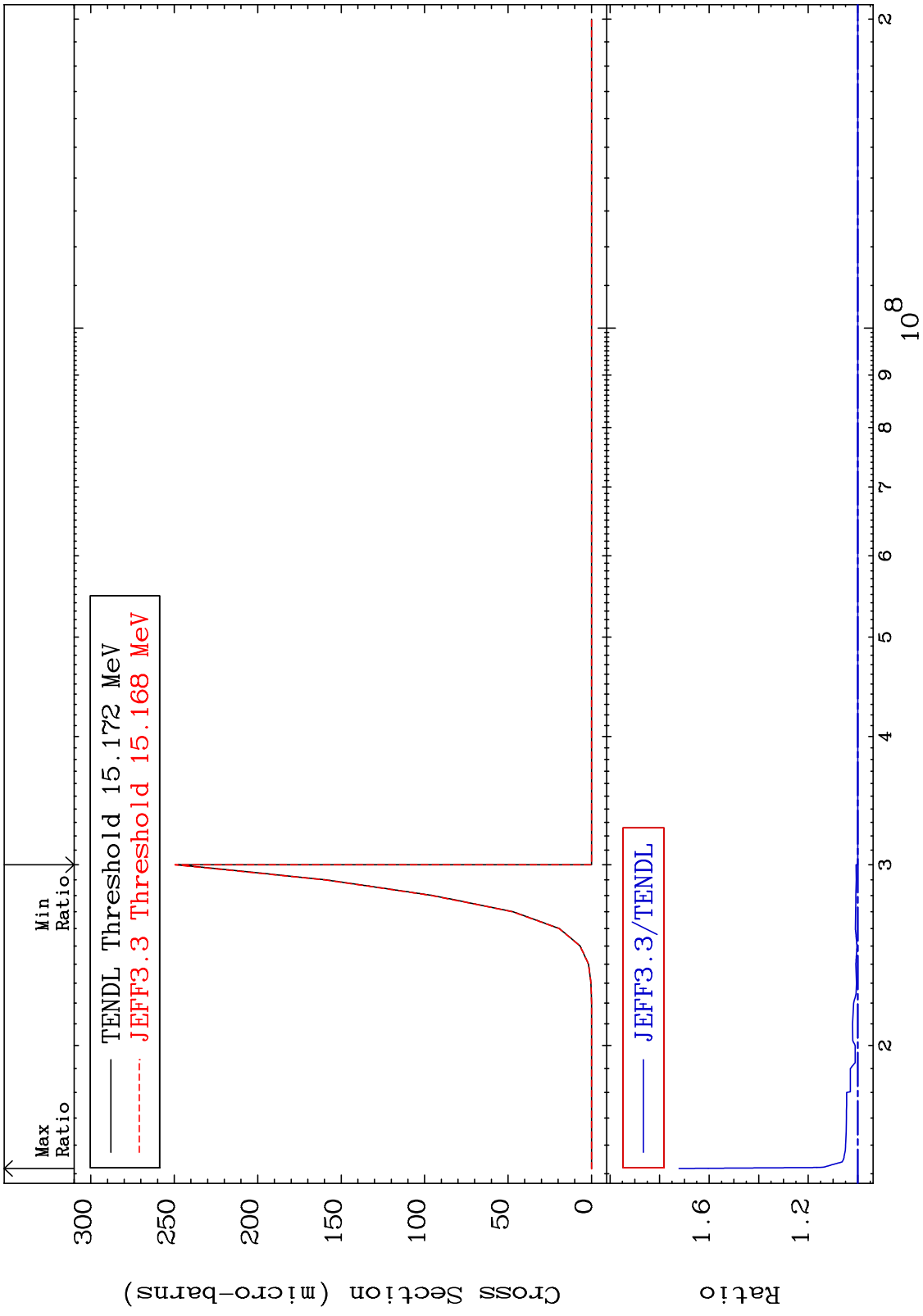
MAT 4319 (n,2n) p 43-Tc-97  
 Cross Section -0.289 To 30.24 %



MAT 4319 (n,3n) p 43-Tc-97  
Cross Section -0.256 To 4.152 %



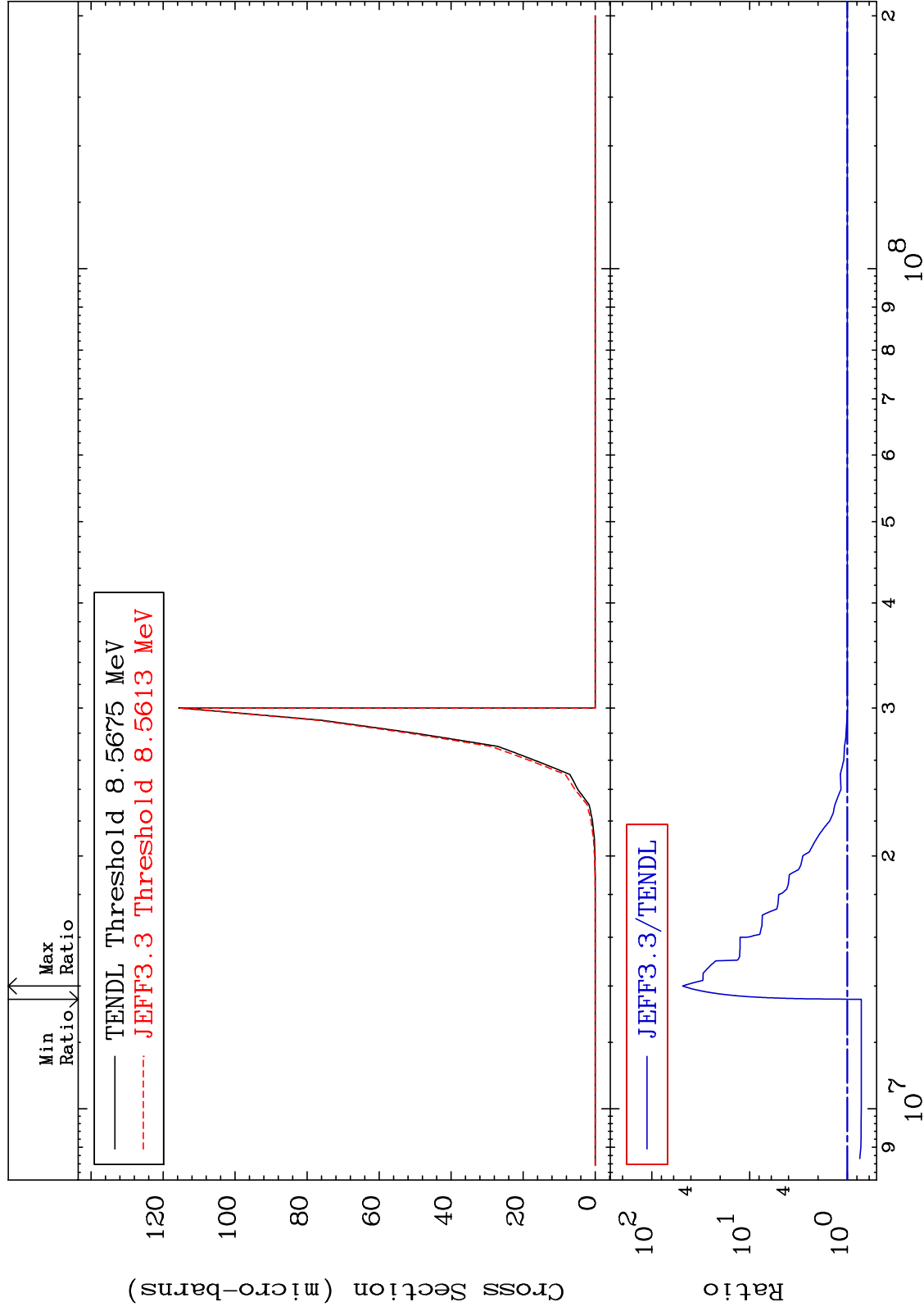
MAT 4319 (n,2n) p 43-Tc-97  
Cross Section 0.000 To 72.14 %



MAT 4319

(n,n') p  $\alpha$   
Cross Section

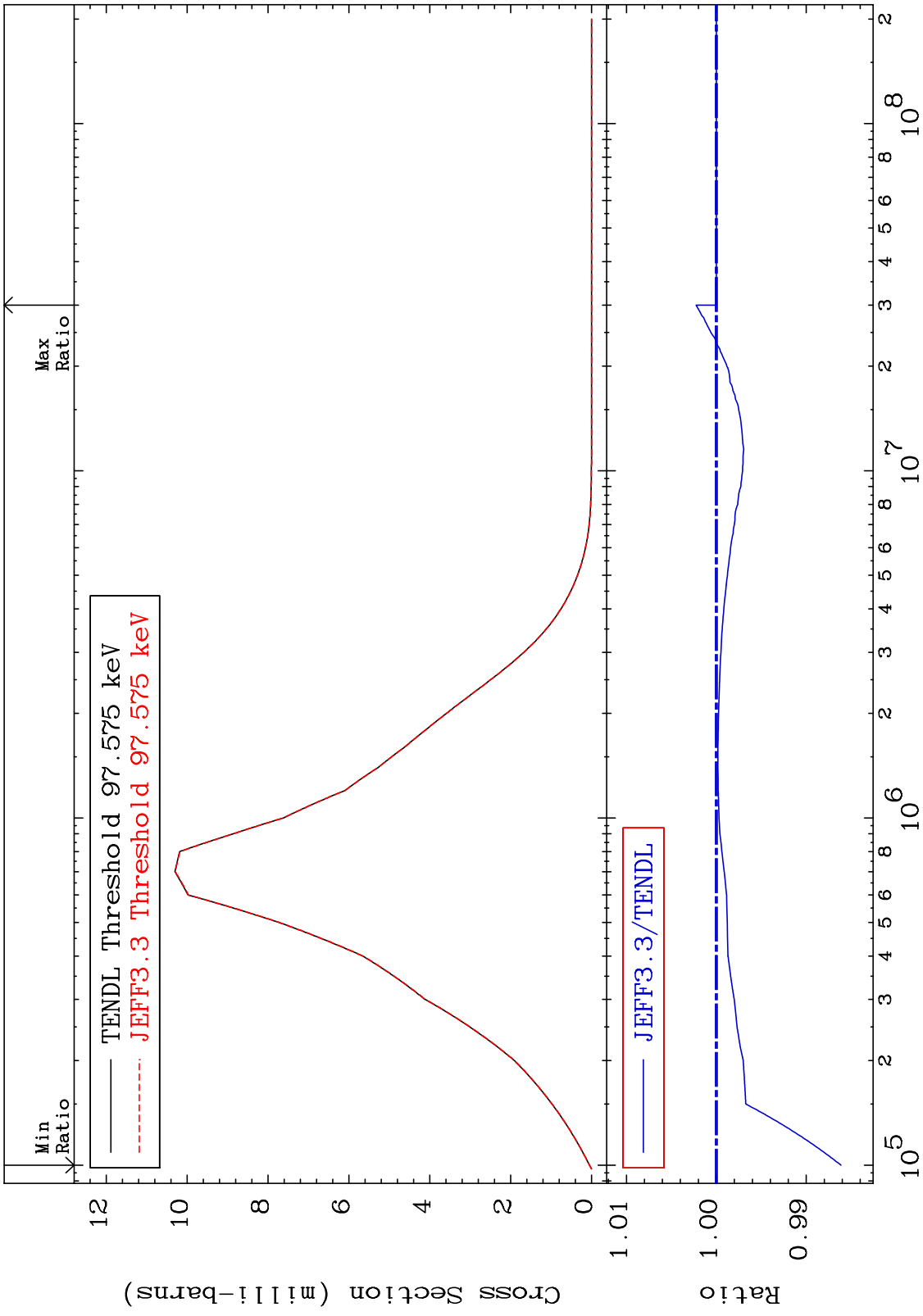
43-Tc-97  
-27.99 To 4744. %



19

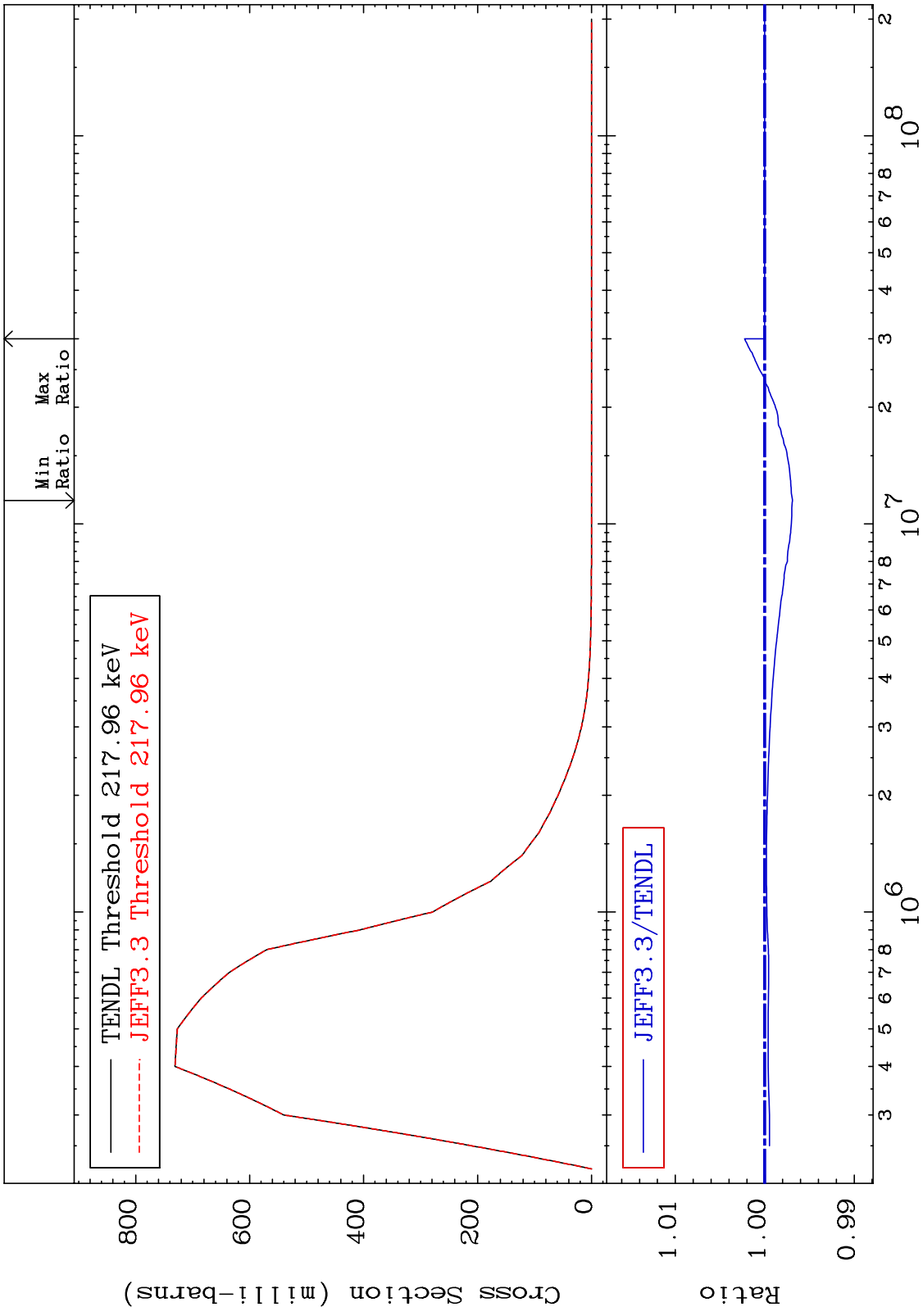
43-Tc-97

MAT 4319 MT= 51 (n,n') Level Cross Section -1.385 To 0.227 % 43-Tc-97

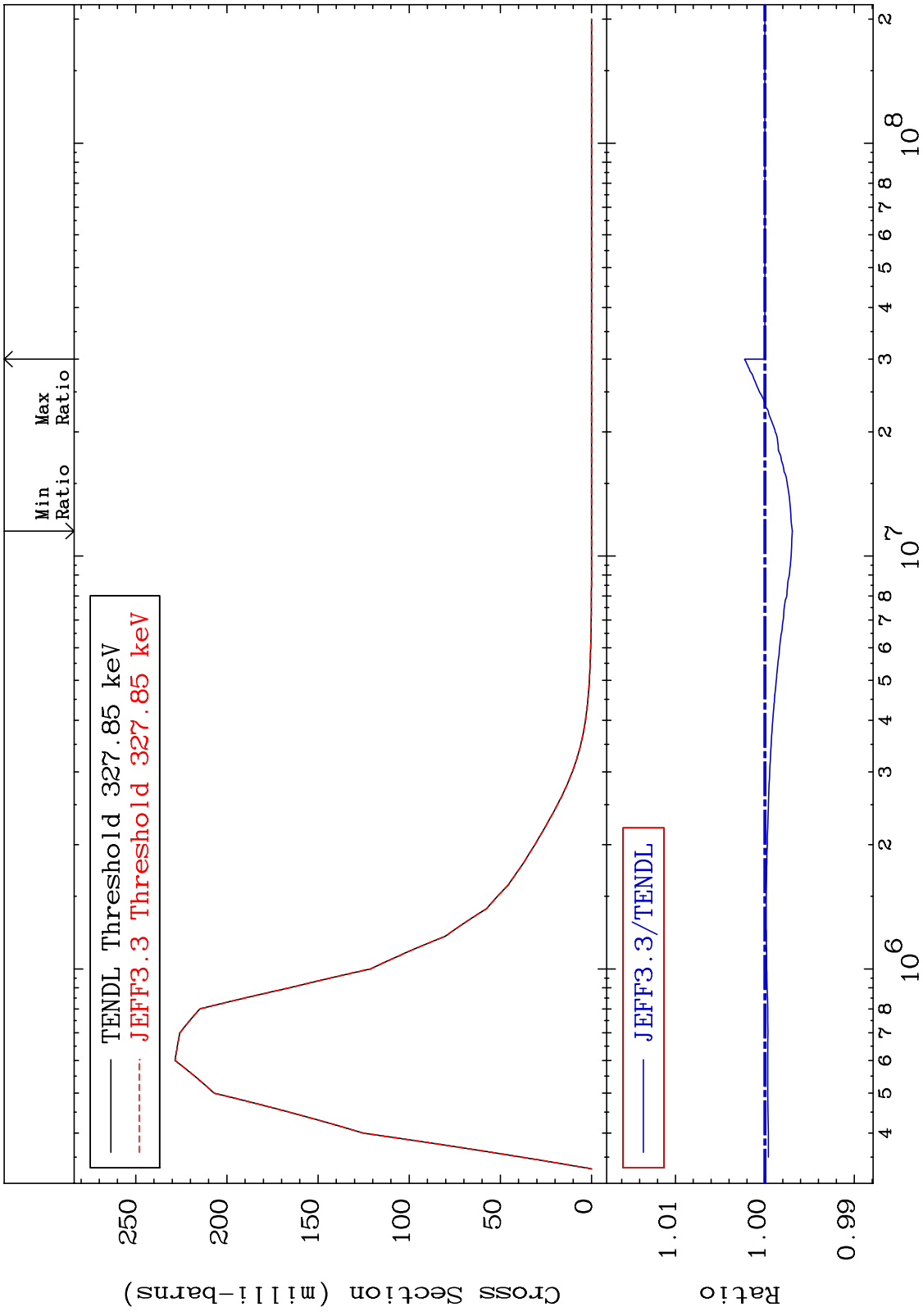


20 Incident Energy (eV) 43-Tc-97

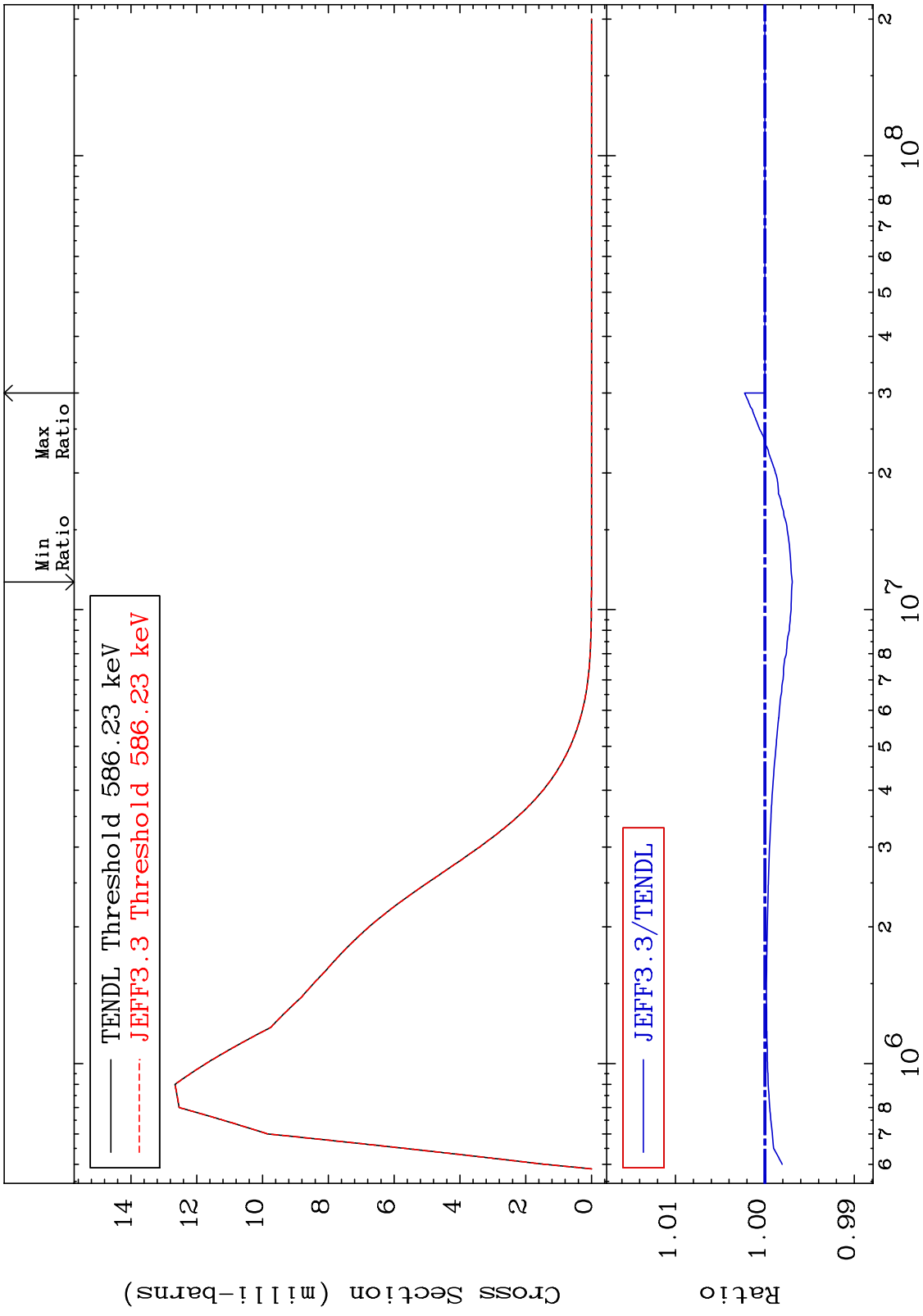
MAT 4319 MT= 52 (n,n') Level Cross Section 43-Tc-97  
 -0.309 To 0.227 %



MAT 4319 MT= 53 (n,n') Level Cross Section 43-Tc-97  
 -0.308 To 0.227 %



MAT 4319 MT= 54 (n,n') Level Cross Section 43-Tc-97  
 -0.306 To 0.227 %

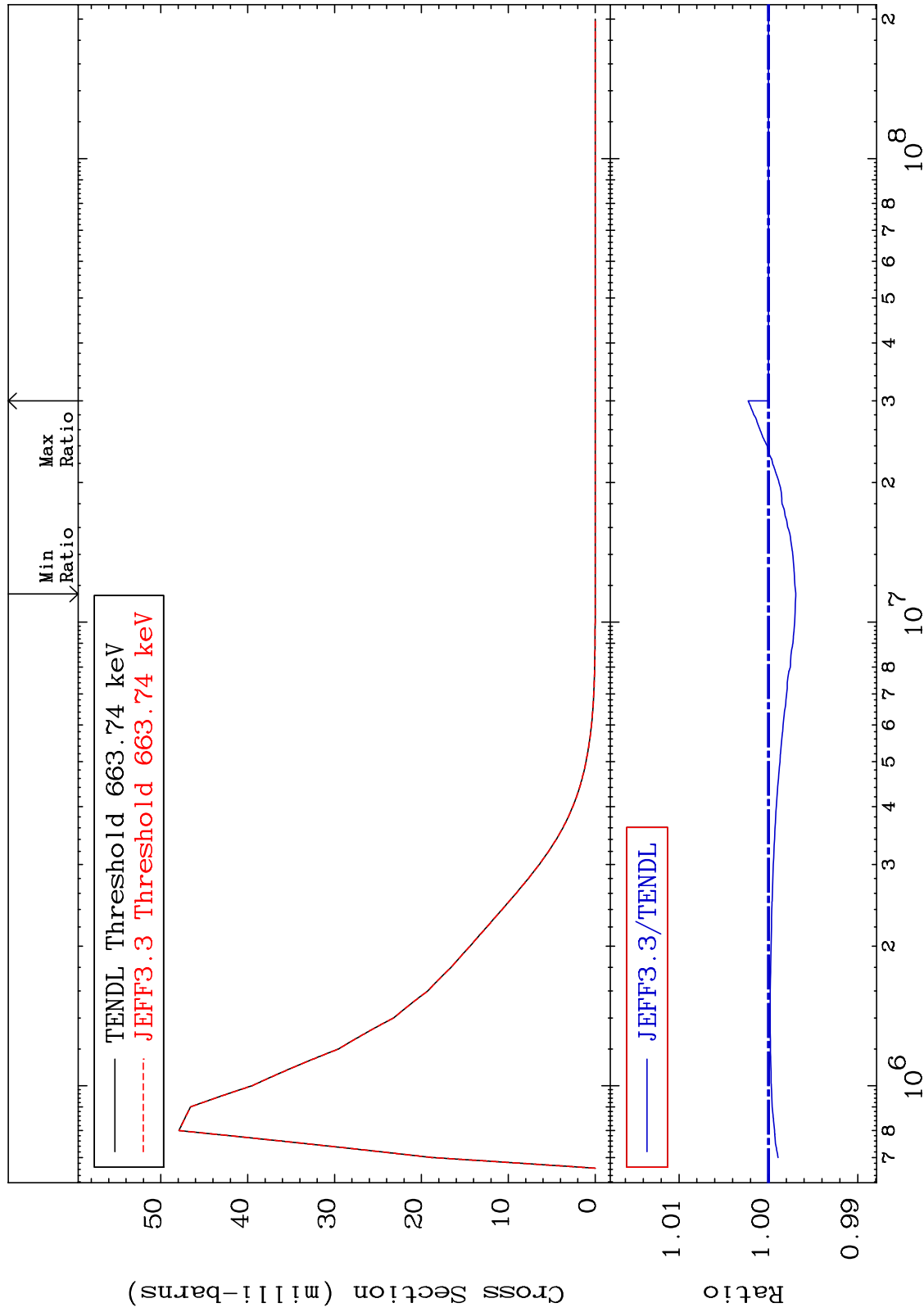




MAT 4319

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

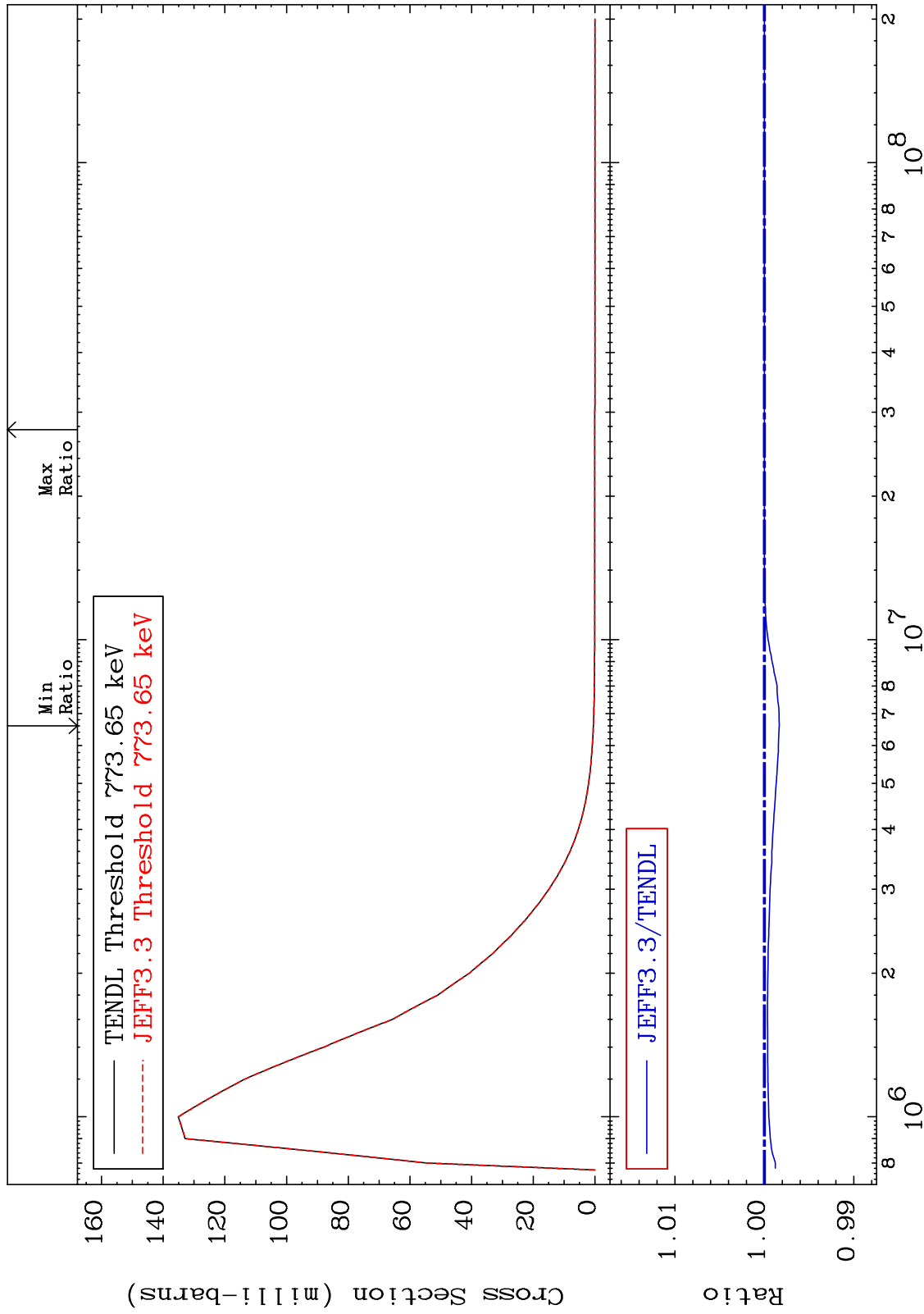
43-Tc-97  
-0.307 To 0.227 %



MAT 4319

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

43-Tc-97  
-0.167 To 0.000 %

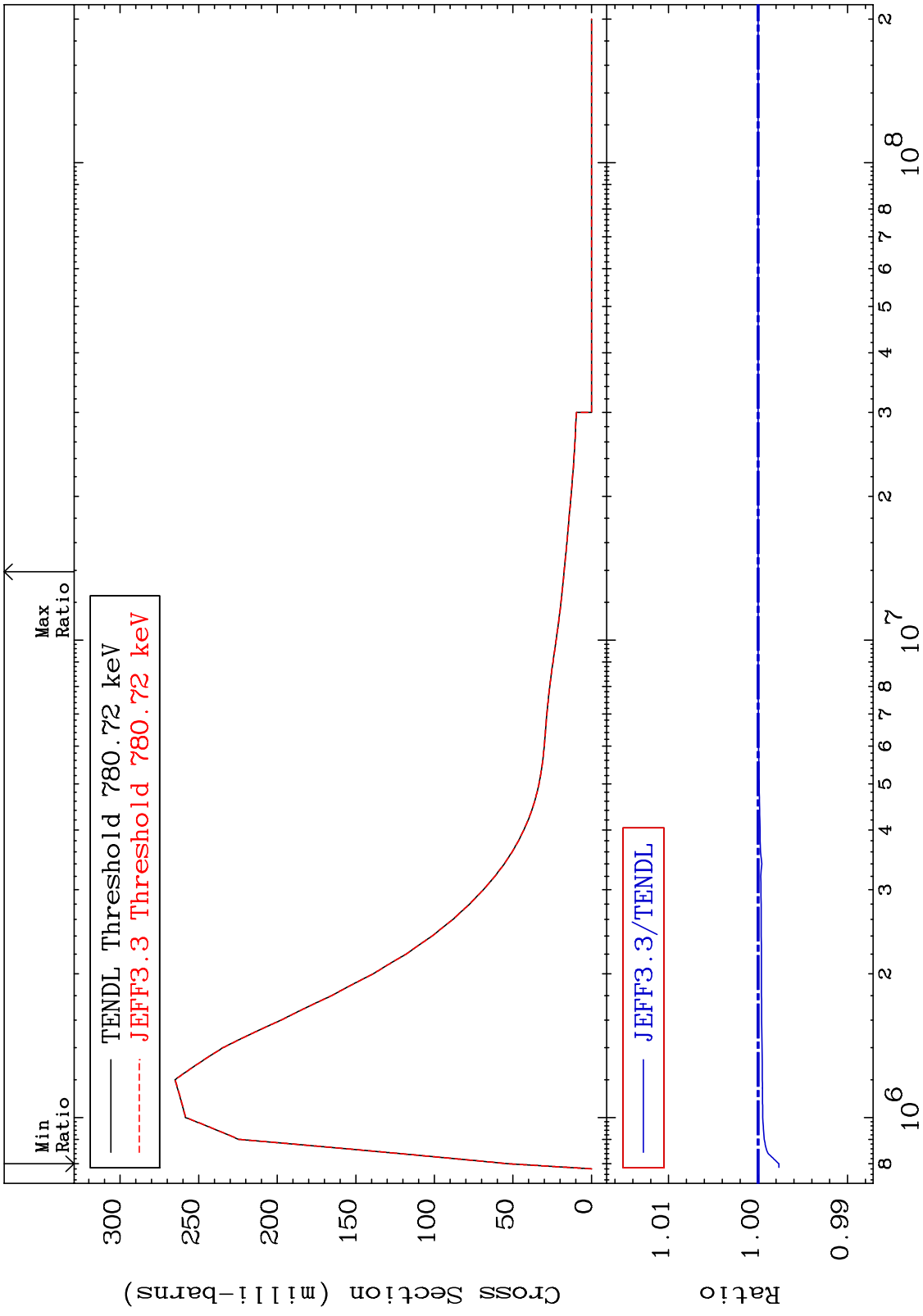


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Incident Energy (eV)

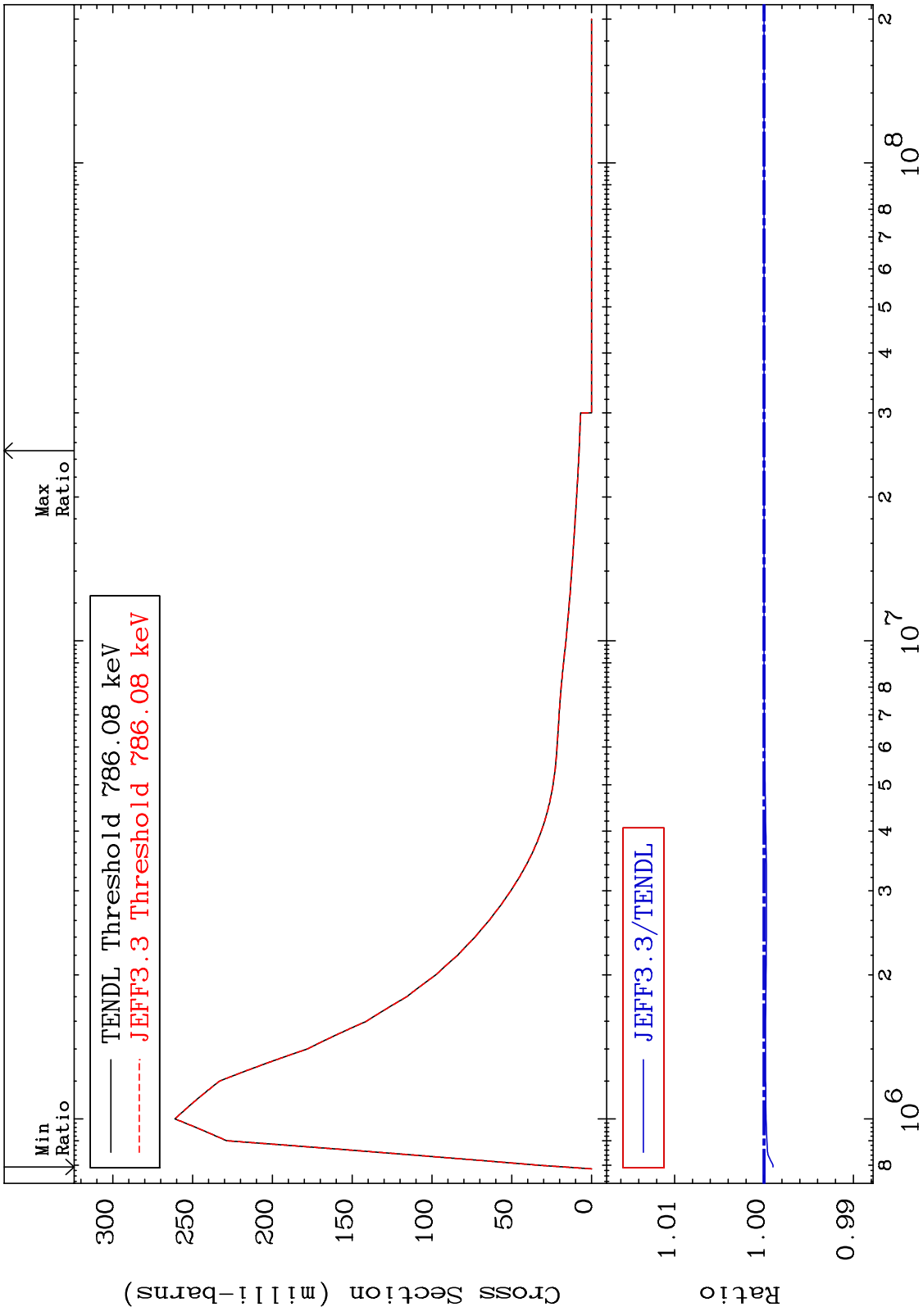
43-Tc-97

MAT 4319 MT= 57 (n,n') Level Cross Section 43-Tc-97  
 -0.231 To 0.000 %

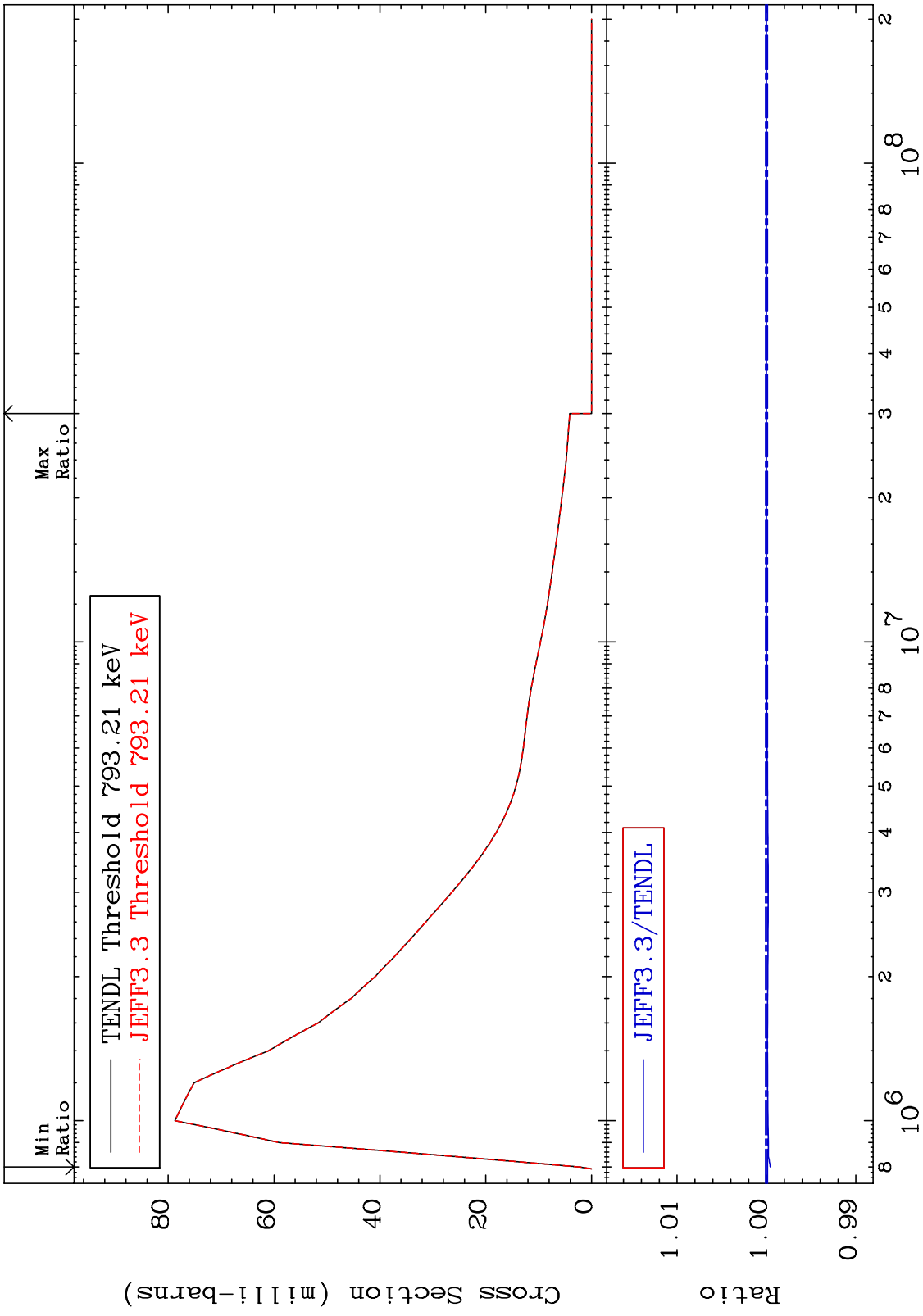


26 43-Tc-97

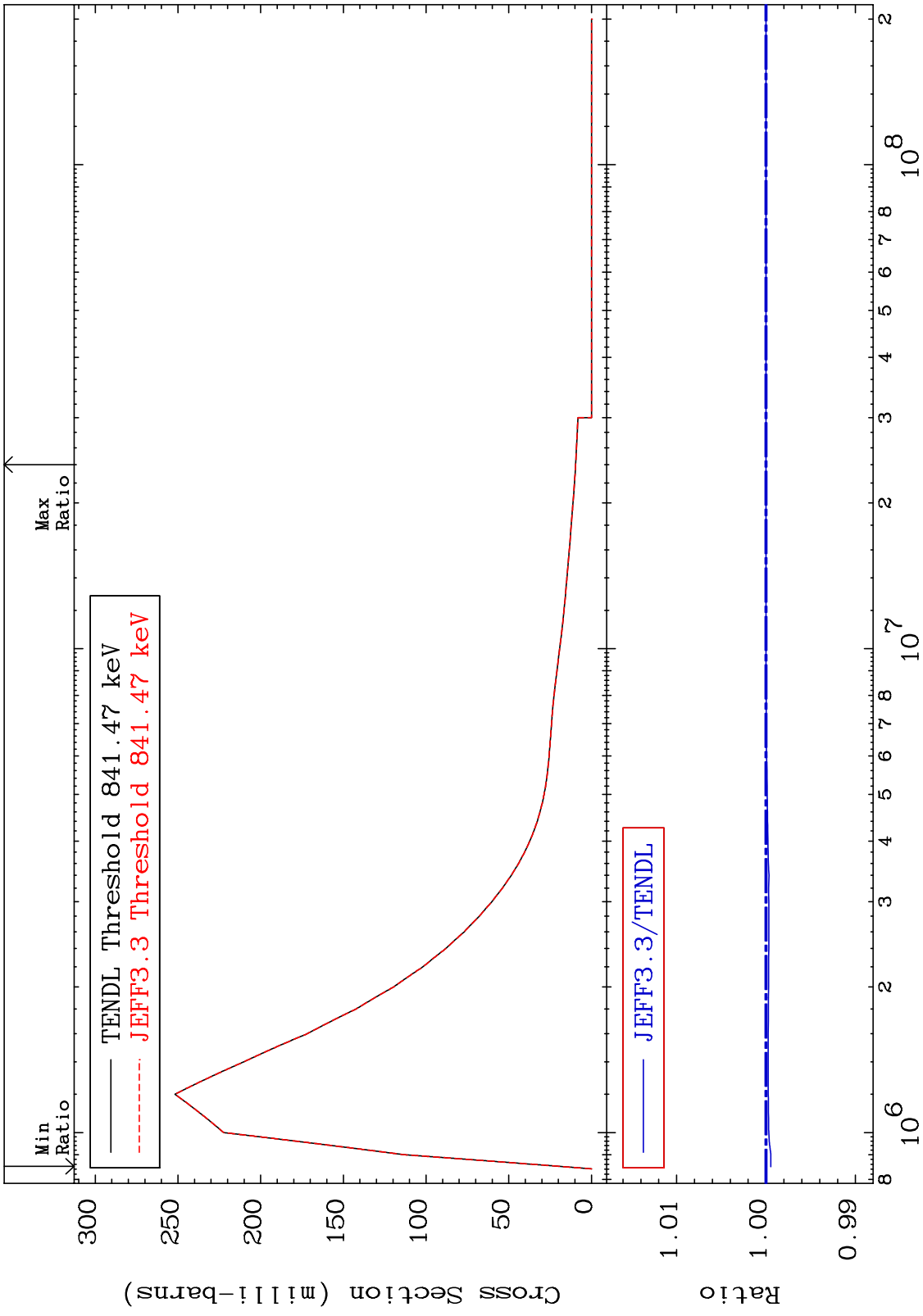
MAT 4319 MT= 58 (n,n') Level Cross Section 43-Tc-97  
-0.100 To 0.000 %



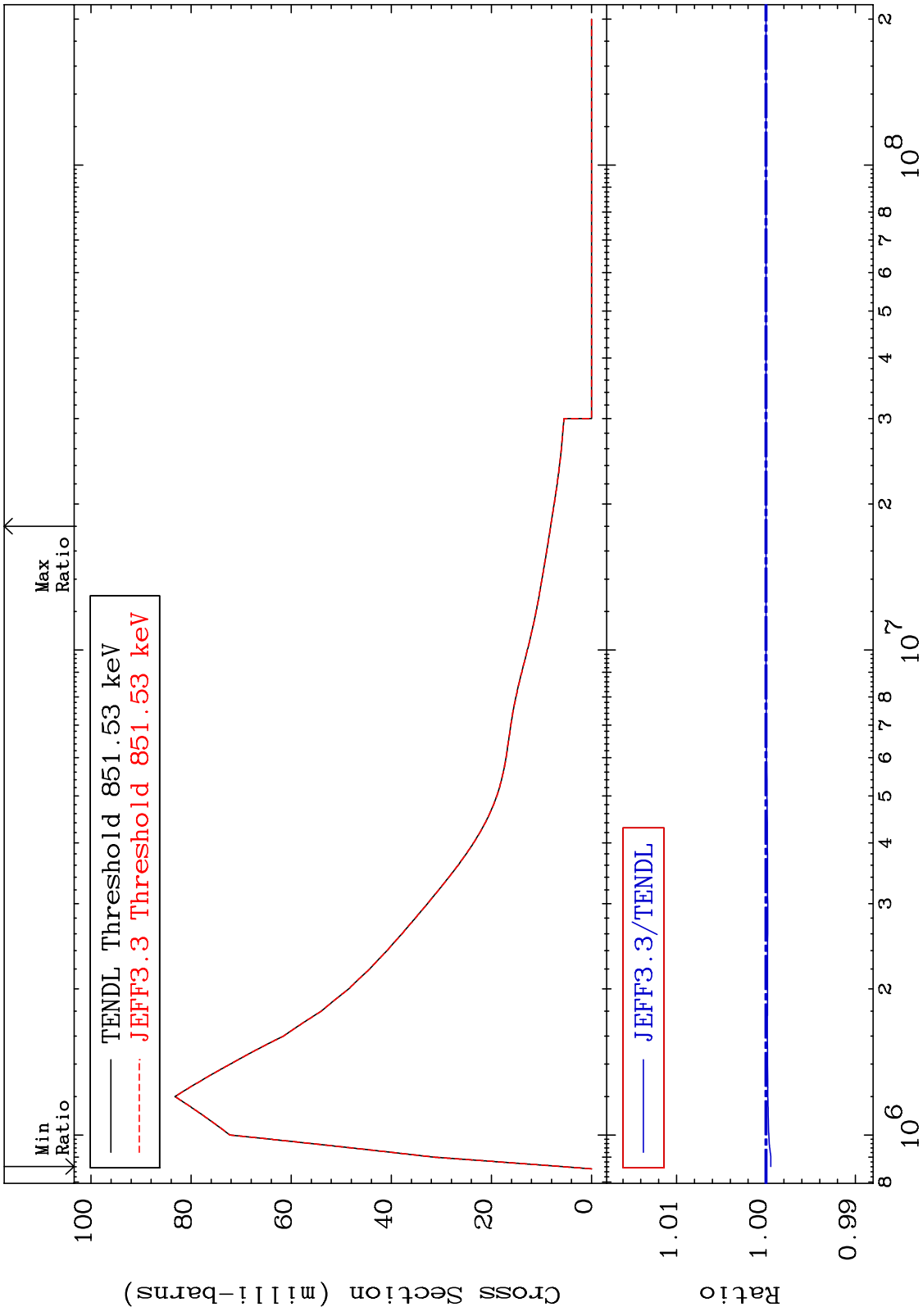
MAT 4319 MT= 59 (n,n') Level Cross Section 43-Tc-97  
 -0.043 To 0.000 %



MAT 4319 MT= 60 (n,n') Level Cross Section 43-Tc-97  
 -0.054 To 0.000 %

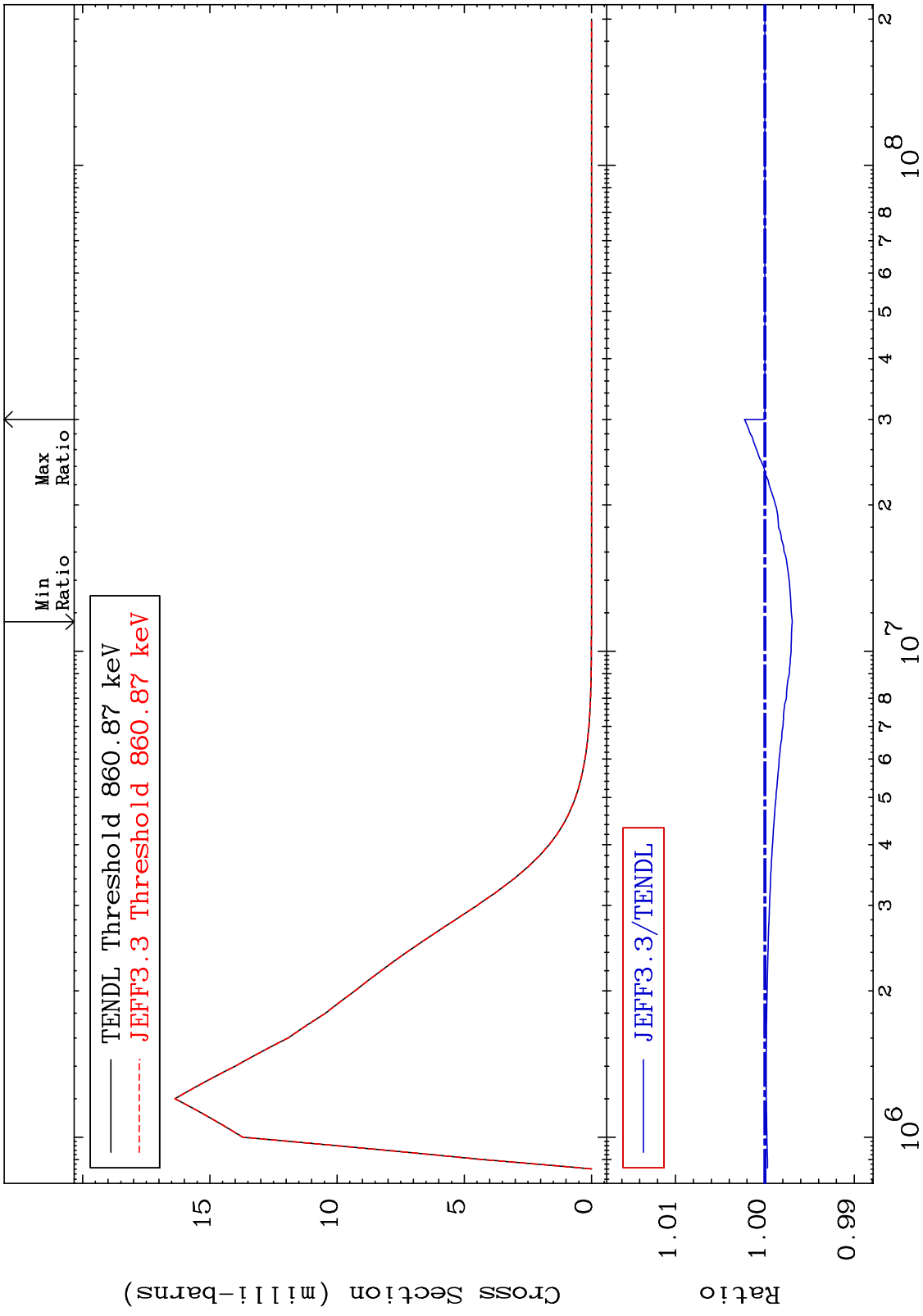


MAT 4319 MT= 61 (n,n') Level Cross Section 43-Tc-97  
-0.054 To 0.000 %



30 Incident Energy (eV) 43-Tc-97

MAT 4319 MT= 62 (n,n') Level Cross Section 43-Tc-97  
 -0.306 To 0.227 %

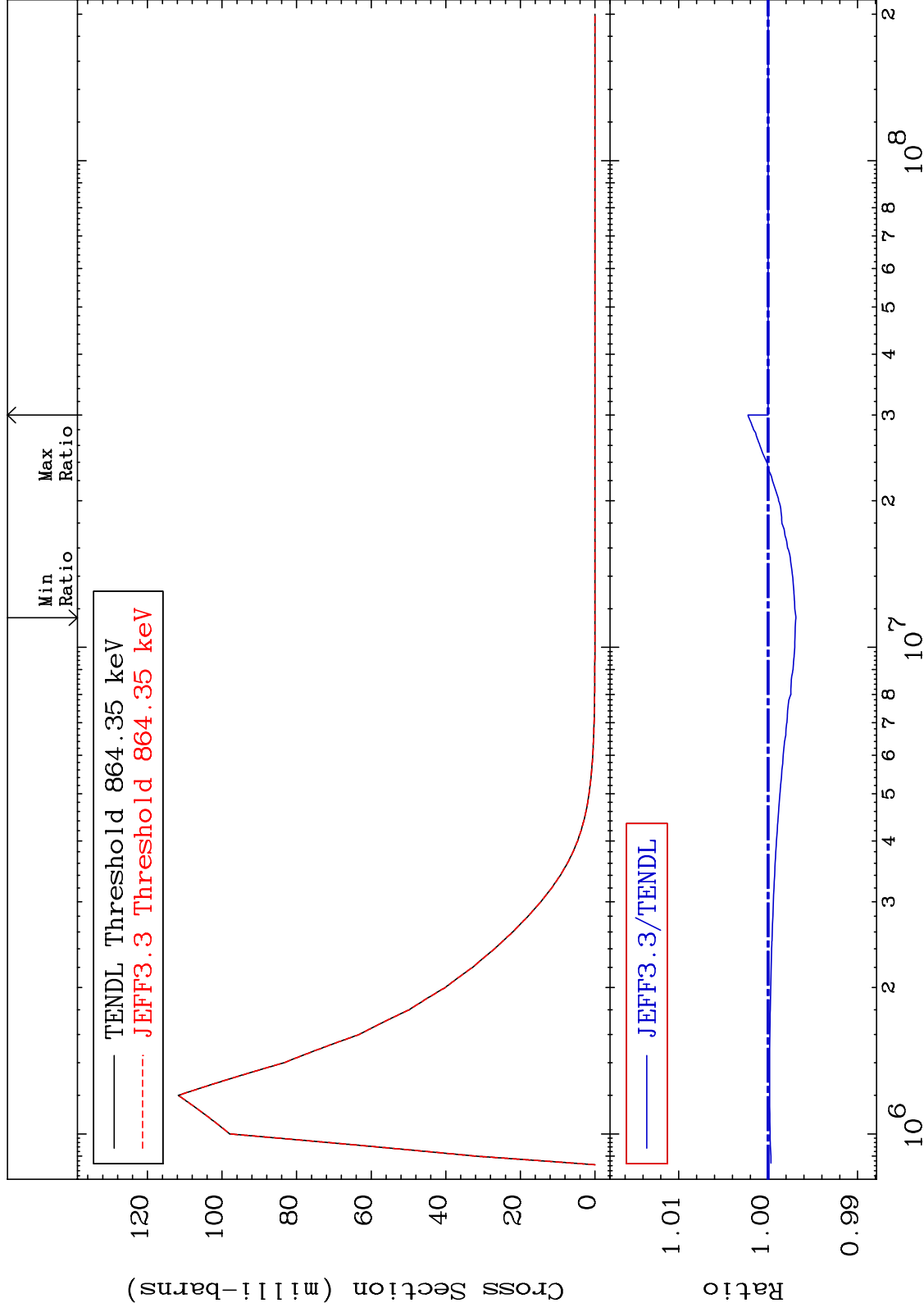




MAT 4319

MT= 63 (n,n') Level  
Cross Section

43-Tc-97  
-0.310 To 0.227 %



32

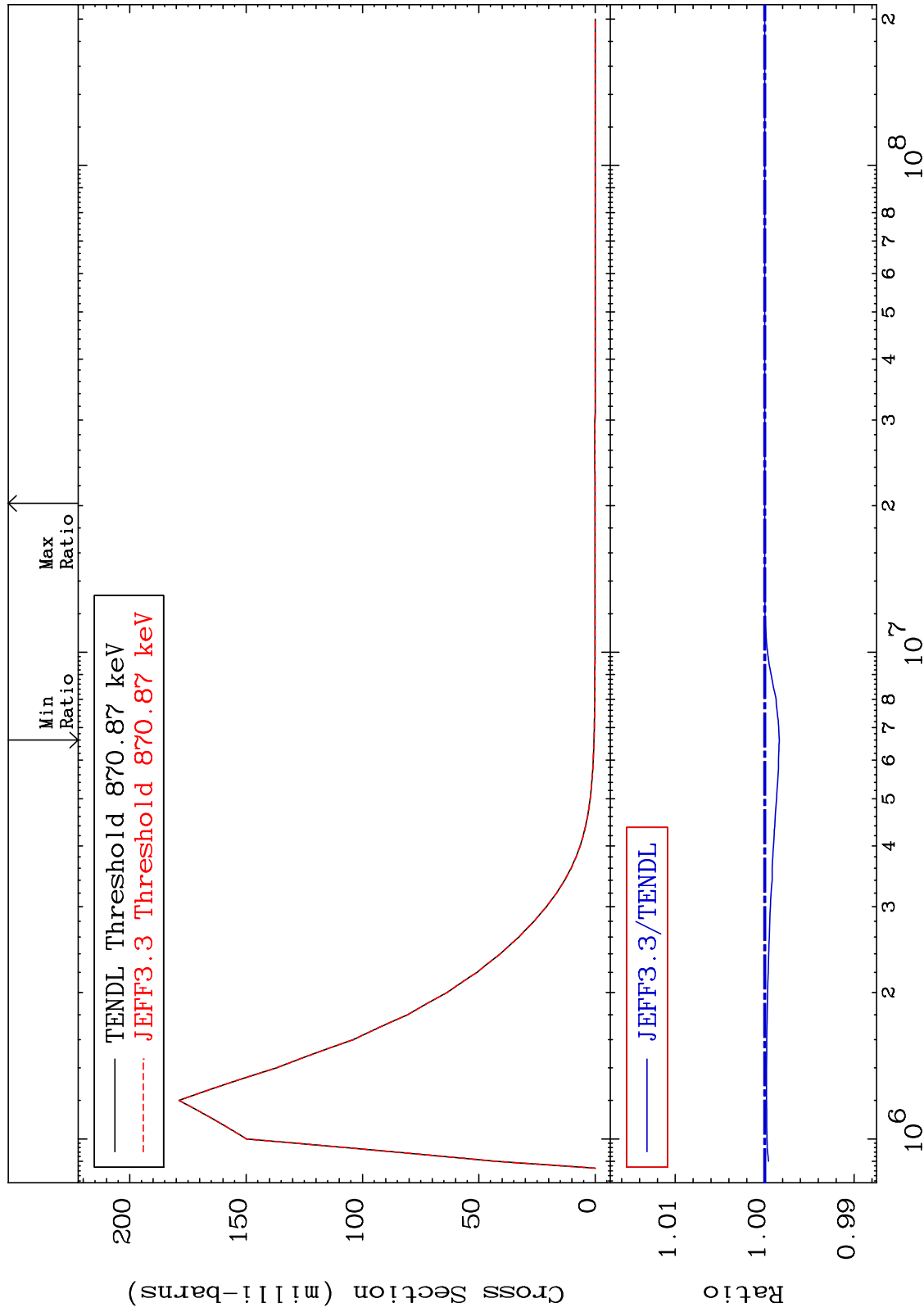
Incident Energy (eV)

43-Tc-97

MAT 4319

MT= 64 (n,n') Level  
Cross Section

43-Tc-97  
-0.164 To 0.000 %

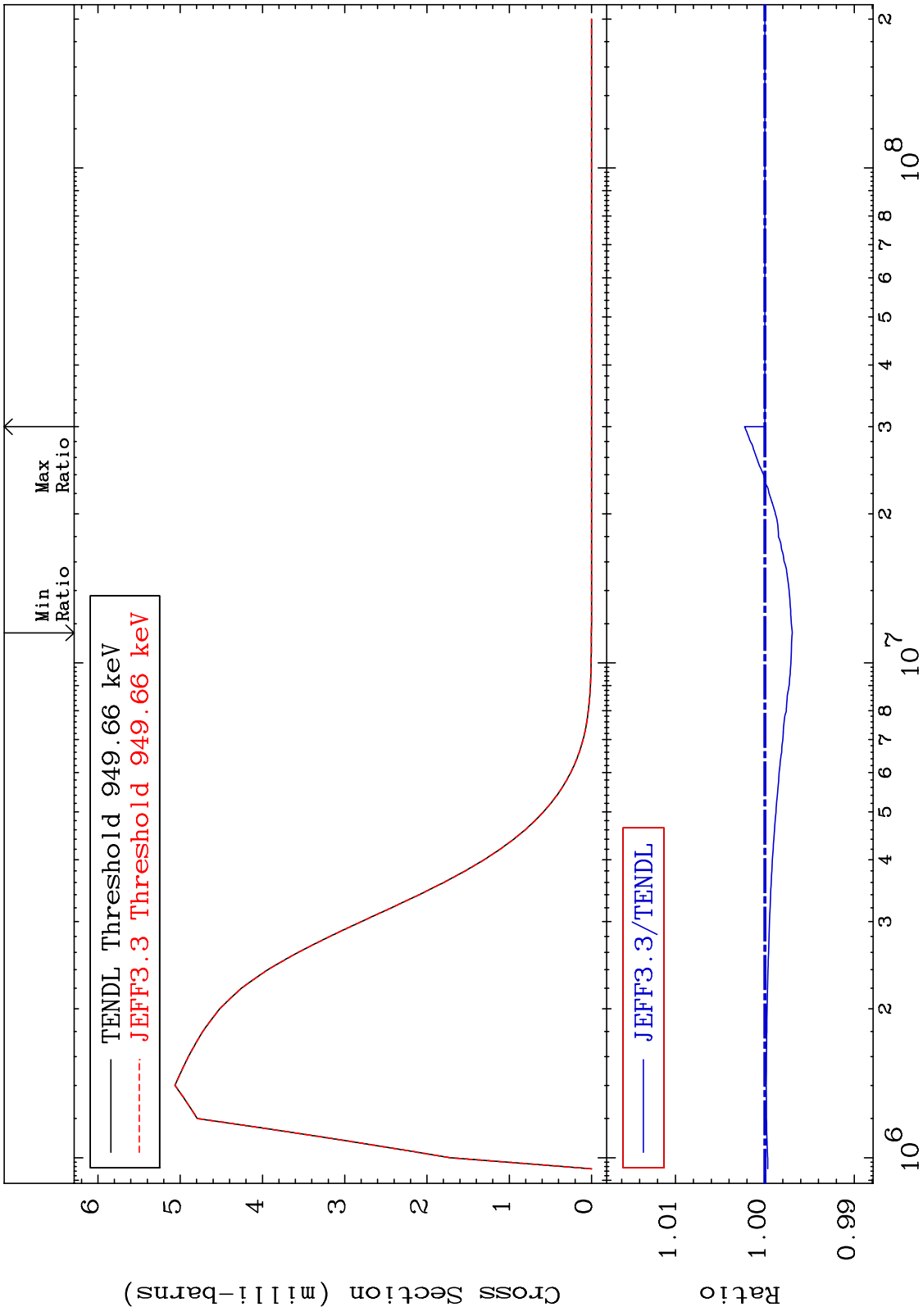


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Incident Energy (eV)

43-Tc-97

MAT 4319 MT= 65 (n,n') Level Cross Section 43-Tc-97  
 -0.306 To 0.226 %

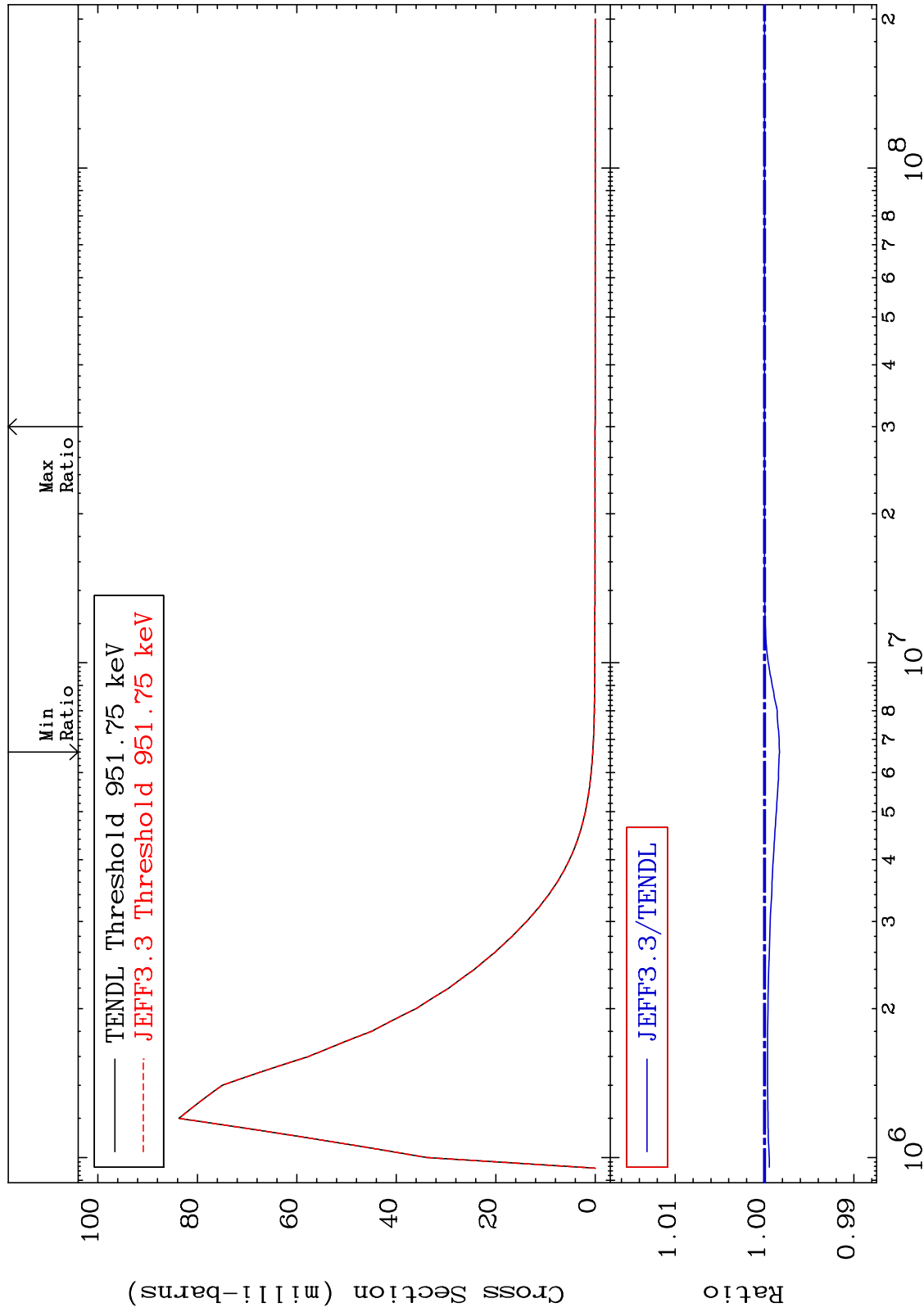


34 43-Tc-97

MAT 4319

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

43-Tc-97  
-0.167 To 0.000 %

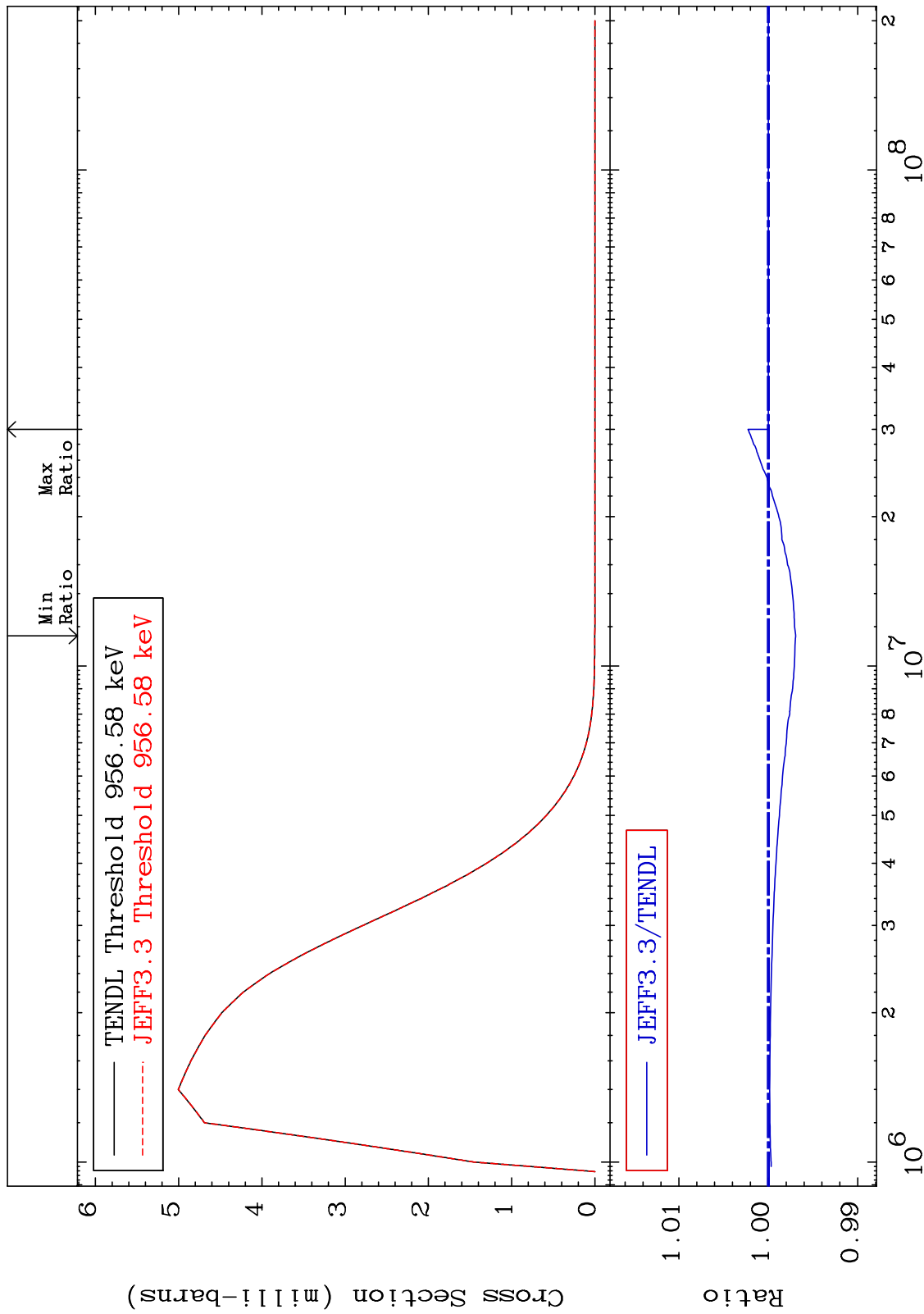


Incident Energy (eV)

43-Tc-97

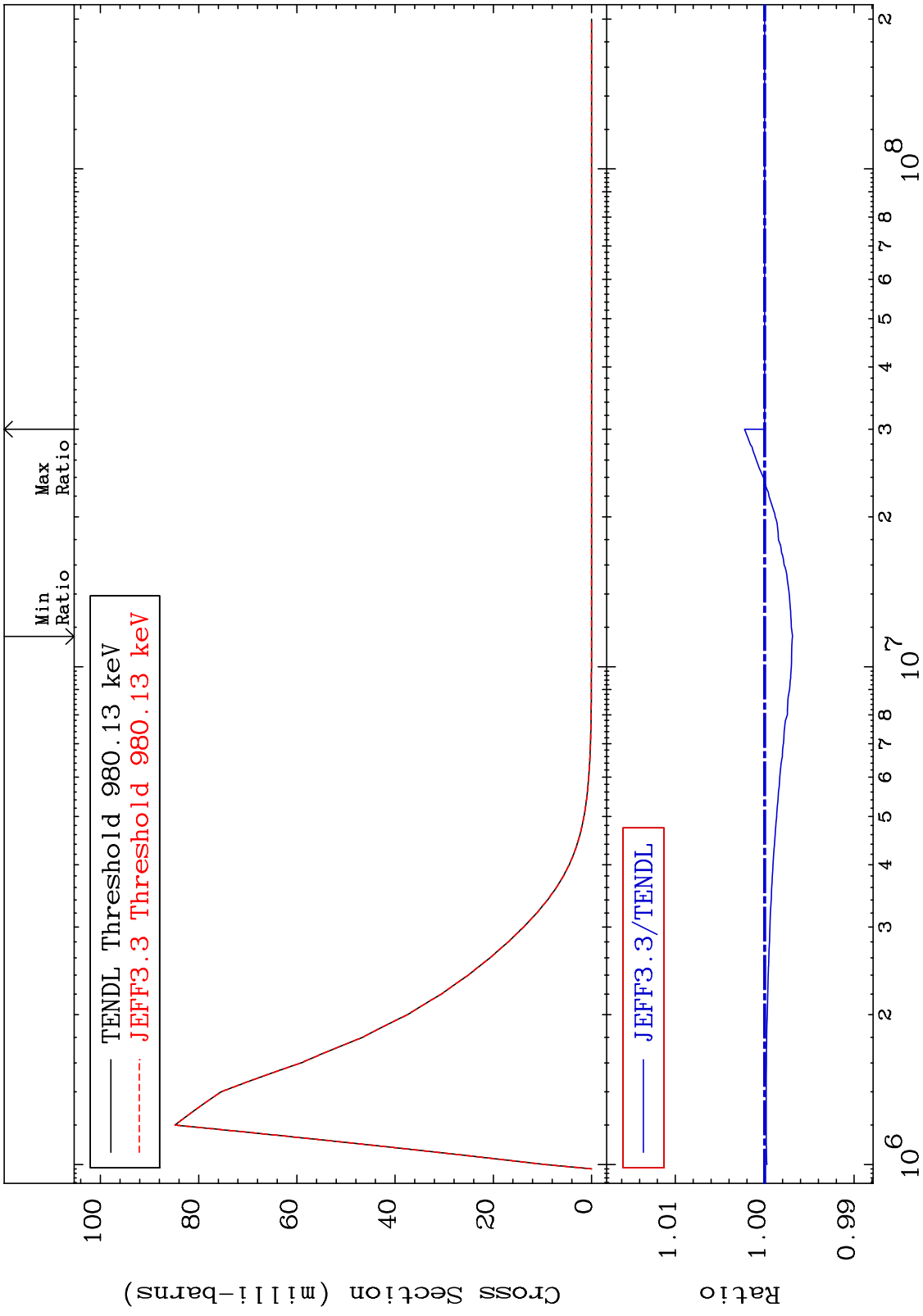
35

MAT 4319 MT= 67 (n, n') Level Cross Section 43-Tc-97  
-0.306 To 0.226 %



36 Incident Energy (eV) 43-Tc-97

MAT 4319 MT= 68 (n,n') Level Cross Section 43-Tc-97  
 -0.309 To 0.227 %

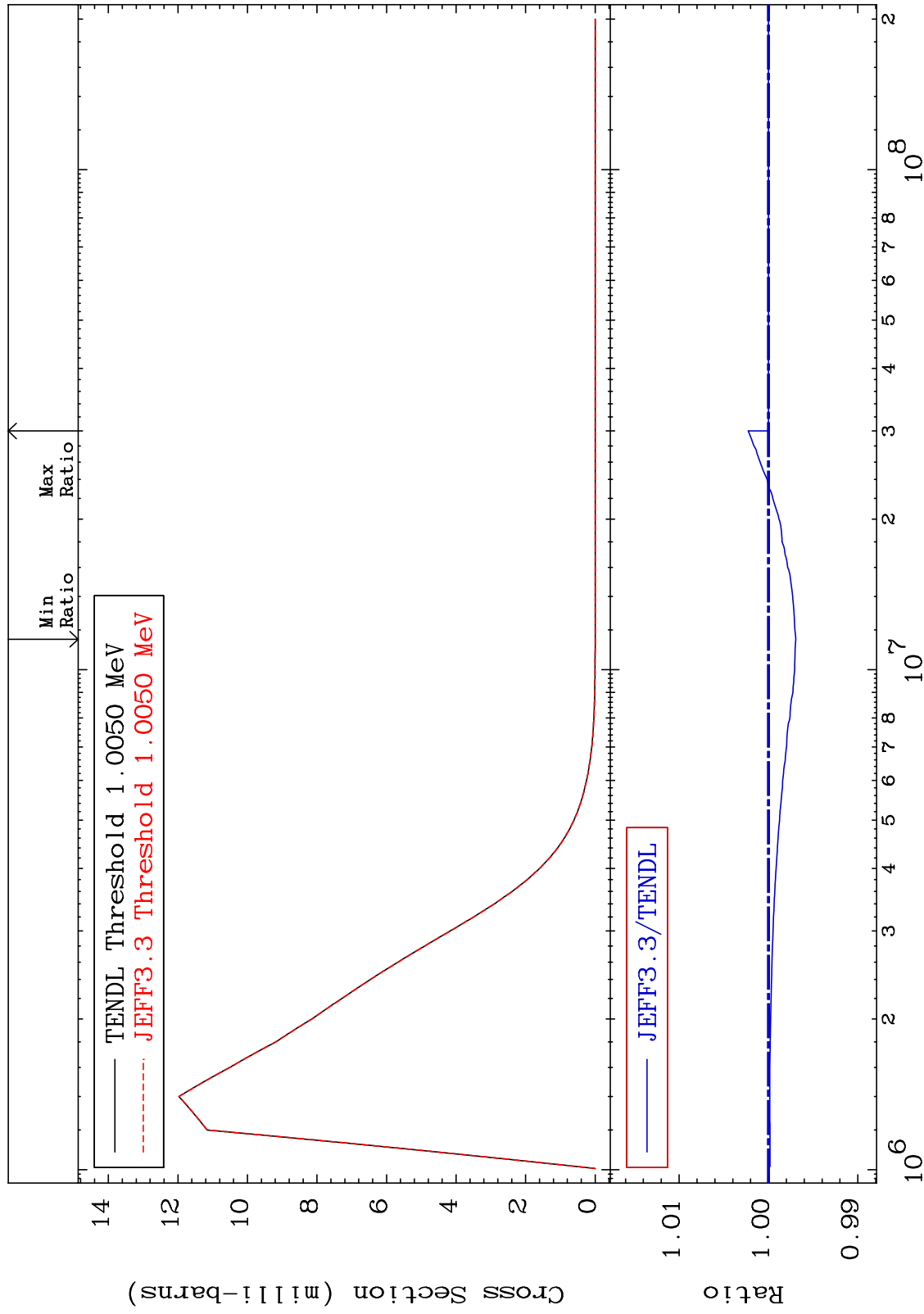


37 Incident Energy (eV) 43-Tc-97

MAT 4319

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

43-Tc-97  
-0.305 To 0.227 %



38

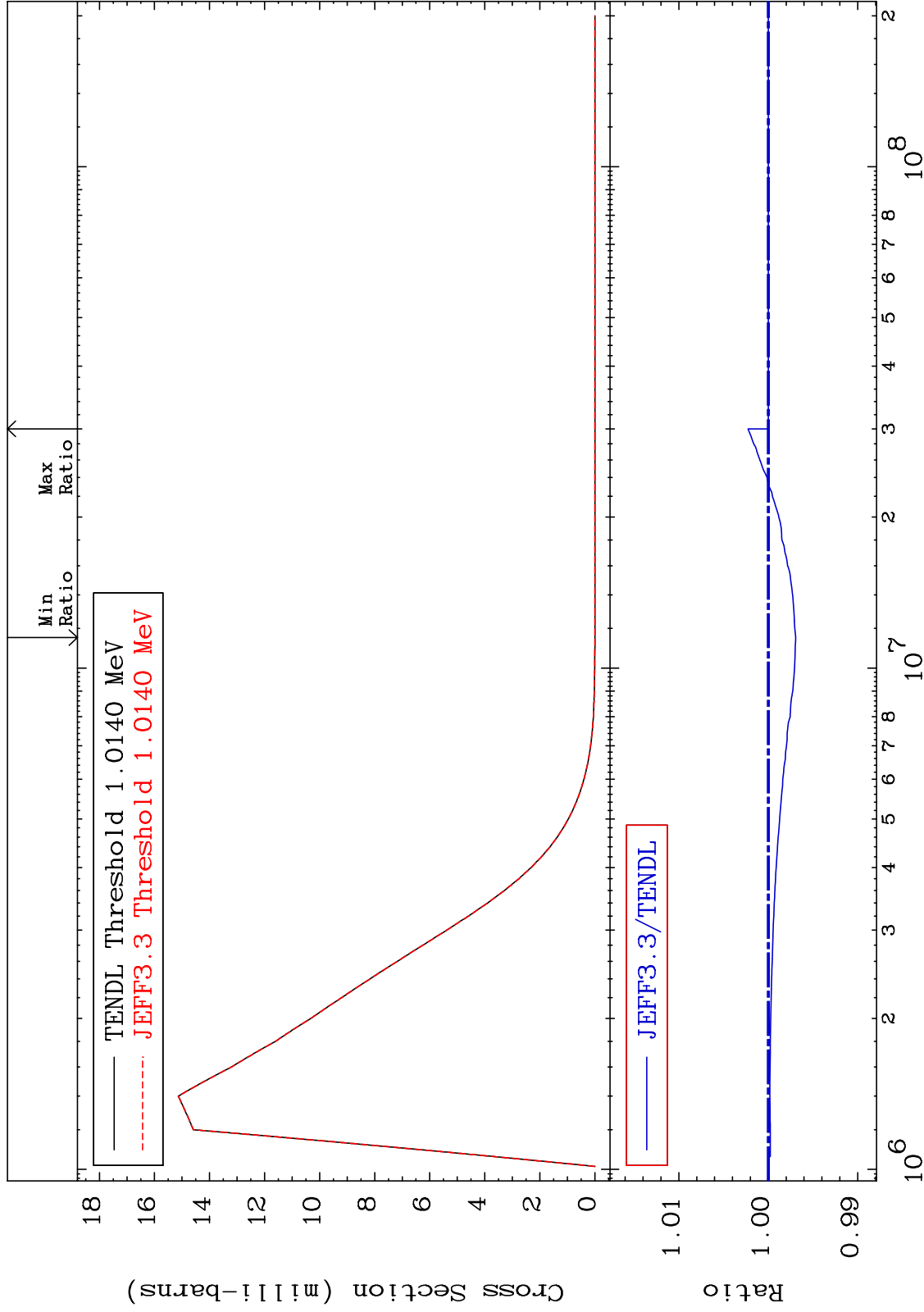
Incident Energy (eV)

43-Tc-97

MAT 4319

MT= 70 (n,n') Level  
Cross Section

43-Tc-97  
-0.307 To 0.227 %



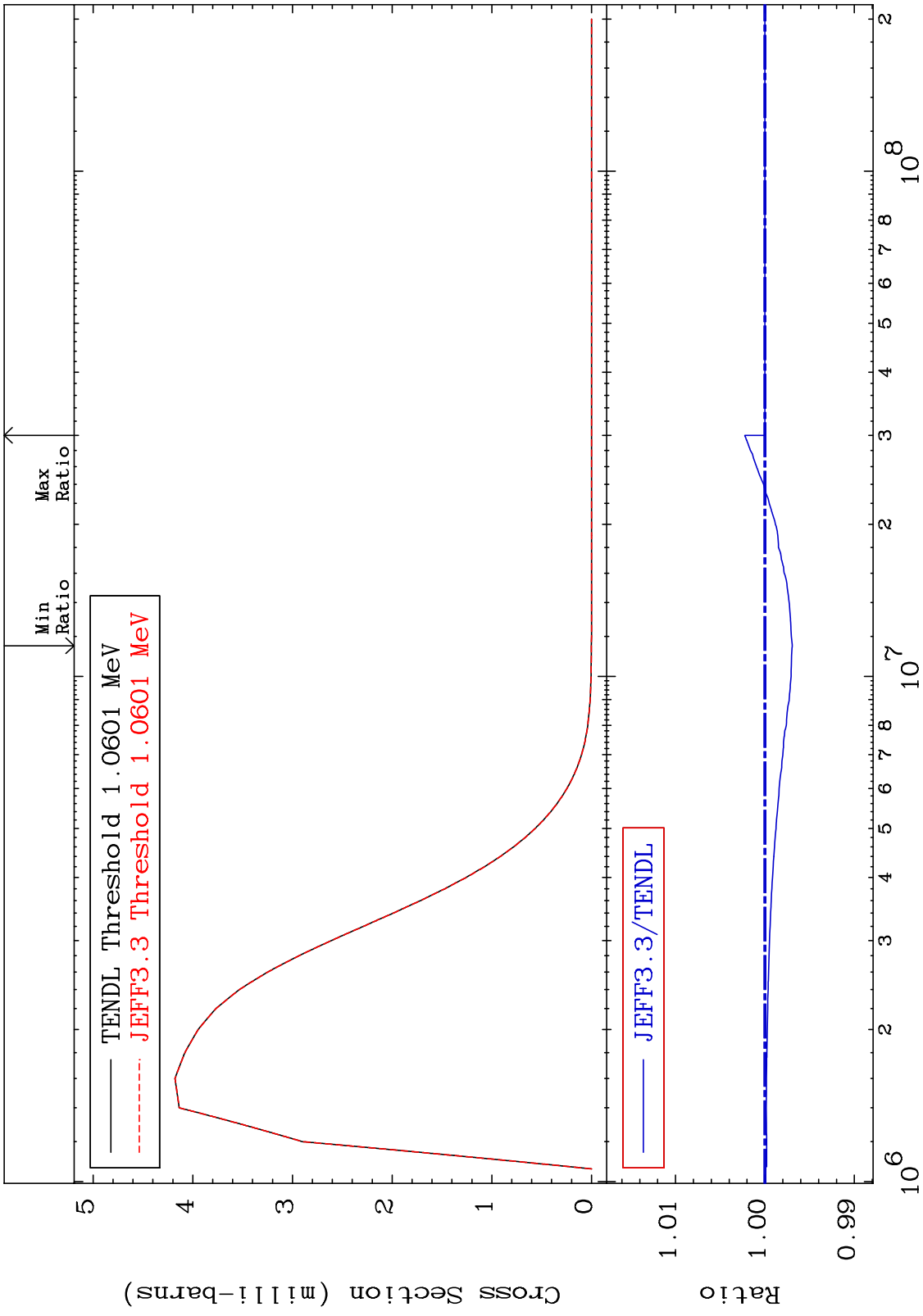
39

Incident Energy (eV)

43-Tc-97

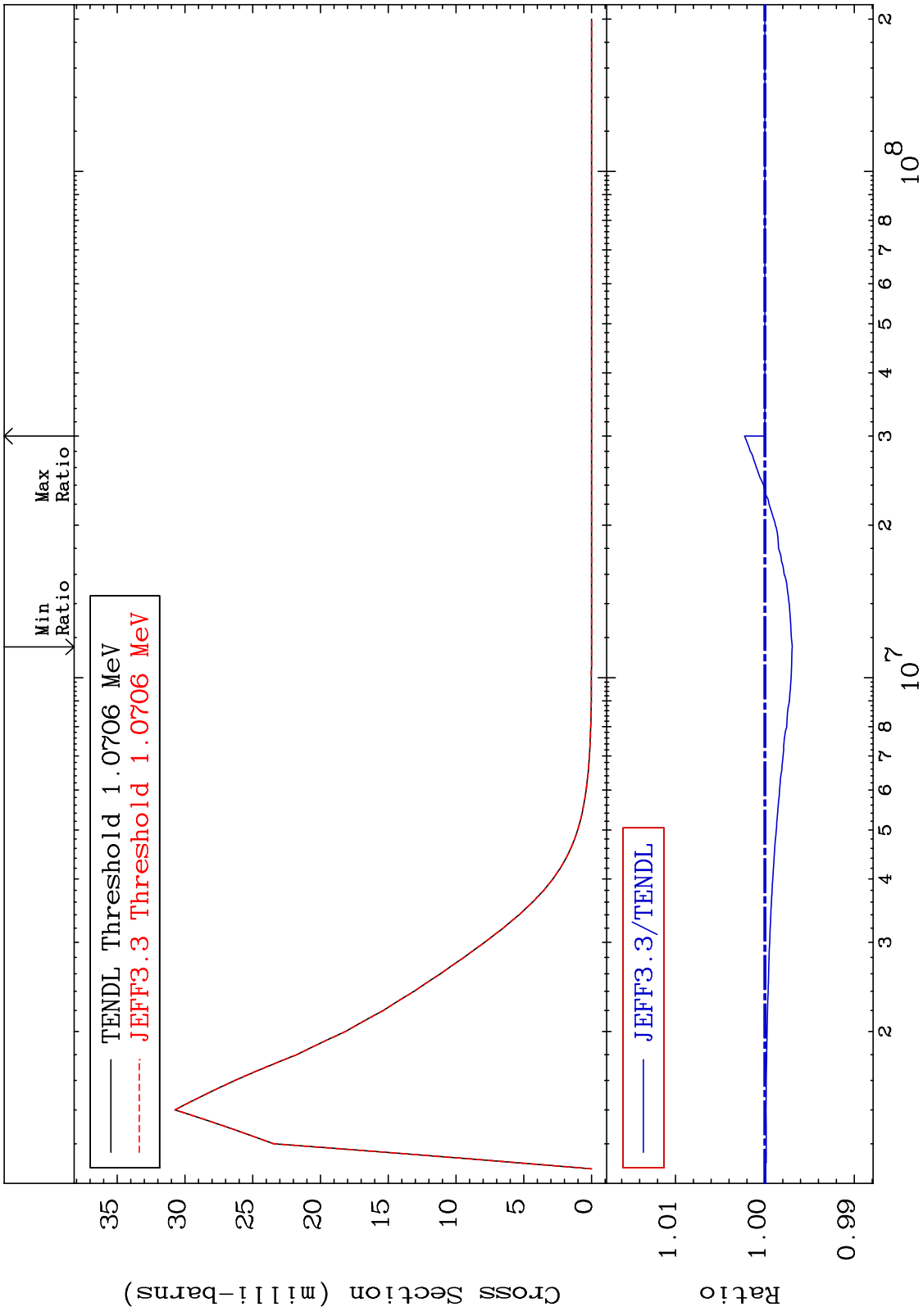


MAT 4319 MT= 71 (n,n') Level Cross Section 43-Tc-97  
-0.305 To 0.227 %

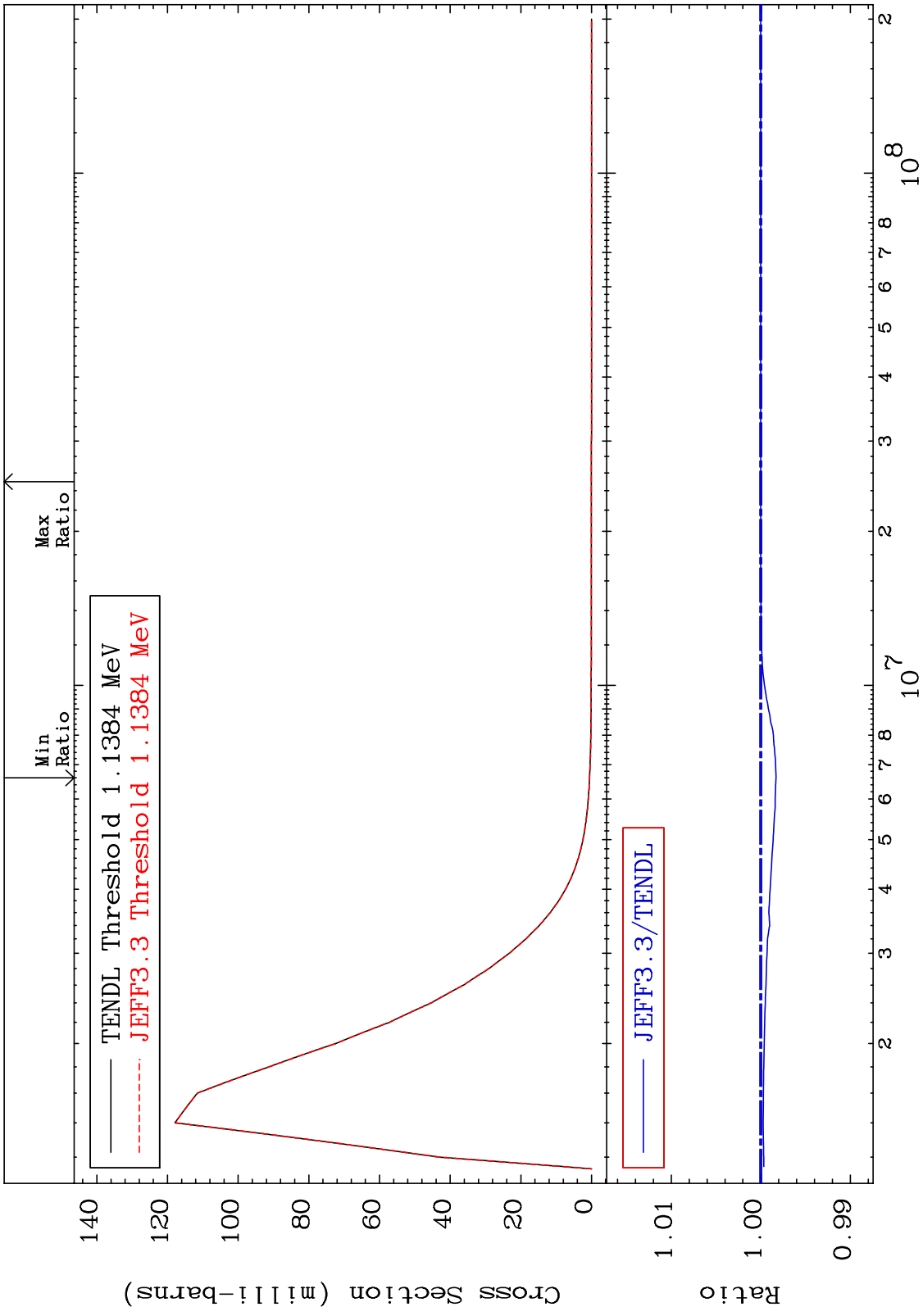


40 Incident Energy (eV) 43-Tc-97

MAT 4319 MT= 72 (n,n') Level Cross Section 43-Tc-97  
 -0.307 To 0.227 %



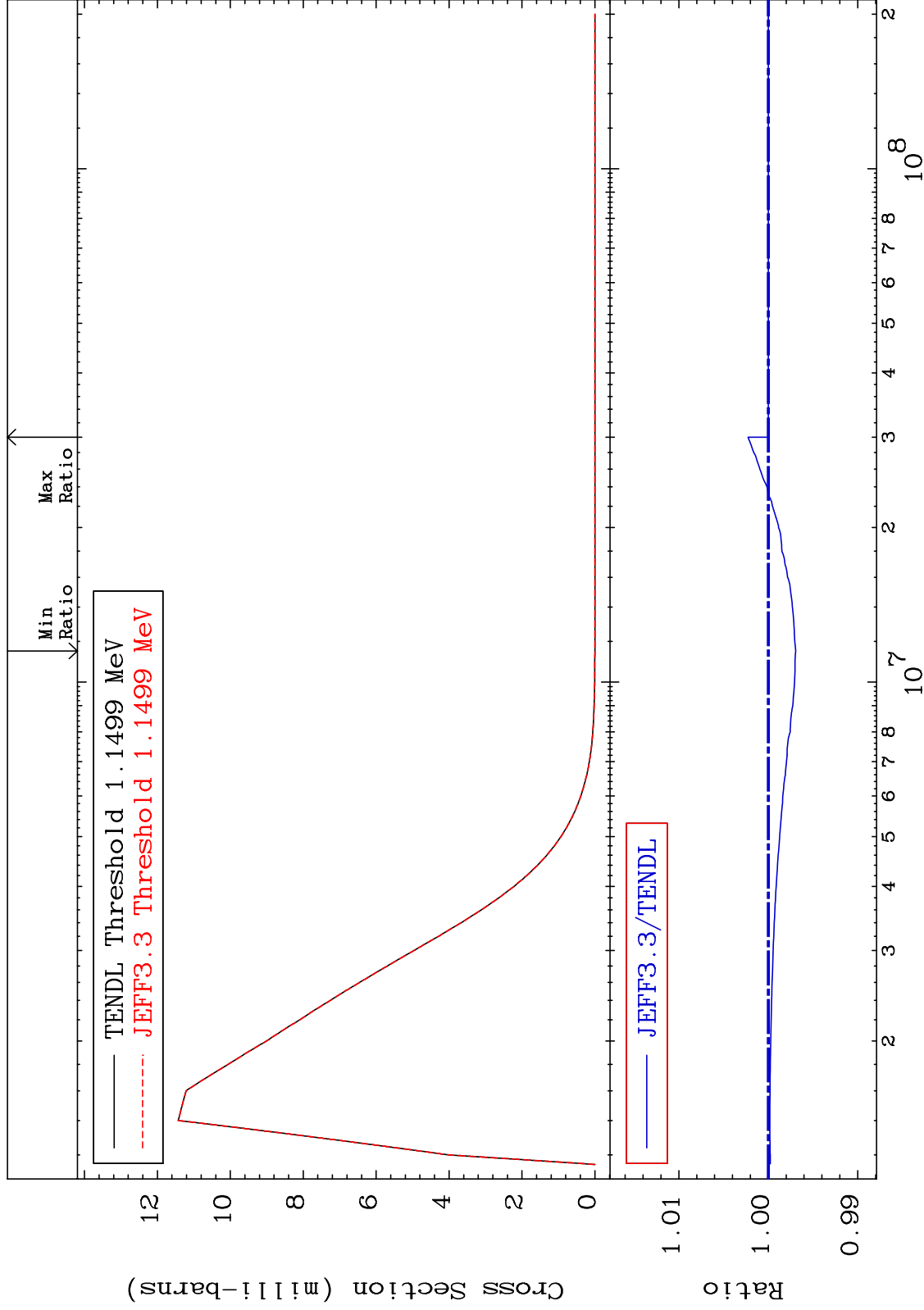
MAT 4319 MT= 73 (n,n') Level Cross Section -0.171 To 0.000 % 43-Tc-97



MAT 4319

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

43-Tc-97  
-0.307 To 0.227 %

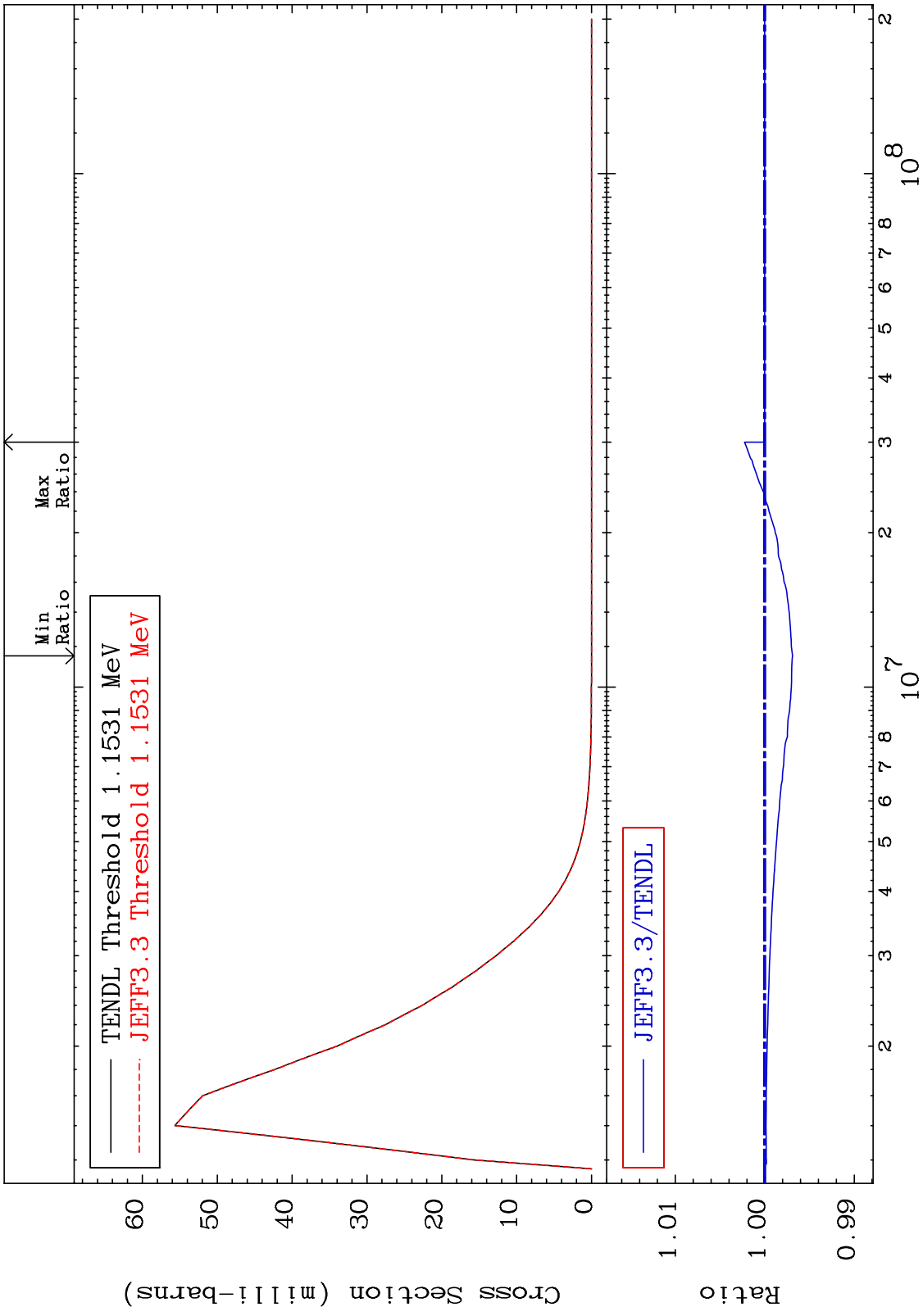


43

Incident Energy (eV)

43-Tc-97

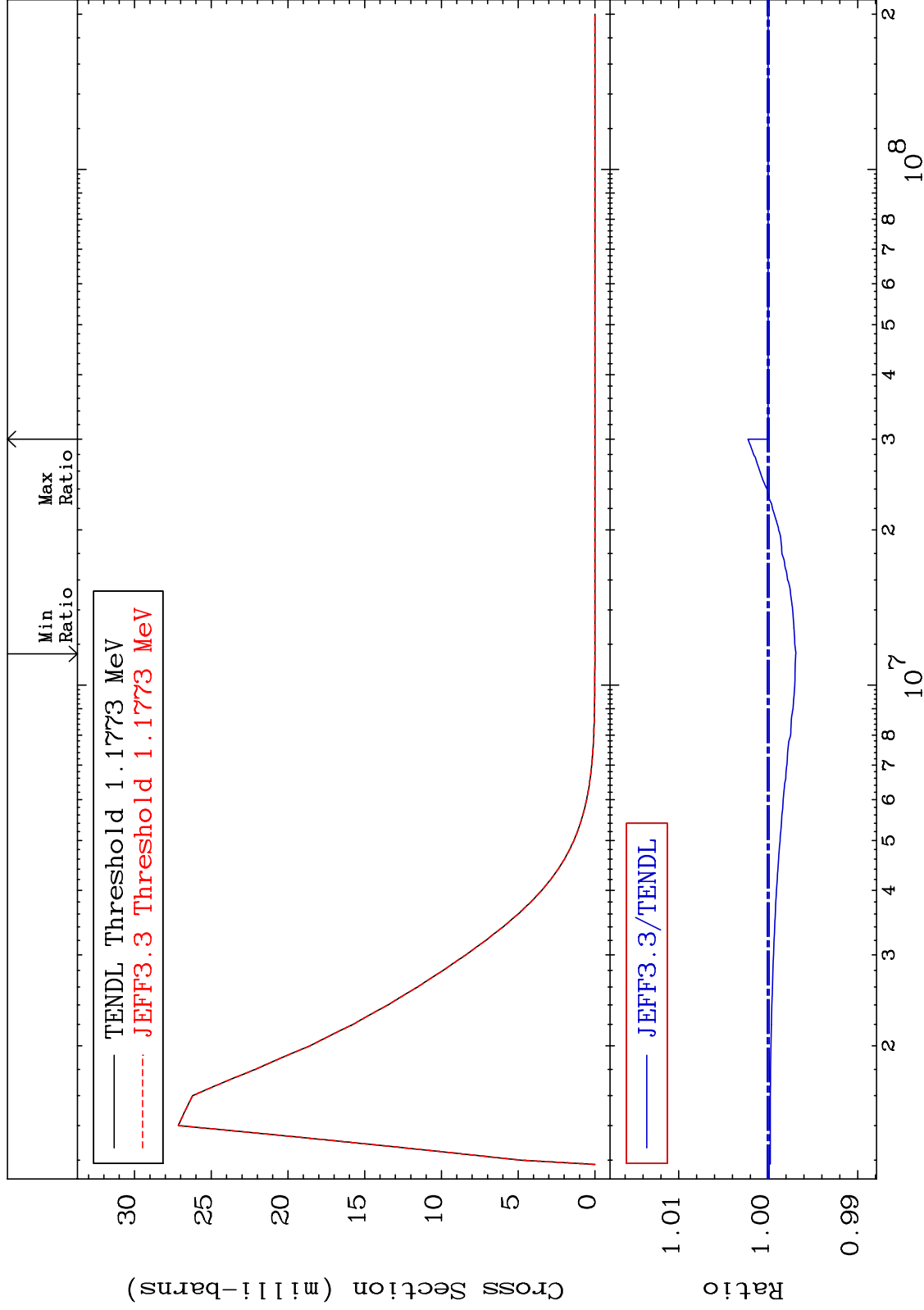
MAT 4319 MT= 75 (n,n') Level Cross Section 43-Tc-97  
 -0.309 To 0.227 %



MAT 4319

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

43-Tc-97  
-0.309 To 0.227 %



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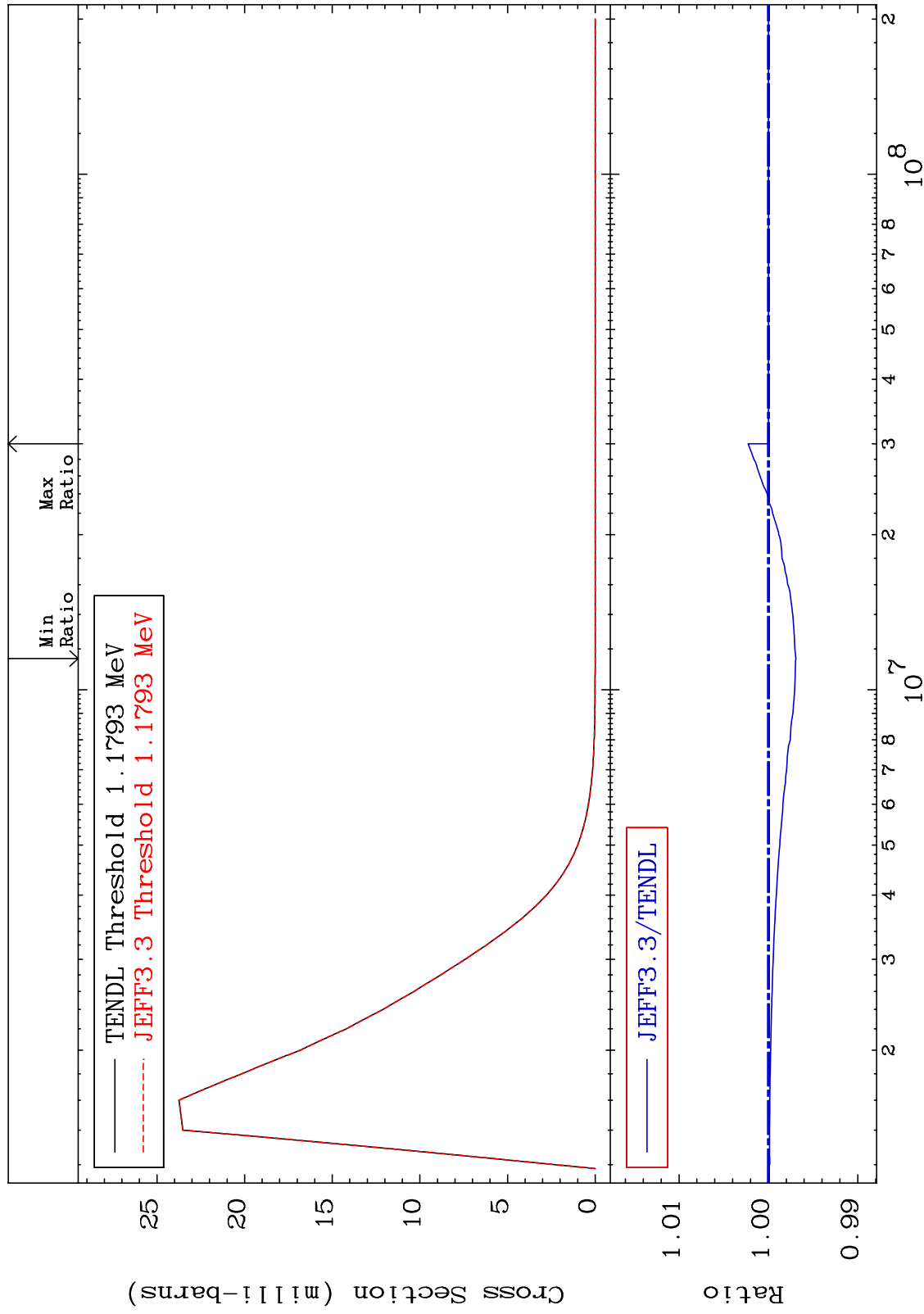
Incident Energy (eV)

43-Tc-97

MAT 4319

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

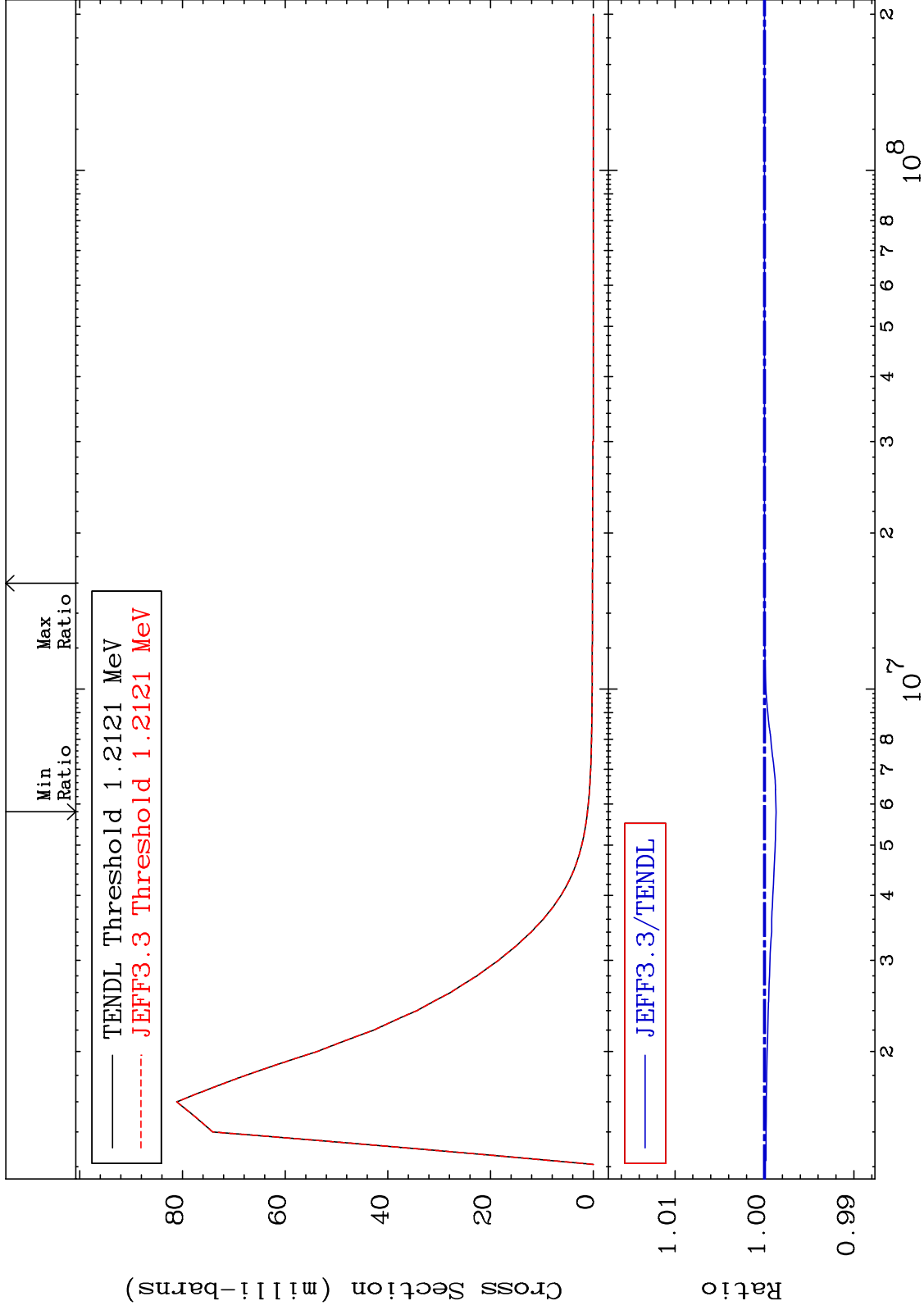
43-Tc-97  
-0.308 To 0.227 %



MAT 4319

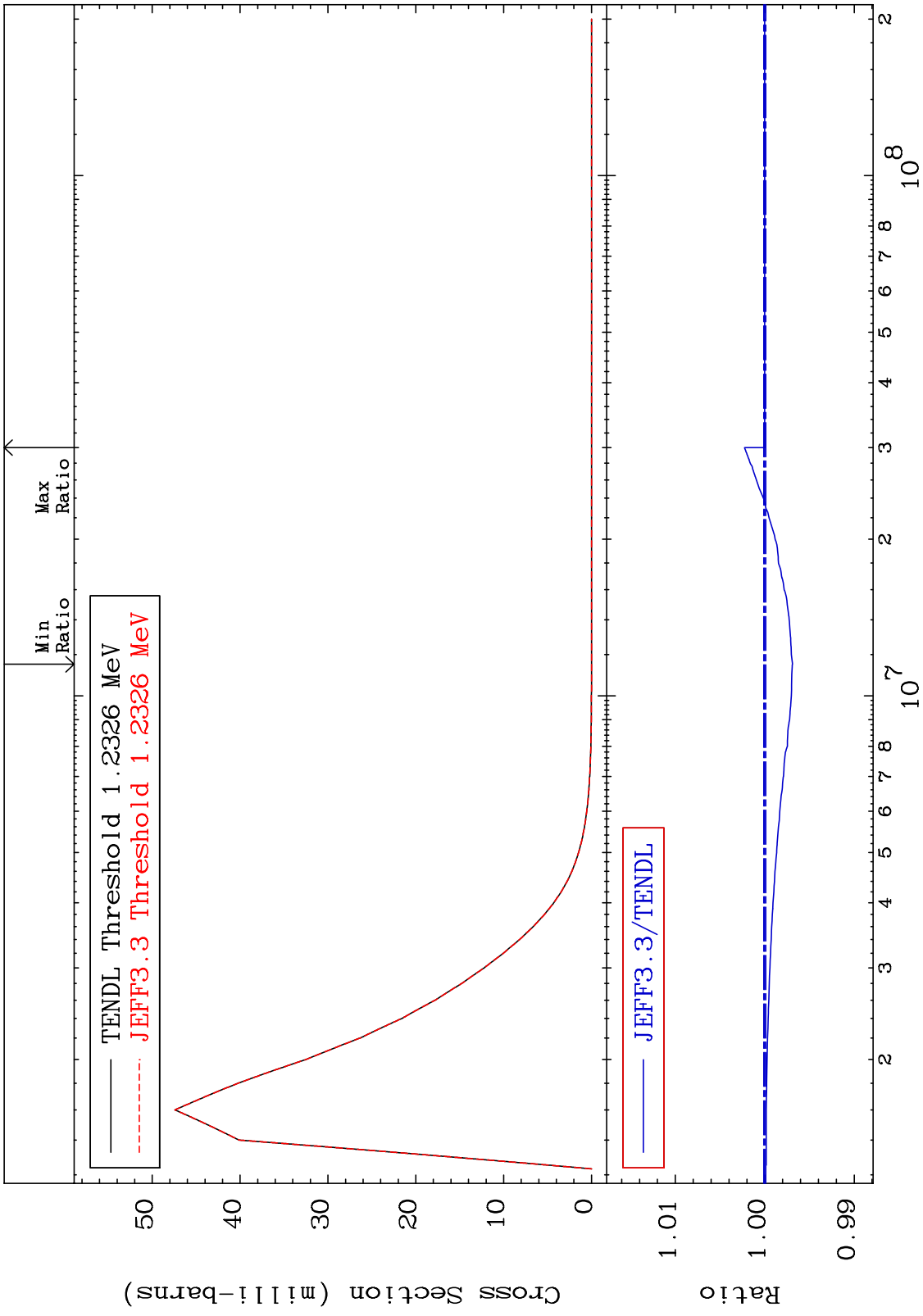
MT= 78 (n,n') Level  
Cross Section

43-Tc-97  
-0.130 To 0.000 %

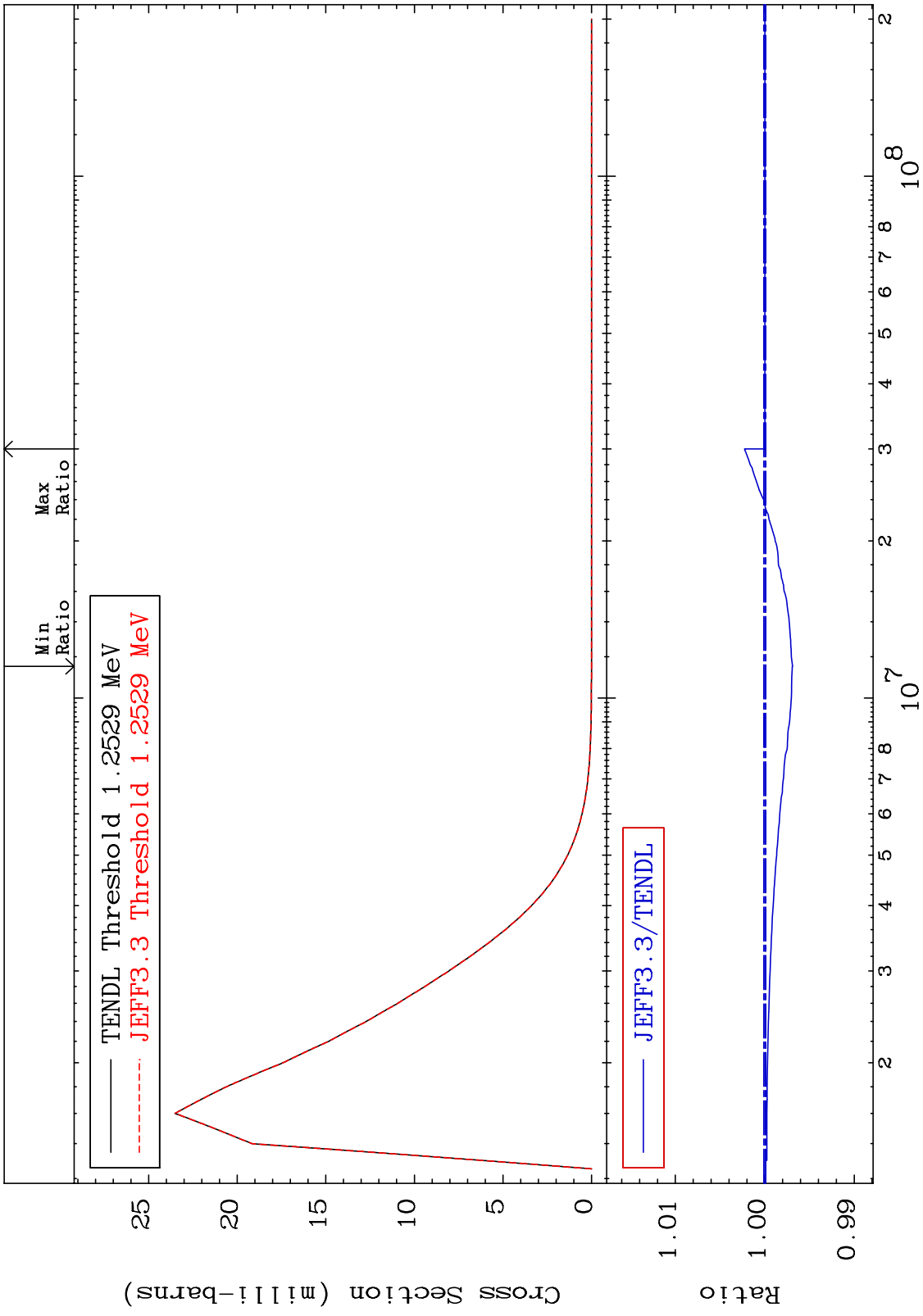




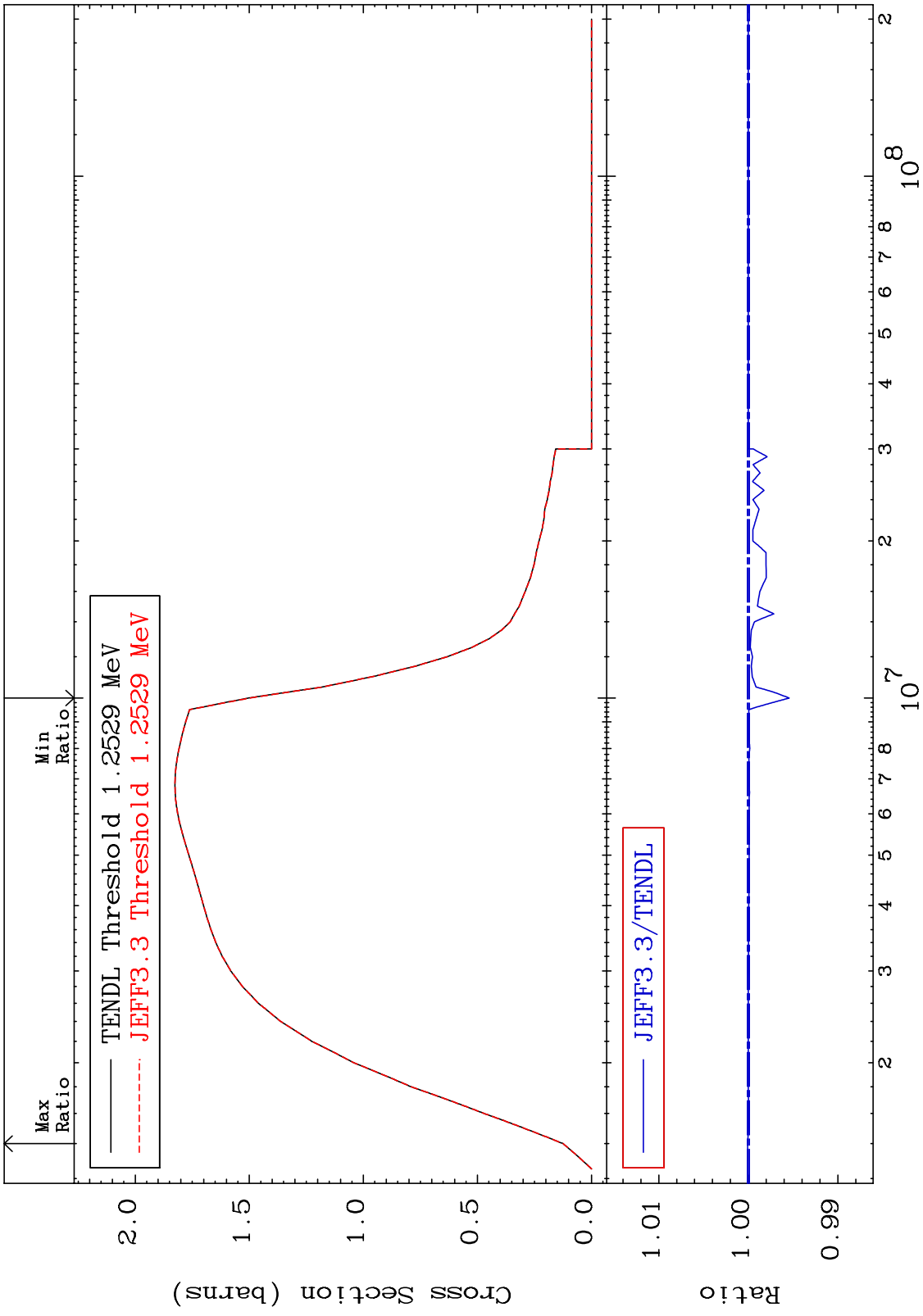
MAT 4319 MT= 79 (n,n') Level Cross Section 43-Tc-97  
 -0.309 To 0.227 %



MAT 4319 MT= 80 (n,n') Level Cross Section 43-Tc-97 -0.309 To 0.227 %



MAT 4319 (n,n') Continuum Cross Section 43-Tc-97  
 -0.456 To 0.007 %

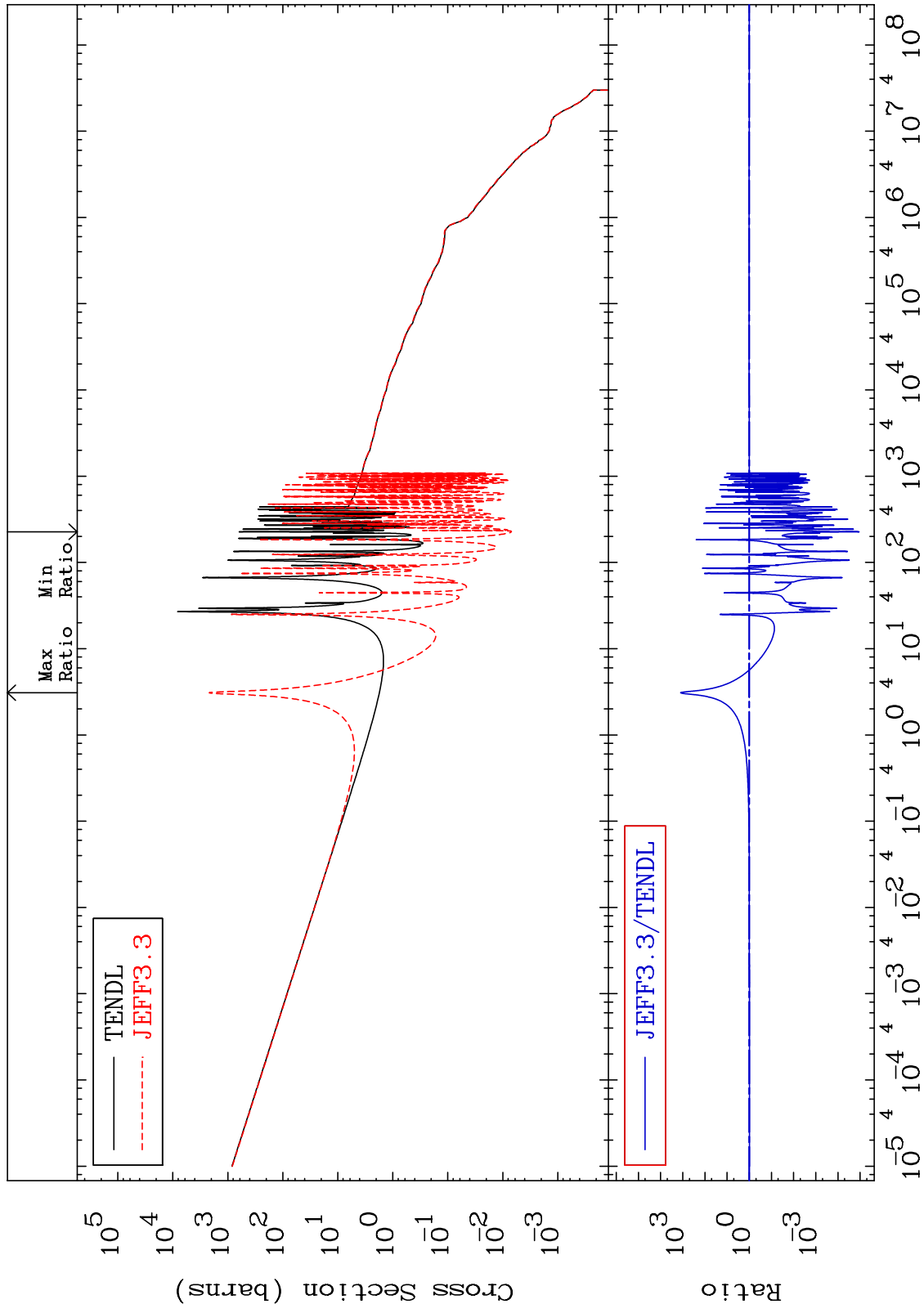


MAT 4319

43-Tc-97

-100.0 To 9999. %

(n,  $\gamma$ )  
Cross Section



Incident Energy (eV)

43-Tc-97

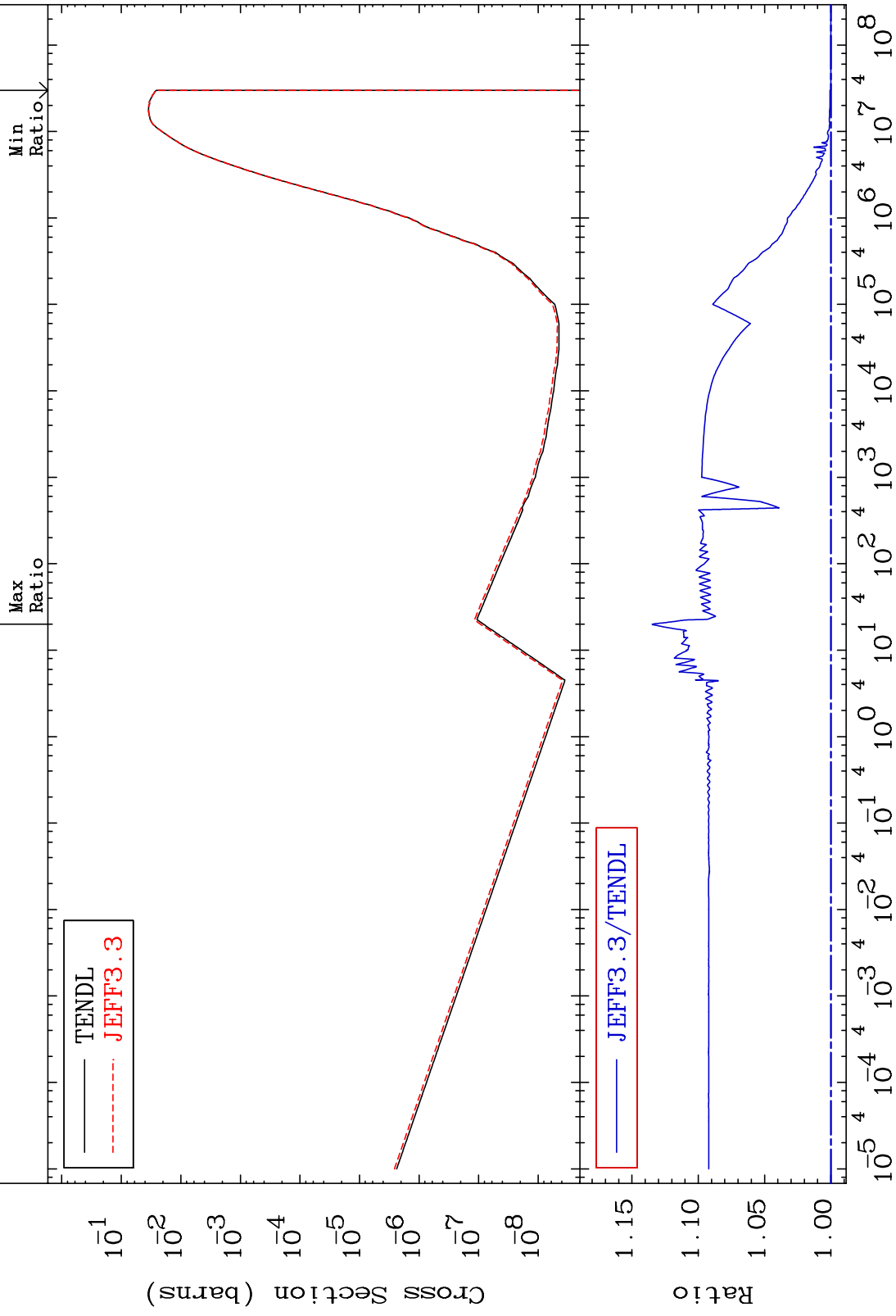
MAT 4319

43-Tc-97

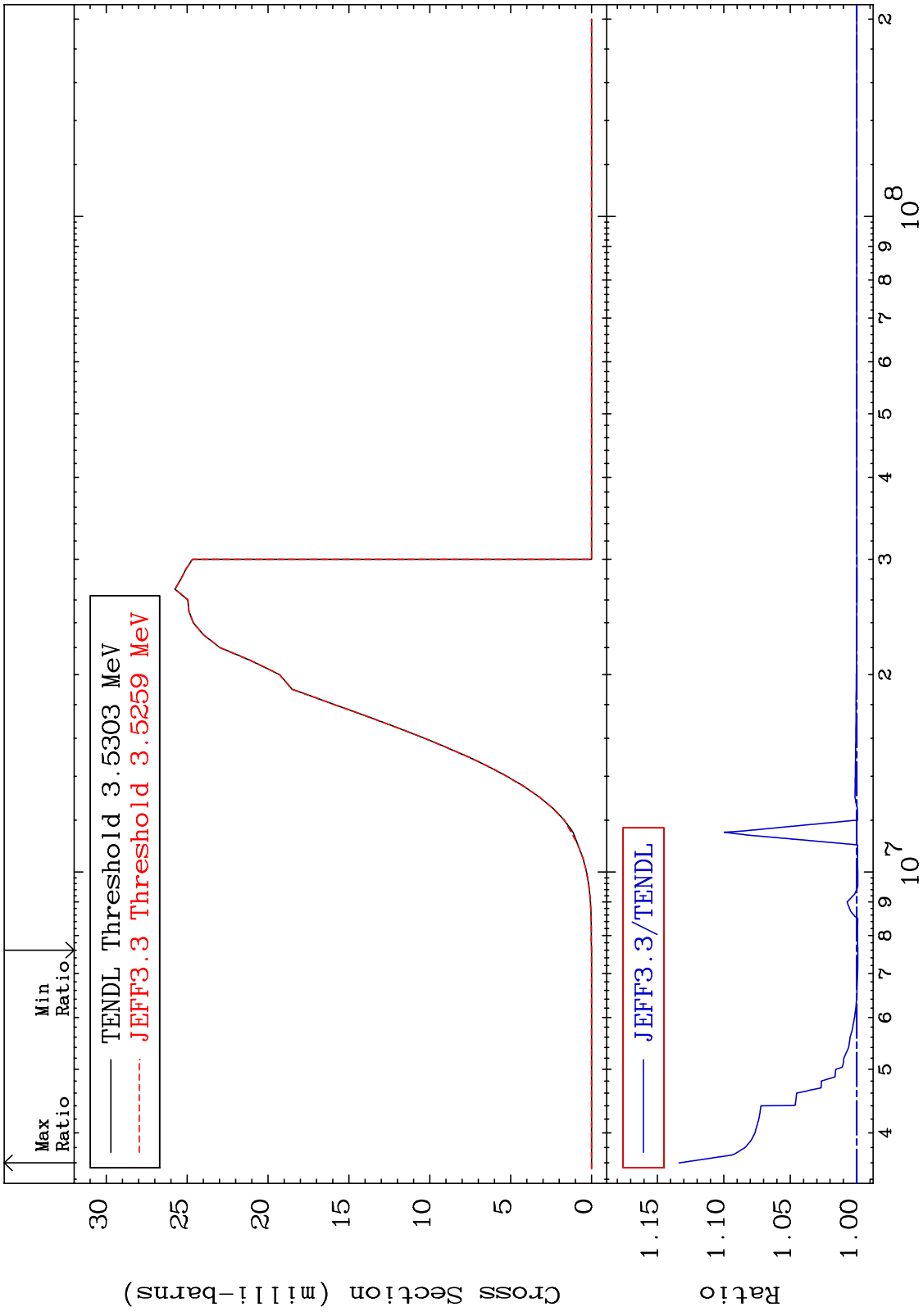
(n,p)

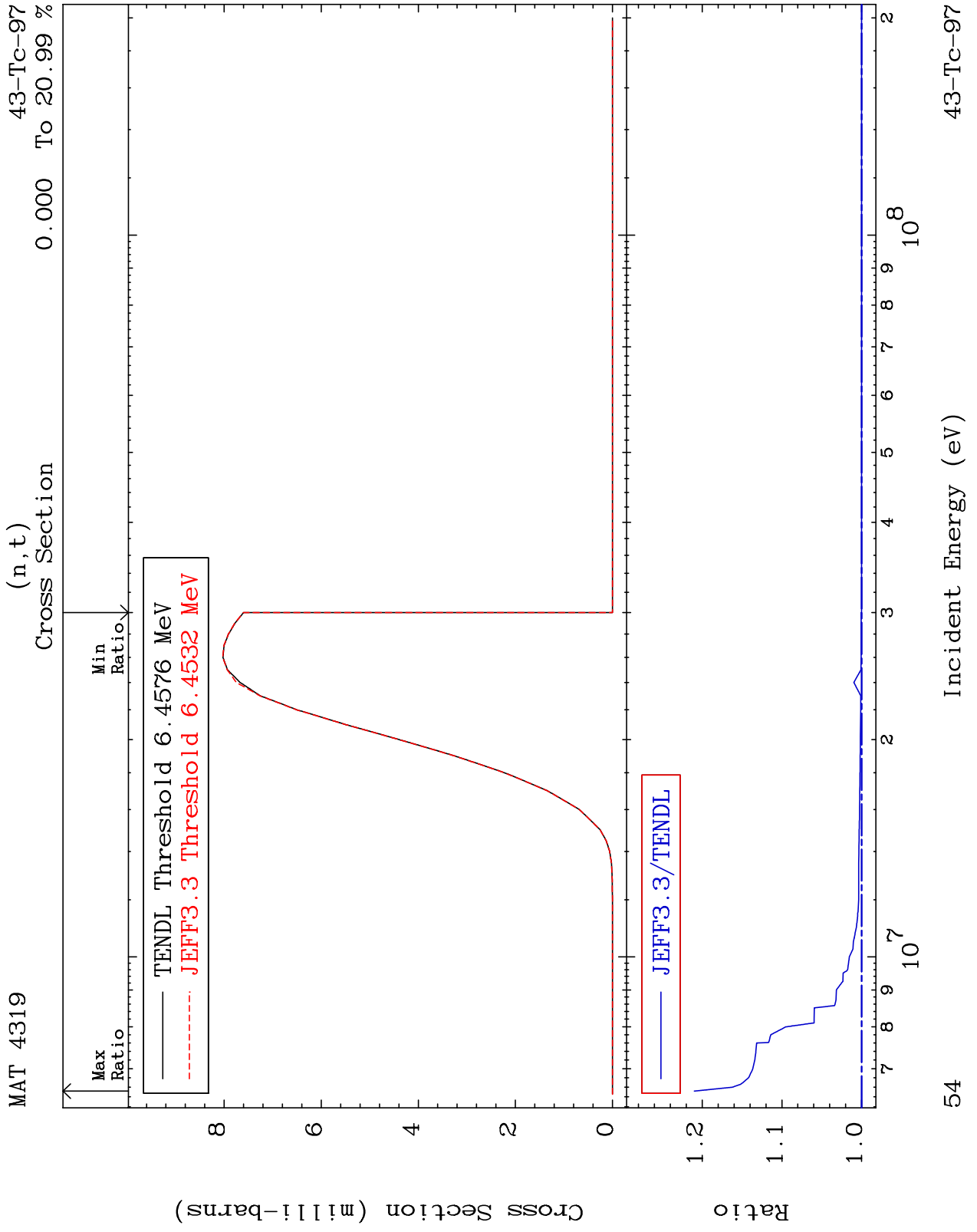
Cross Section

0.000 To 13.47 %

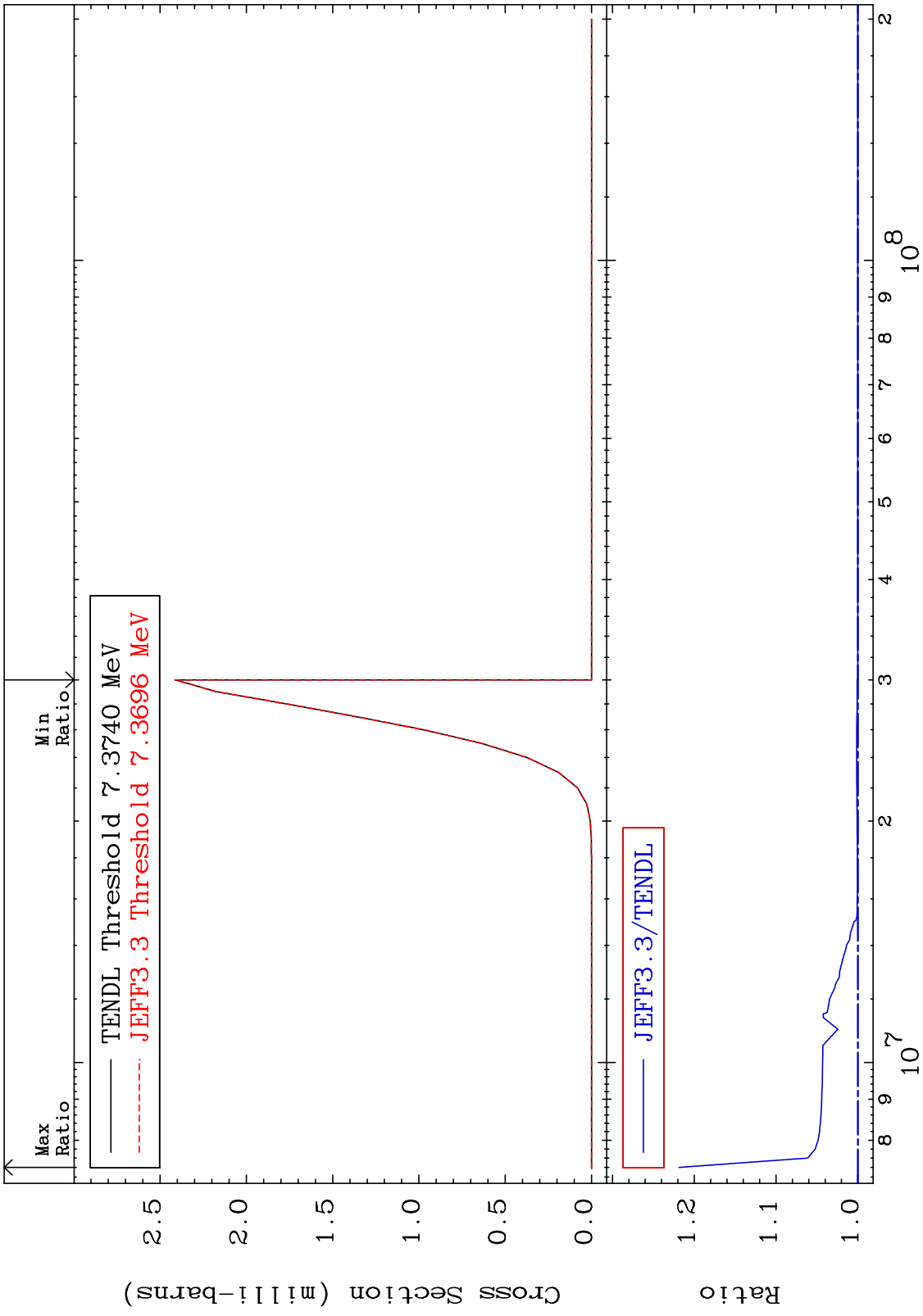


MAT 4319 (n,d) 43-Tc-97  
Cross Section -0.084 To 13.36 %





MAT 4319 (n, He-3) Cross Section 43-Tc-97 To 21.86 %





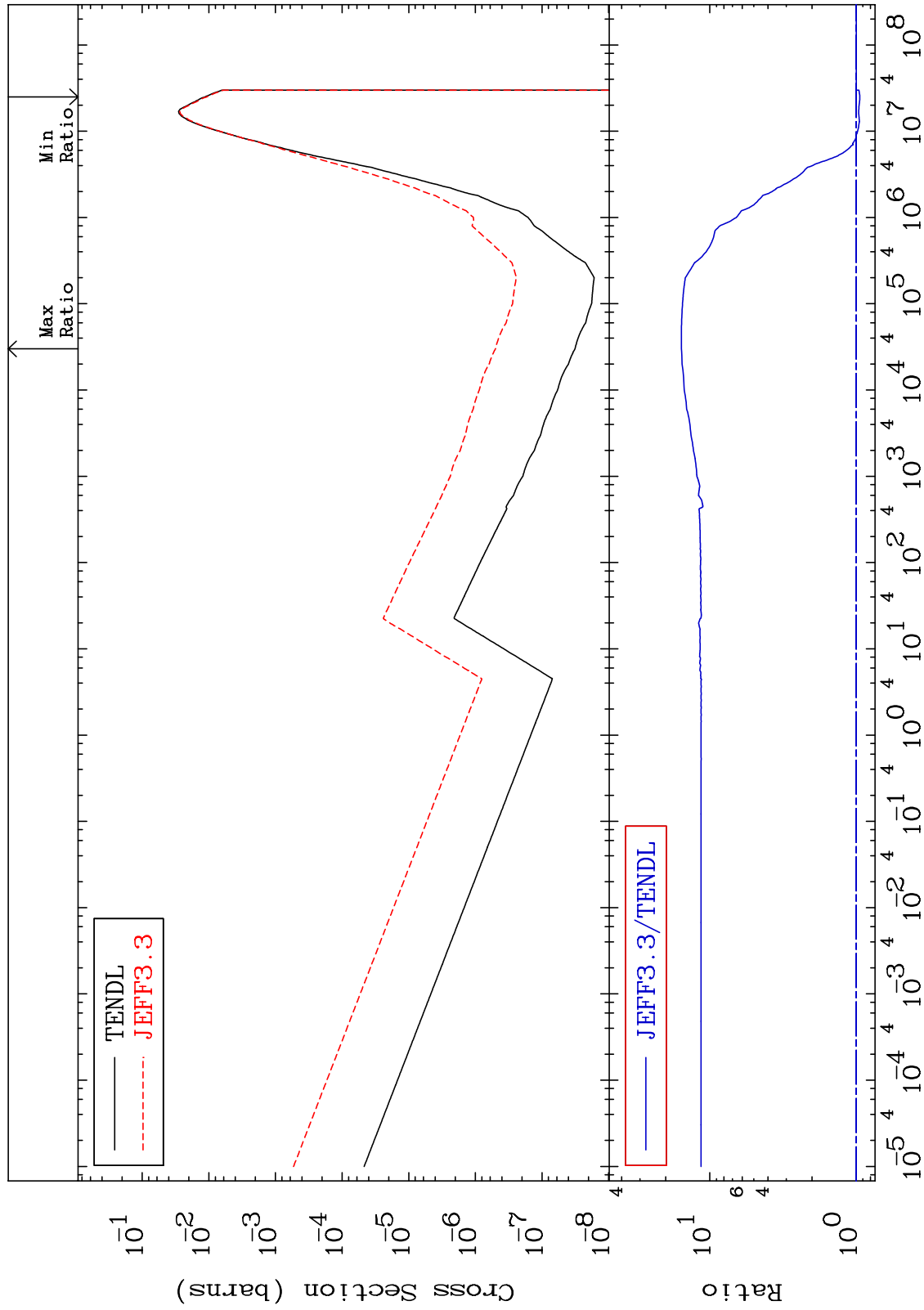
MAT 4319

(n,  $\alpha$ )

43-Tc-97

Cross Section

-5.570 To 1462. %



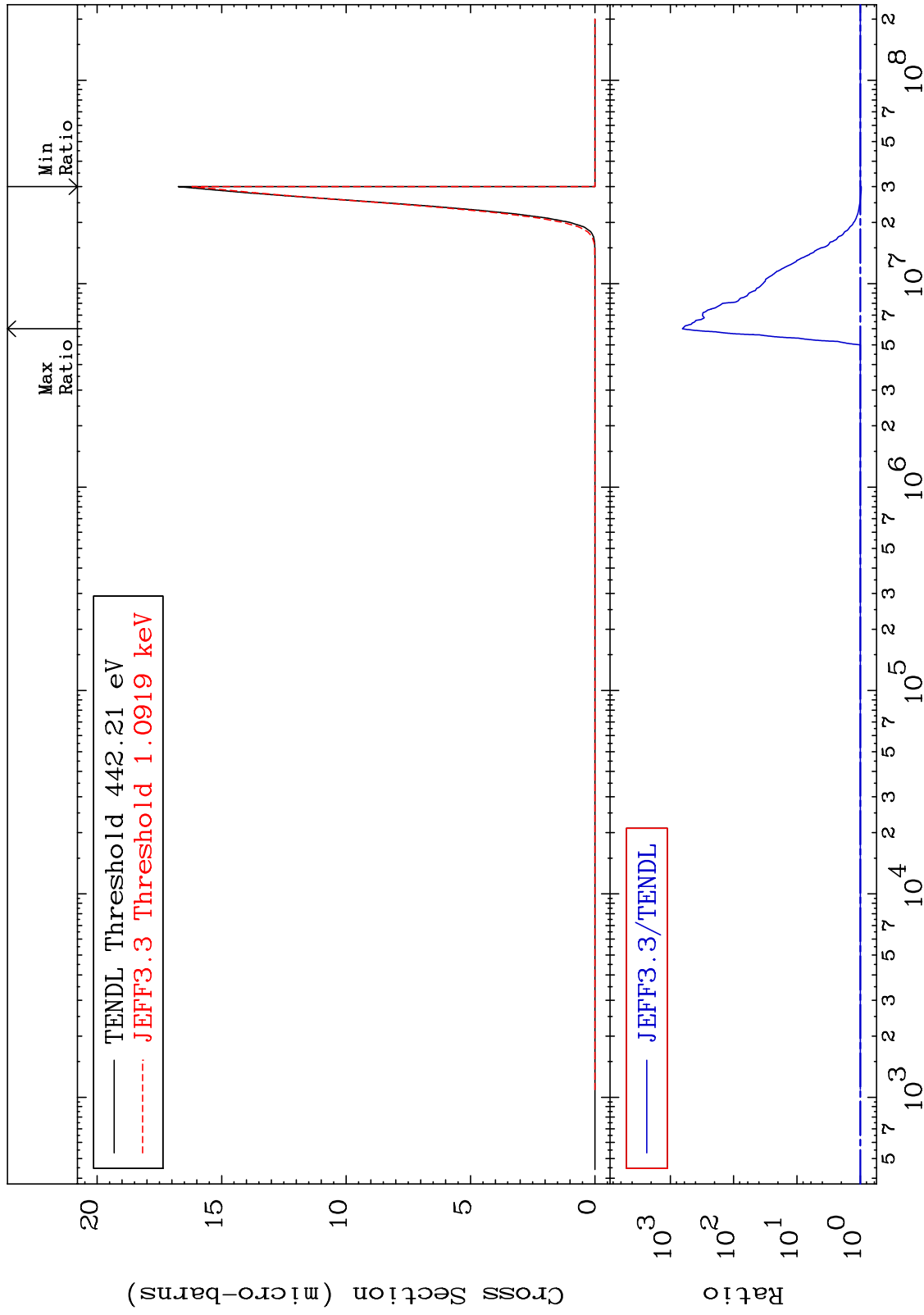
MAT 4319

(n,2α)

43-Tc-97

Cross Section

-3.282 To 9999. %

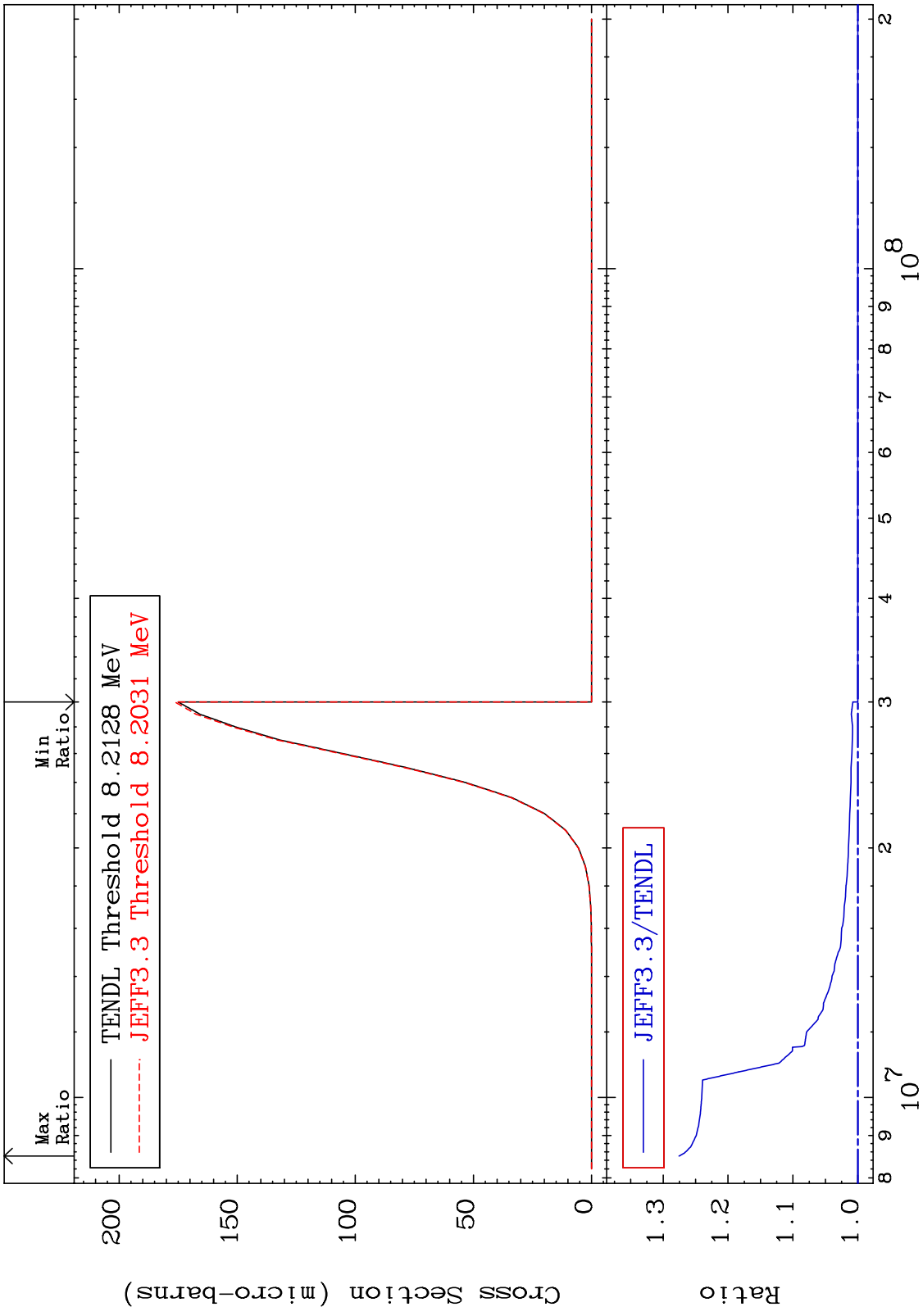


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Incident Energy (eV)

43-Tc-97

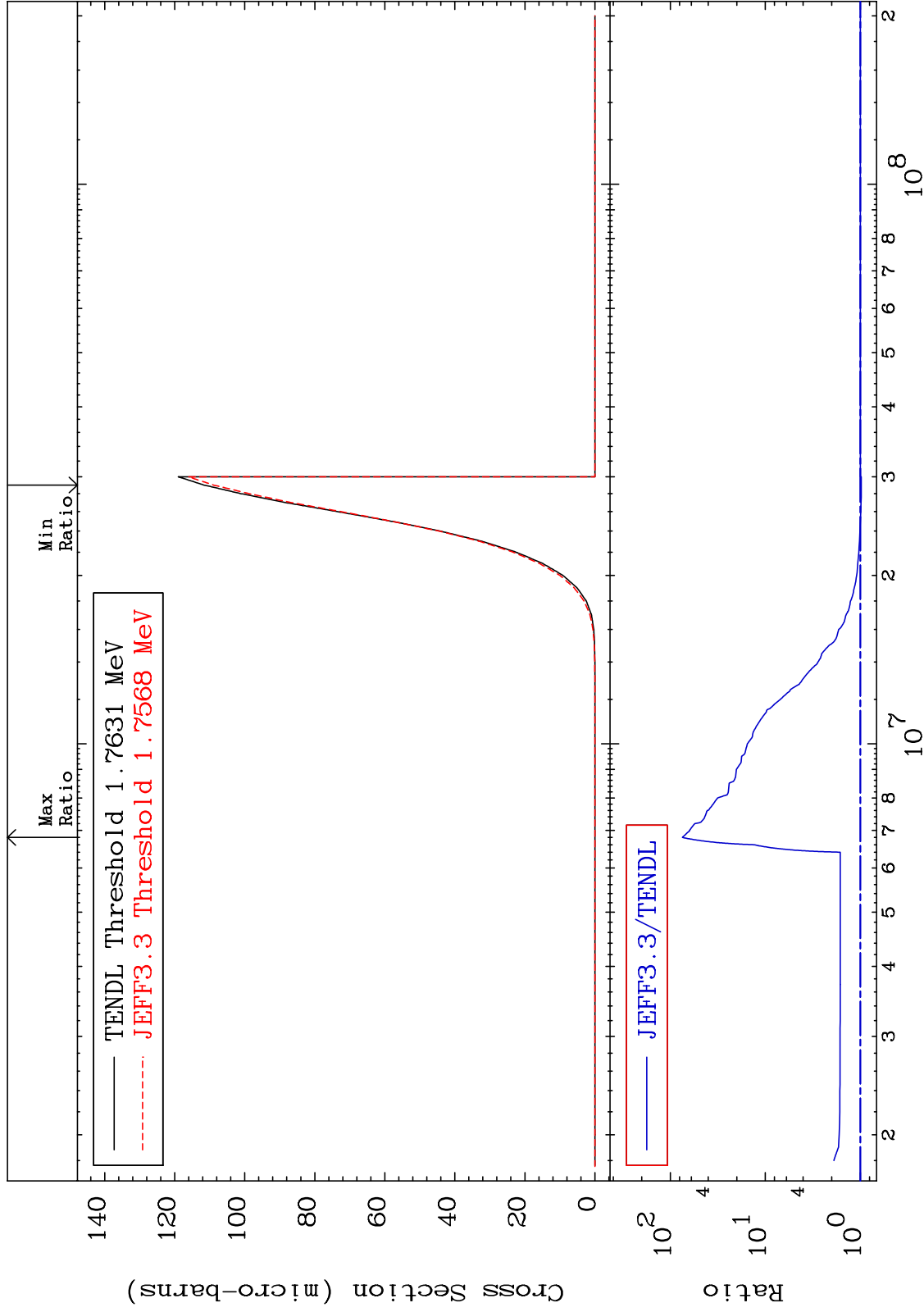
MAT 4319 (n,2p) Cross Section 43-Tc-97 To 27.55 %



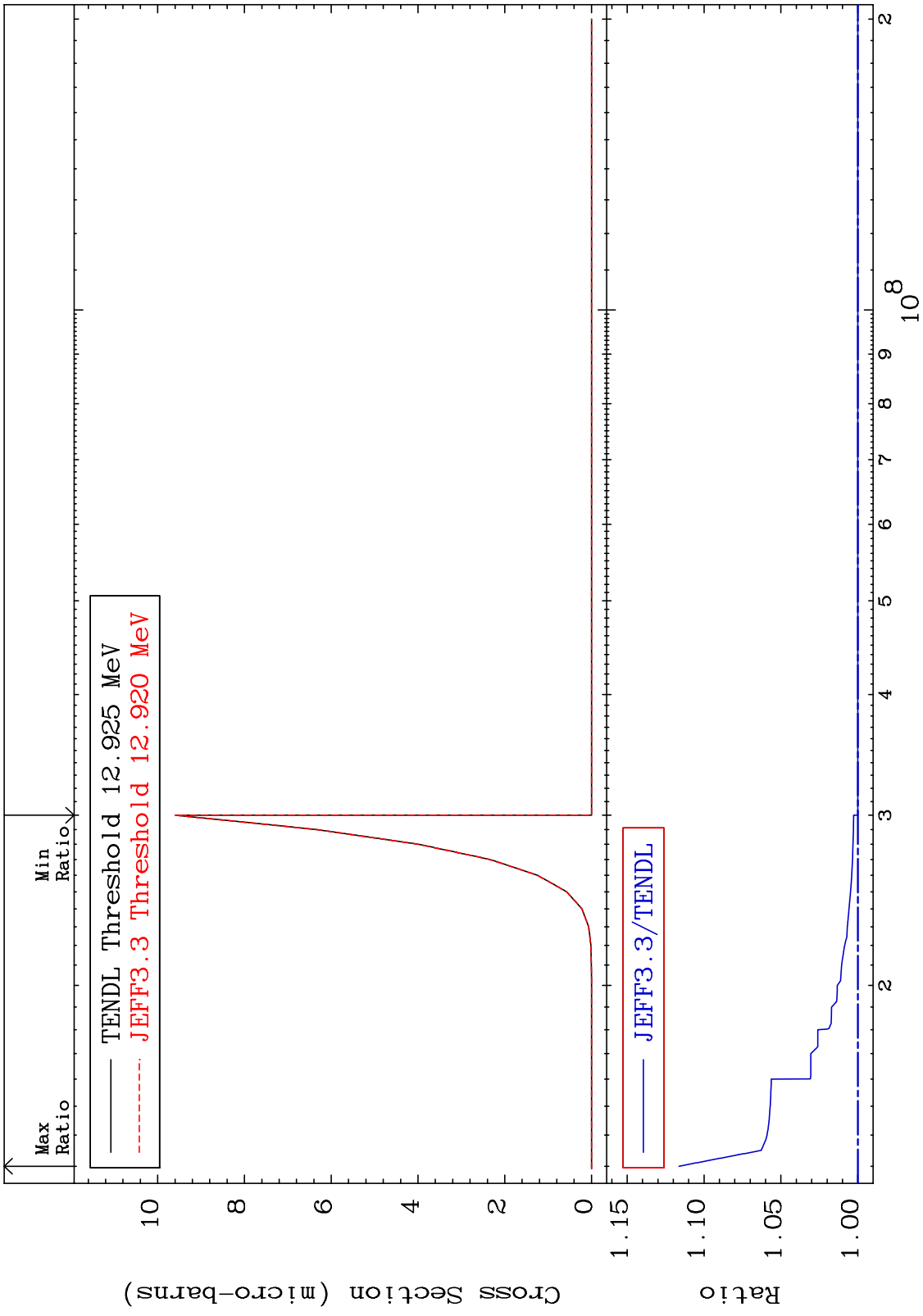
MAT 4319

(n,p)  $\alpha$   
Cross Section

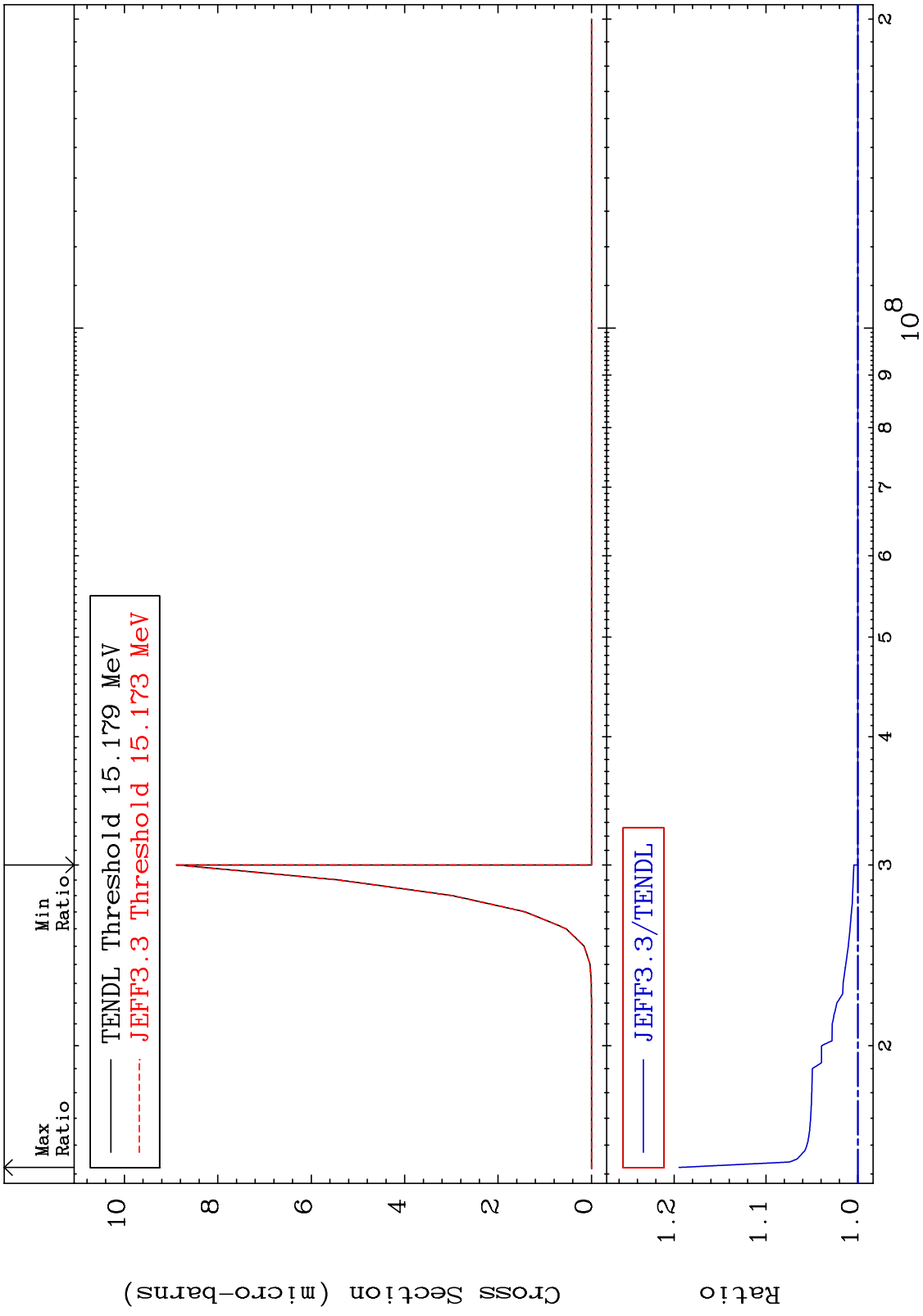
43-Tc-97  
-2.451 To 7359. %



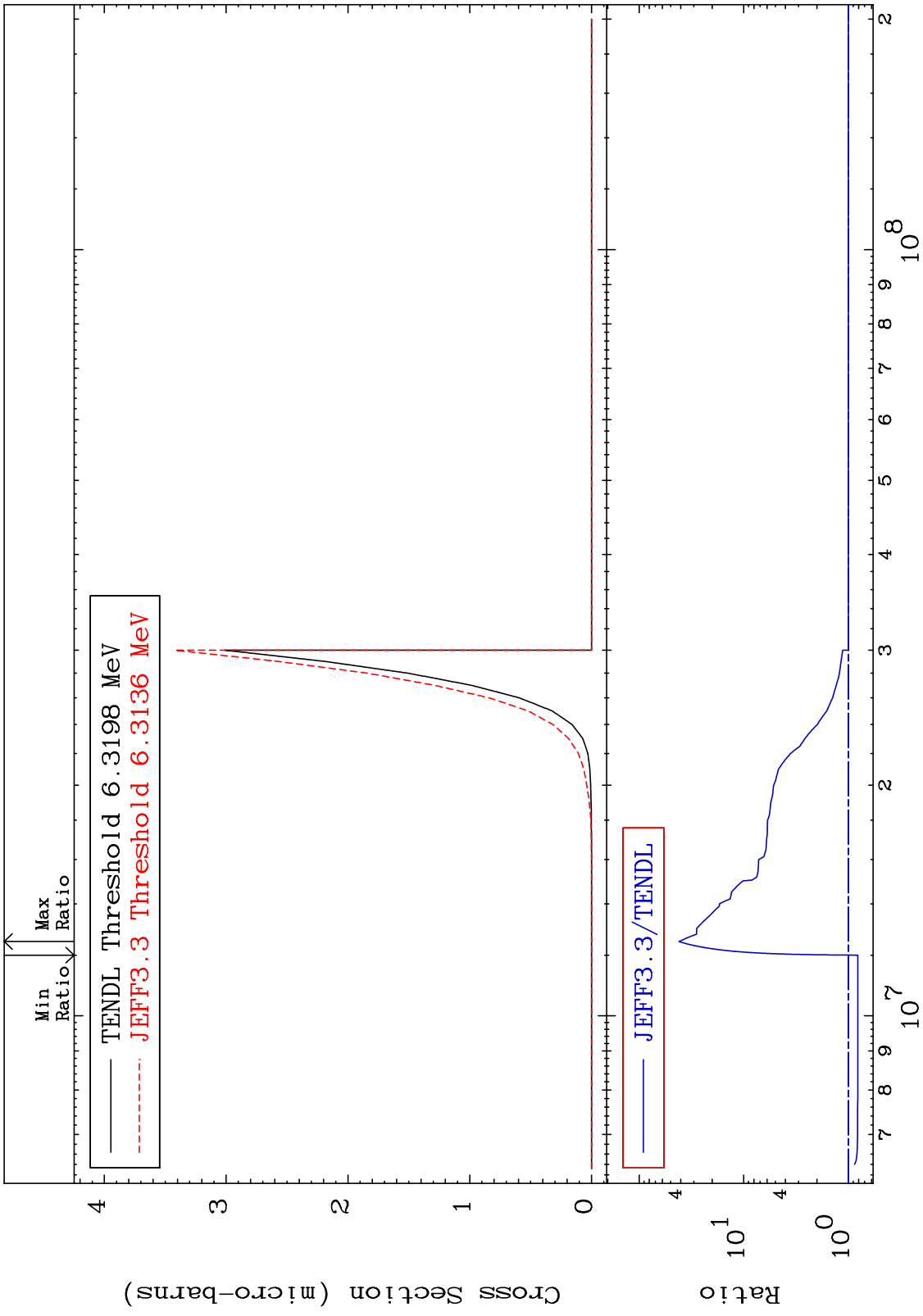
MAT 4319 (n,p) d 43-Tc-97  
 Cross Section 0.000 To 11.63 %



MAT 4319 (n,p) t 43-Tc-97  
 Cross Section 0.000 To 19.47 %



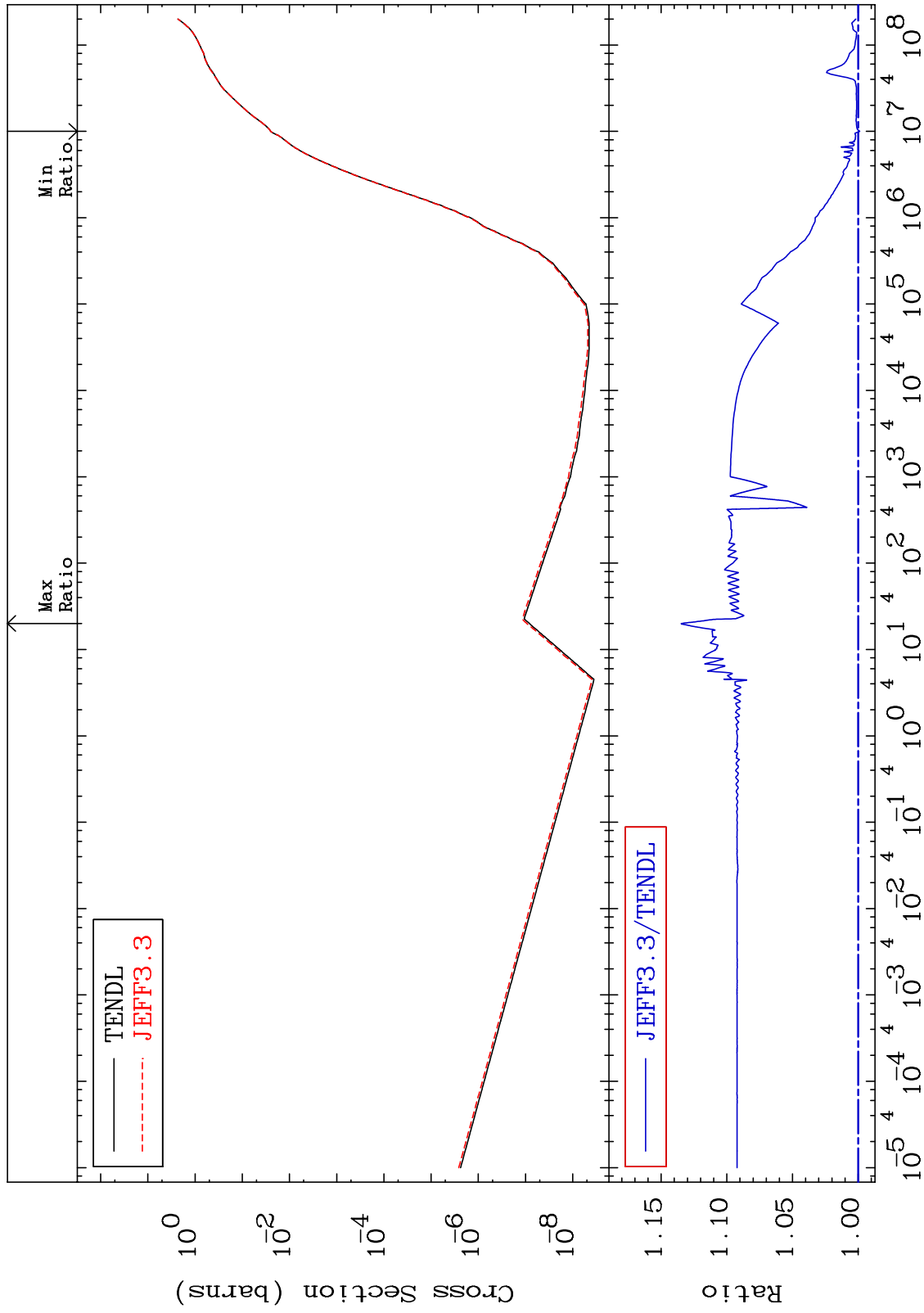
MAT 4319 (n,d)  $\alpha$  43-Tc-97  
 Cross Section -18.68 To 4054. %



MAT 4319

Hydrogen Production  
Cross Section

43-Tc-97  
-0.120 To 13.47 %

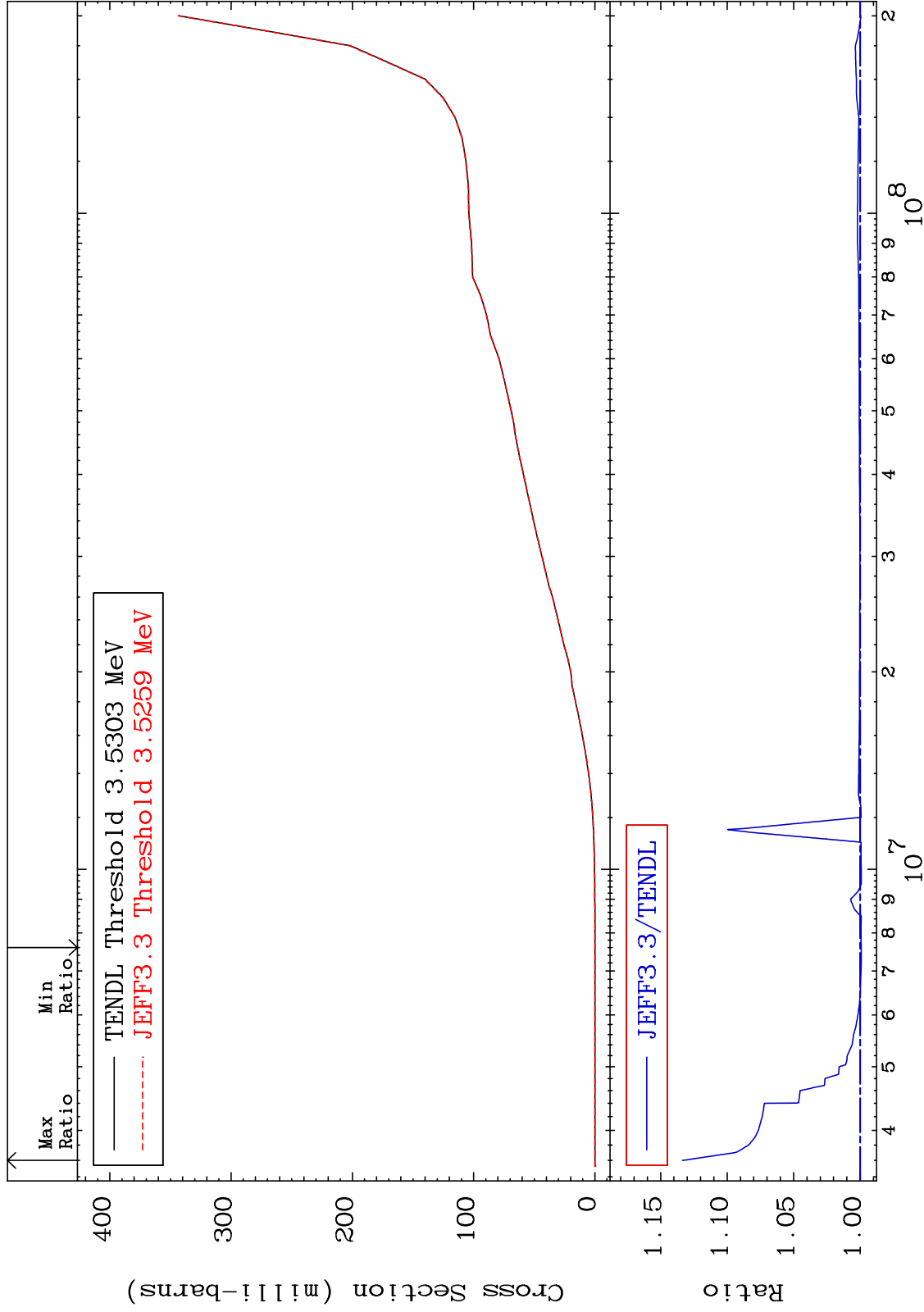




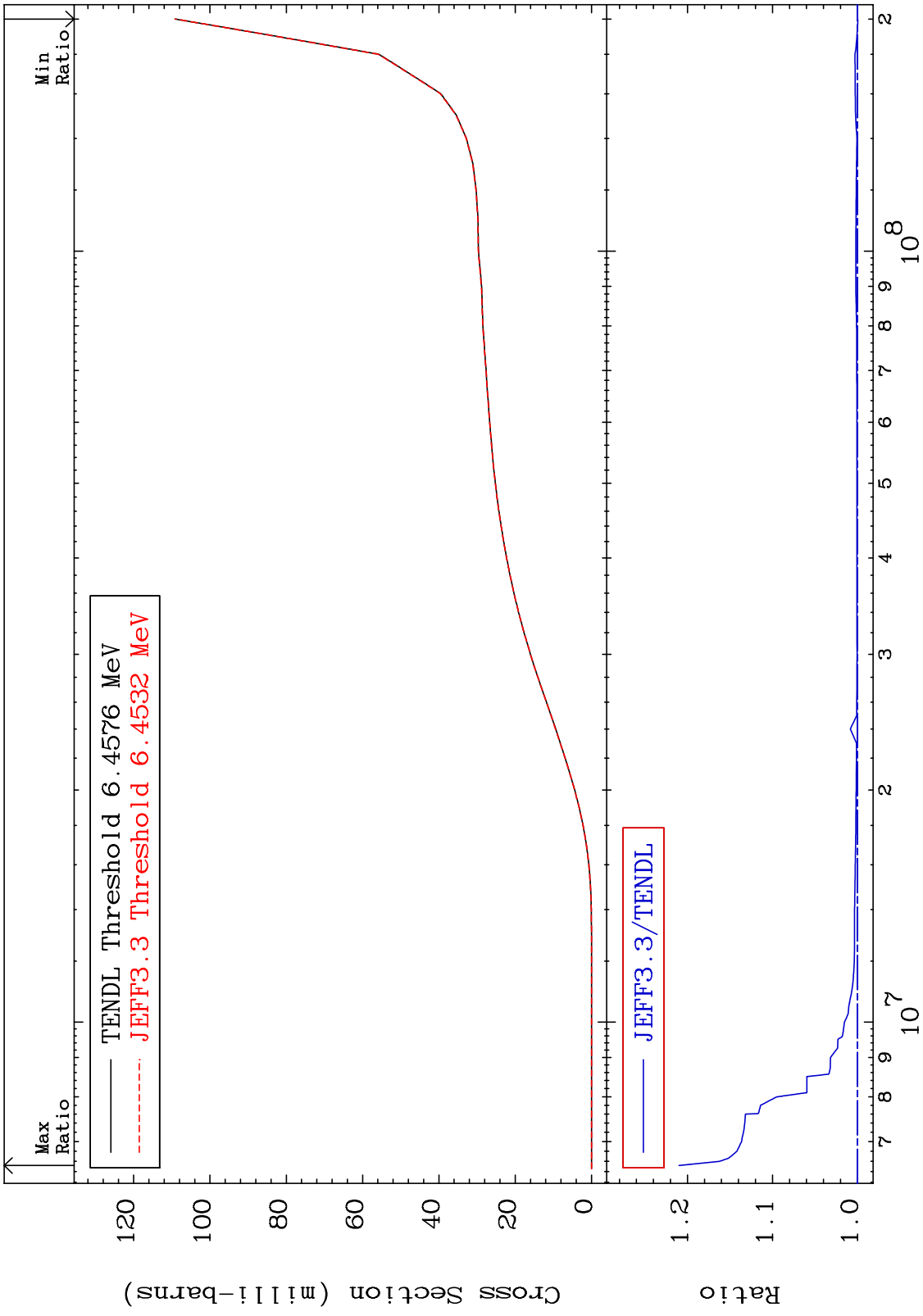
MAT 4319

Deuterium Production  
Cross Section

<sup>43</sup>Tc-97  
-0.084 To 13.36 %

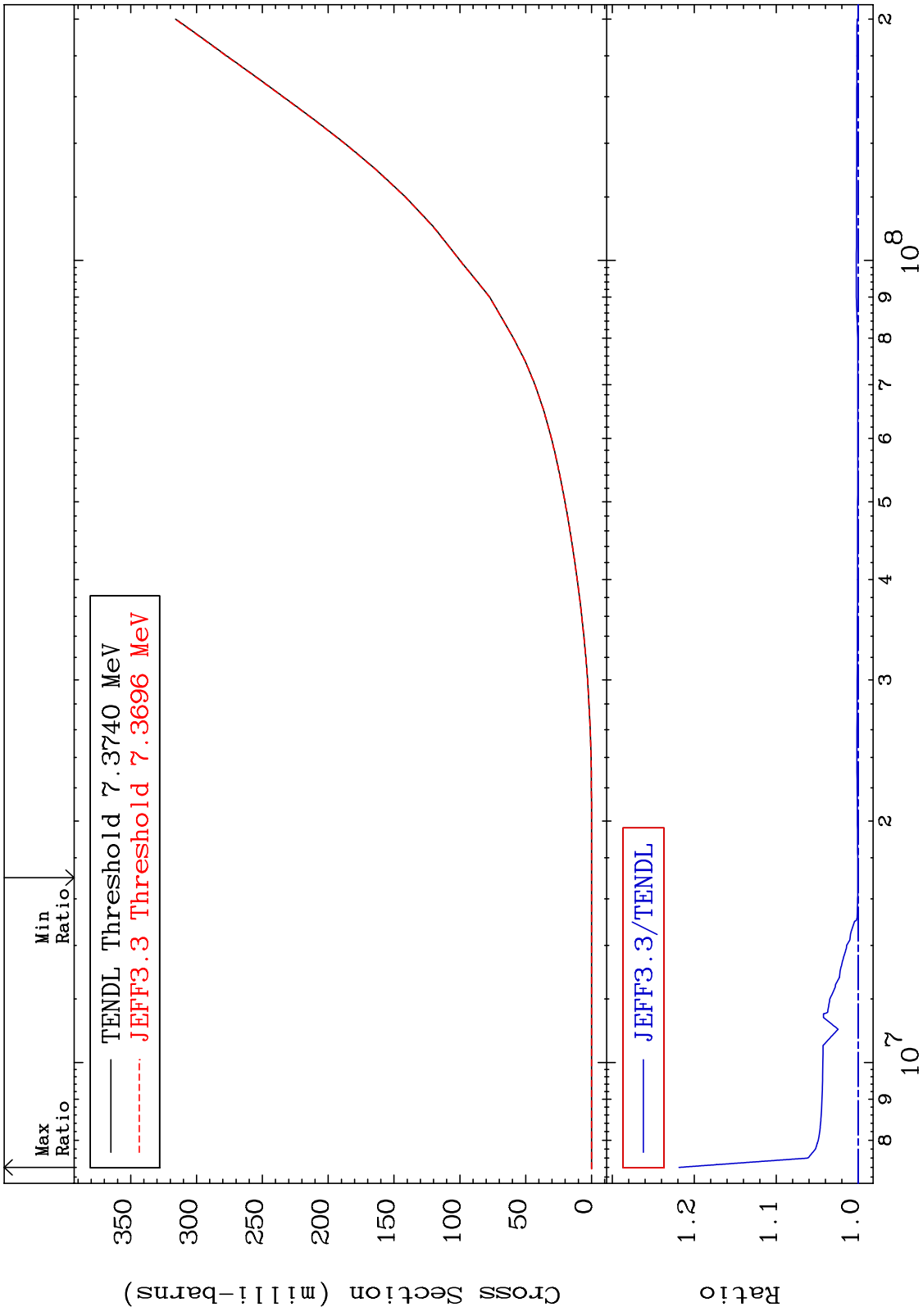


MAT 4319 Tritium Production Cross Section 43-Tc-97 -0.041 To 20.99 %



65 43-Tc-97

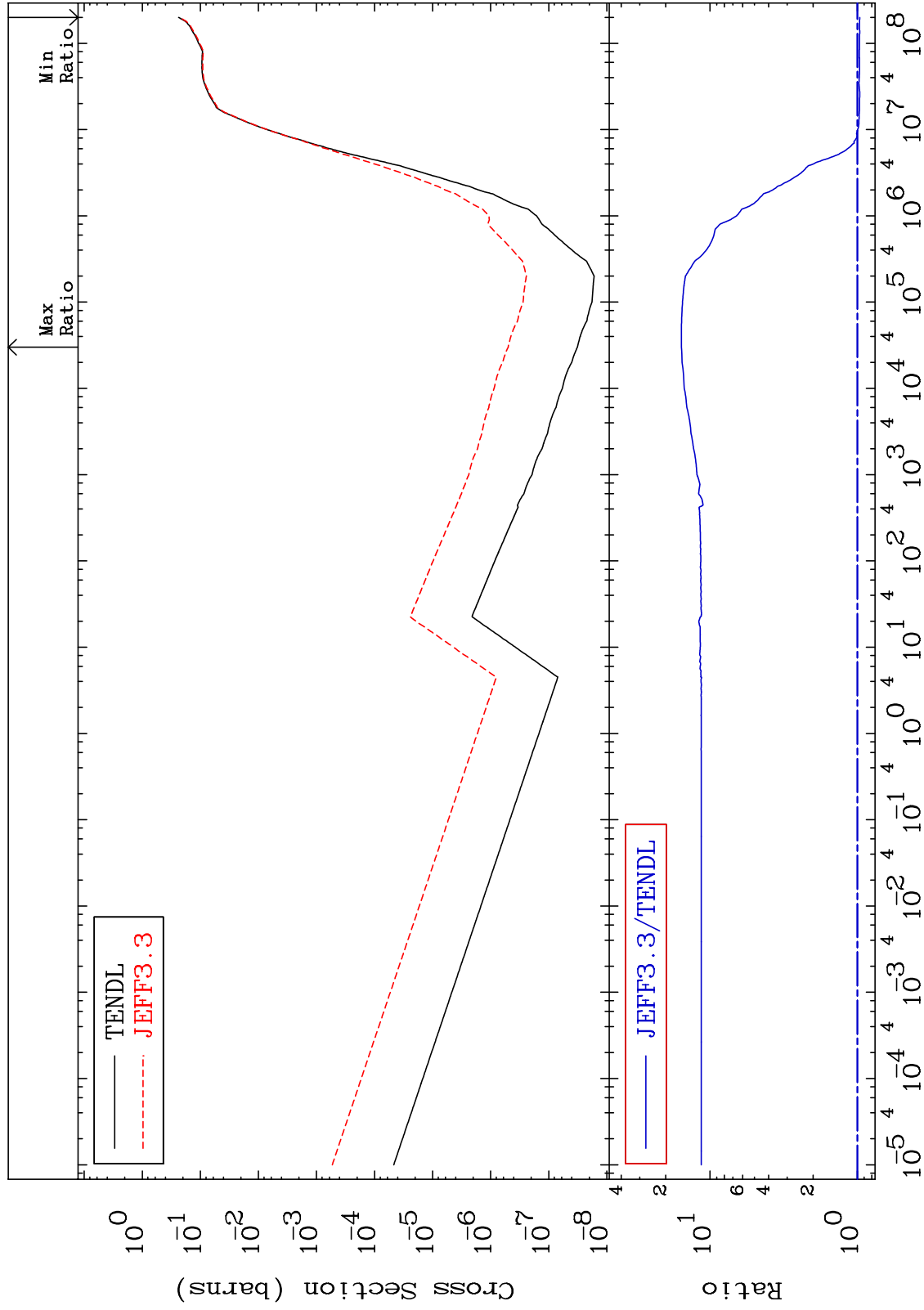
MAT 4319 He-3 Production Cross Section 43-Tc-97 To 21.86 %



MAT 4319

He-4 Production  
Cross Section

43-Tc-97  
-3.725 To 1462. %

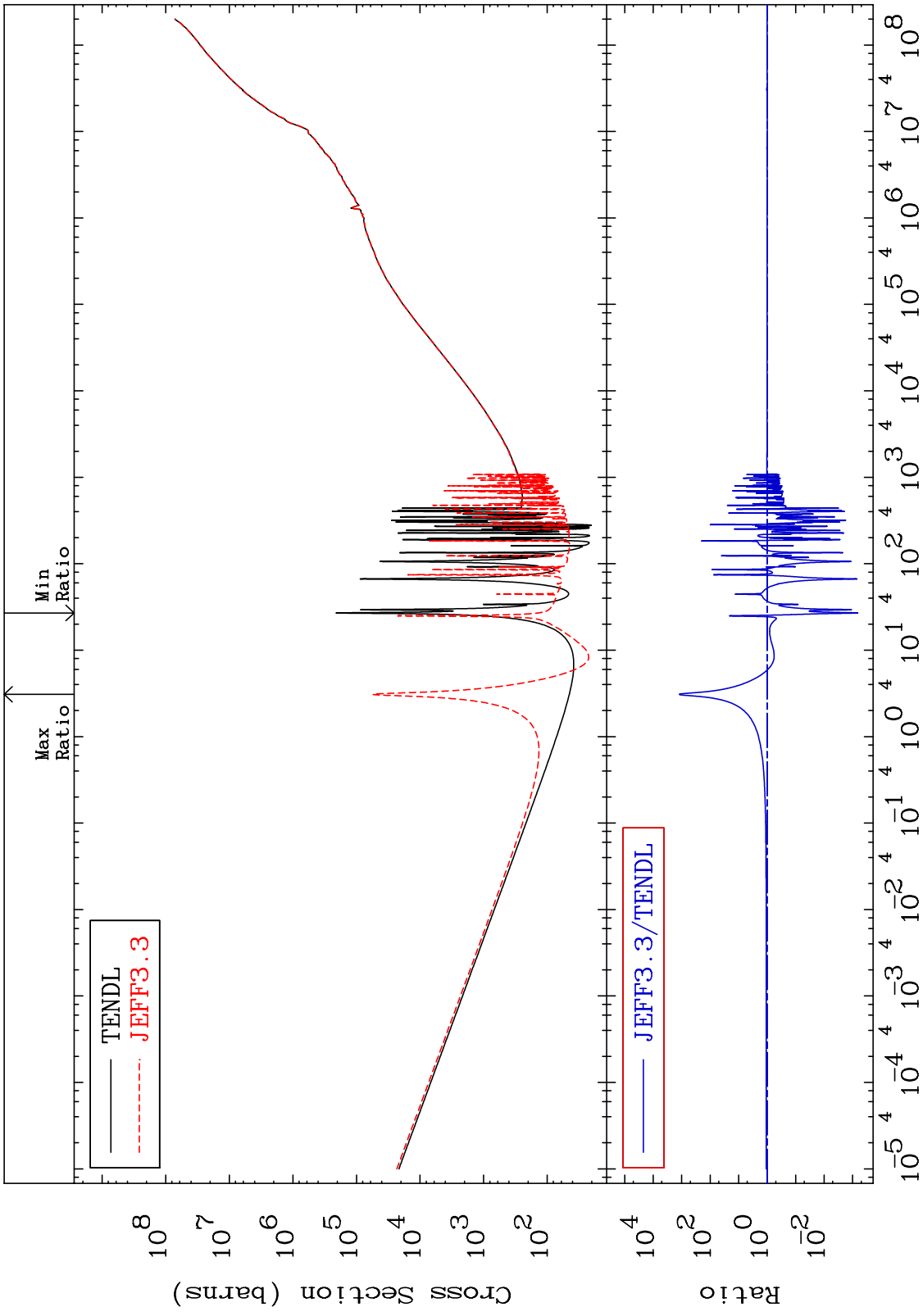


67

Incident Energy (eV)

43-Tc-97

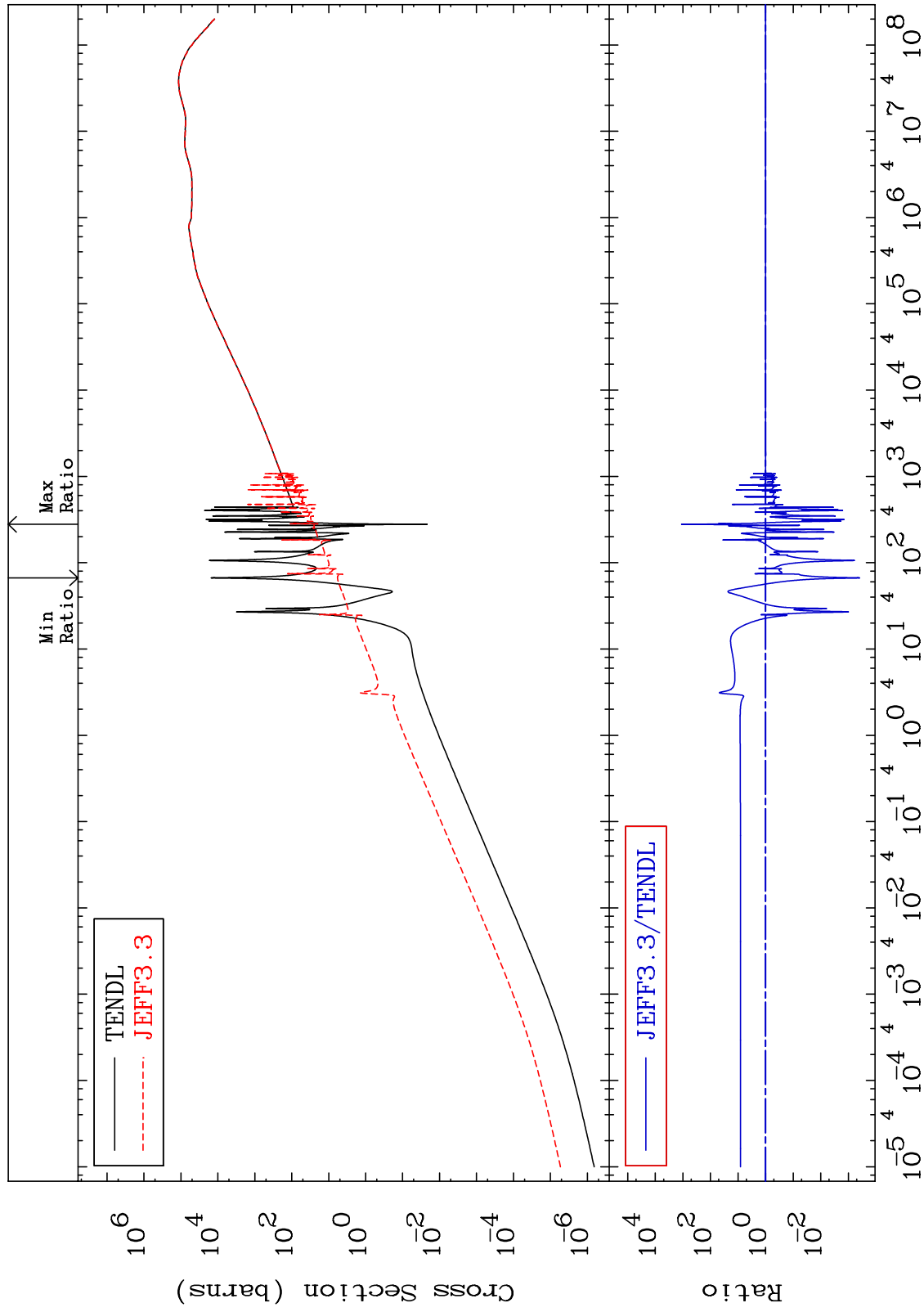
MAT 4319      Kerma total (eV-barns)      43-Tc-97  
 -99.93 To 9999. %  
 Cross Section



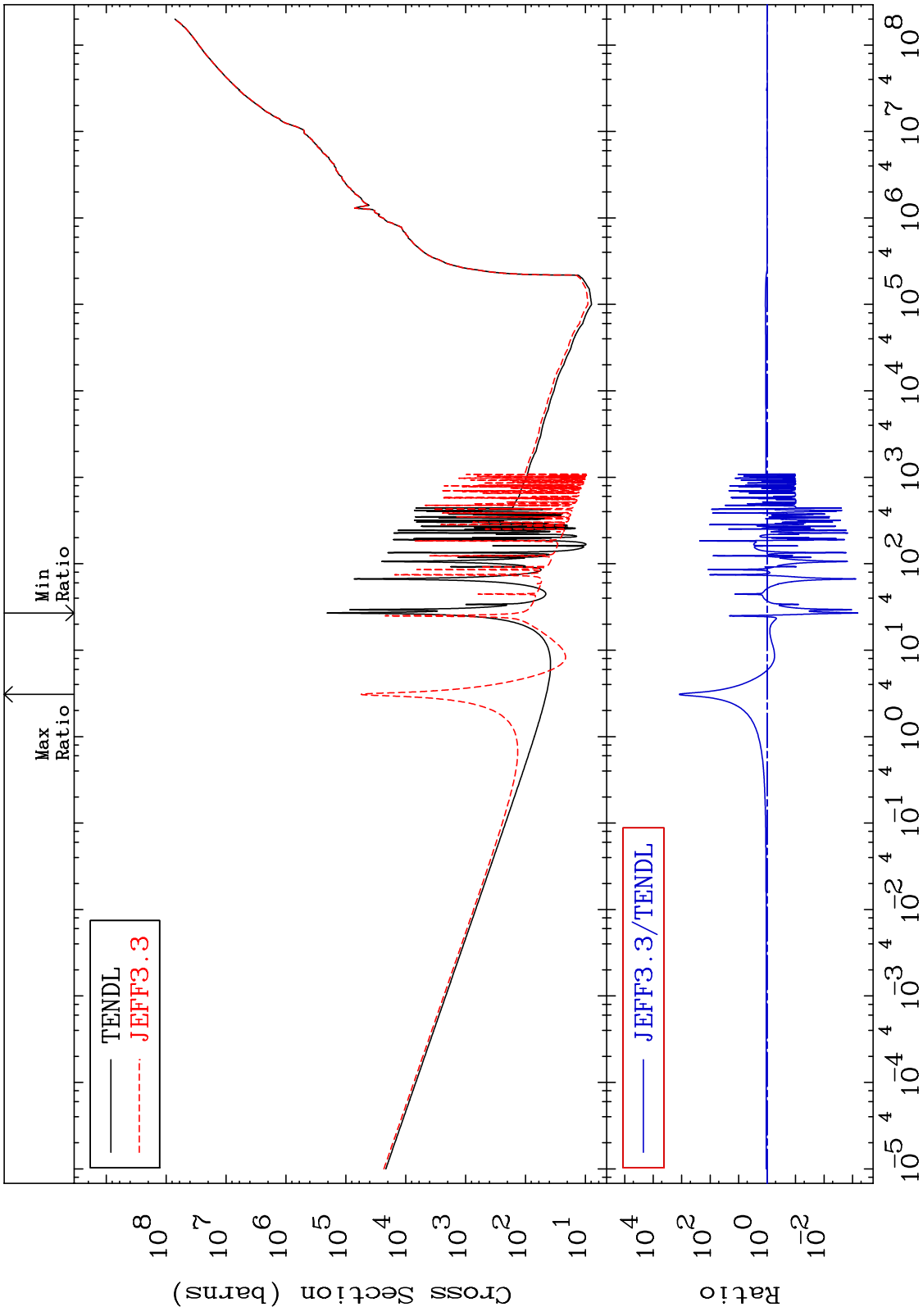
MAT 4319

Kerma elastic  
Cross Section

43-Tc-97  
-99.96 To 9999. %

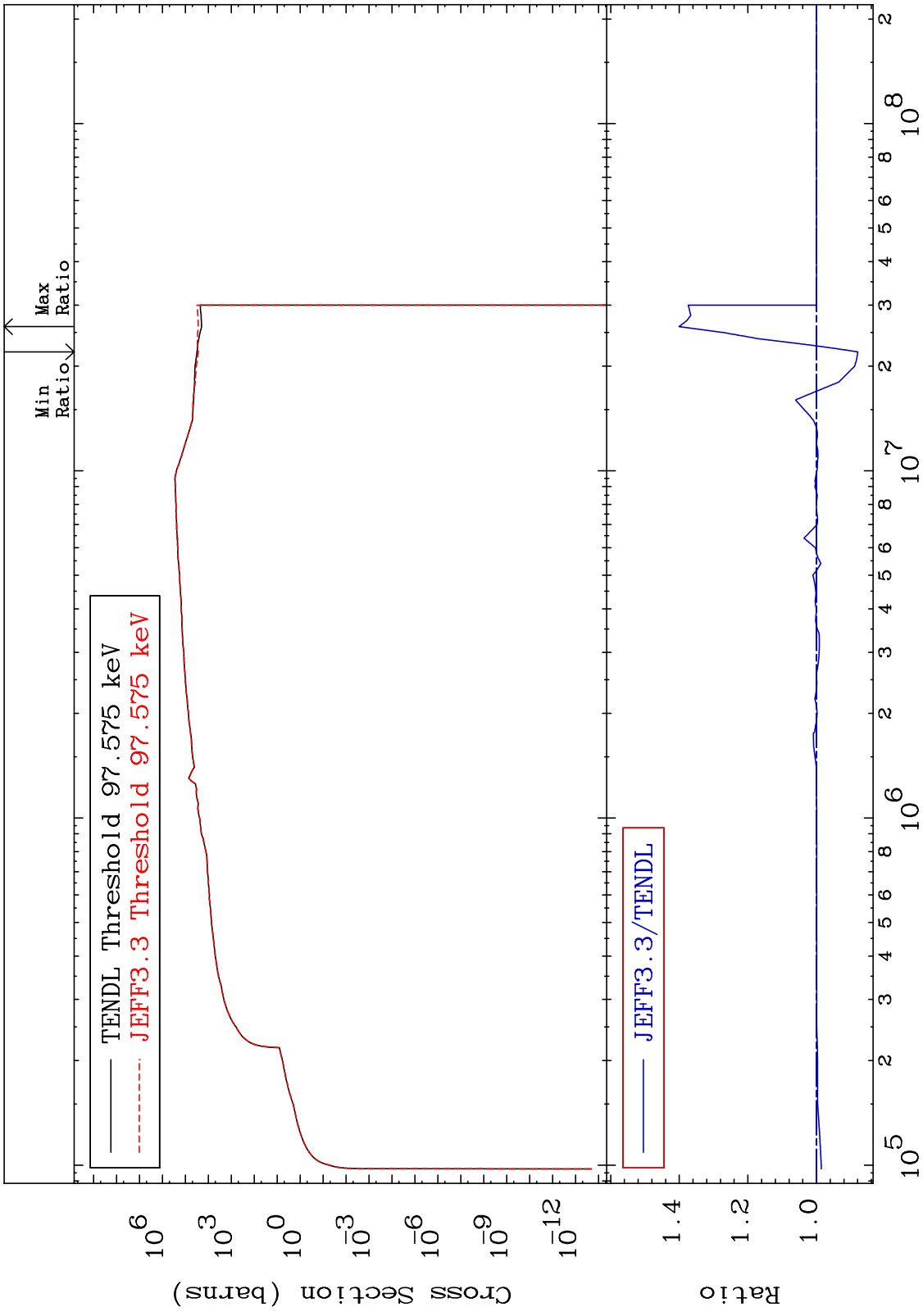


MAT 4319      Kerma non-elastic (all but mt2)      43-Tc-97  
 -99.93 To 9999. %  
 Cross Section



70      Incident Energy (eV)      43-Tc-97

MAT 4319 Kerma inelastic (mt51-91) 43-Tc-97  
 Cross Section -12.05 To 40.07 %



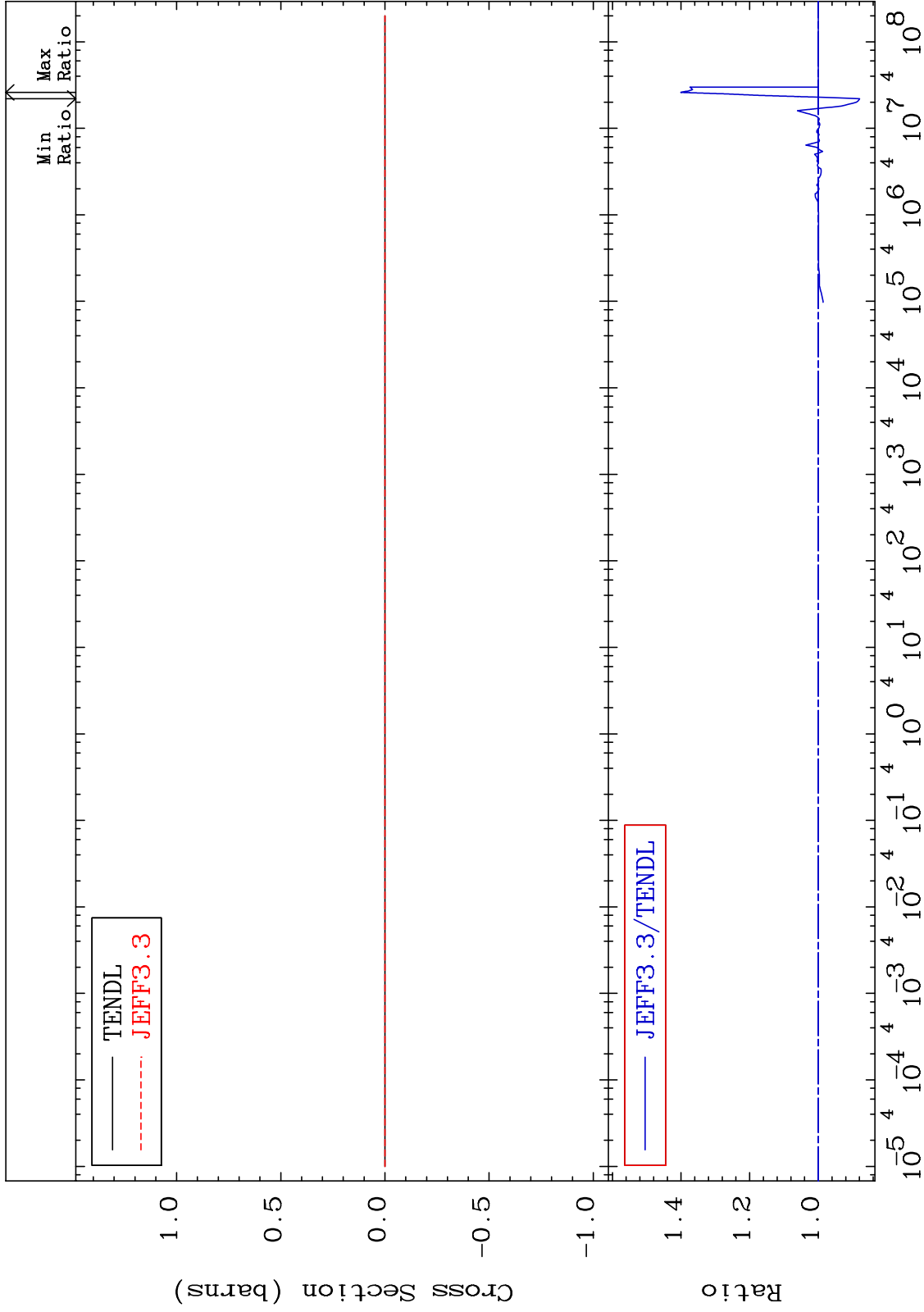
71 Incident Energy (eV) 43-Tc-97



MAT 4319

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

43-Tc-97  
-12.05 To 40.07 %



72

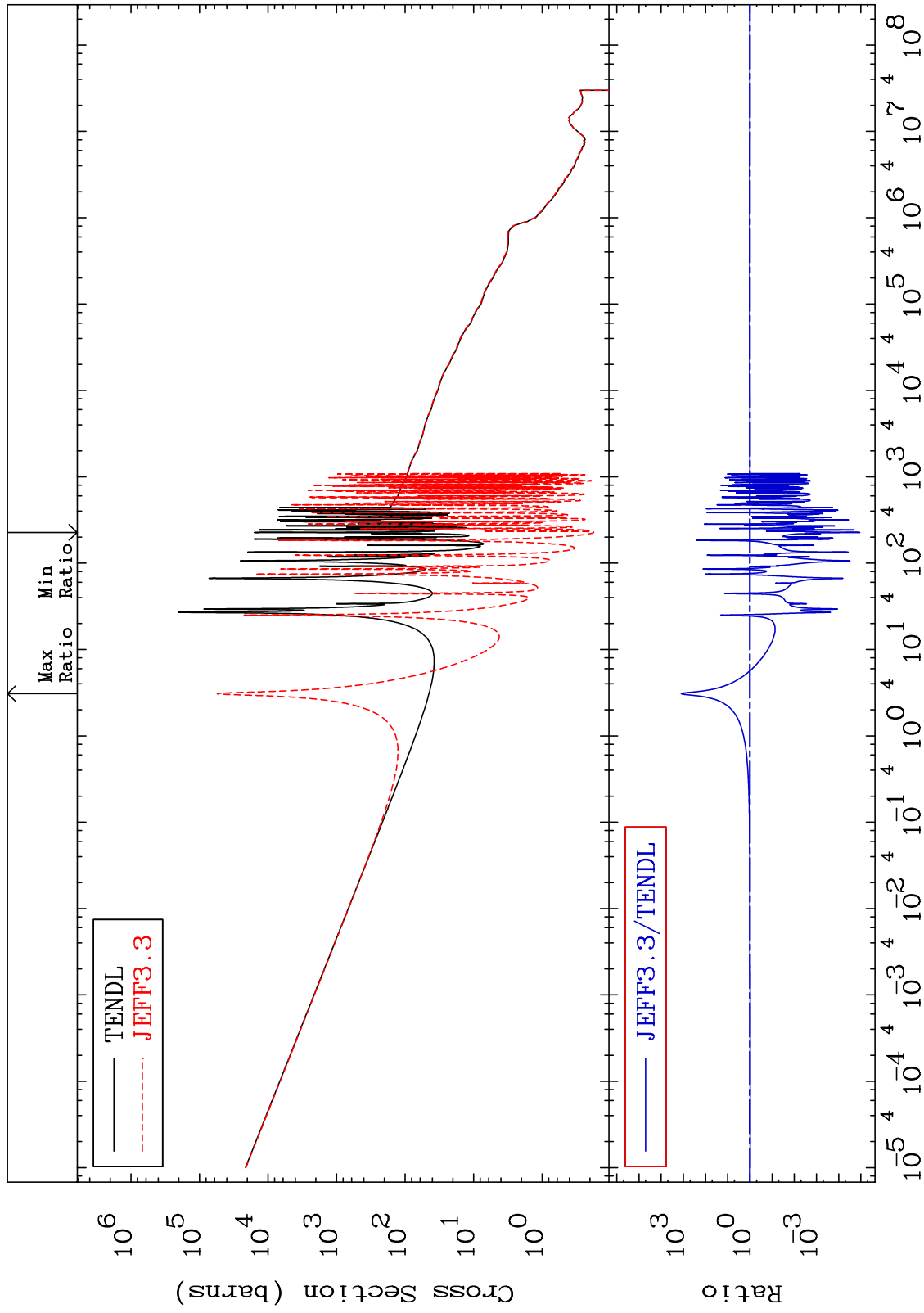
43-Tc-97

MAT 4319

Kerma capture (mt102)

43-Tc-97

-100.0 To 9999. %



73

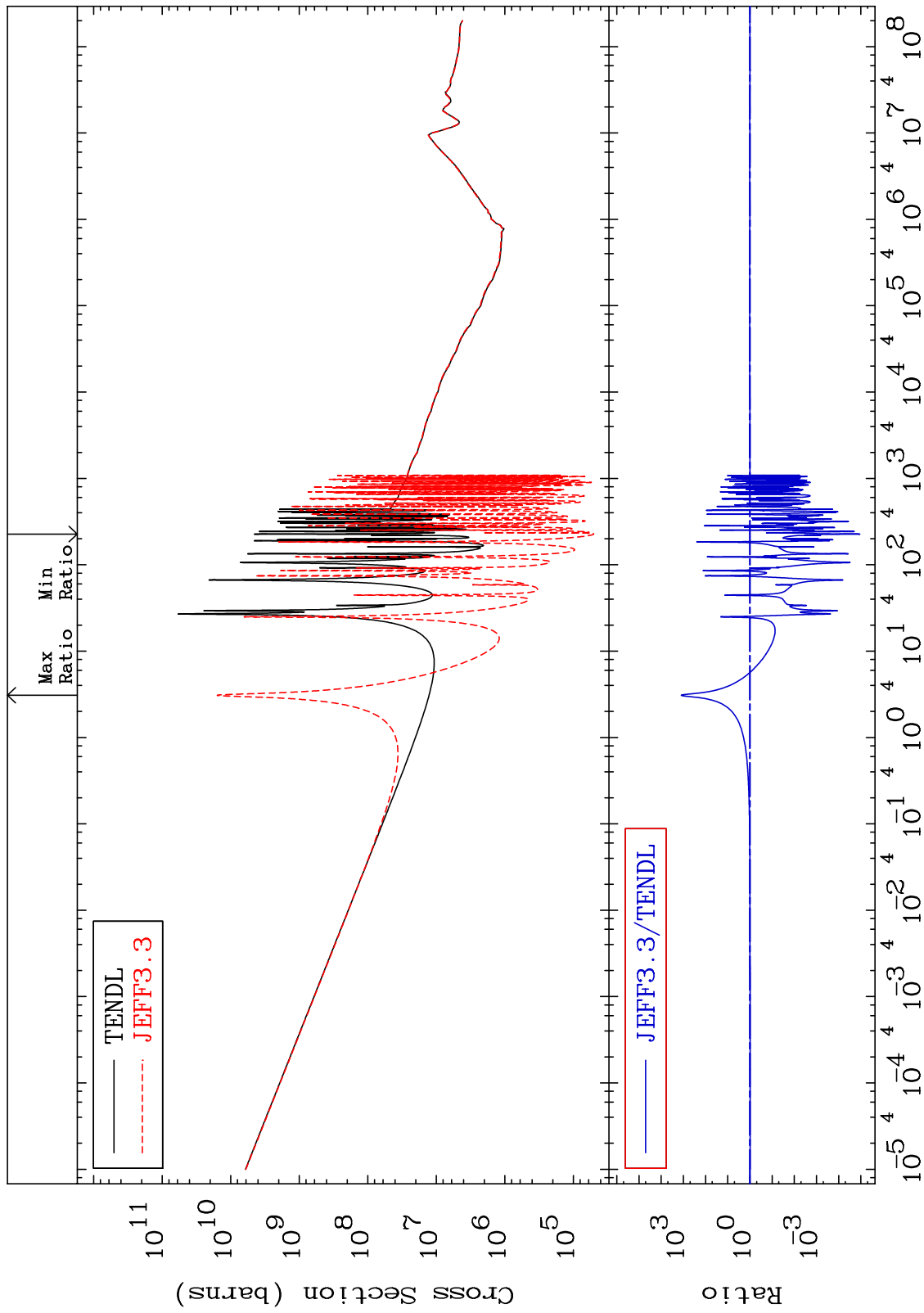
Incident Energy (eV)

43-Tc-97

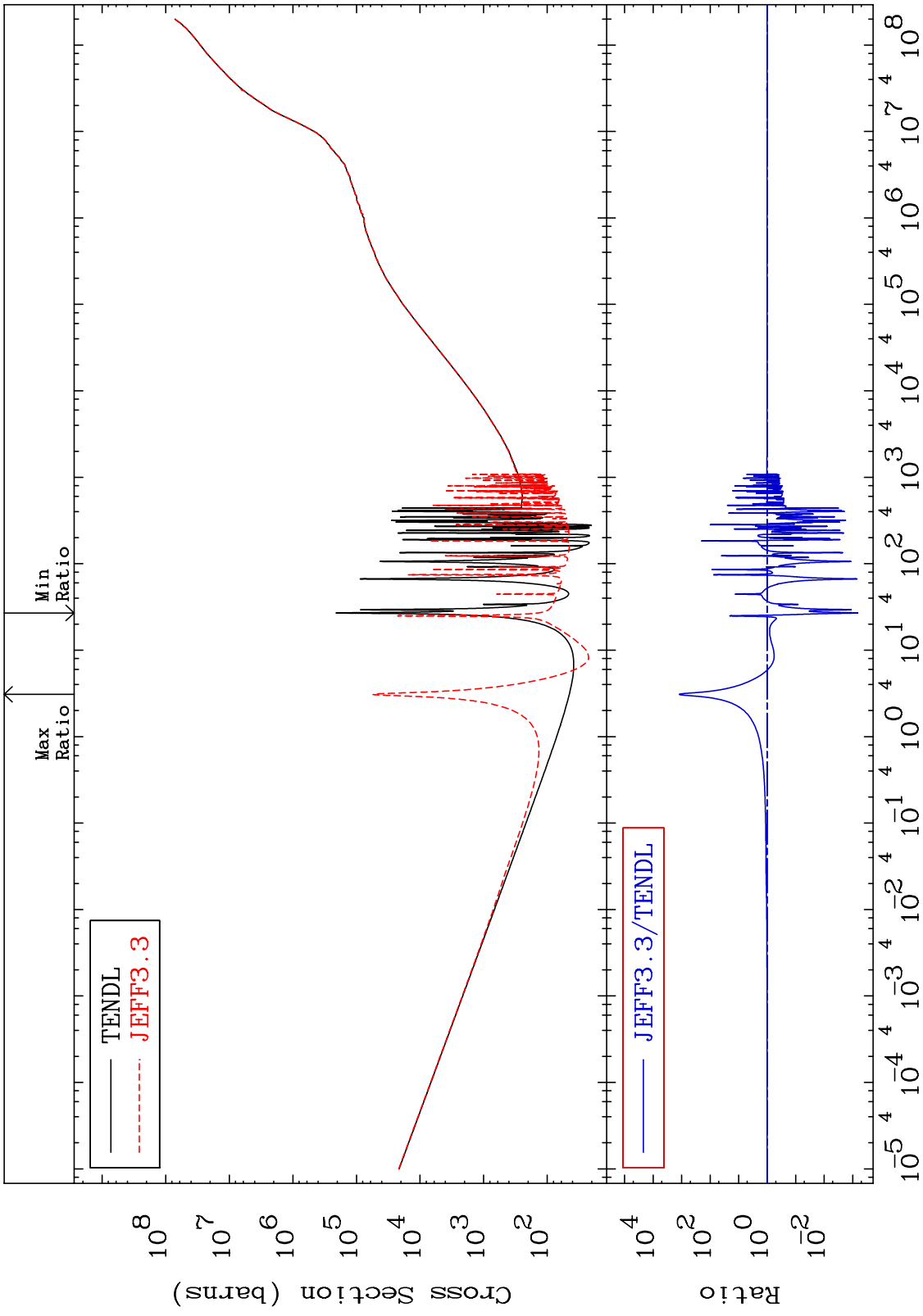
MAT 4319

Total photon (eV-barns)  
Cross Section

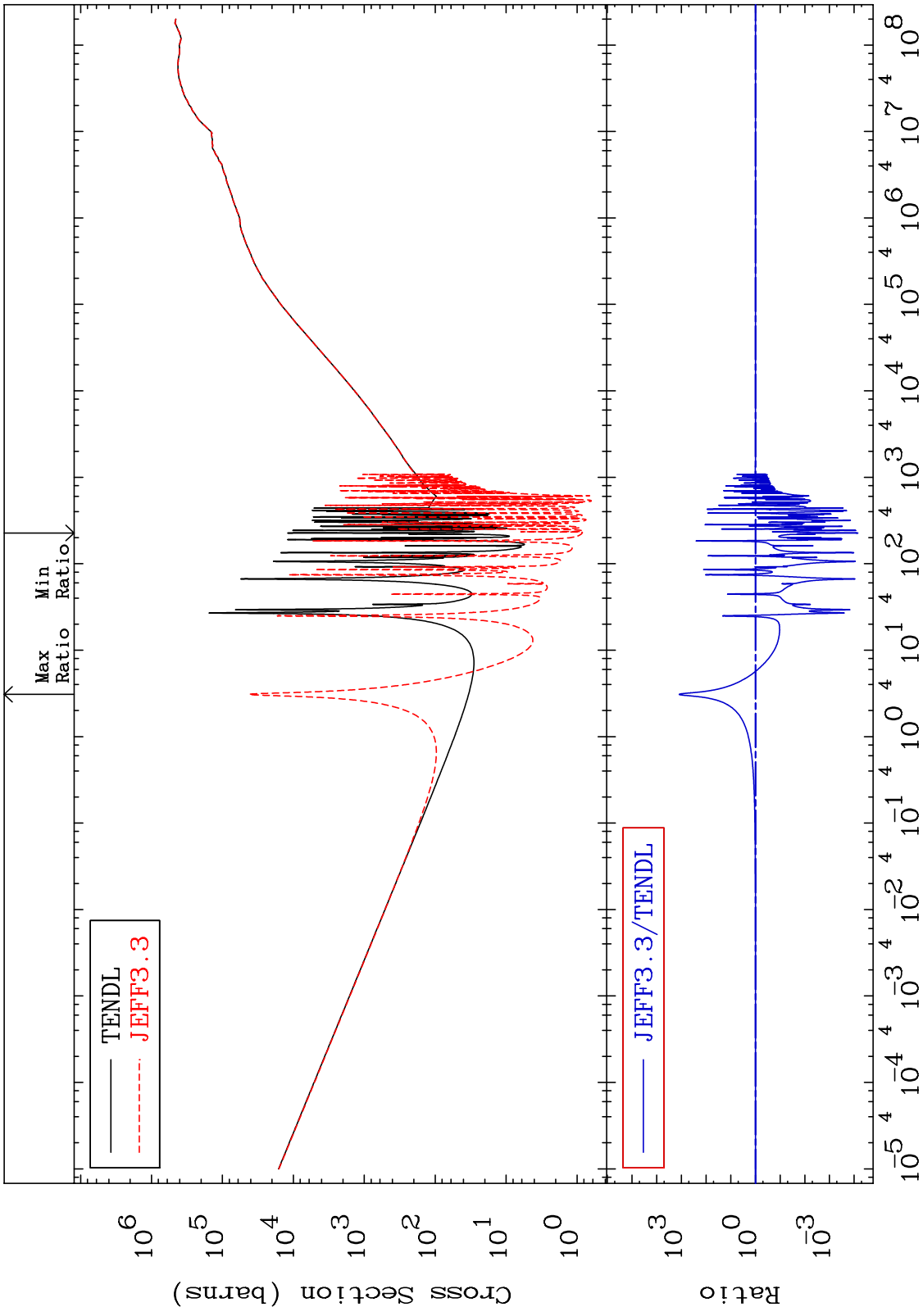
43-Tc-97  
-100.0 To 9999. %



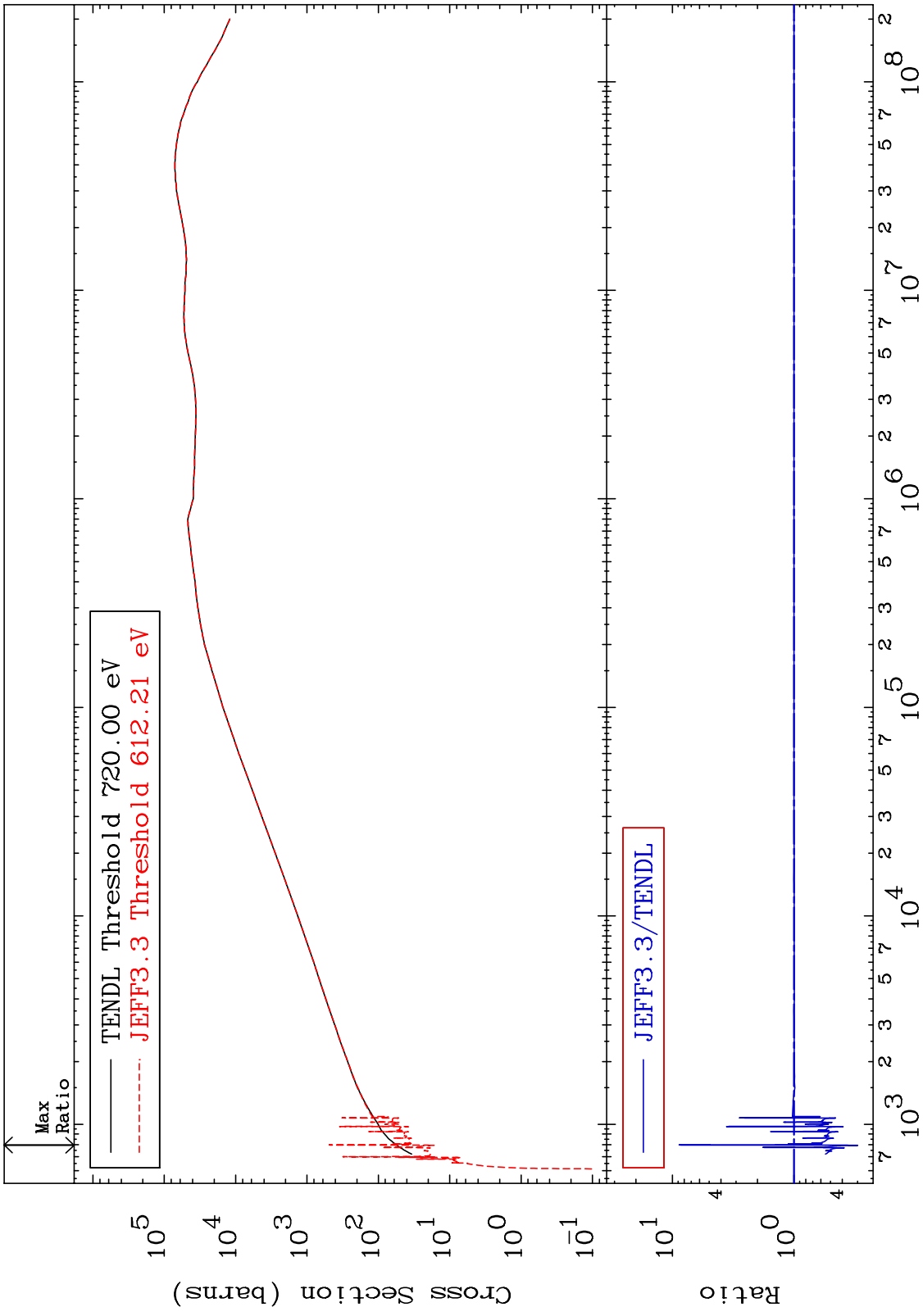
MAT 4319 Total kinematic kerma (high limit) 43-Tc-97  
 Cross Section -99.93 To 9999. %



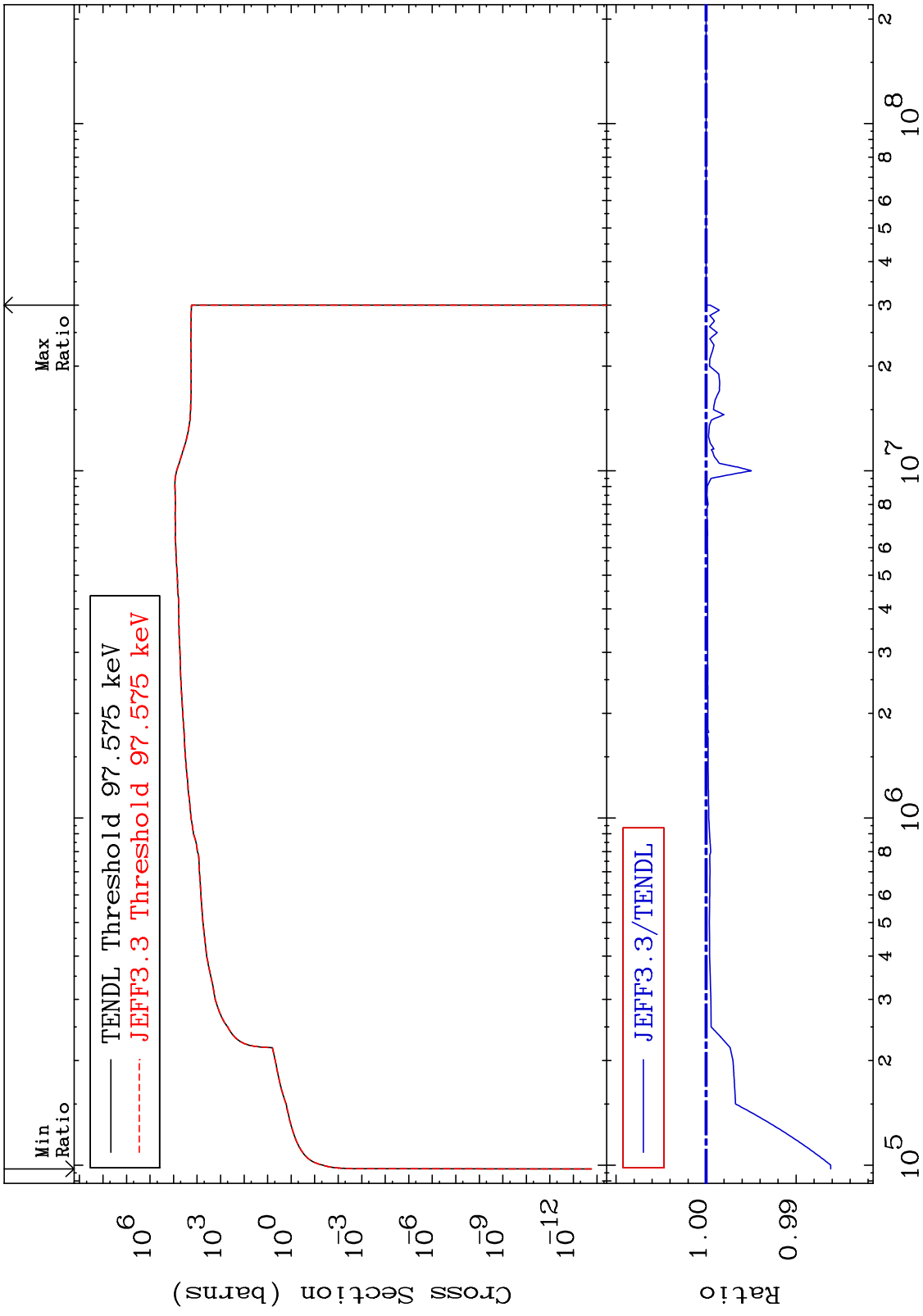
MAT 4319      Dpa total (eV-barns)      43-Tc-97  
 -99.99 To 9999. %  
 Cross Section



MAT 4319      Dpa elastic (mt2)      43-Tc-97  
Cross Section      -70.18 To 783.3 %



MAT 4319      Dpa inelastic (mt51-91)      43-Tc-97  
Cross Section      -1.385 To 0.000 %



78      Incident Energy (eV)      43-Tc-97

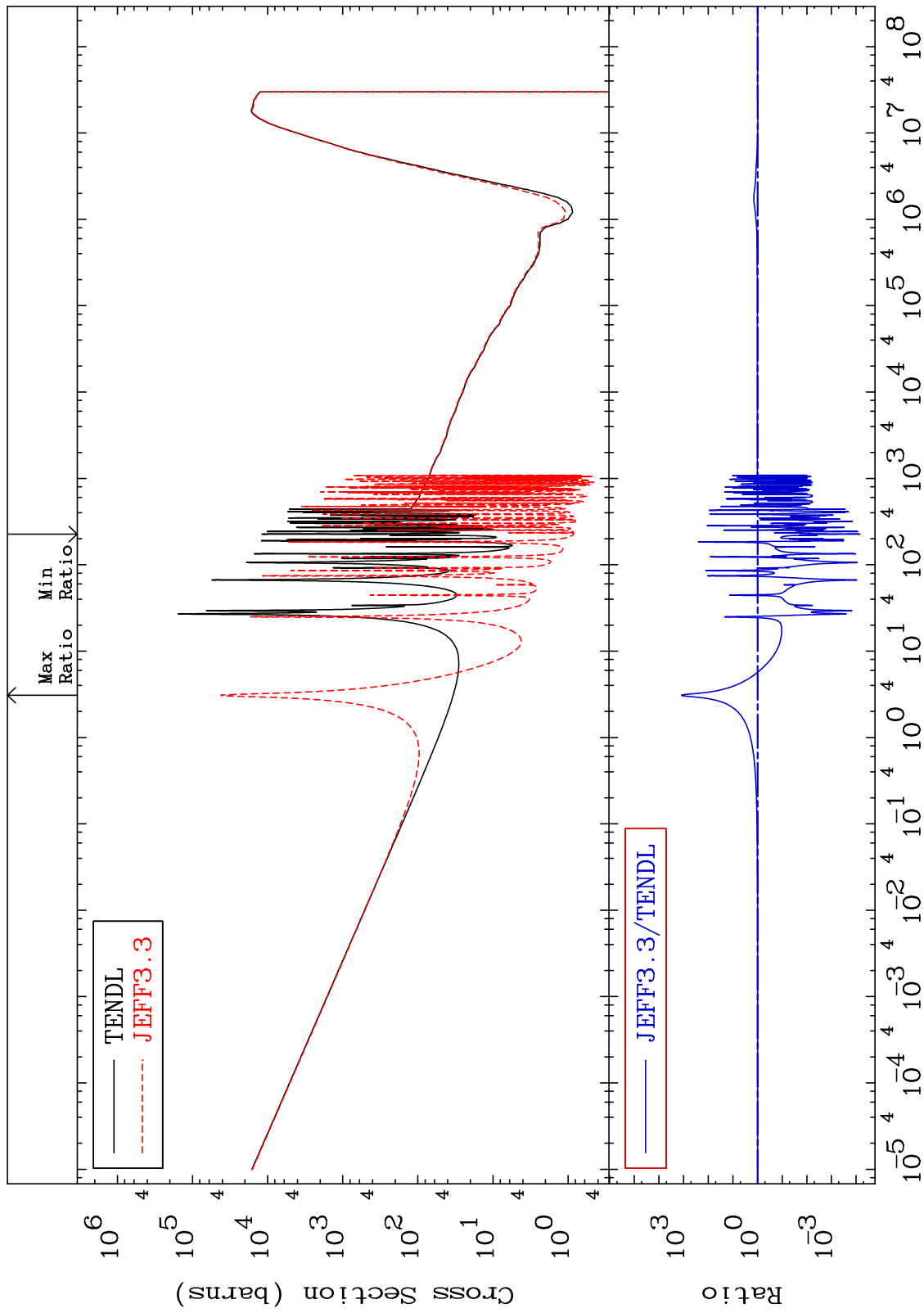
MAT 4319

Dpa disappearance (mt102 -120)

43-Tc-97

-99.99 To 9999. %

Cross Section



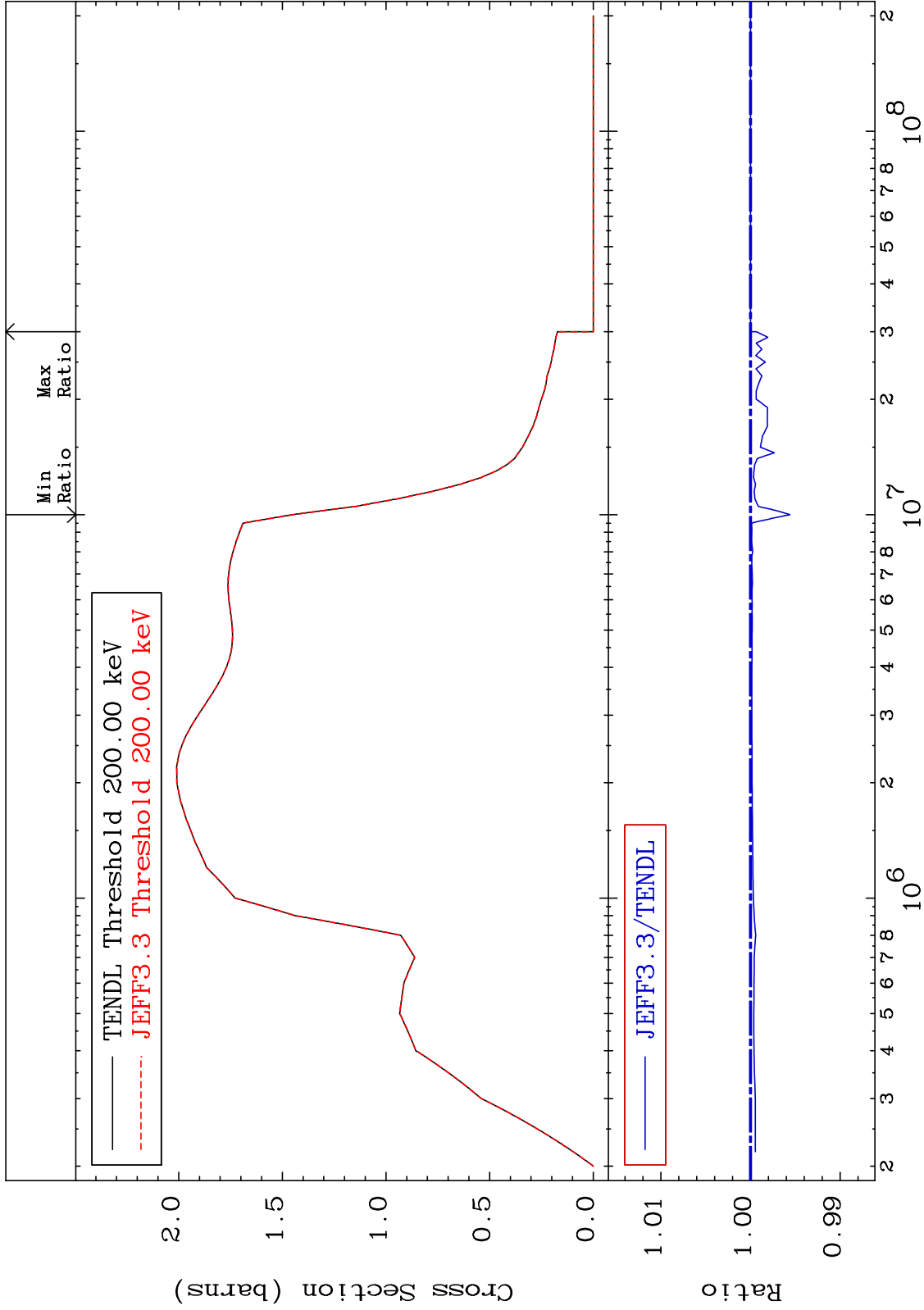


MAT 4319

43-Tc-97

Inelastic: 43-Tc-97g

Radionuclide Production Cross Section -0.439 To 0.000 %



80

Incident Energy (eV)

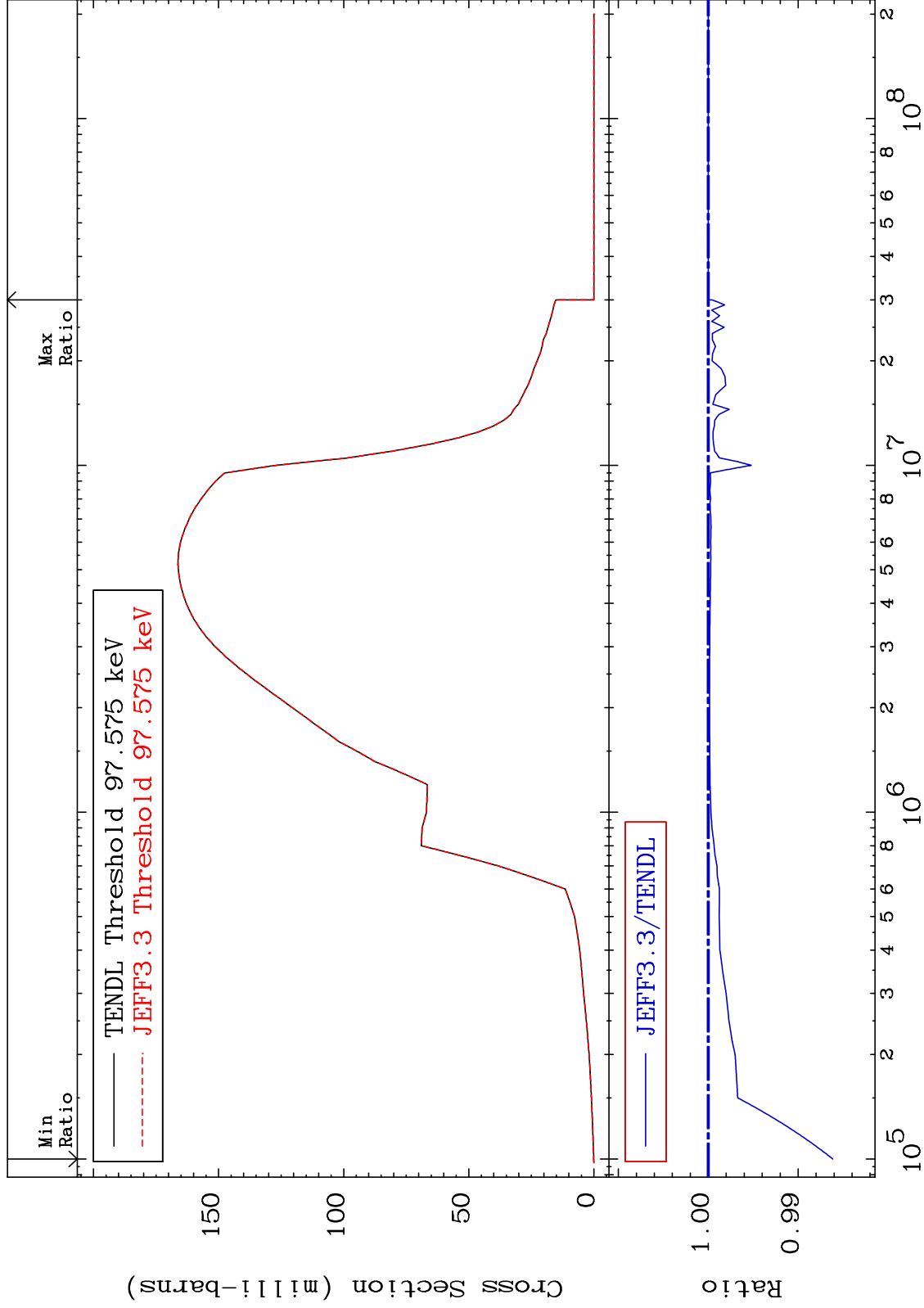
43-Tc-97

MAT 4319

Inelastic:43-Tc-97m1

43-Tc-97

Radionuclide Production Cross Section -1.385 To 0.000 %

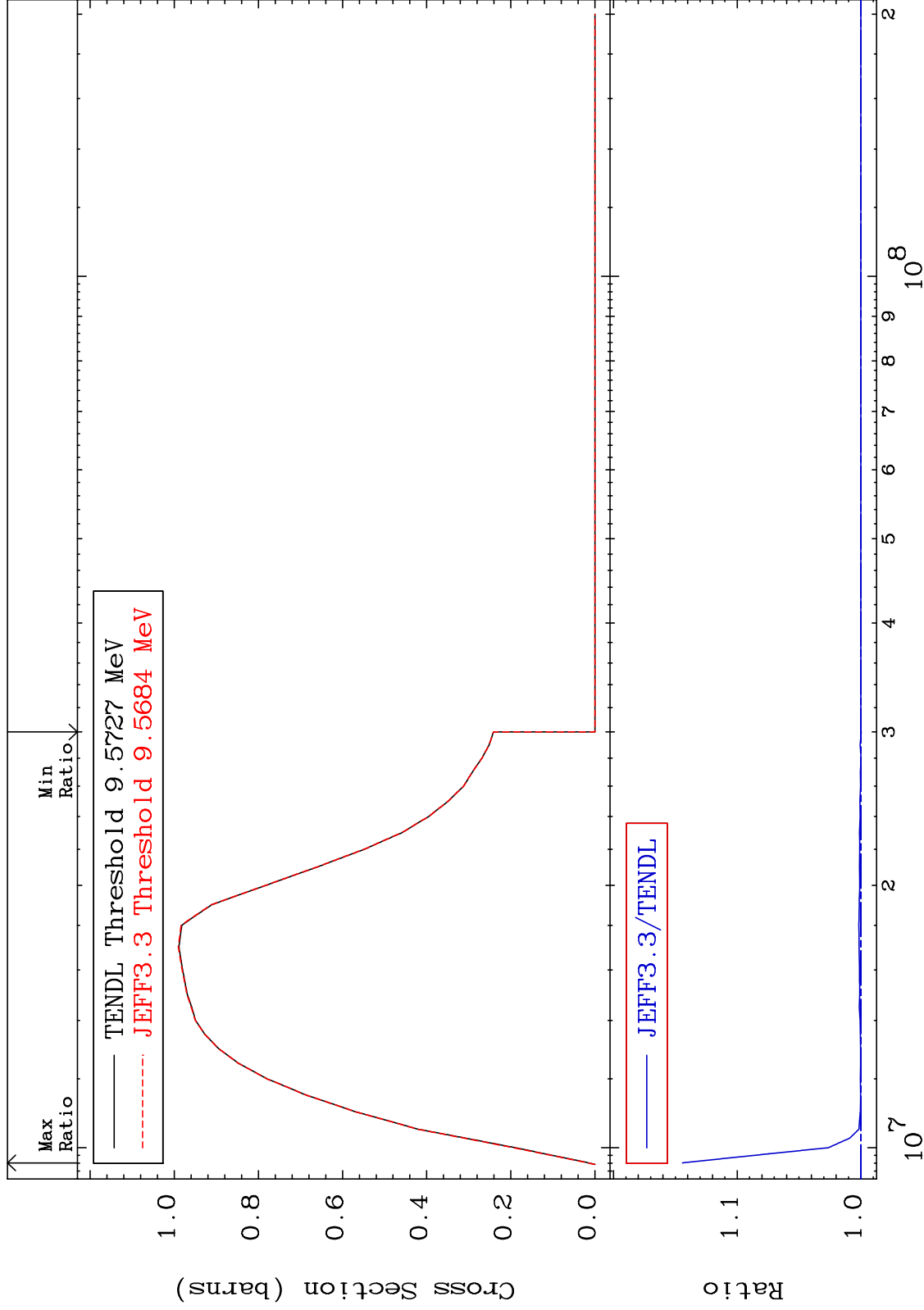


MAT 4319

(n,2n) : 43-Tc-96g

43-Tc-97

Radionuclide Production Cross Section -0.034 To 14.43 %



82

Incident Energy (eV)

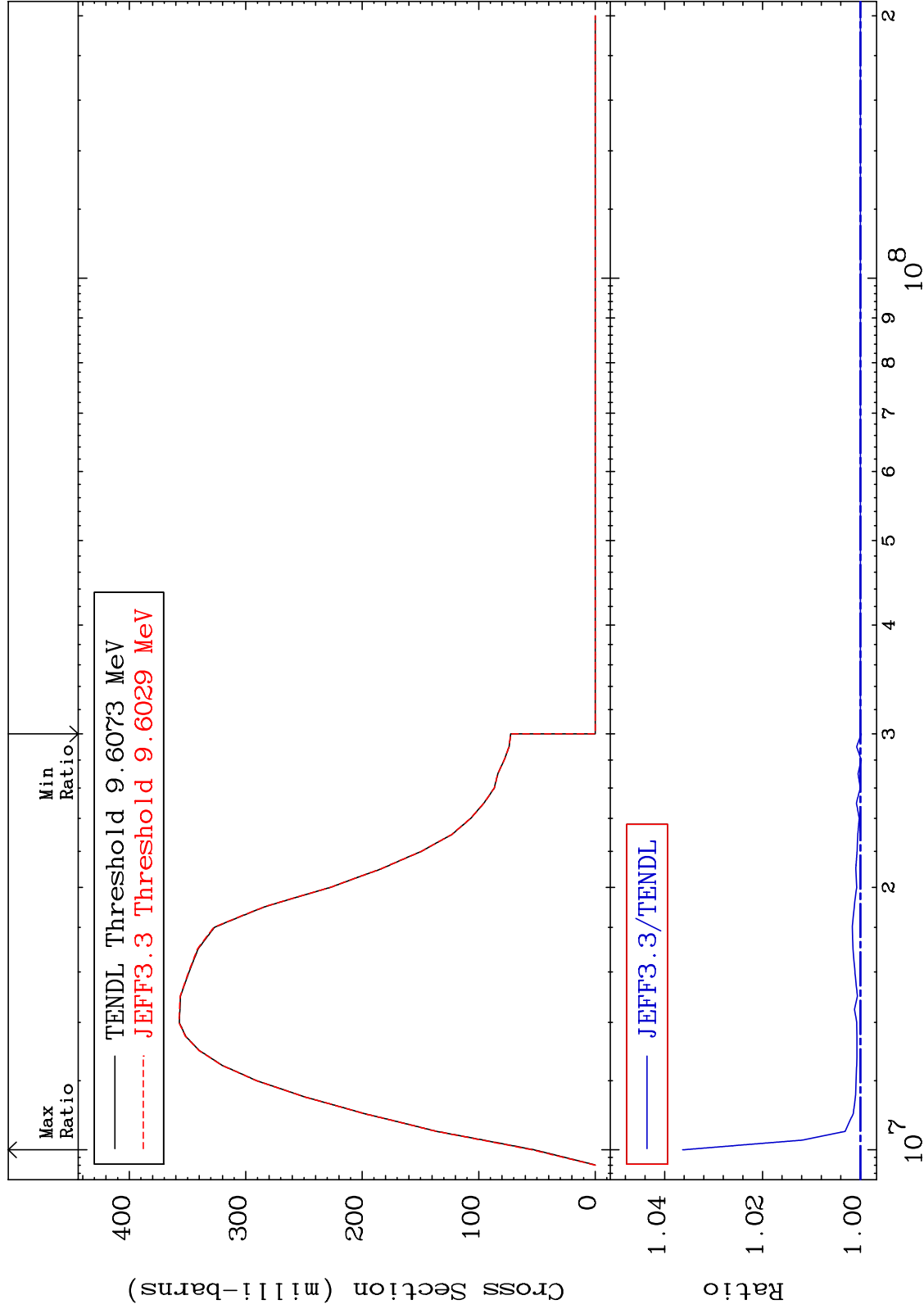
43-Tc-97

MAT 4319

(n,2n):43-Tc-96m1

43-Tc-97

Radionuclide Production Cross Section -0.018 To 3.631 %



83

Incident Energy (eV)

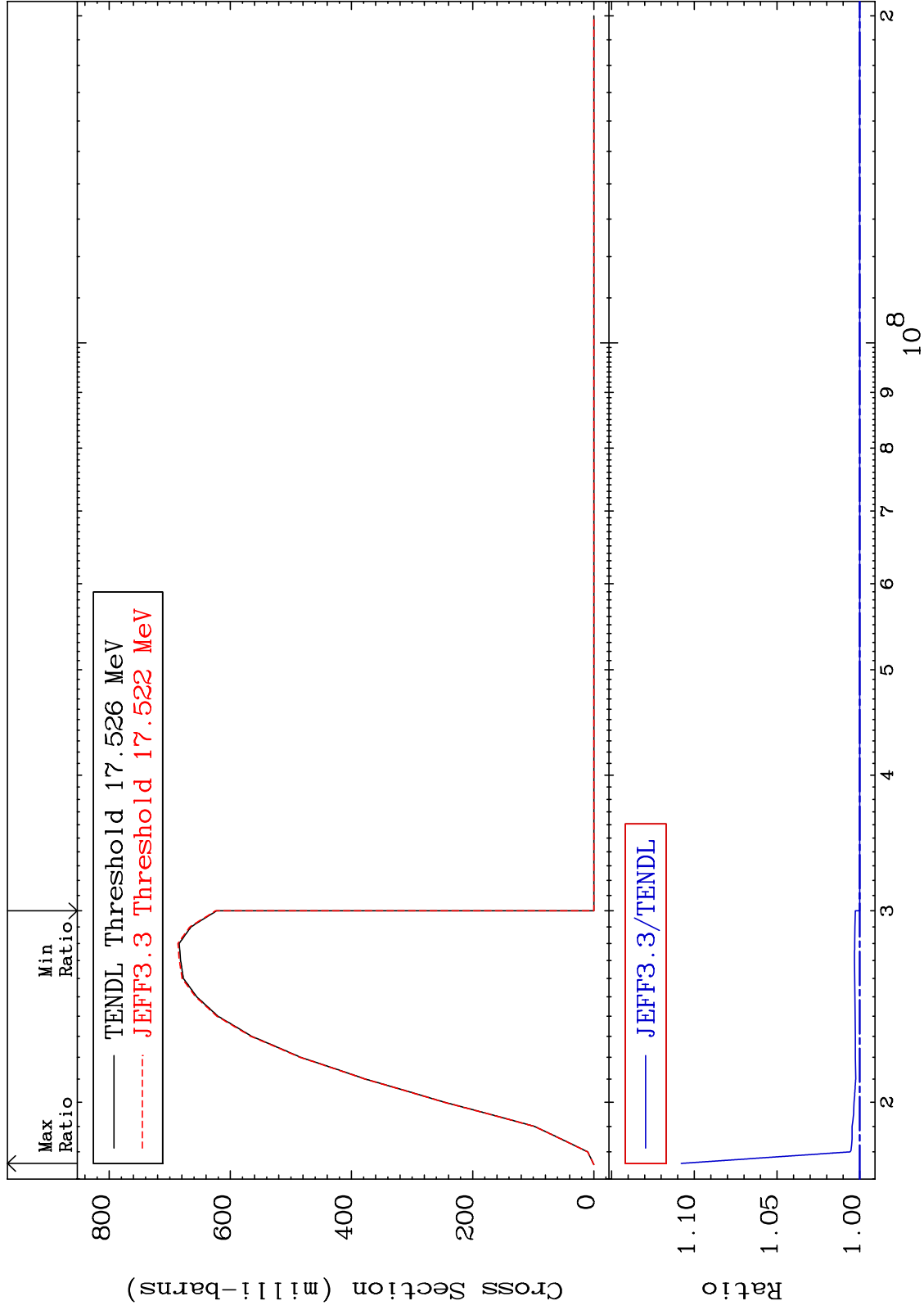
43-Tc-97

MAT 4319

(n,3n) : 43-Tc-95g

43-Tc-97

Radionuclide Production Cross Section 0.000 To 10.79 %

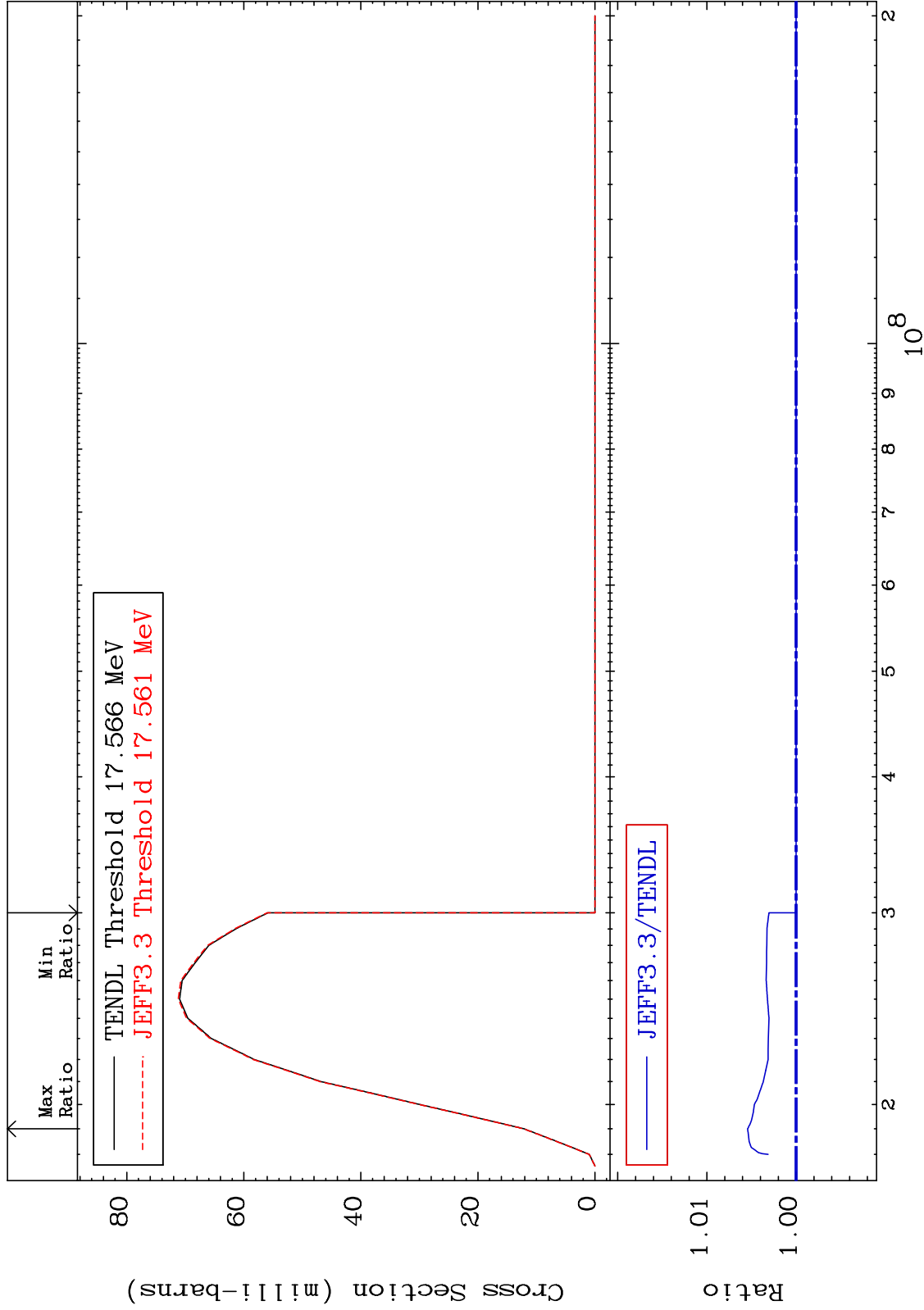


MAT 4319

(n,3n):43-Tc-95m1

43-Tc-97

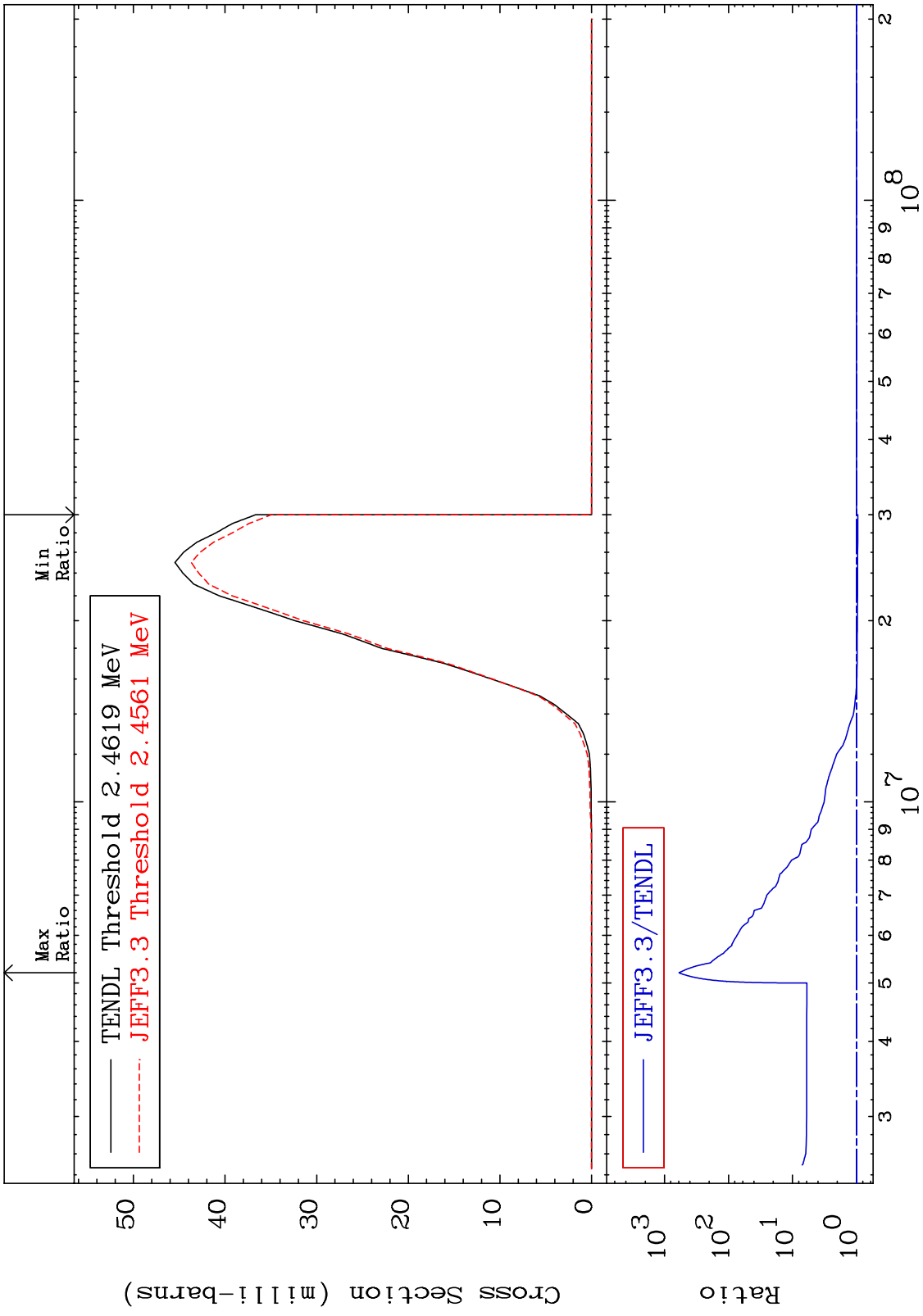
Radionuclide Production Cross Section 0.000 To 0.543 %



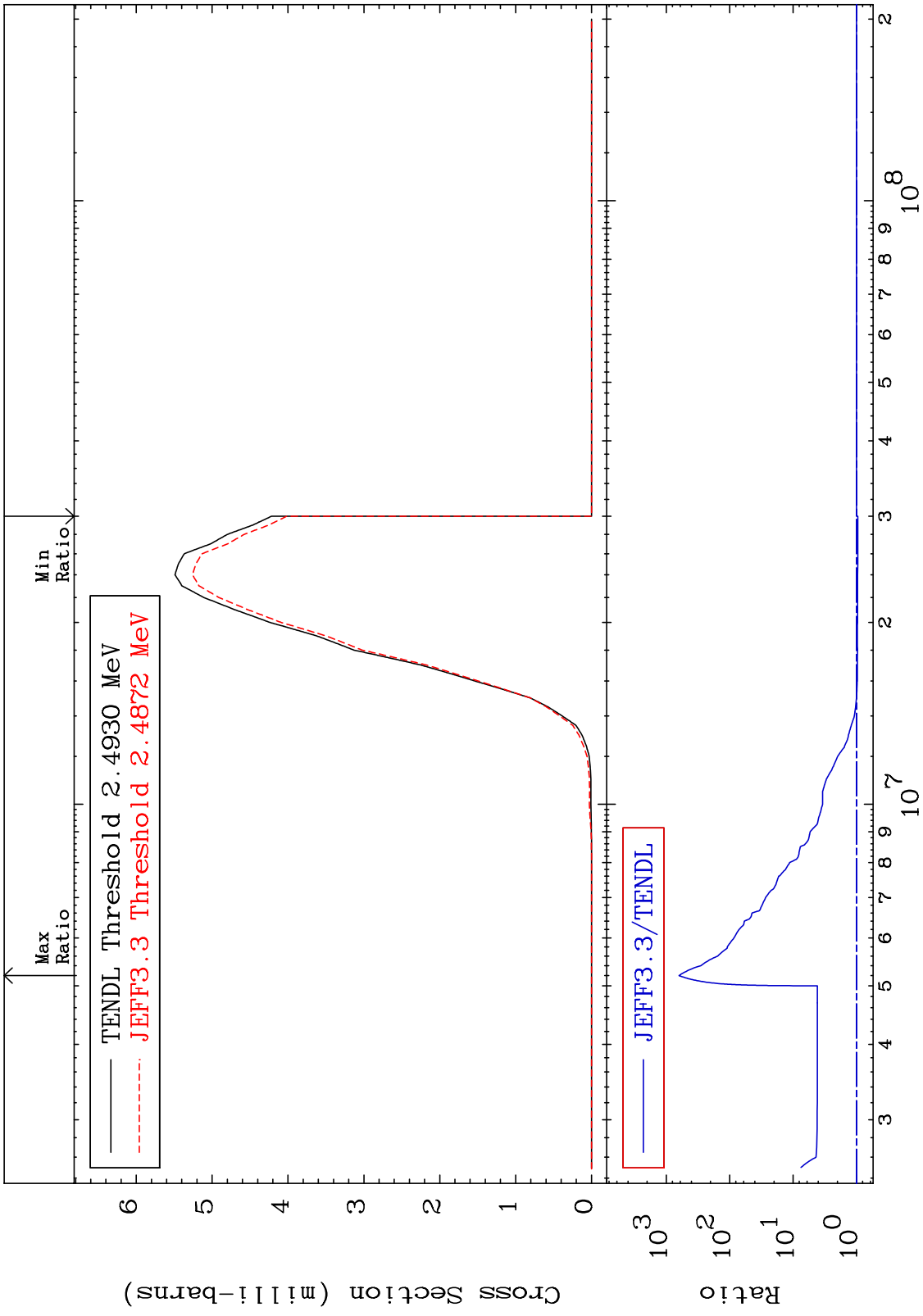
85

Incident Energy (eV)

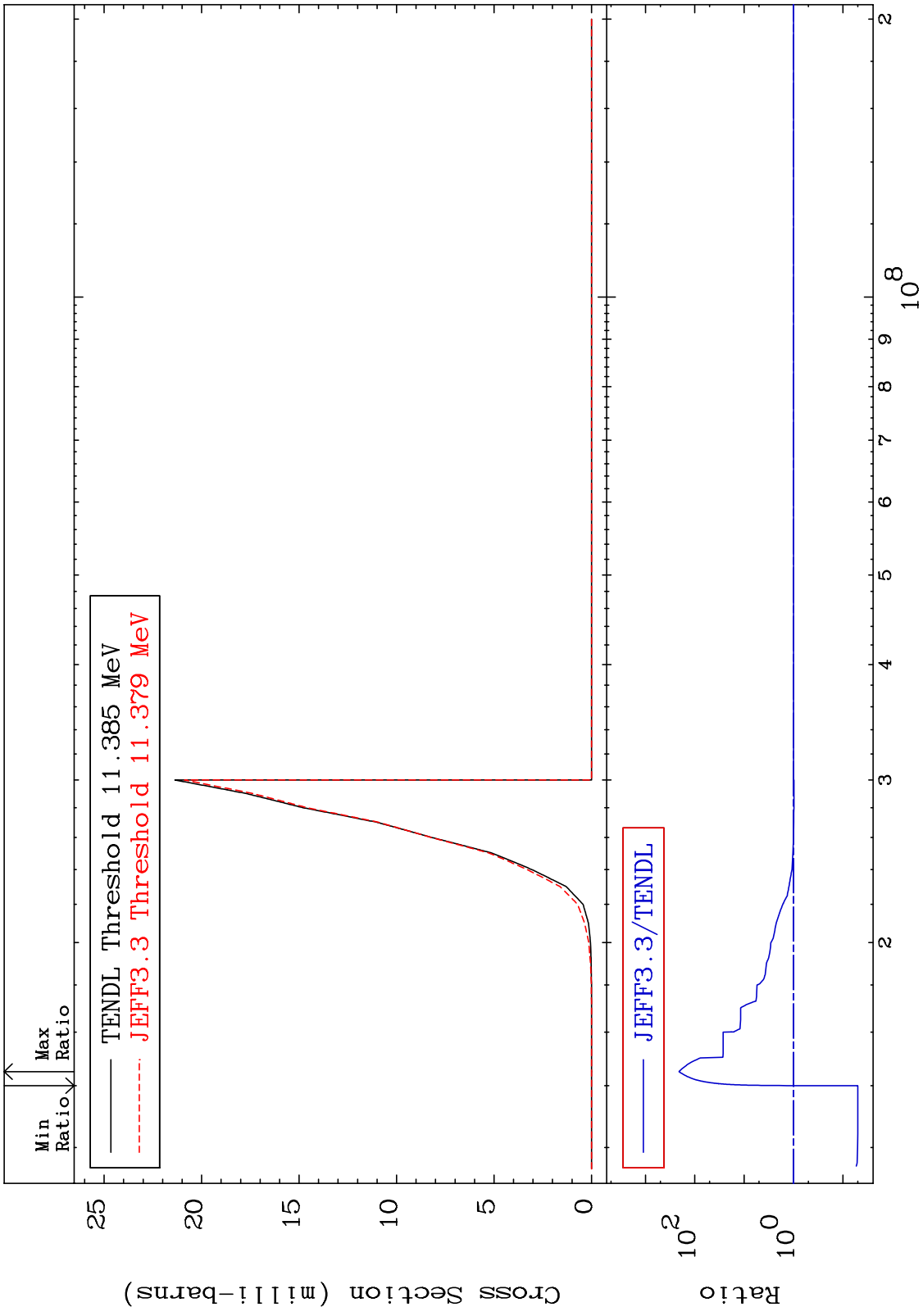
43-Tc-97



MAT 4319 (n, n')  $\alpha$ : 41-Nb-93m1 43-Tc-97  
 Radionuclide Production Cross Section -4.759 To 9999. %





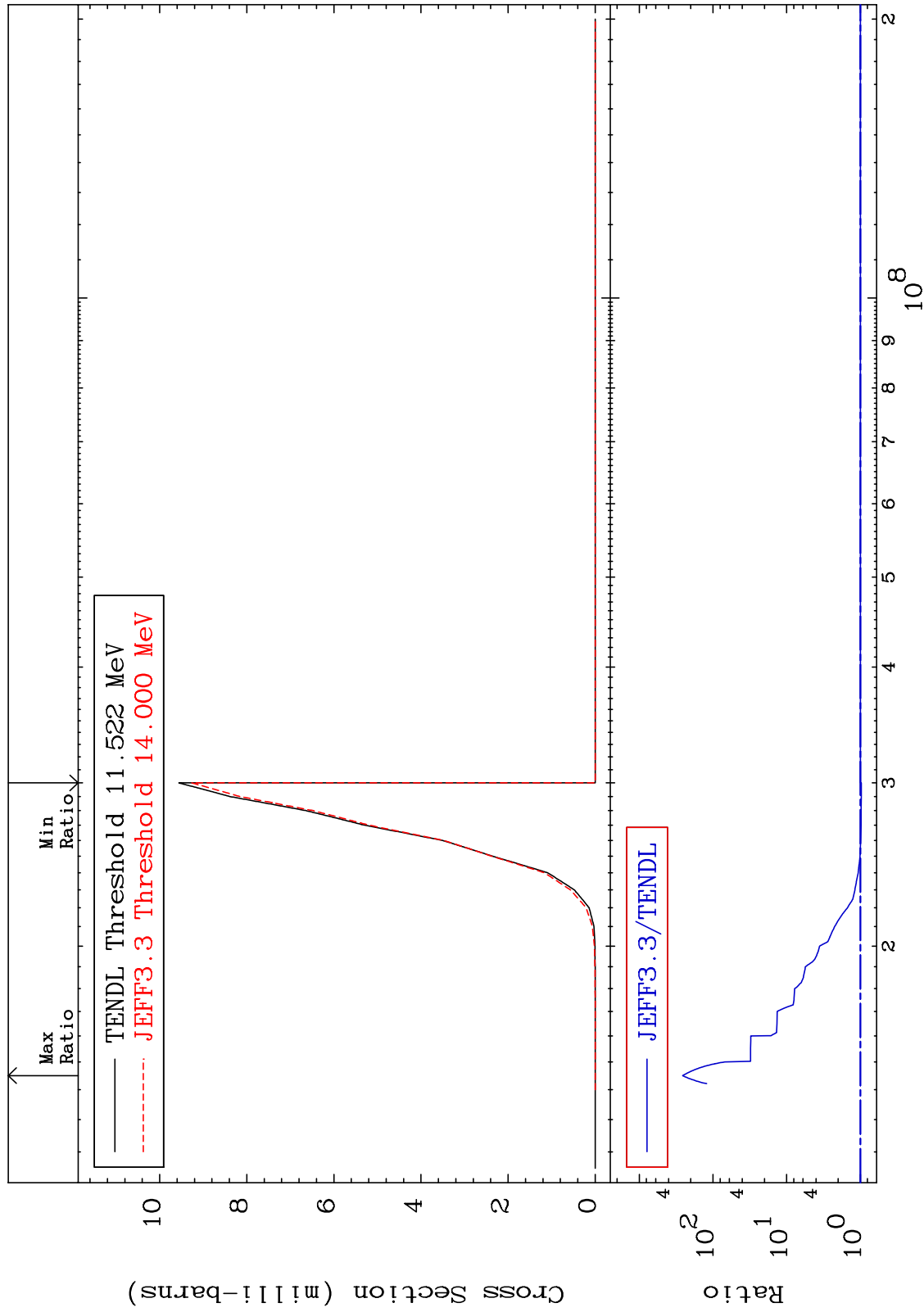


MAT 4319

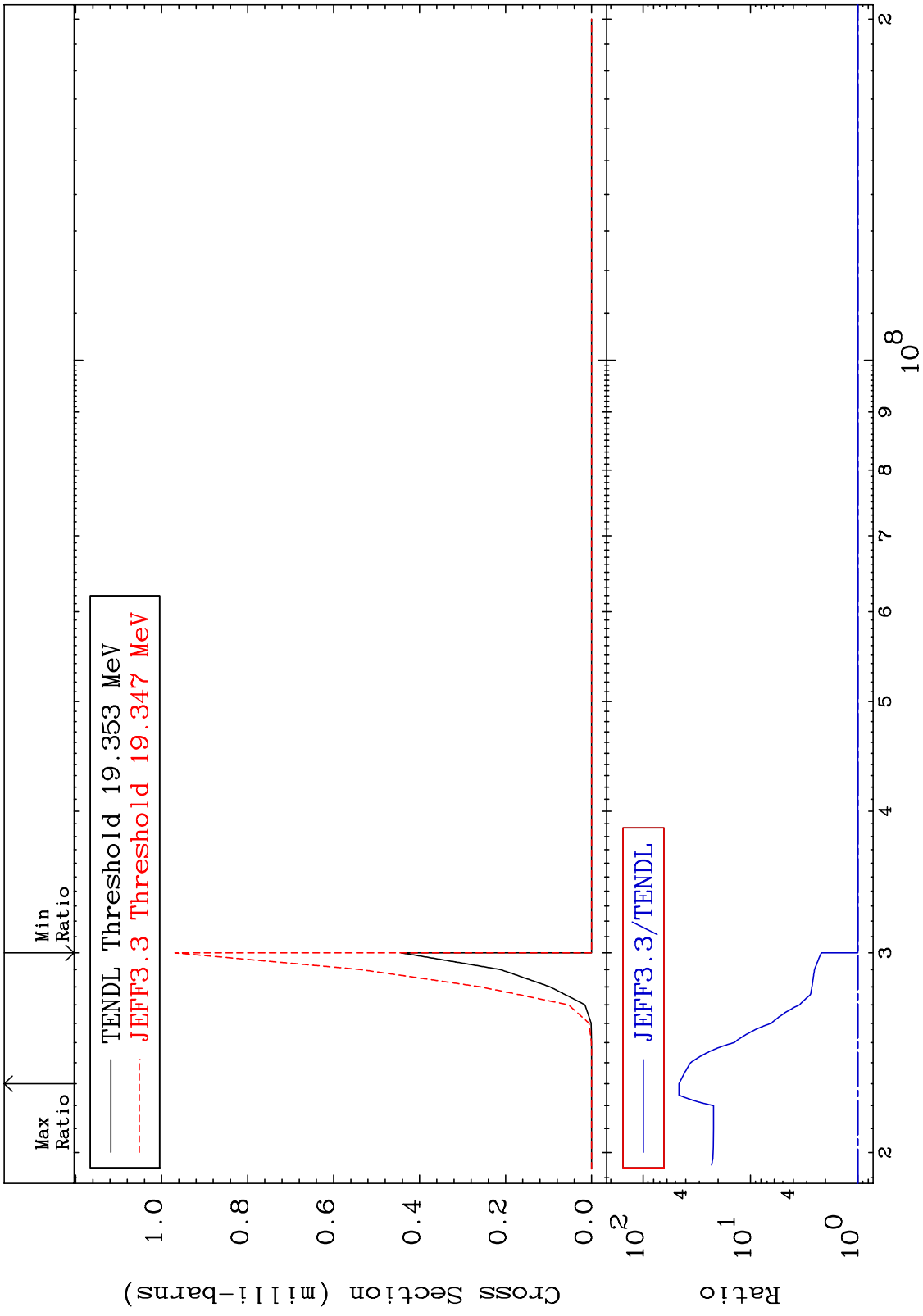
(n,2n)  $\alpha$ :41-Nb-92m1

43-Tc-97

Radionuclide Production Cross Section -3.069 To 9999. %



MAT 4319 (n,3n)  $\alpha$ :41-Nb-91g 43-Tc-97  
 Radionuclide Production Cross Section 0.000 To 4528. %

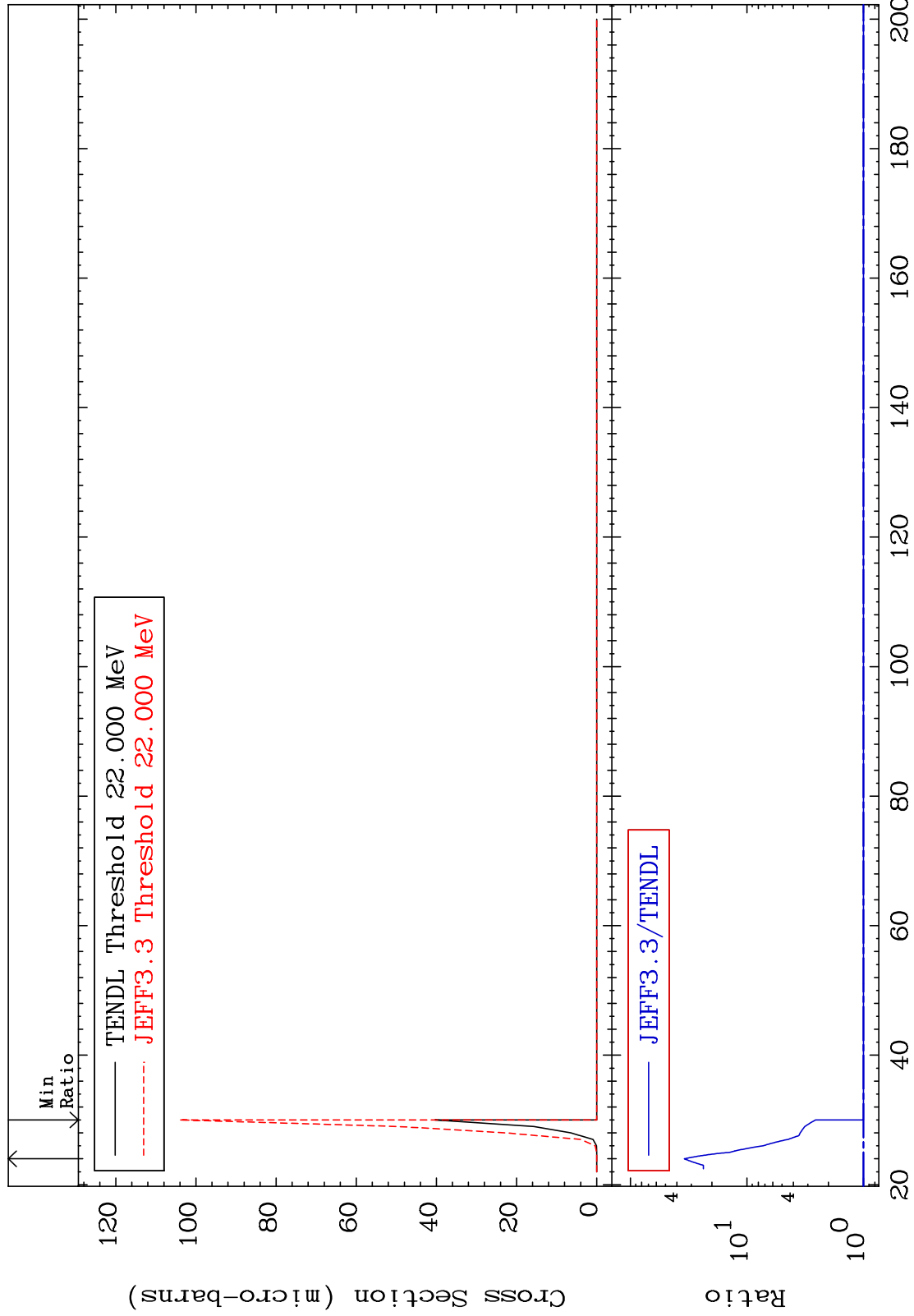


MAT 4319

(n,3n)  $\alpha$ :41-Nb-91m1

43-Tc-97

Radionuclide Production Cross Section 0.000 To 3343. %

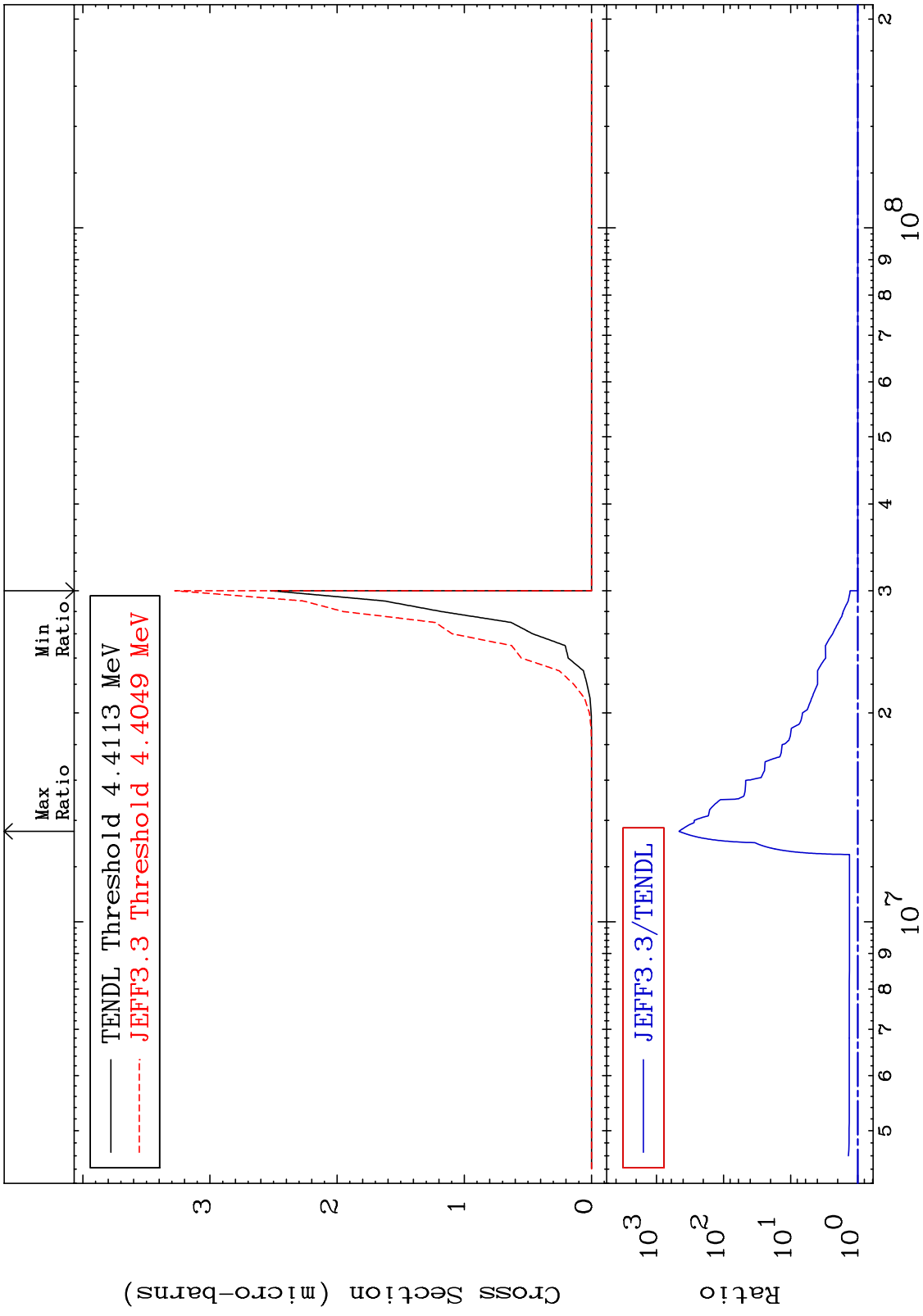


91

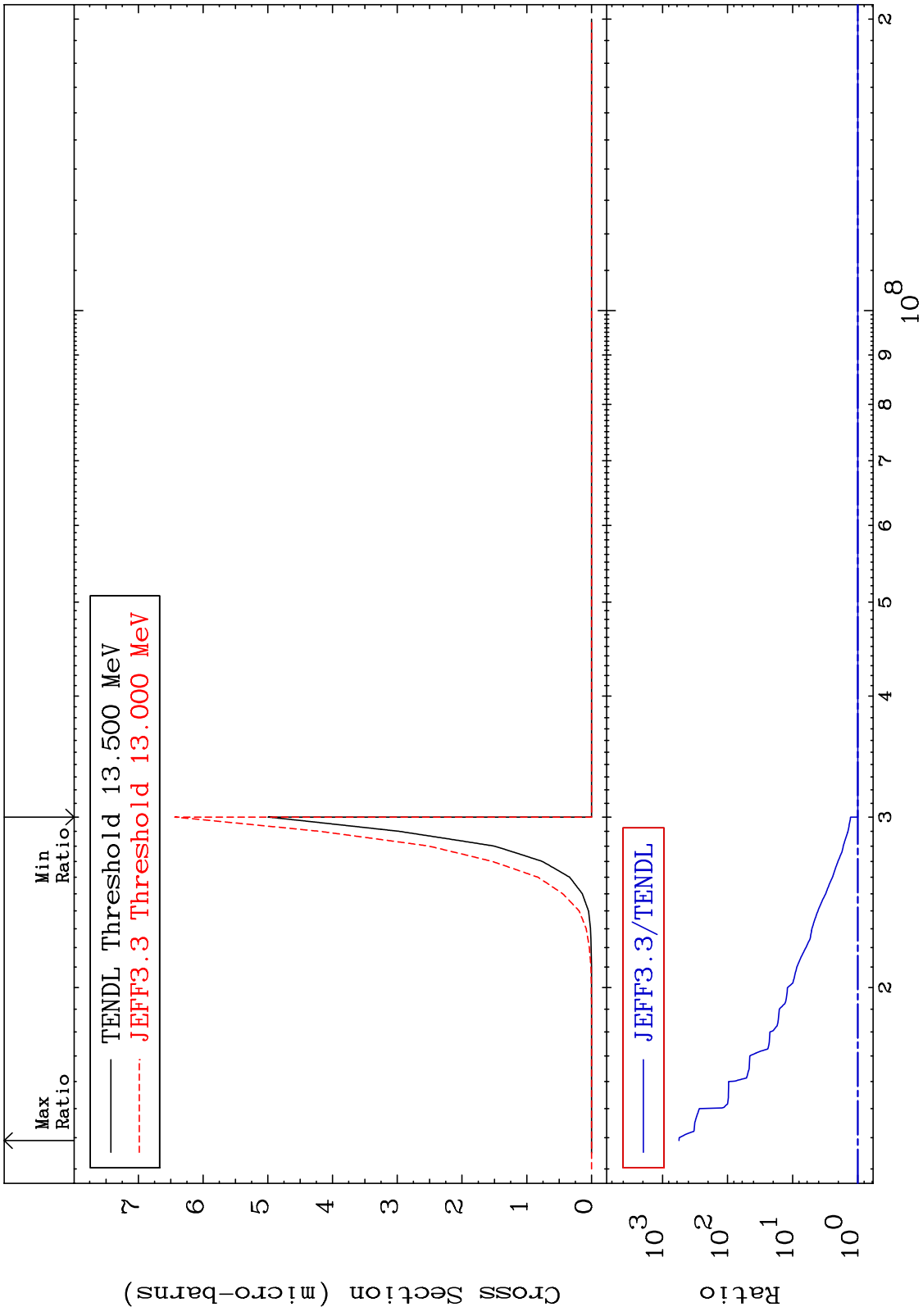
Incident Energy (MeV)

43-Tc-97

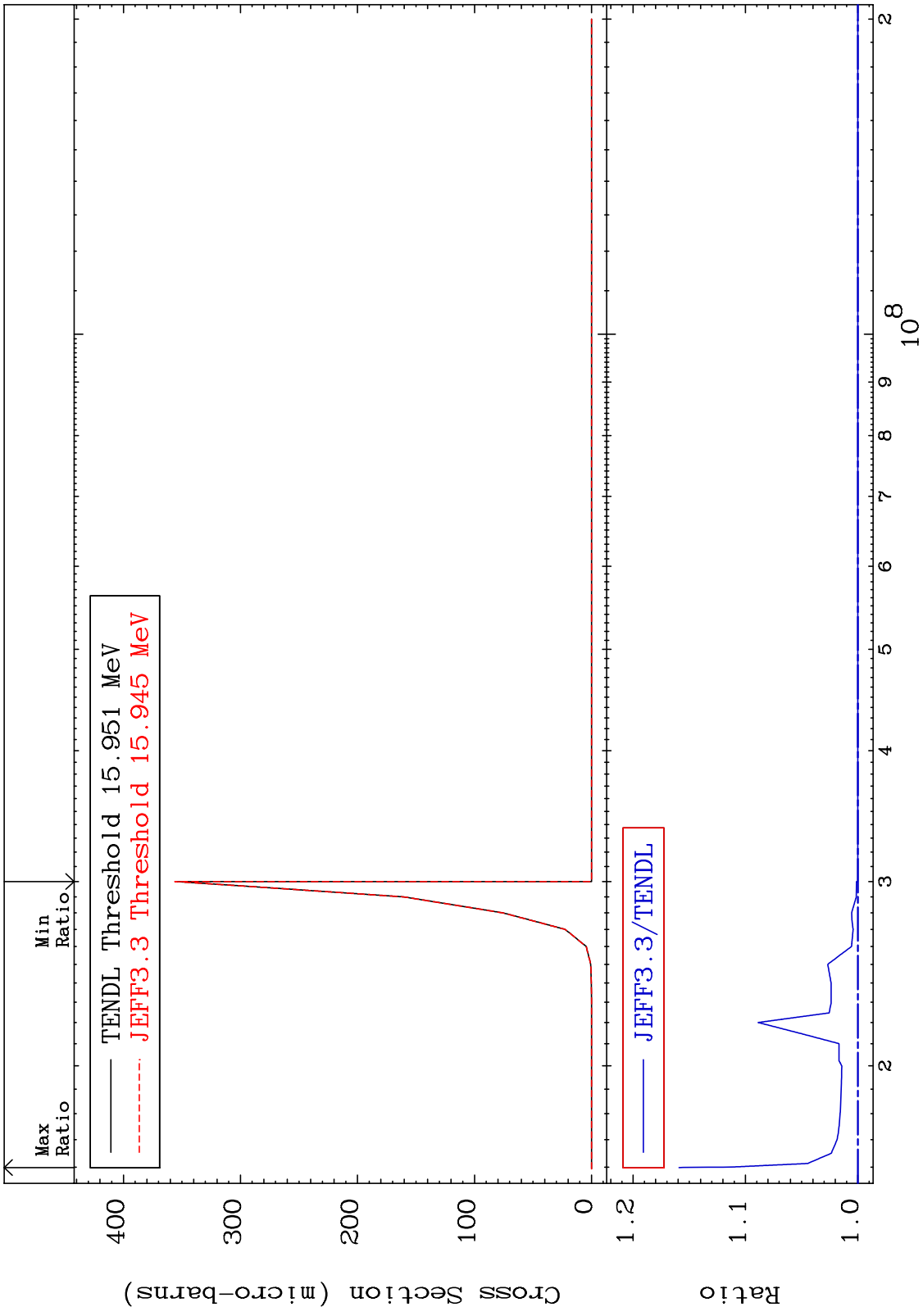
MAT 4319 (n, n') 2α:39-Y -89g 43-Tc-97  
 Radionuclide Production Cross Section 0.000 To 9999. %



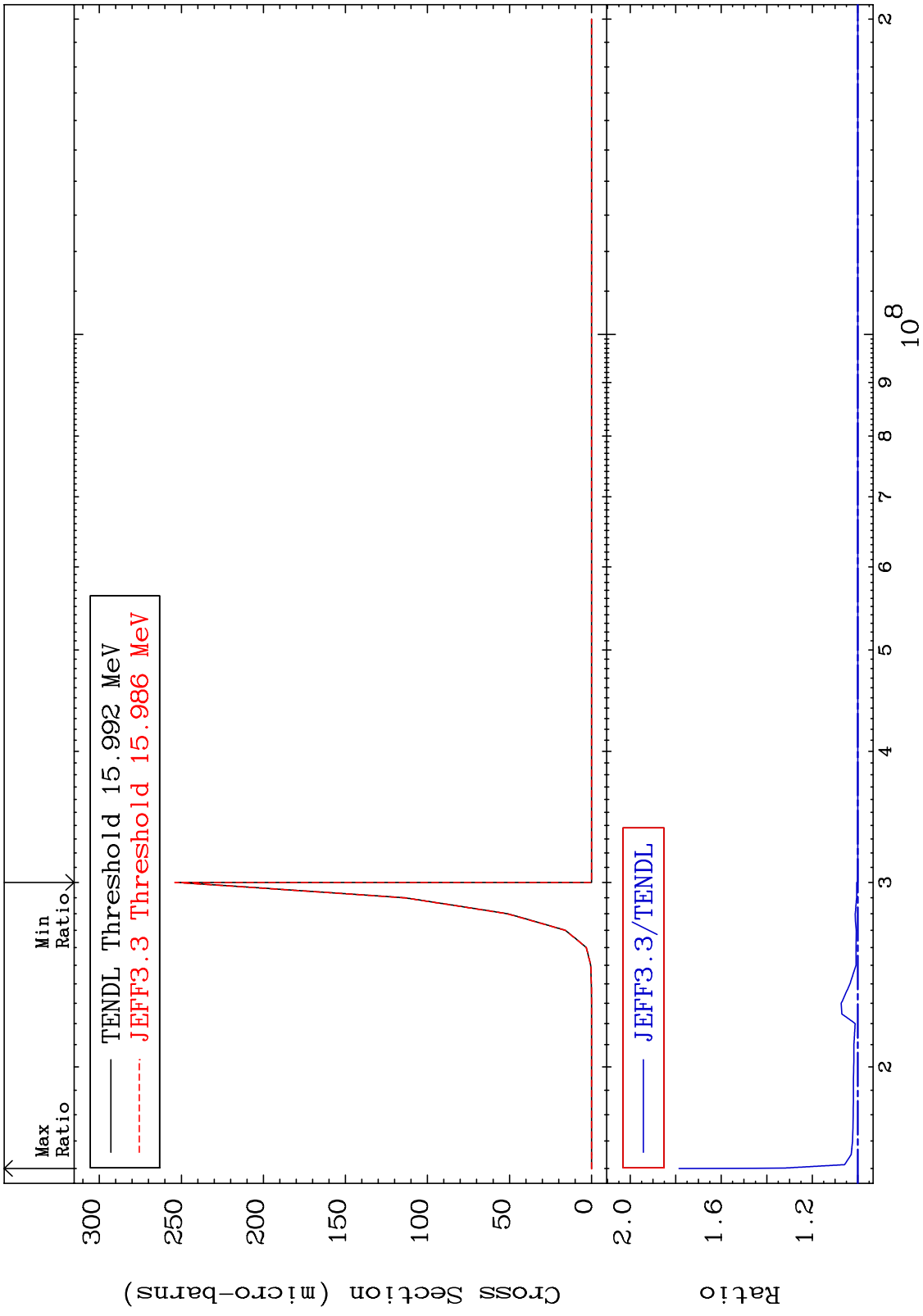
MAT 4319 (n,n') 2α:39-Y -89m1 43-Tc-97  
 Radionuclide Production Cross Section 0.000 To 9999. %



MAT 4319 (n,n') He-3:41-Nb-94g 43-Tc-97  
 Radionuclide Production Cross Section 0.000 To 15.91 %



MAT 4319 (n,n') He-3:41-Nb-94m1 43-Tc-97  
 Radionuclide Production Cross Section 0.000 To 78.53 %



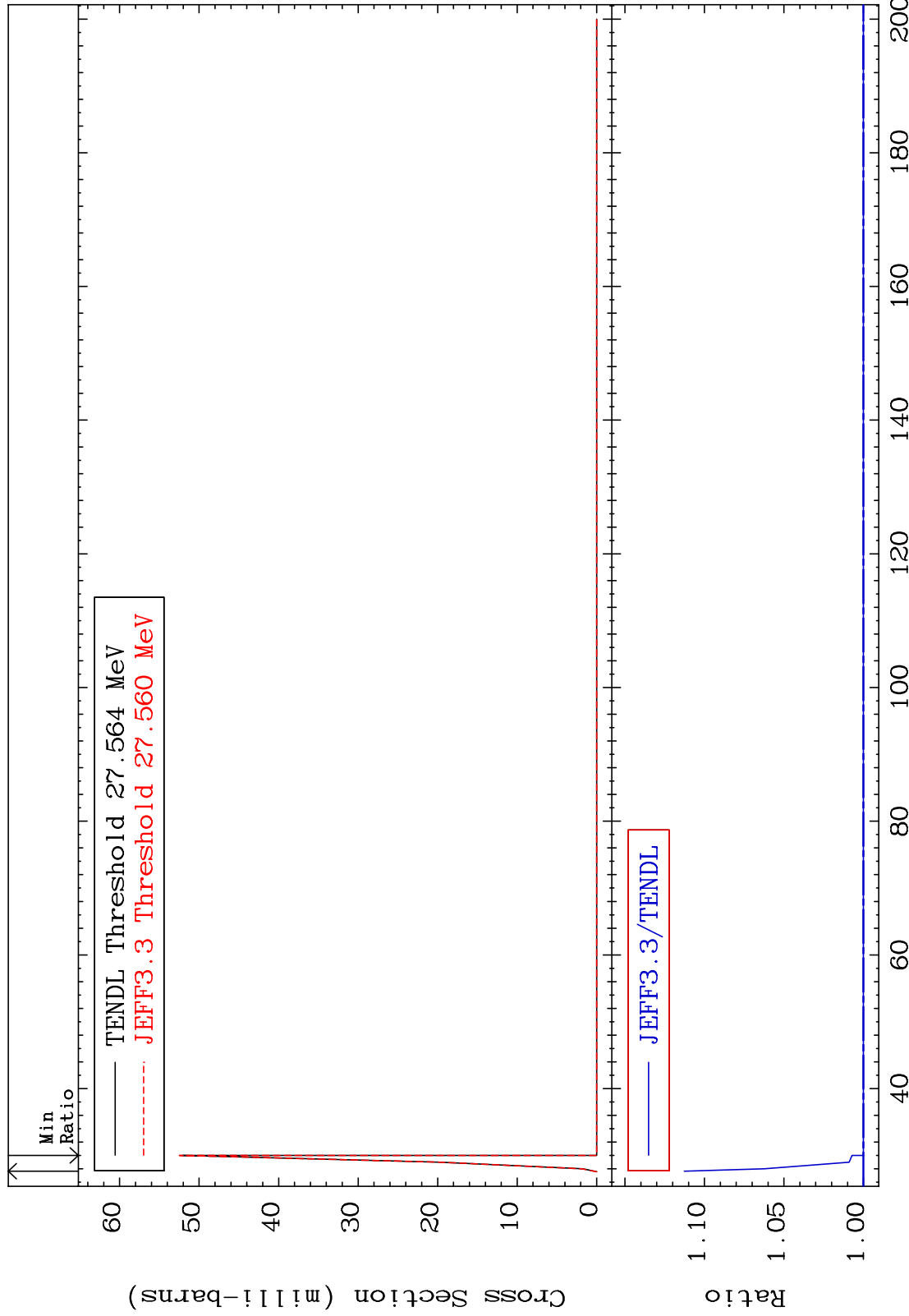


MAT 4319

(n,4n) : 43-Tc-94g

43-Tc-97

Radionuclide Production Cross Section 0.000 To 11.27 %

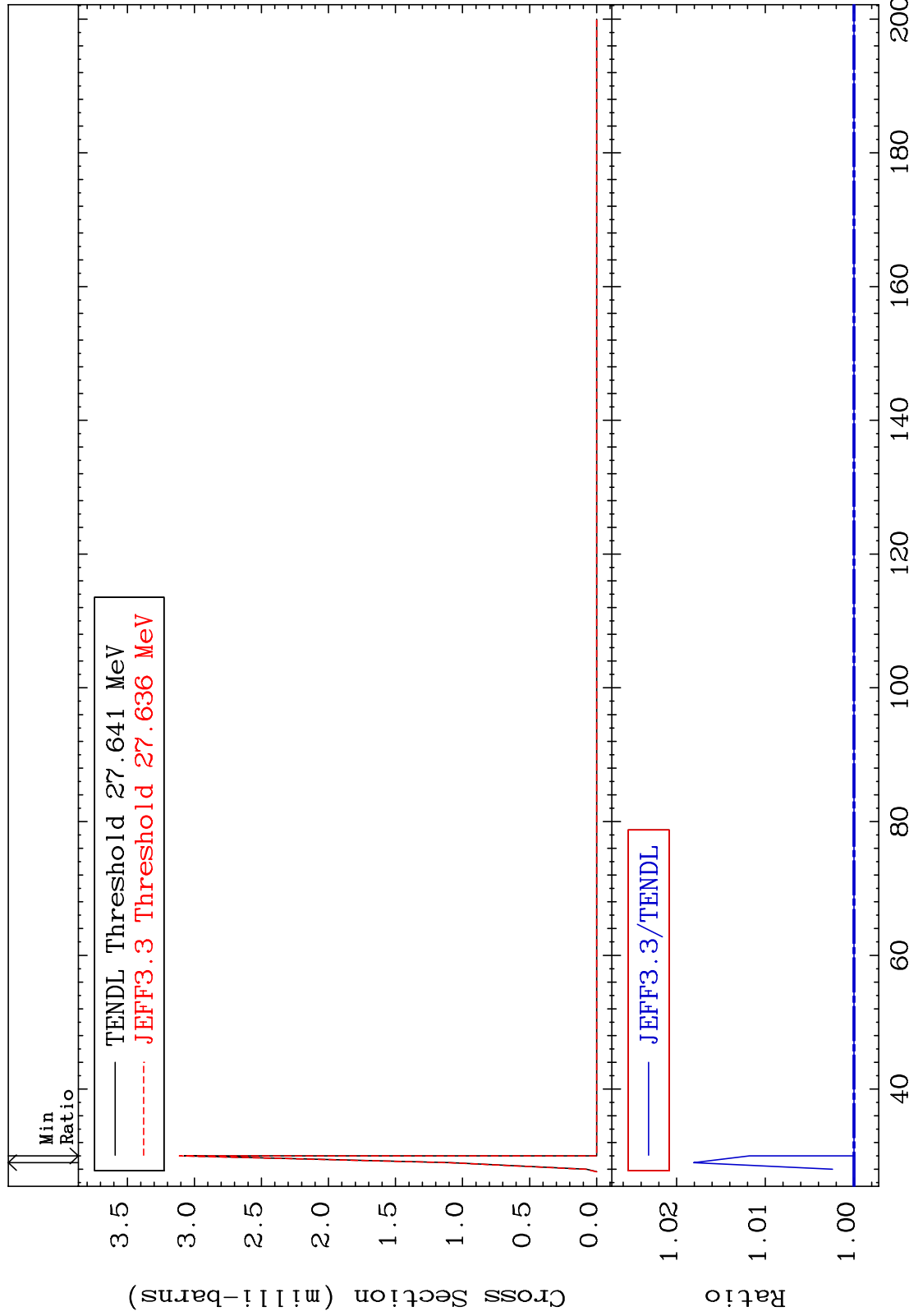


MAT 4319

(n,4n):43-Tc-94m1

43-Tc-97

Radionuclide Production Cross Section 0.000 To 1.806 %



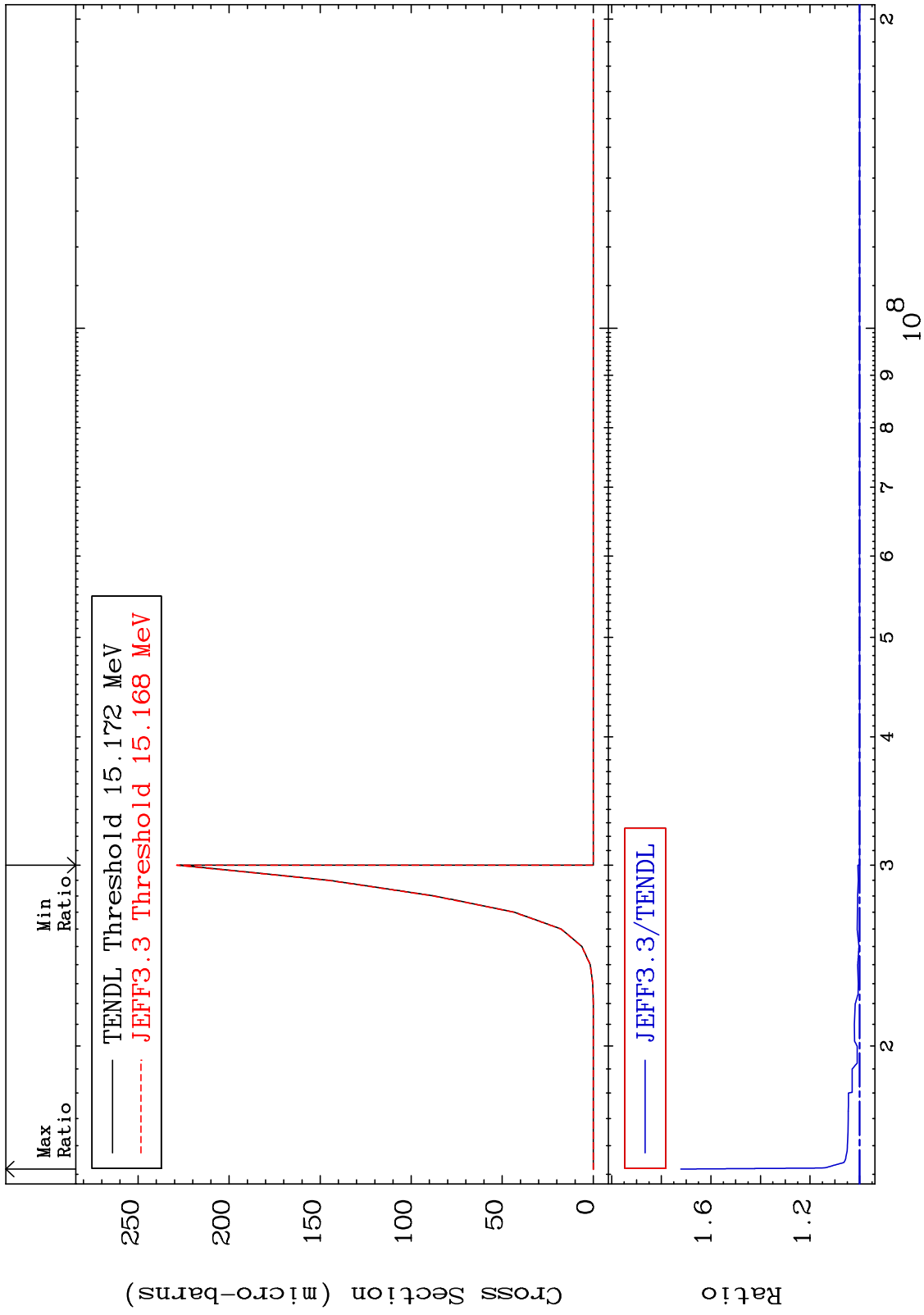
97

Incident Energy (MeV)

43-Tc-97

MAT 4319

(n,2n) p:41-Nb-95g 43-Tc-97  
Radionuclide Production Cross Section 0.000 To 72.14 %

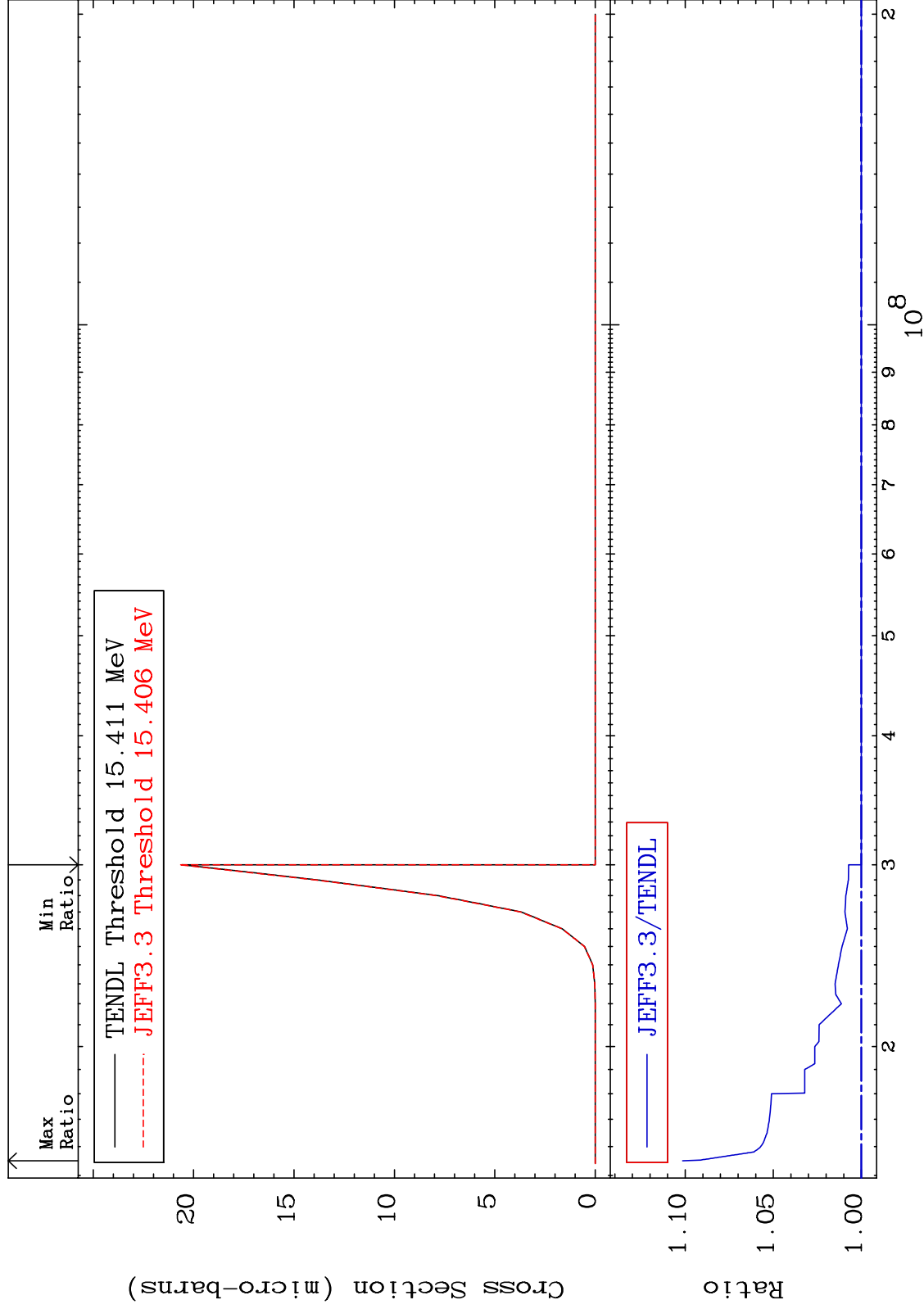


MAT 4319

(n,2n) p:41-Nb-95m1

43-Tc-97

Radionuclide Production Cross Section 0.000 To 10.15 %

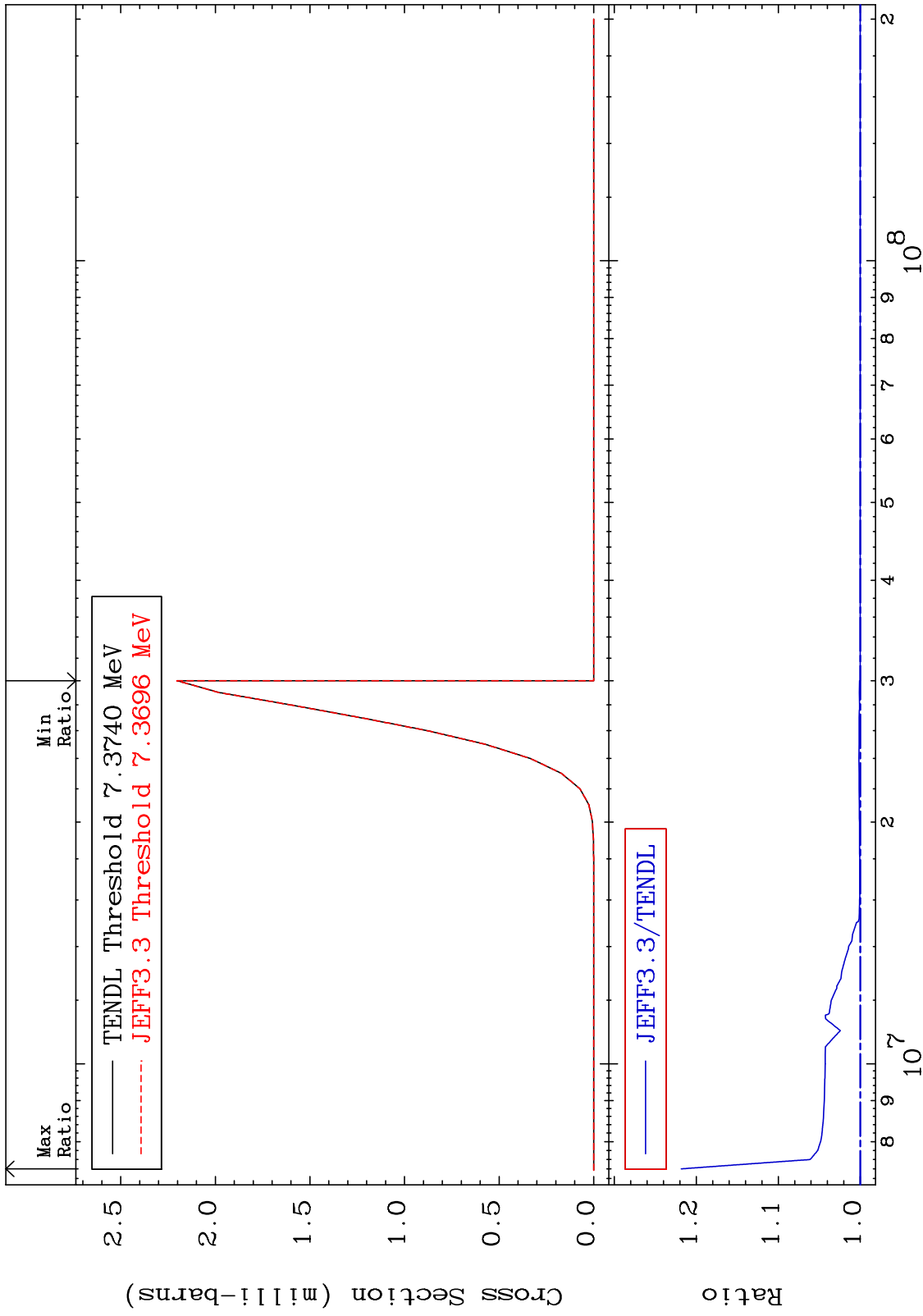


MAT 4319

(n,He-3) : 41-Nb-95g

Radionuclide Production Cross Section 0.000 To 21.83 %

43-Tc-97



100

Incident Energy (eV)

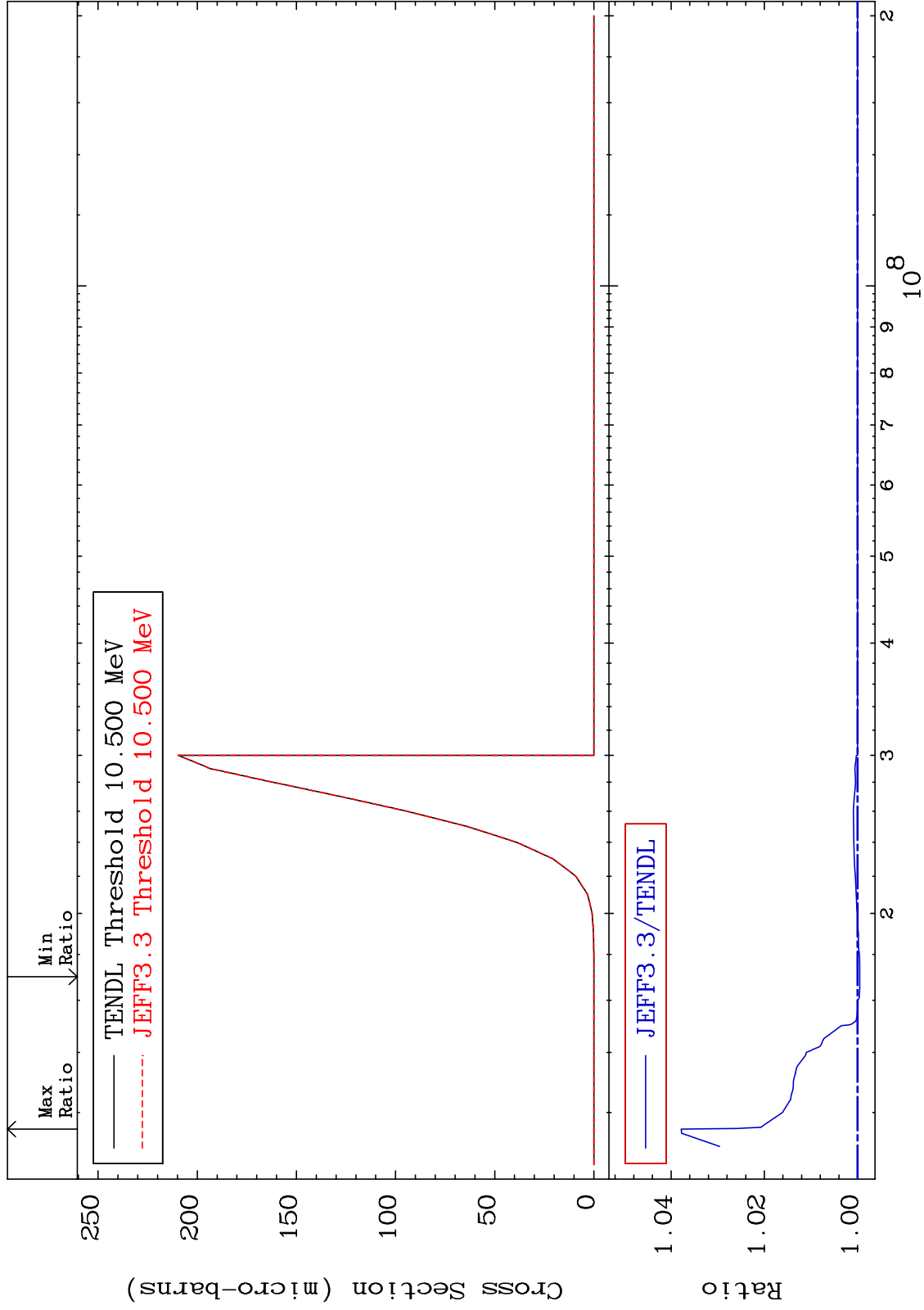
43-Tc-97

MAT 4319

(n, He-3) : 41-Nb-95m1

43-Tc-97

Radionuclide Production Cross Section -0.046 To 3.782 %

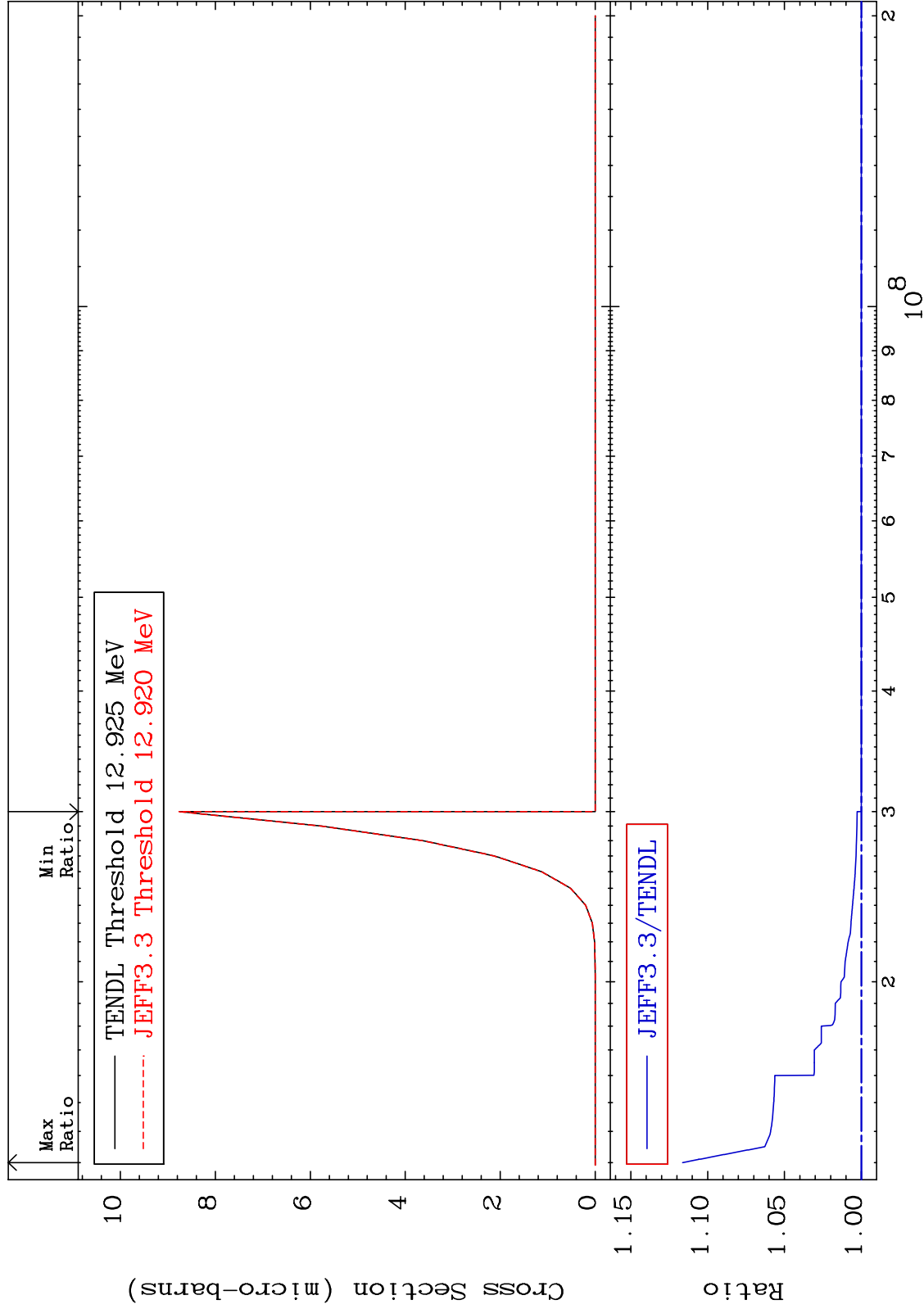


MAT 4319

(n,p) d:41-Nb-95g

43-Tc-97

Radionuclide Production Cross Section 0.000 To 11.63 %



102

Incident Energy (eV)

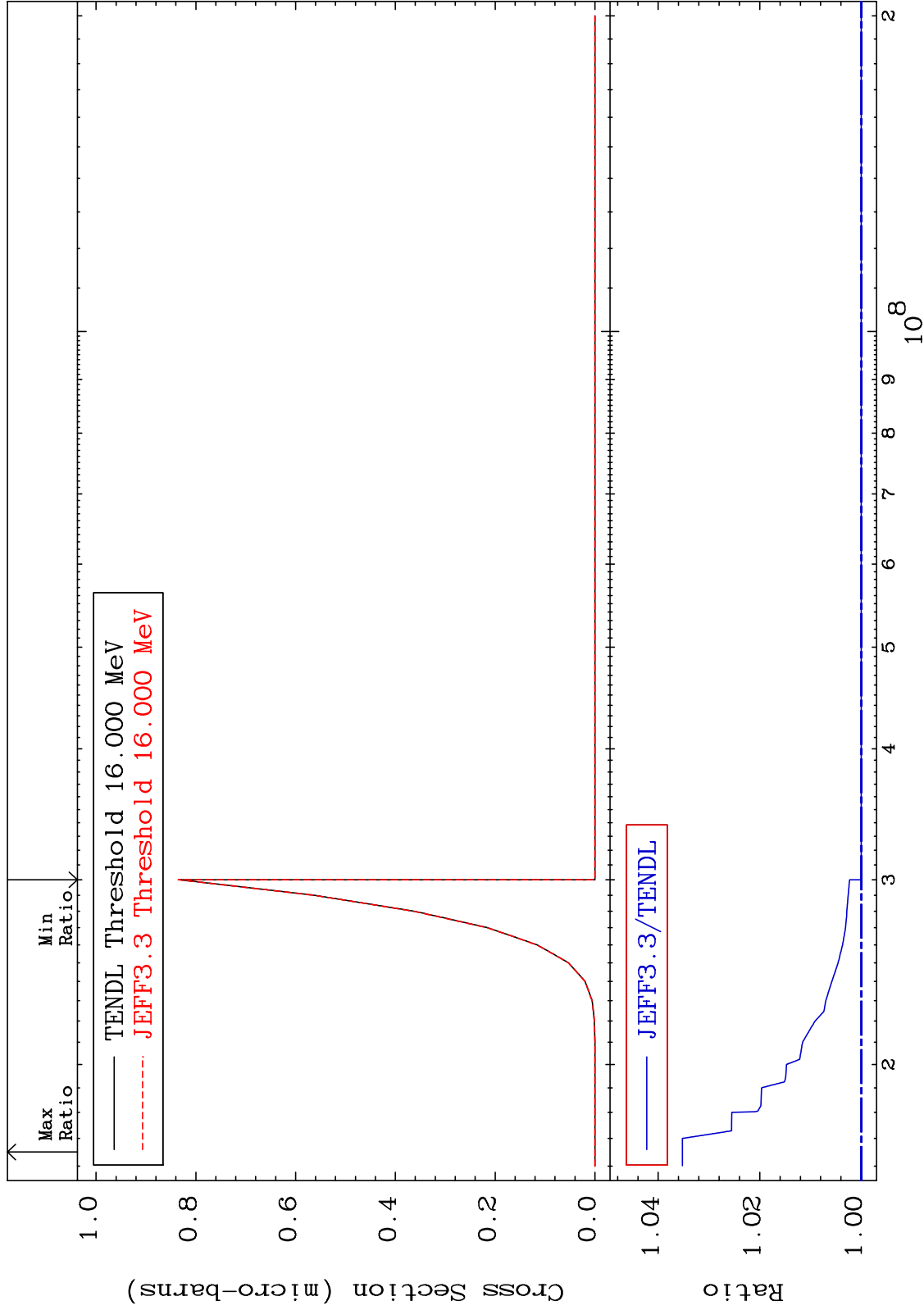
43-Tc-97

MAT 4319

(n,p) d:41-Nb-95m1

43-Tc-97

Radionuclide Production Cross Section 0.000 To 3.523 %



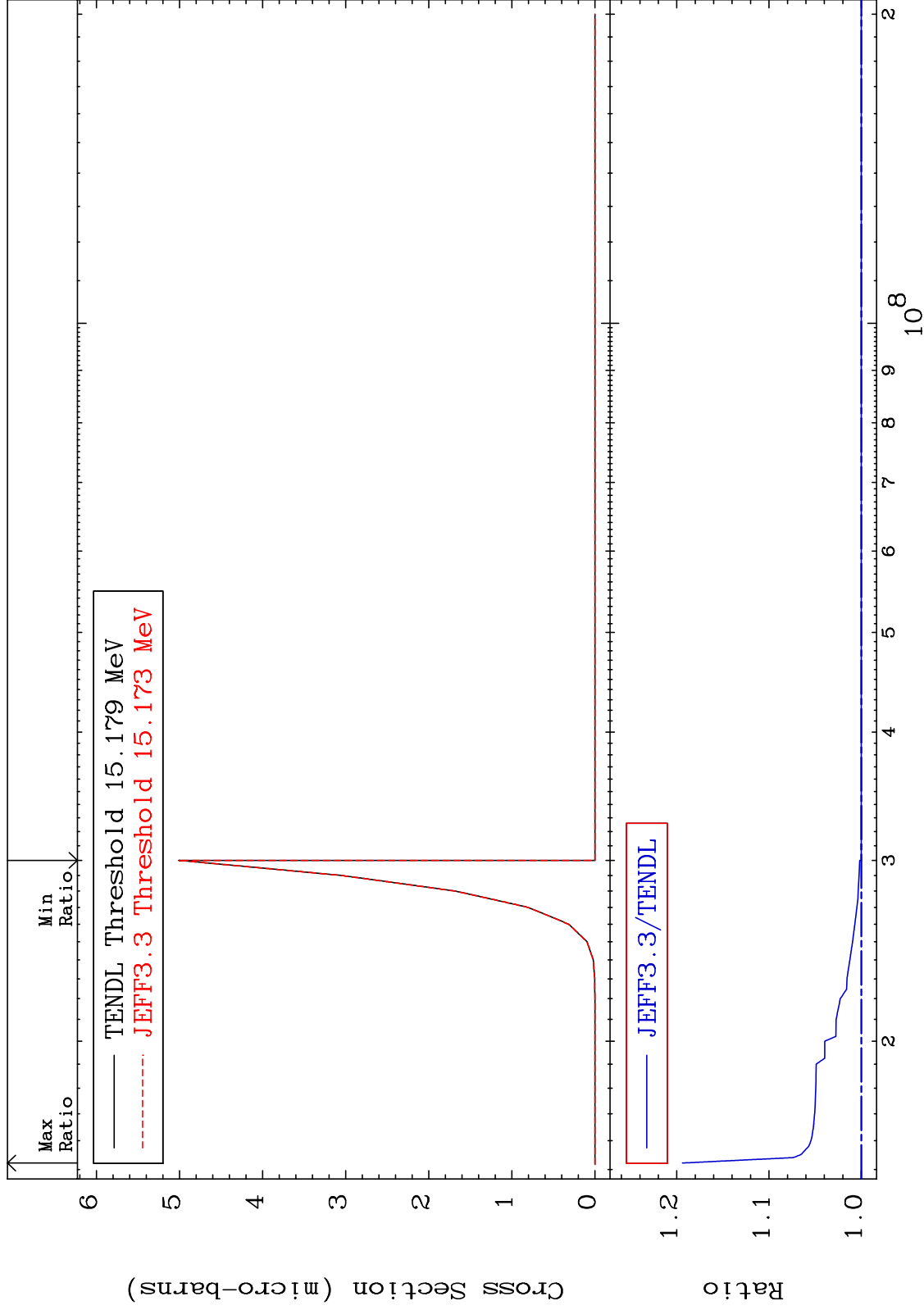


MAT 4319

(n,p) t:41-Nb-94g

43-Tc-97

Radionuclide Production Cross Section 0.000 To 19.38 %



MAT 4319

(n,p) t:41-Nb-94m1

43-Tc-97

Radionuclide Production Cross Section 0.000 To 8.499 %

