

Program Complot  
(Version 2021-1)

by

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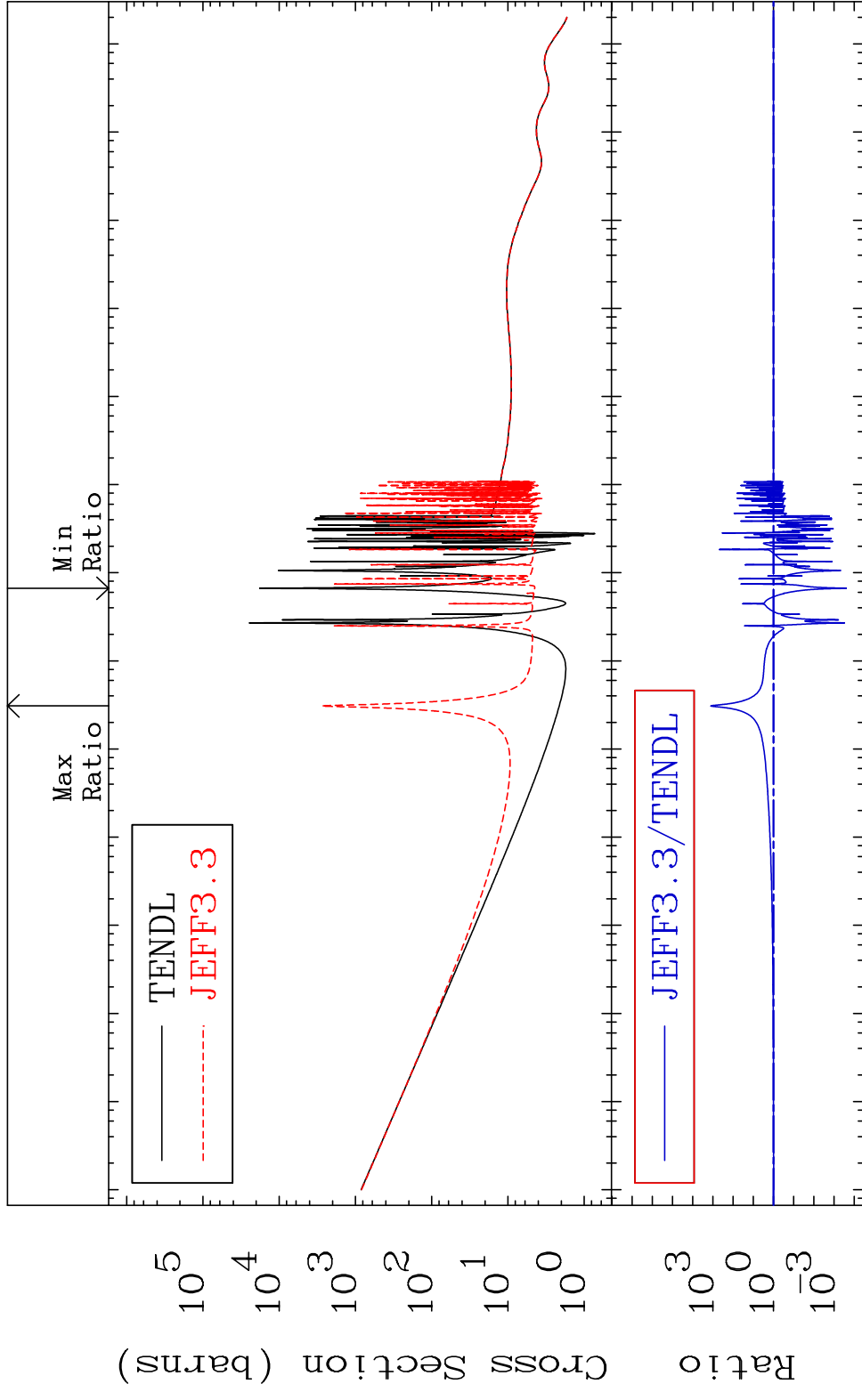
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 4319

Total Cross Section -99.98 To 9999. %

43-Tc-97



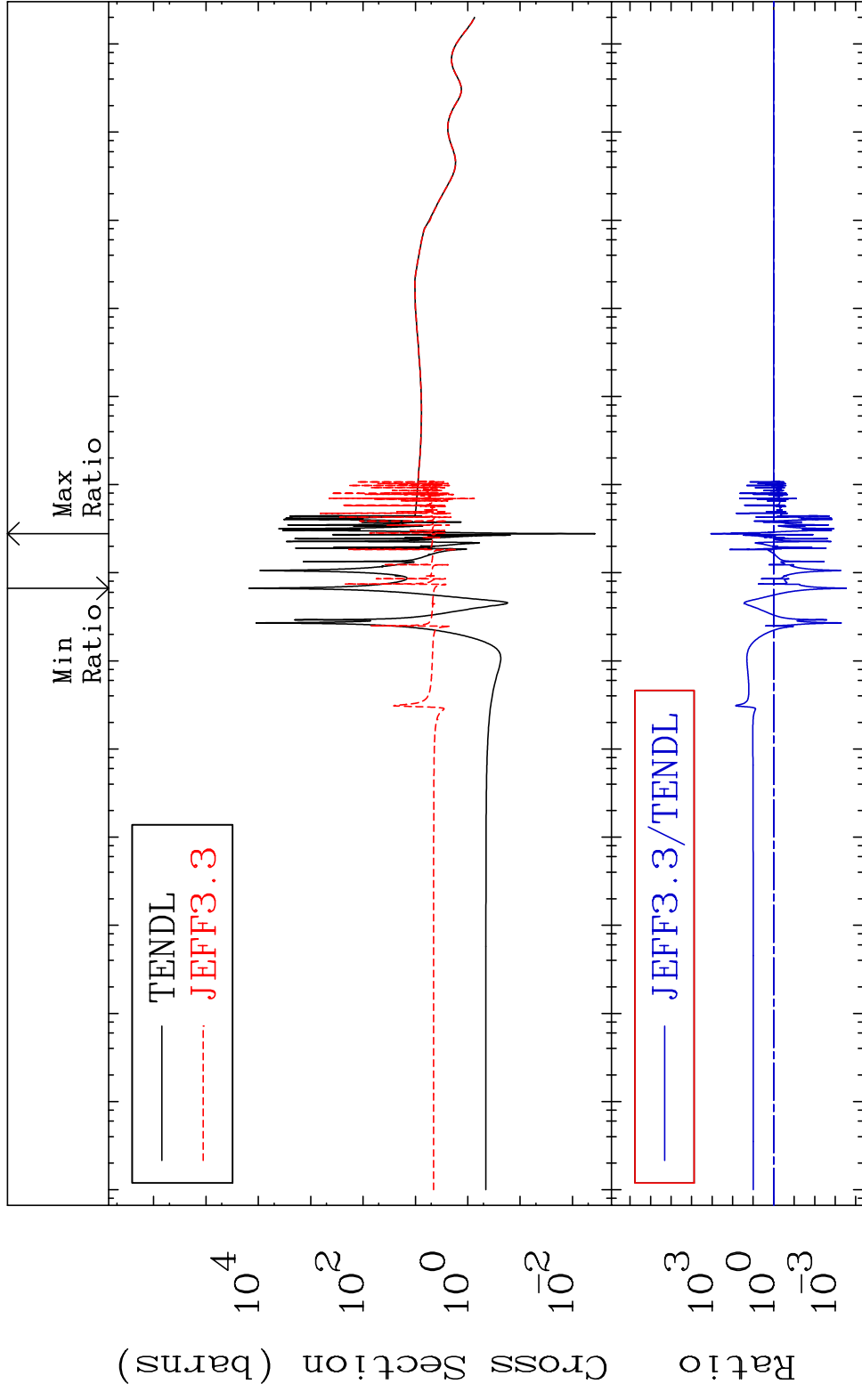
1

Incident Energy (eV)

43-Tc-97

MAT 4319

Elastic Cross Section -99.97 To 9999. % 43-Tc-97



2

Incident Energy (eV)

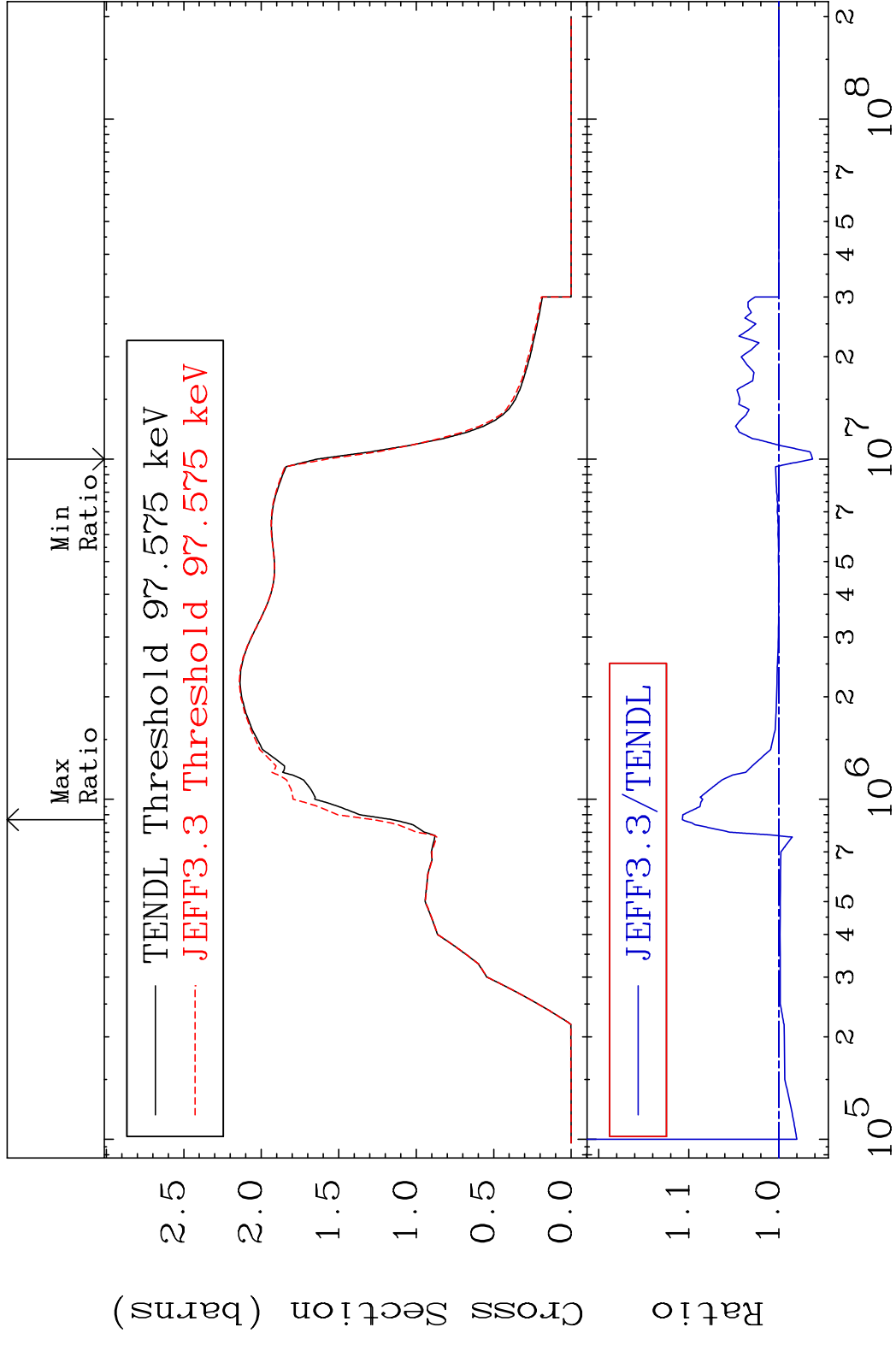
43-Tc-97

MAT 4319

Inelastic

43-Tc-97

Cross Section -3.742 To 10.71 %



43-Tc-97

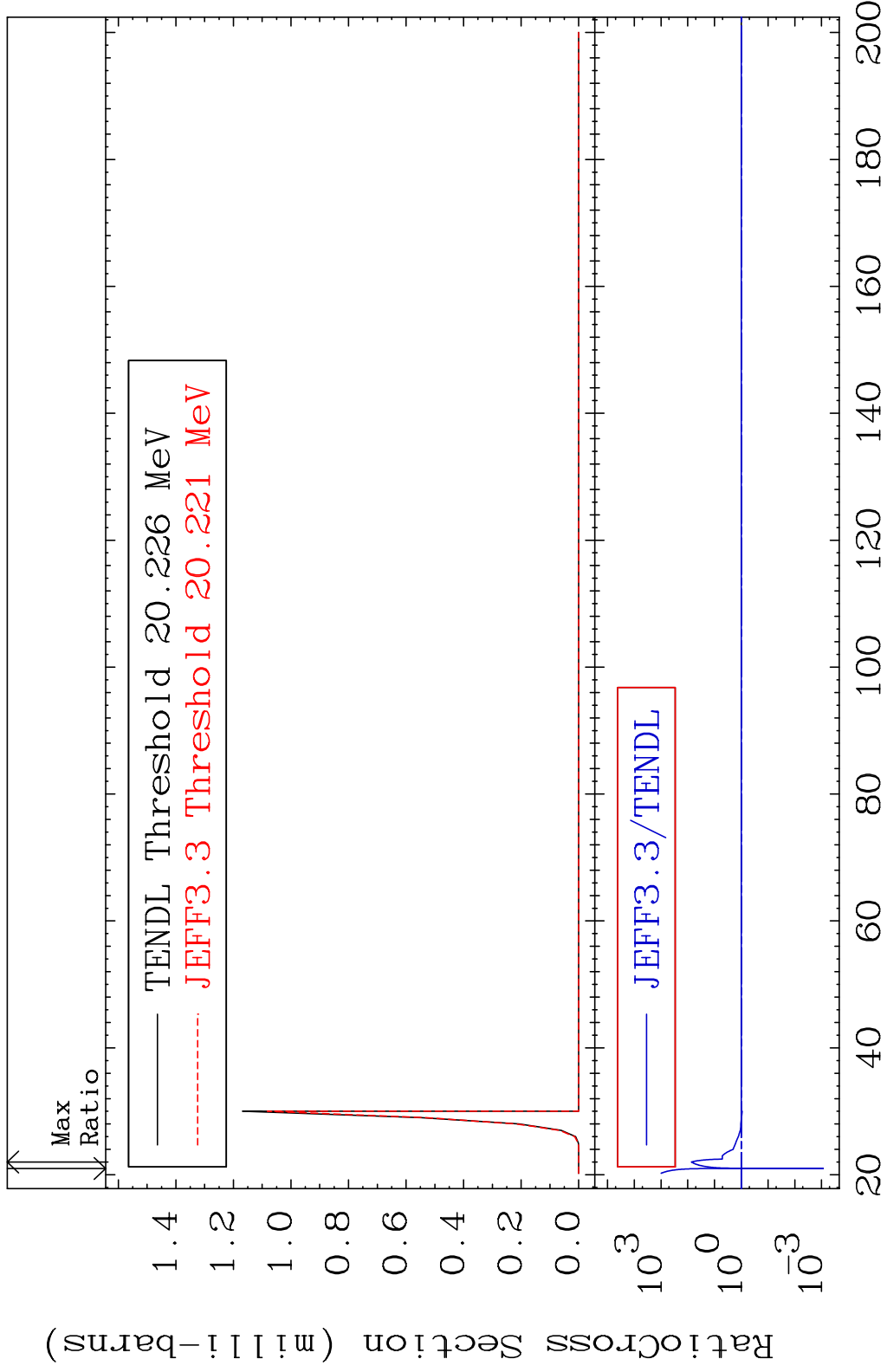
Incident Energy (eV)

MAT 4319

(n,2n) d

43-Tc-97

Cross Section -99.91 To 7258. %

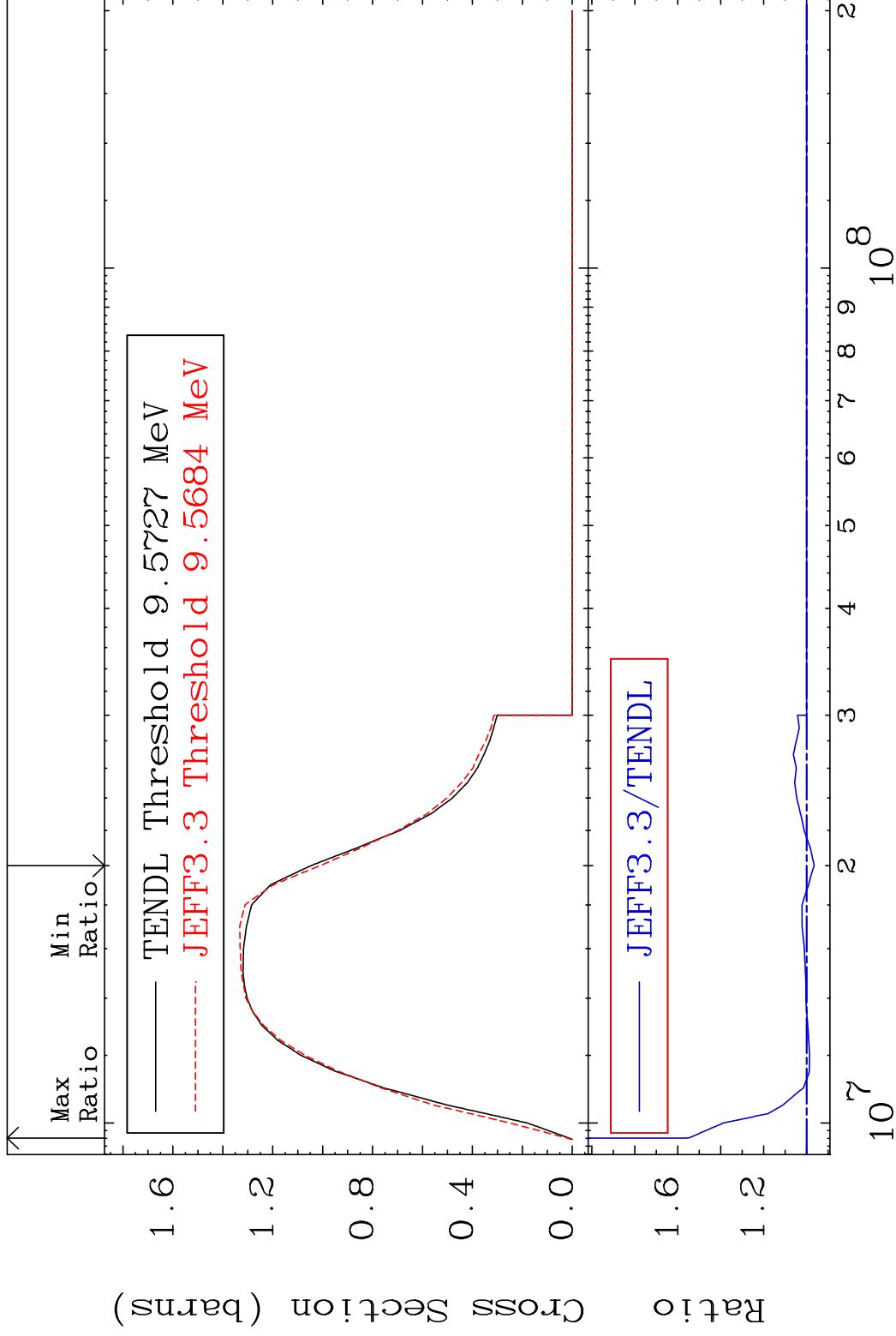


MAT 4319

(n,2n)

43-Tc-97

Cross Section -3.521 To 57.26 %



5

Incident Energy (eV)

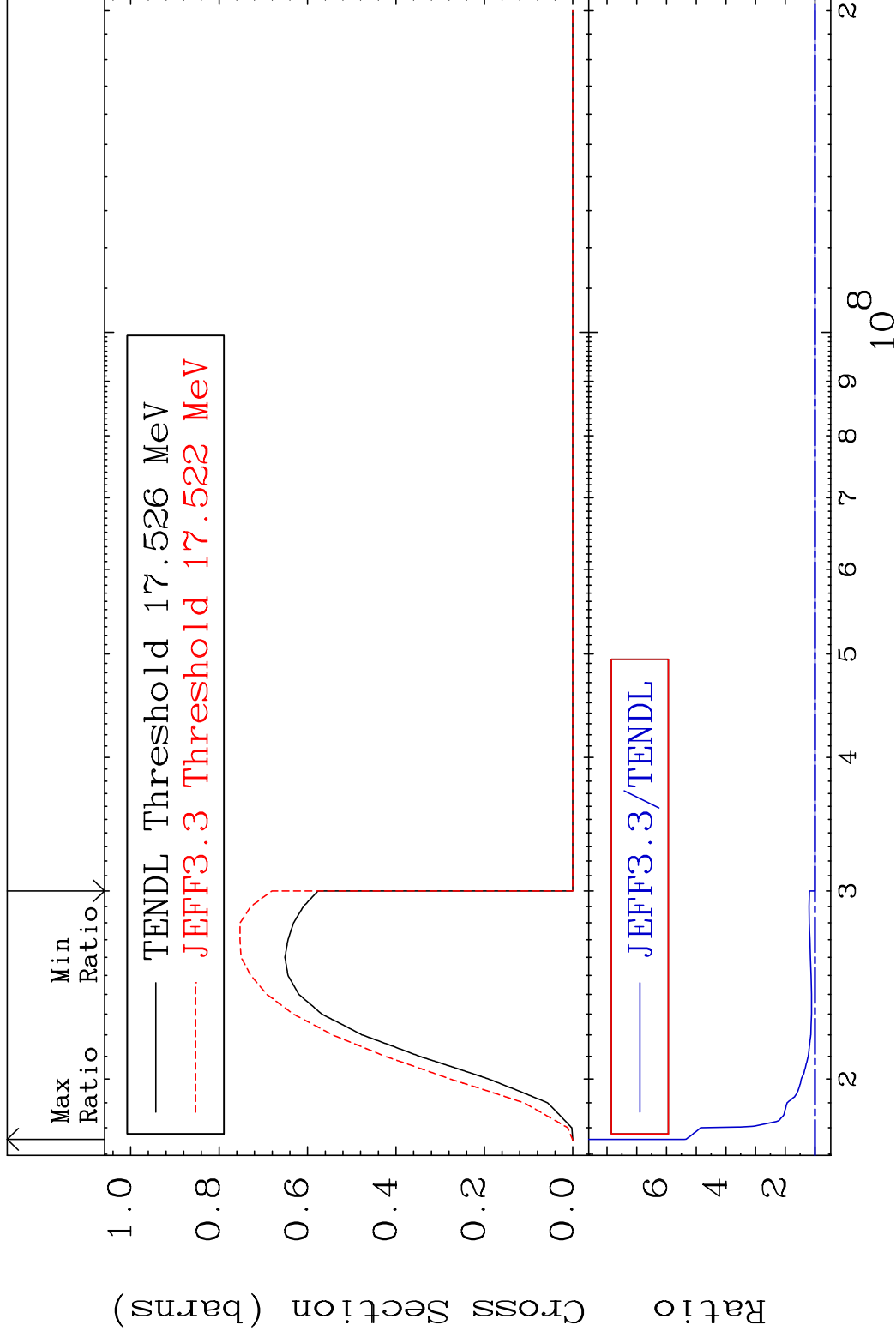
43-Tc-97

MAT 4319

(n,3n)

43-Tc-97

Cross Section 0.000 To 440.0 %

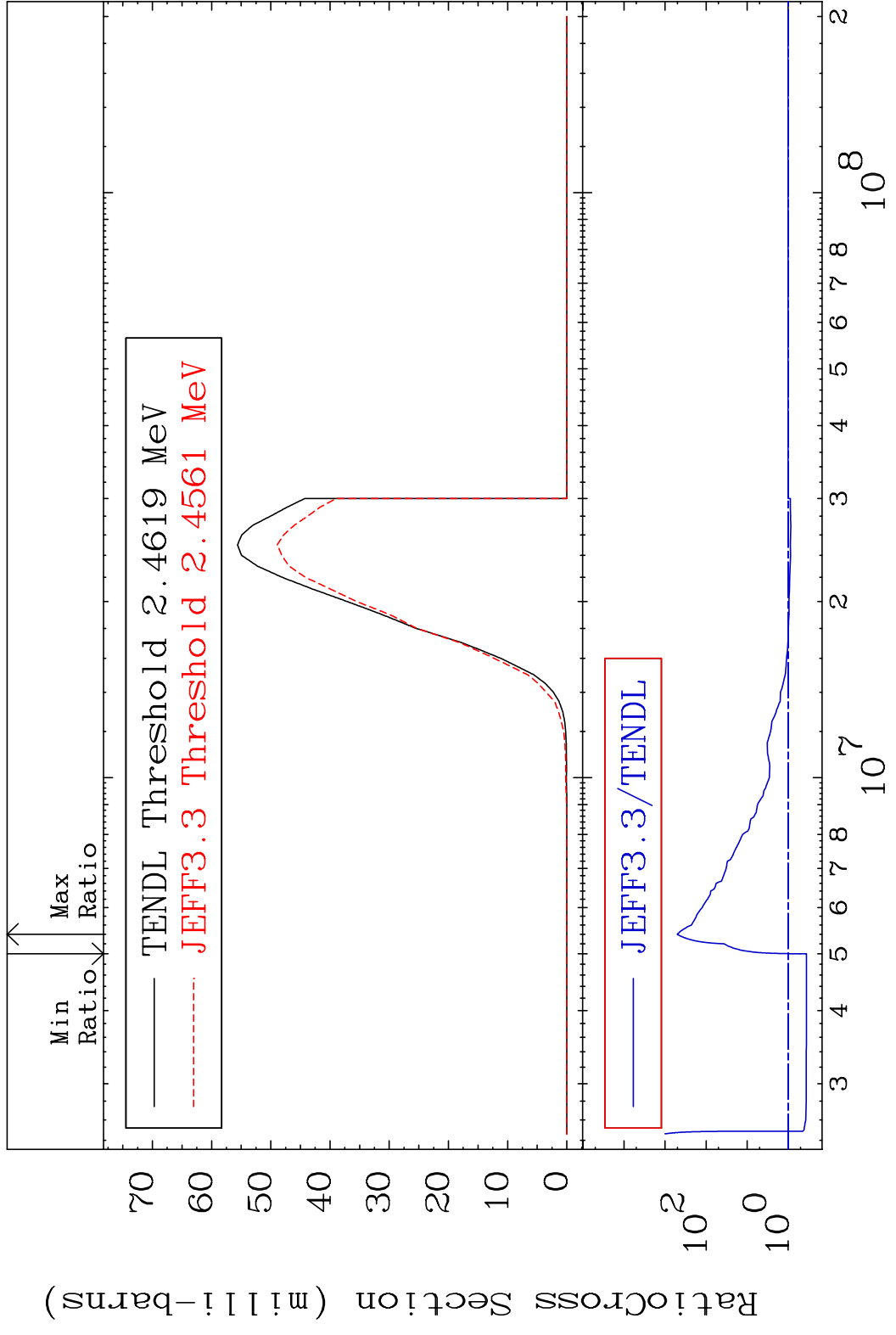


6

Incident Energy (eV)

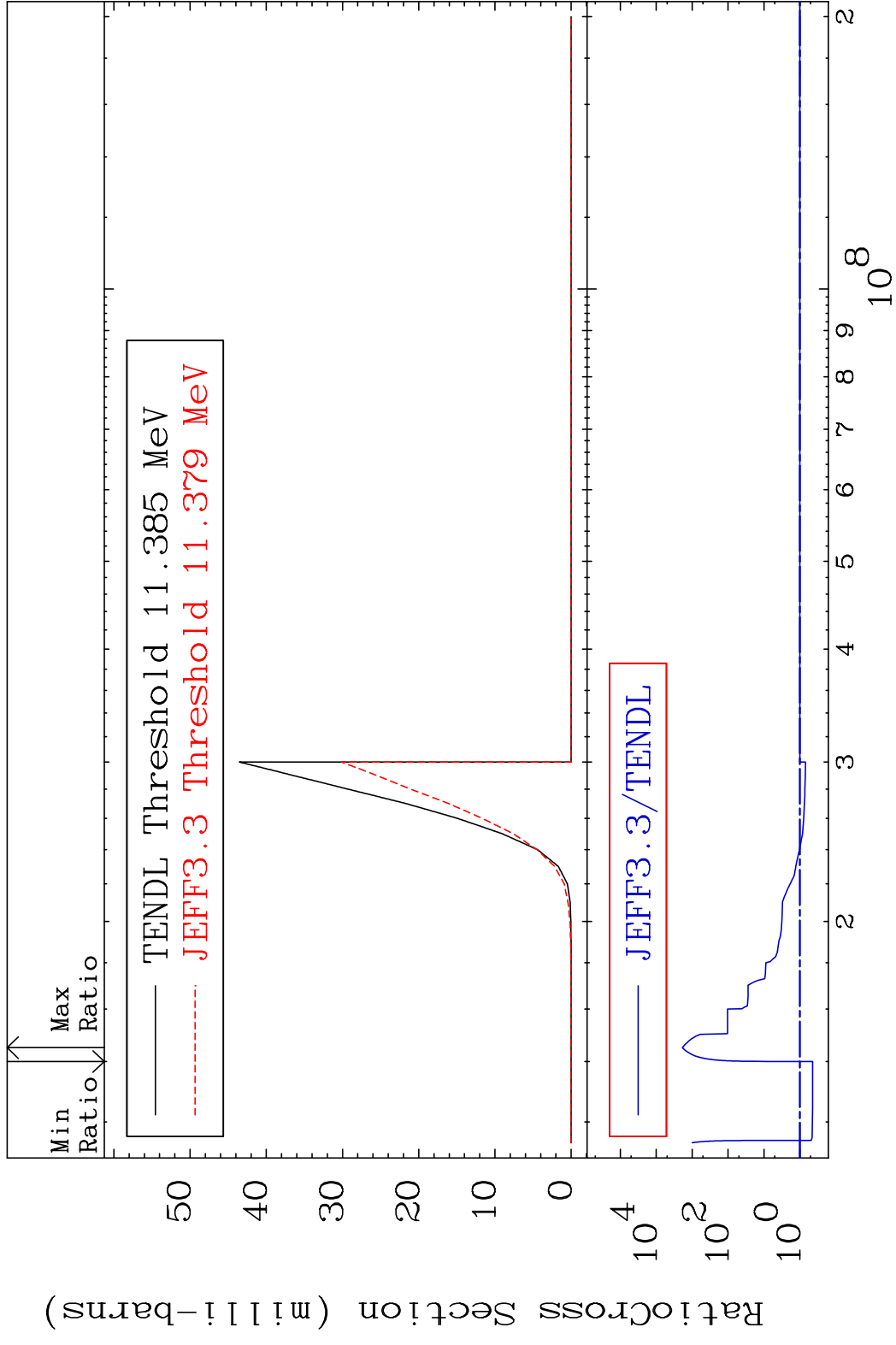
43-Tc-97

MAT 4319 (n, n')  $\alpha$  43-Tc-97  
 Cross Section -63.98 To 9999. %



7 Incident Energy (eV) 43-Tc-97

MAT 4319 (n,2n)  $\alpha$  43-Tc-97  
 Cross Section -55.84 To 9999. %

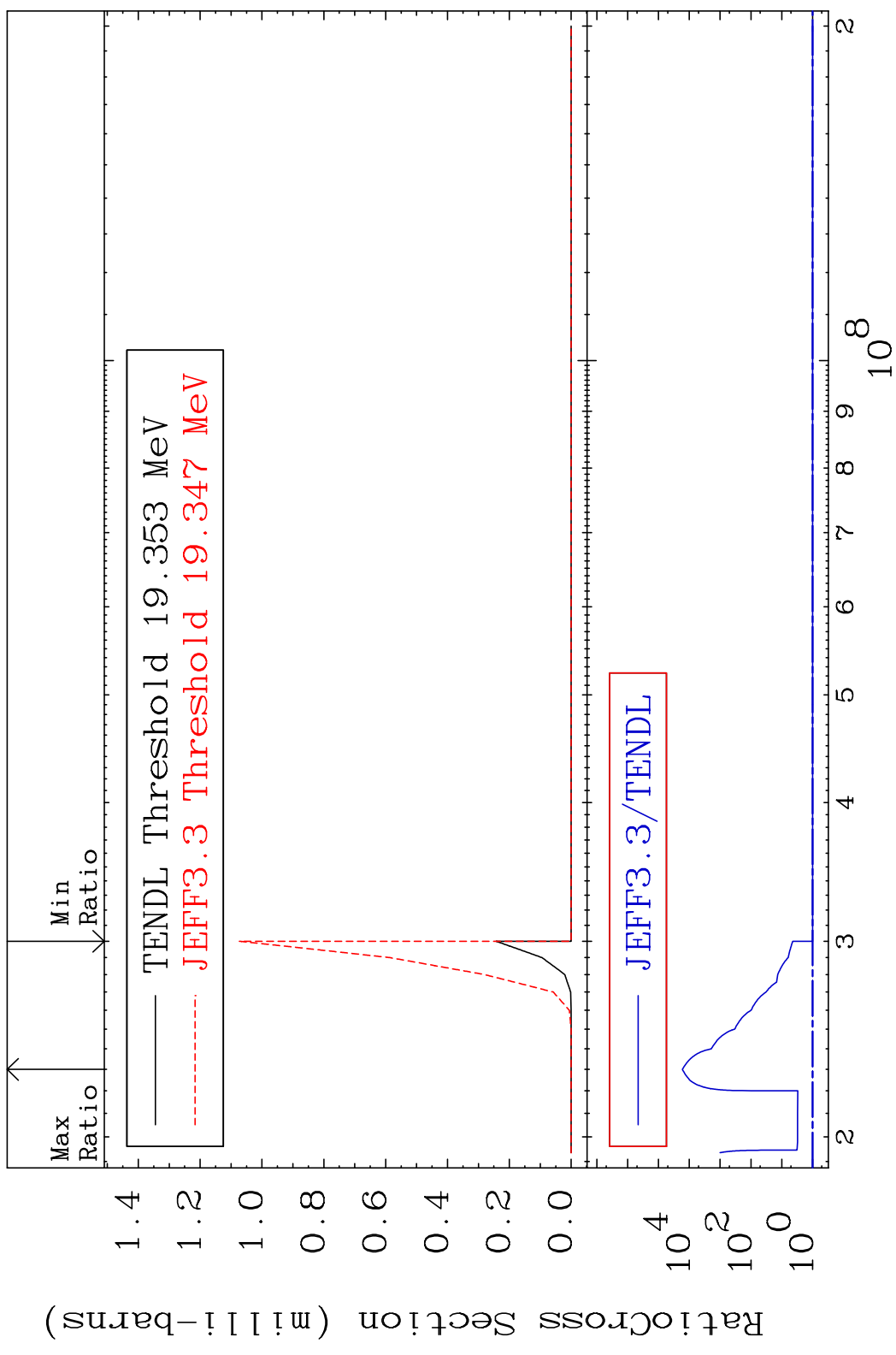


MAT 4319

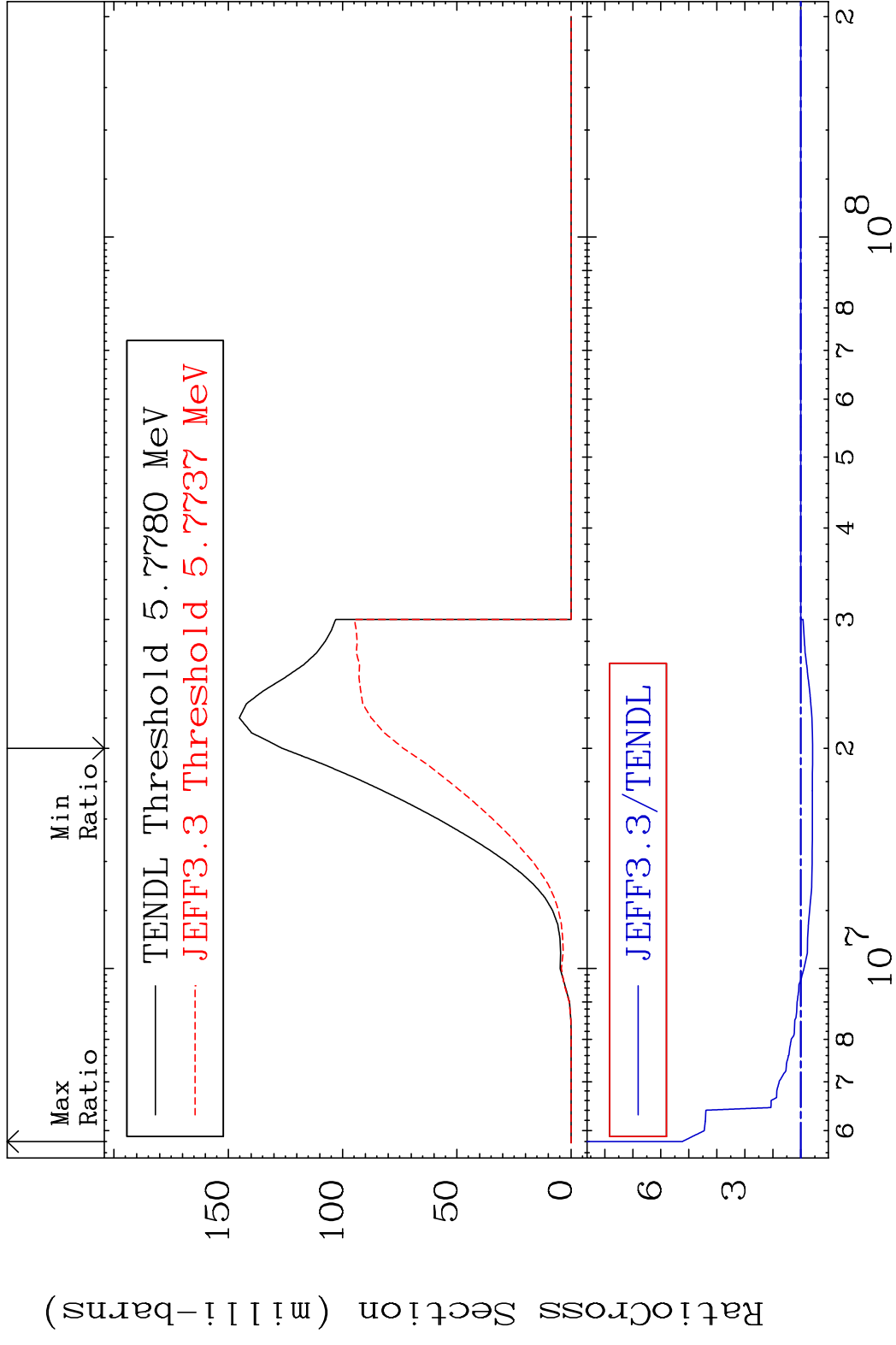
(n,3n)  $\alpha$

43-Tc-97

Cross Section 0.000 To 9999. %

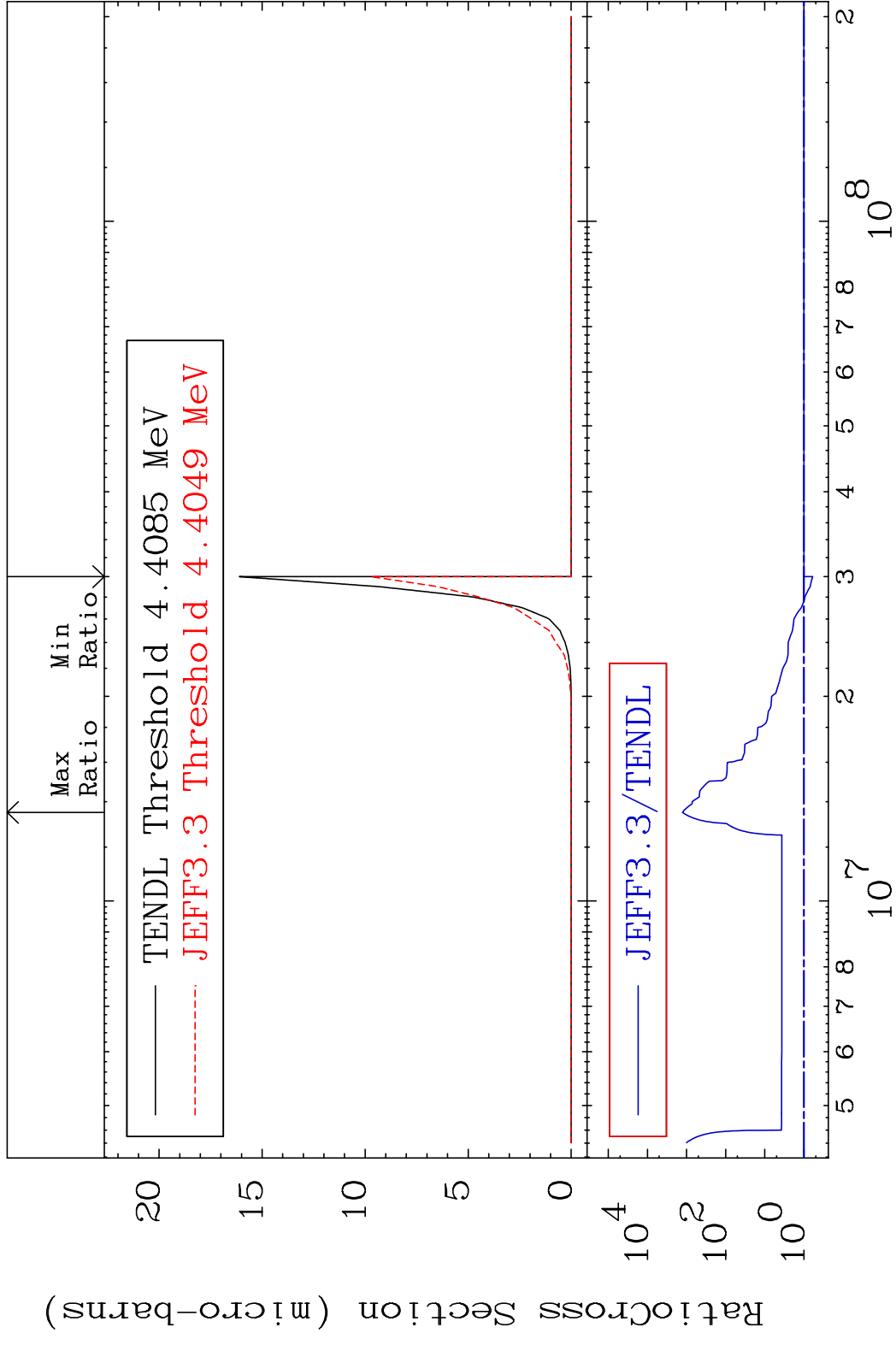


MAT 4319 (n, n') p 43-Tc-97  
 Cross Section -41.92 To 423.1 %



10 6 7 8 10<sup>7</sup> 2 3 4 5 6 7 8 10<sup>8</sup> 2 43-Tc-97

MAT 4319 (n, n') 2α 43-Tc-97  
 Cross Section -39.72 To 9999. %

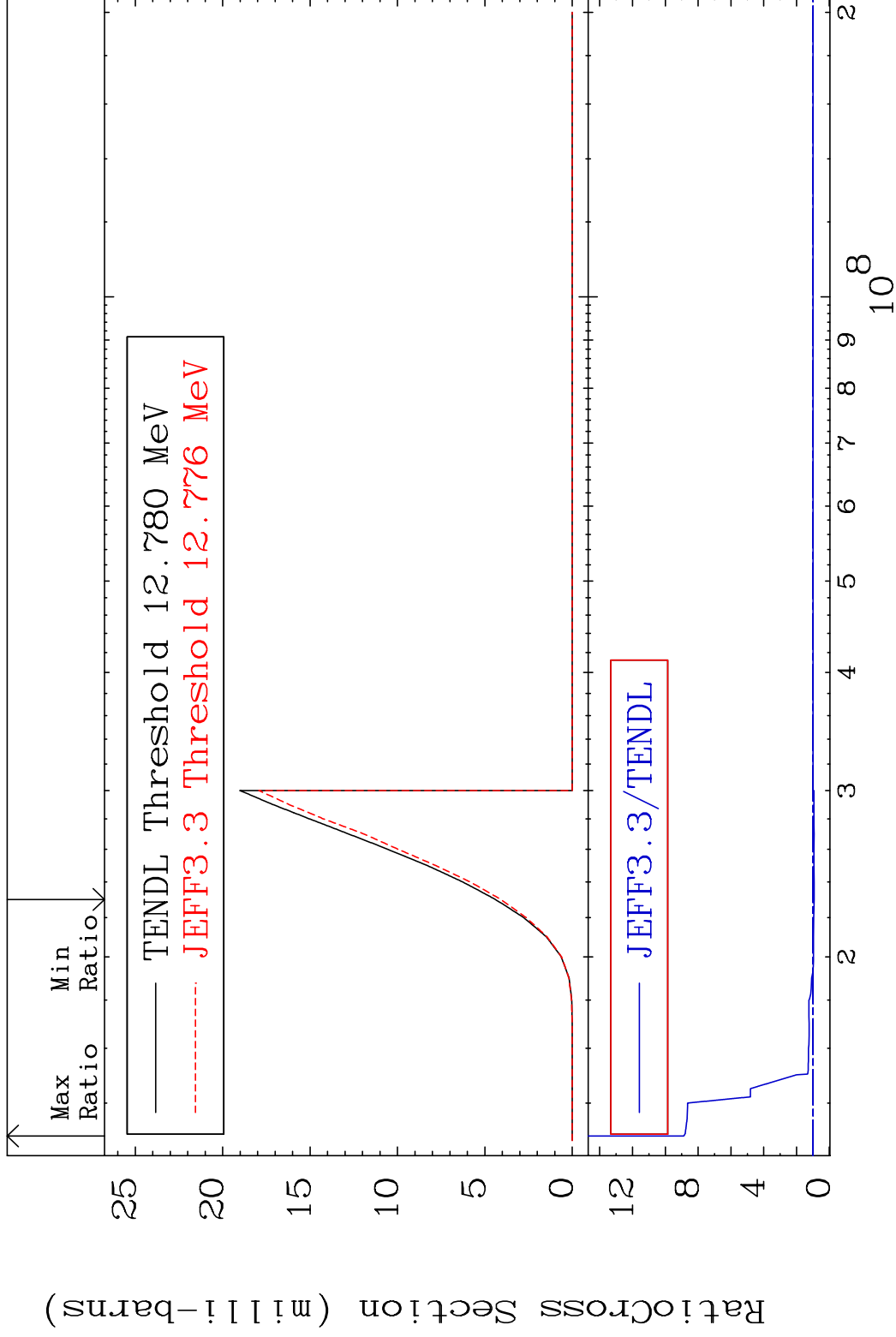


MAT 4319

(n, n') d

43-Tc-97

Cross Section -7.086 To 788.2 %



12

Incident Energy (eV)

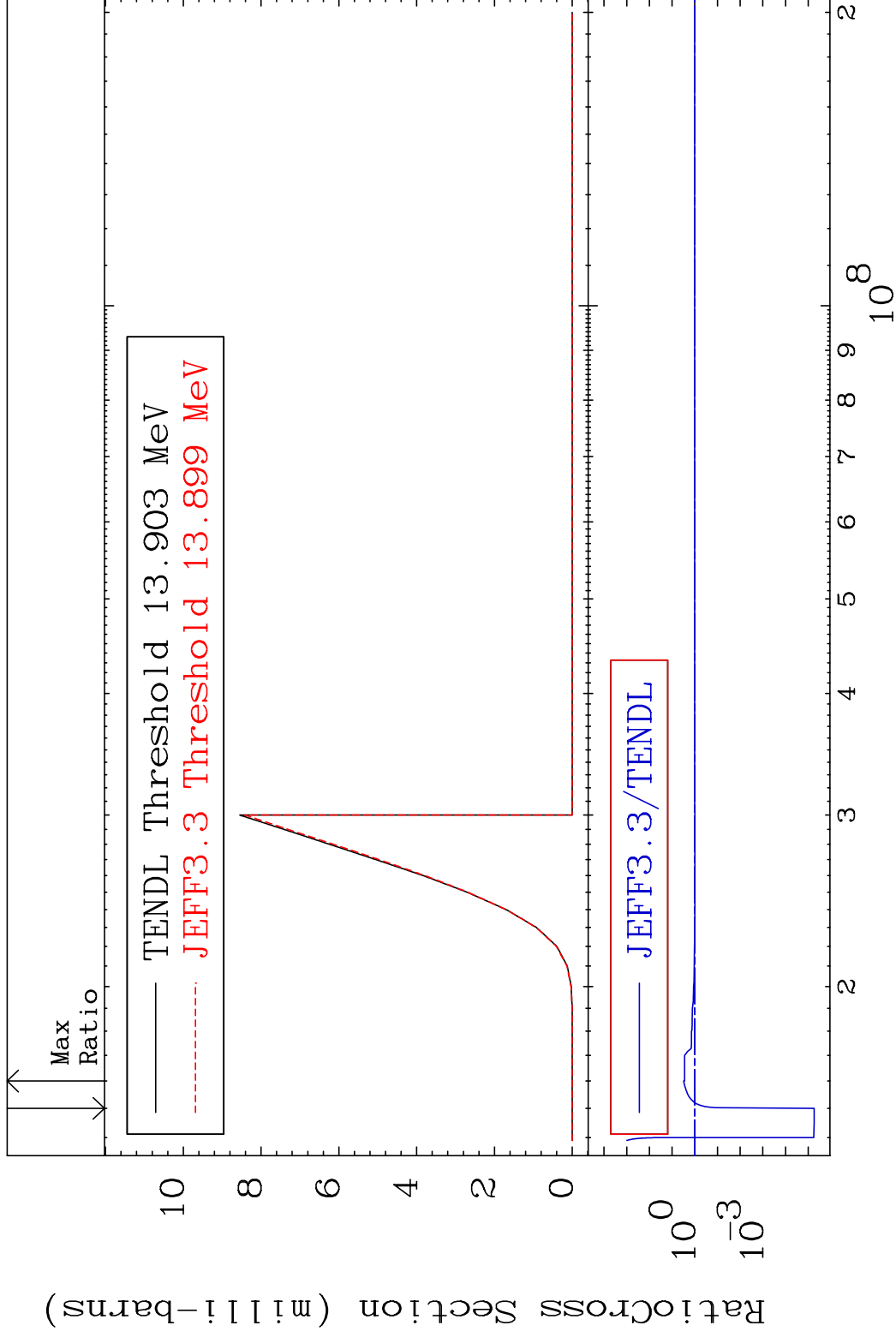
43-Tc-97

MAT 4319

(n, n') t

43-Tc-97

Cross Section -100.0 To 208.8 %

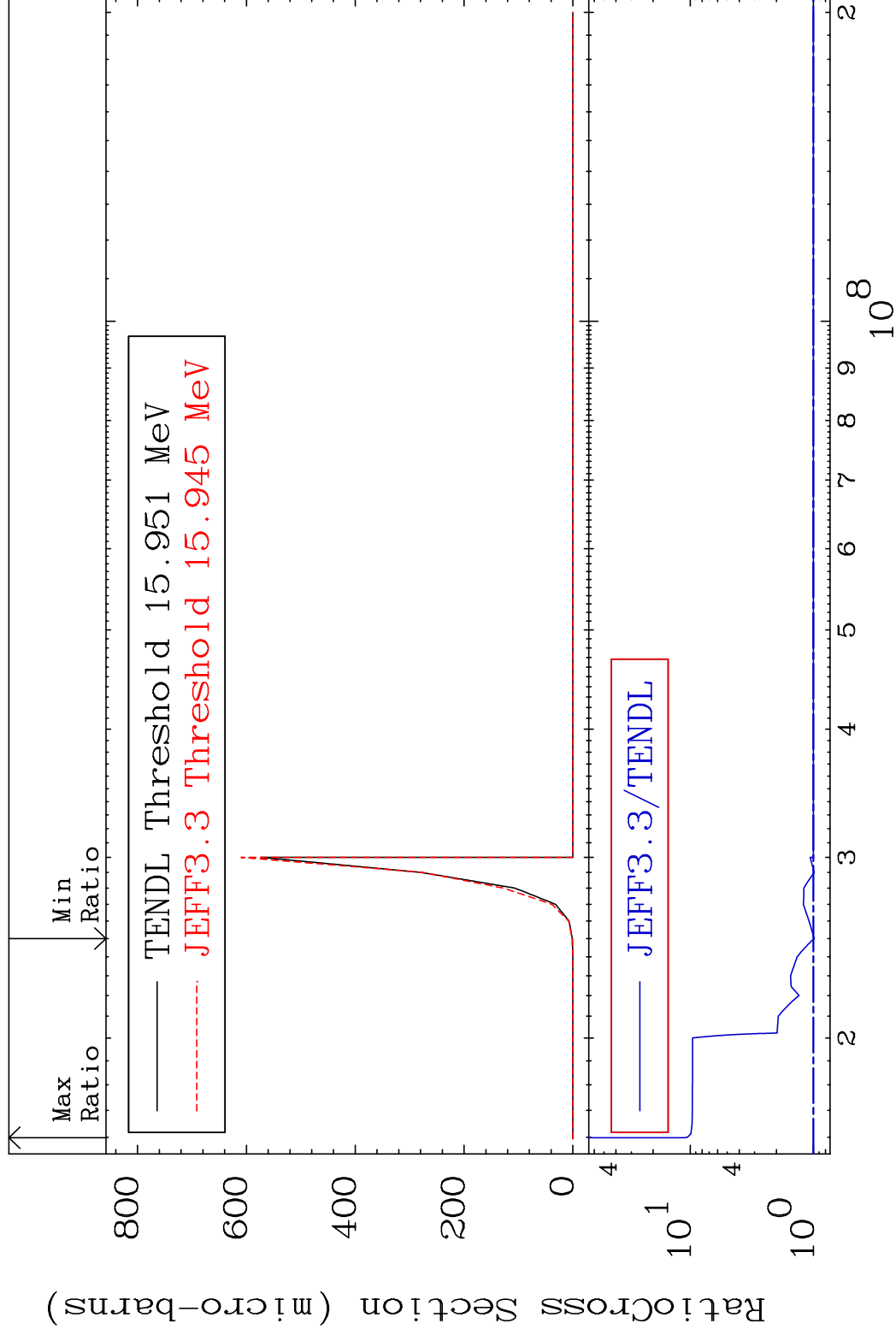


MAT 4319

(n,n') He-3

43-Tc-97

Cross Section -1.475 To 1021. %

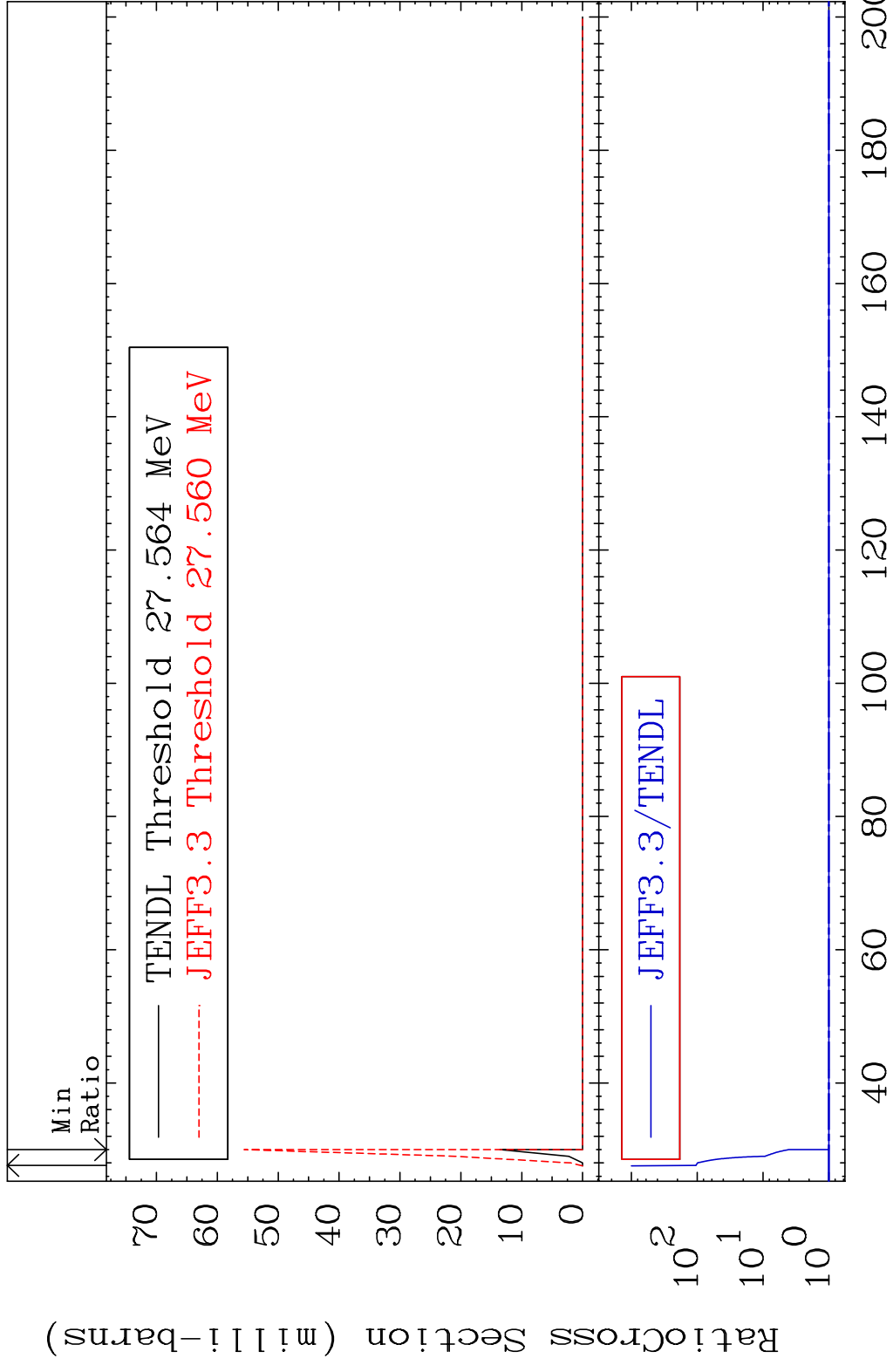


14

Incident Energy (eV)

43-Tc-97

MAT 4319 (n,4n) 43-Tc-97  
 Cross Section 0.000 To 9999. %

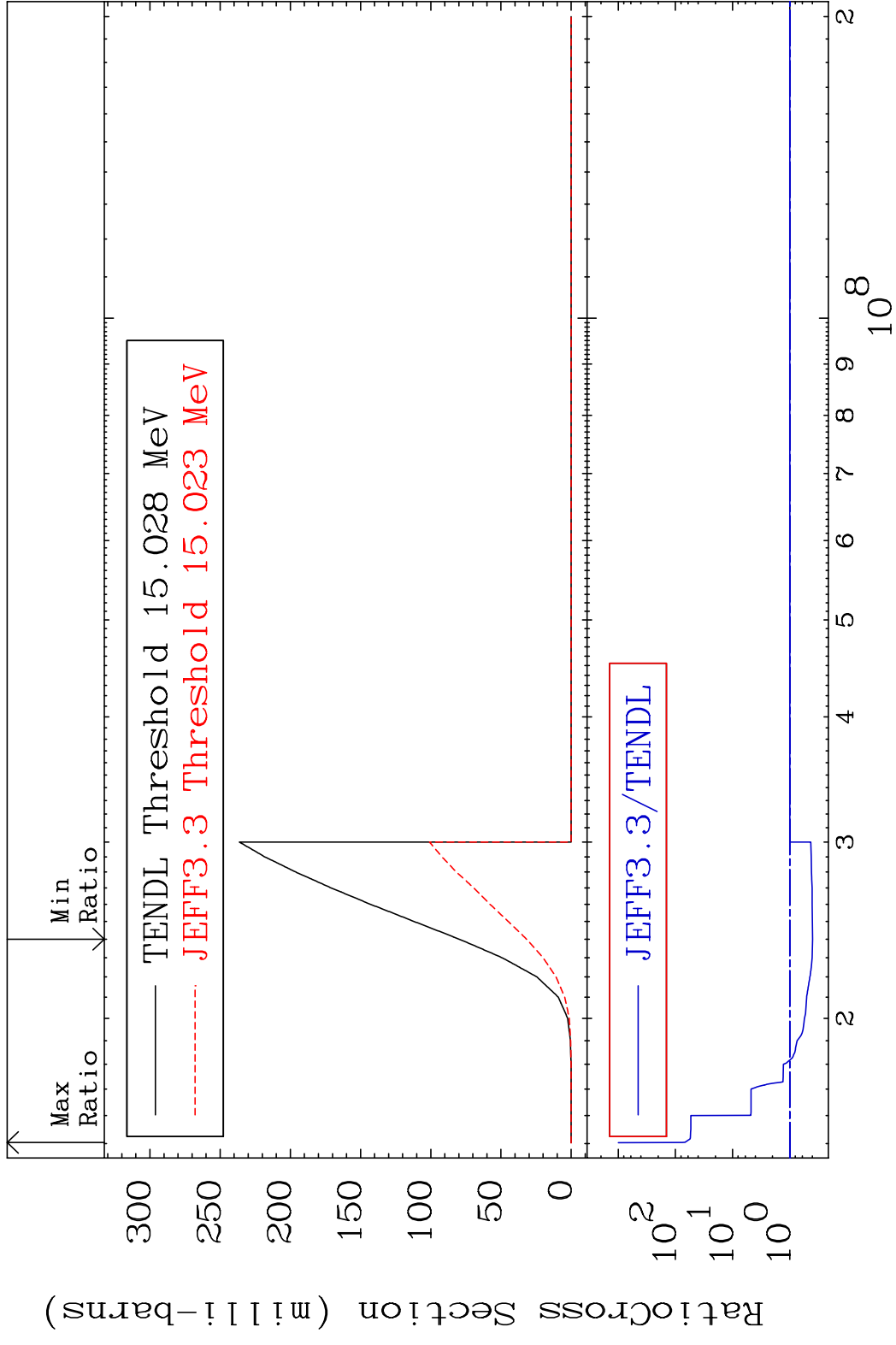


MAT 4319

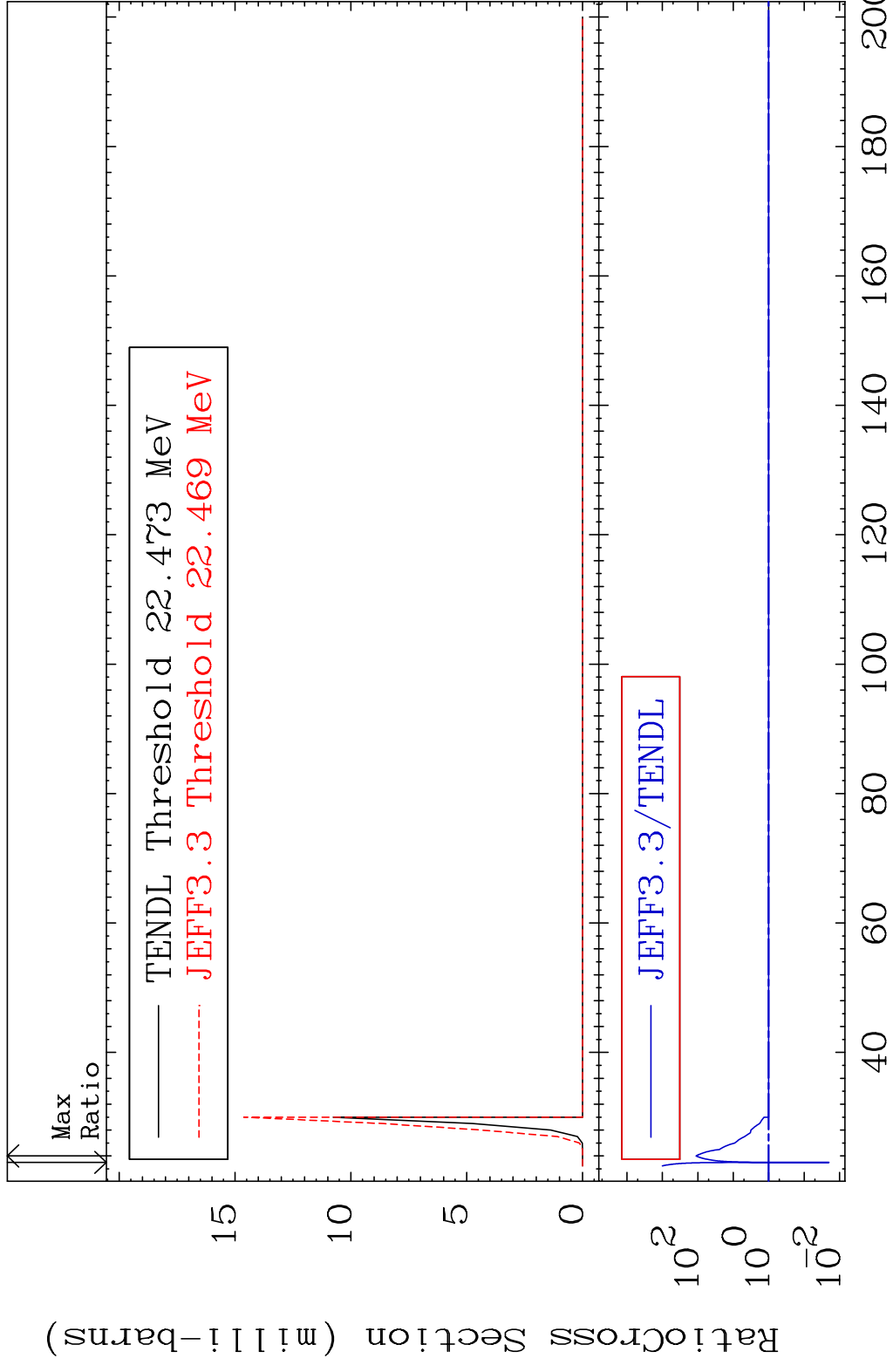
(n,2n) p

43-Tc-97

Cross Section -60.12 To 7453. %



MAT 4319 (n,3n) p 43-Tc-97  
 Cross Section -97.98 To 9999. %

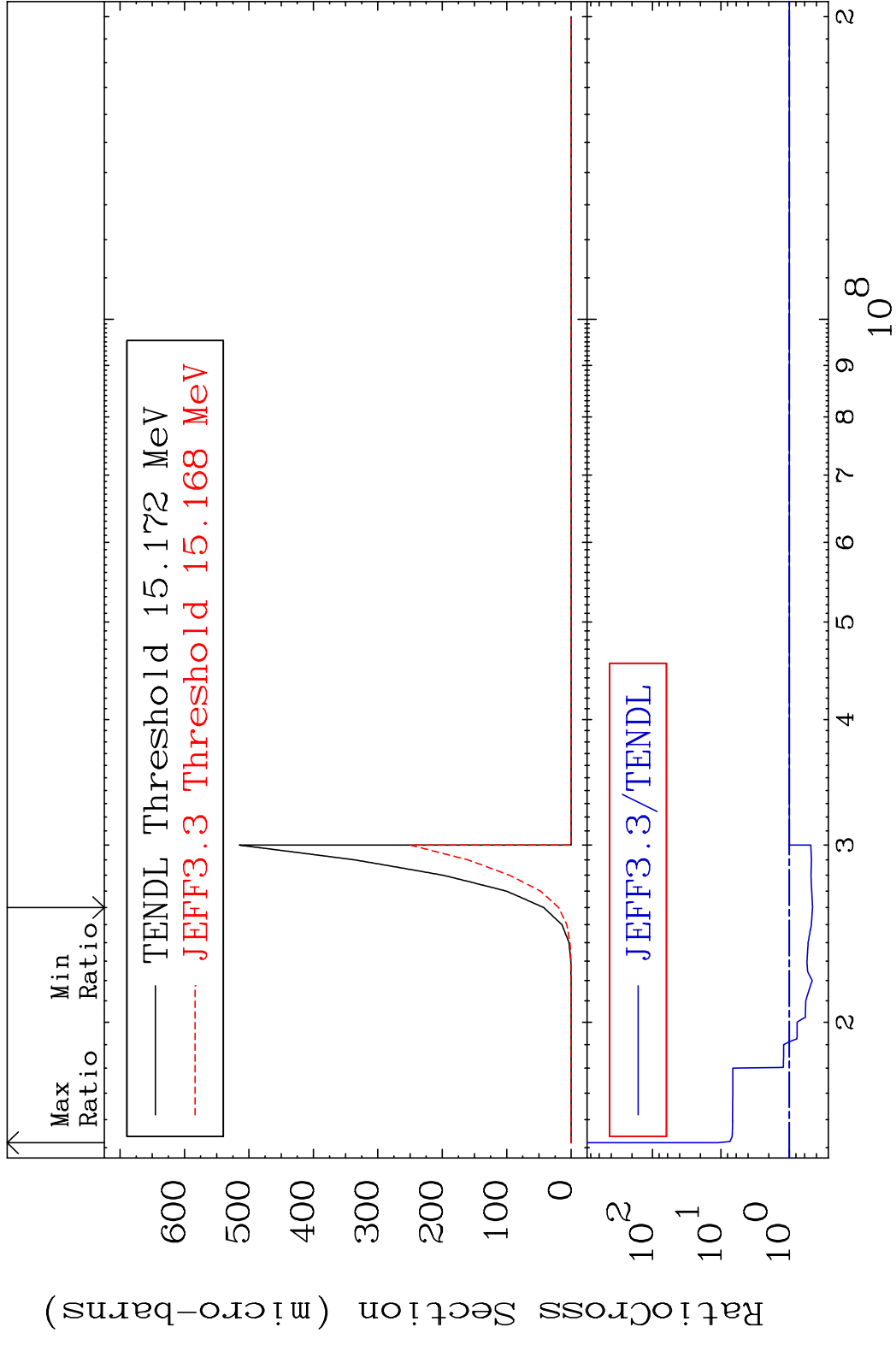


MAT 4319

(n,2n) p

43-Tc-97

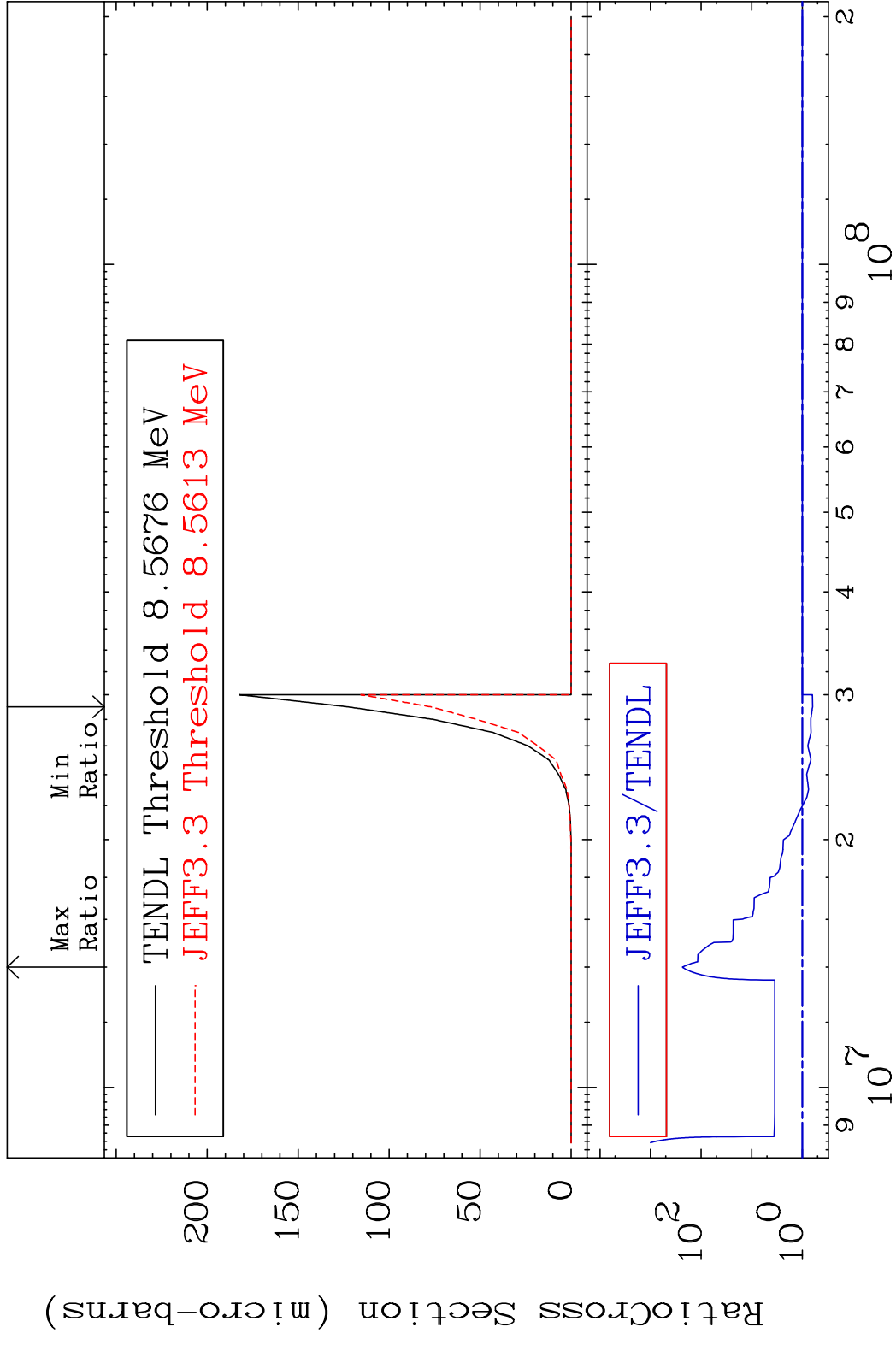
Cross Section -54.19 To 3561. %



MAT 4319

(n, n') p  $\alpha$   
Cross Section -37.21 To 9999. %

43-Tc-97

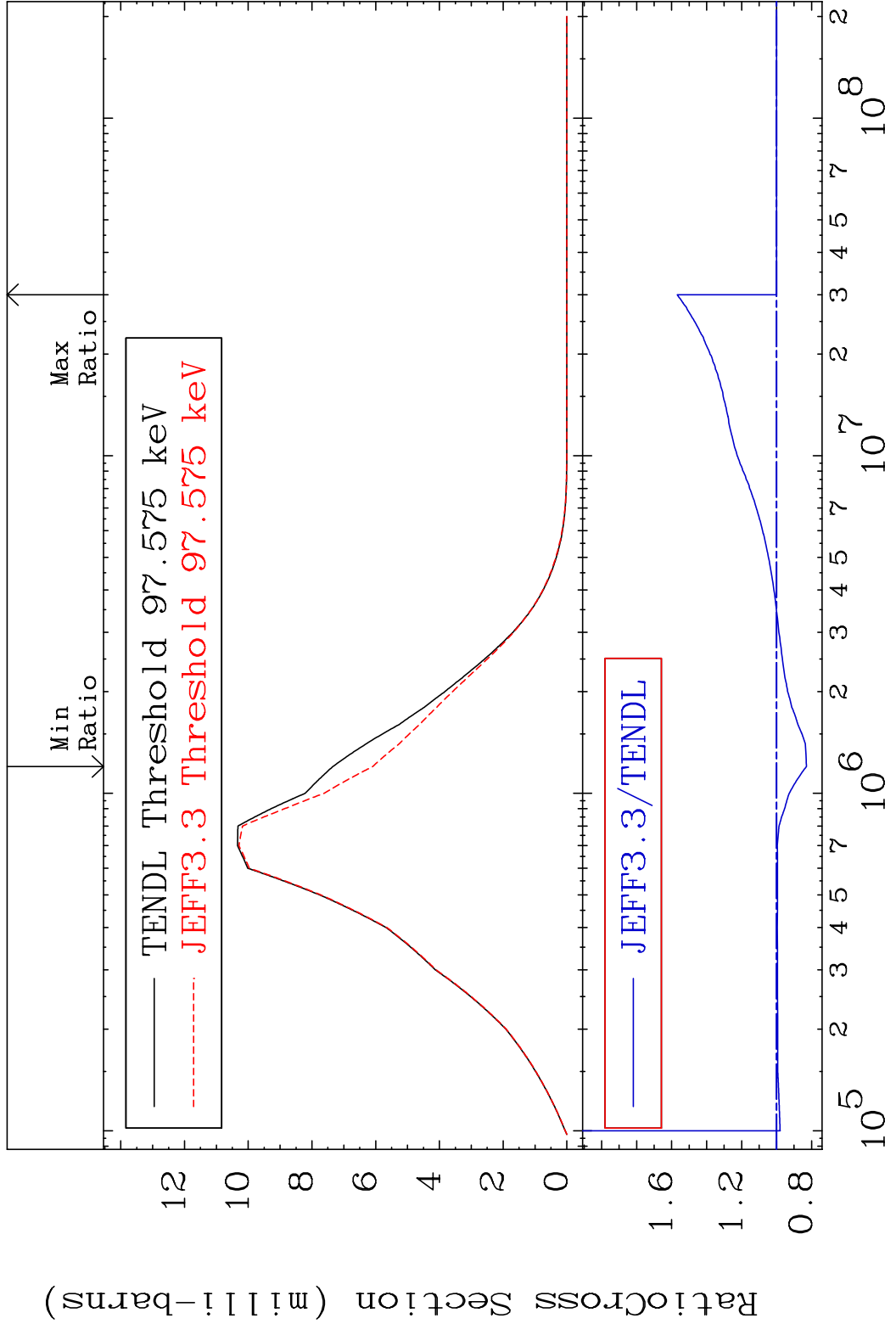


19

Incident Energy (eV)

43-Tc-97

MAT 4319 MT= 51 (n,n') Level 43-Tc-97  
 Cross Section -17.04 To 56.83 %



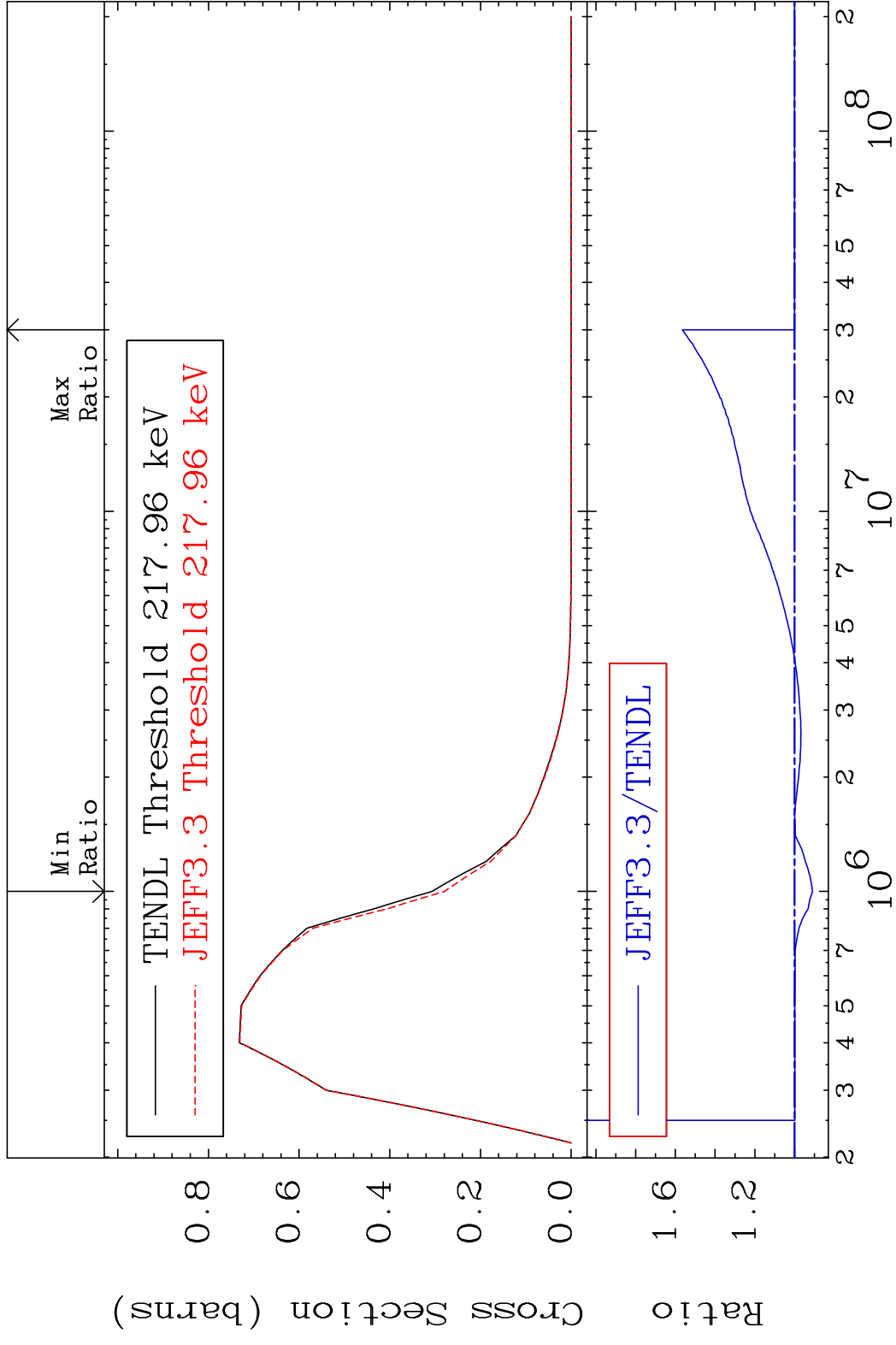
20 Incident Energy (eV) 43-Tc-97

MAT 4319

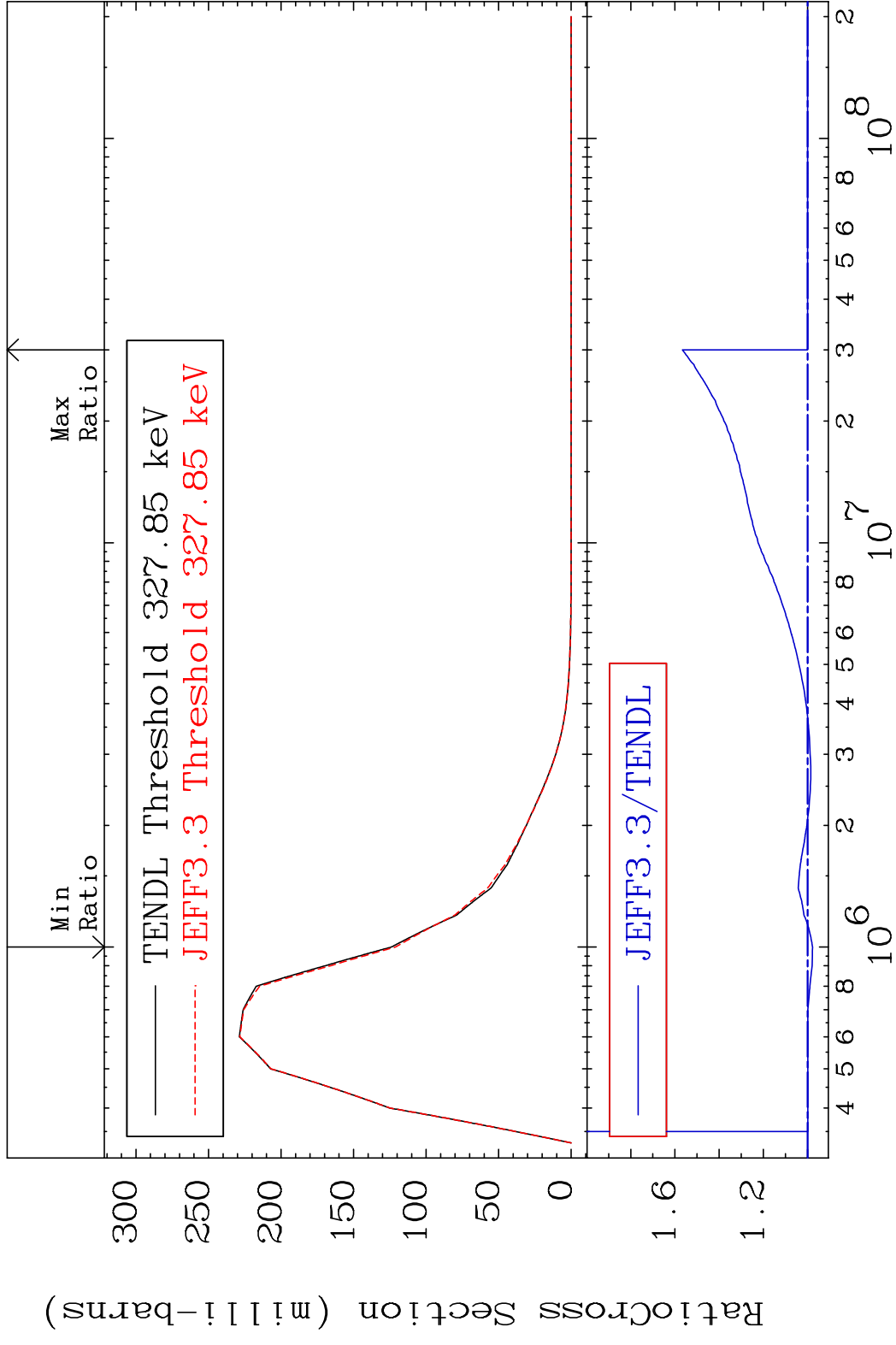
MT= 52 (n, n') Level

43-Tc-97

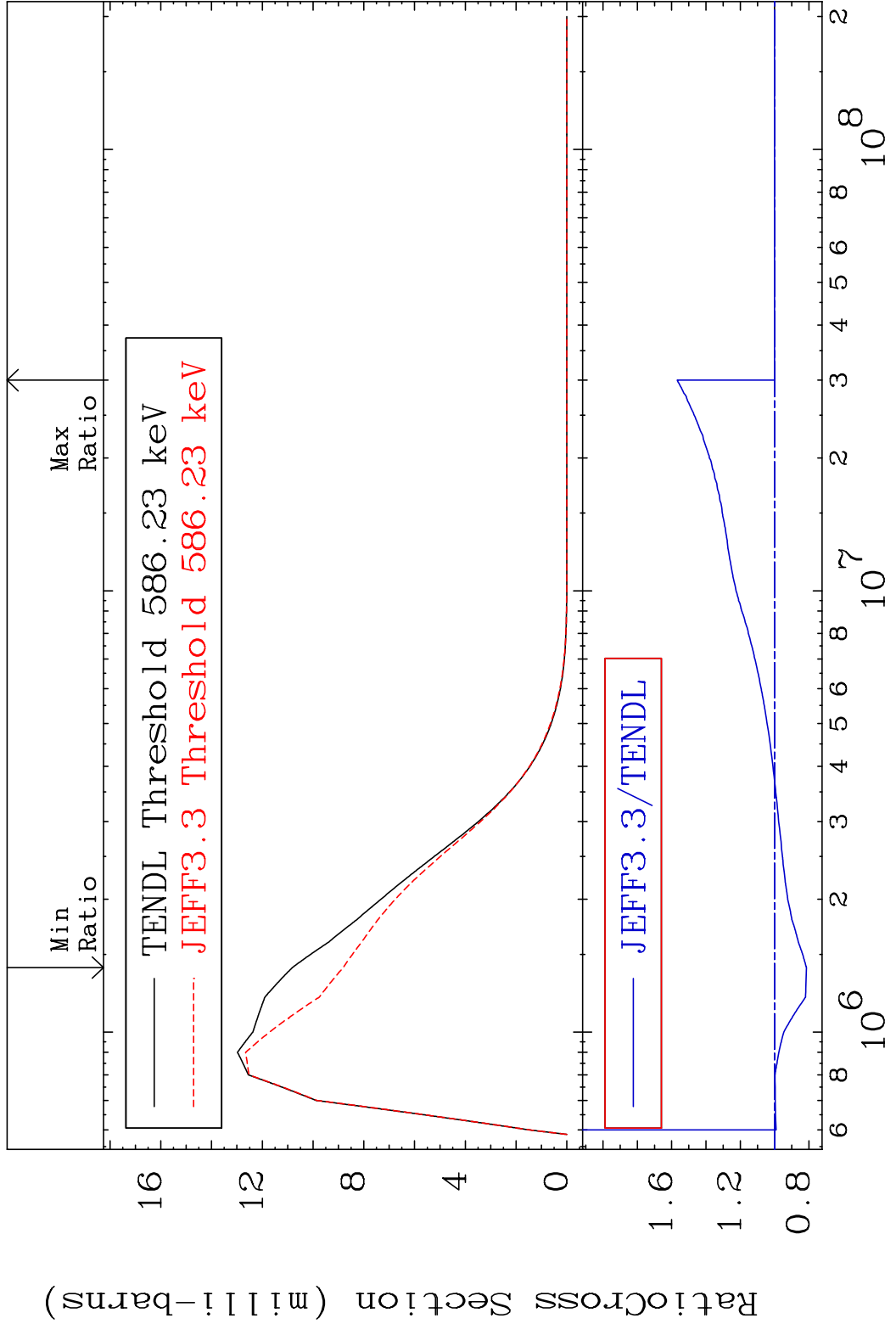
Cross Section -9.047 To 56.48 %



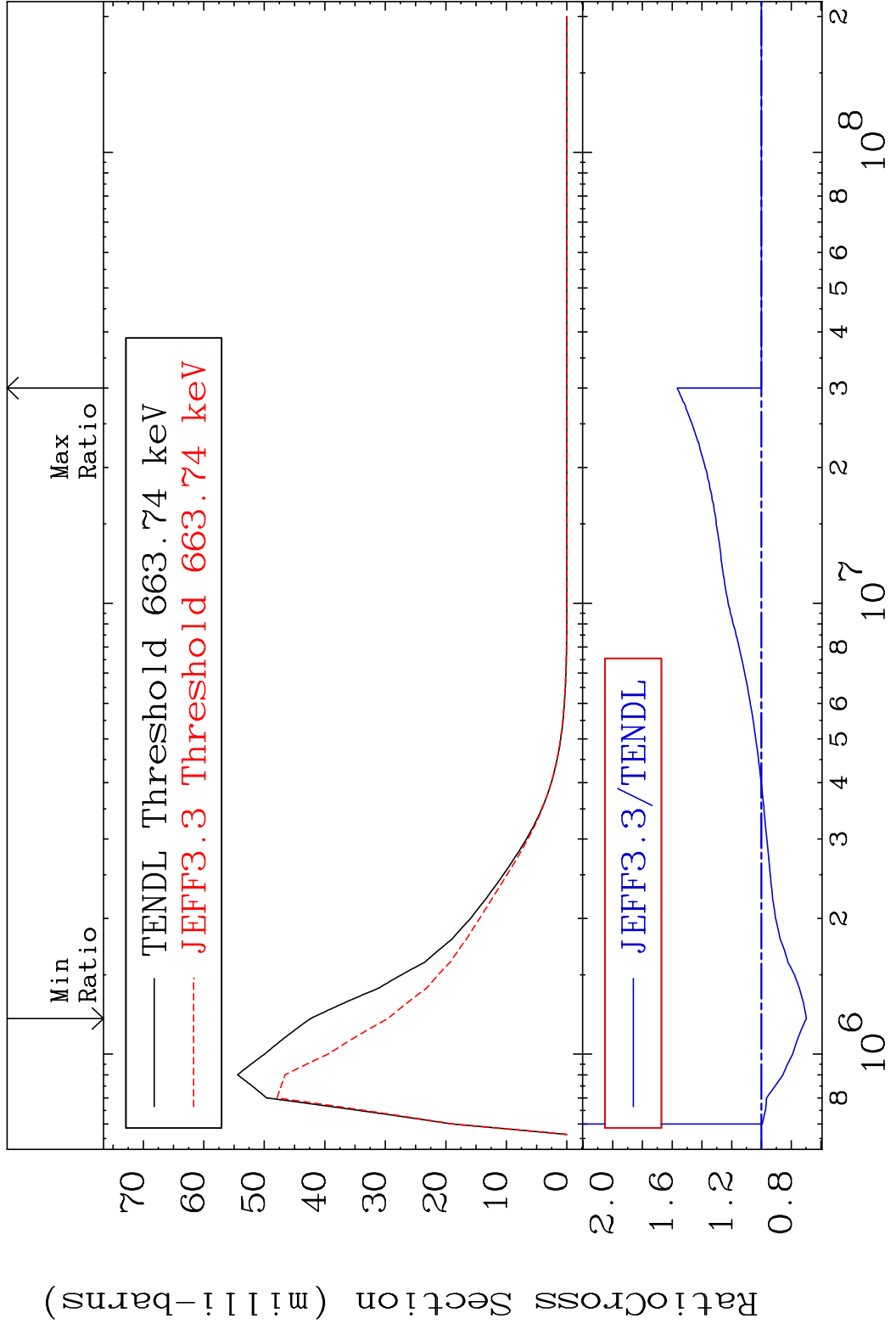
MAT 4319 MT= 53 (n,n') Level 43-Tc-97  
 Cross Section -2.283 To 56.64 %



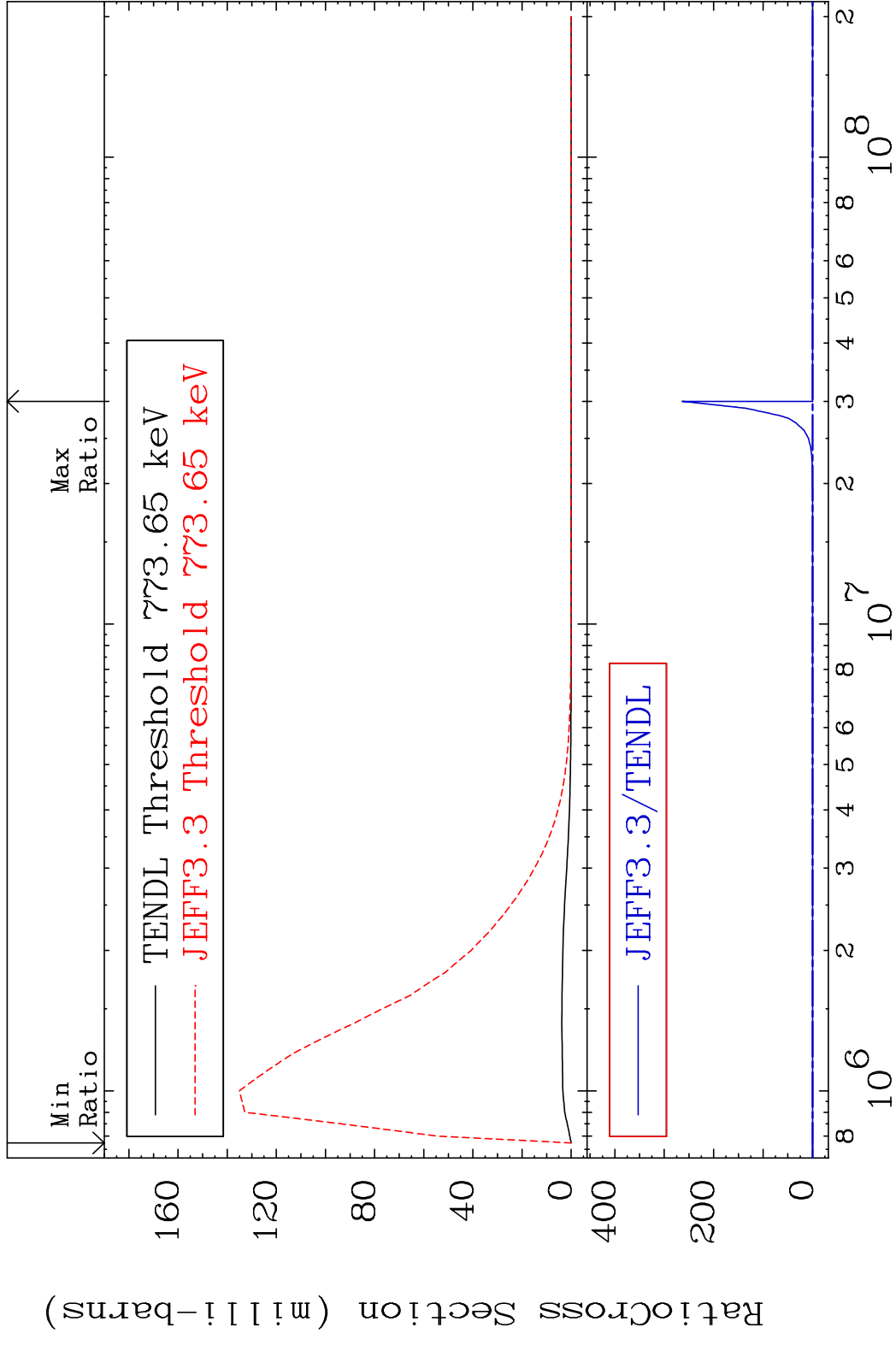
MAT 4319 MT= 54 (n,n') Level 43-Tc-97  
 Cross Section -18.51 To 56.77 %



MAT 4319 MT= 55 (n, n') Level 43-Tc-97  
 Cross Section -30.23 To 56.66 %



MAT 4319 MT= 56 (n,n') Level 43-Tc-97  
Cross Section -100.0 To 9999. %



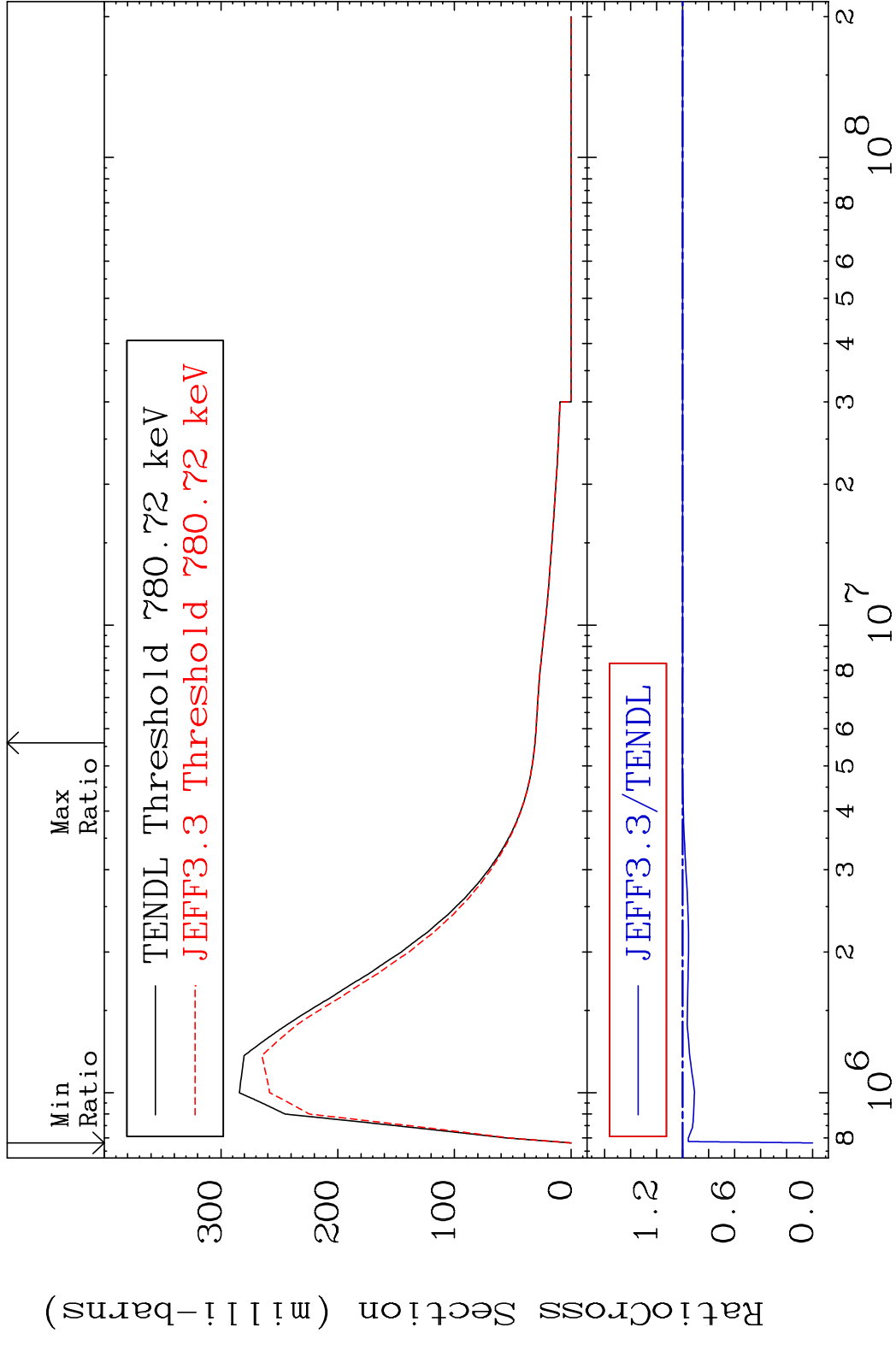
25 Incident Energy (eV) 43-Tc-97

MAT 4319

MT= 57 (n, n') Level

43-Tc-97

Cross Section -100.0 To 0.178 %

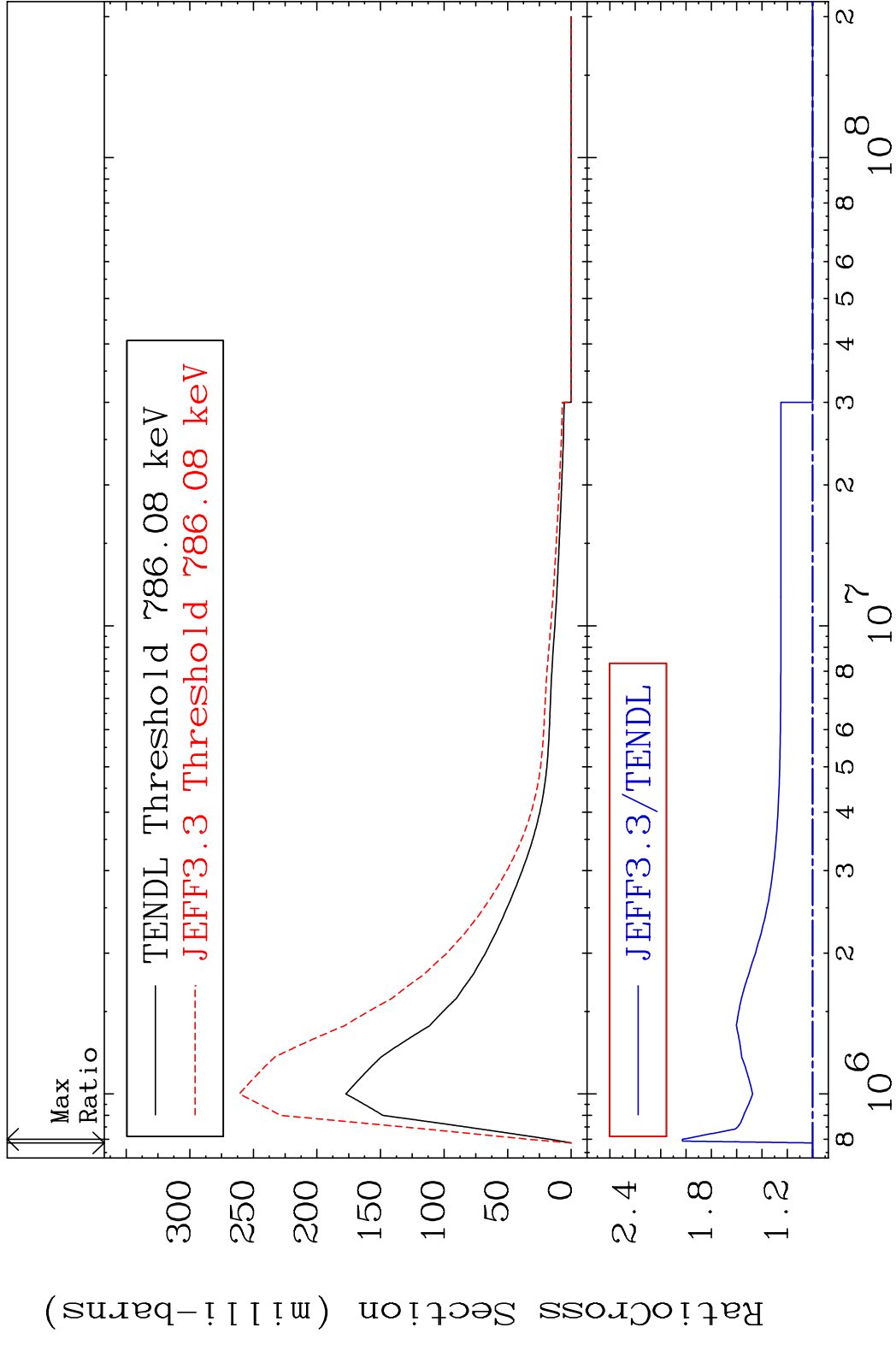


26

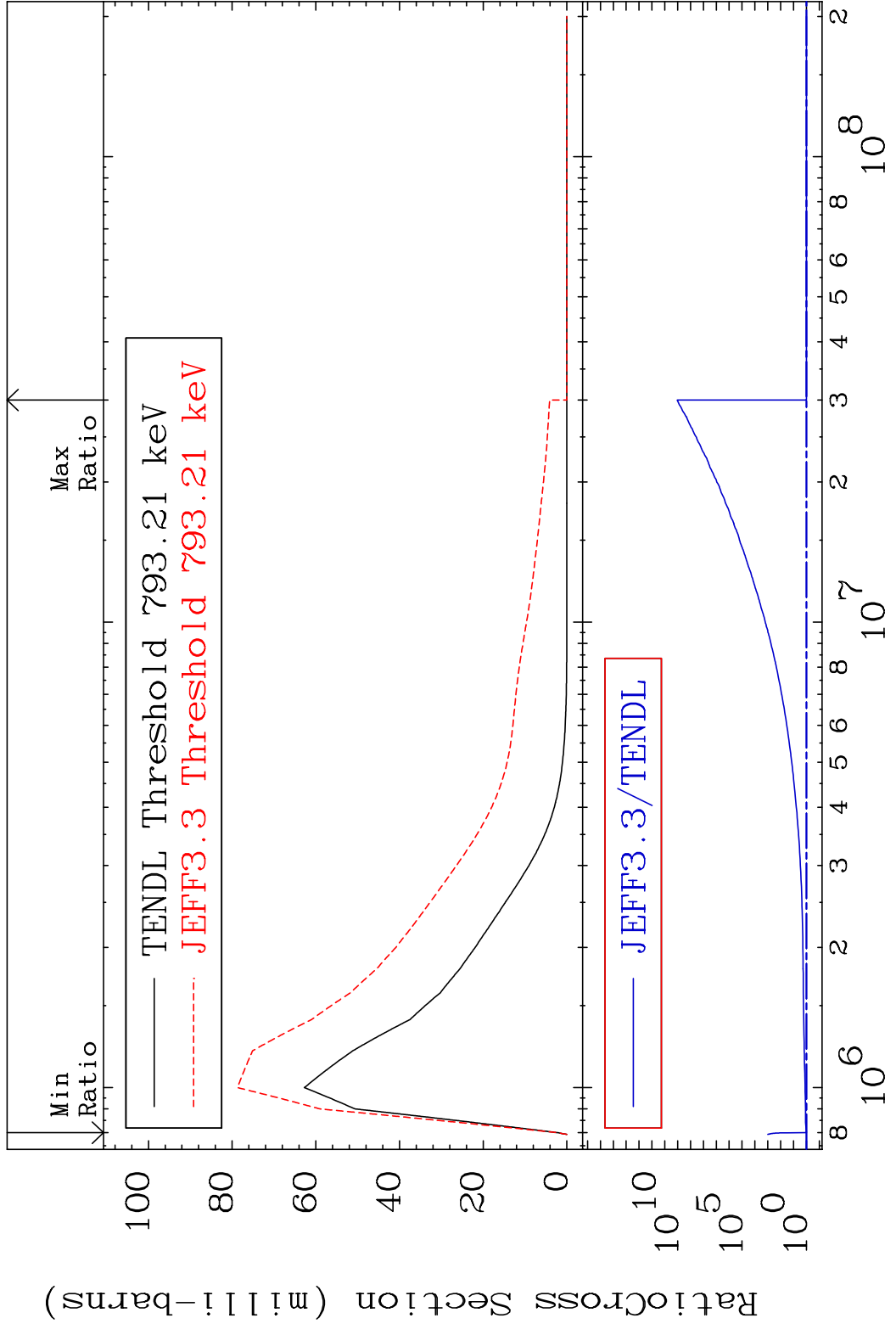
Incident Energy (eV)

43-Tc-97

MAT 4319 MT= 58 (n,n') Level 43-Tc-97  
 Cross Section 0.000 To 102.8 %

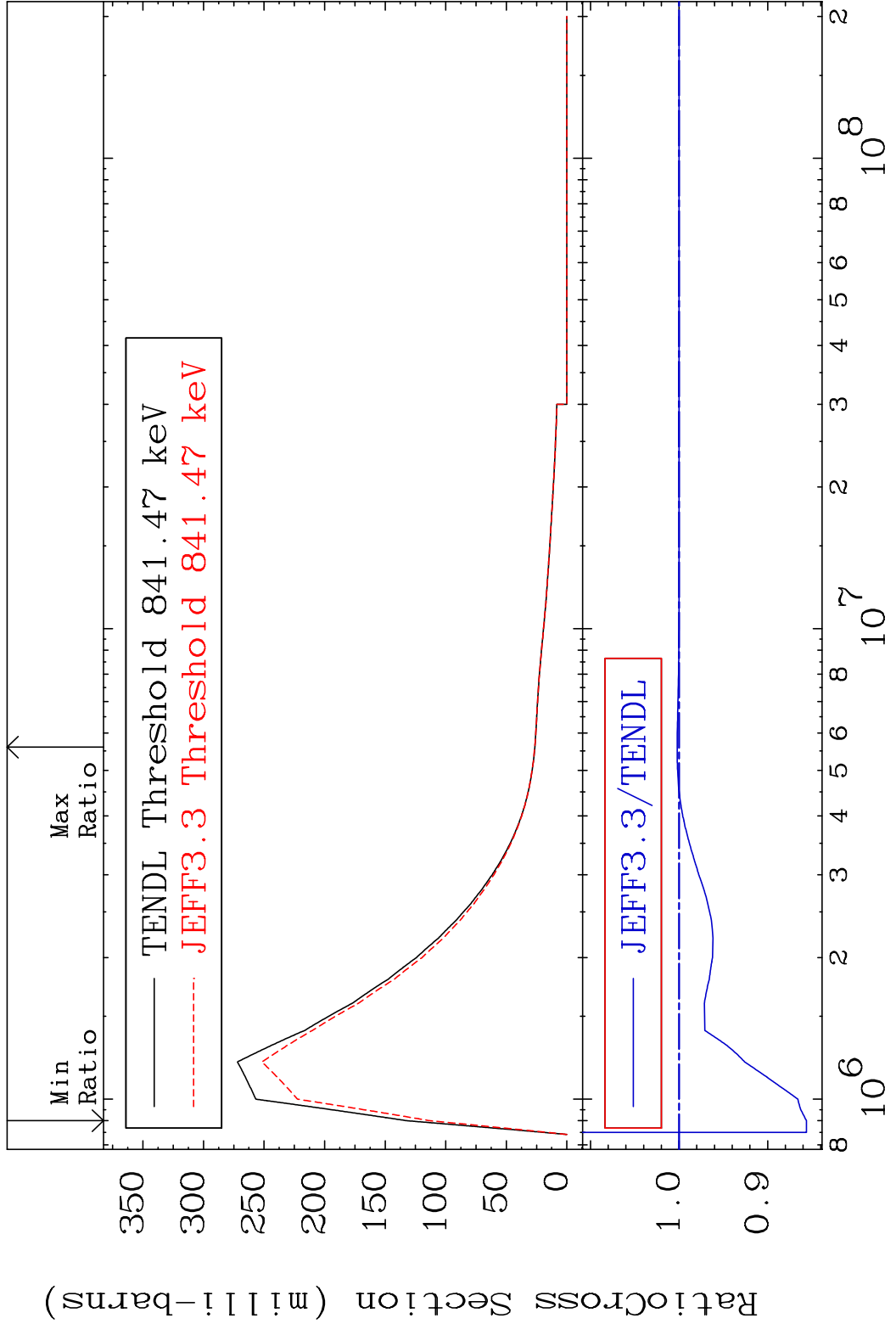


MAT 4319 MT= 59 (n, n') Level 43-Tc-97  
 Cross Section -0.543 To 9999. %



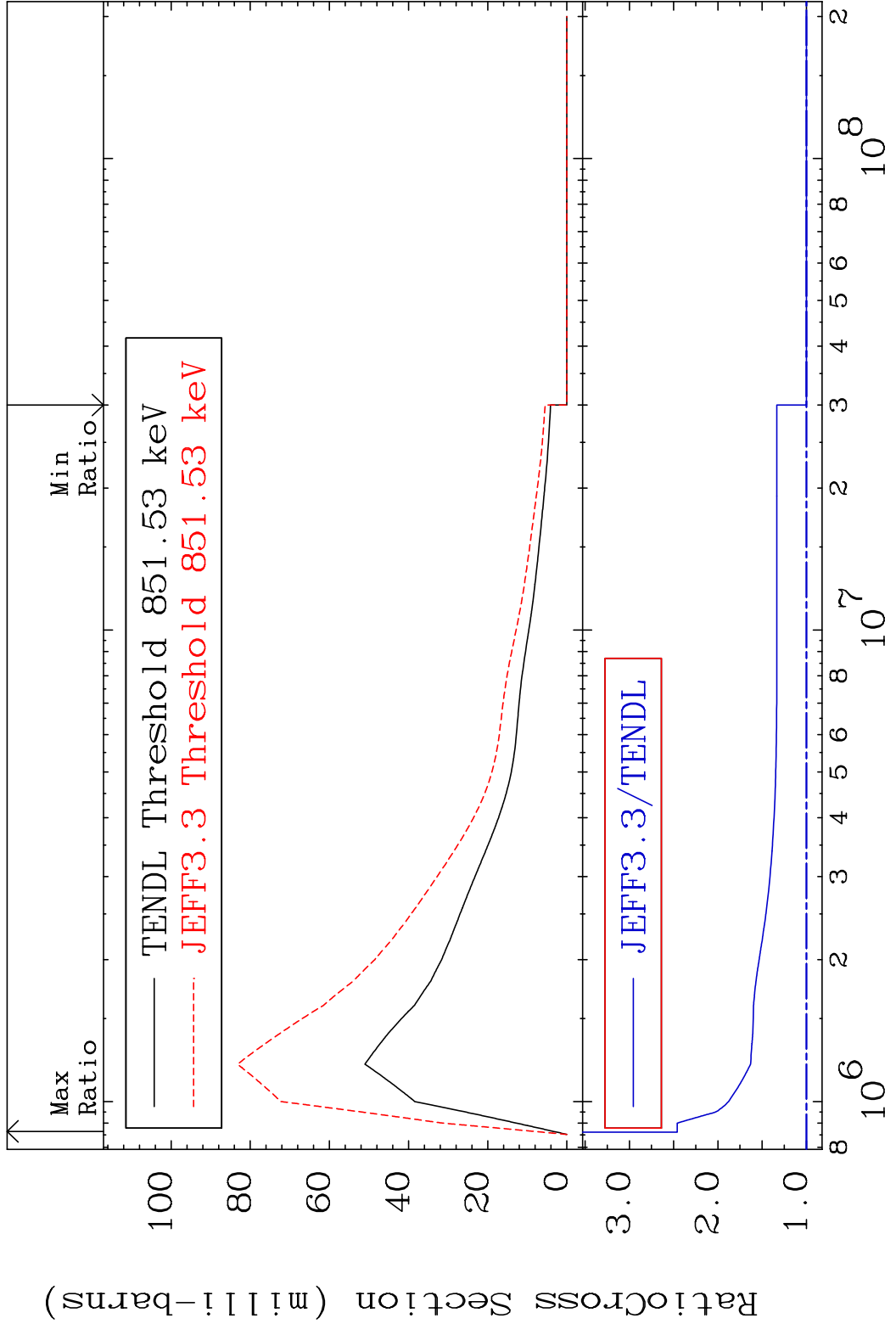
28 Incident Energy (eV) 43-Tc-97

MAT 4319 MT= 60 (n,n') Level 43-Tc-97  
 Cross Section -14.38 To 0.213 %



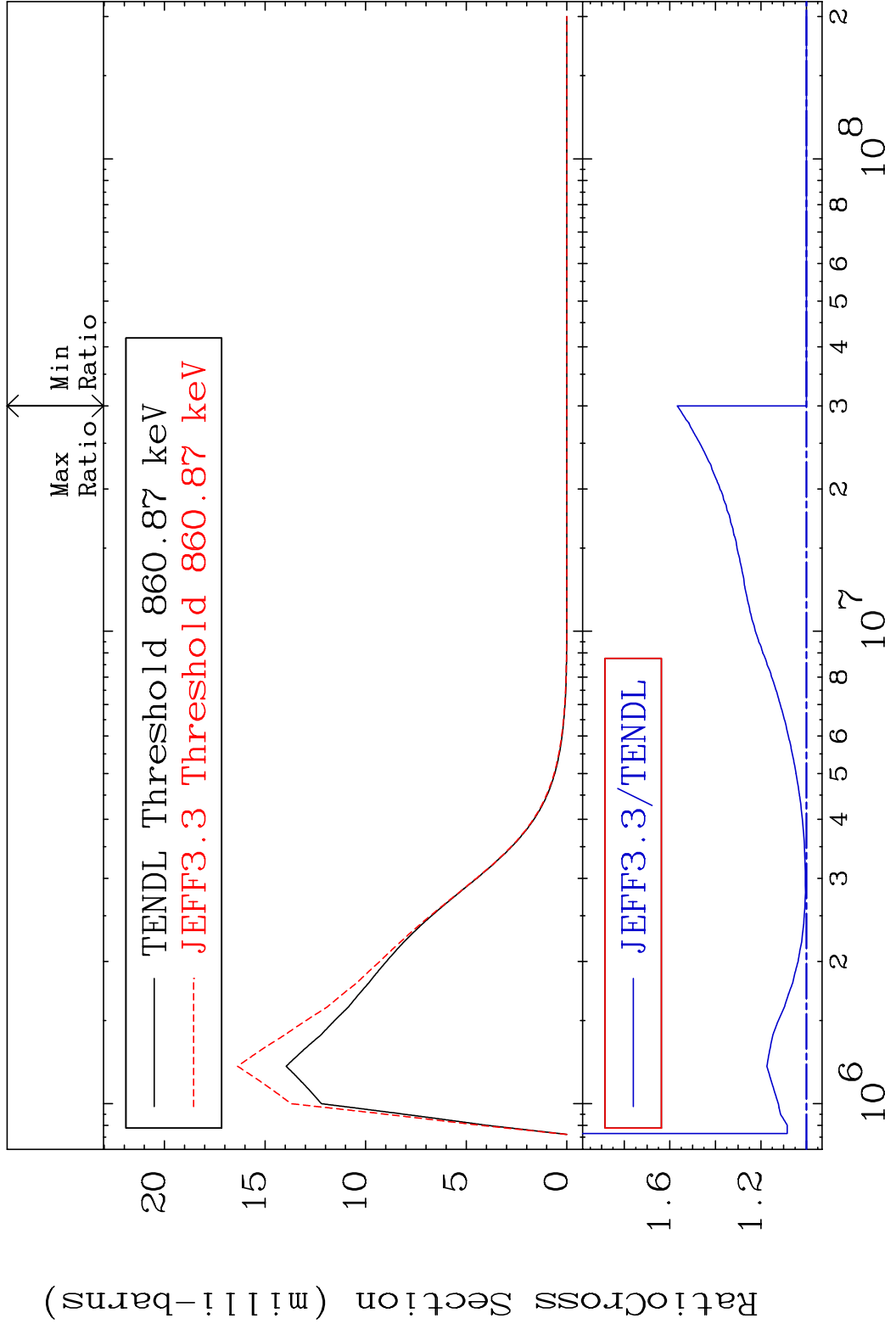
29 Incident Energy (eV) 43-Tc-97

MAT 4319 MT= 61 (n, n') Level 43-Tc-97  
 Cross Section 0.000 To 146.0 %



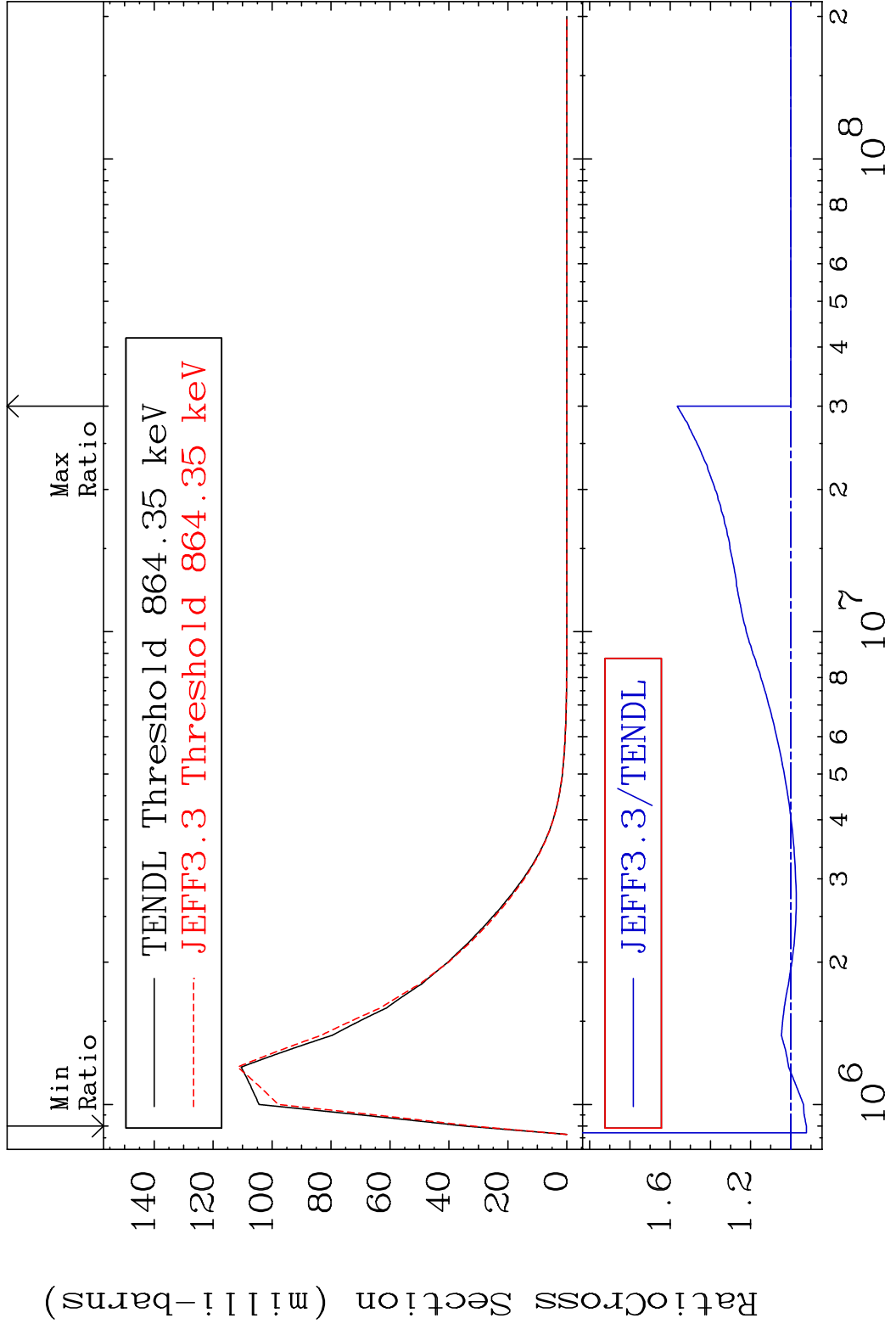
30 Incident Energy (eV) 43-Tc-97

MAT 4319 MT= 62 (n, n') Level 43-Tc-97  
 Cross Section 0.000 To 56.78 %

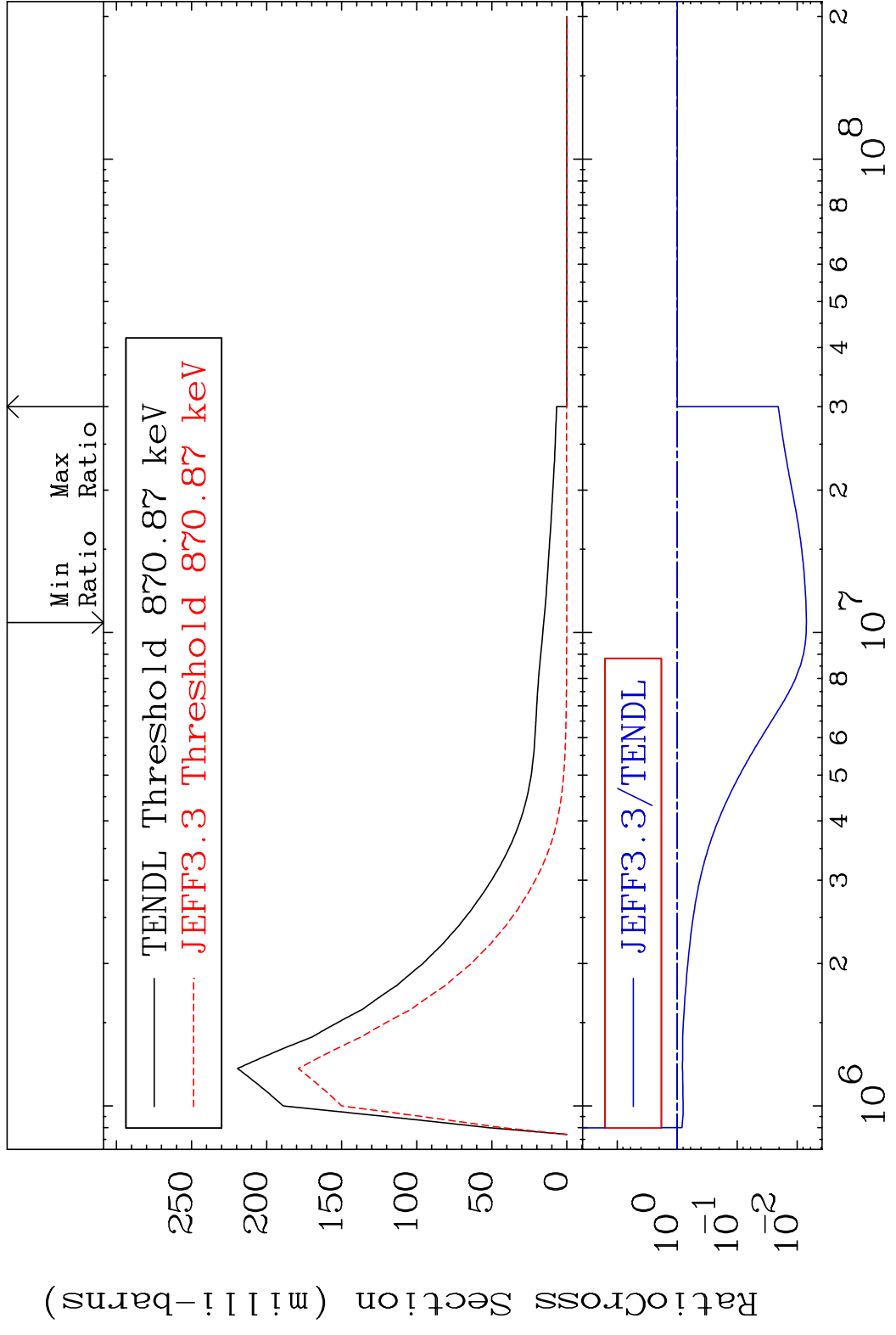


31 Incident Energy (eV) 43-Tc-97

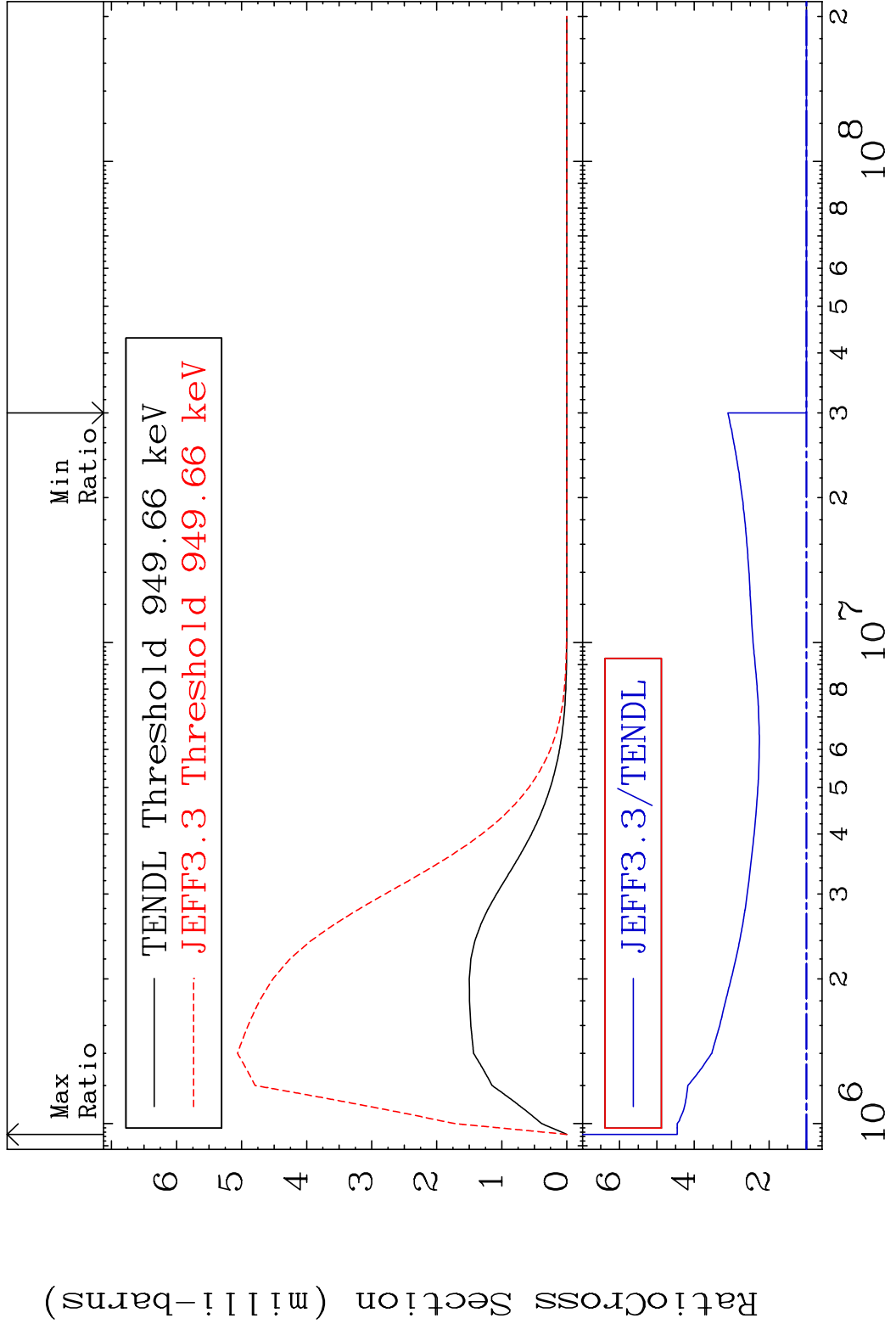
MAT 4319 MT= 63 (n, n') Level 43-Tc-97  
 Cross Section -7.694 To 56.50 %



MAT 4319 MT= 64 (n, n') Level 43-Tc-97  
 Cross Section -99.30 To 0.000 %

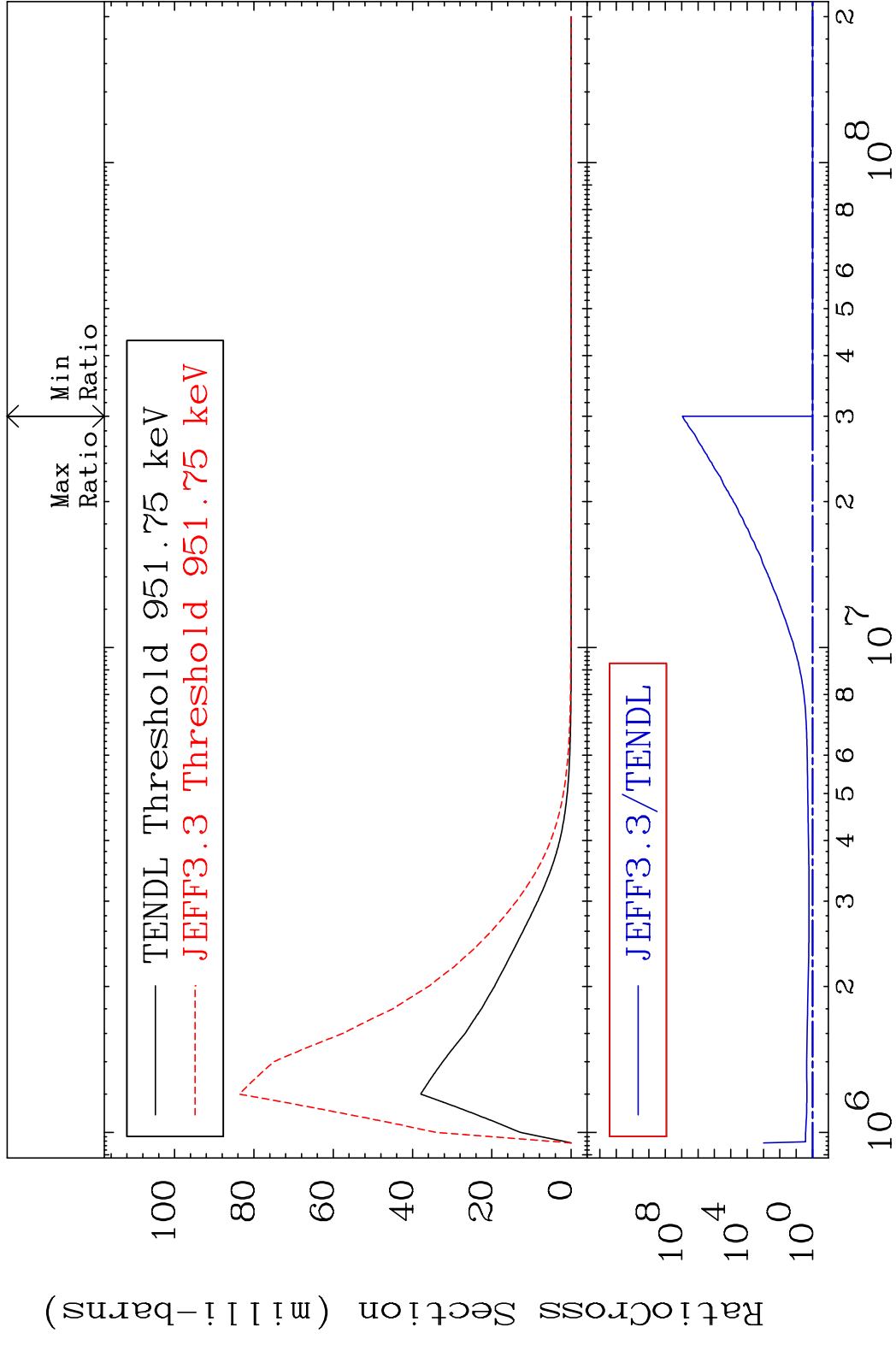


MAT 4319 MT= 65 (n, n') Level 43-Tc-97  
 Cross Section 0.000 To 345.7 %



34 Incident Energy (eV) 43-Tc-97

MAT 4319 MT= 66 (n, n') Level 43-Tc-97  
 Cross Section 0.000 To 9999. %



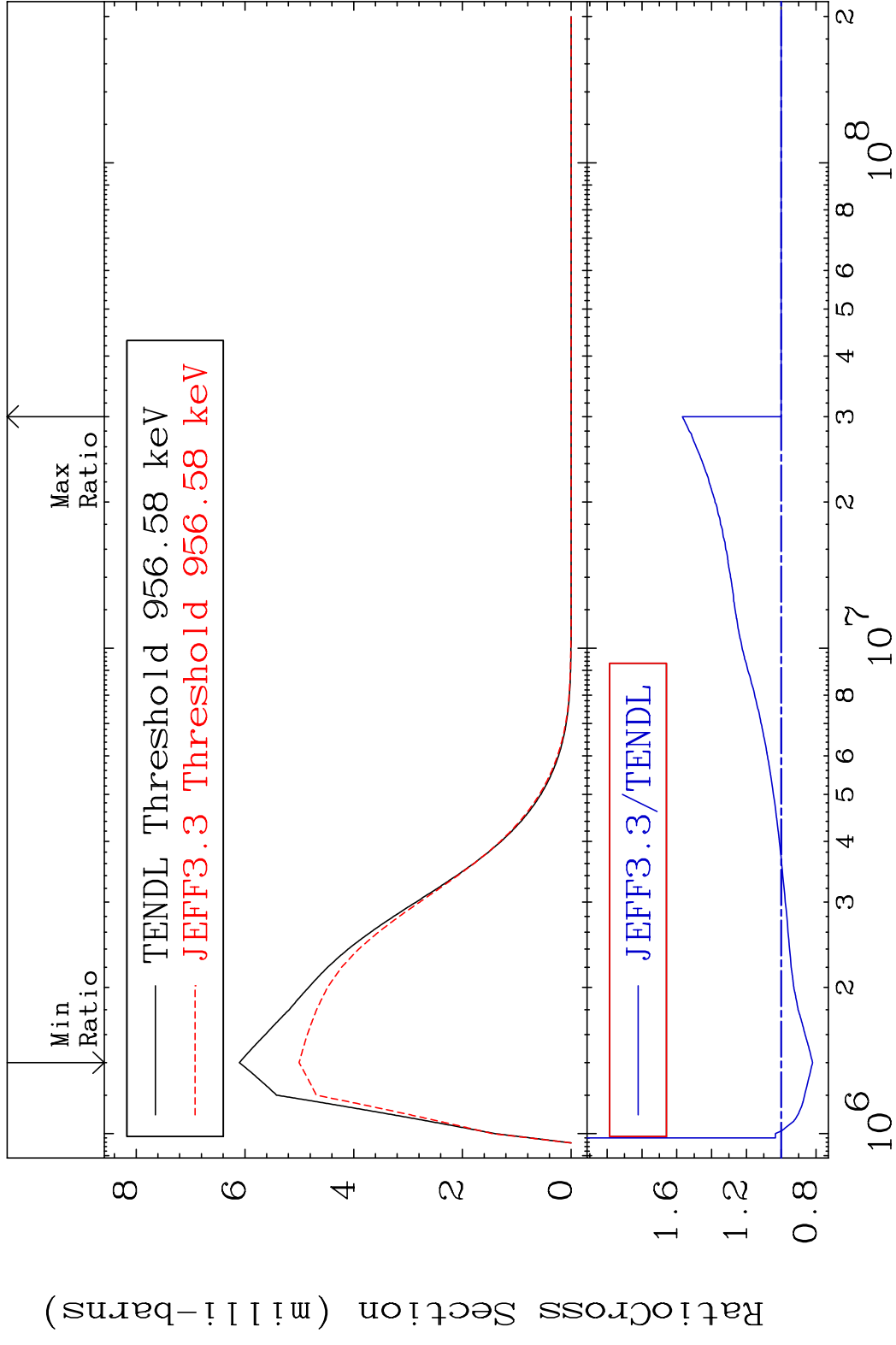
35 Incident Energy (eV) 43-Tc-97

MAT 4319

MT= 67 (n, n') Level

43-Tc-97

Cross Section -18.00 To 56.79 %

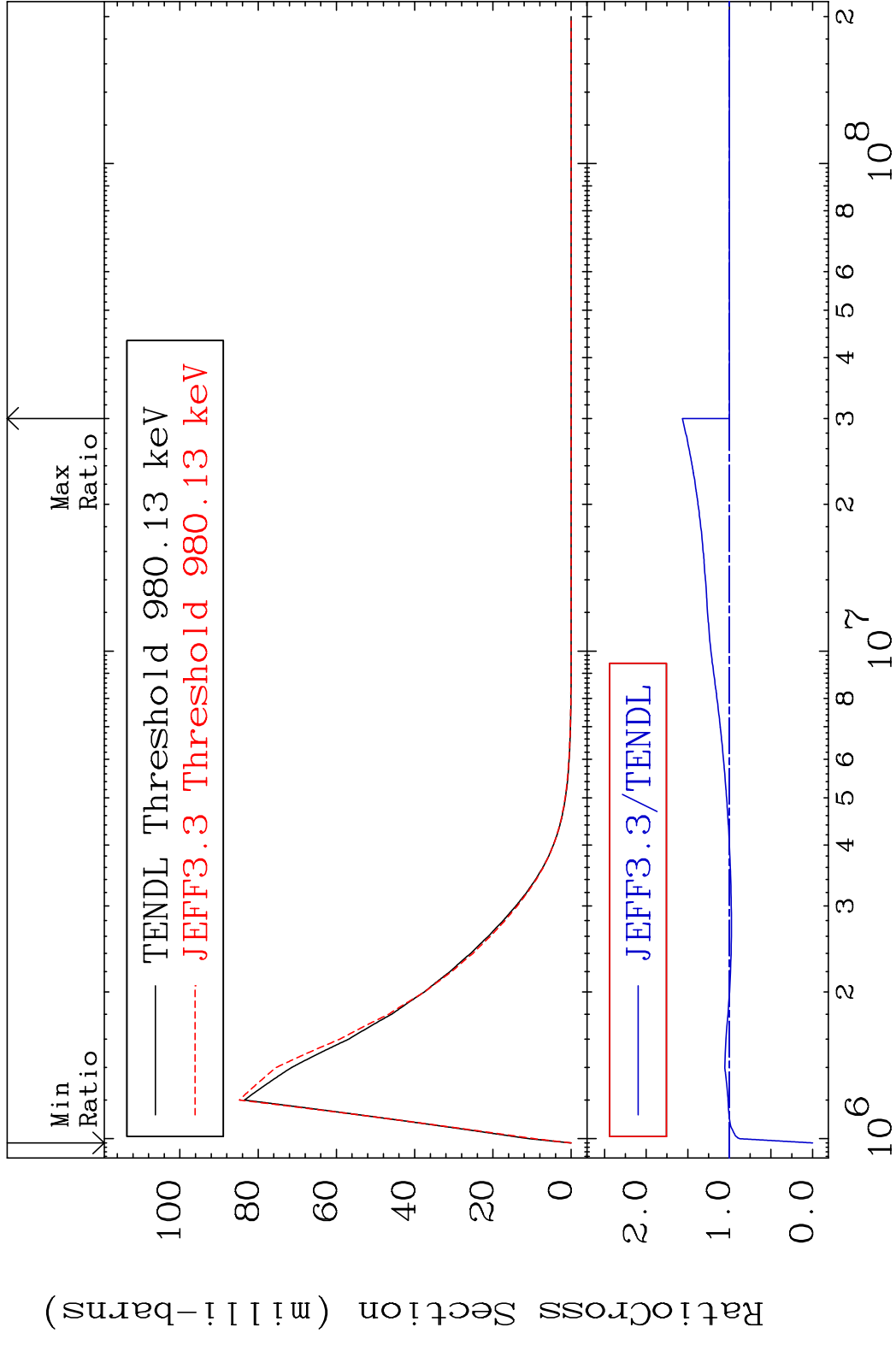


36

Incident Energy (eV)

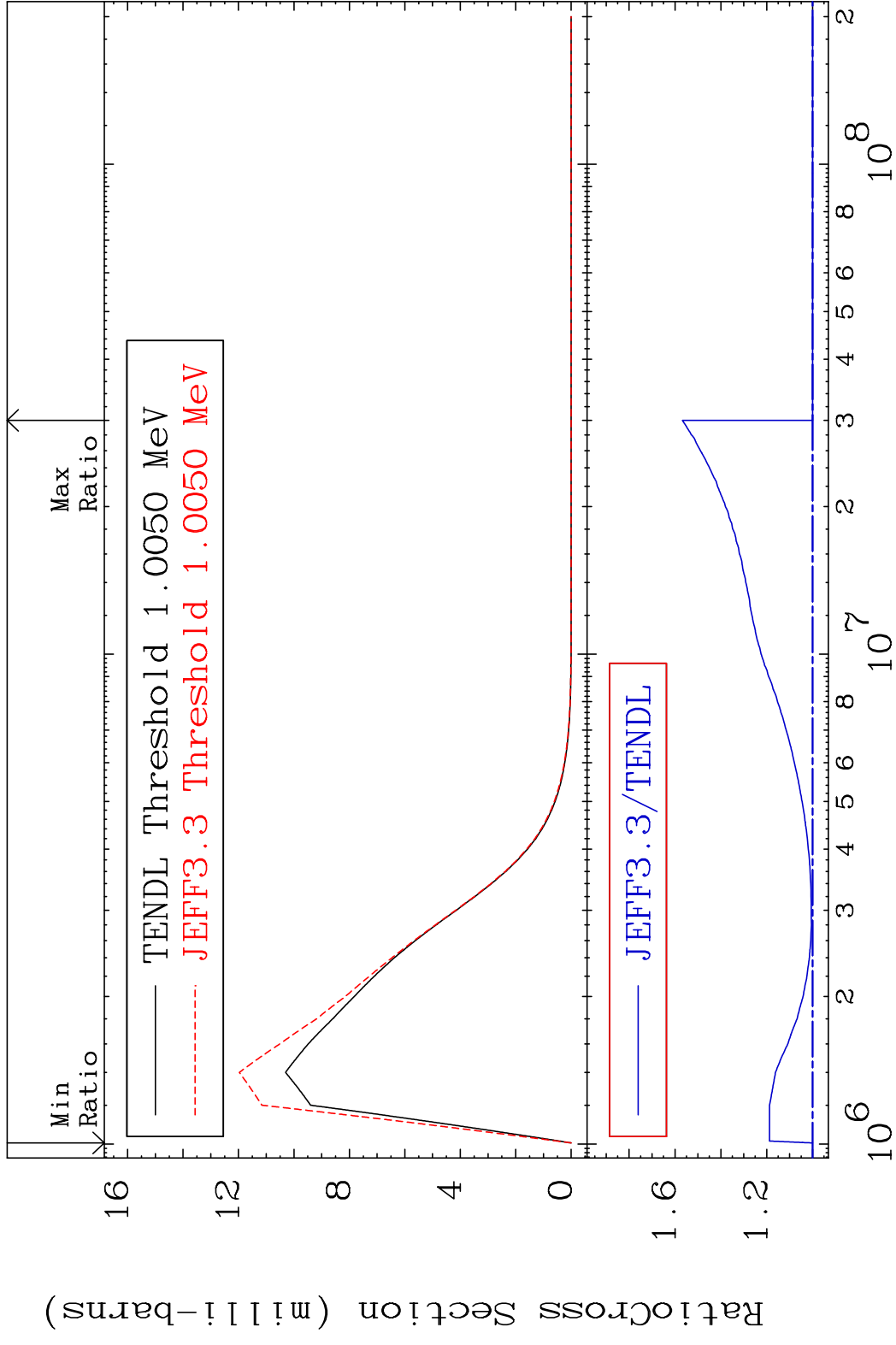
43-Tc-97

MAT 4319 MT= 68 (n, n') Level 43-Tc-97  
 Cross Section -100.0 To 56.50 %



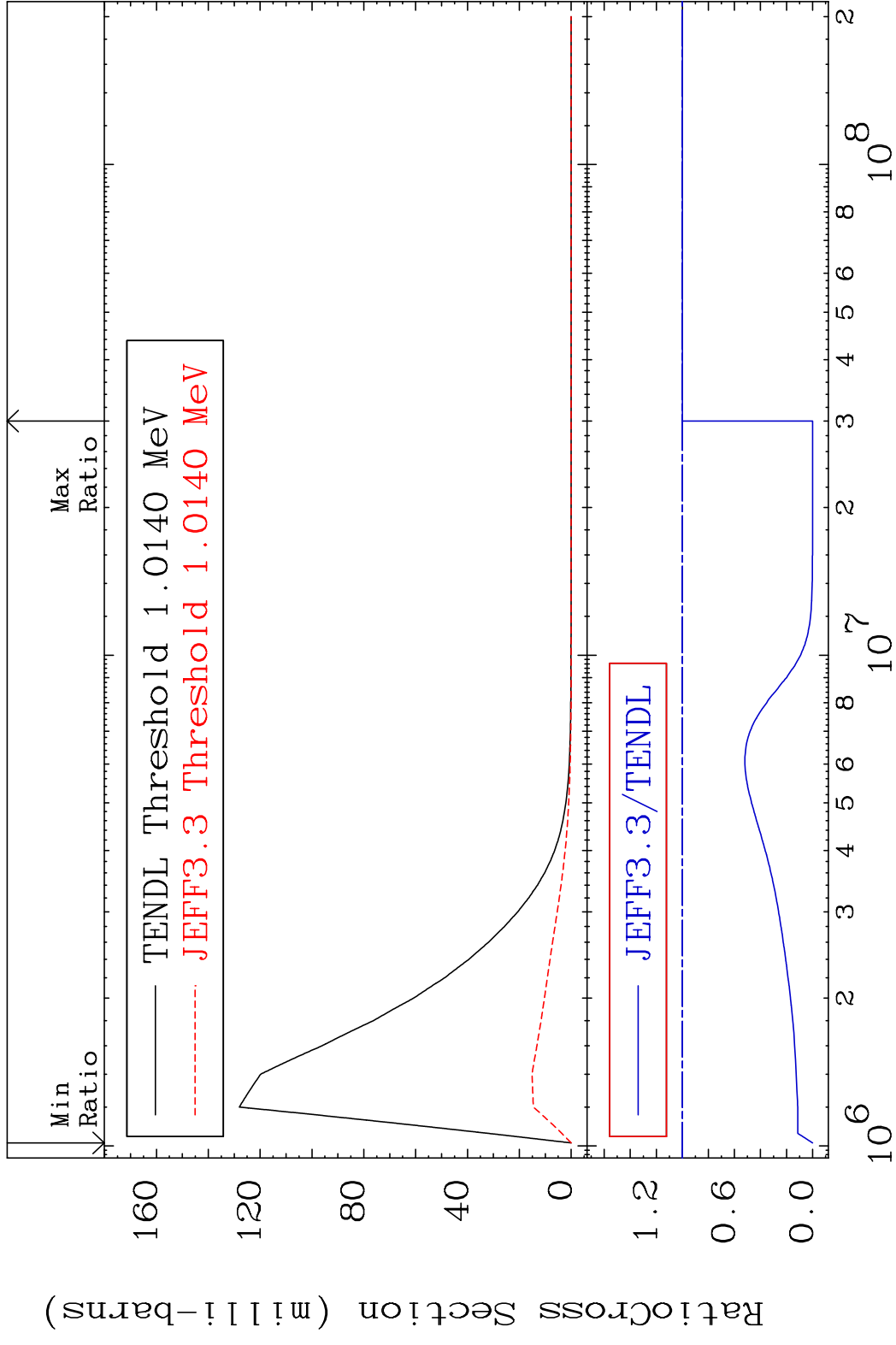
37 Incident Energy (eV) 43-Tc-97

MAT 4319 MT= 69 (n, n') Level 43-Tc-97  
 Cross Section 0.000 To 56.79 %



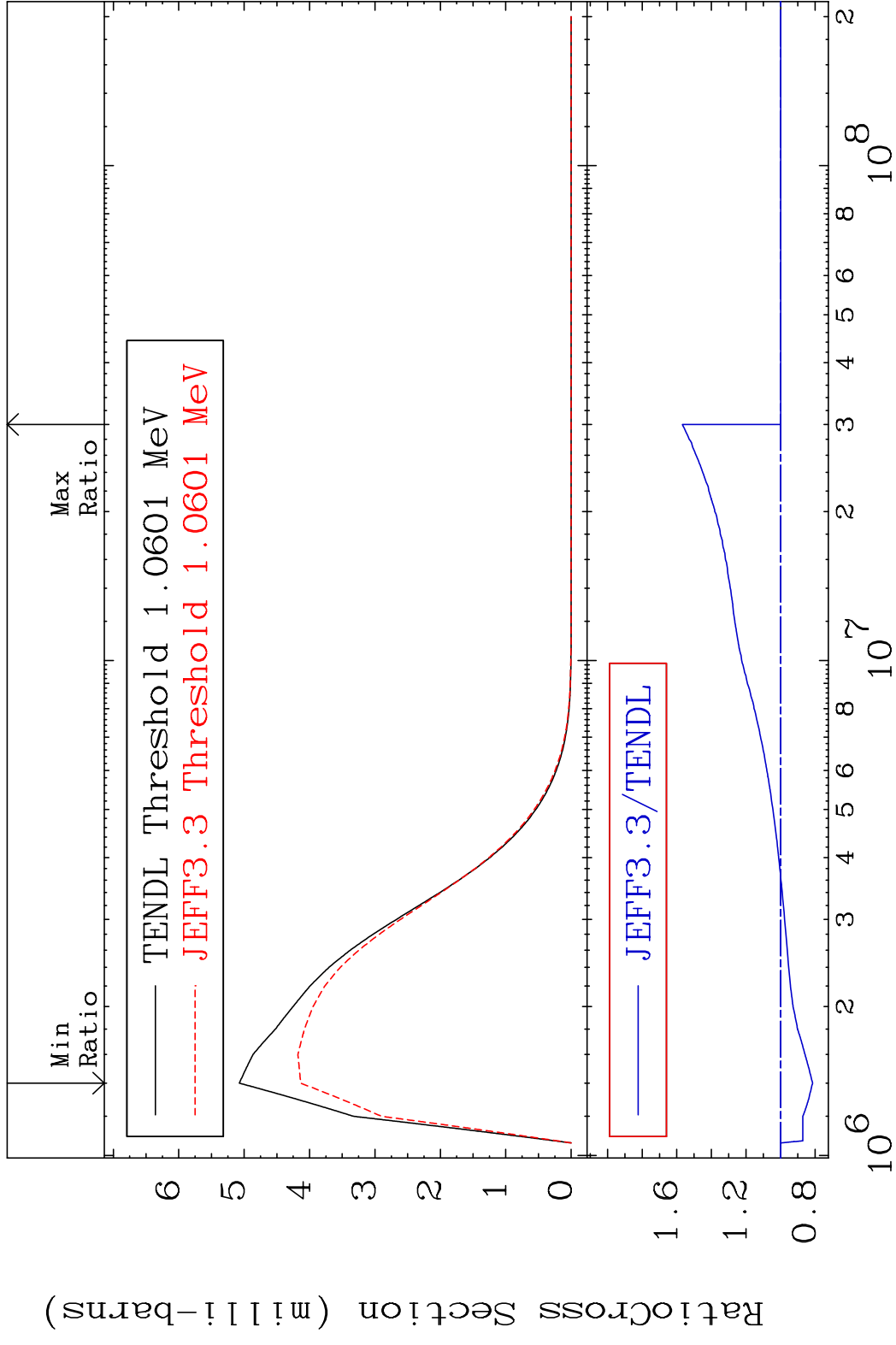
38 Incident Energy (eV) 43-Tc-97

MAT 4319 MT= 70 (n, n') Level 43-Tc-97  
 Cross Section -100.0 To 0.000 %



39 Incident Energy (eV) 43-Tc-97

MAT 4319 MT= 71 (n,n') Level 43-Tc-97  
 Cross Section -18.48 To 56.79 %



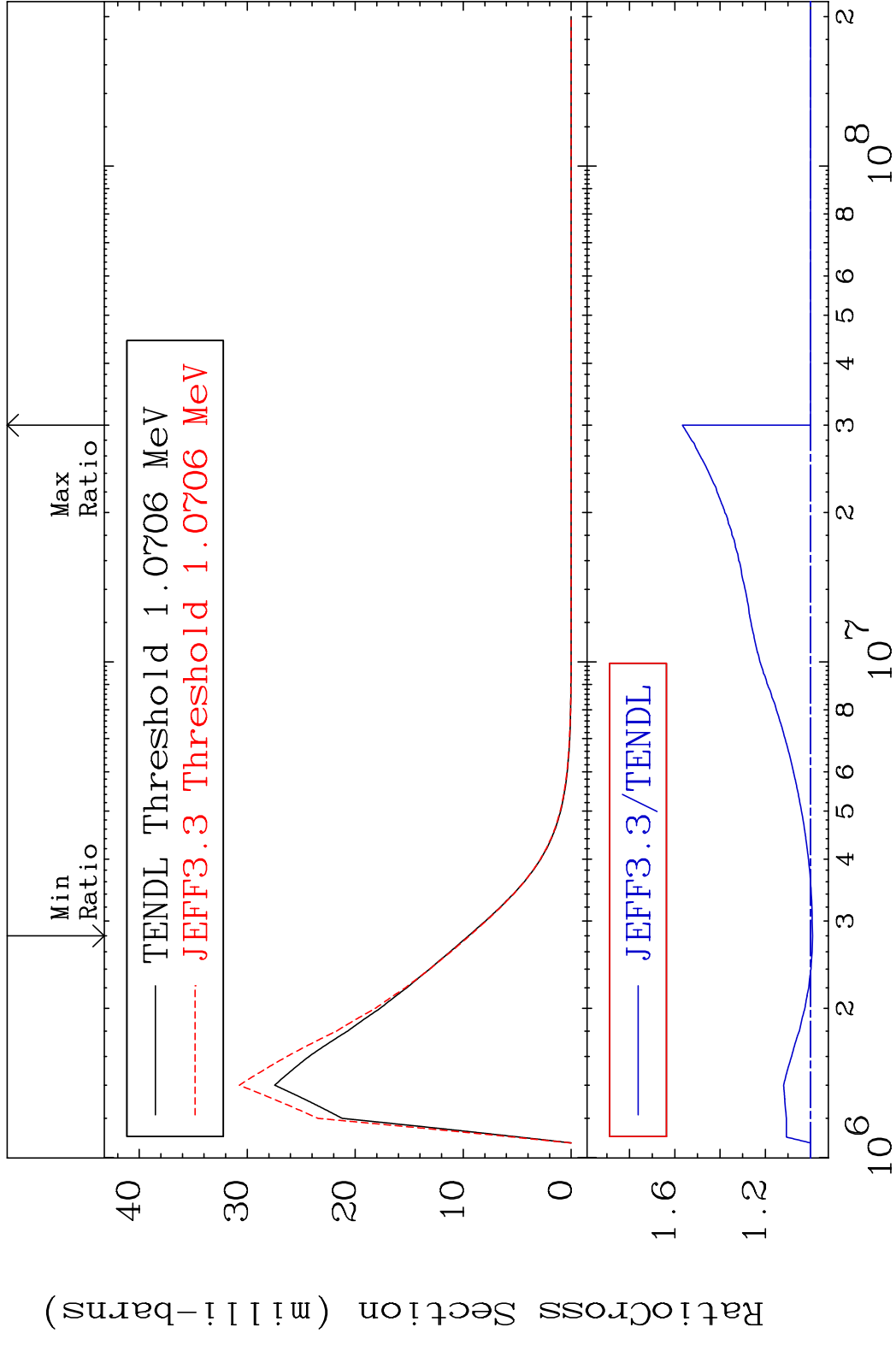
40 Incident Energy (eV) 43-Tc-97

MAT 4319

MT= 72 (n, n') Level

43-Tc-97

Cross Section -0.884 To 56.67 %

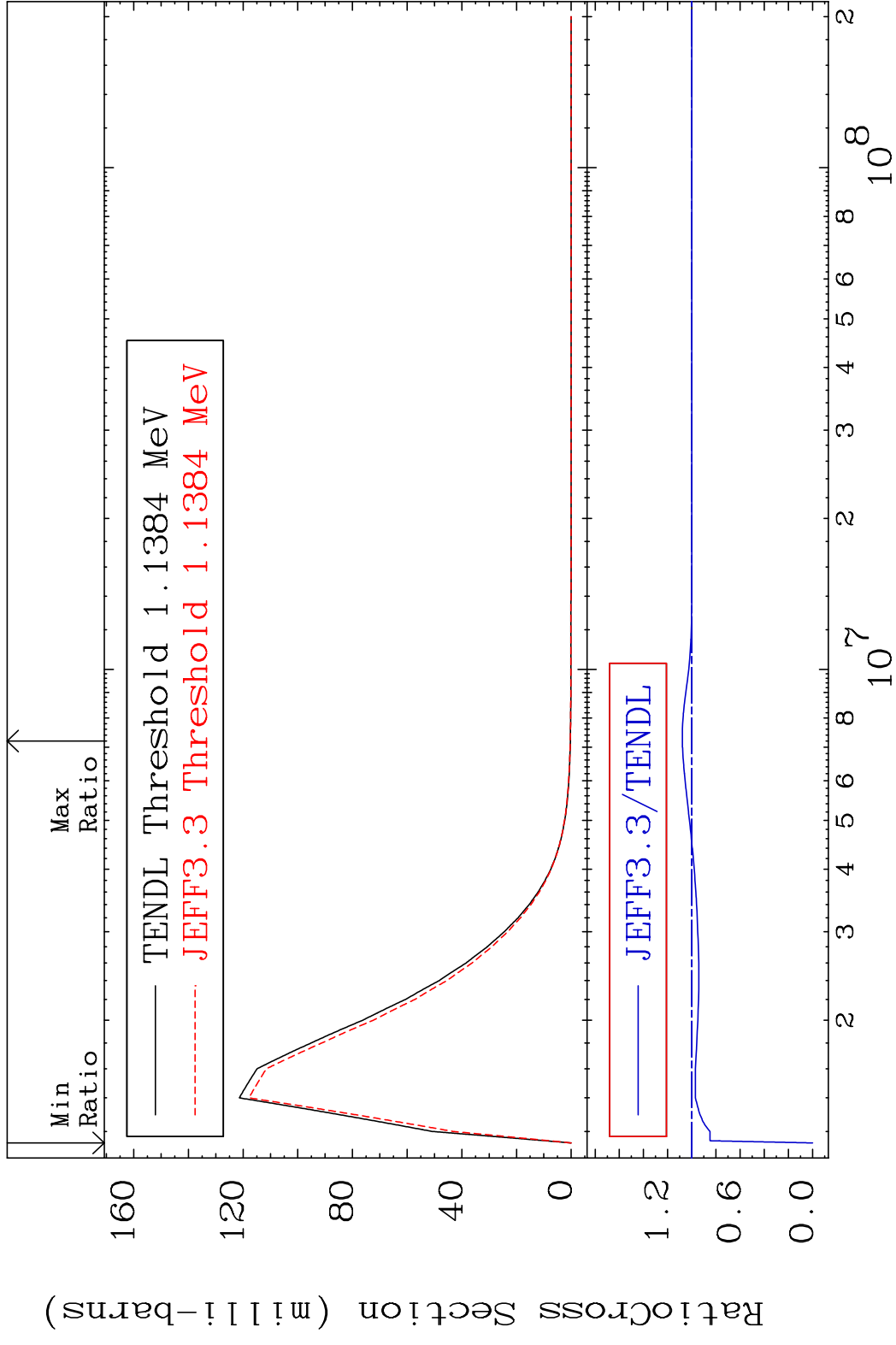


41

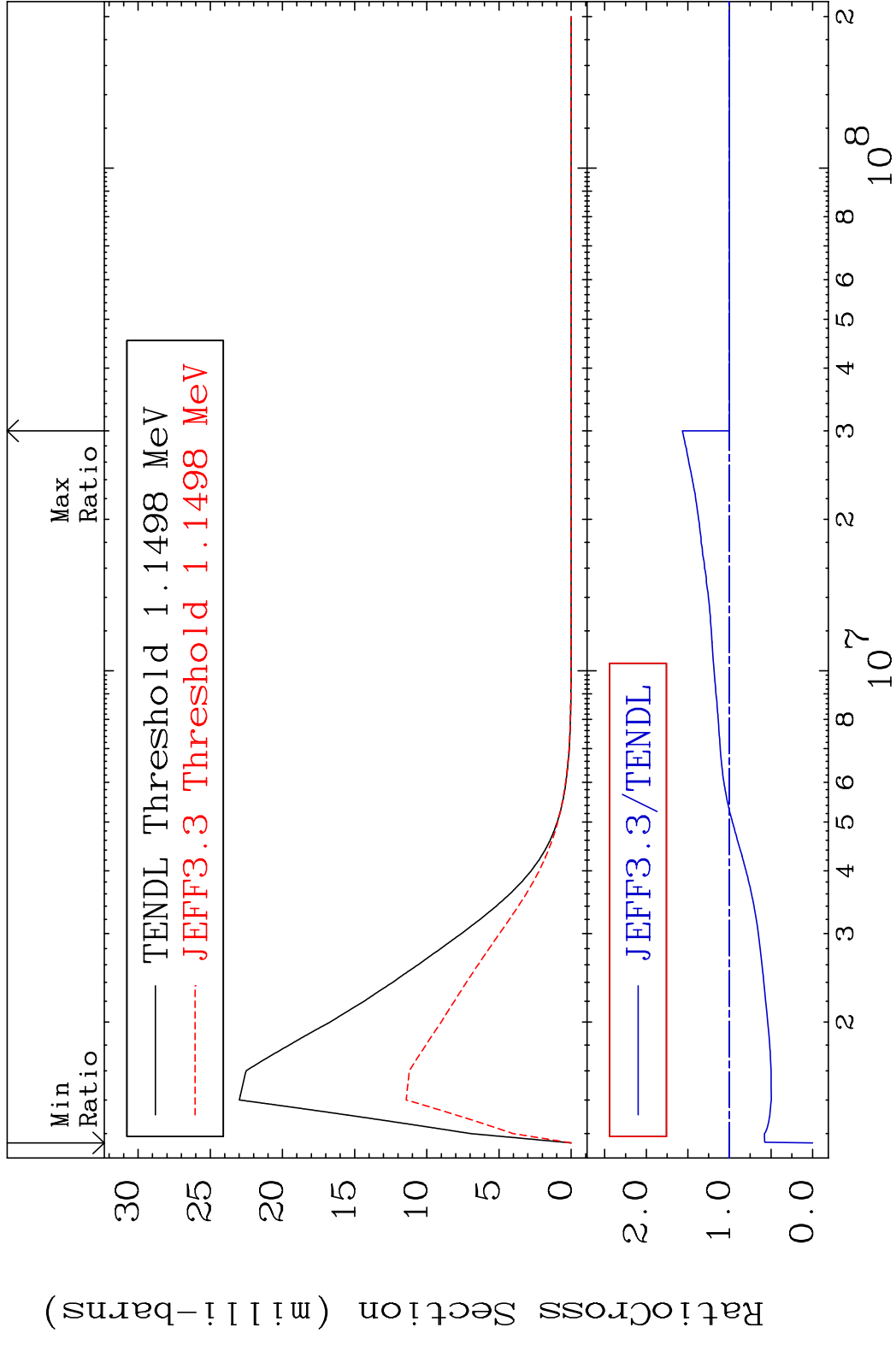
Incident Energy (eV)

43-Tc-97

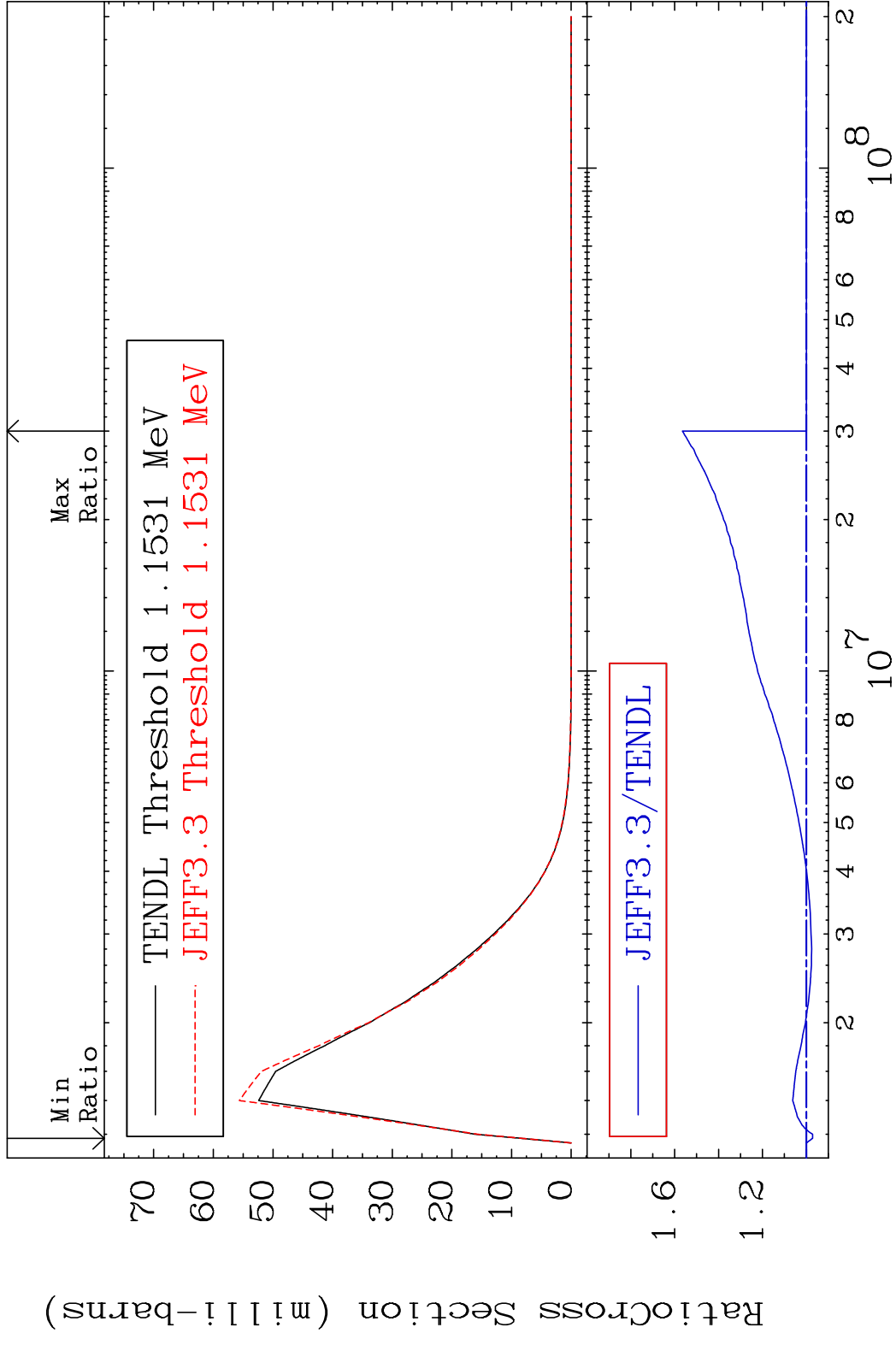
MAT 4319 MT= 73 (n, n') Level 43-Tc-97  
 Cross Section -100.0 To 7.813 %



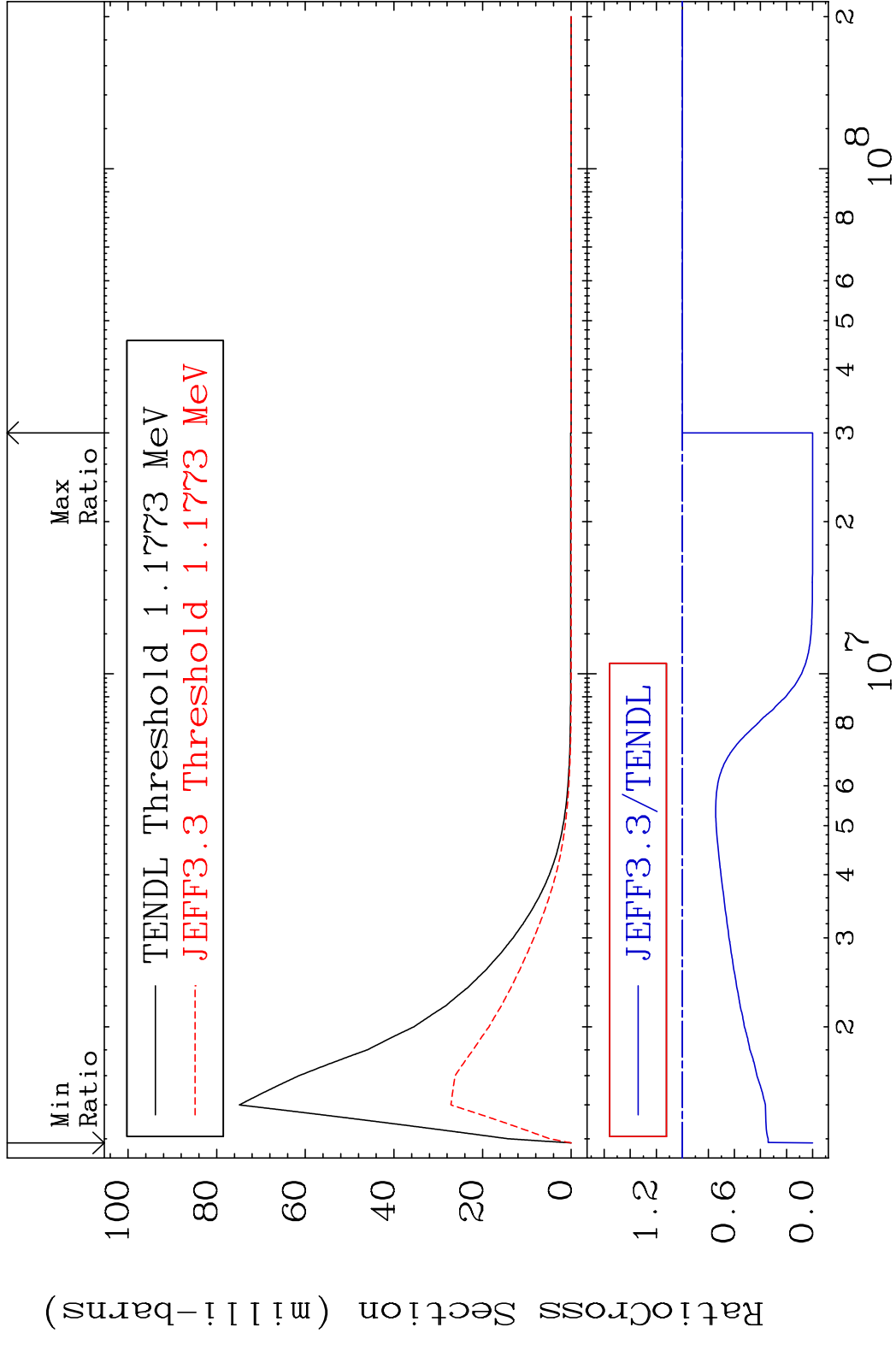
MAT 4319 MT= 74 (n,n') Level 43-Tc-97  
 Cross Section -100.0 To 56.62 %



MAT 4319 MT= 75 (n,n') Level 43-Tc-97  
 Cross Section -2.816 To 56.51 %

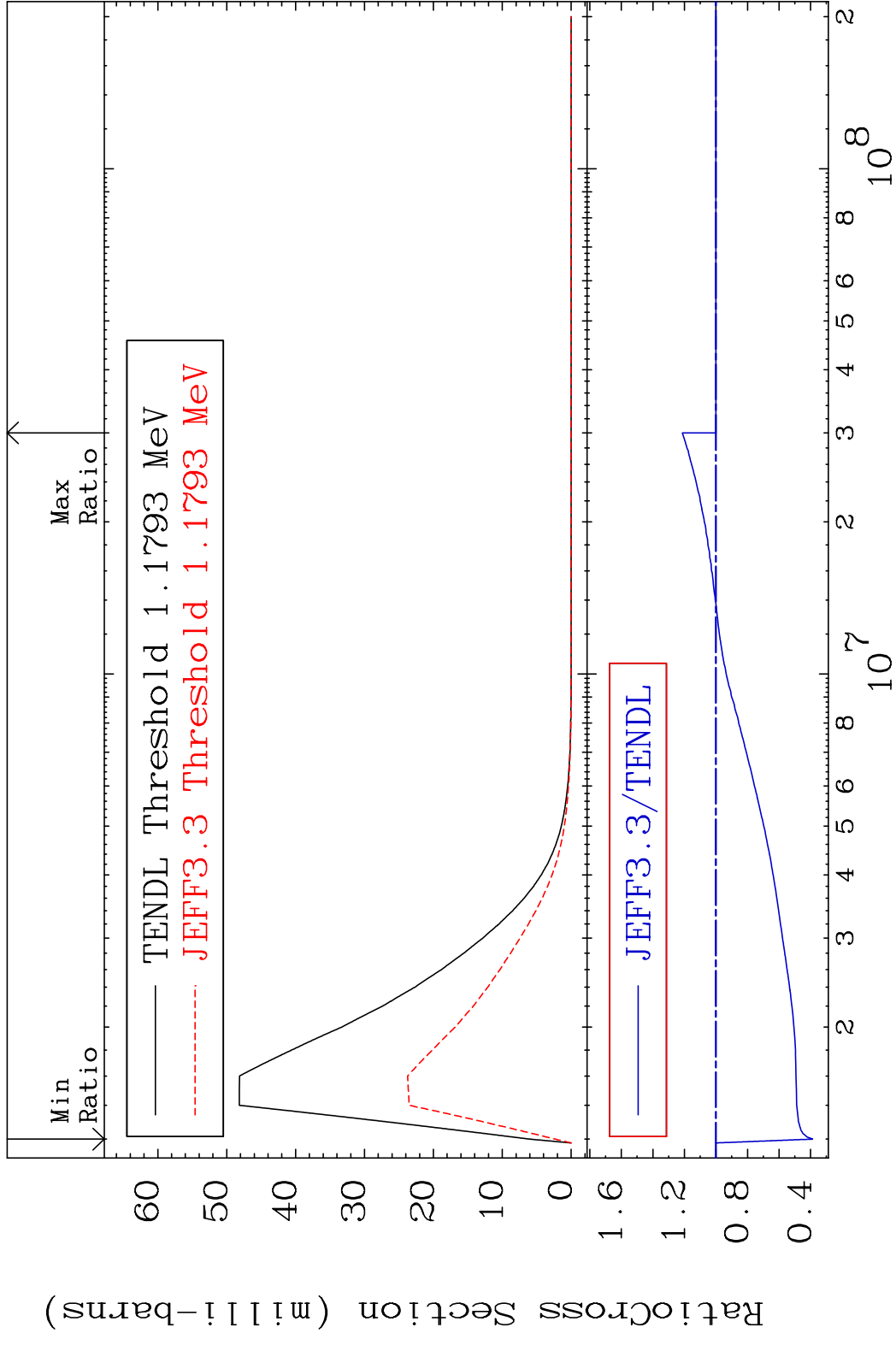


MAT 4319 MT= 76 (n, n') Level 43-Tc-97  
 Cross Section -100.0 To 0.000 %

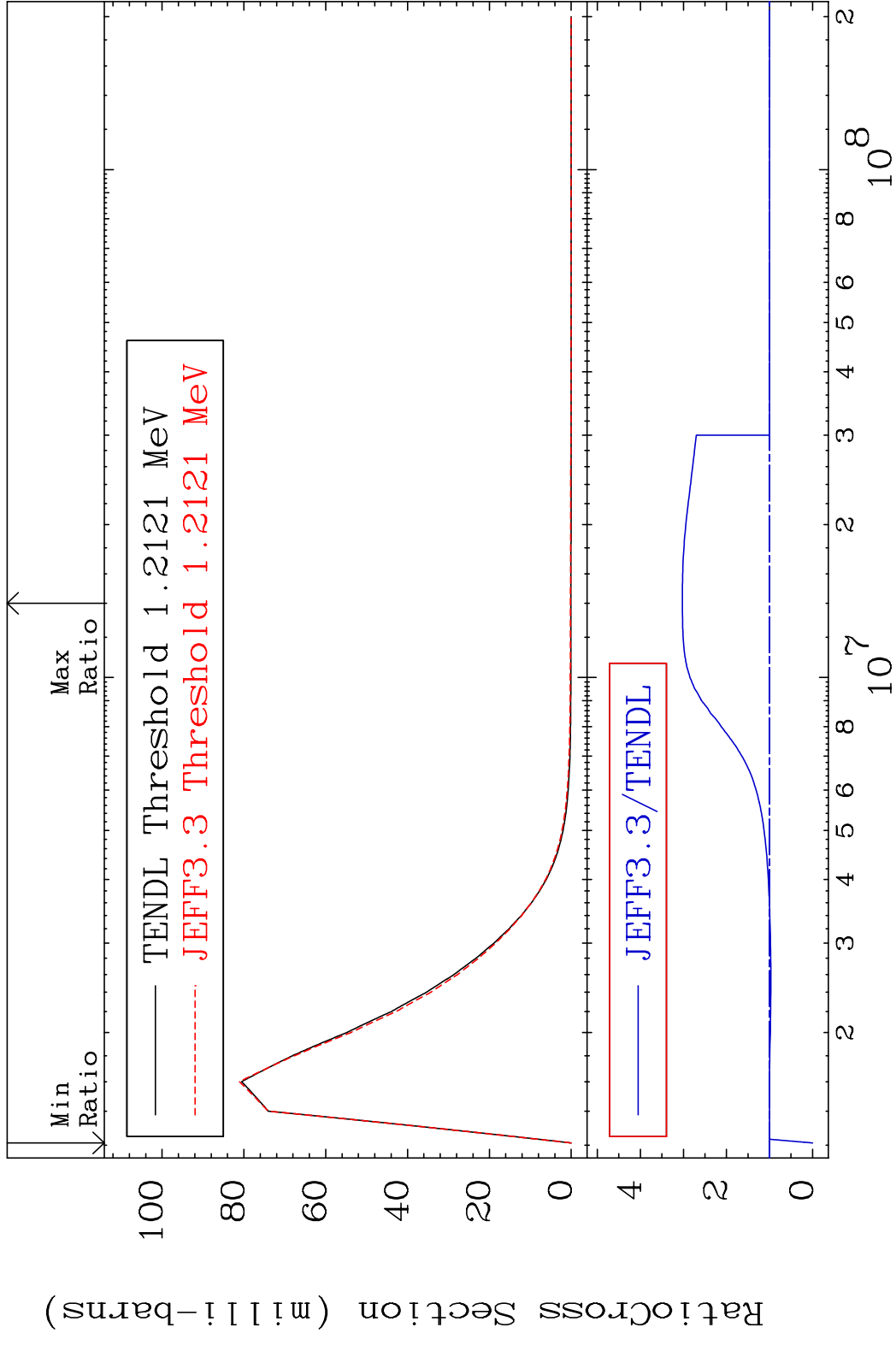


45 Incident Energy (eV) 43-Tc-97

MAT 4319 MT= 77 (n, n') Level 43-Tc-97  
 Cross Section -61.22 To 21.32 %

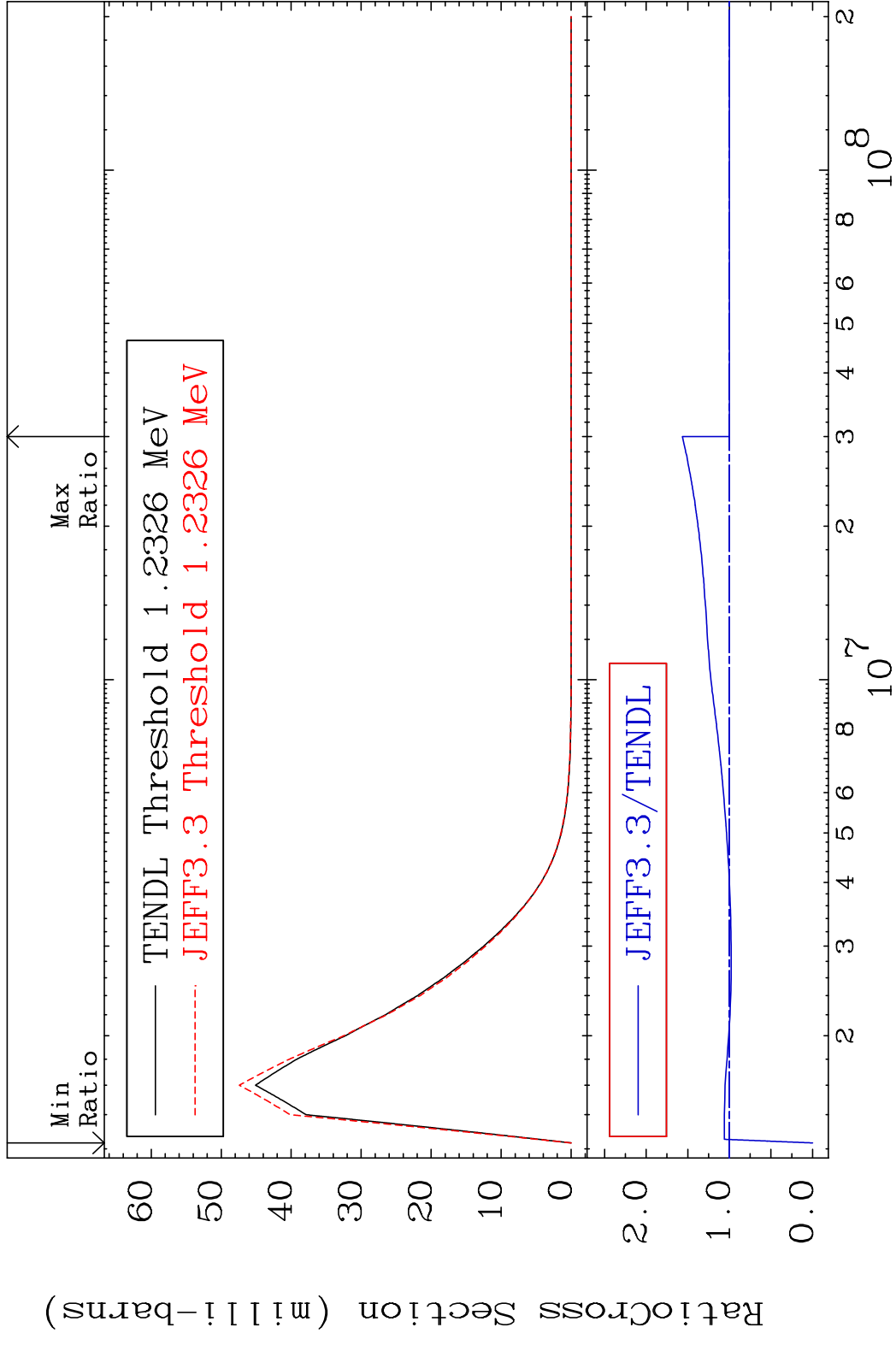


MAT 4319 MT= 78 (n, n') Level 43-Tc-97  
 Cross Section -100.0 To 202.5 %

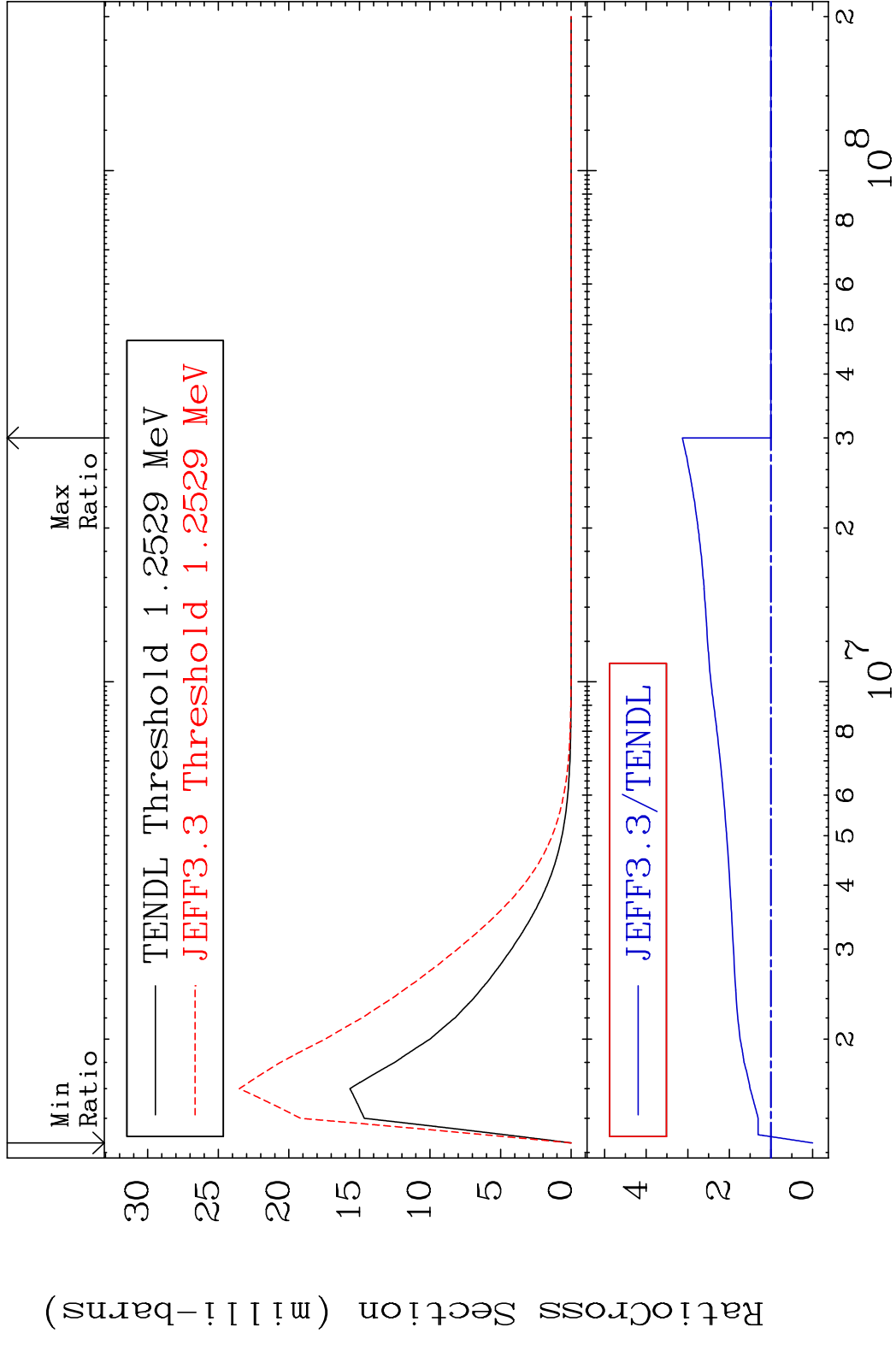


47 43-Tc-97

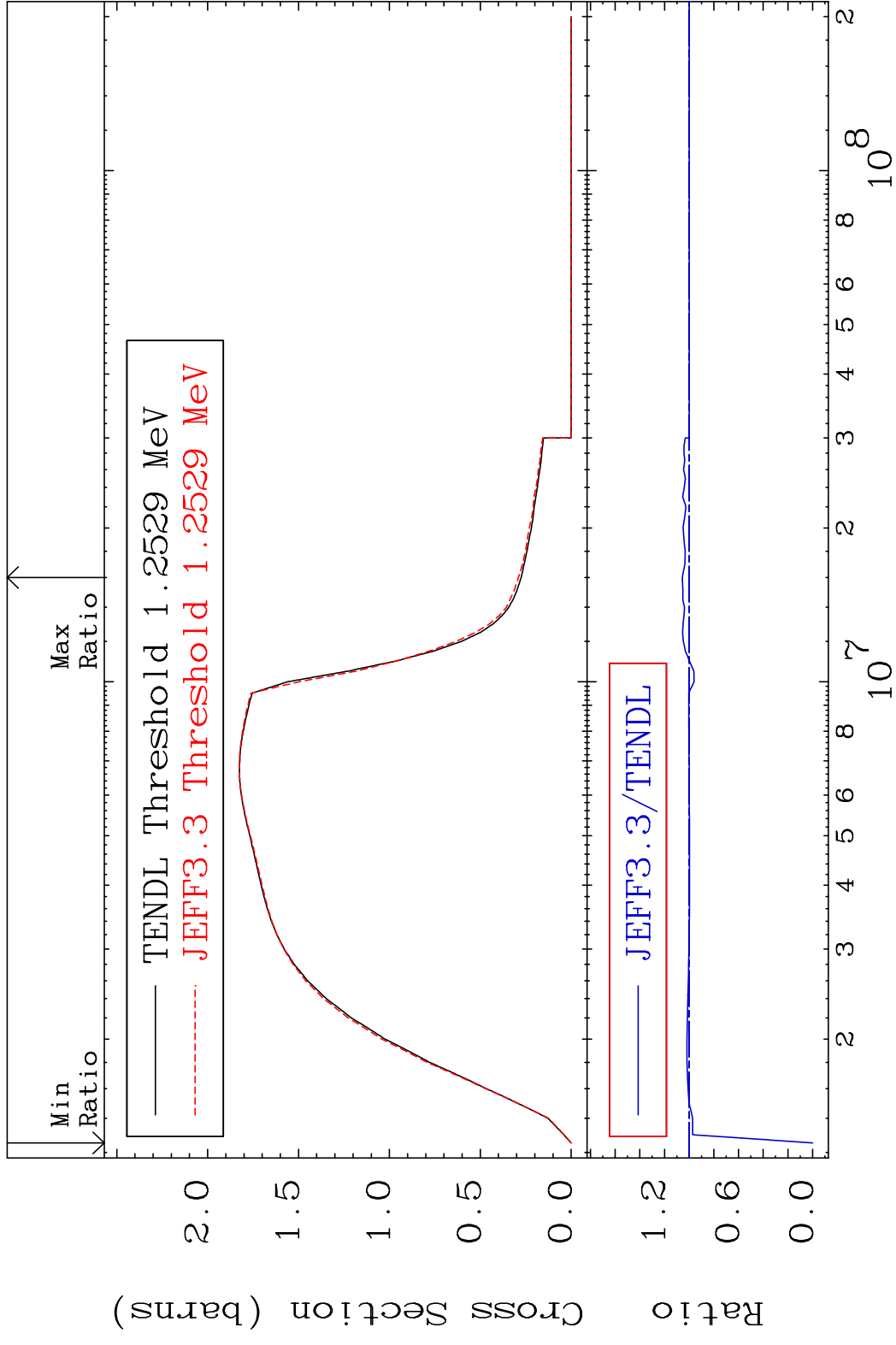
MAT 4319 MT= 79 (n,n') Level 43-Tc-97  
 Cross Section -100.0 To 56.51 %



MAT 4319 MT= 80 (n, n') Level 43-Tc-97  
 Cross Section -100.0 To 213.0 %

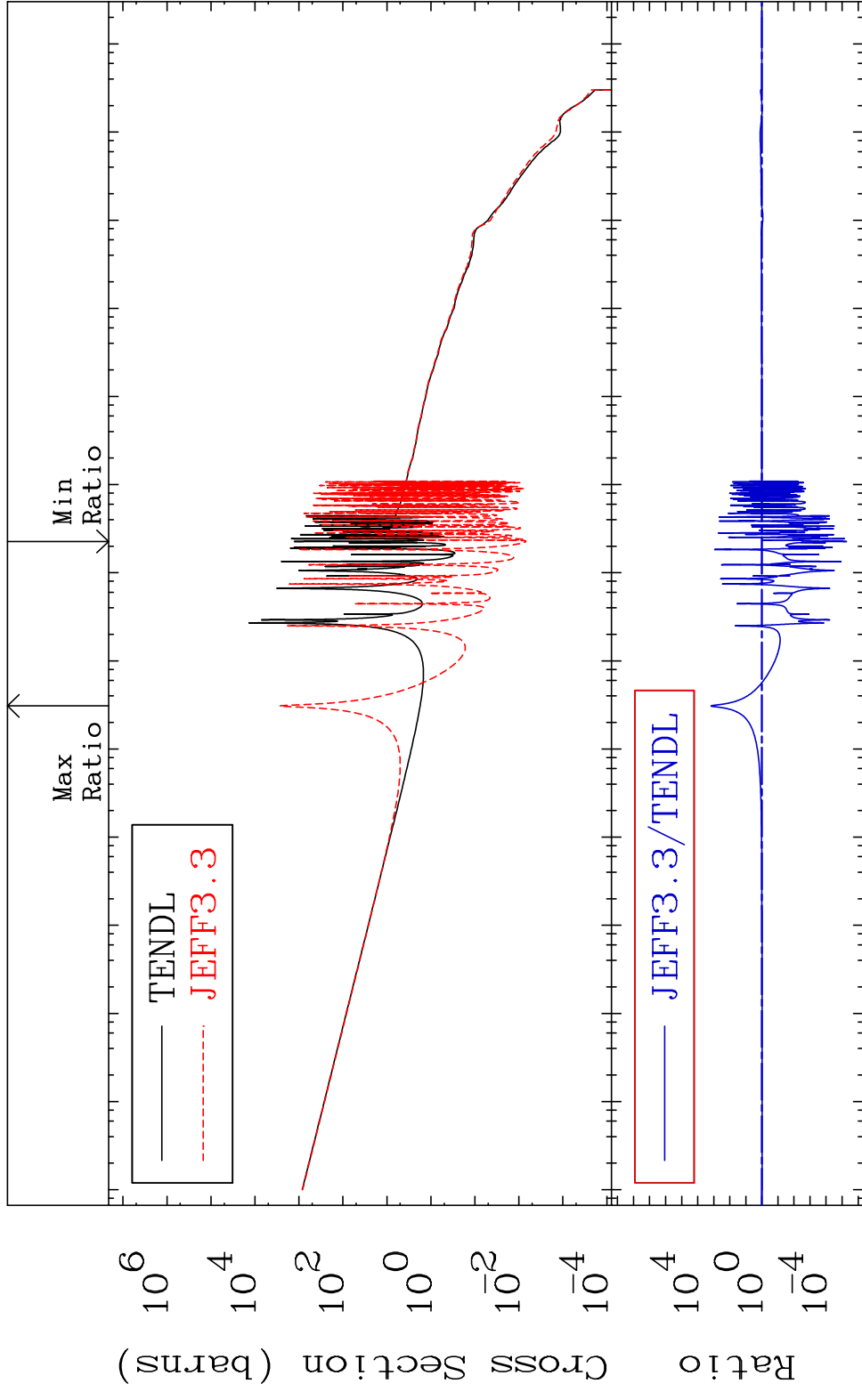


MAT 4319 (n, n') Continuum 43-Tc-97  
 Cross Section -100.0 To 5.523 %



MAT 4319

(n,  $\gamma$ )  
Cross Section -100.0 To 9999. %  
43-Tc-97

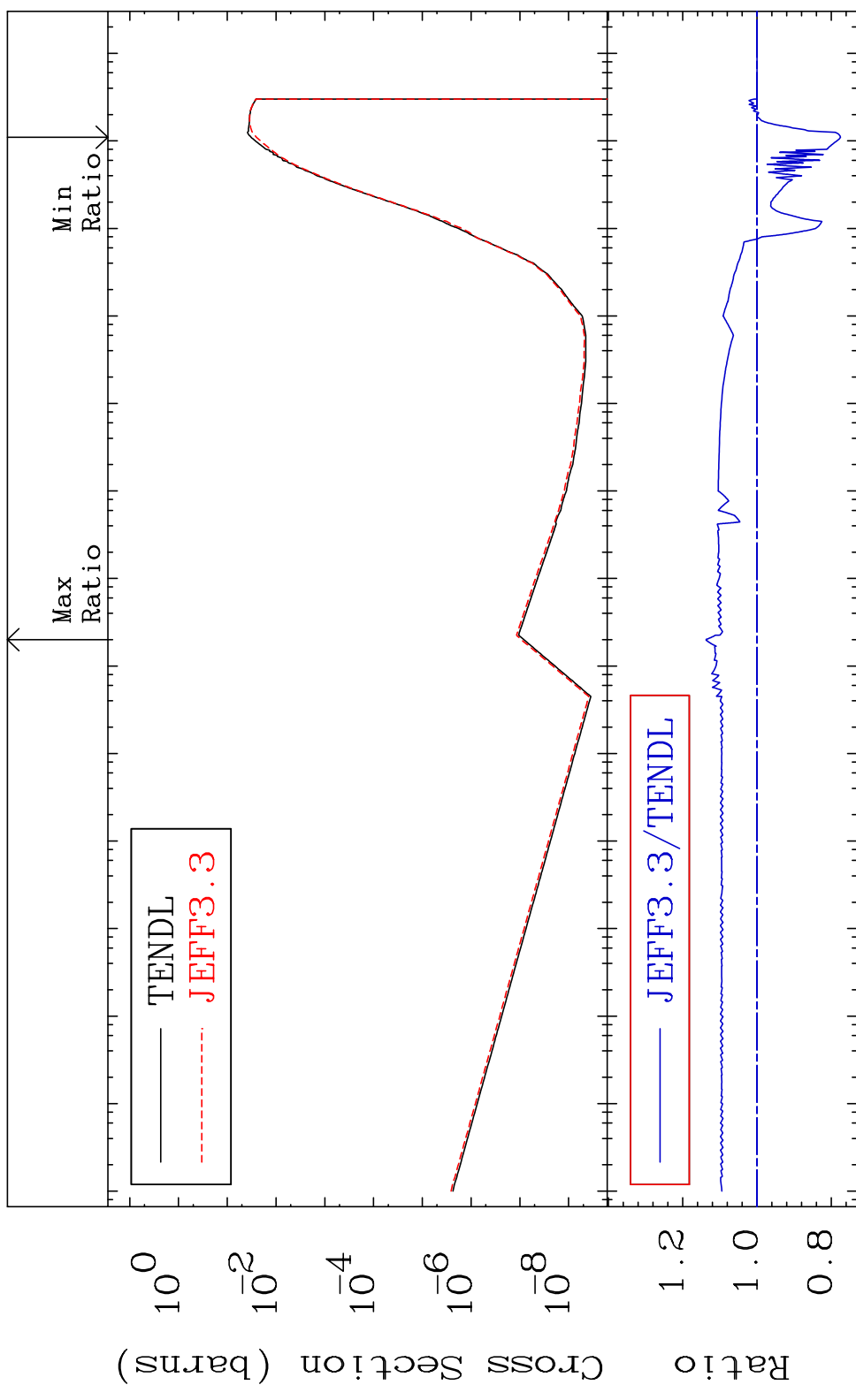


MAT 4319

(n, p)

43-Tc-97

Cross Section -22.46 To 13.80 %



52

Incident Energy (eV)

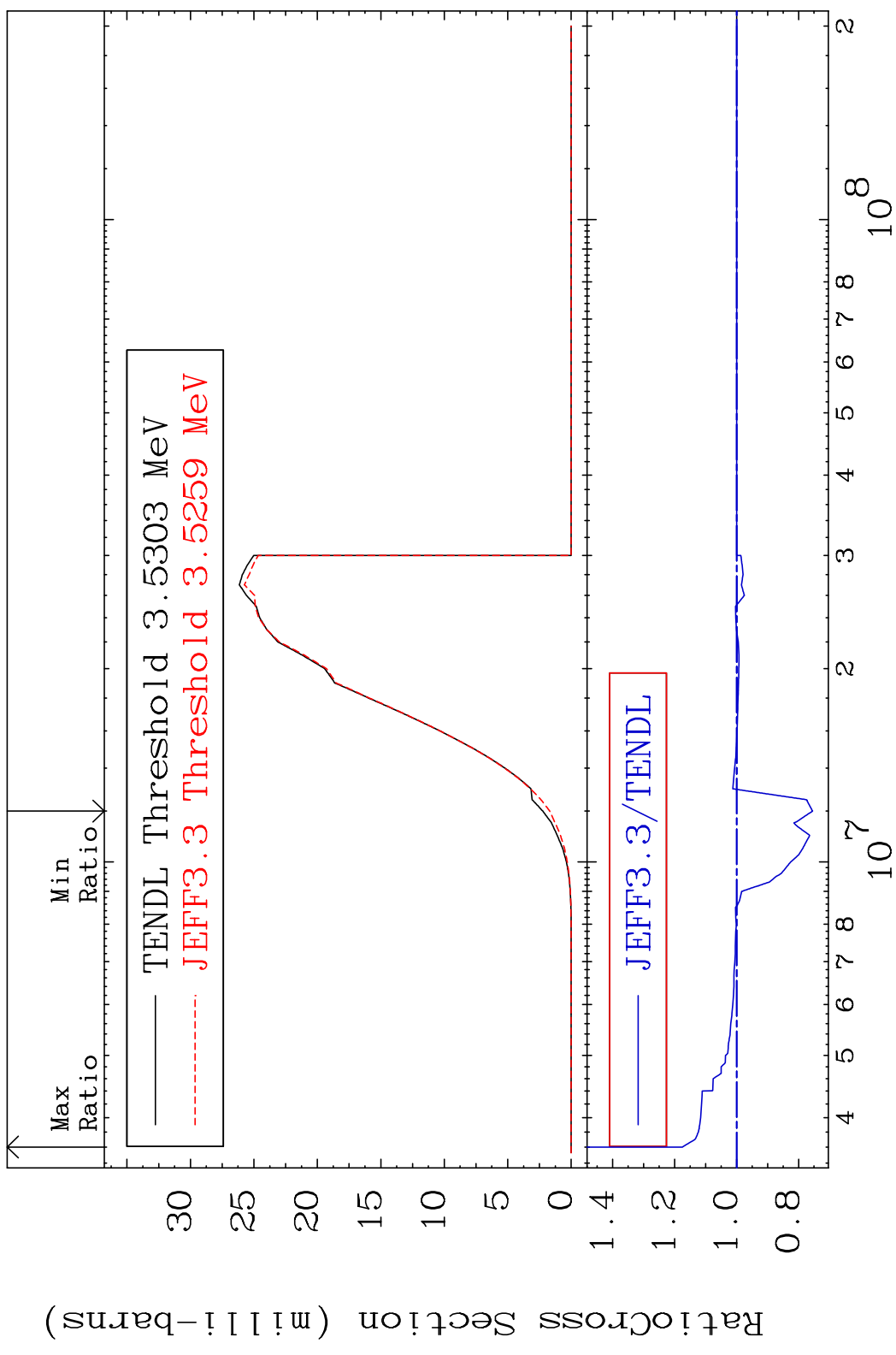
43-Tc-97

MAT 4319

(n, d)

43-Tc-97

Cross Section -24.51 To 17.51 %

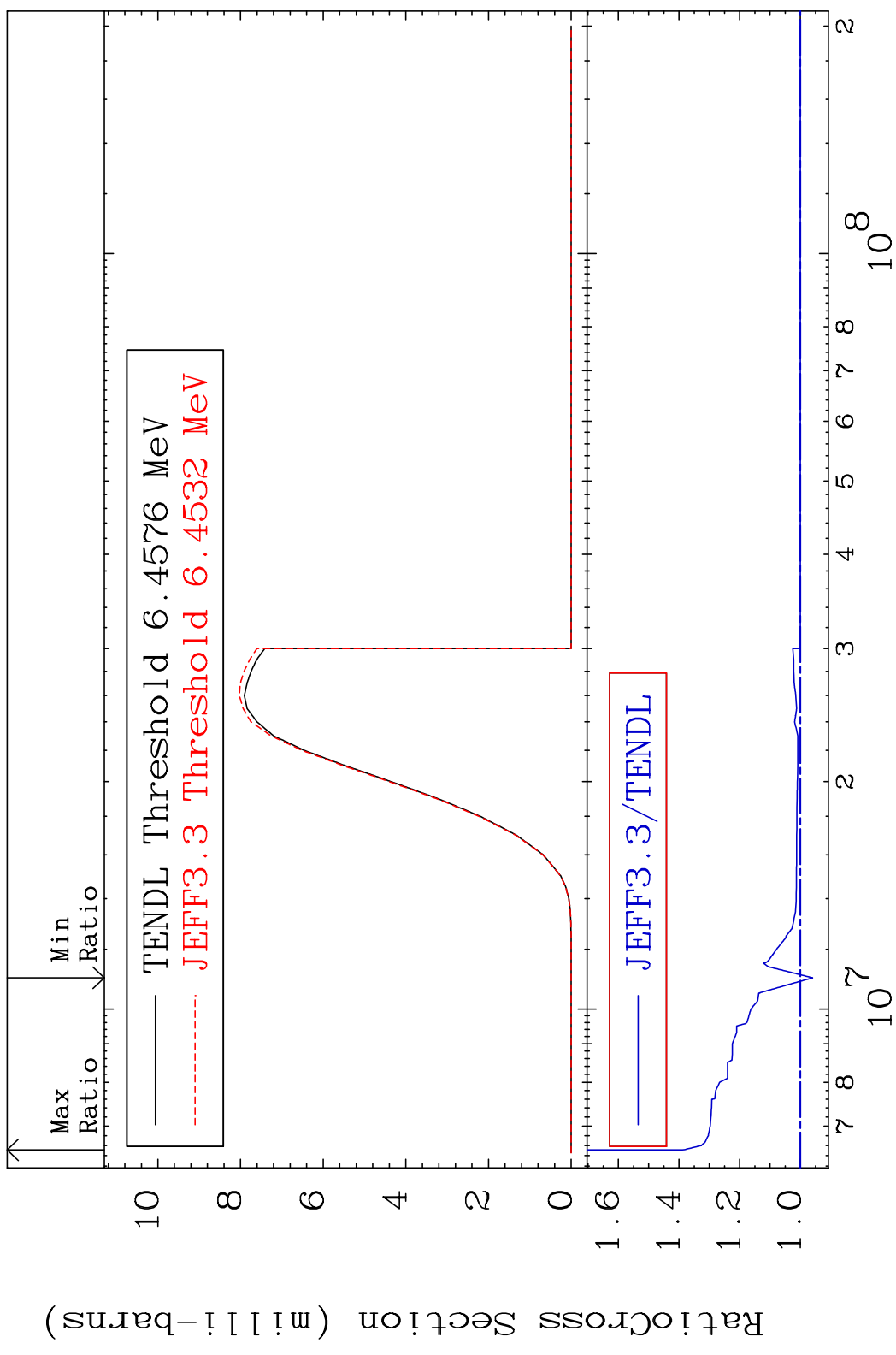


MAT 4319

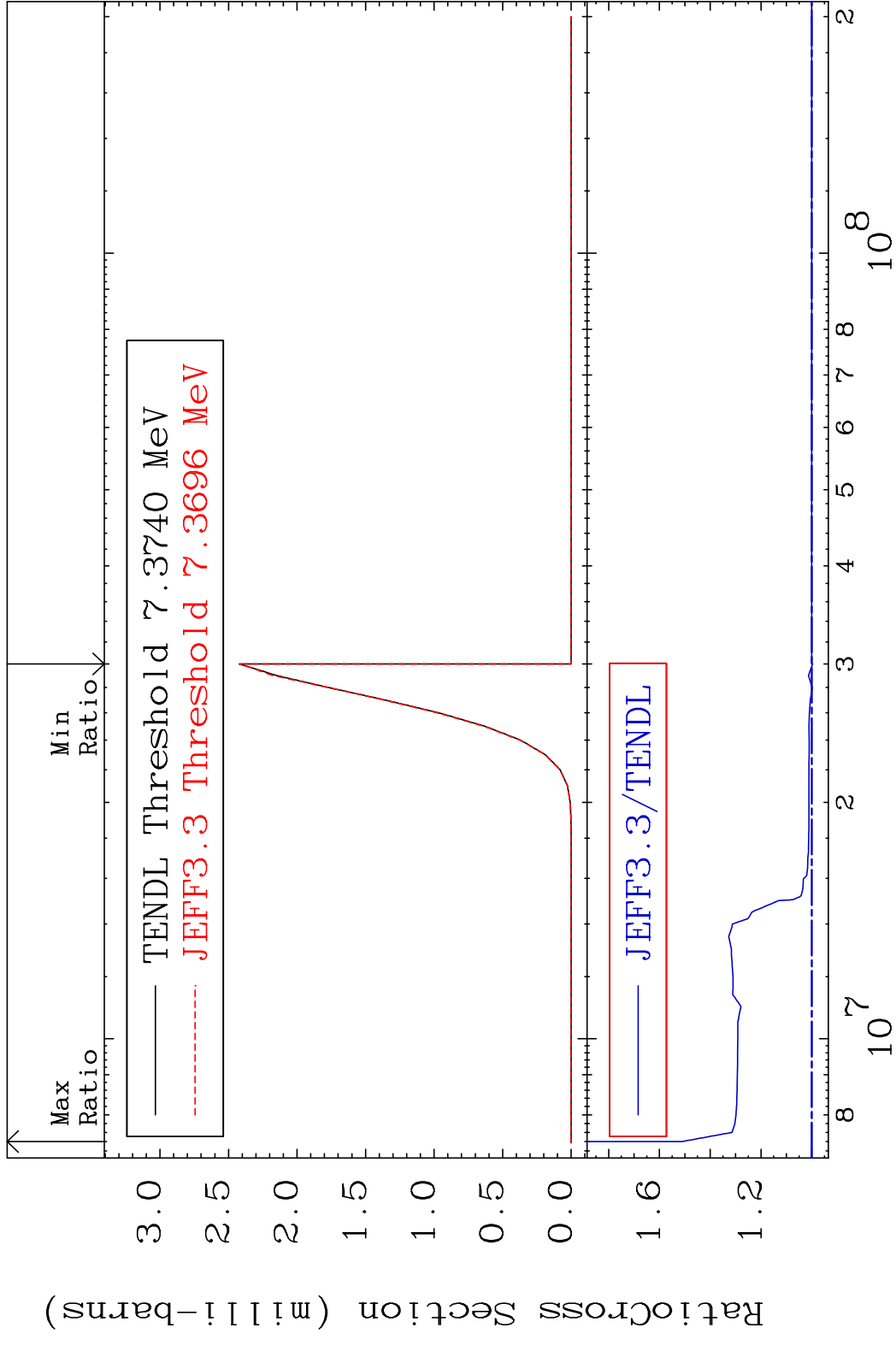
(n, t)

43-Tc-97

Cross Section -4.007 To 38.90 %



MAT 4319 (n, He-3) 43-Tc-97  
 Cross Section -0.300 To 50.98 %

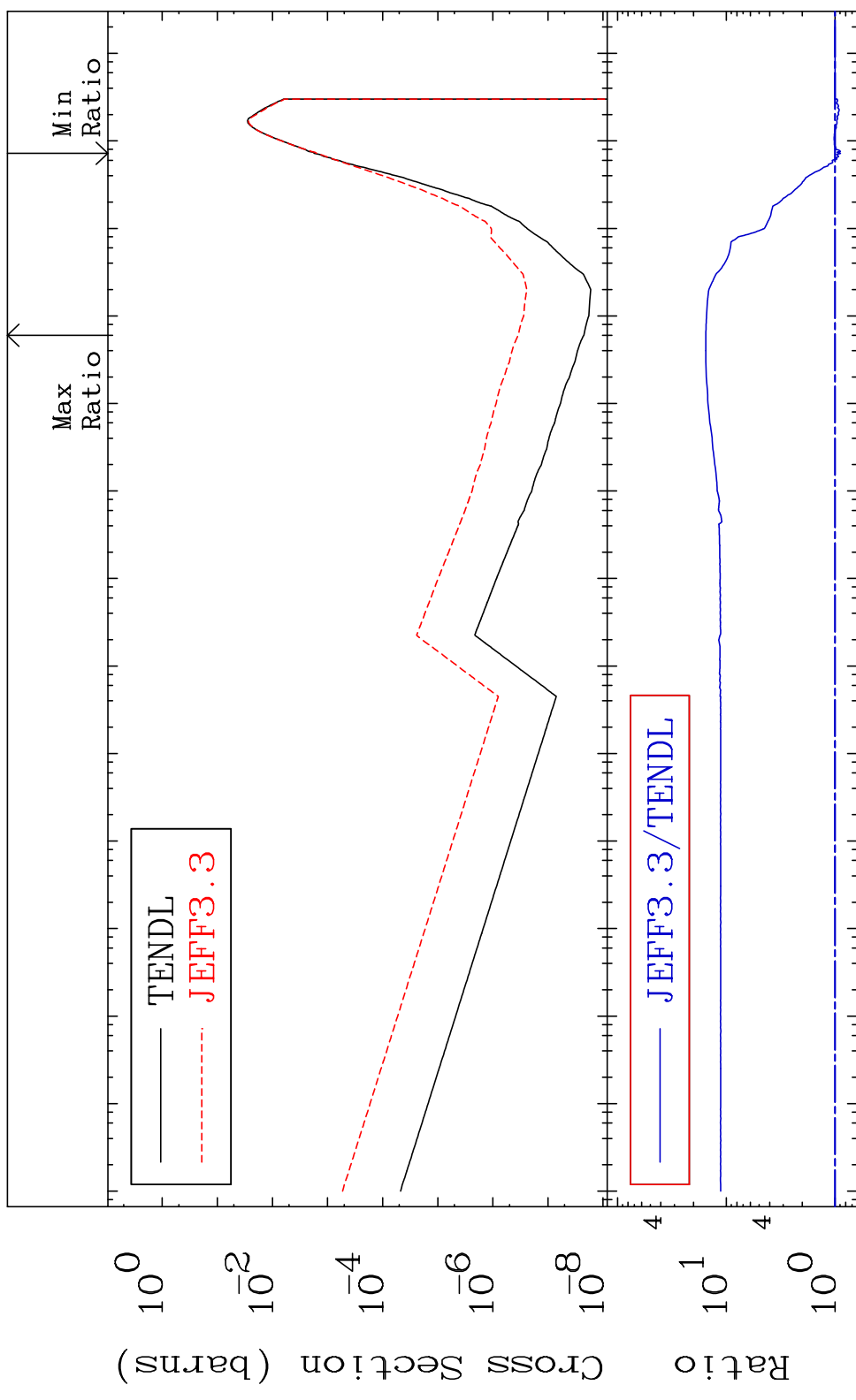


MAT 4319

(n,  $\alpha$ )

43-Tc-97

Cross Section -10.58 To 1445. %

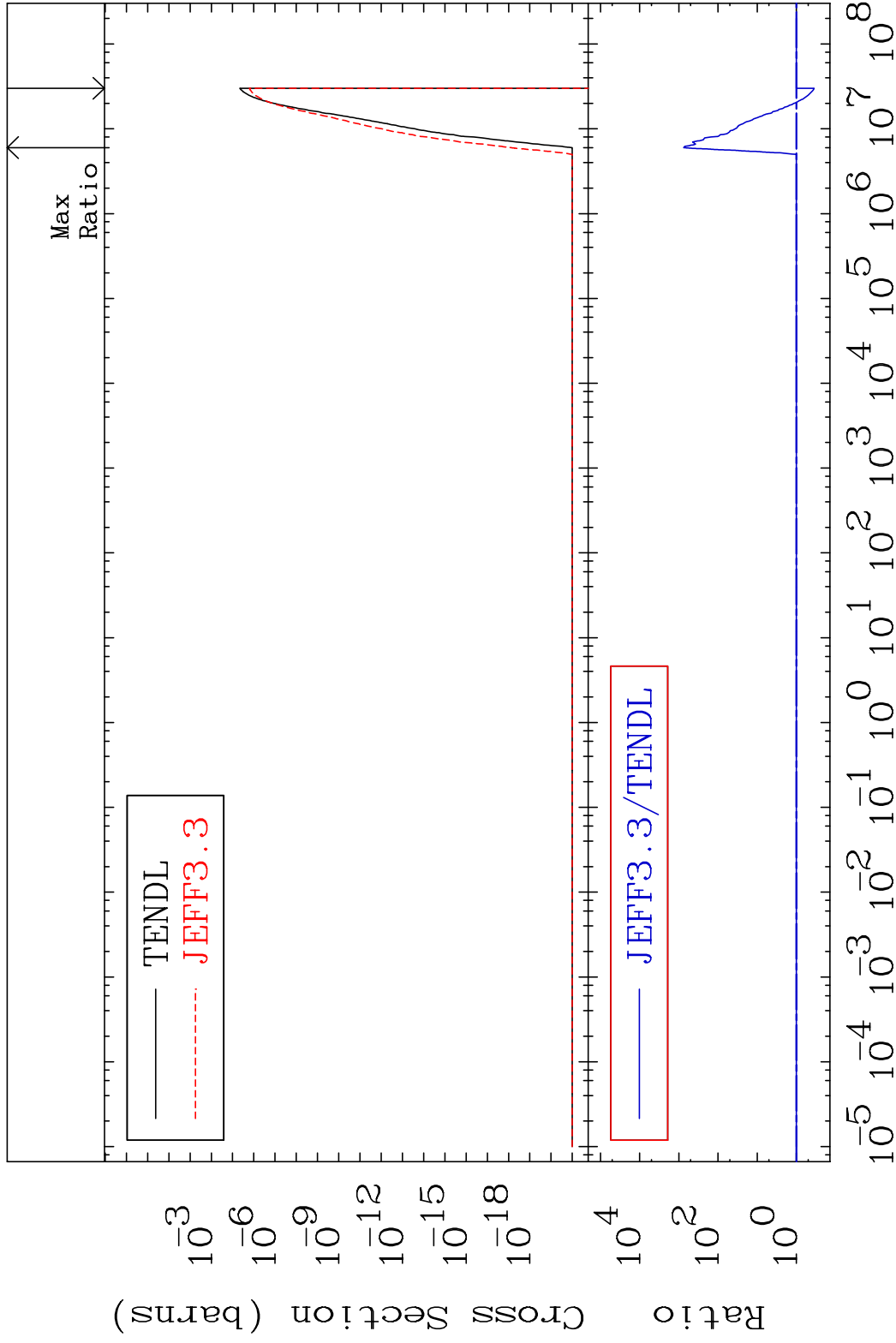


MAT 4319

(n,2α)

43-Tc-97

Cross Section -64.61 To 9999. %



57

Incident Energy (eV)

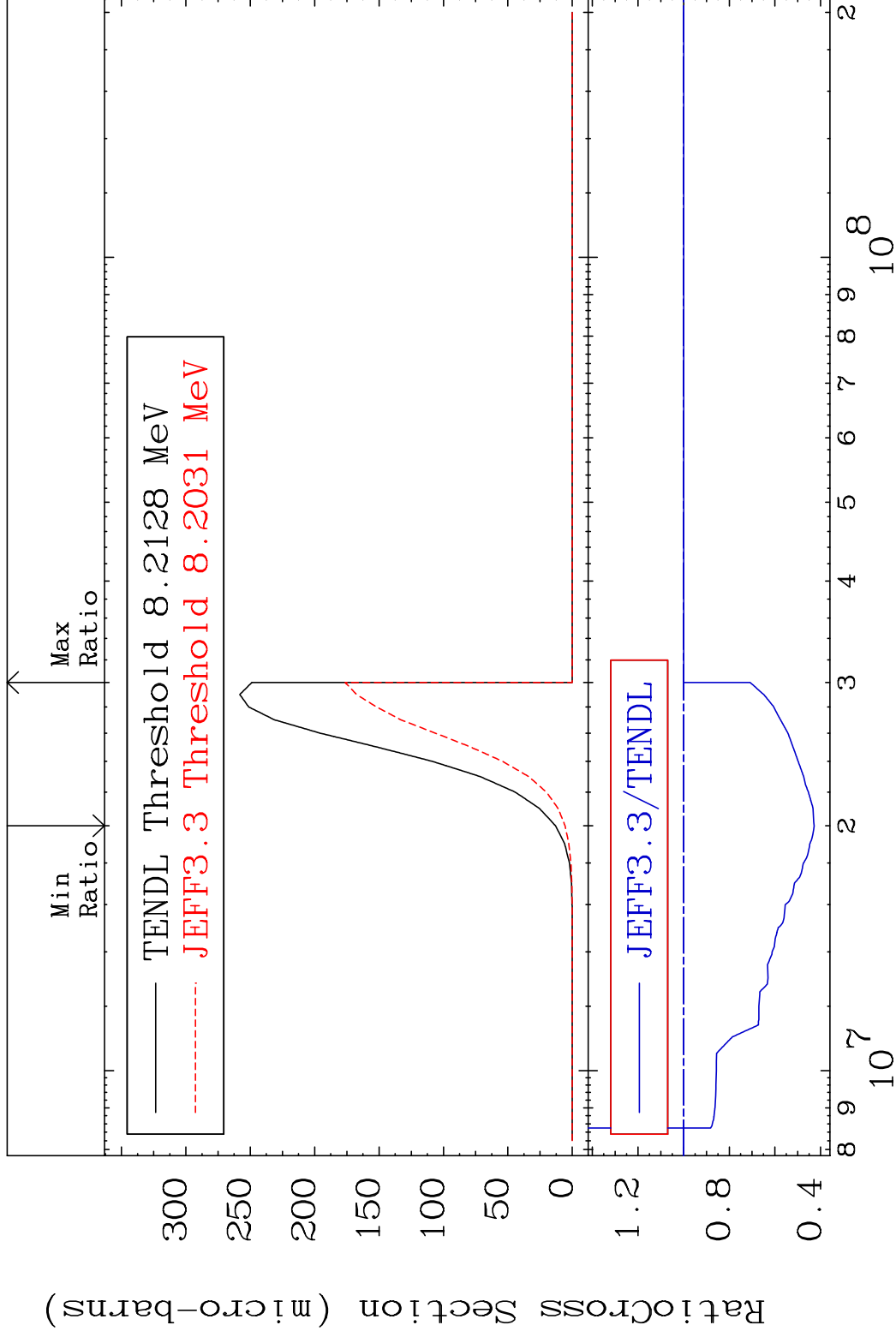
43-Tc-97

MAT 4319

(n,2p)

43-Tc-97

Cross Section -57.18 To 0.000 %



58

Incident Energy (eV)

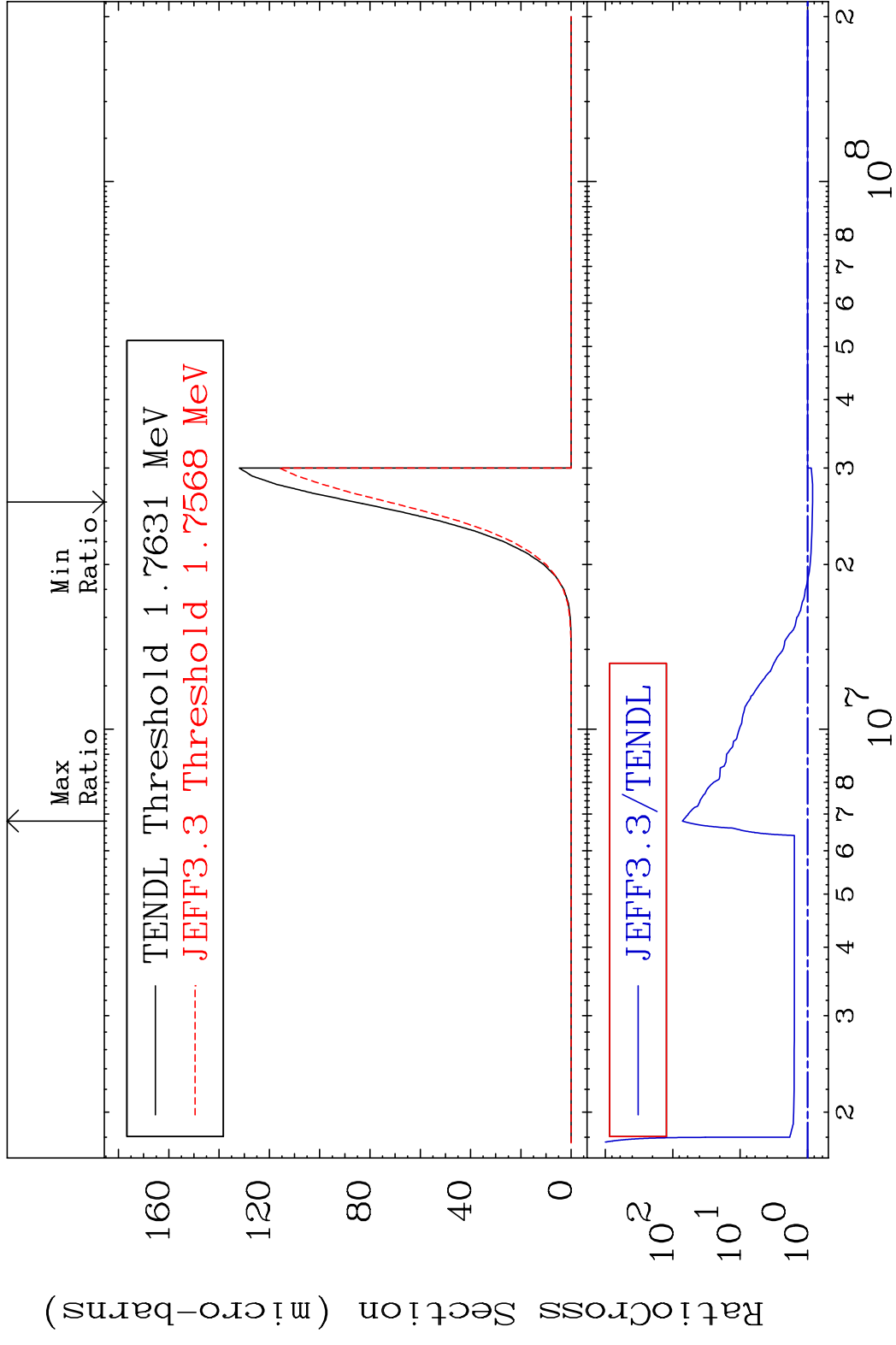
43-Tc-97

MAT 4319

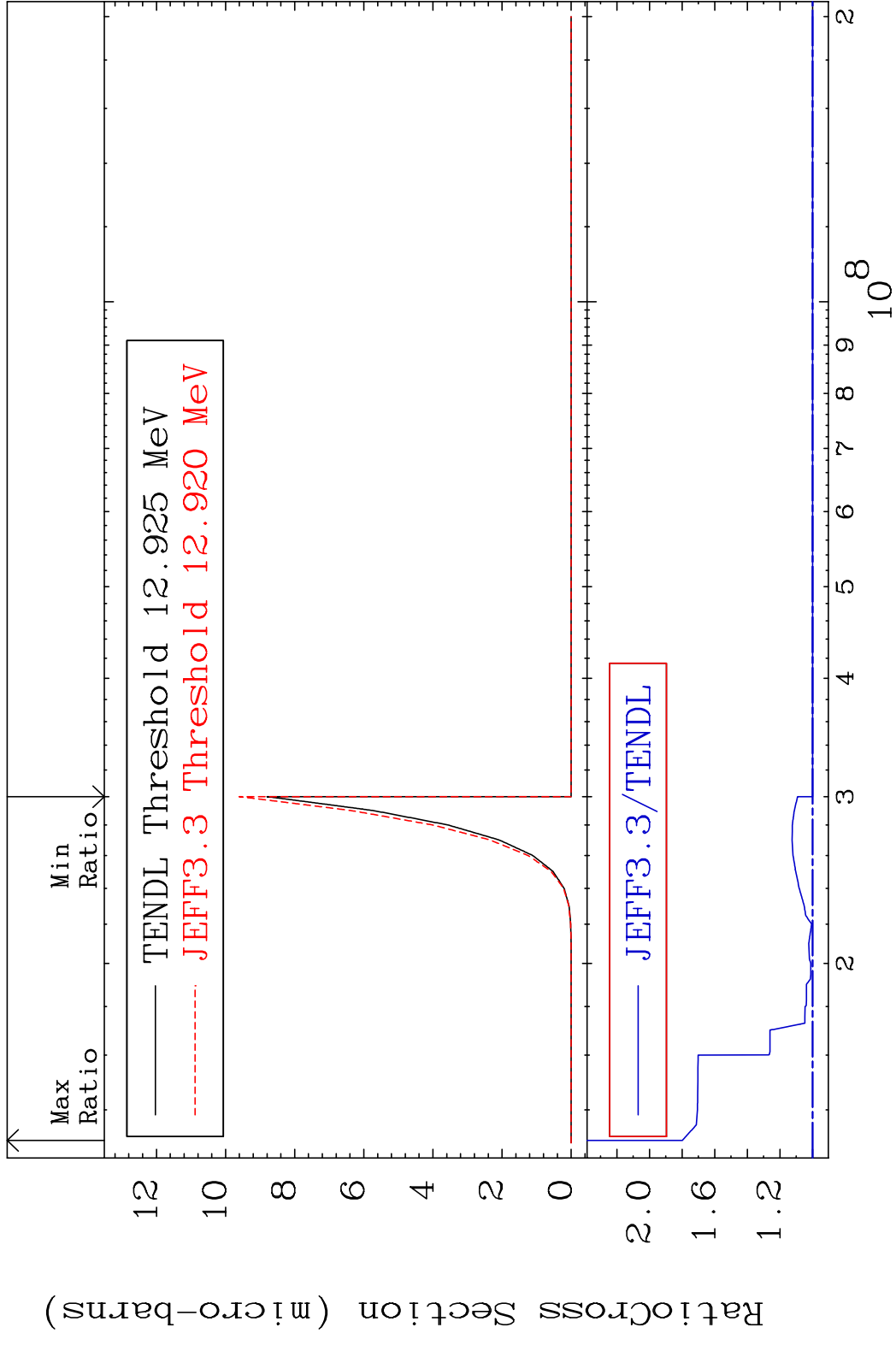
(n,p)  $\alpha$

43-Tc-97

Cross Section -15.67 To 7094. %



MAT 4319 (n,p) d 43-Tc-97  
 Cross Section 0.000 To 79.83 %

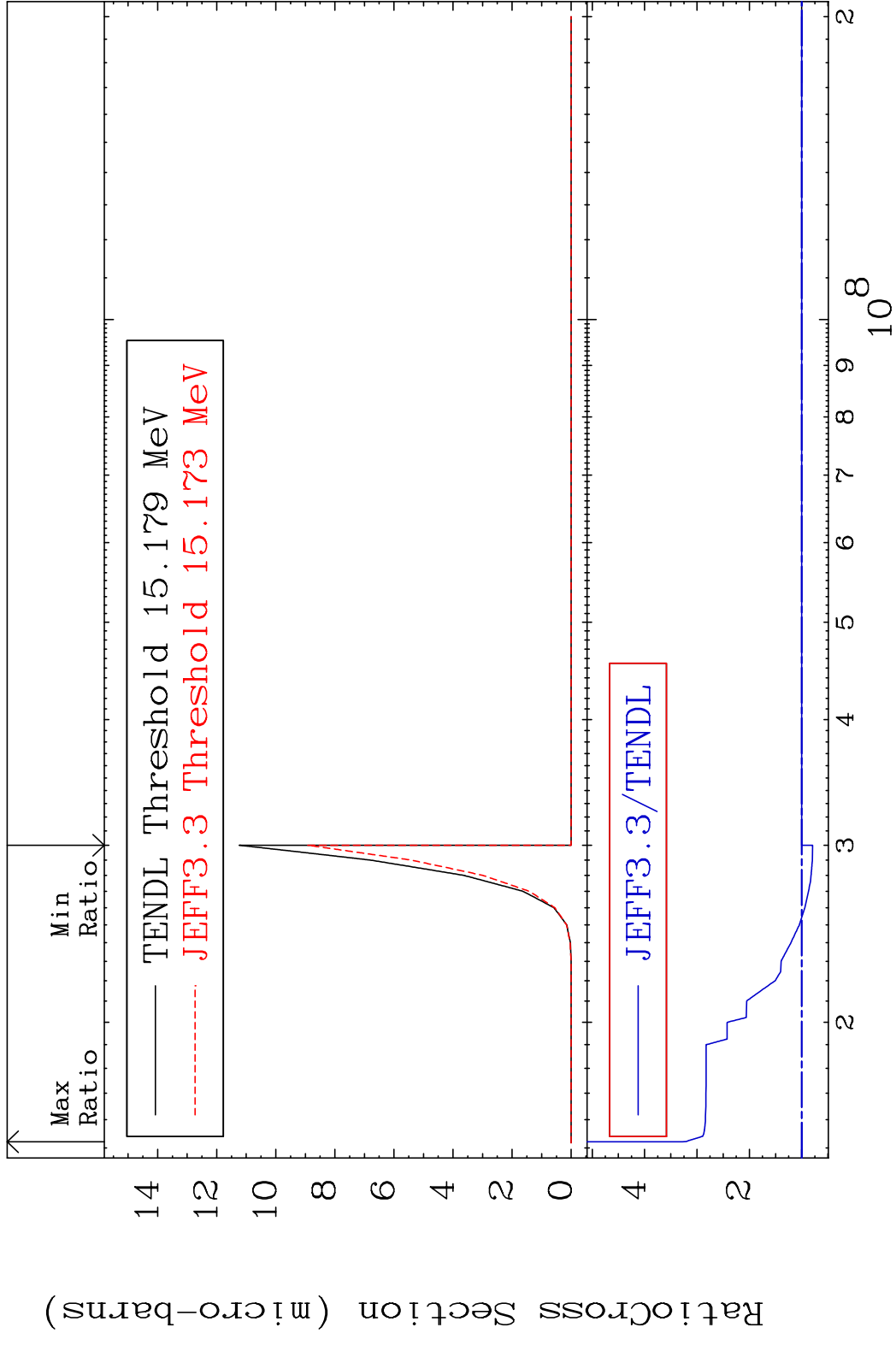


MAT 4319

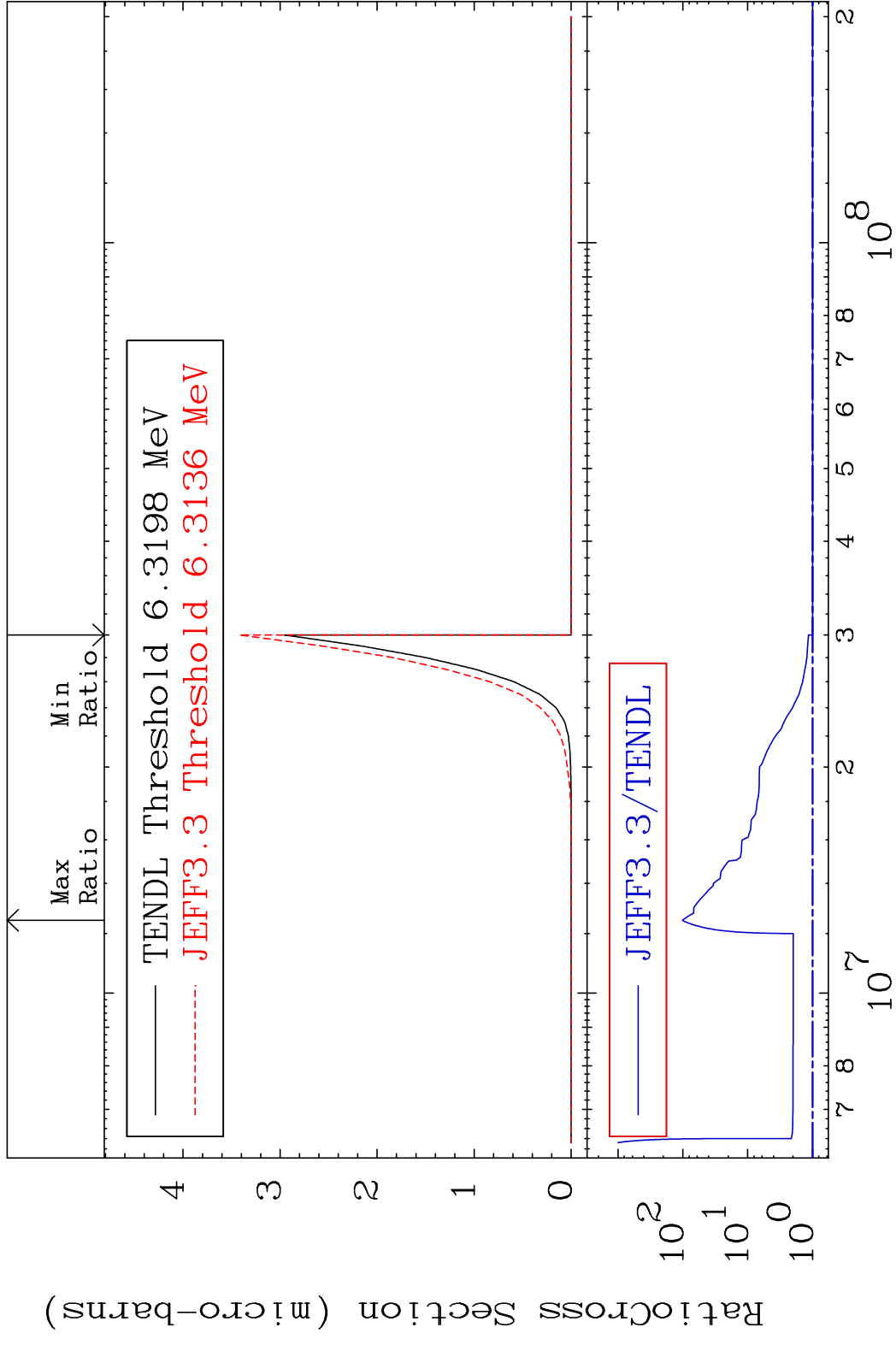
(n,p) t

43-Tc-97

Cross Section -20.62 To 227.9 %



MAT 4319 (n,d)  $\alpha$  43-Tc-97  
 Cross Section 0.000 To 9999. %

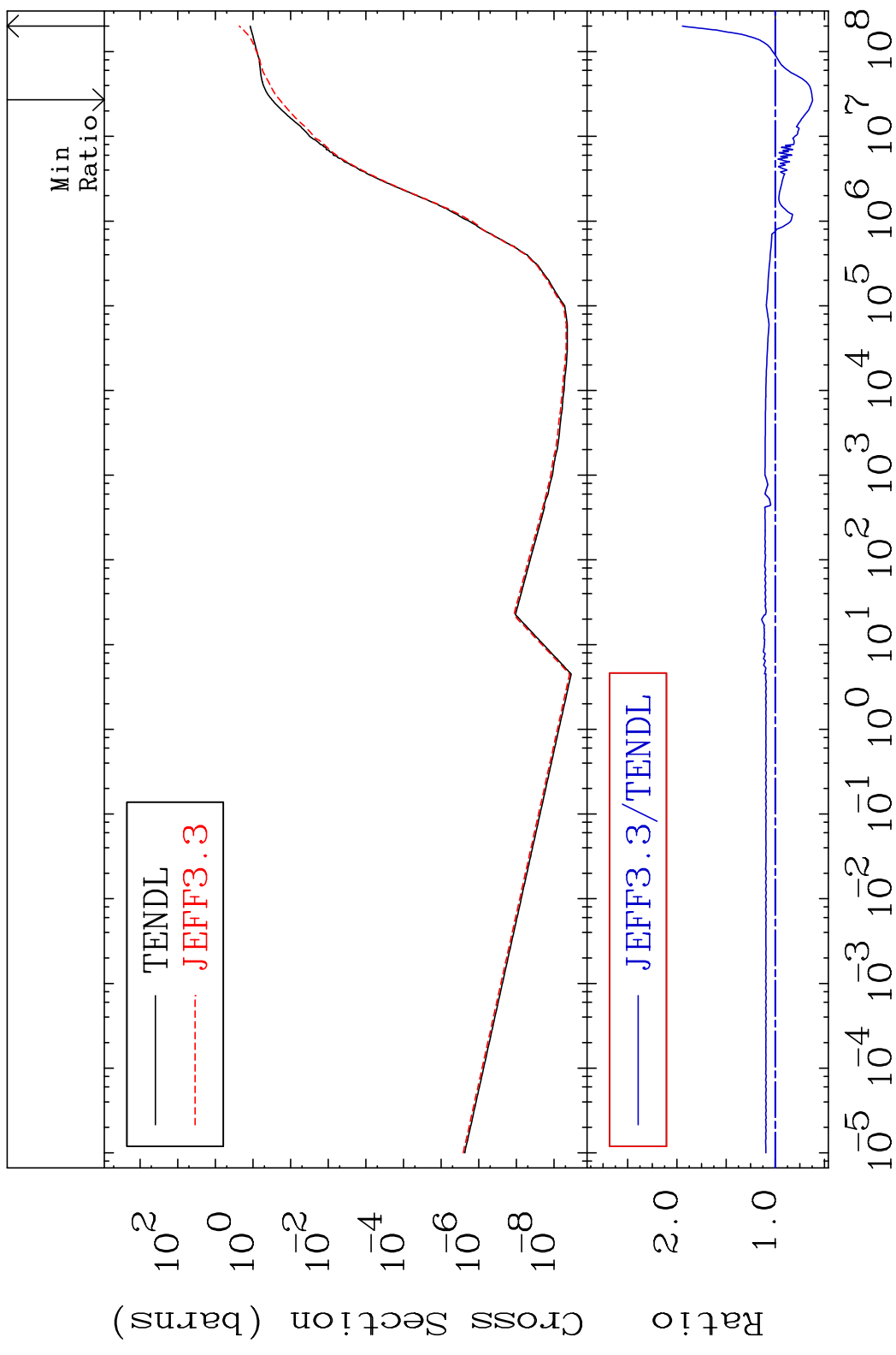


MAT 4319

Hydrogen Production

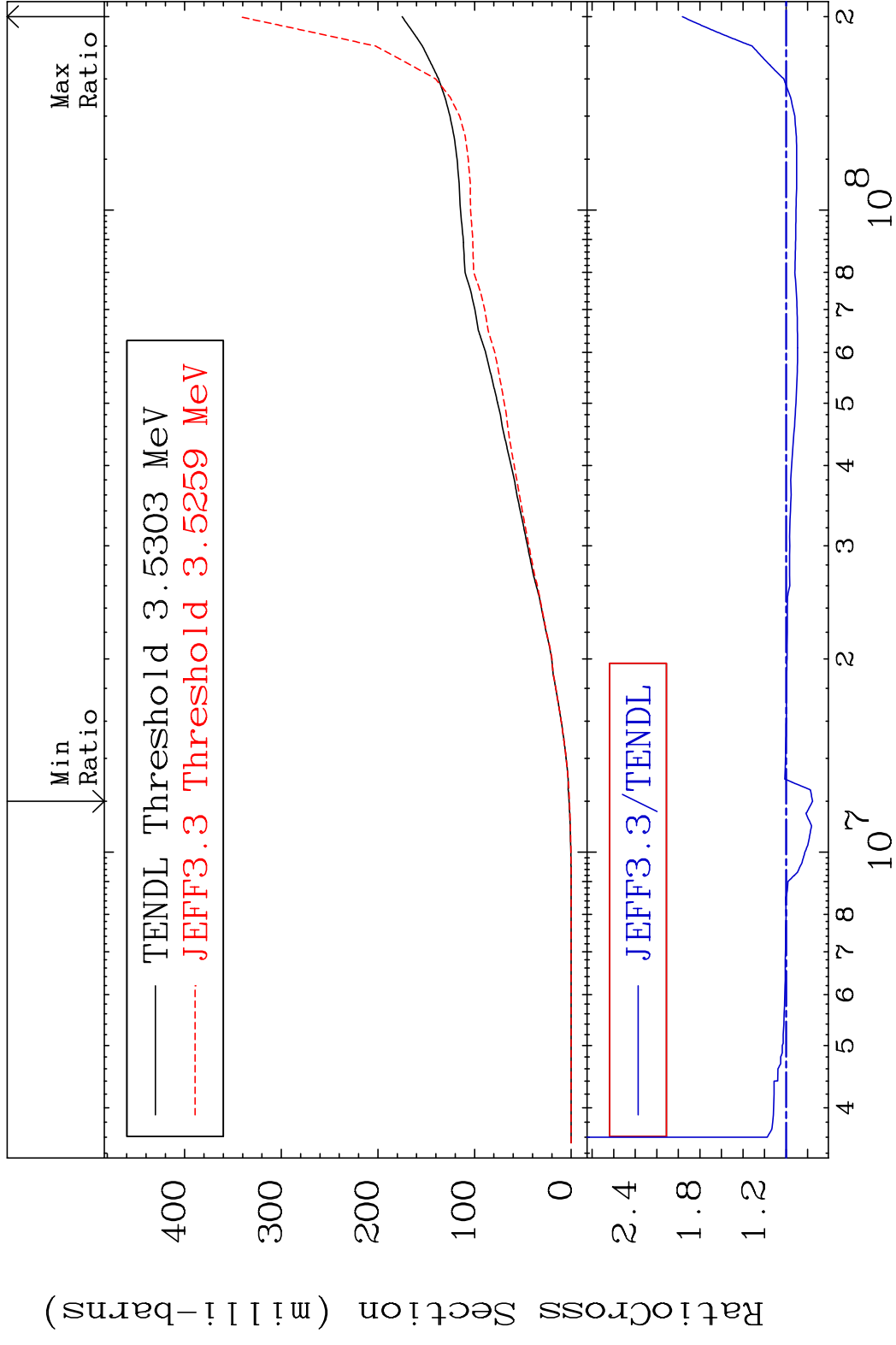
43-Tc-97

Cross Section -37.84 To 94.41 %



MAT 4319

Deuterium Production 43-Tc-97  
Cross Section -24.51 To 96.28 %



64

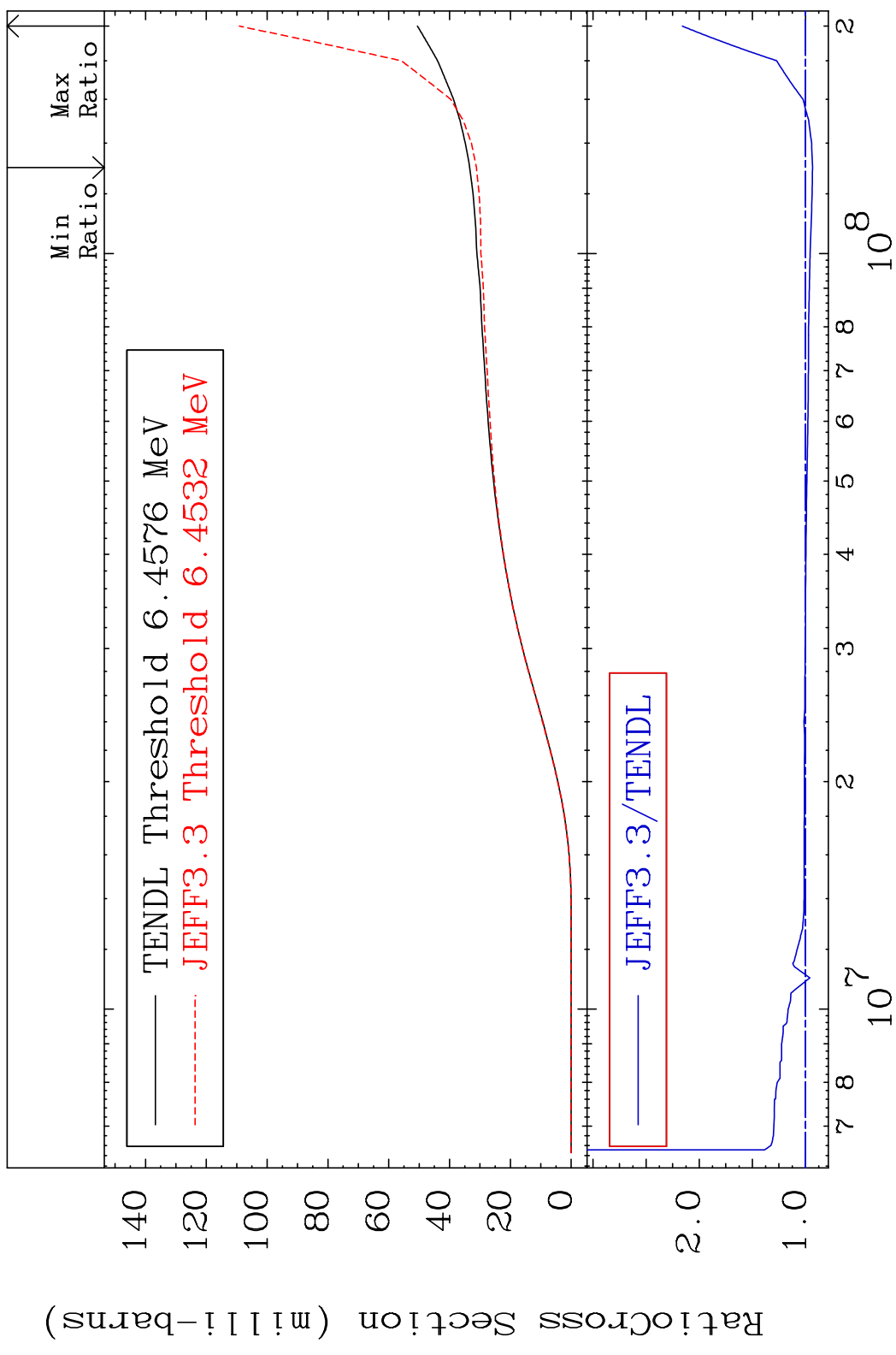
Incident Energy (eV) 43-Tc-97

MAT 4319

Tritium Production

43-Tc-97

Cross Section -6.607 To 115.9 %



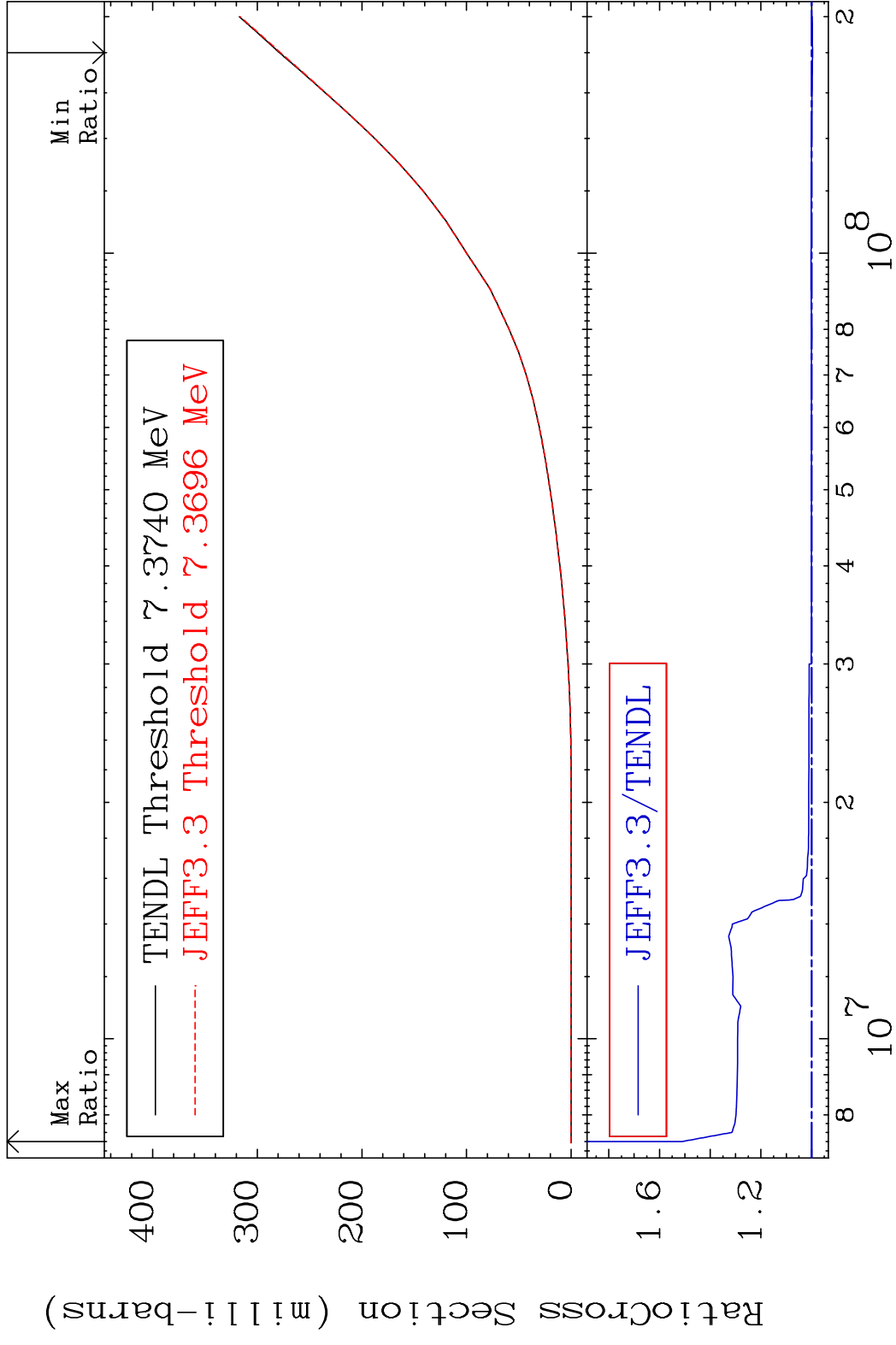
65

MAT 4319

He-3 Production

43-Tc-97

Cross Section -0.360 To 50.98 %



66

Incident Energy (eV)

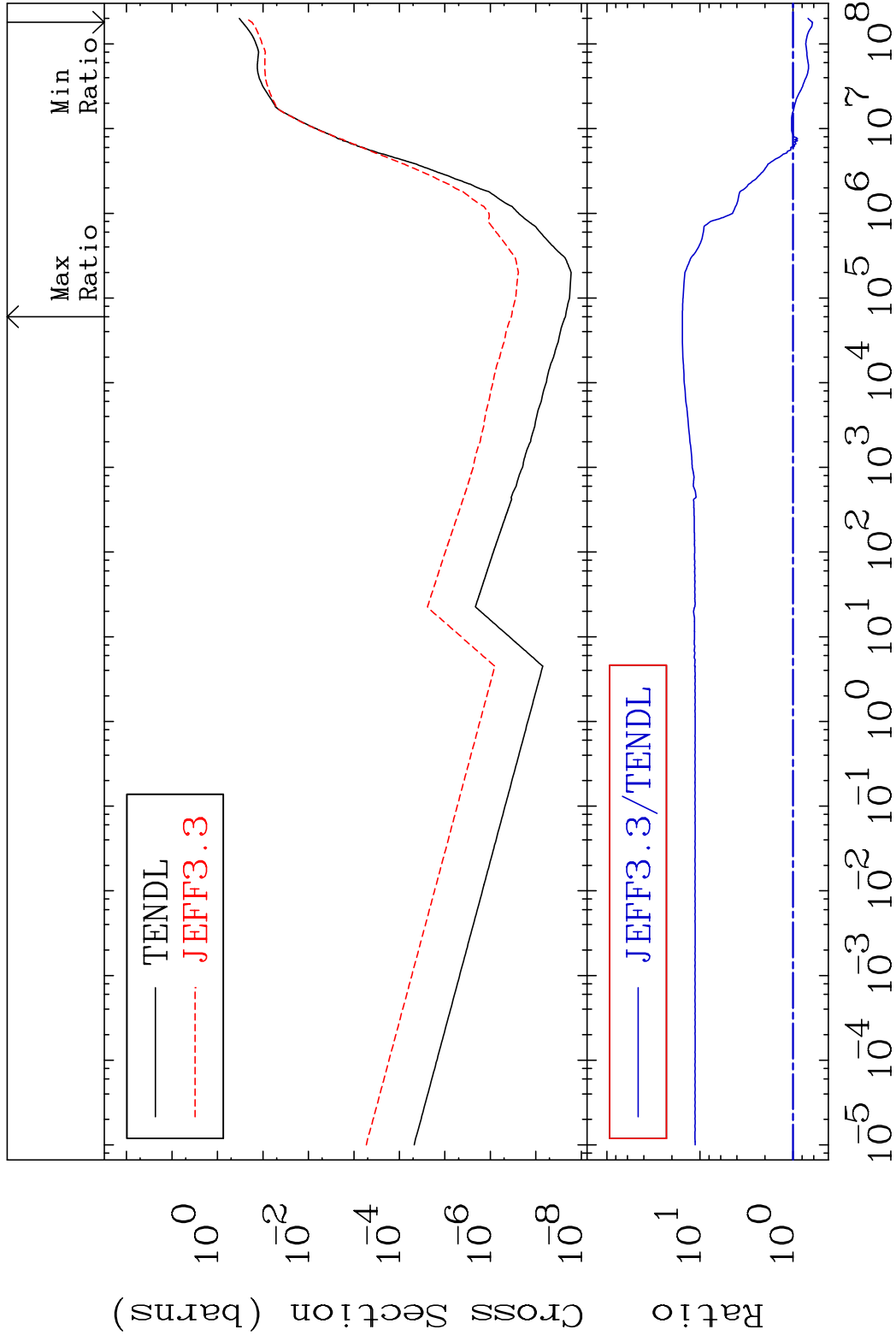
43-Tc-97

MAT 4319

He-4 Production

43-Tc-97

Cross Section -38.25 To 1445. %

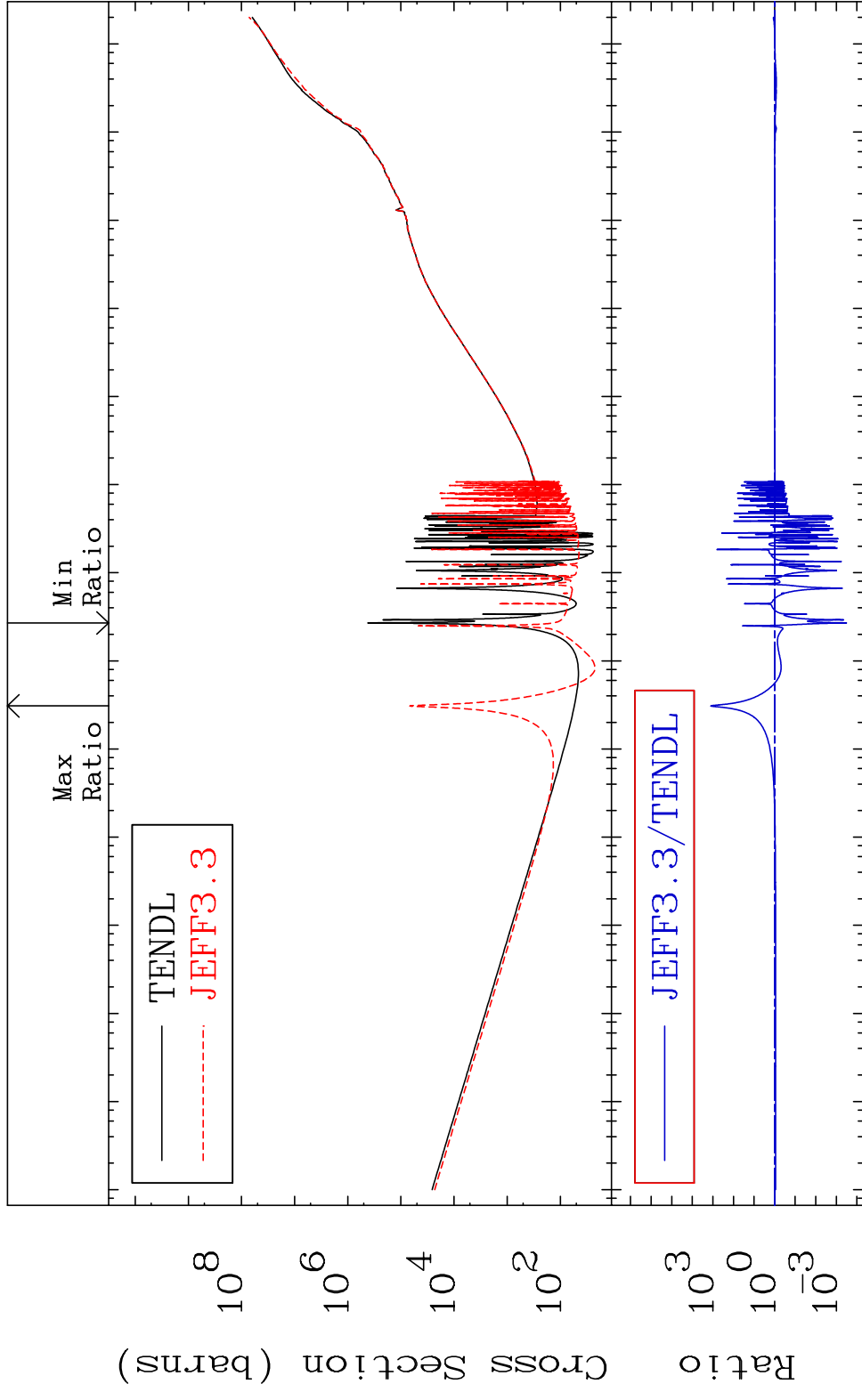


67

Incident Energy (eV)

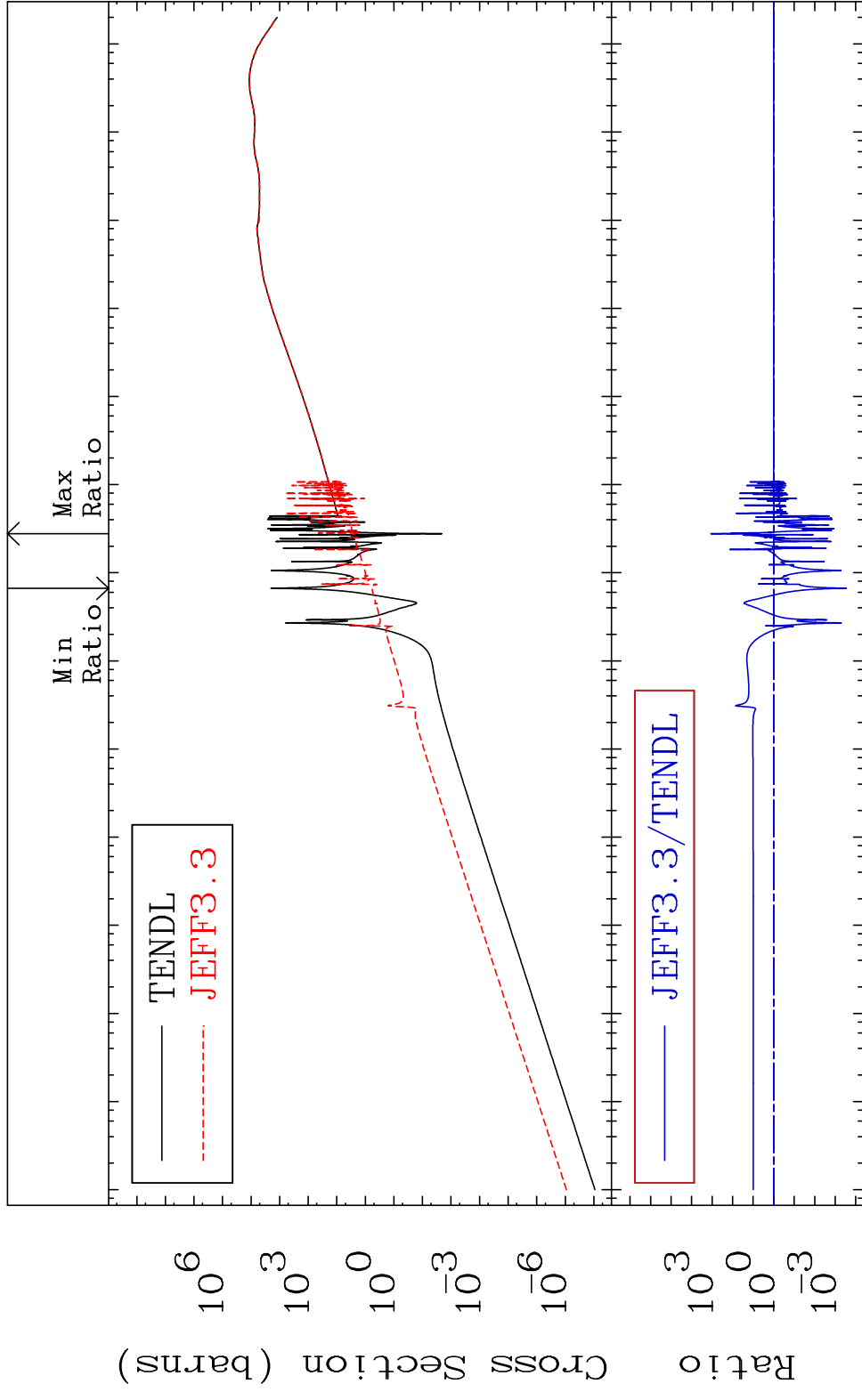
43-Tc-97

MAT 4319 Kerma total (eV-barns) 43-Tc-97  
 Cross Section -99.97 To 9999. %

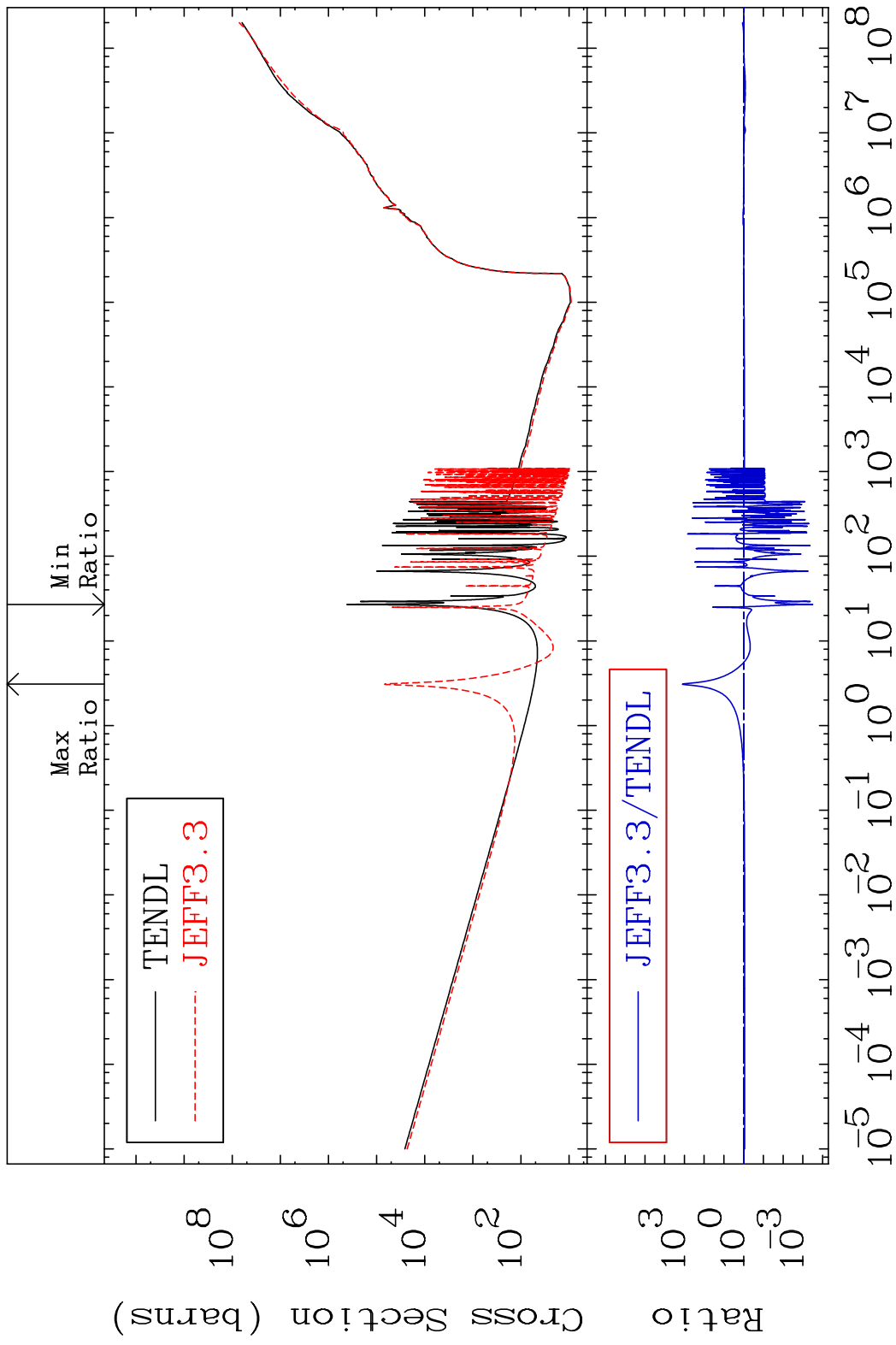


68 Incident Energy (eV) 43-Tc-97

MAT 4319 Kerma elastic Cross Section -99.97 To 9999. % 43-Tc-97

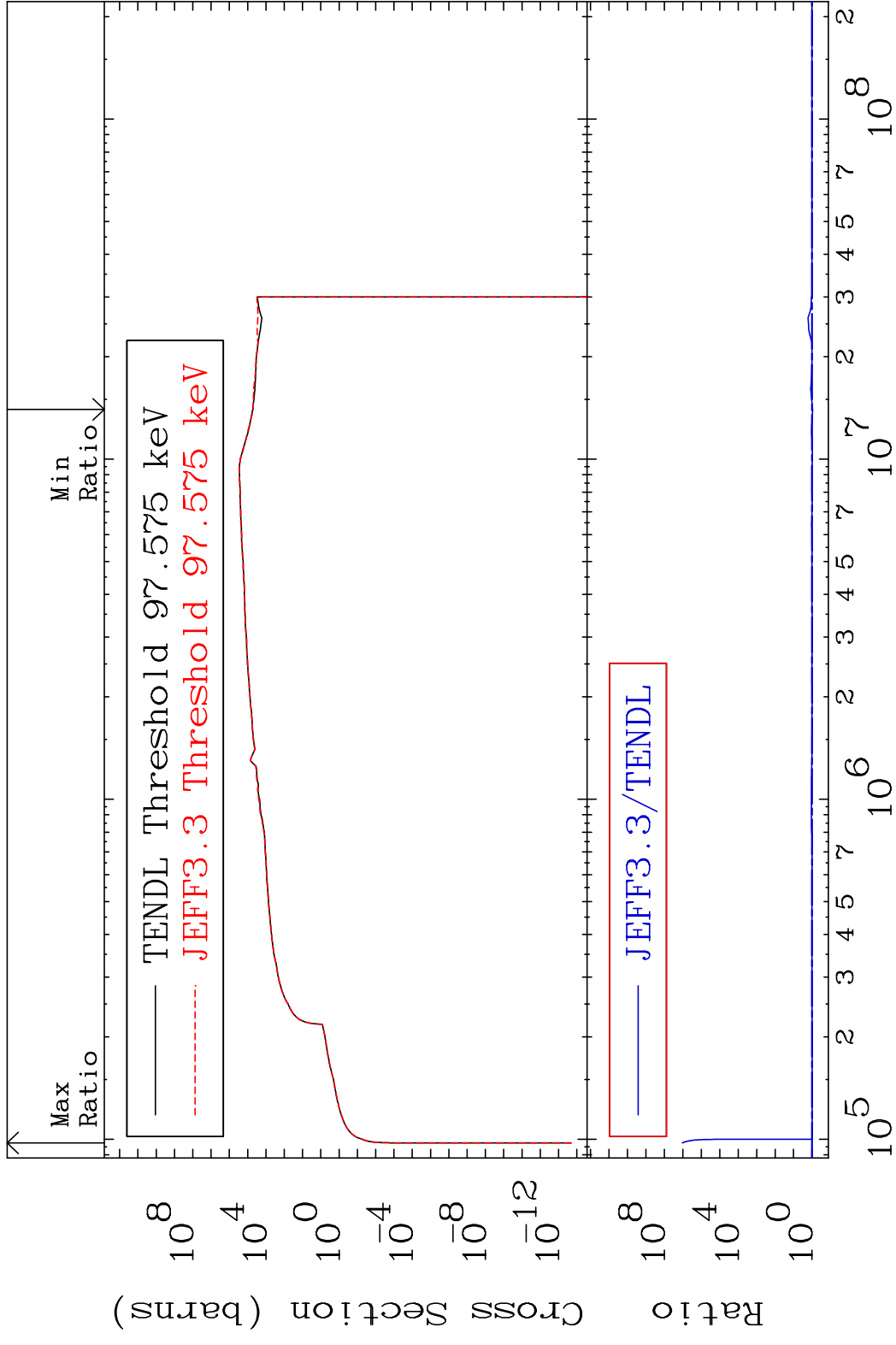


MAT 4319 Kerma non-elastic (all but mt2) 43-Tc-97  
 Cross Section -99.97 To 9999. %

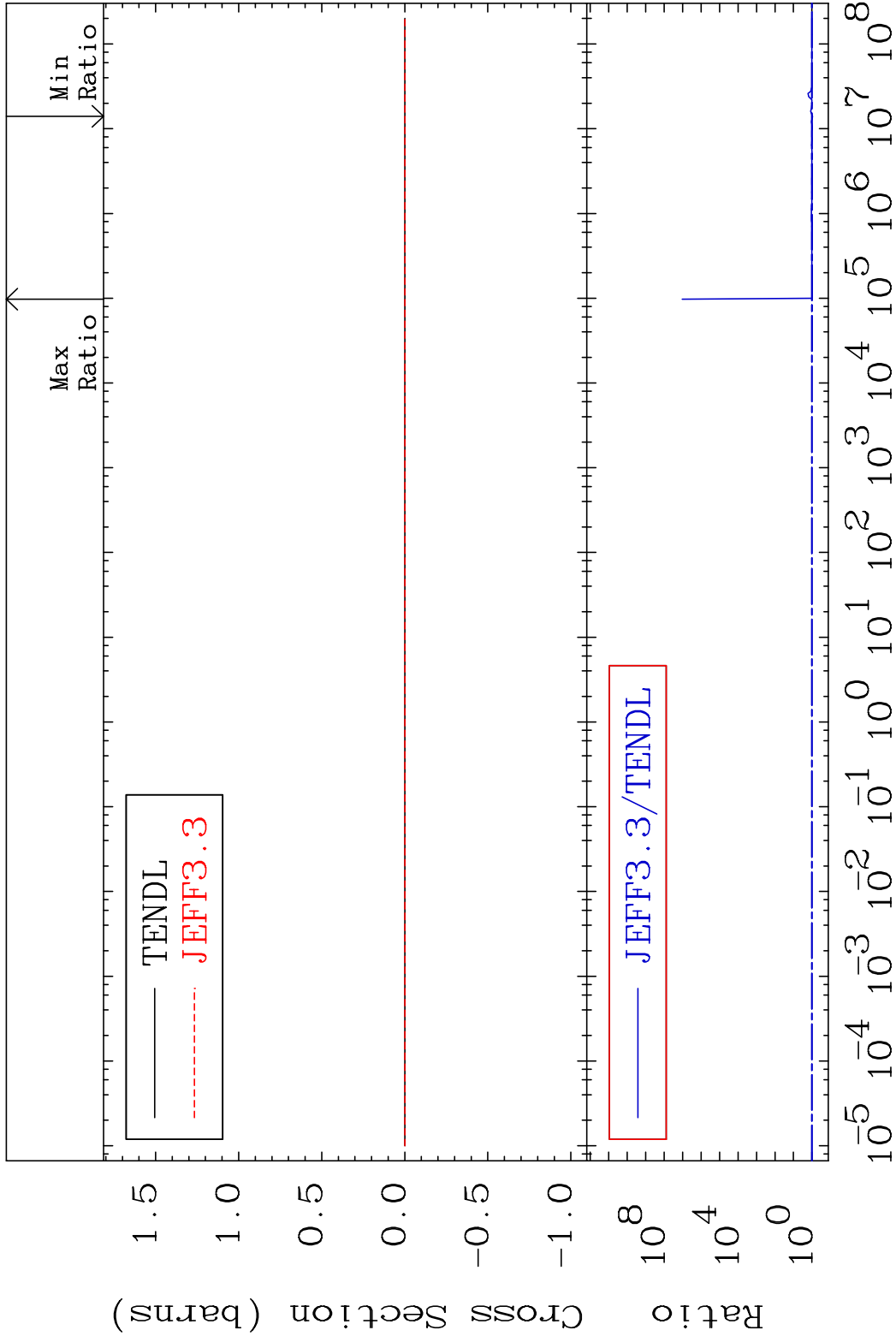


70 Incident Energy (eV) 43-Tc-97

MAT 4319 Kerma inelastic (mt51-91) 43-Tc-97  
 Cross Section -6.475 To 9999. %



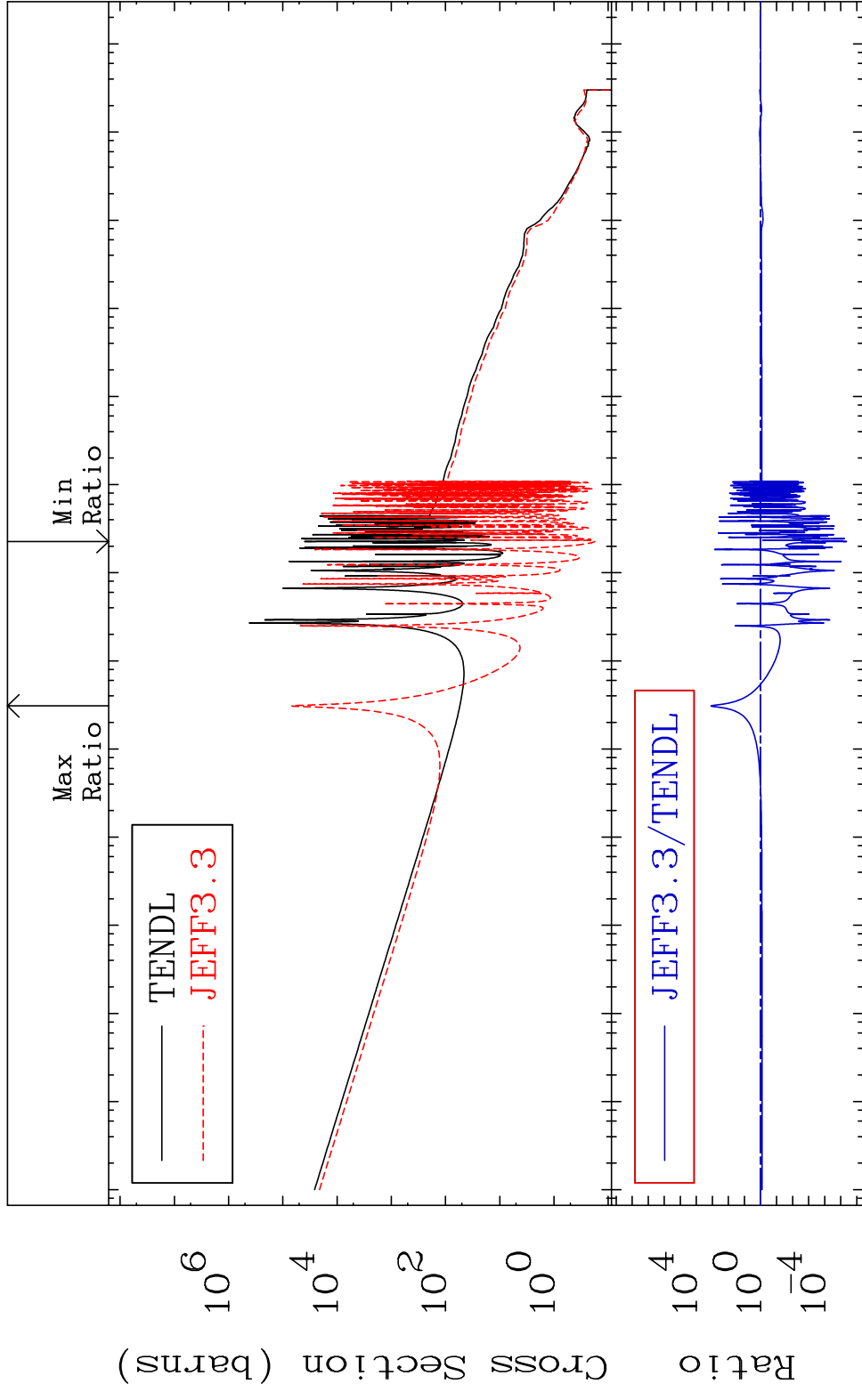
MAT 4319 Kerma fission (mt18 or mt19-20-21-38) 43-Tc-97  
 Cross Section -6.475 To 9999. %



MAT 4319

Kerma capture (mt102) 43-Tc-97

Cross Section -100.0 To 9999. %



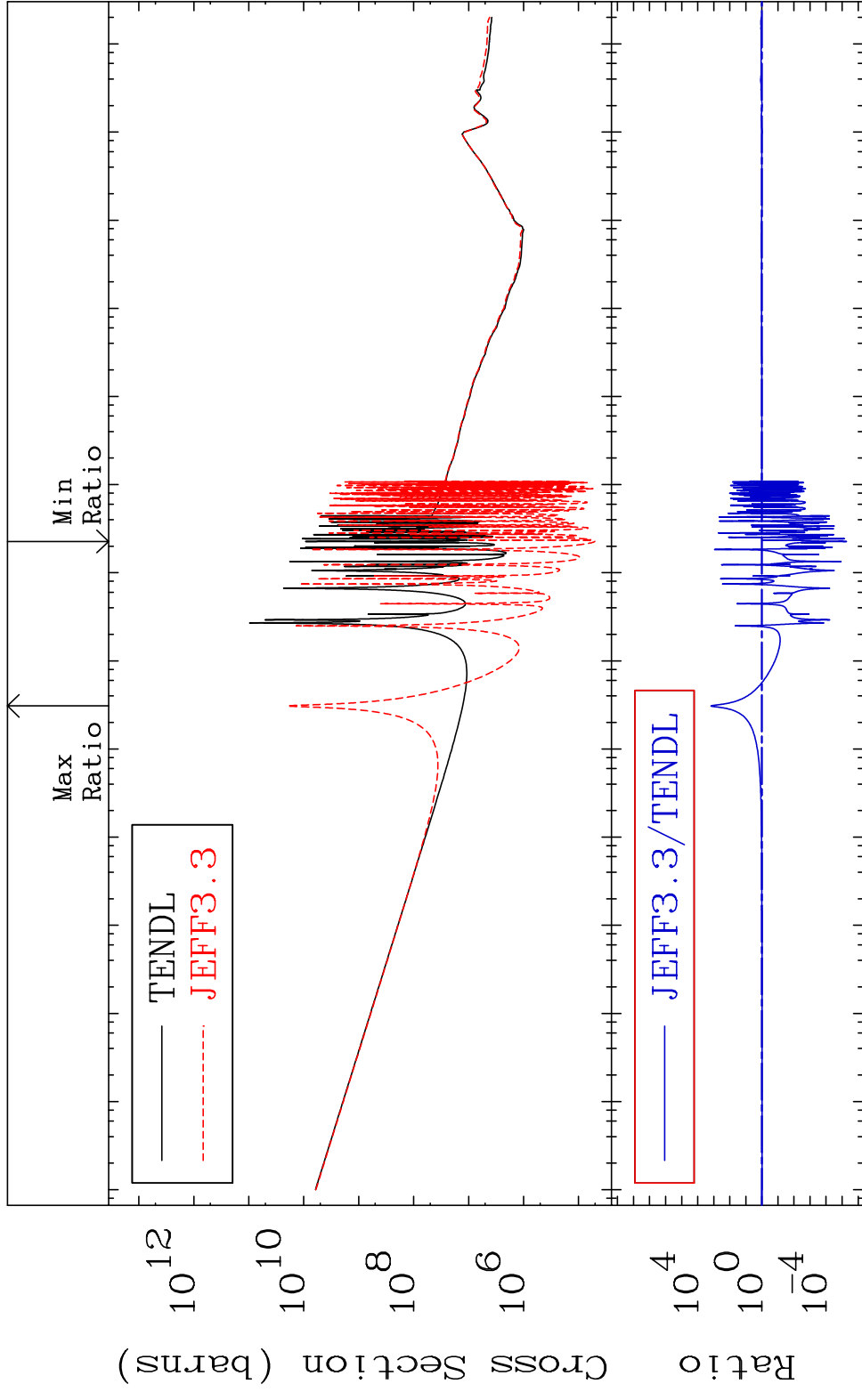
Ratio  
10<sup>6</sup>  
10<sup>4</sup>  
10<sup>2</sup>  
10<sup>0</sup>  
10<sup>-4</sup>  
10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

73

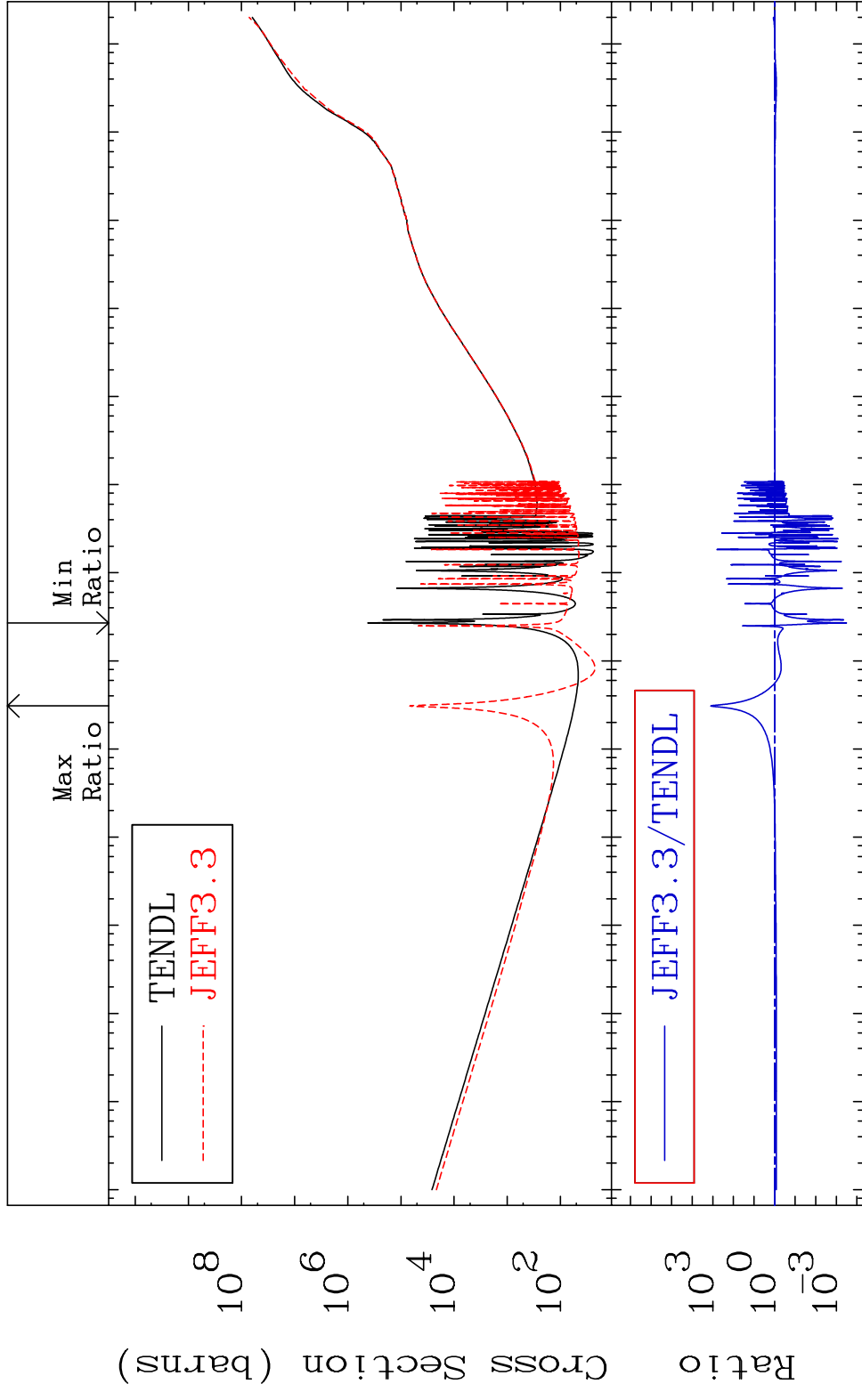
Incident Energy (eV)

43-Tc-97

MAT 4319 Total photon (eV-barns) 43-Tc-97  
 Cross Section -100.0 To 9999. %

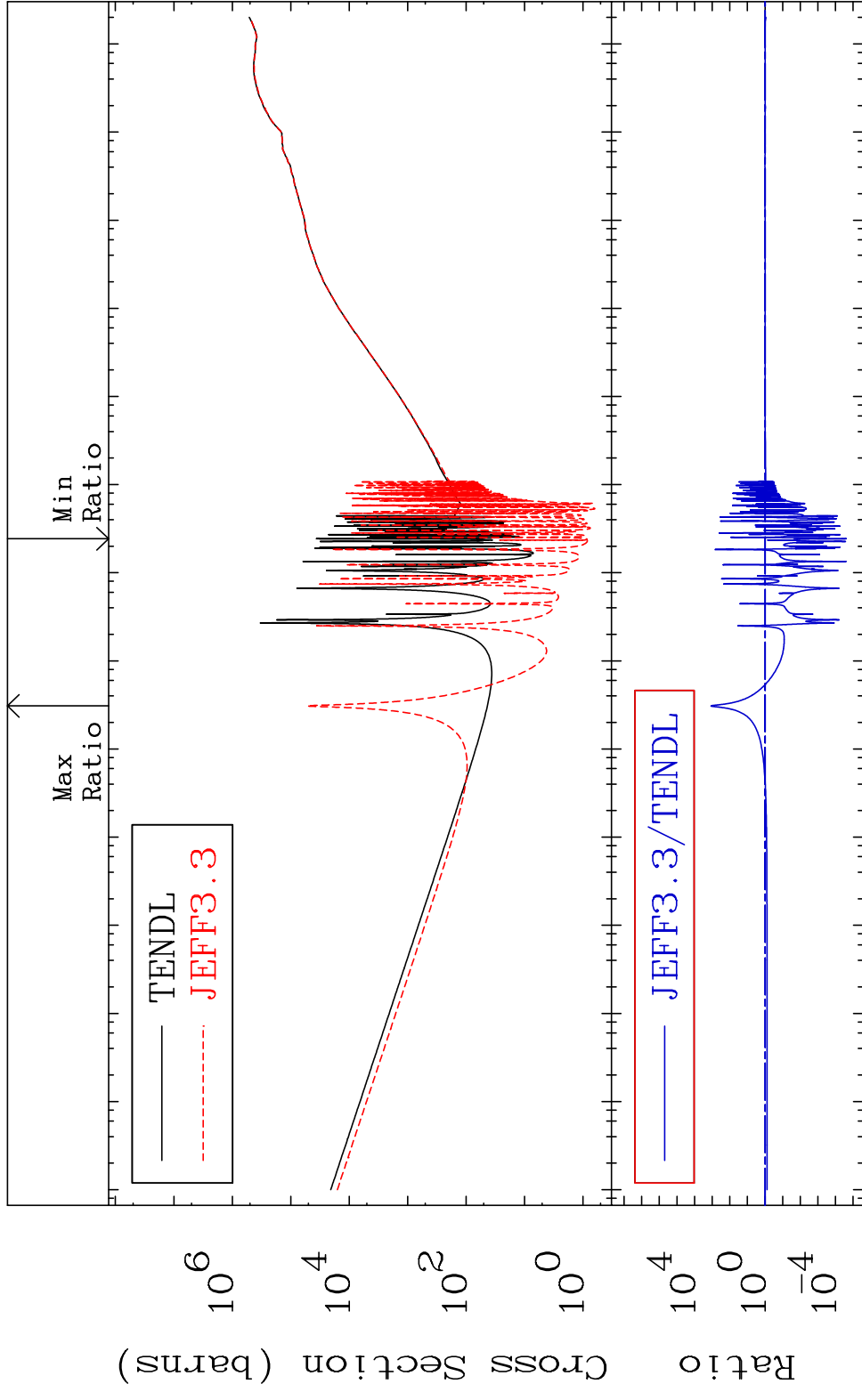


MAT 4319 Total kinematic kerma (high limit) 43-Tc-97  
 Cross Section -99.97 To 9999. %



75 Incident Energy (eV) 43-Tc-97

MAT 4319      Dpa total (eV-barns)      43-Tc-97  
 Cross Section      -100.0 To 9999. %

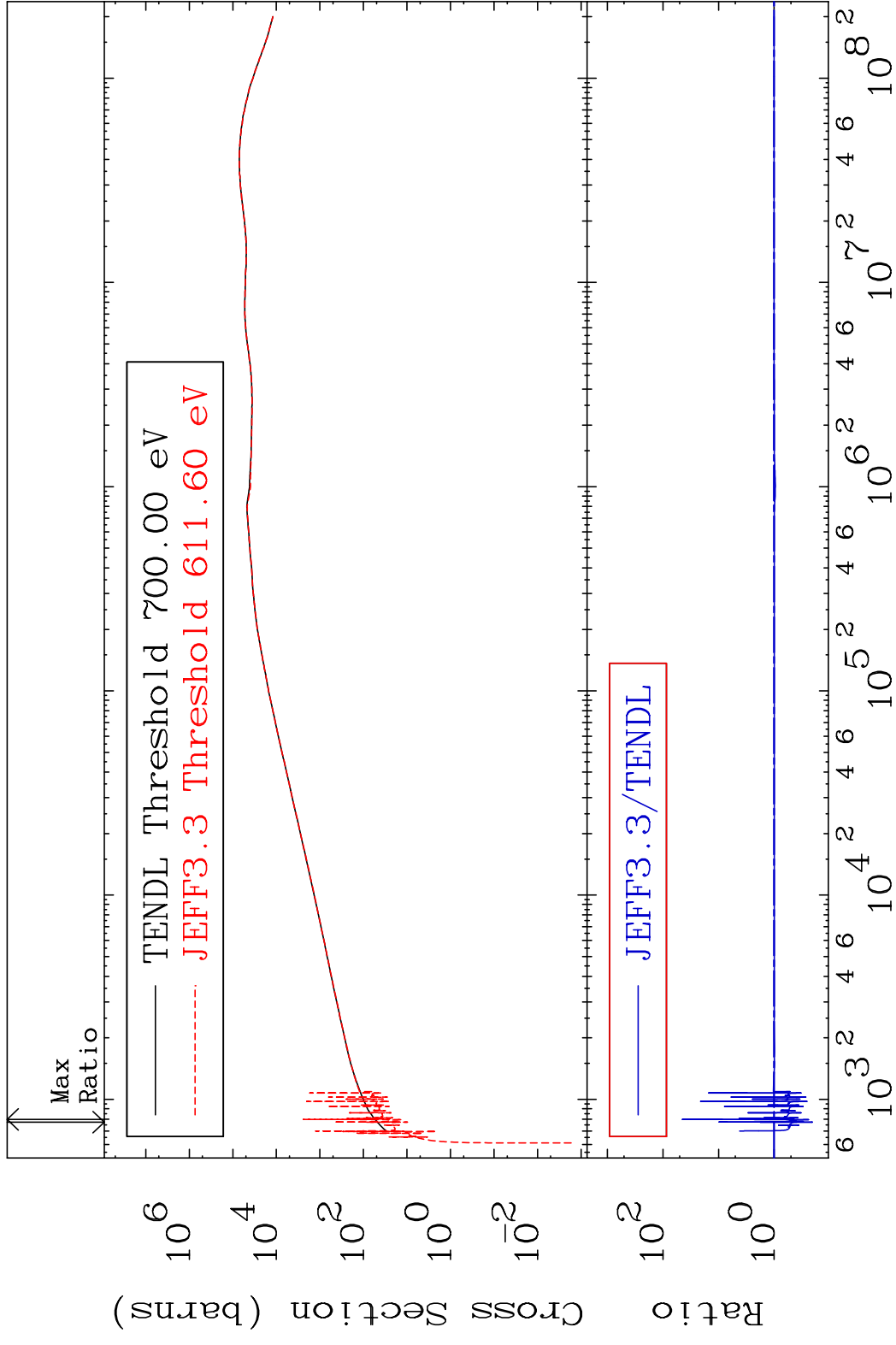


MAT 4319

Dpa elastic (mt2)

43-Tc-97

Cross Section -79.62 To 4379. %



77

Incident Energy (eV)

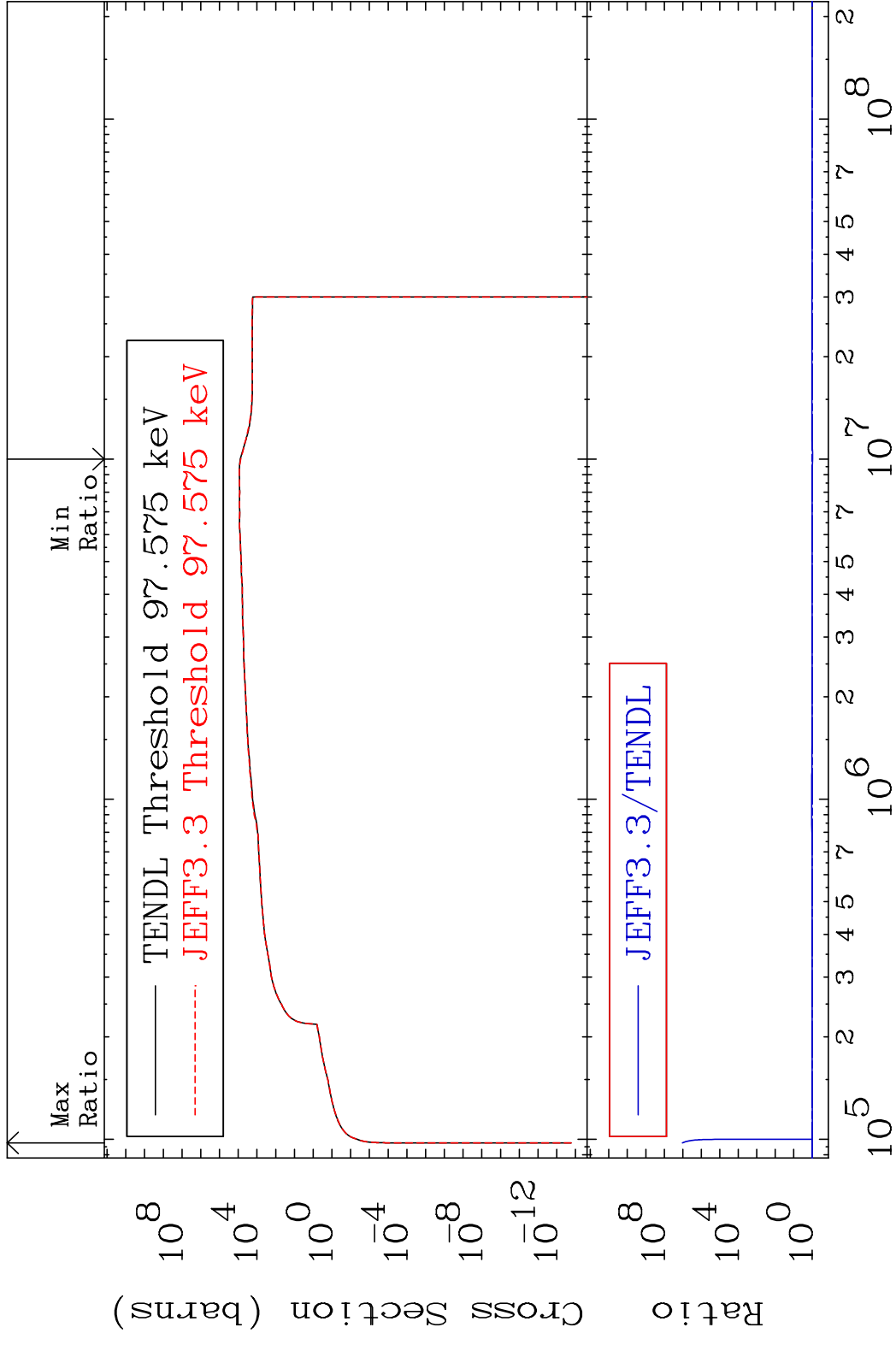
43-Tc-97

MAT 4319

Dpa inelastic (mt51-91)

43-Tc-97

Cross Section -4.472 To 9999. %

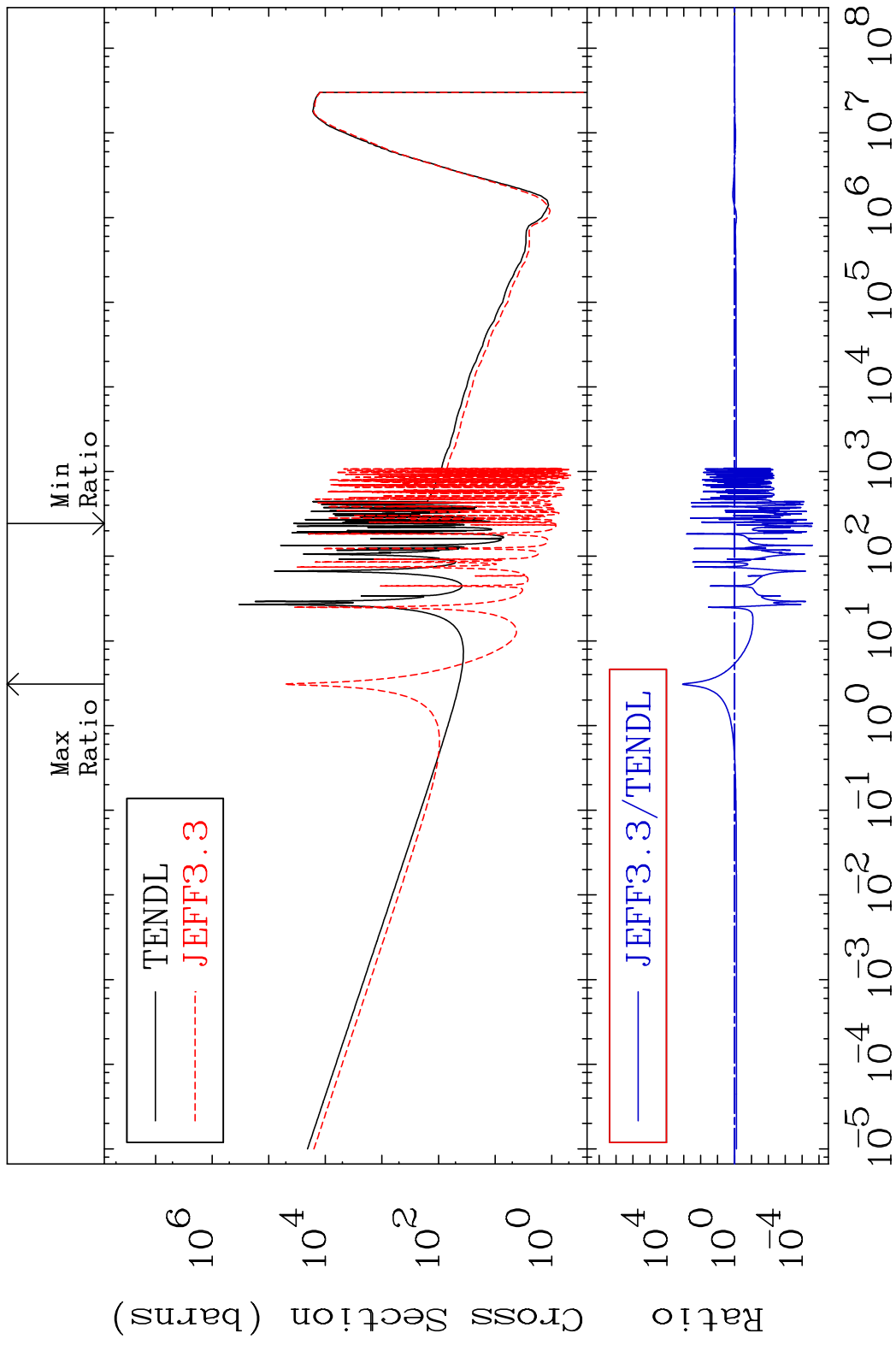


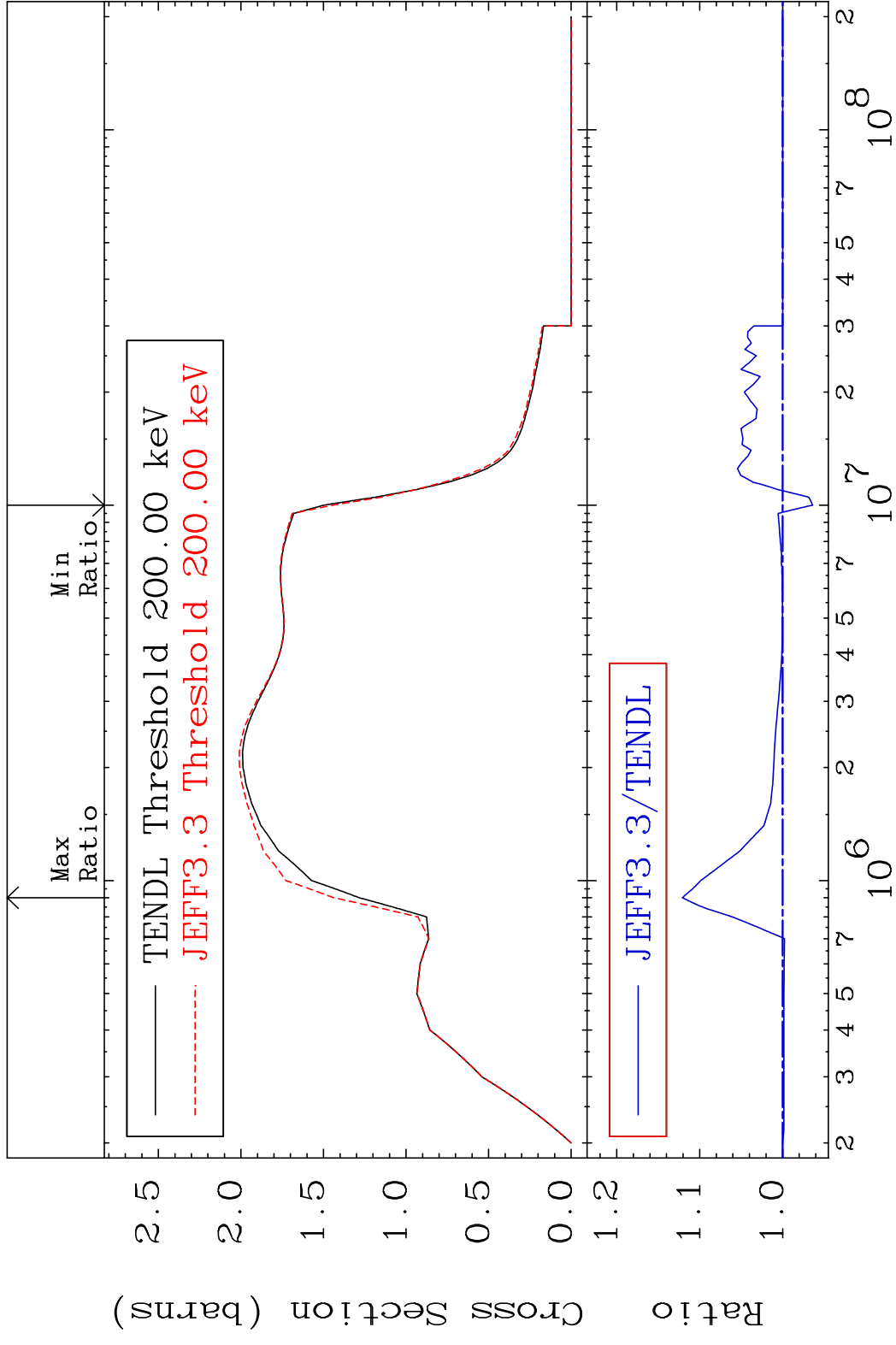
78

Incident Energy (eV)

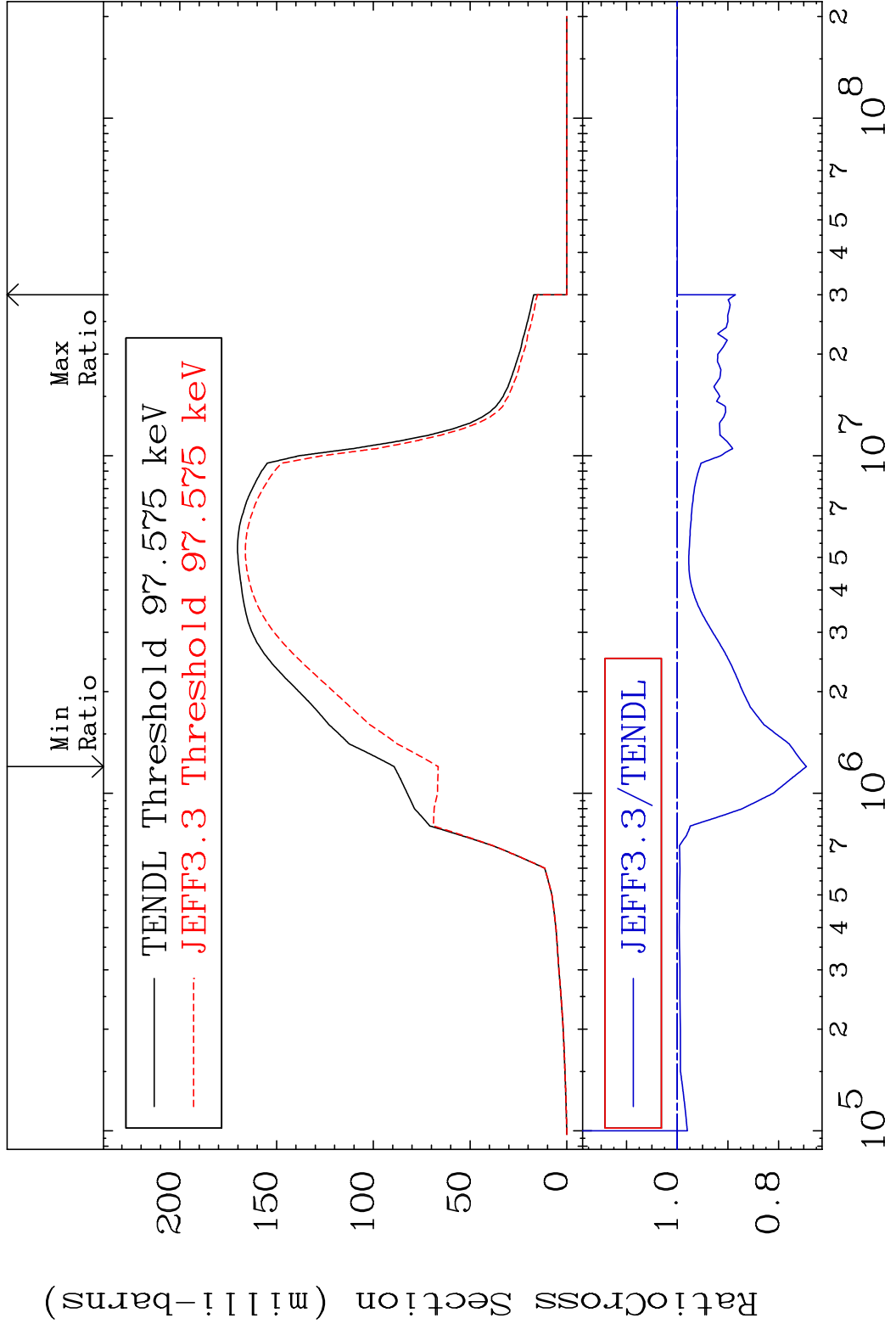
43-Tc-97

MAT 4319 Dpa disappearance (mt102 -120) 43-Tc-97  
 Cross Section -100.0 To 9999. %

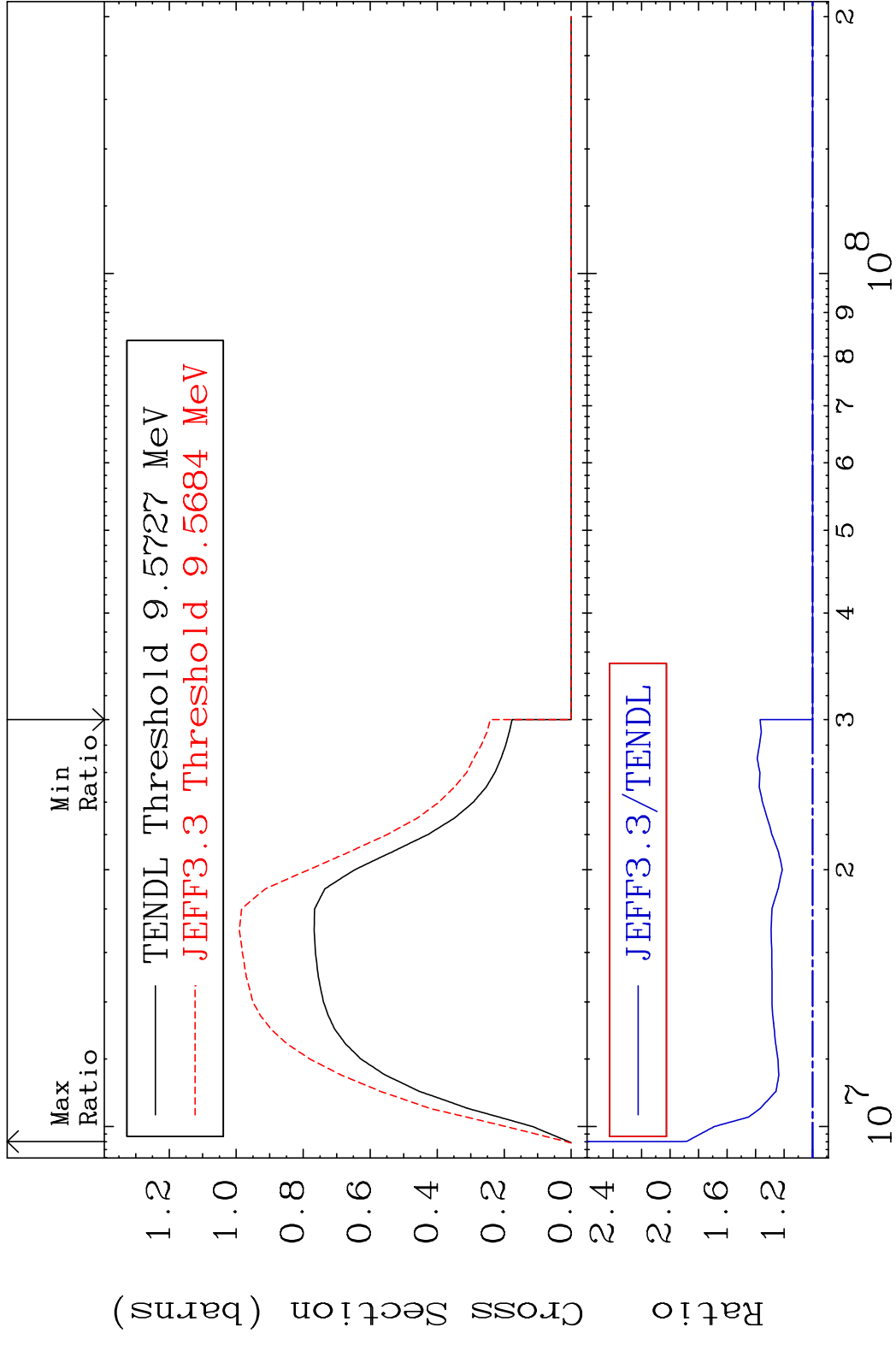




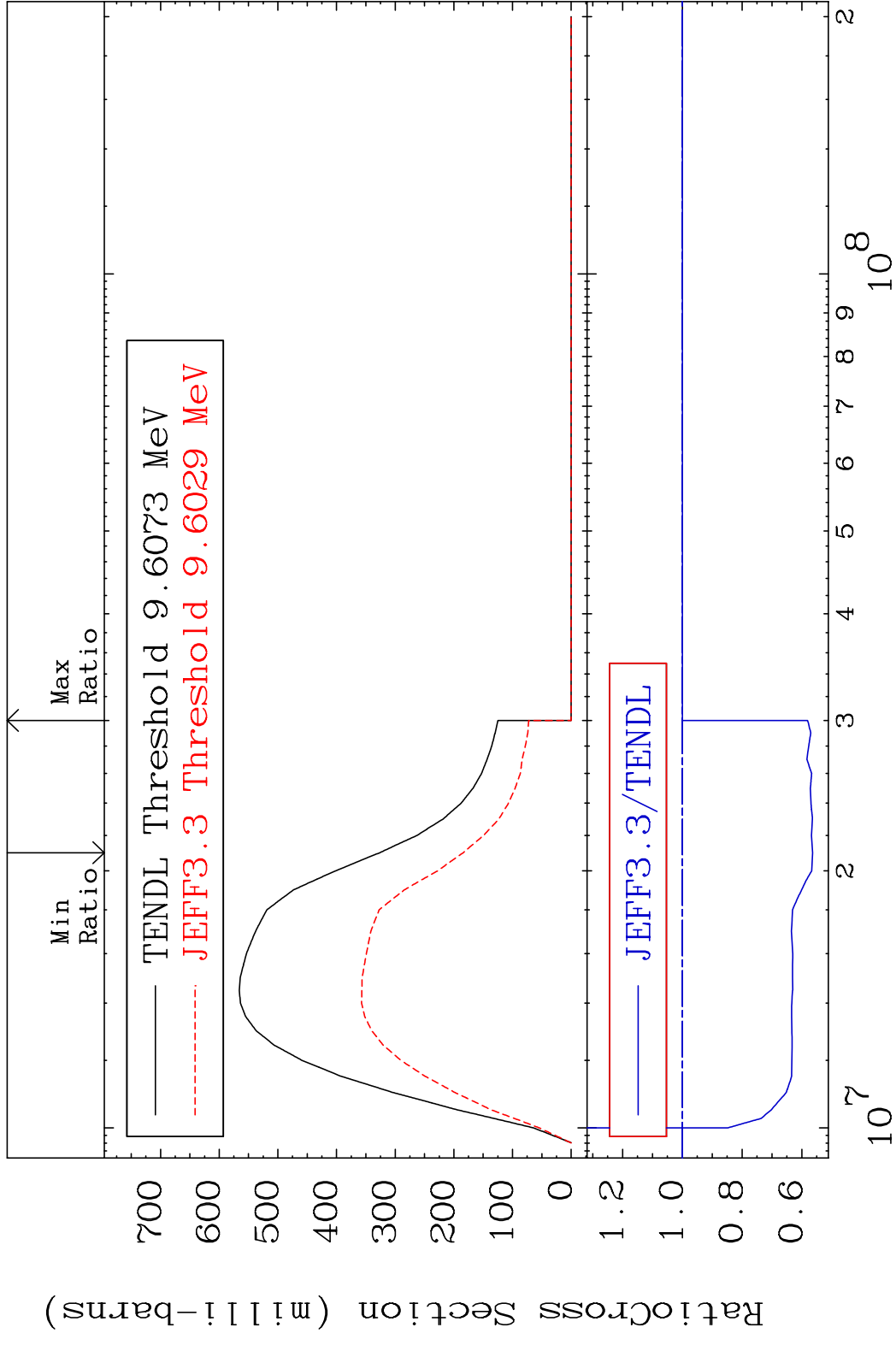
MAT 4319 Inelastic: 43-Tc-97m1 43-Tc-97  
 Radionuclide Production Cross Section 0.000 %



81 Incident Energy (eV) 43-Tc-97

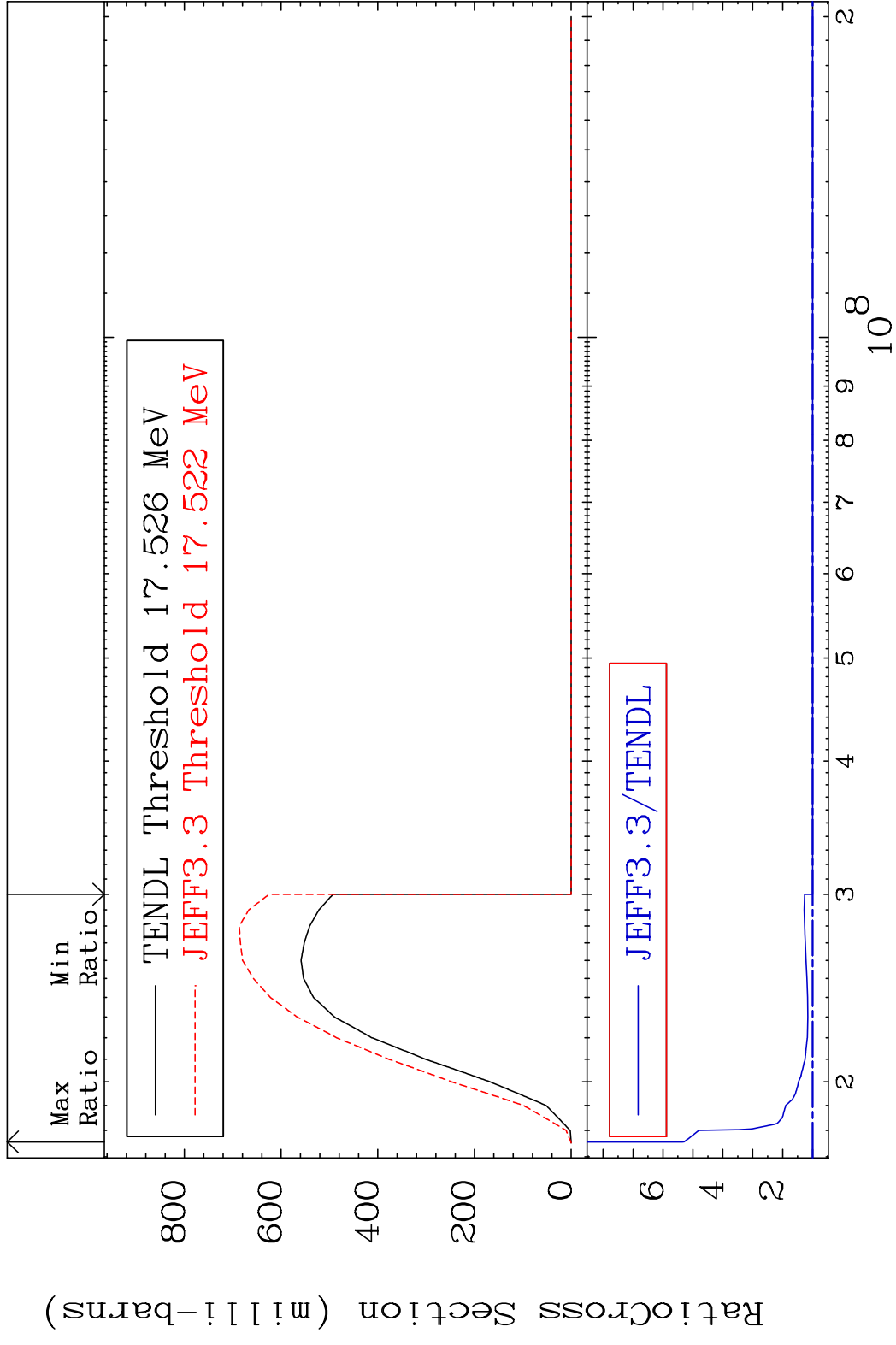


MAT 4319 (n,2n):43-Tc-96m1 43-Tc-97  
 Radionuclide Production Cross Section 0.000 %

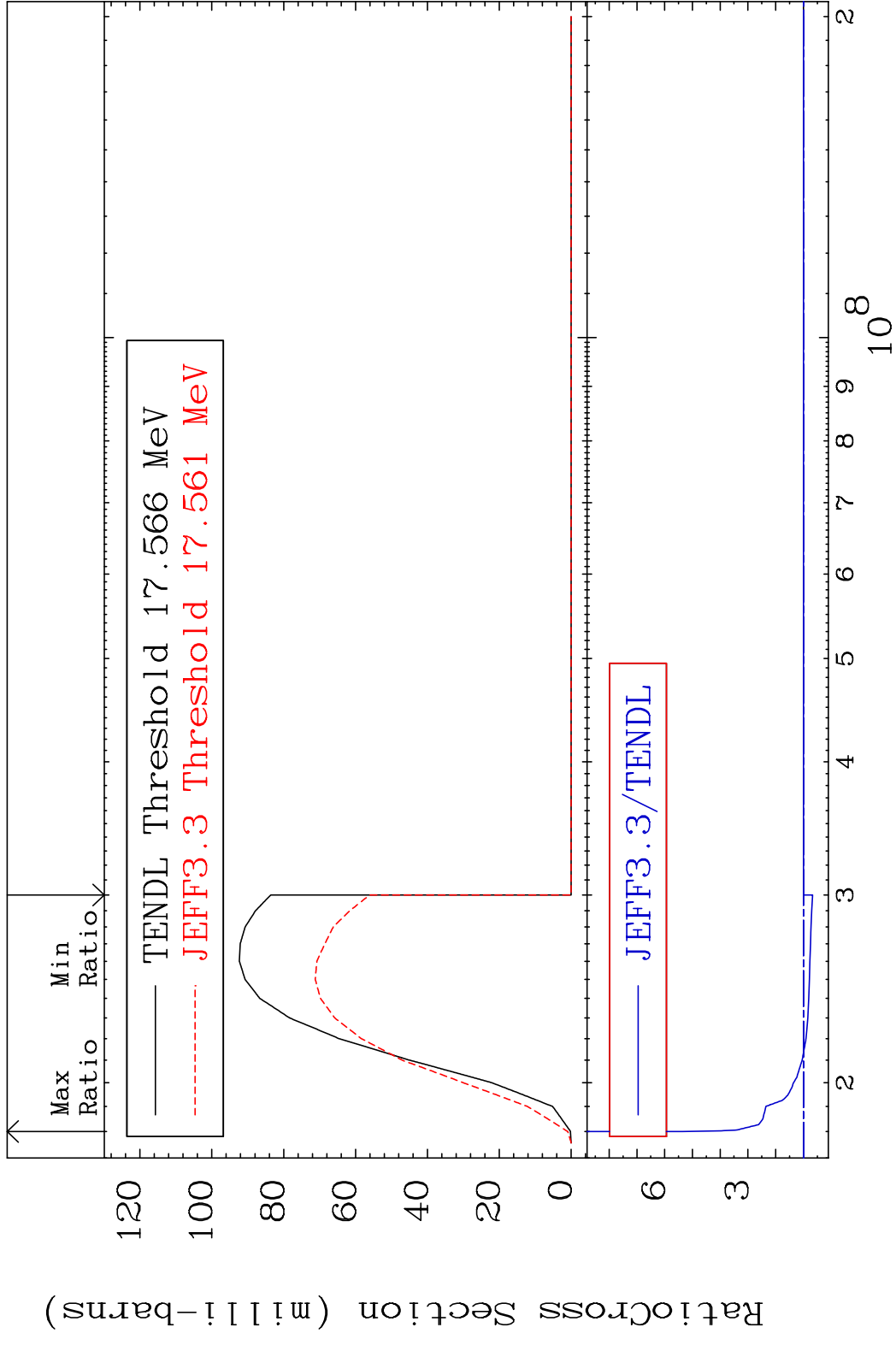


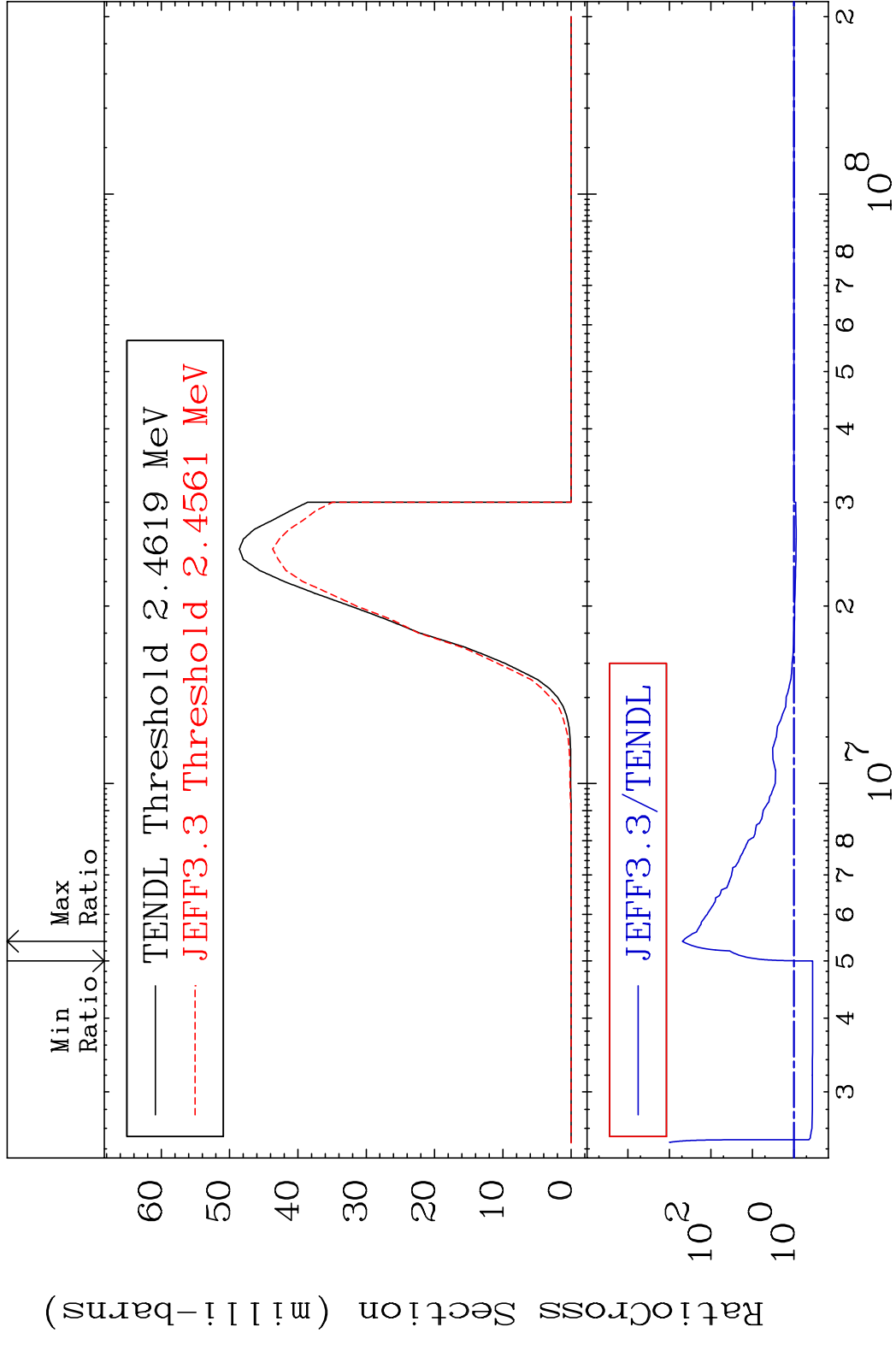
83 Incident Energy (eV) 43-Tc-97

MAT 4319 (n,3n):43-Tc-95g 43-Tc-97  
 Radionuclide Production Cross Section 435.2 %

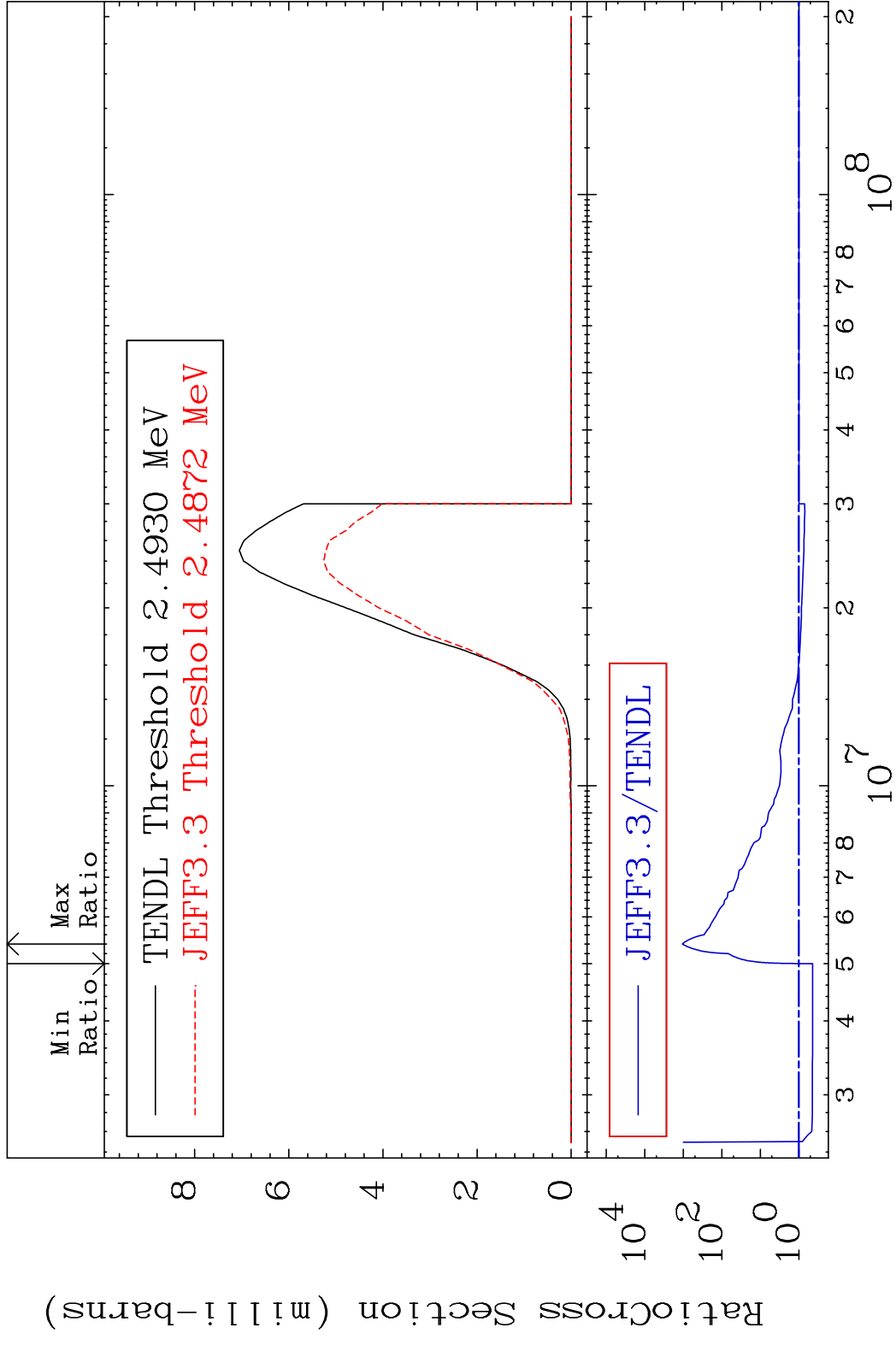


MAT 4319 (n,3n):43-Tc-95m1 43-Tc-97  
 Radionuclide Production Cross Section 32.95 d10 436.2 %

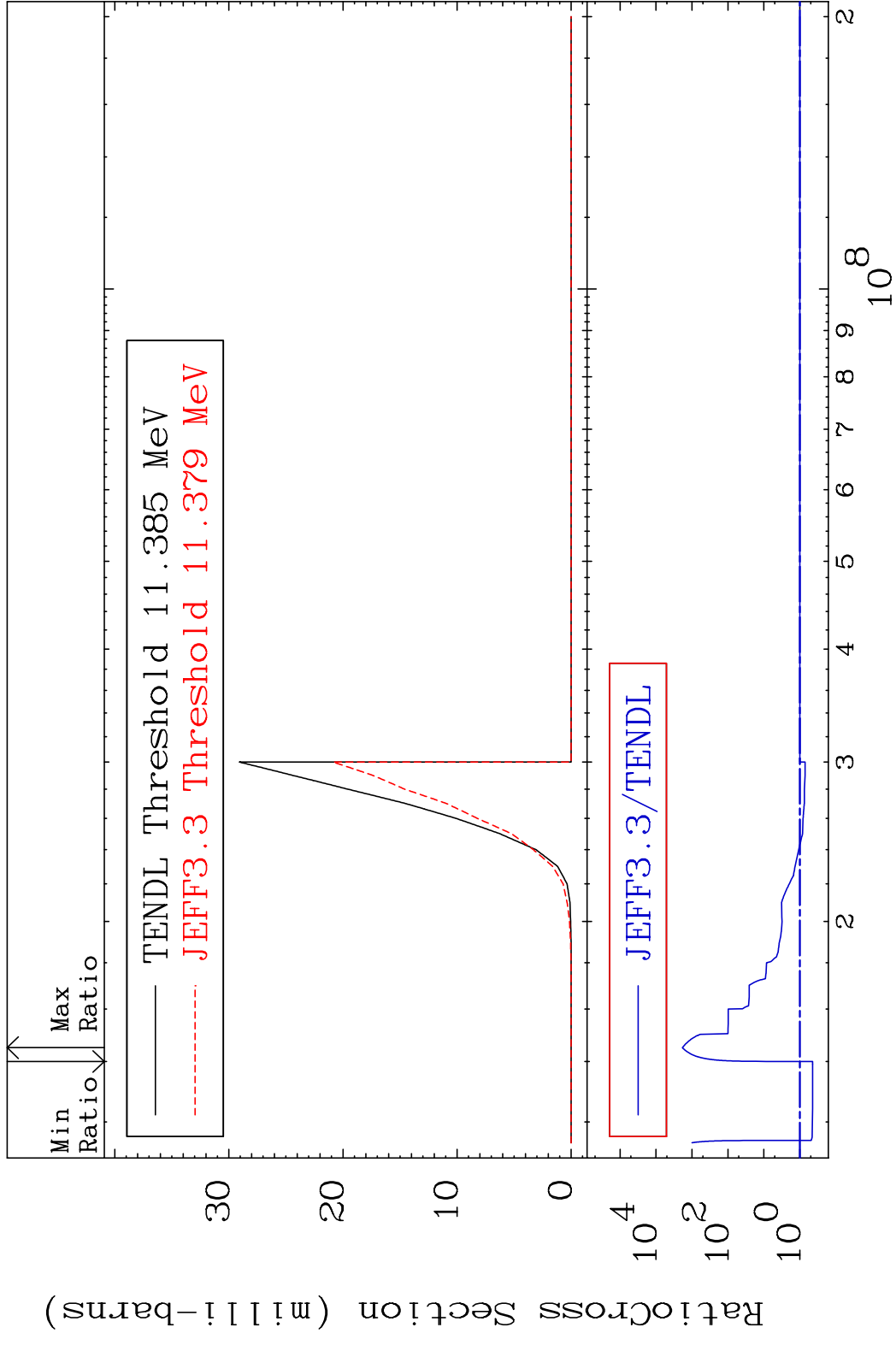




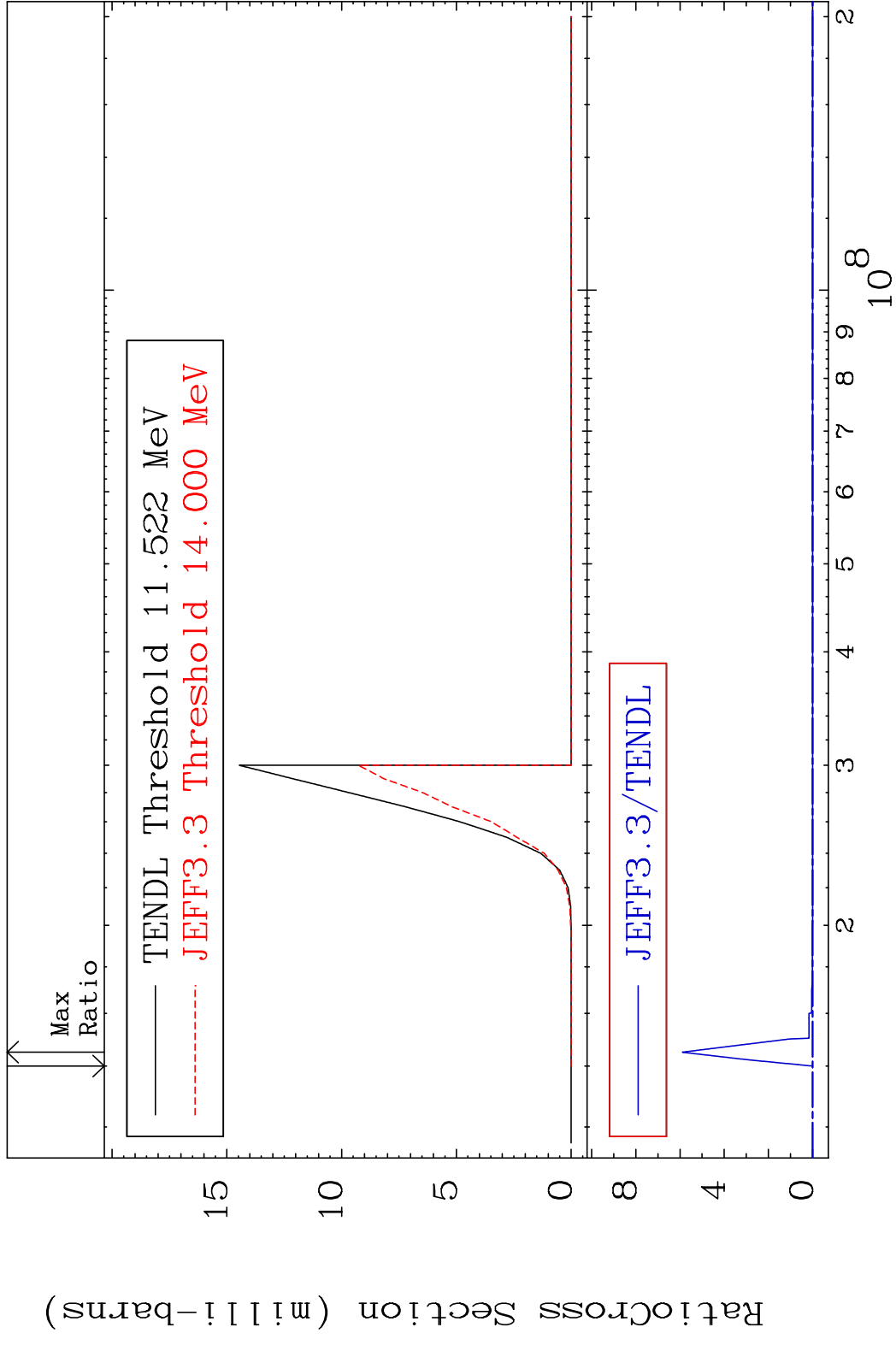
MAT 4319 (n, n')  $\alpha$ :41-Nb-93m1 43-Tc-97  
 Radionuclide Production Cross Section 58604110 9999. %



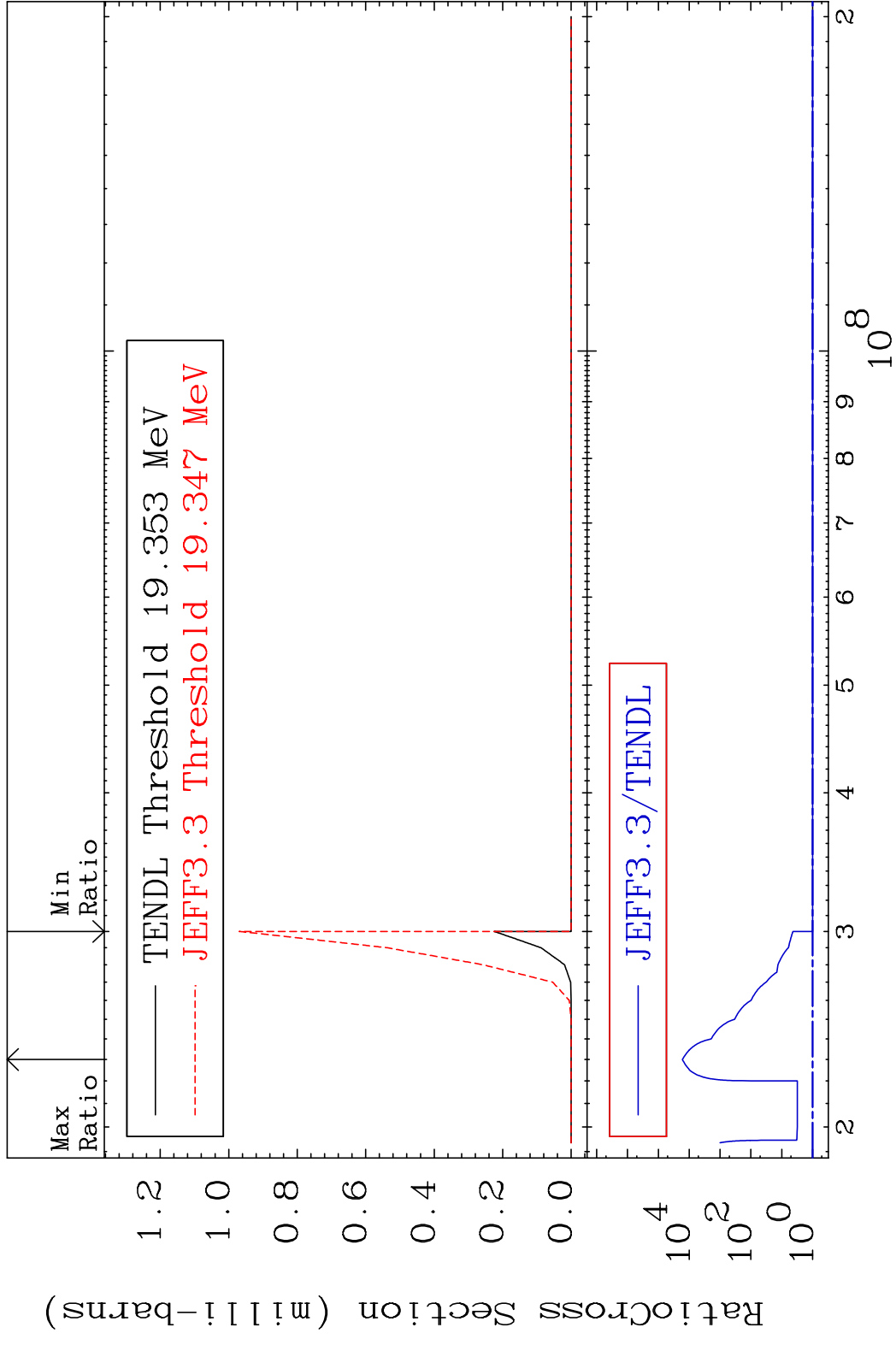
MAT 4319 (n,2n)  $\alpha$ :41-Nb-92g 43-Tc-97  
 Radionuclide Production Cross Section to 9999. %



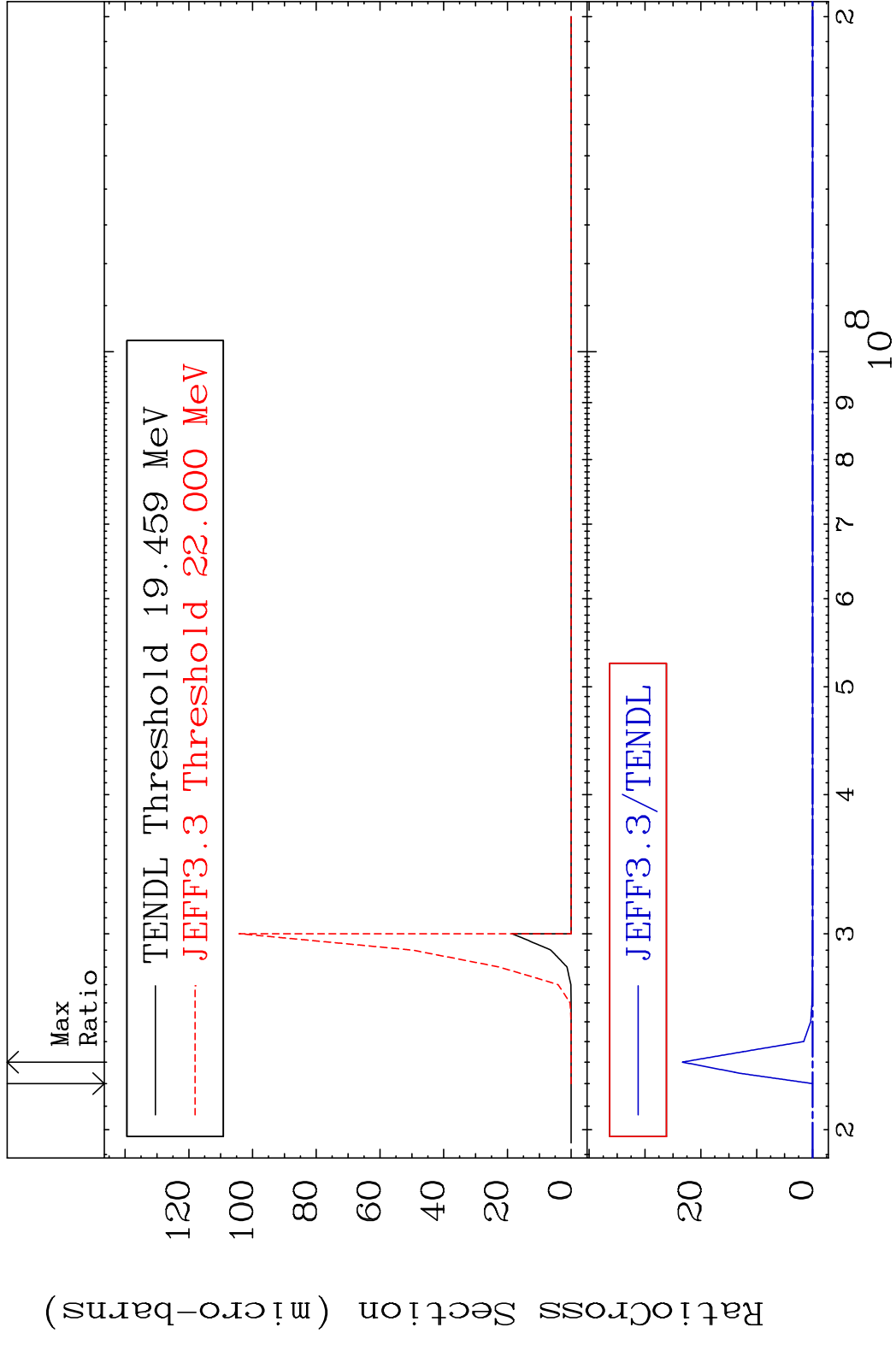
MAT 4319 (n,2n)  $\alpha$ :41-Nb-92m1 43-Tc-97  
 Radionuclide Production Cross Section Ratio 9999. %

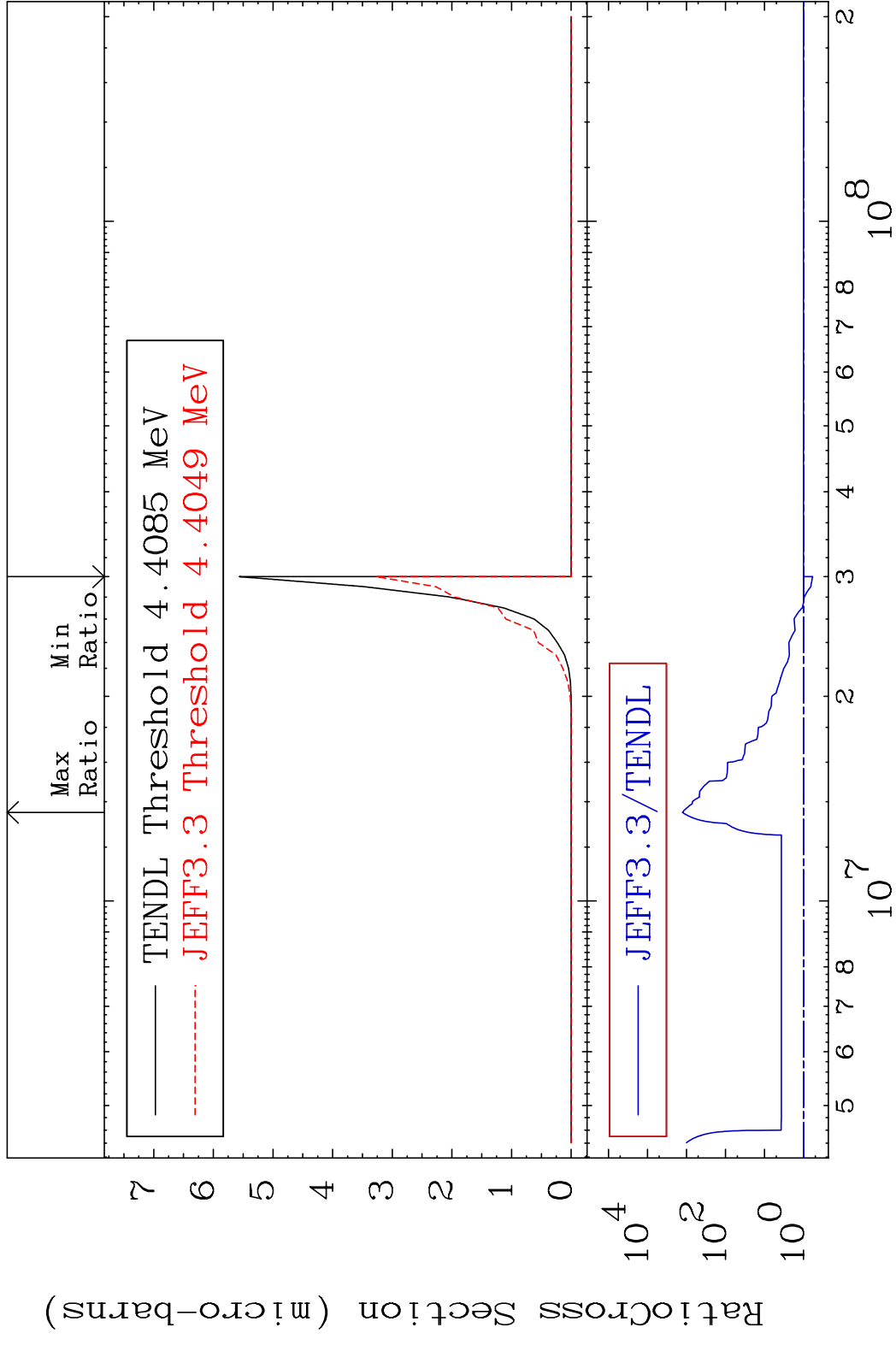


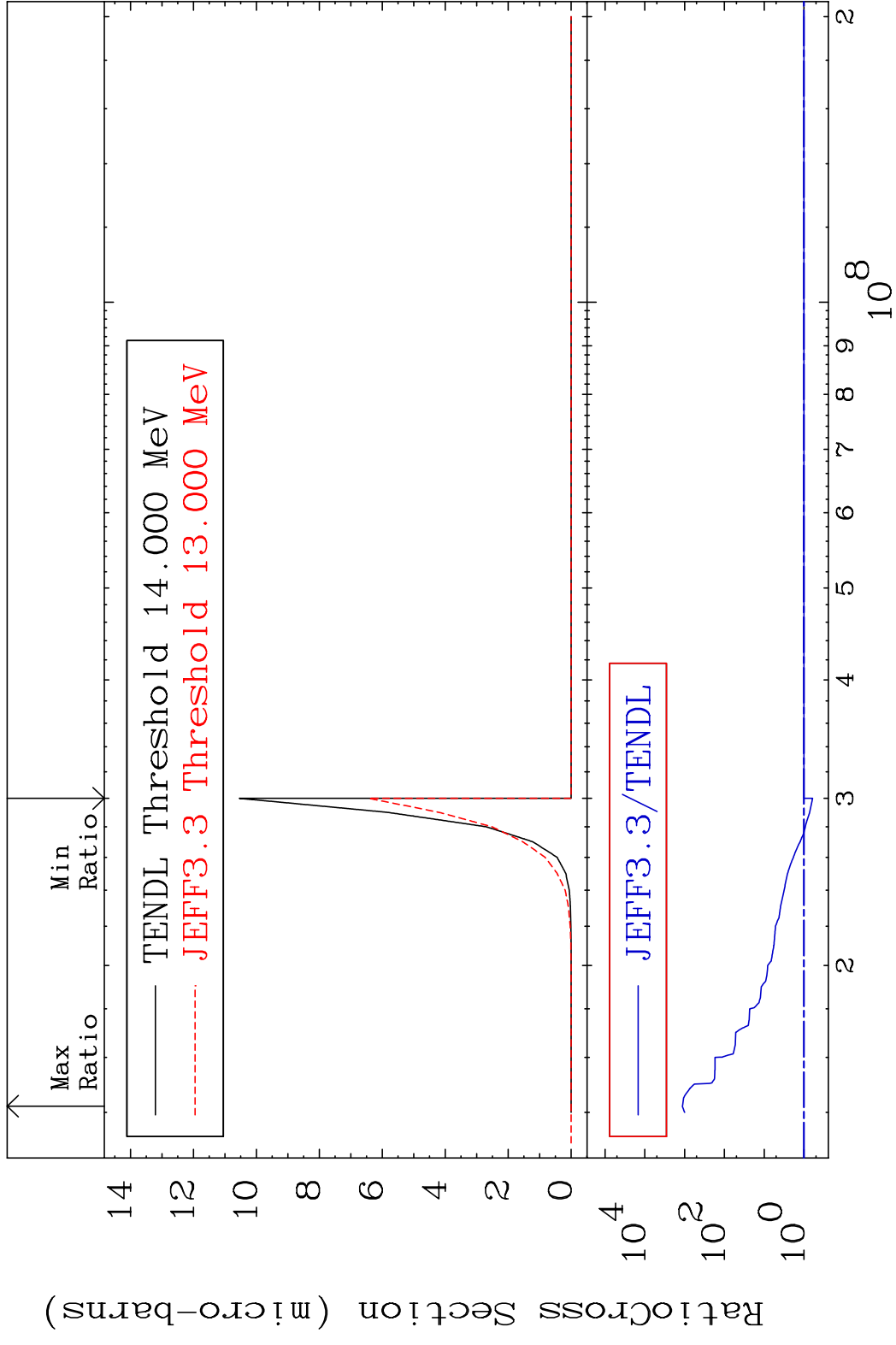
MAT 4319 (n,3n)  $\alpha$ :41-Nb-91g 43-Tc-97  
 Radionuclide Production Cross Section 9999. %

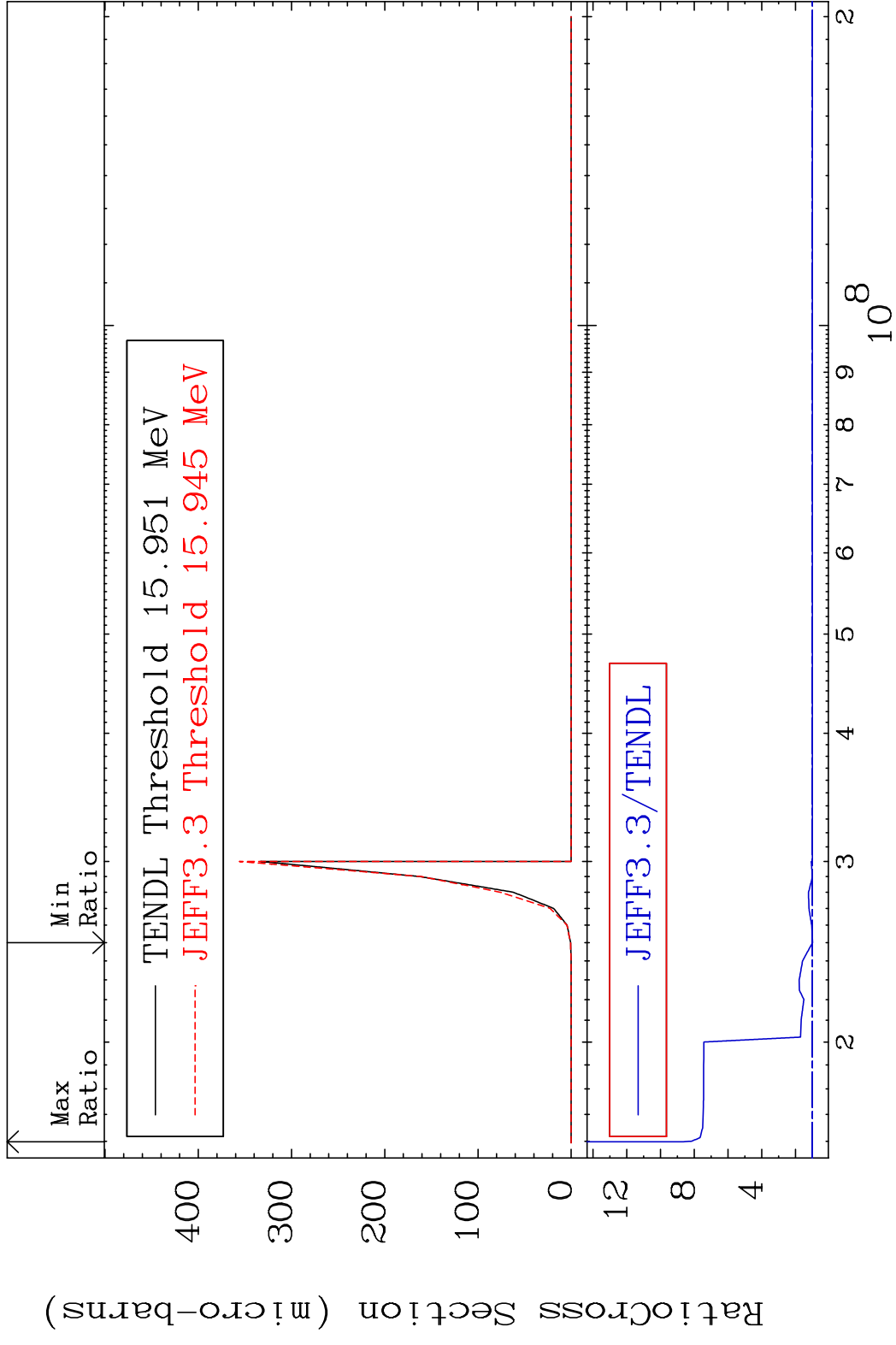


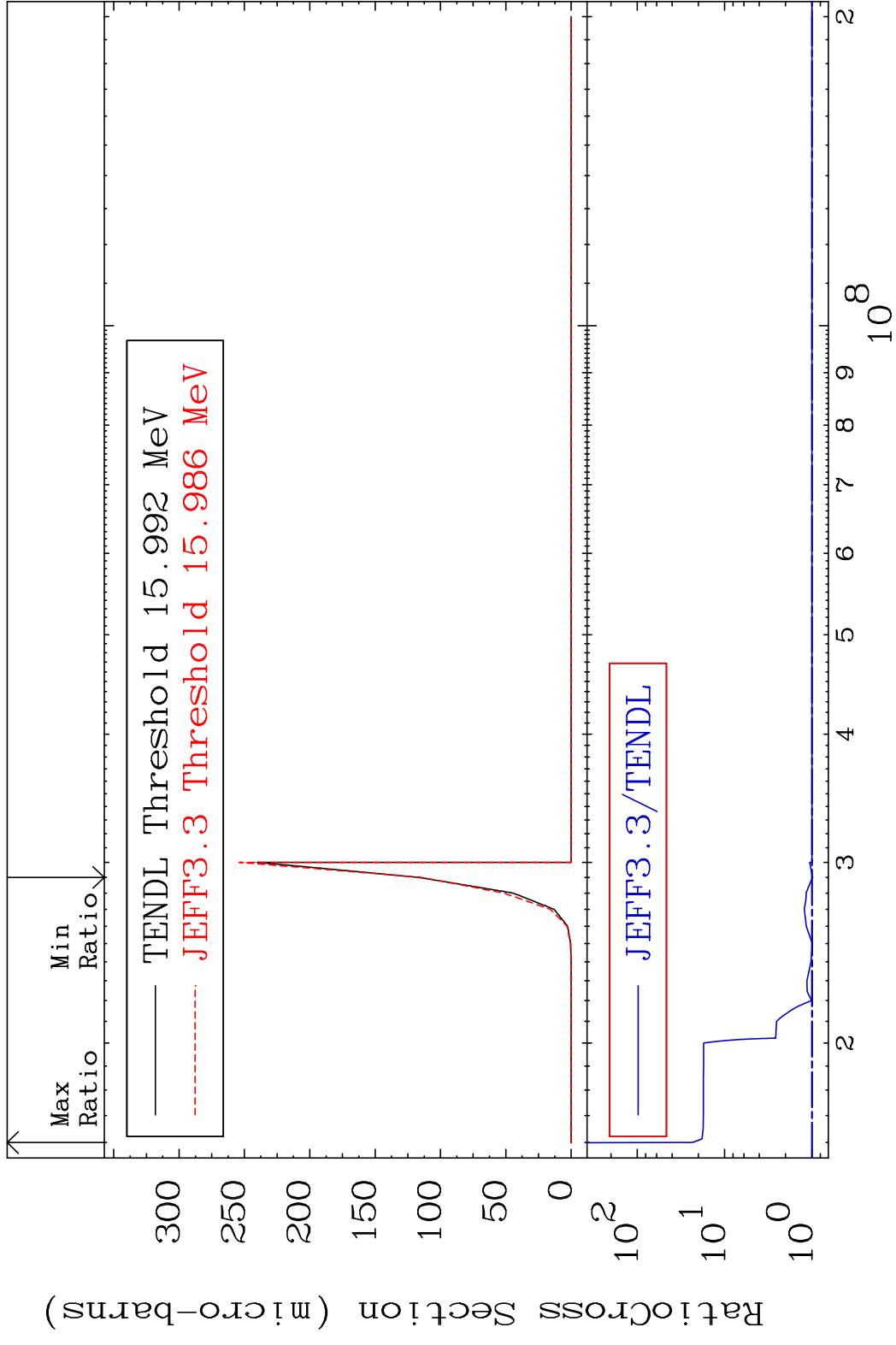
MAT 4319 (n,3n)  $\alpha$ :41-Nb-91m1 43-Tc-97  
 Radionuclide Production Cross Section 1800.0 dno 9999. %

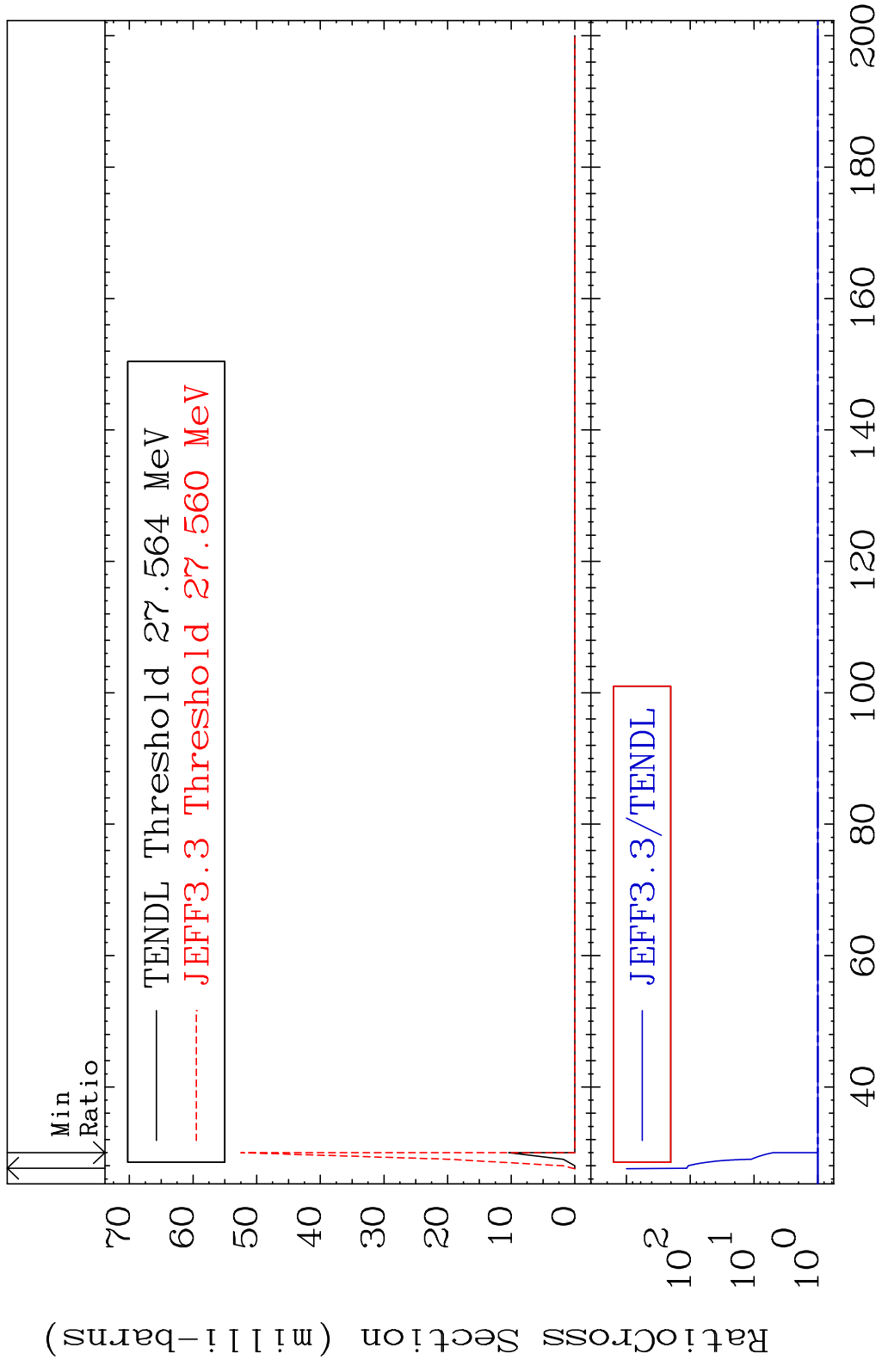




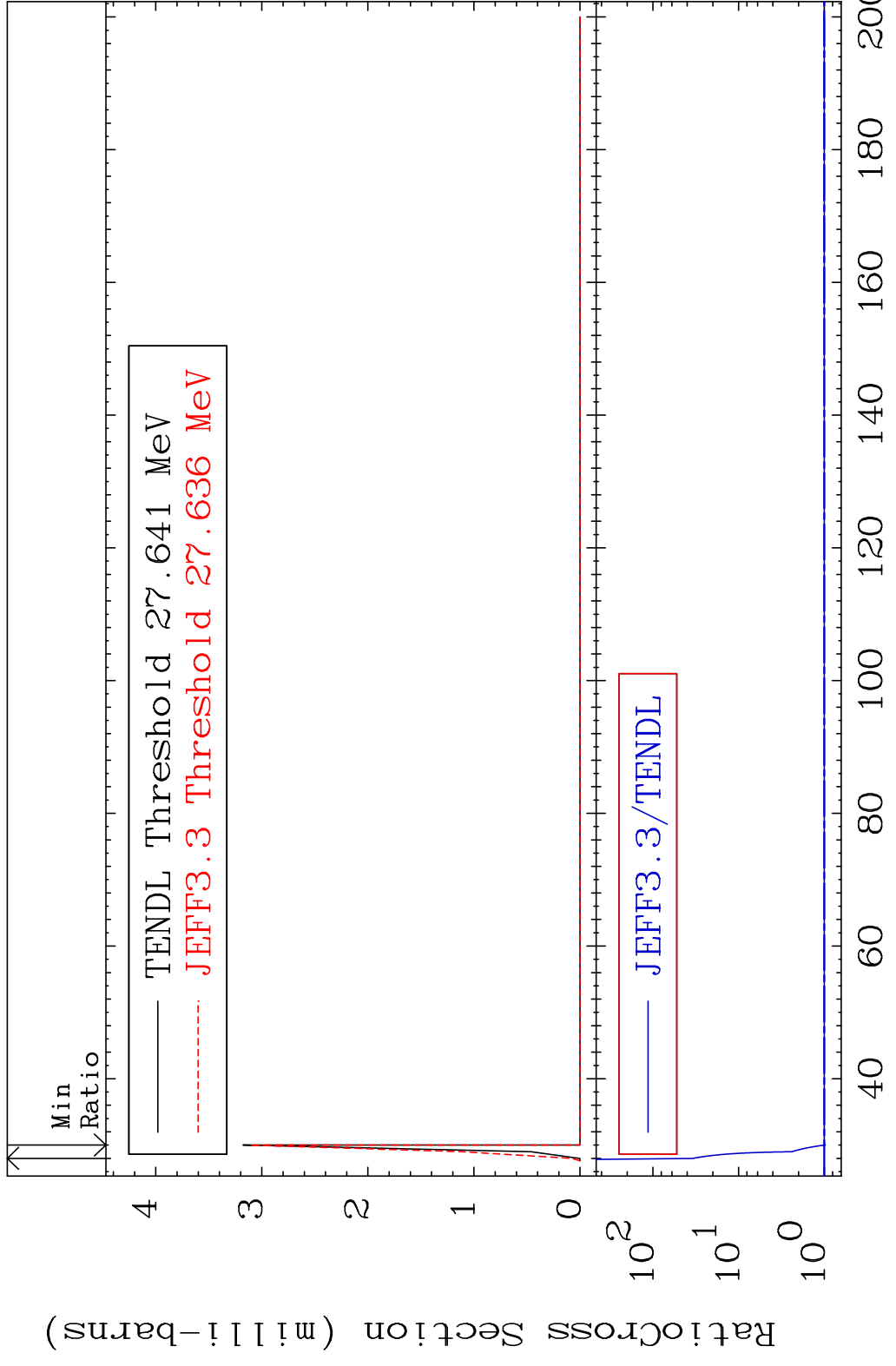


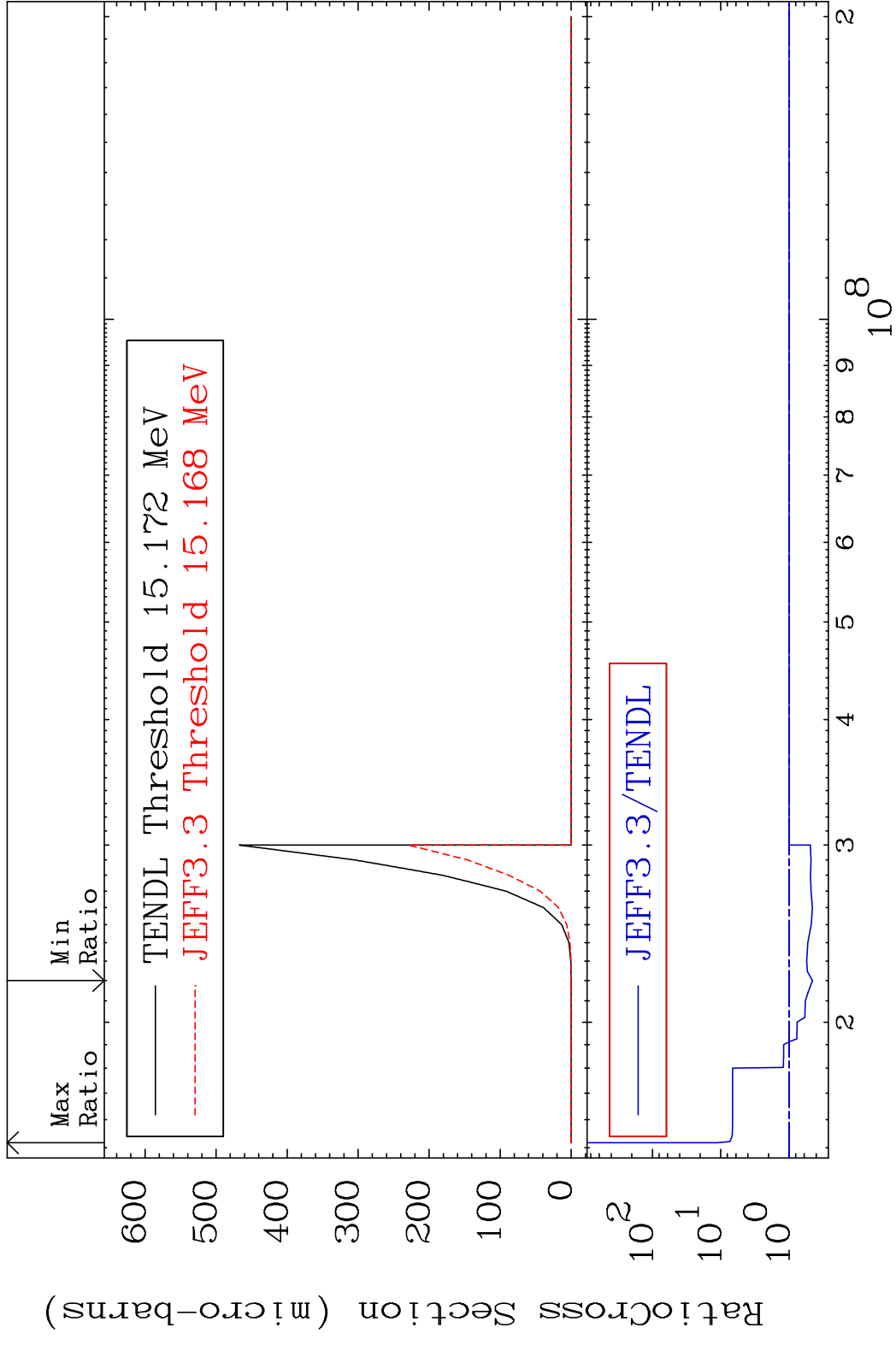


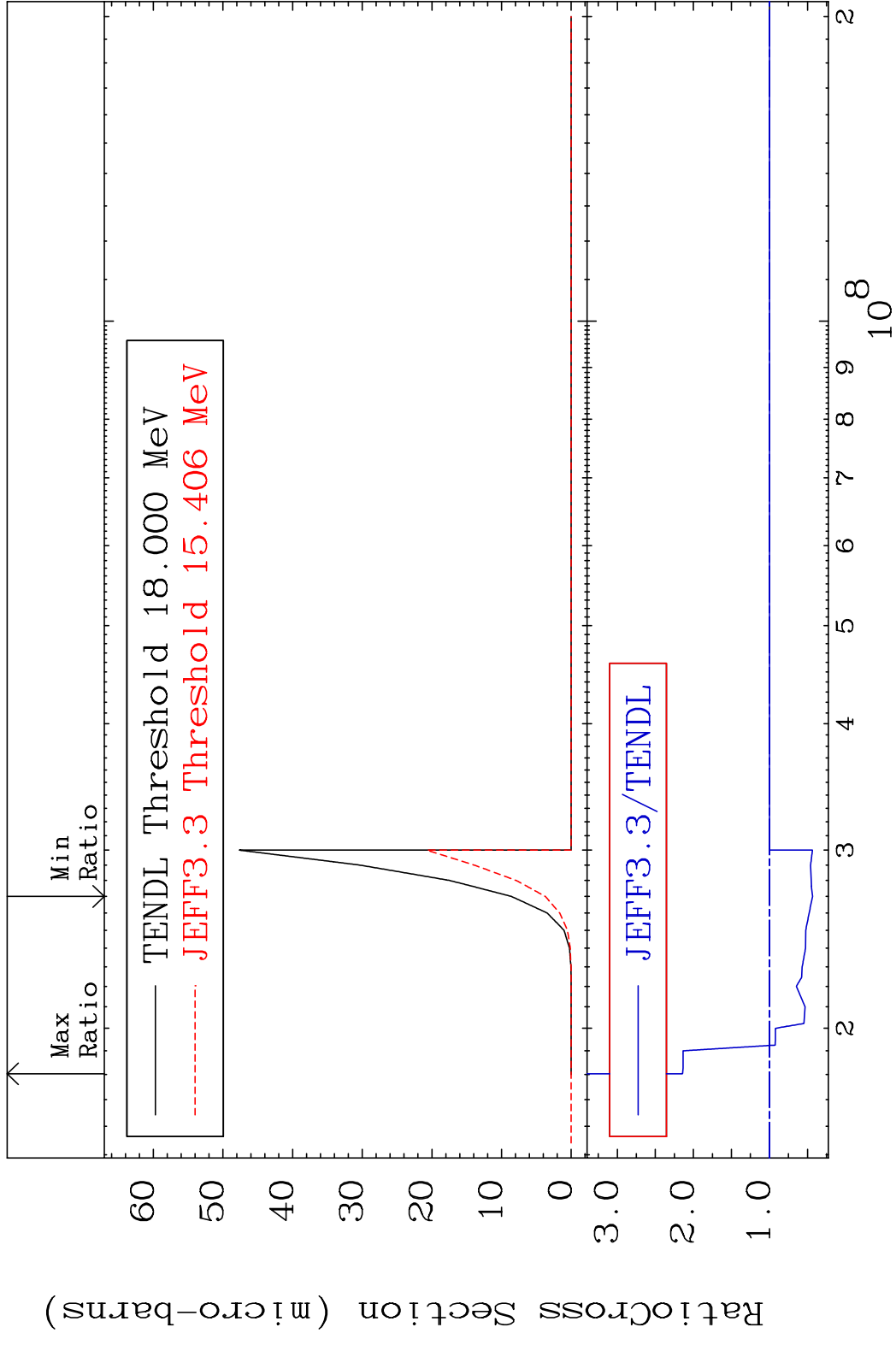




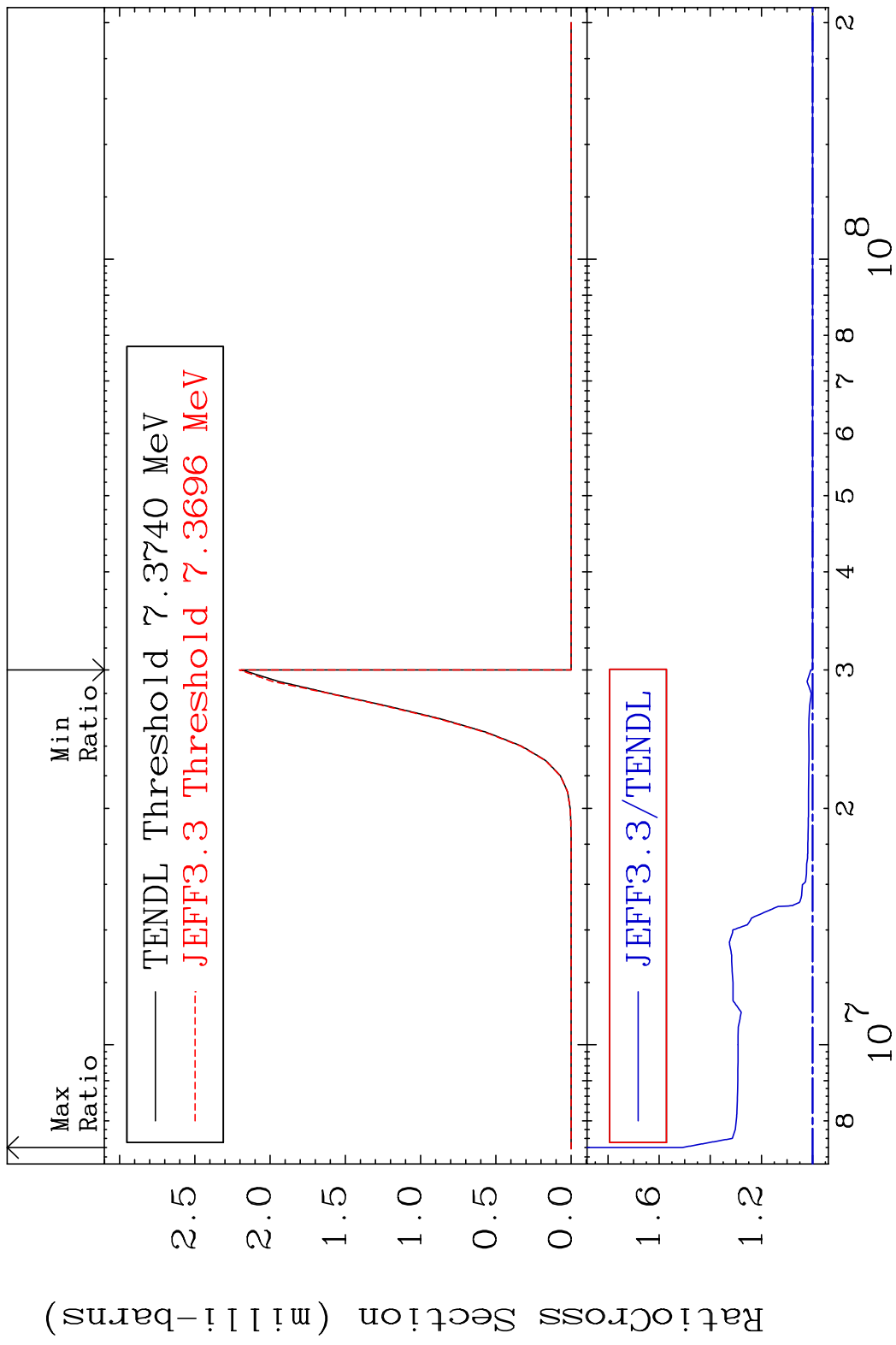
MAT 4319 (n,4n):43-Tc-94m1 43-Tc-97  
 Radionuclide Production Cross Section 3319. %







MAT 4319 (n, He-3): 41-Nb-95g 43-Tc-97  
 Radionuclide Production Cross Section 50.94 %



100 Incident Energy (eV) 43-Tc-97

