

Program Complot  
(Version 2021-1)

by

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(Present Contact Information)

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U.S.A.

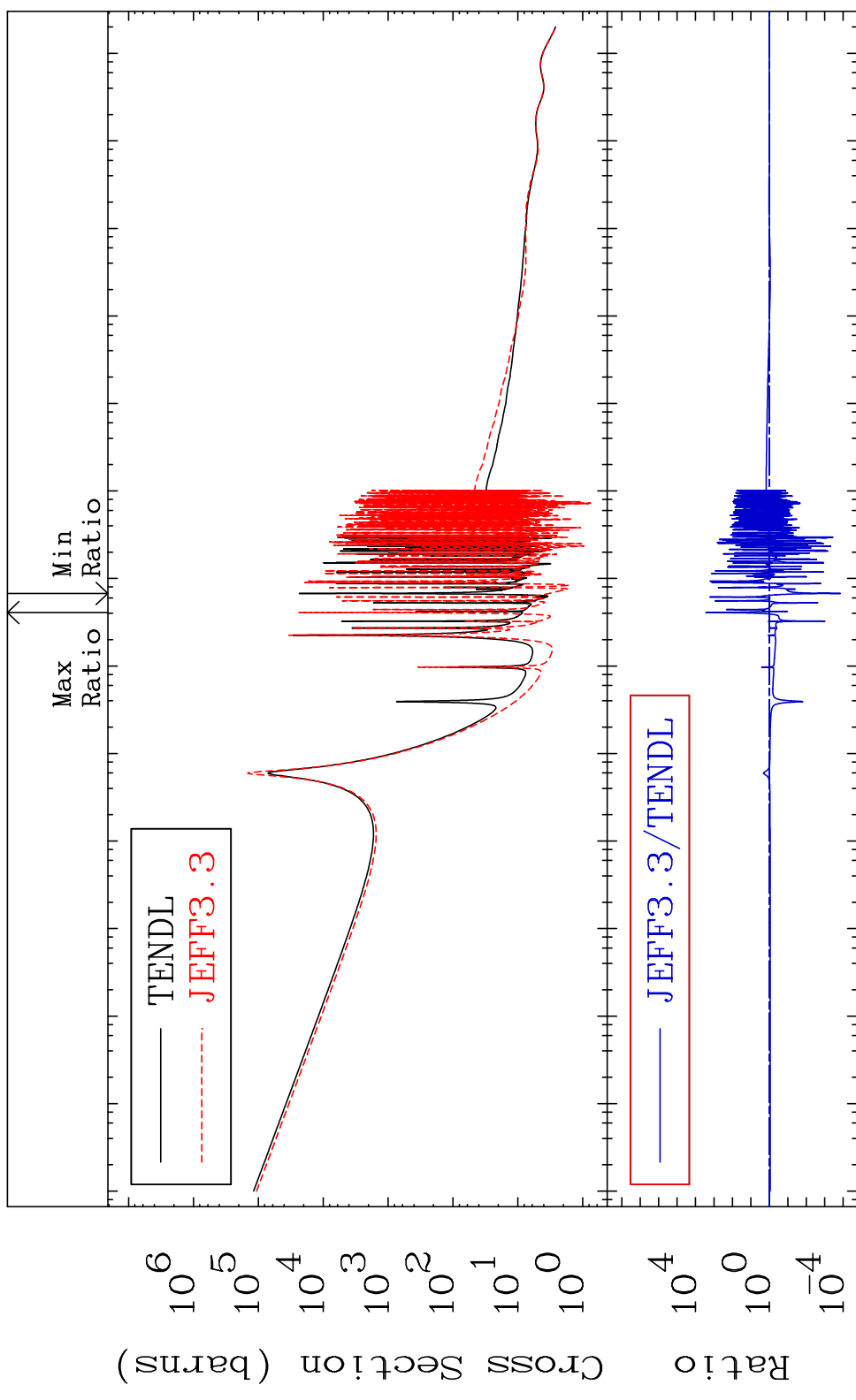
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 7025

Total Cross Section  
70-Yb-168  
-99.99 To 9999. %



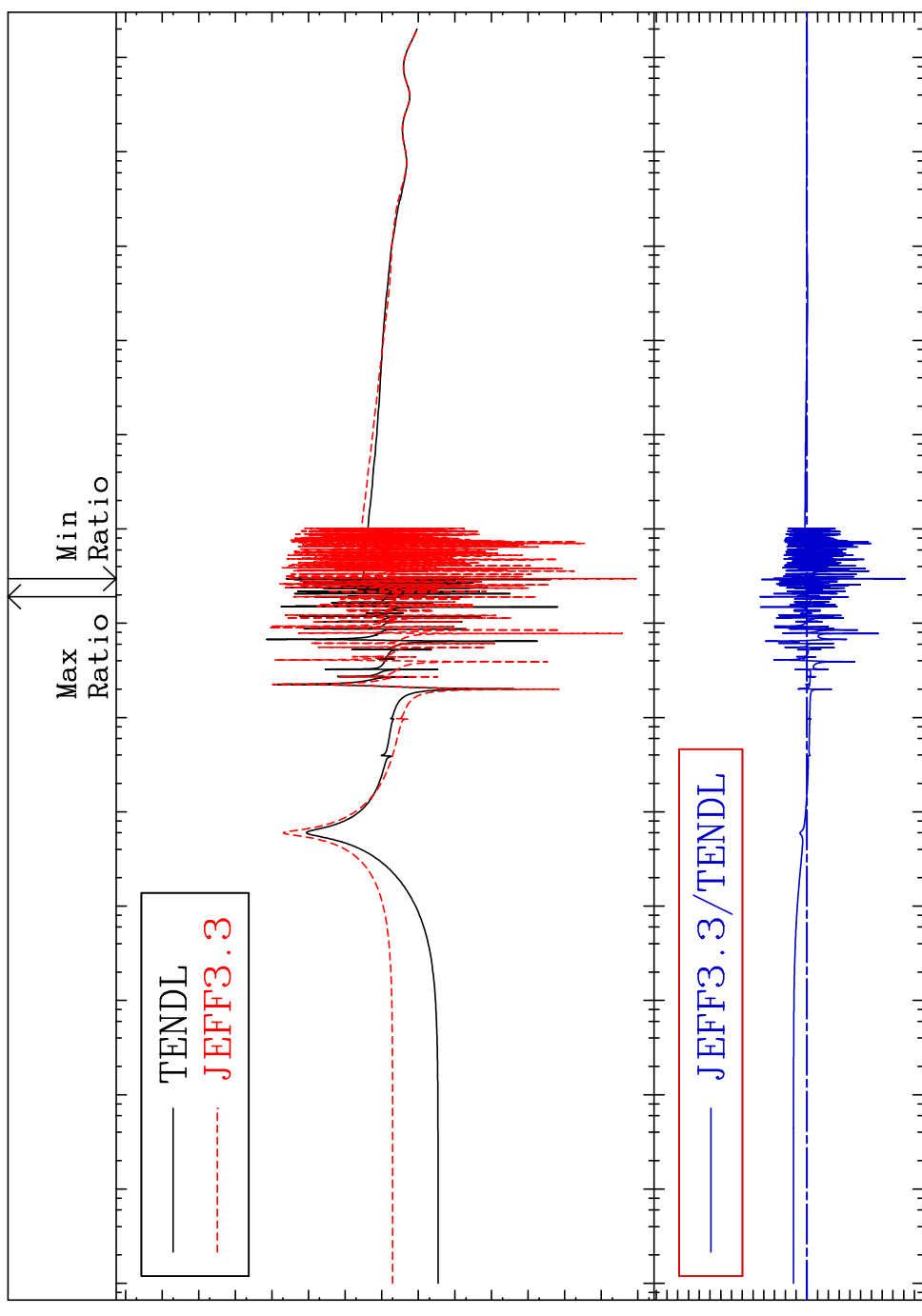
1 Incident Energy (eV) 70-Yb-168

MAT 7025

70-Yb-168

Elastic

Cross Section -100.0 To 9999. %



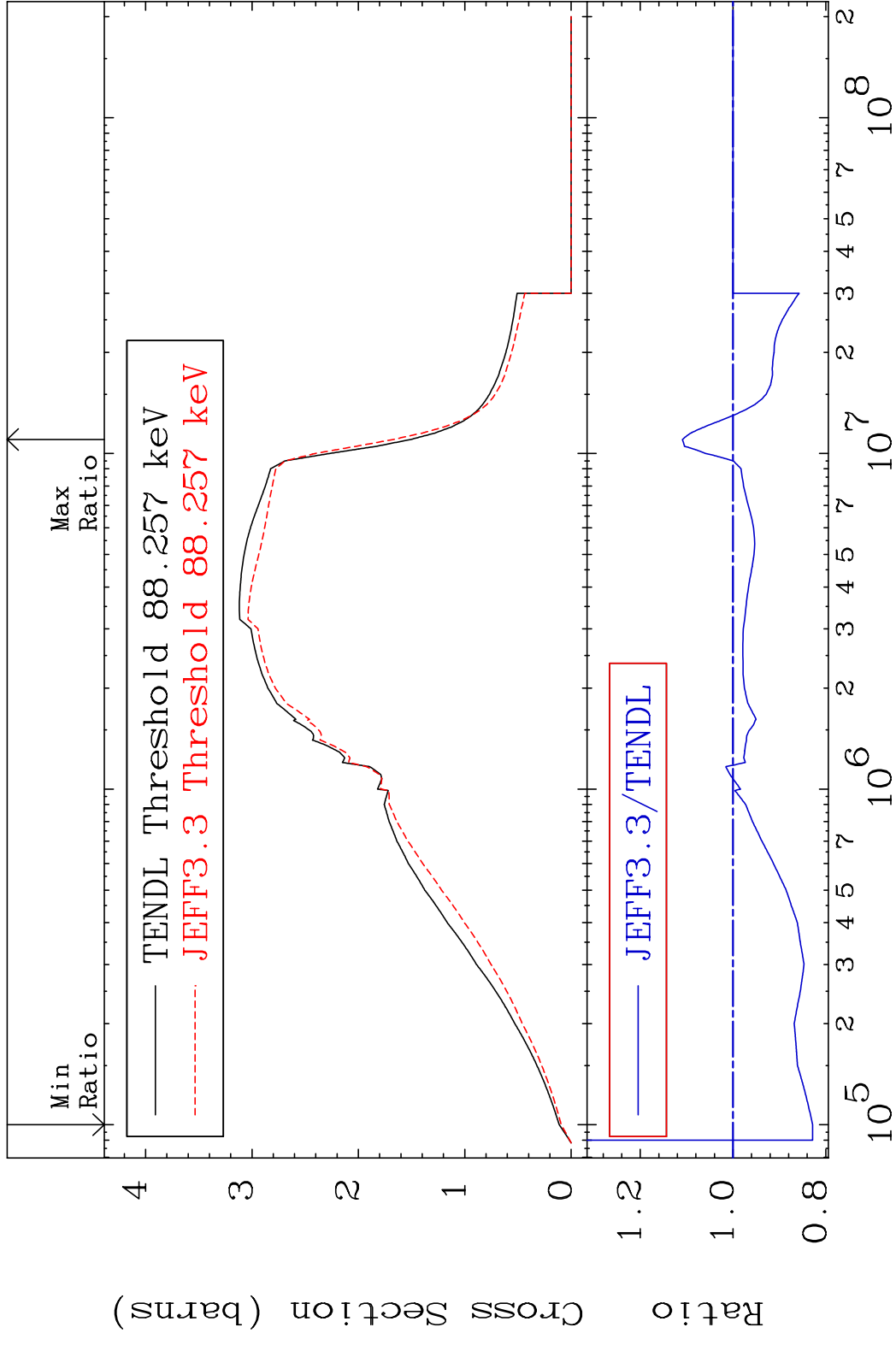
10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

2

Incident Energy (eV)

70-Yb-168

MAT 7025 Inelastic Cross Section -17.15 To 10.93 % 70-Yb-168



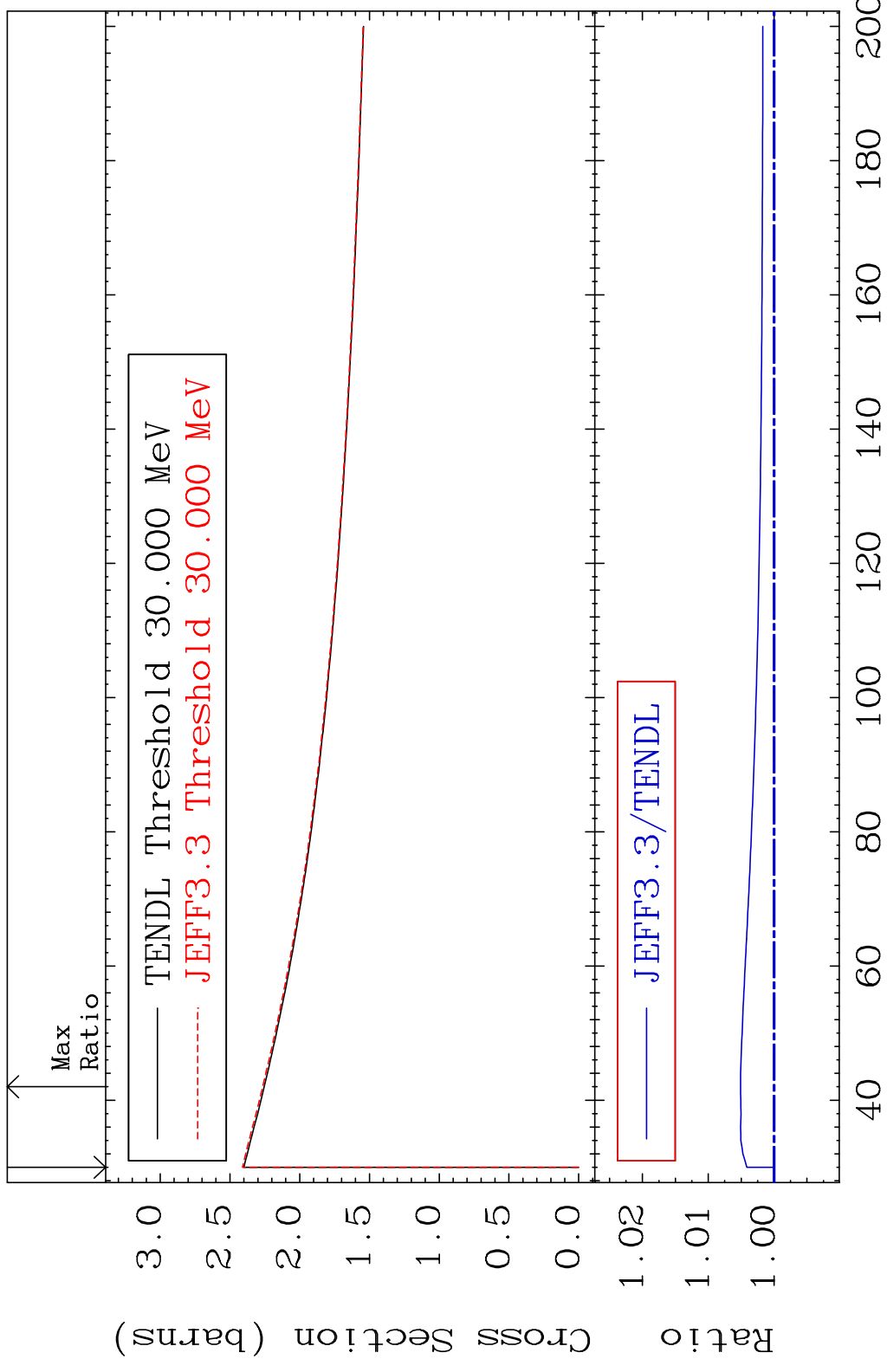
3 Incident Energy (eV) 70-Yb-168

MAT 7025

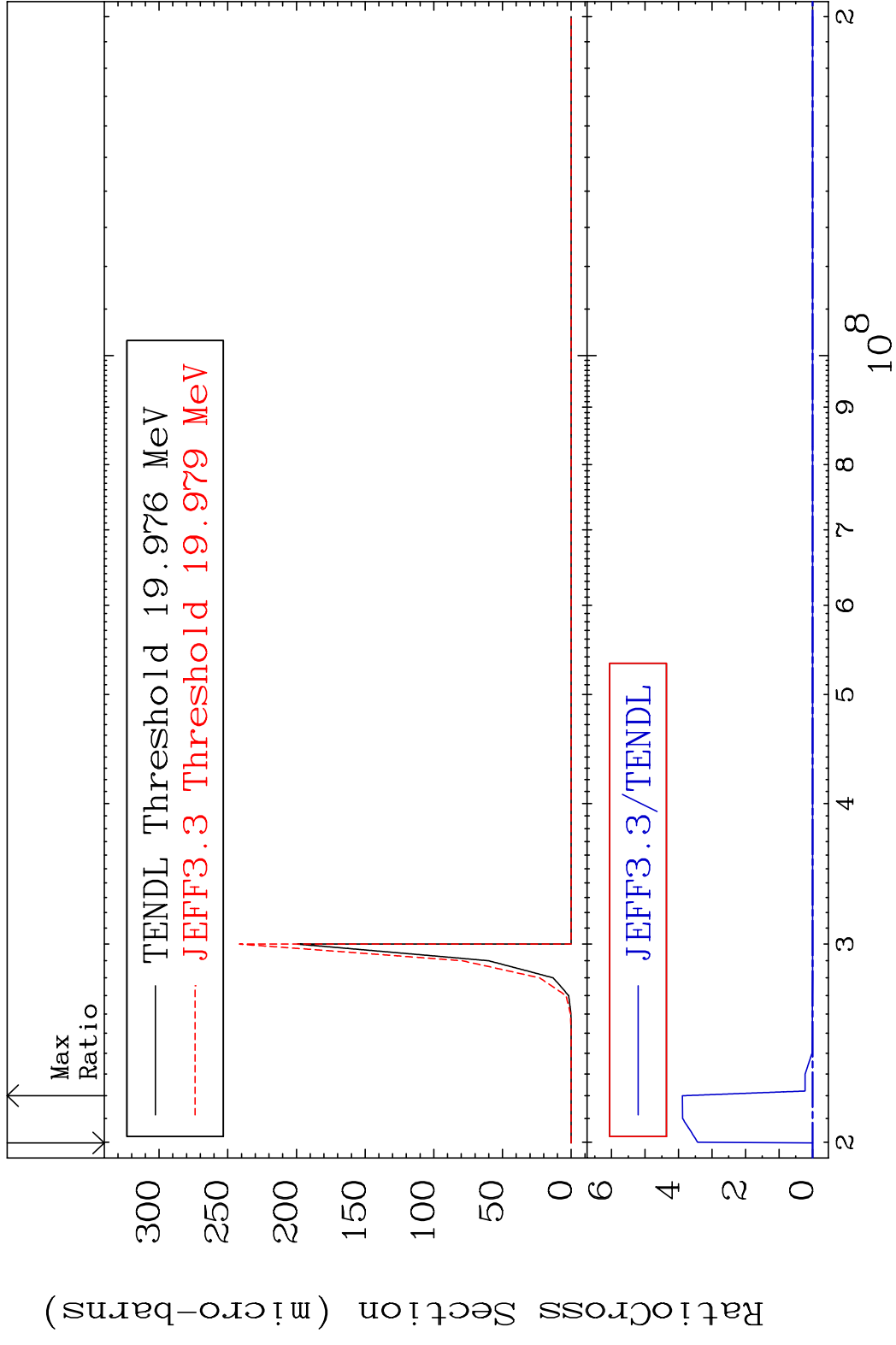
(n, remainder)

70-Yb-168

Cross Section 0.000 To 0.510 %



MAT 7025 (n,2n) d 70-Yb-168  
 Cross Section -100.0 To 9999. %



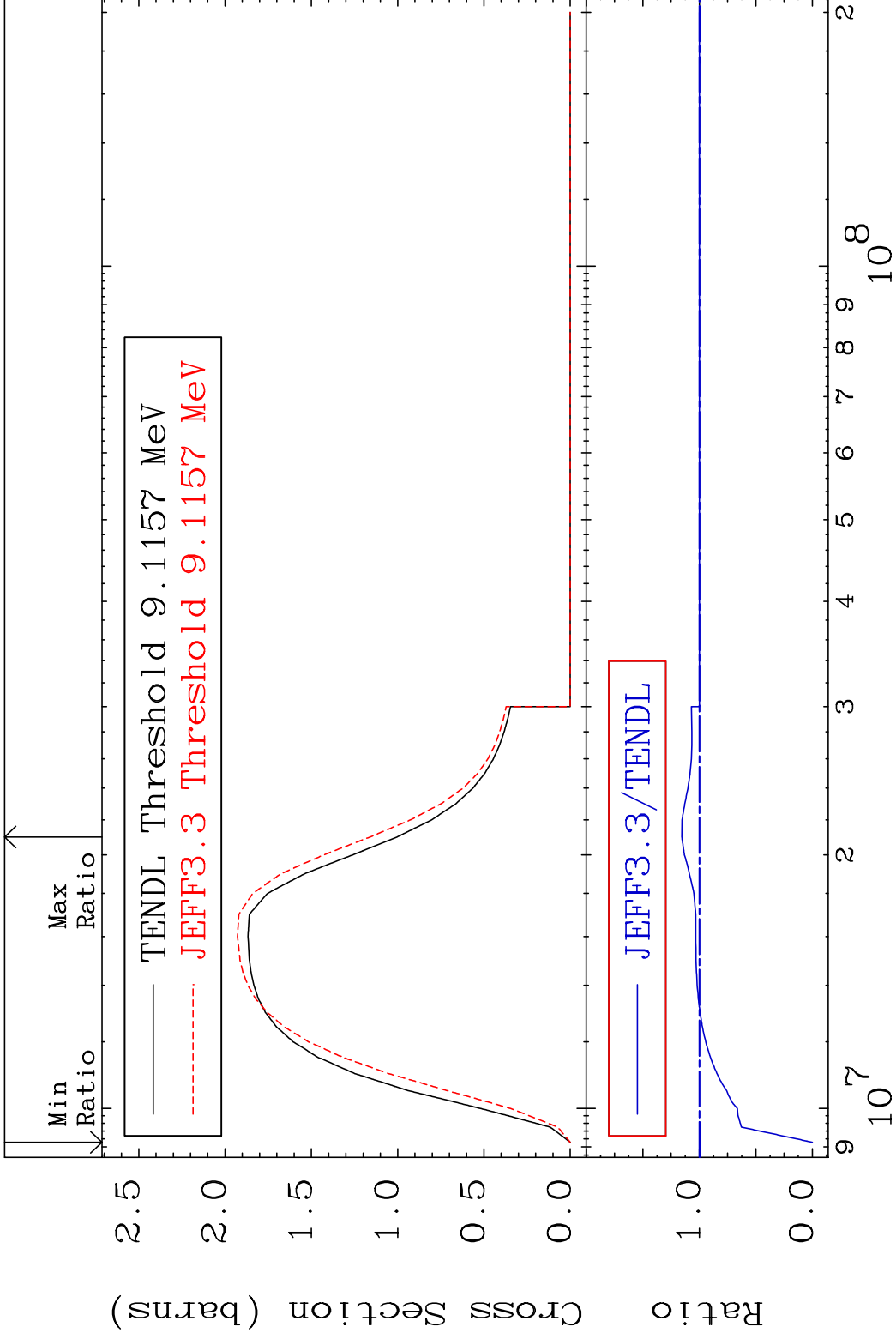
5 5 Incident Energy (eV) 70-Yb-168

MAT 7025

(n,2n)

70-Yb-168

Cross Section -100.0 To 15.59 %



70-Yb-168

Incident Energy (eV)

6



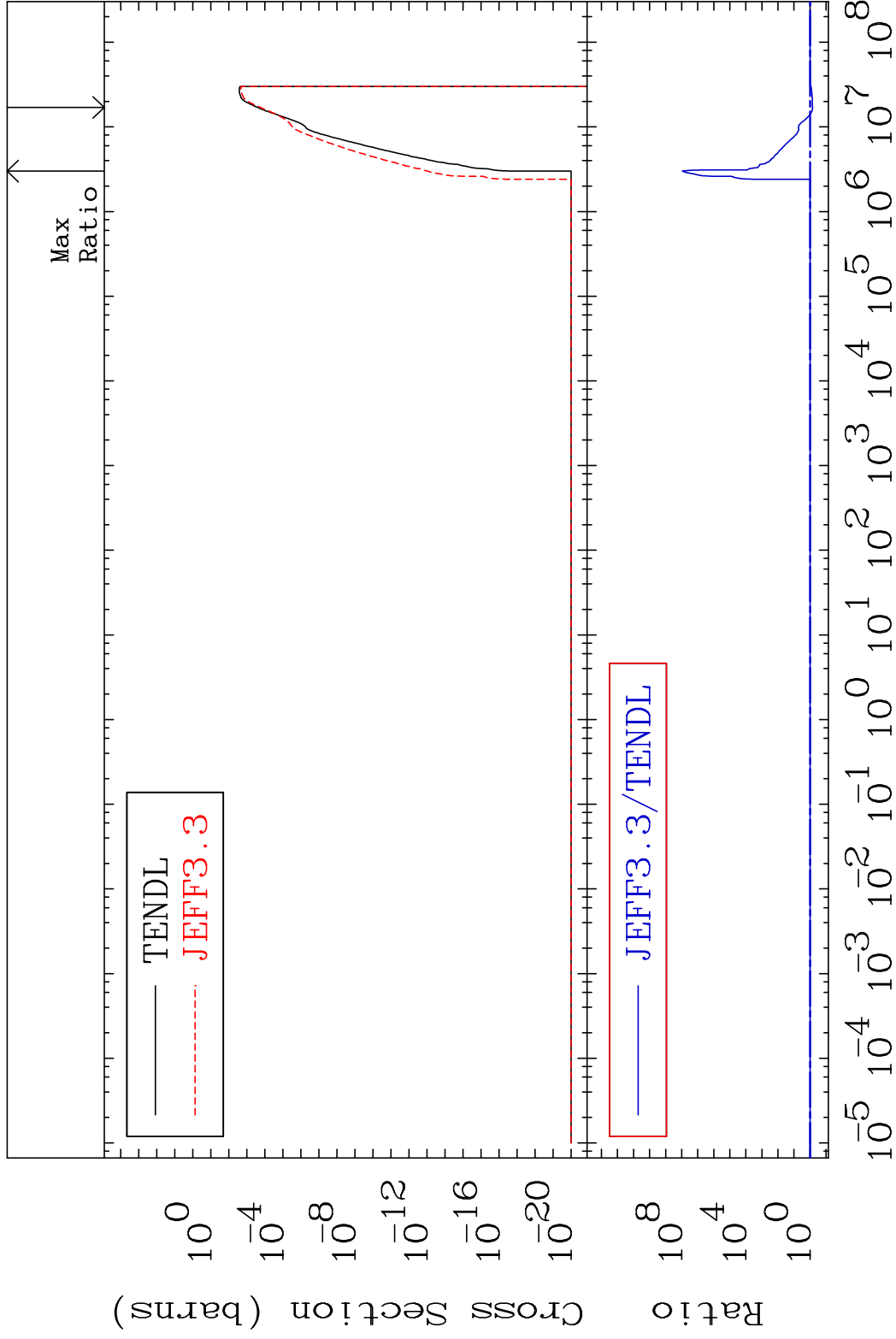


MAT 7025

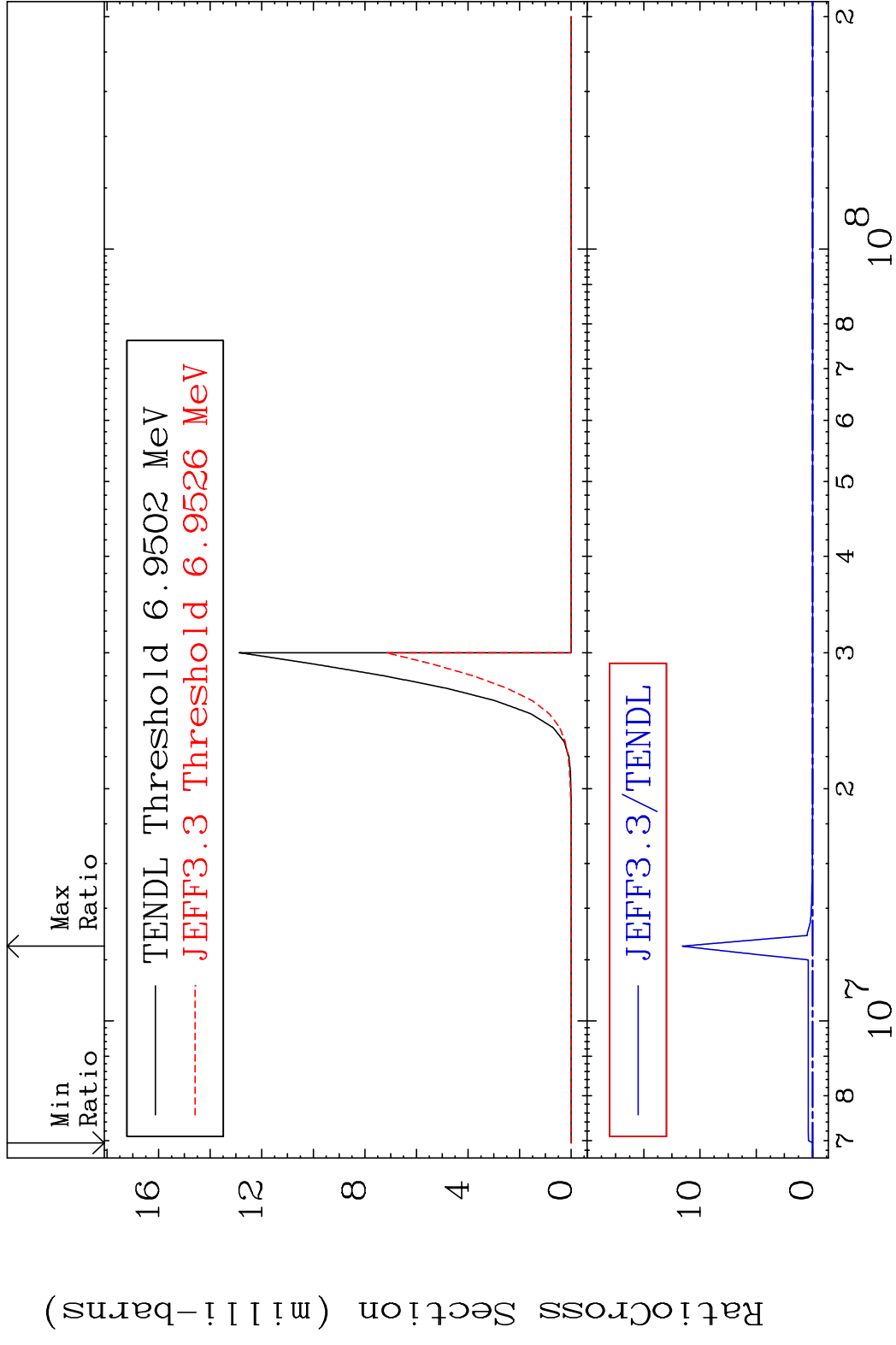
(n, n')  $\alpha$

70-Yb-168

Cross Section -30.16 To 9999. %

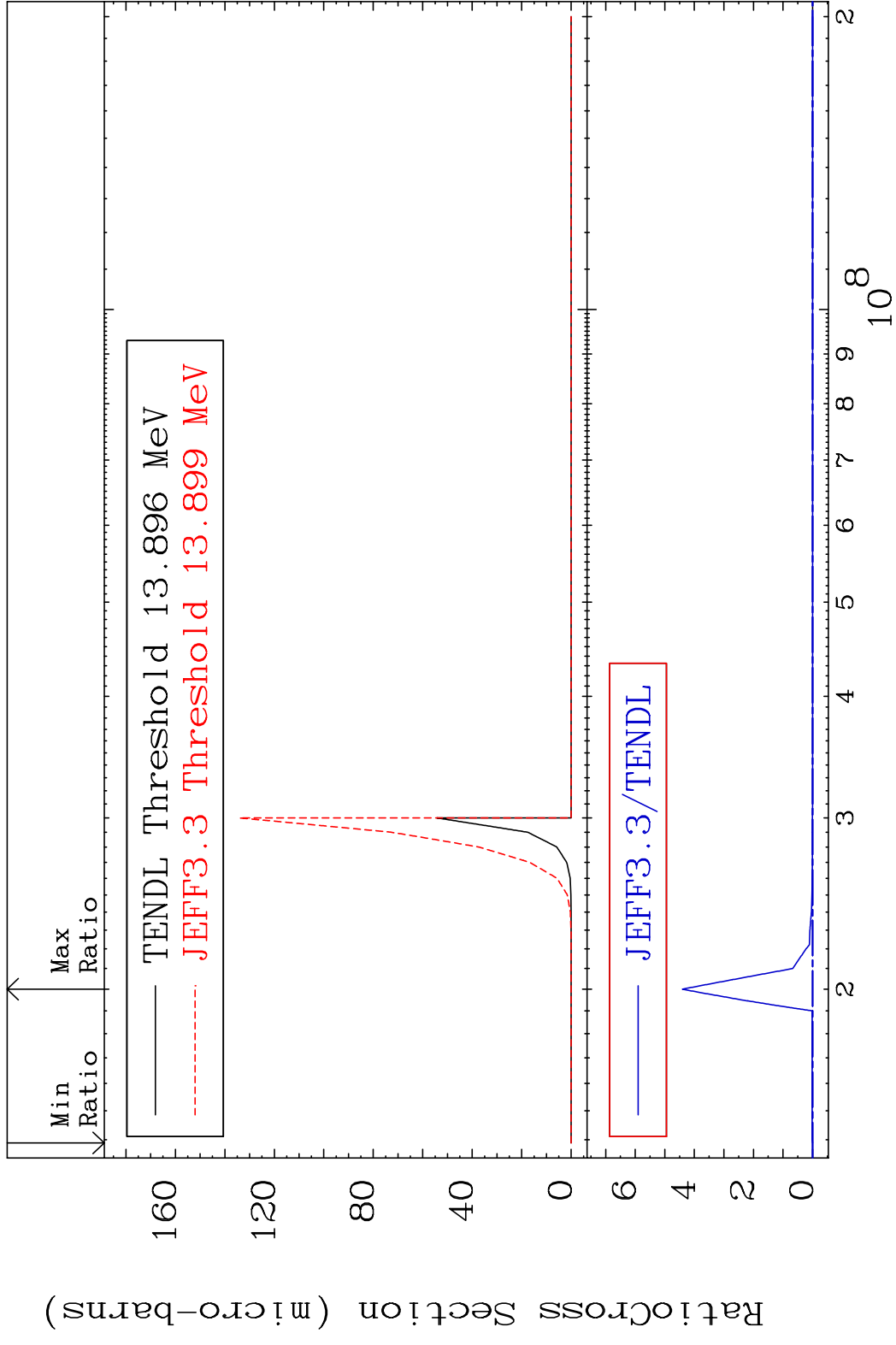


MAT 7025 (n,2n)  $\alpha$  70-Yb-168  
 Cross Section -100.0 To 9999. %



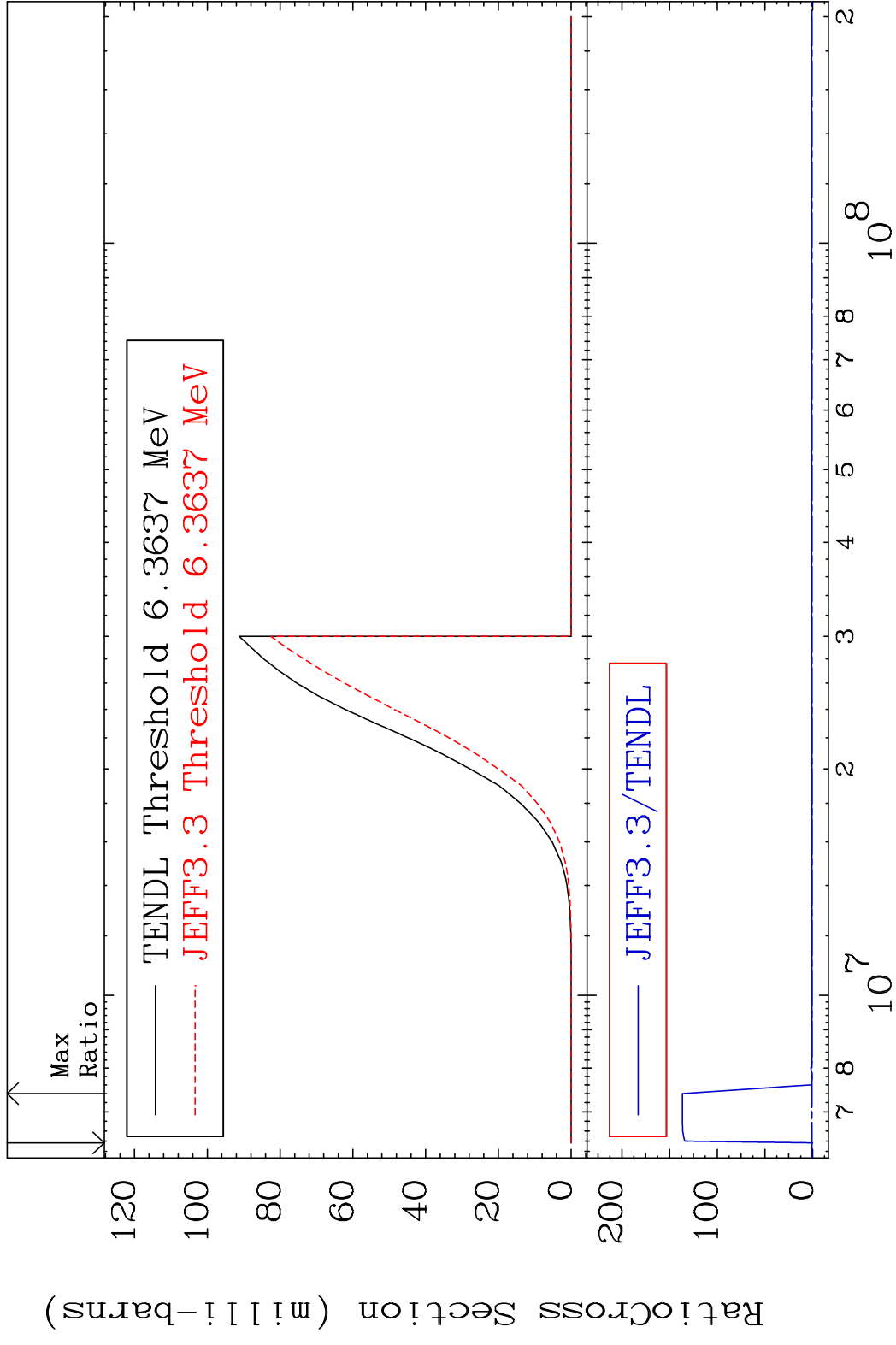
9 Incident Energy (eV) 70-Yb-168

MAT 7025 (n,3n)  $\alpha$  70-Yb-168  
 Cross Section -100.0 To 9999. %



10 Incident Energy (eV) 70-Yb-168

MAT 7025 (n, n') p 70-Yb-168  
 Cross Section -100.0 To 9999. %



MAT 7025

(n, n') 2α

70-Yb-168

Cross Section

-56.46 To 9999. %

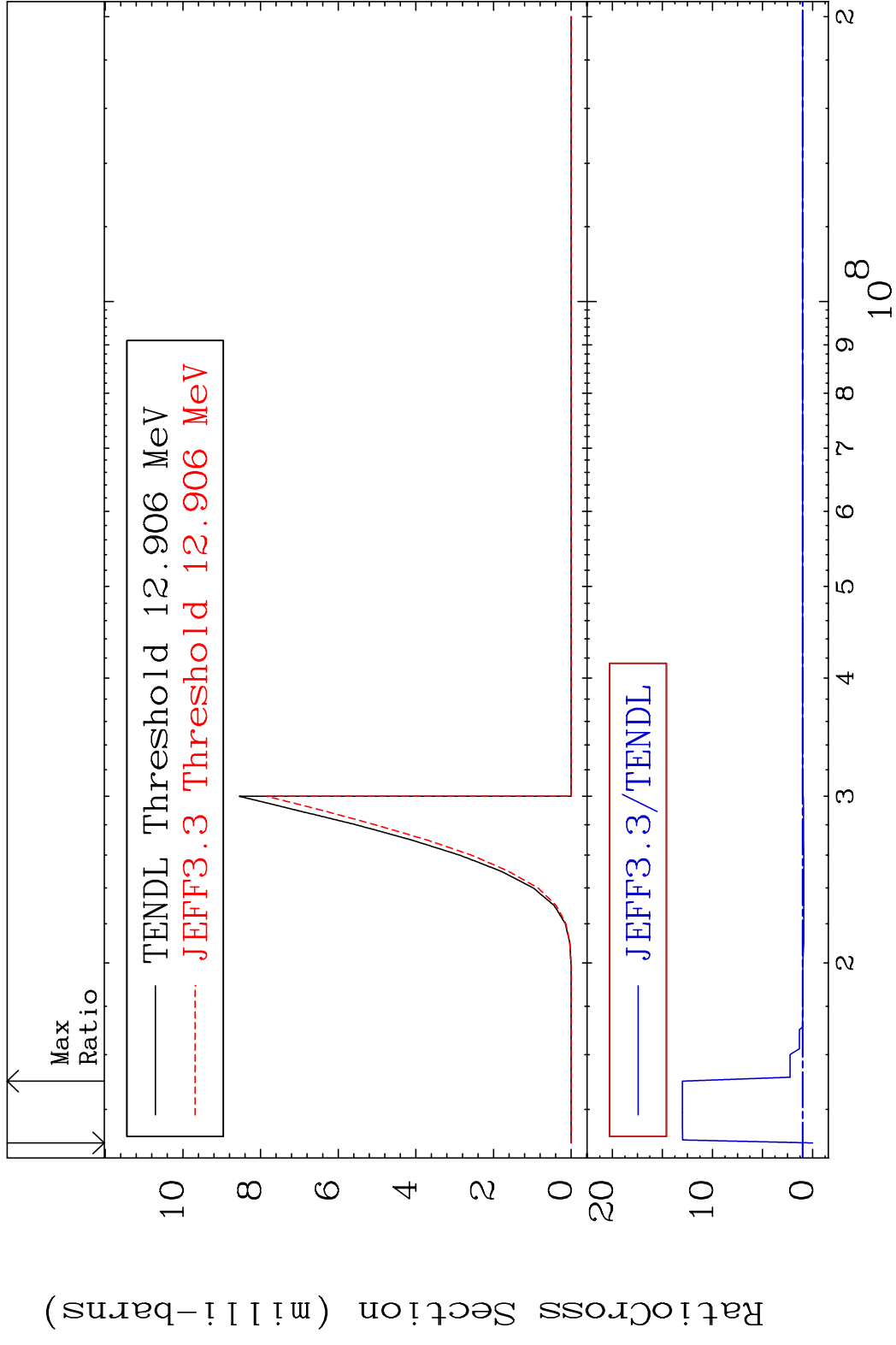


MAT 7025

(n, n') d

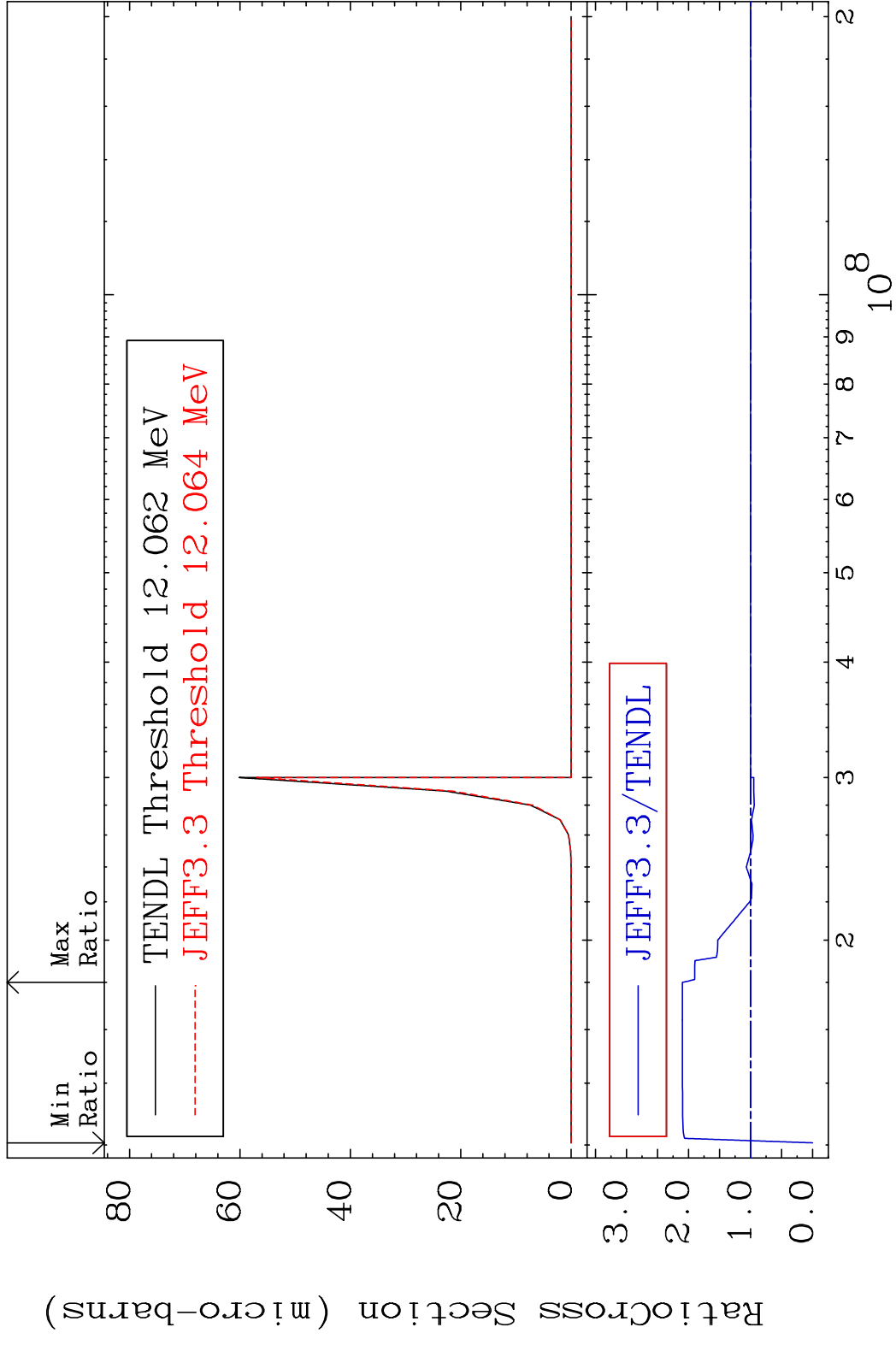
70-Yb-168

Cross Section -100.0 To 1201. %



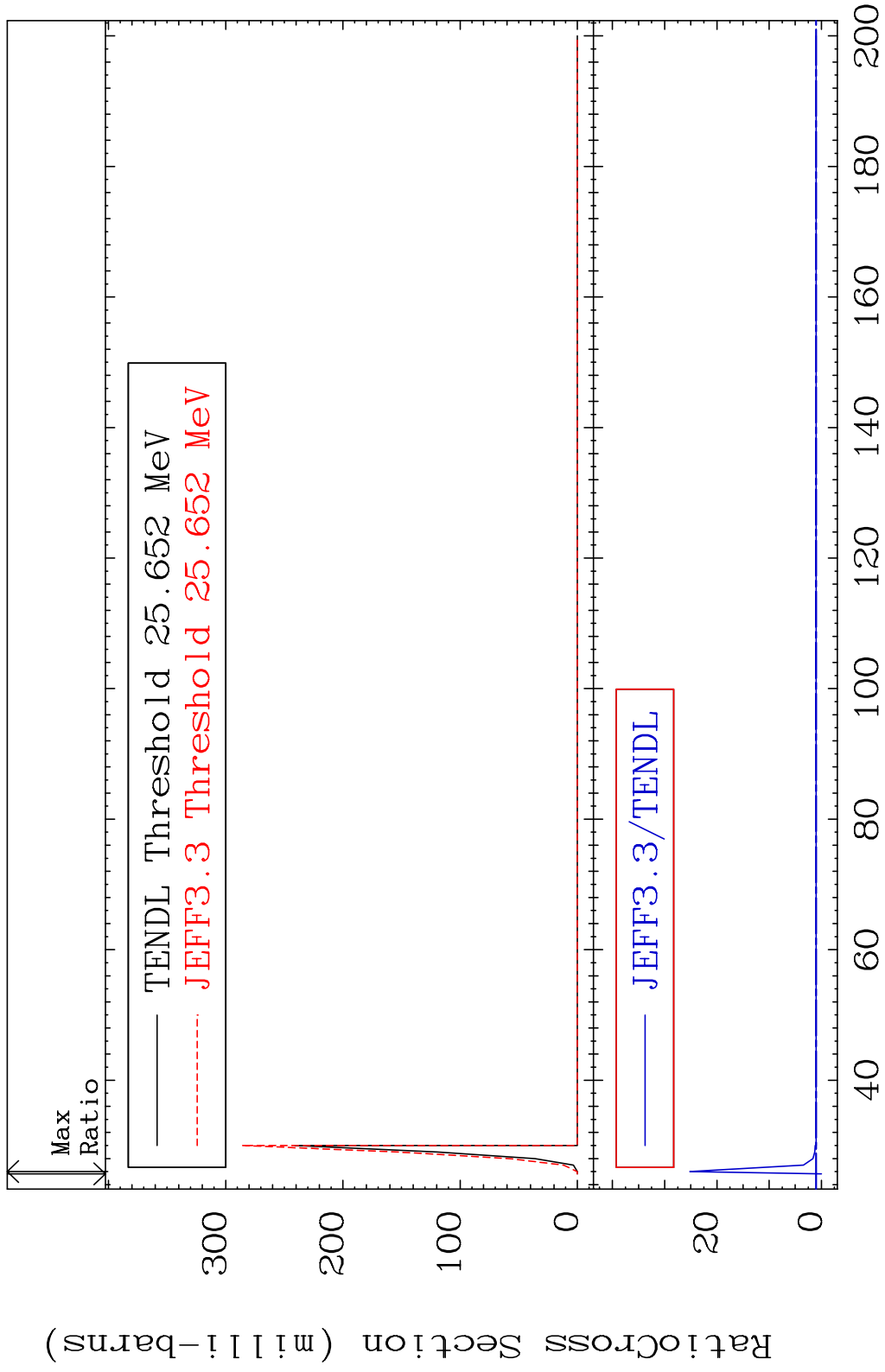


MAT 7025 (n,n') He-3 70-Yb-168  
 Cross Section -100.0 To 109.9 %

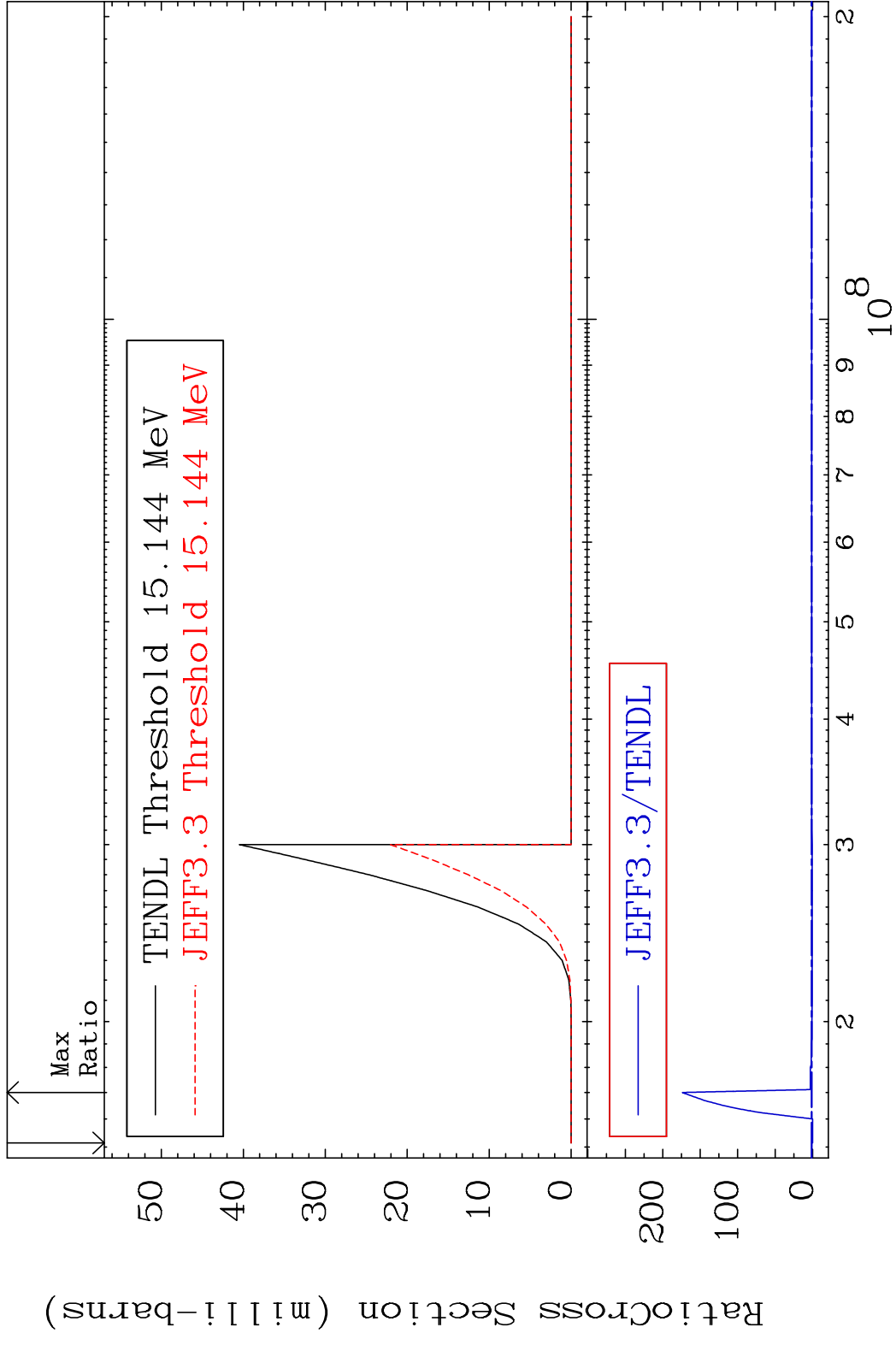




MAT 7025 (n,4n) 70-Yb-168  
Cross Section -100.0 To 2420. %



MAT 7025 (n,2n) p 70-Yb-168  
 Cross Section -100.0 To 9999. %

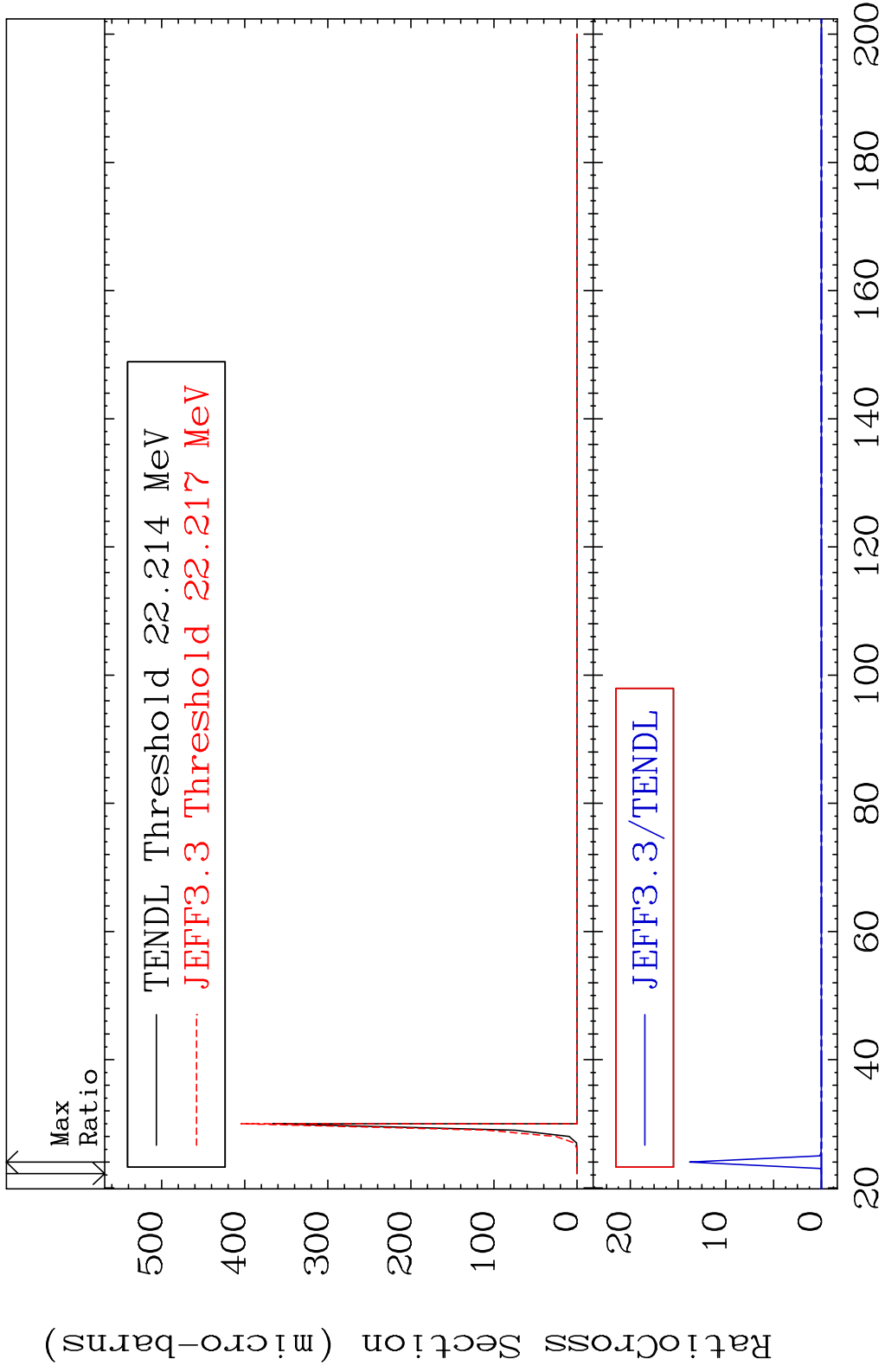


MAT 7025

(n,3n) p

70-Yb-168

Cross Section -100.0 To 9999. %

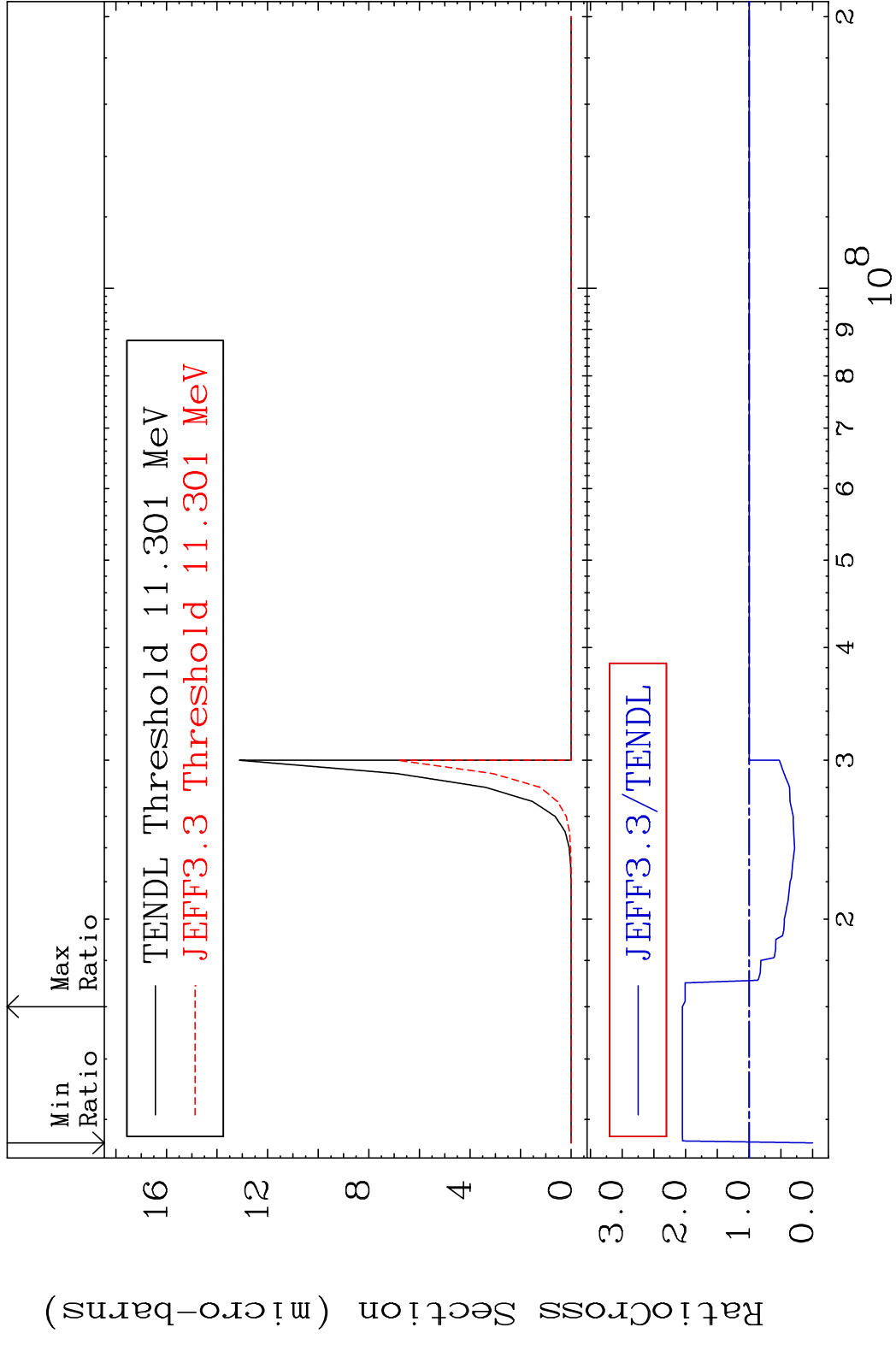


18

Incident Energy (MeV)

70-Yb-168

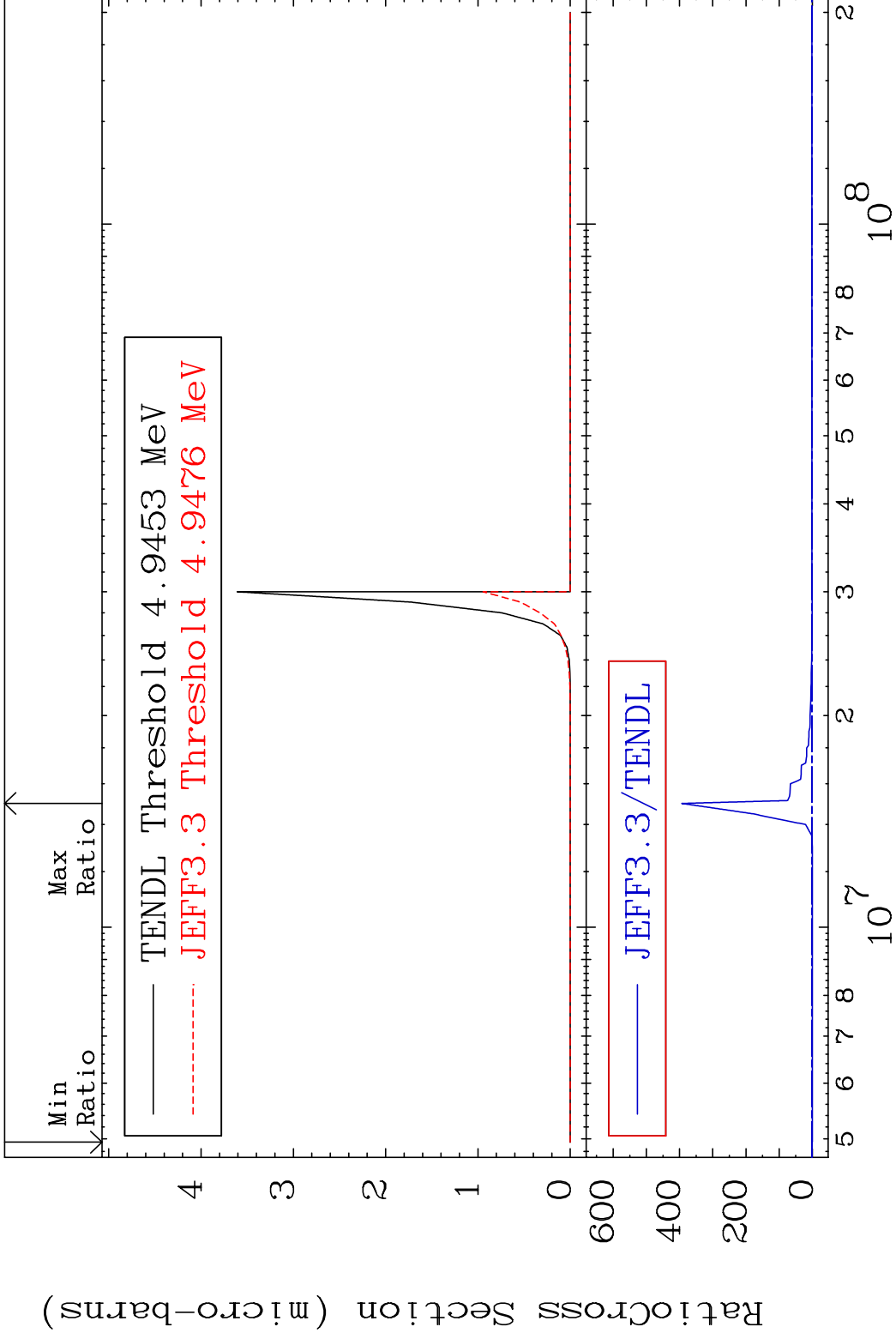
MAT 7025 (n,2n) p 70-Yb-168  
 Cross Section -100.0 To 105.2 %



MAT 7025

(n,n') p  $\alpha$  70-Yb-168

Cross Section -100.0 To 9999. %



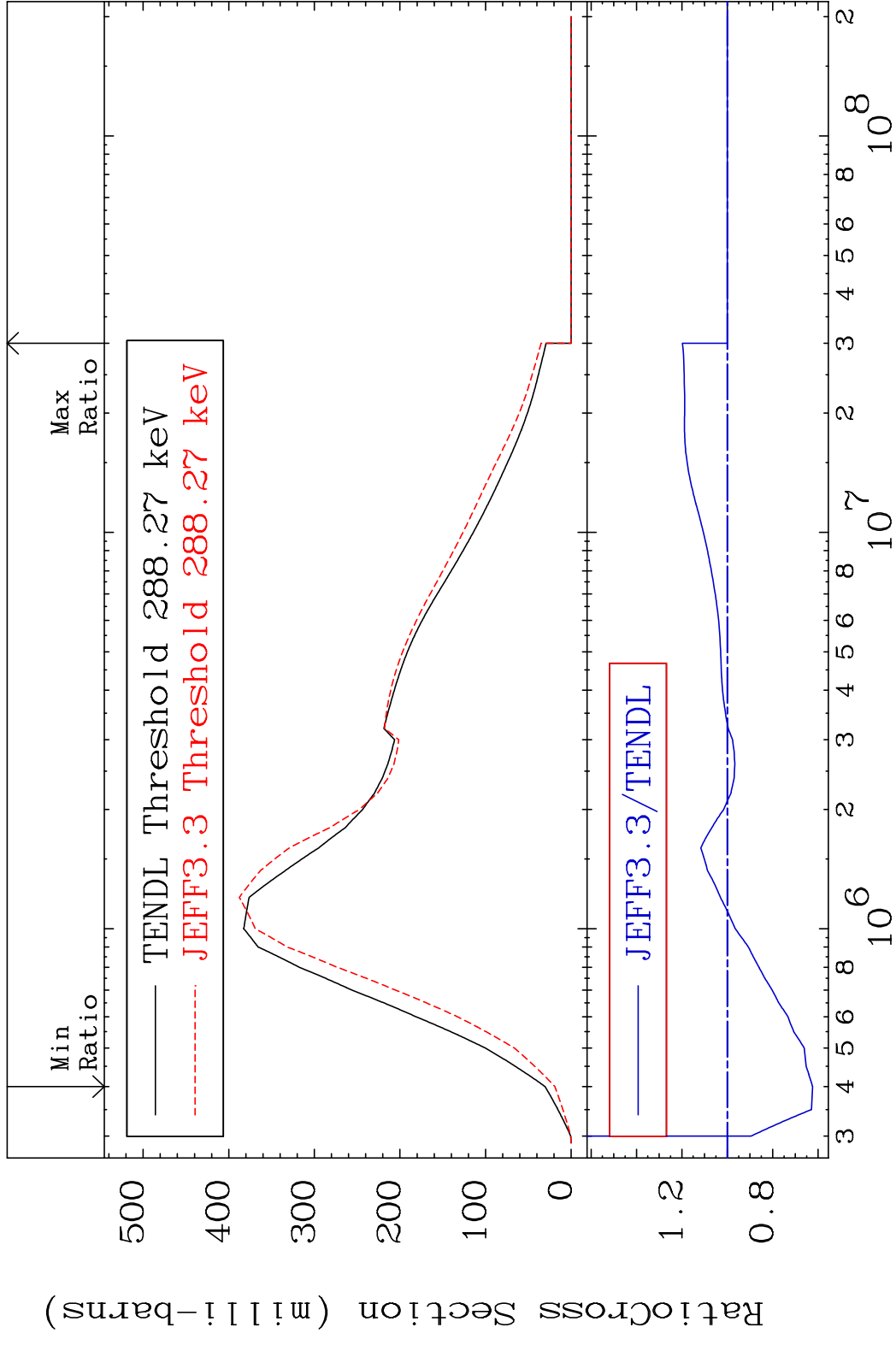
20

Incident Energy (eV)

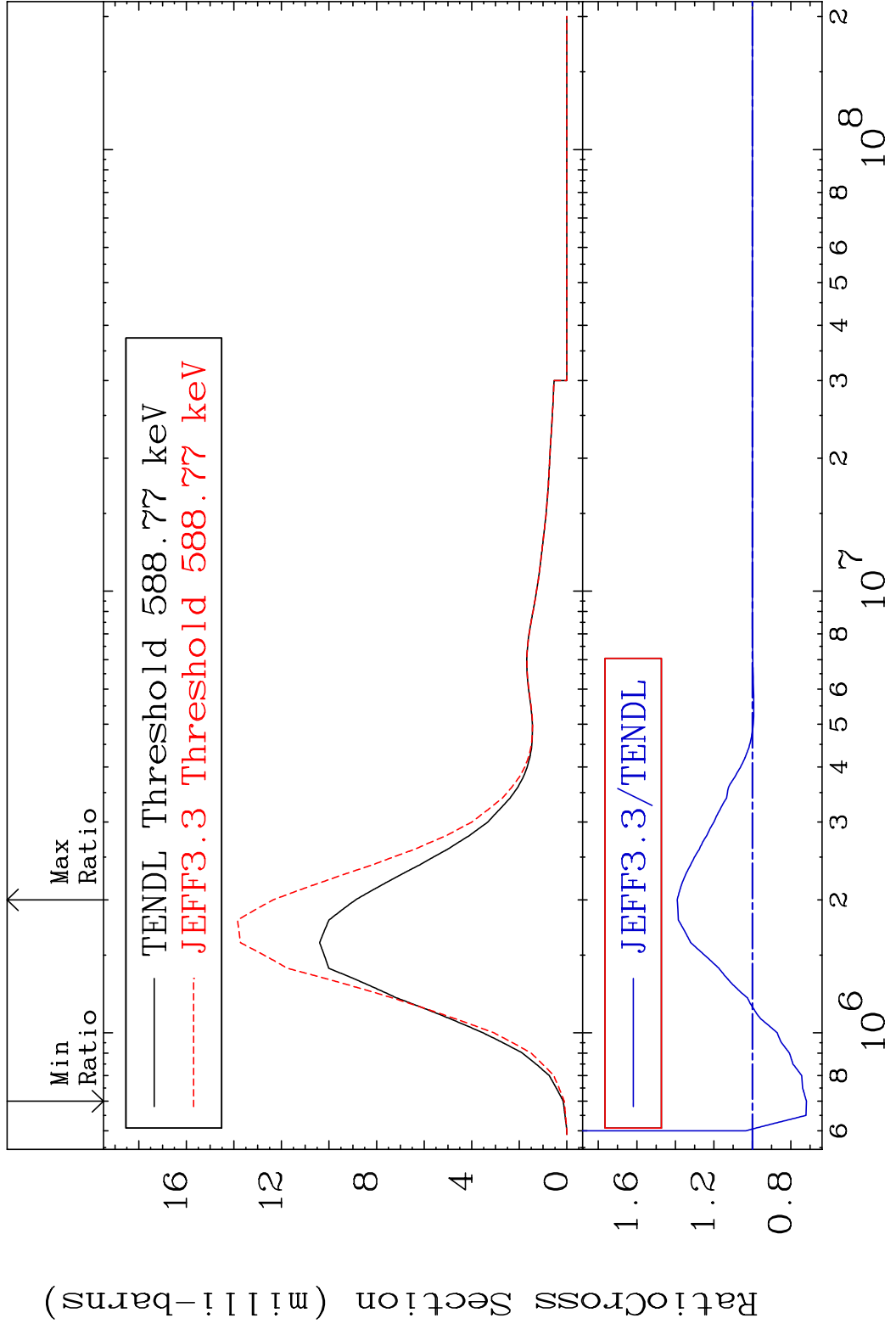
70-Yb-168



MAT 7025 MT= 52 (n, n') Level 70-Yb-168  
 Cross Section -37.58 To 19.79 %

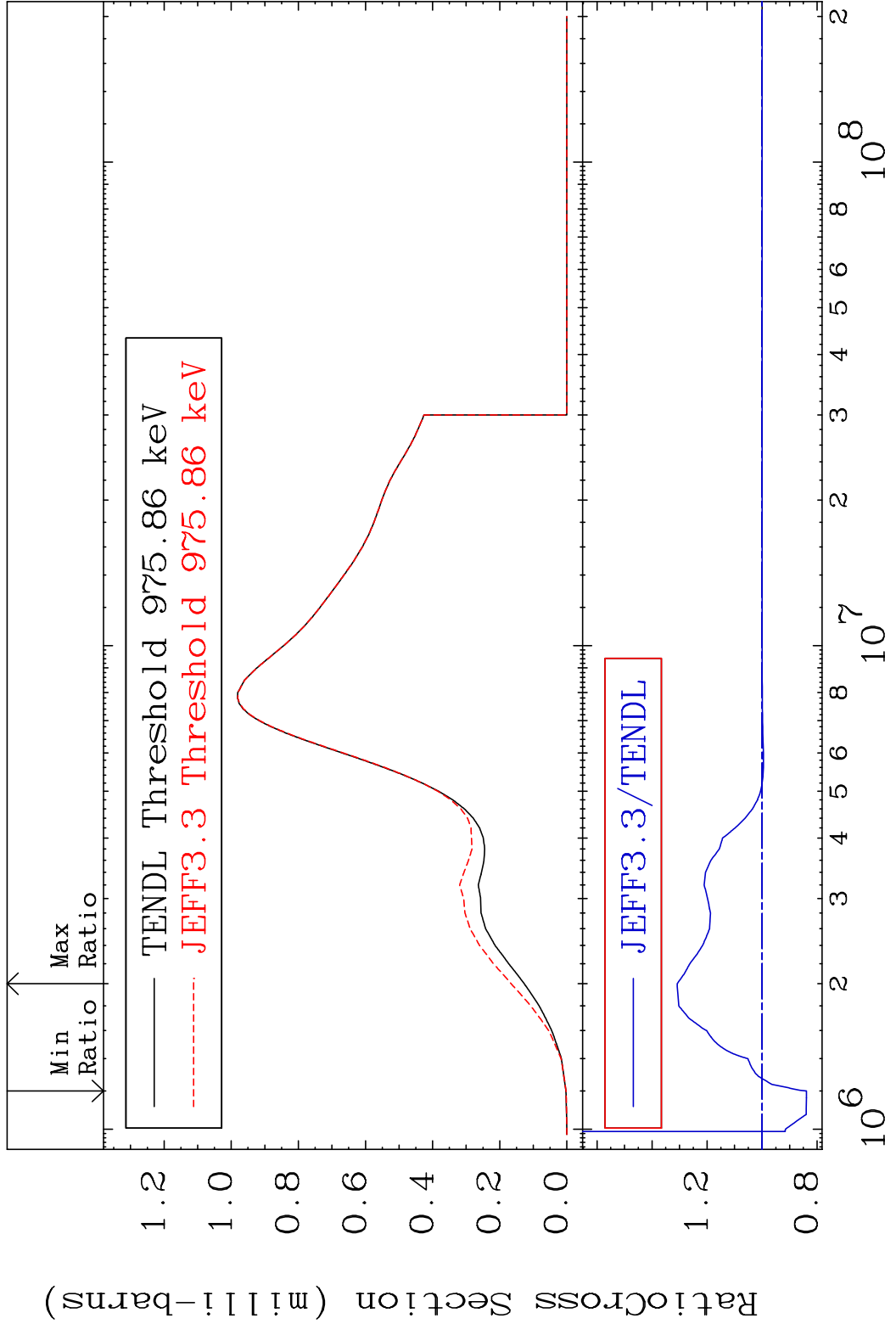


MAT 7025 MT= 53 (n,n') Level 70-Yb-168  
 Cross Section -28.08 To 39.04 %





MAT 7025 MT= 54 (n,n') Level 70-Yb-168  
 Cross Section -16.11 To 30.86 %

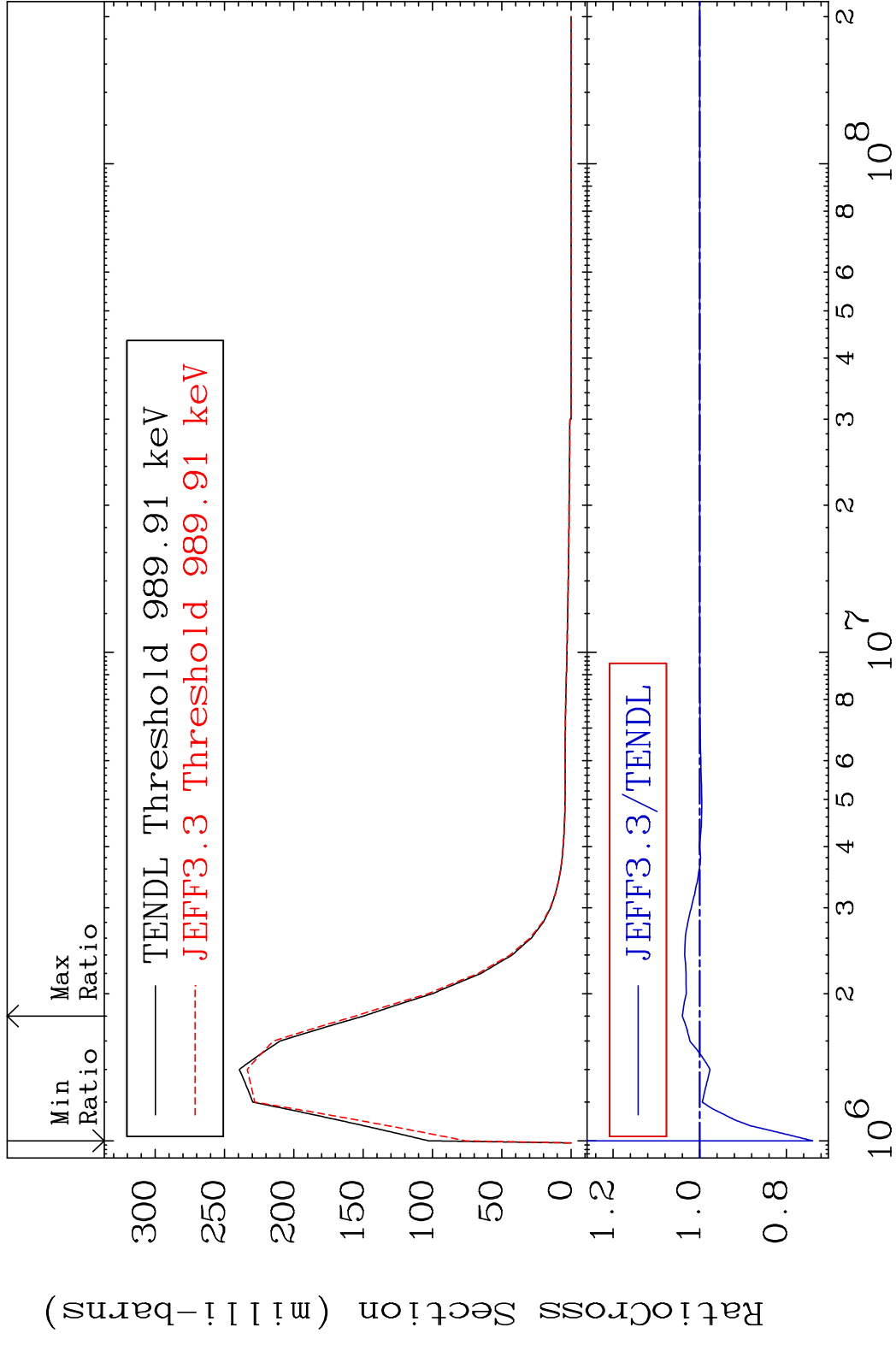


MAT 7025

MT= 55 (n,n') Level

70-Yb-168

Cross Section -26.04 To 4.003 %

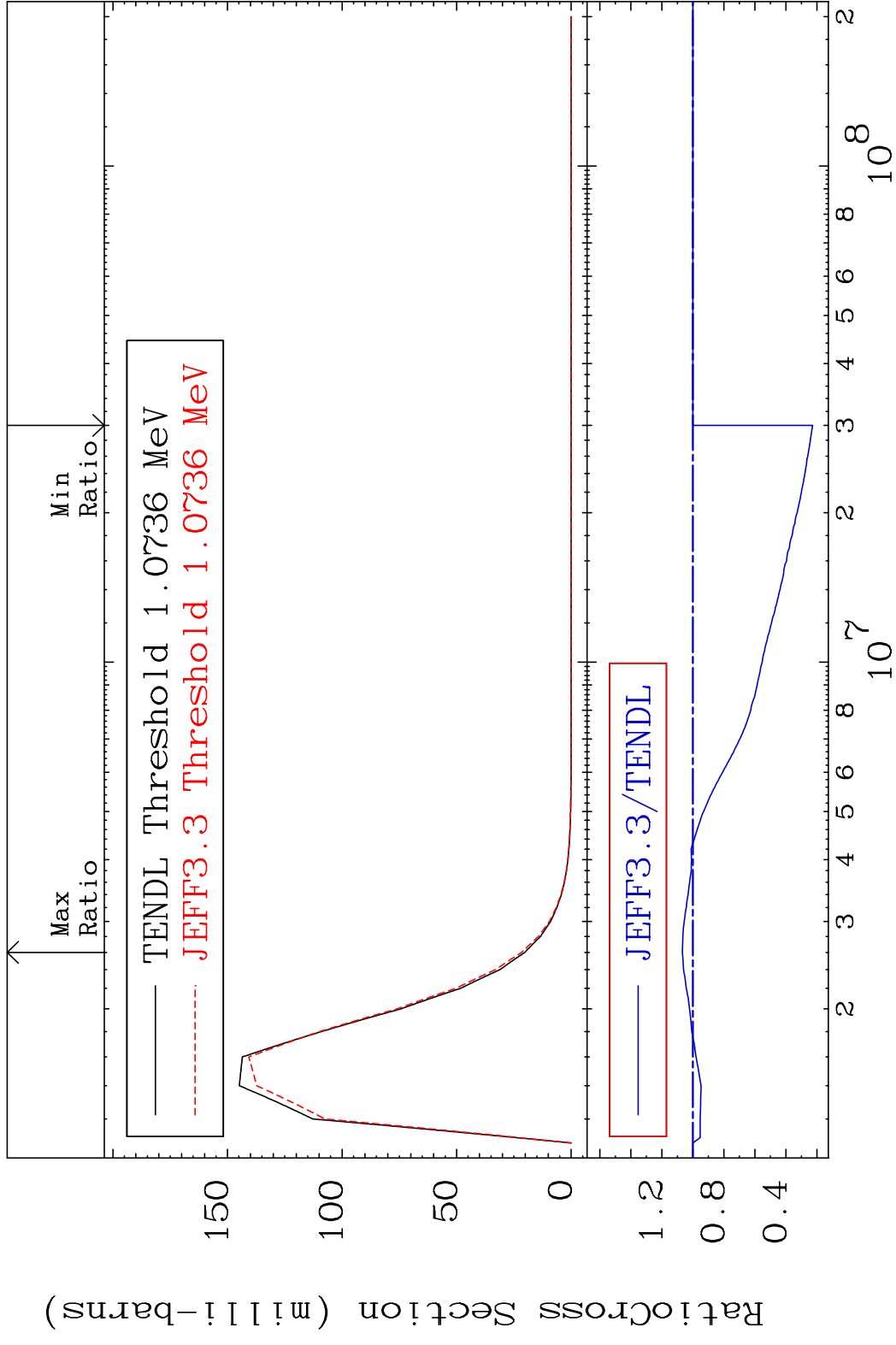


25

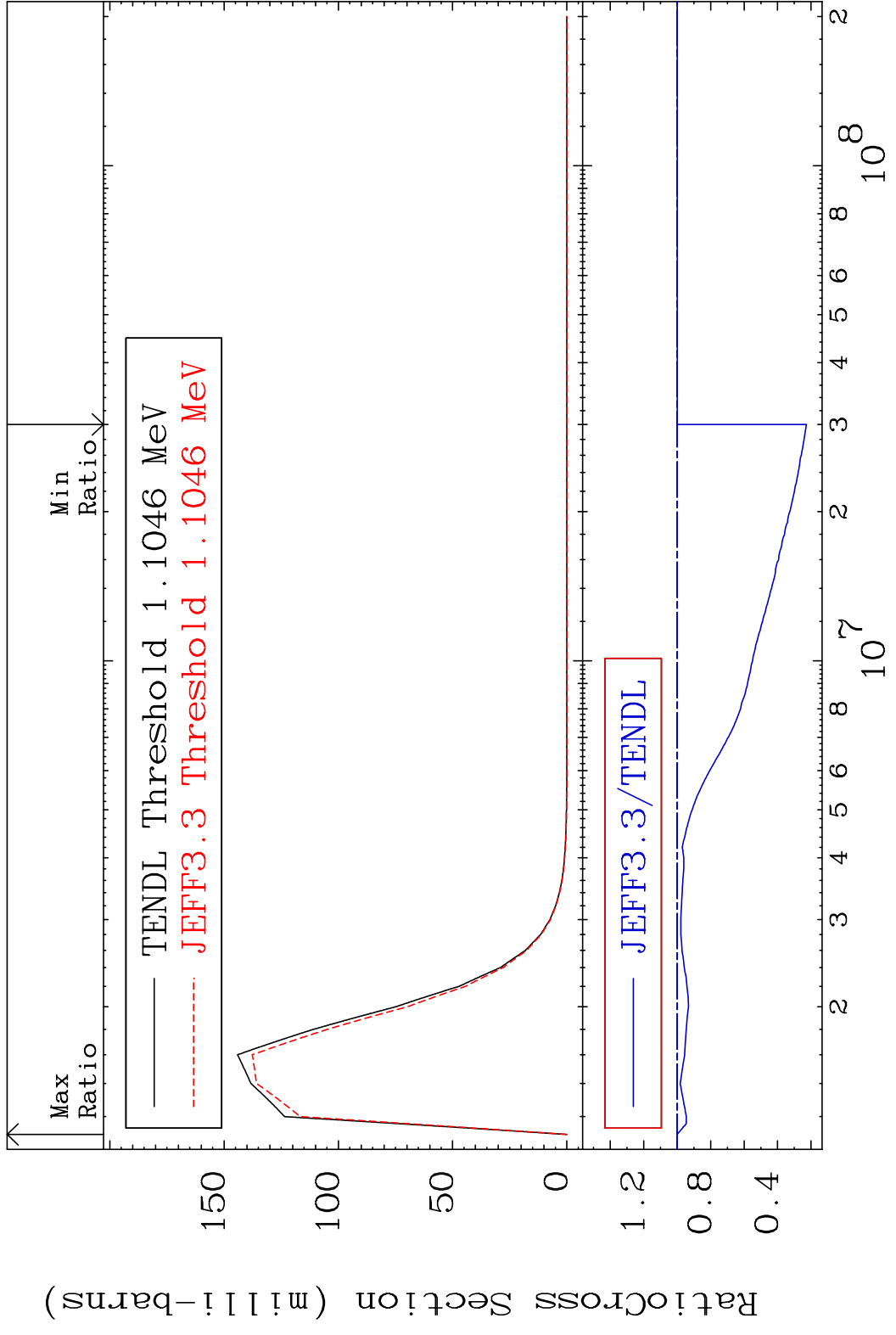
Incident Energy (eV)

70-Yb-168

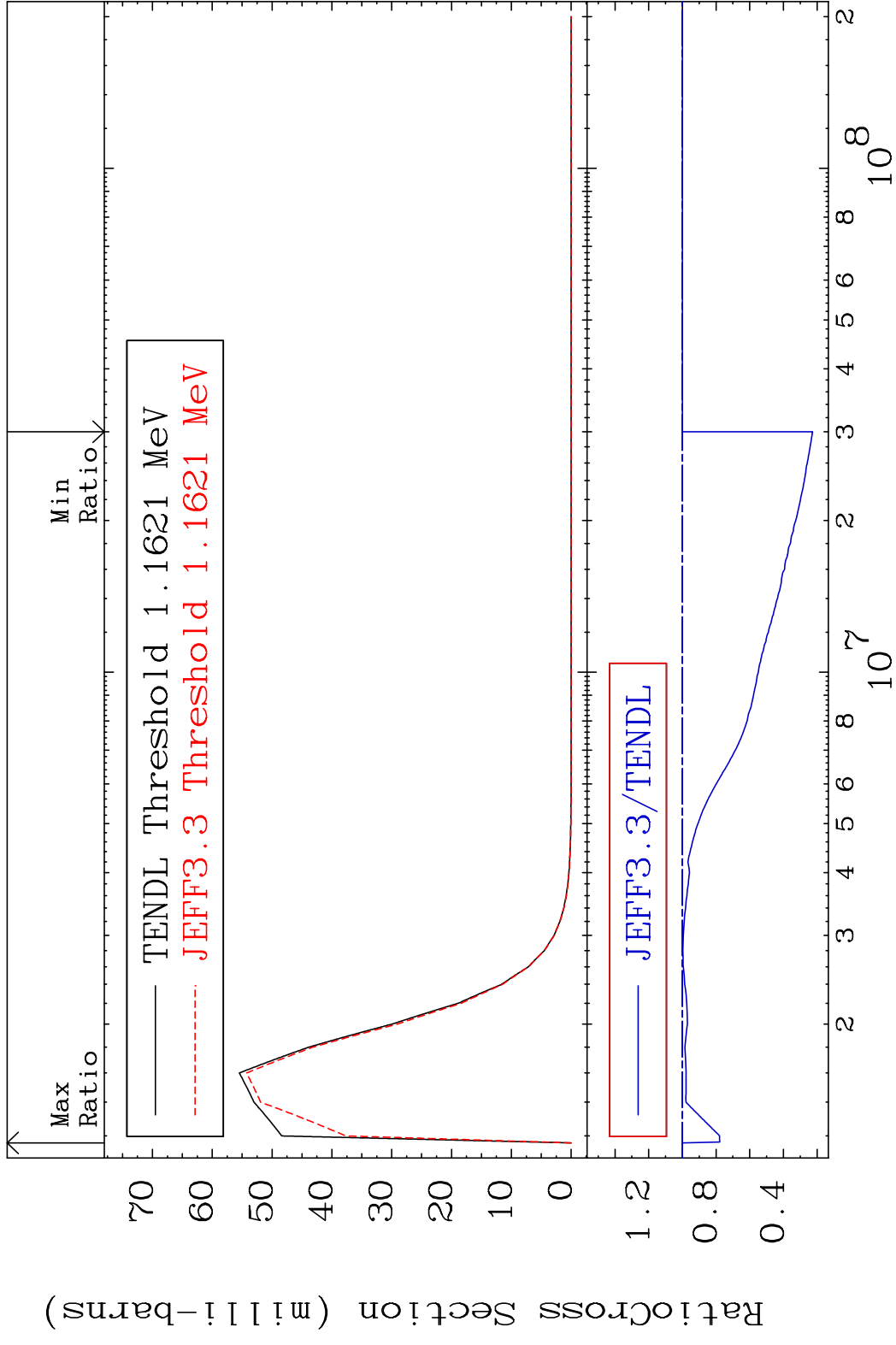
MAT 7025 MT= 56 (n,n') Level 70-Yb-168  
 Cross Section -77.14 To 6.821 %



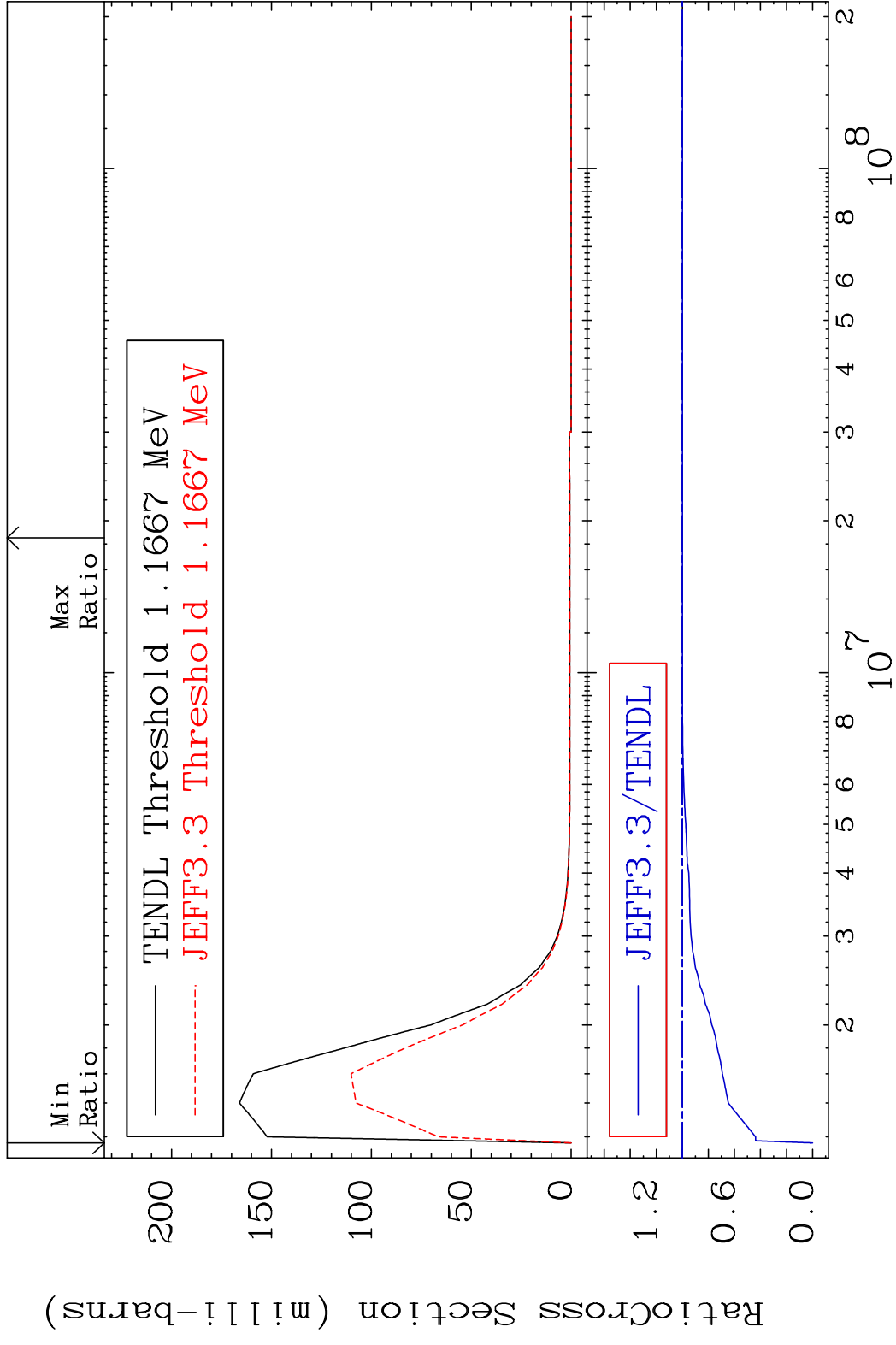
MAT 7025 MT= 57 (n, n') Level 70-Yb-168  
 Cross Section -77.22 To 0.000 %



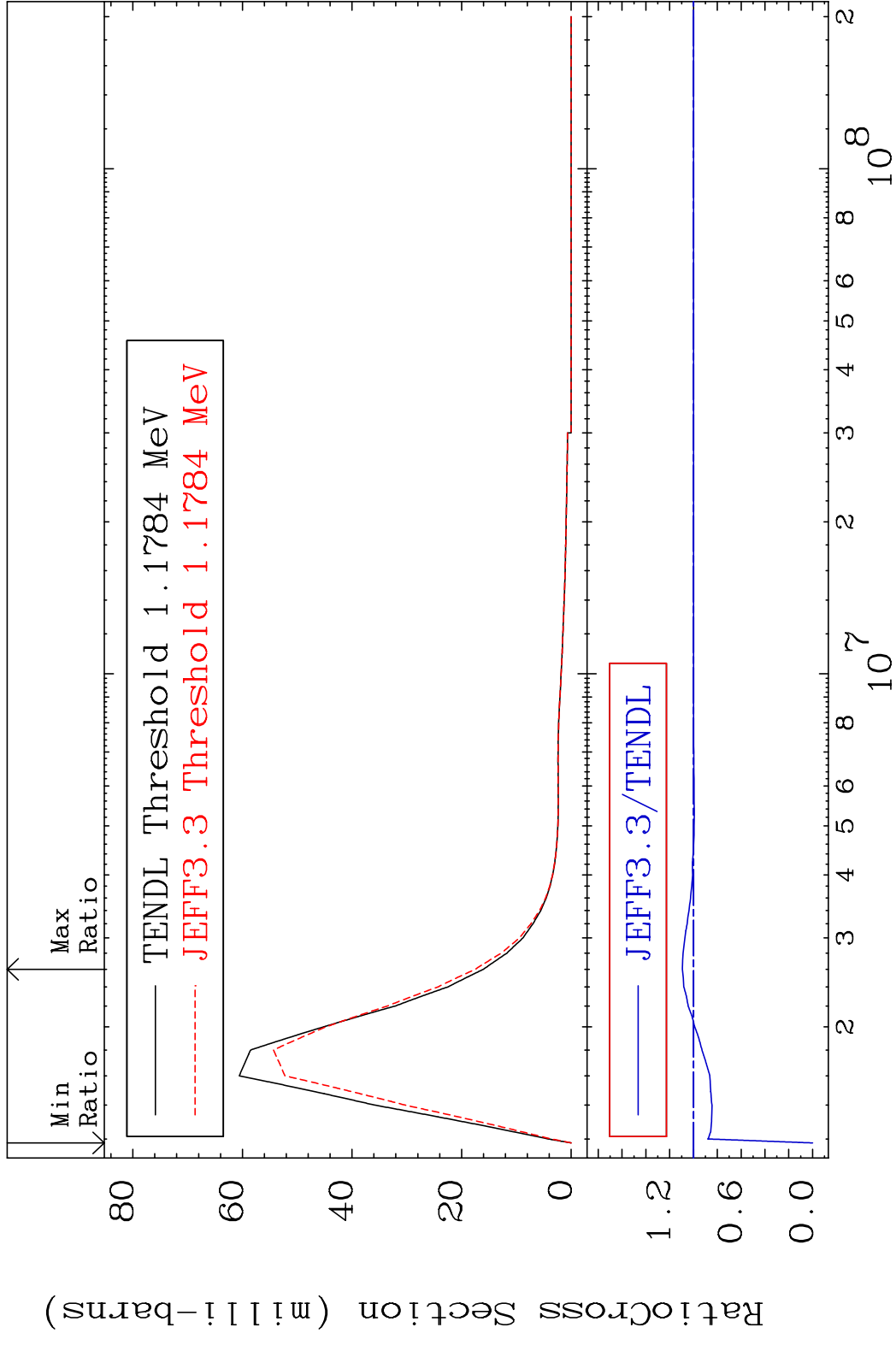
MAT 7025 MT= 58 (n, n') Level 70-Yb-168  
 Cross Section -77.33 To 0.000 %



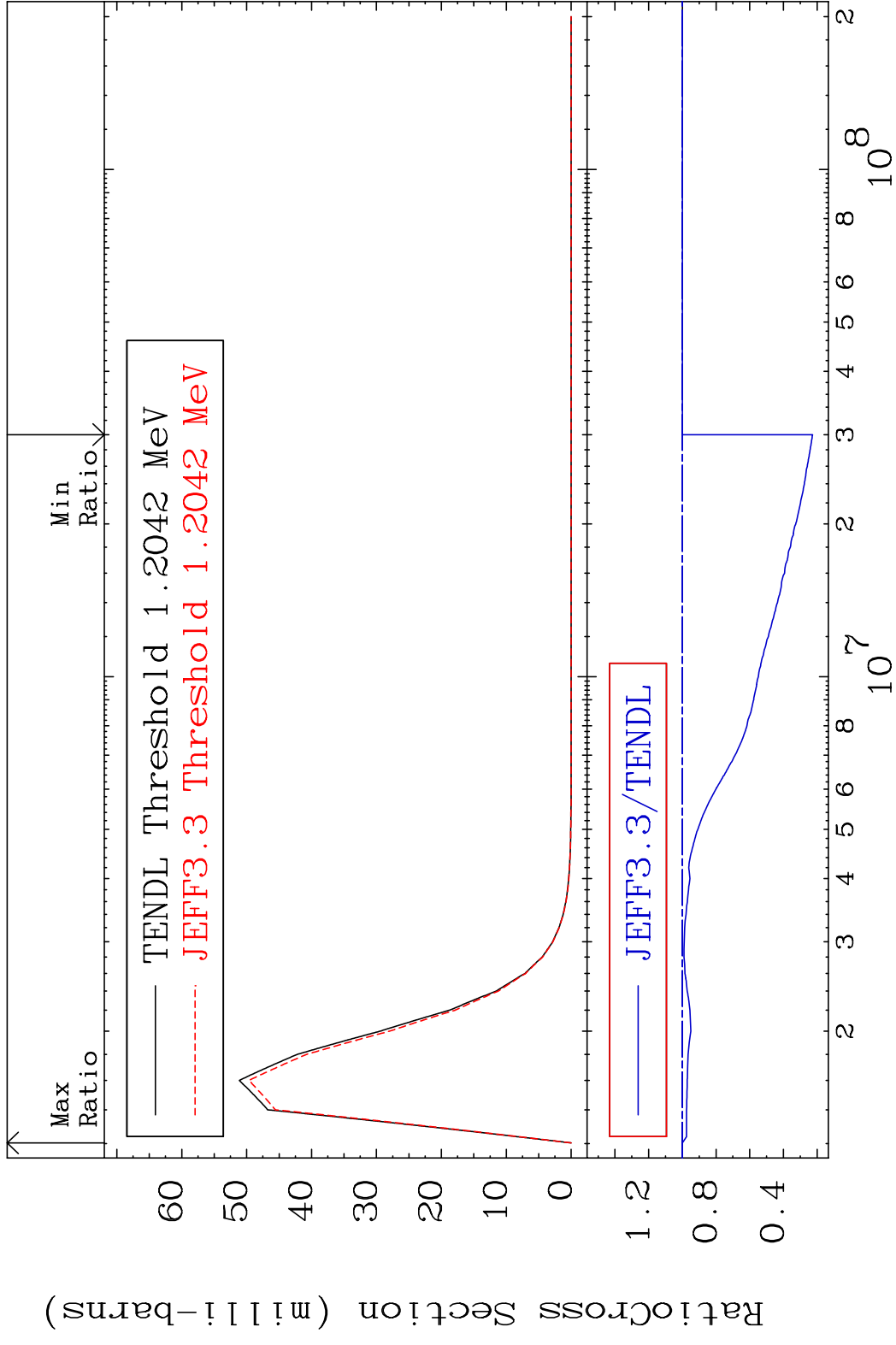
MAT 7025 MT= 59 (n, n') Level 70-Yb-168  
 Cross Section -100.0 To 0.000 %



MAT 7025 MT= 60 (n, n') Level 70-Yb-168  
 Cross Section -100.0 To 9.364 %

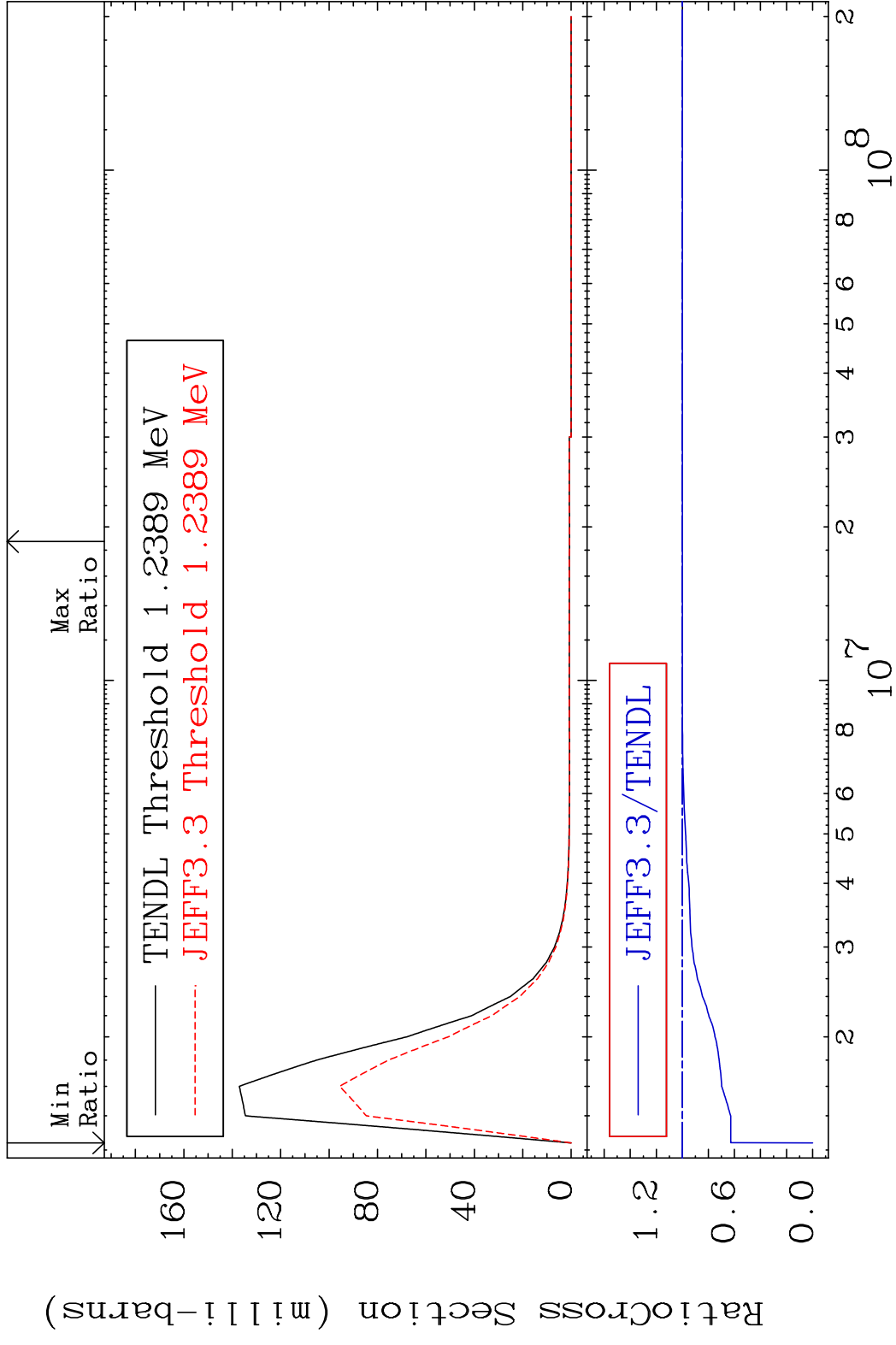


MAT 7025 MT= 61 (n, n') Level 70-Yb-168  
 Cross Section -77.32 To 0.000 %

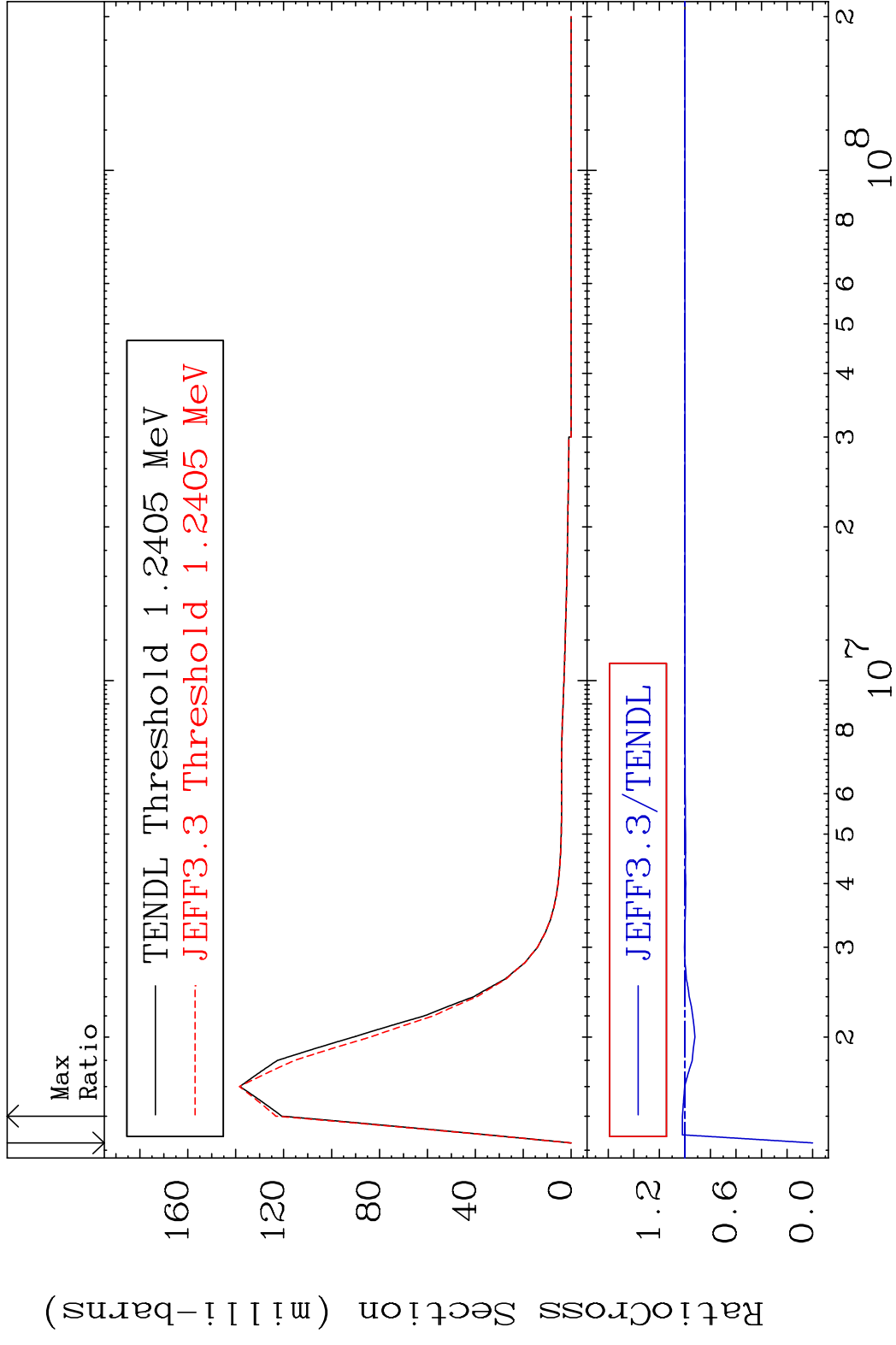




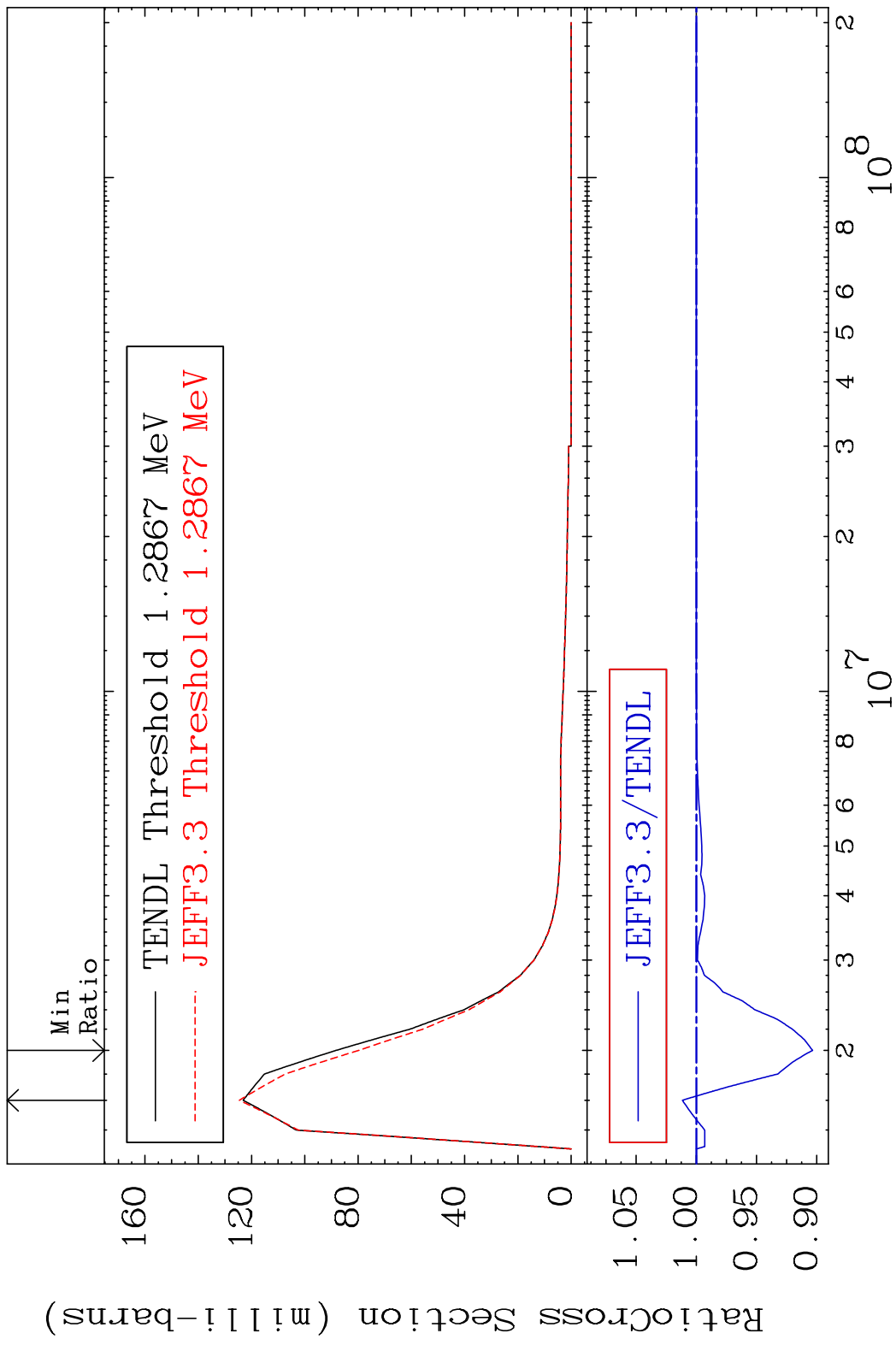
MAT 7025 MT= 62 (n, n') Level 70-Yb-168  
 Cross Section -100.0 To 0.000 %



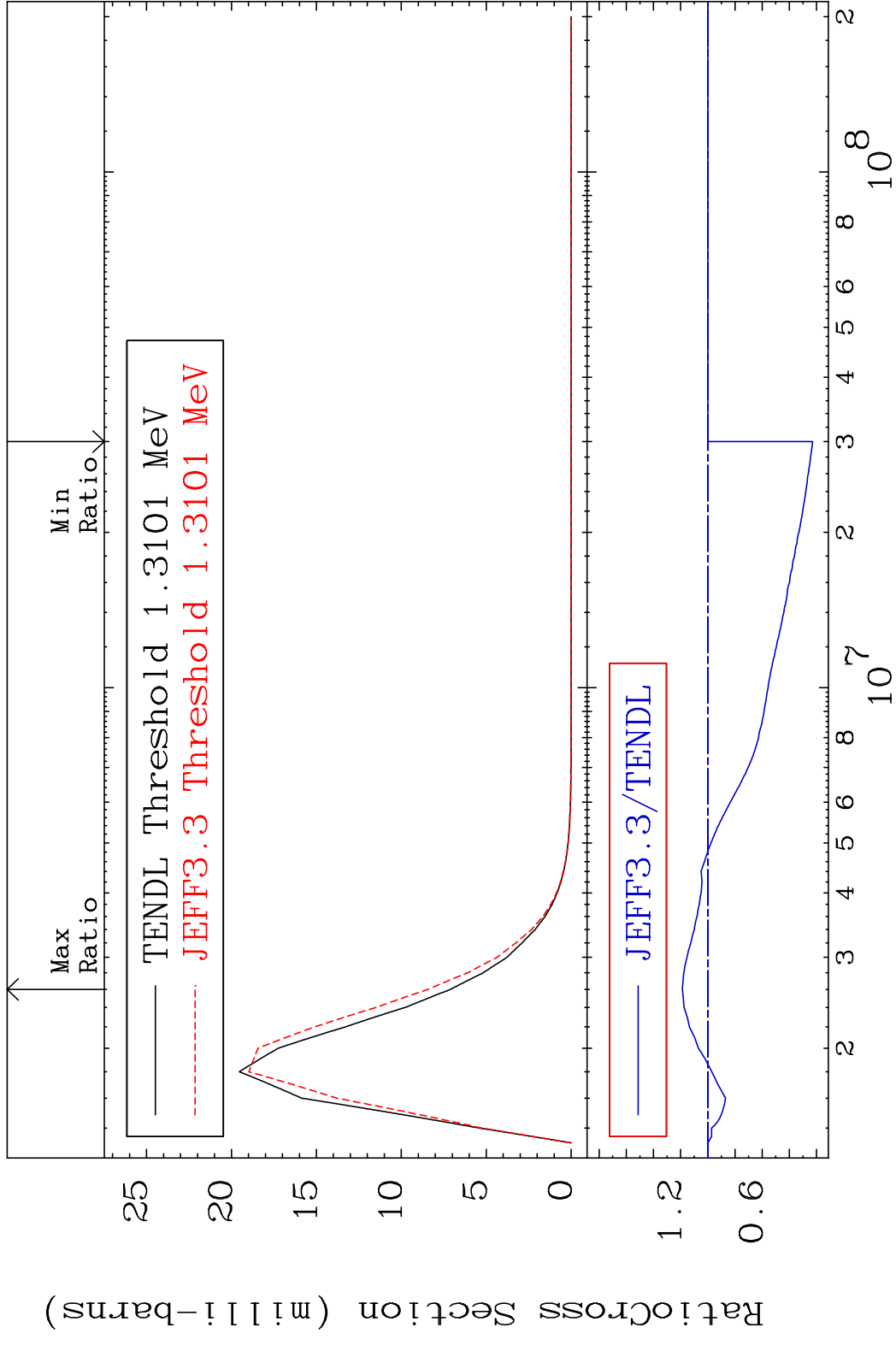
MAT 7025 MT= 63 (n, n') Level 70-Yb-168  
 Cross Section -100.0 To 2.001 %



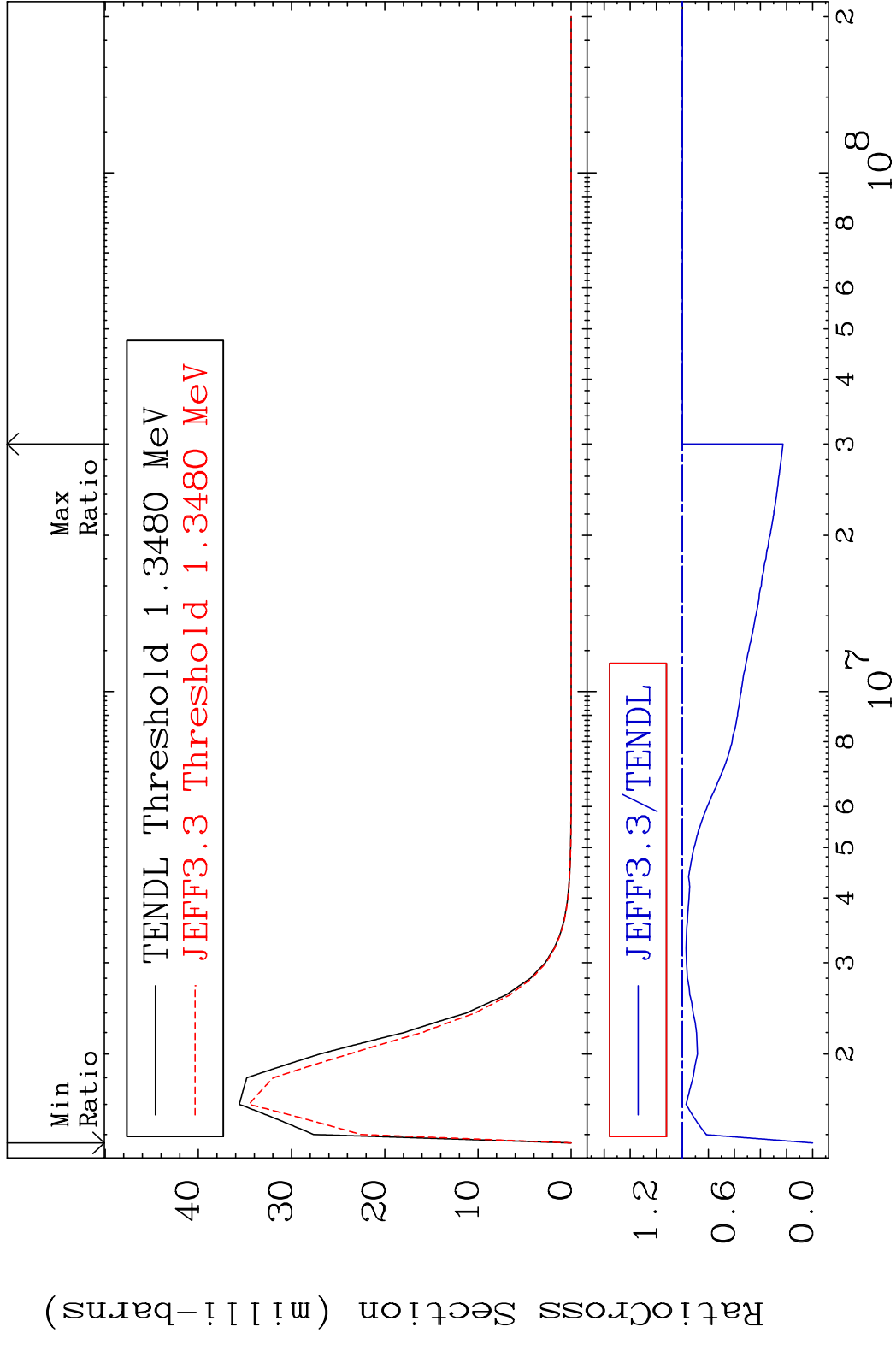
MAT 7025 MT= 64 (n,n') Level 70-Yb-168  
 Cross Section -9.652 To 1.164 %



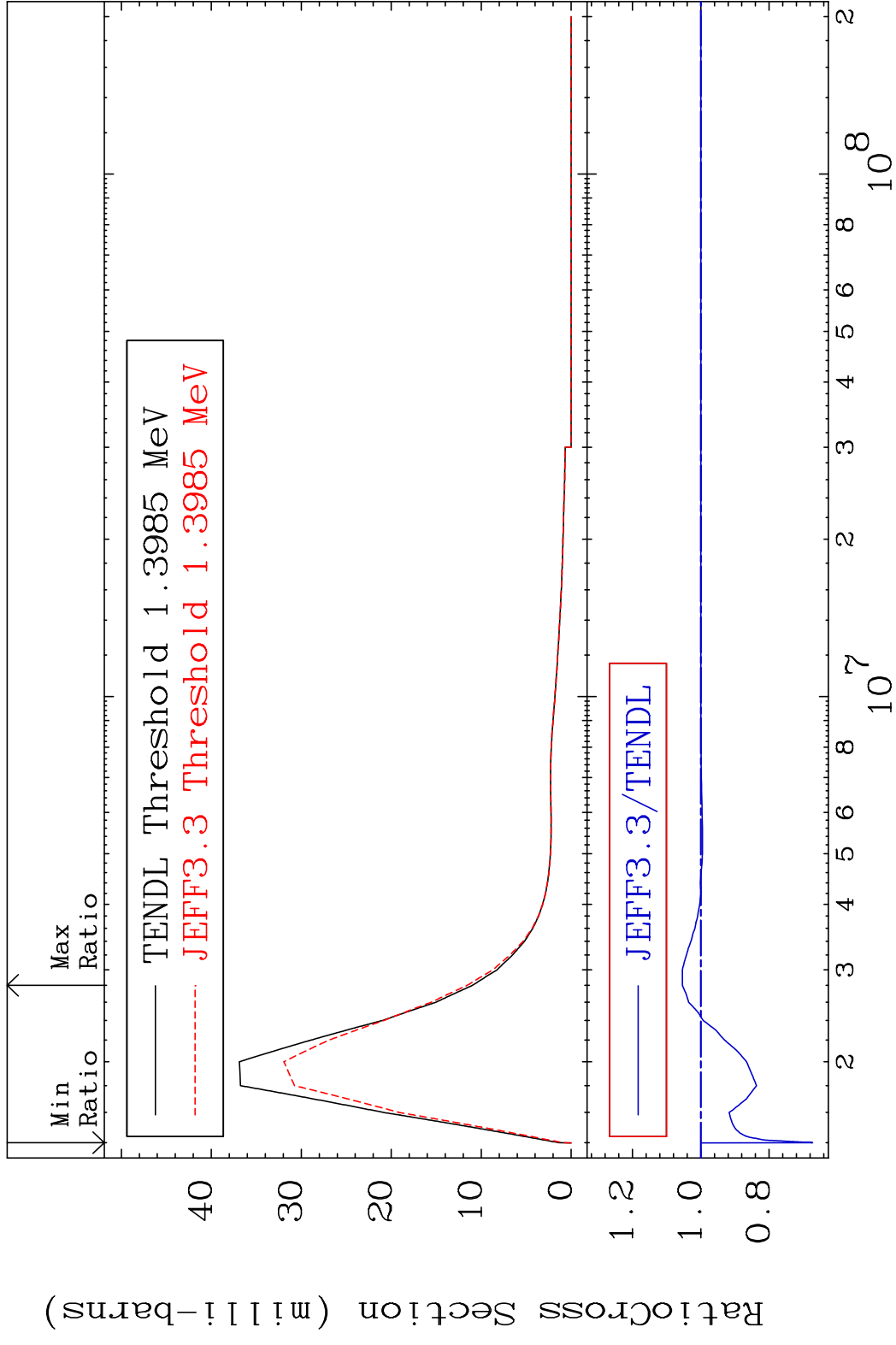
MAT 7025 MT= 65 (n,n') Level 70-Yb-168  
 Cross Section -77.07 To 18.74 %



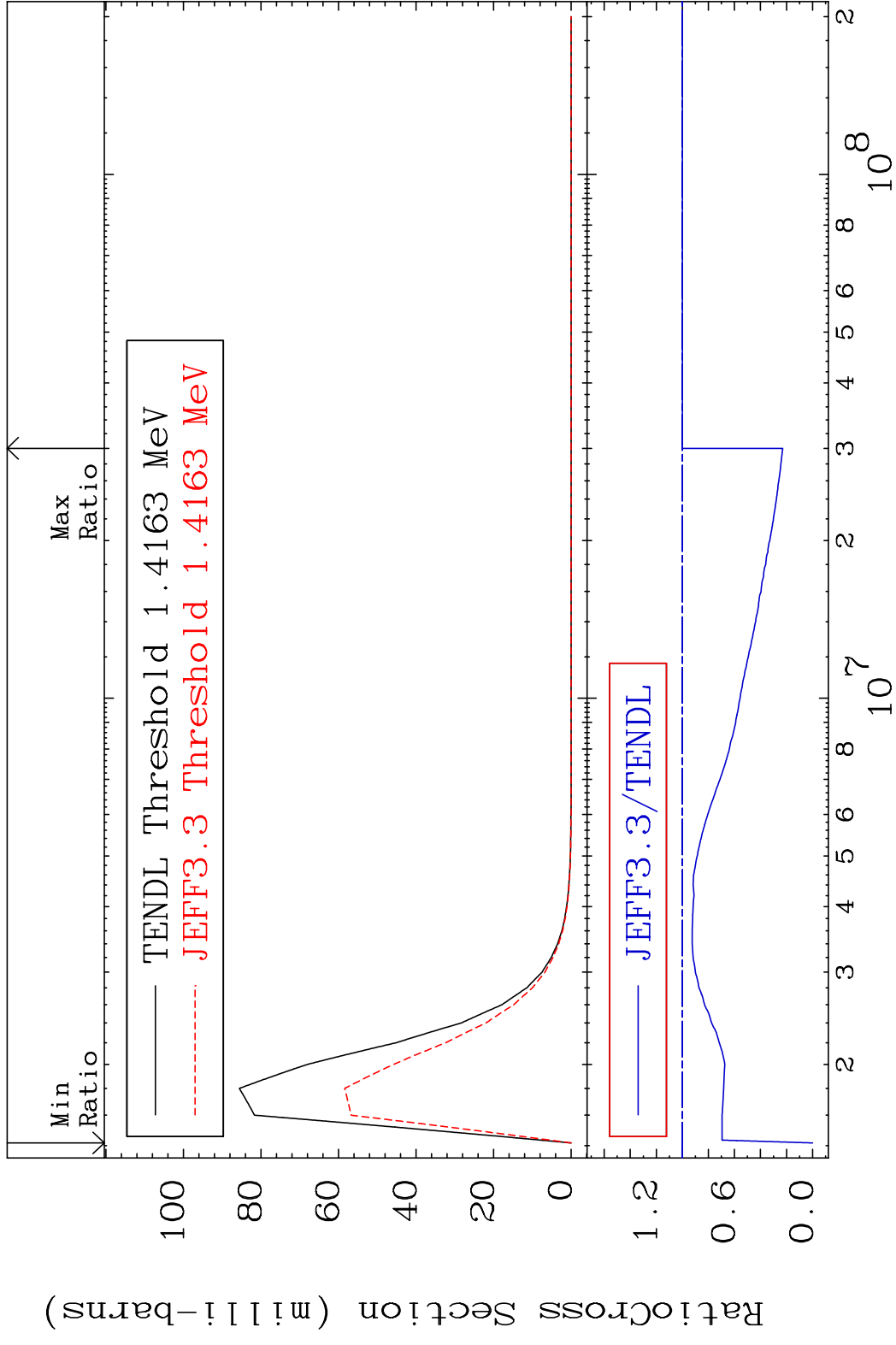
MAT 7025 MT= 66 (n, n') Level 70-Yb-168  
 Cross Section -100.0 To 0.000 %



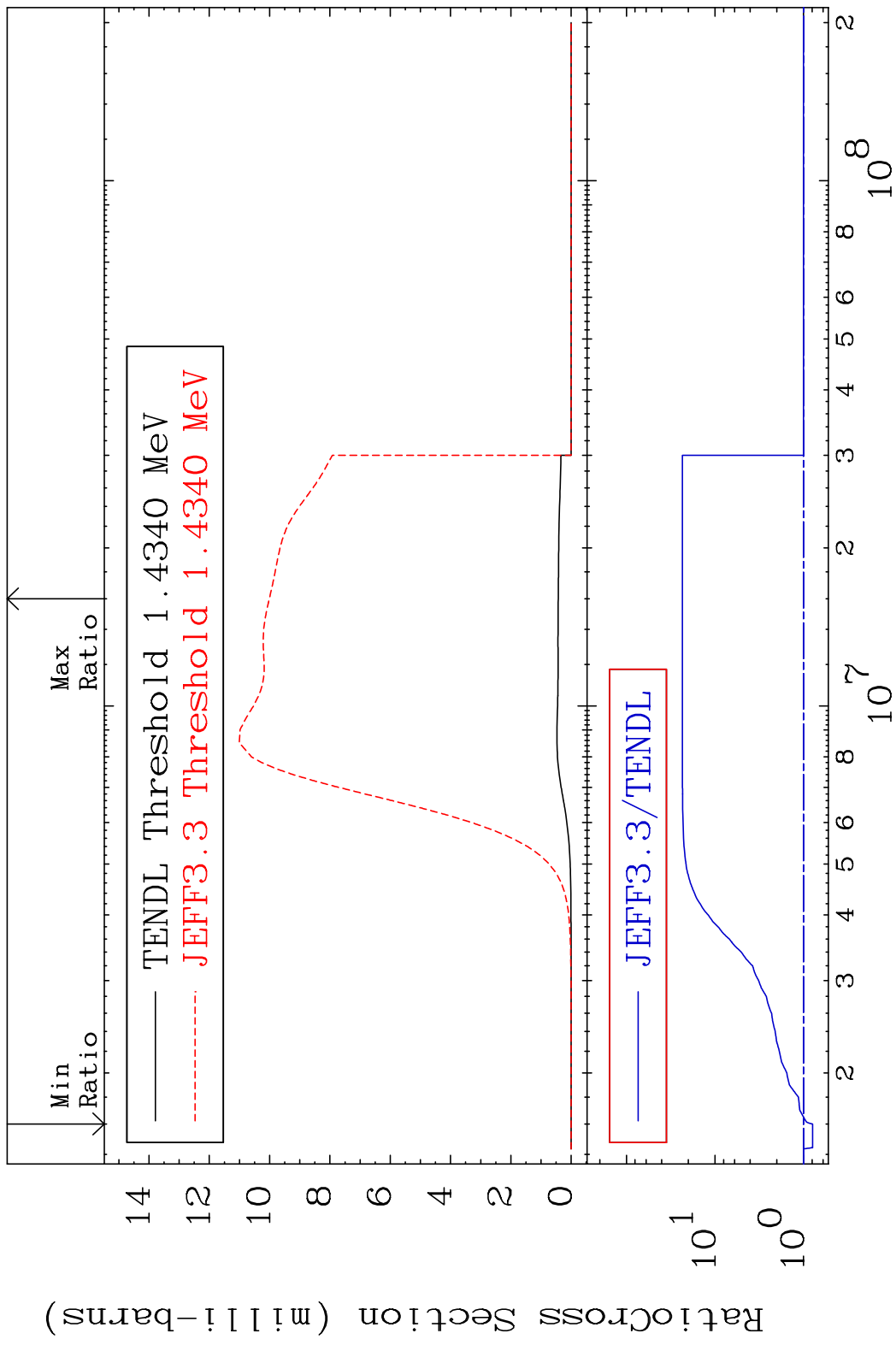
MAT 7025 MT= 67 (n, n') Level 70-Yb-168  
 Cross Section -32.70 To 5.383 %



MAT 7025 MT= 68 (n,n') Level 70-Yb-168  
 Cross Section -100.0 To 0.000 %

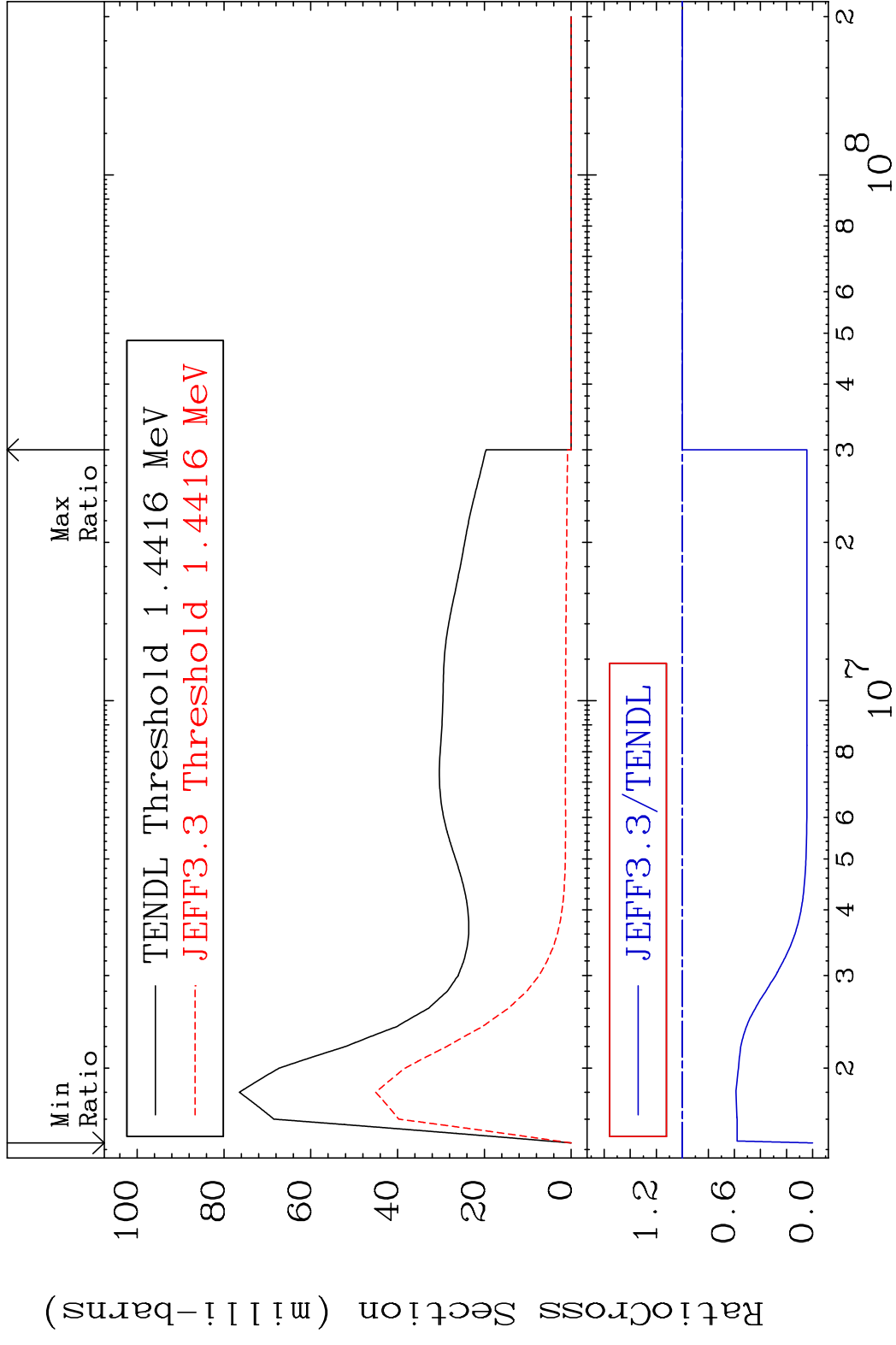


MAT 7025 MT= 69 (n, n') Level 70-Yb-168  
 Cross Section -21.01 To 2236. %





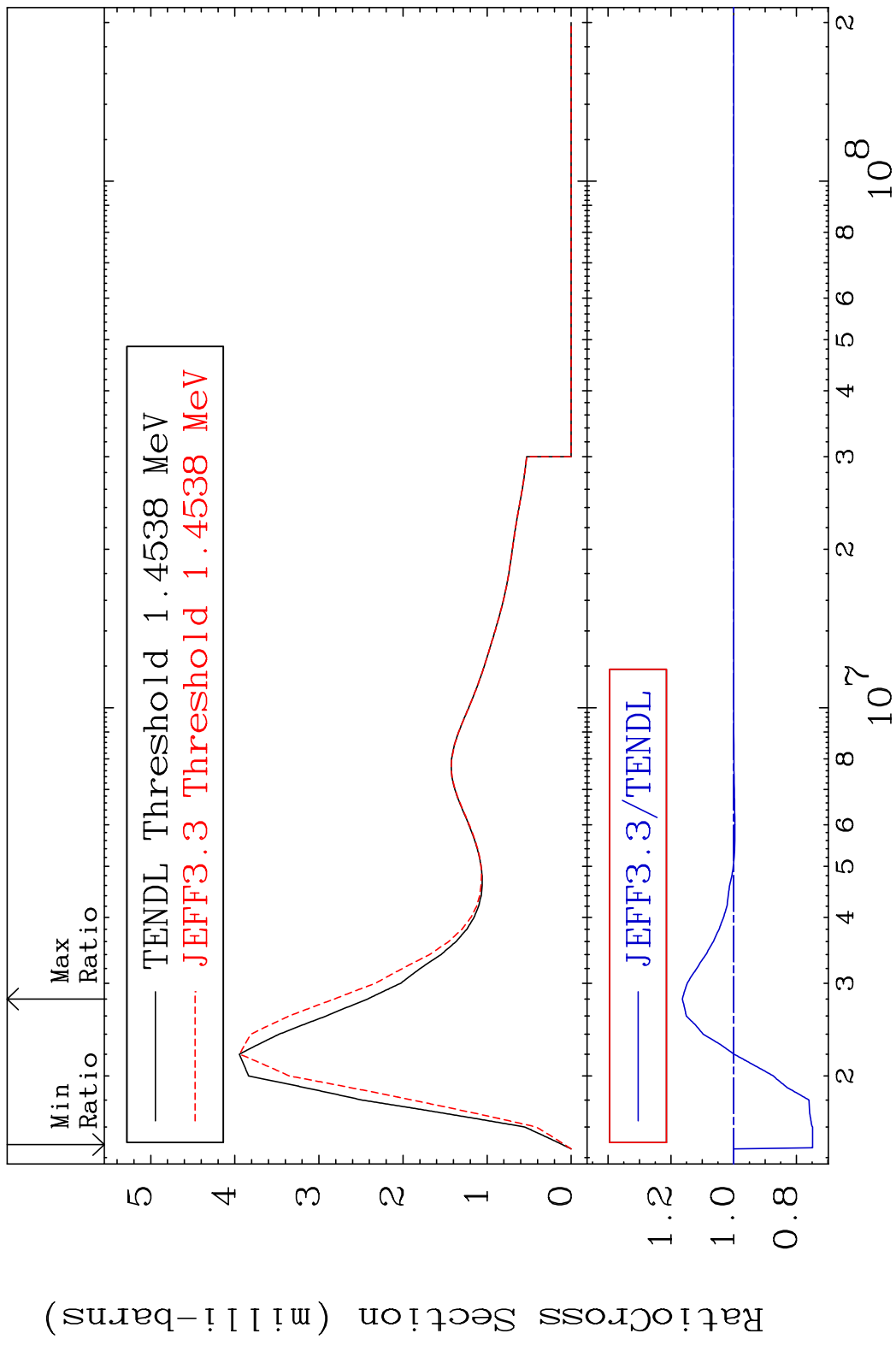
MAT 7025 MT= 70 (n, n') Level 70-Yb-168  
 Cross Section -100.0 To 0.000 %



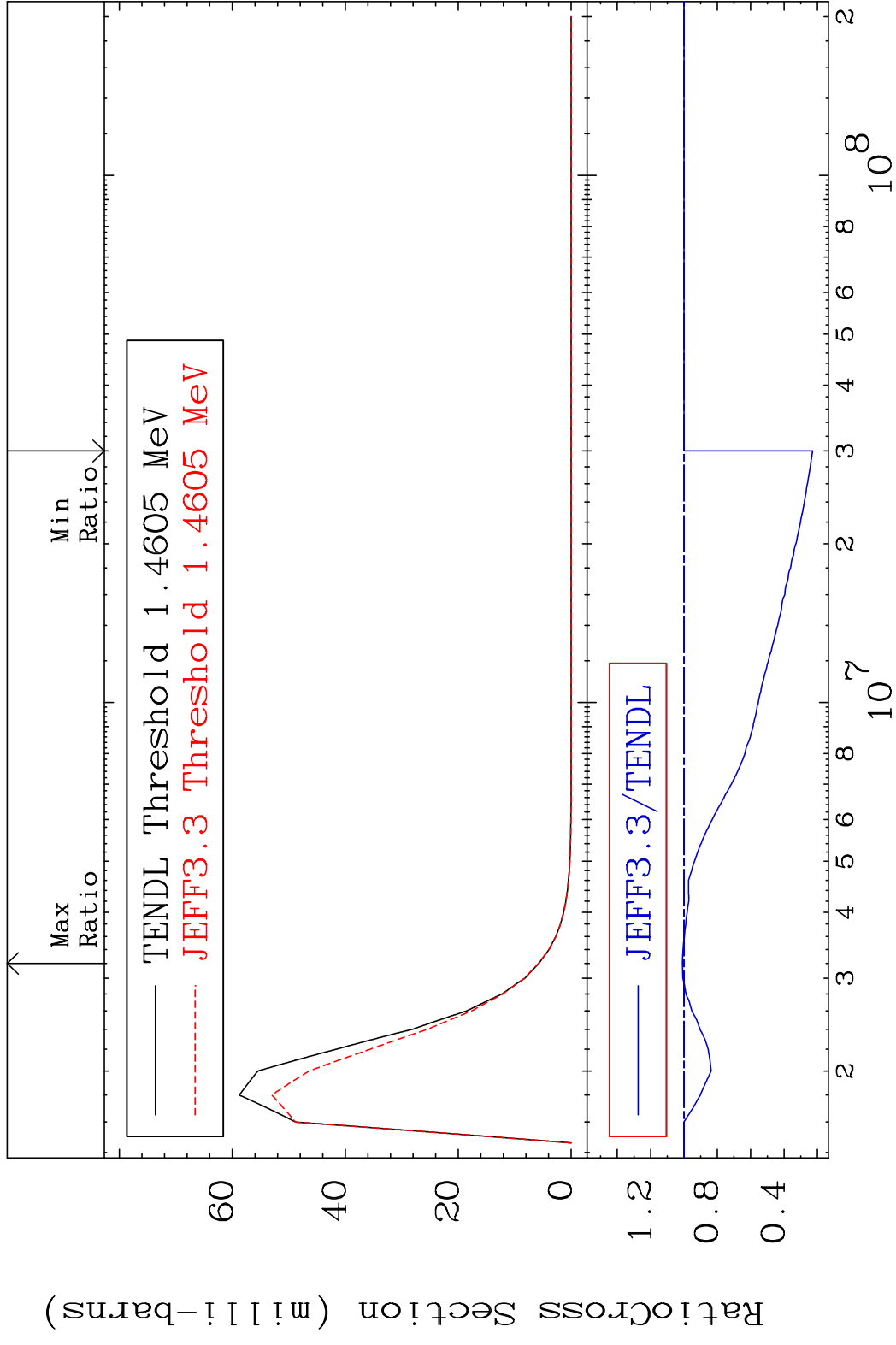
40

70-Yb-168

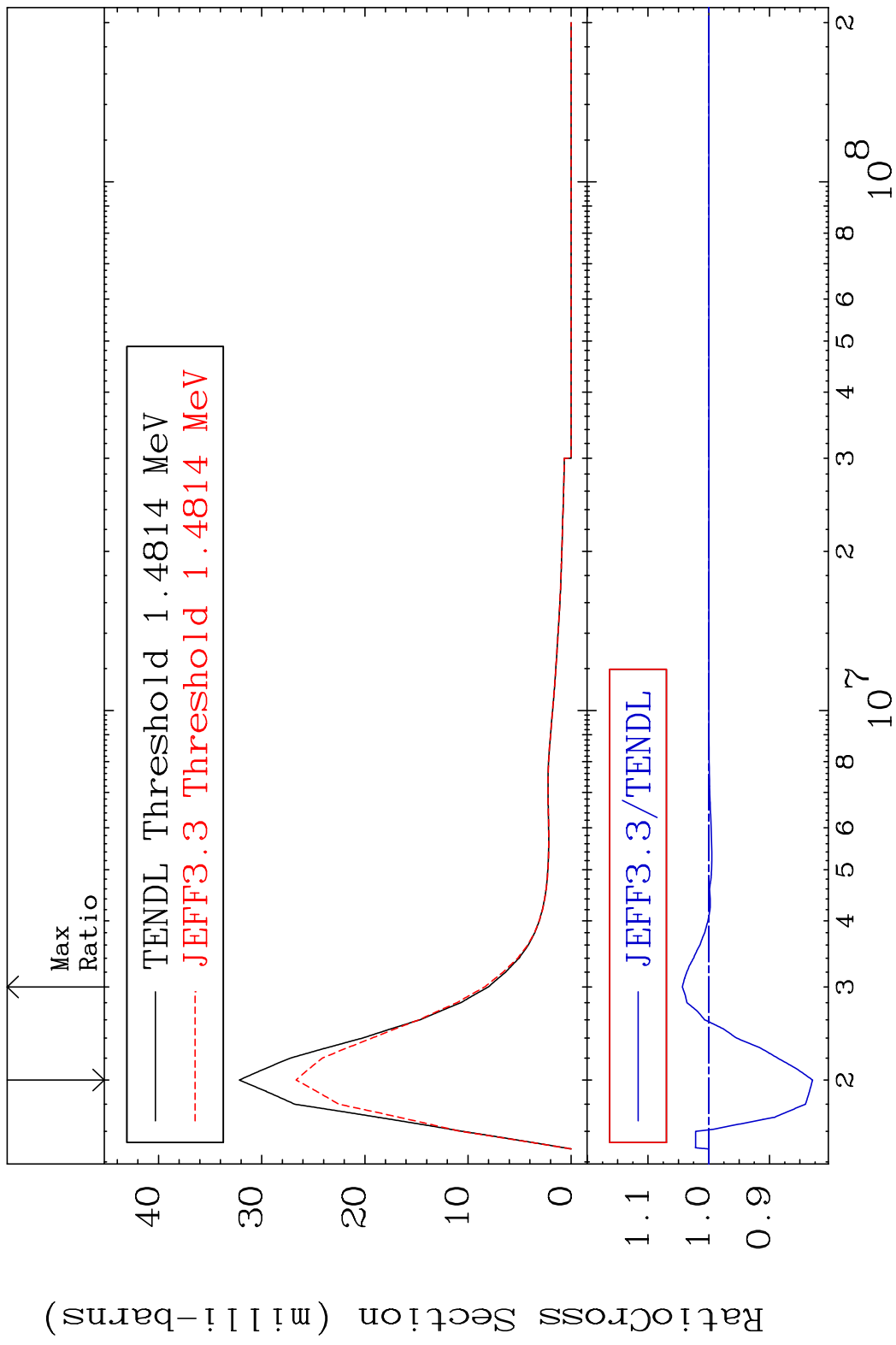
MAT 7025 MT= 71 (n, n') Level 70-Yb-168  
 Cross Section -25.13 To 16.35 %



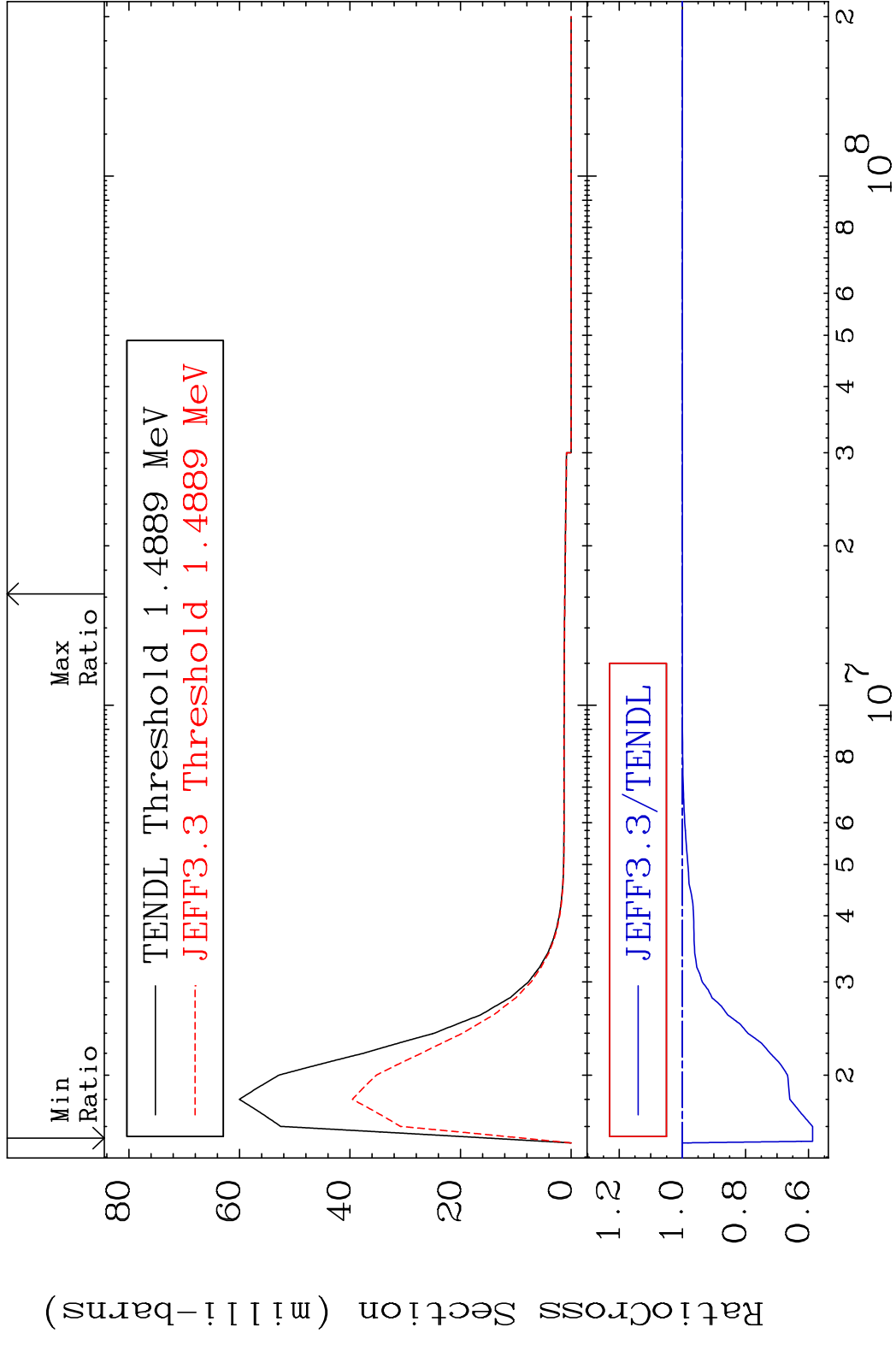
MAT 7025 MT= 72 (n, n') Level 70-Yb-168  
 Cross Section -77.12 To 0.970 %



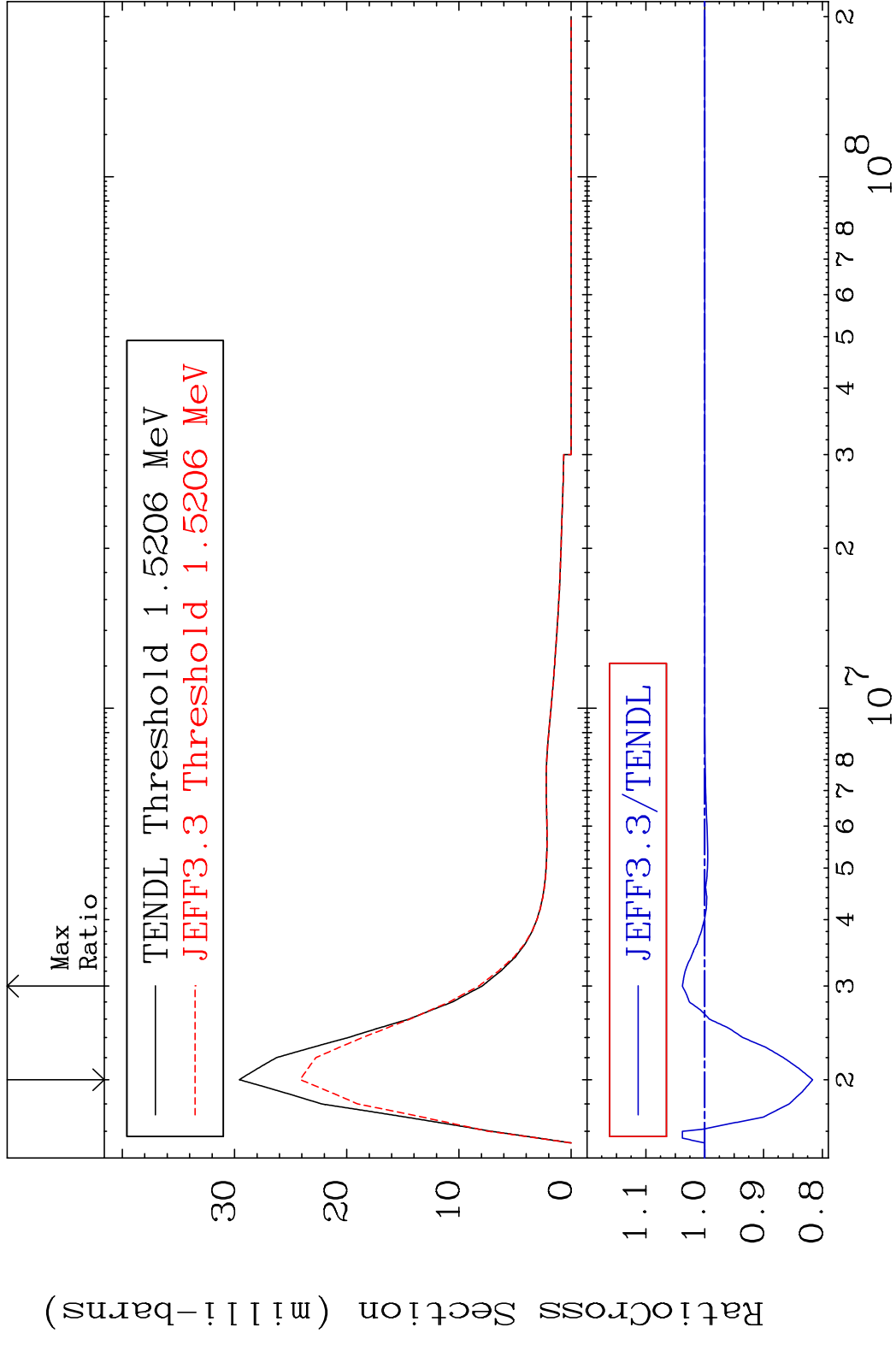
MAT 7025 MT= 73 (n, n') Level 70-Yb-168  
 Cross Section -17.09 To 4.351 %



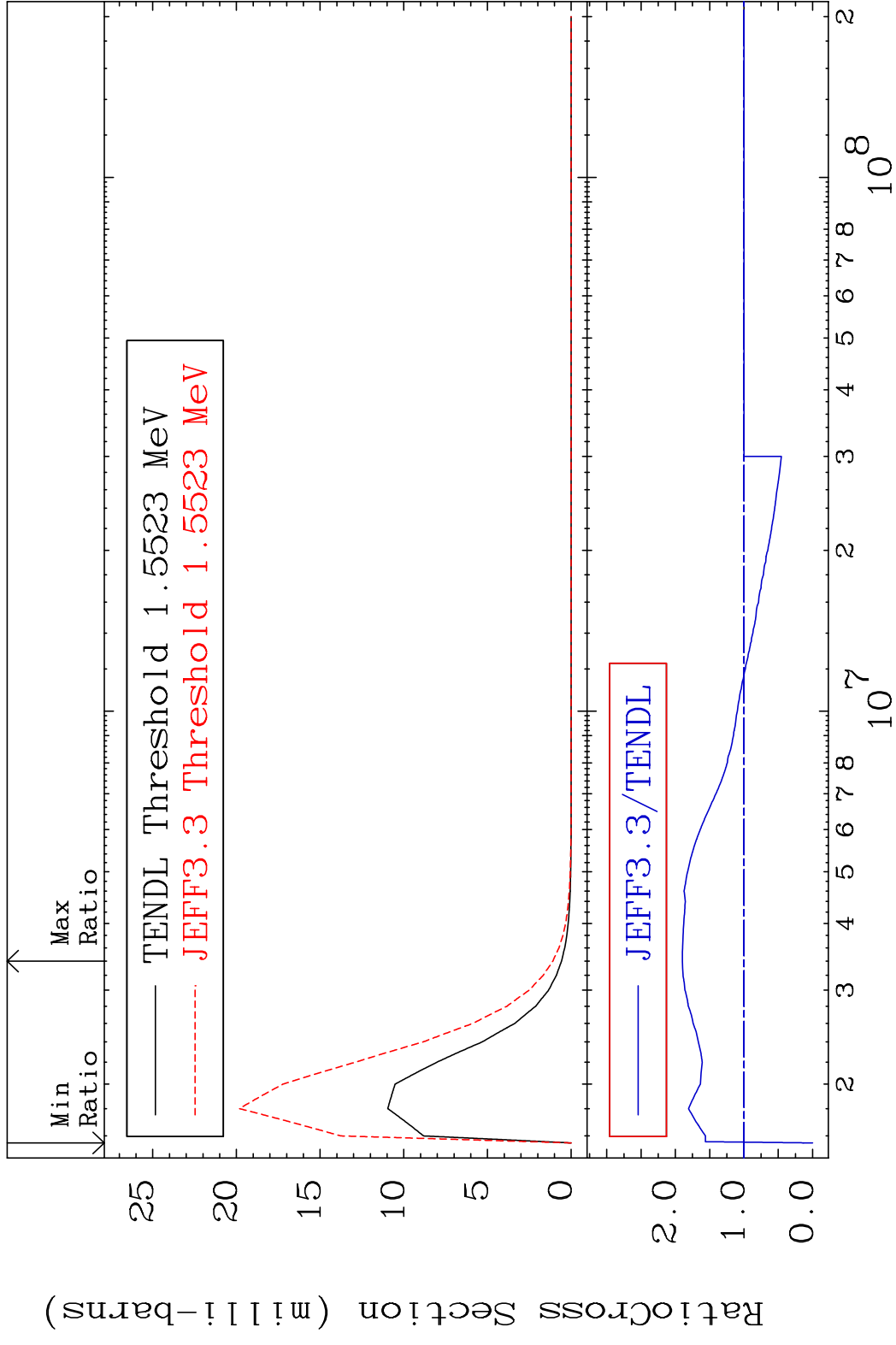
MAT 7025 MT= 74 (n, n') Level 70-Yb-168  
 Cross Section -41.26 To 0.000 %



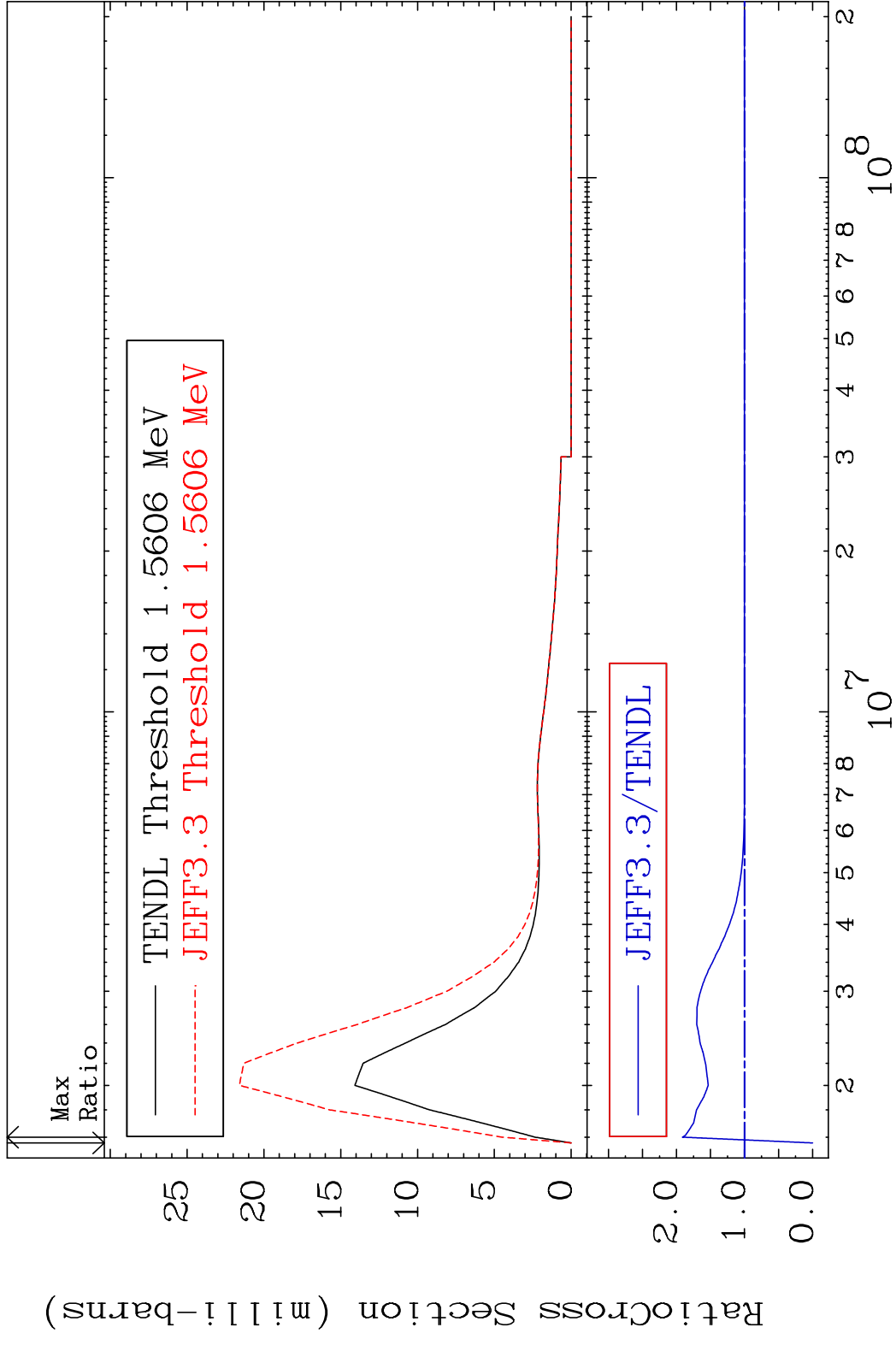
MAT 7025 MT= 75 (n,n') Level 70-Yb-168  
 Cross Section -18.34 To 3.795 %



MAT 7025 MT= 76 (n,n') Level 70-Yb-168  
 Cross Section -100.0 To 89.81 %

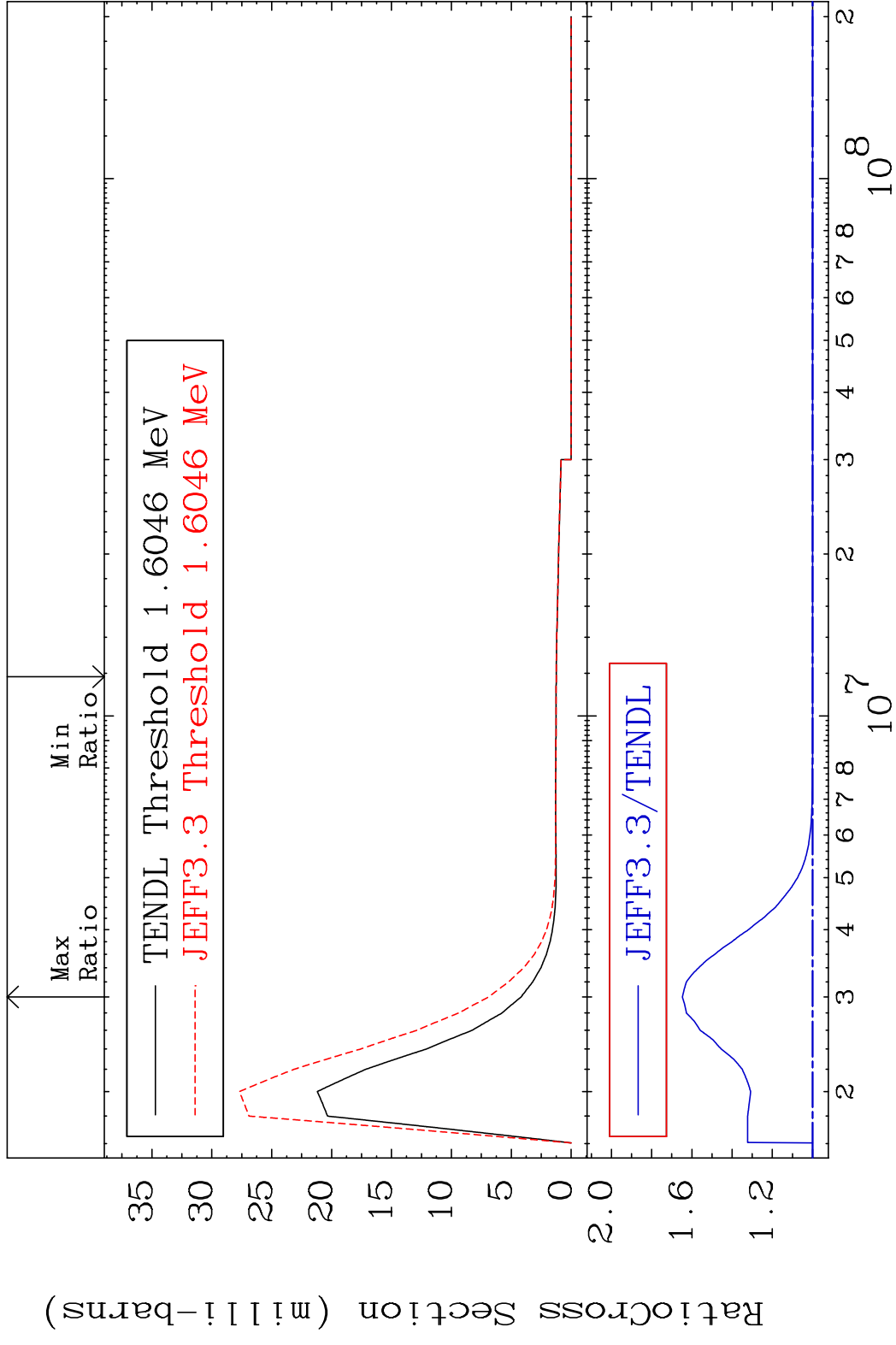


MAT 7025 MT= 77 (n,n') Level 70-Yb-168  
 Cross Section -100.0 To 91.39 %

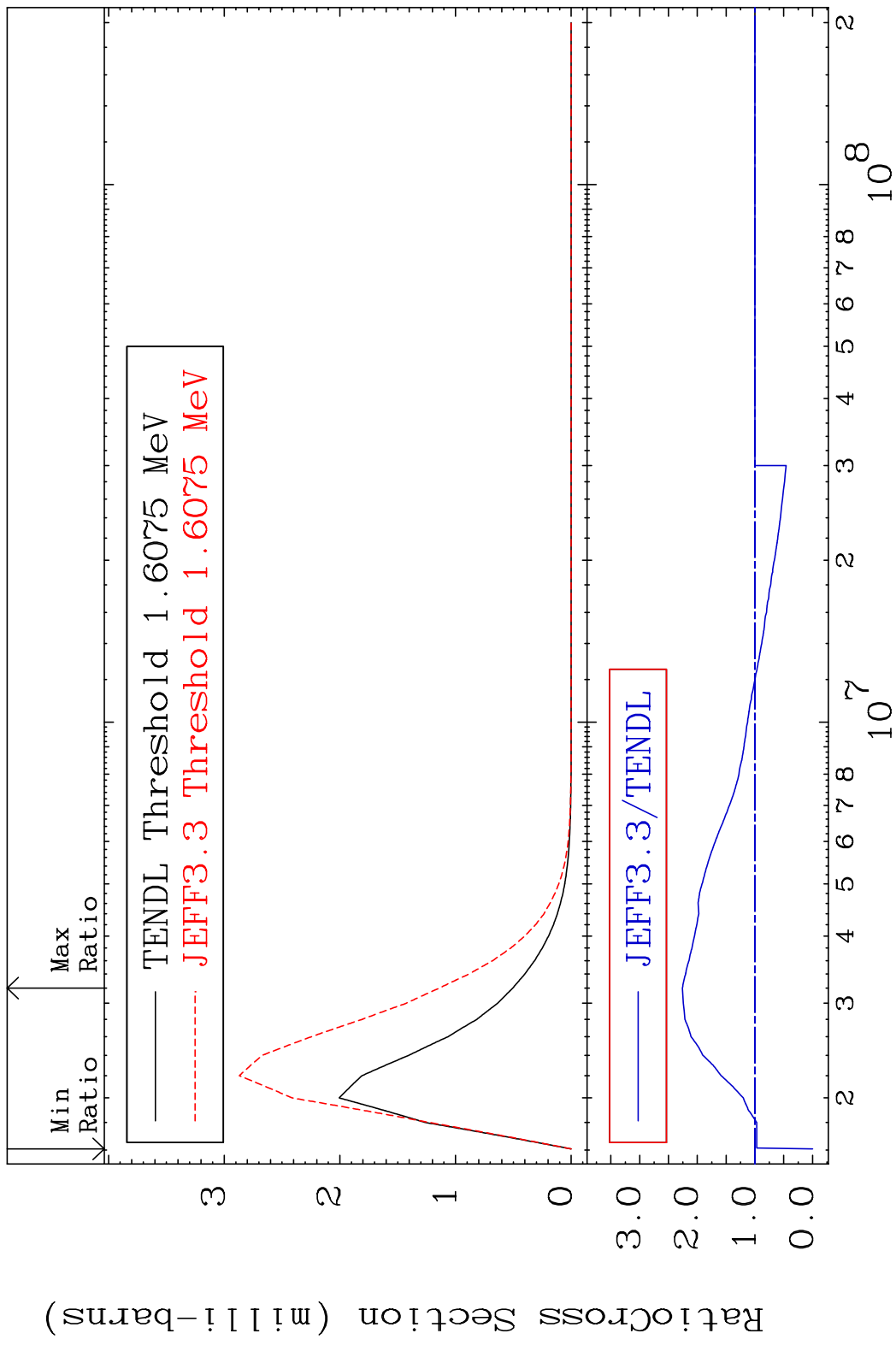




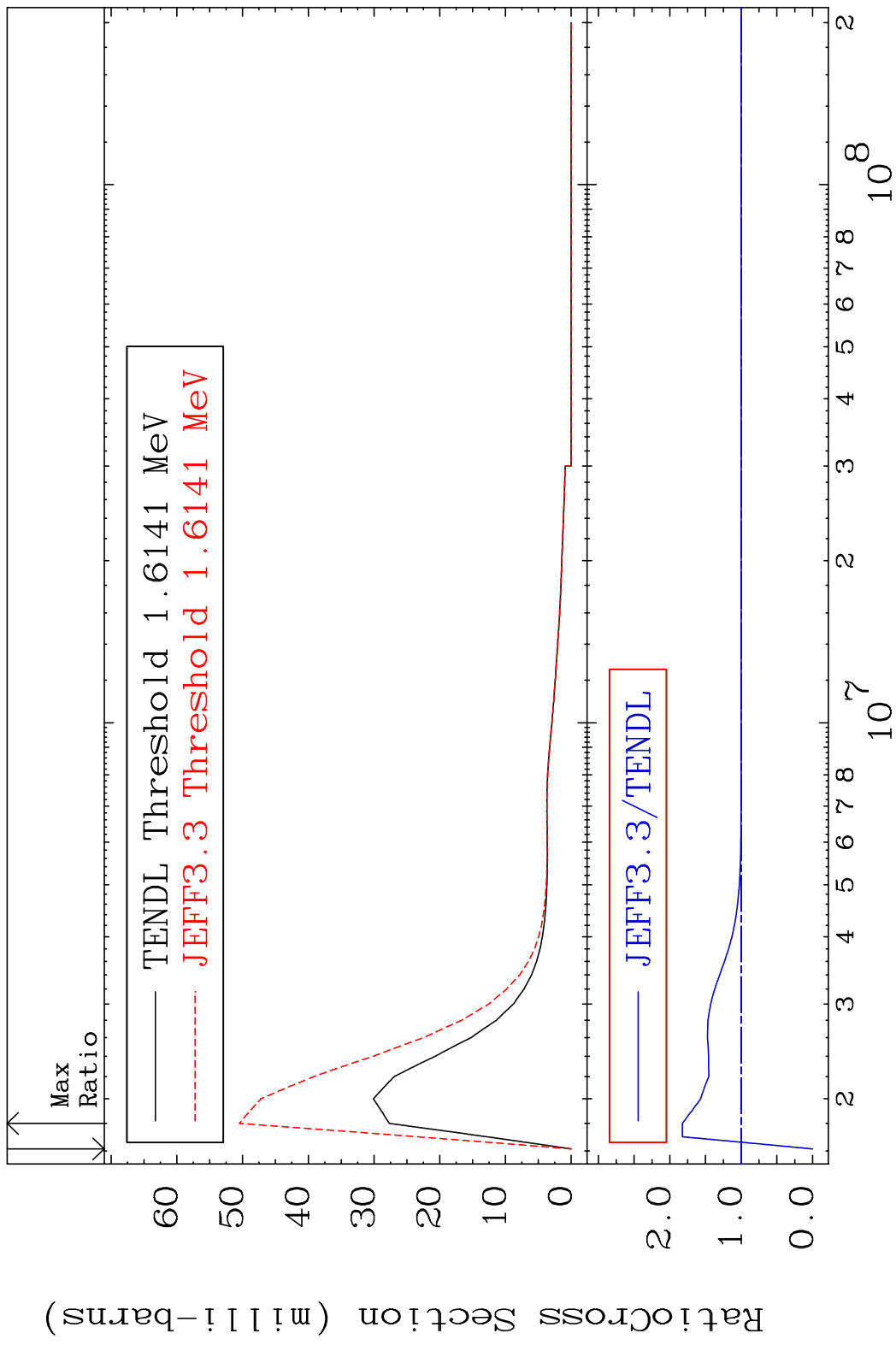
MAT 7025 MT= 78 (n,n') Level 70-Yb-168  
 Cross Section 0.000 To 64.73 %



MAT 7025 MT= 79 (n, n') Level 70-Yb-168  
 Cross Section -100.0 To 125.9 %

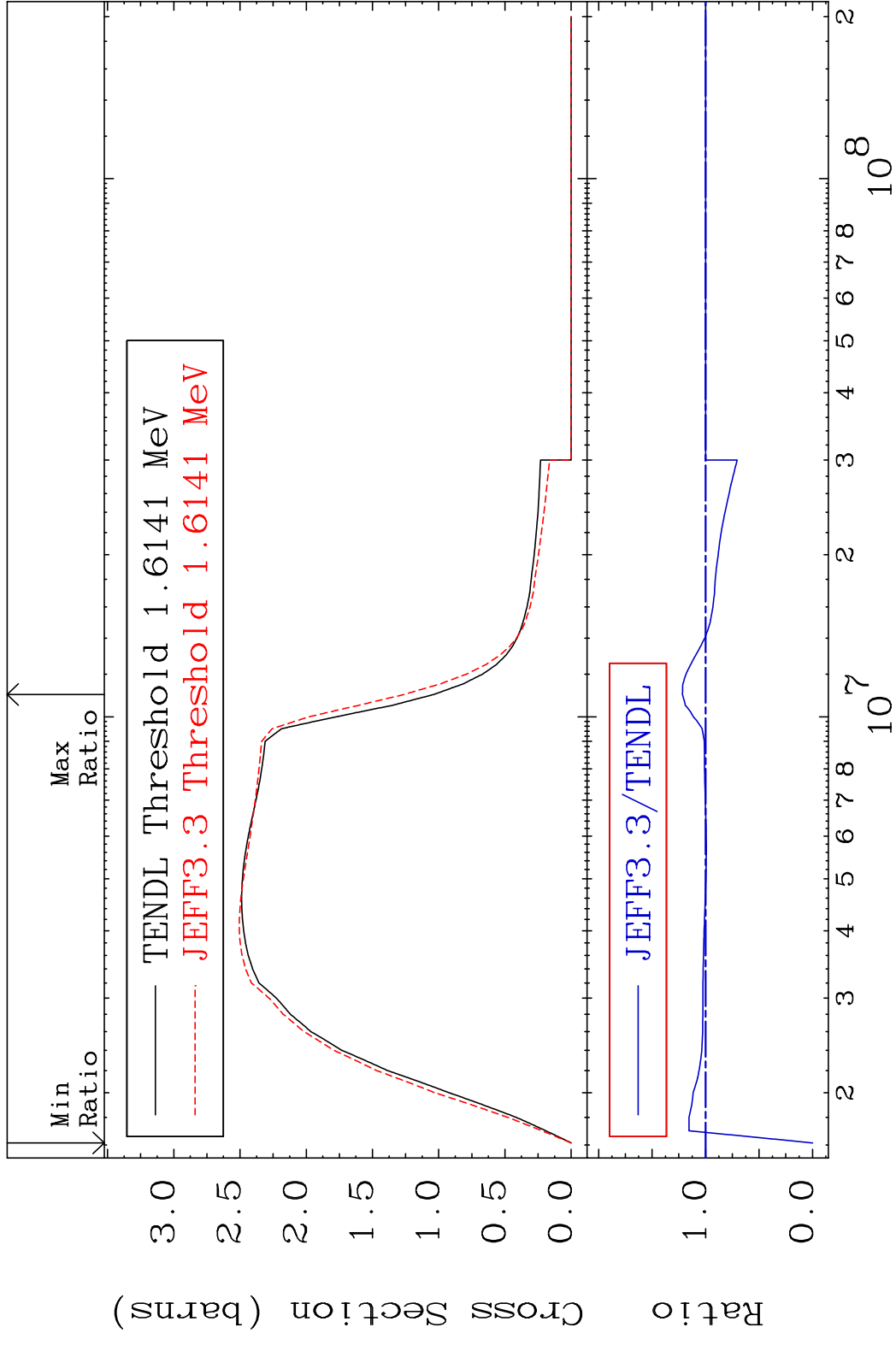


MAT 7025 MT= 80 (n, n') Level 70-Yb-168  
 Cross Section -100.0 To 82.43 %



50 70-Yb-168

MAT 7025 (n, n') Continuum 70-Yb-168  
 Cross Section -100.0 To 21.70 %

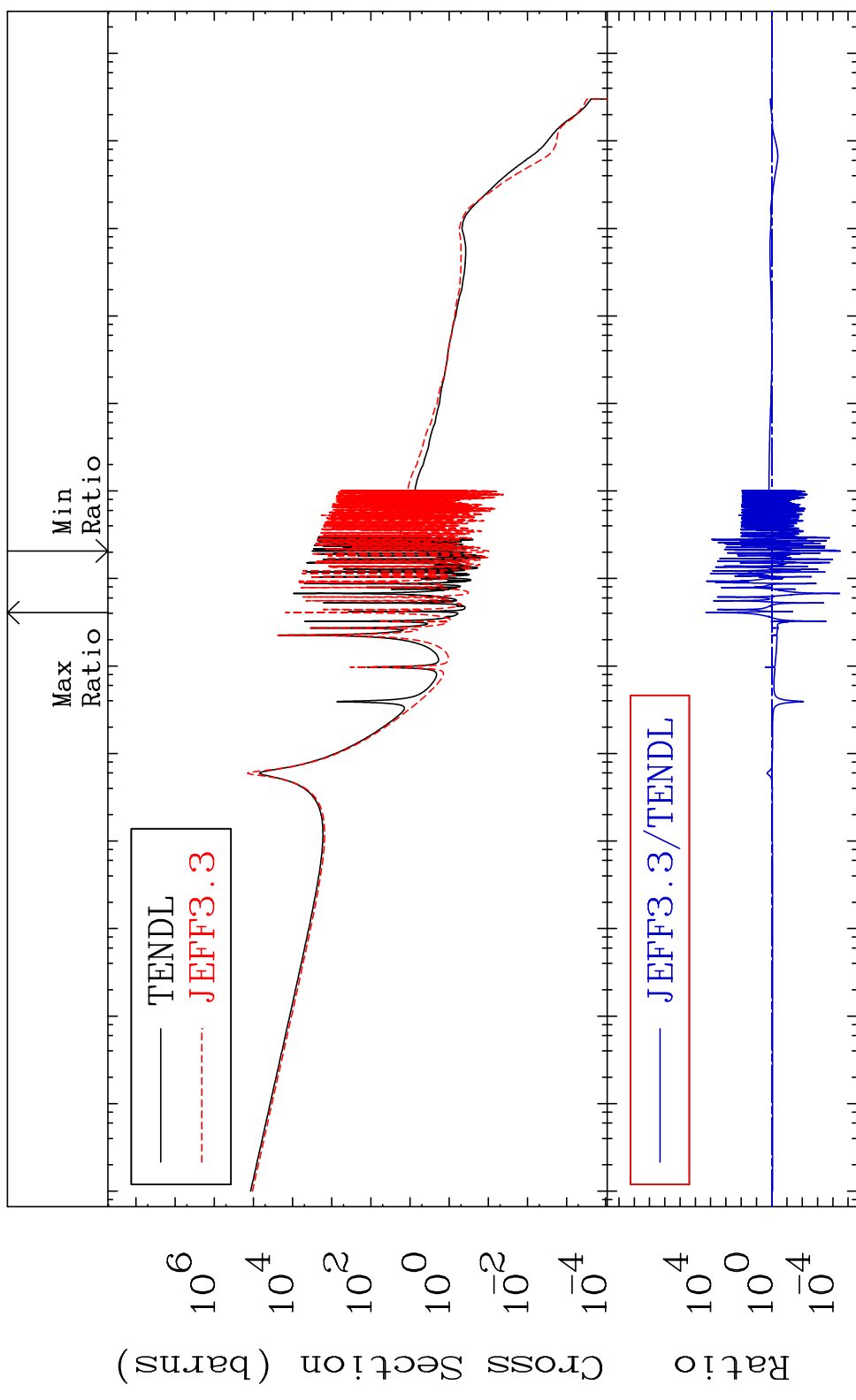


MAT 7025

70-Yb-168

(n,  $\gamma$ )

Cross Section -100.0 To 9999. %



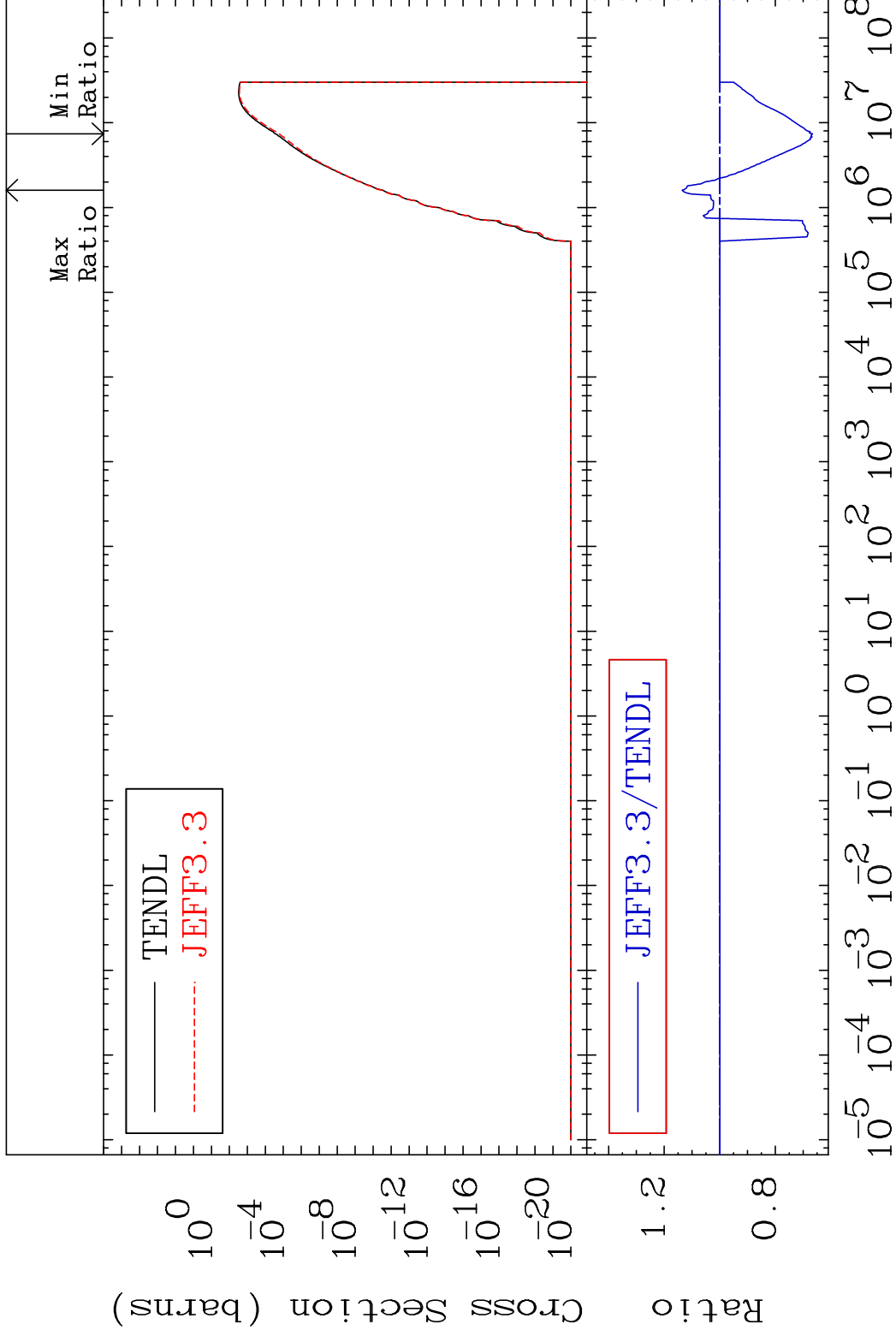
MAT 7025

(n, p)

70-Yb-168

Cross Section

-33.38 To 13.53 %

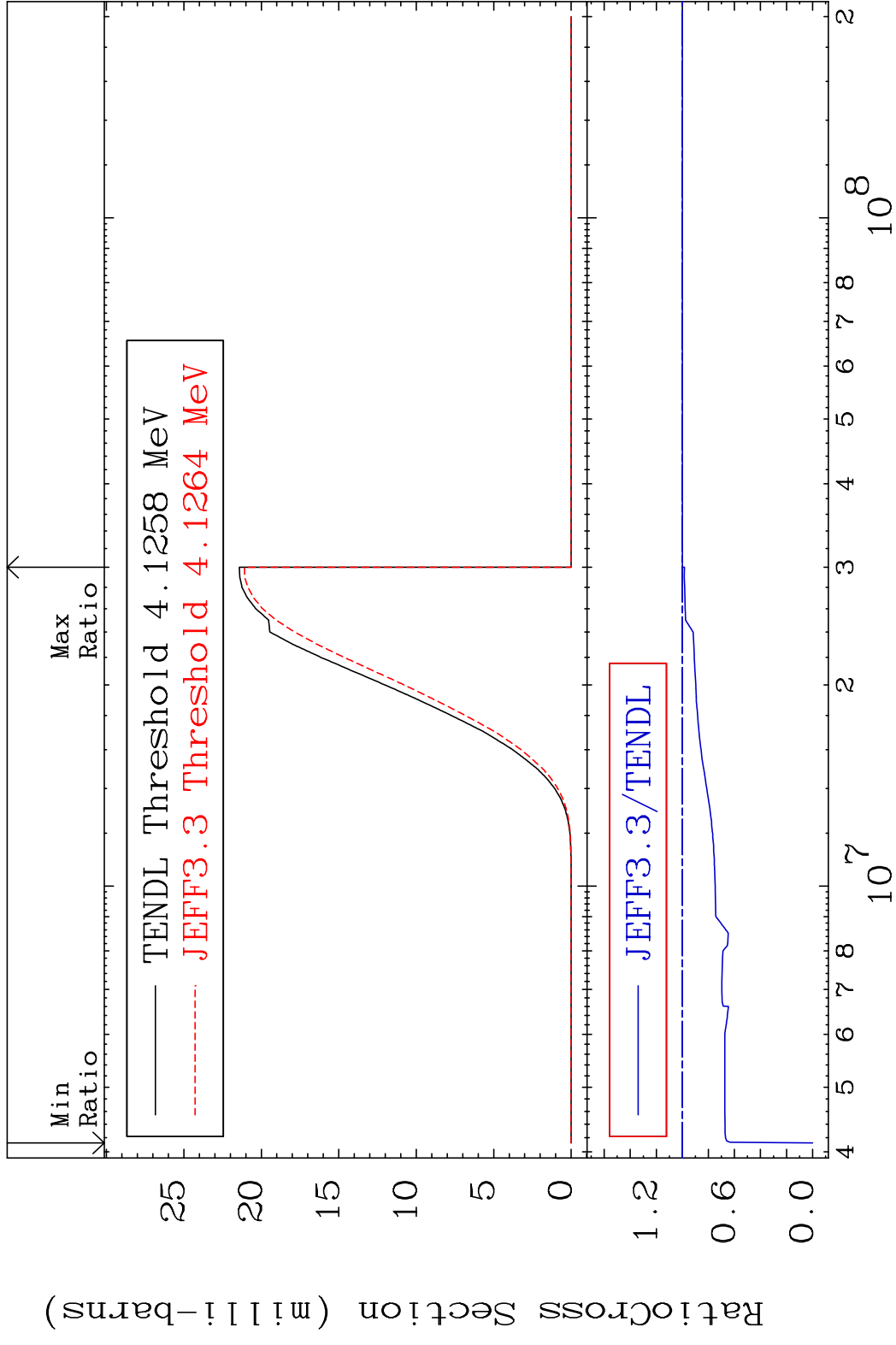


53

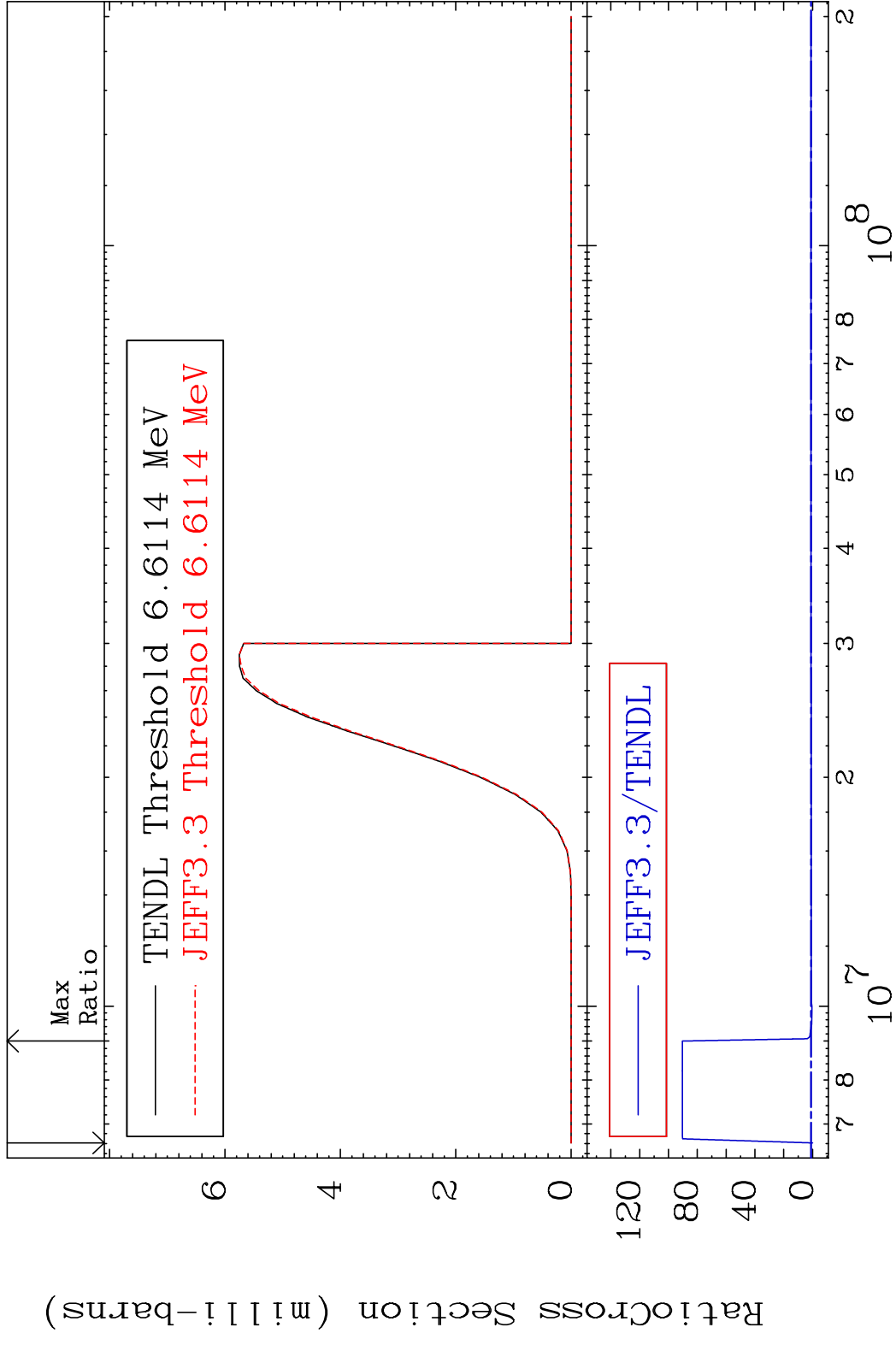
Incident Energy (eV)

70-Yb-168

MAT 7025 (n,d) 70-Yb-168  
 Cross Section -100.0 To 0.000 %



MAT 7025 (n, t) 70-Yb-168  
 Cross Section -100.0 To 8938. %



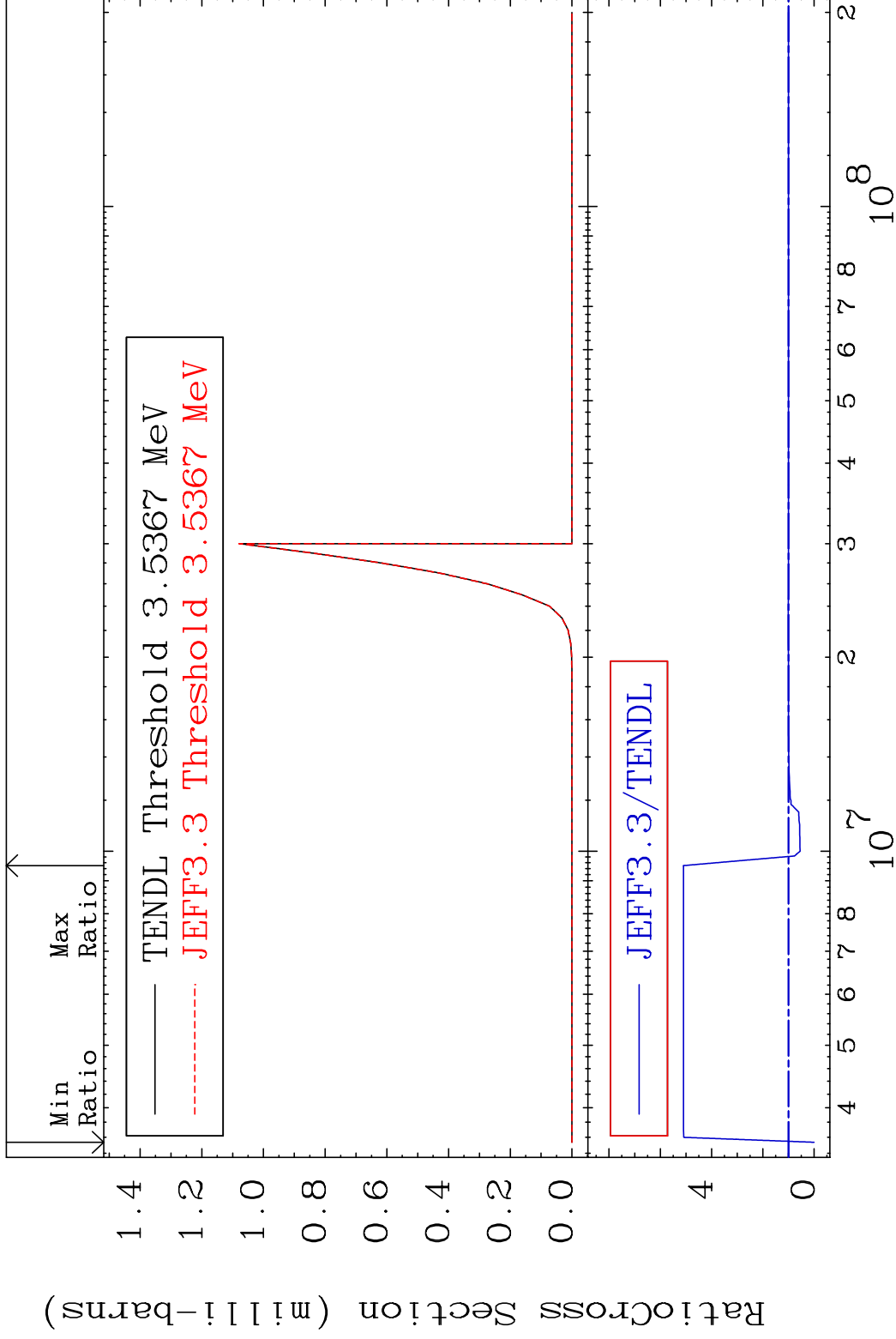


MAT 7025

(n, He-3)

70-Yb-168

Cross Section -100.0 To 409.6 %



56

Incident Energy (eV)

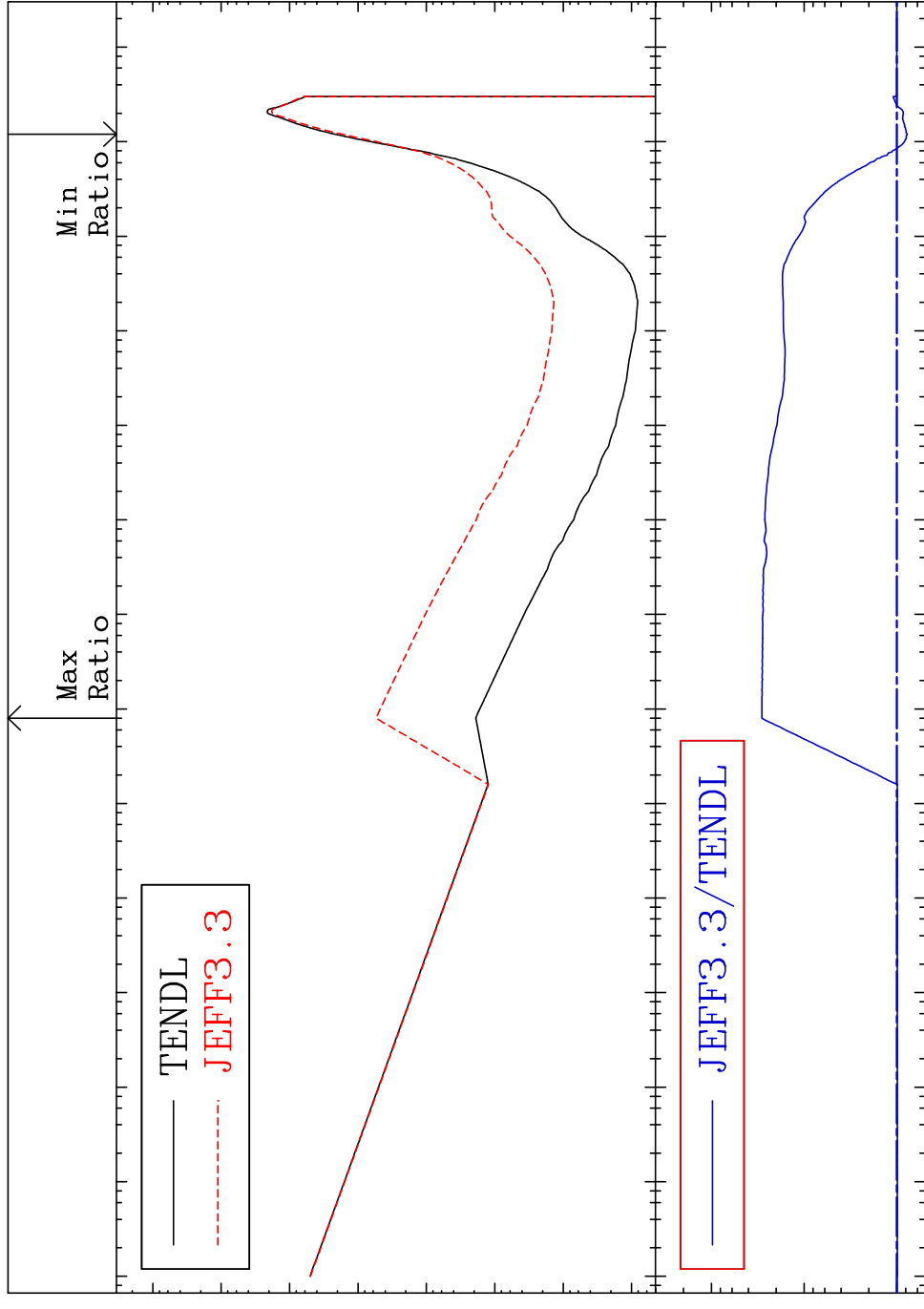
70-Yb-168

MAT 7025

70-Yb-168

(n,  $\alpha$ )

Cross Section -22.79 To 2757. %



Cross Section (barns)

Ratio

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>

57

Incident Energy (eV)

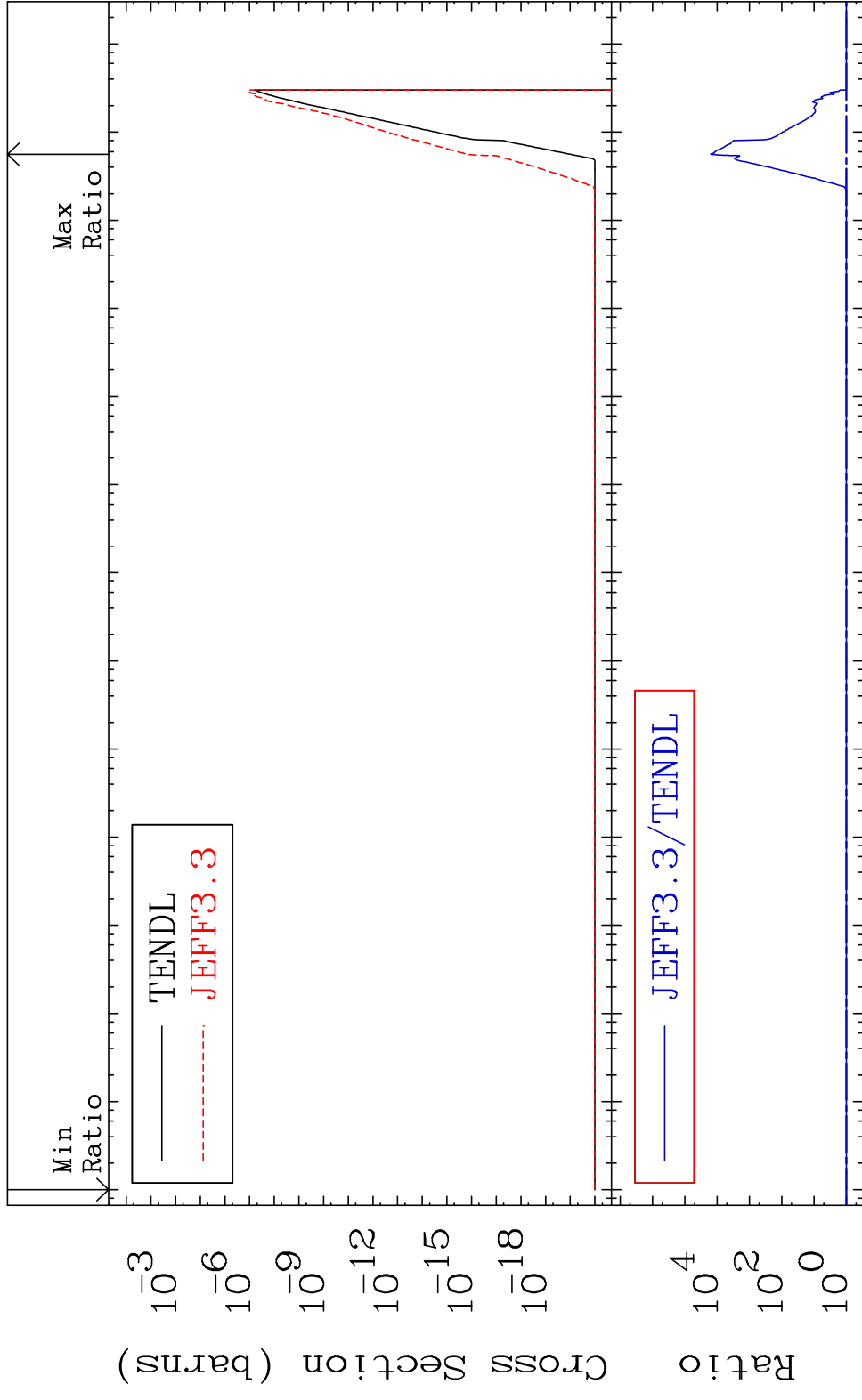
70-Yb-168

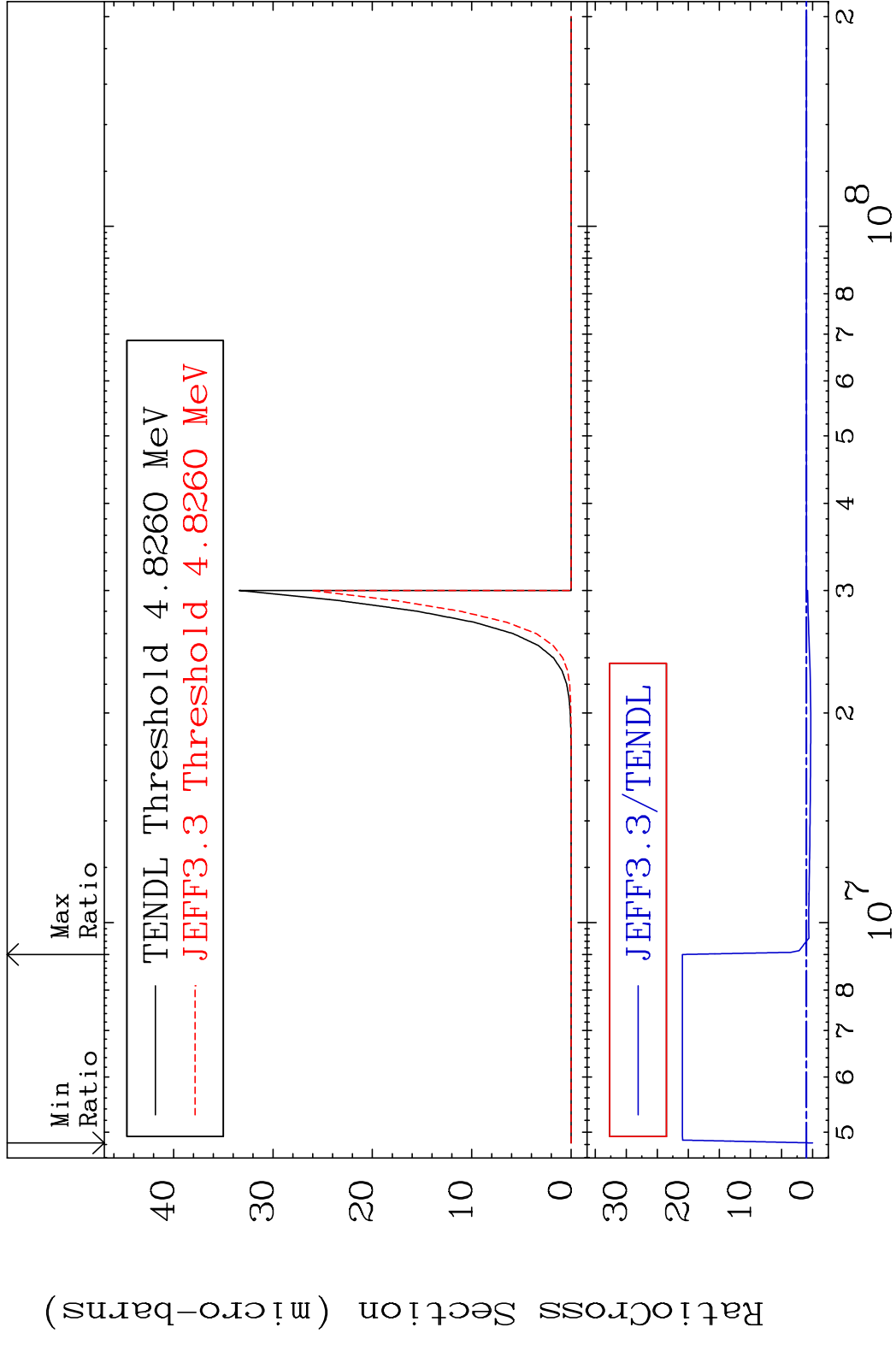
MAT 7025

(n, 2α)

70-Yb-168

Cross Section 0.000 To 9999. %



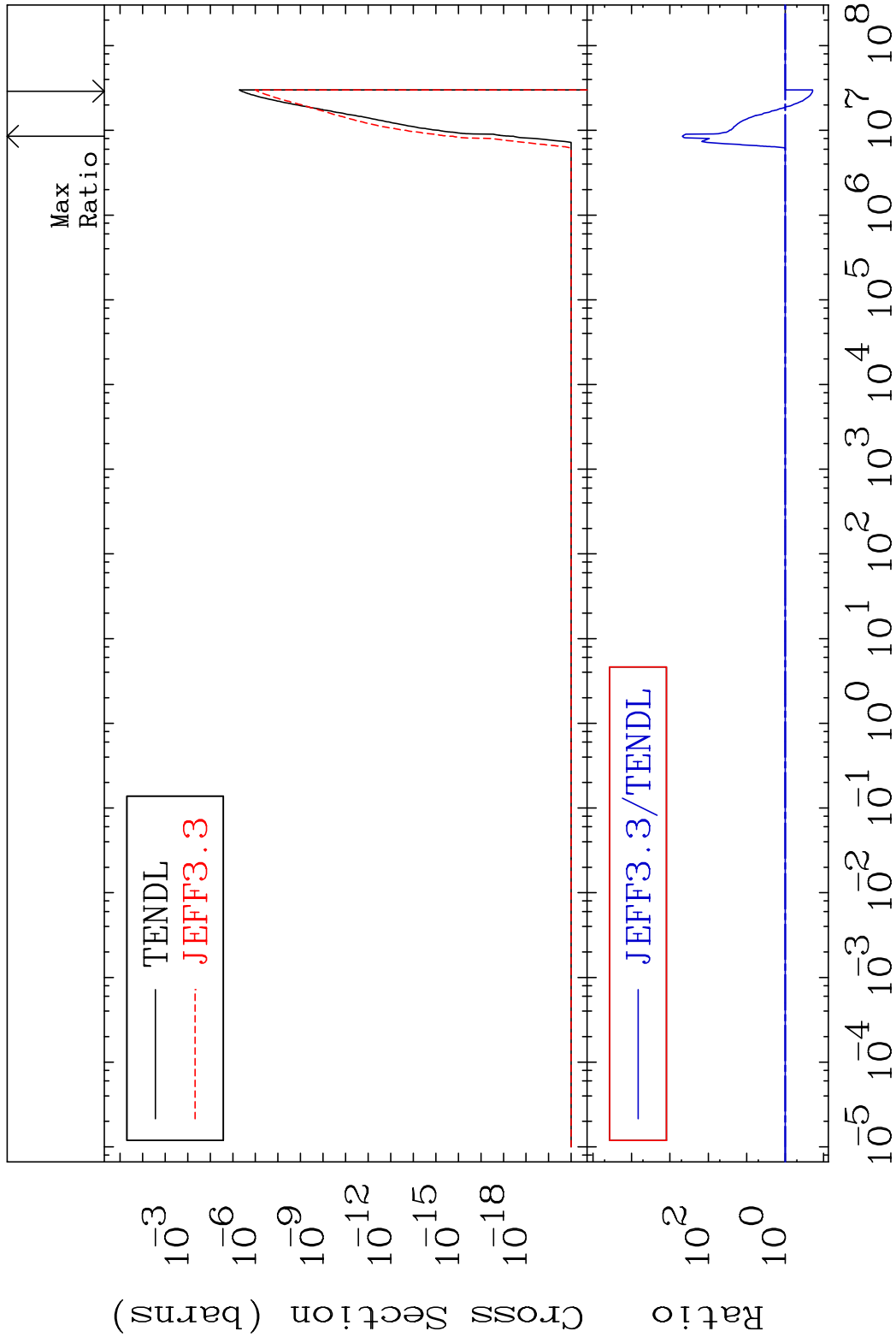


MAT 7025

(n,p)  $\alpha$

70-Yb-168

Cross Section -80.58 To 9999. %



60

Incident Energy (eV)

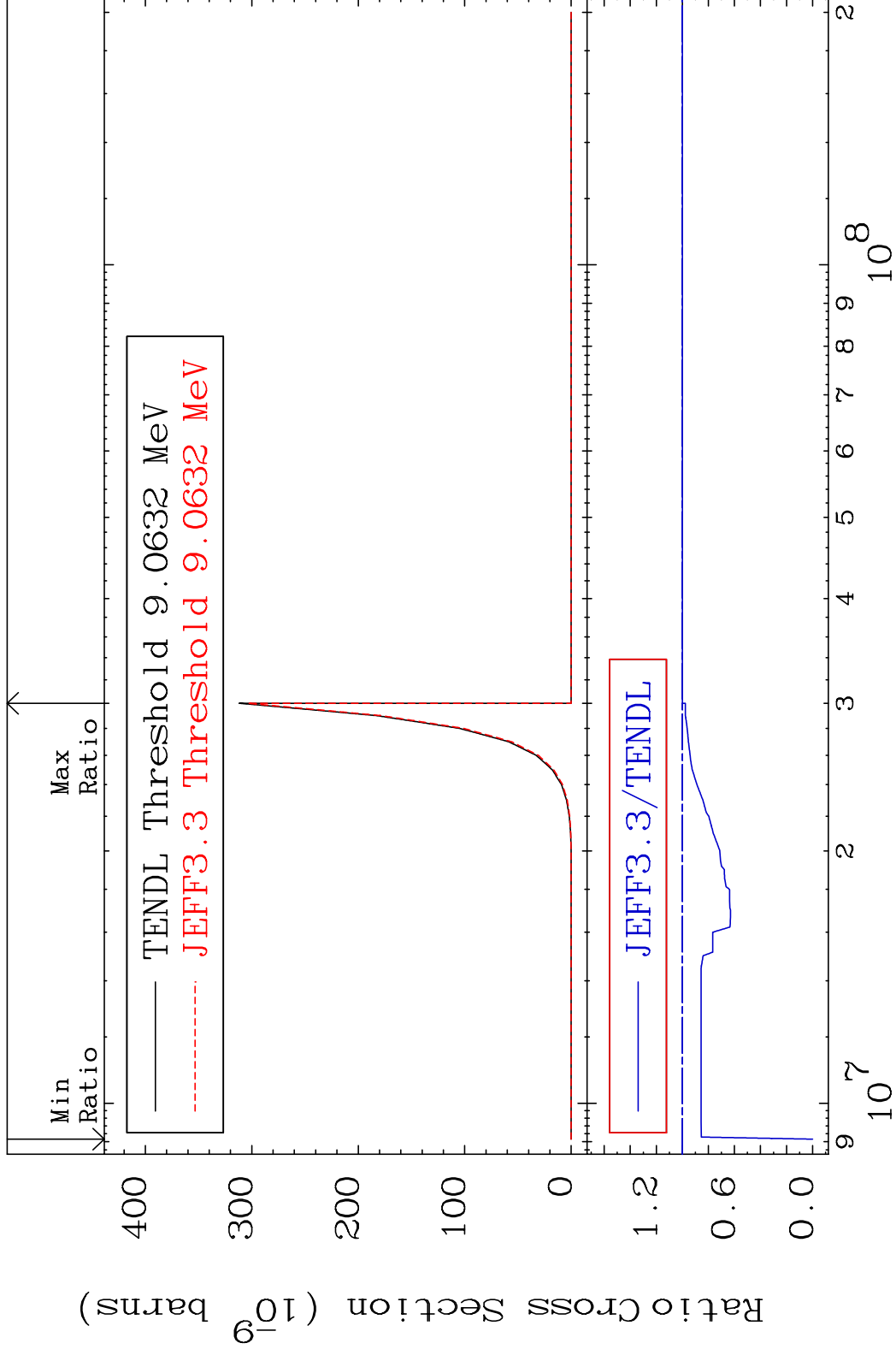
70-Yb-168

MAT 7025

(n,p) d

70-Yb-168

Cross Section -100.0 To 0.000 %

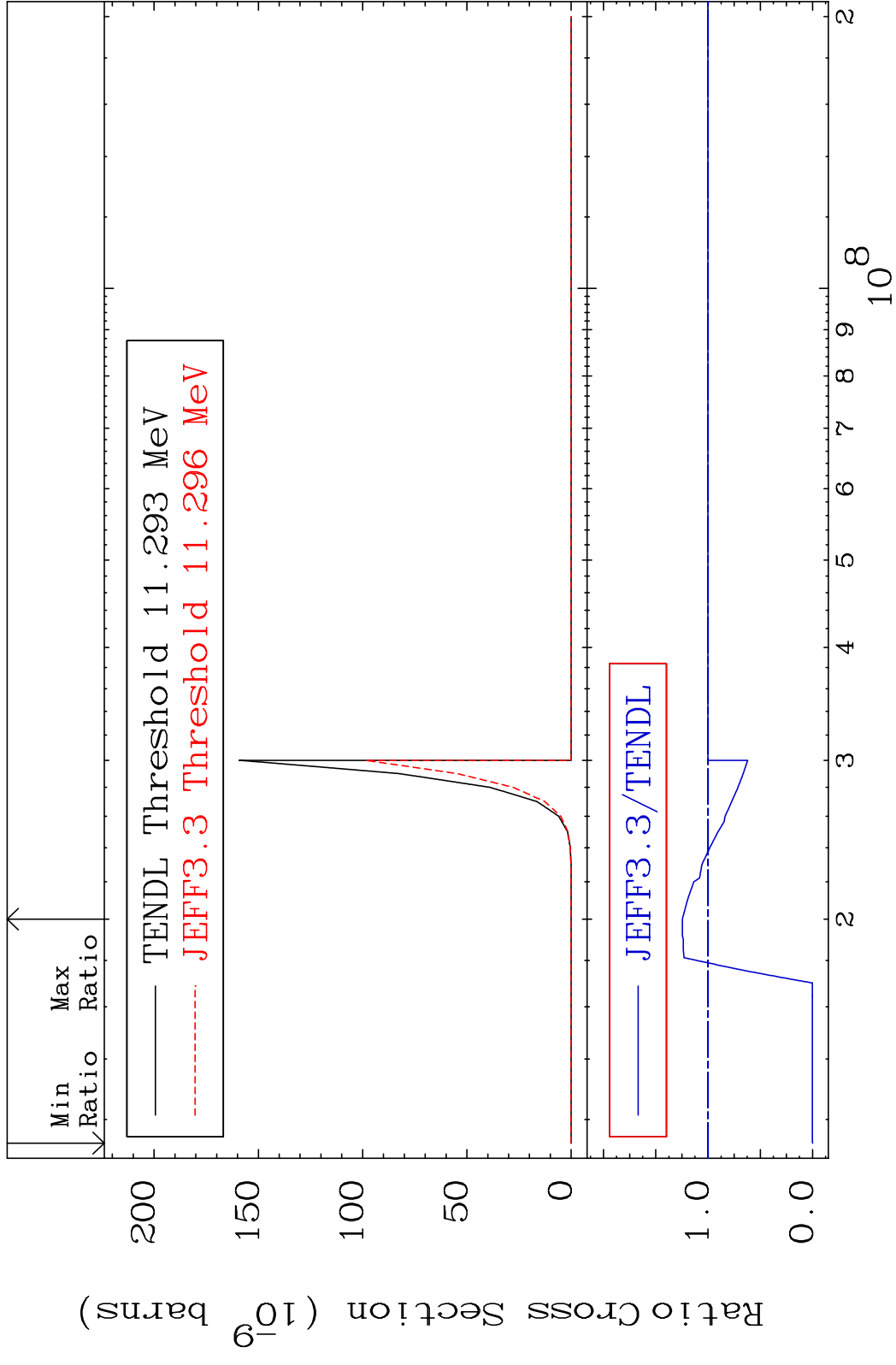


61

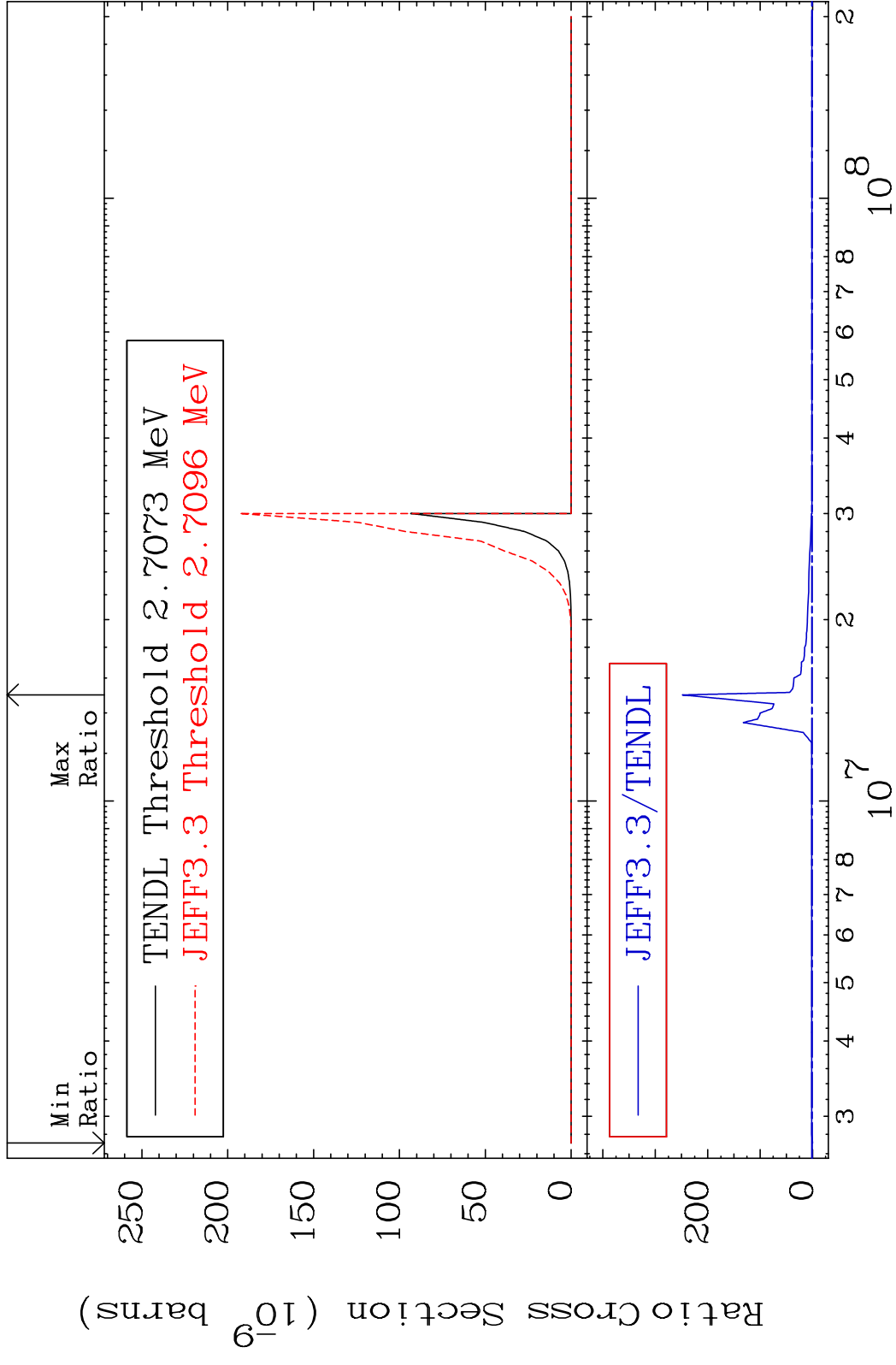
Incident Energy (eV)

70-Yb-168

MAT 7025 (n,p) t 70-Yb-168  
 Cross Section -100.0 To 24.58 %



MAT 7025 (n,d)  $\alpha$  70-Yb-168  
 Cross Section -100.0 To 9999. %





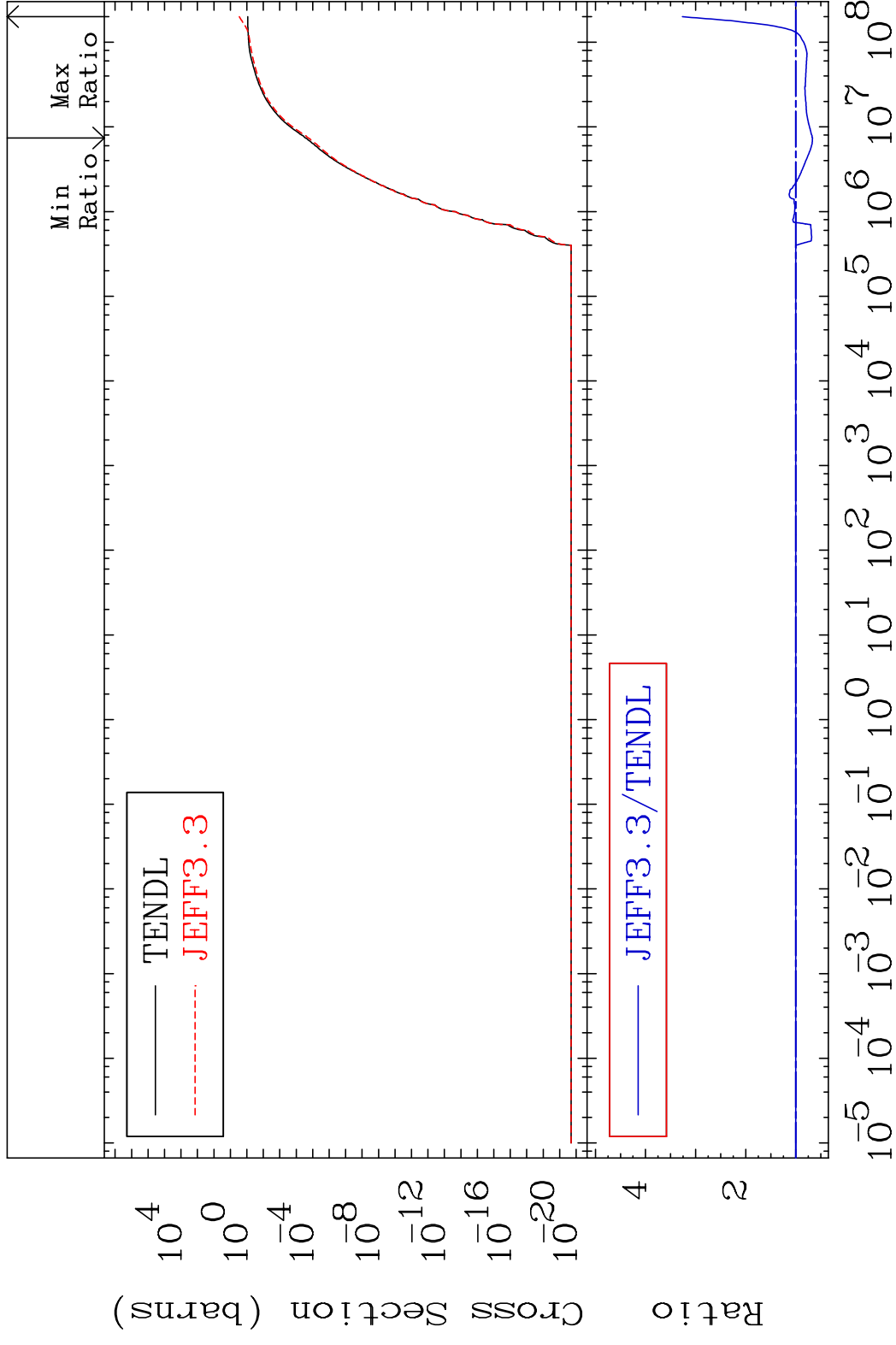
MAT 7025

Hydrogen Production

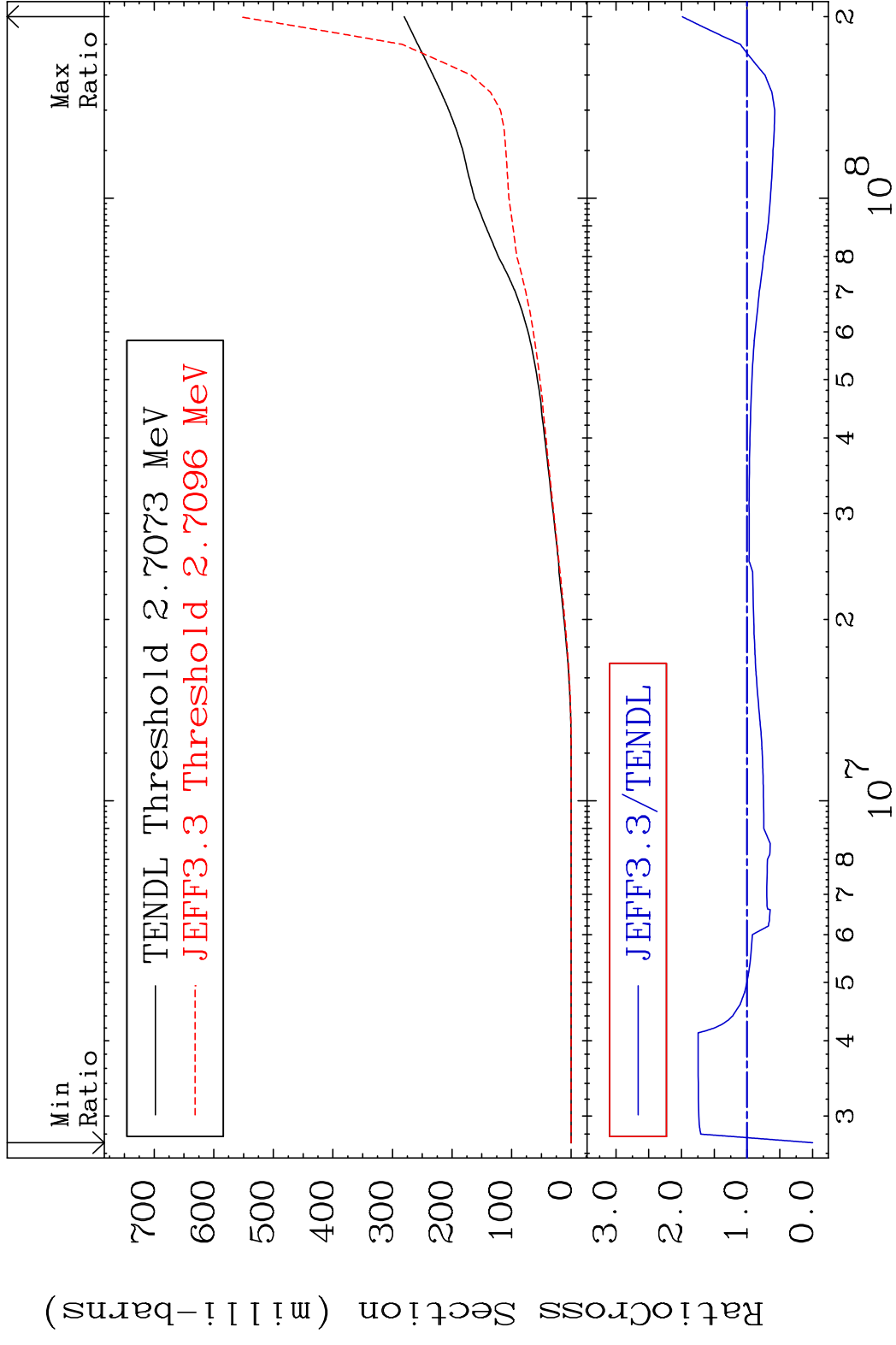
70-Yb-168

Cross Section

-33.38 To 226.5 %

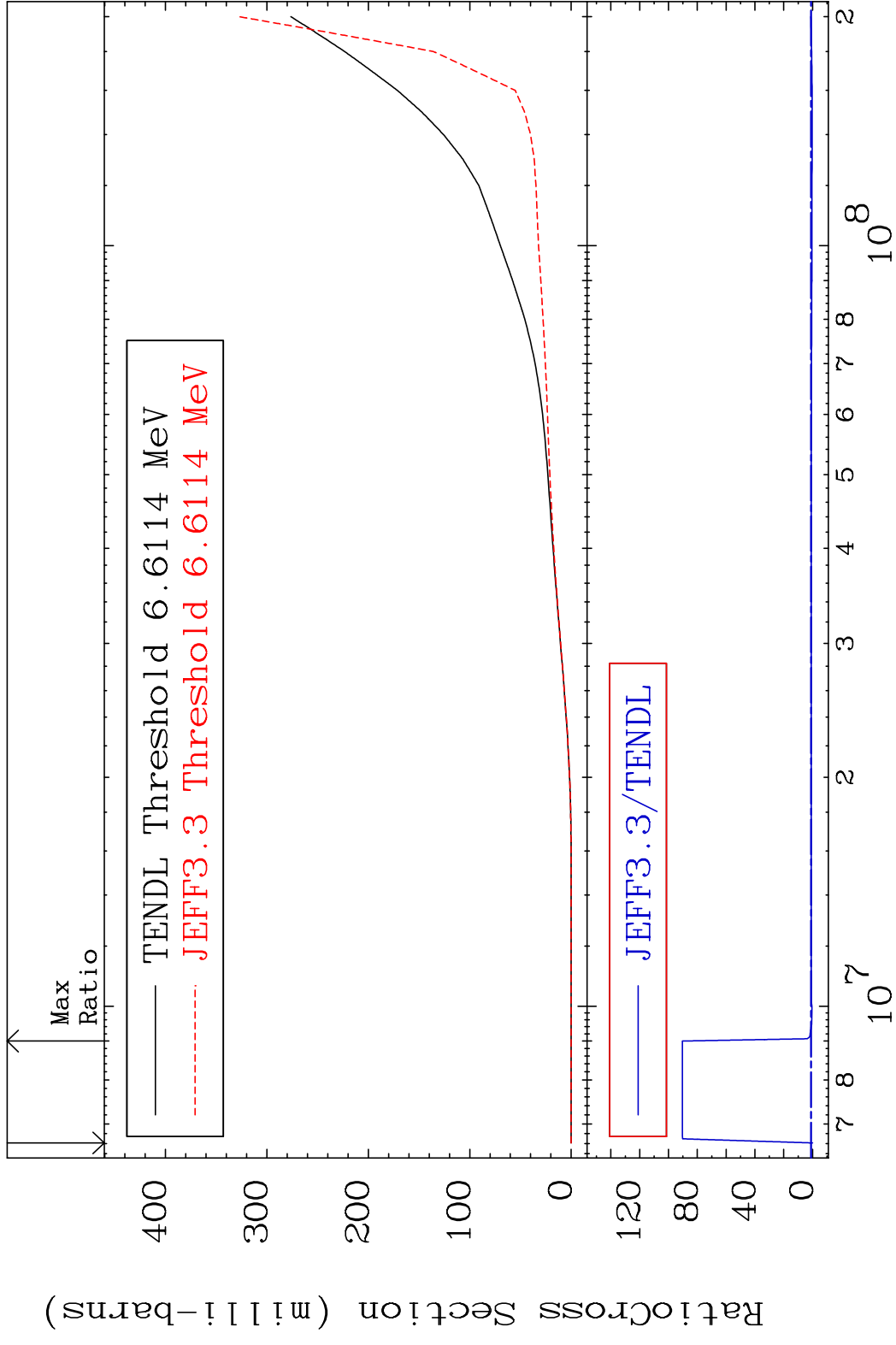


MAT 7025 Deuterium Production 70-Yb-168  
 Cross Section -100.0 To 98.70 %



65 70-Yb-168

MAT 7025 Tritium Production 70-Yb-168  
 Cross Section -100.0 To 8938. %

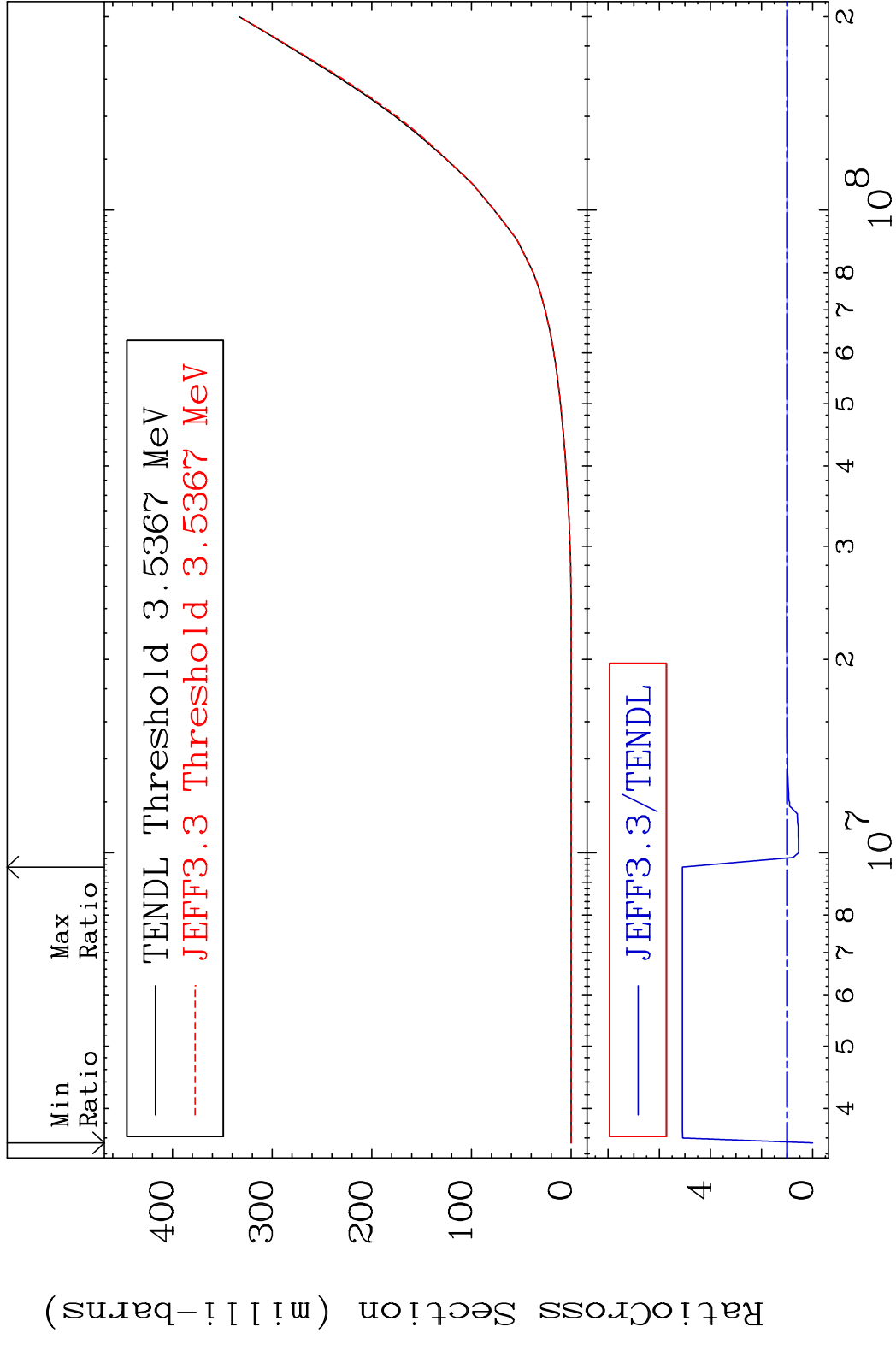


MAT 7025

He-3 Production

70-Yb-168

Cross Section -100.0 To 409.6 %

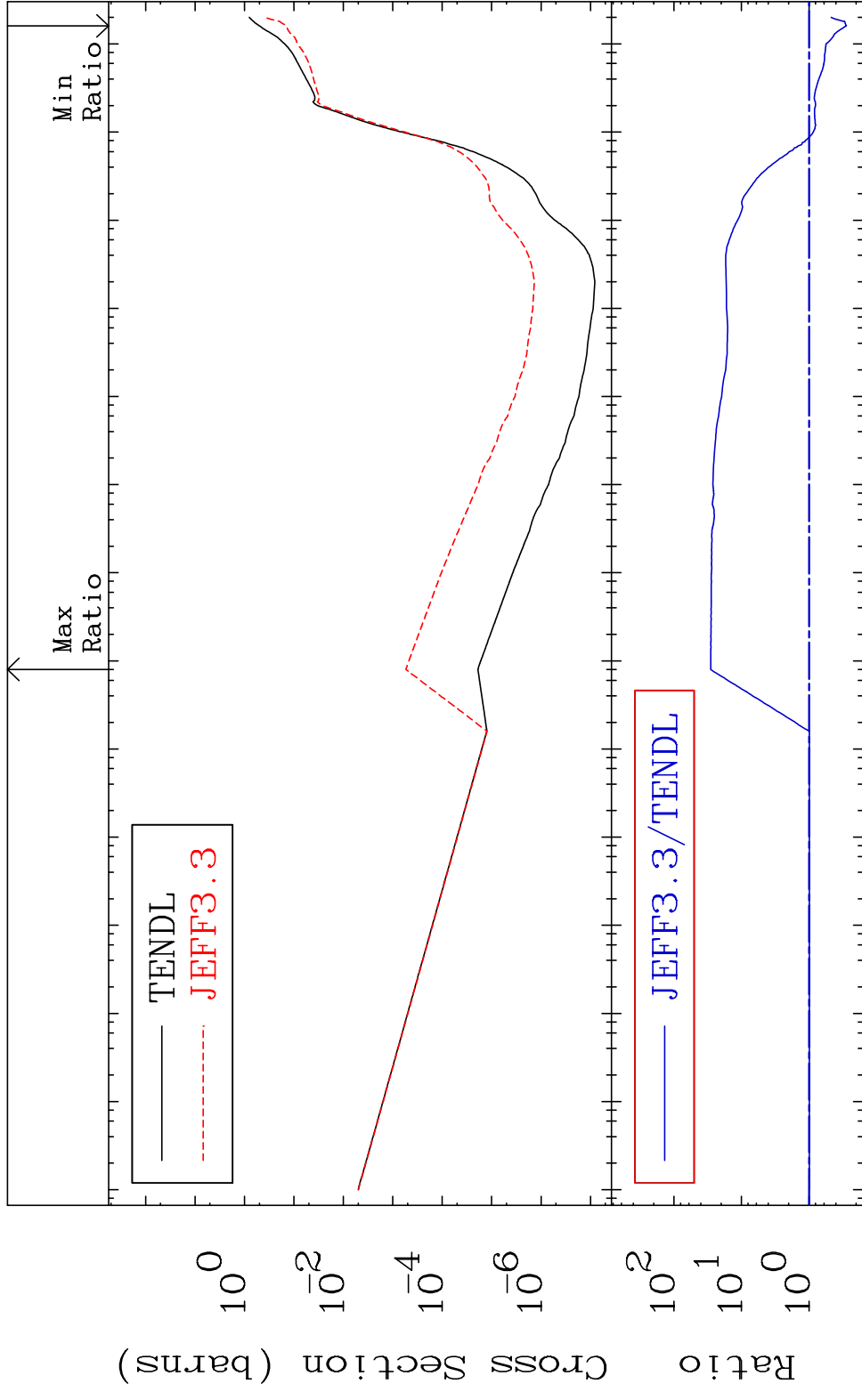


MAT 7025

He-4 Production

70-Yb-168

Cross Section -72.02 To 2757. %

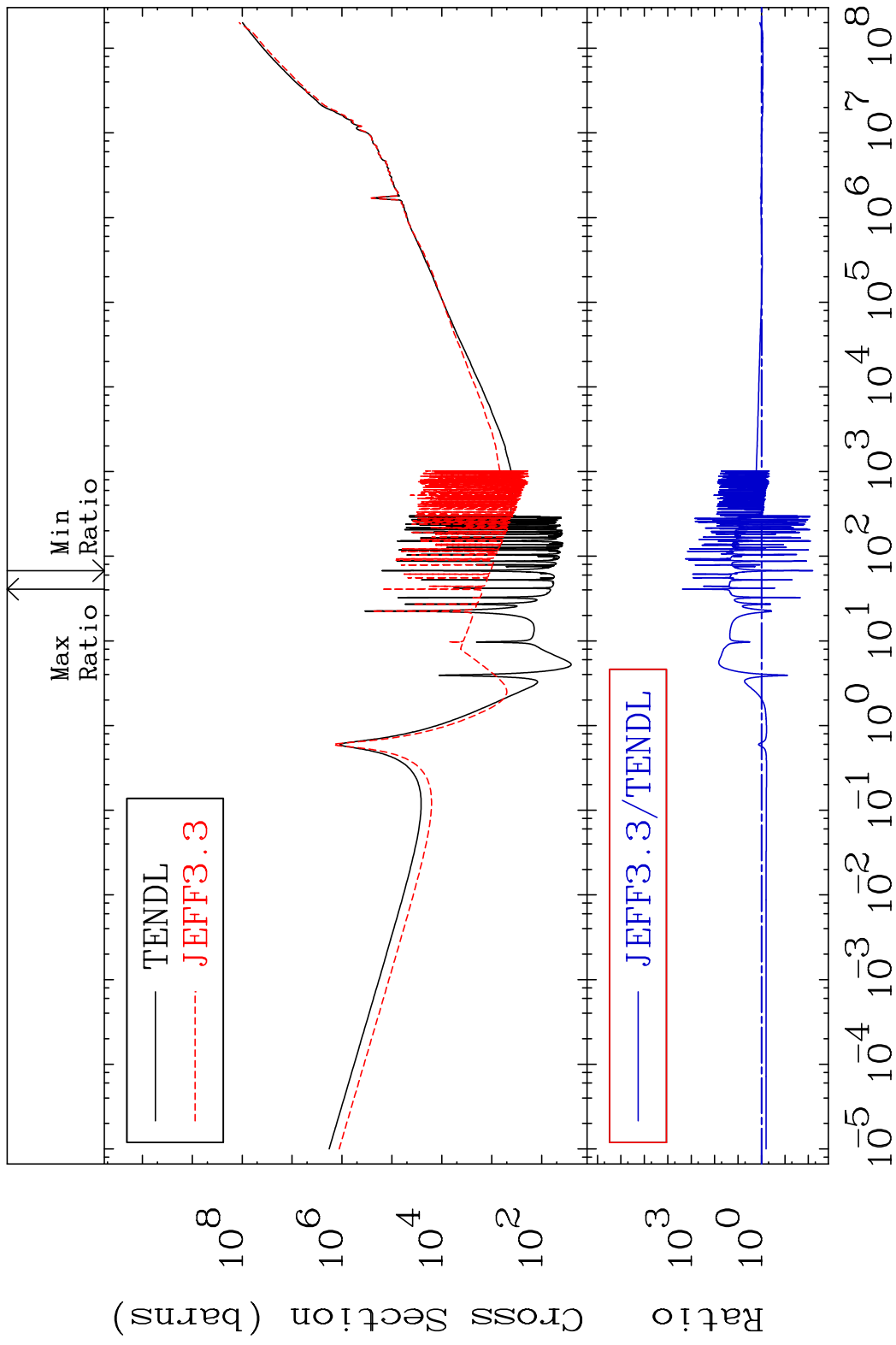


68

Incident Energy (eV)

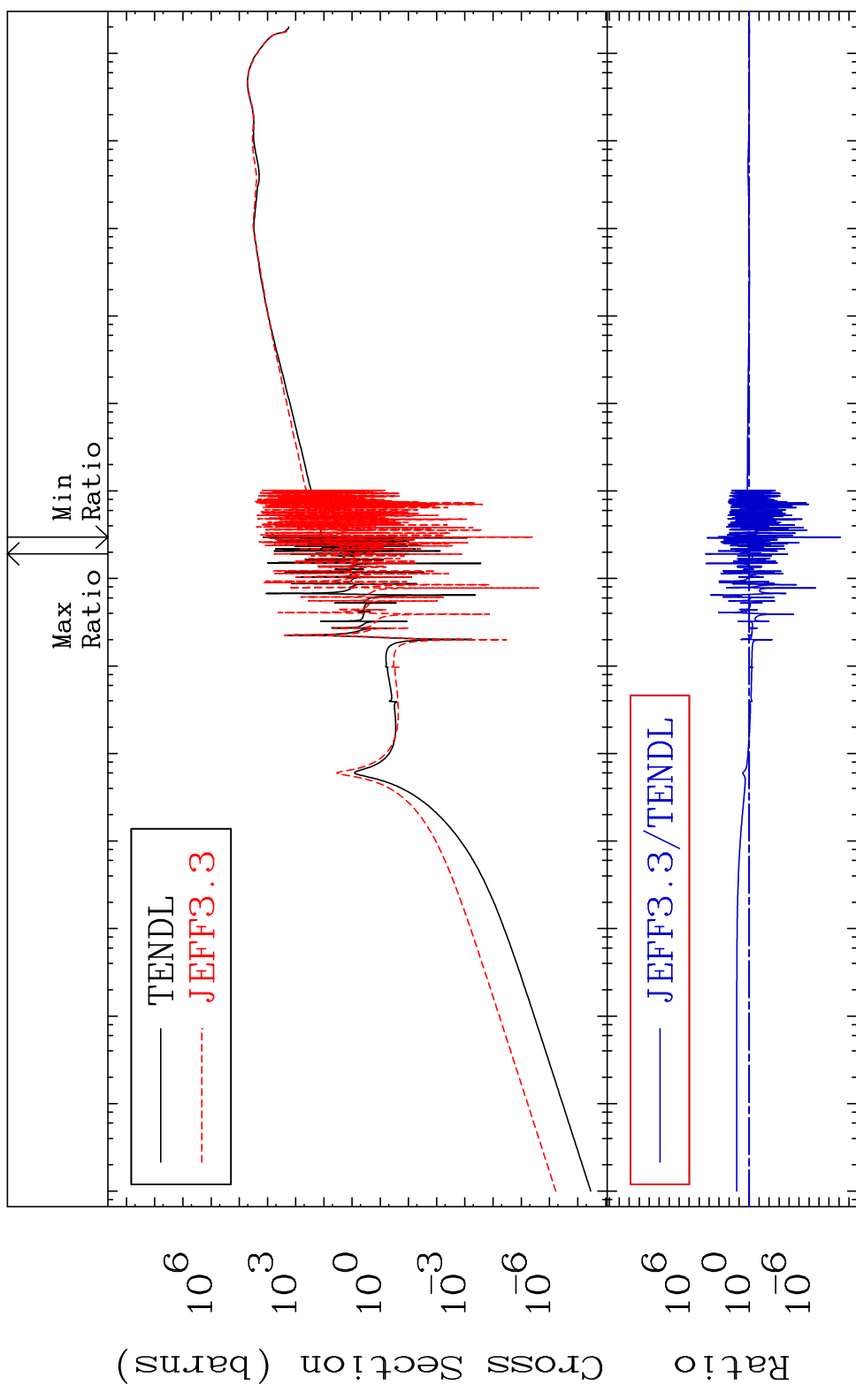
70-Yb-168

MAT 7025 Kerma total (eV-barns) 70-Yb-168  
 Cross Section -99.34 To 9999. %



MAT 7025

Kerma elastic Cross Section -100.0 To 9999. %  
70-Yb-168

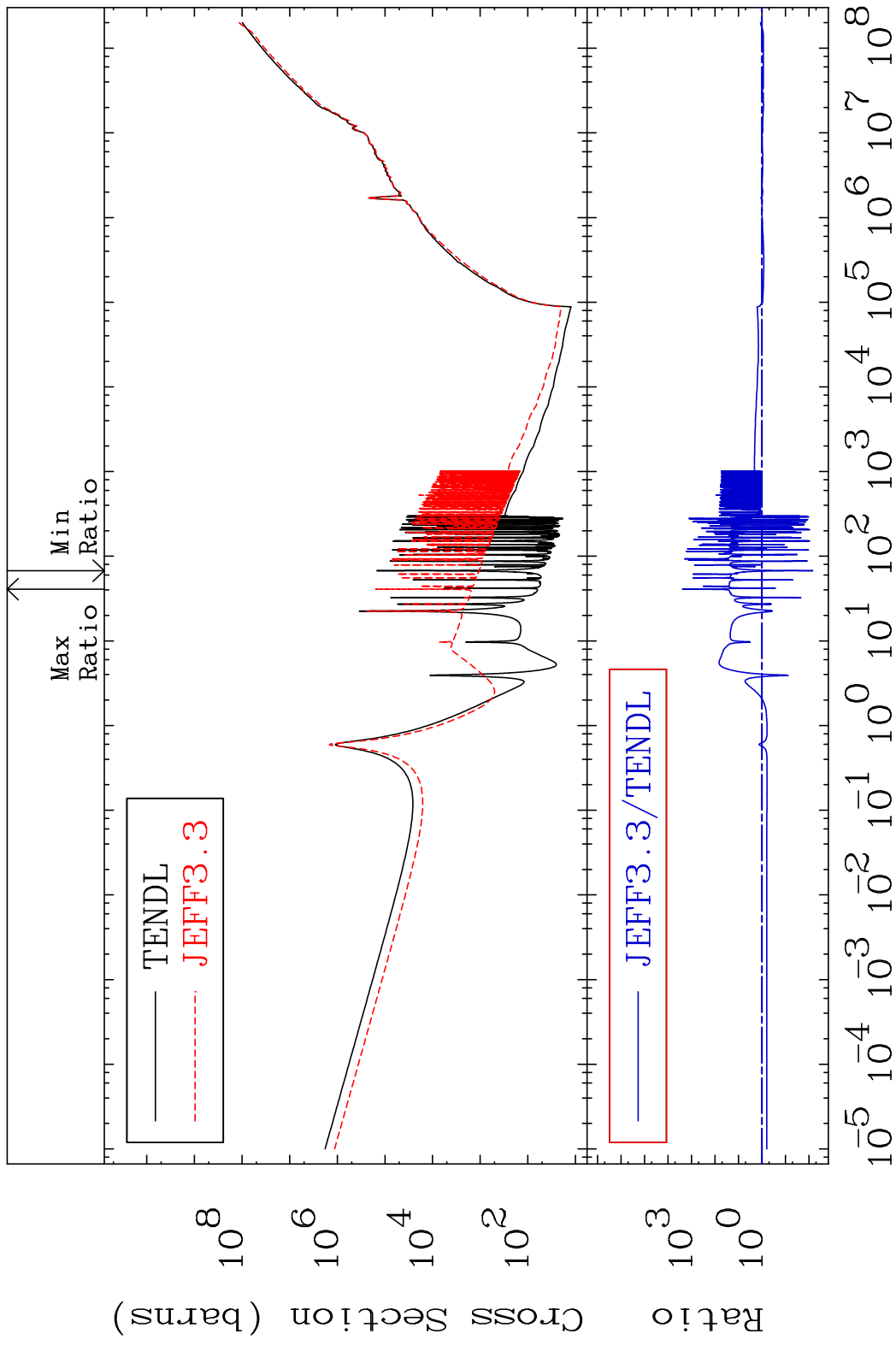


70

Incident Energy (eV)

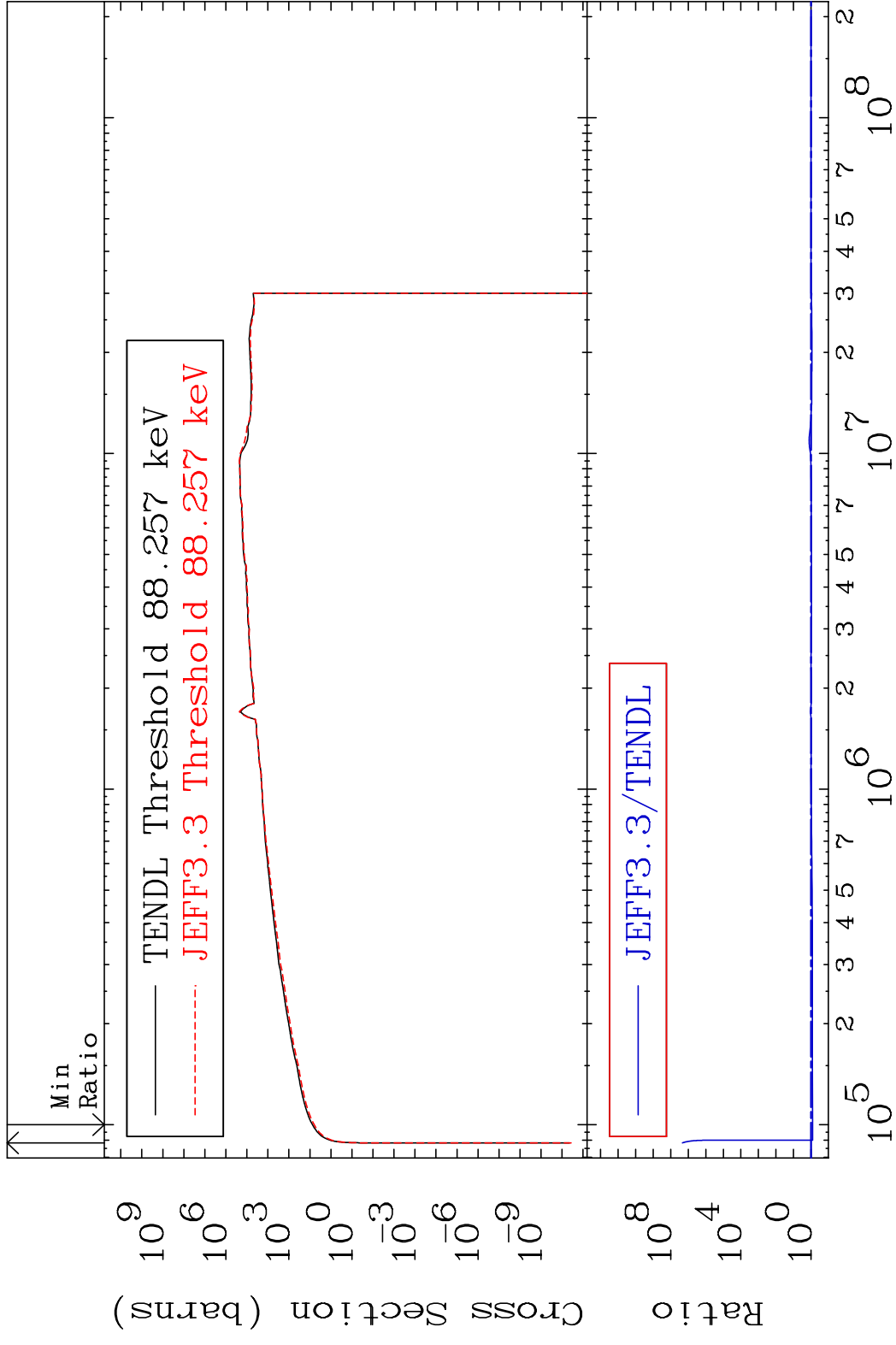
70-Yb-168

MAT 7025 Kerma non-elastic (all but mt2) 70-Yb-168  
 Cross Section -99.29 To 9999. %

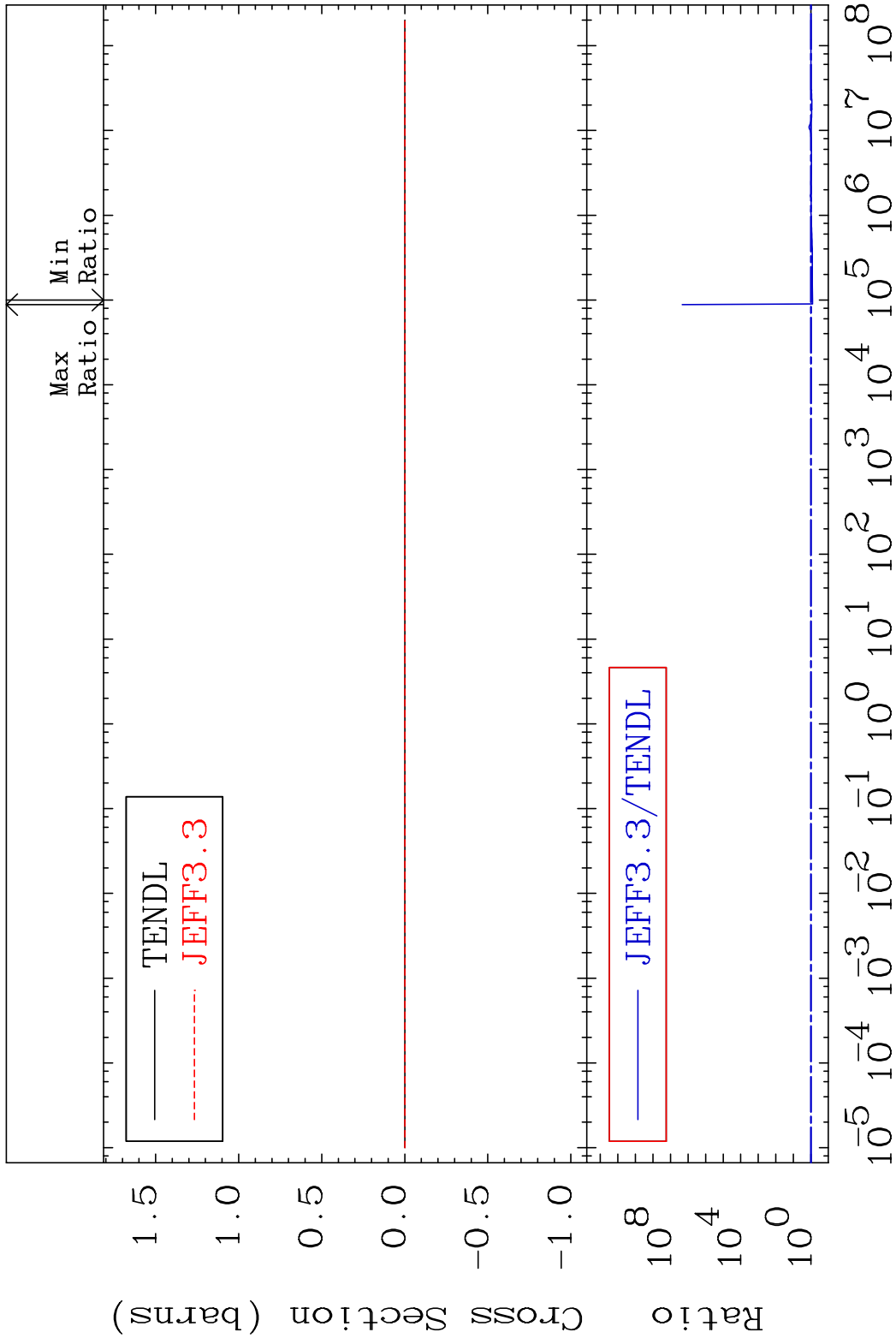




MAT 7025 Kerma inelastic (mt51-91) 70-Yb-168  
 Cross Section -17.47 To 9999. %



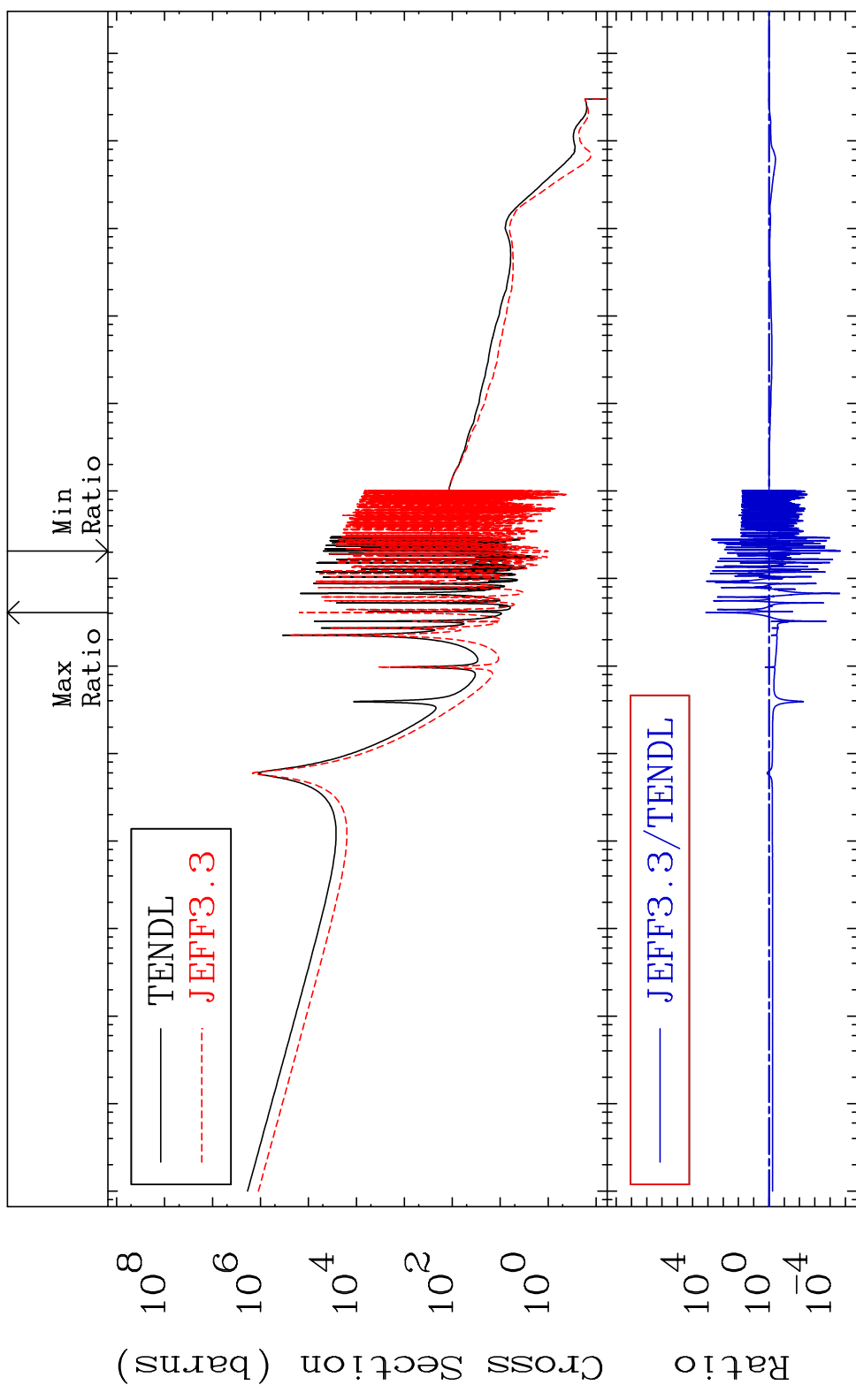
MAT 7025 Kerma fission (mt18 or mt19-20-21-38) 70-Yb-168  
 Cross Section -17.47 To 9999. %



MAT 7025

Kerma capture (mt102) 70-Yb-168

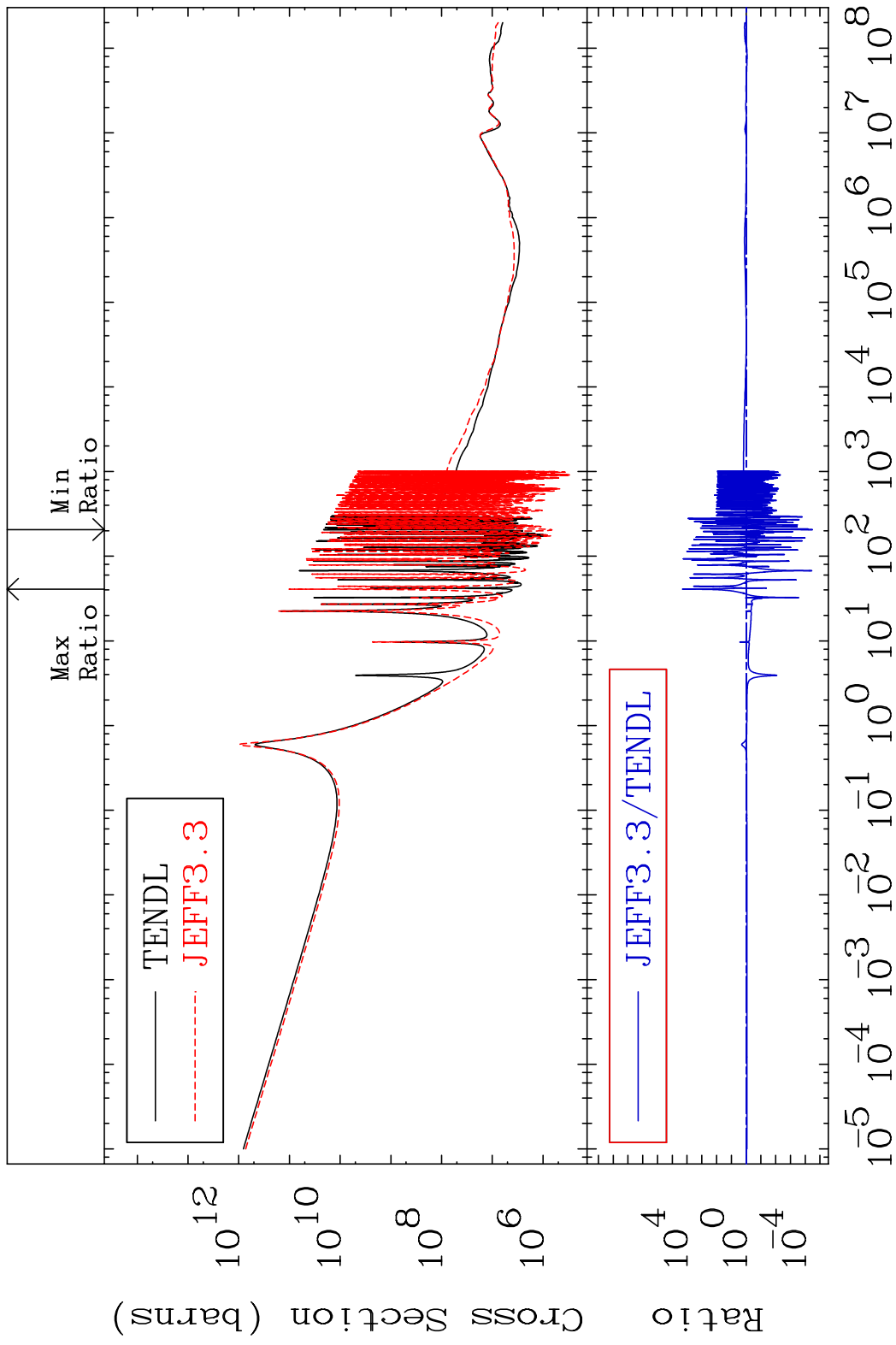
Cross Section -100.0 To 9999. %



74

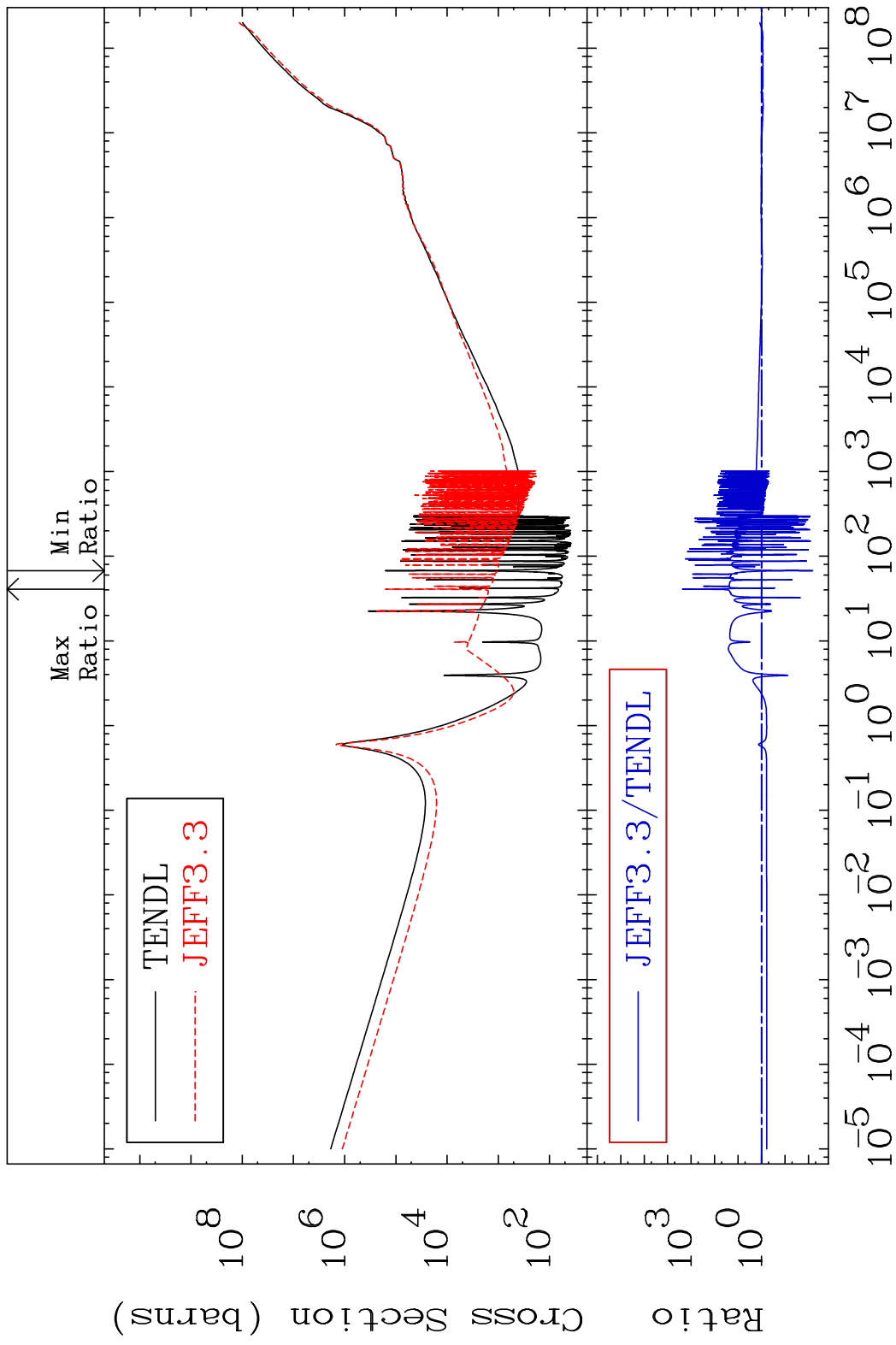
Incident Energy (eV) 70-Yb-168

MAT 7025 Total photon (eV-barns) 70-Yb-168  
Cross Section -100.0 To 9999. %

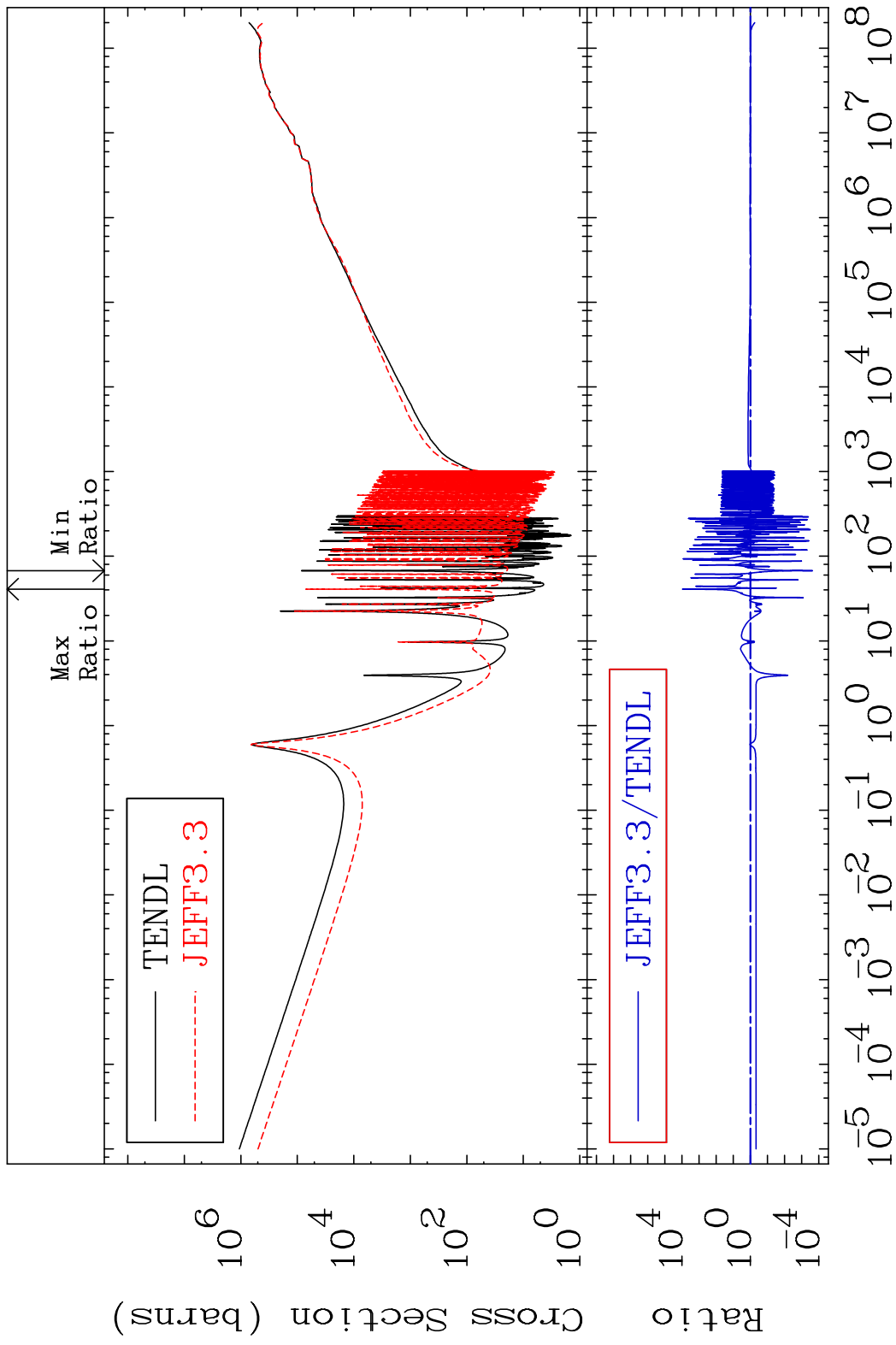


75 Incident Energy (eV) 70-Yb-168

MAT 7025 Total kinematic kerma (high limit) 70-Yb-168  
 Cross Section -99.33 To 9999. %



MAT 7025 Dpa total (eV-barns) 70-Yb-168  
 Cross Section -99.98 To 9999. %



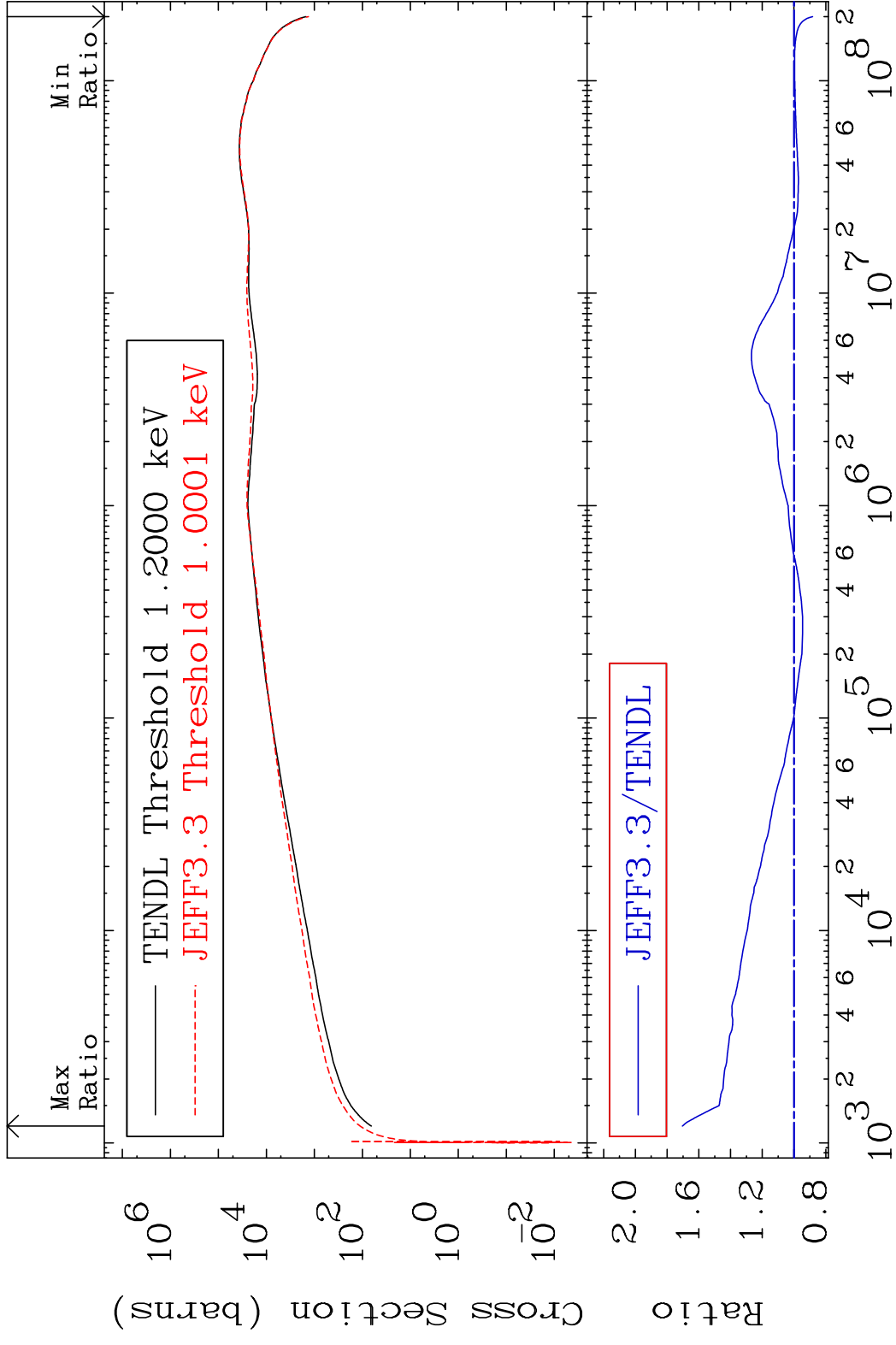
77 Incident Energy (eV) 70-Yb-168

MAT 7025

Dpa elastic (mt2)

70-Yb-168

Cross Section -11.69 To 70.39 %



78

Incident Energy (eV)

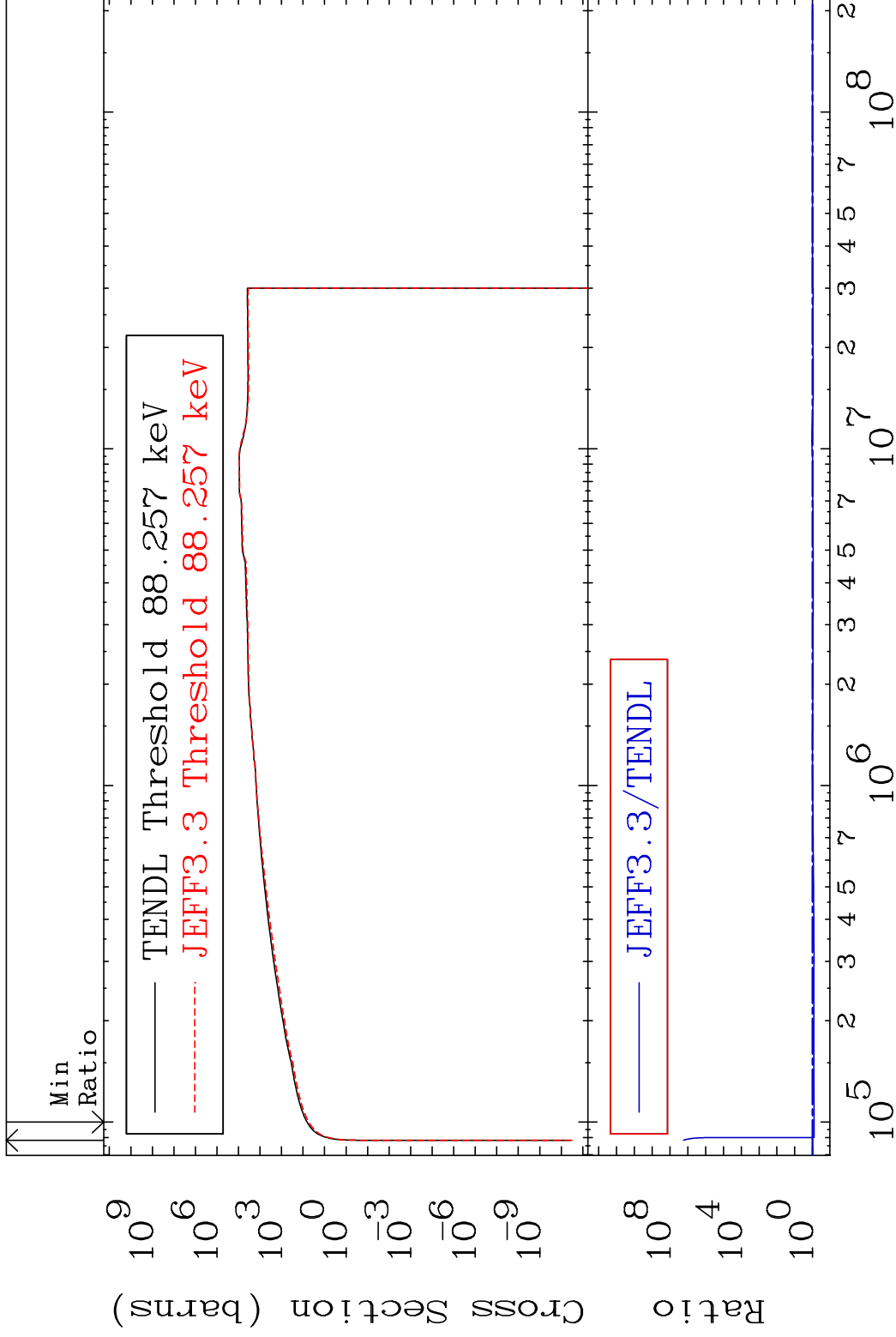
70-Yb-168

MAT 7025

Dpa inelastic (mt51-91)

70-Yb-168

Cross Section -17.45 To 9999. %



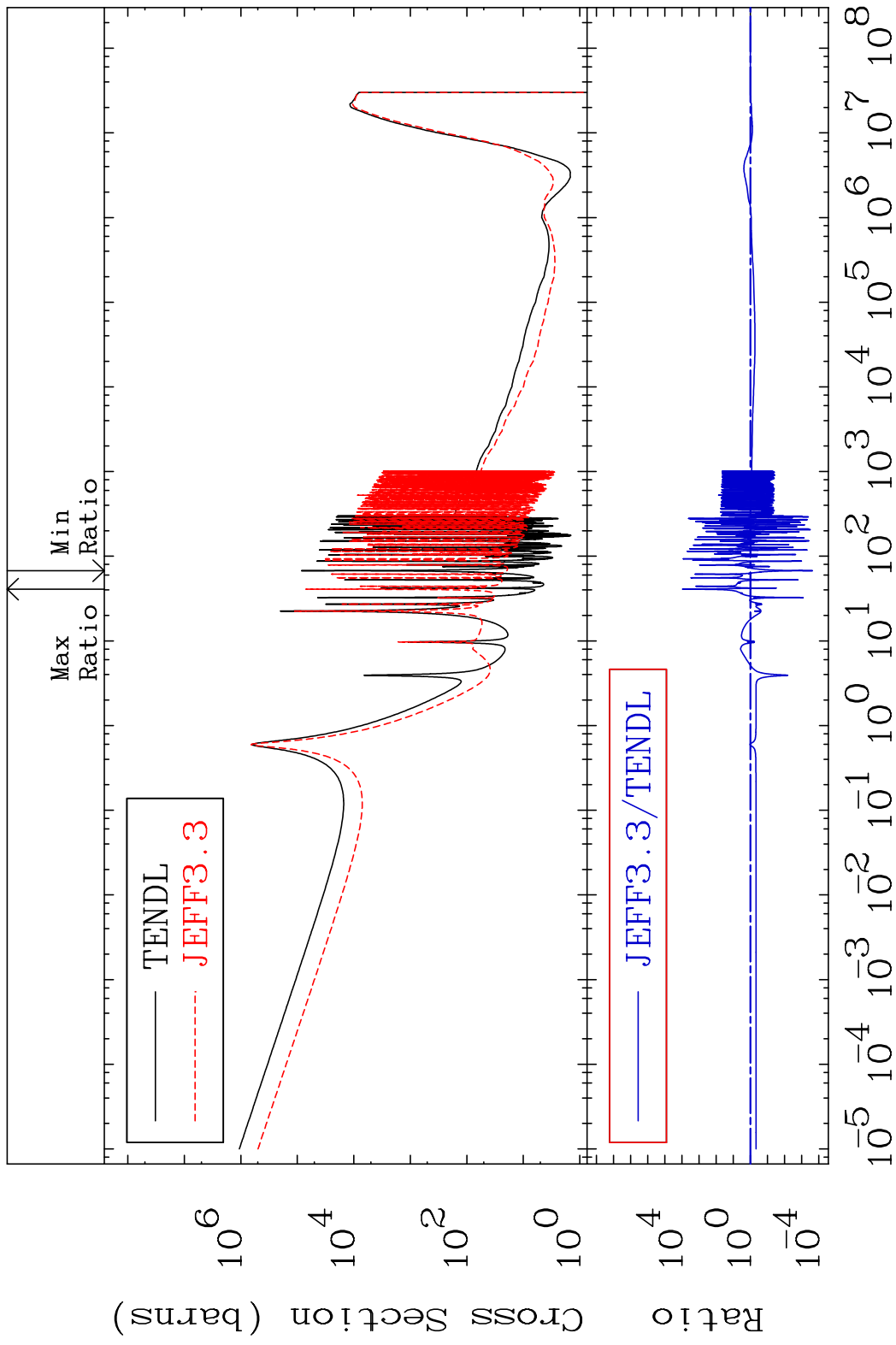
79

Incident Energy (eV)

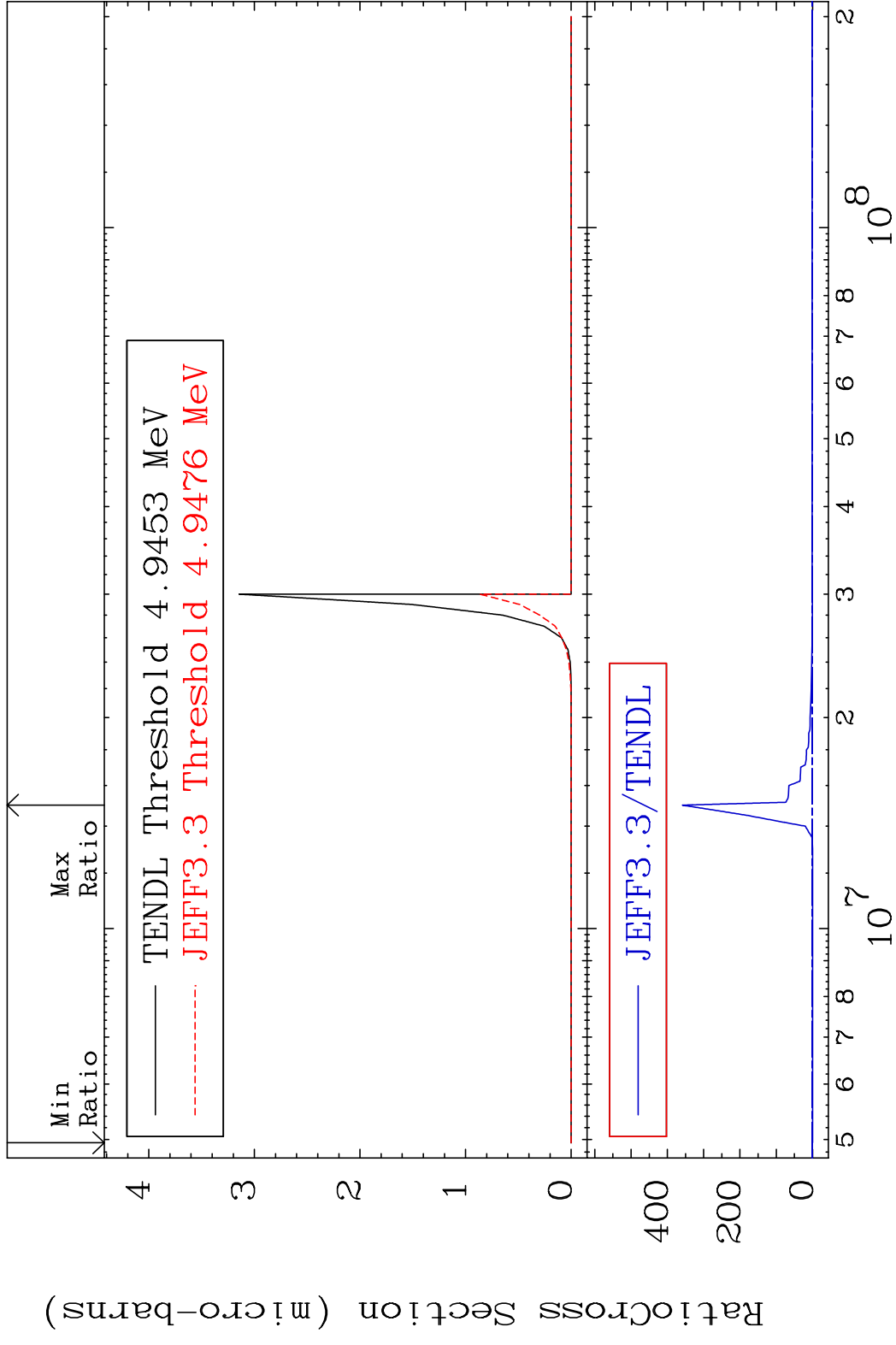
70-Yb-168

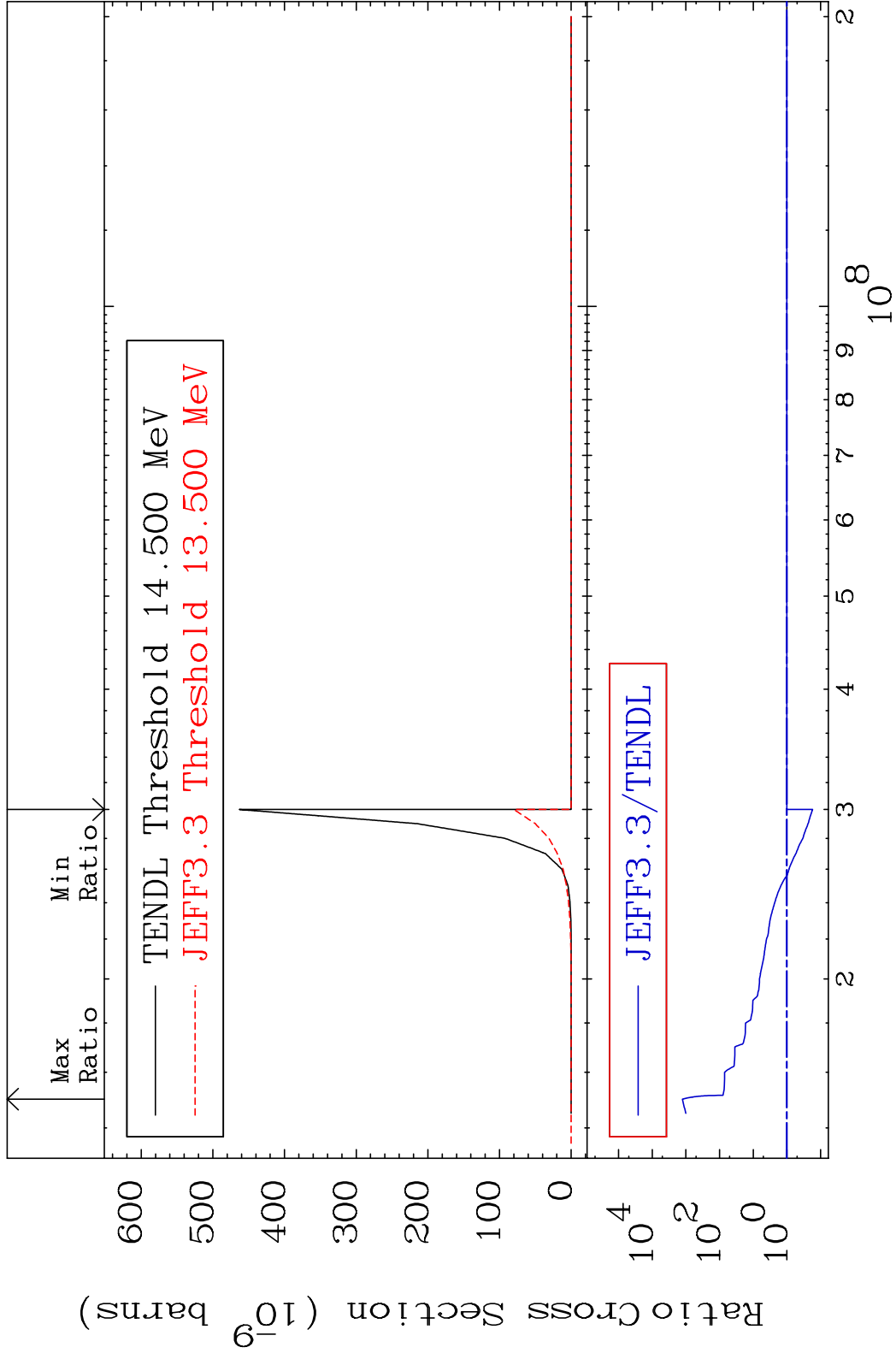


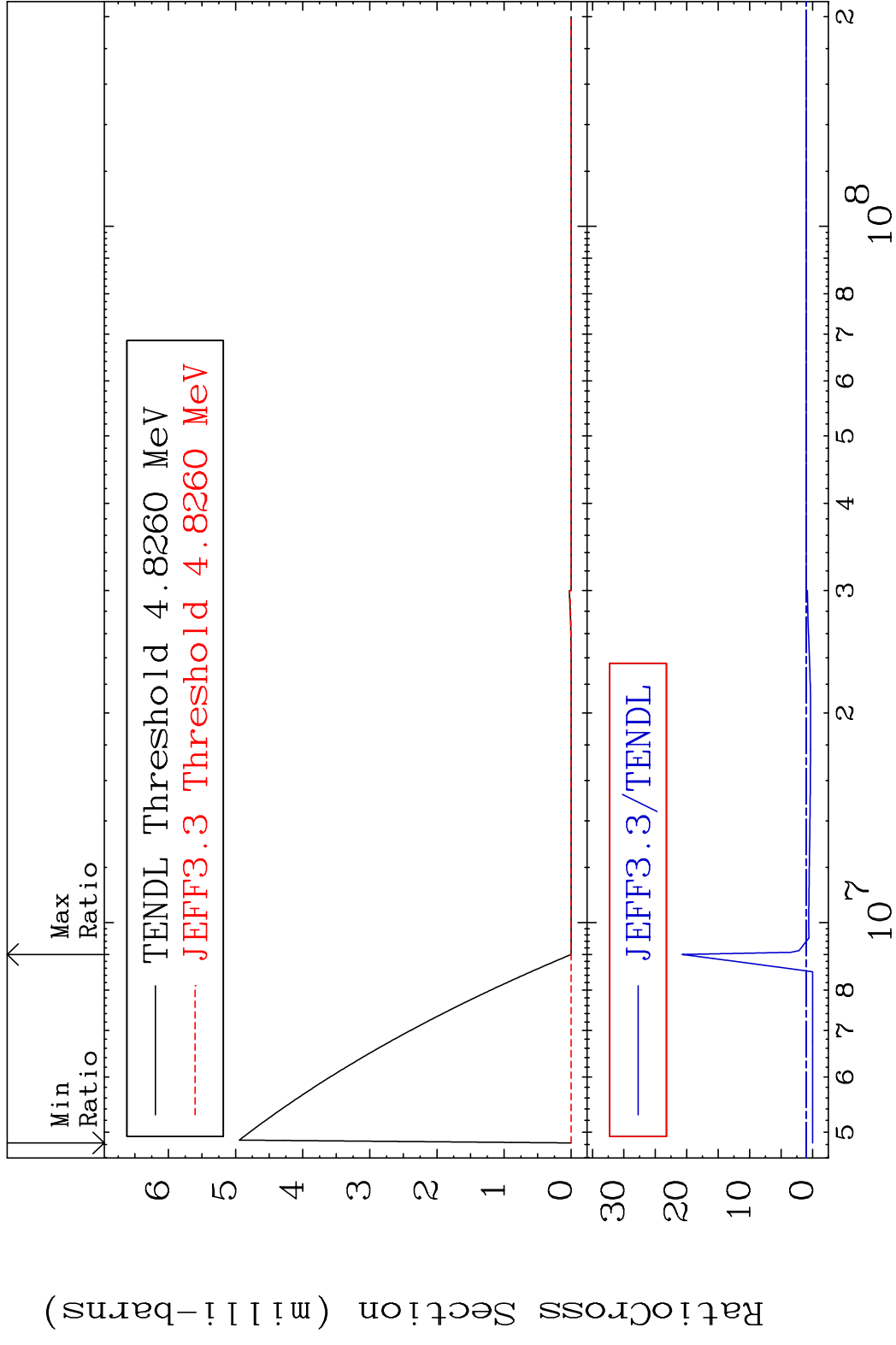
MAT 7025 Dpa disappearance (mt102 -120) 70-Yb-168  
 Cross Section -99.98 To 9999. %

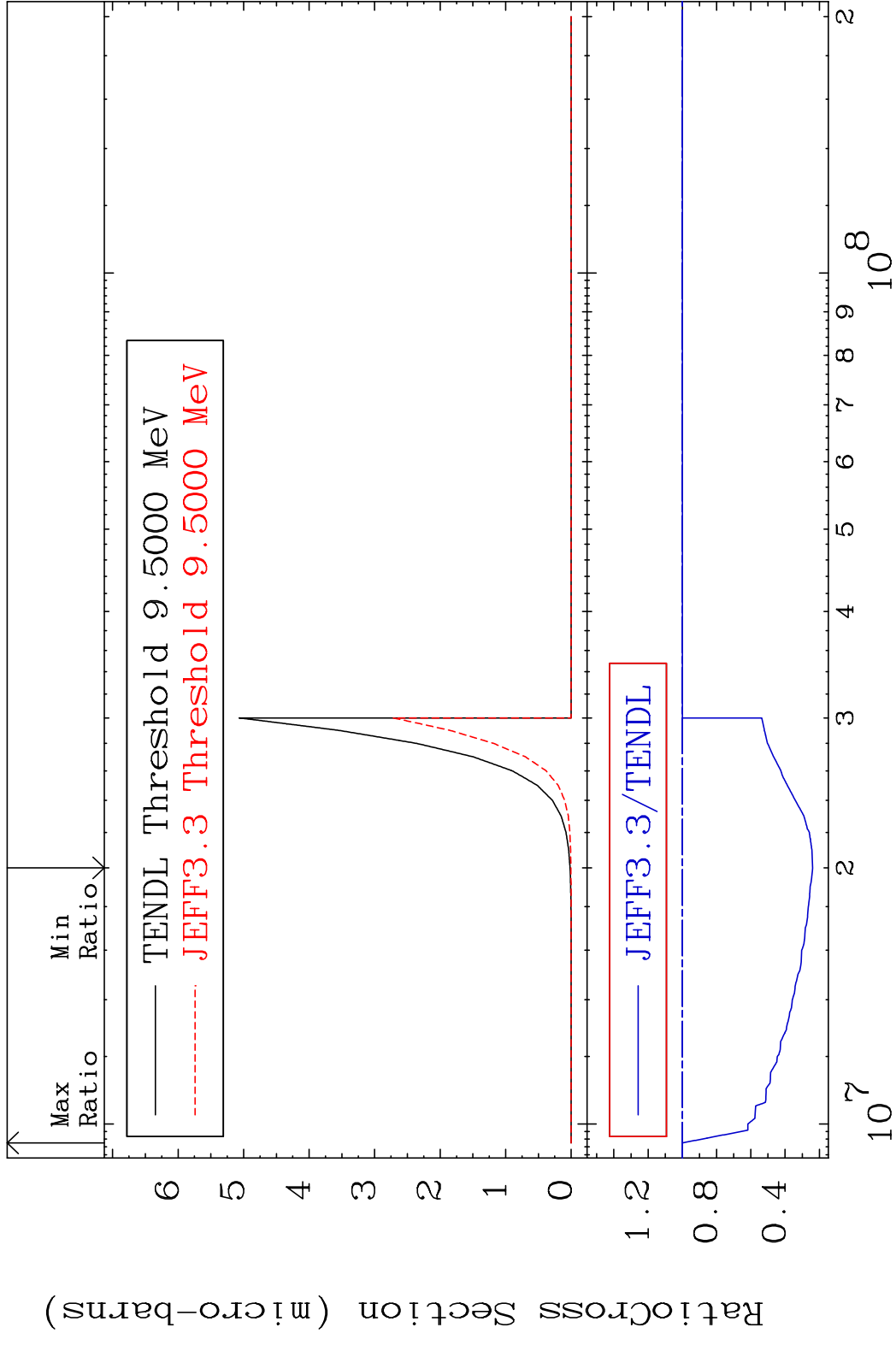


80 70-Yb-168









MAT 7025 (n, d)  $\alpha$ :67-Ho-163g 70-Yb-168  
 Radionuclide Production Cross Section Ratio 9999. %

