

Program Complot  
(Version 2021-1)

by

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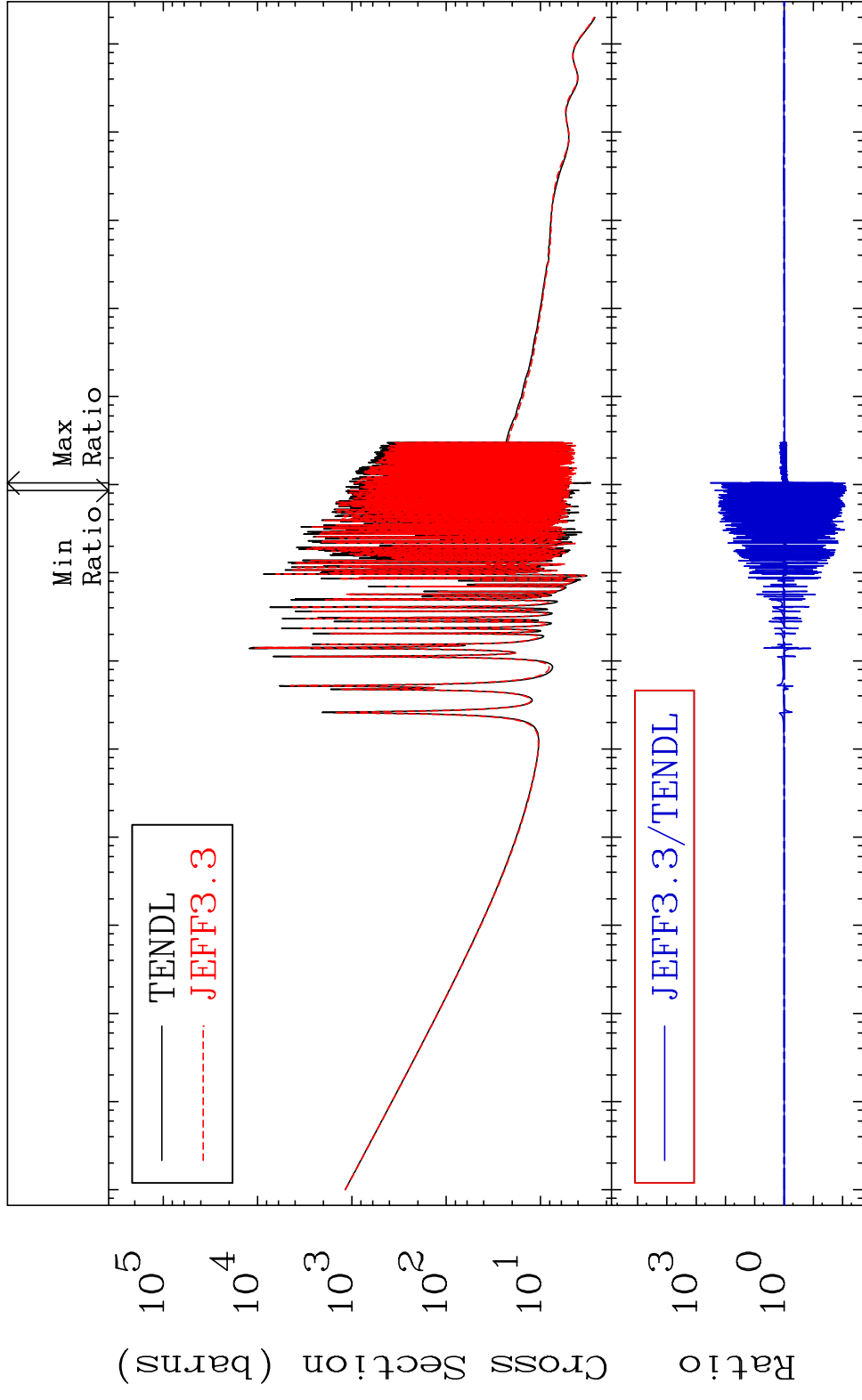
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E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7125

Total Cross Section -99.25 To 9999. %  
71-Lu-175



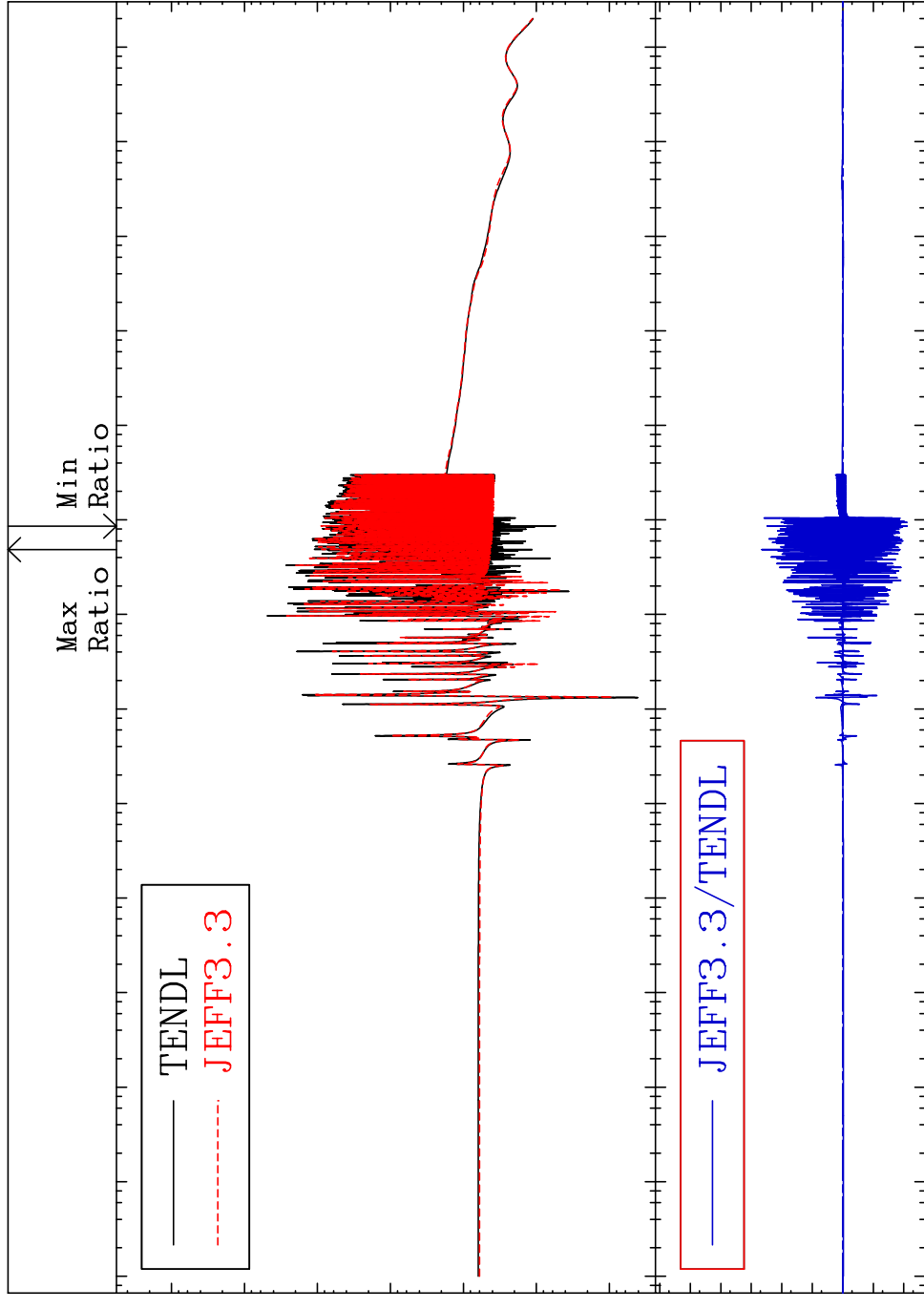
10<sup>5</sup> 10<sup>4</sup> 10<sup>3</sup> 10<sup>2</sup> 10<sup>1</sup> 10<sup>0</sup> 10<sup>-1</sup> 10<sup>-2</sup> 10<sup>-3</sup> 10<sup>-4</sup> 10<sup>-5</sup>

10<sup>8</sup> 10<sup>7</sup> 10<sup>6</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>

1 Incident Energy (eV) 71-Lu-175

MAT 7125

Elastic Cross Section -99.23 To 9999. %  
71-Lu-175

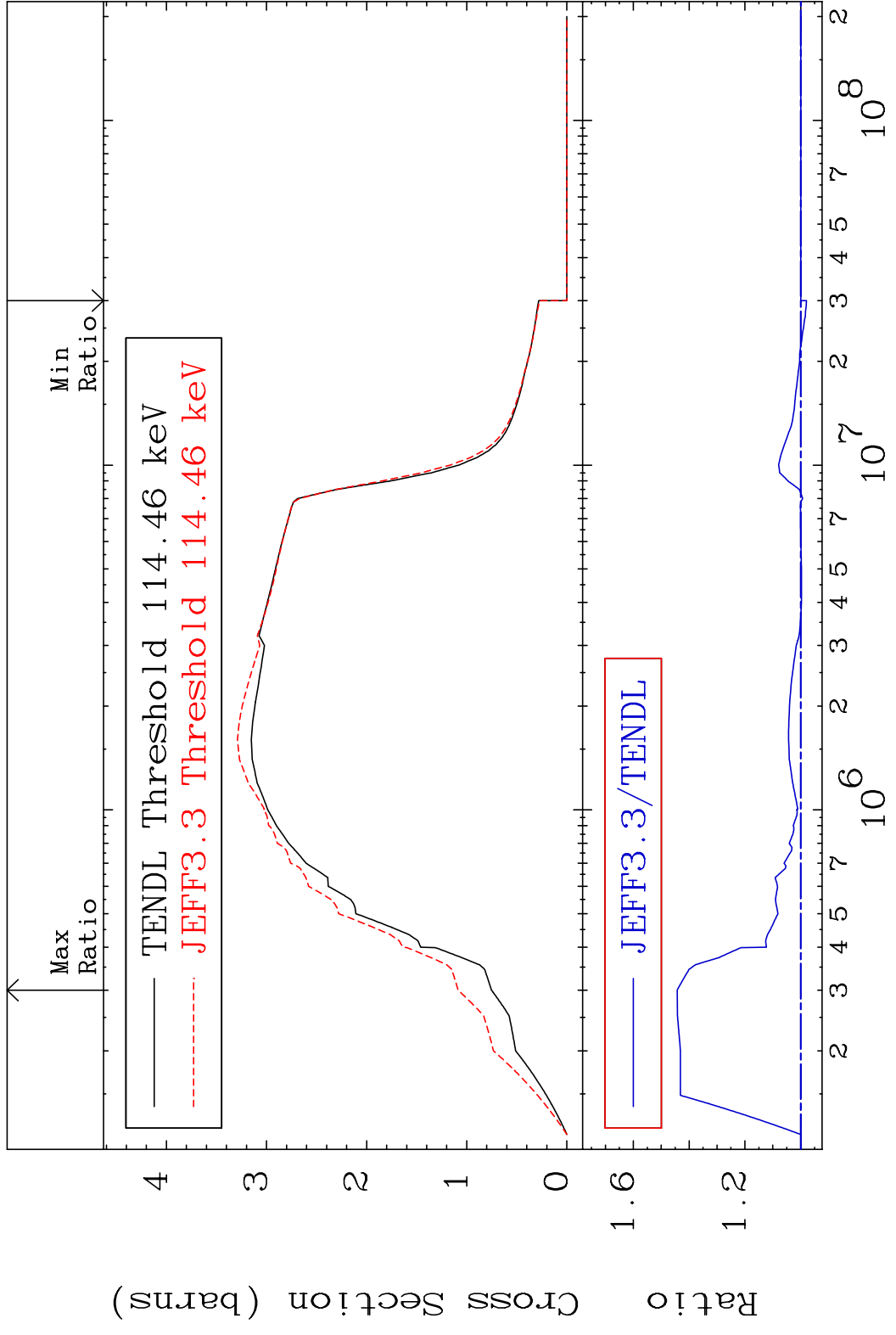


10<sup>5</sup>  
10<sup>4</sup>  
10<sup>3</sup>  
10<sup>2</sup>  
10<sup>1</sup>  
10<sup>0</sup>  
10<sup>-1</sup>  
Cross Section (barns)

10<sup>3</sup>  
10<sup>0</sup>  
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>  
Incident Energy (eV)

MAT 7125 Inelastic 71-Lu-175  
 Cross Section -2.049 To 44.28 %

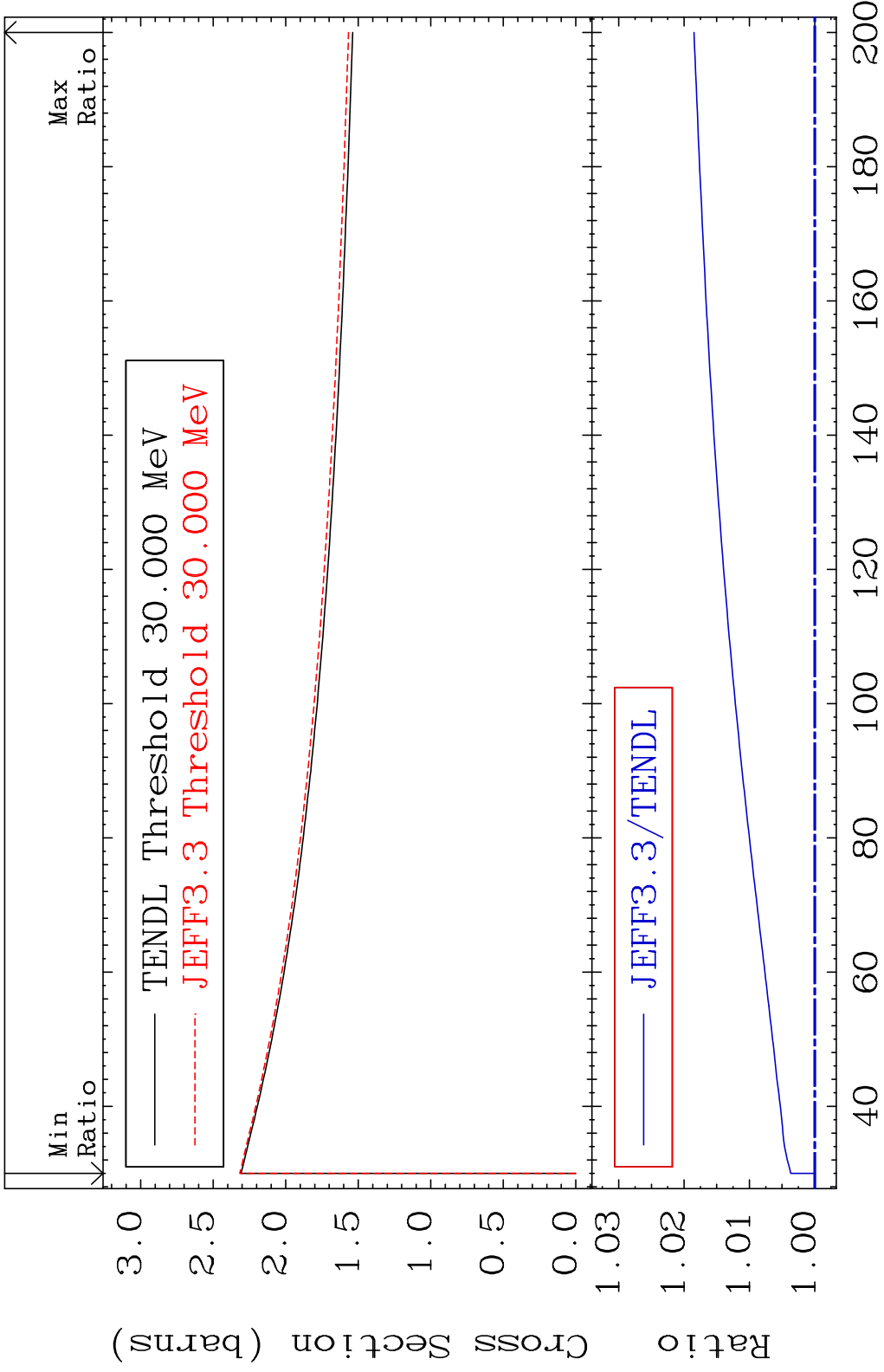


MAT 7125

(n, remainder)

71-Lu-175

Cross Section 0.000 To 1.848 %



4

Incident Energy (MeV)

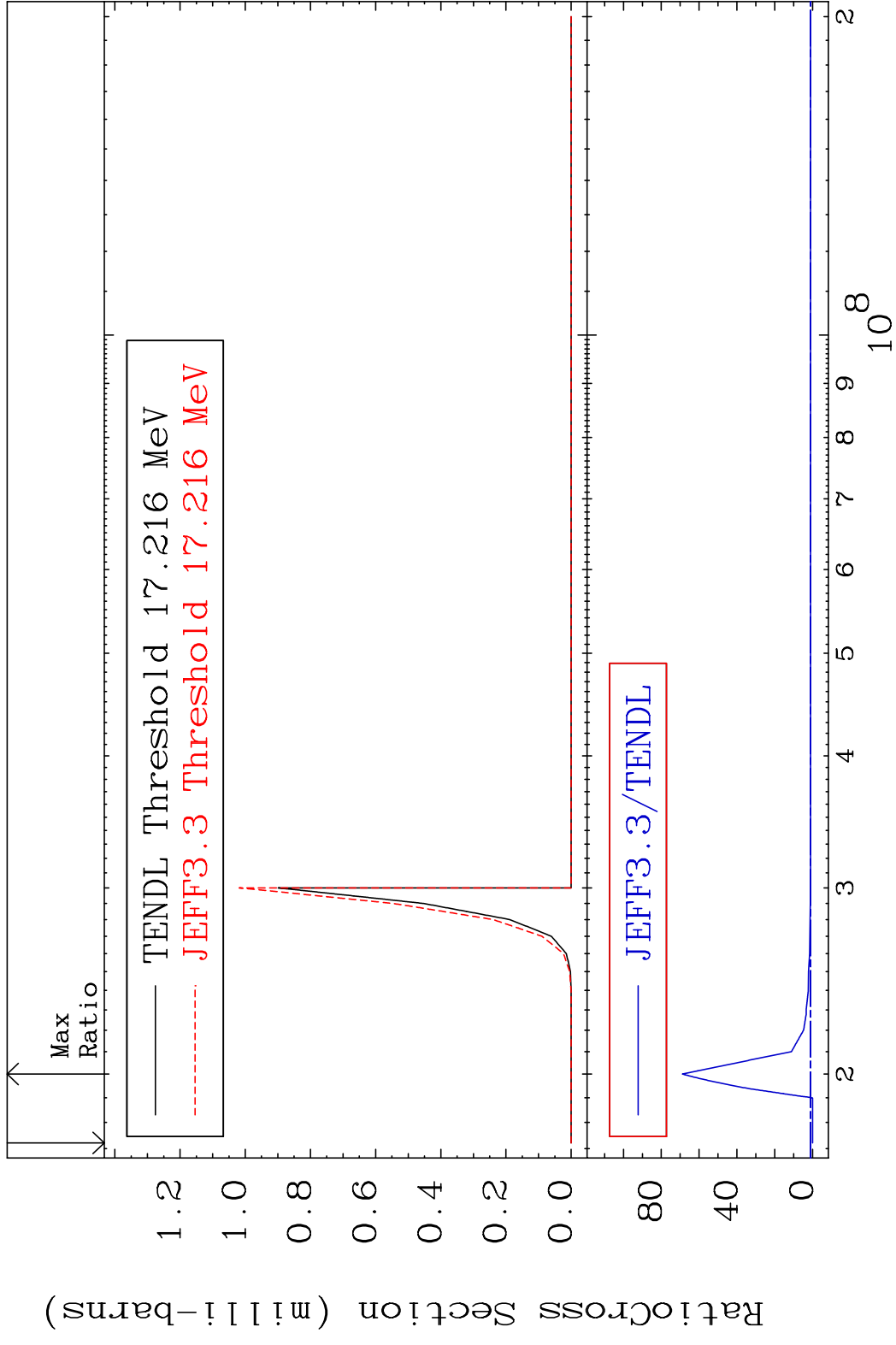
71-Lu-175

MAT 7125

(n,2n) d

71-Lu-175

Cross Section -100.0 To 6786. %

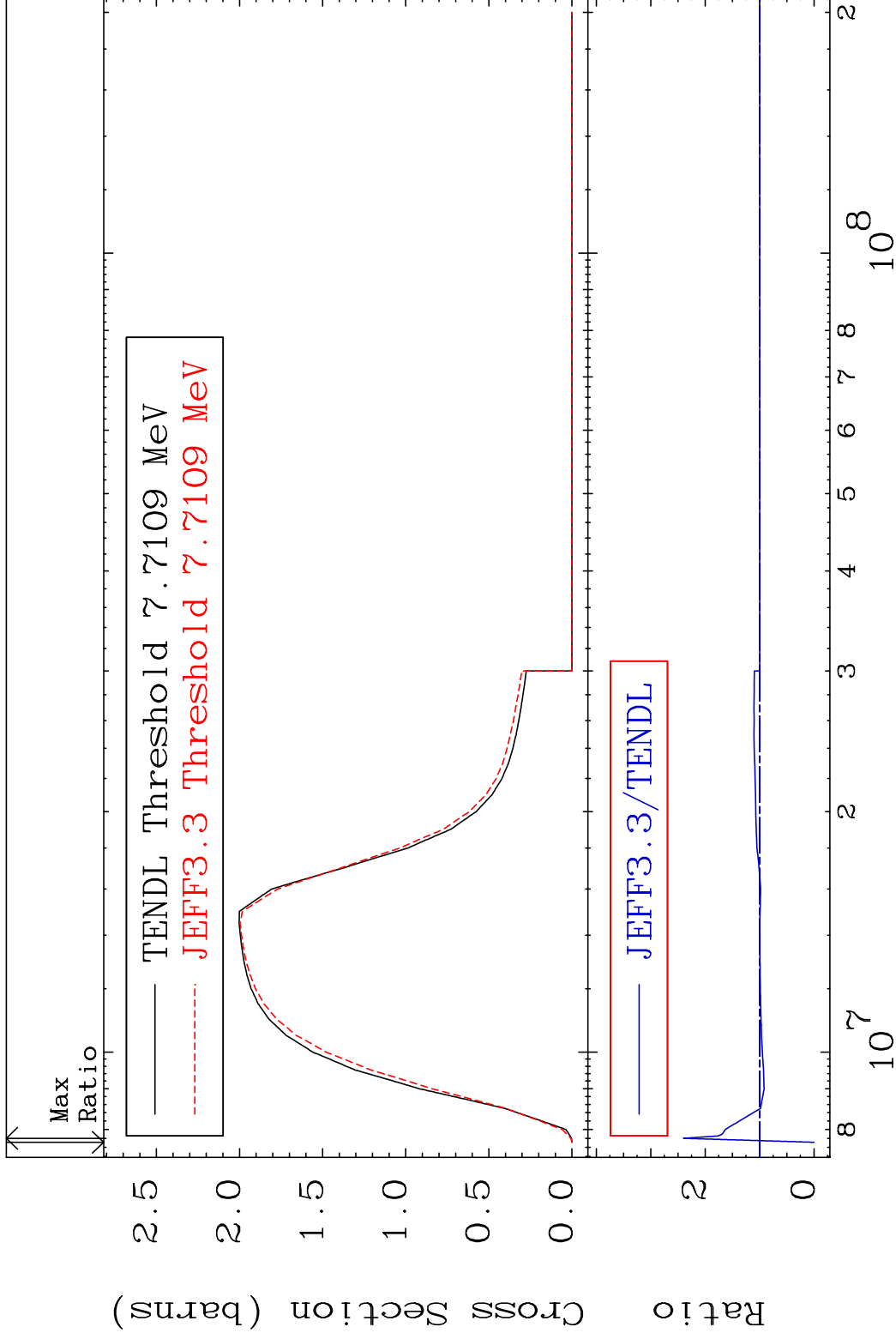


MAT 7125

(n,2n)

71-Lu-175

Cross Section -100.0 To 139.9 %



6

Incident Energy (eV)

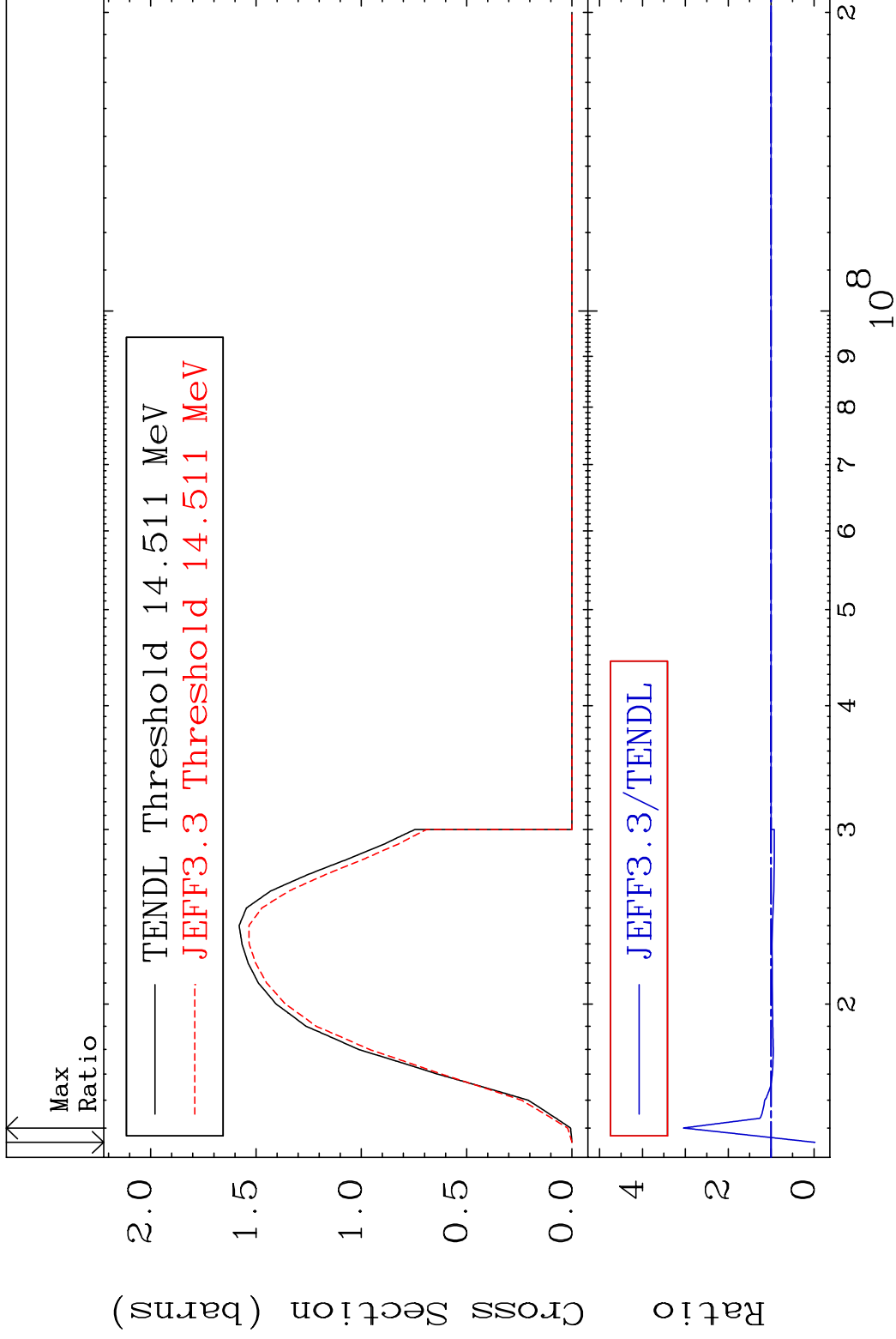
71-Lu-175

MAT 7125

(n,3n)

71-Lu-175

Cross Section -100.0 To 204.4 %



7

Incident Energy (eV)

71-Lu-175

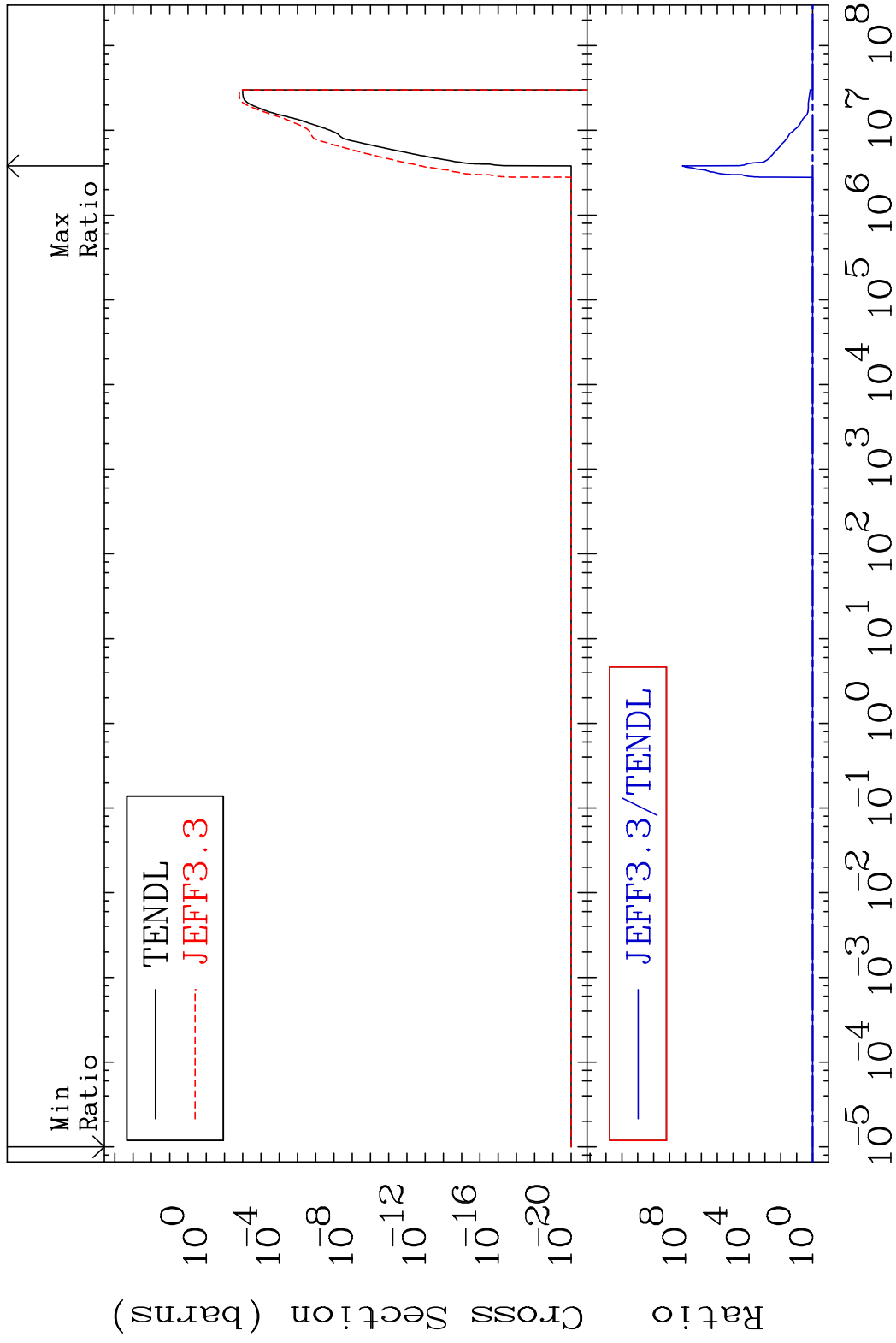


MAT 7125

(n, n')  $\alpha$

71-Lu-175

Cross Section 0.000 To 9999. %

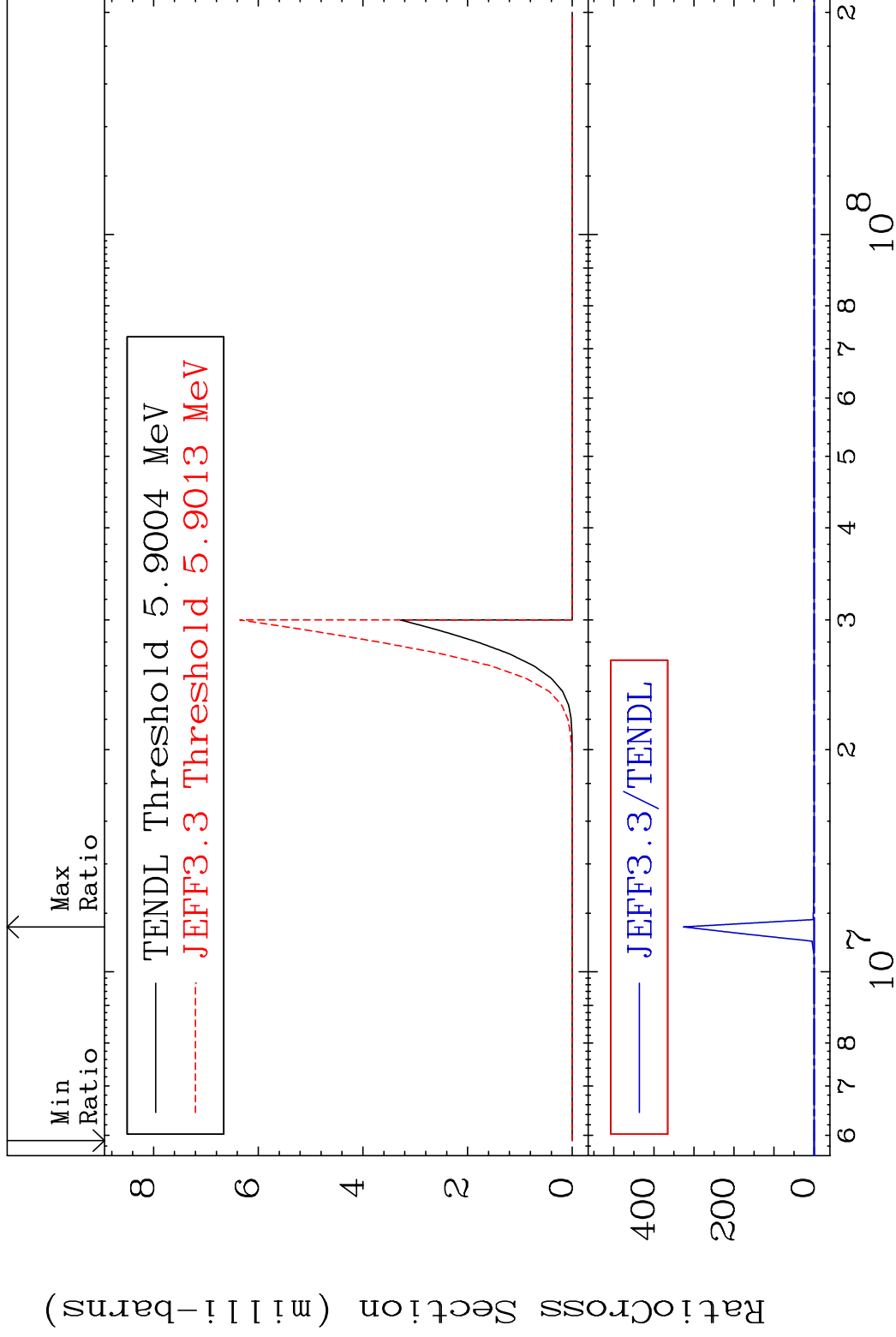


MAT 7125

(n,2n)  $\alpha$

71-Lu-175

Cross Section -100.0 To 9999. %



9

Incident Energy (eV)

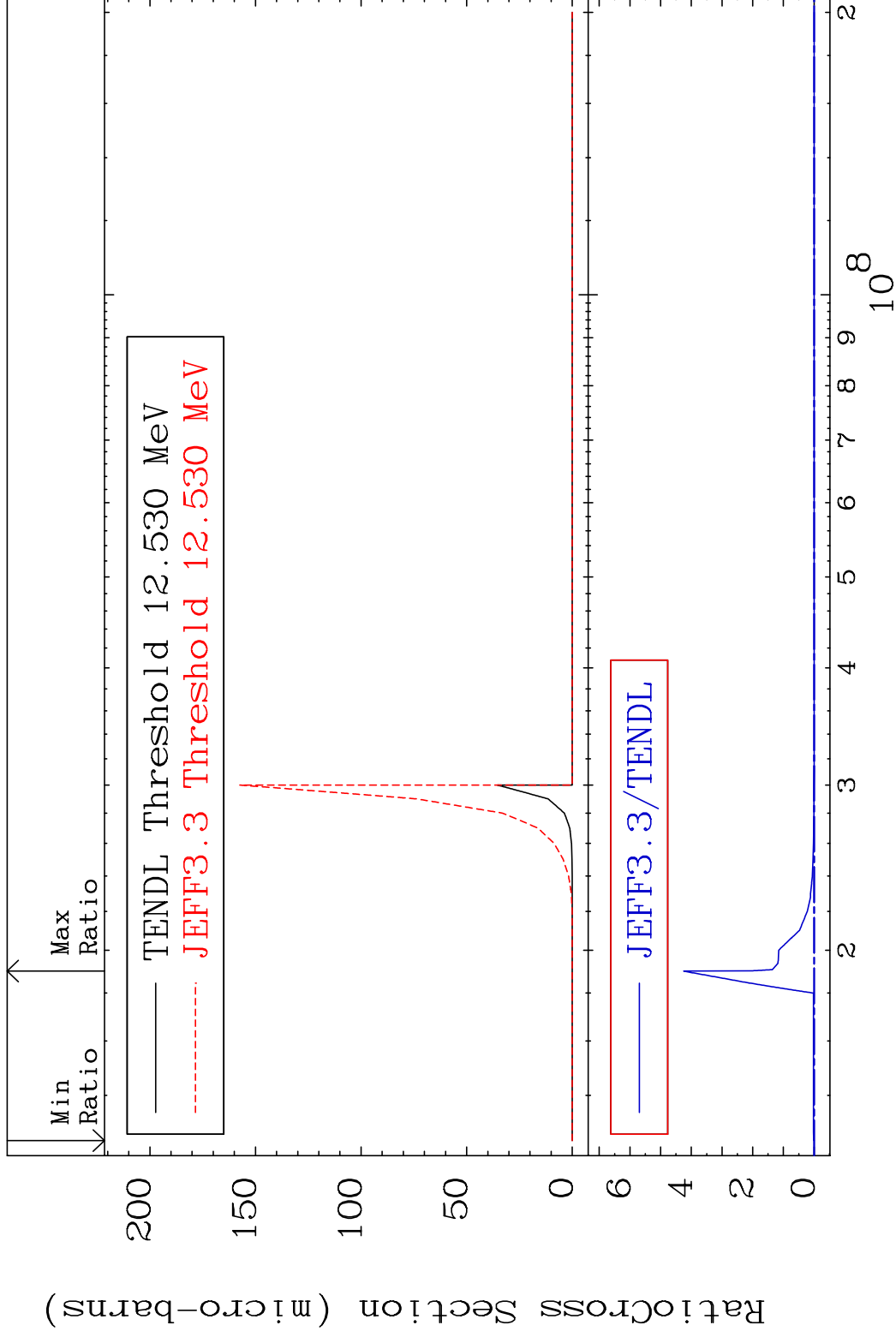
71-Lu-175

MAT 7125

(n,3n)  $\alpha$

71-Lu-175

Cross Section -100.0 To 9999. %

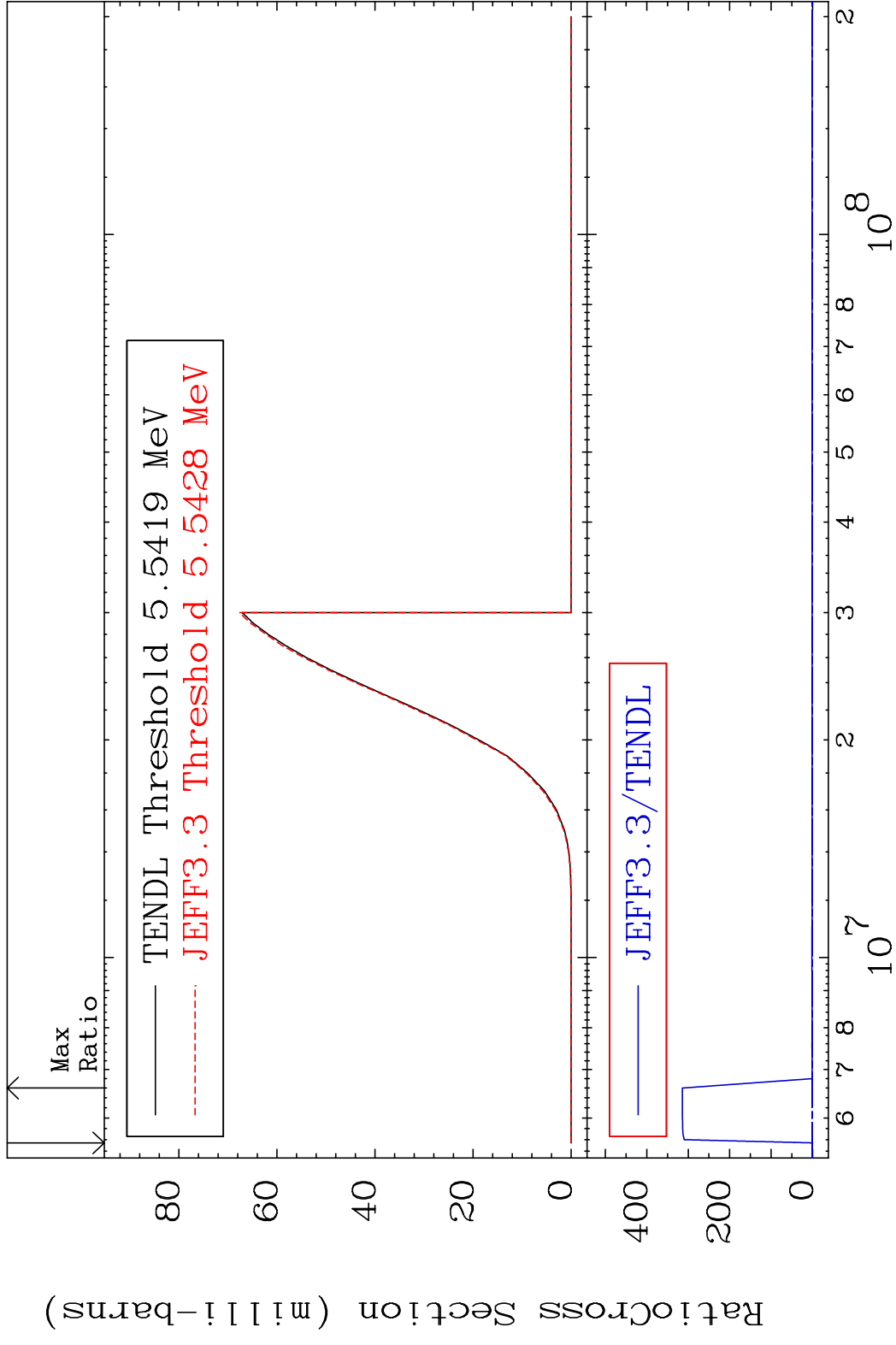


10

Incident Energy (eV)

71-Lu-175

MAT 7125 (n, n') p 71-Lu-175  
 Cross Section -100.0 To 9999. %

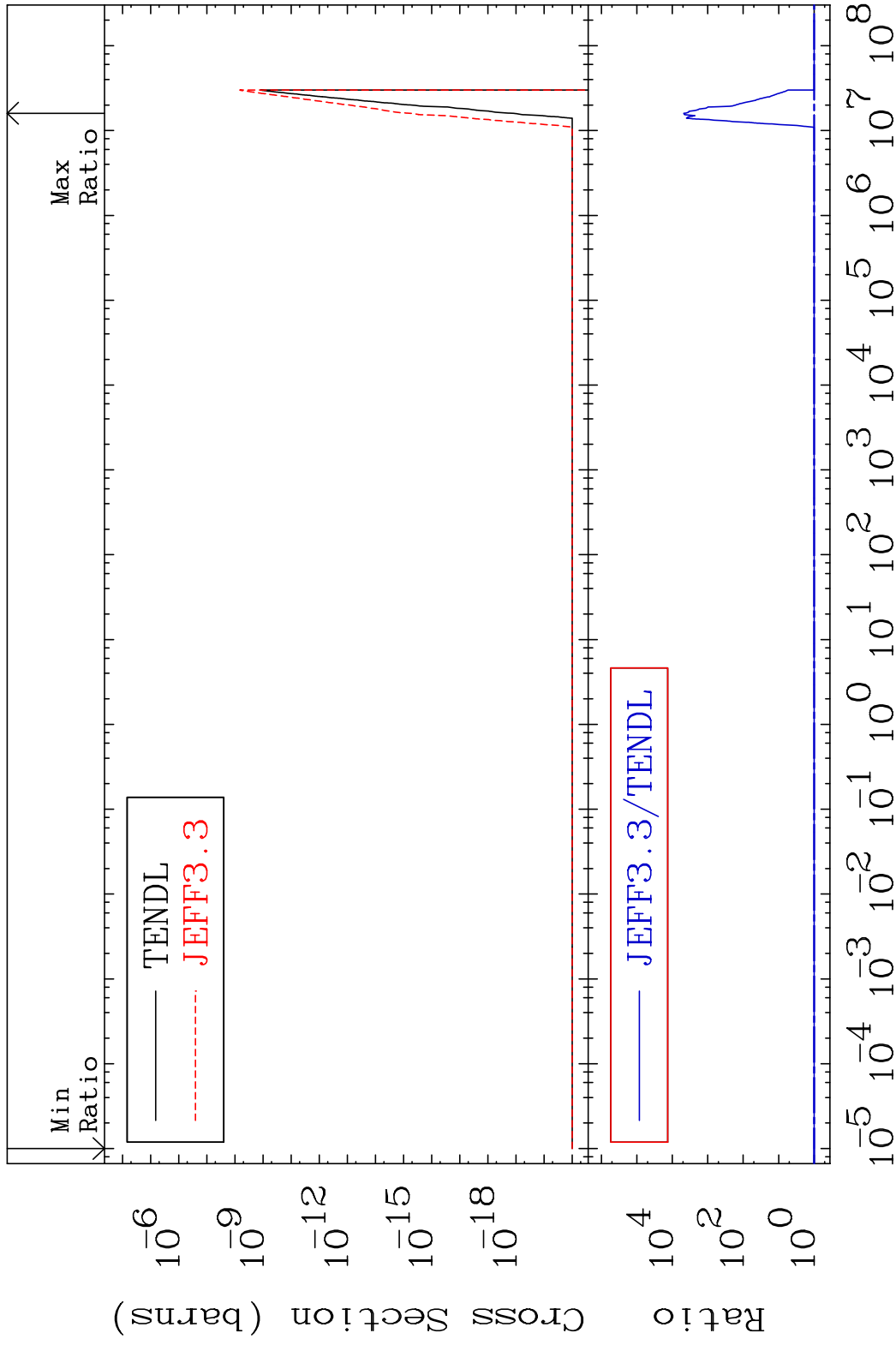


MAT 7125

(n, n') 2α

71-Lu-175

Cross Section 0.000 To 9999. %



12

Incident Energy (eV)

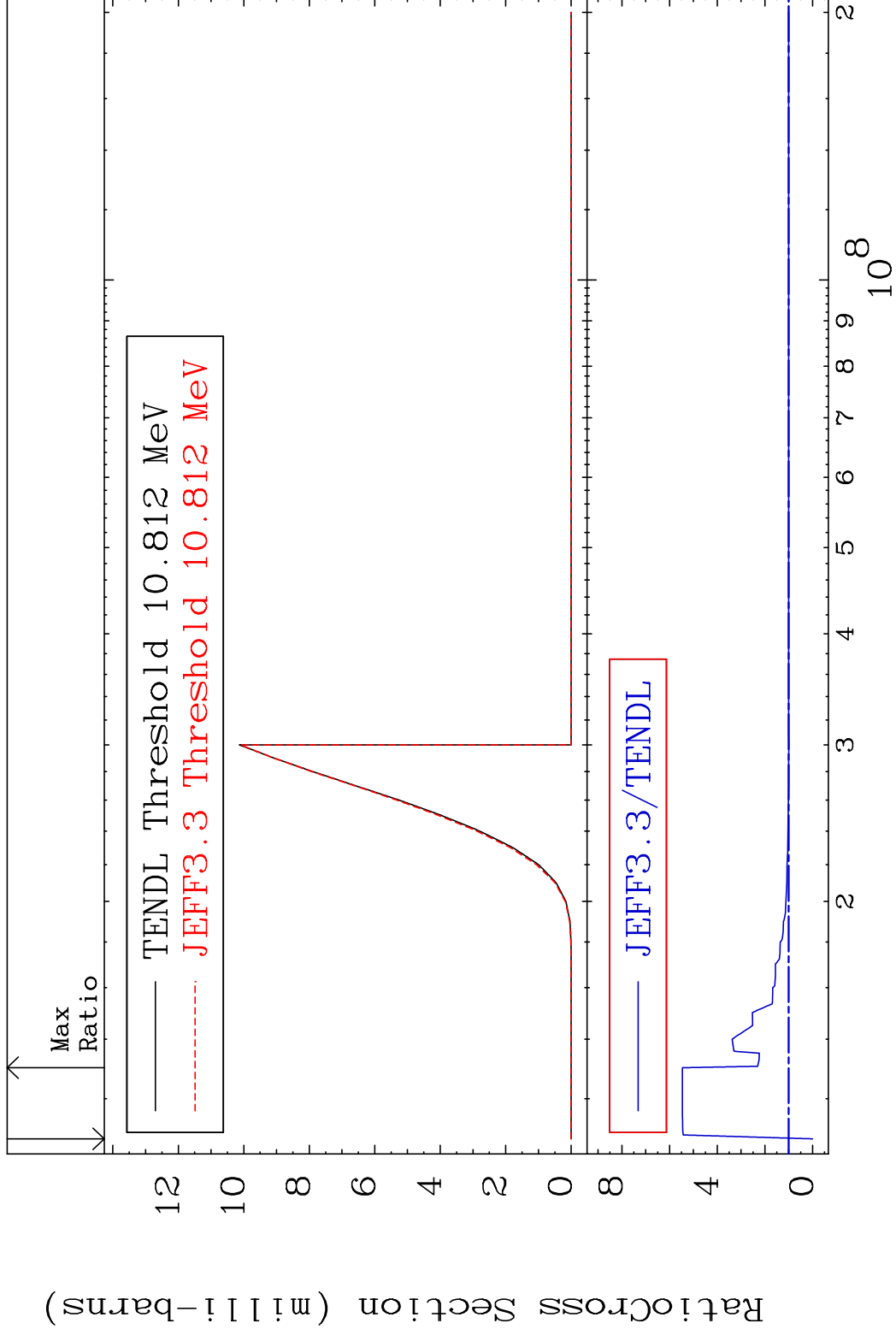
71-Lu-175

MAT 7125

(n, n') d

71-Lu-175

Cross Section -100.0 To 446.3 %

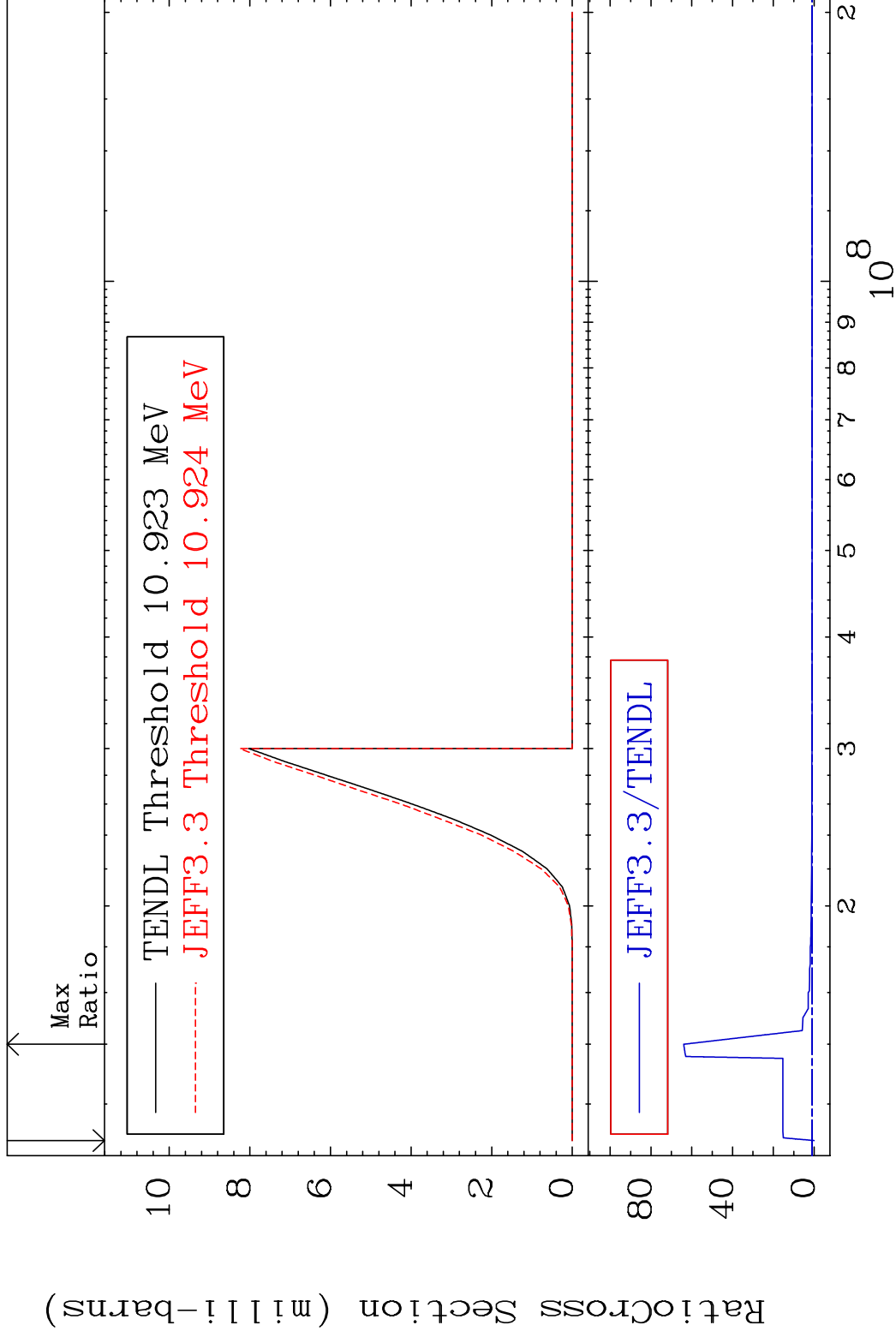


MAT 7125

(n, n') t

71-Lu-175

Cross Section -100.0 To 6298. %

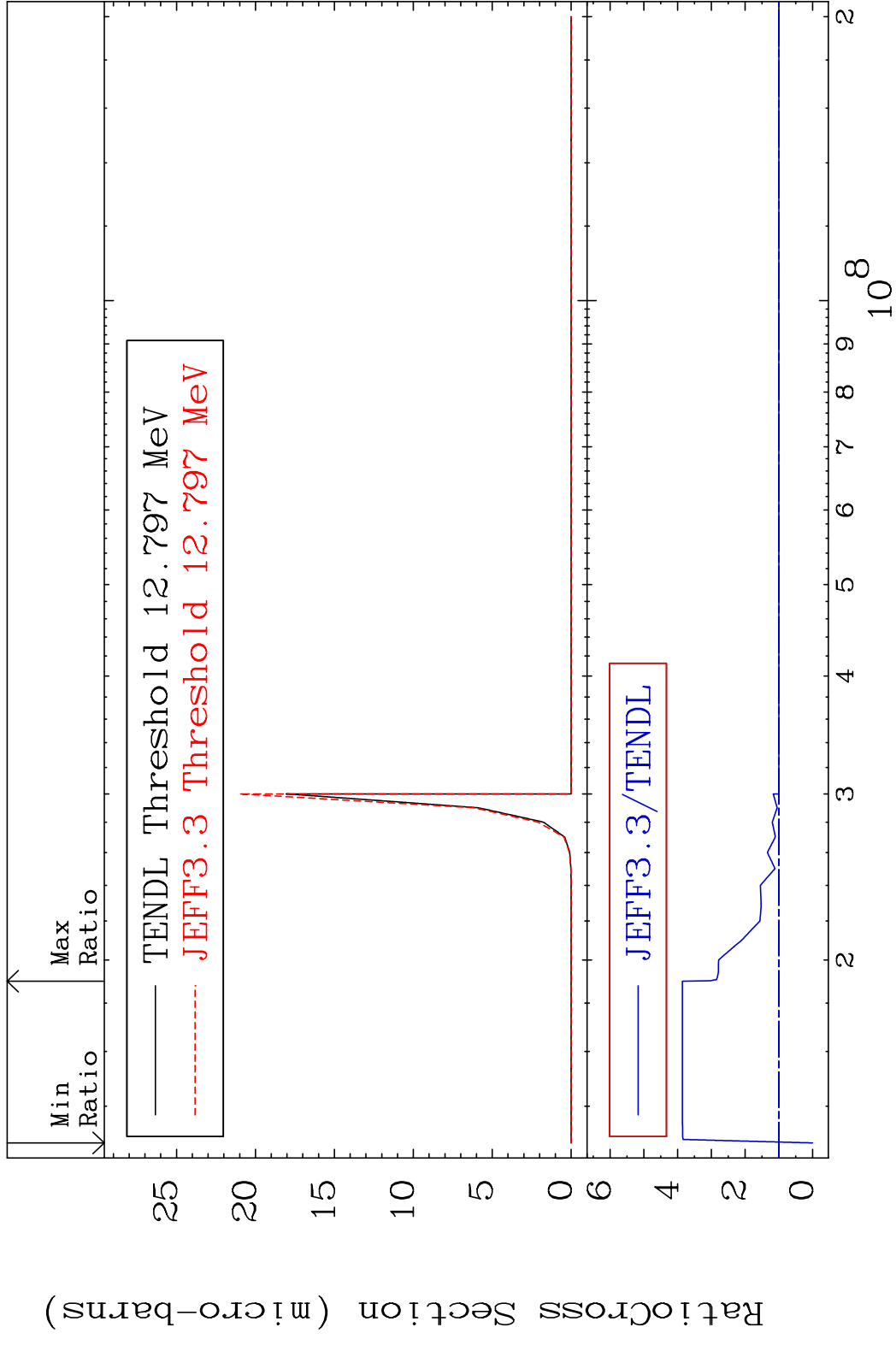


MAT 7125

(n,n') He-3

71-Lu-175

Cross Section -100.0 To 286.0 %



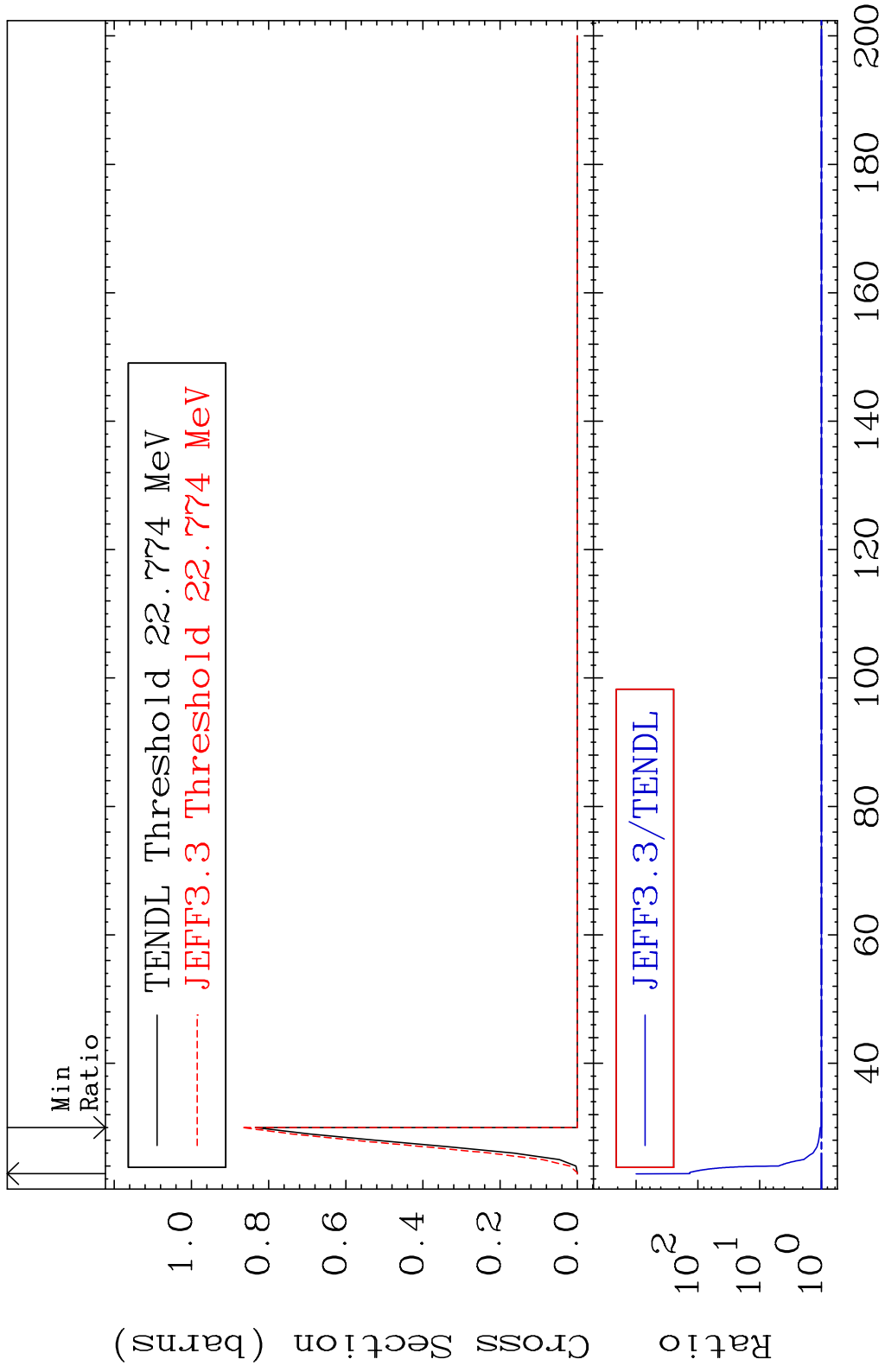


MAT 7125

(n,4n)

71-Lu-175

Cross Section 0.000 To 9999. %

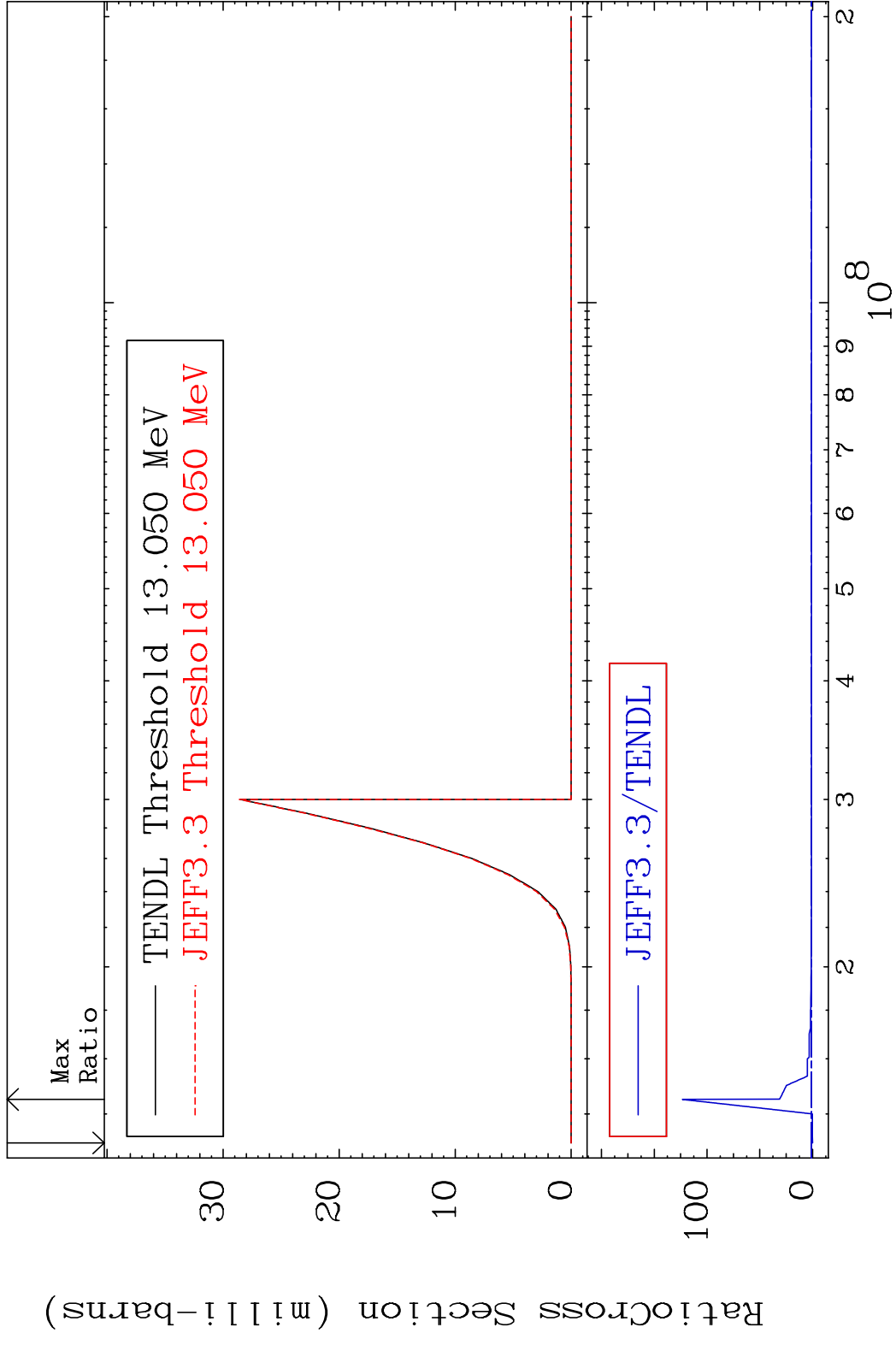


MAT 7125

(n,2n) p

71-Lu-175

Cross Section -100.0 To 9999. %

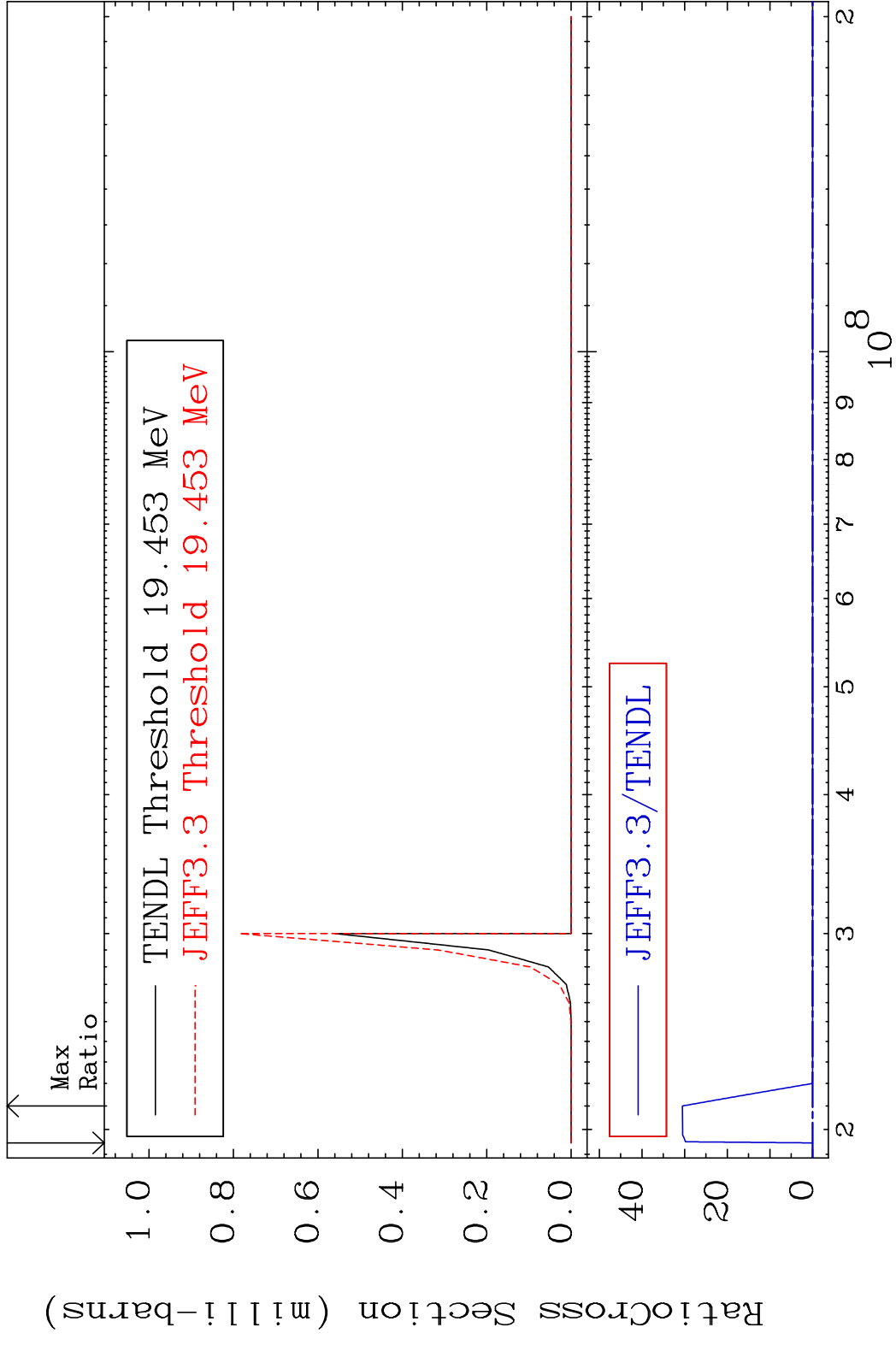


MAT 7125

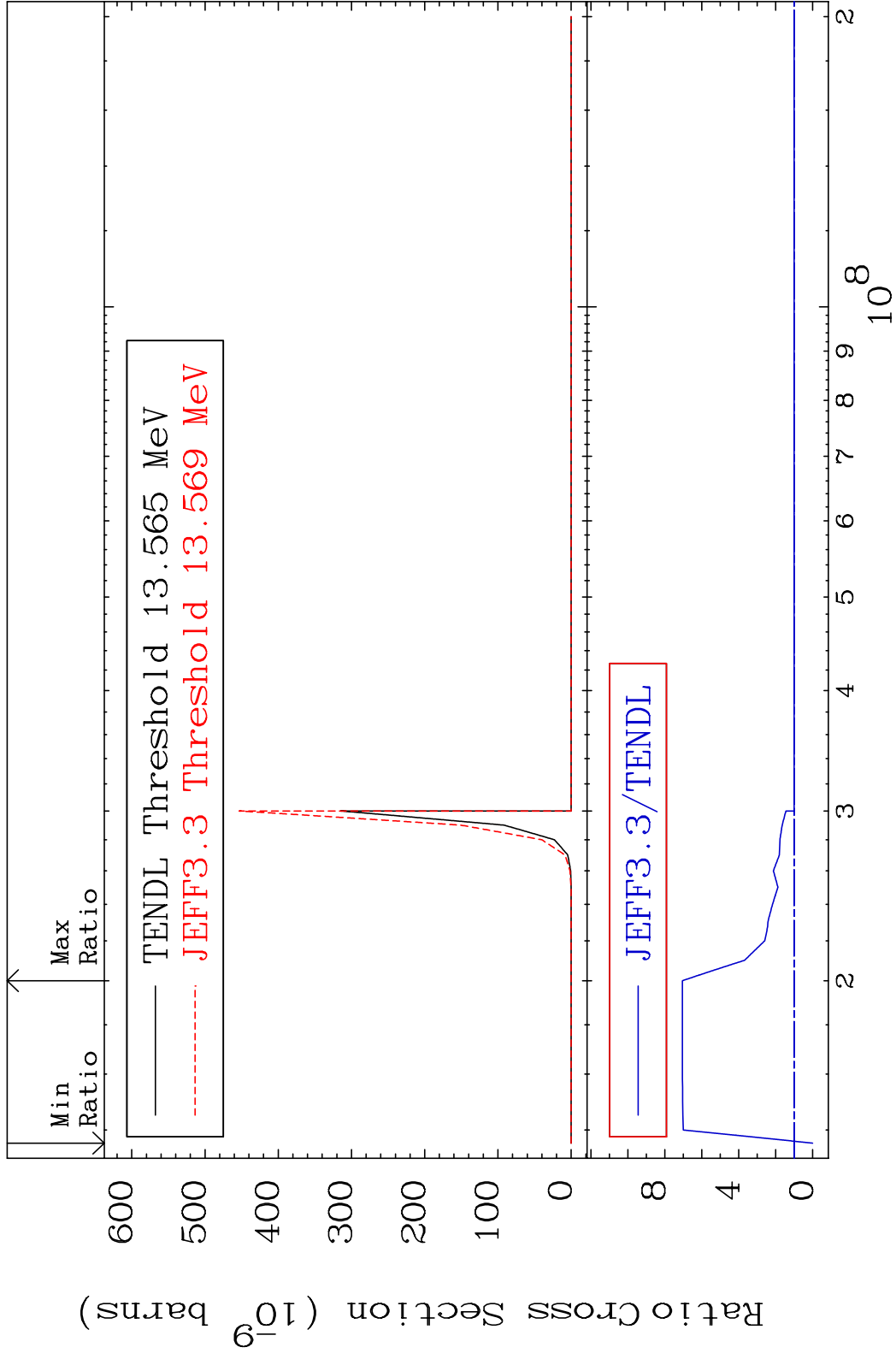
(n,3n) p

71-Lu-175

Cross Section -100.0 To 9999. %



MAT 7125 (n,2n) p 71-Lu-175  
 Cross Section -100.0 To 604.8 %

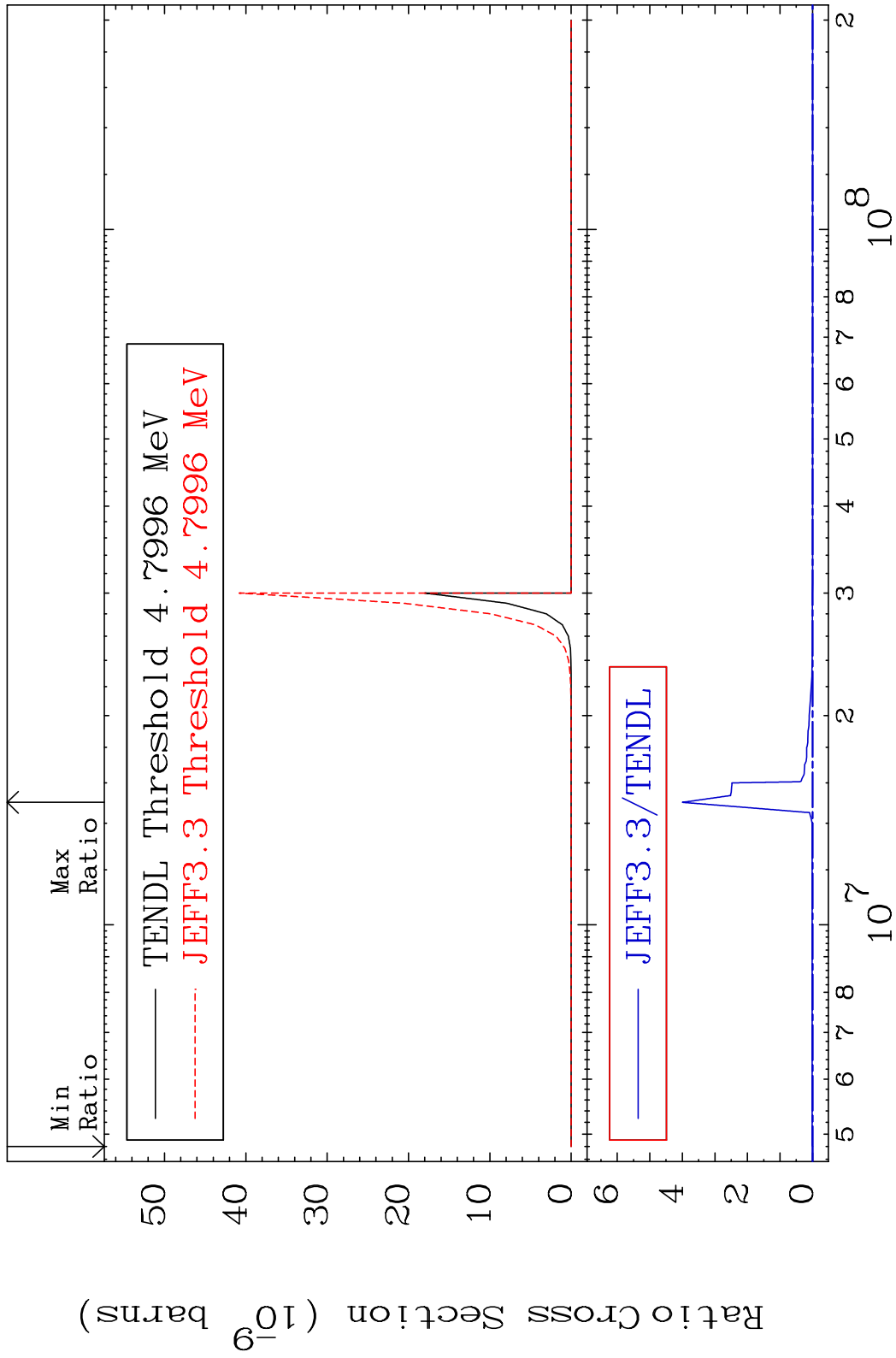


MAT 7125

71-Lu-175

(n,n') p  $\alpha$

Cross Section -100.0 To 9999. %

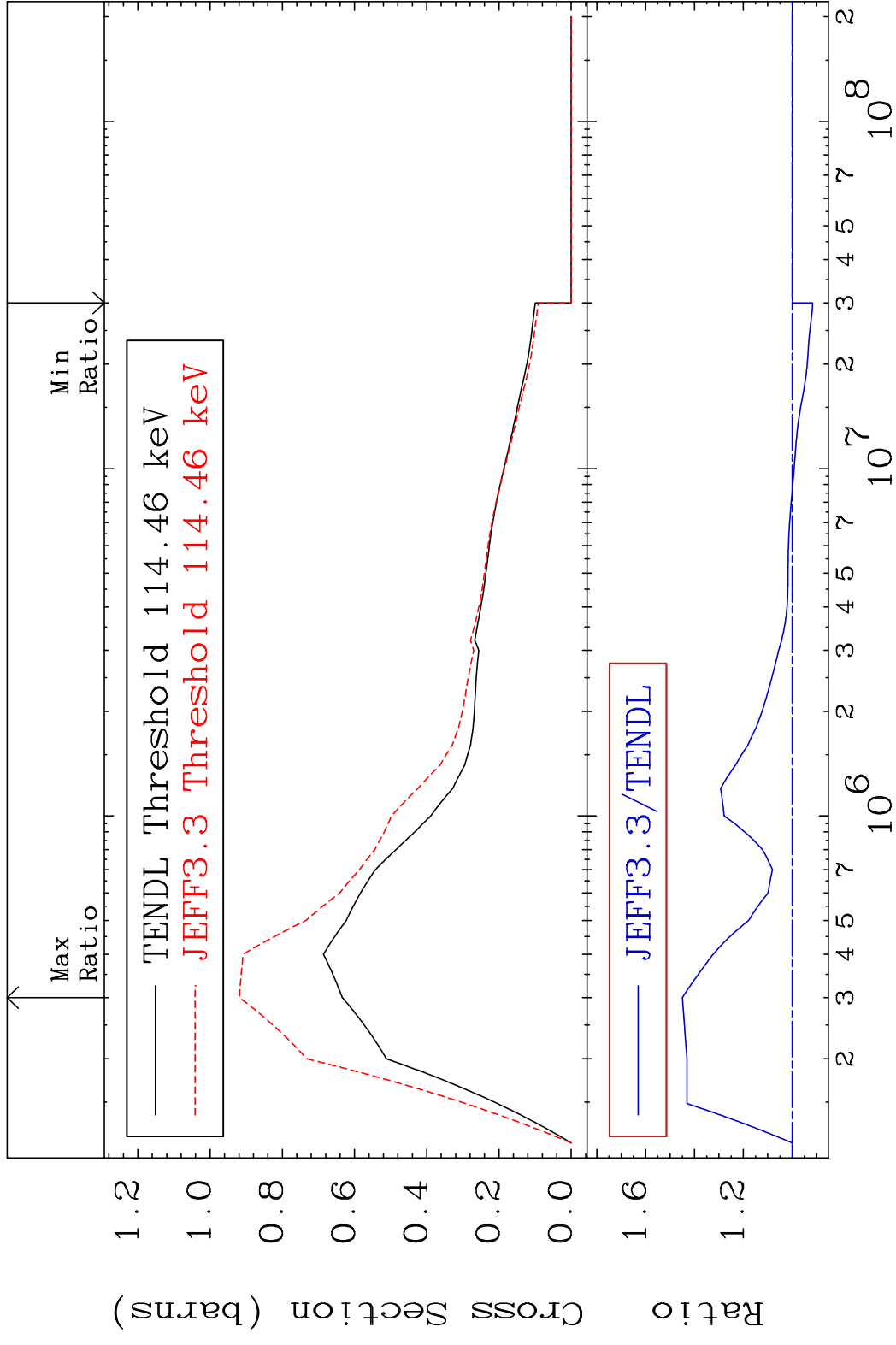


20

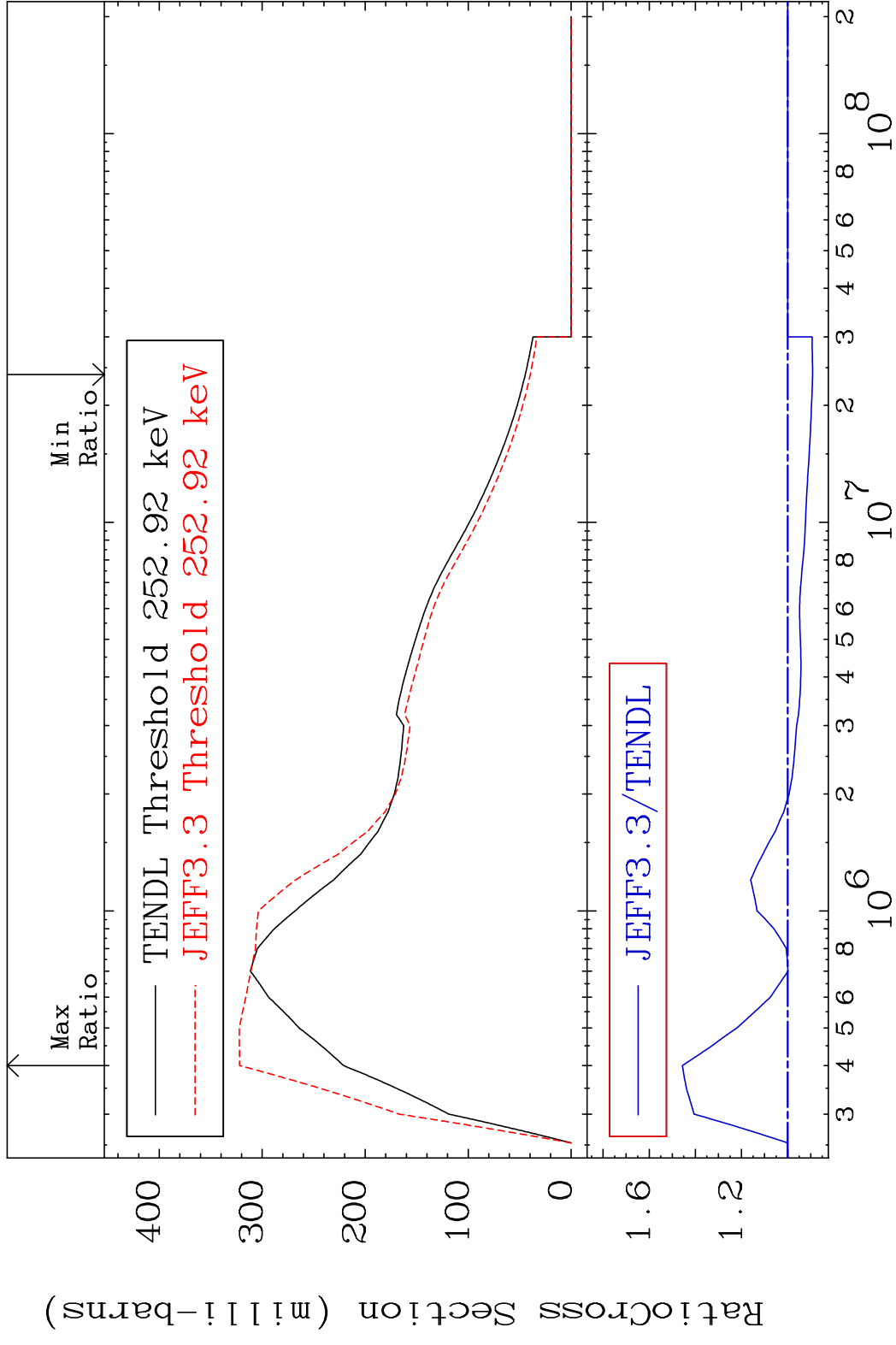
Incident Energy (eV)

71-Lu-175

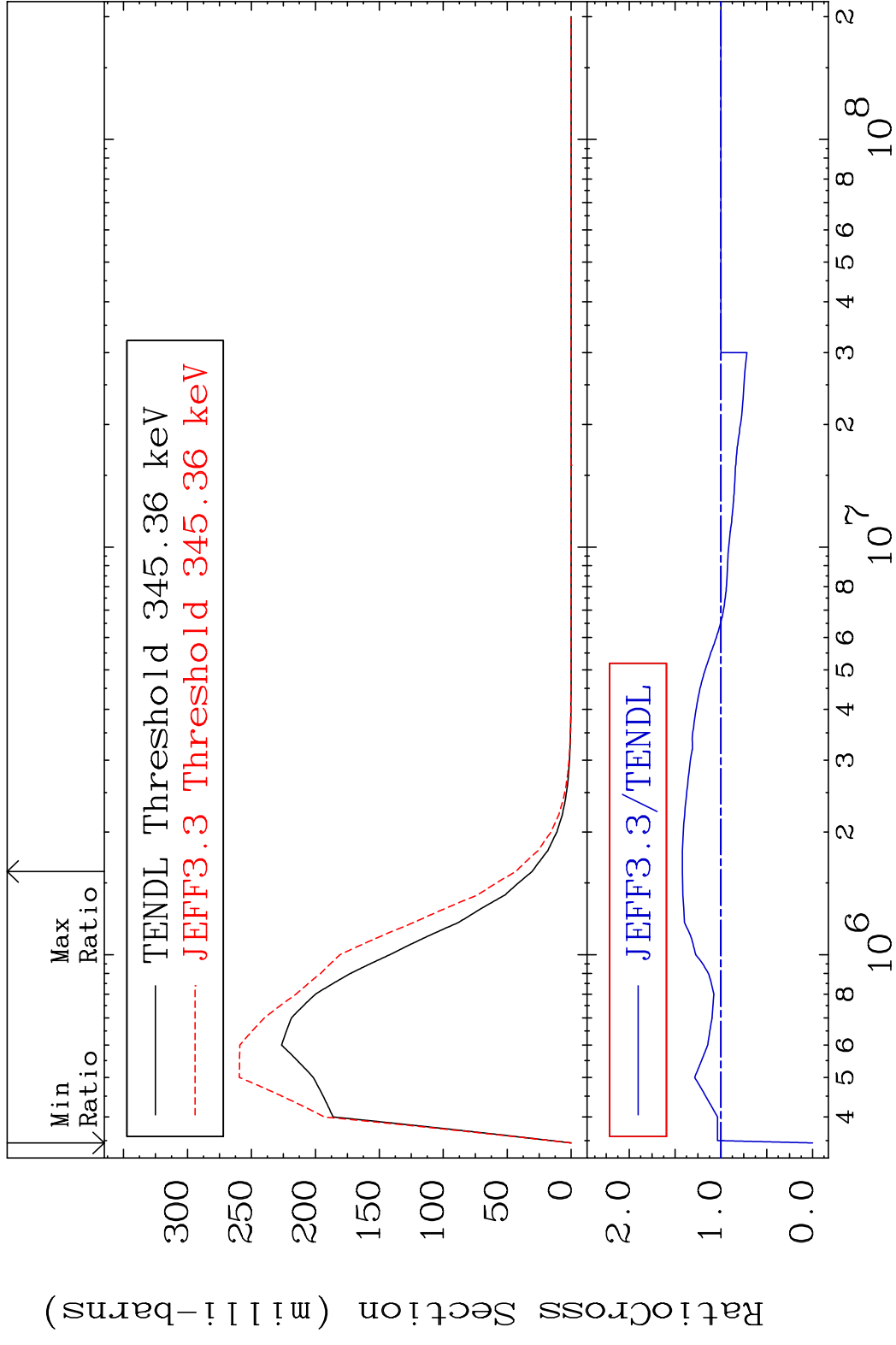
MAT 7125 MT= 51 (n, n') Level 71-Lu-175  
 Cross Section -8.321 To 44.97 %



MAT 7125 MT= 52 (n, n') Level 71-Lu-175  
 Cross Section -10.79 To 45.64 %

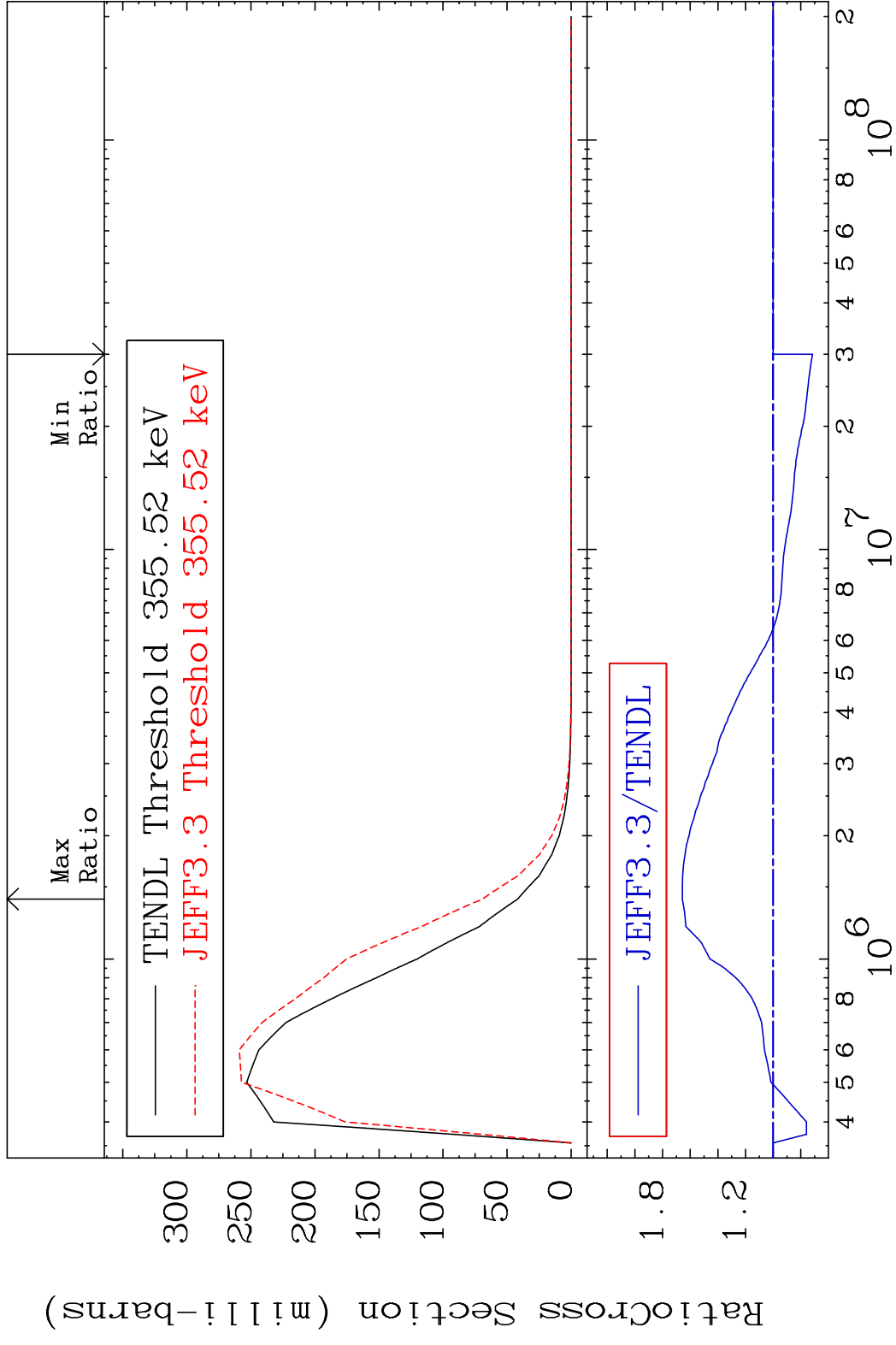


MAT 7125 MT= 53 (n, n') Level 71-Lu-175  
 Cross Section -100.0 To 42.04 %

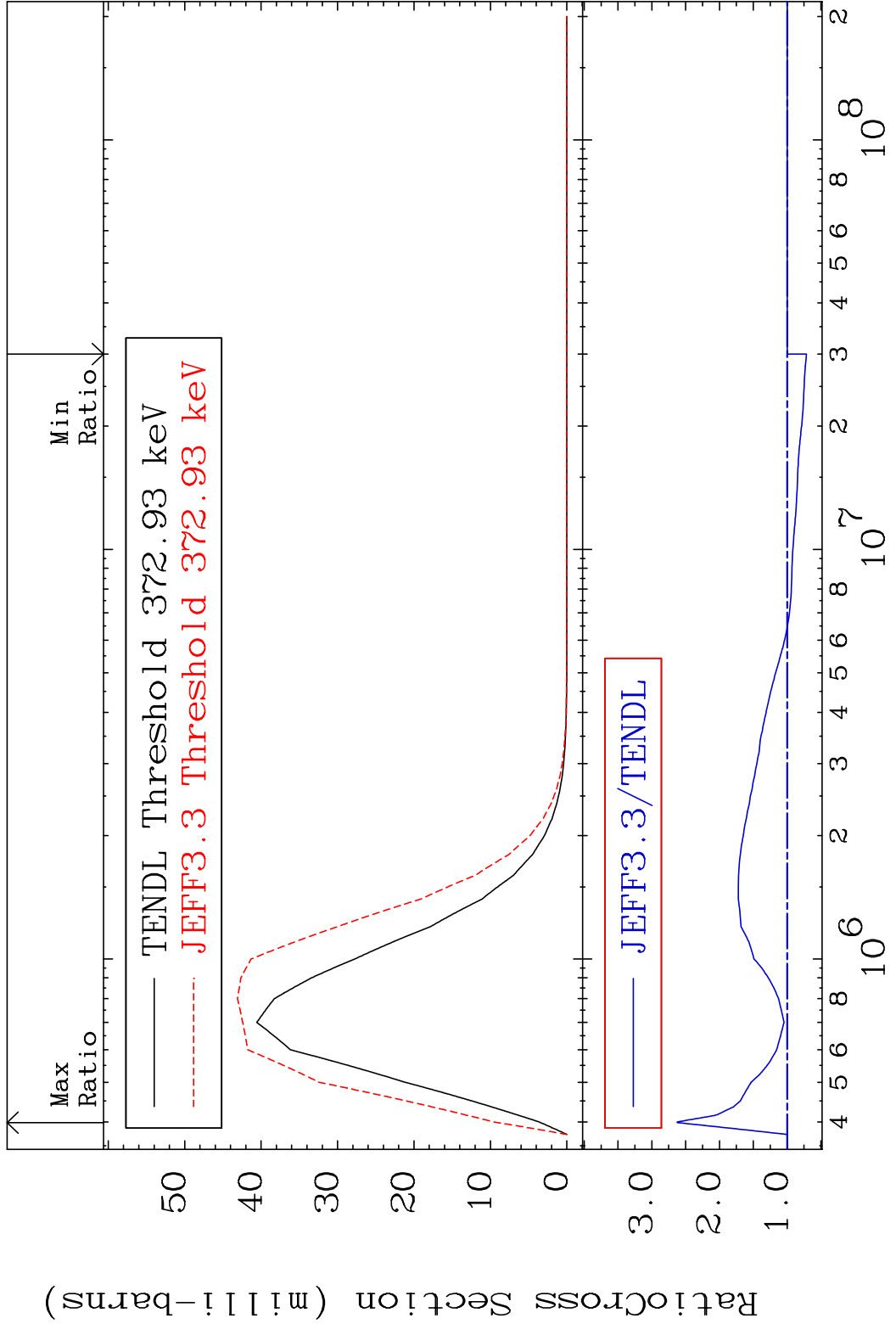




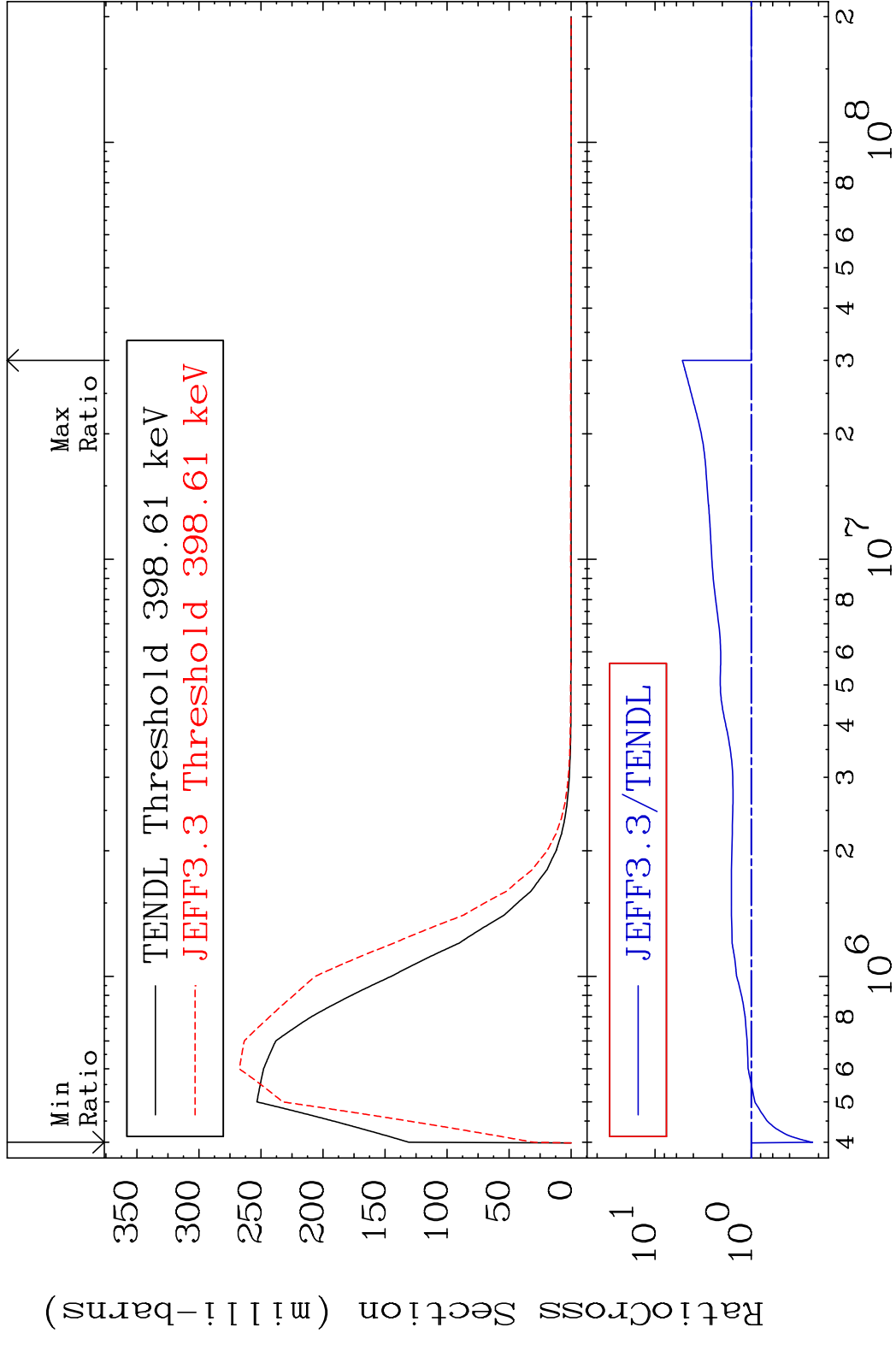
MAT 7125 MT= 54 (n, n') Level 71-Lu-175  
 Cross Section -28.48 To 65.68 %



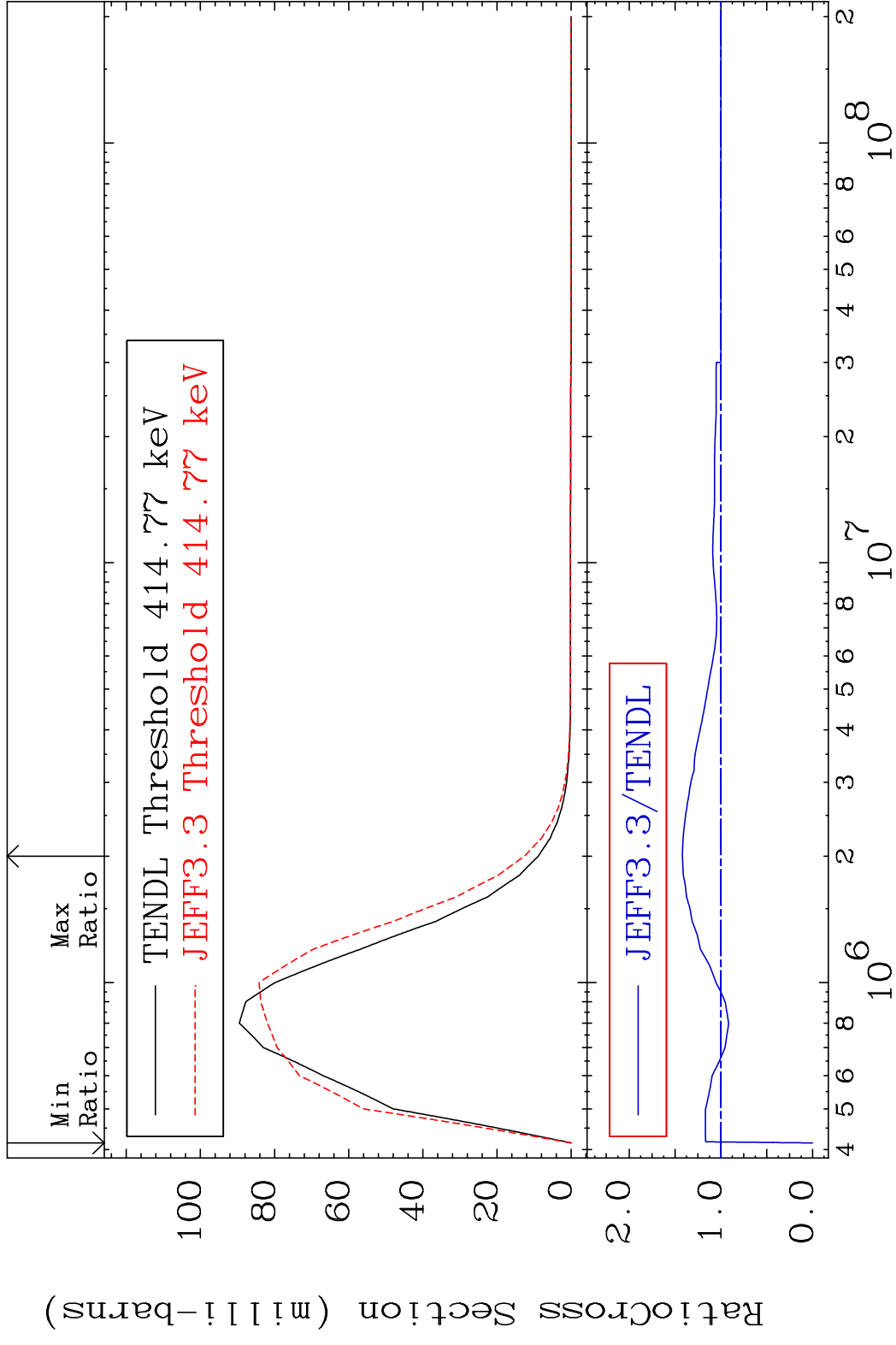
MAT 7125 MT= 55 (n,n') Level 71-Lu-175  
 Cross Section -28.53 To 162.5 %



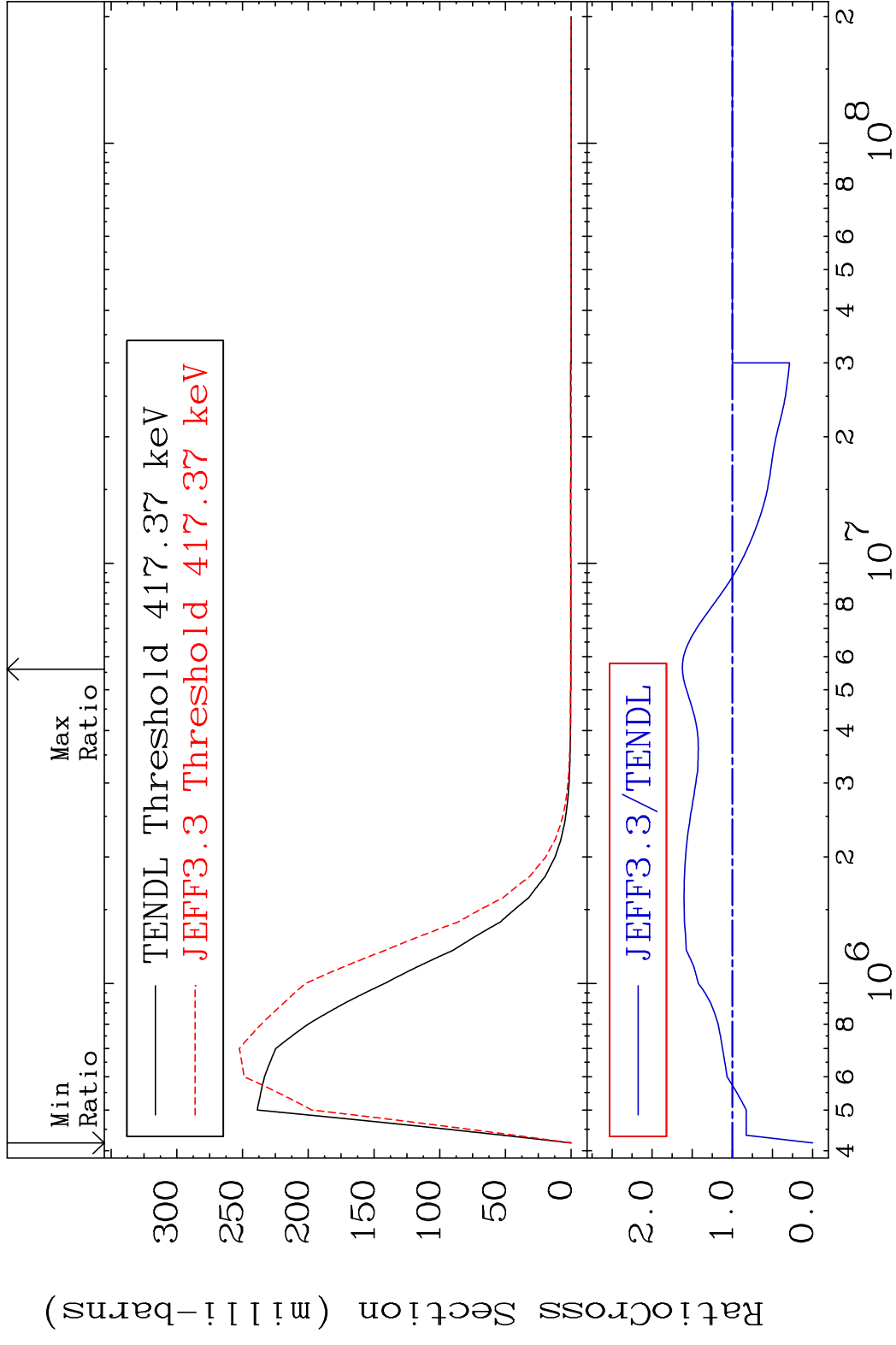
MAT 7125 MT= 56 (n, n') Level 71-Lu-175  
 Cross Section -76.92 To 420.7 %



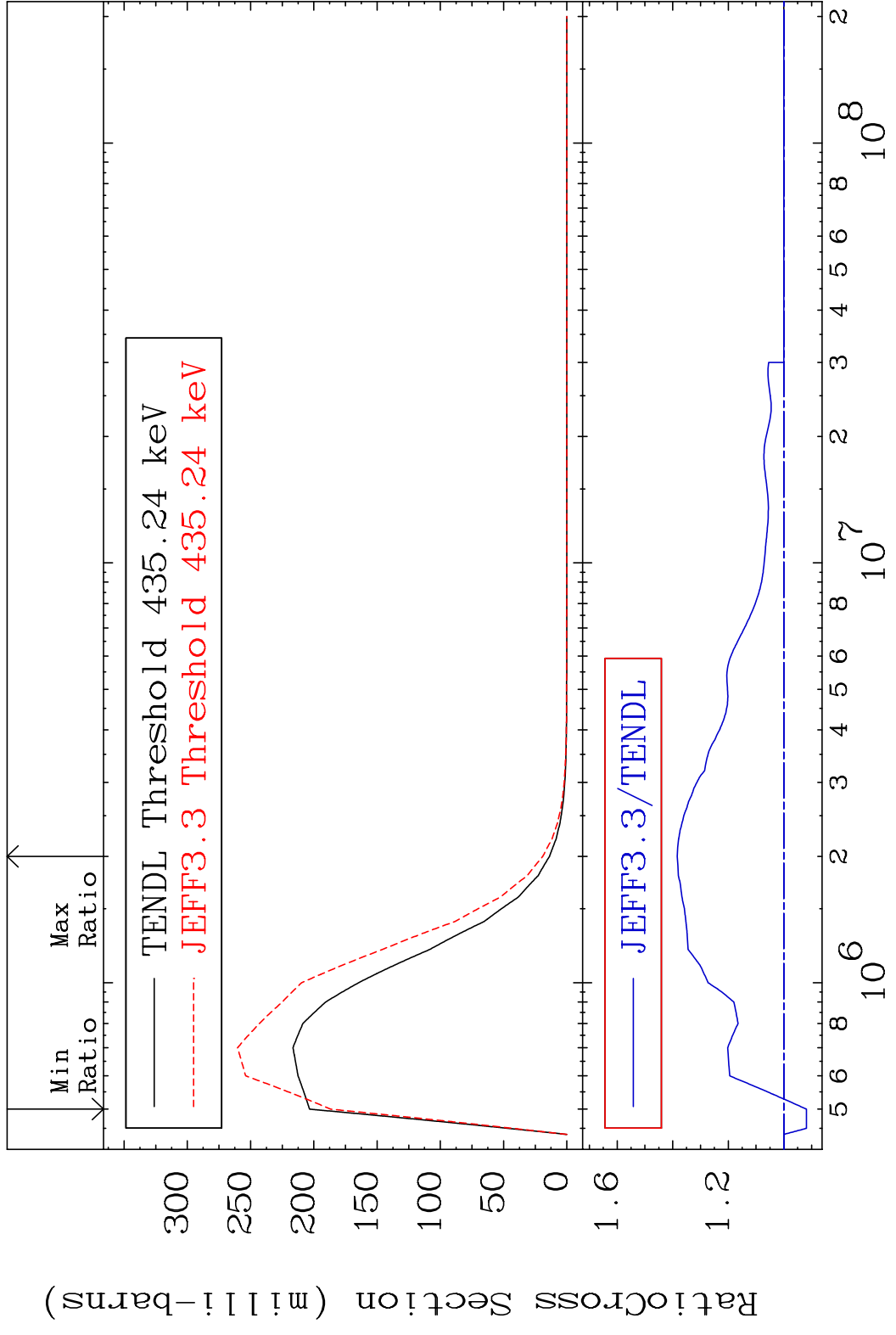
MAT 7125 MT= 57 (n, n') Level 71-Lu-175  
 Cross Section -100.0 To 42.05 %



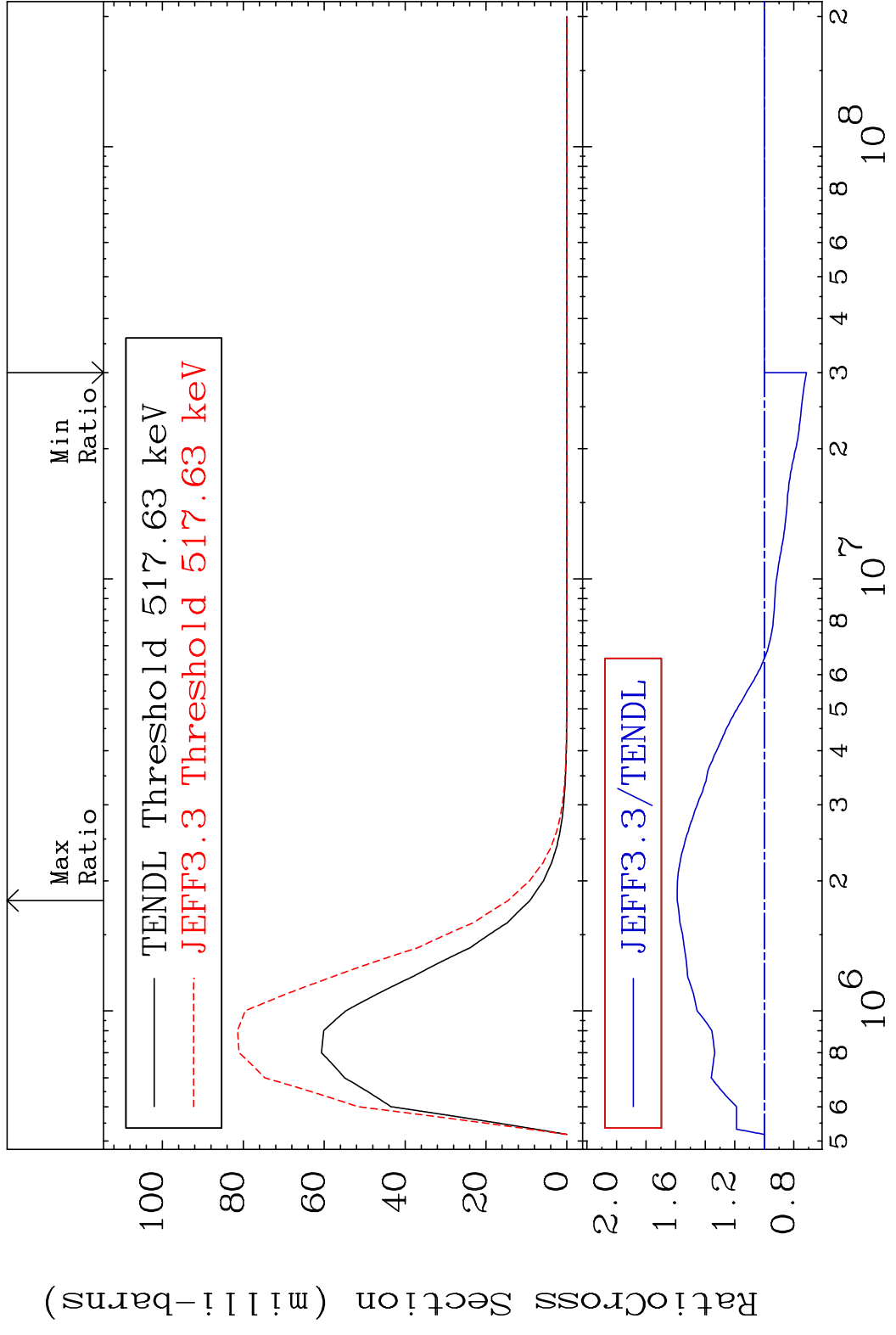
MAT 7125 MT= 58 (n, n') Level 71-Lu-175  
 Cross Section -100.0 To 62.34 %



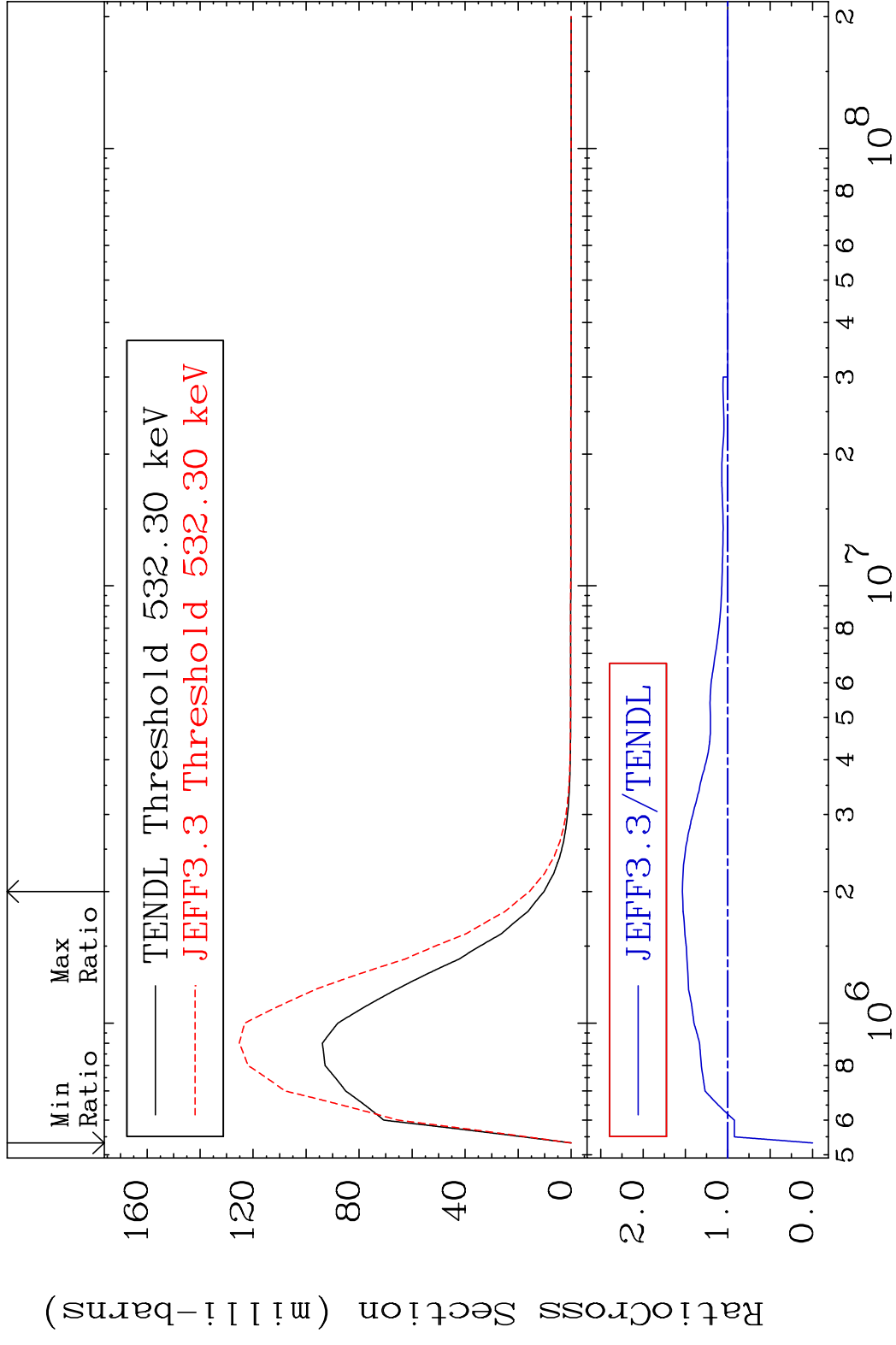
MAT 7125 MT= 59 (n, n') Level 71-Lu-175  
 Cross Section -8.133 To 38.39 %



MAT 7125 MT= 60 (n, n') Level 71-Lu-175  
 Cross Section -28.50 To 58.95 %

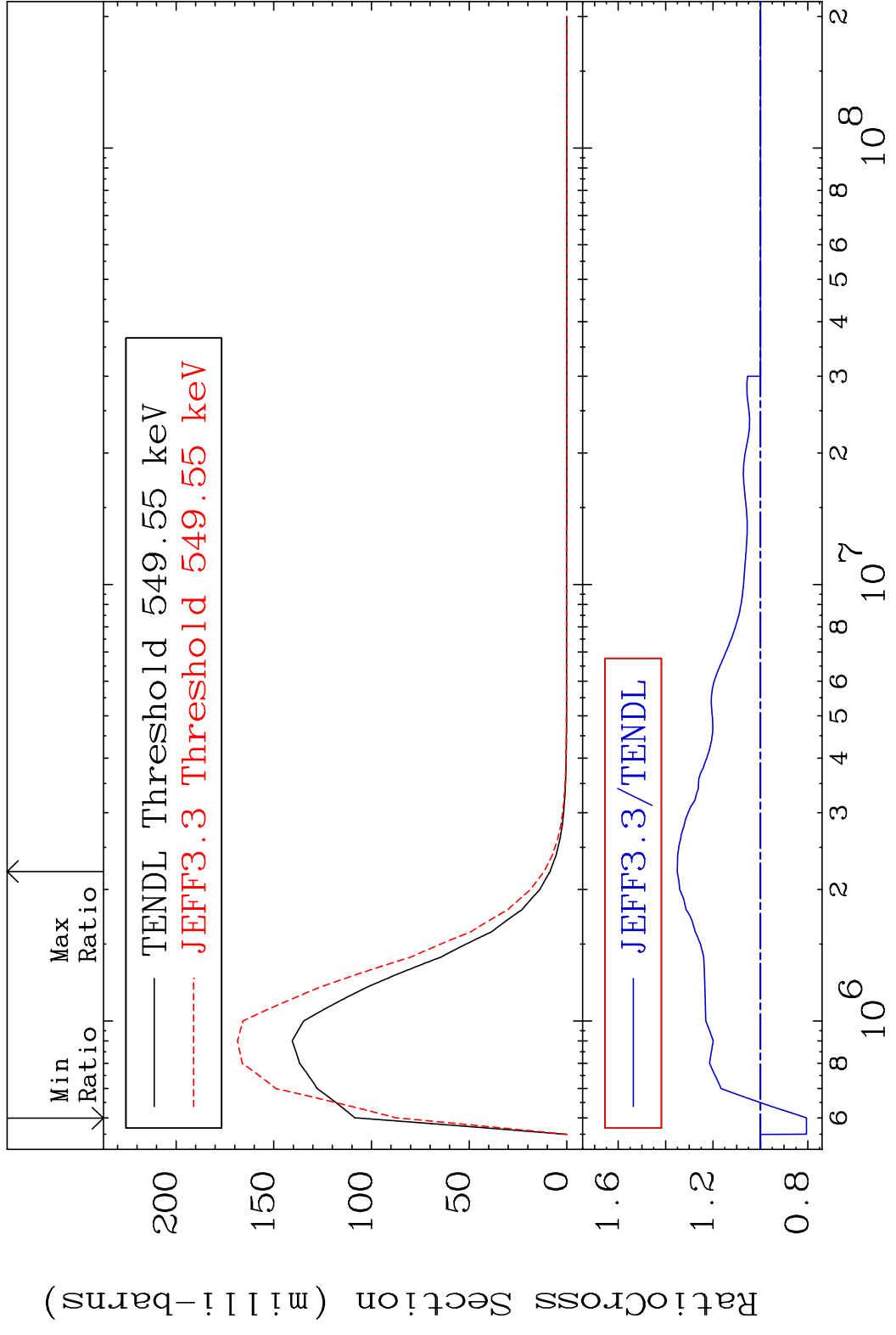


MAT 7125 MT= 61 (n, n') Level 71-Lu-175  
 Cross Section -100.0 To 53.67 %

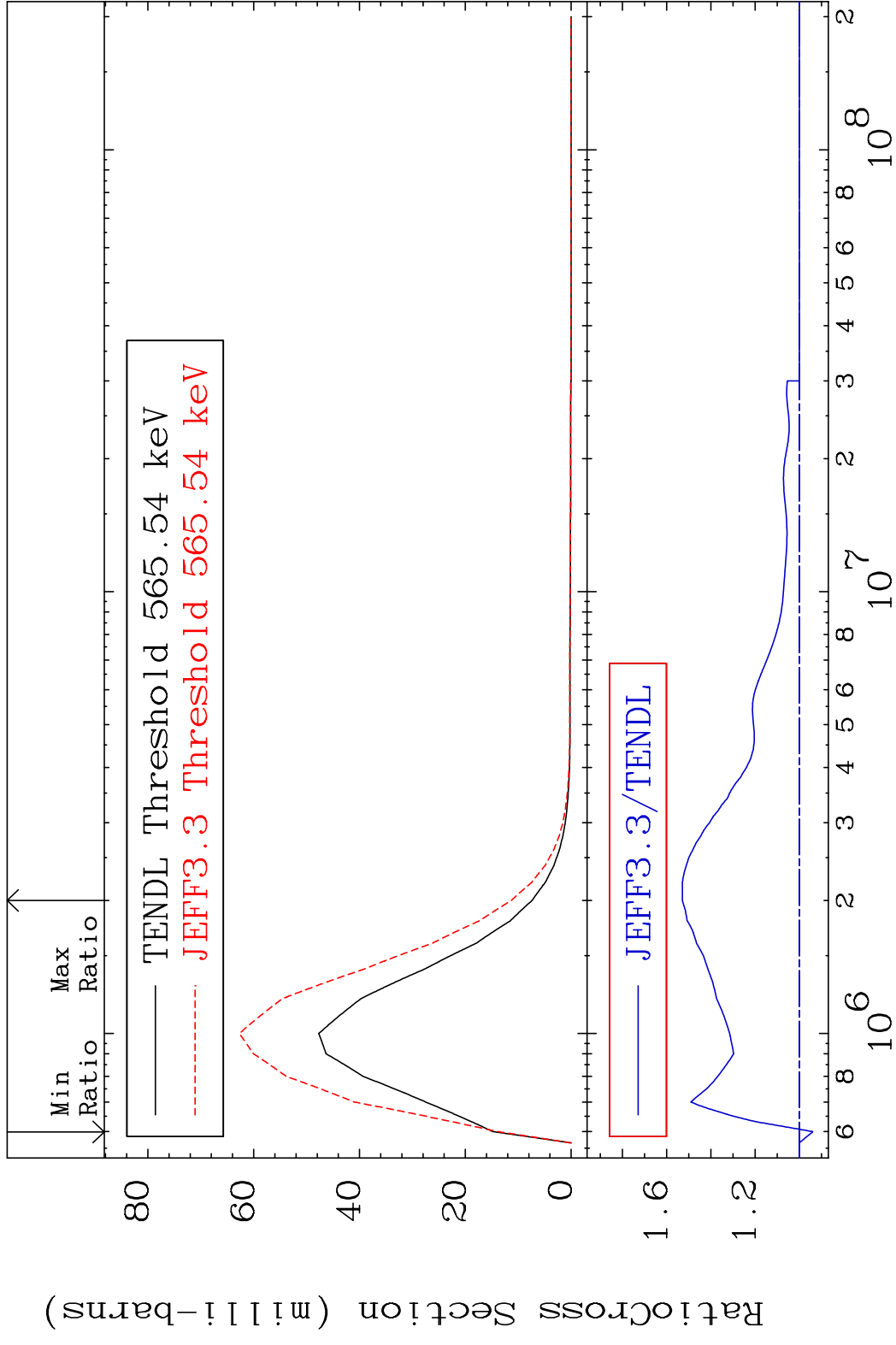




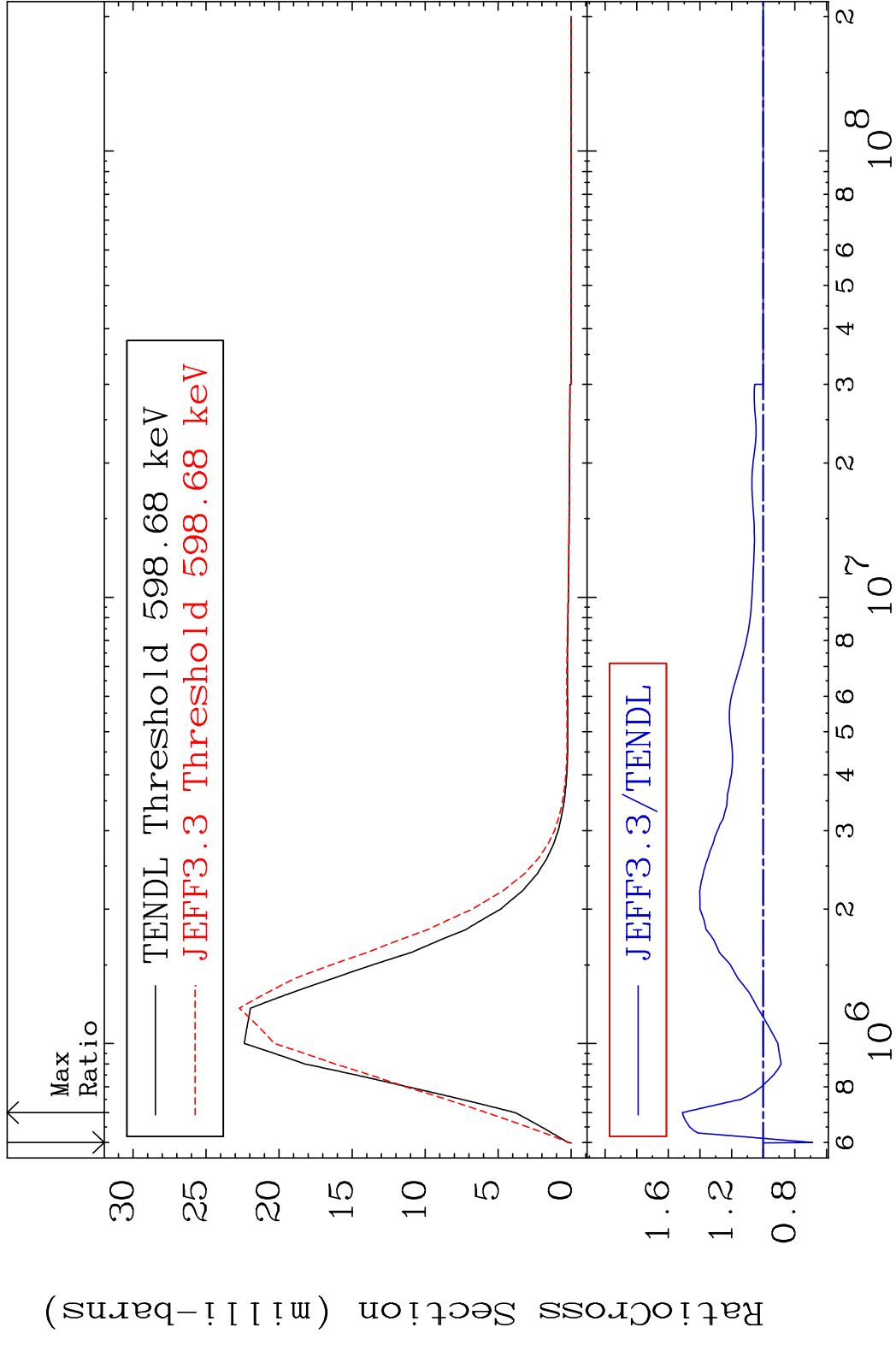
MAT 7125 MT= 62 (n, n') Level 71-Lu-175  
 Cross Section -19.42 To 35.12 %



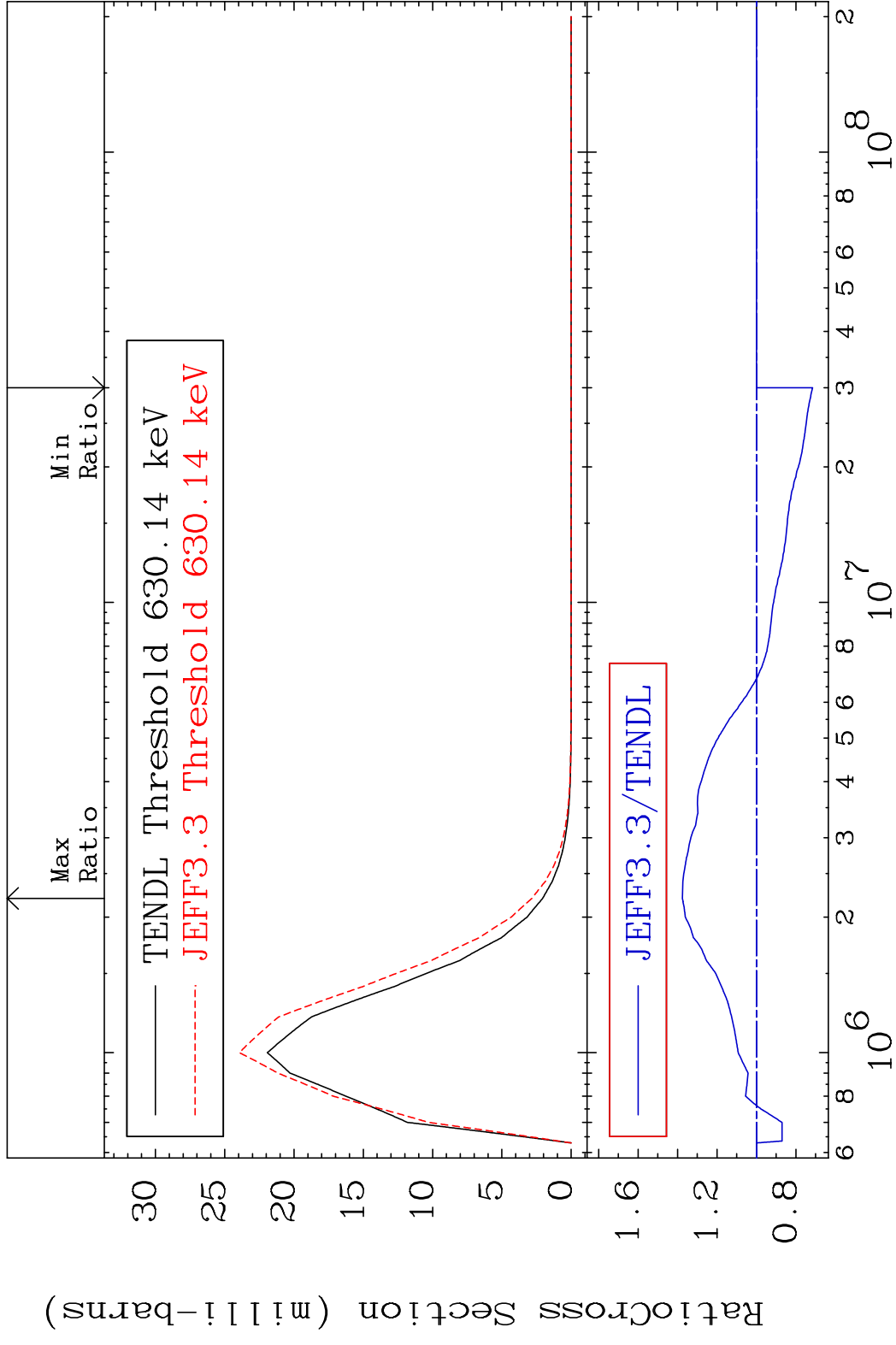
MAT 7125 MT= 63 (n, n') Level 71-Lu-175  
 Cross Section -5.988 To 52.87 %



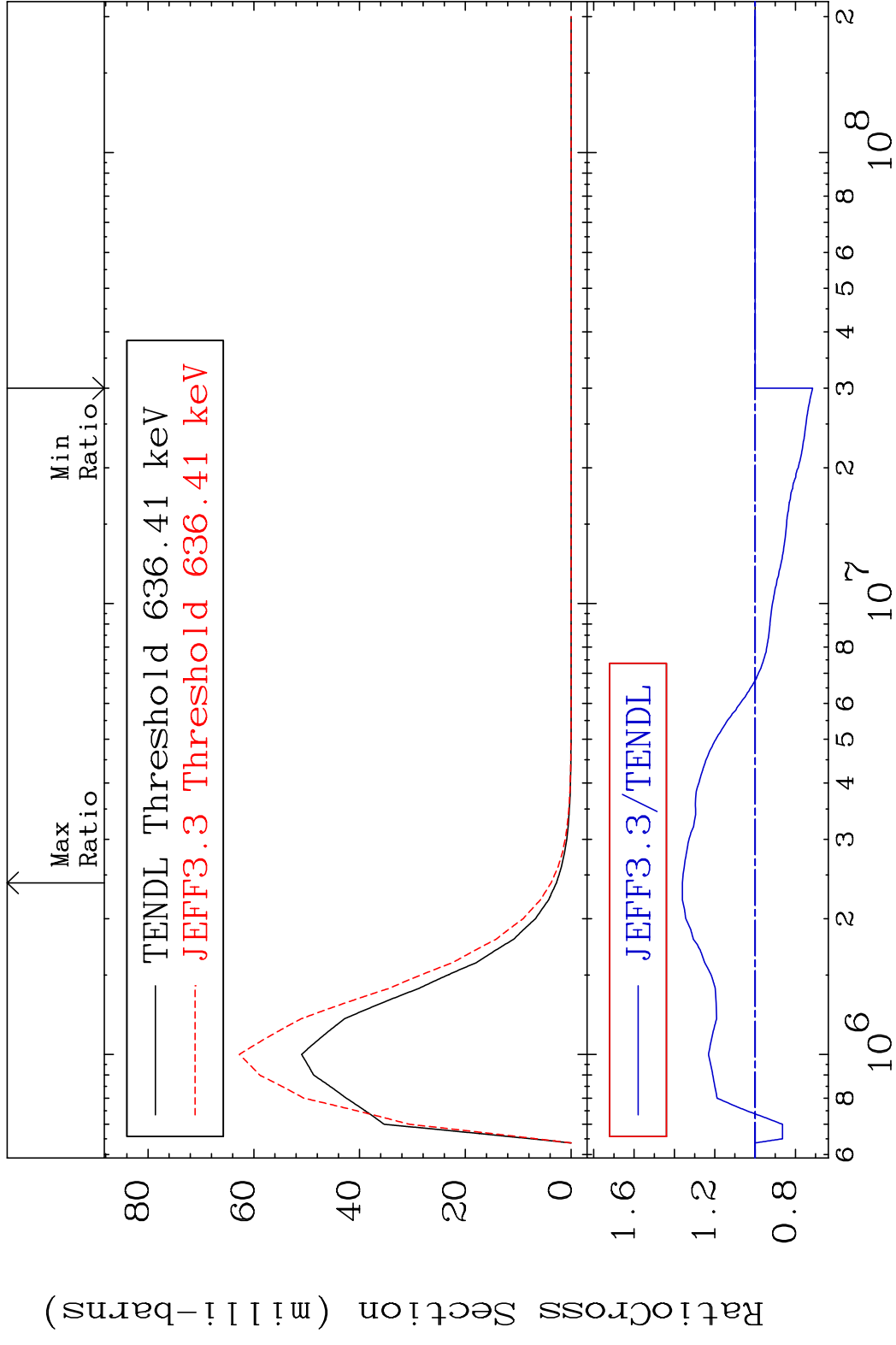
MAT 7125 MT= 64 (n, n') Level 71-Lu-175  
 Cross Section -31.20 To 51.13 %



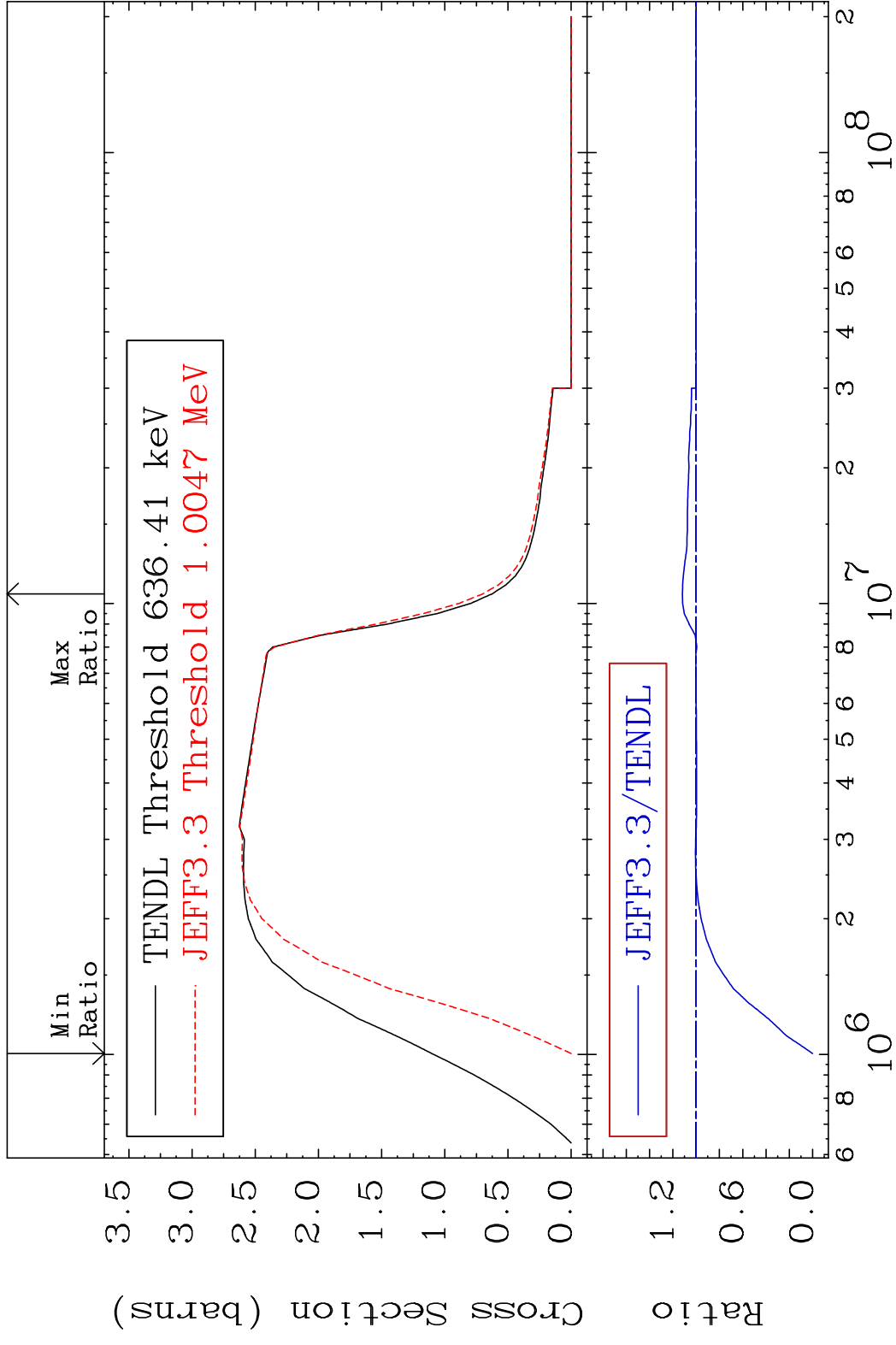
MAT 7125 MT= 65 (n, n') Level 71-Lu-175  
 Cross Section -28.47 To 37.57 %



MAT 7125 MT= 66 (n, n') Level 71-Lu-175  
 Cross Section -28.46 To 36.06 %



MAT 7125 (n, n') Continuum 71-Lu-175  
 Cross Section -100.0 To 11.85 %

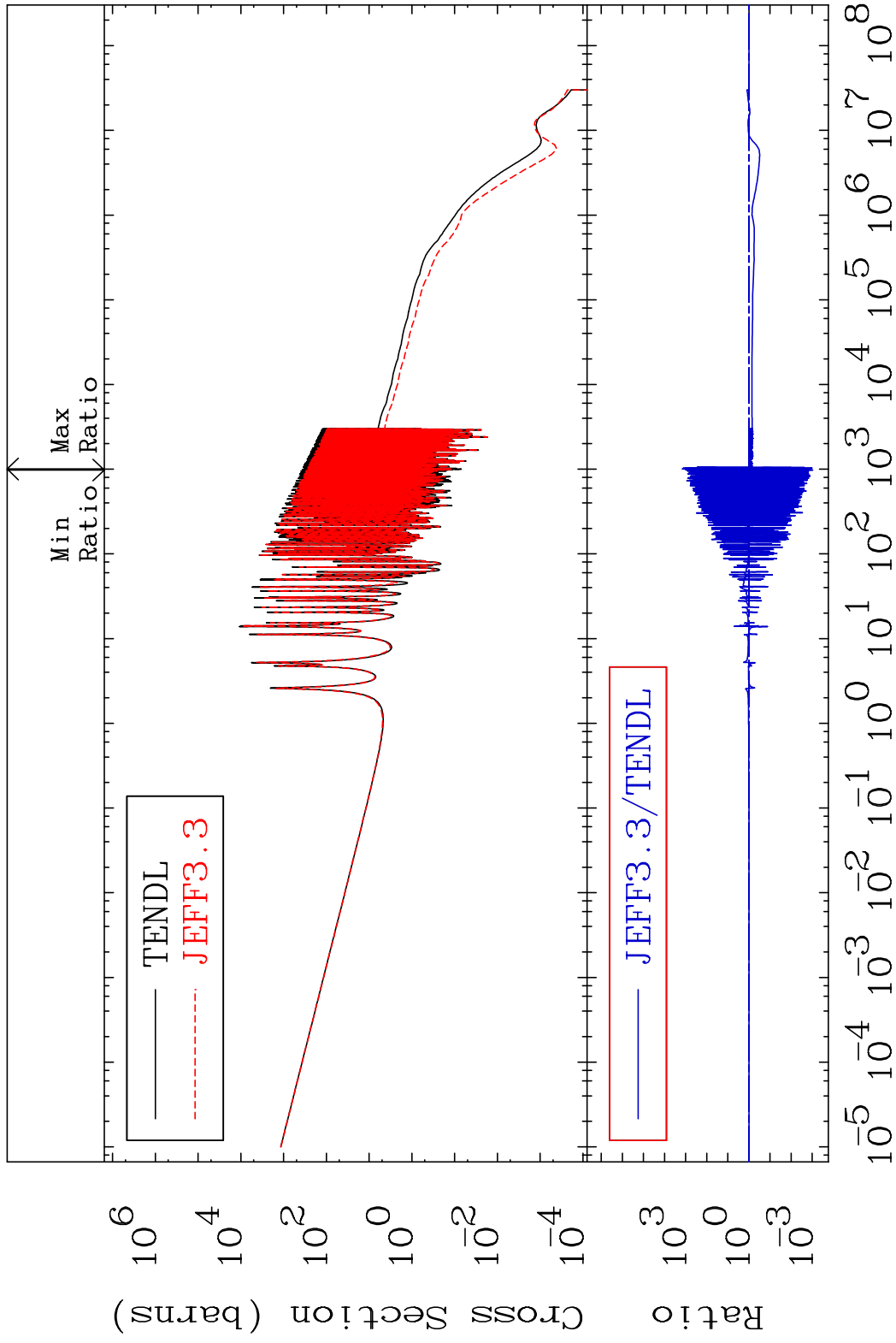


MAT 7125

(n,  $\gamma$ )

71-Lu-175

Cross Section -99.90 To 9999. %



38

Incident Energy (eV)

71-Lu-175

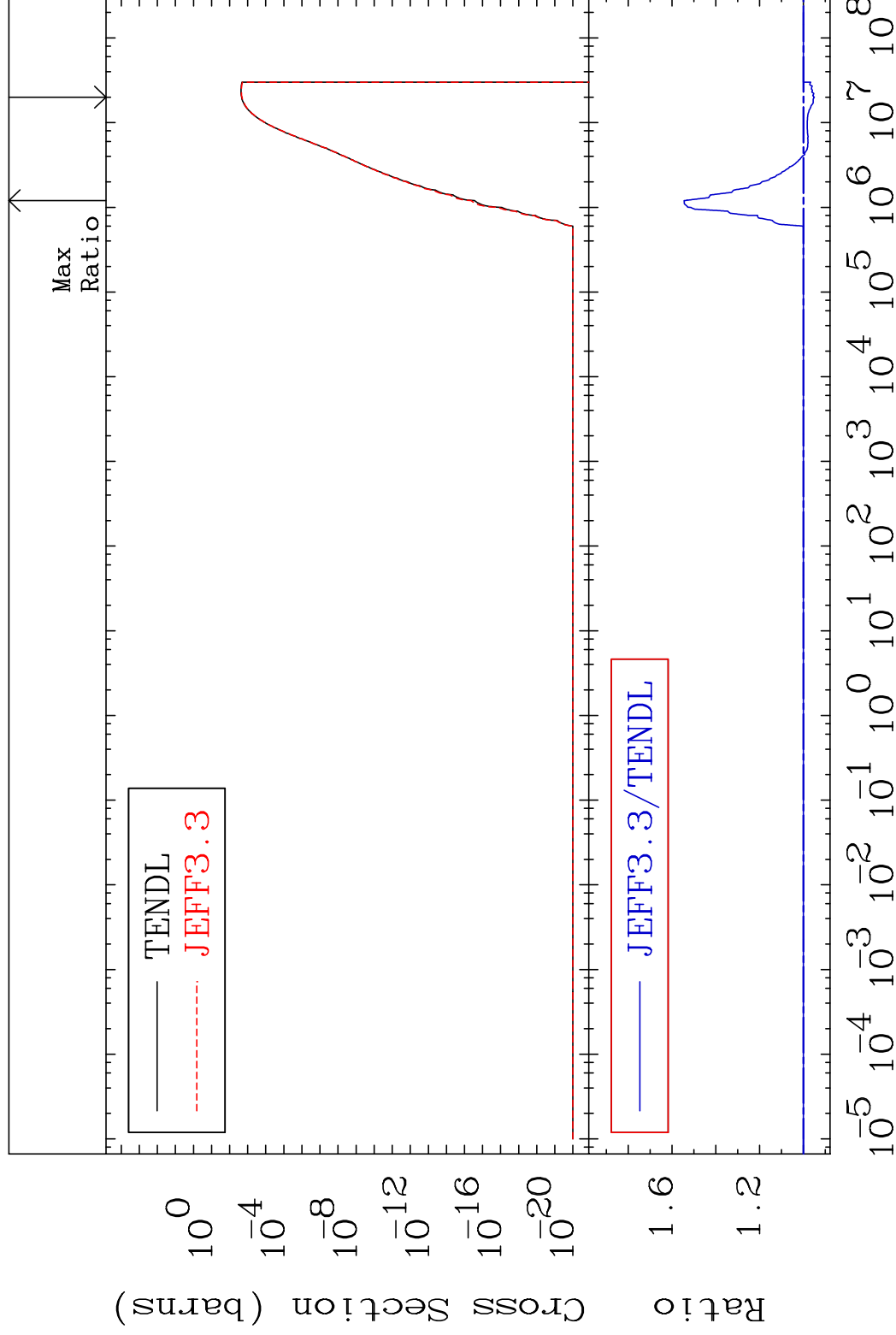
MAT 7125

(n, p)

71-Lu-175

Cross Section

-4.949 To 54.48 %



39

Incident Energy (eV)

71-Lu-175

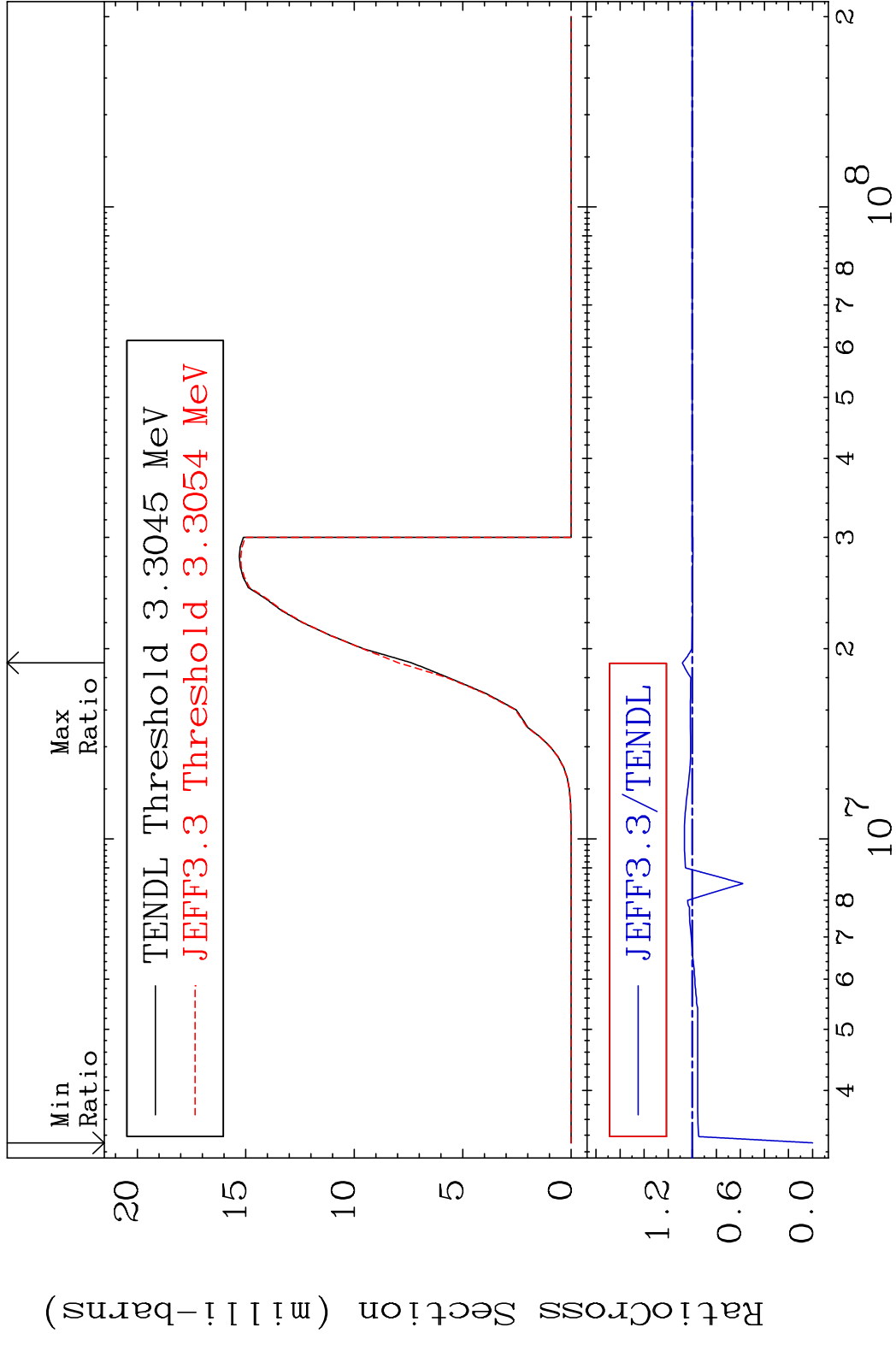


MAT 7125

71-Lu-175

(n,d)

Cross Section -100.0 To 8.205 %



40

Incident Energy (eV)

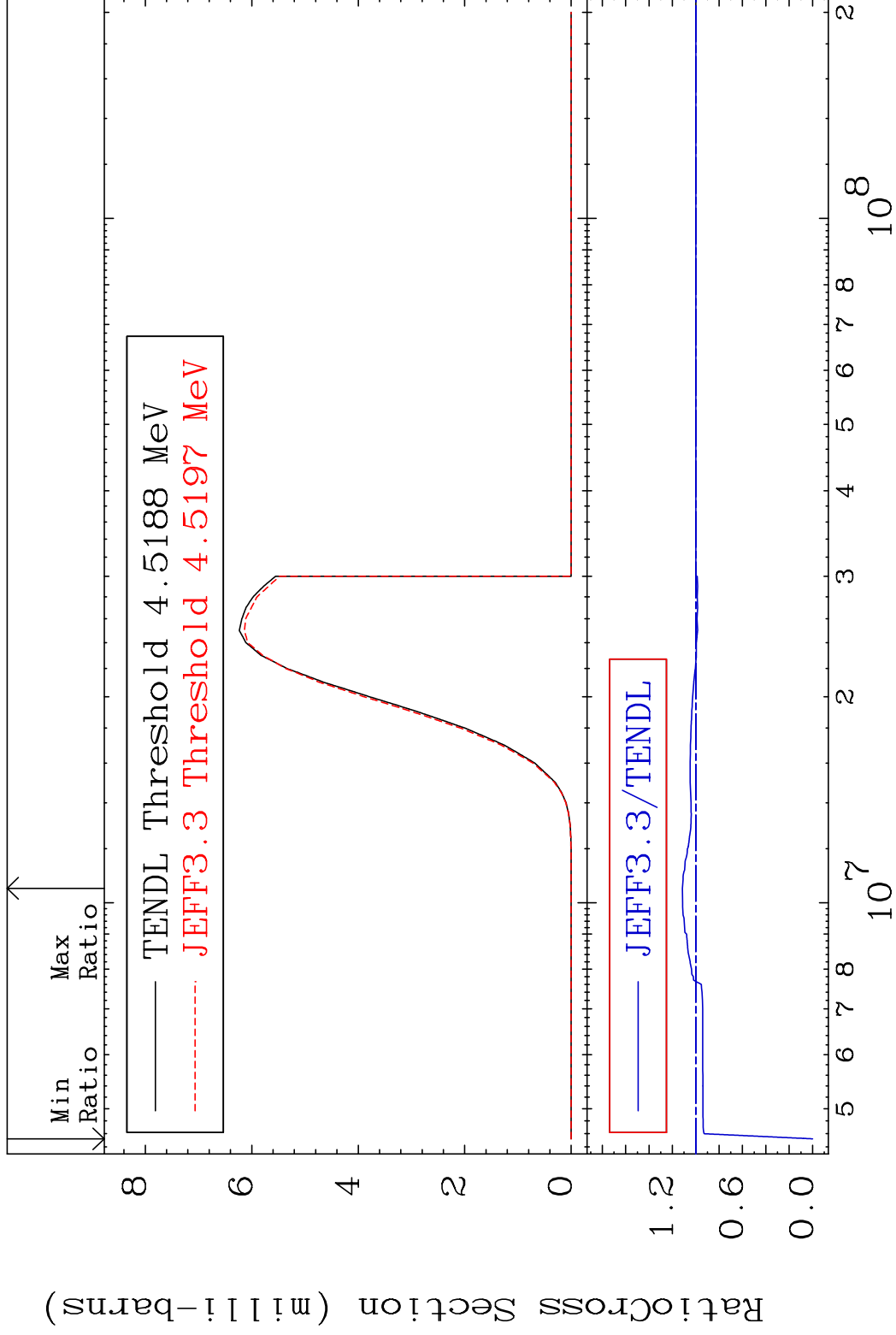
71-Lu-175

MAT 7125

(n, t)

71-Lu-175

Cross Section -100.0 To 11.47 %



41

Incident Energy (eV)

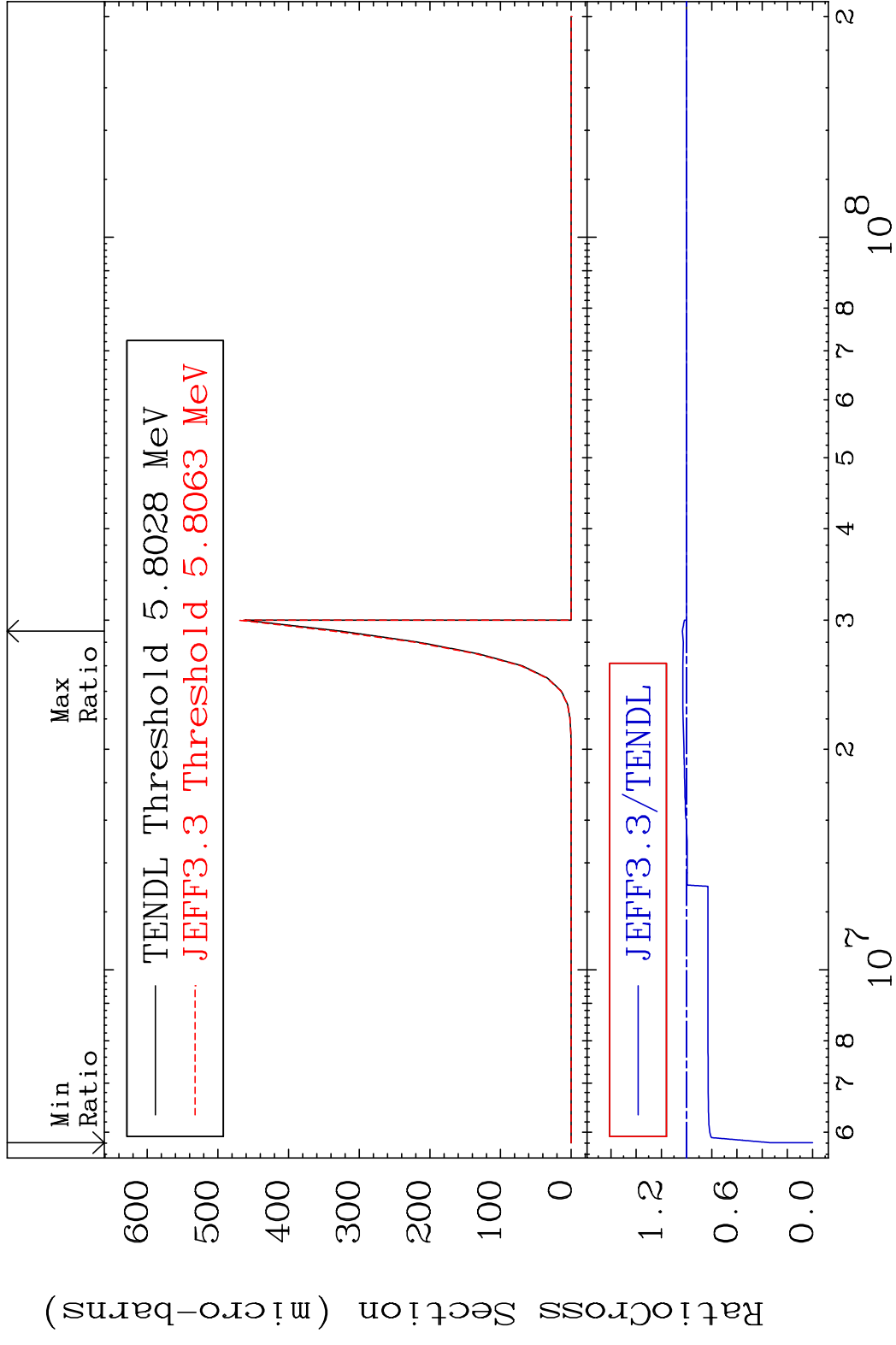
71-Lu-175

MAT 7125

(n, He-3)

71-Lu-175

Cross Section -100.0 To 3.315 %

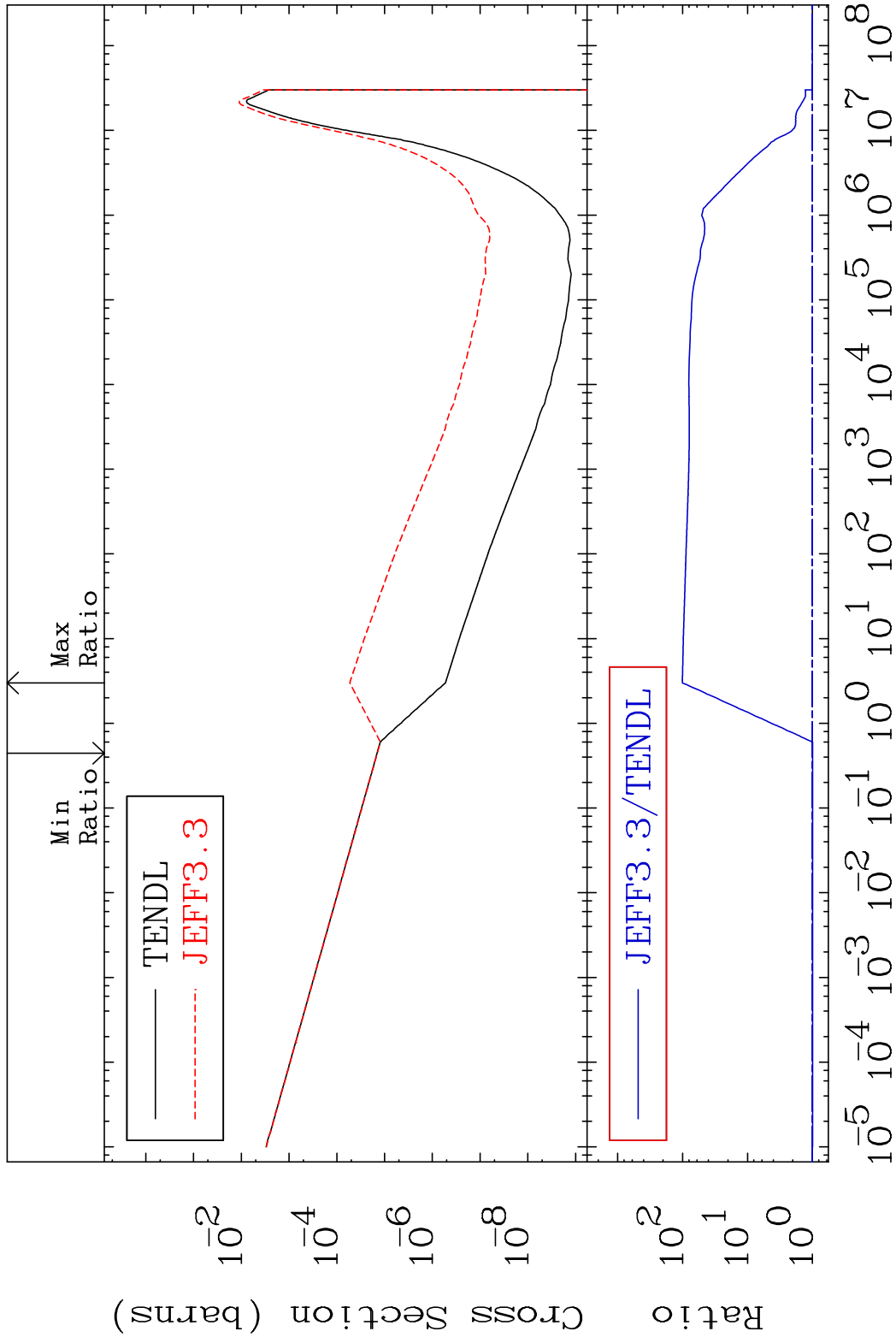


MAT 7125

(n,  $\alpha$ )

71-Lu-175

Cross Section -0.529 To 9995. %



43

Incident Energy (eV)

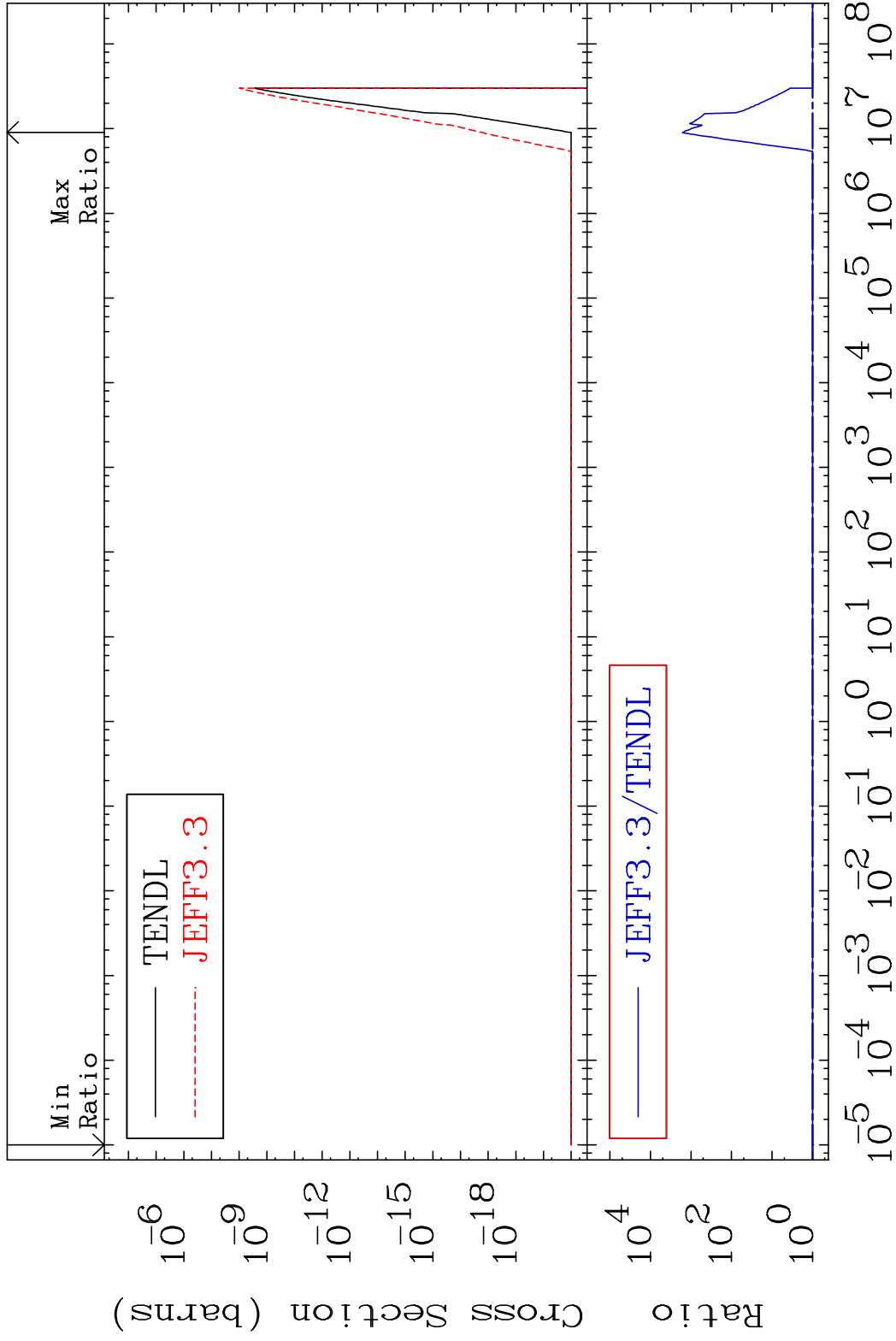
71-Lu-175

MAT 7125

(n,2α)

71-Lu-175

Cross Section 0.000 To 9999. %



44

Incident Energy (eV)

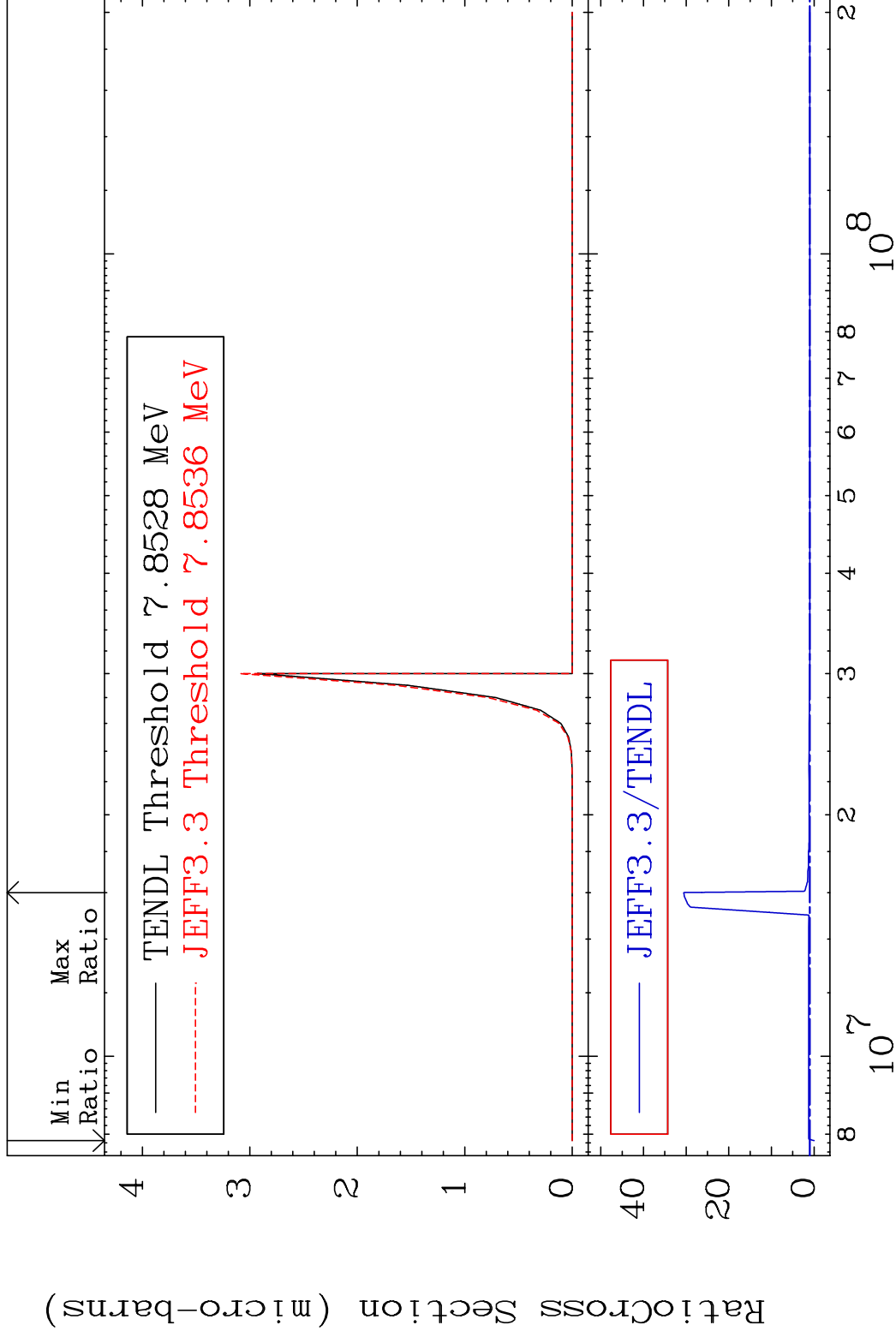
71-Lu-175

MAT 7125

(n,2p)

71-Lu-175

Cross Section -100.0 To 2958. %



45

Incident Energy (eV)

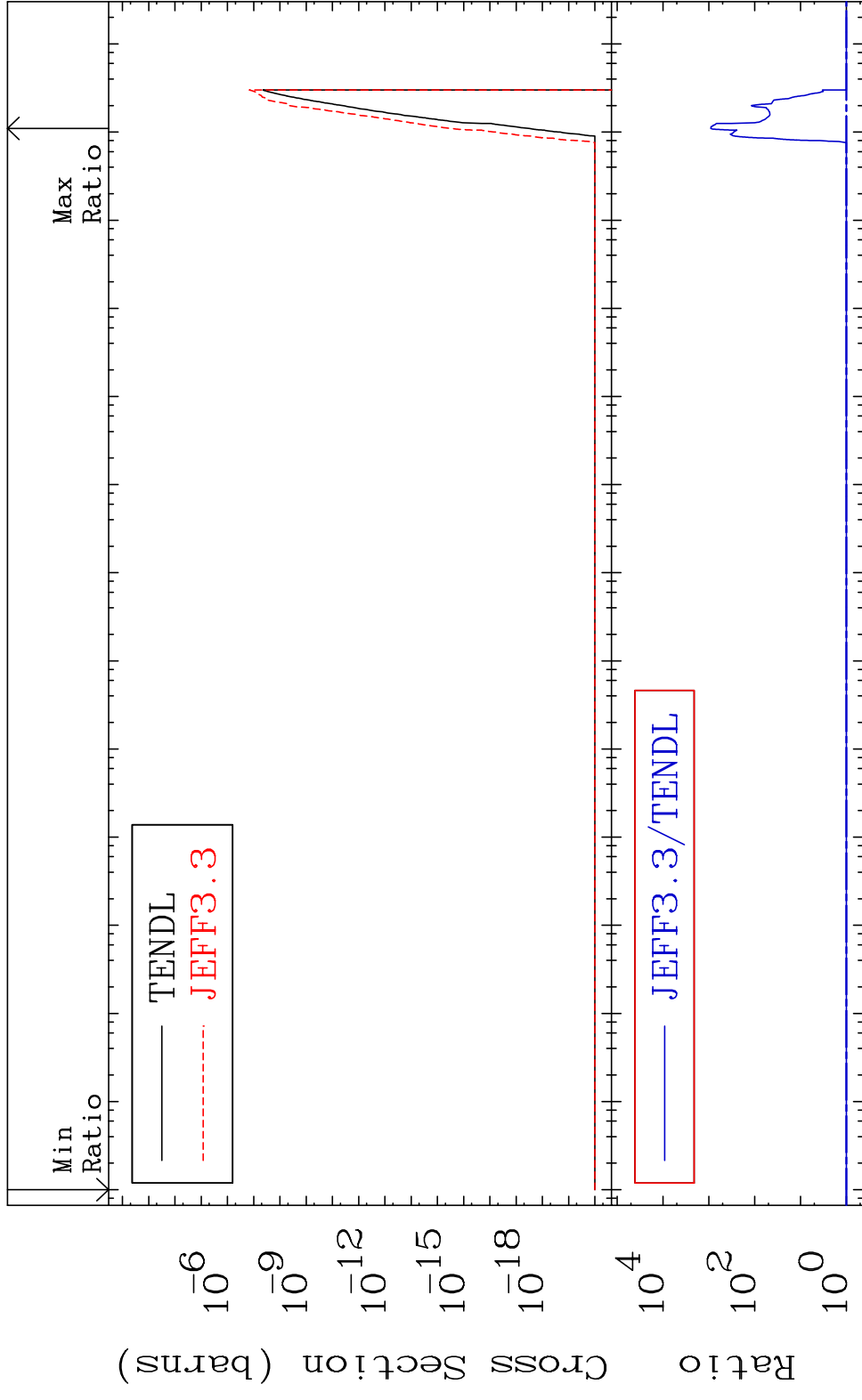
71-Lu-175

MAT 7125

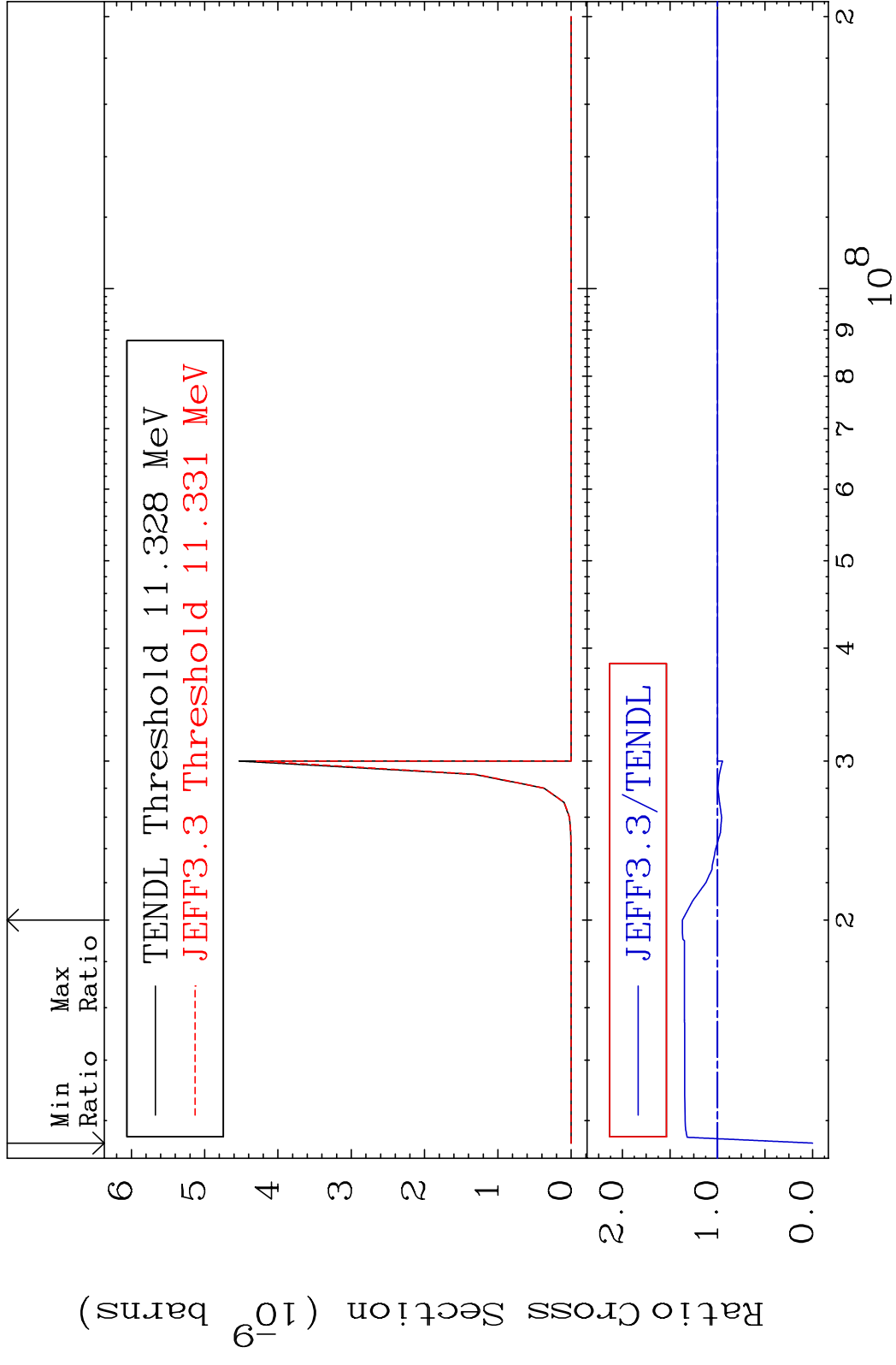
(n,p)  $\alpha$

71-Lu-175

Cross Section 0.000 To 9999. %



MAT 7125 (n,p) d 71-Lu-175  
 Cross Section -100.0 To 36.99 %



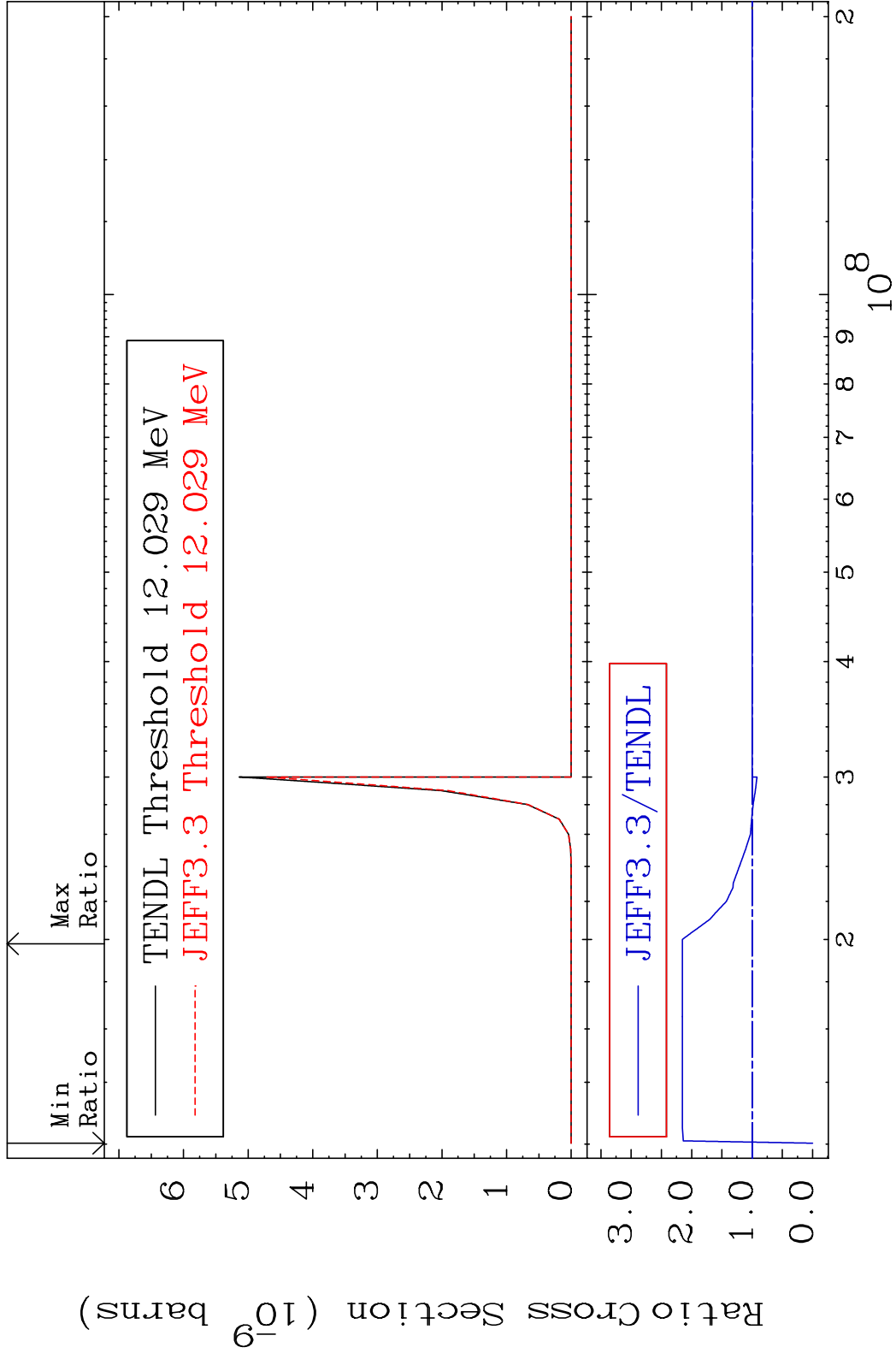


MAT 7125

(n,p) t

71-Lu-175

Cross Section -100.0 To 115.4 %

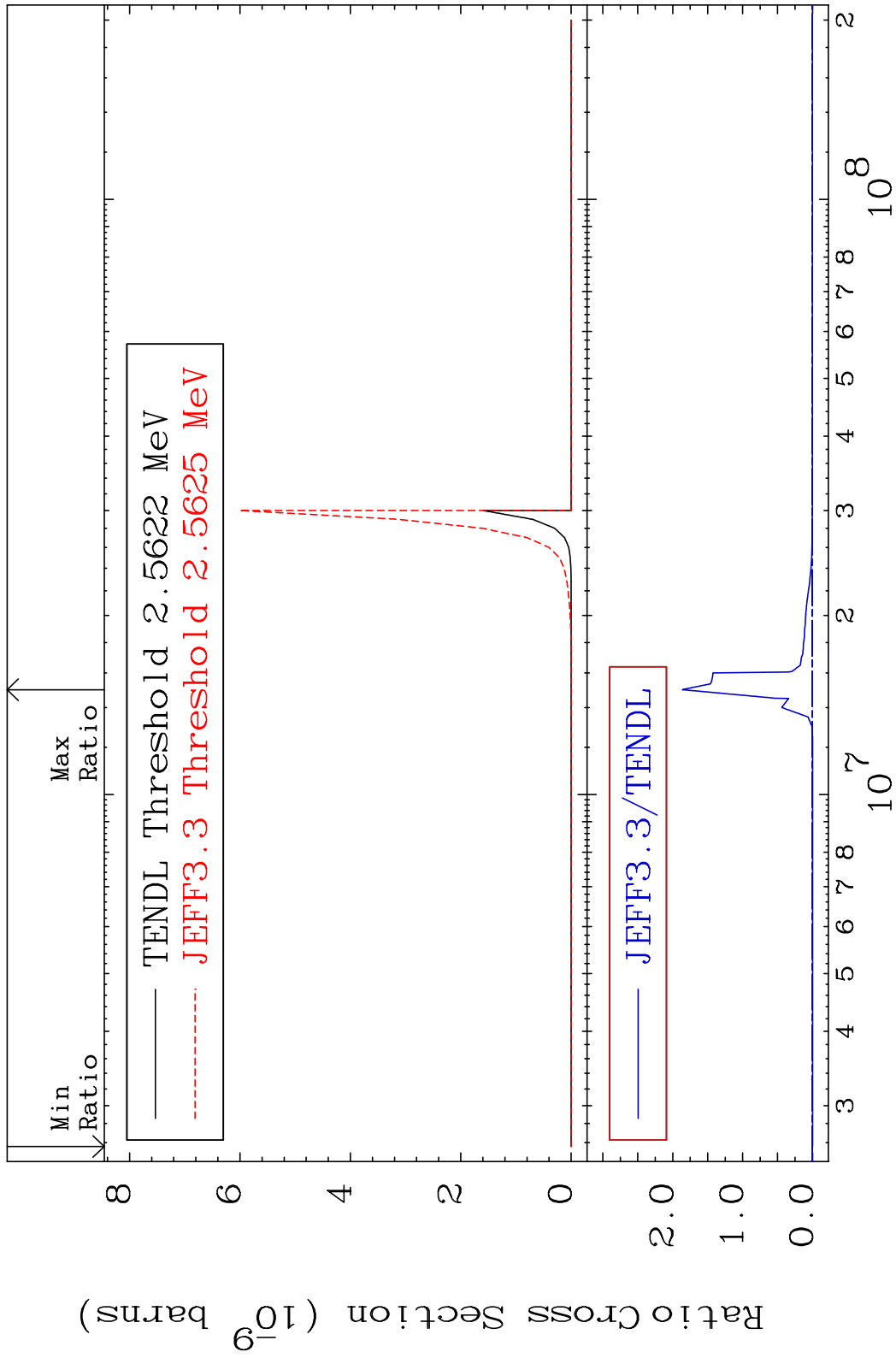


MAT 7125

(n,d)  $\alpha$

71-Lu-175

Cross Section -100.0 To 9999. %



49

Incident Energy (eV)

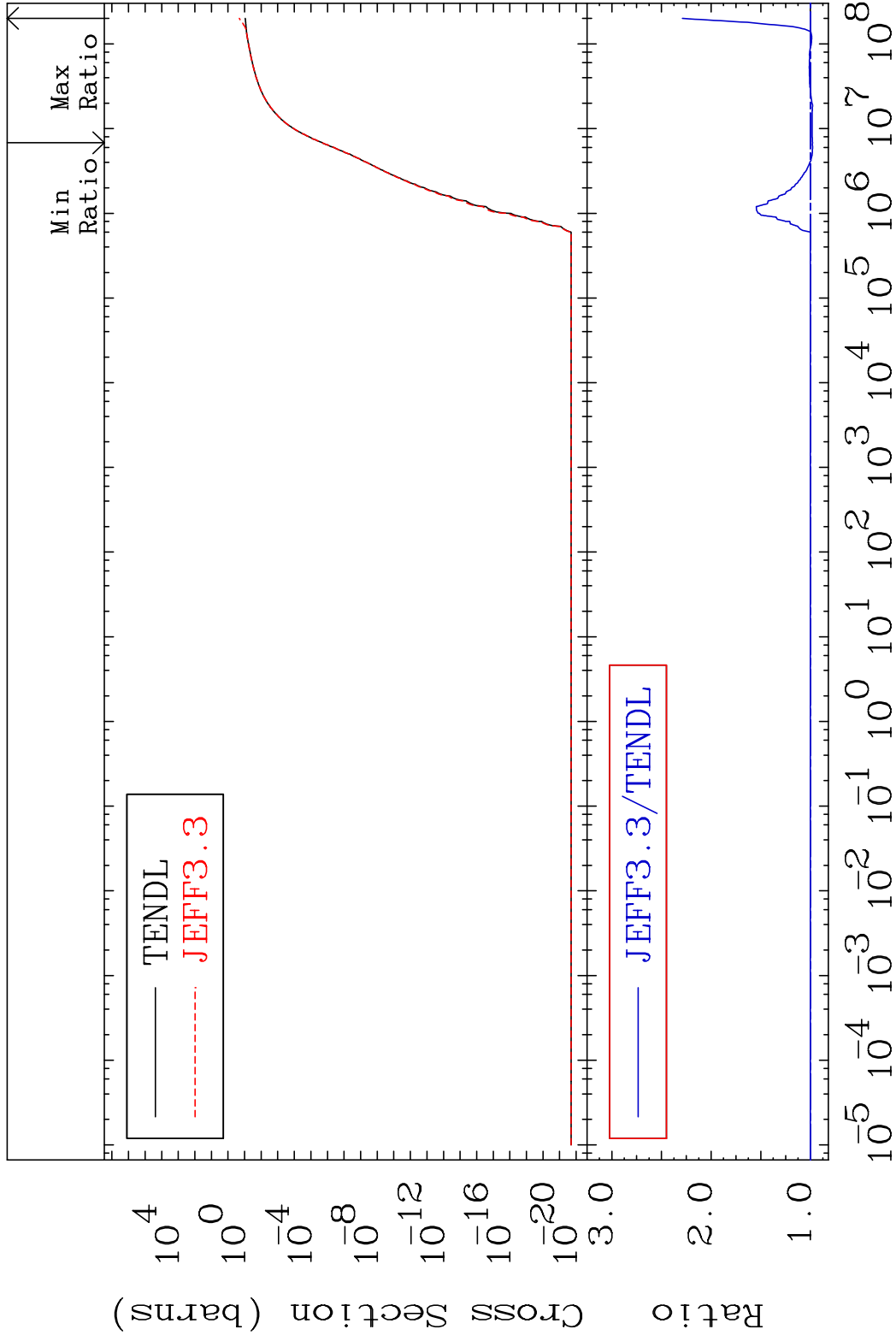
71-Lu-175

MAT 7125

Hydrogen Production

71-Lu-175

Cross Section -2.150 To 129.0 %

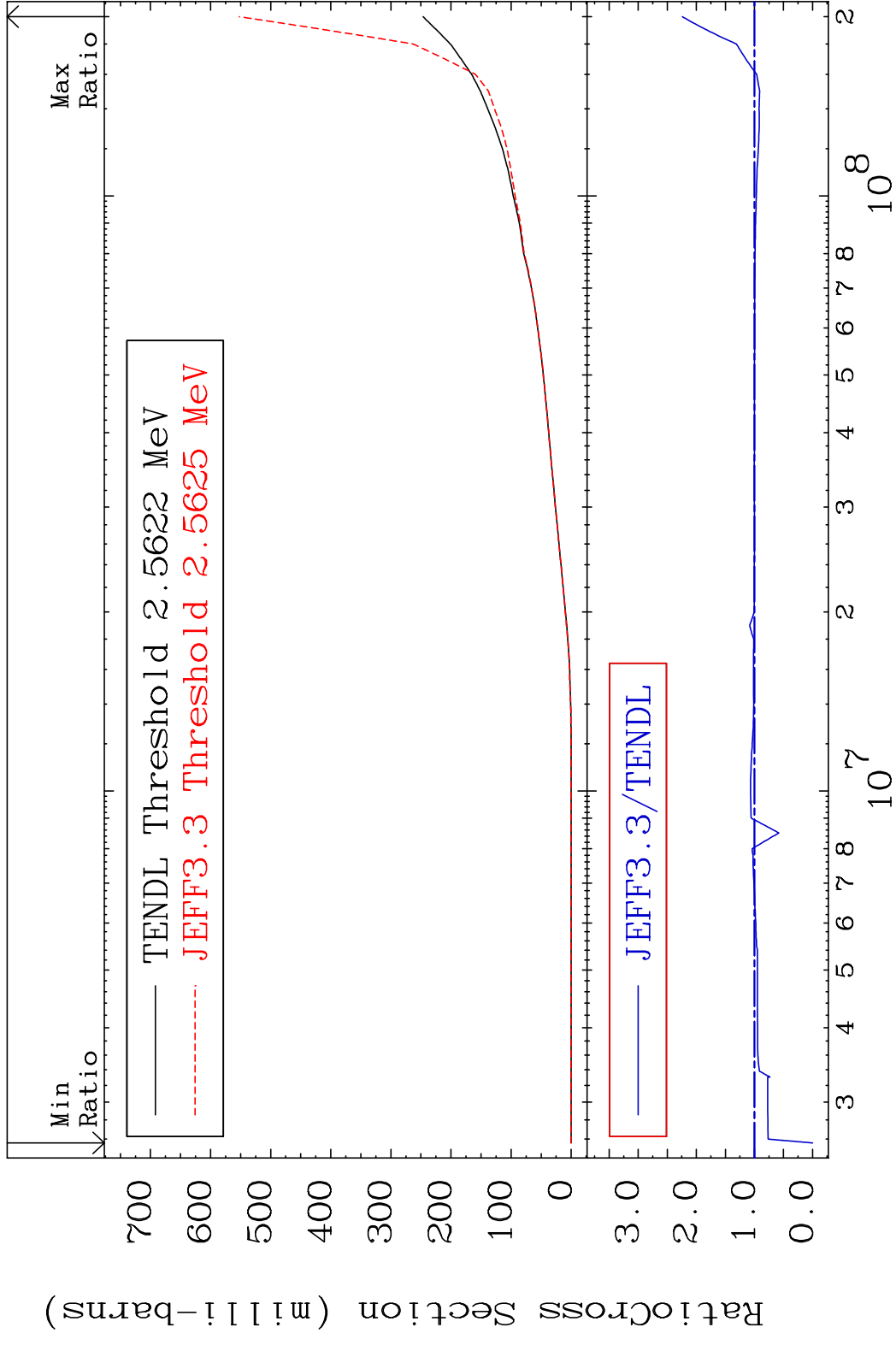


50

Incident Energy (eV)

71-Lu-175

MAT 7125 Deuterium Production 71-Lu-175  
 Cross Section -100.0 To 124.0 %

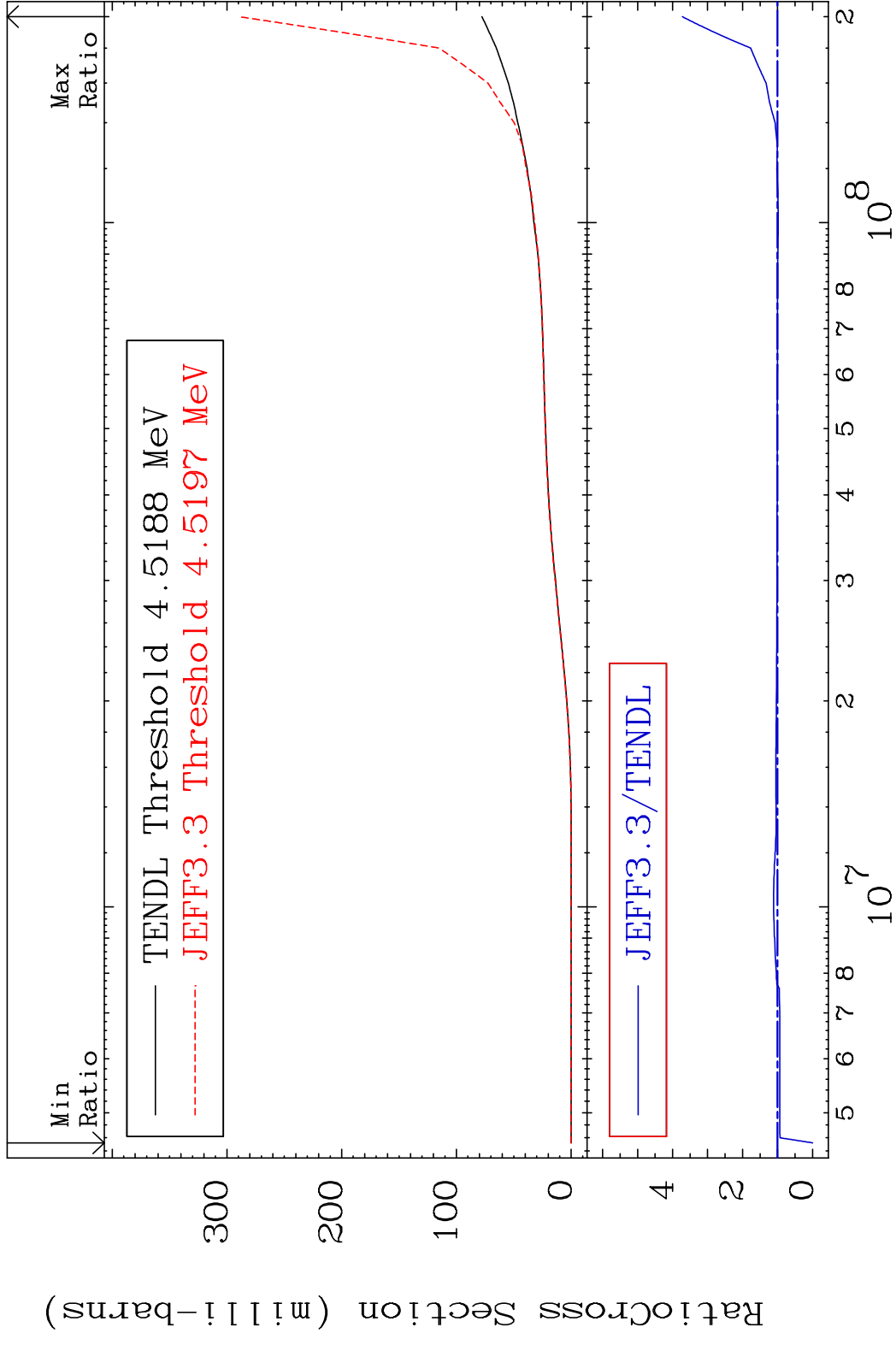


MAT 7125

Tritium Production

71-Lu-175

Cross Section -100.0 To 272.1 %

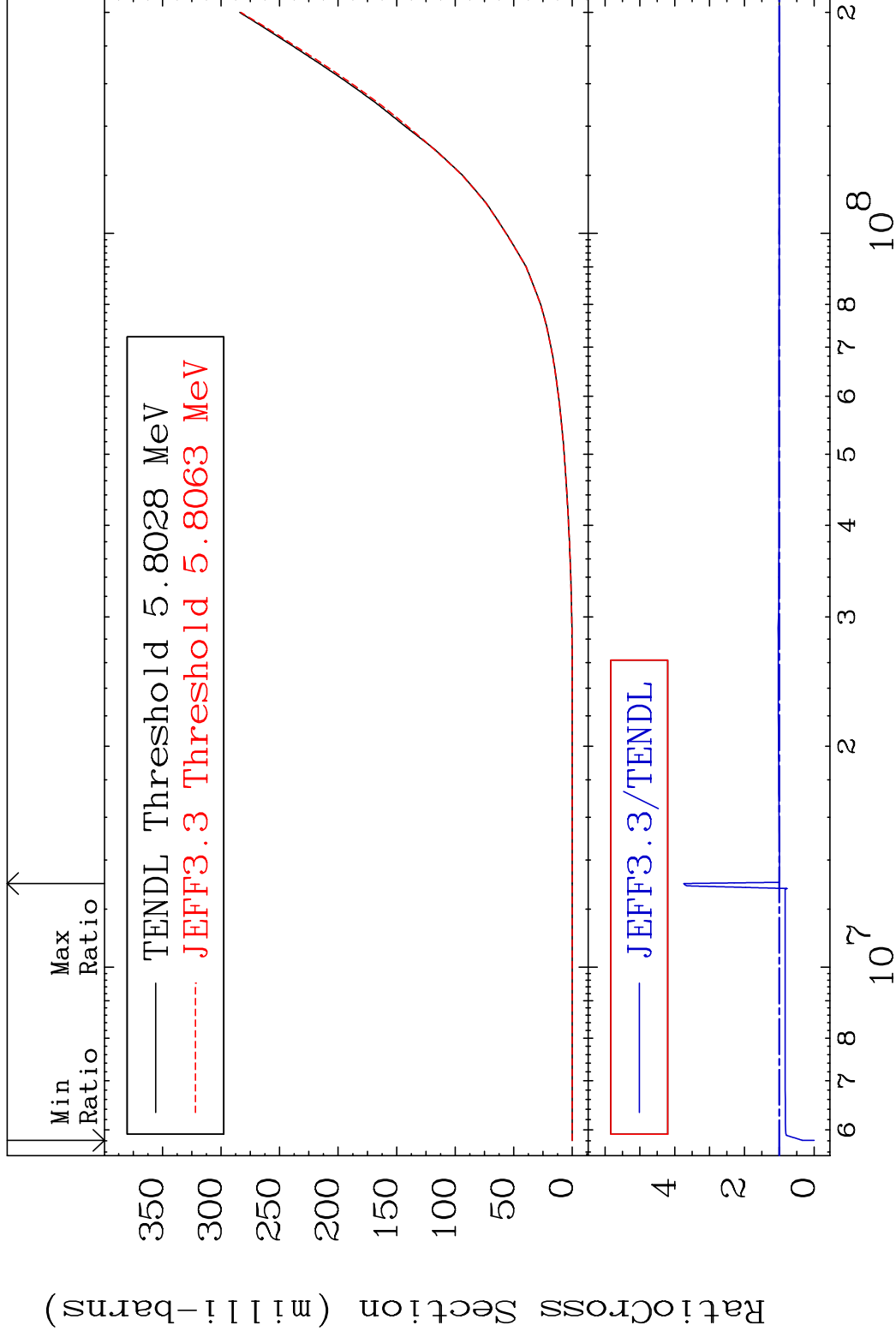


MAT 7125

He-3 Production

71-Lu-175

Cross Section -100.0 To 274.3 %



53

Incident Energy (eV)

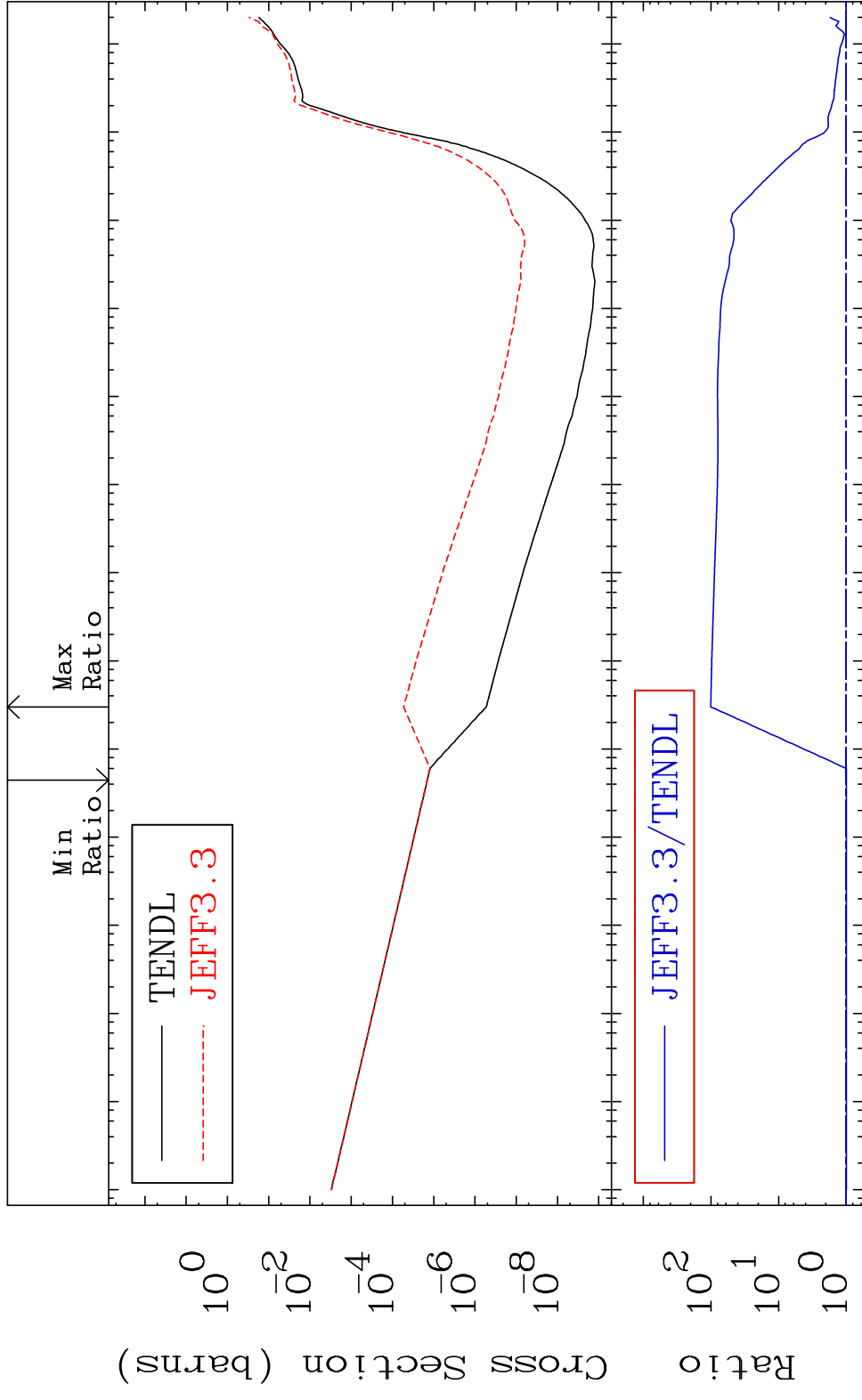
71-Lu-175

MAT 7125

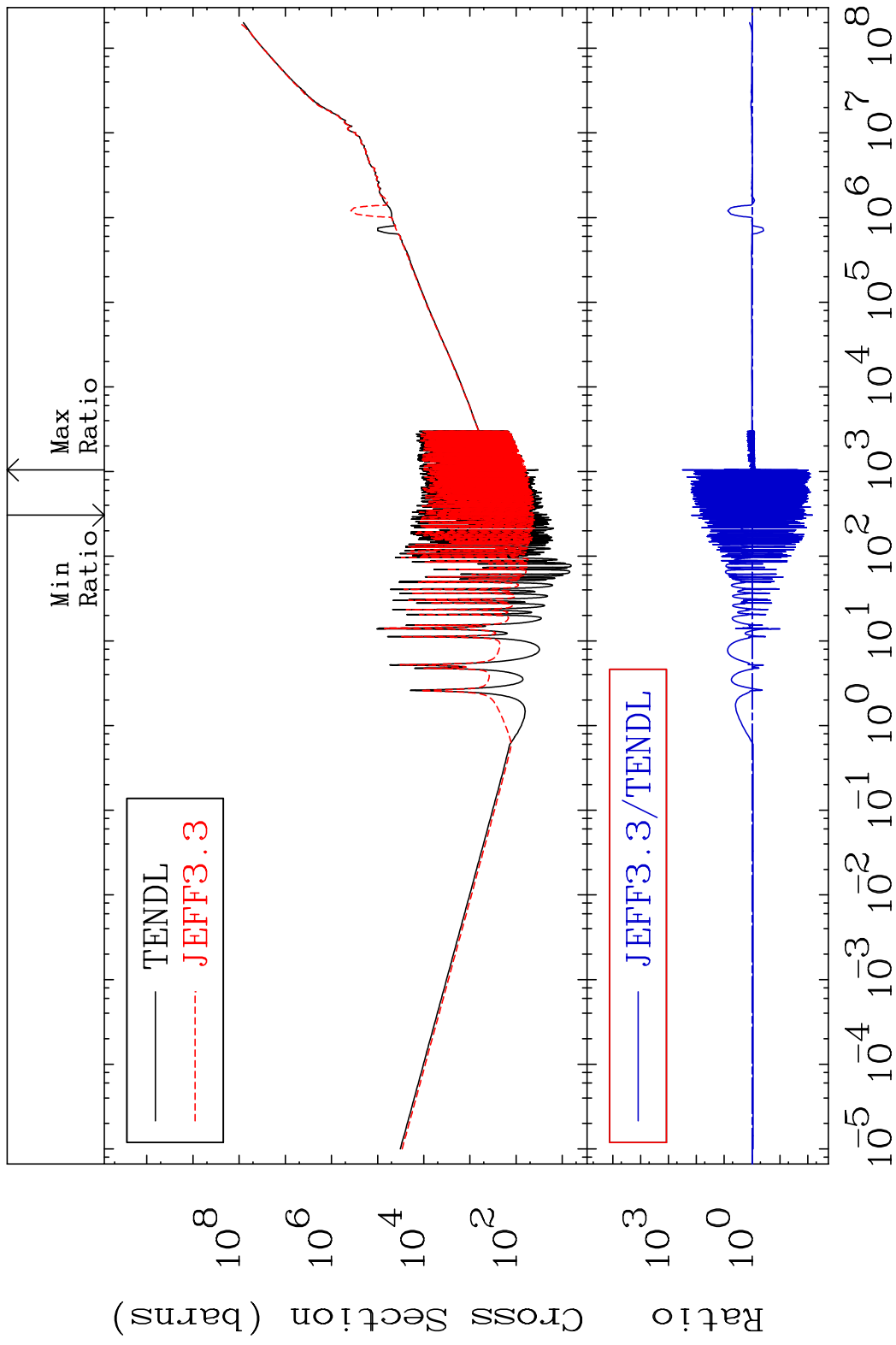
He-4 Production

71-Lu-175

Cross Section -0.529 To 9995. %



MAT 7125 Kerma total (eV-barns) 71-Lu-175  
 Cross Section -99.32 To 9999. %

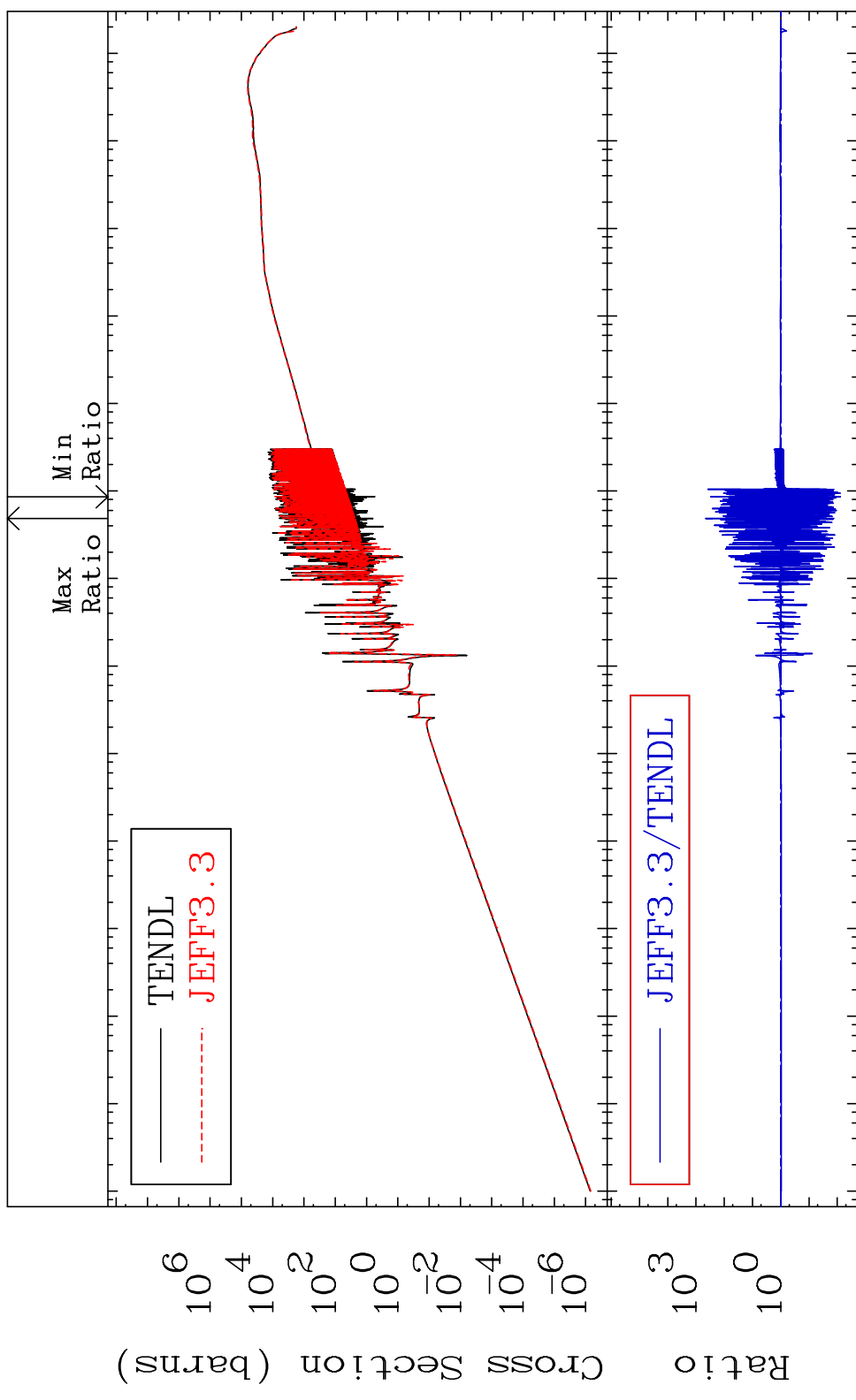




MAT 7125

Kerma elastic  
Cross Section -99.23 To 9999. %

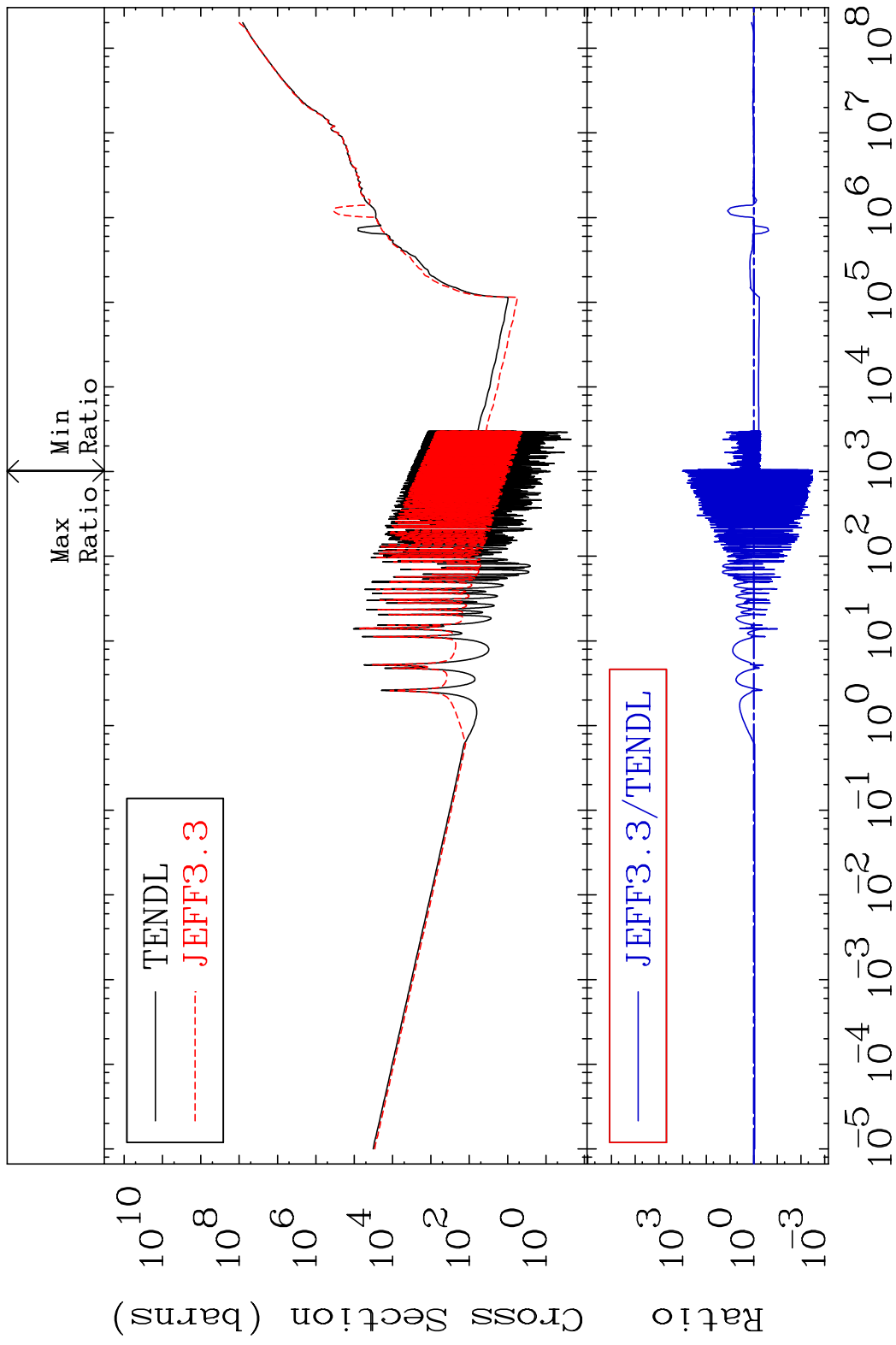
71-Lu-175

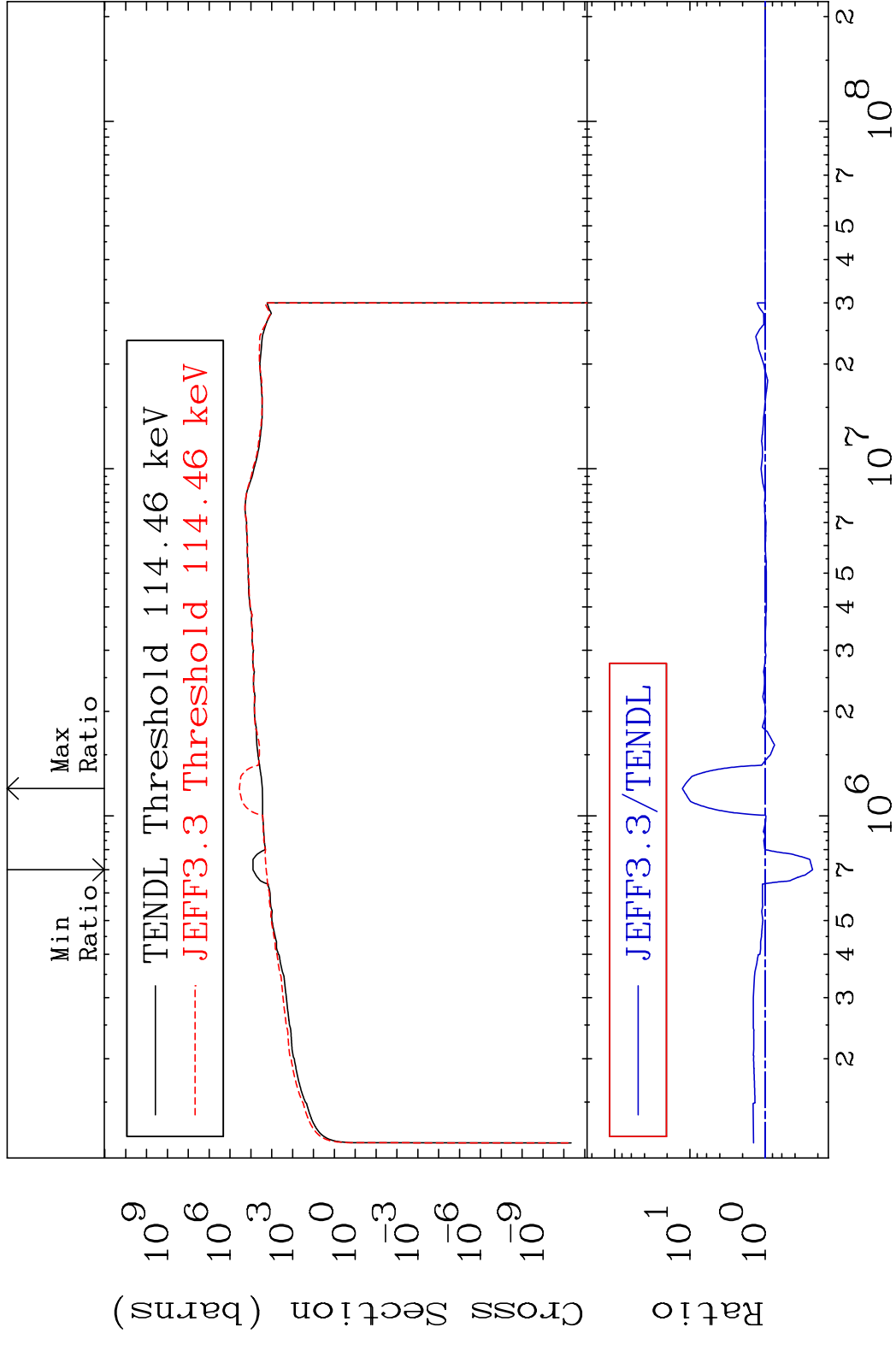


Cross Section (barns)  
 $10^6$   
 $10^4$   
 $10^2$   
 $10^0$   
 $10^{-2}$   
 $10^{-4}$   
 $10^{-6}$   
Ratio  
 $10^3$   
 $10^0$

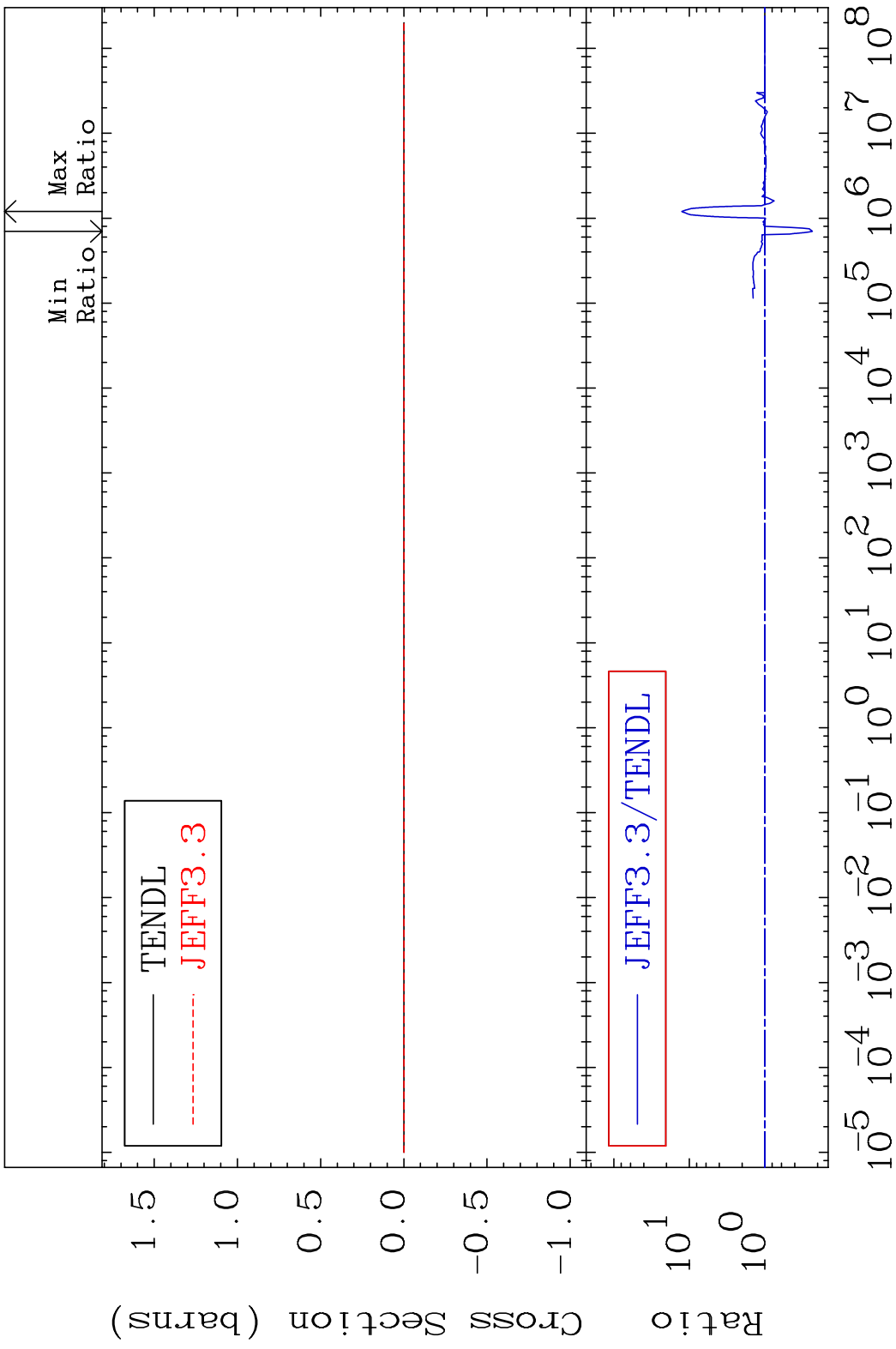
Incident Energy (eV)  
 $10^{-5}$   $10^{-4}$   $10^{-3}$   $10^{-2}$   $10^{-1}$   $10^0$   $10^1$   $10^2$   $10^3$   $10^4$   $10^5$   $10^6$   $10^7$   $10^8$

MAT 7125 Kerma non-elastic (all but mt2) 71-Lu-175  
 Cross Section -99.67 To 9999. %



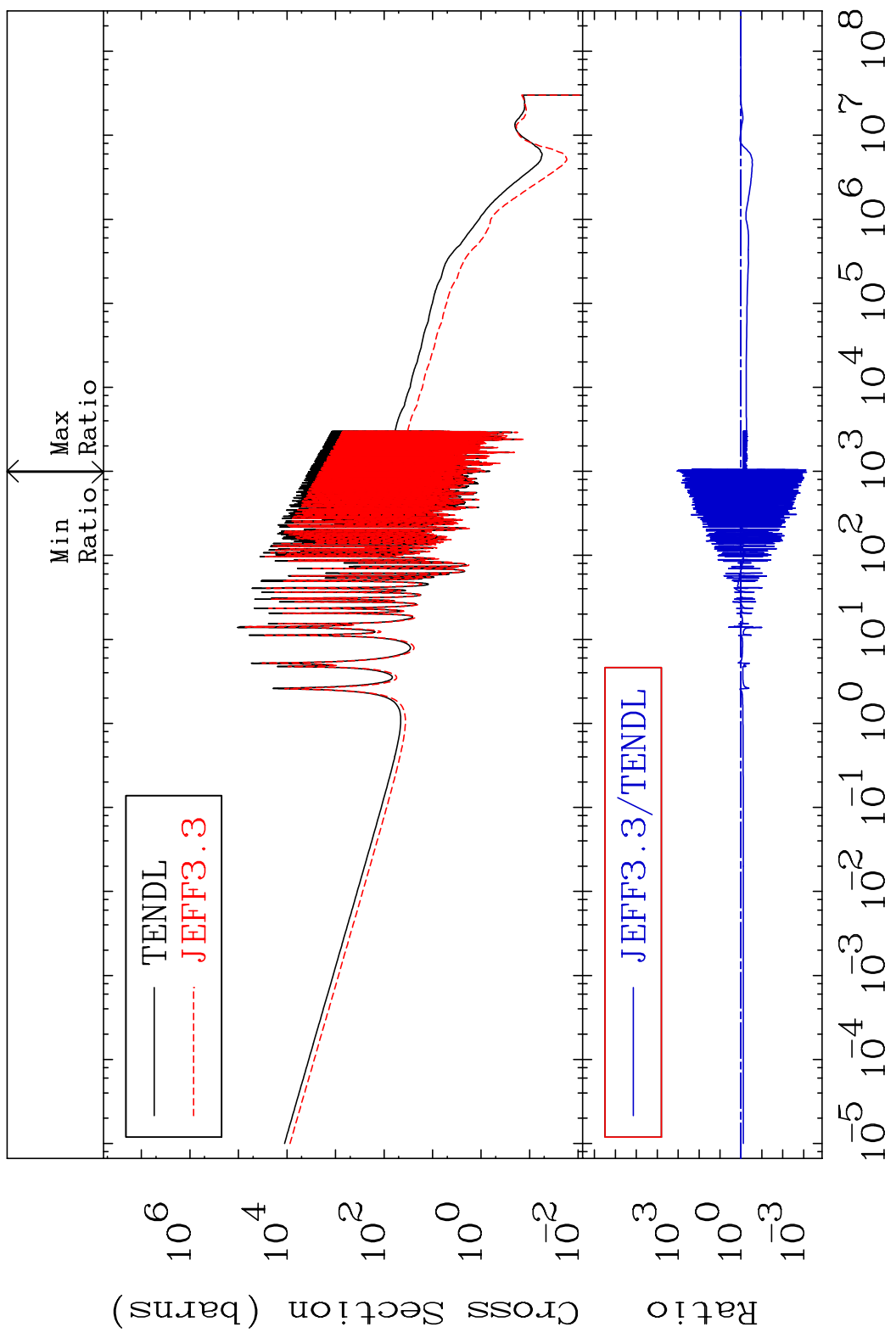


MAT 7125 Kerma fission (mt18 or mt19-20-21-38) 71-Lu-175  
 Cross Section -76.52 To 1158. %



MAT 7125

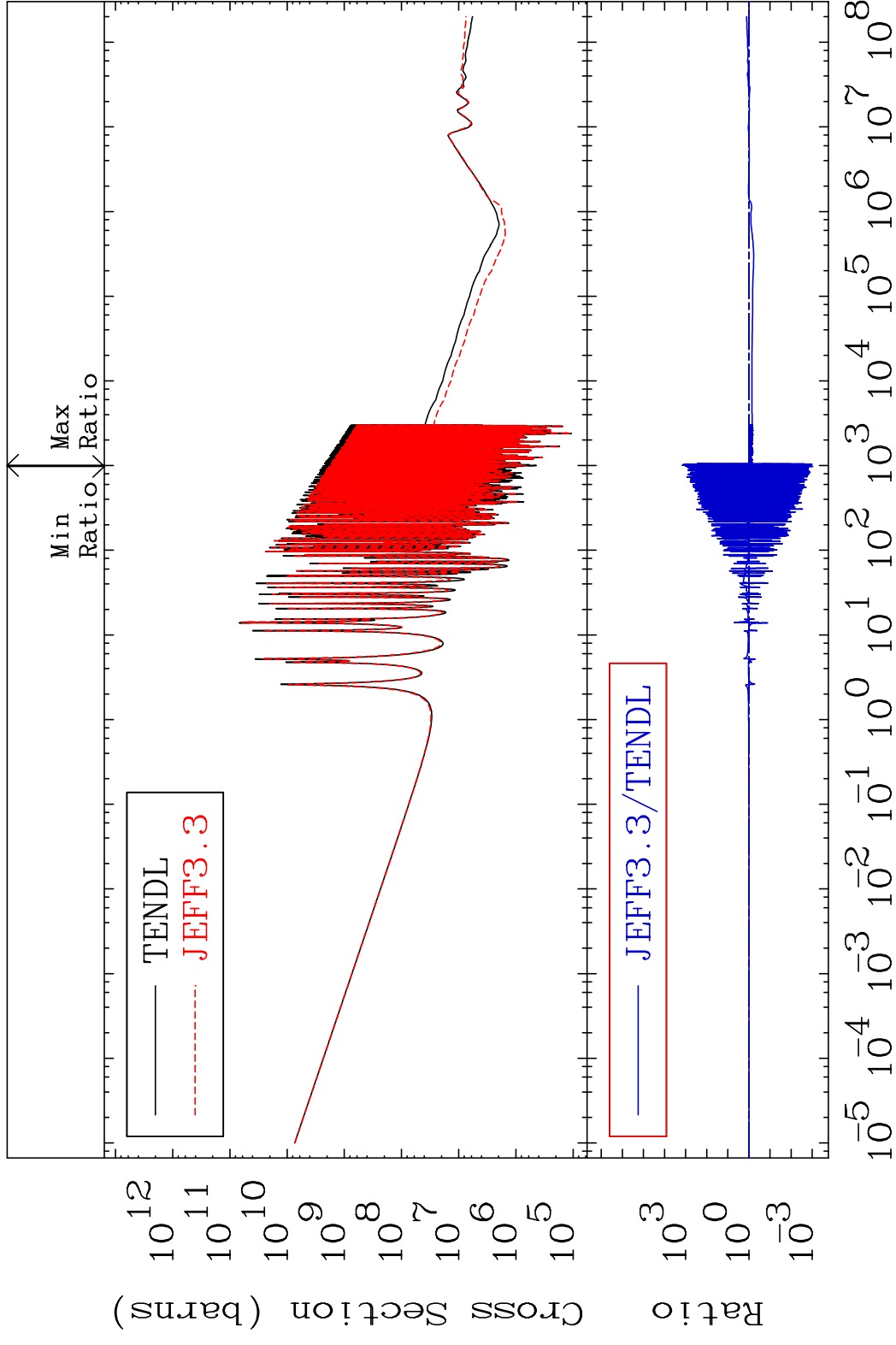
Kerma capture (mt102) 71-Lu-175  
Cross Section -99.93 To 9999. %



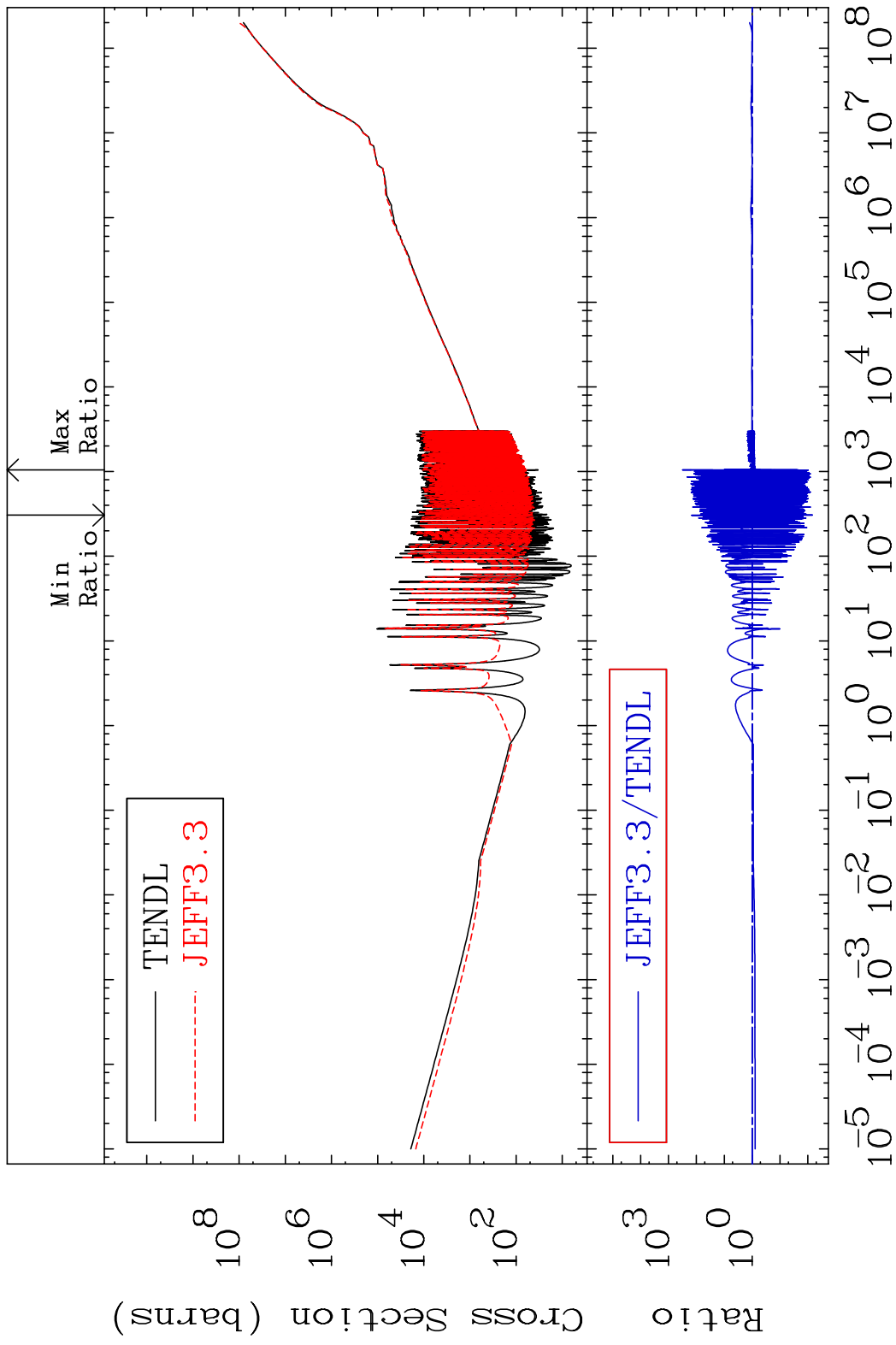
60

Incident Energy (eV) 71-Lu-175

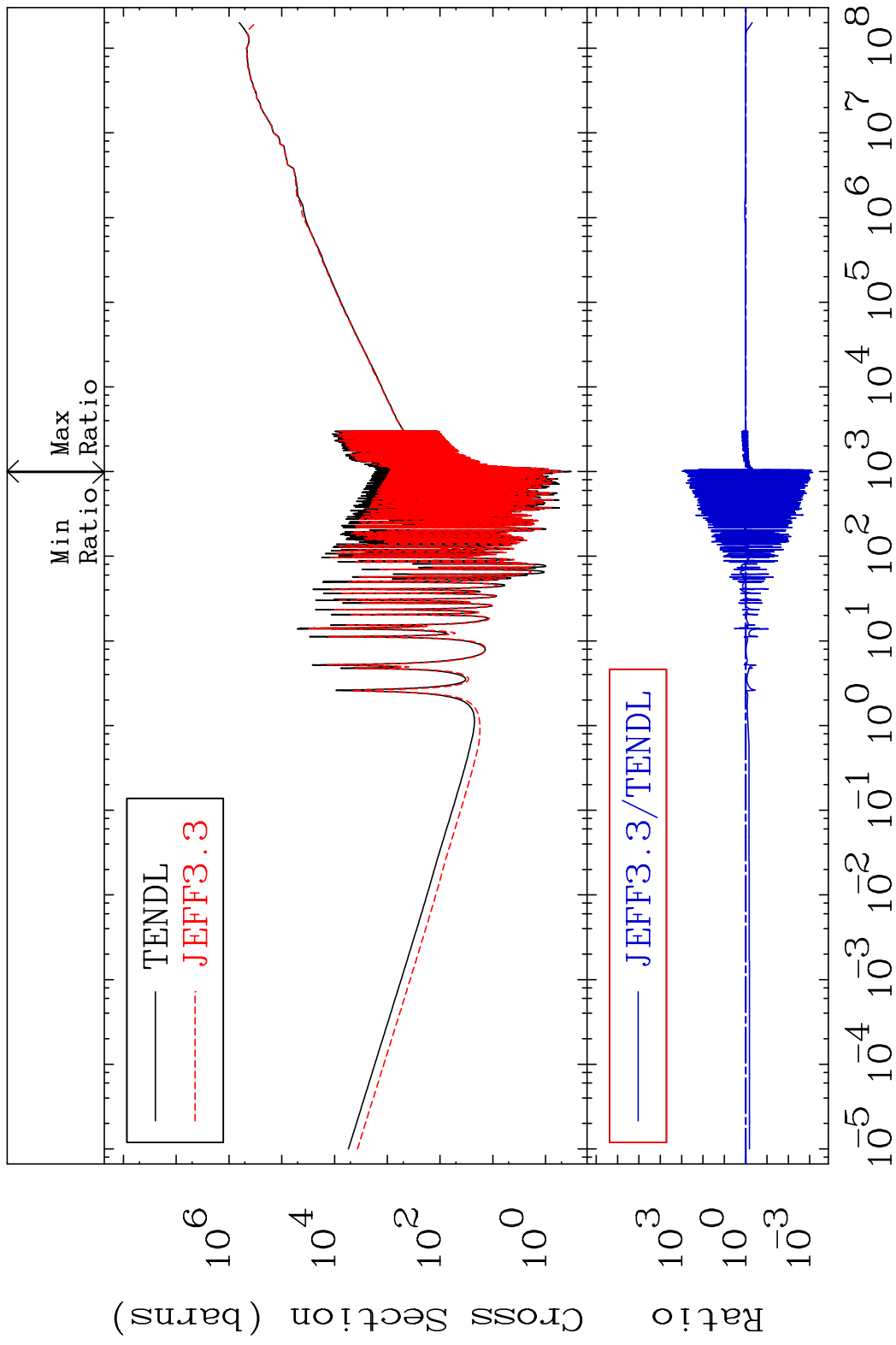
MAT 7125 Total photon (eV-barns) 71-Lu-175  
 Cross Section -99.90 To 9999. %



MAT 7125 Total kinematic kerma (high limit) 71-Lu-175  
 Cross Section -99.32 To 9999. %



MAT 7125 Dpa total (eV-barns) 71-Lu-175  
 Cross Section -99.93 To 9999. %



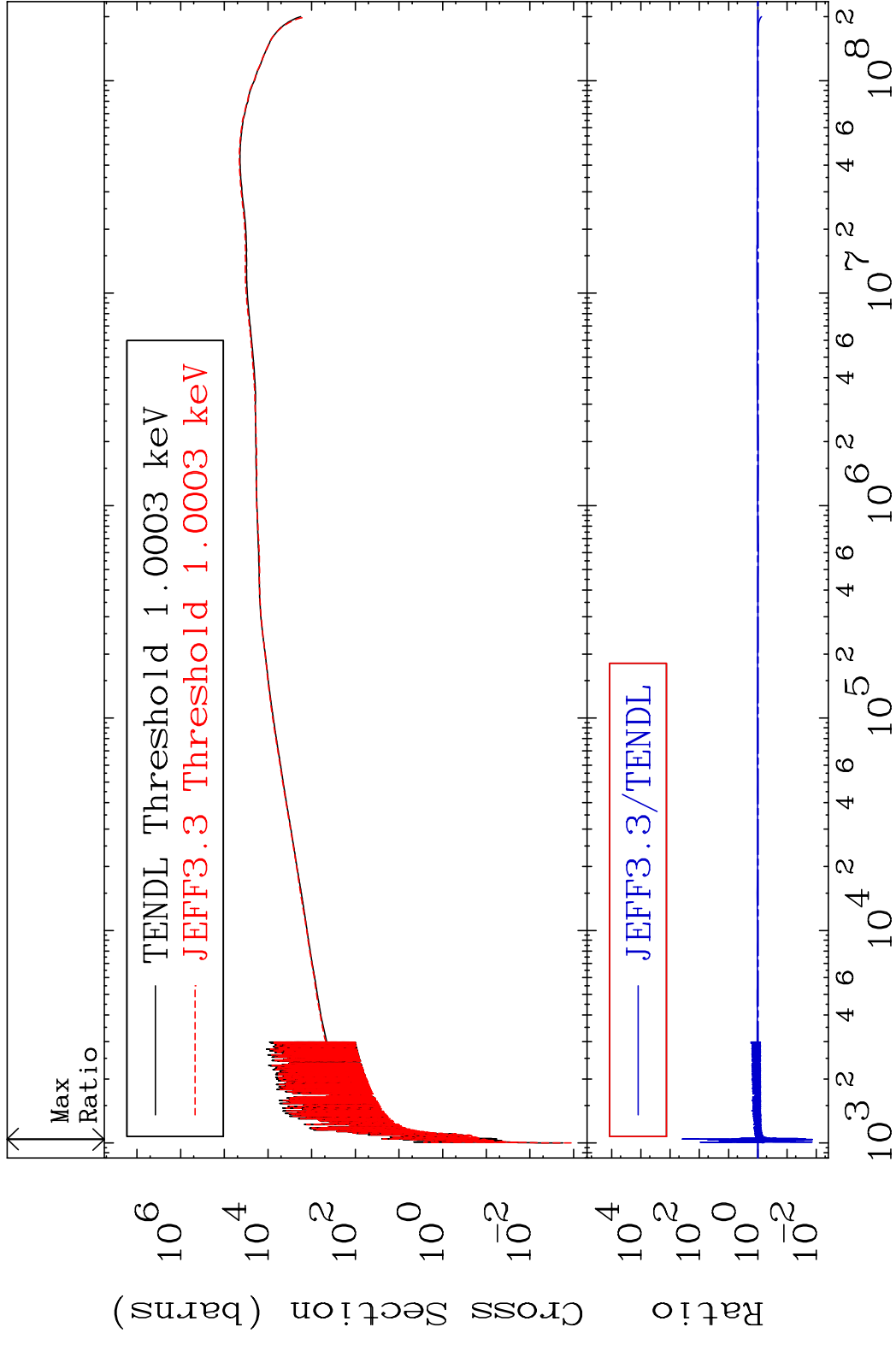


MAT 7125

Dpa elastic (mt2)

71-Lu-175

Cross Section -98.66 To 9999. %

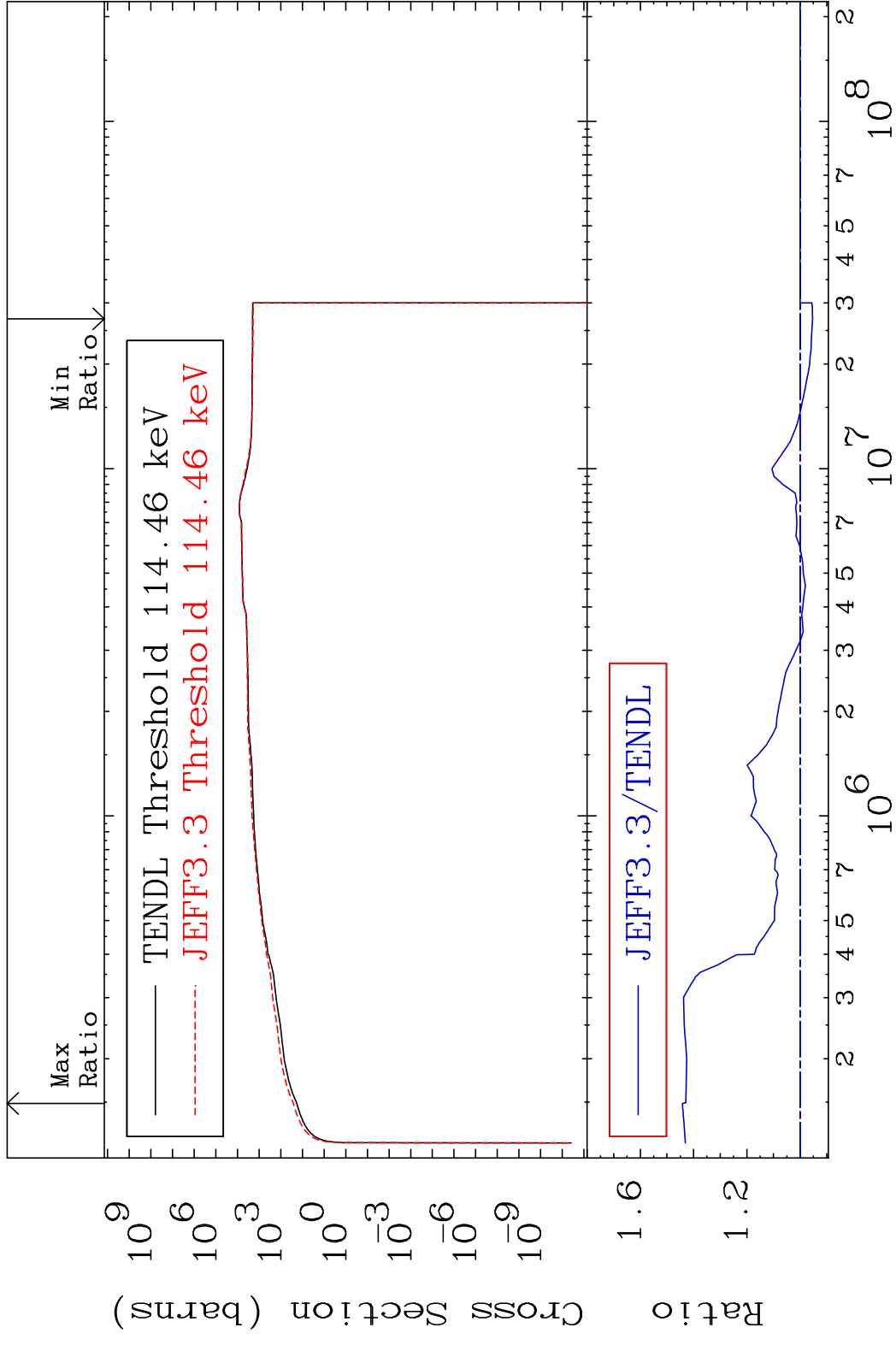


64

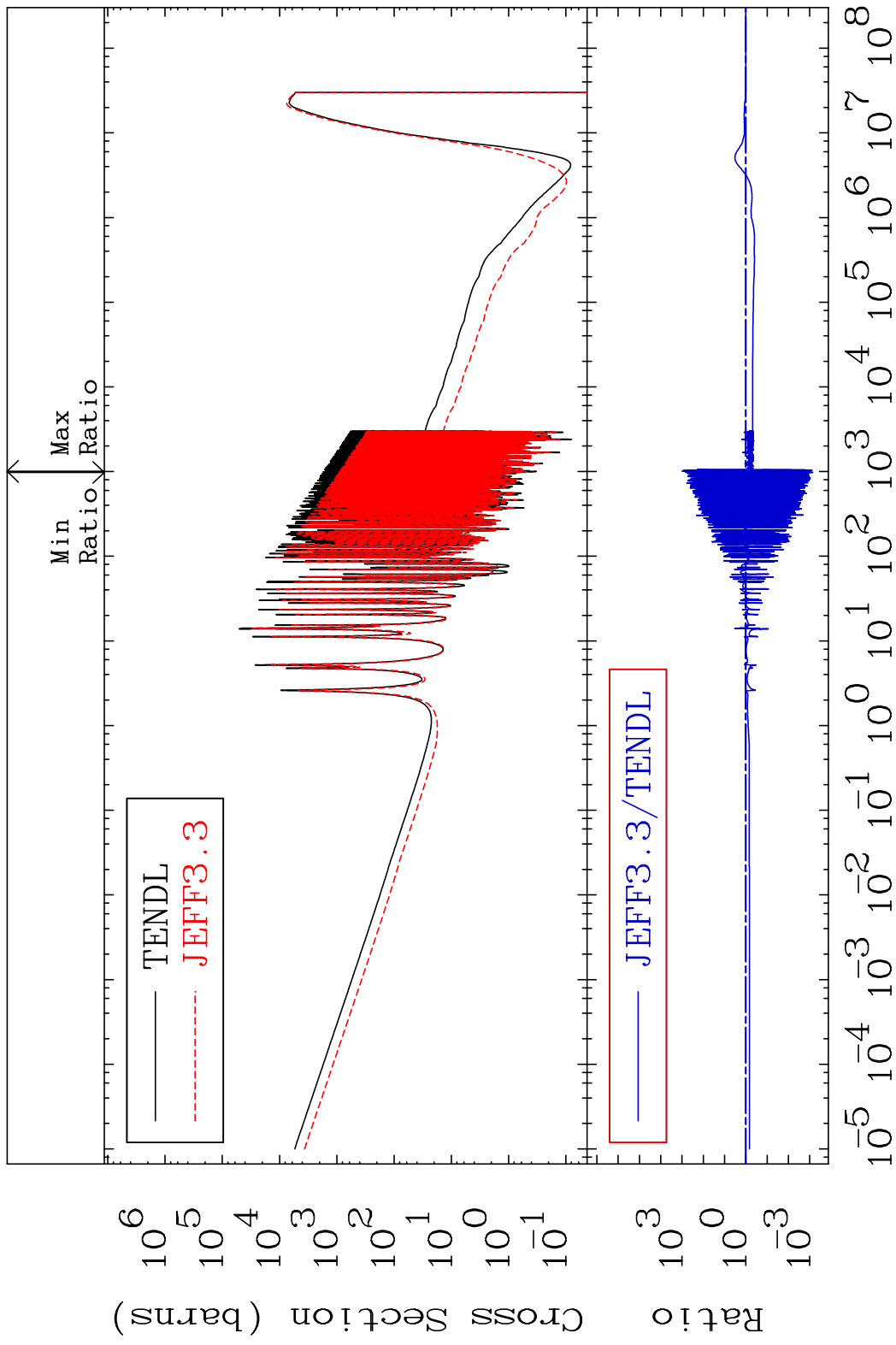
Incident Energy (eV)

71-Lu-175

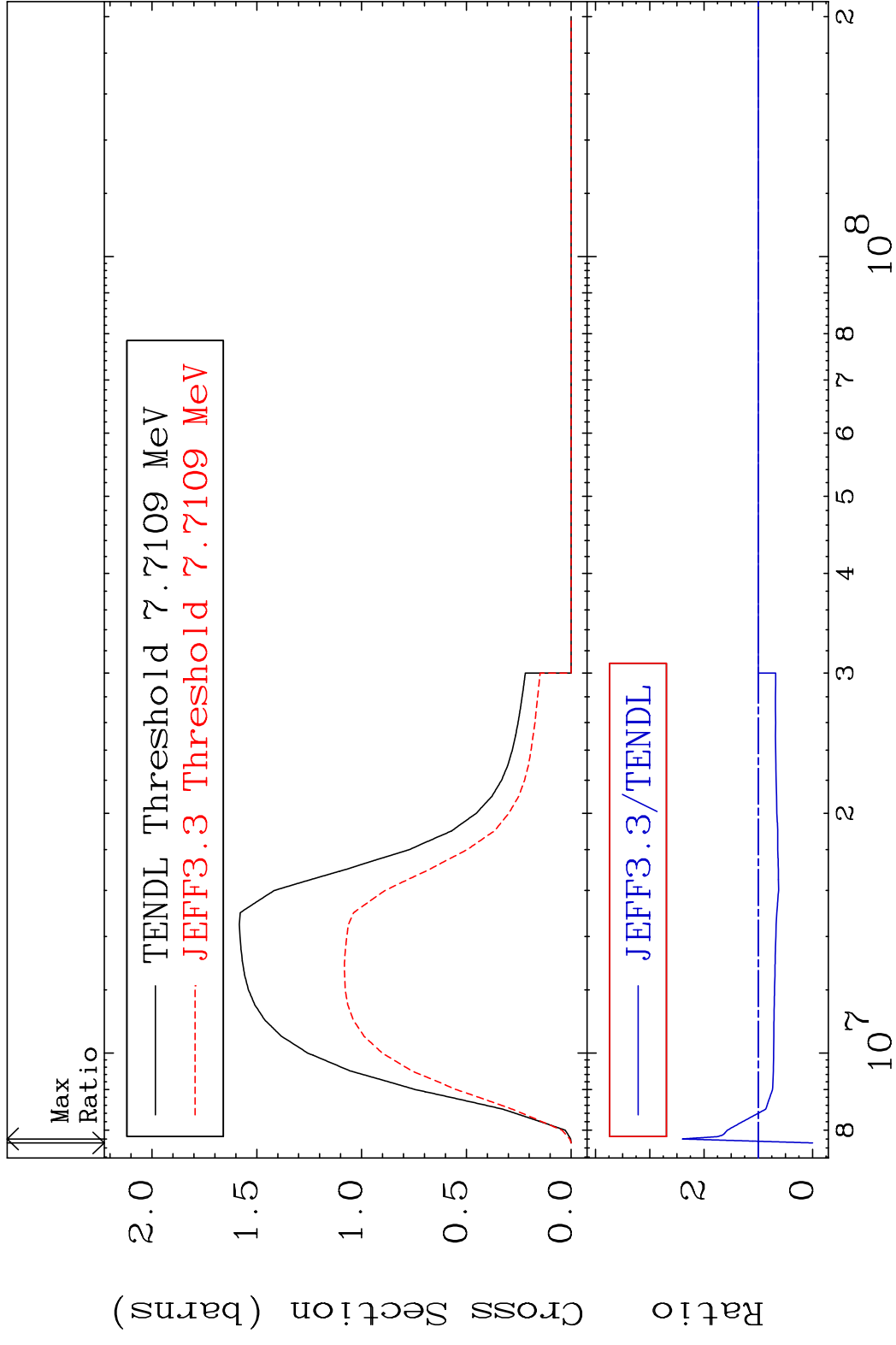
MAT 7125 Dpa inelastic (mt51-91) 71-Lu-175  
 Cross Section -4.702 To 44.22 %



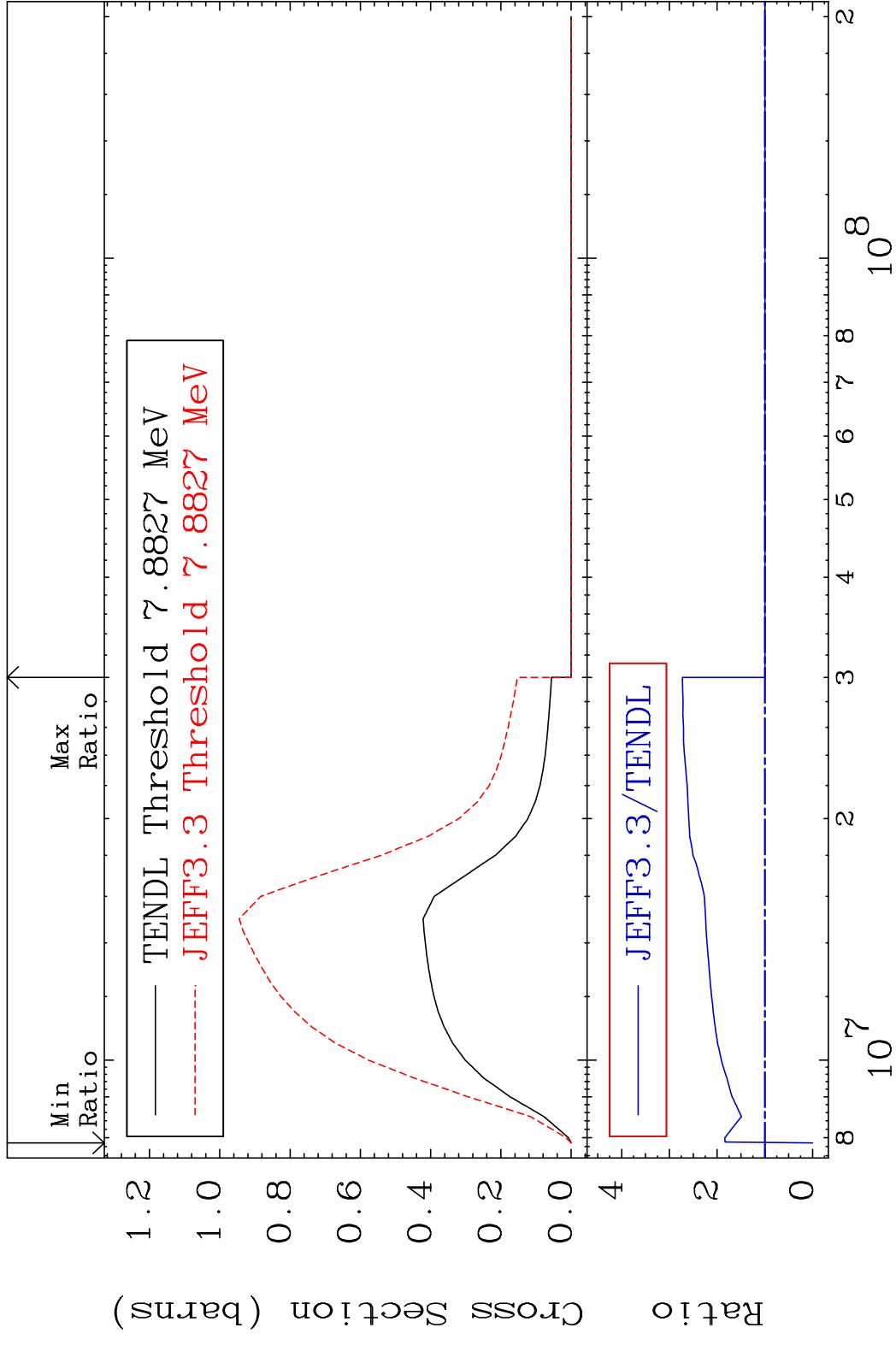
MAT 7125 Dpa disappearance (mt102 -120) 71-Lu-175  
 Cross Section -99.93 To 9999. %

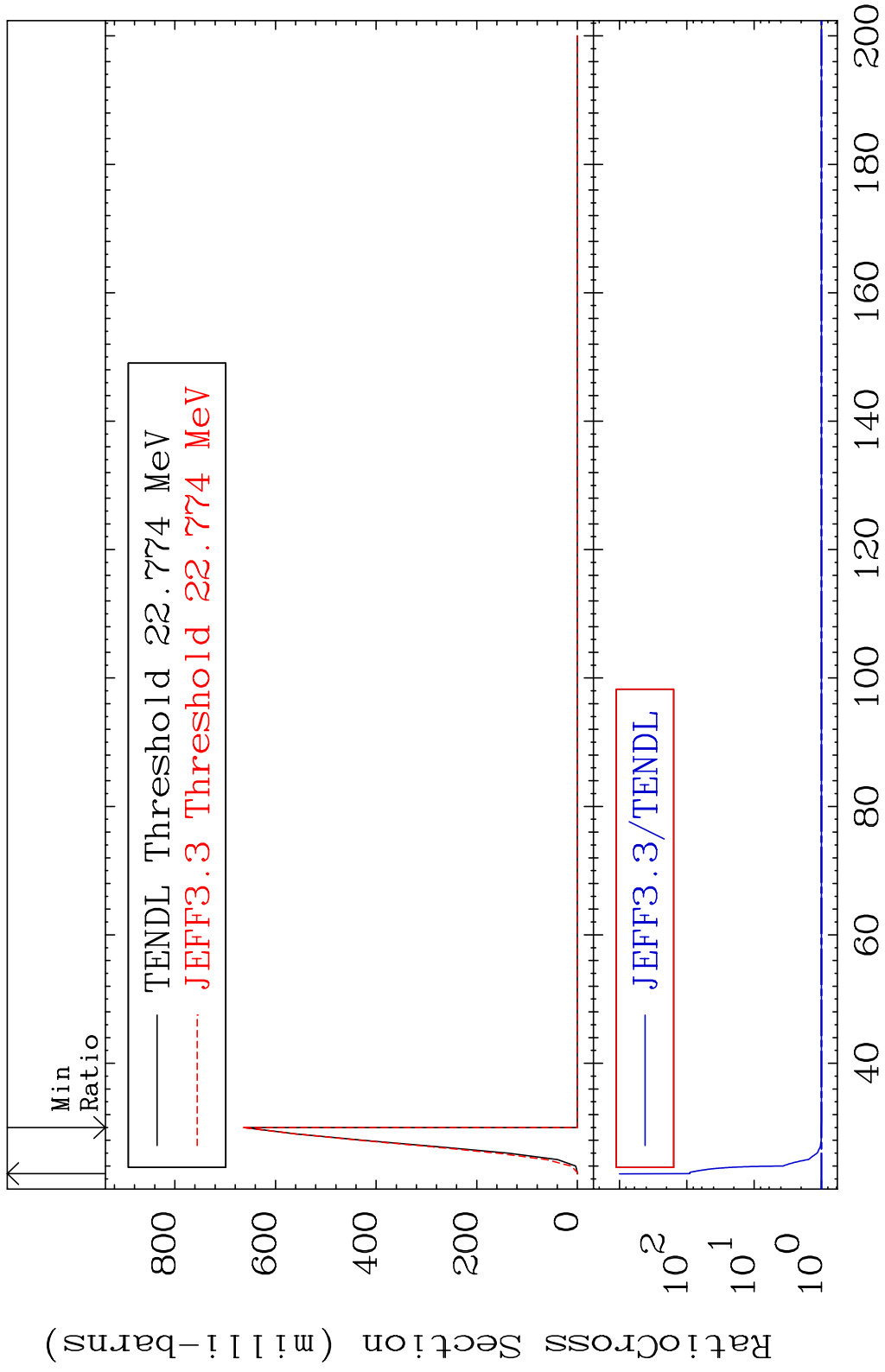


MAT 7125 (n,2n):71-Lu-174g 71-Lu-175  
 Radionuclide Production Cross Section 139.9 %

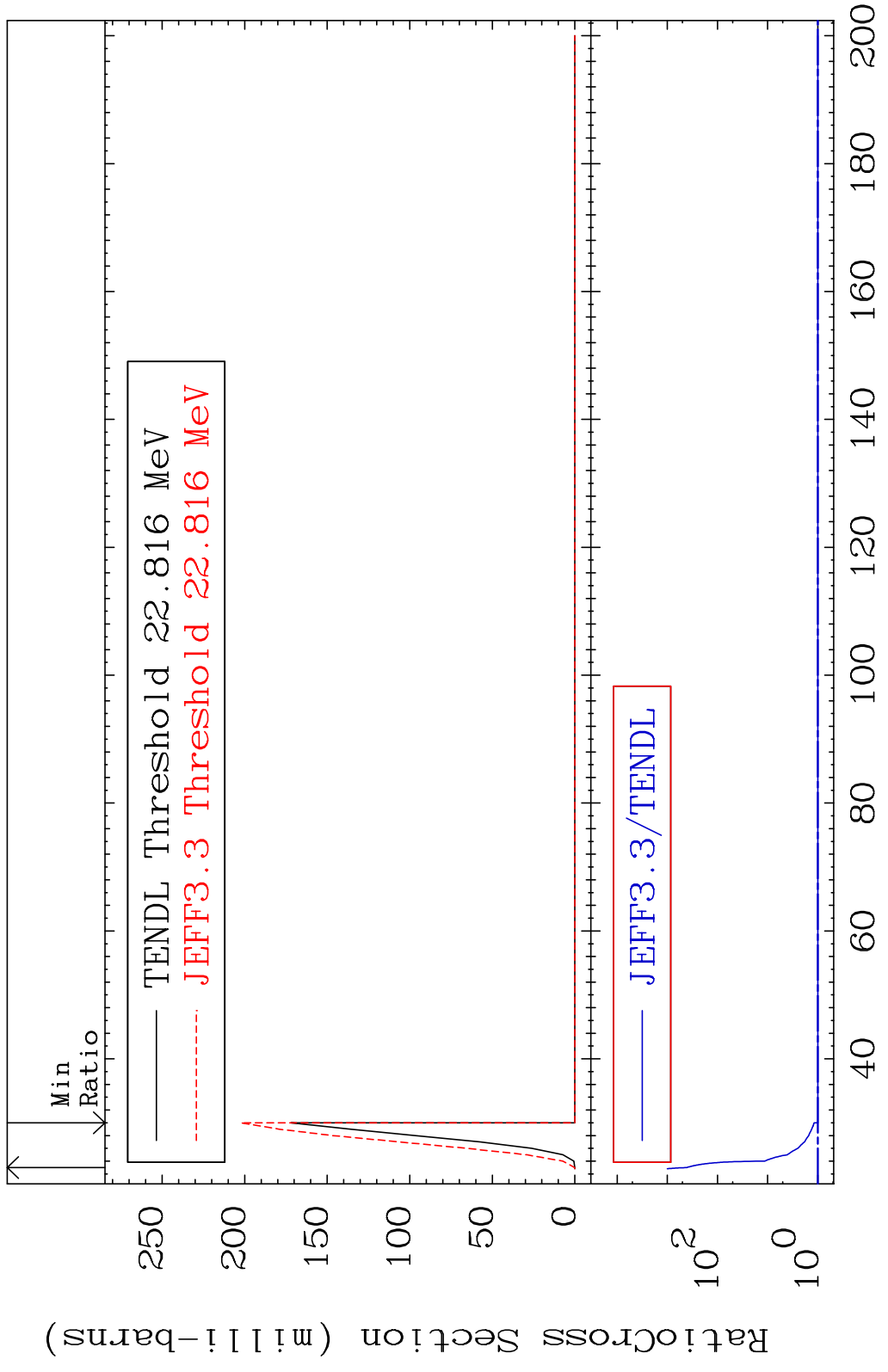


MAT 7125 (n,2n):71-Lu-174m3 71-Lu-175  
 Radionuclide Production Cross Section 180.0 dth 172.8 %





MAT 7125 (n, 4n): 71-Lu-172m1 71-Lu-175  
 Radionuclide Production Cross Section 9999. %



70 Incident Energy (MeV) 71-Lu-175