

Program Complot  
(Version 2021-1)

by

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(Present Contact Information)

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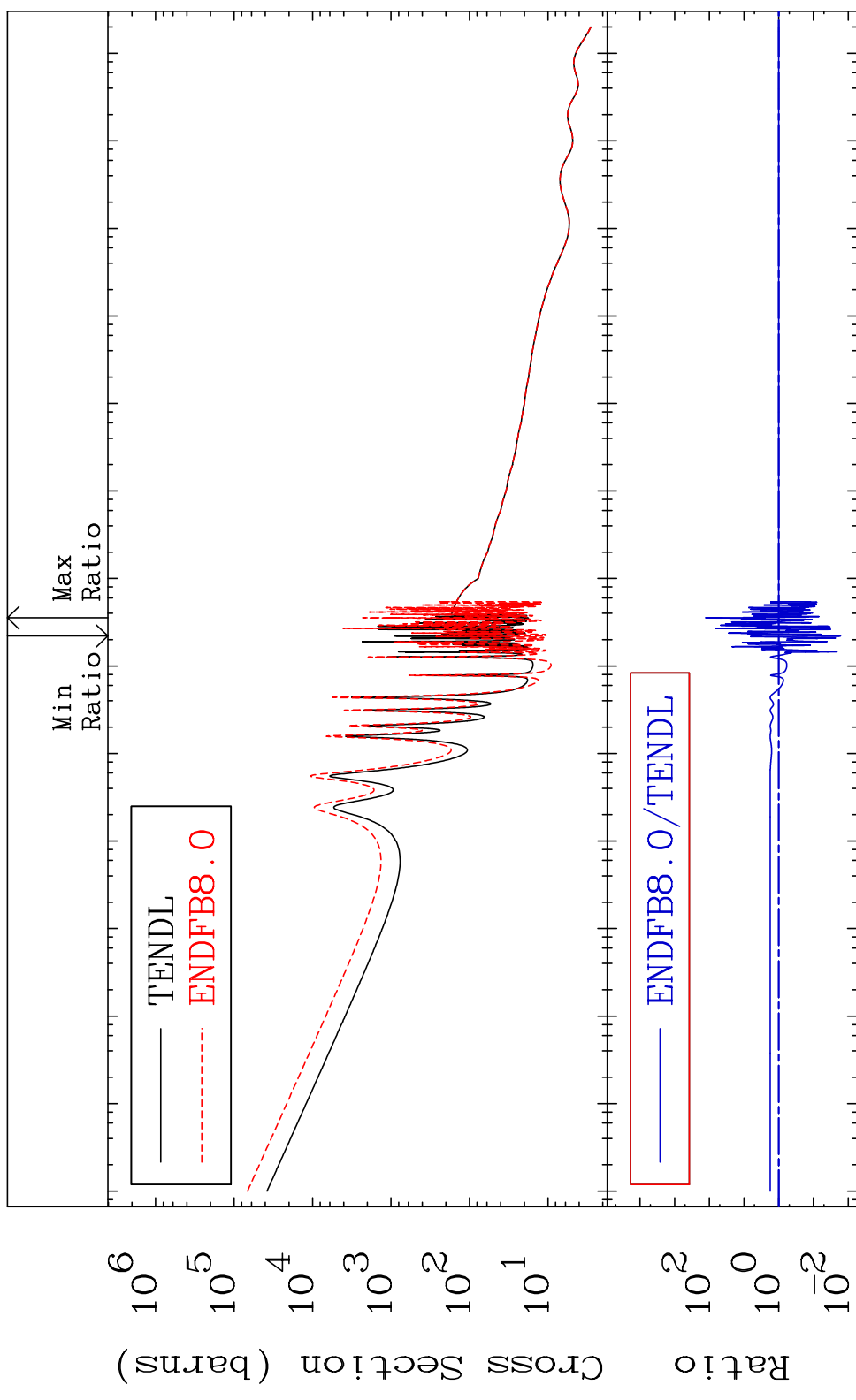
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7728

Total  
Cross Section -98.33 To 9999. %

77-Ir-192



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>

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>

1

Incident Energy (eV)

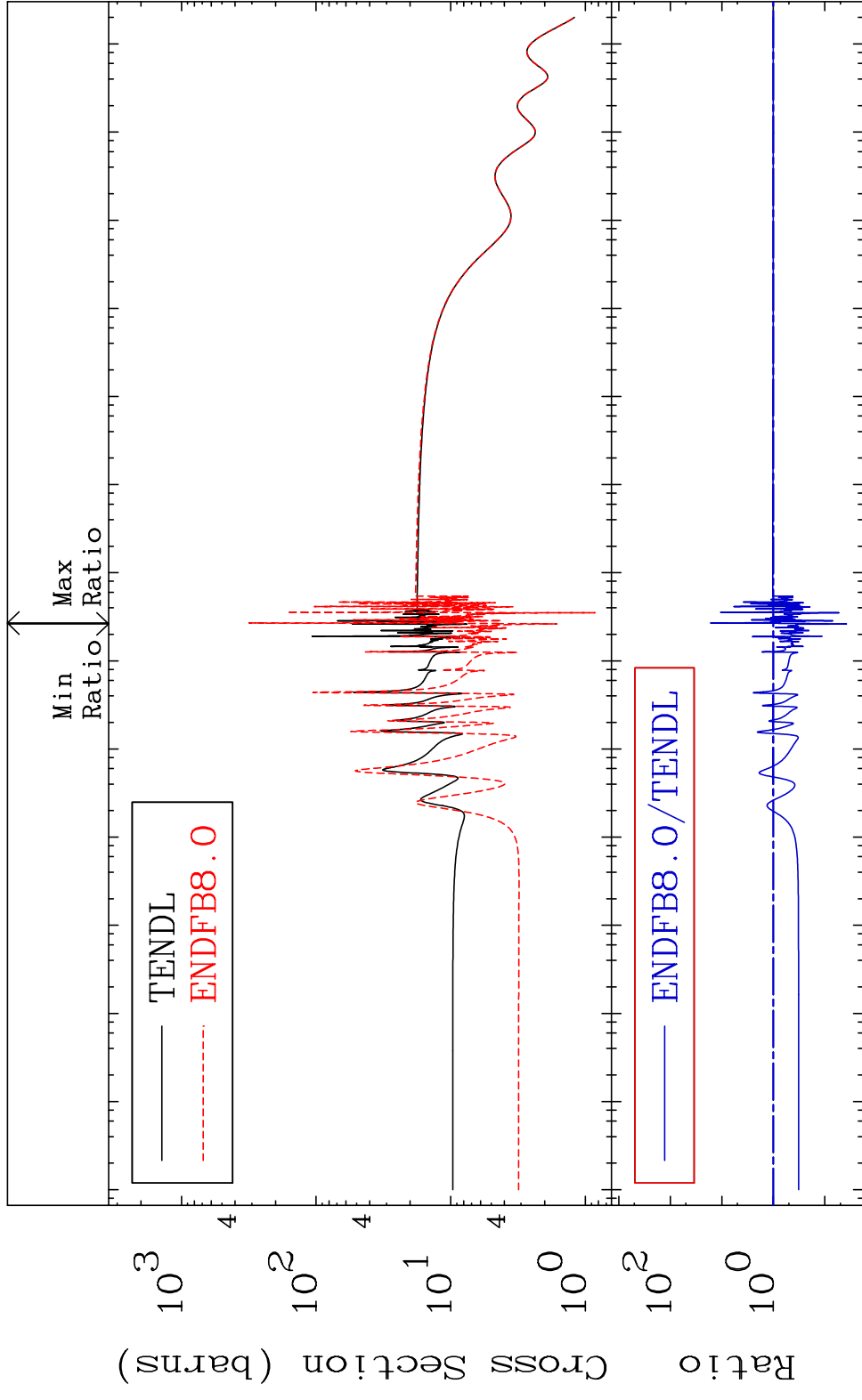
77-Ir-192

MAT 7728

Elastic

77-Ir-192

Cross Section -96.17 To 1543. %



2

Incident Energy (eV)

77-Ir-192

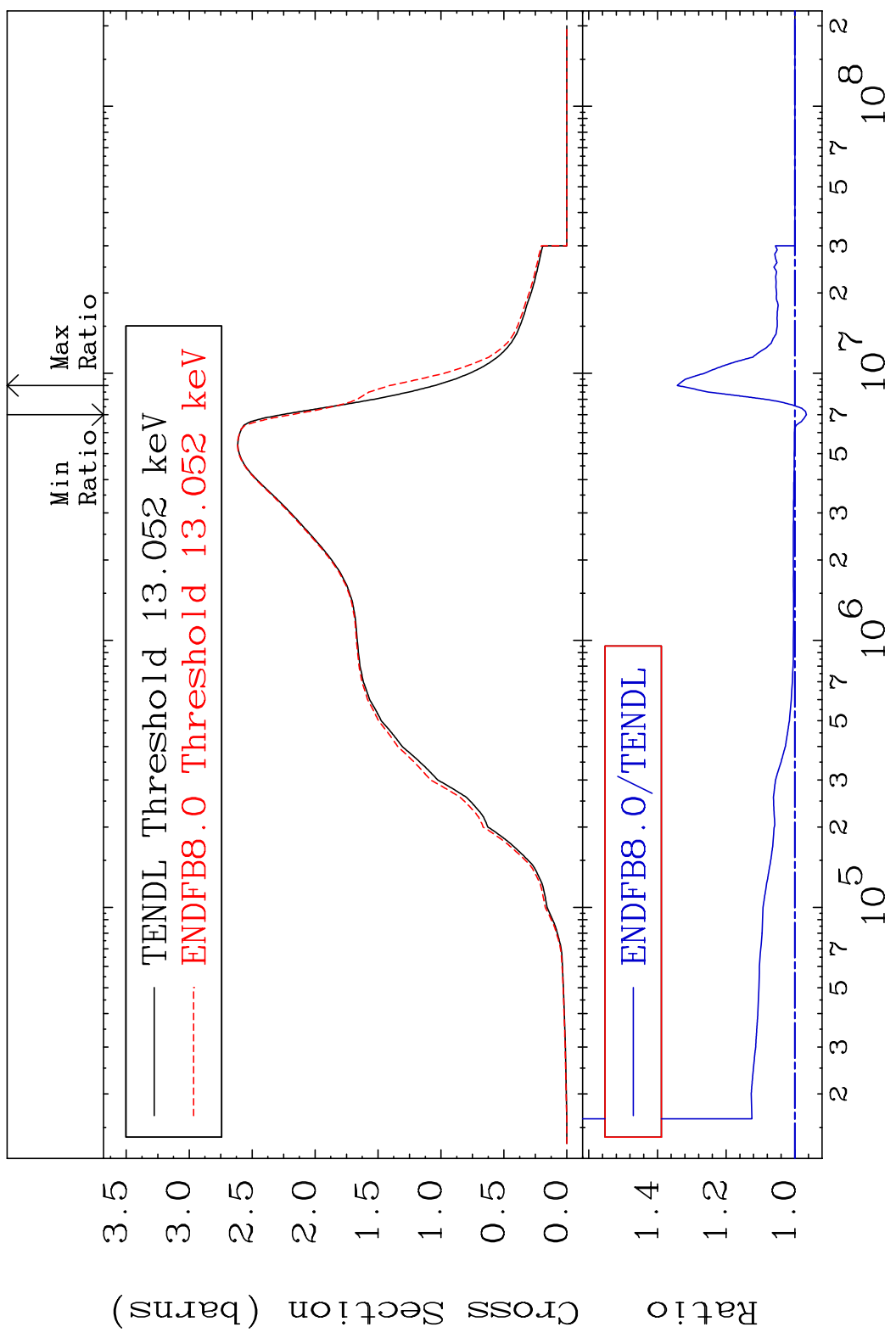
MAT 7728

Inelastic

77-Ir-192

Cross Section

-3.381 To 34.26 %

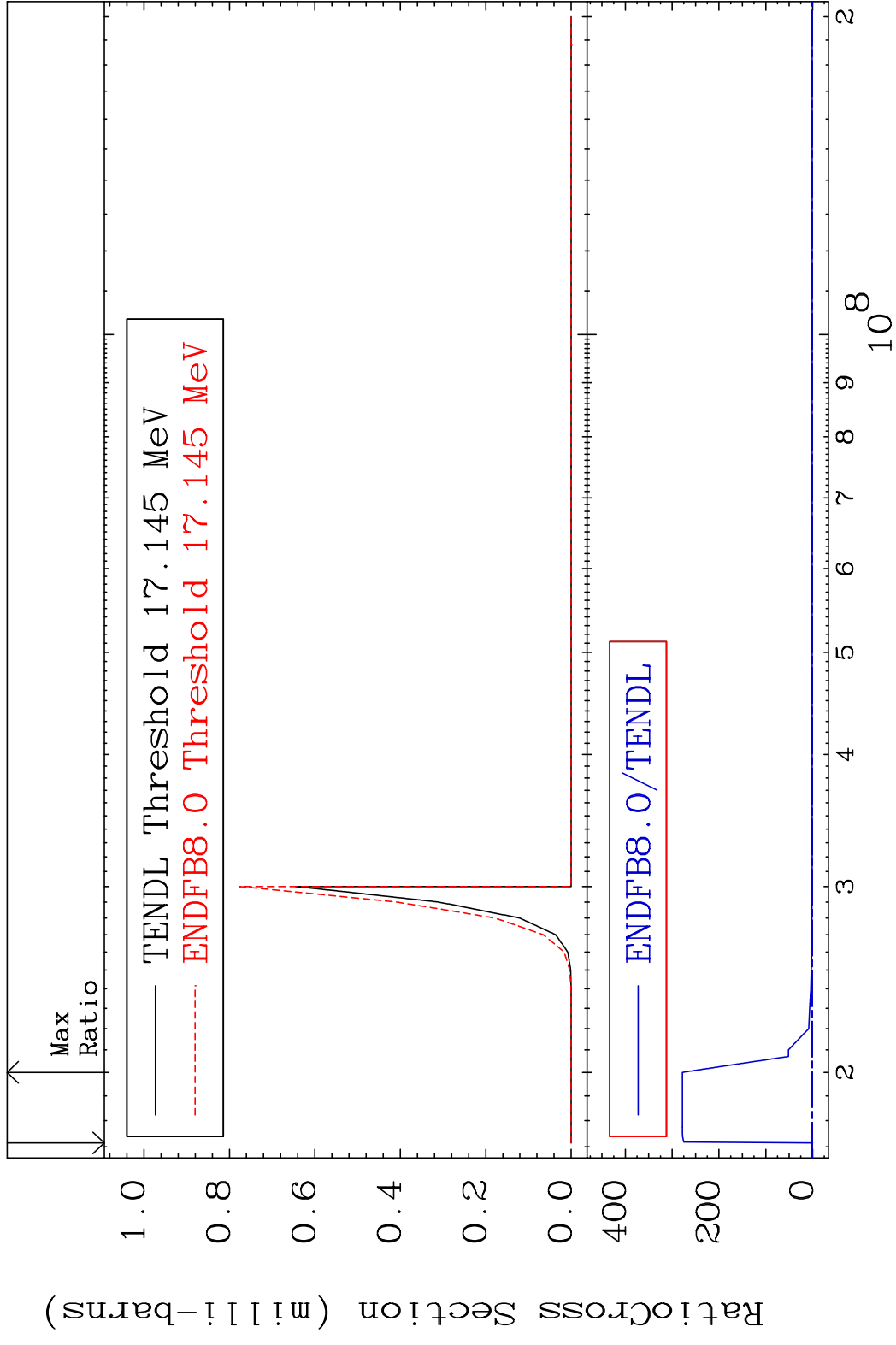


MAT 7728

(n,2n) d

77-Ir-192

Cross Section -100.0 To 9999. %

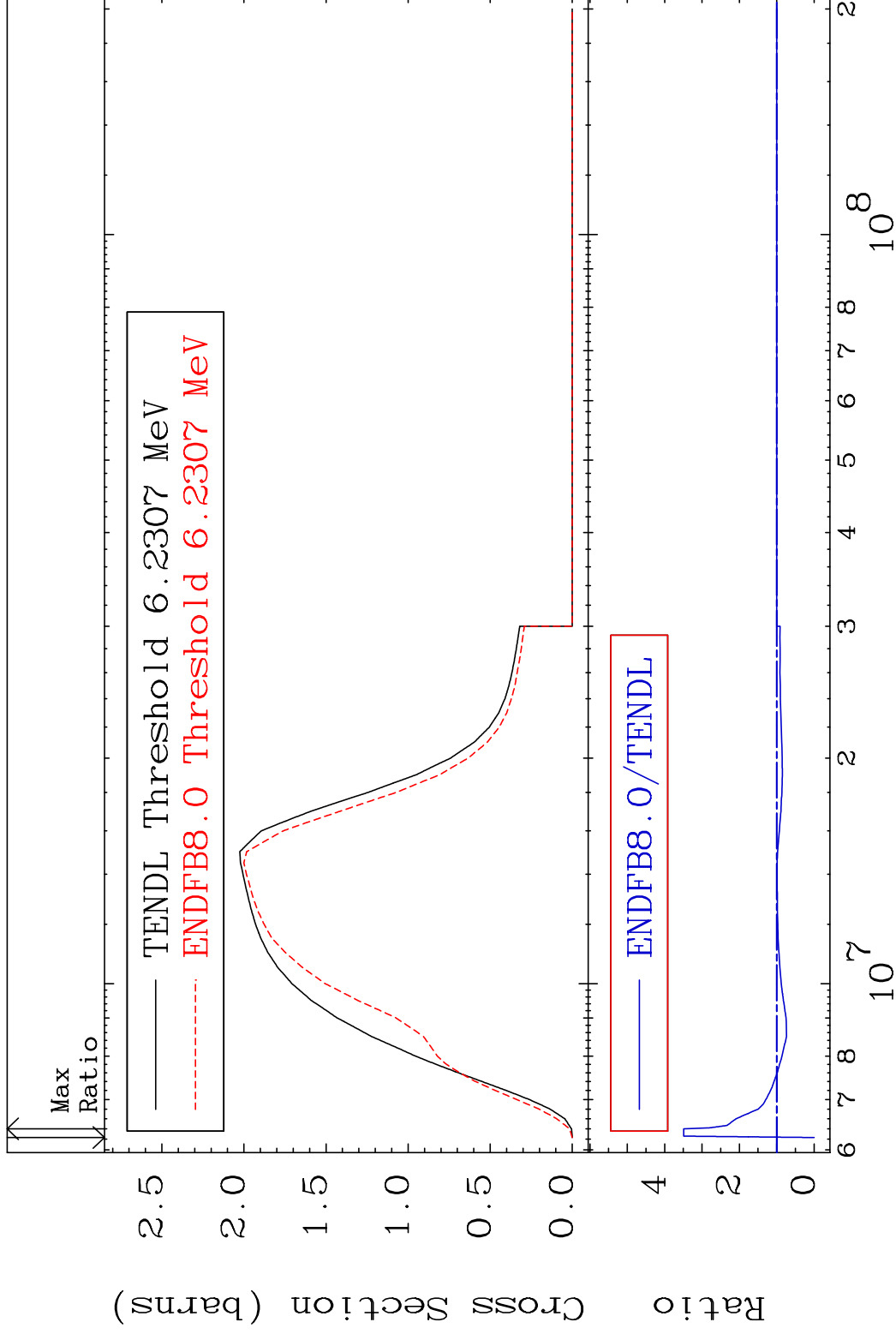


MAT 7728

(n,2n)

77-Ir-192

Cross Section -100.0 To 249.1 %



5

Incident Energy (eV)

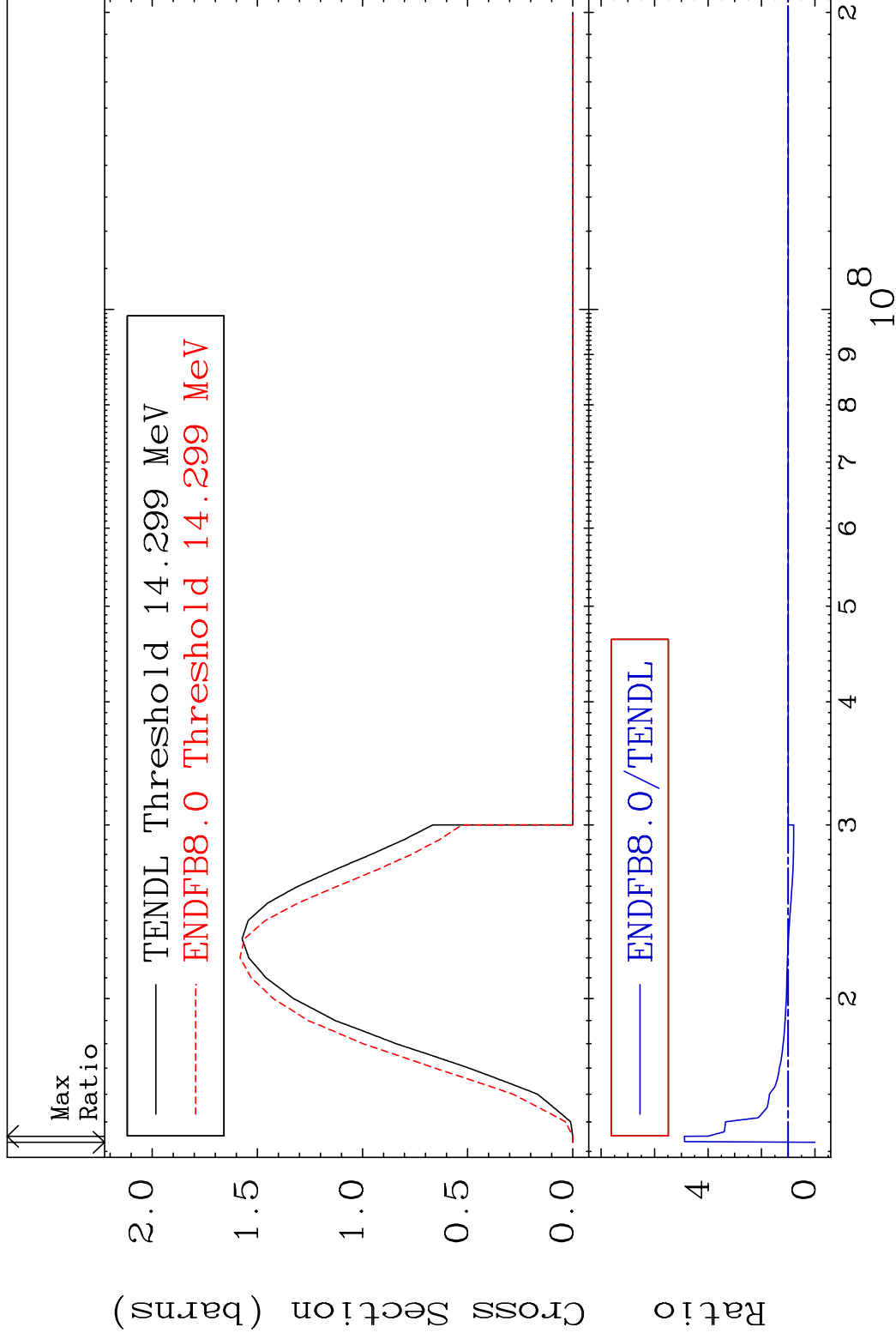
77-Ir-192

MAT 7728

(n,3n)

77-Ir-192

Cross Section -100.0 To 388.8 %



6

Incident Energy (eV)

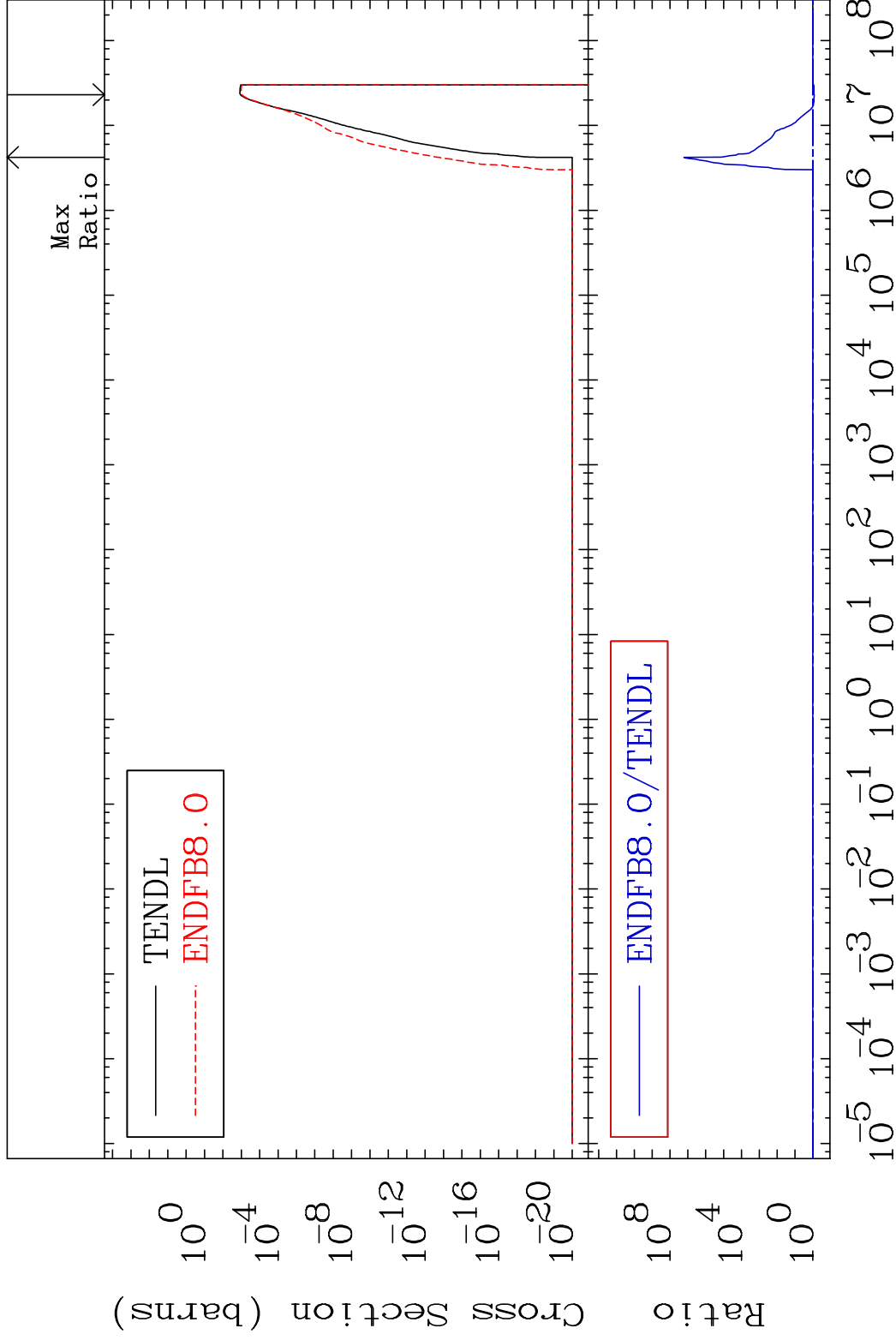
77-Ir-192

MAT 7728

(n, n')  $\alpha$

77-Ir-192

Cross Section -15.37 To 9999. %



7

Incident Energy (eV)

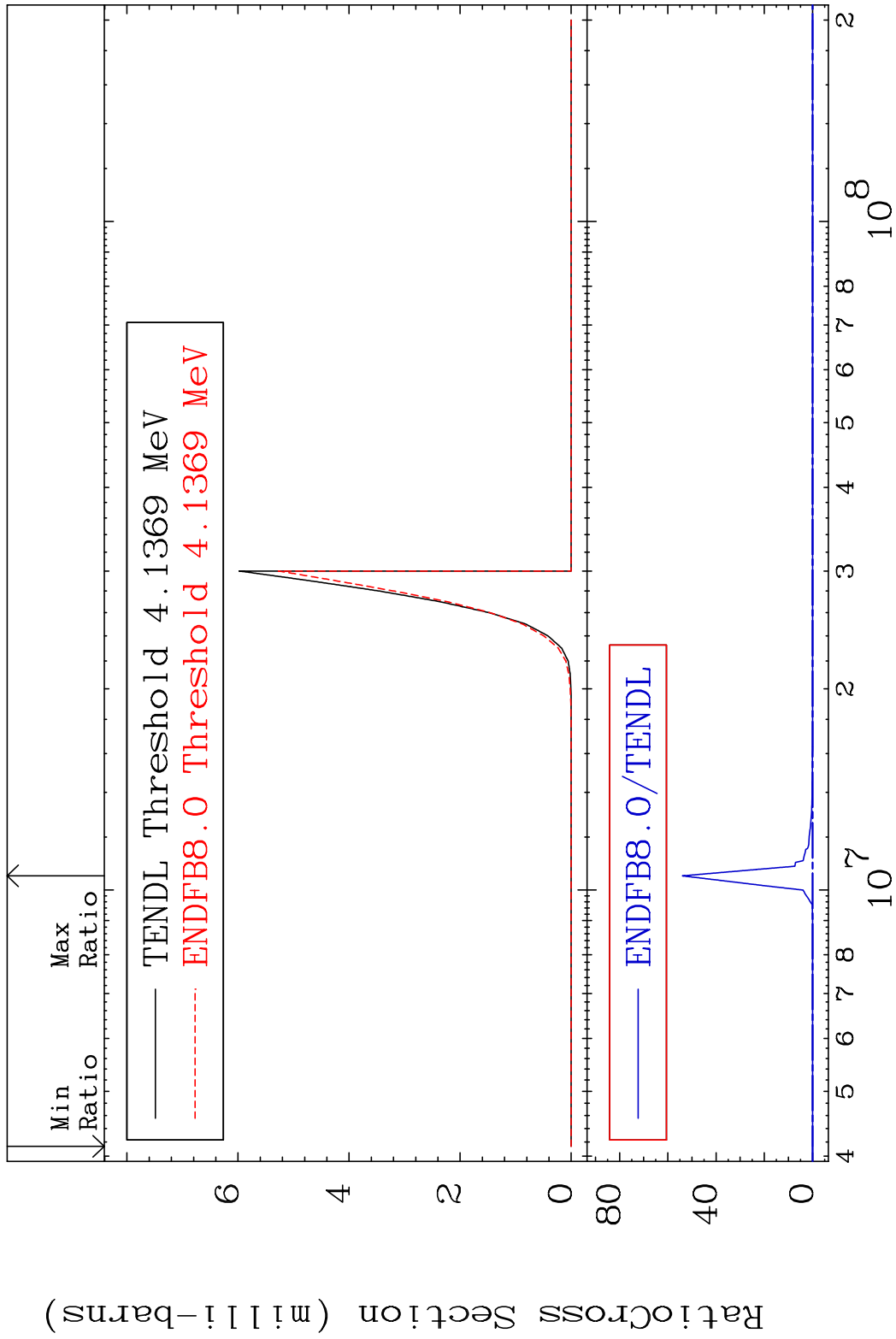
77-Ir-192

MAT 7728

(n,2n)  $\alpha$

77-Ir-192

Cross Section -100.0 To 9999. %

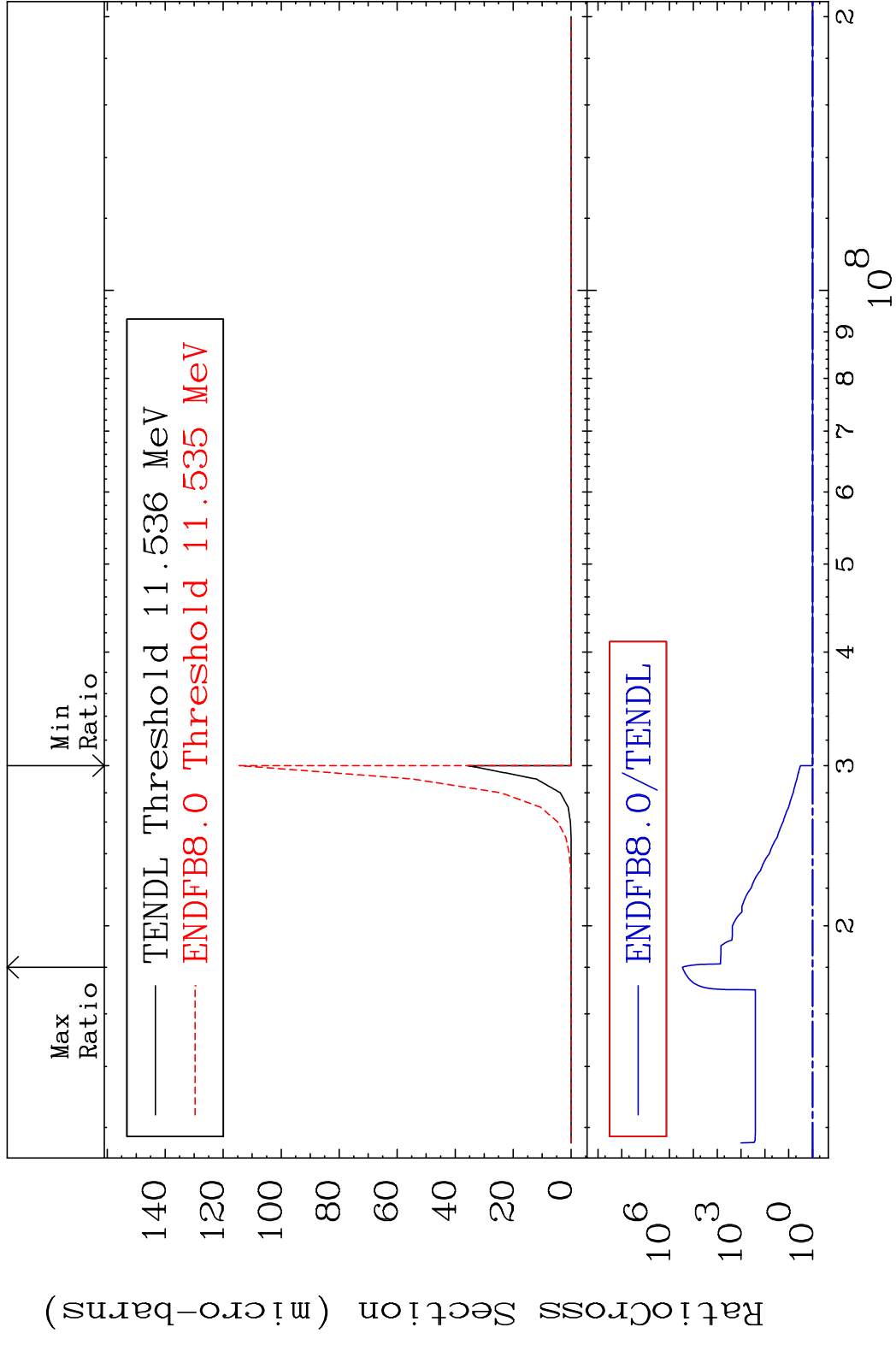


8

Incident Energy (eV)

77-Ir-192

MAT 7728 (n,3n)  $\alpha$  77-Ir-192  
 Cross Section 0.000 To 9999. %

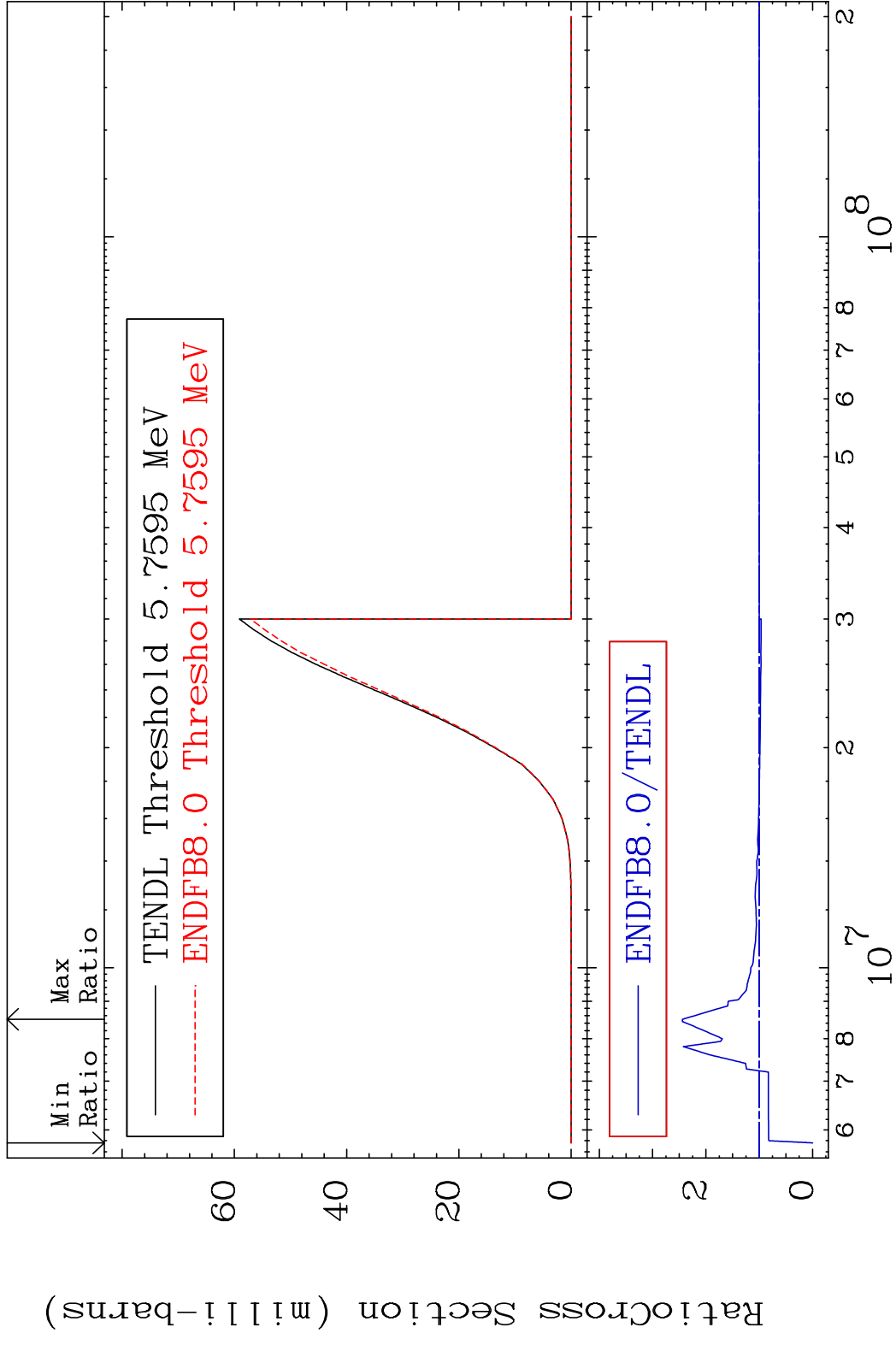


MAT 7728

(n, n') p

77-Ir-192

Cross Section -100.0 To 144.2 %



10

Incident Energy (eV)

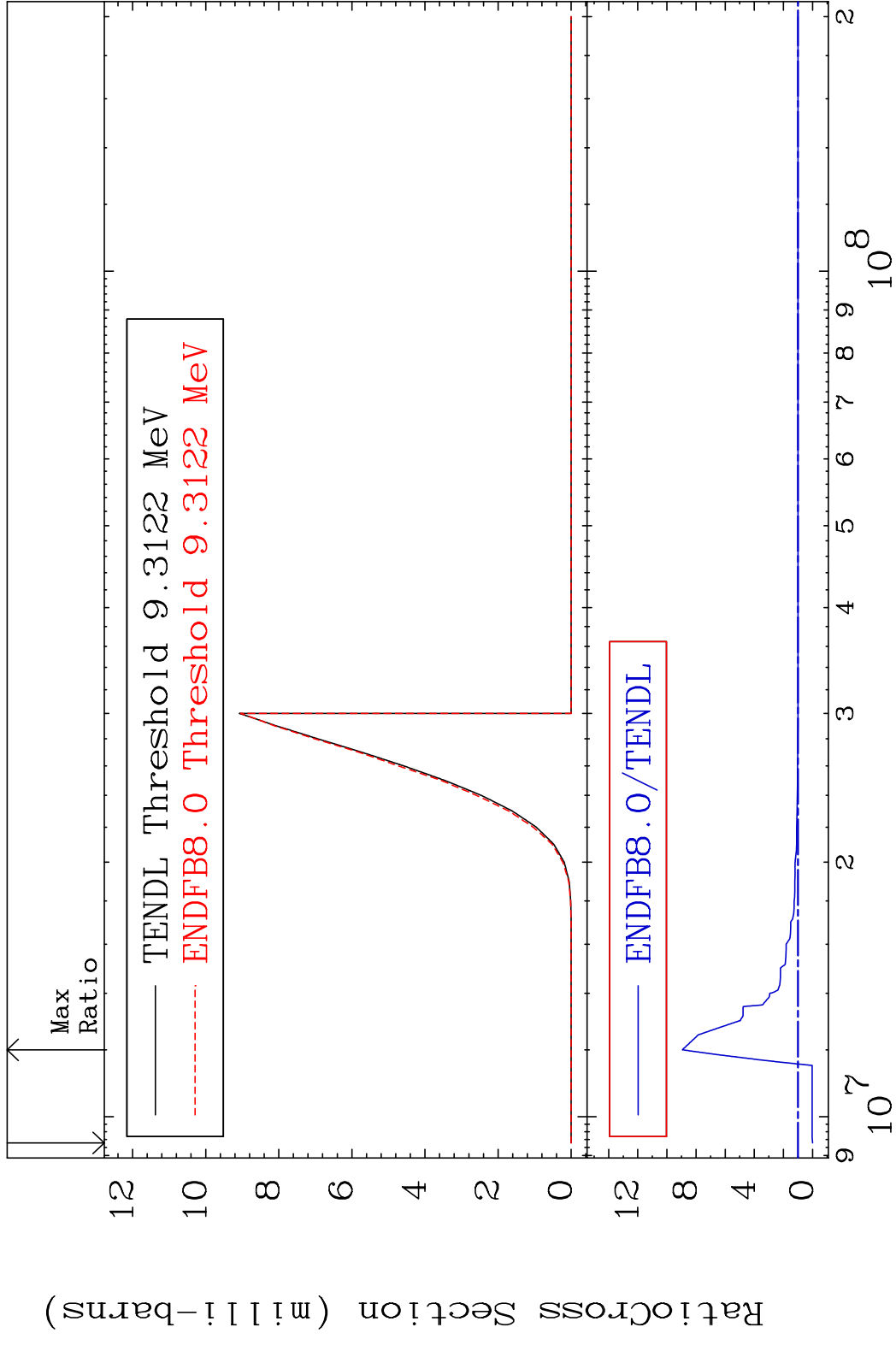
77-Ir-192

MAT 7728

(n, n') d

77-Ir-192

Cross Section -100.0 To 794.0 %

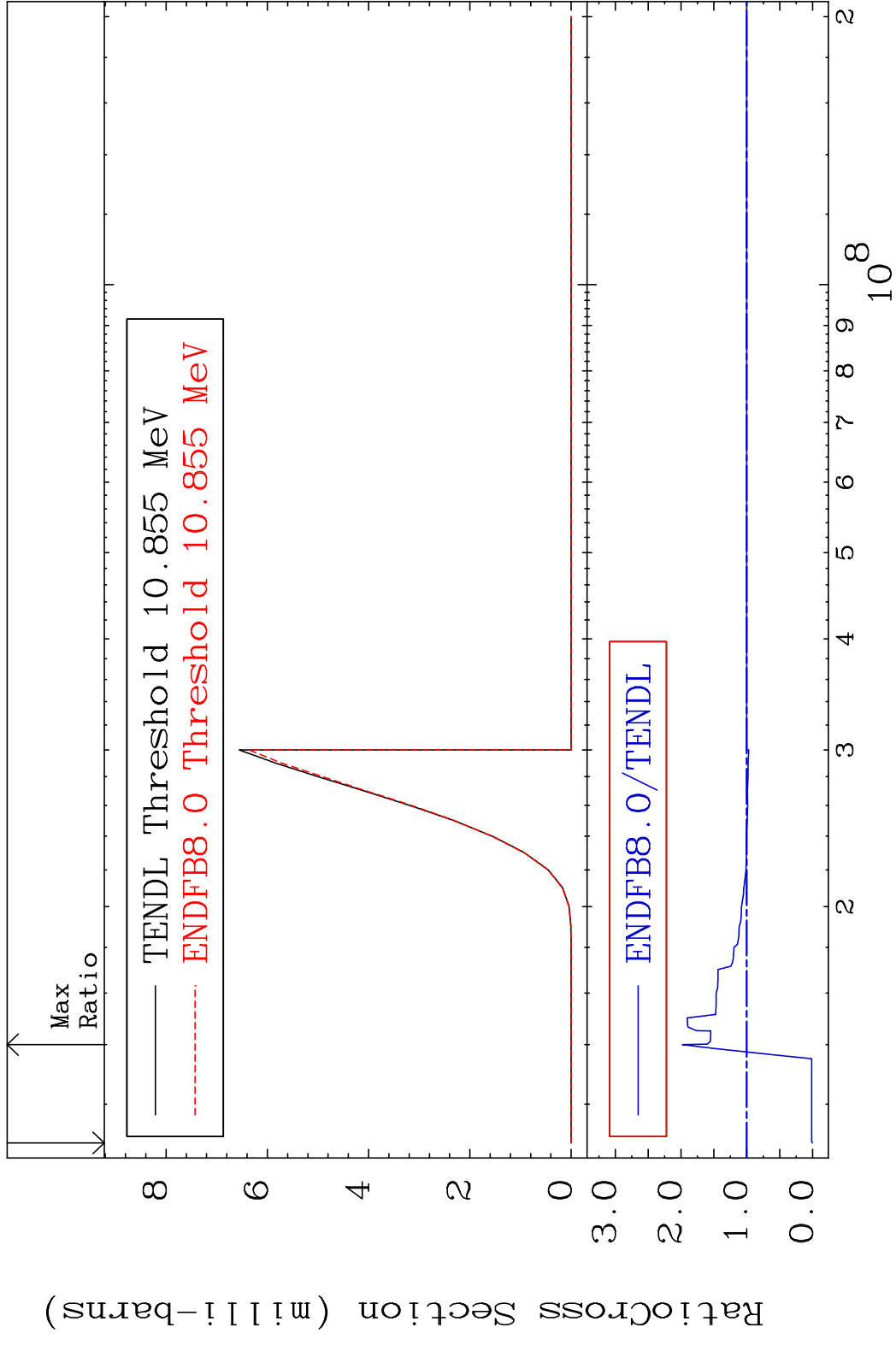


11

Incident Energy (eV)

77-Ir-192

MAT 7728 (n, n') t 77-Ir-192  
 Cross Section -100.0 To 98.00 %

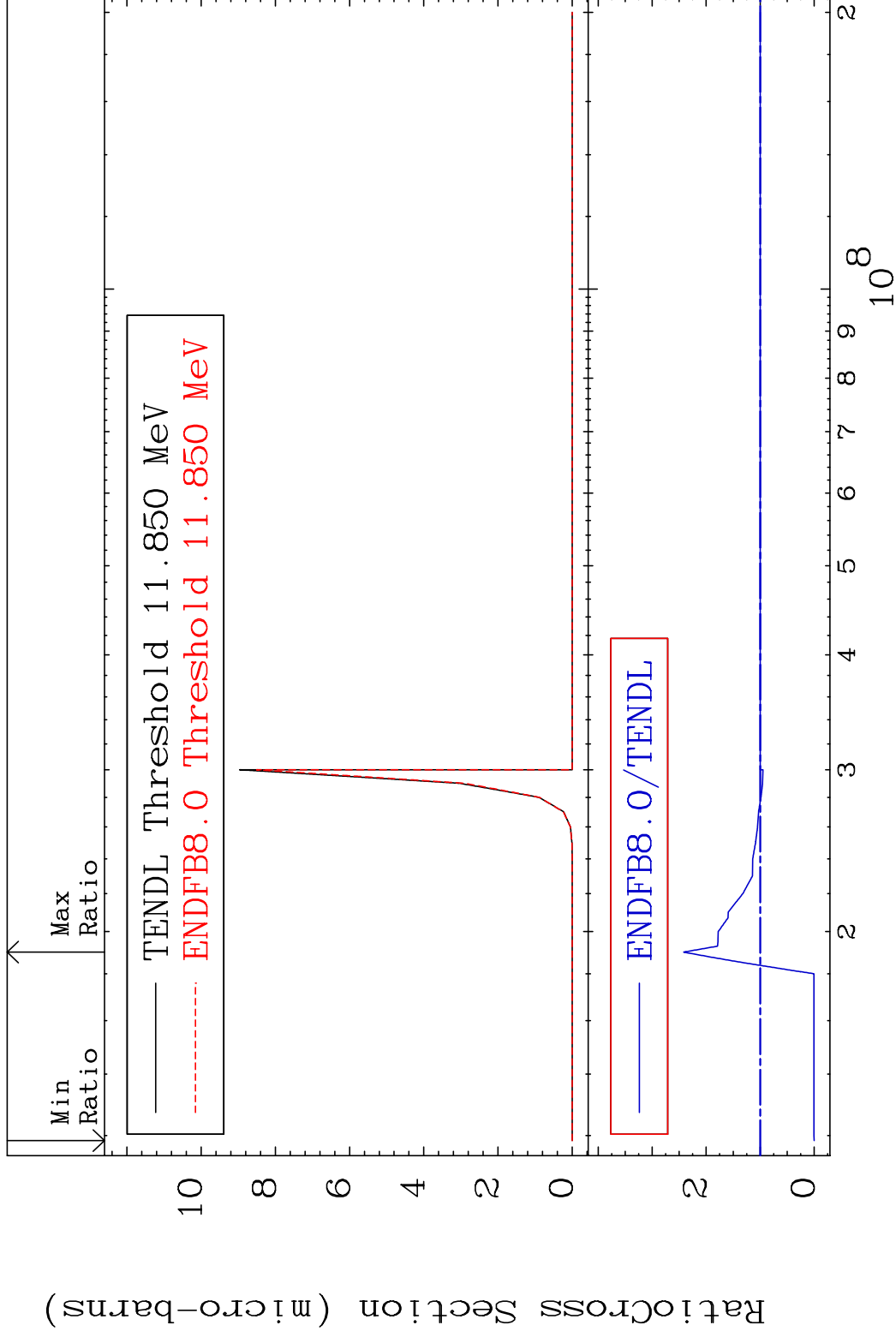


MAT 7728

(n,n') He-3

77-Ir-192

Cross Section -100.0 To 141.7 %

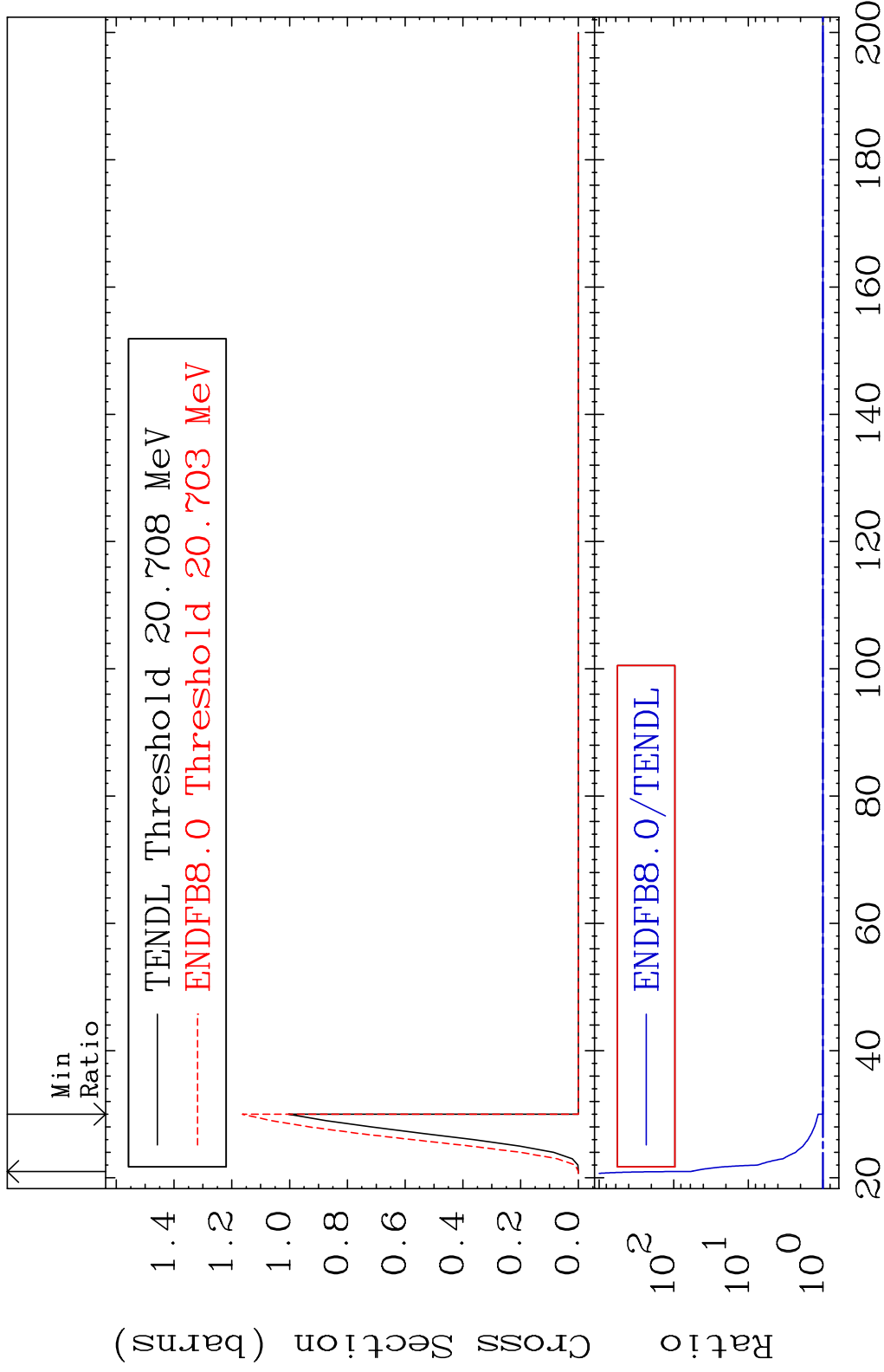


MAT 7728

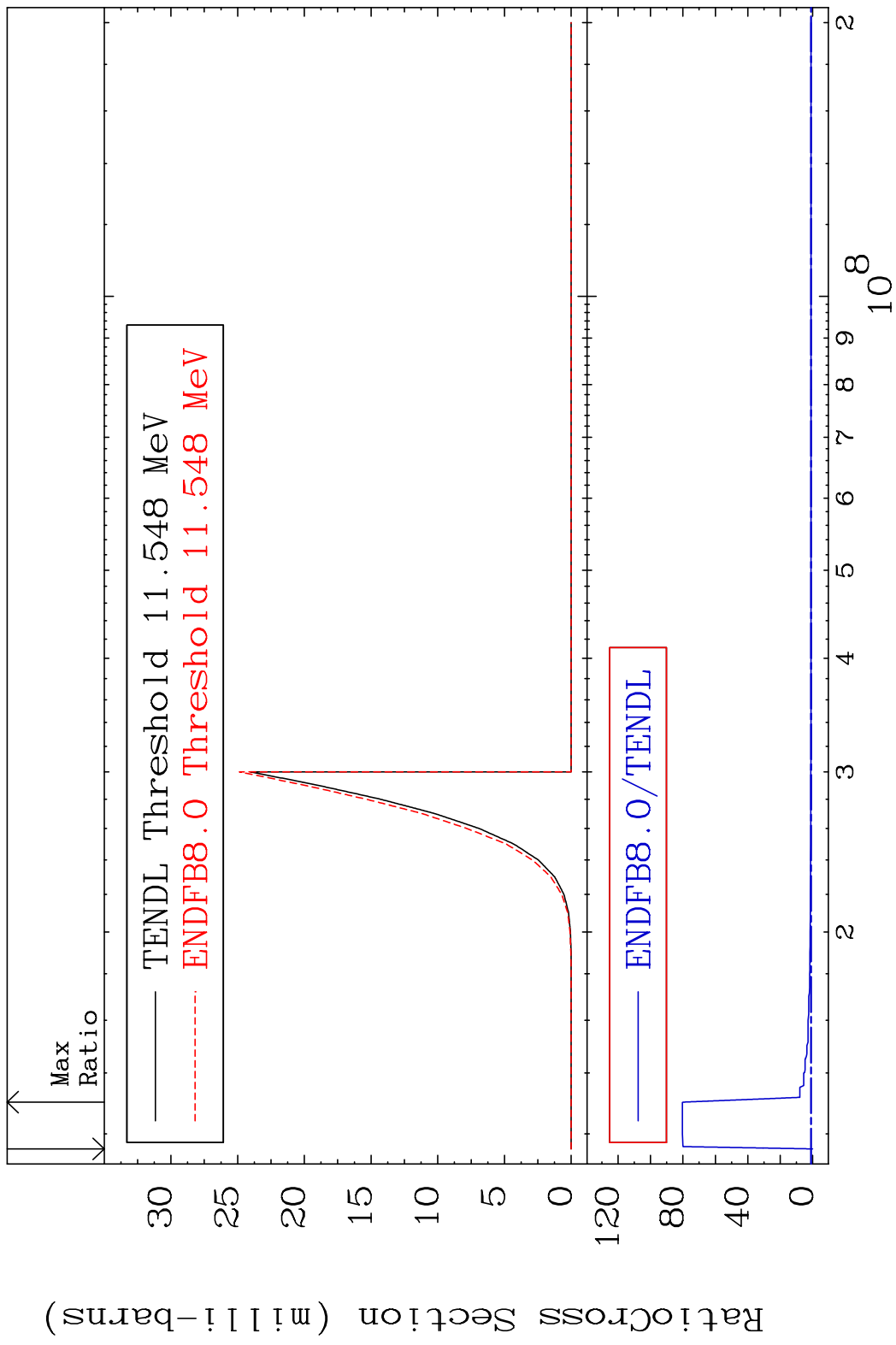
(n,4n)

77-Ir-192

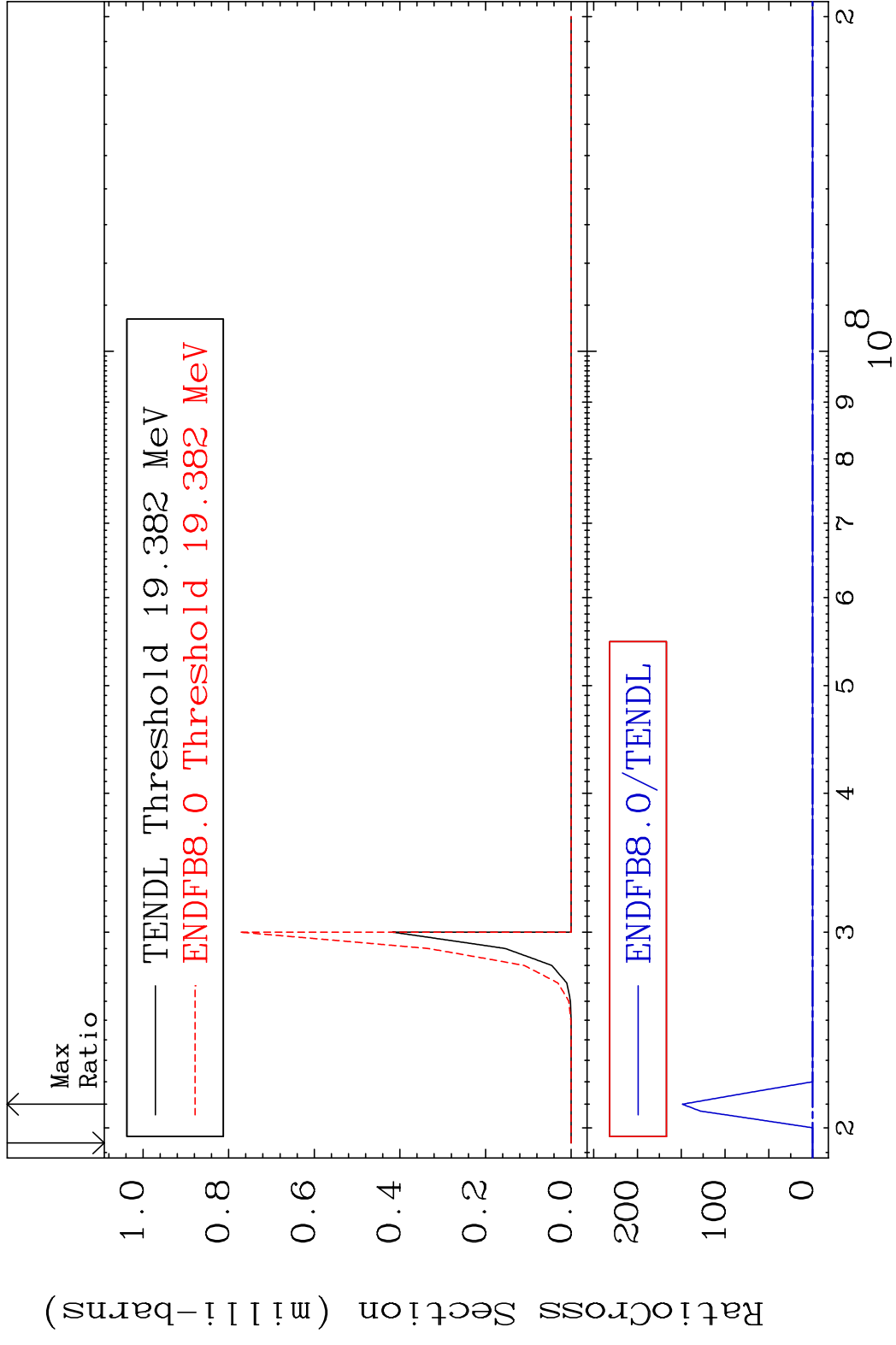
Cross Section 0.000 To 5760. %



MAT 7728 (n,2n) p 77-Ir-192  
 Cross Section -100.0 To 7936. %



MAT 7728 (n,3n) p 77-Ir-192  
 Cross Section -100.0 To 9999. %

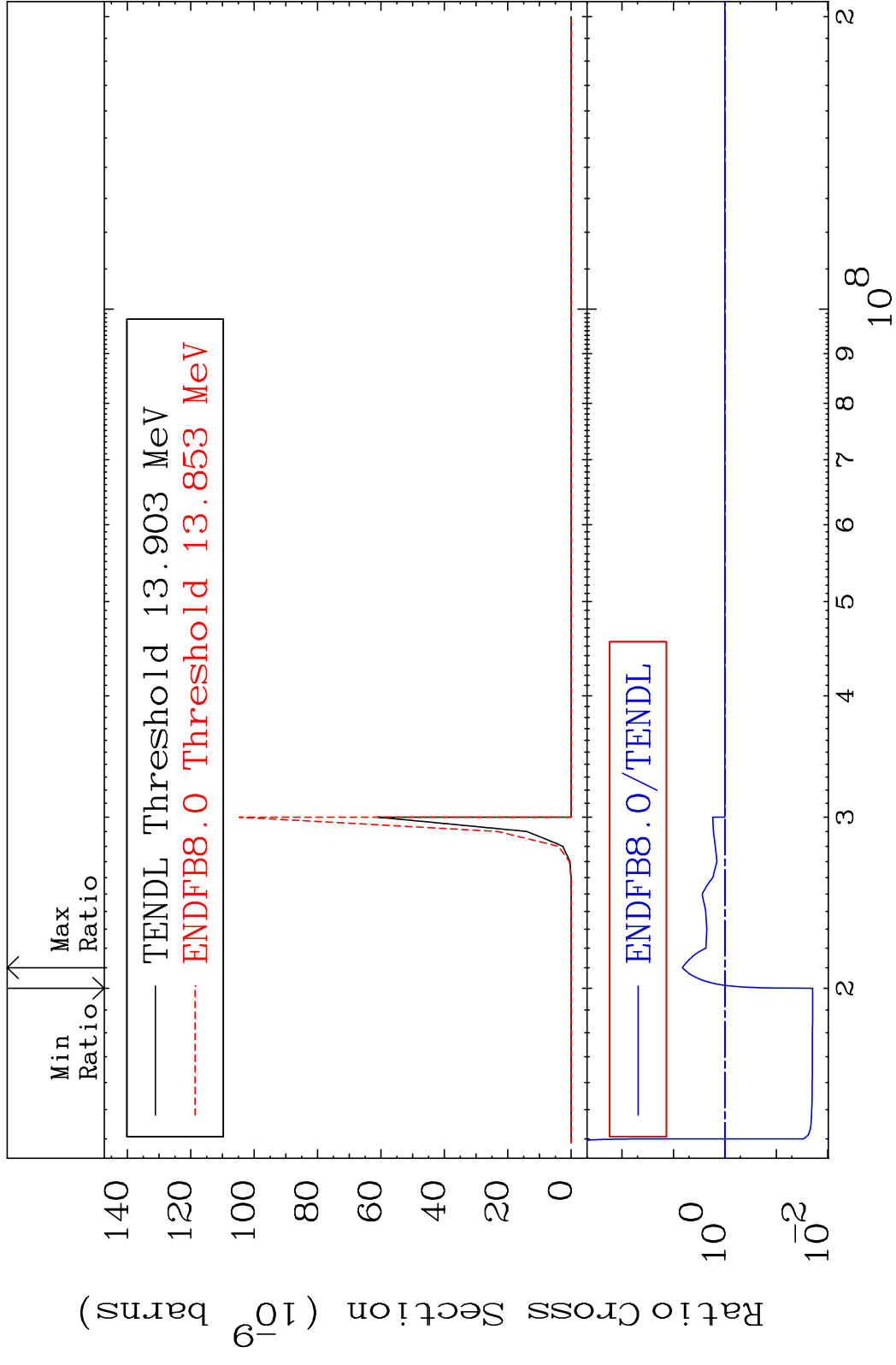


MAT 7728

(n,2n) p

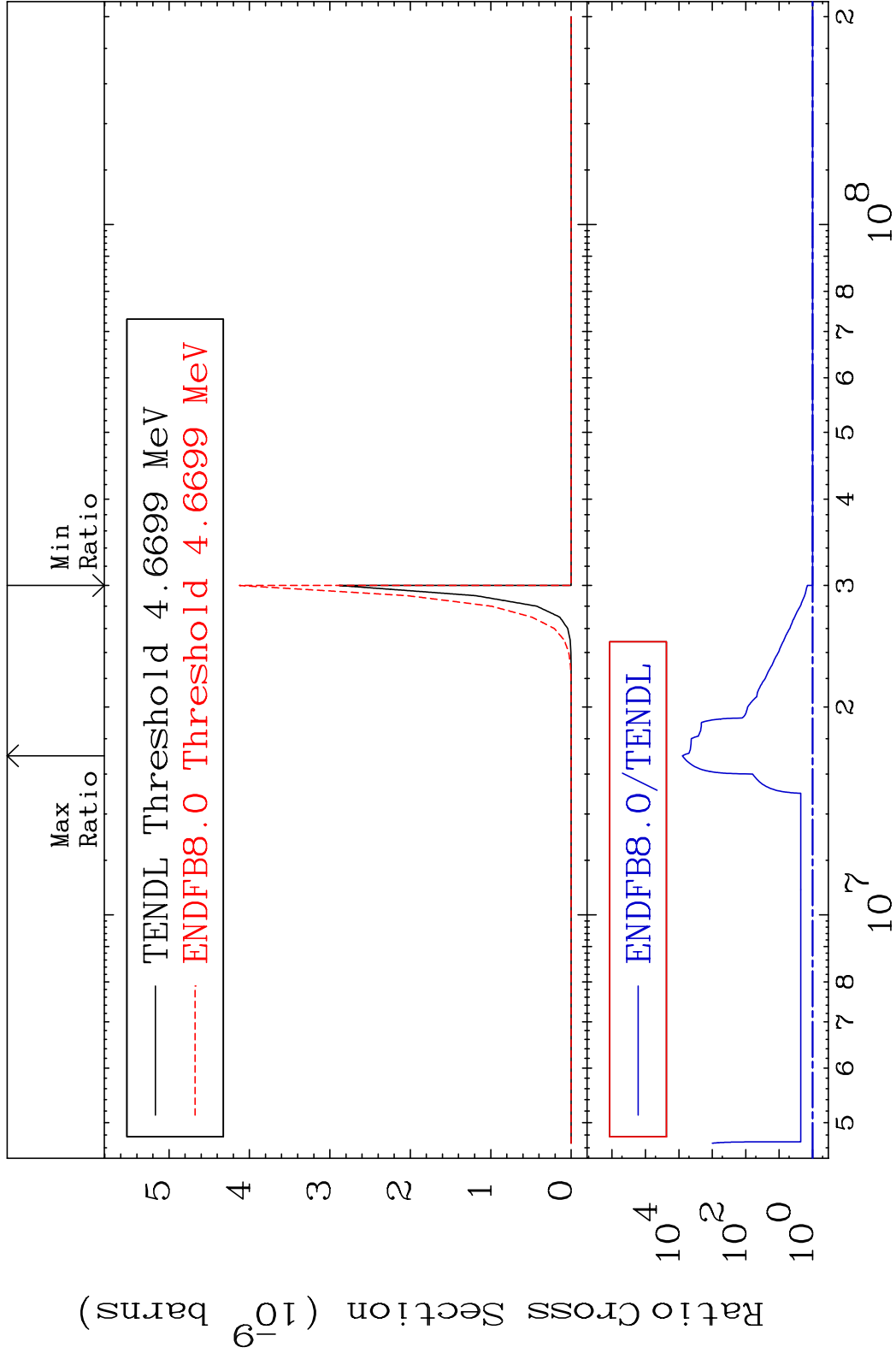
77-Ir-192

Cross Section -98.02 To 570.0 %

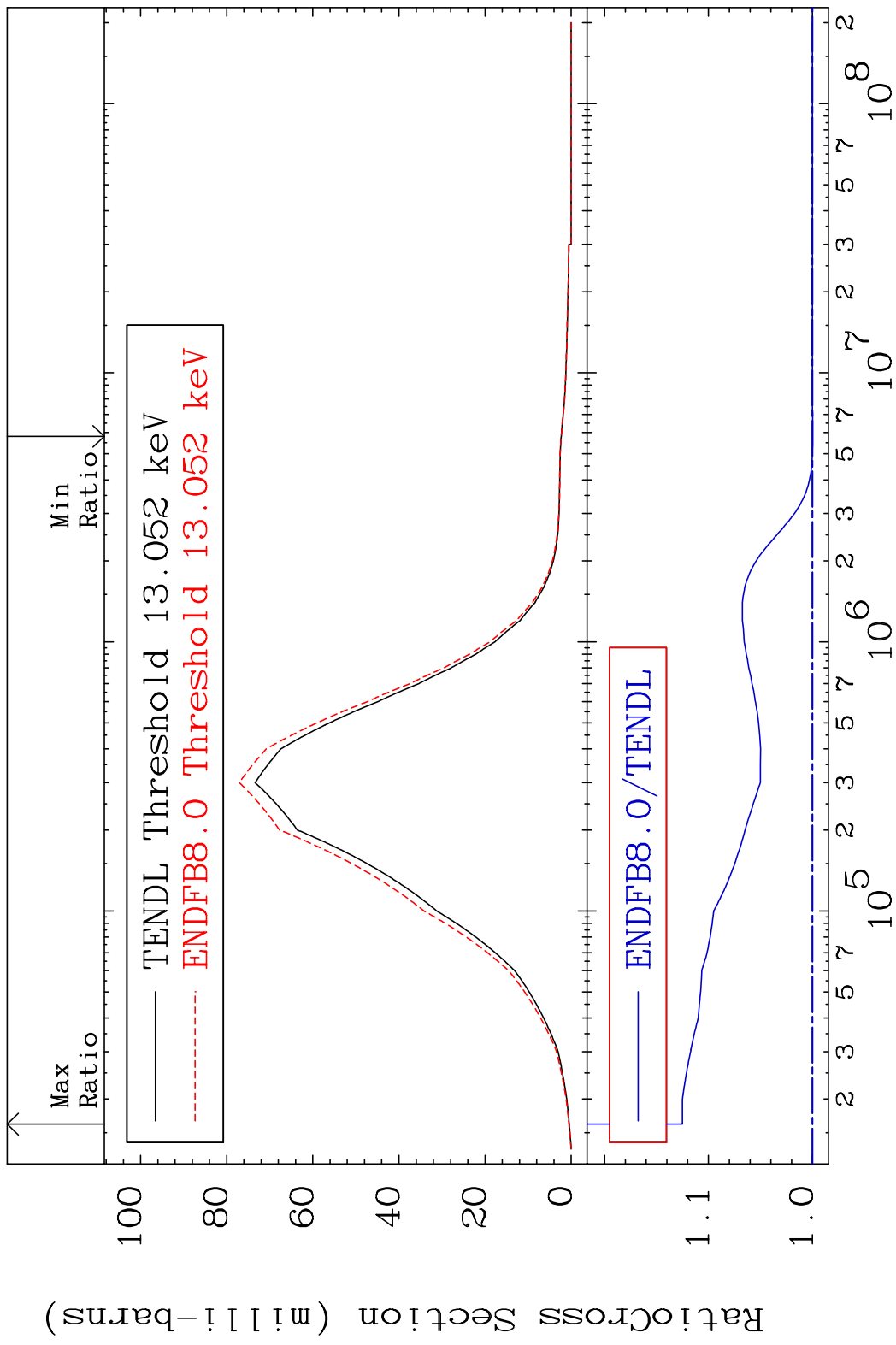


MAT 7728

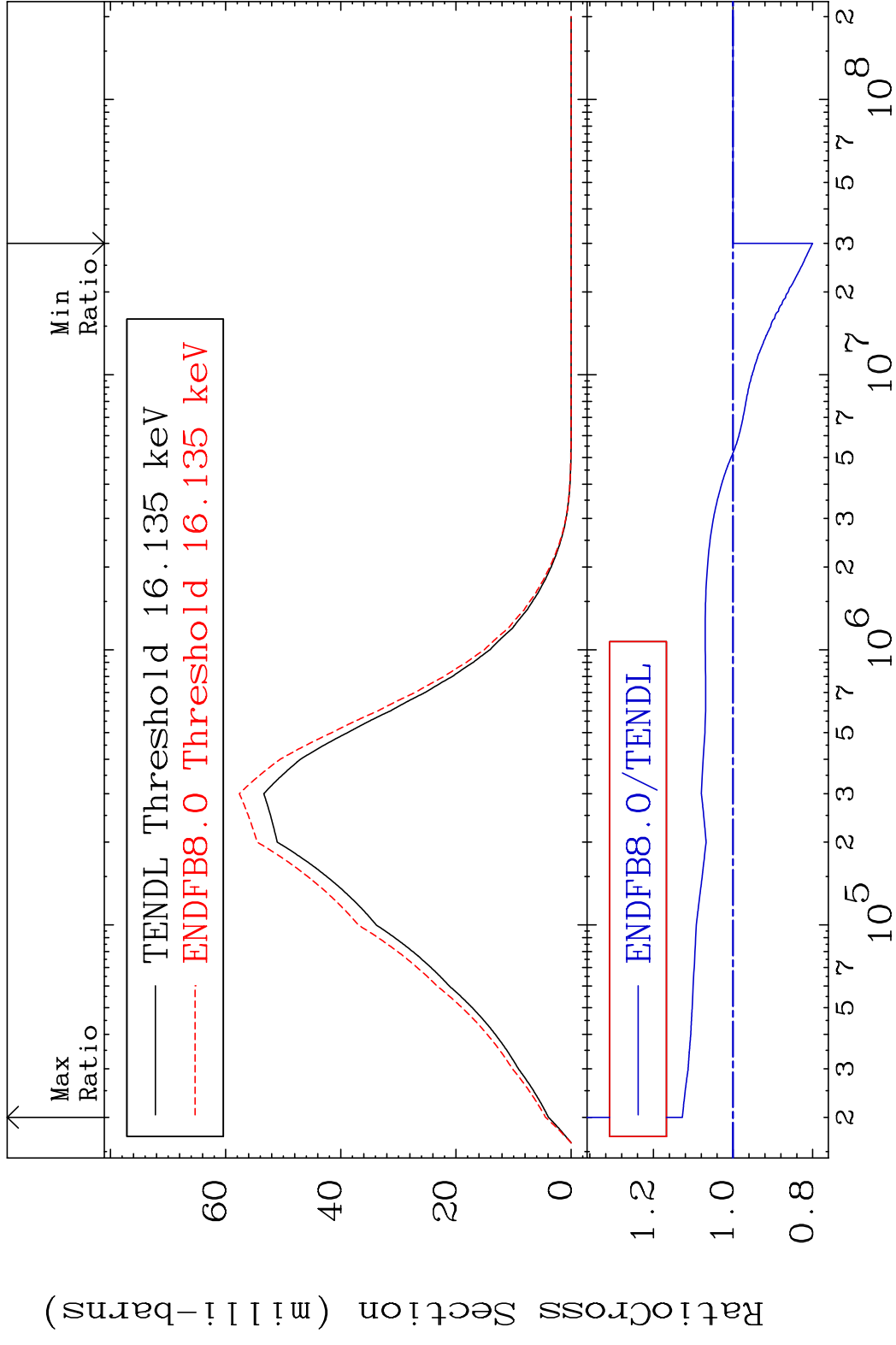
(n,n') p  $\alpha$   
Cross Section 0.000 To 9999. %



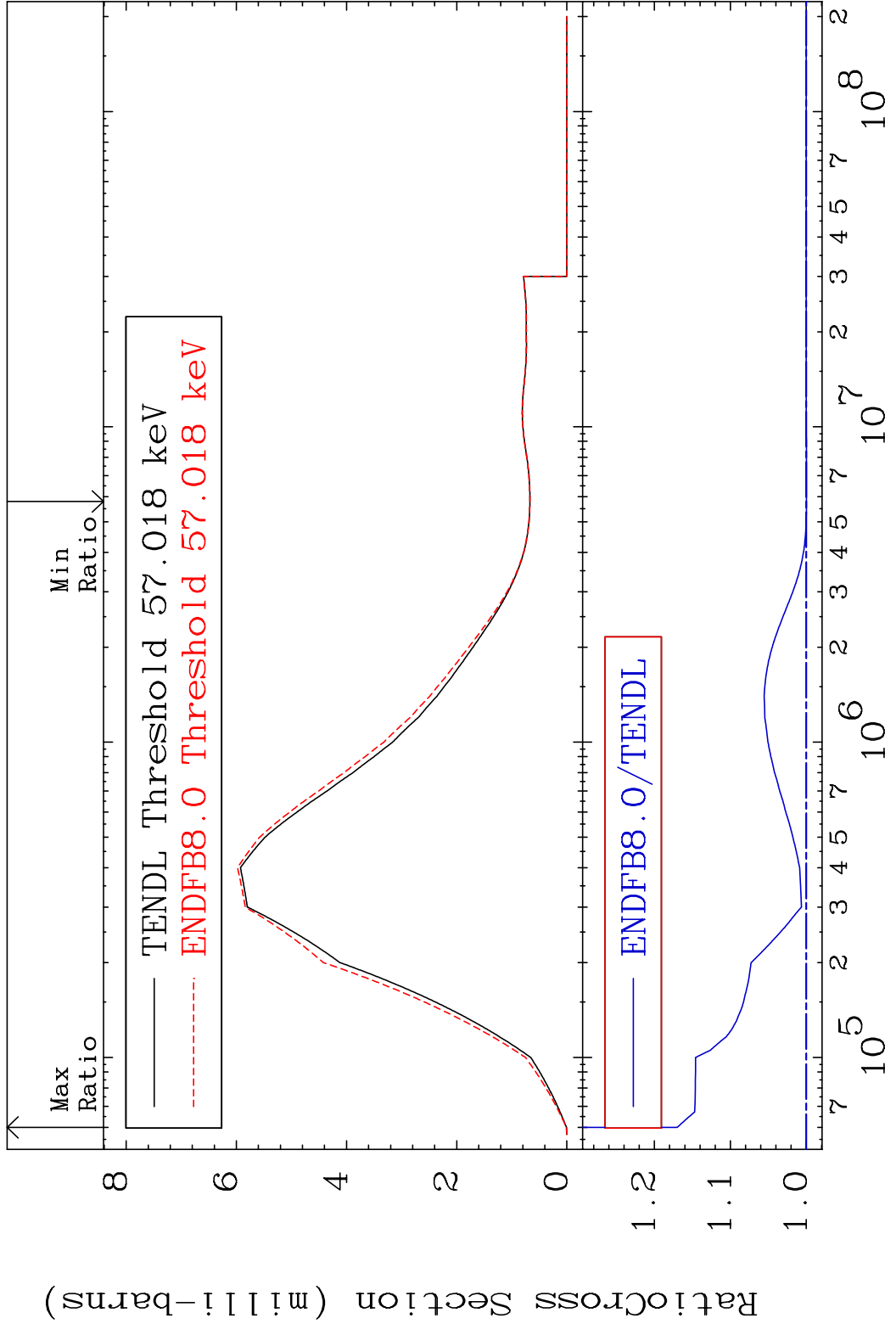
MAT 7728 MT= 51 (n,n') Level 77-Ir-192  
 Cross Section -0.009 To 12.51 %



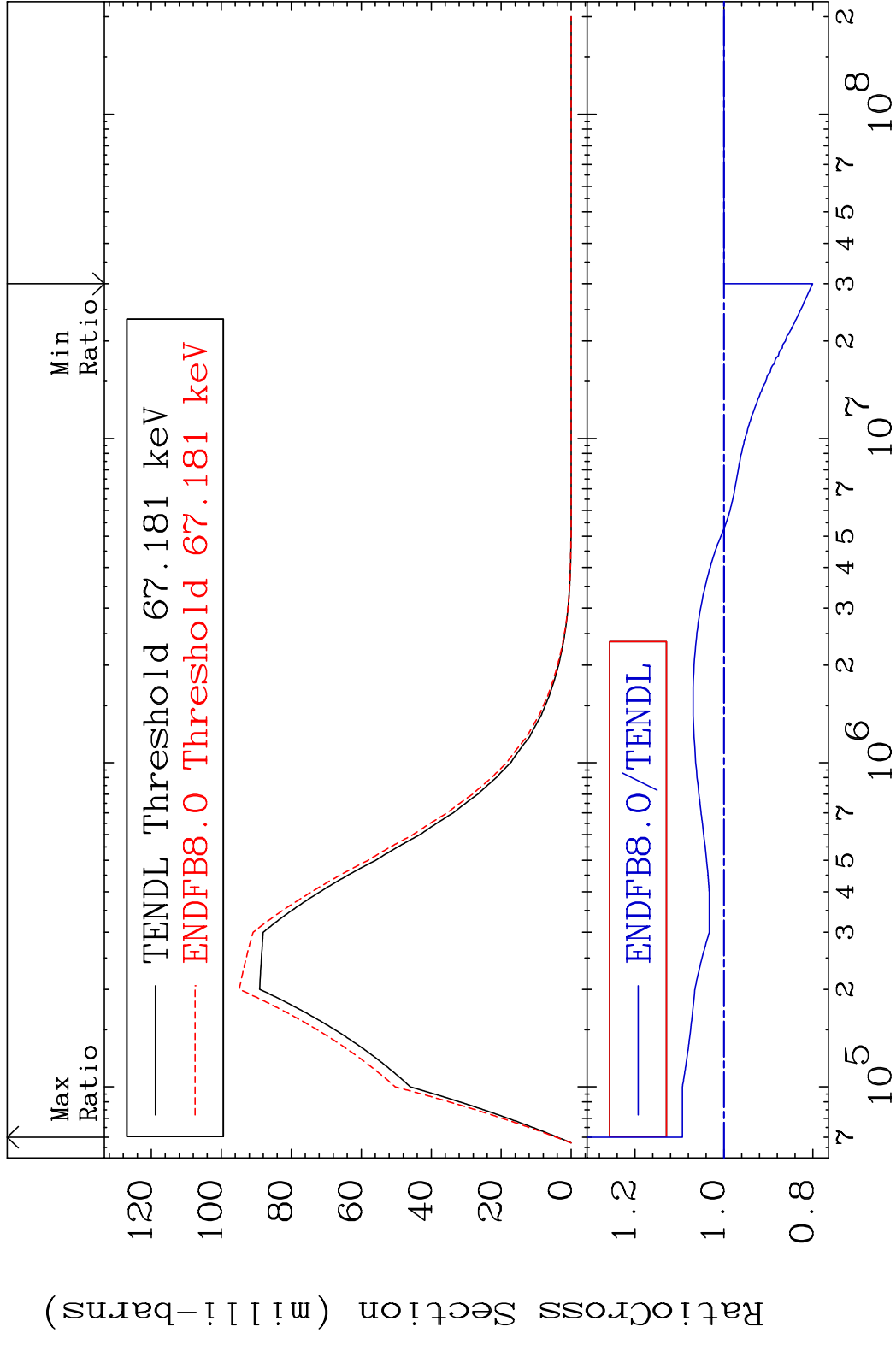
MAT 7728 MT= 52 (n,n') Level 77-Ir-192  
 Cross Section -19.96 To 12.75 %



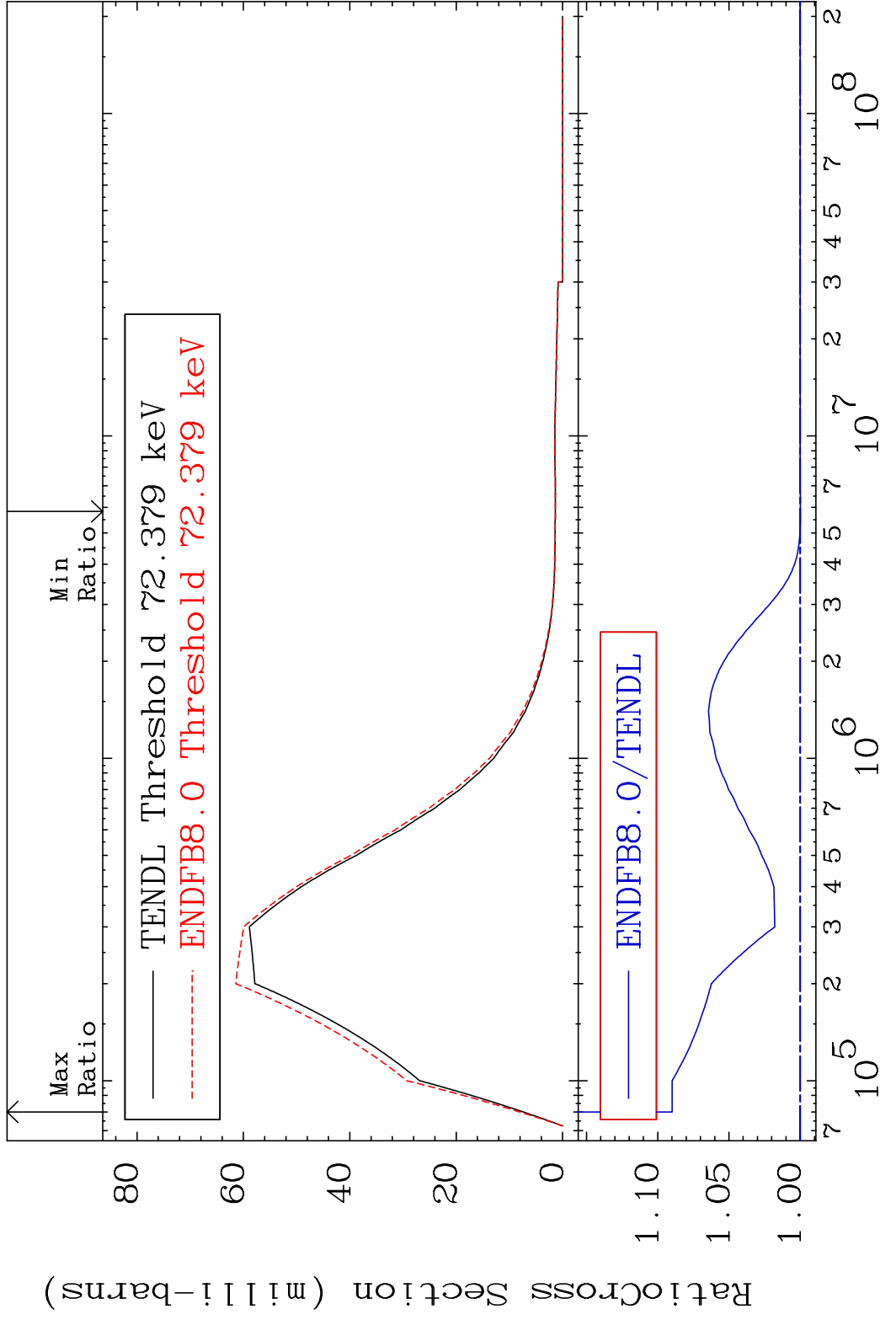
MAT 7728 MT= 53 (n, n') Level 77-Ir-192  
 Cross Section -0.009 To 17.00 %



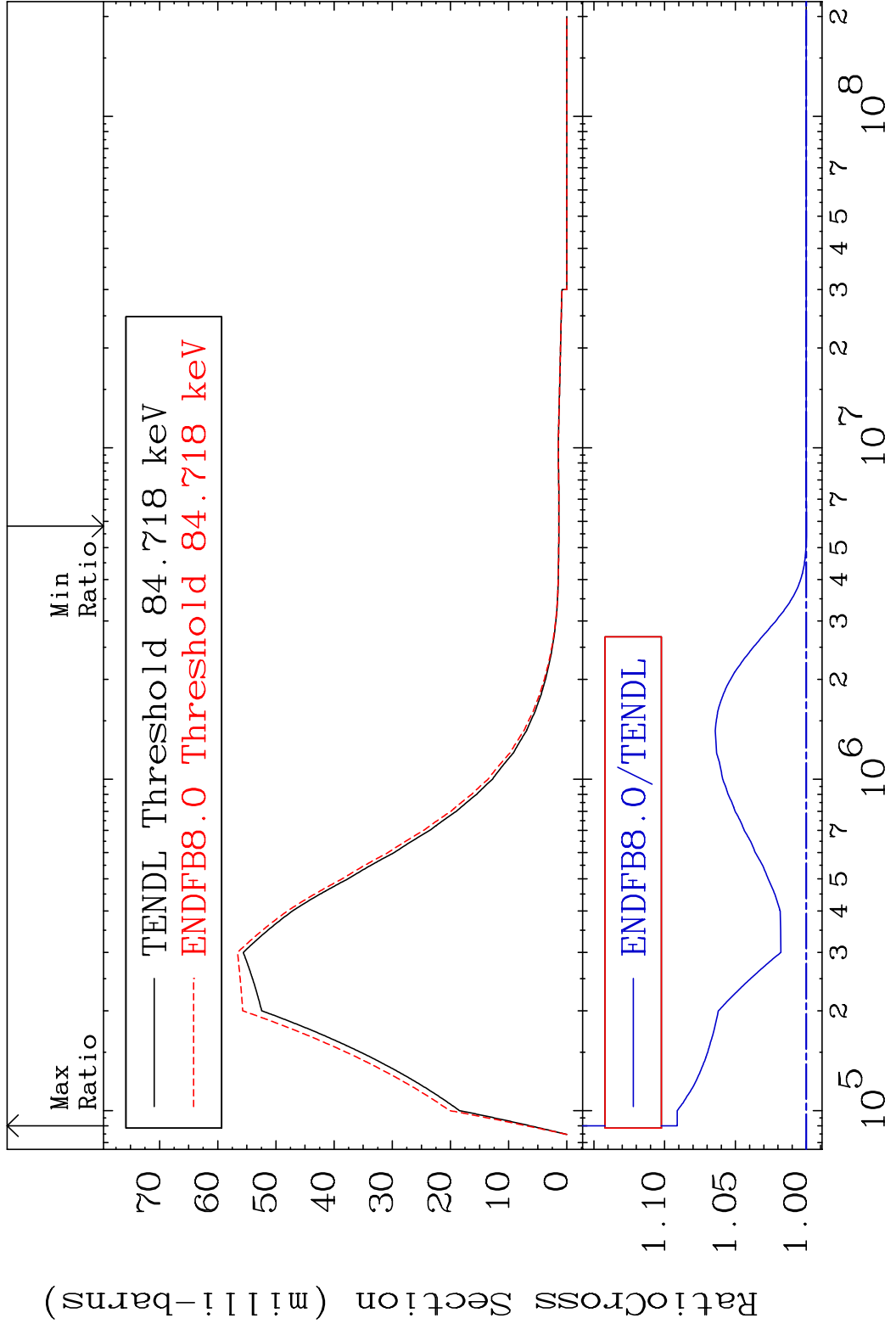
MAT 7728 MT= 54 (n, n') Level 77-Ir-192  
 Cross Section -19.95 To 9.338 %



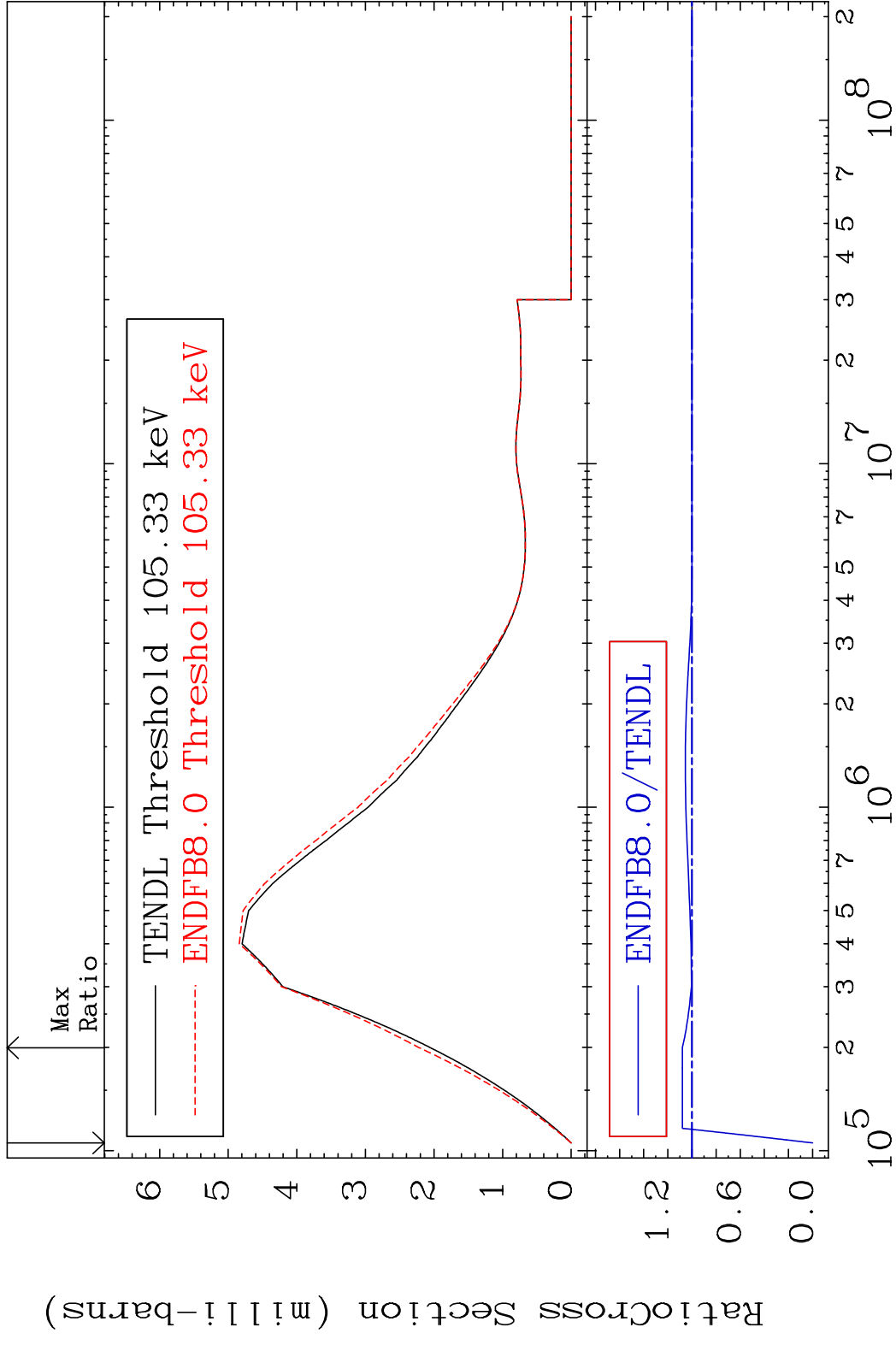
MAT 7728 MT= 55 (n, n') Level 77-Ir-192  
 Cross Section -0.009 To 8.990 %



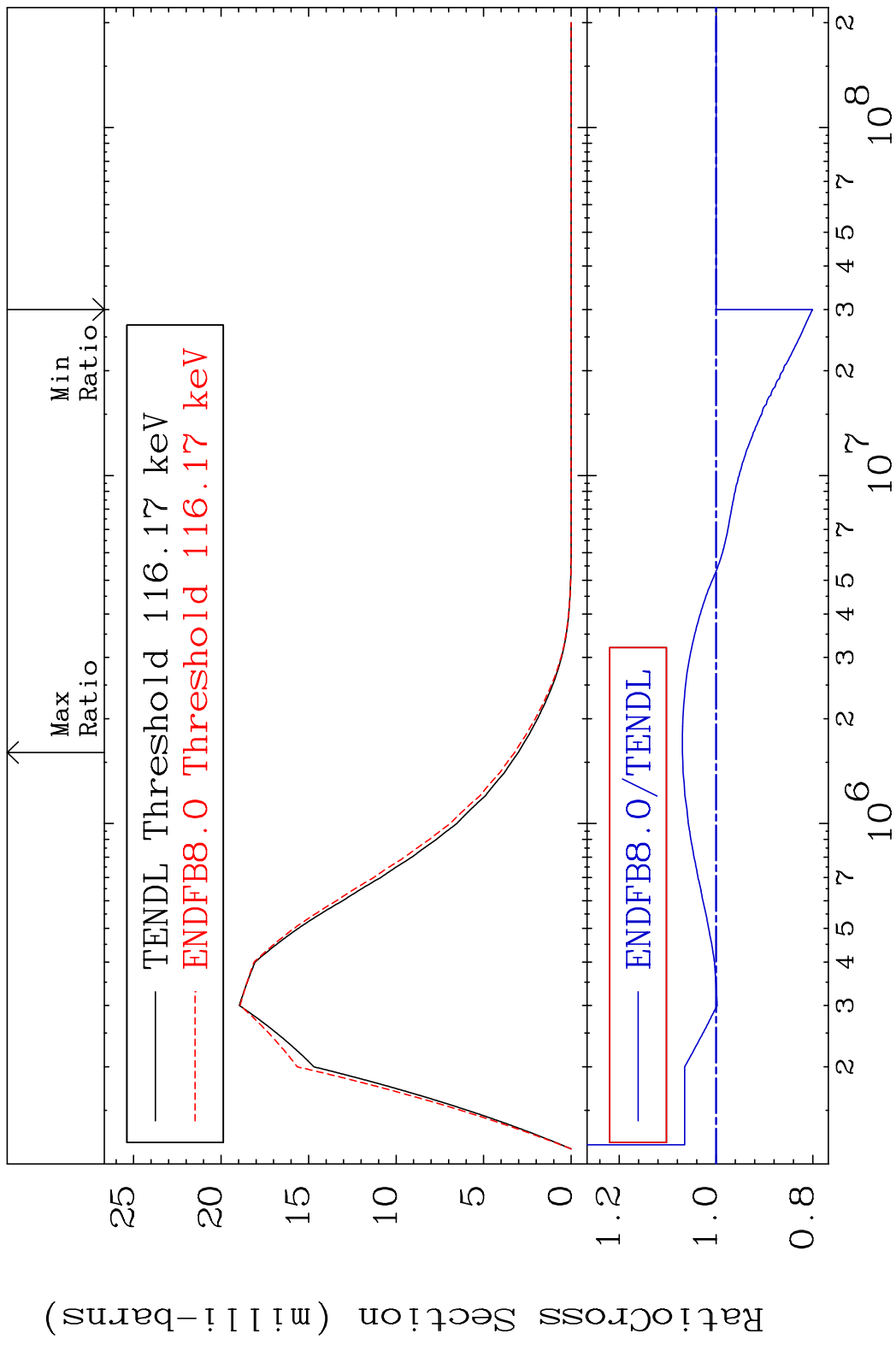
MAT 7728 MT= 56 (n, n') Level 77-Ir-192  
 Cross Section -0.008 To 9.115 %



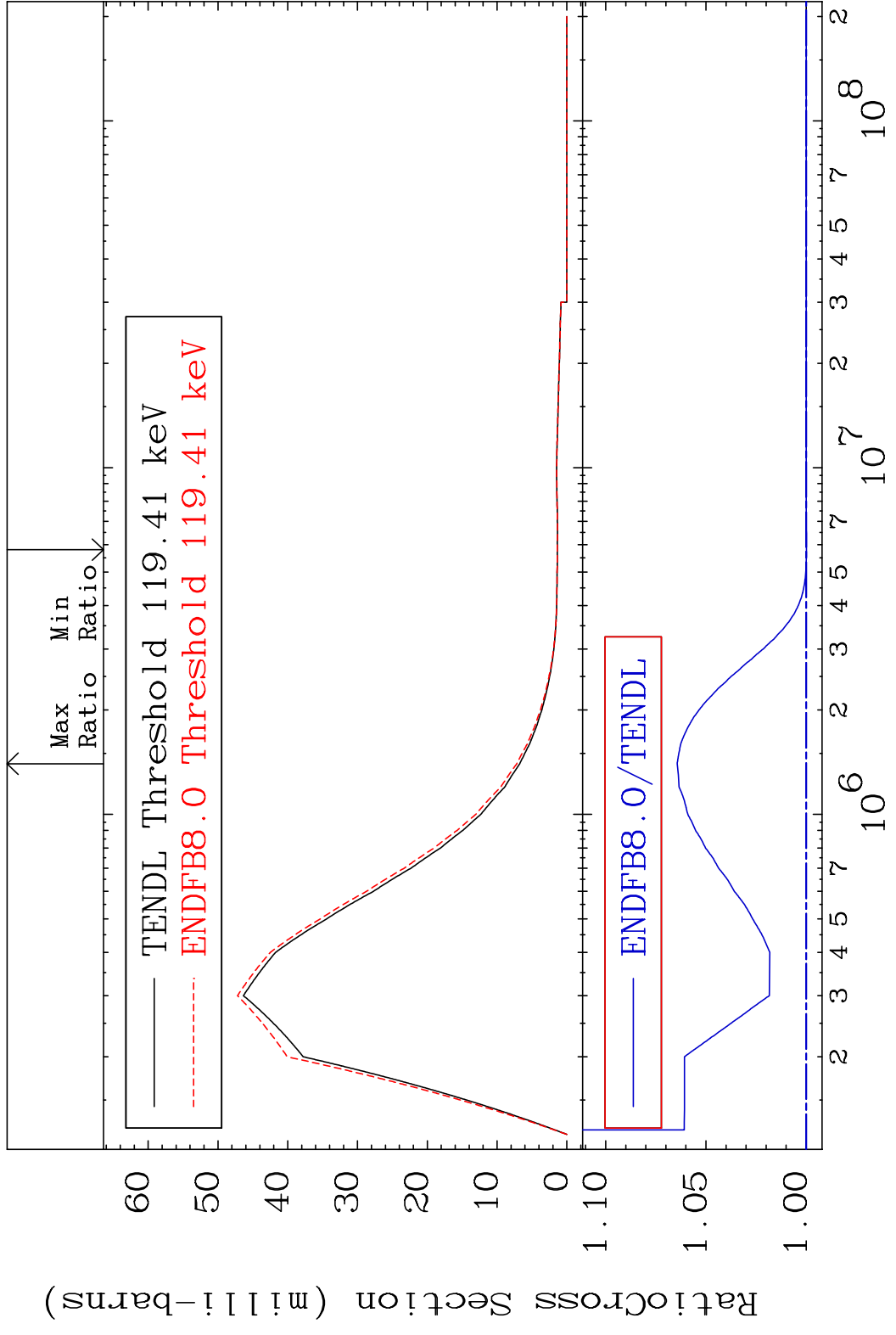
MAT 7728 MT= 57 (n, n') Level 77-Ir-192  
 Cross Section -100.0 To 7.971 %



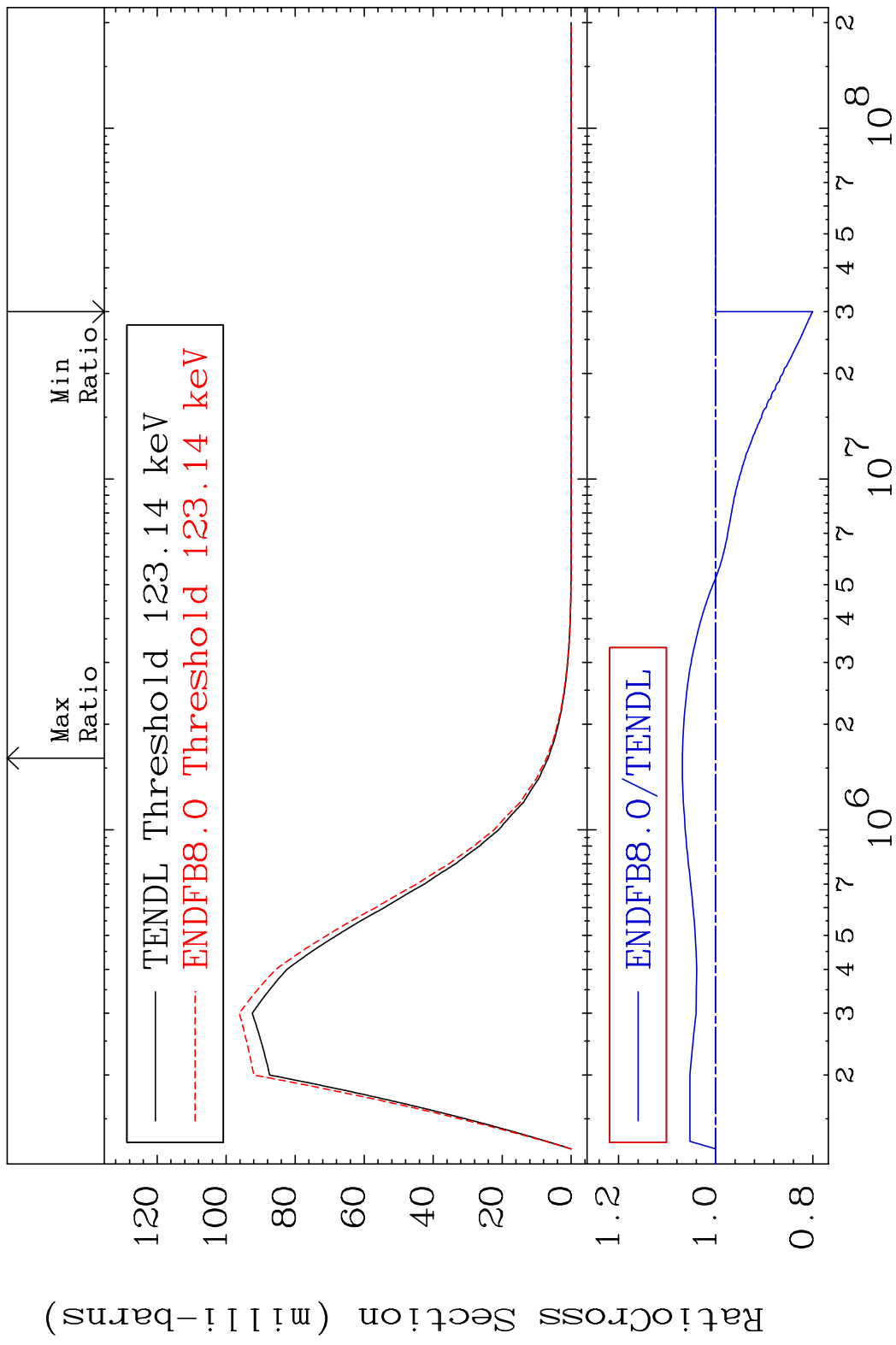
MAT 7728 MT= 58 (n, n') Level 77-Ir-192  
 Cross Section -19.94 To 6.956 %



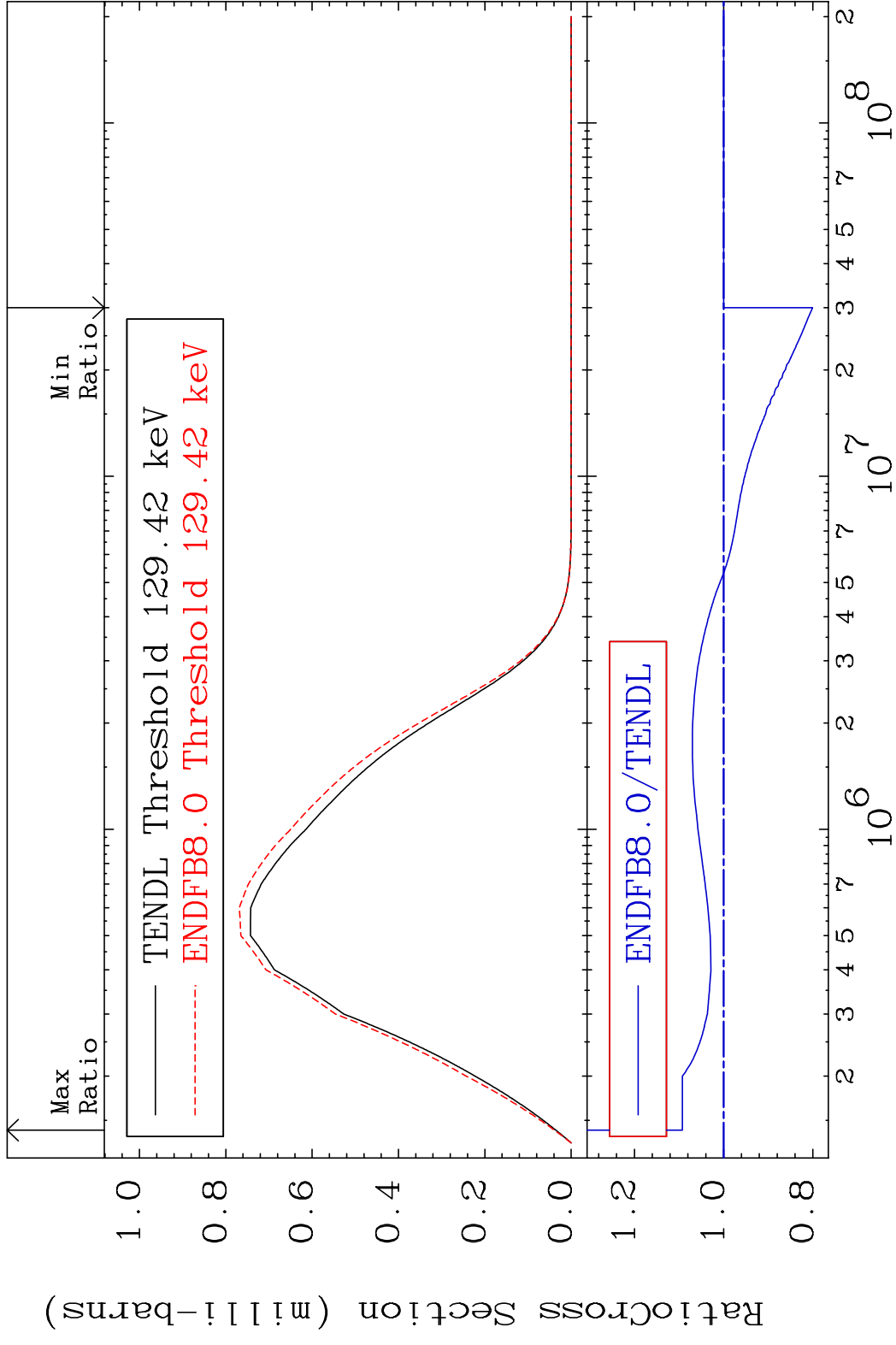
MAT 7728 MT= 59 (n,n') Level 77-Ir-192  
 Cross Section -0.009 To 6.436 %



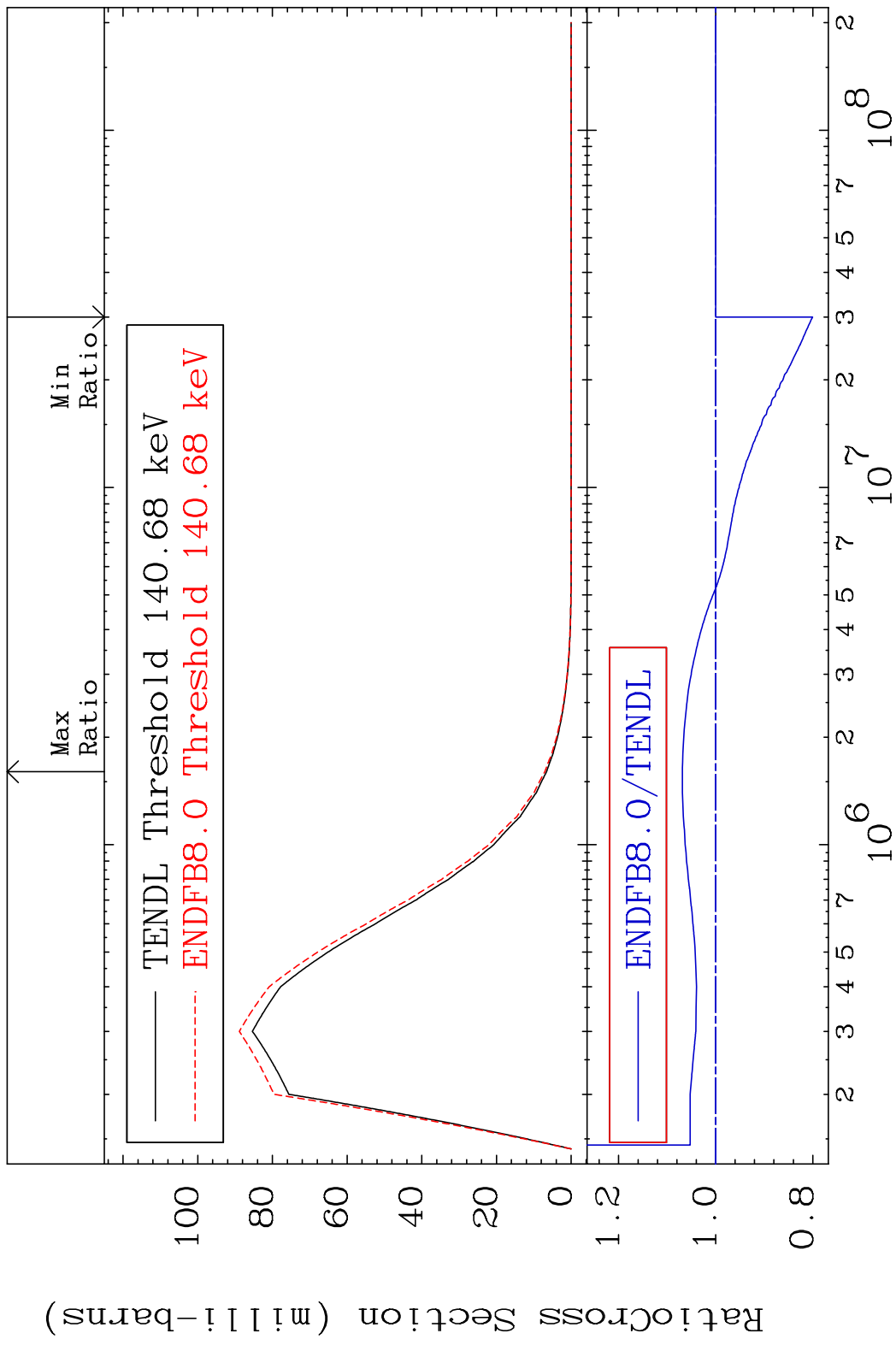
MAT 7728 MT= 60 (n, n') Level 77-Ir-192  
 Cross Section -19.95 To 6.872 %



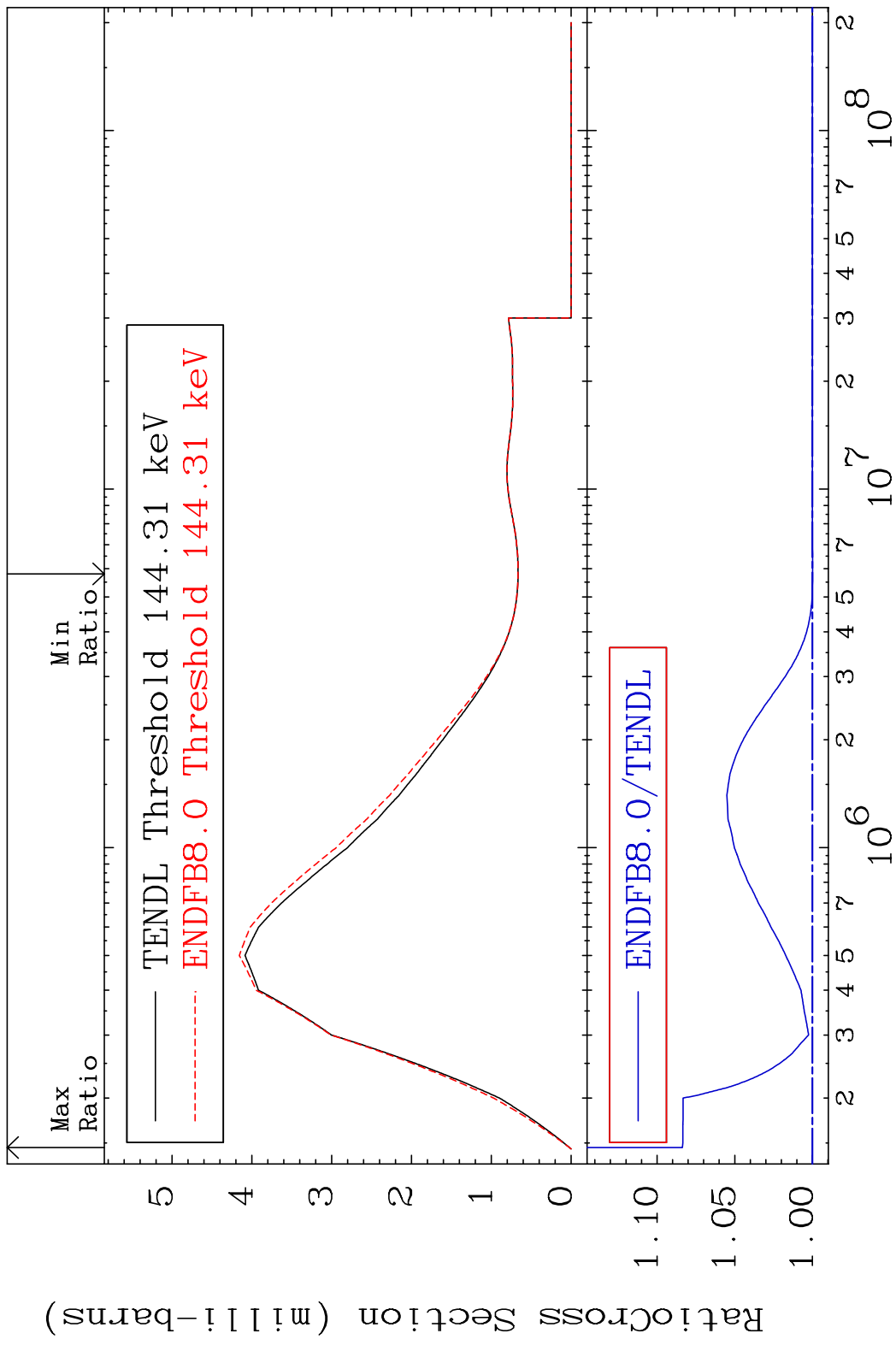
MAT 7728 MT= 61 (n,n') Level 77-Ir-192  
 Cross Section -19.93 To 9.256 %



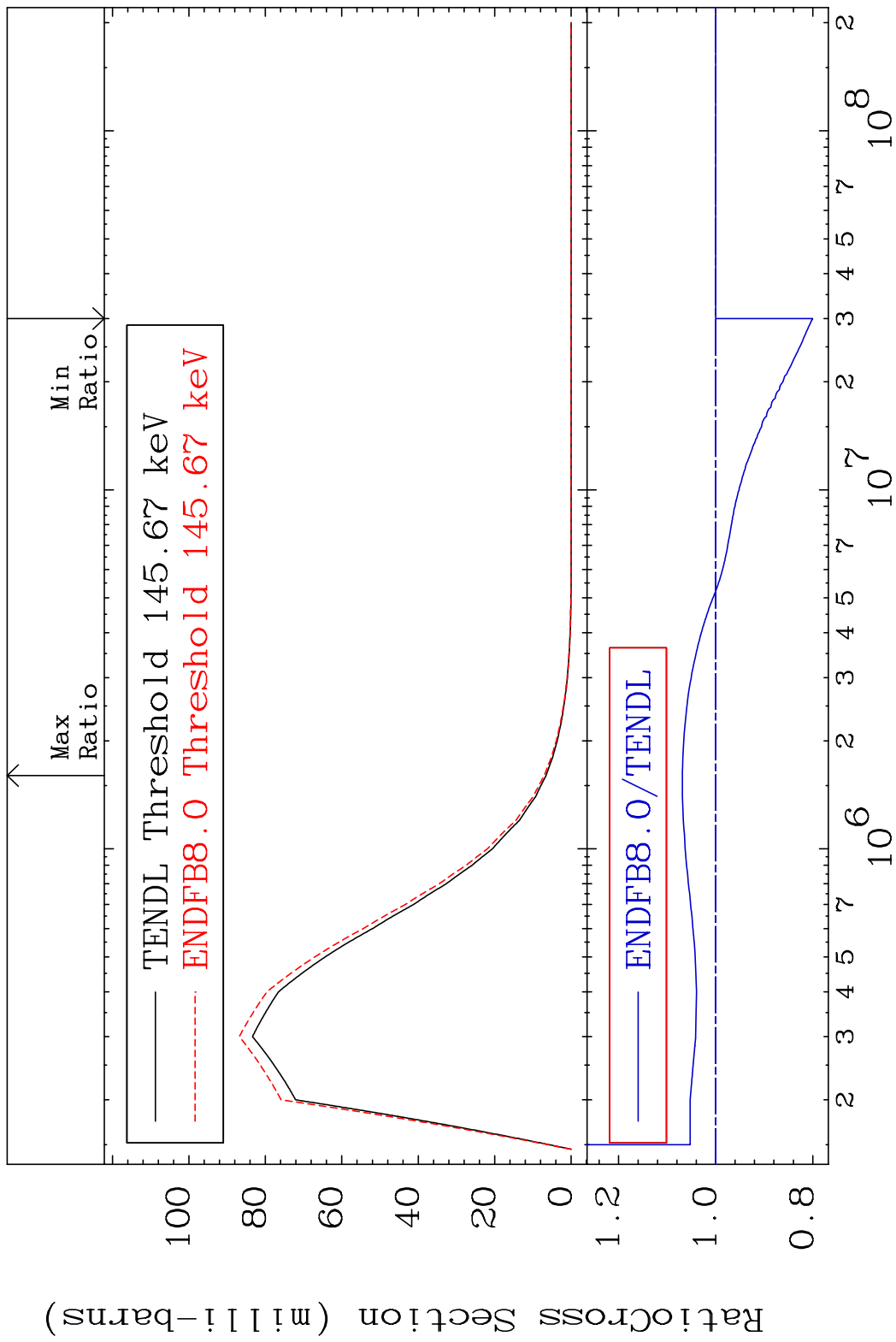
MAT 7728 MT= 62 (n,n') Level 77-Ir-192  
 Cross Section -19.95 To 6.872 %



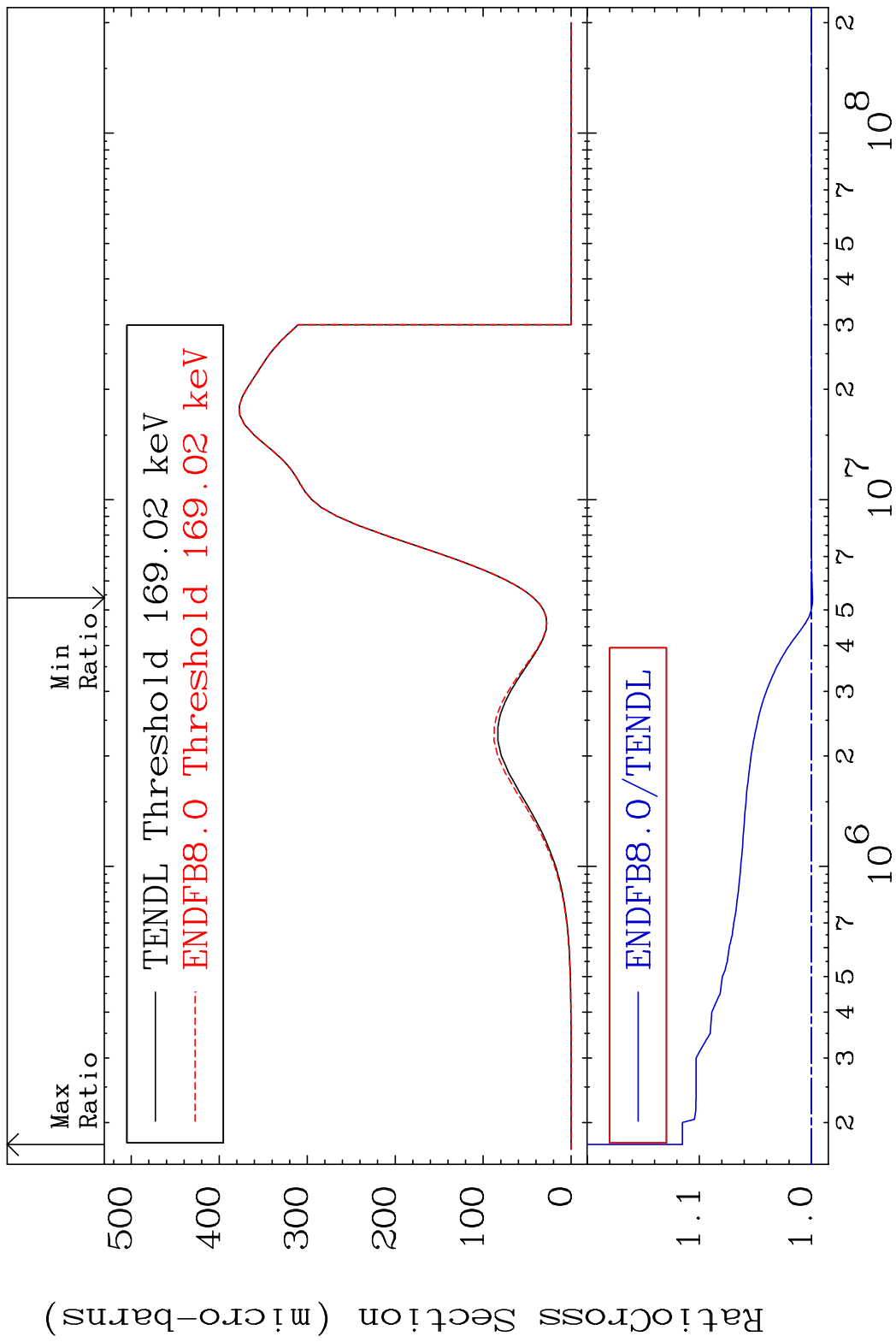
MAT 7728 MT= 63 (n, n') Level 77-Ir-192  
 Cross Section -0.009 To 8.371 %



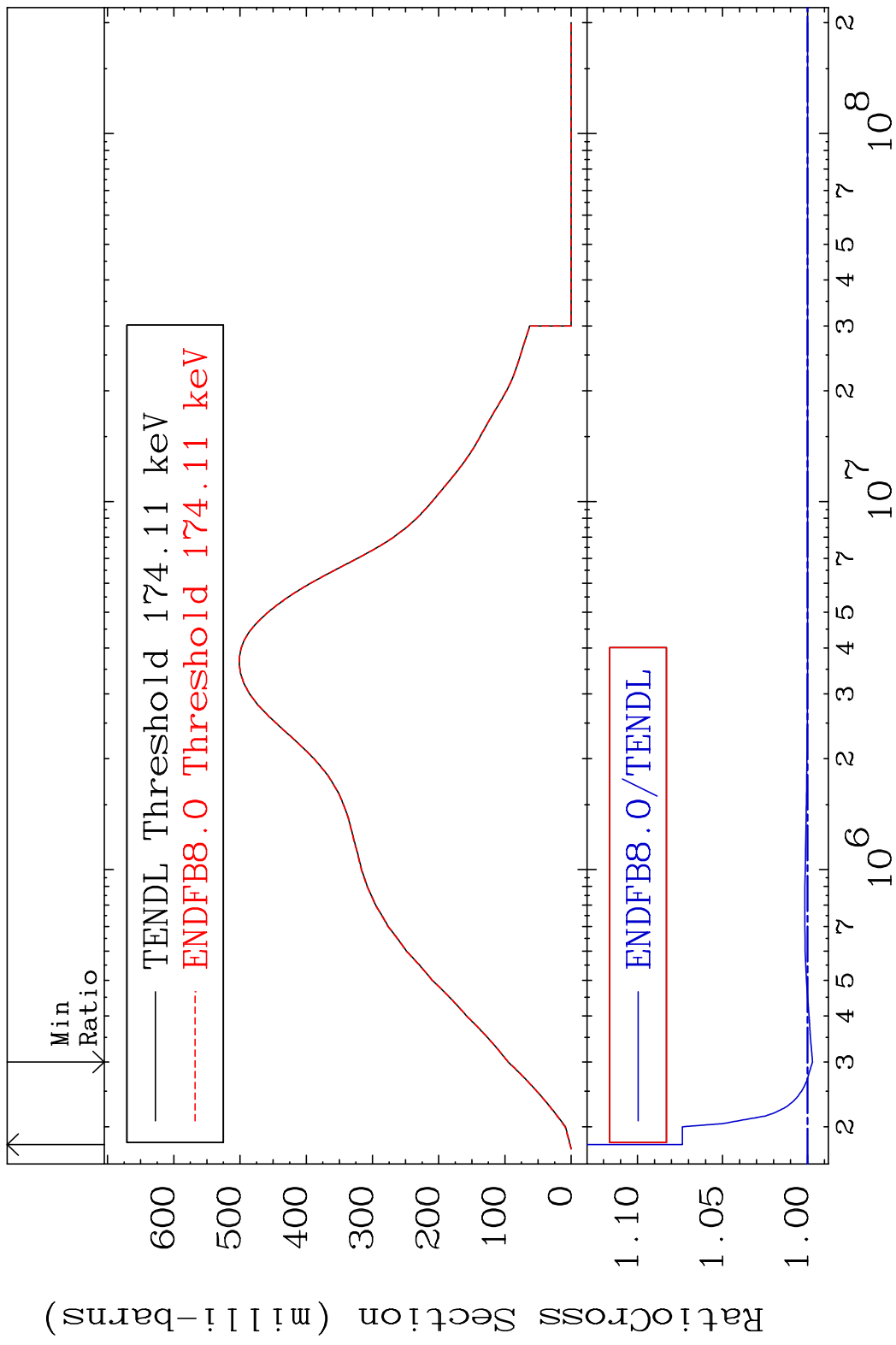
MAT 7728 MT= 64 (n, n') Level 77-Ir-192  
 Cross Section -19.95 To 6.871 %



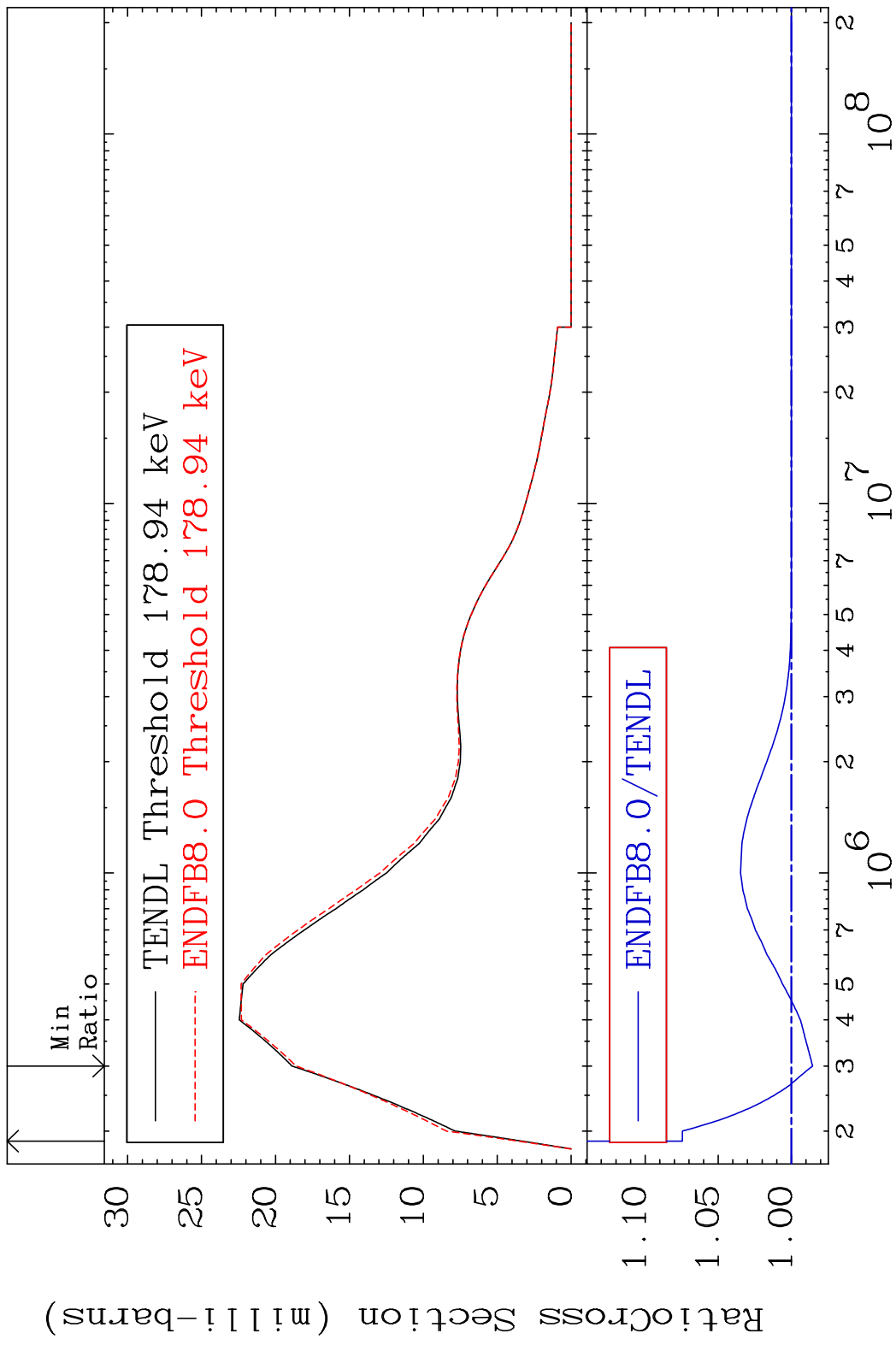
MAT 7728 MT= 65 (n, n') Level 77-Ir-192  
 Cross Section -0.100 To 11.52 %



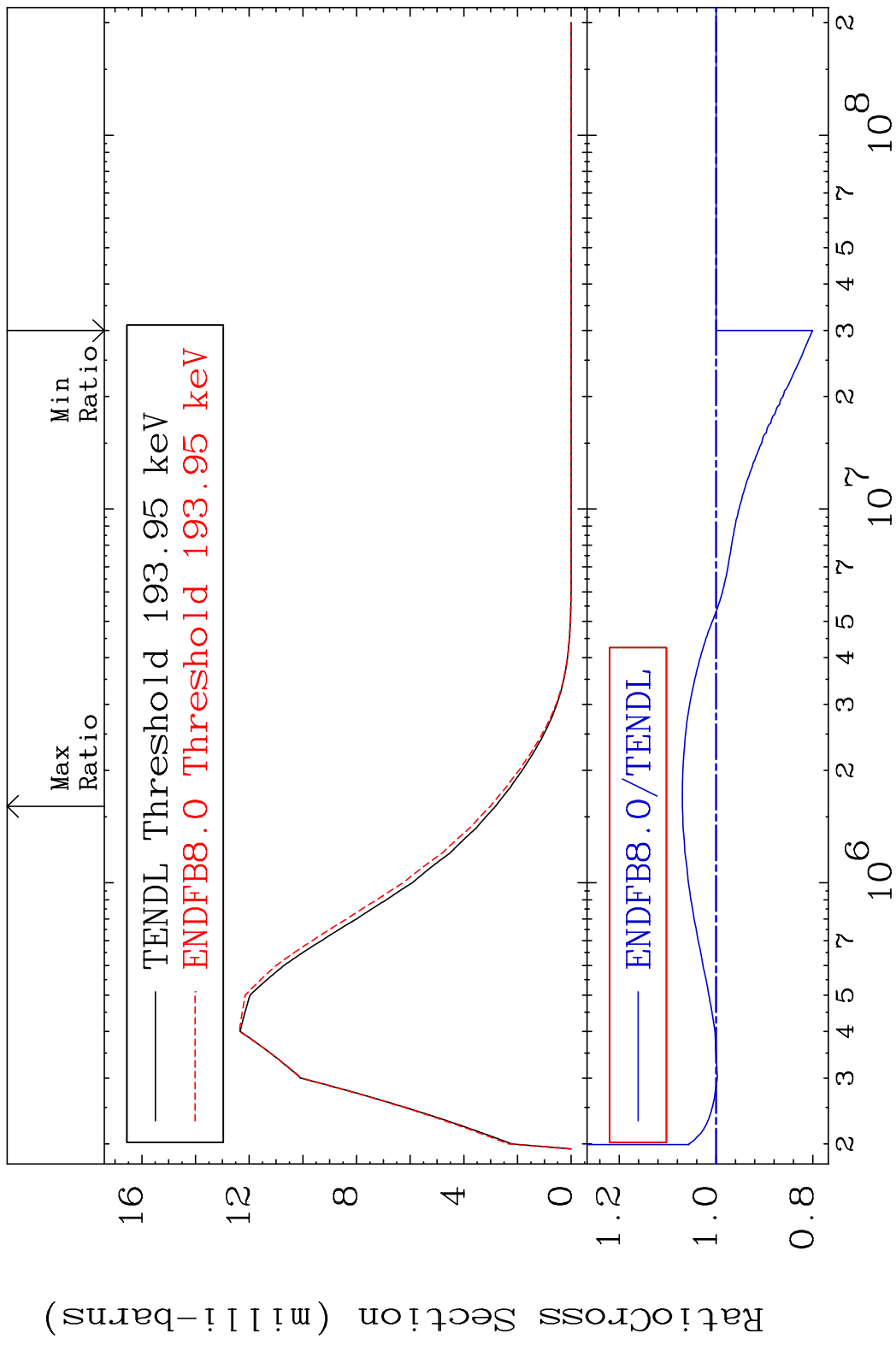
MAT 7728 MT= 66 (n, n') Level 77-Ir-192  
 Cross Section -0.296 To 7.364 %



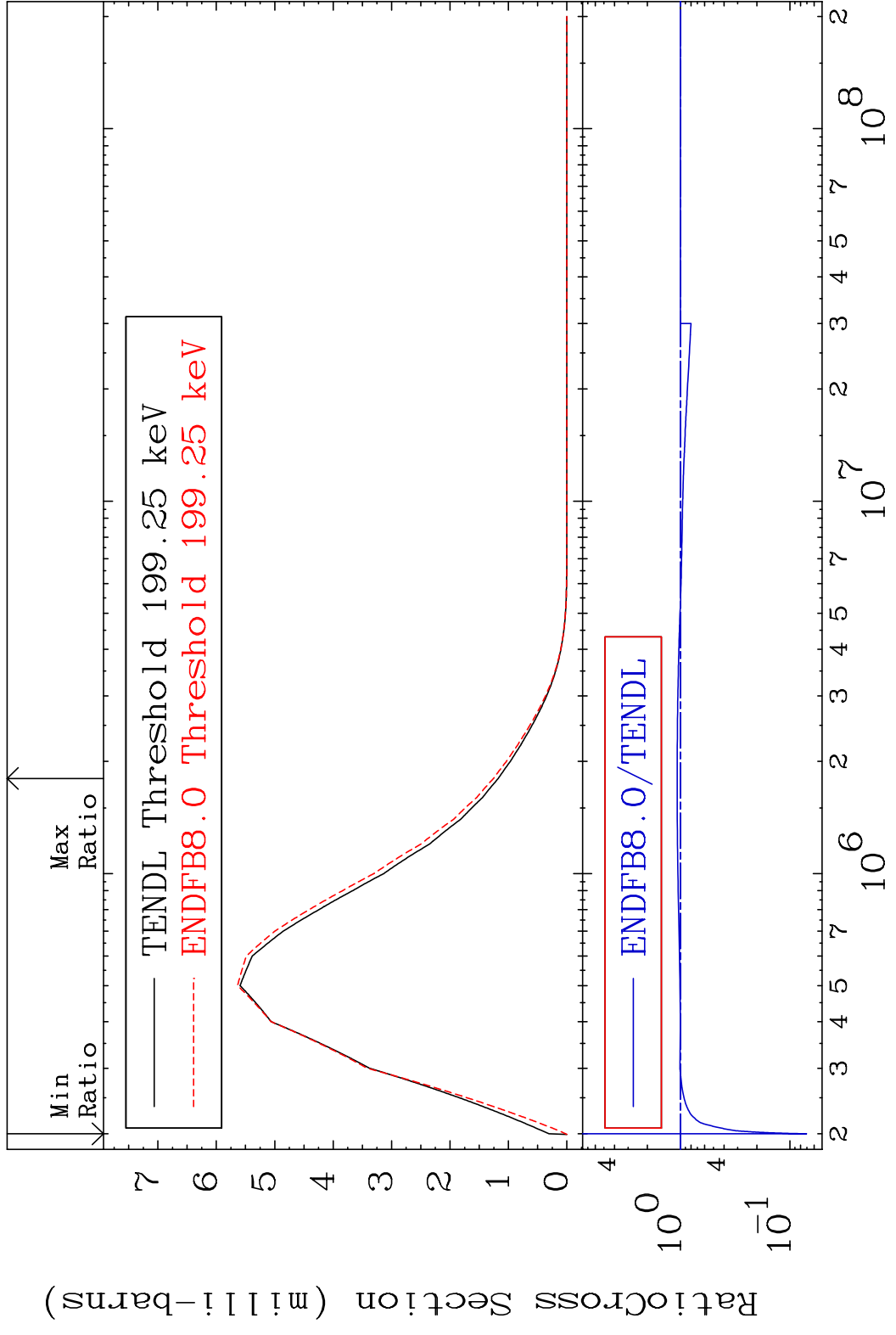
MAT 7728 MT= 67 (n, n') Level 77-Ir-192  
 Cross Section -1.452 To 7.456 %



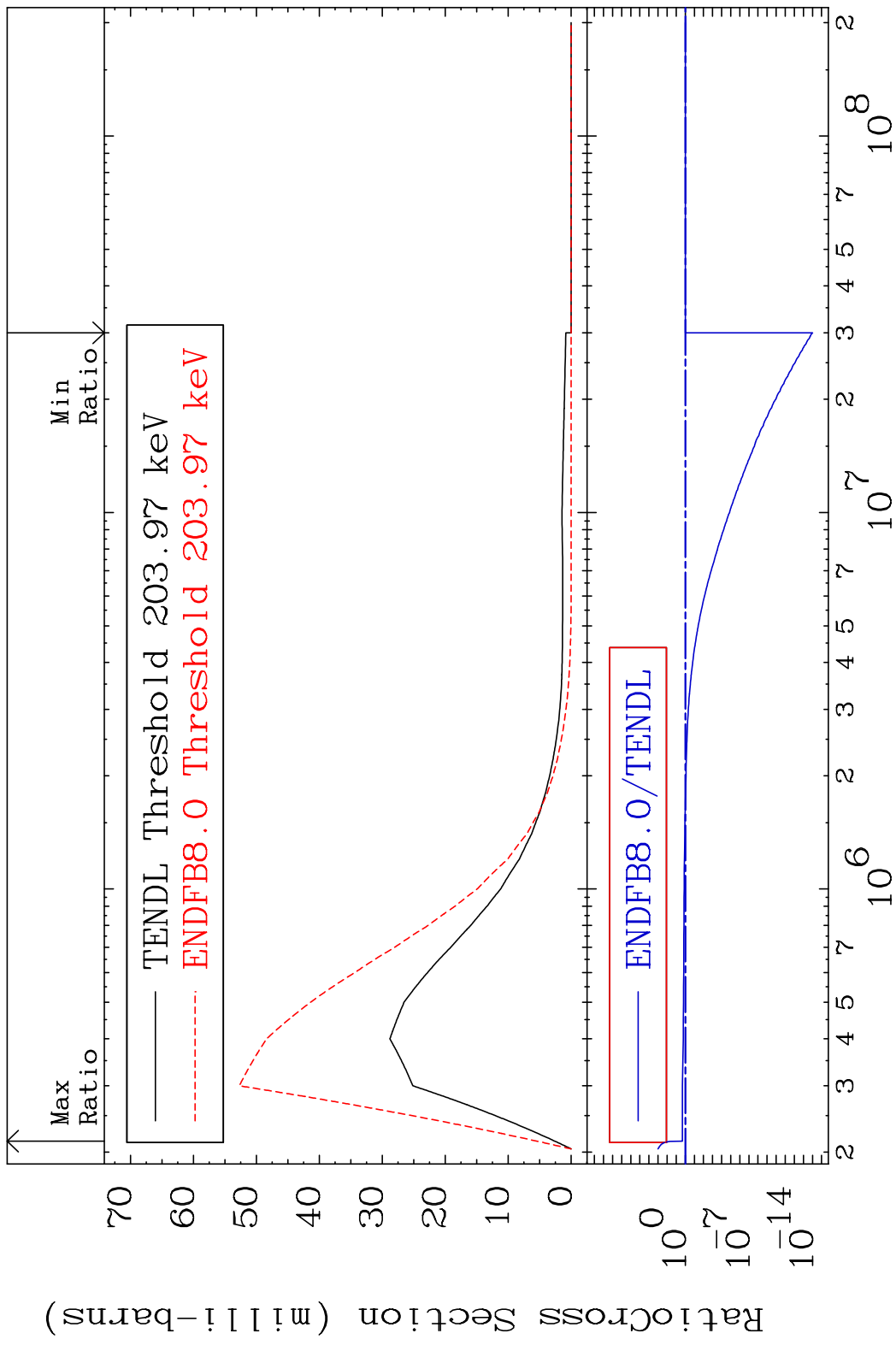
MAT 7728 MT= 68 (n, n') Level 77-Ir-192  
 Cross Section -19.94 To 6.959 %



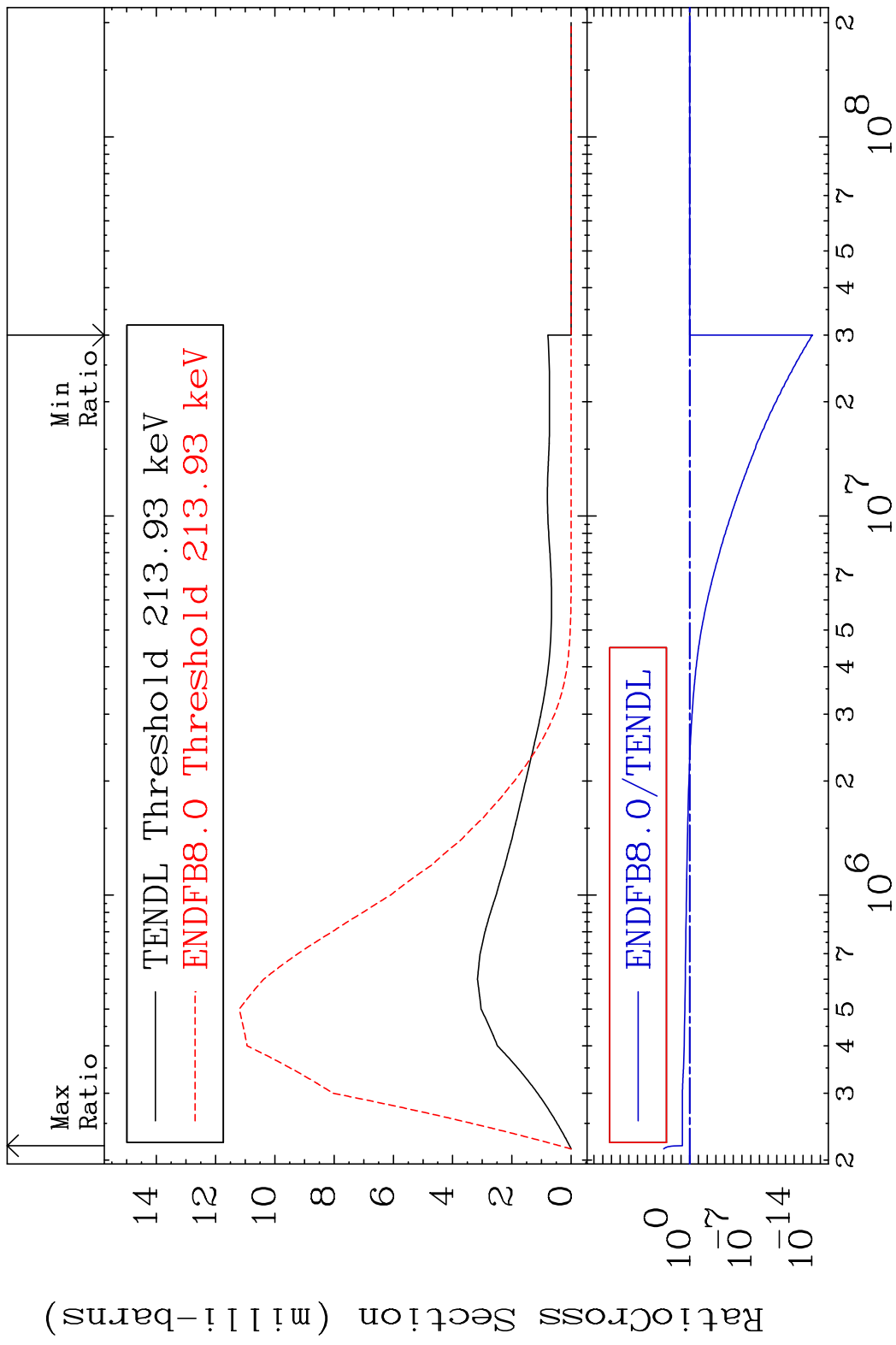
MAT 7728 MT= 69 (n, n') Level 77-Ir-192  
 Cross Section -92.94 To 6.999 %



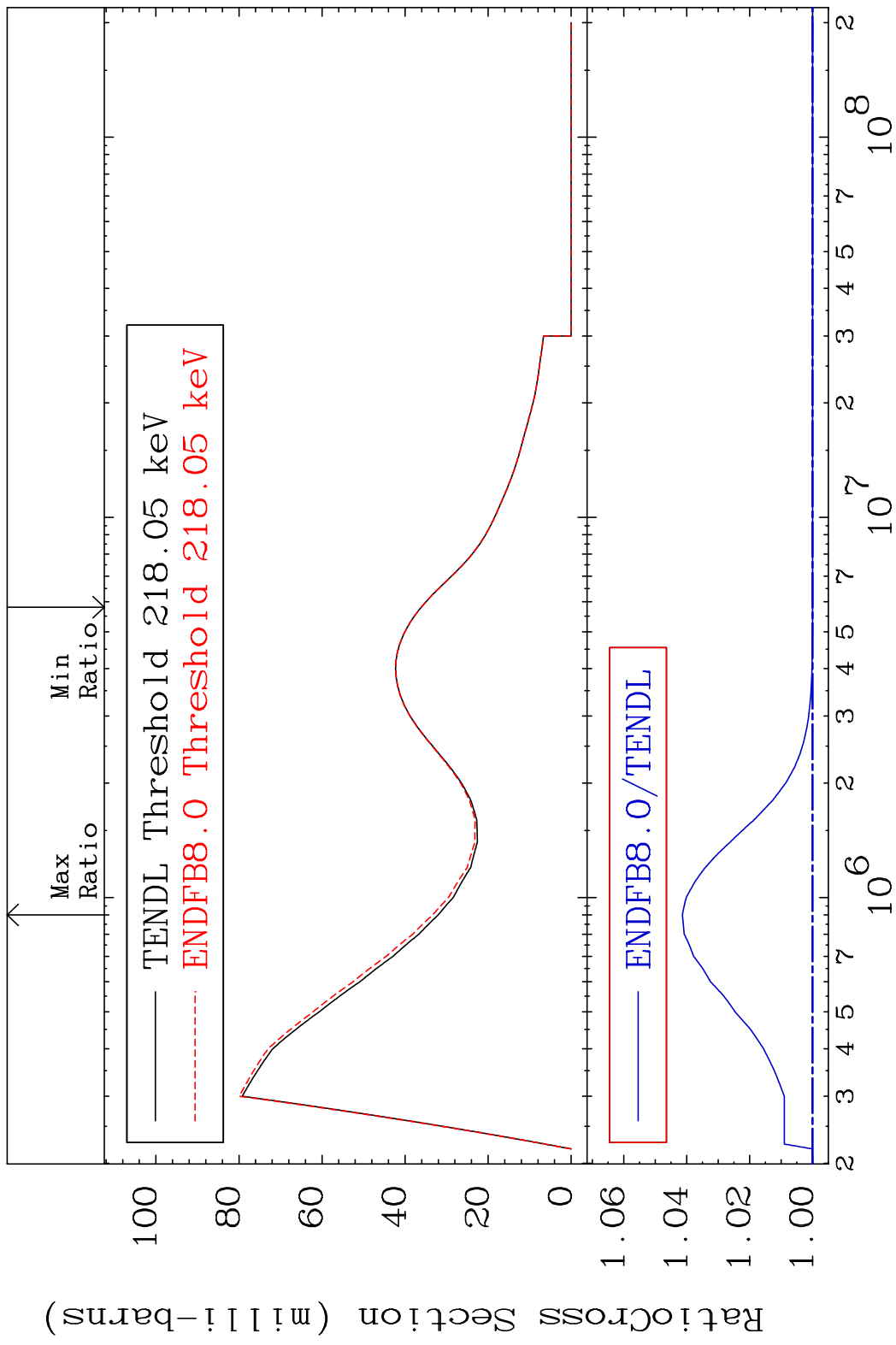
MAT 7728 MT= 70 (n,n') Level 77-Ir-192  
 Cross Section -100.0 To 109.7 %



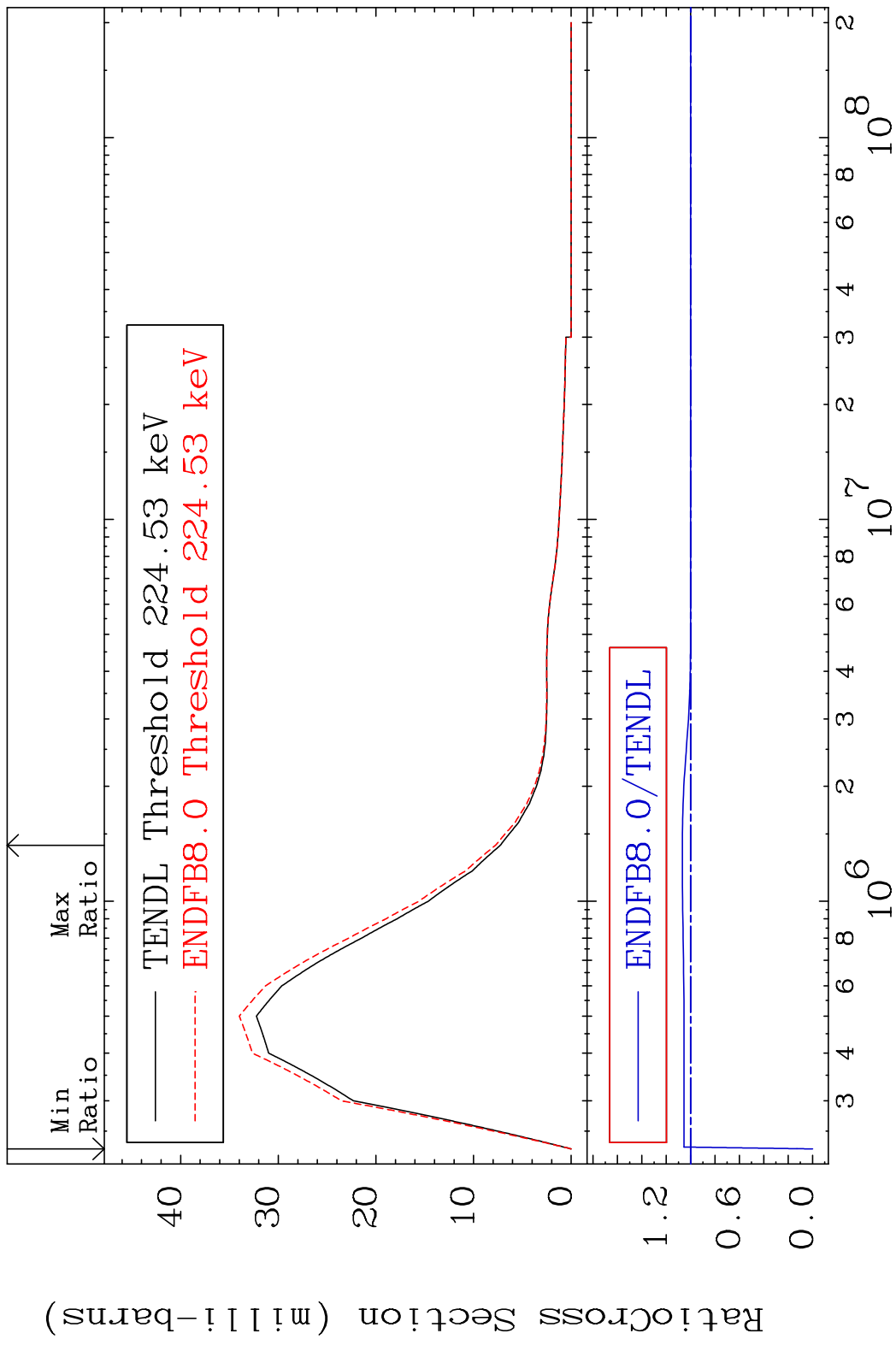
MAT 7728 MT= 71 (n, n') Level 77-Ir-192  
 Cross Section -100.0 To 608.4 %



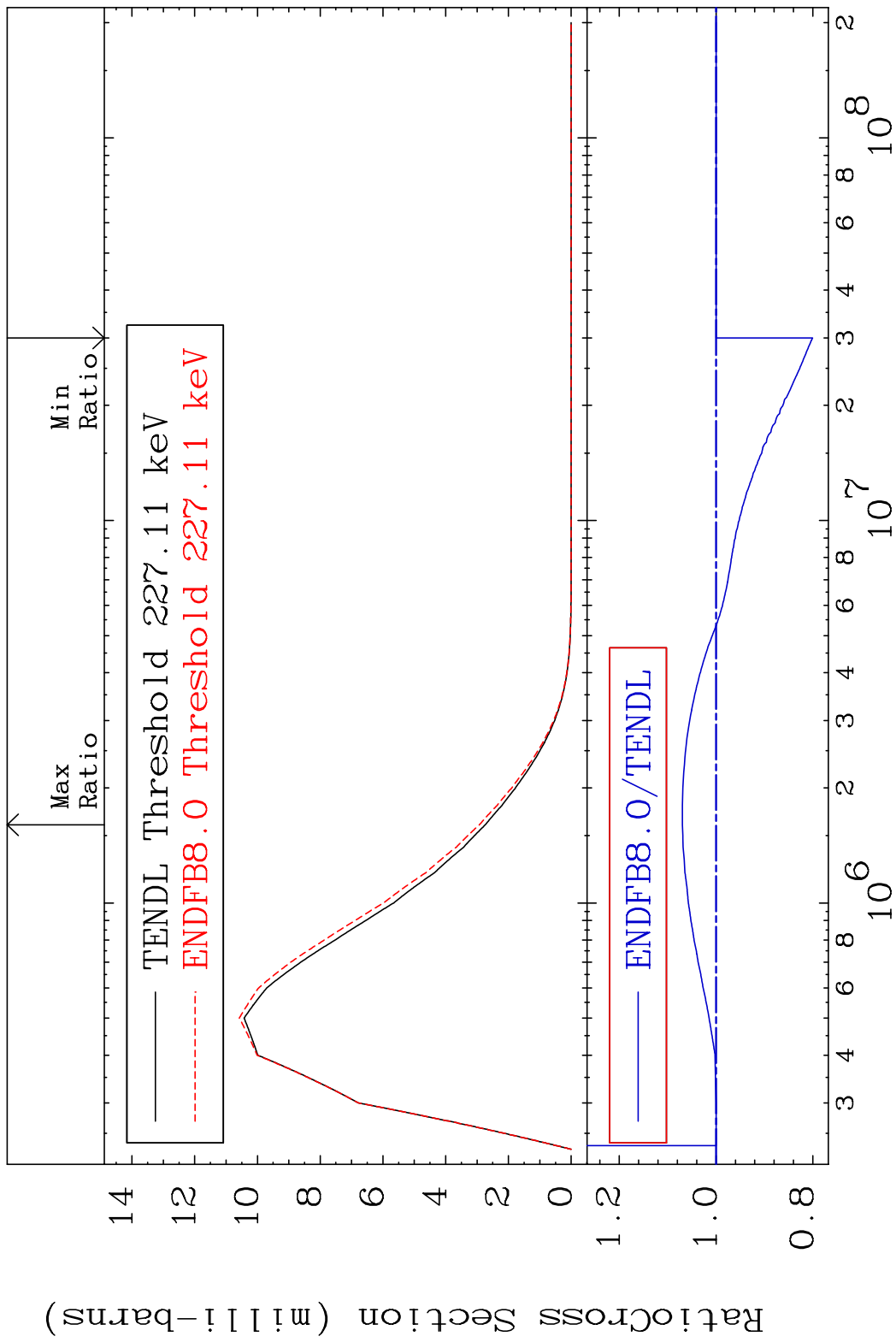
MAT 7728 MT= 72 (n, n') Level 77-Ir-192  
 Cross Section 0.000 To 4.138 %



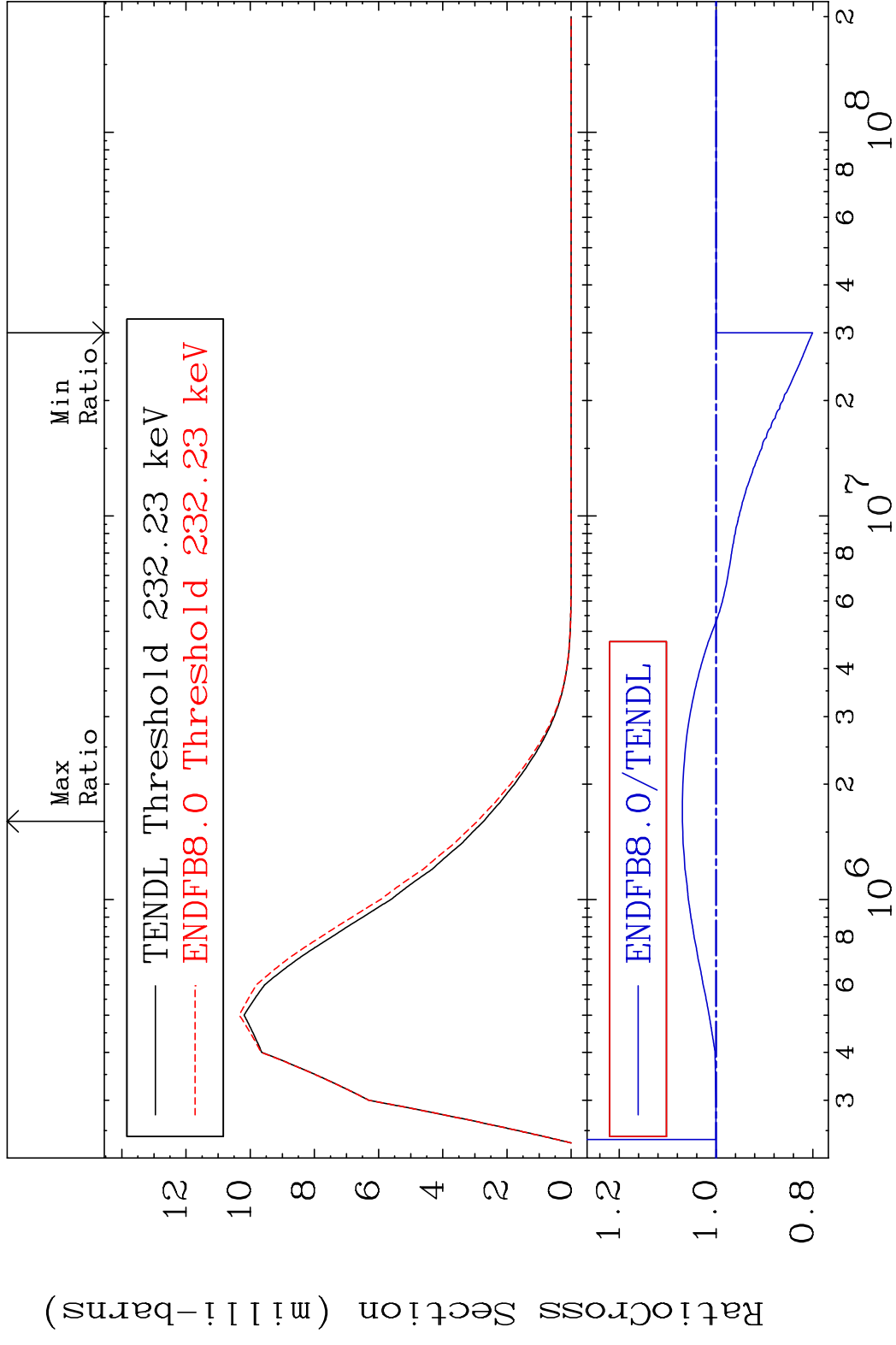
MAT 7728 MT= 73 (n, n') Level 77-Ir-192  
 Cross Section -100.0 To 6.768 %



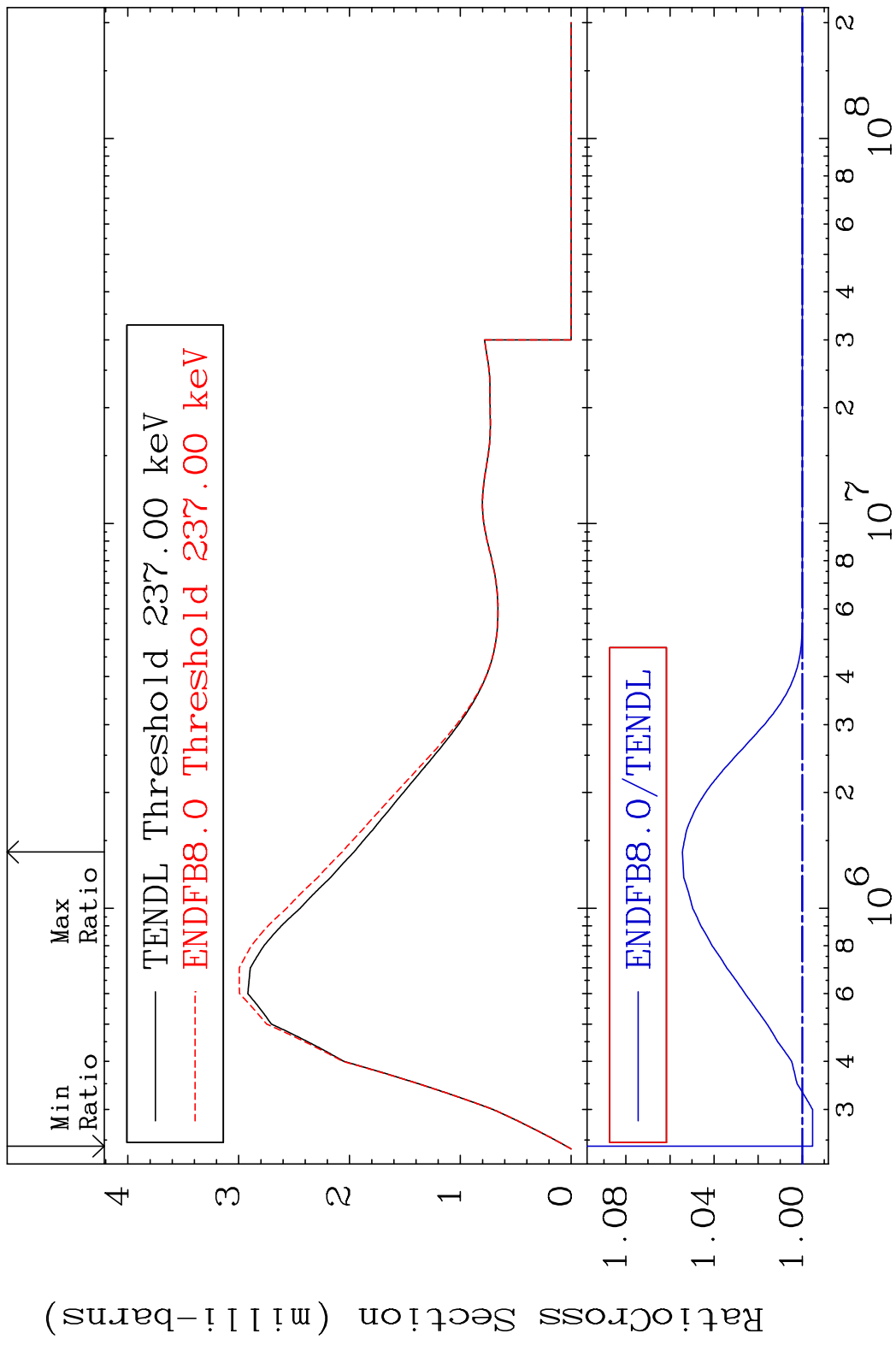
MAT 7728 MT= 74 (n,n') Level 77-Ir-192  
 Cross Section -19.94 To 6.961 %



MAT 7728 MT= 75 (n,n') Level 77-Ir-192  
 Cross Section -19.94 To 6.961 %



MAT 7728 MT= 76 (n,n') Level 77-Ir-192  
 Cross Section -0.466 To 5.441 %

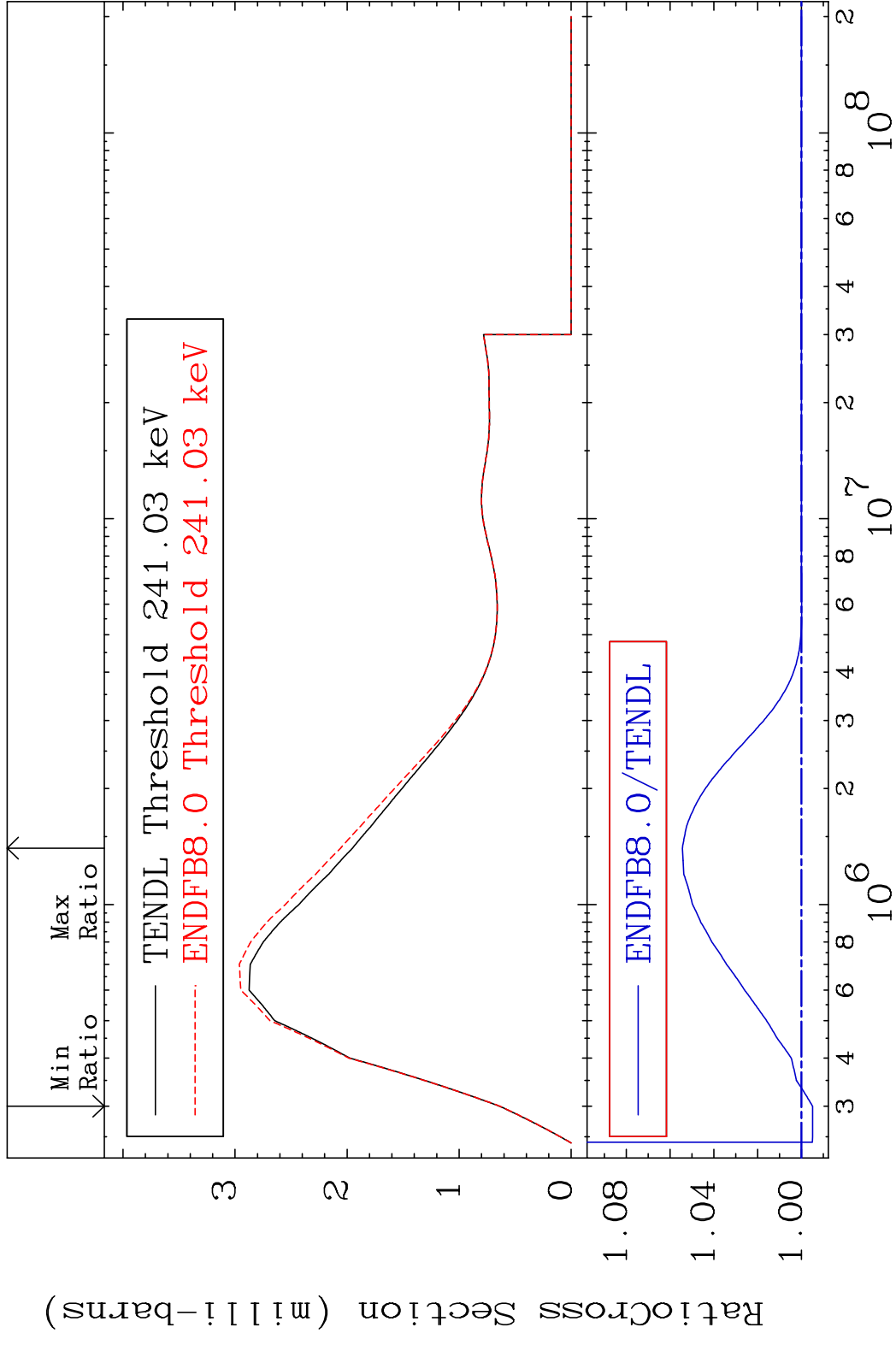


MAT 7728

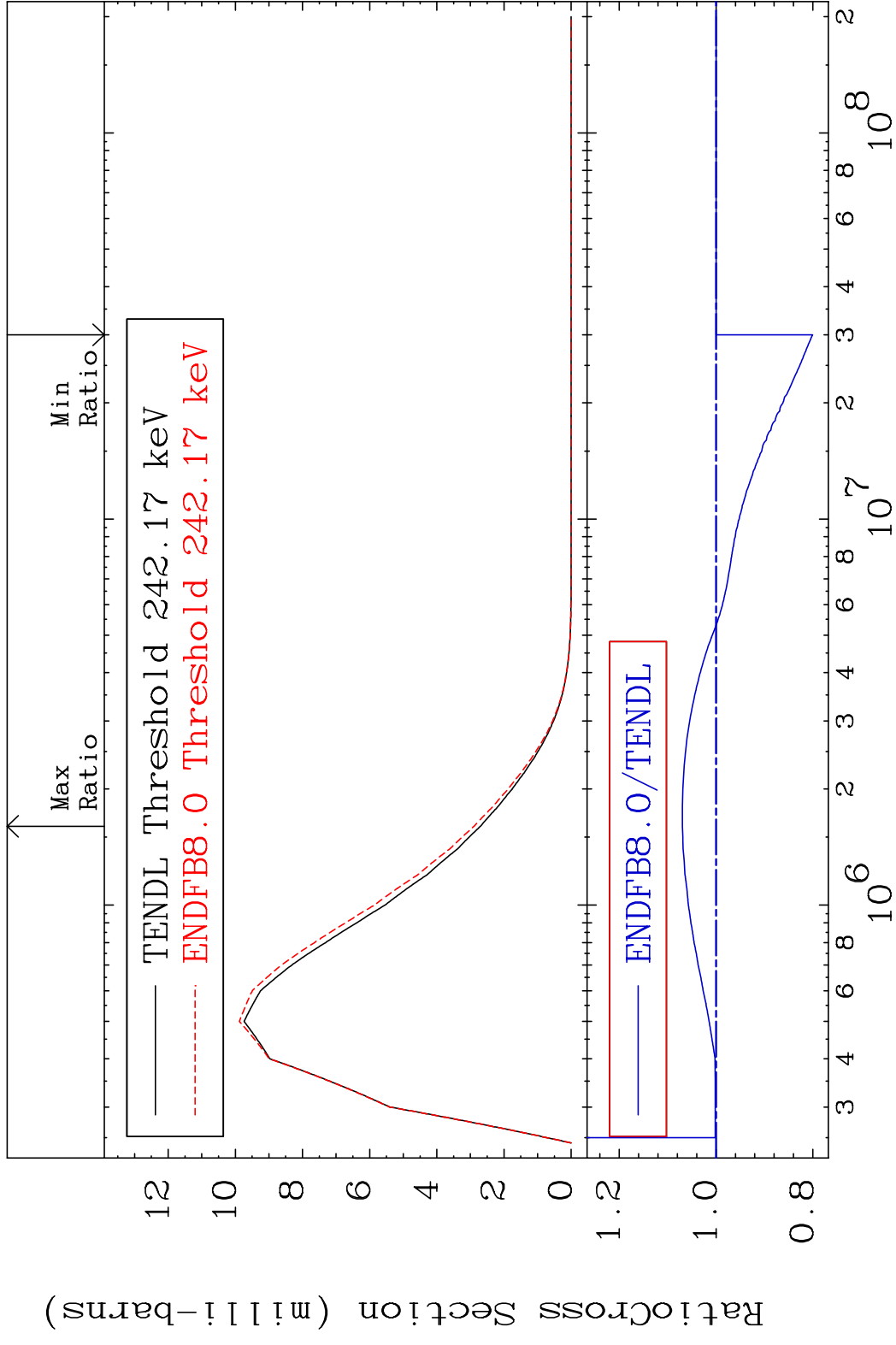
MT= 77 (n,n') Level

77-Ir-192

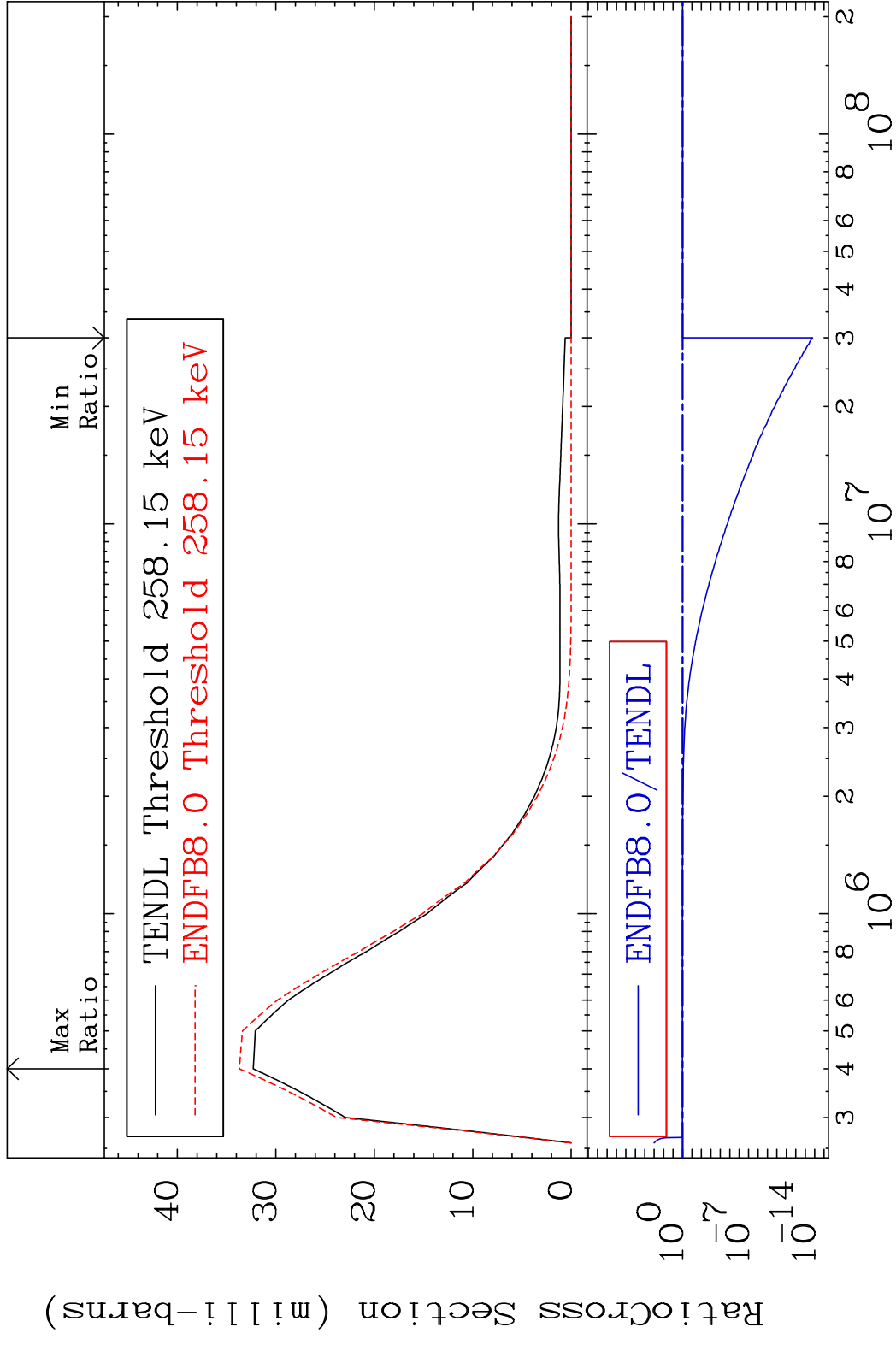
Cross Section -0.505 To 5.438 %



MAT 7728 MT= 78 (n,n') Level 77-Ir-192  
 Cross Section -19.94 To 6.962 %



MAT 7728 MT= 79 (n,n') Level 77-Ir-192  
 Cross Section -100.0 To 4.371 %

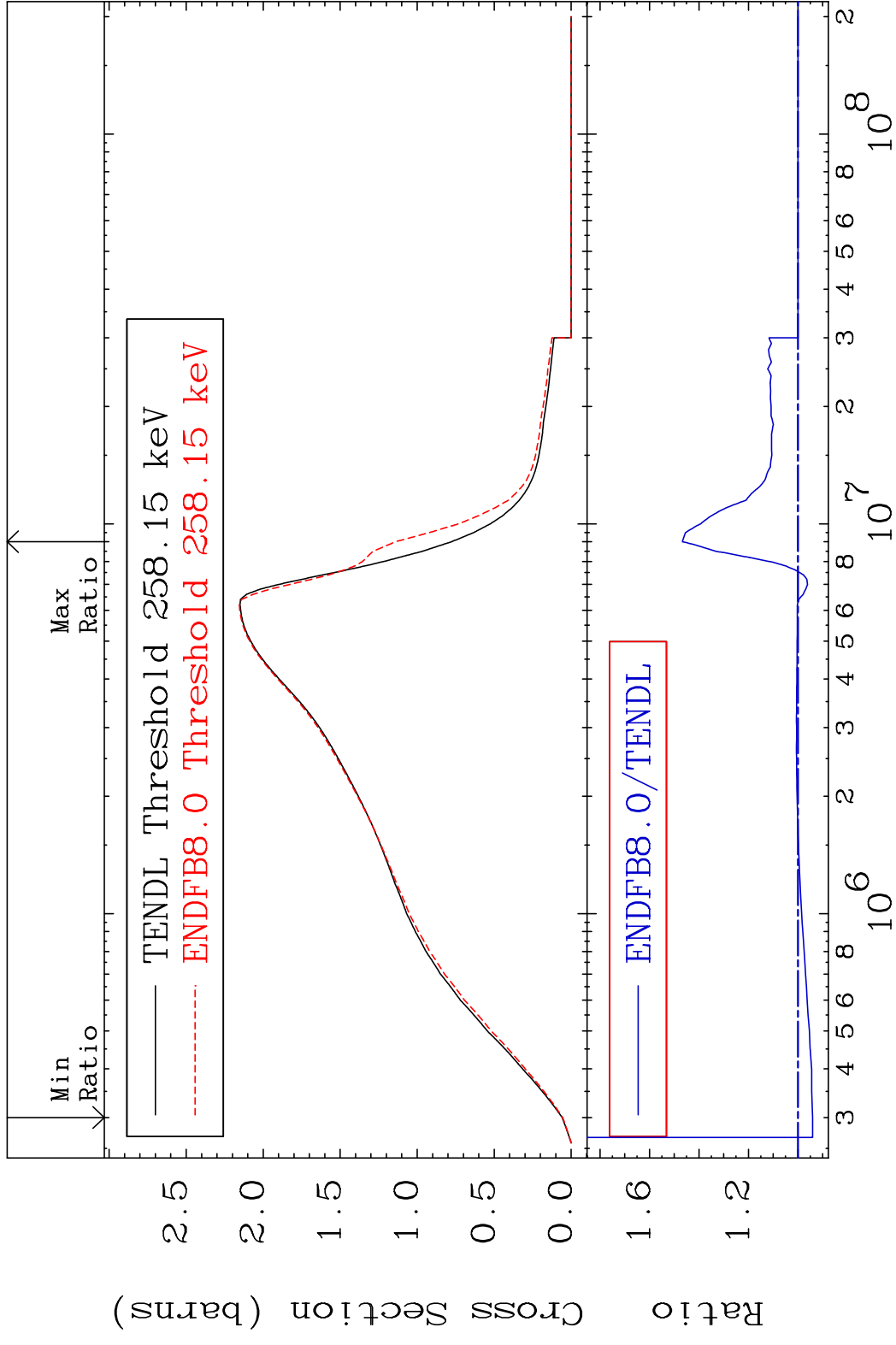


MAT 7728

(n, n') Continuum

77-Ir-192

Cross Section -5.902 To 46.71 %

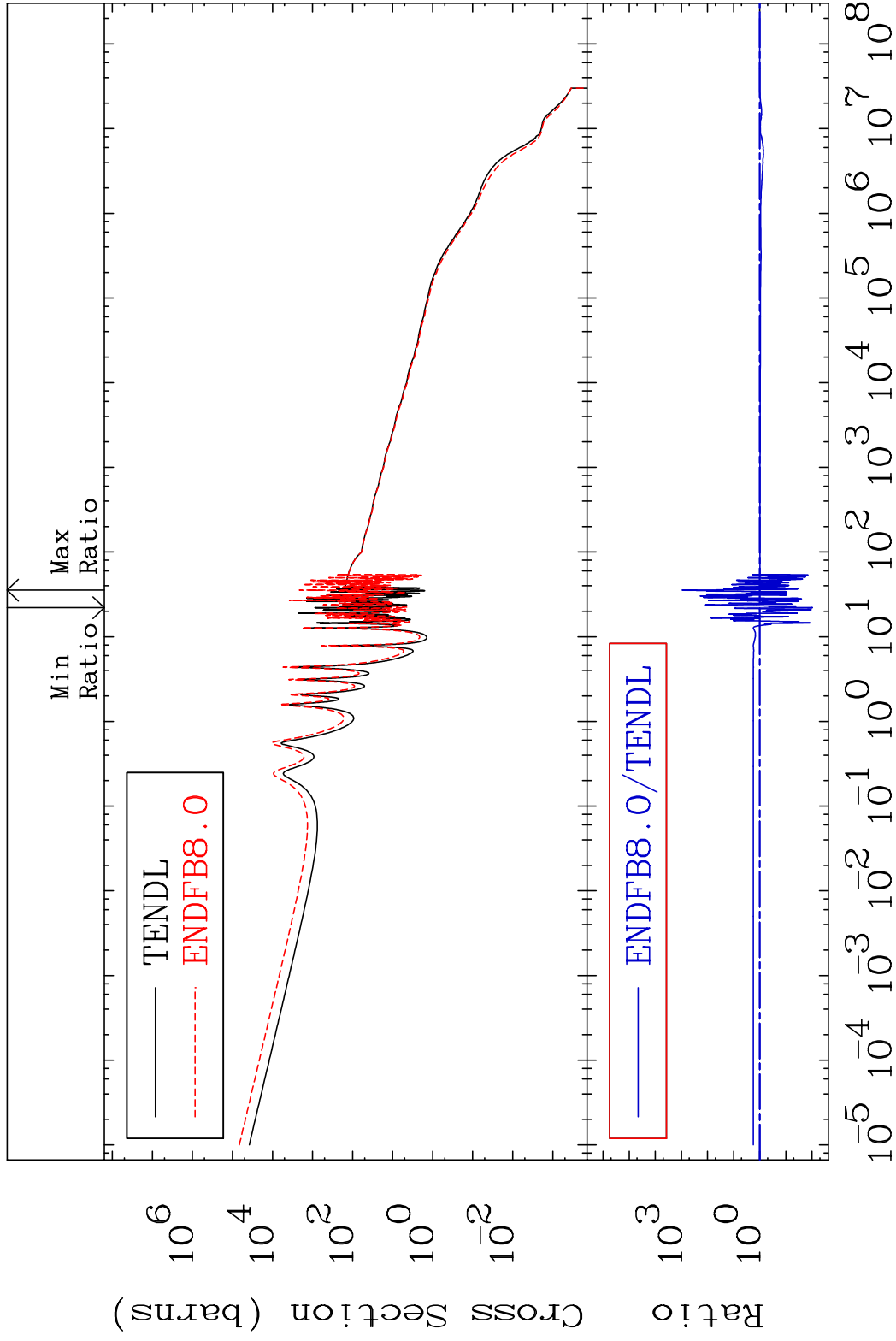


MAT 7728

(n,  $\gamma$ )

77-Ir-192

Cross Section -99.05 To 9999. %



49

Incident Energy (eV)

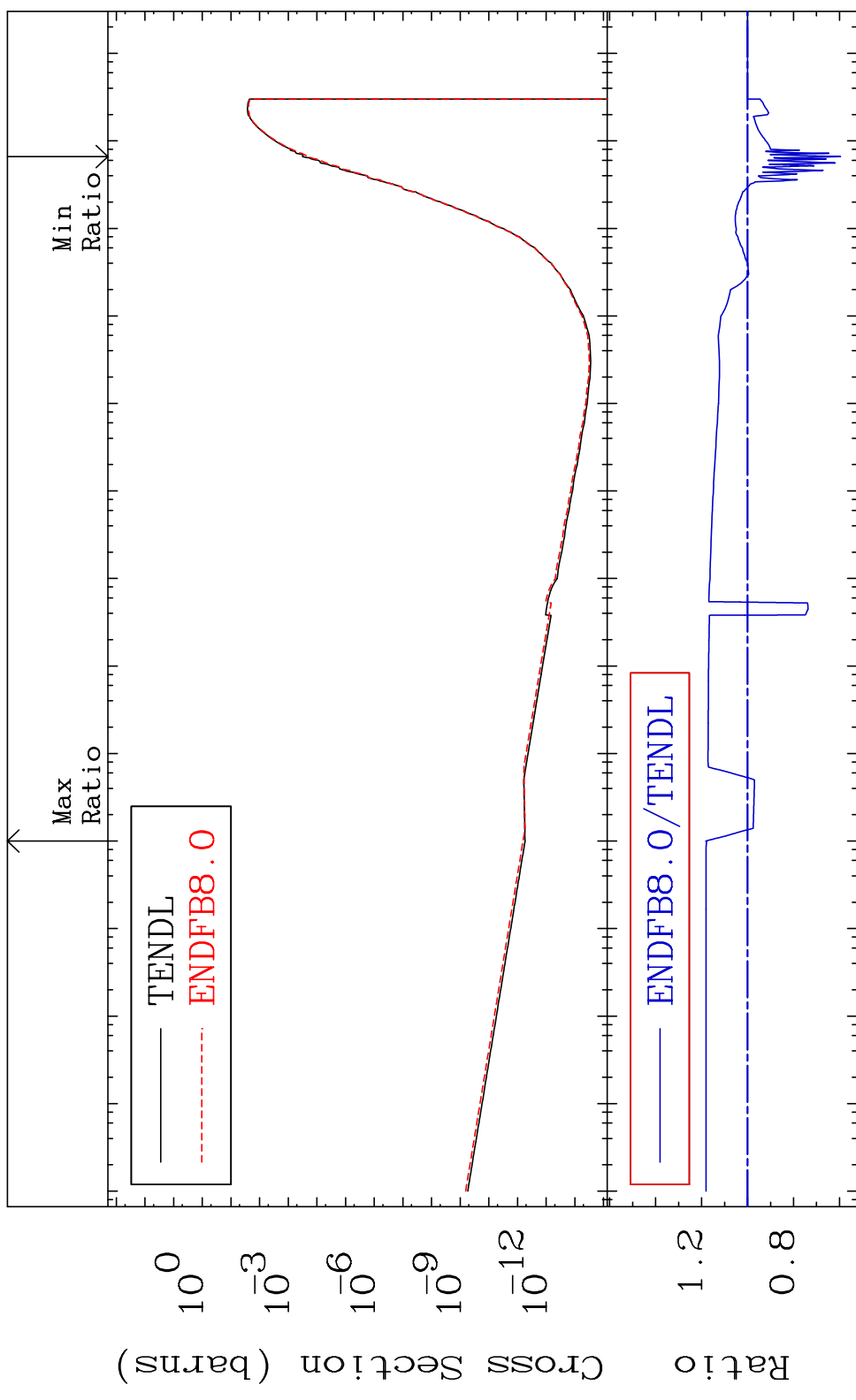
77-Ir-192

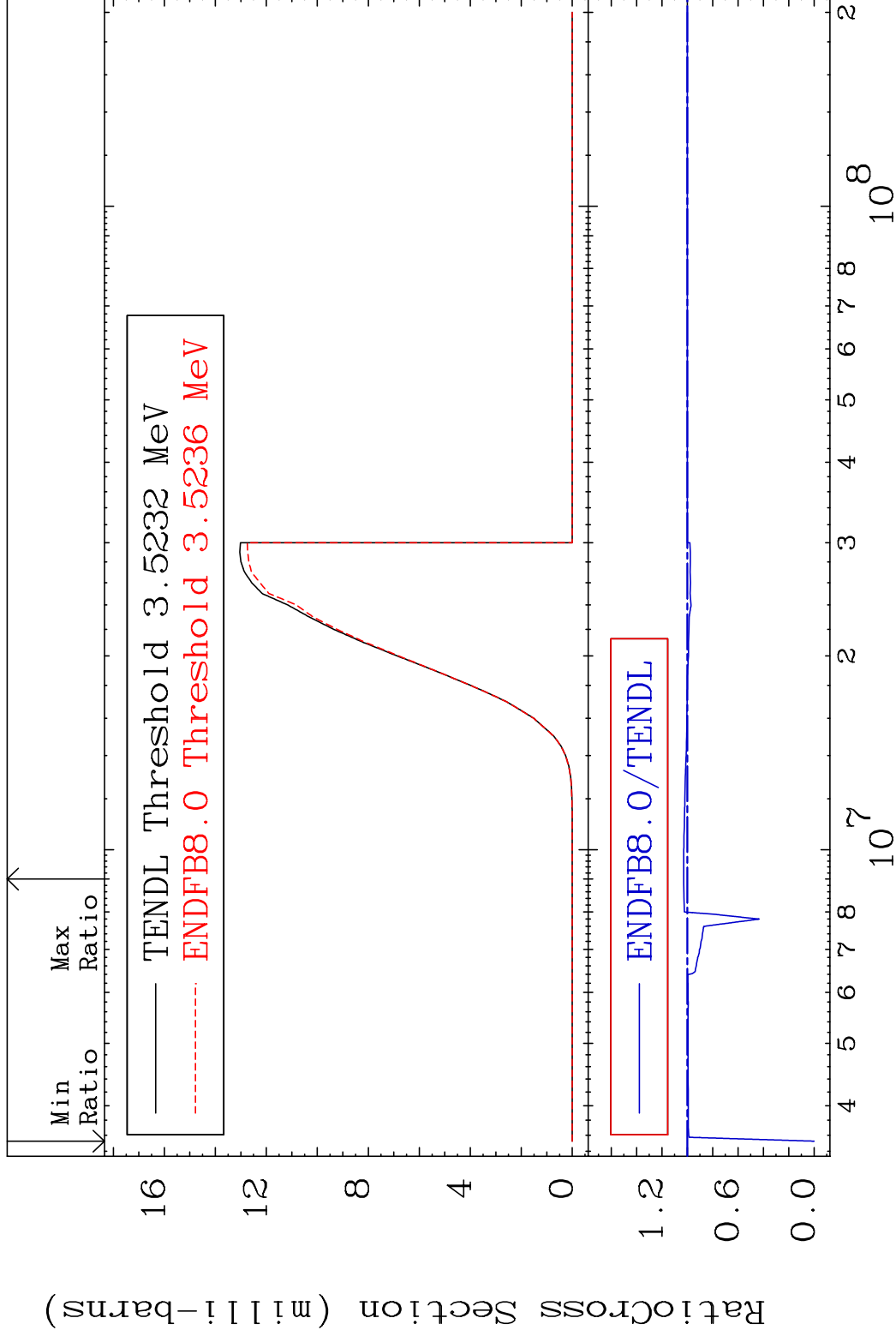
MAT 7728

(n, p)

77-Ir-192

Cross Section -40.40 To 18.19 %



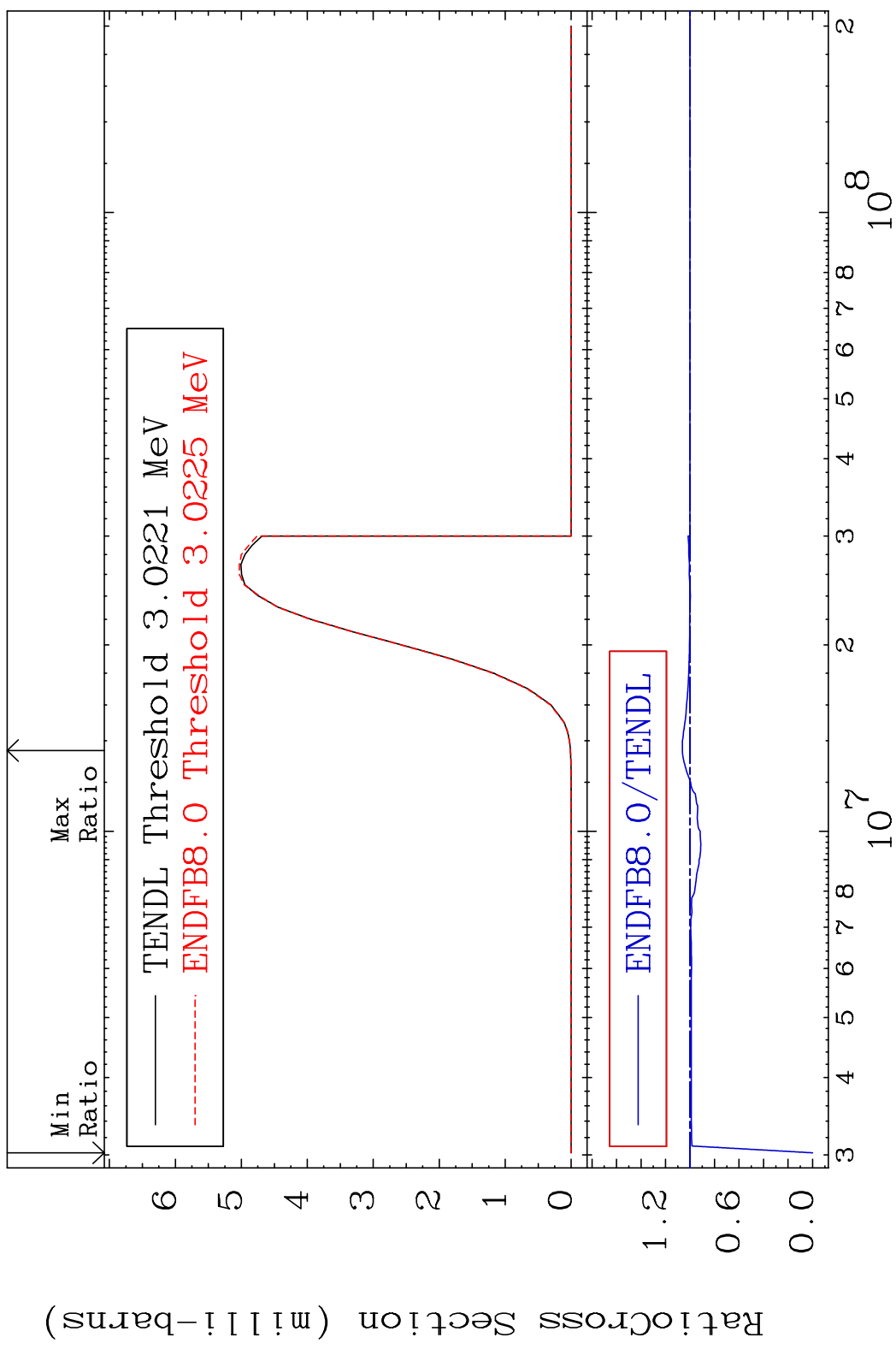


MAT 7728

(n, t)

77-Ir-192

Cross Section -100.0 To 6.257 %

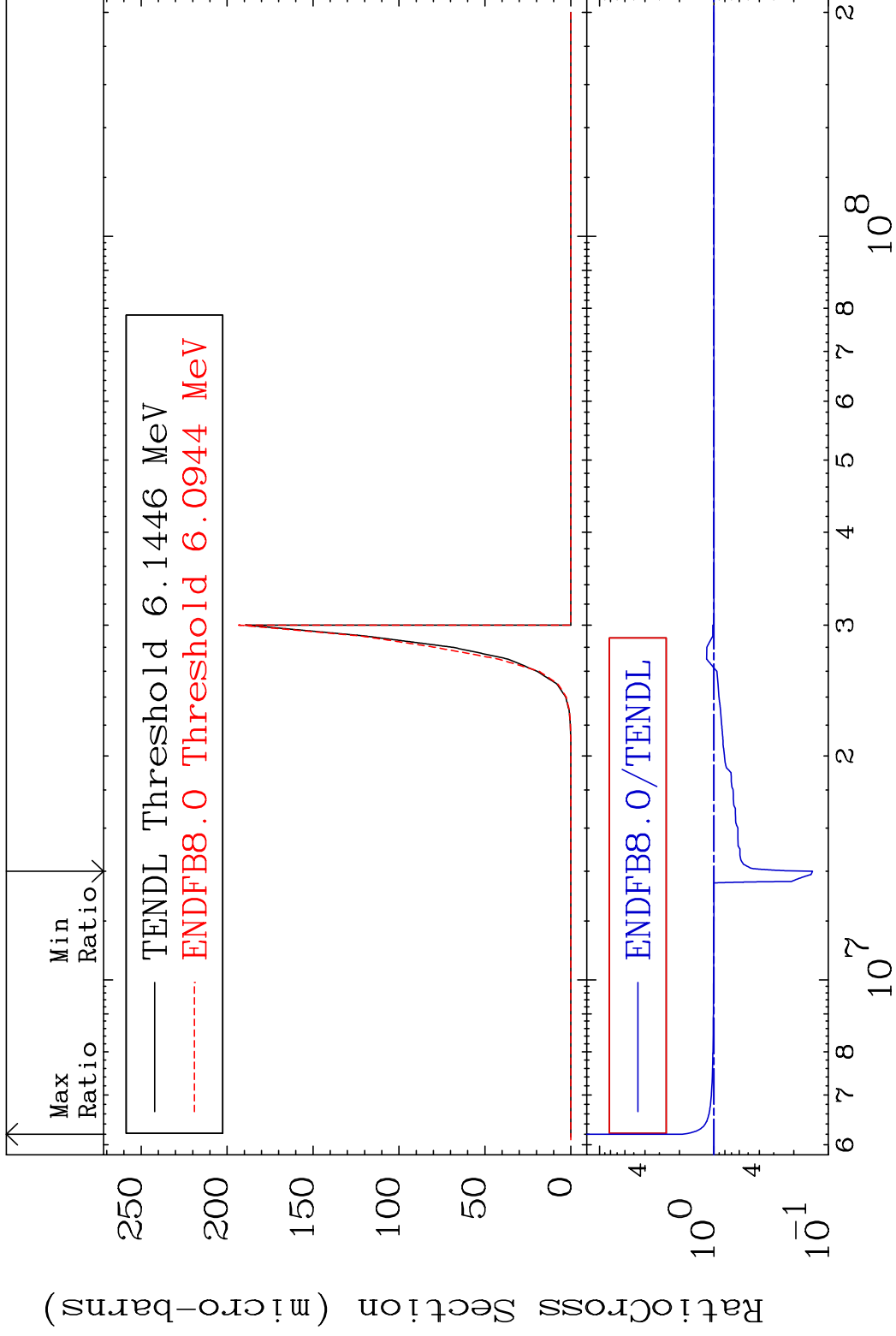


MAT 7728

(n, He-3)

77-Ir-192

Cross Section -86.27 To 89.27 %



53

Incident Energy (eV)

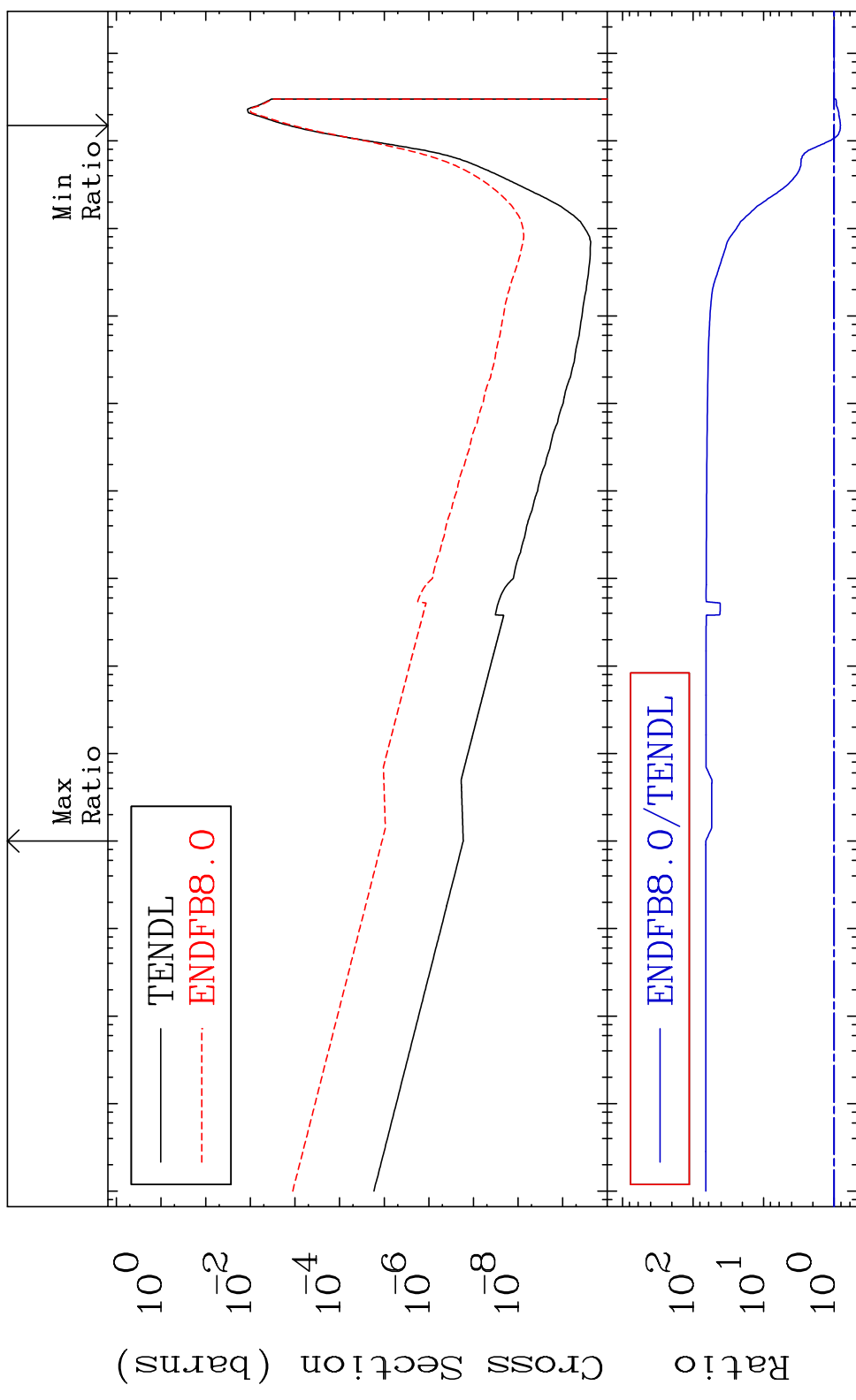
77-Ir-192

MAT 7728

(n,  $\alpha$ )

77-Ir-192

Cross Section -18.45 To 6502. %

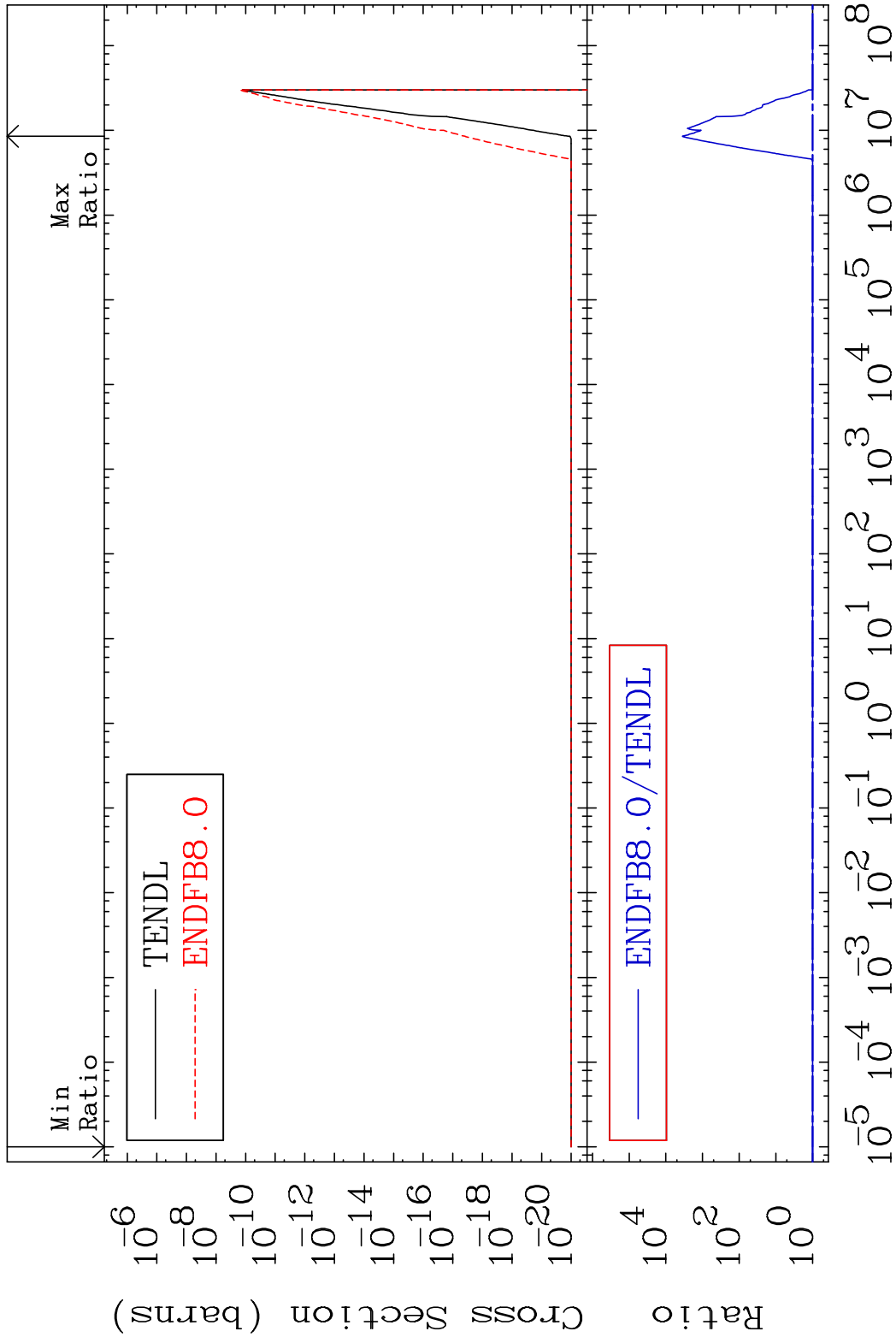


MAT 7728

(n, 2α)

77-Ir-192

Cross Section 0.000 To 9999. %

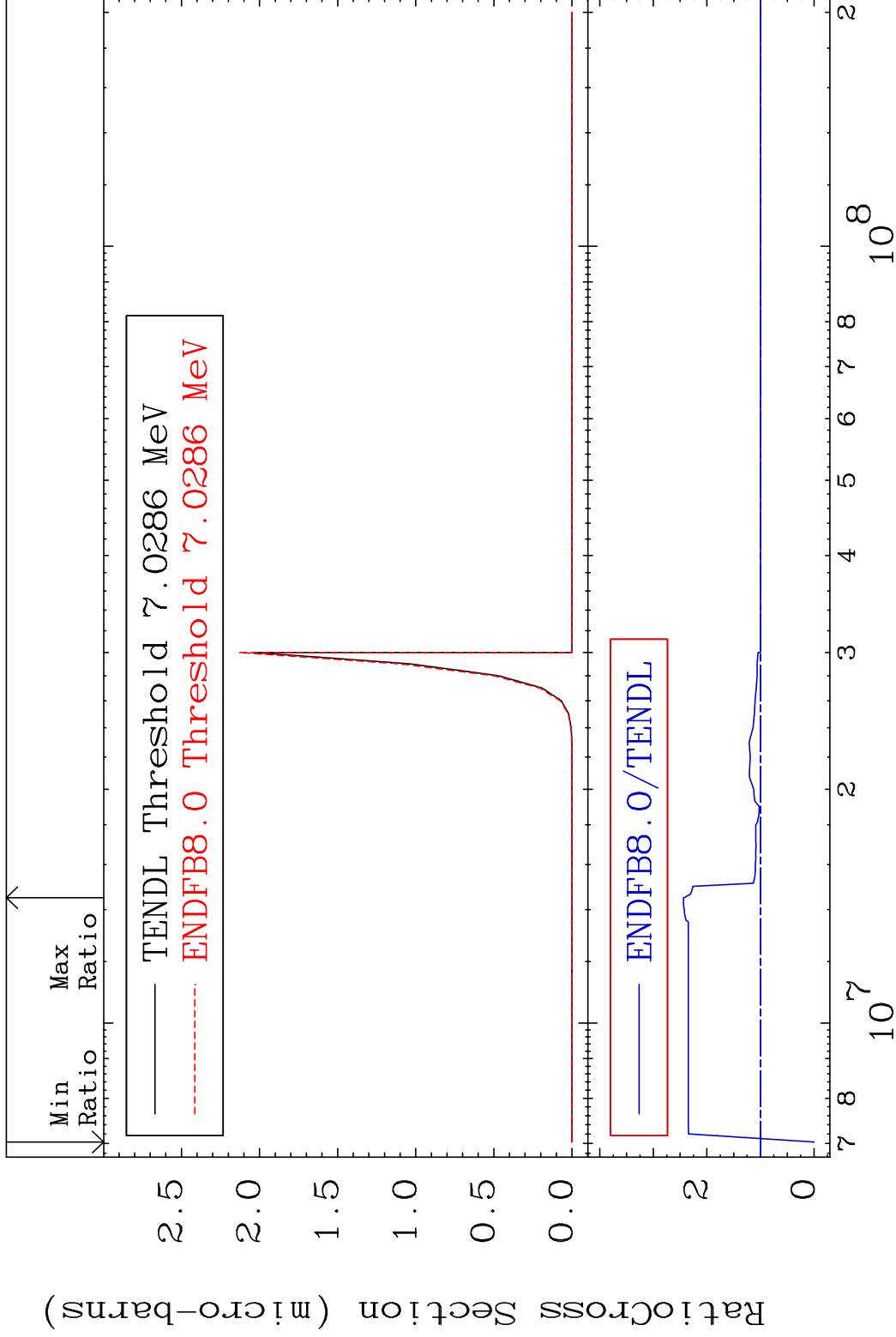


MAT 7728

(n,2p)

77-Ir-192

Cross Section -100.0 To 143.8 %



56

Incident Energy (eV)

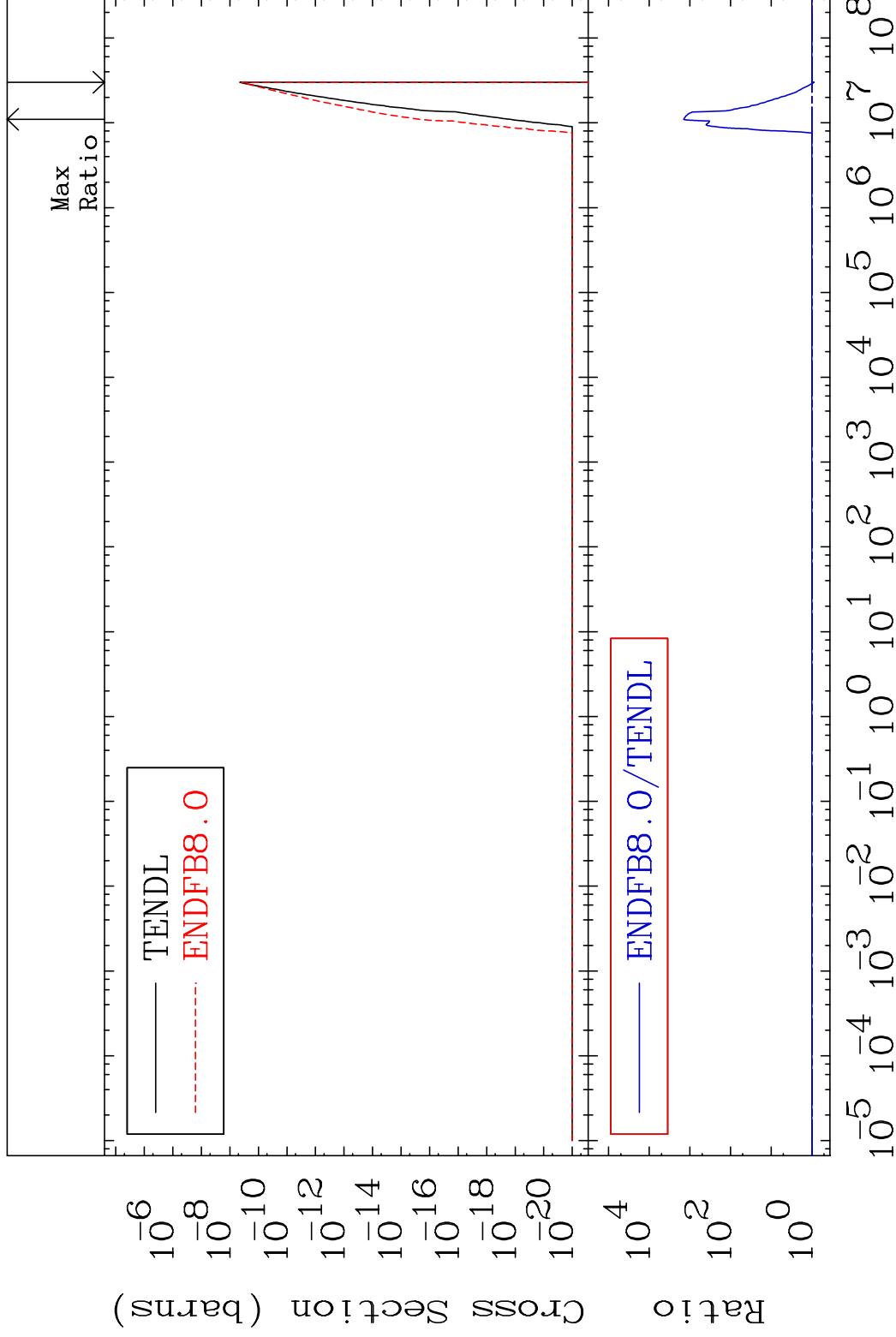
77-Ir-192

MAT 7728

(n,p)  $\alpha$

77-Ir-192

Cross Section -12.05 To 9999. %



57

Incident Energy (eV)

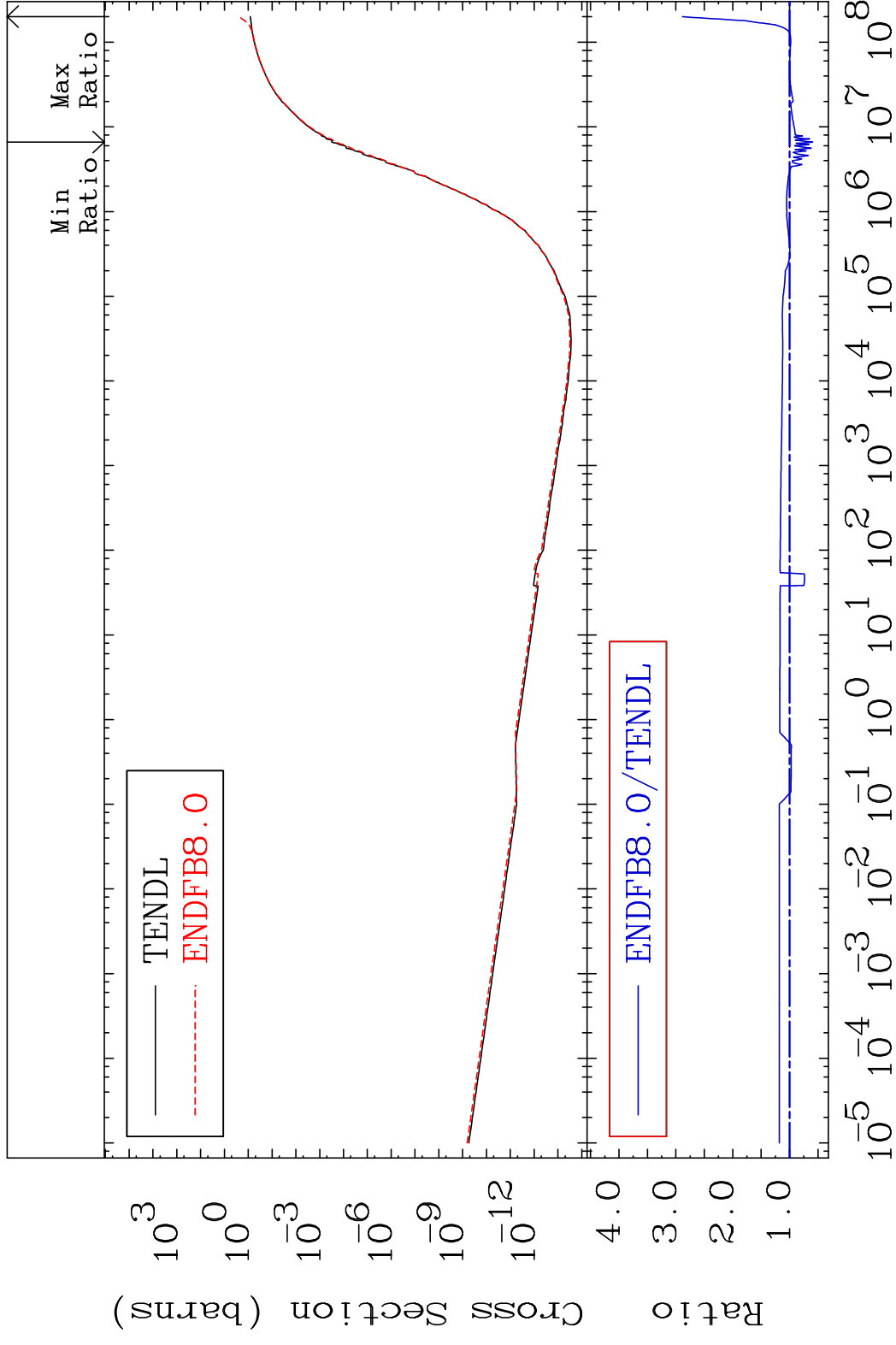
77-Ir-192

MAT 7728

Hydrogen Production

77-Ir-192

Cross Section -40.40 To 188.6 %

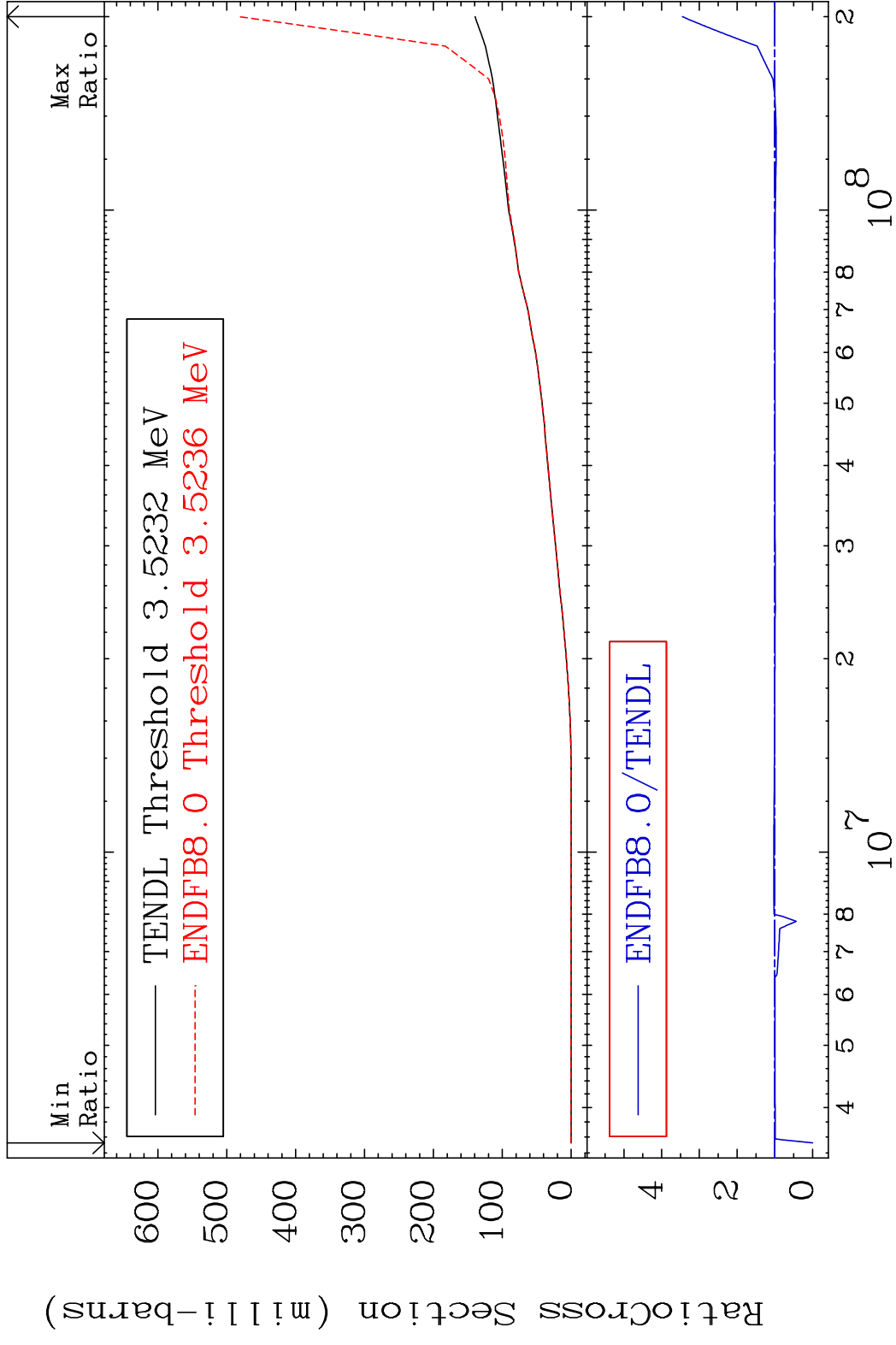


MAT 7728

Deuterium Production

77-Ir-192

Cross Section -100.0 To 245.1 %

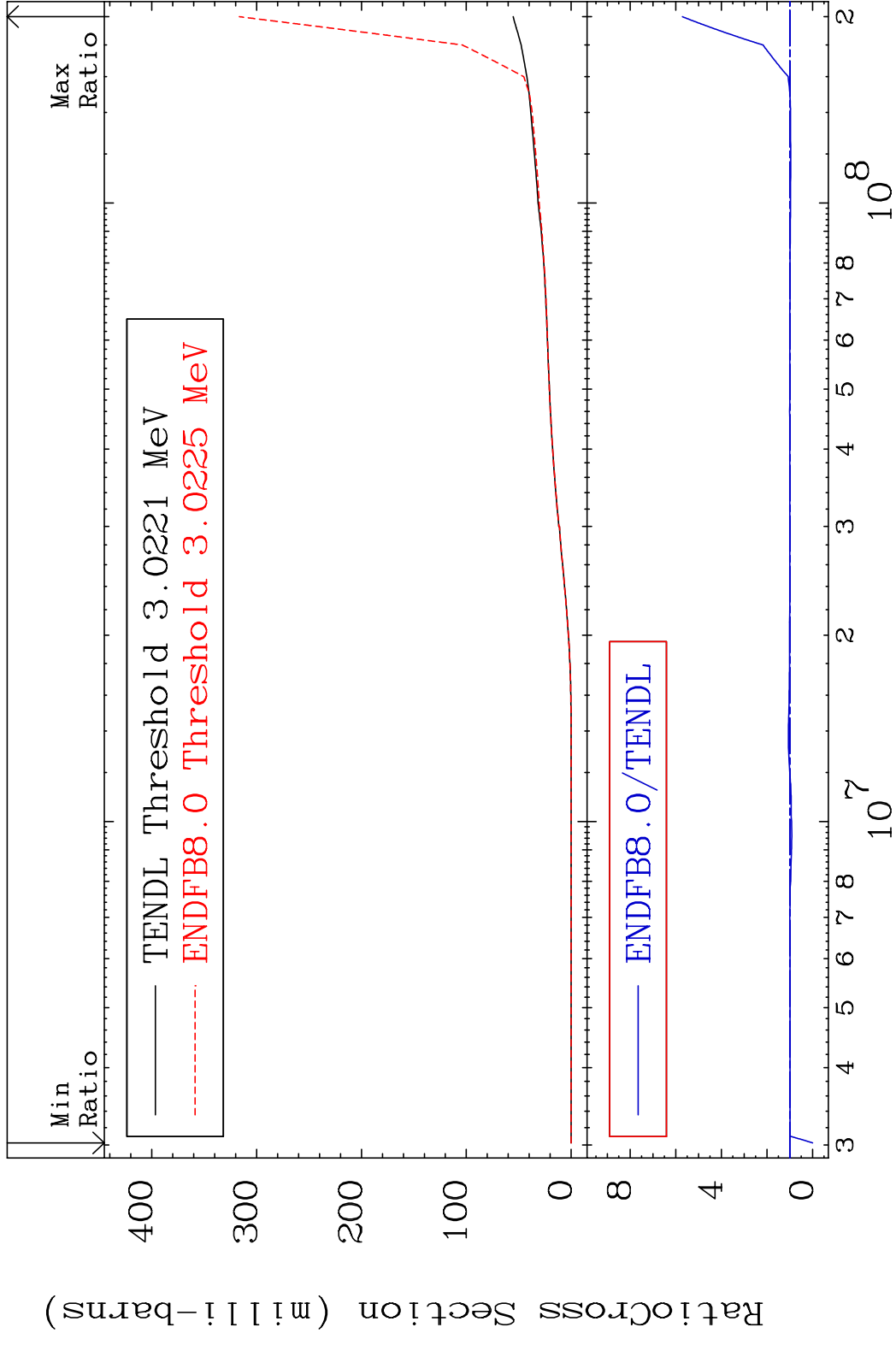


MAT 7728

Tritium Production

77-Ir-192

Cross Section -100.0 To 471.3 %



60

Incident Energy (eV)

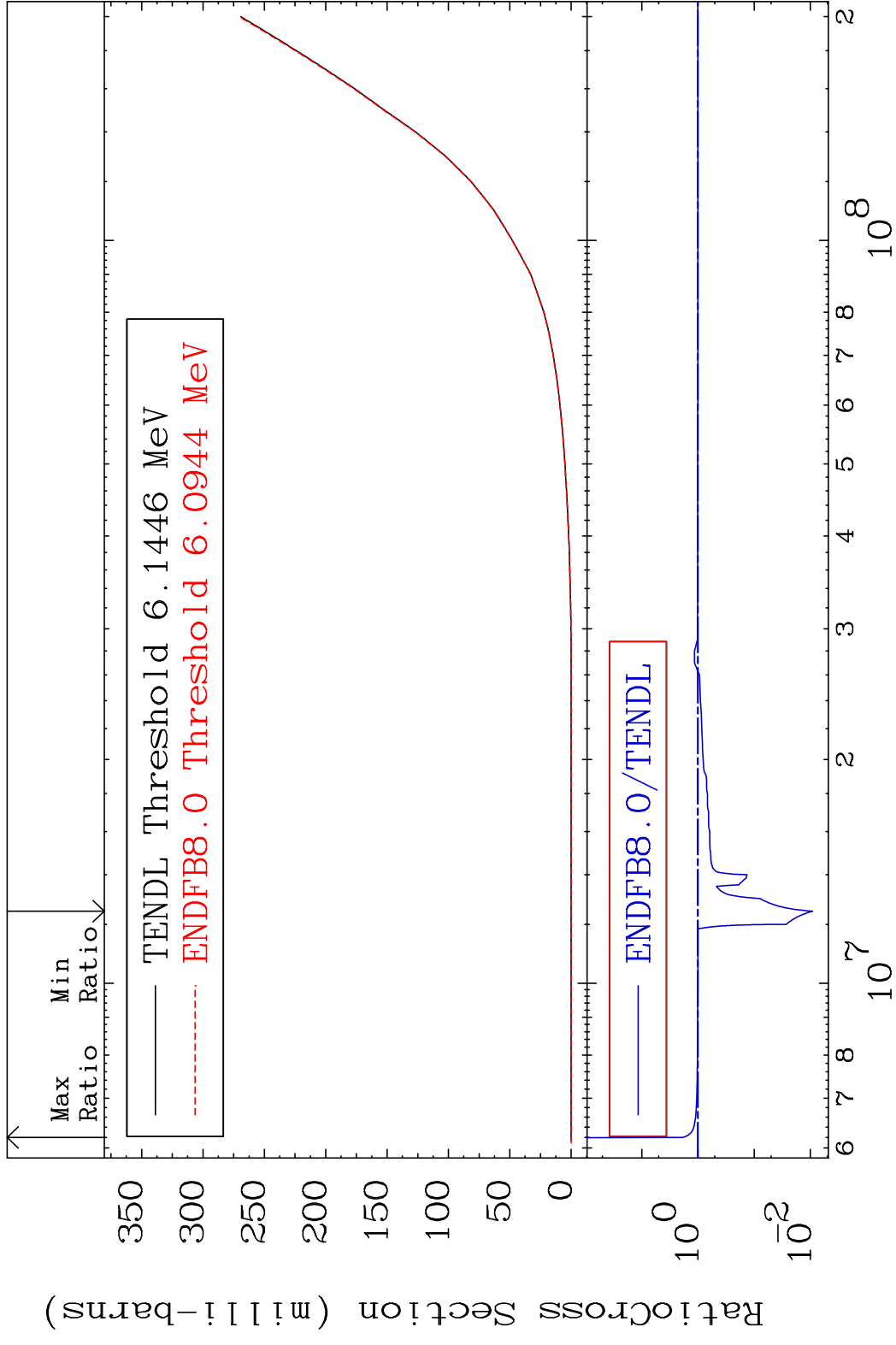
77-Ir-192

MAT 7728

He-3 Production

77-Ir-192

Cross Section -99.08 To 89.27 %



61

Incident Energy (eV)

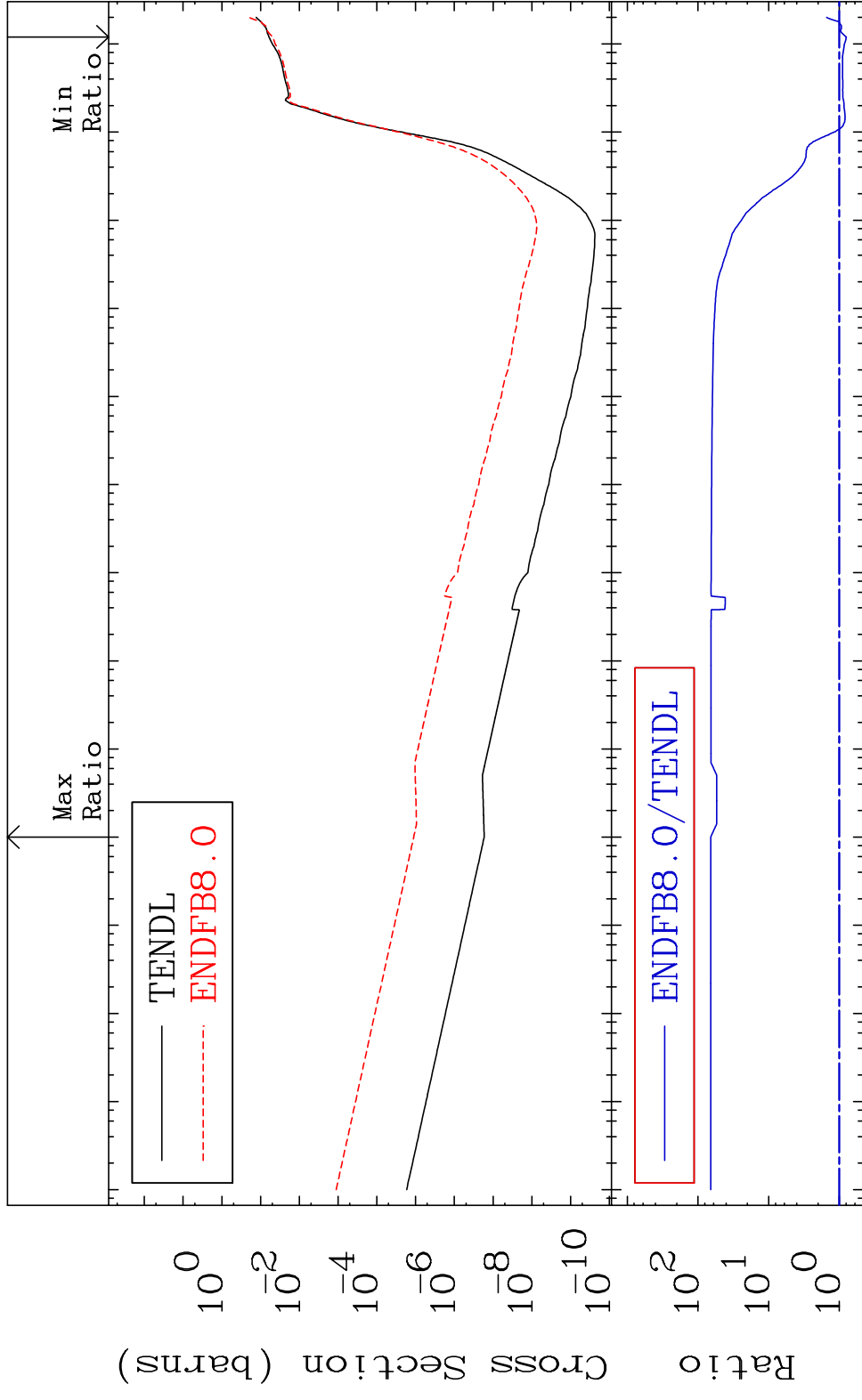
77-Ir-192

MAT 7728

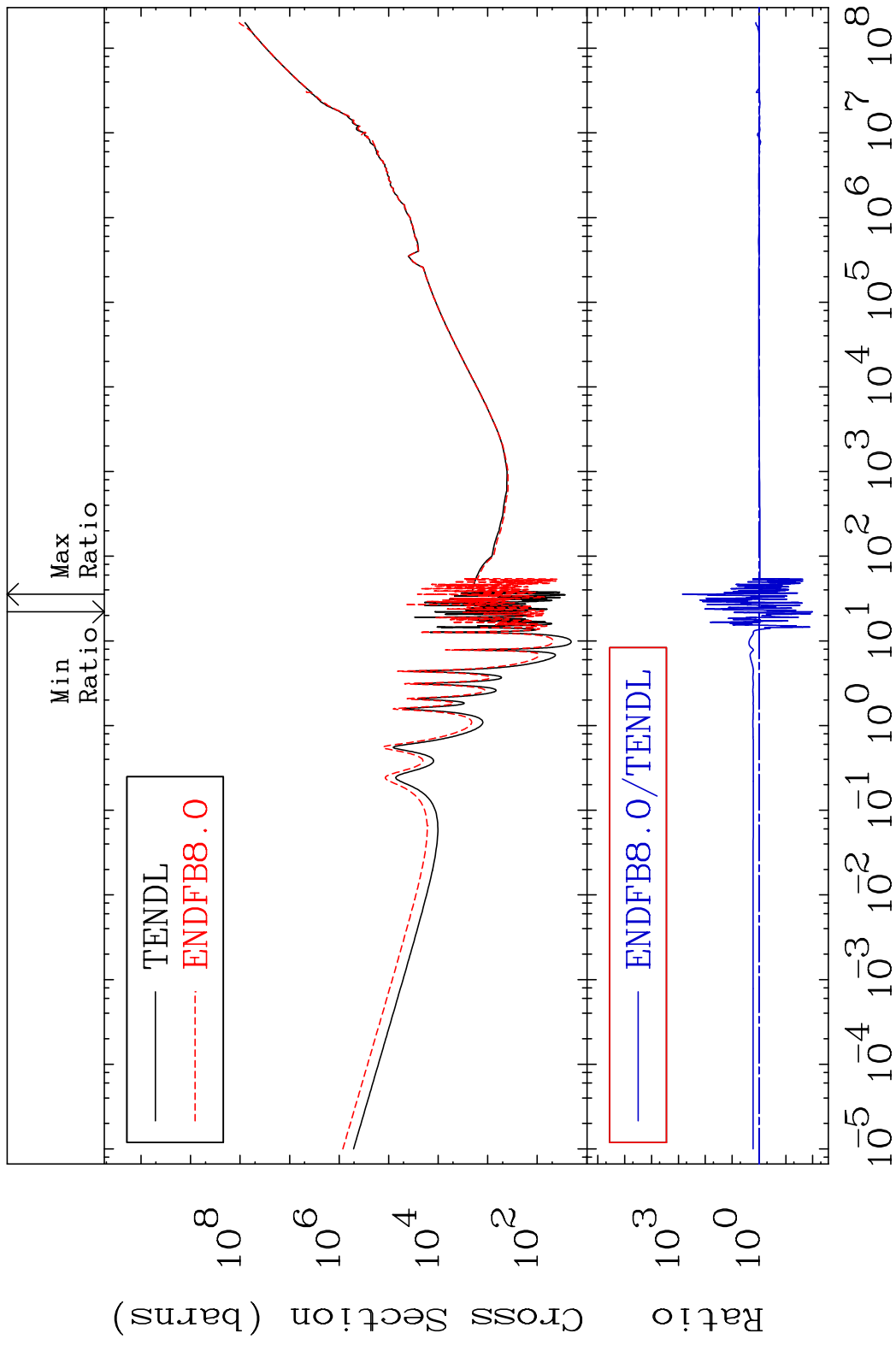
He-4 Production

77-Ir-192

Cross Section -20.34 To 6502. %



MAT 7728 Kerma total (eV-barns) 77-Ir-192  
 Cross Section -98.99 To 9999. %

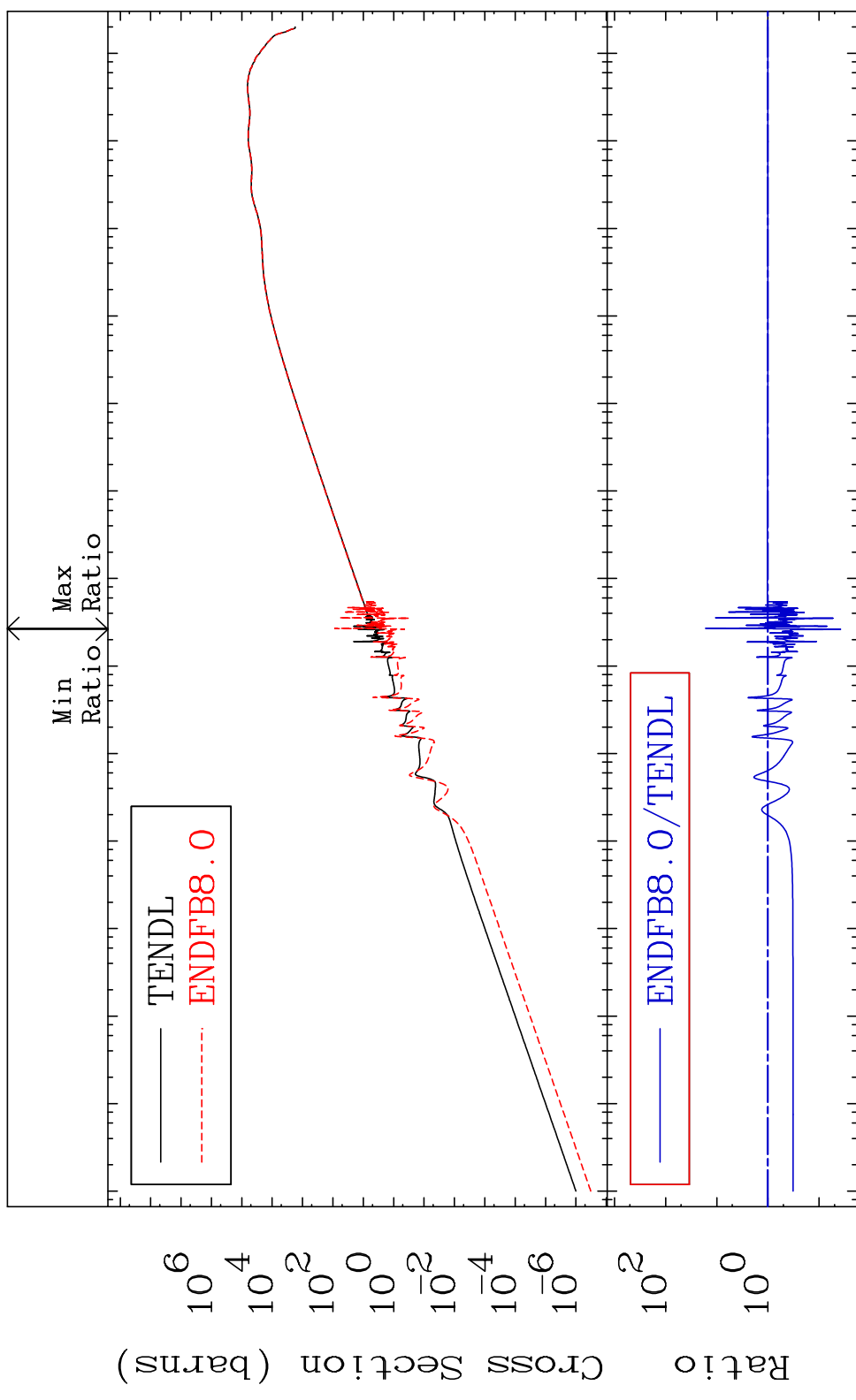


63 Incident Energy (eV) 77-Ir-192

MAT 7728

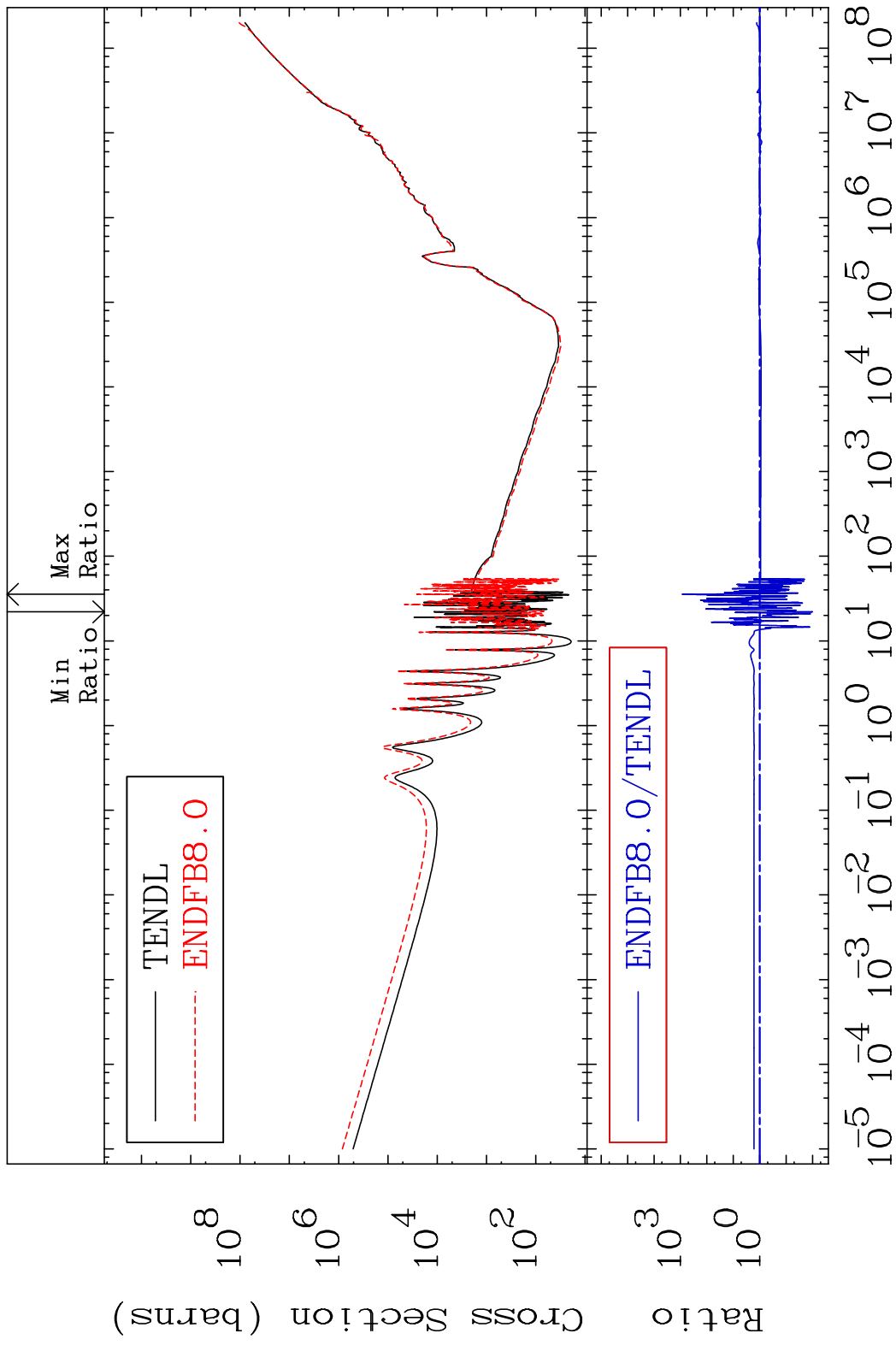
Kerma elastic  
Cross Section -96.17 To 1543. %

77-Ir-192

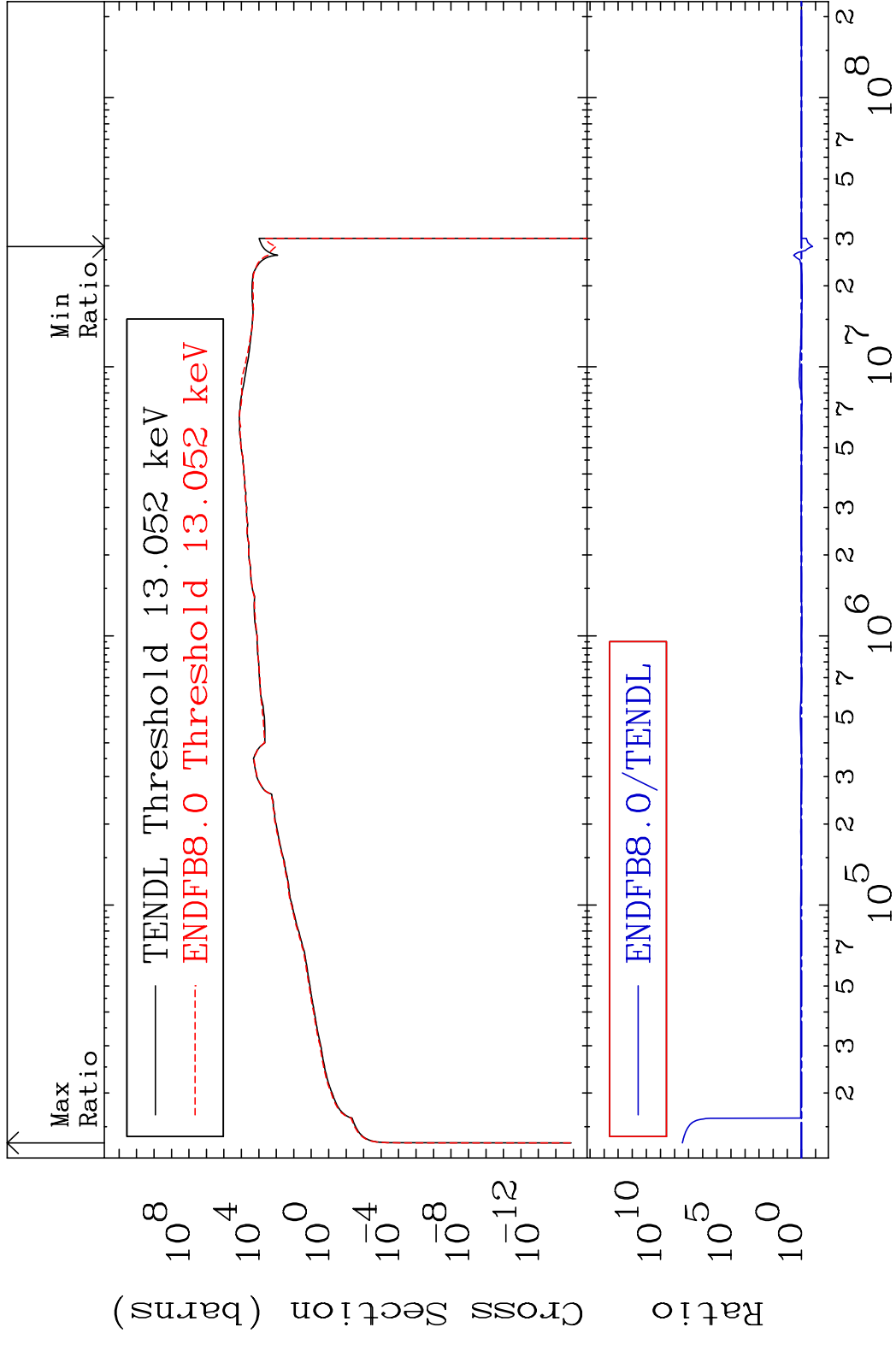


10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

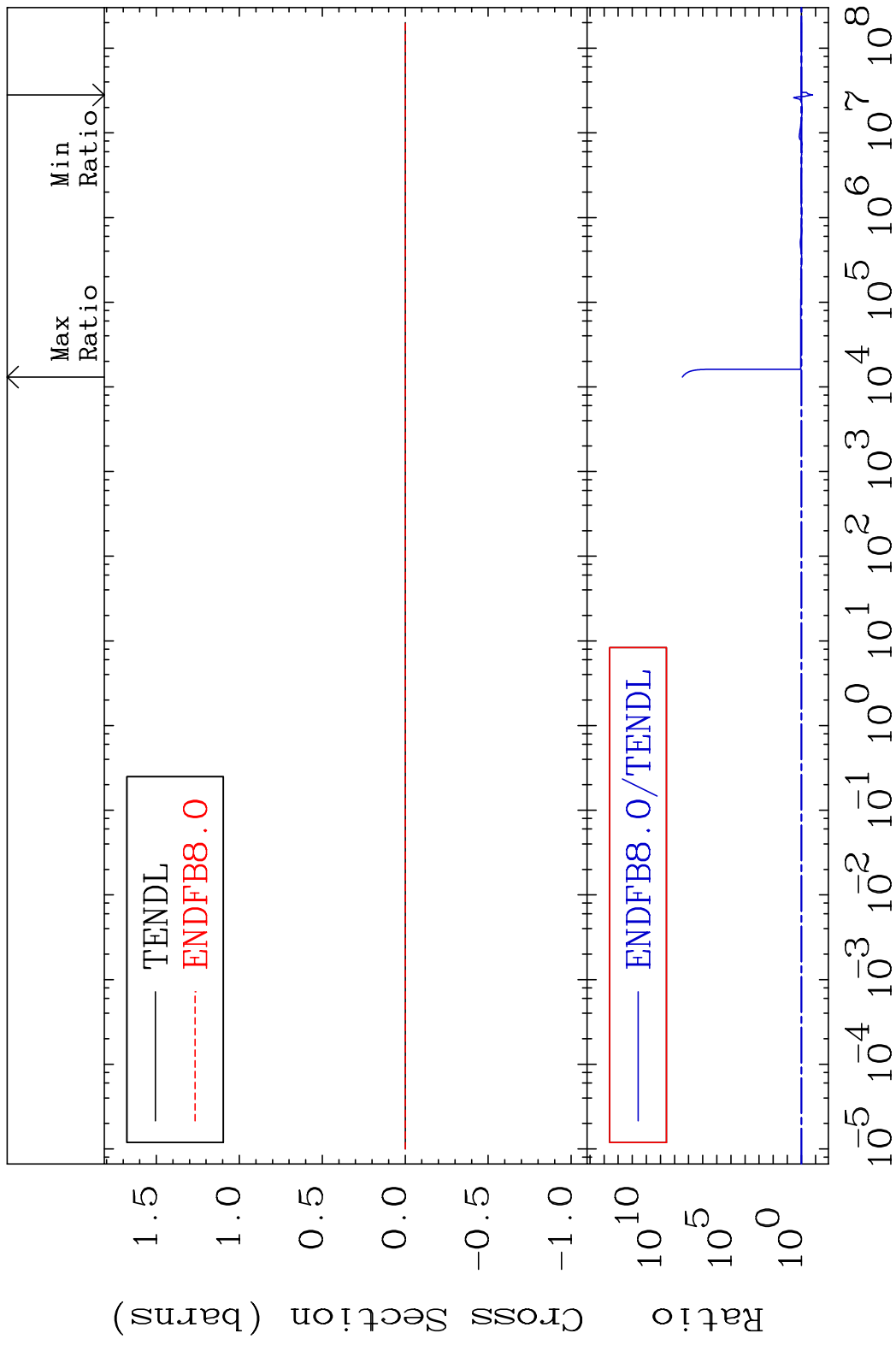
MAT 7728 Kerma non-elastic (all but mt2) 77-Ir-192  
 Cross Section -99.00 To 9999. %



MAT 7728 Kerma inelastic (mt51-91) 77-Ir-192  
 Cross Section -83.87 To 9999. %

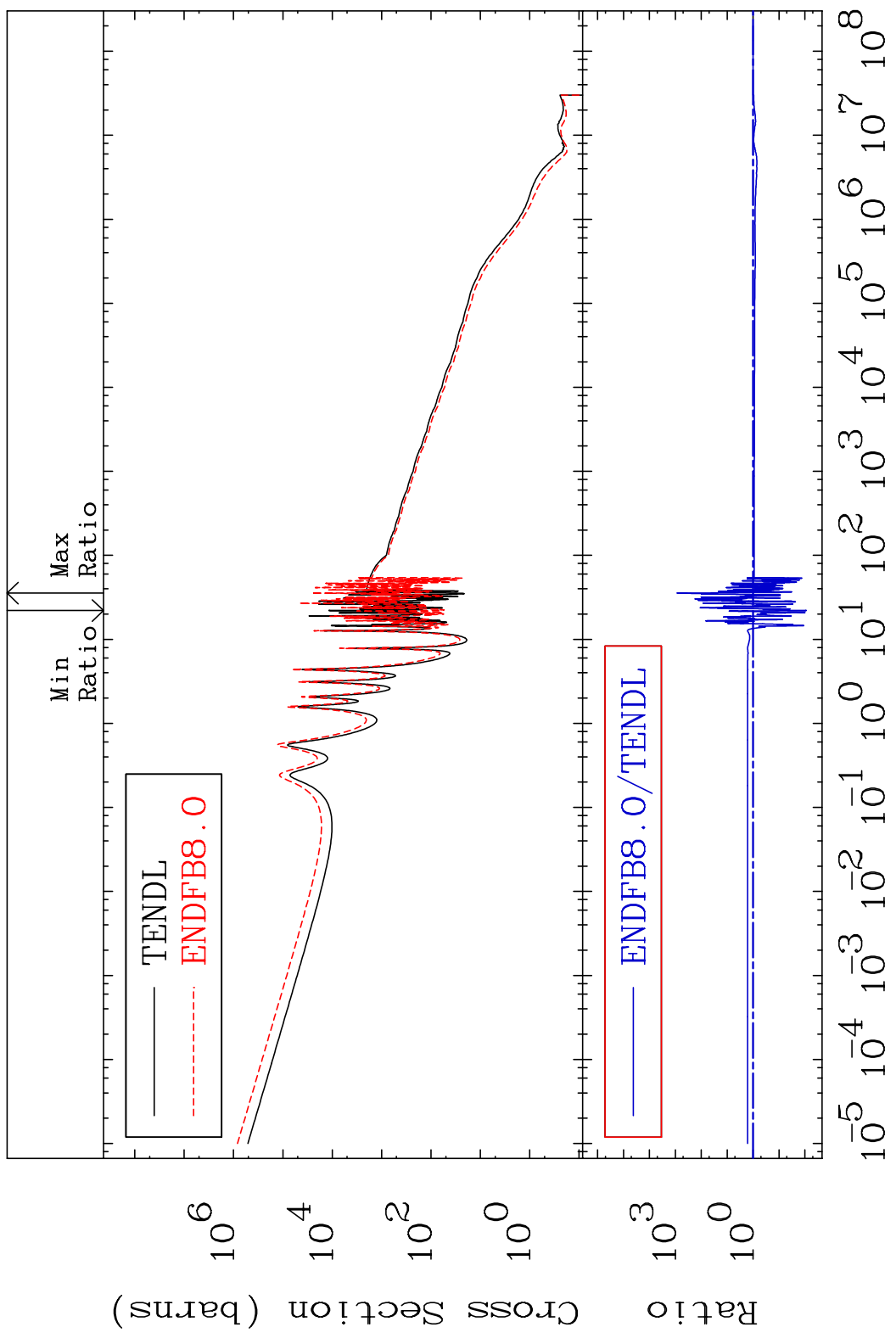


MAT 7728 Kerma fission (mt18 or mt19-20-21-38)77-Ir-192  
 Cross Section -83.87 To 9999. %



MAT 7728

Kerma capture (mt102) 77-Ir-192  
Cross Section -99.12 To 9999. %

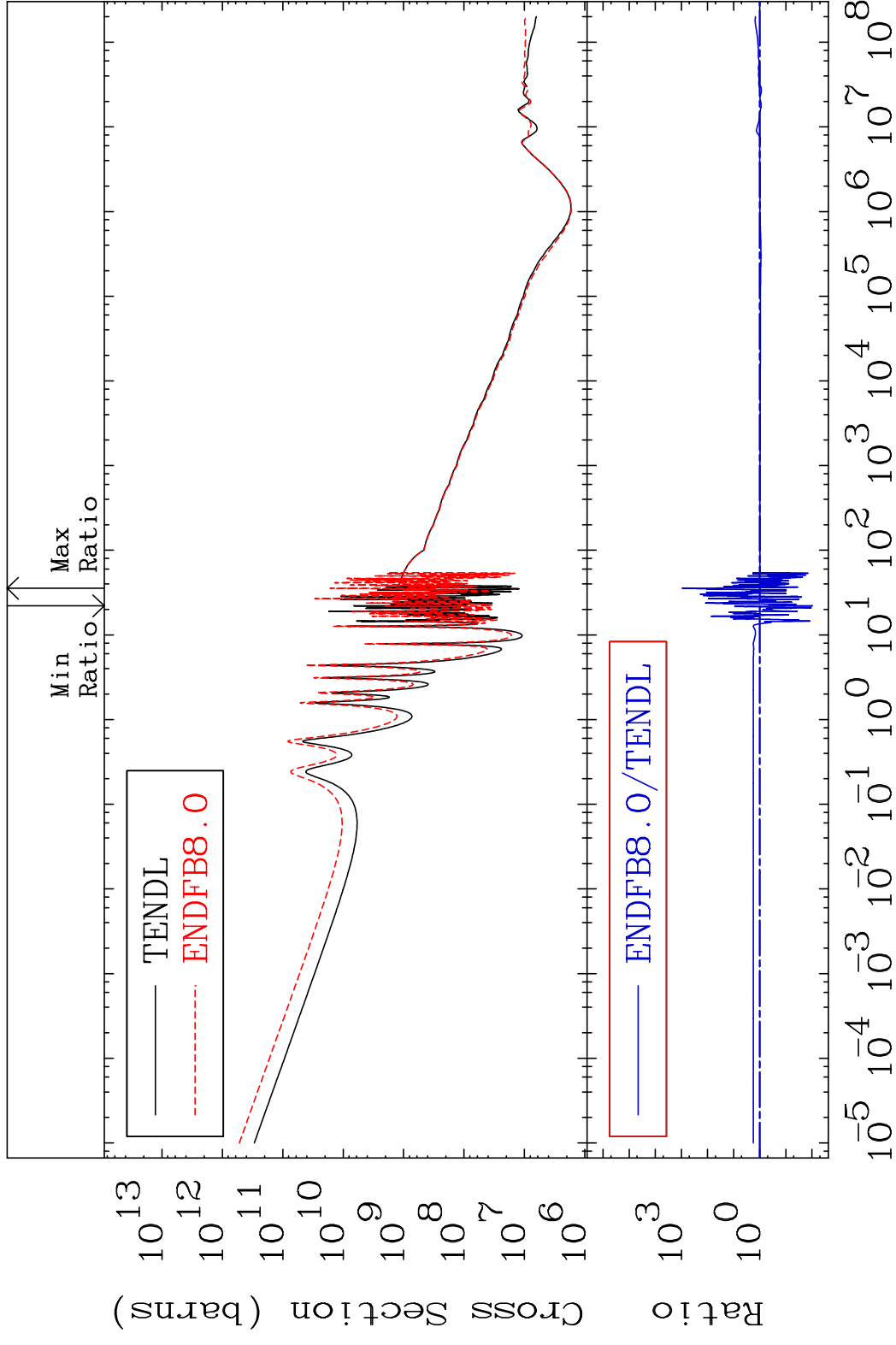


MAT 7728

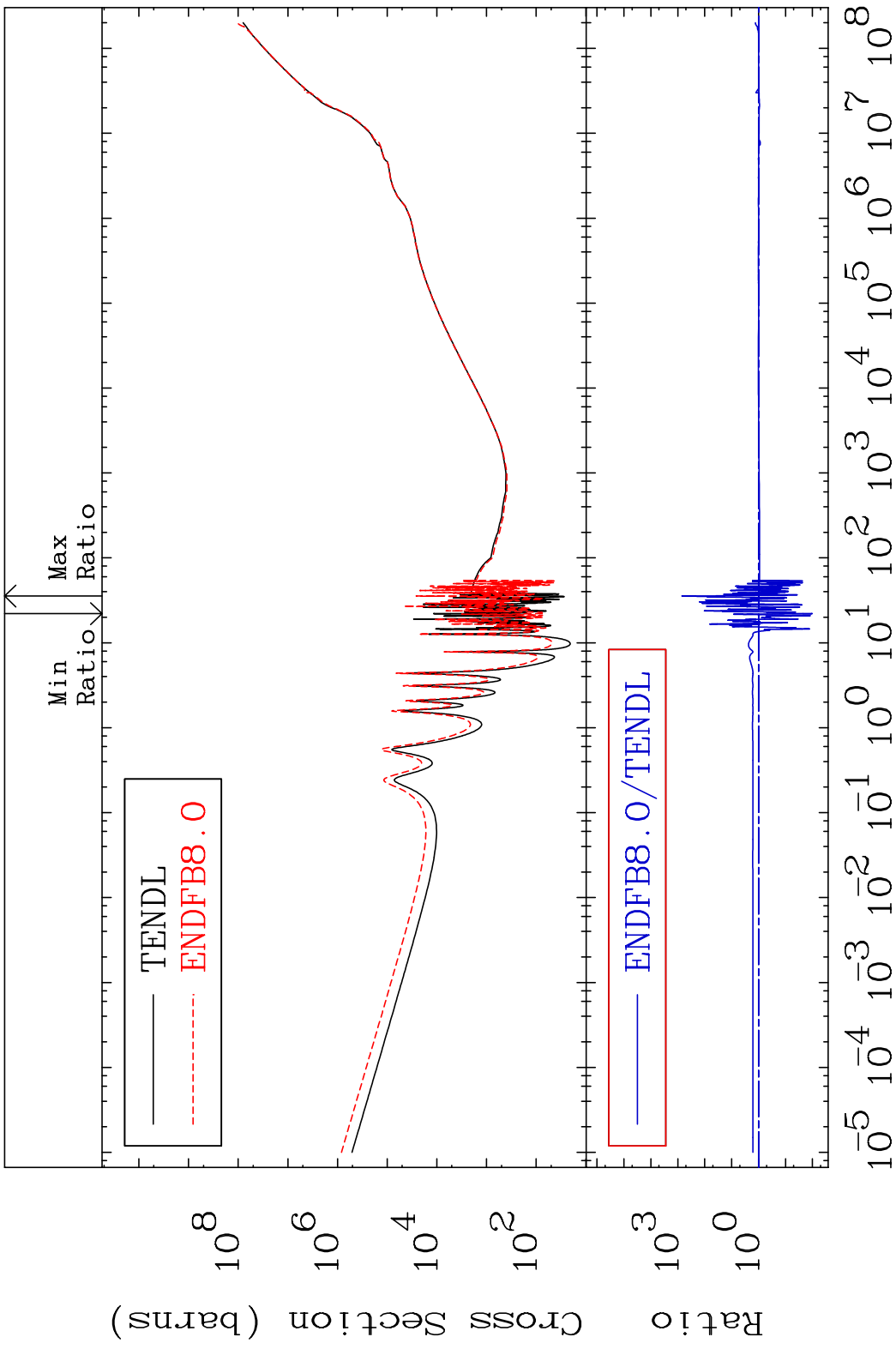
Total photon (eV-barns)

77-Ir-192

Cross Section -99.05 To 9999. %



MAT 7728 Total kinematic kerma (high limit) 77-Ir-192  
Cross Section -98.99 To 9999. %

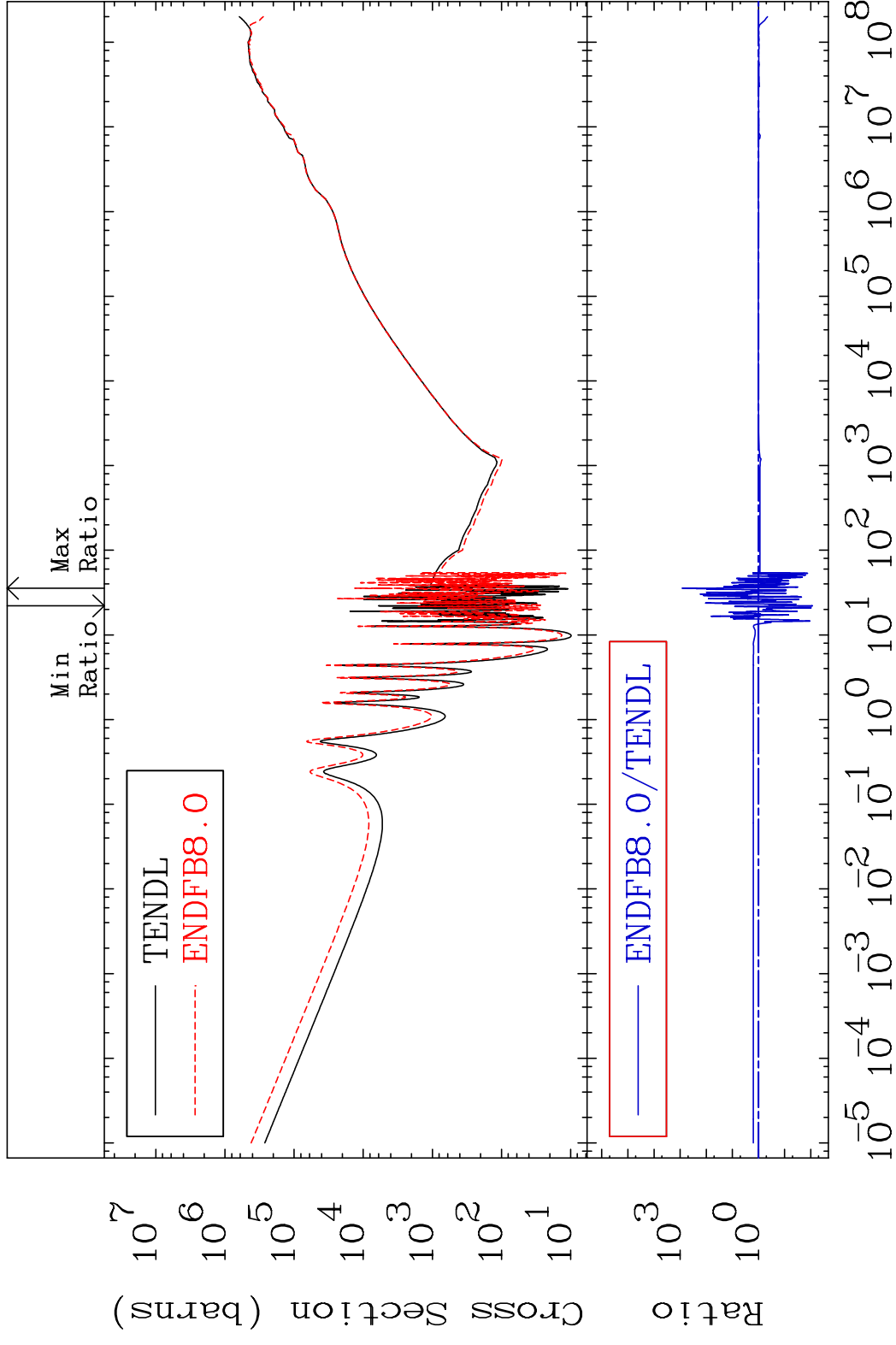


MAT 7728

Dpa total (eV-barns)

77-Ir-192

Cross Section -99.15 To 9999. %



71

Incident Energy (eV)

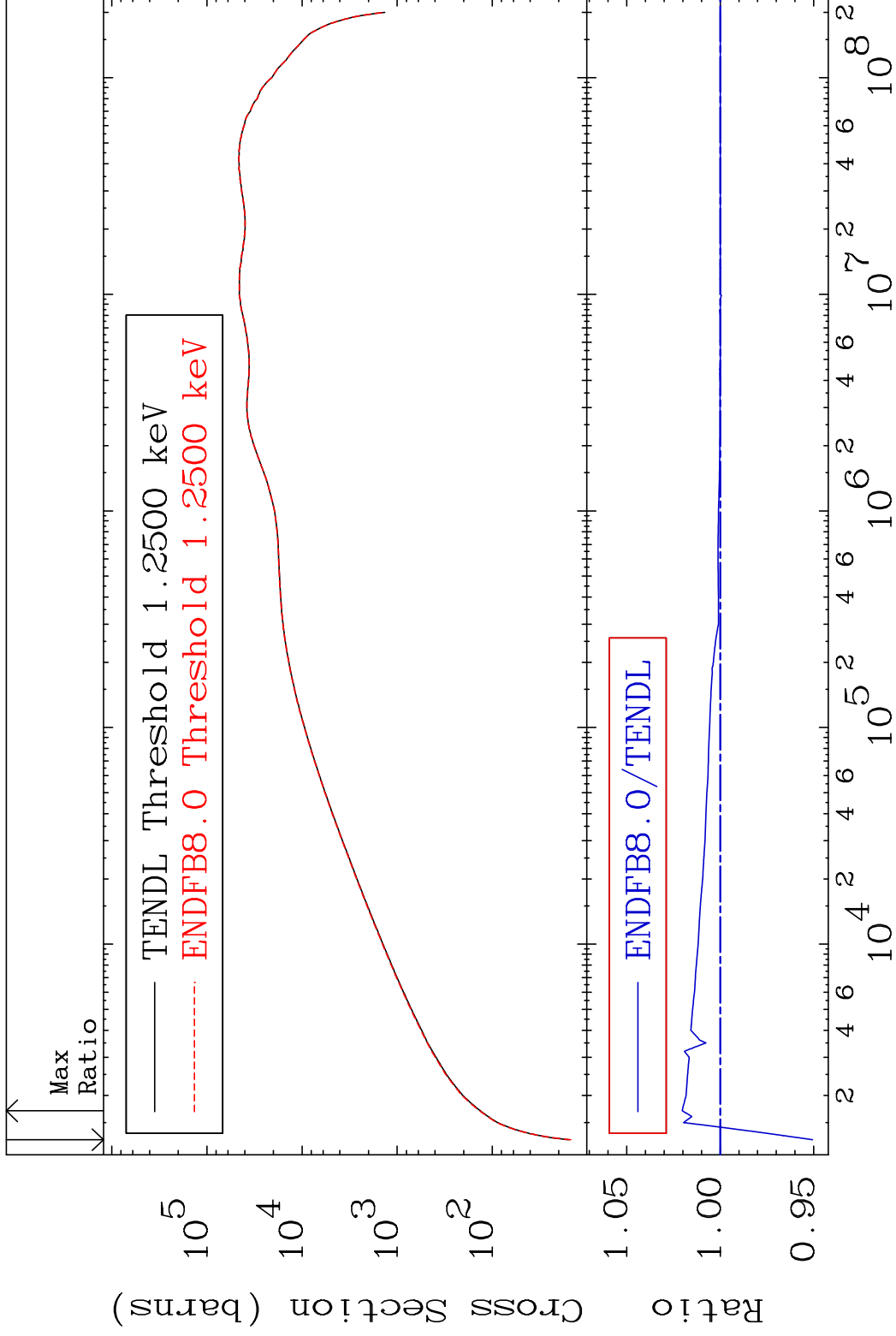
77-Ir-192

MAT 7728

Dpa elastic (mt2)

77-Ir-192

Cross Section -4.934 To 2.036 %

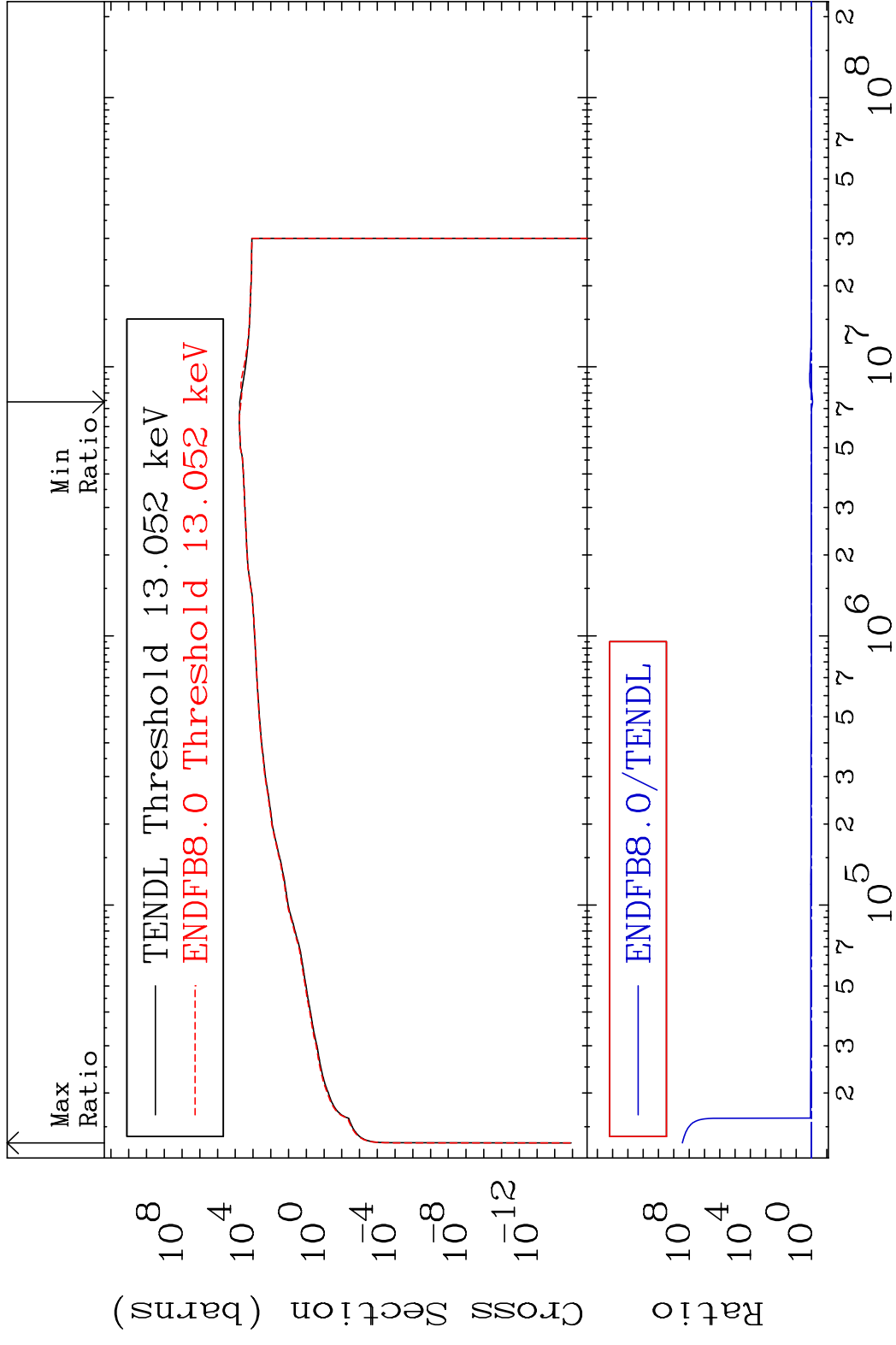


72

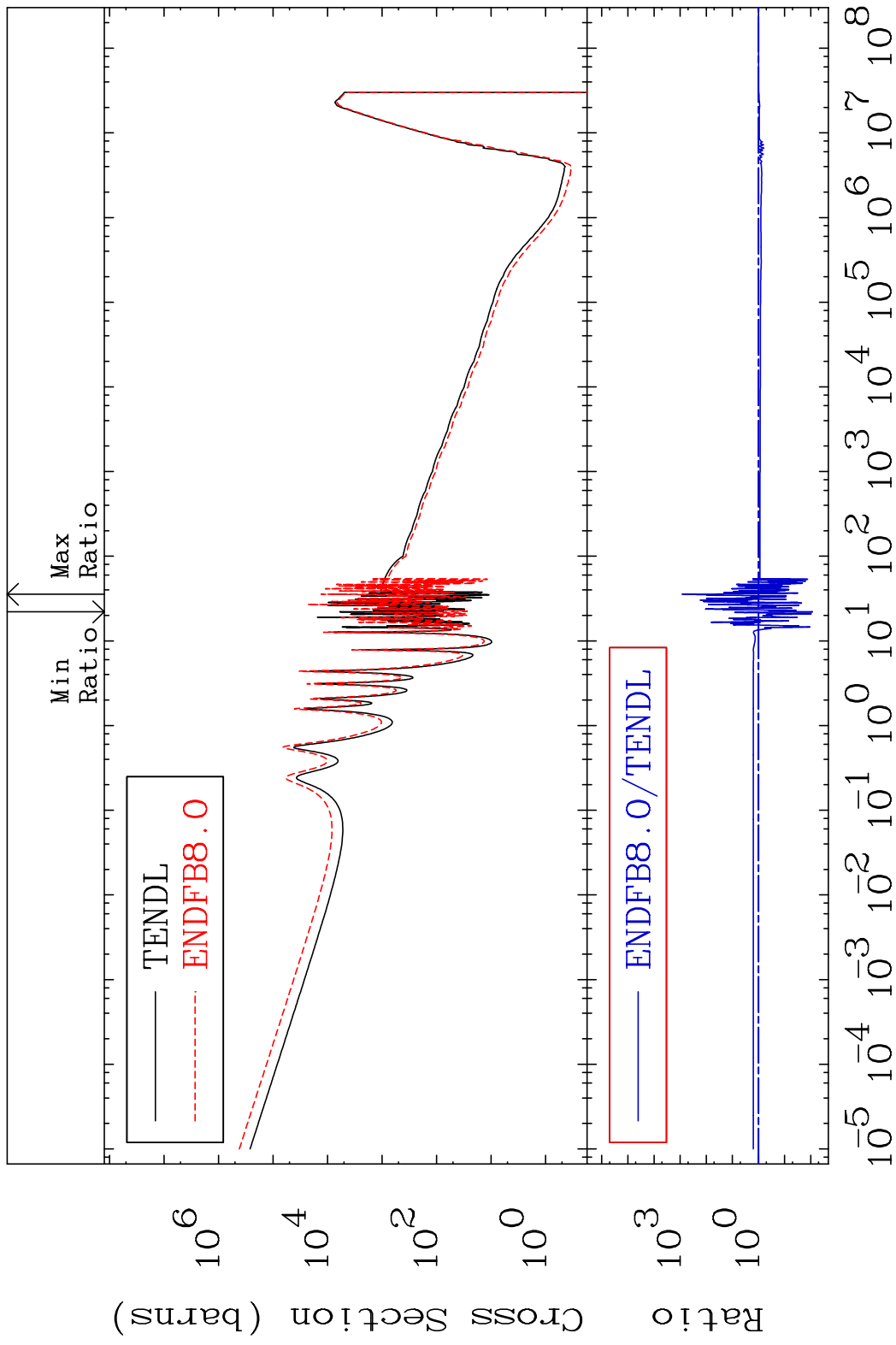
Incident Energy (eV)

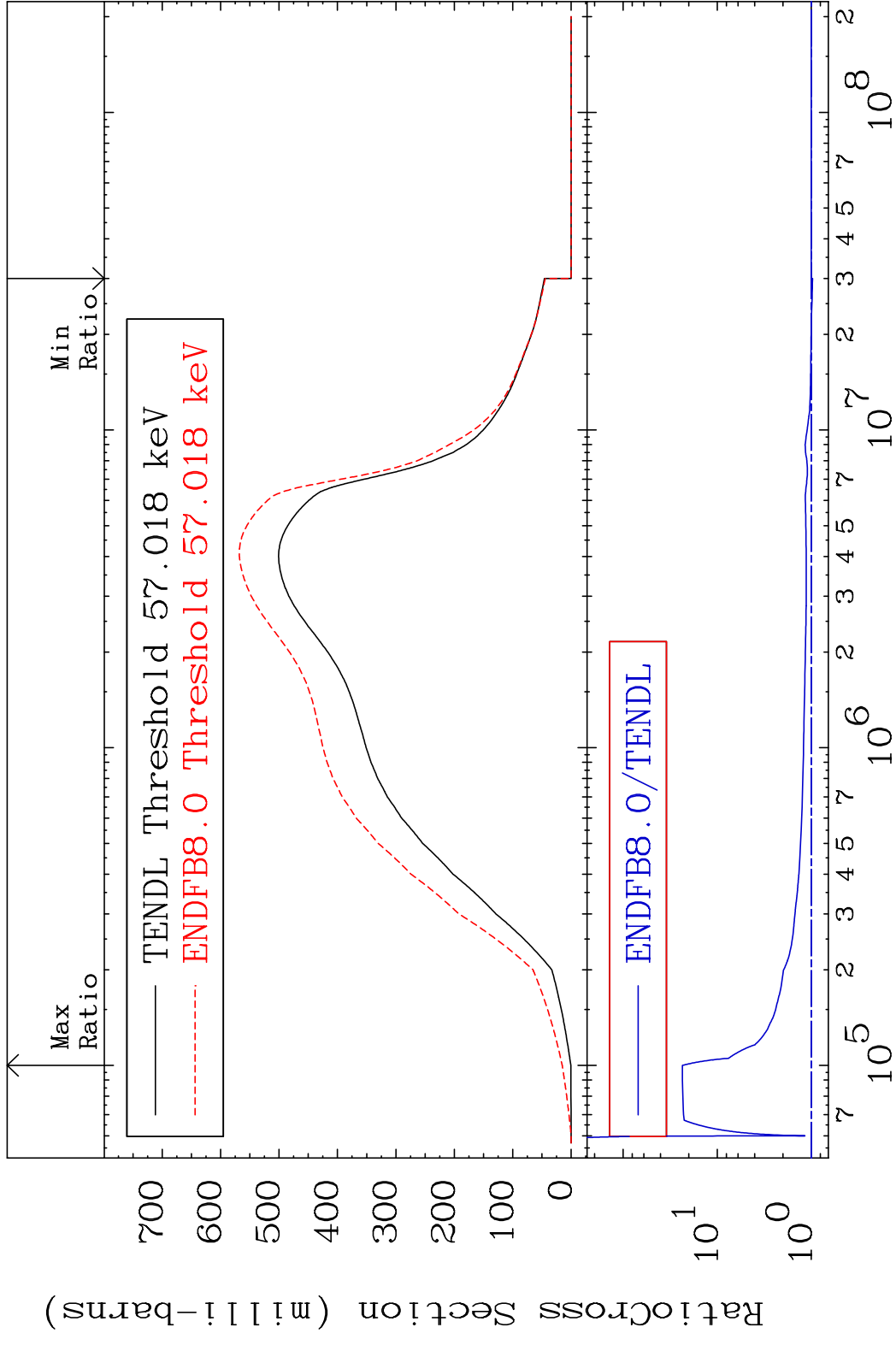
77-Ir-192

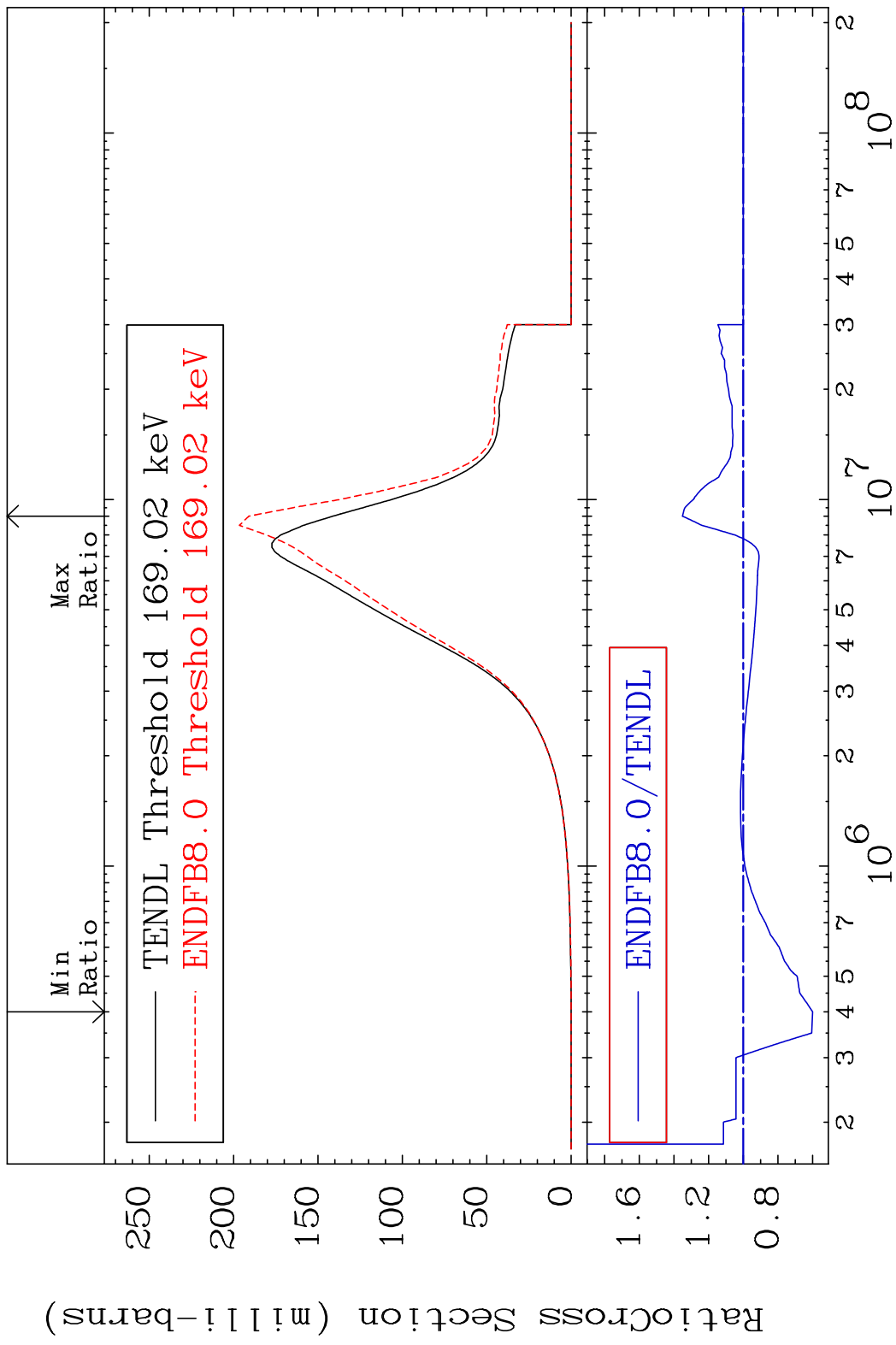
MAT 7728      Dpa inelastic (mt51-91)      77-Ir-192  
 Cross Section      -16.13 To 9999. %



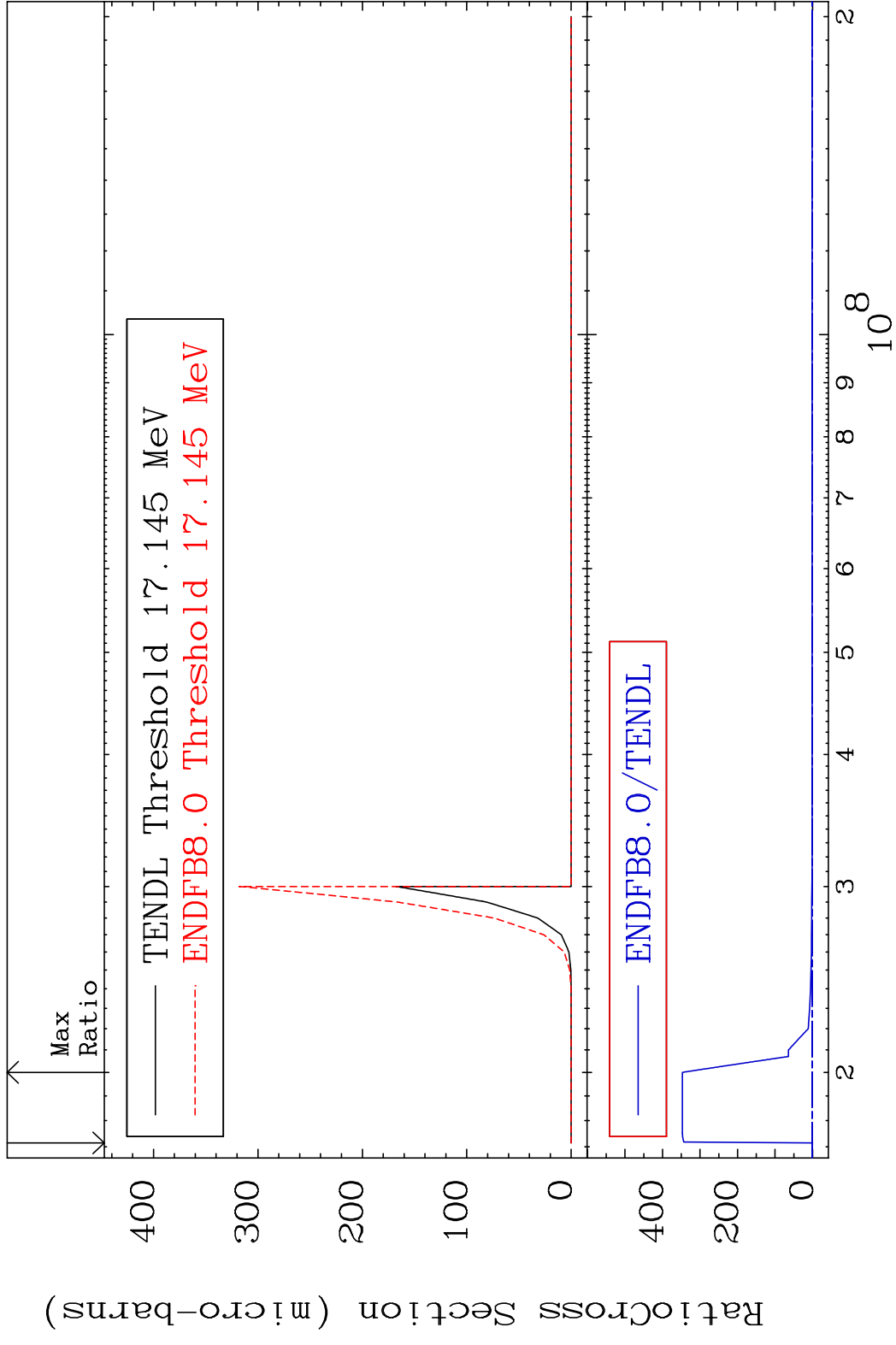
MAT 7728 Dpa disappearance (mt102 -120) 77-Ir-192  
 Cross Section -99.15 To 9999. %

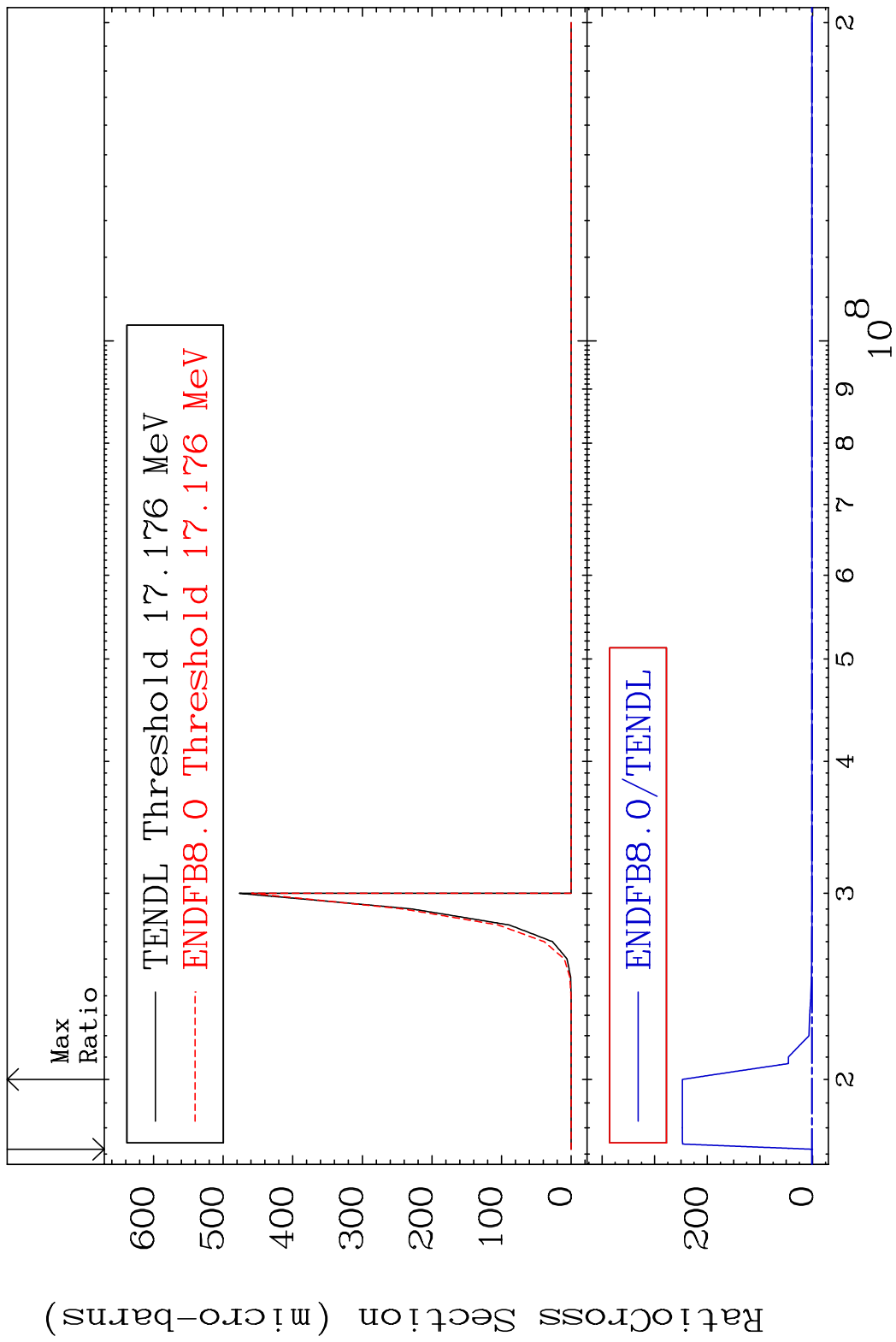




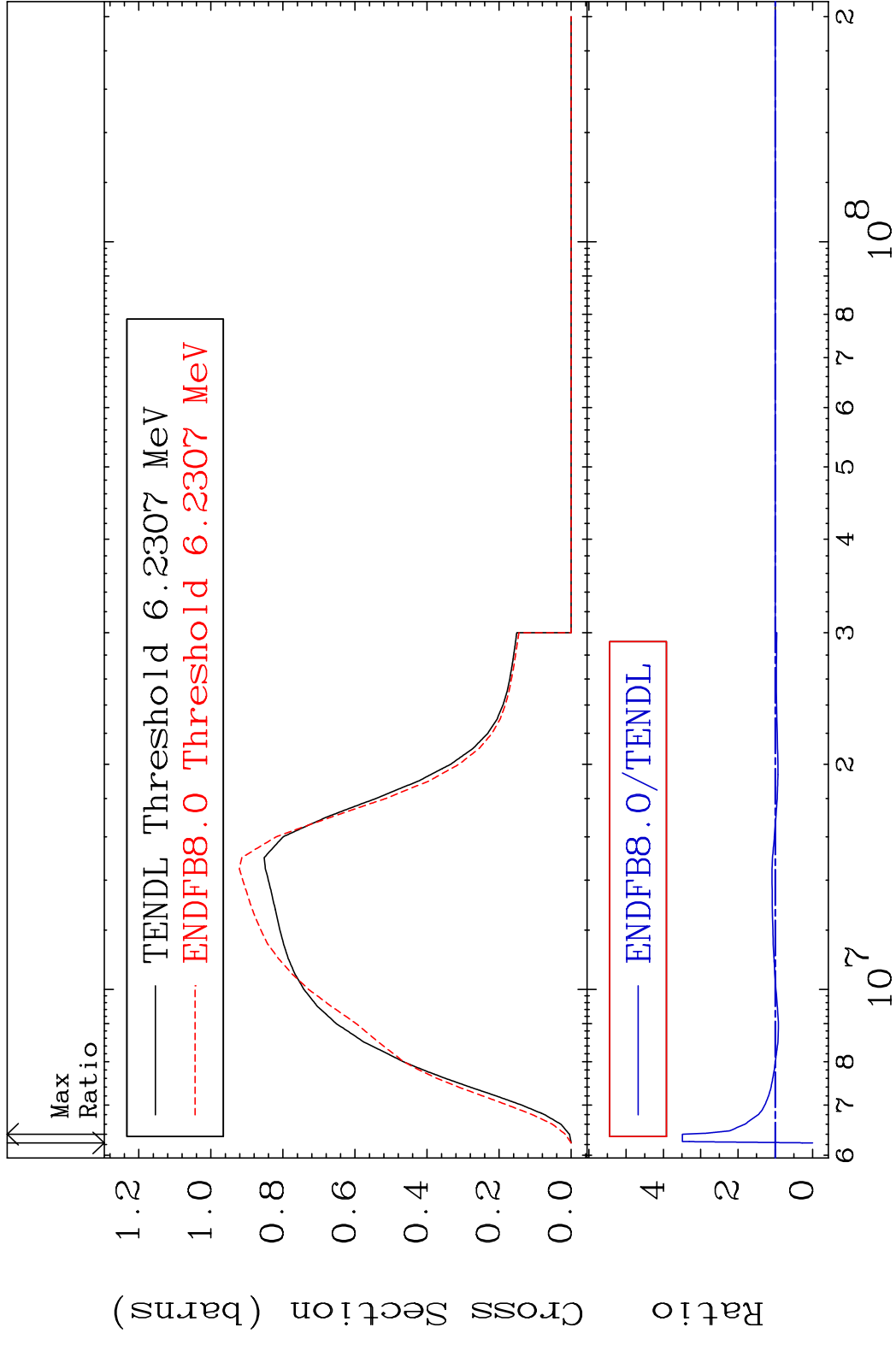


MAT 7728 (n,2n) d:76-0s-189g 77-Ir-192  
 Radionuclide Production Cross Section Ratio 9999. %

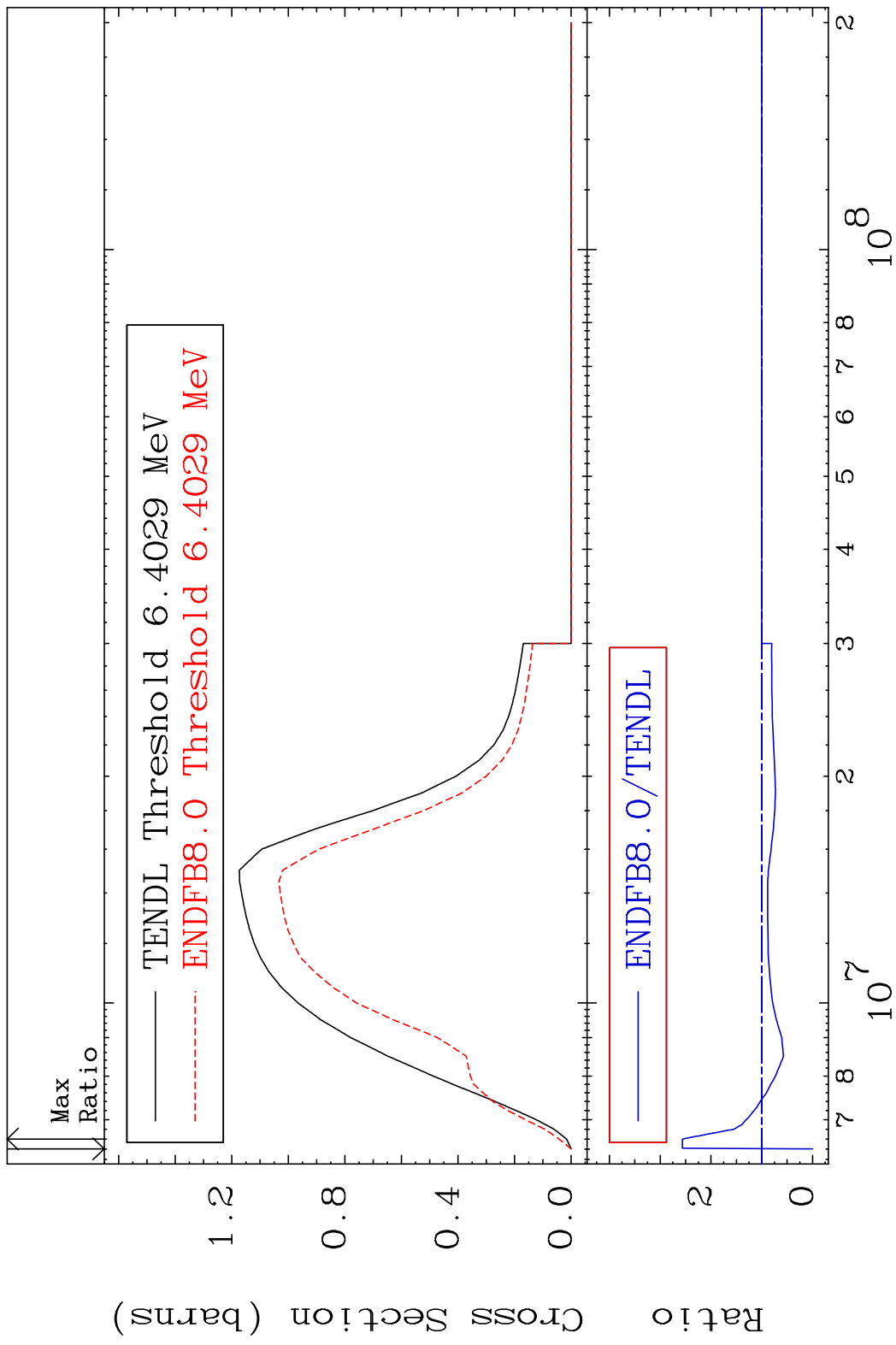




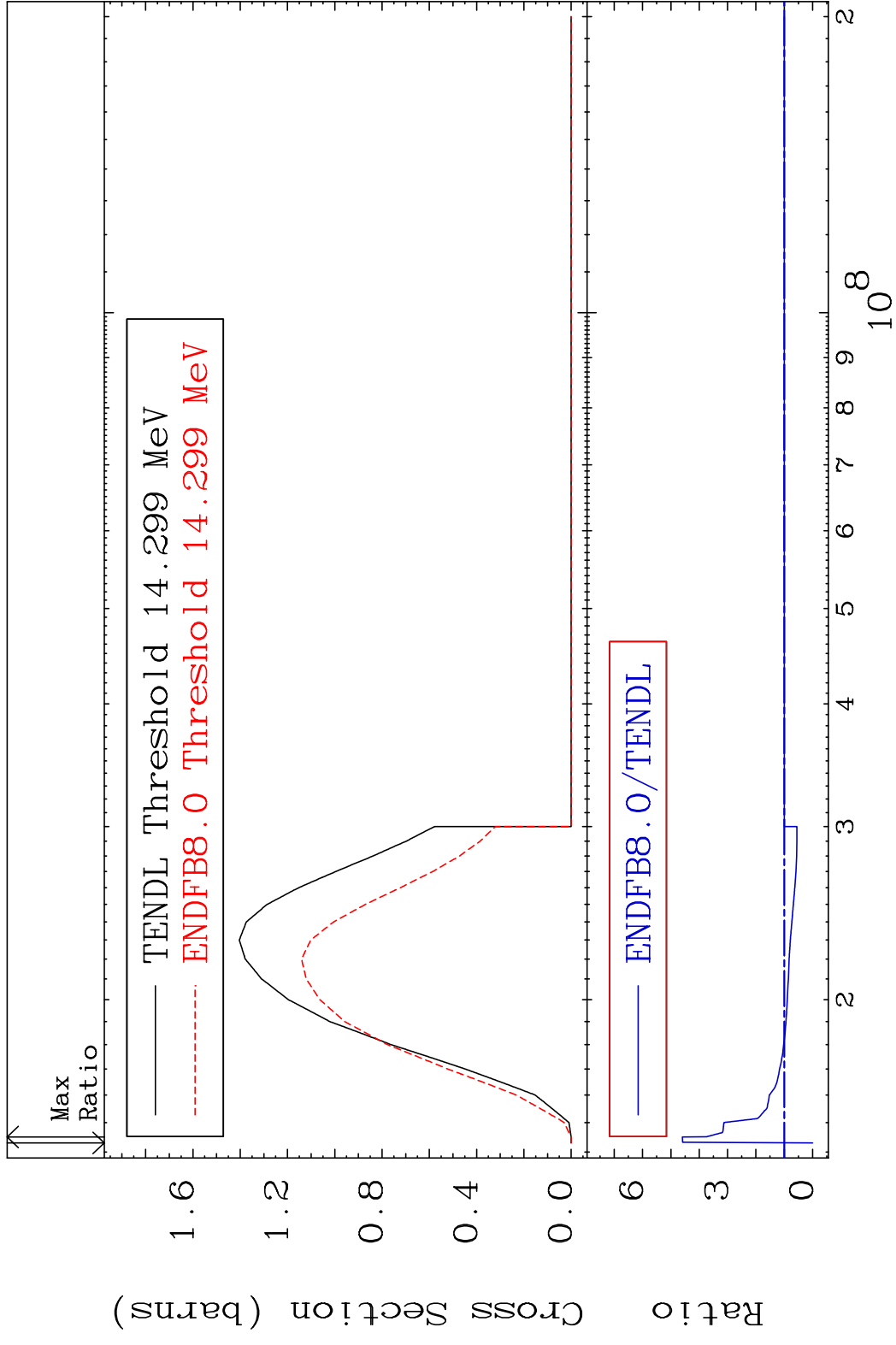
MAT 7728 (n,2n):77-Ir-191g 77-Ir-192  
 Radionuclide Production Cross Section Ratio 249.1 %



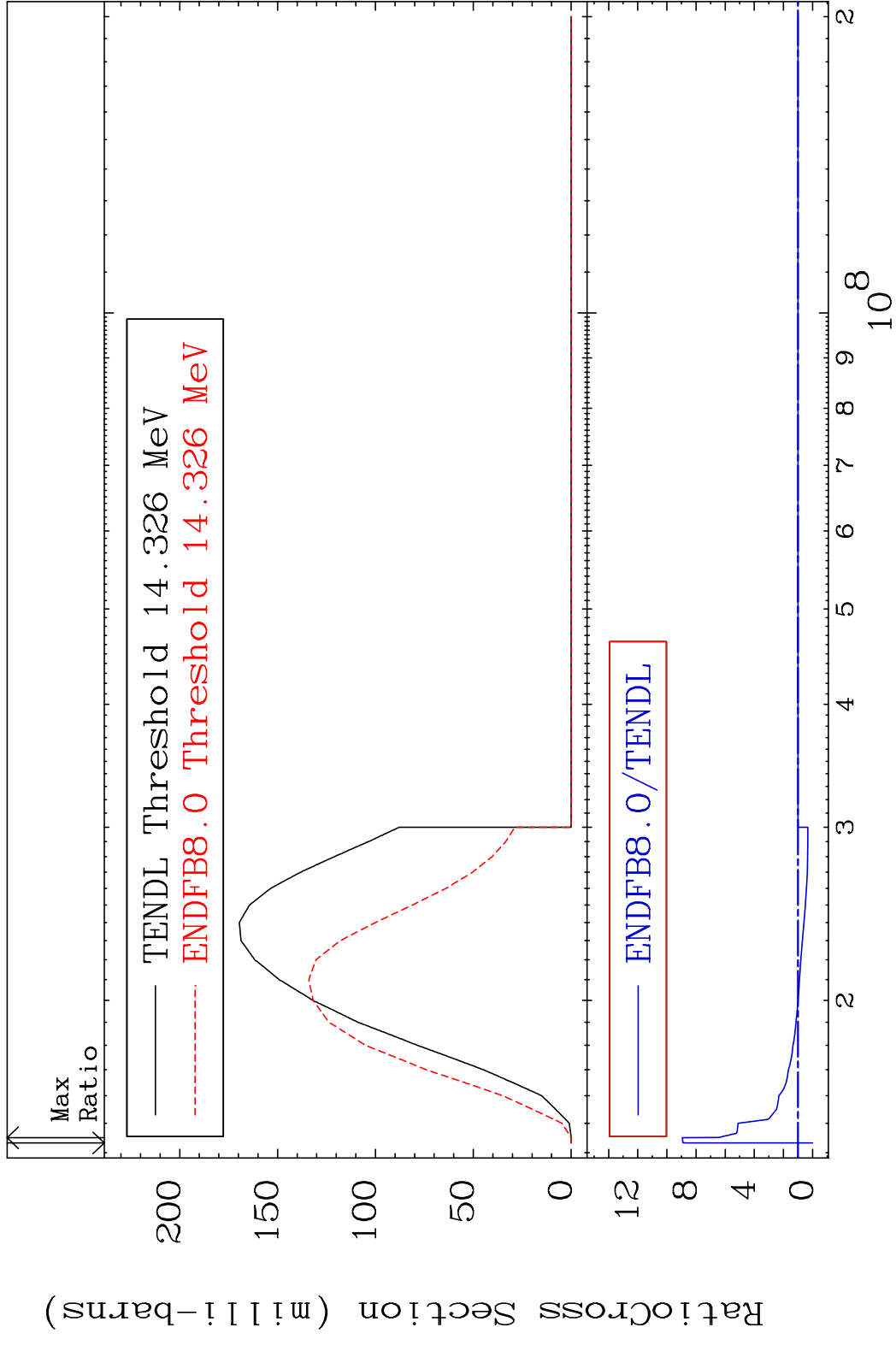
MAT 7728 (n,2n):77-Ir-191m3 77-Ir-192  
 Radionuclide Production Cross Section 156.3 %



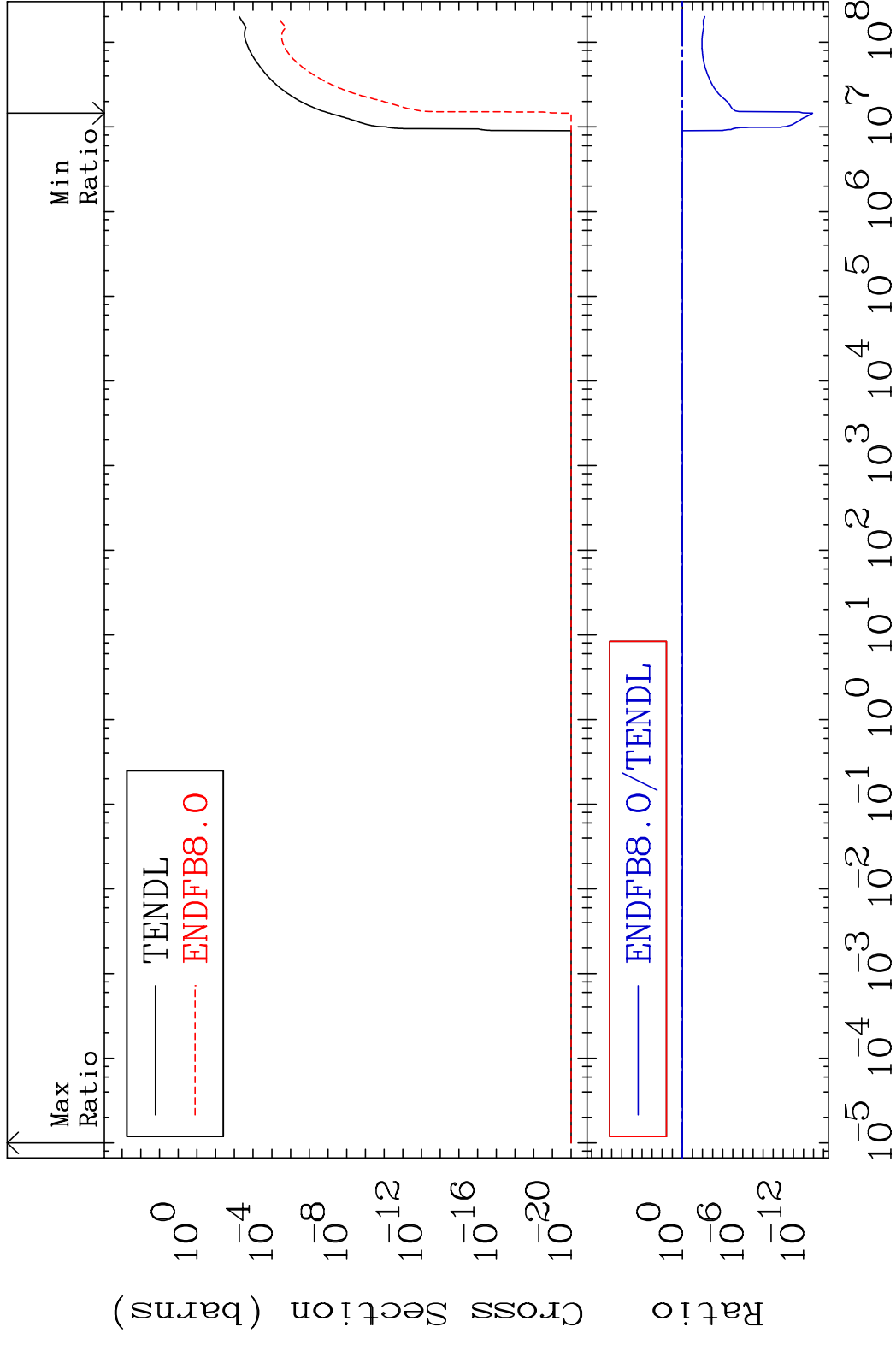
MAT 7728 (n,3n):77-Ir-190g 77-Ir-192  
 Radionuclide Production Cross Section Ratio 359.6 %

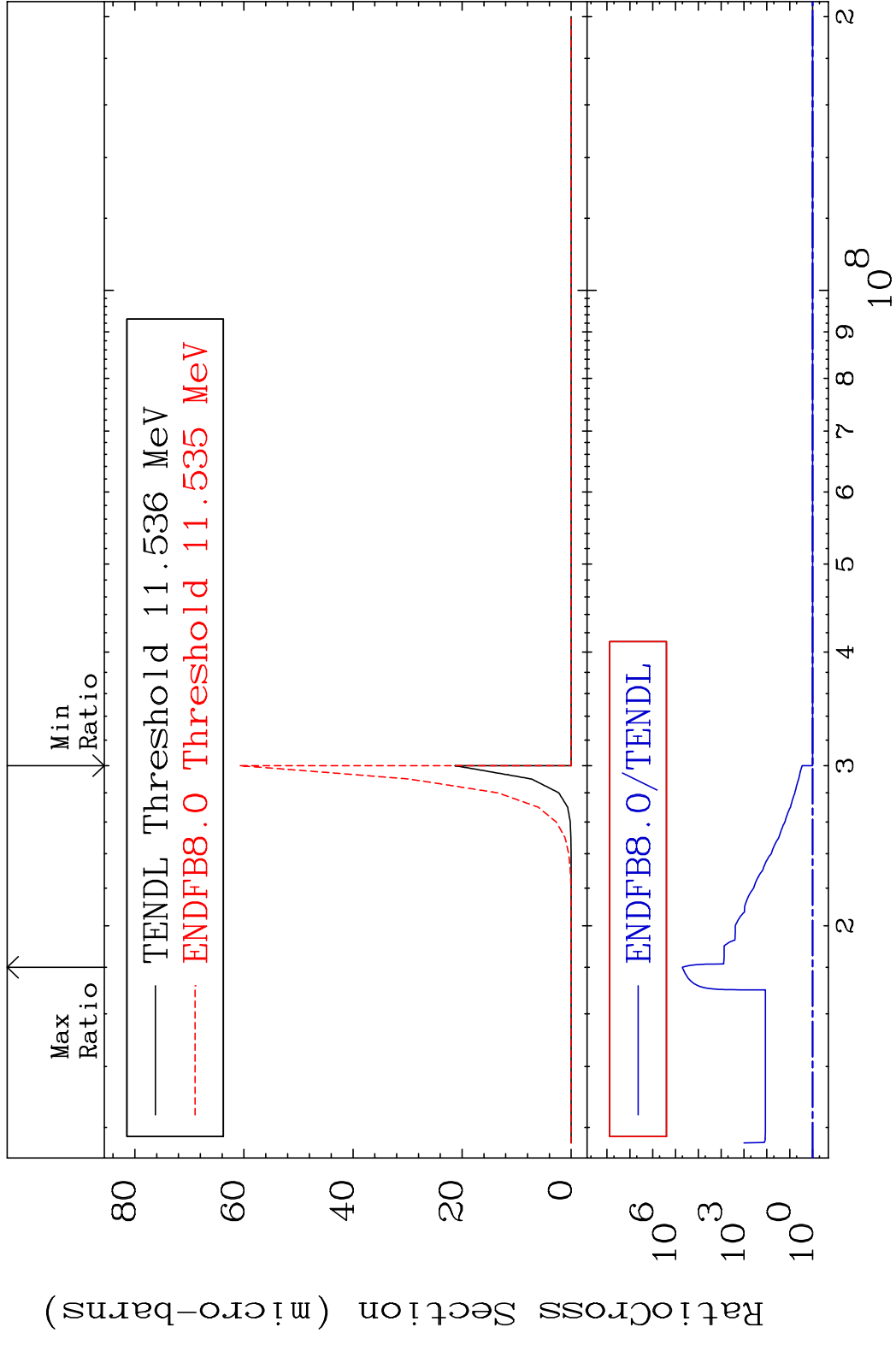


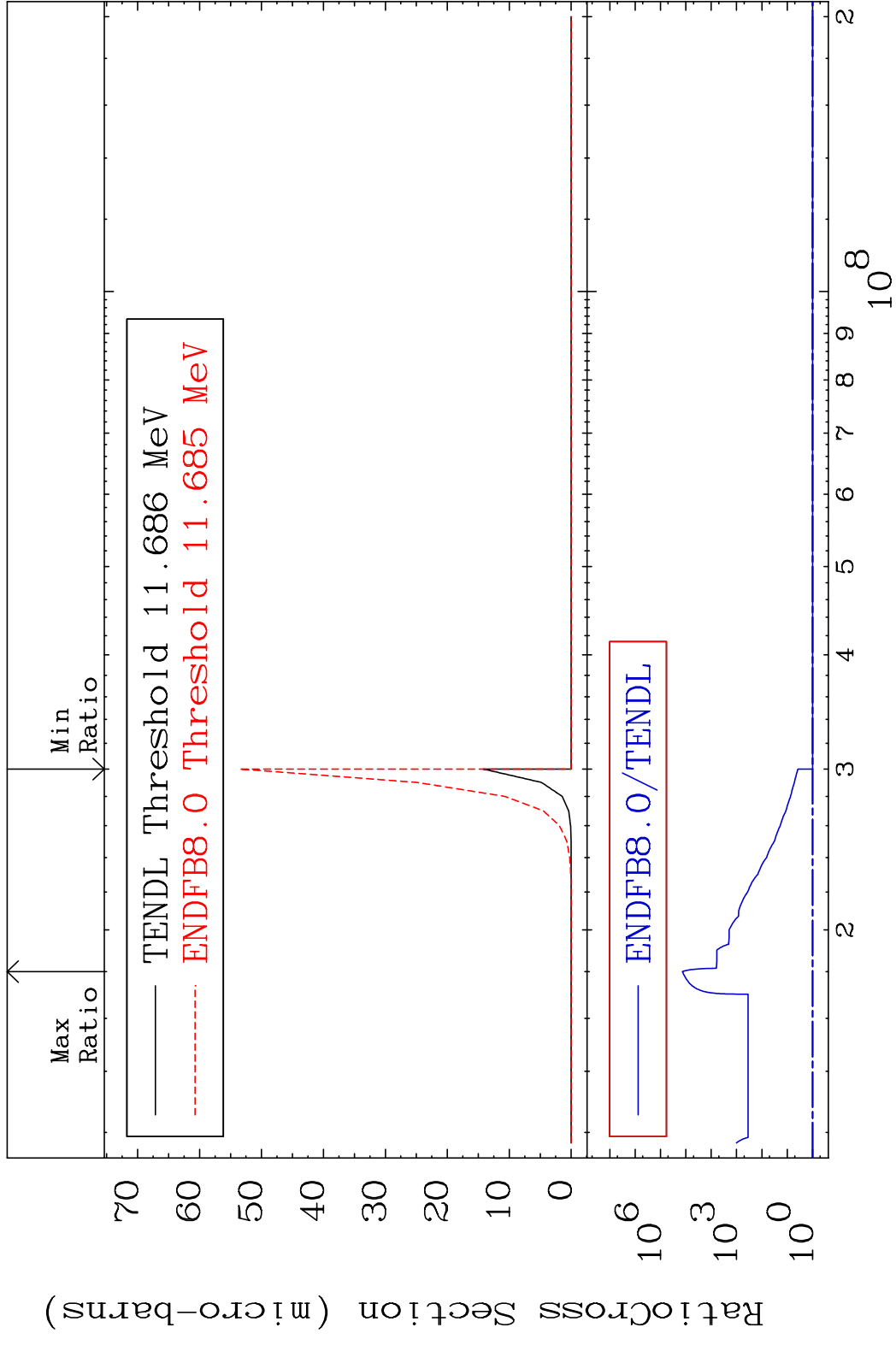
MAT 7728 (n, 3n): 77-Ir-190m2 77-Ir-192  
 Radionuclide Production Cross Section 180.0 dth 793.8 %

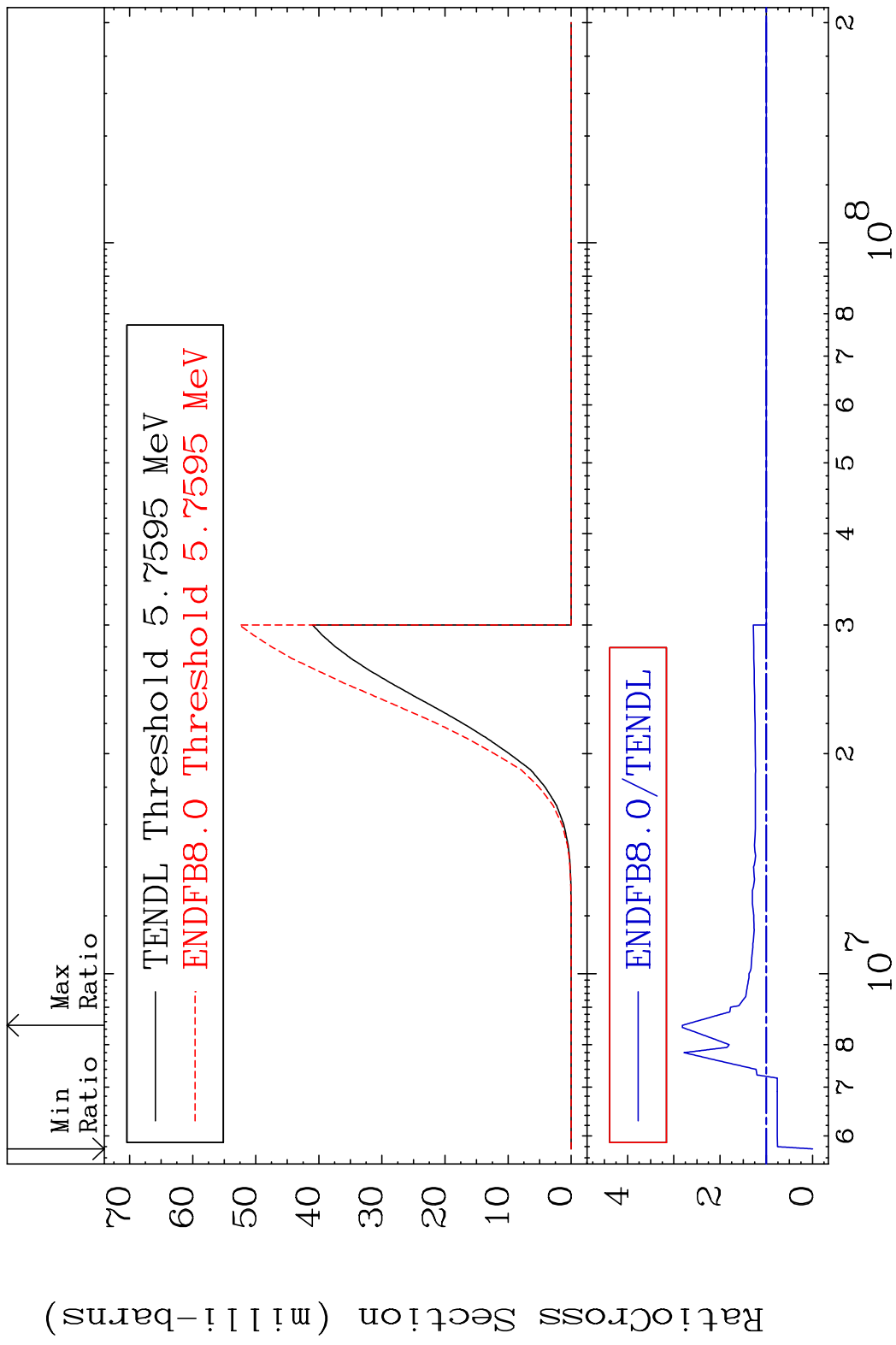


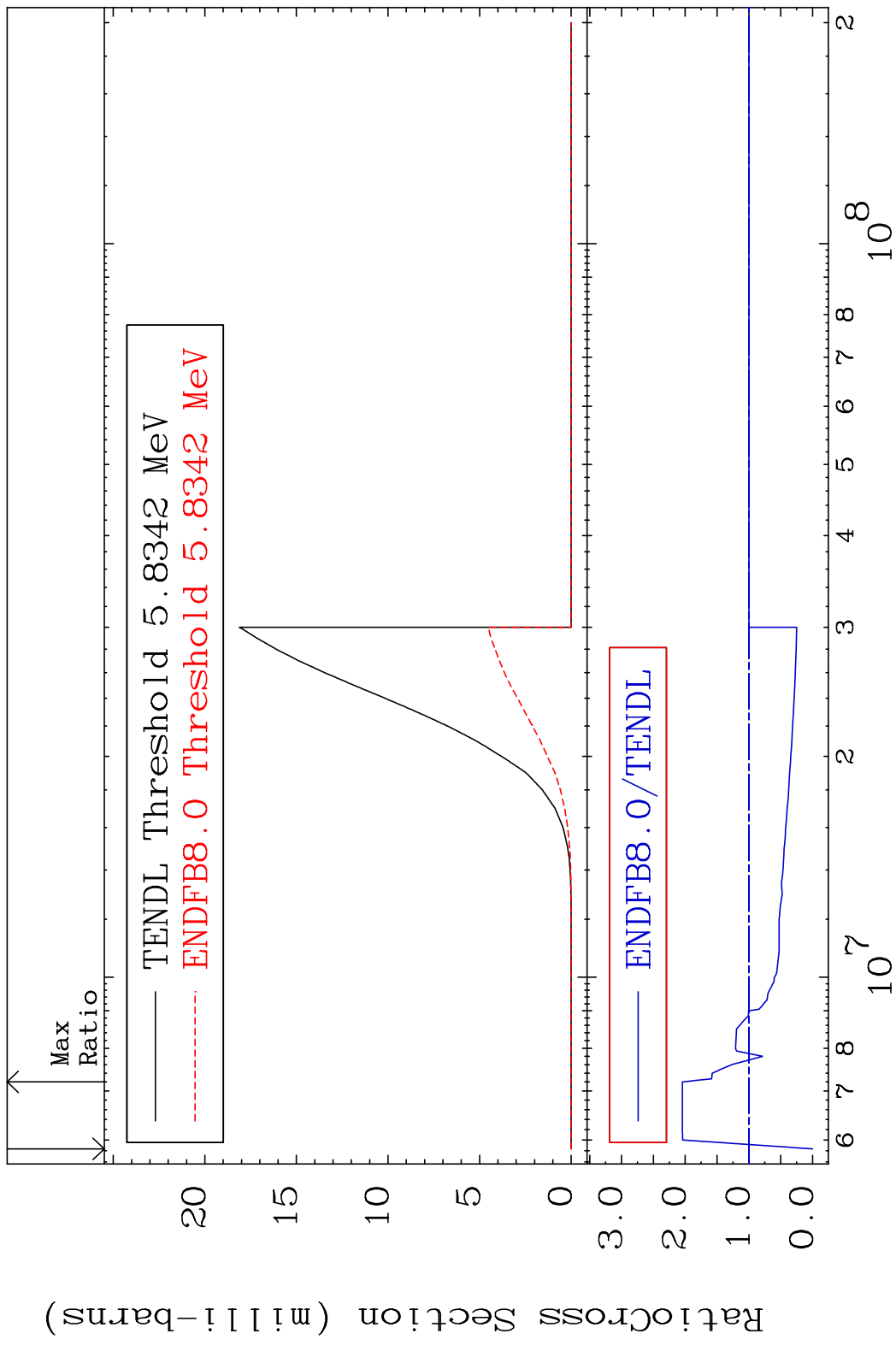
MAT 7728 Fission:0-??-Nat 77-Ir-192  
 Radionuclide Production Cross Section 0.000 %



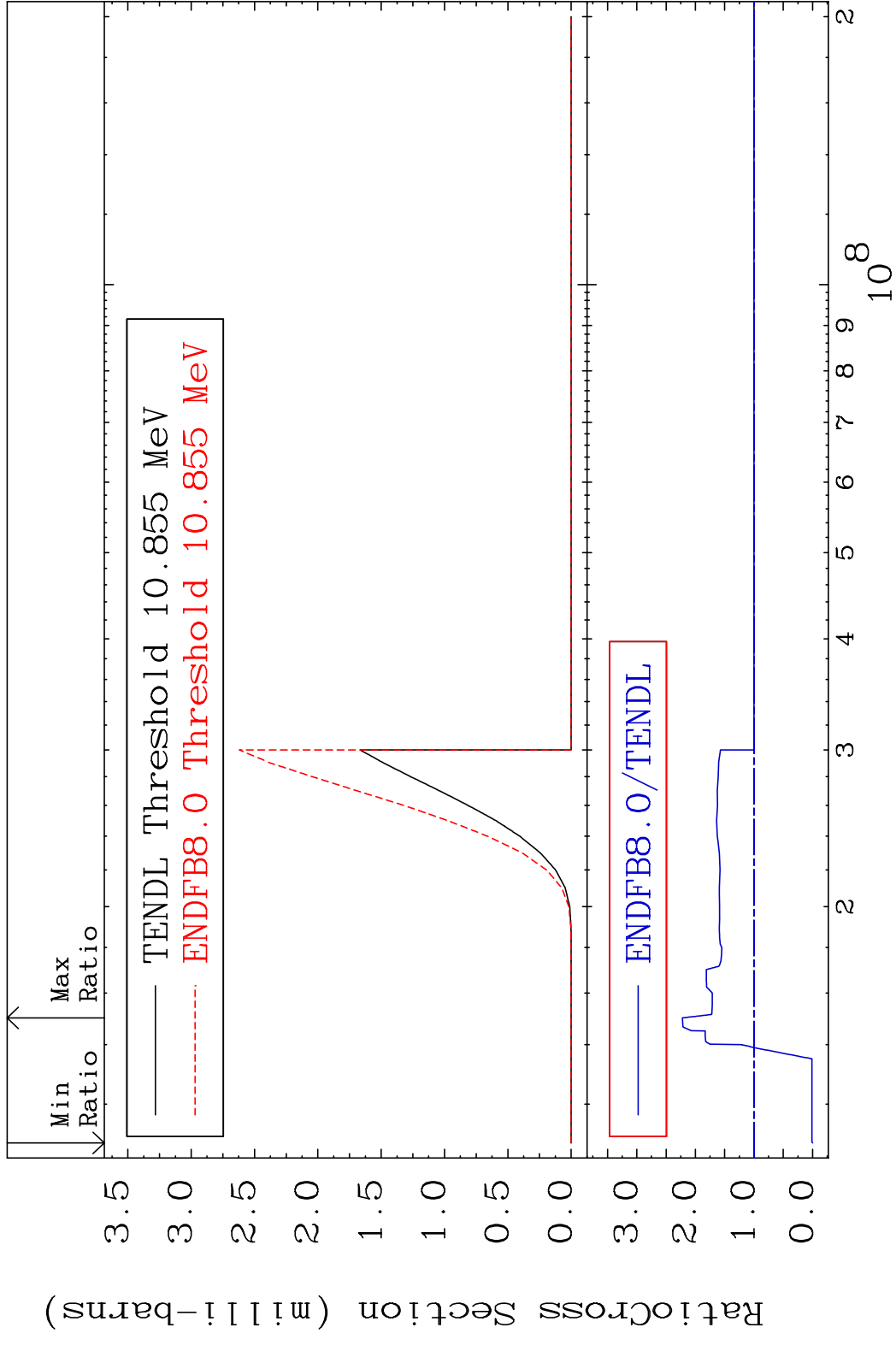




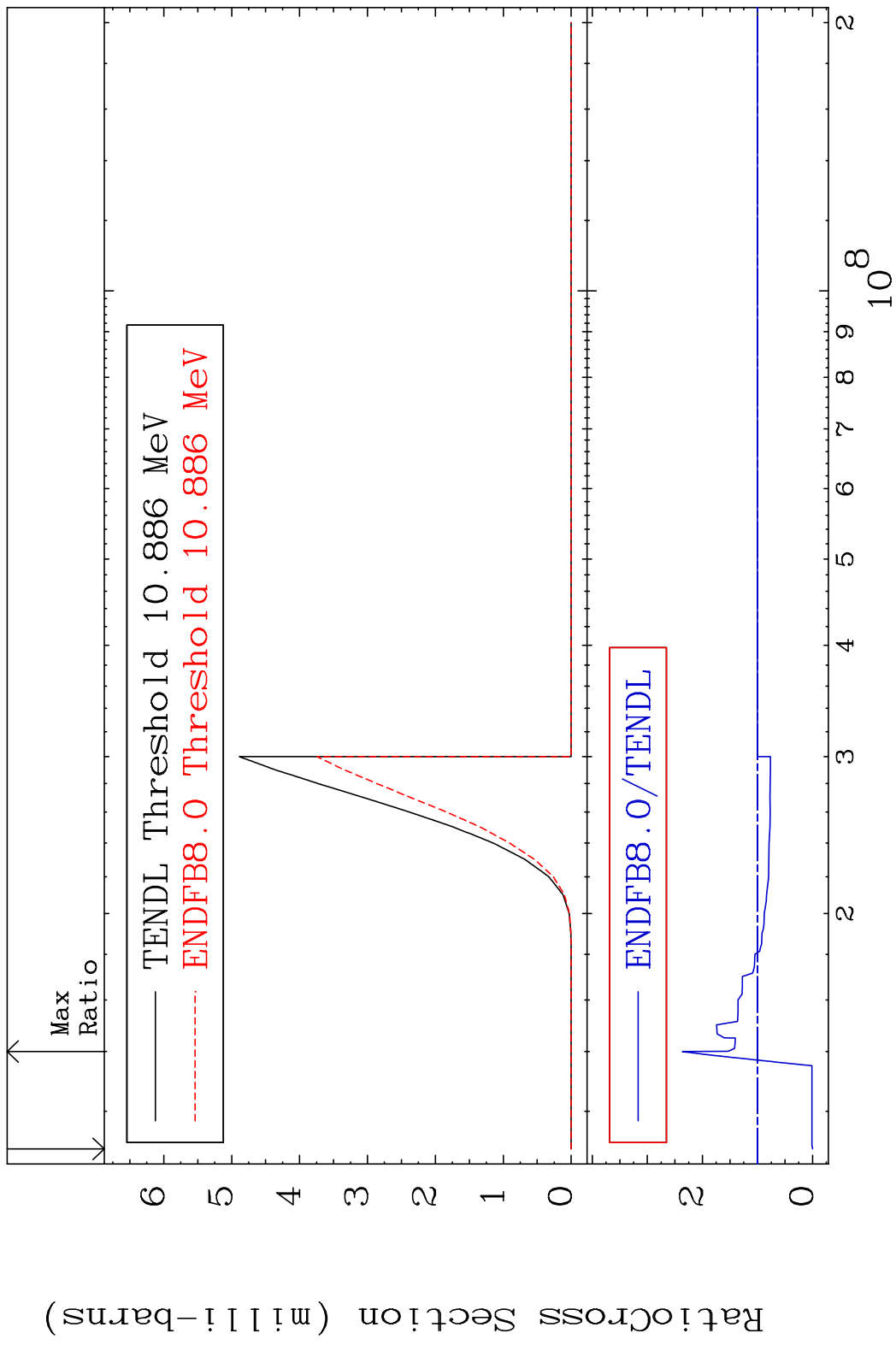


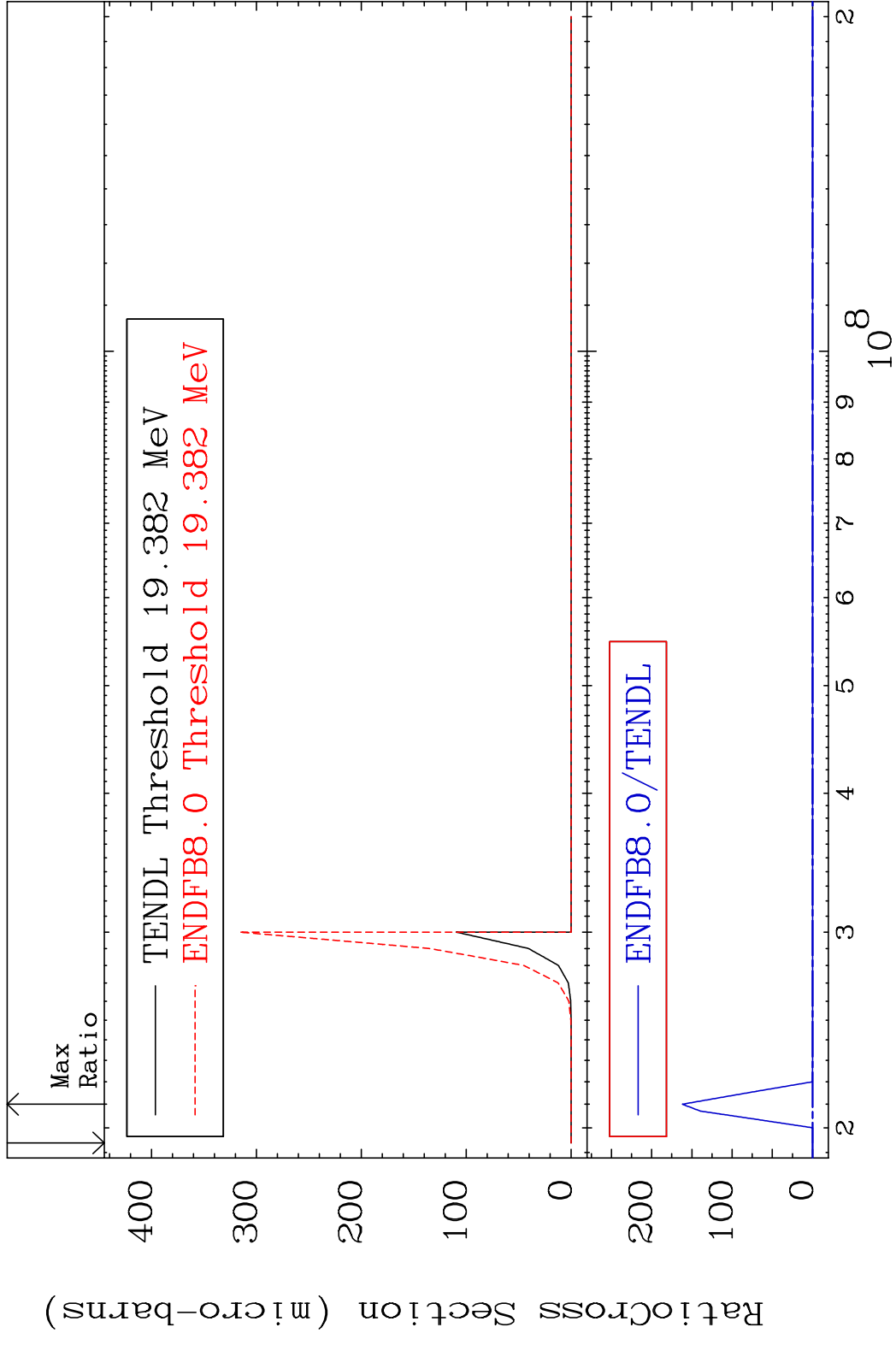


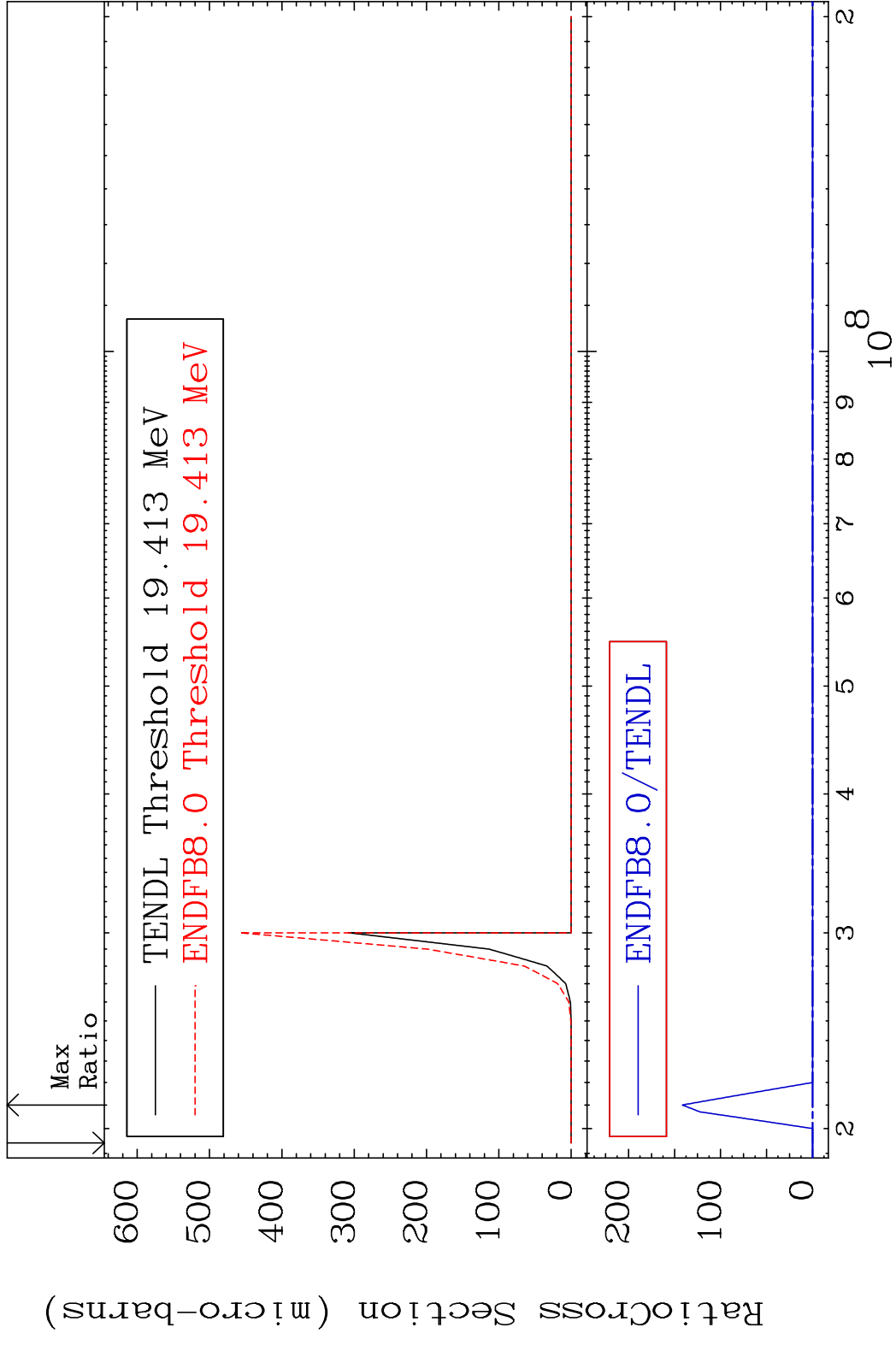
MAT 7728 (n, n') t:76-0s-189g 77-Ir-192  
 Radionuclide Production Cross Section 189.0 mb 122.3 %

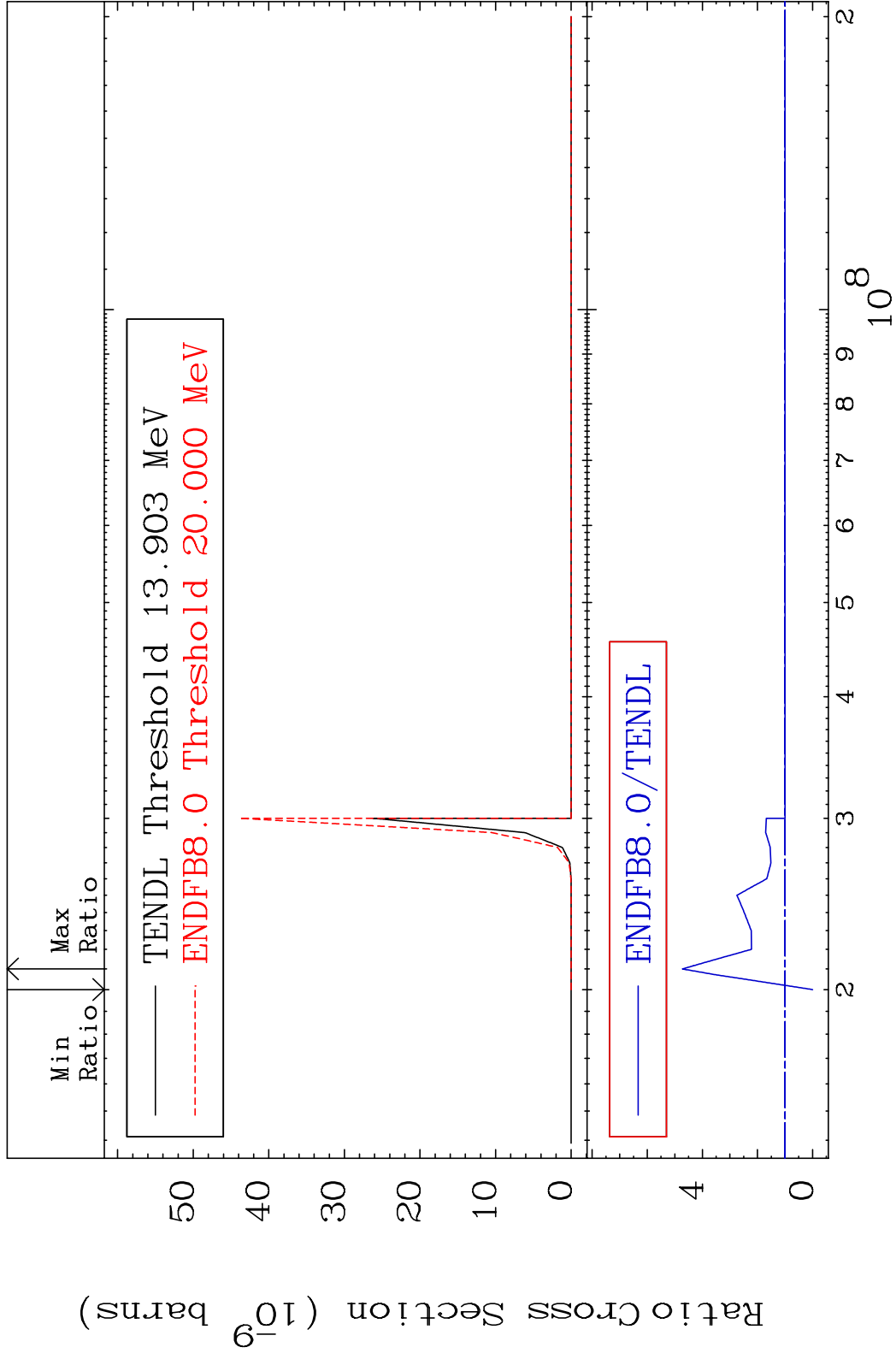


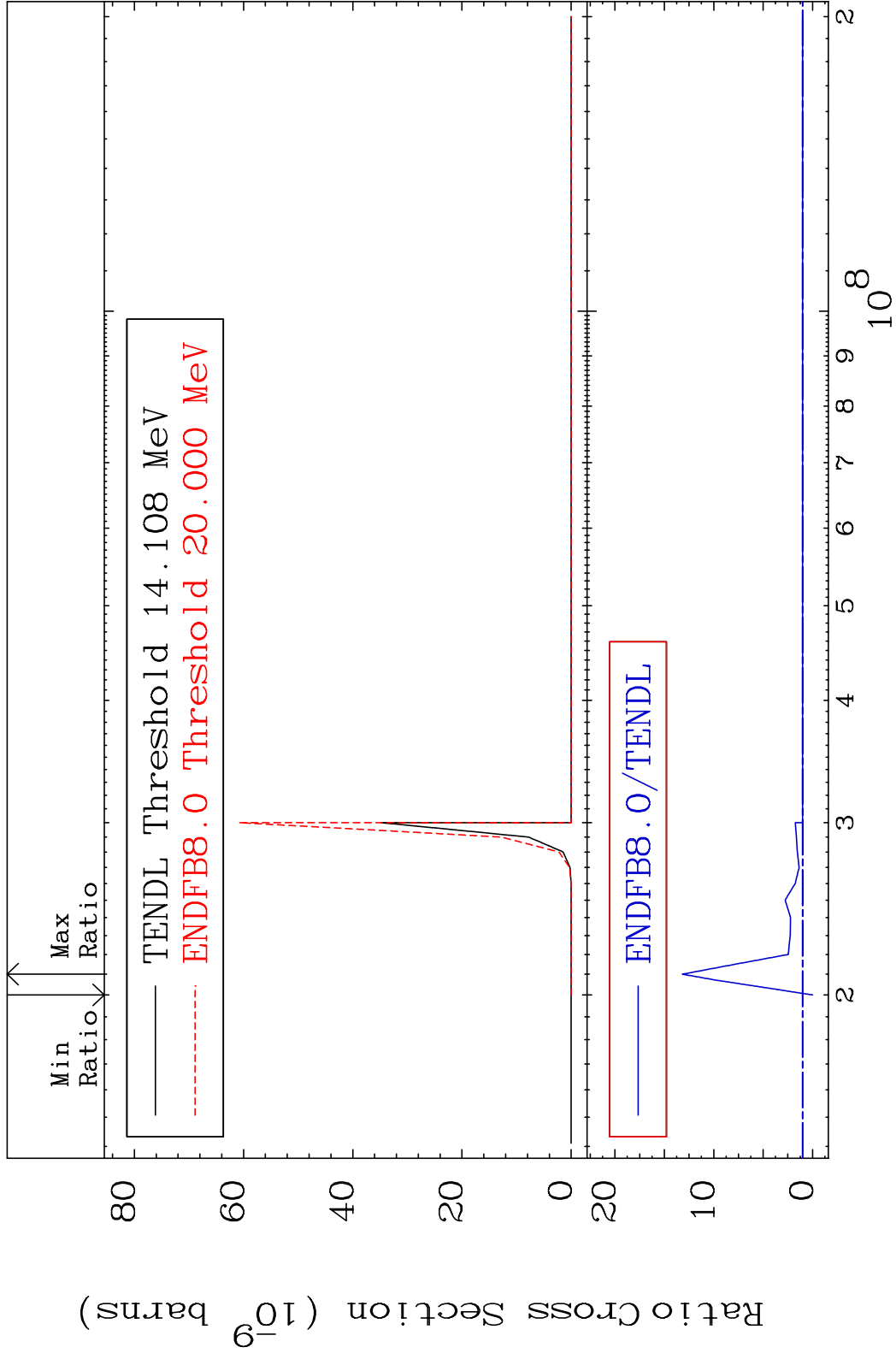
MAT 7728 (n, n') t:76-0s-189m1 77-Ir-192  
 Radionuclide Production Cross Section 136.5 %



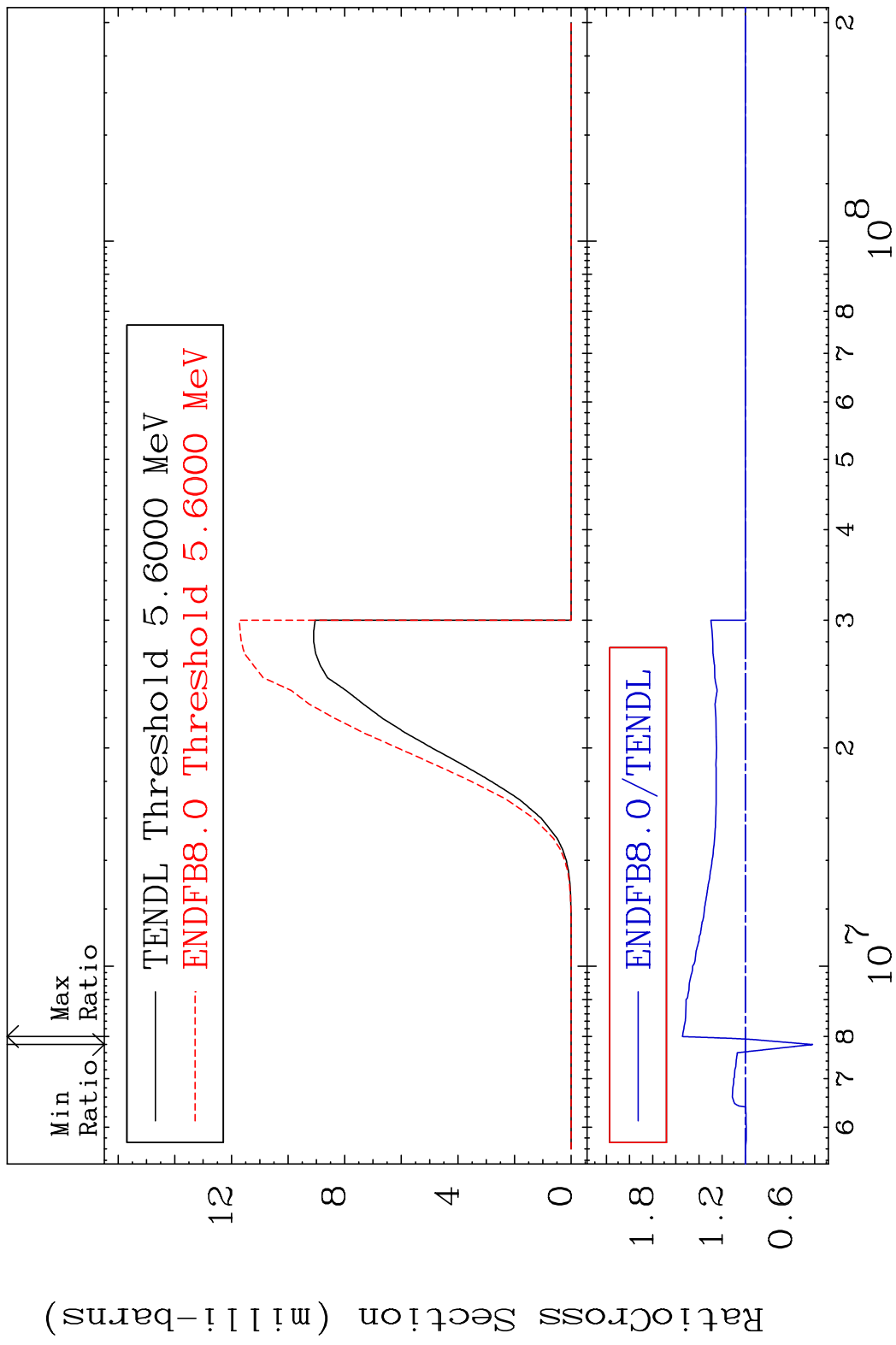








MAT 7728 (n, d): 76-0s-191g 77-Ir-192  
 Radionuclide Production Cross Section 58.20 mb 54.36 %



MAT 7728 (n, d): 76-Os-191m1 77-Ir-192  
 Radionuclide Production Cross Section 0.000 %

