

Program Complot  
(Version 2021-1)

by

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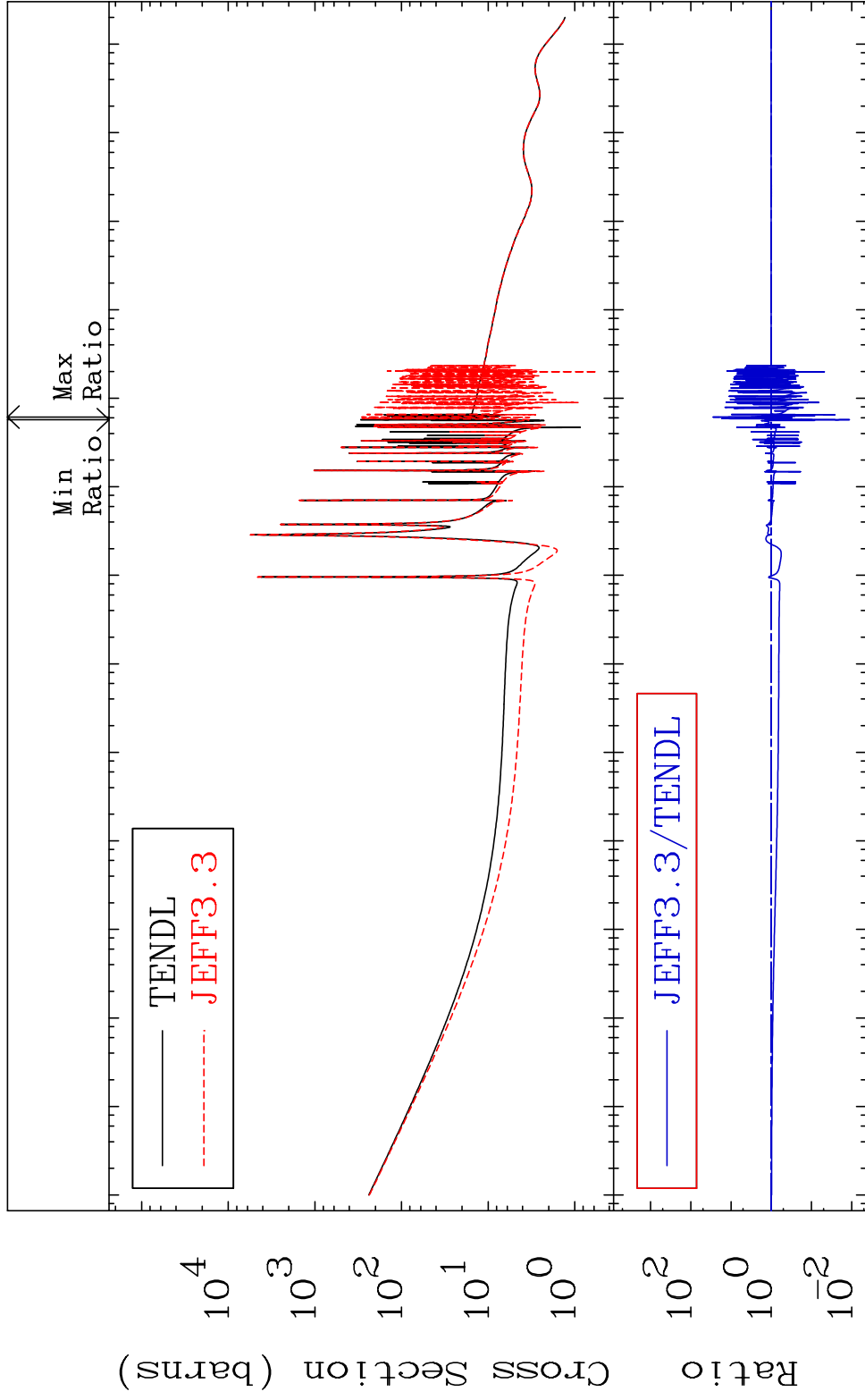
Press Mouse Button to Start

MAT 3131

Total

31-Ga-71

Cross Section -98.85 To 2674. %



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)

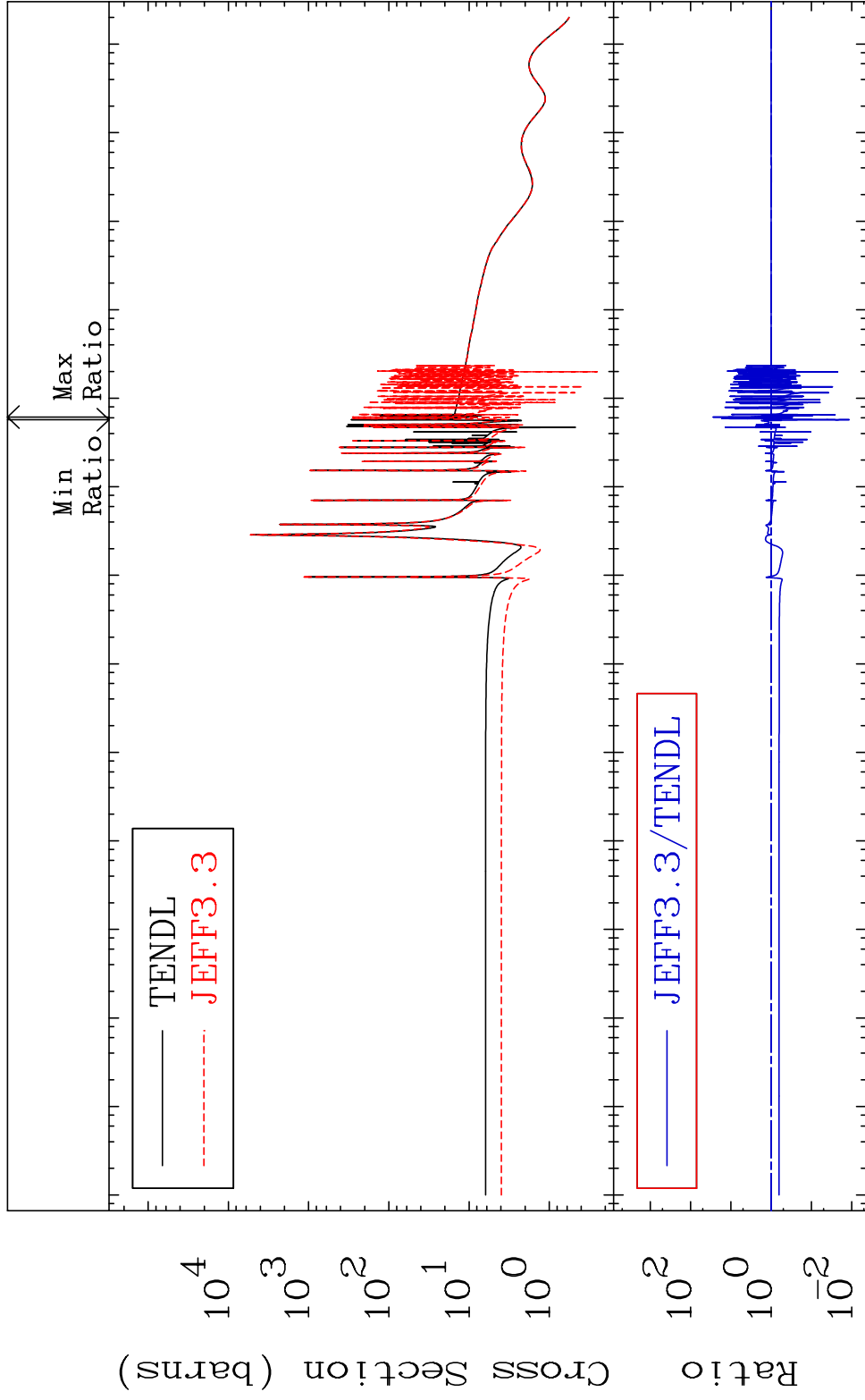
31-Ga-71

MAT 3131

Elastic

31-Ga-71

Cross Section -98.85 To 2649. %



2

Incident Energy (eV)

31-Ga-71

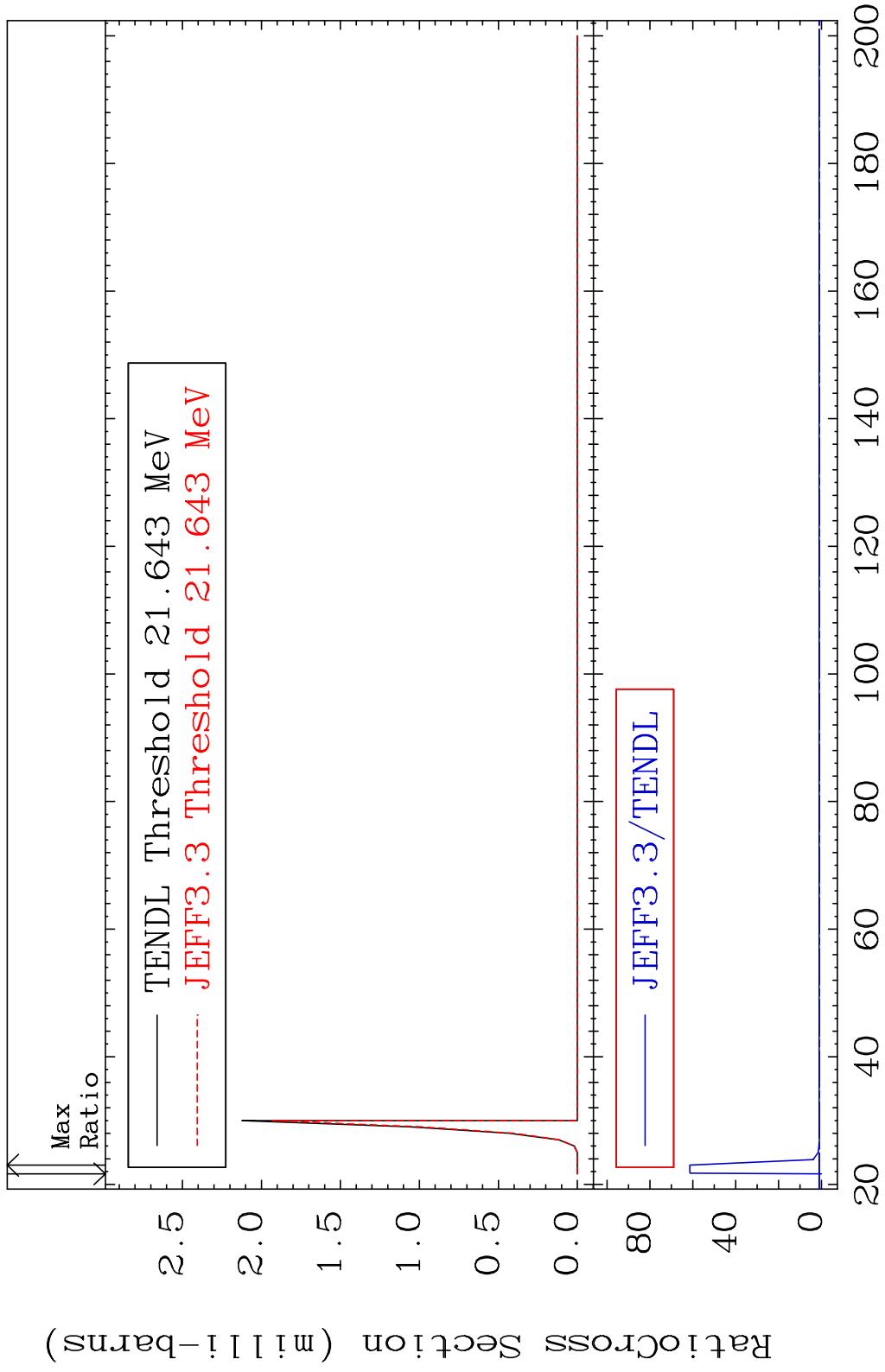


MAT 3131

(n,2n) d

31-Ga-71

Cross Section -100.0 To 6042. %



4

Incident Energy (MeV)

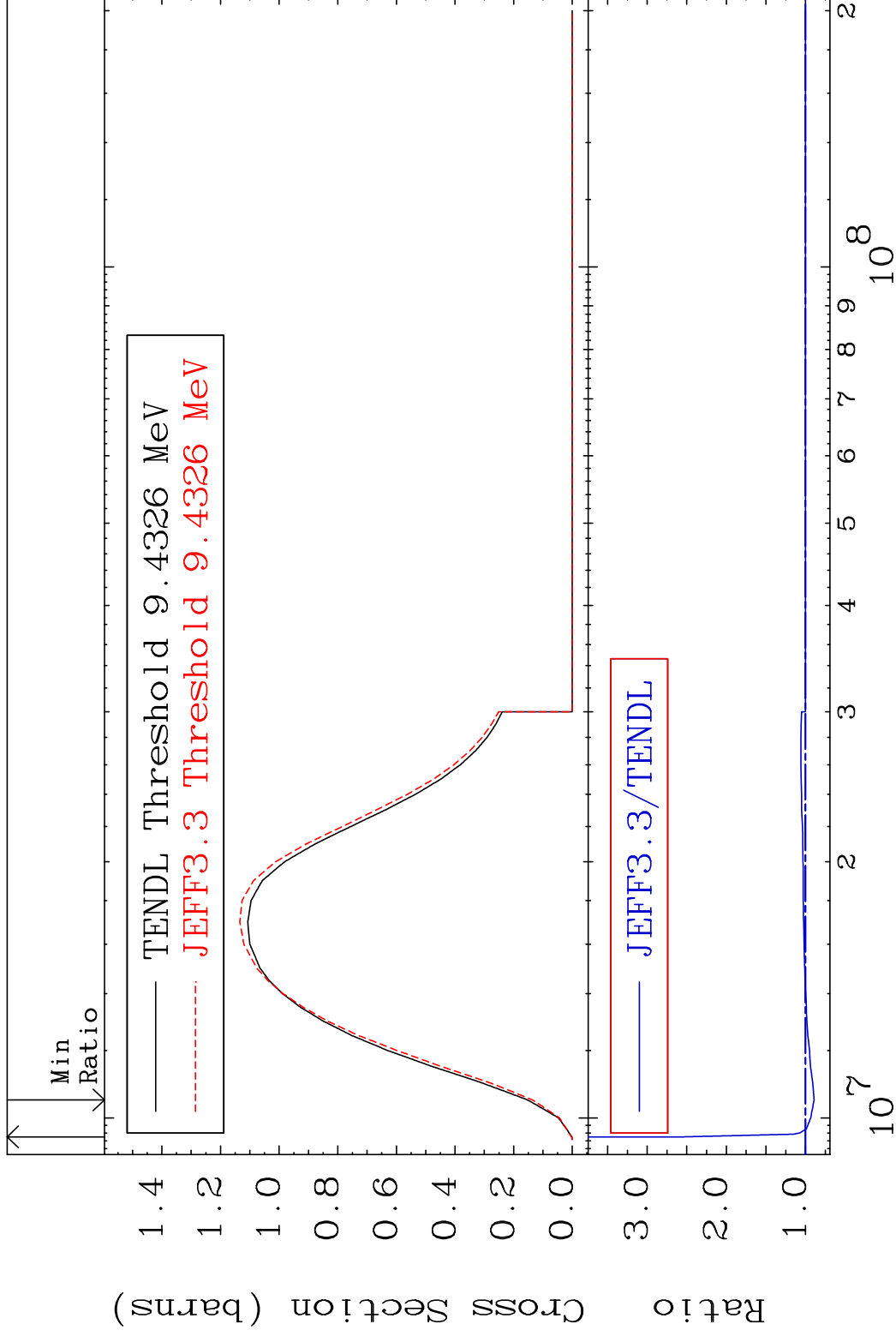
31-Ga-71

MAT 3131

(n,2n)

31-Ga-71

Cross Section -10.85 To 153.9 %



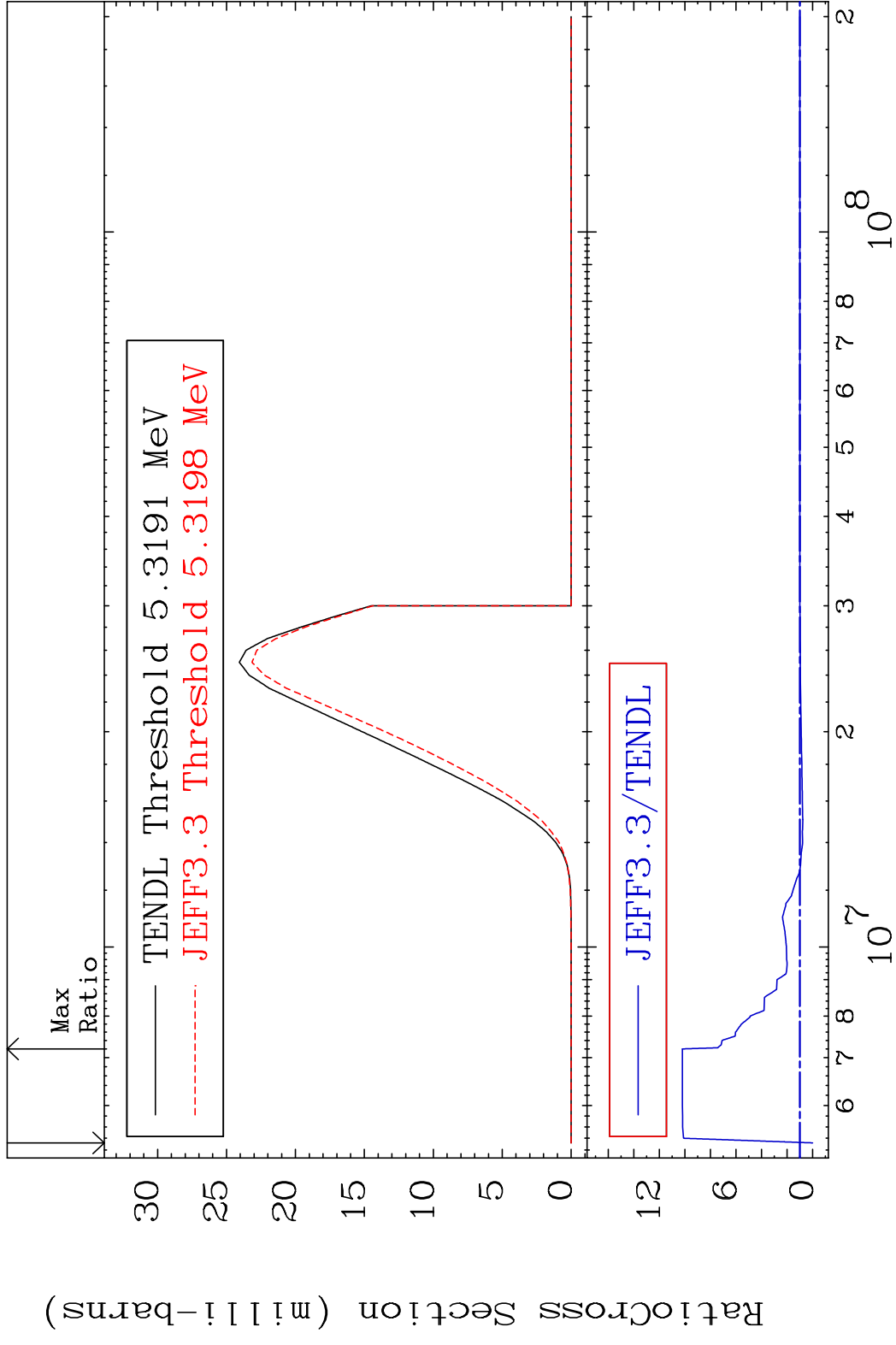
5

Incident Energy (eV)

31-Ga-71



MAT 3131 (n, n')  $\alpha$  31-Ga-71  
 Cross Section -100.0 To 919.9 %

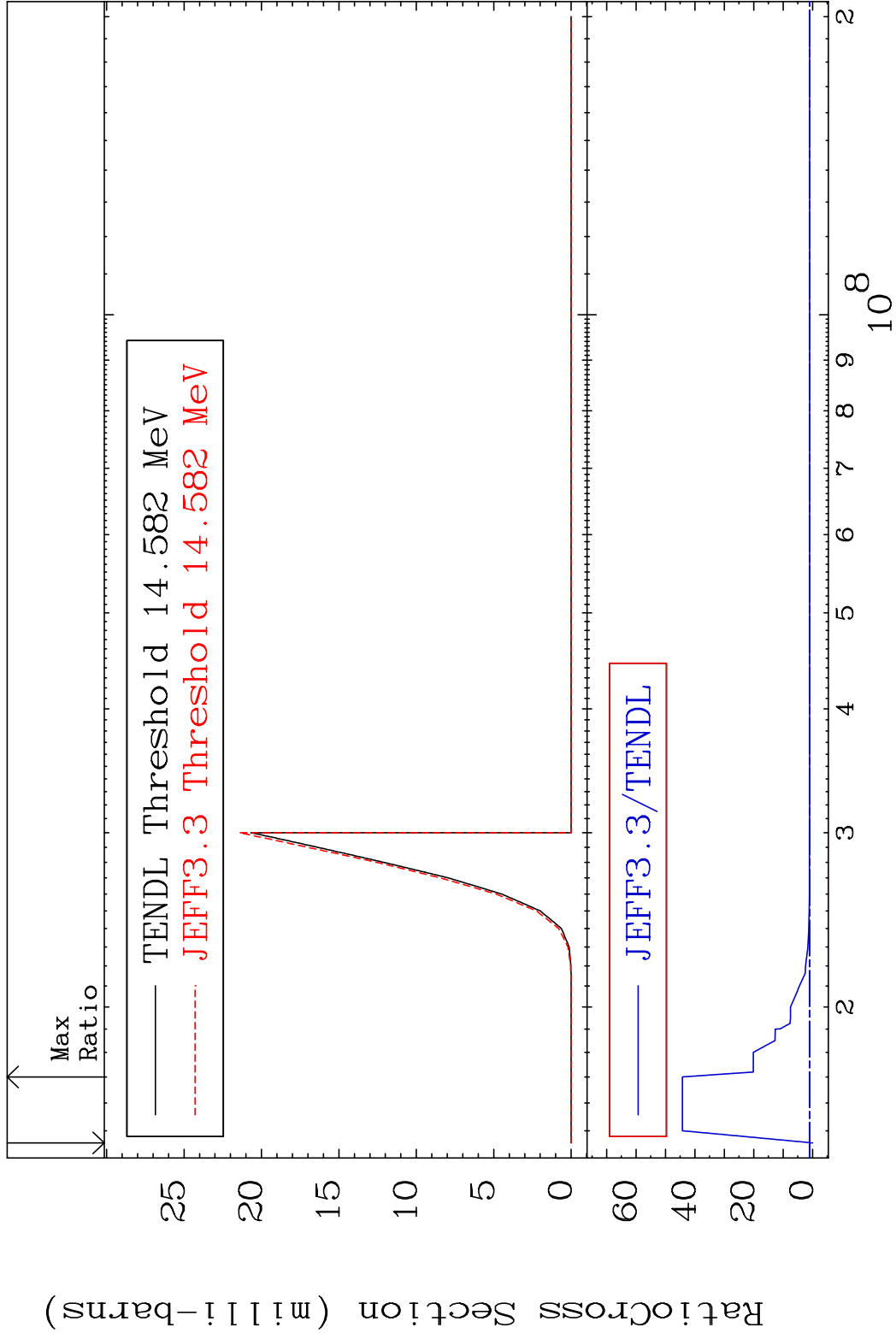


7 31-Ga-71

MAT 3131

(n,2n)  $\alpha$  31-Ga-71

Cross Section -100.0 To 4327. %



8

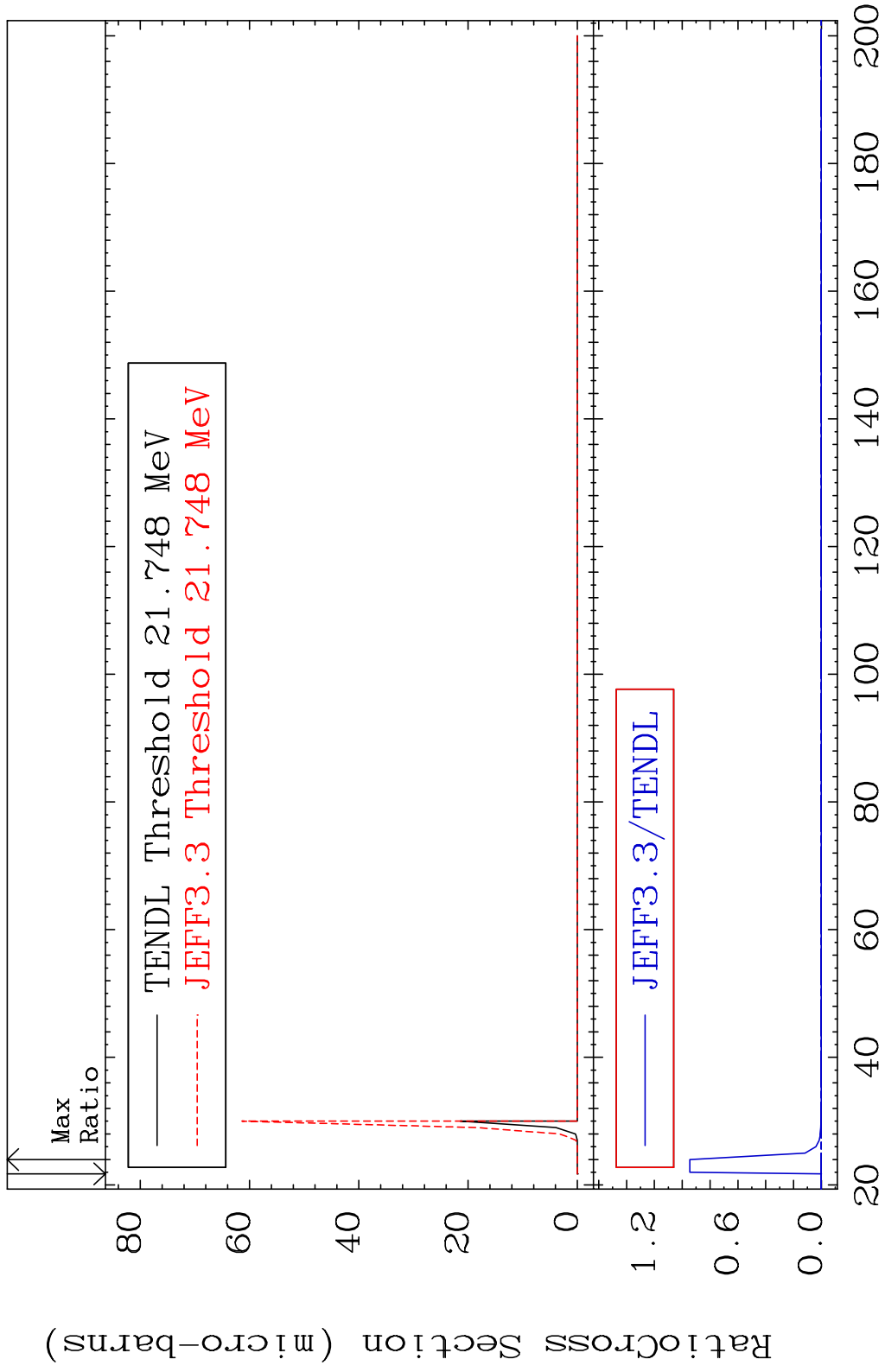
Incident Energy (eV) 31-Ga-71

MAT 3131

(n,3n)  $\alpha$

31-Ga-71

Cross Section -100.0 To 9999. %

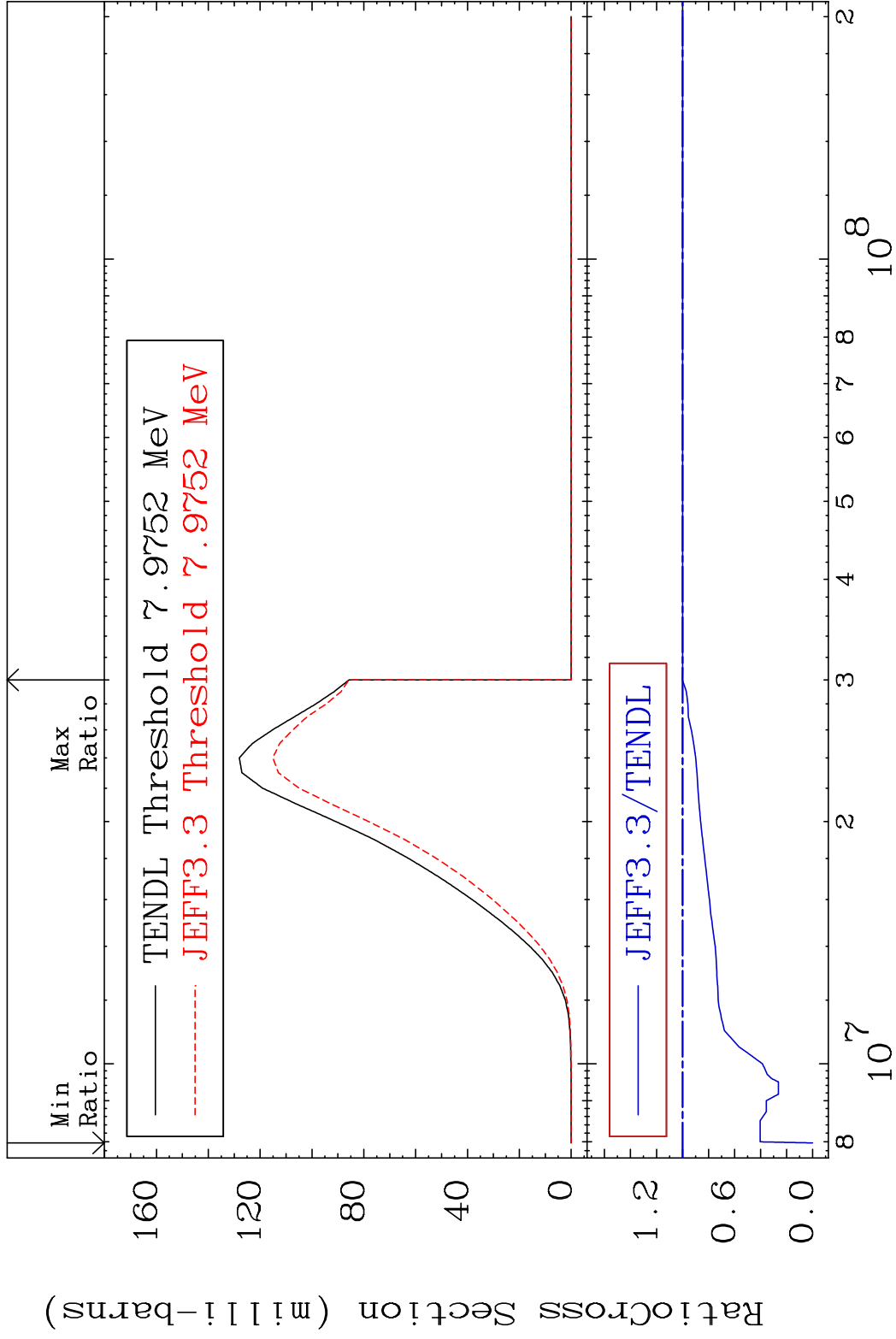


MAT 3131

31-Ga-71

(n, n') p

Cross Section -100.0 To 0.125 %



10

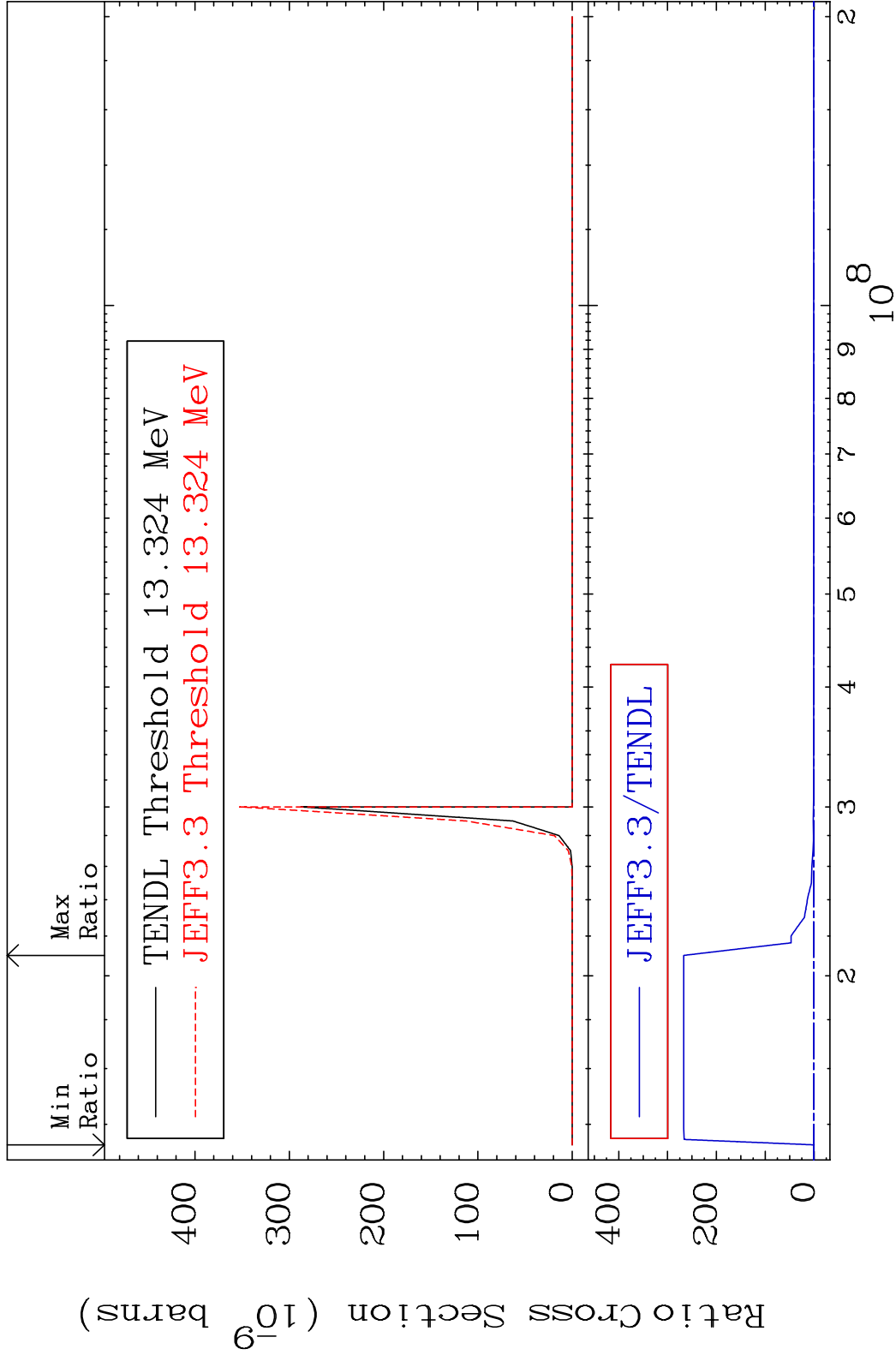
Incident Energy (eV)

31-Ga-71

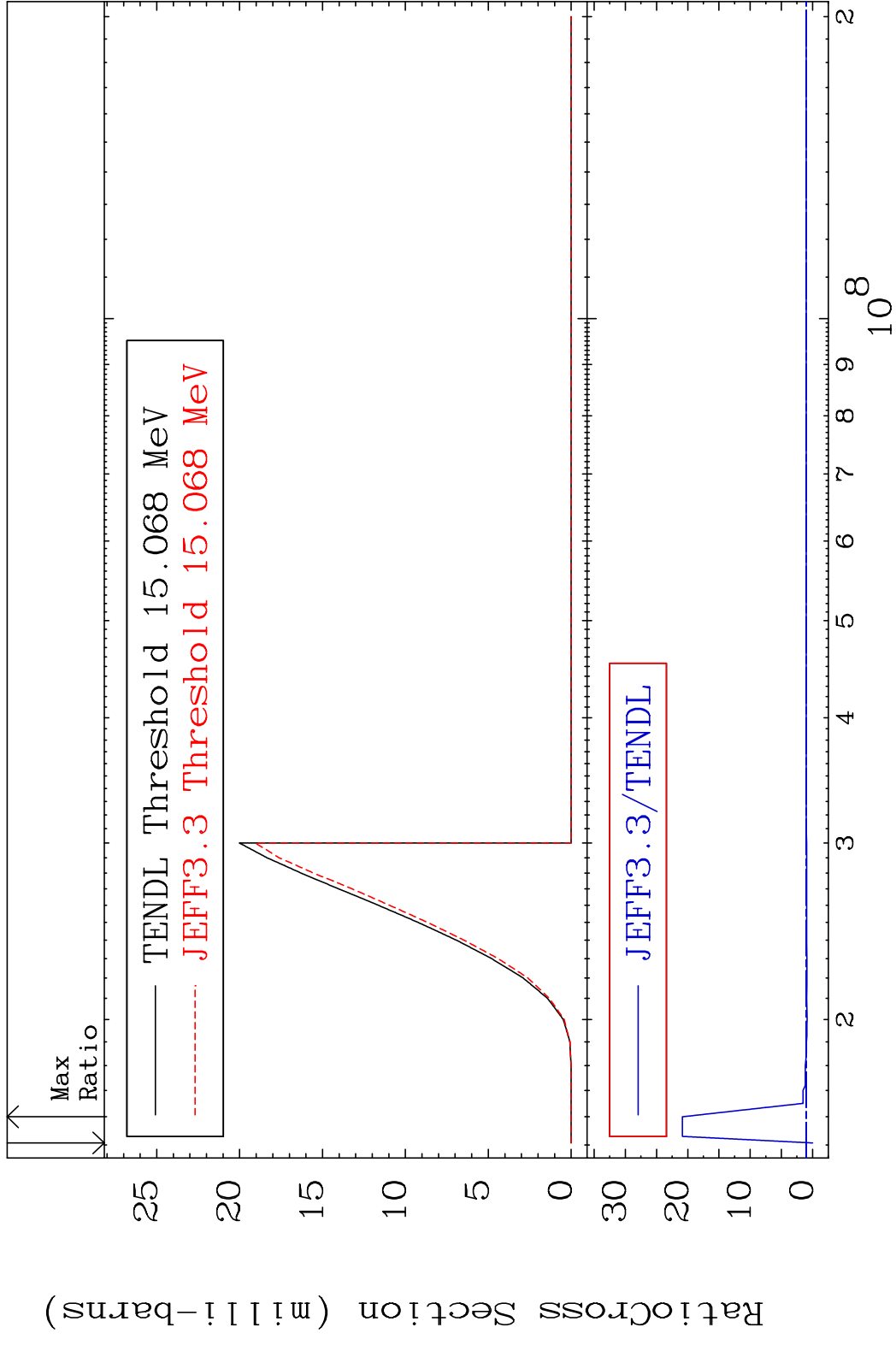
MAT 3131

(n, n') 2 $\alpha$  31-Ga-71

Cross Section -100.0 To 9999. %



MAT 3131 (n, n') d 31-Ga-71  
 Cross Section -100.0 To 1987. %

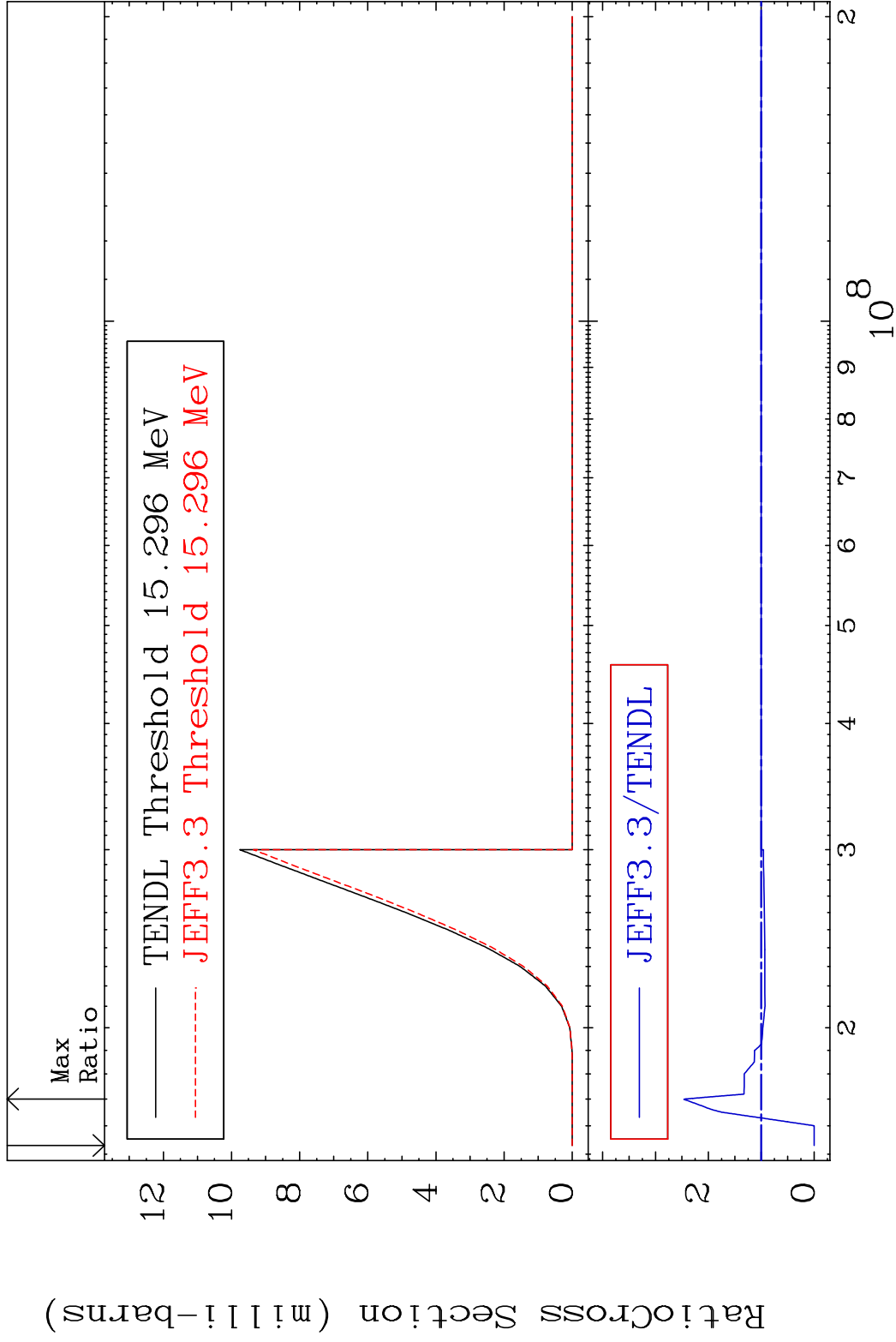


MAT 3131

(n, n') t

31-Ga-71

Cross Section -100.0 To 146.8 %

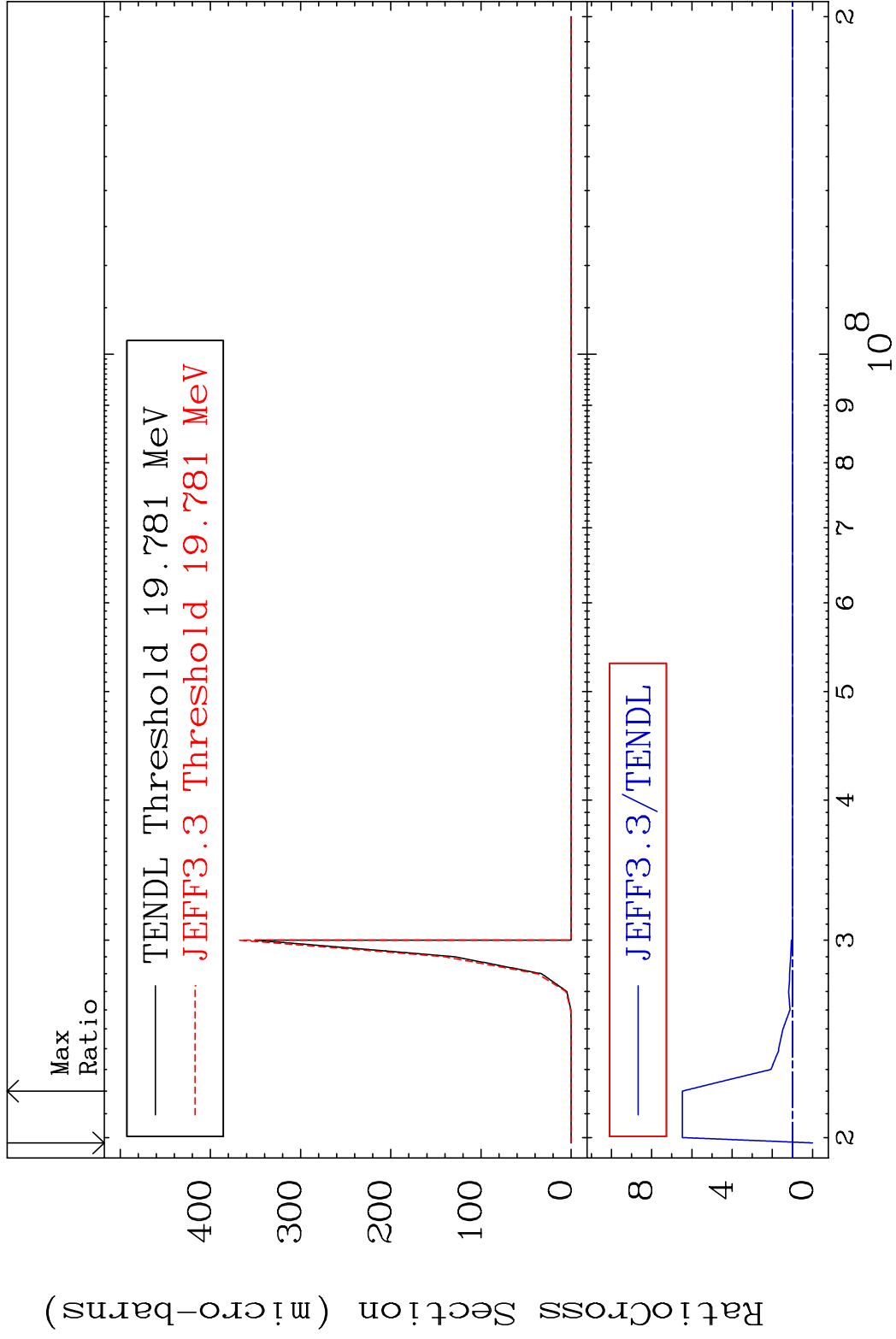


MAT 3131

(n,n') He-3

31-Ga-71

Cross Section -100.0 To 547.3 %

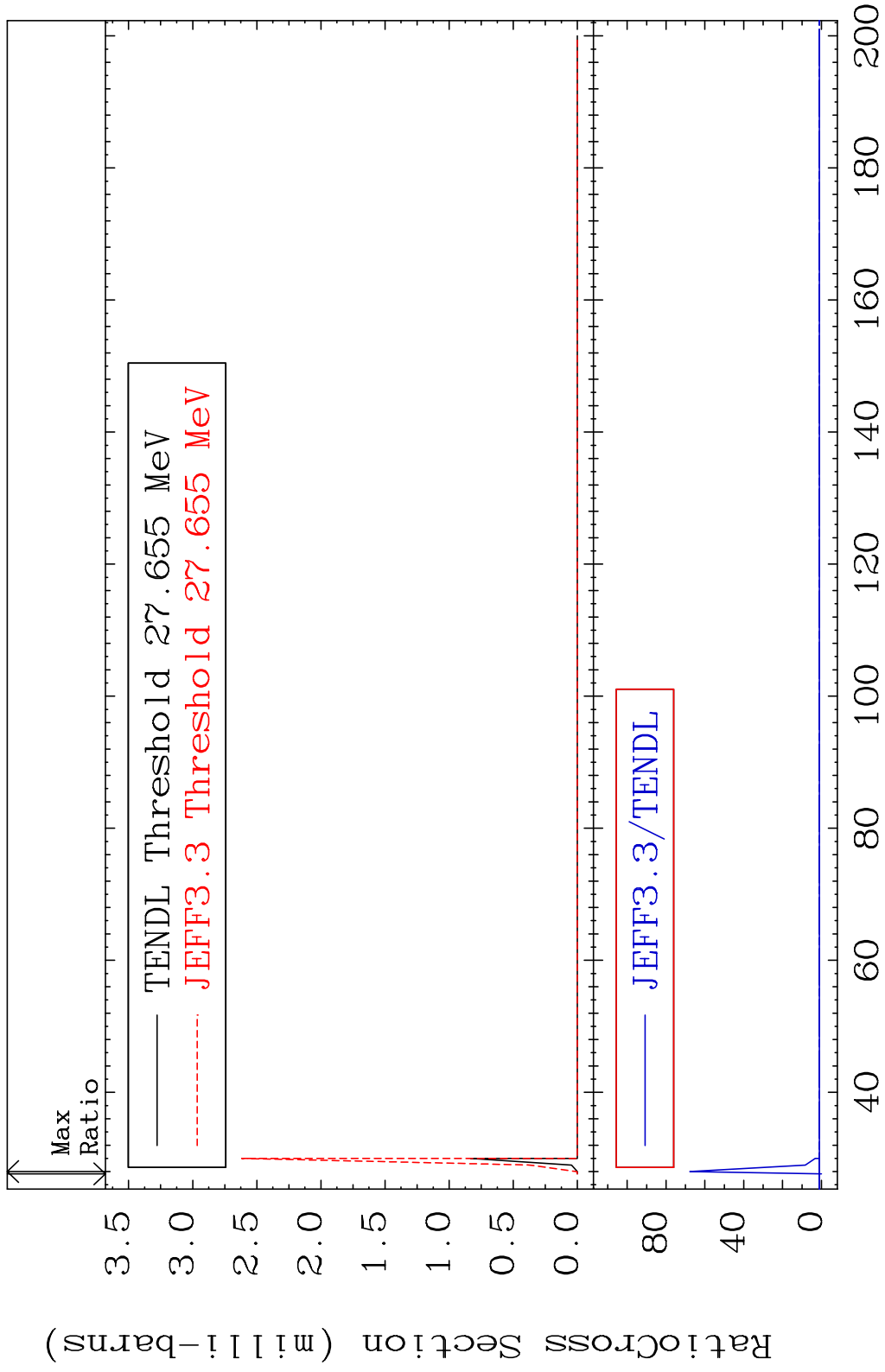


MAT 3131

(n,4n)

31-Ga-71

Cross Section -100.0 To 6677. %

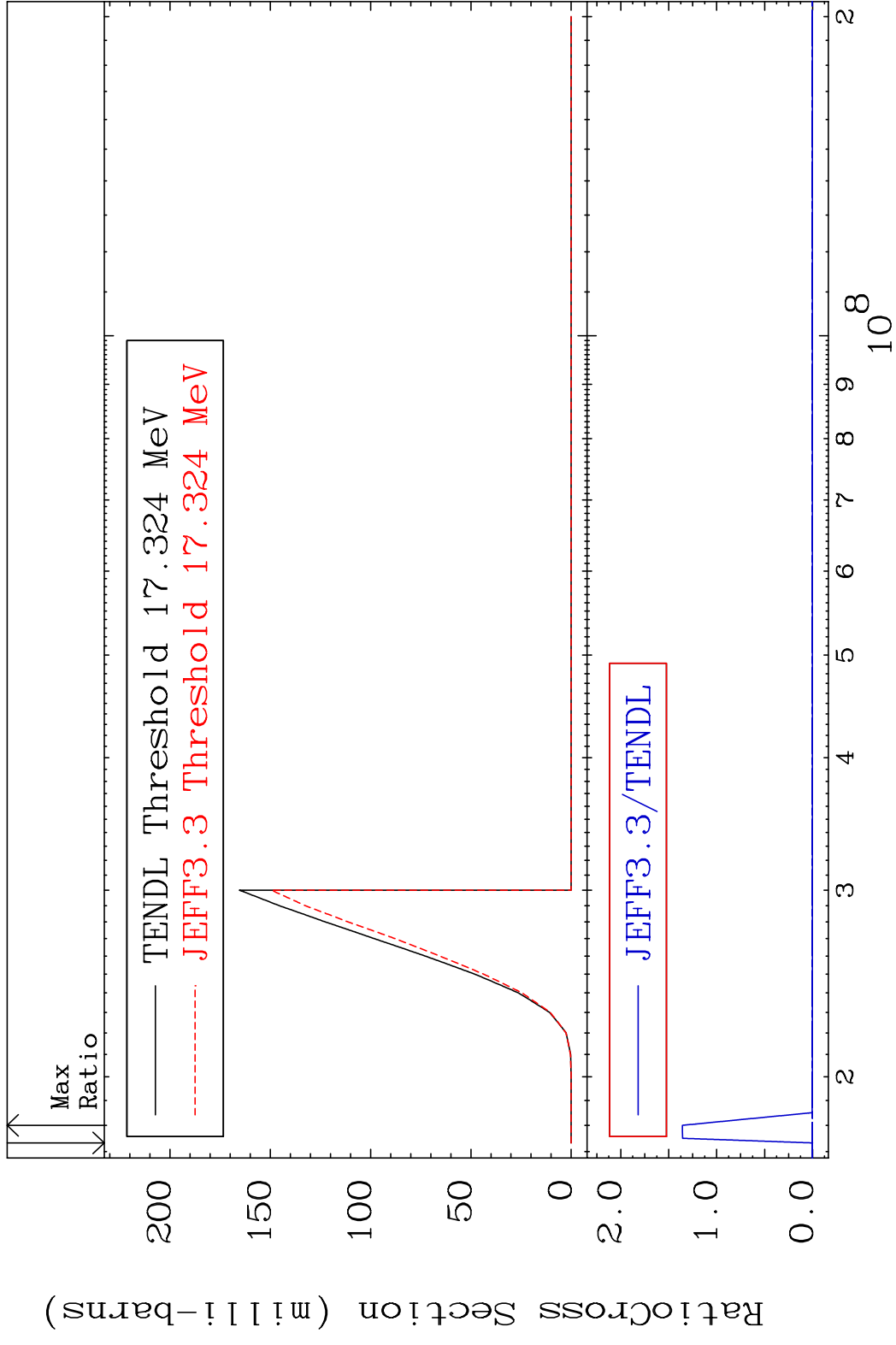


15

Incident Energy (MeV)

31-Ga-71

MAT 3131 (n,2n) p 31-Ga-71  
 Cross Section -100.0 To 9999. %

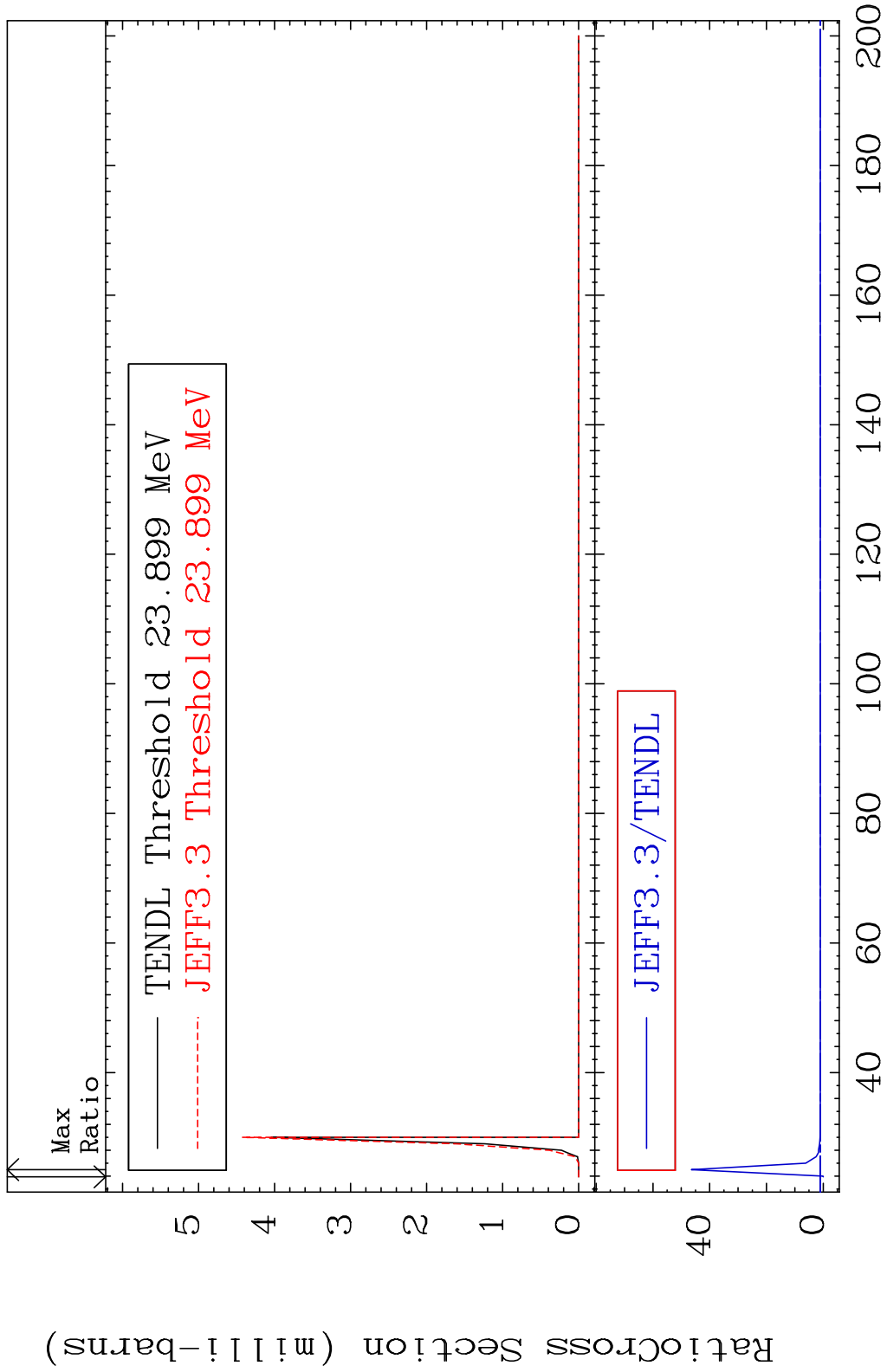


MAT 3131

(n,3n) p

31-Ga-71

Cross Section -100.0 To 4547. %

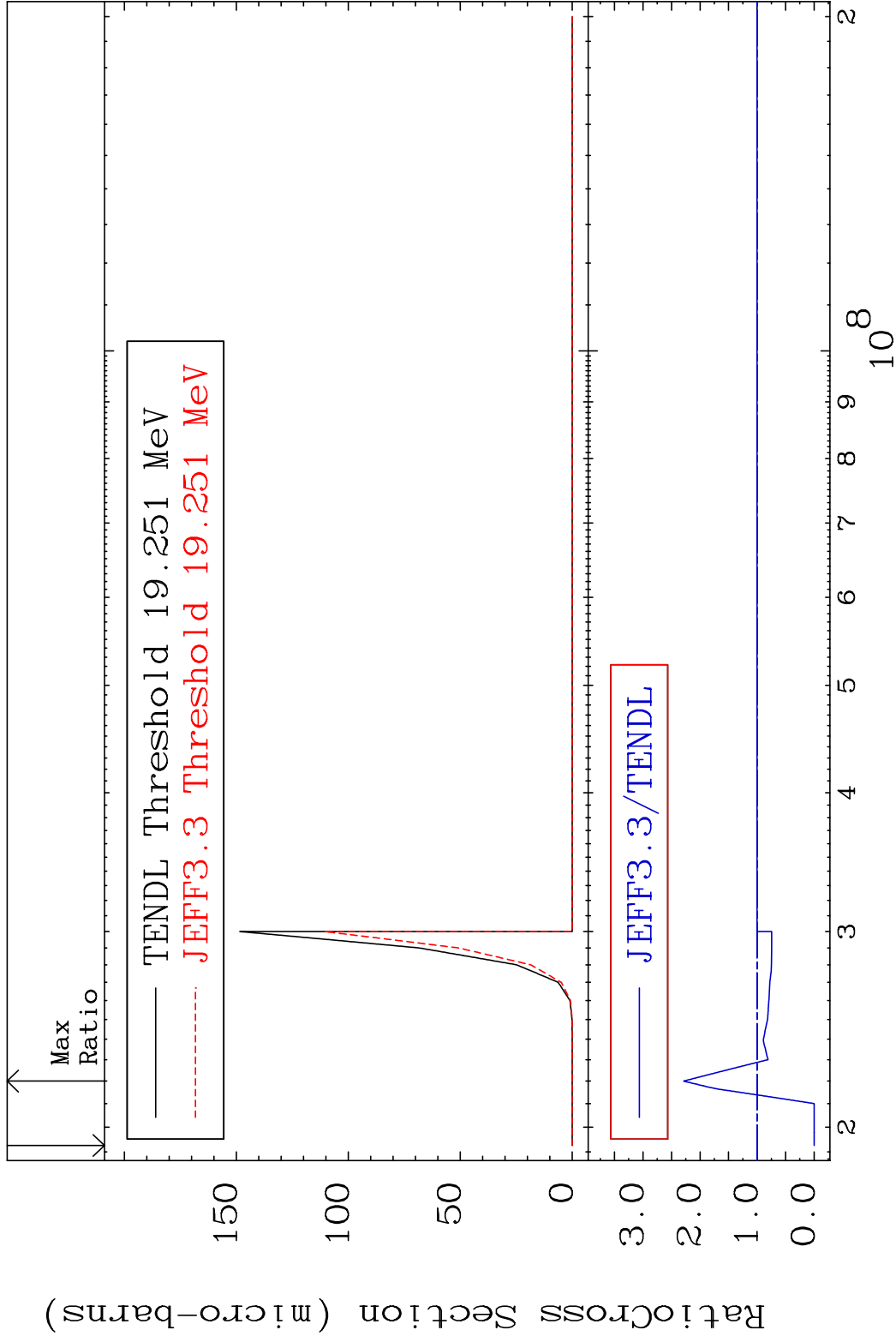


MAT 3131

(n,2n) p

31-Ga-71

Cross Section -100.0 To 128.7 %



18

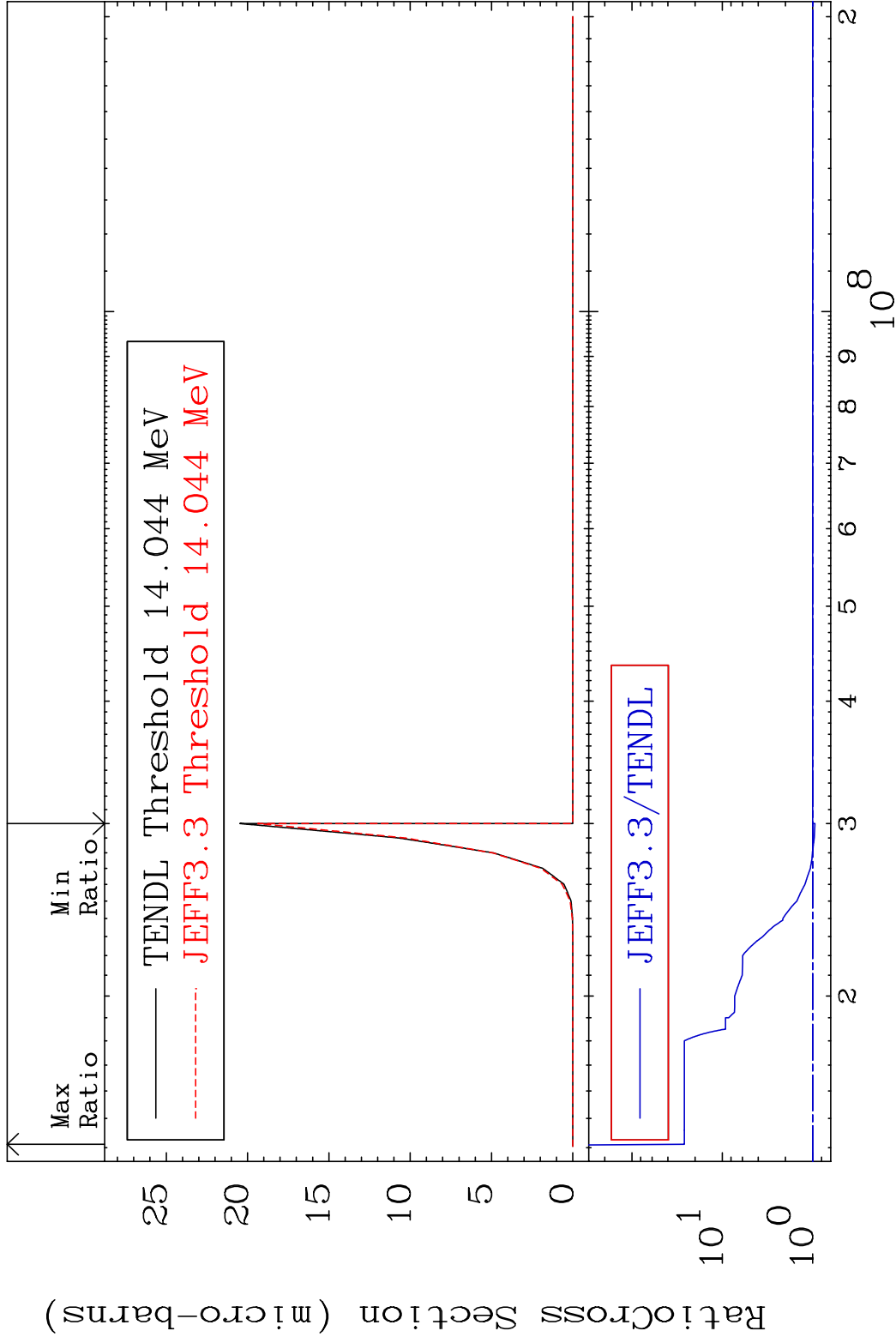
Incident Energy (eV)

31-Ga-71

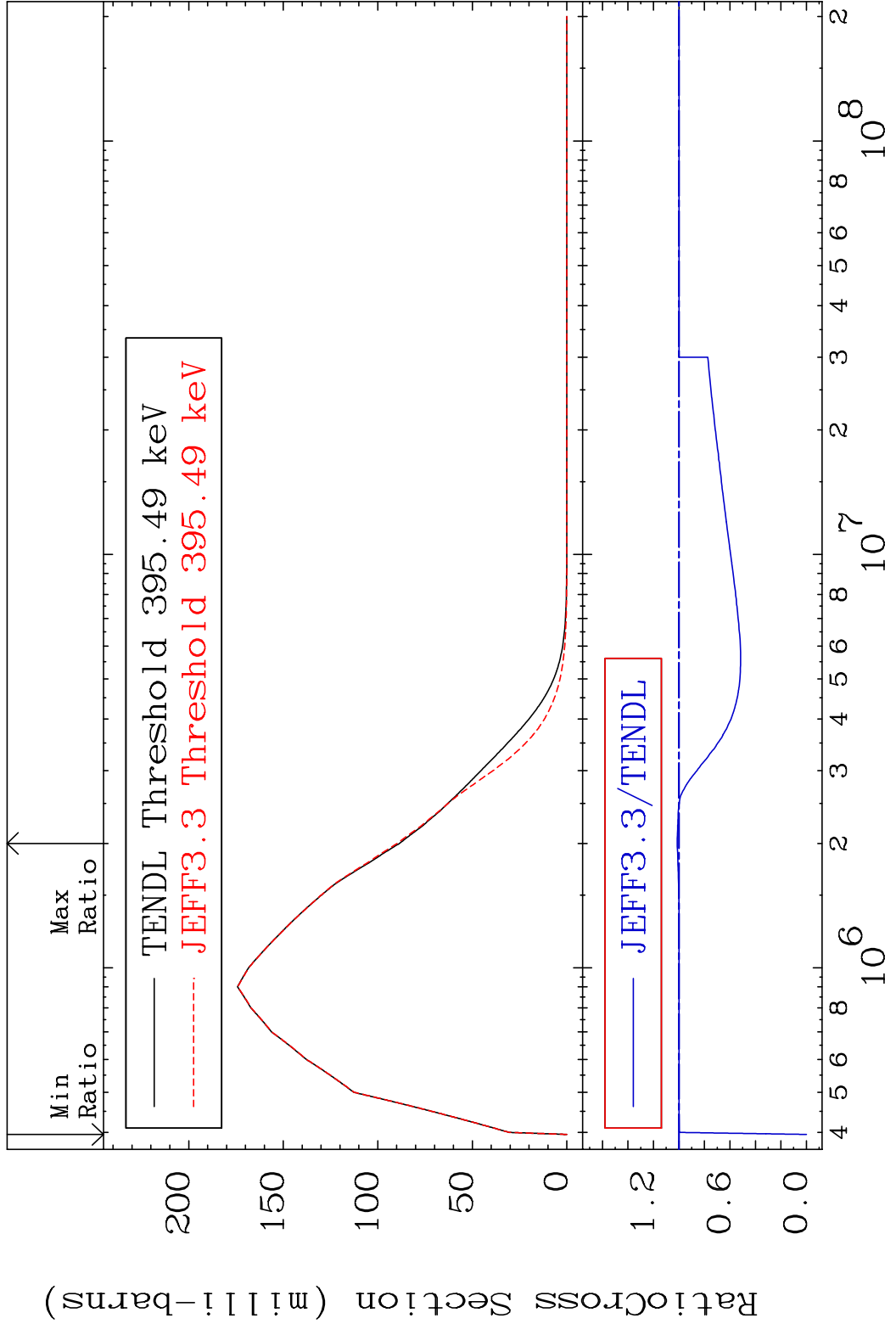
MAT 3131

(n,n') p  $\alpha$  31-Ga-71

Cross Section -5.367 To 2534. %

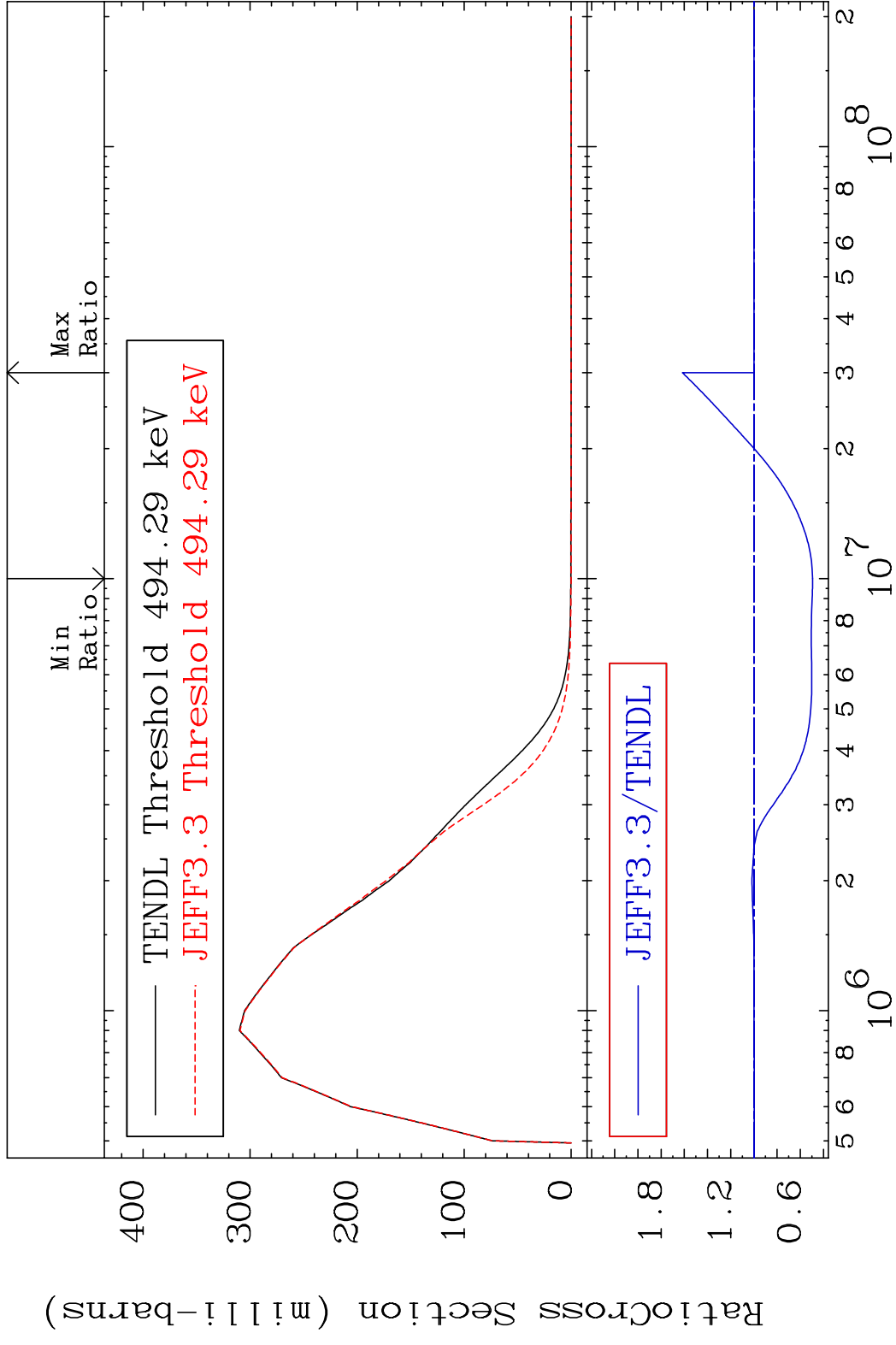


MAT 3131 MT= 51 (n, n') Level 31-Ga-71  
 Cross Section -100.0 To 1.375 %

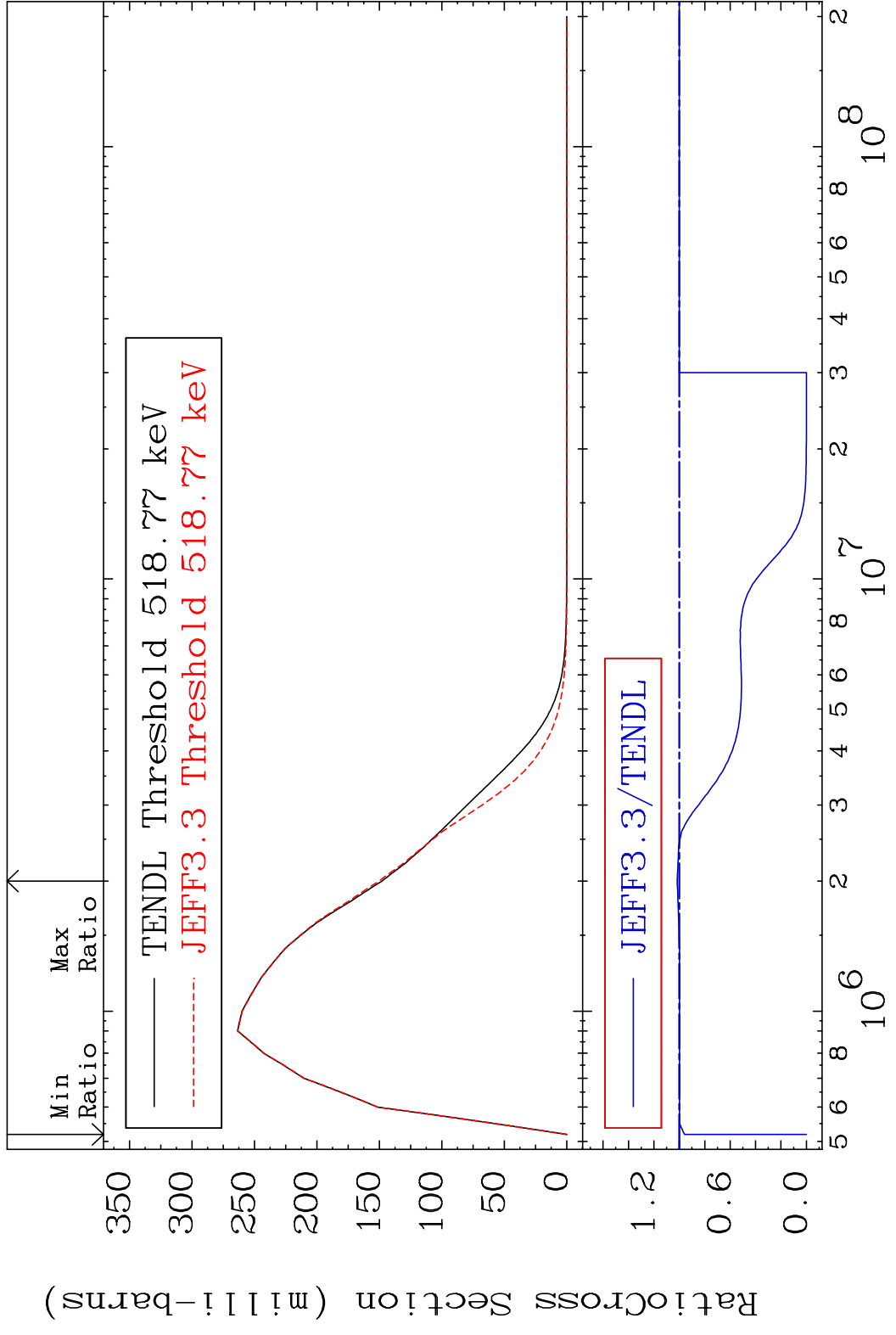


20 Incident Energy (eV) 31-Ga-71

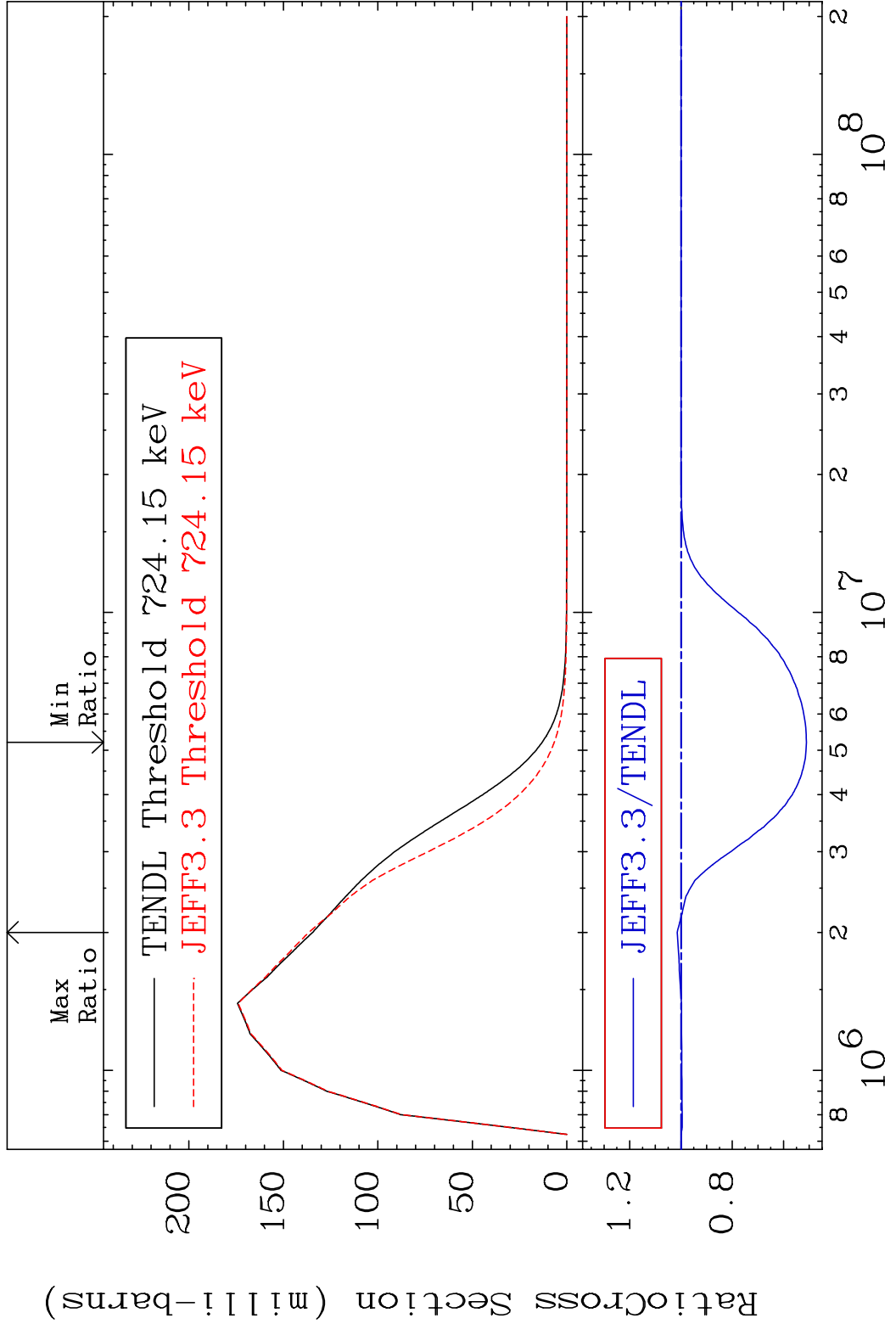
MAT 3131 MT= 52 (n, n') Level 31-Ga-71  
 Cross Section -50.56 To 61.69 %



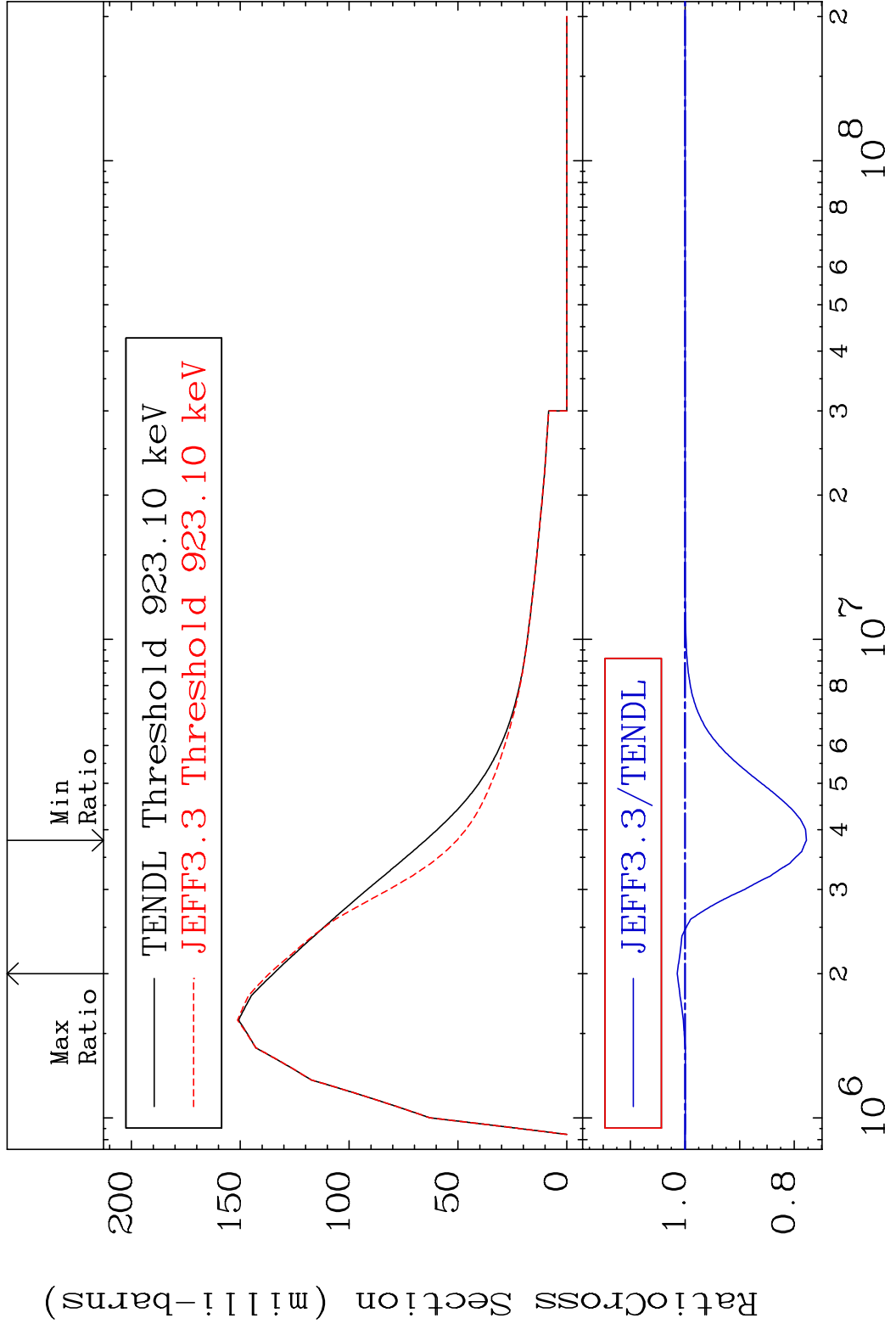
MAT 3131 MT= 53 (n, n') Level 31-Ga-71  
 Cross Section -100.0 To 1.663 %



MAT 3131 MT= 54 (n, n') Level 31-Ga-71  
 Cross Section -48.89 To 1.493 %

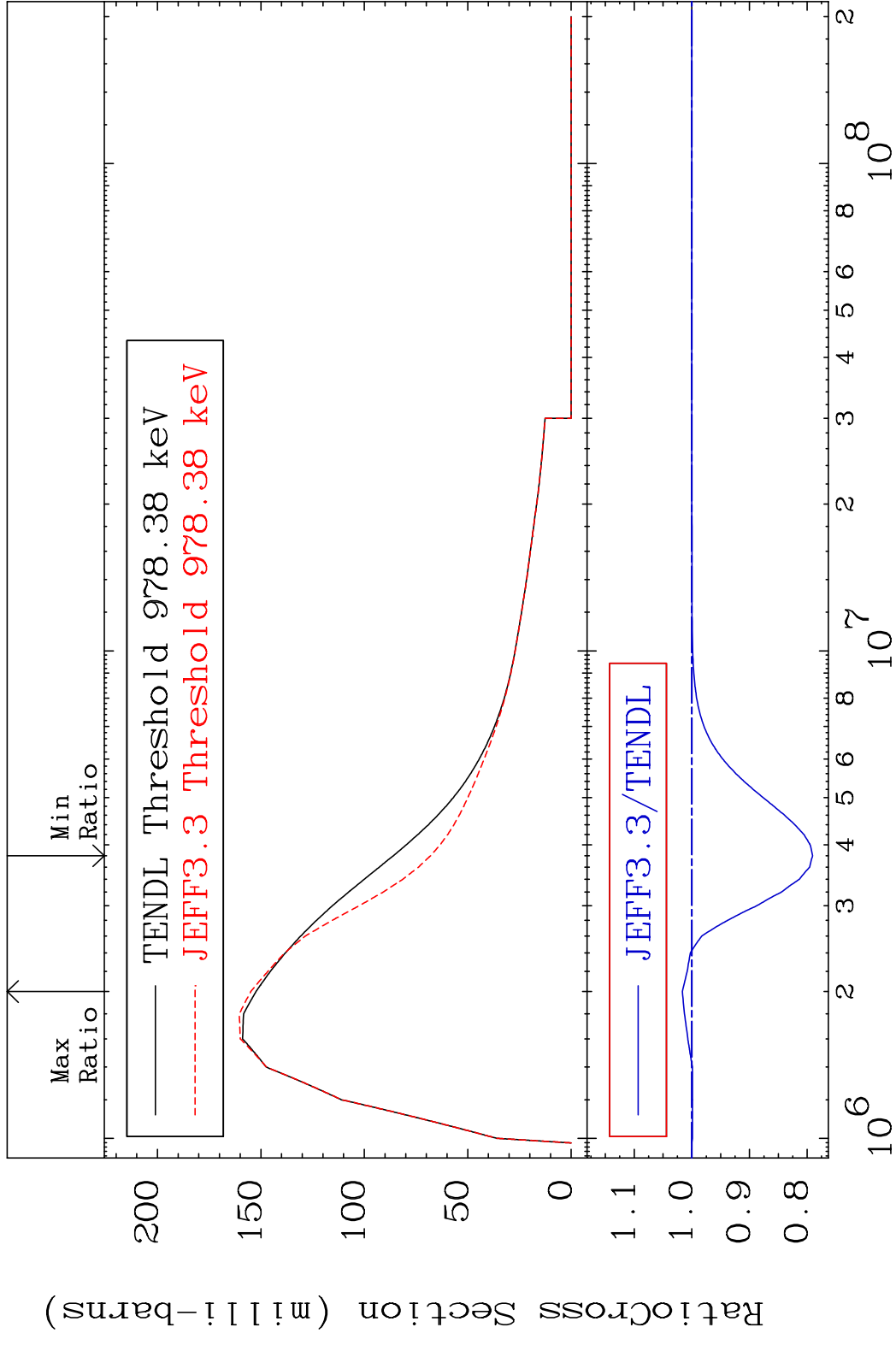


MAT 3131 MT= 55 (n, n') Level 31-Ga-71  
 Cross Section -22.22 To 1.441 %



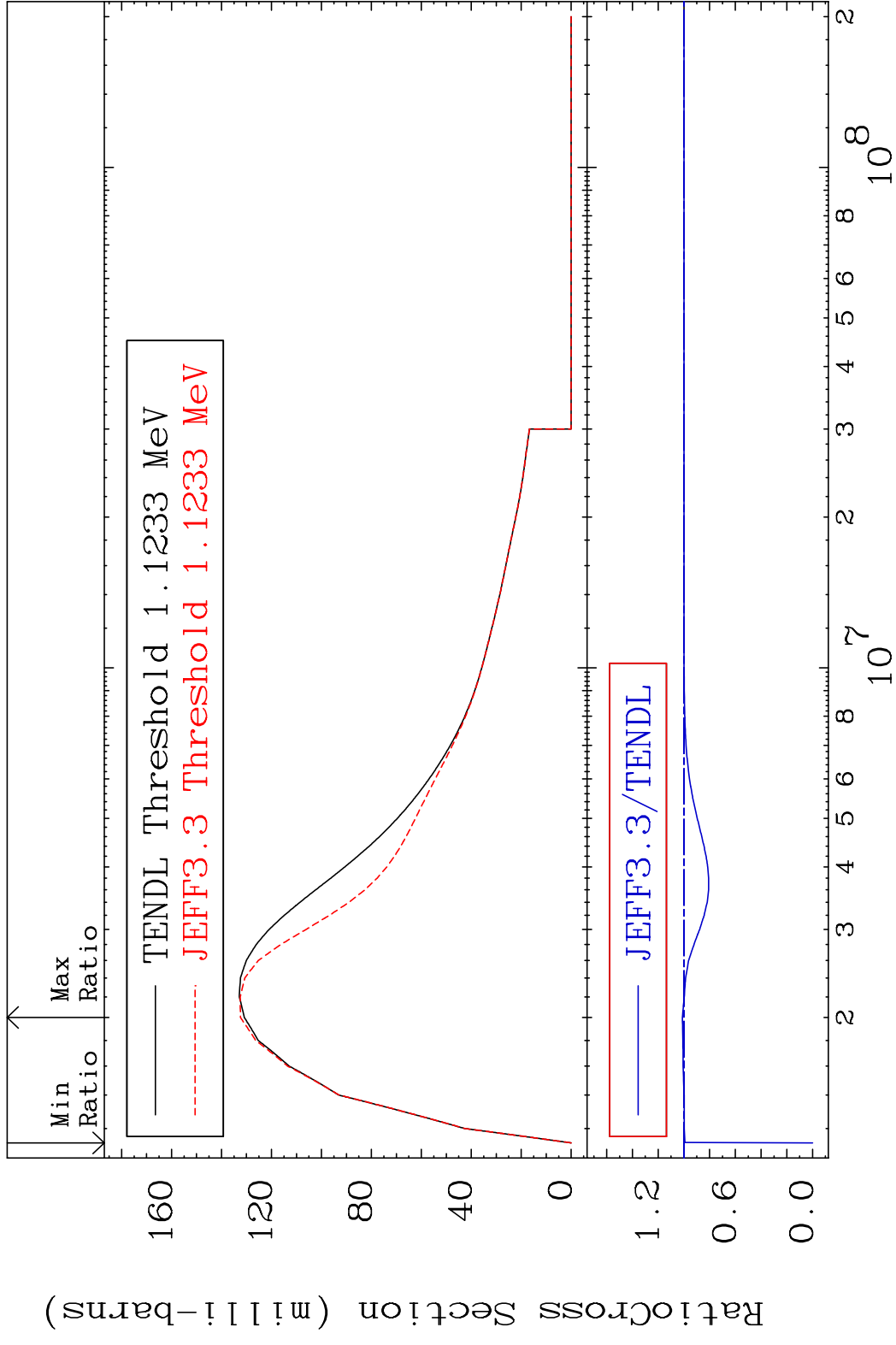
24 31-Ga-71

MAT 3131 MT= 56 (n,n') Level 31-Ga-71  
 Cross Section -20.94 To 1.647 %

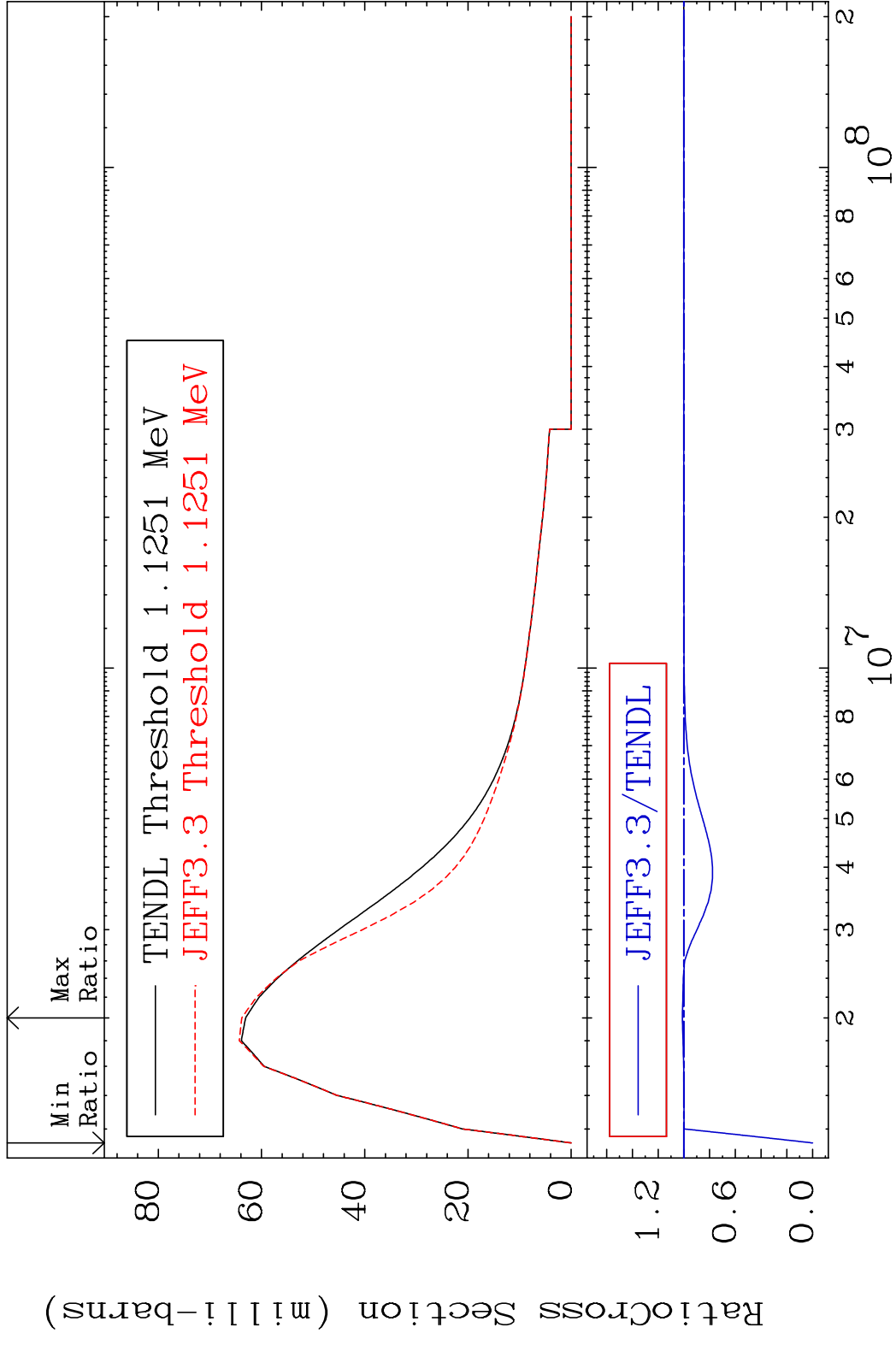


25 31-Ga-71

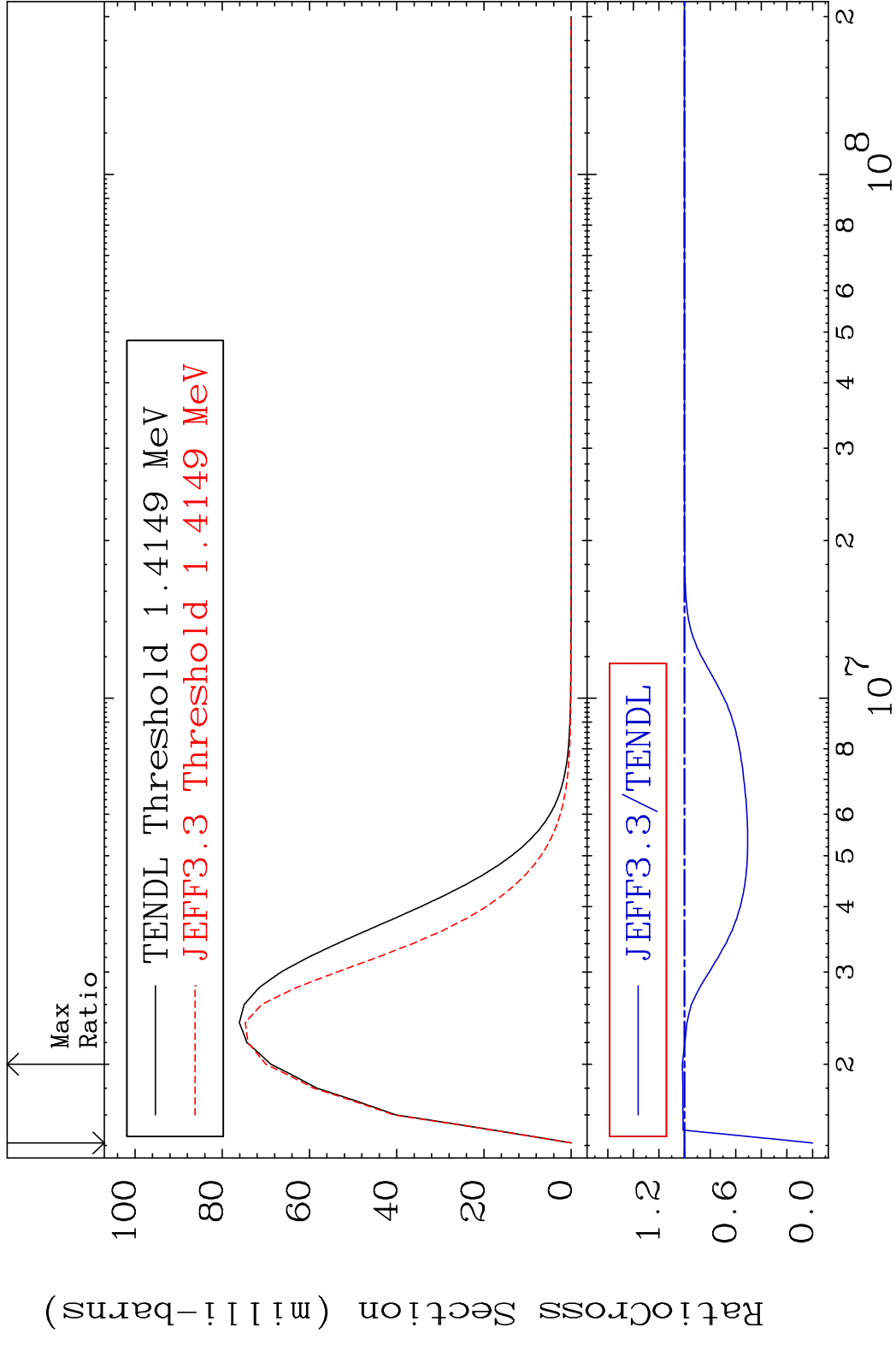
MAT 3131 MT= 57 (n,n') Level 31-Ga-71  
 Cross Section -100.0 To 1.198 %



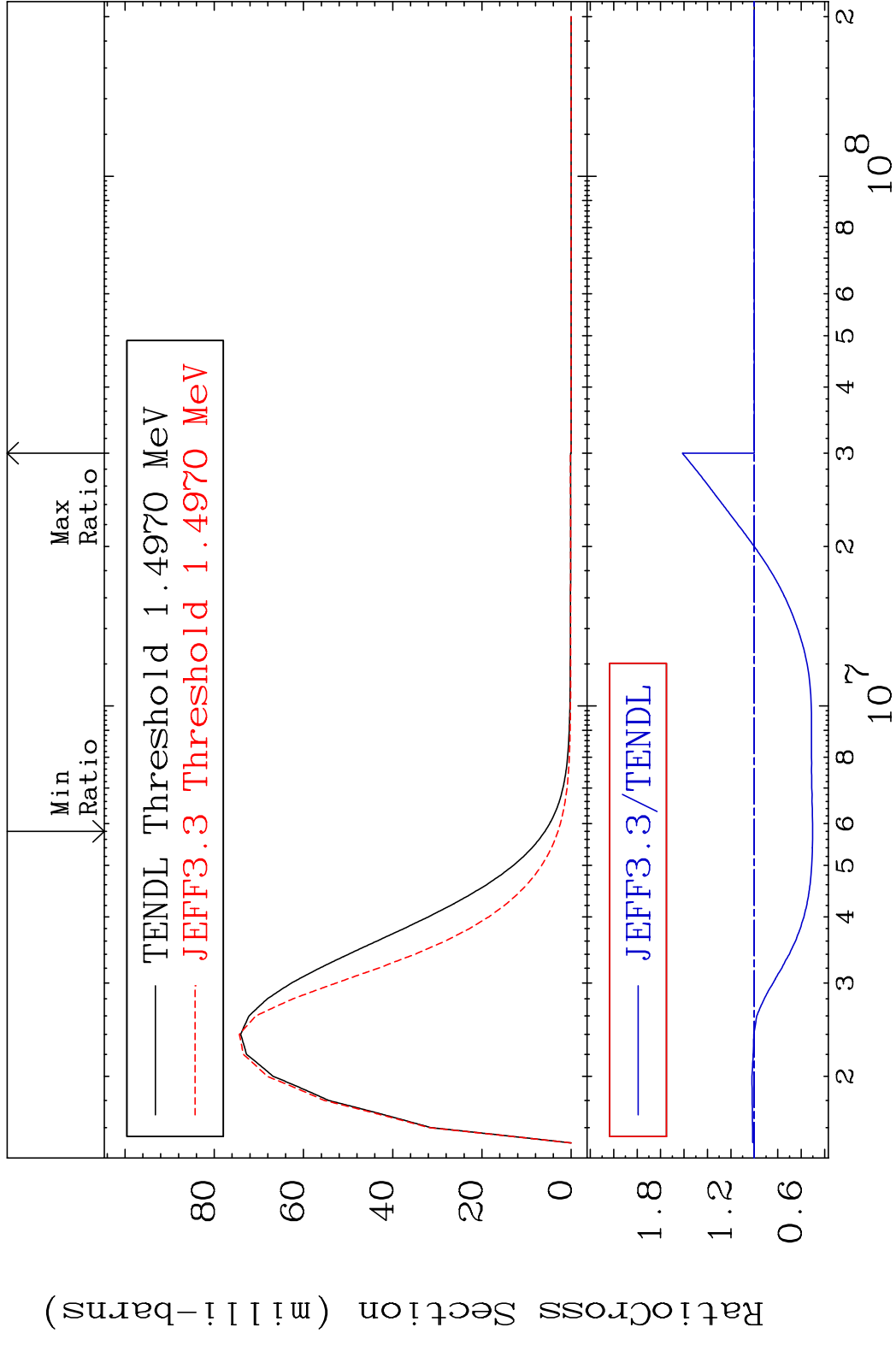
MAT 3131 MT= 58 (n, n') Level 31-Ga-71  
 Cross Section -100.0 To 1.168 %



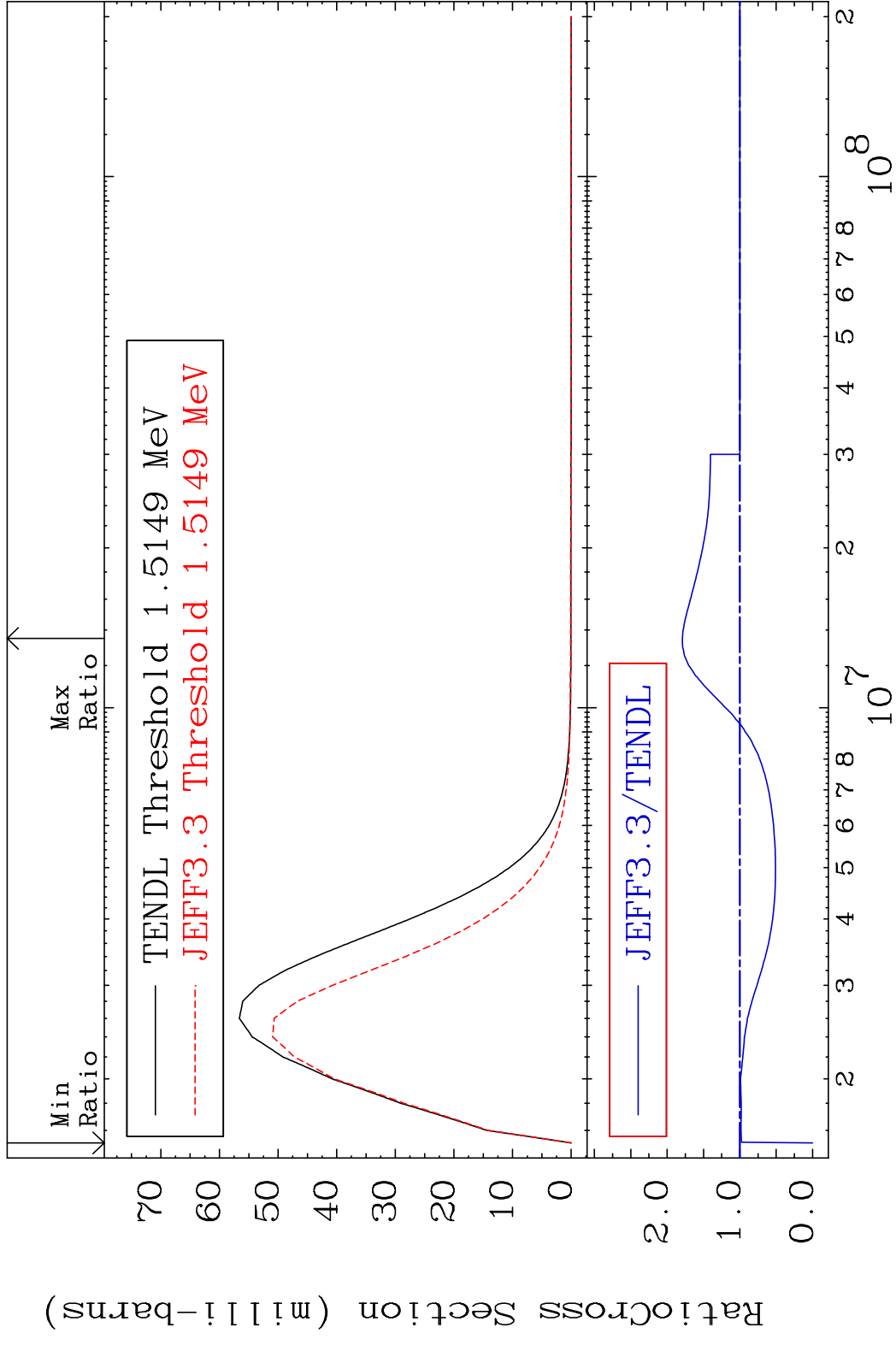
MAT 3131 MT= 59 (n,n') Level 31-Ga-71  
 Cross Section -100.0 To 1.695 %



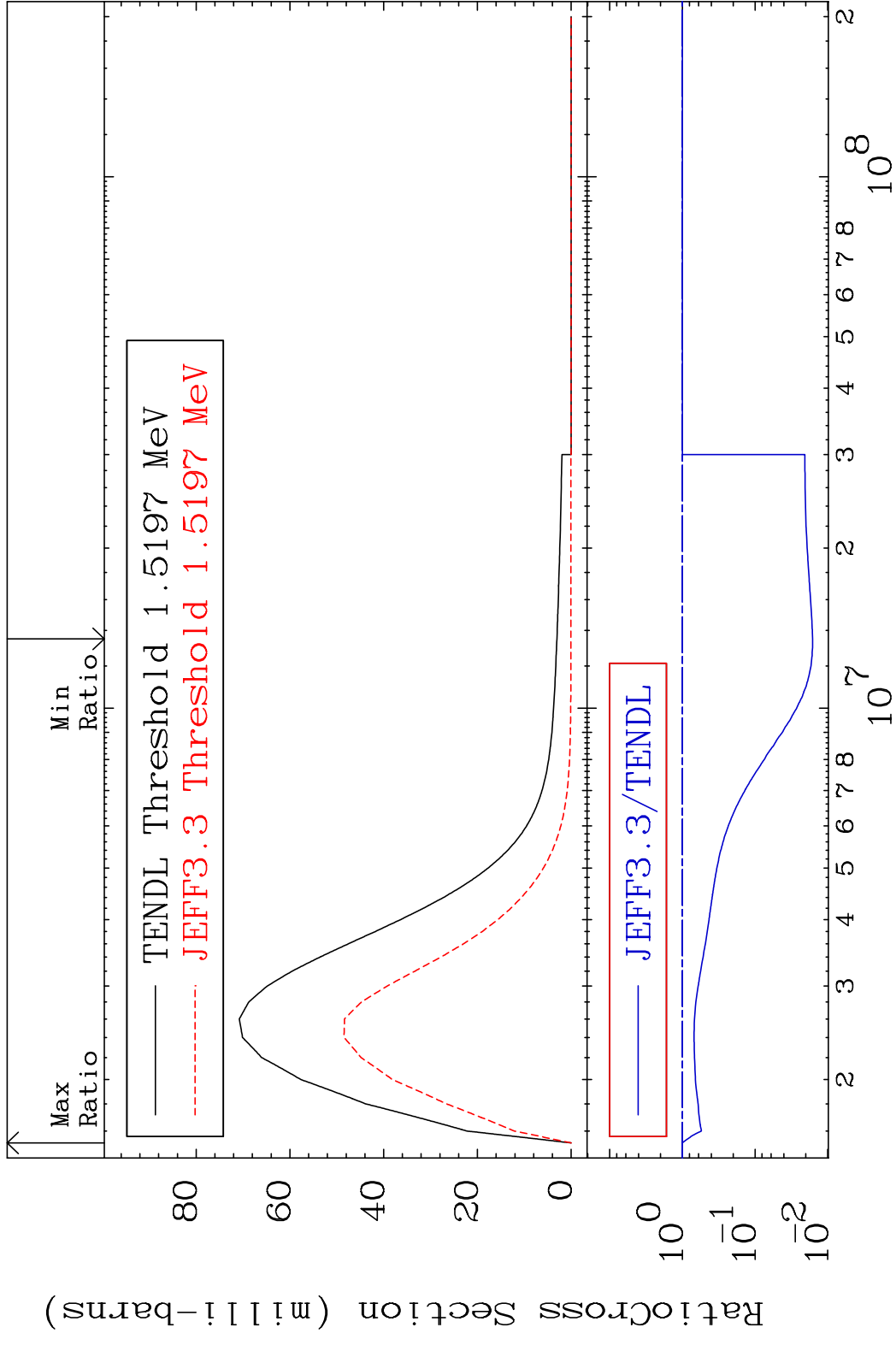
MAT 3131 MT= 60 (n, n') Level 31-Ga-71  
 Cross Section -49.71 To 61.42 %



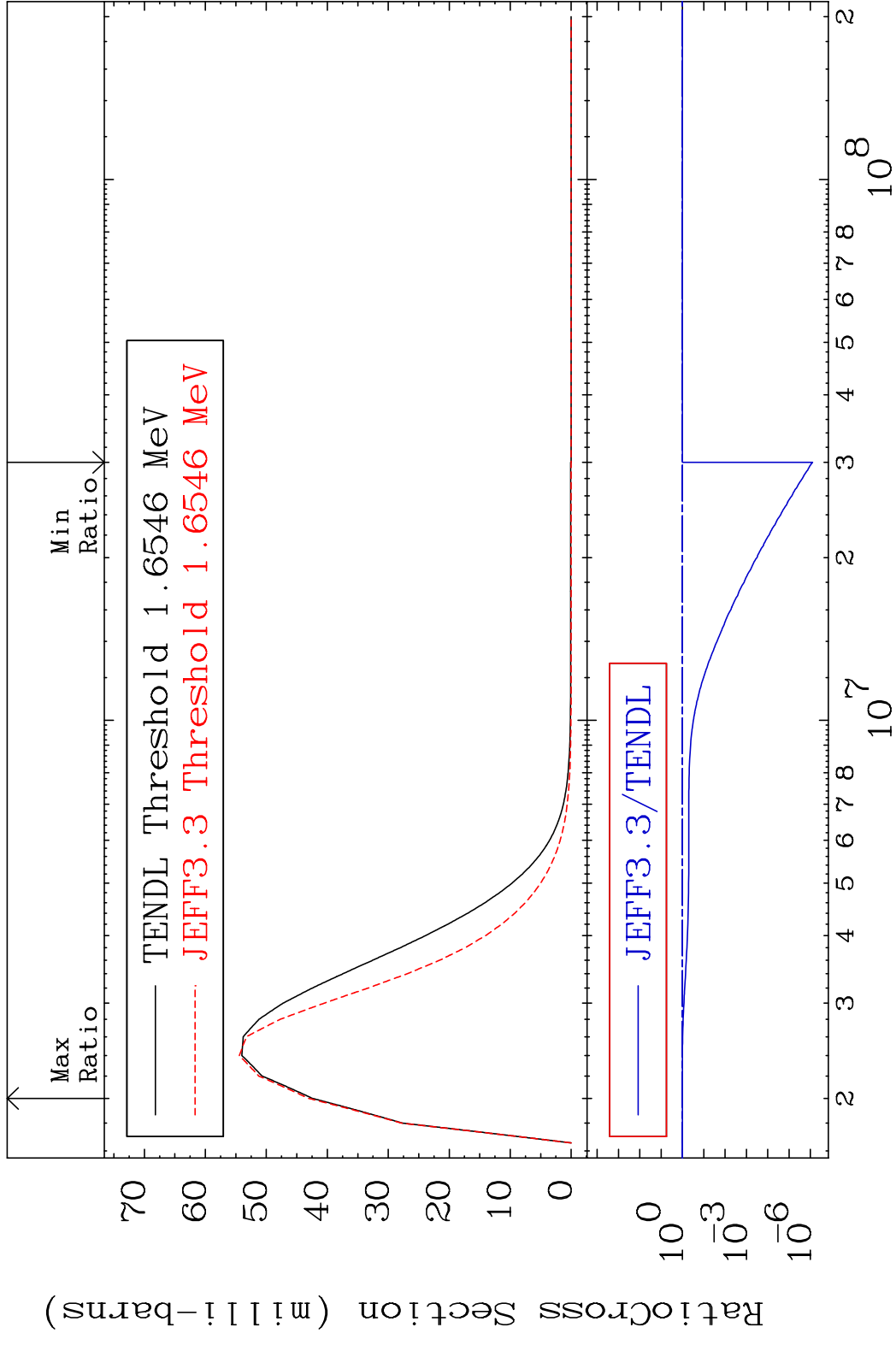
MAT 3131 MT= 61 (n, n') Level 31-Ga-71  
 Cross Section -100.0 To 79.08 %



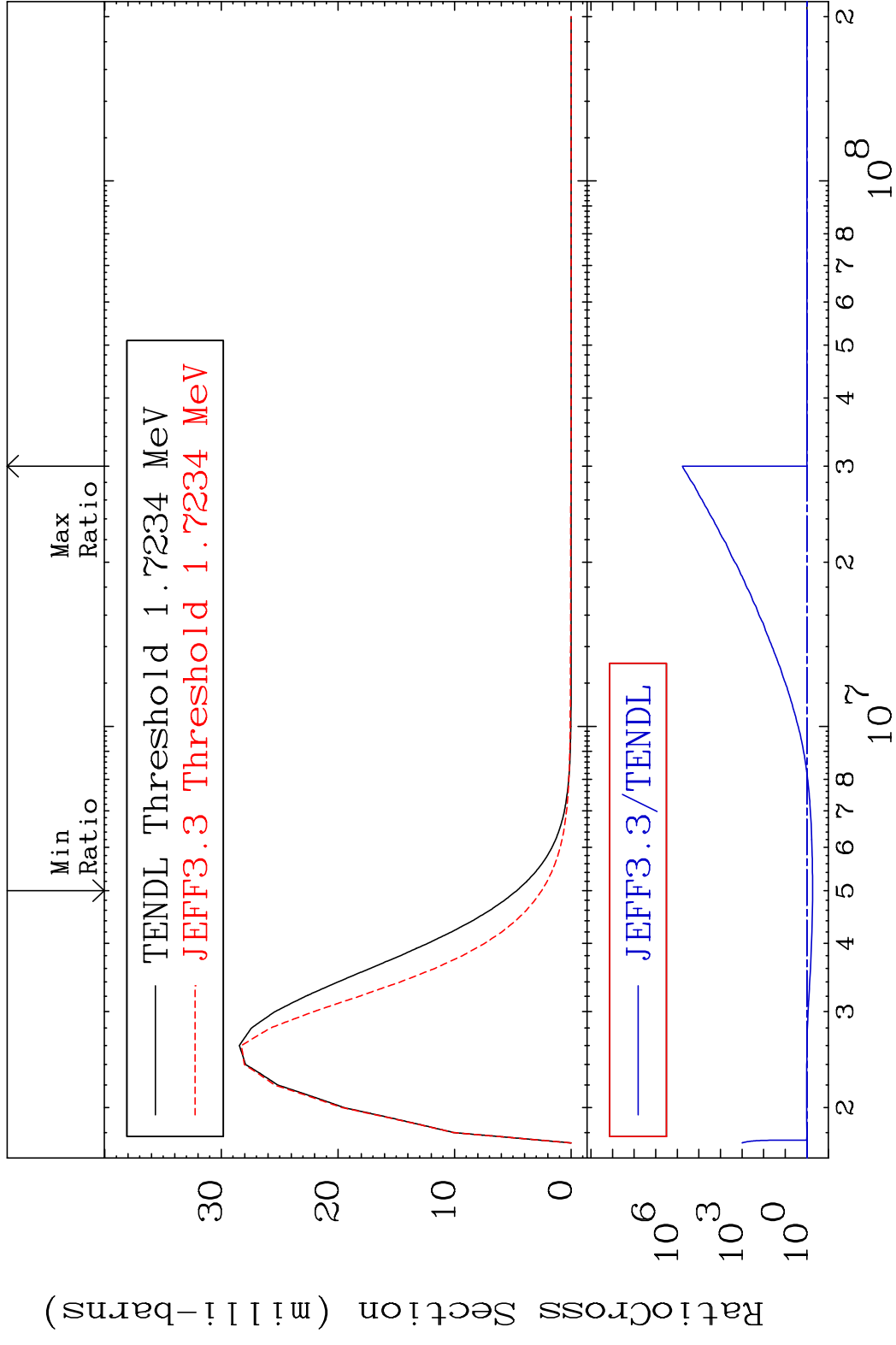
MAT 3131 MT= 62 (n,n') Level 31-Ga-71  
 Cross Section -98.38 To 0.000 %



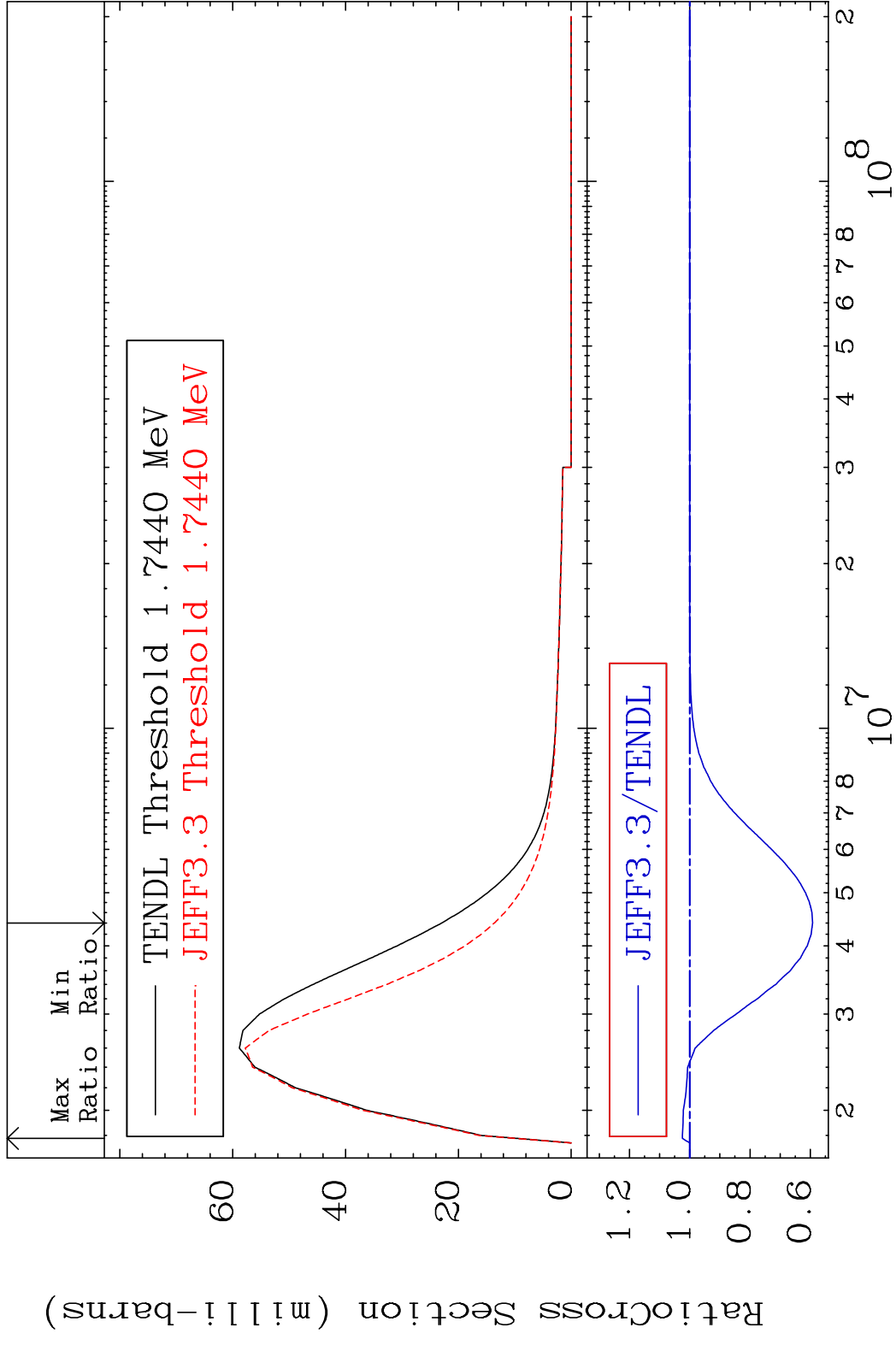
MAT 3131 MT= 63 (n, n') Level 31-Ga-71  
 Cross Section -100.0 To 1.479 %



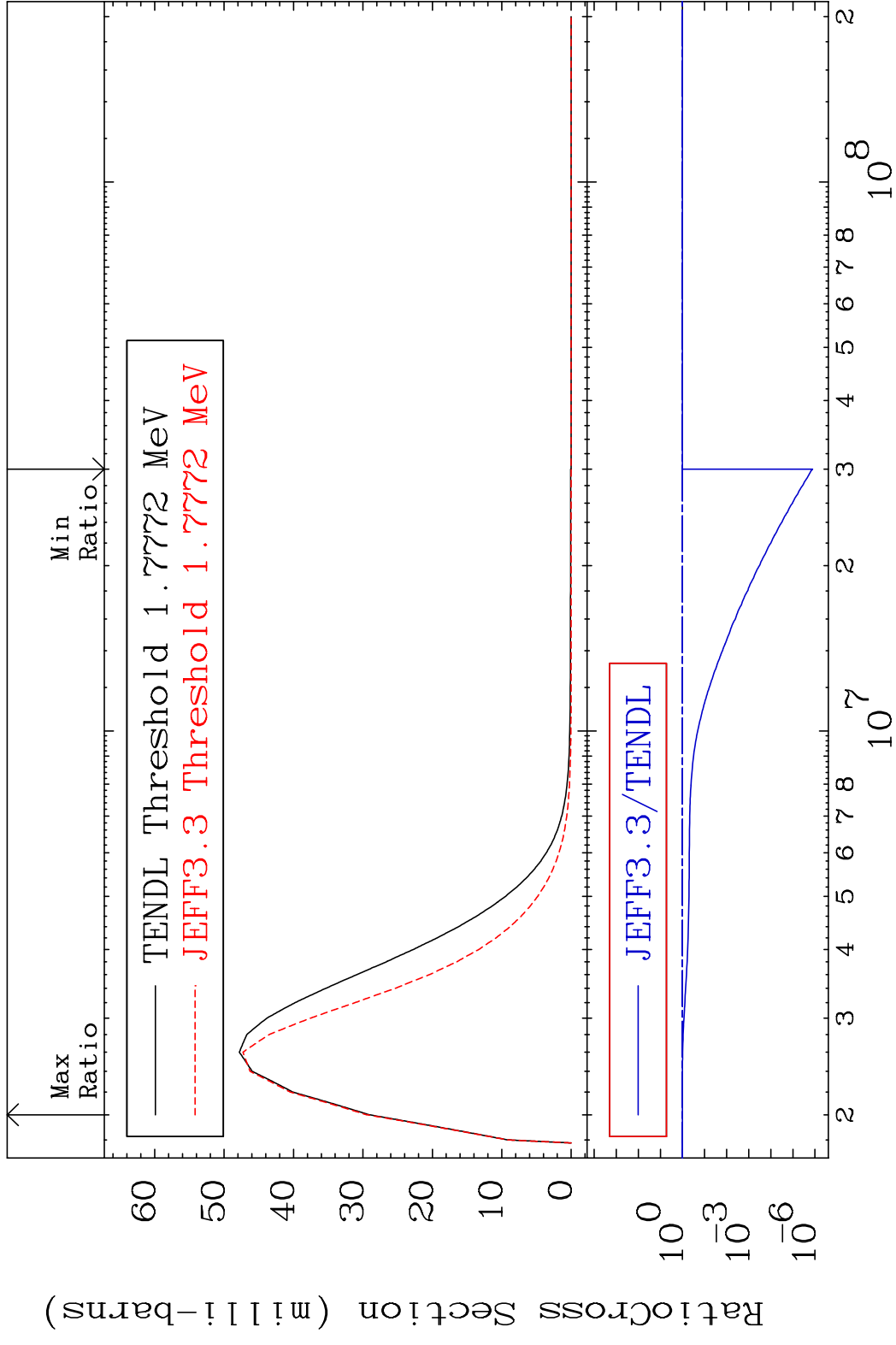
MAT 3131 MT= 64 (n, n') Level 31-Ga-71  
 Cross Section -45.79 To 9999. %



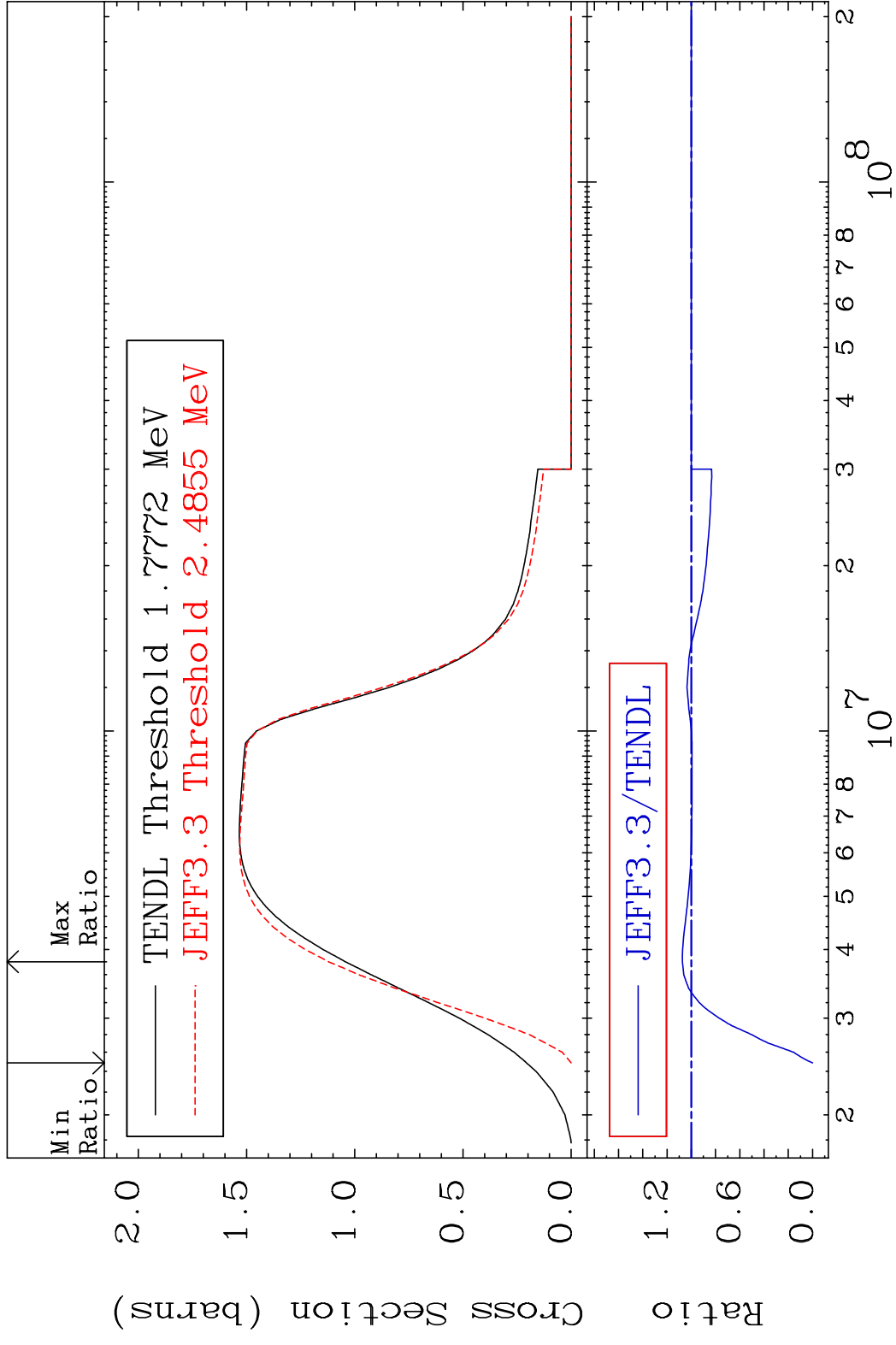
MAT 3131 MT= 65 (n,n') Level 31-Ga-71  
 Cross Section -40.75 To 2.456 %



MAT 3131 MT= 66 (n, n') Level 31-Ga-71  
 Cross Section -100.0 To 1.312 %



MAT 3131 (n, n') Continuum 31-Ga-71  
 Cross Section -100.0 To 7.371 %

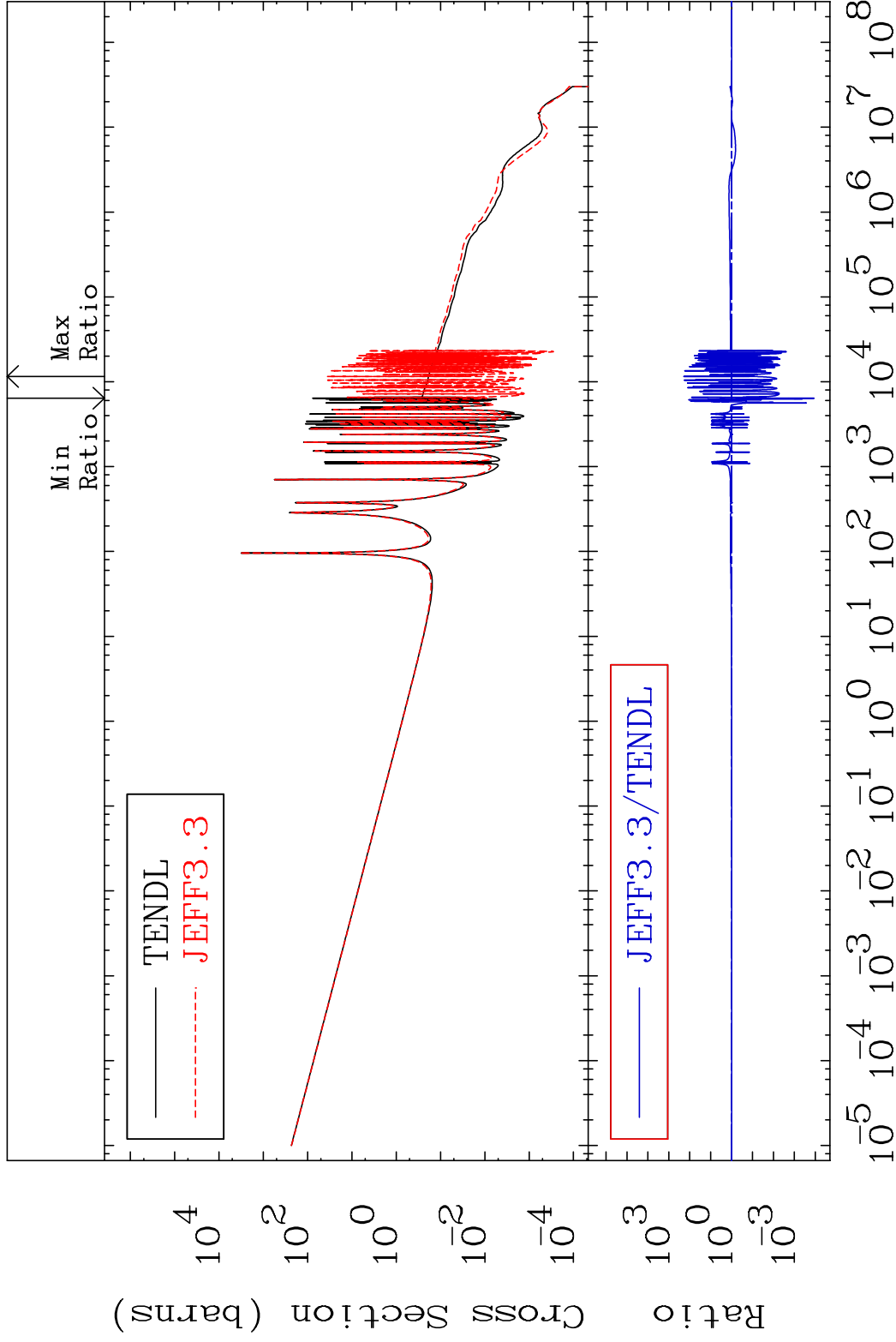


MAT 3131

(n,  $\gamma$ )

31-Ga-71

Cross Section -99.99 To 9999. %



37

Incident Energy (eV)

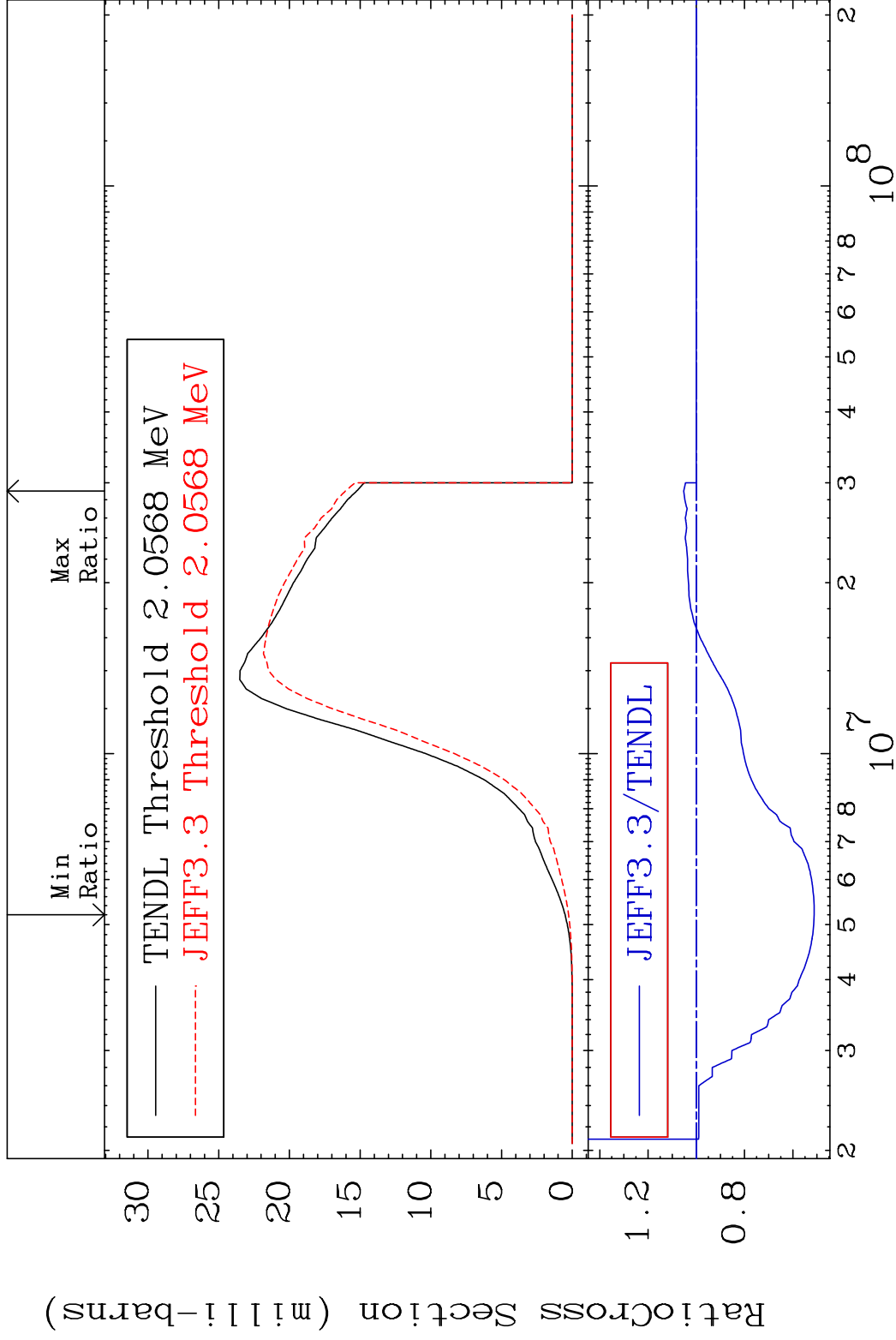
31-Ga-71

MAT 3131

(n, p)

31-Ga-71

Cross Section -48.80 To 5.239 %



38

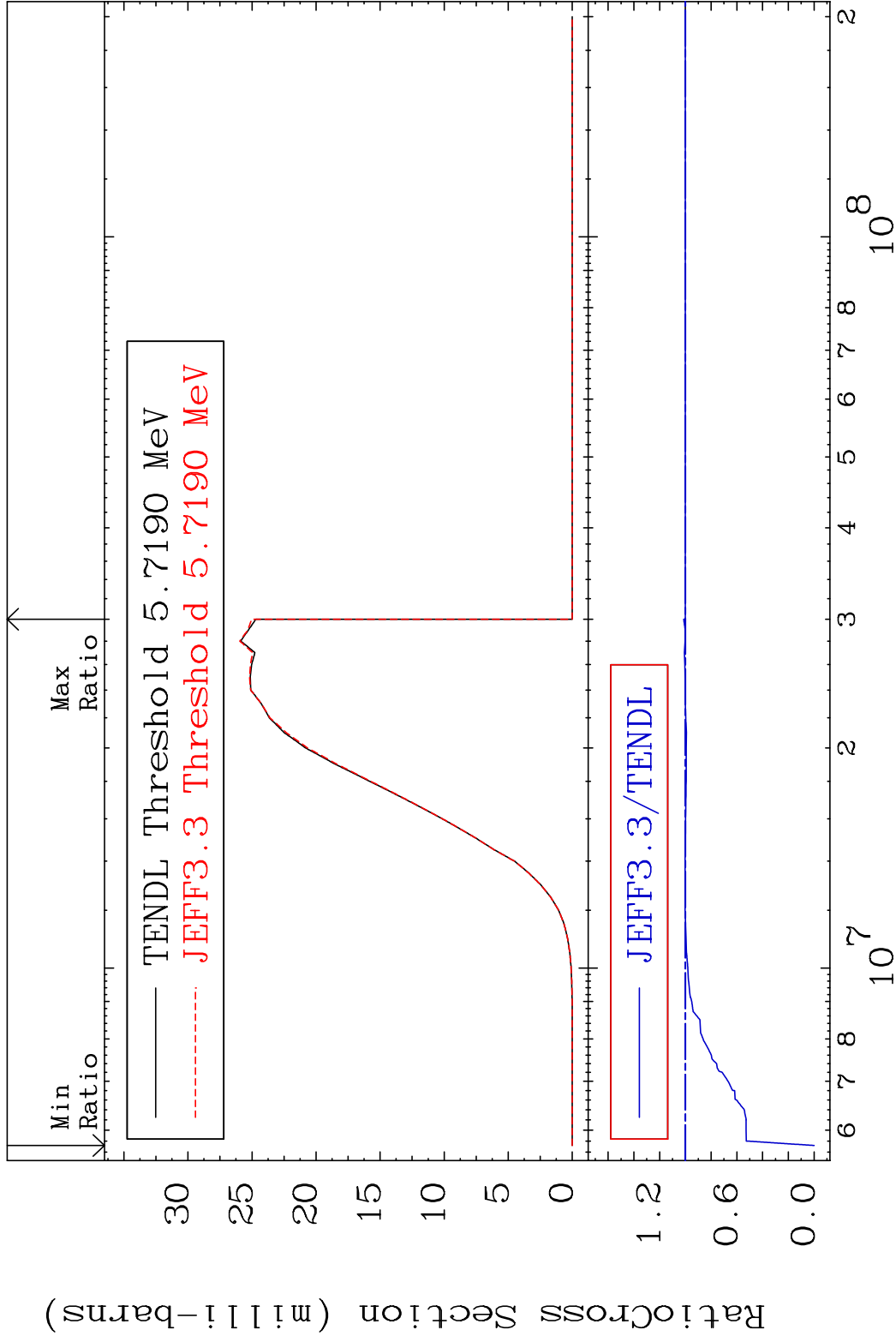
Incident Energy (eV)

31-Ga-71

MAT 3131

(n,d) 31-Ga-71

Cross Section -100.0 To 1.350 %



39

Incident Energy (eV)

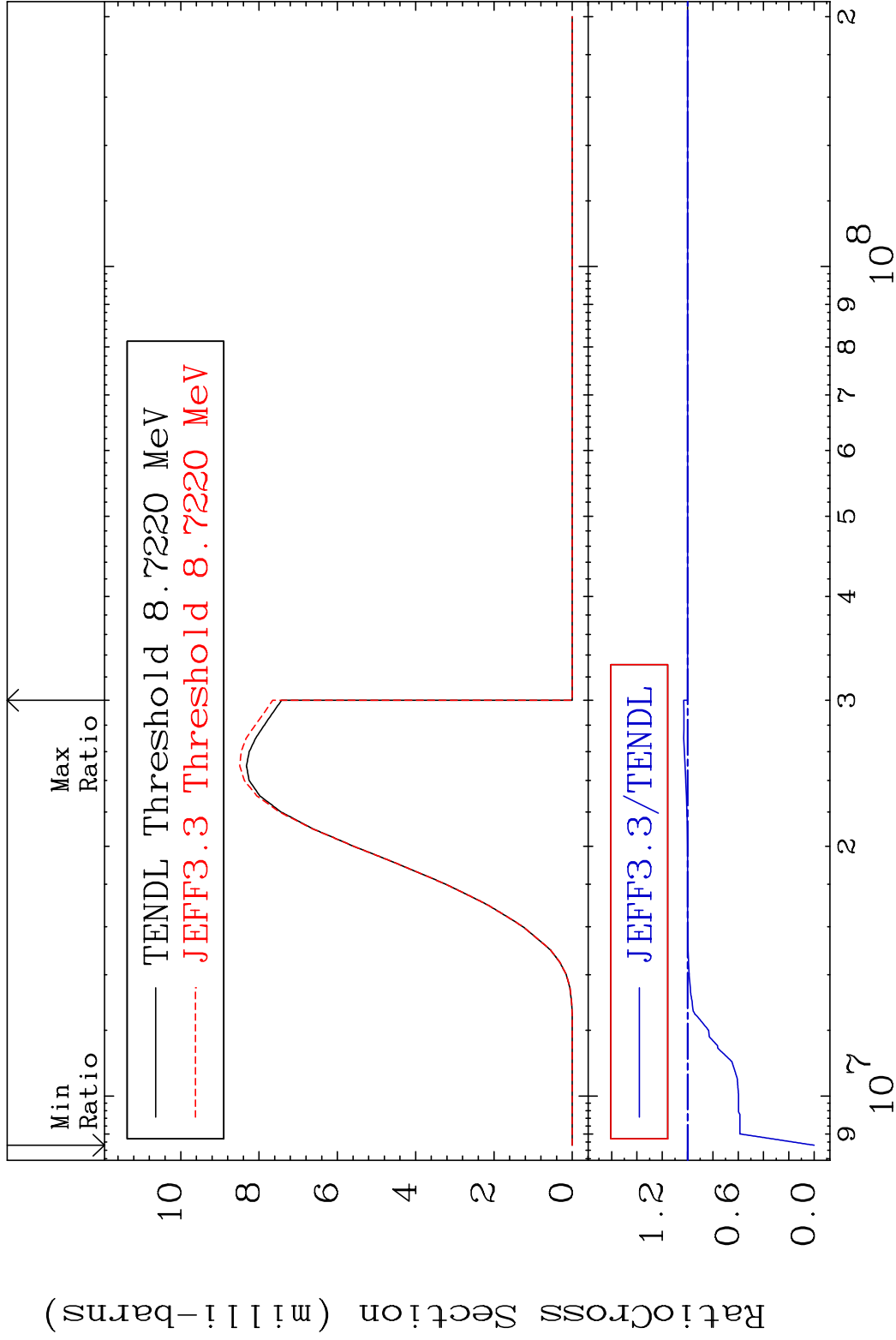
31-Ga-71

MAT 3131

(n, t)

31-Ga-71

Cross Section -100.0 To 3.094 %



40

Incident Energy (eV)

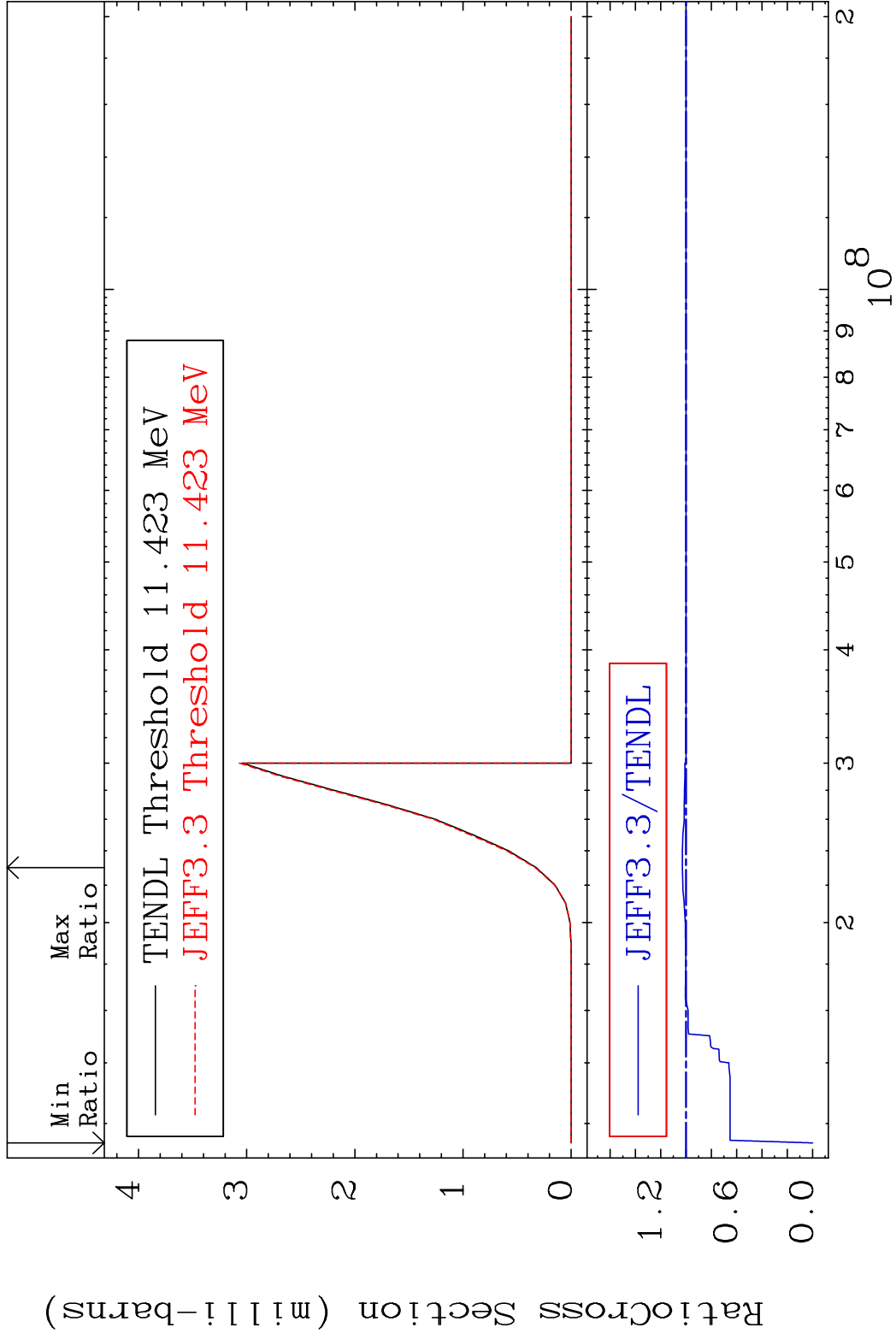
31-Ga-71

MAT 3131

(n, He-3)

31-Ga-71

Cross Section -100.0 To 2.905 %



41

Incident Energy (eV)

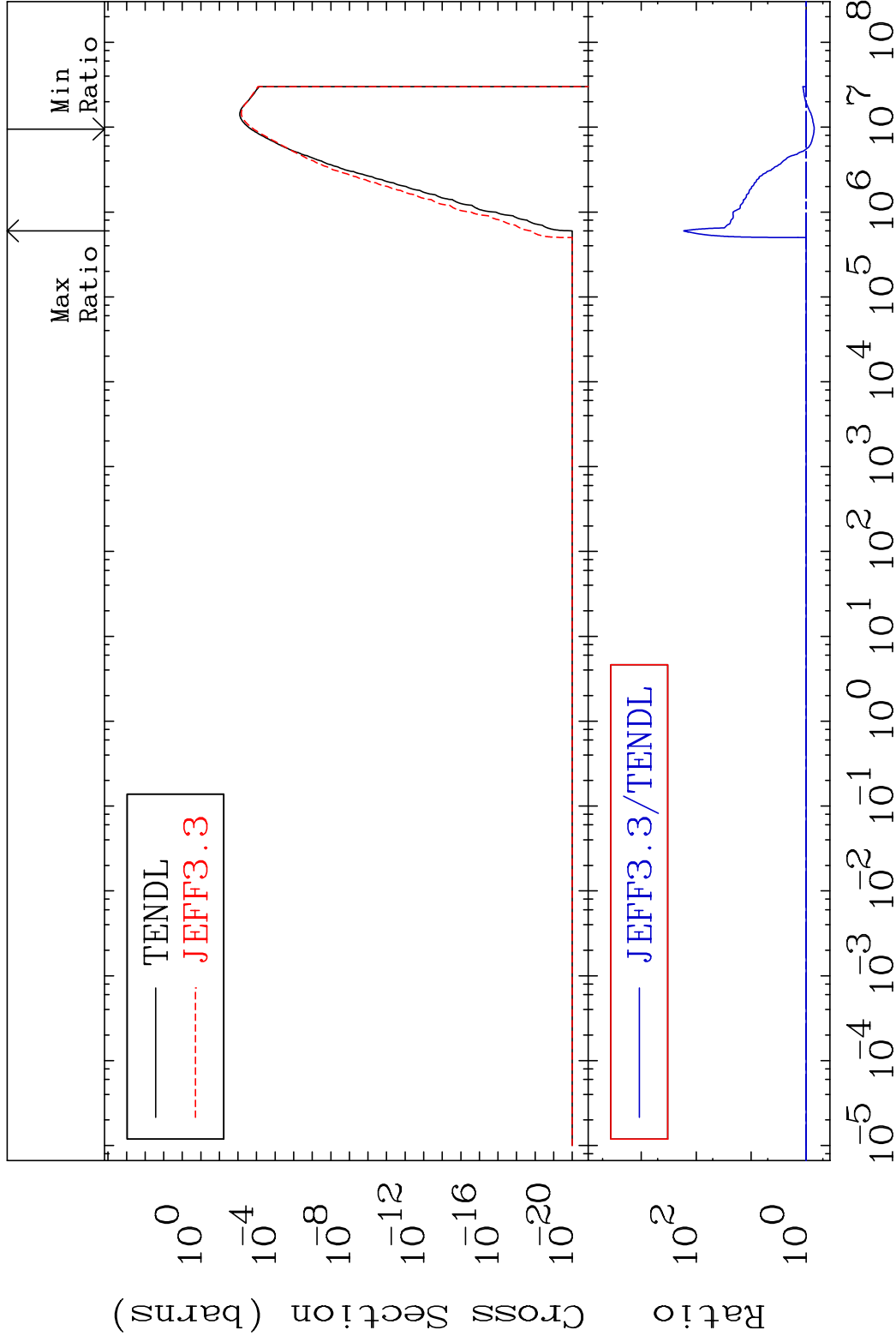
31-Ga-71

MAT 3131

(n,  $\alpha$ )

31-Ga-71

Cross Section -28.08 To 9999. %



42

Incident Energy (eV)

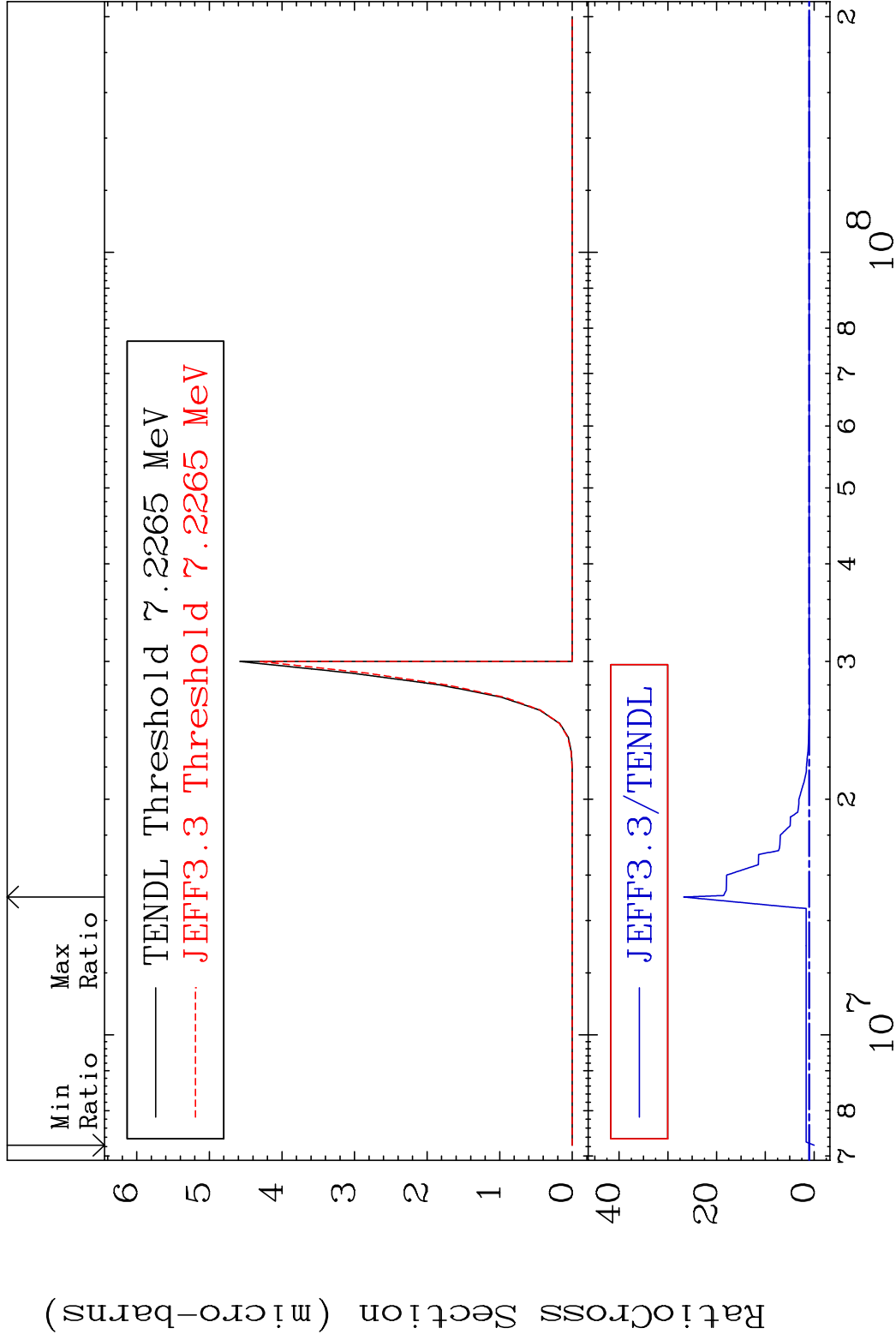
31-Ga-71

MAT 3131

(n,2α)

31-Ga-71

Cross Section -100.0 To 2576. %



43

Incident Energy (eV)

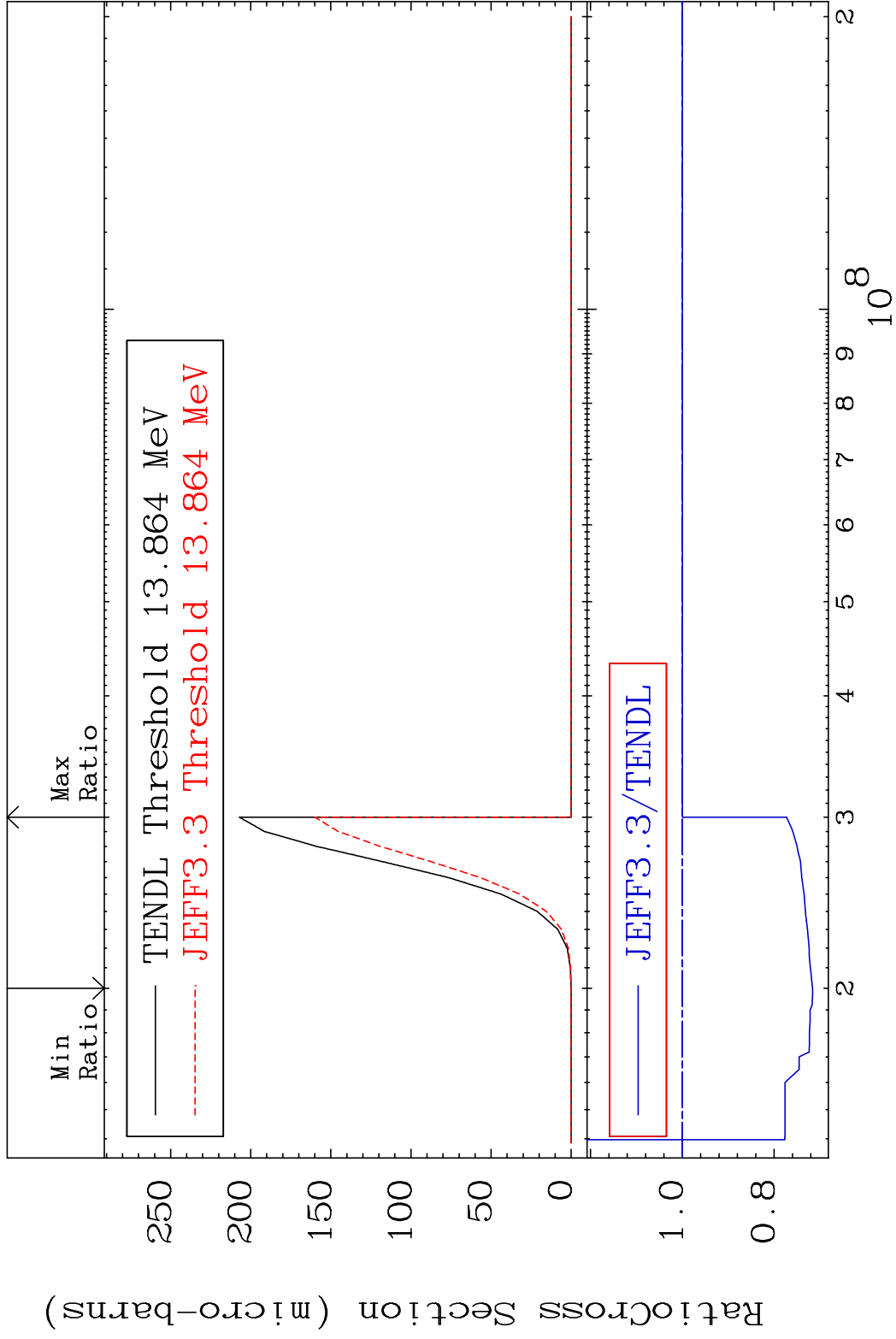
31-Ga-71

MAT 3131

(n,2p)

31-Ga-71

Cross Section -28.37 To 0.000 %



44

Incident Energy (eV)

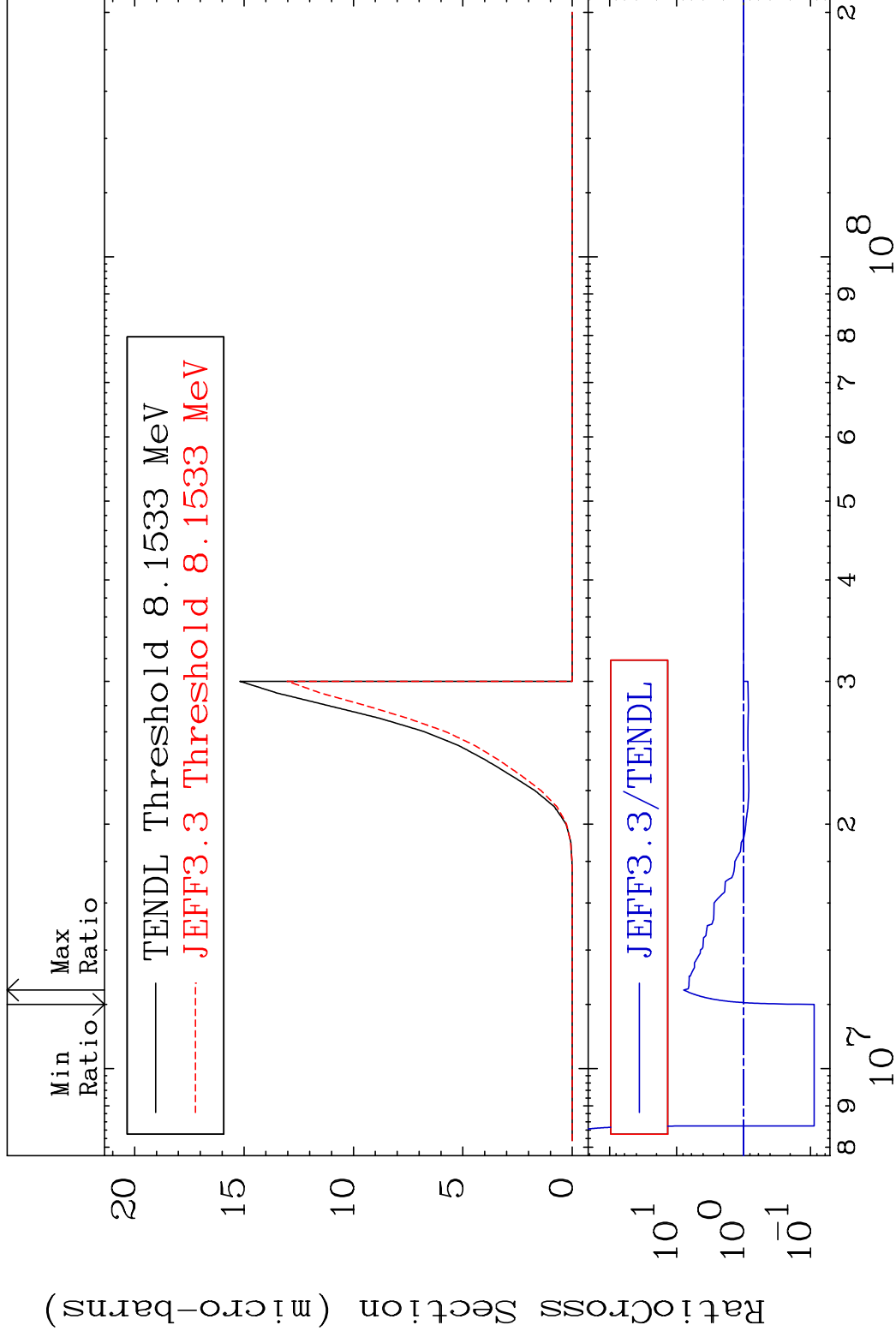
31-Ga-71

MAT 3131

(n,p)  $\alpha$

31-Ga-71

Cross Section -91.20 To 684.0 %



45

Incident Energy (eV)

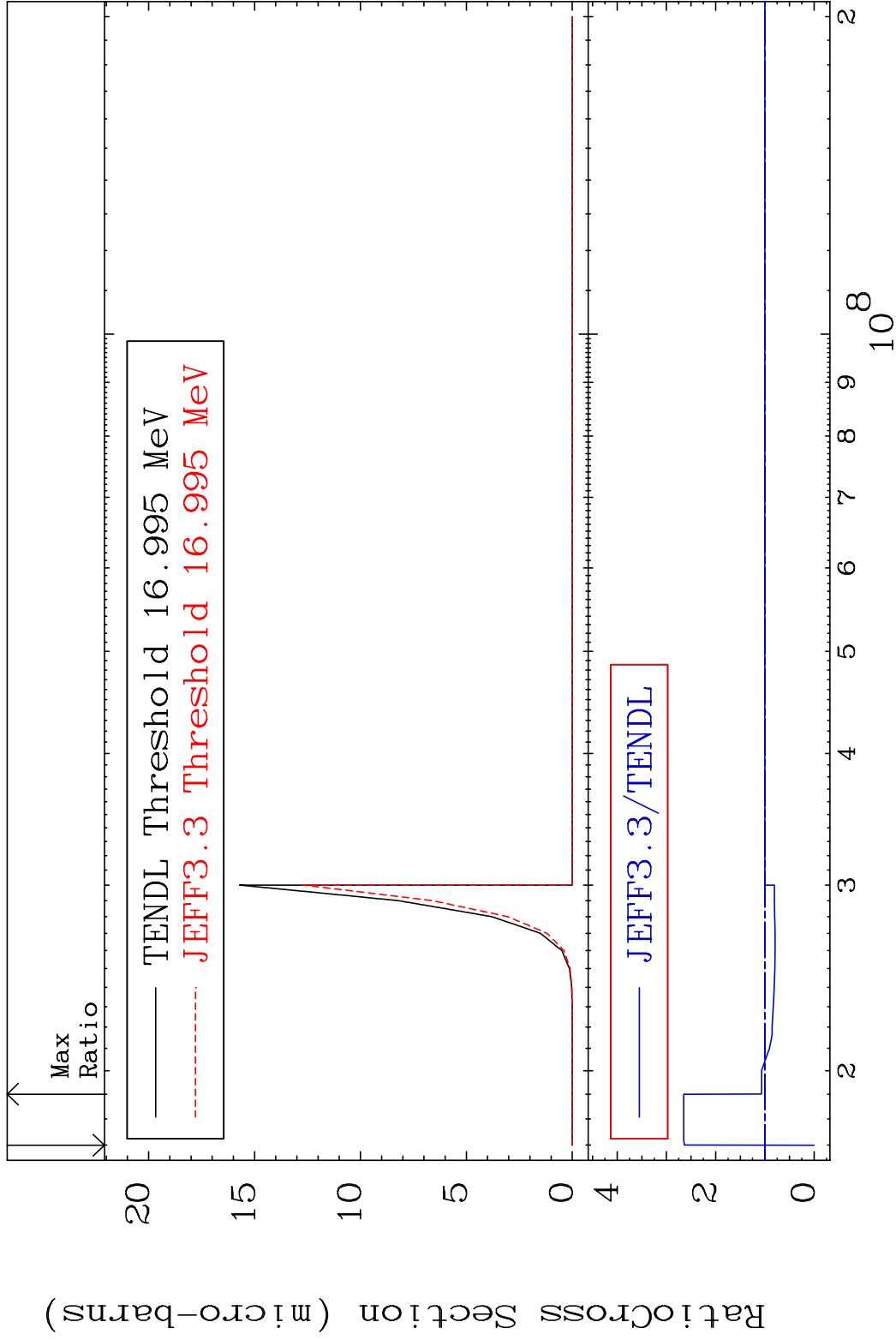
31-Ga-71

MAT 3131

(n,p) d

31-Ga-71

Cross Section -100.0 To 165.0 %



46

Incident Energy (eV)

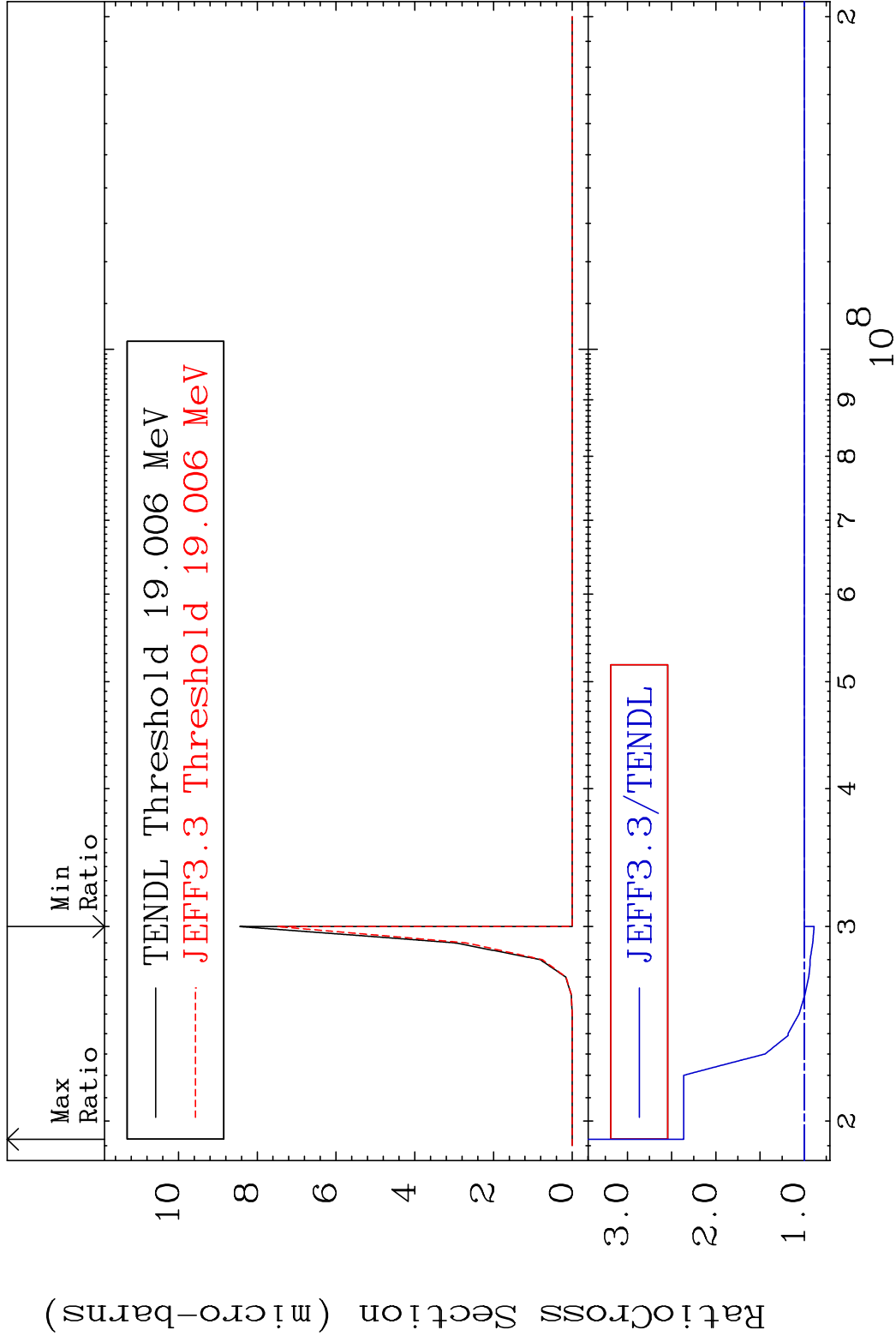
31-Ga-71

MAT 3131

(n,p) t

31-Ga-71

Cross Section -11.16 To 136.4 %



47

Incident Energy (eV)

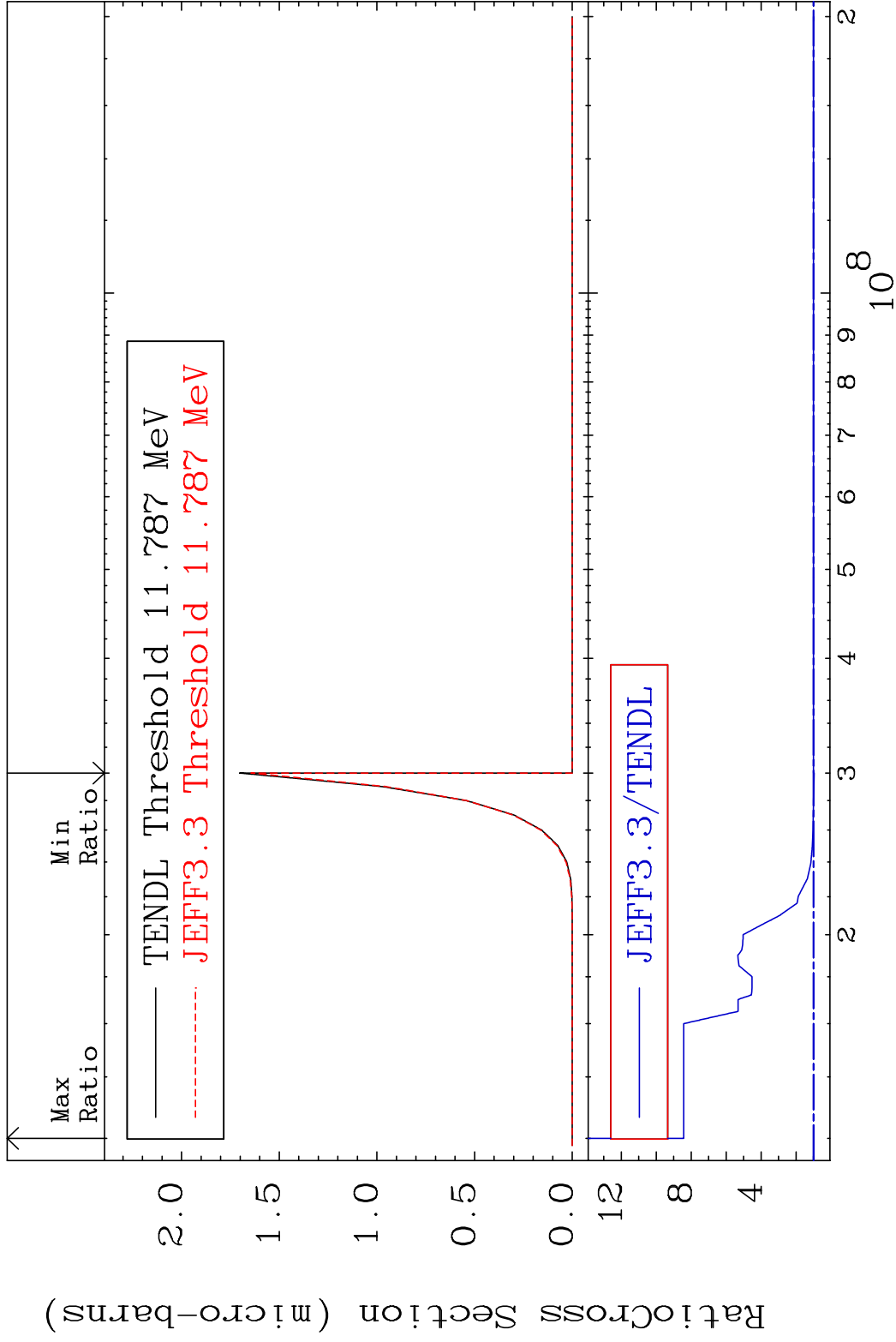
31-Ga-71

MAT 3131

(n, d)  $\alpha$

31-Ga-71

Cross Section -3.446 To 743.1 %



48

Incident Energy (eV)

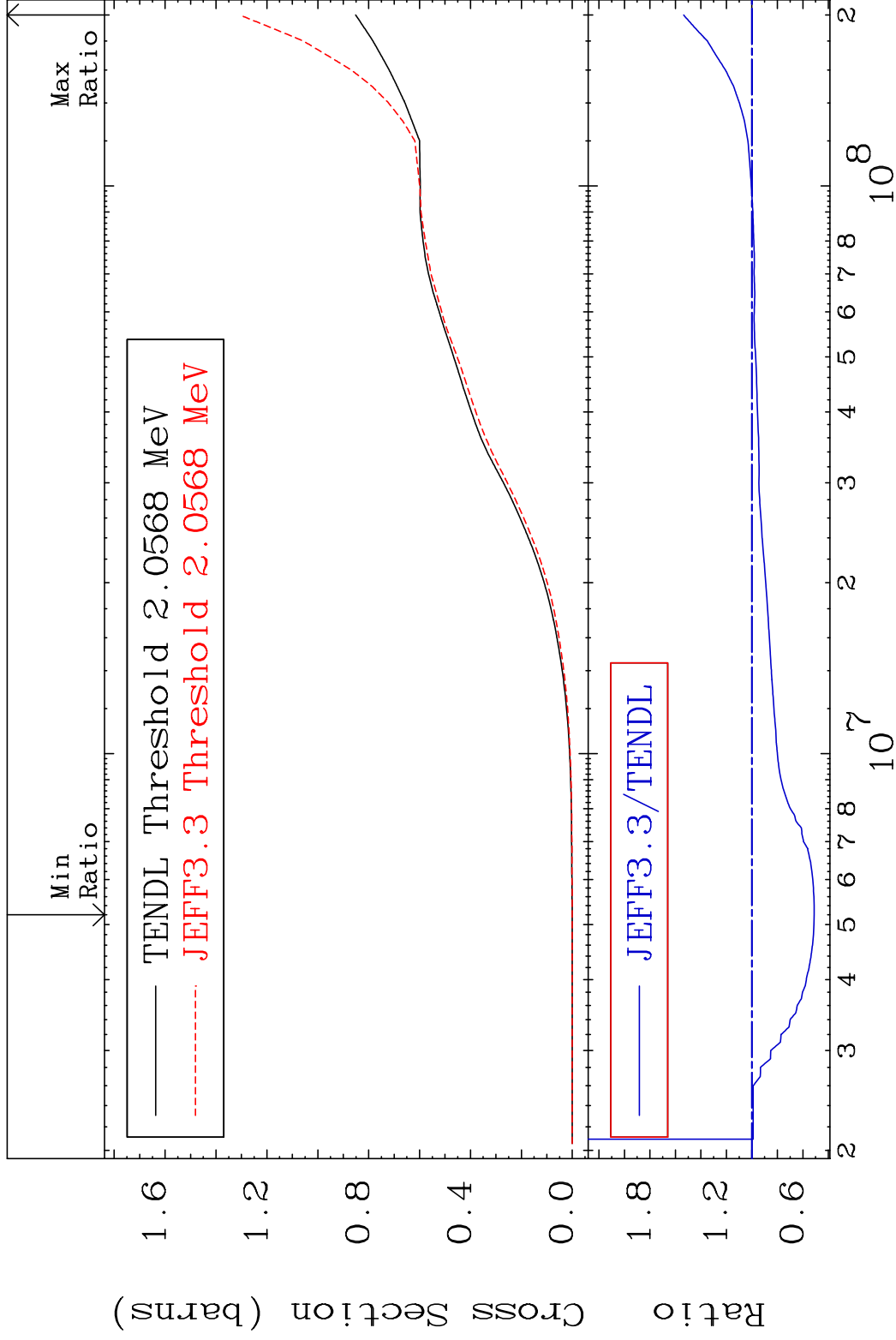
31-Ga-71

MAT 3131

Hydrogen Production

31-Ga-71

Cross Section -48.80 To 53.53 %

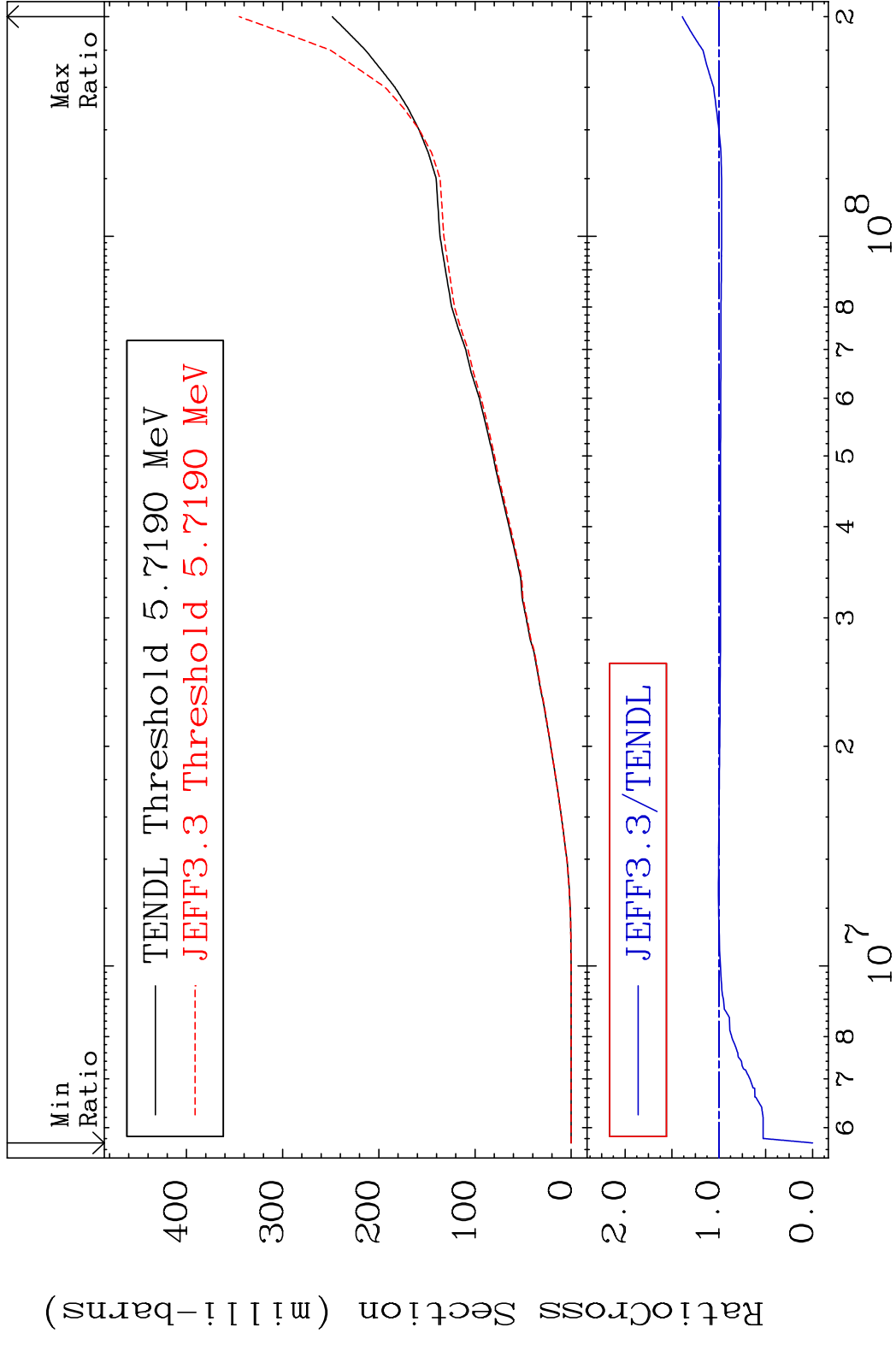


49

Incident Energy (eV)

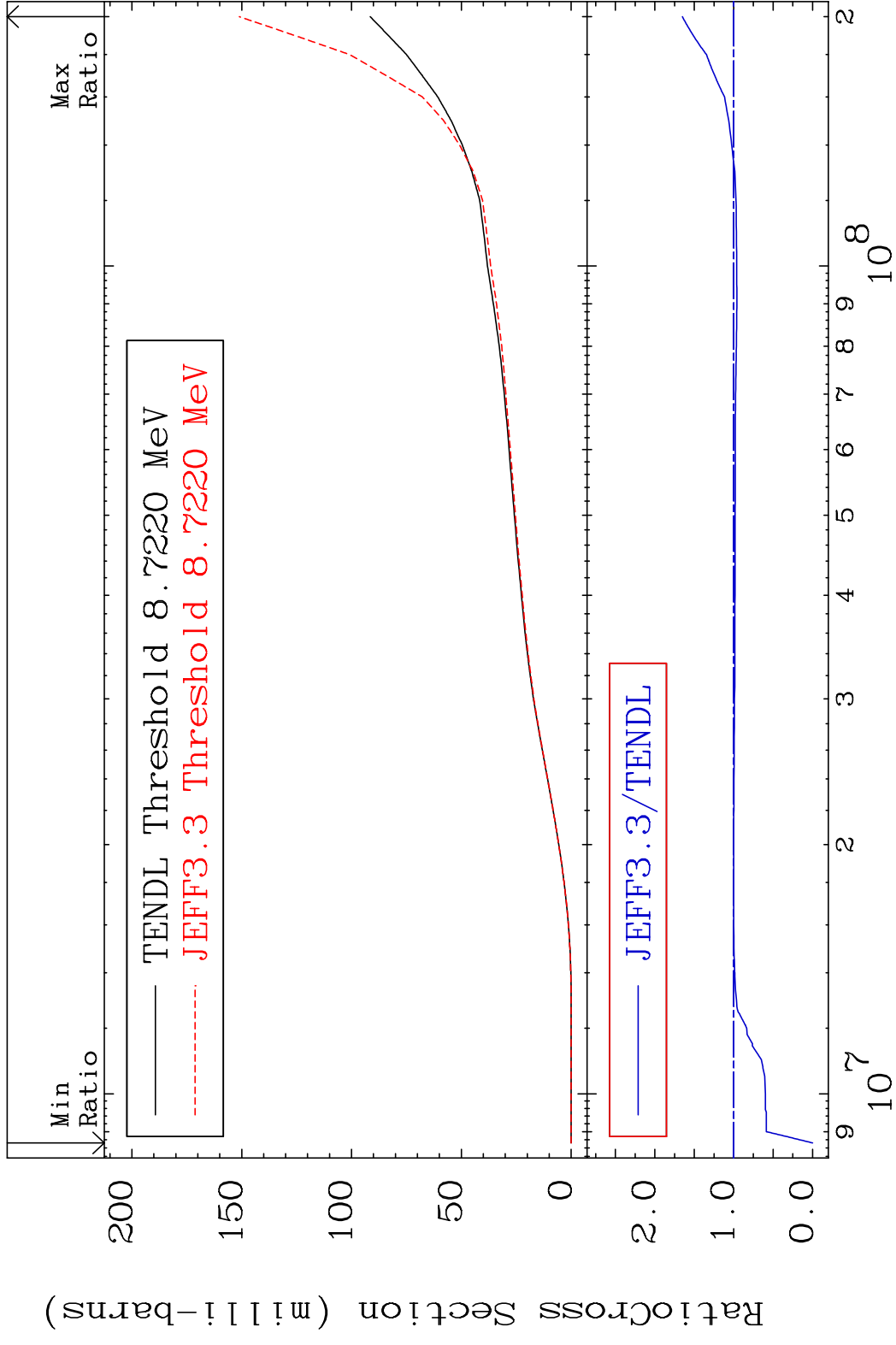
31-Ga-71

MAT 3131 Deuterium Production 31-Ga-71  
 Cross Section -100.0 To 38.90 %



50 31-Ga-71

MAT 3131 Tritium Production 31-Ga-71  
 Cross Section -100.0 To 65.10 %

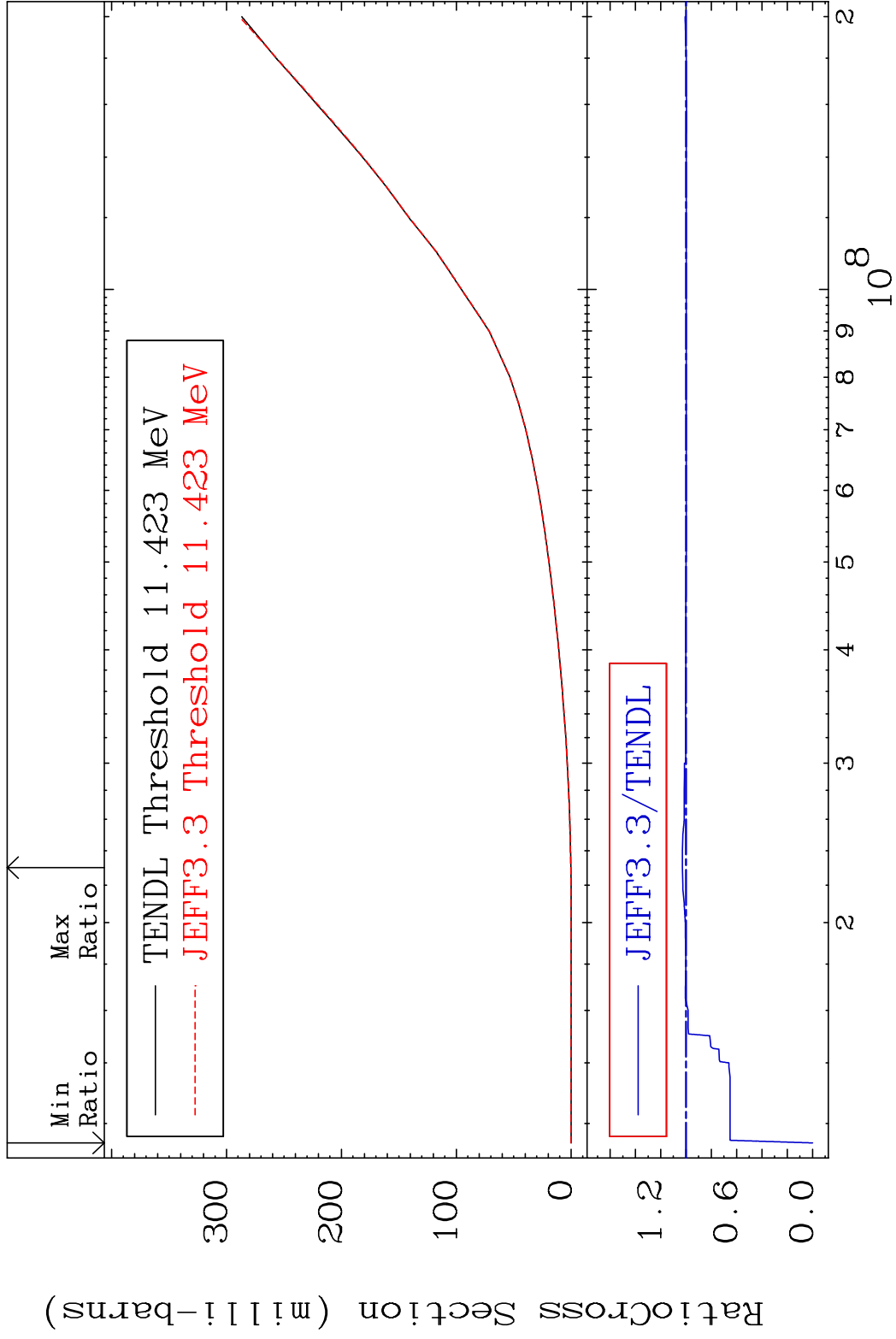


MAT 3131

He-3 Production

31-Ga-71

Cross Section -100.0 To 2.905 %

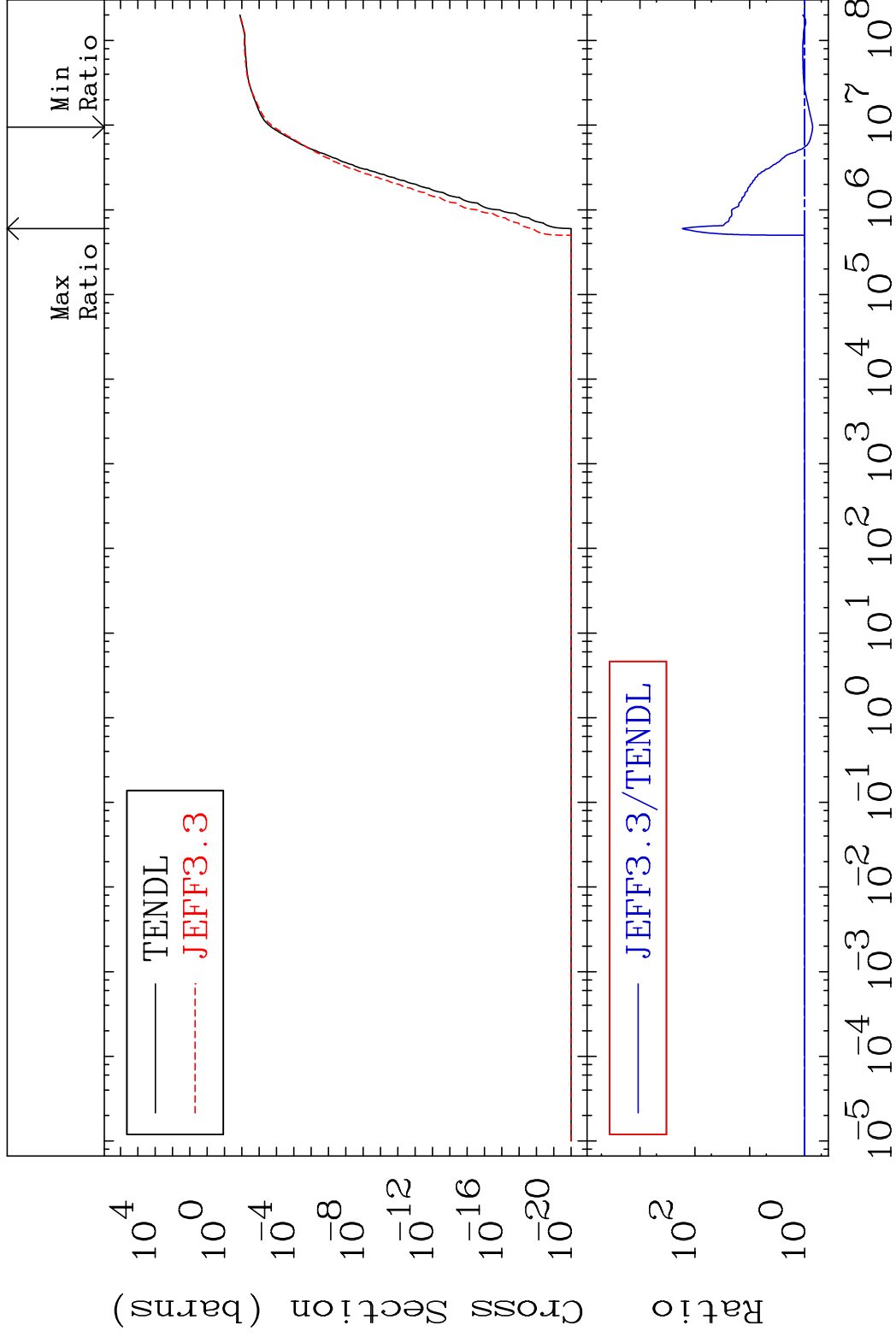


MAT 3131

He-4 Production

31-Ga-71

Cross Section -28.05 To 9999. %

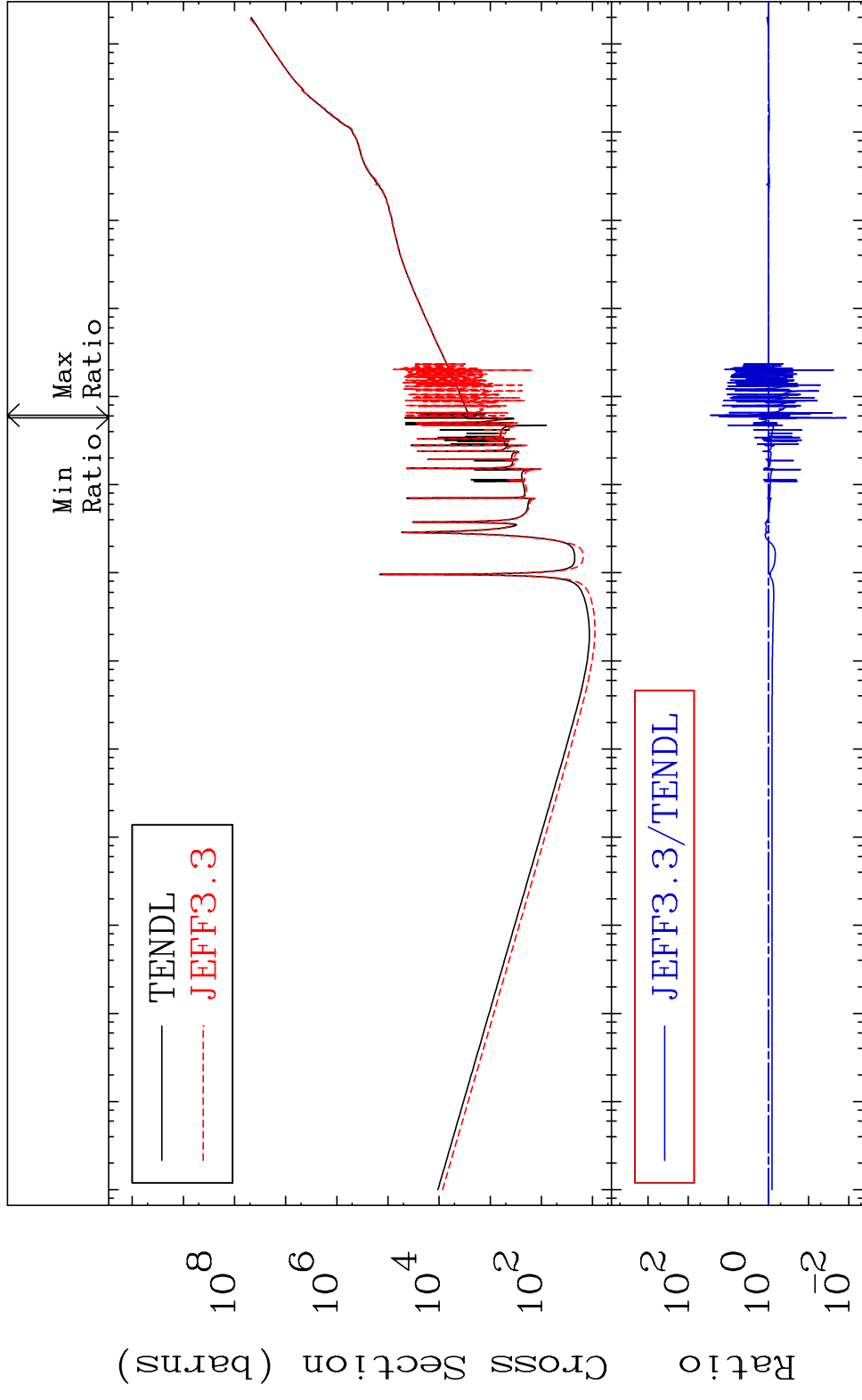


53

Incident Energy (eV)

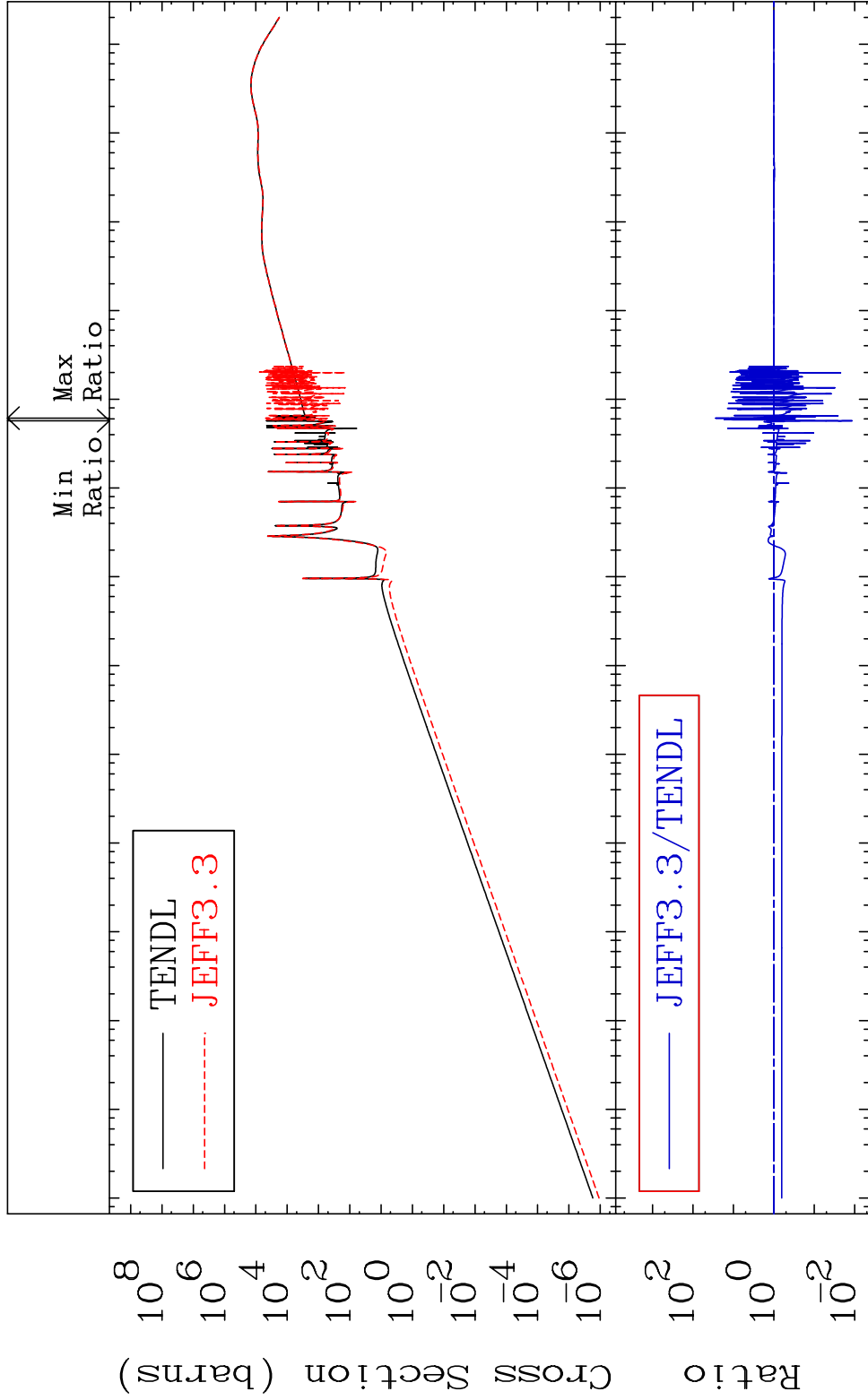
31-Ga-71

MAT 3131 Kerma total (eV-barns) 31-Ga-71  
 Cross Section -98.85 To 2654. %



MAT 3131

Kerma elastic Cross Section -98.85 To 2649. %  
31-Ga-71

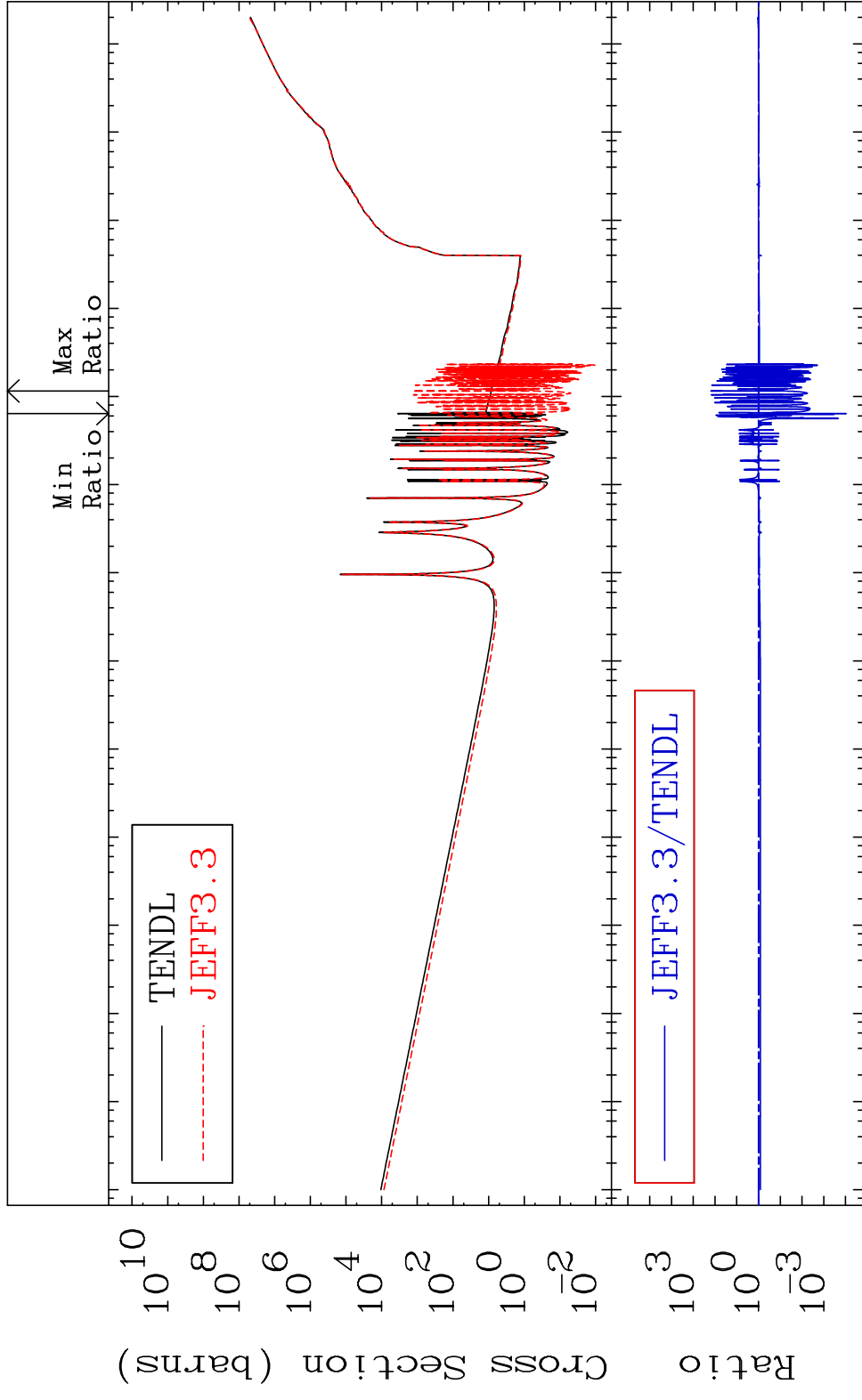


55

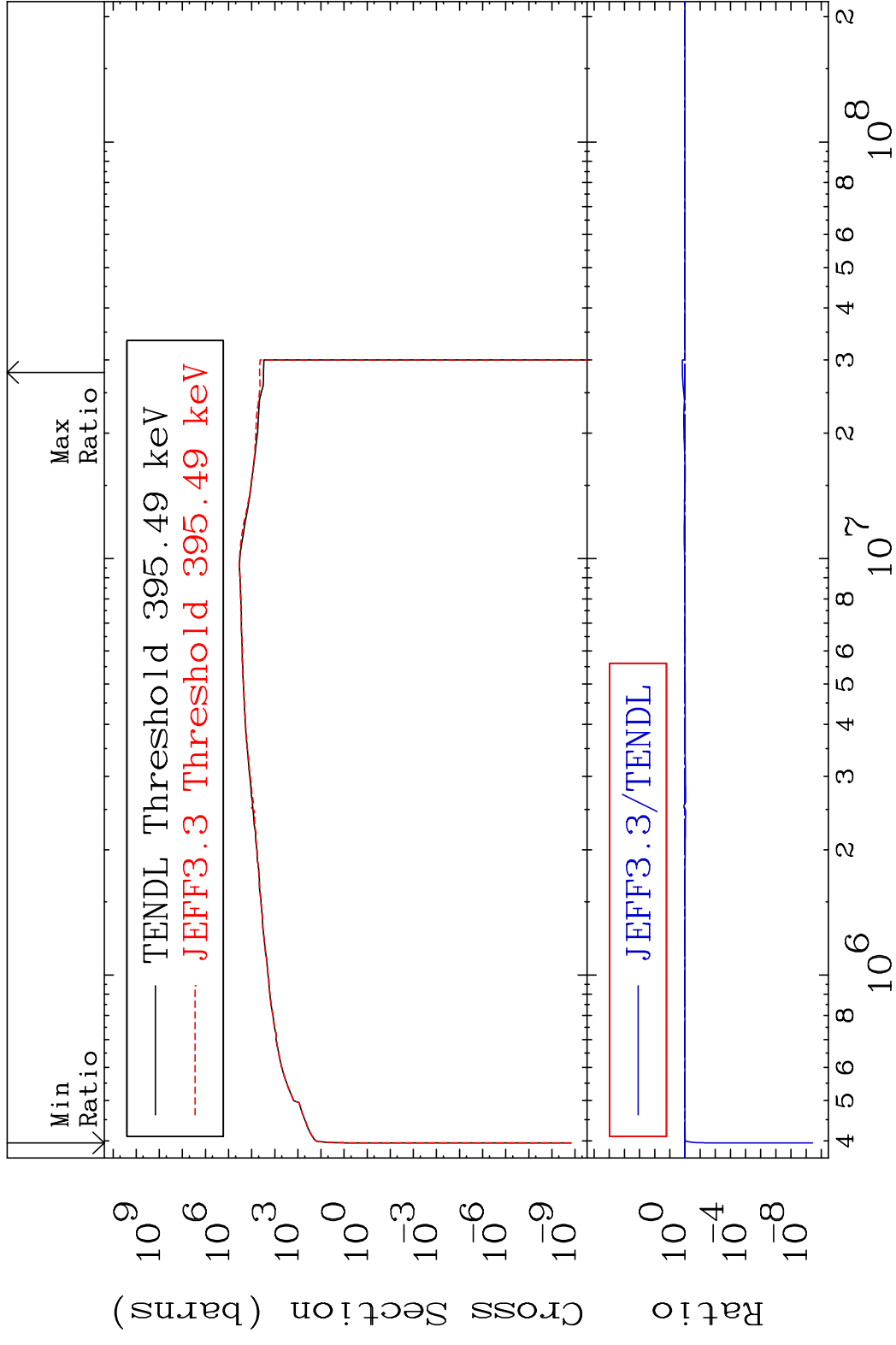
Incident Energy (eV)

31-Ga-71

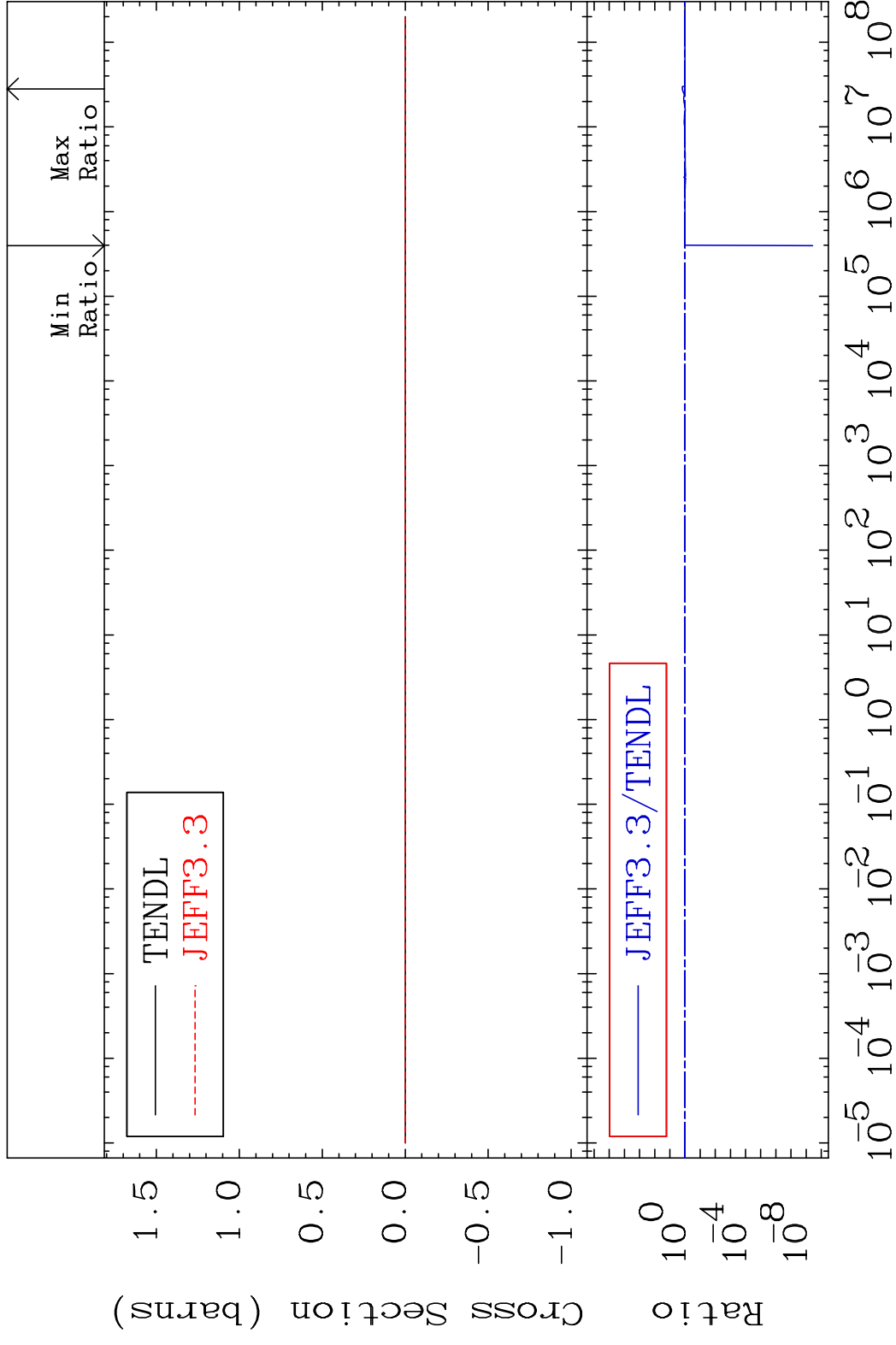
MAT 3131 Kerma non-elastic (all but mt2) 31-Ga-71  
 Cross Section -99.99 To 9999. %



MAT 3131 Kerma inelastic (mt51-91) 31-Ga-71  
 Cross Section -100.0 To 49.12 %



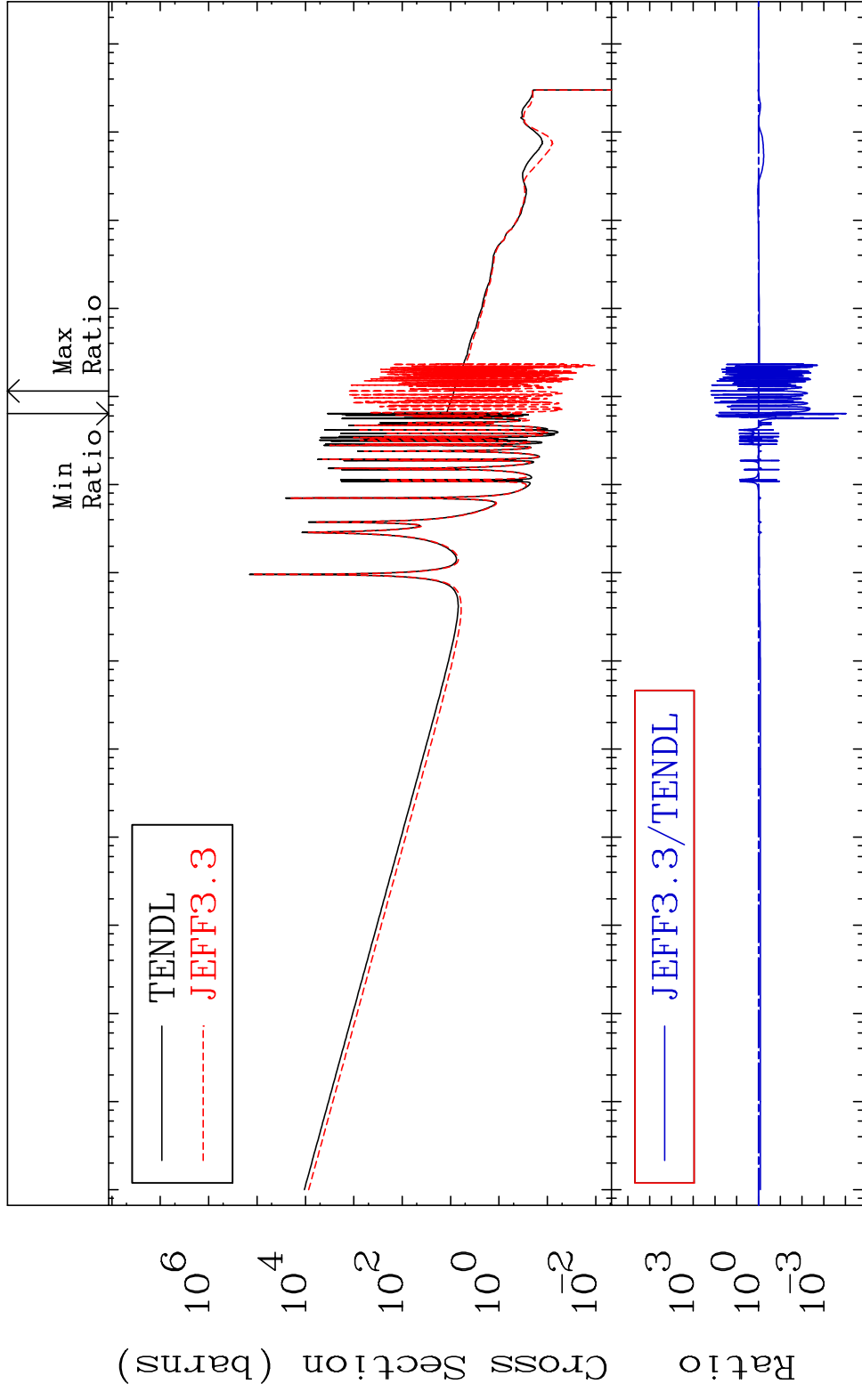
MAT 3131 Kerma fission (mt18 or mt19-20-21-38) 31-Ga-71  
 Cross Section -100.0 To 49.12 %



MAT 3131

Kerma capture (mt102) 31-Ga-71

Cross Section -99.99 To 9999. %

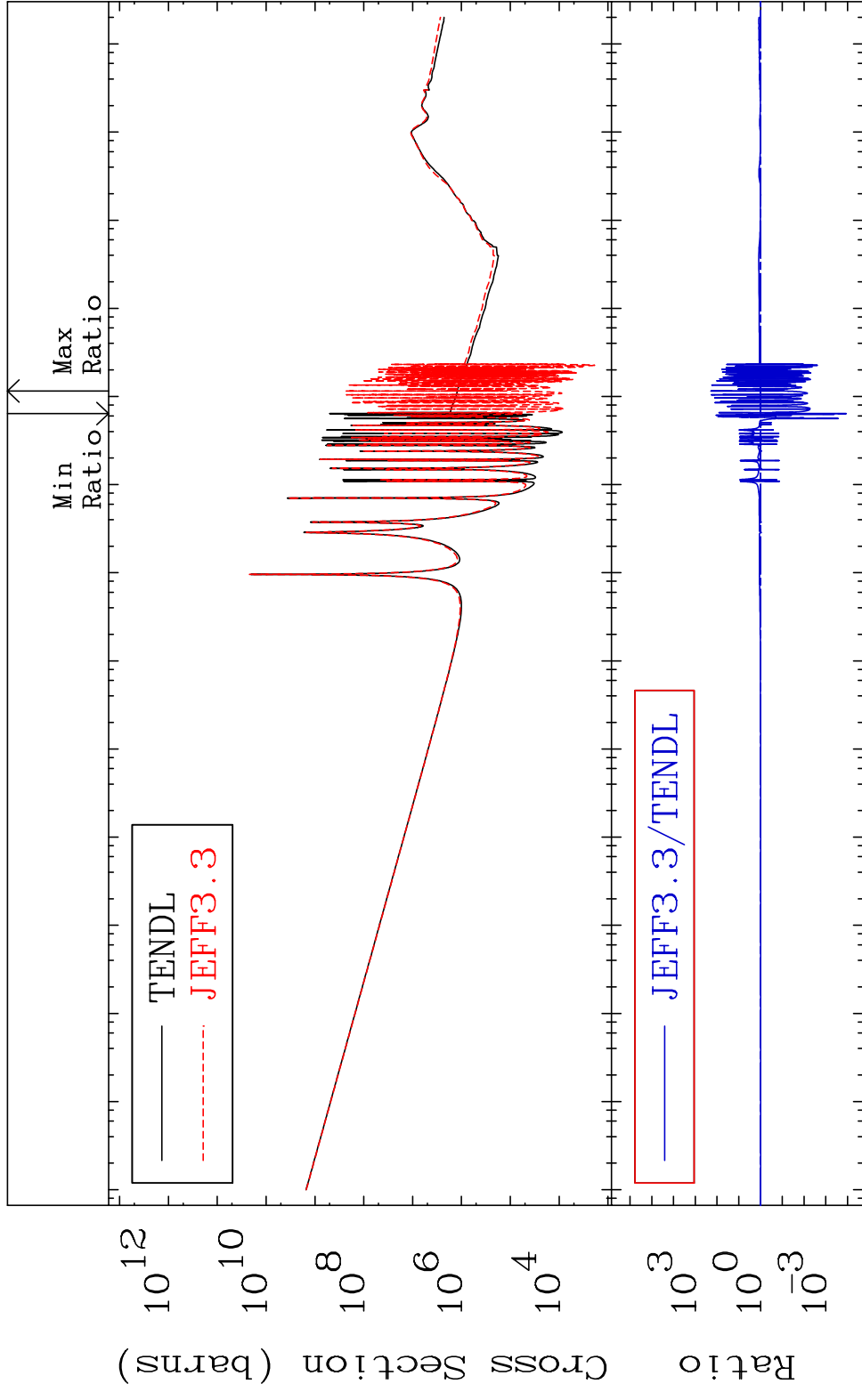


Ratio

10<sup>6</sup>  
10<sup>4</sup>  
10<sup>2</sup>  
10<sup>0</sup>  
10<sup>-2</sup>  
10<sup>3</sup>  
10<sup>0</sup>  
10<sup>-3</sup>

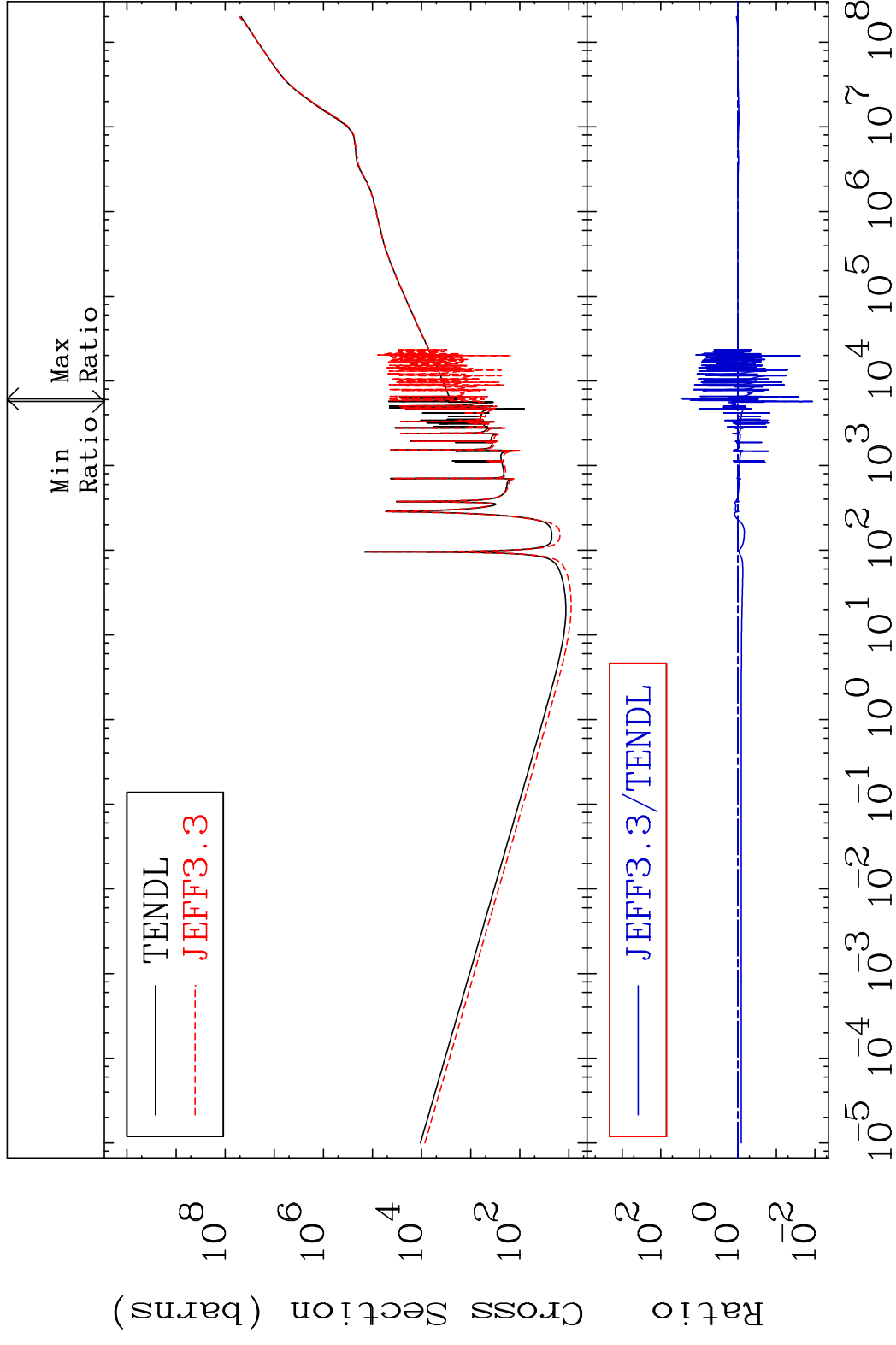
10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

MAT 3131 Total photon (eV-barns) 31-Ga-71  
 Cross Section -99.99 To 9999. %

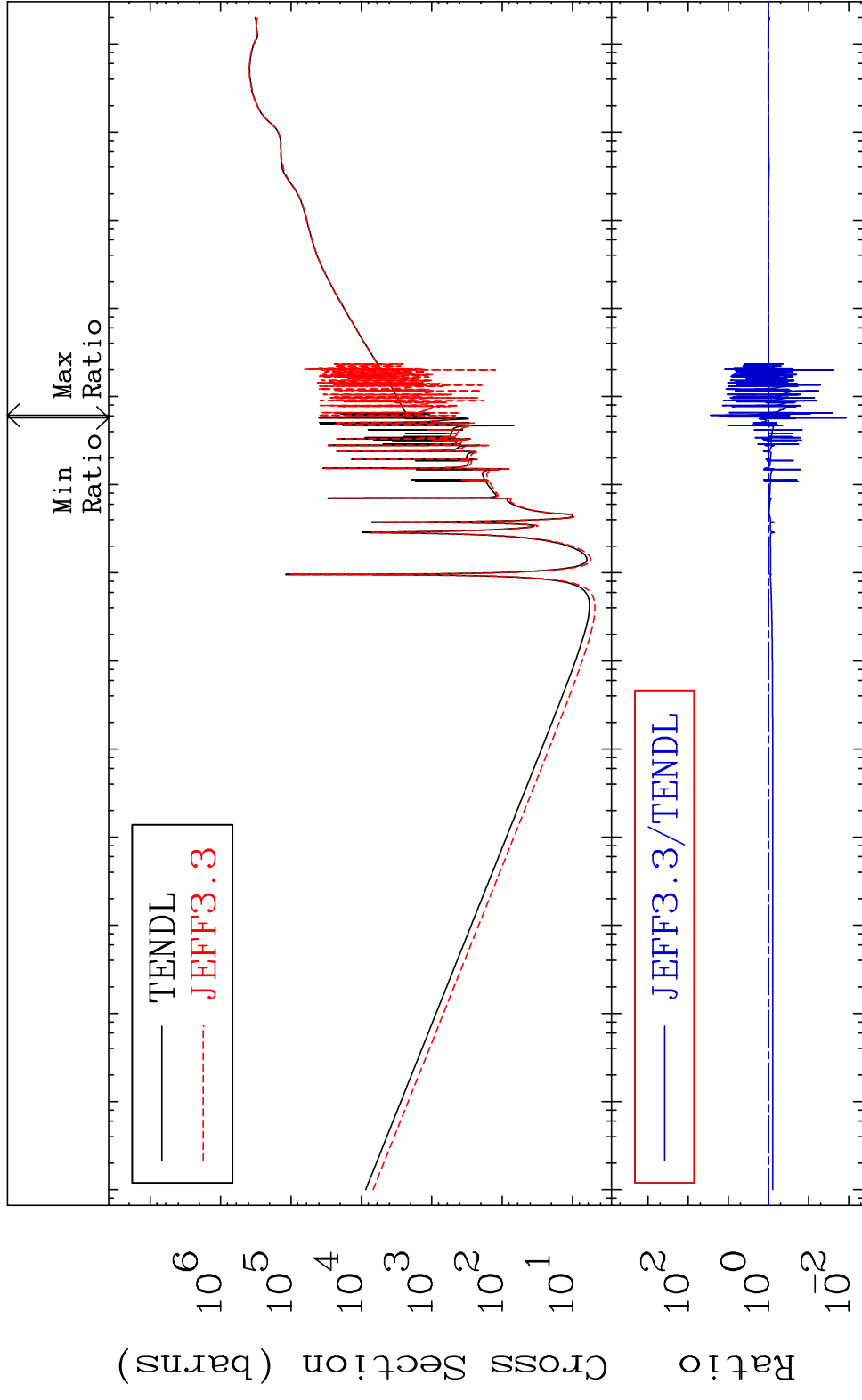


60 Incident Energy (eV) 31-Ga-71

MAT 3131 Total kinematic kerma (high limit) 31-Ga-71  
 Cross Section -98.85 To 2654. %



MAT 3131      Dpa total (eV-barns)      31-Ga-71  
 Cross Section      -98.85 To 2654. %

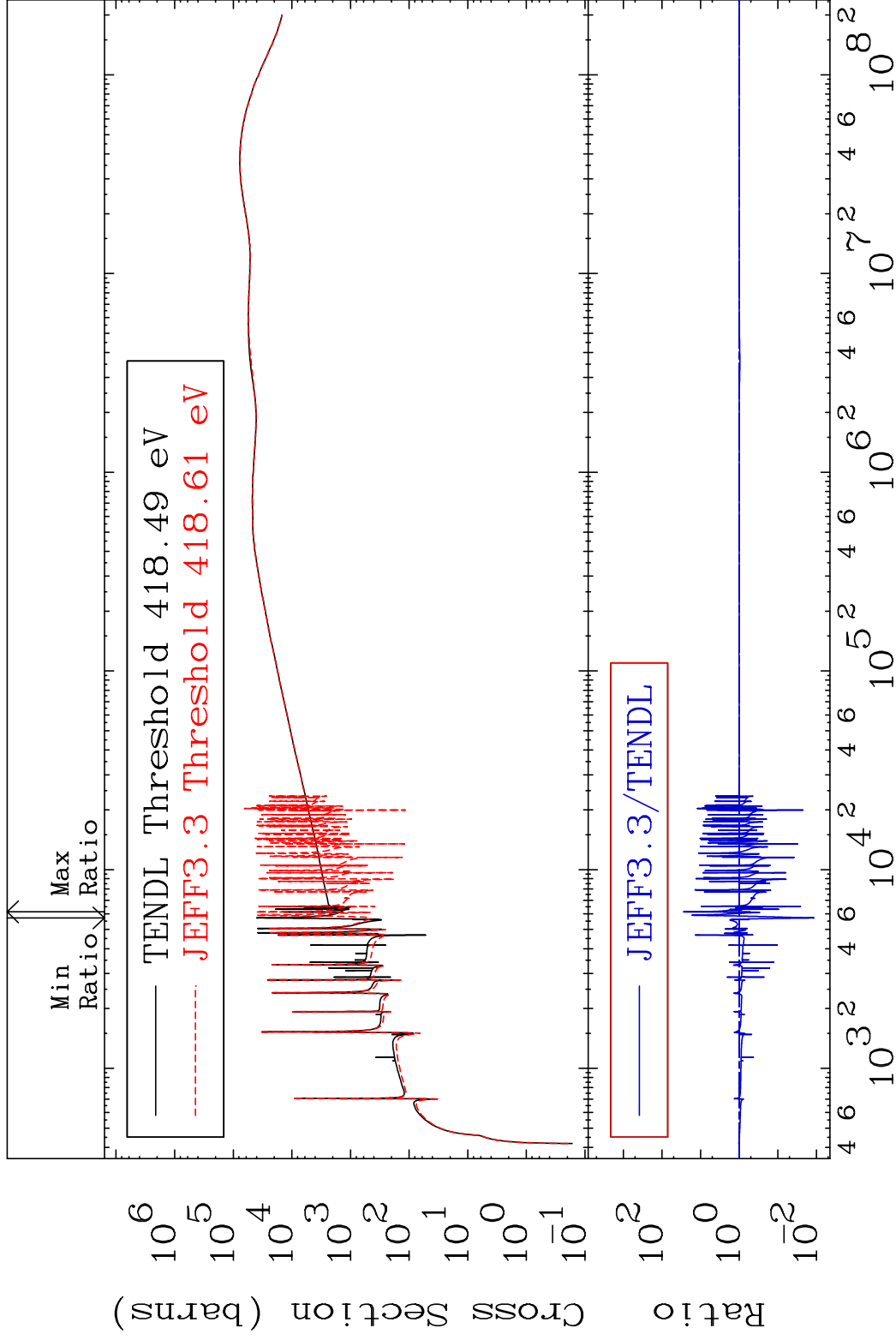


MAT 3131

Dpa elastic (mt2)

31-Ga-71

Cross Section -98.85 To 2649. %

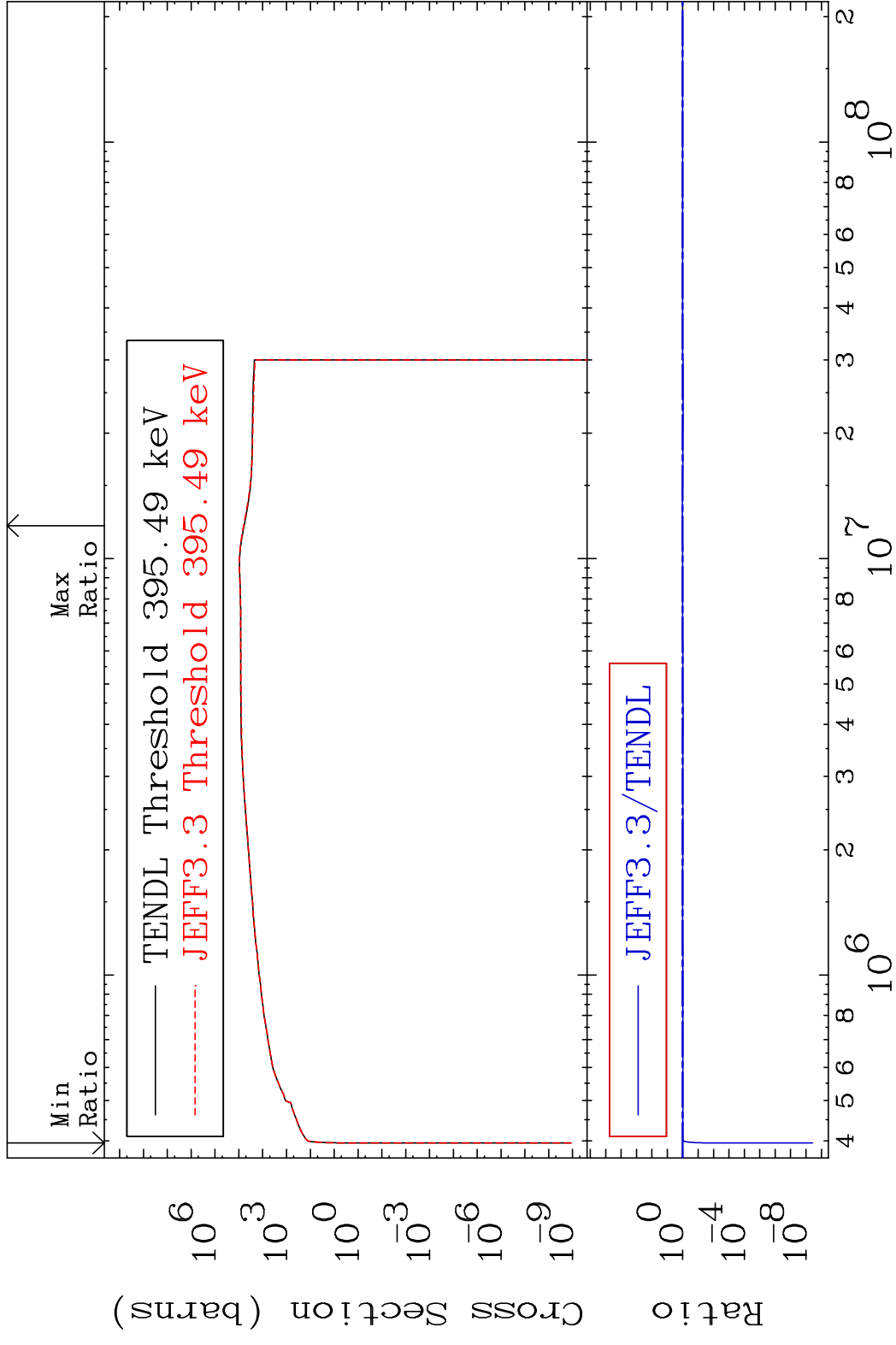


63

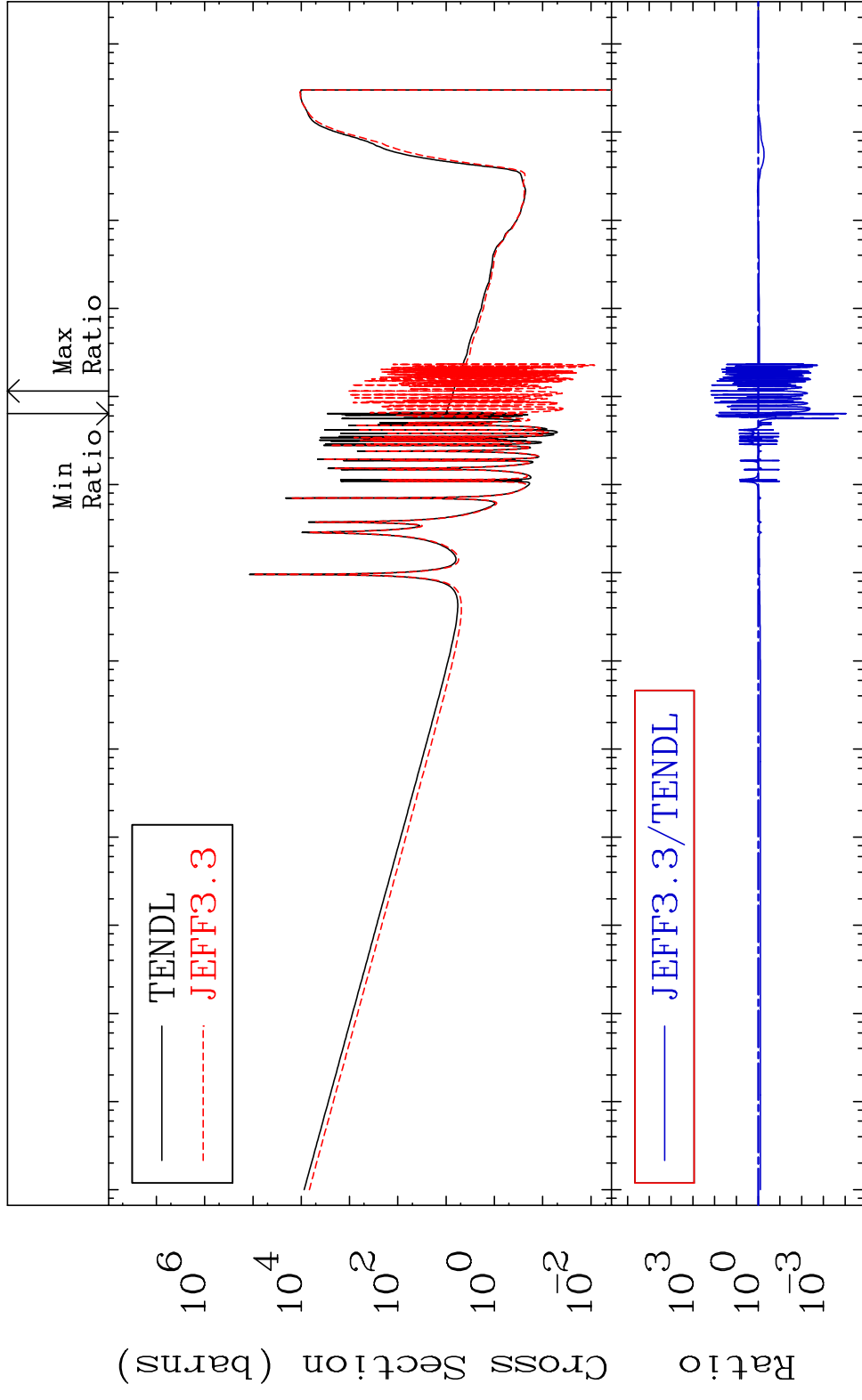
Incident Energy (eV)

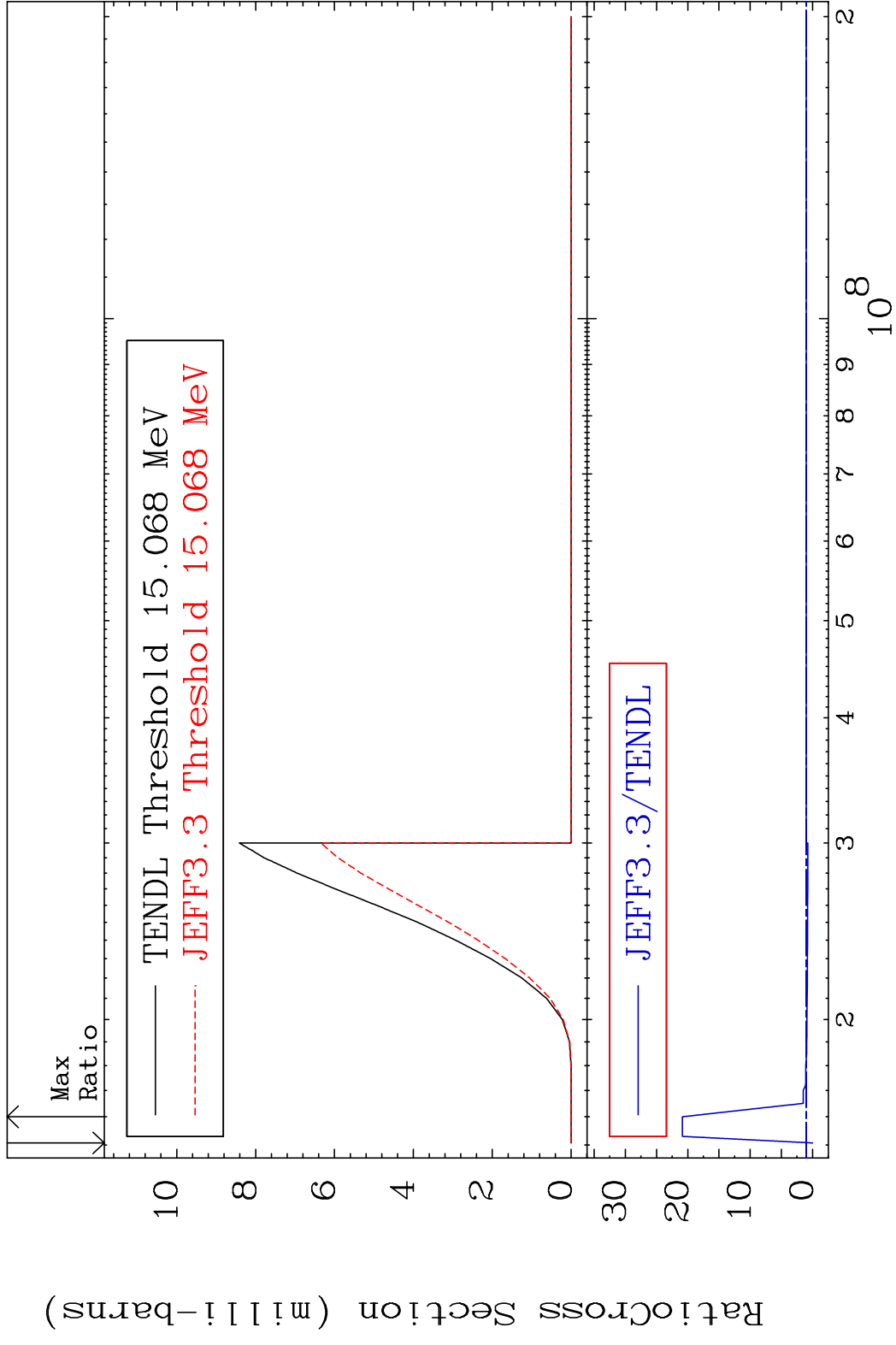
31-Ga-71

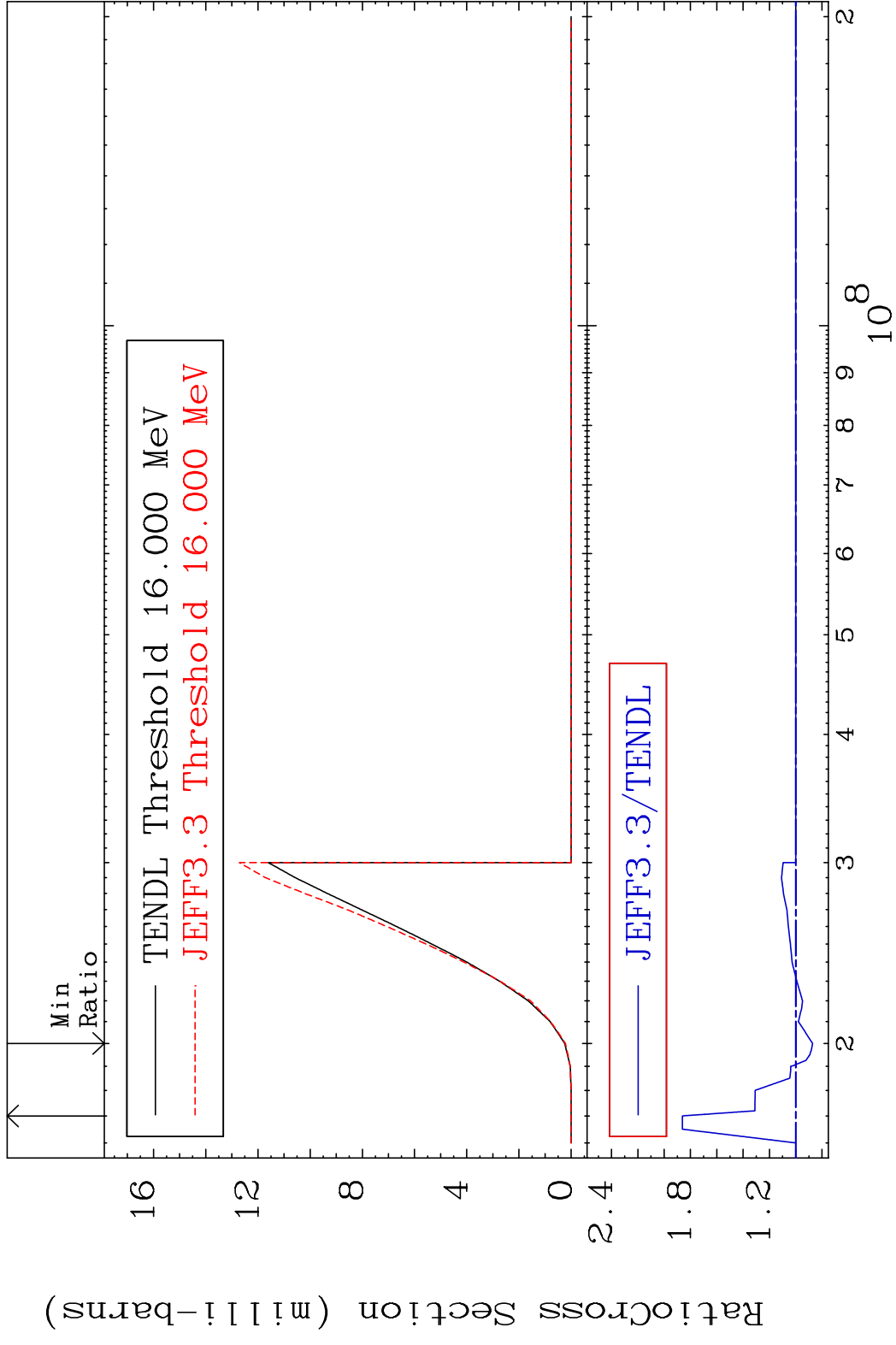
MAT 3131      Dpa inelastic (mt51-91)      31-Ga-71  
 Cross Section      -100.0 To 5.673 %



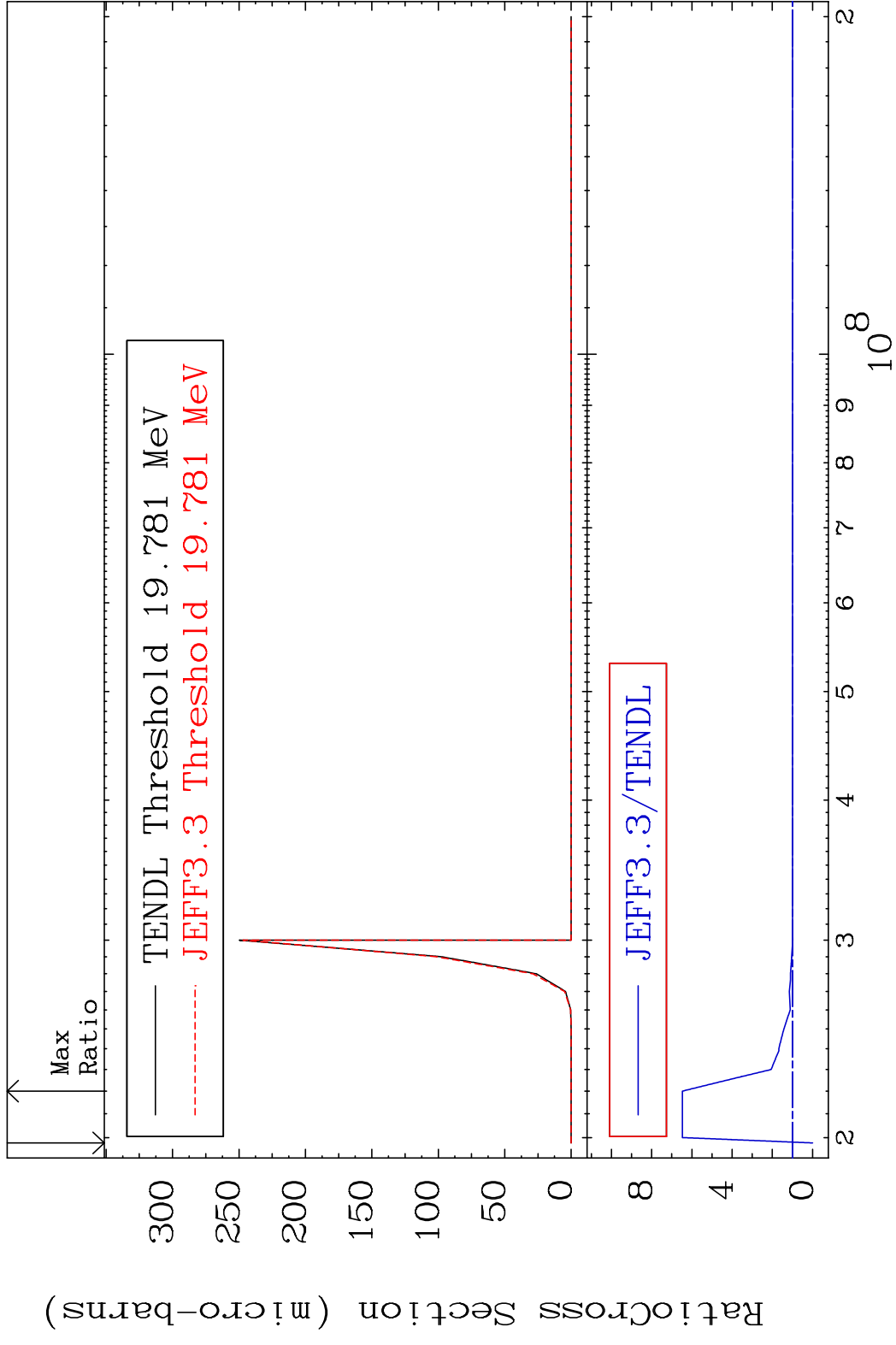
MAT 3131    Dpa disappearance (mt102 -120)    31-Ga-71  
 Cross Section    -99.99 To 9999. %

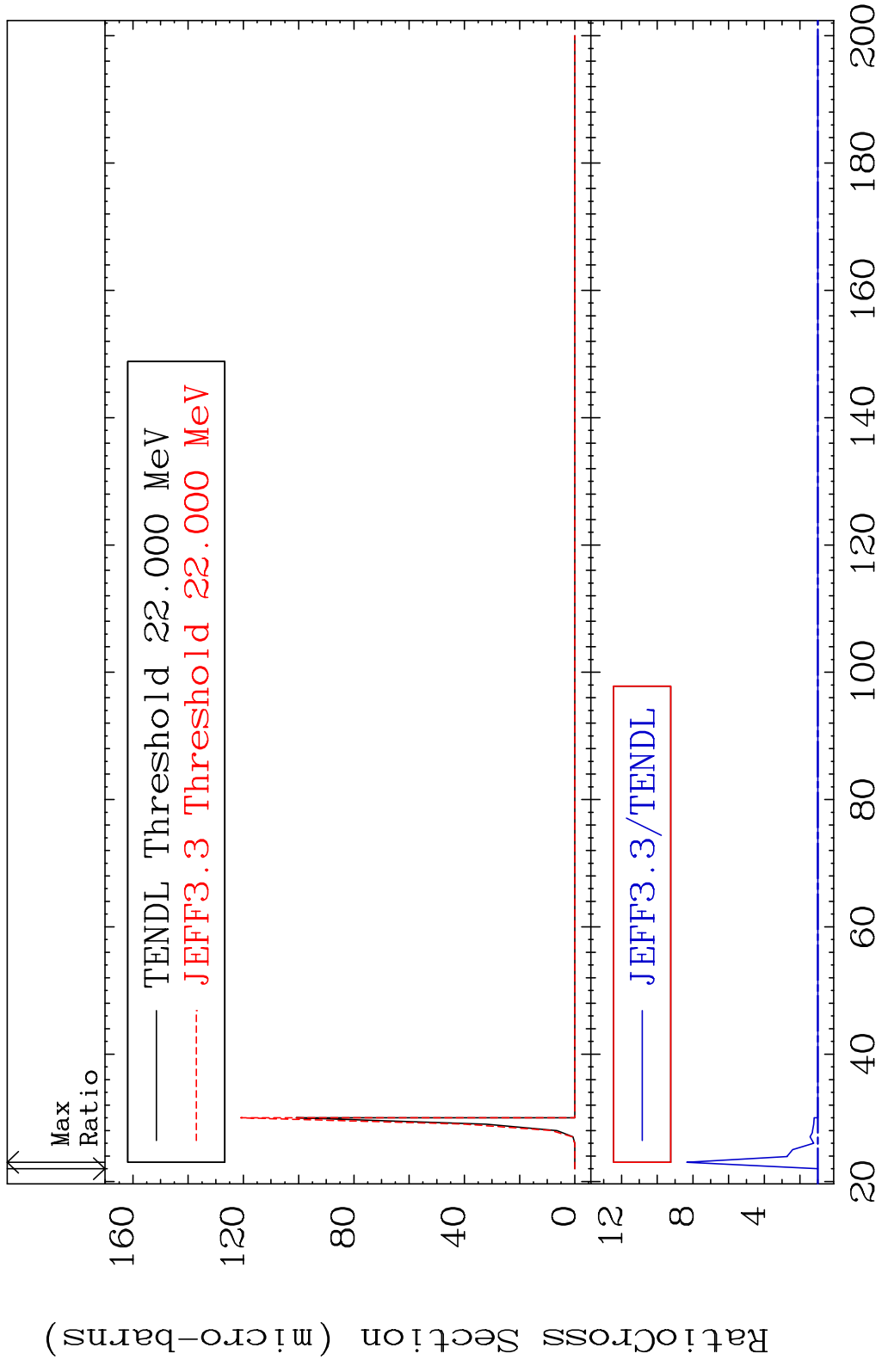




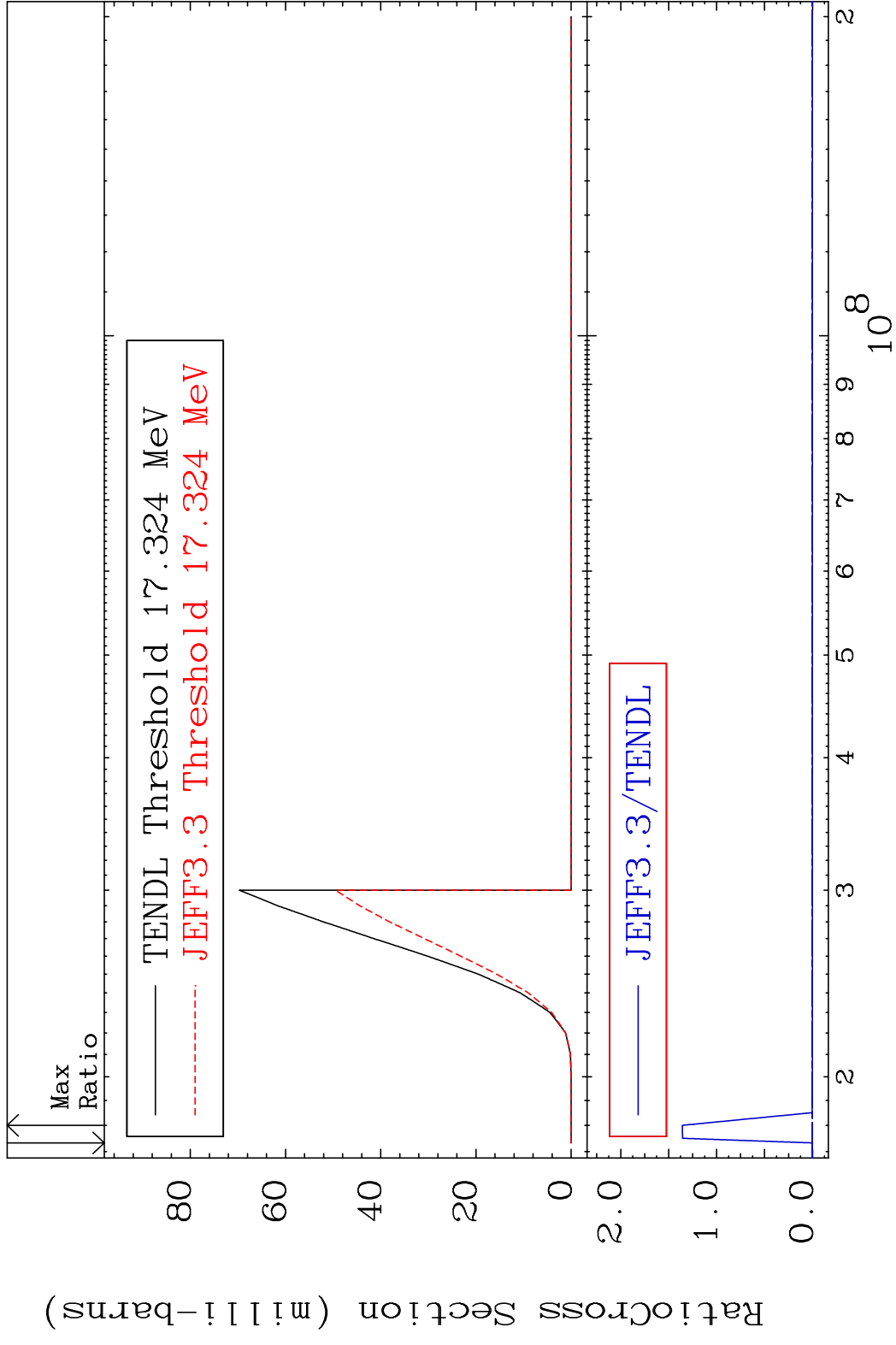


MAT 3131 (n, n') He-3:29-Cu-68g 31-Ga-71  
 Radionuclide Production Cross Section 180.0 dth 547.3 %

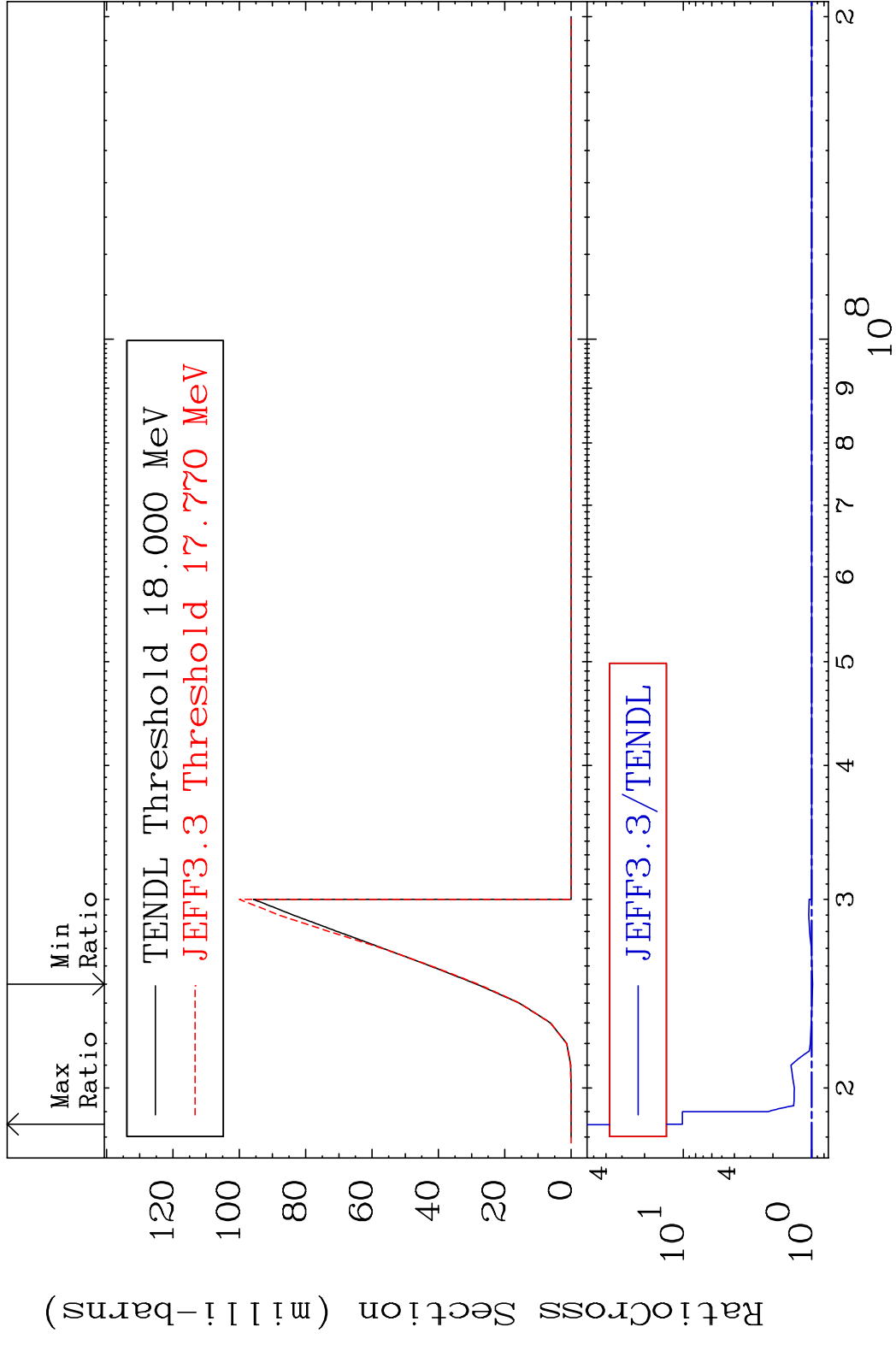




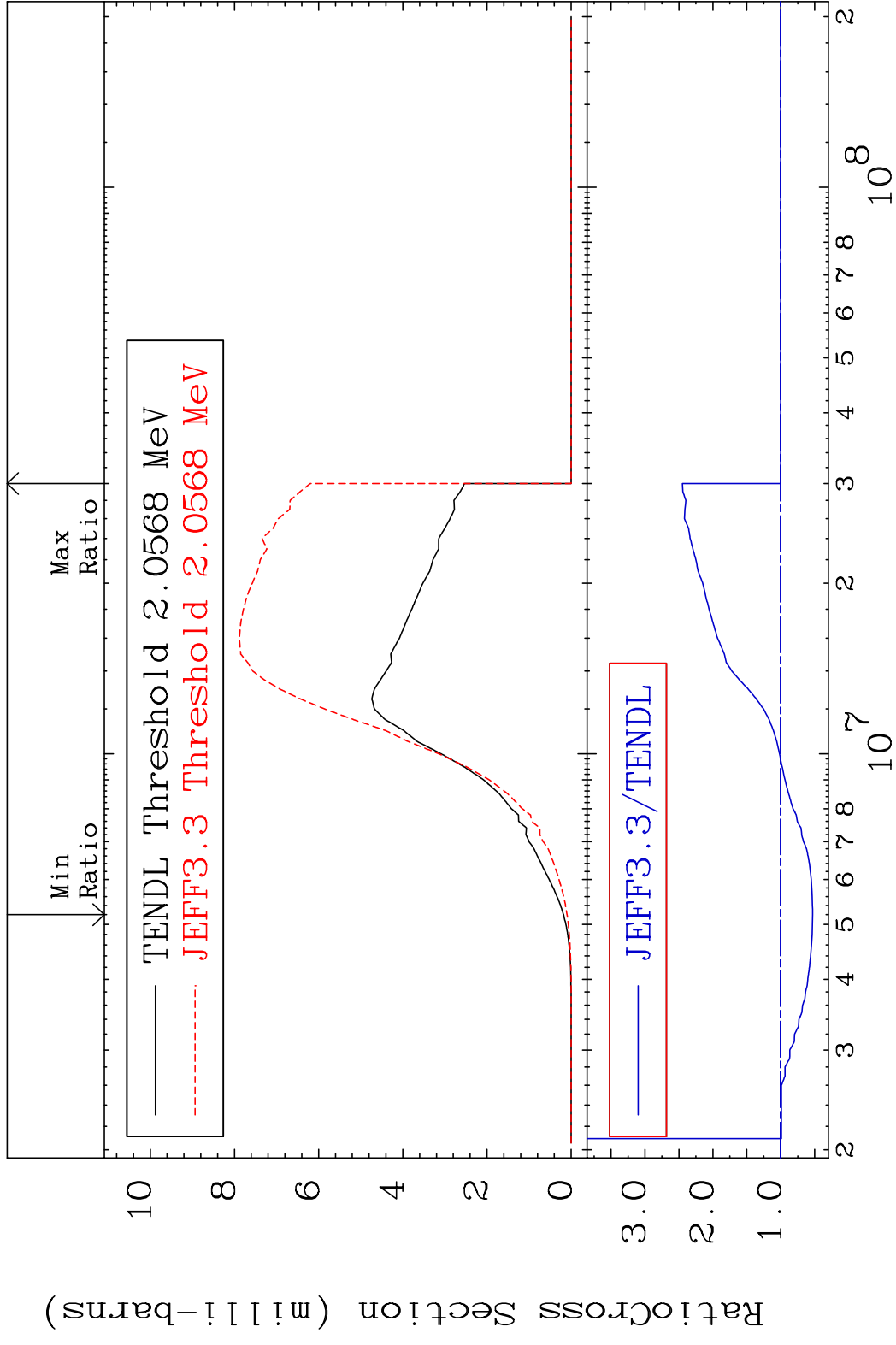
MAT 3131 (n,2n) p:30-Zn-69g 31-Ga-71  
 Radionuclide Production Cross Section 18000 dno 9999. %



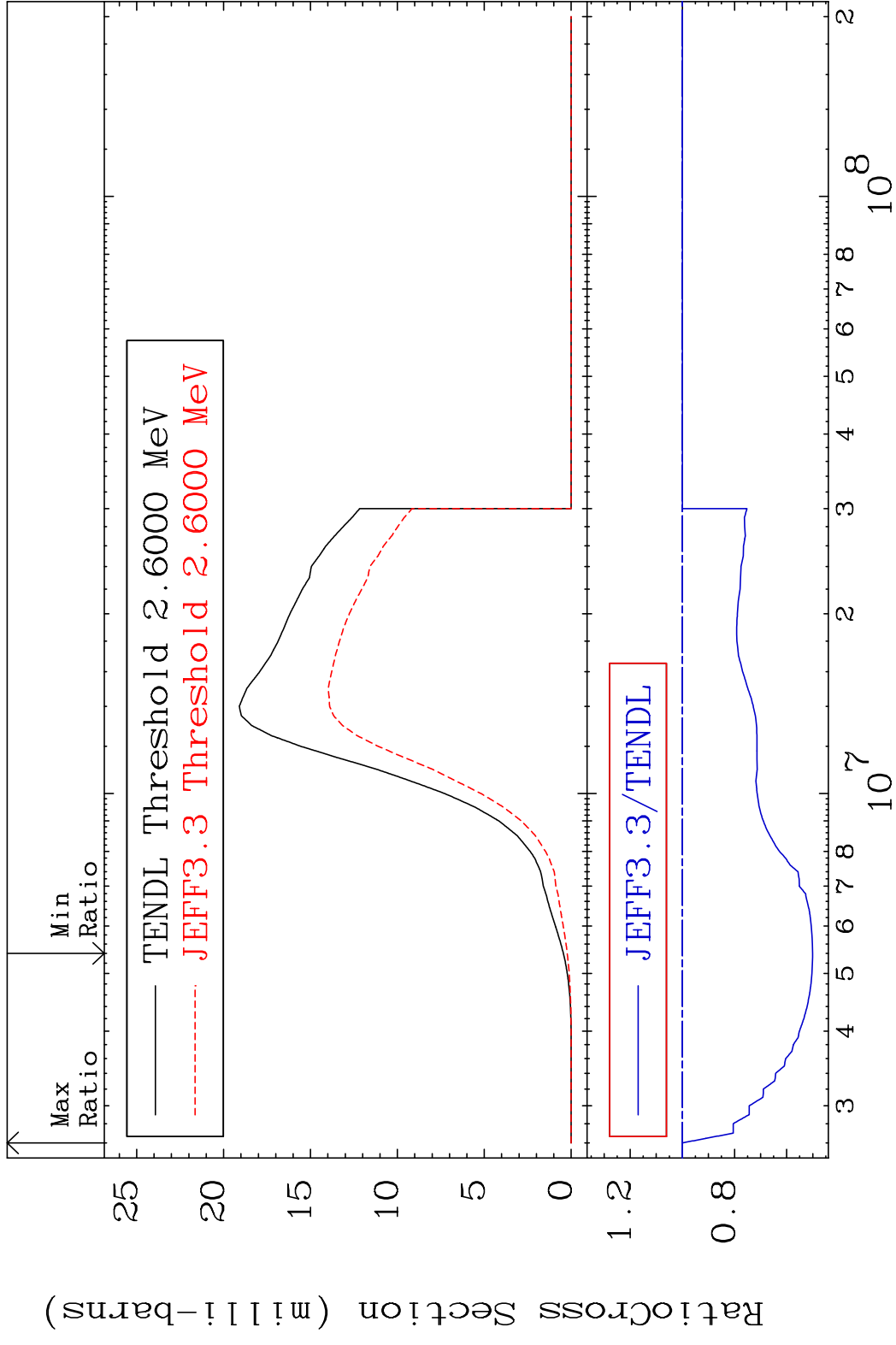
70 Incident Energy (eV) 31-Ga-71



MAT 3131 (n, p):30-Zn-71g 31-Ga-71  
 Radionuclide Production Cross Section 144.9 %

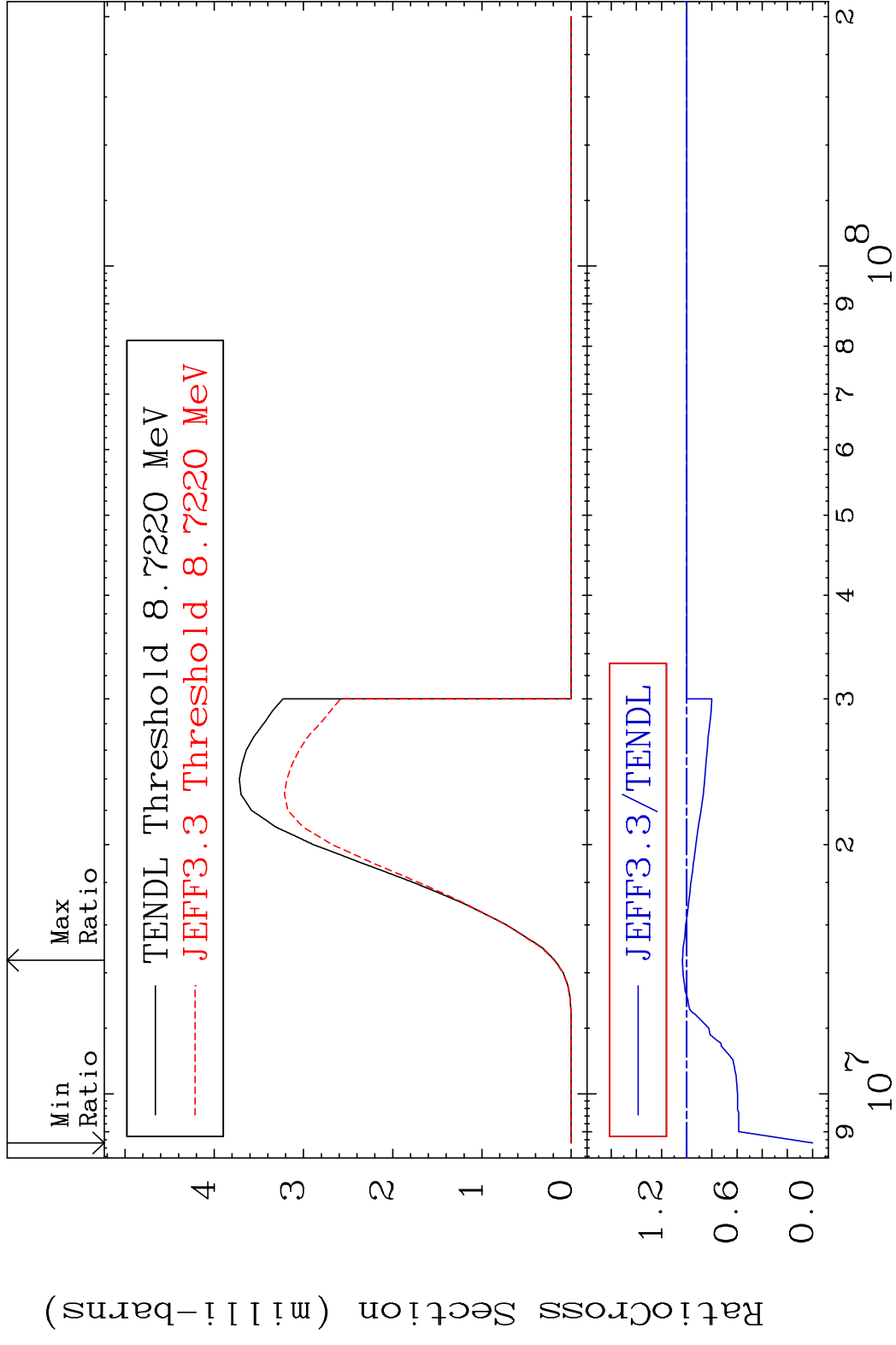


MAT 3131 (n,p):30-Zn-71m1 31-Ga-71  
 Radionuclide Production Cross Section 0.000 %



73 Incident Energy (eV) 31-Ga-71

MAT 3131 (n, t):30-Zn-69g 31-Ga-71  
 Radionuclide Production Cross Section 180.01 dth 3.456 %

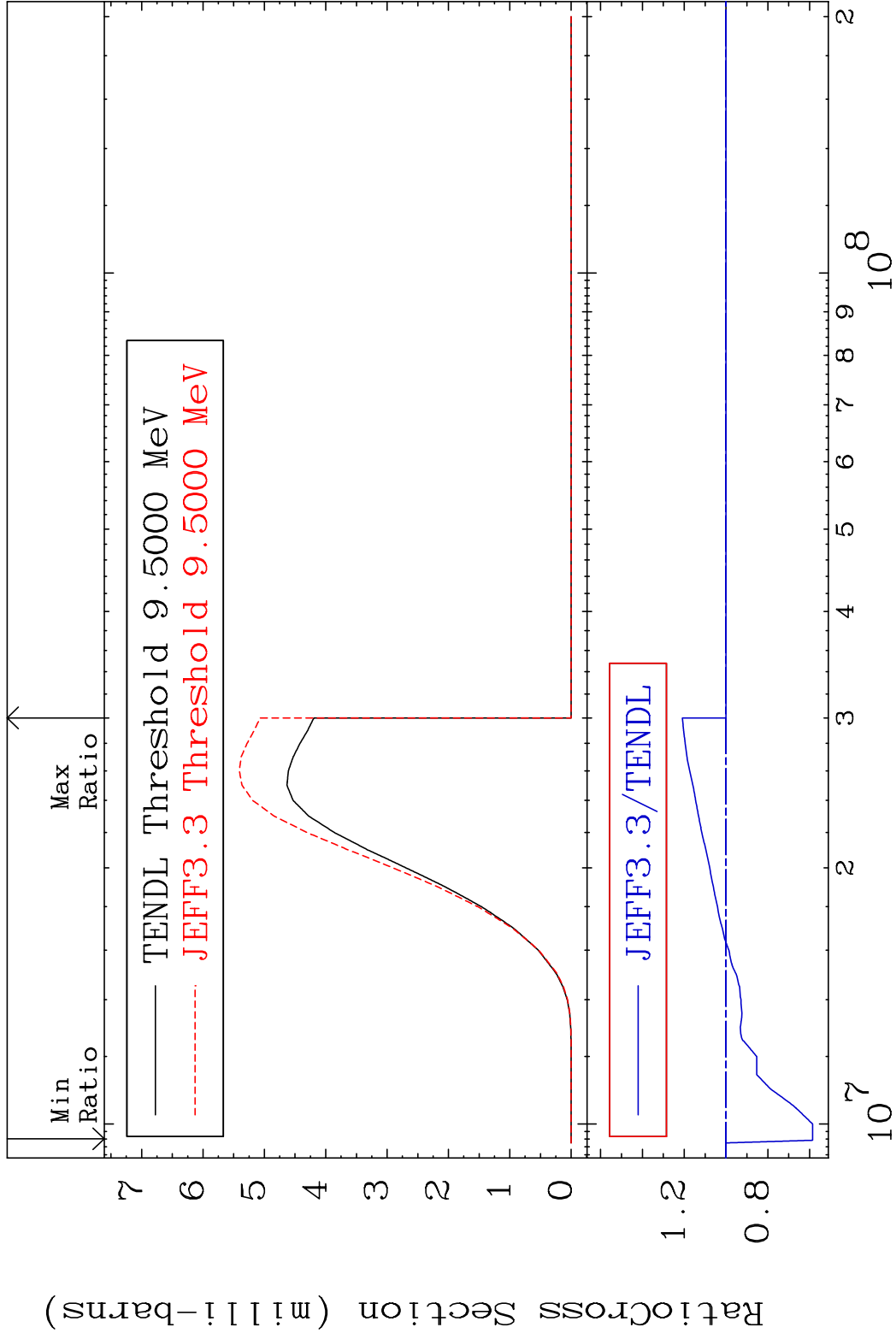


MAT 3131

(n, t):30-Zn-69m1

31-Ga-71

Radionuclide Production Cross Section 20.87 %

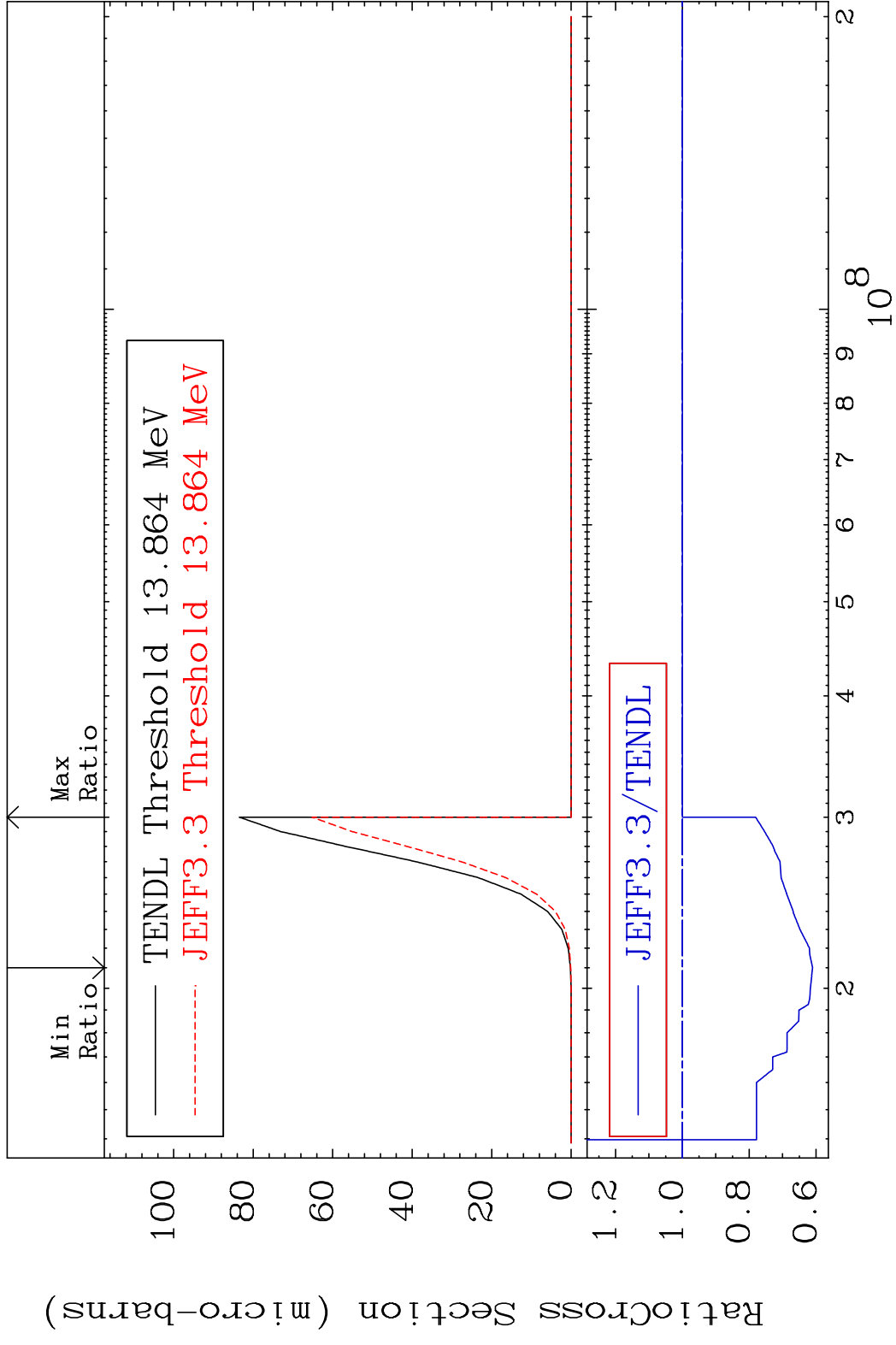


75

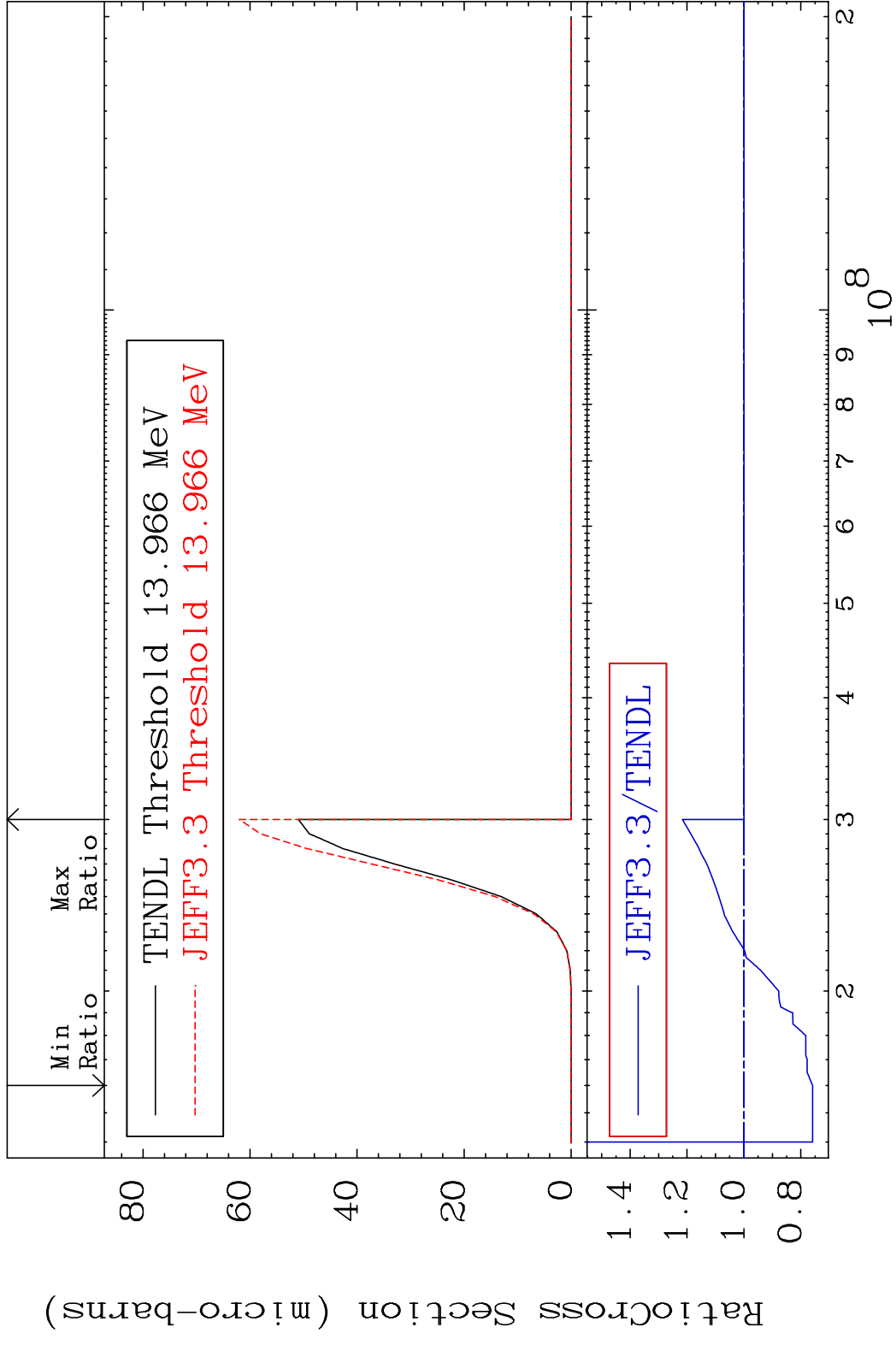
Incident Energy (eV)

31-Ga-71

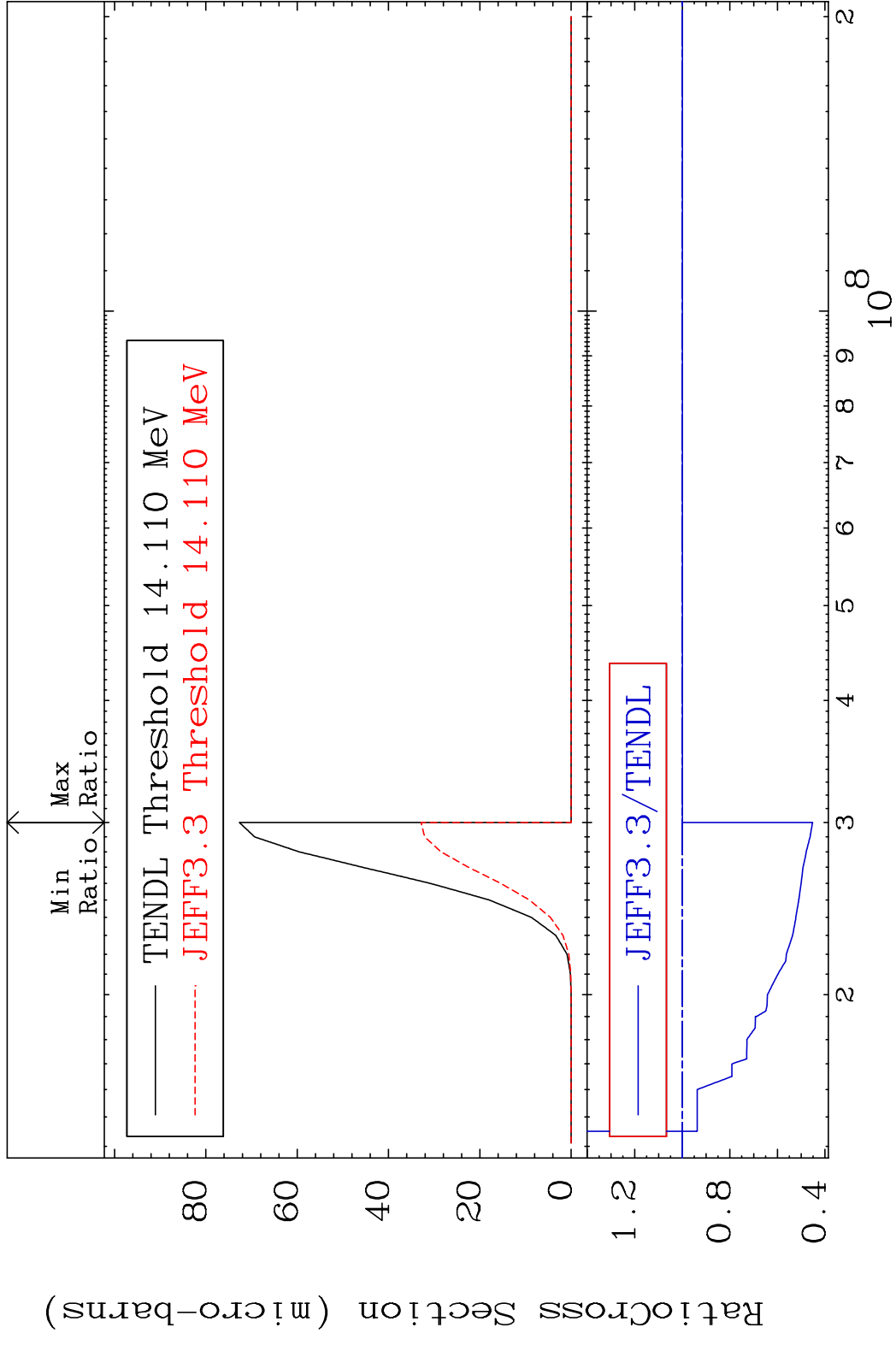
MAT 3131 (n,2p):29-Cu-70g 31-Ga-71  
 Radionuclide Production Cross Section 0.000 %



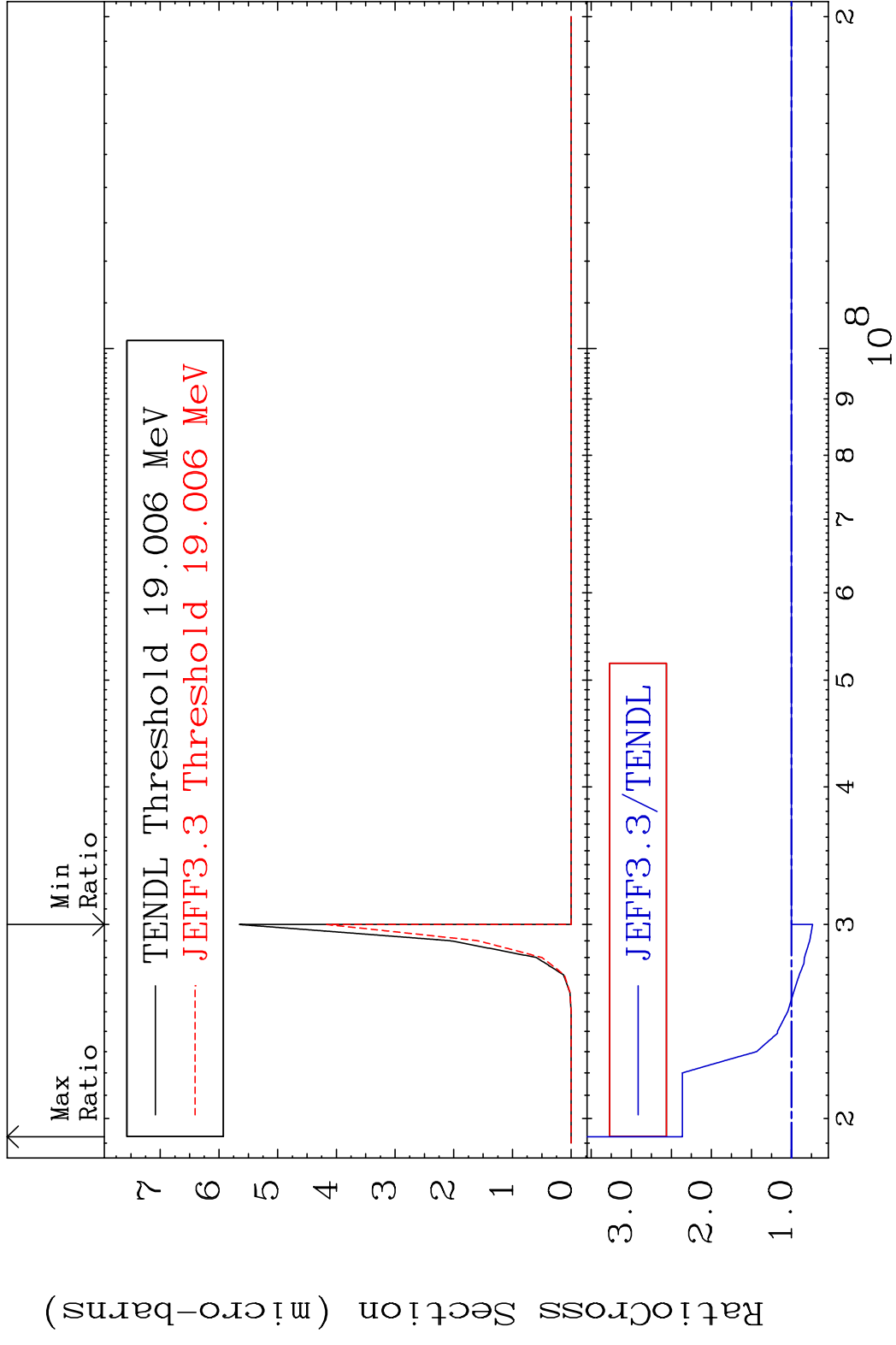
MAT 3131 (n,2p):29-Cu-70m1 31-Ga-71  
 Radionuclide Production Cross Section 21.65 %



MAT 3131 (n,2p):29-Cu-70m3 31-Ga-71  
 Radionuclide Production Cross Section 0.000 %



MAT 3131 (n, p) t:29-Cu-68g 31-Ga-71  
 Radionuclide Production Cross Section 136.3 %



MAT 3131 (n,p) t:29-Cu-68m3 31-Ga-71  
 Radionuclide Production Cross Section 180c/dto 460.2 %

