

Program Complot  
(Version 2021-1)

by

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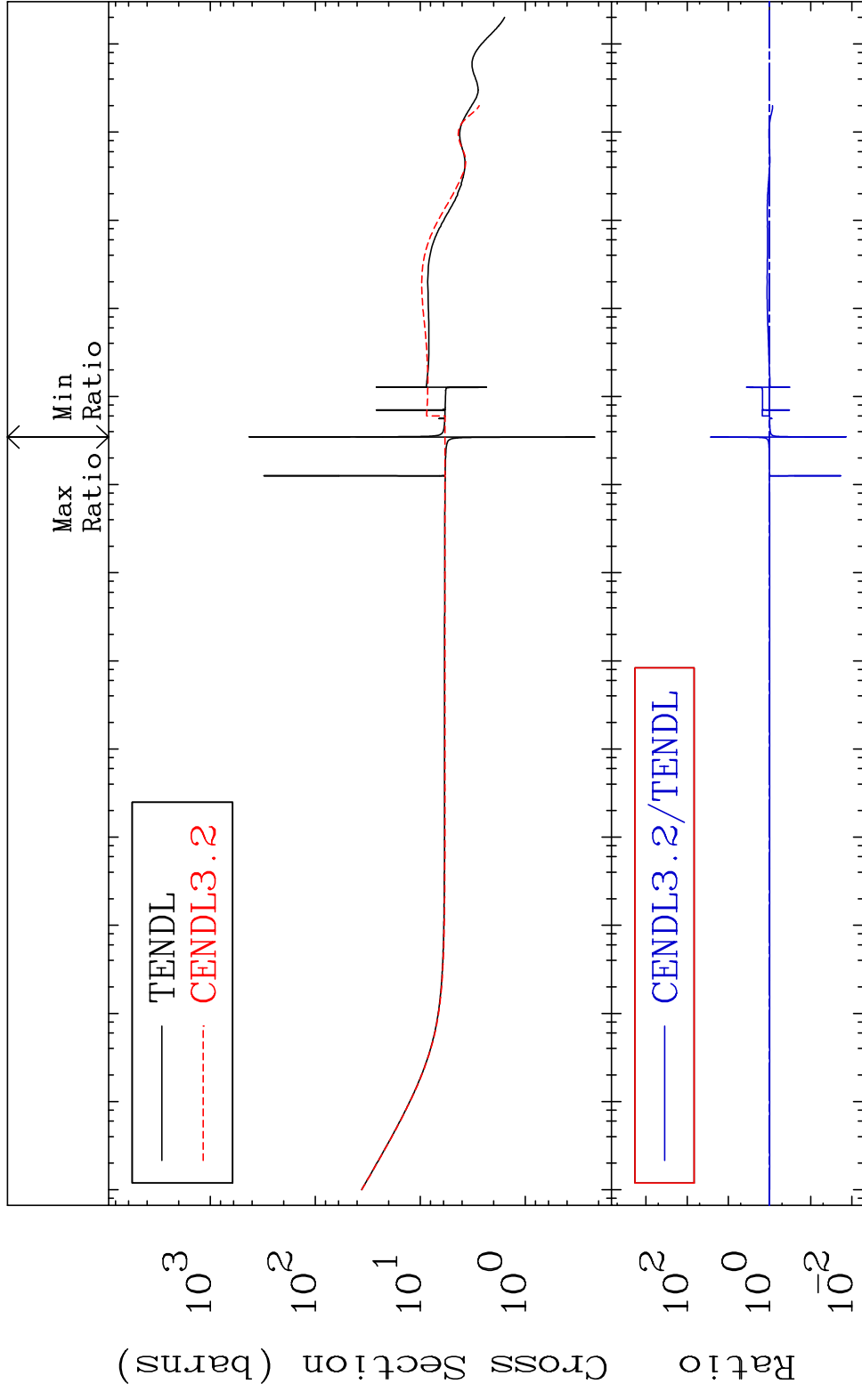
Press Mouse Button to Start

MAT 3843

38-Sr-90

Total

Cross Section -98.64 To 2576. %



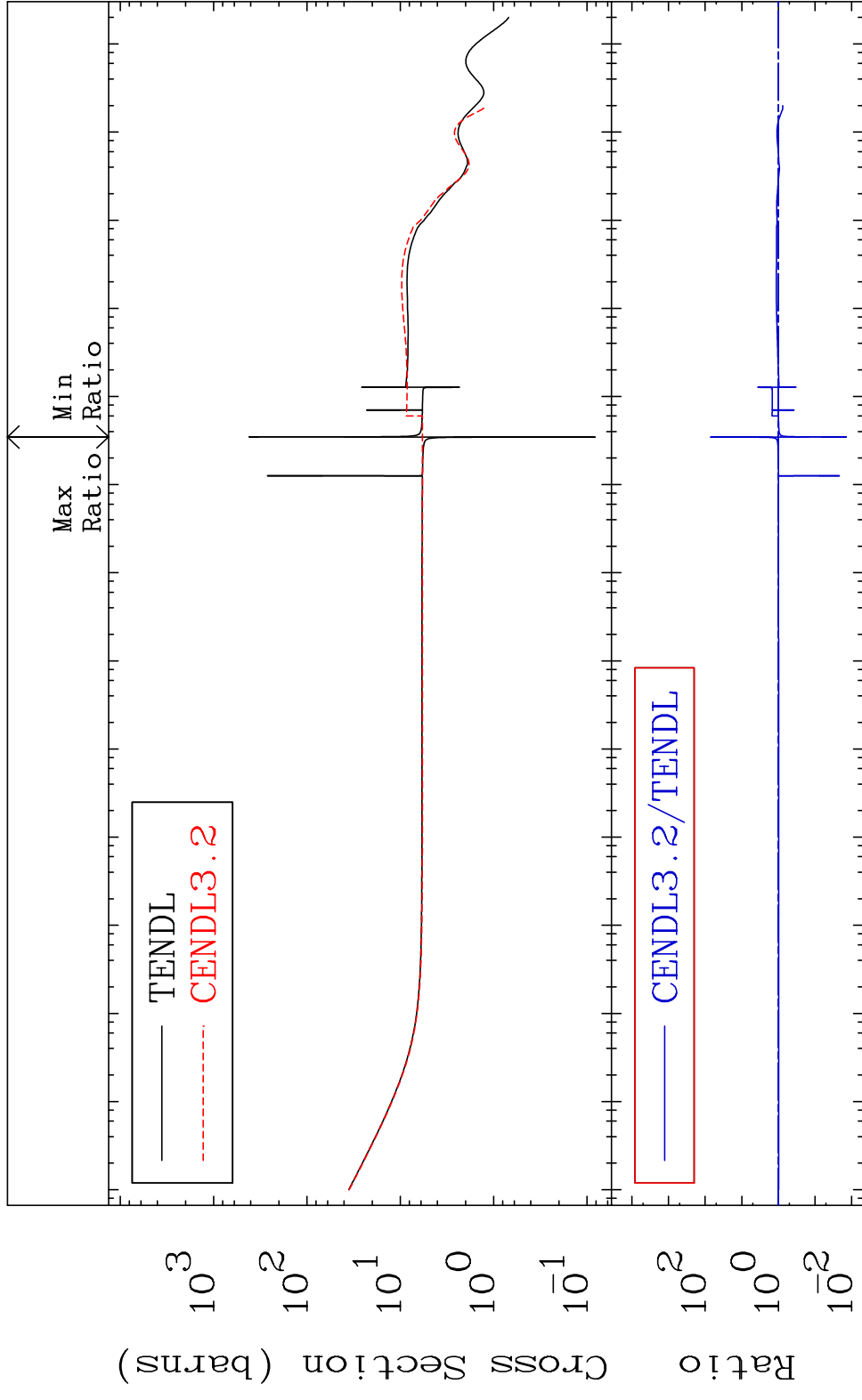
1

Incident Energy (eV)

38-Sr-90

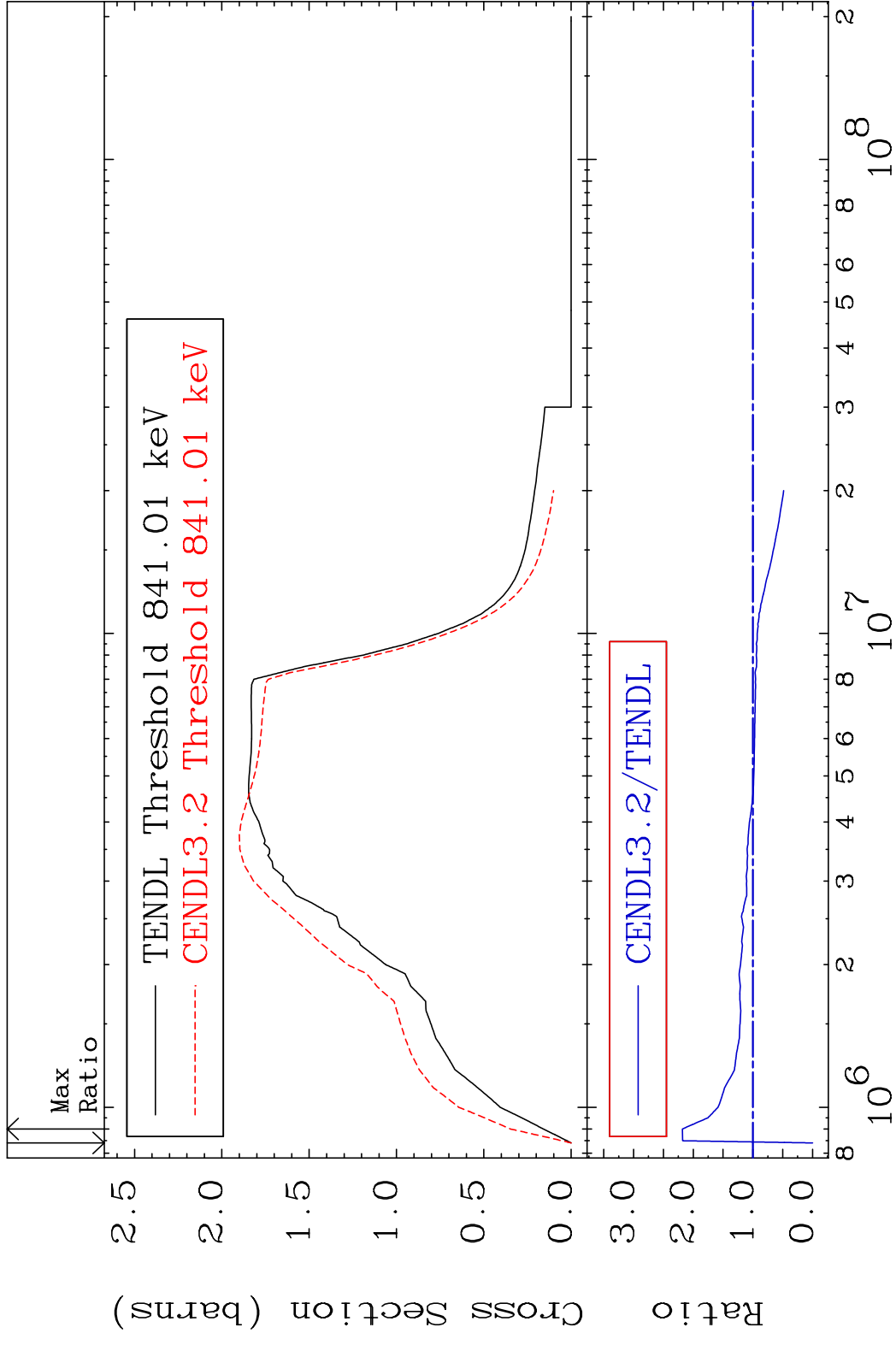
MAT 3843

Elastic Cross Section -98.60 To 6954. %  
38-Sr-90



2 Incident Energy (eV) 38-Sr-90

MAT 3843 Inelastic 38-Sr-90  
 Cross Section -100.0 To 118.2 %



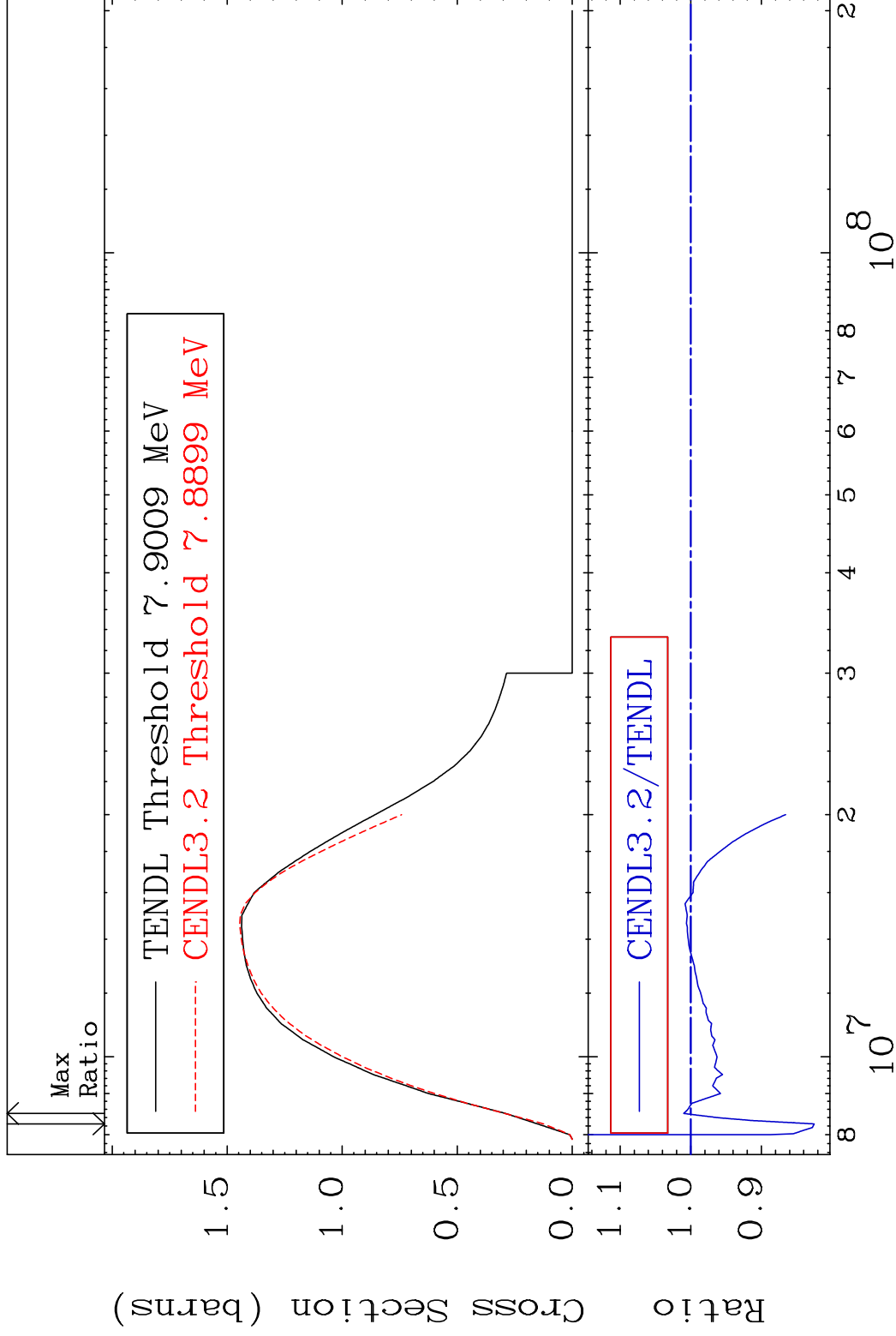
3 3 8 10<sup>6</sup> 2 3 4 5 6 8 10<sup>8</sup> 2 38-Sr-90

MAT 3843

(n,2n)

38-Sr-90

Cross Section -17.47 To 1.003 %



4

Incident Energy (eV)

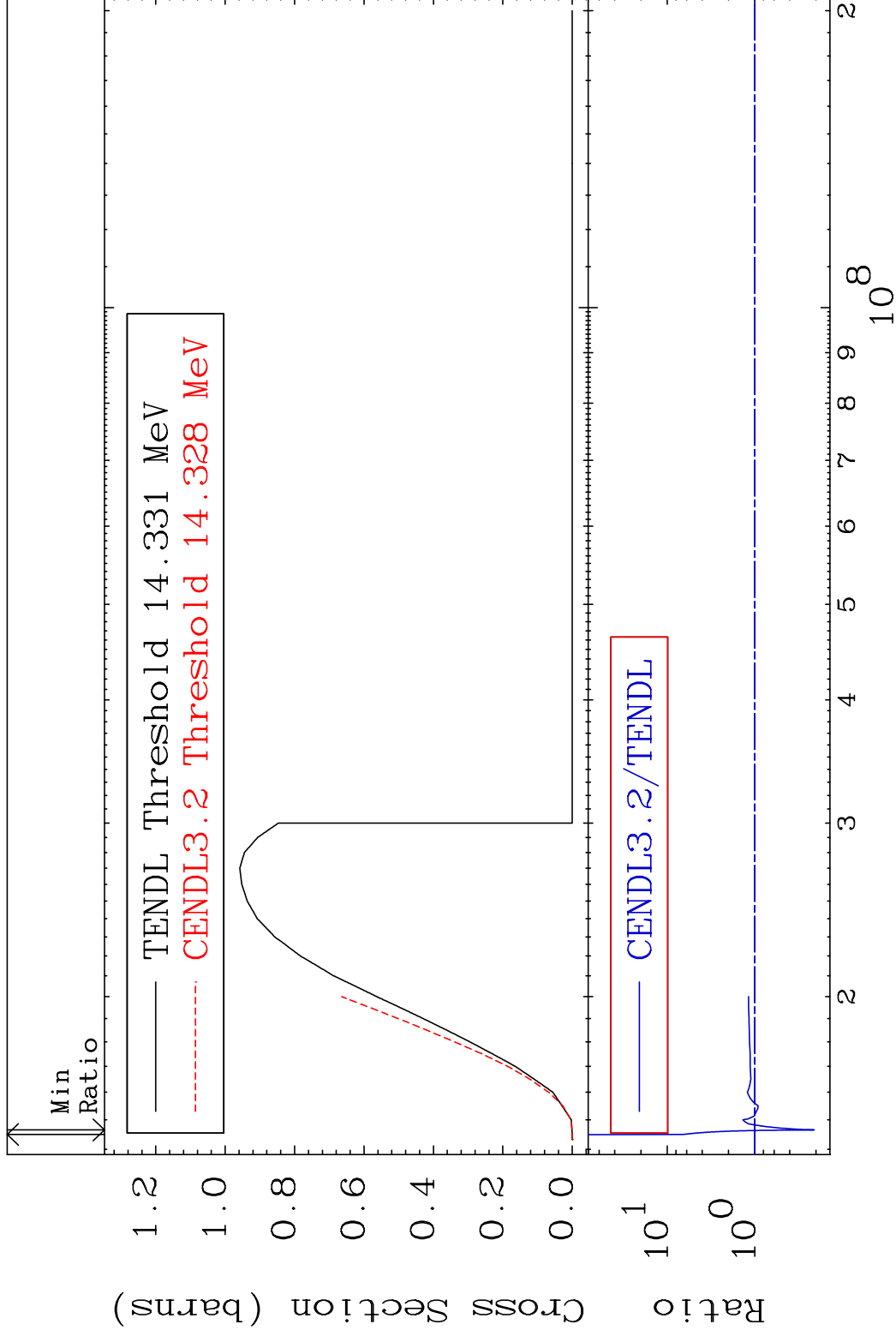
38-Sr-90

MAT 3843

(n,3n)

38-Sr-90

Cross Section -78.98 To 551.0 %

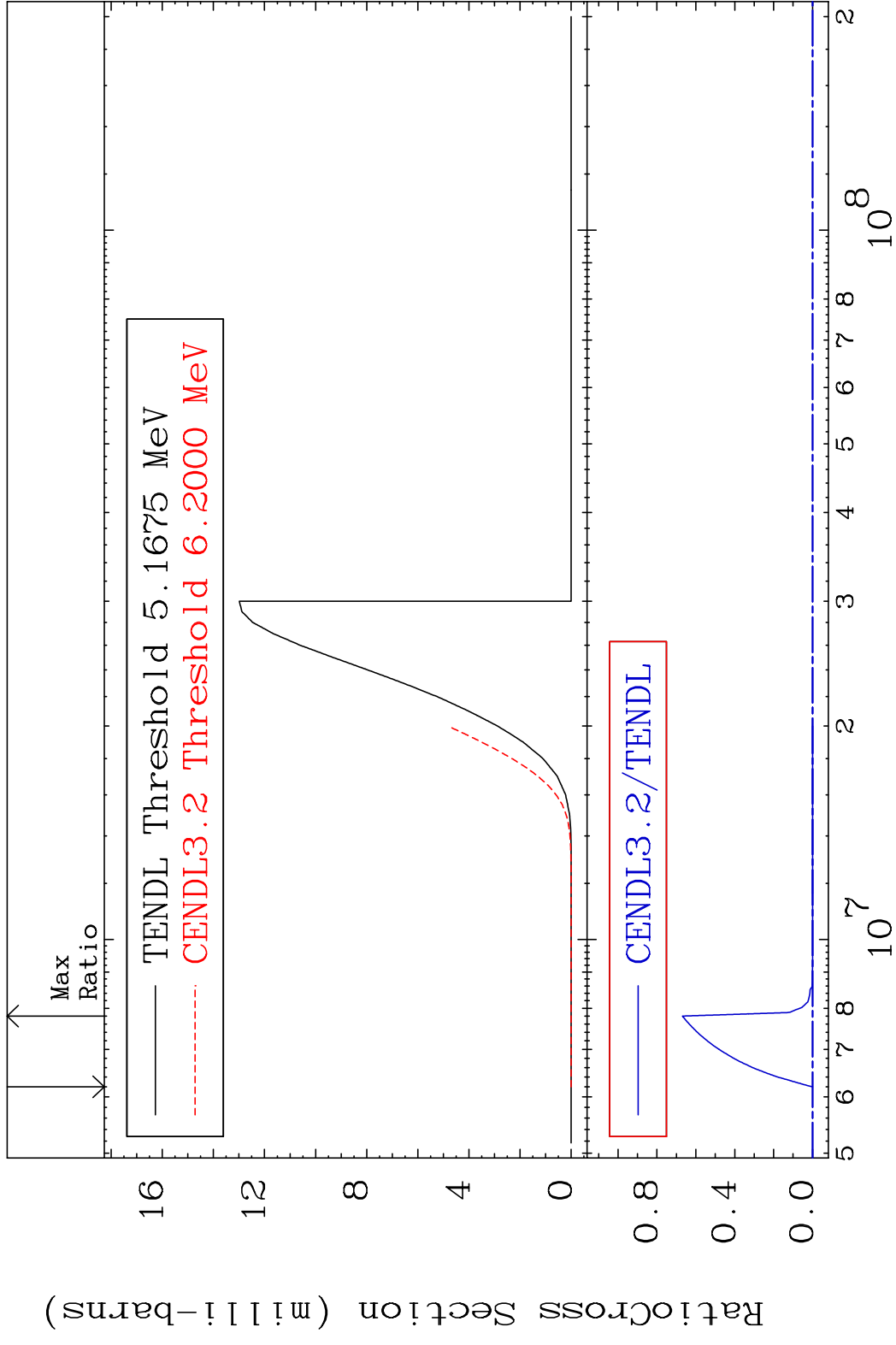


5

Incident Energy (eV)

38-Sr-90

MAT 3843 (n, n')  $\alpha$  38-Sr-90  
 Cross Section -100.0 To 9999. %

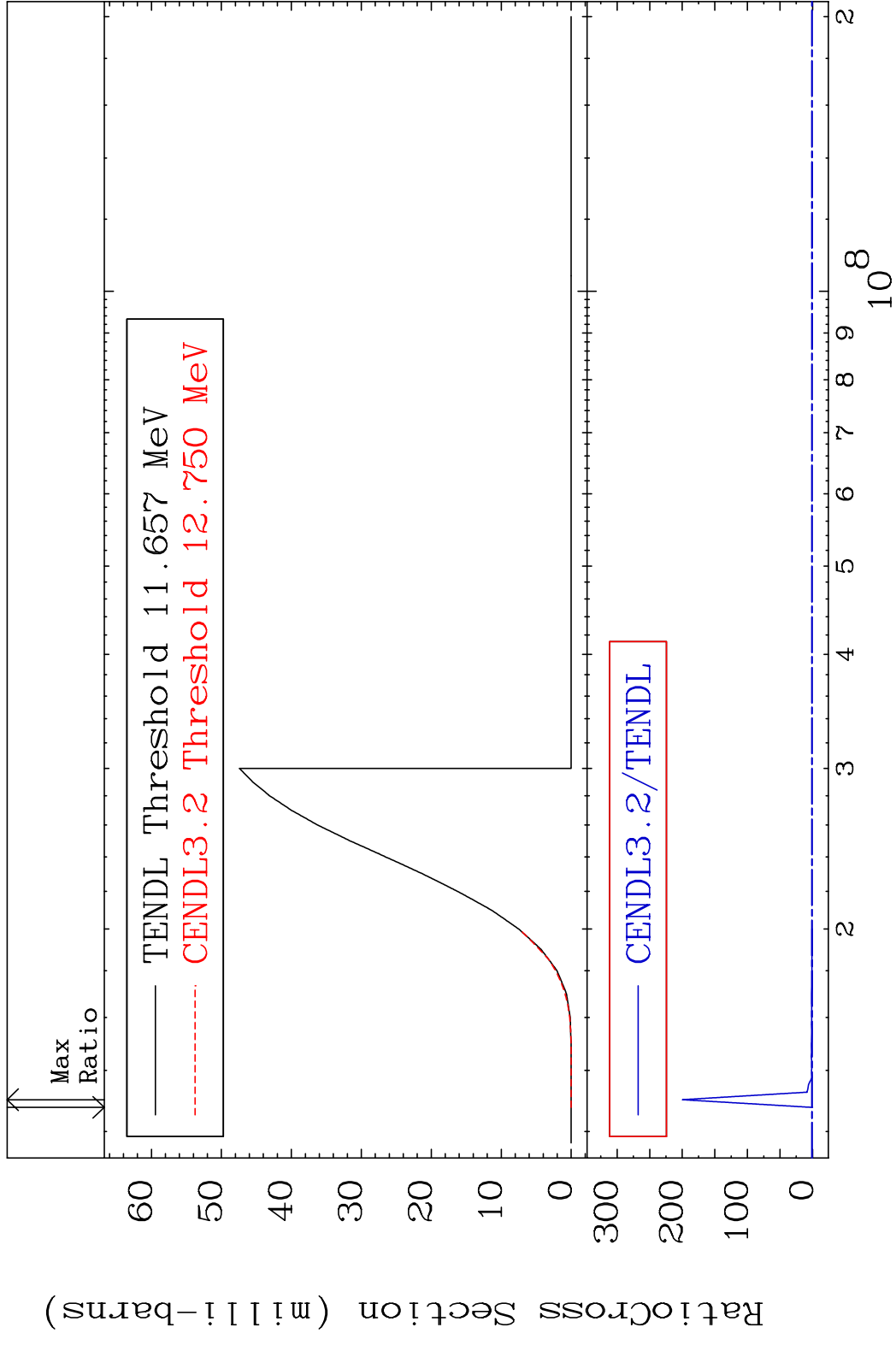


MAT 3843

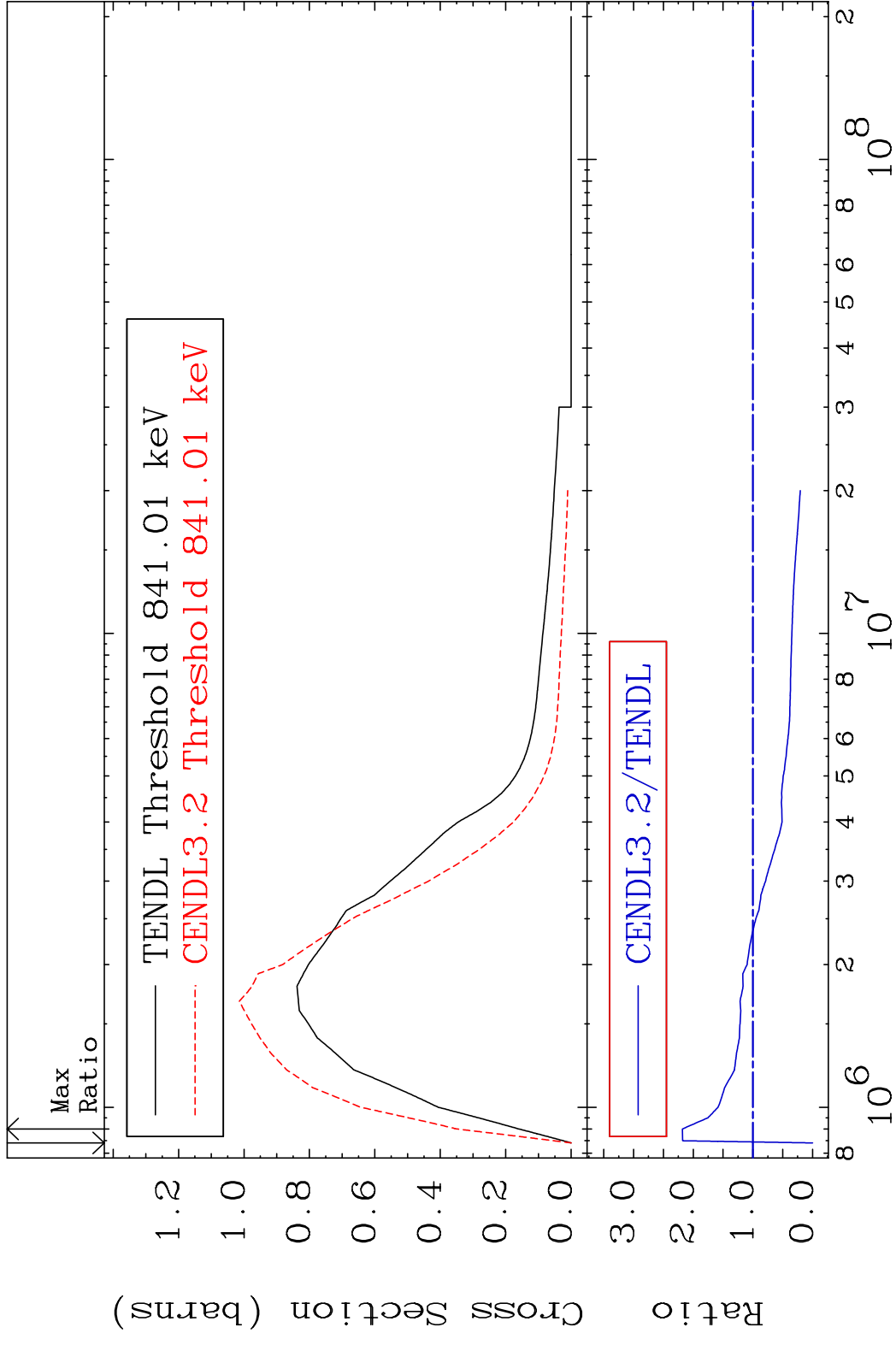
(n, n') p

38-Sr-90

Cross Section -100.0 To 9999. %



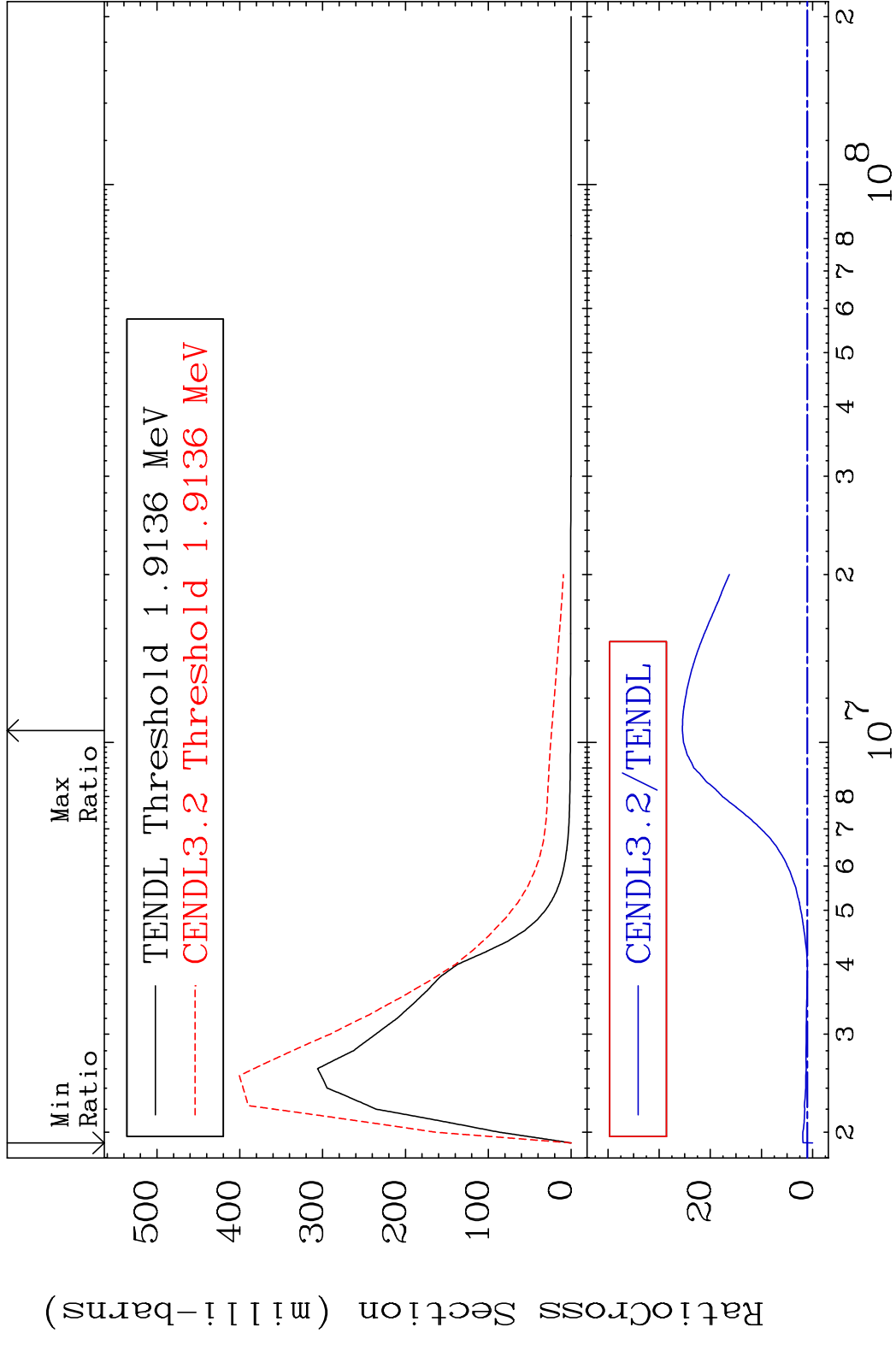
MAT 3843 MT= 51 (n, n') Level 38-Sr-90  
 Cross Section -100.0 To 118.2 %



8 Incident Energy (eV) 38-Sr-90

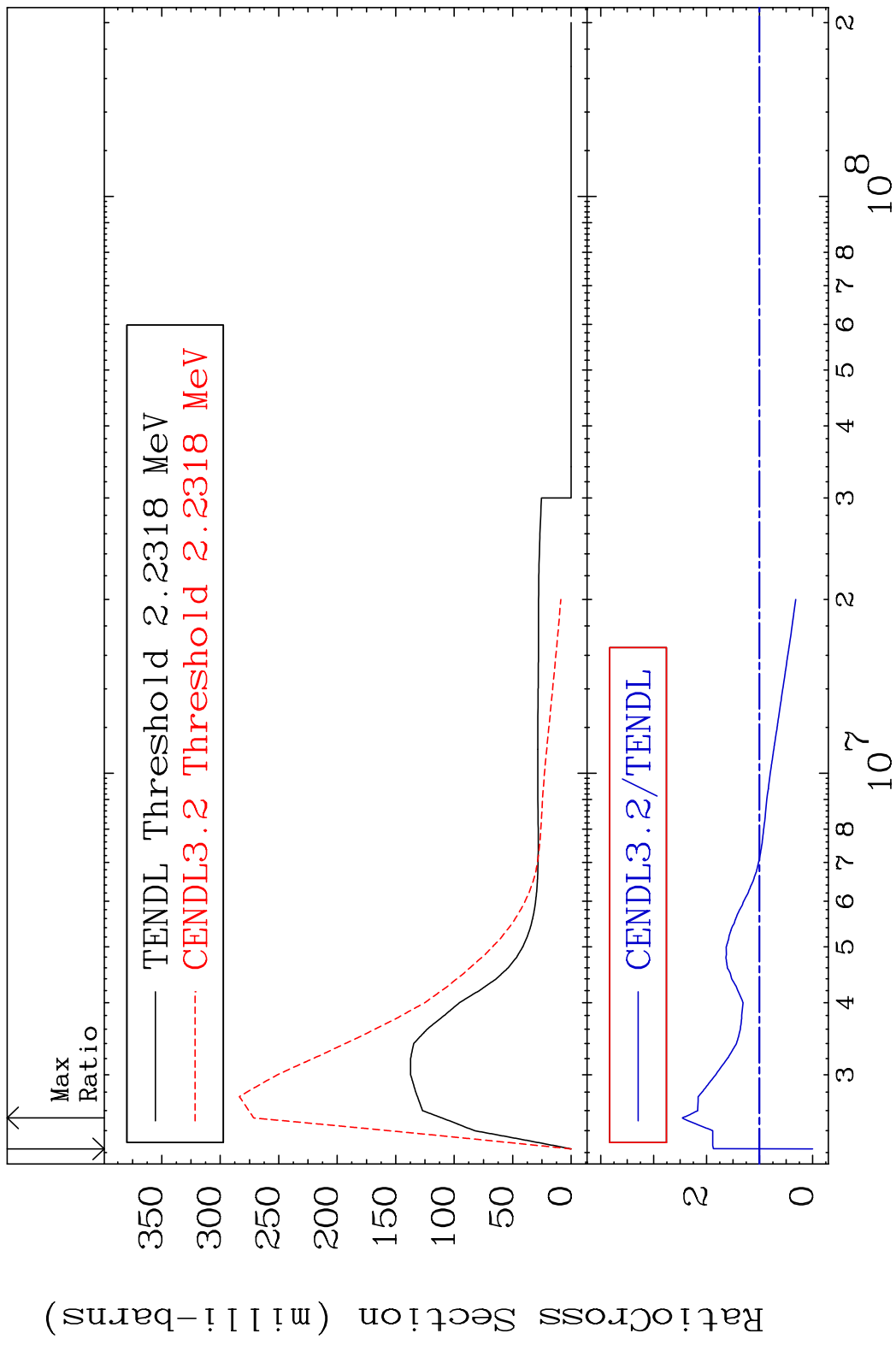


MAT 3843 MT= 53 (n, n') Level 38-Sr-90  
 Cross Section -100.0 To 2447. %

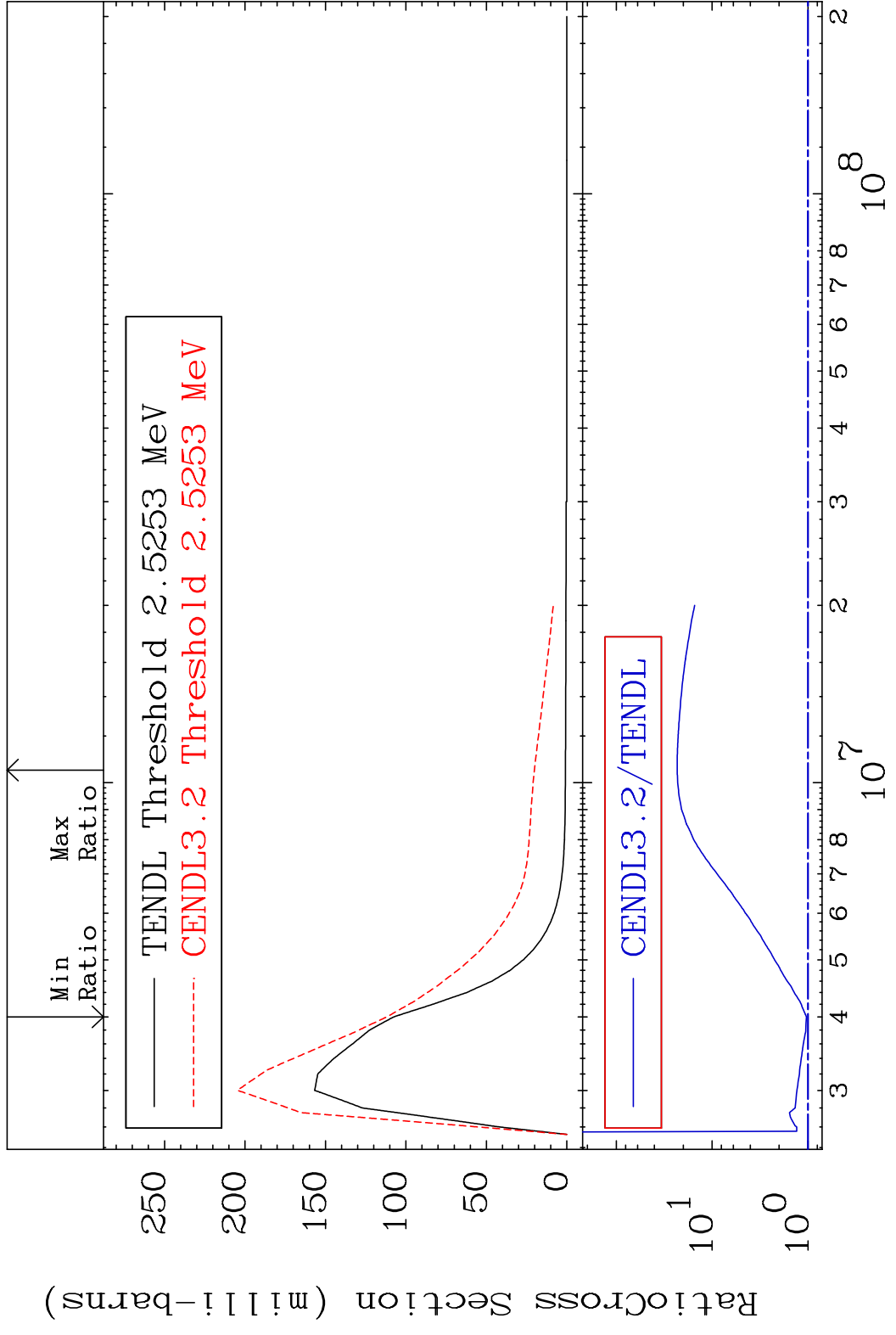


10 10 3 4 5 6 7 8 10 2 38-Sr-90

MAT 3843 MT= 54 (n, n') Level 38-Sr-90  
 Cross Section -100.0 To 145.8 %



MAT 3843 MT= 55 (n, n') Level 38-Sr-90  
 Cross Section 3.938 To 2215. %

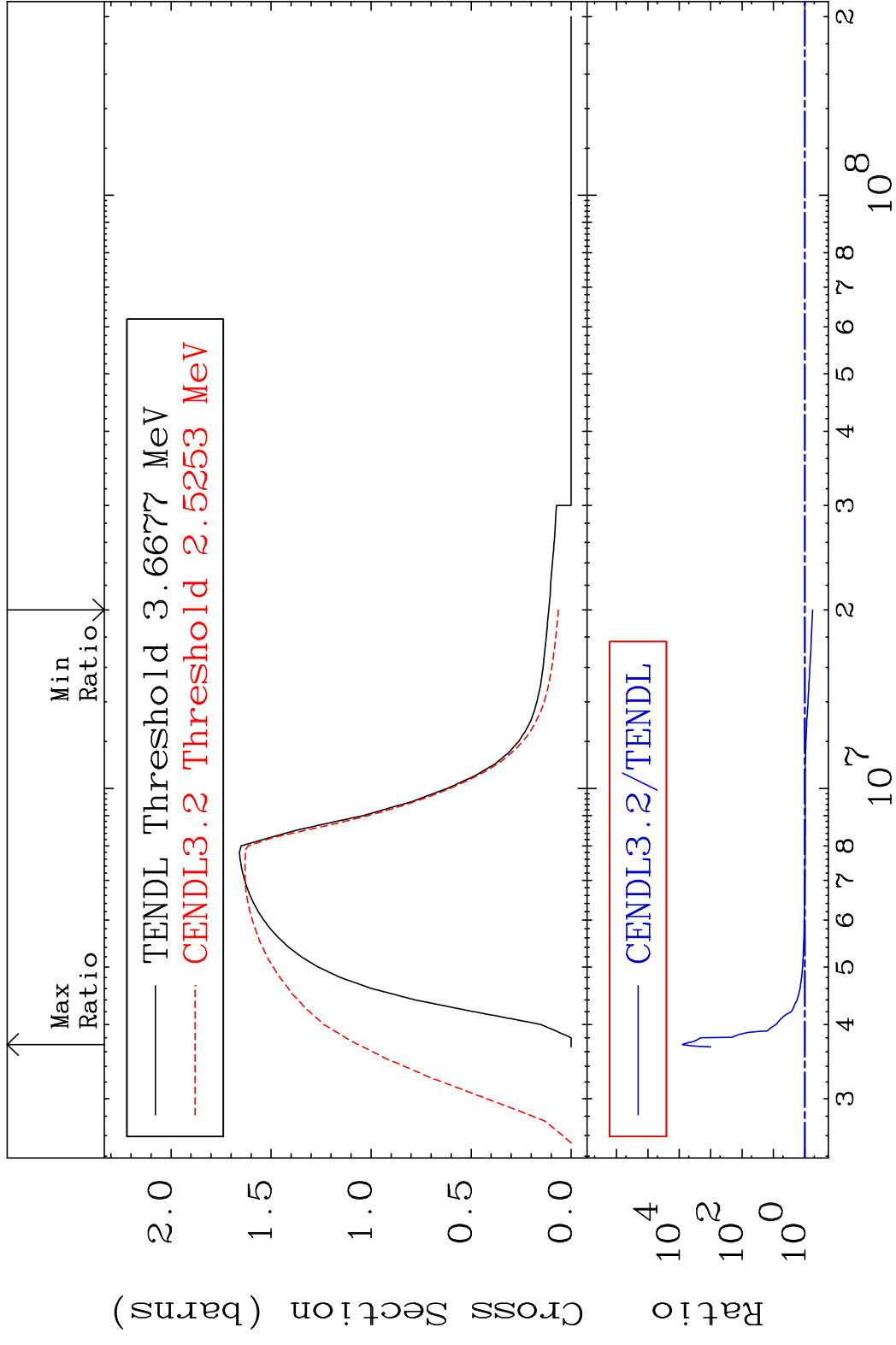


MAT 3843

(n,n') Continuum

38-Sr-90

Cross Section -43.48 To 9999. %



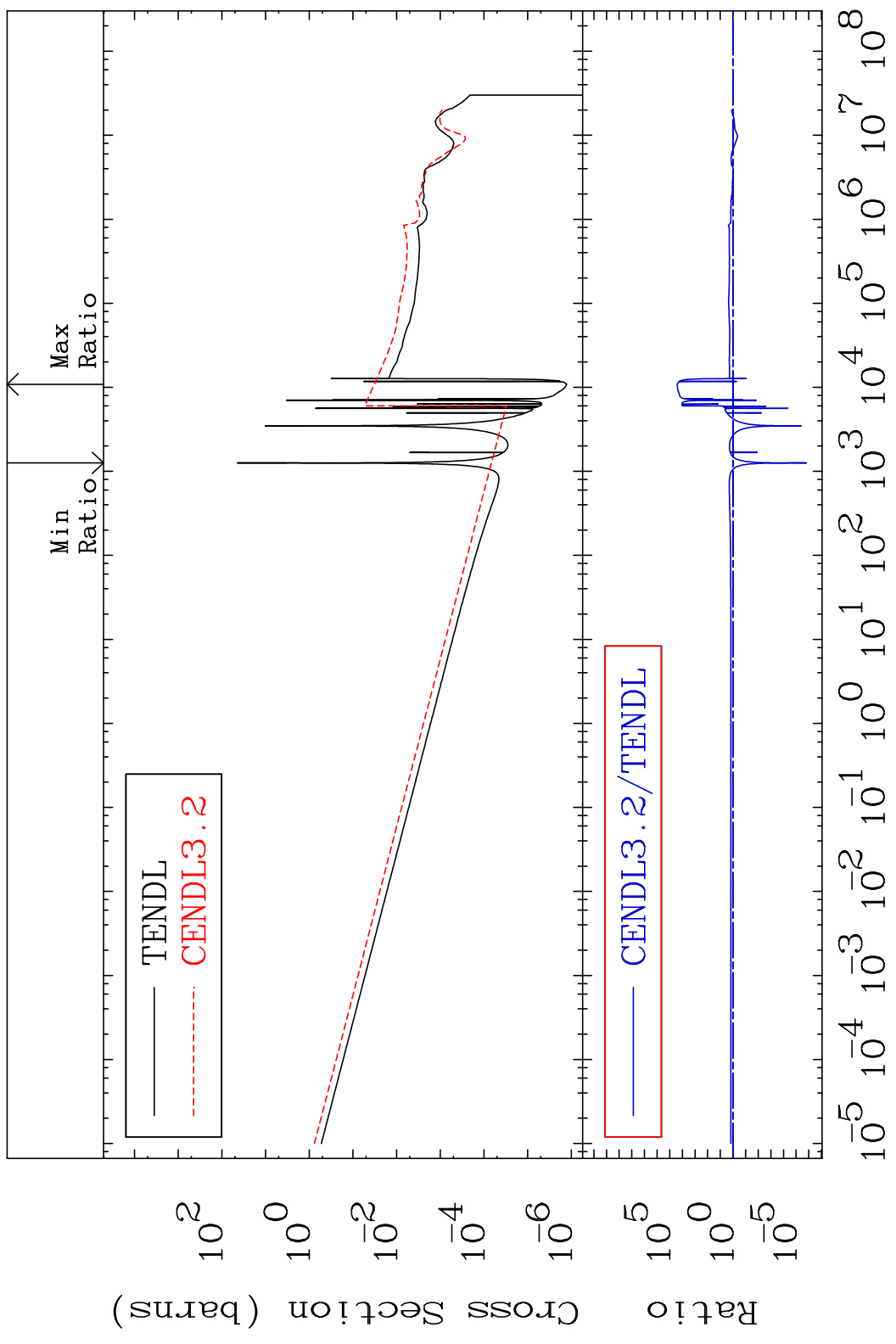
13

Incident Energy (eV)

38-Sr-90

MAT 3843

(n,  $\gamma$ )  
Cross Section -100.0 To 9999. %  
38-Sr-90

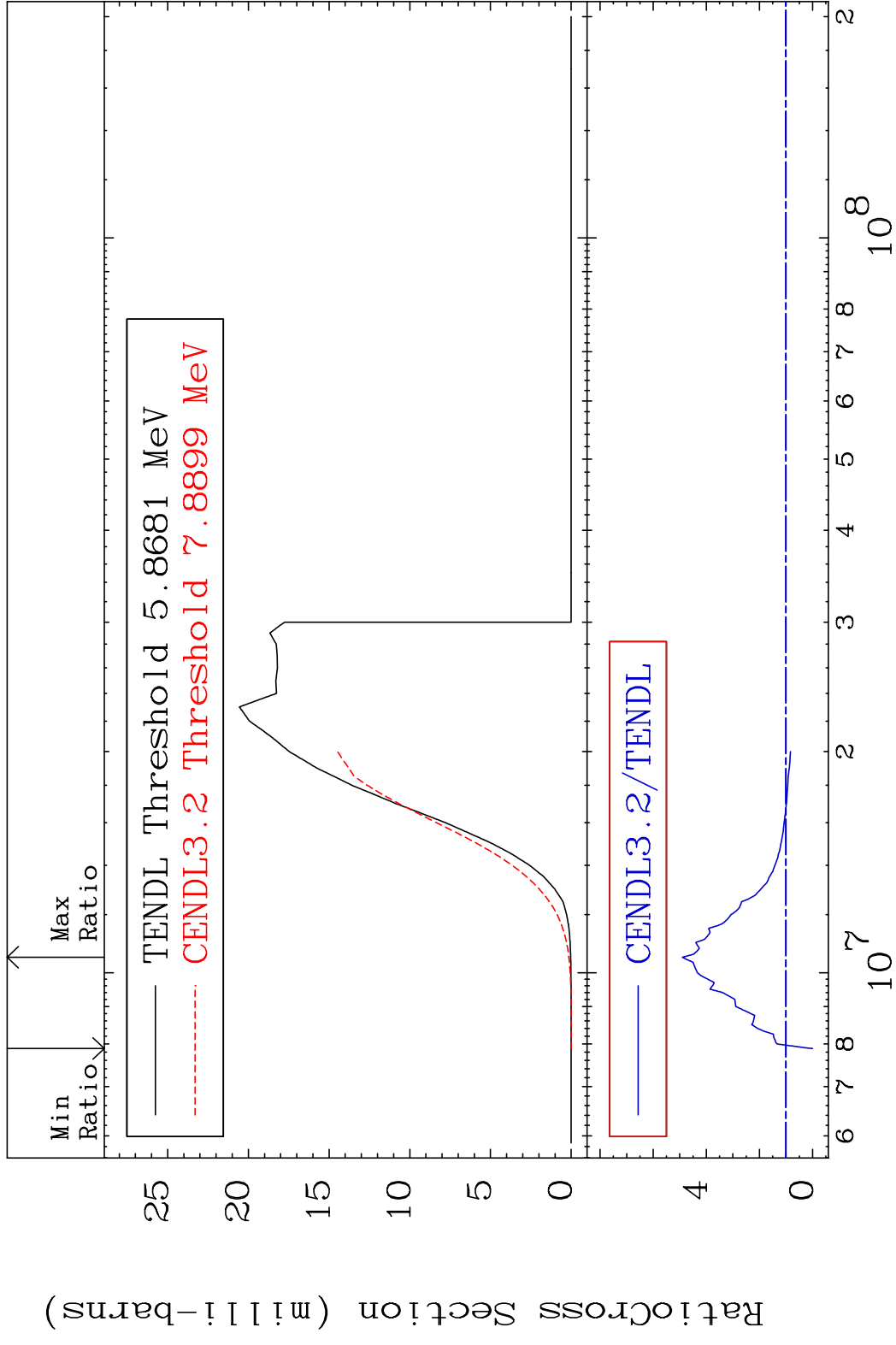


14

Incident Energy (eV)

38-Sr-90

MAT 3843 (n,p) 38-Sr-90  
 Cross Section -100.0 To 390.2 %



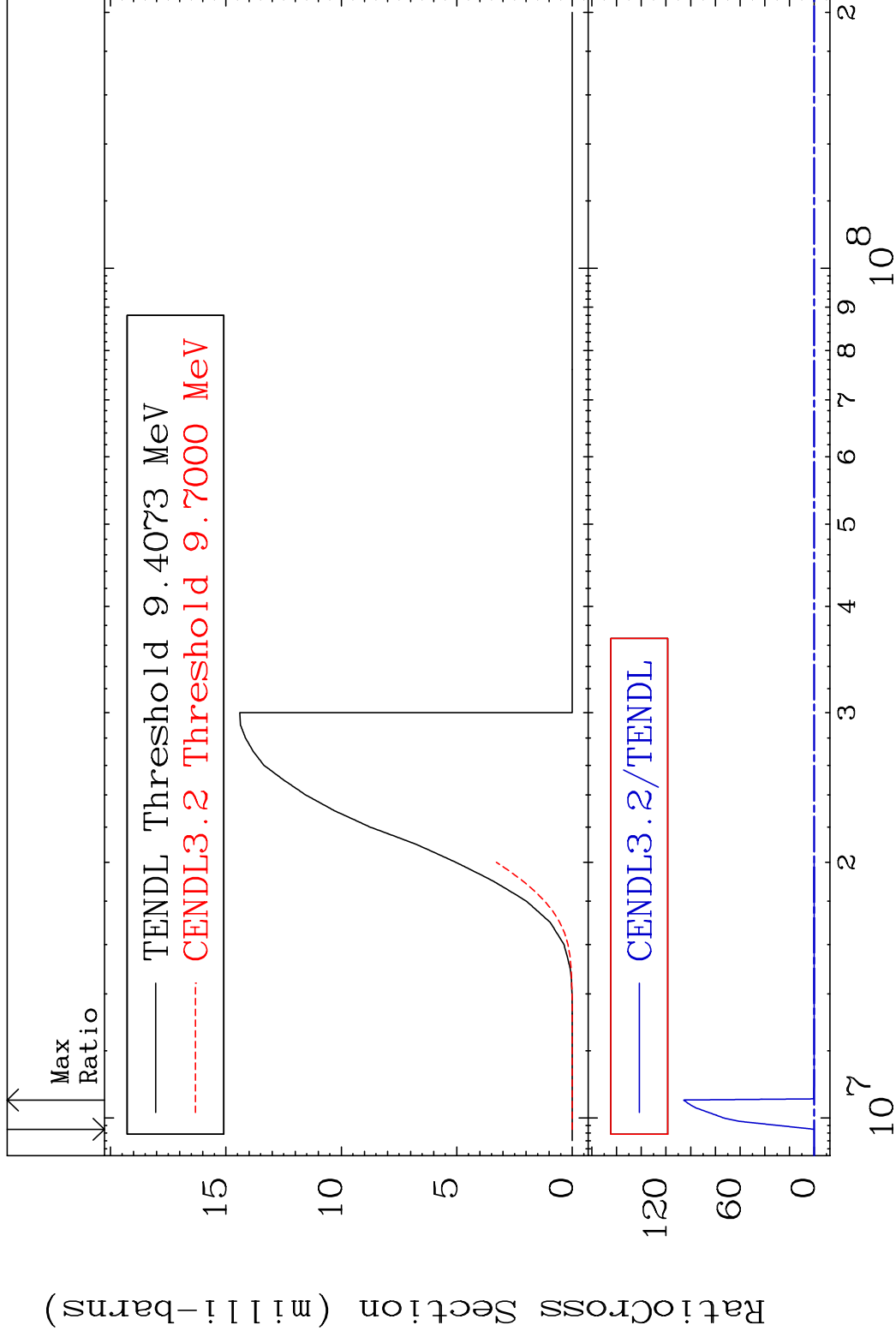
15 38-Sr-90

MAT 3843

(n,d)

38-Sr-90

Cross Section -100.0 To 9999. %



16

Incident Energy (eV)

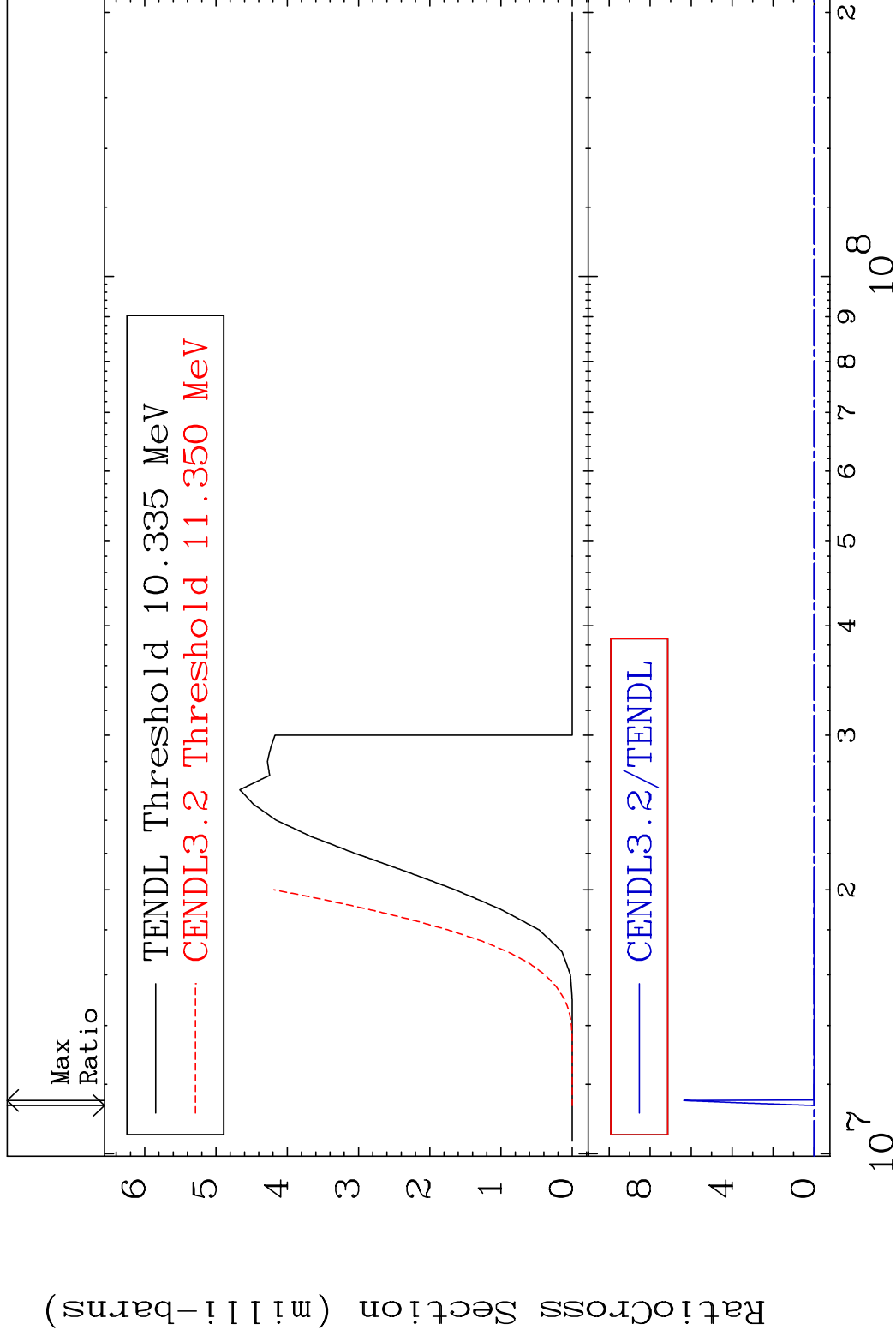
38-Sr-90

MAT 3843

(n, t)

38-Sr-90

Cross Section -100.0 To 9999. %



17

Incident Energy (eV)

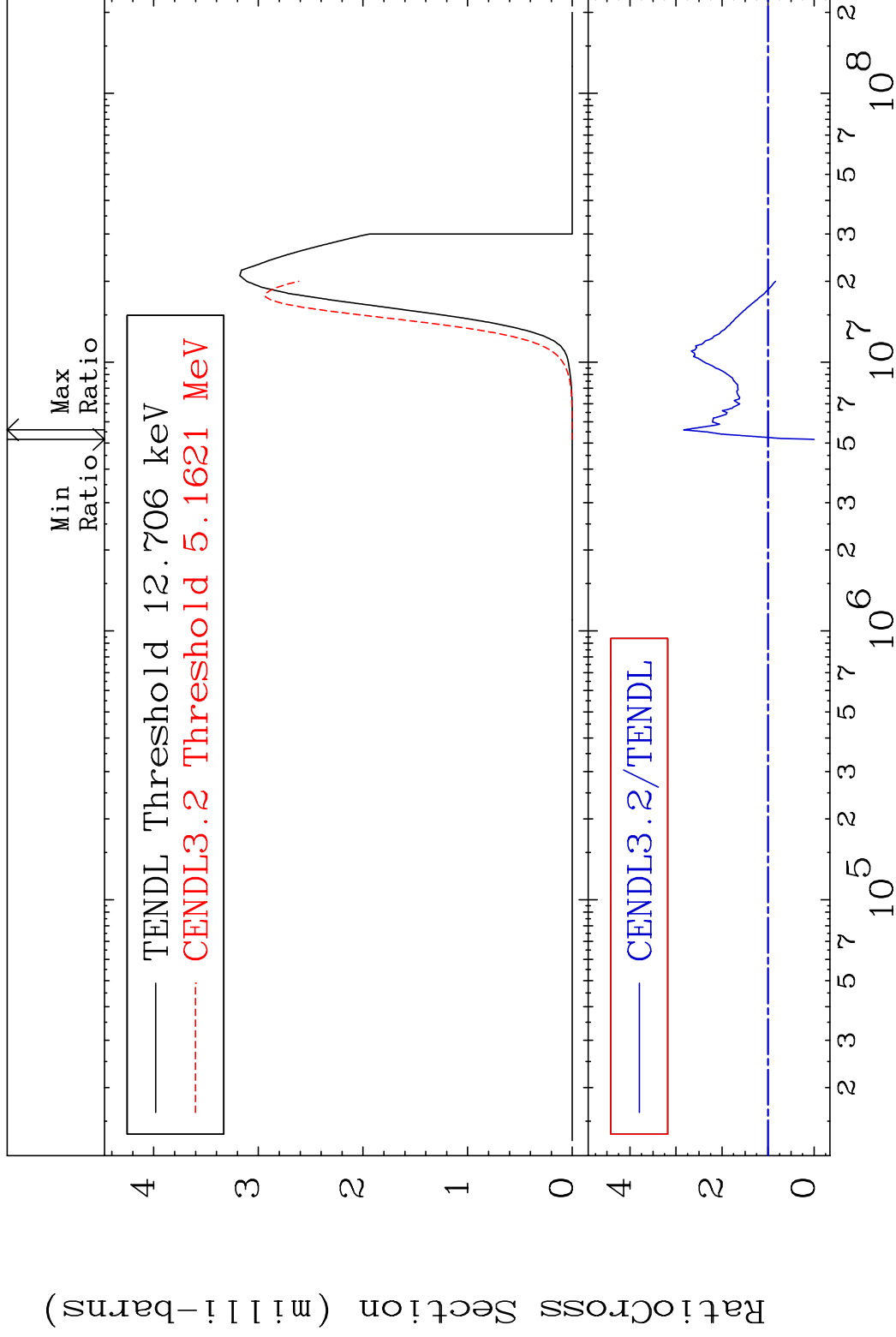
38-Sr-90

MAT 3843

(n,  $\alpha$ )

<sup>38</sup>Sr-90

Cross Section -100.0 To 183.4 %



18

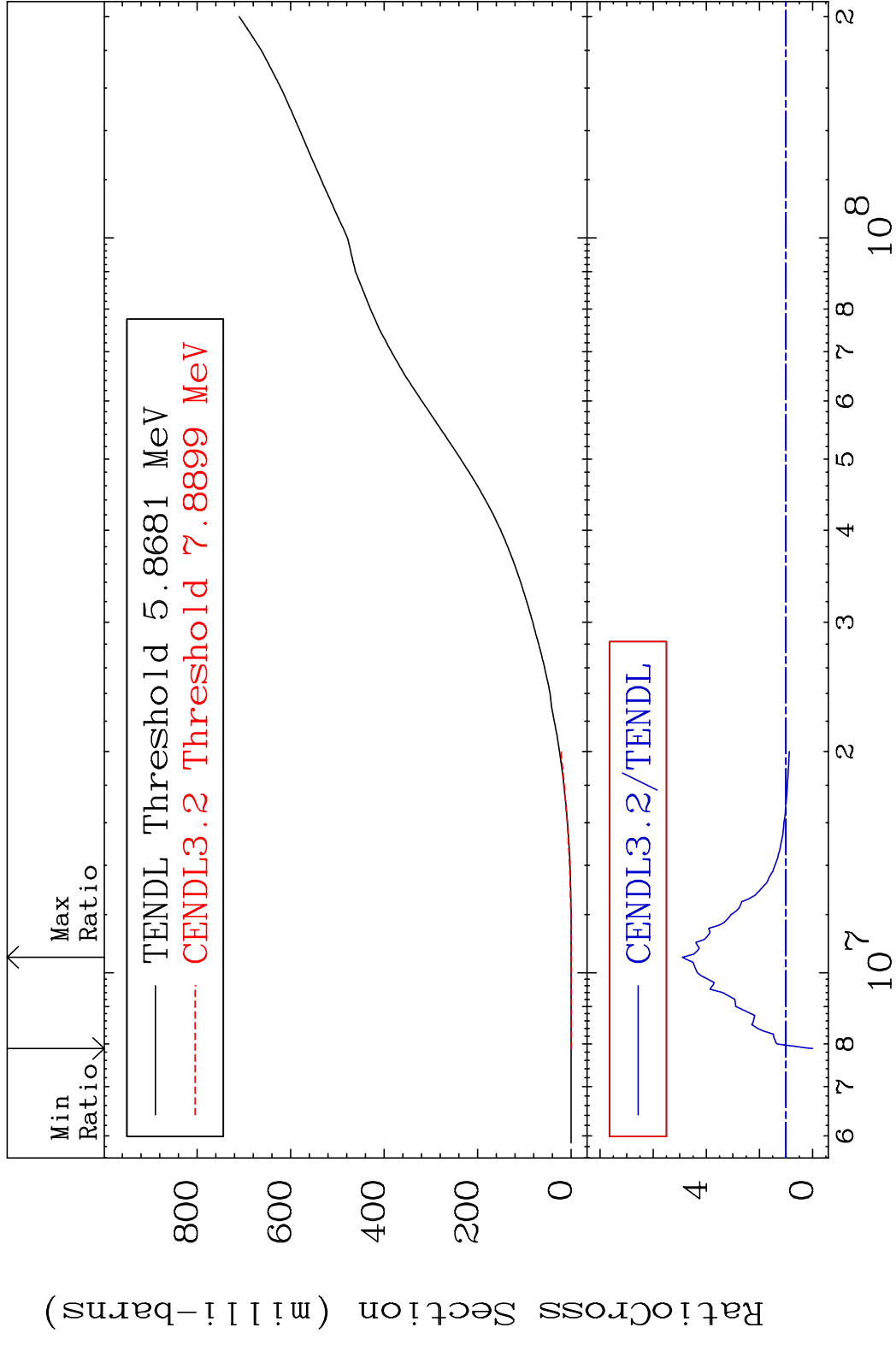
Incident Energy (eV)

<sup>38</sup>Sr-90

MAT 3843

Hydrogen Production  
Cross Section -100.0 To 390.2 %

38-Sr-90



19

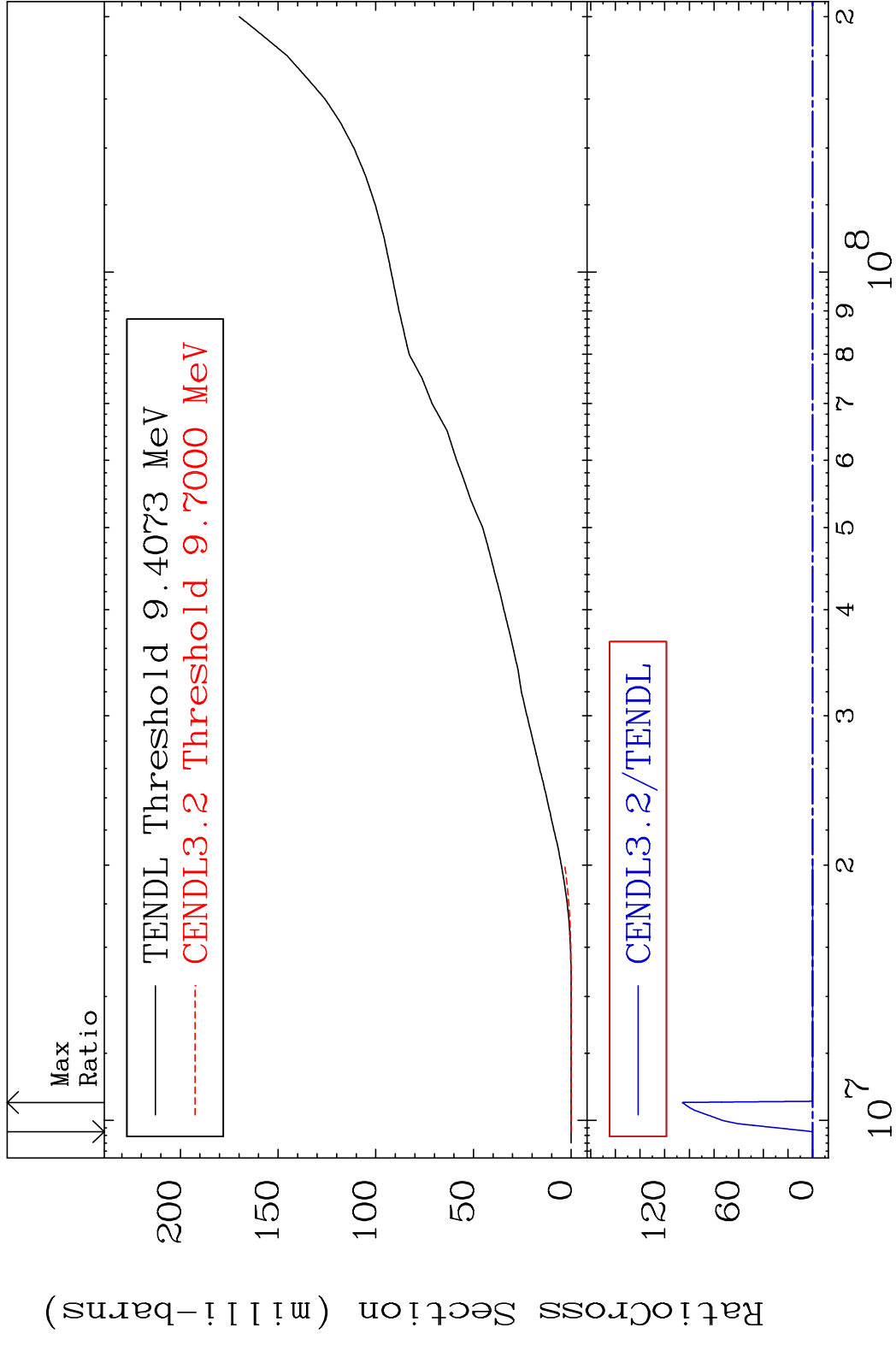
Incident Energy (eV)

38-Sr-90

MAT 3843

Deuterium Production 38-Sr-90

Cross Section -100.0 To 9999. %

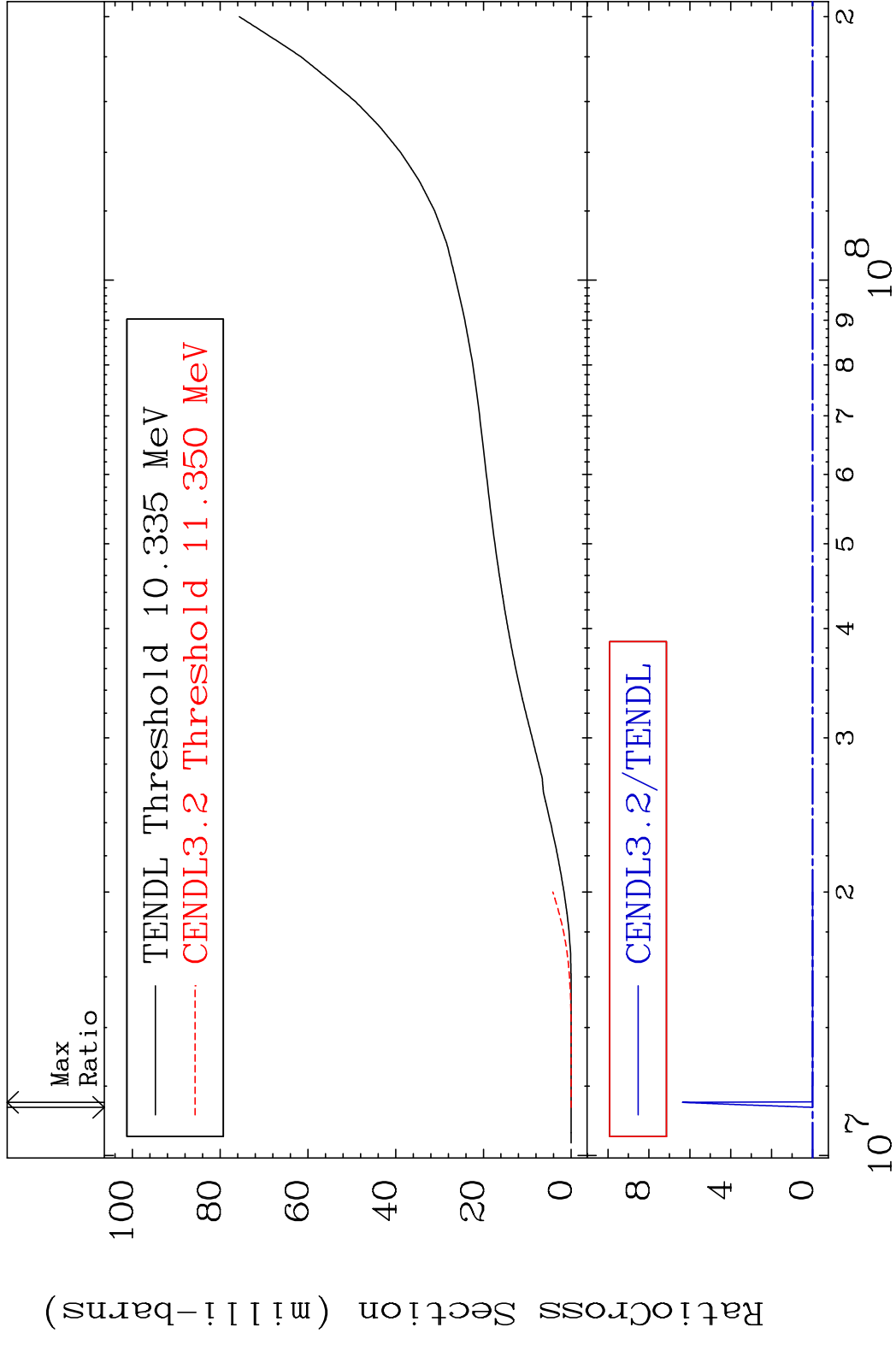


20 60 120 0 200

2 3 4 5 6 7 8 9 10<sup>8</sup> 2

38-Sr-90

MAT 3843 Tritium Production 38-Sr-90  
 Cross Section -100.0 To 9999. %



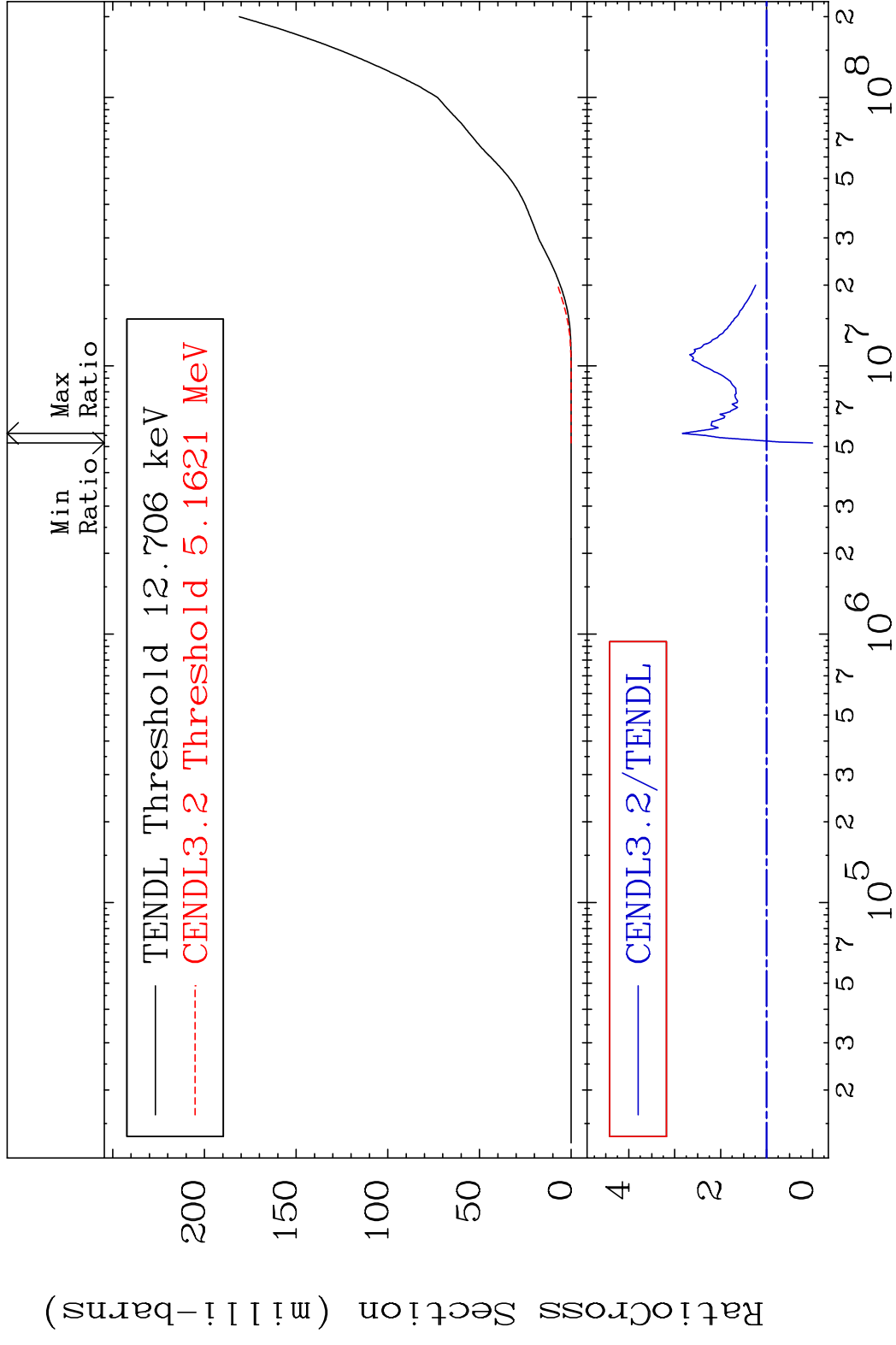
21 Incident Energy (eV) 38-Sr-90

MAT 3843

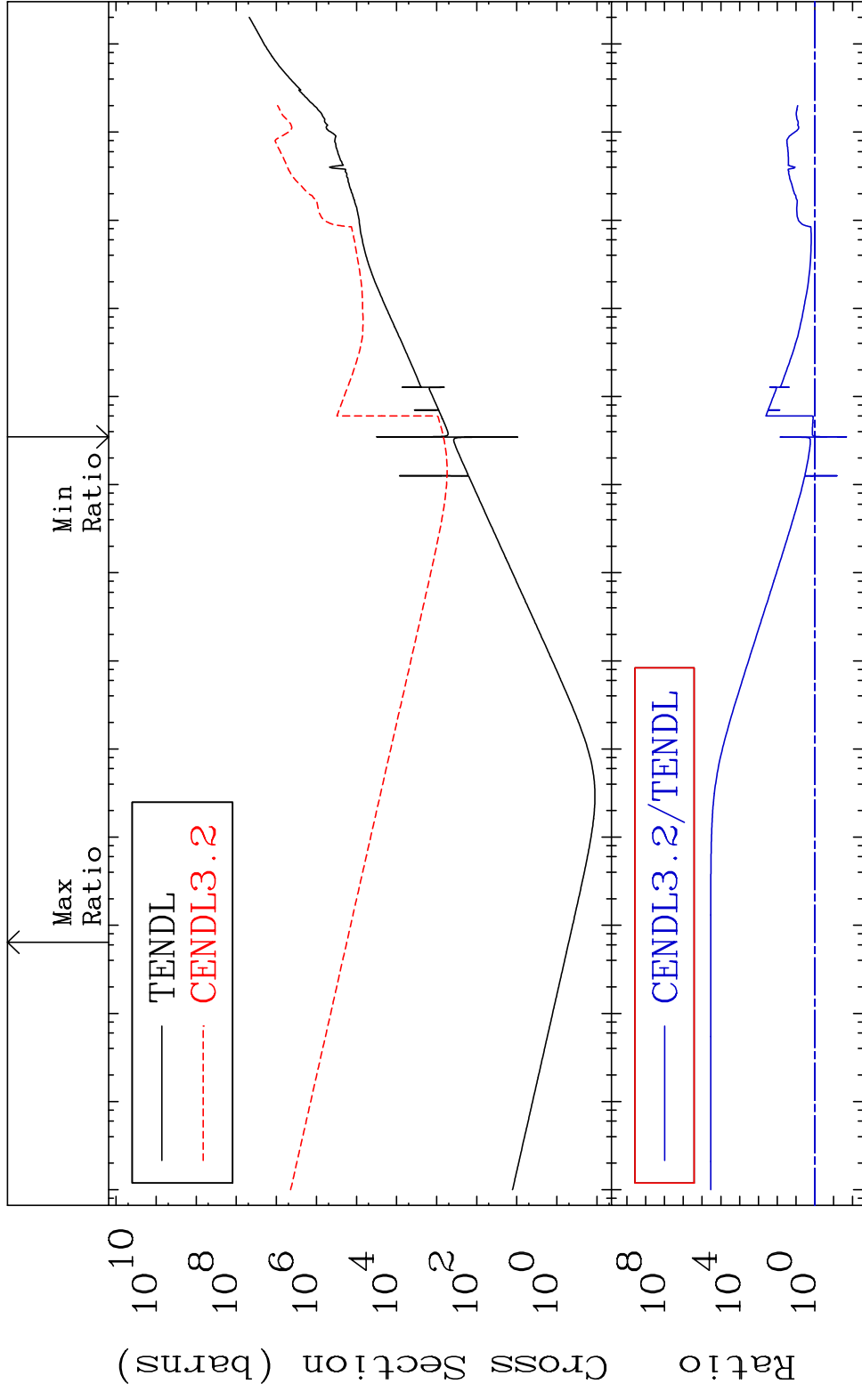
He-4 Production

<sup>38</sup>Sr-90

Cross Section -100.0 To 183.4 %

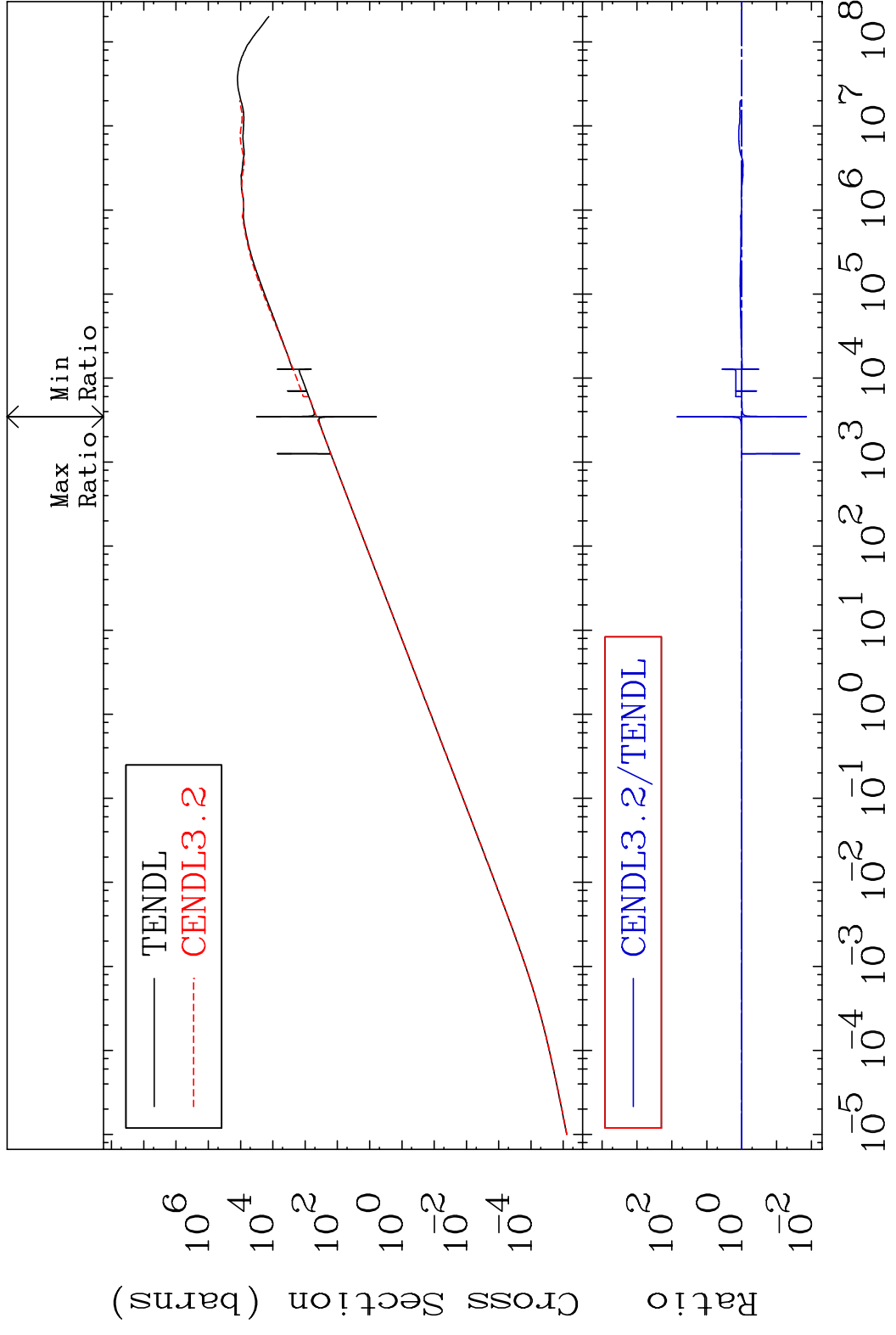


MAT 3843 Kerma total (eV-barns) 38-Sr-90  
 Cross Section -97.88 To 9999. %



MAT 3843

Kerma elastic Cross Section -98.60 To 6946. %  
38-Sr-90

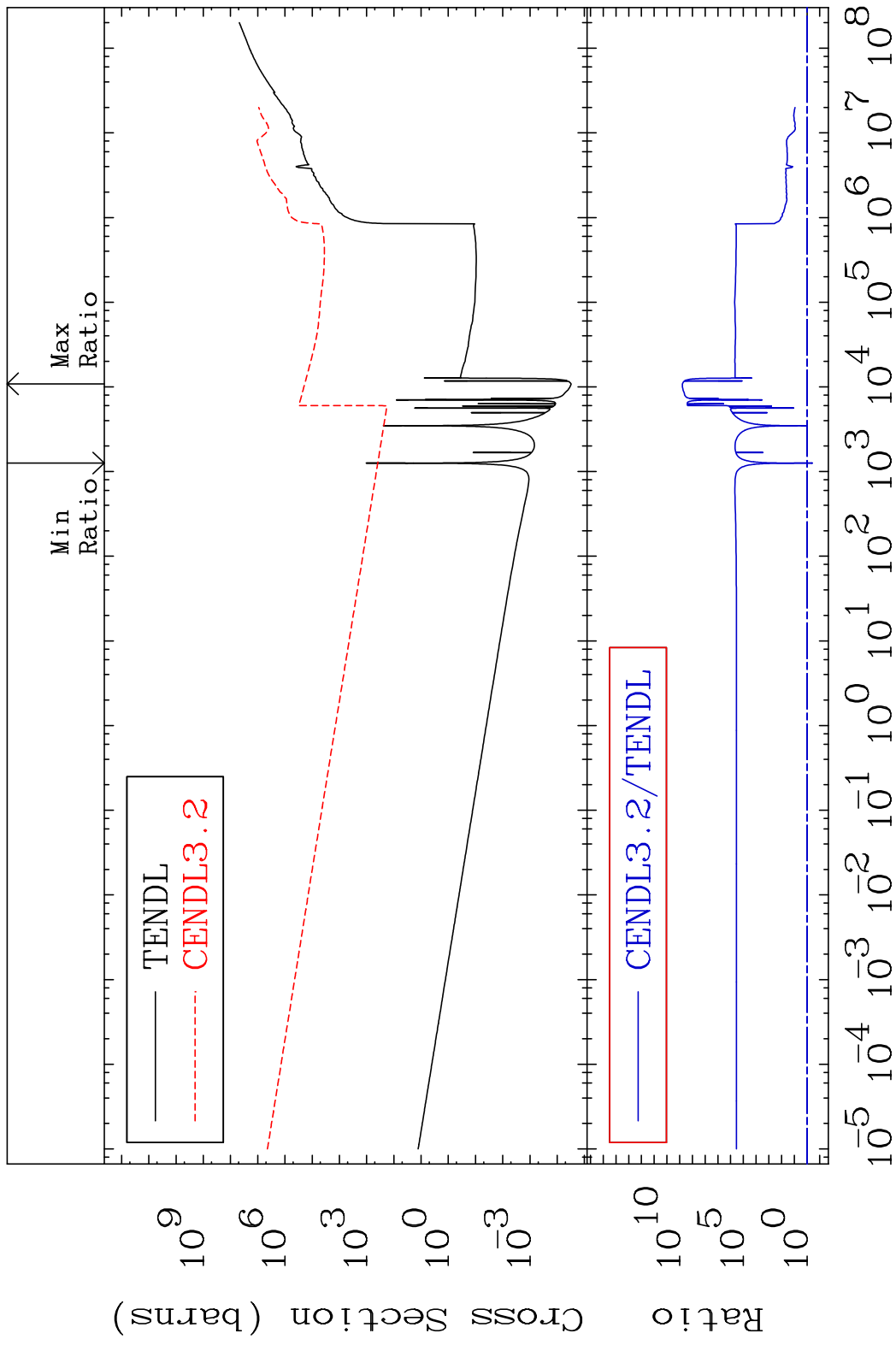


24

Incident Energy (eV)

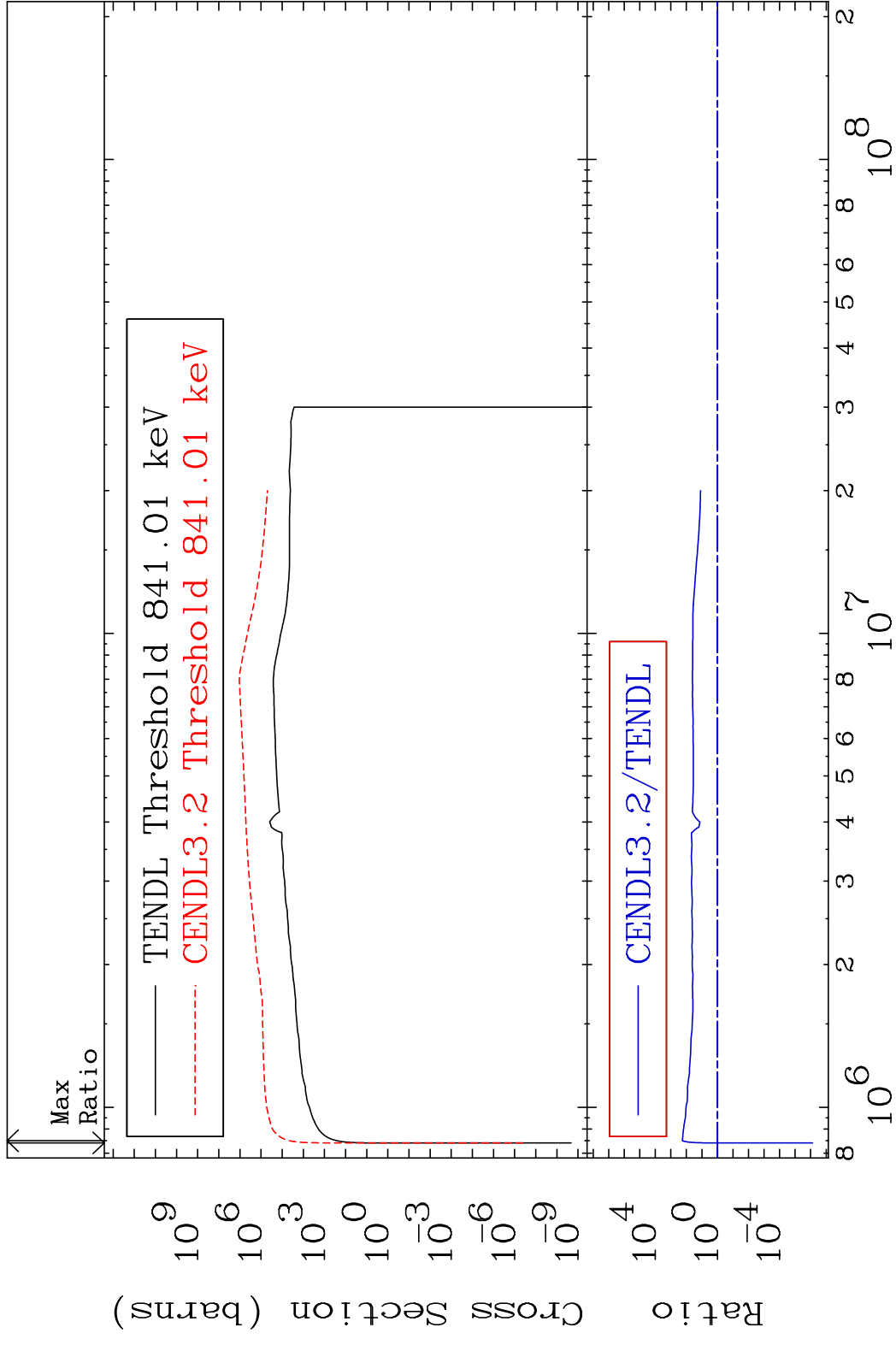
38-Sr-90

MAT 3843 Kerma non-elastic (all but mt2) 38-Sr-90  
 Cross Section -63.18 To 9999. %

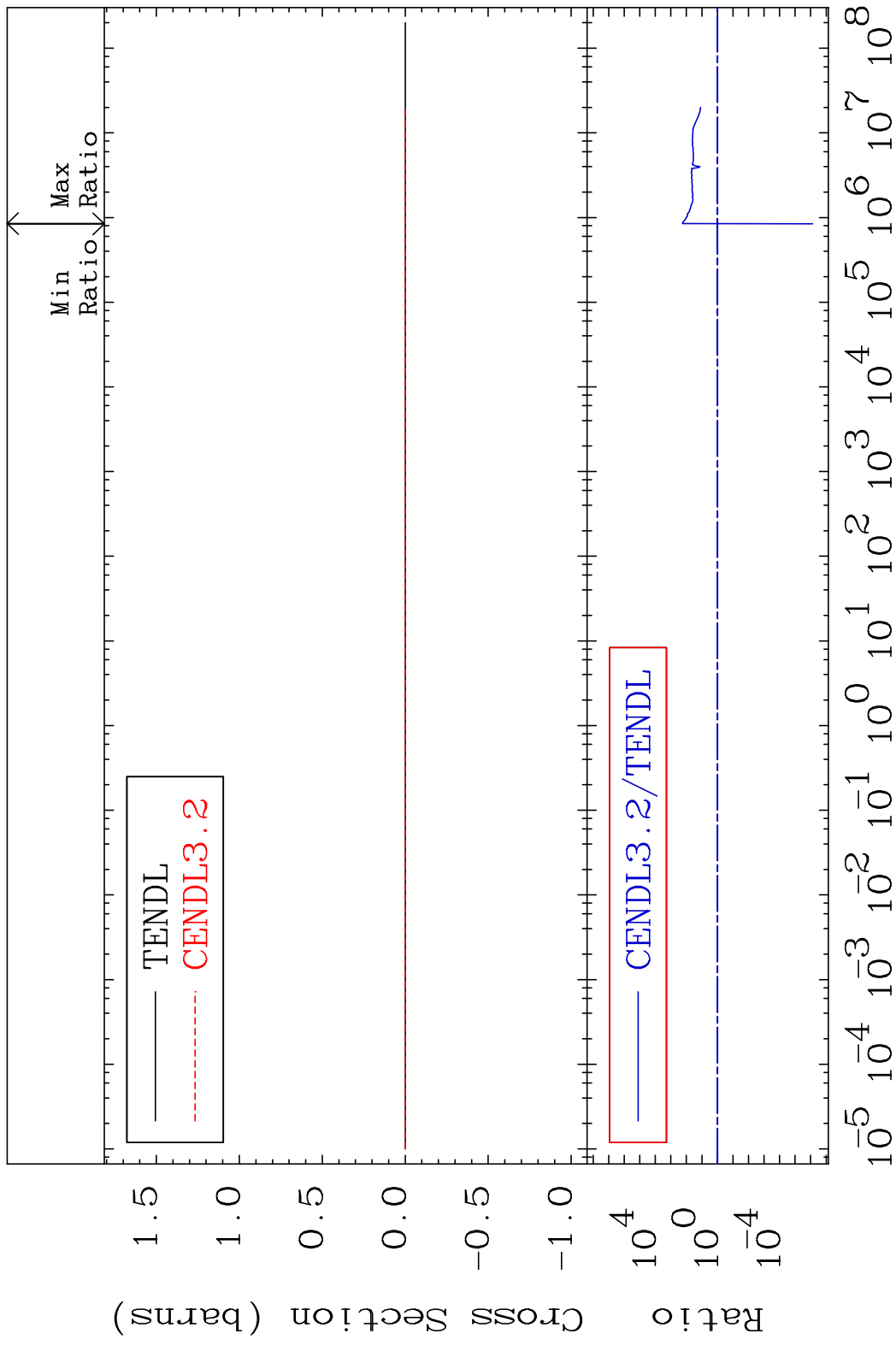


25 Incident Energy (eV) 38-Sr-90

MAT 3843 Kerma inelastic (mt51-91) 38-Sr-90  
 Cross Section -100.0 To 9999. %

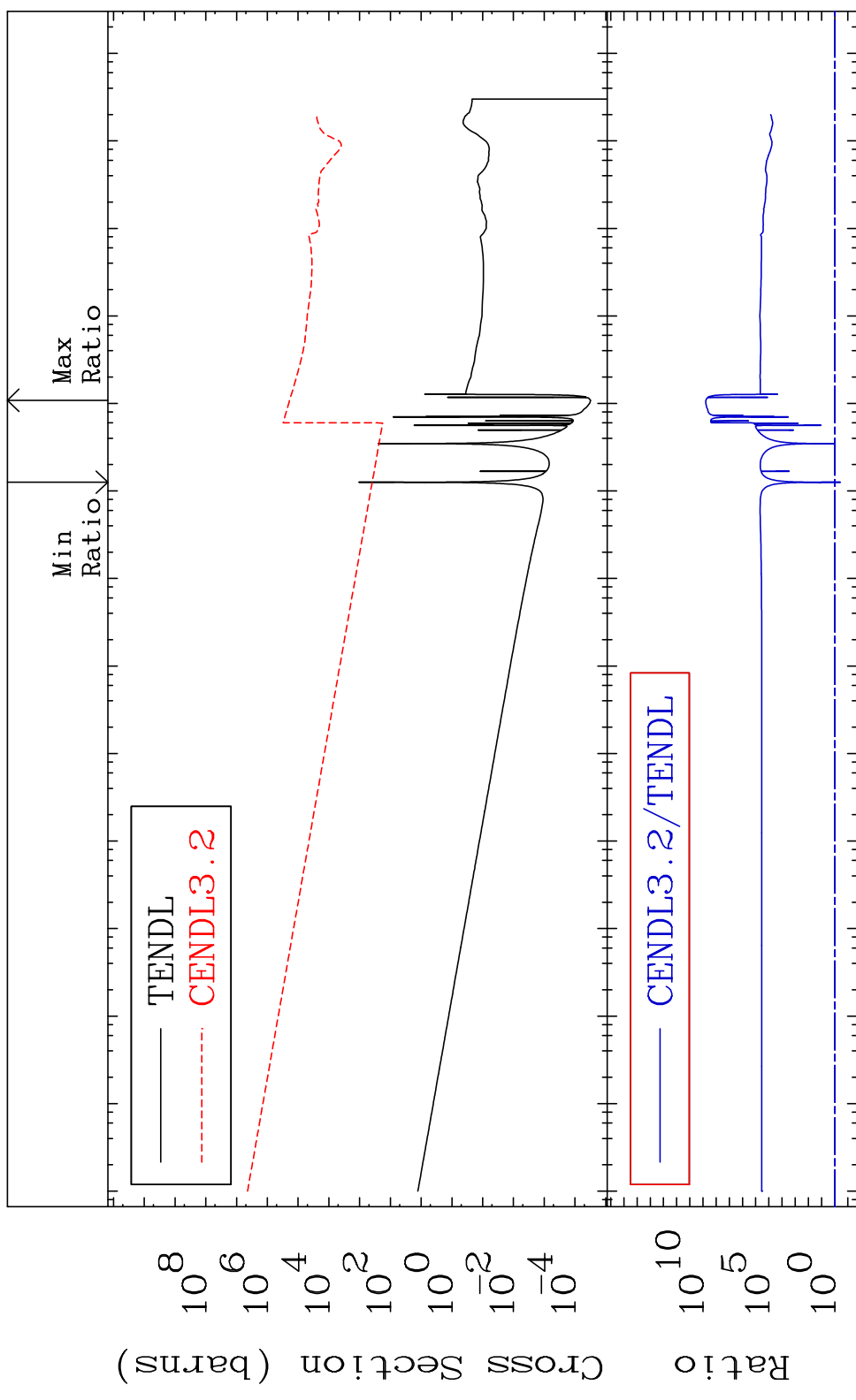


MAT 3843 Kerma fission (mt18 or mt19-20-21-38) 38-Sr-90  
 Cross Section -100.0 To 9999. %



MAT 3843

Kerma capture (mt102) 38-Sr-90  
Cross Section -63.18 To 9999. %

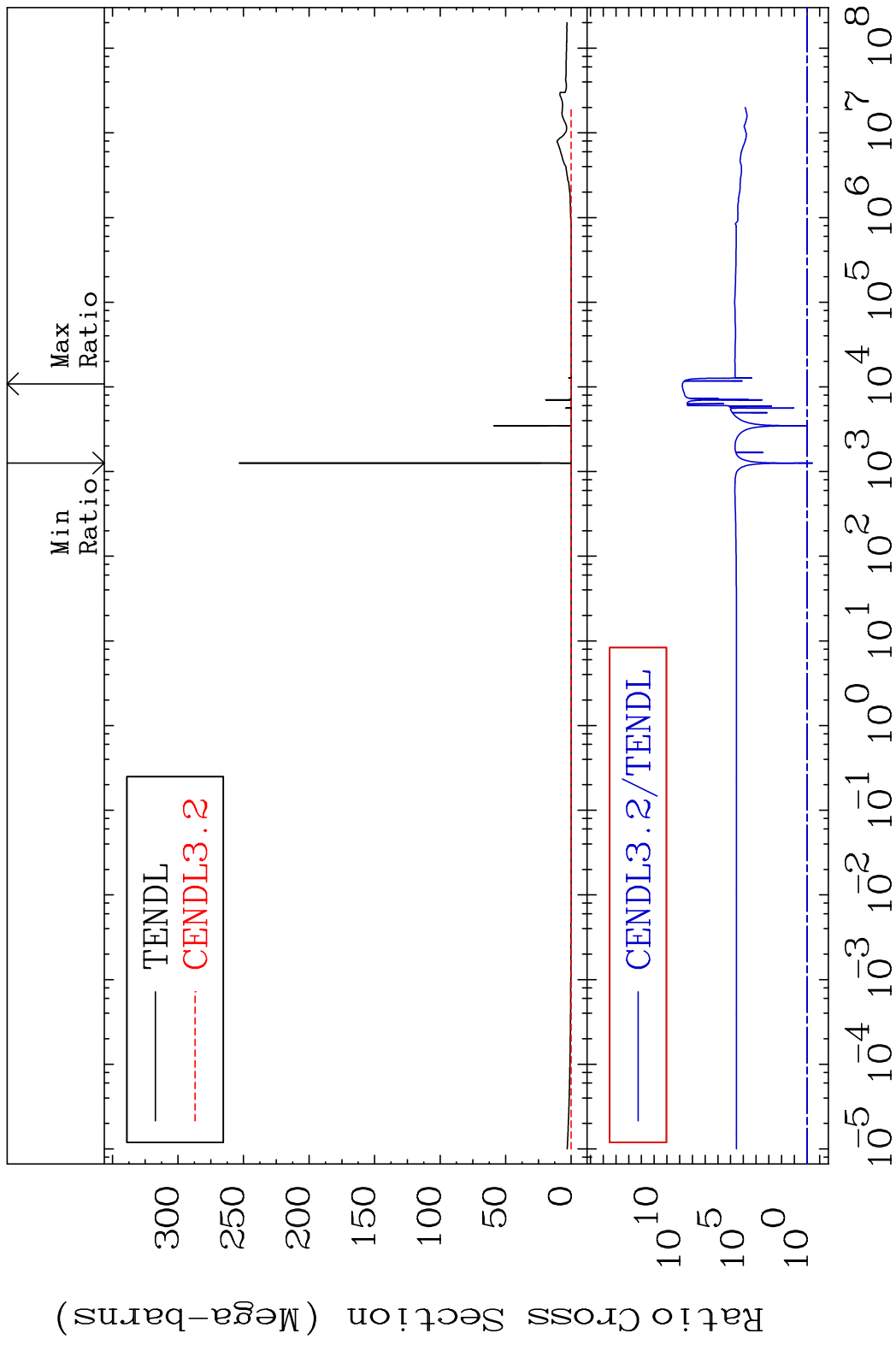


28

Incident Energy (eV)

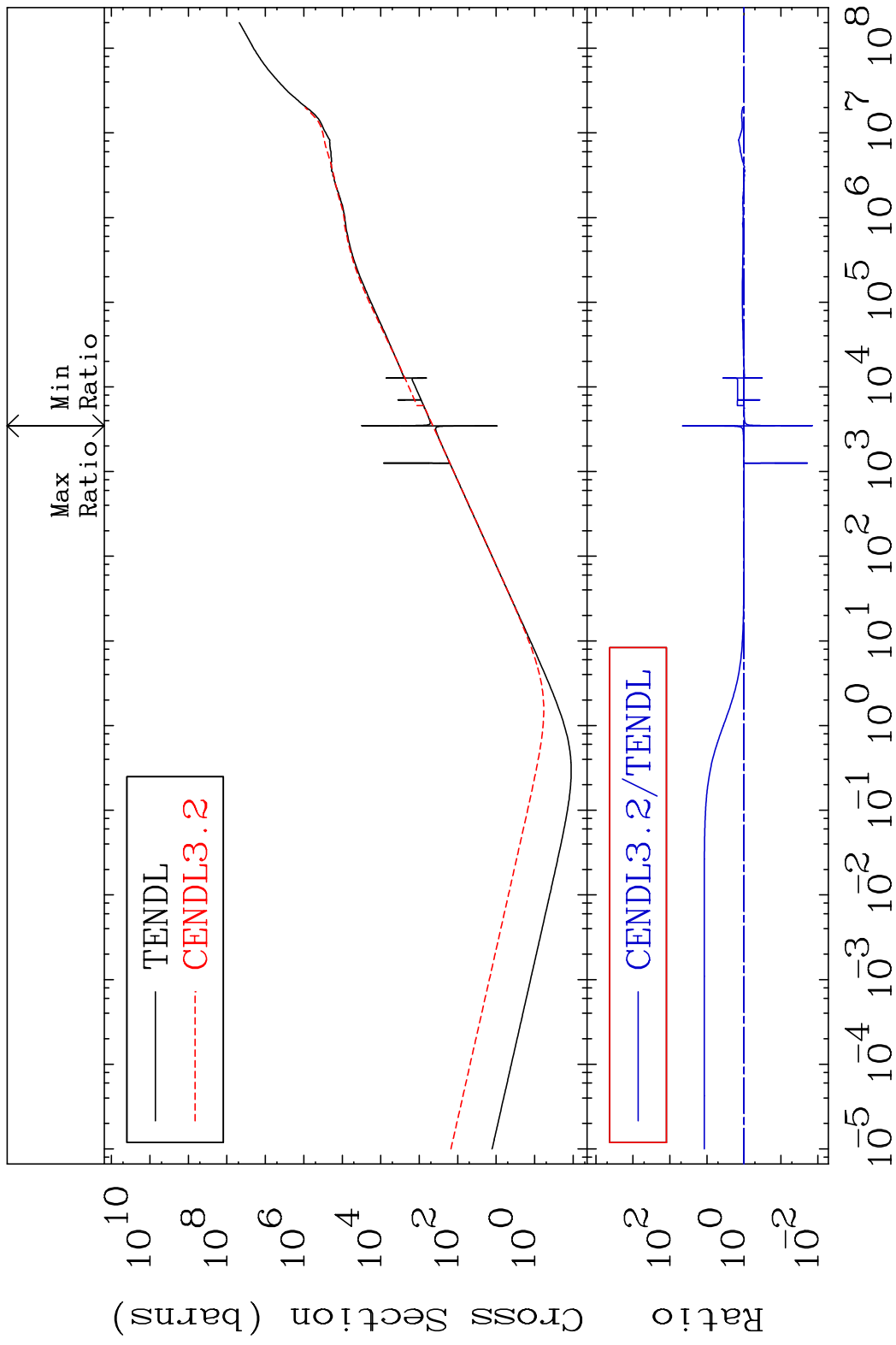
38-Sr-90

MAT 3843 Total photon (eV-barns) 38-Sr-90  
Cross Section -63.18 To 9999. %

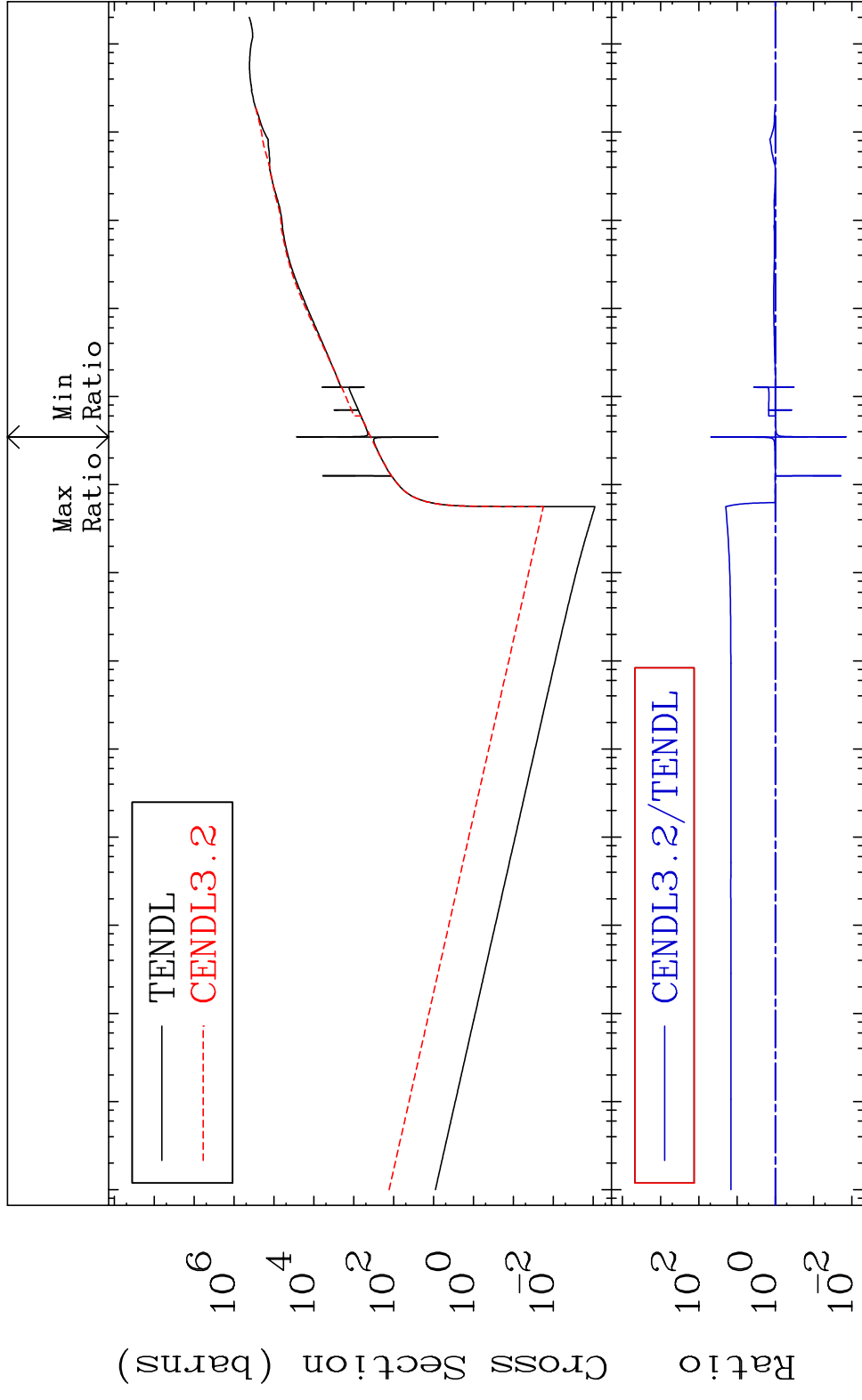


29 Incident Energy (eV) 38-Sr-90

MAT 3843 Total kinematic kerma (high limit) 38-Sr-90  
 Cross Section -98.61 To 4517. %



MAT 3843      Dpa total (eV-barns)      38-Sr-90  
 Cross Section      -98.62 To 4801. %



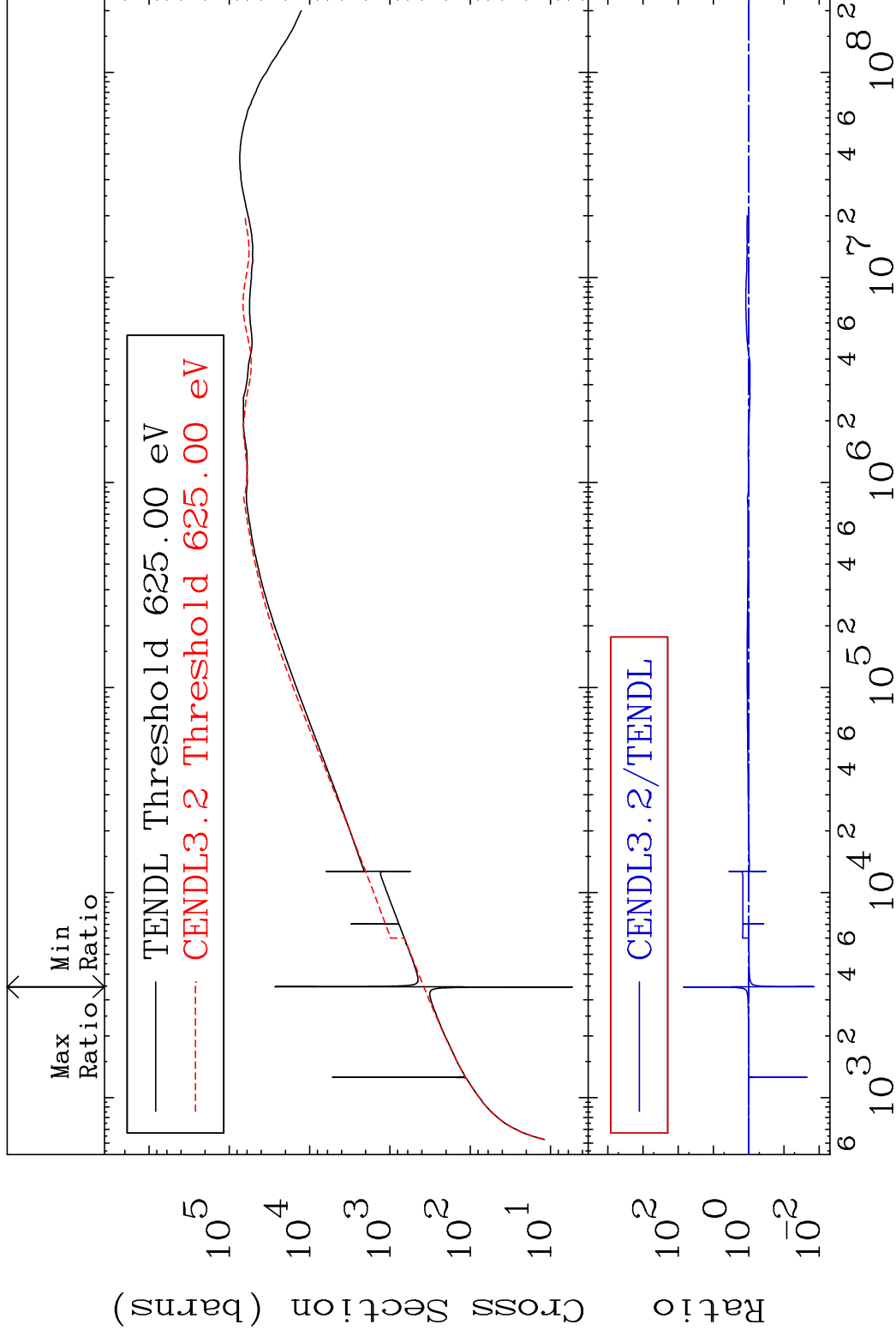
31      Incident Energy (eV)      38-Sr-90

MAT 3843

Dpa elastic (mt2)

38-Sr-90

Cross Section -98.61 To 6933. %

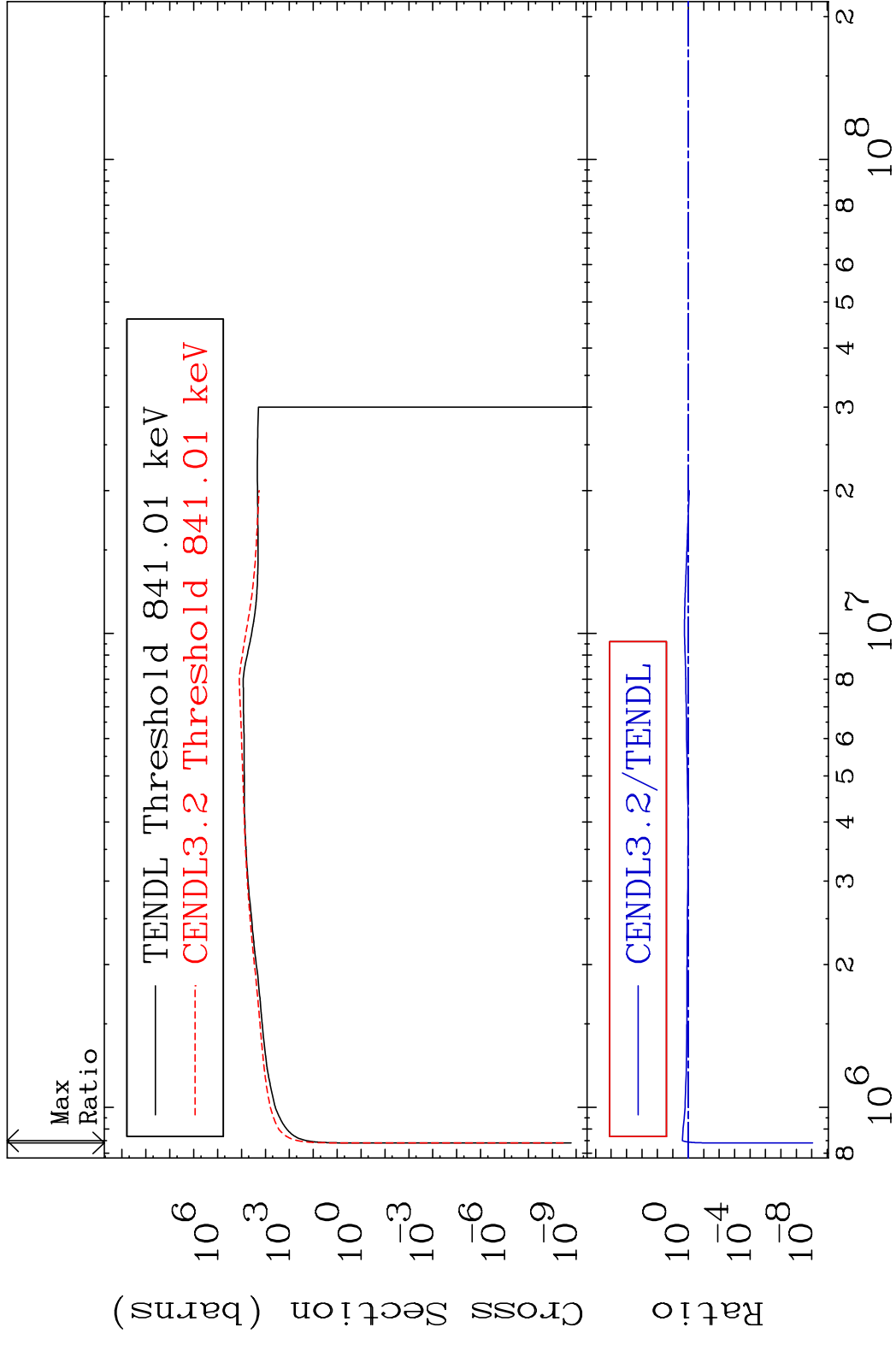


32

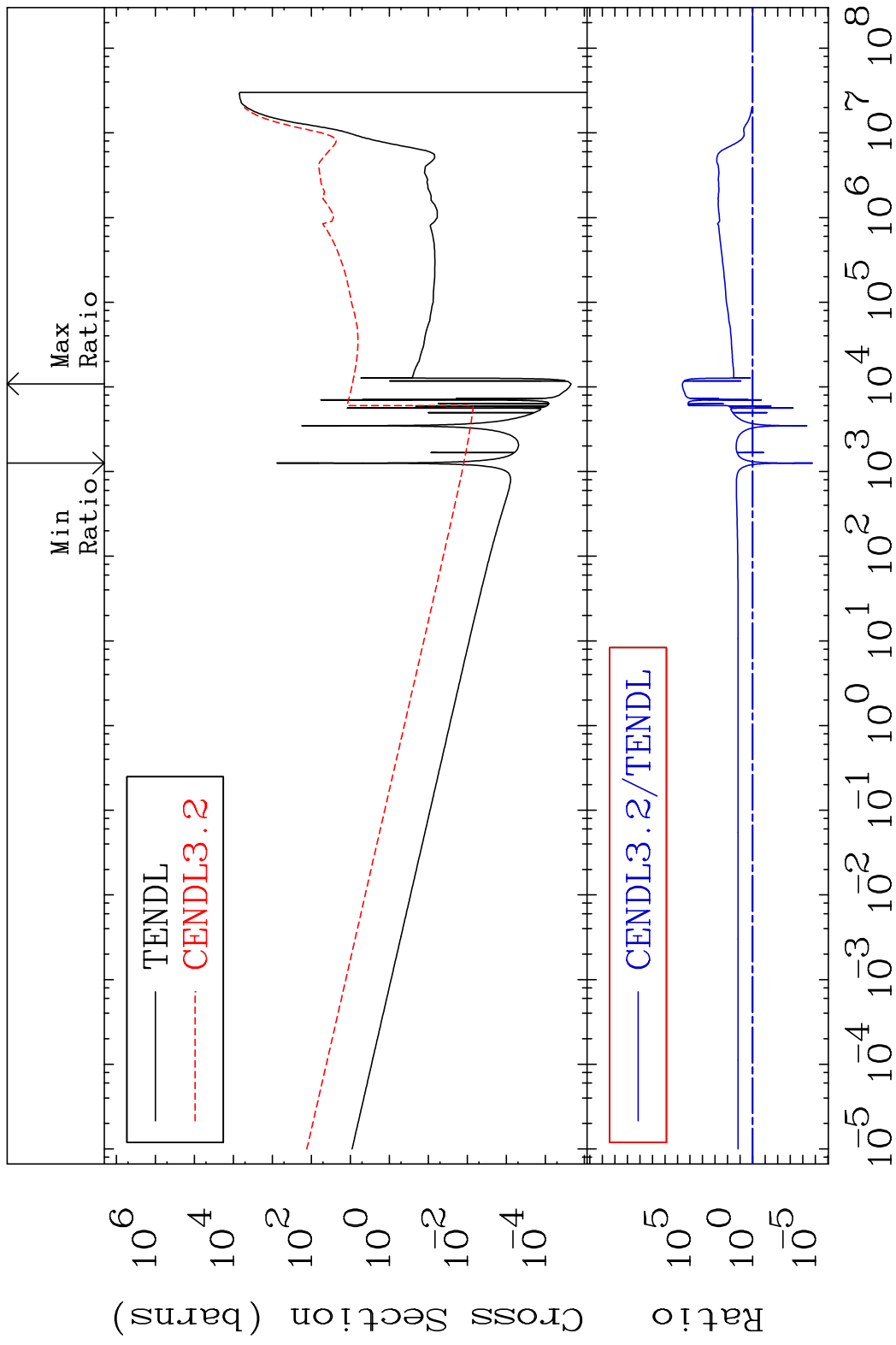
Incident Energy (eV)

38-Sr-90

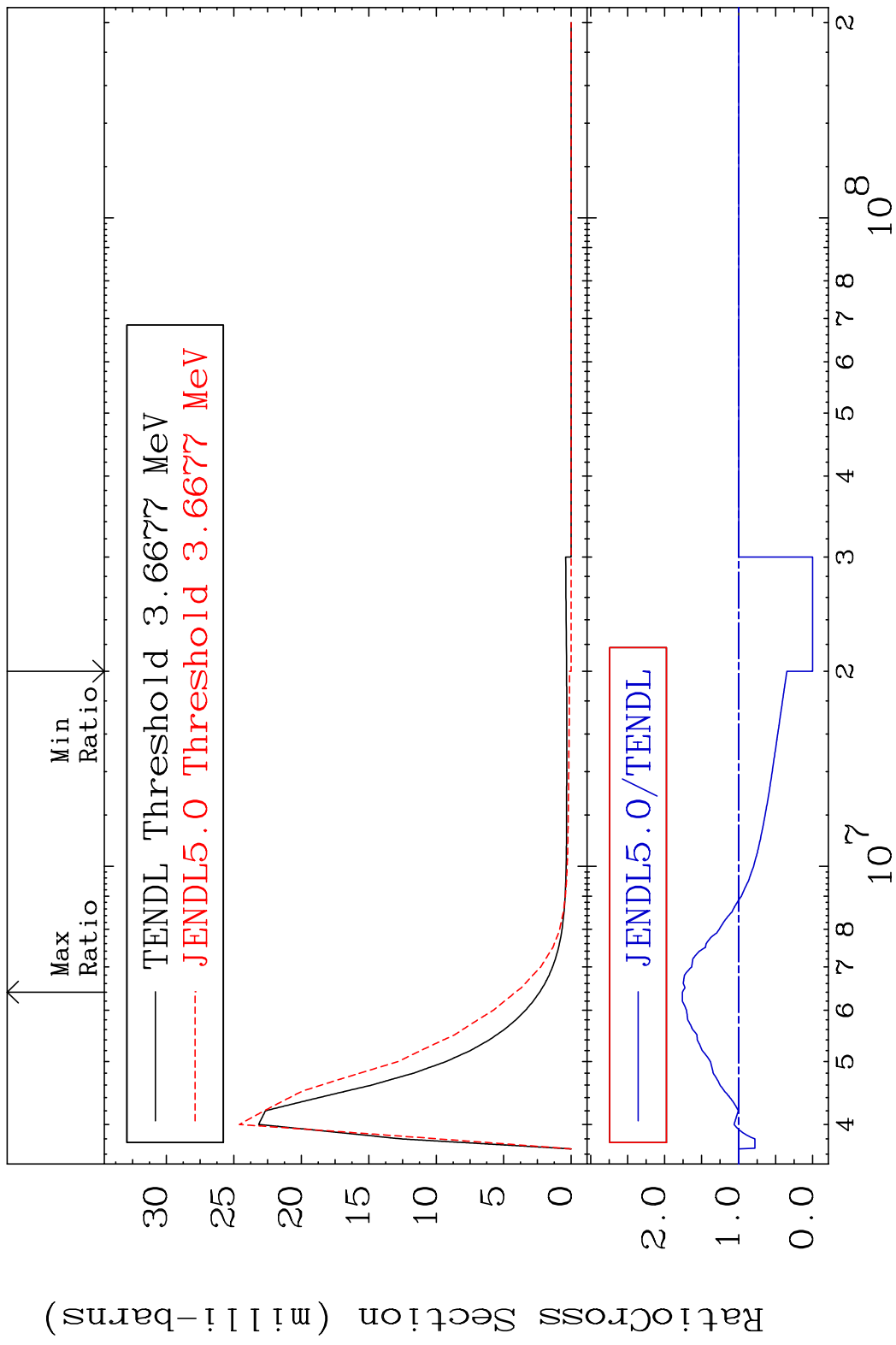
MAT 3843 Dpa inelastic (mt51-91) 38-Sr-90  
 Cross Section -100.0 To 141.8 %



MAT 3843 Dpa disappearance (mt102 -120) 38-Sr-90  
 Cross Section -100.0 To 9999. %



MAT 3843 MT= 76 (n,n') Level 38-Sr-90  
 Cross Section -100.0 To 76.08 %

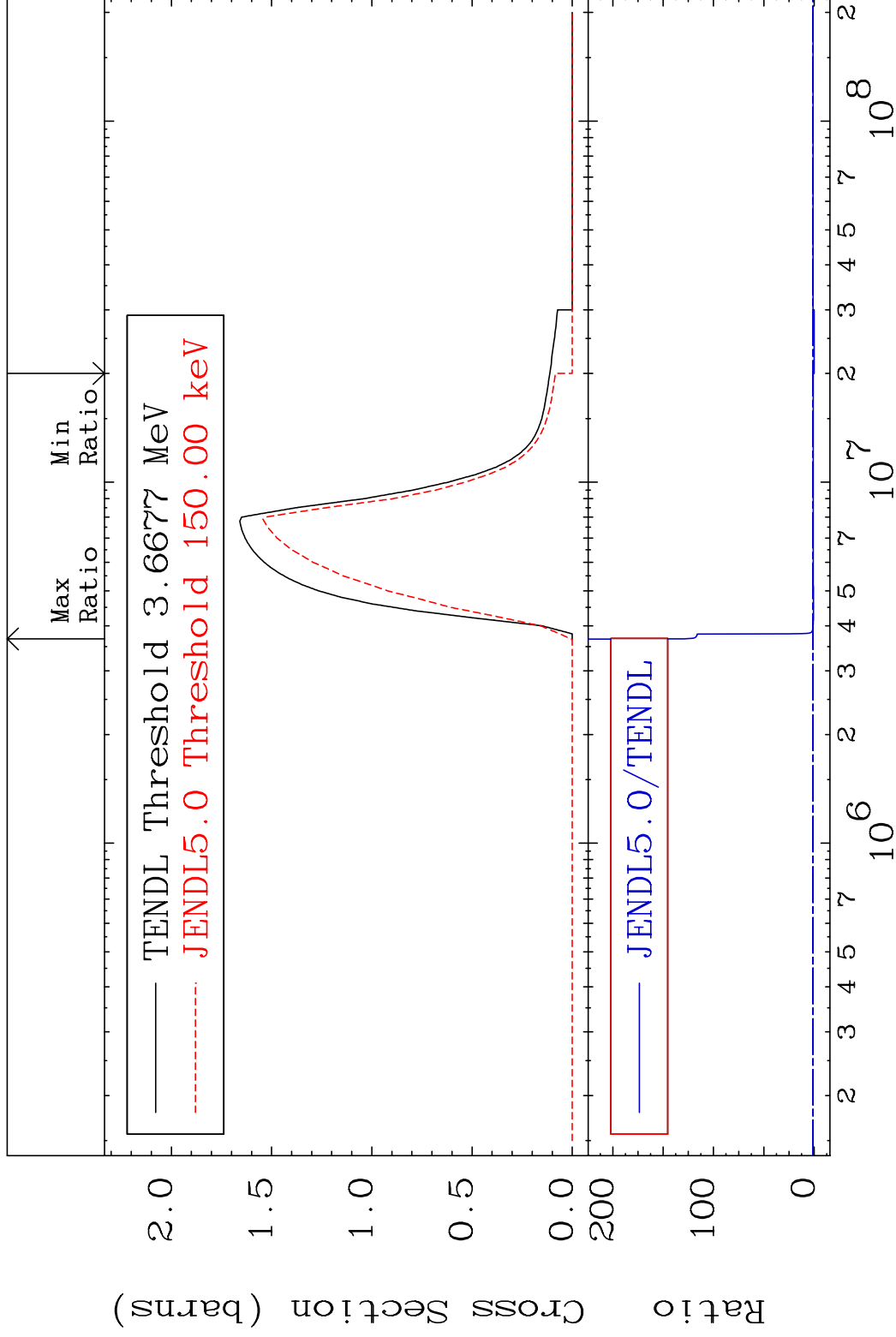


MAT 3843

(n,n') Continuum

38-Sr-90

Cross Section -100.0 To 9999. %



36

Incident Energy (eV)

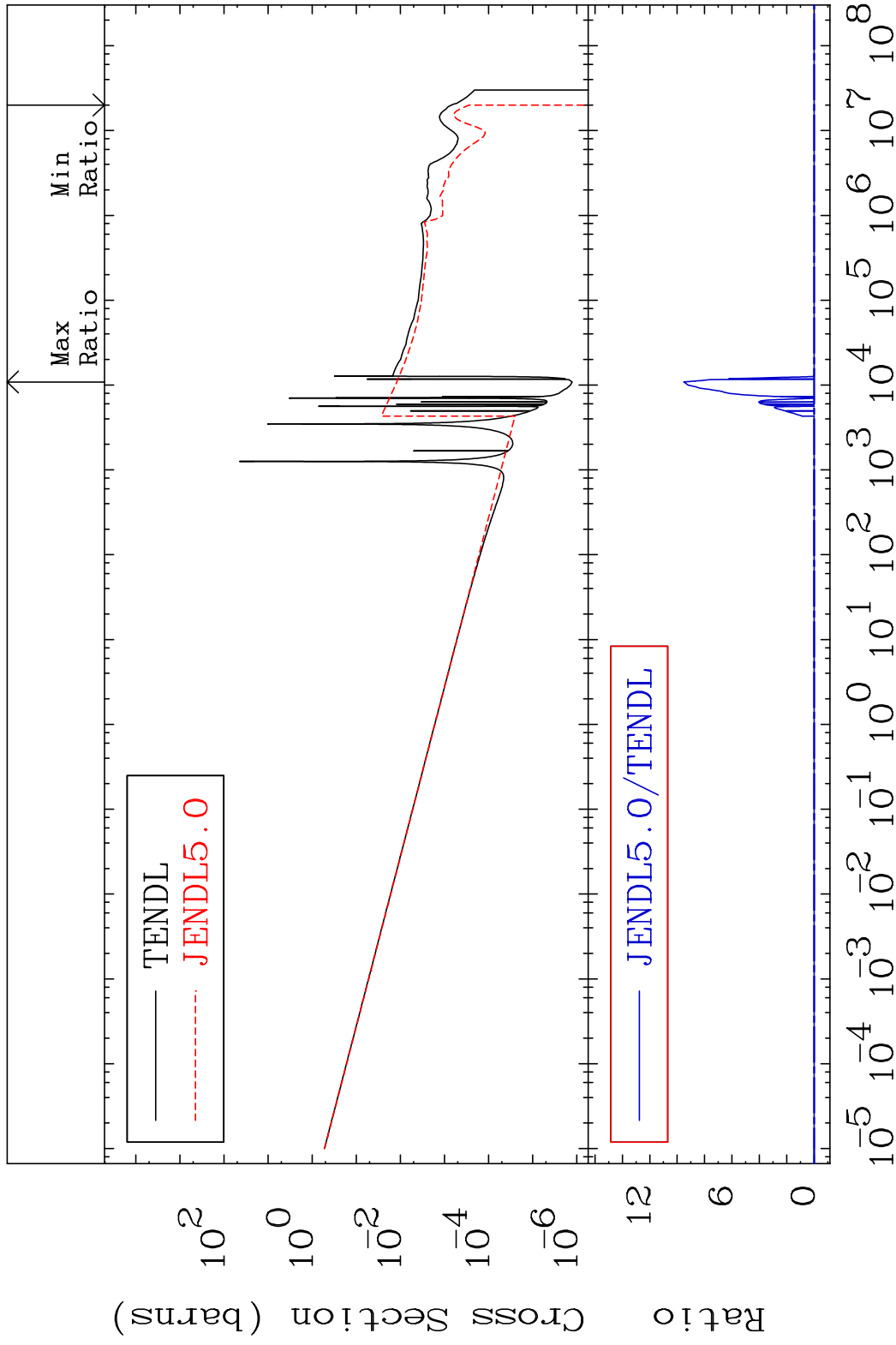
38-Sr-90

MAT 3843

(n,  $\gamma$ )

38-Sr-90

Cross Section -100.0 To 9999. %



37

Incident Energy (eV)

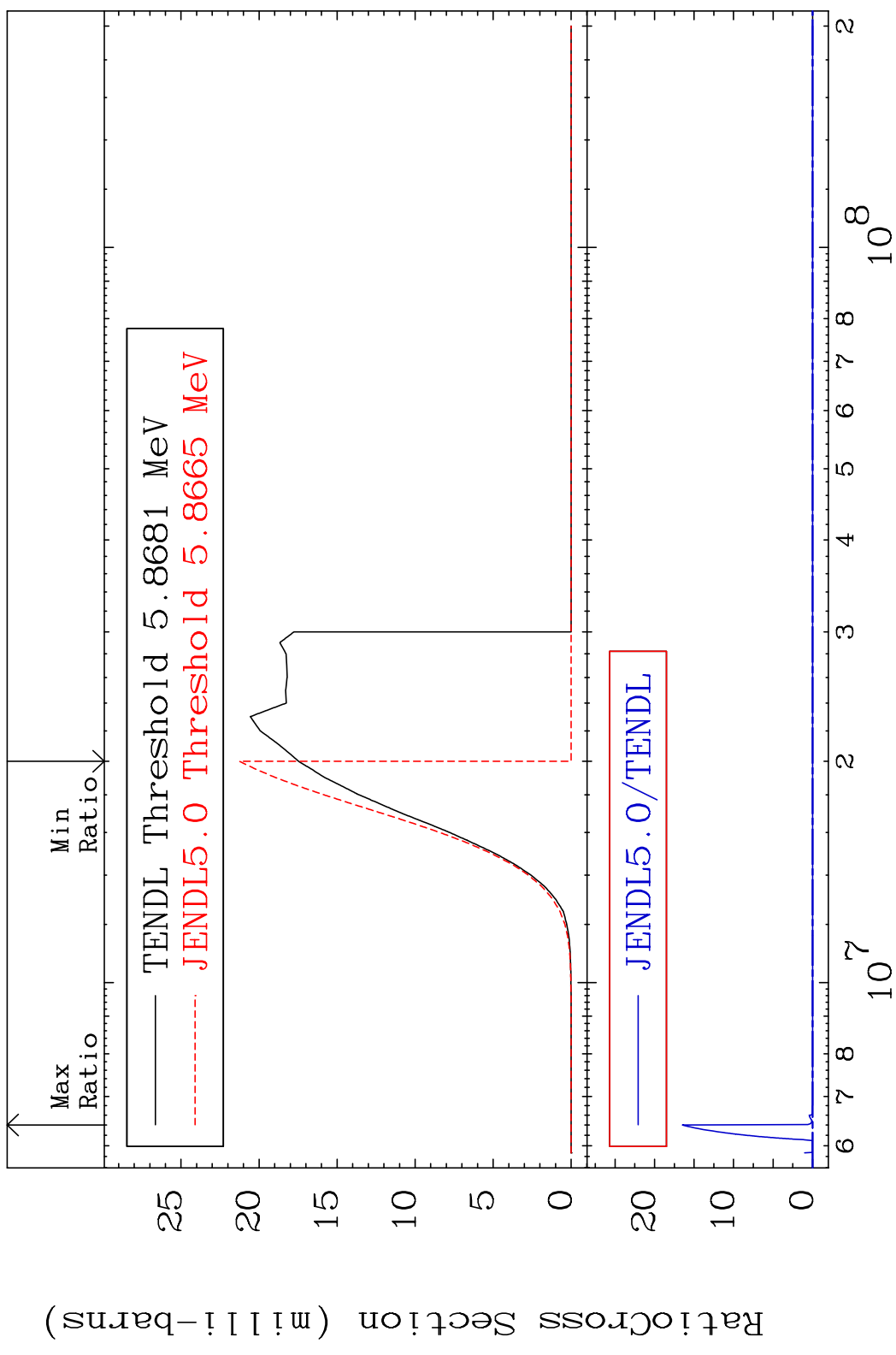
38-Sr-90

MAT 3843

(n,p)

38-Sr-90

Cross Section -100.0 To 9999. %



38

Incident Energy (eV)

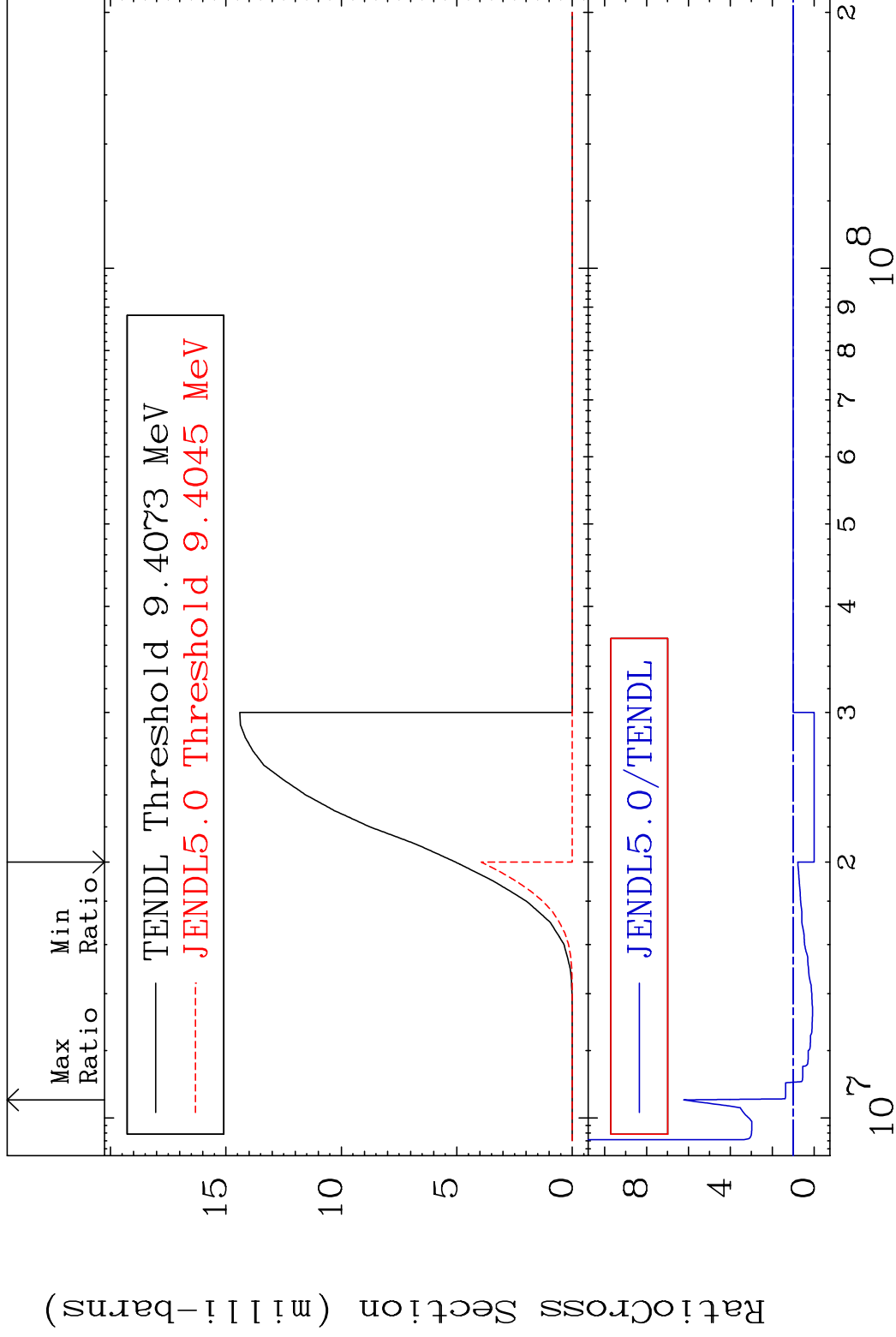
38-Sr-90

MAT 3843

(n,d)

38-Sr-90

Cross Section -100.0 To 523.1 %

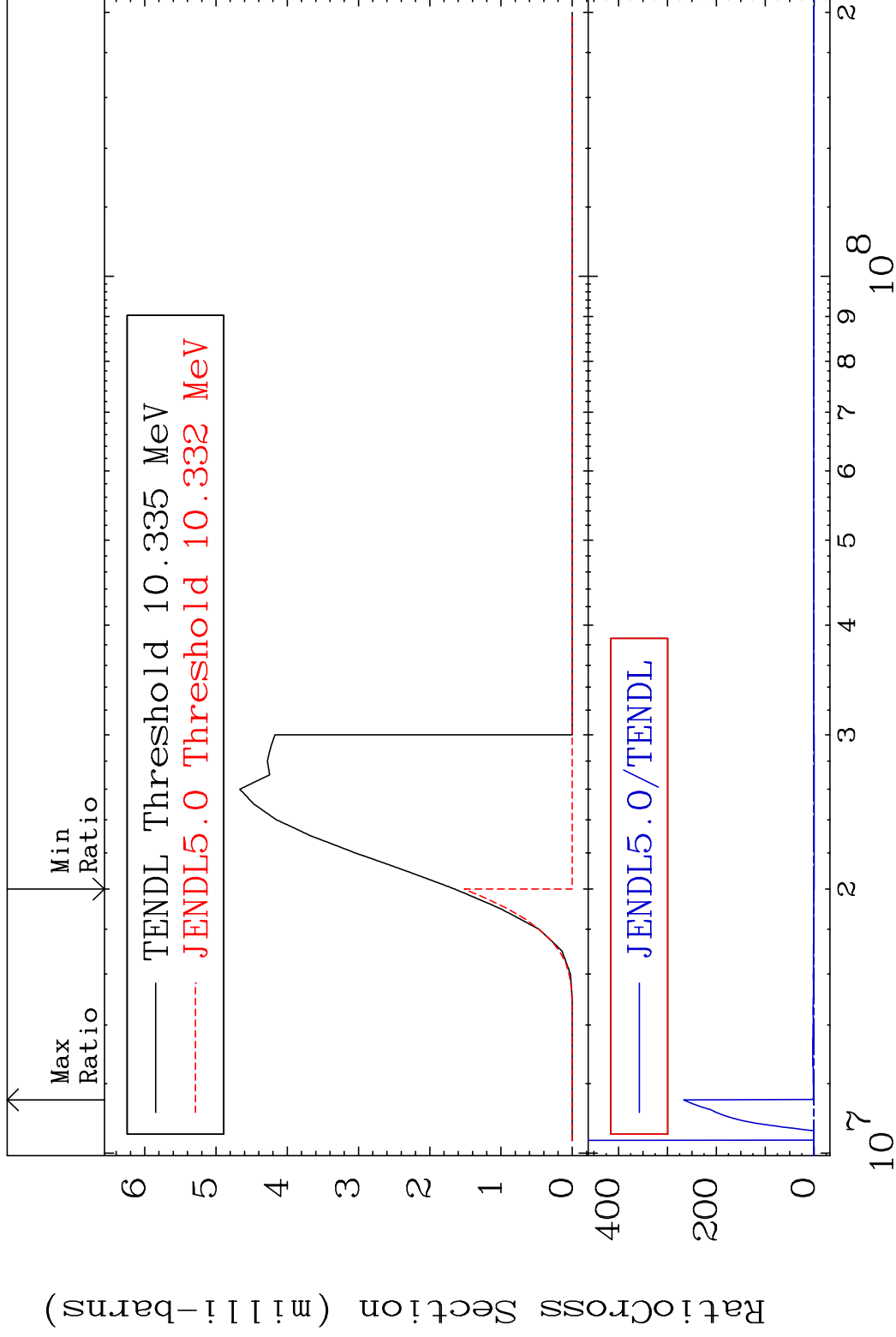


MAT 3843

(n, t)

38-Sr-90

Cross Section -100.0 To 9999. %



40

Incident Energy (eV)

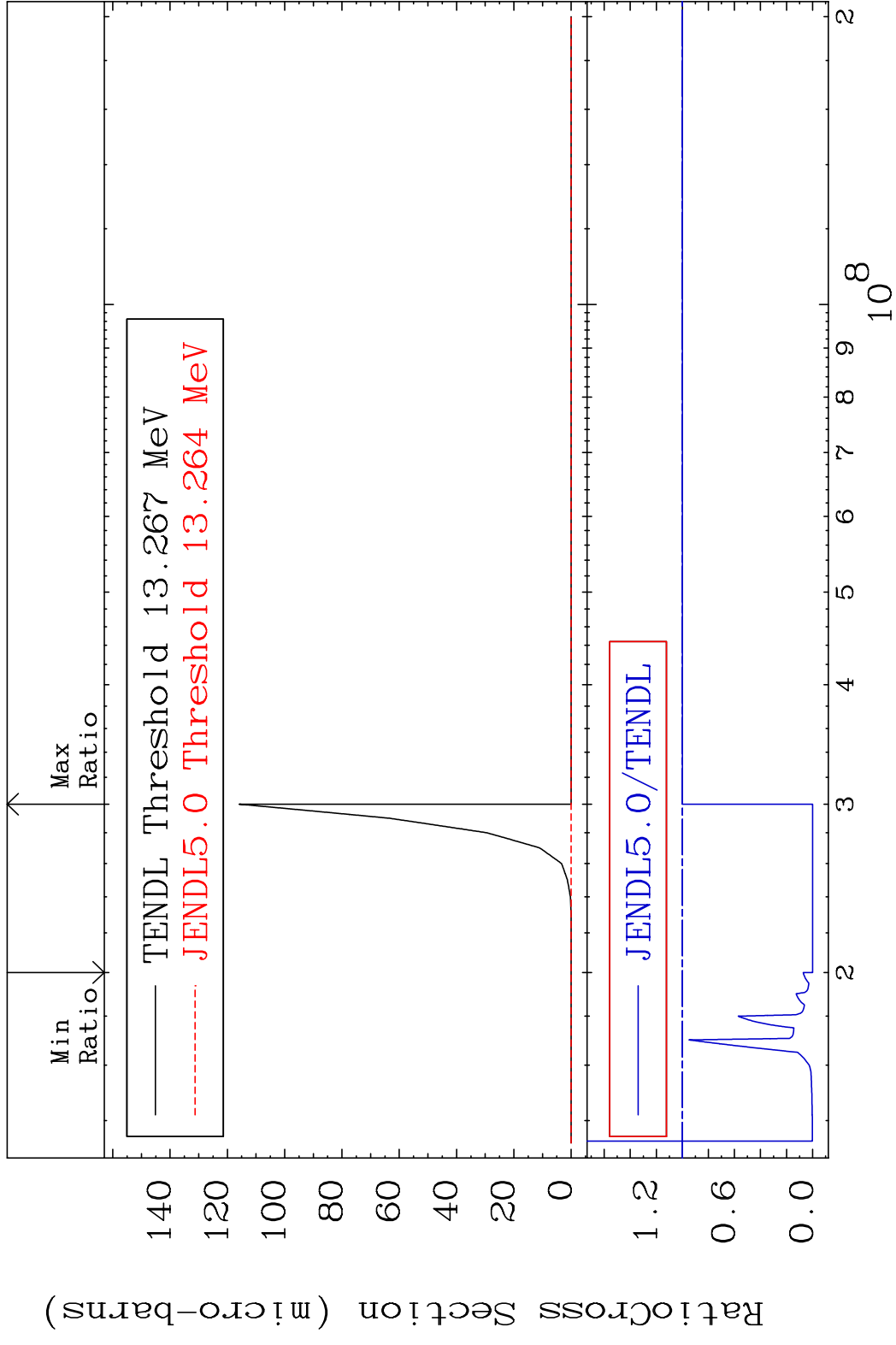
38-Sr-90

MAT 3843

(n, He-3)

38-Sr-90

Cross Section -100.0 To 0.000 %

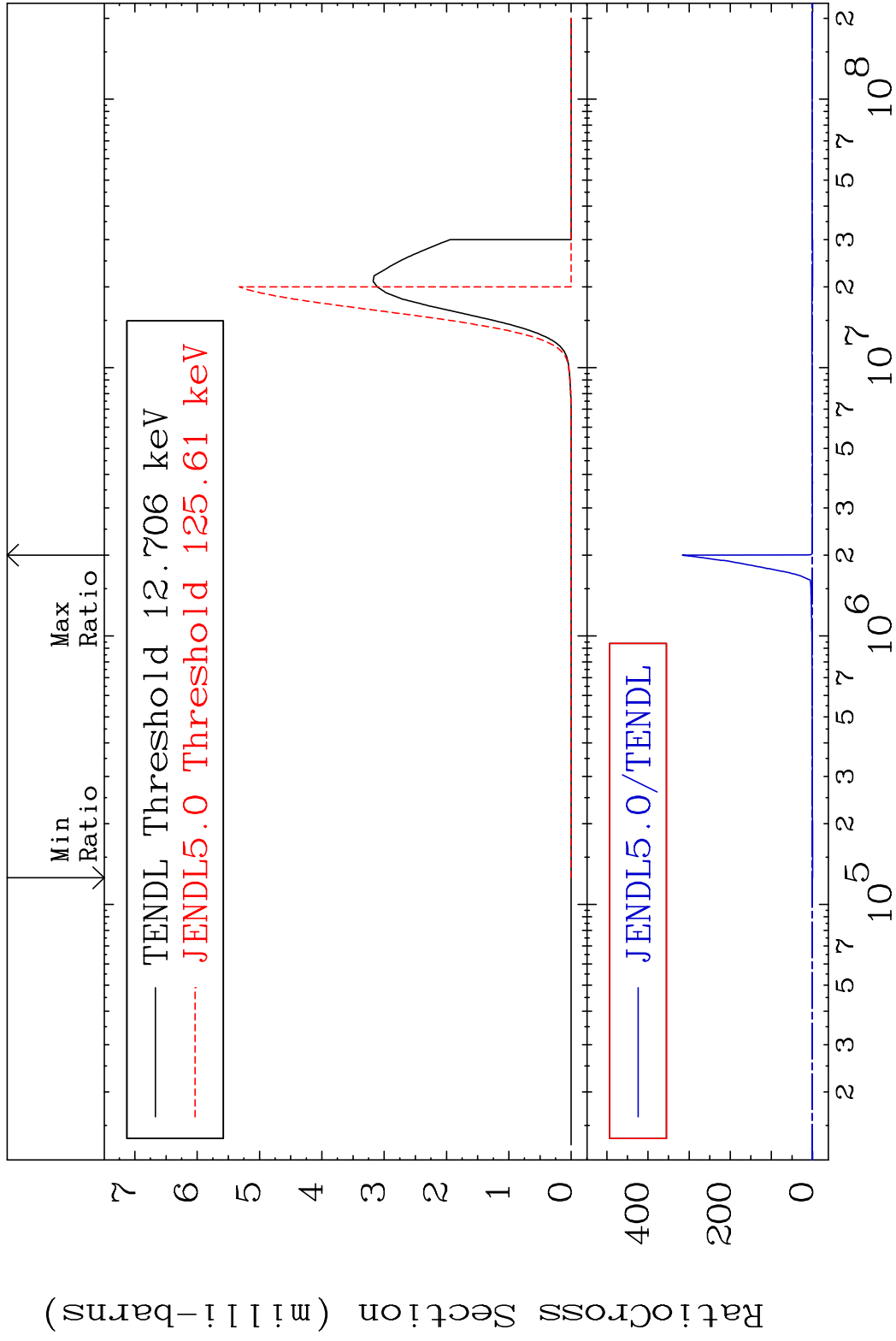


MAT 3843

(n,  $\alpha$ )

38-Sr-90

Cross Section -100.0 To 9999. %



42

Incident Energy (eV)

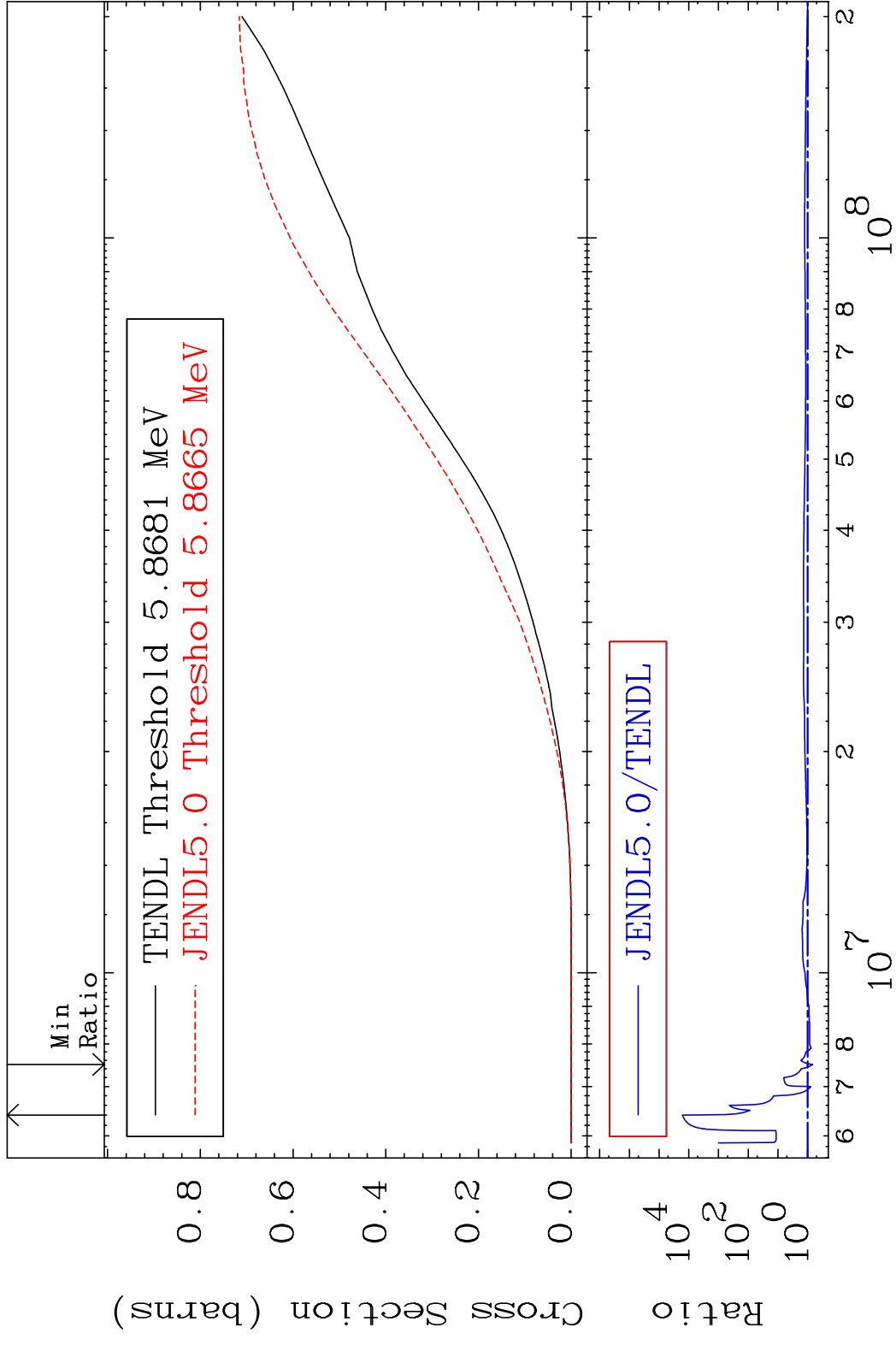
38-Sr-90

MAT 3843

Hydrogen Production

38-Sr-90

Cross Section -31.73 To 9999. %



43

Incident Energy (eV)

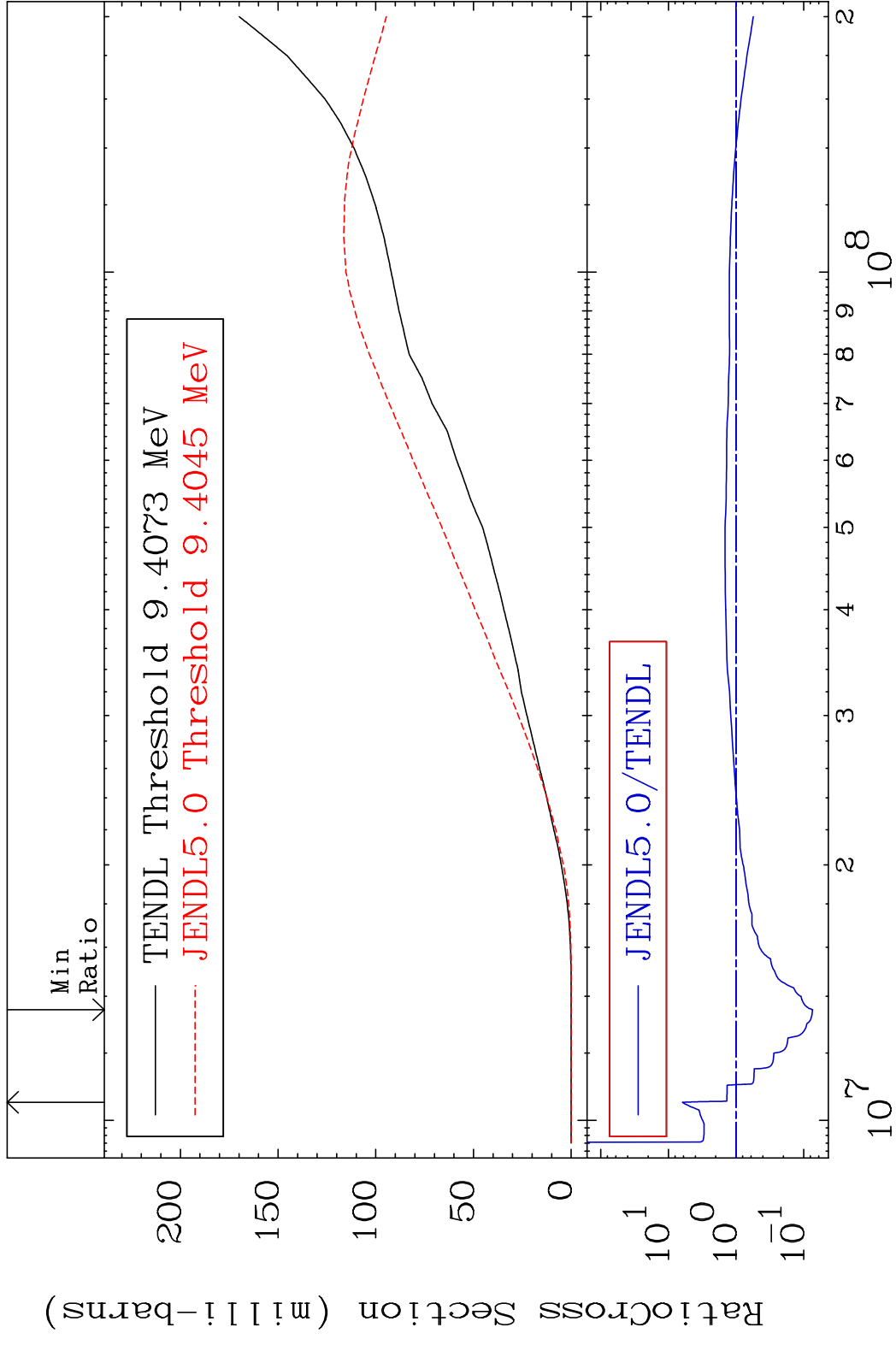
38-Sr-90

MAT 3843

Deuterium Production

38-Sr-90

Cross Section -92.60 To 523.1 %

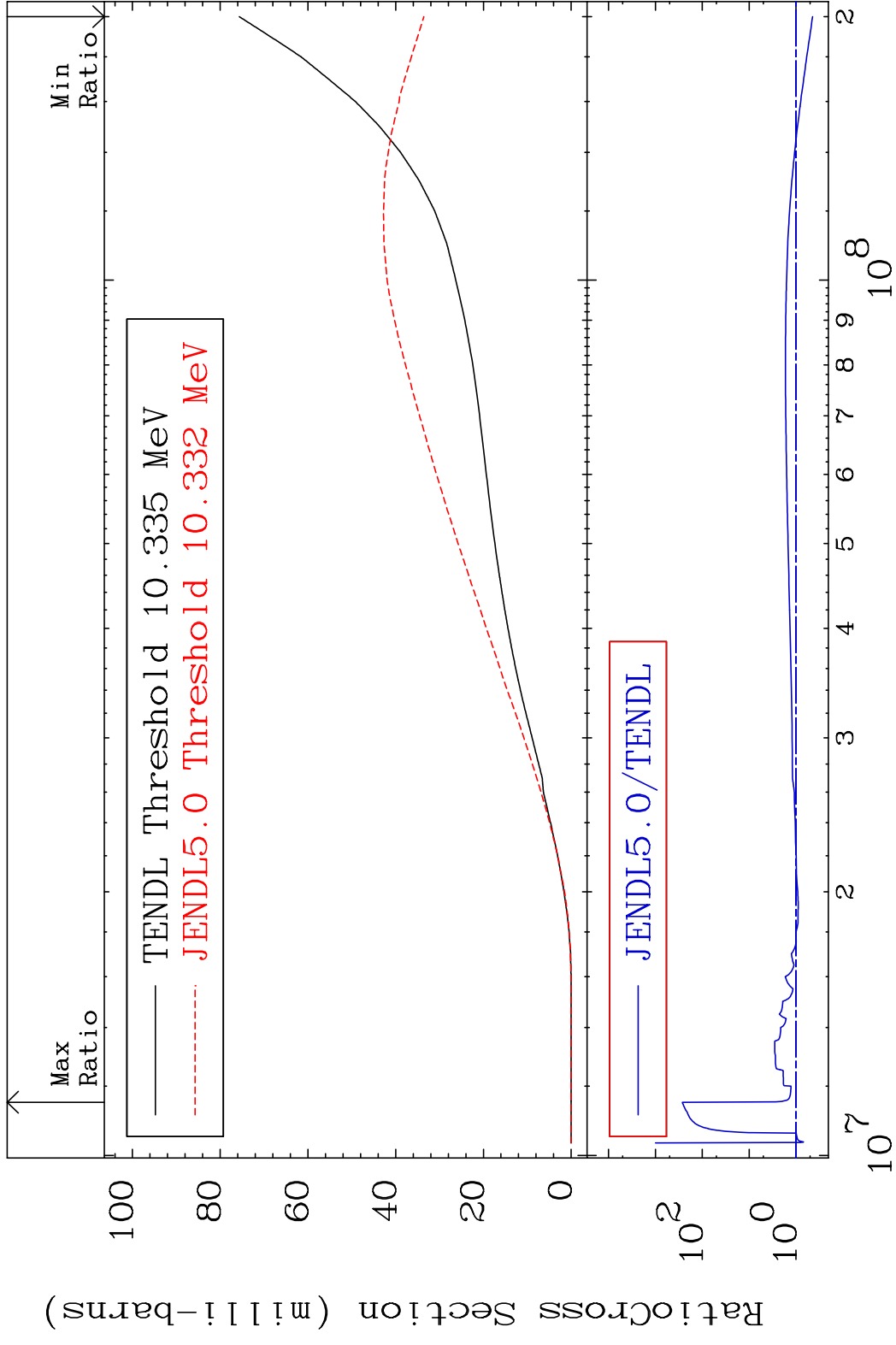


44

Incident Energy (eV)

38-Sr-90

MAT 3843 Tritium Production 38-Sr-90  
 Cross Section -55.61 To 9999. %

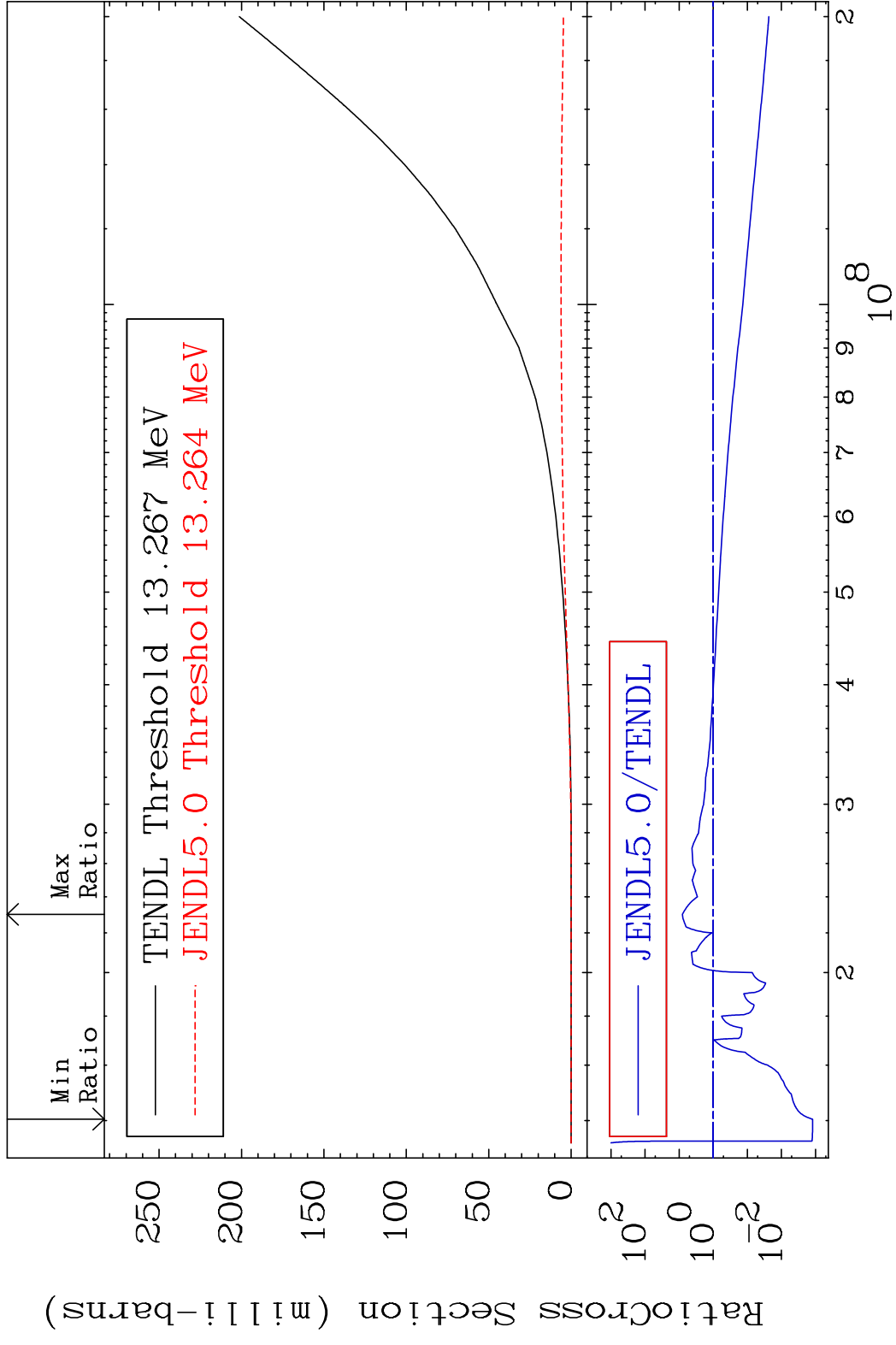


MAT 3843

He-3 Production

38-Sr-90

Cross Section -99.88 To 703.7 %

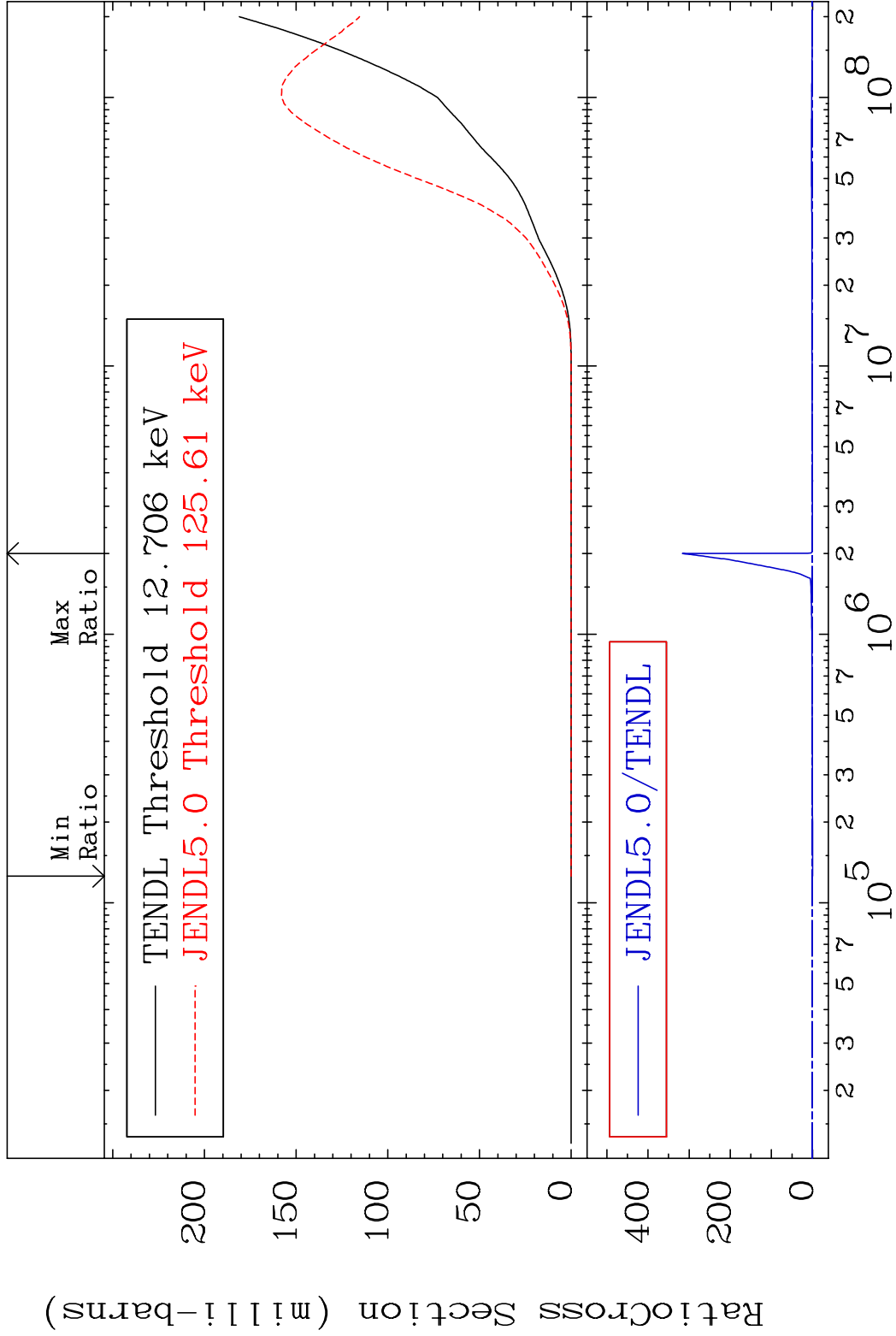


MAT 3843

He-4 Production

38-Sr-90

Cross Section -100.0 To 9999. %



47

Incident Energy (eV)

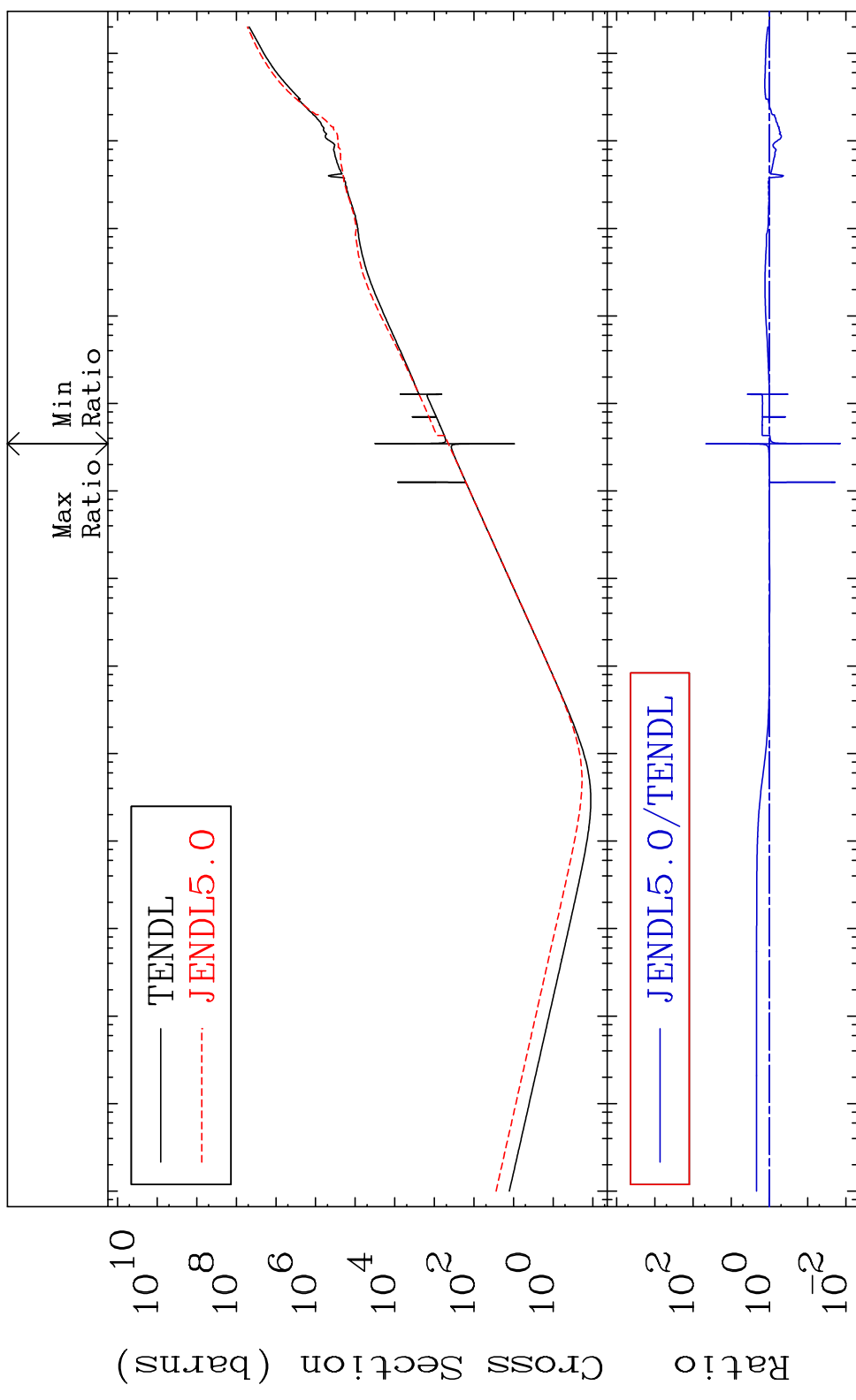
38-Sr-90

MAT 3843

Kerma total (eV-barns)

38-Sr-90

Cross Section -98.61 To 4539. %



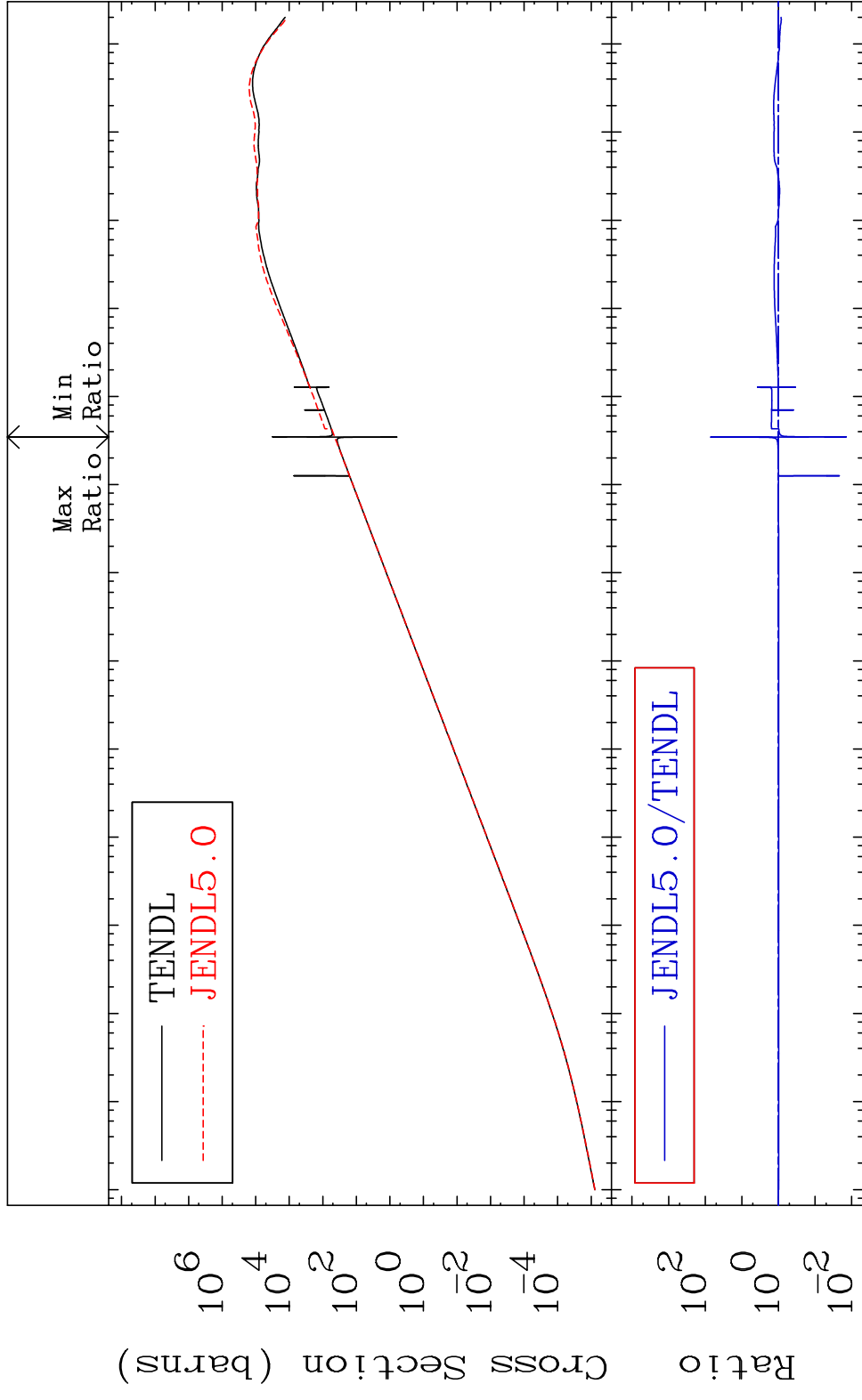
48

Incident Energy (eV)

38-Sr-90

MAT 3843

Kerma elastic Cross Section -98.60 To 6980. %  
38-Sr-90

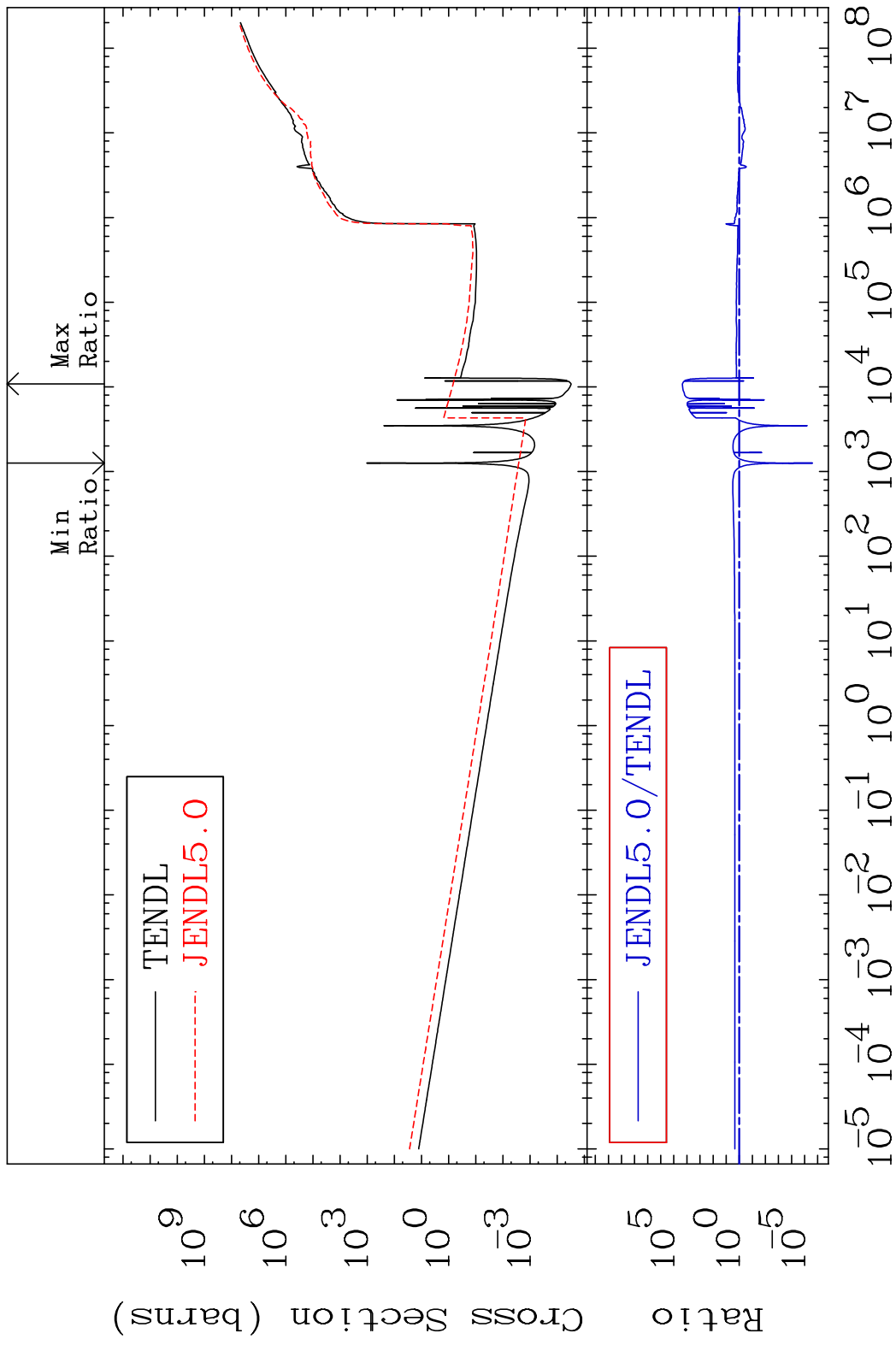


49

Incident Energy (eV)

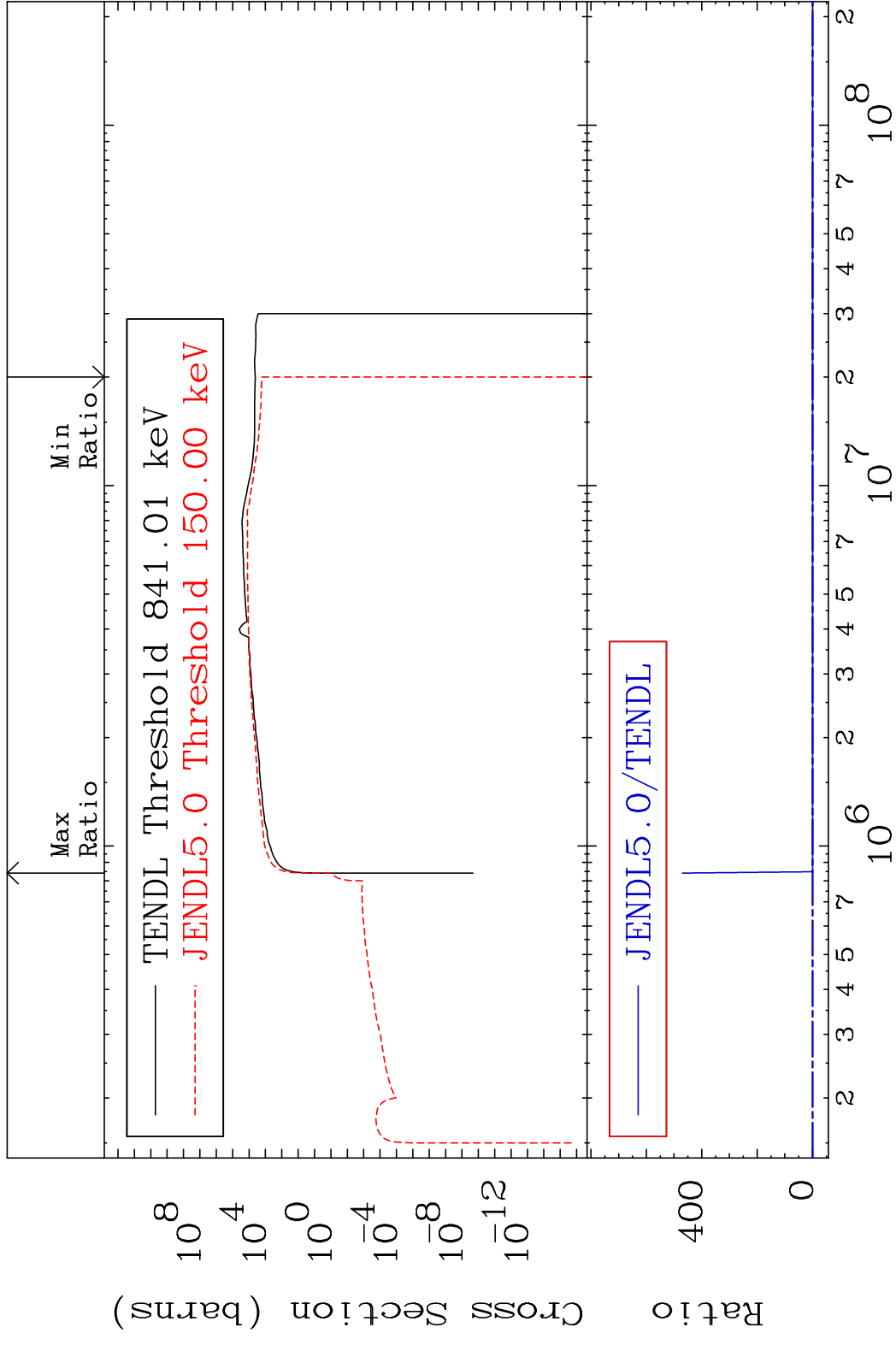
38-Sr-90

MAT 3843 Kerma non-elastic (all but mt2) 38-Sr-90  
 Cross Section -100.0 To 9999. %

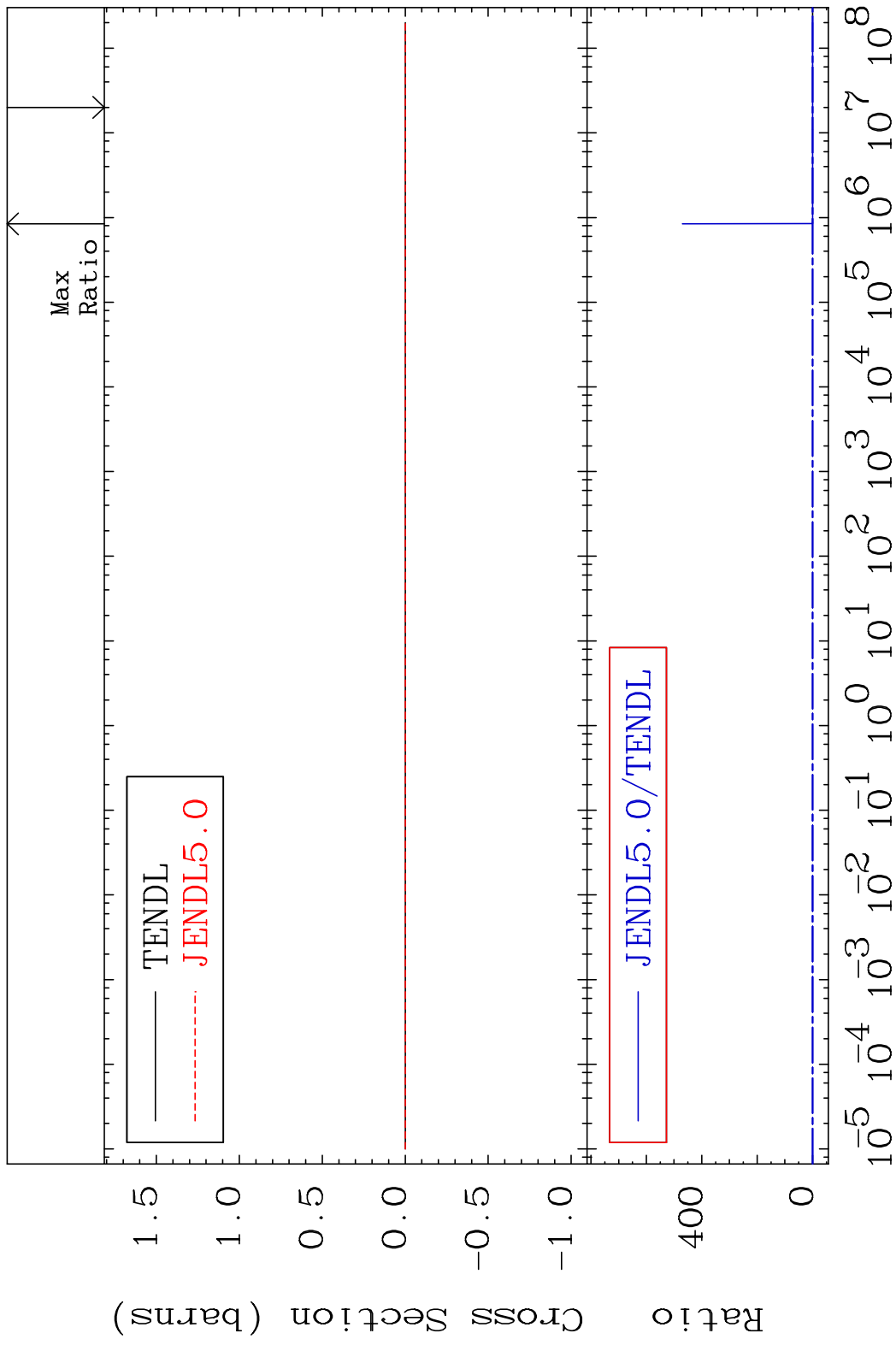


50 Incident Energy (eV) 38-Sr-90

MAT 3843 Kerma inelastic (mt51-91) 38-Sr-90  
 Cross Section -100.0 To 9999. %

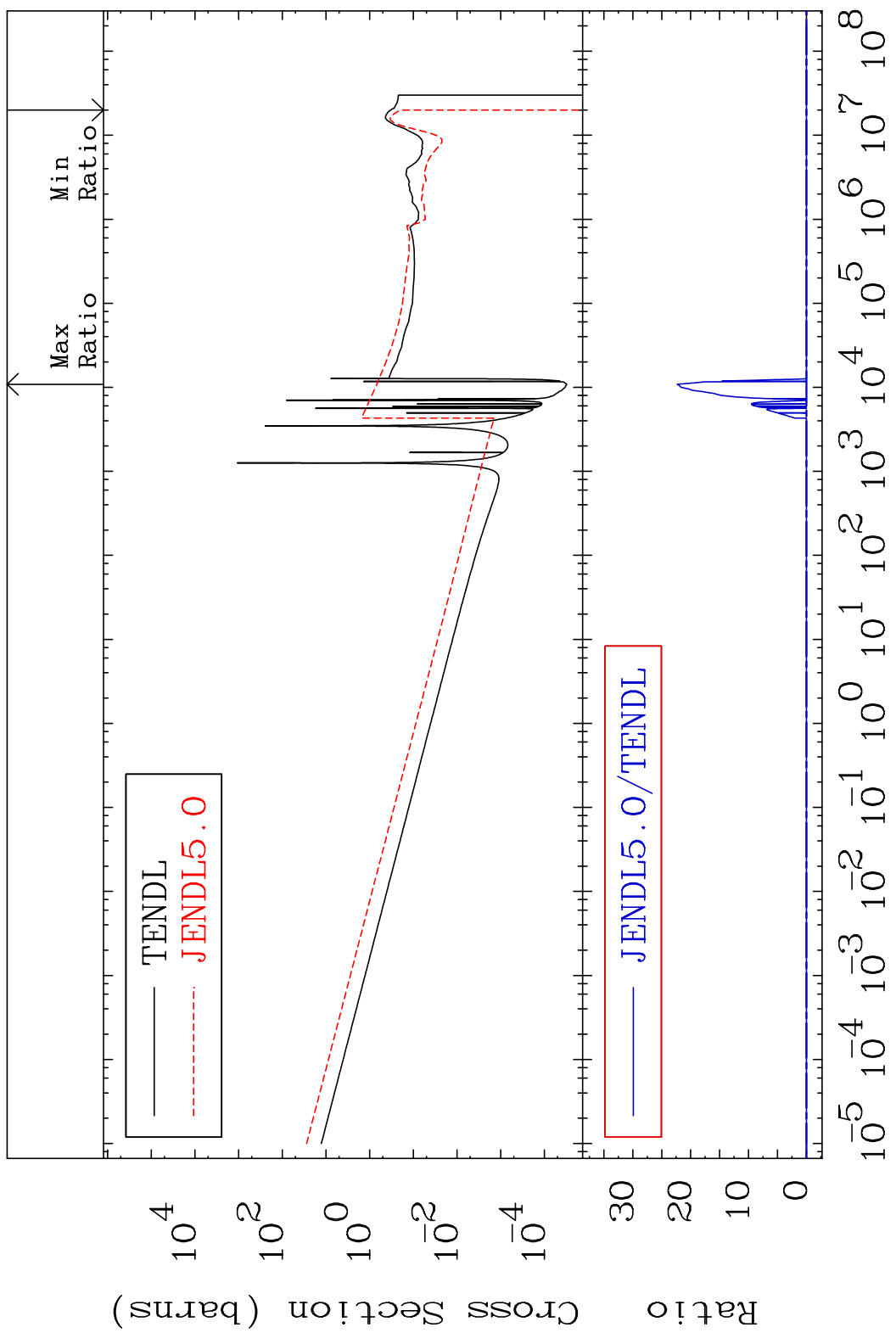


MAT 3843 Kerma fission (mt18 or mt19-20-21-38) 38-Sr-90  
 Cross Section -100.0 To 9999. %



MAT 3843

Kerma capture (mt102) 38-Sr-90  
Cross Section -100.0 To 9999. %

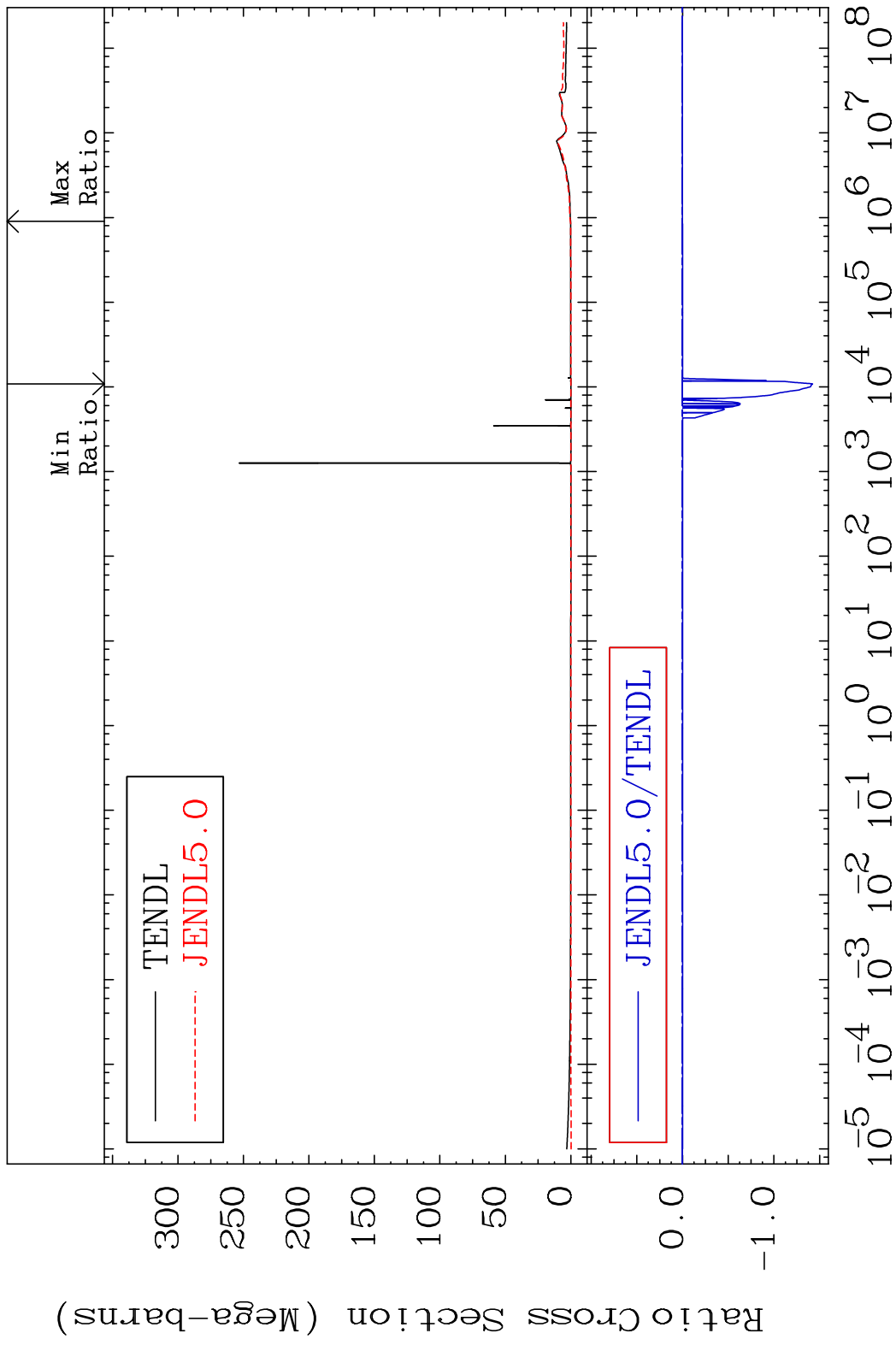


53

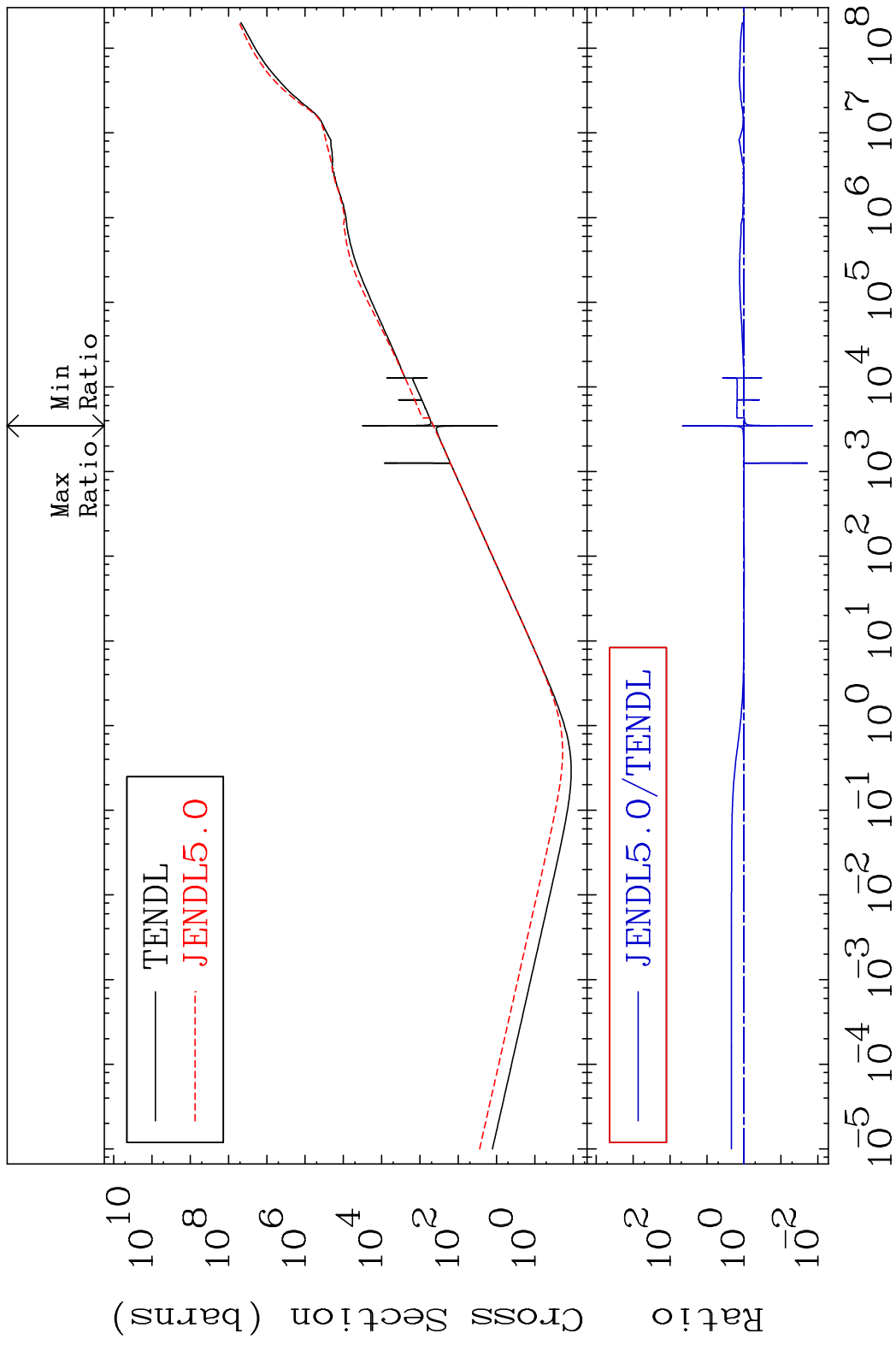
Incident Energy (eV)

38-Sr-90

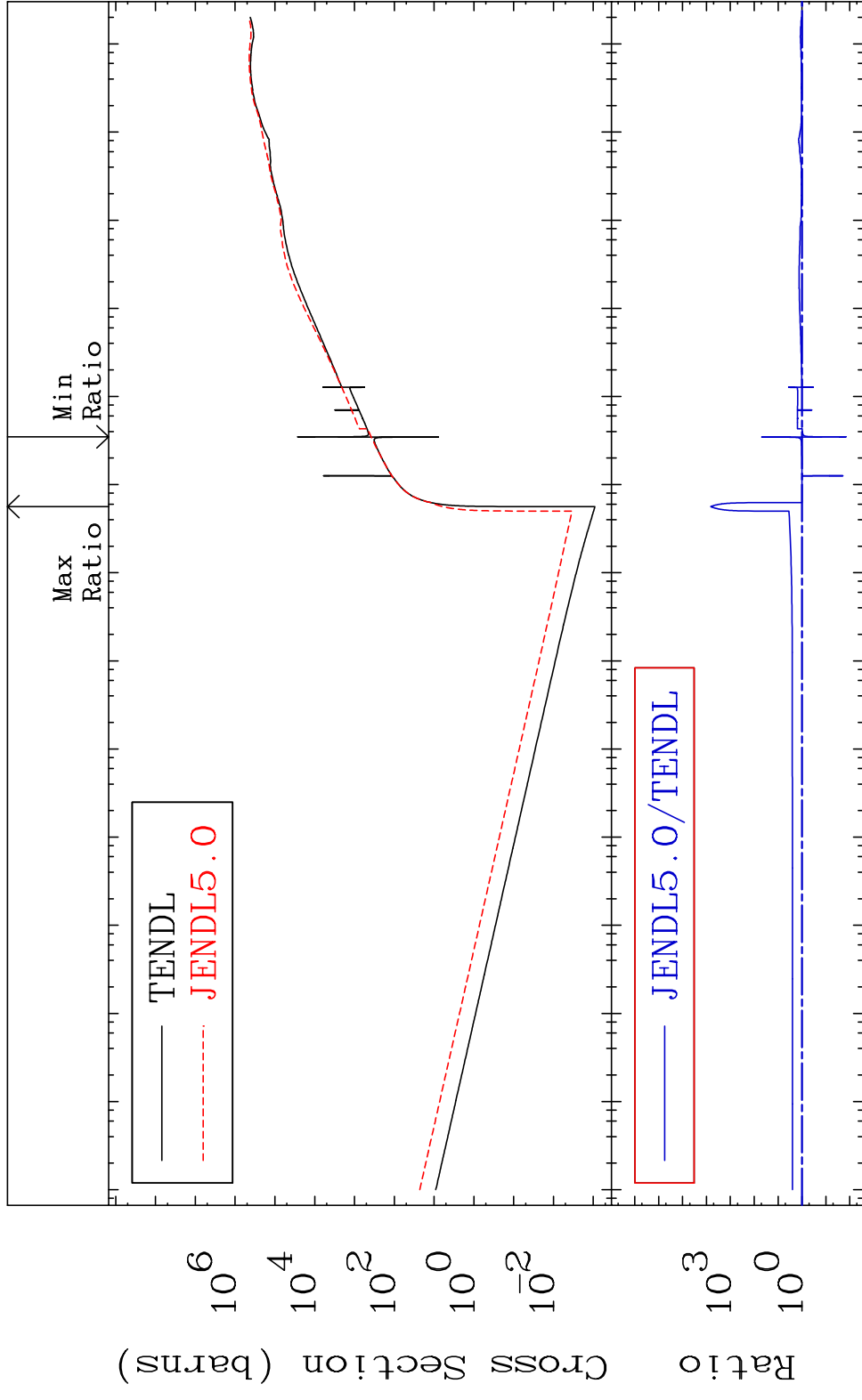
MAT 3843 Total photon (eV-barns) 38-Sr-90  
 Cross Section -9999. To 124.4 %



MAT 3843 Total kinematic kerma (high limit) 38-Sr-90  
Cross Section -98.61 To 4539. %

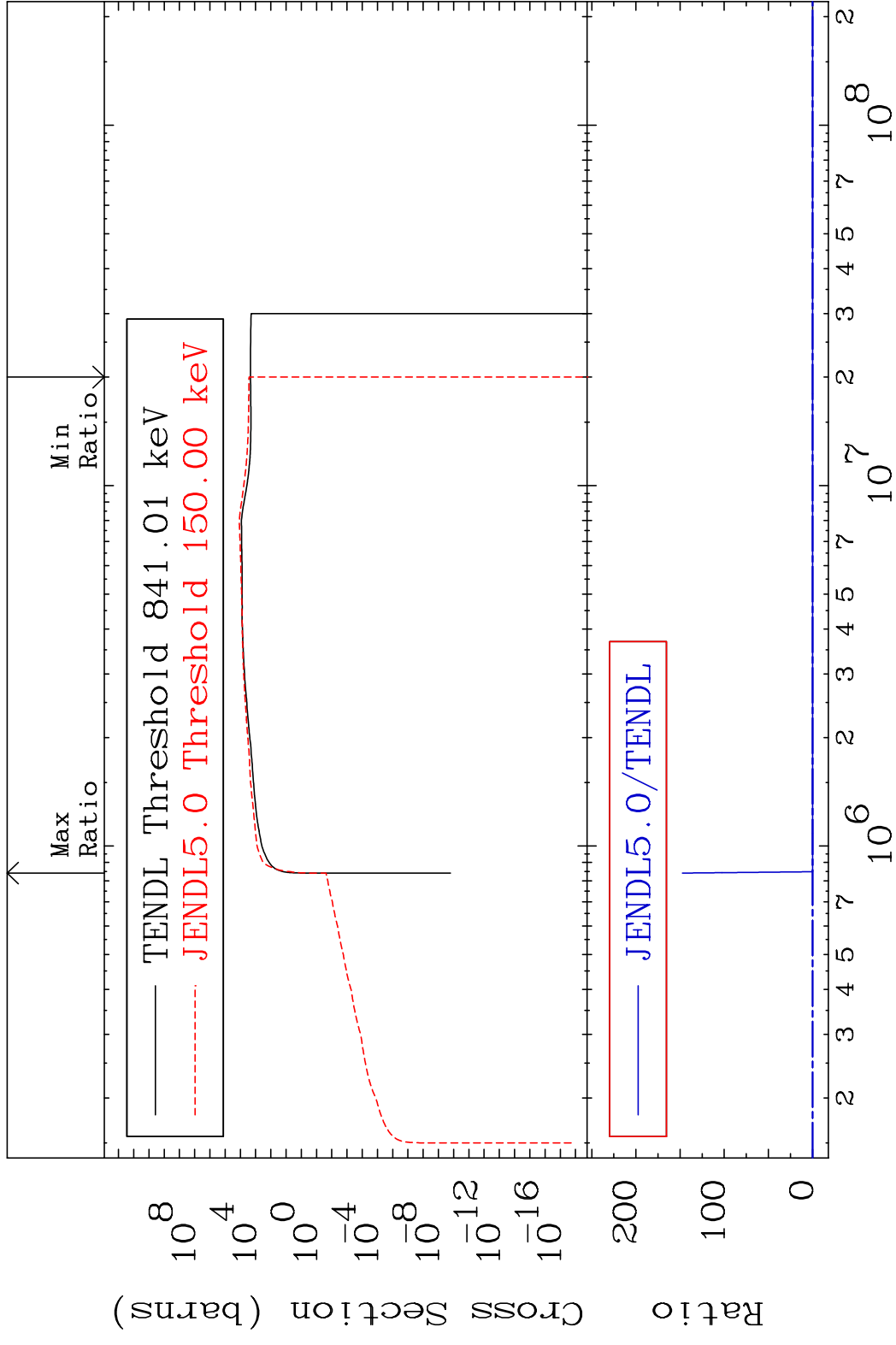


MAT 3843      Dpa total (eV-barns)      38-Sr-90  
 Cross Section      -98.61 To 9999. %

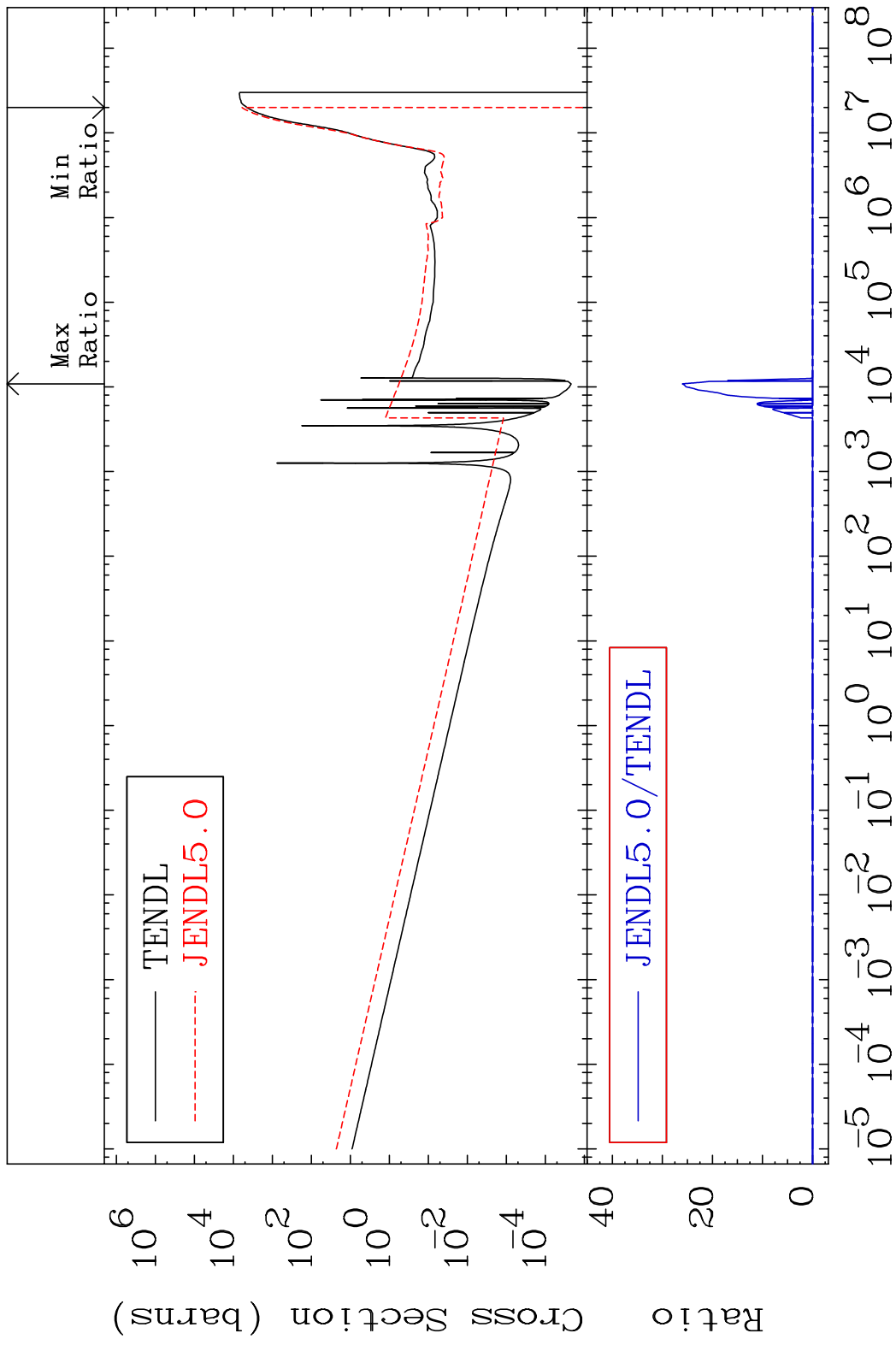




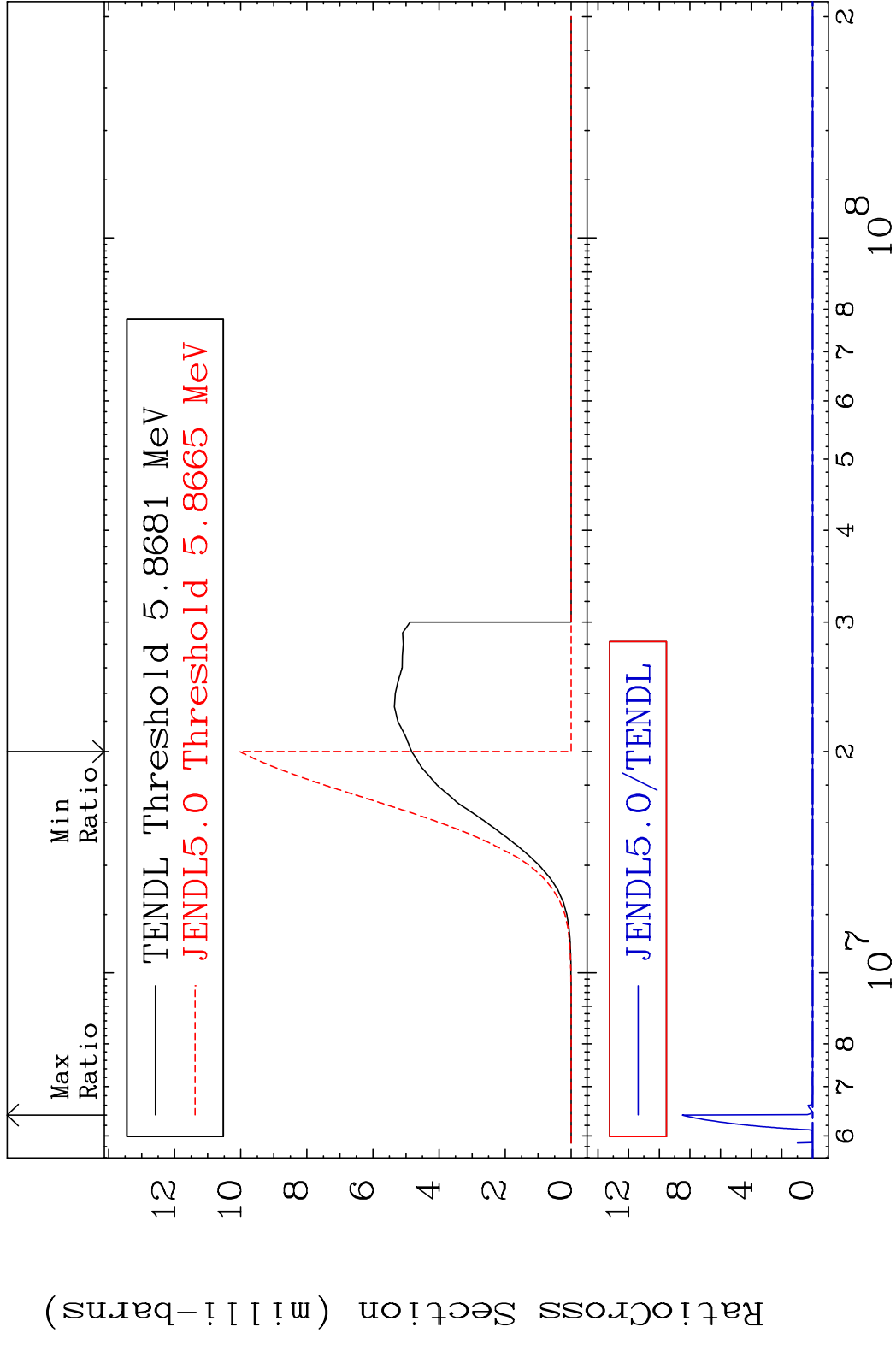
MAT 3843 Dpa inelastic (mt51-91) 38-Sr-90  
 Cross Section -100.0 To 9999. %



MAT 3843 Dpa disappearance (mt102 -120) 38-Sr-90  
 Cross Section -100.0 To 9999. %

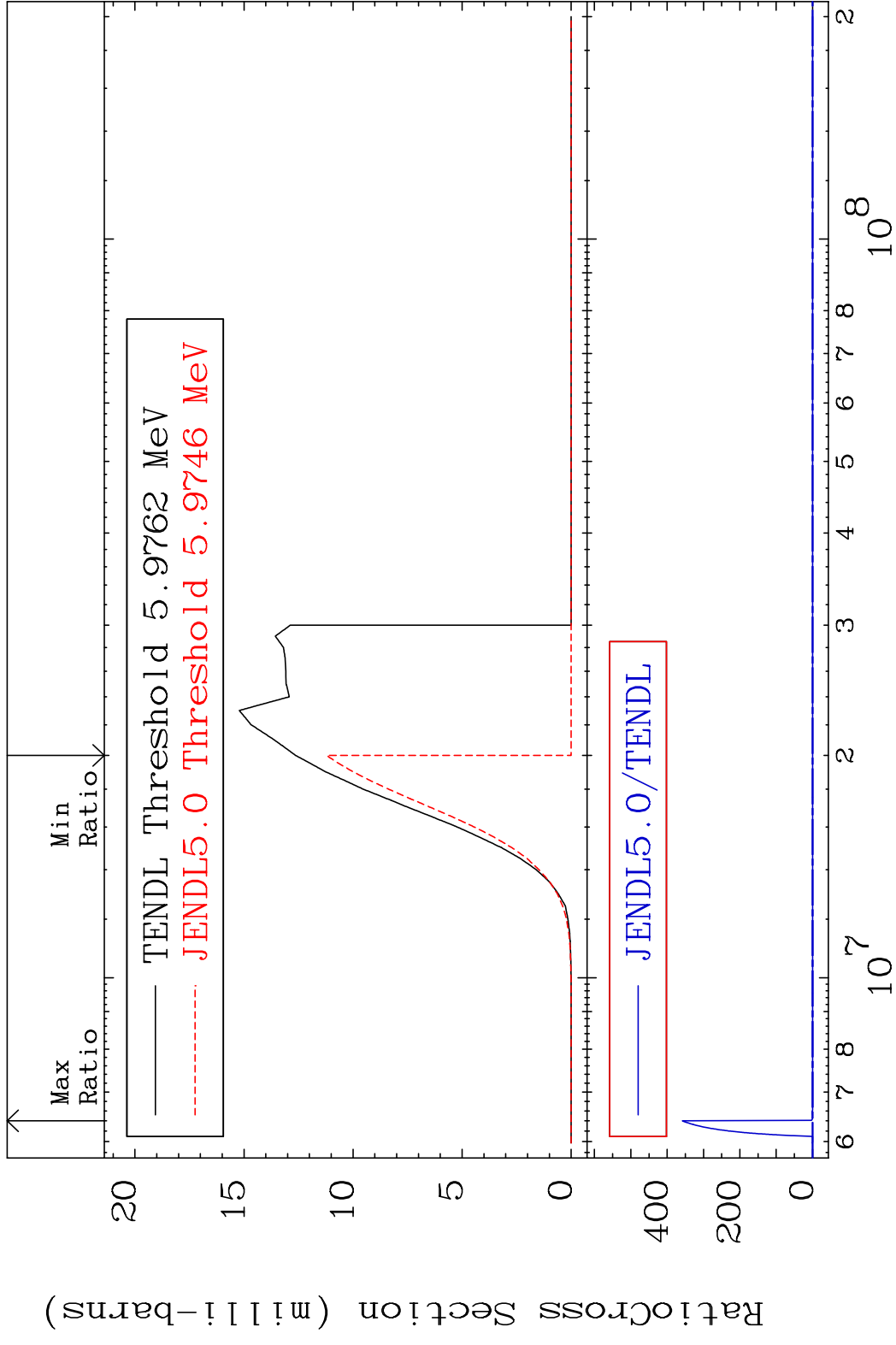


MAT 3843 (n, p):37-Rb-90g 38-Sr-90  
 Radionuclide Production Cross Section Ratio



60 Incident Energy (eV) 38-Sr-90

MAT 3843 (n,p):37-Rb-90m1 38-Sr-90  
 Radionuclide Production Cross Section Ratio

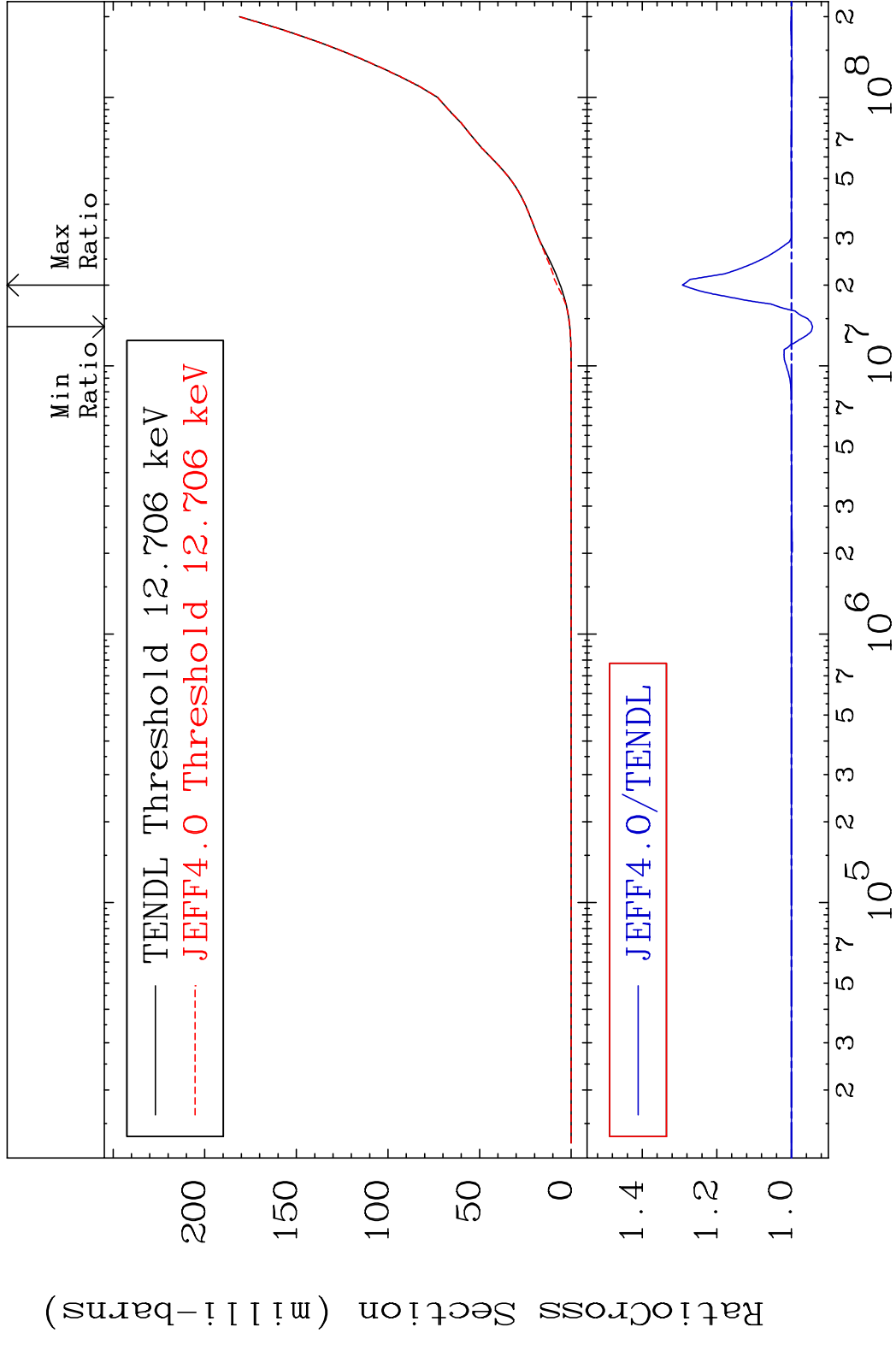


MAT 3843

He-4 Production

38-Sr-90

Cross Section -5.668 To 29.25 %

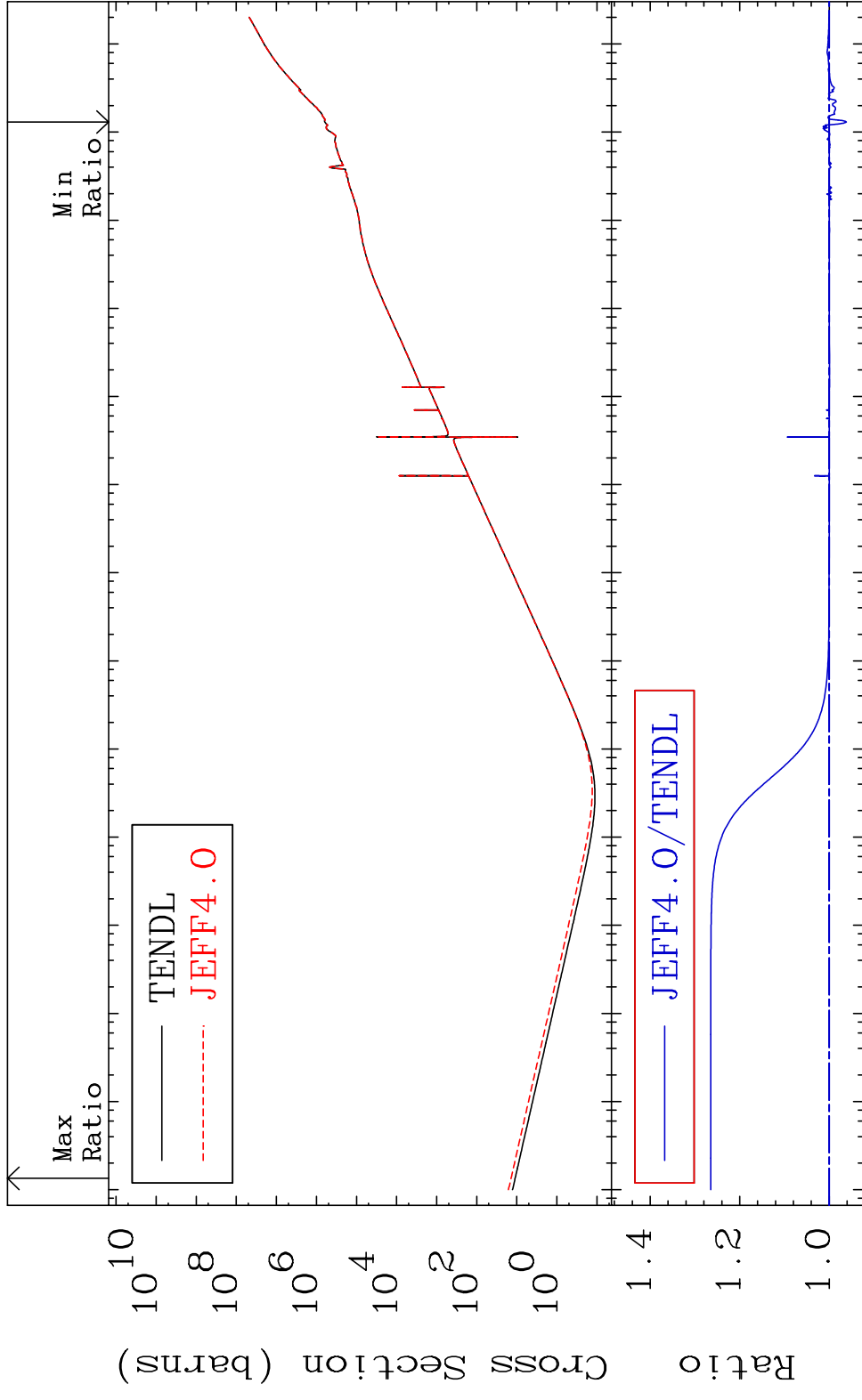


MAT 3843

Kerma total (eV-barns)

38-Sr-90

Cross Section -3.832 To 26.48 %



10<sup>10</sup>  
10<sup>8</sup>  
10<sup>6</sup>  
10<sup>4</sup>  
10<sup>2</sup>  
10<sup>0</sup>  
10<sup>-2</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>

63

Incident Energy (eV)

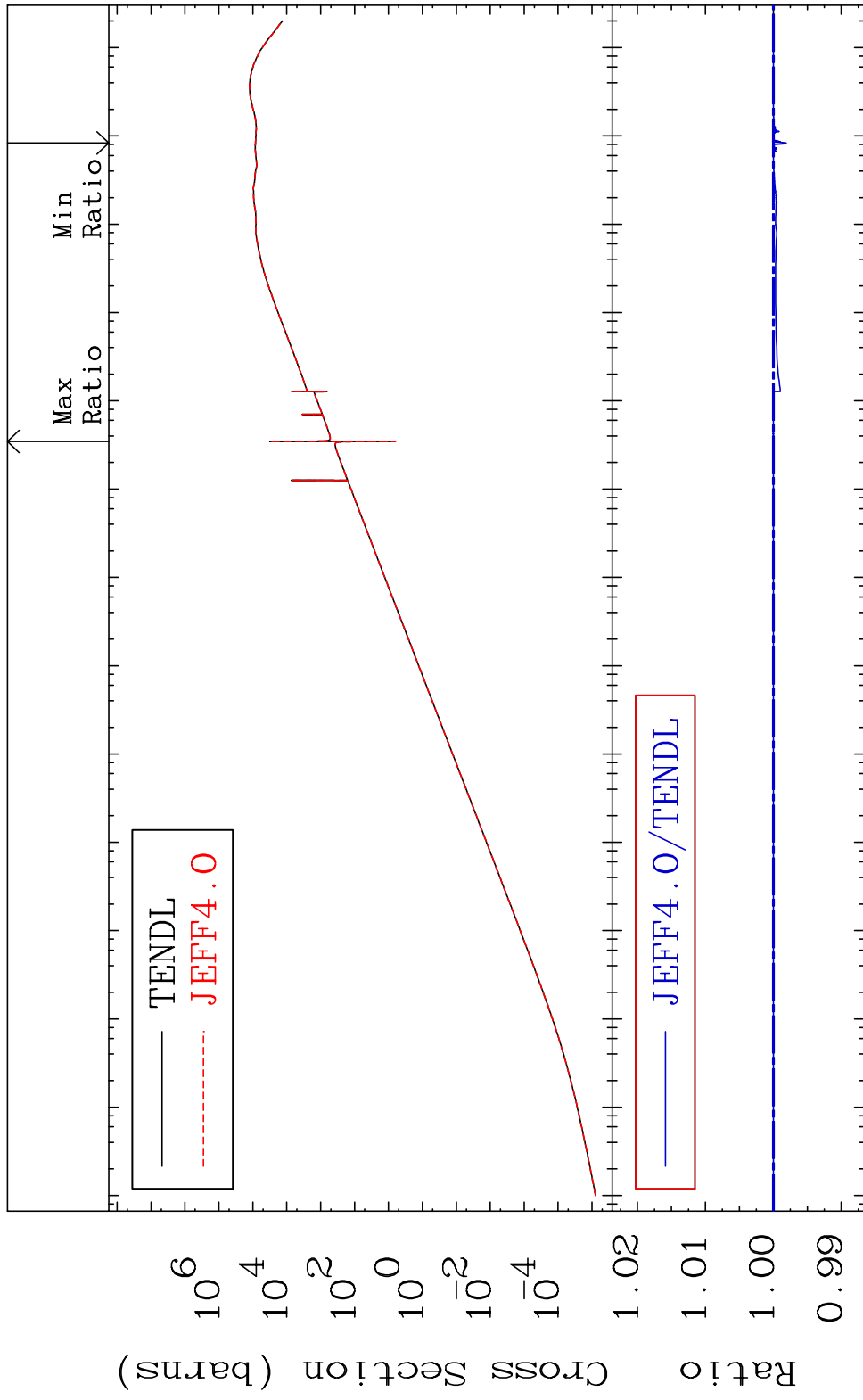
38-Sr-90

MAT 3843

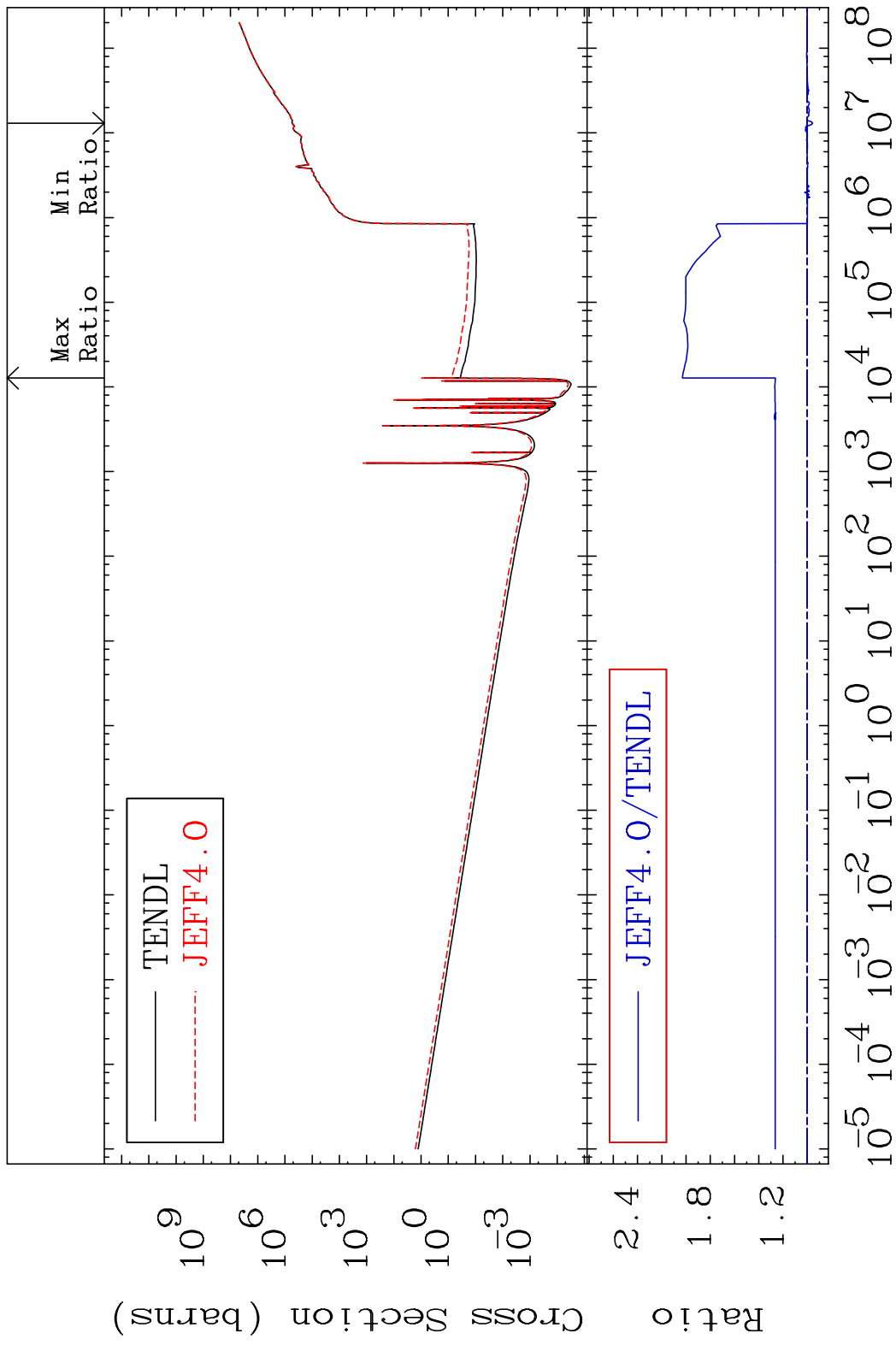
Kerma elastic

38-Sr-90

Cross Section -0.188 To 0.009 %

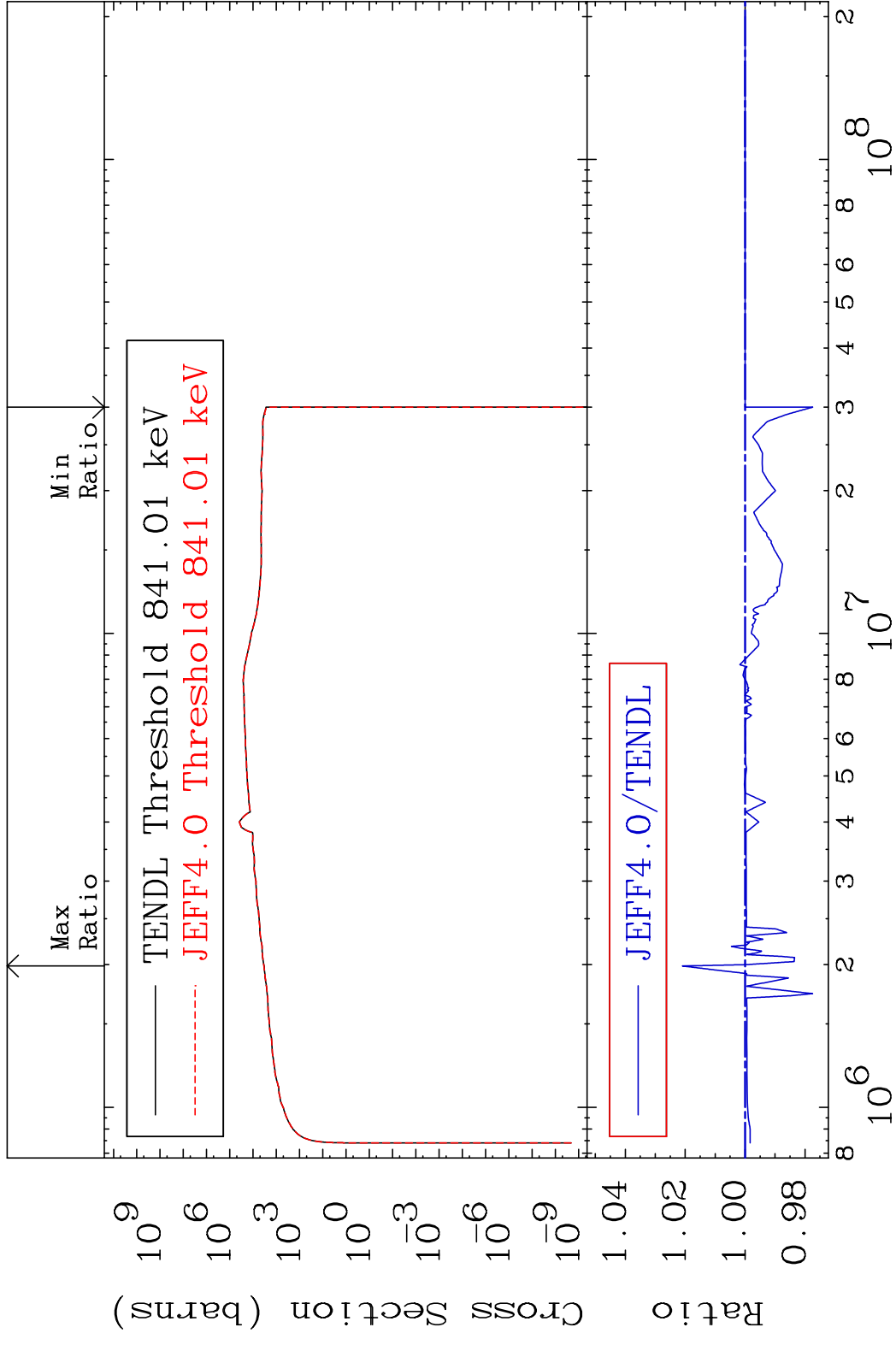


MAT 3843 Kerma non-elastic (all but mt2) 38-Sr-90  
 Cross Section -4.401 To 103.0 %

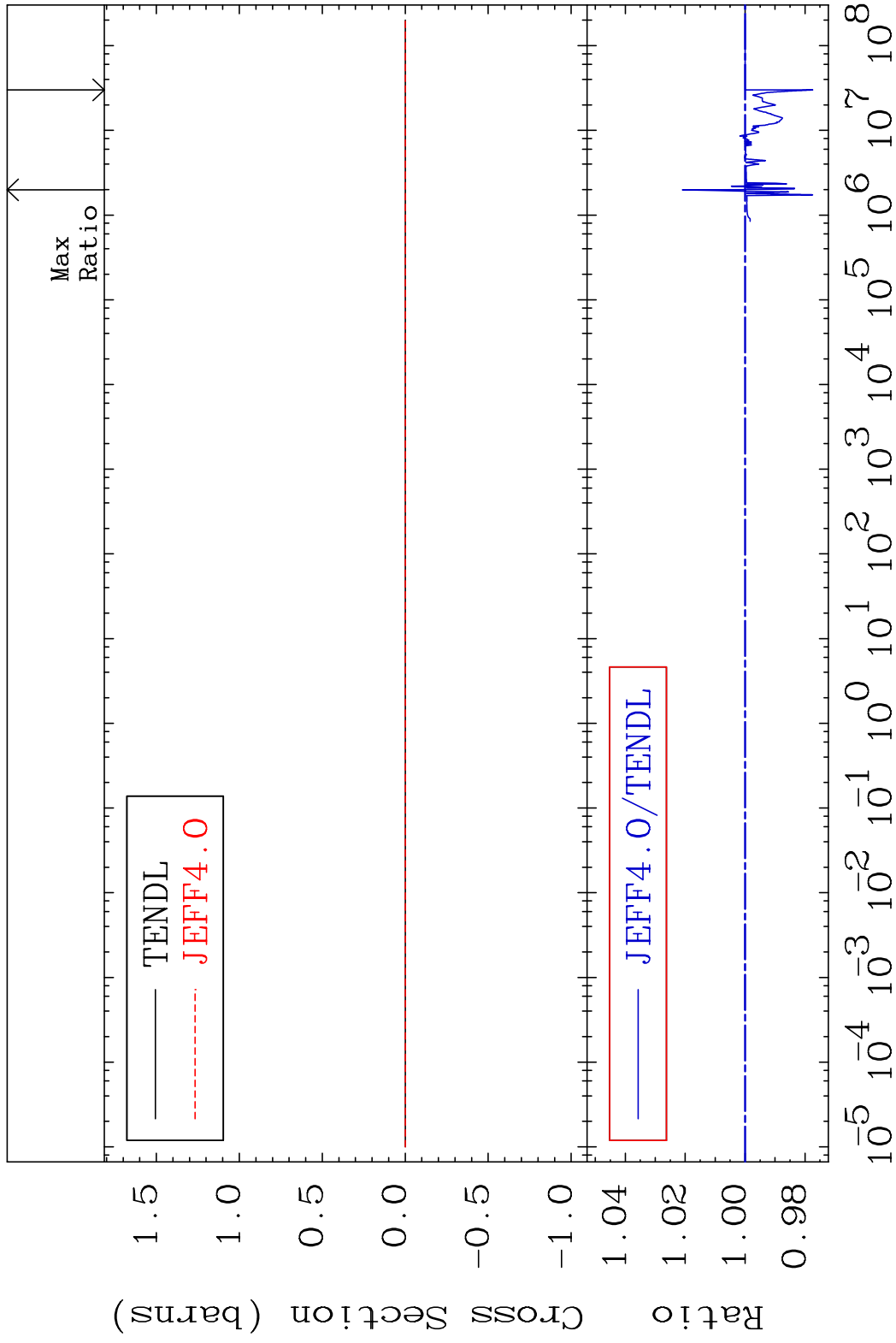


65 Incident Energy (eV) 38-Sr-90

MAT 3843 Kerma inelastic (mt51-91) 38-Sr-90  
 Cross Section -2.253 To 2.094 %

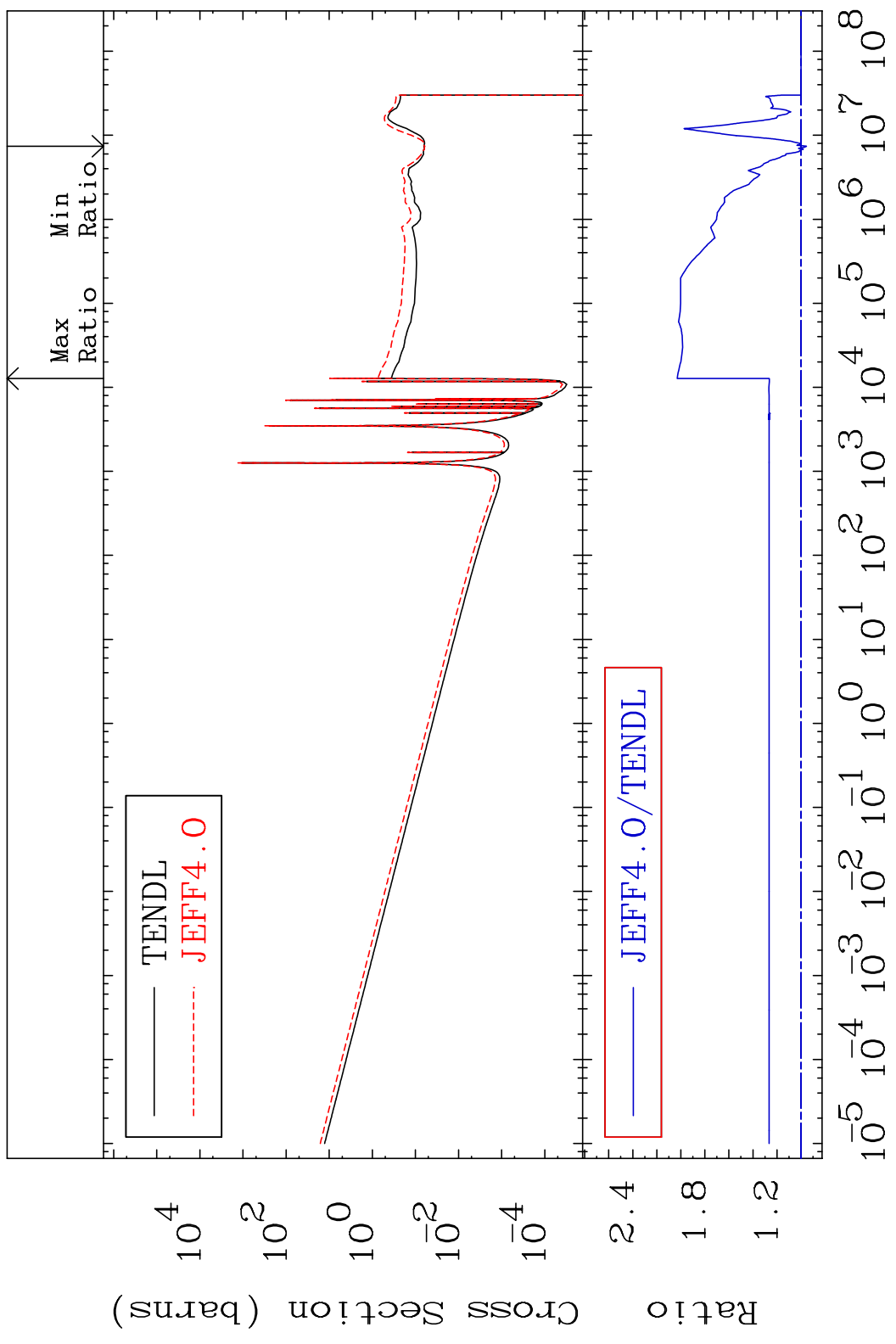


MAT 3843 Kerma fission (mt18 or mt19-20-21-38) 38-Sr-90  
 Cross Section -2.253 To 2.094 %



MAT 3843

Kerma capture (mt102) 38-Sr-90  
Cross Section -4.478 To 103.0 %

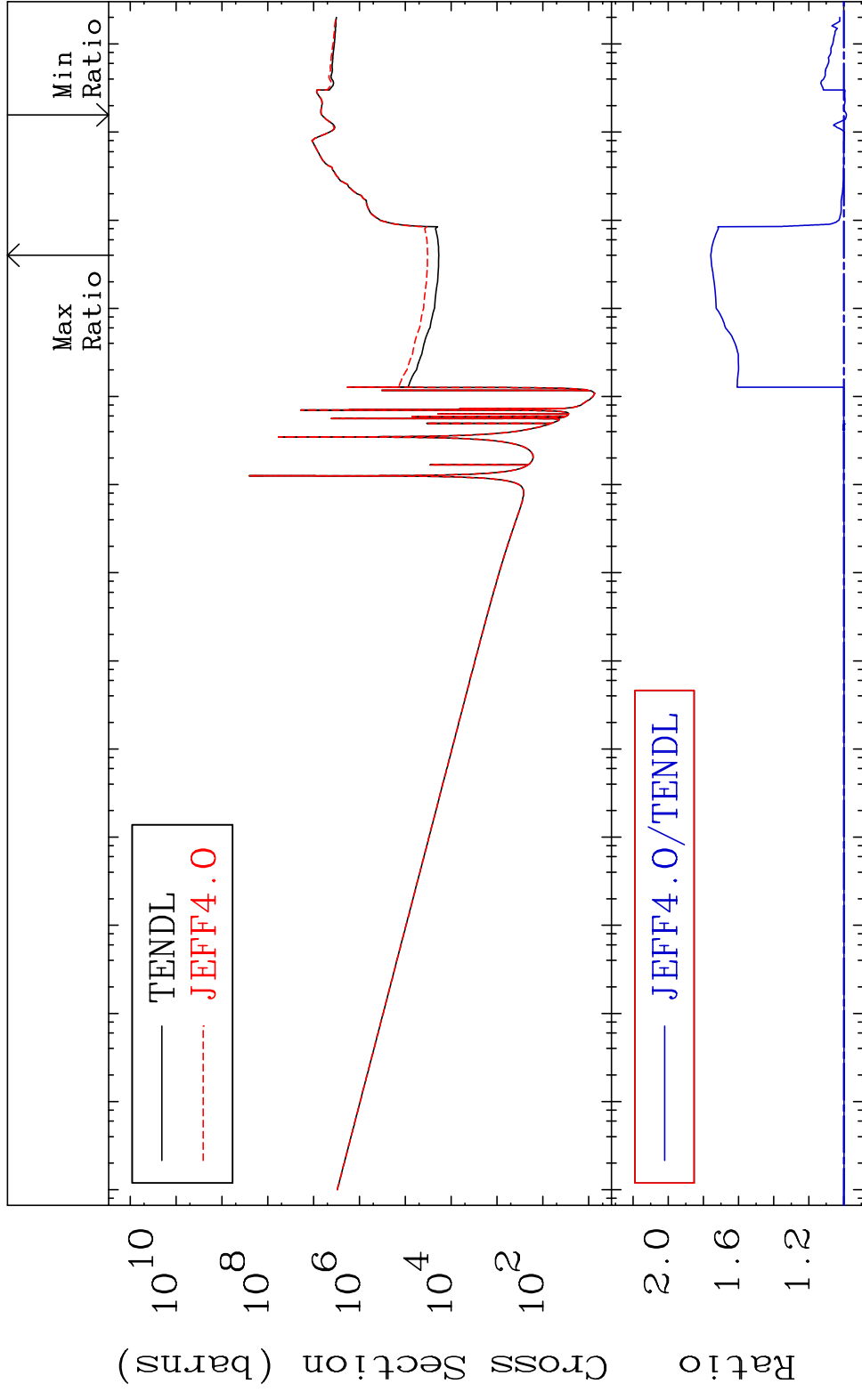


68

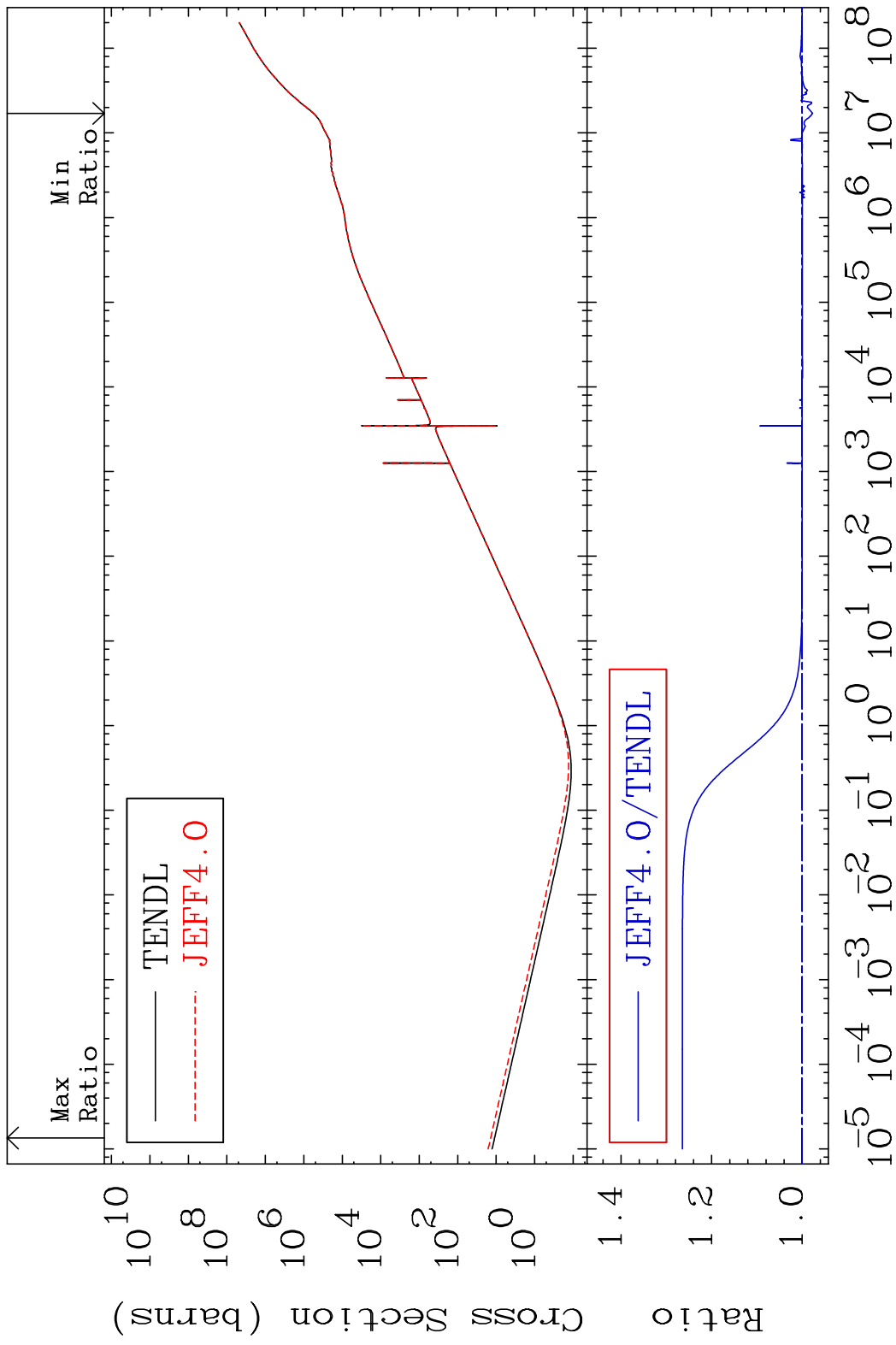
Incident Energy (eV)

38-Sr-90

MAT 3843 Total photon (eV-barns) 38-Sr-90  
 Cross Section -1.398 To 75.80 %

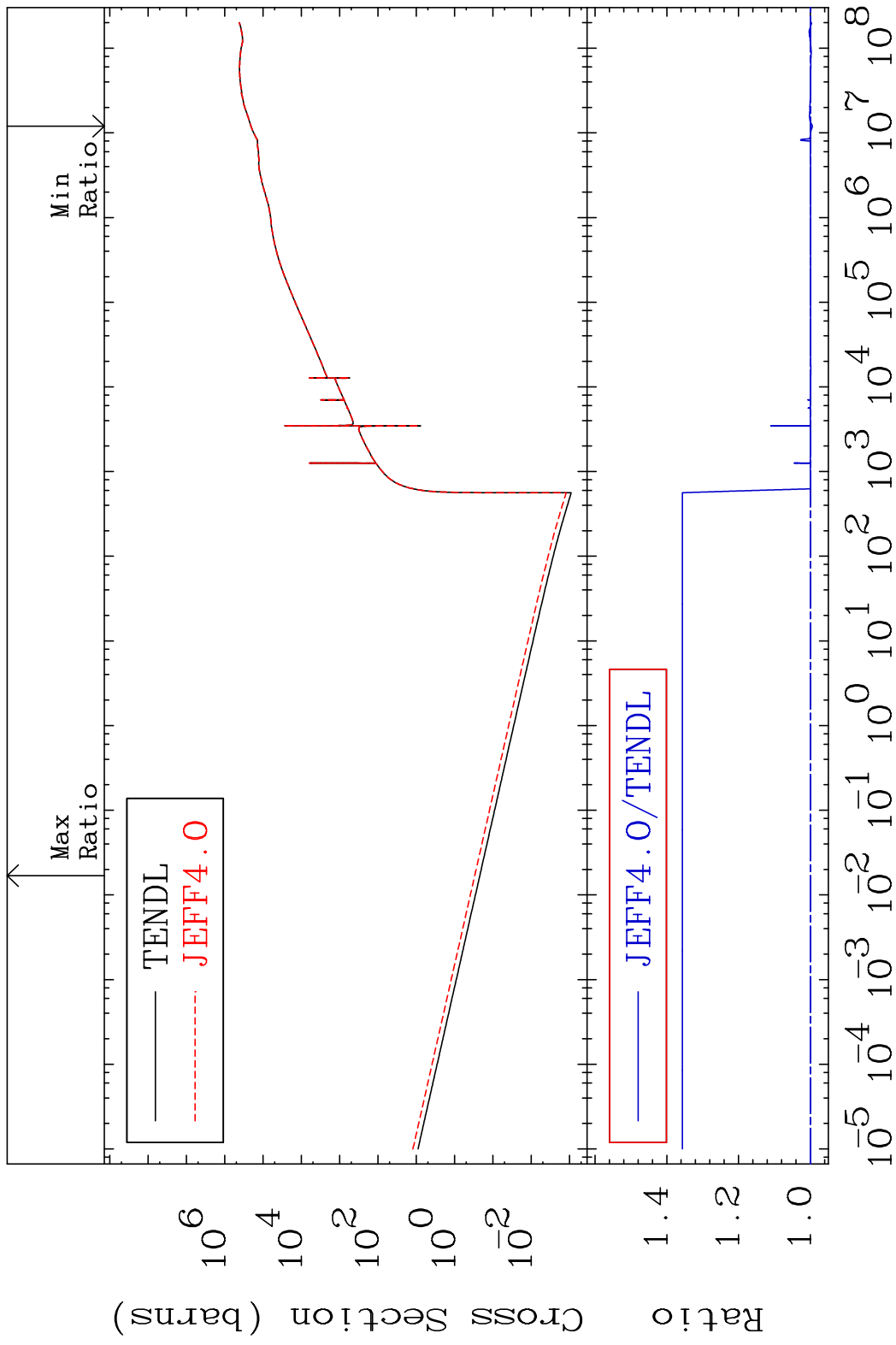


MAT 3843 Total kinematic kerma (high limit) 38-Sr-90  
Cross Section -2.292 To 26.48 %



70 Incident Energy (eV) 38-Sr-90

MAT 3843      Dpa total (eV-barns)      38-Sr-90  
 Cross Section      -0.594 To 35.66 %



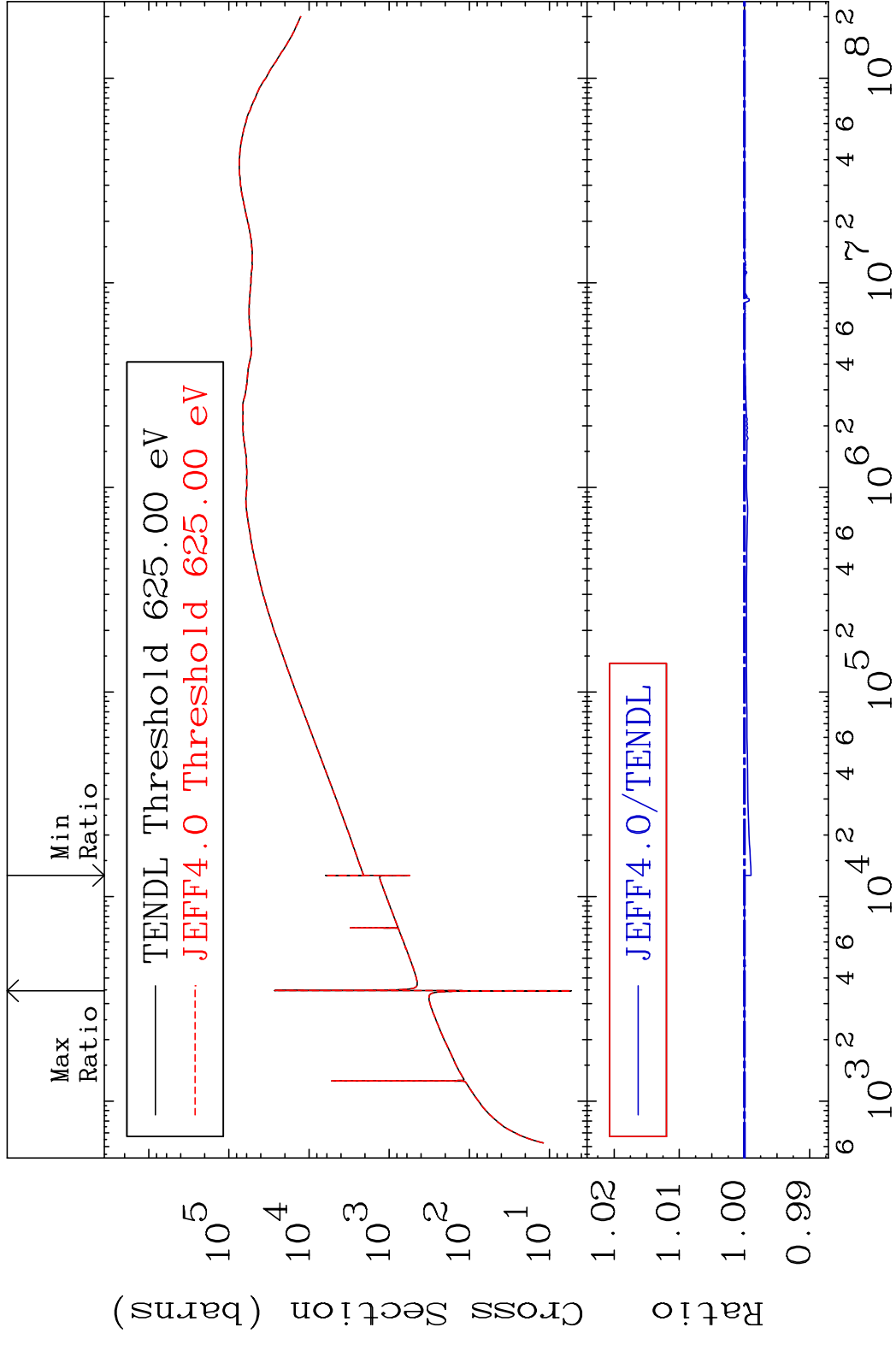
71      Incident Energy (eV)      38-Sr-90

MAT 3843

Dpa elastic (mt2)

38-Sr-90

Cross Section -0.103 To 0.009 %

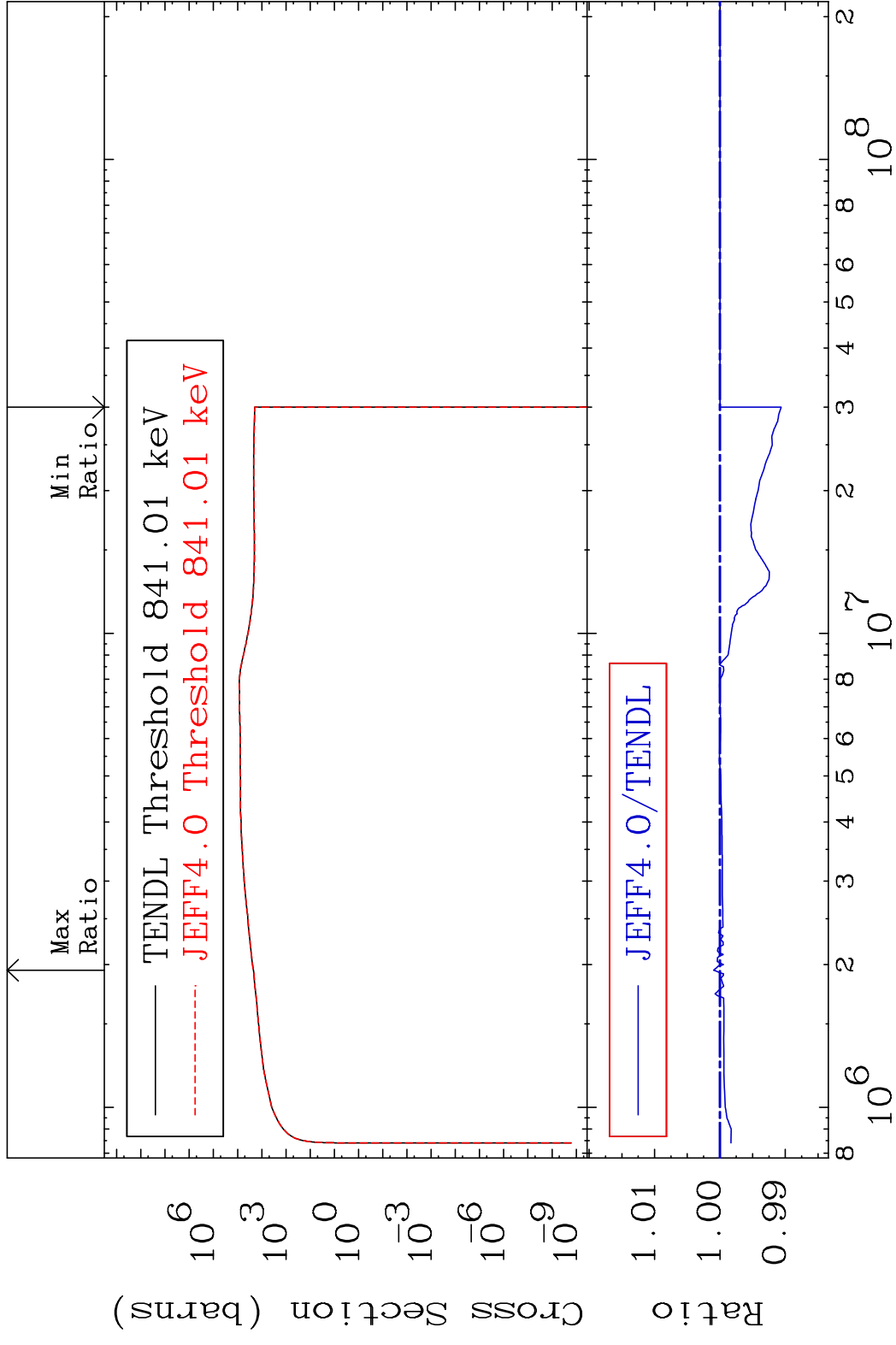


72

Incident Energy (eV)

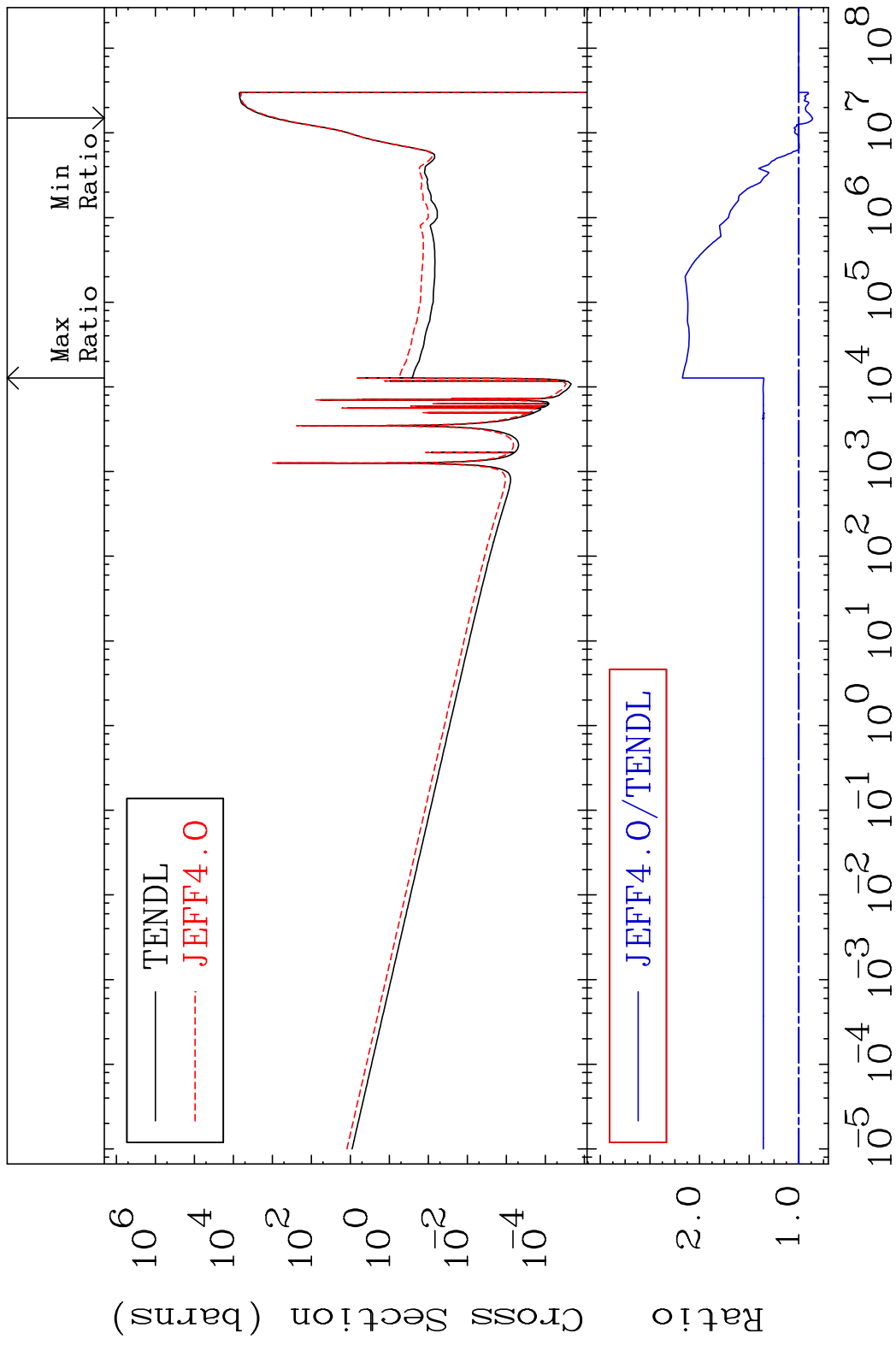
38-Sr-90

MAT 3843 Dpa inelastic (mt51-91) 38-Sr-90  
 Cross Section -0.938 To 0.095 %



73 Incident Energy (eV) 38-Sr-90

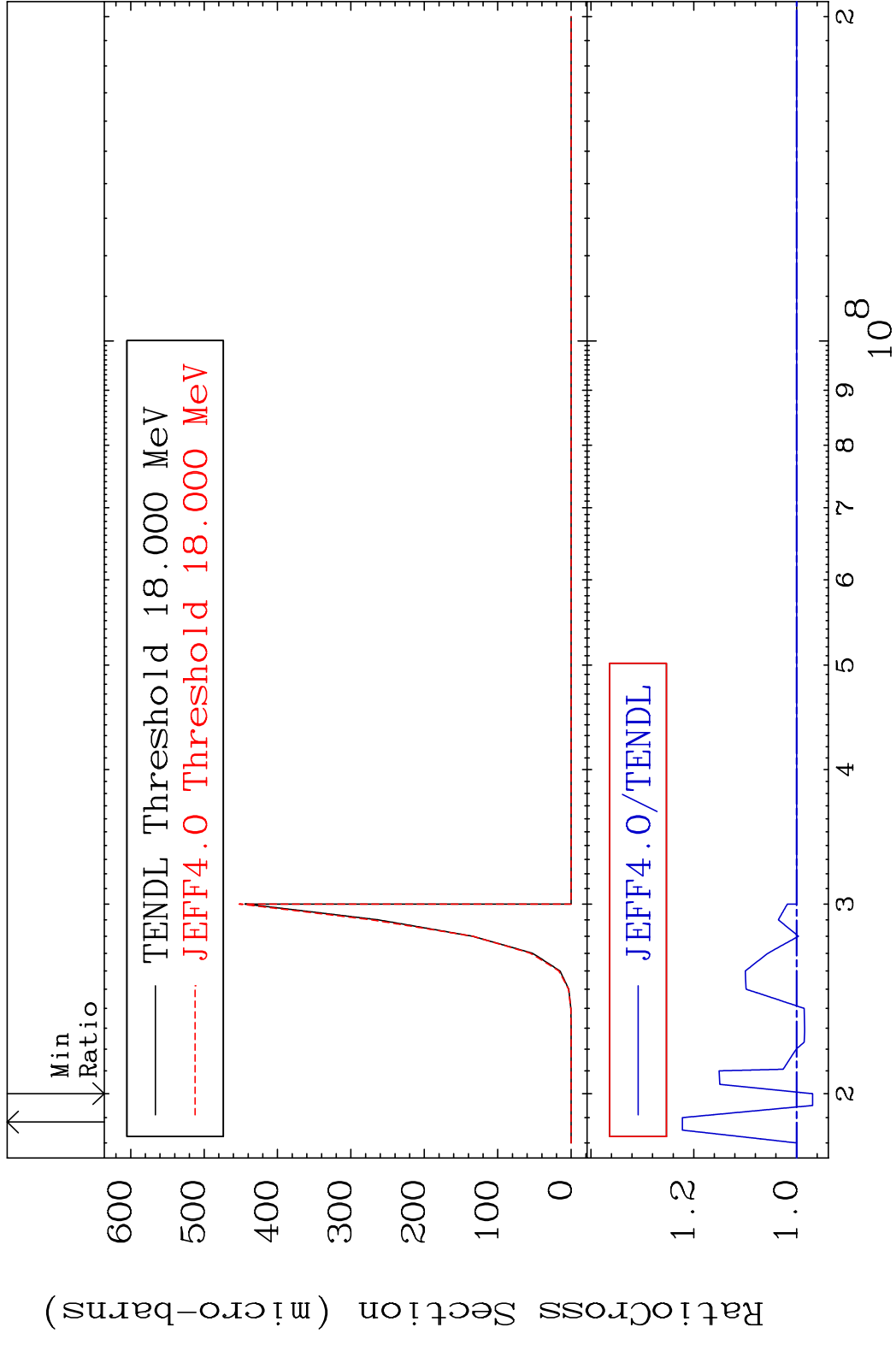
MAT 3843 Dpa disappearance (mt102 -120) 38-Sr-90  
 Cross Section -13.87 To 117.4 %



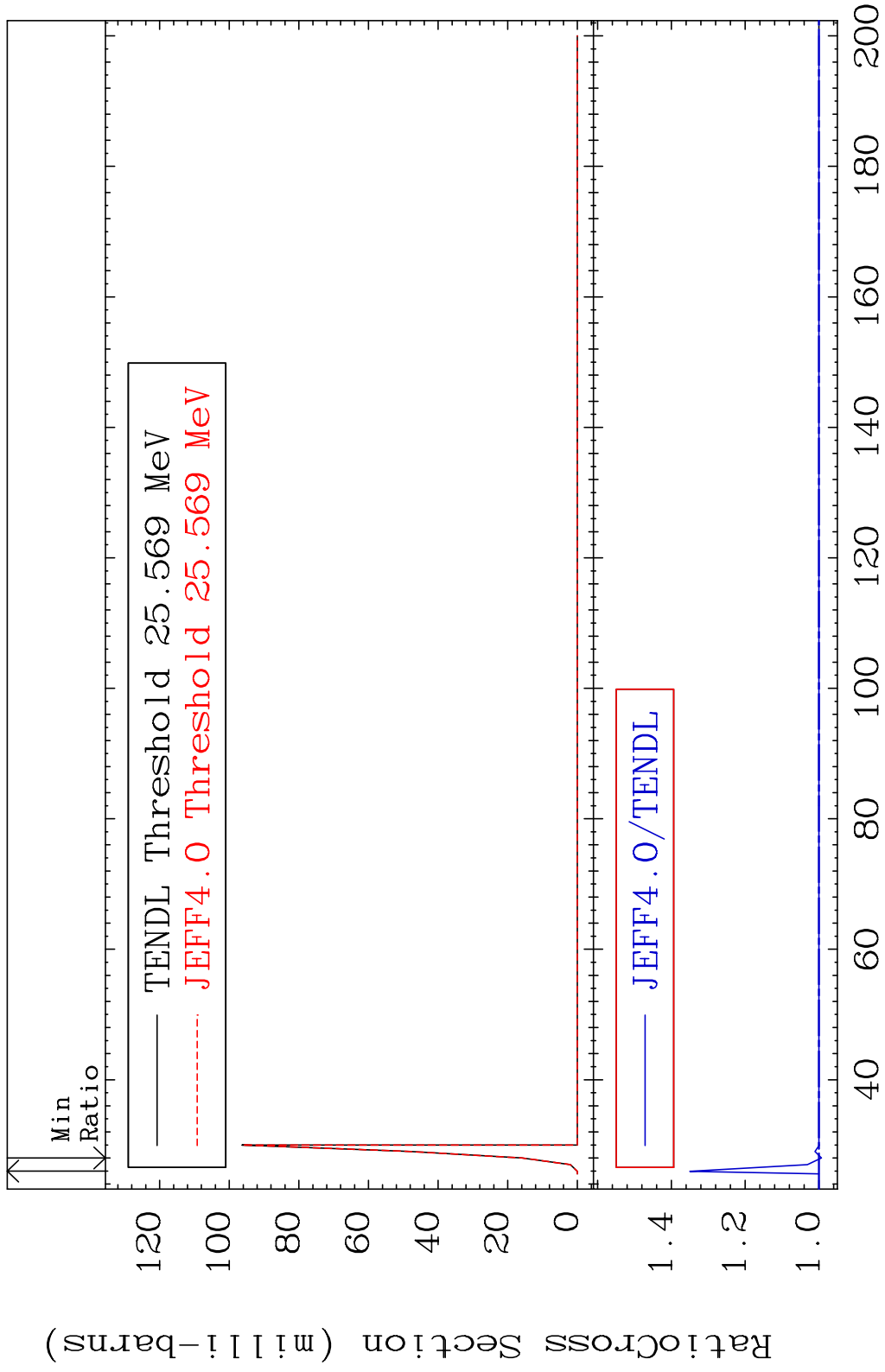
74 Incident Energy (eV) 38-Sr-90



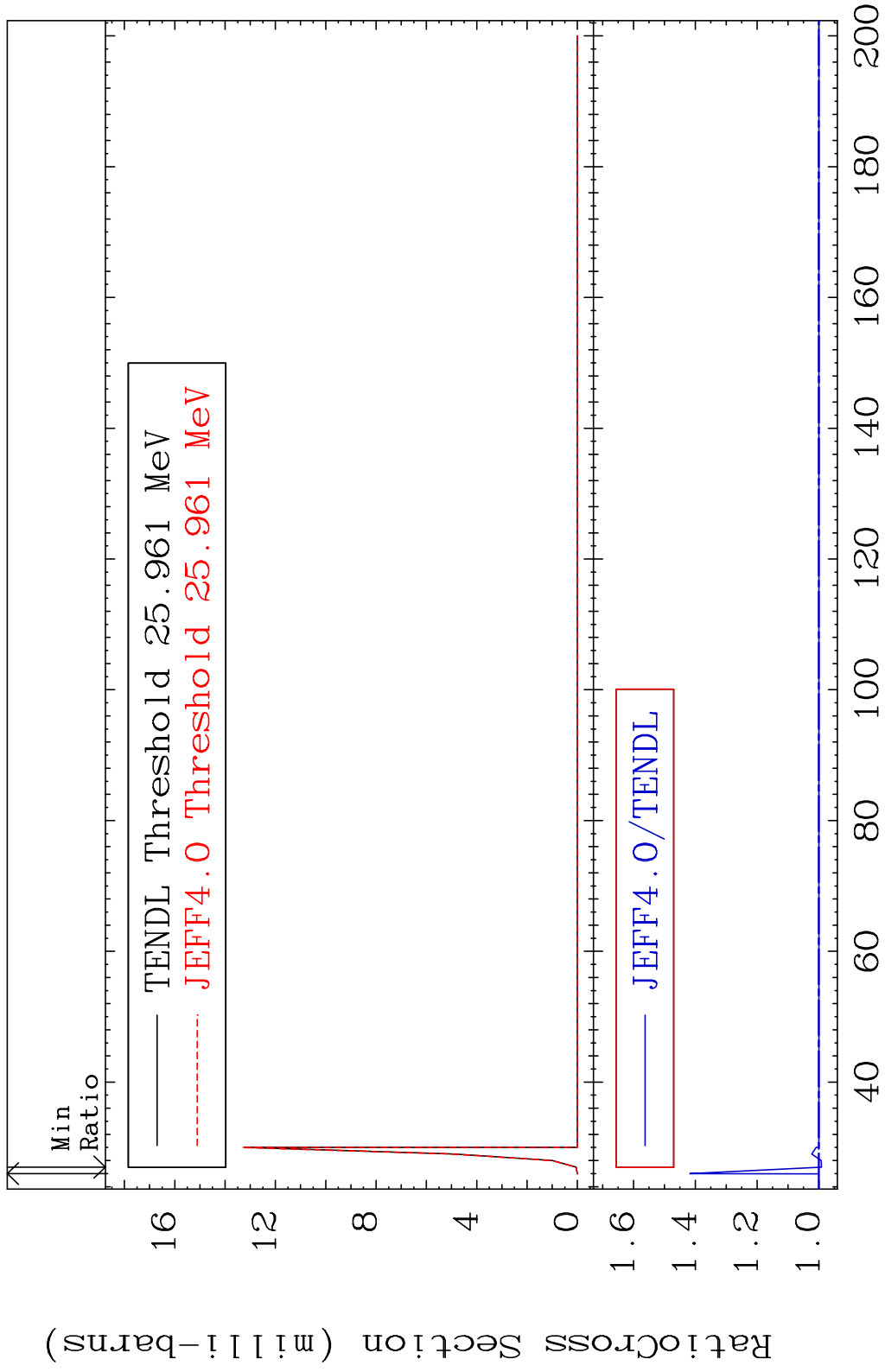
MAT 3843 (n,2n)  $\alpha$ :36-Kr-85m1 38-Sr-90  
 Radionuclide Production Cross Section 22.22 %



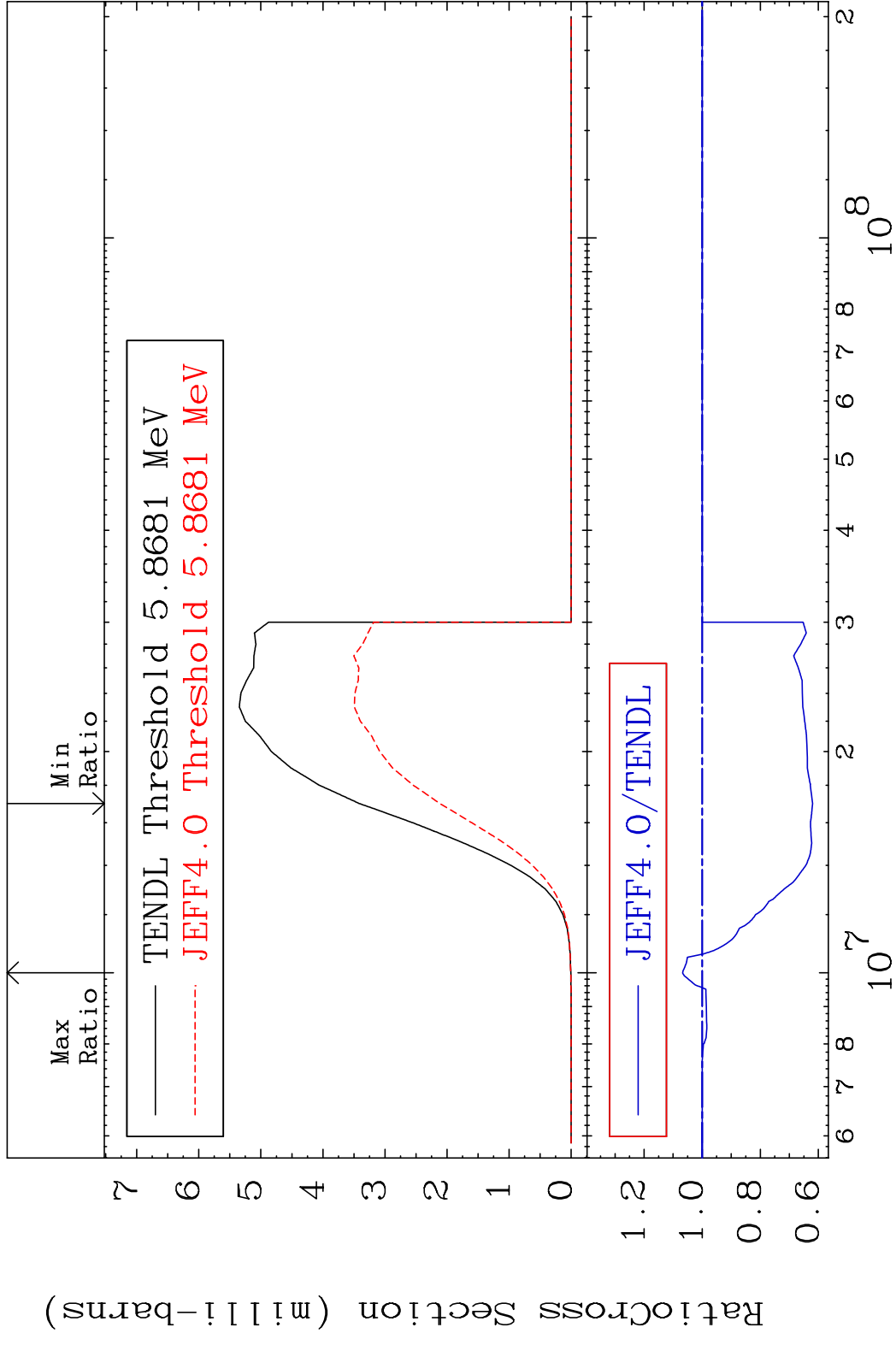
MAT 3843 (n,4n):38-Sr-87g 38-Sr-90  
 Radionuclide Production Cross-Section to 35.02 %



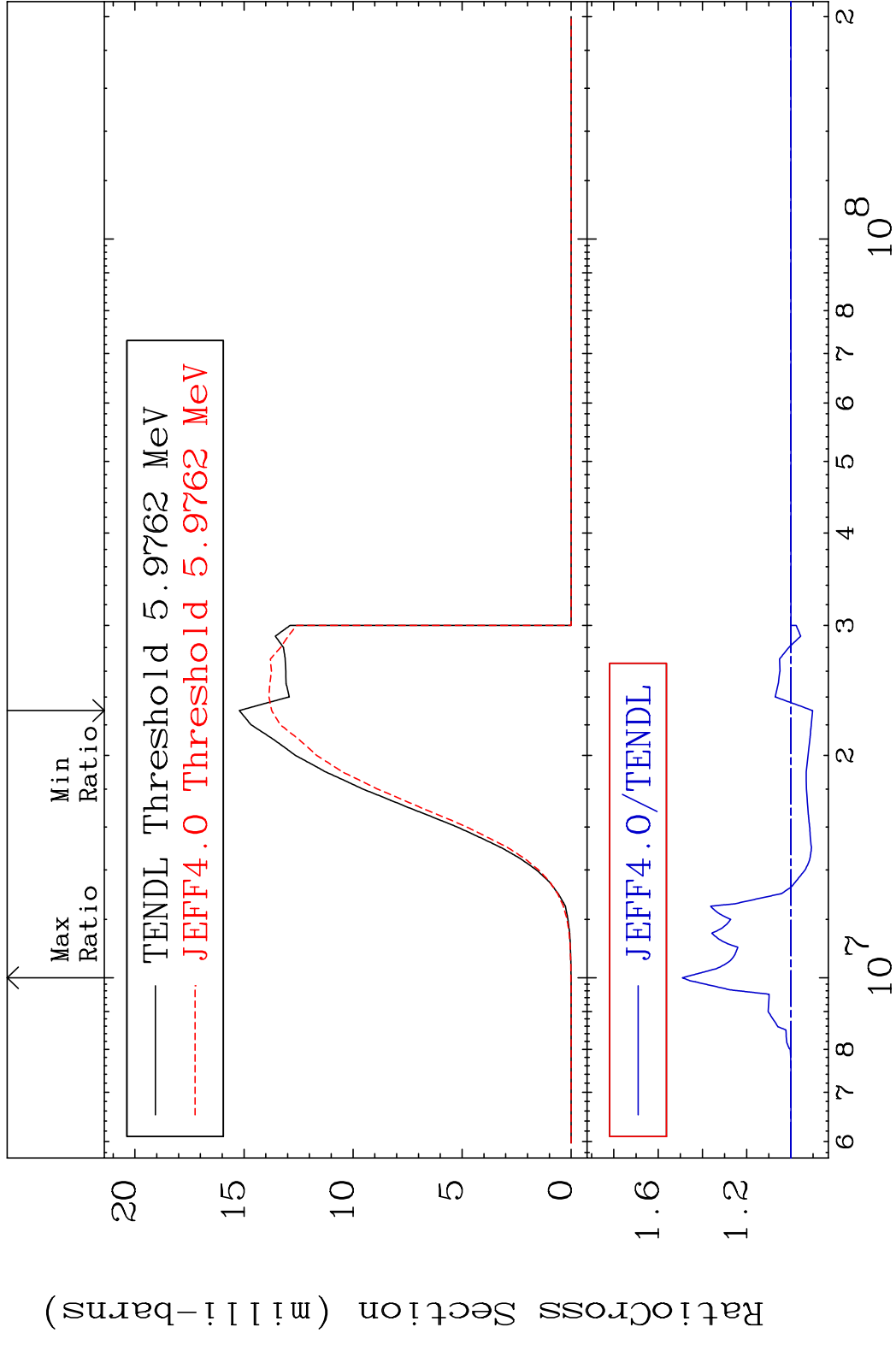
MAT 3843 (n,4n):38-Sr-87m1 38-Sr-90  
 Radionuclide Production Cross-Section to 41.79 %



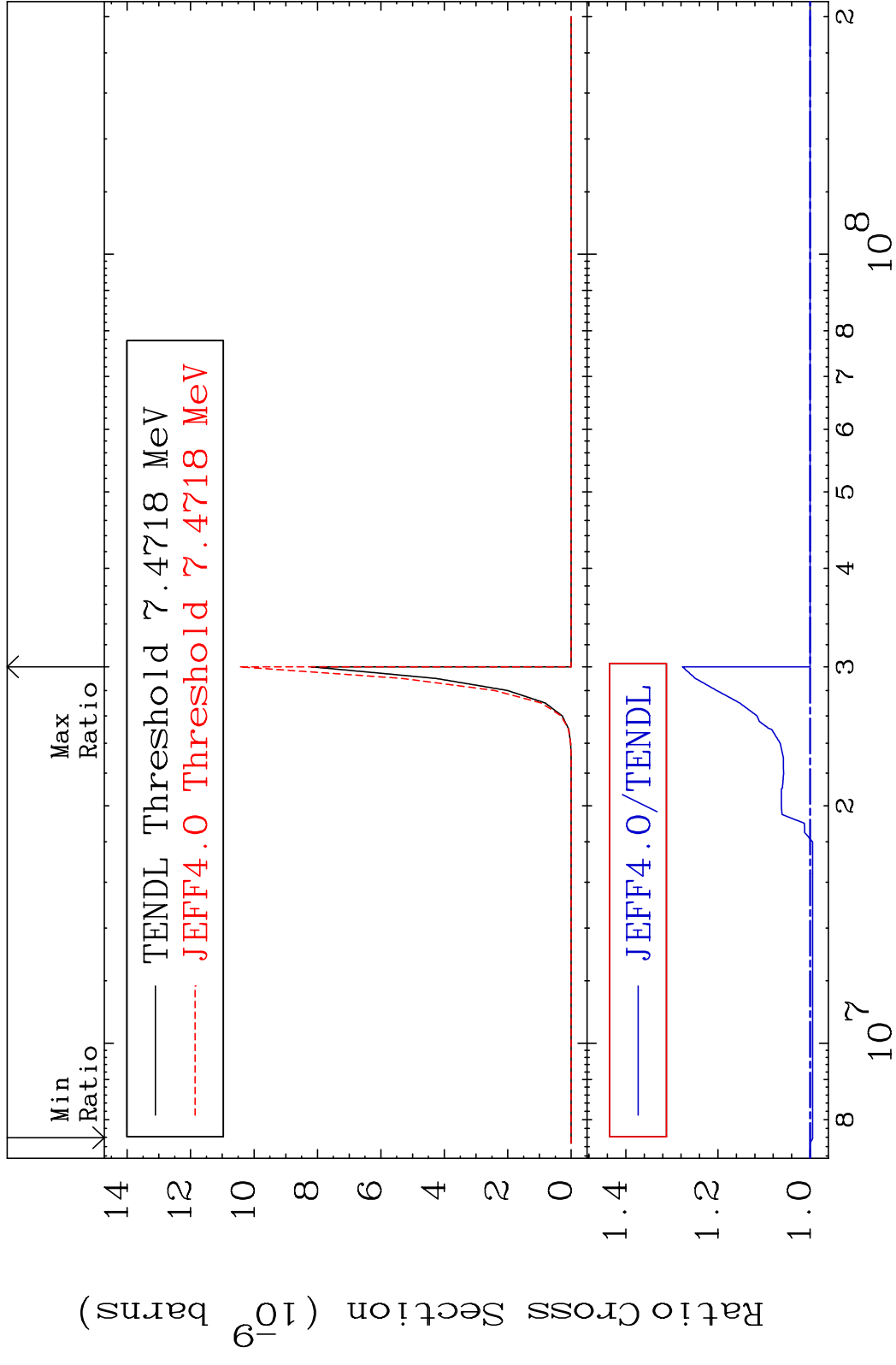
MAT 3843 (n,p):37-Rb-90g 38-Sr-90  
 Radionuclide Production Cross Section 38e00idto 6.829 %



MAT 3843 (n,p):37-Rb-90m1 38-Sr-90  
 Radionuclide Production Cross Section 49.06 %



MAT 3843 (n,2α):34-Se-83g 38-Sr-90  
 Radionuclide Production Cross Section 27.73 %



MAT 3843 (n,2α):34-Se-83m1 38-Sr-90  
 Radionuclide Production Cross Section 11.02 %

