

Program Complot  
(Version 2021-1)

by

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(Present Contact Information)

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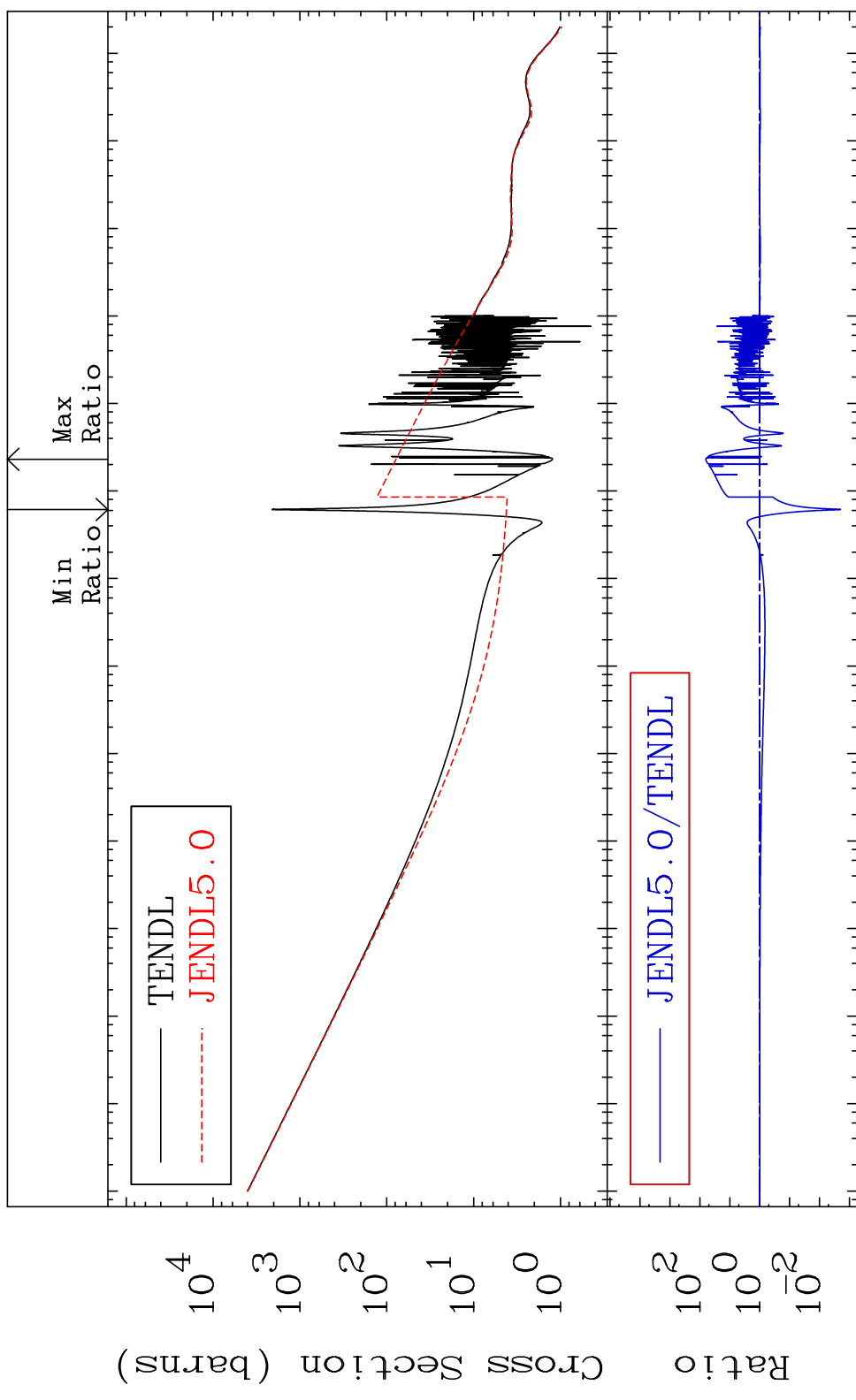
Press Mouse Button to Start

MAT 2519

25-Mn-53

Total

Cross Section -99.80 To 6232. %



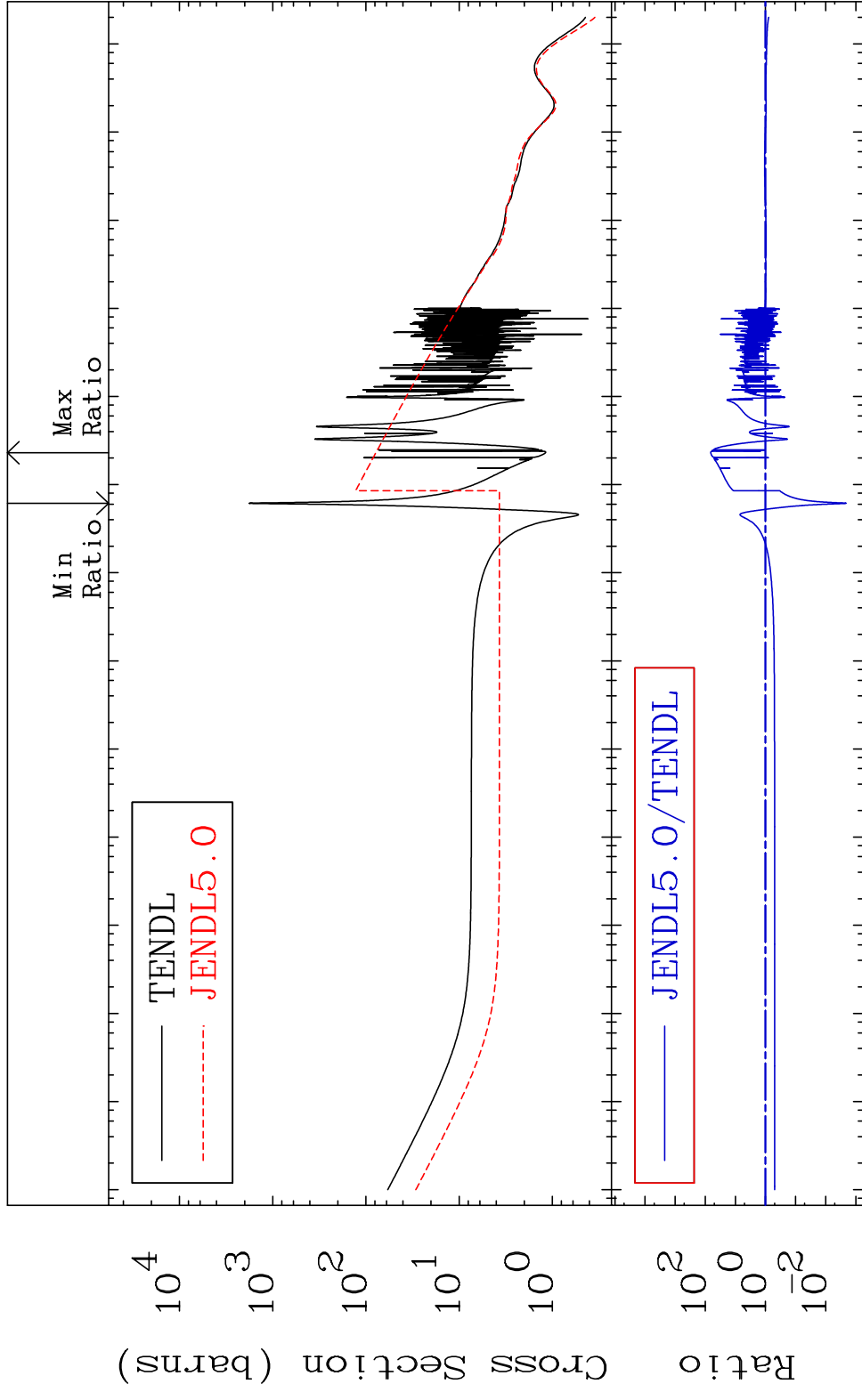
1

Incident Energy (eV)

25-Mn-53

MAT 2519

Elastic Cross Section -99.79 To 6498. %  
25-Mn-53

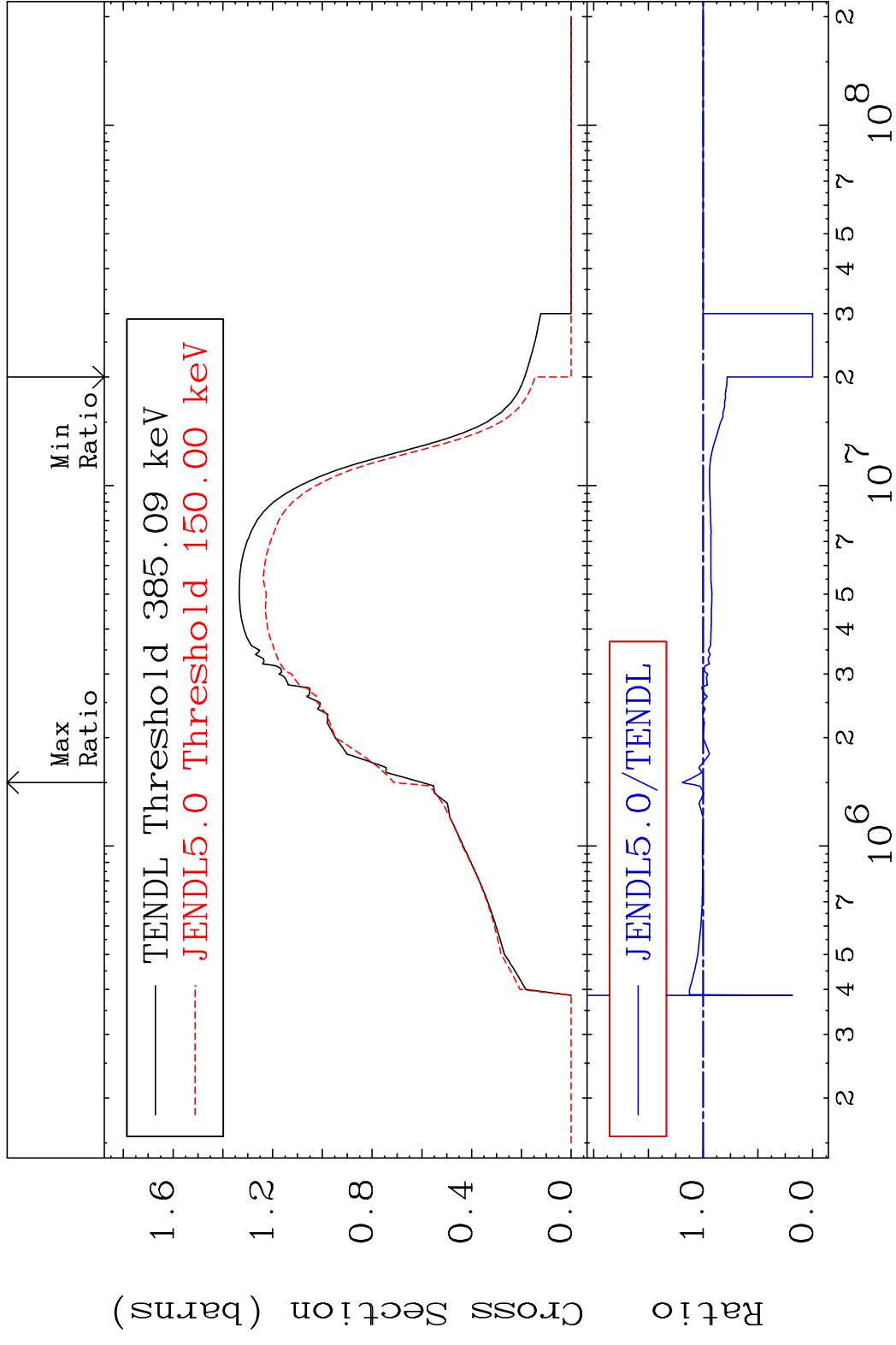


Ratio  
10<sup>2</sup>  
10<sup>0</sup>  
10<sup>-2</sup>

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>

2 Incident Energy (eV) 25-Mn-53

MAT 2519 Inelastic Cross Section -100.0 To 18.95 % 25-Mn-53

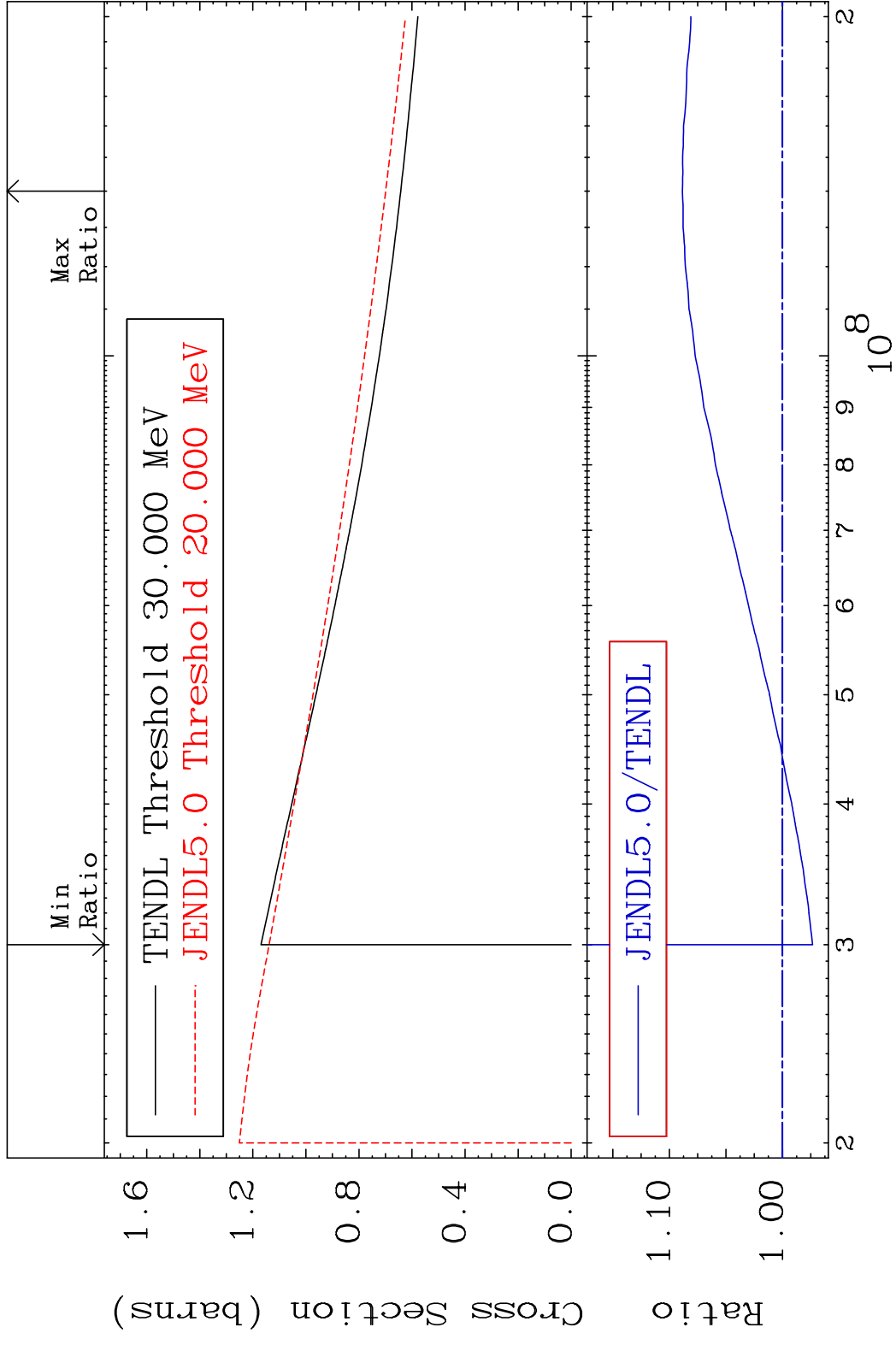


MAT 2519

(n, remainder)

25-Mn-53

Cross Section -2.659 To 8.858 %

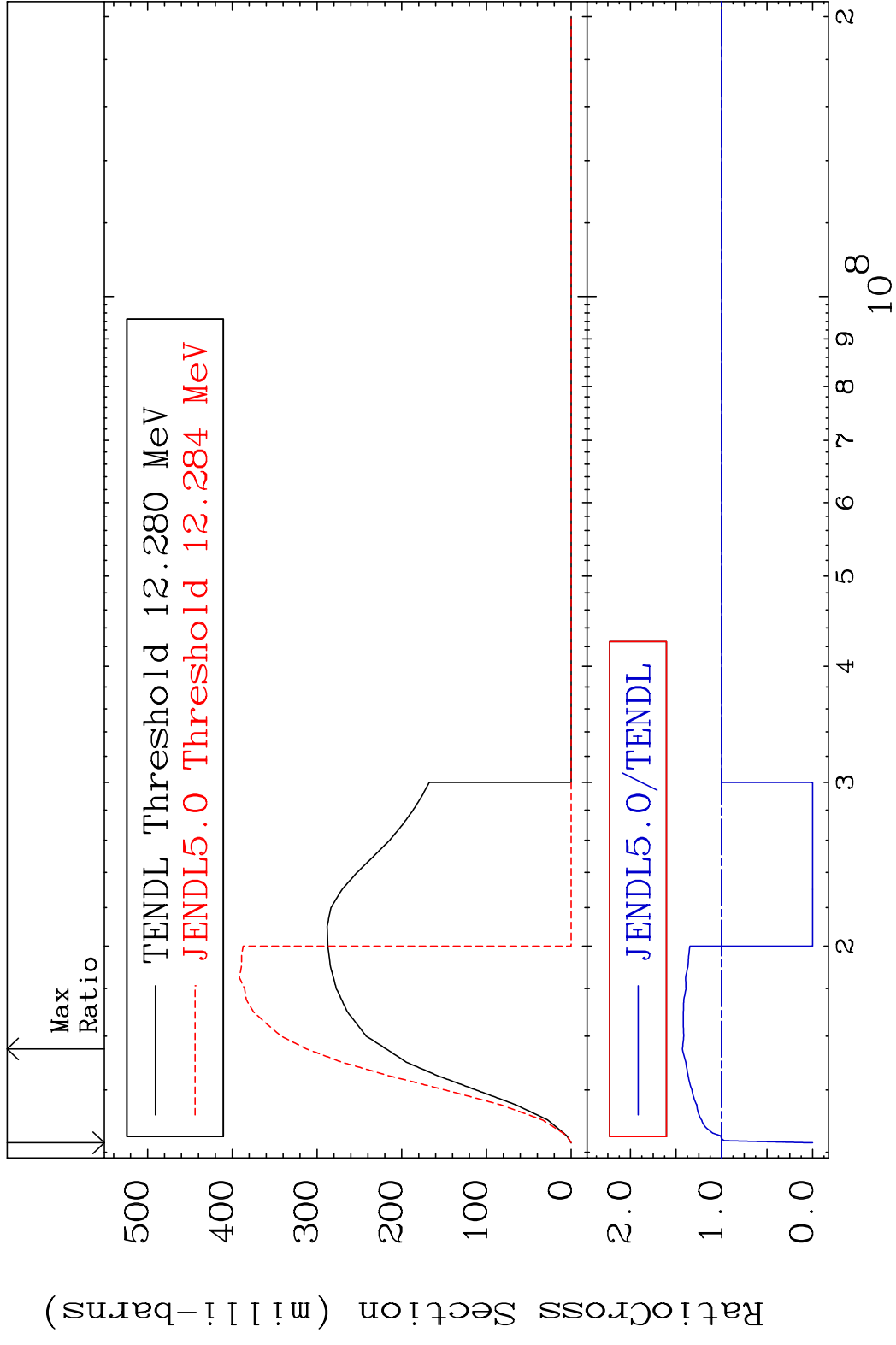


4

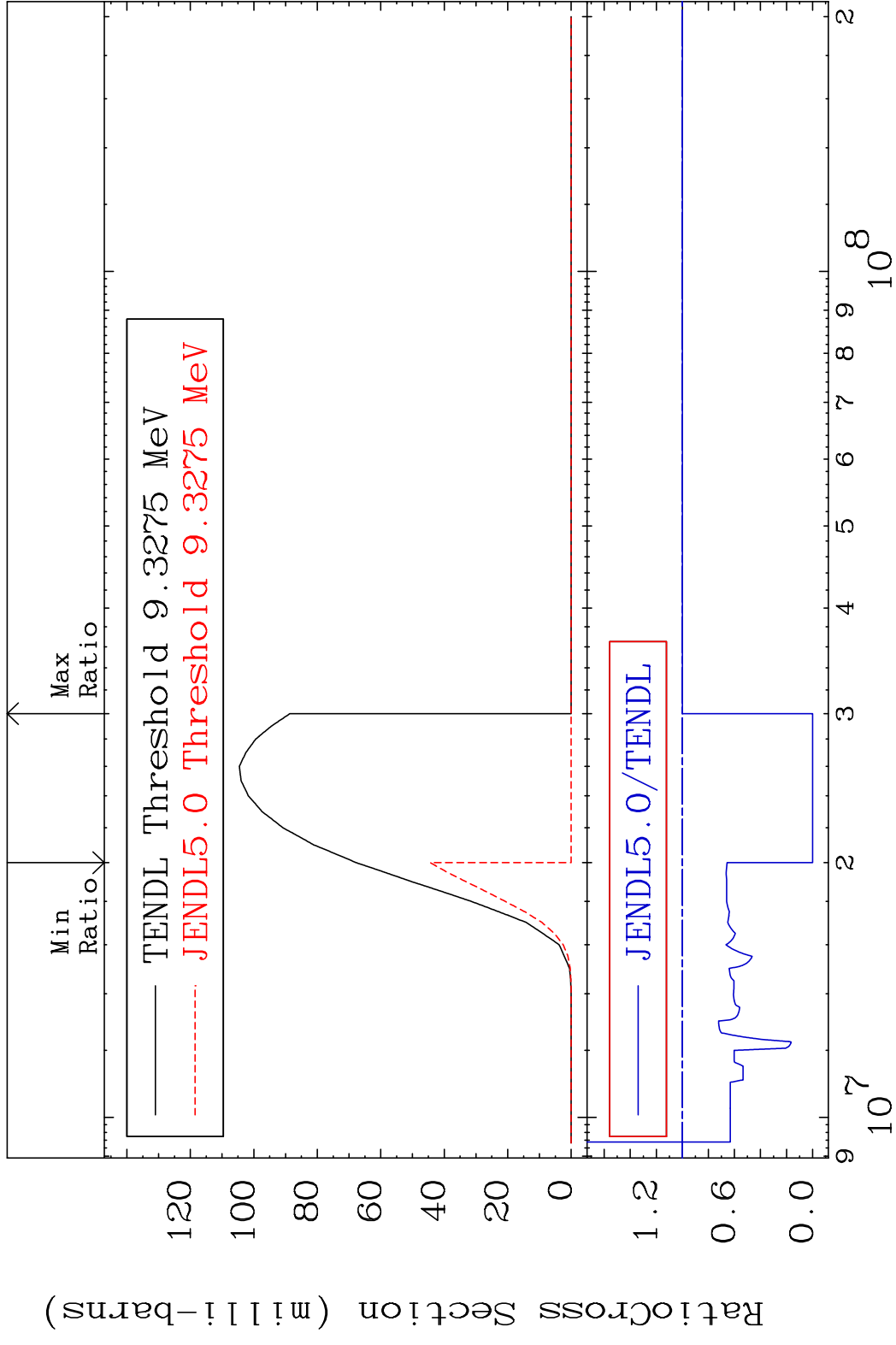
Incident Energy (eV)

25-Mn-53

MAT 2519 (n,2n) 25-Mn-53  
 Cross Section -100.0 To 43.03 %

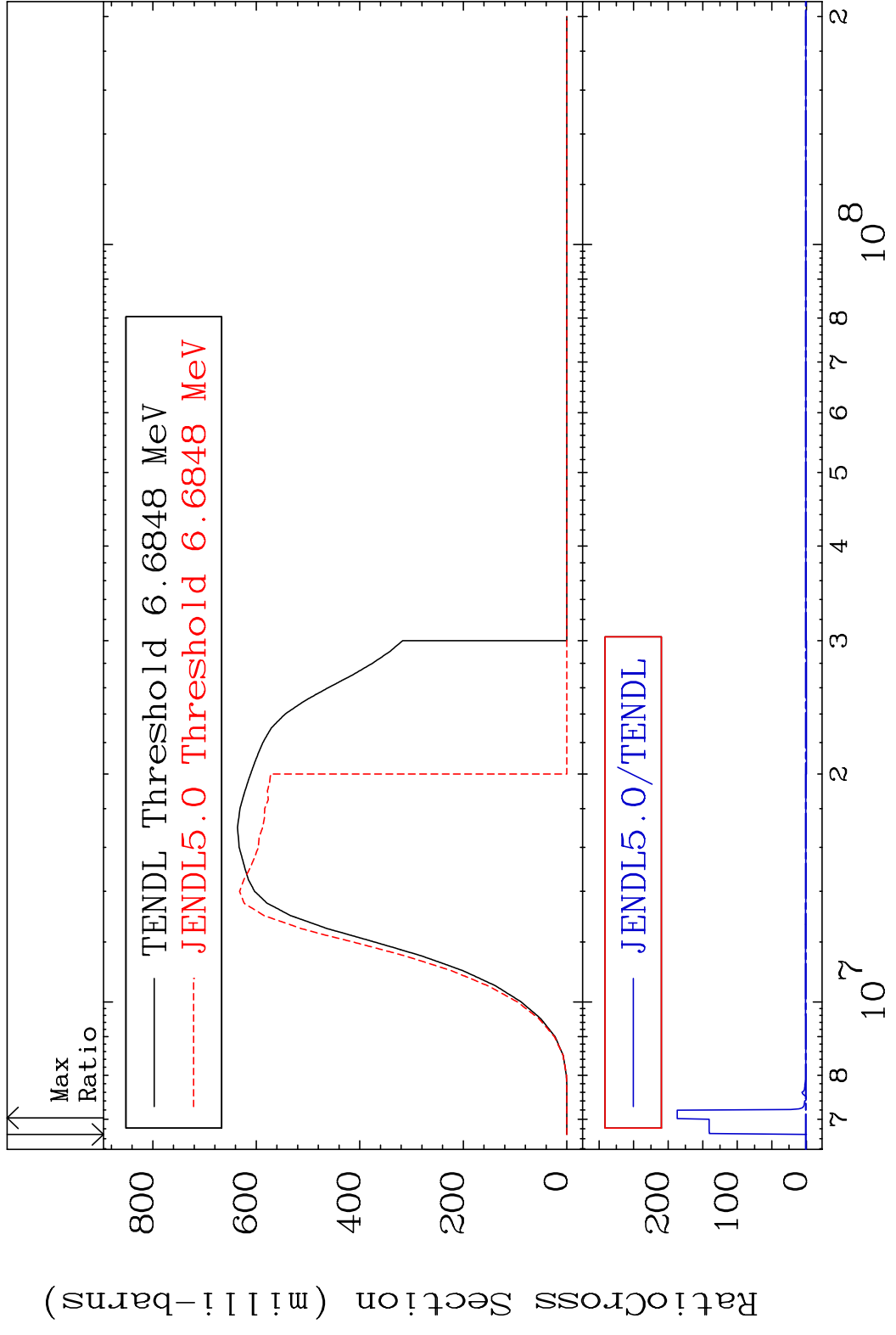


MAT 2519 (n, n')  $\alpha$  25-Mn-53  
 Cross Section -100.0 To 0.000 %



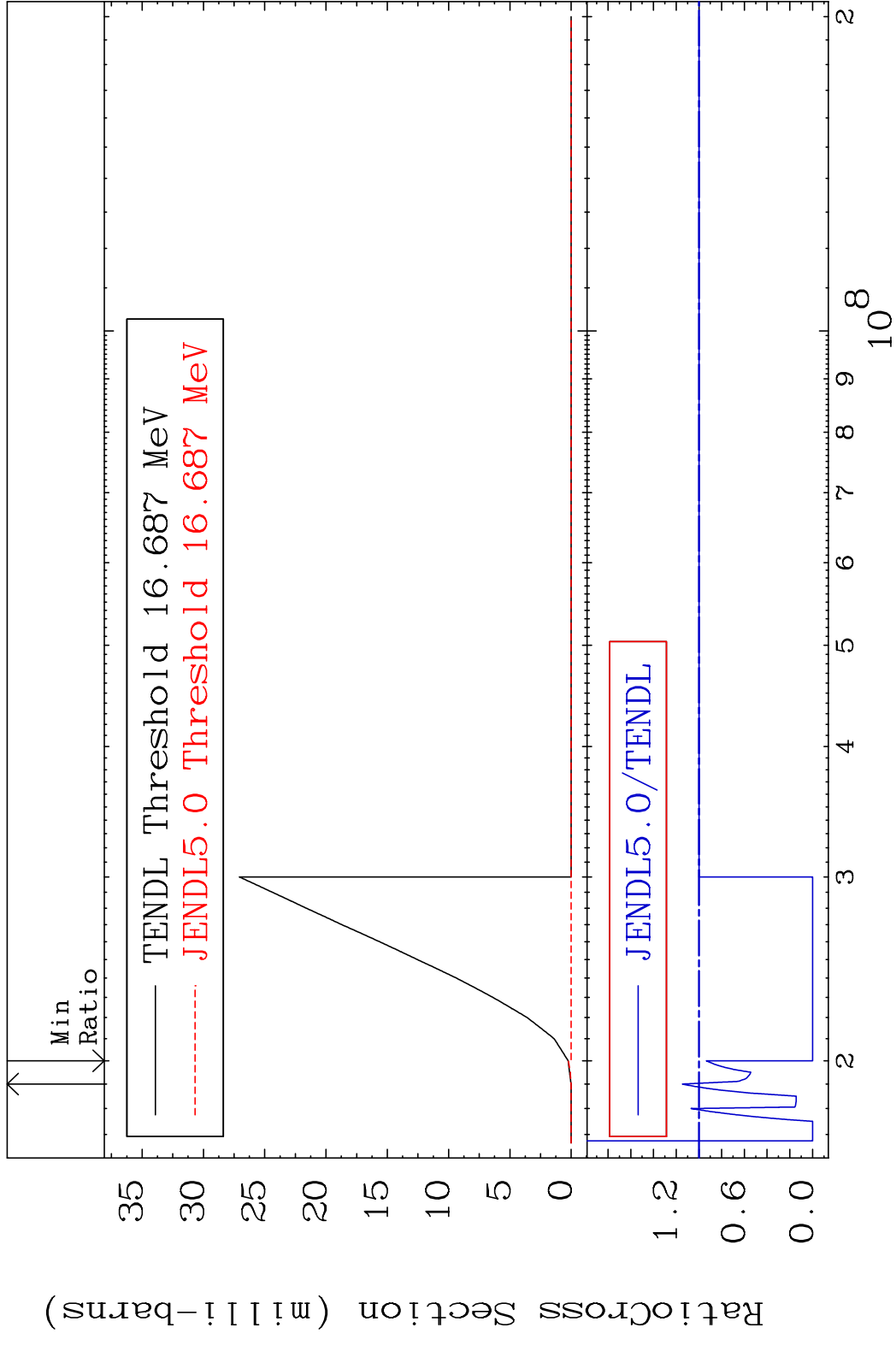
6 Incident Energy (eV) 25-Mn-53

MAT 2519 (n, n') p 25-Mn-53  
 Cross Section -100.0 To 9999. %

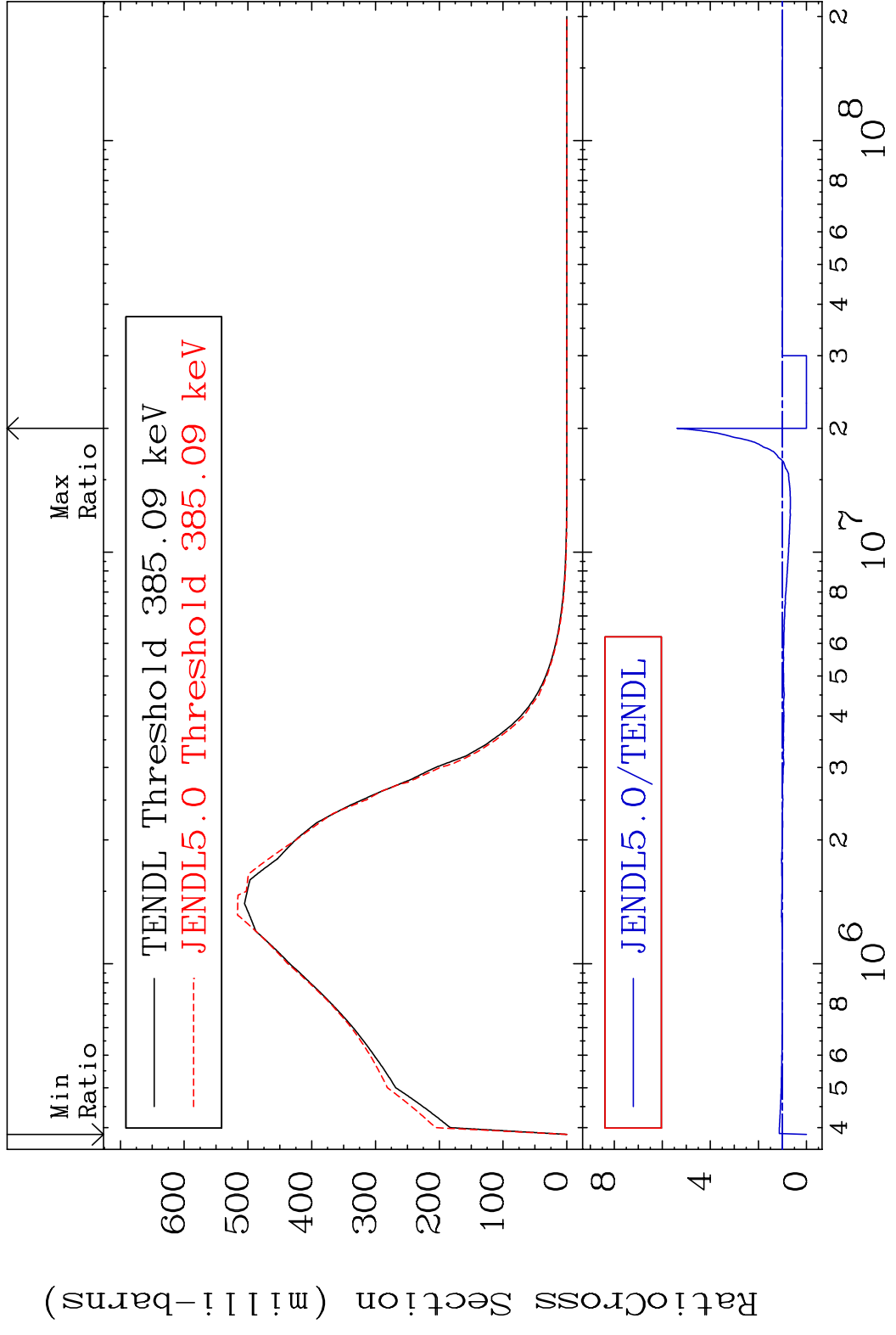


7 25-Mn-53

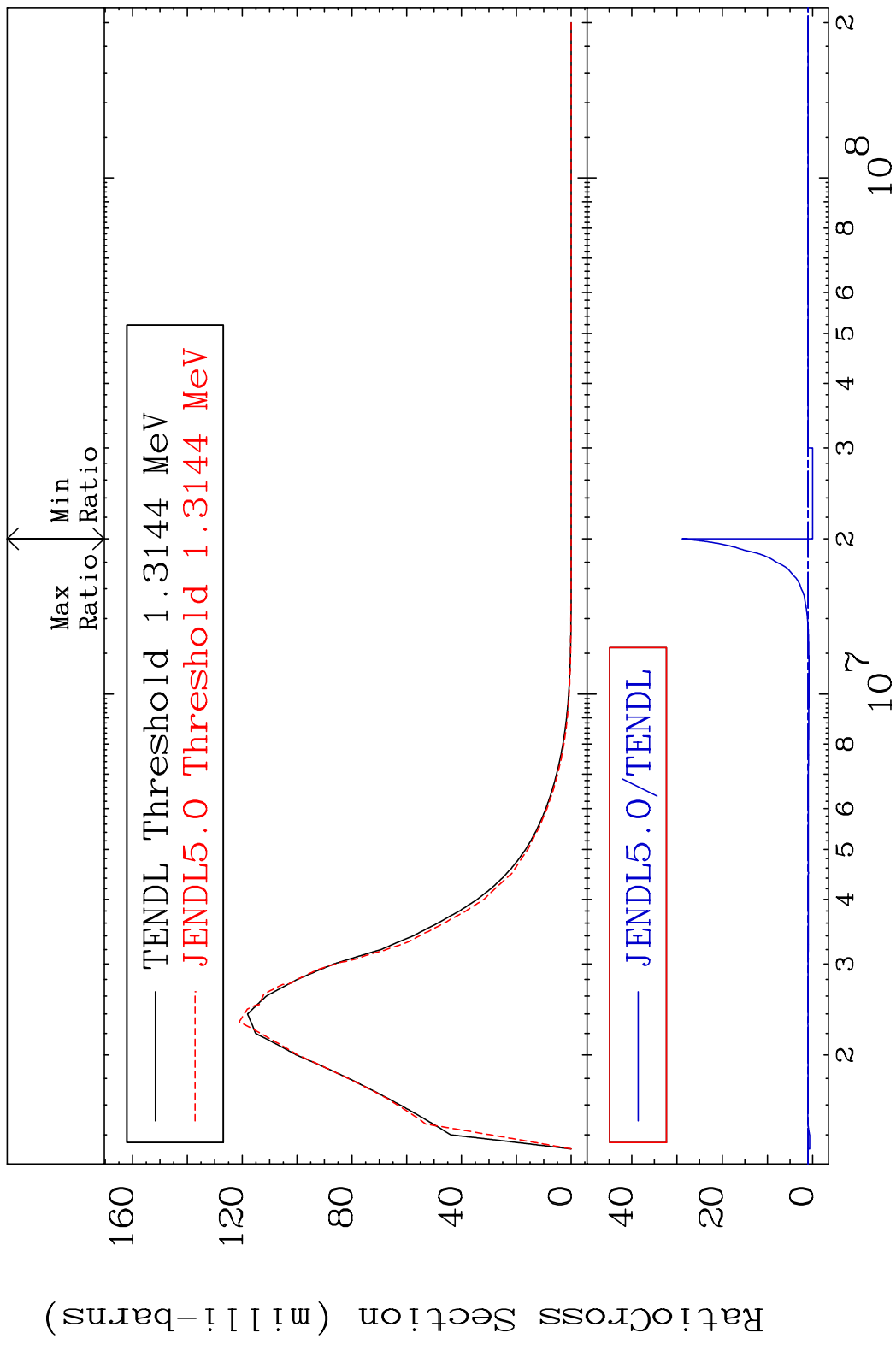
MAT 2519 (n, n') d 25-Mn-53  
 Cross Section -100.0 To 14.59 %



MAT 2519 MT= 51 (n, n') Level 25-Mn-53  
 Cross Section -100.0 To 437.9 %

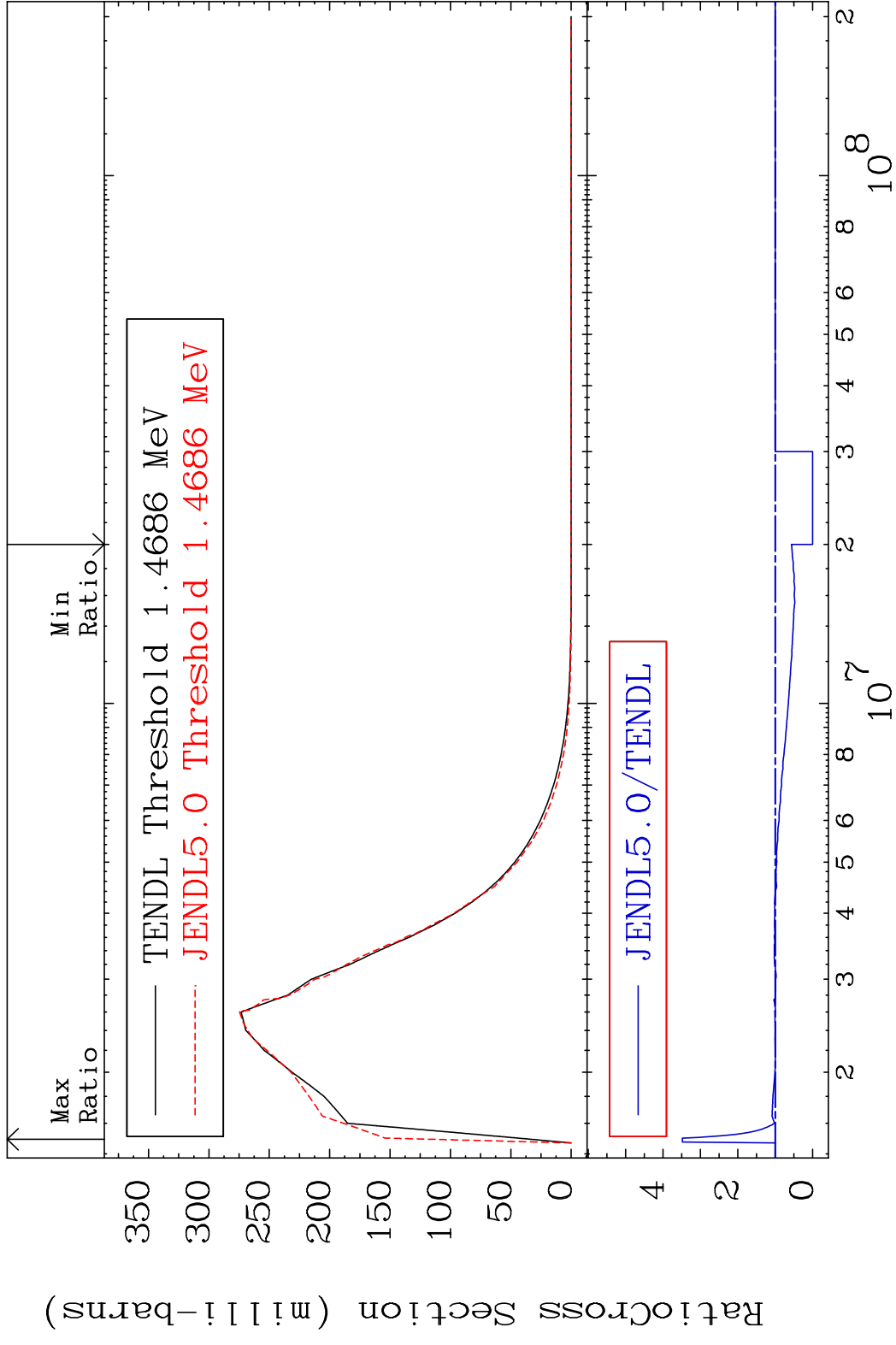


MAT 2519 MT= 52 (n, n') Level 25-Mn-53  
Cross Section -100.0 To 2781. %

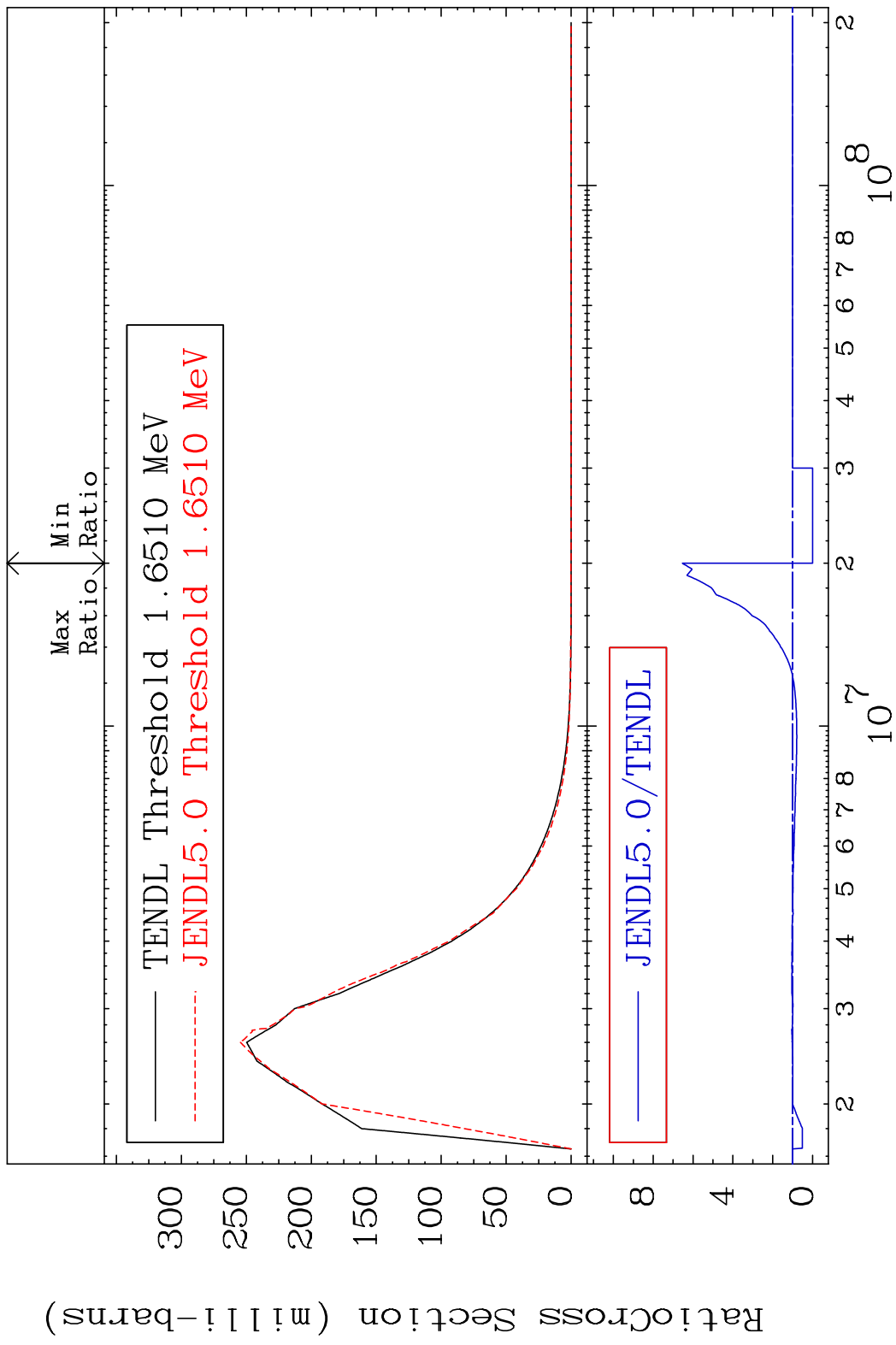


10 Incident Energy (eV) 25-Mn-53

MAT 2519 MT= 53 (n, n') Level 25-Mn-53  
 Cross Section -100.0 To 248.2 %

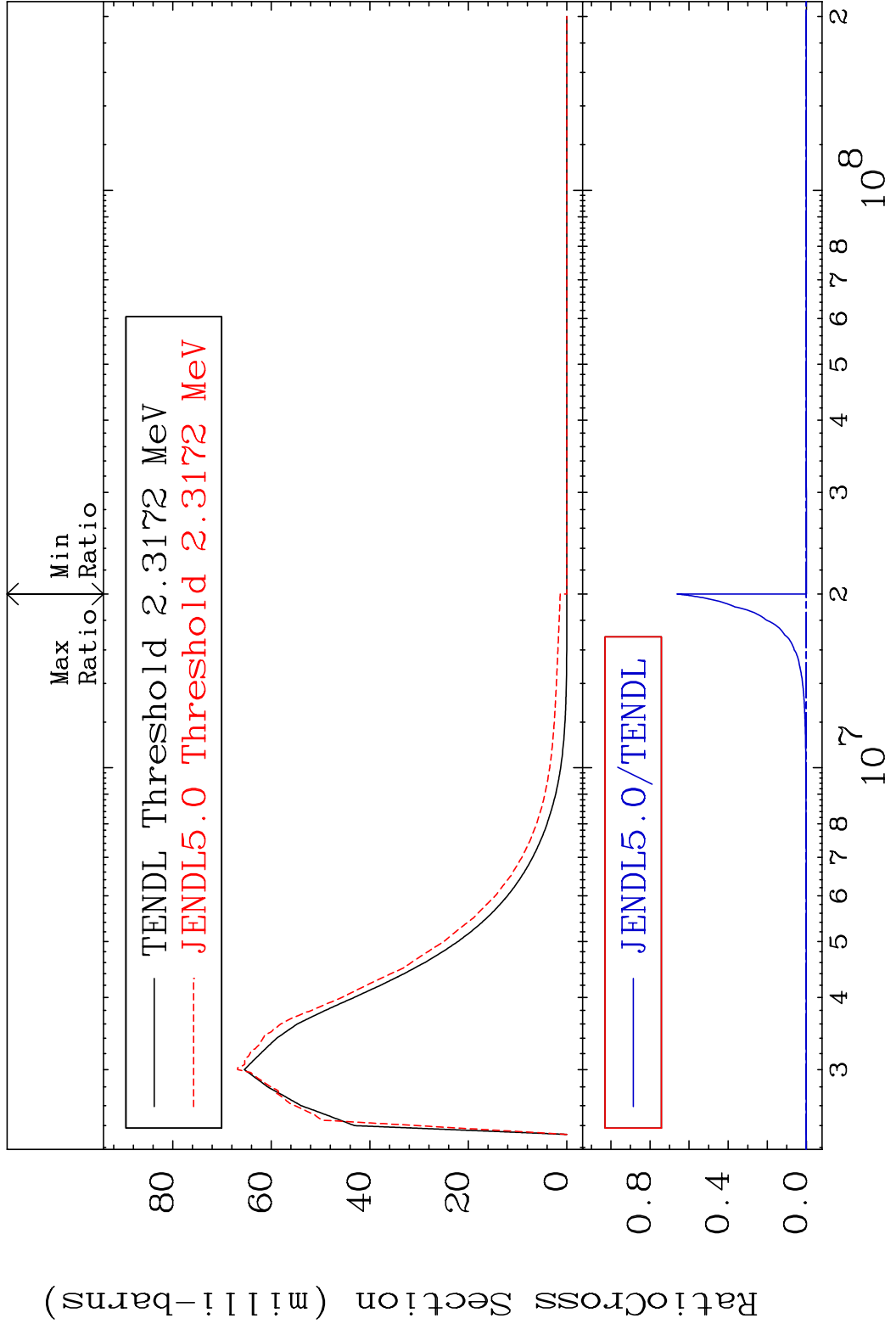


MAT 2519 MT= 54 (n, n') Level 25-Mn-53  
 Cross Section -100.0 To 553.8 %

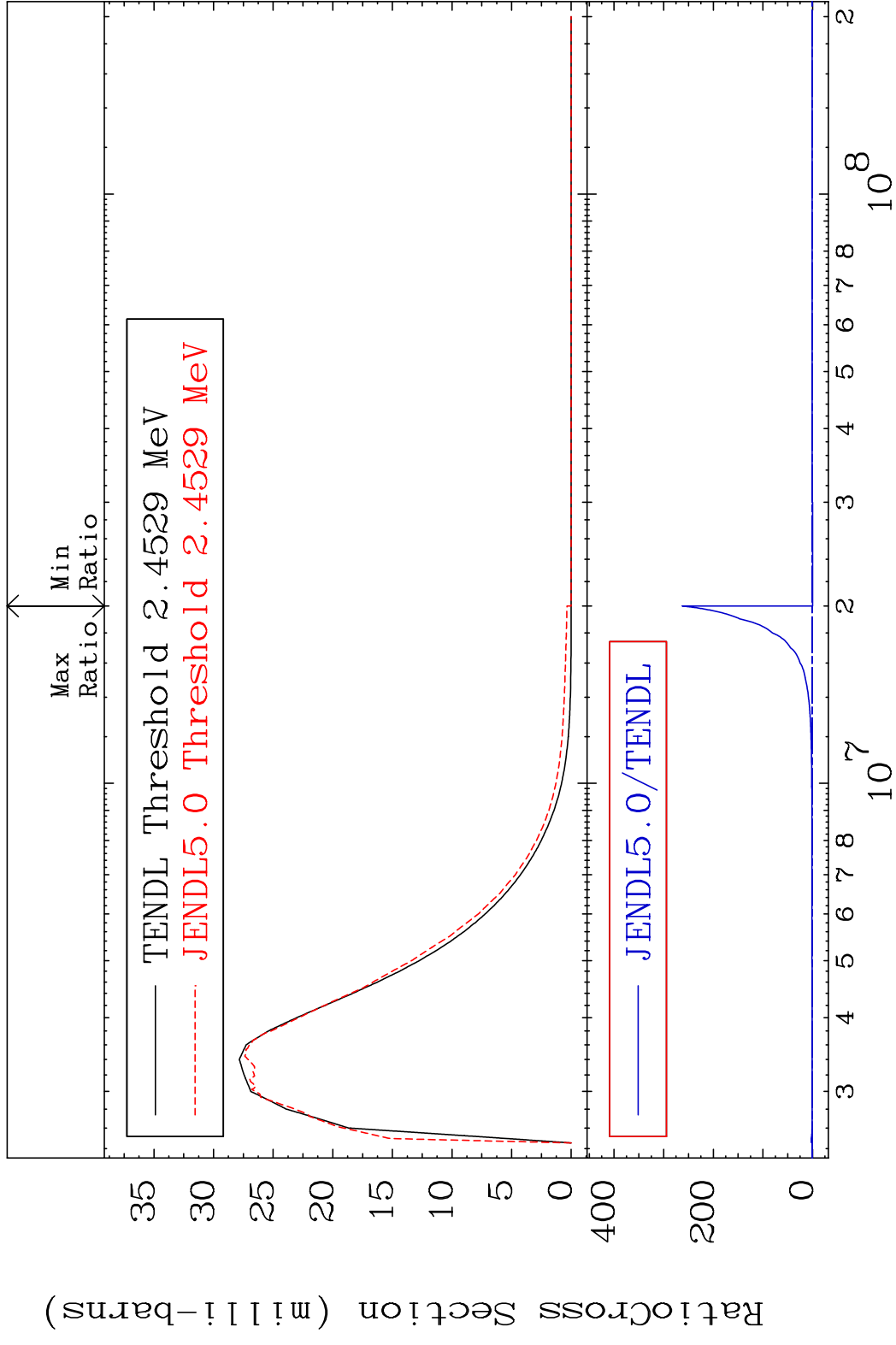


12 25-Mn-53

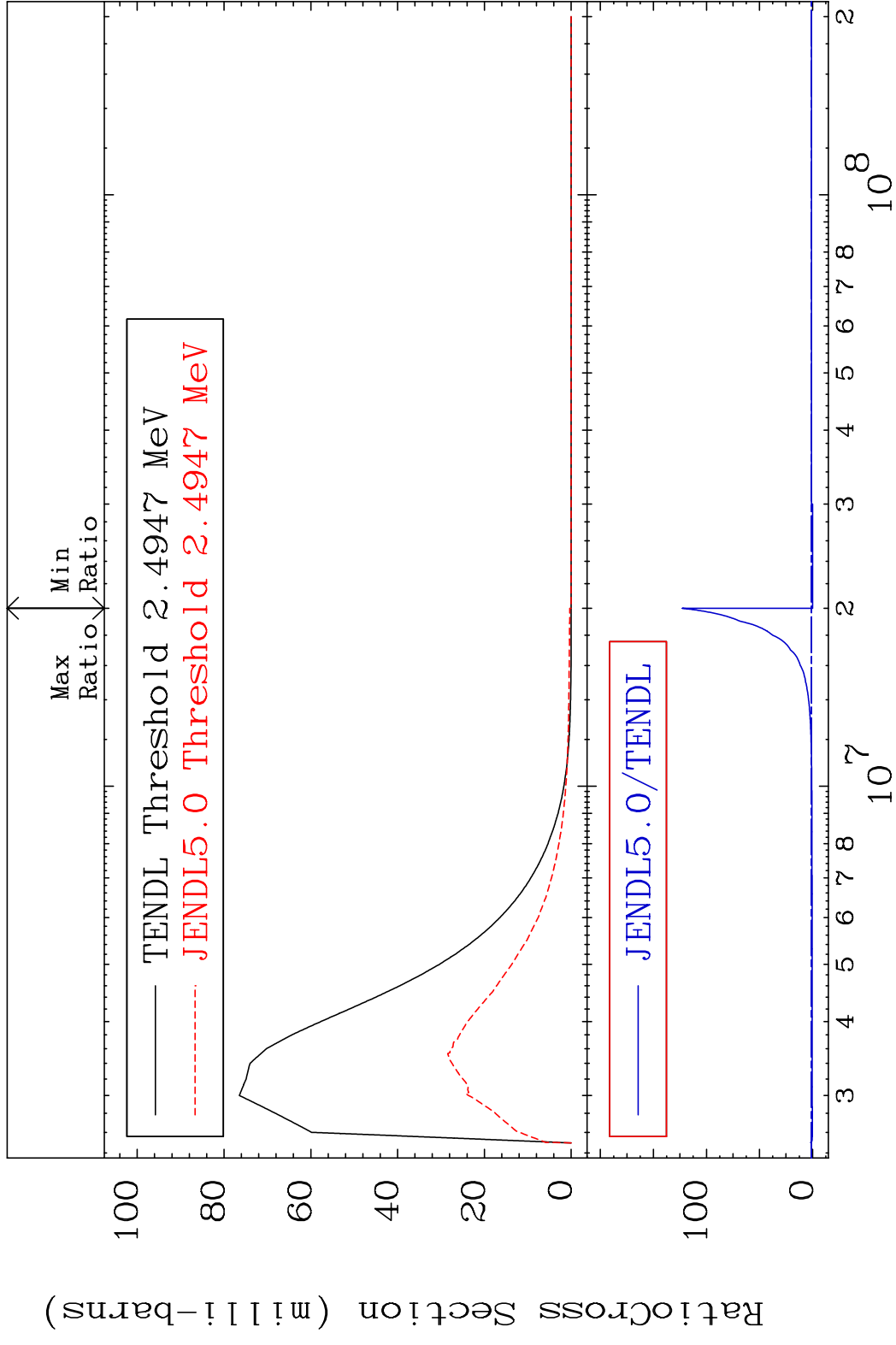
MAT 2519 MT= 55 (n, n') Level 25-Mn-53  
 Cross Section -100.0 To 9999. %



MAT 2519 MT= 56 (n, n') Level 25-Mn-53  
 Cross Section -100.0 To 9999. %

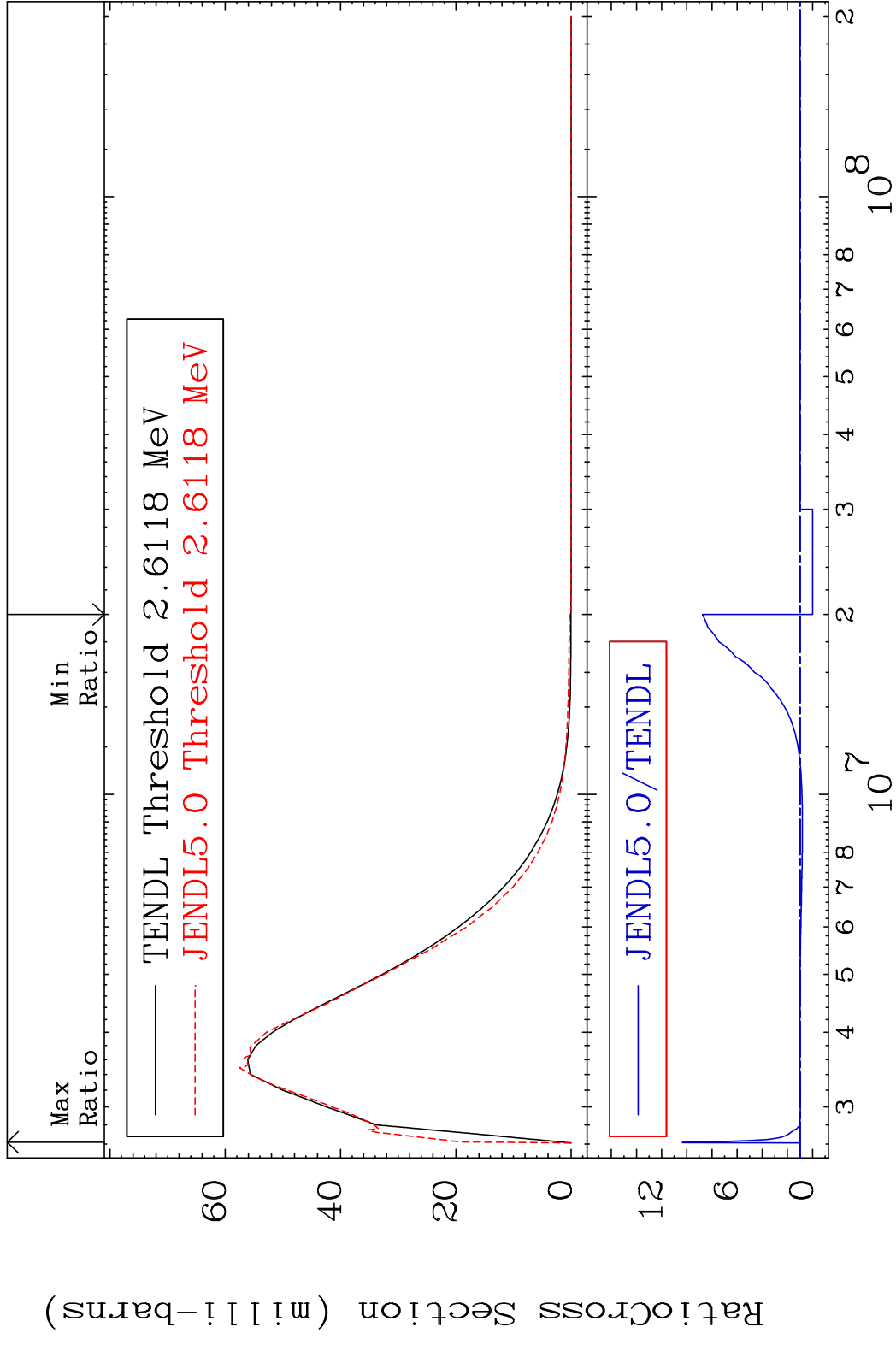


MAT 2519 MT= 57 (n, n') Level 25-Mn-53  
 Cross Section -100.0 To 9999. %



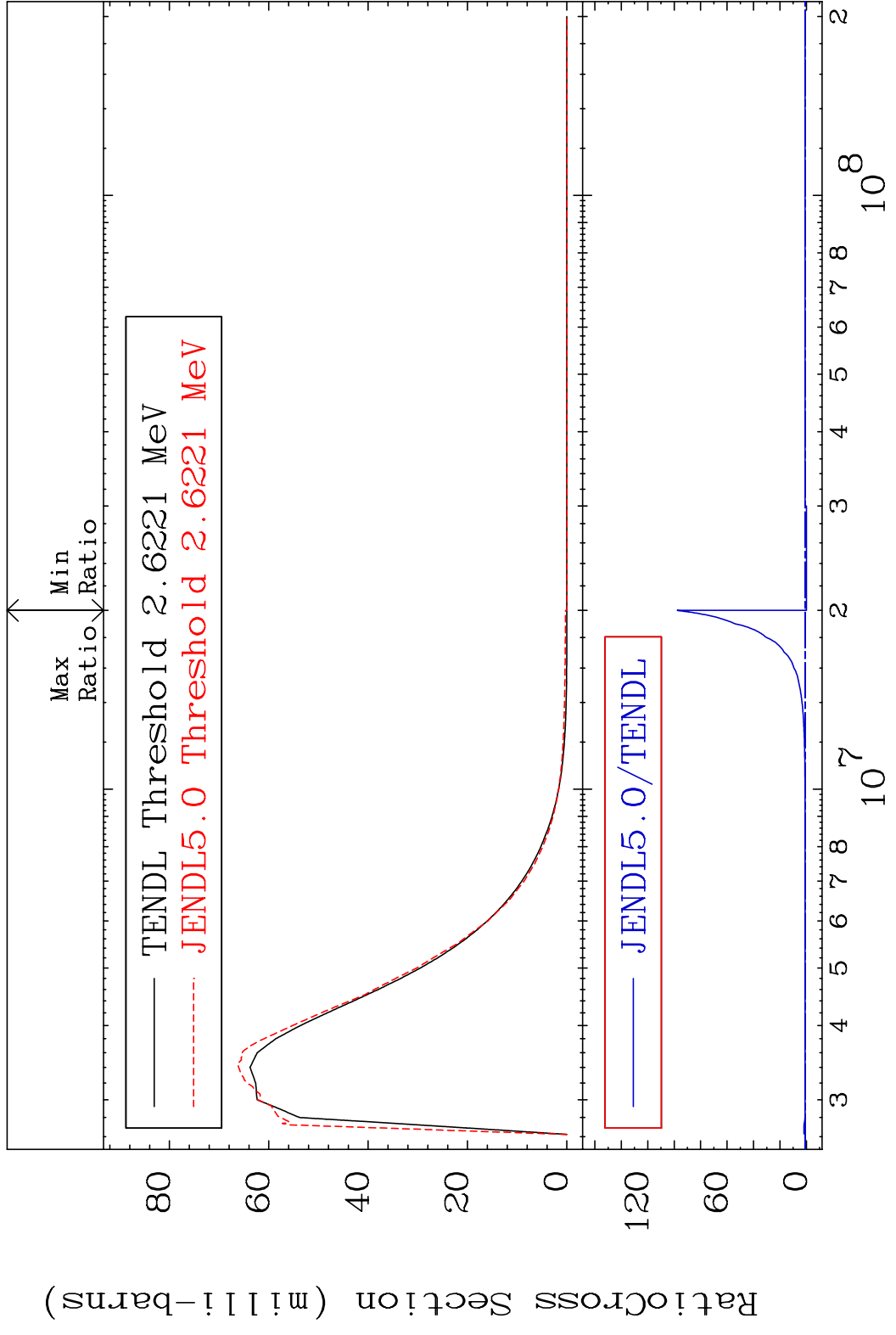
15 25-Mn-53

MAT 2519 MT= 58 (n,n') Level 25-Mn-53  
 Cross Section -100.0 To 935.2 %



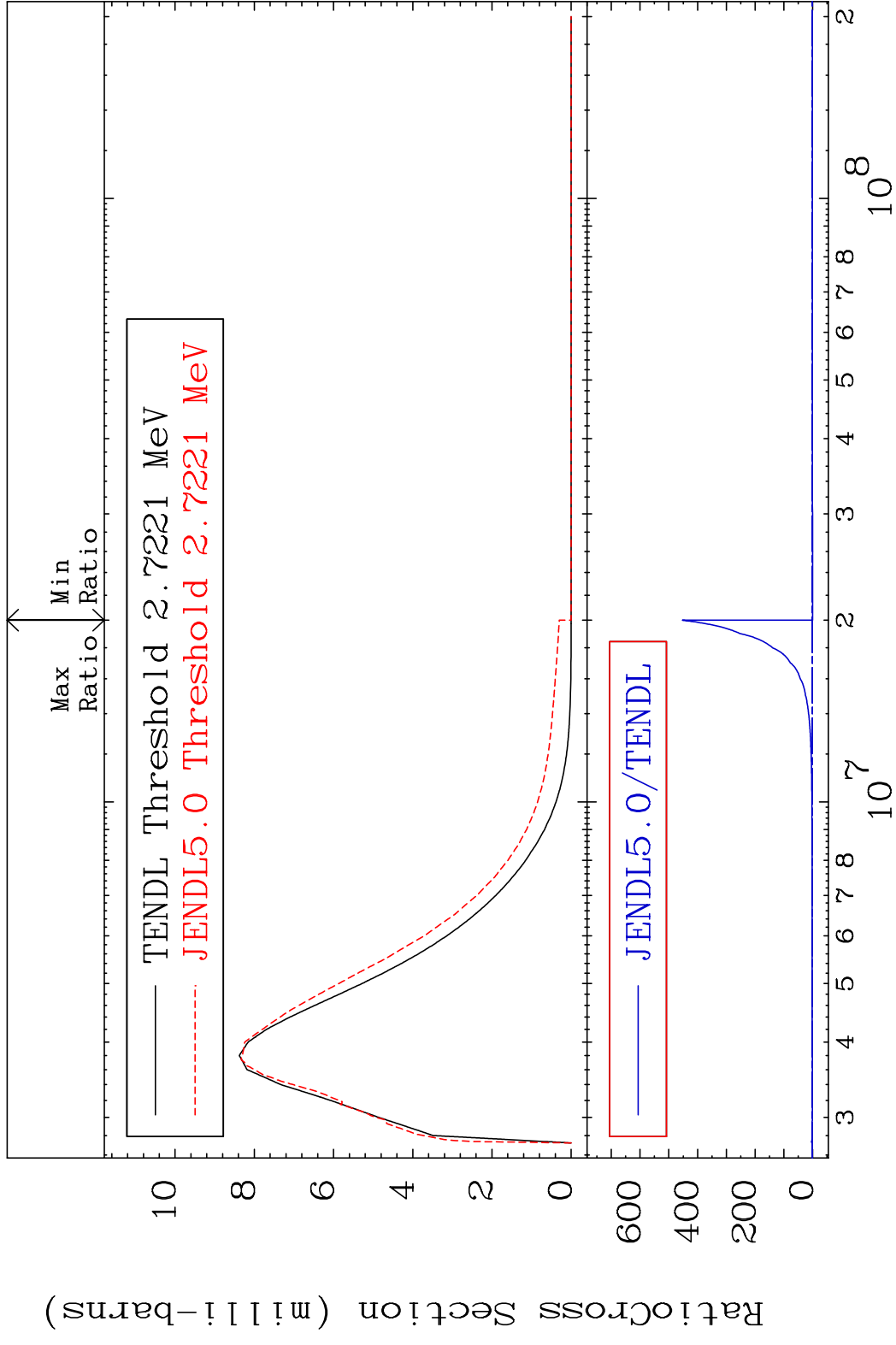
16 25-Mn-53

MAT 2519 MT= 59 (n, n') Level 25-Mn-53  
 Cross Section -100.0 To 9674. %

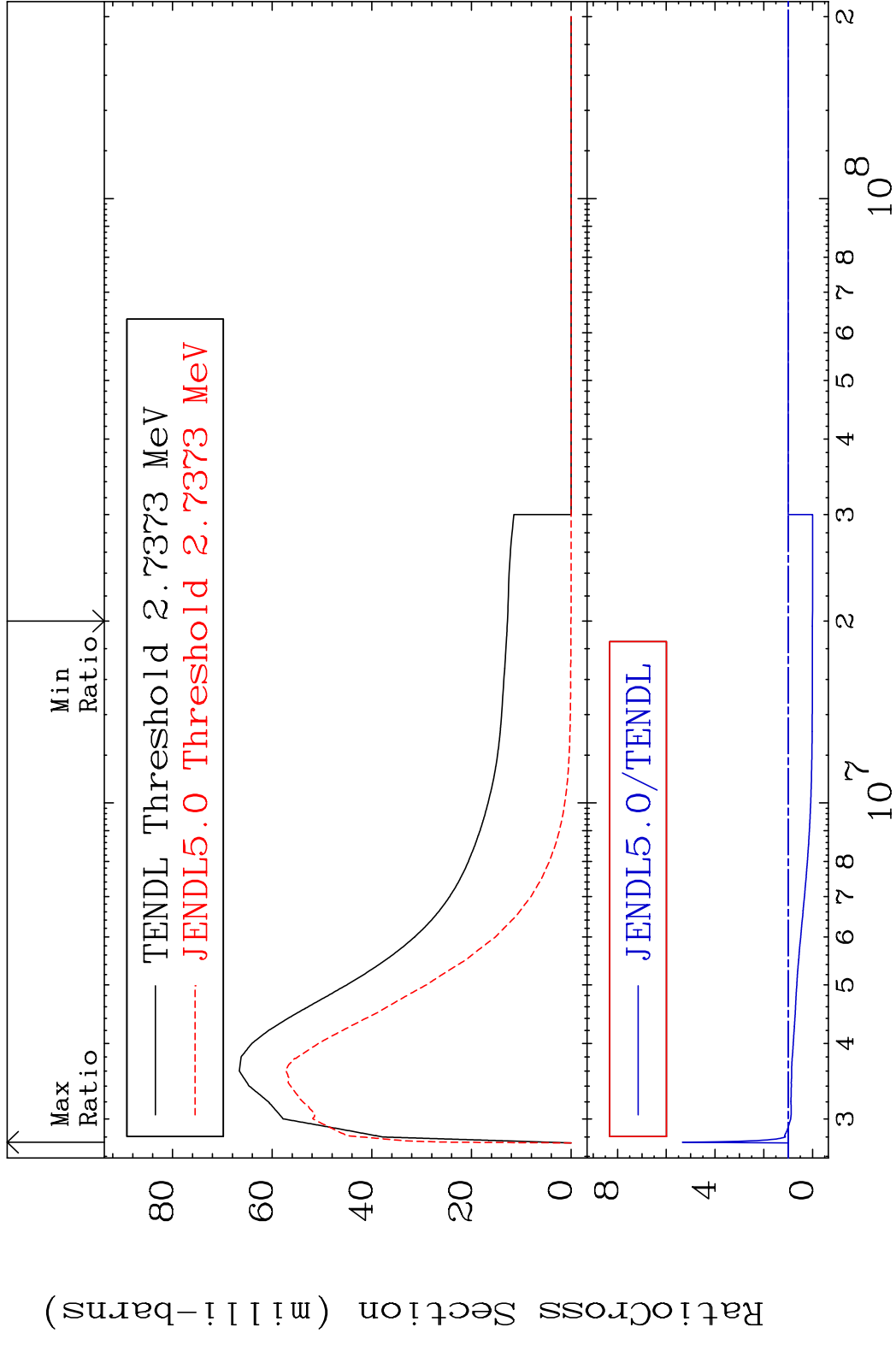


17 25-Mn-53

MAT 2519 MT= 60 (n, n') Level 25-Mn-53  
 Cross Section -100.0 To 9999. %

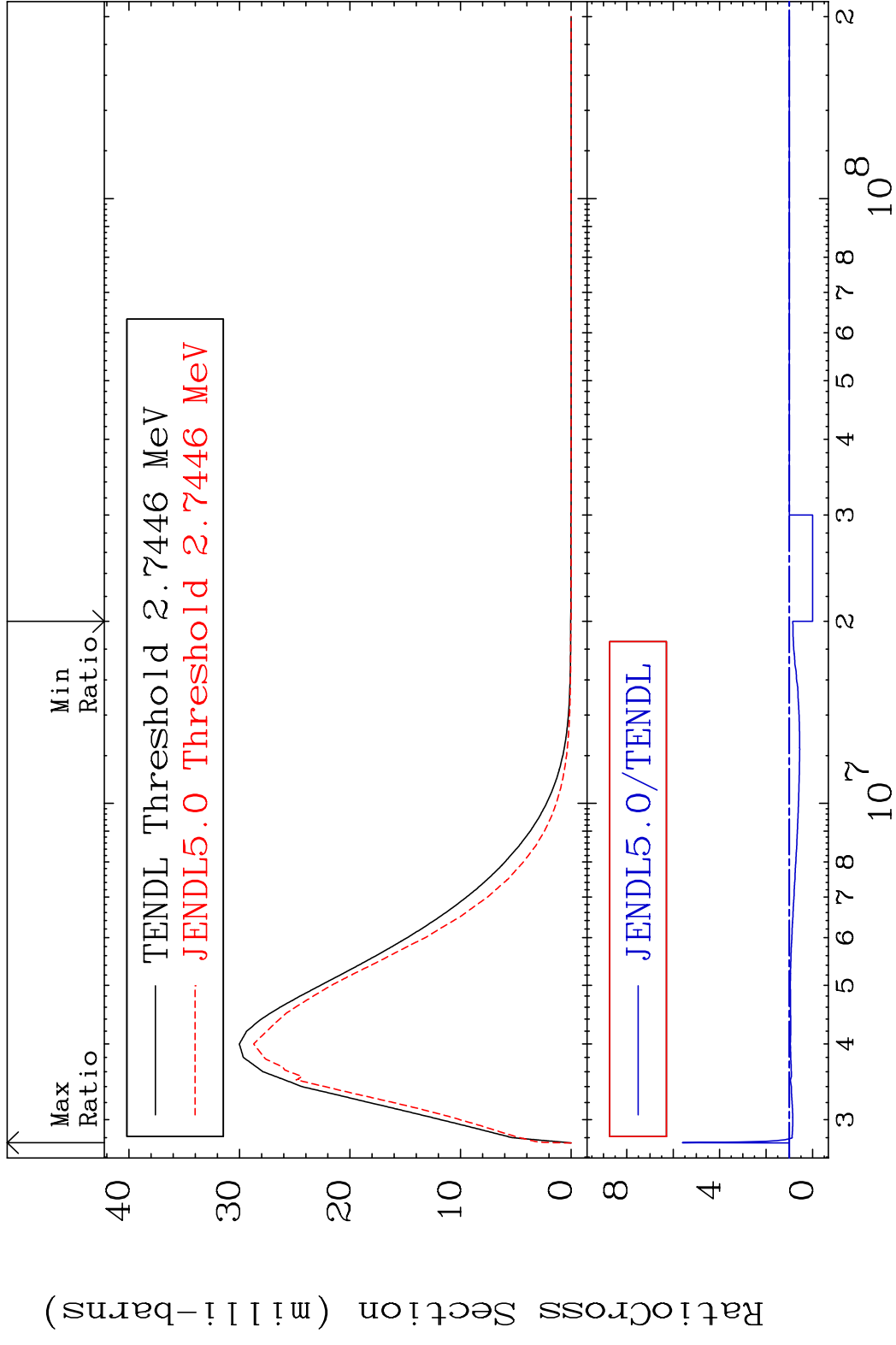


MAT 2519      MT= 61 (n, n') Level      25-Mn-53  
 Cross Section    -100.0 To 434.2 %



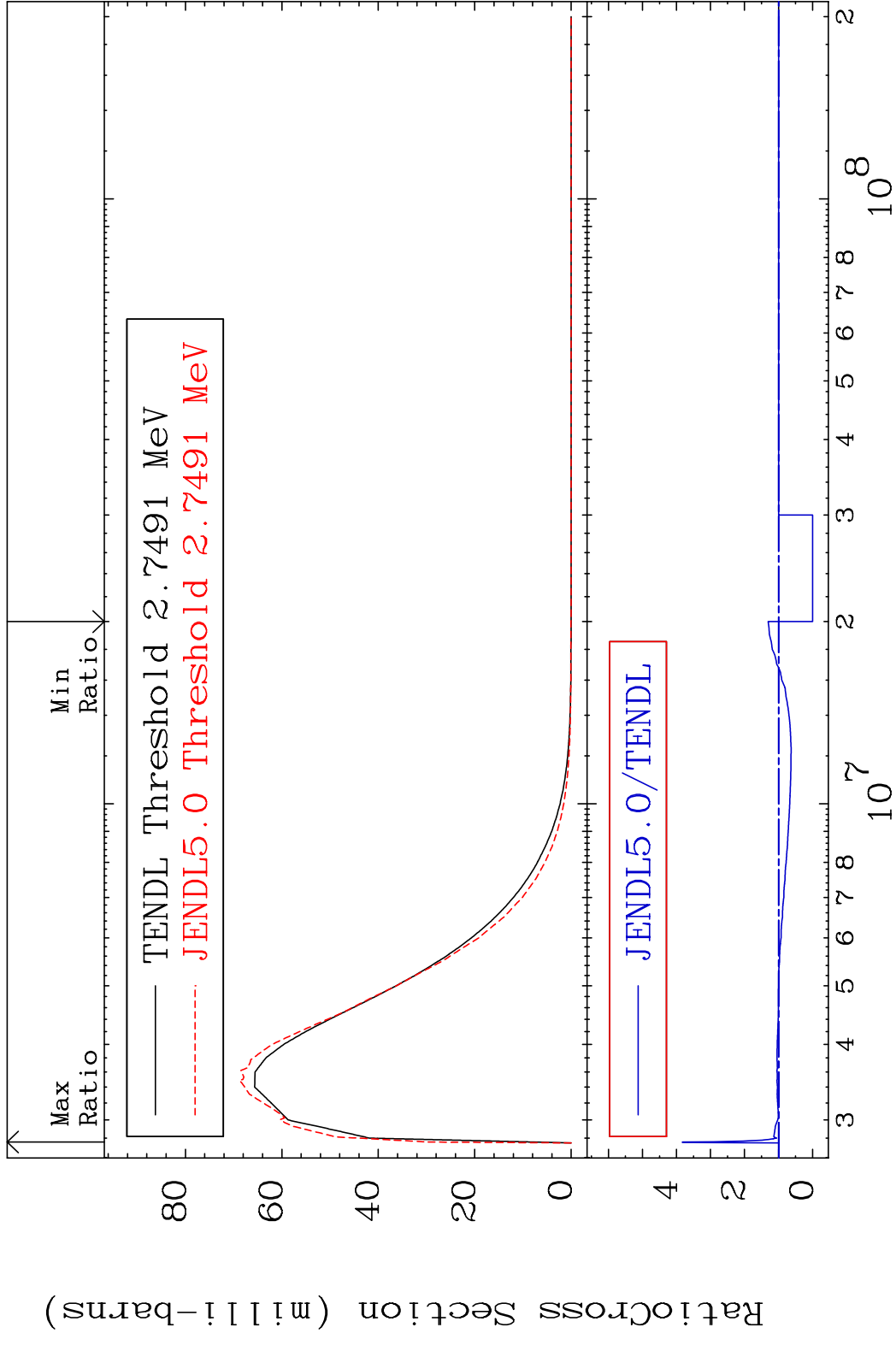
19      Incident Energy (eV)      25-Mn-53

MAT 2519      MT= 62 (n, n') Level      25-Mn-53  
 Cross Section    -100.0 To 460.5 %

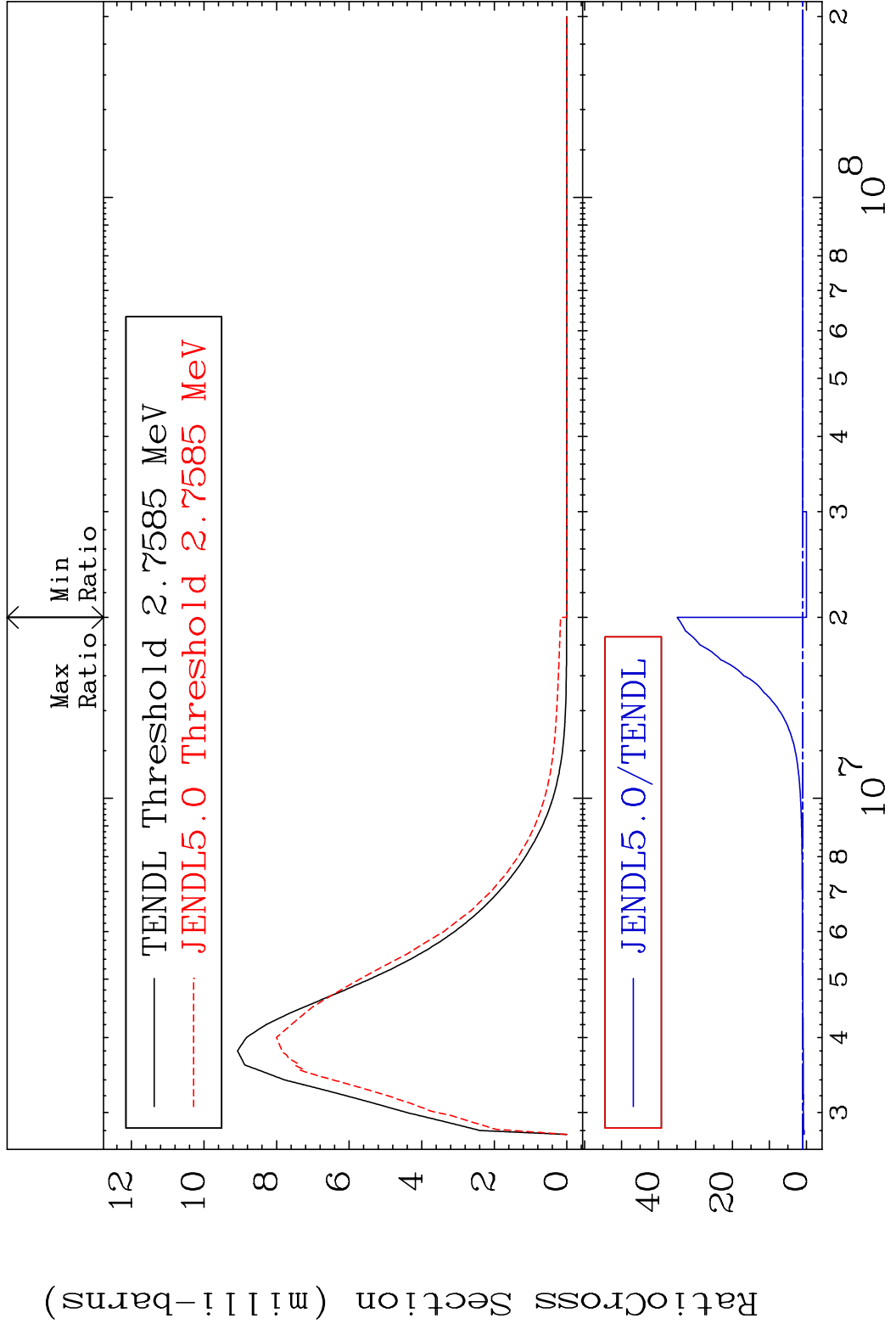


20      Incident Energy (eV)      25-Mn-53

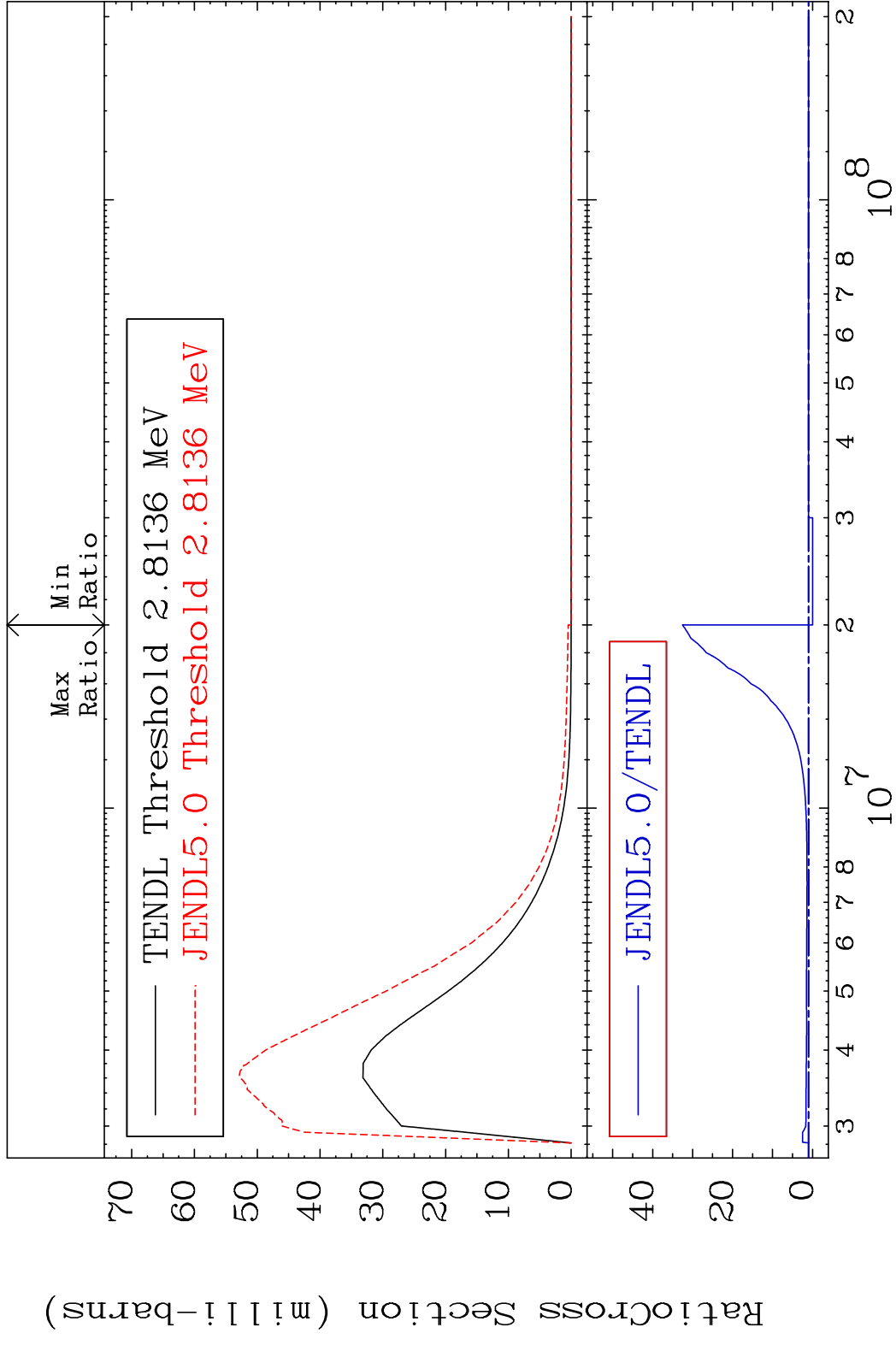
MAT 2519 MT= 63 (n, n') Level 25-Mn-53  
 Cross Section -100.0 To 282.8 %



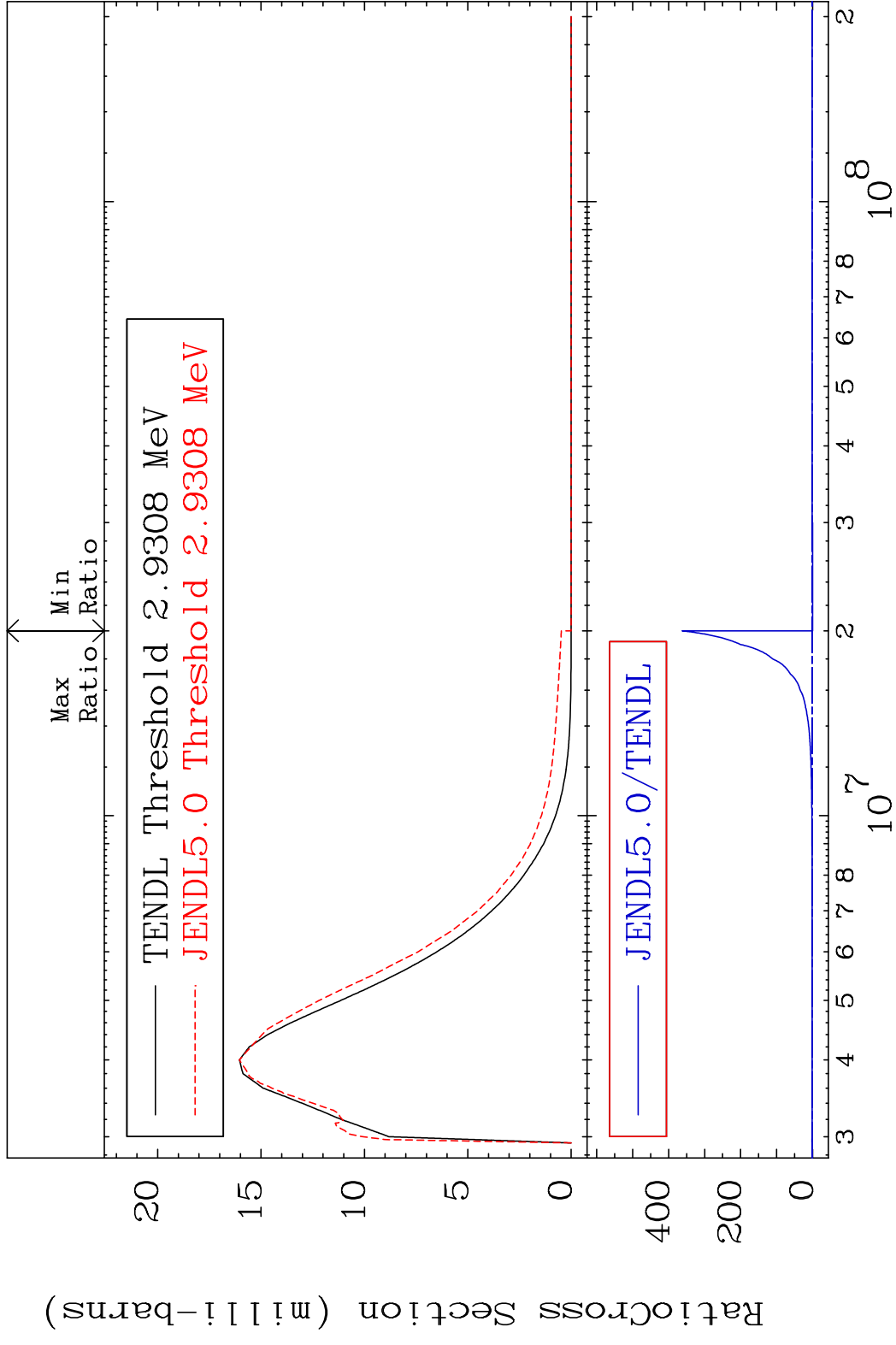
MAT 2519 MT= 64 (n, n') Level 25-Mn-53  
 Cross Section -100.0 To 3395. %



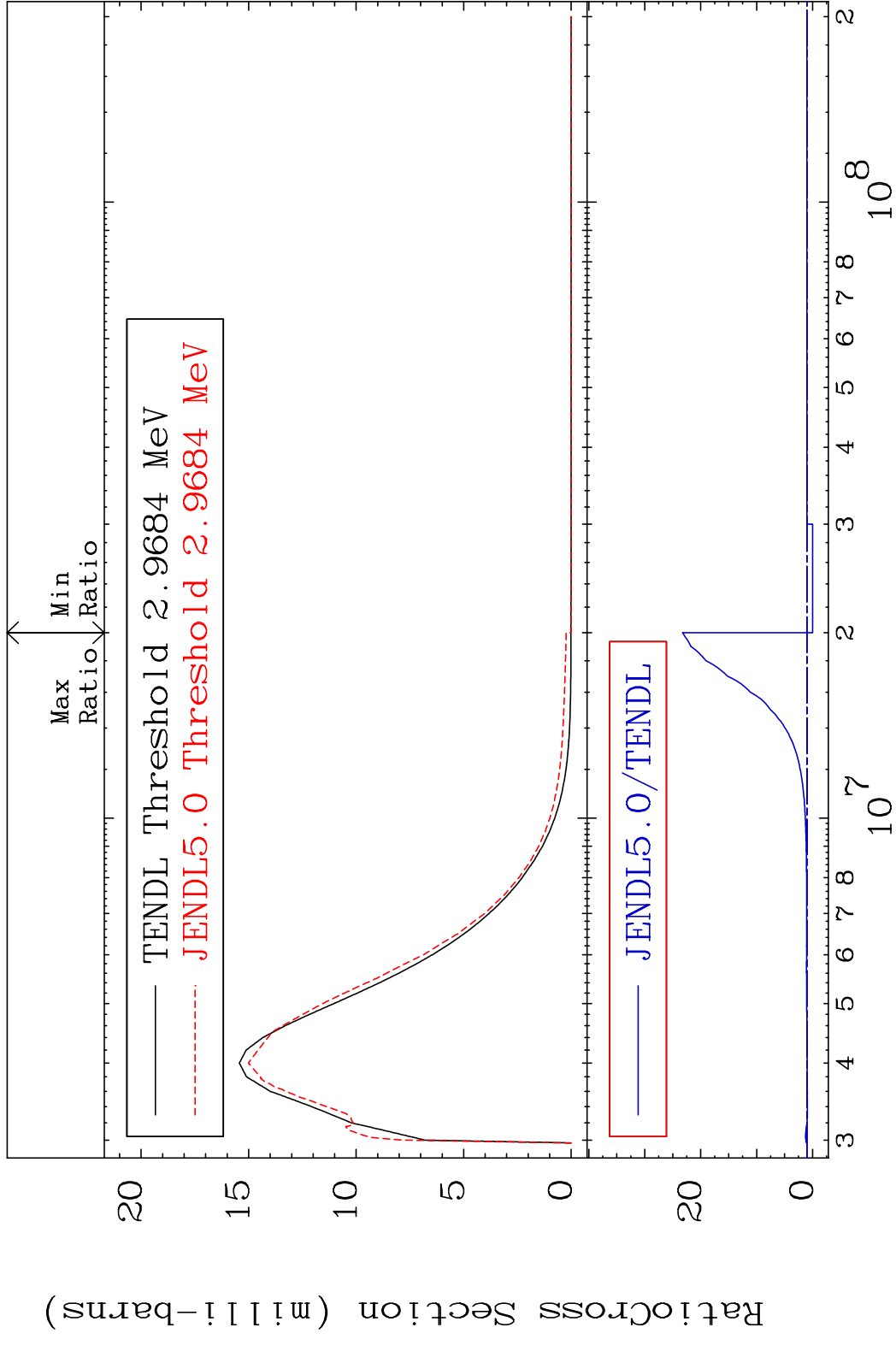
MAT 2519 MT= 65 (n, n') Level 25-Mn-53  
 Cross Section -100.0 To 3157. %



MAT 2519 MT= 66 (n, n') Level 25-Mn-53  
 Cross Section -100.0 To 9999. %

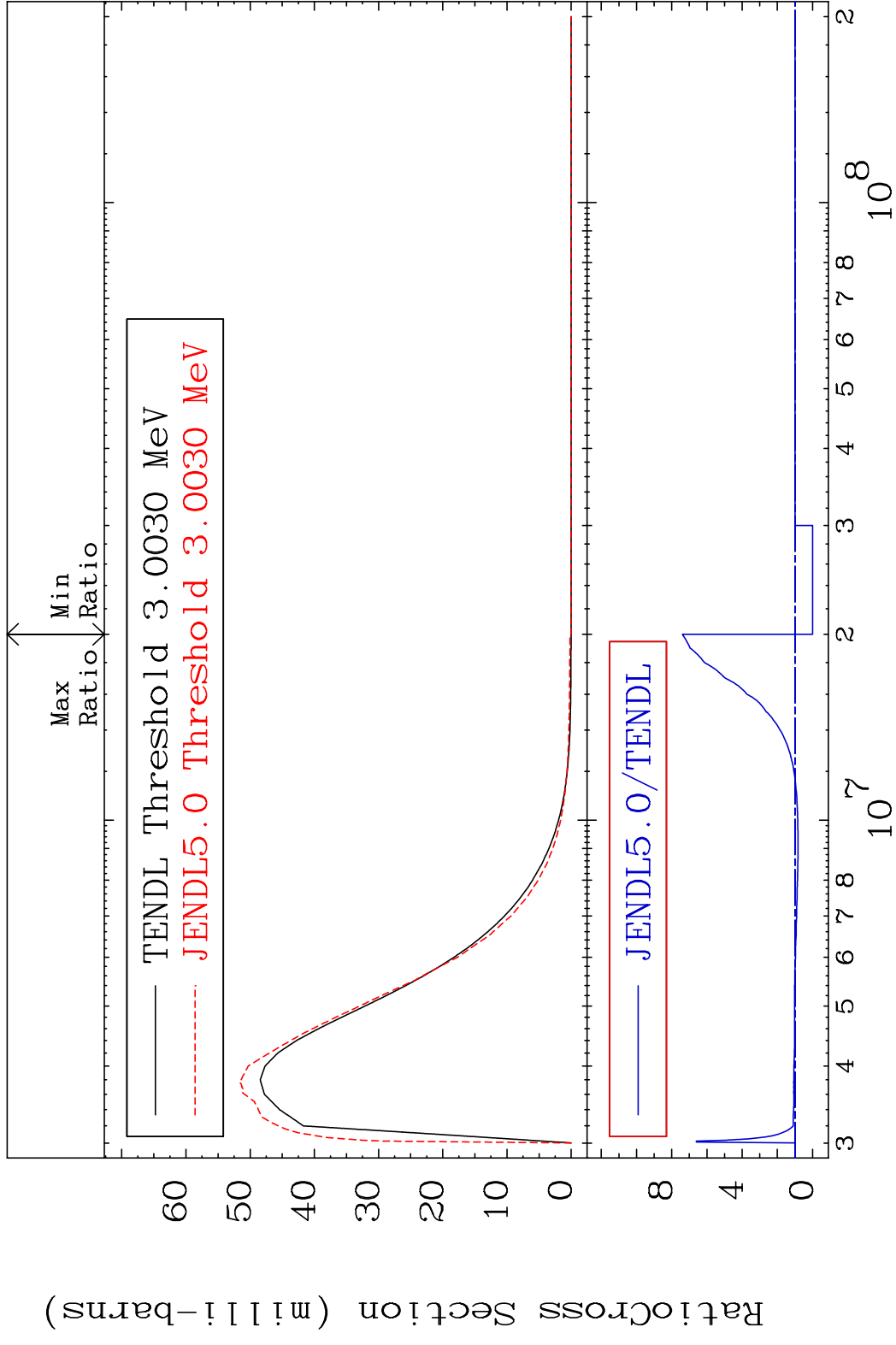


MAT 2519 MT= 67 (n, n') Level 25-Mn-53  
 Cross Section -100.0 To 2228. %

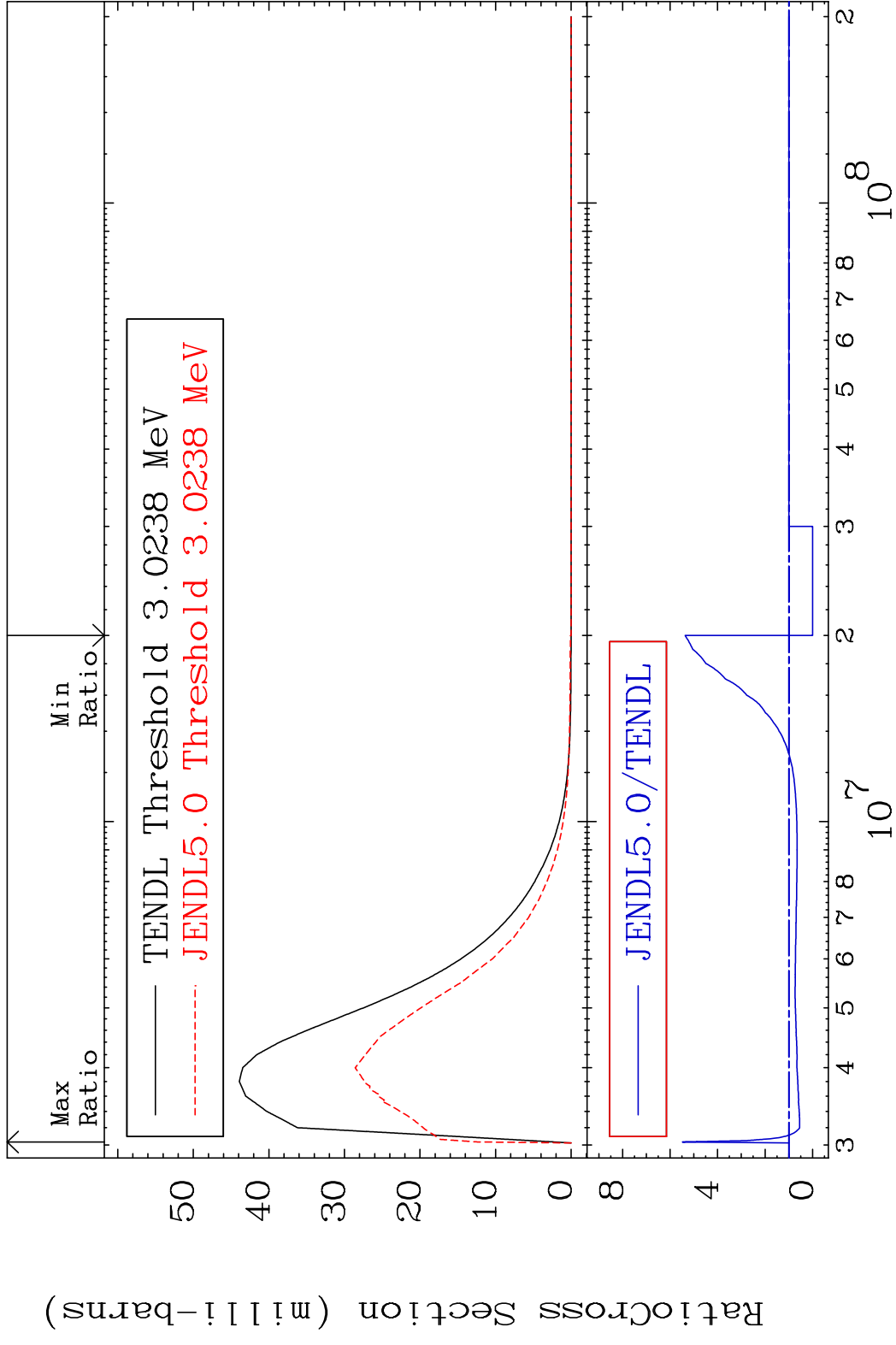


25 Incident Energy (eV) 25-Mn-53

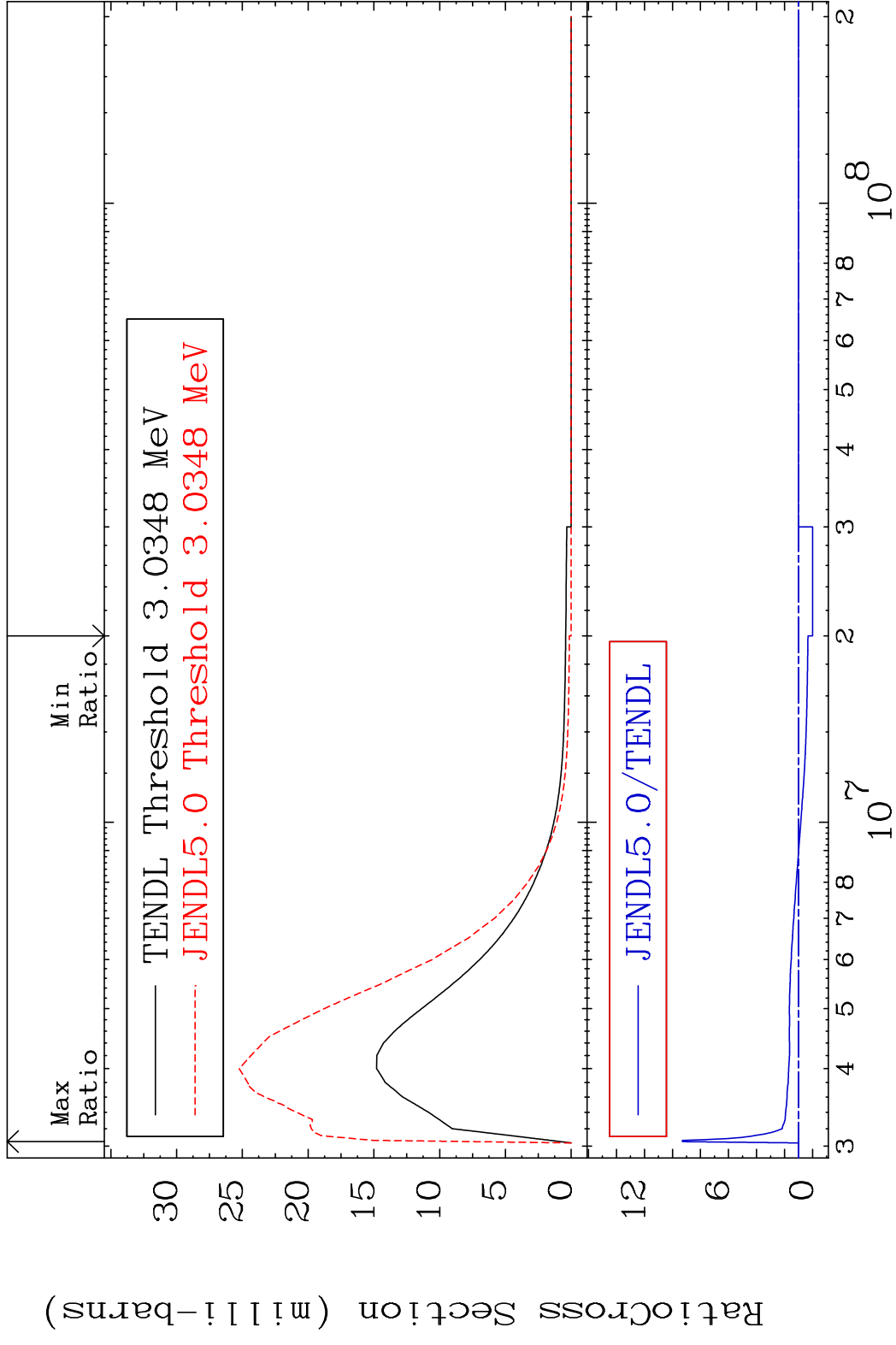
MAT 2519 MT= 68 (n, n') Level 25-Mn-53  
 Cross Section -100.0 To 639.5 %



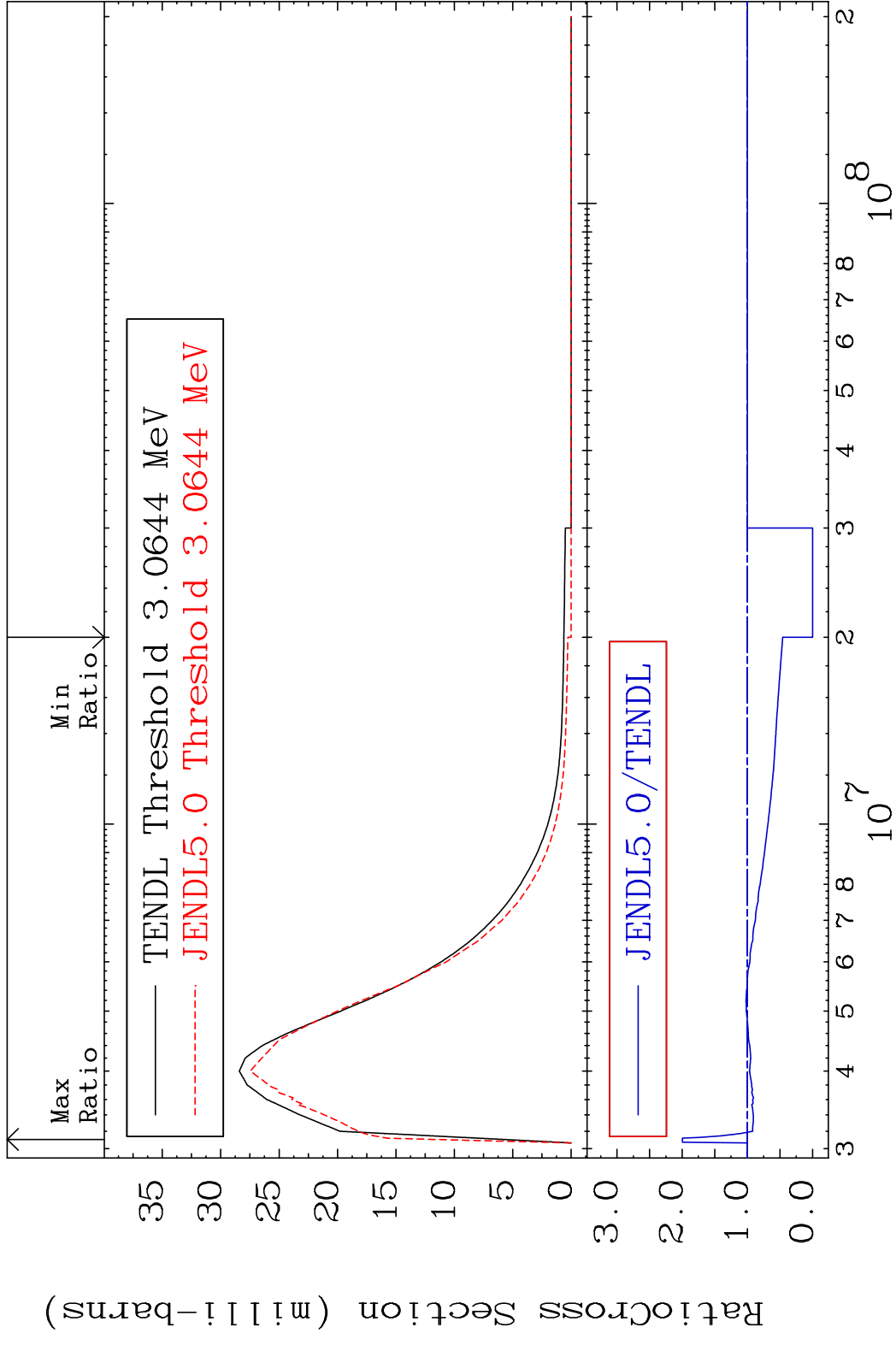
MAT 2519 MT= 69 (n, n') Level 25-Mn-53  
 Cross Section -100.0 To 448.3 %



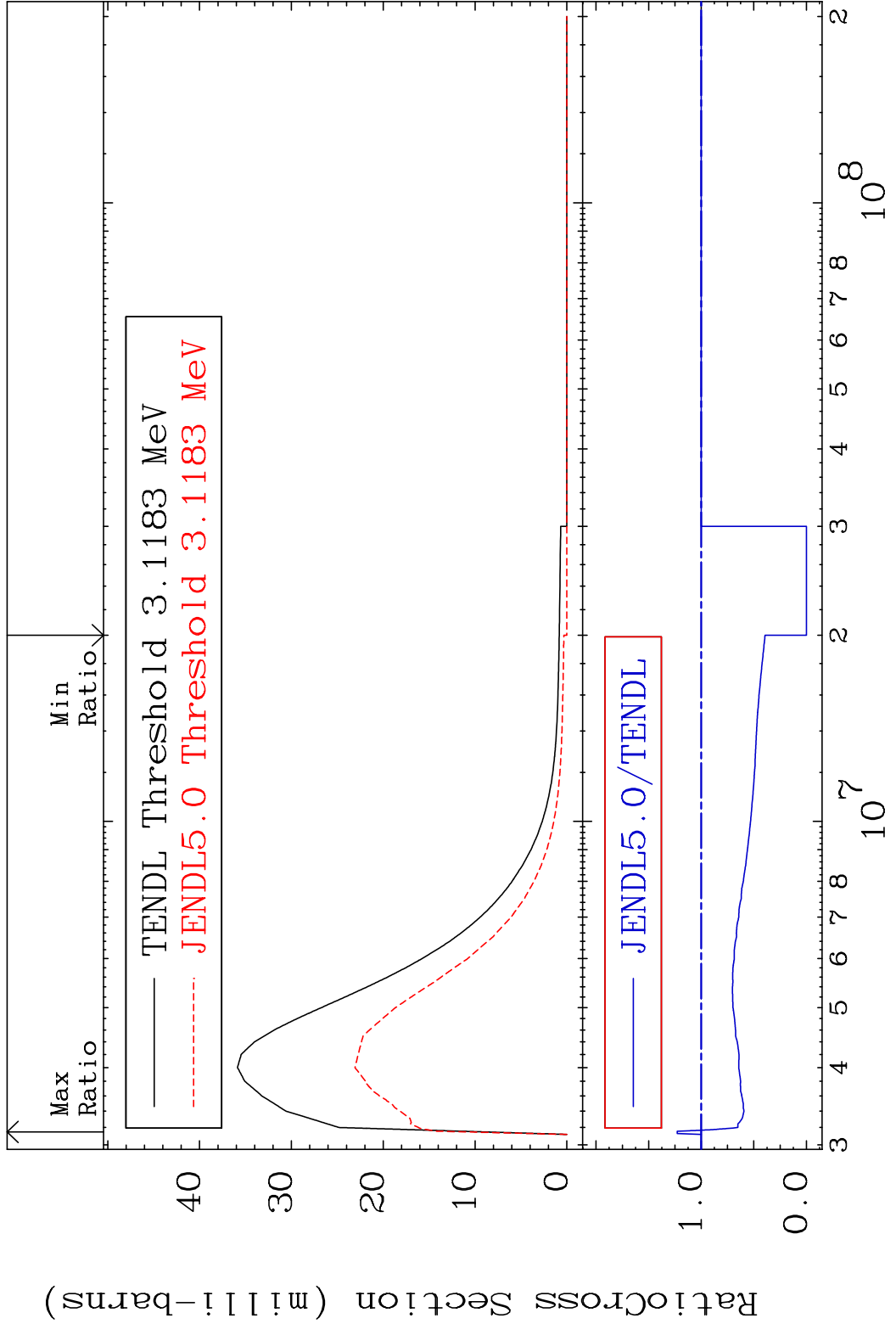
MAT 2519 MT= 70 (n,n') Level 25-Mn-53  
 Cross Section -100.0 To 829.5 %



MAT 2519 MT= 71 (n,n') Level 25-Mn-53  
 Cross Section -100.0 To 99.71 %

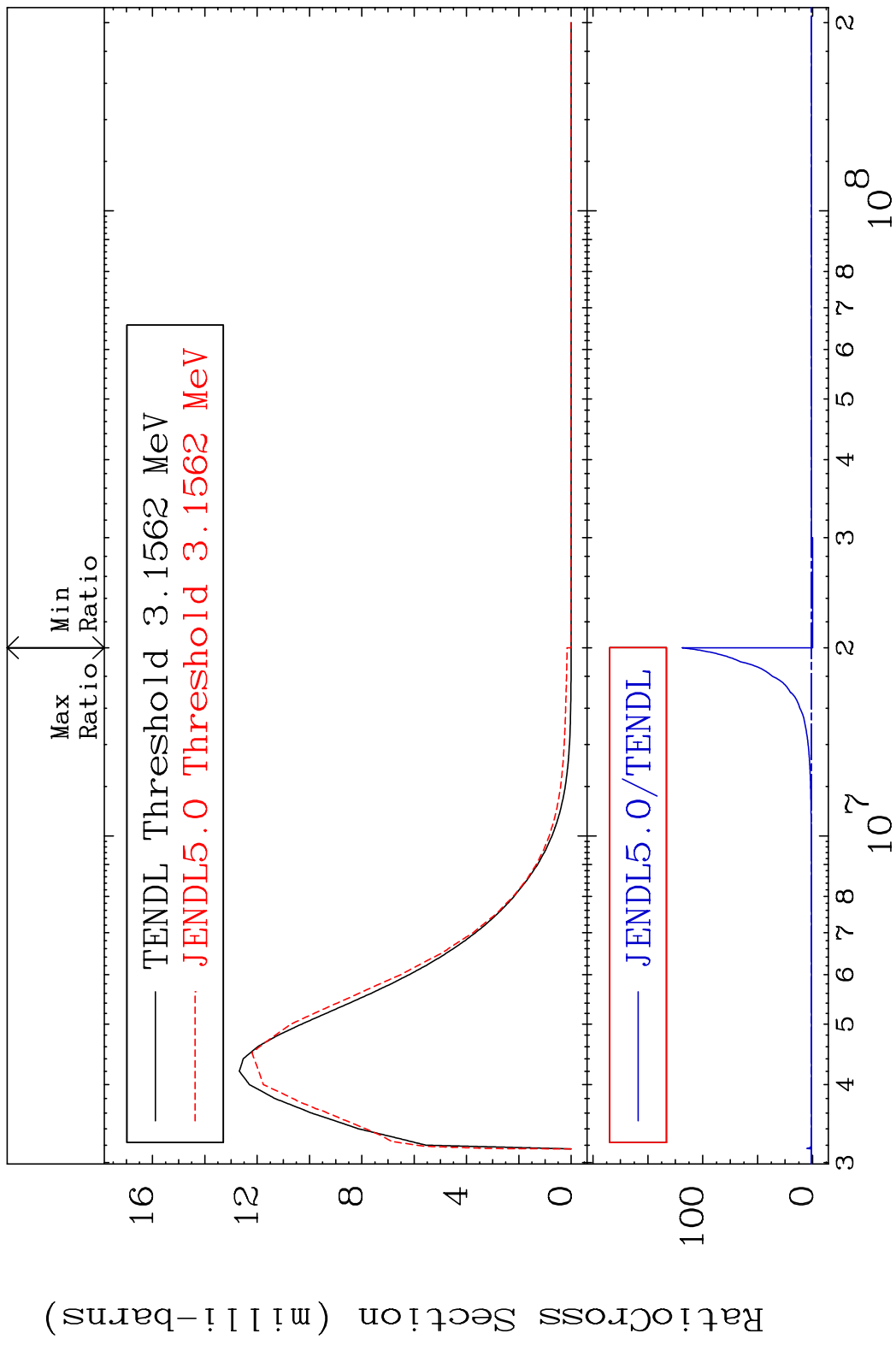


MAT 2519 MT= 72 (n, n') Level 25-Mn-53  
 Cross Section -100.0 To 22.86 %

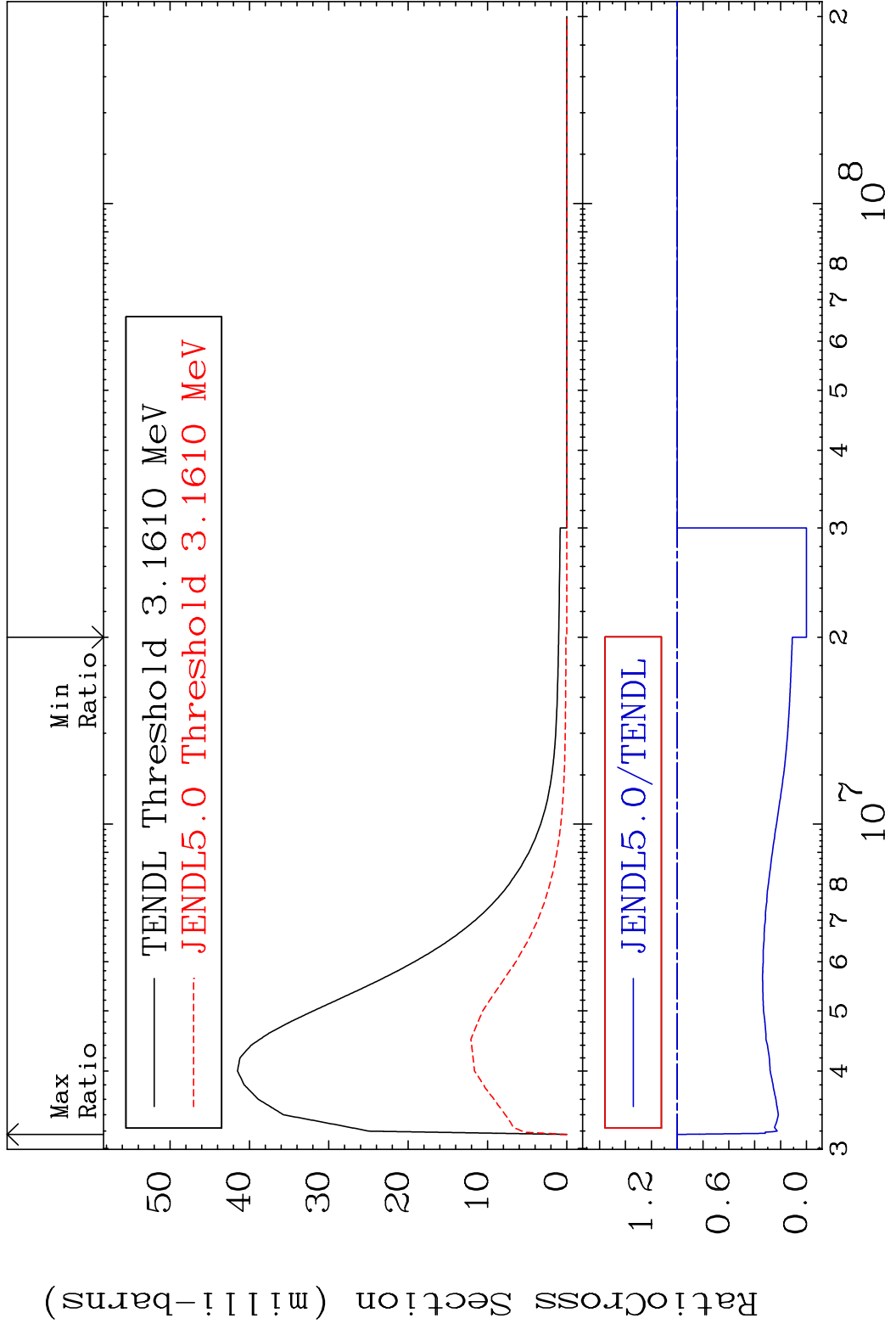


30 Incident Energy (eV) 25-Mn-53

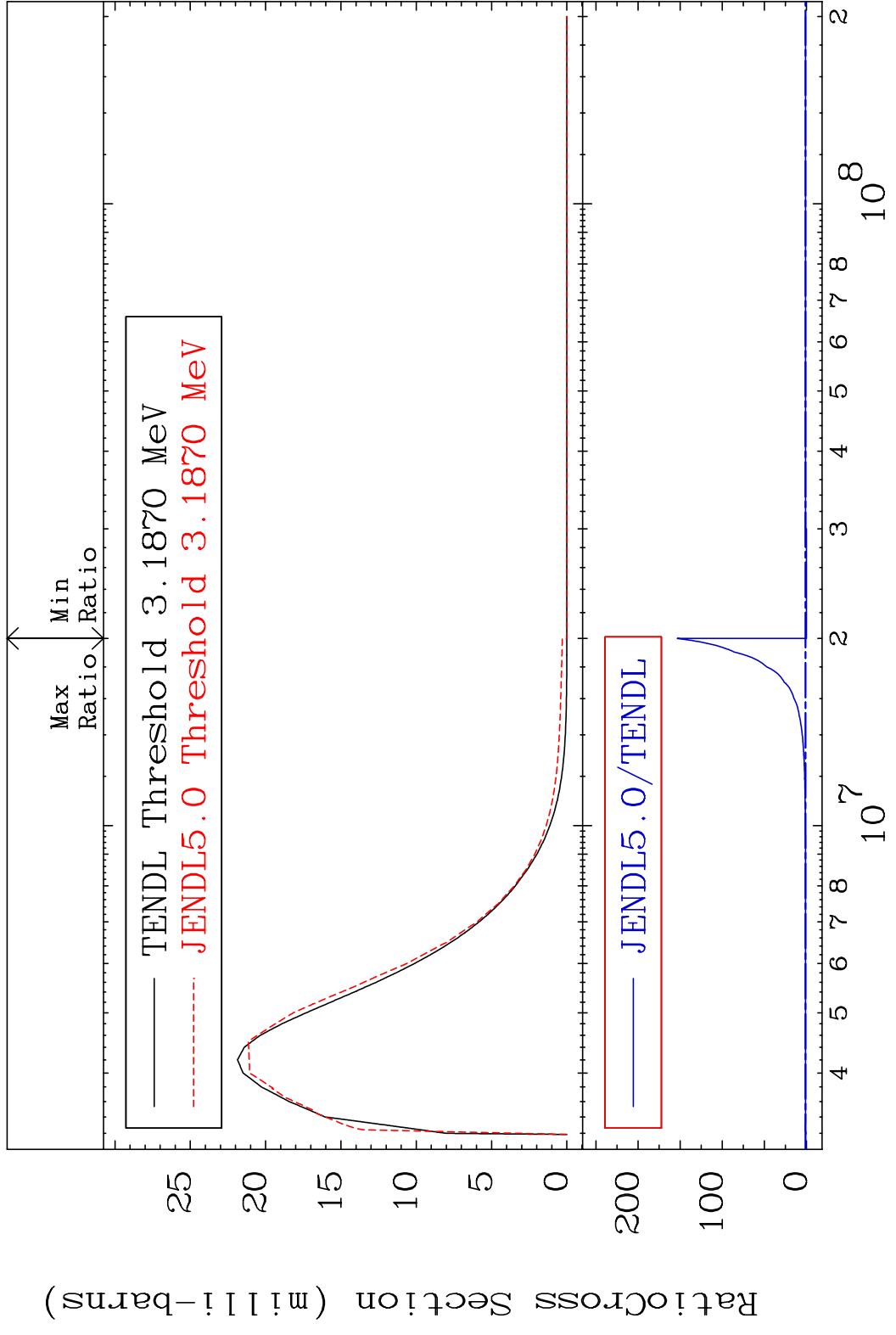
MAT 2519 MT= 73 (n, n') Level 25-Mn-53  
 Cross Section -100.0 To 9999. %



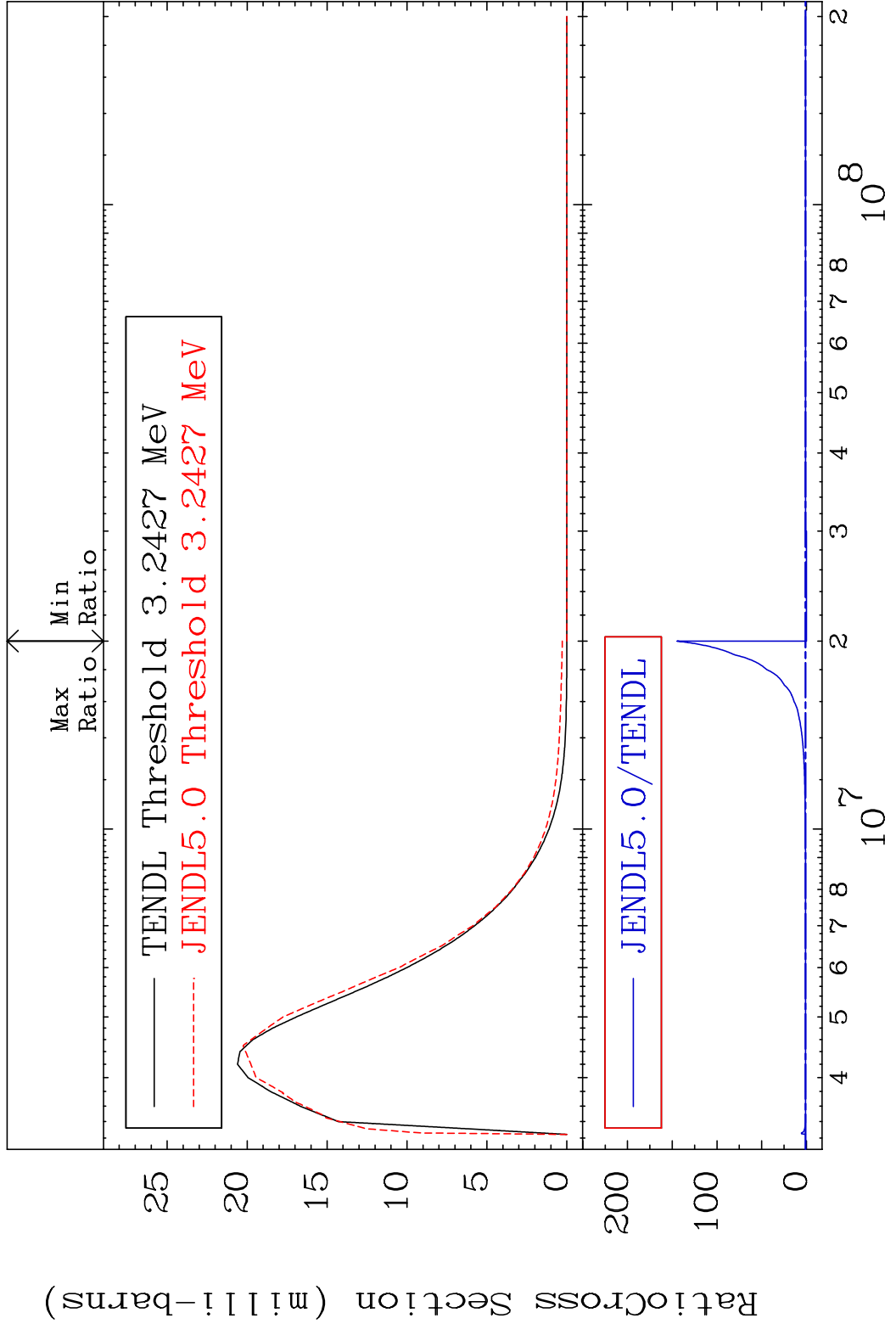
MAT 2519 MT= 74 (n, n') Level 25-Mn-53  
 Cross Section -100.0 To 0.000 %



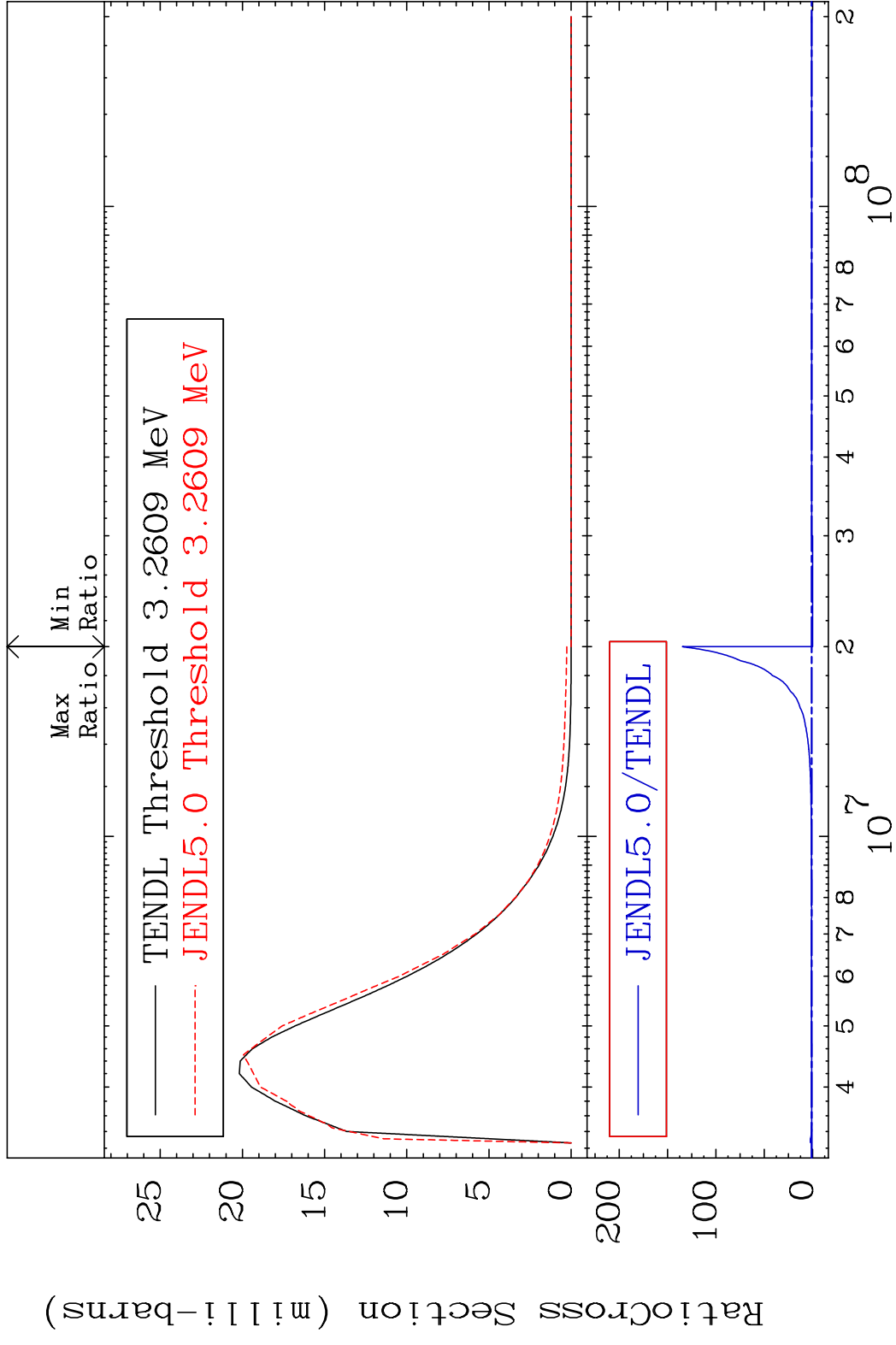
MAT 2519 MT= 75 (n, n') Level 25-Mn-53  
 Cross Section -100.0 To 9999. %



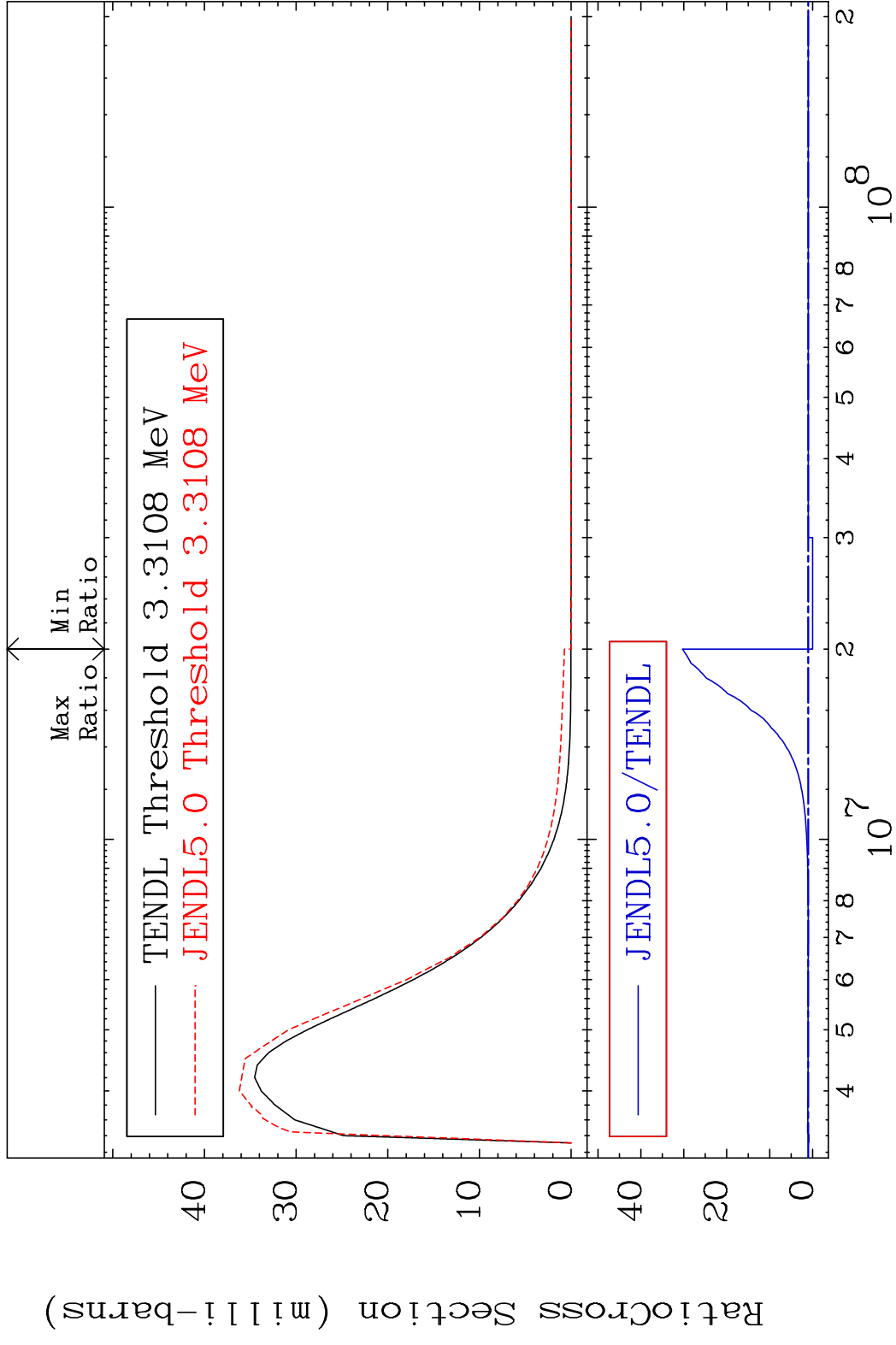
MAT 2519 MT= 76 (n, n') Level 25-Mn-53  
 Cross Section -100.0 To 9999. %



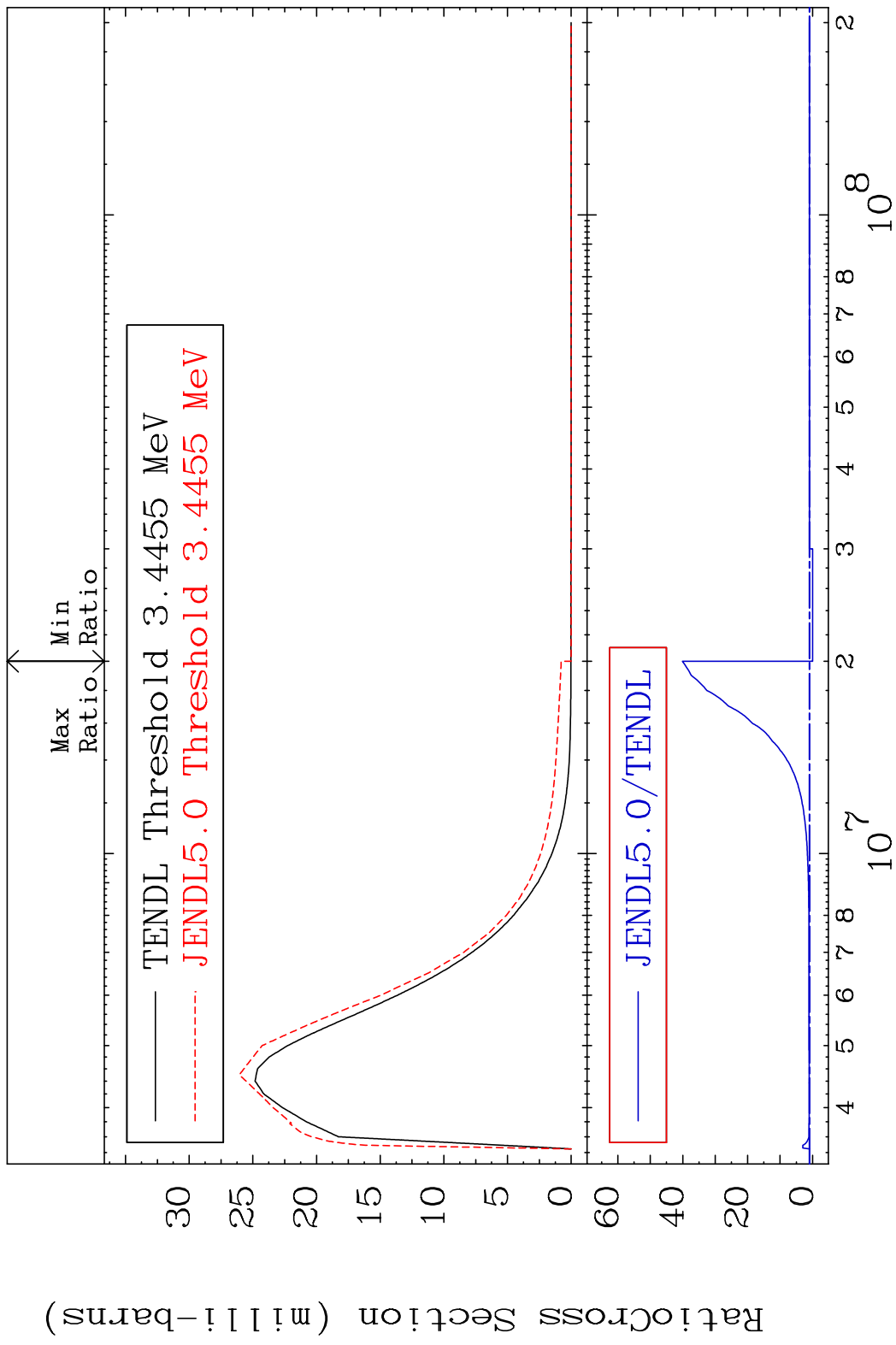
MAT 2519 MT= 77 (n, n') Level 25-Mn-53  
 Cross Section -100.0 To 9999. %



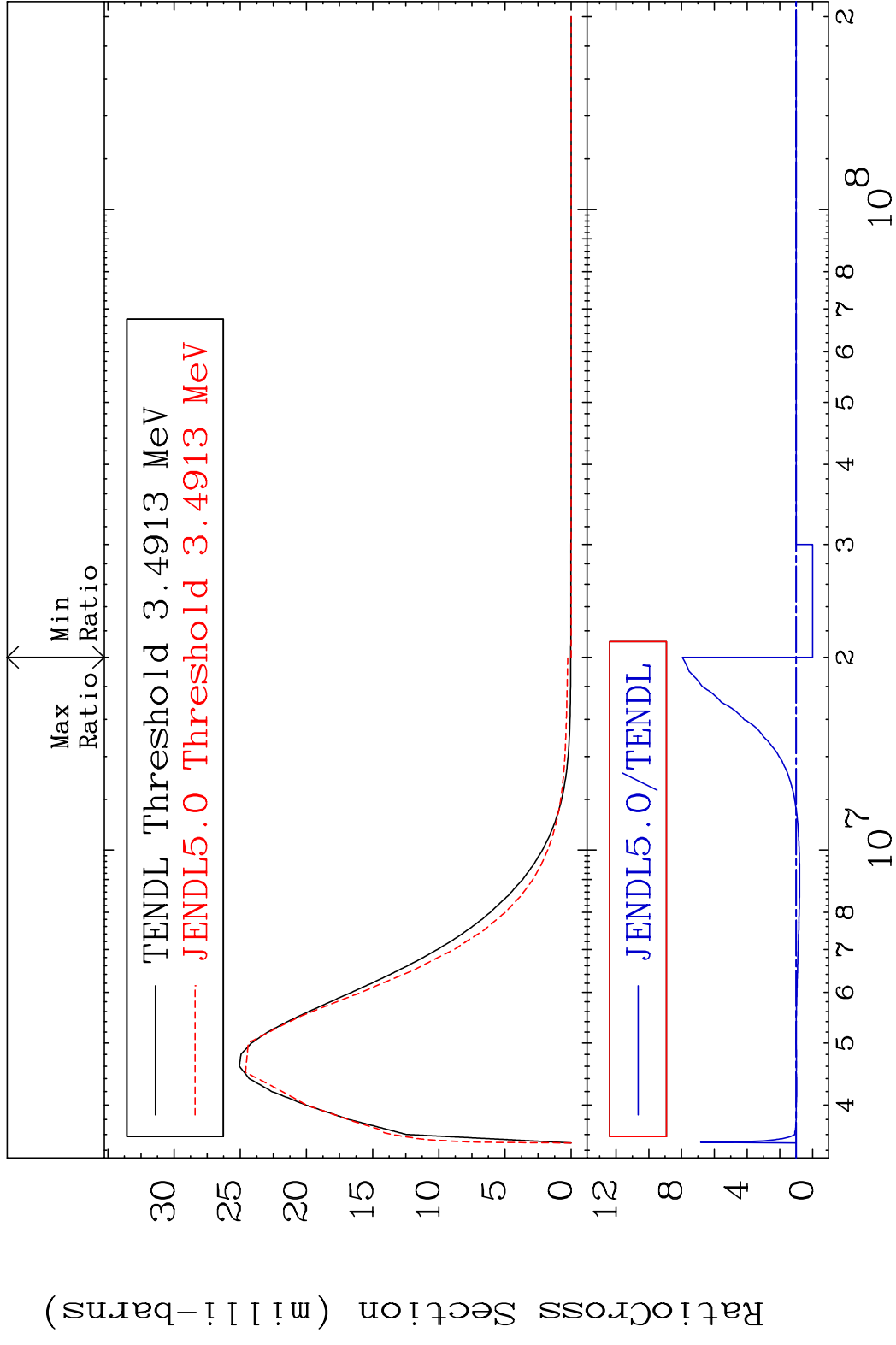
MAT 2519 MT= 78 (n, n') Level 25-Mn-53  
 Cross Section -100.0 To 2934. %



MAT 2519 MT= 79 (n, n') Level 25-Mn-53  
 Cross Section -100.0 To 3912. %



MAT 2519 MT= 80 (n, n') Level 25-Mn-53  
 Cross Section -100.0 To 695.0 %

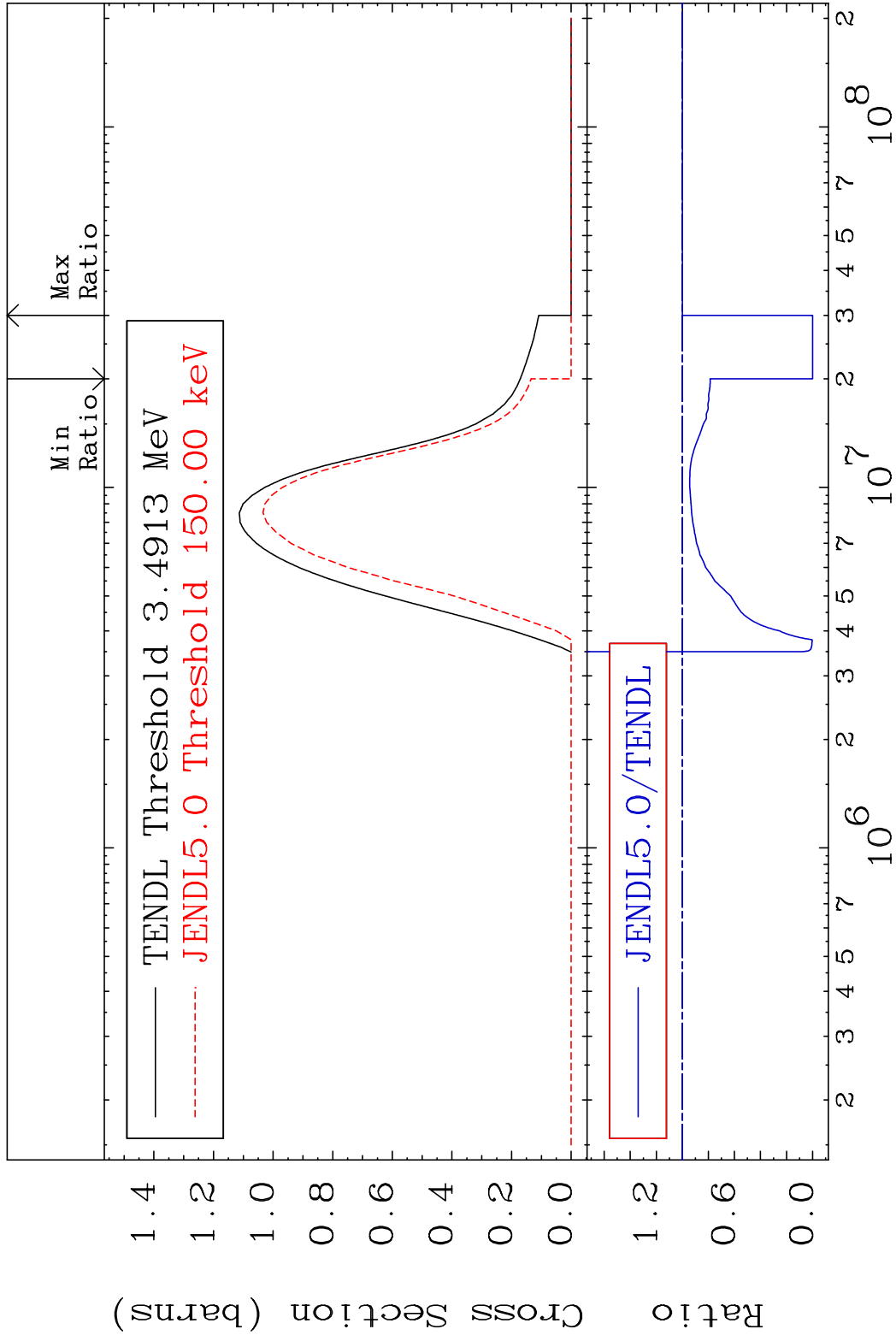


MAT 2519

(n,n') Continuum

25-Mn-53

Cross Section -100.0 To 0.000 %



39

Incident Energy (eV)

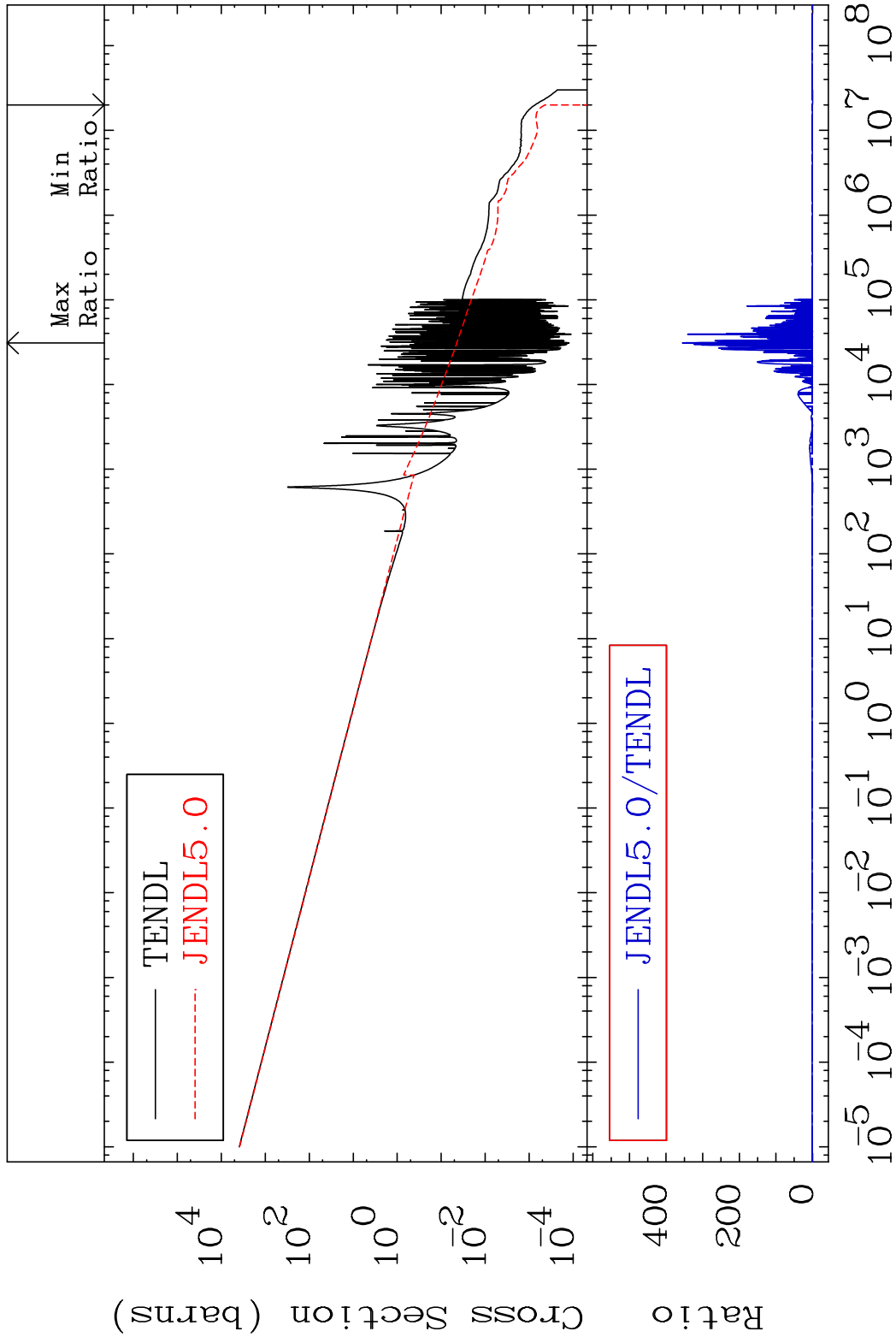
25-Mn-53

MAT 2519

(n,  $\gamma$ )

25-Mn-53

Cross Section -100.0 To 9999. %



40

Incident Energy (eV)

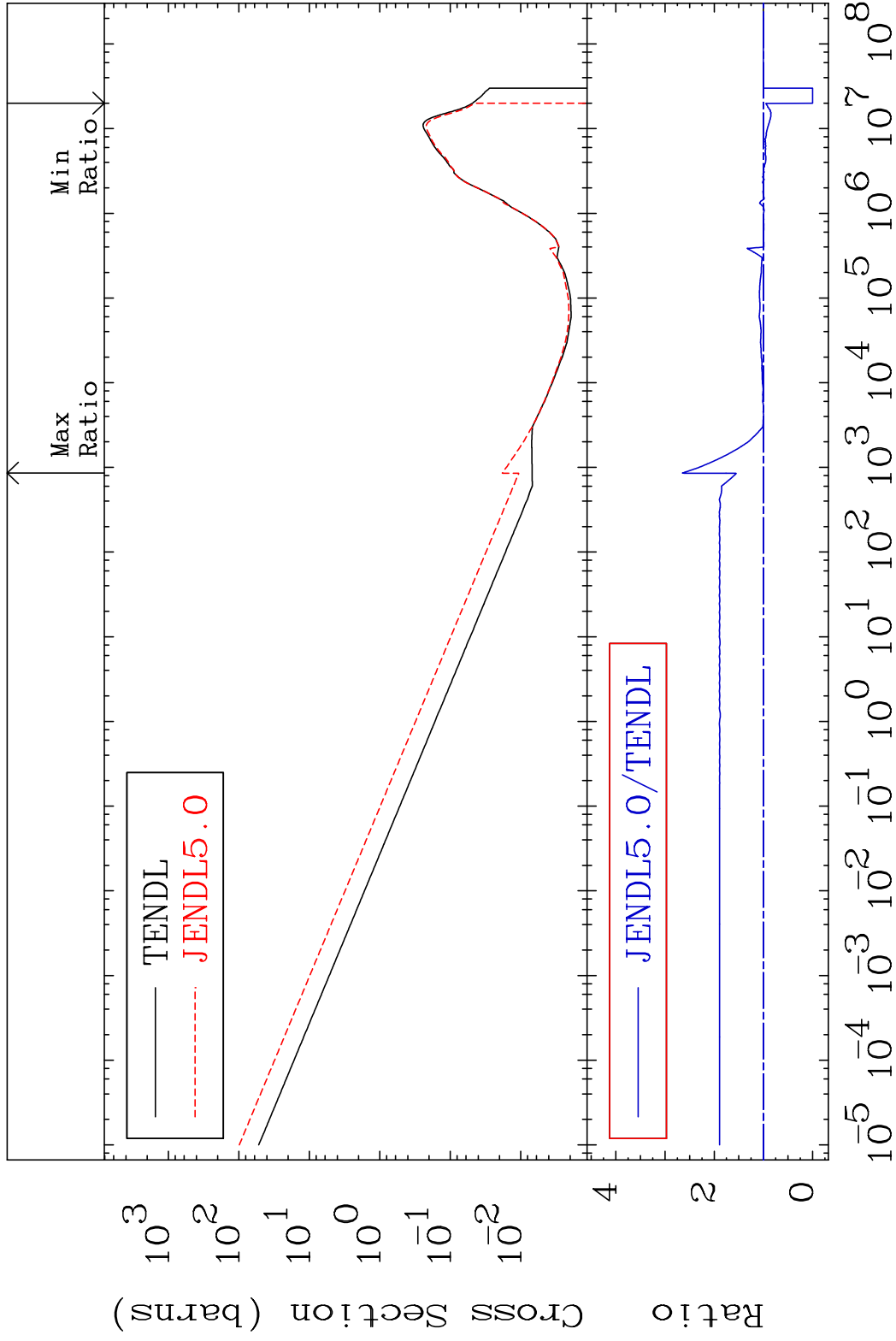
25-Mn-53

MAT 2519

(n, p)

25-Mn-53

Cross Section -100.0 To 164.8 %

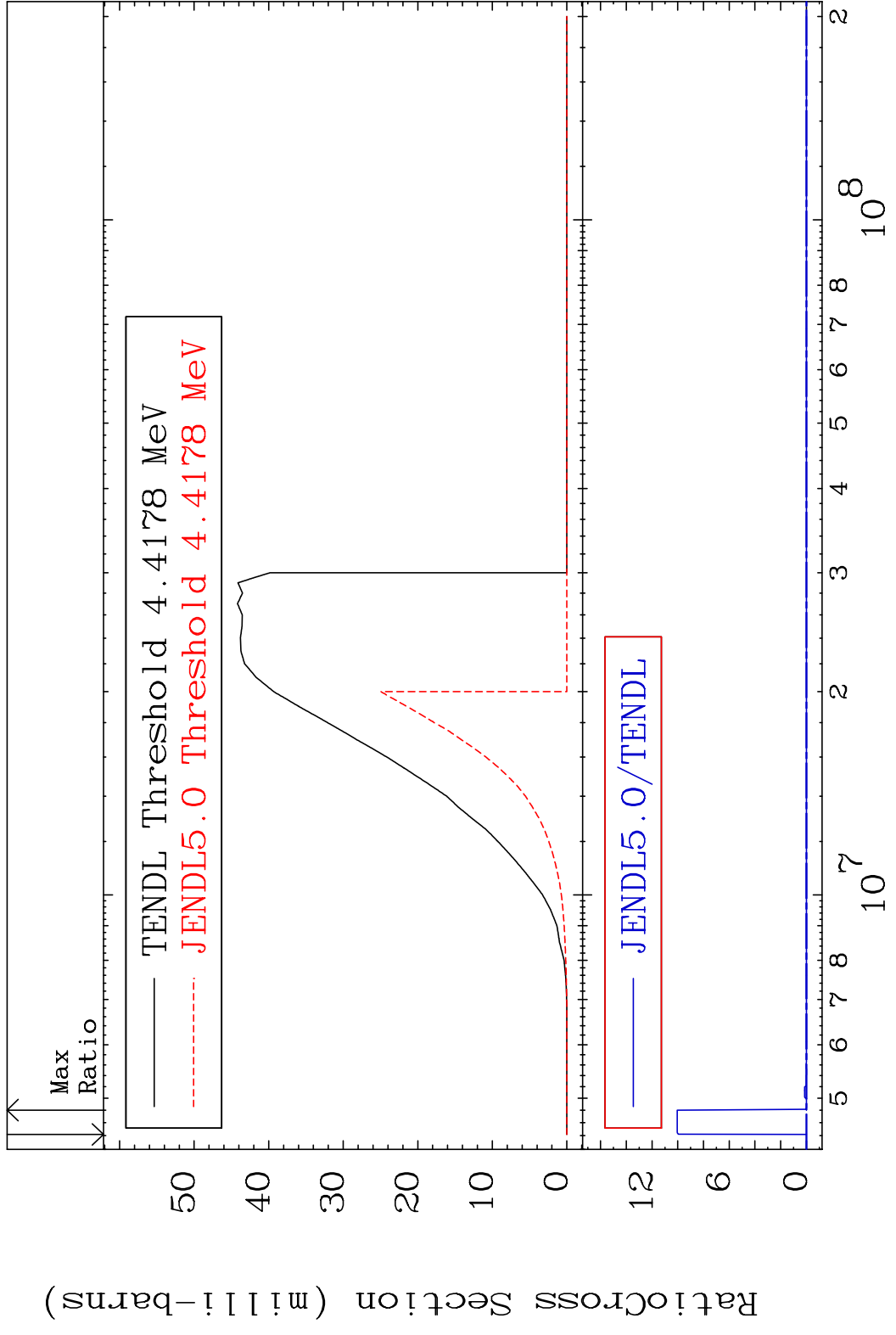


41

Incident Energy (eV)

25-Mn-53

MAT 2519 (n,d) 25-Mn-53  
 Cross Section -100.0 To 9999. %

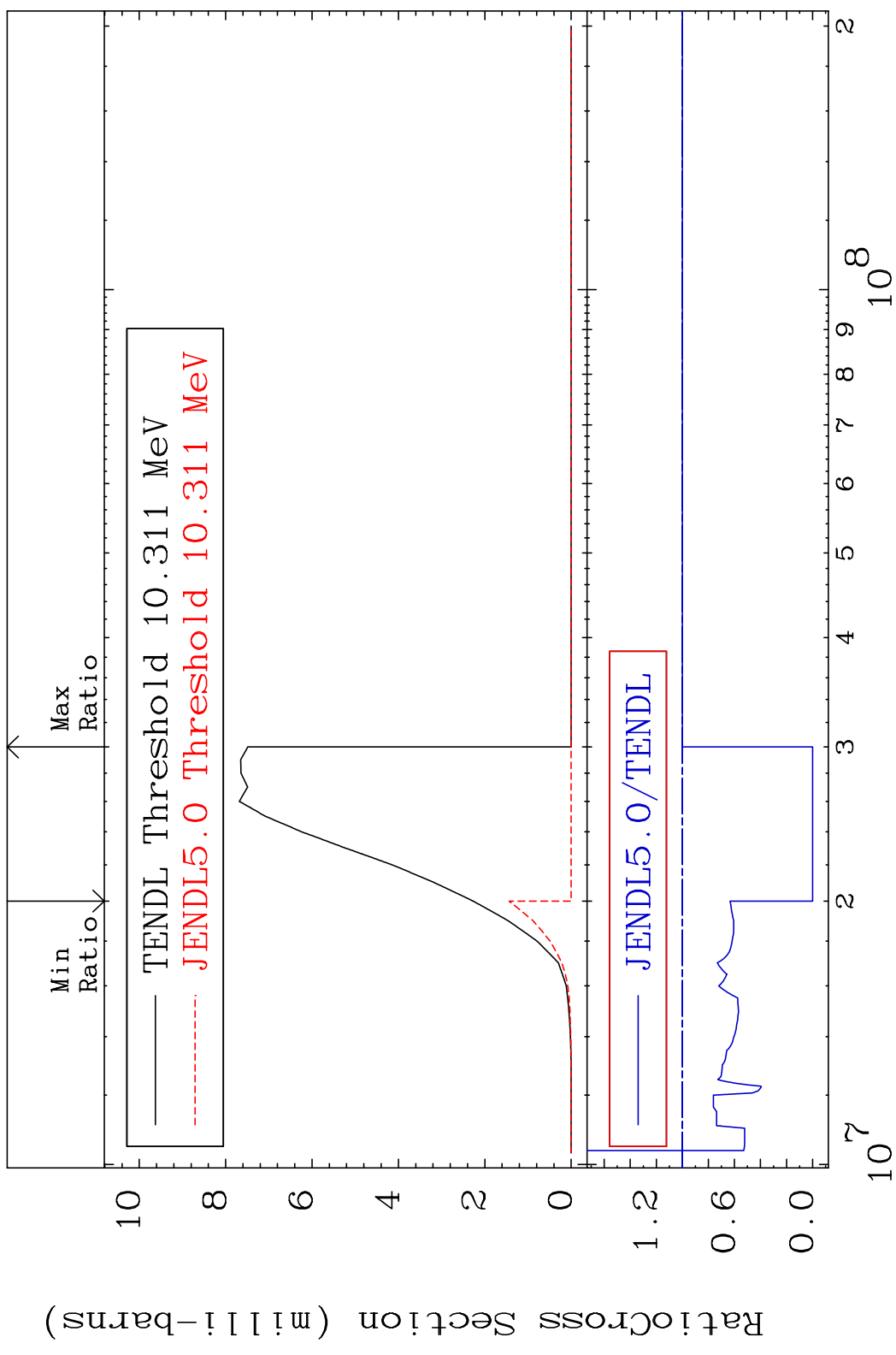


MAT 2519

(n, t)

25-Mn-53

Cross Section -100.0 To 0.000 %

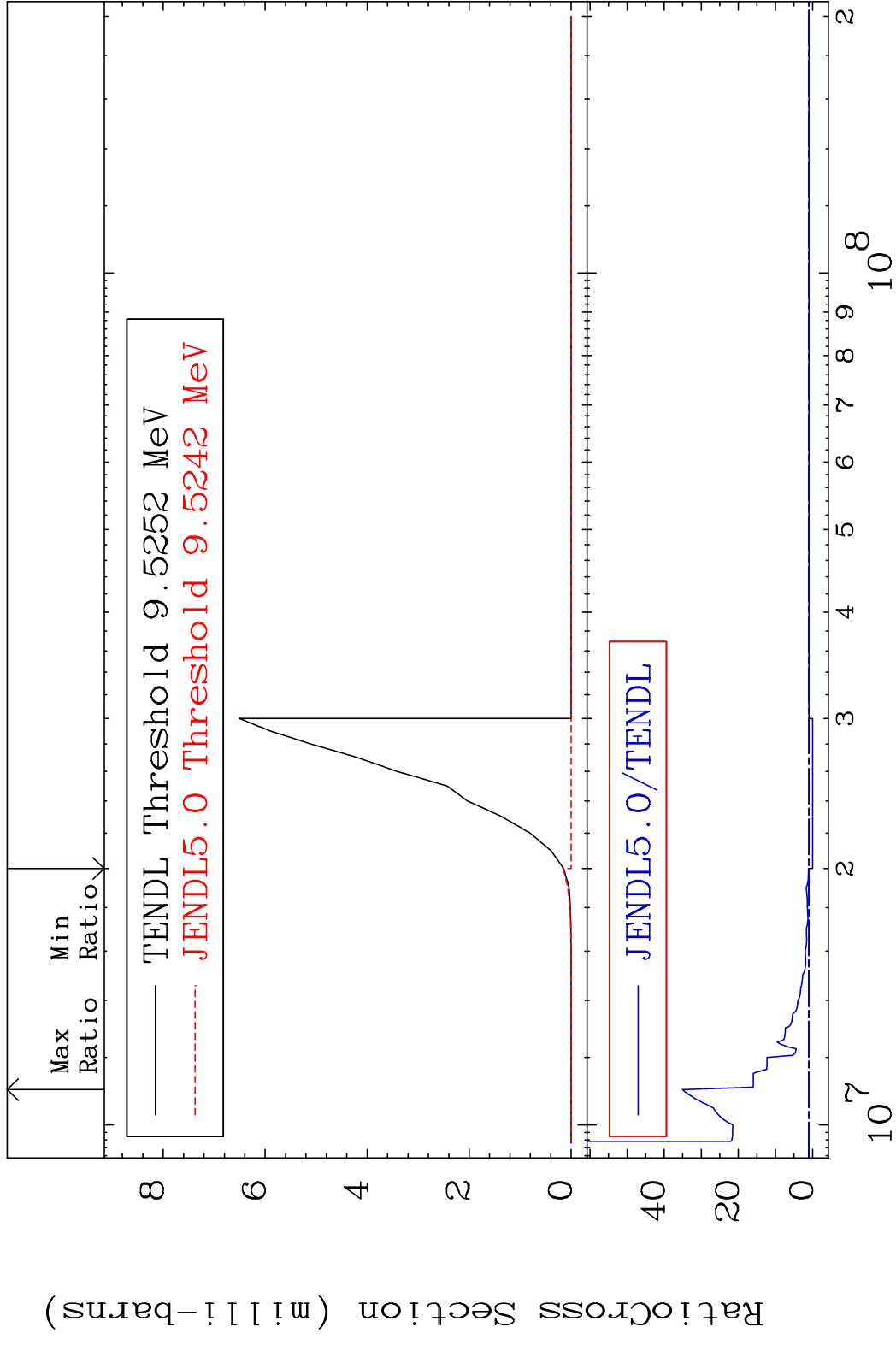


43

Incident Energy (eV)

25-Mn-53

MAT 2519 (n, He-3) 25-Mn-53  
 Cross Section -100.0 To 3410. %



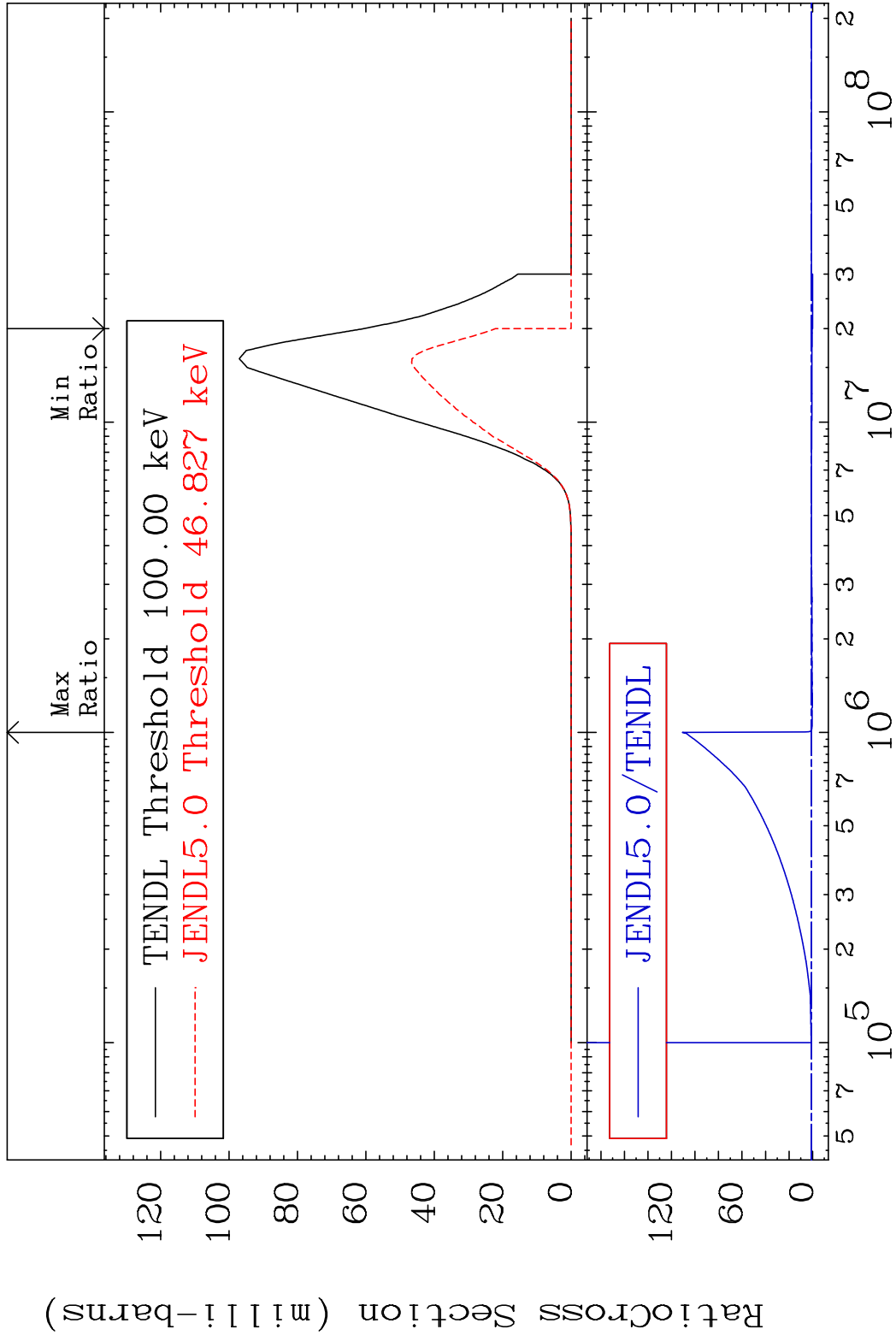
44 25-Mn-53

MAT 2519

(n,  $\alpha$ )

25-Mn-53

Cross Section -100.0 To 9999. %

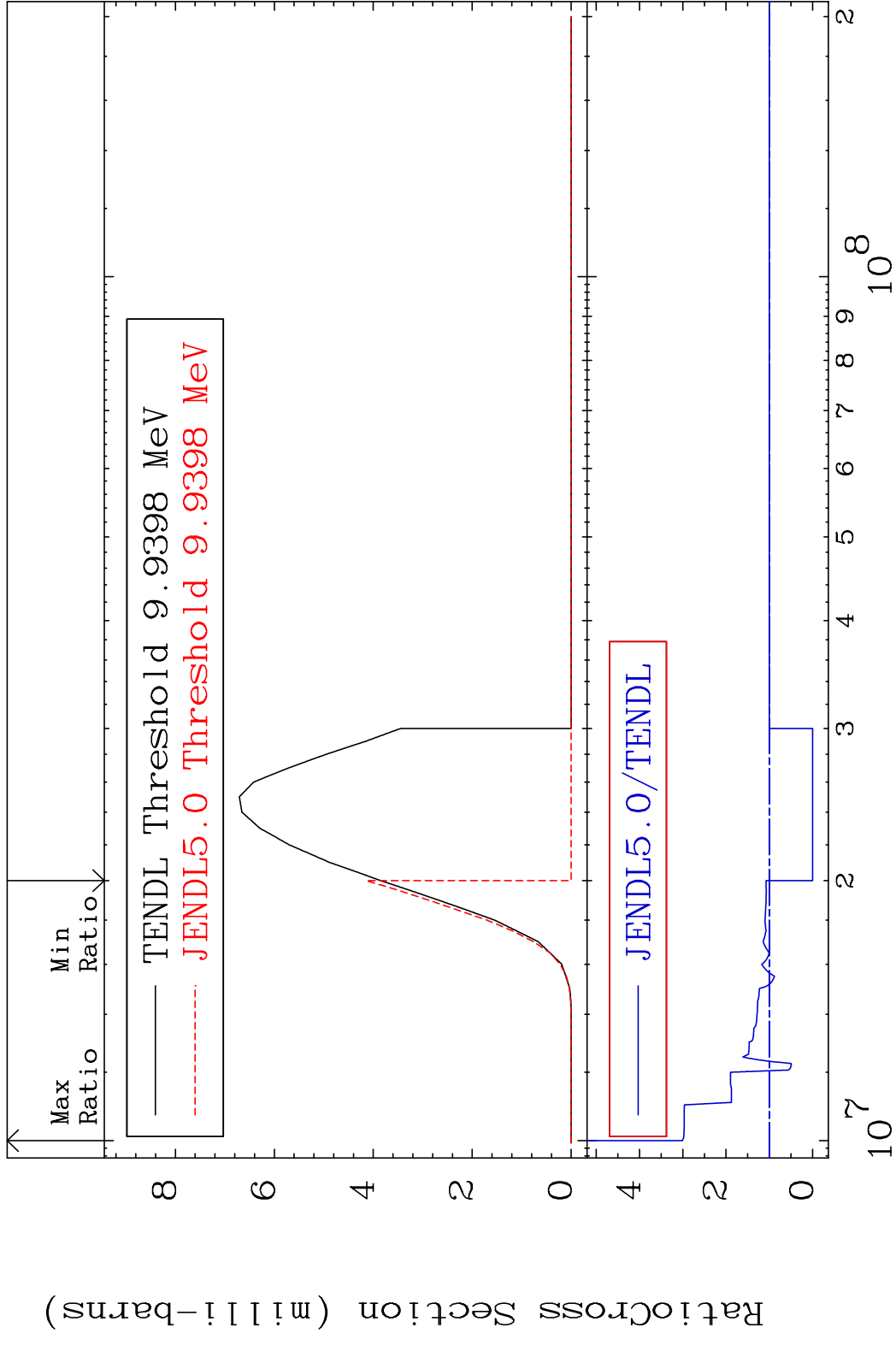


45

Incident Energy (eV)

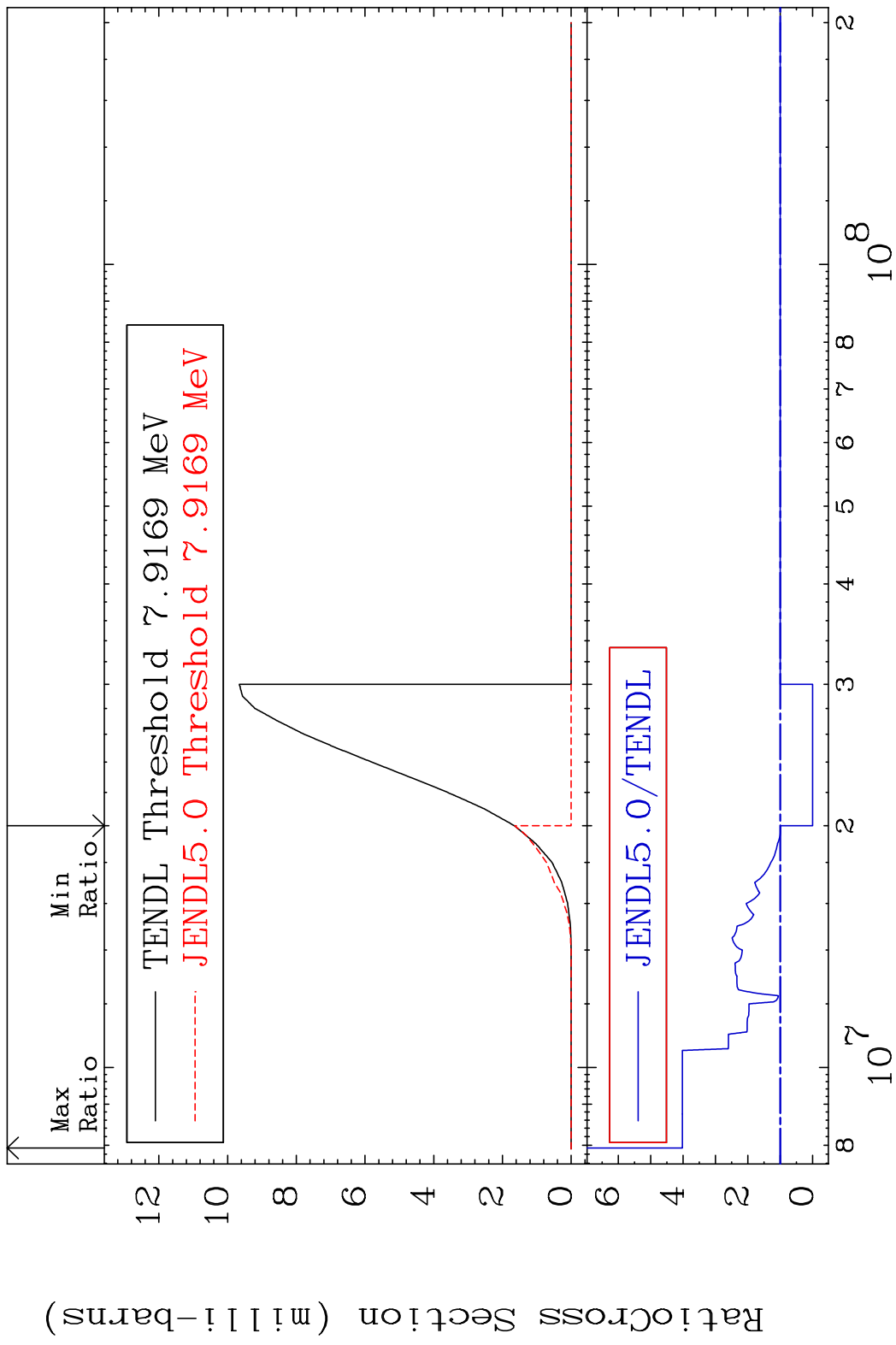
25-Mn-53

MAT 2519 (n,2p) 25-Mn-53  
 Cross Section -100.0 To 201.0 %

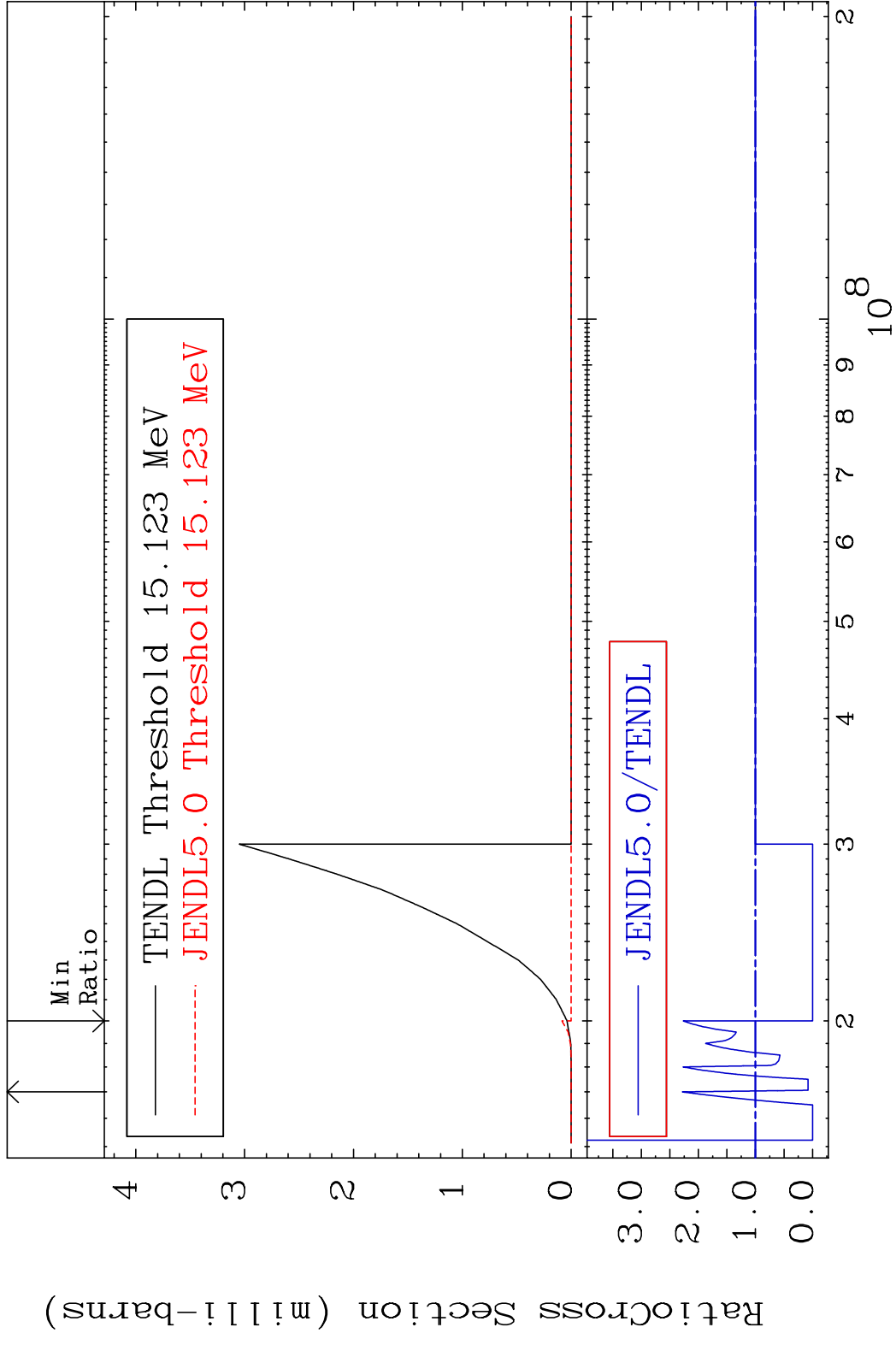


46 25-Mn-53

MAT 2519 (n,p)  $\alpha$  25-Mn-53  
 Cross Section -100.0 To 302.3 %



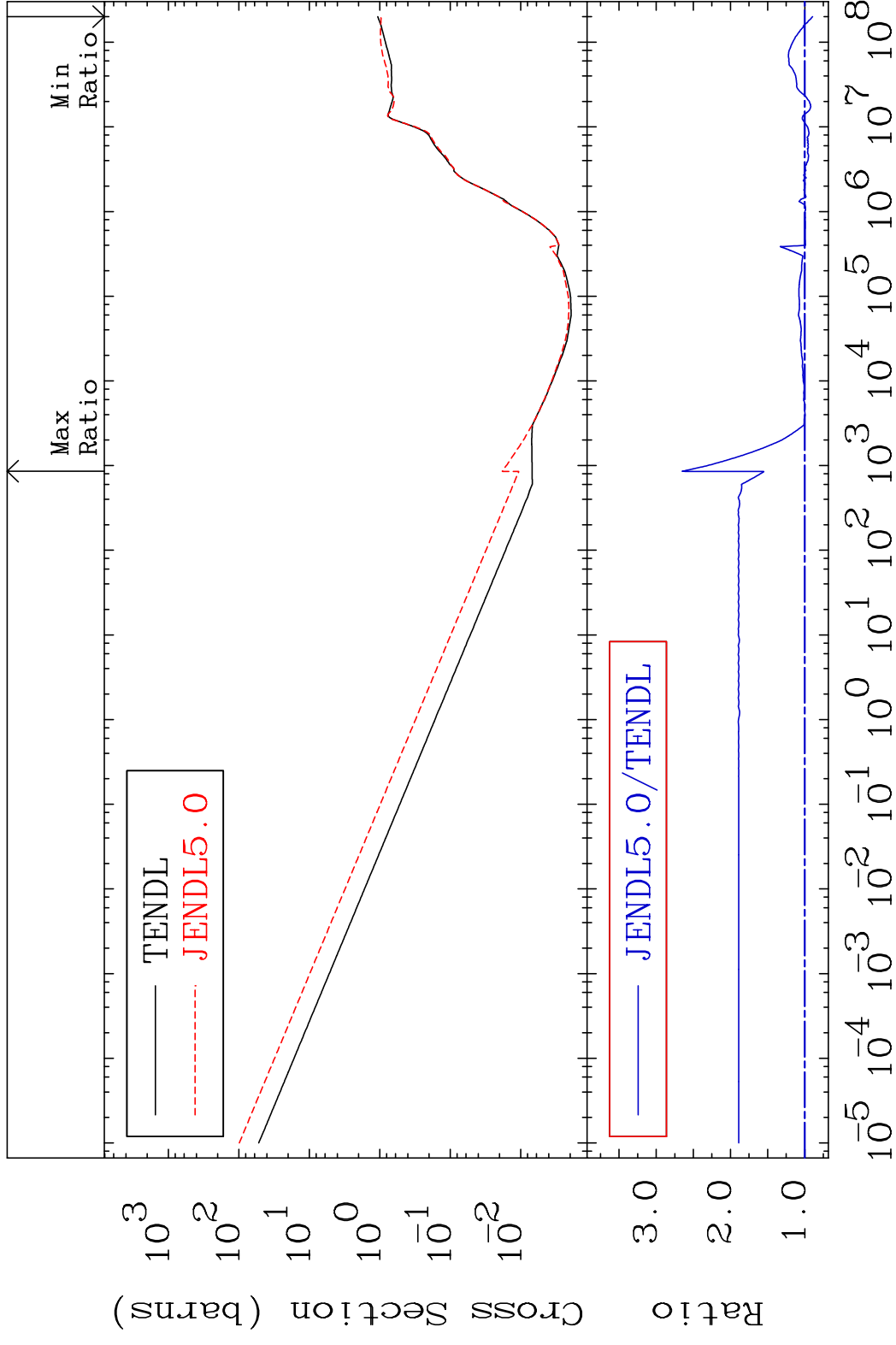
MAT 2519 (n,p) d 25-Mn-53  
 Cross Section -100.0 To 128.1 %



MAT 2519

Hydrogen Production  
Cross Section

25-Mn-53  
-10.52 To 164.8 %

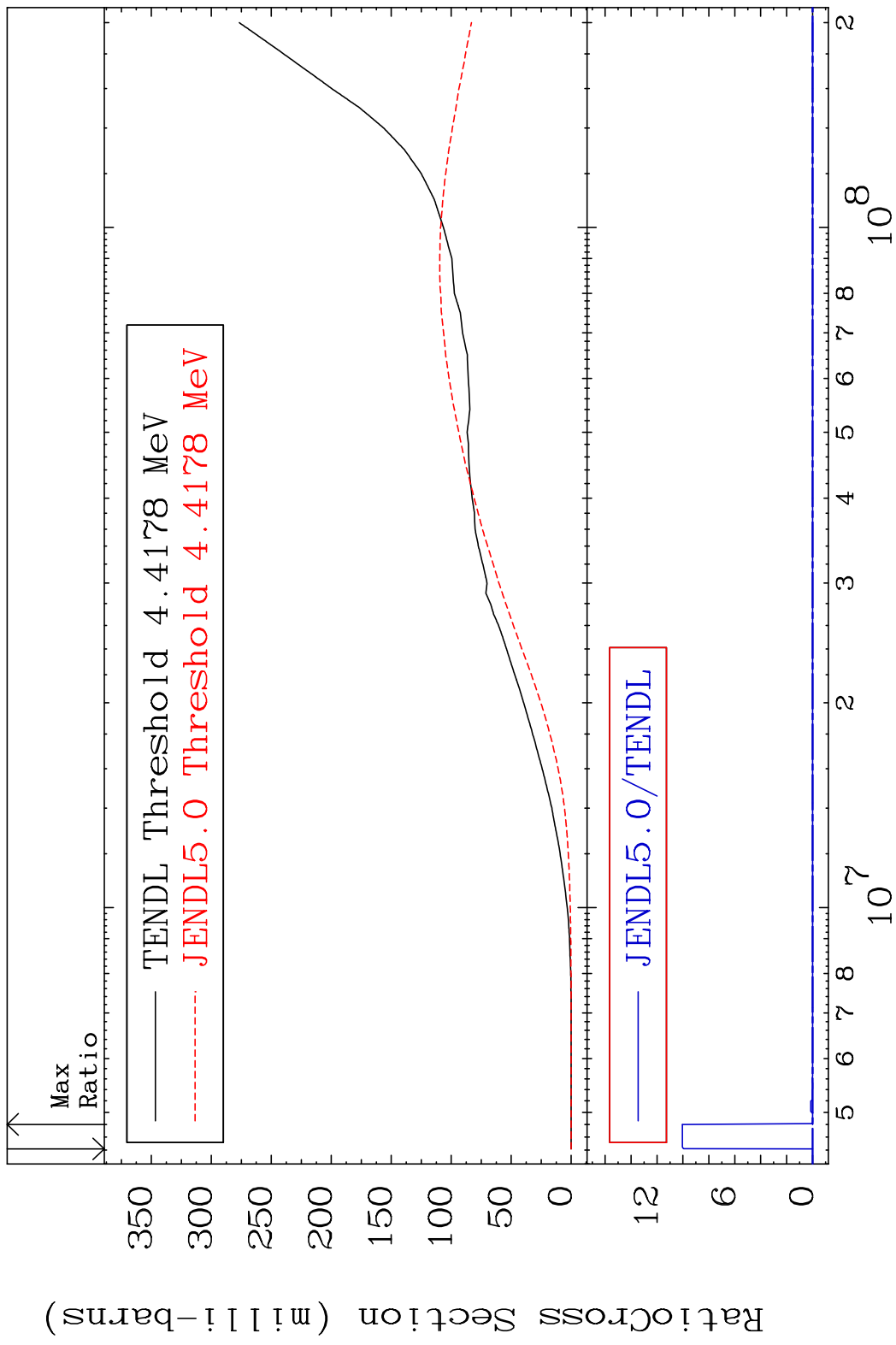


49

Incident Energy (eV)

25-Mn-53

MAT 2519 Deuterium Production 25-Mn-53  
 Cross Section -100.0 To 9999. %

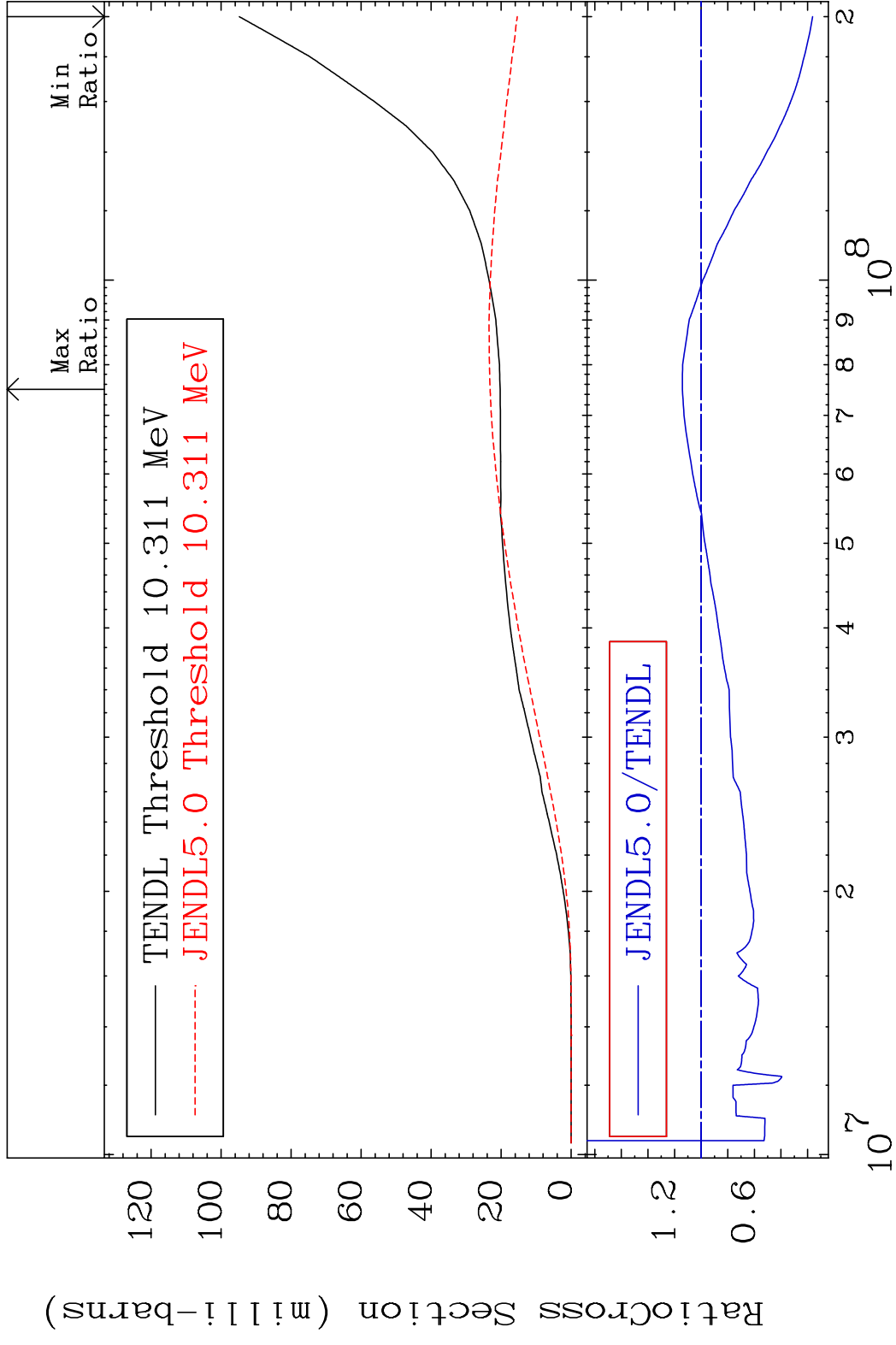


50 Incident Energy (eV) 25-Mn-53

MAT 2519

Tritium Production  
Cross Section

25-Mn-53  
-83.75 To 14.12 %



51

Incident Energy (eV)

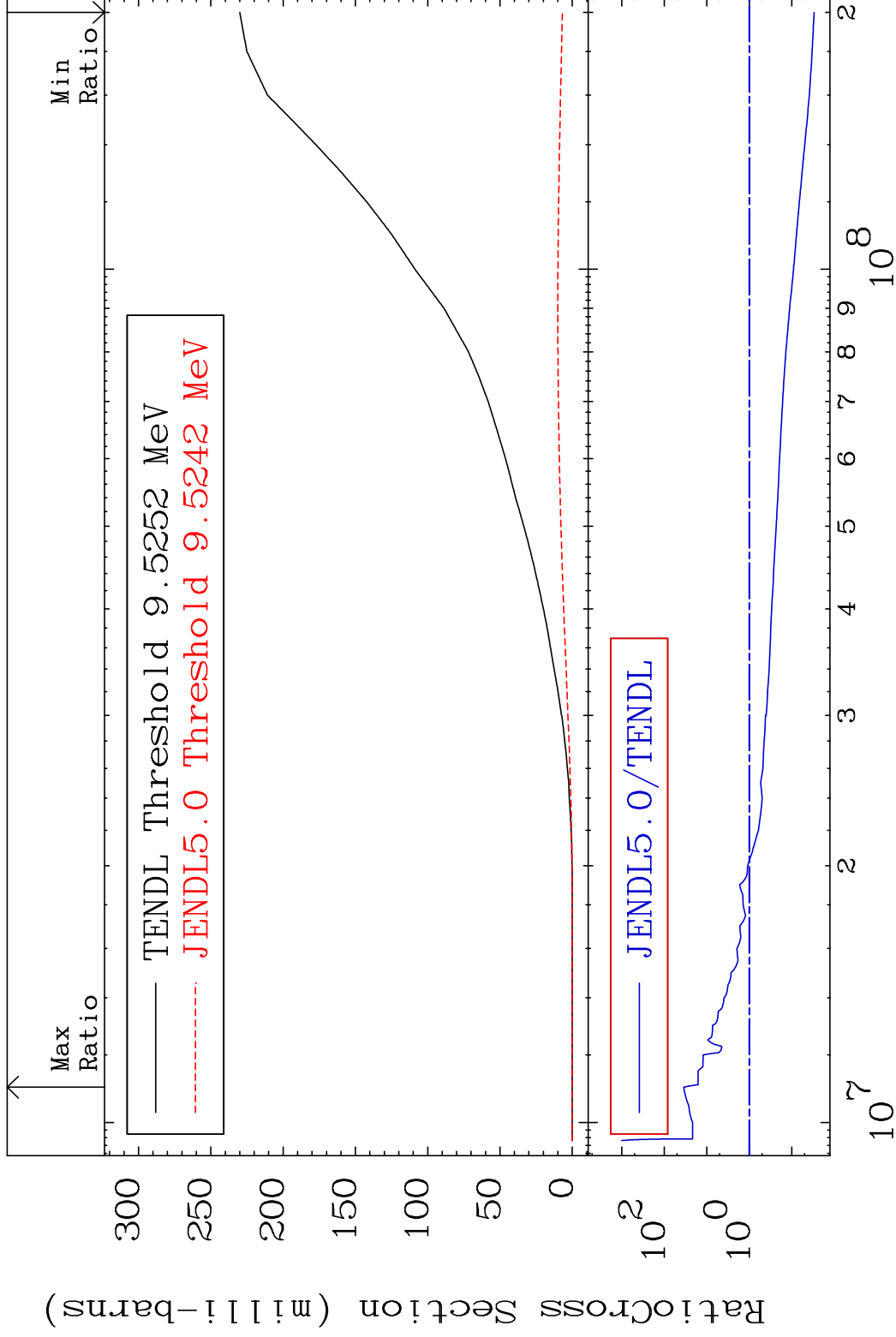
25-Mn-53

MAT 2519

He-3 Production

25-Mn-53

Cross Section -97.01 To 3410. %



52

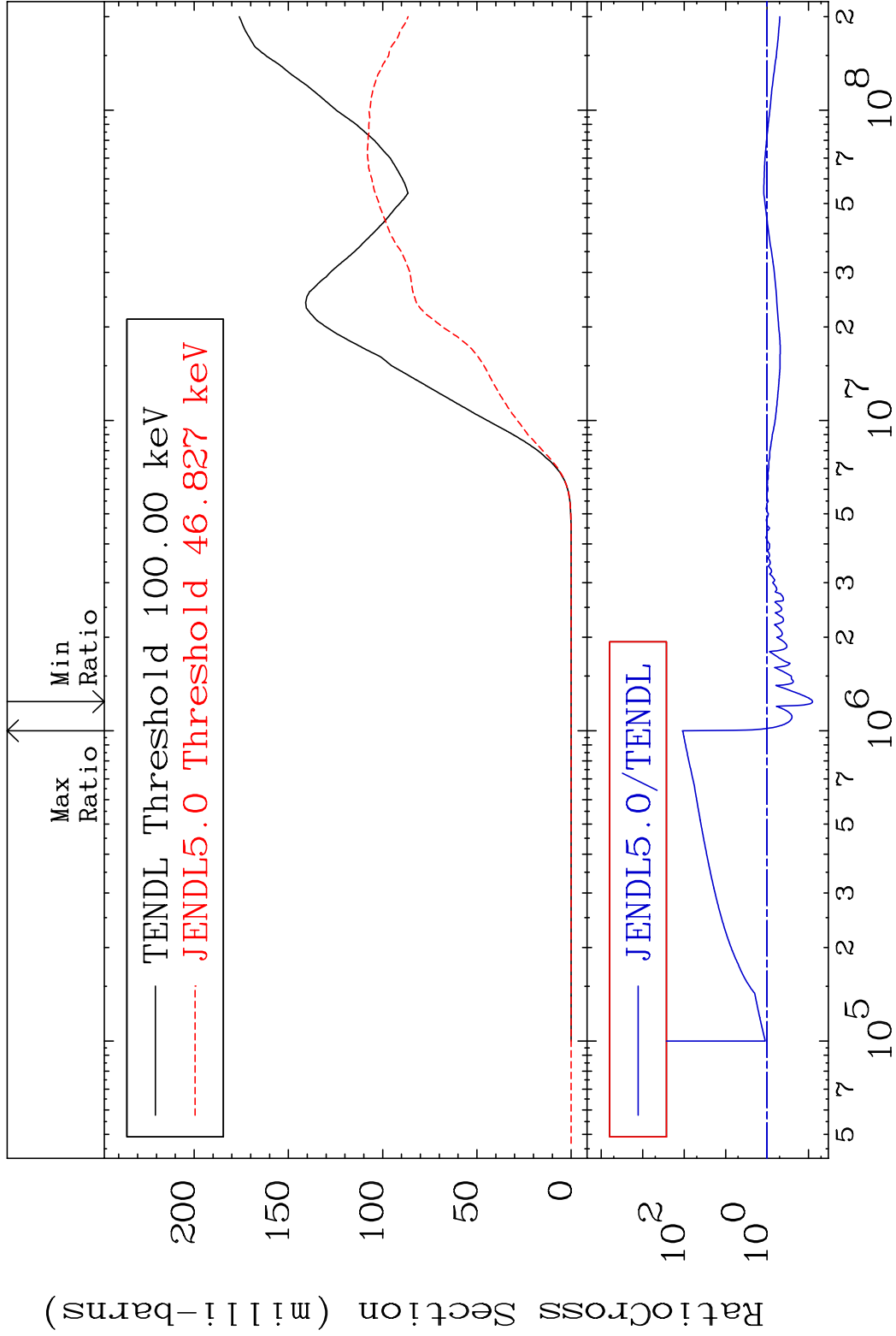
25-Mn-53

MAT 2519

He-4 Production

25-Mn-53

Cross Section -92.00 To 9999. %

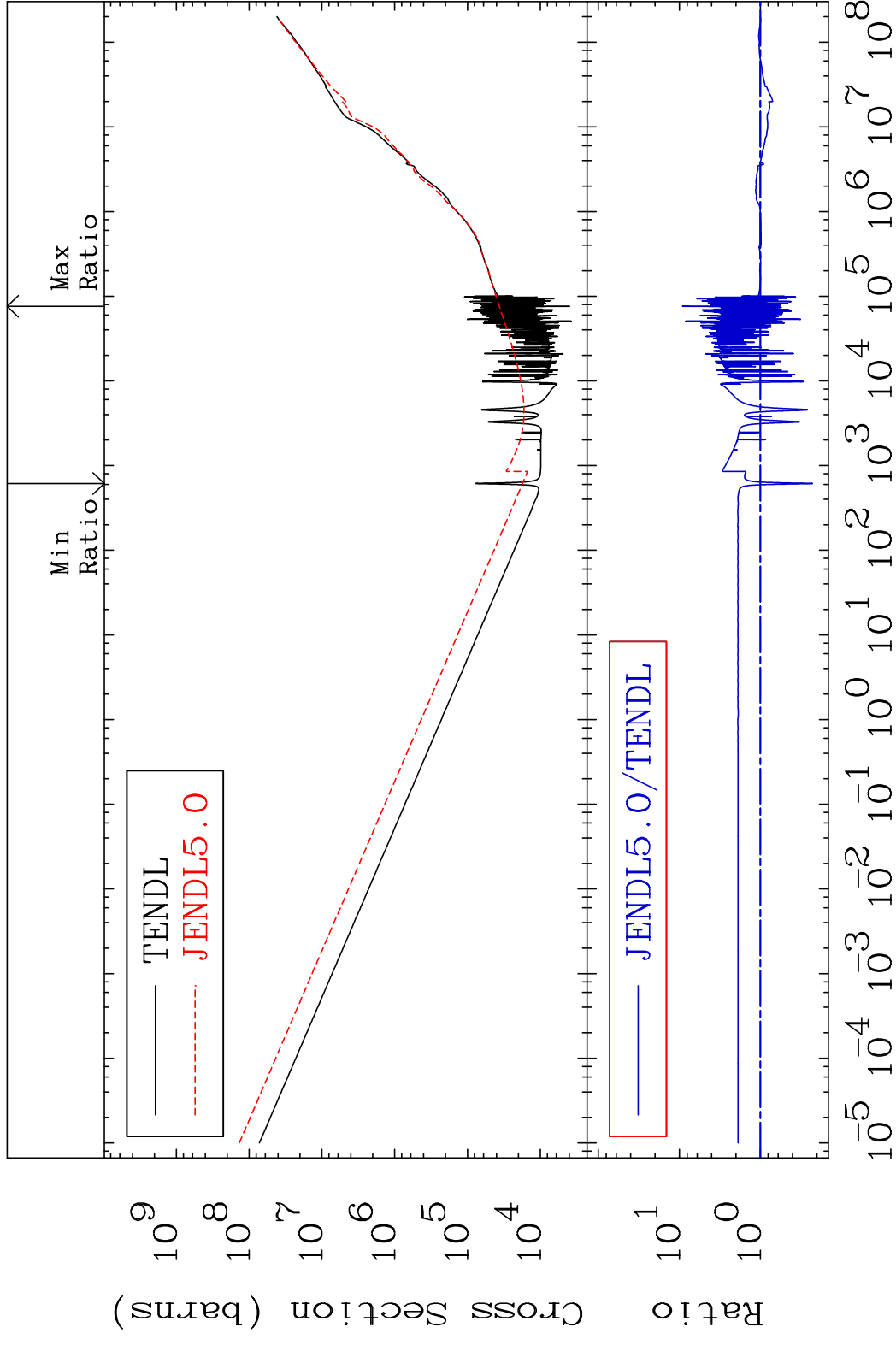


53

Incident Energy (eV)

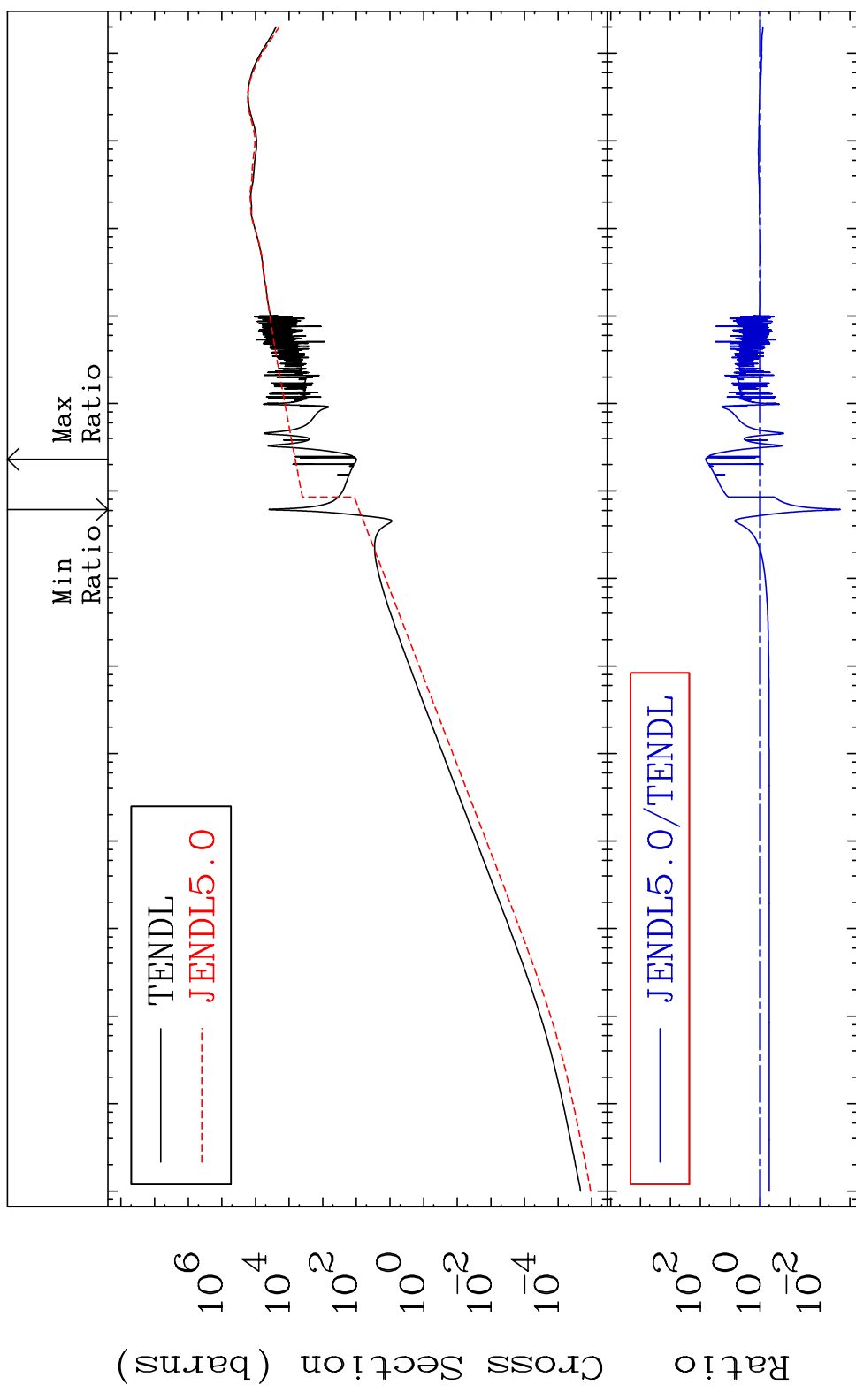
25-Mn-53

MAT 2519 Kerma total (eV-barns) 25-Mn-53  
 Cross Section -77.36 To 817.3 %



MAT 2519

Kerma elastic Cross Section -99.79 To 6495. %  
25-Mn-53

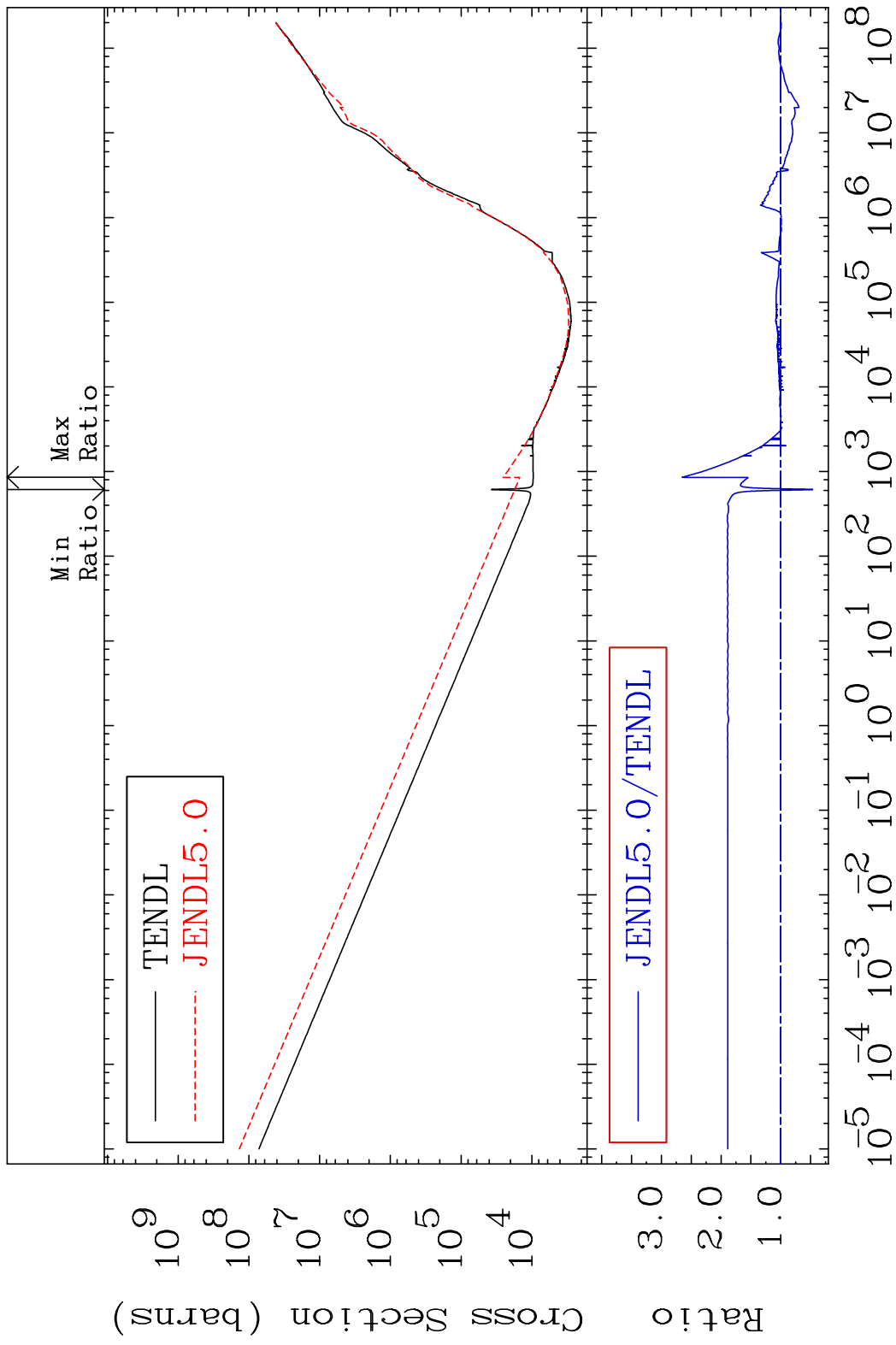


55

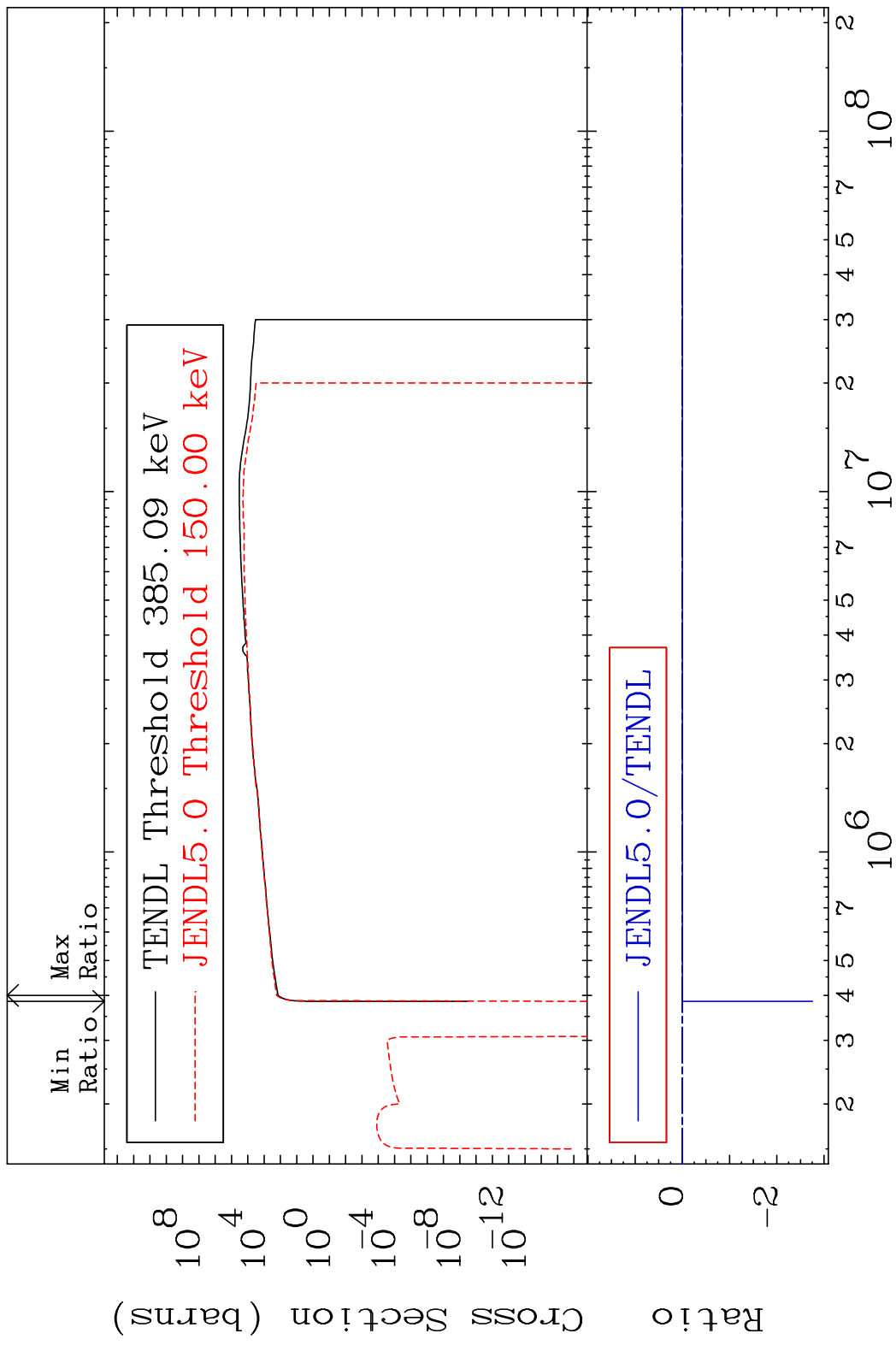
Incident Energy (eV)

25-Mn-53

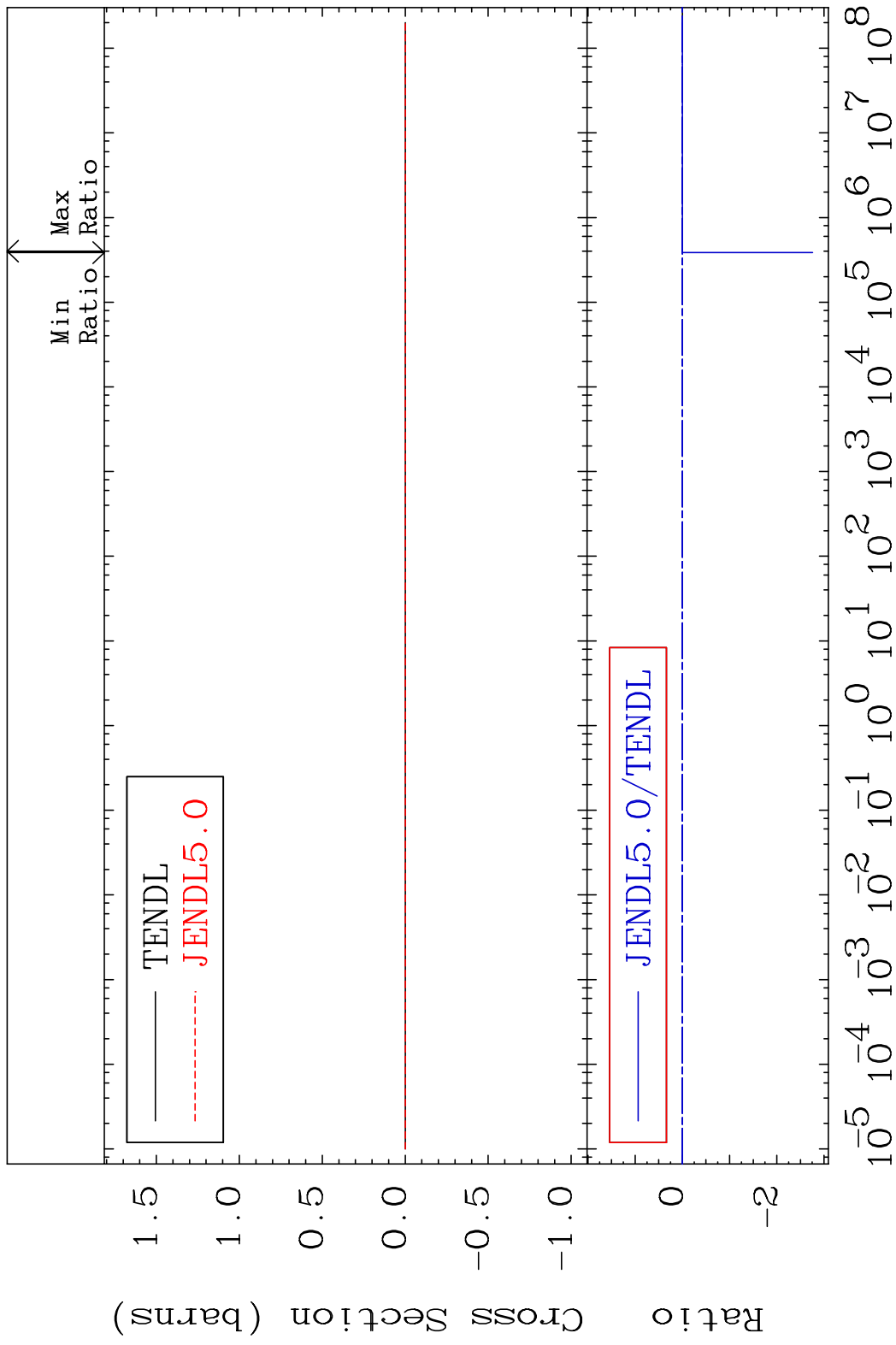
MAT 2519 Kerma non-elastic (all but mt2) 25-Mn-53  
 Cross Section -53.25 To 164.8 %



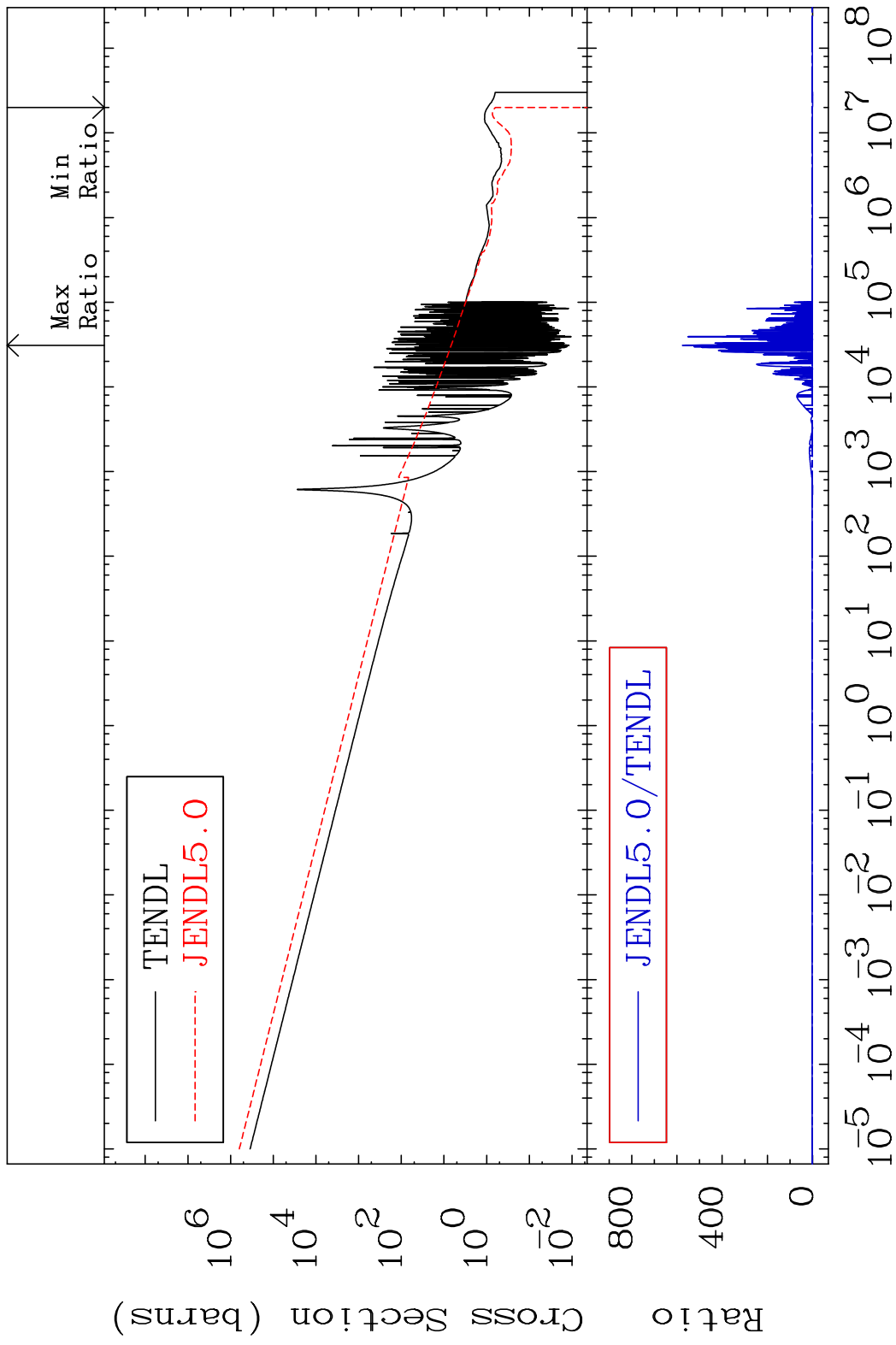
MAT 2519 Kerma inelastic (mt51-91) 25-Mn-53  
 Cross Section -9999. To 21.98 %



MAT 2519 Kerma fission (mt18 or mt19-20-21-38) 25-Mn-53  
 Cross Section -9999. To 21.98 %

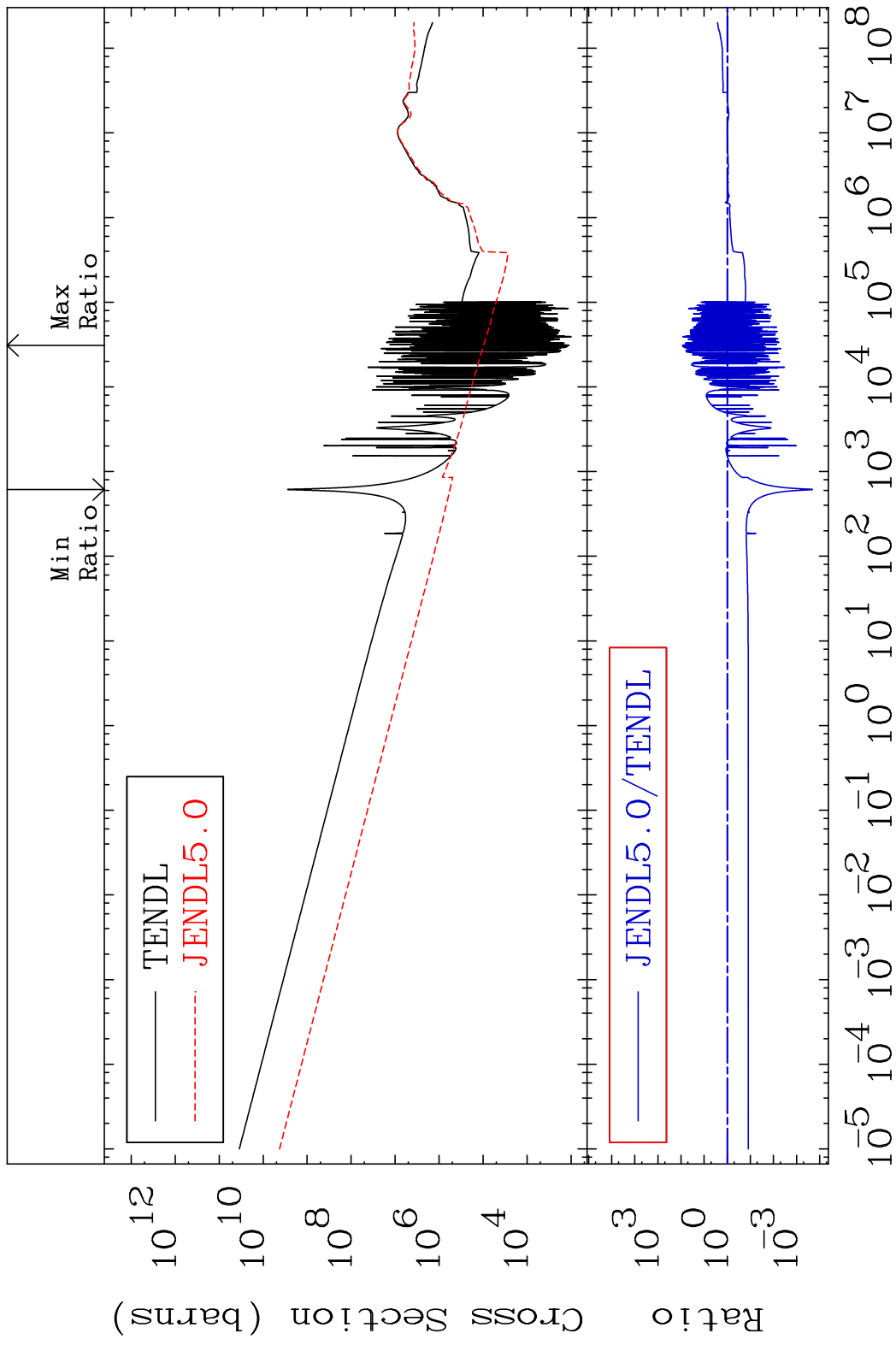


MAT 2519 Kerma capture (mt102) 25-Mn-53  
 Cross Section -100.0 To 9999. %



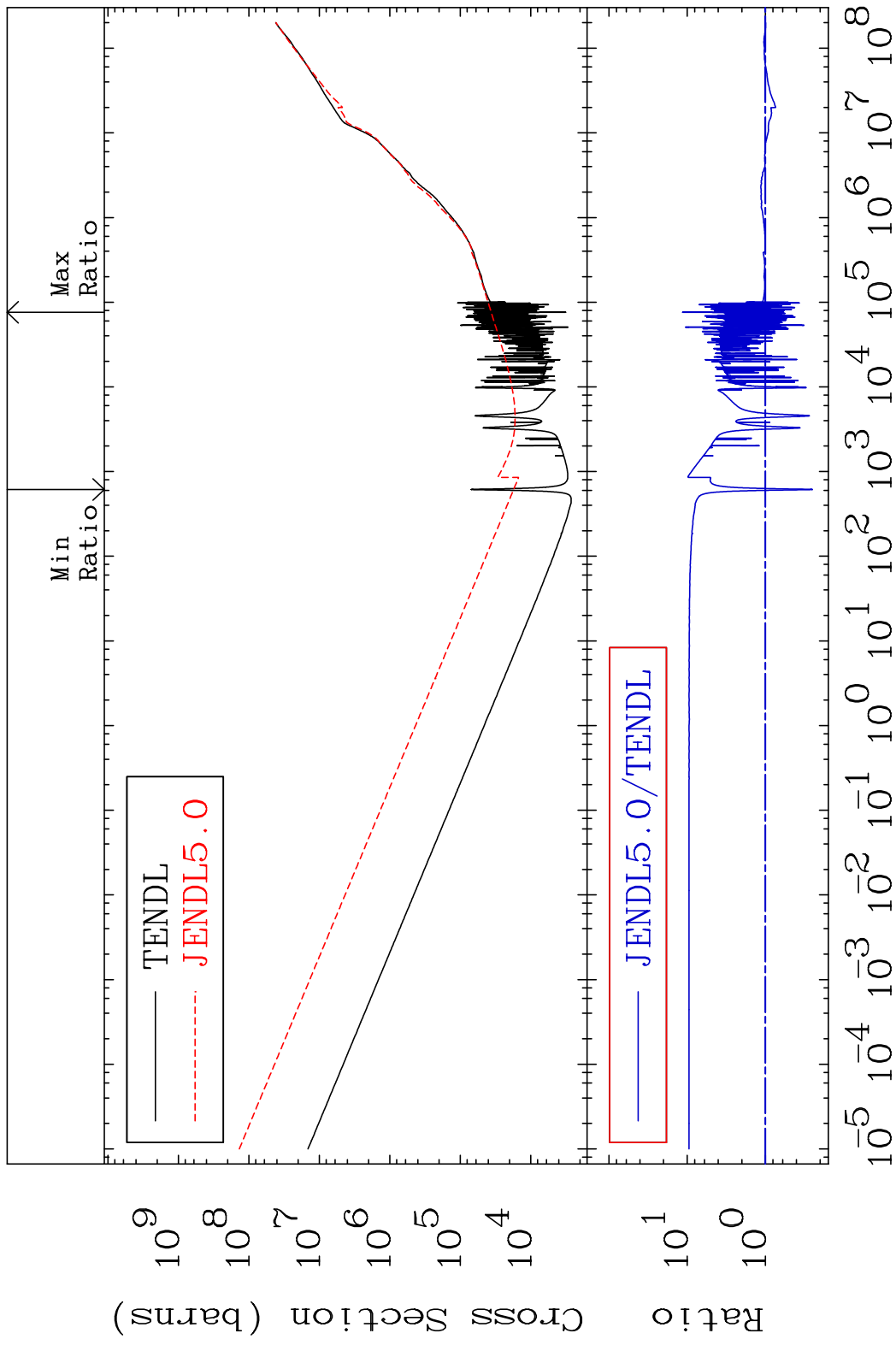
59 Incident Energy (eV) 25-Mn-53

MAT 2519 Total photon (eV-barns) 25-Mn-53  
Cross Section -99.98 To 8636. %

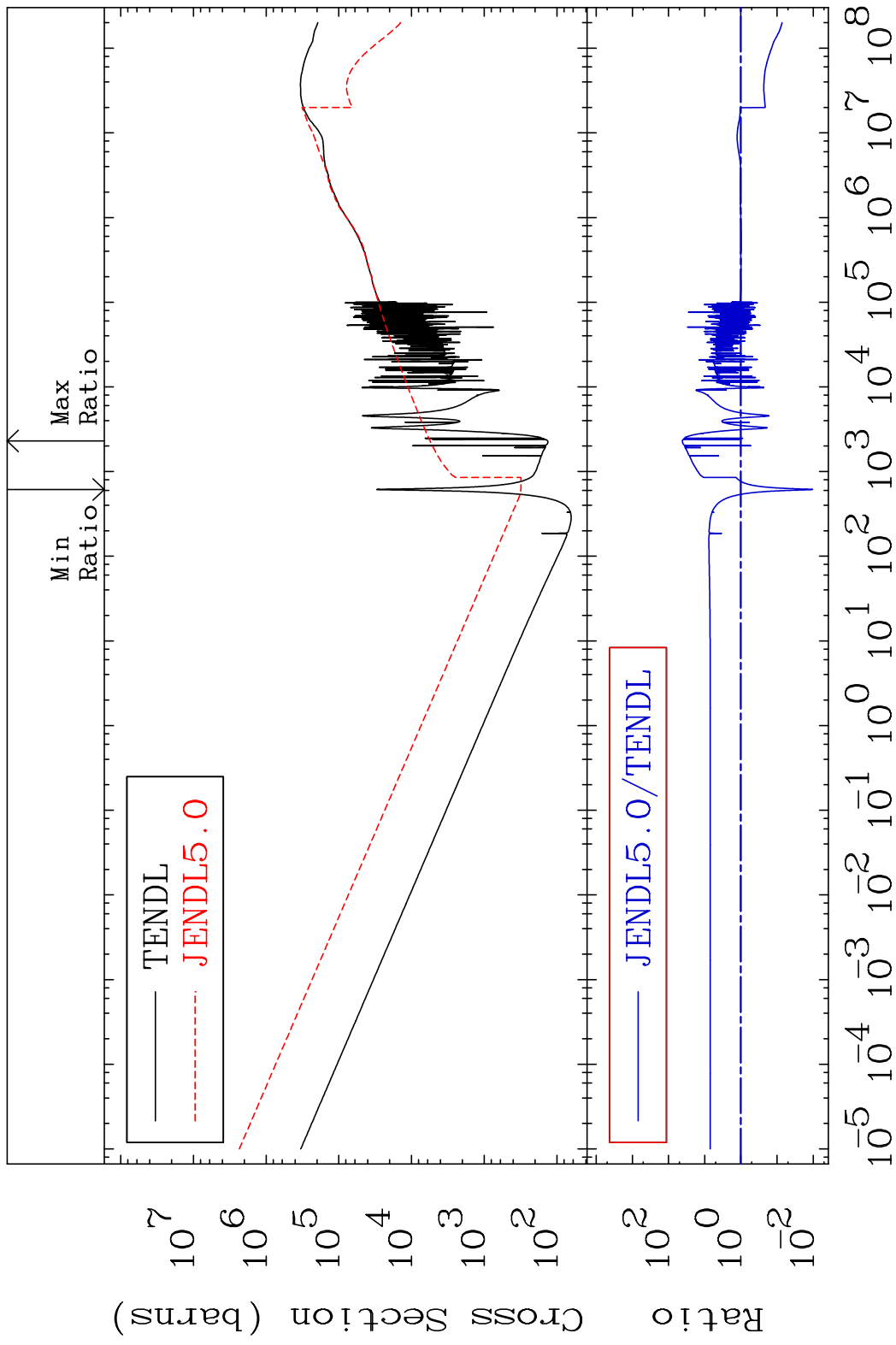


60 Incident Energy (eV) 25-Mn-53

MAT 2519 Total kinematic kerma (high limit) 25-Mn-53  
Cross Section -75.08 To 1051. %



MAT 2519      Dpa total (eV-barns)      25-Mn-53  
 Cross Section      -98.96 To 4046. %



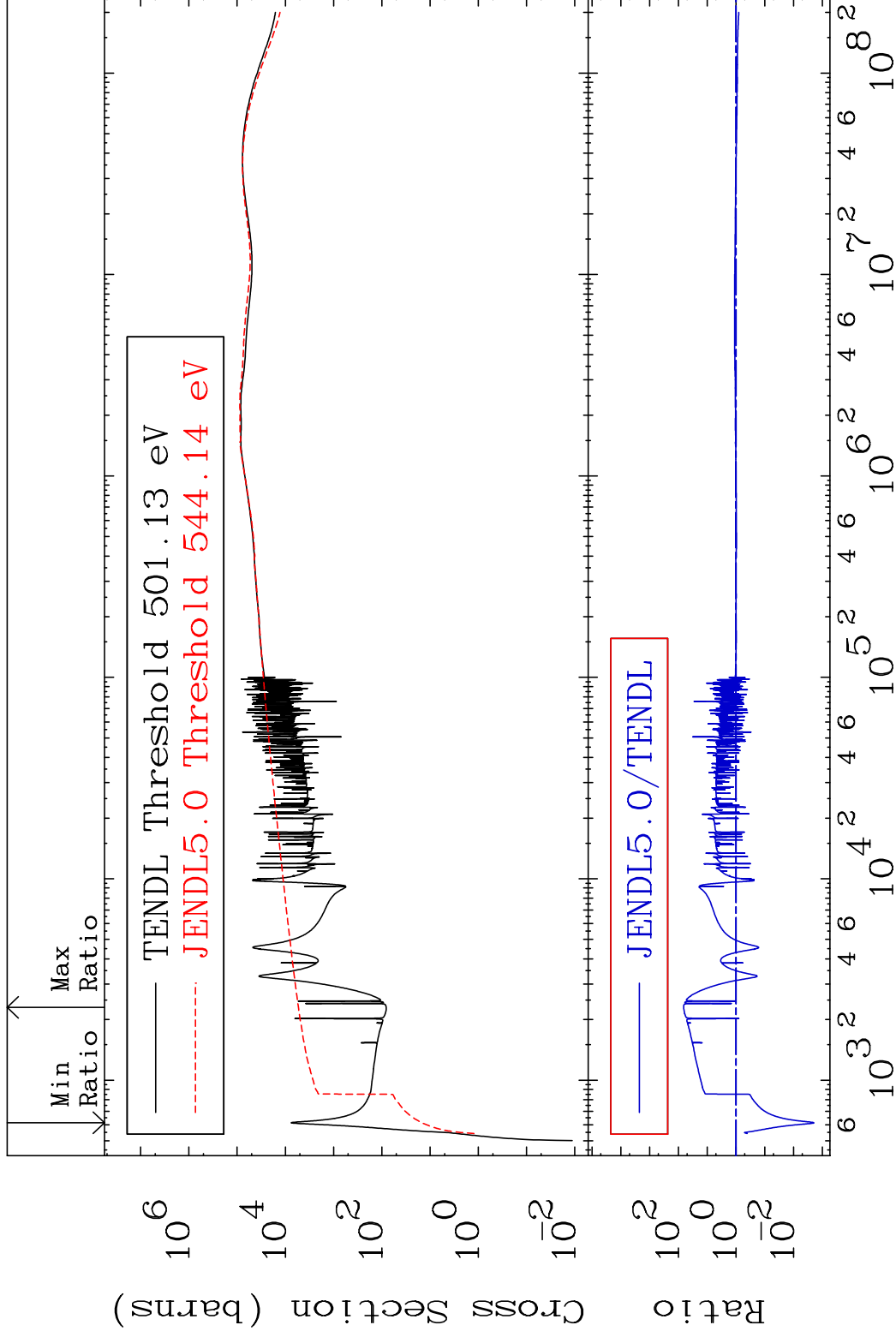
62      Incident Energy (eV)      25-Mn-53

MAT 2519

Dpa elastic (mt2)

25-Mn-53

Cross Section -99.81 To 6494. %

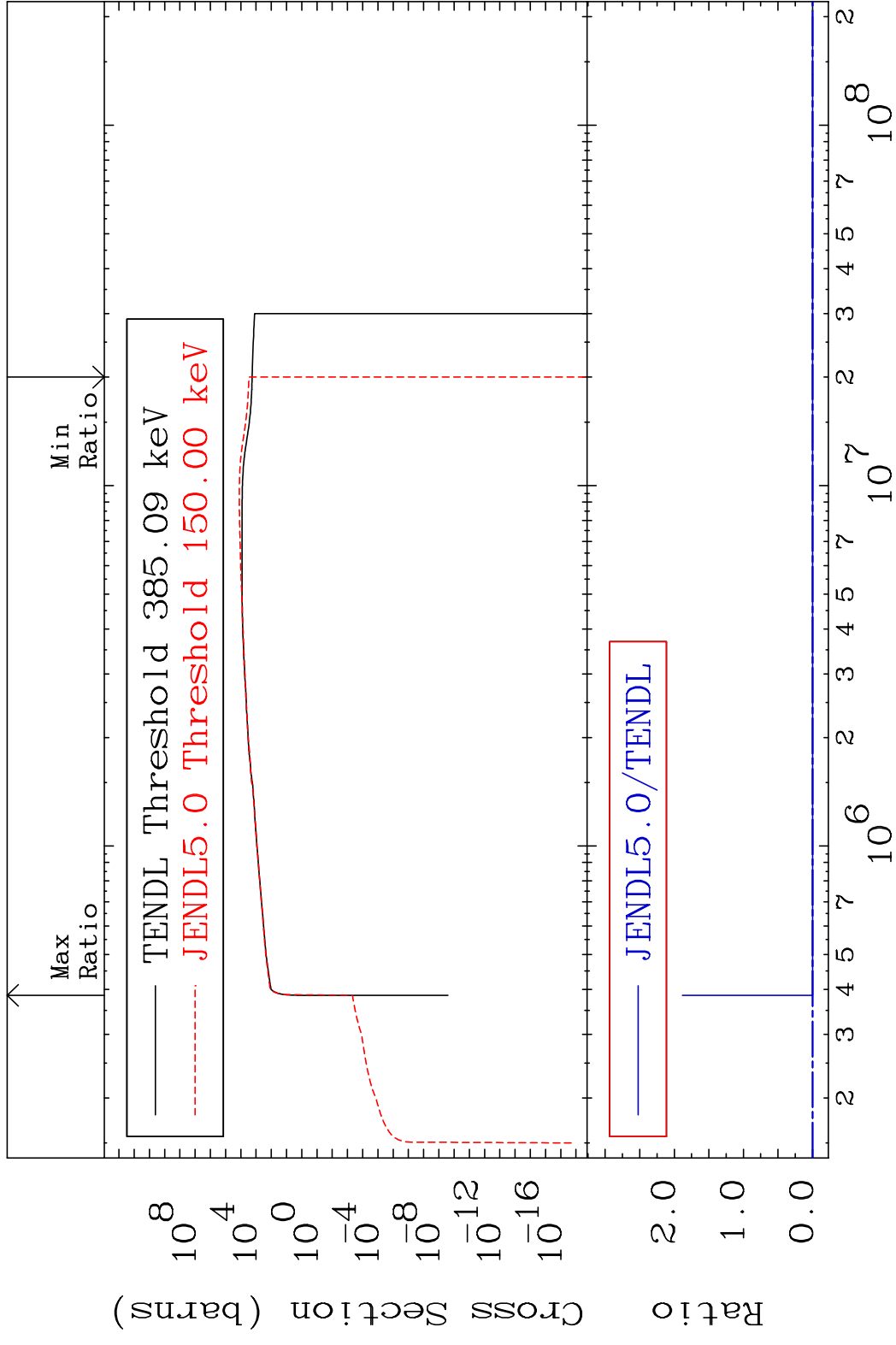


63

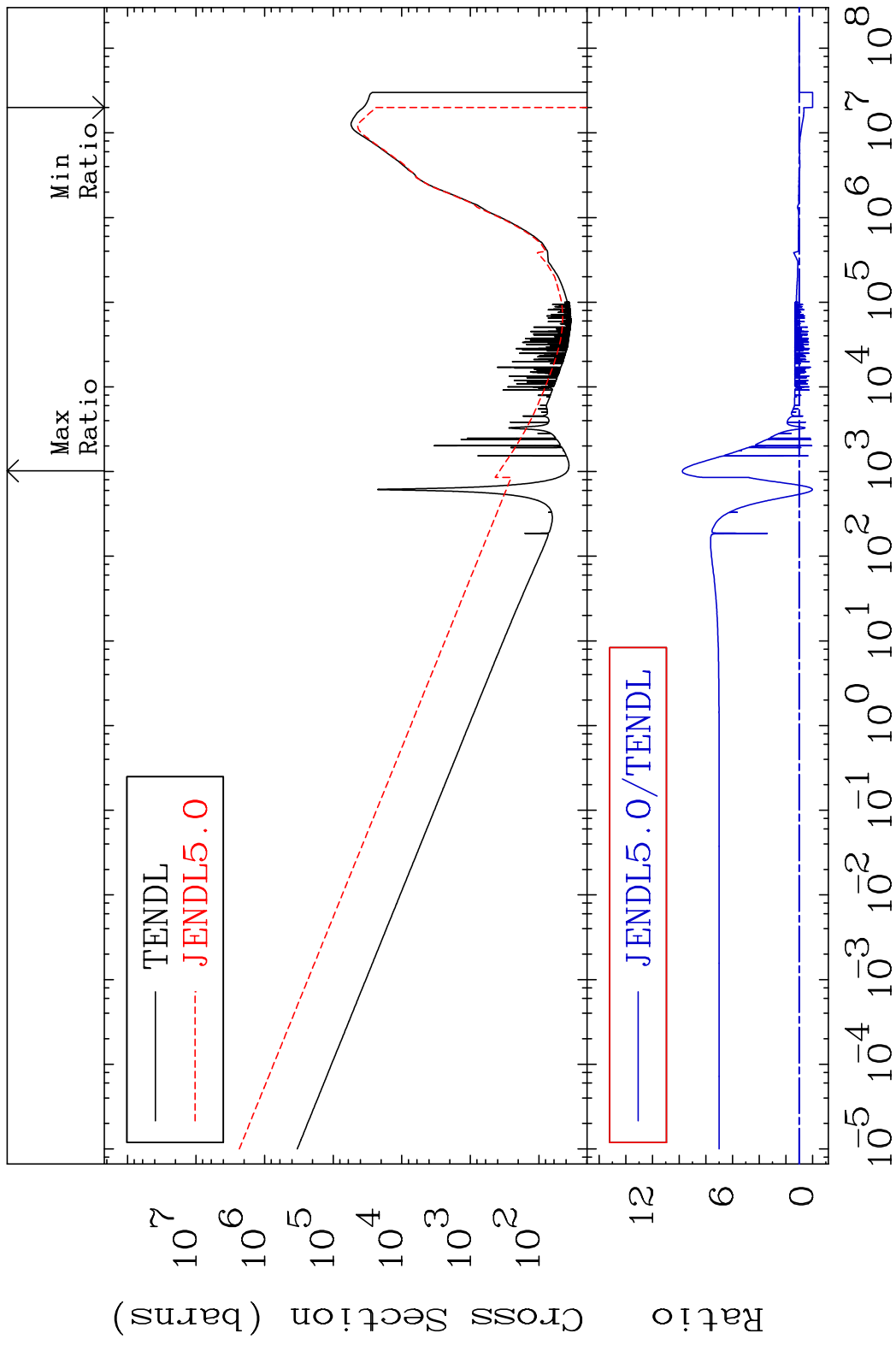
Incident Energy (eV)

25-Mn-53

MAT 2519 Dpa inelastic (mt51-91) 25-Mn-53  
 Cross Section -100.0 To 9999. %

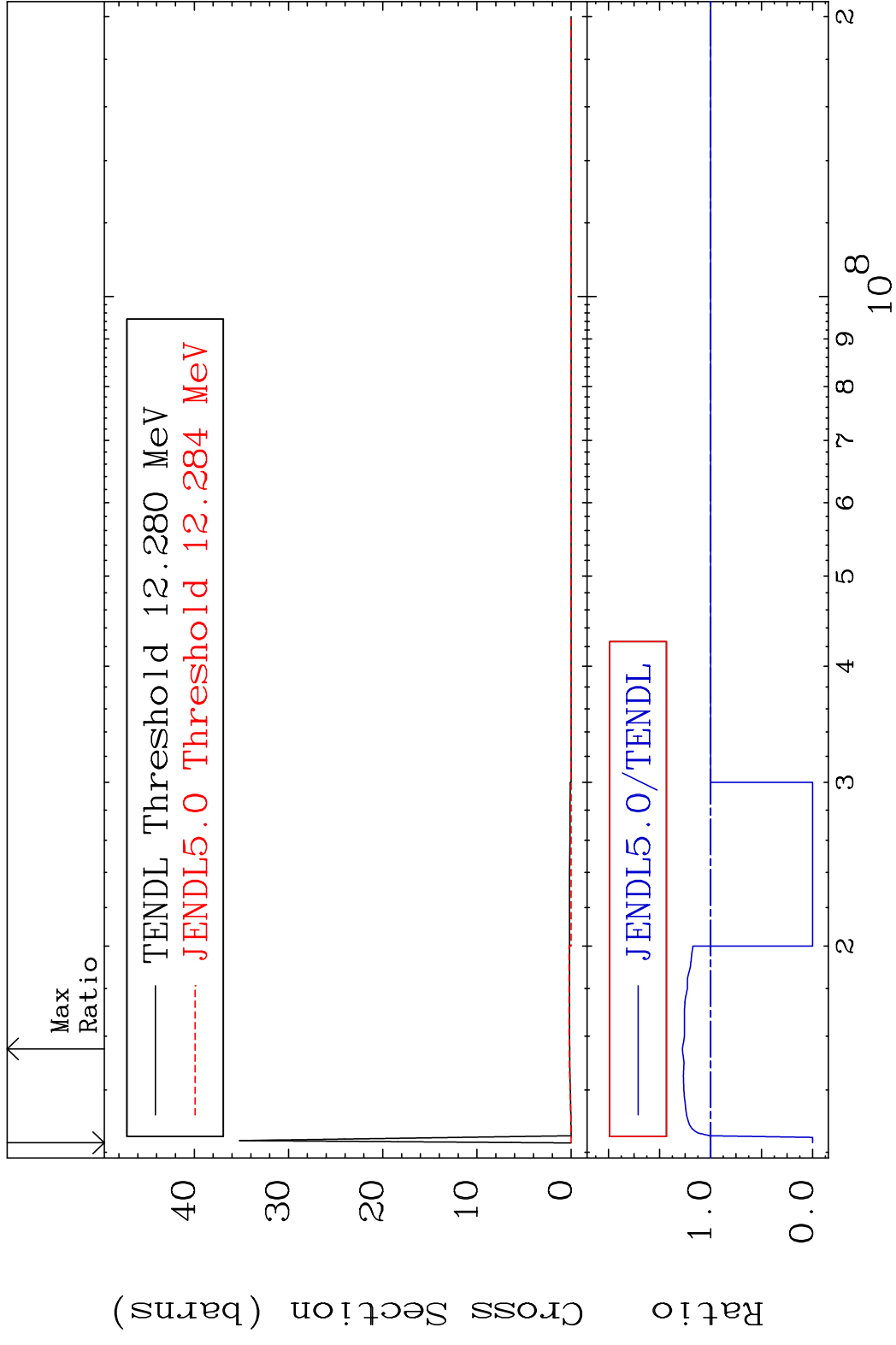


MAT 2519 Dpa disappearance (mt102 -120) 25-Mn-53  
 Cross Section -100.0 To 876.0 %

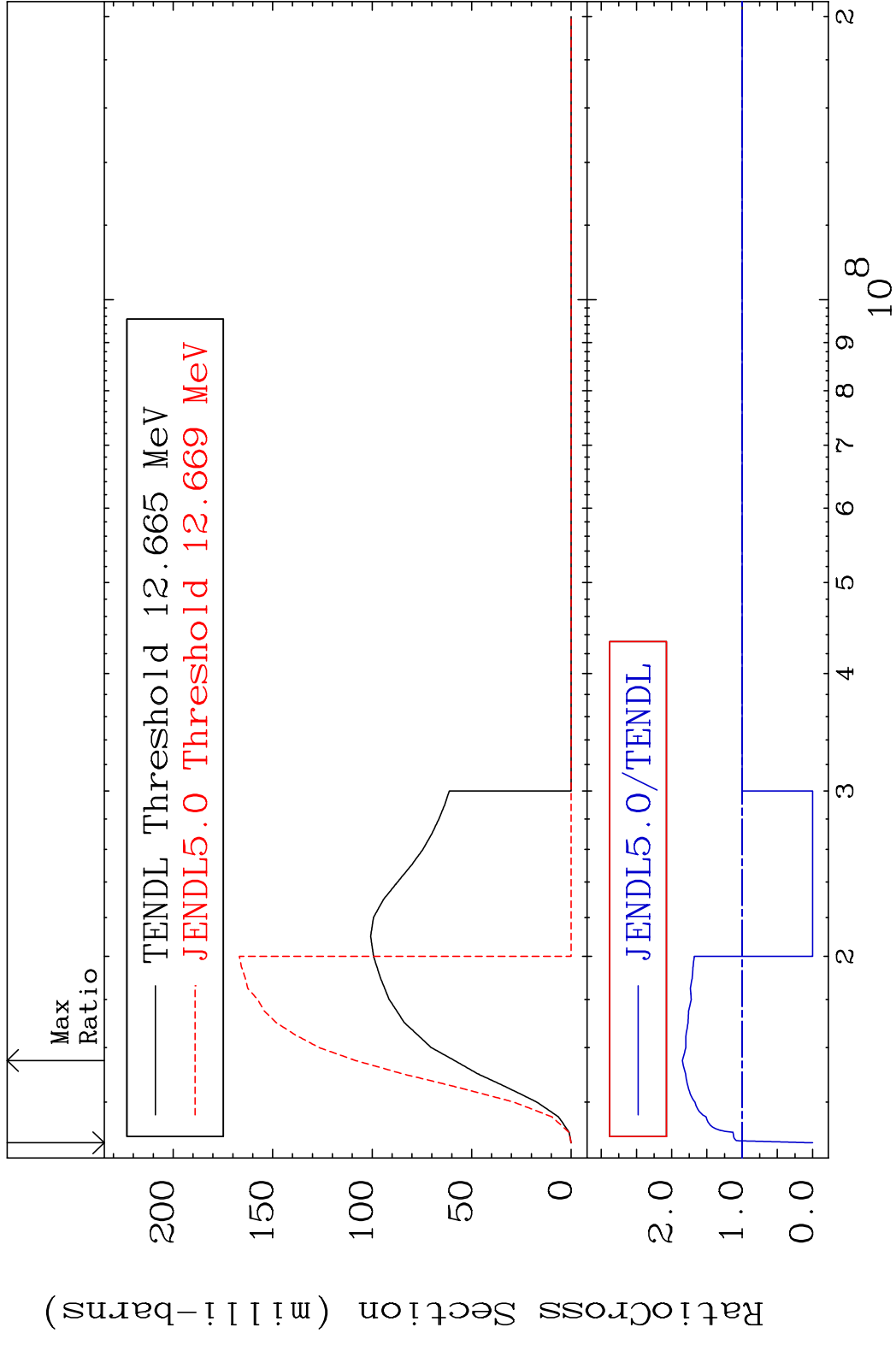


65 Incident Energy (eV) 25-Mn-53

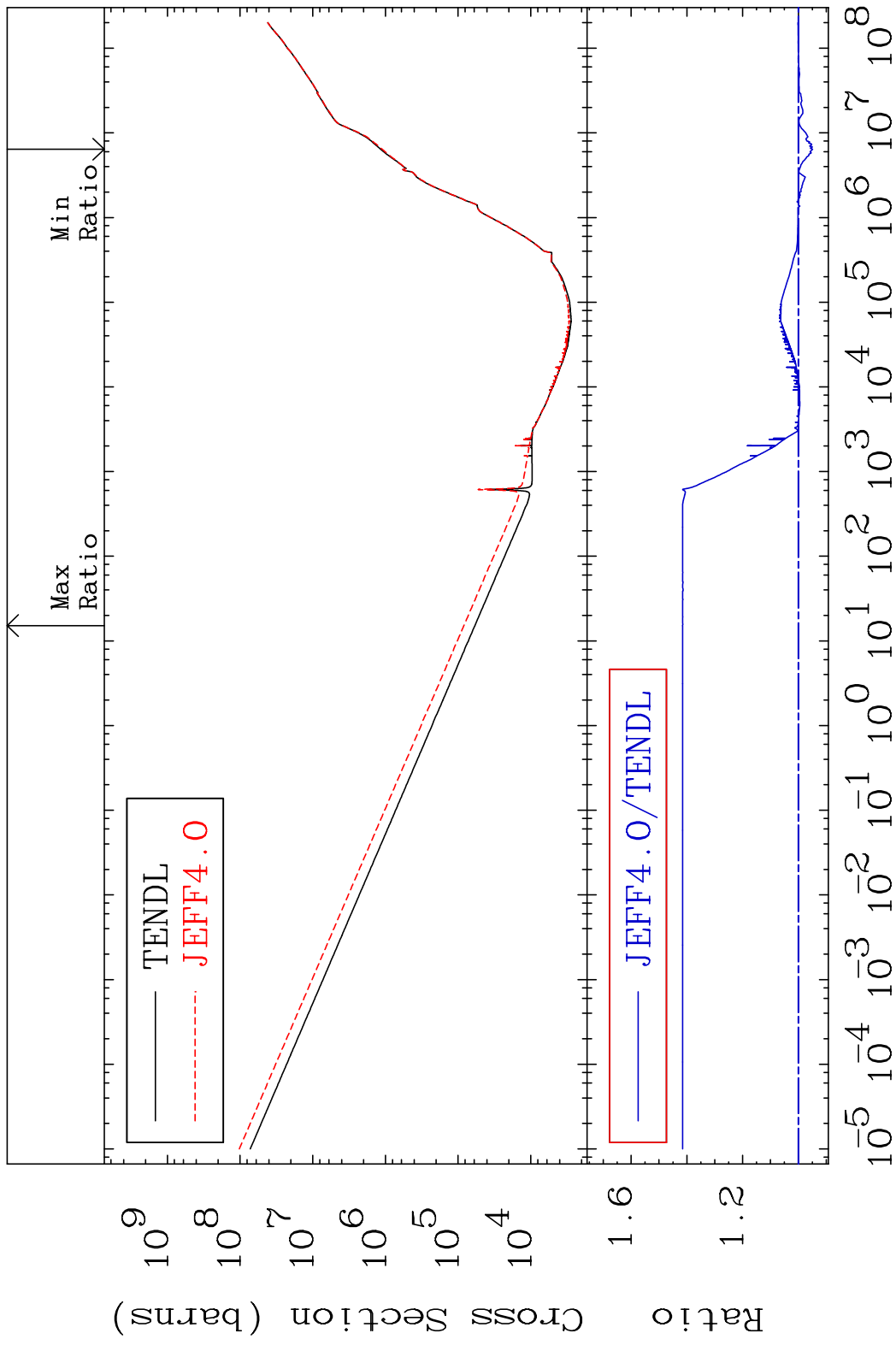
MAT 2519 (n,2n):25-Mn-52g 25-Mn-53  
 Radionuclide Production Cross Section Ratio 27.67 %



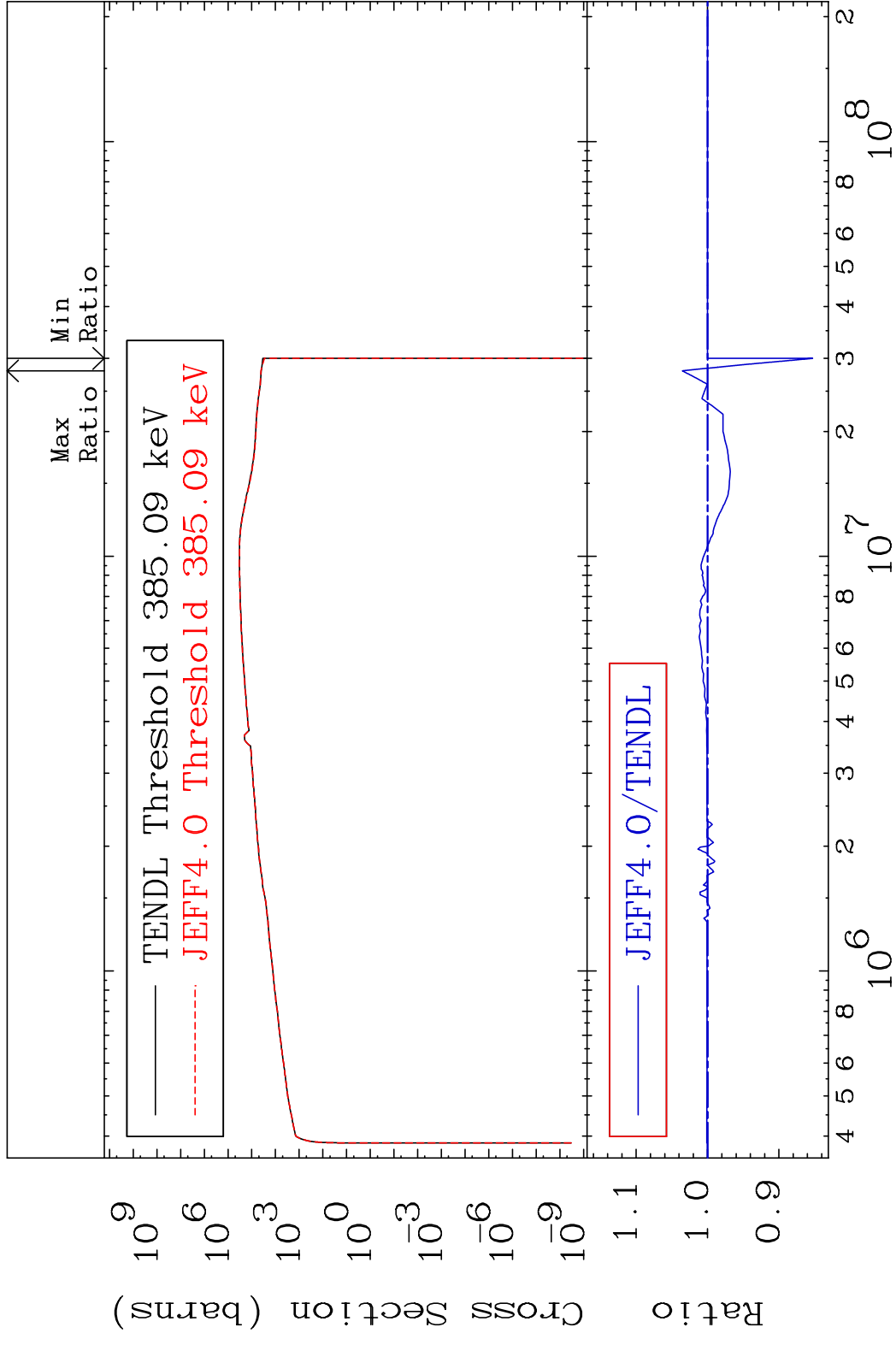
MAT 2519 (n,2n):25-Mn-52m1 25-Mn-53  
 Radionuclide Production Cross Section Ratio 84.83 %



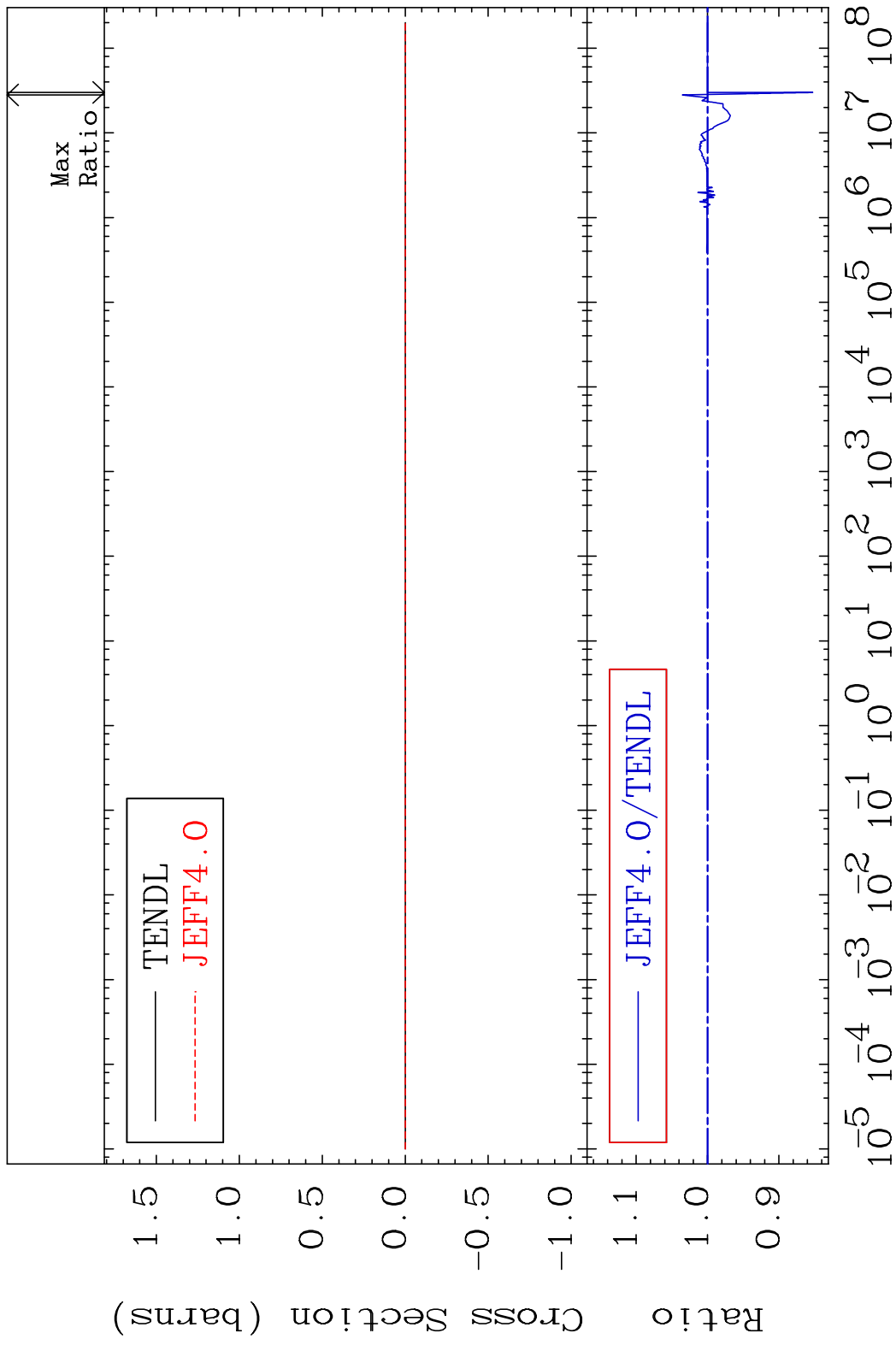
MAT 2519 Kerma non-elastic (all but mt2) 25-Mn-53  
 Cross Section -5.088 To 41.62 %



MAT 2519 Kerma inelastic (mt51-91) 25-Mn-53  
 Cross Section -14.71 To 3.532 %



MAT 2519 Kerma fission (mt18 or mt19-20-21-38) 25-Mn-53  
 Cross Section -14.71 To 3.532 %



70

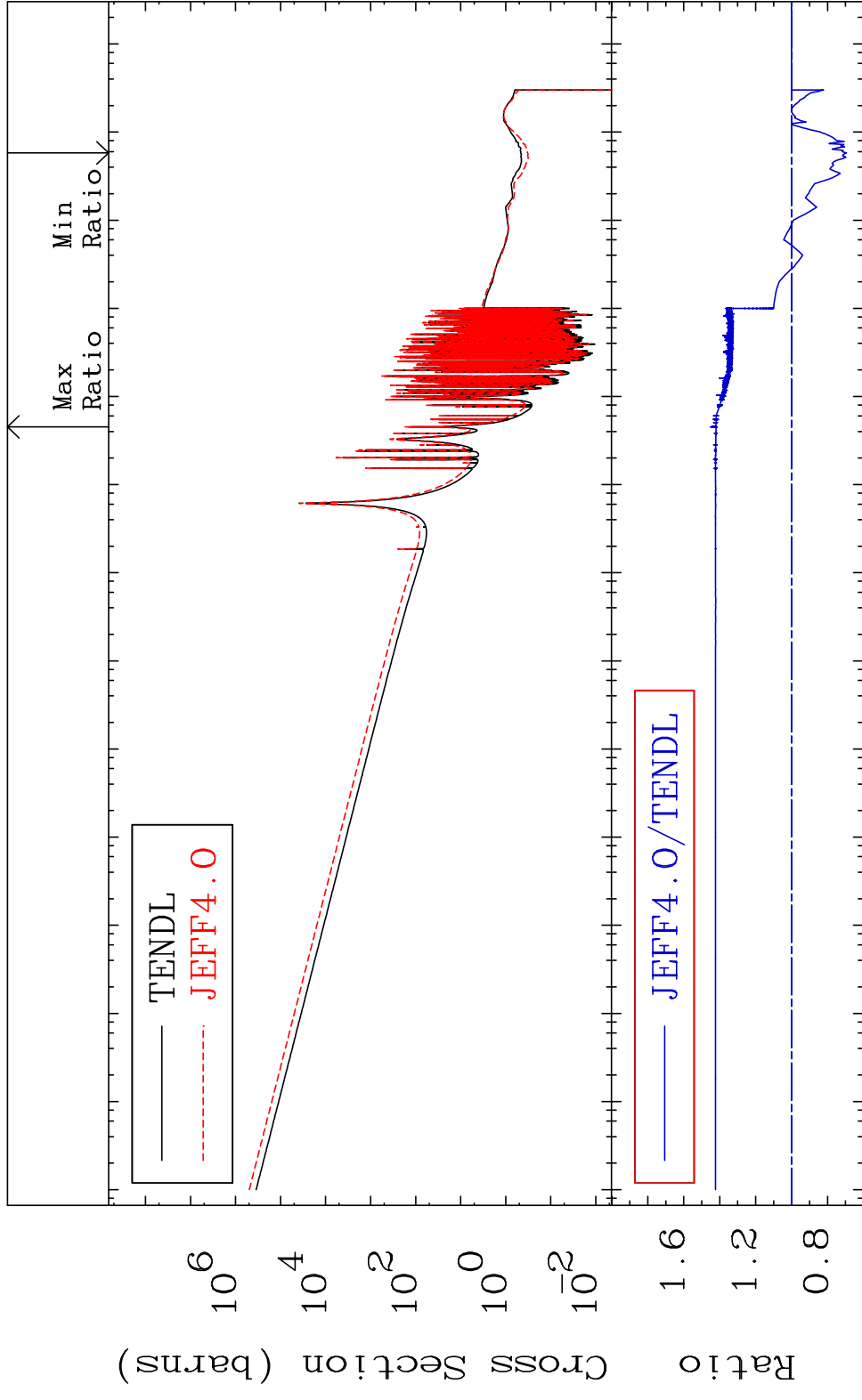
Incident Energy (eV)

25-Mn-53

MAT 2519

Kerma capture (mt102) 25-Mn-53

Cross Section -30.46 To 45.00 %

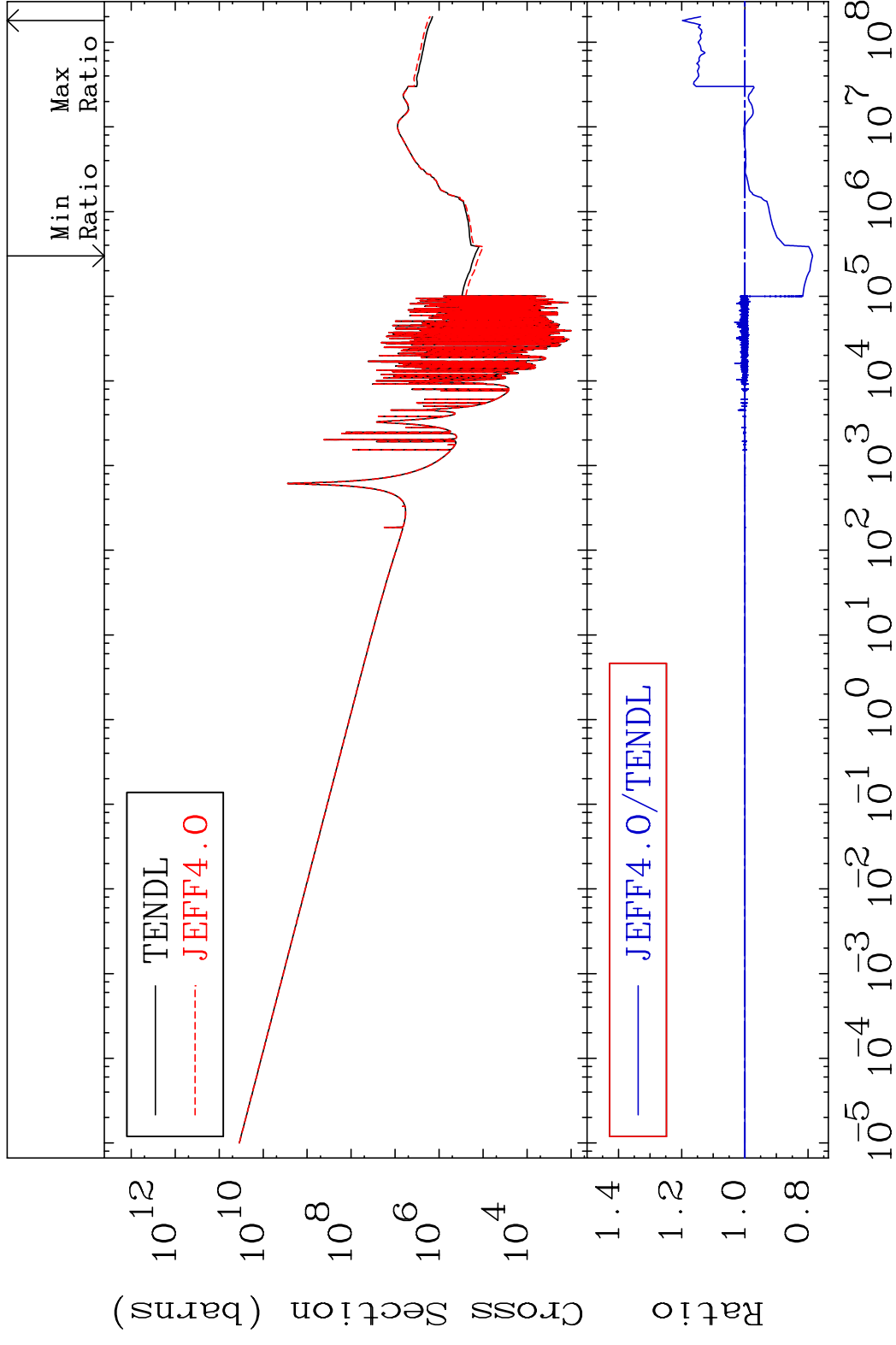


71

Incident Energy (eV)

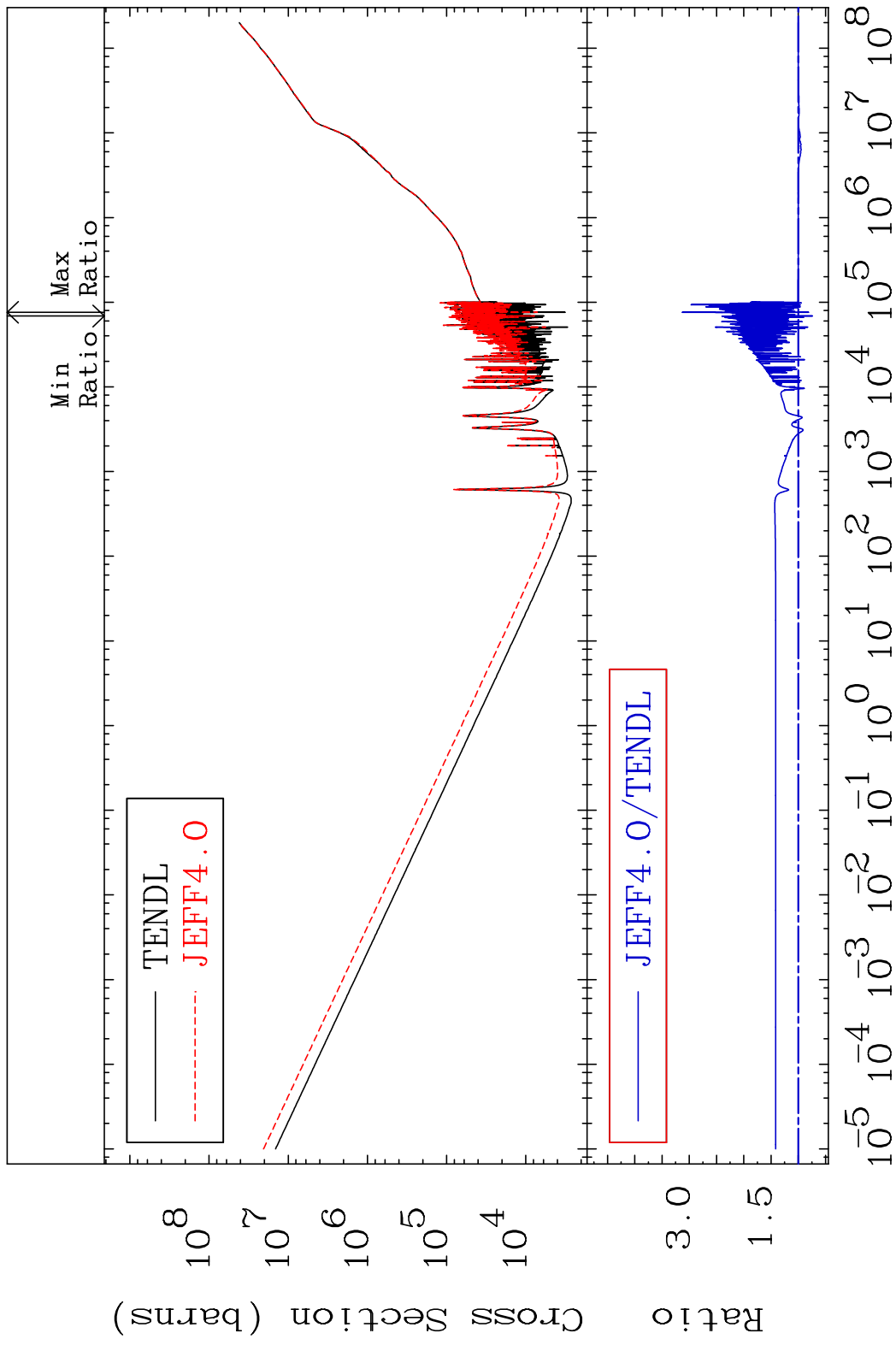
25-Mn-53

MAT 2519 Total photon (eV-barns) 25-Mn-53  
 Cross Section -21.43 To 19.77 %



72 Incident Energy (eV) 25-Mn-53

MAT 2519 Total kinematic kerma (high limit) 25-Mn-53  
Cross Section -26.22 To 212.7 %

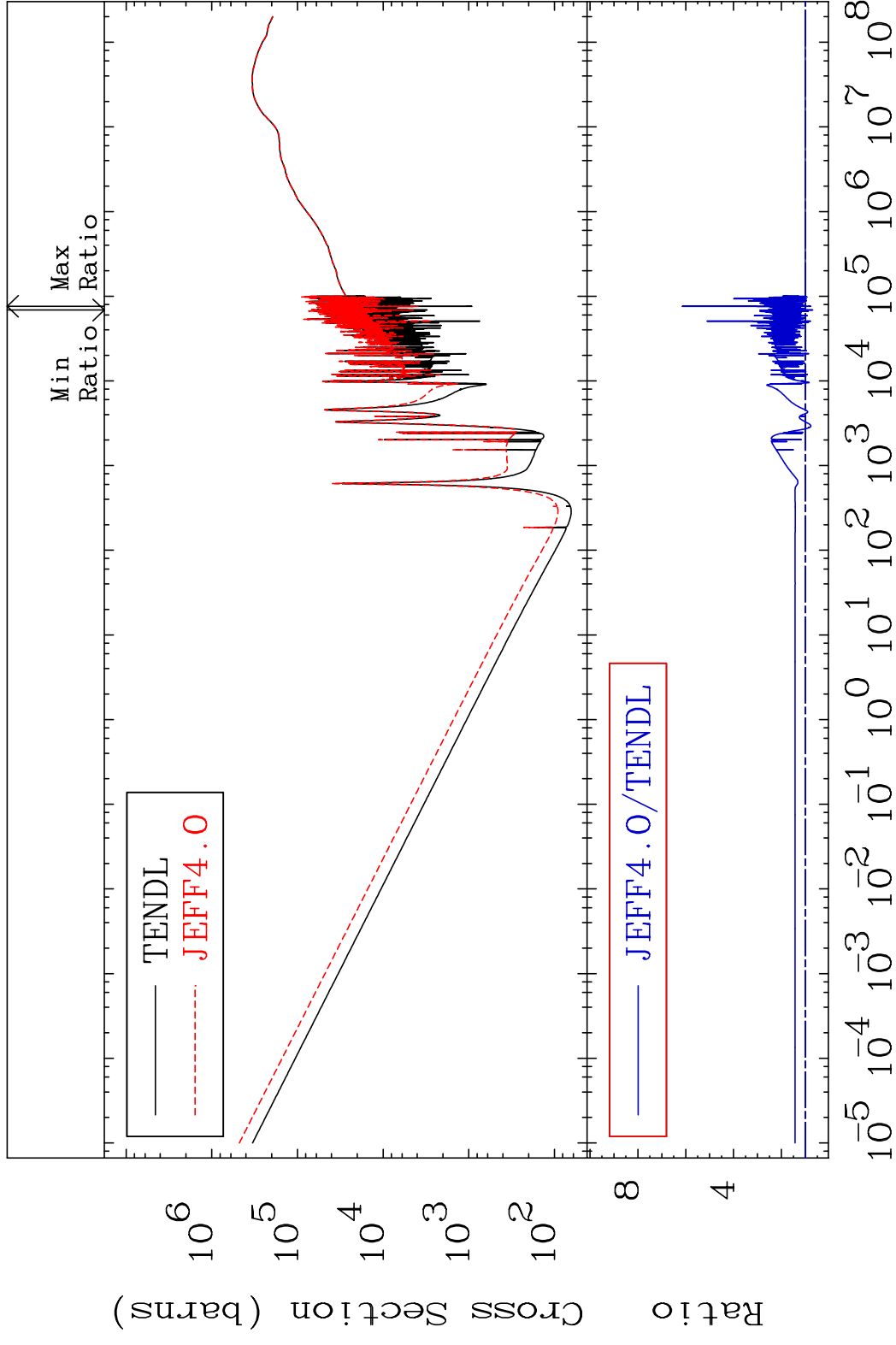


MAT 2519

Dpa total (eV-barns)

25-Mn-53

Cross Section -30.06 To 514.0 %



74

Incident Energy (eV)

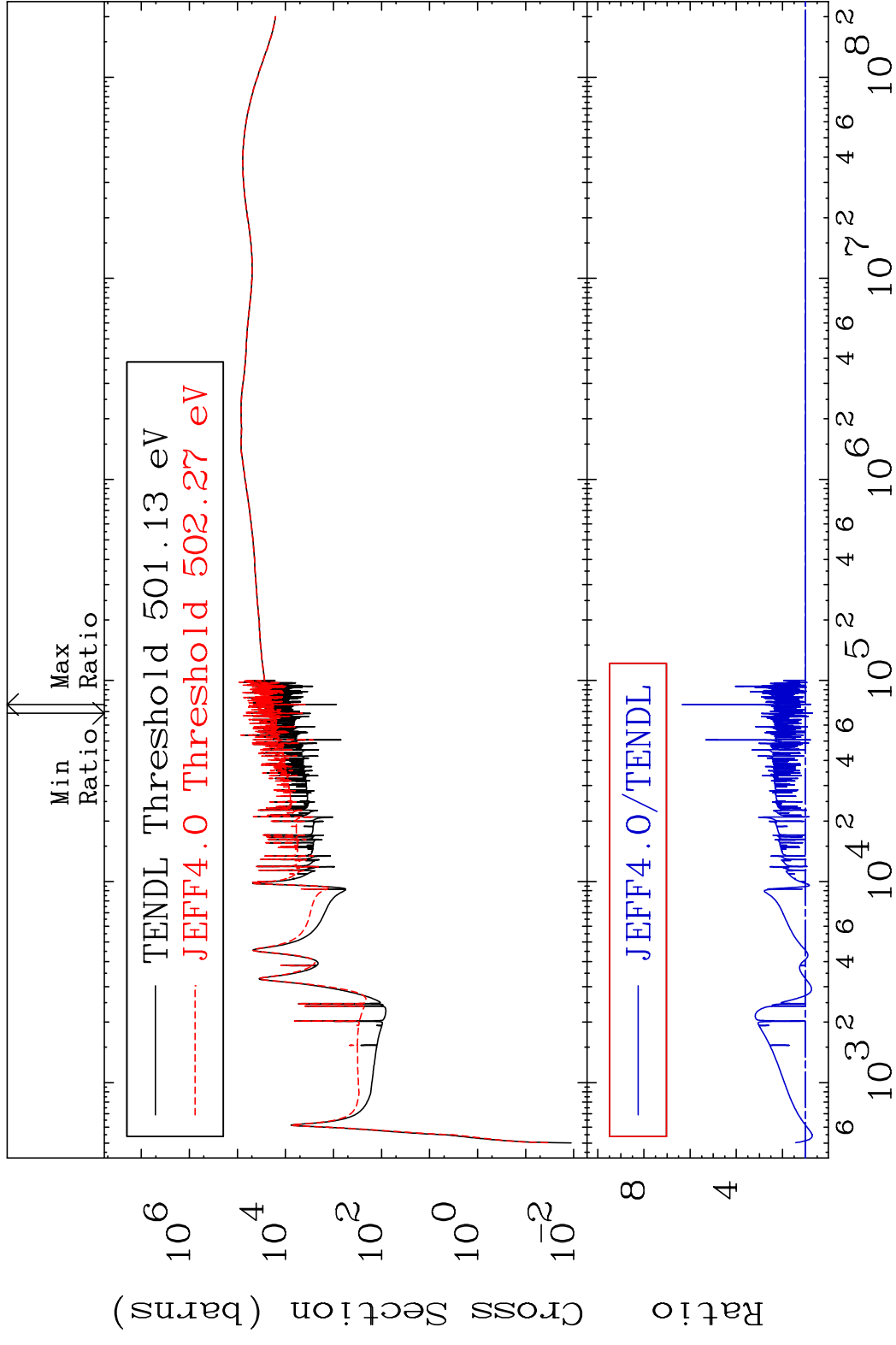
25-Mn-53

MAT 2519

Dpa elastic (mt2)

25-Mn-53

Cross Section -30.24 To 533.7 %

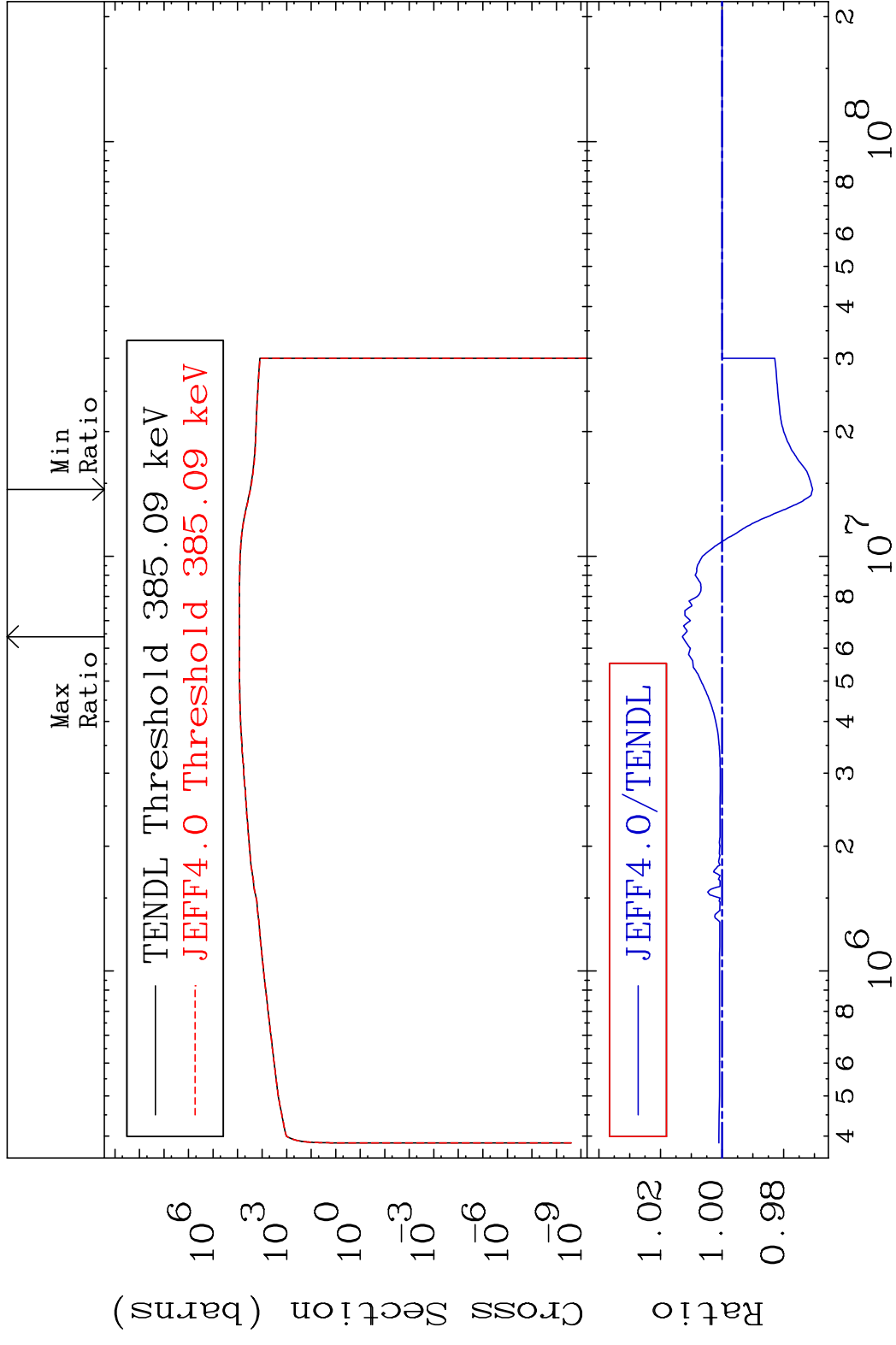


75

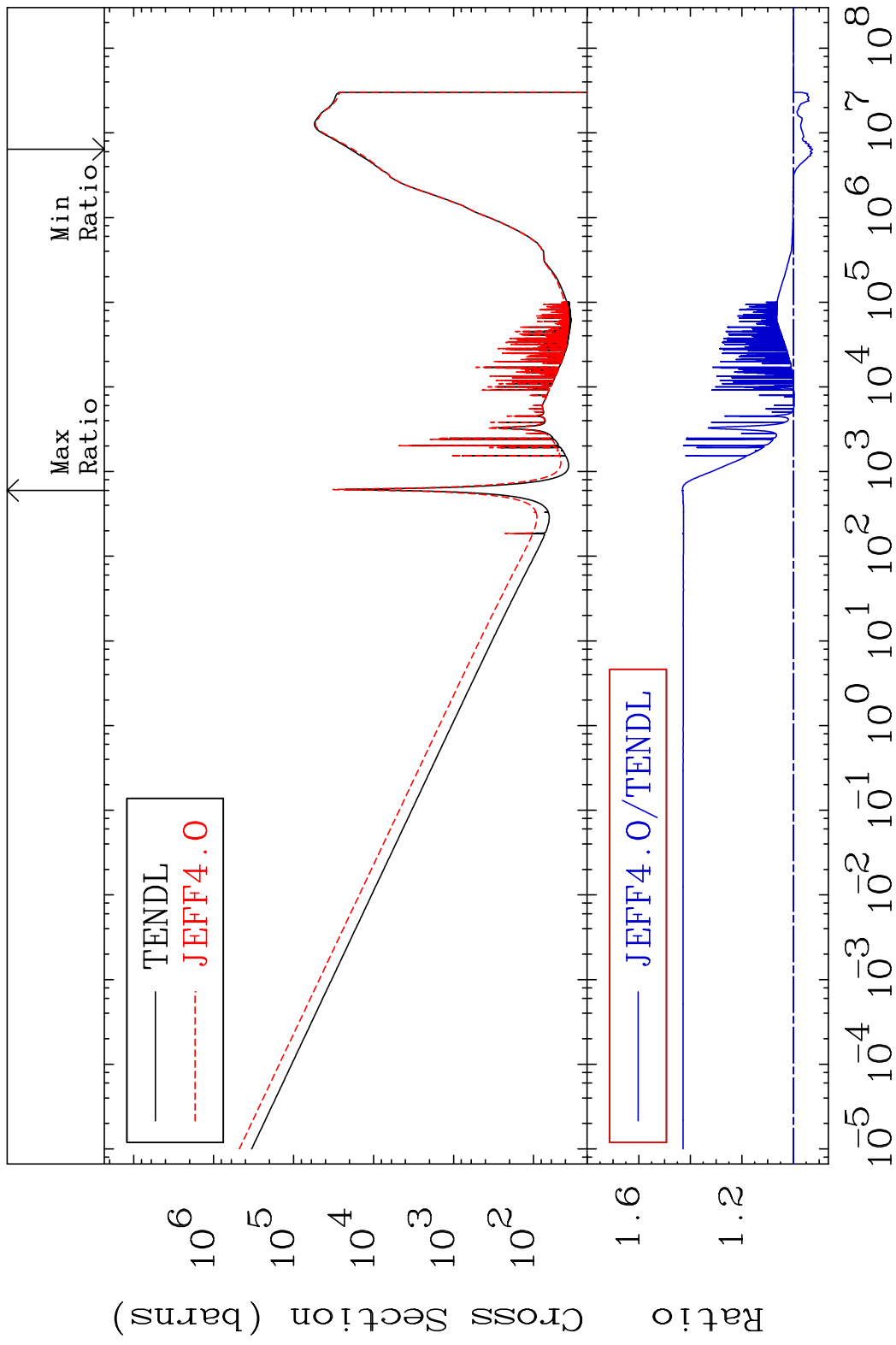
Incident Energy (eV)

25-Mn-53

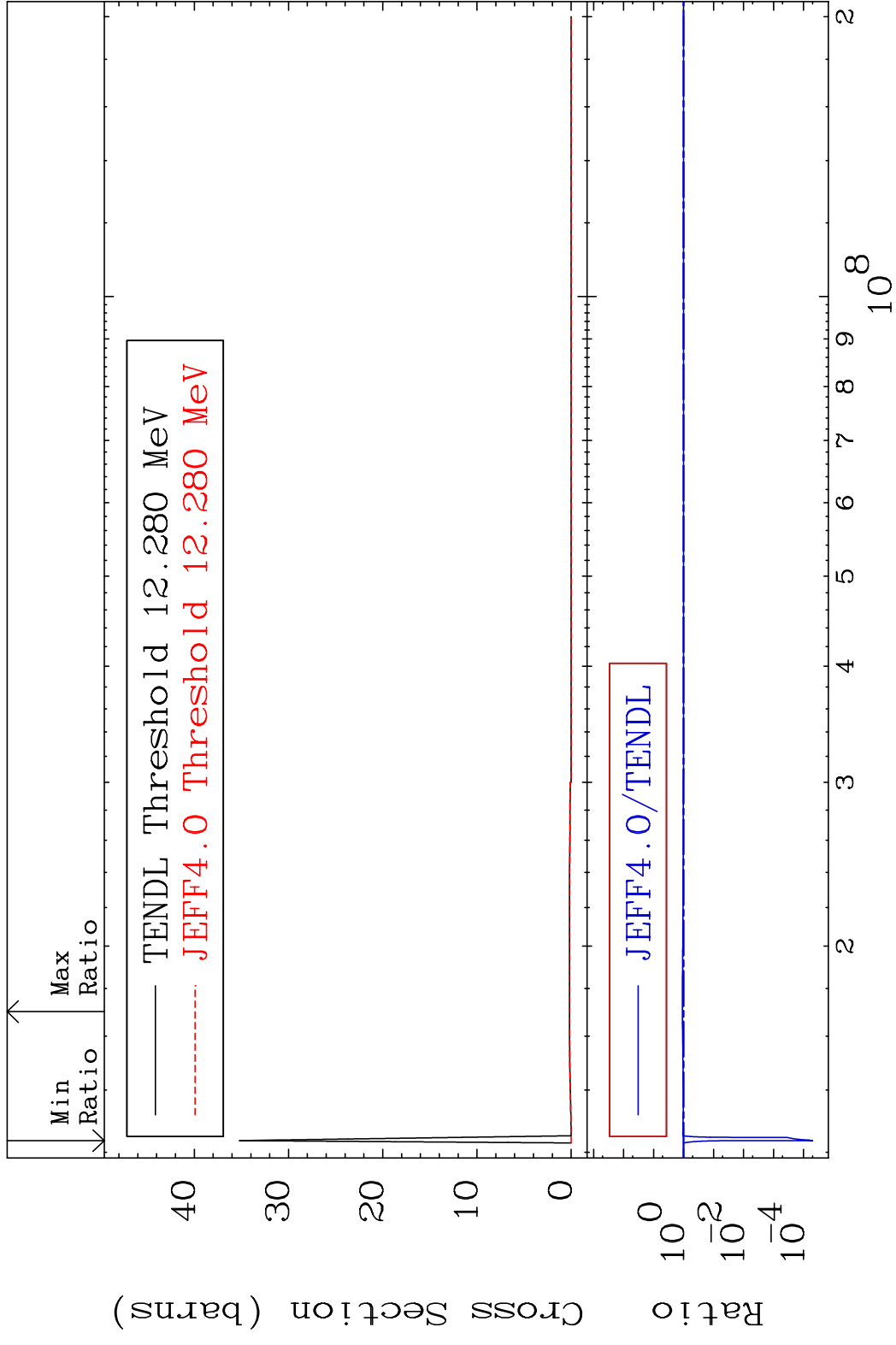
MAT 2519 Dpa inelastic (mt51-91) 25-Mn-53  
 Cross Section -2.938 To 1.290 %



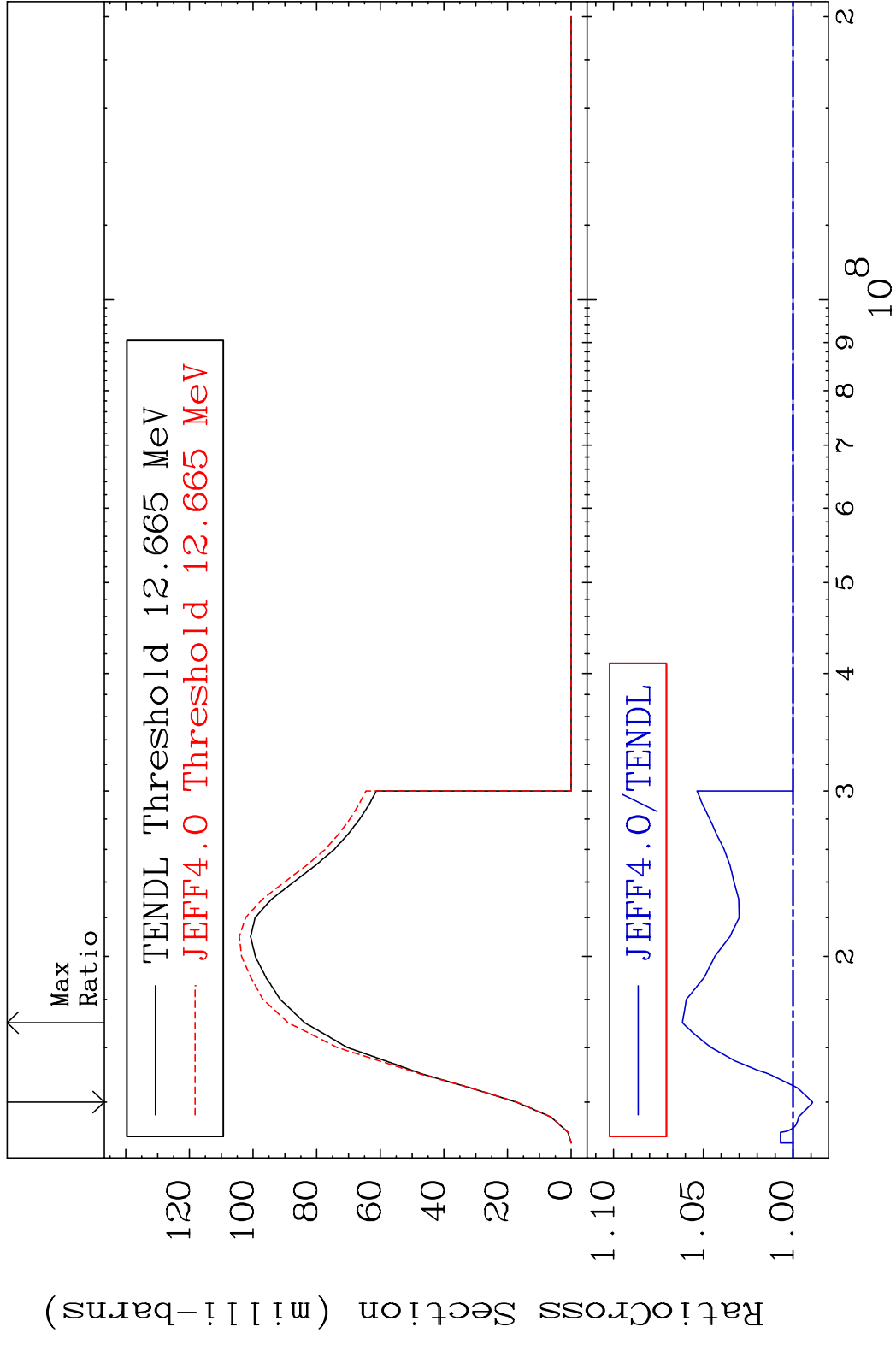
MAT 2519 Dpa disappearance (mt102 -120) 25-Mn-53  
 Cross Section -7.444 To 43.09 %

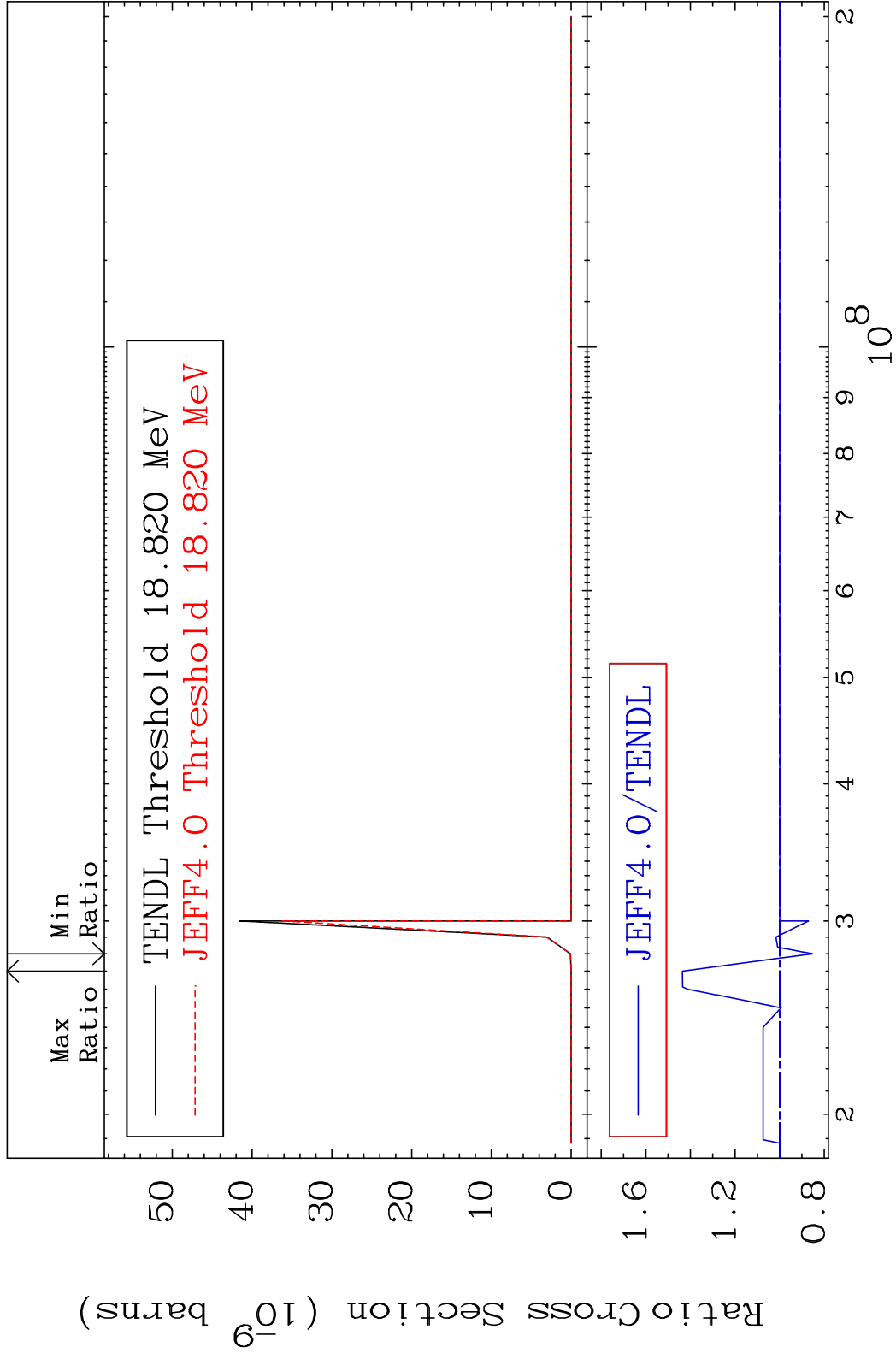


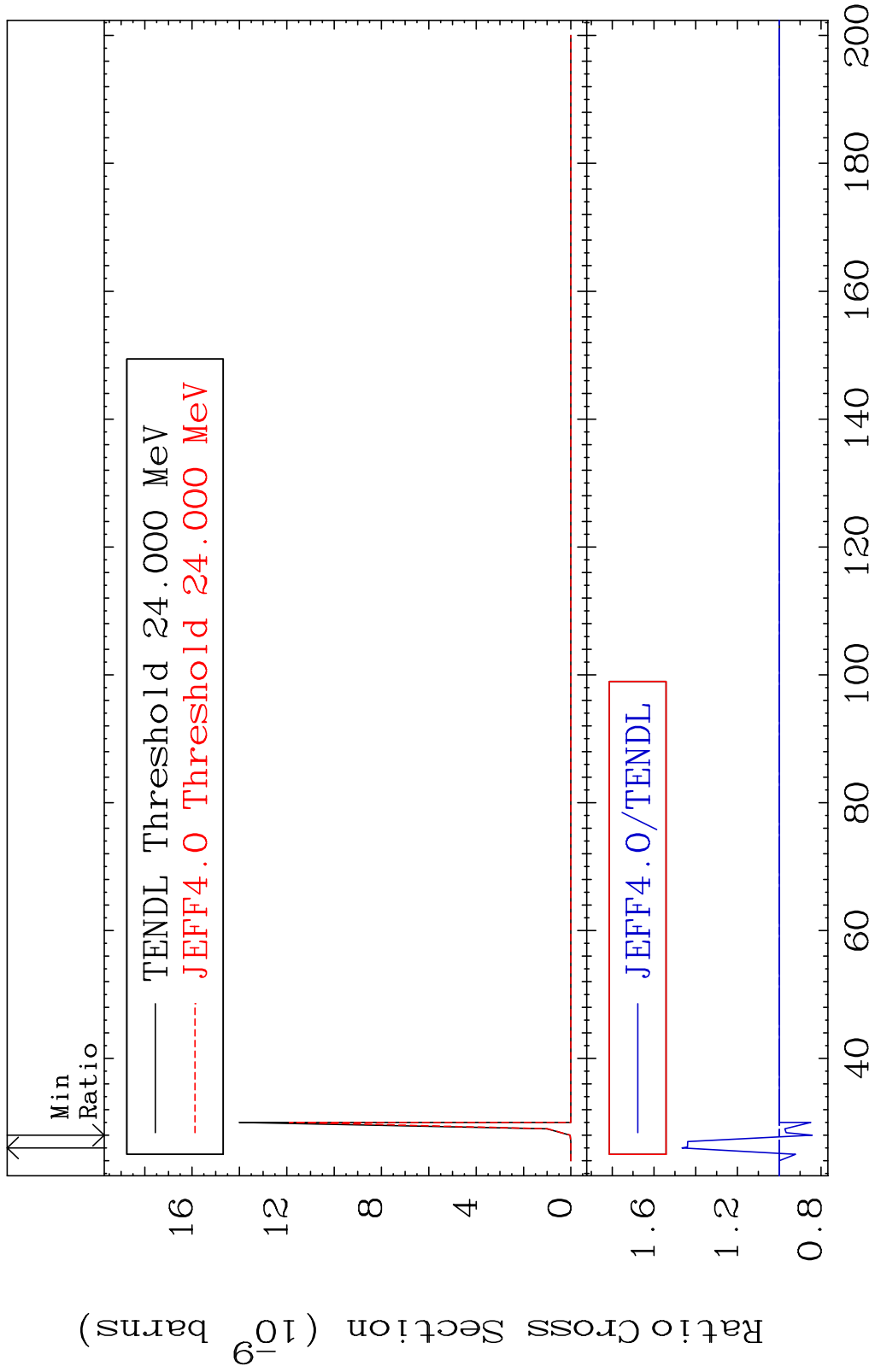
MAT 2519 (n,2n):25-Mn-52g 25-Mn-53  
 Radionuclide Production Cross Section 98.99 d to 10.13 %



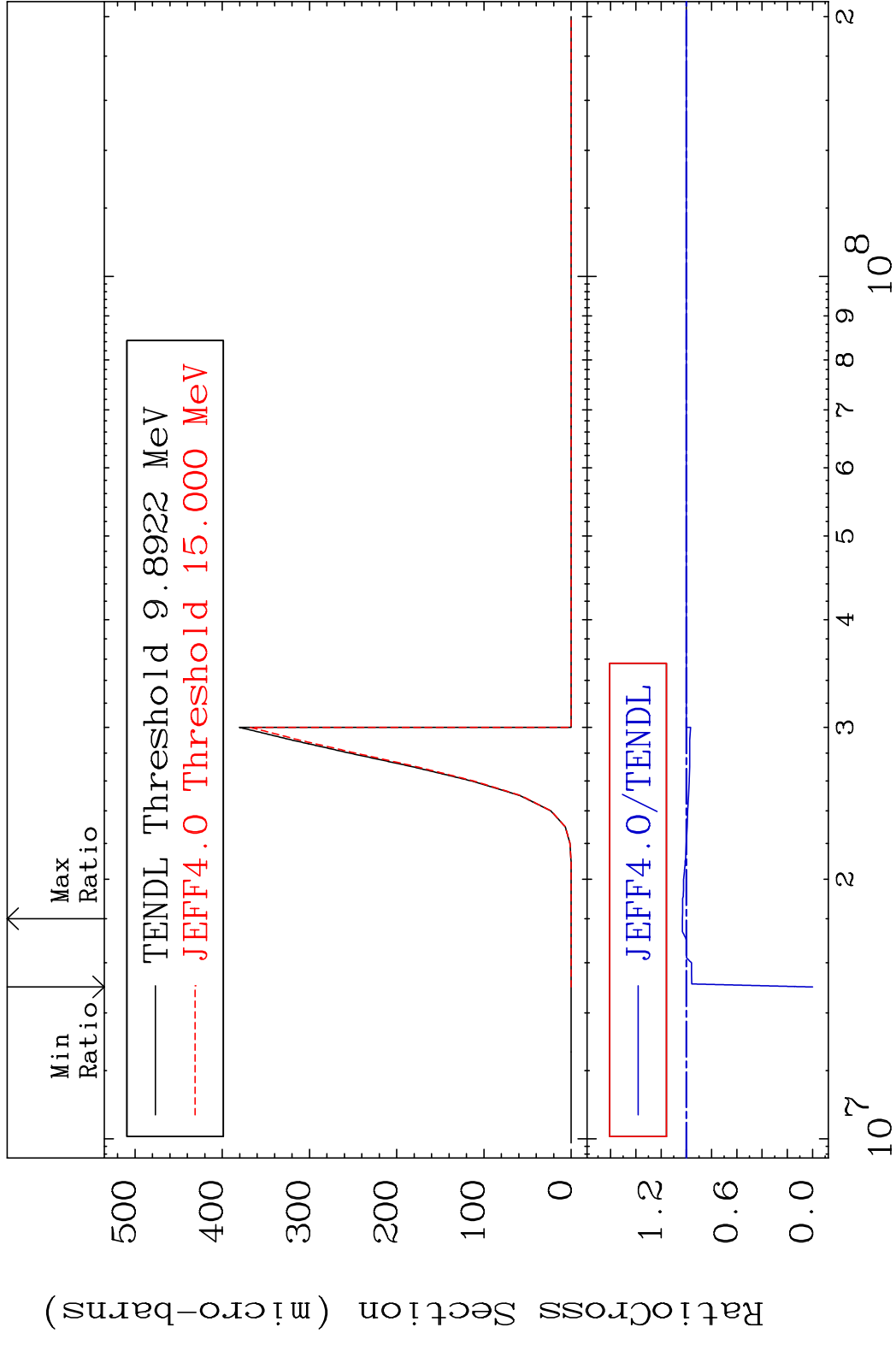
MAT 2519 (n,2n):25-Mn-52m1 25-Mn-53  
 Radionuclide Production Cross Section 6.169 %







MAT 2519 (n,2α):21-Sc-46g 25-Mn-53  
 Radionuclide Production Cross Section Ratio 3.139 %



82 25-Mn-53

