

Program Complot  
(Version 2021-1)

by

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(Present Contact Information)

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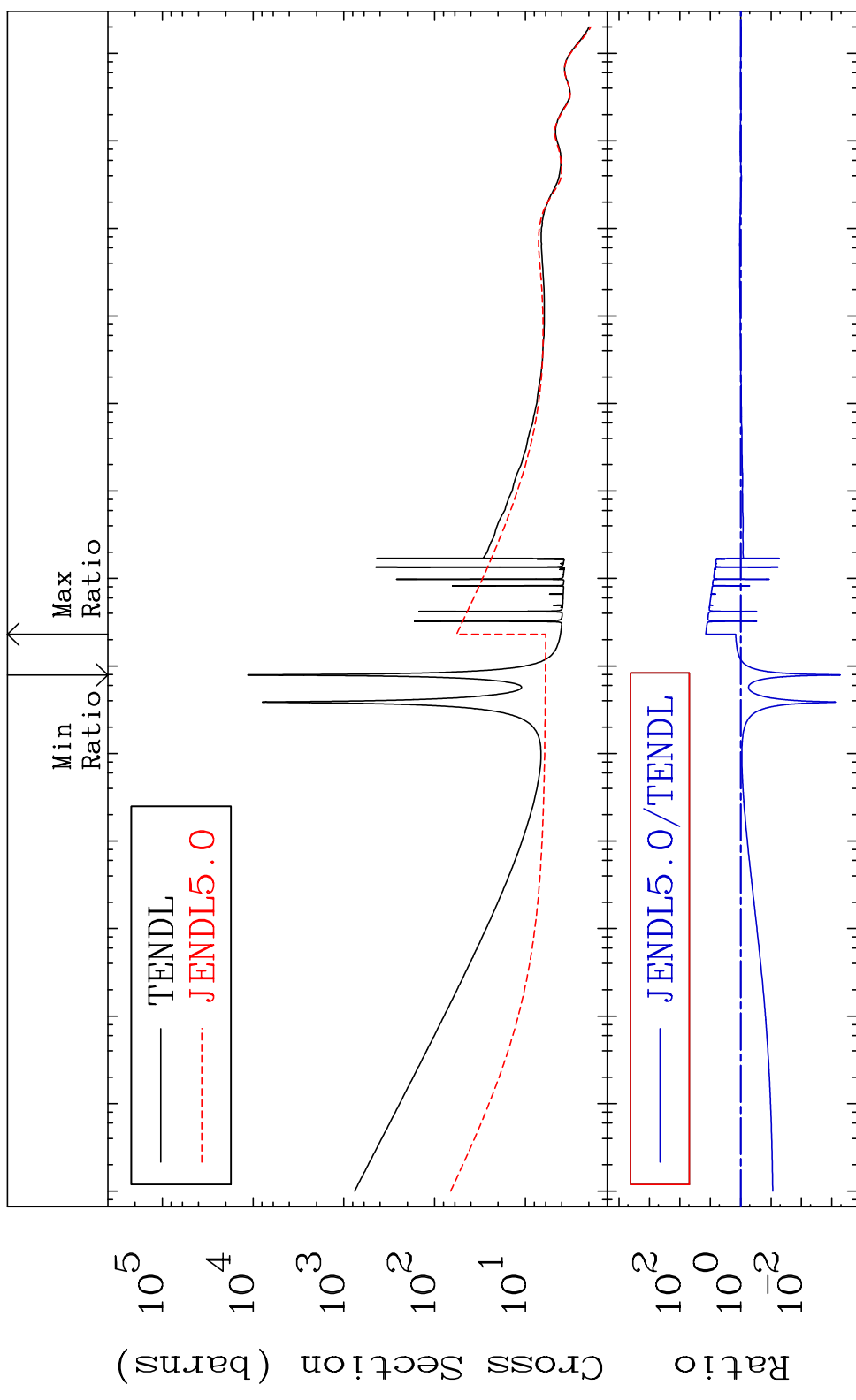
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Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 5053

Total Cross Section -99.95 %  
50-Sn-121m To 1296. %

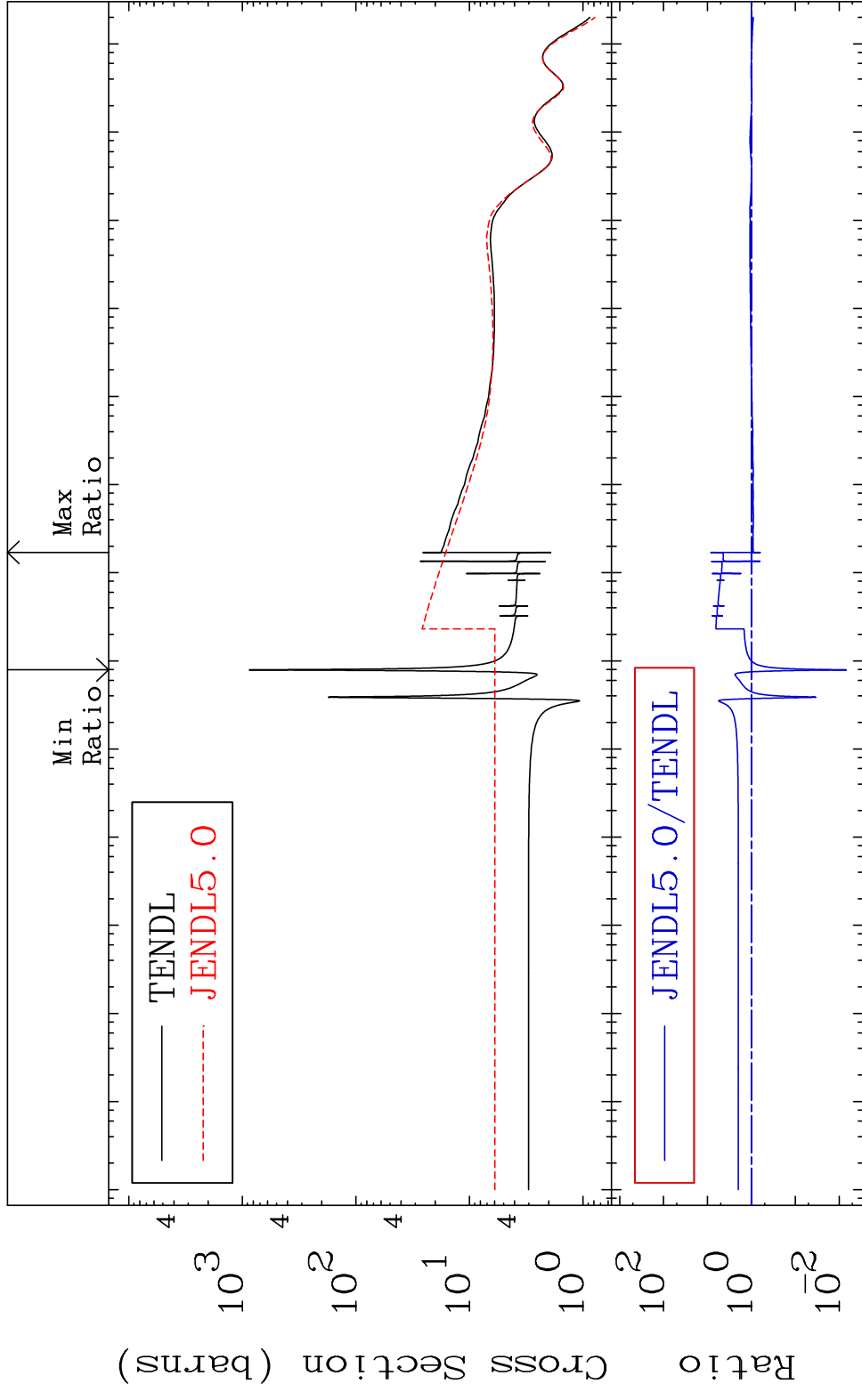


10<sup>5</sup> 10<sup>4</sup> 10<sup>3</sup> 10<sup>2</sup> 10<sup>1</sup> 10<sup>0</sup> 10<sup>-1</sup> 10<sup>-2</sup> 10<sup>-3</sup> 10<sup>-4</sup> 10<sup>-5</sup> Incident Energy (eV)

1 50-Sn-121m

MAT 5053

Elastic Cross Section -99.31 To 743.8 %  
50-Sn-121m



2

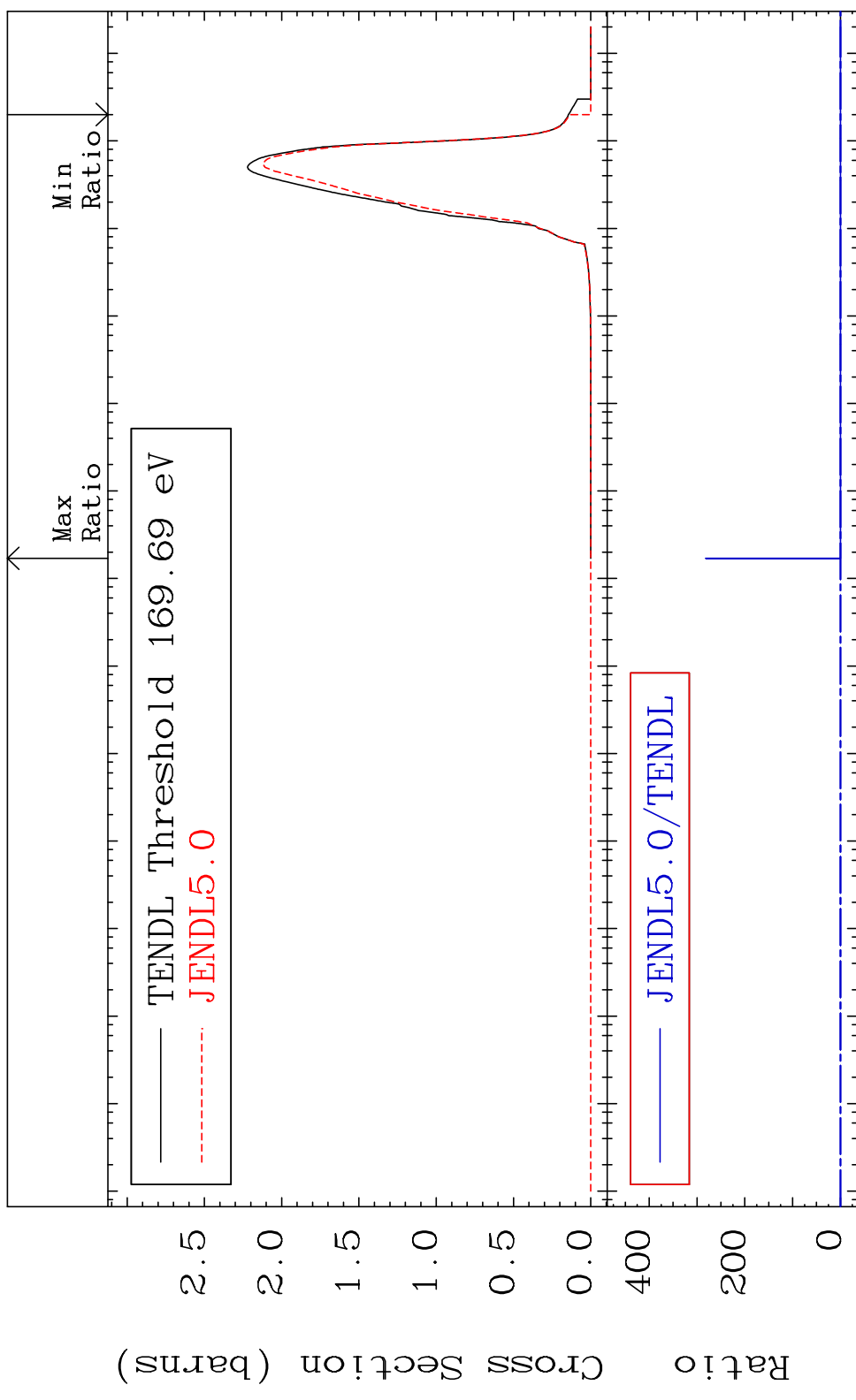
Incident Energy (eV) 50-Sn-121m

MAT 5053

Inelastic

50-Sn-121m

Cross Section -100.0 To 9999. %



3

Incident Energy (eV)

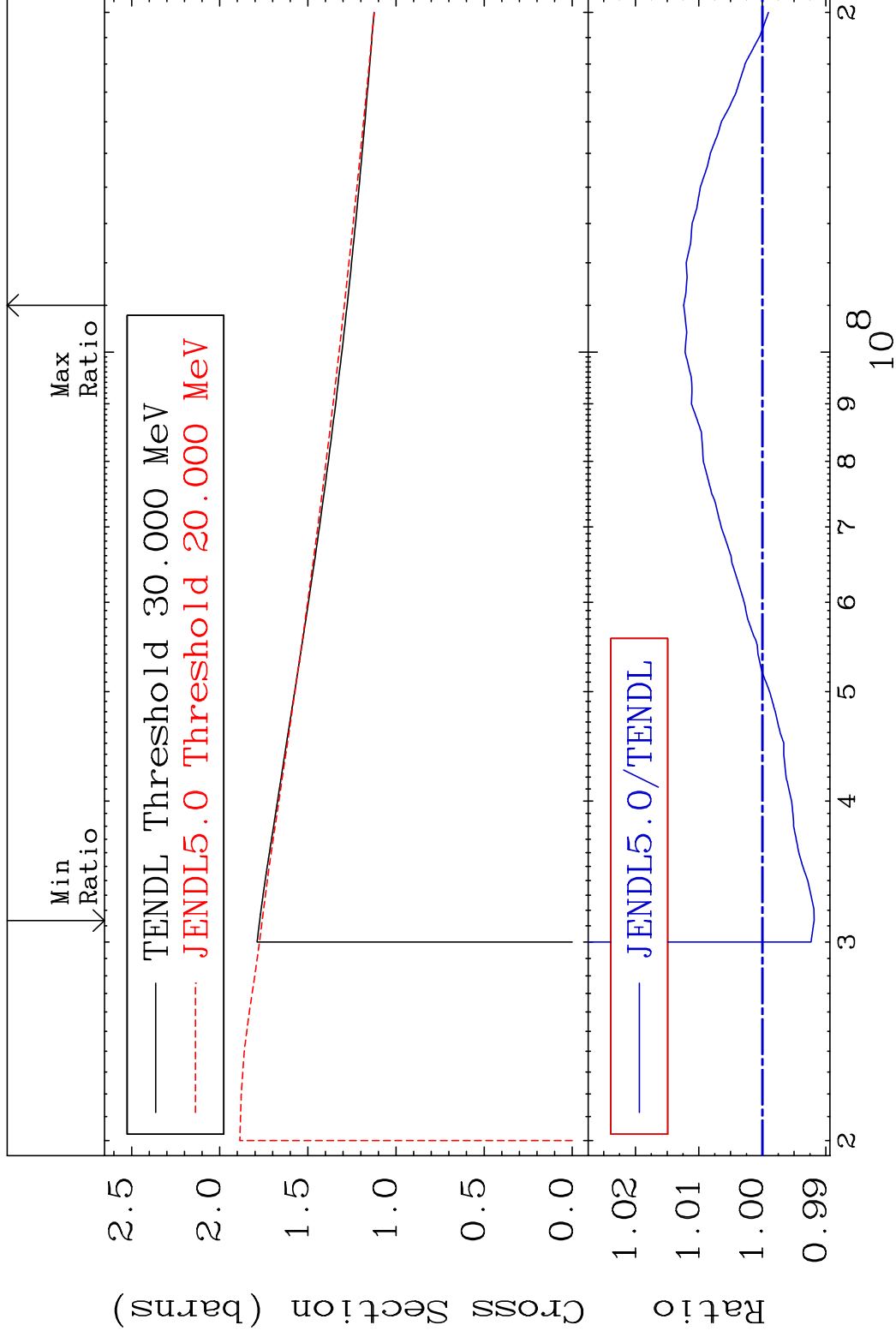
50-Sn-121m

MAT 5053

(n, remainder)

50-Sn-121m

Cross Section -0.815 To 1.240 %

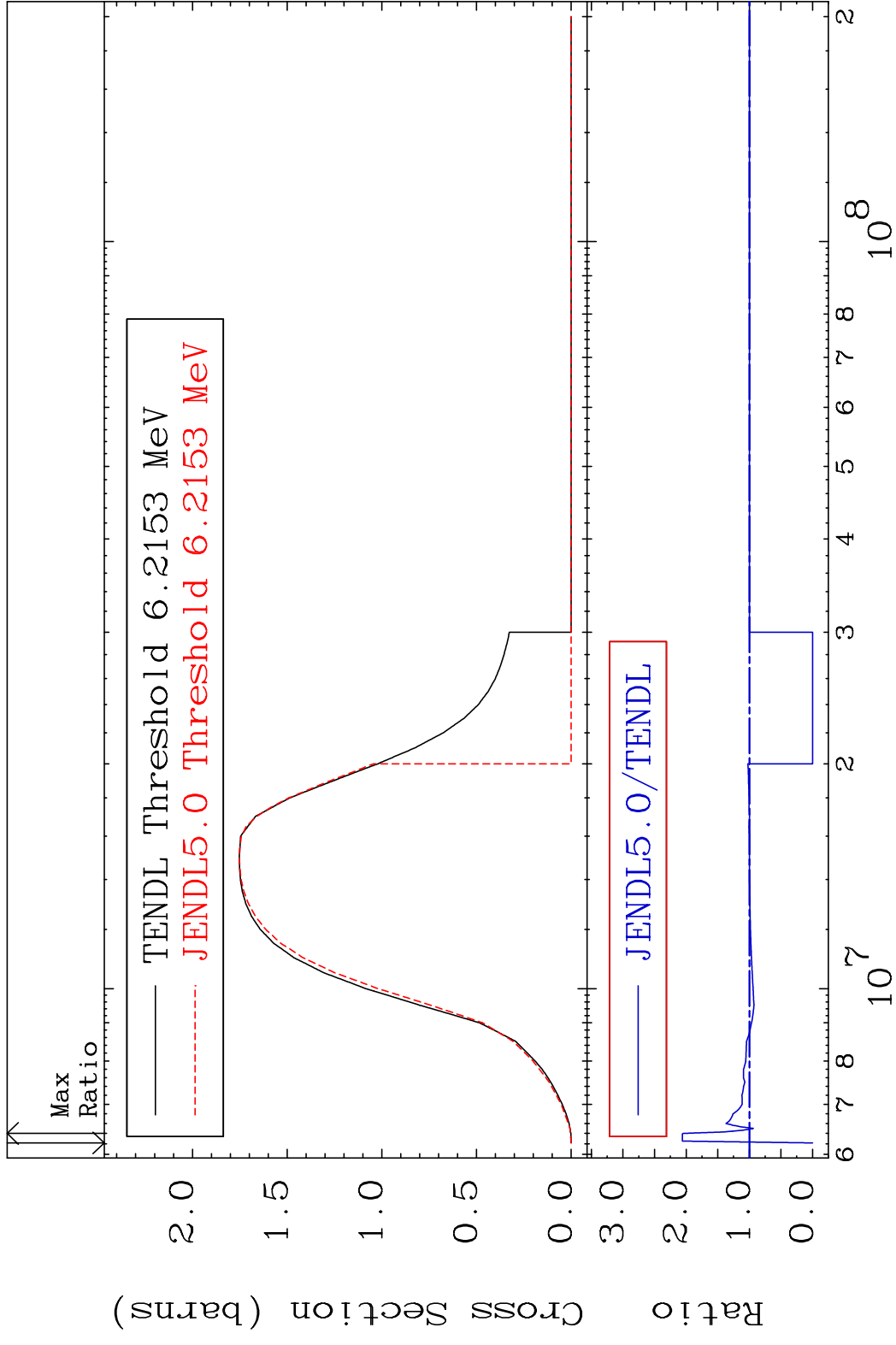


4

Incident Energy (eV)

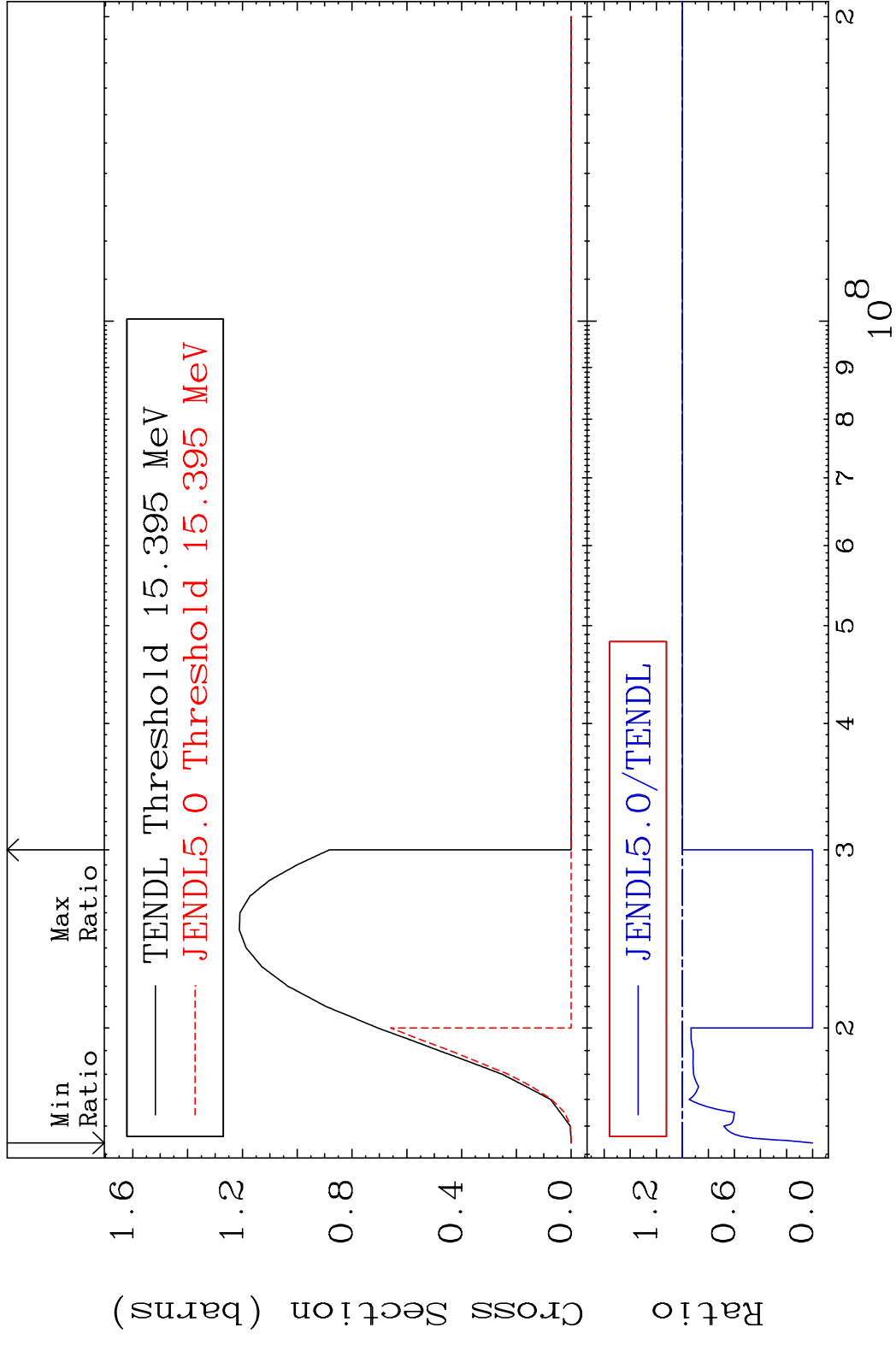
50-Sn-121m

MAT 5053 (n,2n) 50-Sn-121m  
 Cross Section -100.0 To 106.0 %

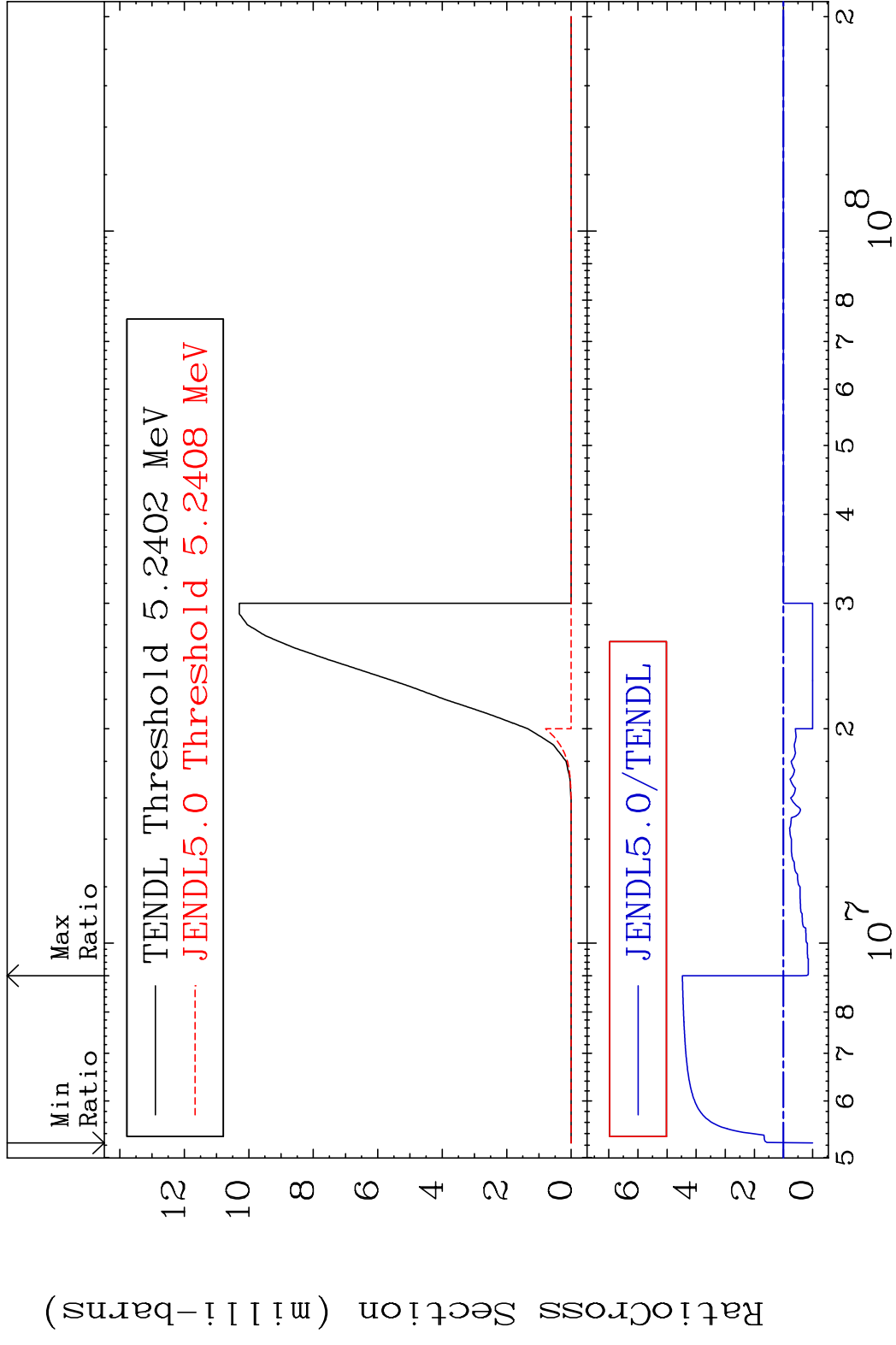


5 Incident Energy (eV) 50-Sn-121m

MAT 5053 (n,3n) 50-Sn-121m  
 Cross Section -100.0 To 0.000 %



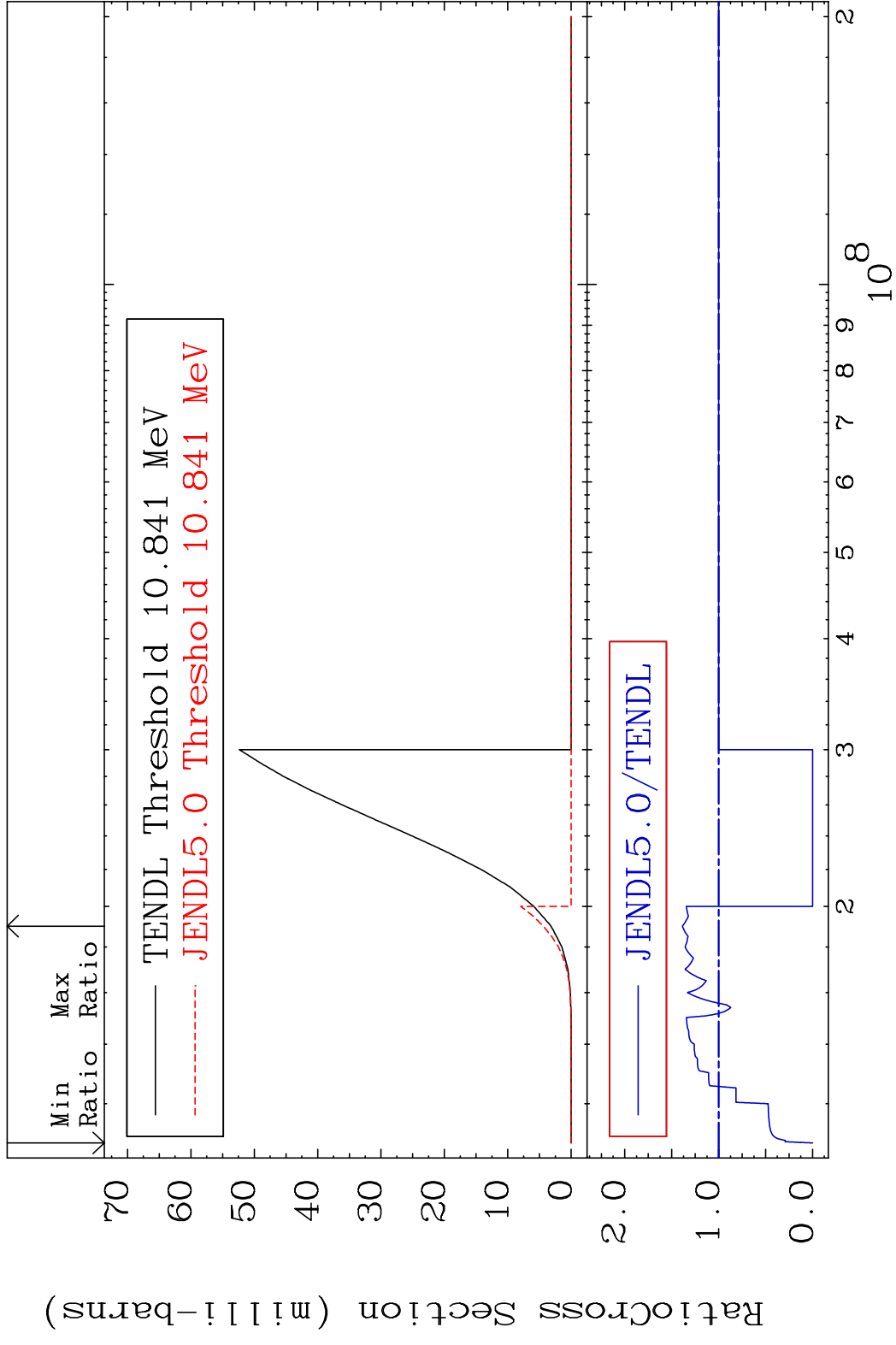
MAT 5053 (n, n')  $\alpha$  50-Sn-121m  
 Cross Section -100.0 To 347.4 %



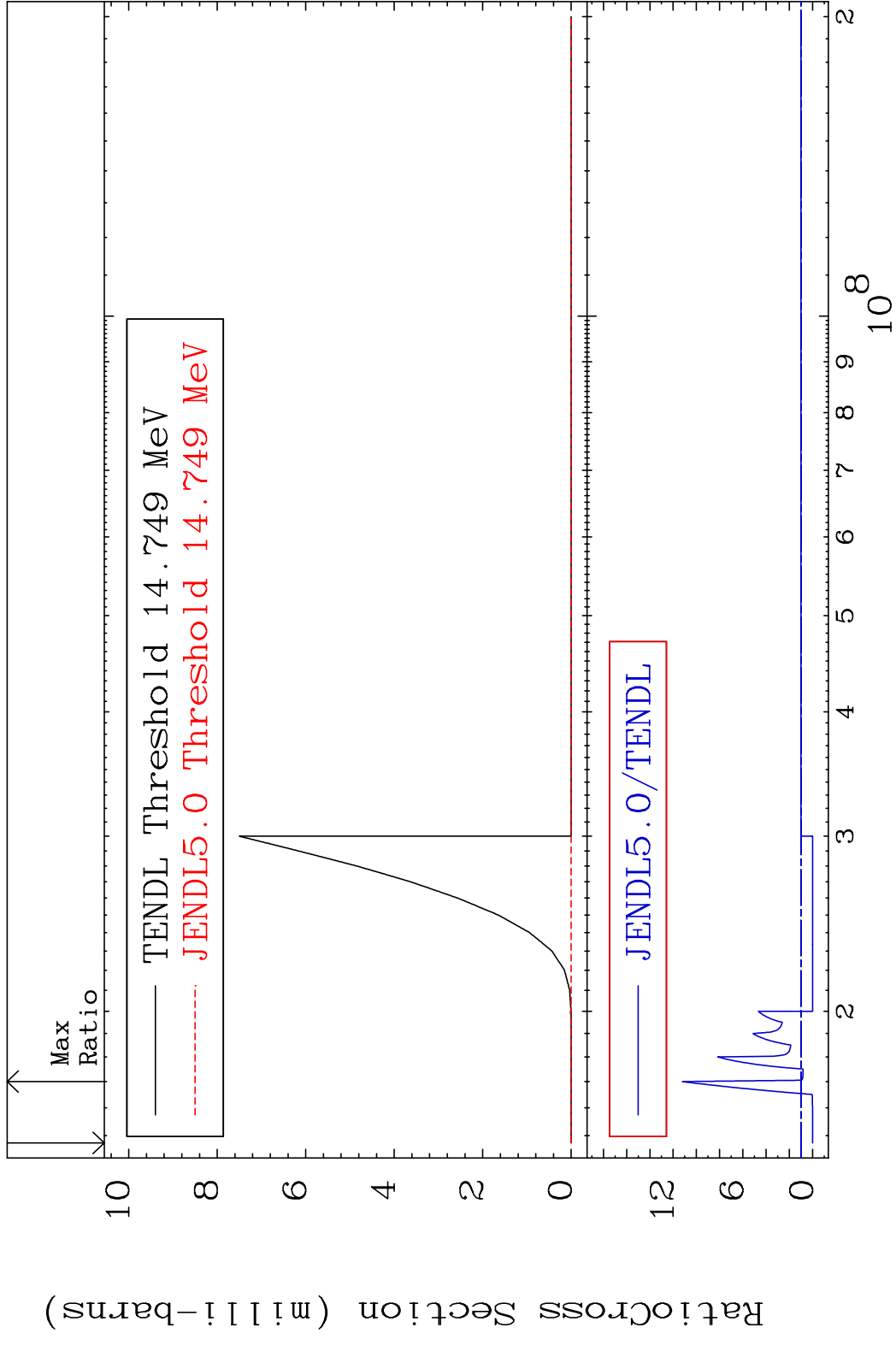
7 Incident Energy (eV) 50-Sn-121m



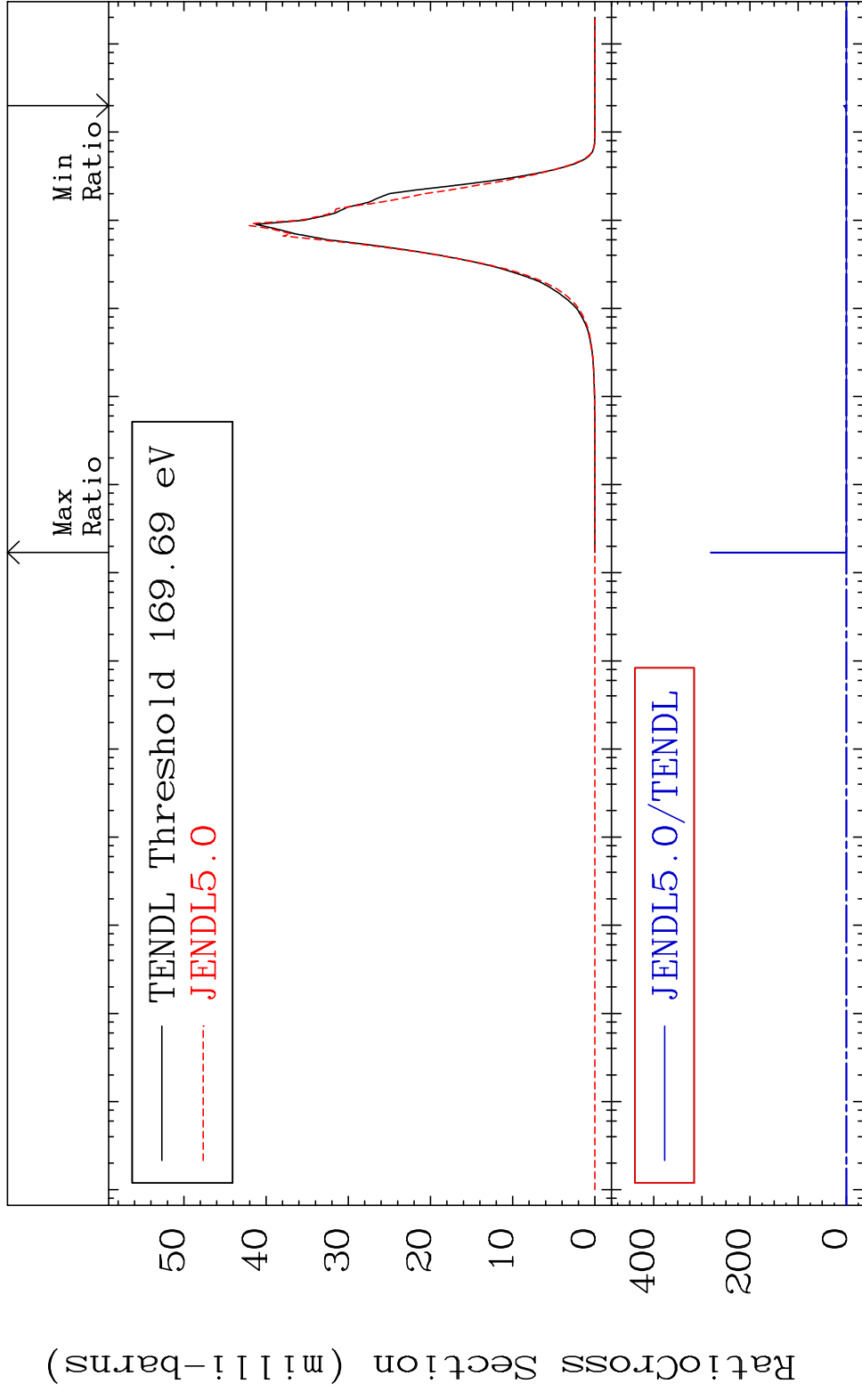
MAT 5053 (n, n') p 50-Sn-121m  
 Cross Section -100.0 To 38.69 %



MAT 5053 (n, n') d 50-Sn-121m  
 Cross Section -100.0 To 1021. %



MAT 5053 MT= 51 (n, n') Level 50-Sn-121m  
 Cross Section -100.0 To 9999. %



Ratio Cross Section (milli-barns)

50  
40  
30  
20  
10  
0

400  
200  
0

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>

10 Incident Energy (eV) 50-Sn-121m

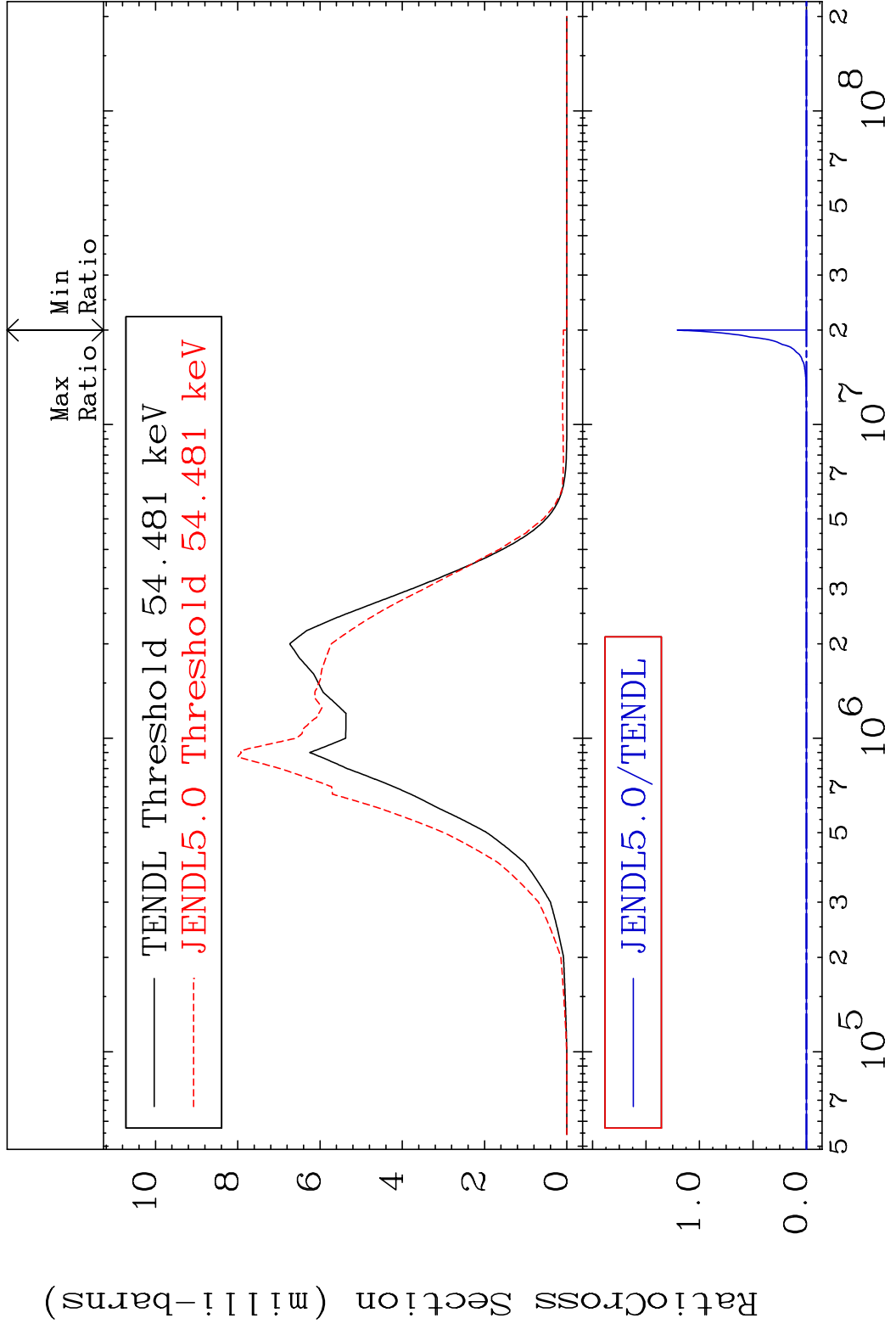
— TENDL Threshold 169.69 eV  
 - - - JENDL5.0

— JENDL5.0/TENDL

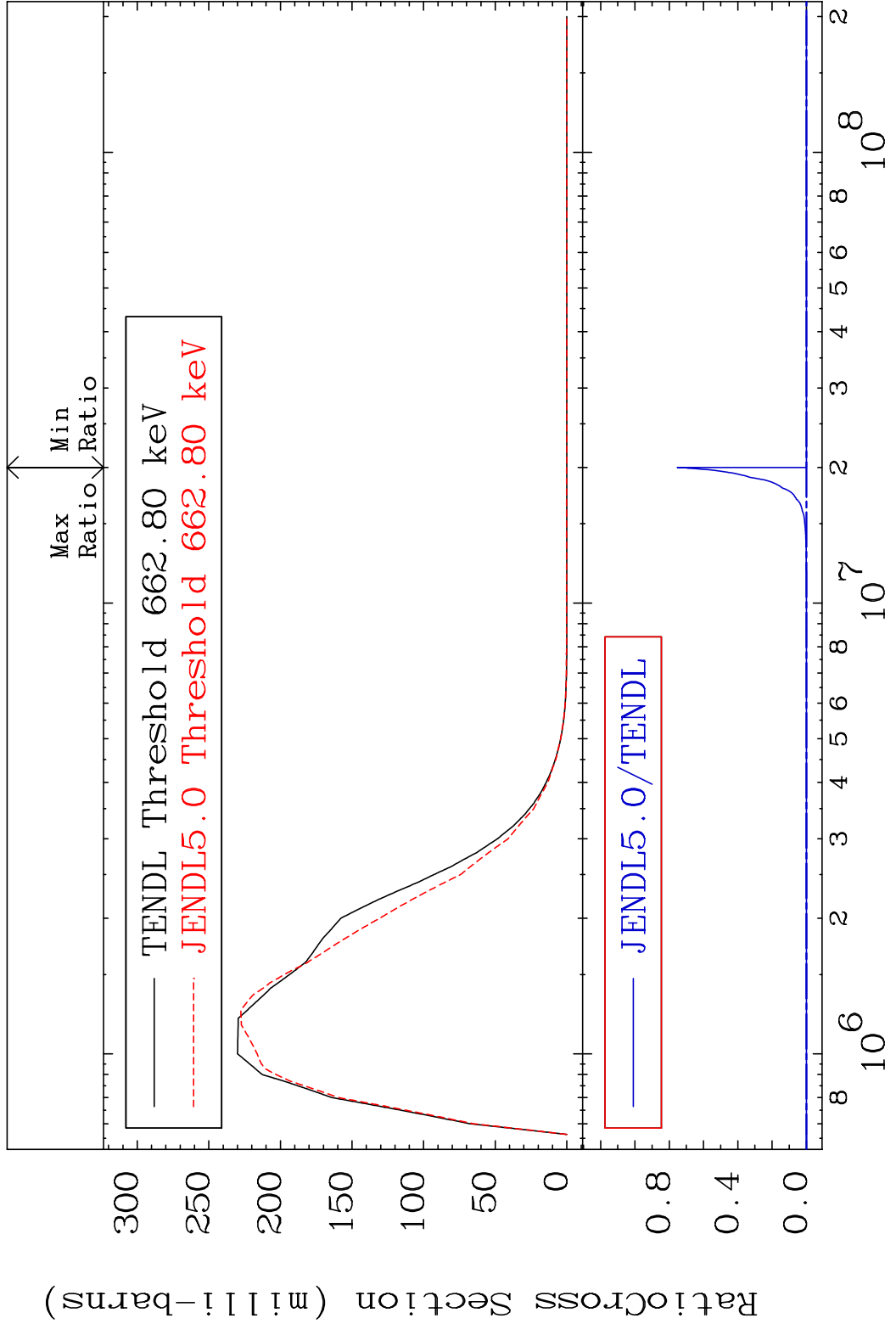
← Max Ratio

→ Min Ratio

MAT 5053 MT= 52 (n,n') Level 50-Sn-121m  
 Cross Section -100.0 To 9999. %

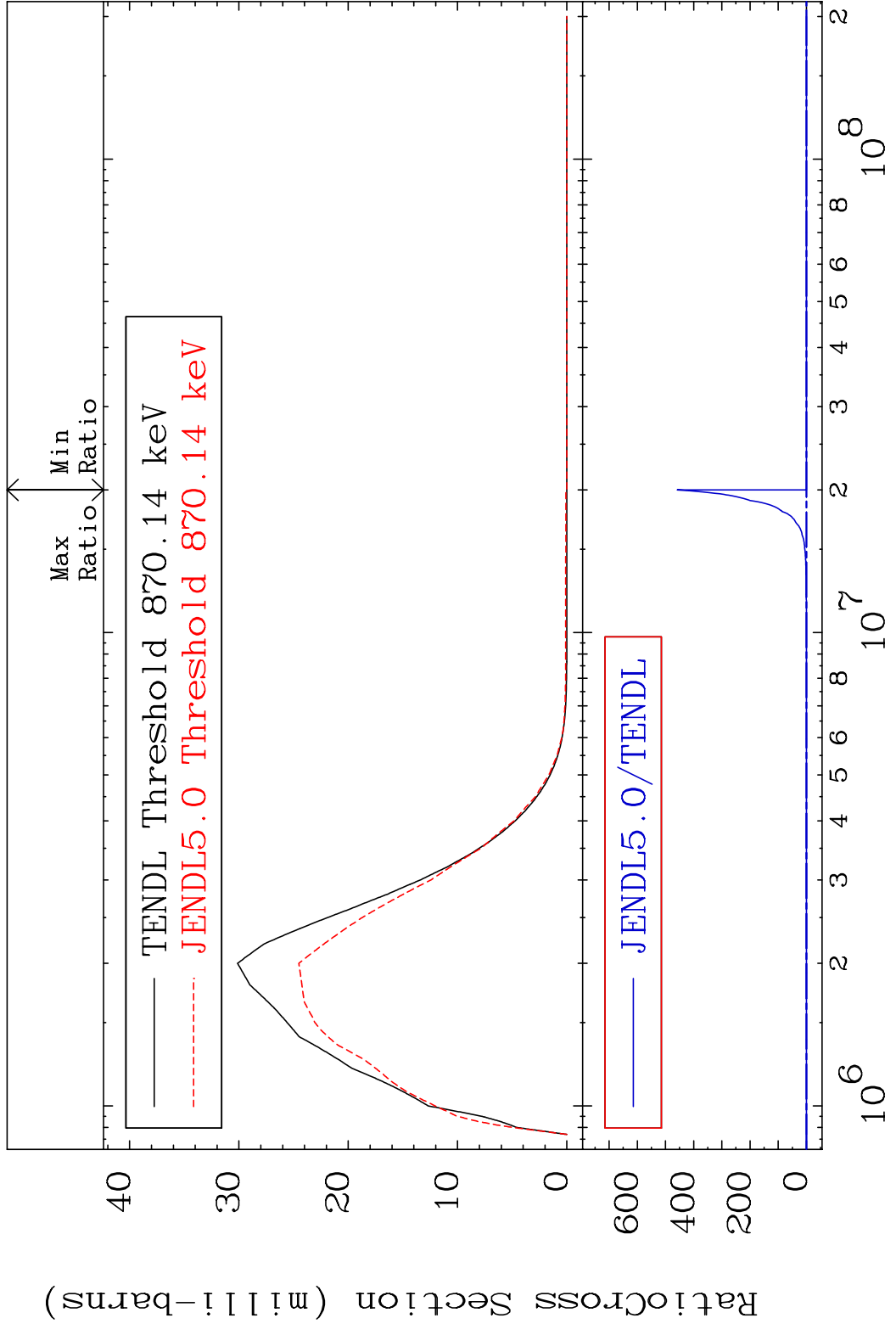


MAT 5053 MT= 53 (n, n') Level 50-Sn-121m  
 Cross Section -100.0 To 9999. %

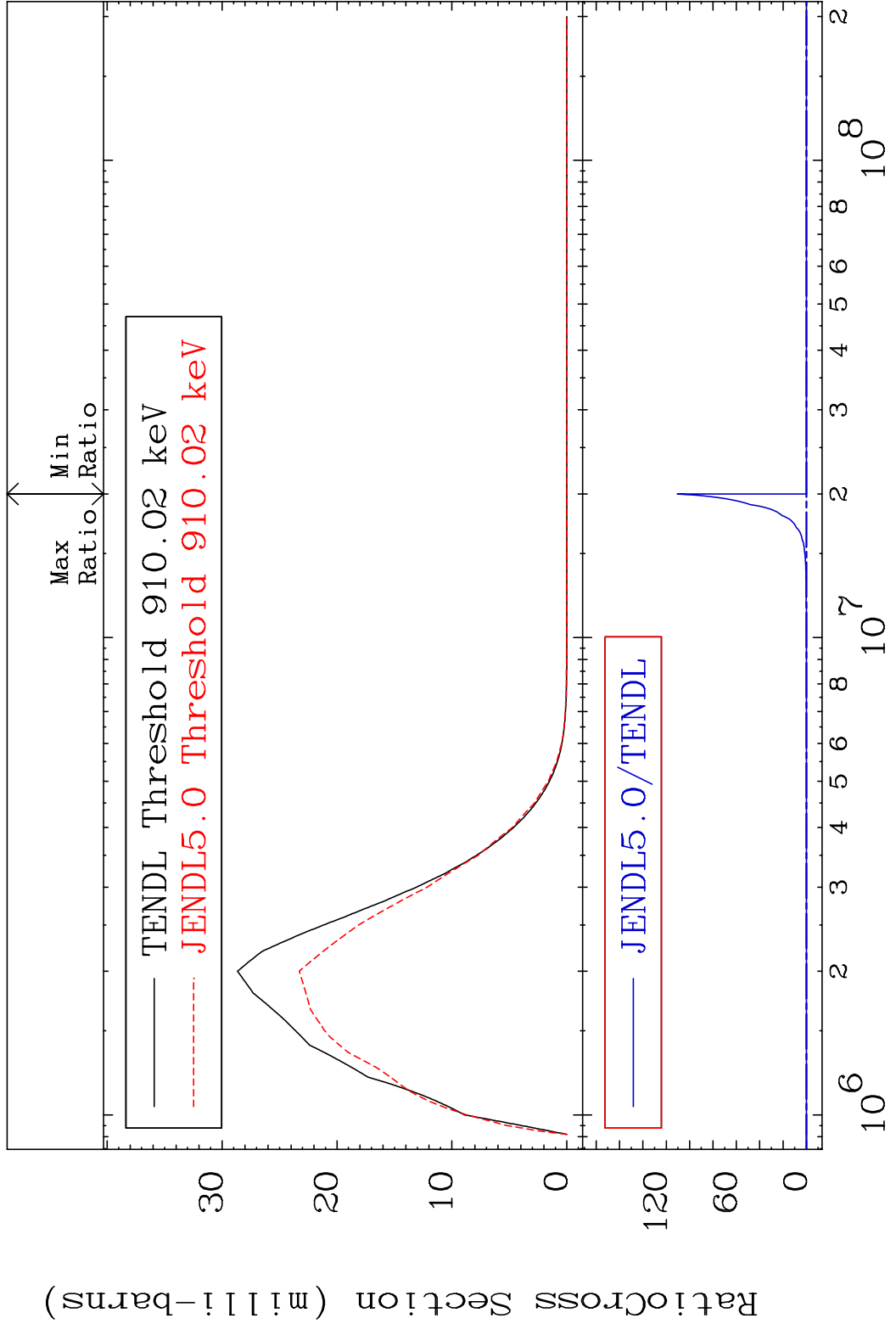


12 Incident Energy (eV) 50-Sn-121m

MAT 5053 MT= 54 (n, n') Level 50-Sn-121m  
 Cross Section -100.0 To 9999. %

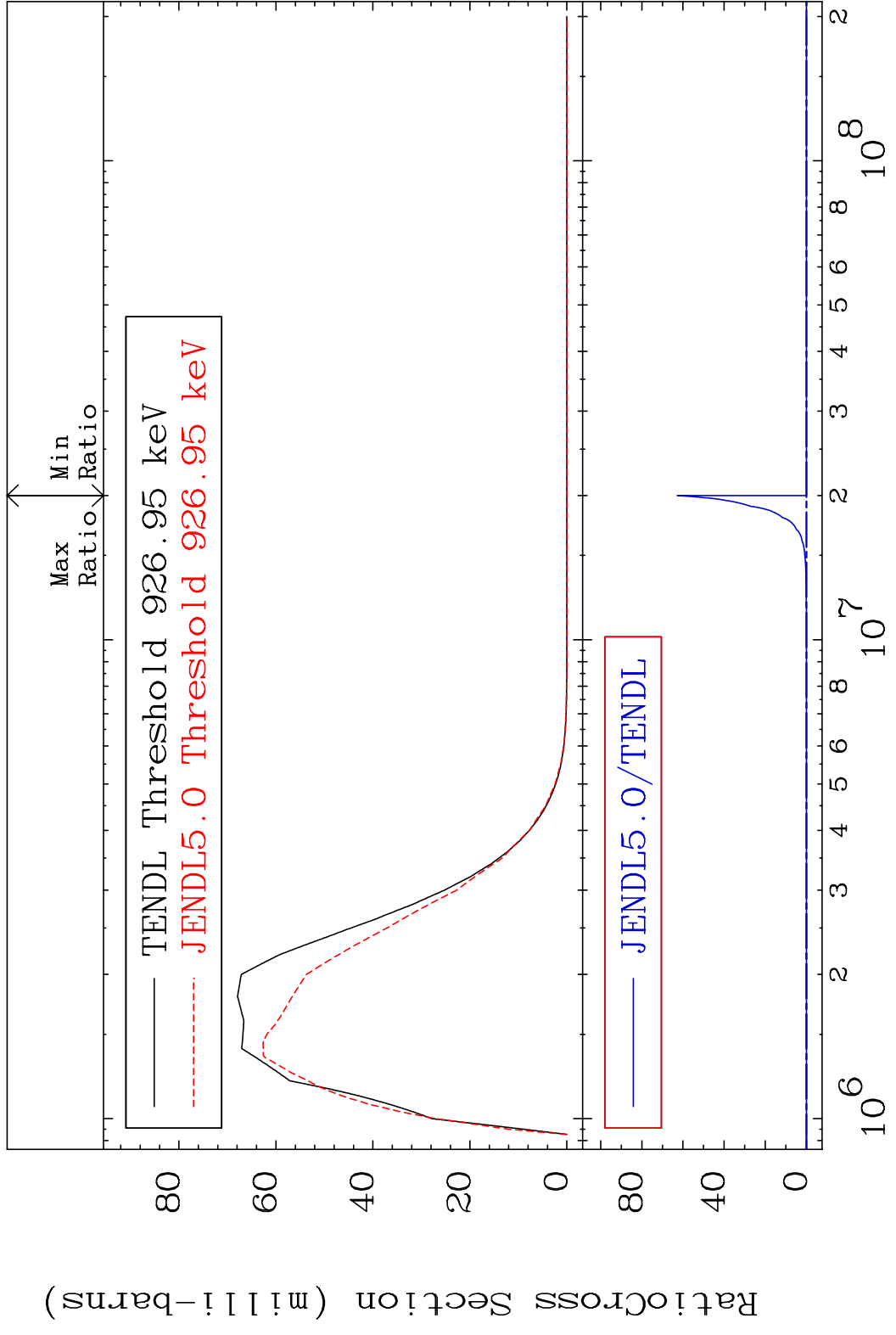


MAT 5053 MT= 55 (n, n') Level 50-Sn-121m  
 Cross Section -100.0 To 9999. %



14 Incident Energy (eV) 50-Sn-121m

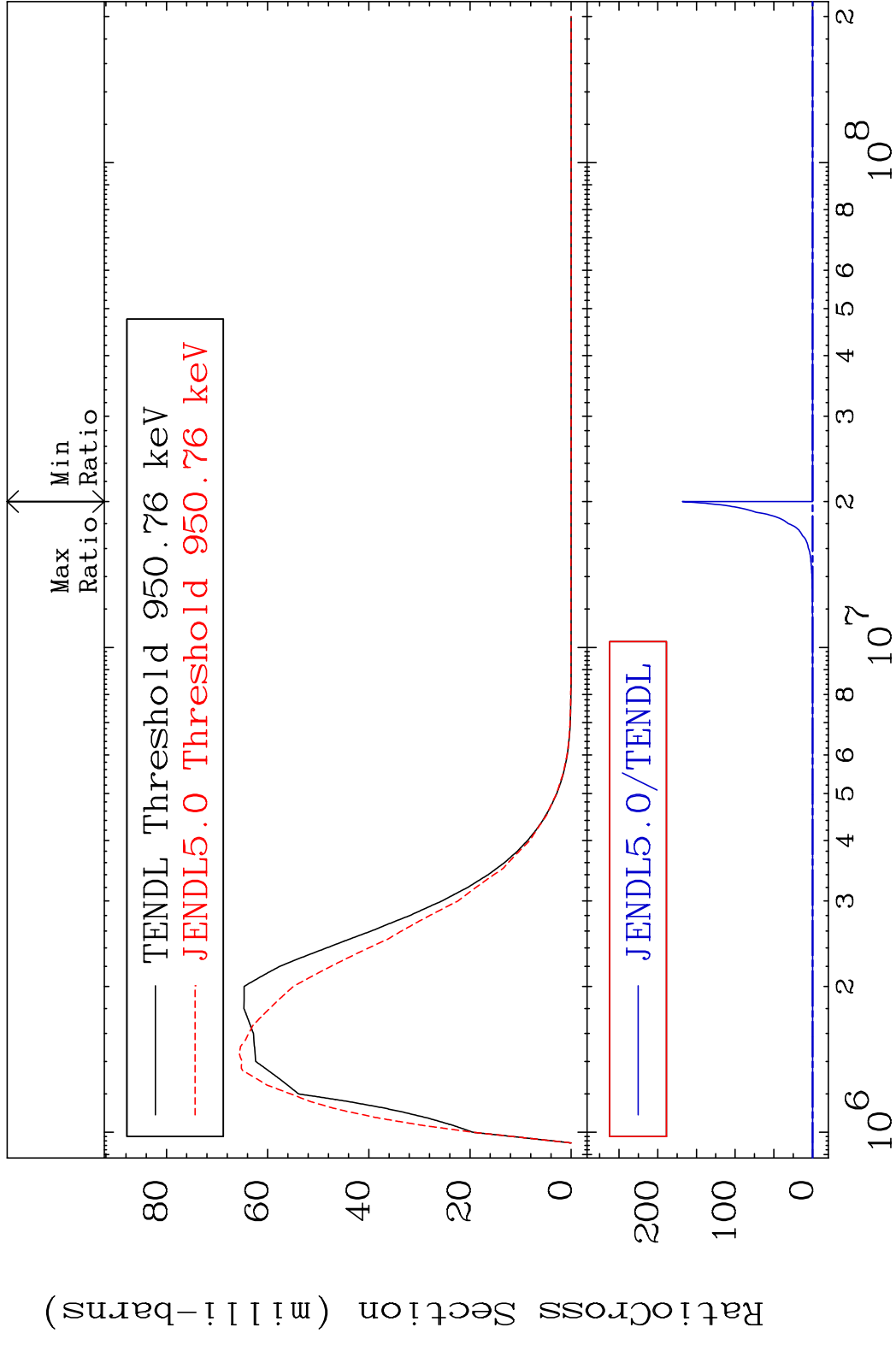
MAT 5053 MT= 56 (n, n') Level 50-Sn-121m  
 Cross Section -100.0 To 9999. %



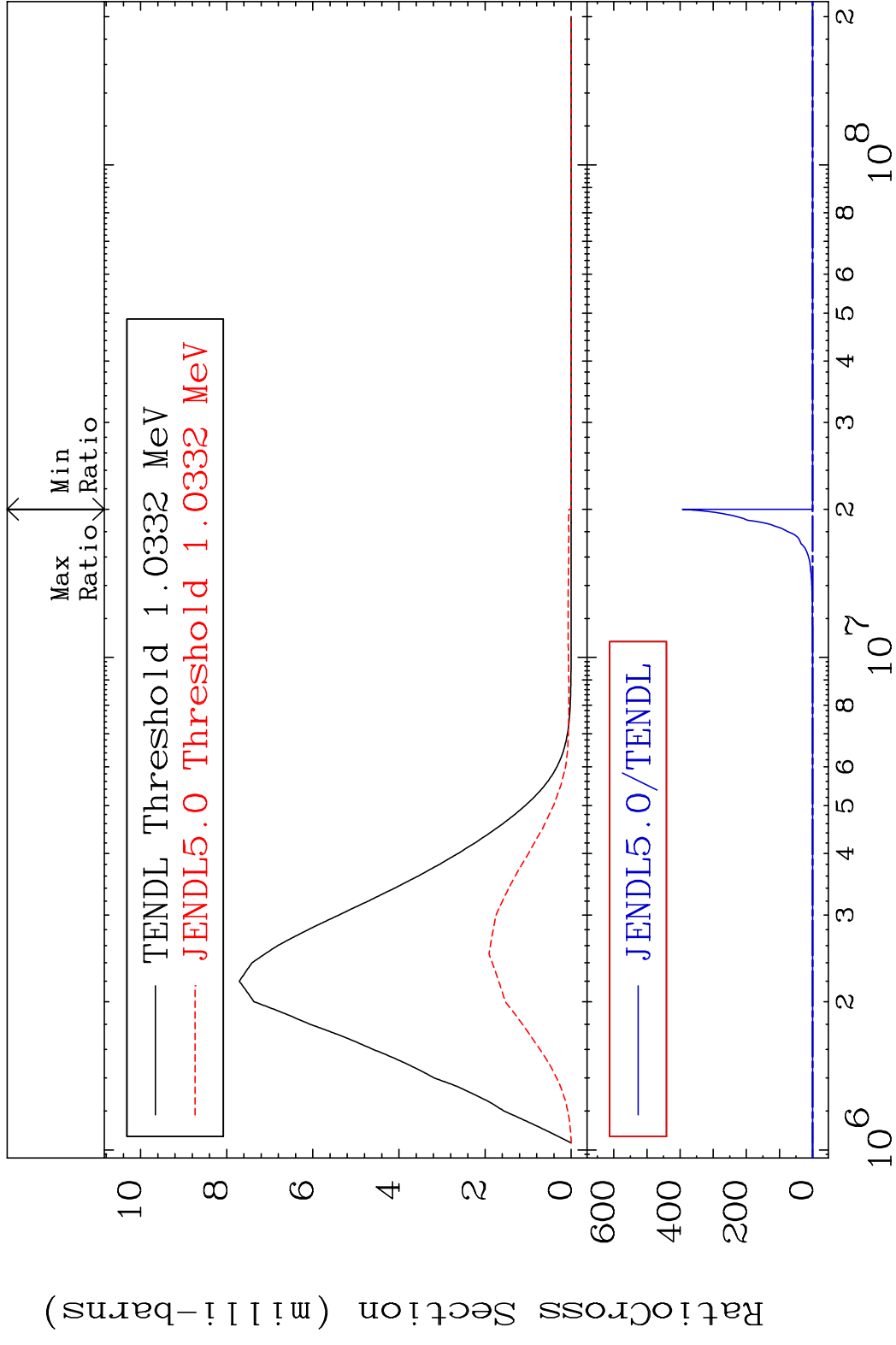
15 Incident Energy (eV) 50-Sn-121m



MAT 5053 MT= 57 (n, n') Level 50-Sn-121m  
 Cross Section -100.0 To 9999. %

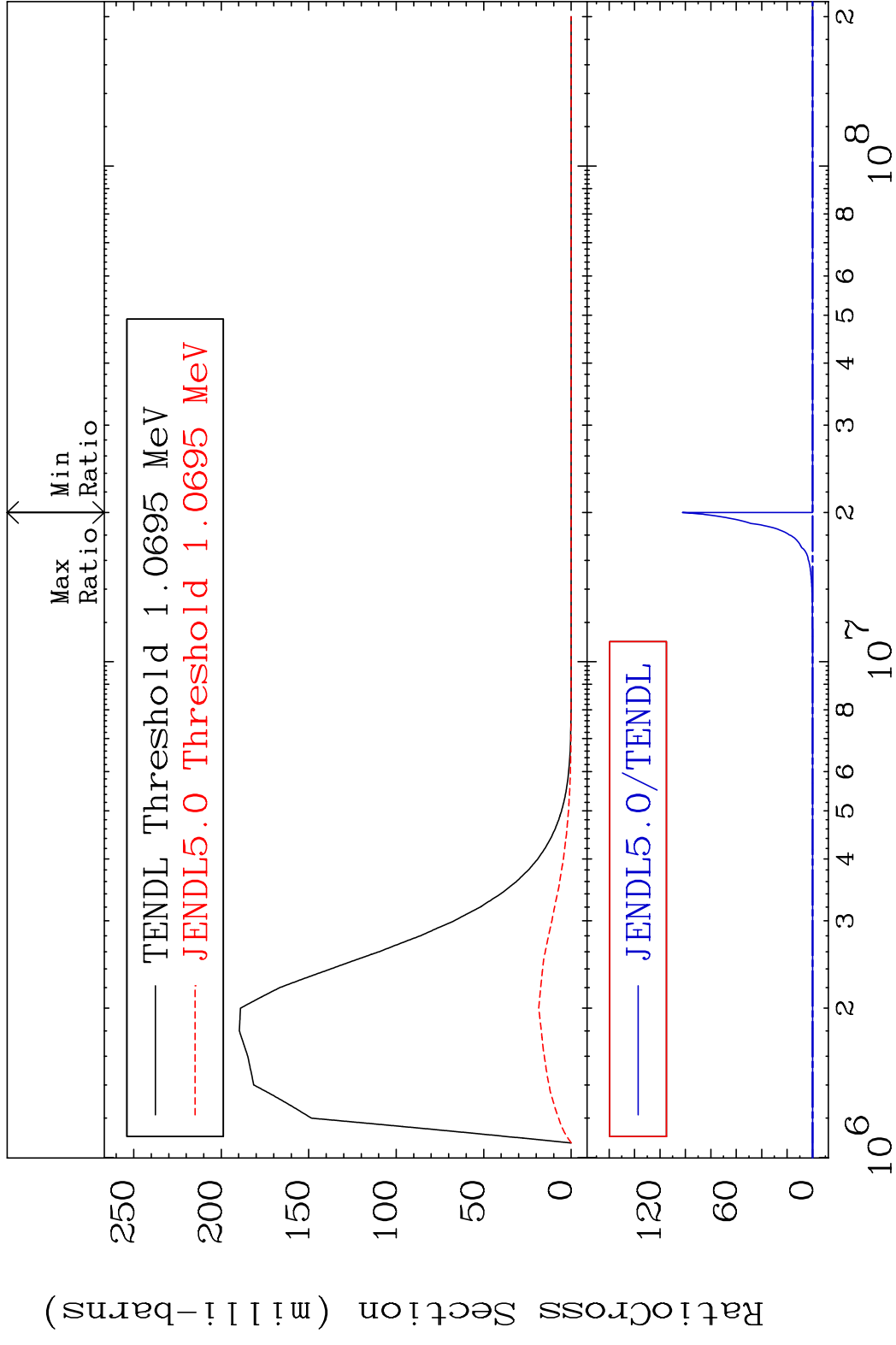


MAT 5053 MT= 58 (n, n') Level 50-Sn-121m  
 Cross Section -100.0 To 9999. %



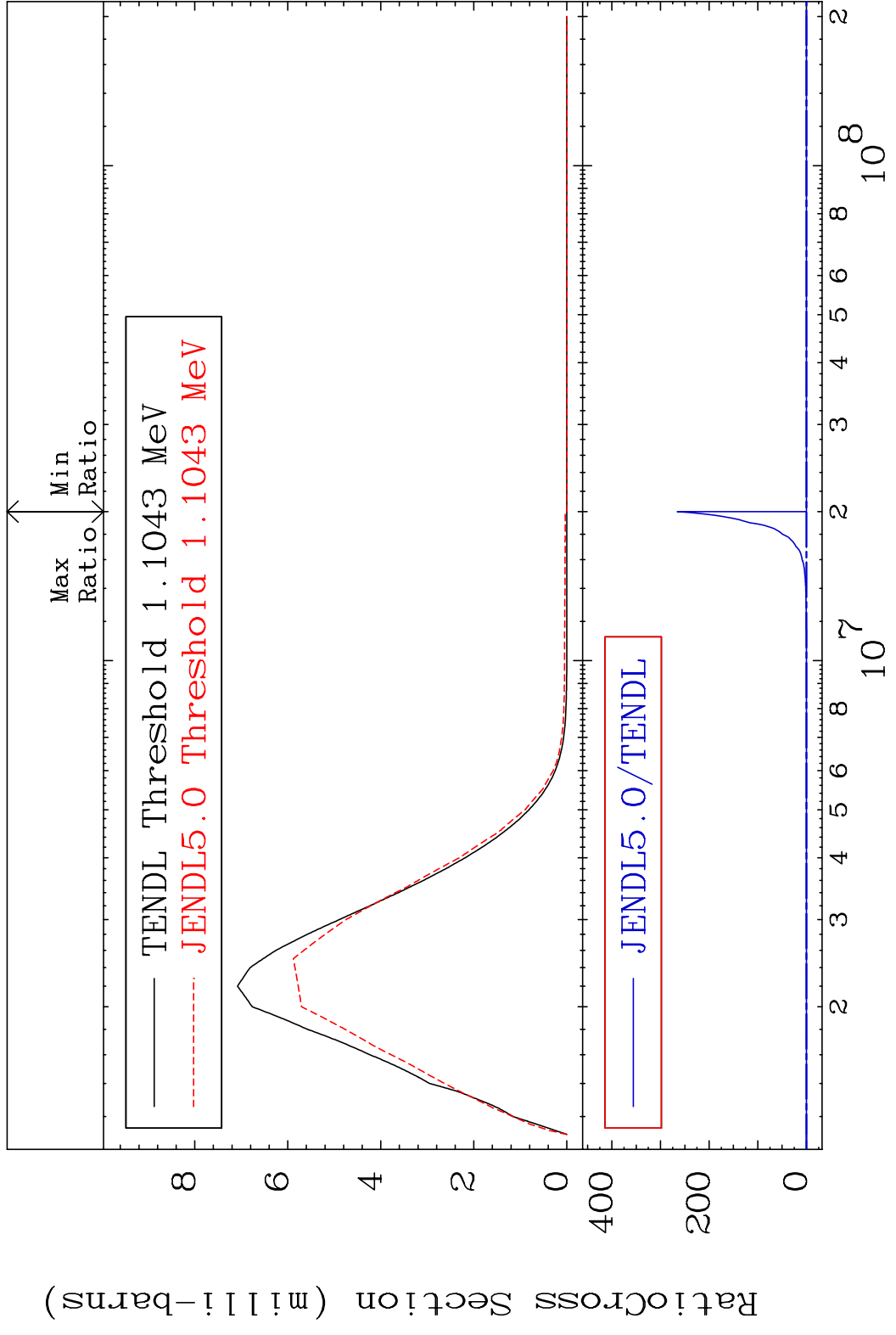
17 Incident Energy (eV) 50-Sn-121m

MAT 5053 MT= 59 (n, n') Level 50-Sn-121m  
 Cross Section -100.0 To 9999. %

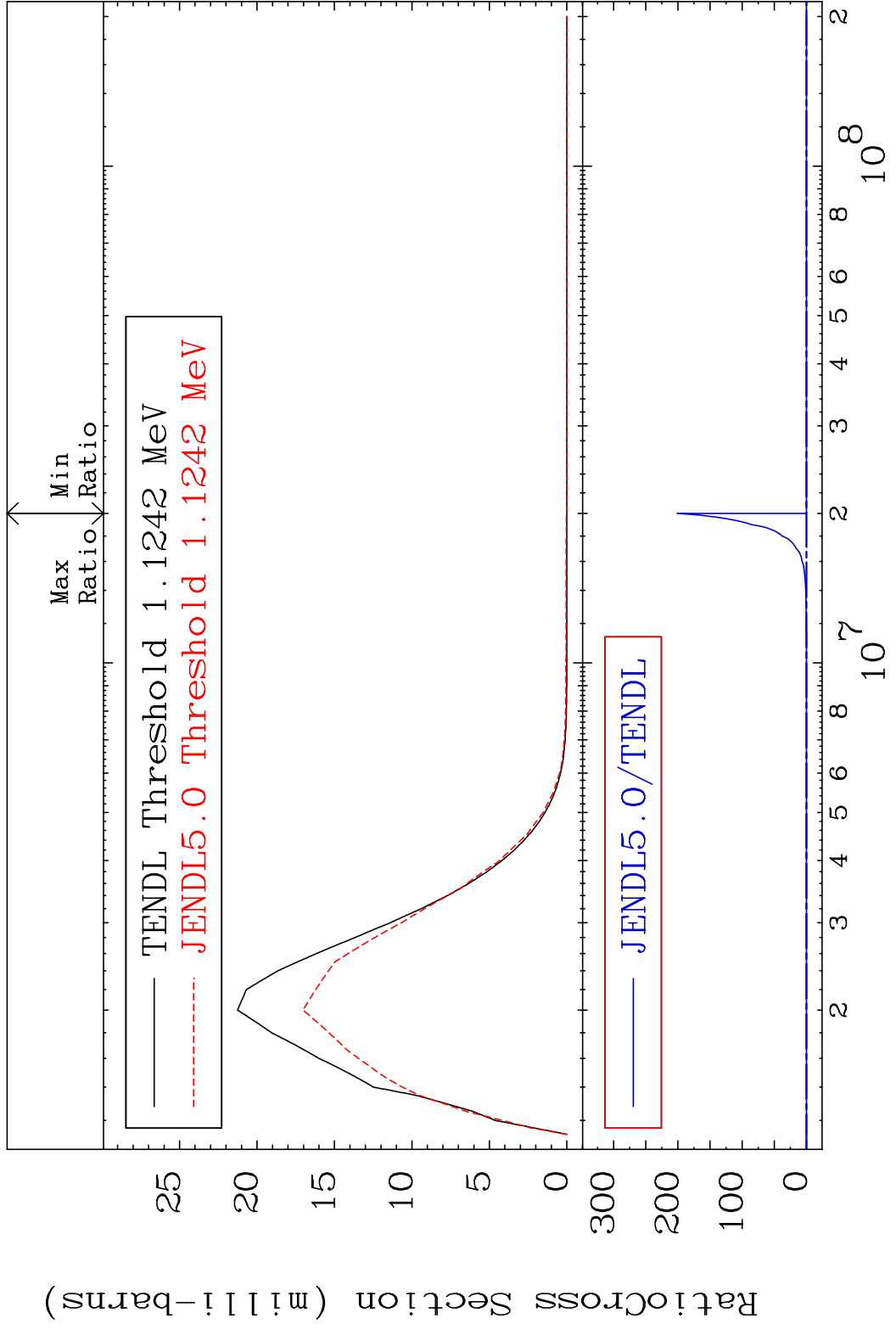


18 Incident Energy (eV) 50-Sn-121m

MAT 5053 MT= 60 (n, n') Level 50-Sn-121m  
 Cross Section -100.0 To 9999. %

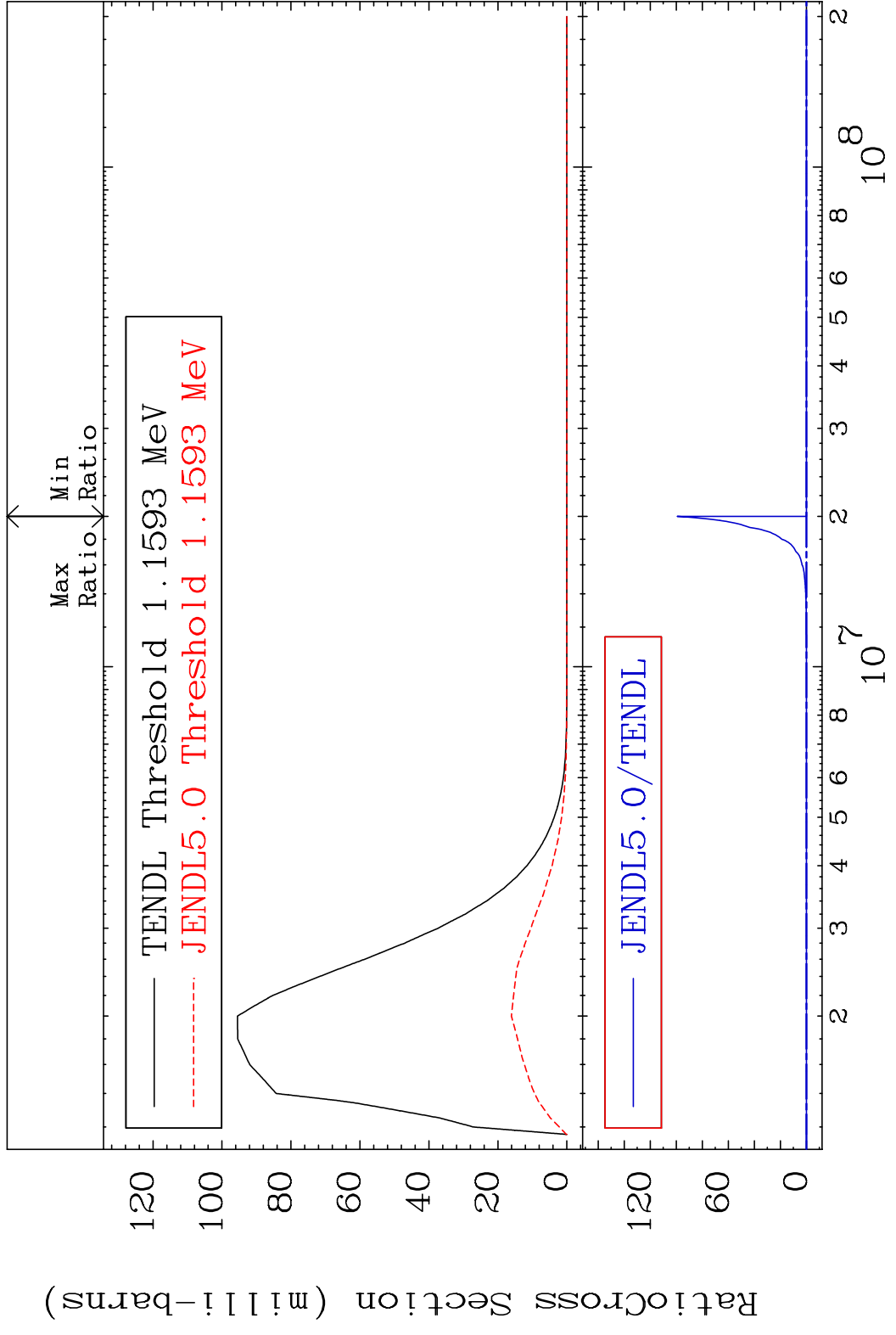


MAT 5053 MT= 61 (n, n') Level 50-Sn-121m  
 Cross Section -100.0 To 9999. %

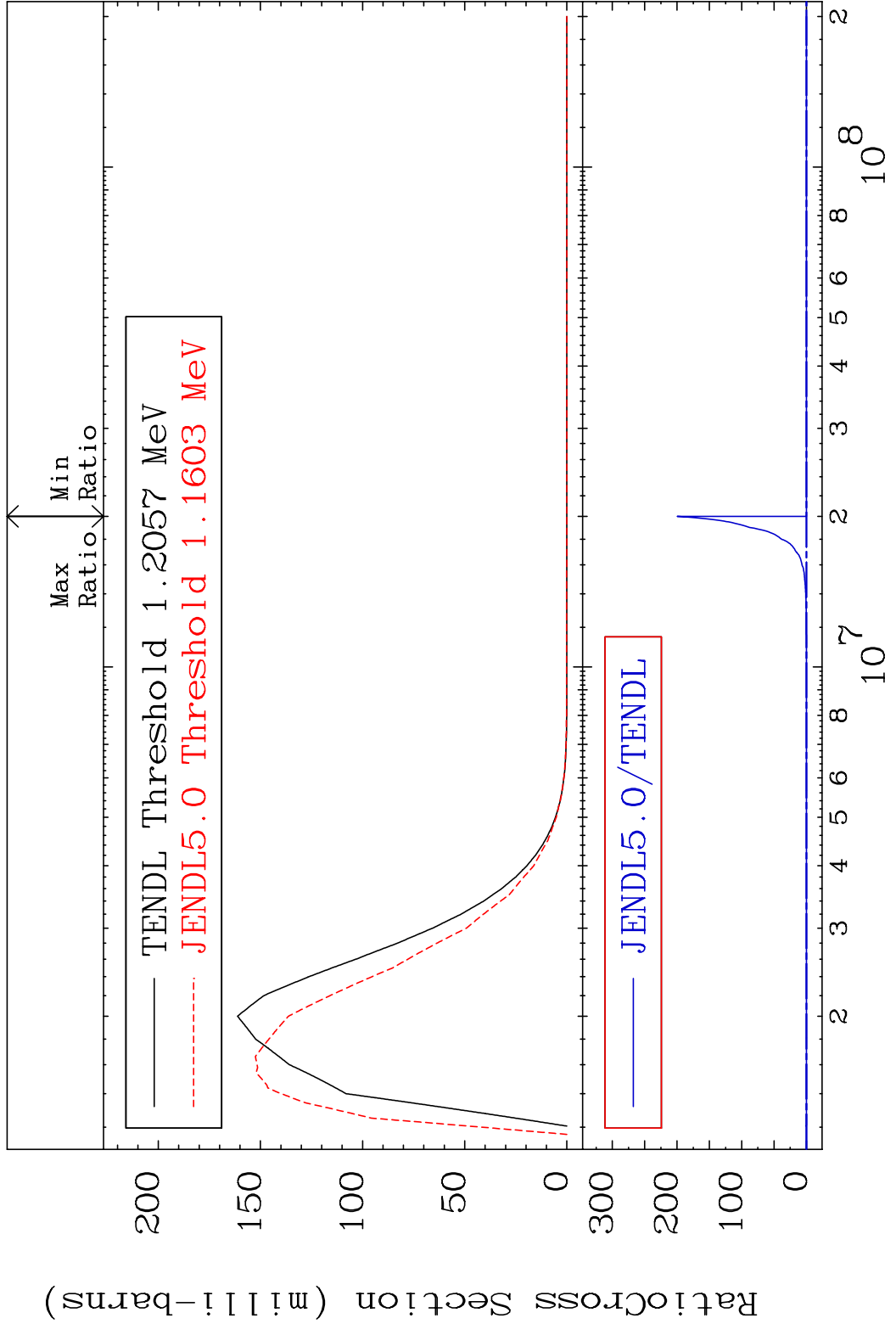


20 Incident Energy (eV) 50-Sn-121m

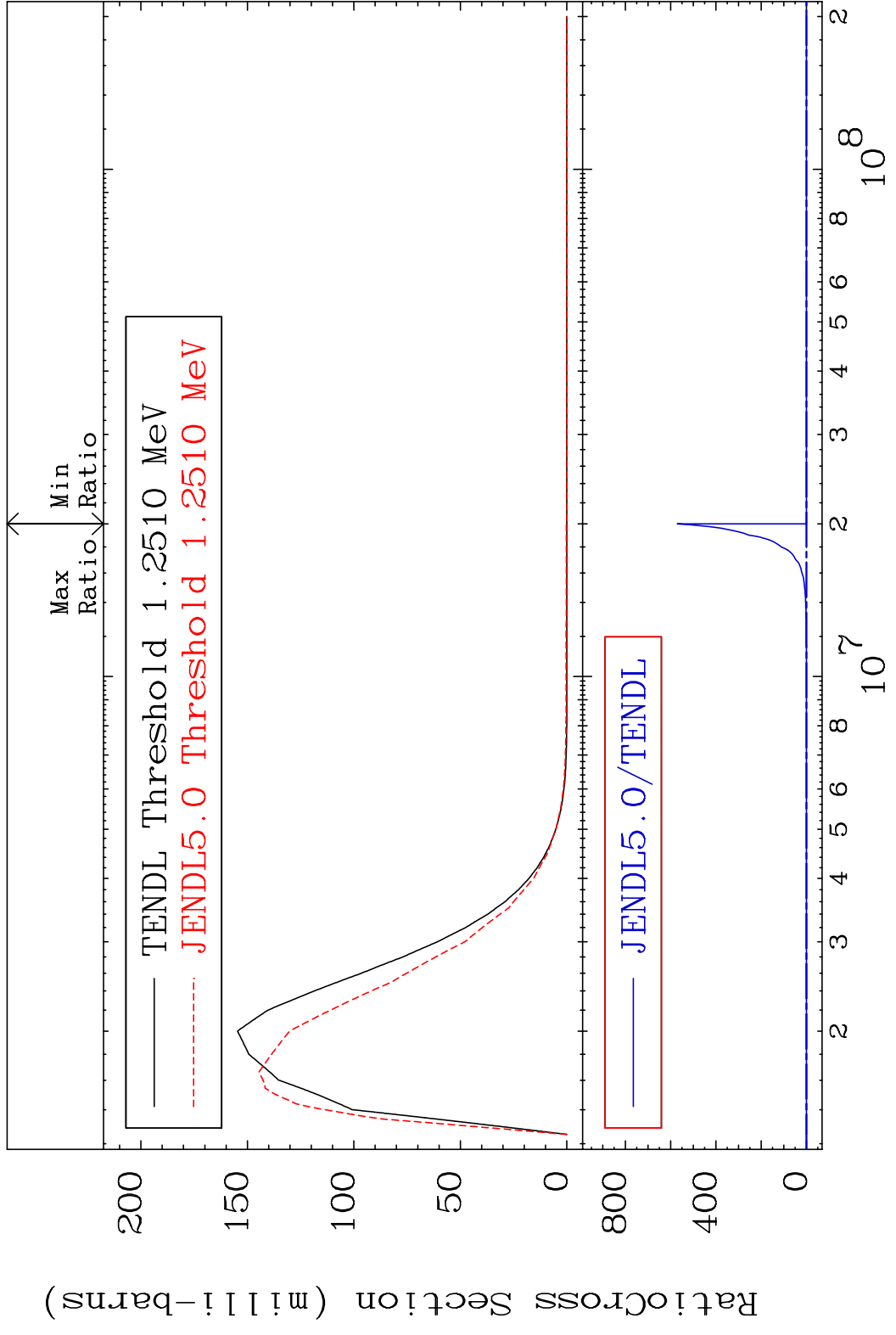
MAT 5053 MT= 62 (n, n') Level 50-Sn-121m  
 Cross Section -100.0 To 9999. %



MAT 5053 MT= 63 (n, n') Level 50-Sn-121m  
 Cross Section -100.0 To 9999. %

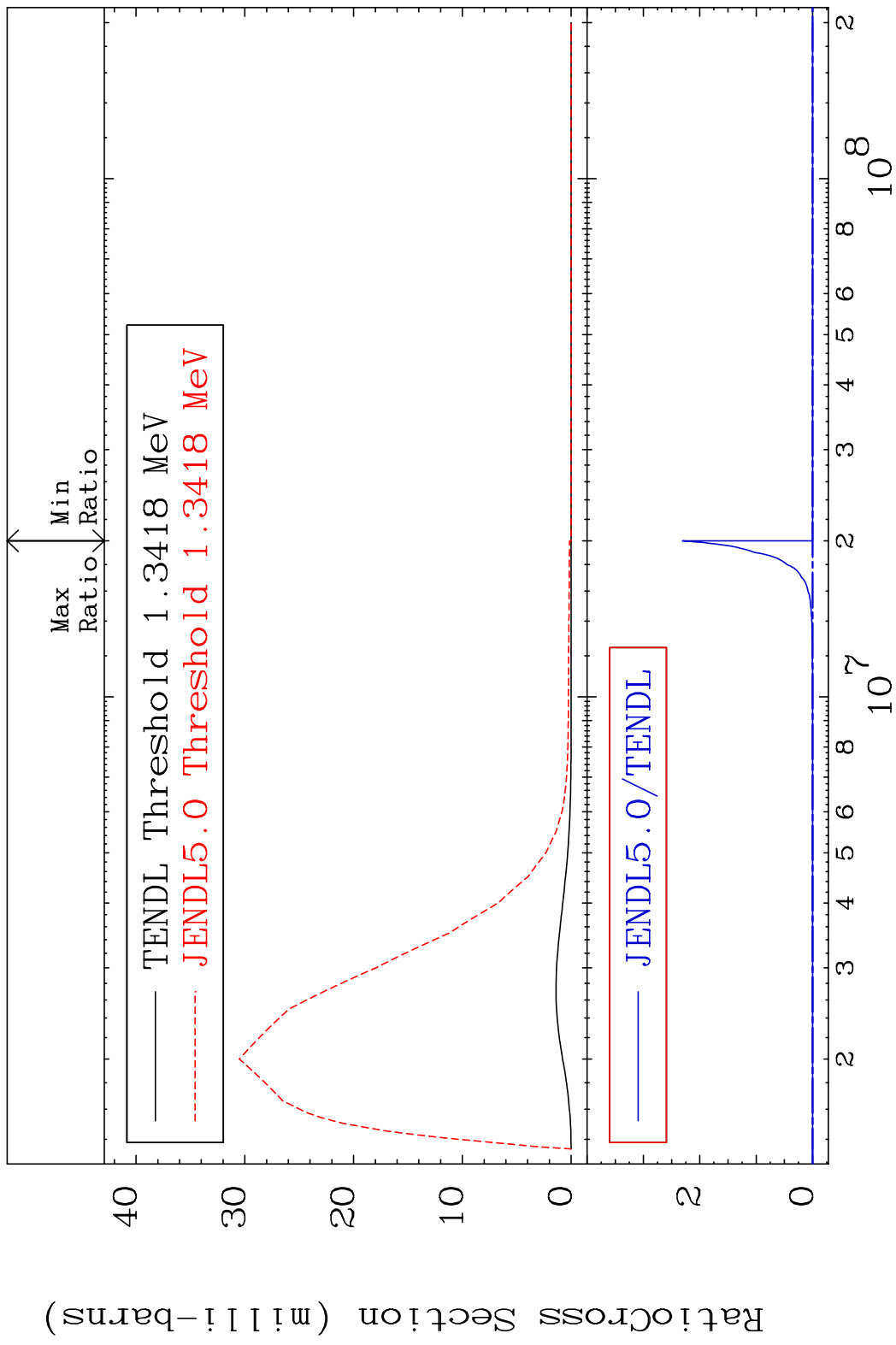


MAT 5053 MT= 64 (n, n') Level 50-Sn-121m  
 Cross Section -100.0 To 9999. %



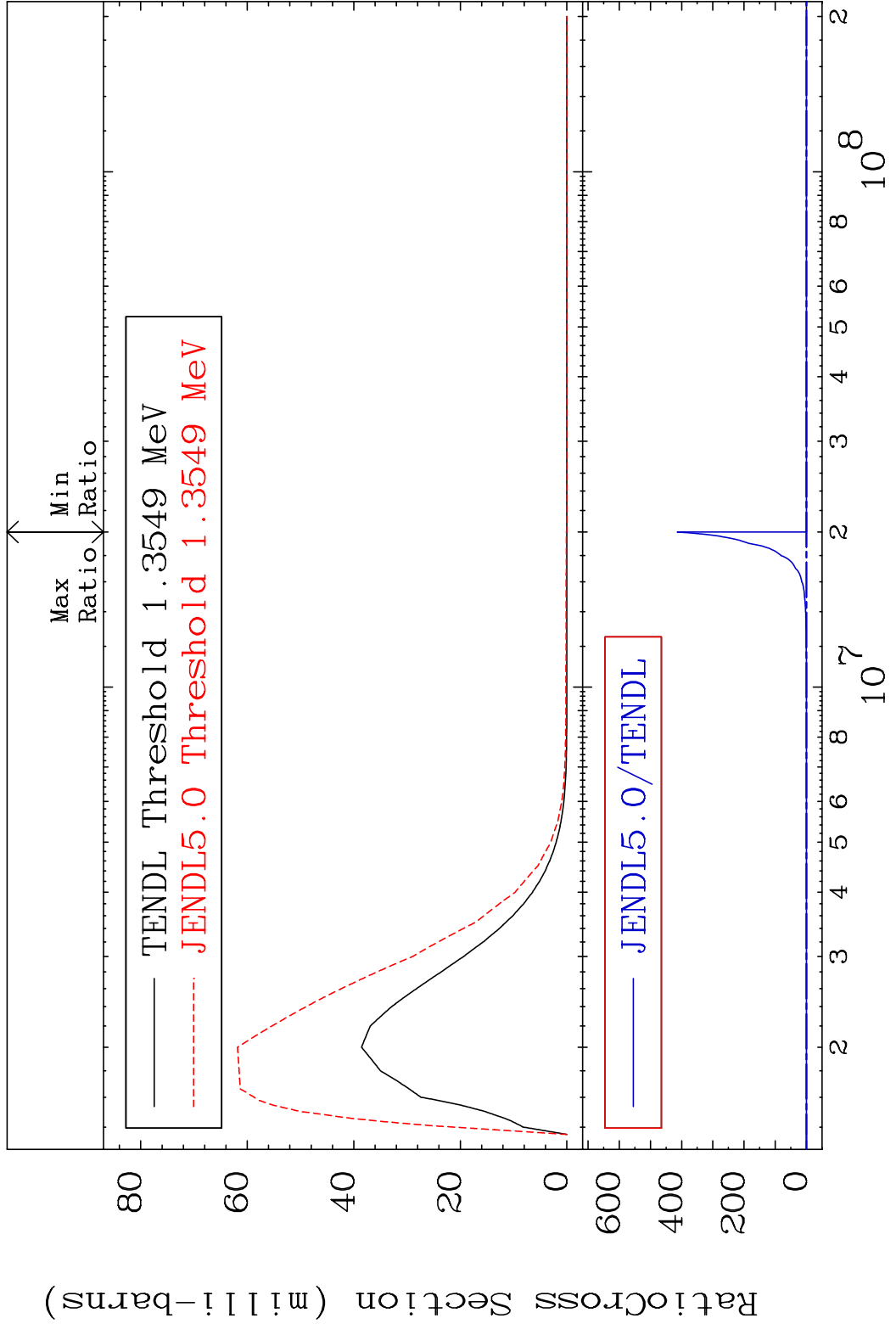


MAT 5053 MT= 65 (n, n') Level 50-Sn-121m  
 Cross Section -100.0 To 9999. %

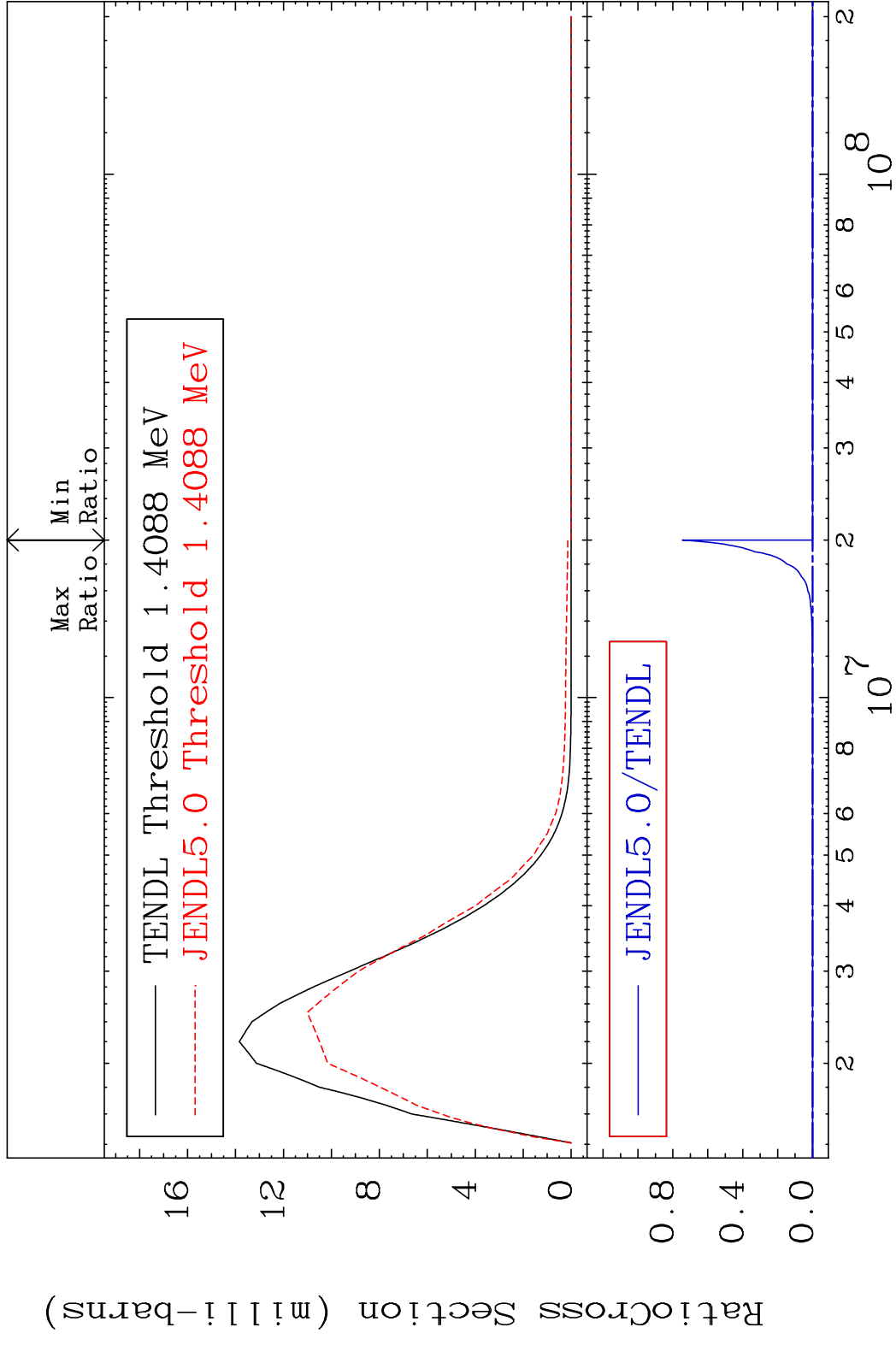


24 Incident Energy (eV) 50-Sn-121m

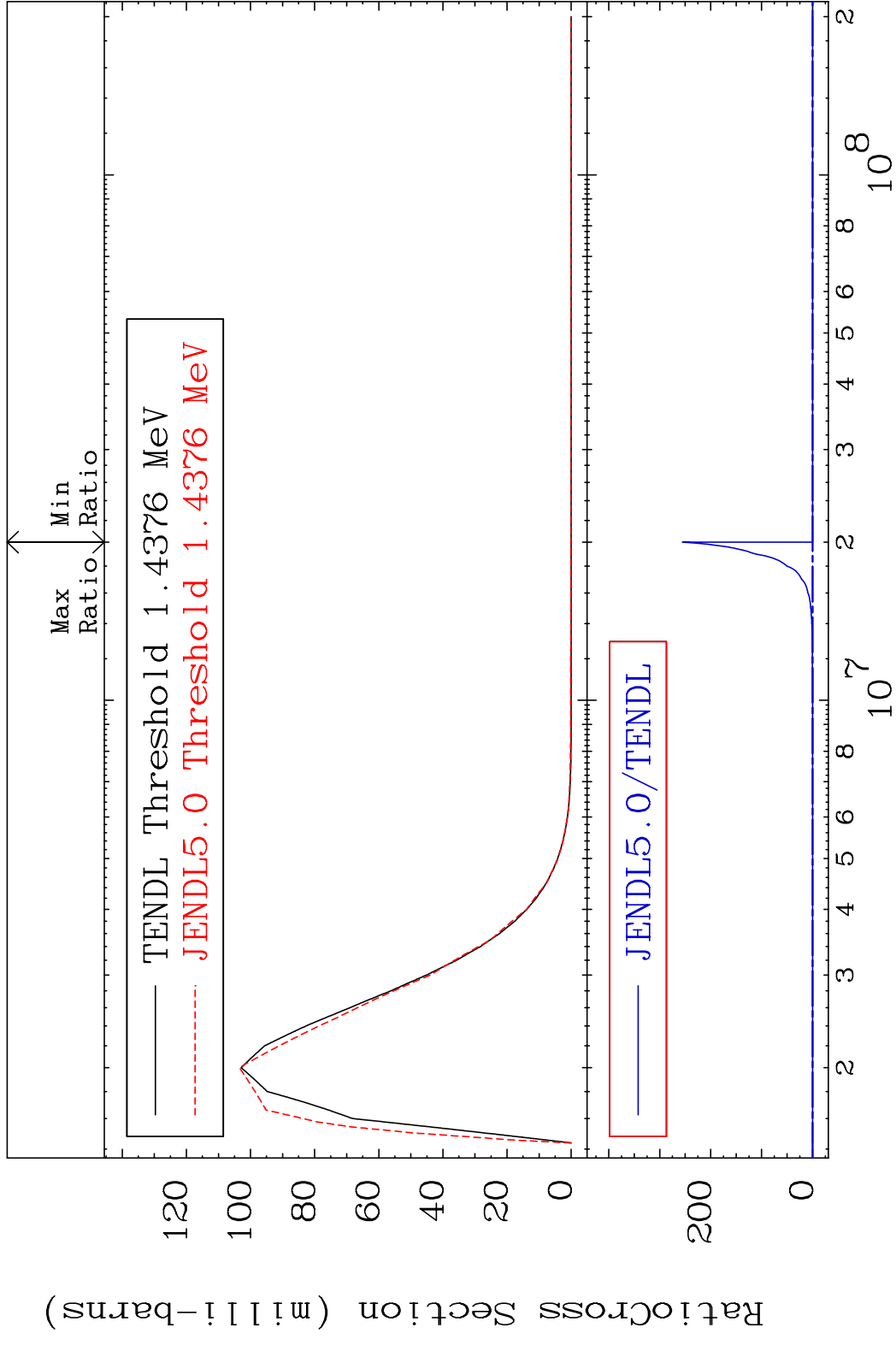
MAT 5053 MT= 66 (n, n') Level 50-Sn-121m  
 Cross Section -100.0 To 9999. %



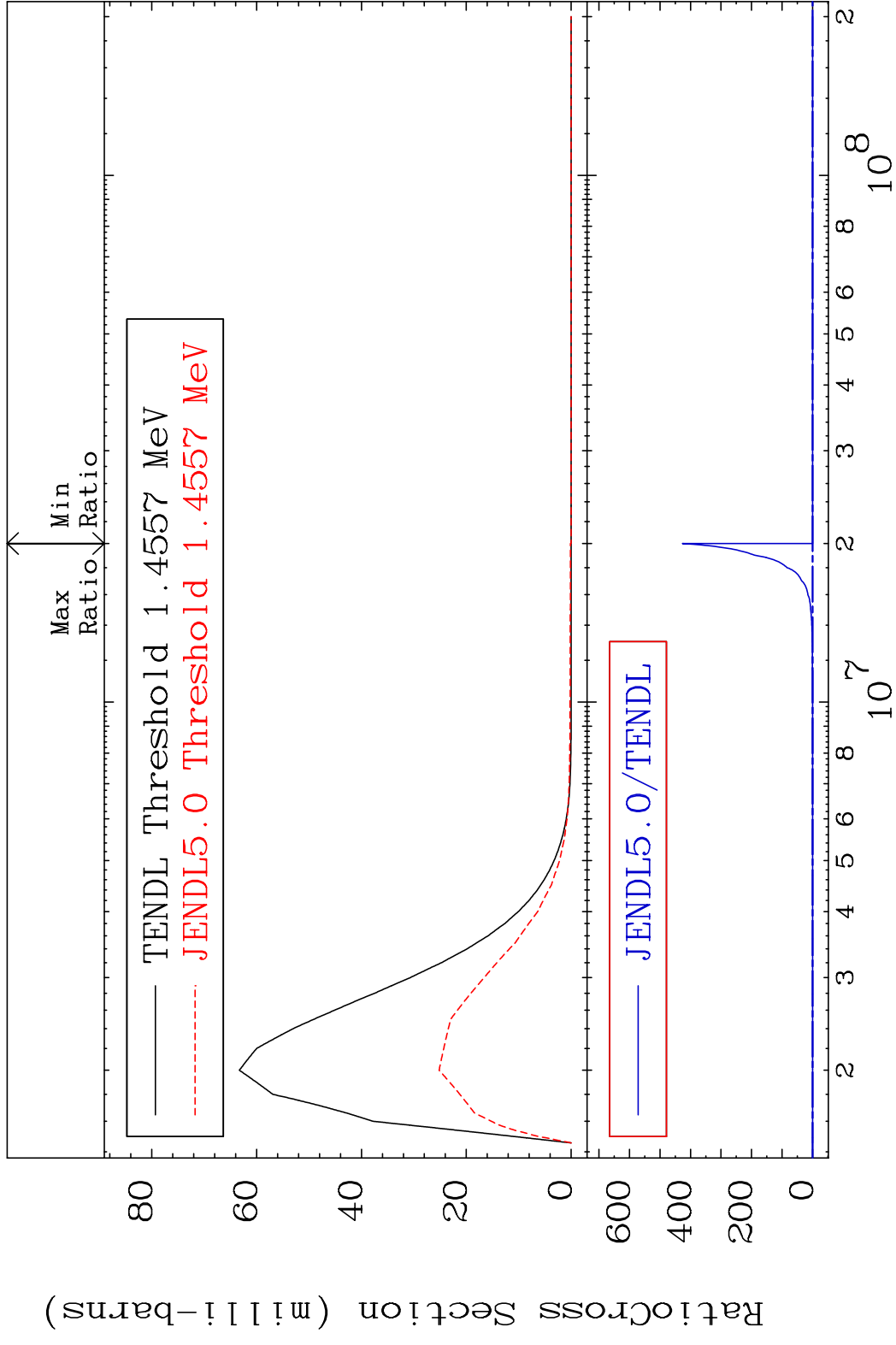
MAT 5053 MT= 67 (n, n') Level 50-Sn-121m  
 Cross Section -100.0 To 9999. %



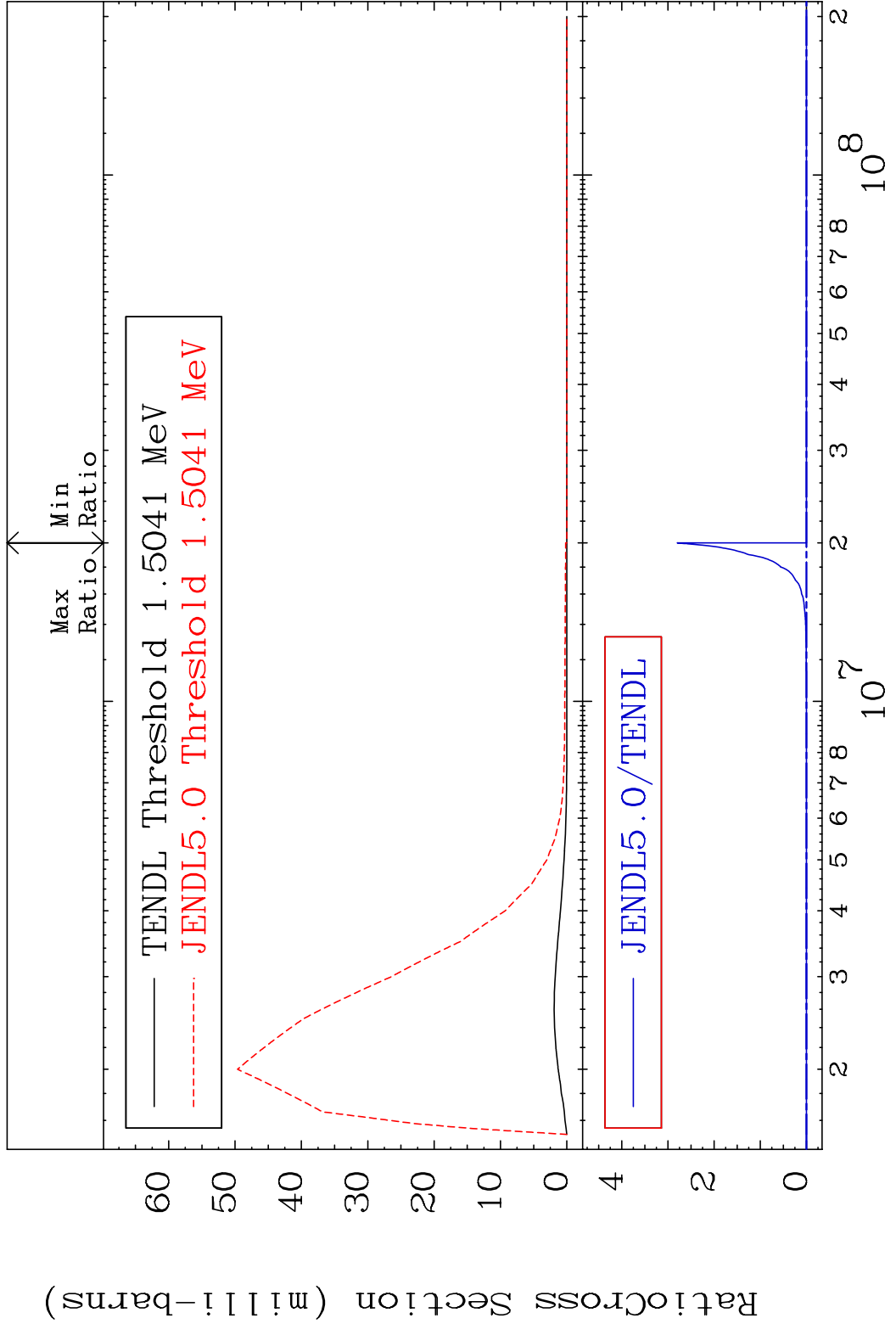
MAT 5053 MT= 68 (n, n') Level 50-Sn-121m  
 Cross Section -100.0 To 9999. %



MAT 5053 MT= 69 (n, n') Level 50-Sn-121m  
 Cross Section -100.0 To 9999. %

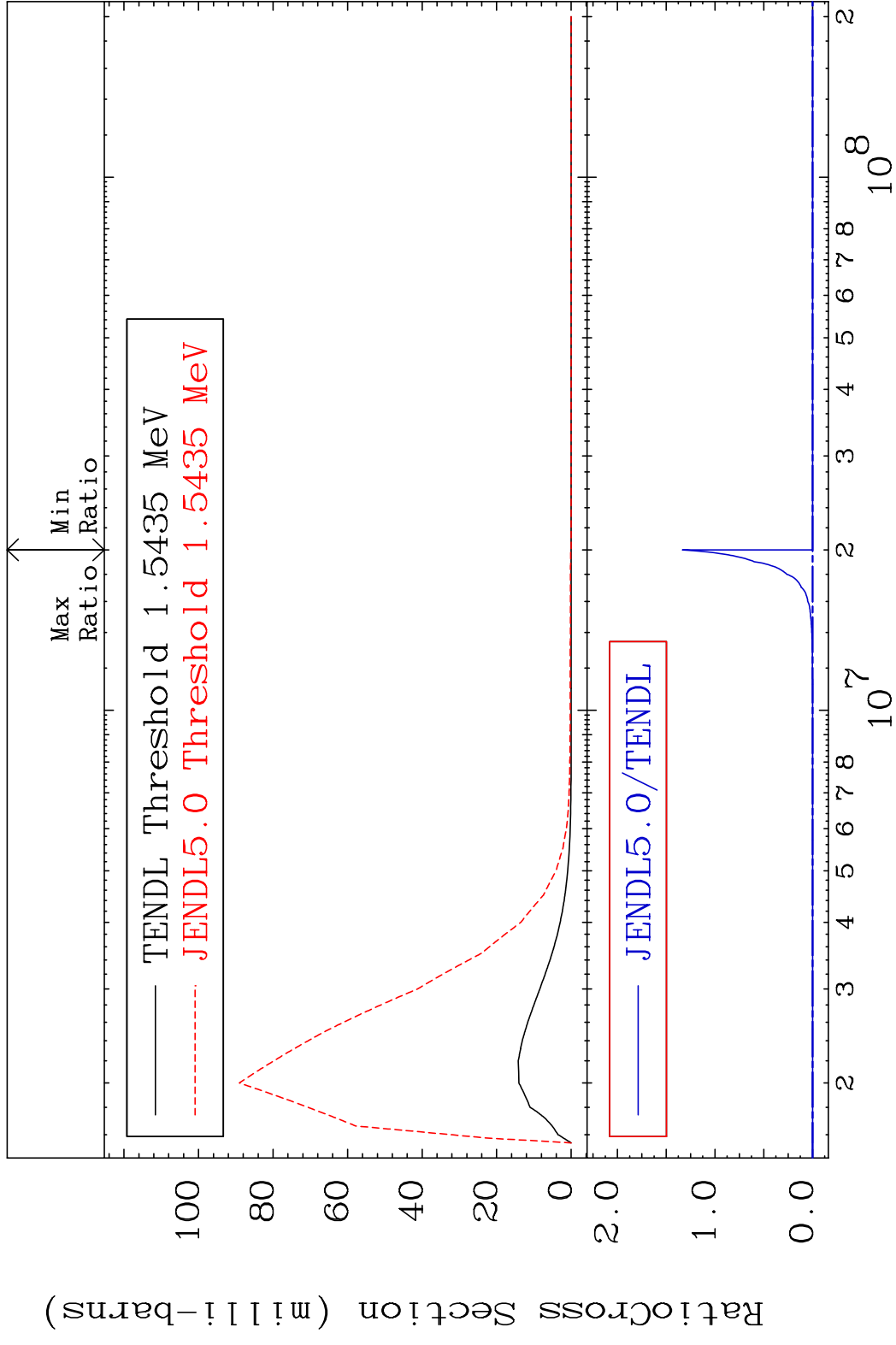


MAT 5053 MT= 70 (n, n') Level 50-Sn-121m  
 Cross Section -100.0 To 9999. %

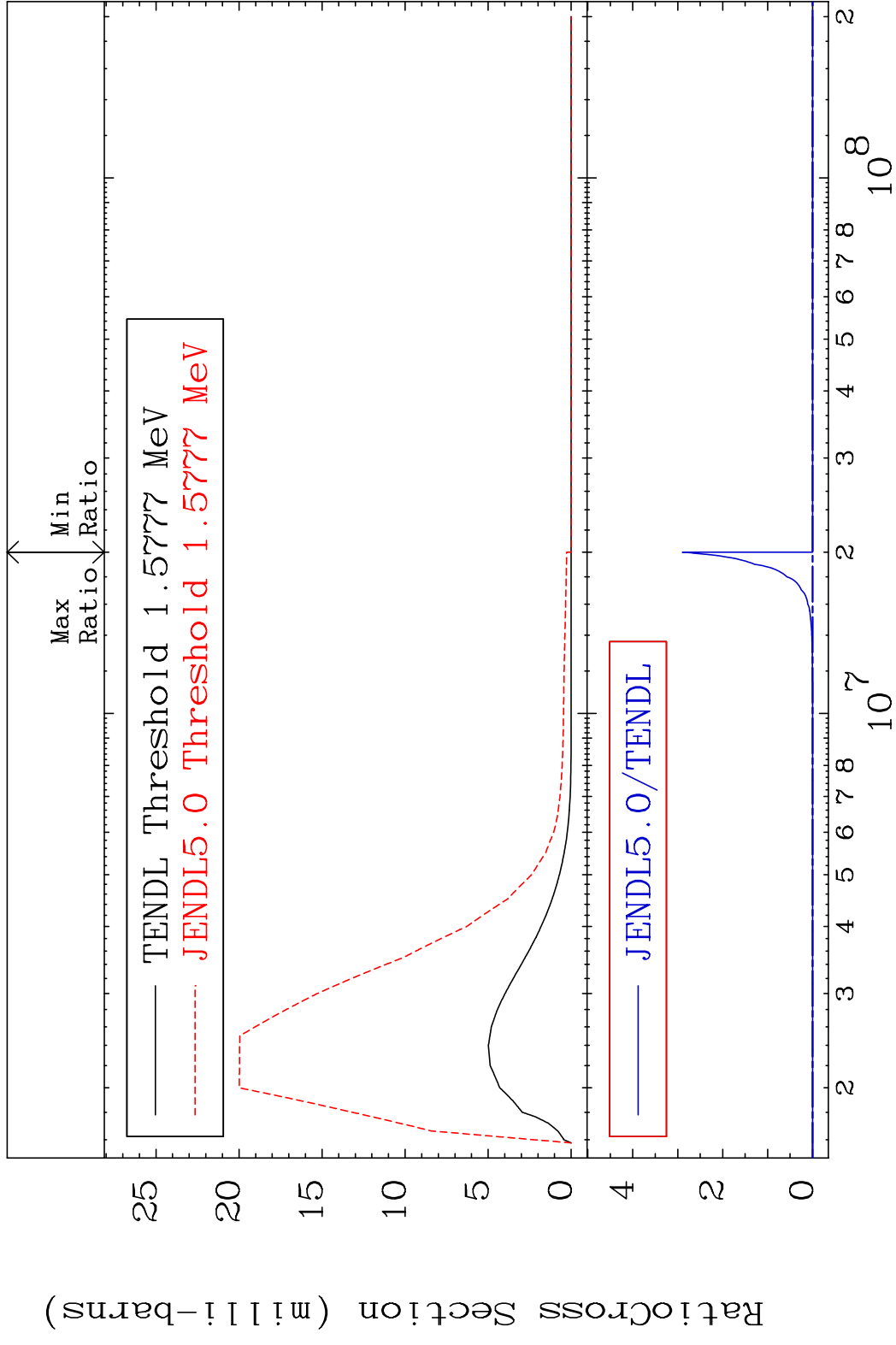


29 Incident Energy (eV) 50-Sn-121m

MAT 5053 MT= 71 (n, n') Level 50-Sn-121m  
 Cross Section -100.0 To 9999. %

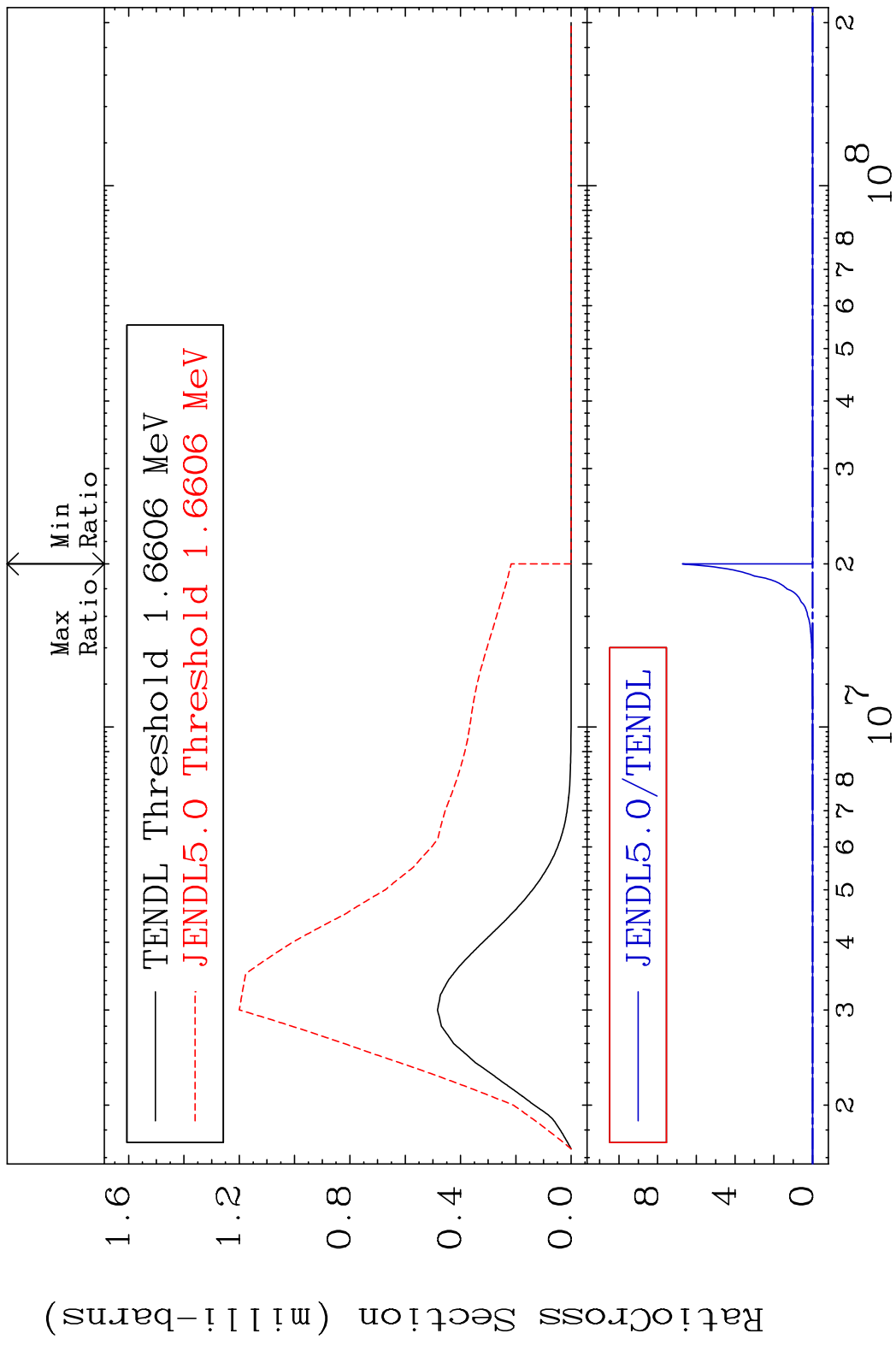


MAT 5053 MT= 72 (n, n') Level 50-Sn-121m  
 Cross Section -100.0 To 9999. %

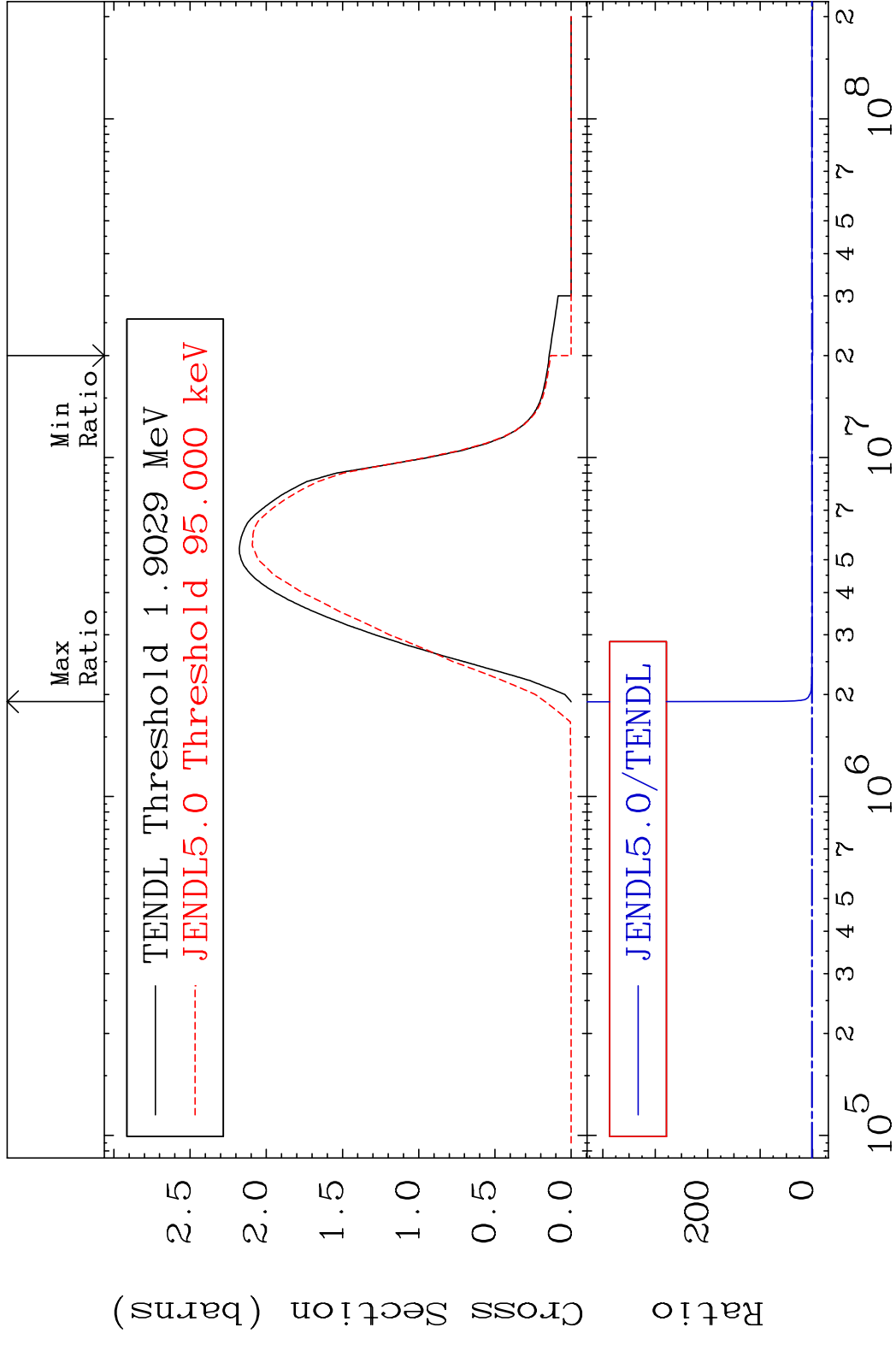




MAT 5053 MT= 73 (n, n') Level 50-Sn-121m  
 Cross Section -100.0 To 9999. %



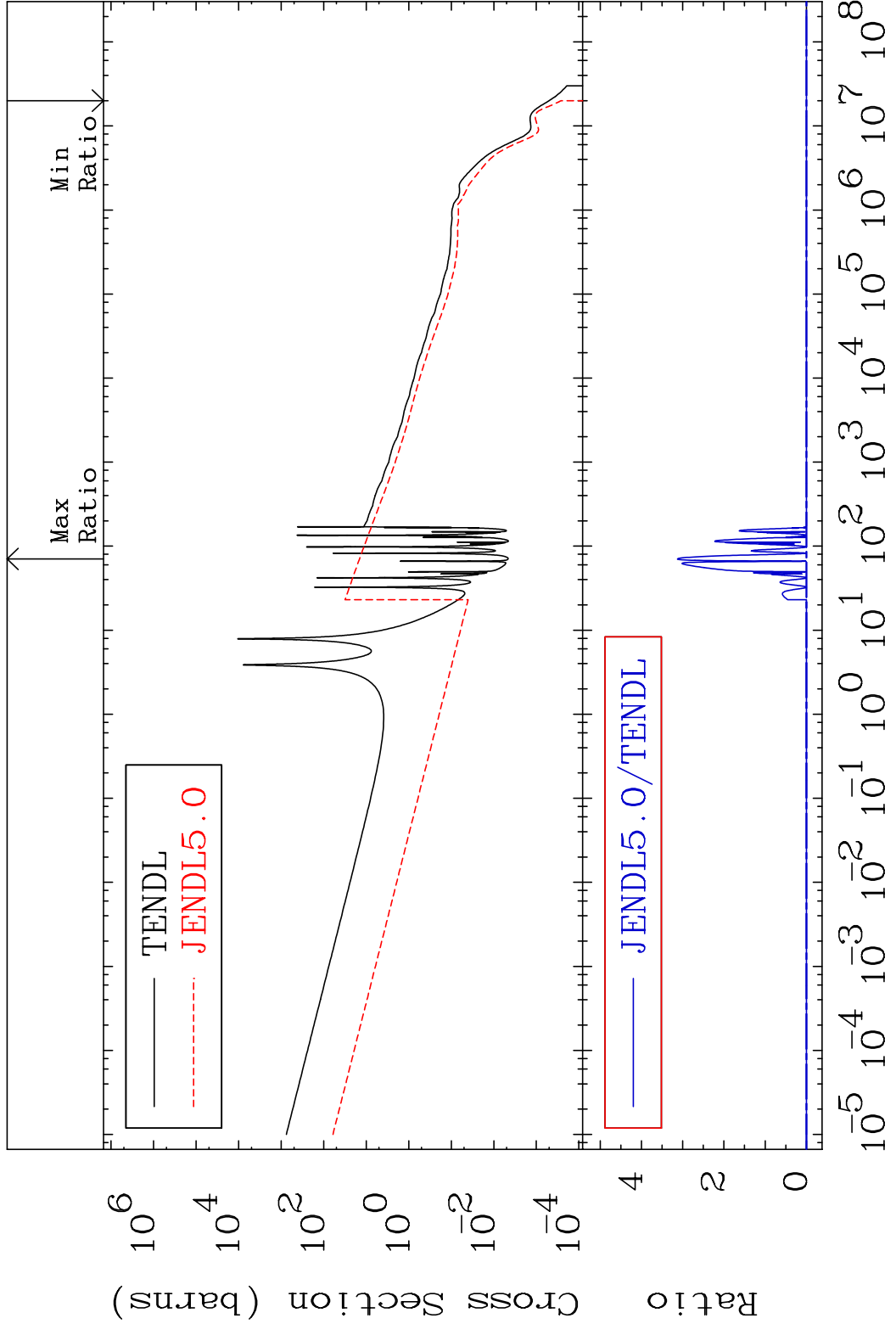
MAT 5053 (n, n') Continuum 50-Sn-121m  
 Cross Section -100.0 To 9999. %



33 Incident Energy (eV) 50-Sn-121m

MAT 5053

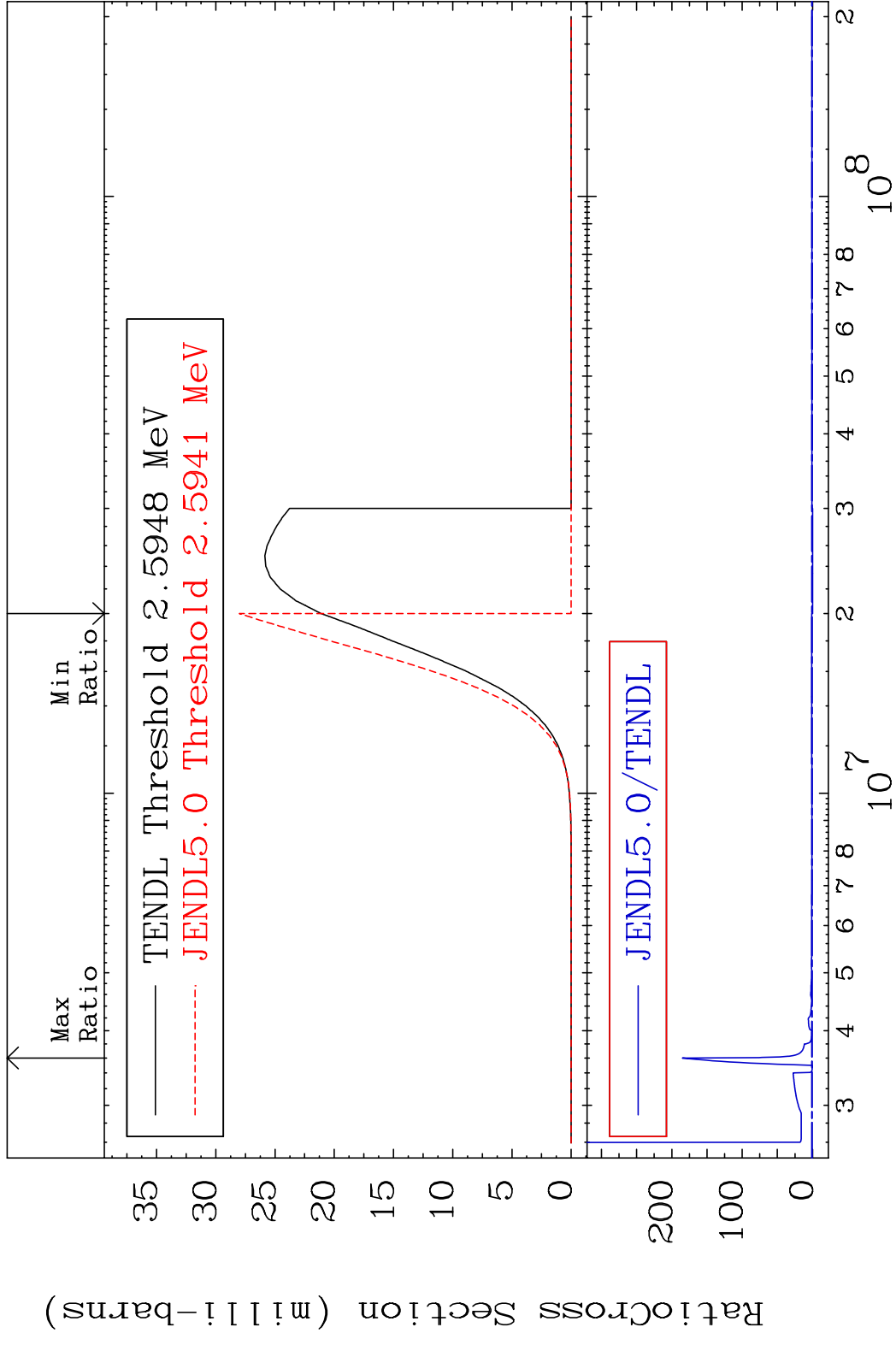
(n,  $\gamma$ )  
Cross Section -100.0 To 9999. %  
50-Sn-121m



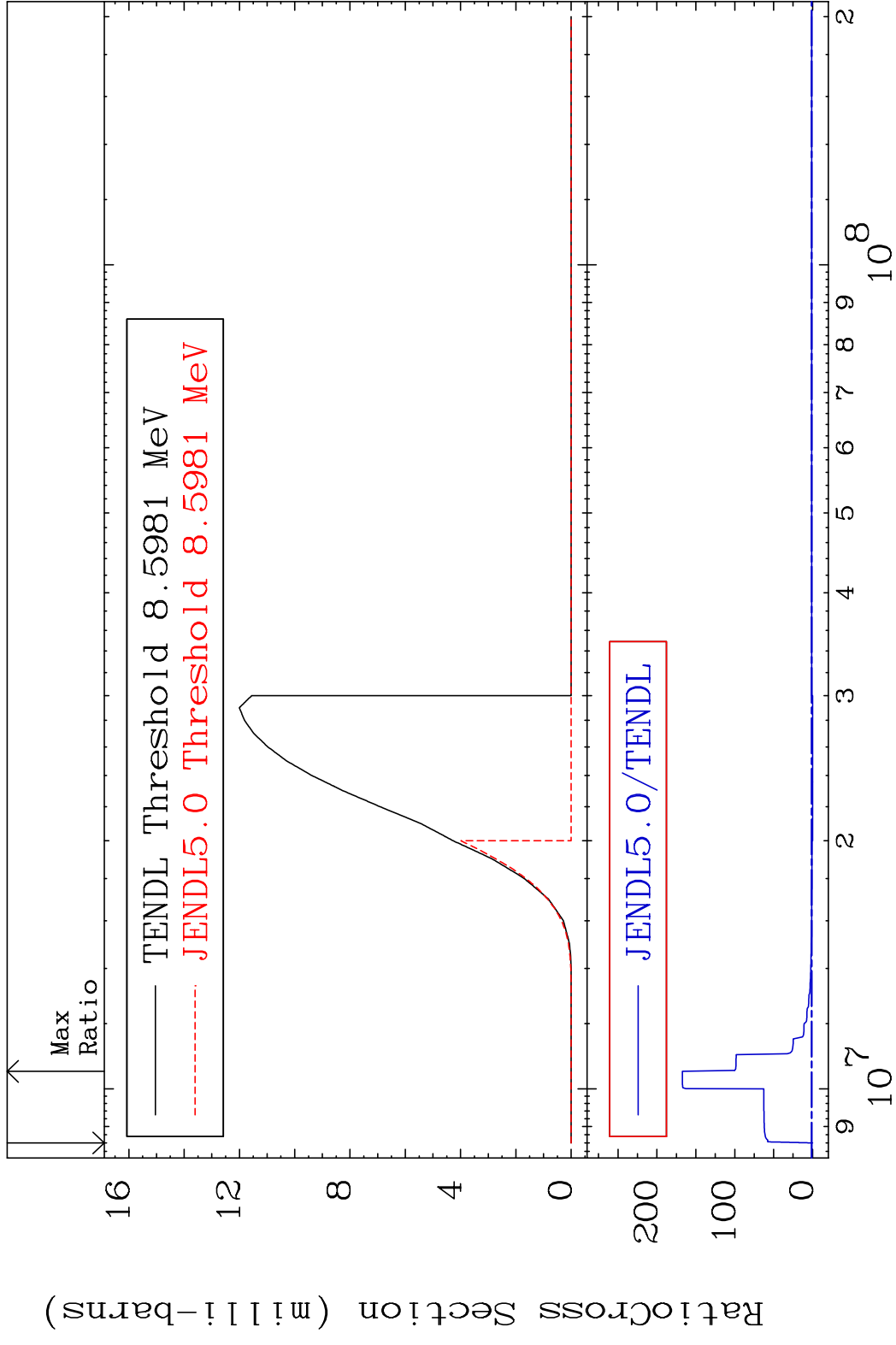
34

Incident Energy (eV) 50-Sn-121m

MAT 5053 (n,p) 50-Sn-121m  
 Cross Section -100.0 To 9999. %



MAT 5053 (n,d) 50-Sn-121m  
 Cross Section -100.0 To 9999. %

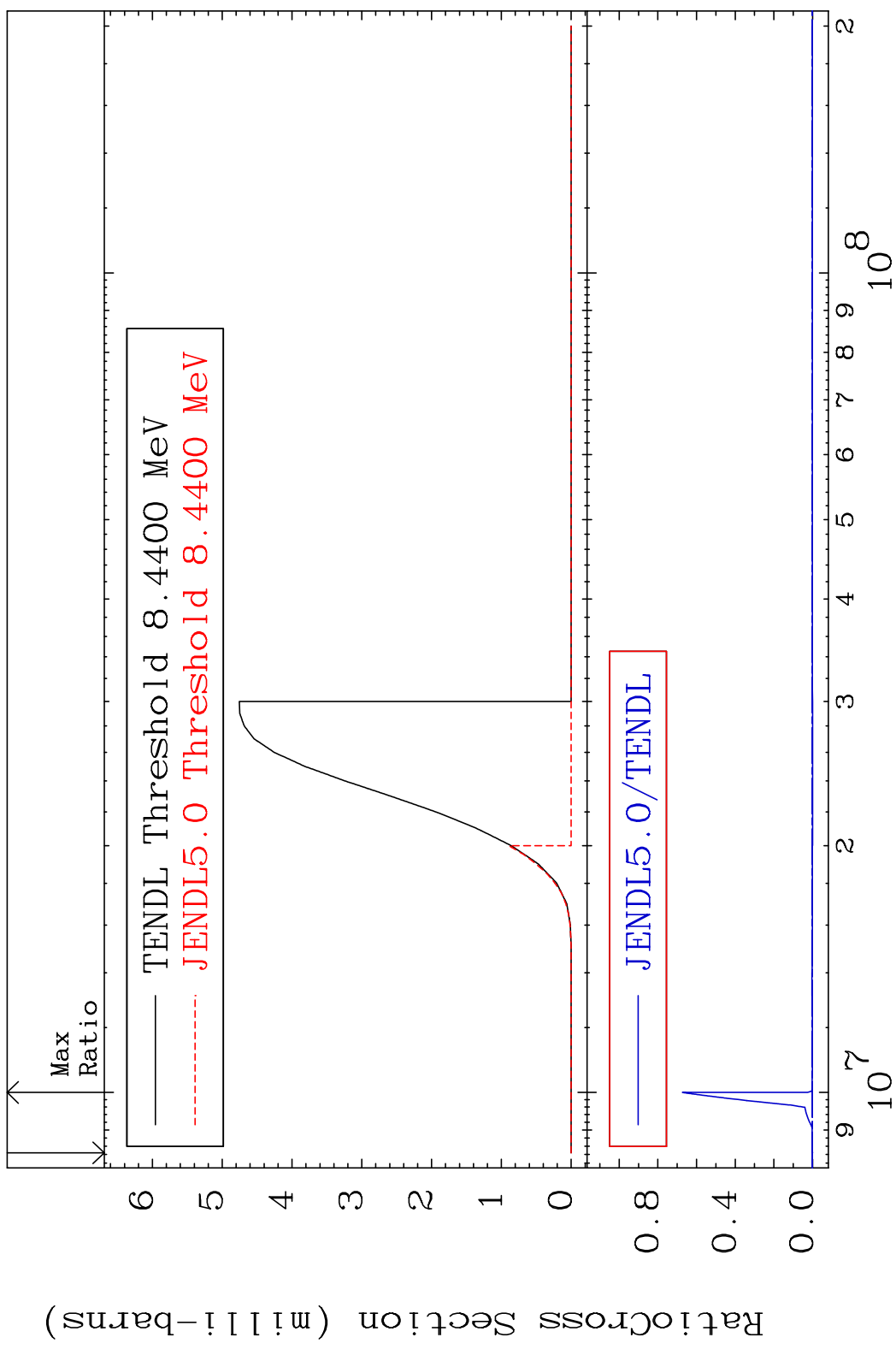


MAT 5053

(n, t)

50-Sn-121m

Cross Section -100.0 To 9999. %



37

Incident Energy (eV)

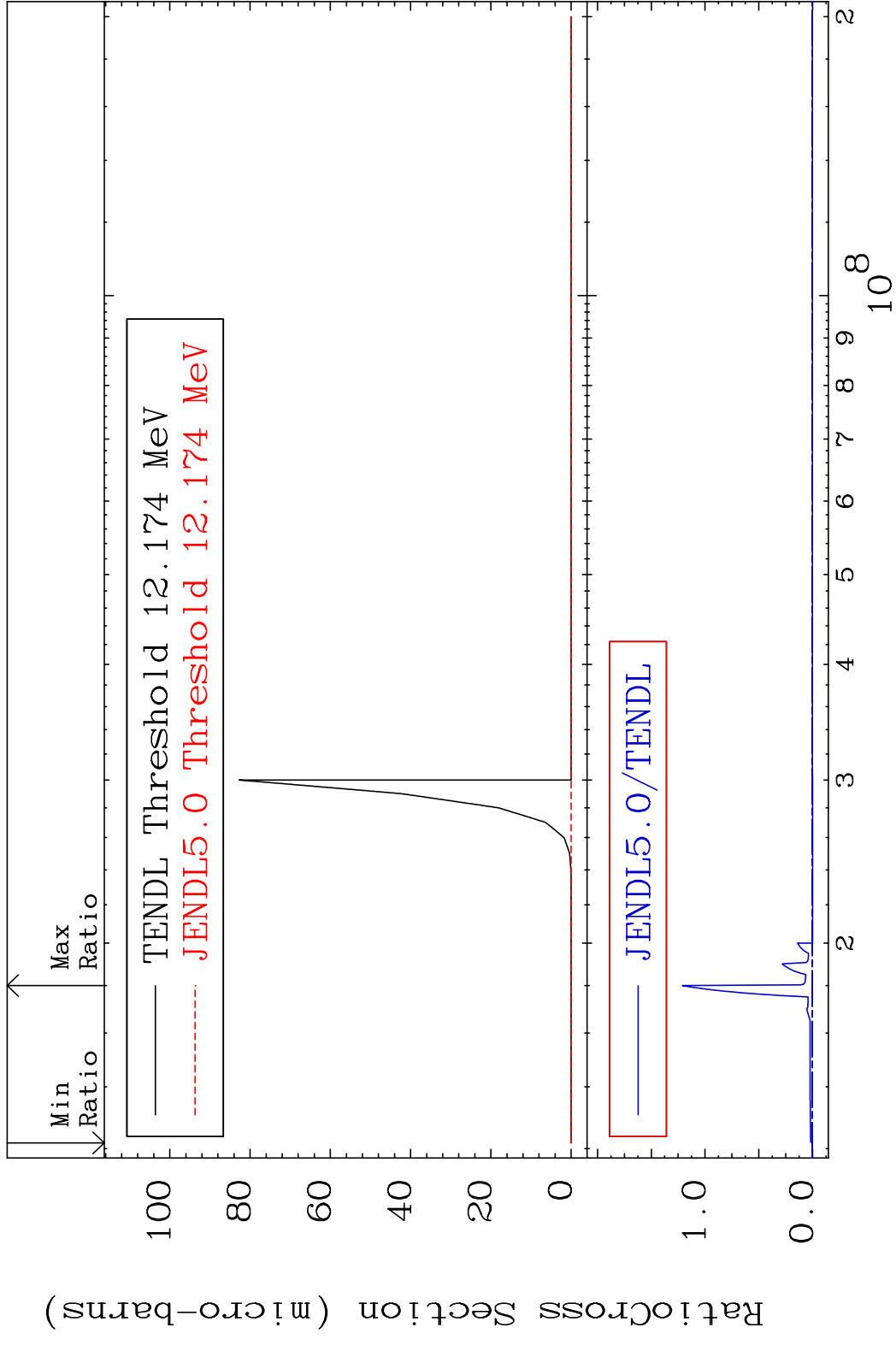
50-Sn-121m

MAT 5053

(n, He-3)

50-Sn-121m

Cross Section -100.0 To 9999. %

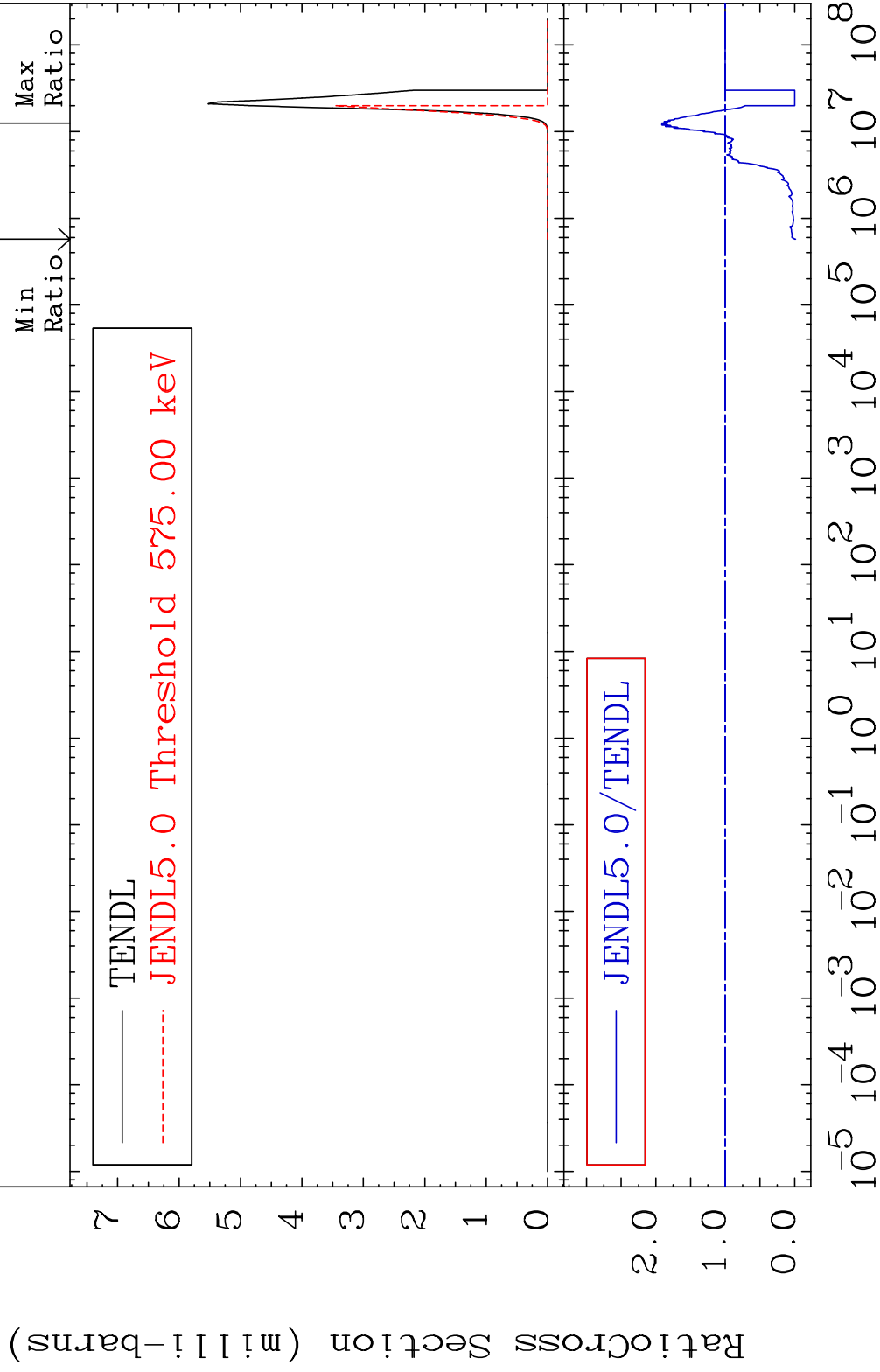


MAT 5053

(n,  $\alpha$ )

50-Sn-121m

Cross Section -100.0 To 91.98 %



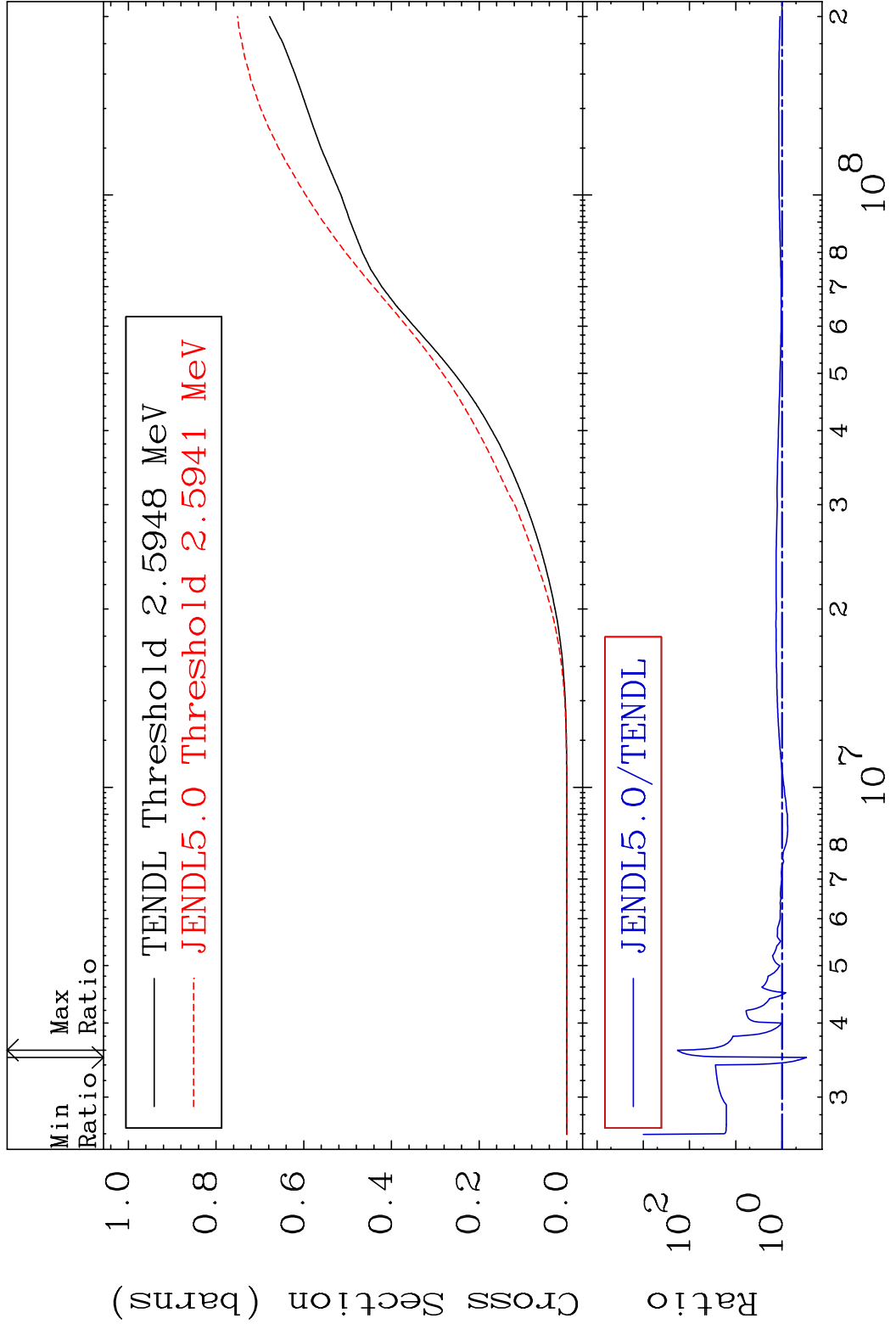
39

Incident Energy (eV)

50-Sn-121m

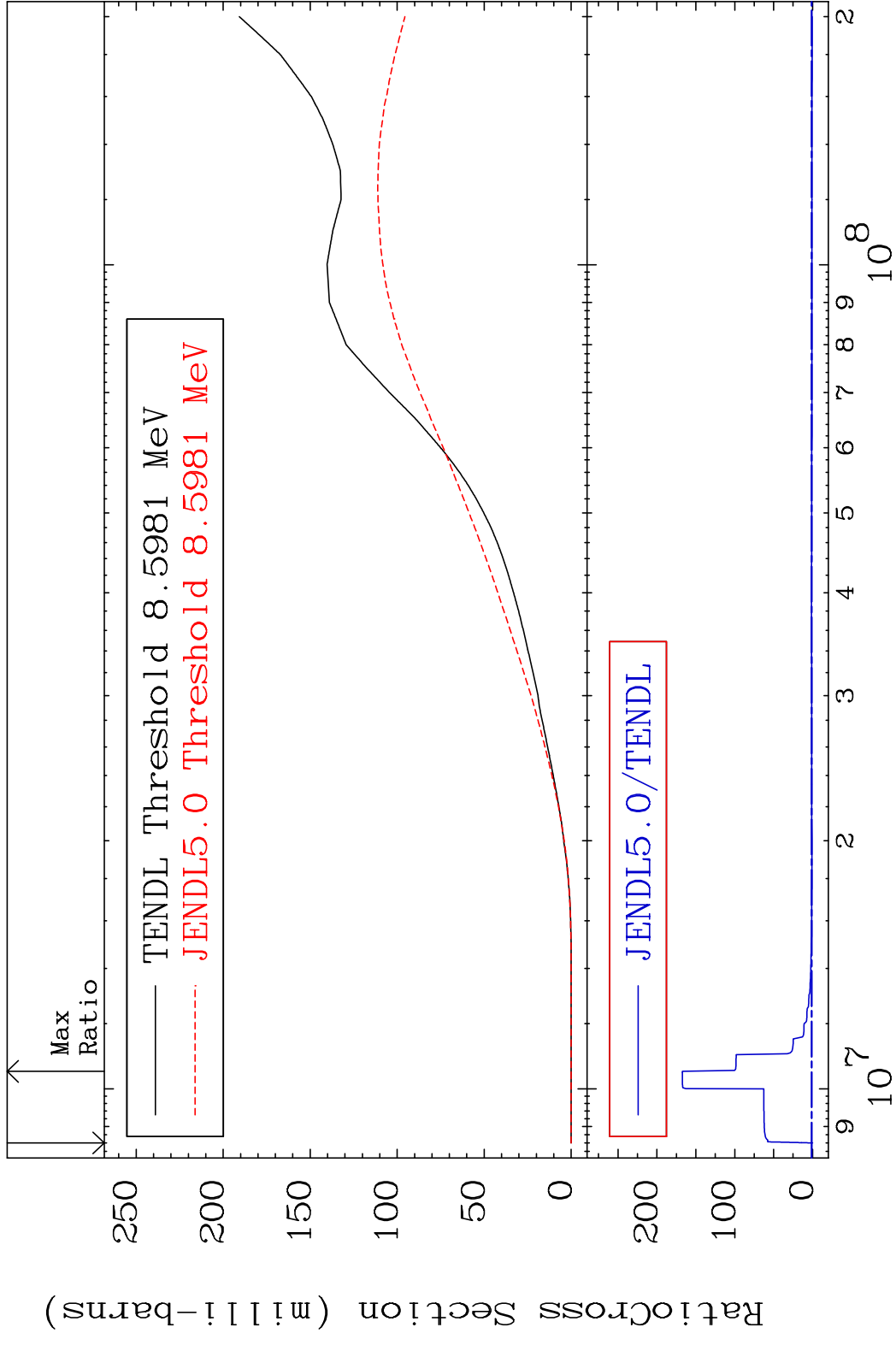


MAT 5053 Hydrogen Production 50-Sn-121m  
 Cross Section -70.30 To 9999. %



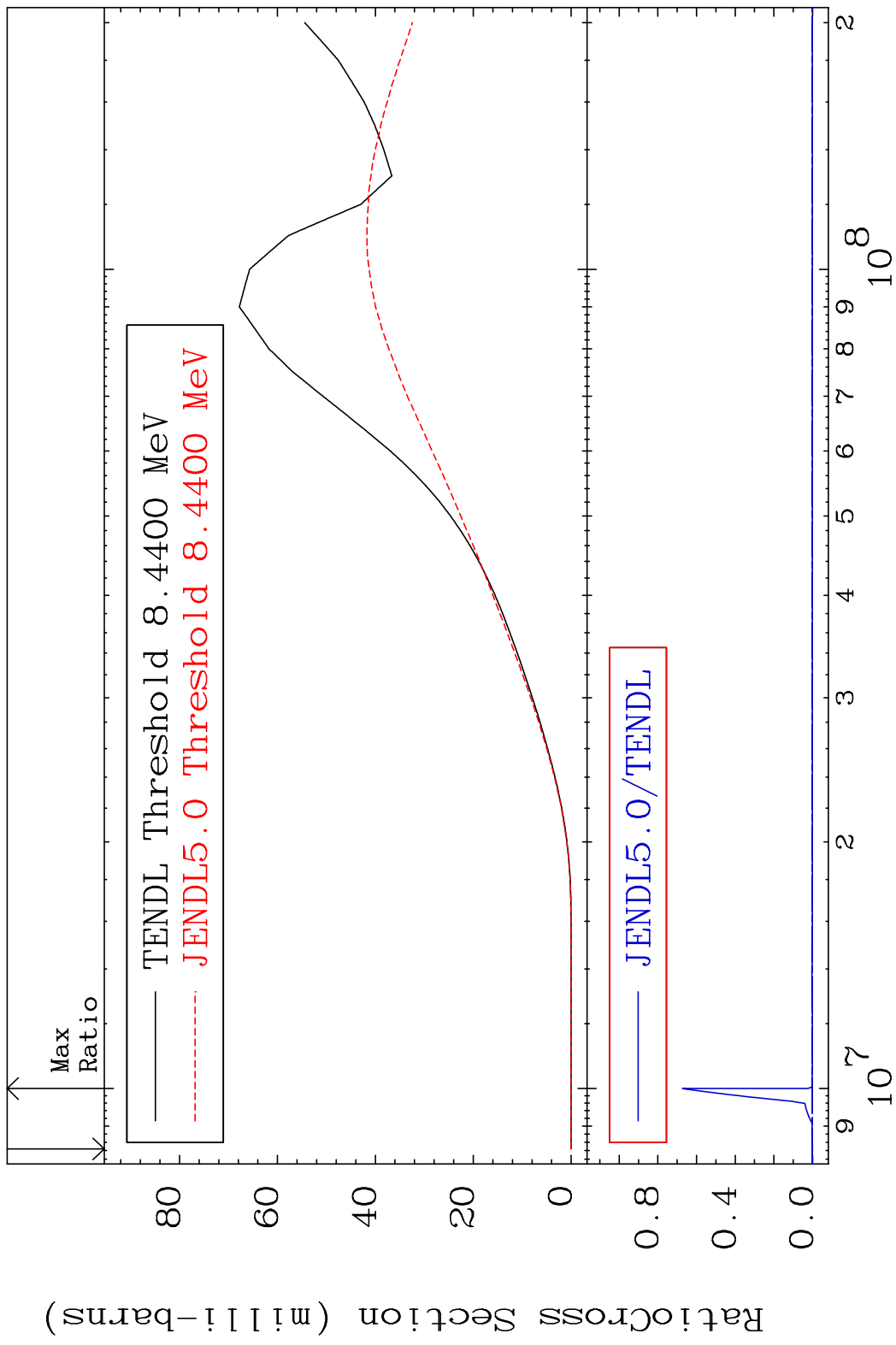
40 Incident Energy (eV) 50-Sn-121m

MAT 5053 Deuterium Production 50-Sn-121m  
 Cross Section -100.0 To 9999. %



41 Incident Energy (eV) 50-Sn-121m

MAT 5053 Tritium Production 50-Sn-121m  
 Cross Section -100.0 To 9999. %



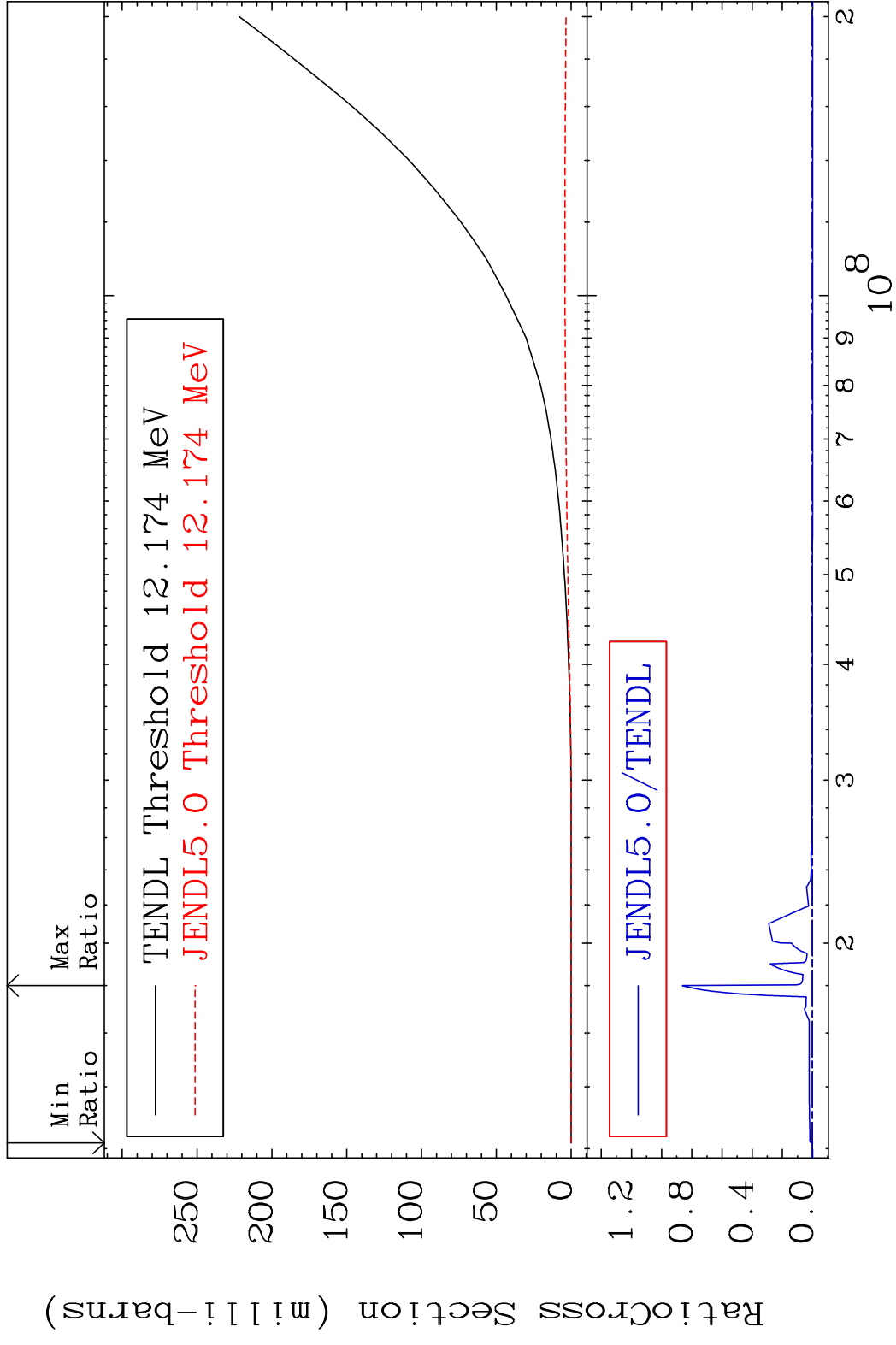
42 50-Sn-121m

MAT 5053

He-3 Production

50-Sn-121m

Cross Section -100.0 To 9999. %



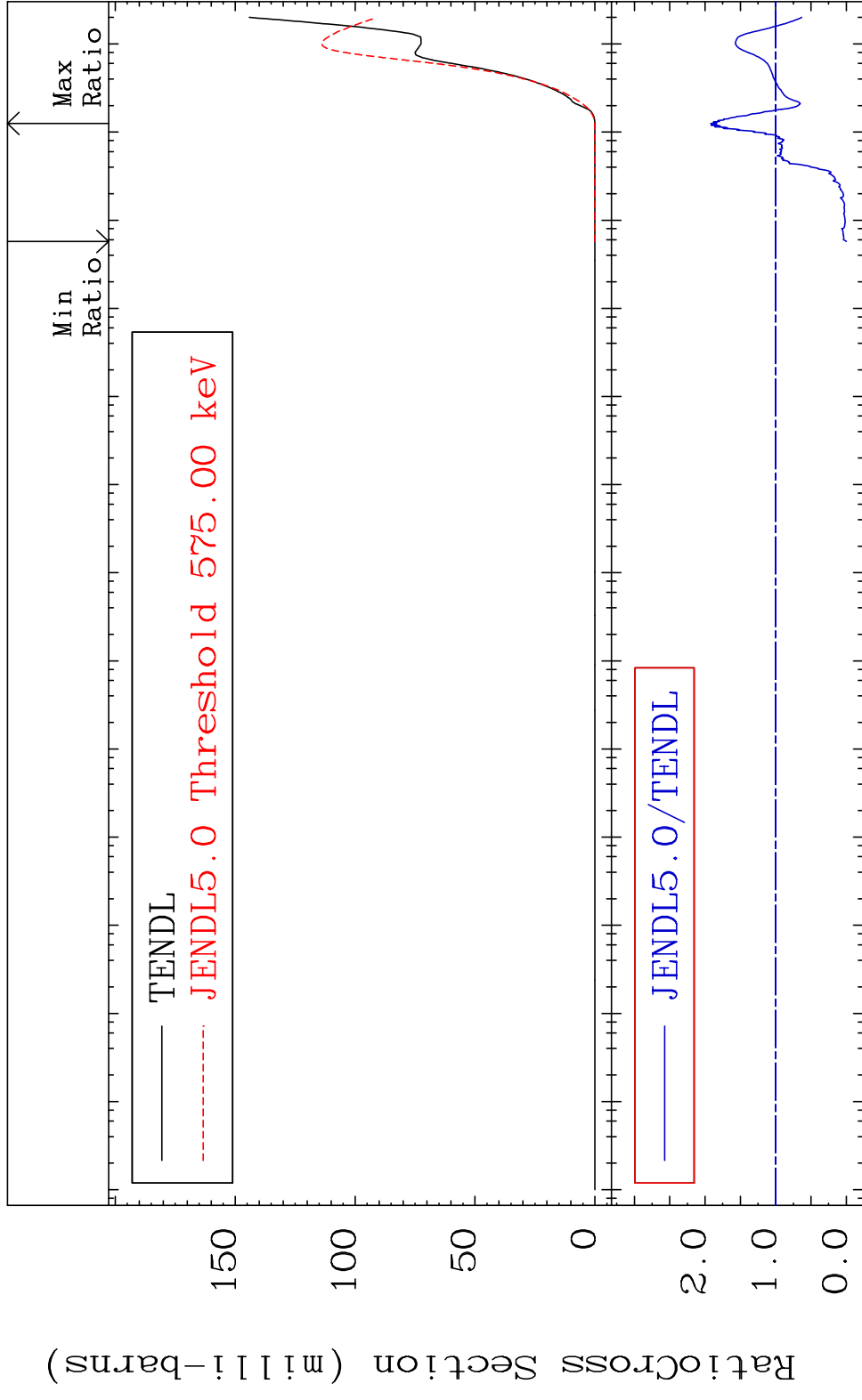
MAT 5053

He-4 Production

50-Sn-121m

Cross Section

-100.0 To 91.97 %

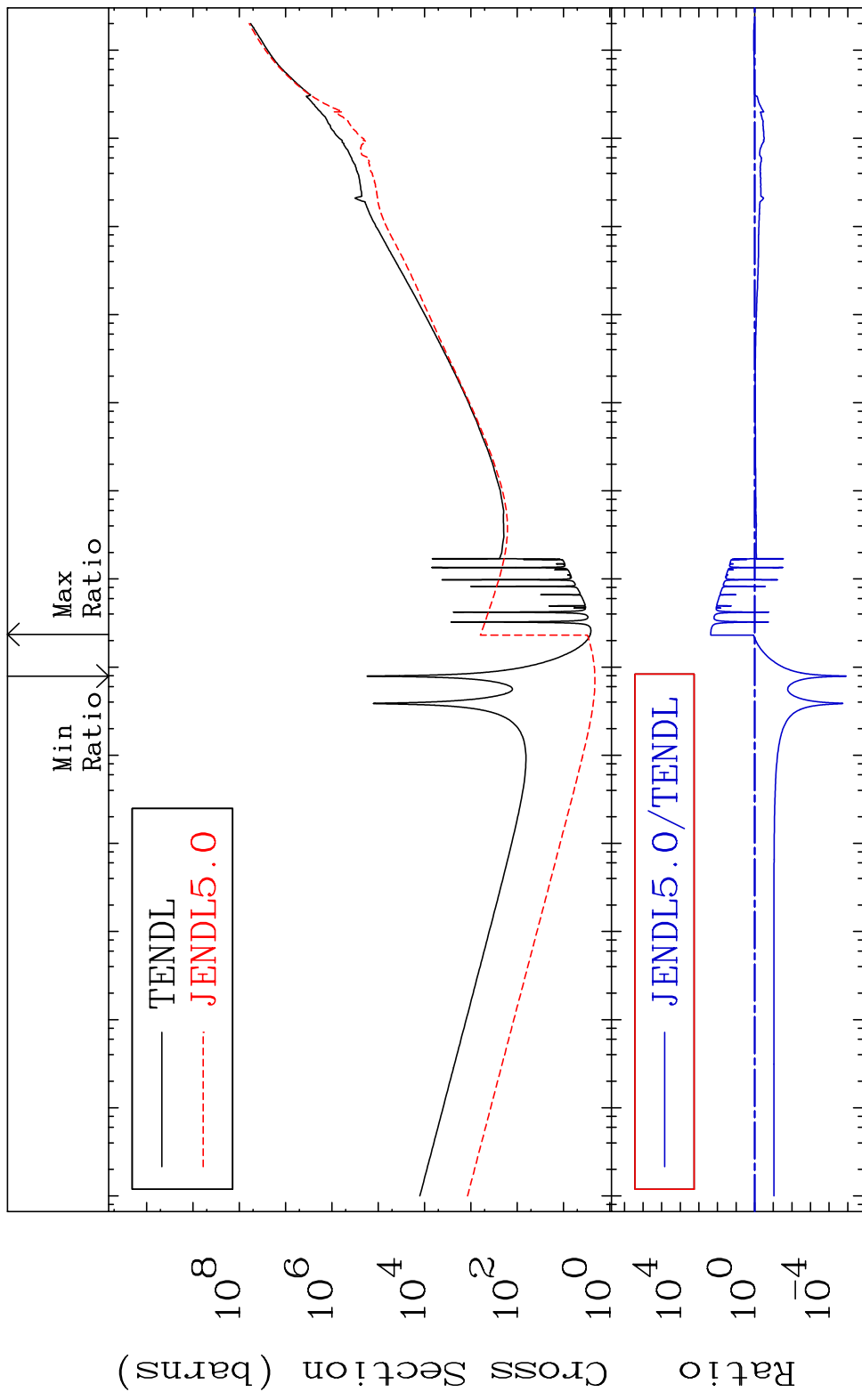


44

Incident Energy (eV)

50-Sn-121m

MAT 5053 Kerma total (eV-barns) 50-Sn-121m  
 Cross Section -100.0 To 9999. %

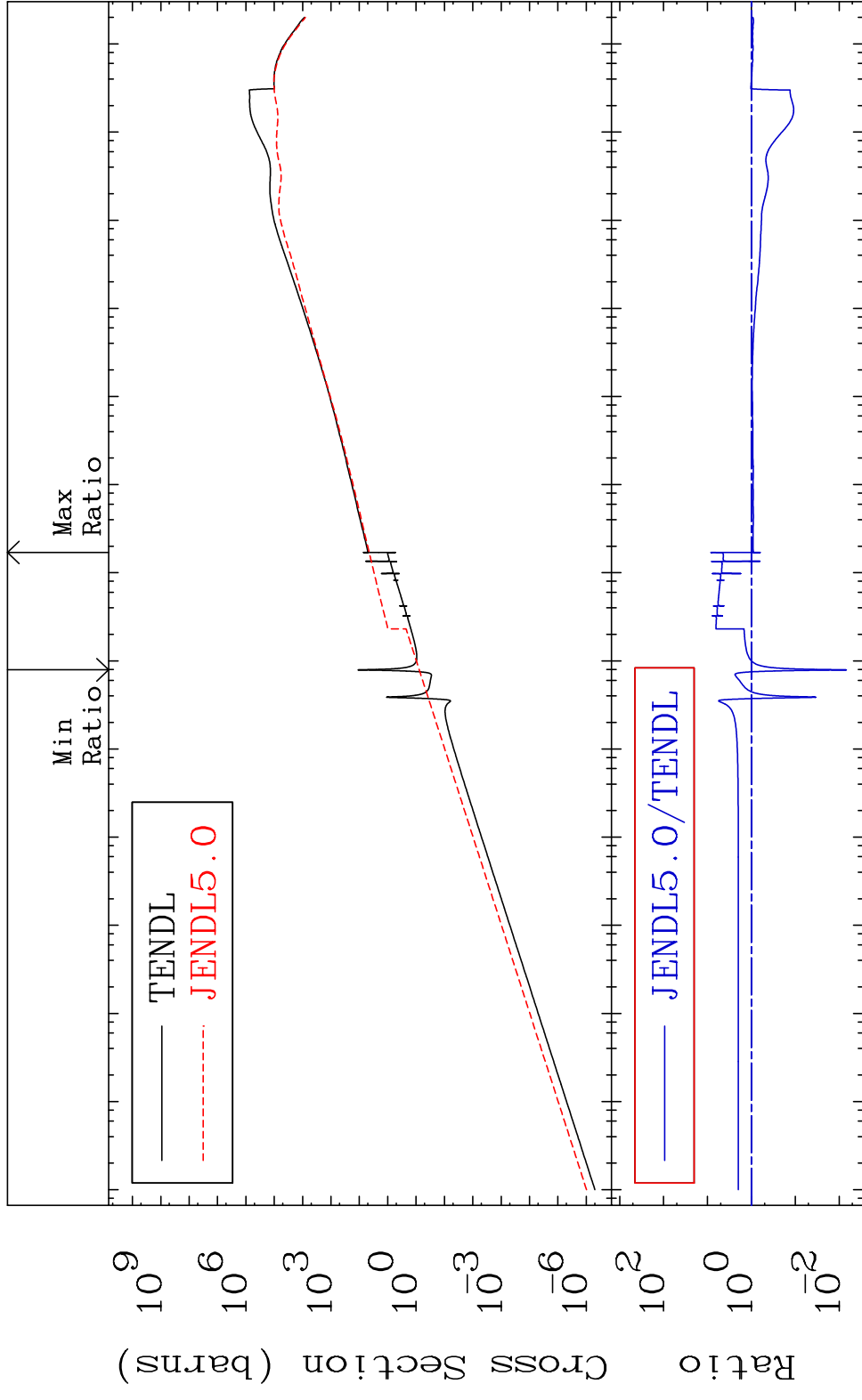


45 Incident Energy (eV) 50-Sn-121m

MAT 5053

Kerma elastic  
Cross Section

50-Sn-121m  
-99.31 To 743.3 %

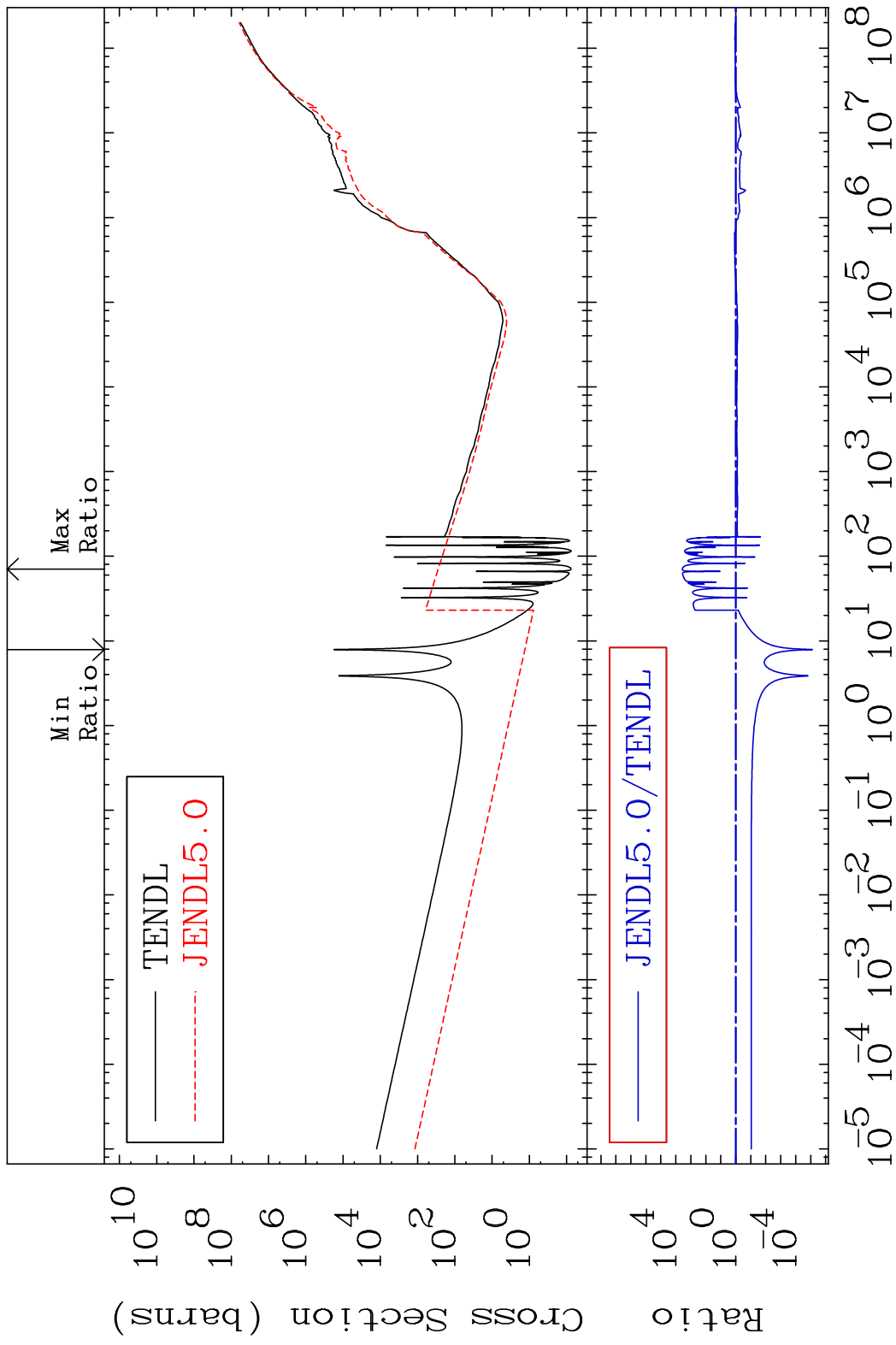


46

Incident Energy (eV)

50-Sn-121m

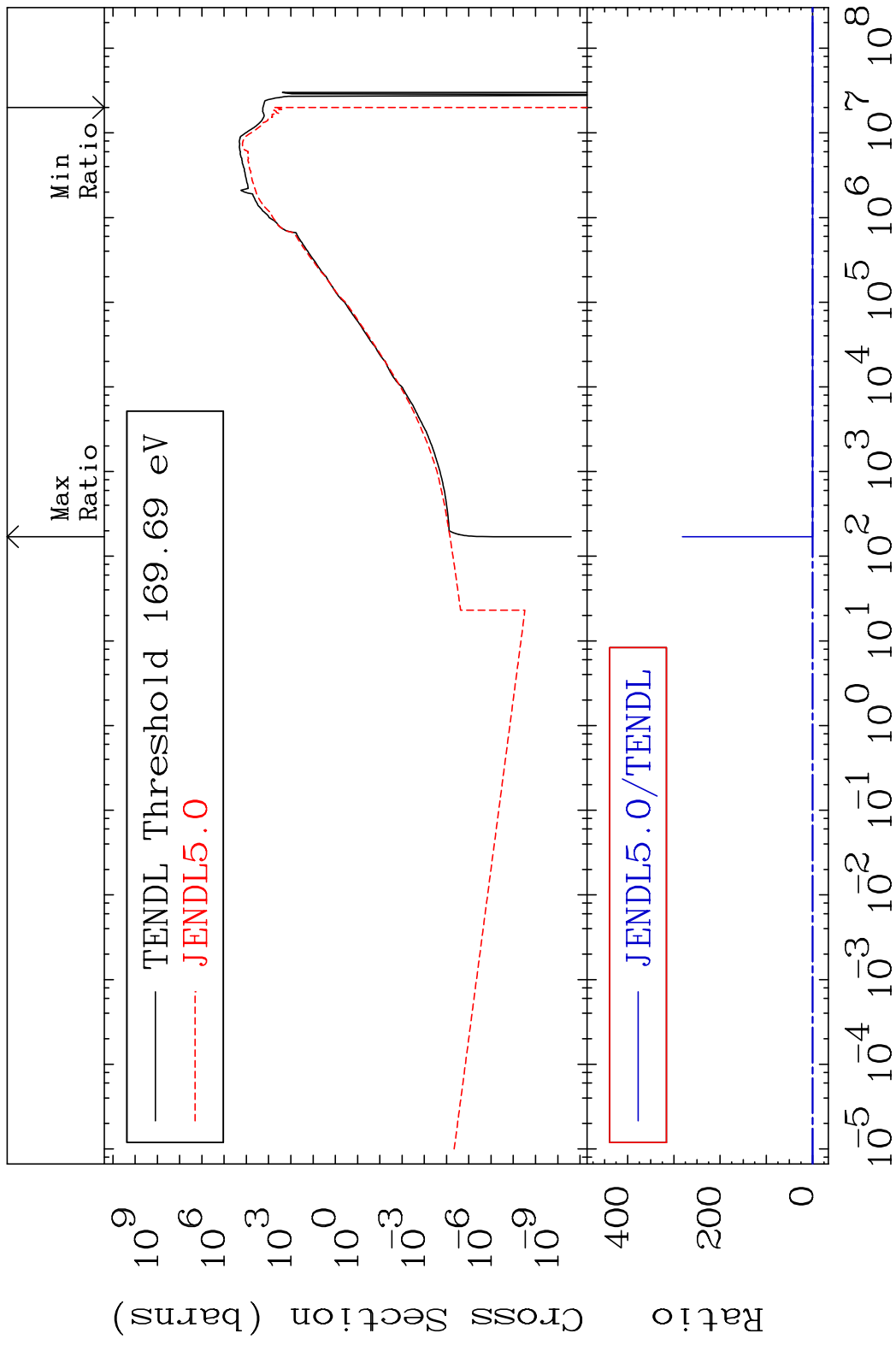
MAT 5053 Kerma non-elastic (all but mt2) 50-Sn-121m  
 Cross Section -100.0 To 9999. %



47 Incident Energy (eV) 50-Sn-121m

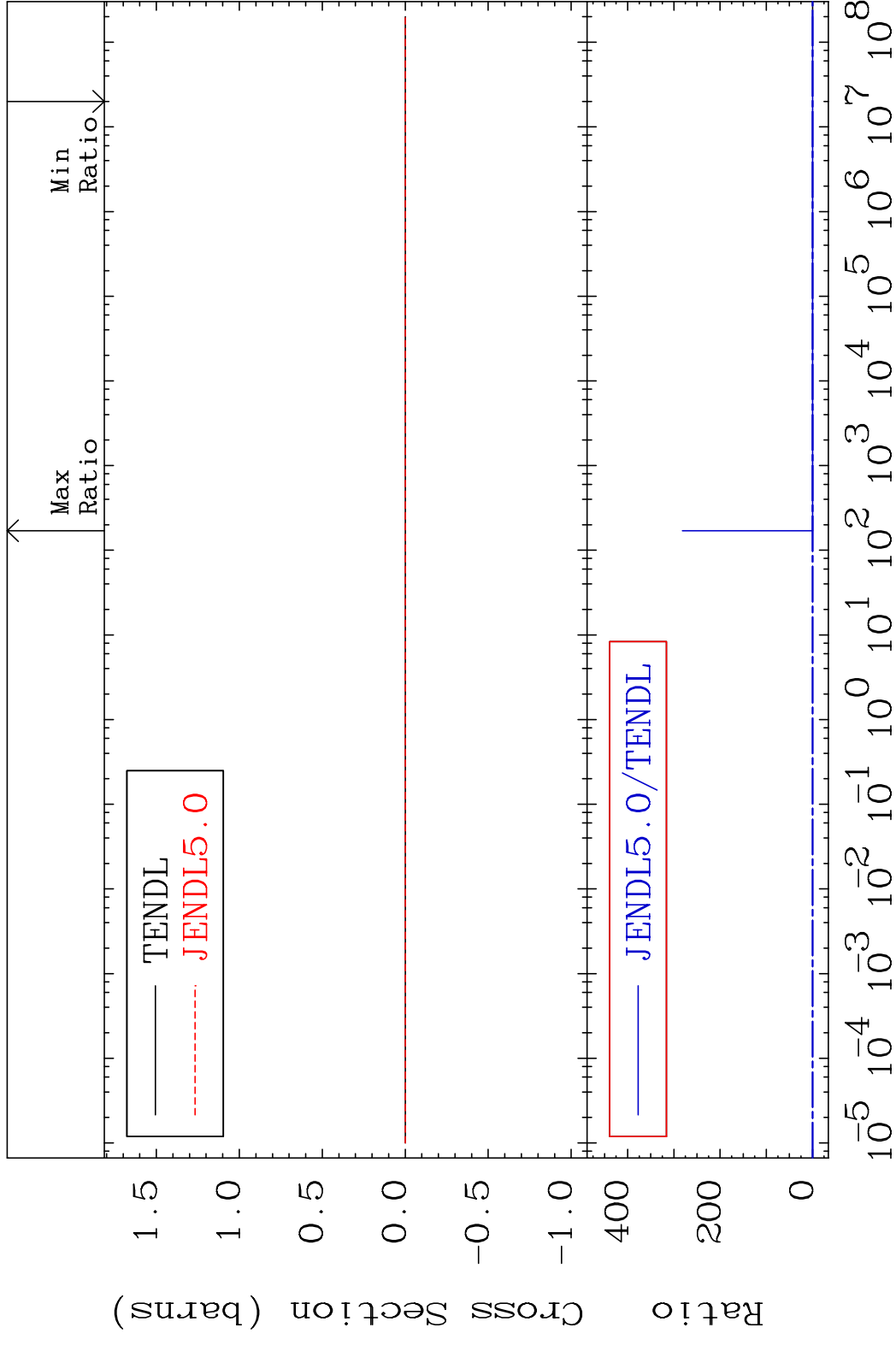


MAT 5053 Kerma inelastic (mt51-91) 50-Sn-121m  
 Cross Section -100.0 To 9999. %



48 Incident Energy (eV) 50-Sn-121m

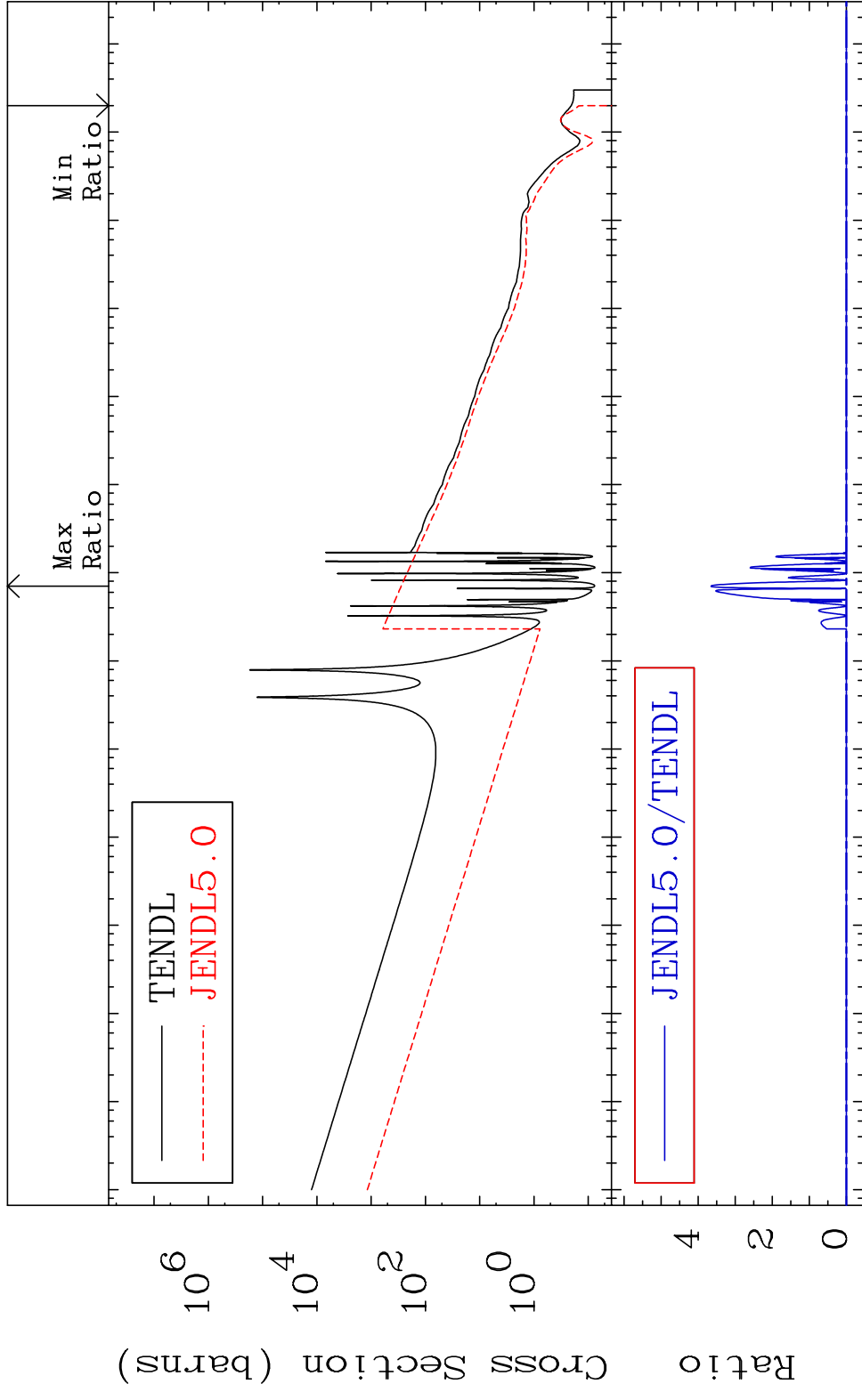
MAT 5053 Kerma fission (mt18 or mt19-20-21-350)-Sn-121m  
 Cross Section -100.0 To 9999. %



49 Incident Energy (eV) 50-Sn-121m

MAT 5053

Kerma capture (mt102) 50-Sn-121m  
Cross Section -100.0 To 9999. %

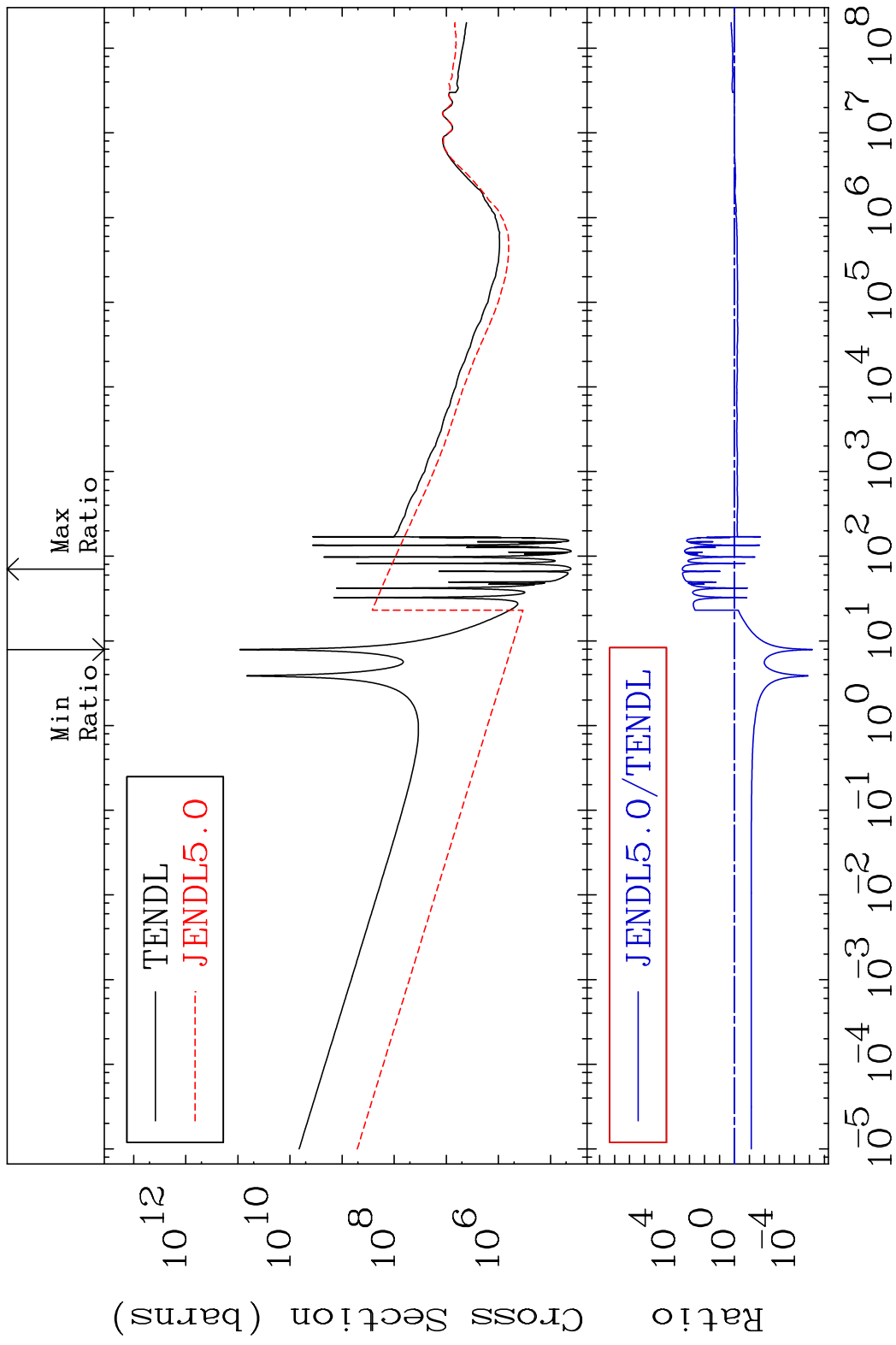


50

Incident Energy (eV)

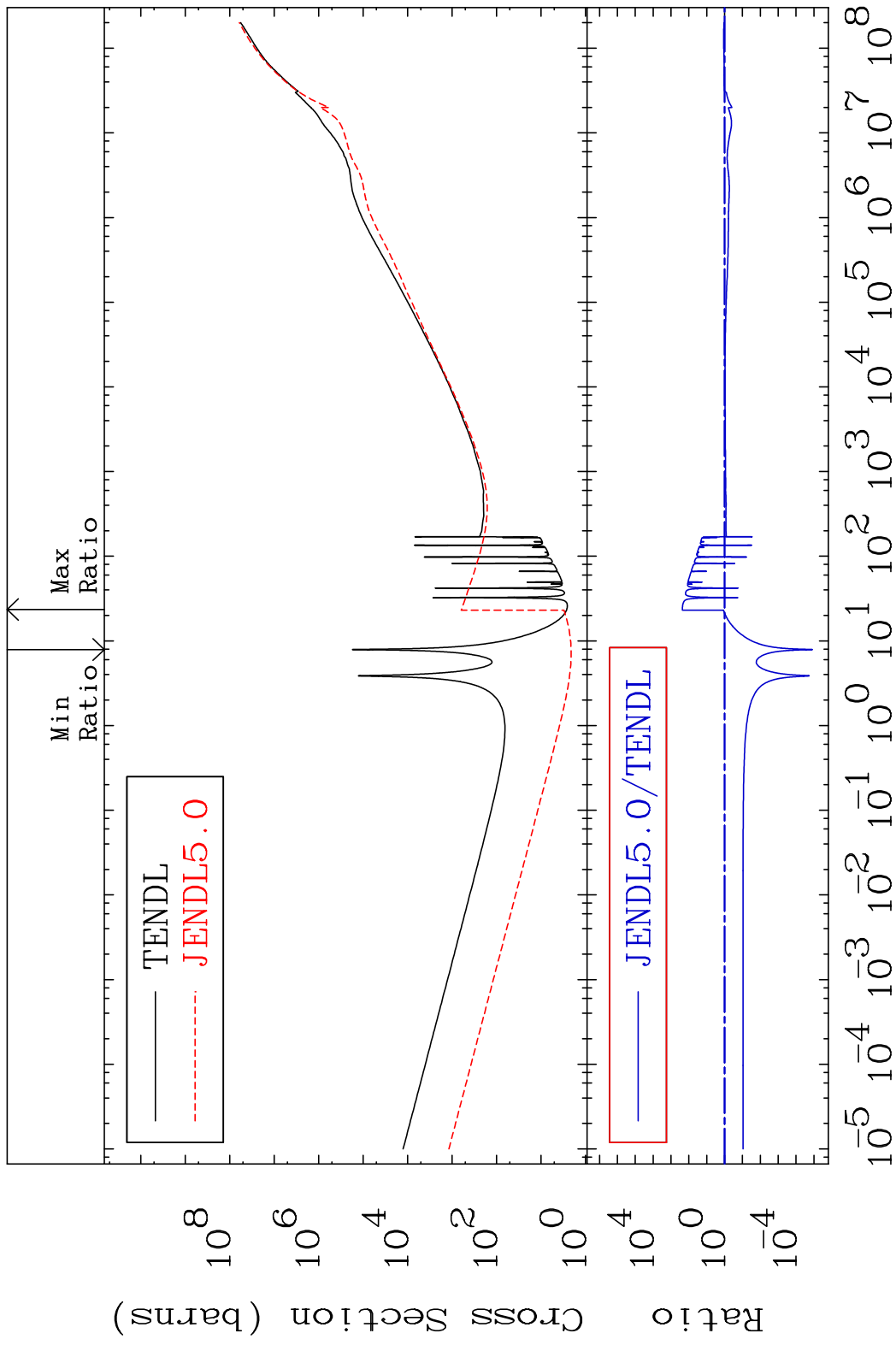
50-Sn-121m

MAT 5053 Total photon (eV-barns) 50-Sn-121m  
 Cross Section -100.0 To 9999. %

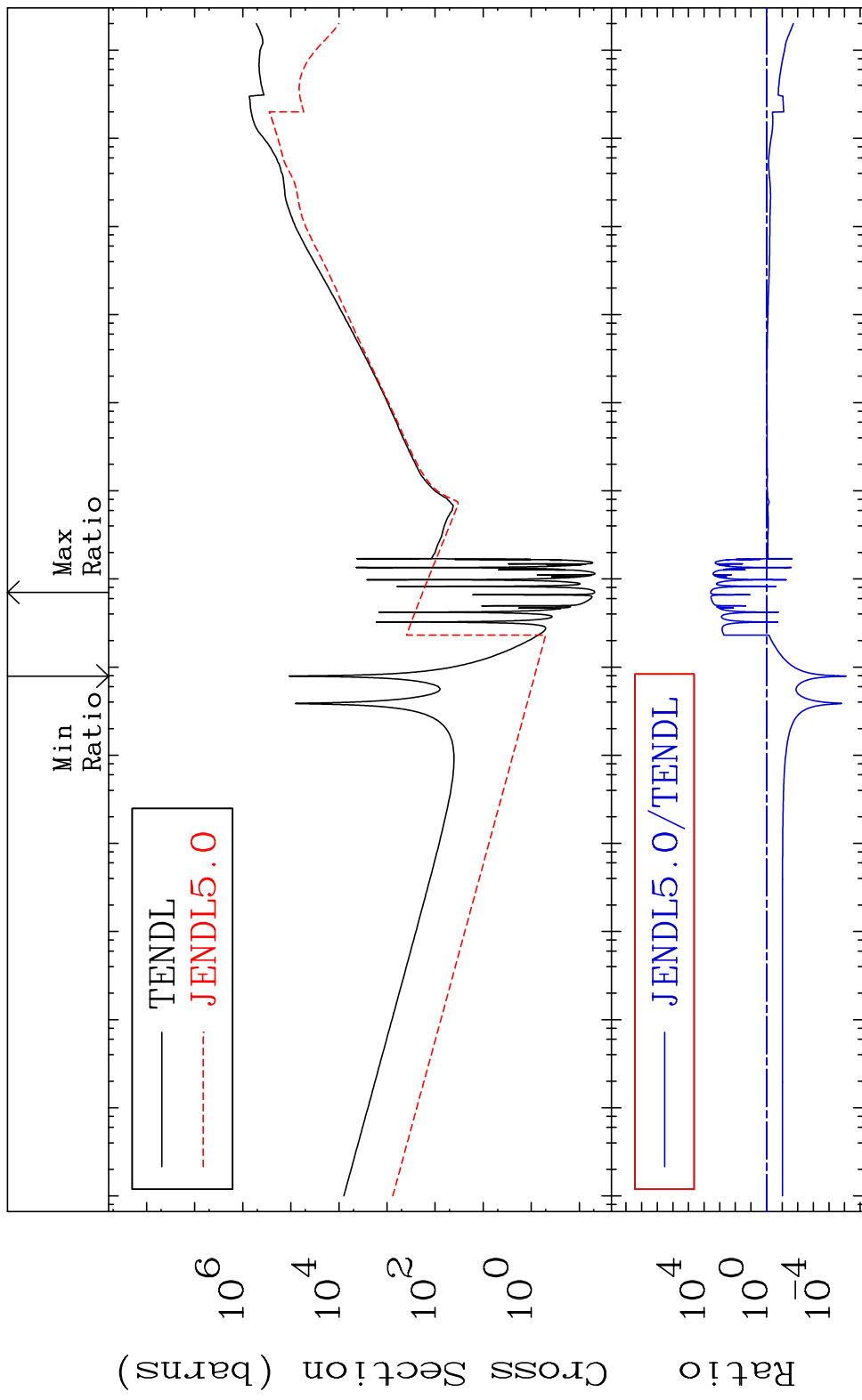


51 Incident Energy (eV) 50-Sn-121m

MAT 5053 Total kinematic kerma (high limit)50-Sn-121m  
 Cross Section -100.0 To 9999. %



MAT 5053 Dpa total (eV-barns) 50-Sn-121m  
 Cross Section -100.0 To 9999. %



53 Incident Energy (eV) 50-Sn-121m

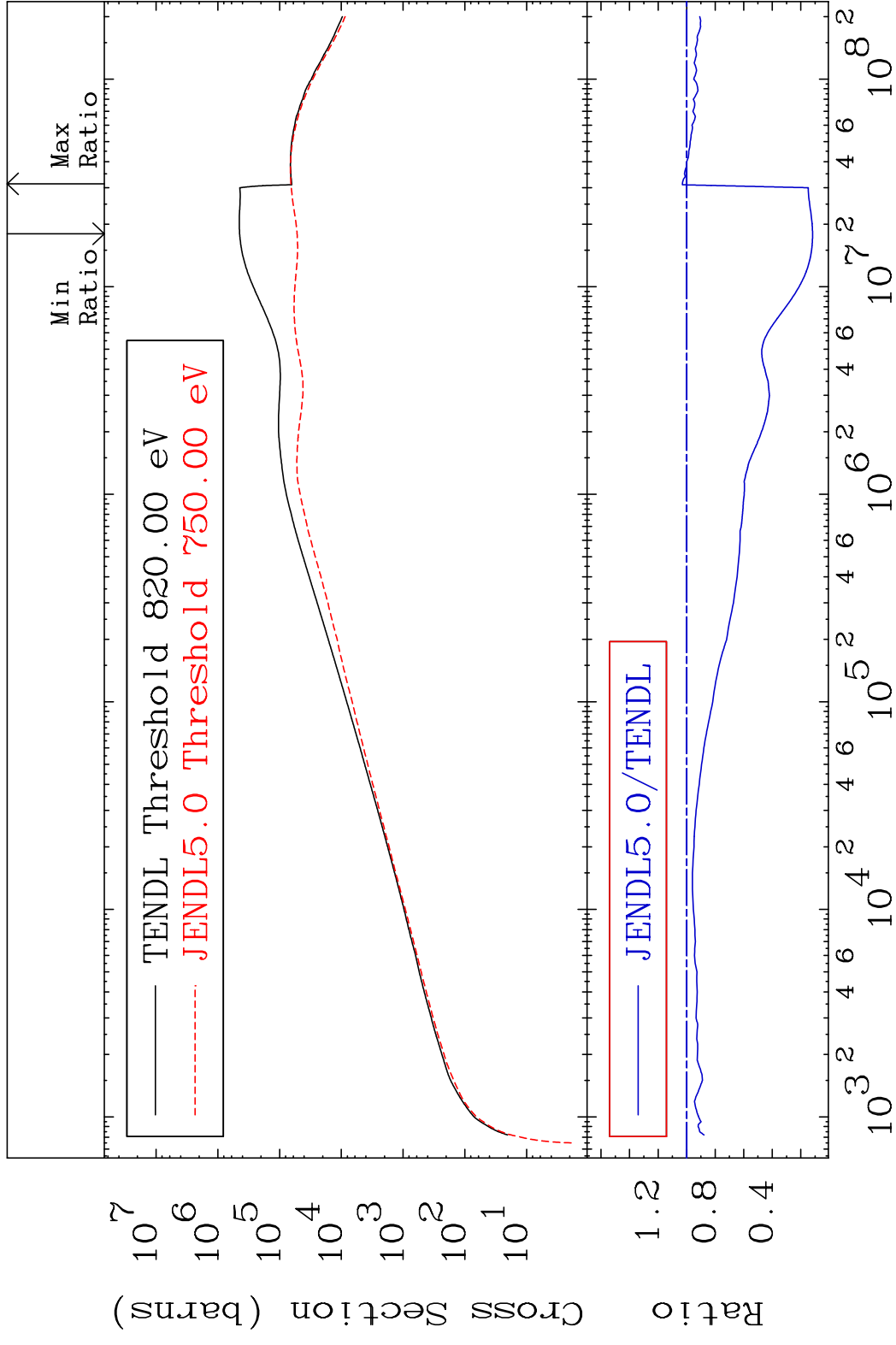
MAT 5053

Dpa elastic (mt2)

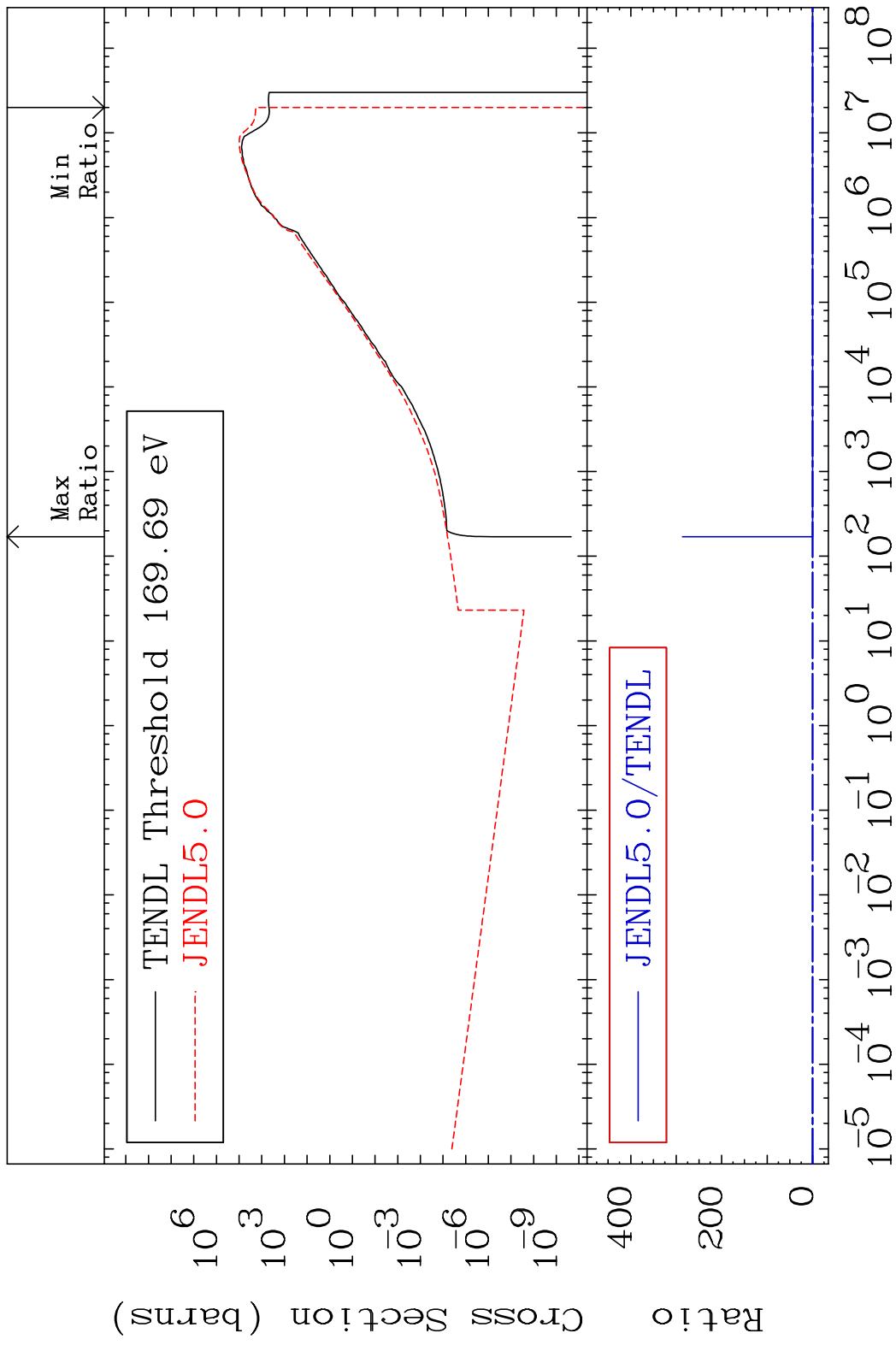
50-Sn-121m

Cross Section

-88.26 To 3.005 %



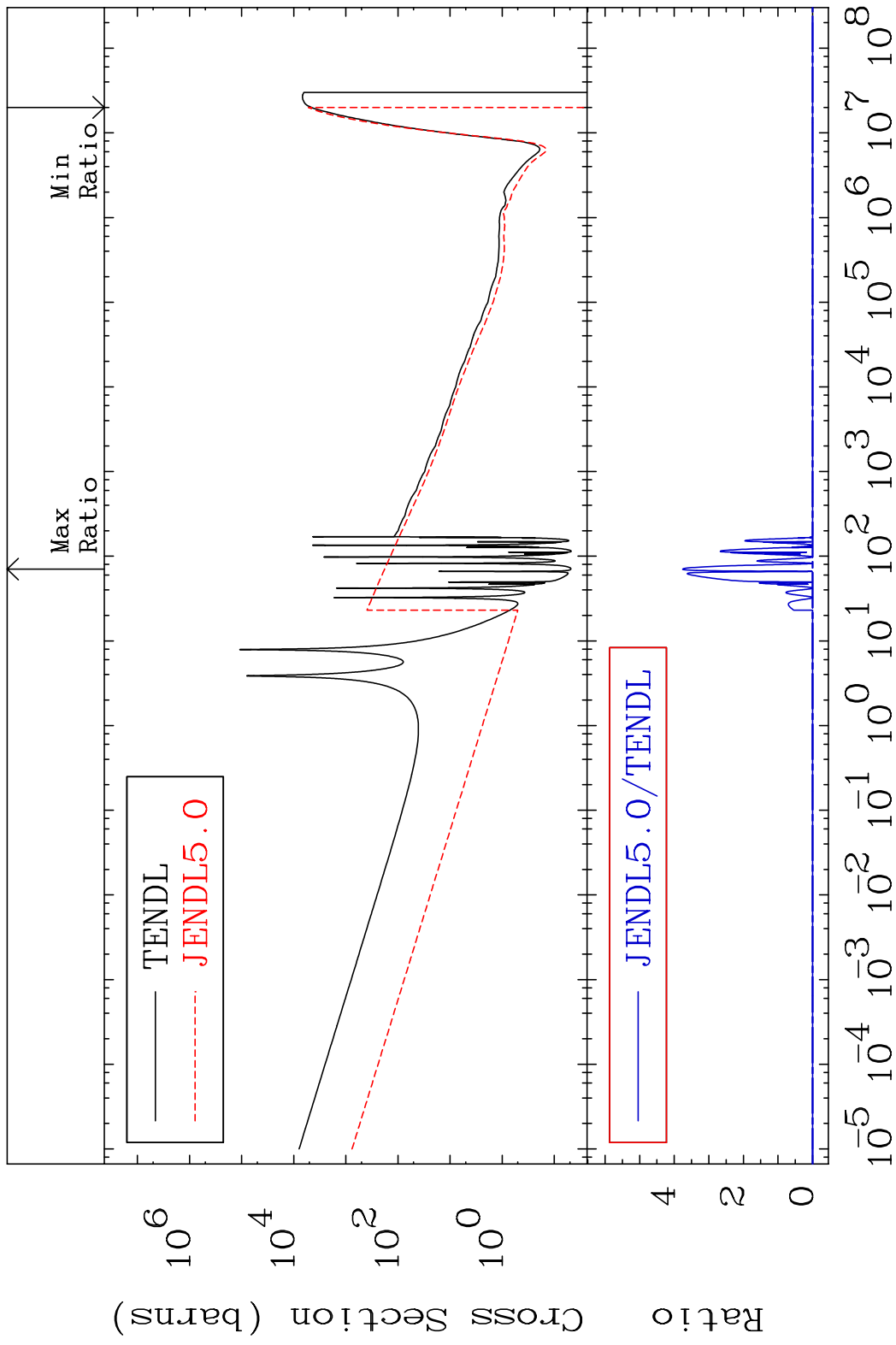
MAT 5053      Dpa inelastic (mt51-91)      50-Sn-121m  
 Cross Section      -100.0 To 9999. %



55      Incident Energy (eV)      50-Sn-121m

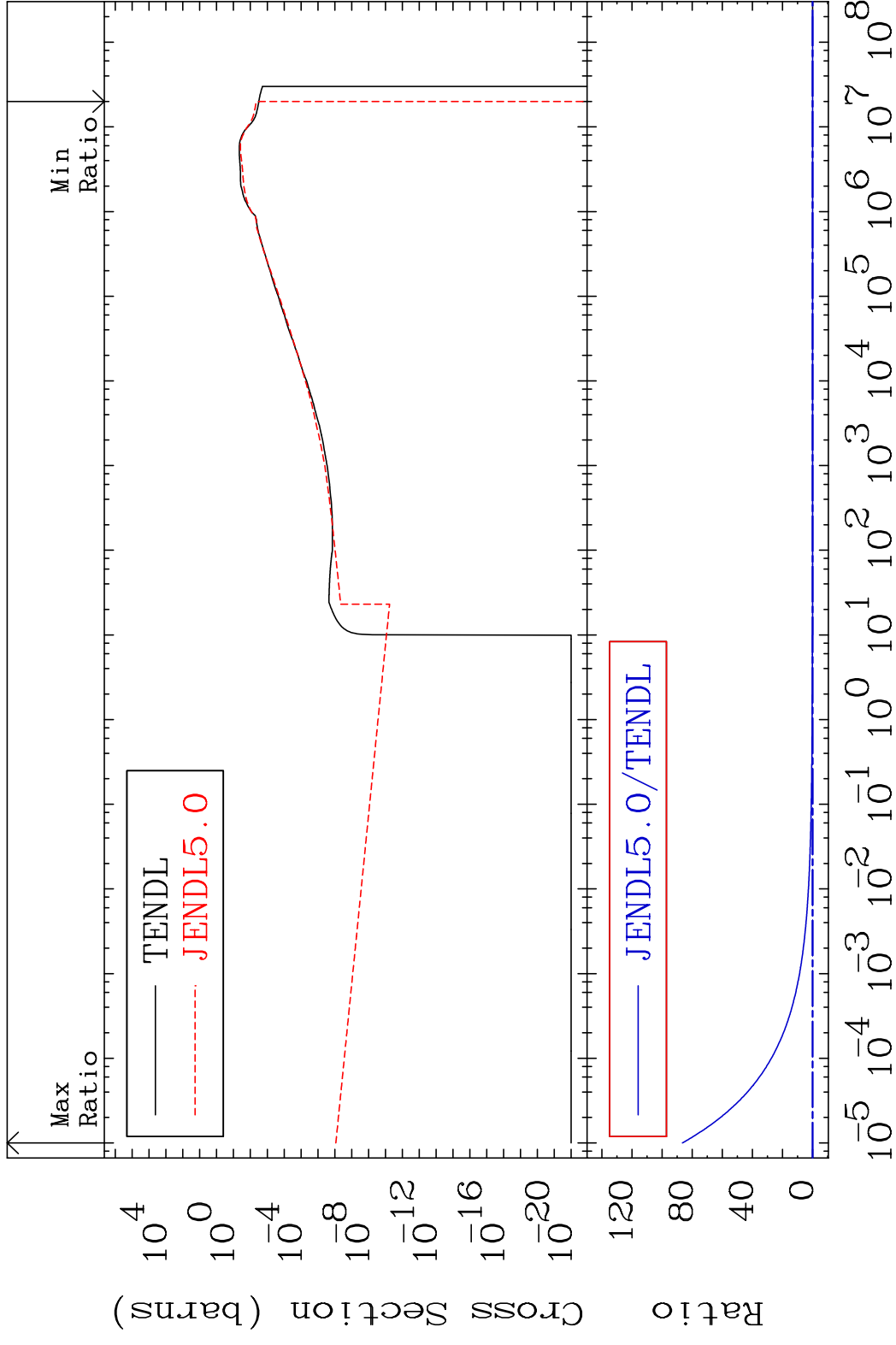


MAT 5053 Dpa disappearance (mt102 -120) 50-Sn-121m  
 Cross Section -100.0 To 9999. %



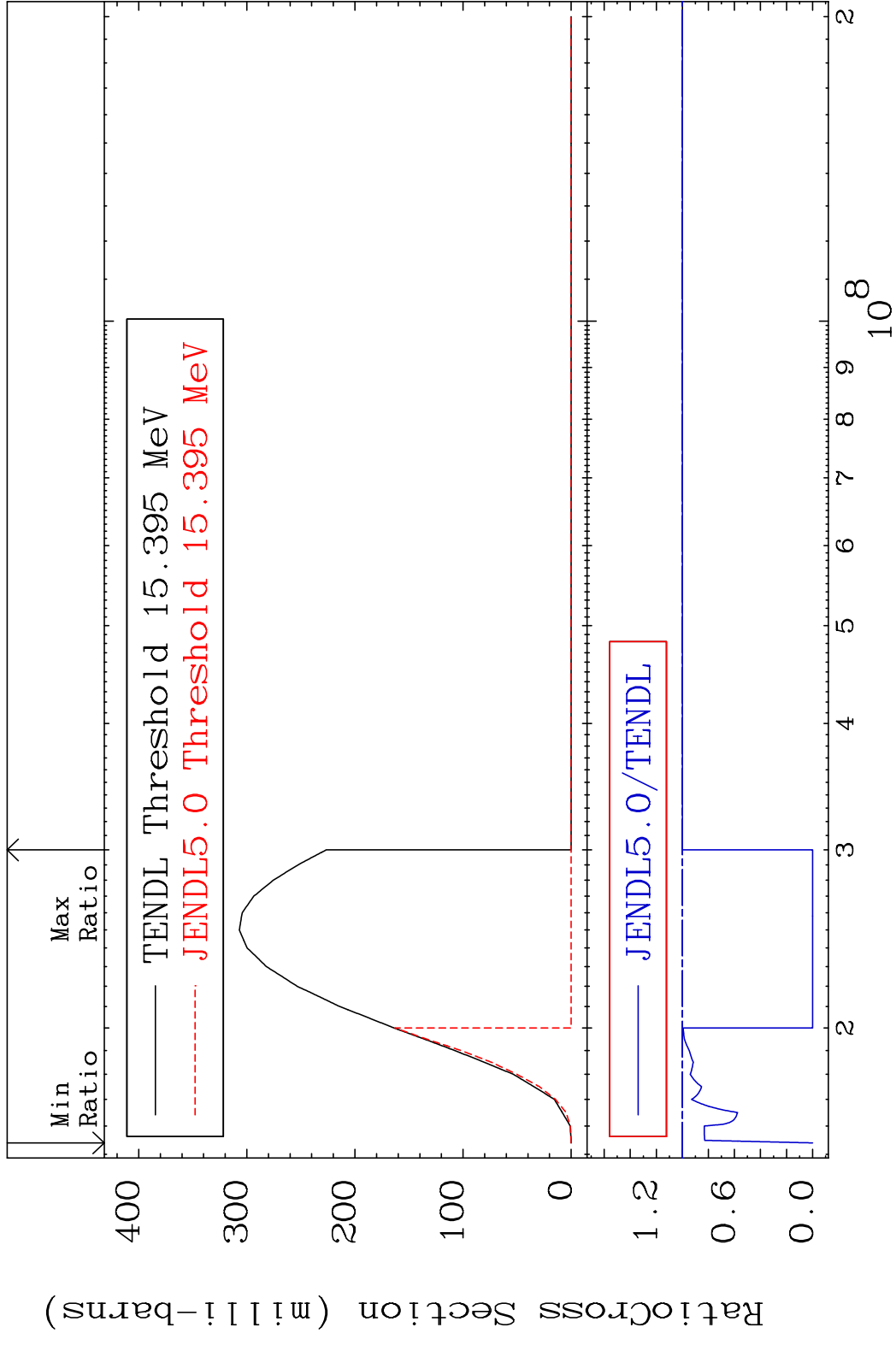
56 Incident Energy (eV) 50-Sn-121m

MAT 5053 Inelastic:50-Sn-121g 50-Sn-121m  
 Radionuclide Production Cross Section 100.00 dth 9999. %

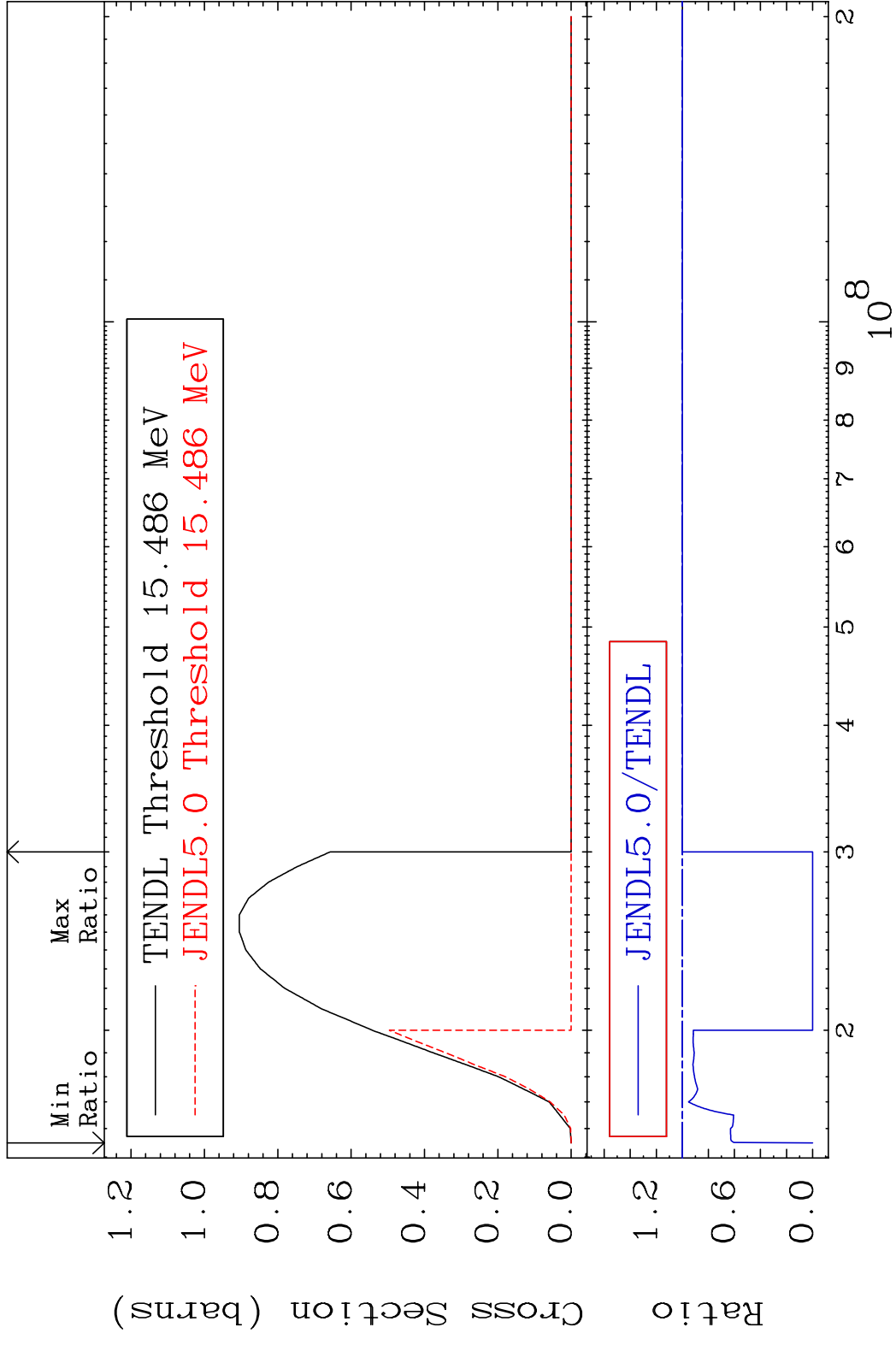


57 Incident Energy (eV) 50-Sn-121m

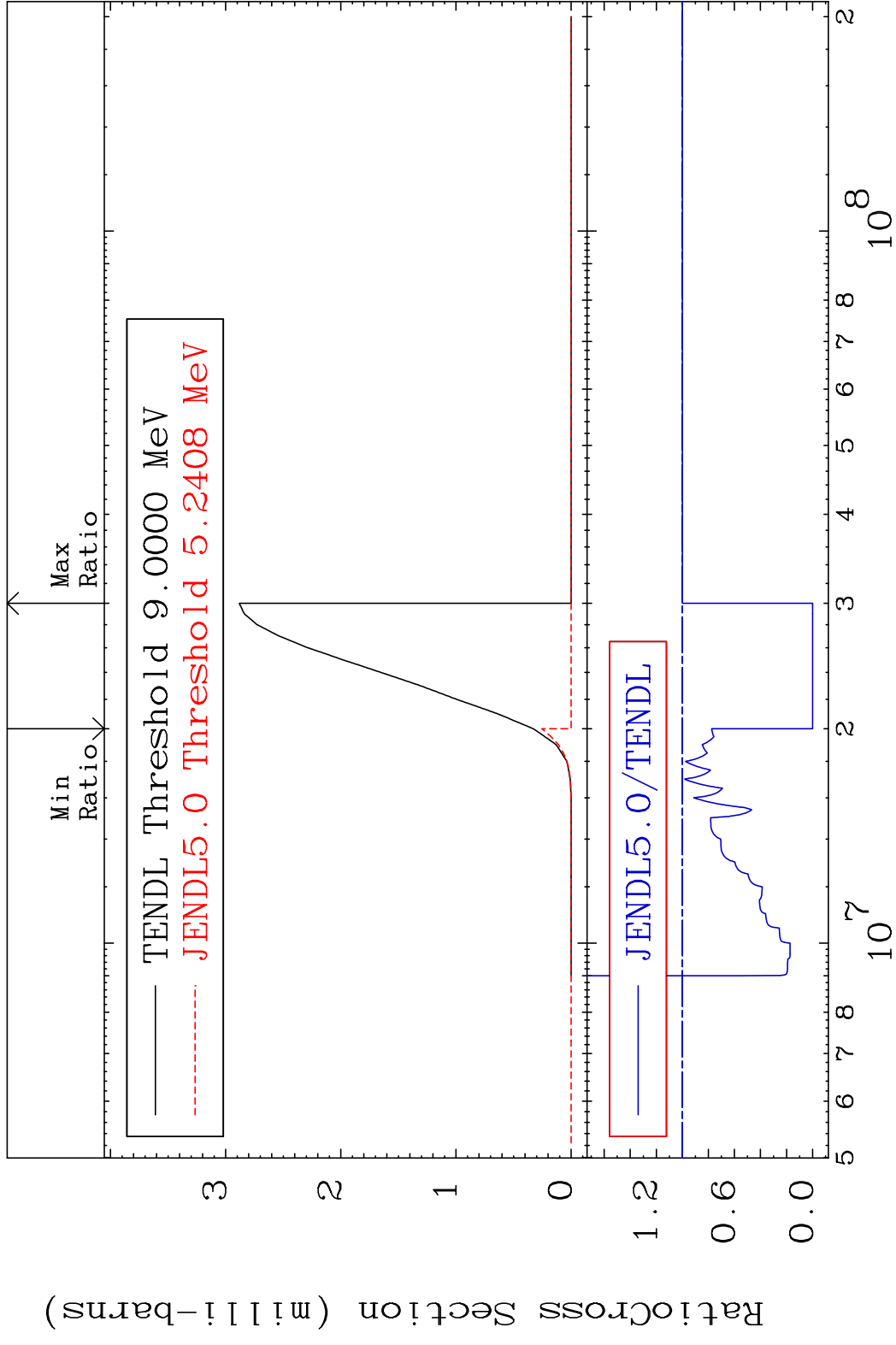
MAT 5053 (n,3n):50-Sn-119g 50-Sn-121m  
 Radionuclide Production Cross Section Ratio 0.000 %



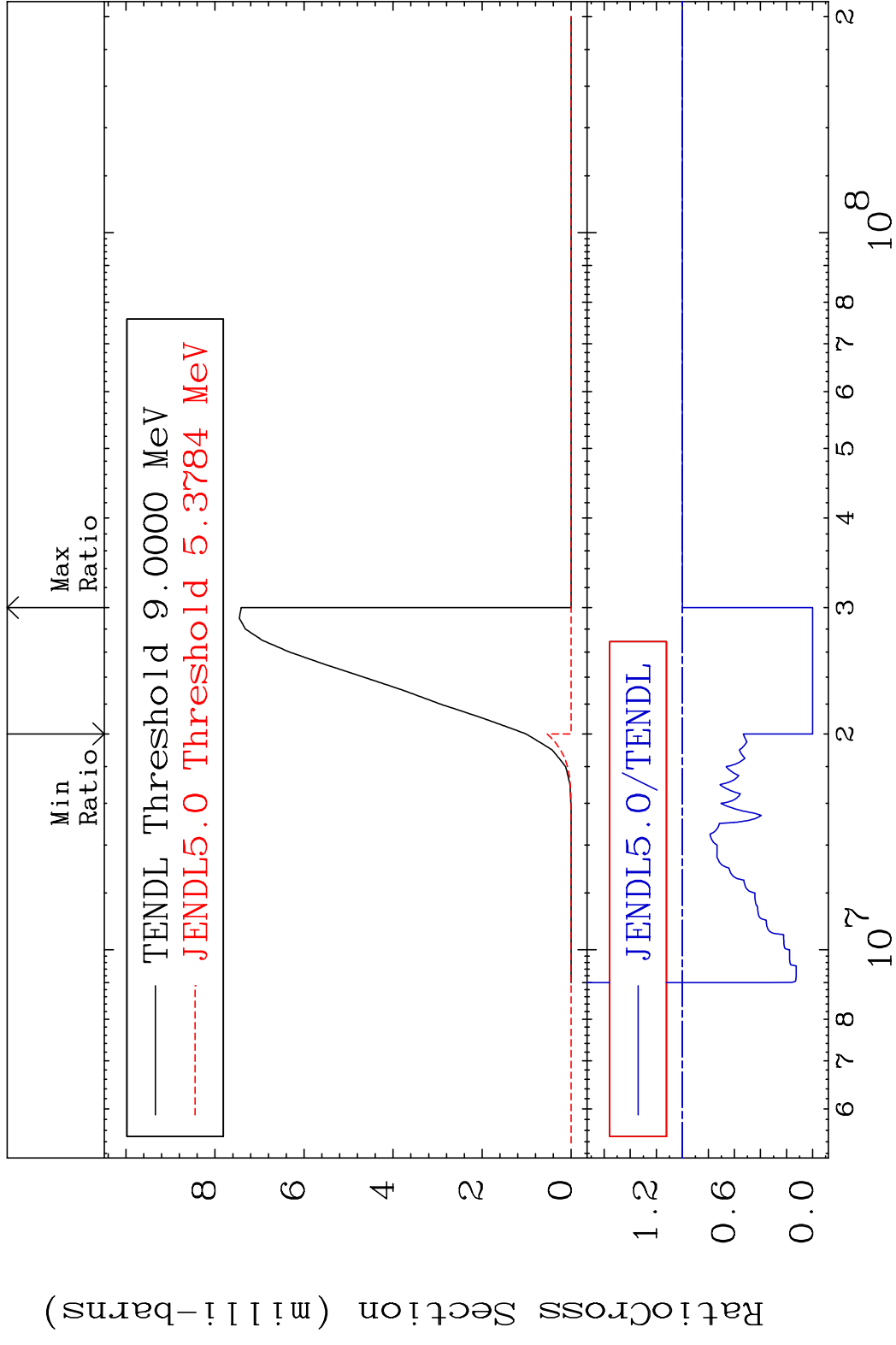
MAT 5053 (n, 3n):50-Sn-119m2 50-Sn-121m  
 Radionuclide Production Cross Section 180.00 dth 0.000 %



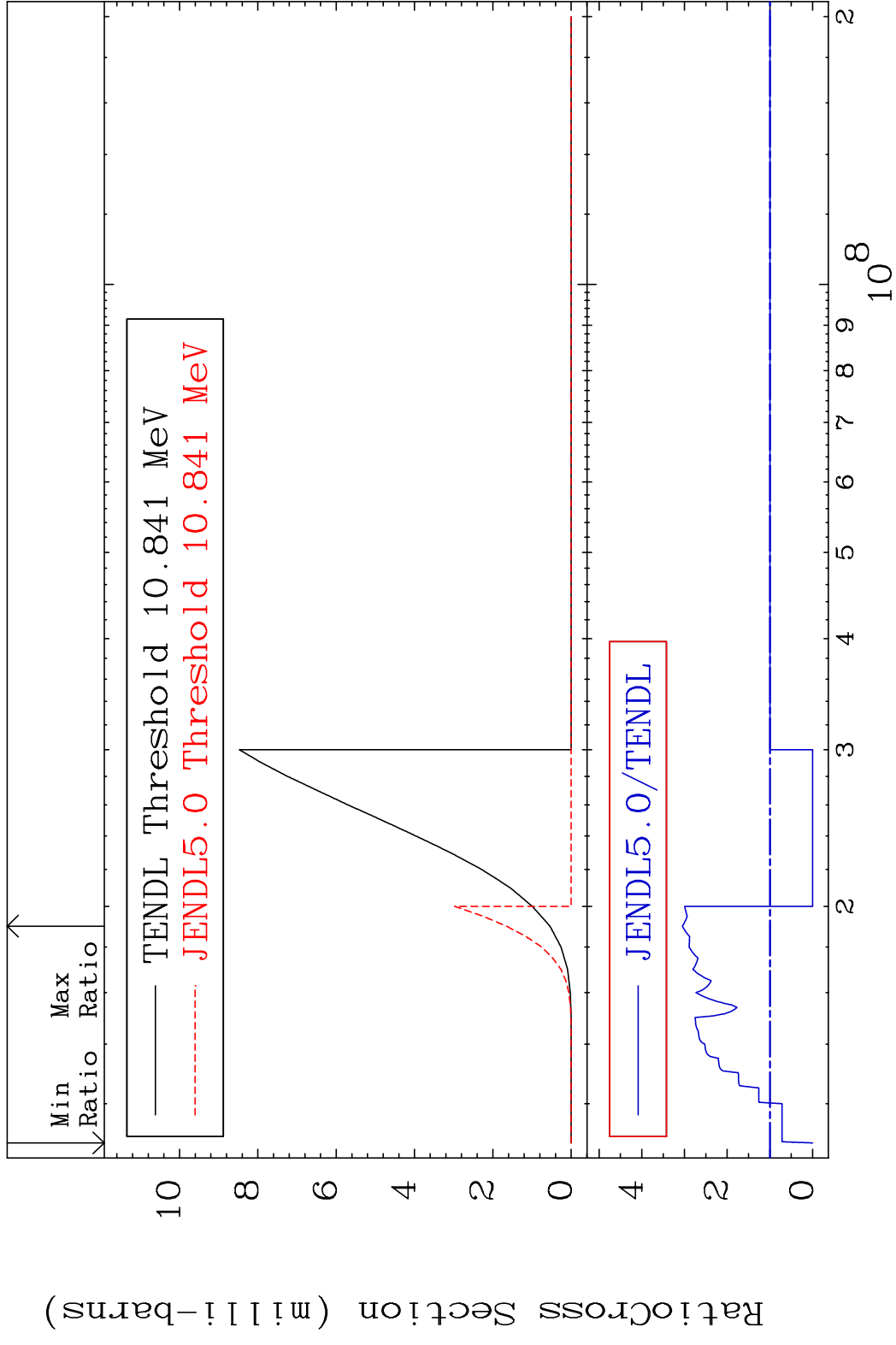
MAT 5053 (n, n')  $\alpha$ :48-Cd-117g 50-Sn-121m  
 Radionuclide Production Cross Section 180.00 dth 0.000 %



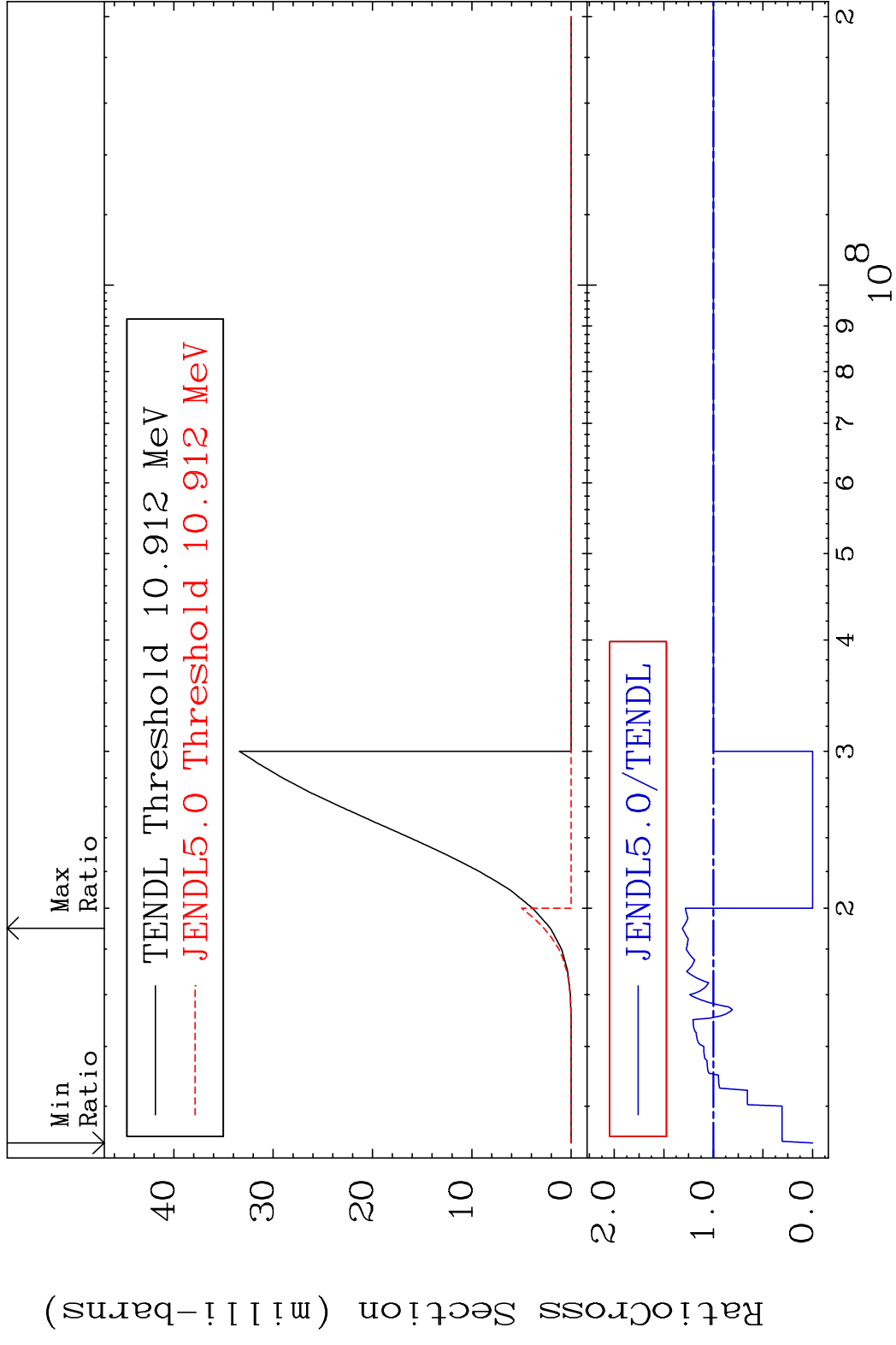
MAT 5053 (n, n')  $\alpha$ :48-Cd-117m2 50-Sn-121m  
 Radionuclide Production Cross Section Ratio 0.000 %



MAT 5053 (n, n') p:49-In-120g 50-Sn-121m  
 Radionuclide Production Cross Section to 205.0 %

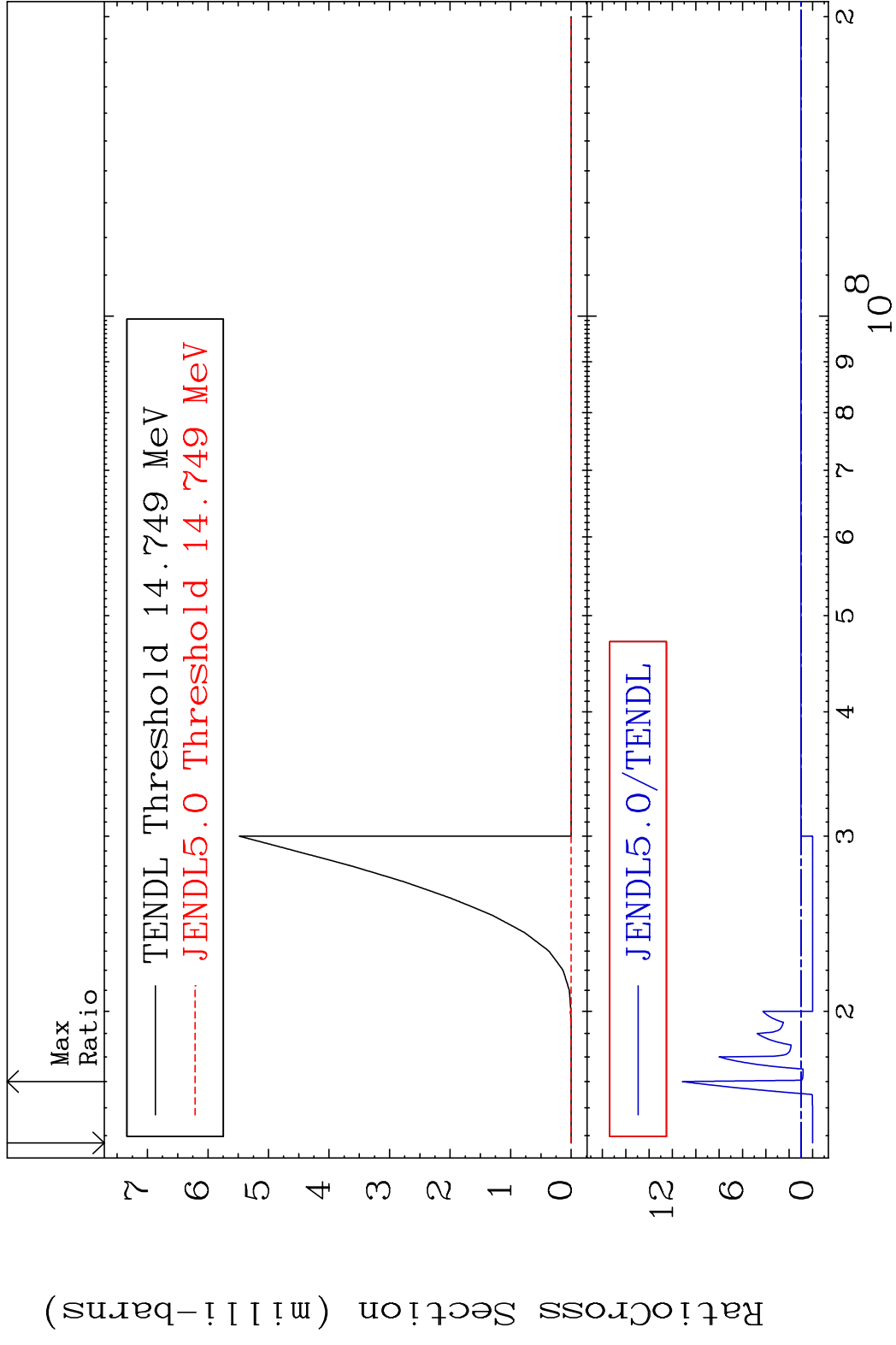


MAT 5053 (n, n') p:49-In-120m1 50-Sn-121m  
 Radionuclide Production Cross Section 180.01 dth 31.31 %

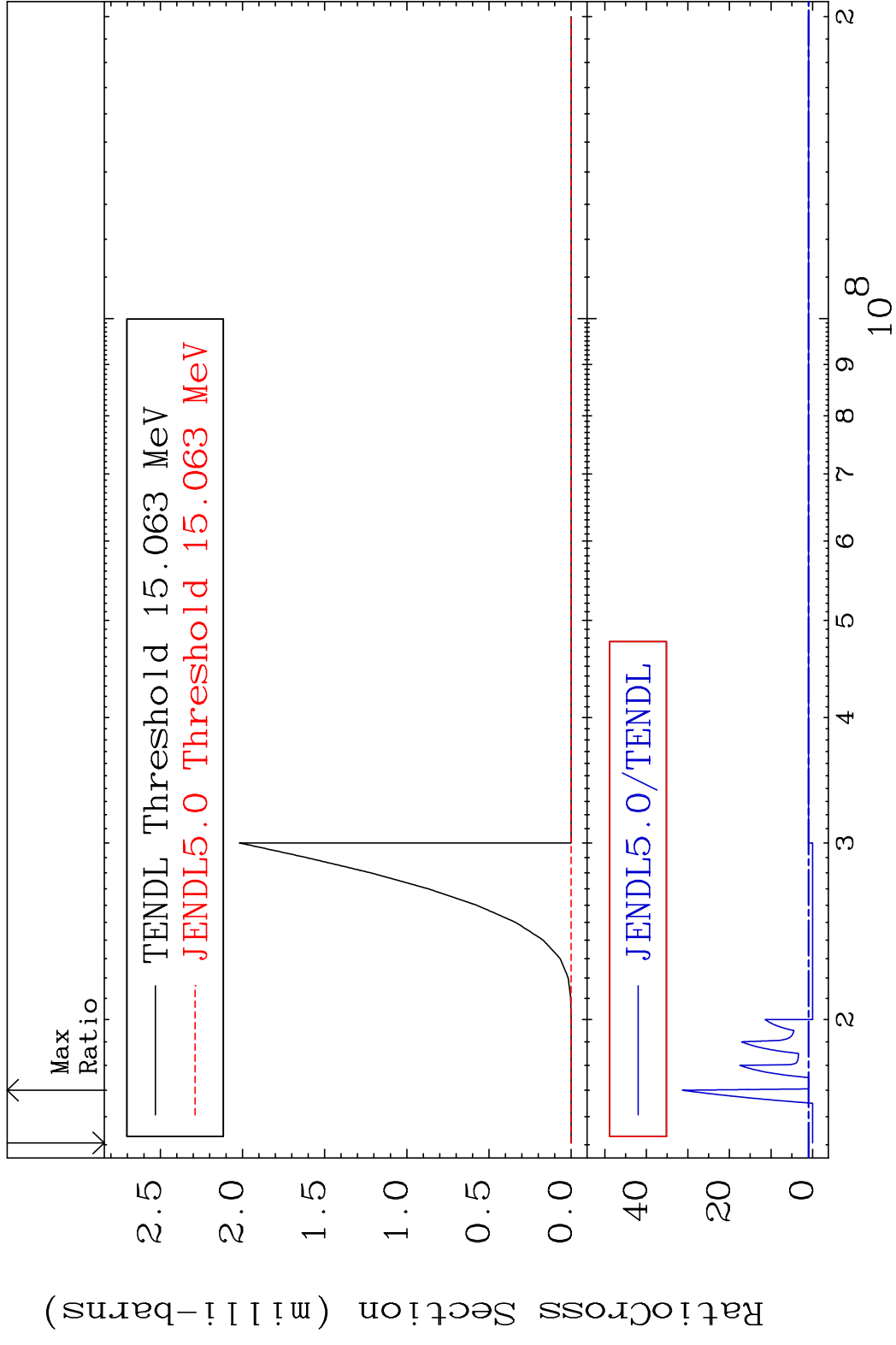




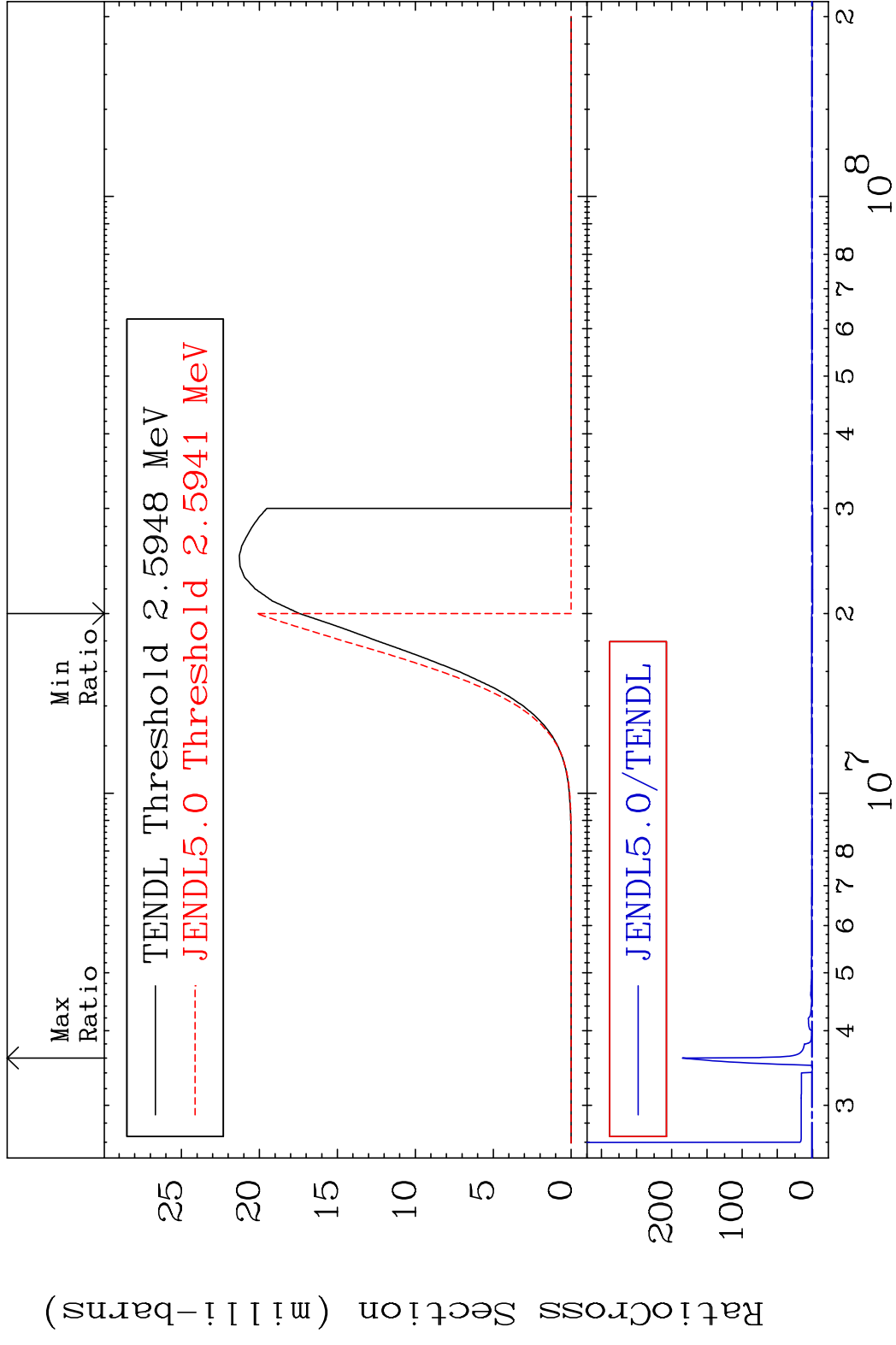
MAT 5053 (n, n') d:49-In-119g 50-Sn-121m  
 Radionuclide Production Cross Section 100% to 1015. %



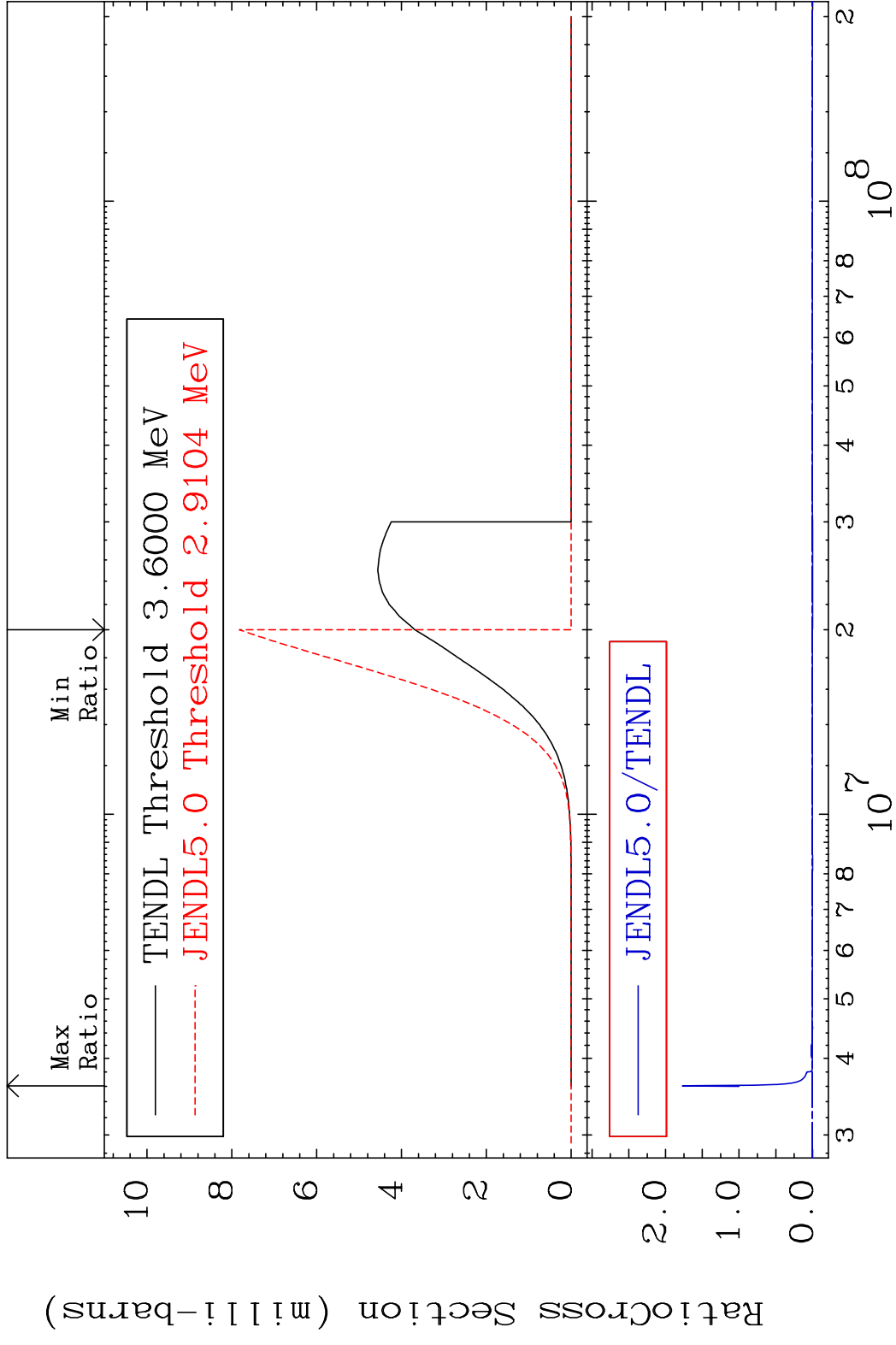
MAT 5053 (n, n') d:49-In-119m1 50-Sn-121m  
 Radionuclide Production Cross Section to 3033. %



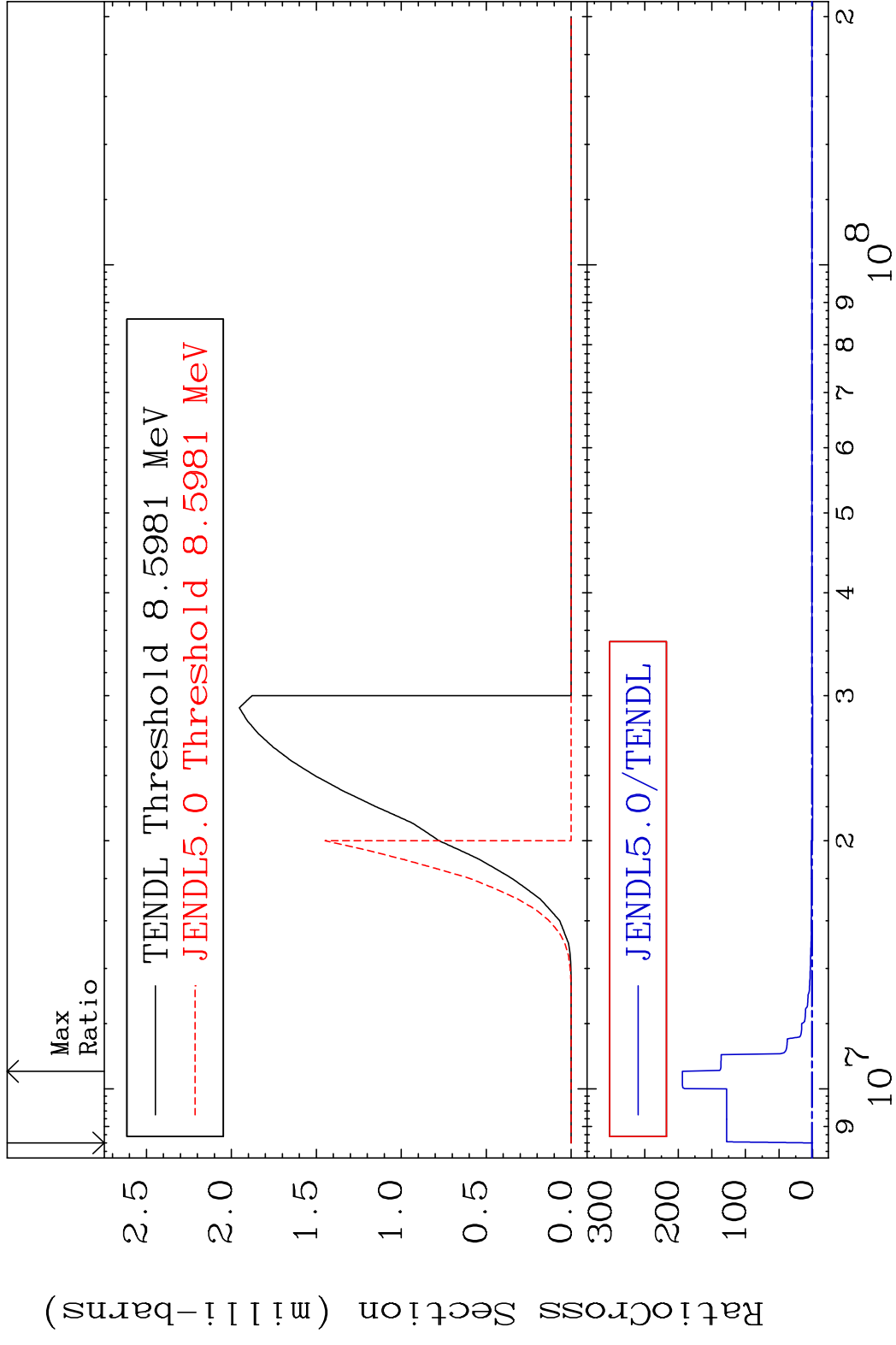
MAT 5053 (n,p):49-In-121g 50-Sn-121m  
 Radionuclide Production Cross Section to 9999. %



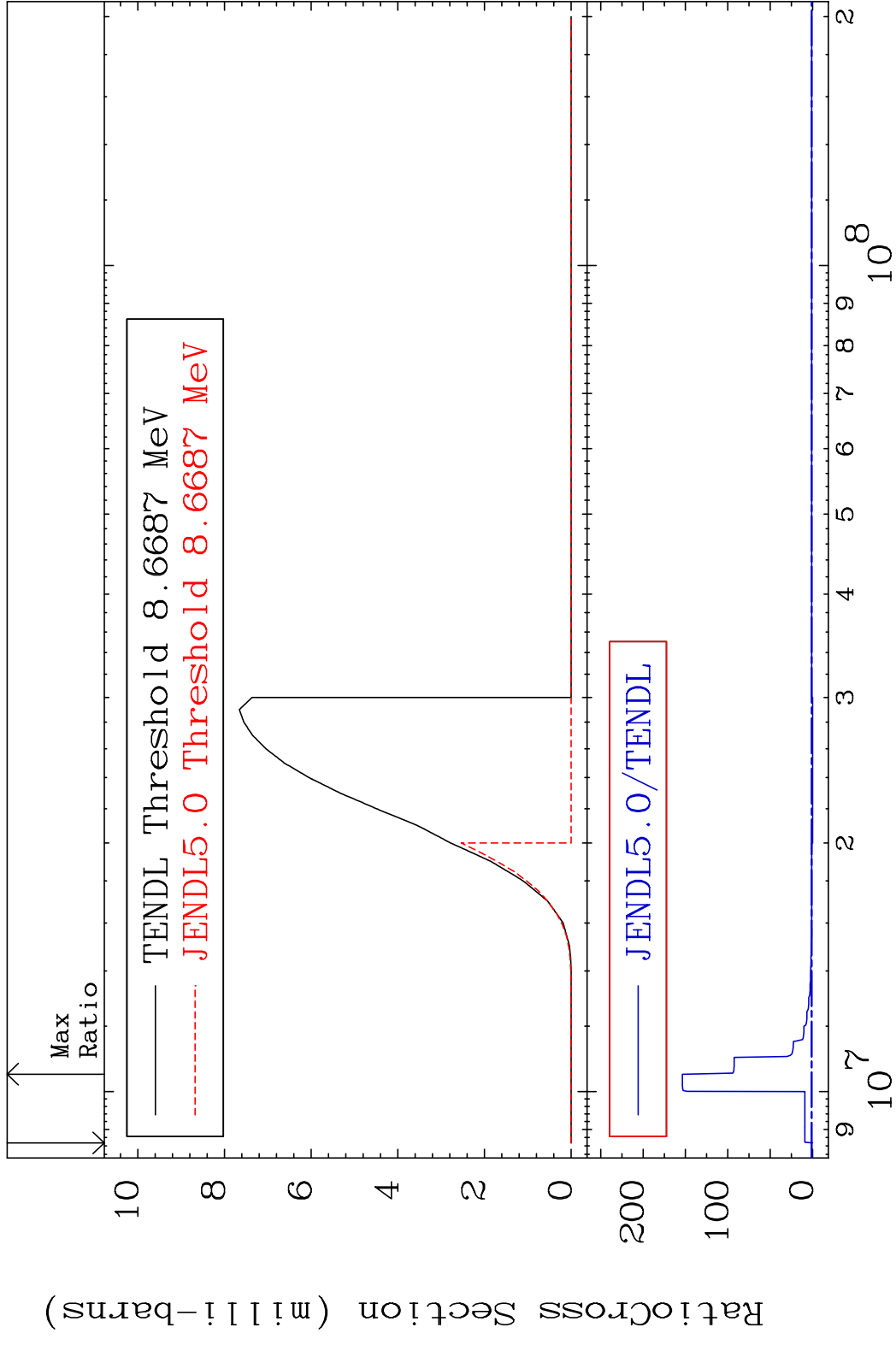
MAT 5053 (n,p):49-In-121m 50-Sn-121m  
 Radionuclide Production Cross Section to 9999. %



MAT 5053 (n,d):49-In-120g 50-Sn-121m  
 Radionuclide Production Cross Section to 9999. %

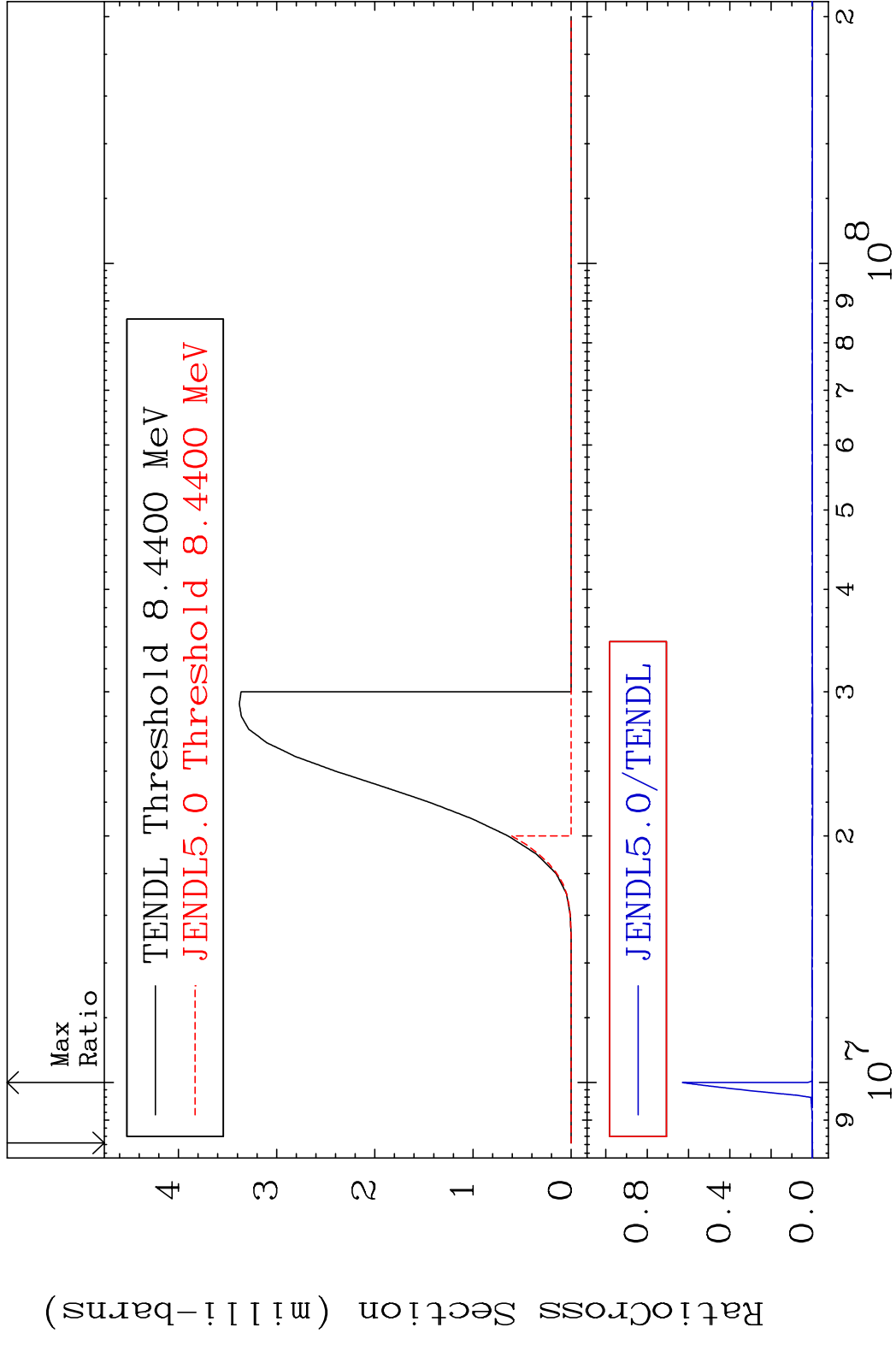


MAT 5053 (n, d): 49-In-120m1 50-Sn-121m  
 Radionuclide Production Cross Section to 9999. %



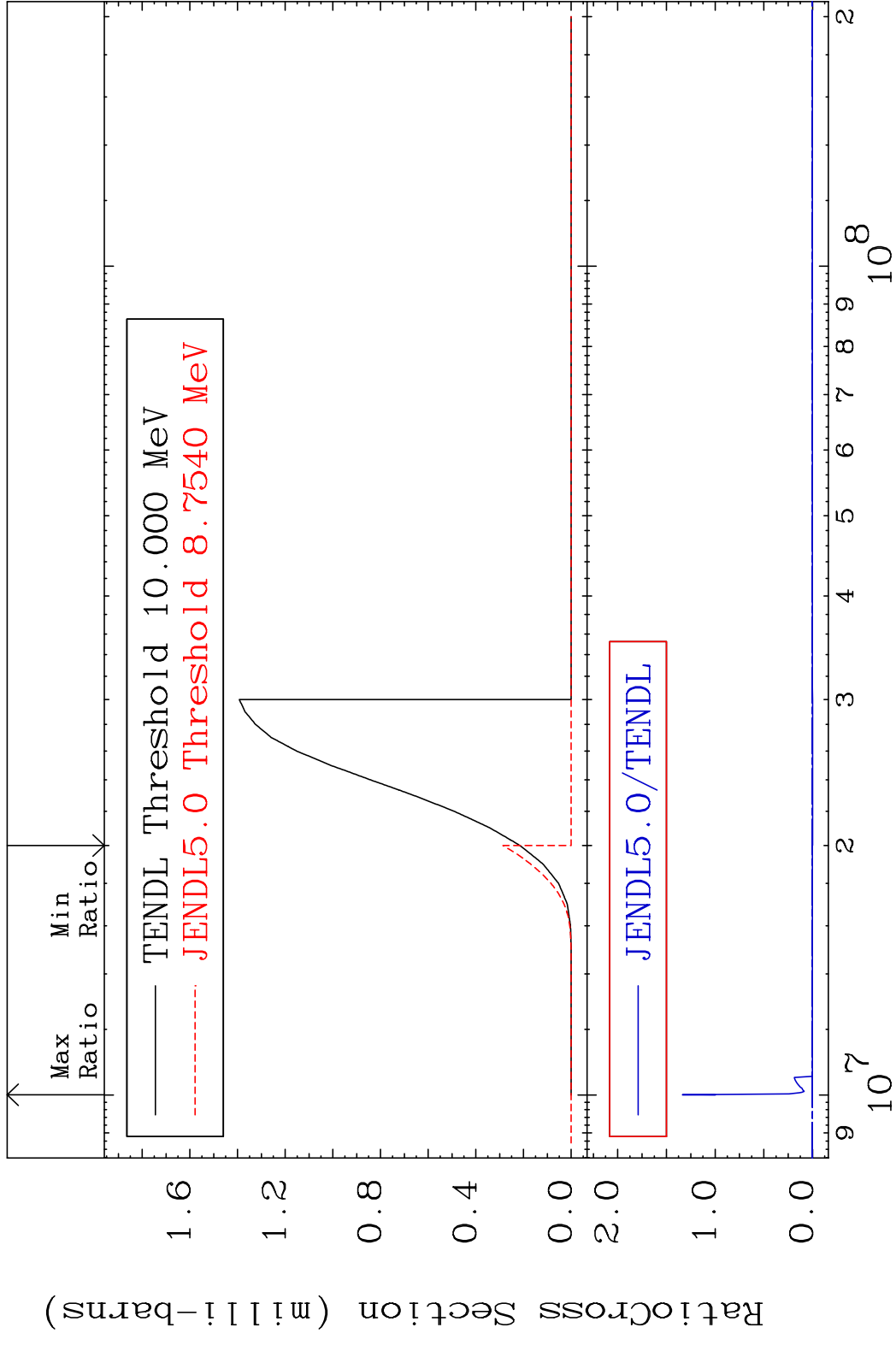
69 Incident Energy (eV) 50-Sn-121m

MAT 5053 (n,t):49-In-119g 50-Sn-121m  
 Radionuclide Production Cross Section to 9999. %



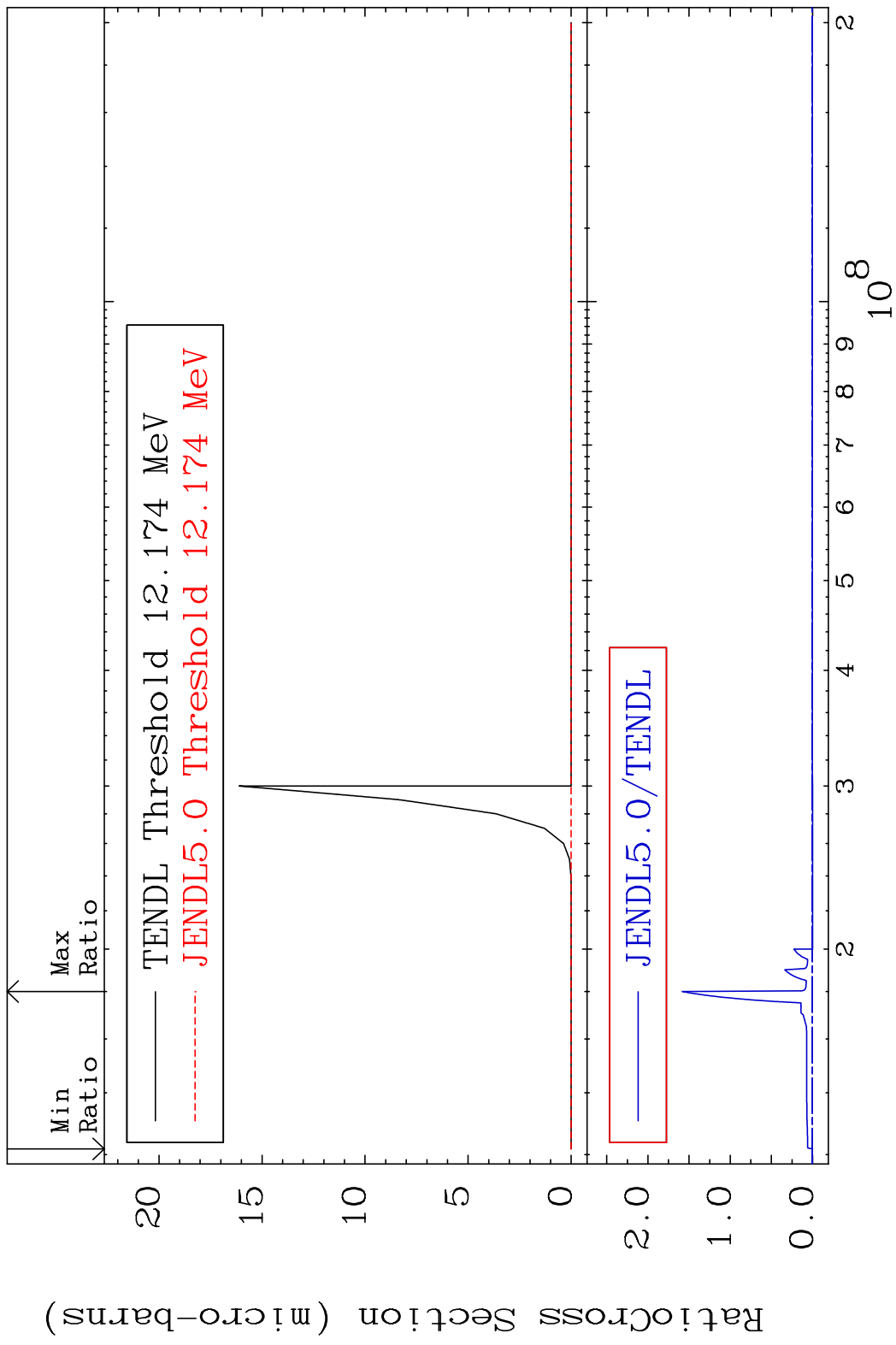
70 Incident Energy (eV) 50-Sn-121m

MAT 5053 (n, t): 49-In-119m1 50-Sn-121m  
 Radionuclide Production Cross Section to 9999. %





MAT 5053 (n, He-3): 48-Cd-119g 50-Sn-121m  
 Radionuclide Production Cross Section to 9999. %



MAT 5053 (n,He-3):48-Cd-119m2 50-Sn-121m  
 Radionuclide Production Cross Section to 9999. %

