

Program Complot  
(Version 2021-1)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550

U.S.A.

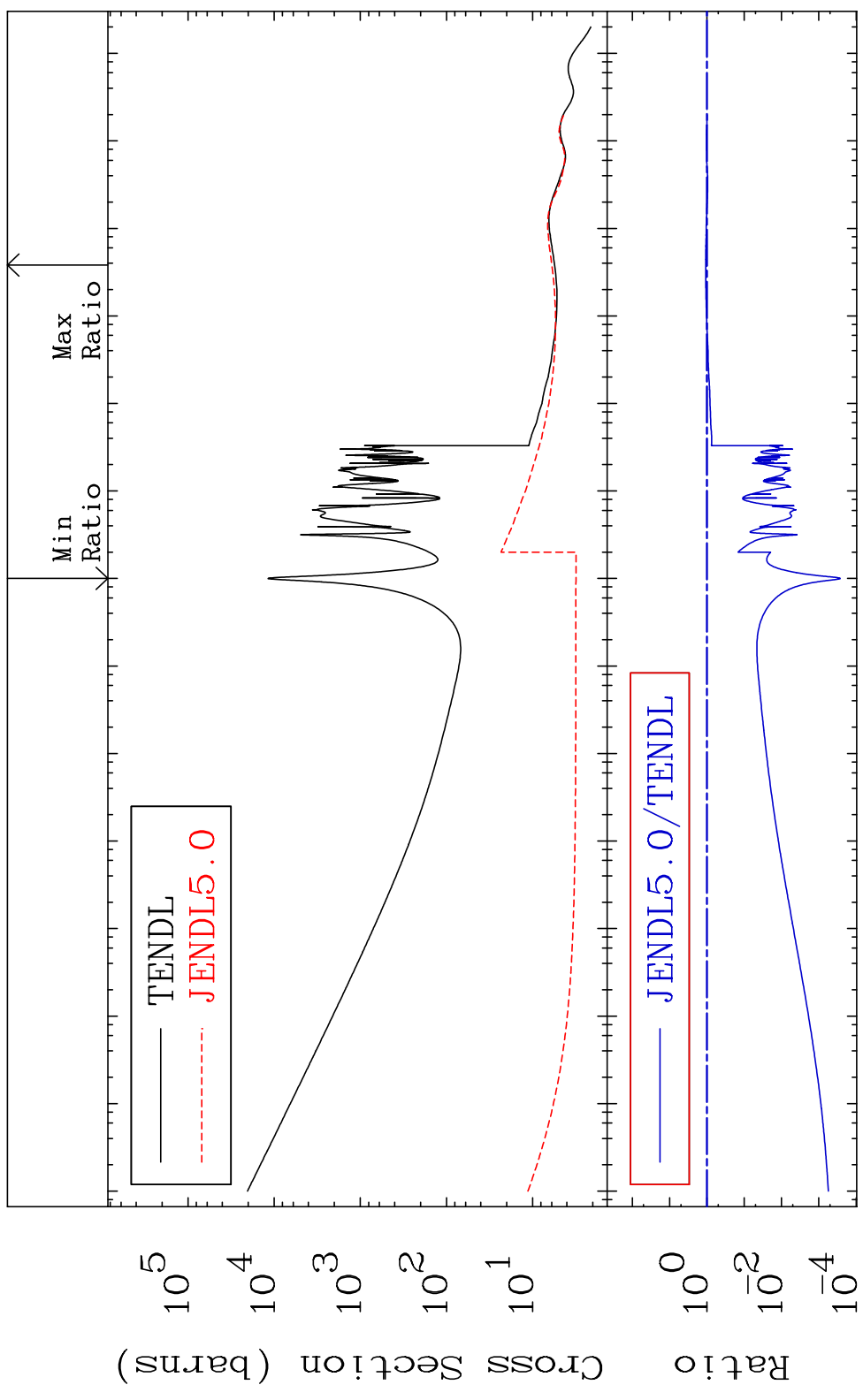
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 5259

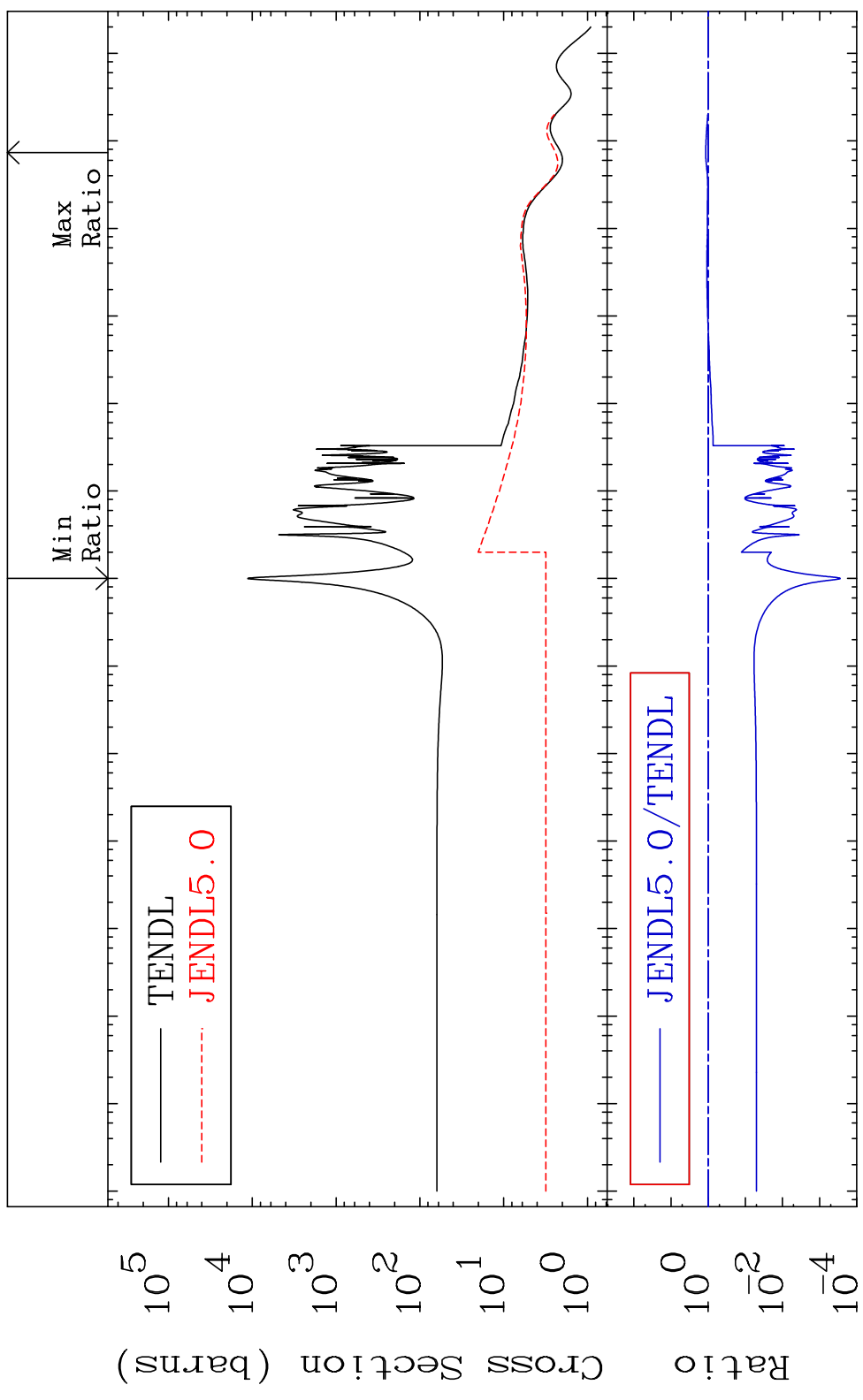
Total Cross Section  
52-Te-131m  
-99.97 To 7.903 %



1 Incident Energy (eV) 52-Te-131m

MAT 5259

Elastic Cross Section 52-Te-131m  
-99.97 To 16.23 %



2 Incident Energy (eV) 52-Te-131m

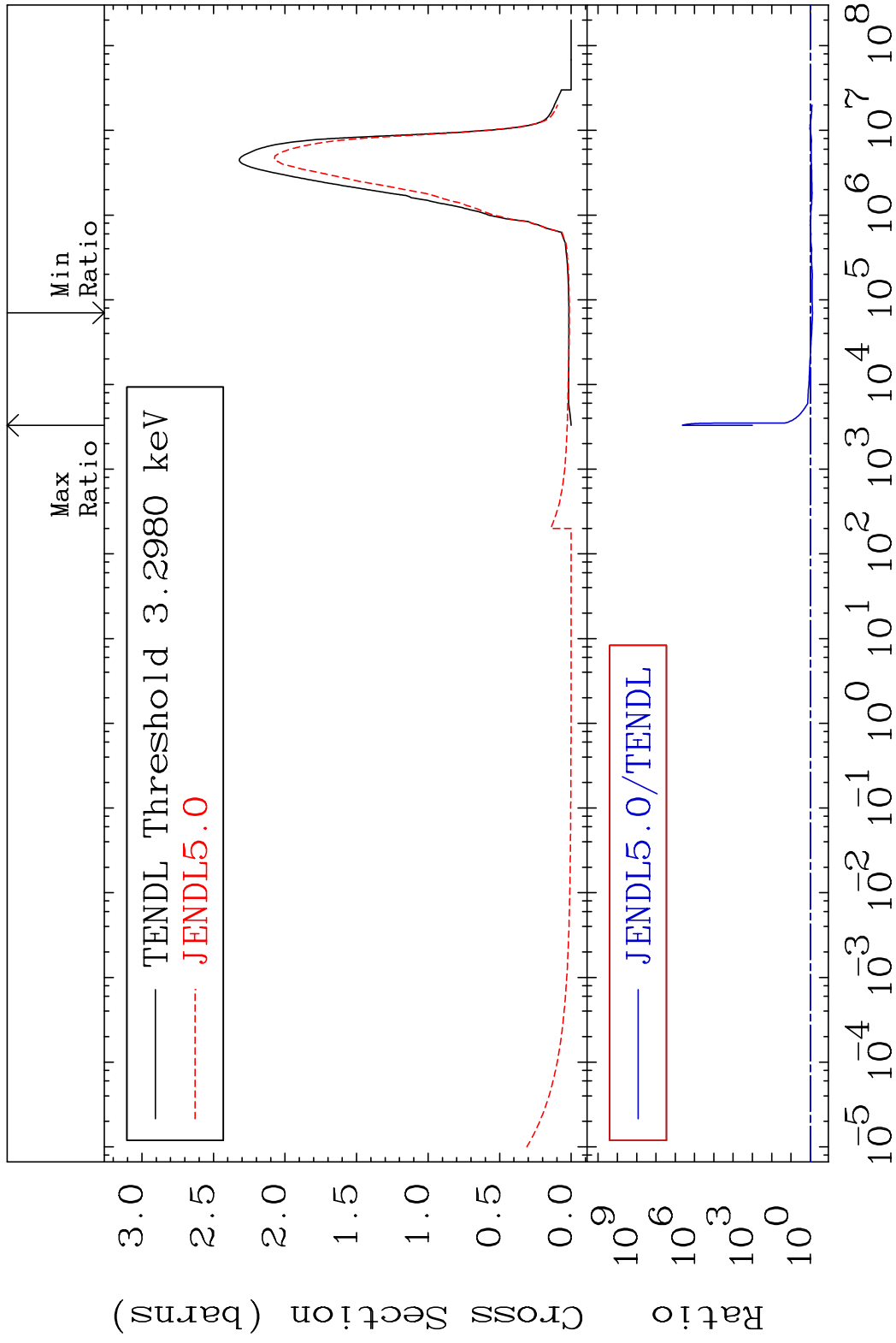
MAT 5259

Inelastic

52-Te-131m

Cross Section

-23.72 To 9999. %



3

Incident Energy (eV)

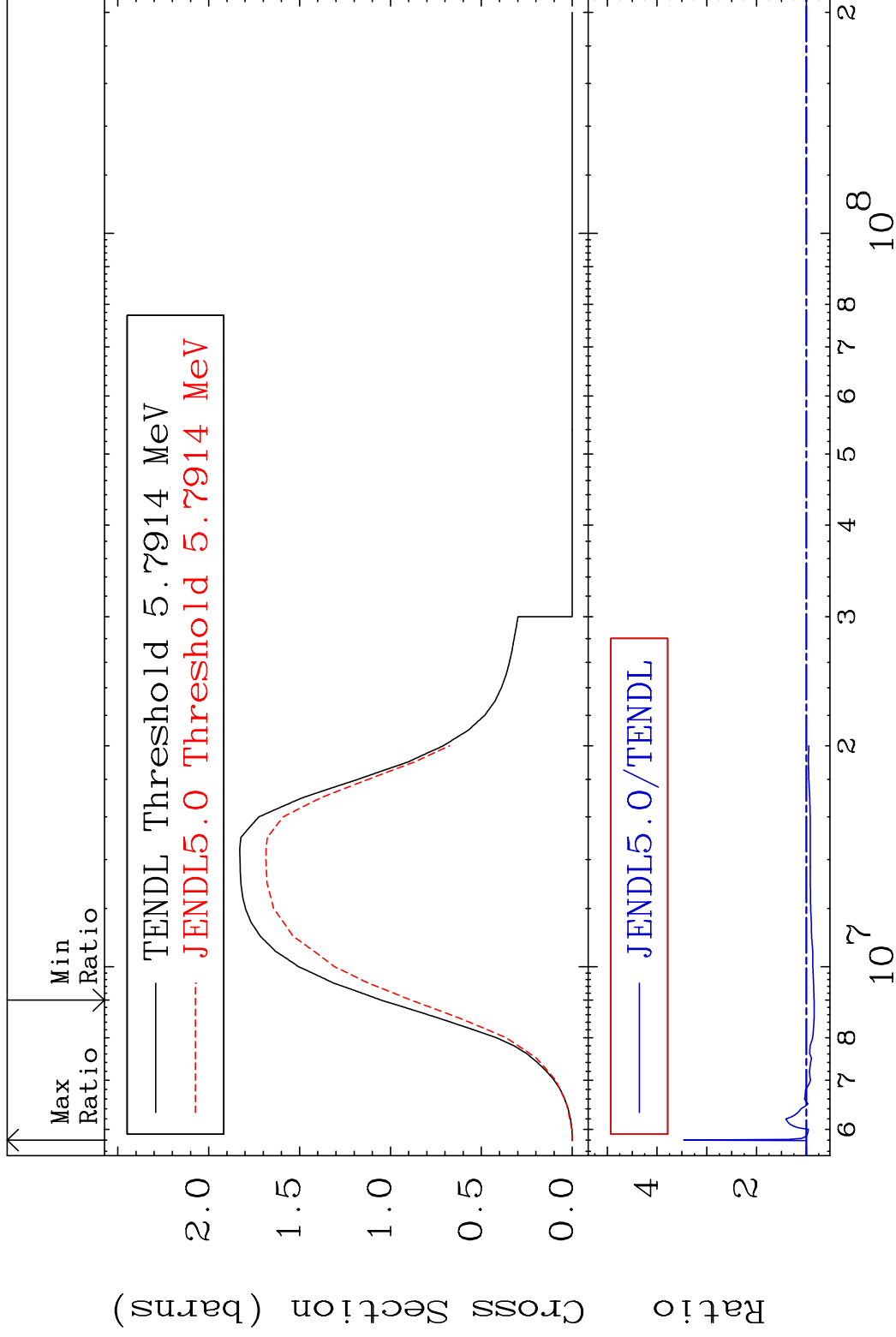
52-Te-131m

MAT 5259

(n,2n)

52-Te-131m

Cross Section -15.61 To 246.5 %



4

Incident Energy (eV)

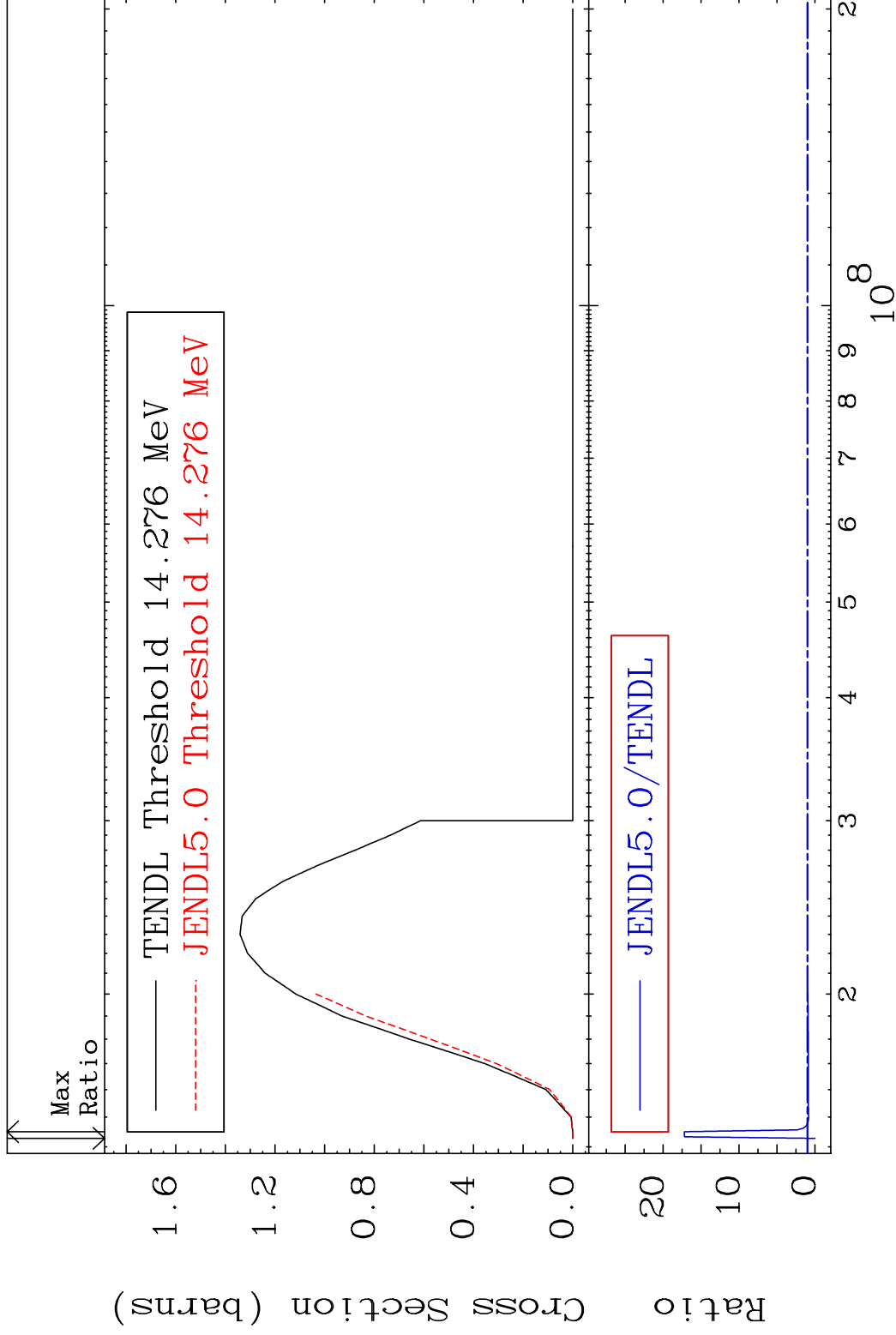
52-Te-131m

MAT 5259

(n,3n)

52-Te-131m

Cross Section -100.0 To 1621. %



5

Incident Energy (eV)

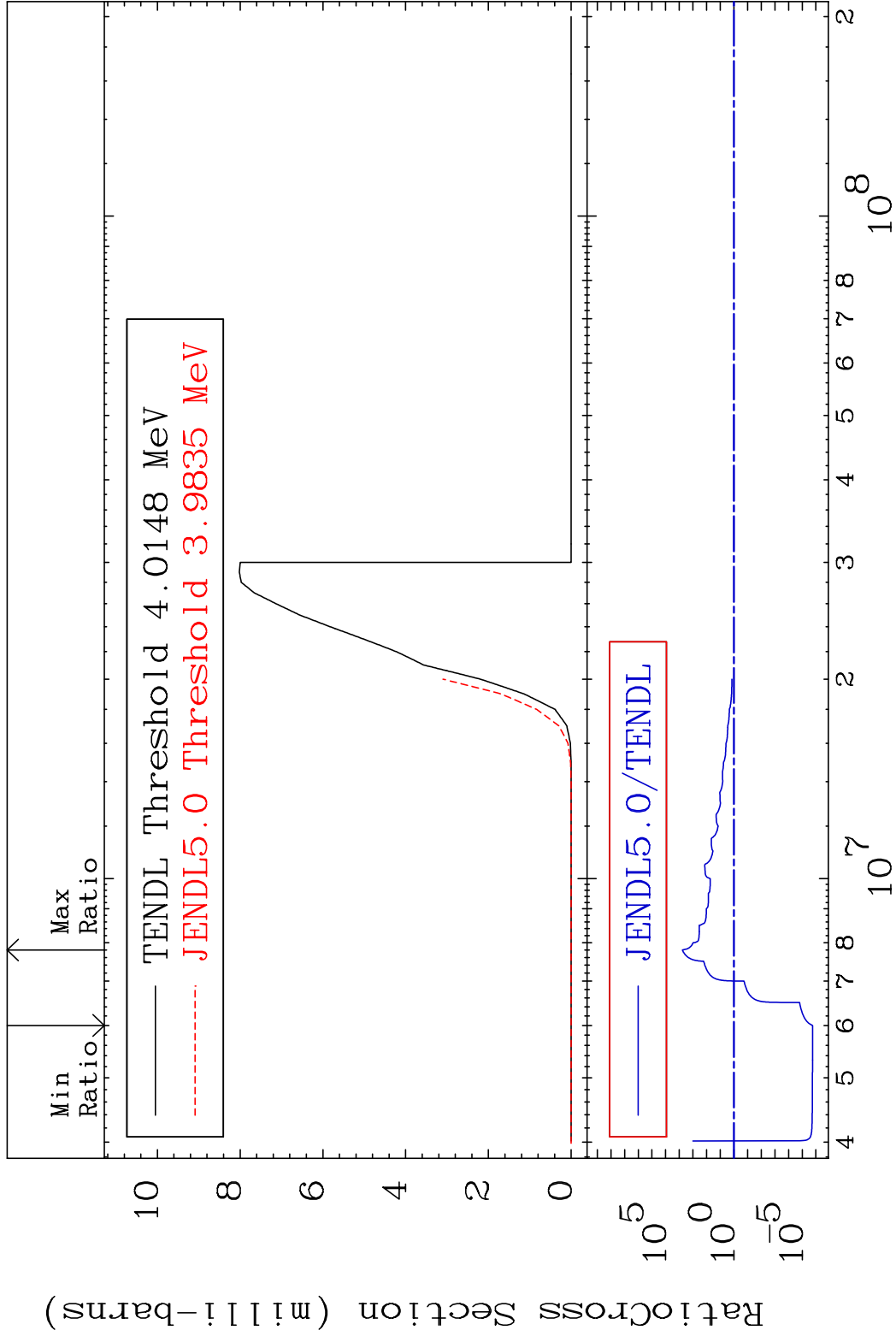
52-Te-131m

MAT 5259

(n, n')  $\alpha$

52-Te-131m

Cross Section -100.0 To 9999. %



6

Incident Energy (eV)

52-Te-131m

MAT 5259

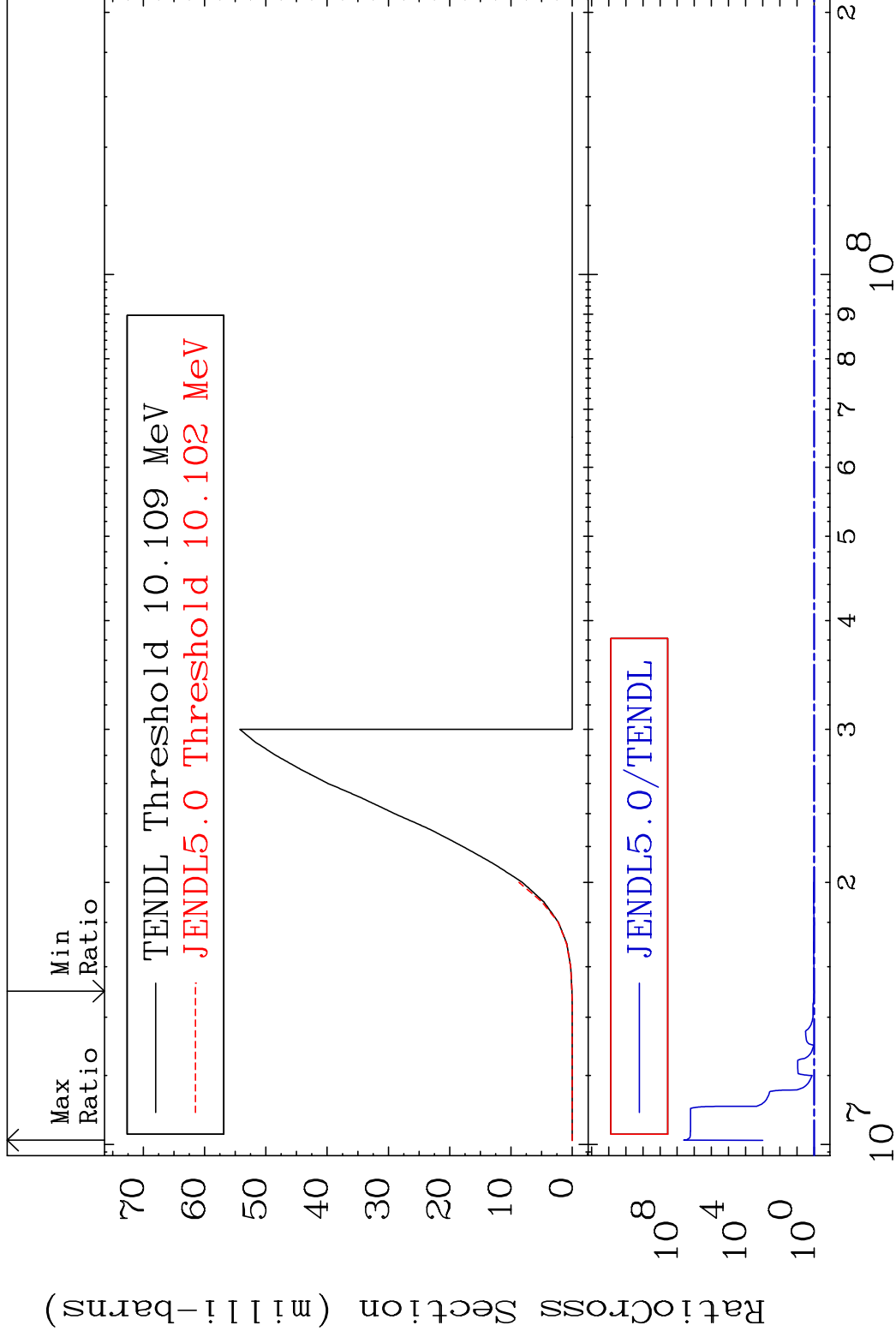
(n, n') p

52-Te-131m

Cross Section

0.299

To 9999. %



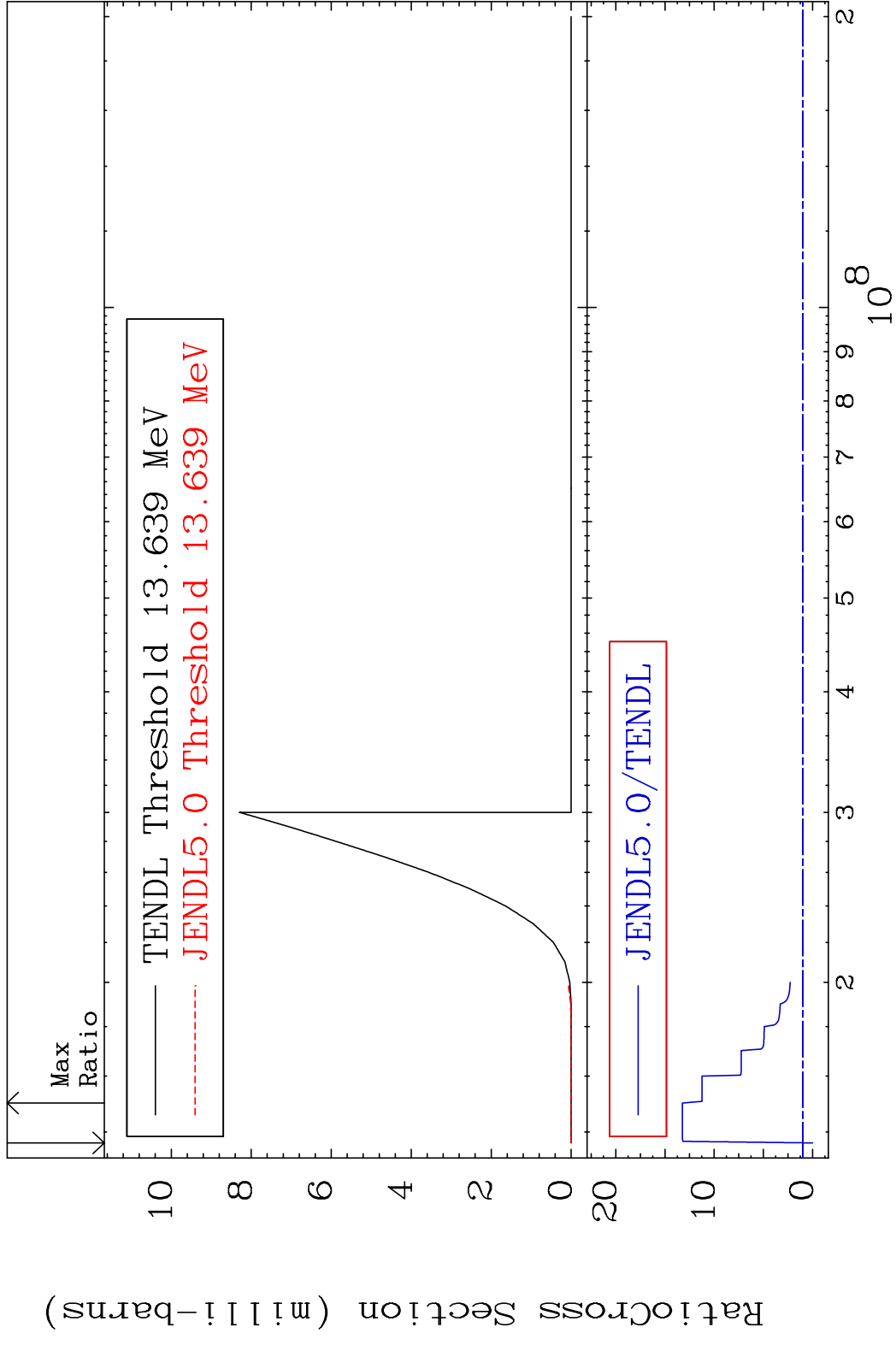
7

Incident Energy (eV)

52-Te-131m

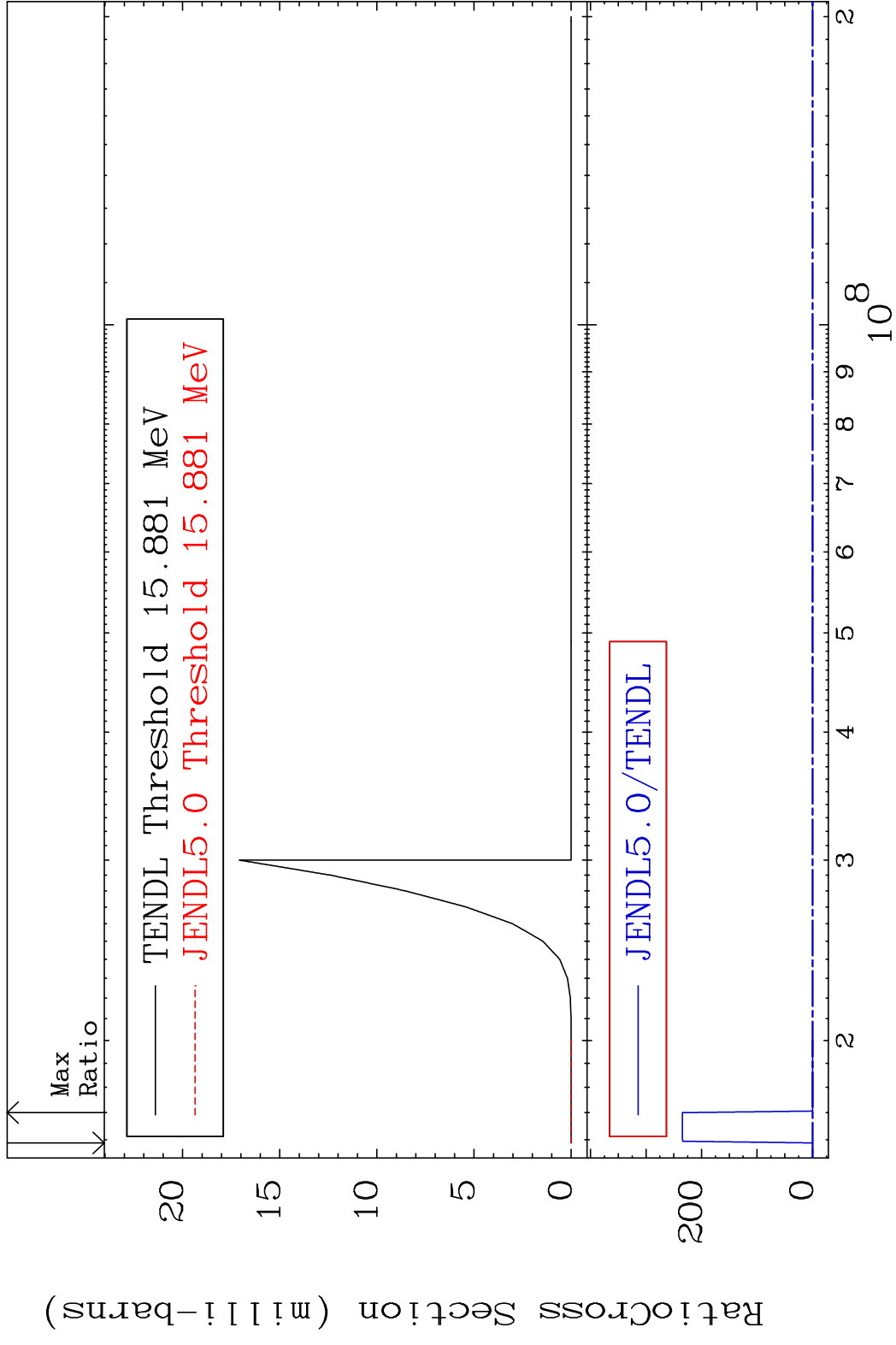


MAT 5259 (n, n') d 52-Te-131m  
 Cross Section -100.0 To 1223. %



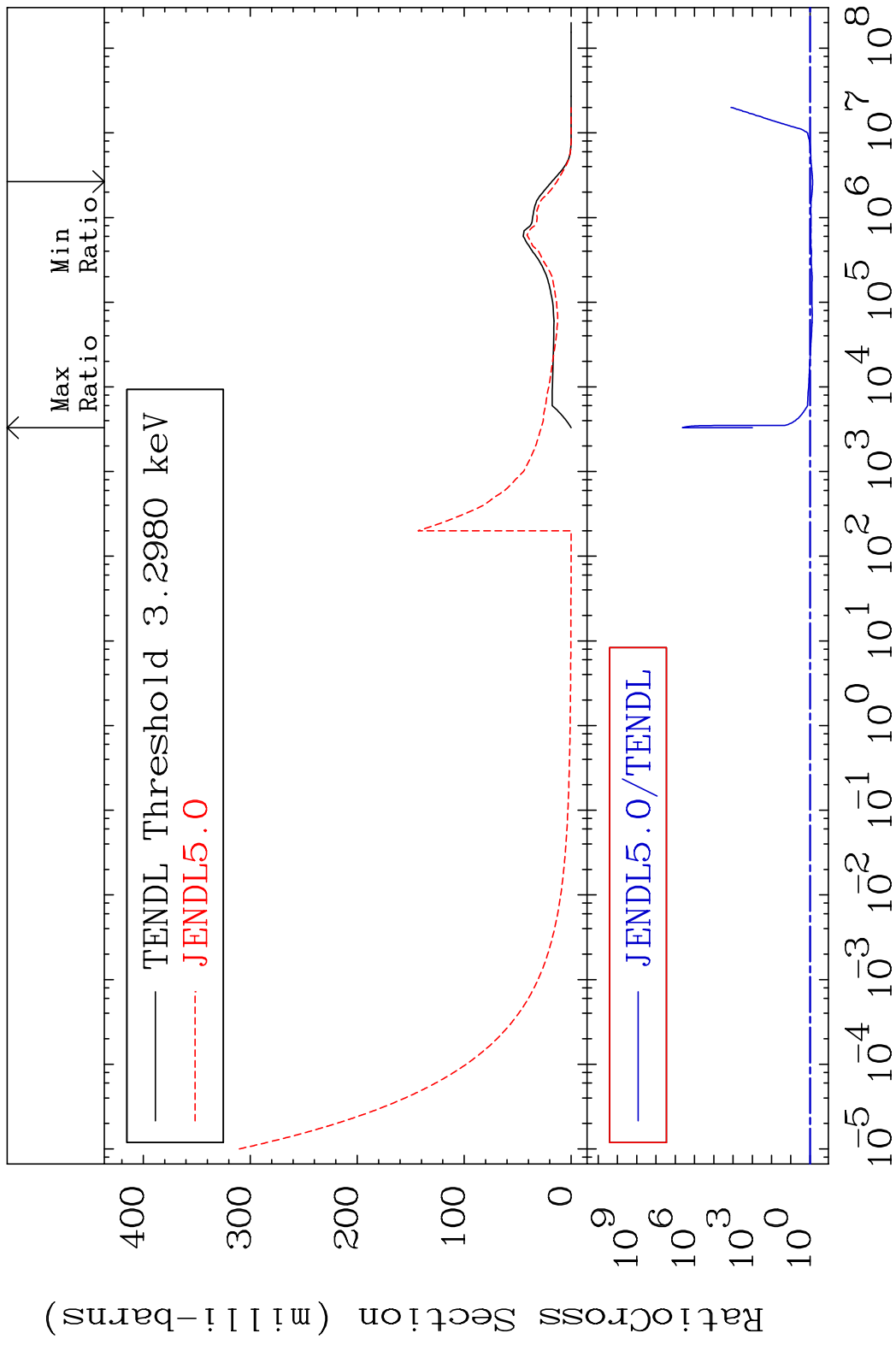
8 Incident Energy (eV) 52-Te-131m

MAT 5259 (n,2n) p 52-Te-131m  
 Cross Section -100.0 To 9999. %

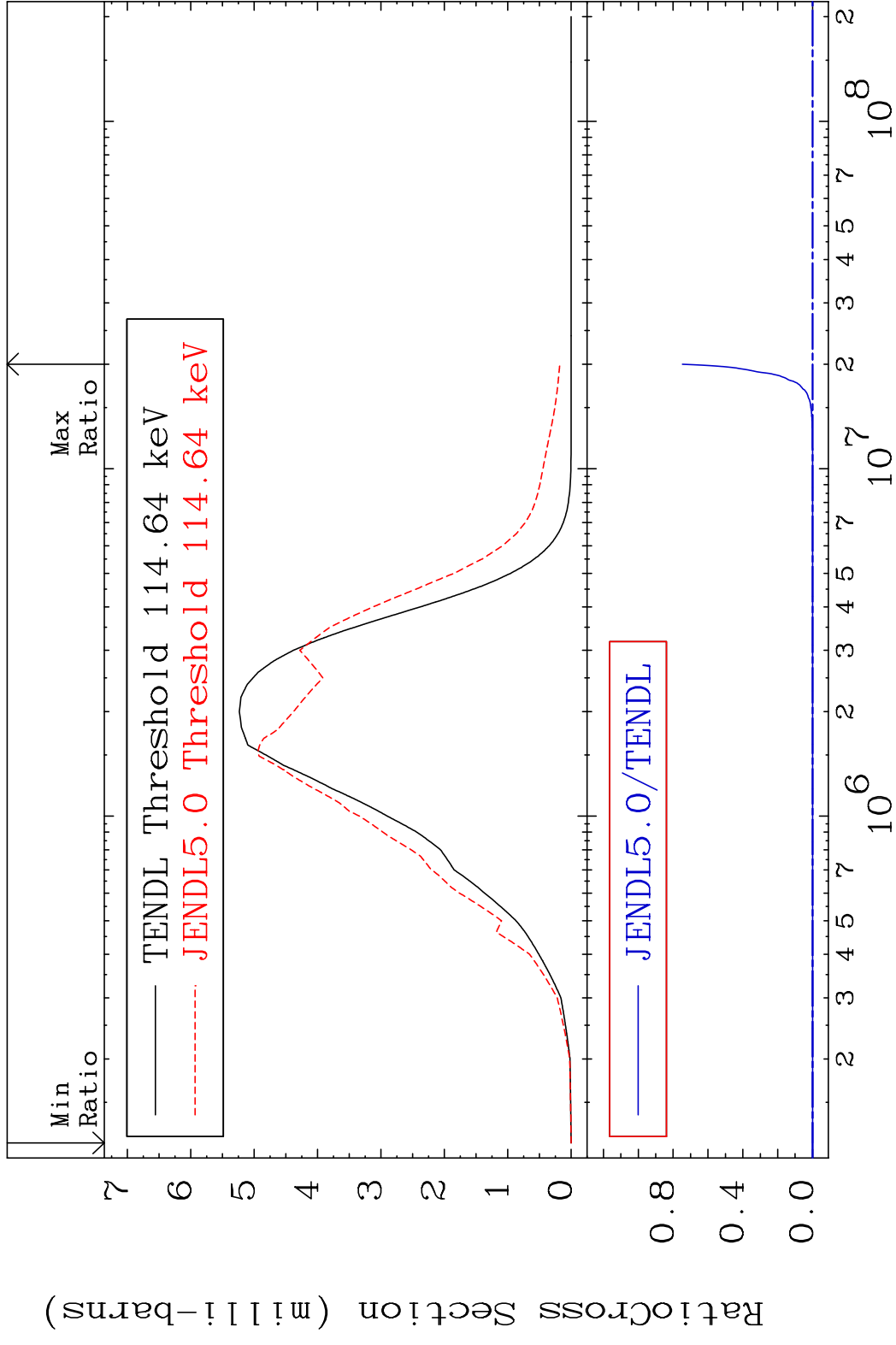


9 Incident Energy (eV) 52-Te-131m

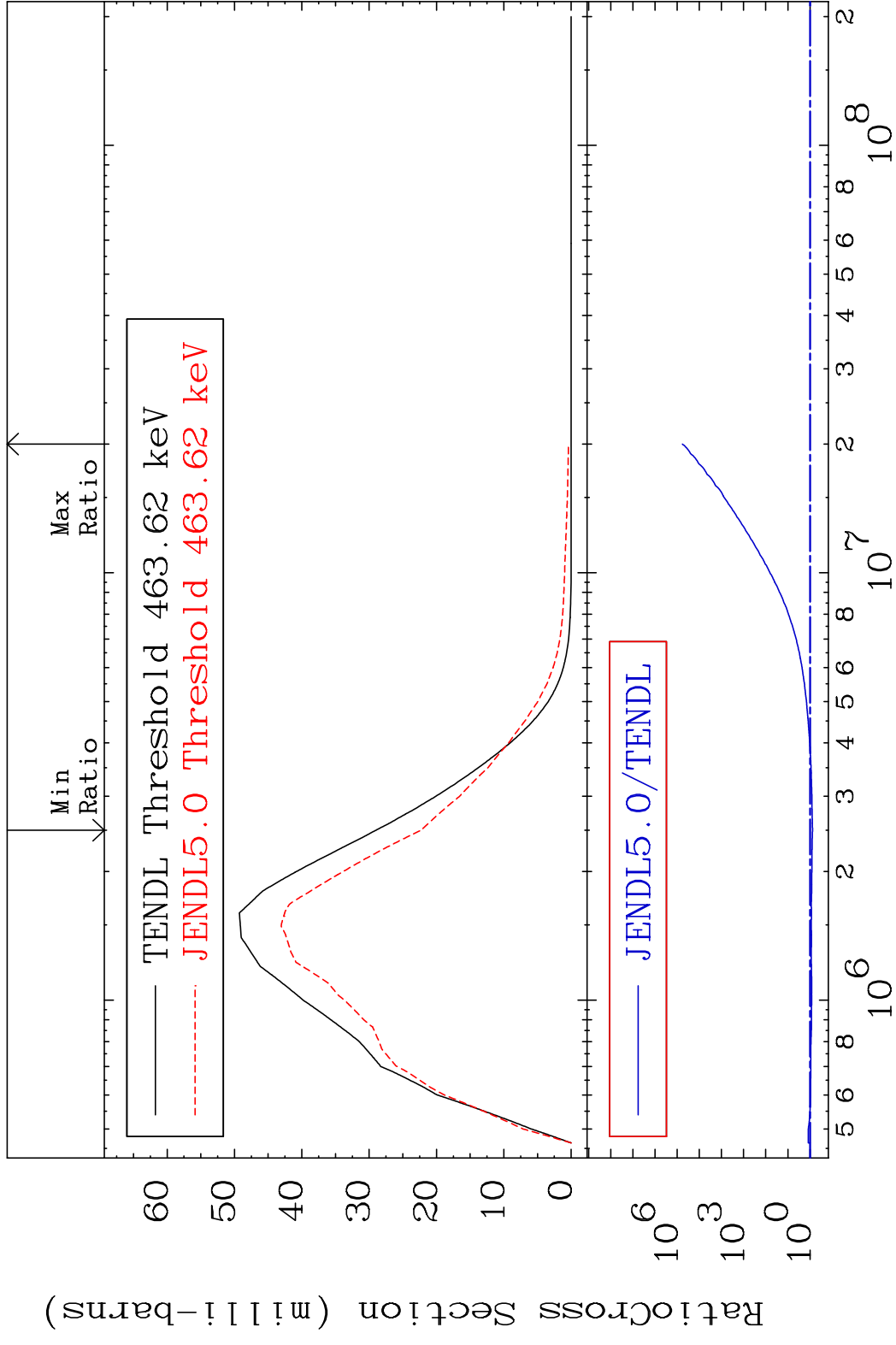
MAT 5259 MT= 51 (n,n') Level 52-Te-131m  
 Cross Section -25.81 To 9999. %



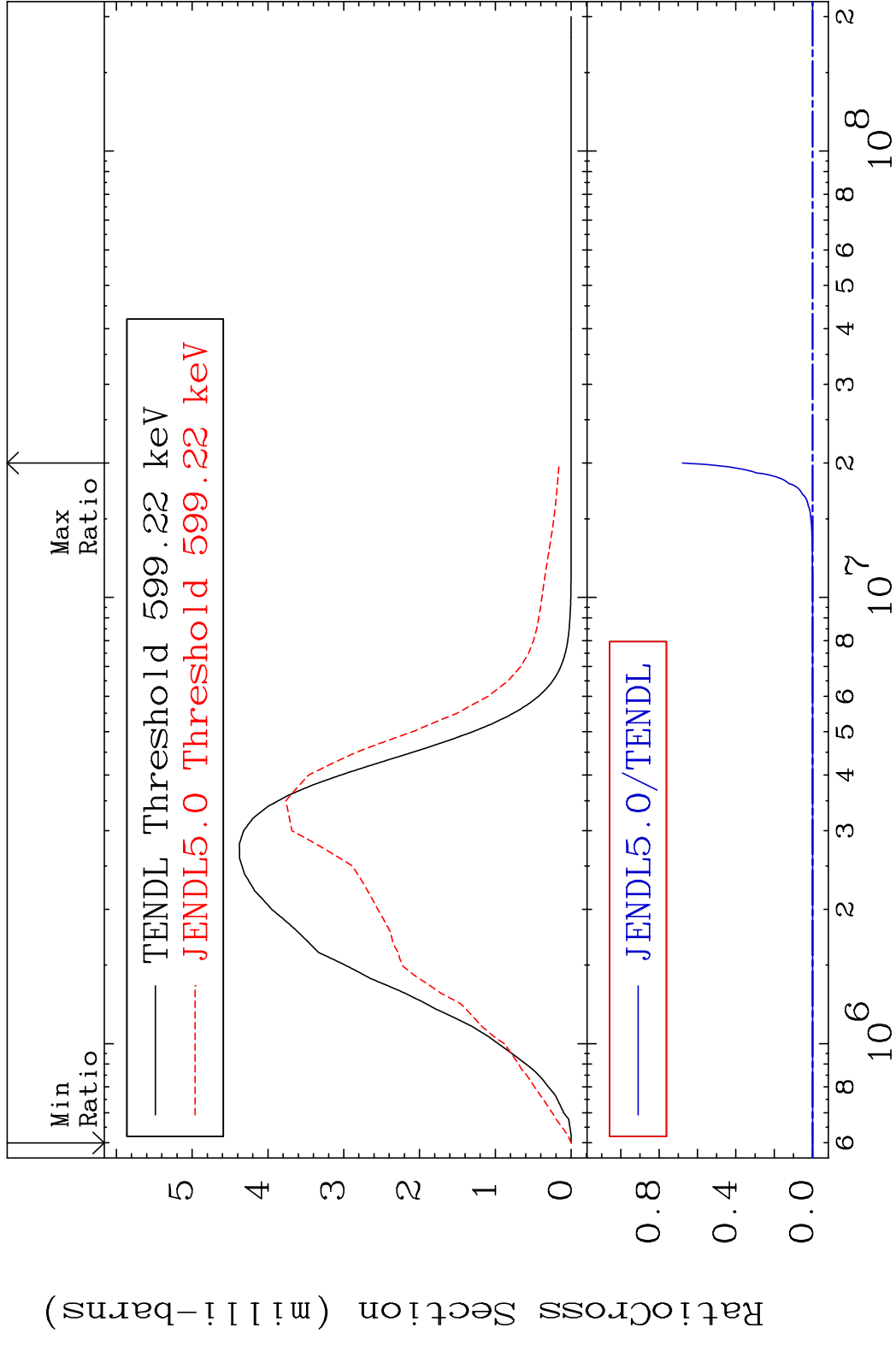
MAT 5259 MT= 52 (n, n') Level 52-Te-131m  
 Cross Section -100.0 To 9999. %



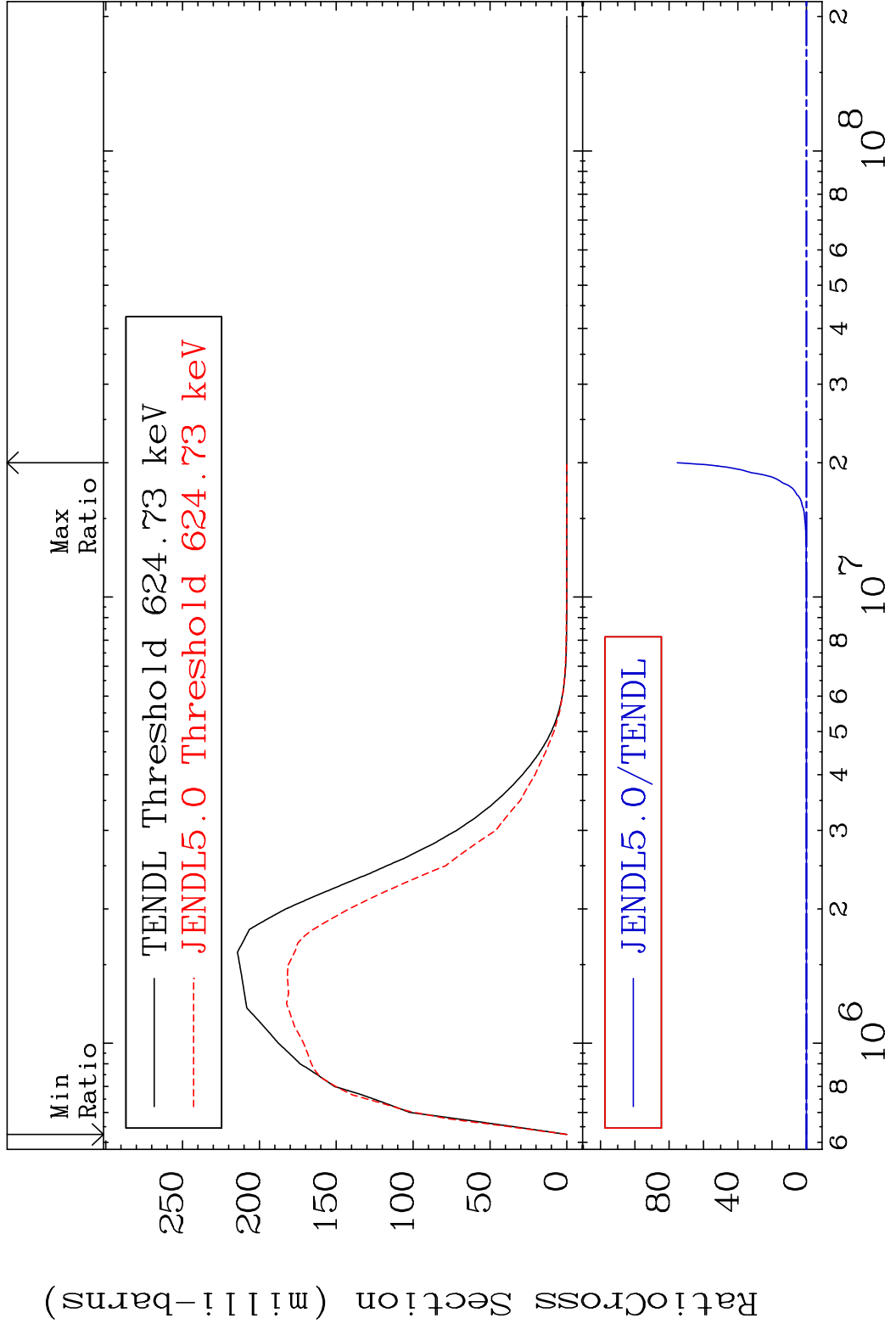
MAT 5259 MT= 53 (n, n') Level 52-Te-131m  
 Cross Section -23.16 To 9999. %



MAT 5259 MT= 54 (n, n') Level 52-Te-131m  
 Cross Section -100.0 To 9999. %

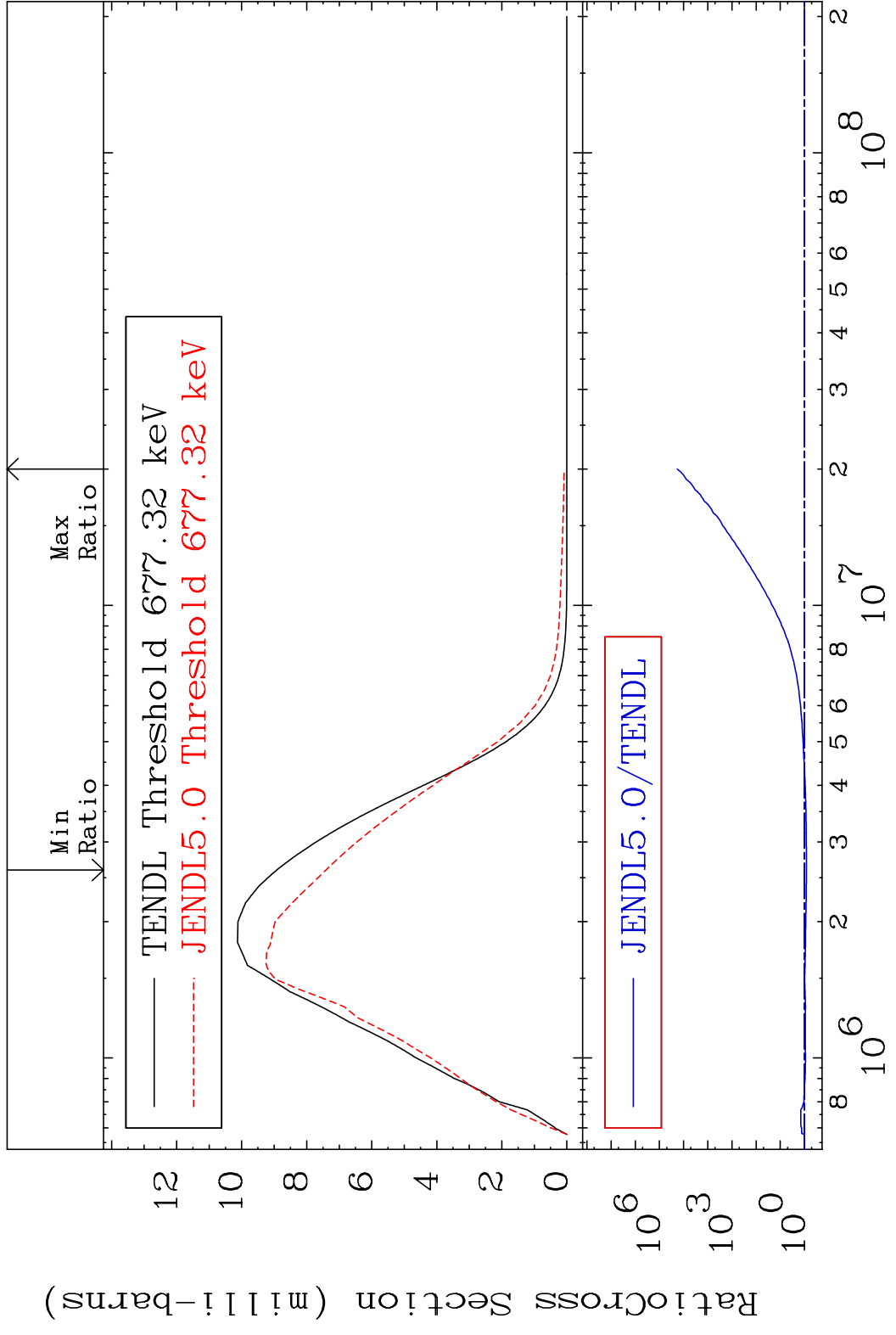


MAT 5259 MT= 55 (n, n') Level 52-Te-131m  
 Cross Section -100.0 To 9999. %



14 Incident Energy (eV) 52-Te-131m

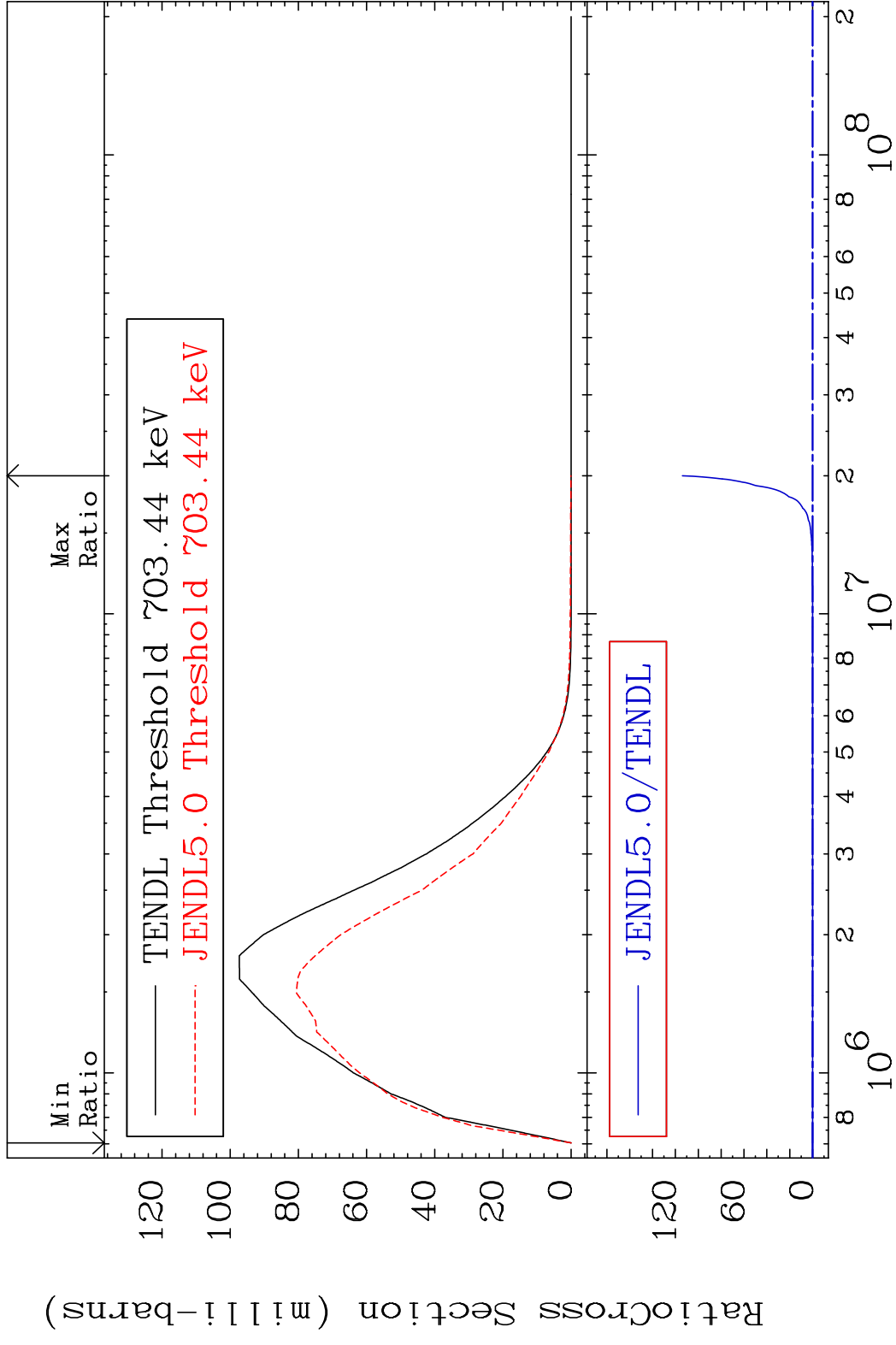
MAT 5259 MT= 56 (n, n') Level 52-Te-131m  
 Cross Section -16.97 To 9999. %



15 Incident Energy (eV) 52-Te-131m

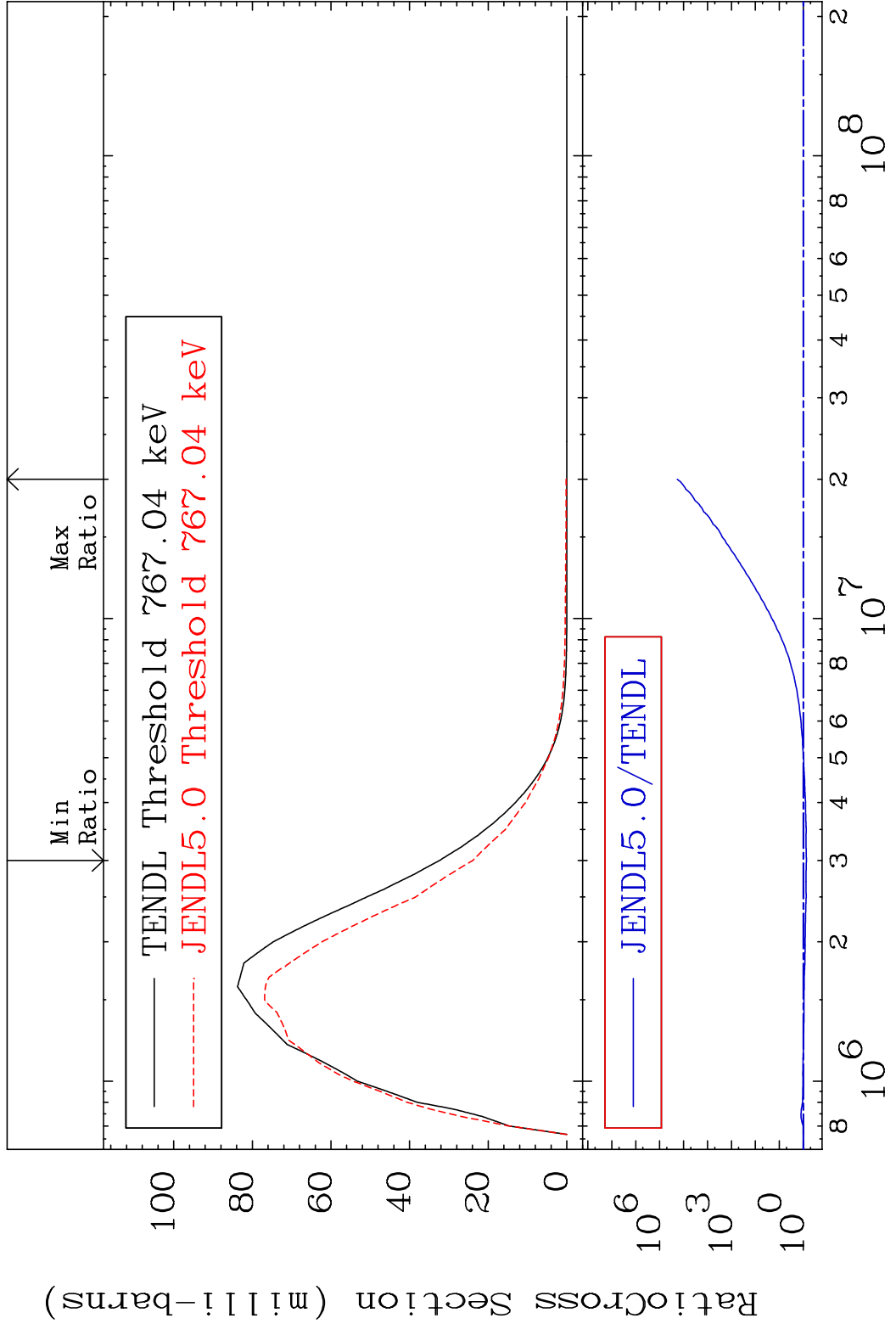


MAT 5259 MT= 57 (n, n') Level 52-Te-131m  
 Cross Section -100.0 To 9999. %



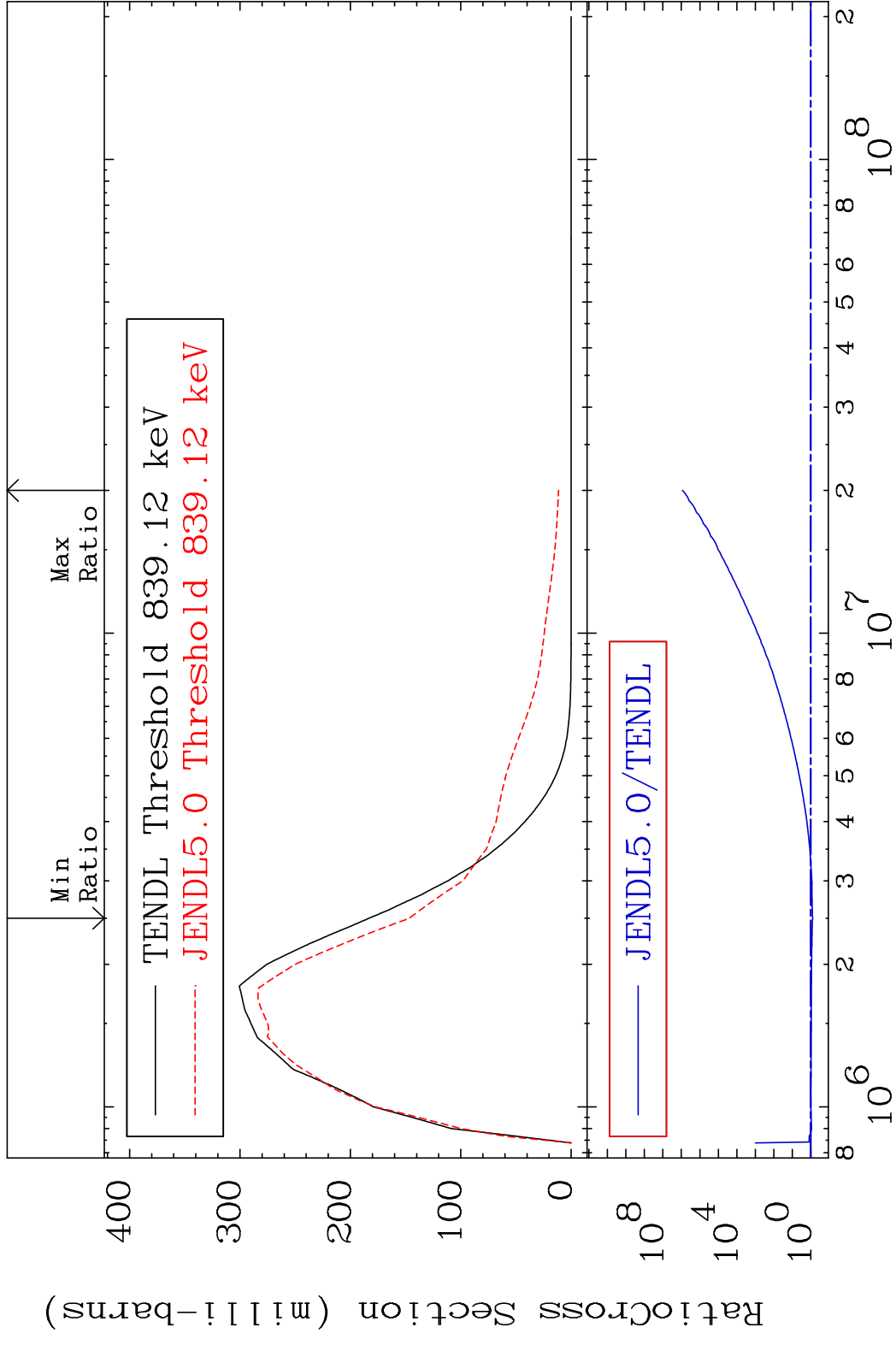
16 Incident Energy (eV) 52-Te-131m

MAT 5259 MT= 58 (n, n') Level 52-Te-131m  
 Cross Section -26.10 To 9999. %



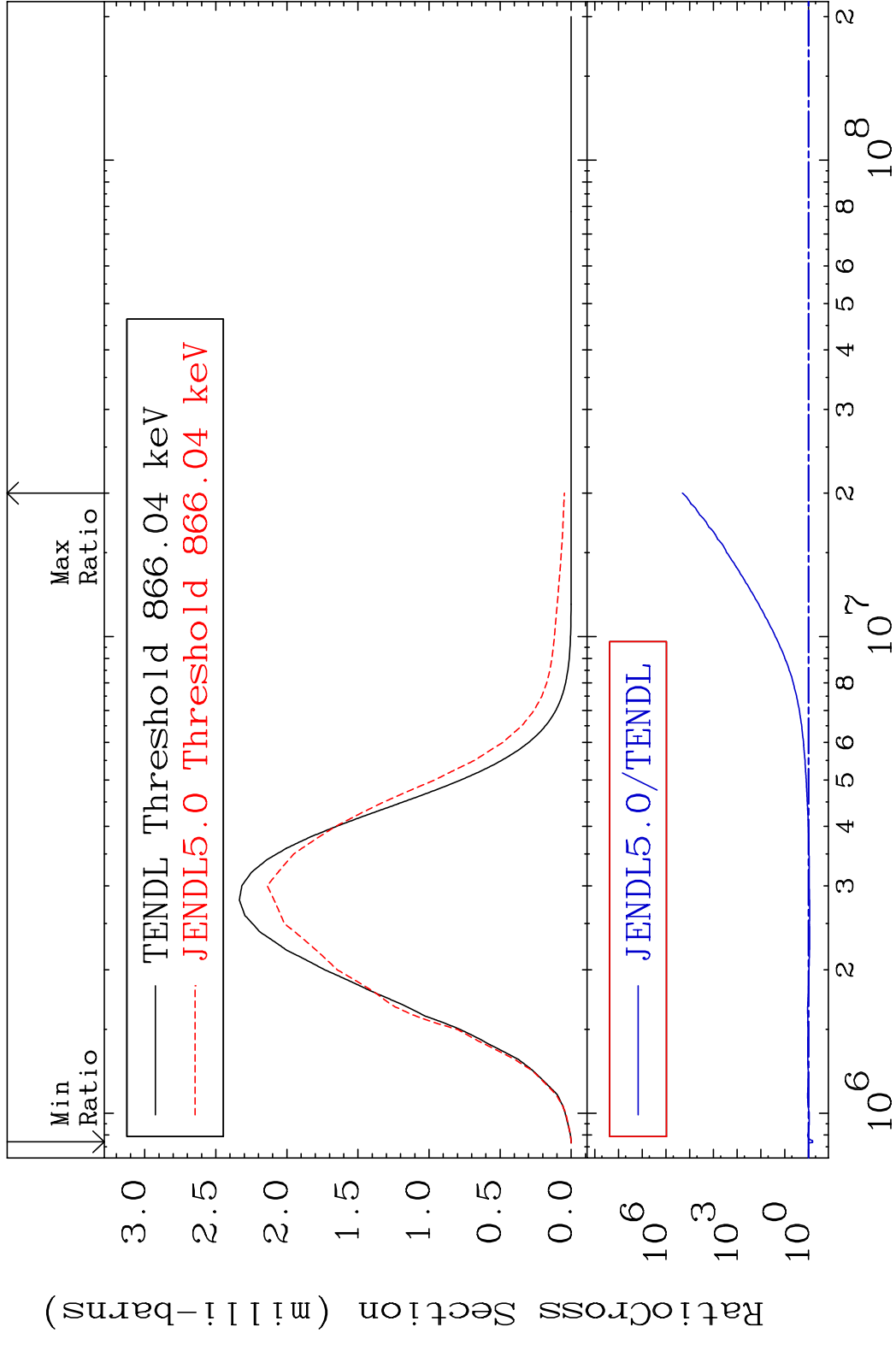
17 Incident Energy (eV) 52-Te-131m

MAT 5259 MT= 59 (n, n') Level 52-Te-131m  
 Cross Section -19.96 To 9999. %



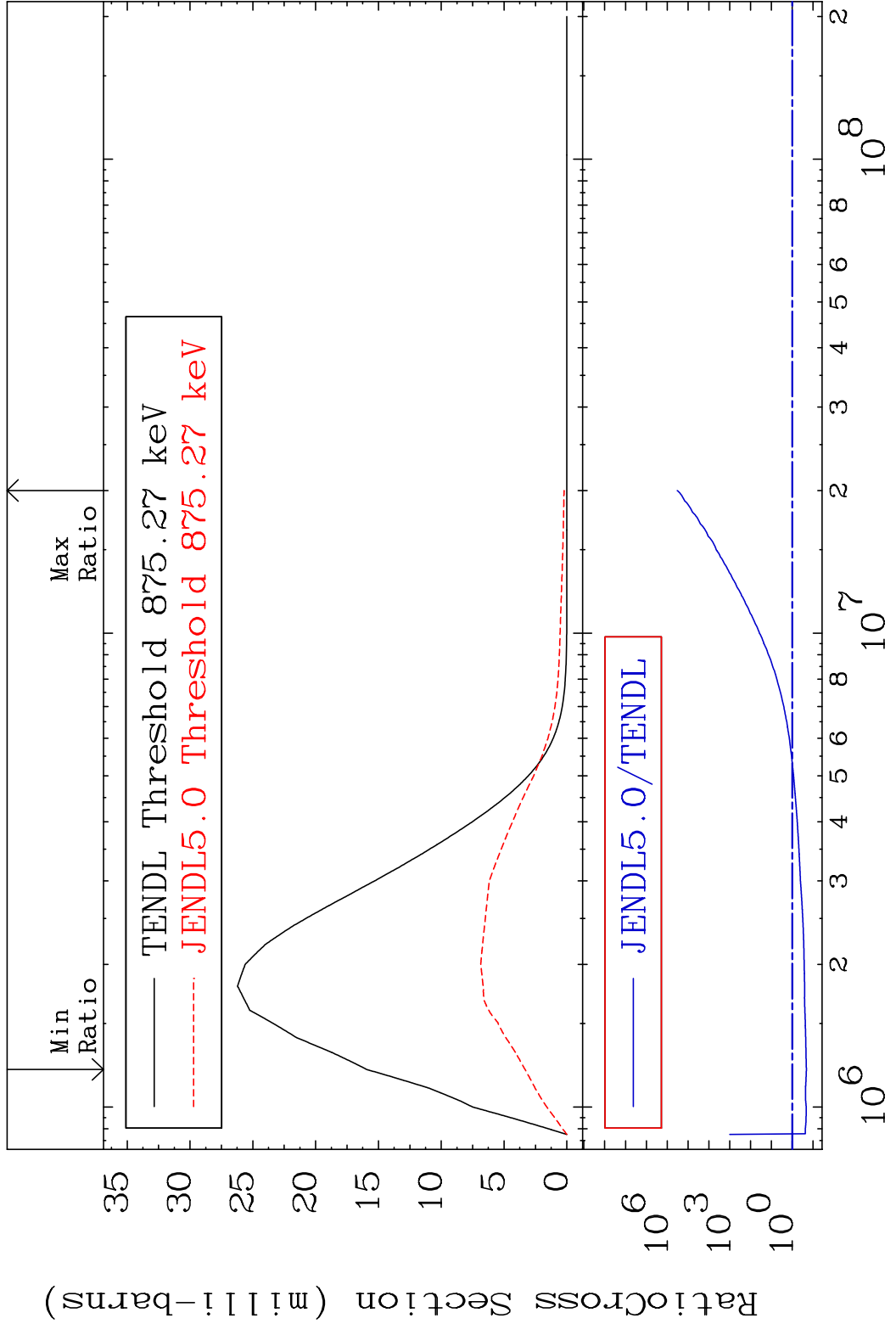
18 Incident Energy (eV) 52-Te-131m

MAT 5259 MT= 60 (n, n') Level 52-Te-131m  
 Cross Section -33.19 To 9999. %



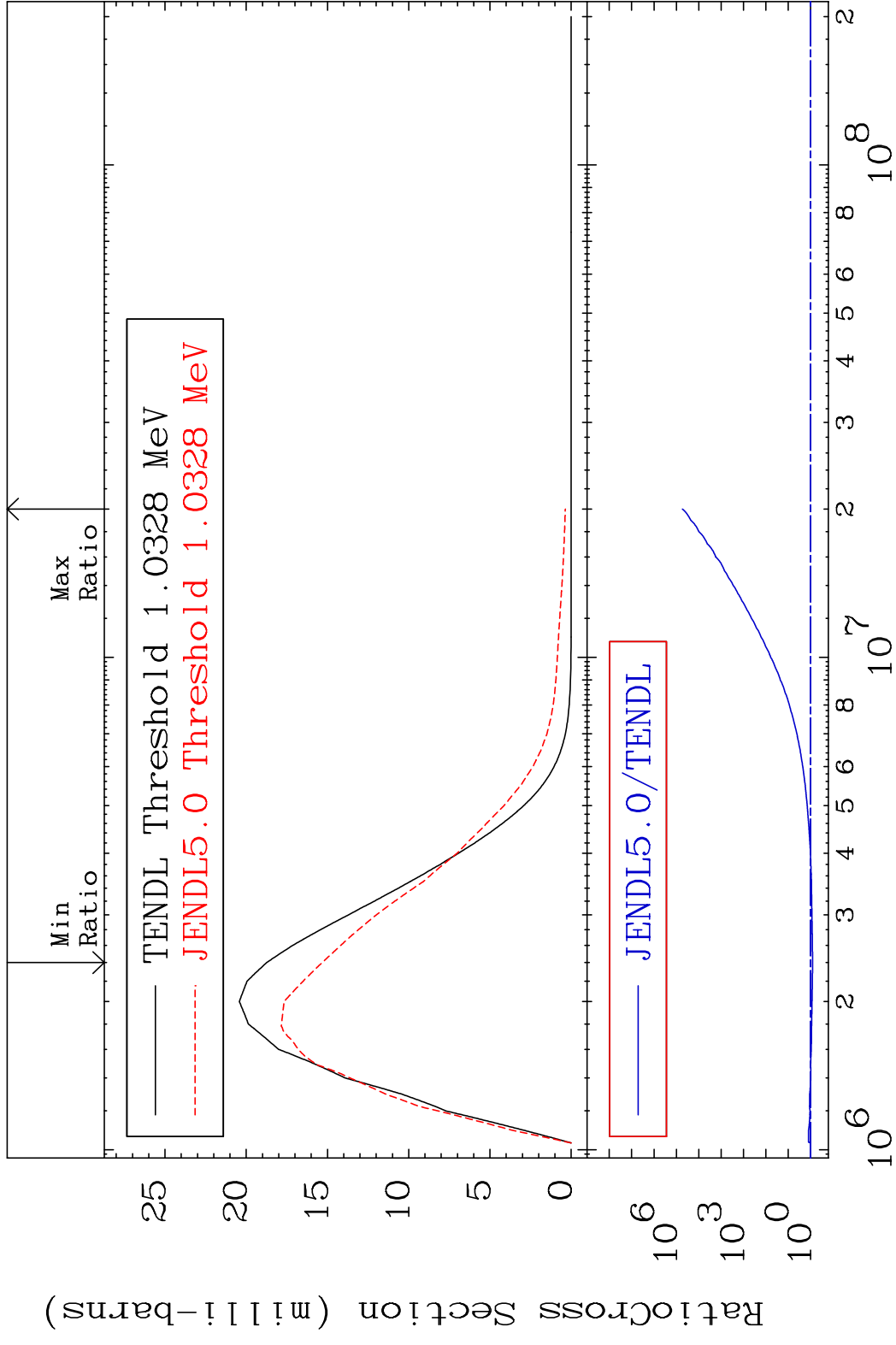
19 Incident Energy (eV) 52-Te-131m

MAT 5259 MT= 61 (n, n') Level 52-Te-131m  
 Cross Section -79.11 To 9999. %



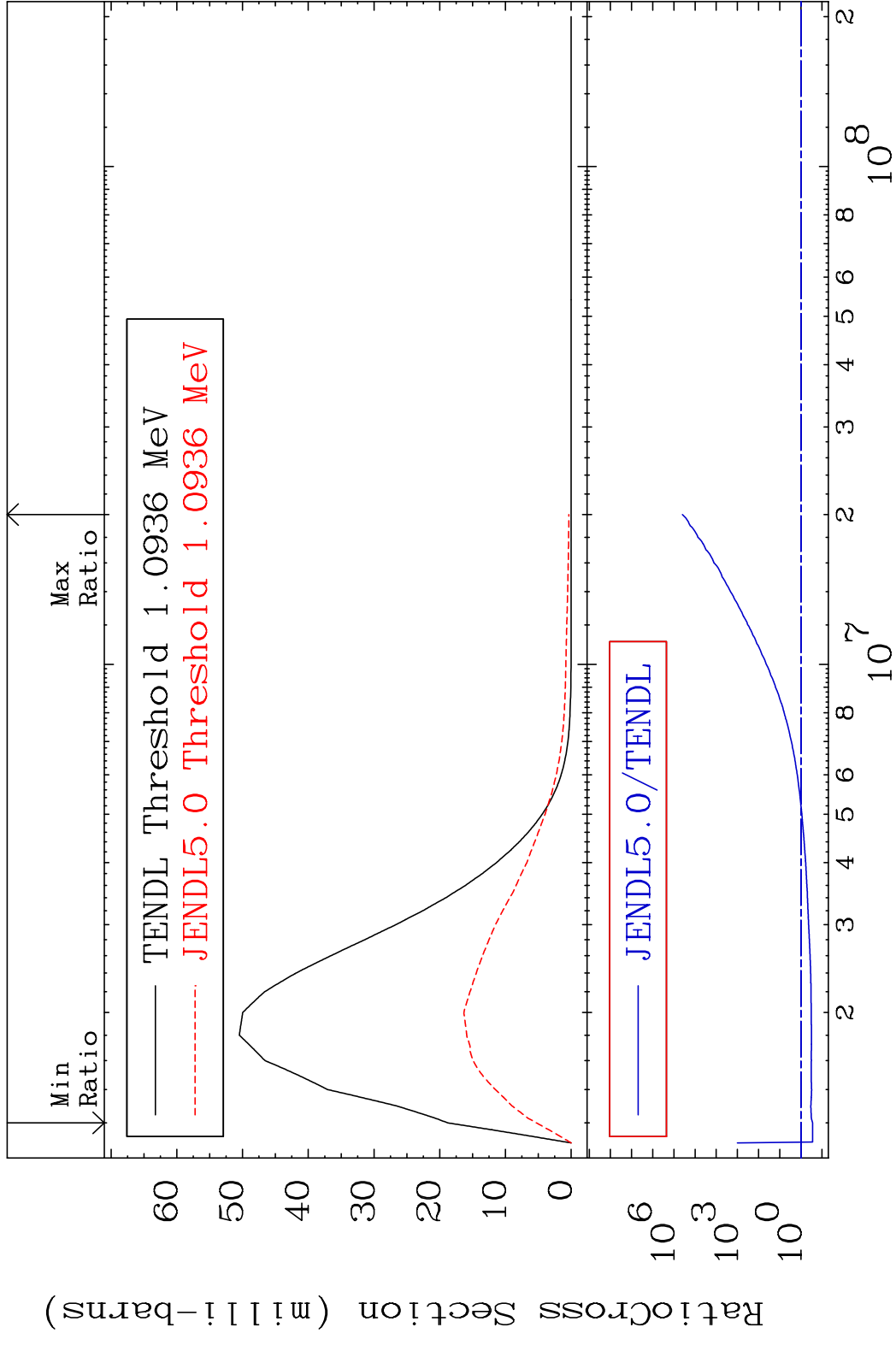
20 Incident Energy (eV) 52-Te-131m

MAT 5259 MT= 62 (n, n') Level 52-Te-131m  
 Cross Section -18.22 To 9999. %

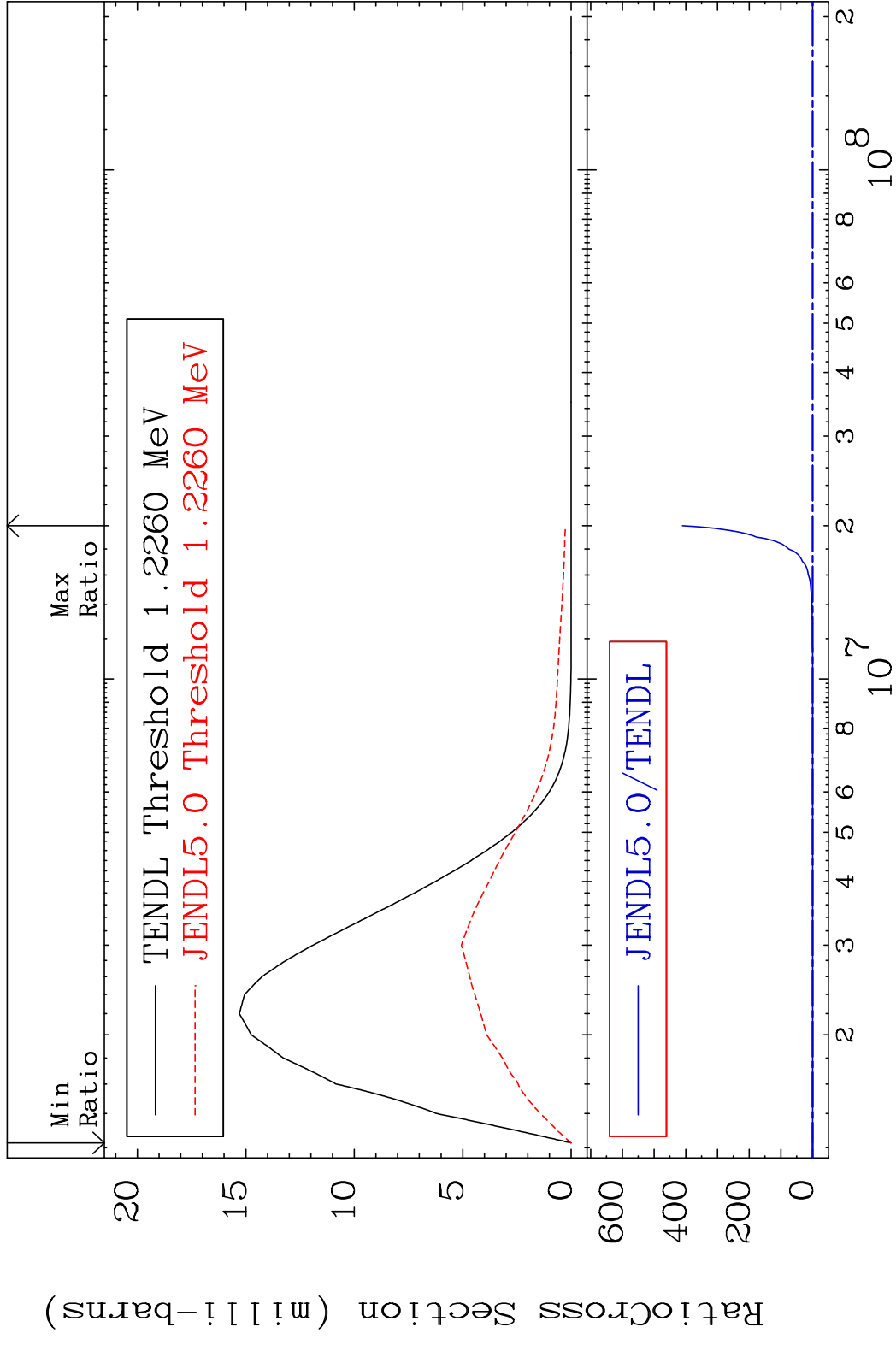


21 Incident Energy (eV) 52-Te-131m

MAT 5259 MT= 63 (n, n') Level 52-Te-131m  
 Cross Section -71.92 To 9999. %

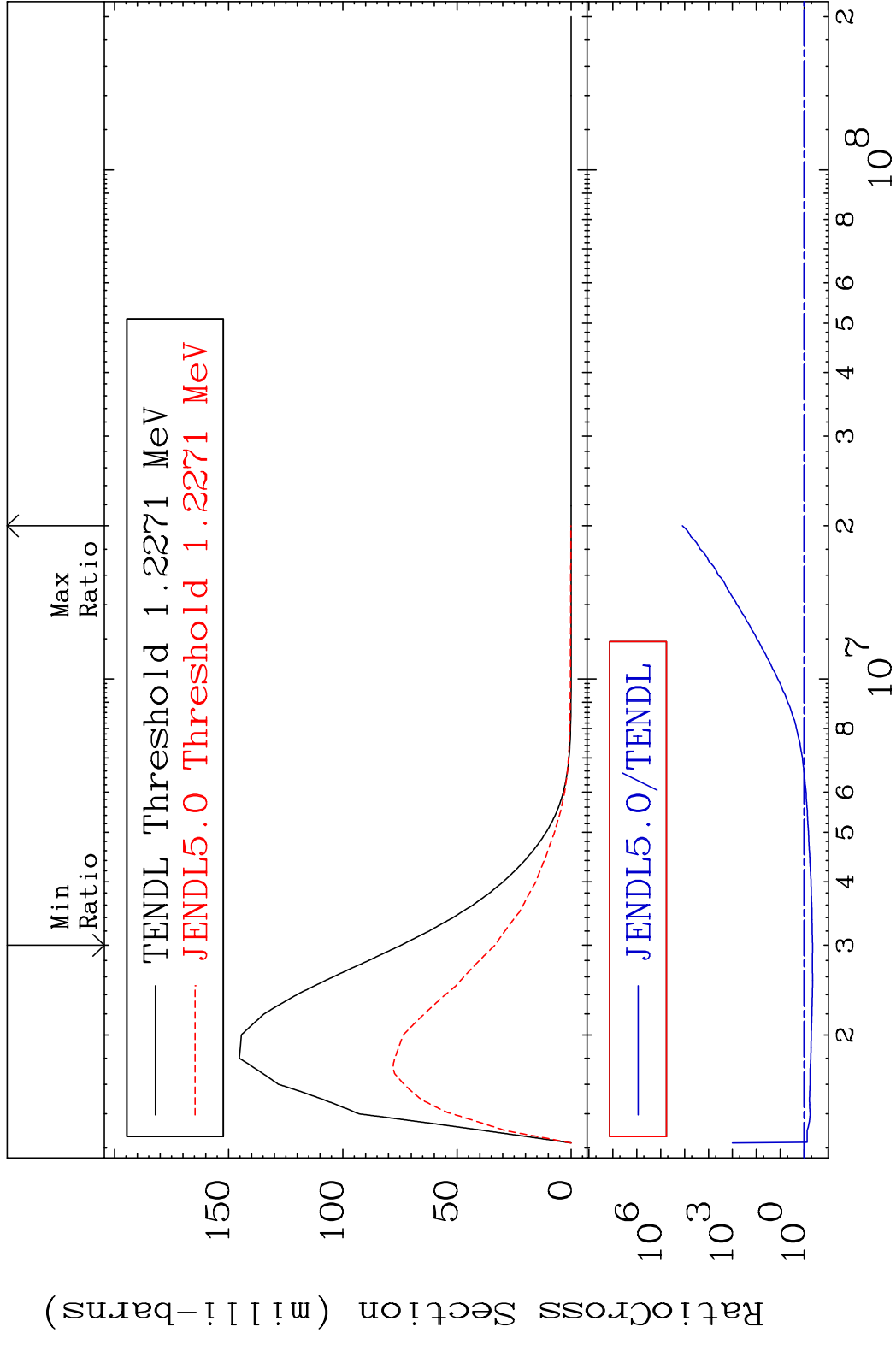


MAT 5259 MT= 64 (n, n') Level 52-Te-131m  
 Cross Section -100.0 To 9999. %

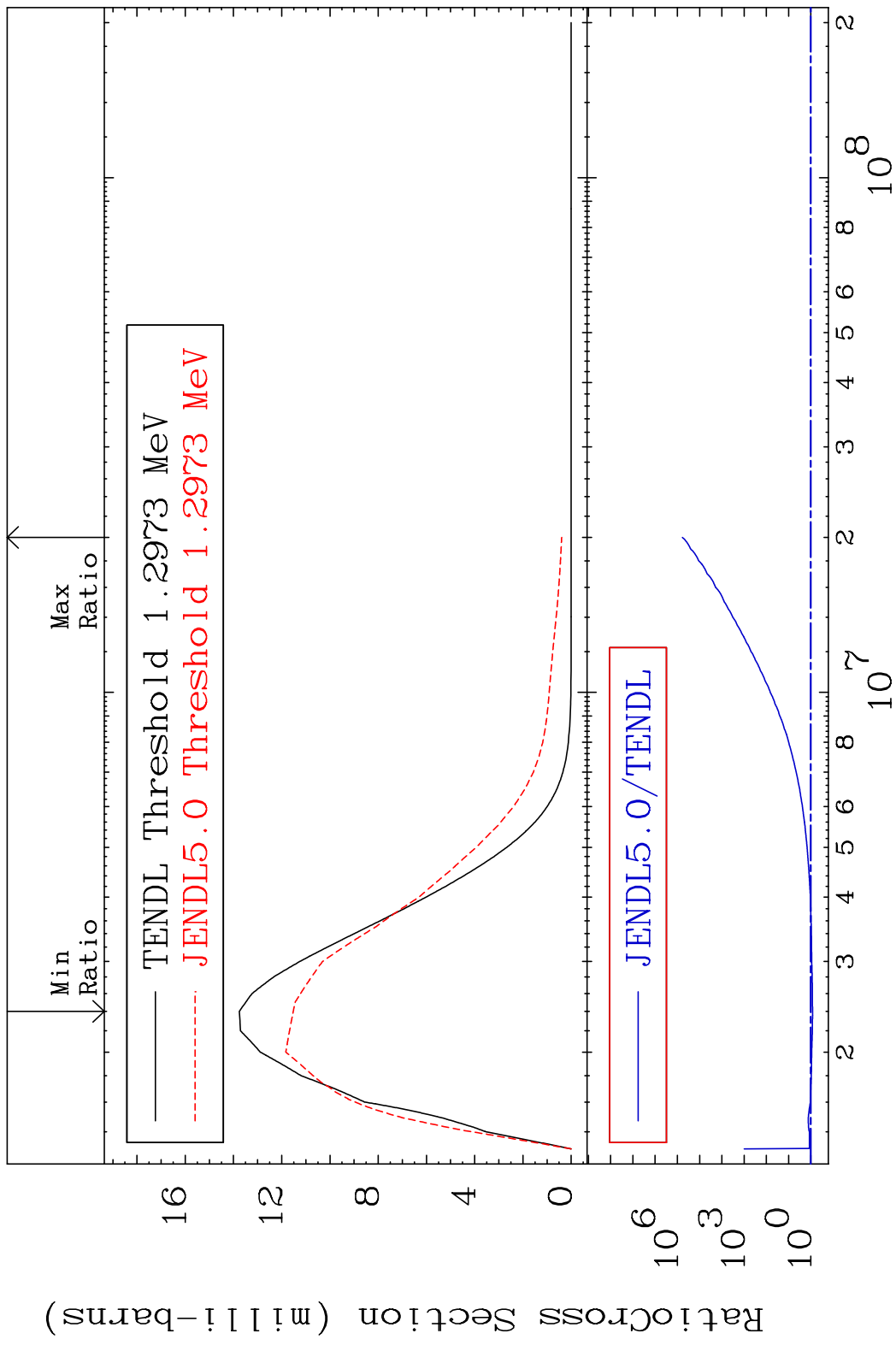




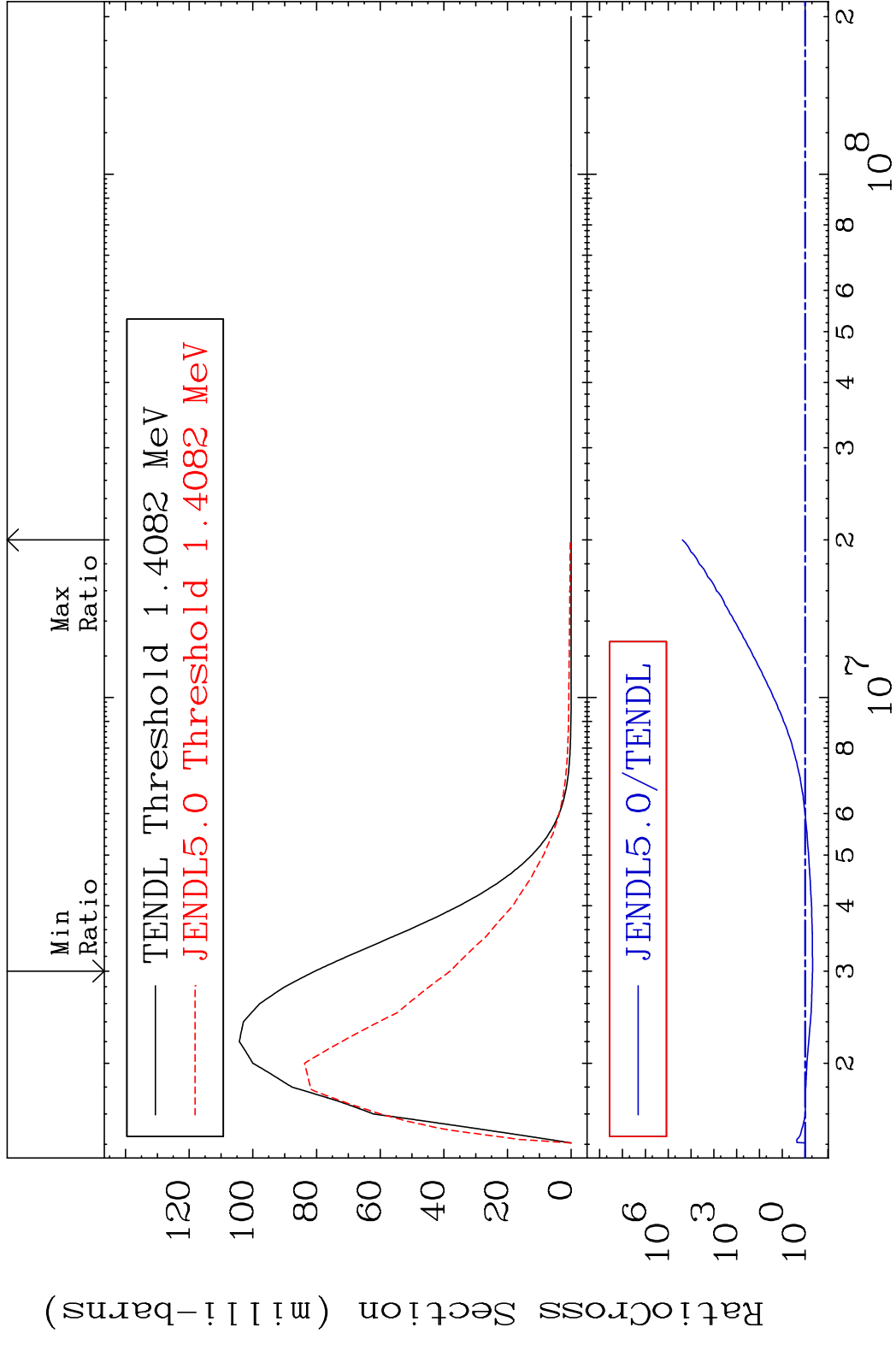
MAT 5259 MT= 65 (n, n') Level 52-Te-131m  
 Cross Section -55.14 To 9999. %



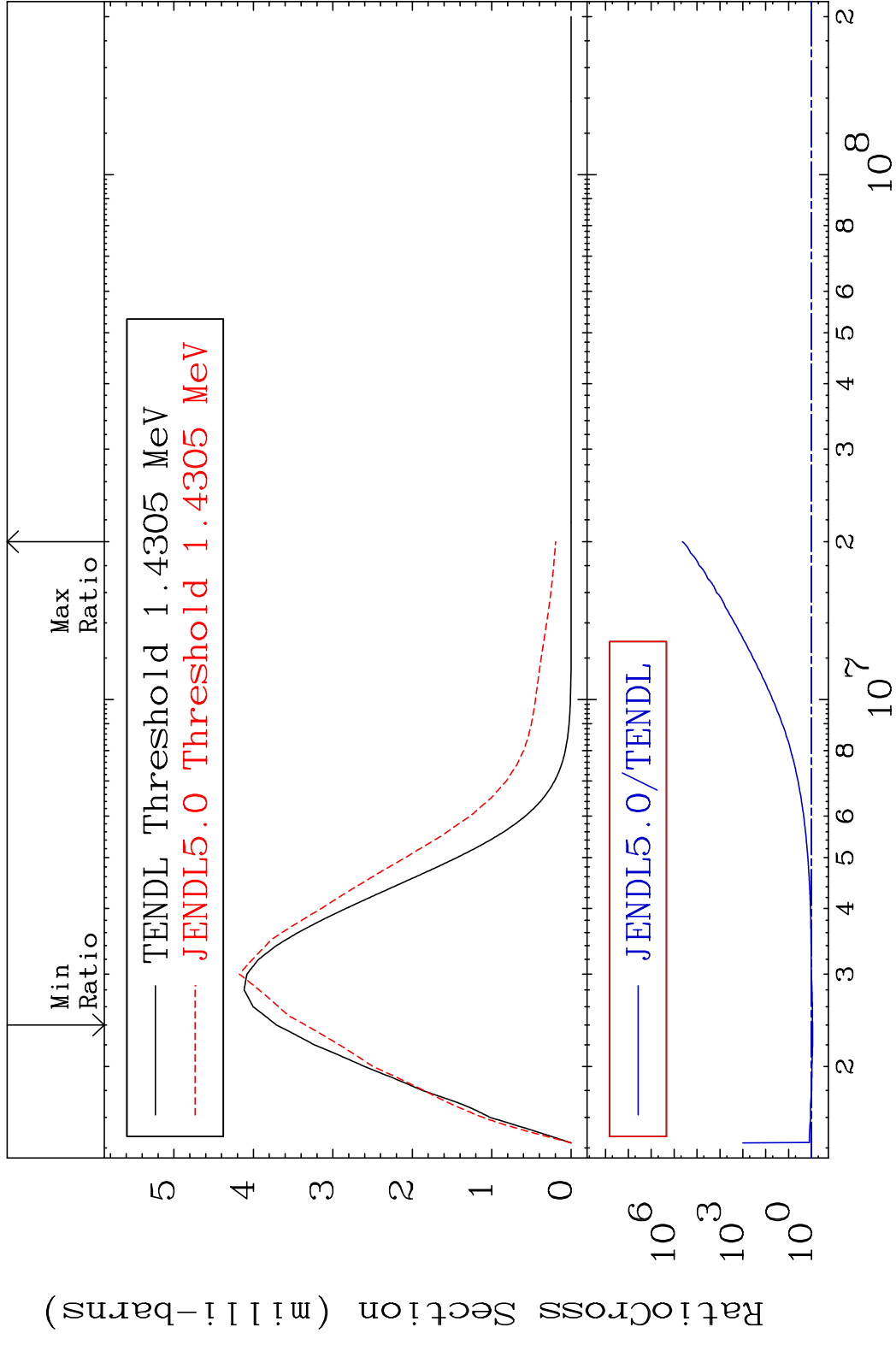
MAT 5259      MT= 66 (n,n') Level      52-Te-131m  
 Cross Section      -16.25 To 9999. %



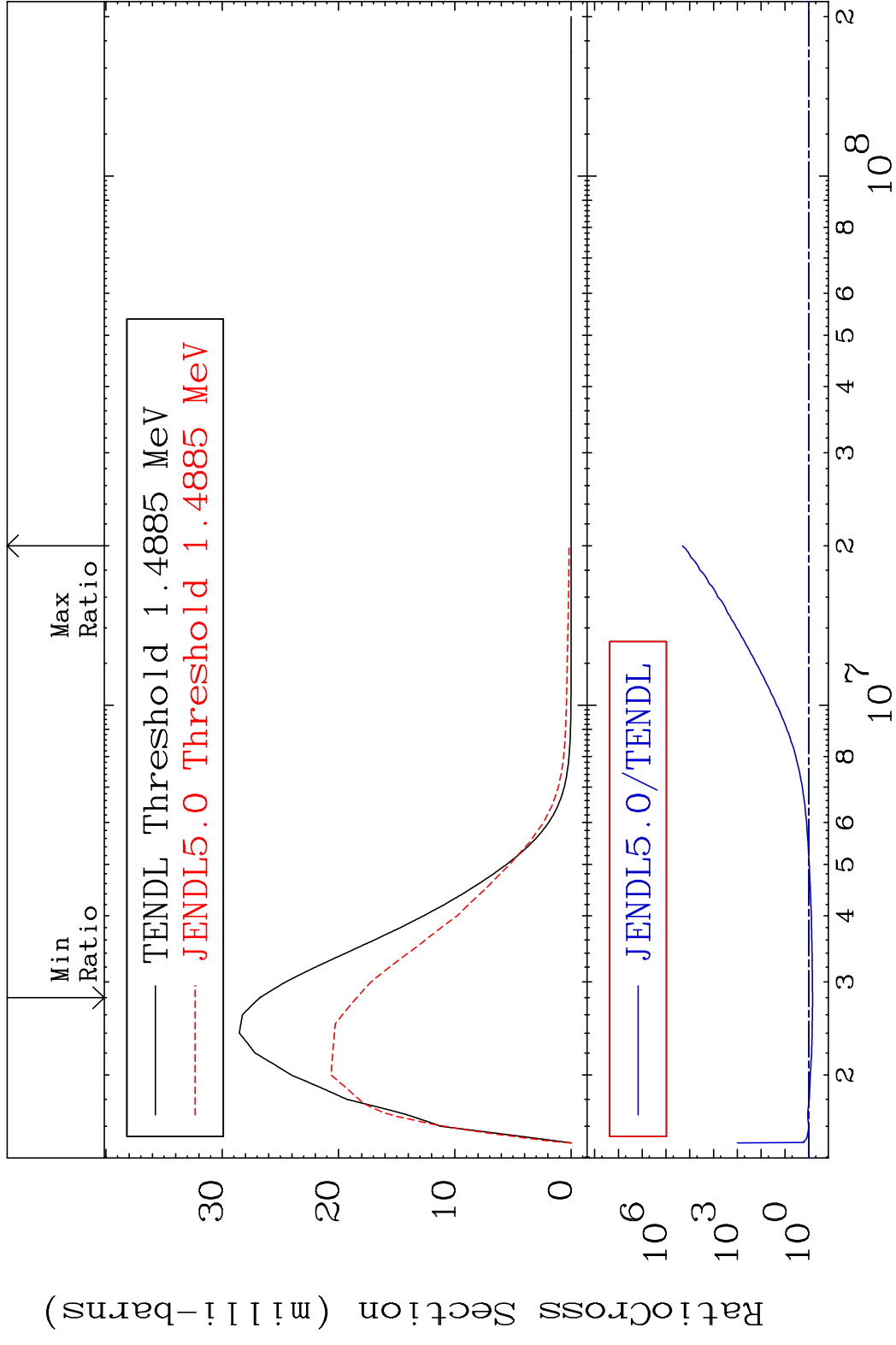
MAT 5259 MT= 67 (n, n') Level 52-Te-131m  
 Cross Section -52.79 To 9999. %



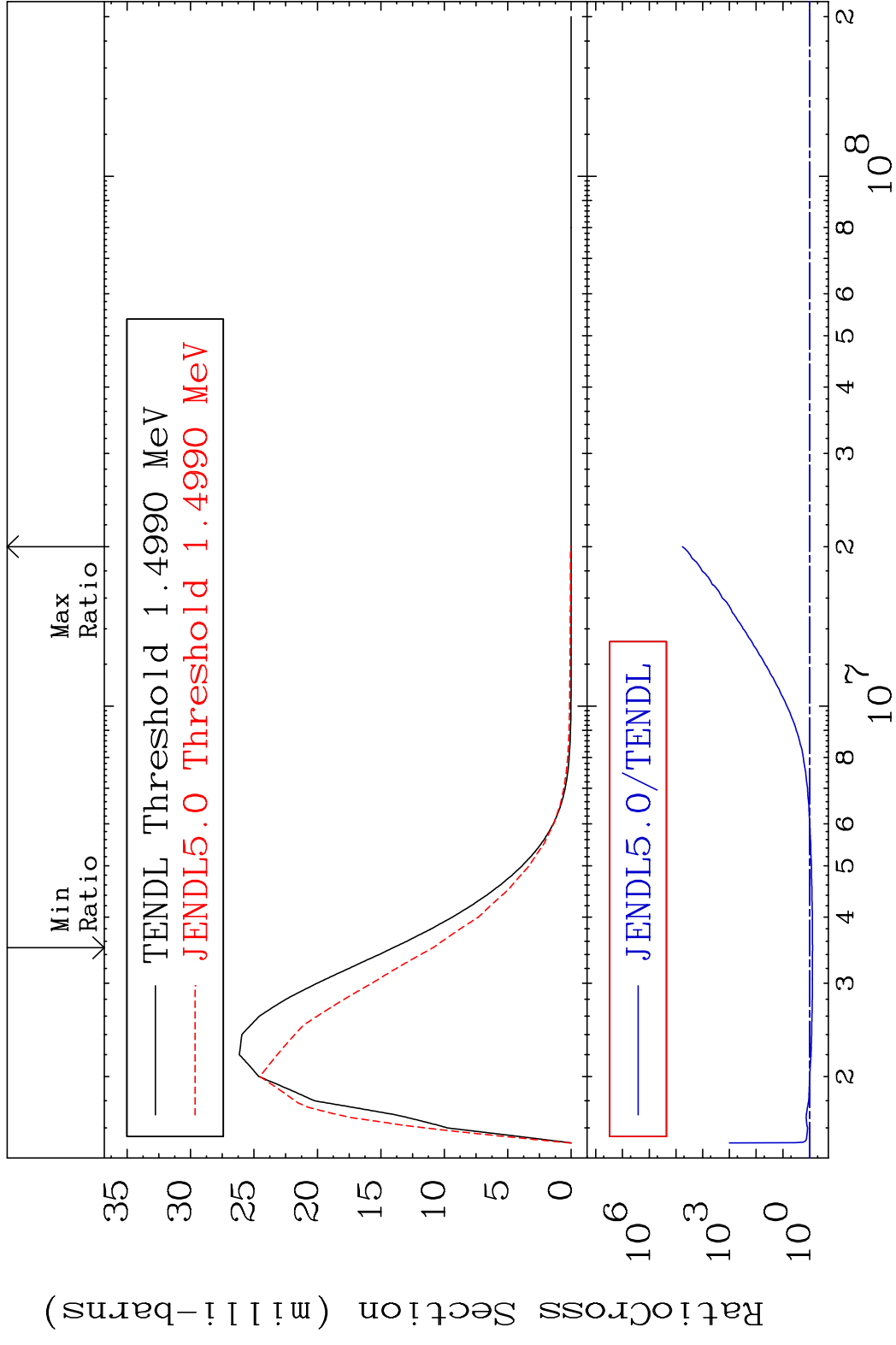
MAT 5259 MT= 68 (n, n') Level 52-Te-131m  
 Cross Section -9.833 To 9999. %



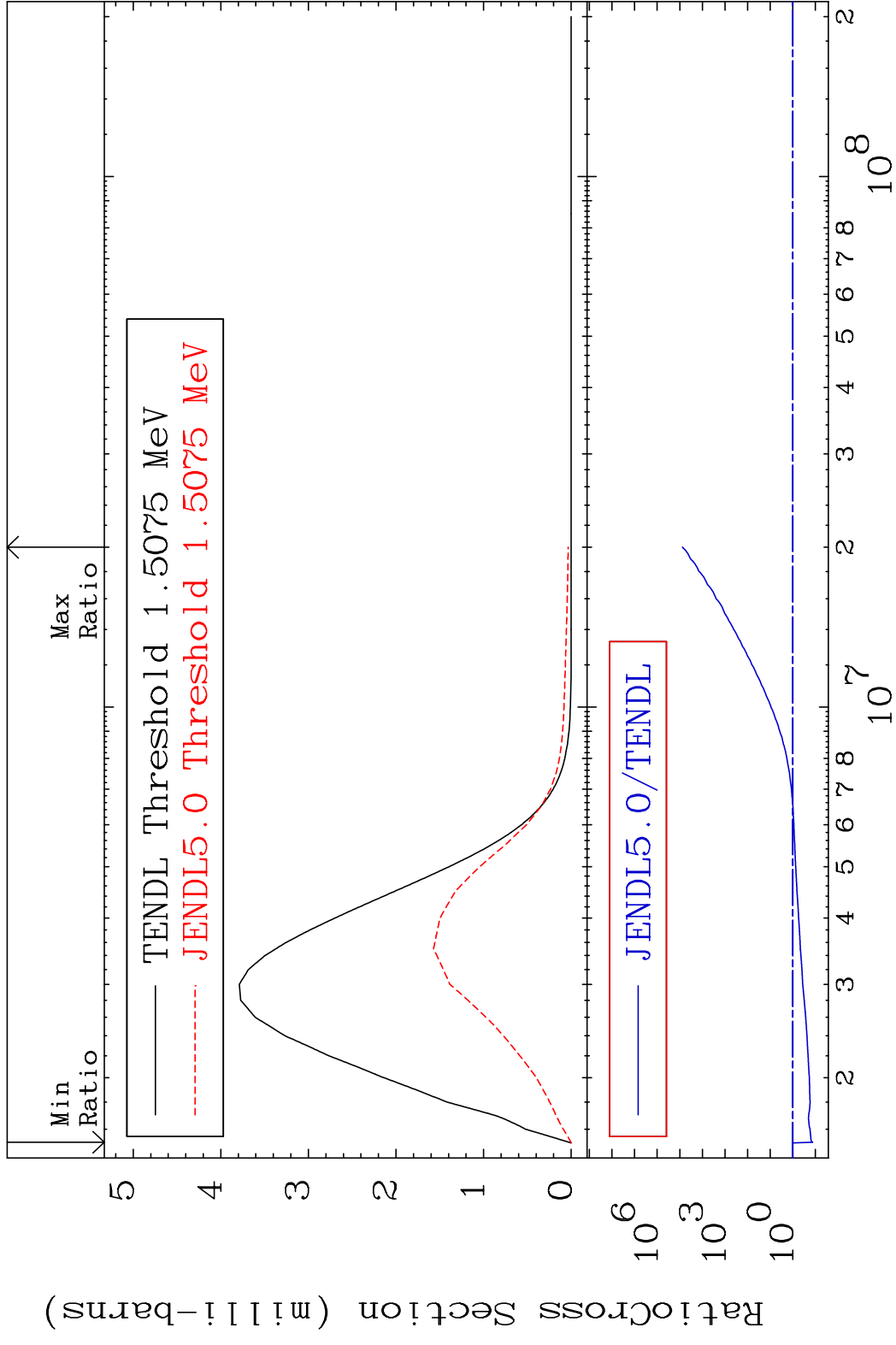
MAT 5259 MT= 69 (n, n') Level 52-Te-131m  
 Cross Section -31.16 To 9999. %



MAT 5259 MT= 70 (n, n') Level 52-Te-131m  
 Cross Section -22.43 To 9999. %

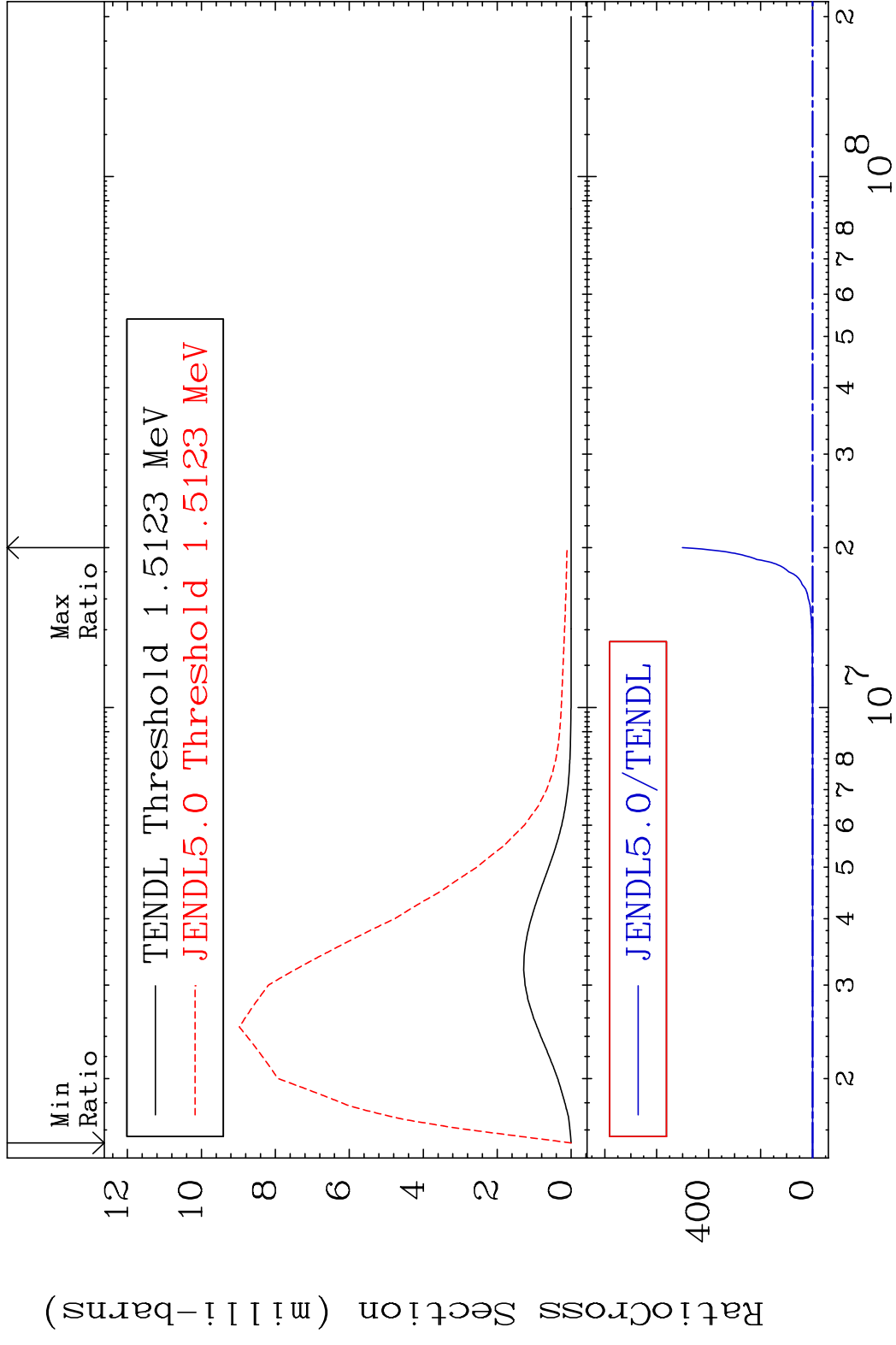


MAT 5259 MT= 71 (n,n') Level 52-Te-131m  
 Cross Section -86.58 To 9999. %



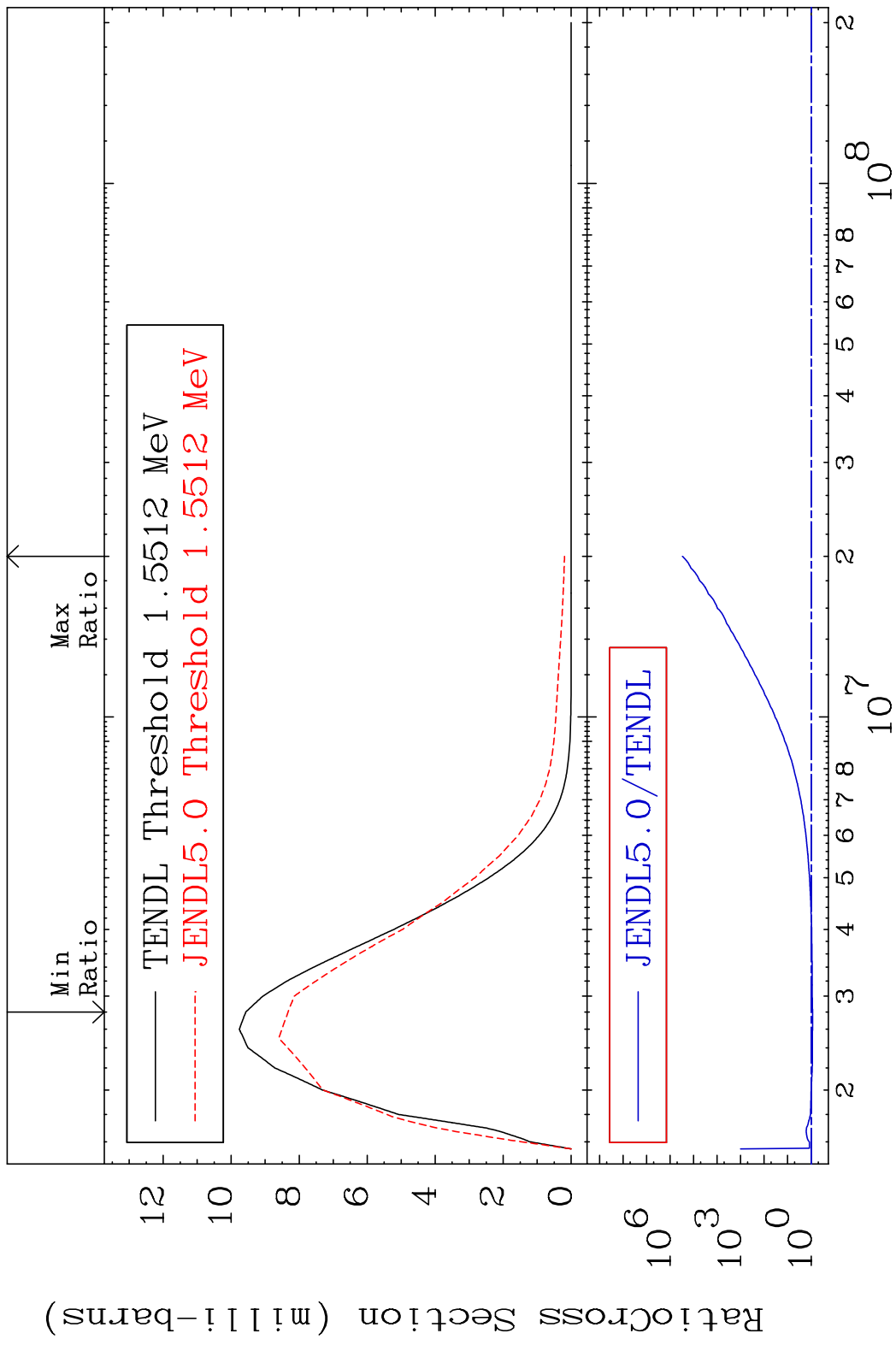
30 Incident Energy (eV) 52-Te-131m

MAT 5259      MT= 72 (n, n') Level      52-Te-131m  
 Cross Section    -100.0 To 9999. %

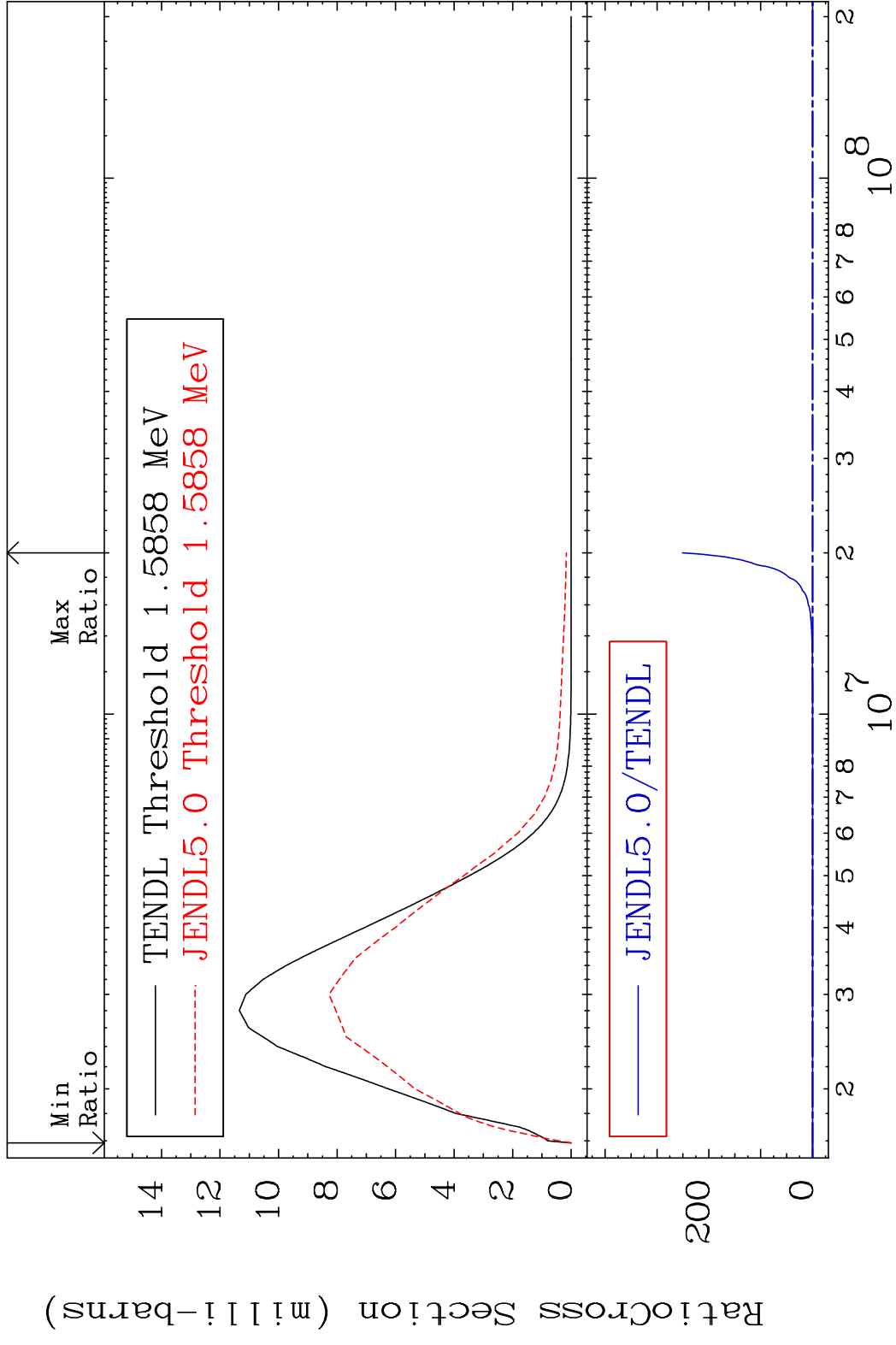




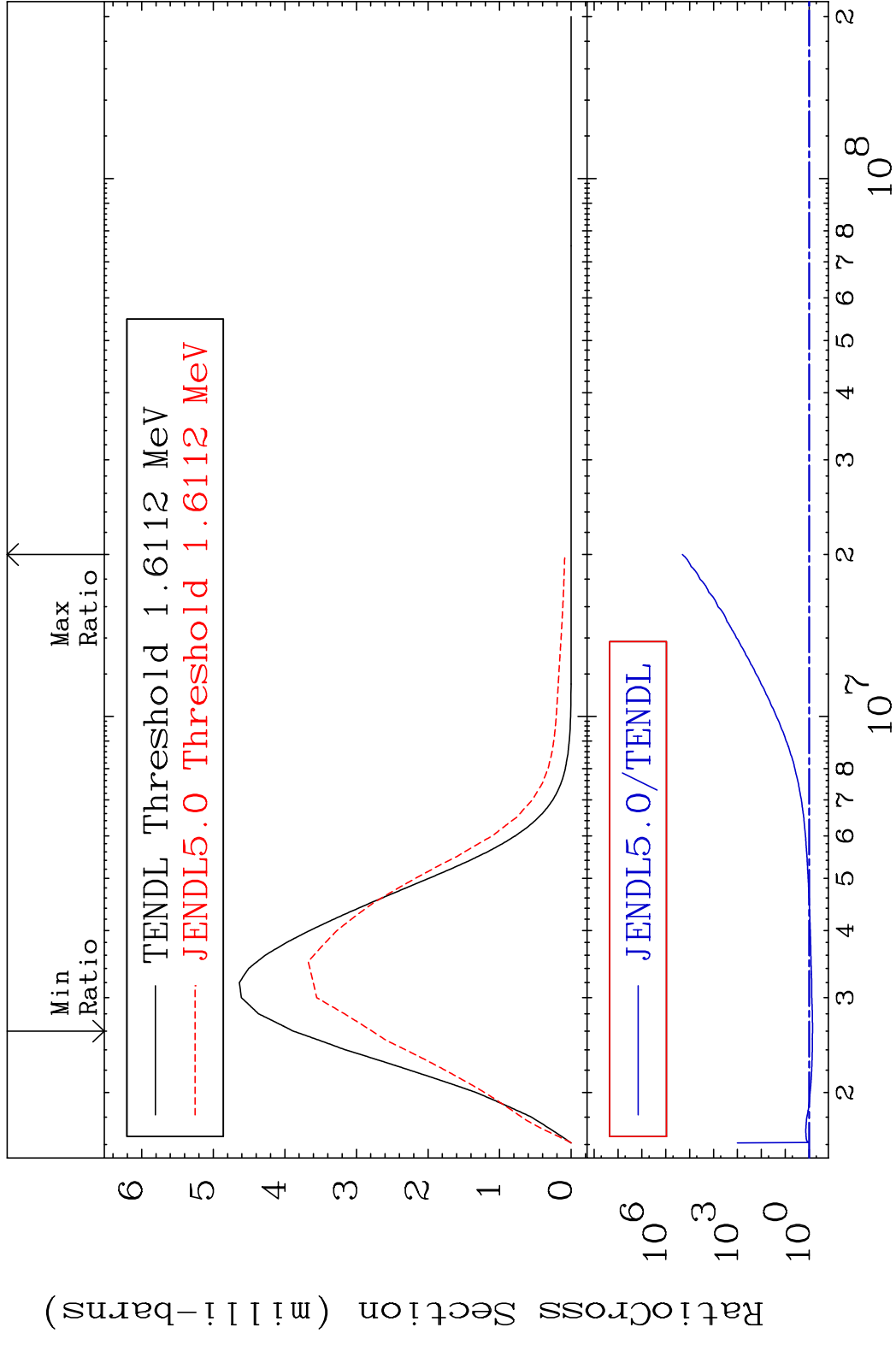
MAT 5259 MT= 73 (n, n') Level 52-Te-131m  
 Cross Section -13.00 To 9999. %



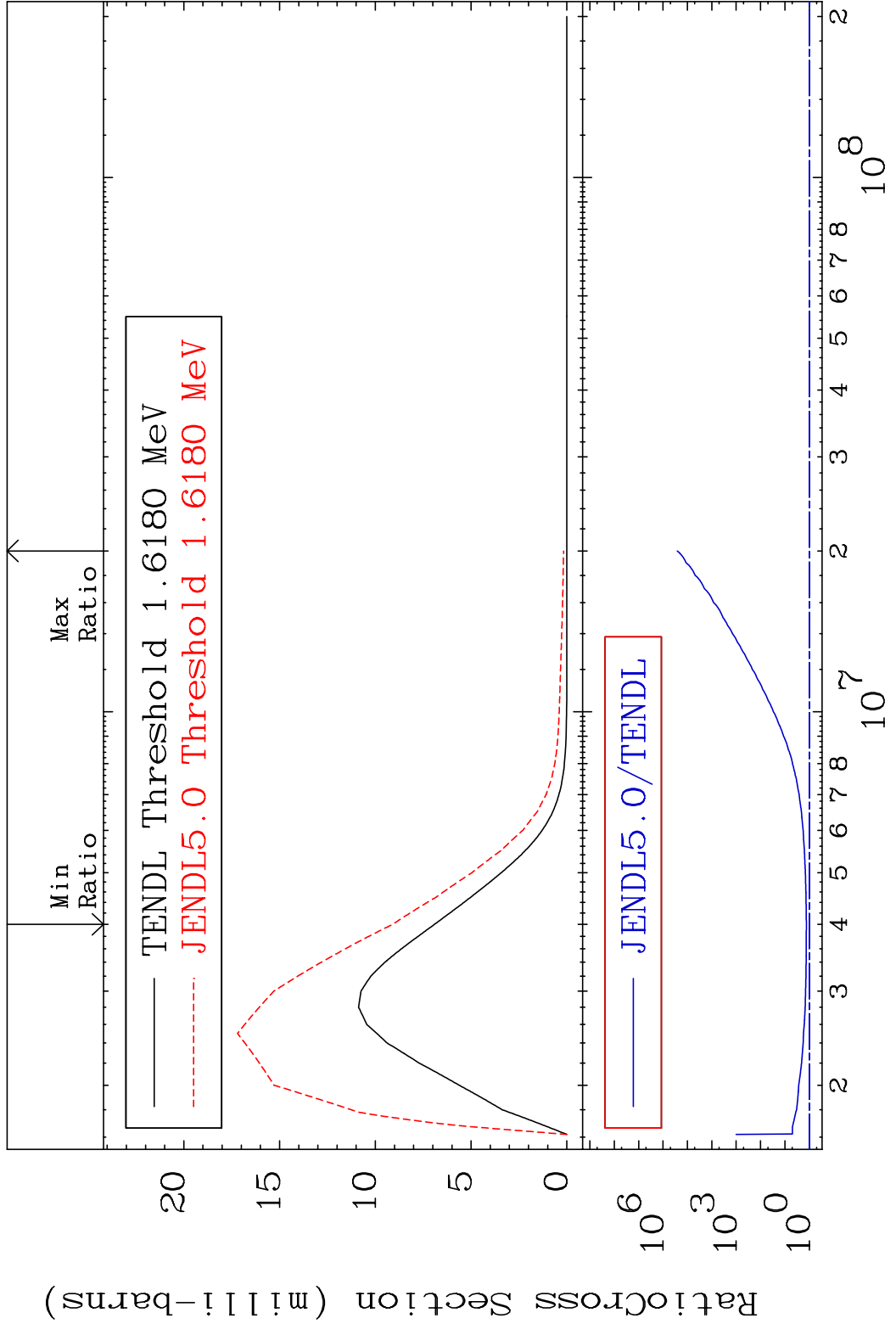
MAT 5259 MT= 74 (n, n') Level 52-Te-131m  
 Cross Section -100.0 To 9999. %



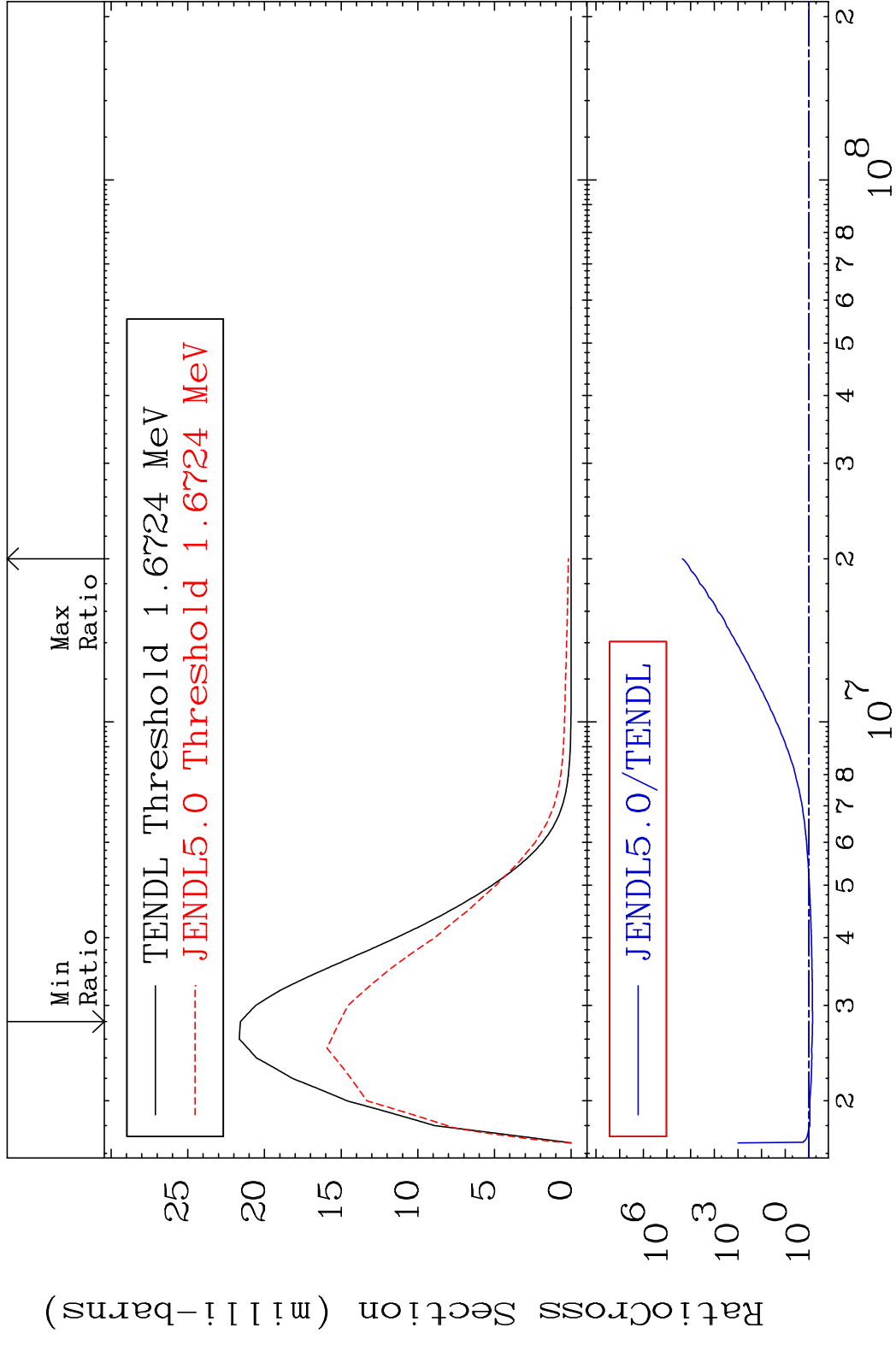
MAT 5259 MT= 75 (n,n') Level 52-Te-131m  
 Cross Section -28.37 To 9999. %



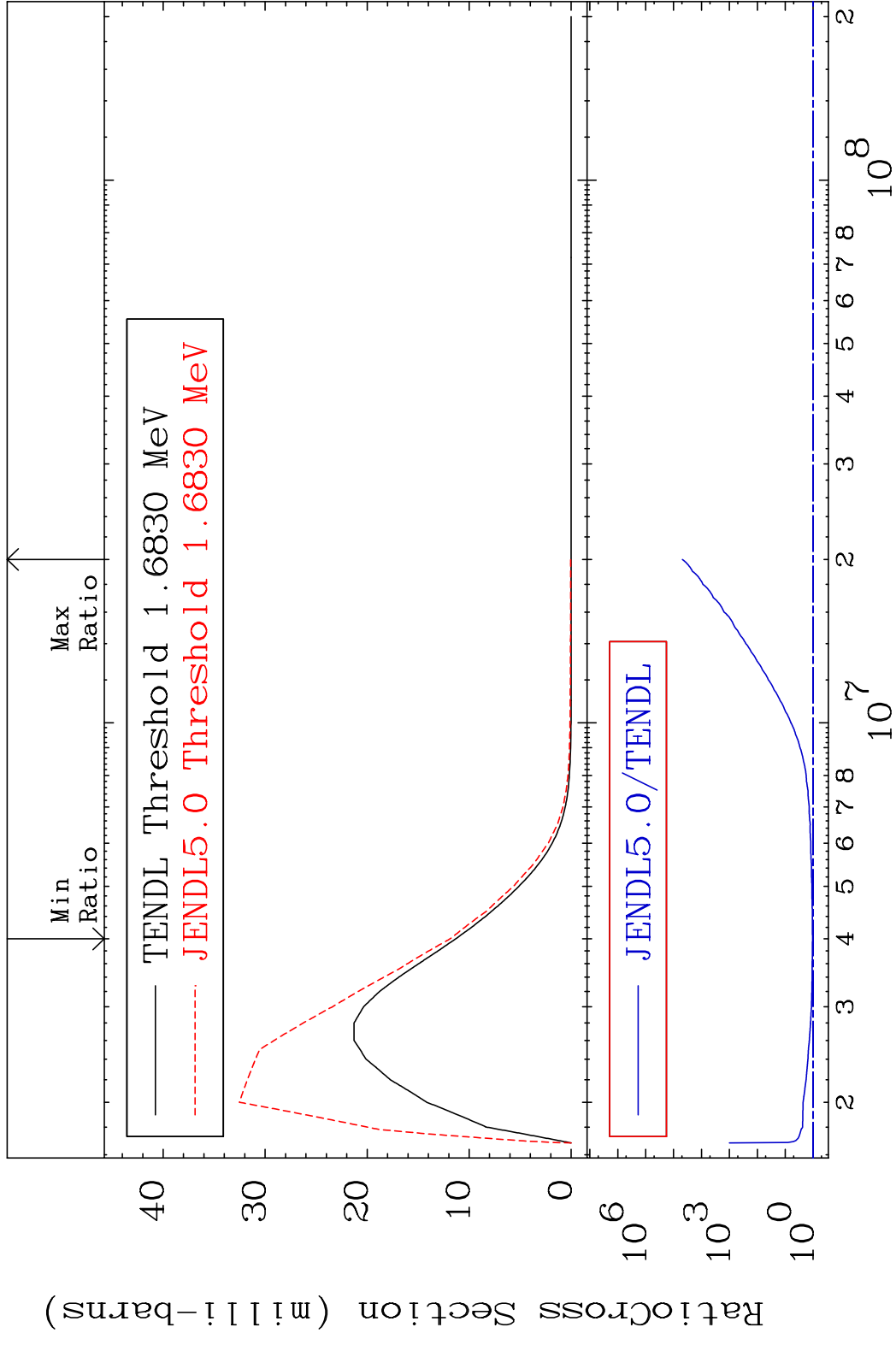
MAT 5259      MT= 76 (n,n') Level      52-Te-131m  
 Cross Section    31.70    To 9999. %



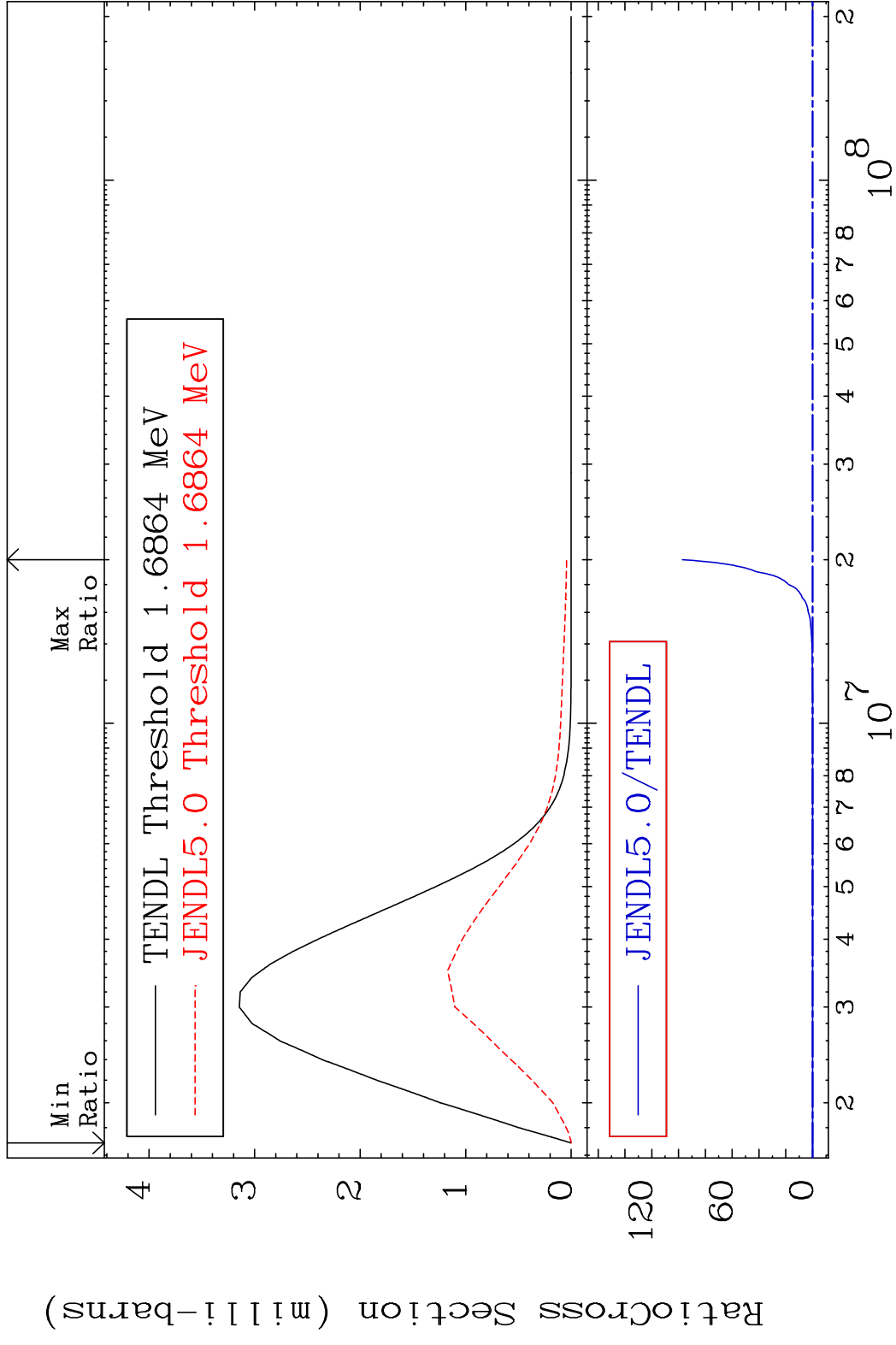
MAT 5259 MT= 77 (n, n') Level 52-Te-131m  
 Cross Section -30.03 To 9999. %



MAT 5259      MT= 78 (n, n')      Level      52-Te-131m  
 Cross Section      4.845      To 9999. %

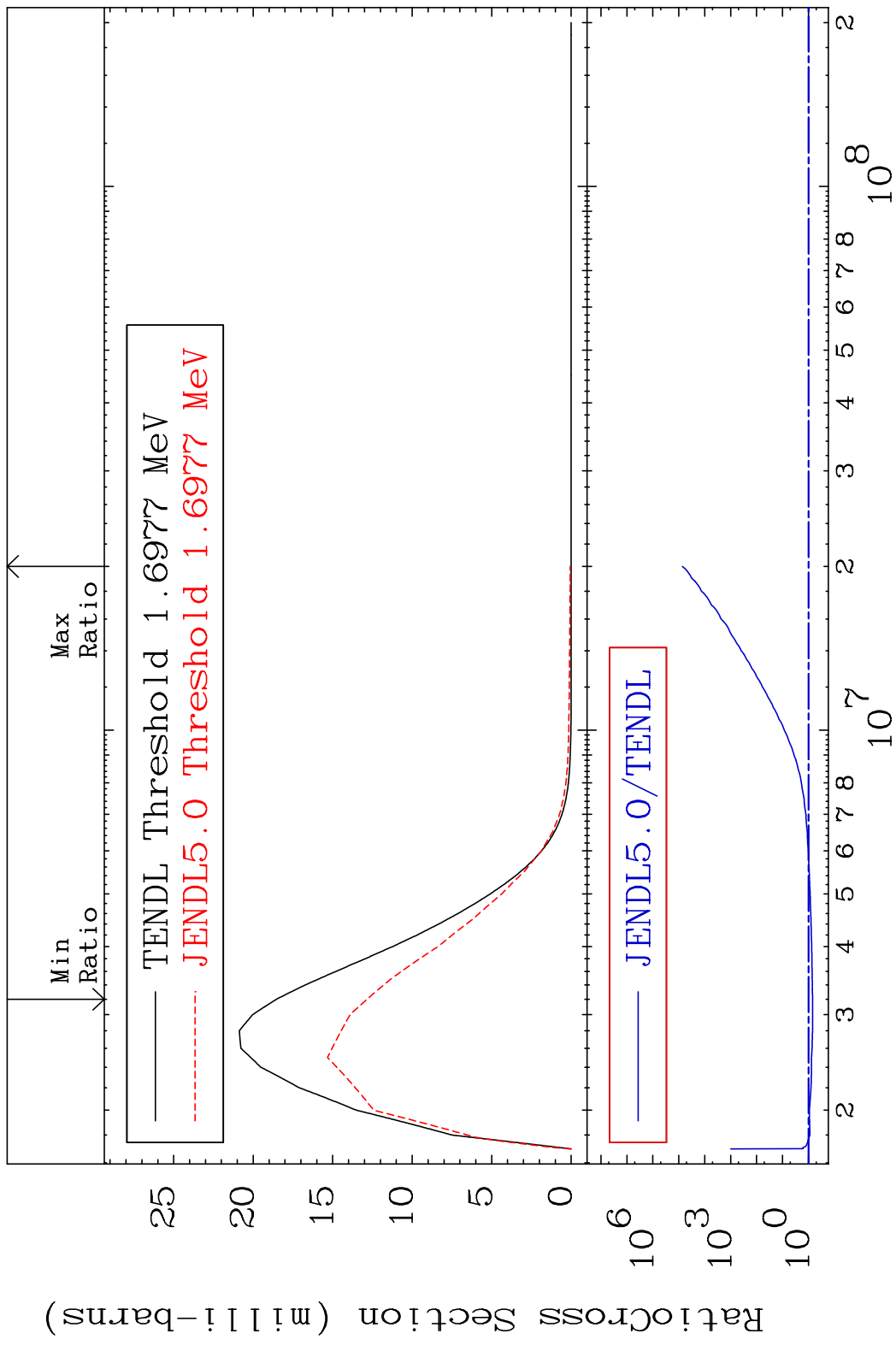


MAT 5259 MT= 79 (n,n') Level 52-Te-131m  
 Cross Section -100.0 To 9999. %



38 Incident Energy (eV) 52-Te-131m

MAT 5259 MT= 80 (n,n') Level 52-Te-131m  
 Cross Section -30.74 To 9999. %





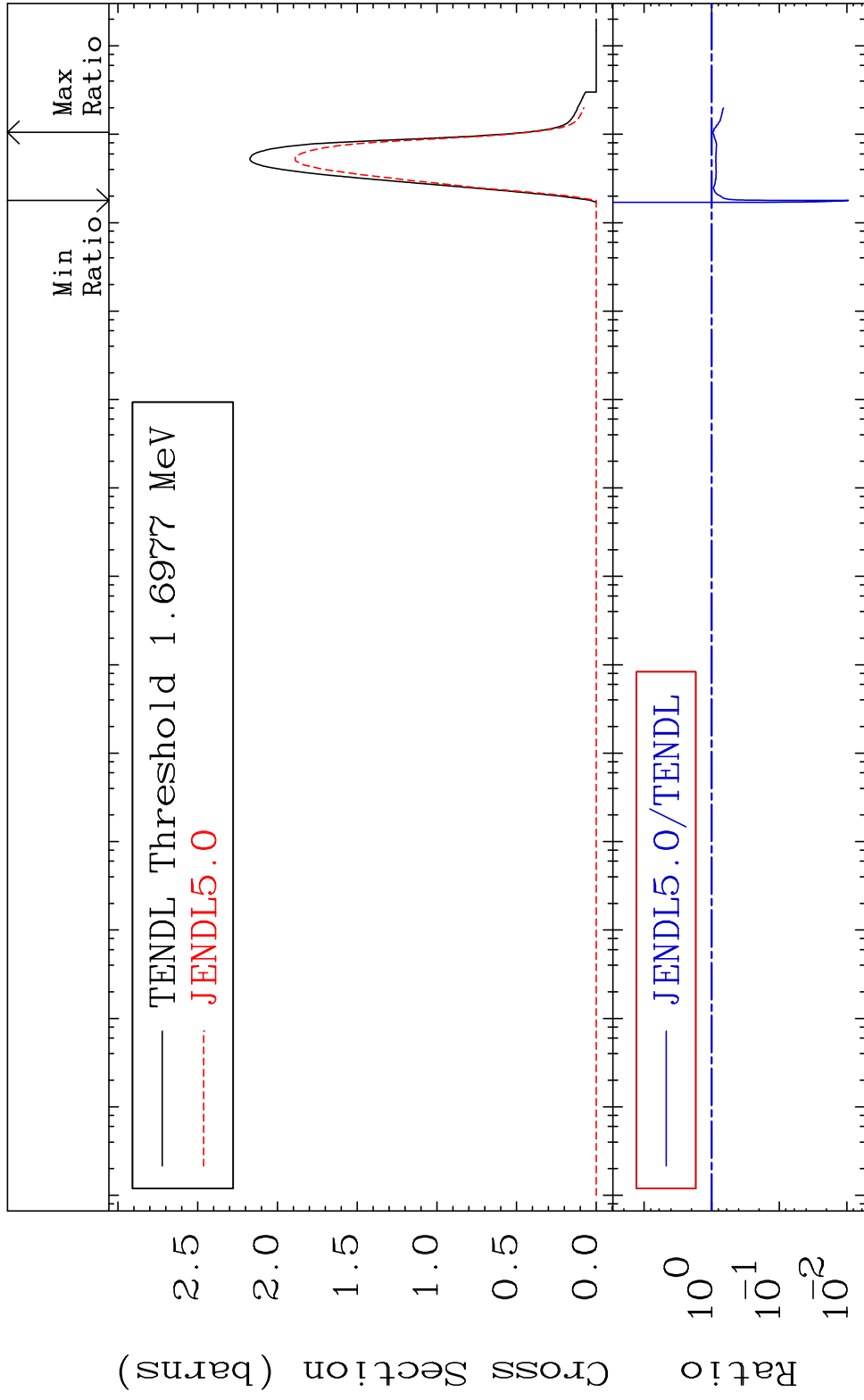
MAT 5259

(n, n') Continuum

52-Te-131m

Cross Section

-99.05 To -2.146%



40

Incident Energy (eV)

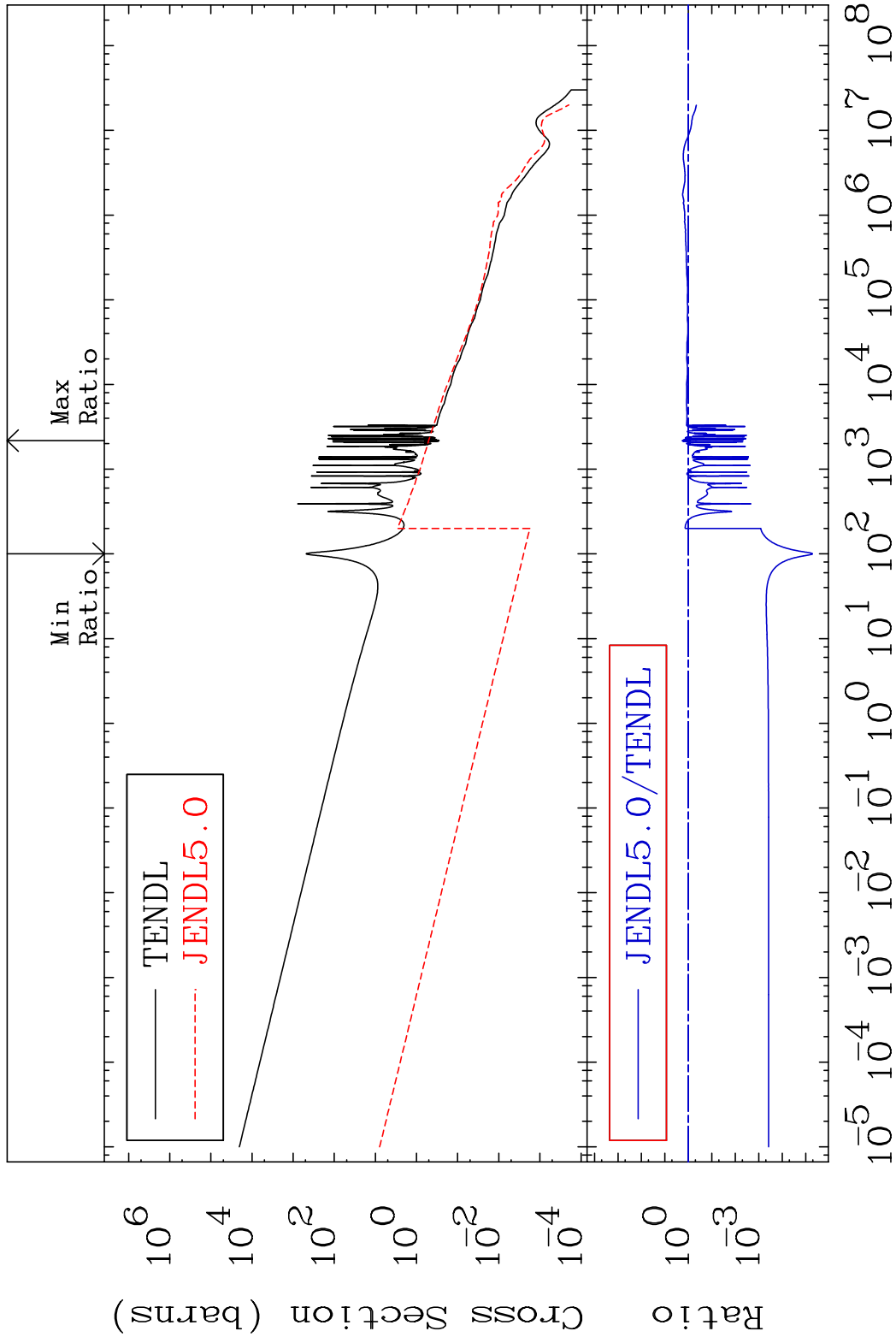
52-Te-131m

MAT 5259

(n,  $\gamma$ )

52-Te-131m

Cross Section -100.0 To 81.01 %



41

Incident Energy (eV)

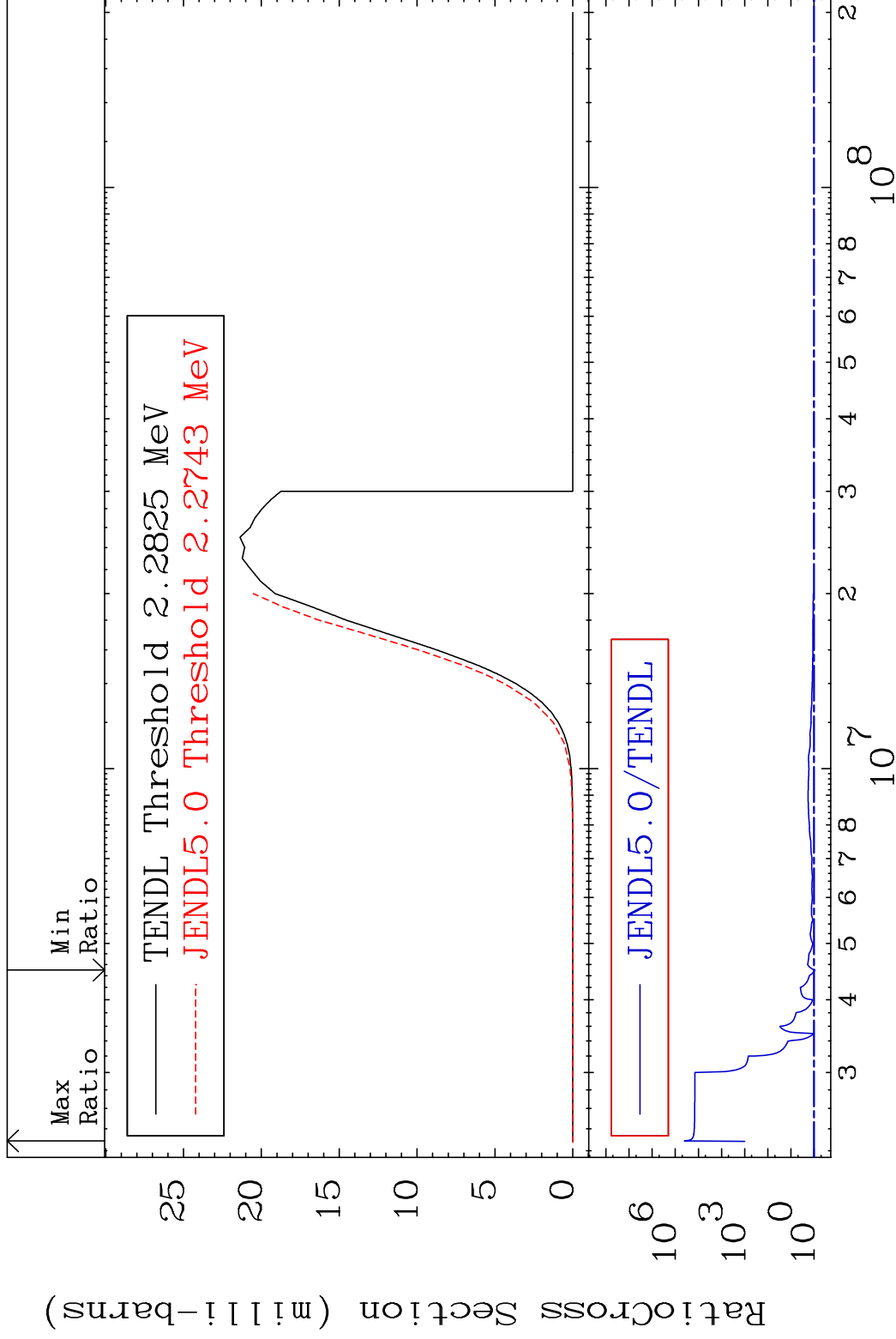
52-Te-131m

MAT 5259

(n,p)

52-Te-131m

Cross Section -7.366 To 9999. %



42

Incident Energy (eV)

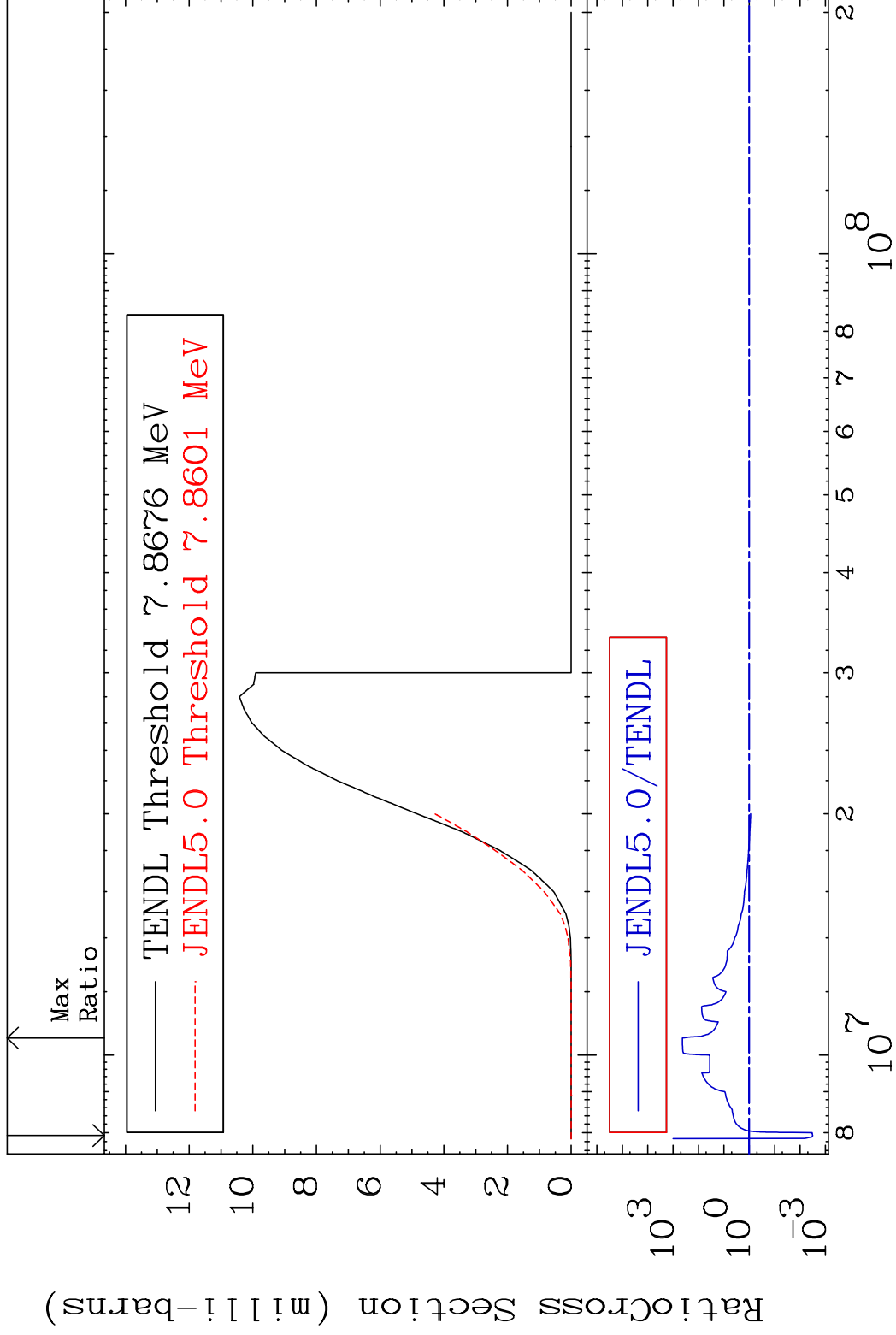
52-Te-131m

MAT 5259

(n,d)

52-Te-131m

Cross Section -99.68 To 9999. %

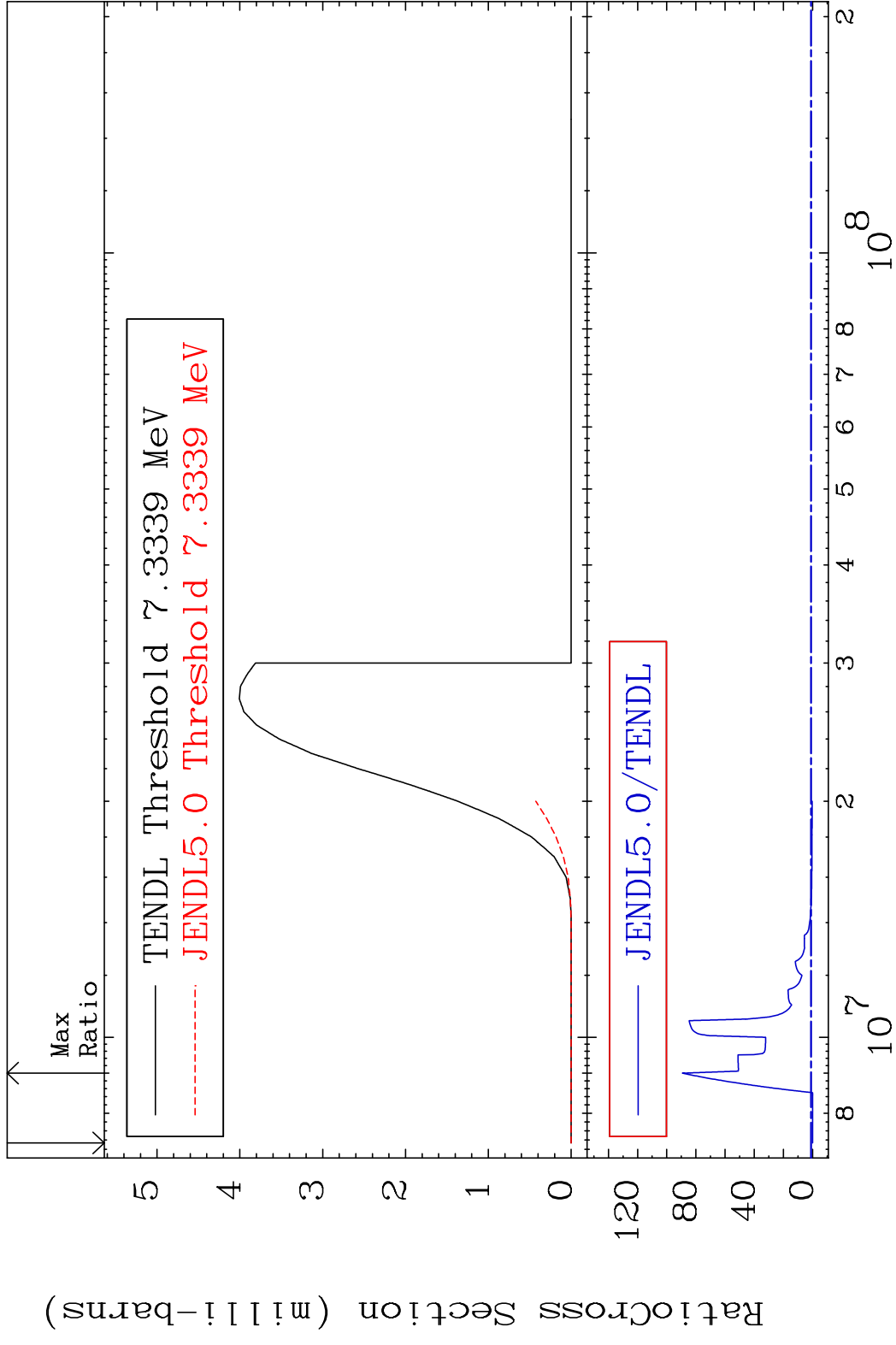


43

Incident Energy (eV)

52-Te-131m

MAT 5259 (n, t) 52-Te-131m  
 Cross Section -100.0 To 8830. %

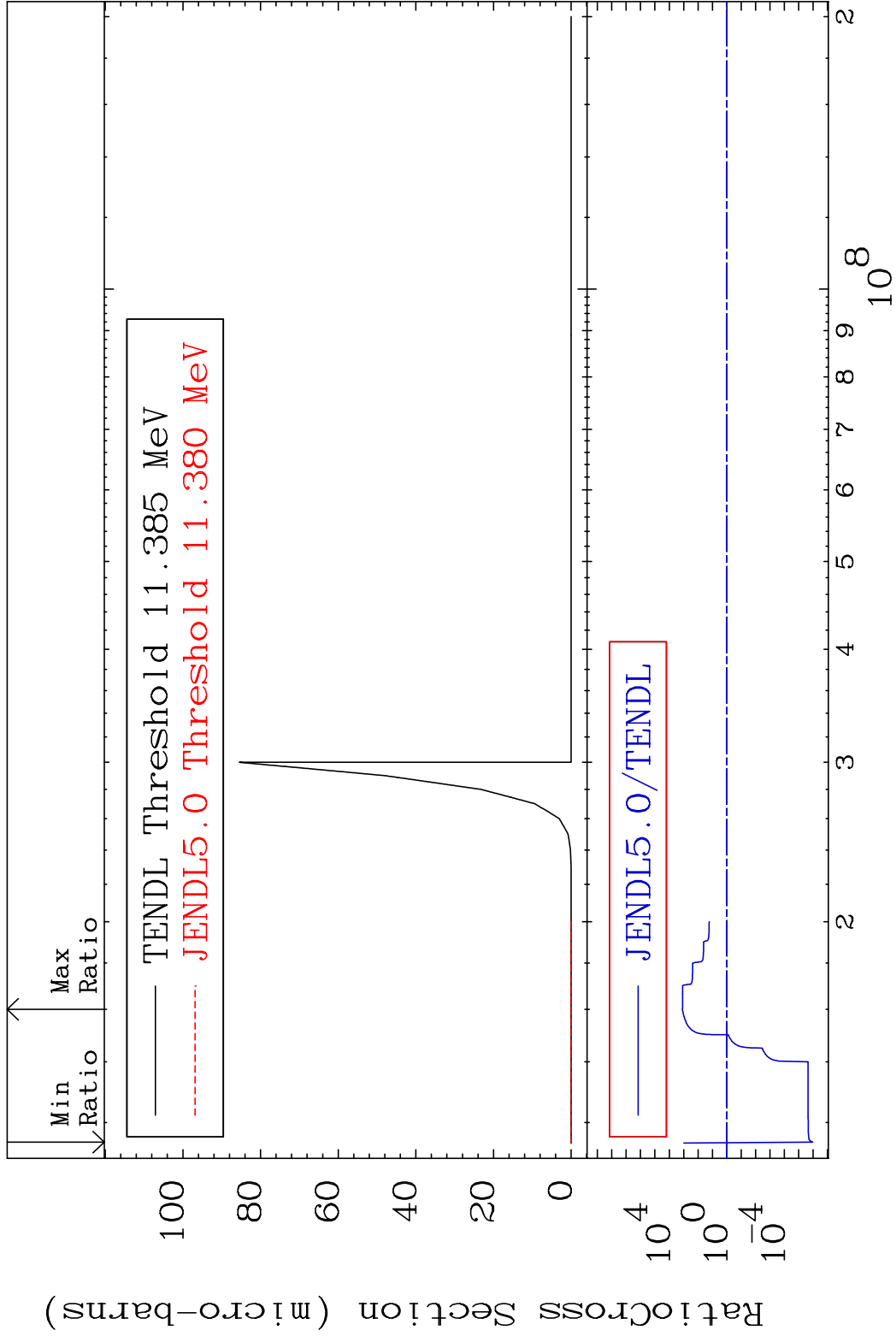


MAT 5259

(n, He-3)

52-Te-131m

Cross Section -100.0 To 9999. %



45

Incident Energy (eV)

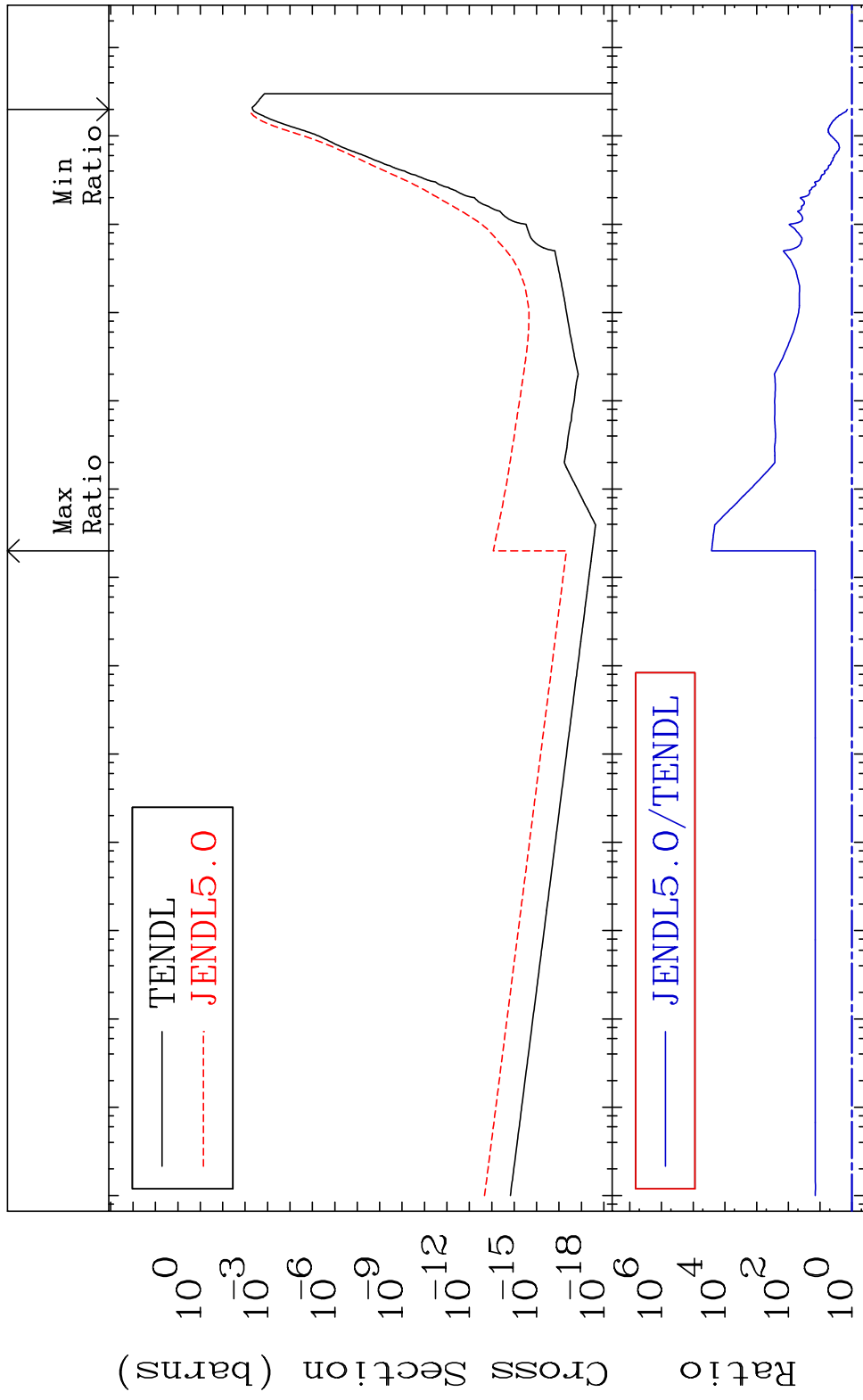
52-Te-131m

MAT 5259

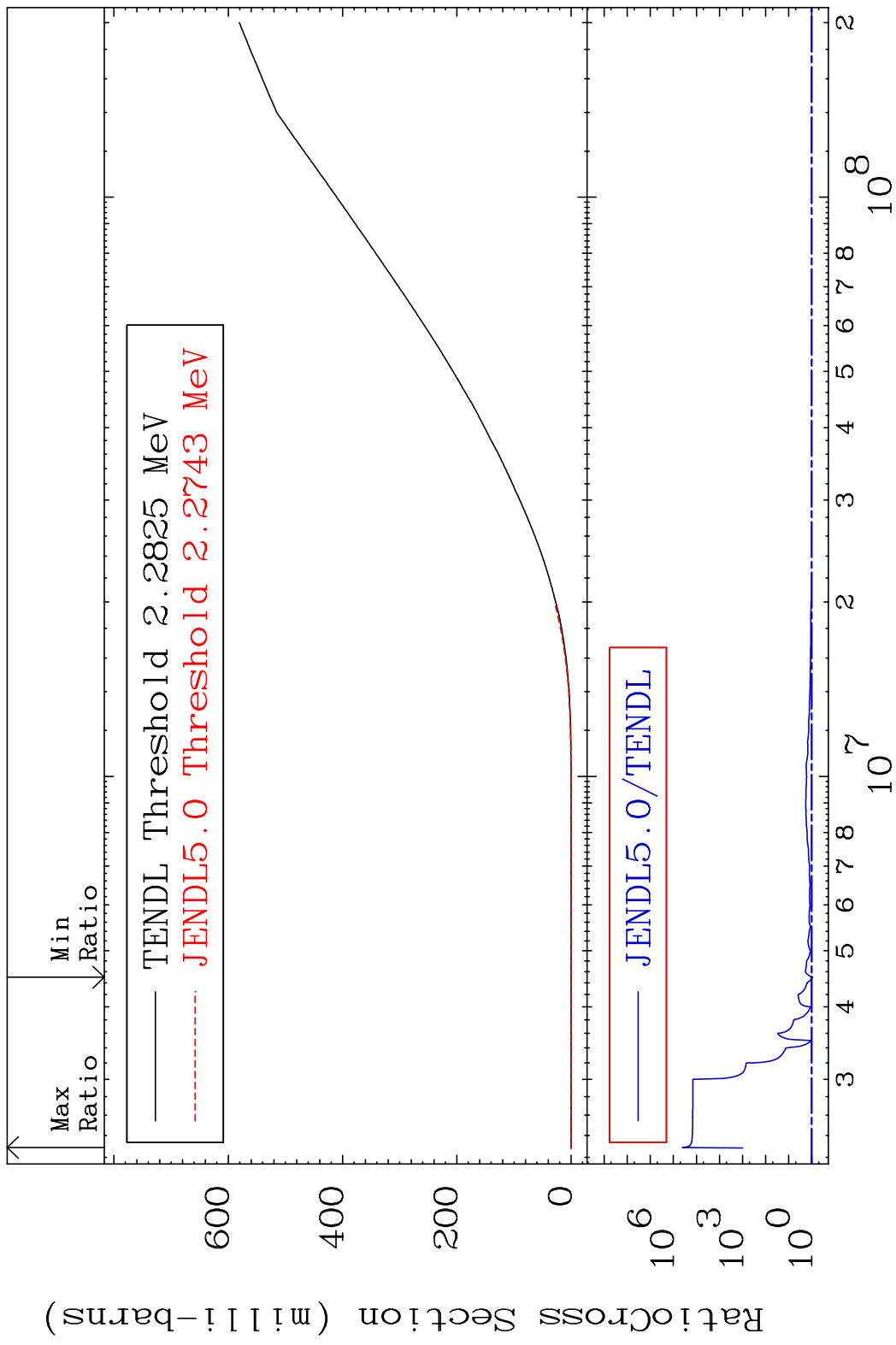
52-Te-131m

(n,  $\alpha$ )

Cross Section 39.00 To 9999. %



MAT 5259 Hydrogen Production 52-Te-131m  
 Cross Section -7.366 To 9999. %



47 Incident Energy (eV) 52-Te-131m

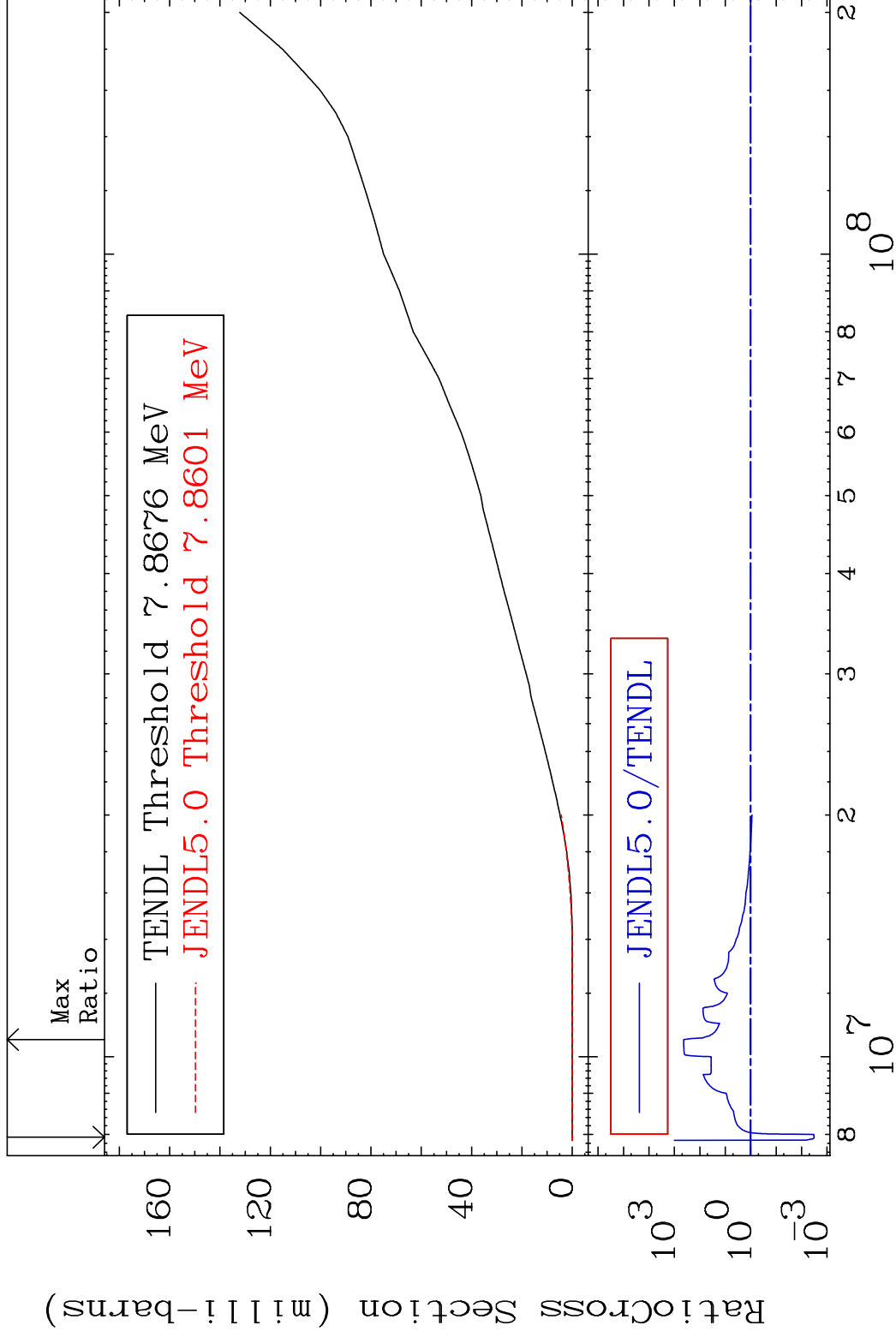


MAT 5259

Deuterium Production

52-Te-131m

Cross Section -99.68 To 9999. %

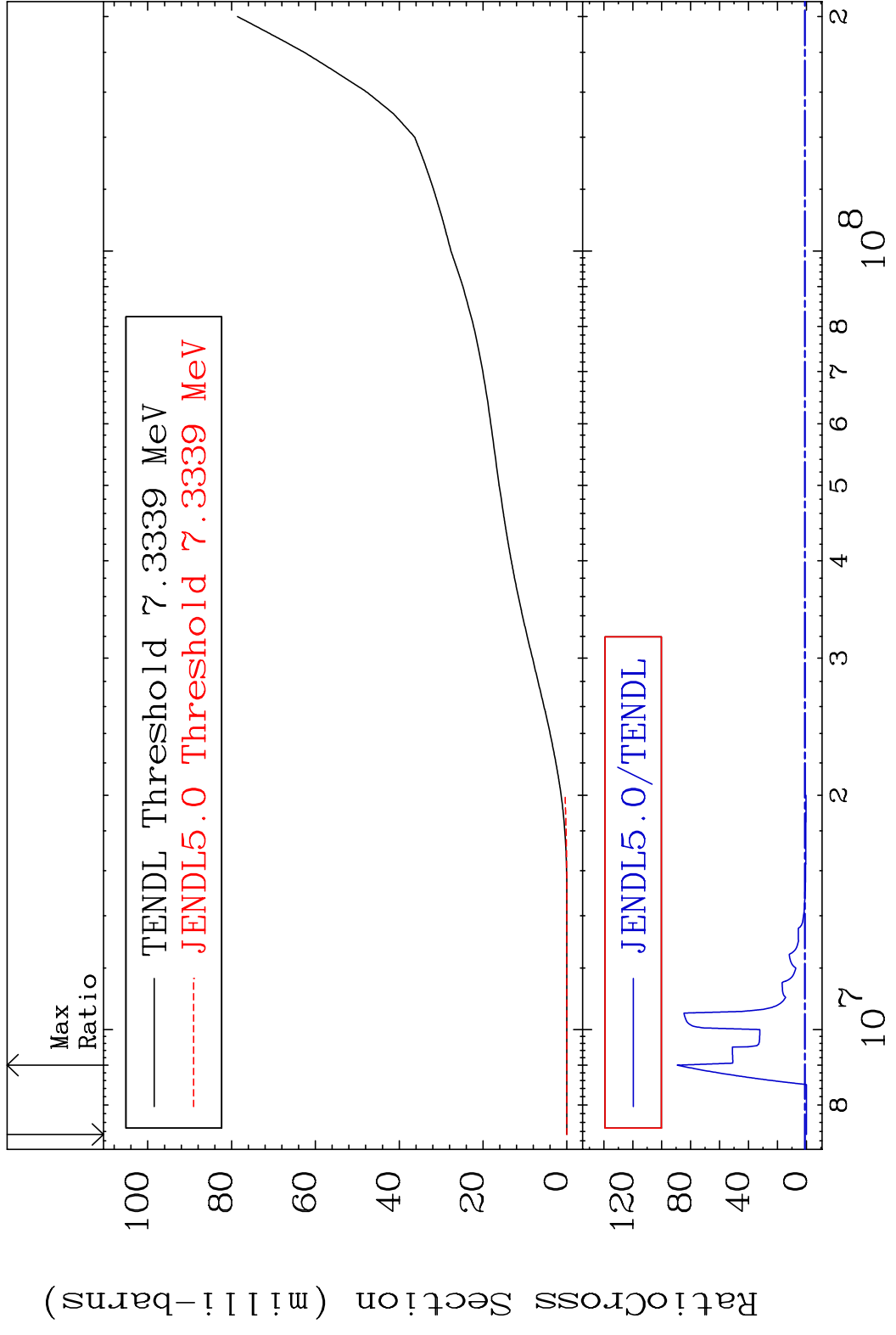


48

Incident Energy (eV)

52-Te-131m

MAT 5259 Tritium Production 52-Te-131m  
 Cross Section -100.0 To 8830. %



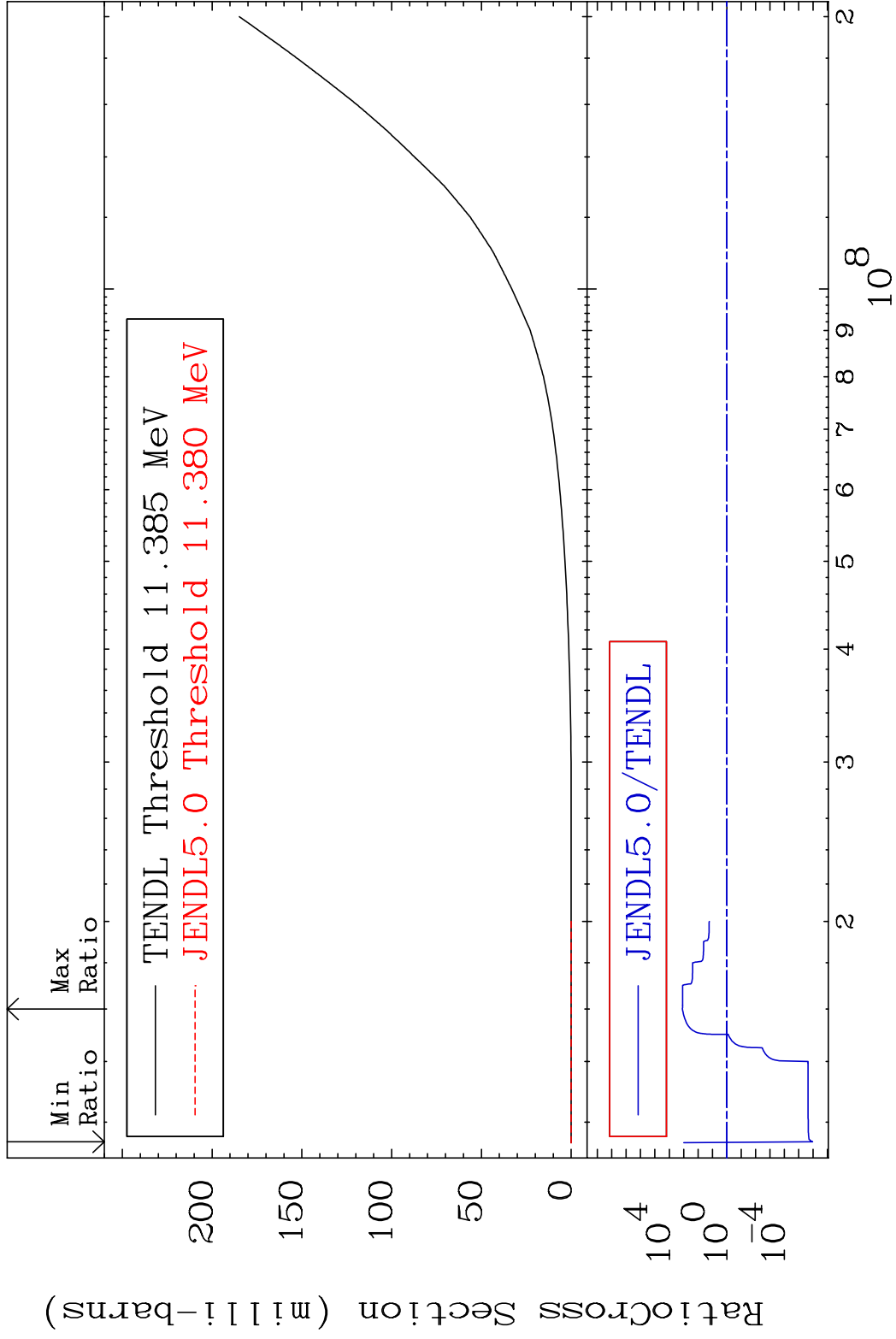
49 Incident Energy (eV) 52-Te-131m

MAT 5259

He-3 Production

52-Te-131m

Cross Section -100.0 To 9999. %

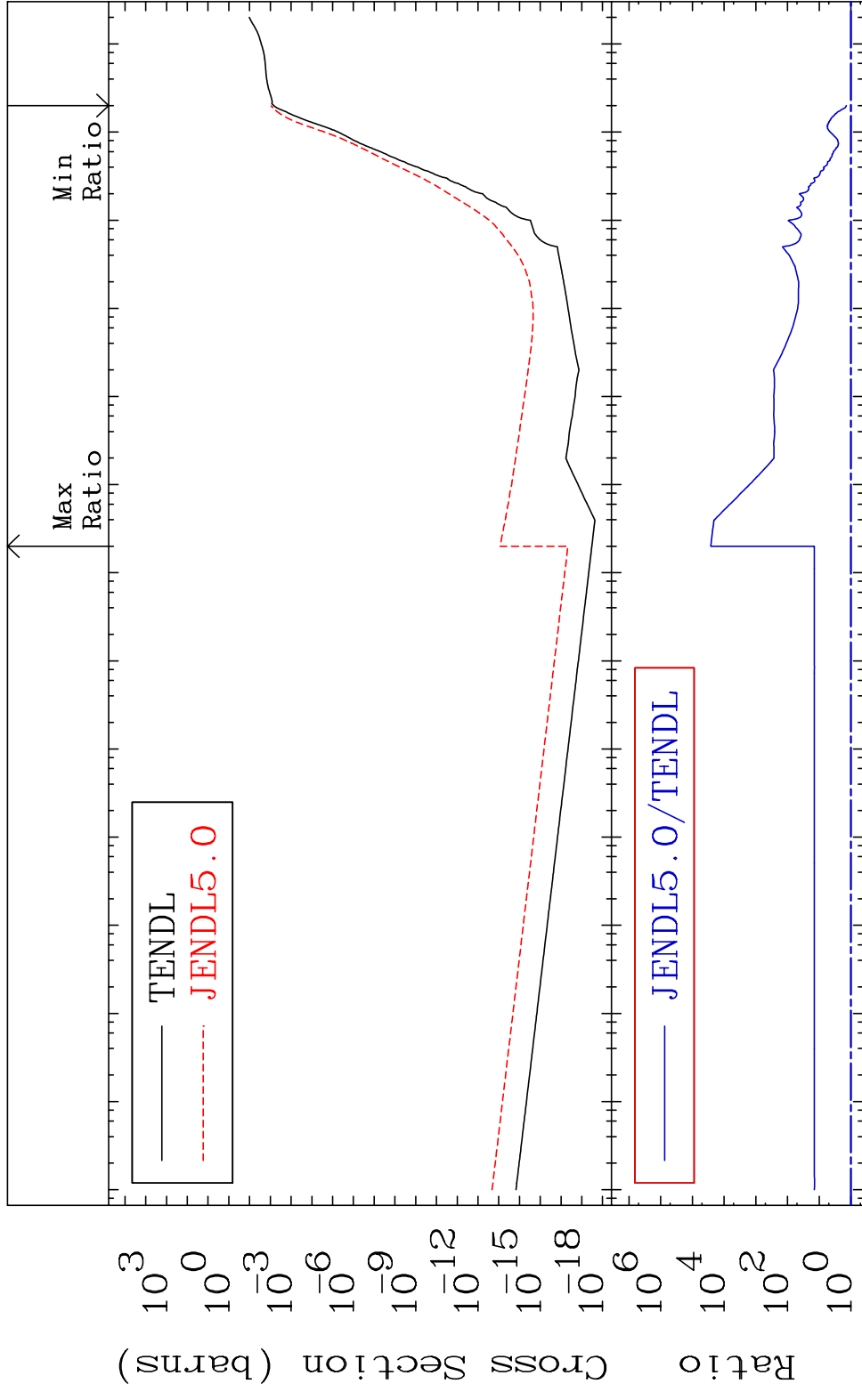


50

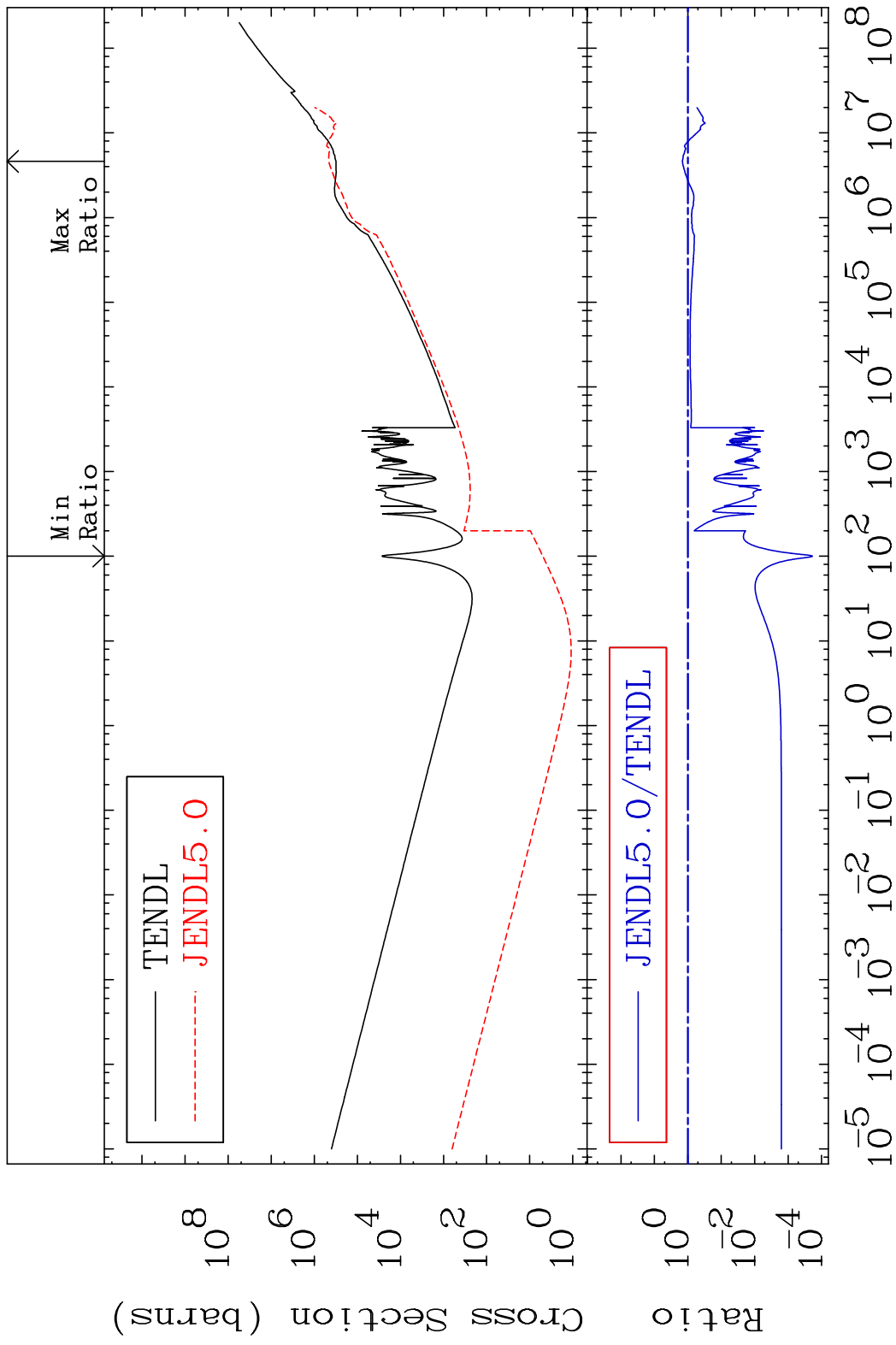
Incident Energy (eV)

52-Te-131m

MAT 5259 He-4 Production 52-Te-131m  
 Cross Section 39.68 To 9999. %



MAT 5259 Kerma total (eV-barns) 52-Te-131m  
 Cross Section -99.98 To 46.04 %



52 Incident Energy (eV) 52-Te-131m

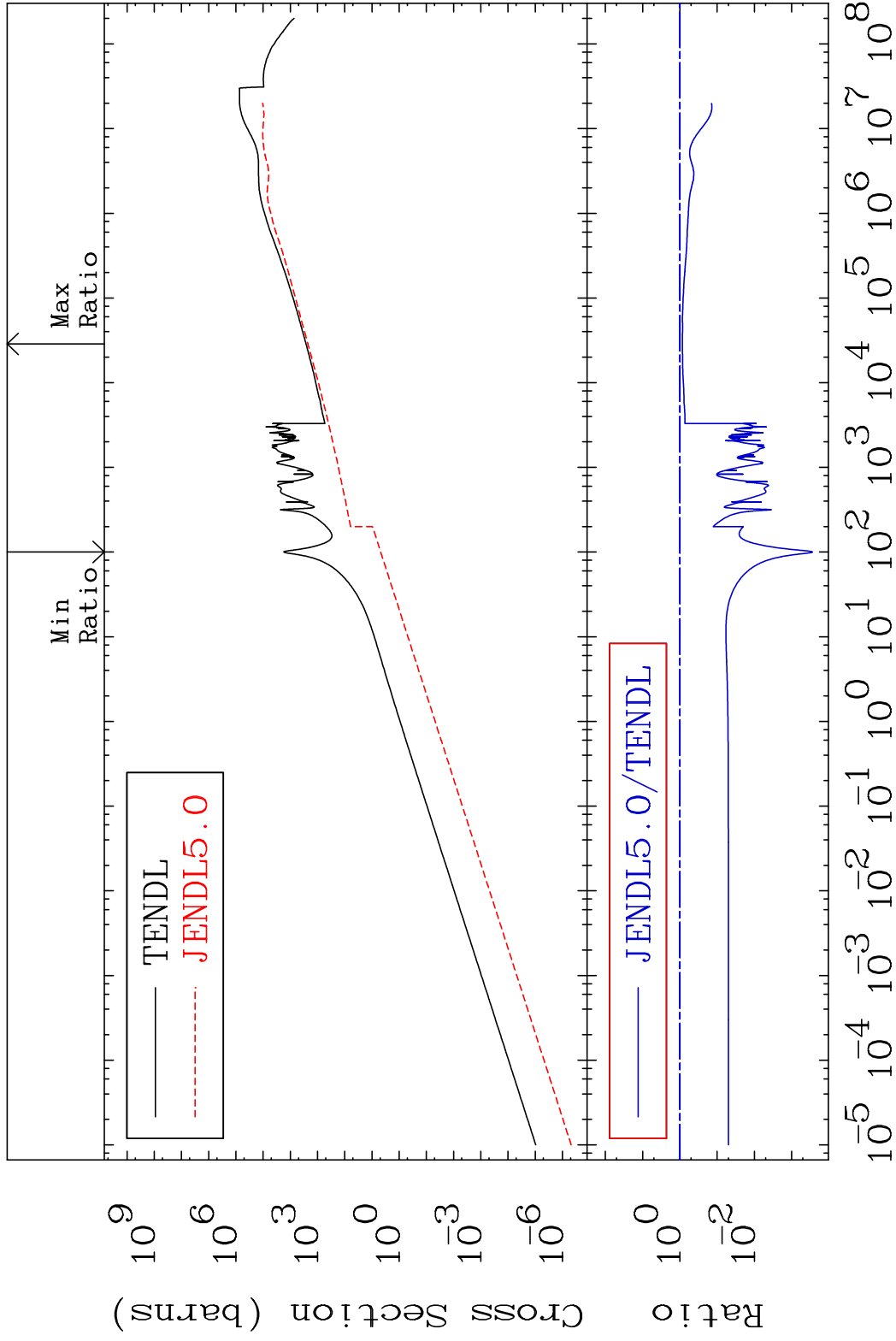
MAT 5259

Kerma elastic

52-Te-131m

Cross Section

-99.97 To -14.18%

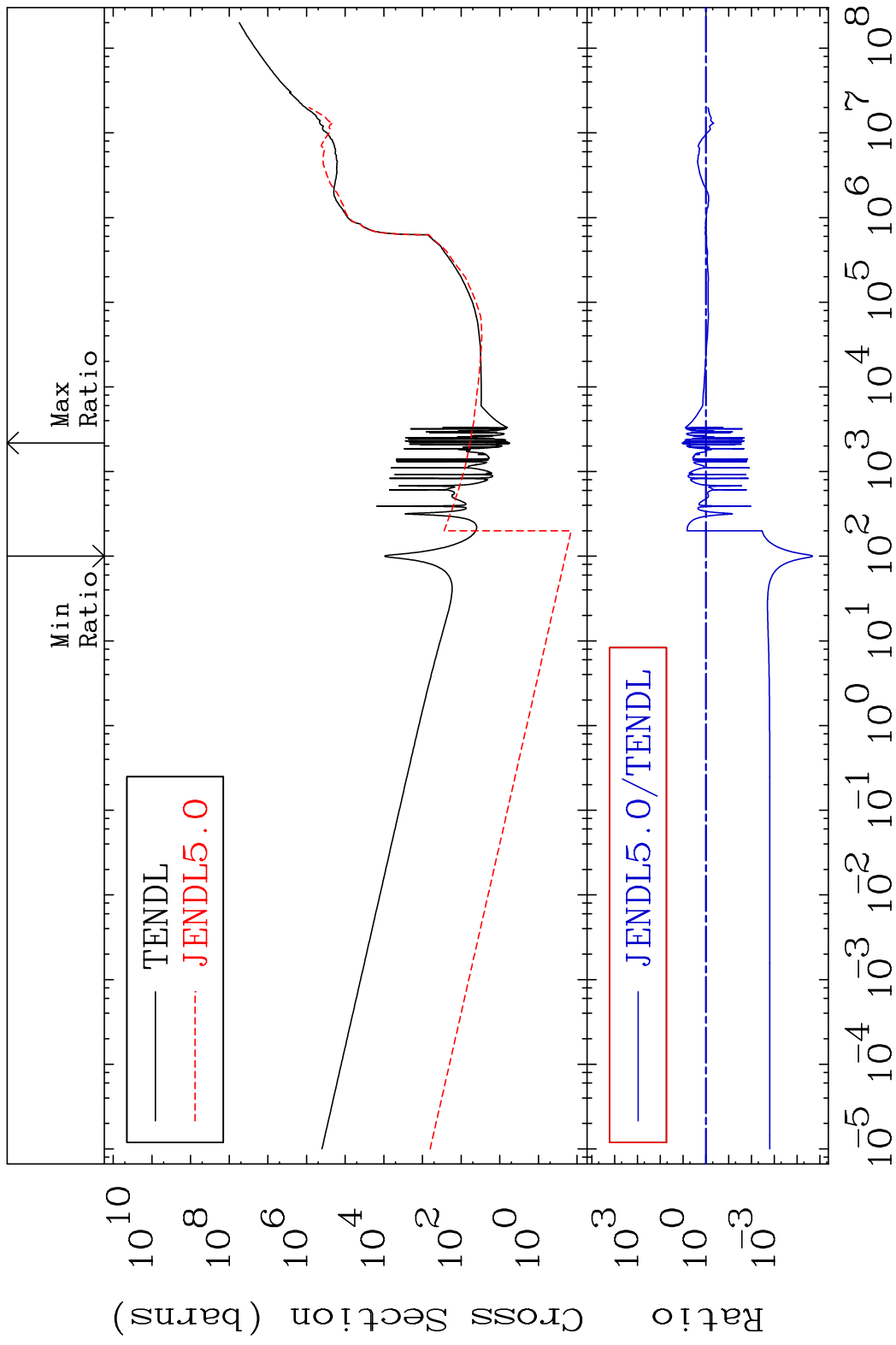


53

Incident Energy (eV)

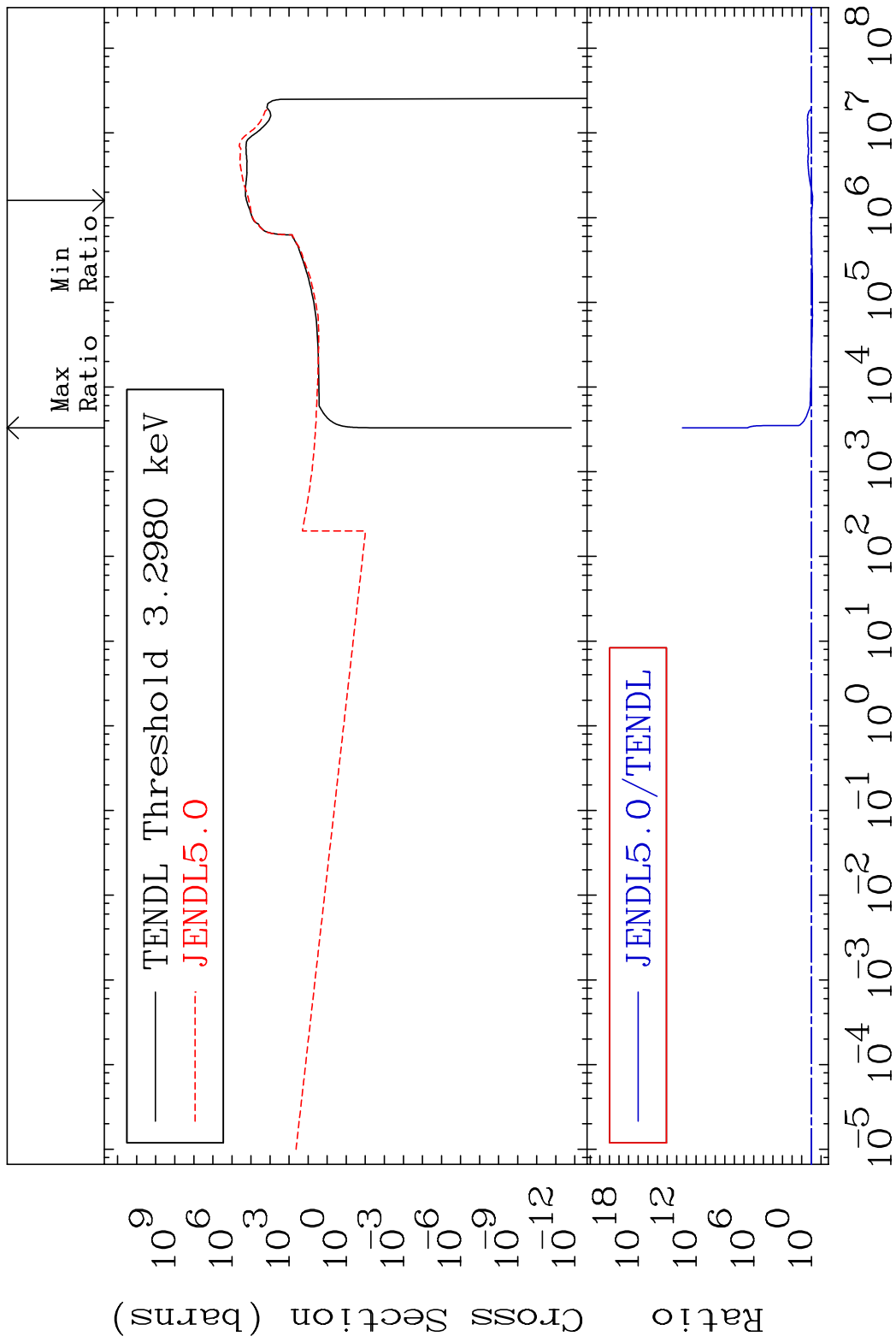
52-Te-131m

MAT 5259 Kerma non-elastic (all but mt2) 52-Te-131m  
 Cross Section -100.0 To 978.2 %



54 Incident Energy (eV) 52-Te-131m

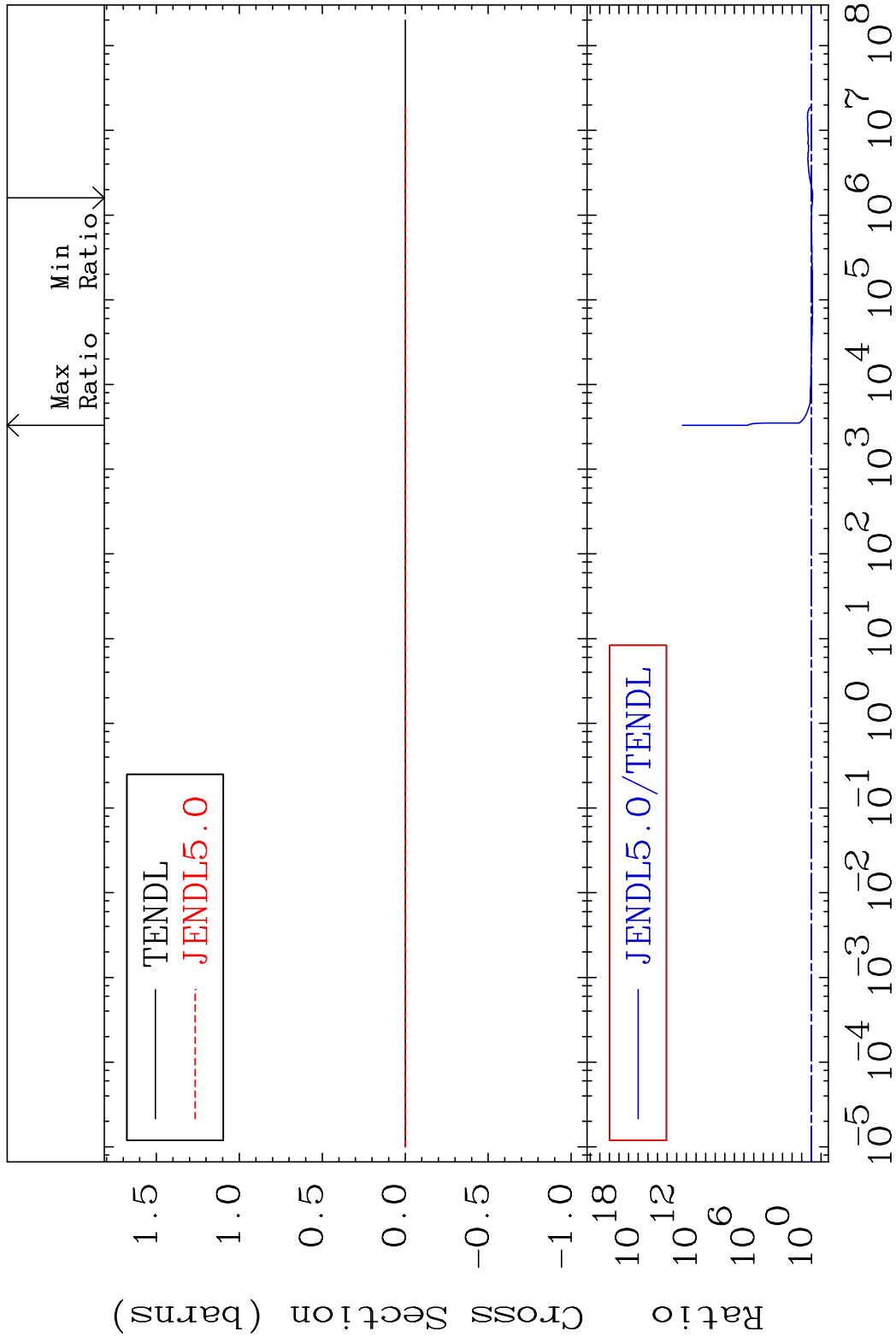
MAT 5259 Kerma inelastic (mt51-91) 52-Te-131m  
 Cross Section -24.72 To 9999. %



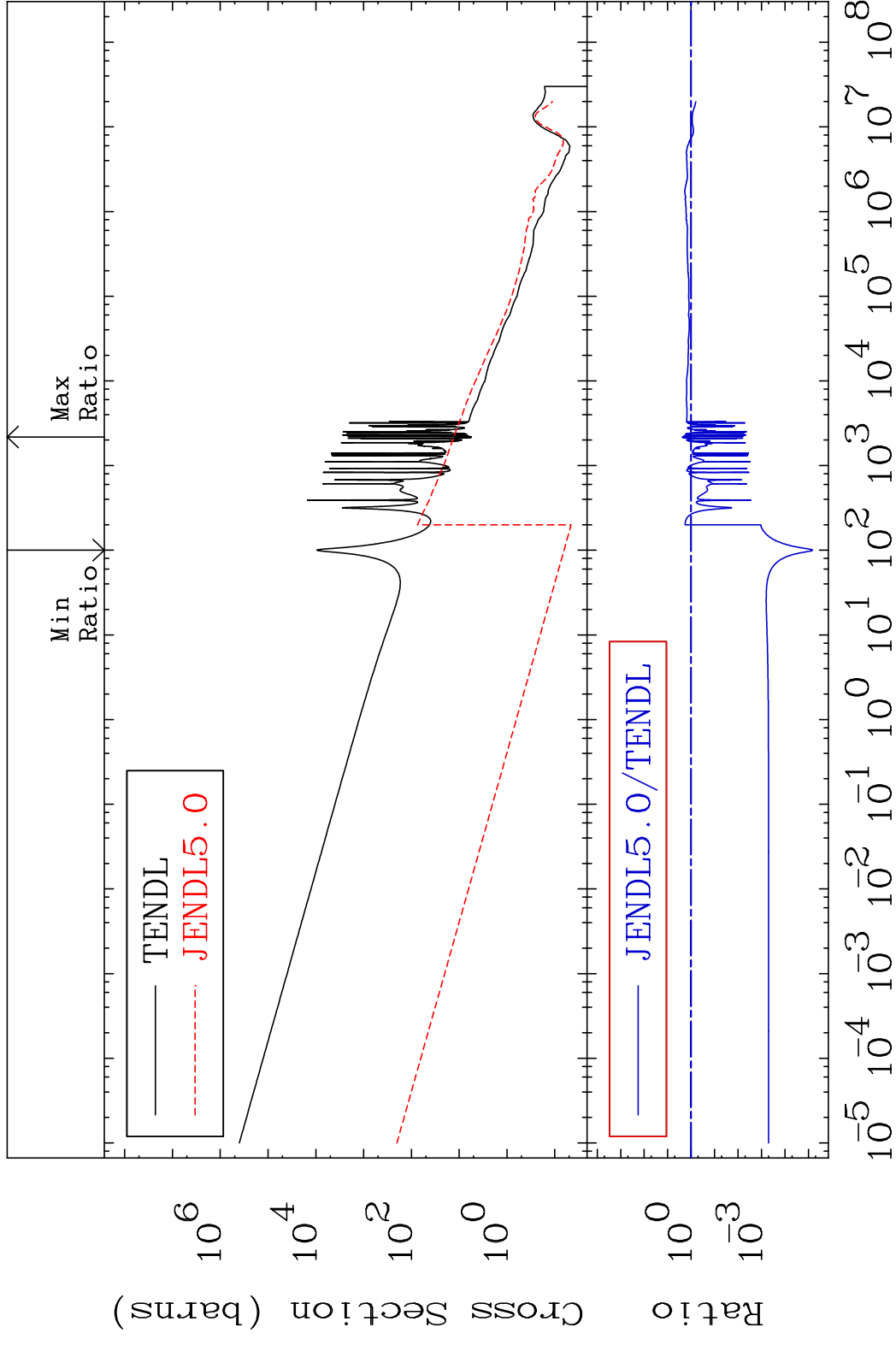
55 Incident Energy (eV) 52-Te-131m



MAT 5259 Kerma fission (mt18 or mt19-20-21-35) Te-131m  
 Cross Section -24.72 To 9999. %

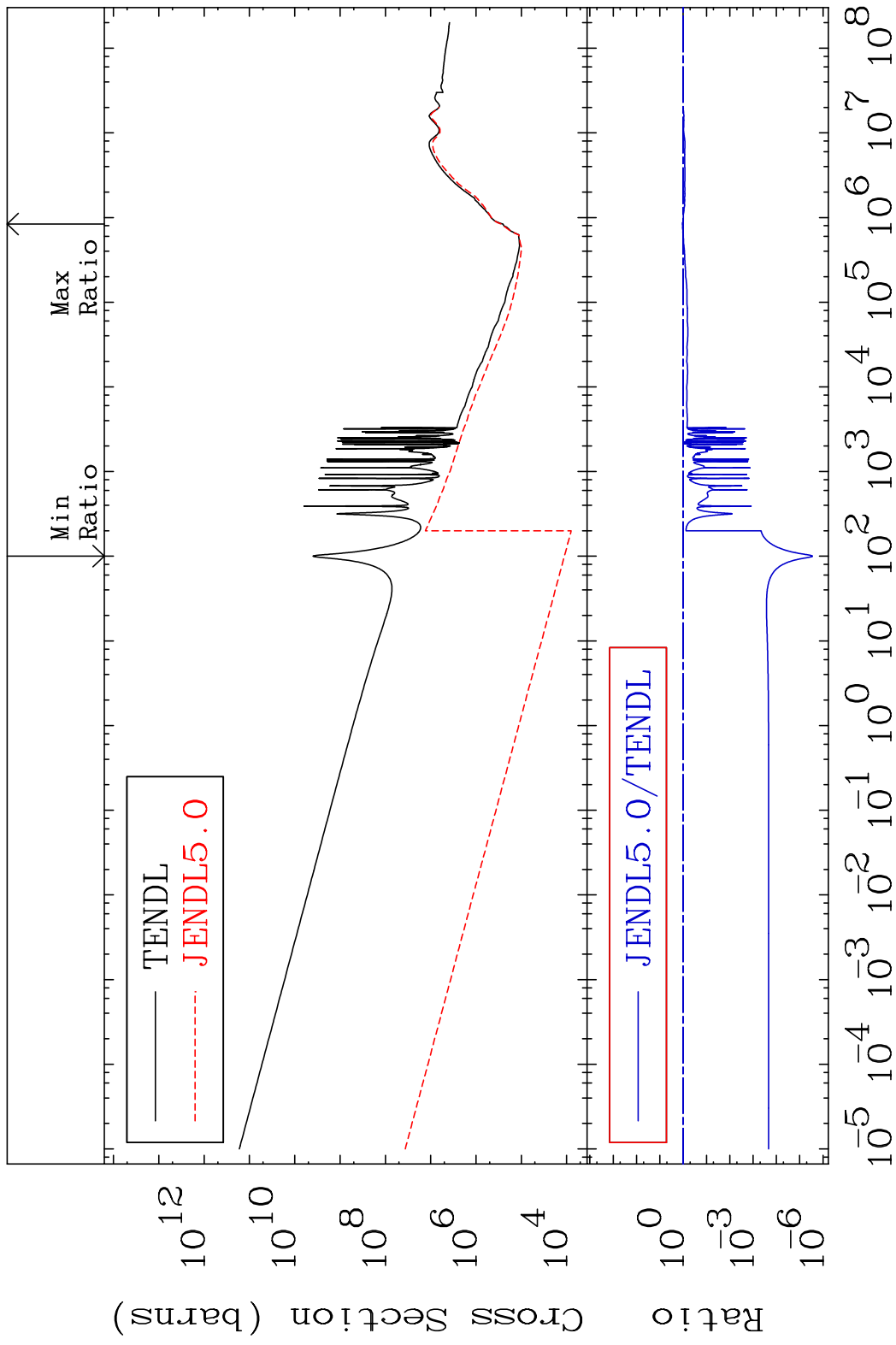


MAT 5259 Kerma capture (mt102) 52-Te-131m  
 Cross Section -100.0 To 136.9 %



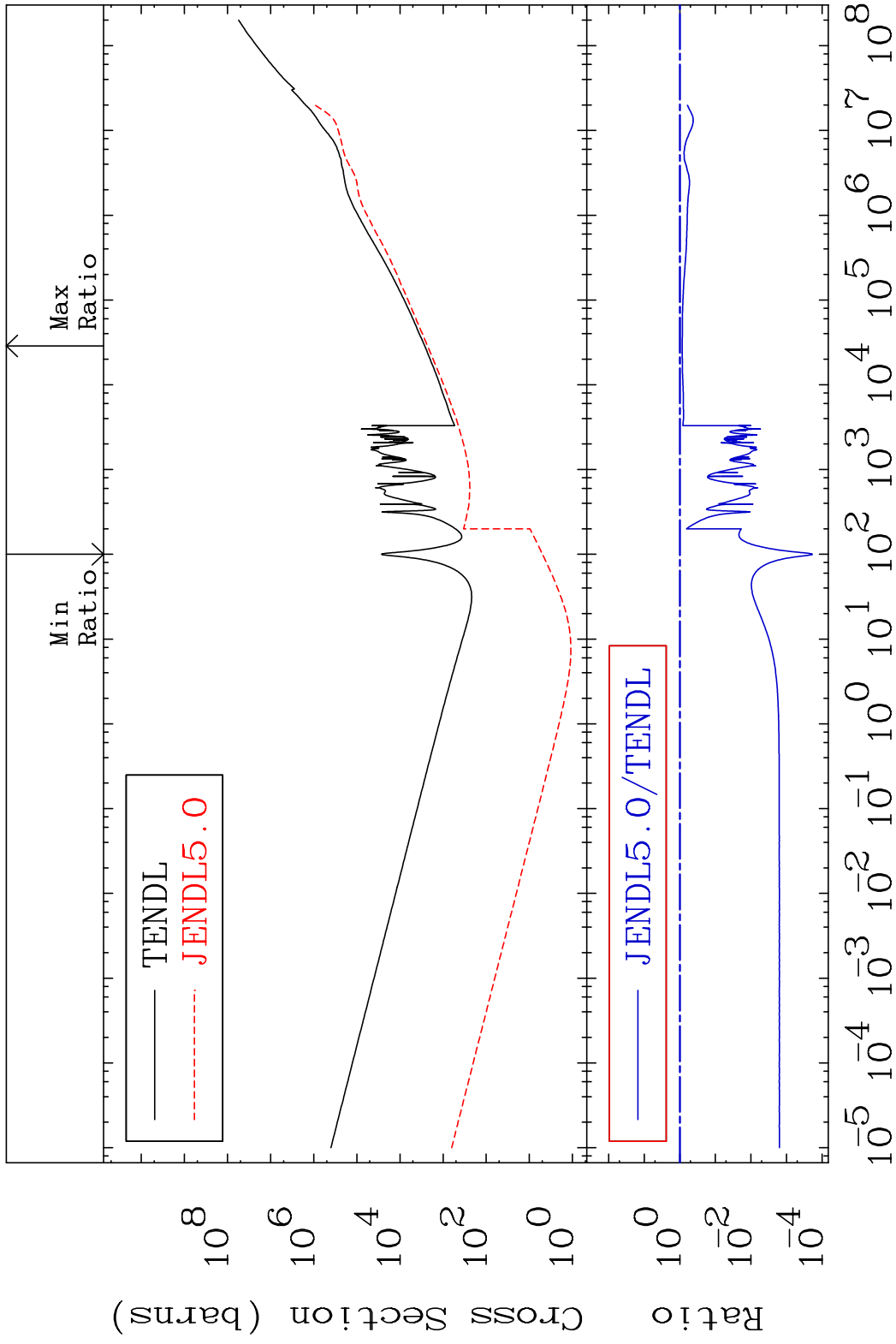
57 Incident Energy (eV) 52-Te-131m

MAT 5259 Total photon (eV-barns) 52-Te-131m  
 Cross Section -100.0 To 8.077 %

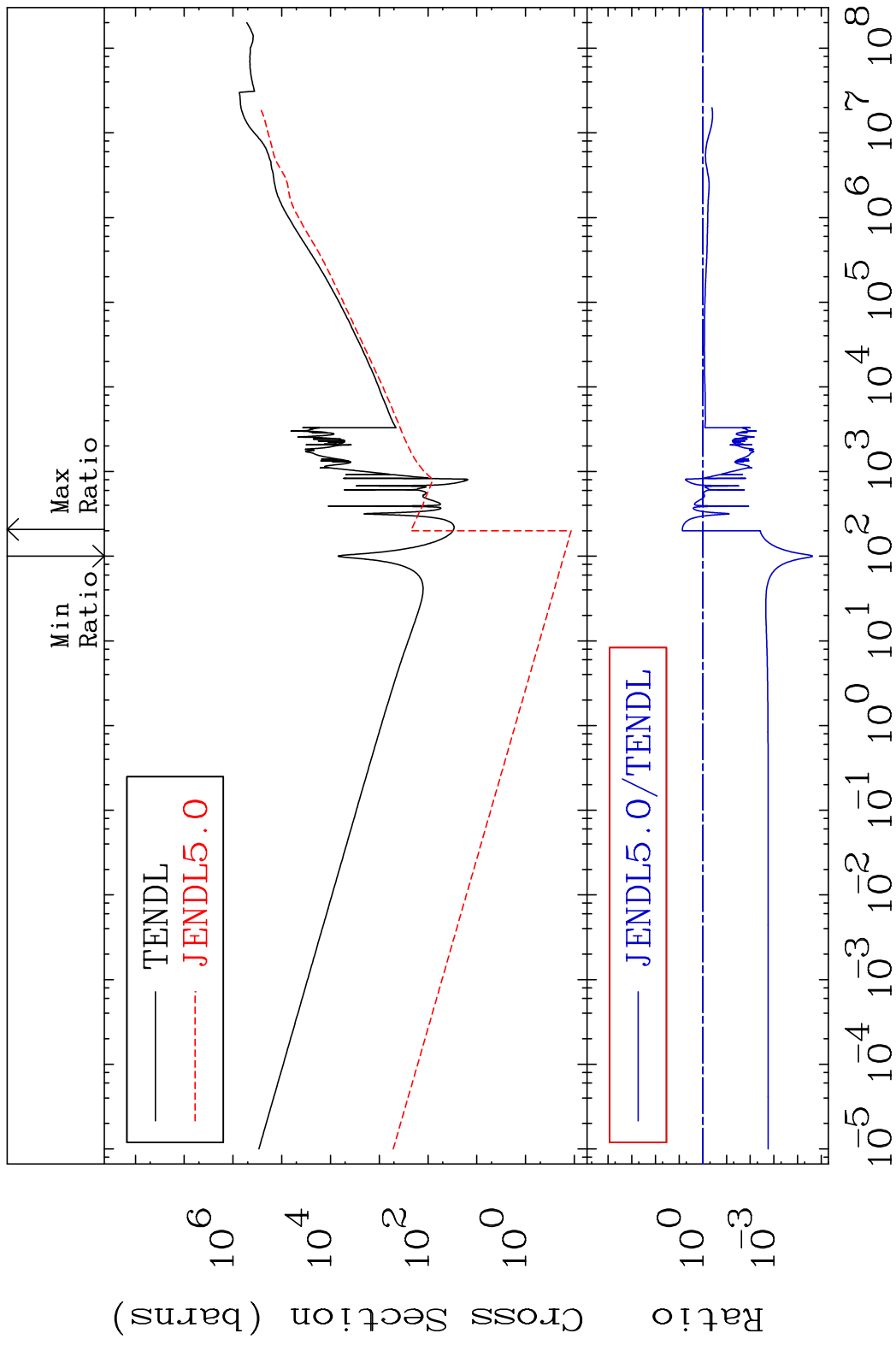


58 Incident Energy (eV) 52-Te-131m

MAT 5259 Total kinematic kerma (high limit)52-Te-131m  
Cross Section -99.98 To -14.06%



MAT 5259      Dpa total (eV-barns)      52-Te-131m  
Cross Section      -100.0 To 632.7 %



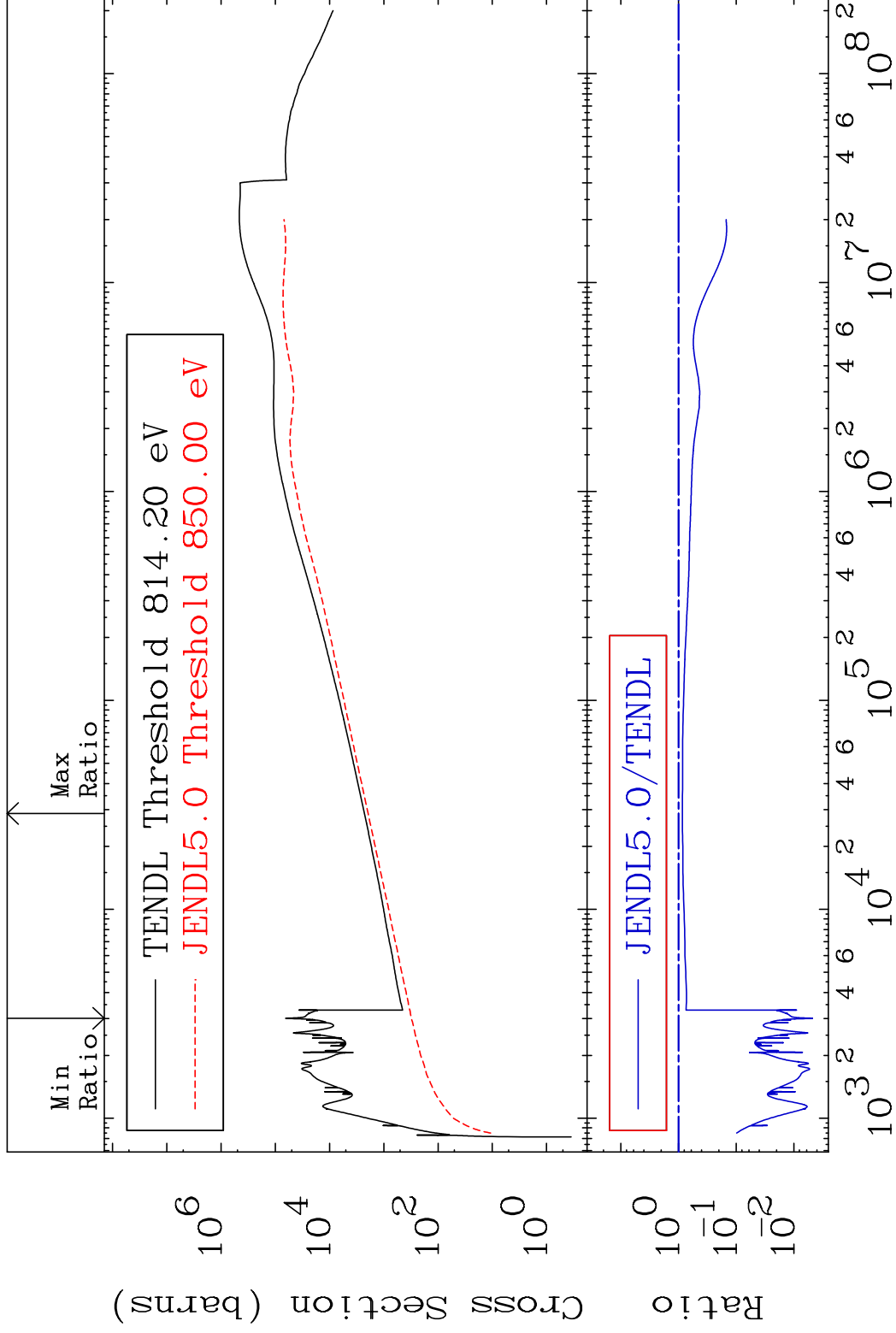
60      Incident Energy (eV)      52-Te-131m

MAT 5259

Dpa elastic (mt2)

52-Te-131m

Cross Section -99.53 To -14.10%

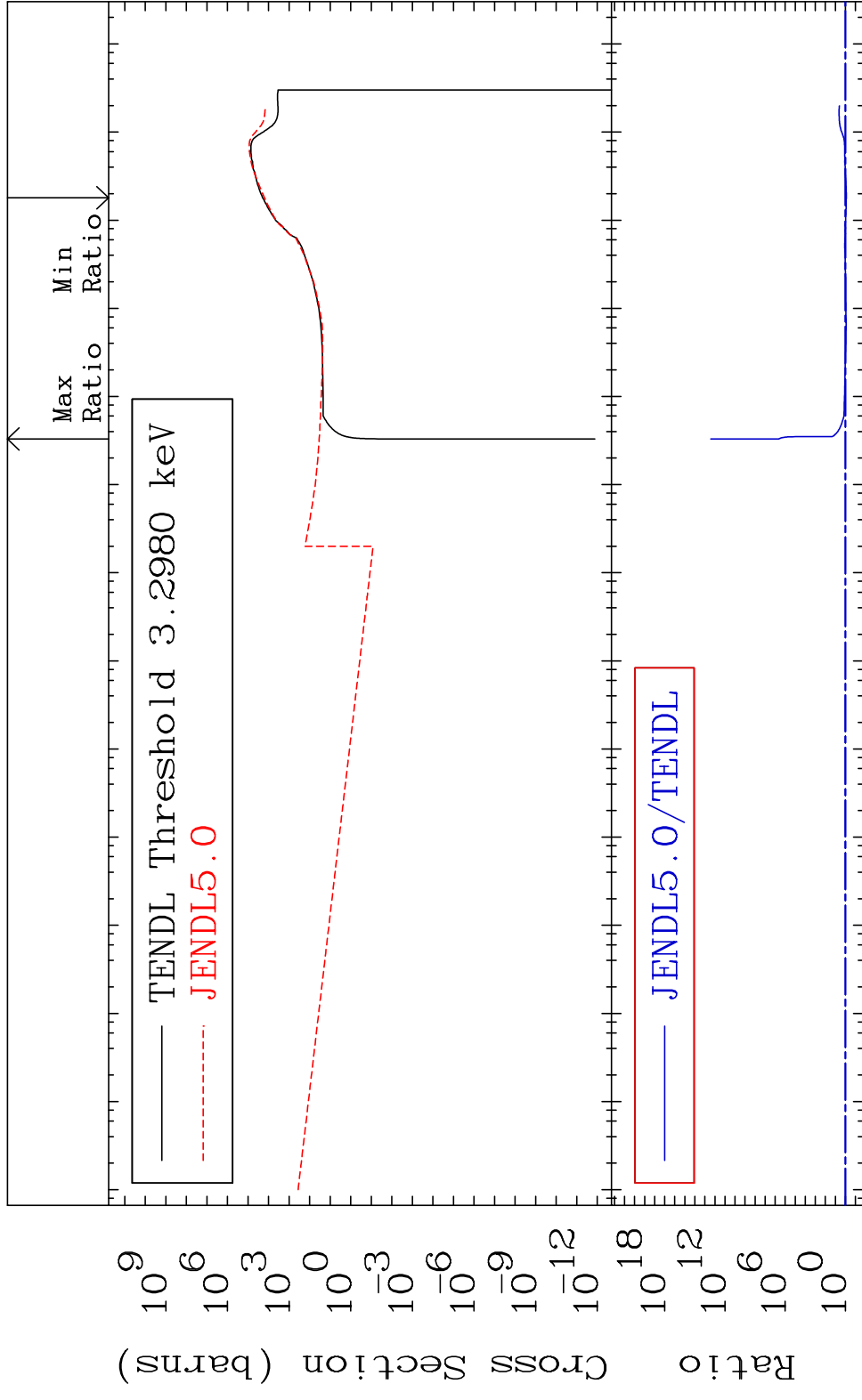


61

Incident Energy (eV)

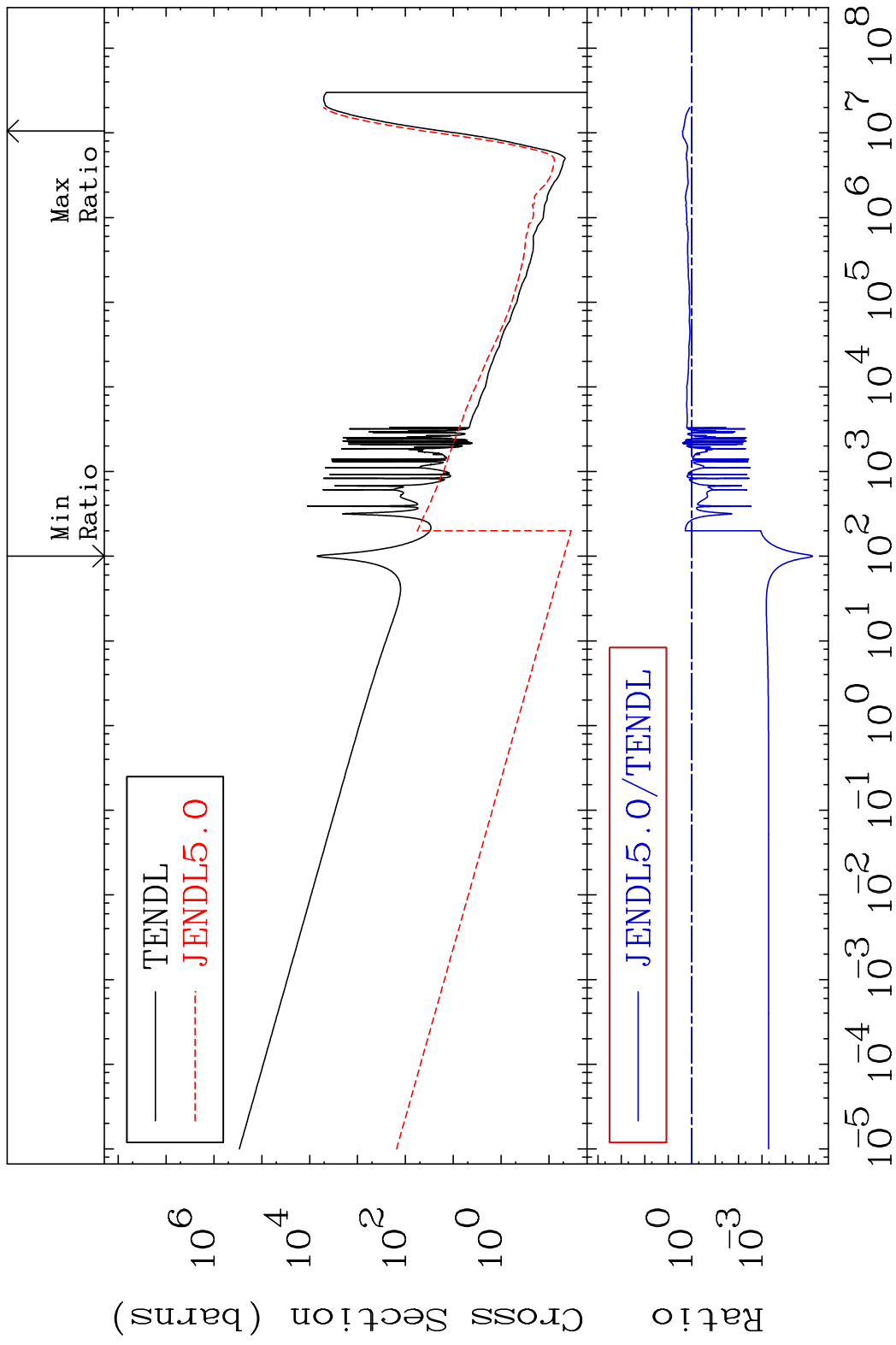
52-Te-131m

MAT 5259 Dpa inelastic (mt51-91) 52-Te-131m  
 Cross Section -18.56 To 9999. %



$10^{-5}$   $10^{-4}$   $10^{-3}$   $10^{-2}$   $10^{-1}$   $10^0$   $10^1$   $10^2$   $10^3$   $10^4$   $10^5$   $10^6$   $10^7$   $10^8$

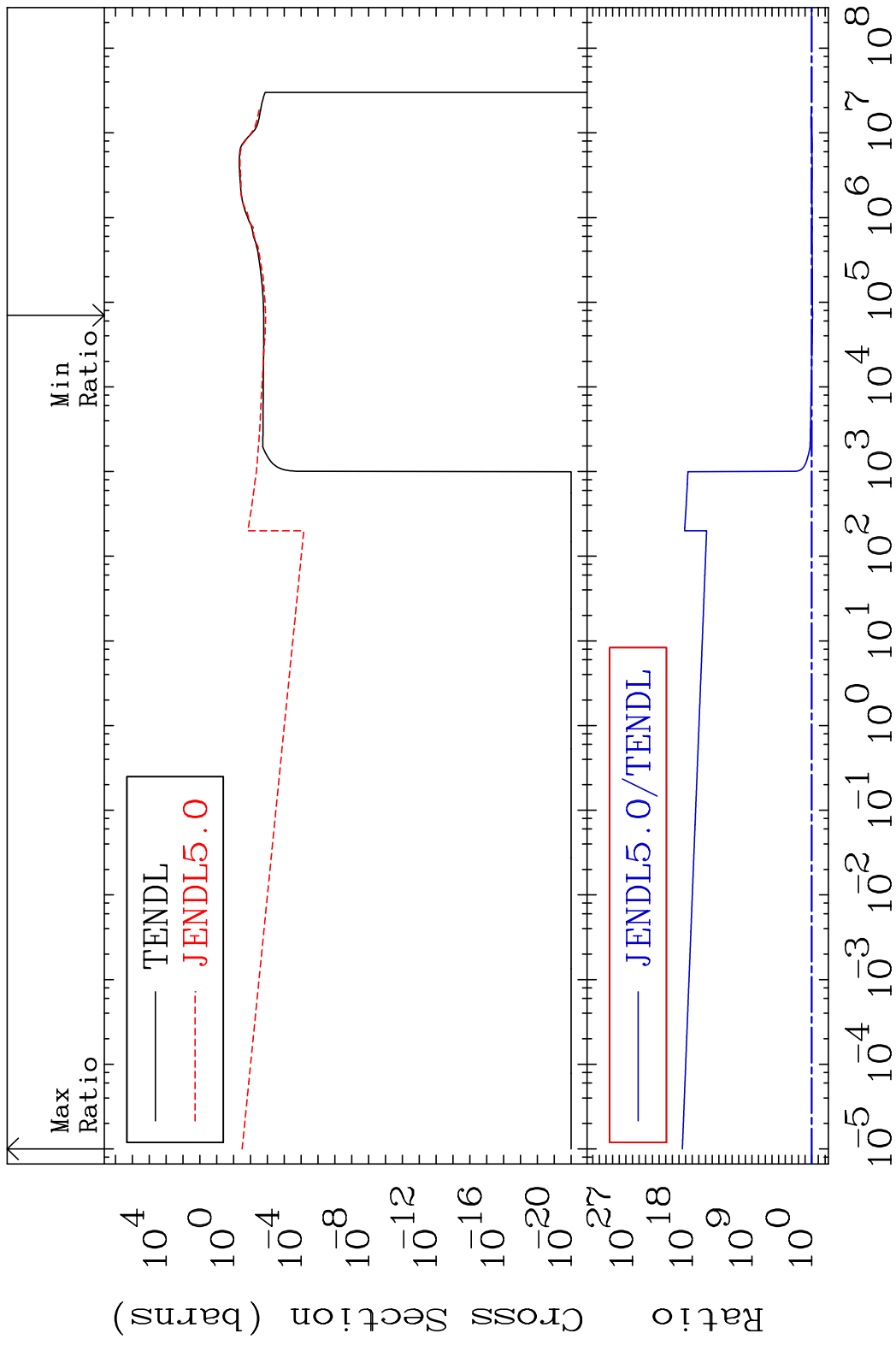
MAT 5259 Dpa disappearance (mt102 -120) 52-Te-131m  
 Cross Section -100.0 To 149.9 %



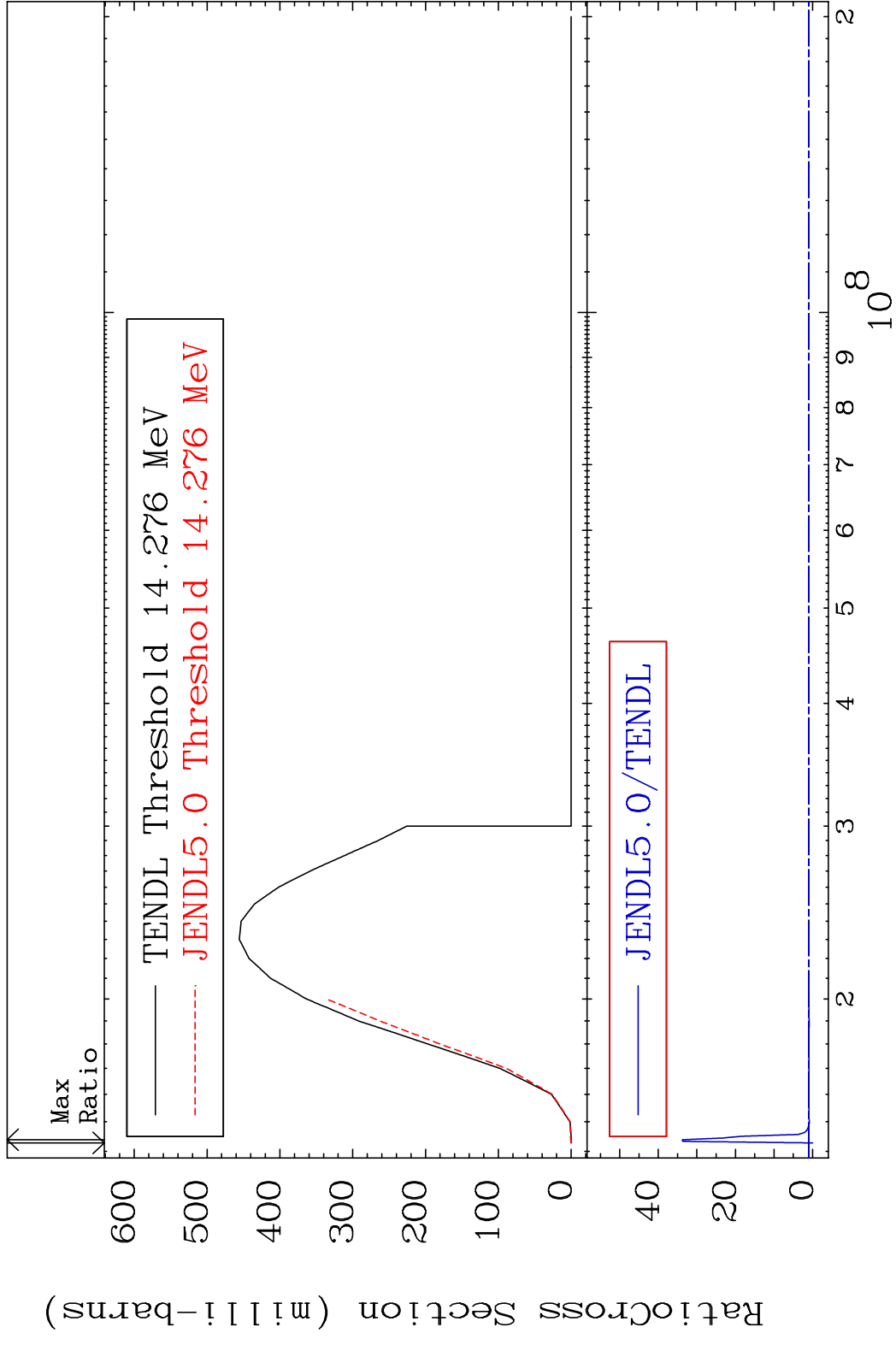
63 Incident Energy (eV) 52-Te-131m



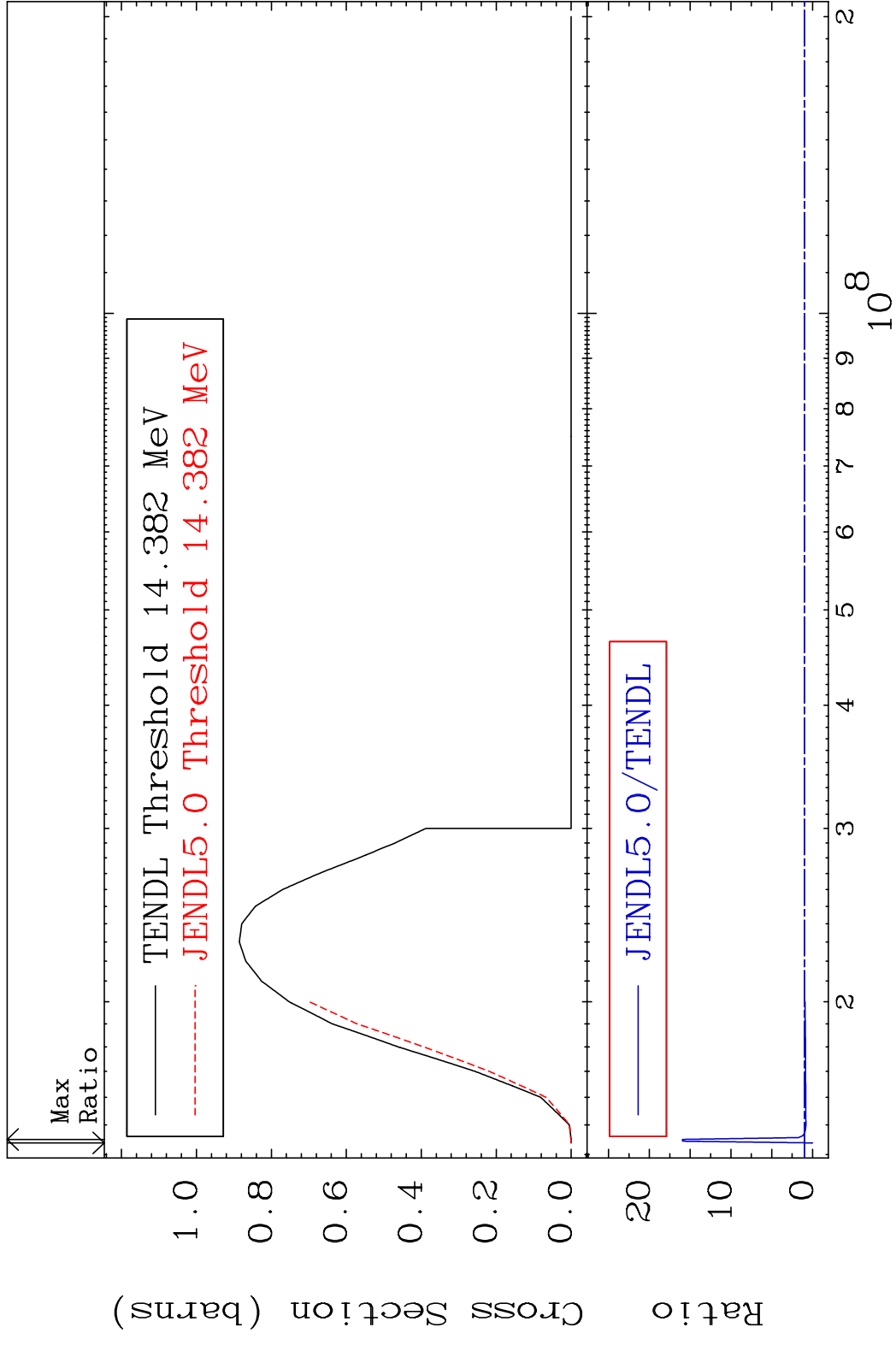
MAT 5259 Inelastic:52-Te-131g 52-Te-131m  
 Radionuclide Production Cross Section 9999. %



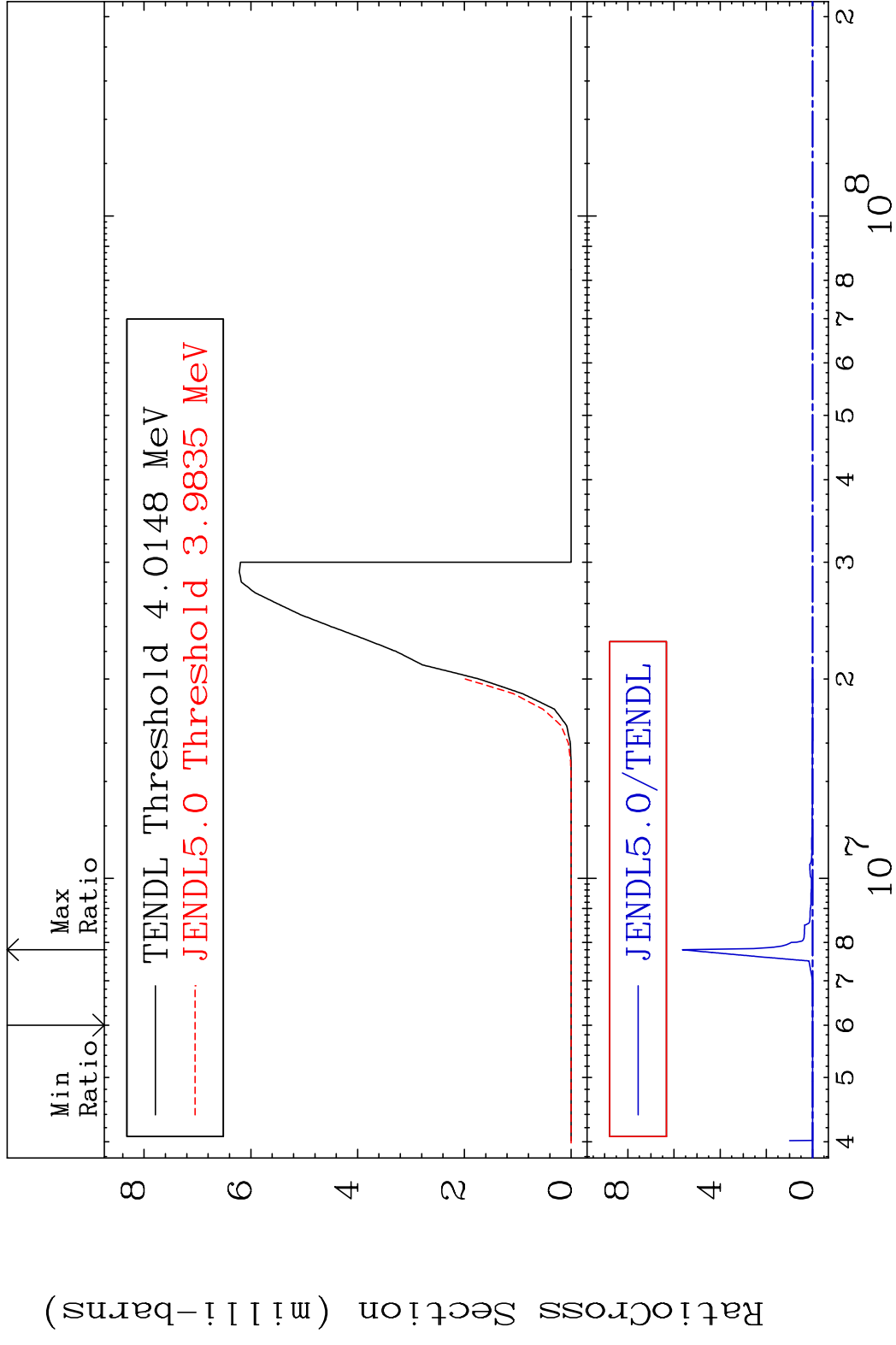
MAT 5259 (n,3n):52-Te-129g 52-Te-131m  
 Radionuclide Production Cross Section to 3276. %



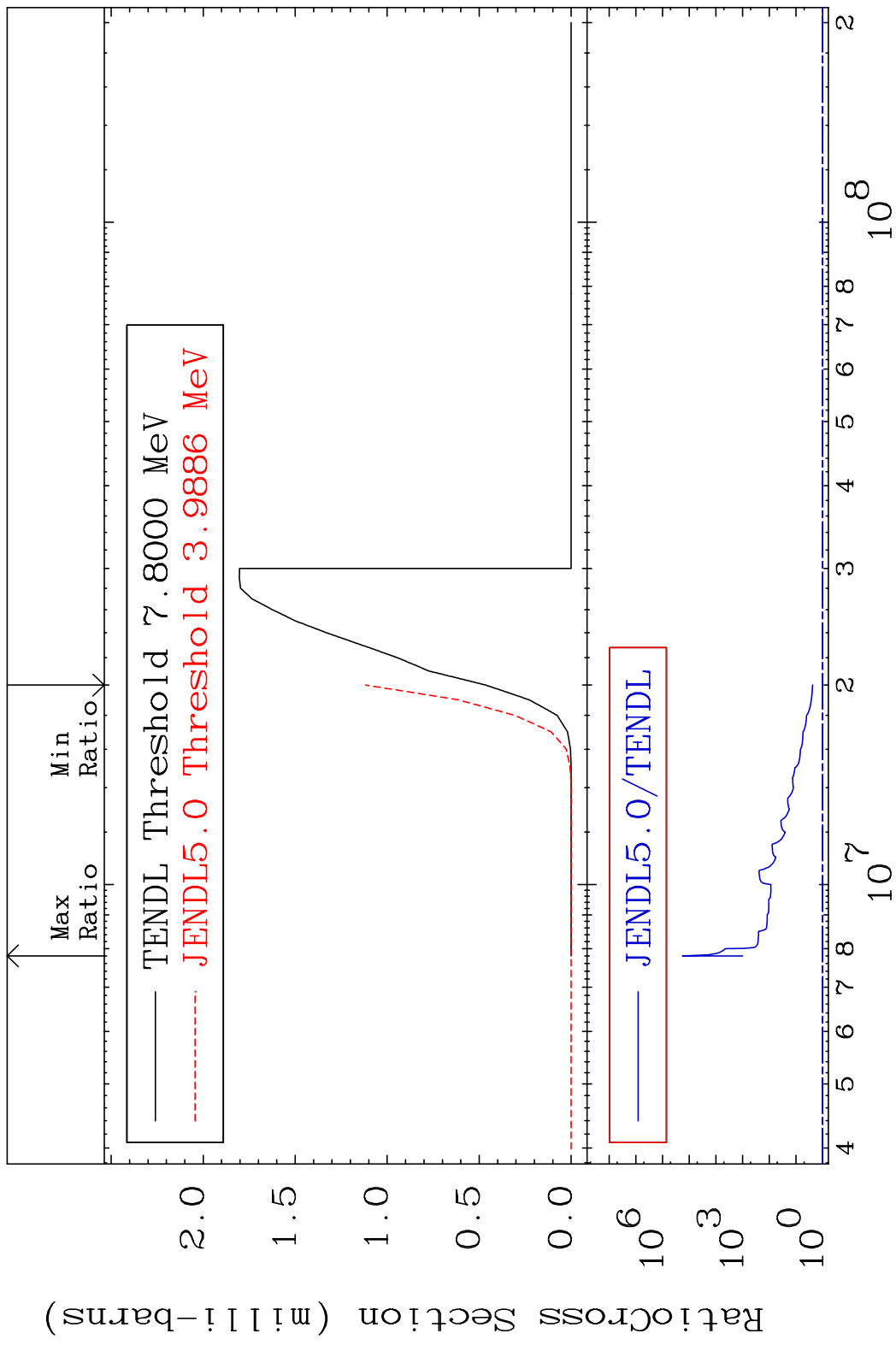
MAT 5259 (n, 3n):52-Te-129m1 52-Te-131m  
 Radionuclide Production Cross Section 180.01 dth 1496. %



MAT 5259 (n, n')  $\alpha$ :50-Sn-127g 52-Te-131m  
 Radionuclide Production Cross Section to 9999. %

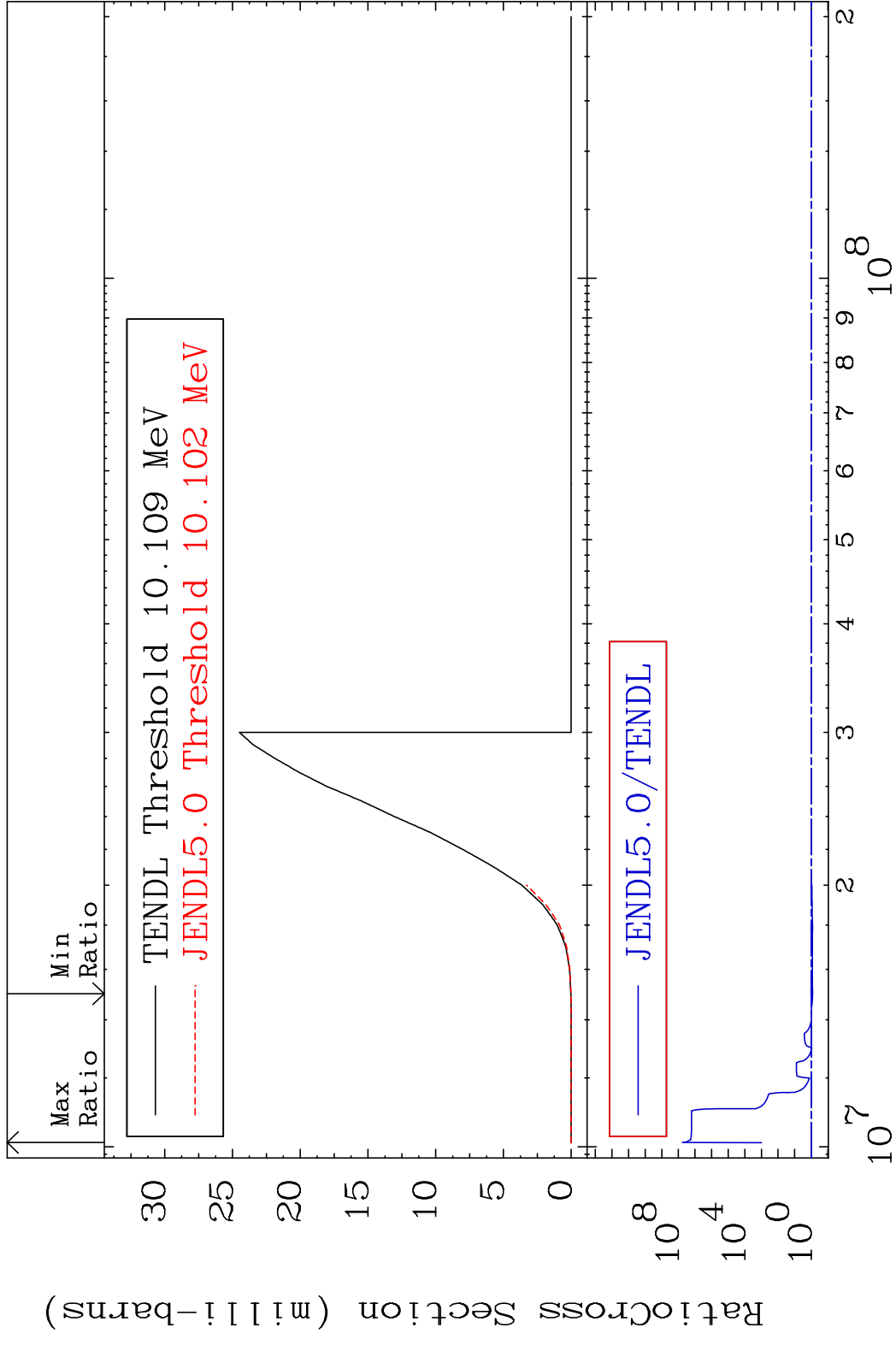


MAT 5259 (n, n')  $\alpha$ :50-Sn-127m1 52-Te-131m  
 Radionuclide Production Cross Section Ratio 9999. %

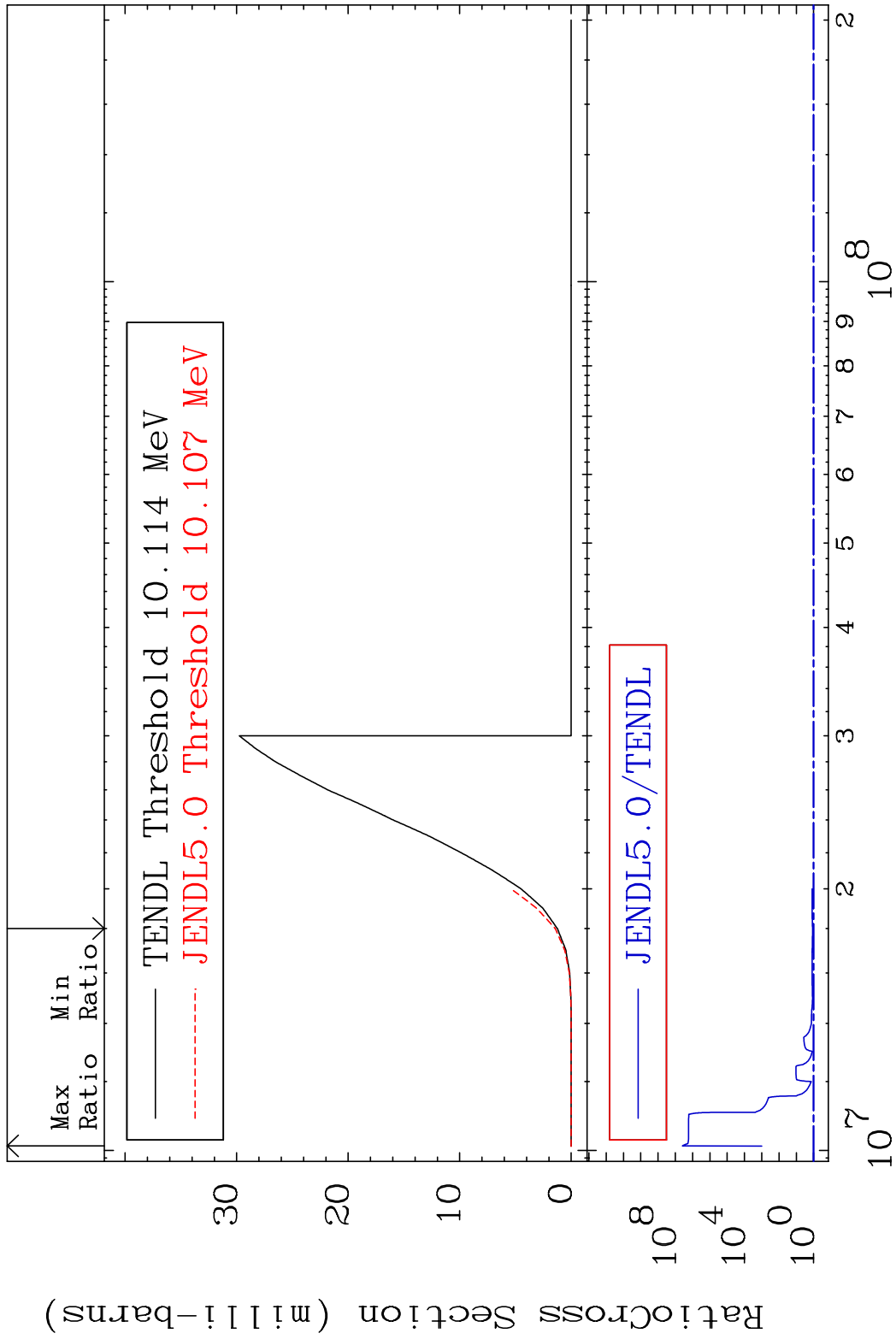


68 Incident Energy (eV) 52-Te-131m

MAT 5259 (n, n') p:51-Sb-130g 52-Te-131m  
 Radionuclide Production Cross Section to 9999. %

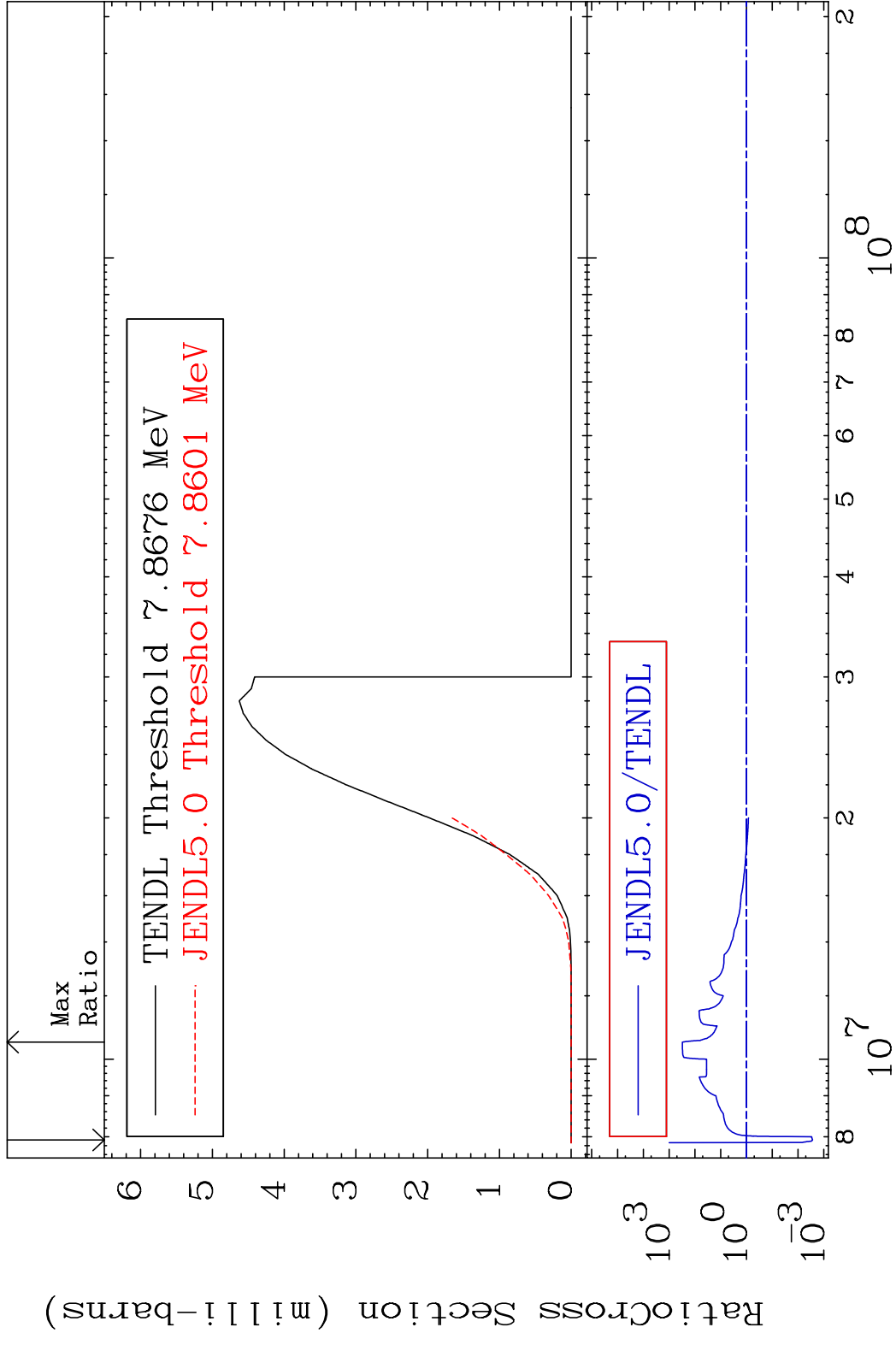


MAT 5259 (n, n') p:51-Sb-130m1 52-Te-131m  
 Radionuclide Production Cross Section



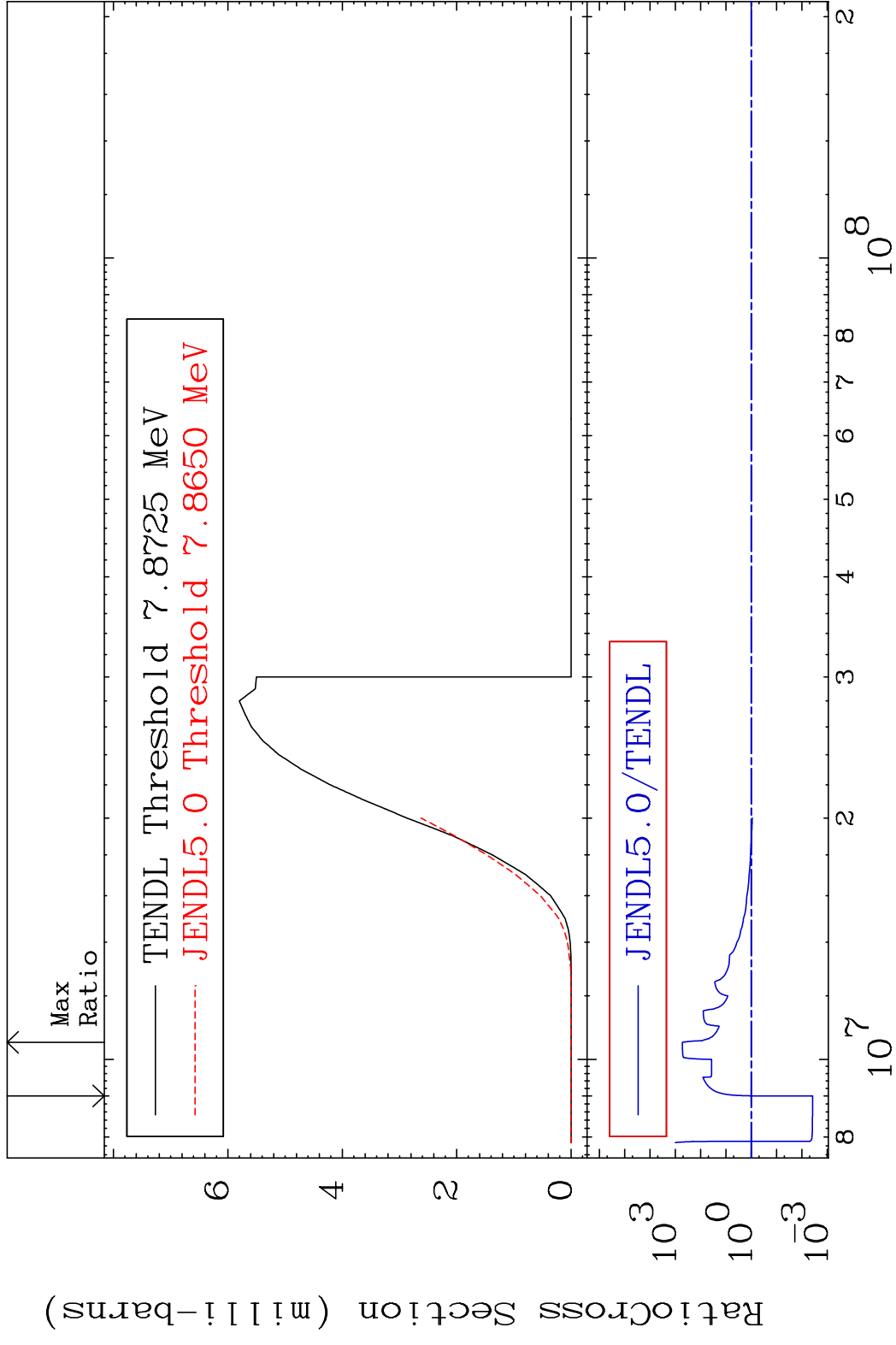
70 Incident Energy (eV) 52-Te-131m

MAT 5259 (n,d):51-Sb-130g 52-Te-131m  
 Radionuclide Production Cross Section to 9999. %

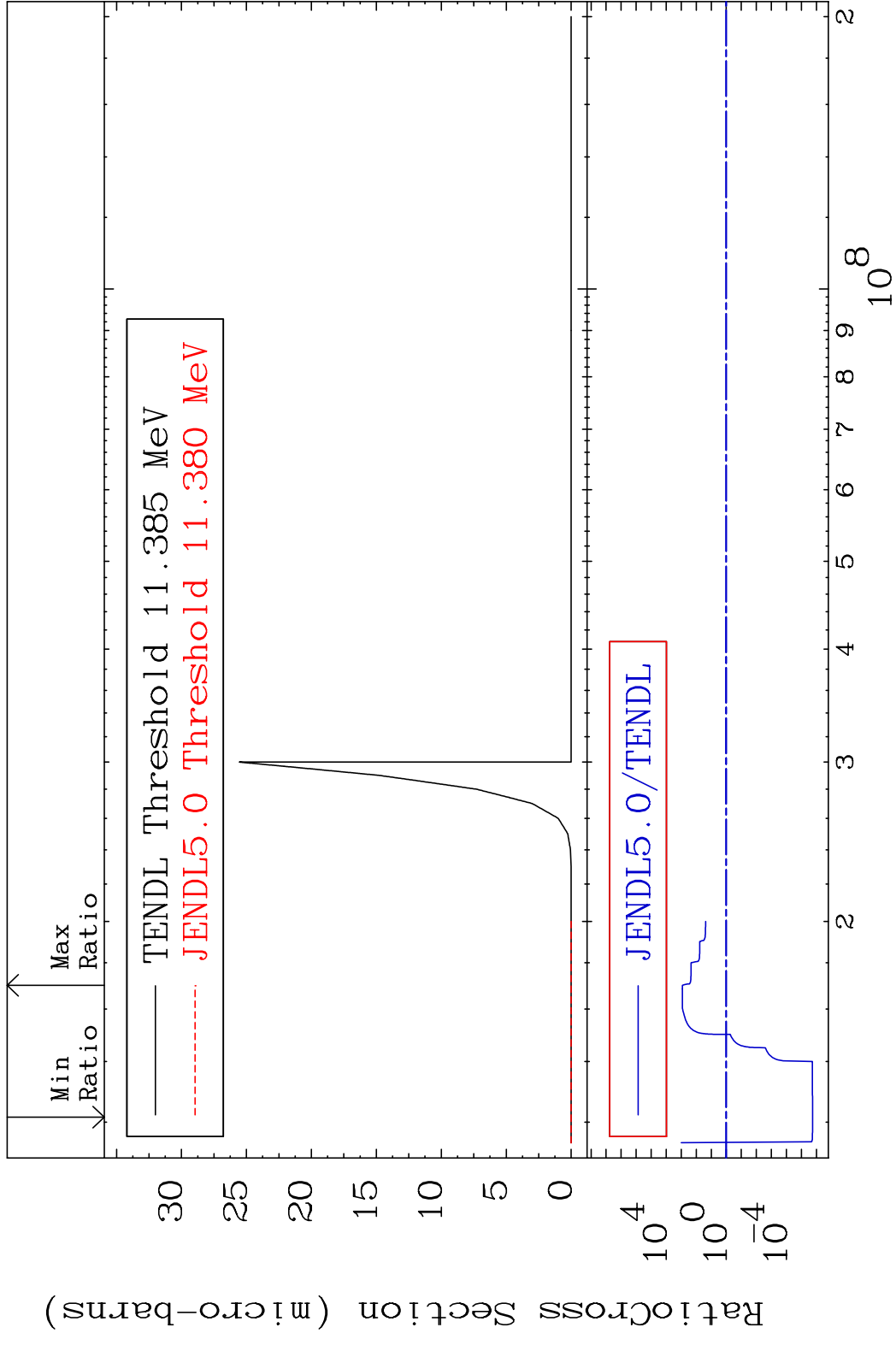




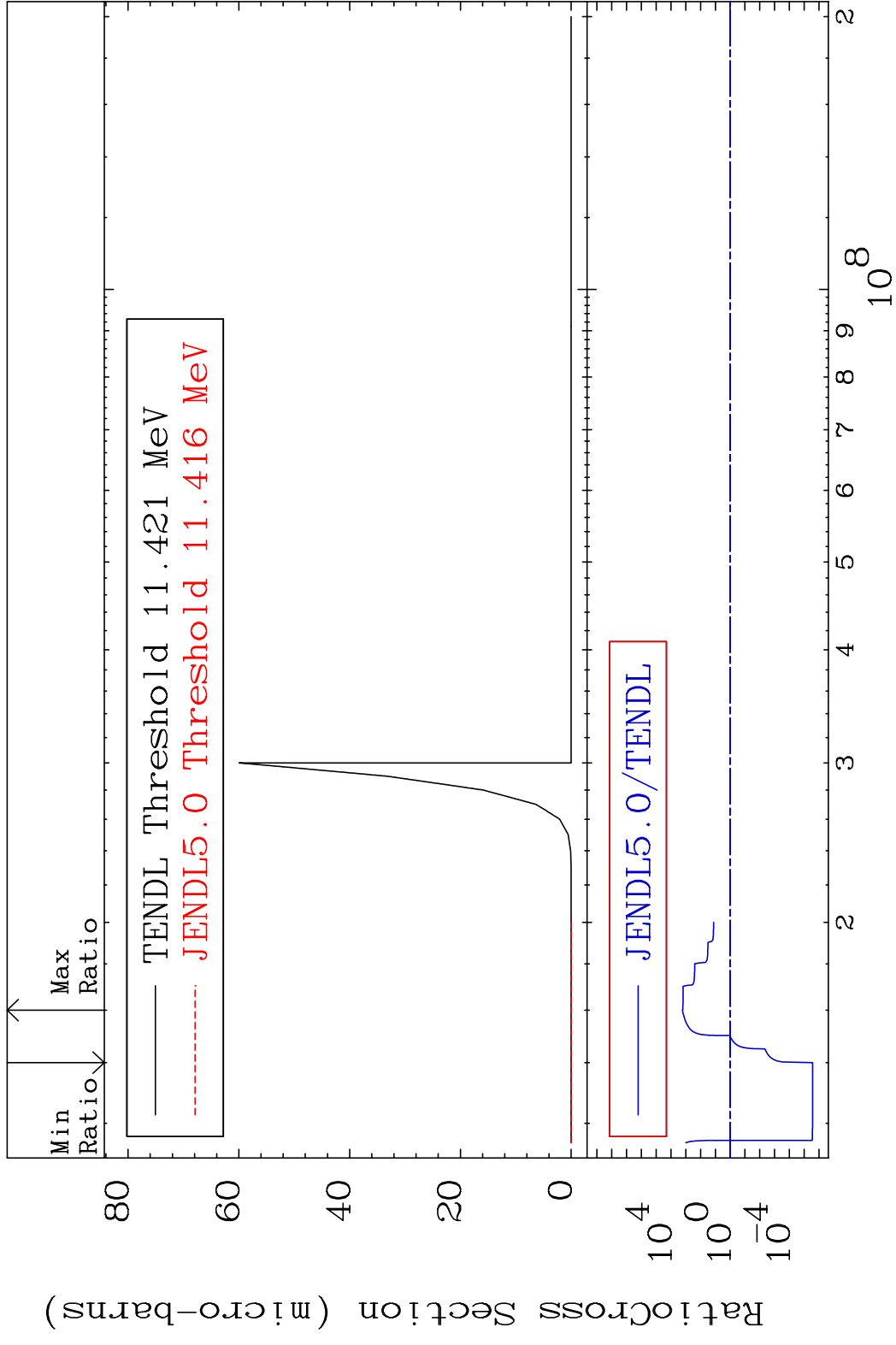
MAT 5259 (n,d):51-Sb-130m1 52-Te-131m  
 Radionuclide Production Cross Section to 9999. %



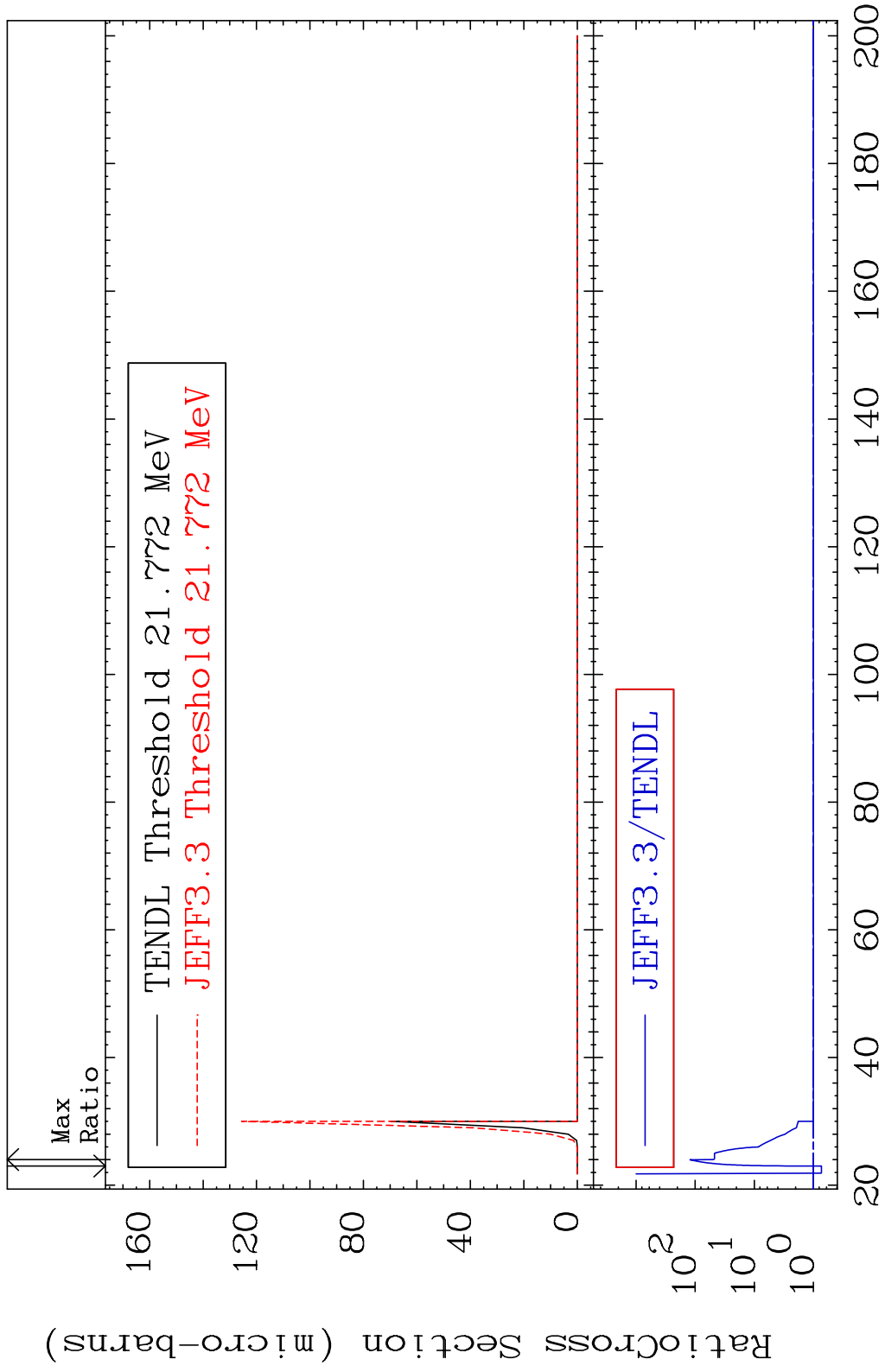
MAT 5259 (n, He-3):50-Sn-129g 52-Te-131m  
 Radionuclide Production Cross Section 100.00 %



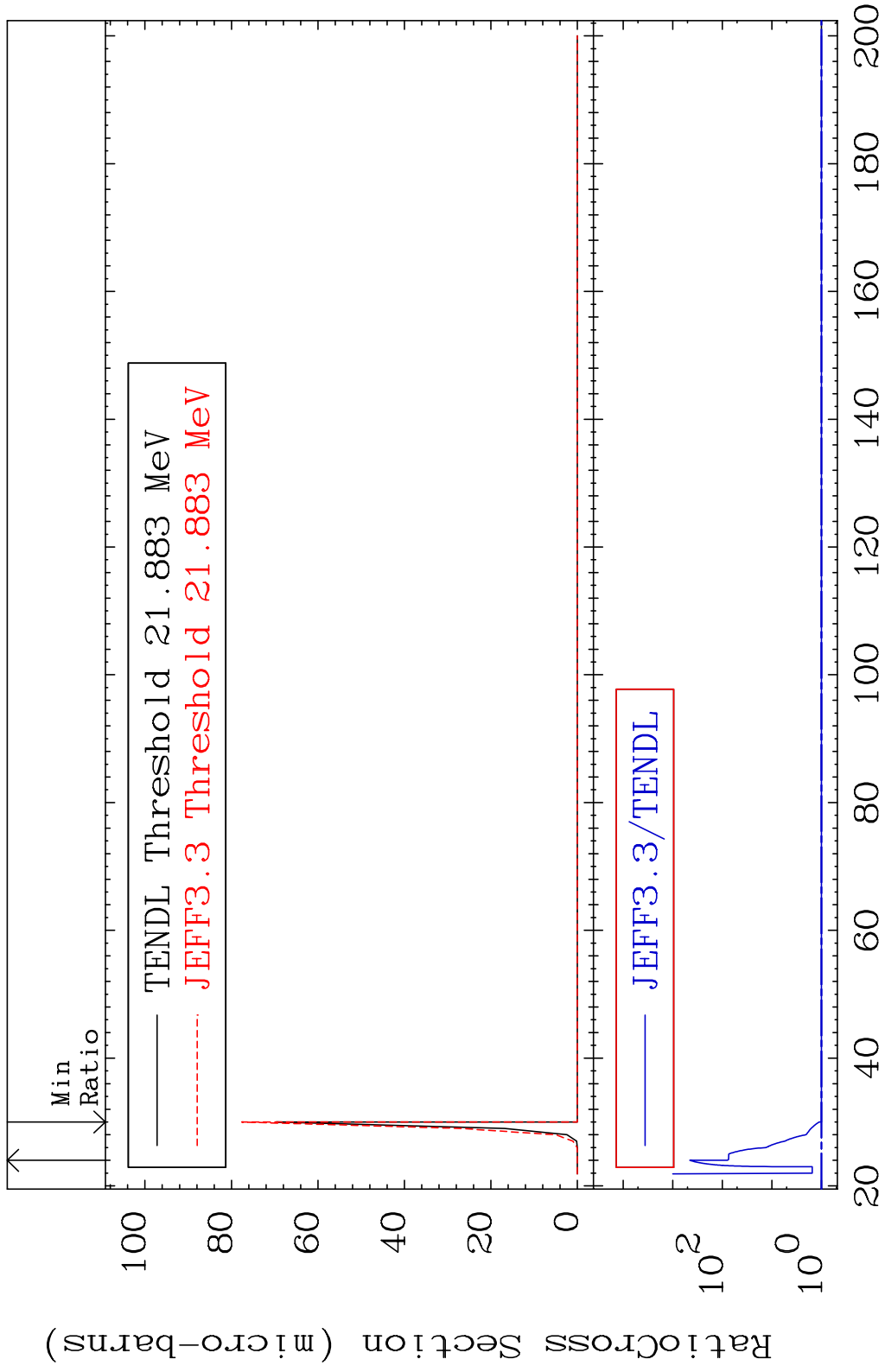
MAT 5259 (n,He-3):50-Sn-129m1 52-Te-131m  
 Radionuclide Production Cross Section to 9999. %



MAT 5259 (n,2n) d:51-Sb-128g 52-Te-131m  
 Radionuclide Production Cross Section to 9999. %

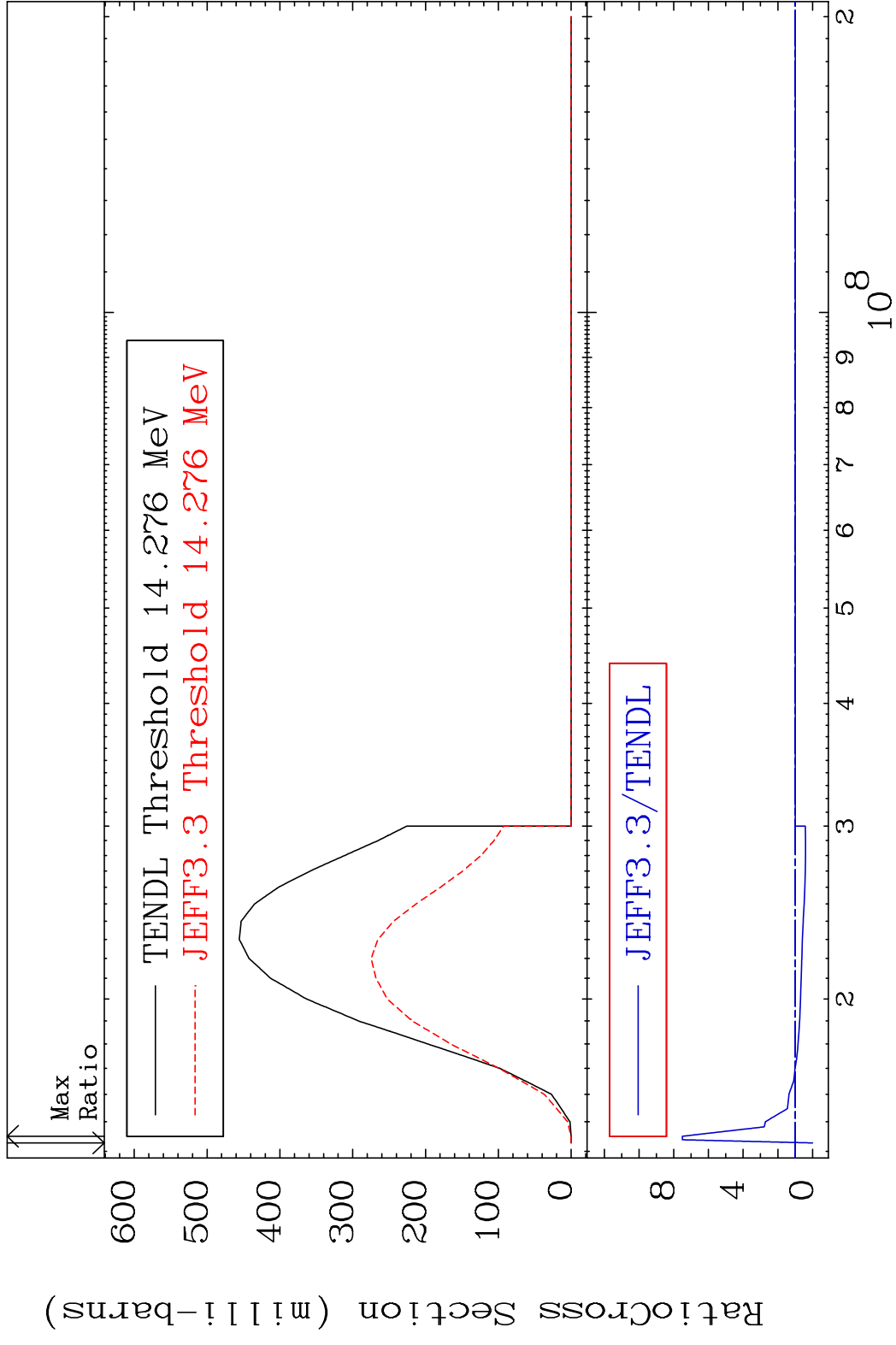


MAT 5259 (n,2n) d:51-Sb-128m1 52-Te-131m  
 Radionuclide Production Cross Section, %

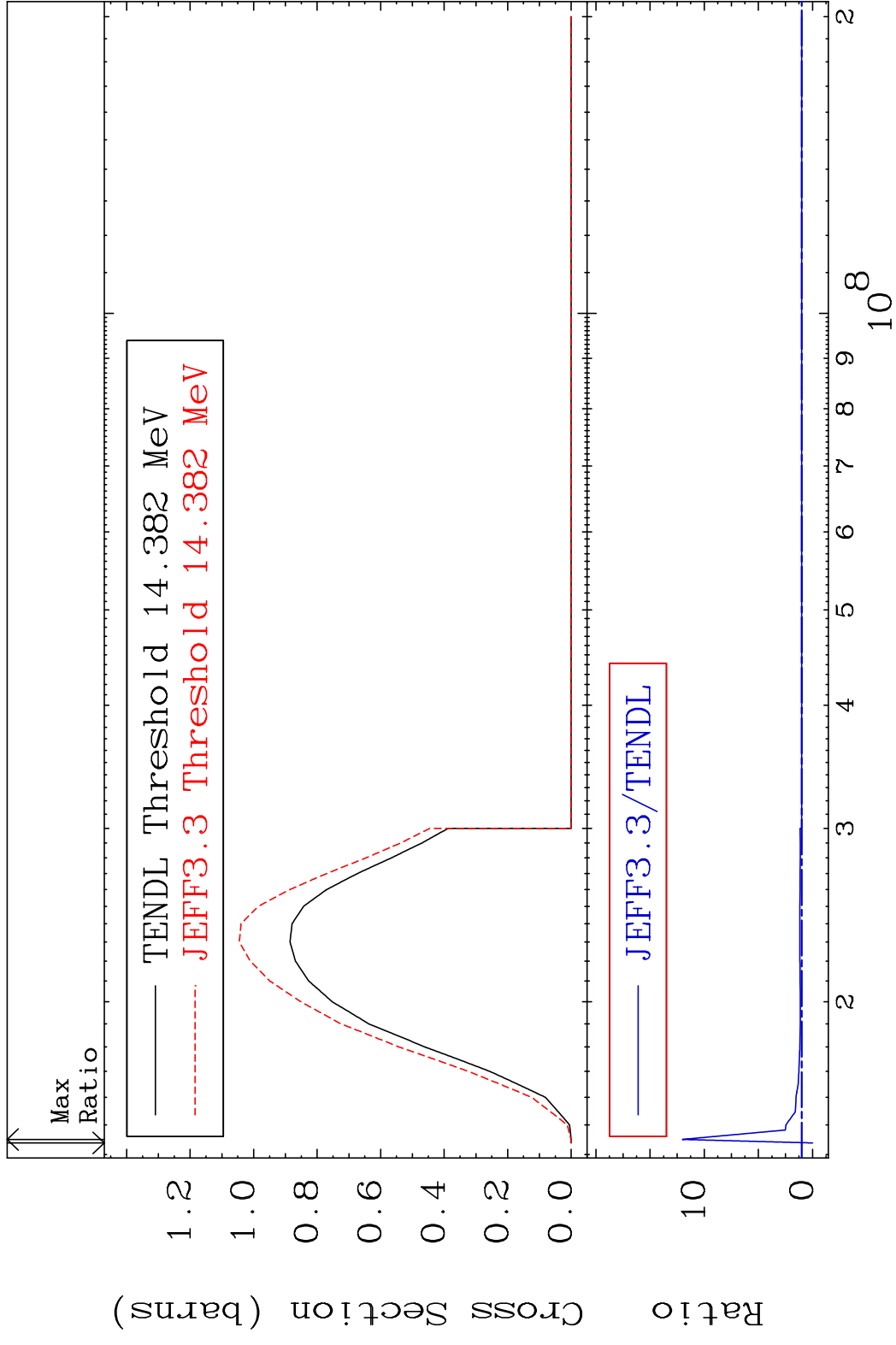


76 Incident Energy (MeV) 52-Te-131m

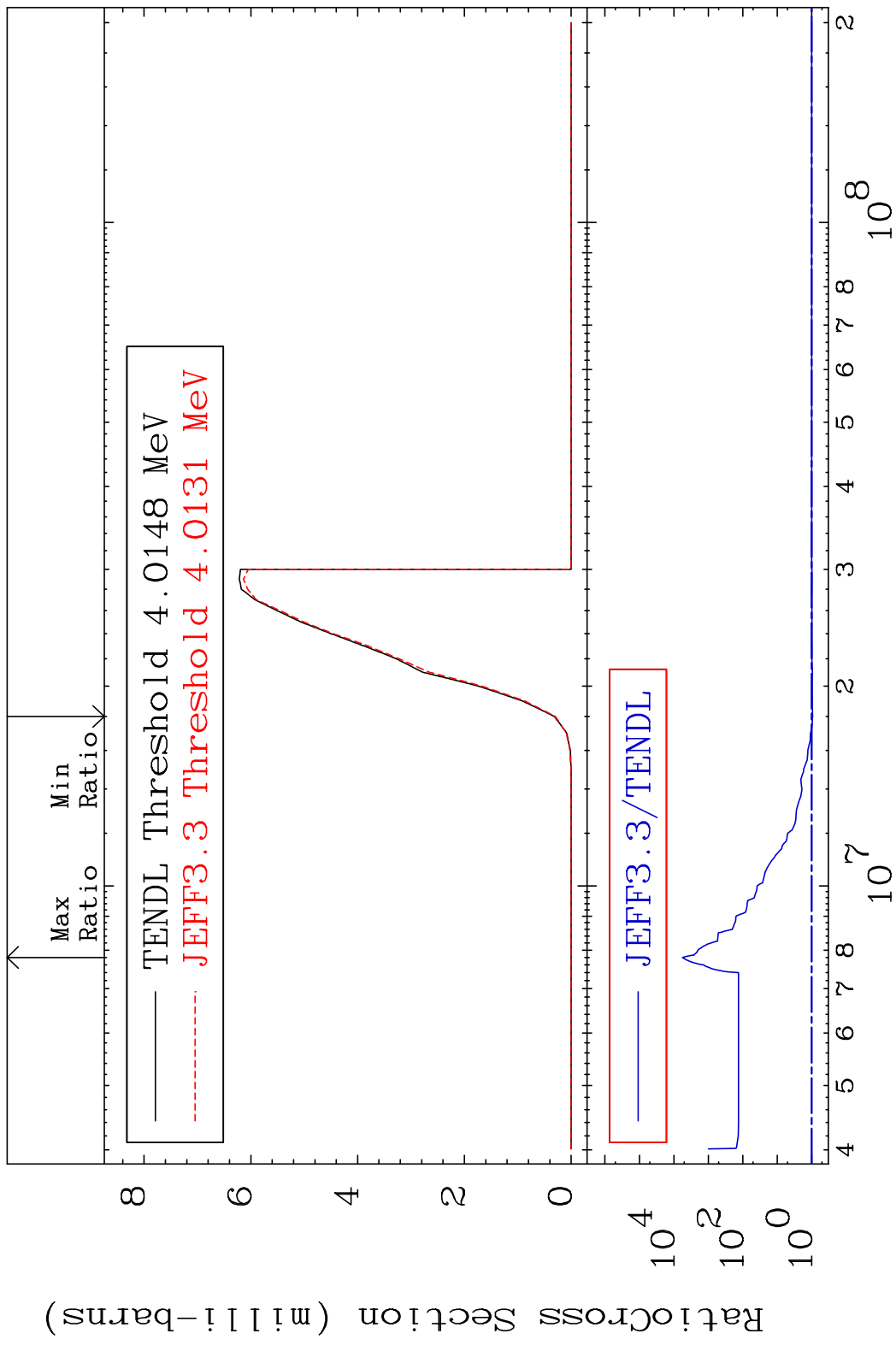
MAT 5259 (n,3n):52-Te-129g 52-Te-131m  
 Radionuclide Production Cross Section 180.01 dth 650.2 %



MAT 5259 (n, 3n):52-Te-129m1 52-Te-131m  
 Radionuclide Production Cross Section to 1102. %

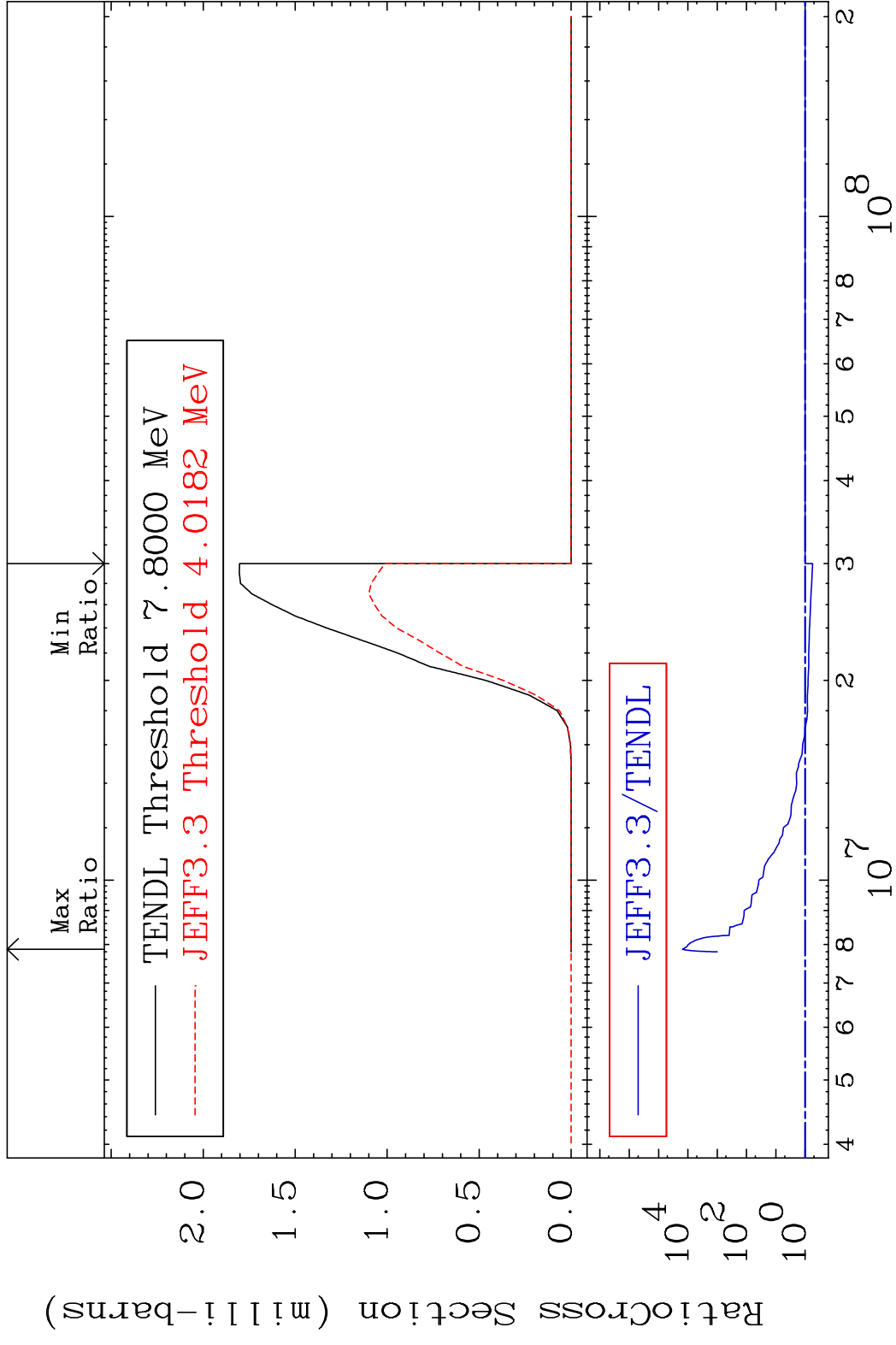


MAT 5259 (n, n')  $\alpha$ :50-Sn-127g 52-Te-131m  
 Radionuclide Production Cross-Section to 9999. %

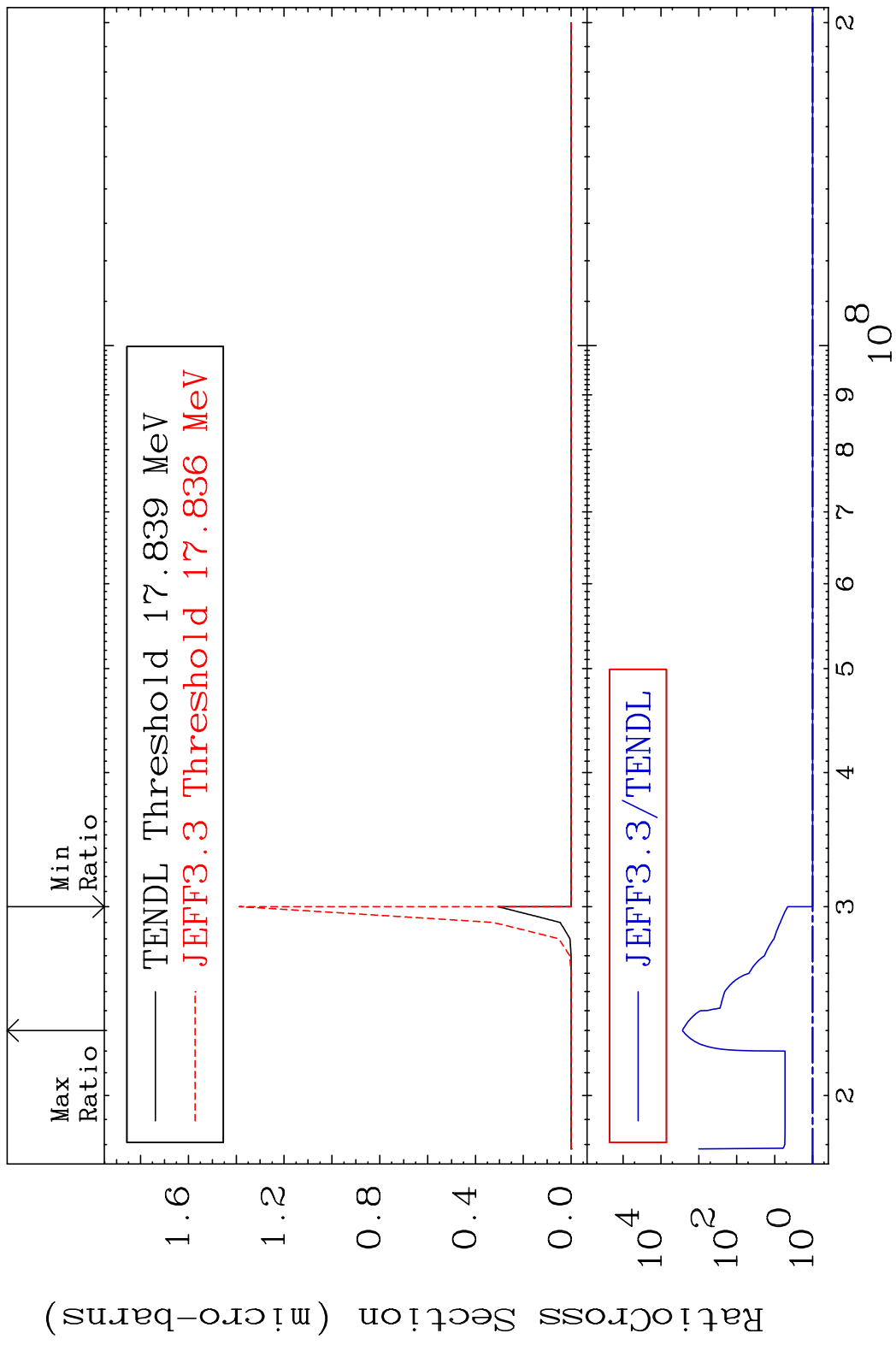




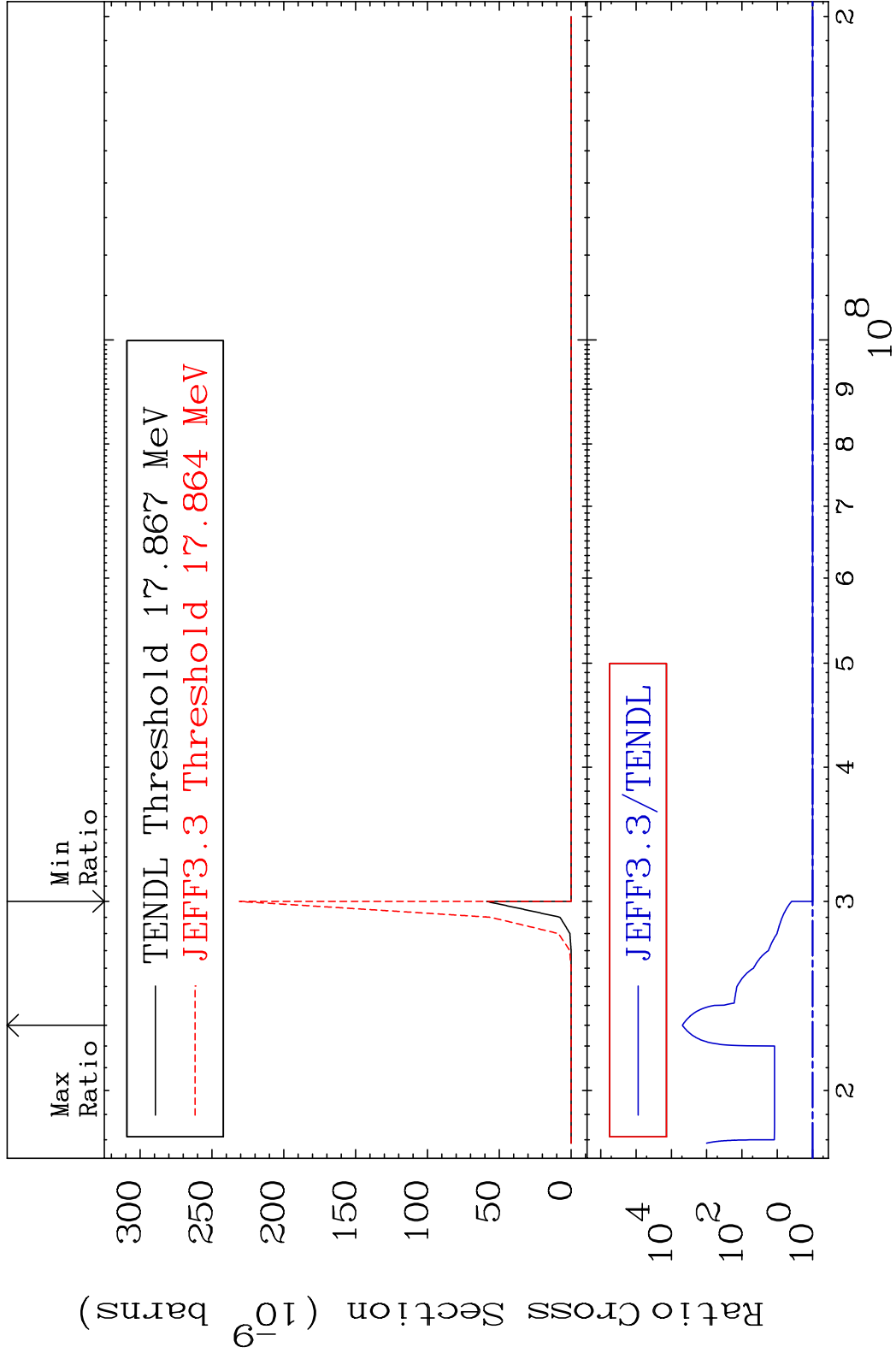
MAT 5259 (n, n')  $\alpha$ :50-Sn-127m1 52-Te-131m  
 Radionuclide Production Cross Section to 9999. %



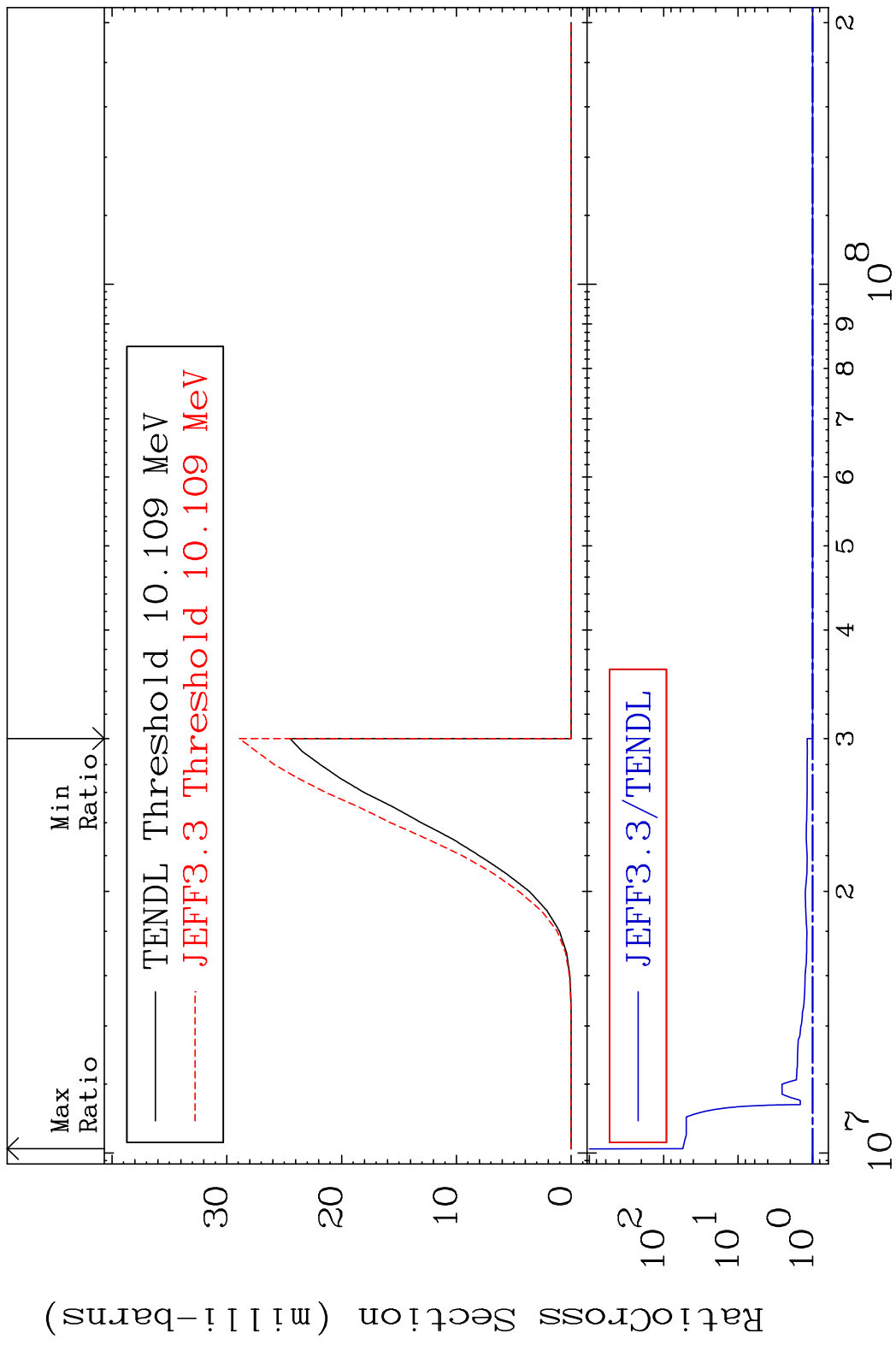
MAT 5259 (n,3n)  $\alpha$ :50-Sn-125g 52-Te-131m  
 Radionuclide Production Cross Section, %  
 9999. %



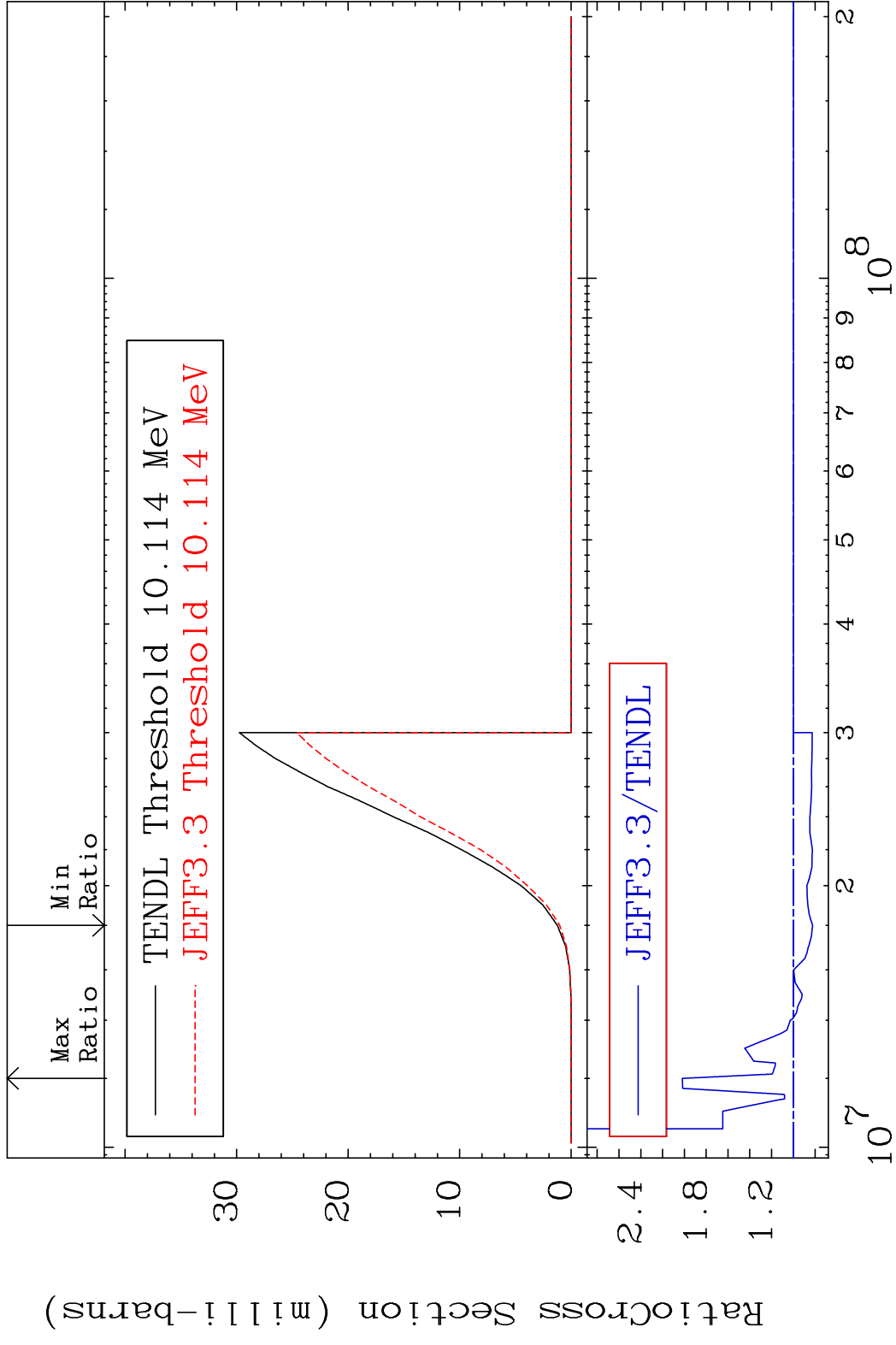
MAT 5259 (n,3n)  $\alpha$ :50-Sn-125m1 52-Te-131m  
 Radionuclide Production Cross Section, %



MAT 5259 (n, n') p:51-Sb-130g 52-Te-131m  
 Radionuclide Production Cross Section 5518. %

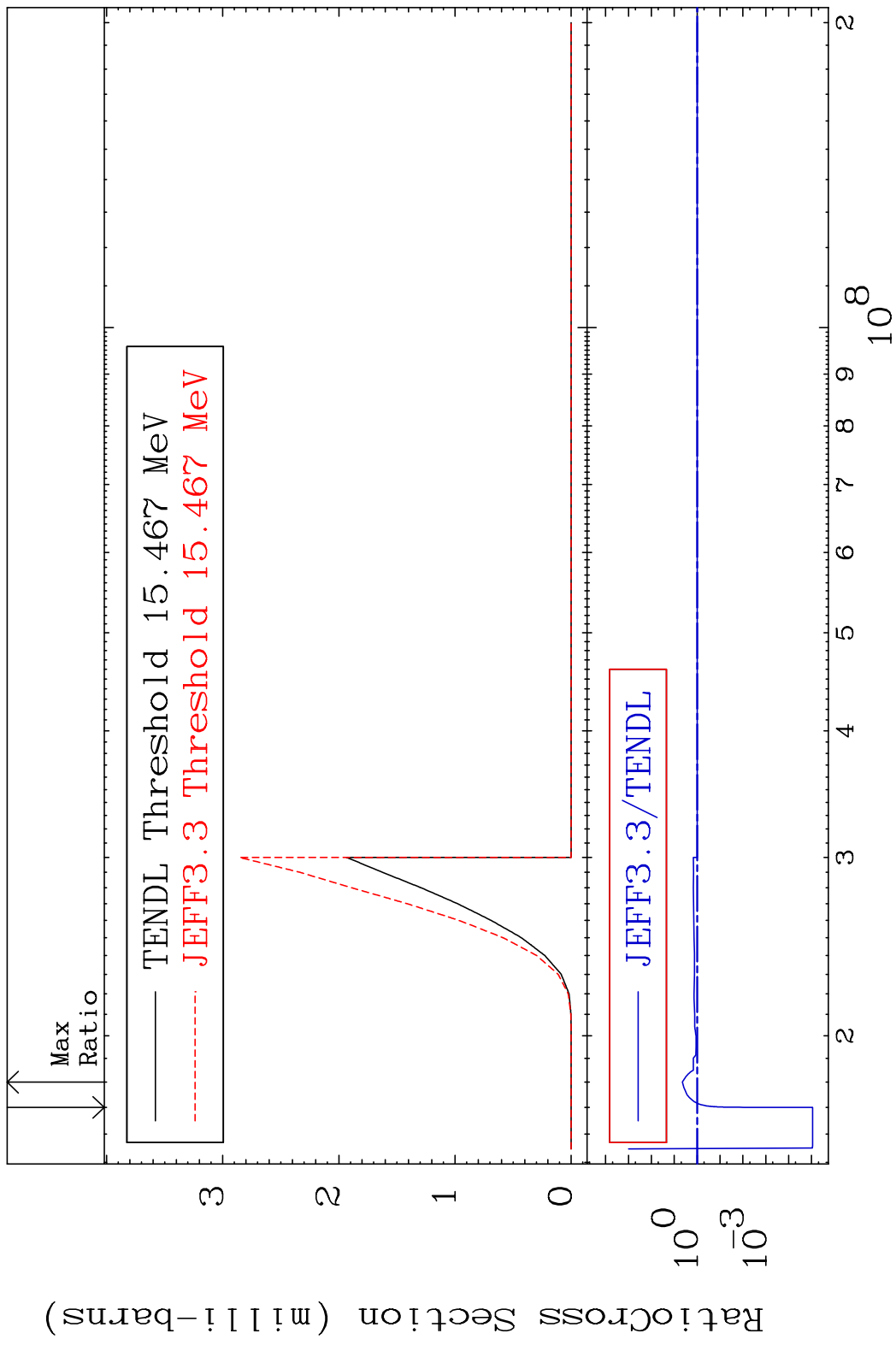


MAT 5259 (n, n') p:51-Sb-130m1 52-Te-131m  
 Radionuclide Production Cross Section 101.9 %

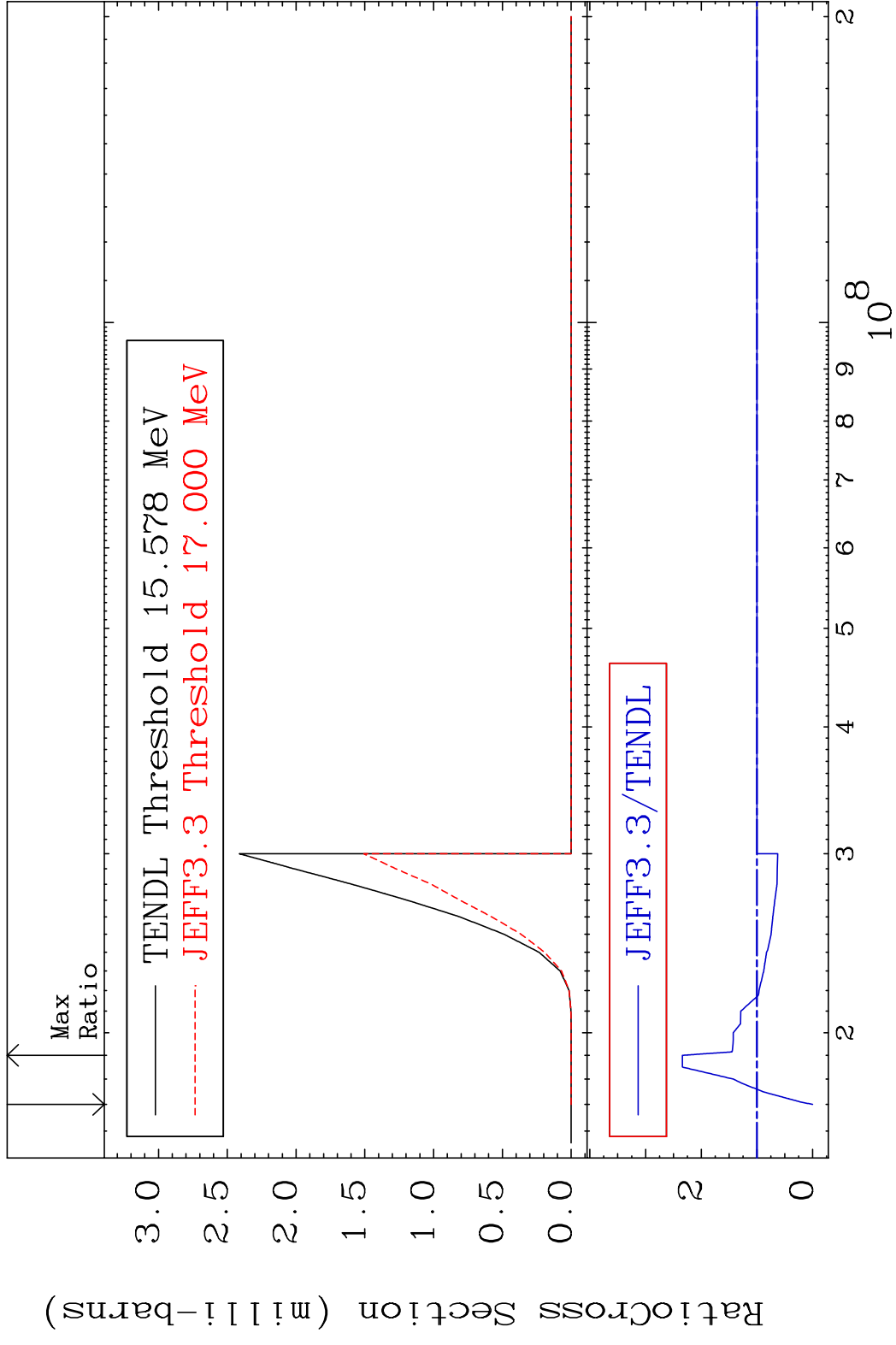


84 Incident Energy (eV) 52-Te-131m

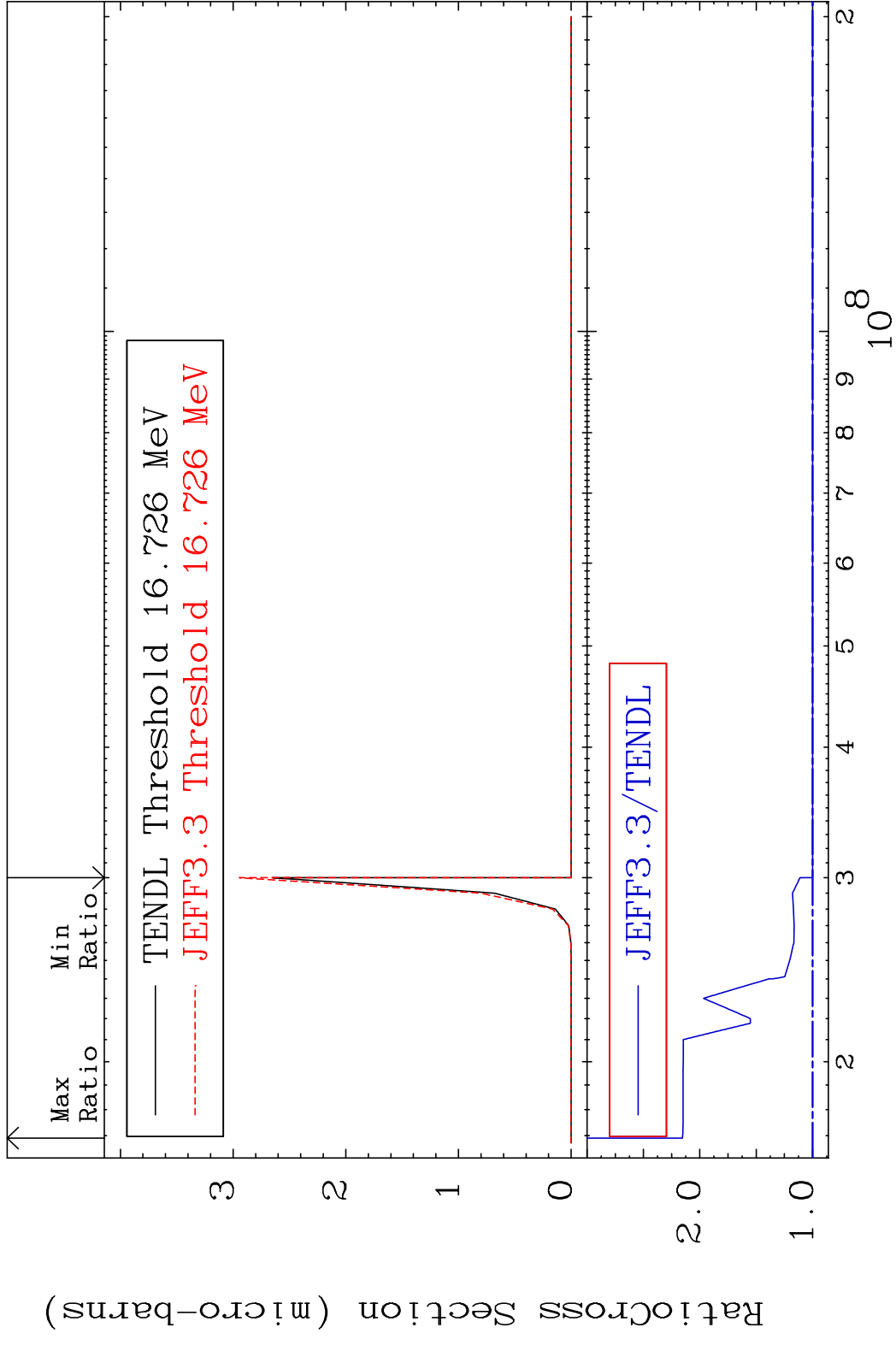
MAT 5259 (n, n') t:51-Sb-128g 52-Te-131m  
 Radionuclide Production Cross Section Ratio 342.9 %



MAT 5259 (n, n') t:51-Sb-128m1 52-Te-131m  
 Radionuclide Production Cross Section 133.9 %

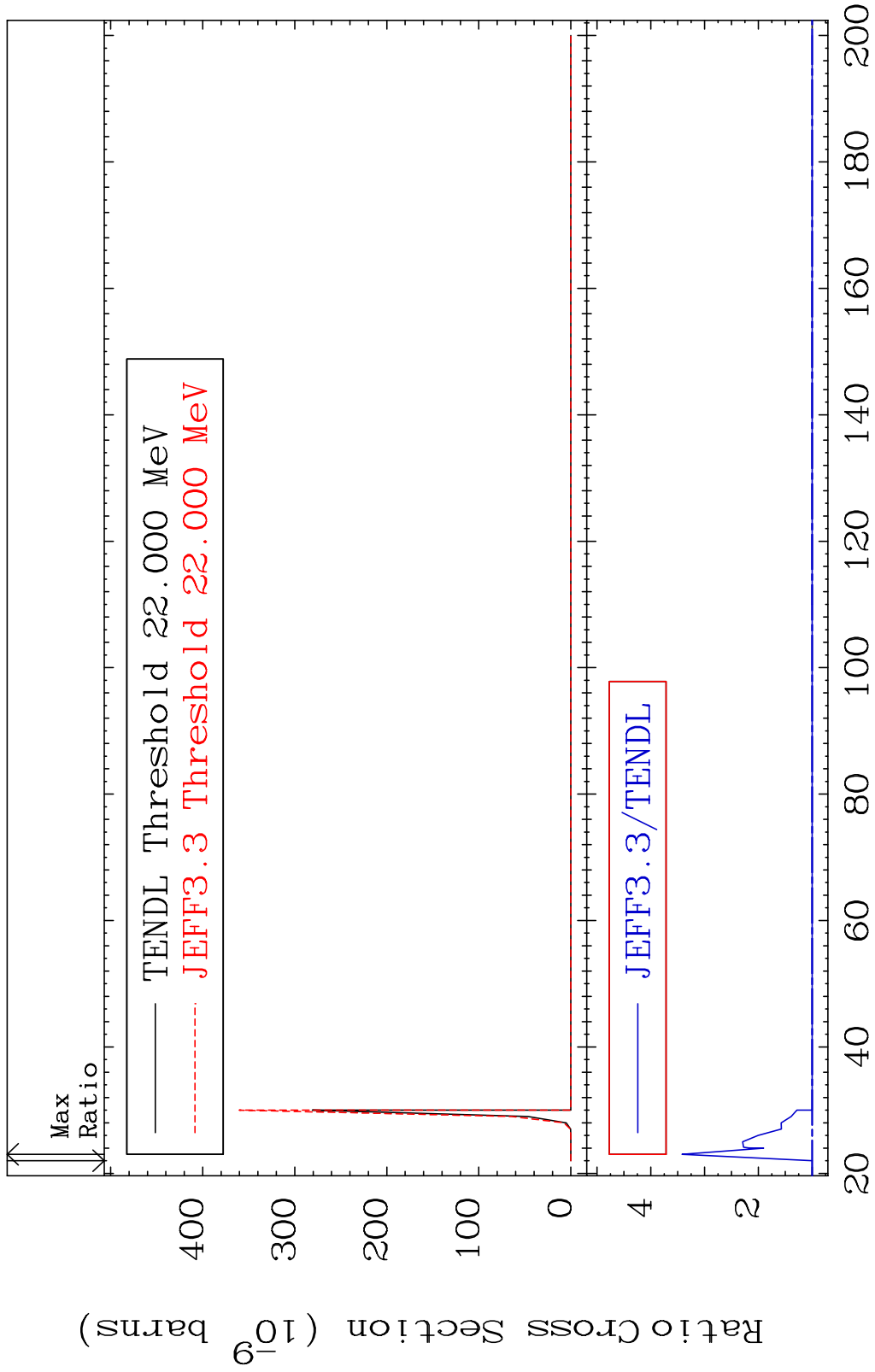


MAT 5259 (n, n') He-3:50-Sn-128g 52-Te-131m  
 Radionuclide Production Cross Section 115.5 %



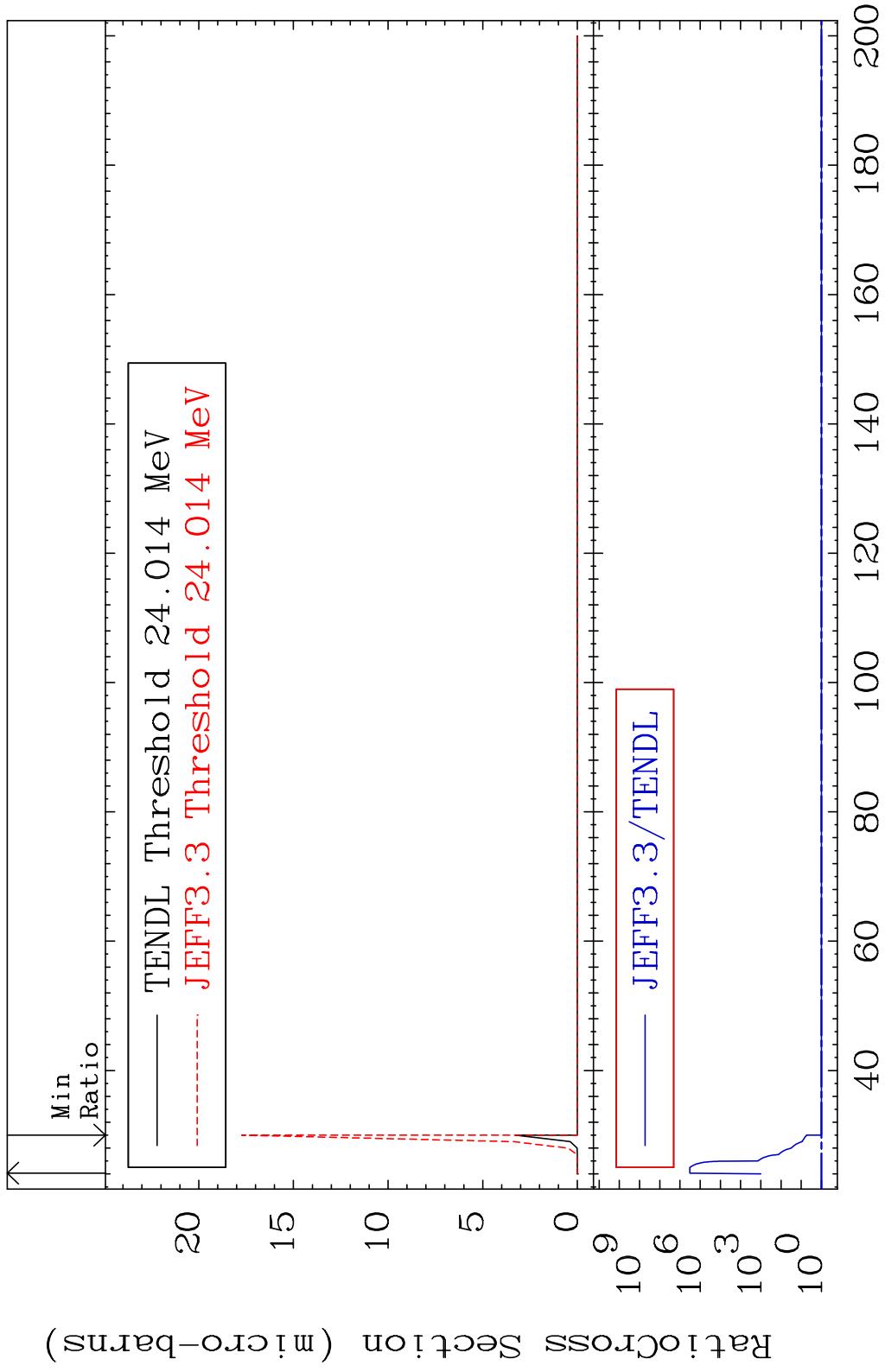


MAT 5259 (n, n') He-3:50-Sn-128m3 52-Te-131m  
 Radionuclide Production Cross Section 242.0 %



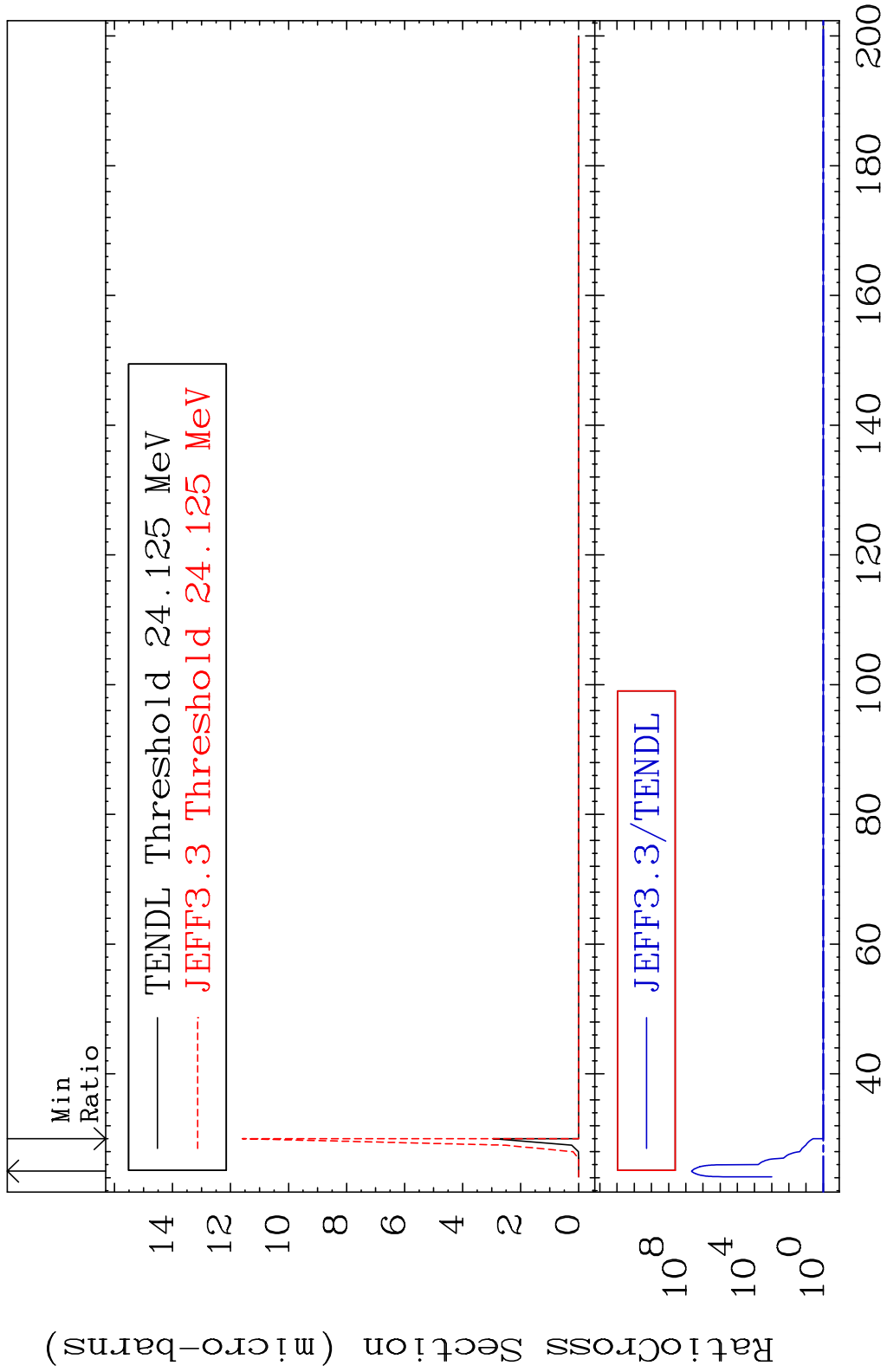
88 Incident Energy (MeV) 52-Te-131m

MAT 5259 (n,3n) p:51-Sb-128g 52-Te-131m  
 Radionuclide Production Cross Section, % Valid 9999. %



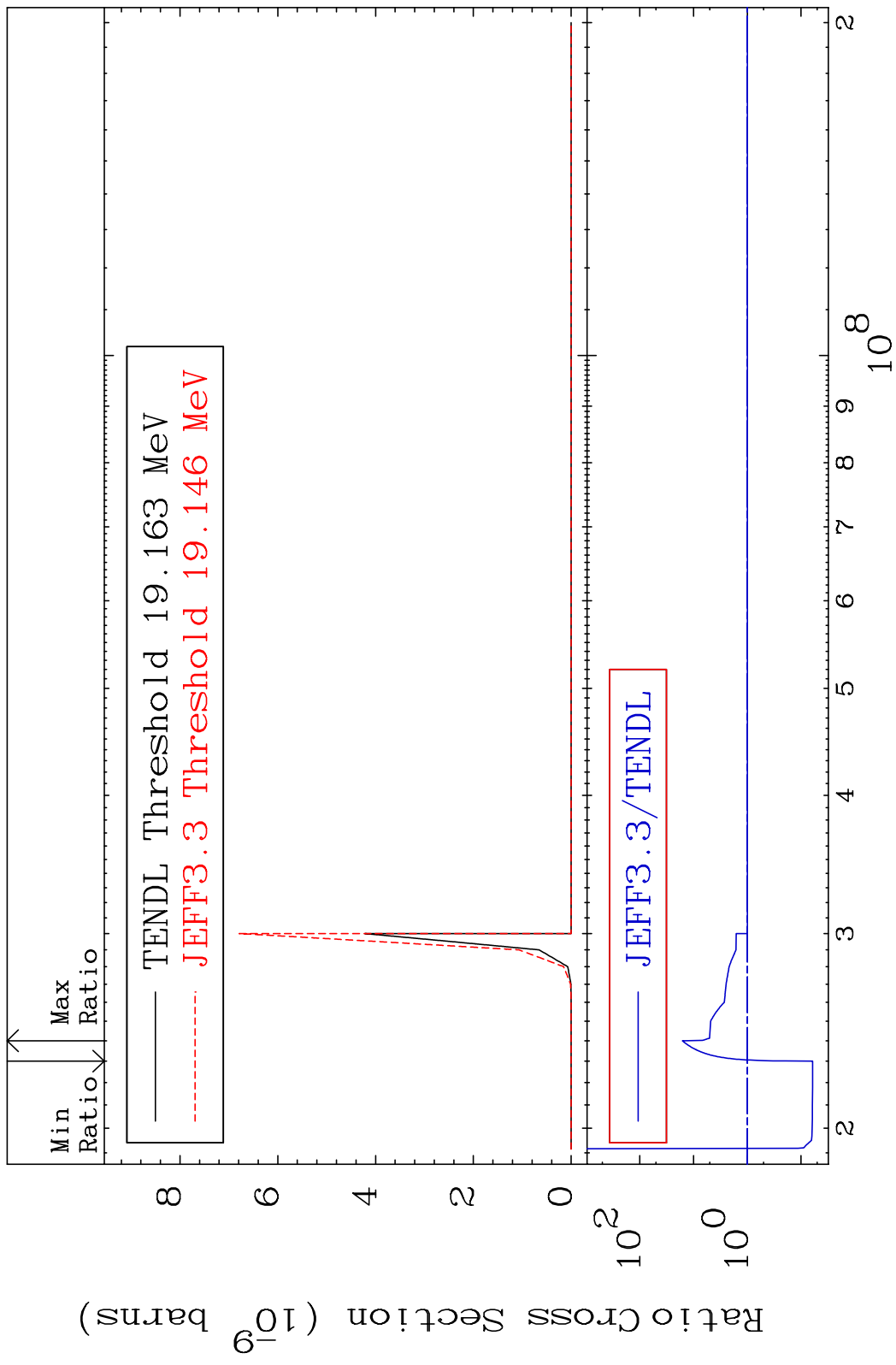
89 Incident Energy (MeV) 52-Te-131m

MAT 5259 (n,3n) p:51-Sb-128m1 52-Te-131m  
 Radionuclide Production Cross Section, %

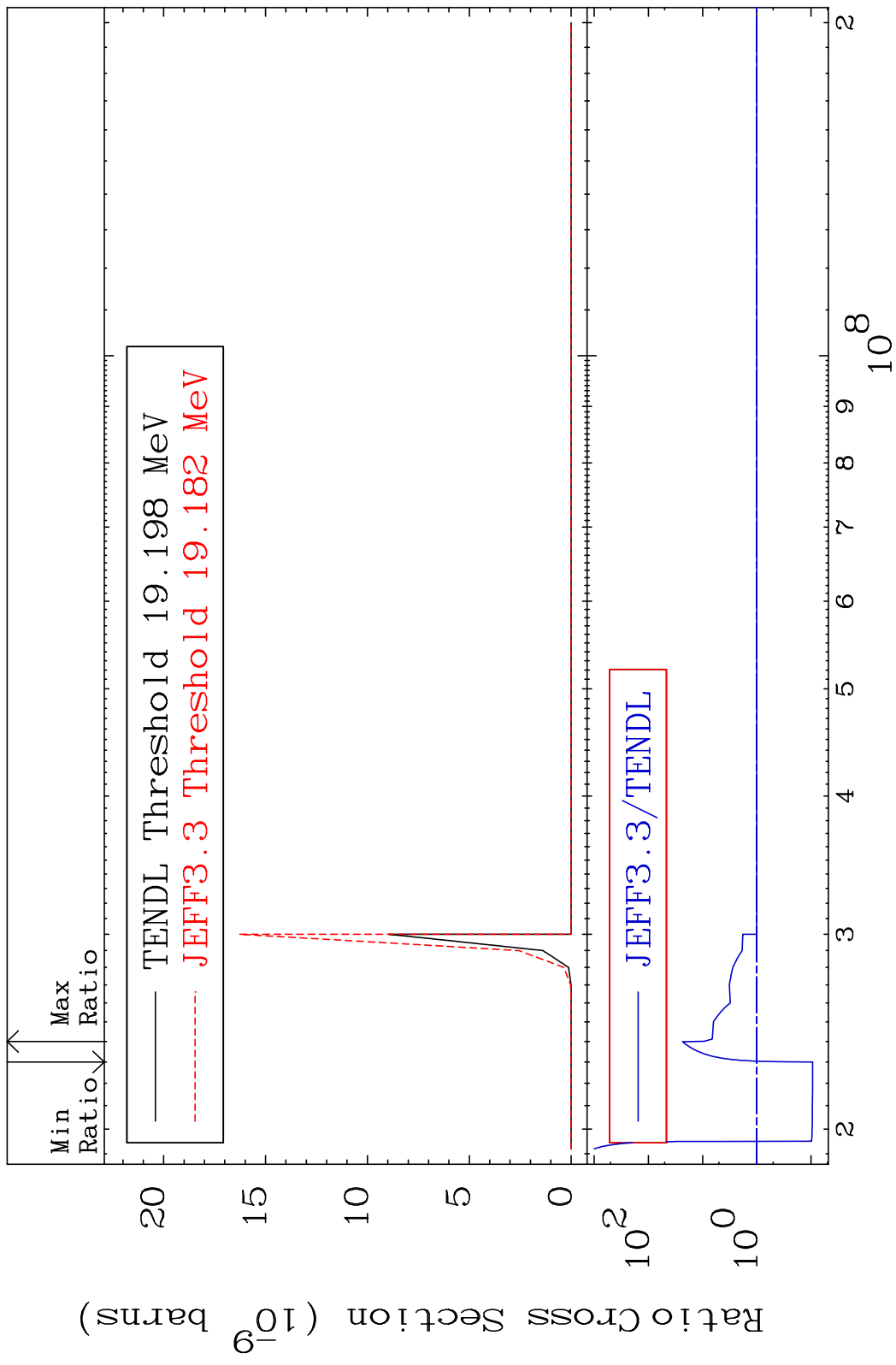


90 Incident Energy (MeV) 52-Te-131m

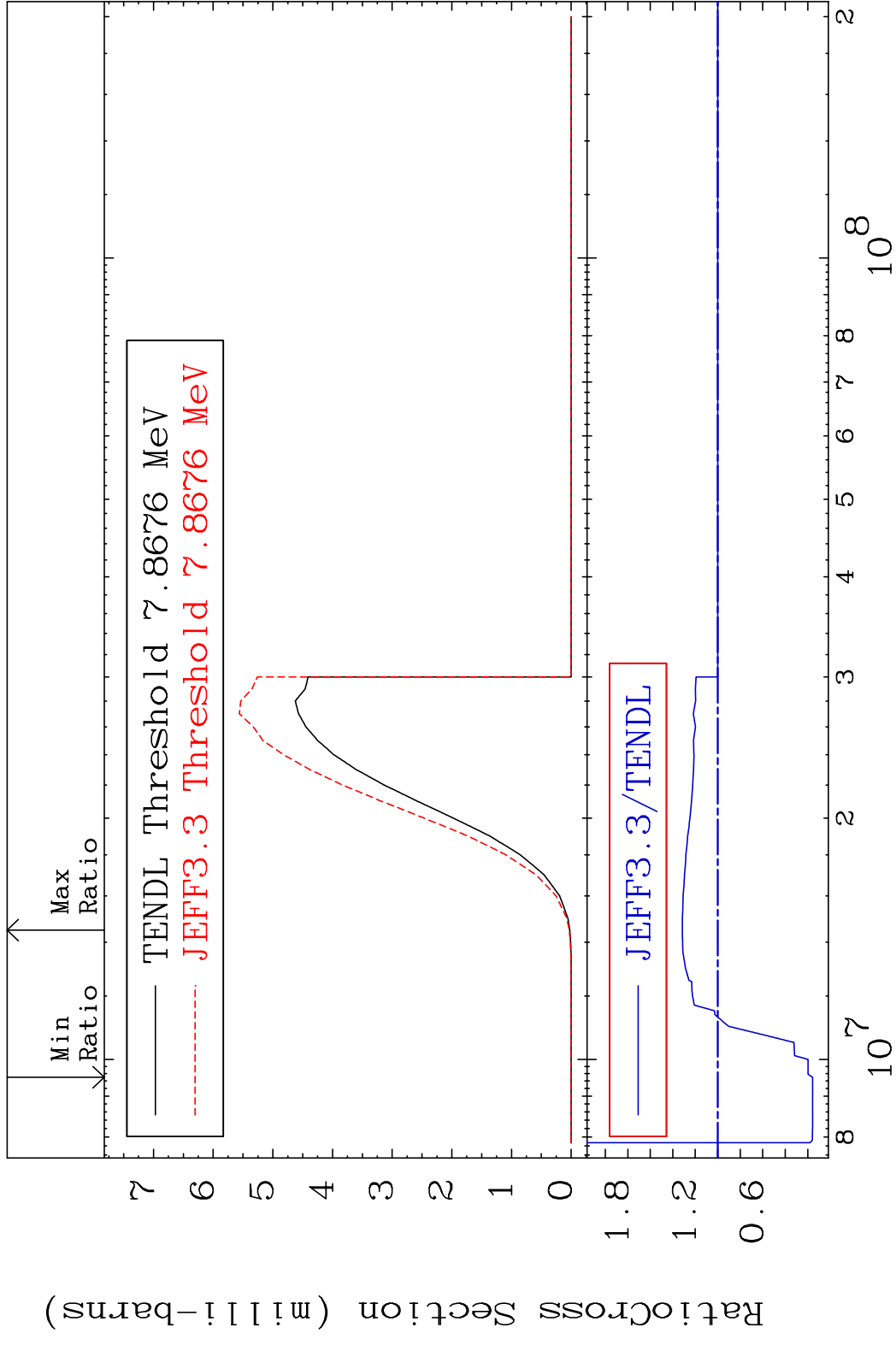
MAT 5259 (n,2n) p:50-Sn-129g 52-Te-131m  
 Radionuclide Production Cross Section 98.681 dth 1518. %



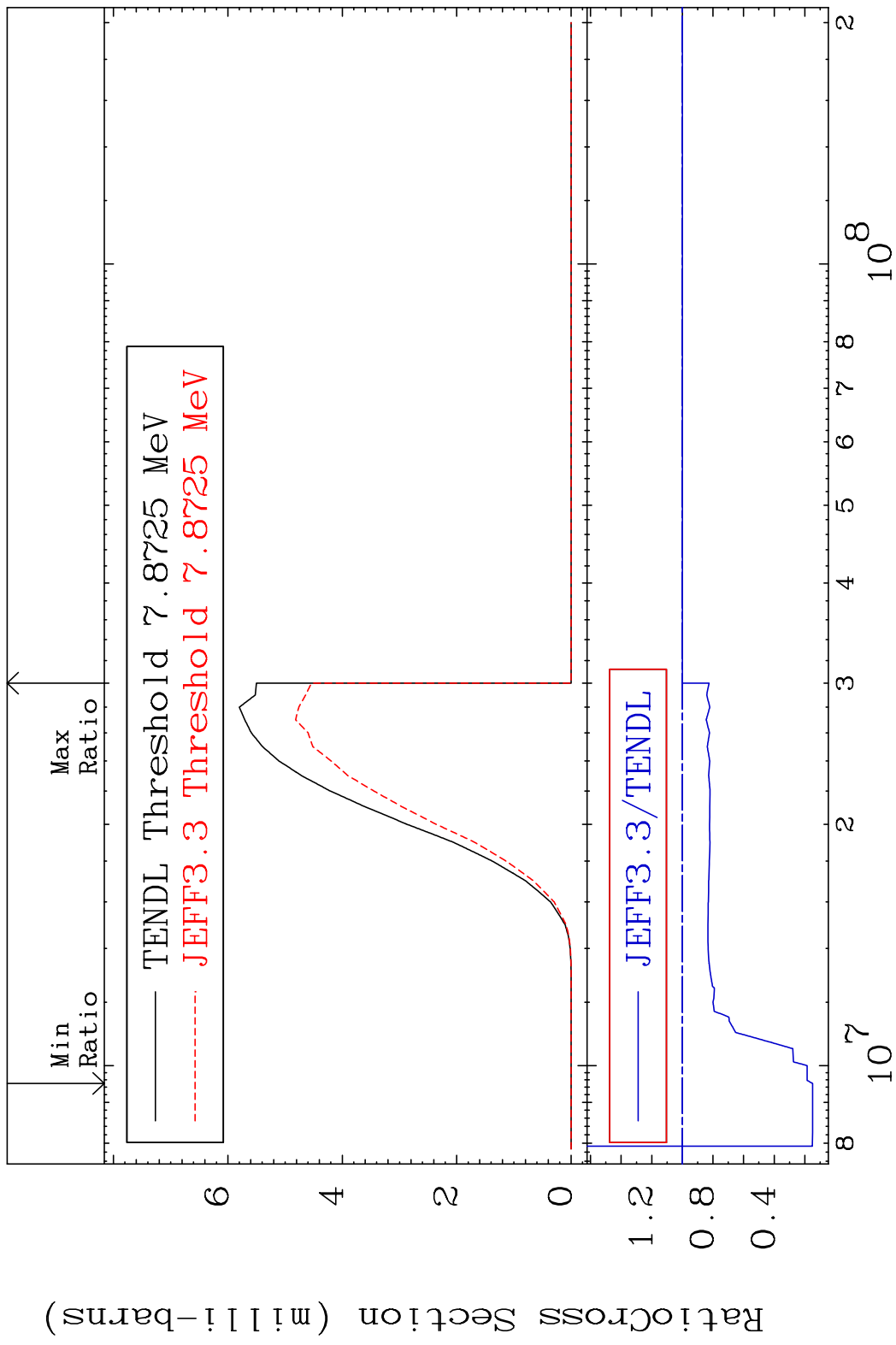
MAT 5259 (n,2n) p:50-Sn-129m1 52-Te-131m  
 Radionuclide Production Cross Section to End of 2261. %



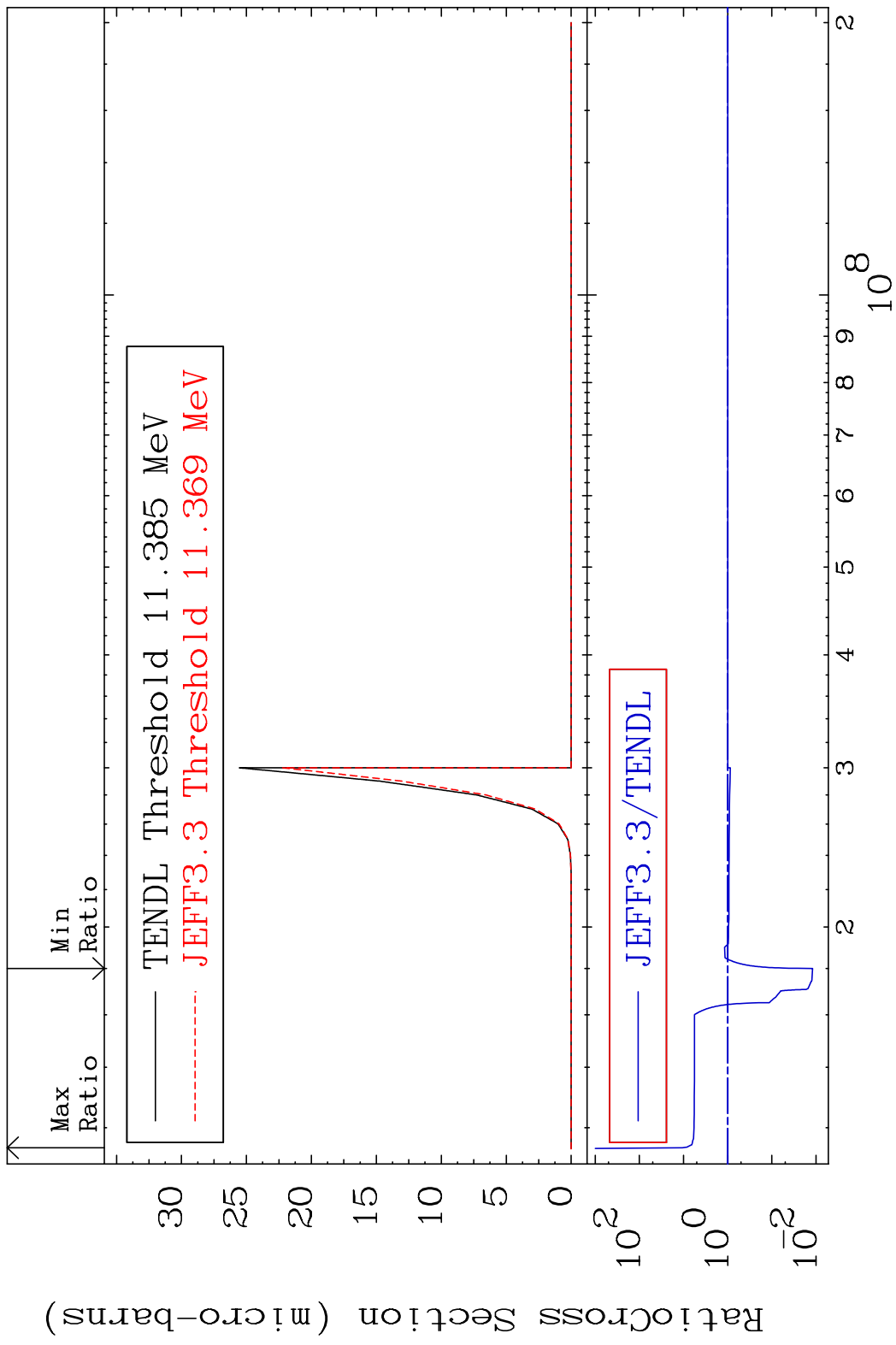
MAT 5259 (n,d):51-Sb-130g 52-Te-131m  
 Radionuclide Production Cross Section 31.47 %



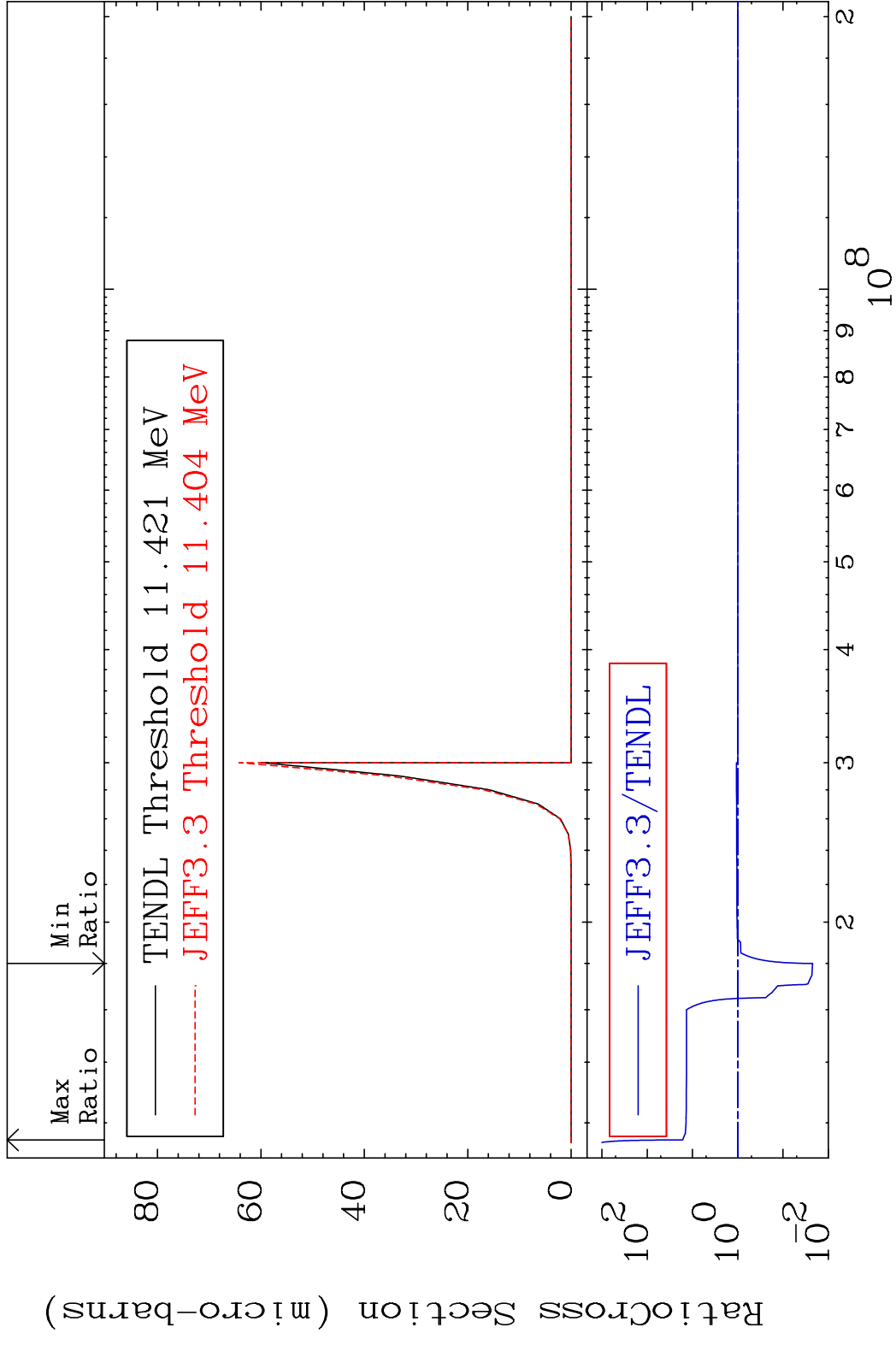
MAT 5259 (n,d):51-Sb-130m1 52-Te-131m  
 Radionuclide Production Cross Section 0.000 %



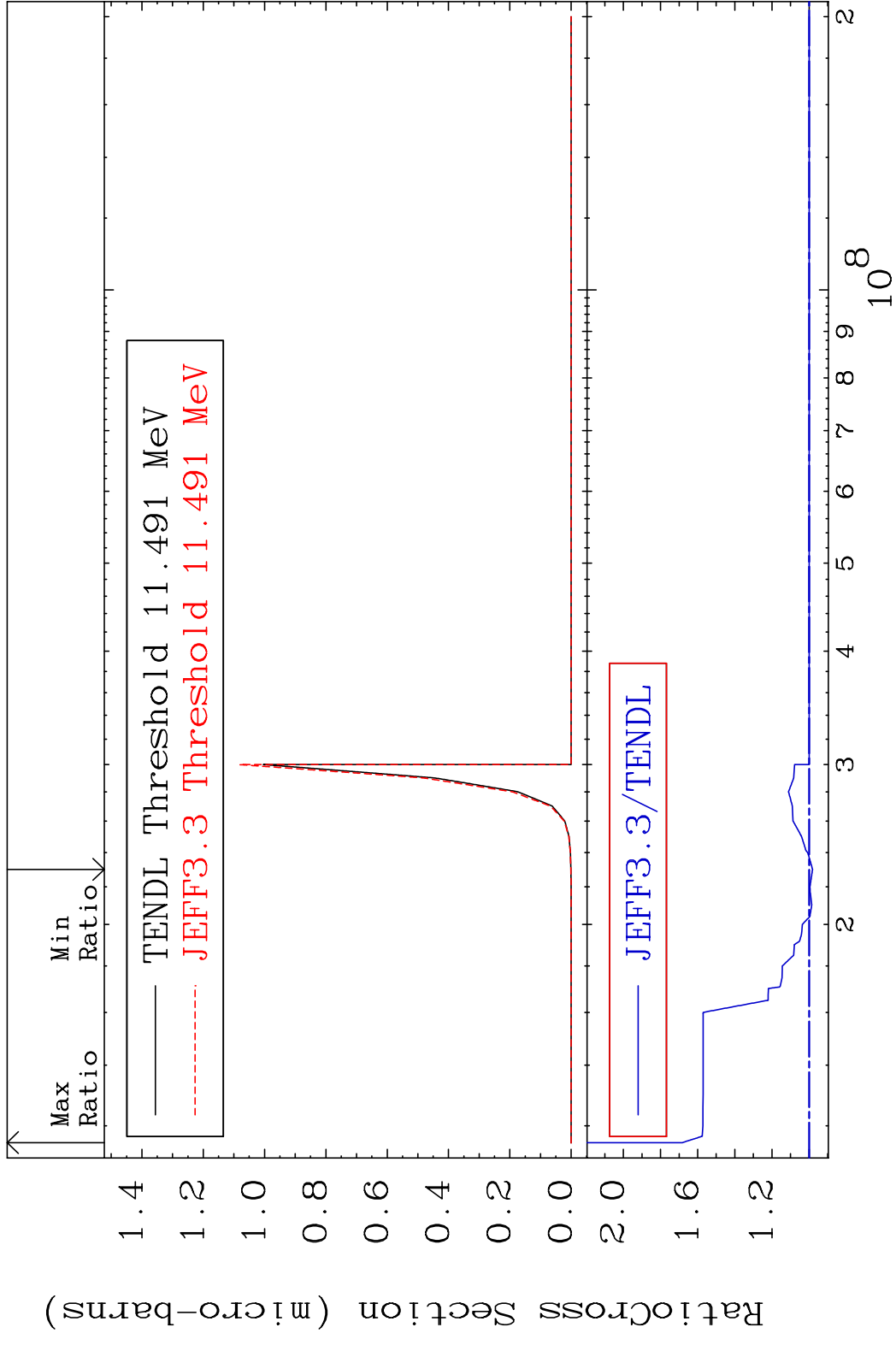
MAT 5259 (n, He-3):50-Sn-129g 52-Te-131m  
 Radionuclide Production Cross Section 98.601 d to 962.5 %



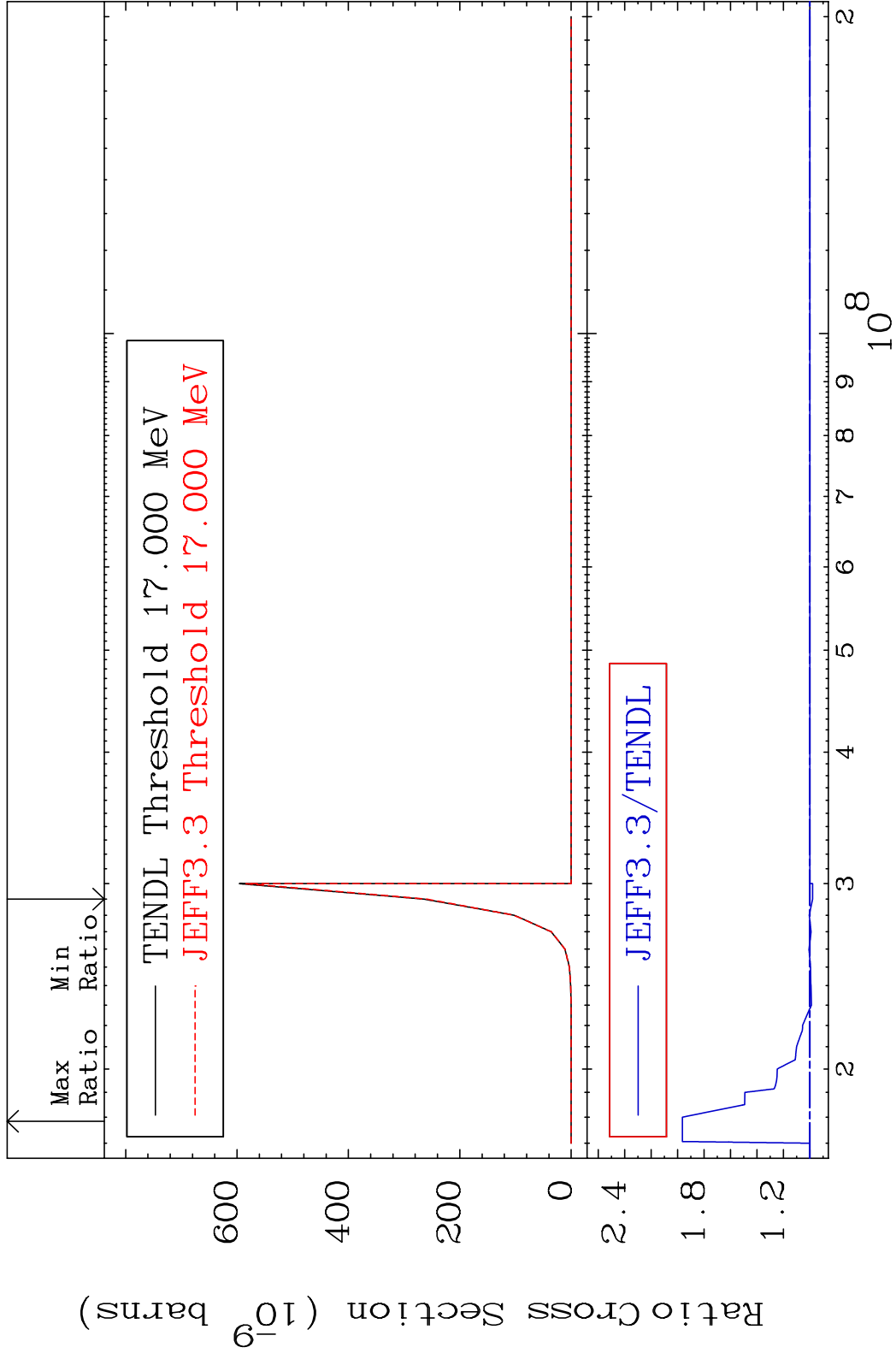




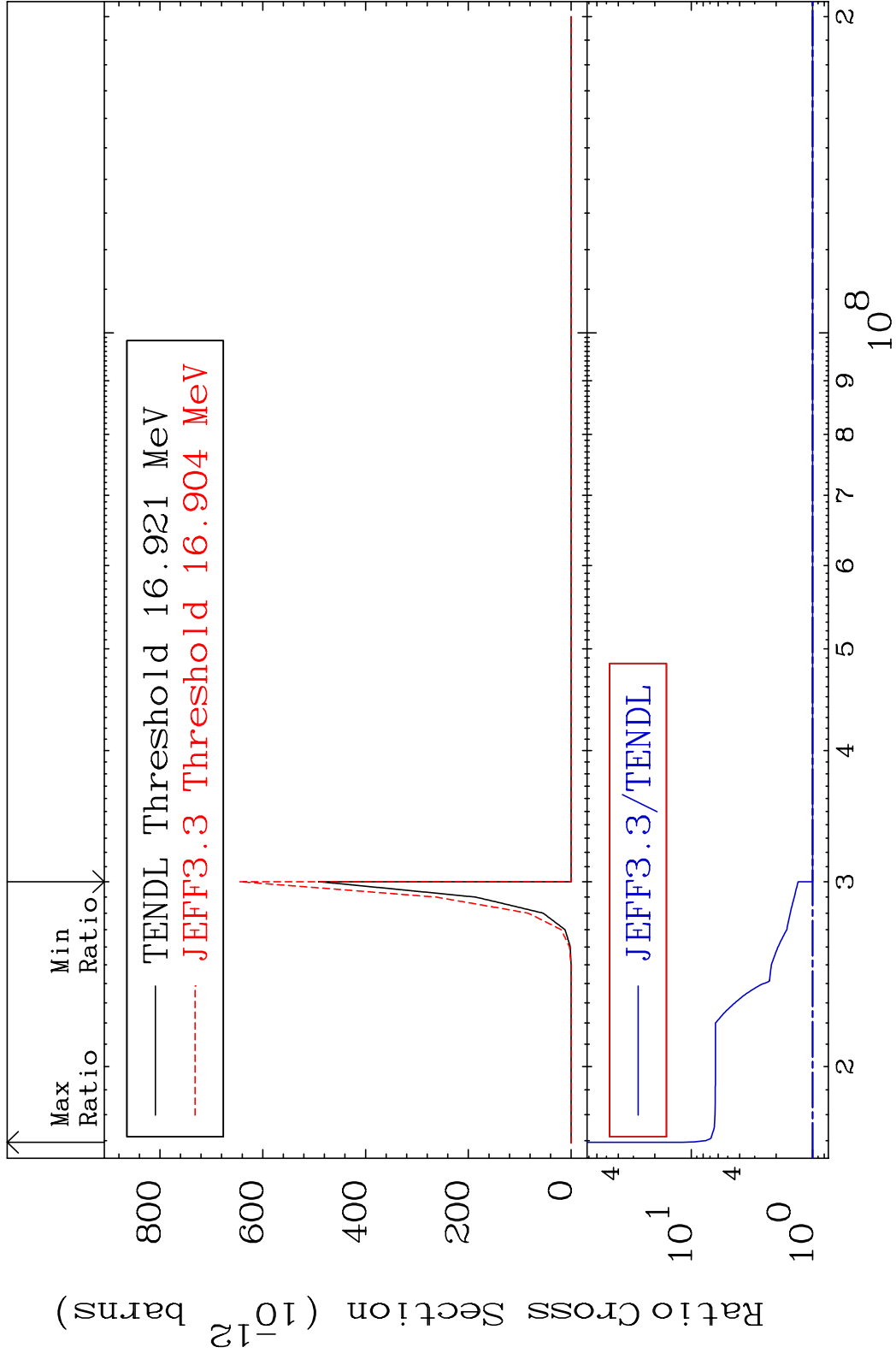
MAT 5259 (n,2p):50-Sn-130g 52-Te-131m  
 Radionuclide Production Cross Section 68.24 %



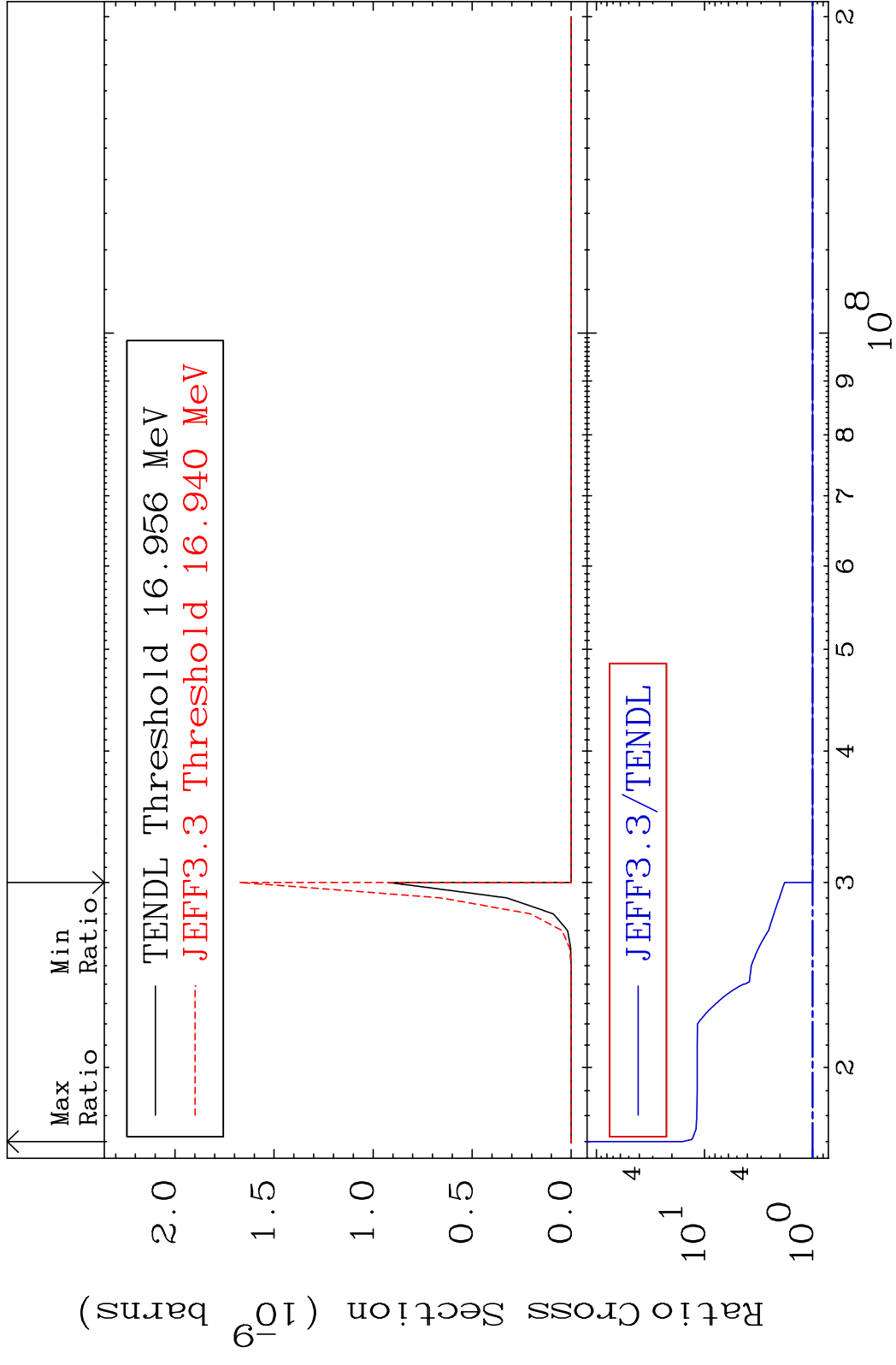
MAT 5259 (n,2p):50-Sn-130m2 52-Te-131m  
 Radionuclide Production Cross Section to 96.46 %



MAT 5259 (n,p) d:50-Sn-129g 52-Te-131m  
 Radionuclide Production Cross Section 1085. %

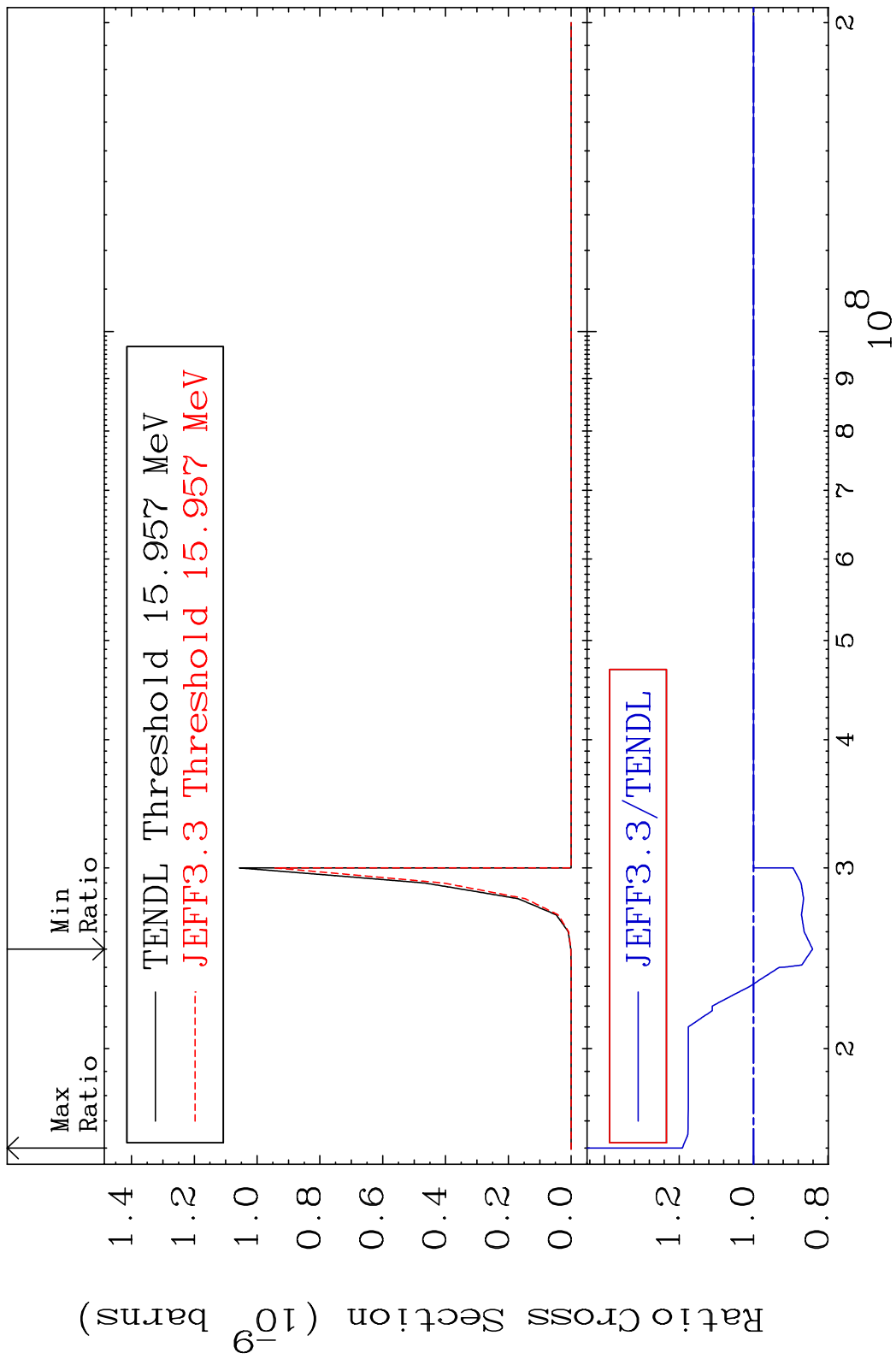


MAT 5259 (n, p) d:50-Sn-129m1 52-Te-131m  
 Radionuclide Production Cross Section 1500. %

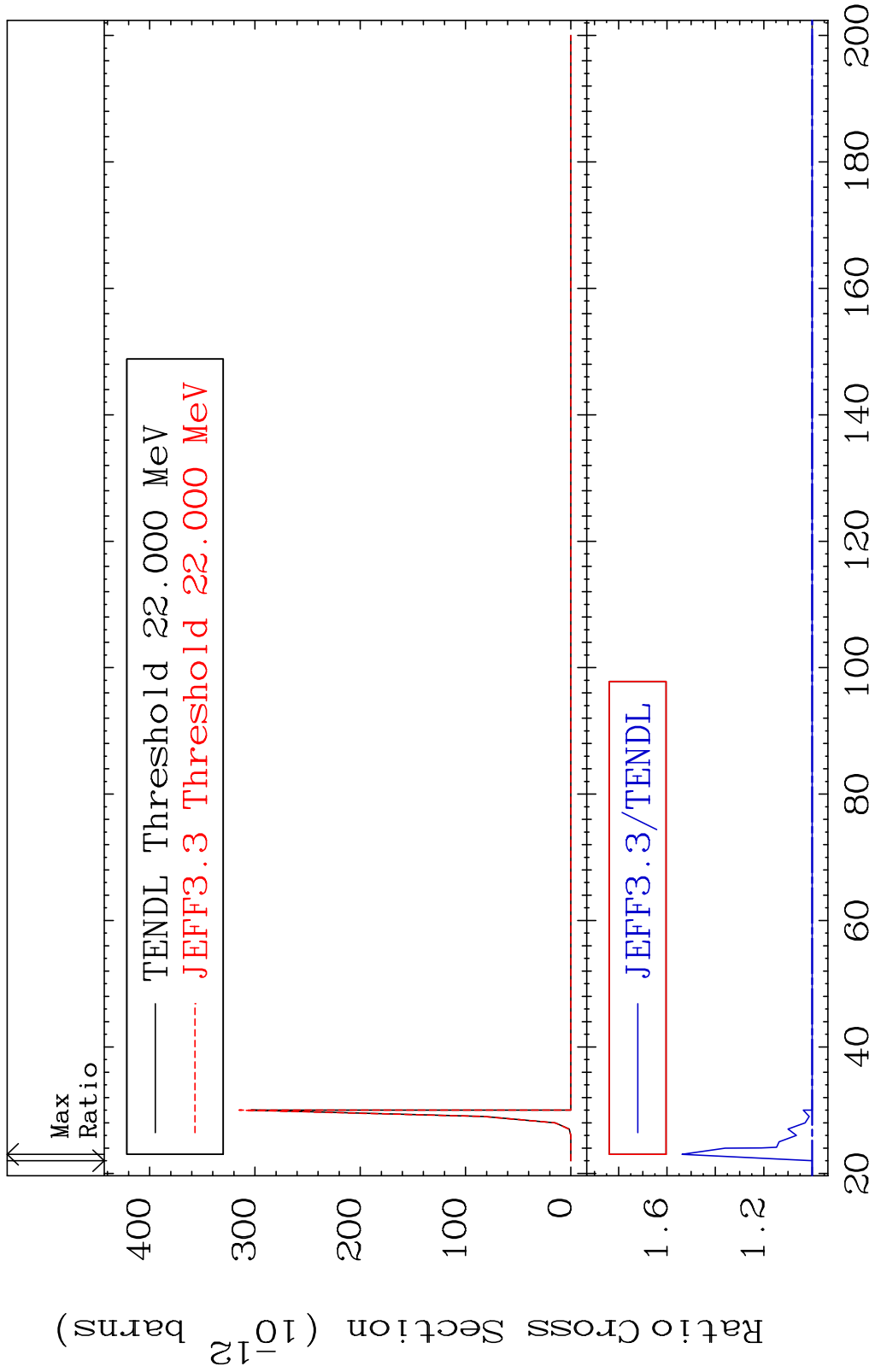


100 Incident Energy (eV) 52-Te-131m

MAT 5259 (n,p) t:50-Sn-128g 52-Te-131m  
 Radionuclide Production Cross Section 19.12 %



MAT 5259 (n,p) t:50-Sn-128m3 52-Te-131m  
 Radionuclide Production Cross Section 53.82 %



102 Incident Energy (MeV) 52-Te-131m