

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

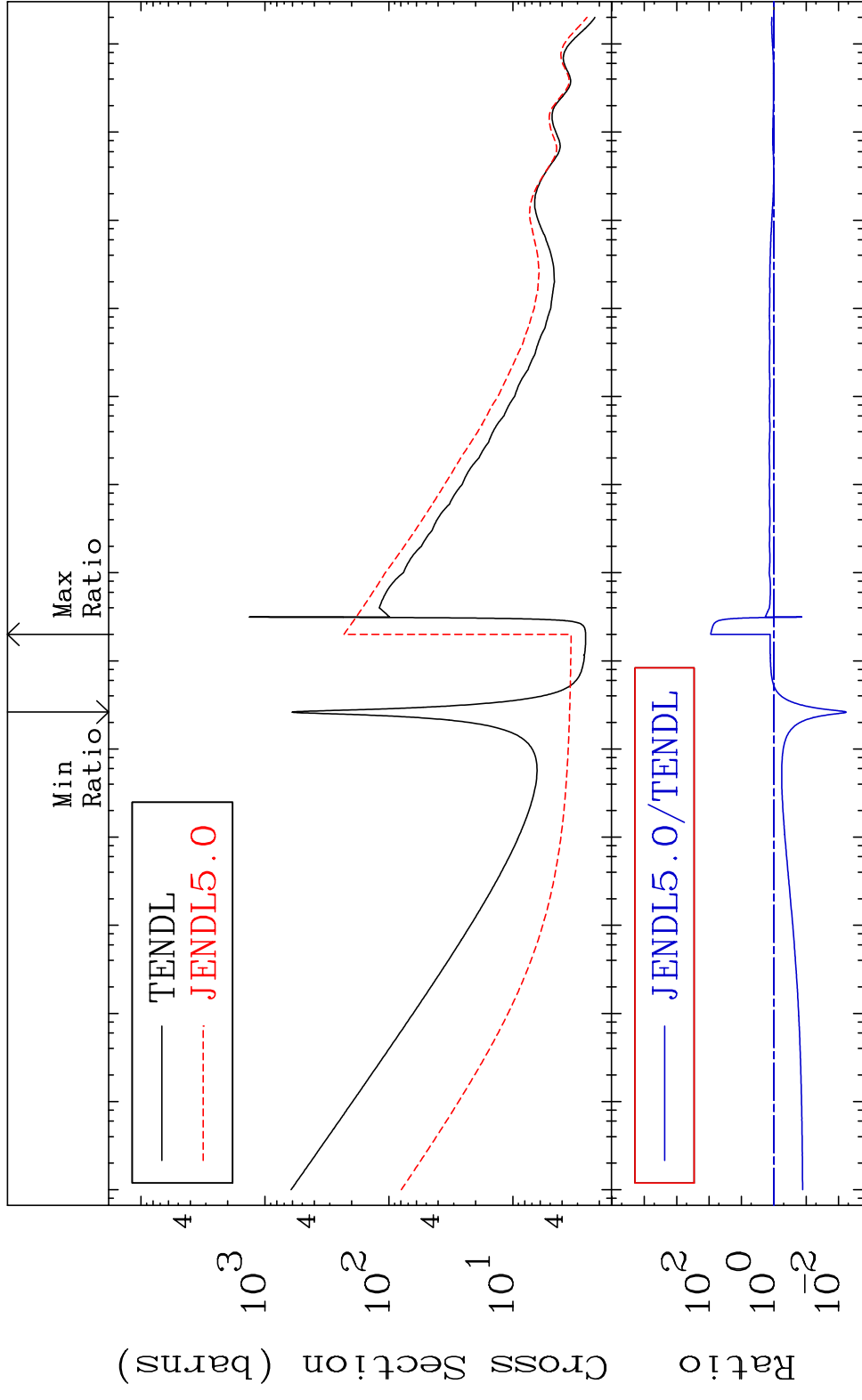
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5641

Total Cross Section

56-Ba-135m -99.42 To 8817. %



1

Incident Energy (eV)

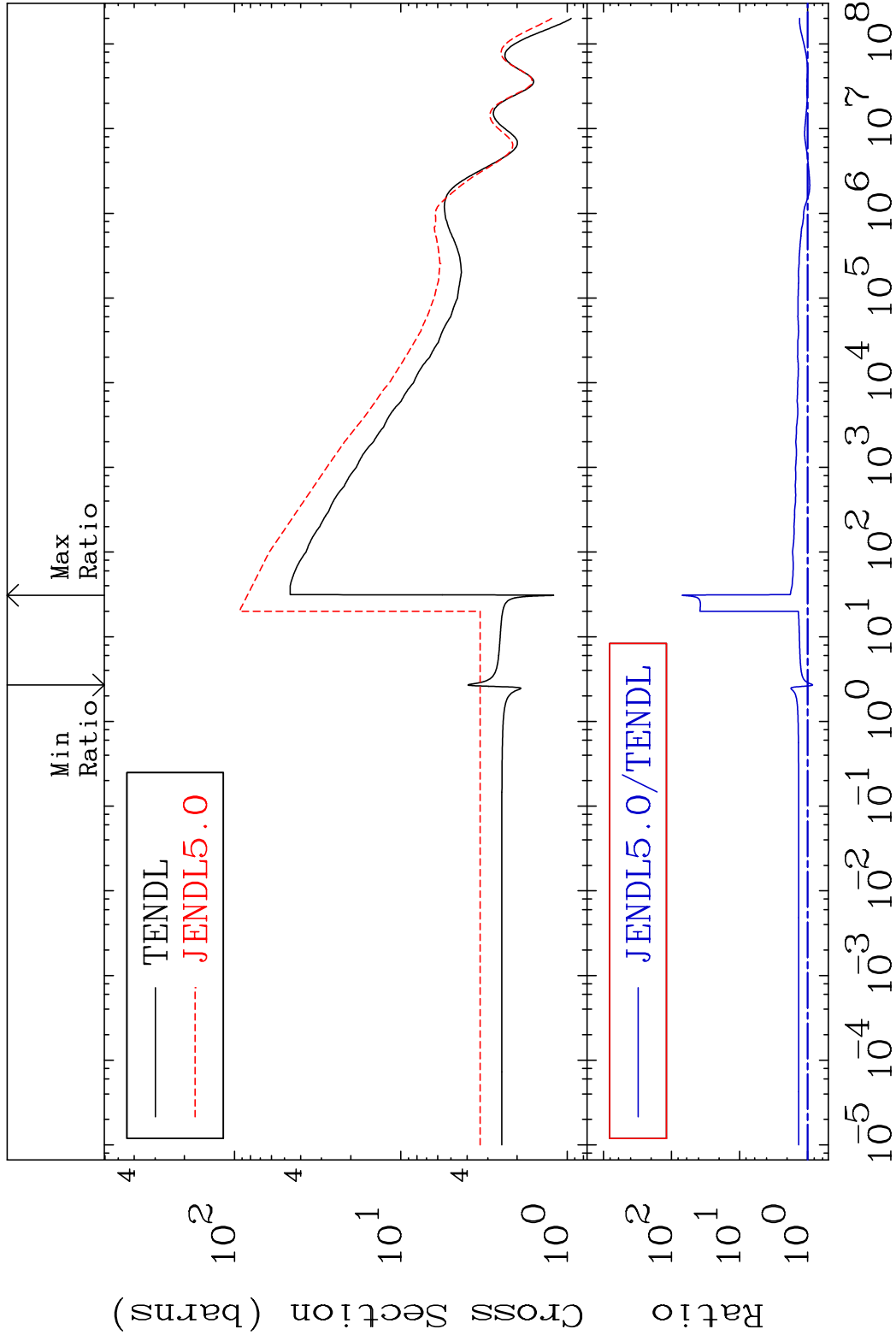
56-Ba-135m

MAT 5641

Elastic

56-Ba-135m

Cross Section -15.65 To 6833. %



2

Incident Energy (eV)

56-Ba-135m

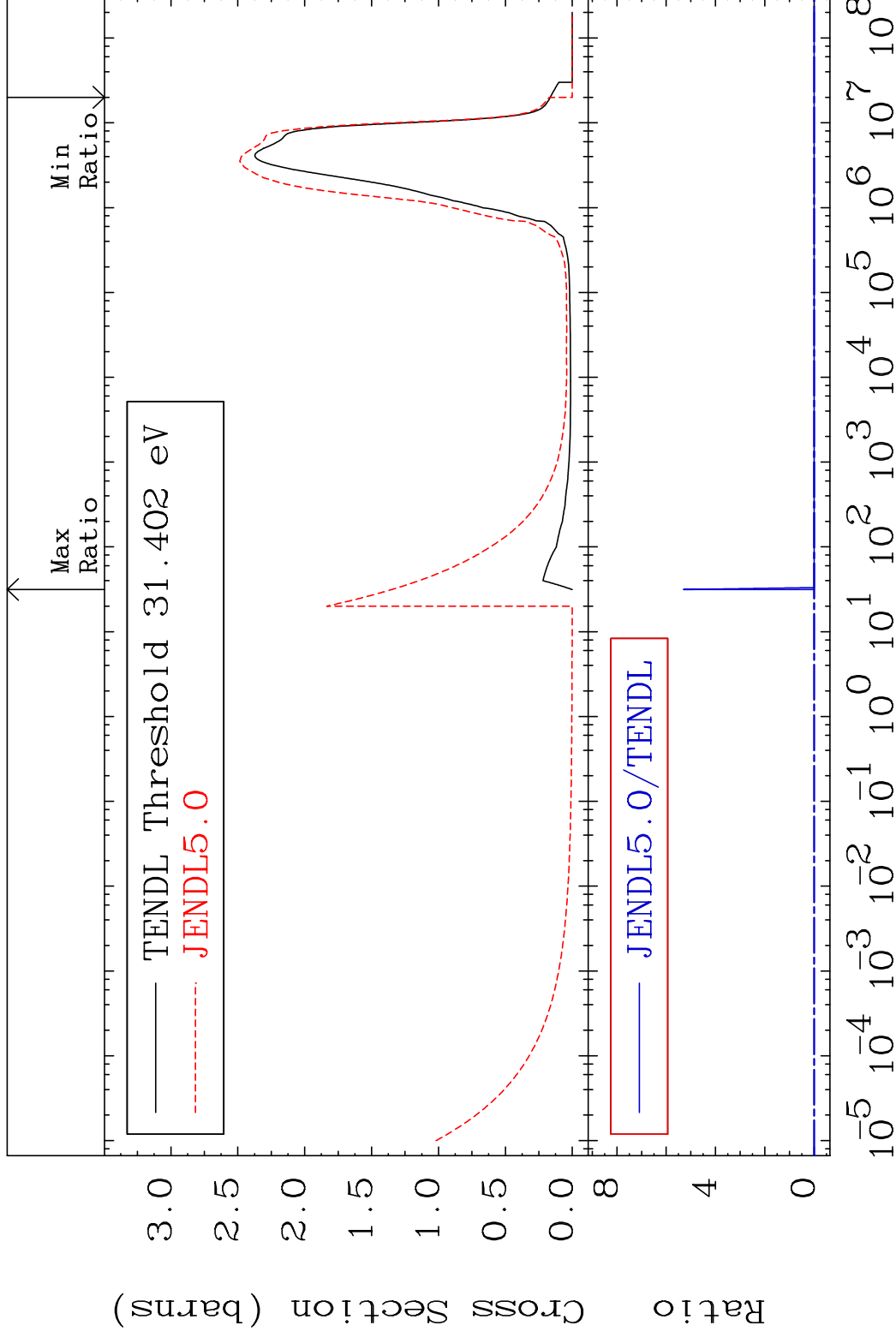
MAT 5641

Inelastic

56-Ba-135m

Cross Section

-100.0 To 9999. %

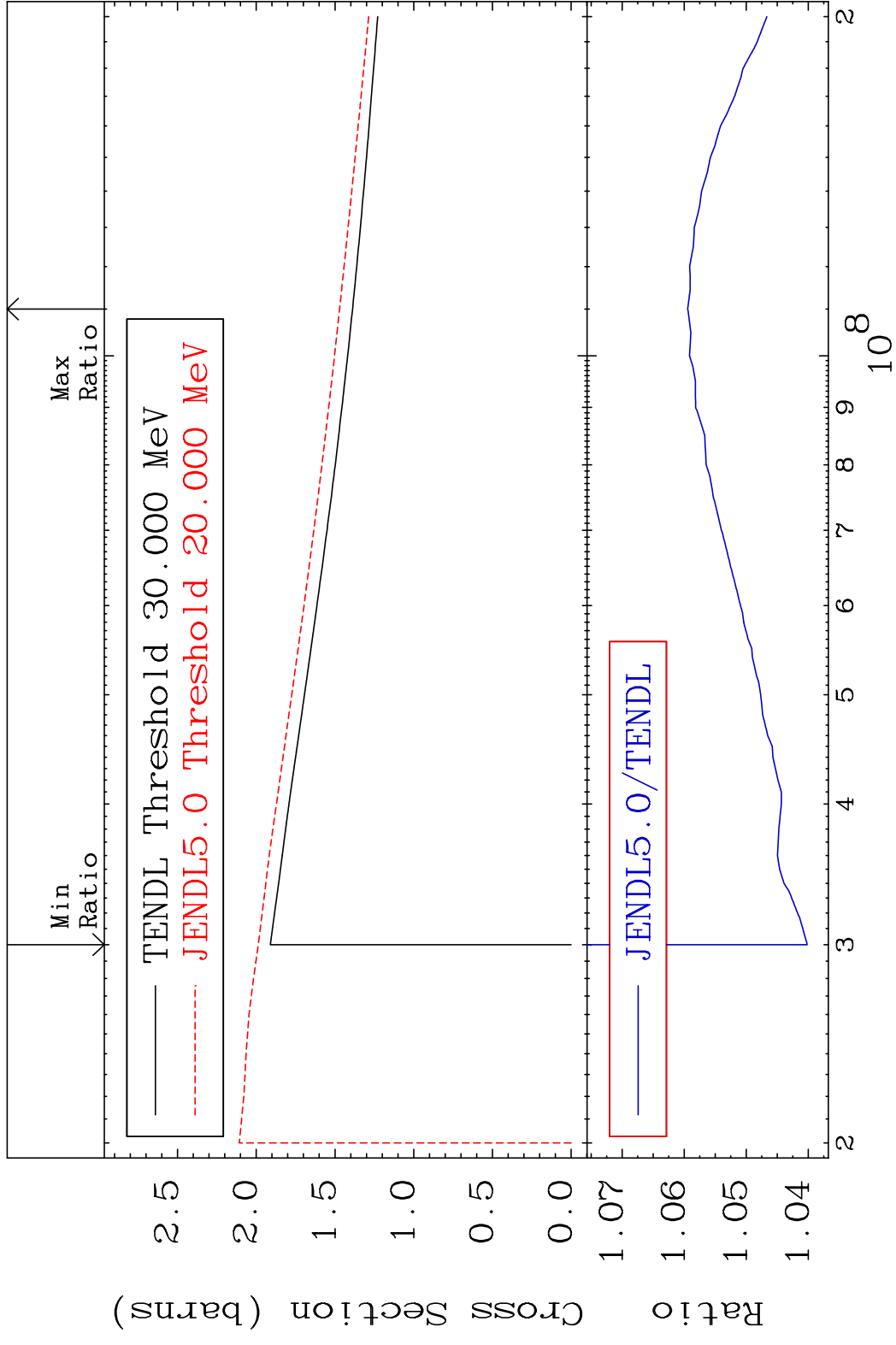


3

Incident Energy (eV)

56-Ba-135m

MAT 5641 (n, remainder) 56-Ba-135m  
 Cross Section 4.016 To 5.944 %



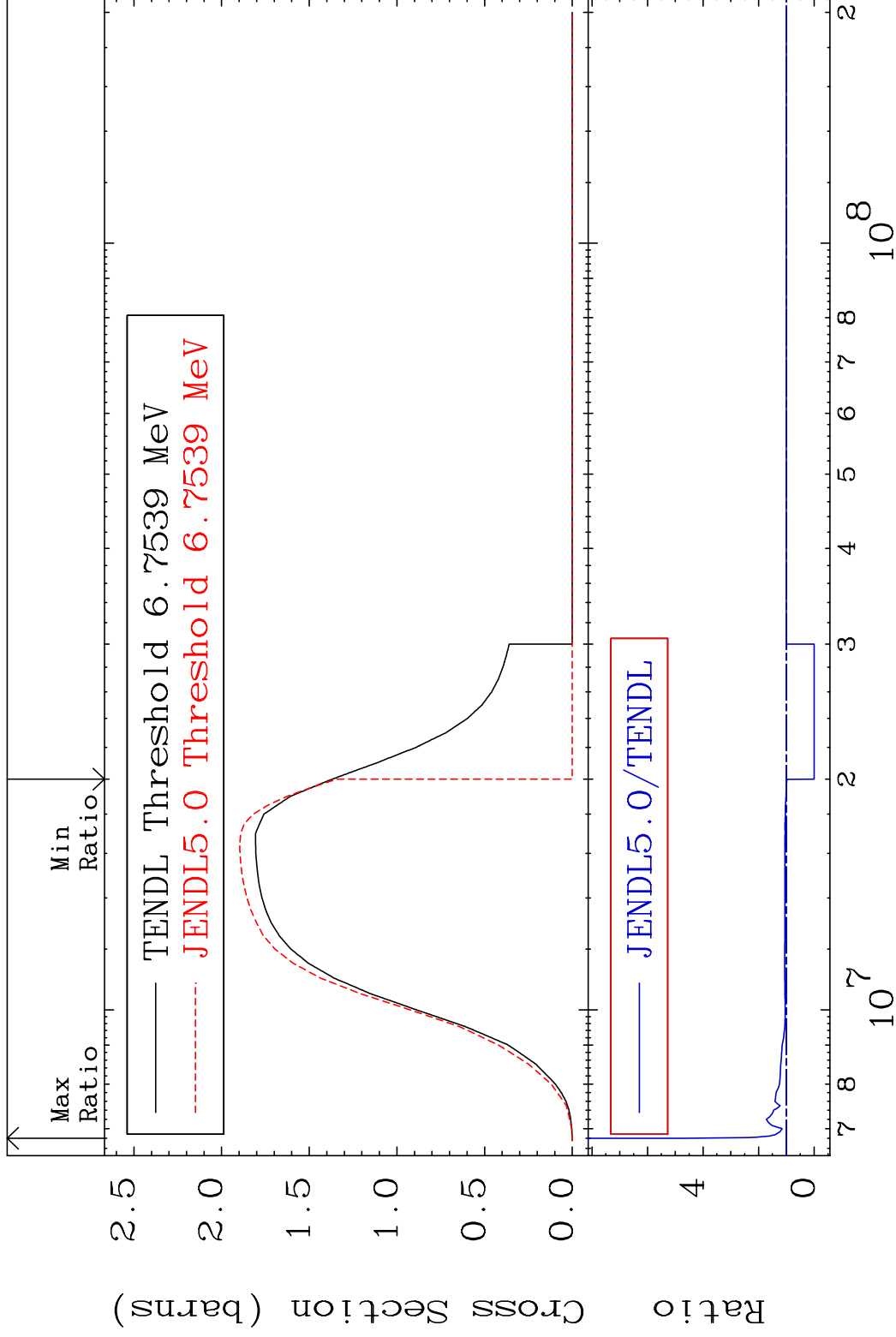
4 Incident Energy (eV) 56-Ba-135m

MAT 5641

(n,2n)

56-Ba-135m

Cross Section -100.0 To 369.8 %



5

Incident Energy (eV)

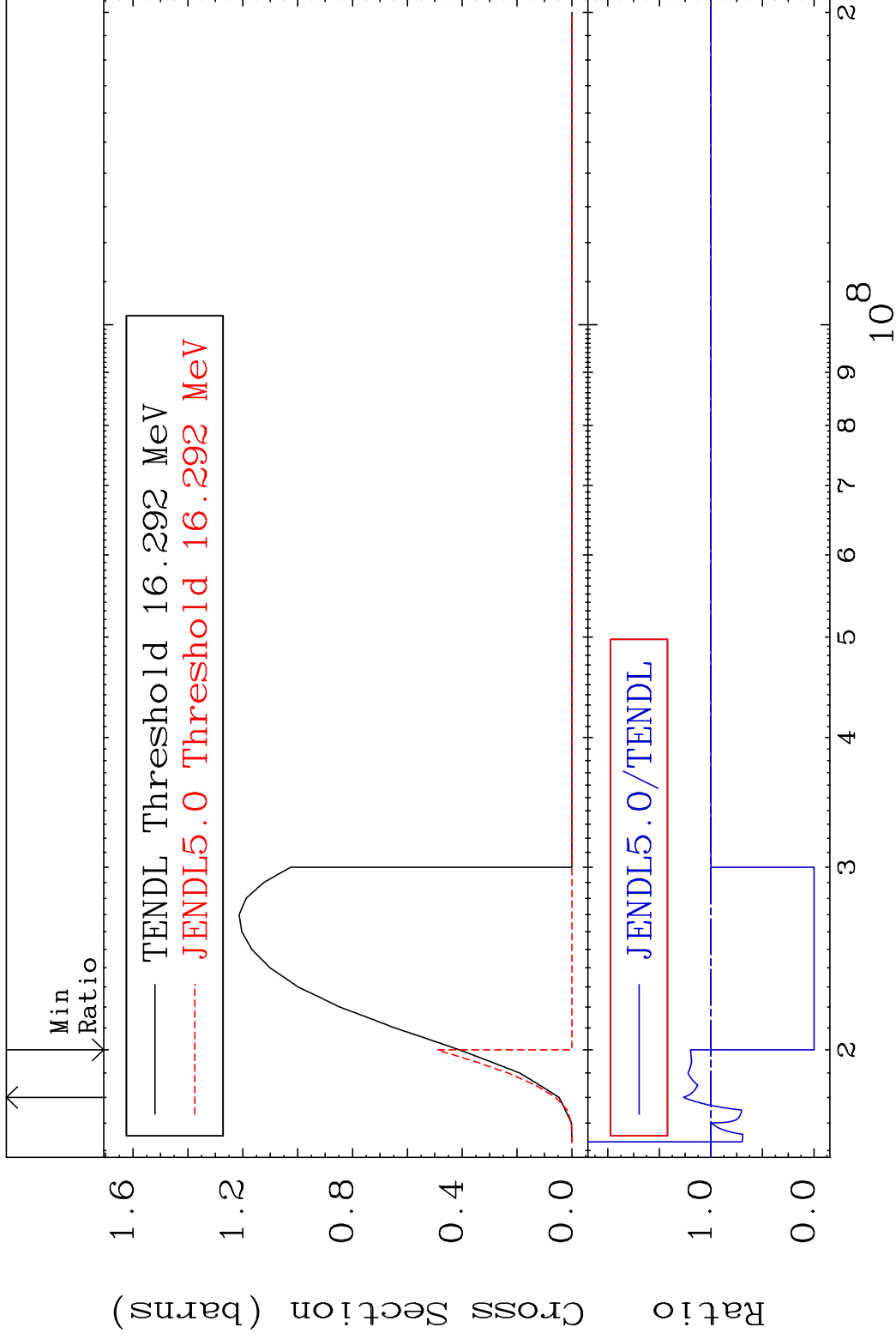
56-Ba-135m

MAT 5641

(n,3n)

56-Ba-135m

Cross Section -100.0 To 26.69 %



6

Incident Energy (eV)

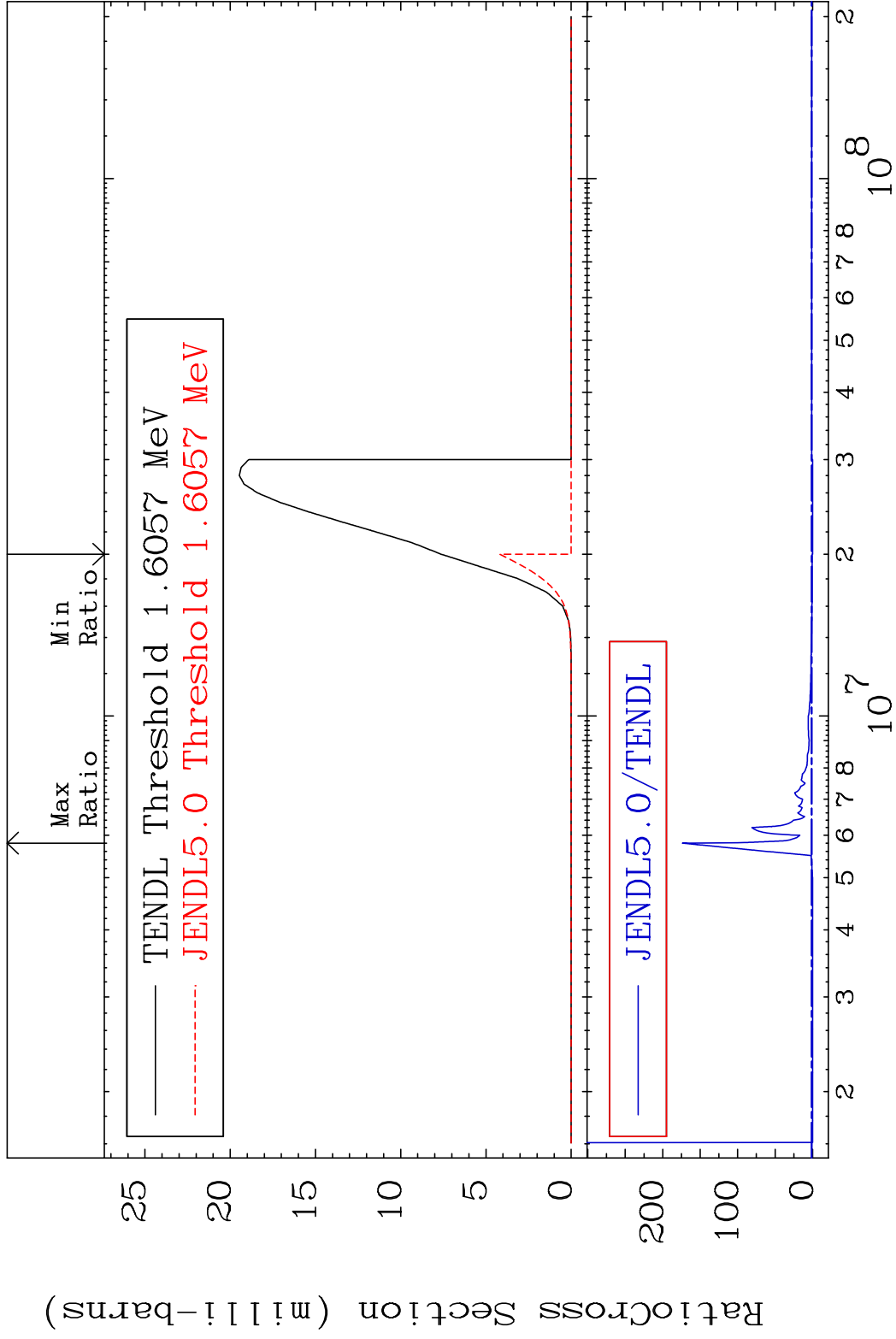
56-Ba-135m

MAT 5641

(n, n')  $\alpha$

56-Ba-135m

Cross Section -100.0 To 9999. %



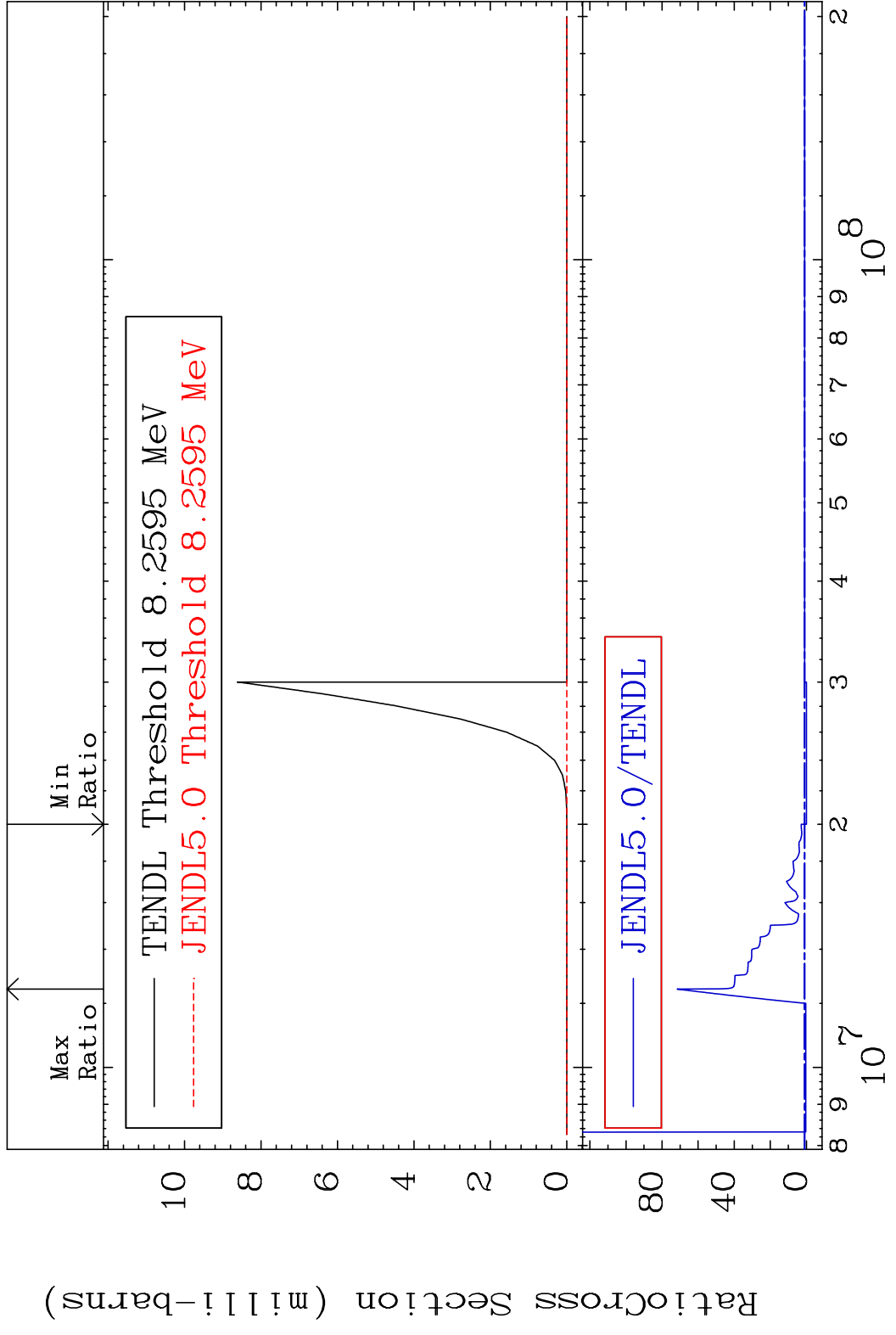
7

Incident Energy (eV)

56-Ba-135m



MAT 5641 (n,2n)  $\alpha$  56-Ba-135m  
 Cross Section -100.0 To 7061. %



8 8 9 7 2 8 9 10 8 2

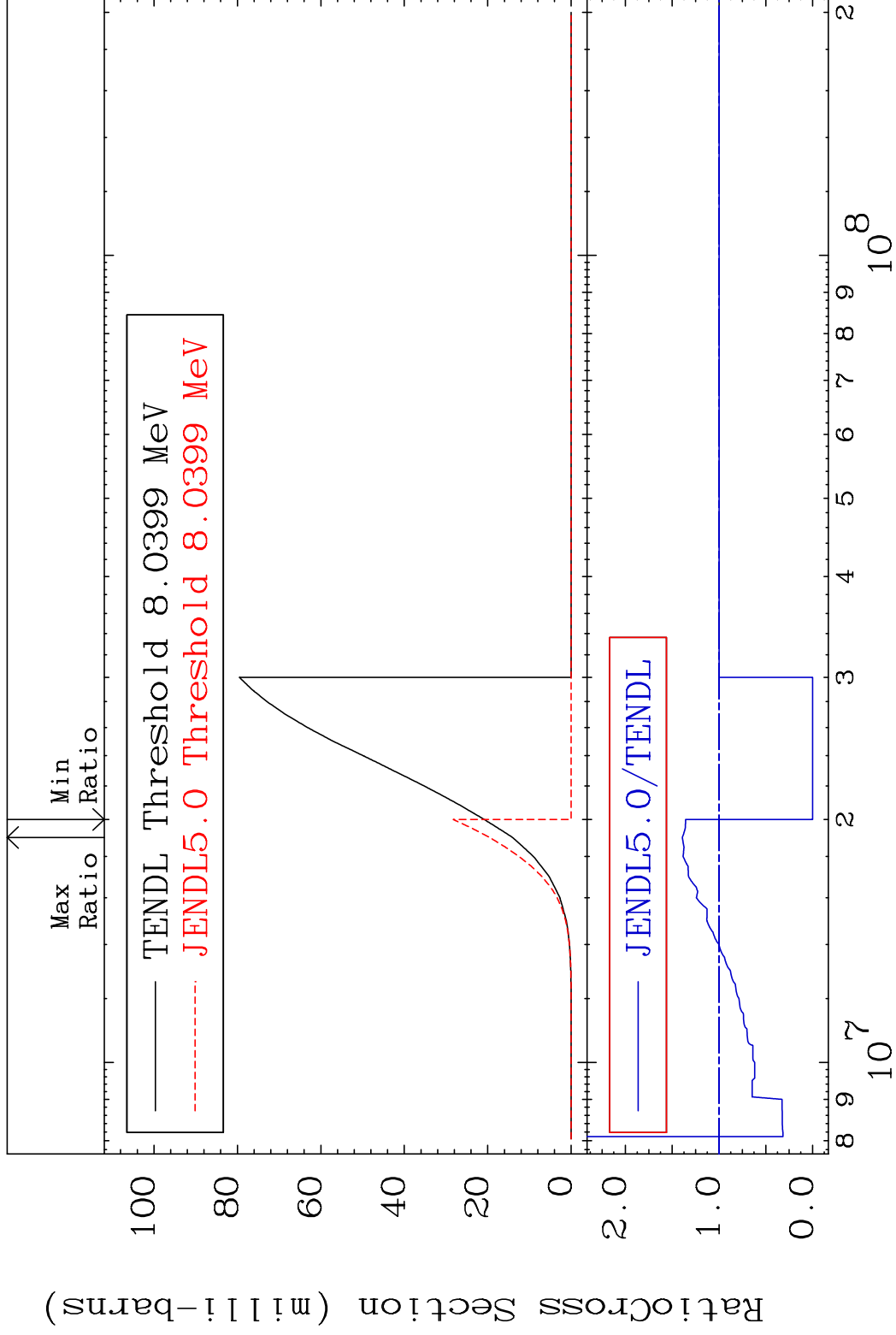
8 Incident Energy (eV) 56-Ba-135m

MAT 5641

(n, n') p

56-Ba-135m

Cross Section -100.0 To 39.16 %



9

Incident Energy (eV)

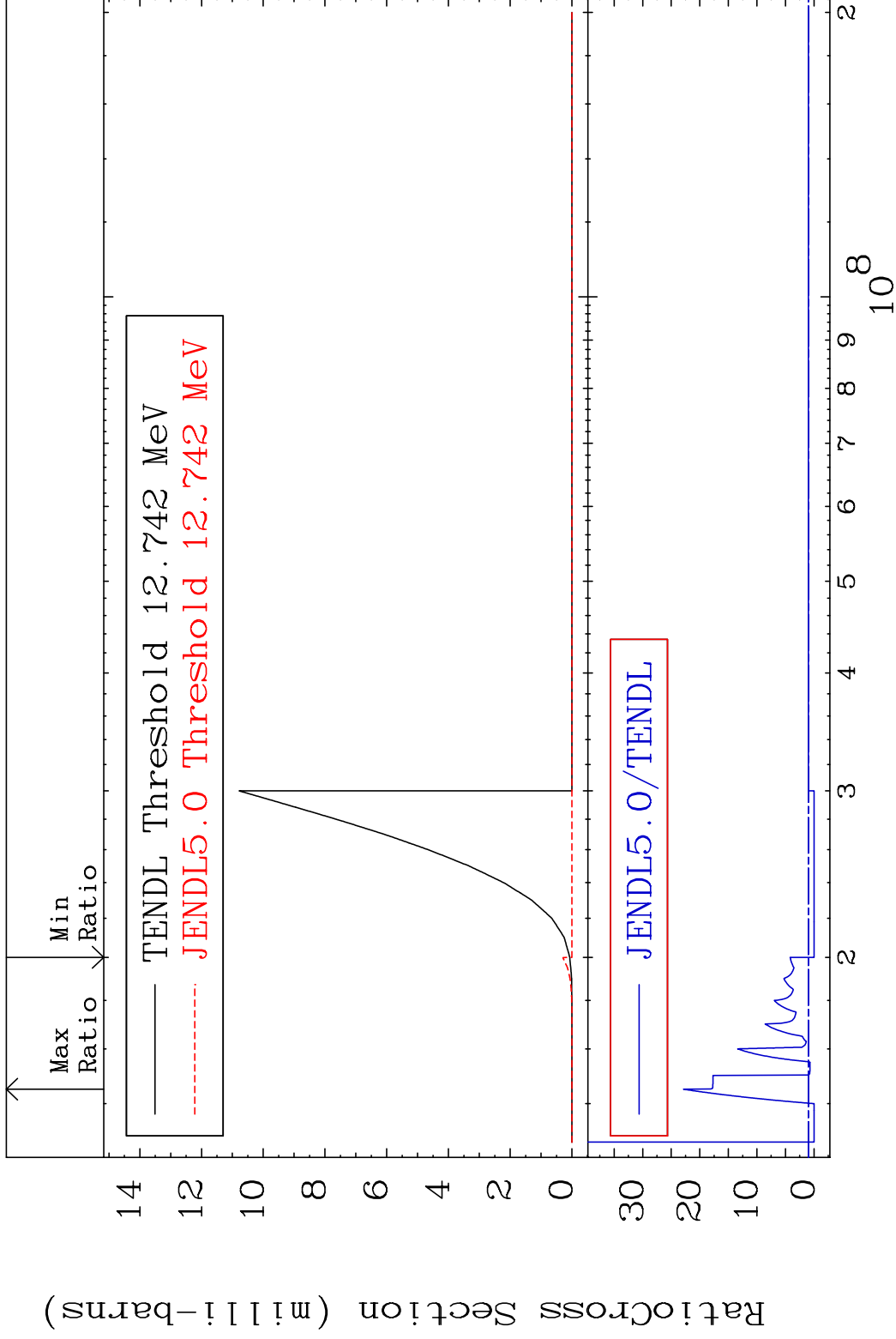
56-Ba-135m

MAT 5641

(n, n') d

56-Ba-135m

Cross Section -100.0 To 2186. %

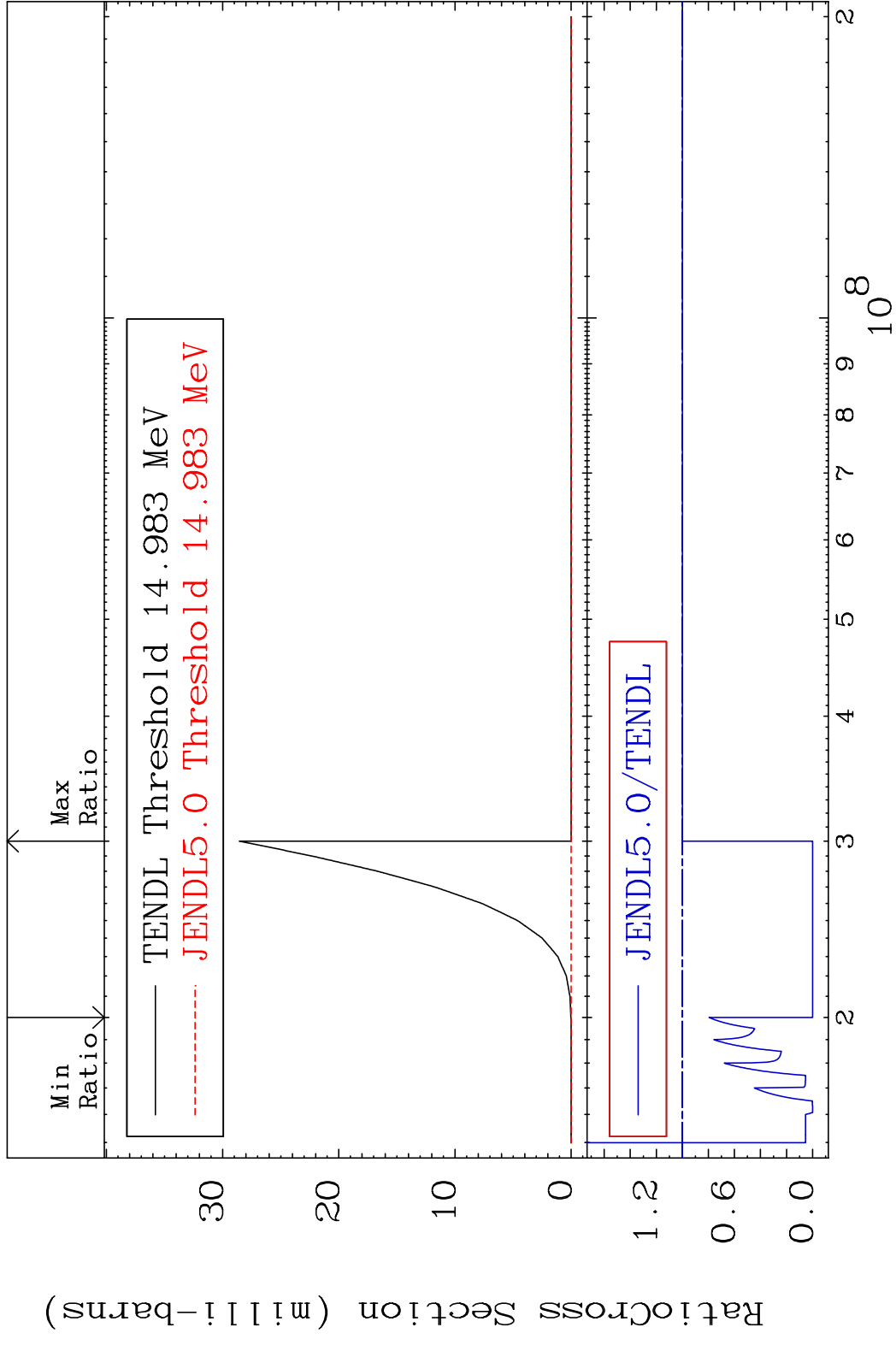


10

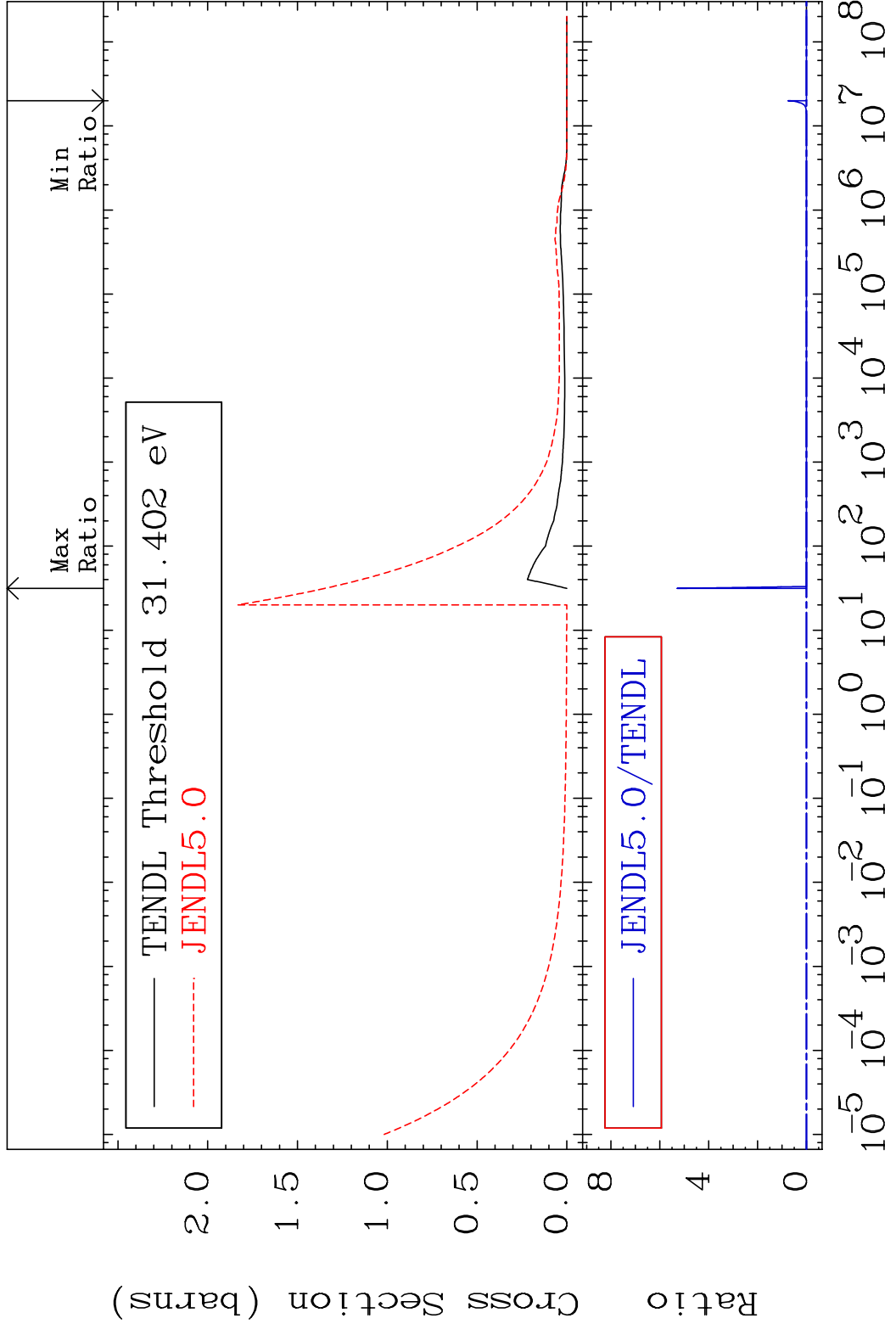
Incident Energy (eV)

56-Ba-135m

MAT 5641 (n,2n) p 56-Ba-135m  
 Cross Section -100.0 To 0.000 %

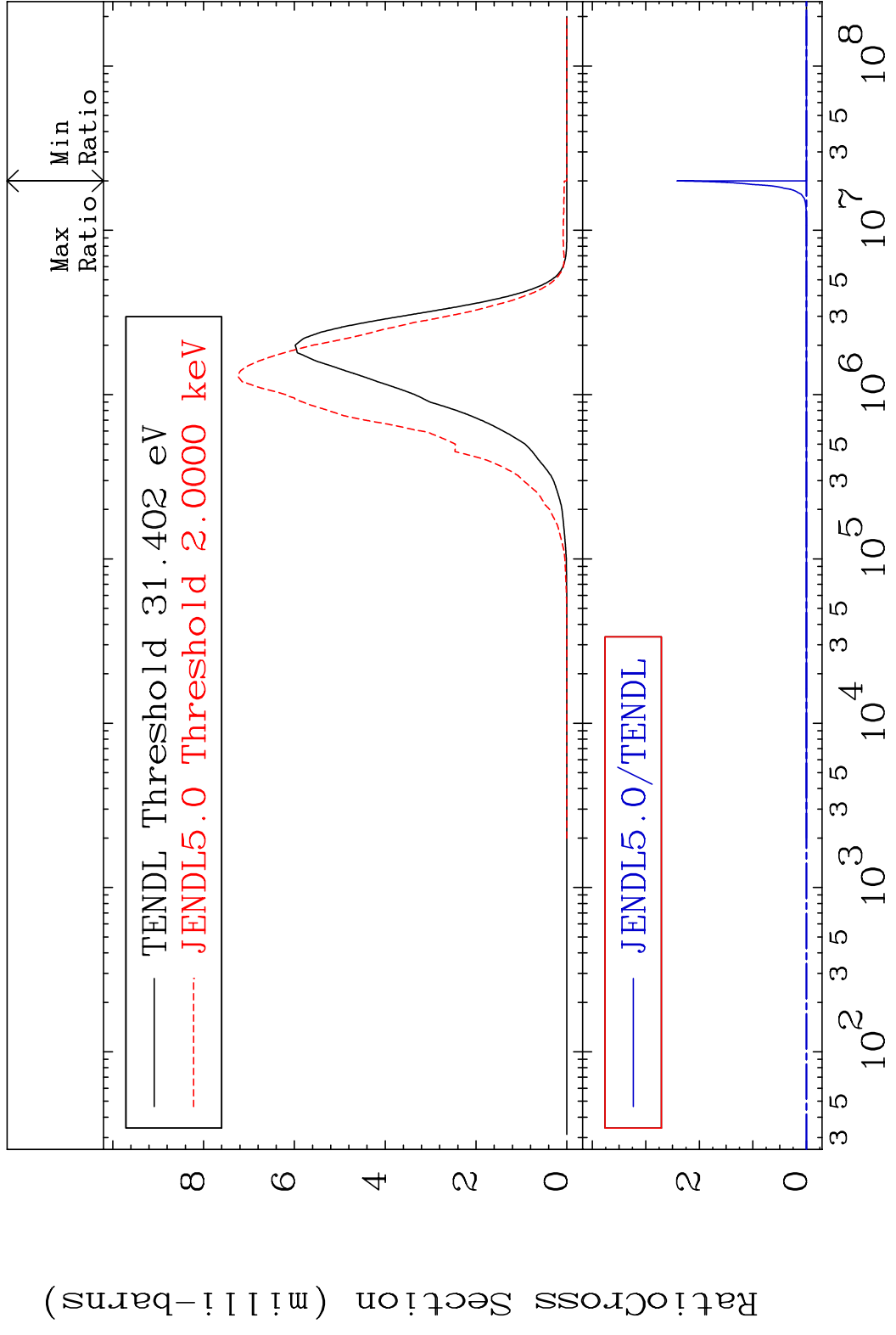


MAT 5641 MT= 51 (n, n') Level 56-Ba-135m  
 Cross Section -100.0 To 9999. %



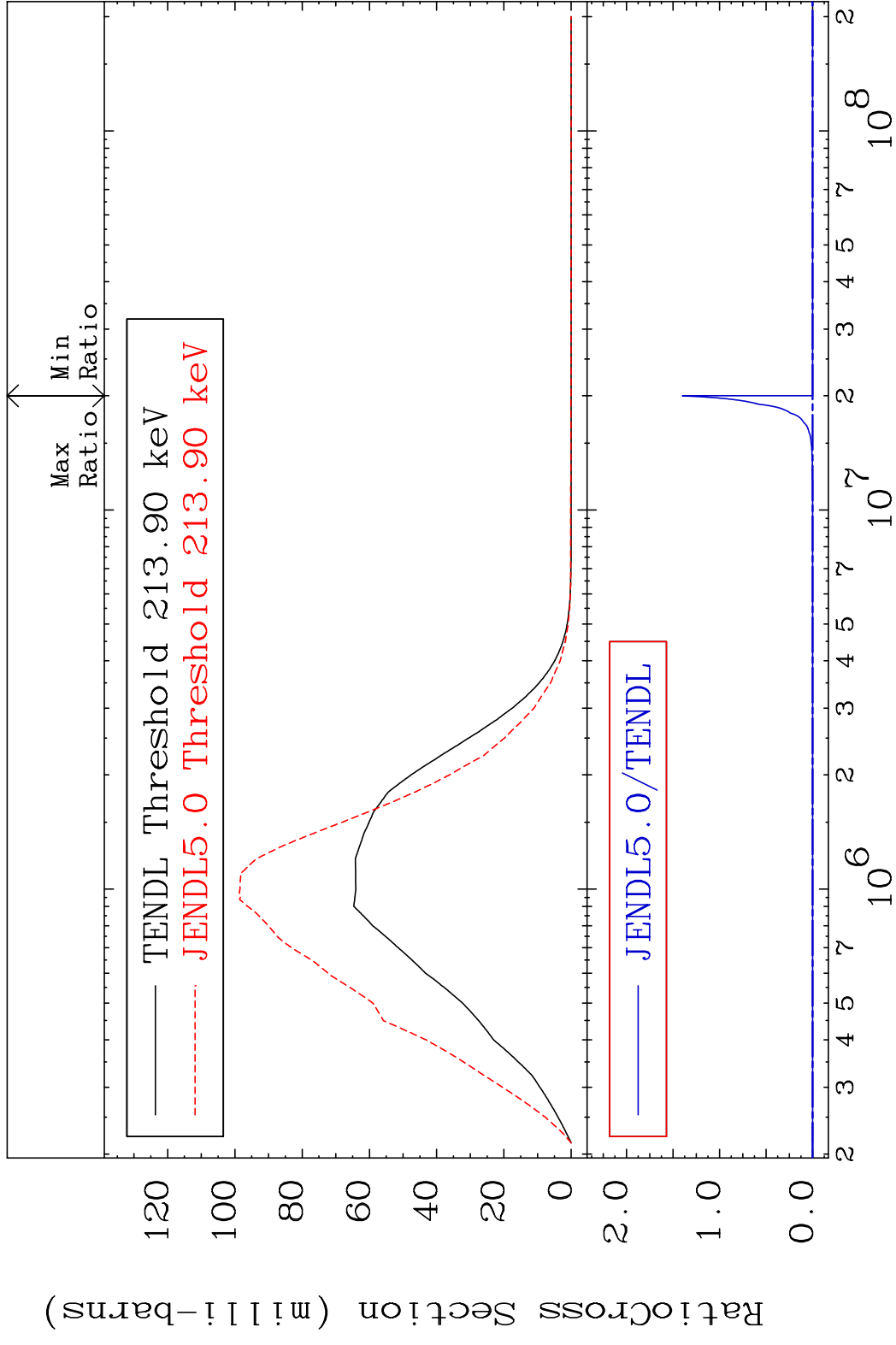
12 56-Ba-135m

MAT 5641 MT= 52 (n,n') Level 56-Ba-135m  
 Cross Section -100.0 To 9999. %



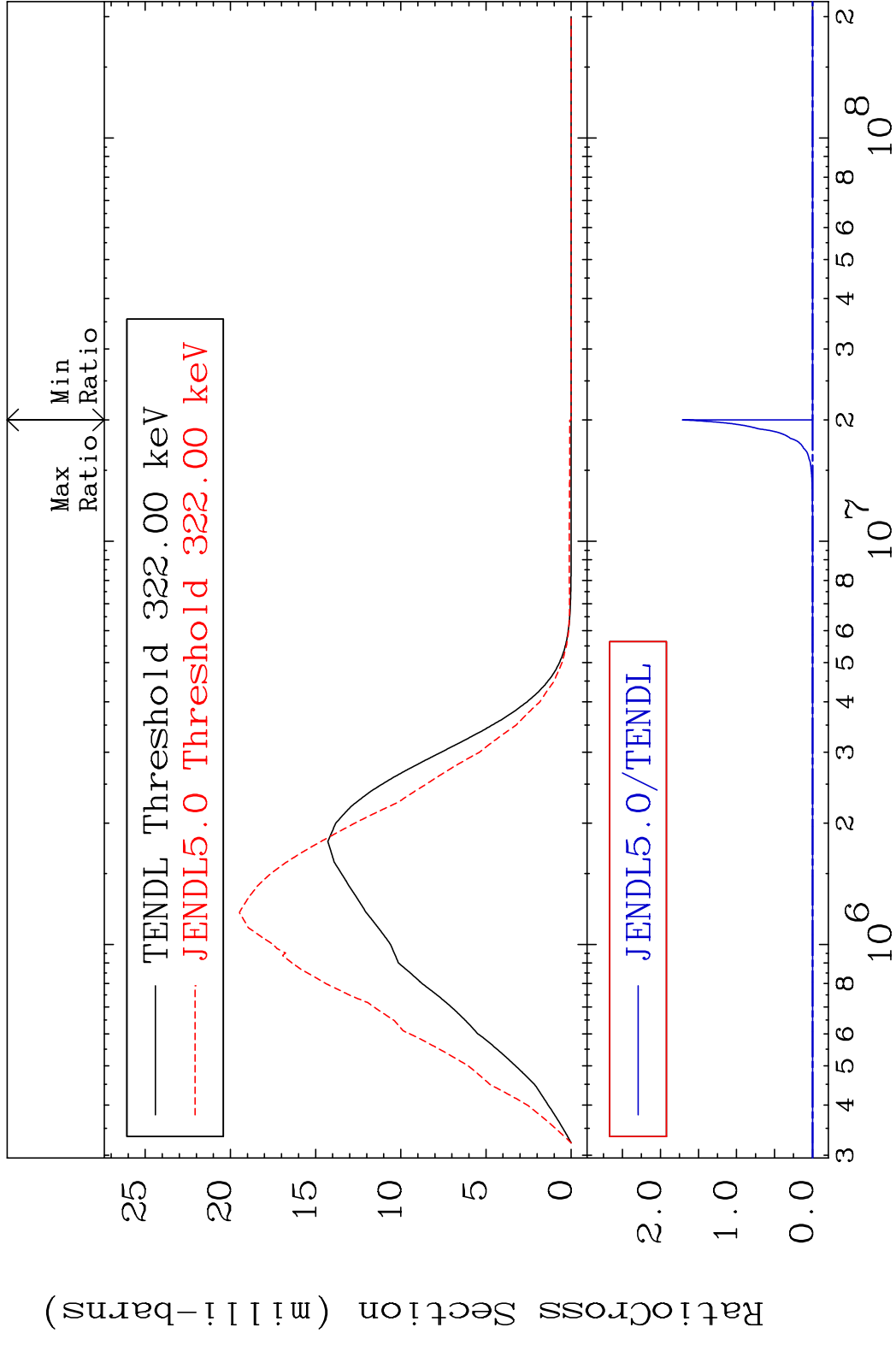
13 Incident Energy (eV) 56-Ba-135m

MAT 5641 MT= 53 (n, n') Level 56-Ba-135m  
 Cross Section -100.0 To 9999. %



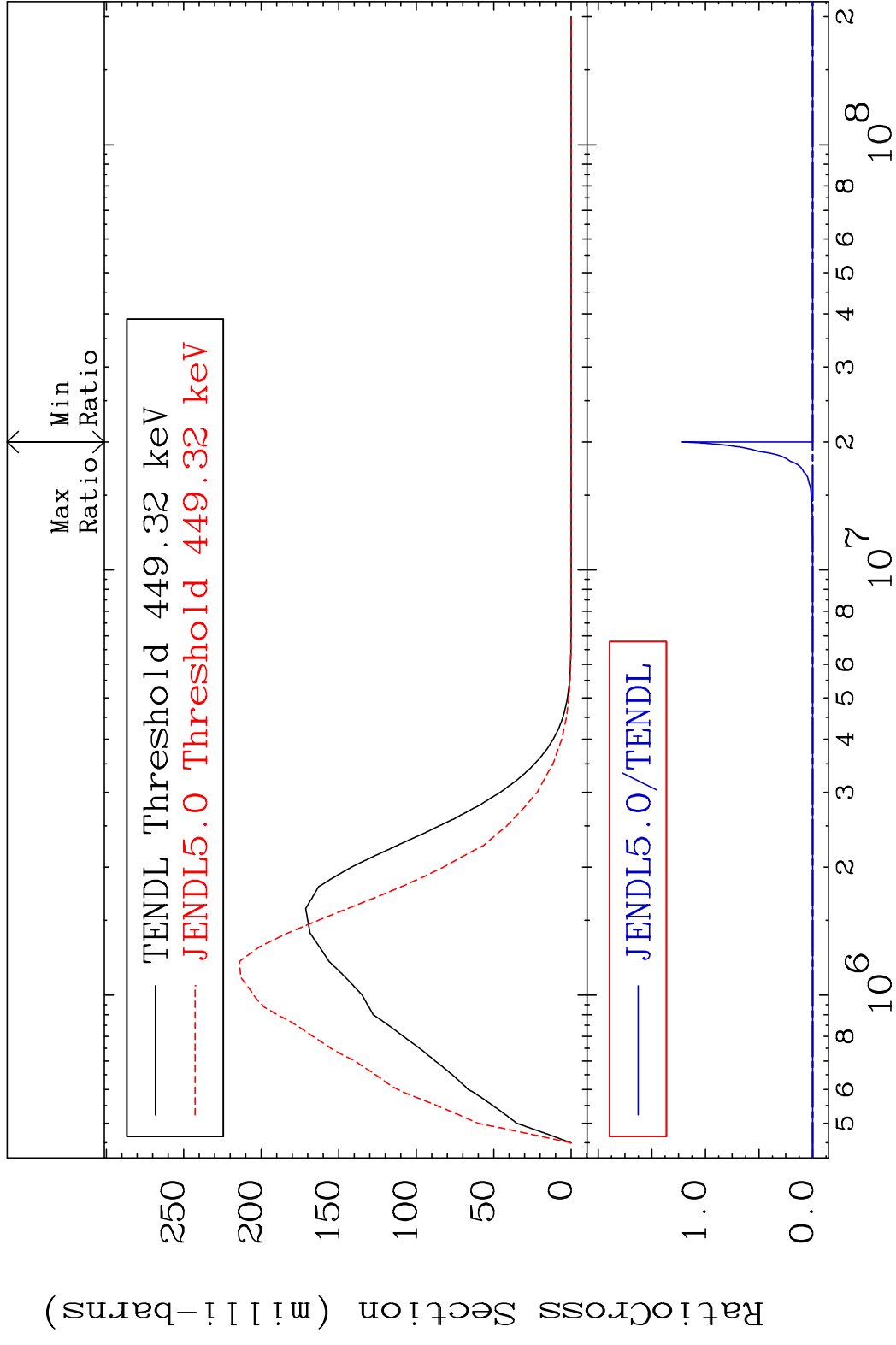
14 Incident Energy (eV) 56-Ba-135m

MAT 5641 MT= 54 (n,n') Level 56-Ba-135m  
 Cross Section -100.0 To 9999. %



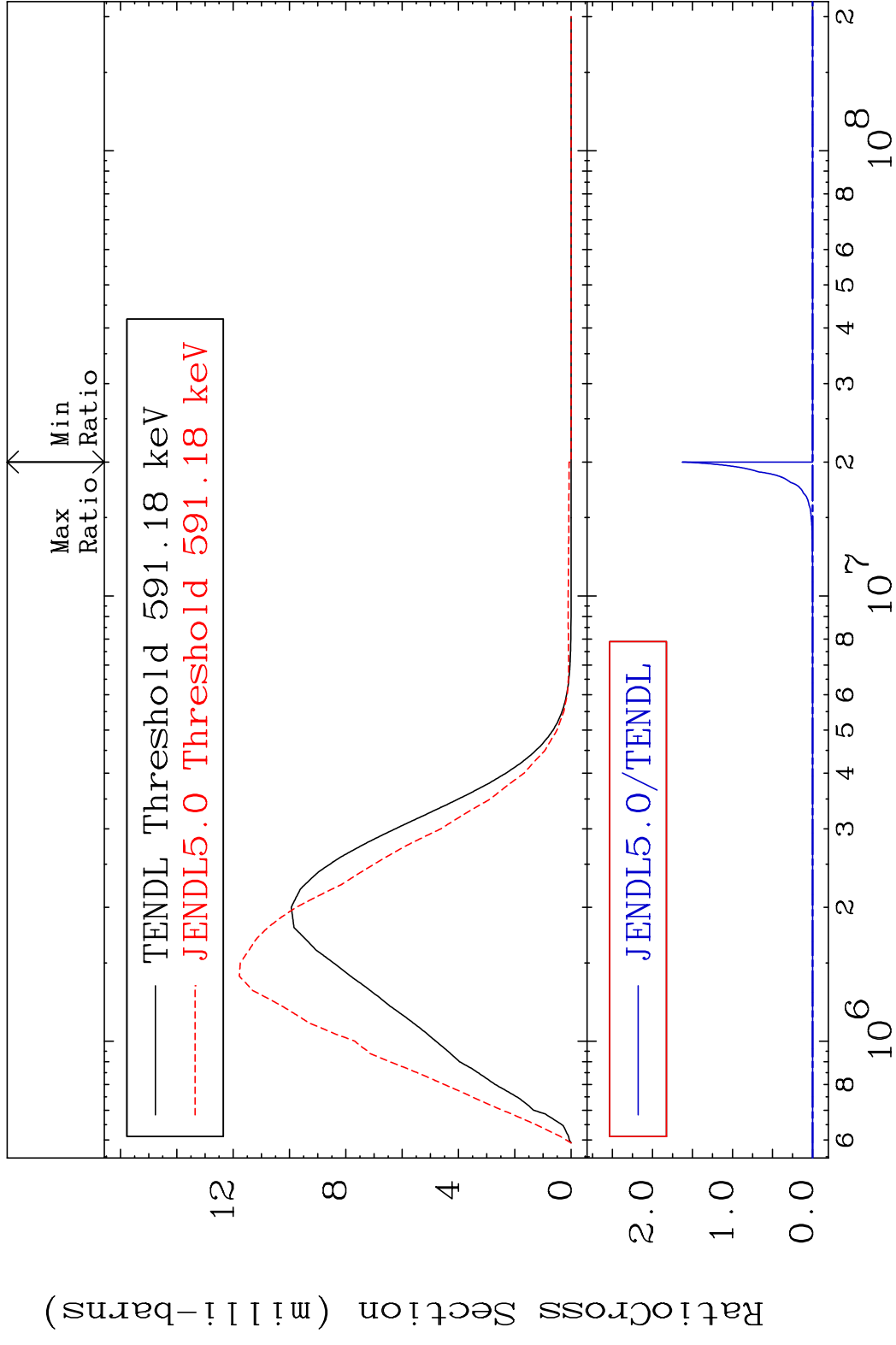


MAT 5641 MT= 55 (n, n') Level 56-Ba-135m  
 Cross Section -100.0 To 9999. %



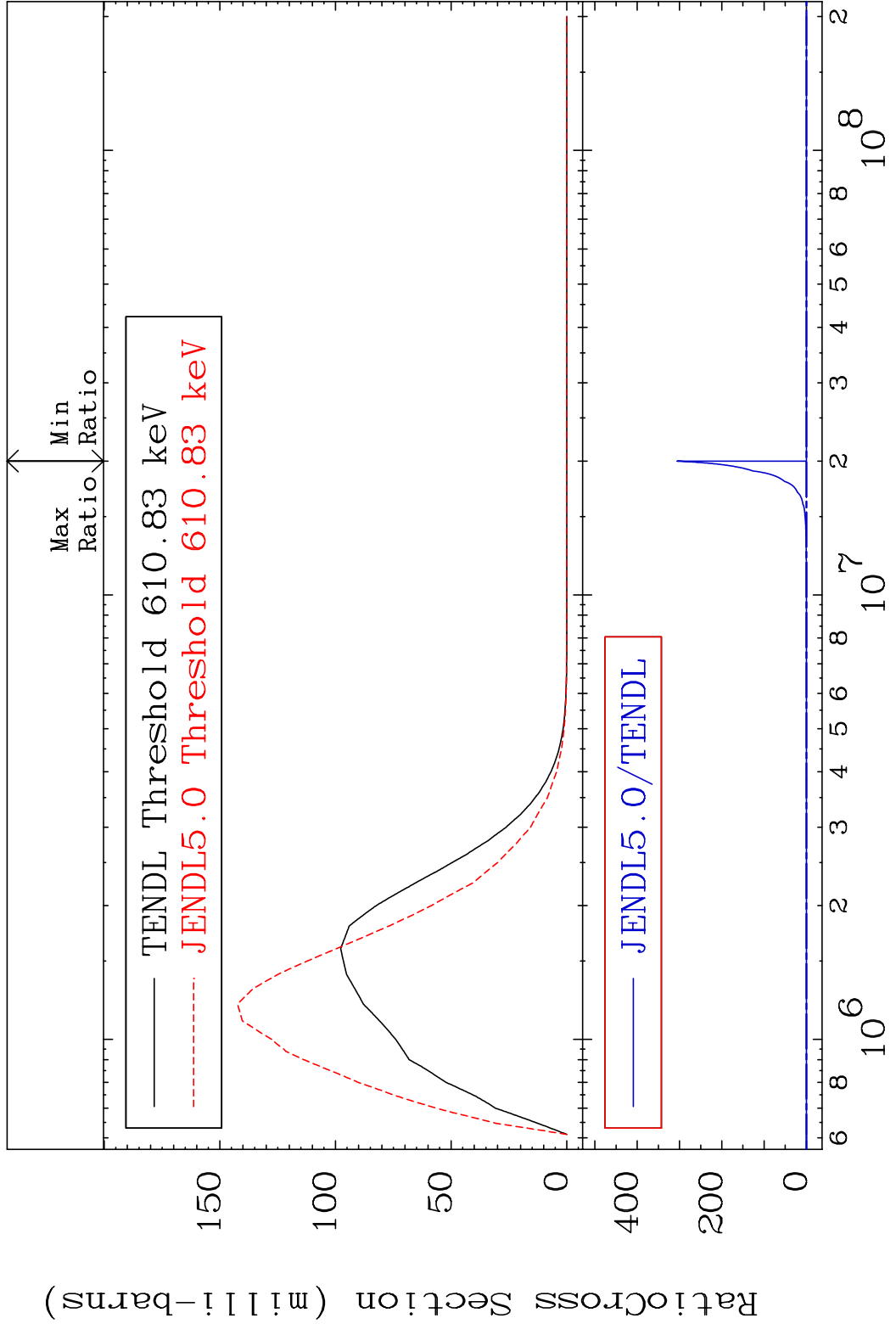
16 Incident Energy (eV) 56-Ba-135m

MAT 5641 MT= 56 (n, n') Level 56-Ba-135m  
 Cross Section -100.0 To 9999. %

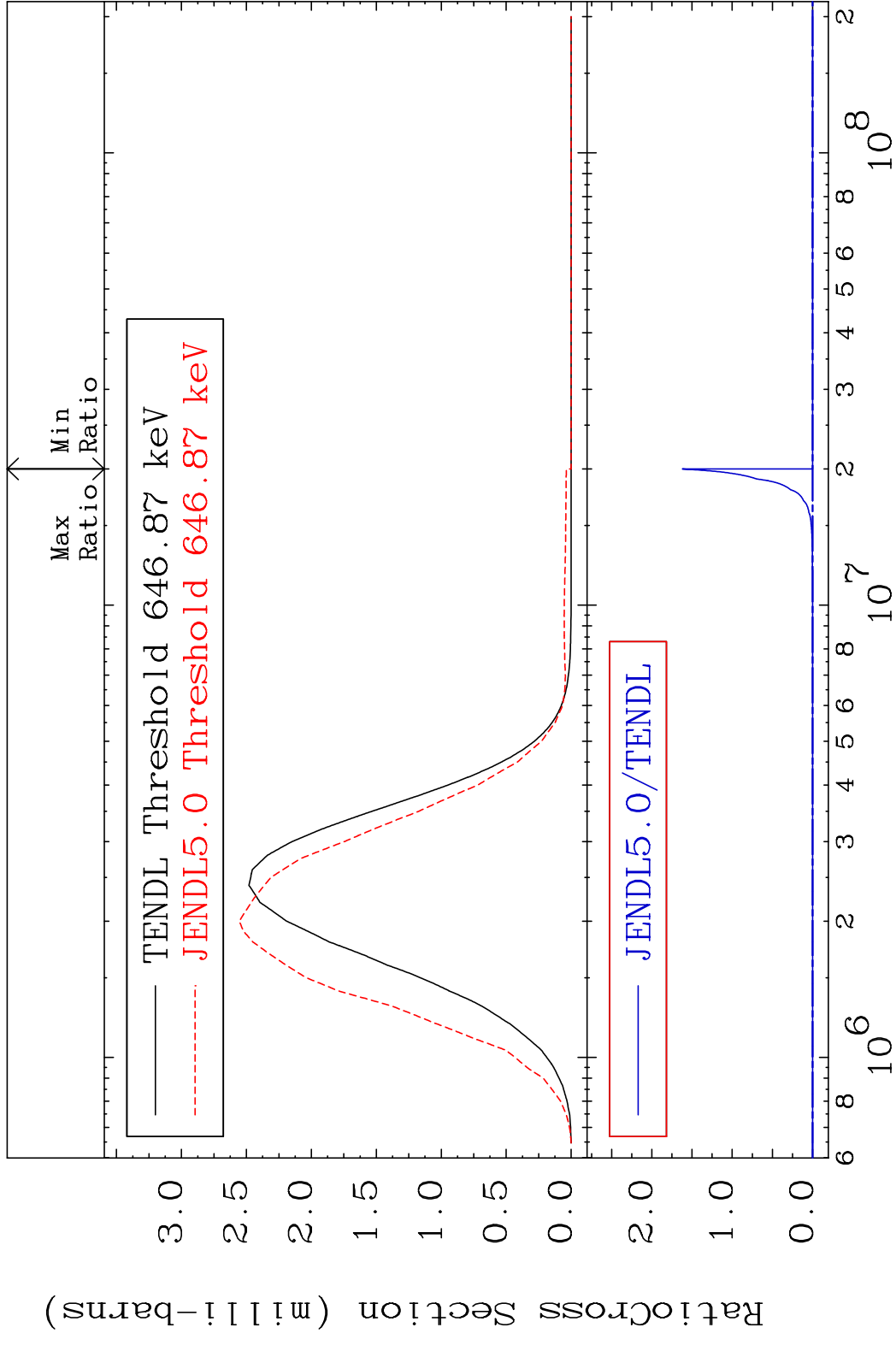


17 Incident Energy (eV) 56-Ba-135m

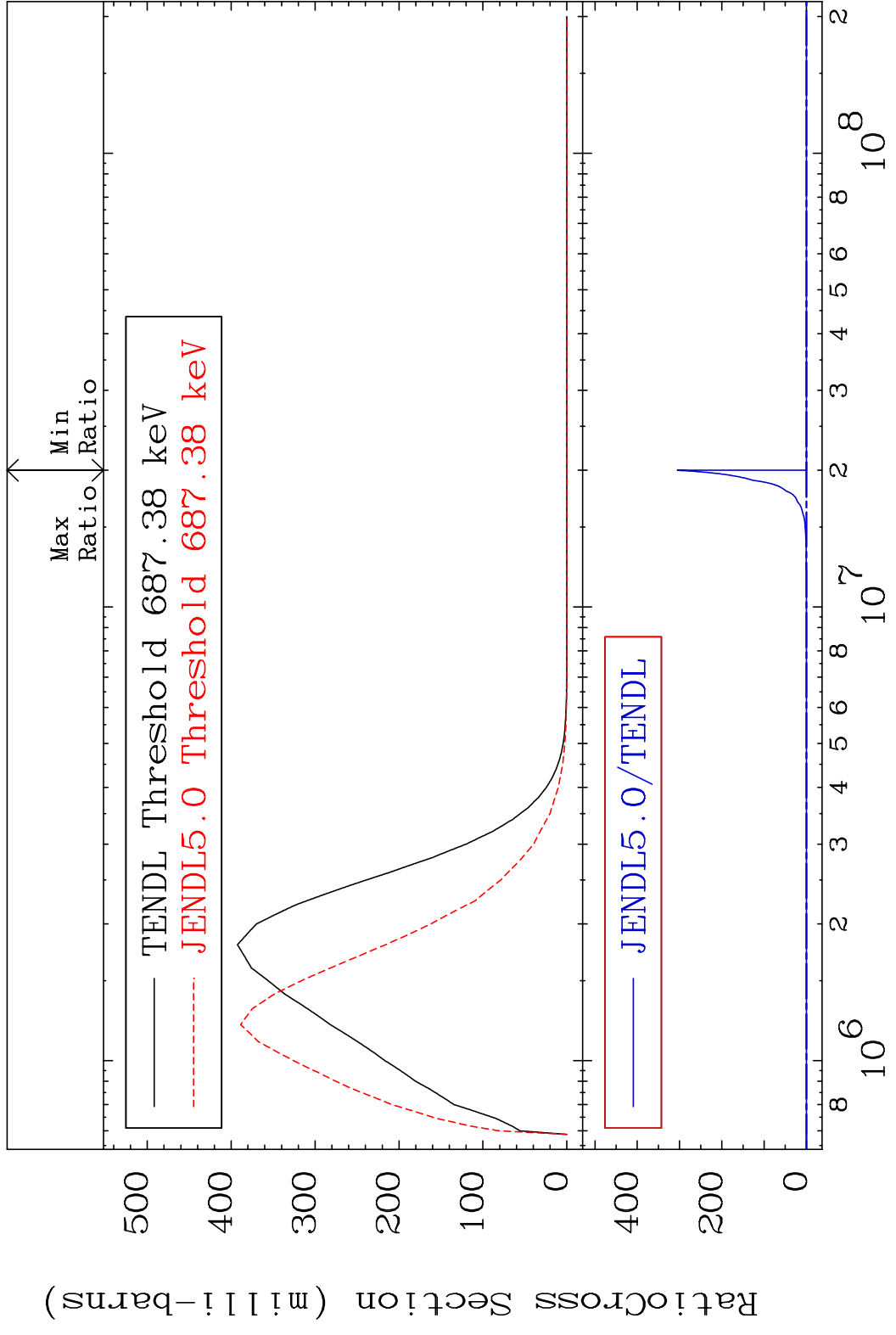
MAT 5641 MT= 57 (n, n') Level 56-Ba-135m  
 Cross Section -100.0 To 9999. %



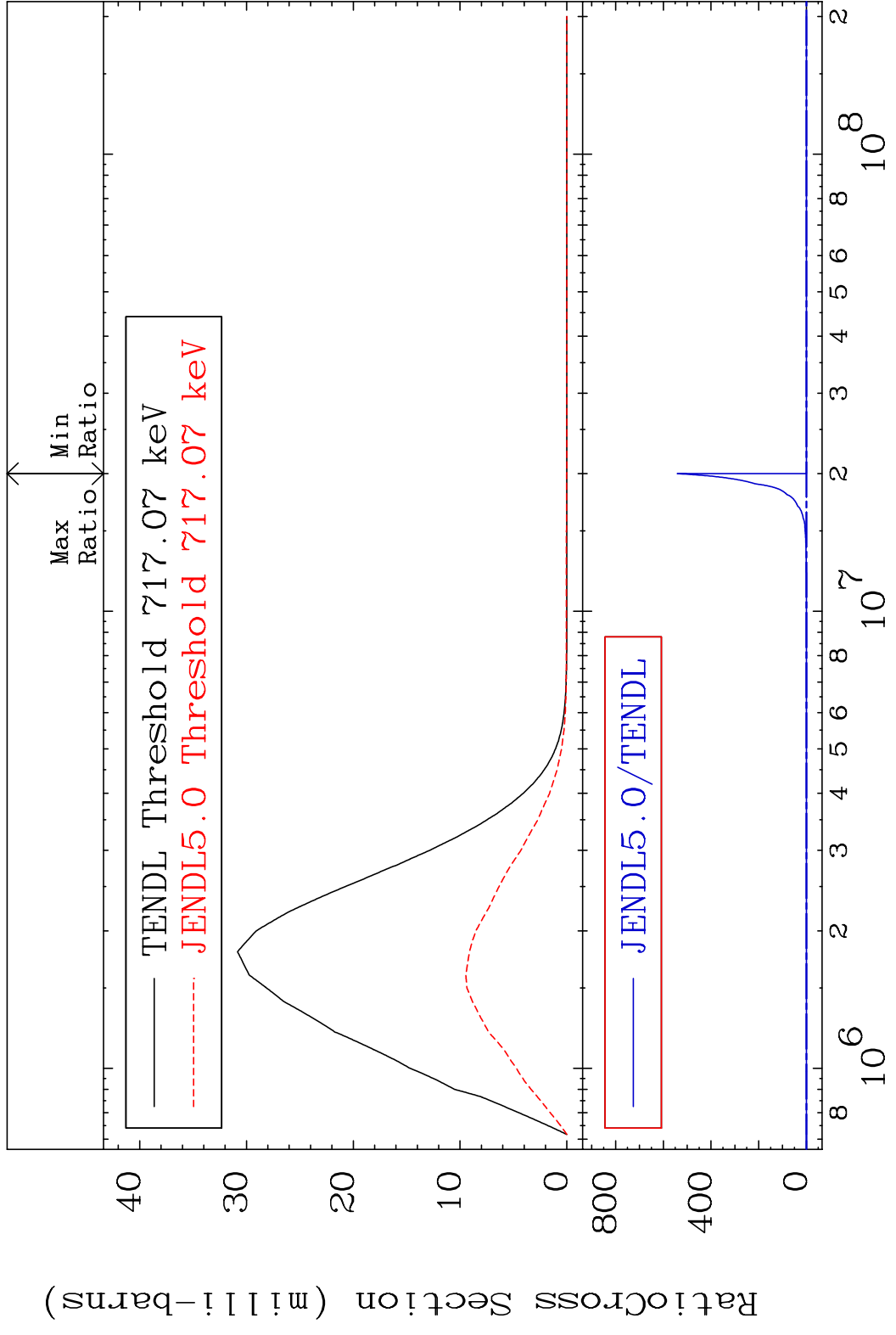
MAT 5641 MT= 58 (n, n') Level 56-Ba-135m  
 Cross Section -100.0 To 9999. %



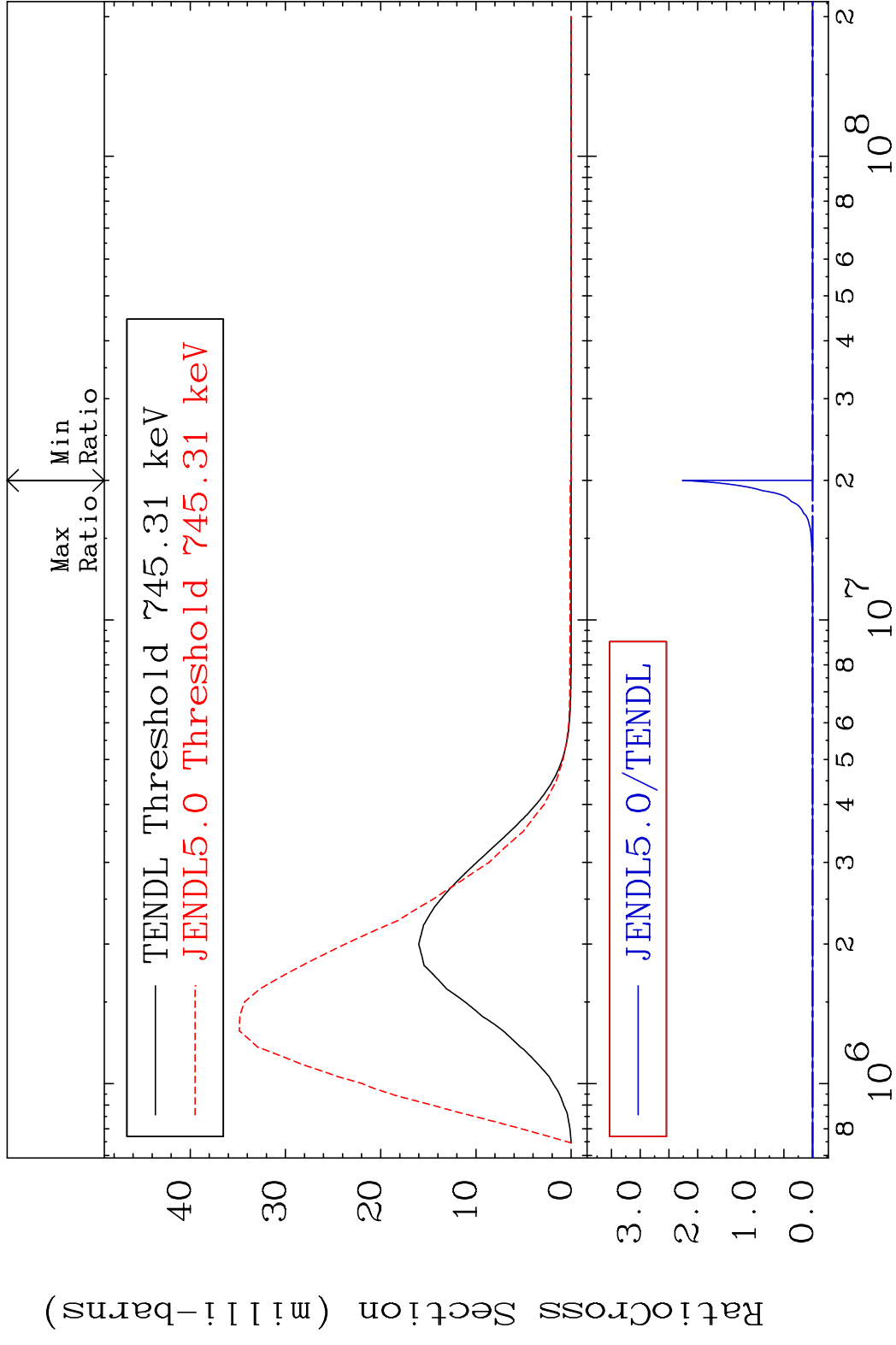
MAT 5641 MT= 59 (n, n') Level 56-Ba-135m  
 Cross Section -100.0 To 9999. %



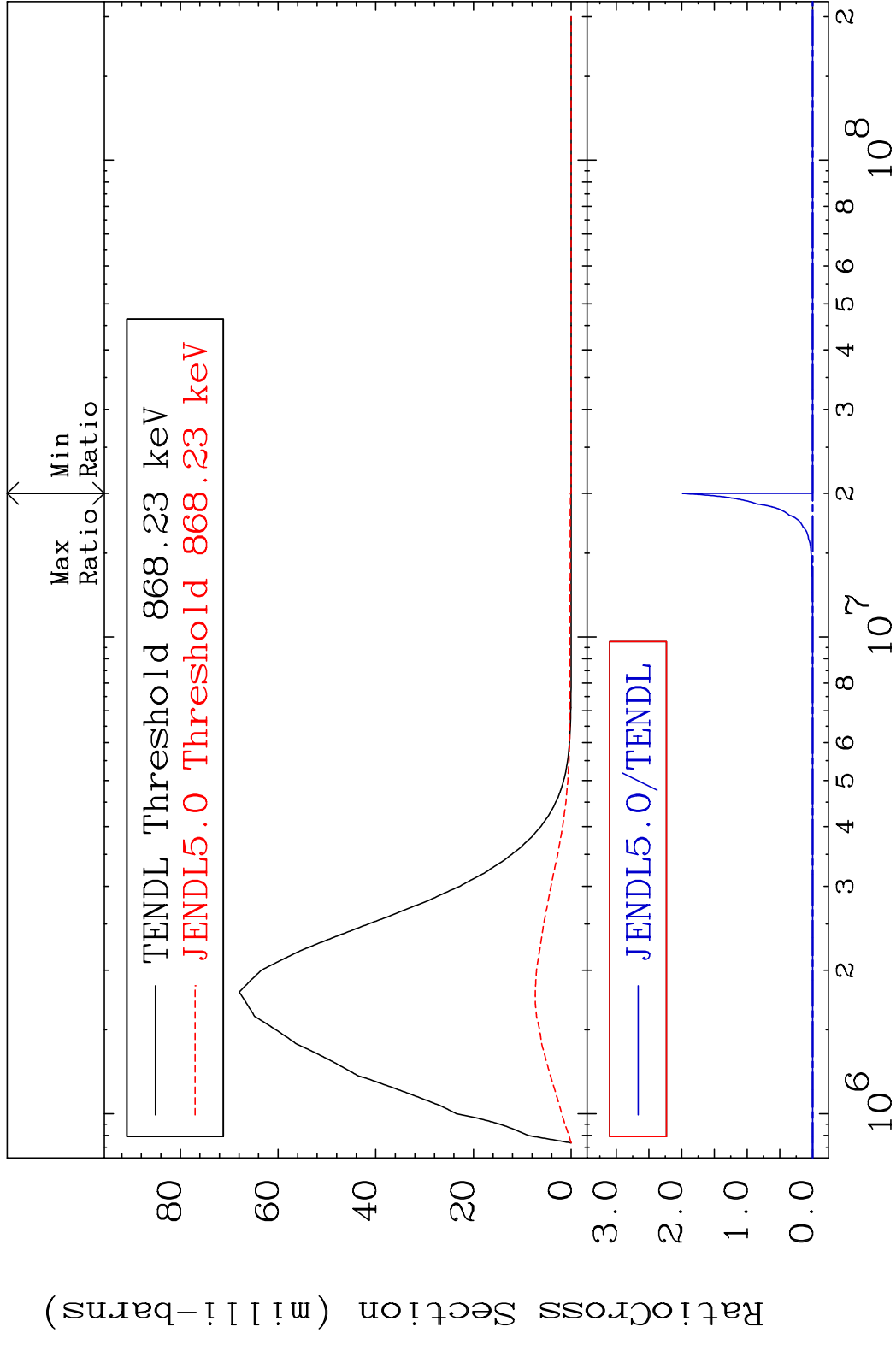
MAT 5641 MT= 60 (n, n') Level 56-Ba-135m  
 Cross Section -100.0 To 9999. %



MAT 5641 MT= 61 (n, n') Level 56-Ba-135m  
 Cross Section -100.0 To 9999. %

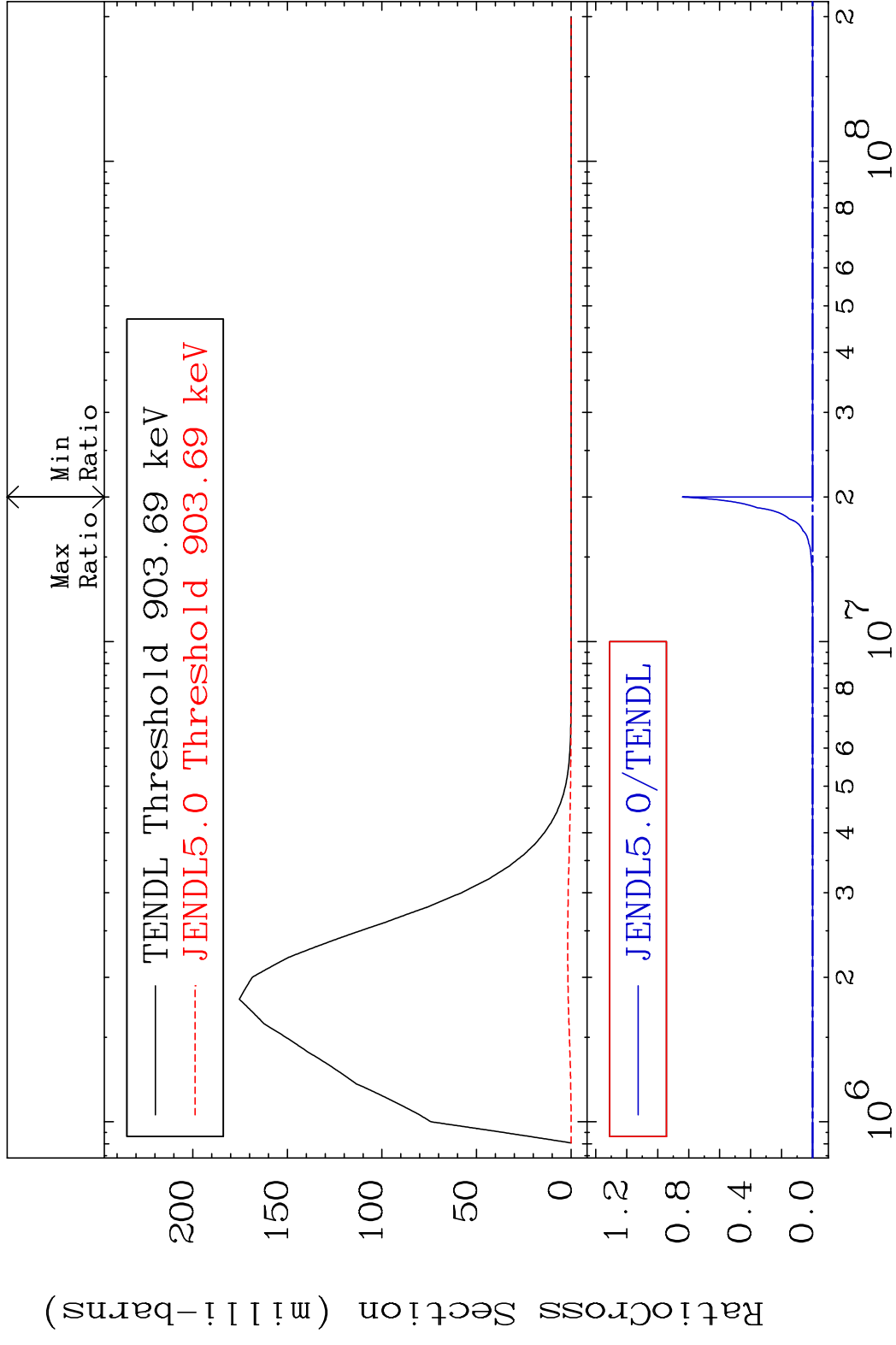


MAT 5641 MT= 62 (n, n') Level 56-Ba-135m  
 Cross Section -100.0 To 9999. %

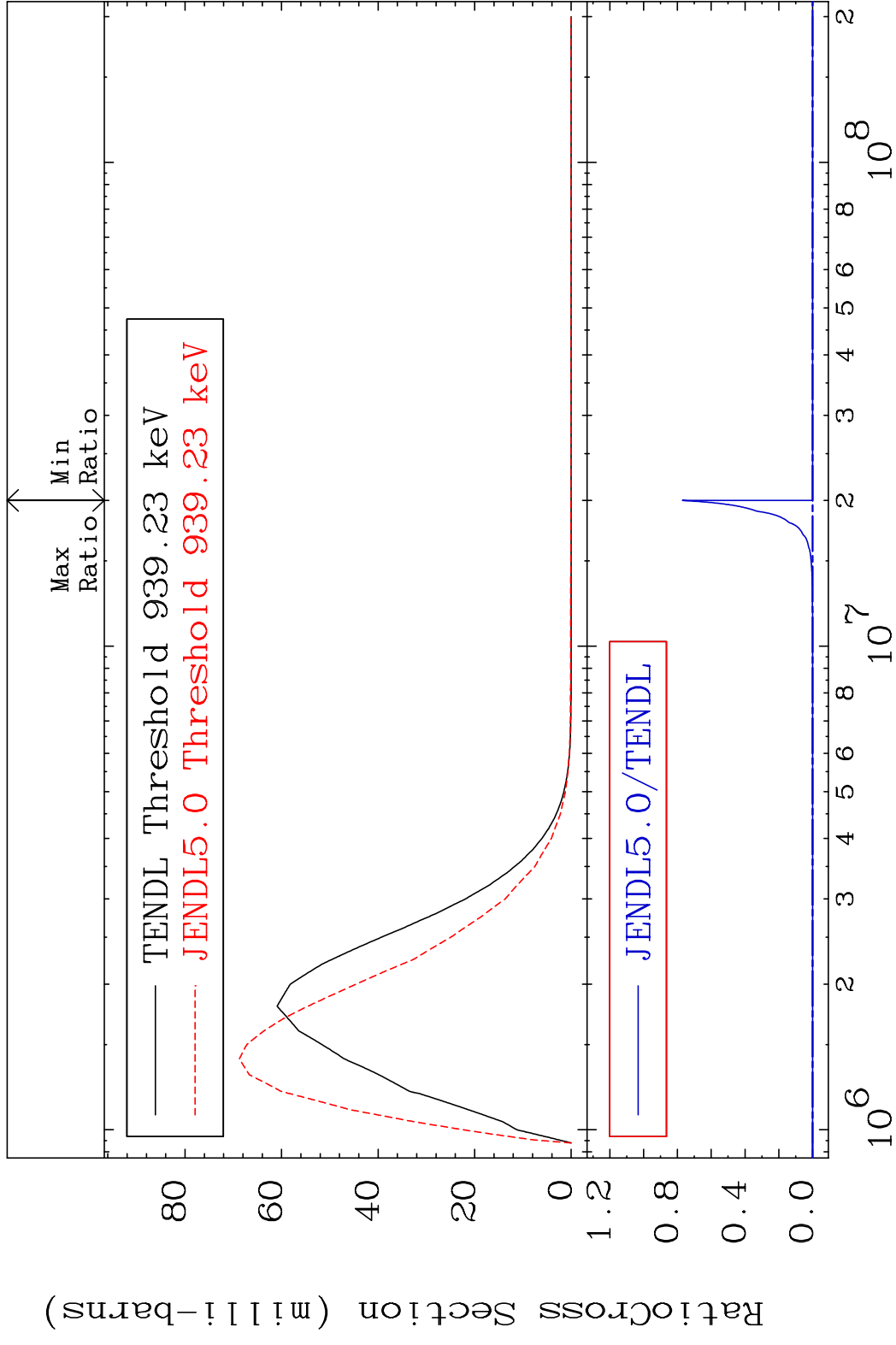




MAT 5641 MT= 63 (n, n') Level 56-Ba-135m  
 Cross Section -100.0 To 9999. %

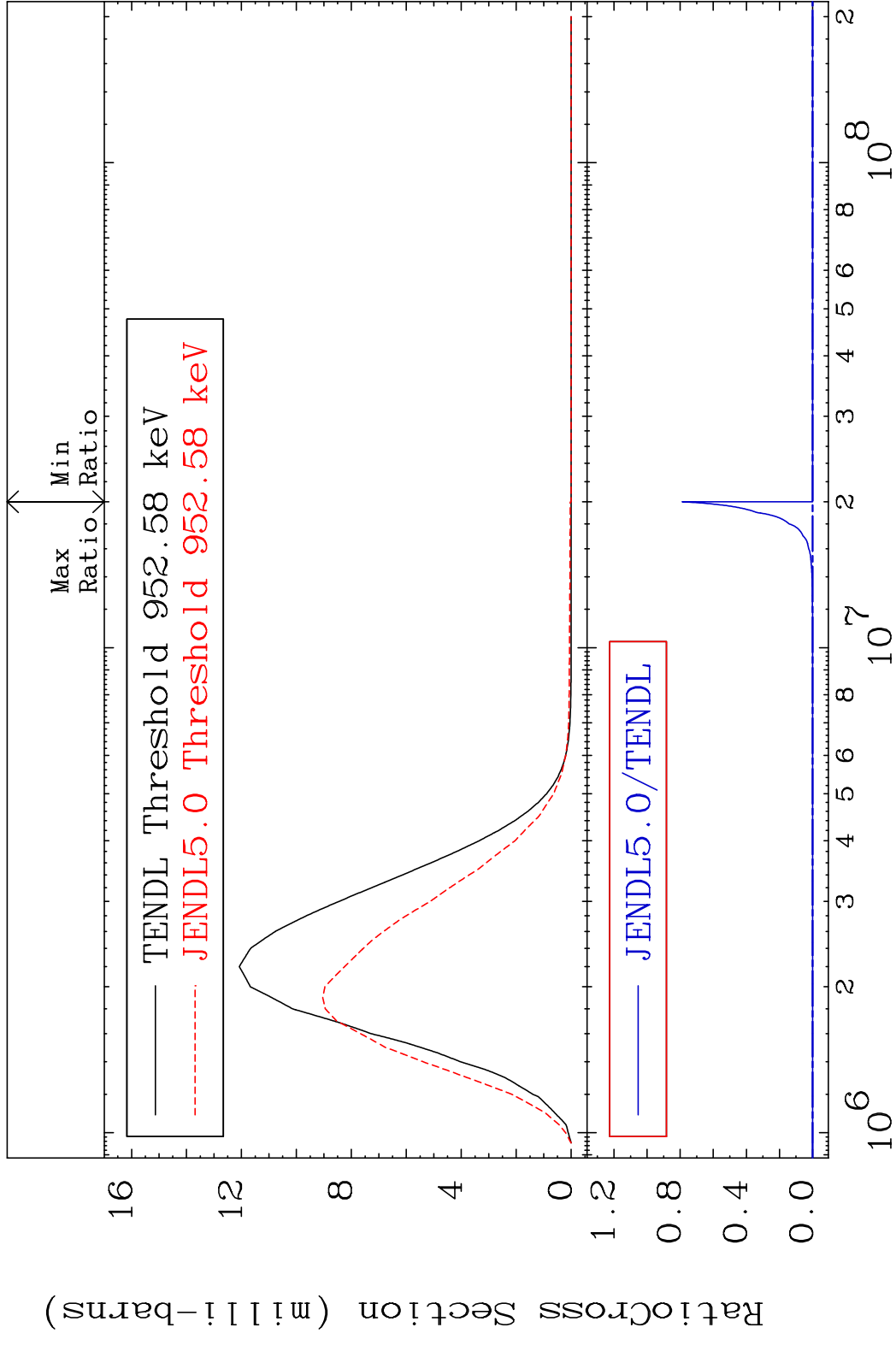


MAT 5641 MT= 64 (n, n') Level 56-Ba-135m  
 Cross Section -100.0 To 9999. %



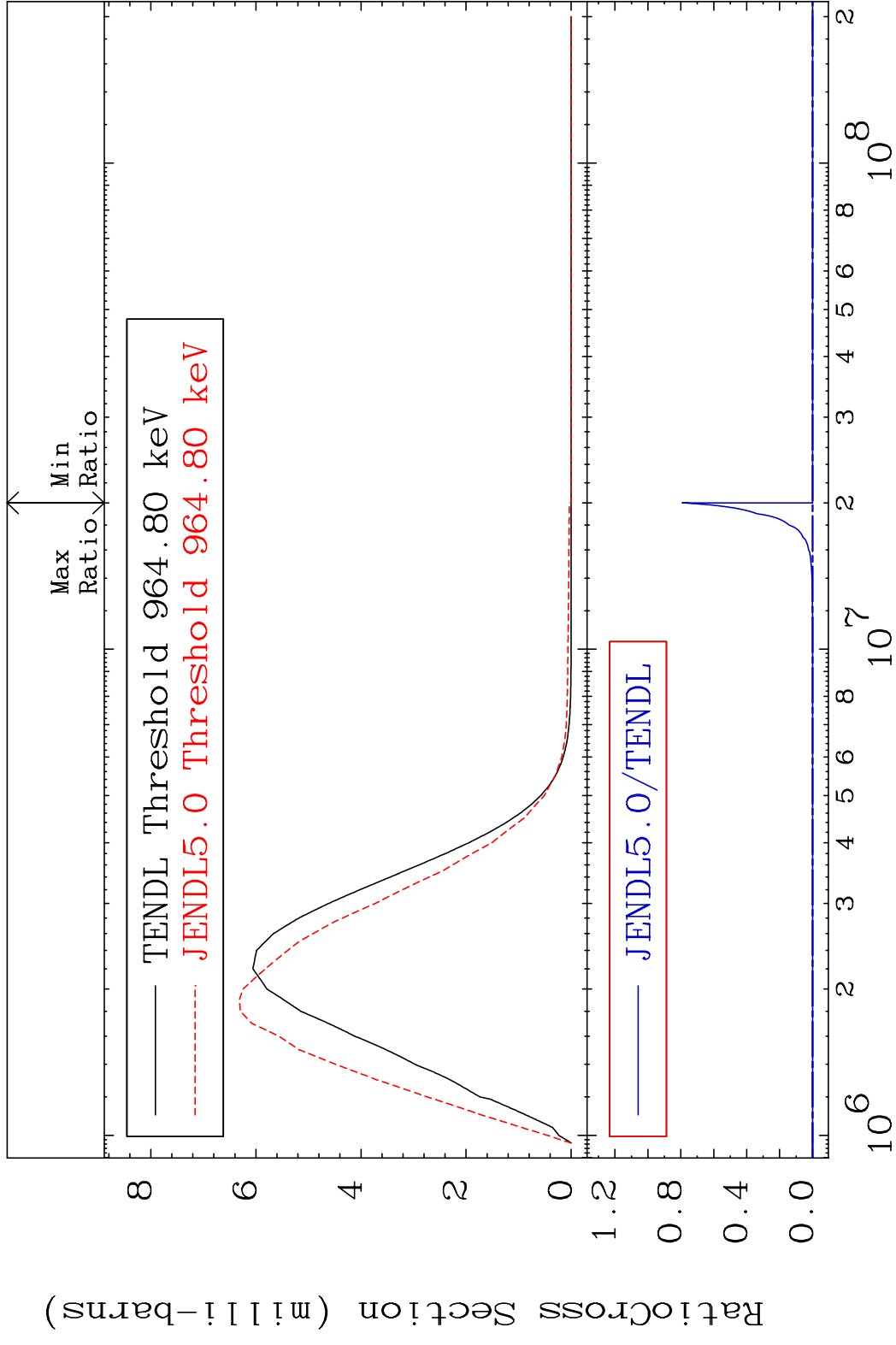
25 Incident Energy (eV) 56-Ba-135m

MAT 5641 MT= 65 (n, n') Level 56-Ba-135m  
 Cross Section -100.0 To 9999. %



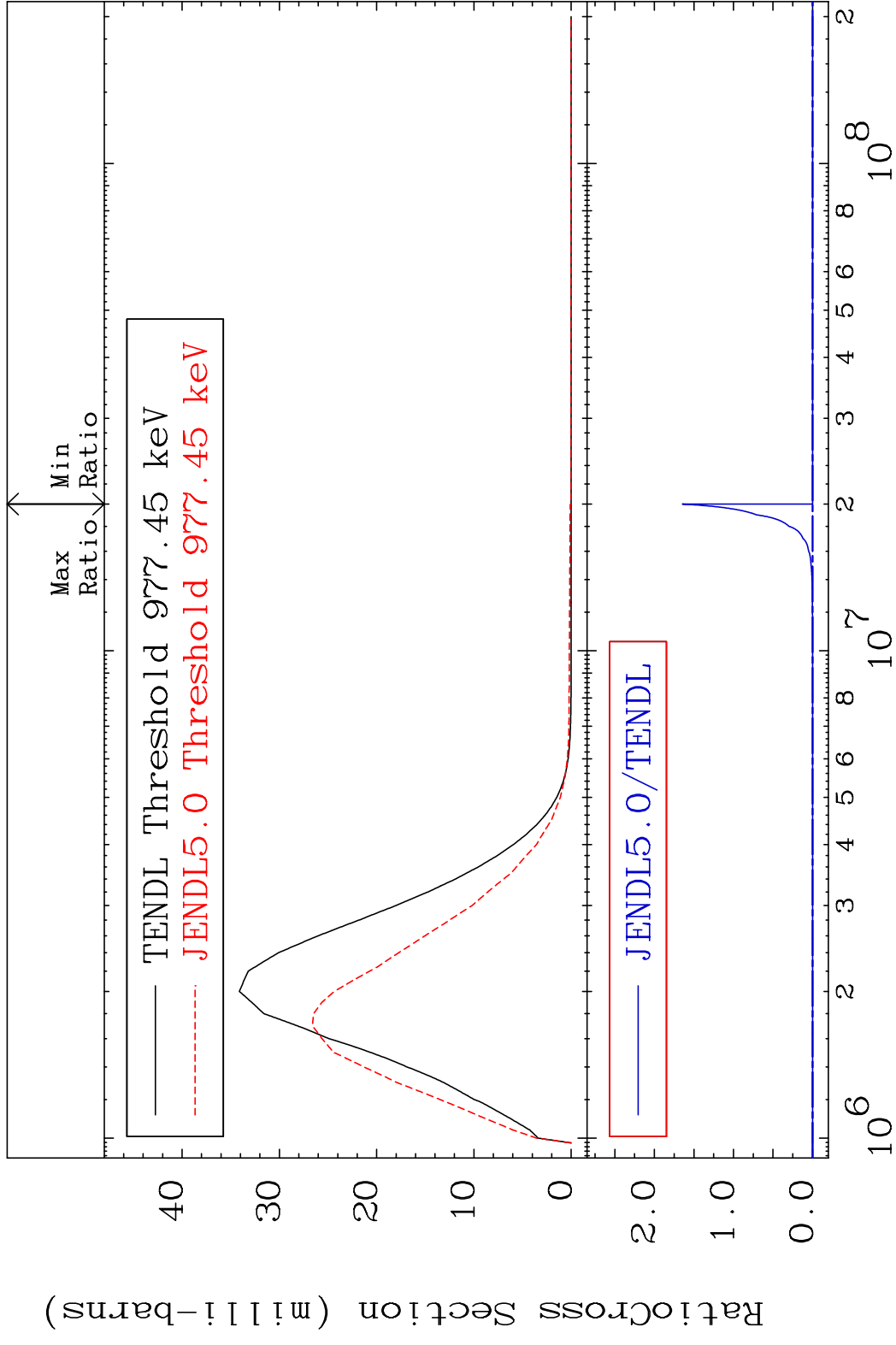
26 Incident Energy (eV) 56-Ba-135m

MAT 5641 MT= 66 (n, n') Level 56-Ba-135m  
 Cross Section -100.0 To 9999. %



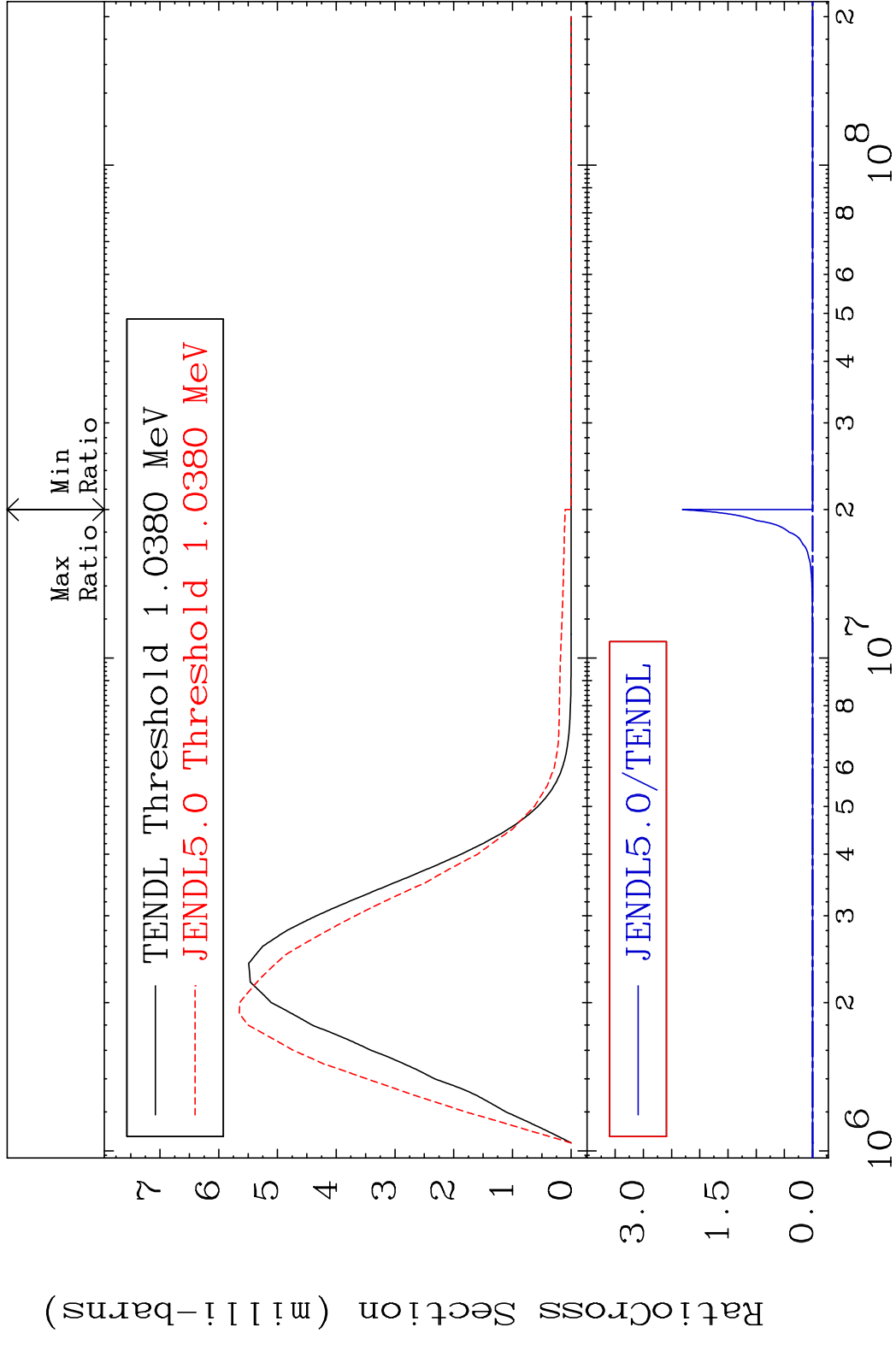
27 Incident Energy (eV) 56-Ba-135m

MAT 5641 MT= 67 (n, n') Level 56-Ba-135m  
 Cross Section -100.0 To 9999. %



28 Incident Energy (eV) 56-Ba-135m

MAT 5641 MT= 68 (n, n') Level 56-Ba-135m  
 Cross Section -100.0 To 9999. %



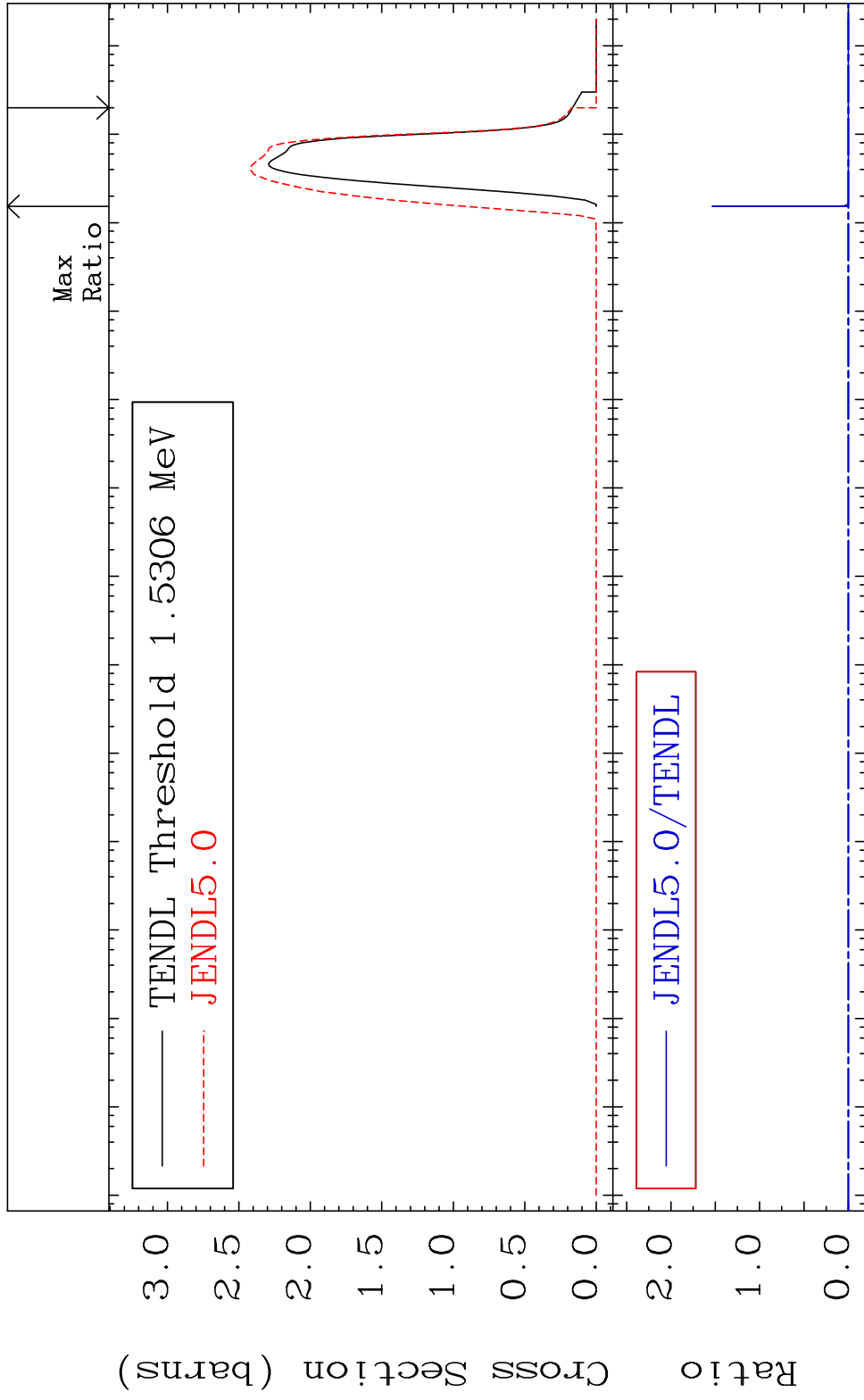
29 Incident Energy (eV) 56-Ba-135m

MAT 5641

(n, n') Continuum

56-Ba-135m

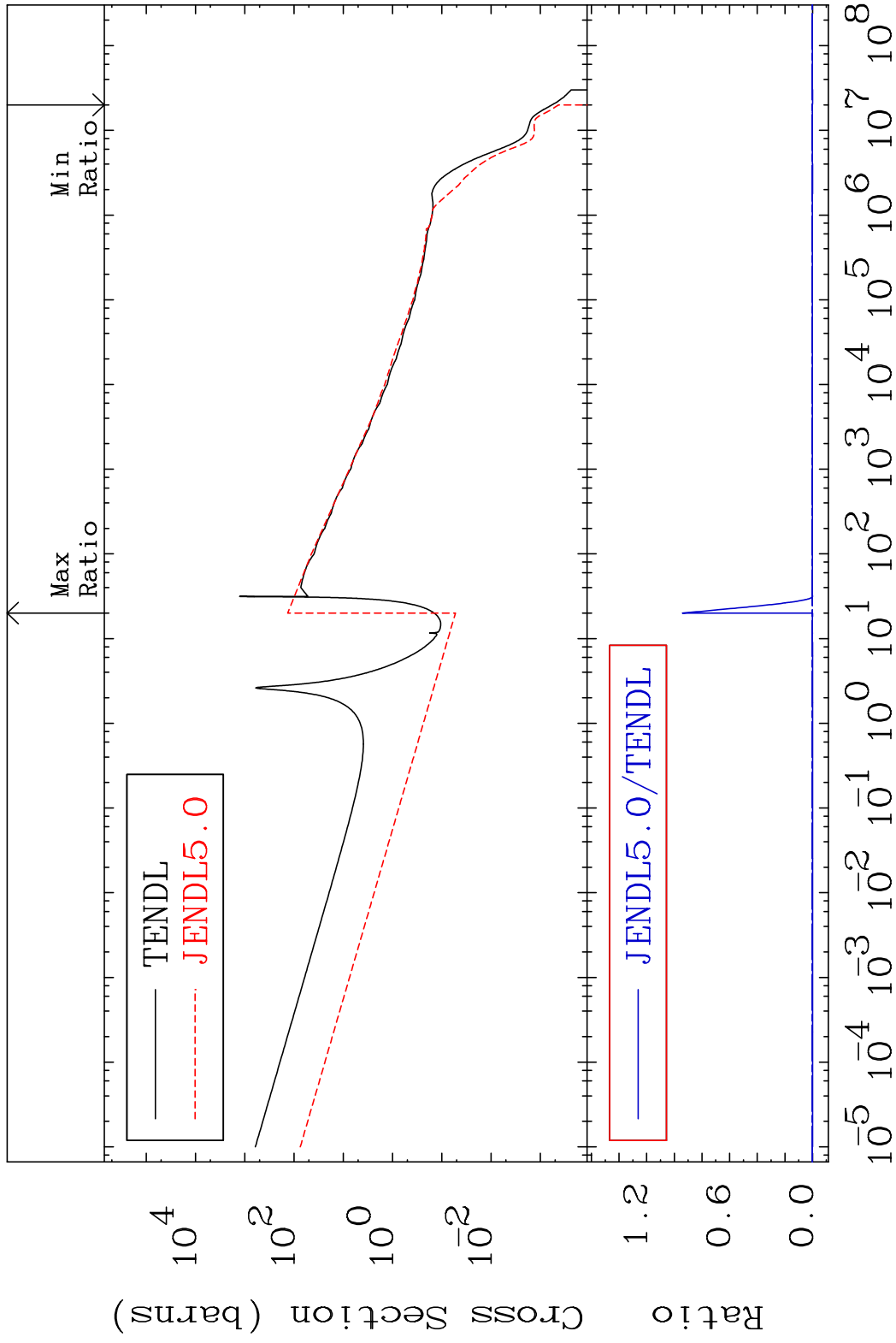
Cross Section -100.0 To 9999. %



30 Incident Energy (eV) 56-Ba-135m

MAT 5641

(n,  $\gamma$ )  
Cross Section -100.0 To 9999. %  
56-Ba-135m



31

Incident Energy (eV) 56-Ba-135m

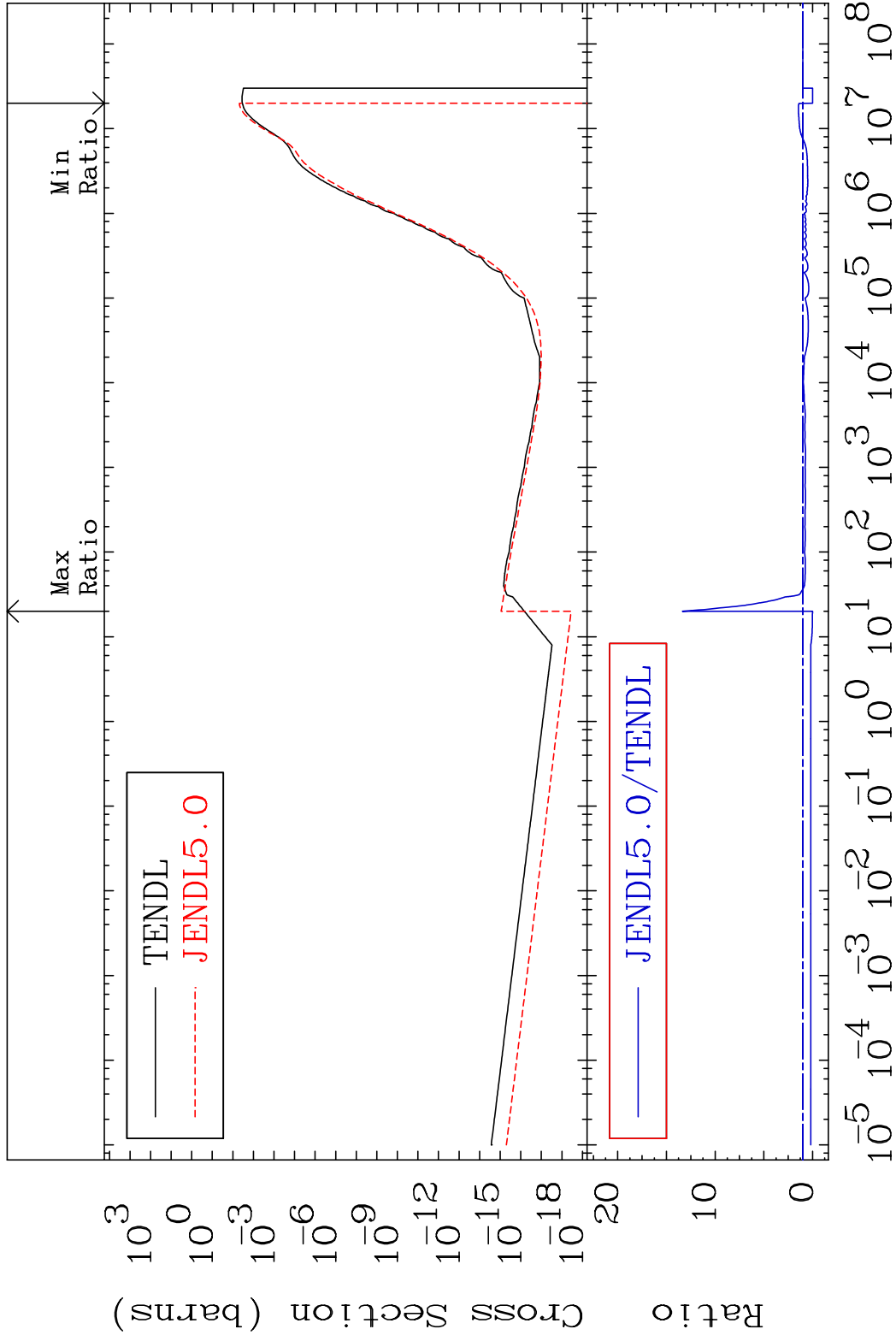


MAT 5641

(n, p)

56-Ba-135m

Cross Section -100.0 To 1236. %



32

Incident Energy (eV)

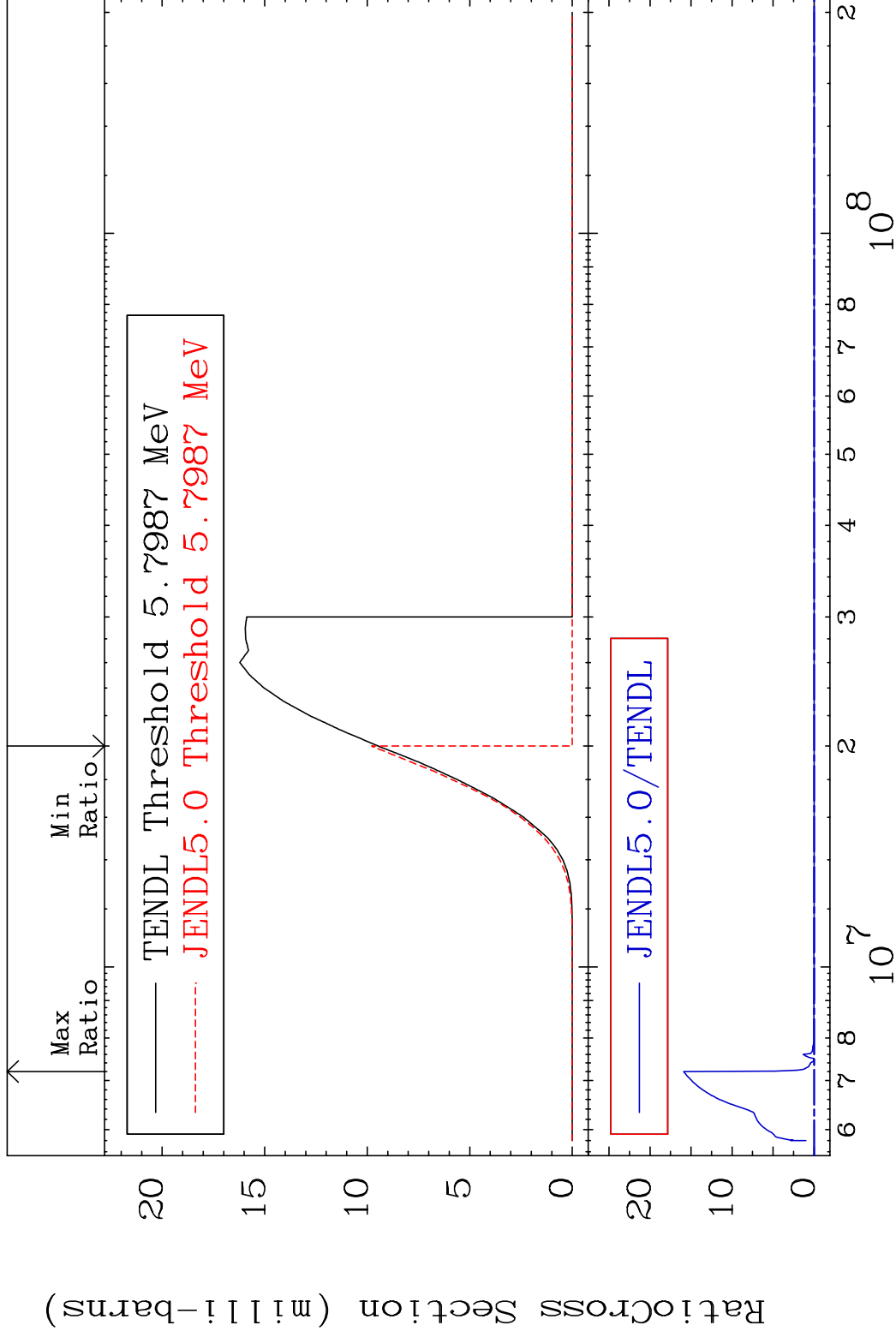
56-Ba-135m

MAT 5641

(n,d)

56-Ba-135m

Cross Section -100.0 To 9999. %



33

Incident Energy (eV)

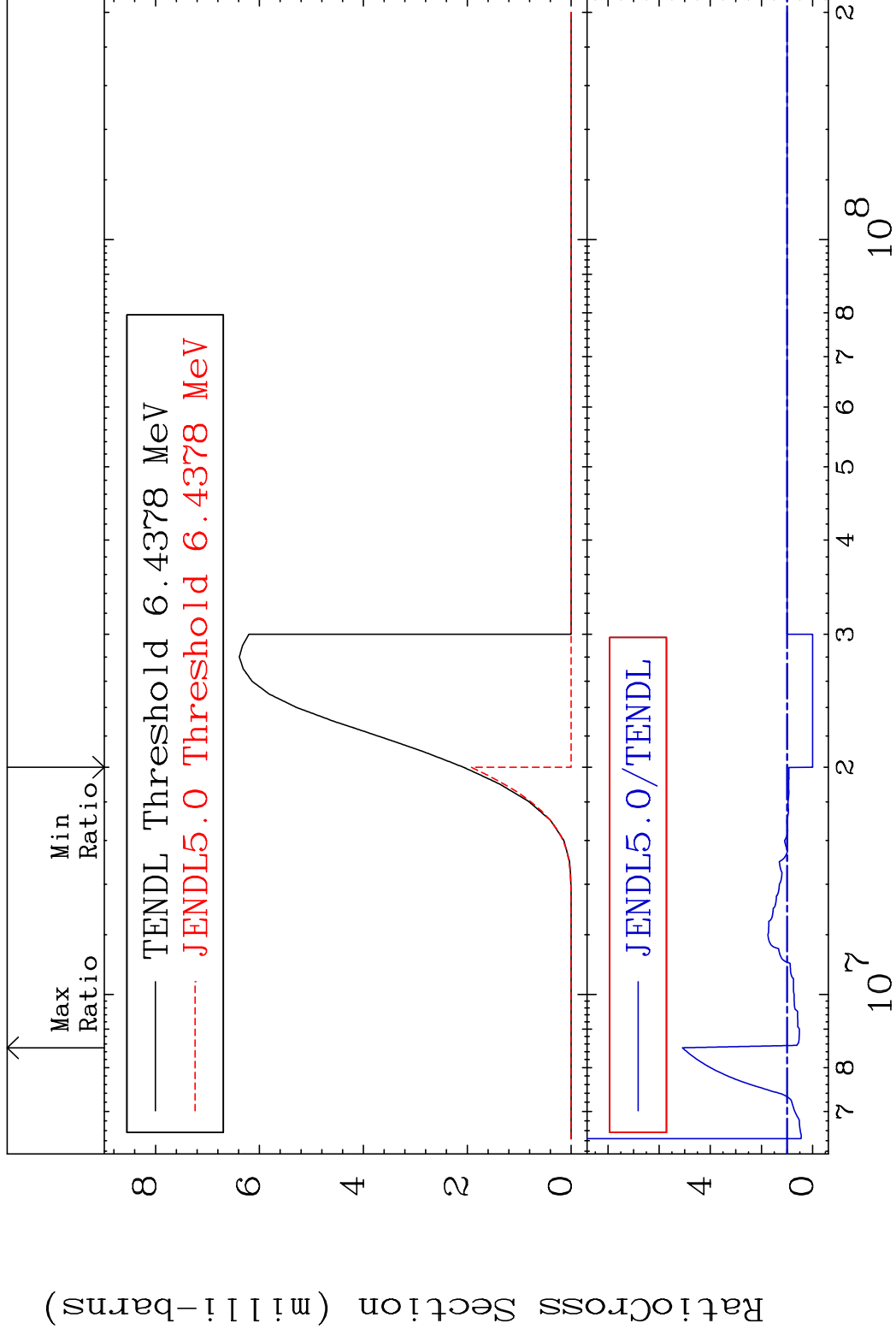
56-Ba-135m

MAT 5641

(n, t)

56-Ba-135m

Cross Section -100.0 To 409.2 %



34

Incident Energy (eV)

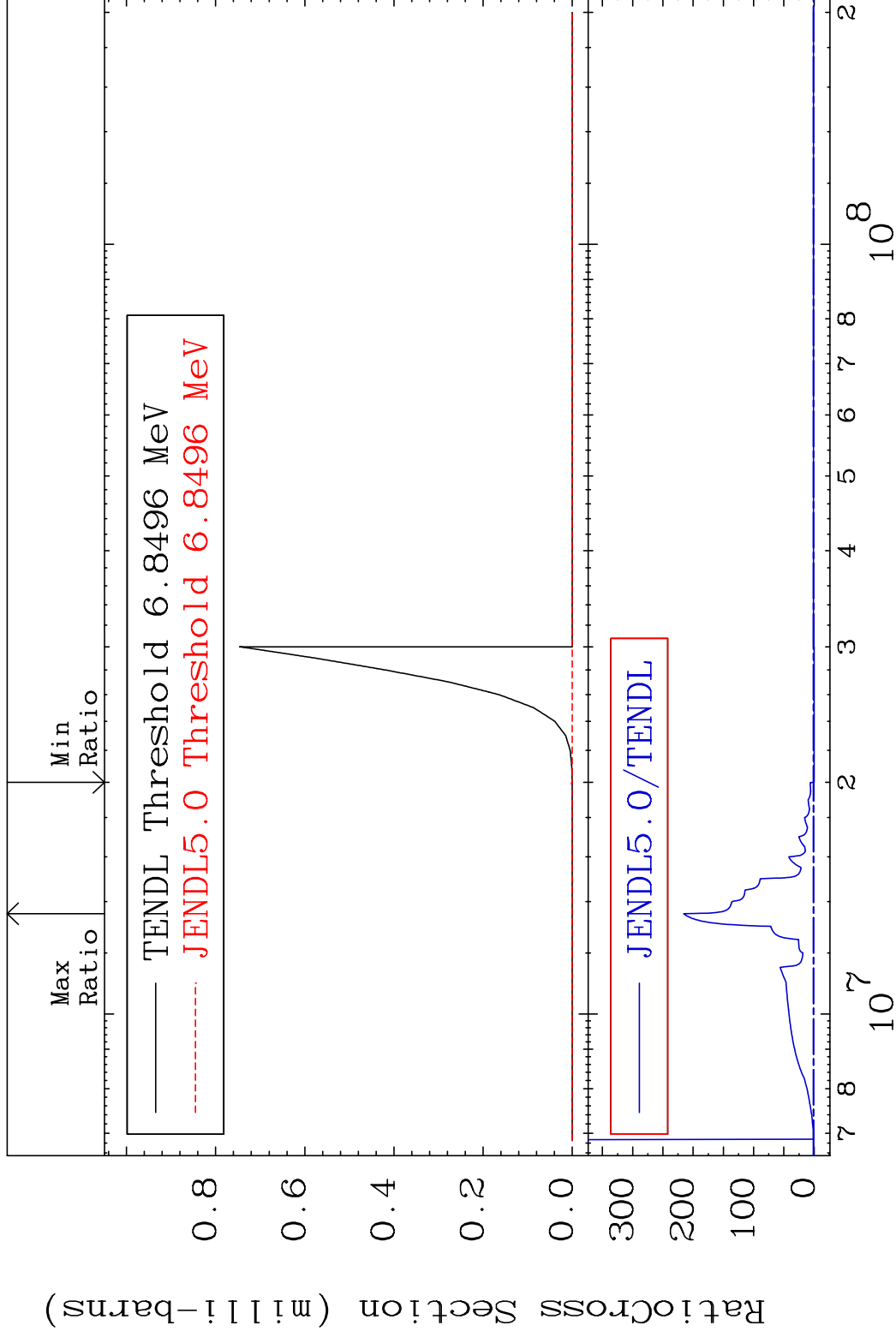
56-Ba-135m

MAT 5641

(n, He-3)

56-Ba-135m

Cross Section -100.0 To 9999. %



35

Incident Energy (eV)

56-Ba-135m

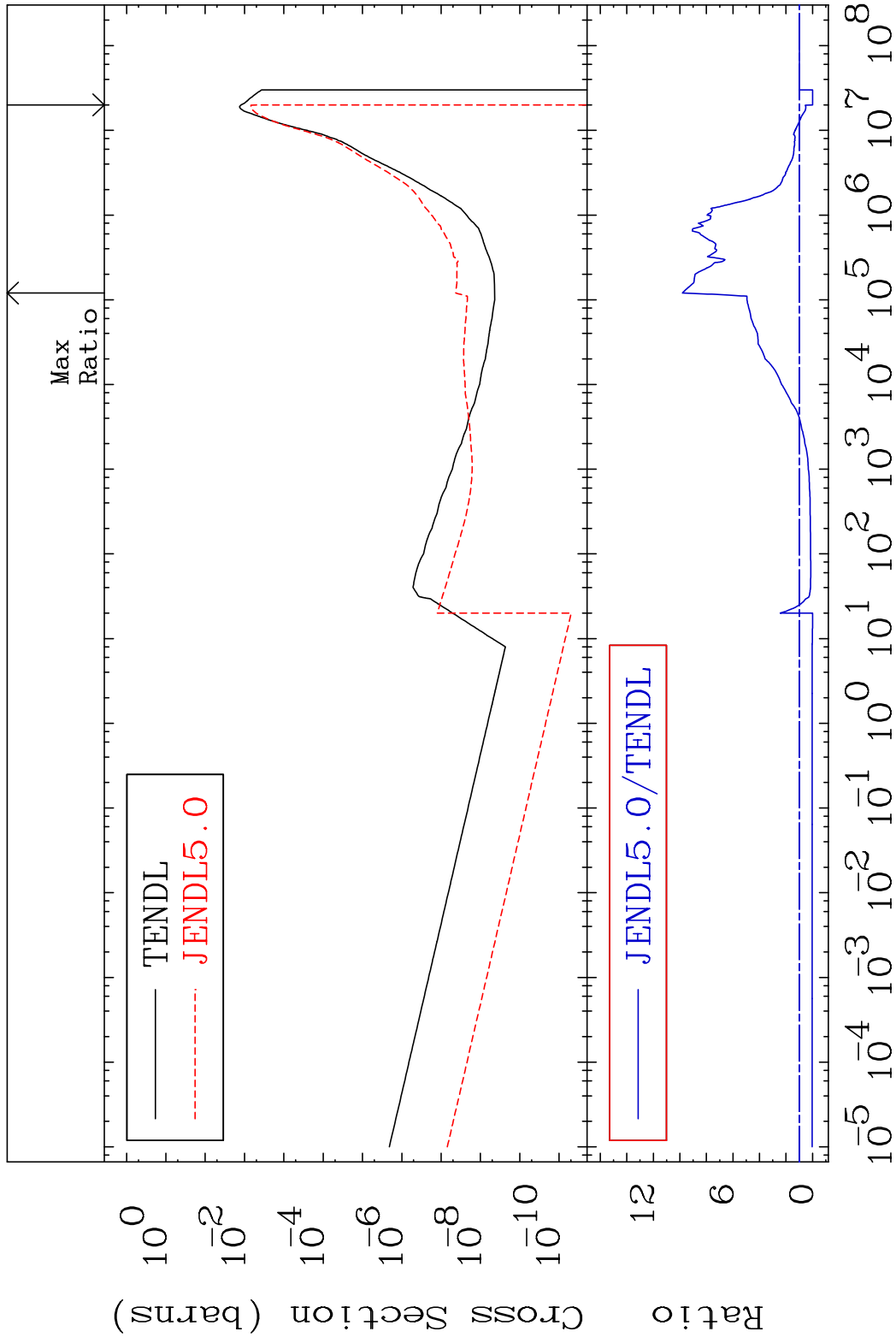
MAT 5641

(n,  $\alpha$ )

56-Ba-135m

Cross Section

-100.0 To 881.3 %

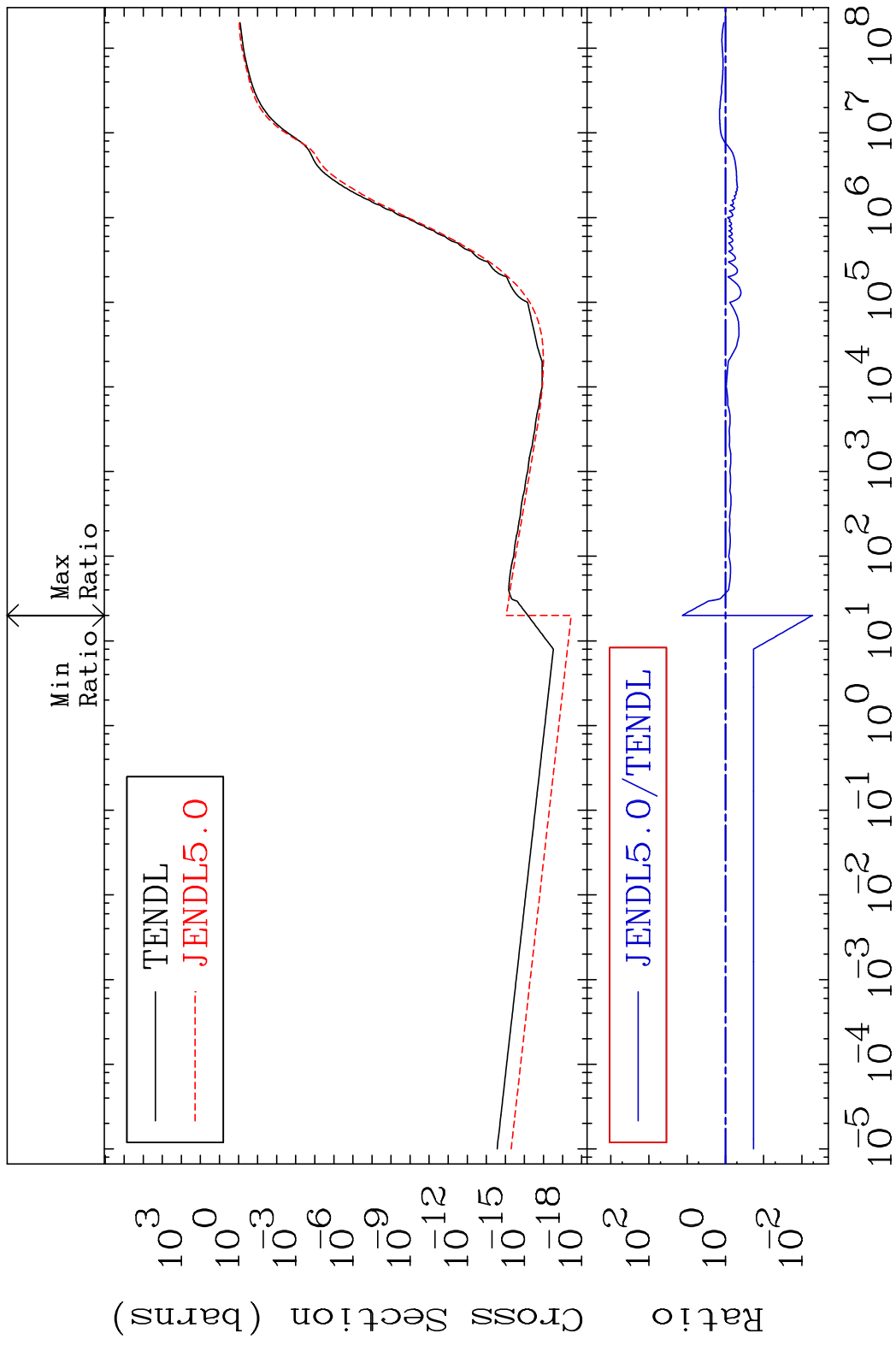


36

Incident Energy (eV)

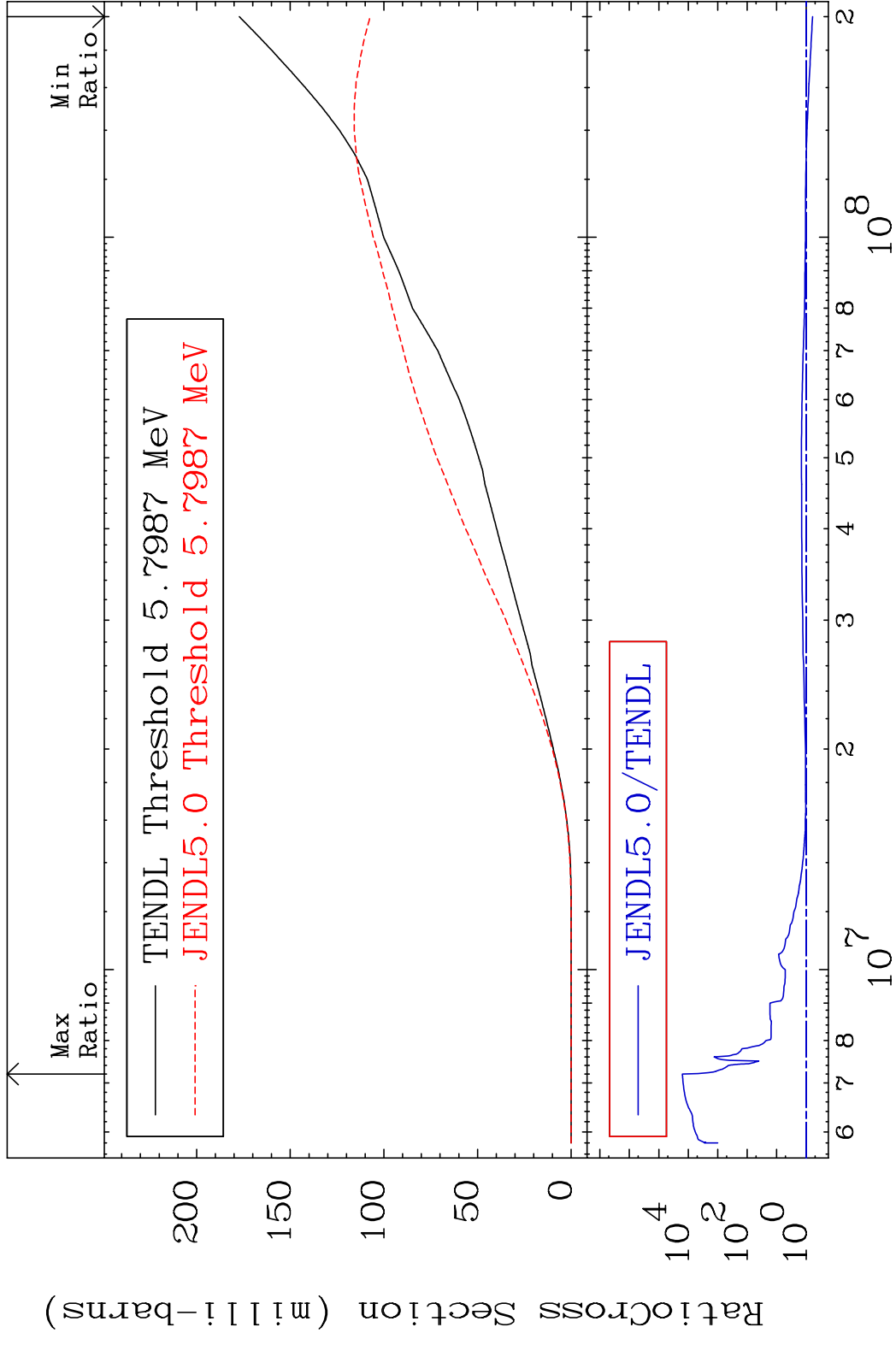
56-Ba-135m

MAT 5641 Hydrogen Production 56-Ba-135m  
 Cross Section -99.48 To 1236. %

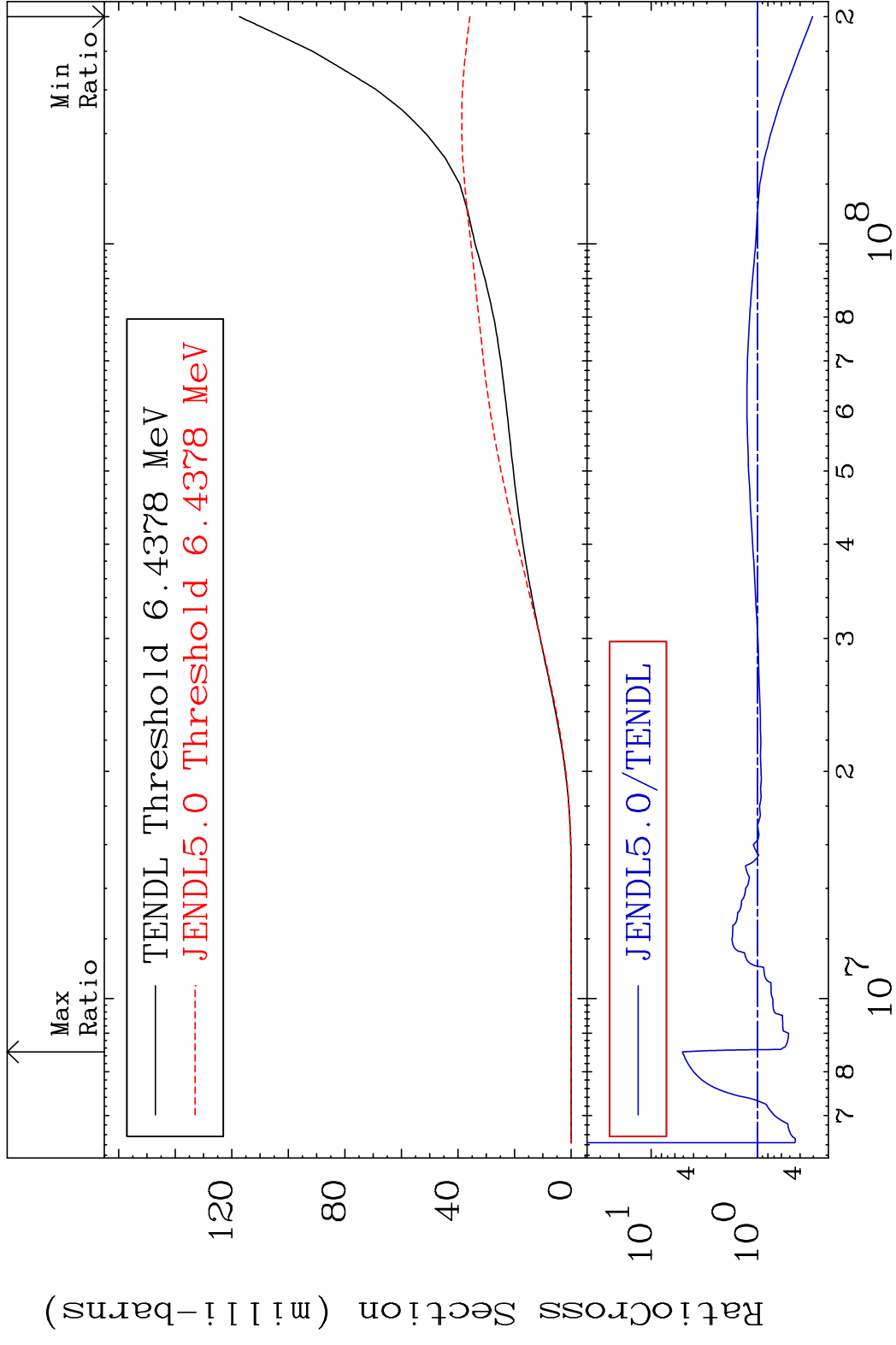


37 Incident Energy (eV) 56-Ba-135m

MAT 5641 Deuterium Production 56-Ba-135m  
 Cross Section -39.41 To 9999. %

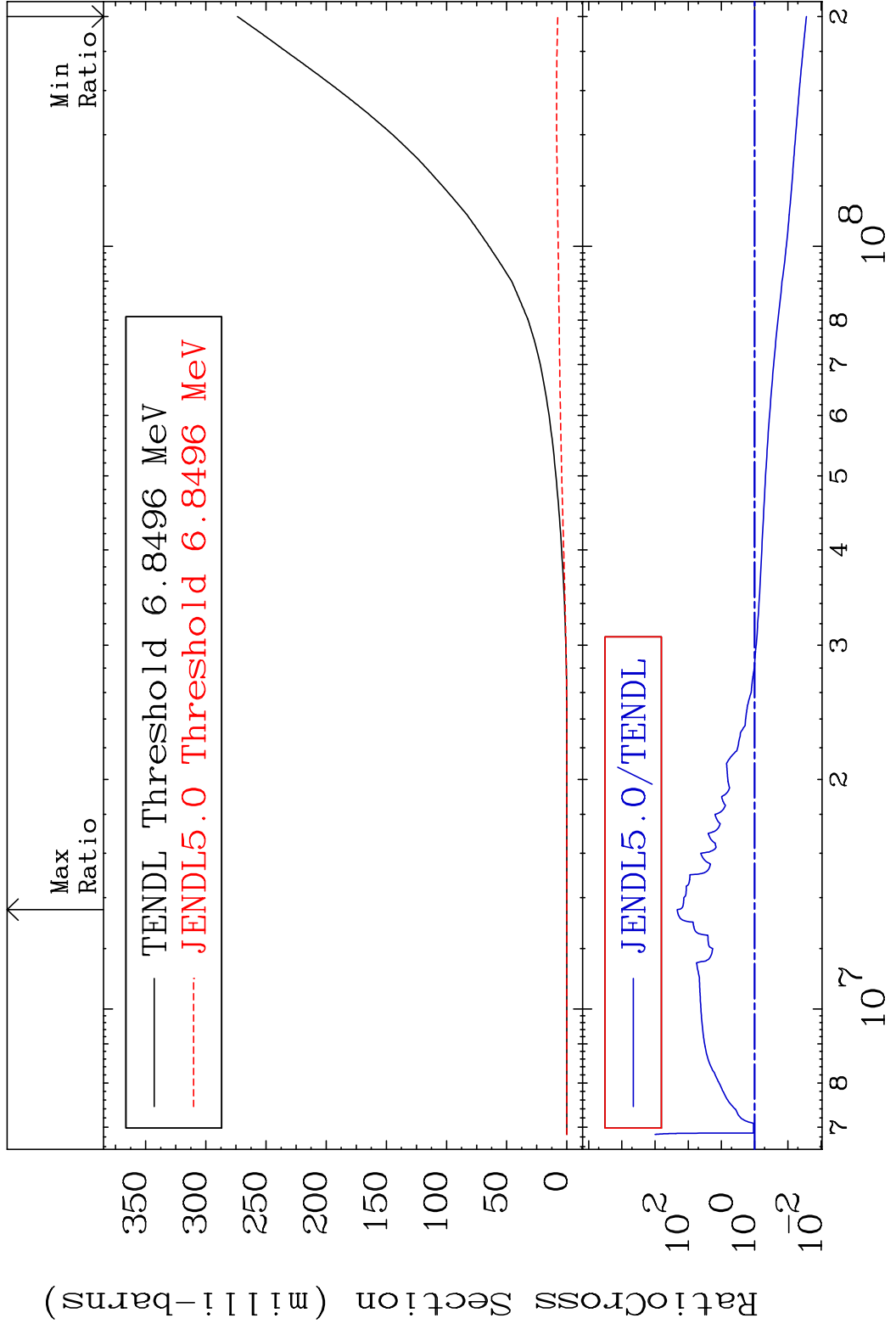


MAT 5641 Tritium Production 56-Ba-135m  
 Cross Section -69.50 To 409.2 %





MAT 5641 He-3 Production 56-Ba-135m  
 Cross Section -97.23 To 9999. %



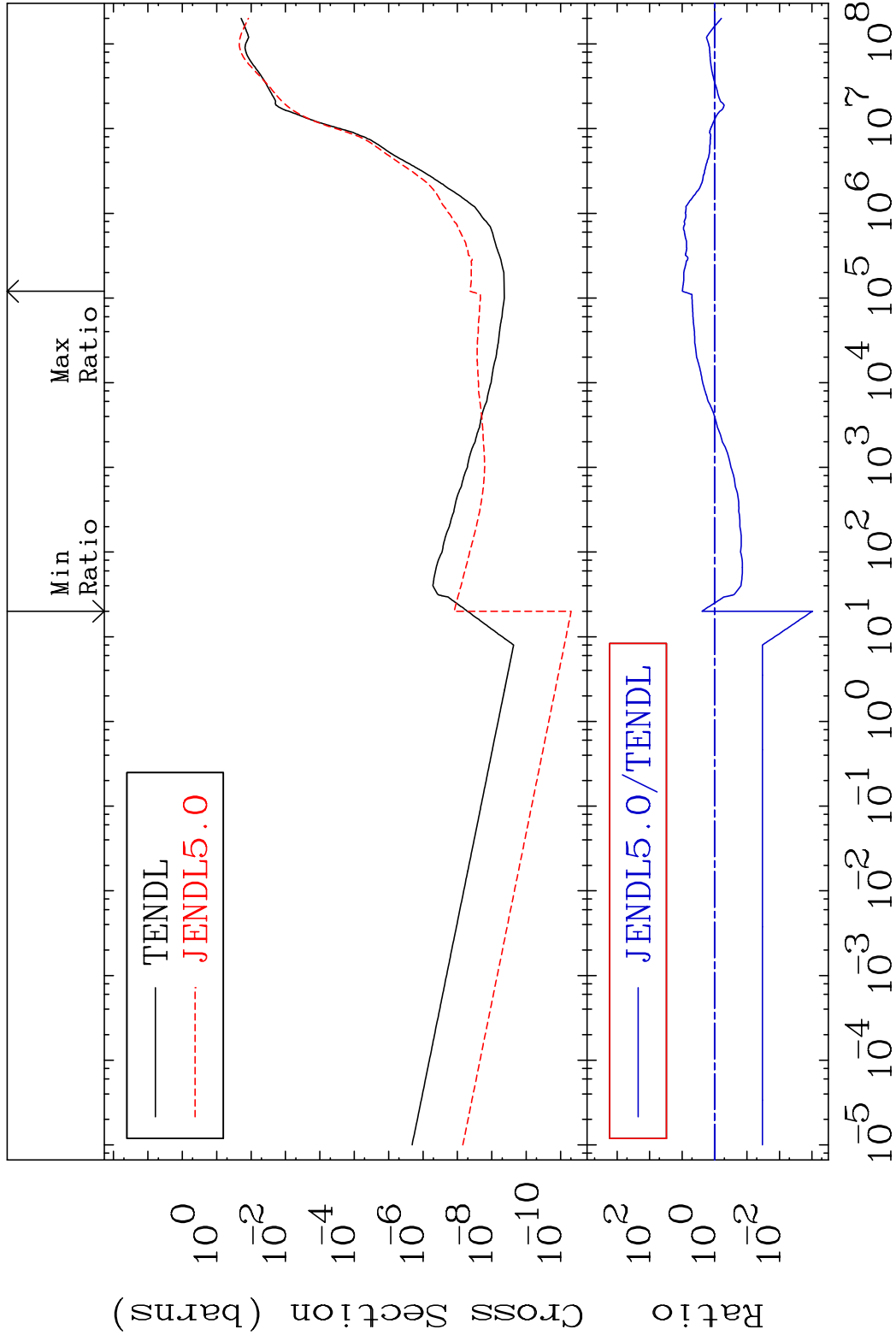
40 Incident Energy (eV) 56-Ba-135m

MAT 5641

He-4 Production

56-Ba-135m

Cross Section -99.90 To 881.3 %

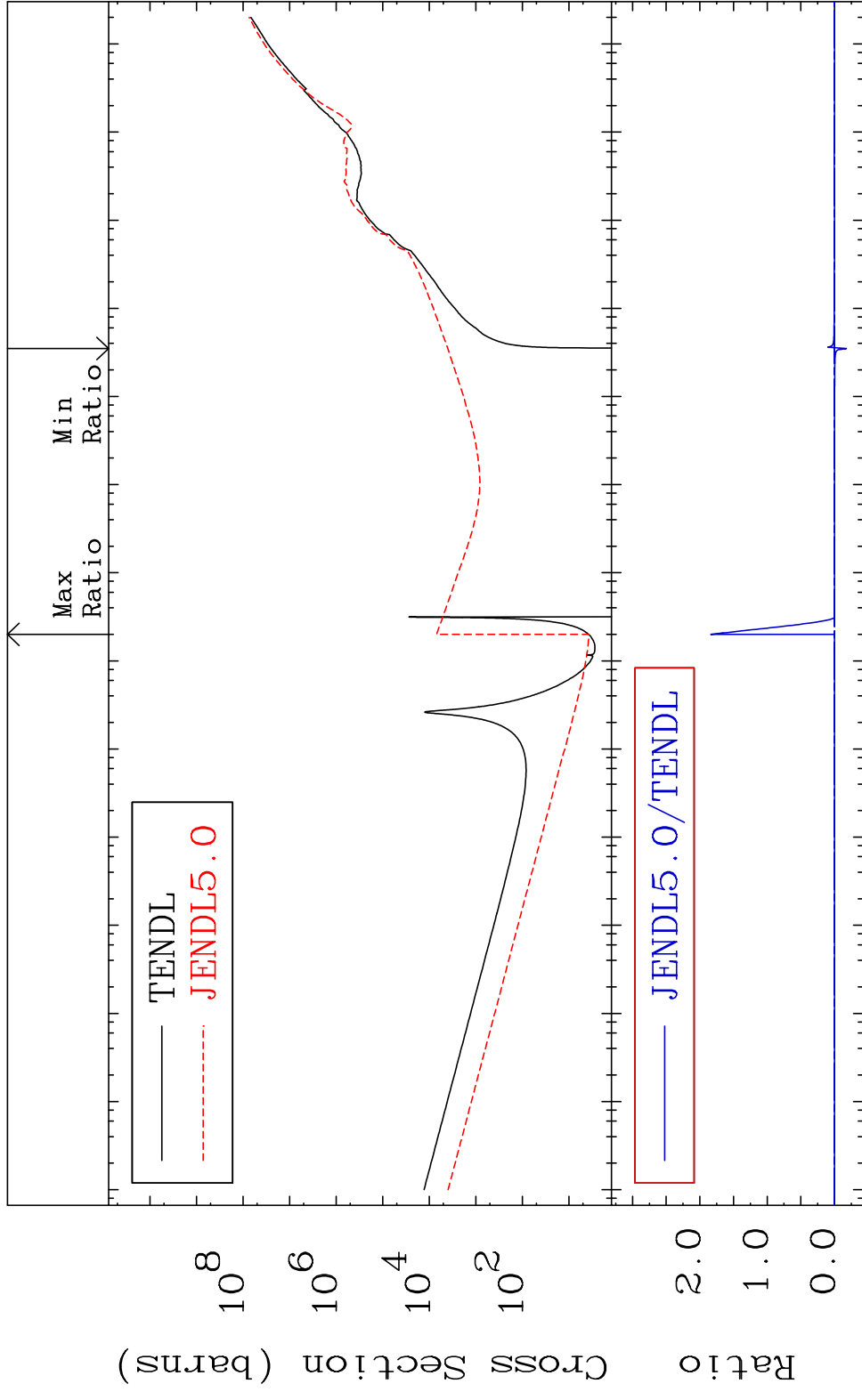


41

Incident Energy (eV)

56-Ba-135m

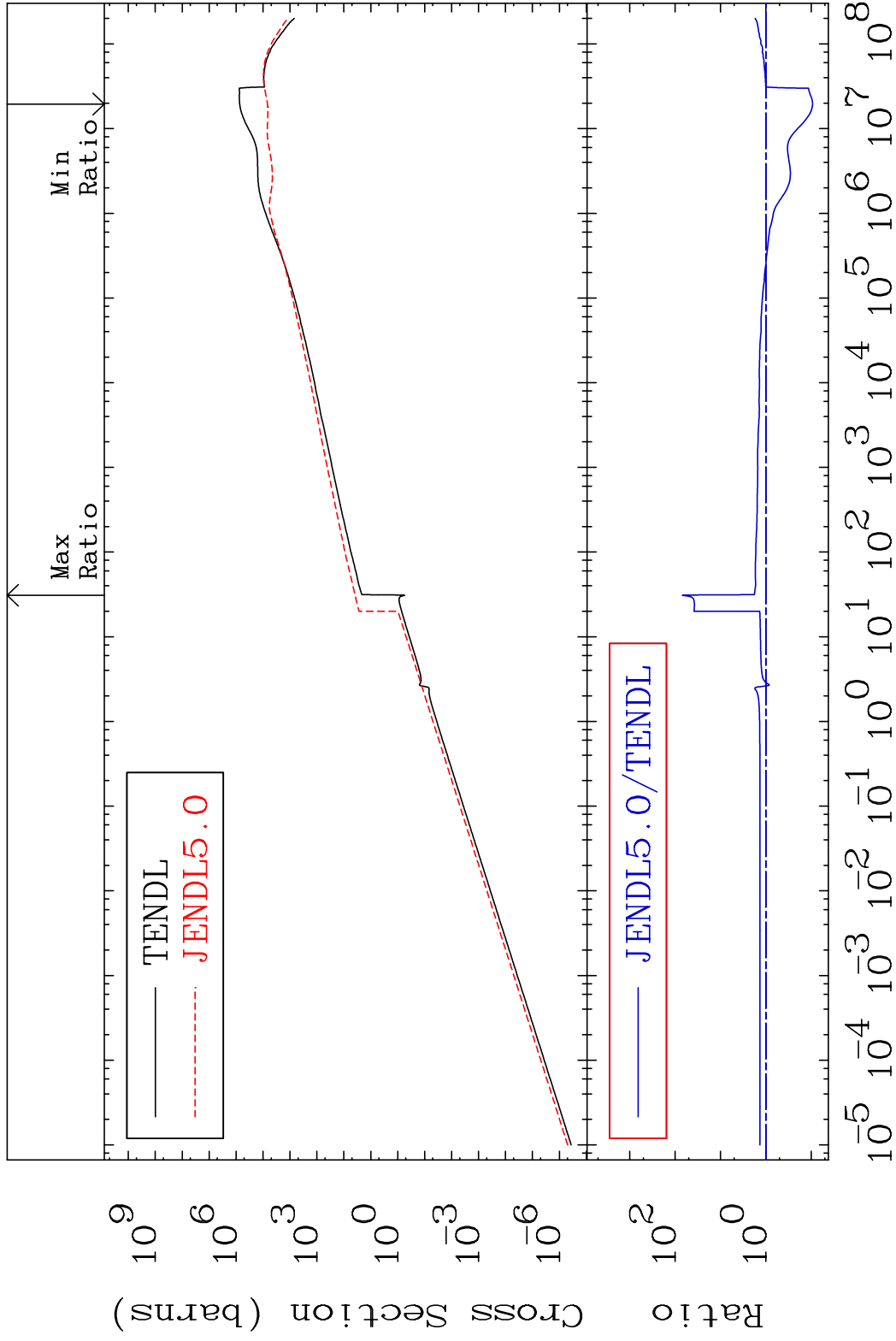
MAT 5641 Kerma total (eV-barns) 56-Ba-135m  
 Cross Section -9999. To 9999. %



42 Incident Energy (eV) 56-Ba-135m

MAT 5641

Kerma elastic Cross Section -90.65 To 6832. %  
56-Ba-135m

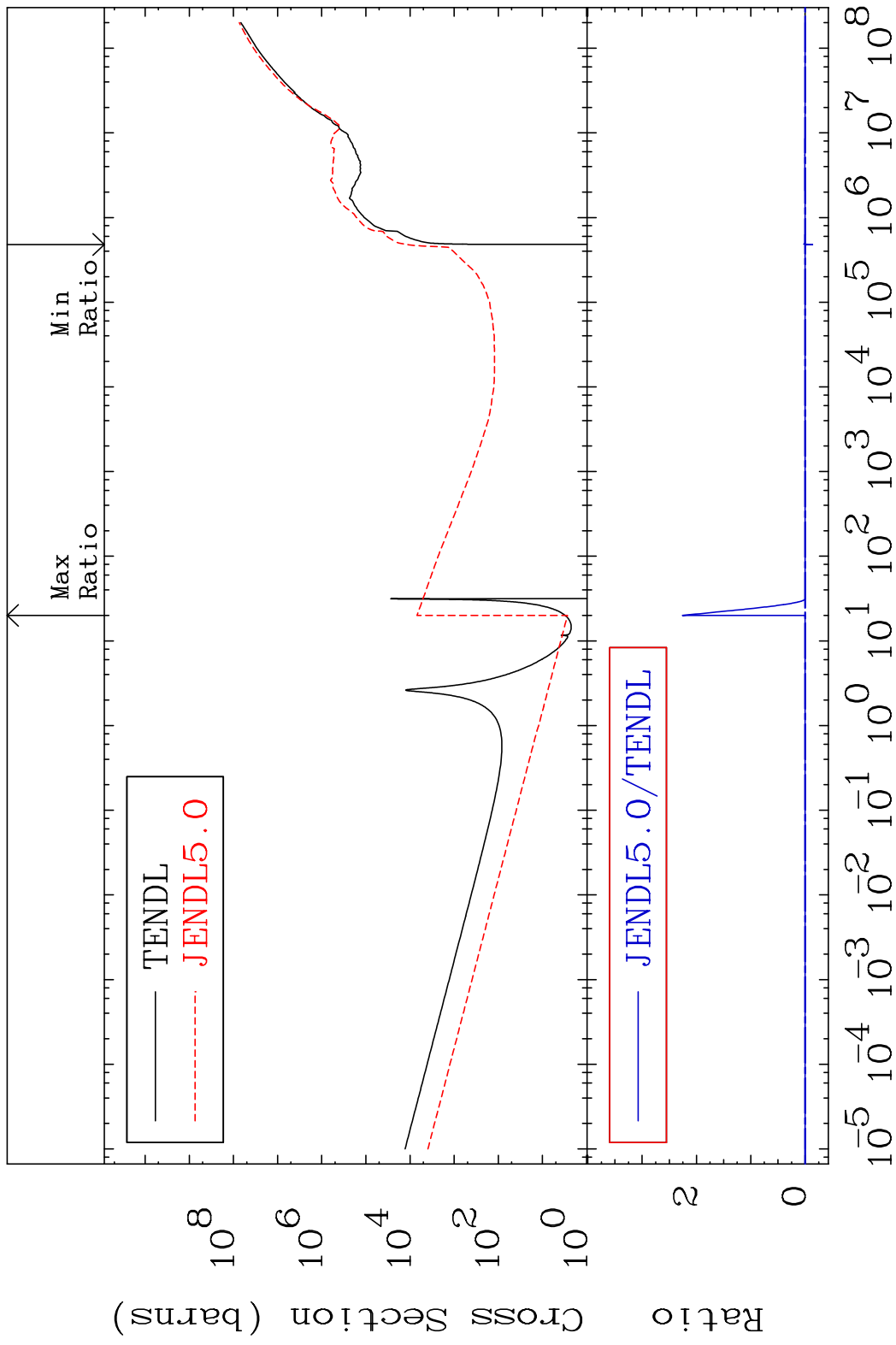


43

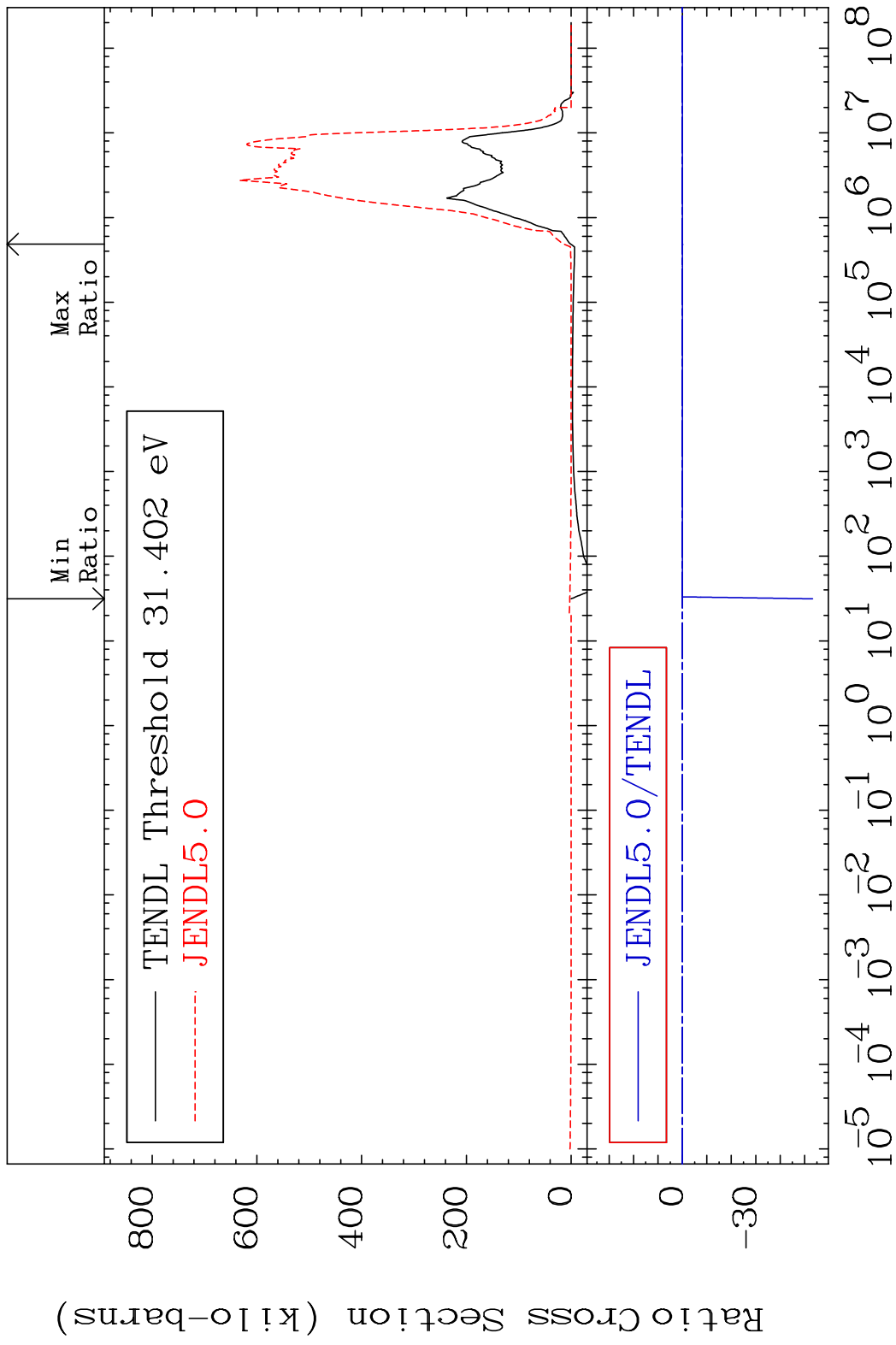
Incident Energy (eV)

56-Ba-135m

MAT 5641 Kerma non-elastic (all but mt2) 56-Ba-135m  
 Cross Section -9999. To 9999. %

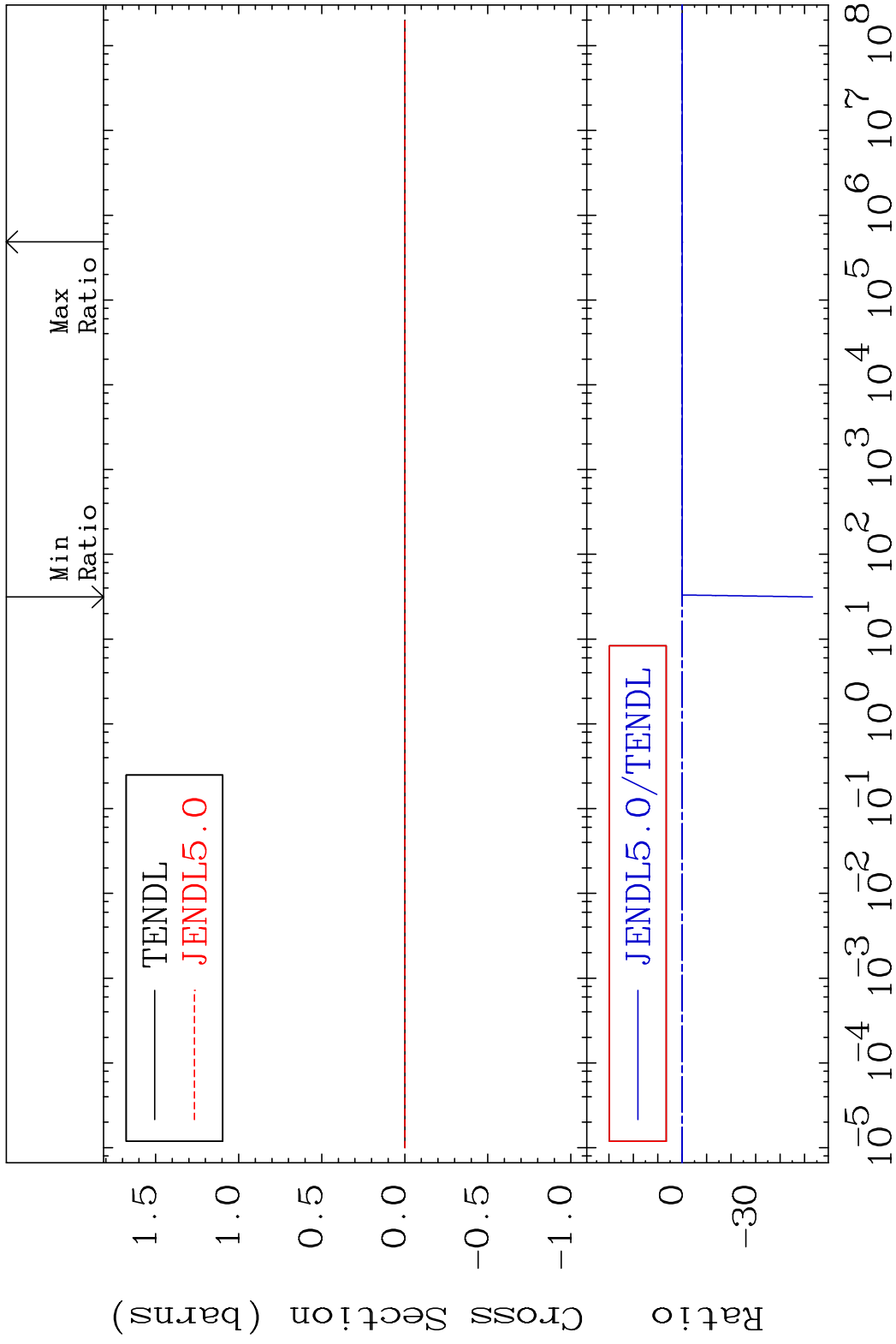


MAT 5641 Kerma inelastic (mt51-91) 56-Ba-135m  
Cross Section -9999. To 2357. %

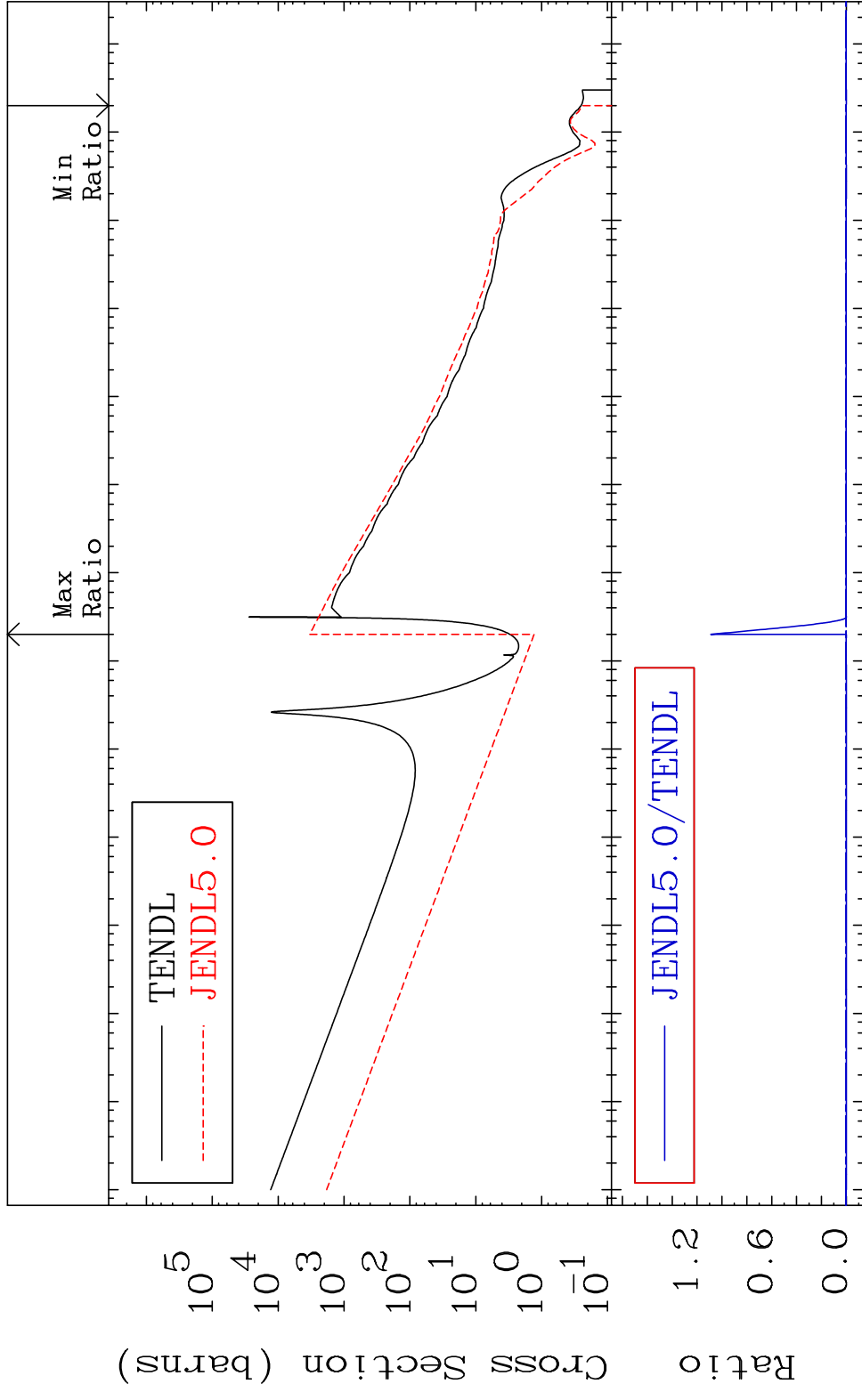


45 Incident Energy (eV) 56-Ba-135m

MAT 5641 Kerma fission (mt18 or mt19-20-21-356-Ba-135m  
 Cross Section -9999. To 2357. %



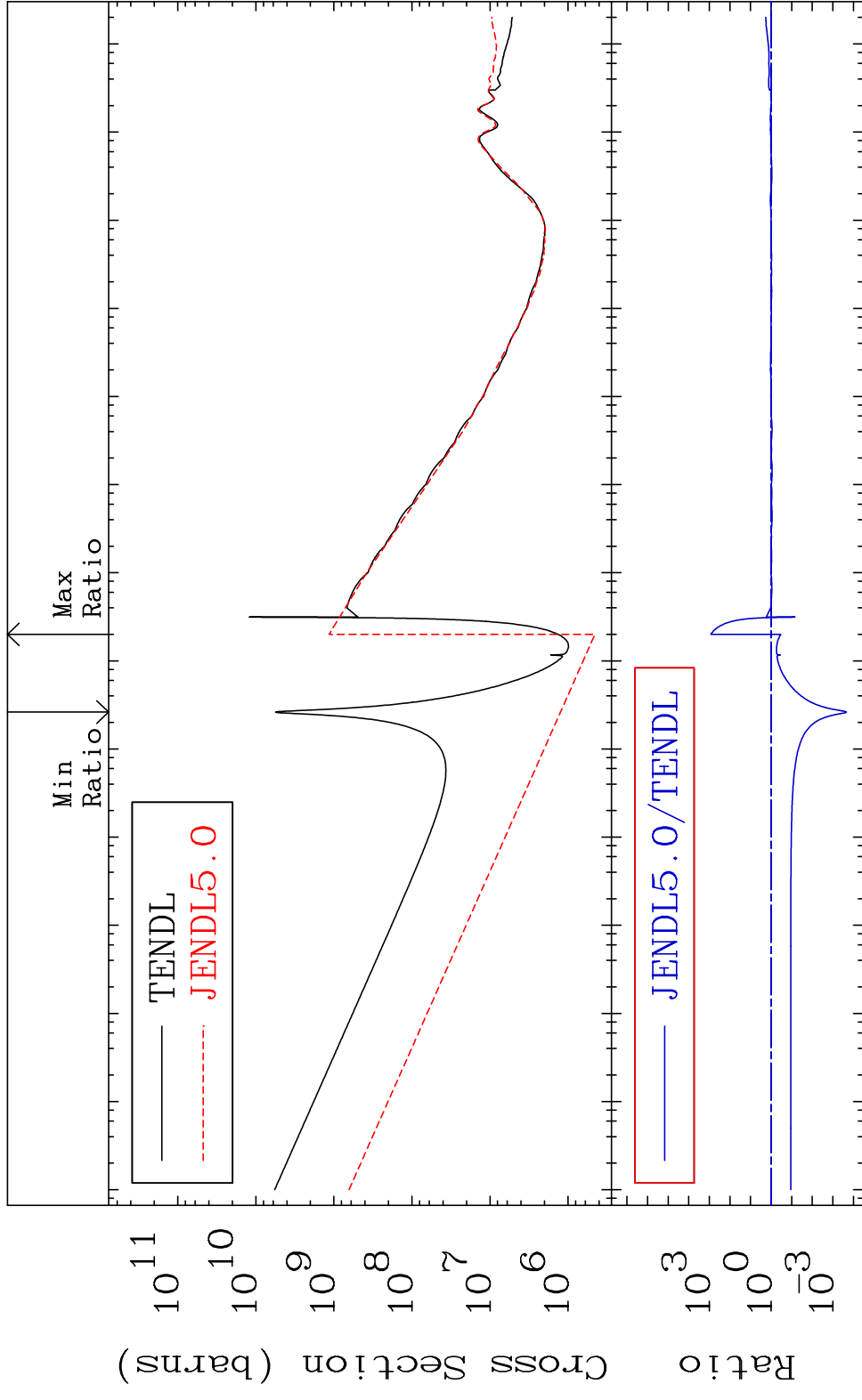
MAT 5641 Kerma capture (mt102) 56-Ba-135m  
 Cross Section -100.0 To 9999. %



47 Incident Energy (eV) 56-Ba-135m

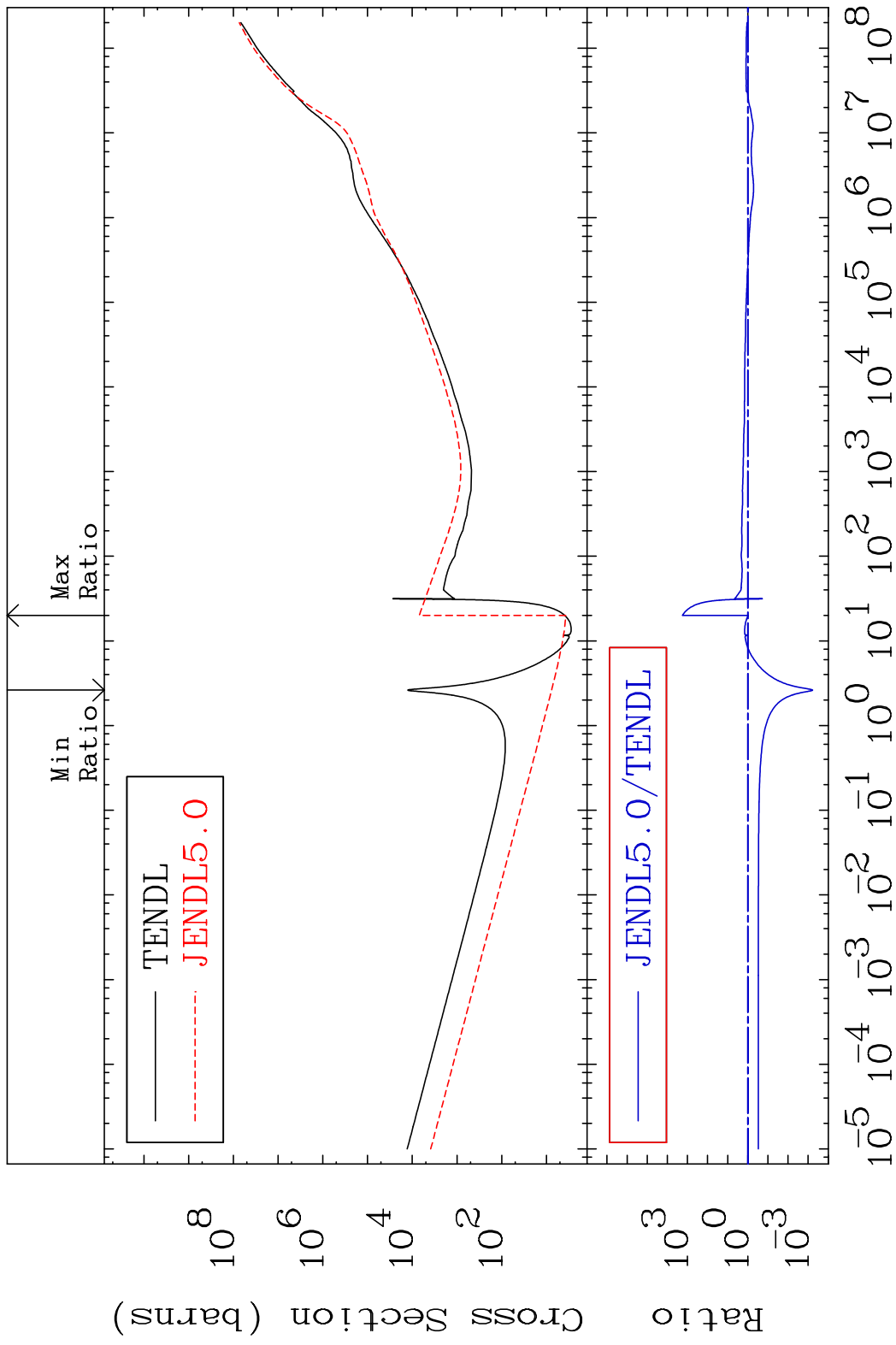


MAT 5641 Total photon (eV-barns) 56-Ba-135m  
 Cross Section -99.98 To 9999. %

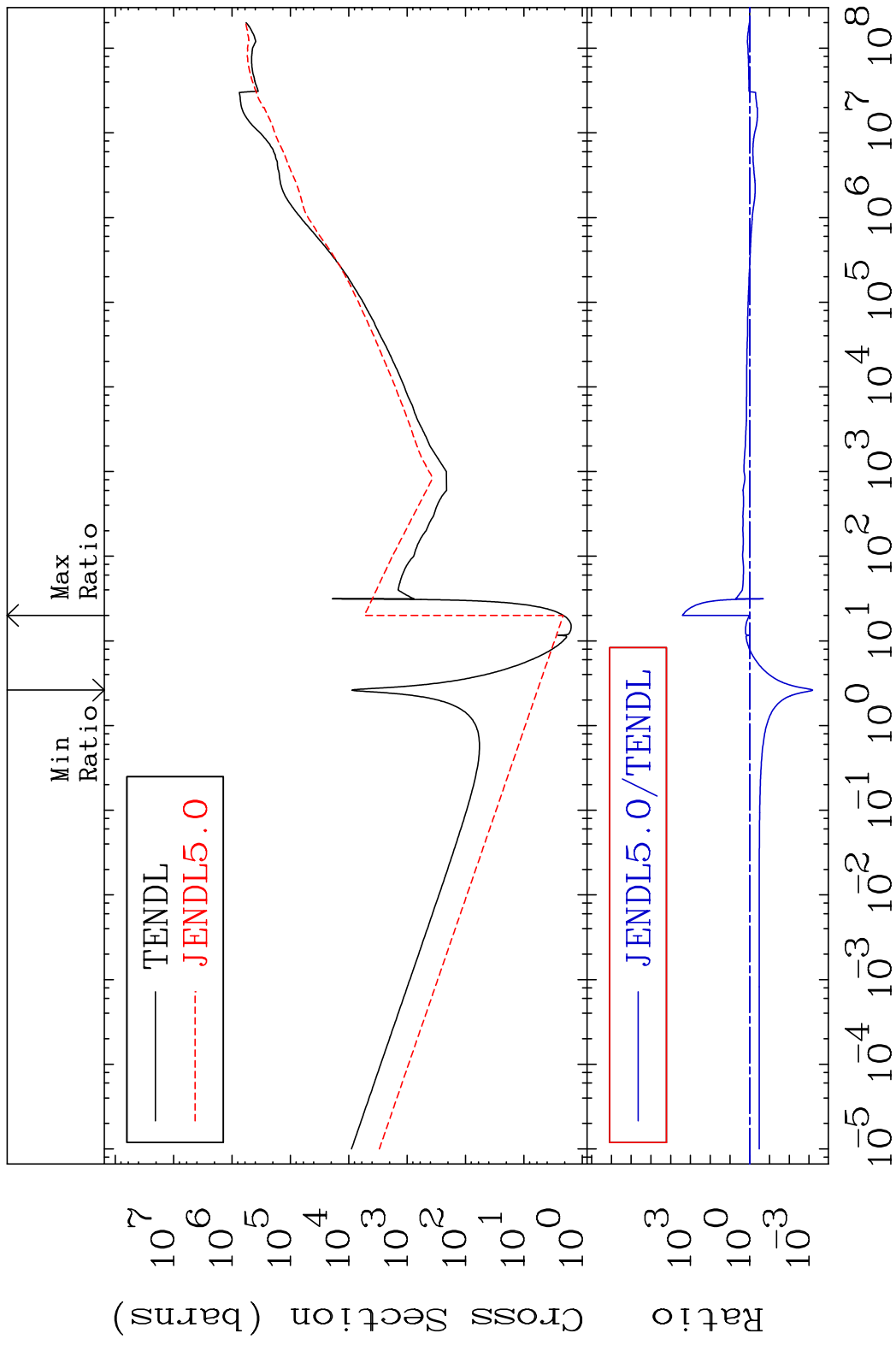


48 Incident Energy (eV) 56-Ba-135m

MAT 5641 Total kinematic kerma (high limit)56-Ba-135m  
Cross Section -99.94 To 9999. %



MAT 5641      Dpa total (eV-barns)      56-Ba-135m  
 Cross Section      -99.93 To 9999.      %



50      Incident Energy (eV)      56-Ba-135m

MAT 5641

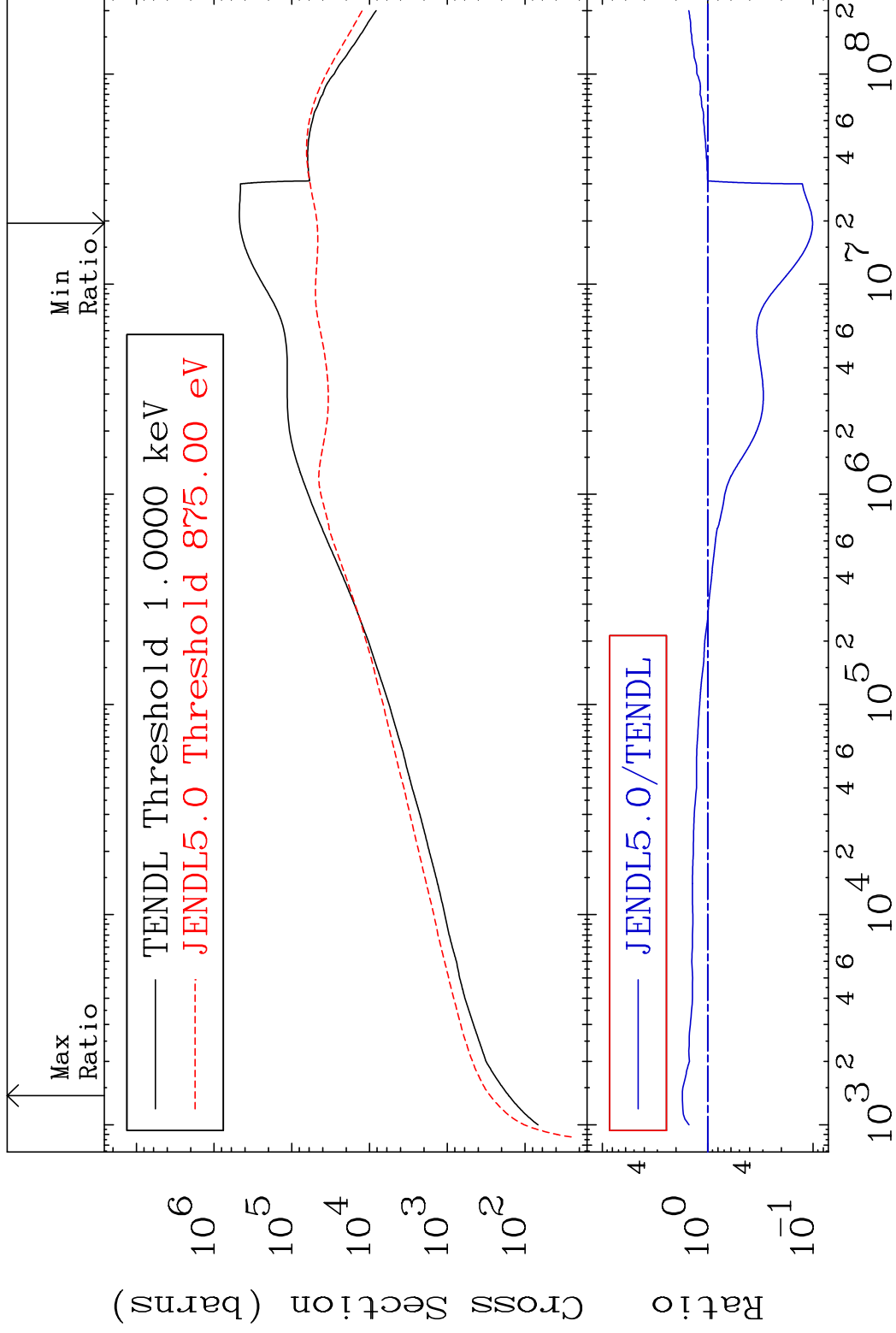
Dpa elastic (mt2)

56-Ba-135m

Cross Section

-89.87

To 73.88 %

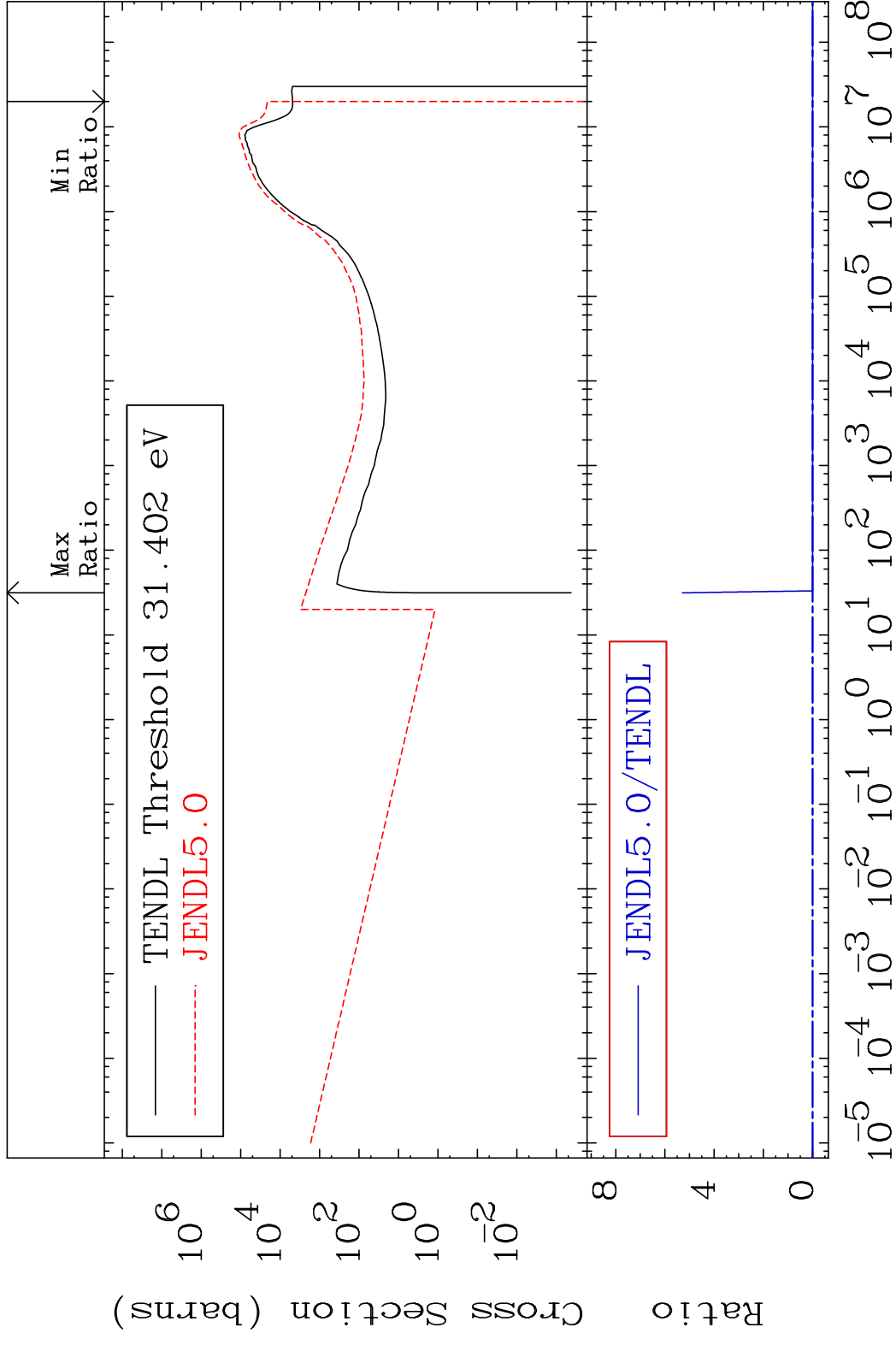


51

Incident Energy (eV)

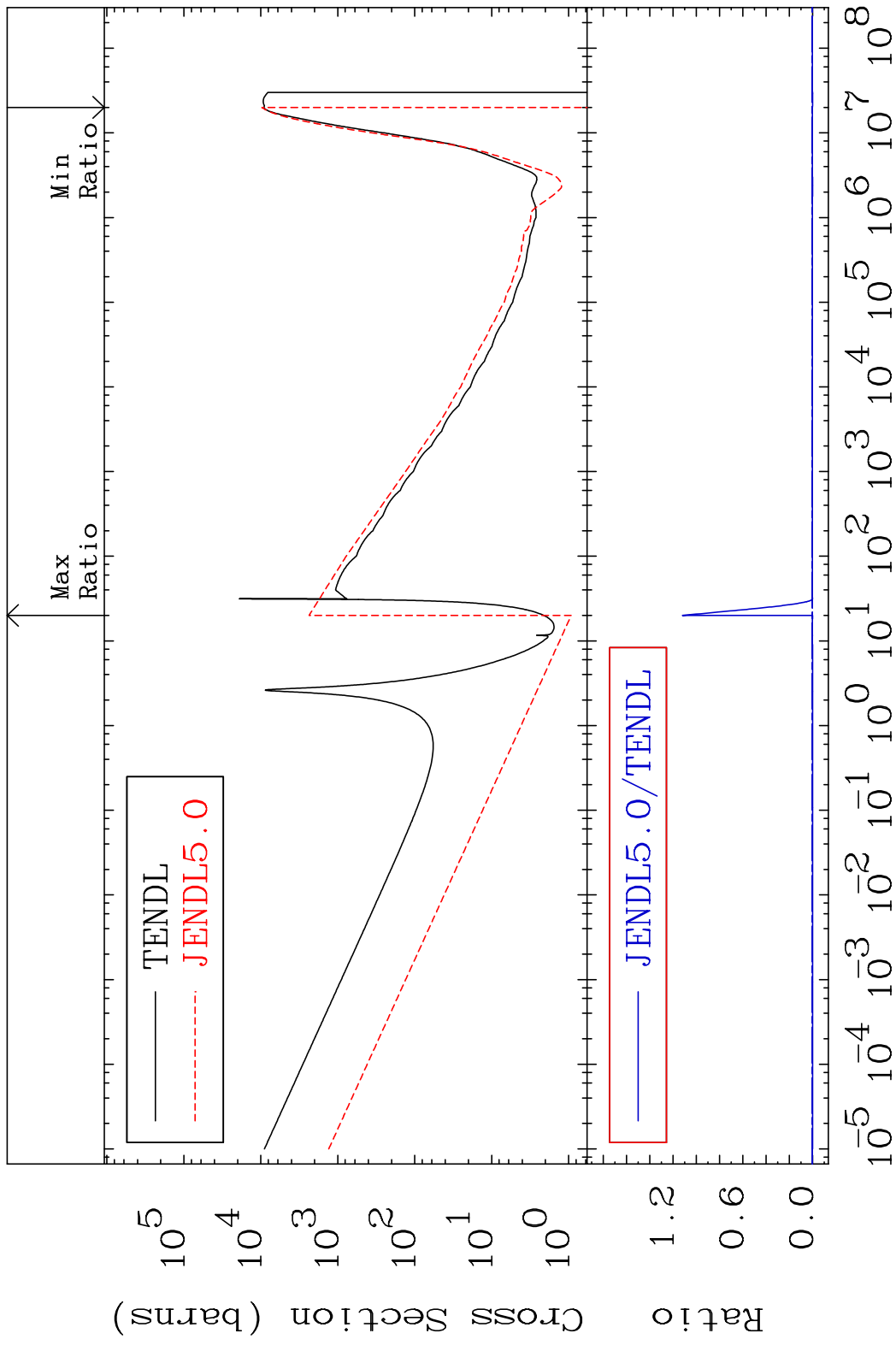
56-Ba-135m

MAT 5641      Dpa inelastic (mt51-91)      56-Ba-135m  
 Cross Section      -100.0 To 9999. %



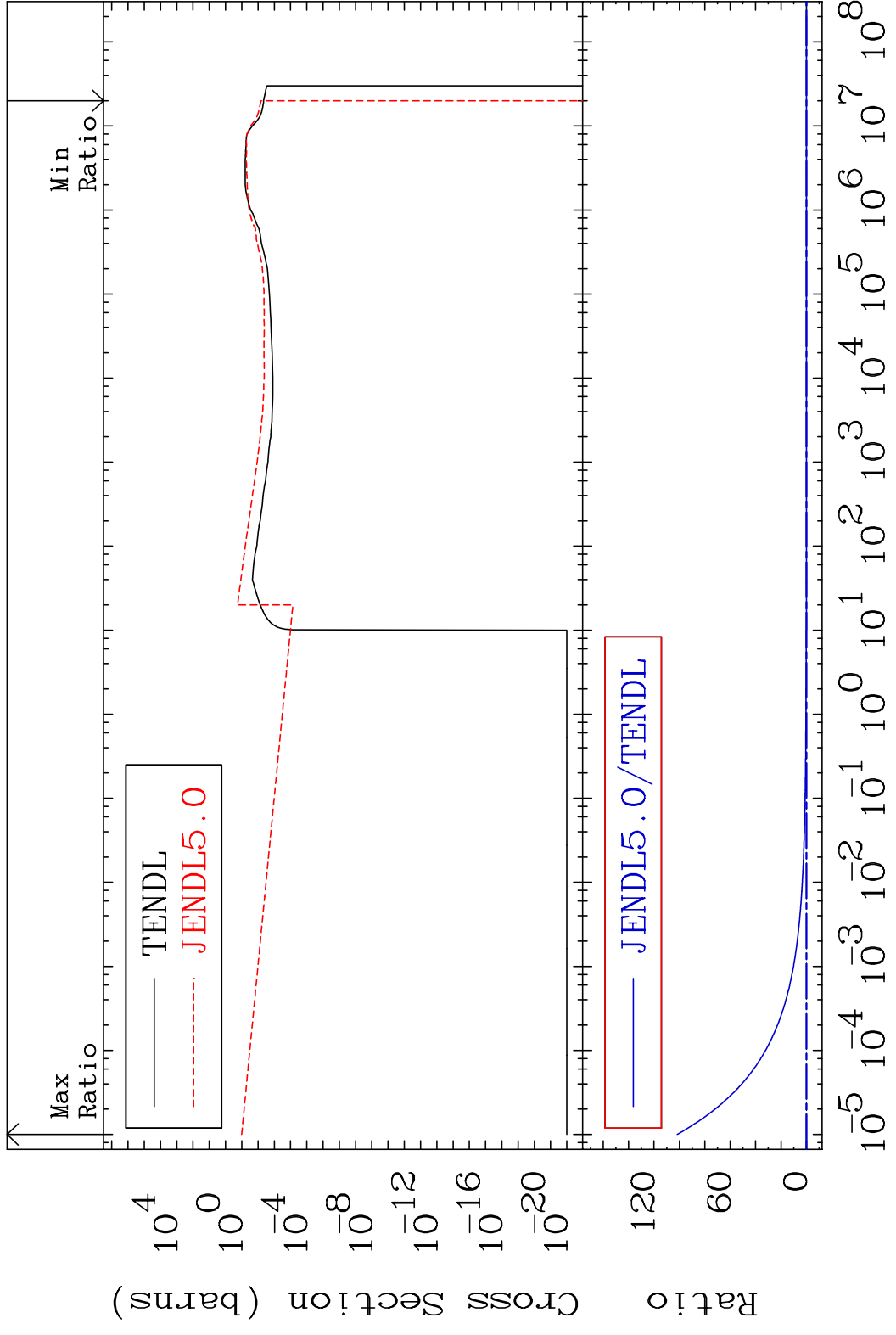
52      Incident Energy (eV)      56-Ba-135m

MAT 5641 Dpa disappearance (mt102 -120) 56-Ba-135m  
 Cross Section -100.0 To 9999. %

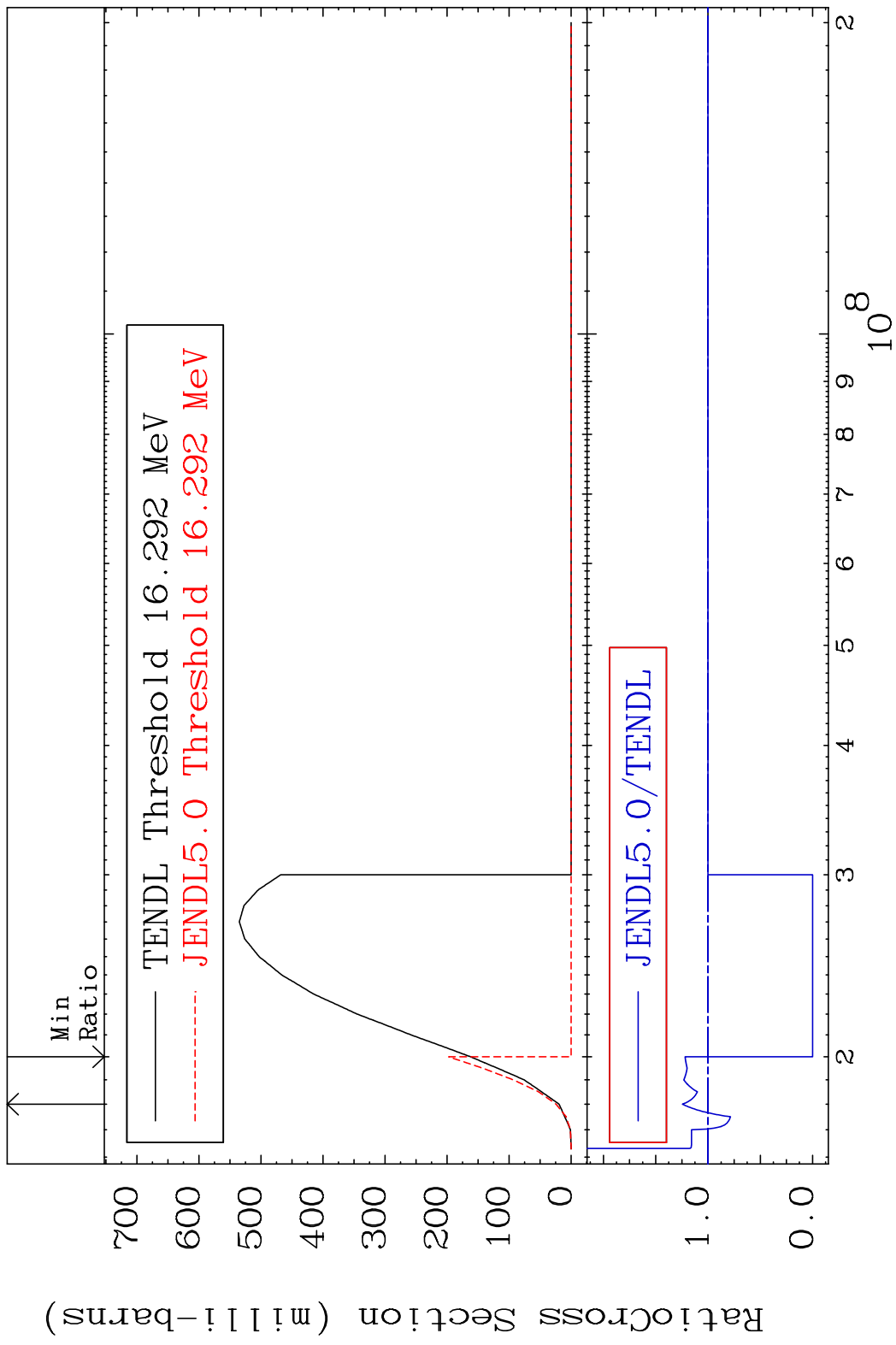


53 Incident Energy (eV) 56-Ba-135m

MAT 5641 Inelastic:56-Ba-135g 56-Ba-135m  
 Radionuclide Production Cross Section 100.00 to 9999.99 %

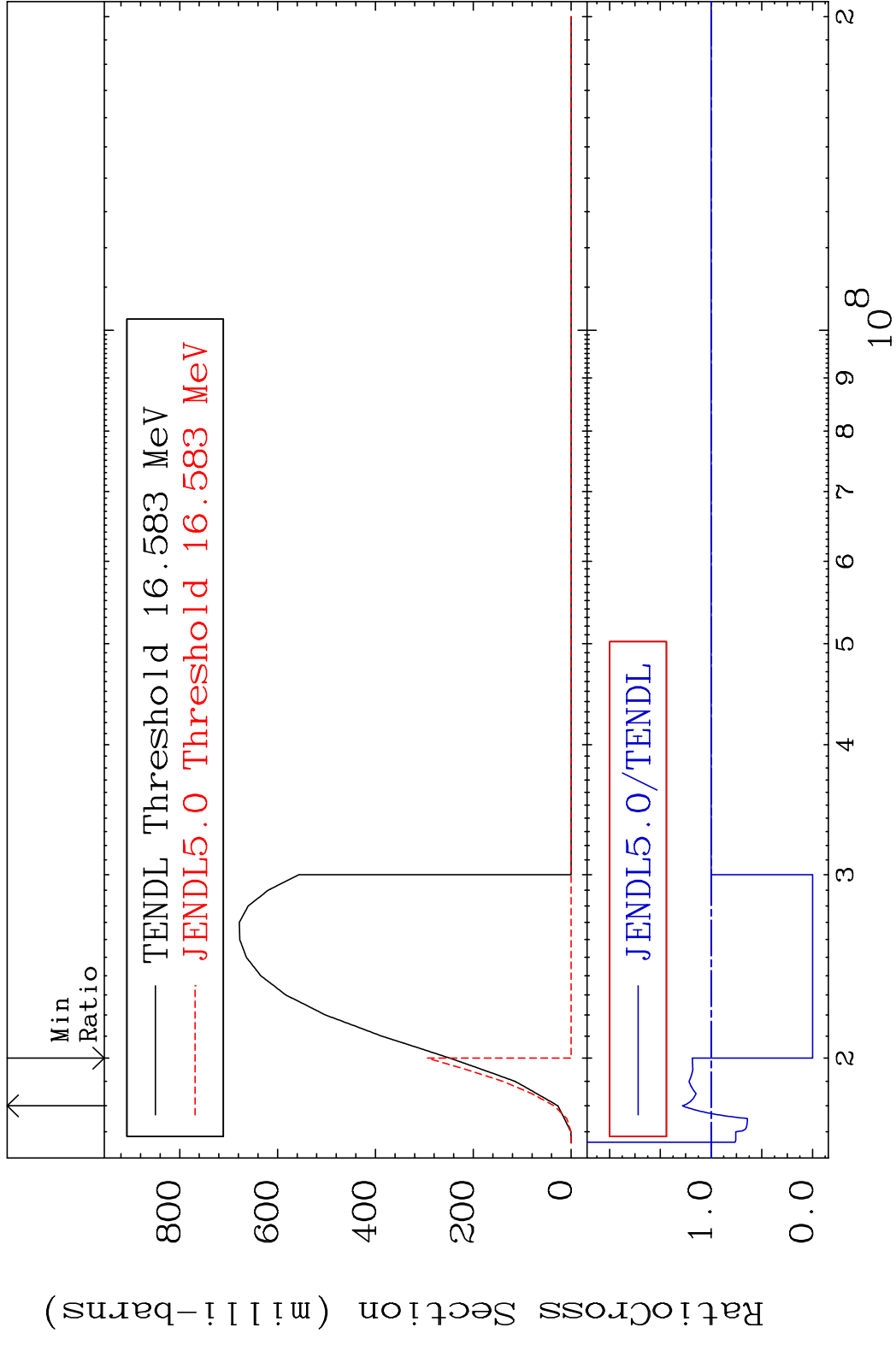


MAT 5641 (n,3n):56-Ba-133g 56-Ba-135m  
 Radionuclide Production Cross Section to 24.51 %



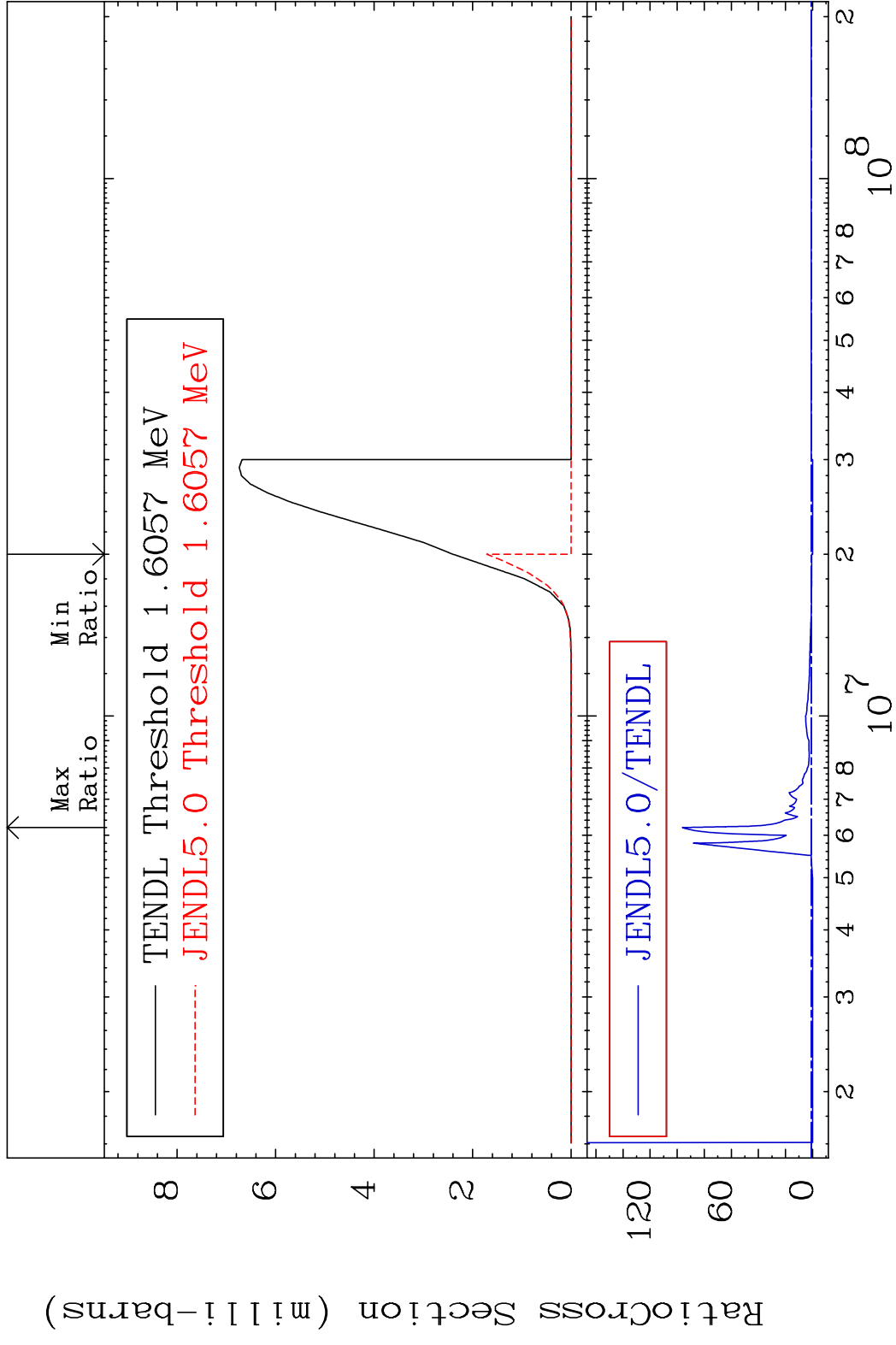


MAT 5641 (n, 3n):56-Ba-133m2 56-Ba-135m  
 Radionuclide Production Cross Section 180.01 dth 28.28 %

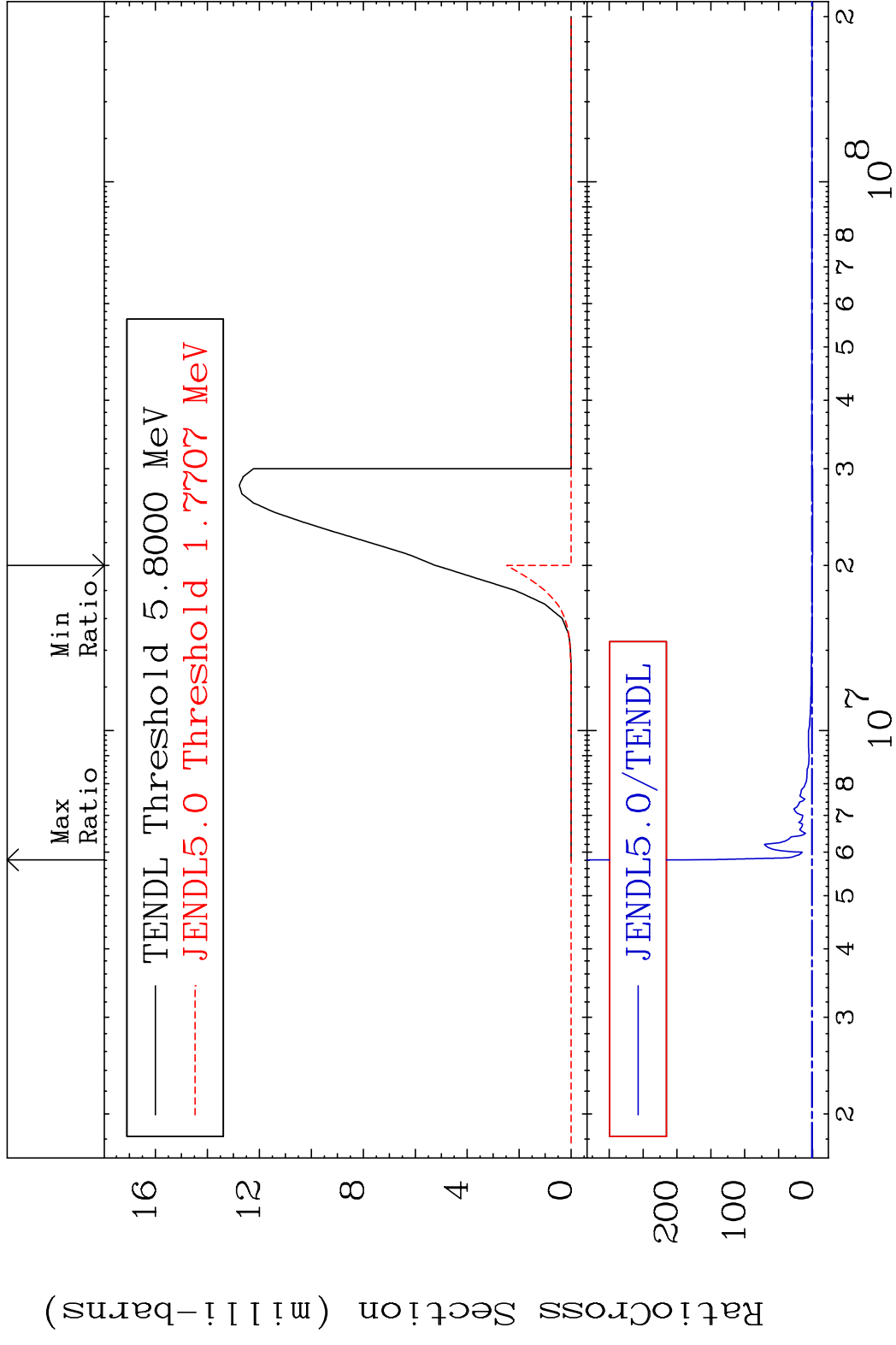


56 Incident Energy (eV) 56-Ba-135m

MAT 5641 (n, n')  $\alpha$ :54-Xe-131g 56-Ba-135m  
 Radionuclide Production Cross Section 18000 dth 9517. %

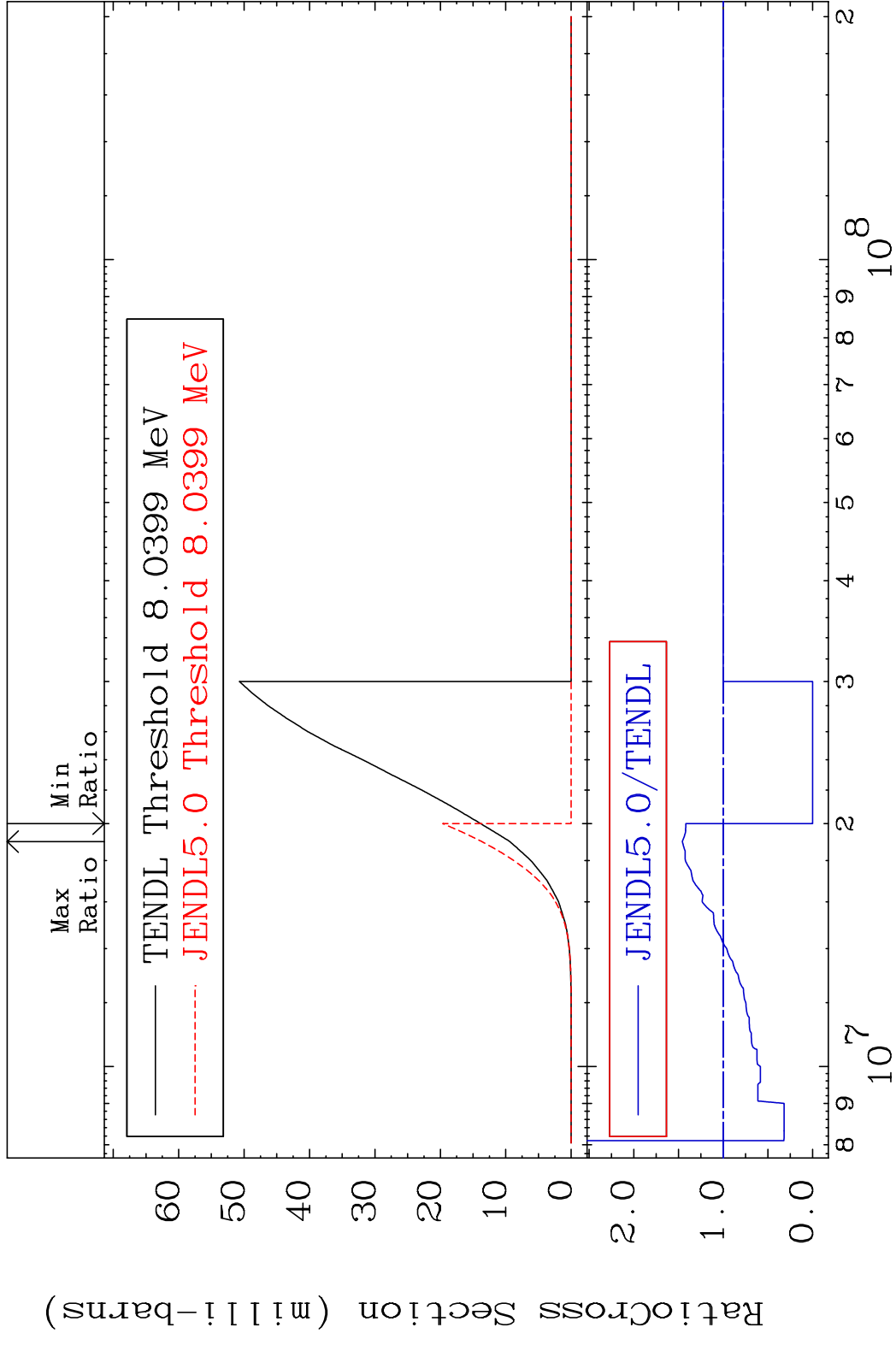


MAT 5641 (n, n')  $\alpha$ :54-Xe-131m2 56-Ba-135m  
 Radionuclide Production Cross Section to 9999. %

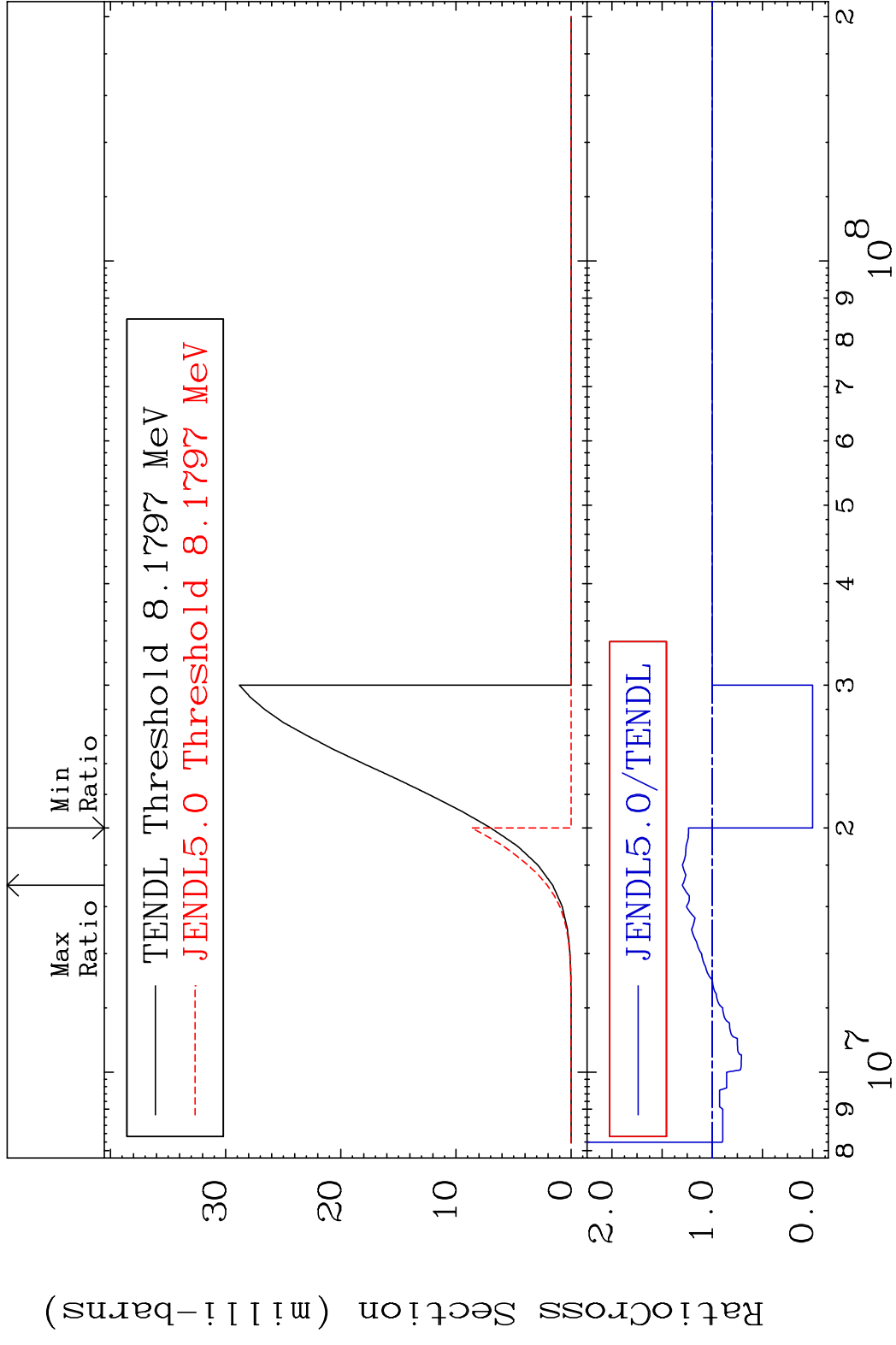


58 Incident Energy (eV) 56-Ba-135m

MAT 5641 (n, n') p:55-Cs-134g 56-Ba-135m  
 Radionuclide Production Cross Section Ratio 45.71 %

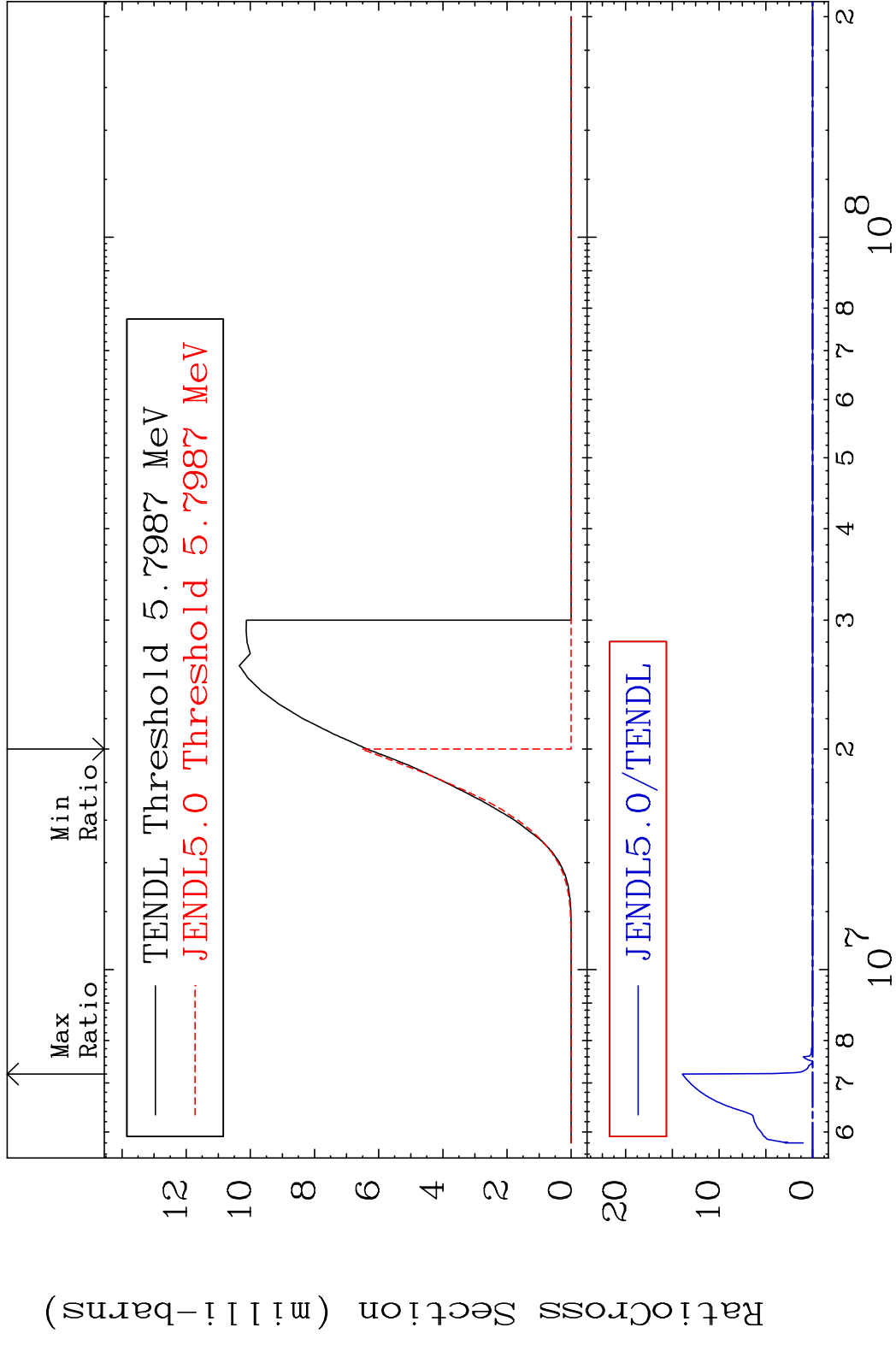


MAT 5641 (n, n') p:55-Cs-134m3 56-Ba-135m  
 Radionuclide Production Cross Section 18000 dth 29.75 %

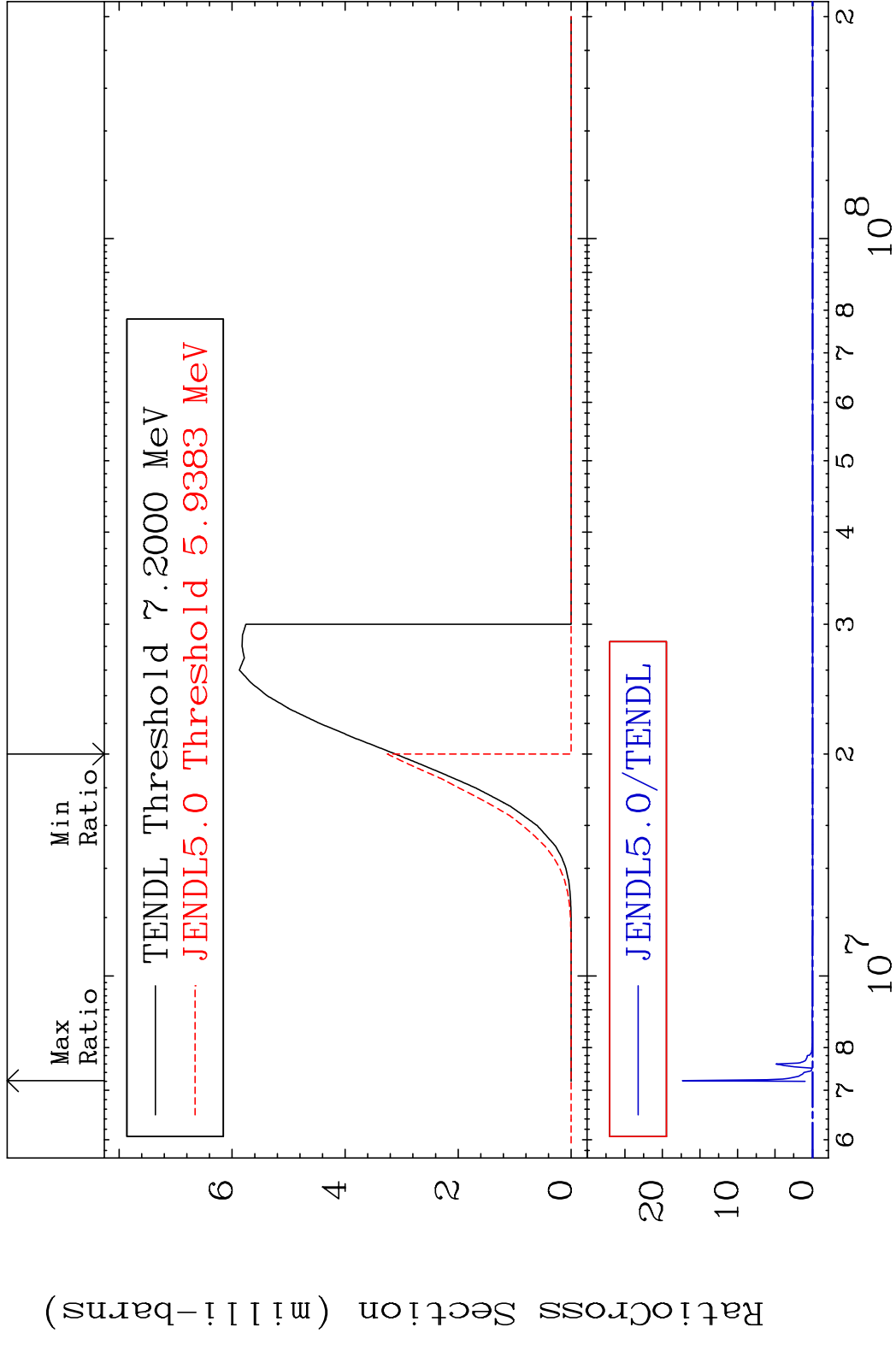


60 Incident Energy (eV) 56-Ba-135m

MAT 5641 (n,d):55-Cs-134g 56-Ba-135m  
 Radionuclide Production Cross Section to 9999. %

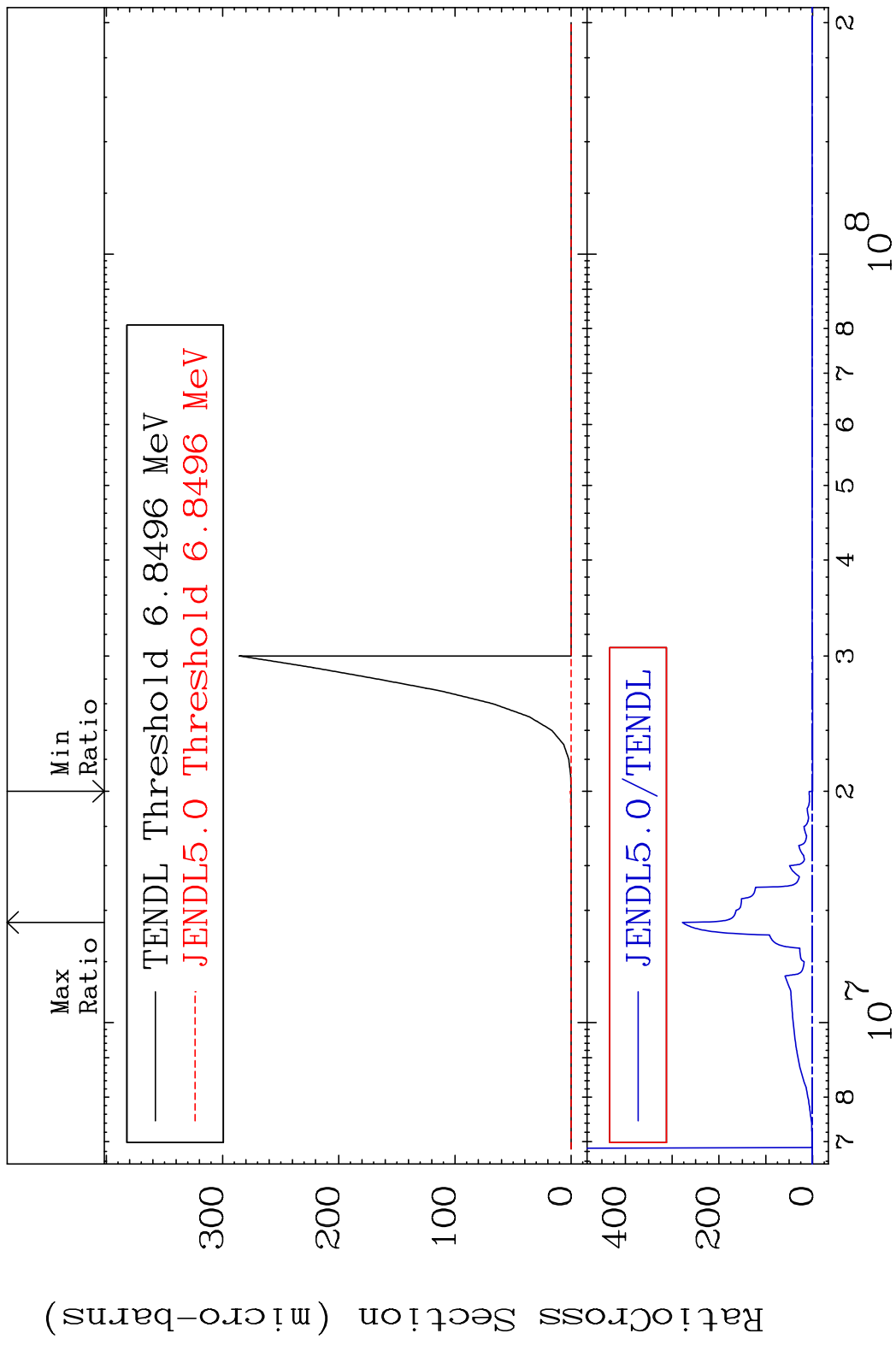


MAT 5641 (n, d):55-Cs-134m3 56-Ba-135m  
 Radionuclide Production Cross Section to 9999. %



62 Incident Energy (eV) 56-Ba-135m

MAT 5641 (n, He-3):54-Xe-133g 56-Ba-135m  
 Radionuclide Production Cross Section 1800010 d10 9999. %





MAT 5641 (n, He-3) : 54-Xe-133m1 56-Ba-135m  
 Radionuclide Production Cross Section to 9999. %

