

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

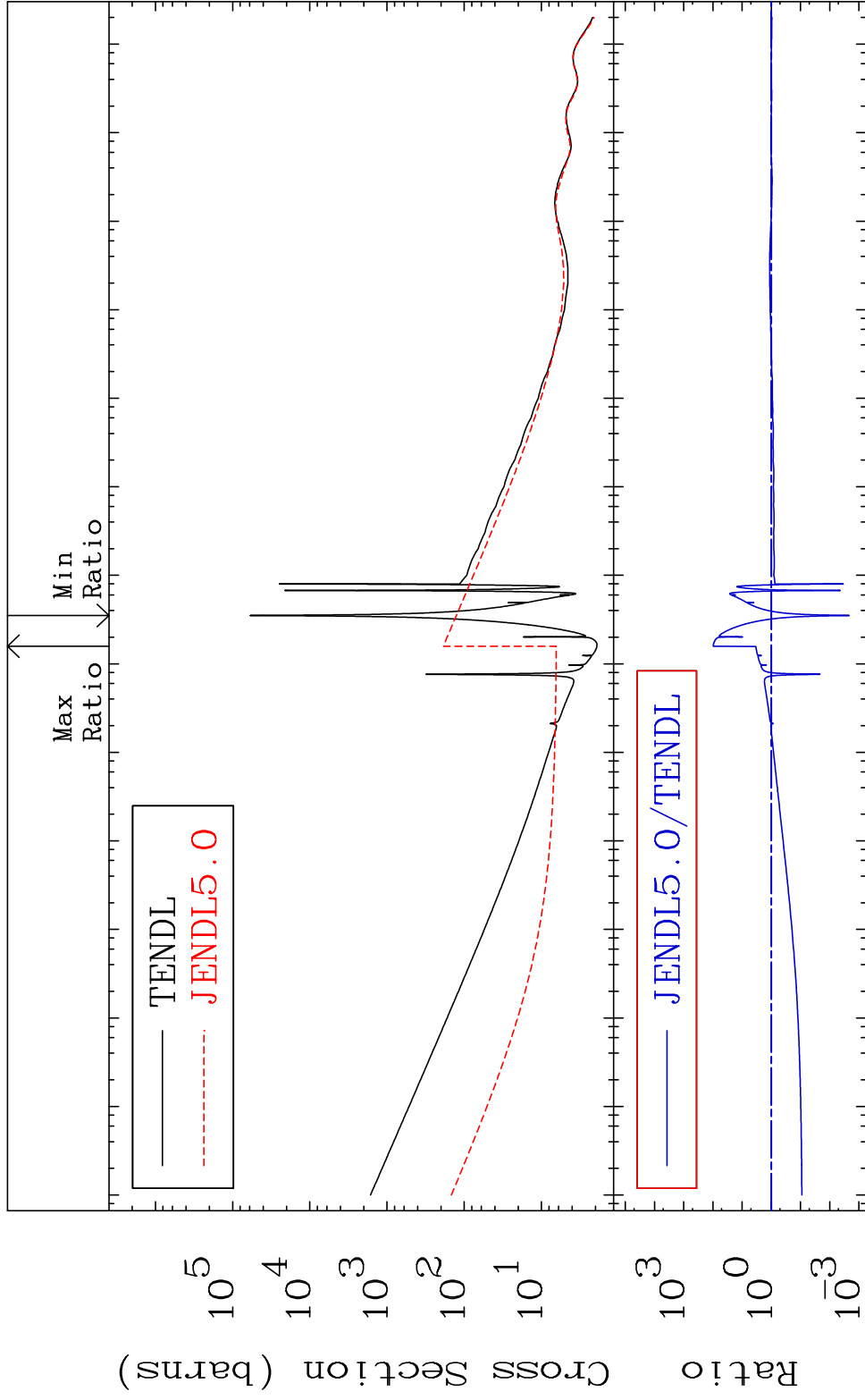
MAT 5819

Total

58-Ce-134

Cross Section

-99.79 To 9655. %



1

Incident Energy (eV)

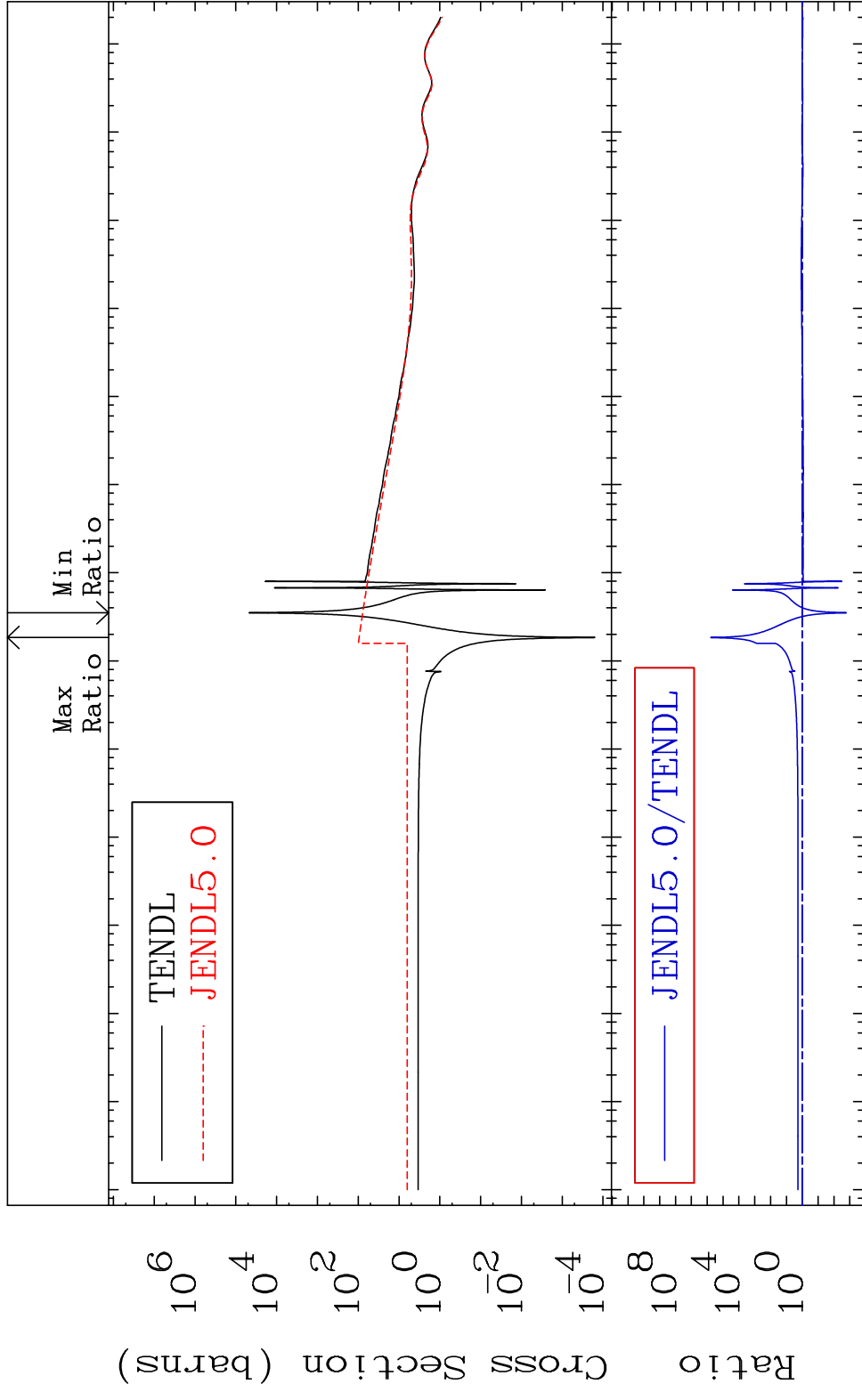
58-Ce-134

MAT 5819

58-Ce-134

Elastic

Cross Section -99.83 To 9999. %

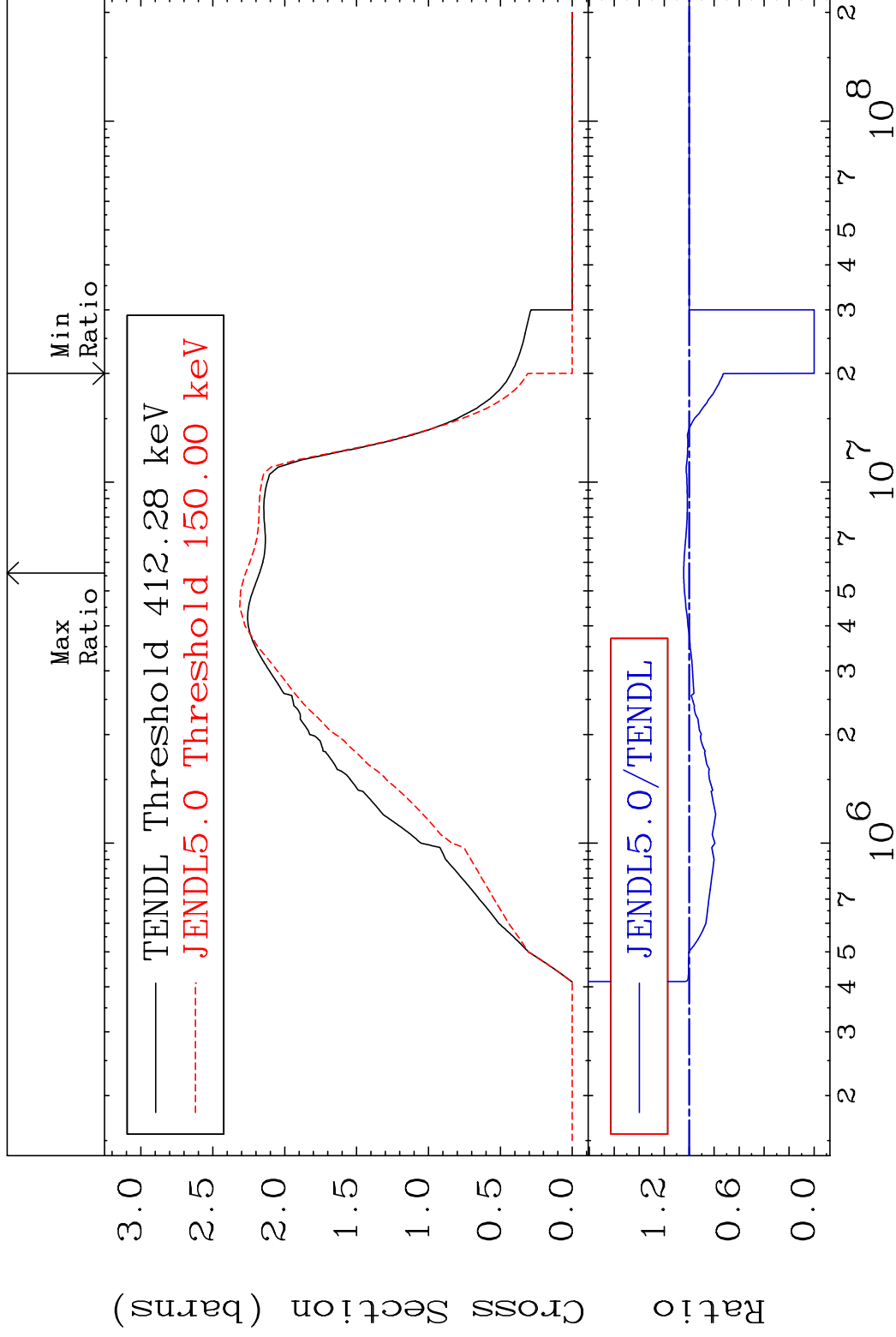


MAT 5819

Inelastic

58-Ce-134

Cross Section -100.0 To 4.440 %



3

Incident Energy (eV)

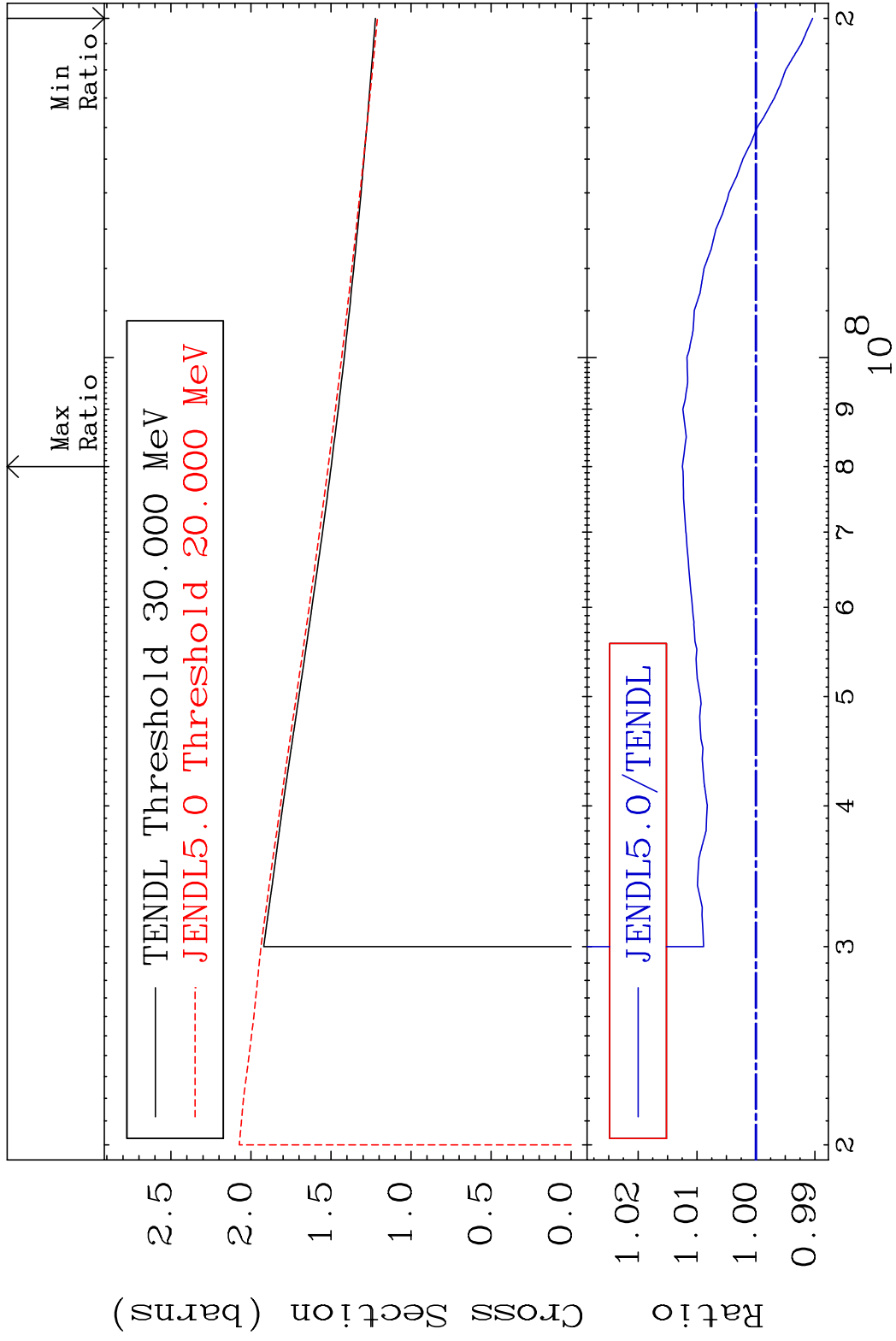
58-Ce-134

MAT 5819

(n, remainder)

58-Ce-134

Cross Section -0.962 To 1.249 %



4

Incident Energy (eV)

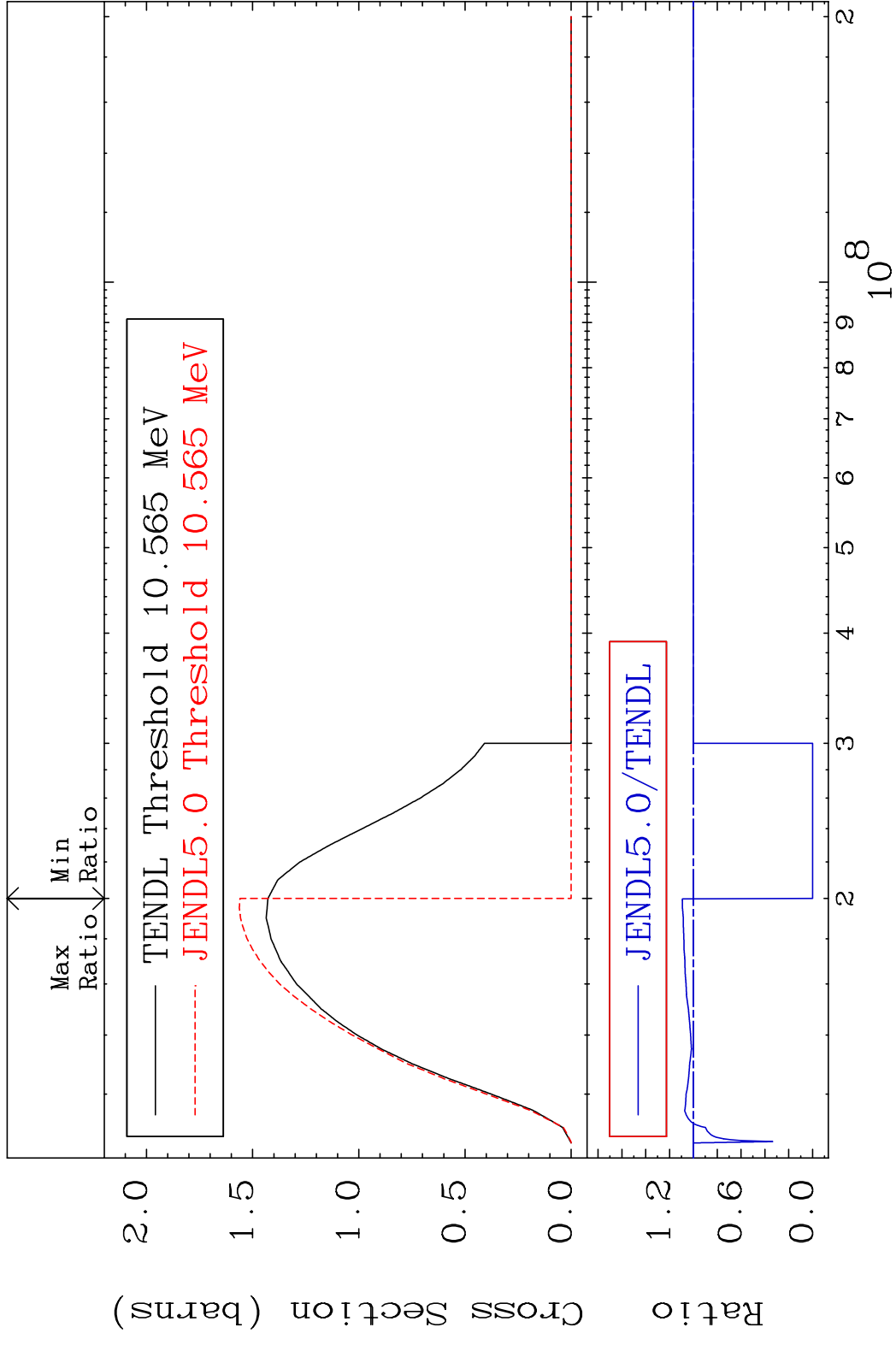
58-Ce-134

MAT 5819

(n,2n)

58-Ce-134

Cross Section -100.0 To 9.241 %

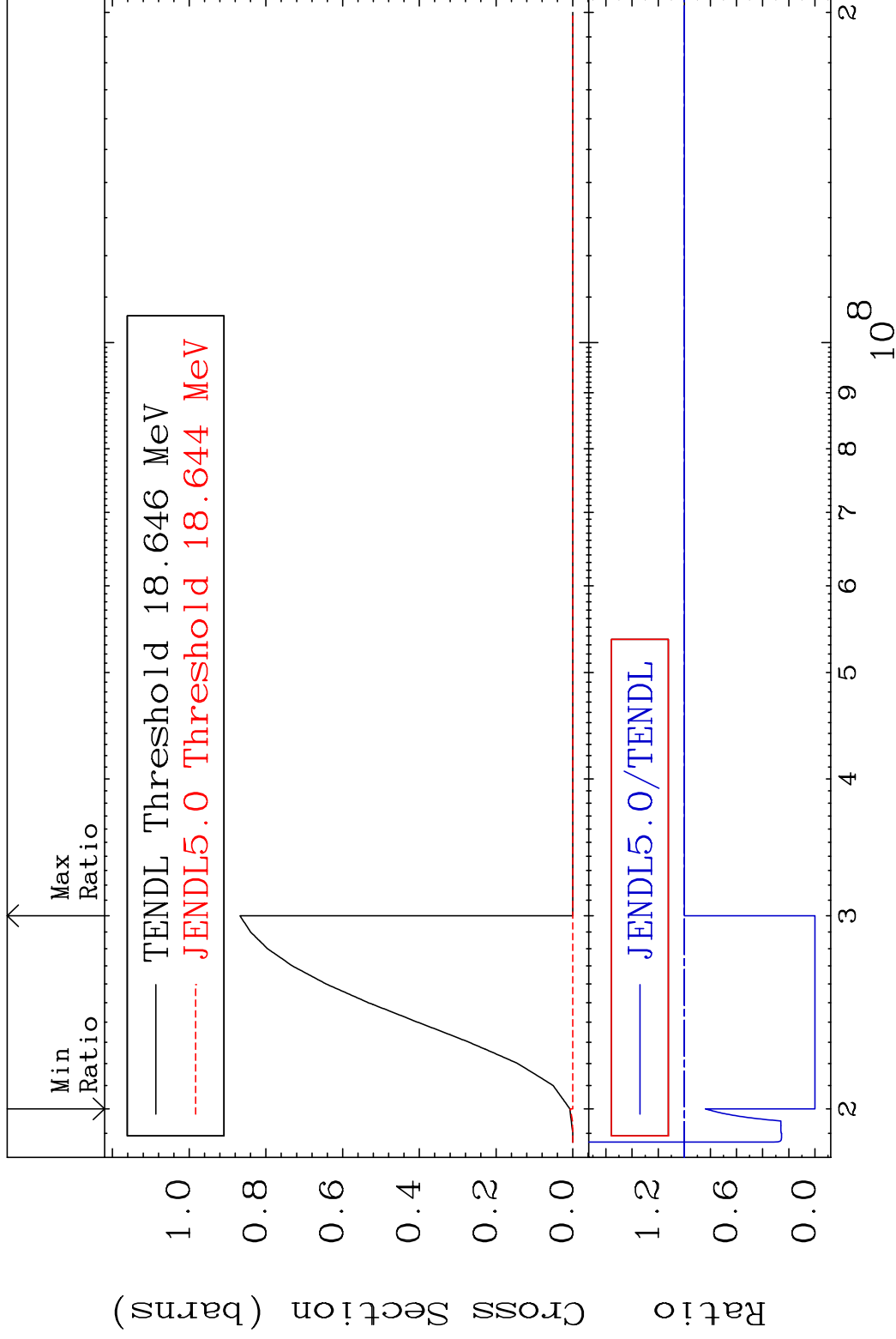


MAT 5819

(n,3n)

58-Ce-134

Cross Section -100.0 To 0.000 %

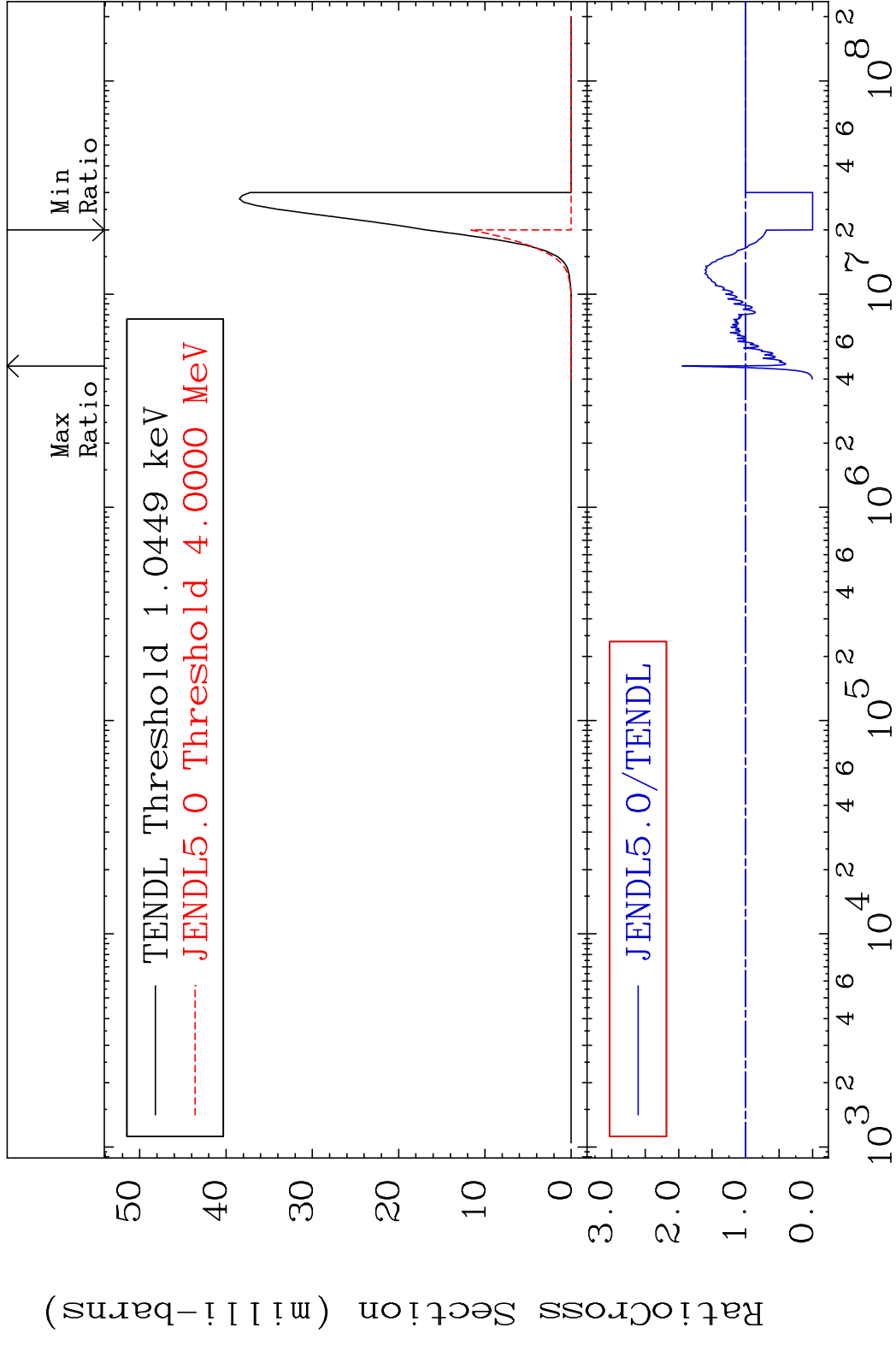


6

Incident Energy (eV)

58-Ce-134

MAT 5819 (n, n')  $\alpha$  58-Ce-134  
 Cross Section -100.0 To 94.46 %



7 Incident Energy (eV) 58-Ce-134

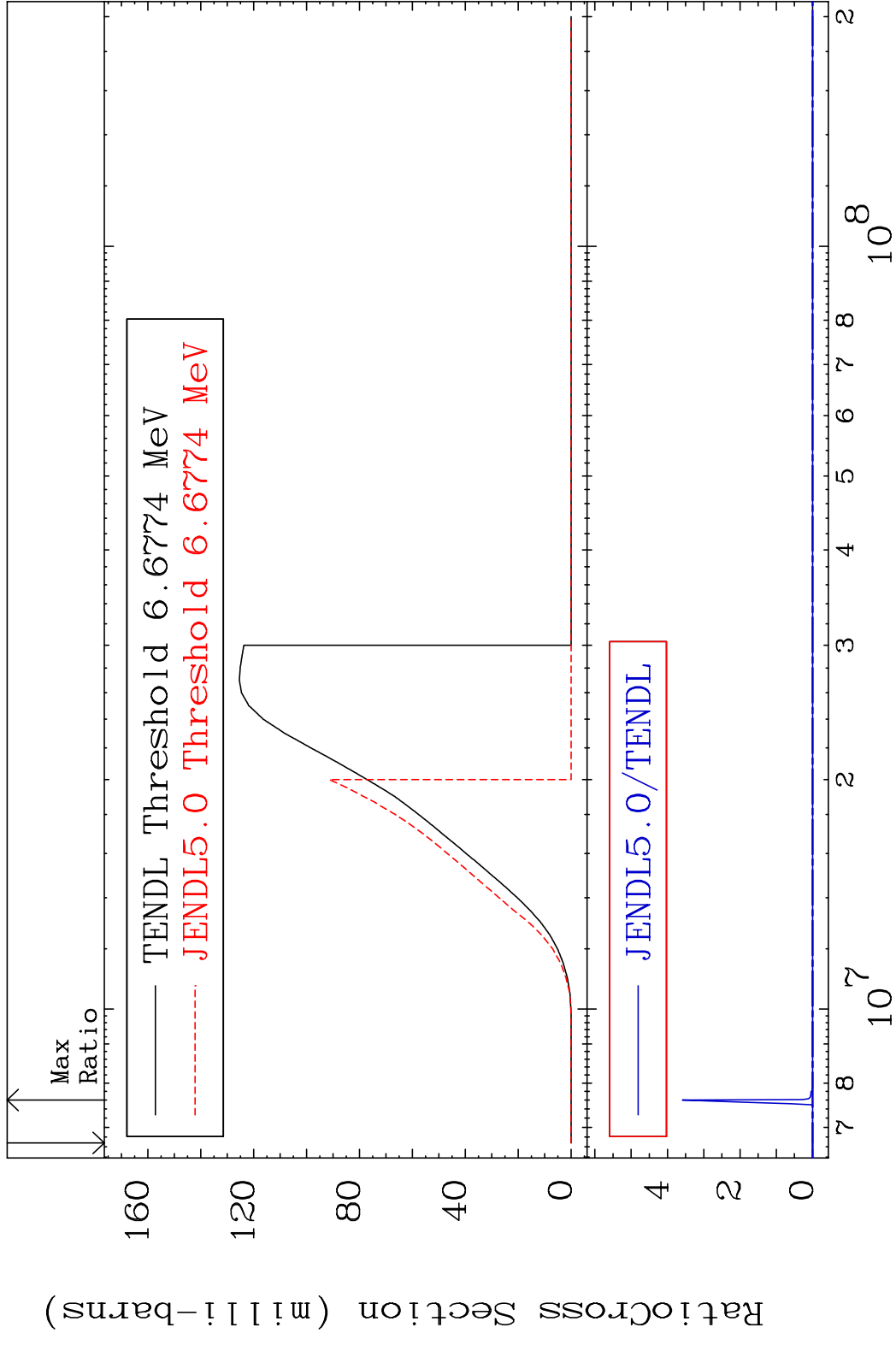


MAT 5819

(n, n') p

58-Ce-134

Cross Section -100.0 To 9999. %

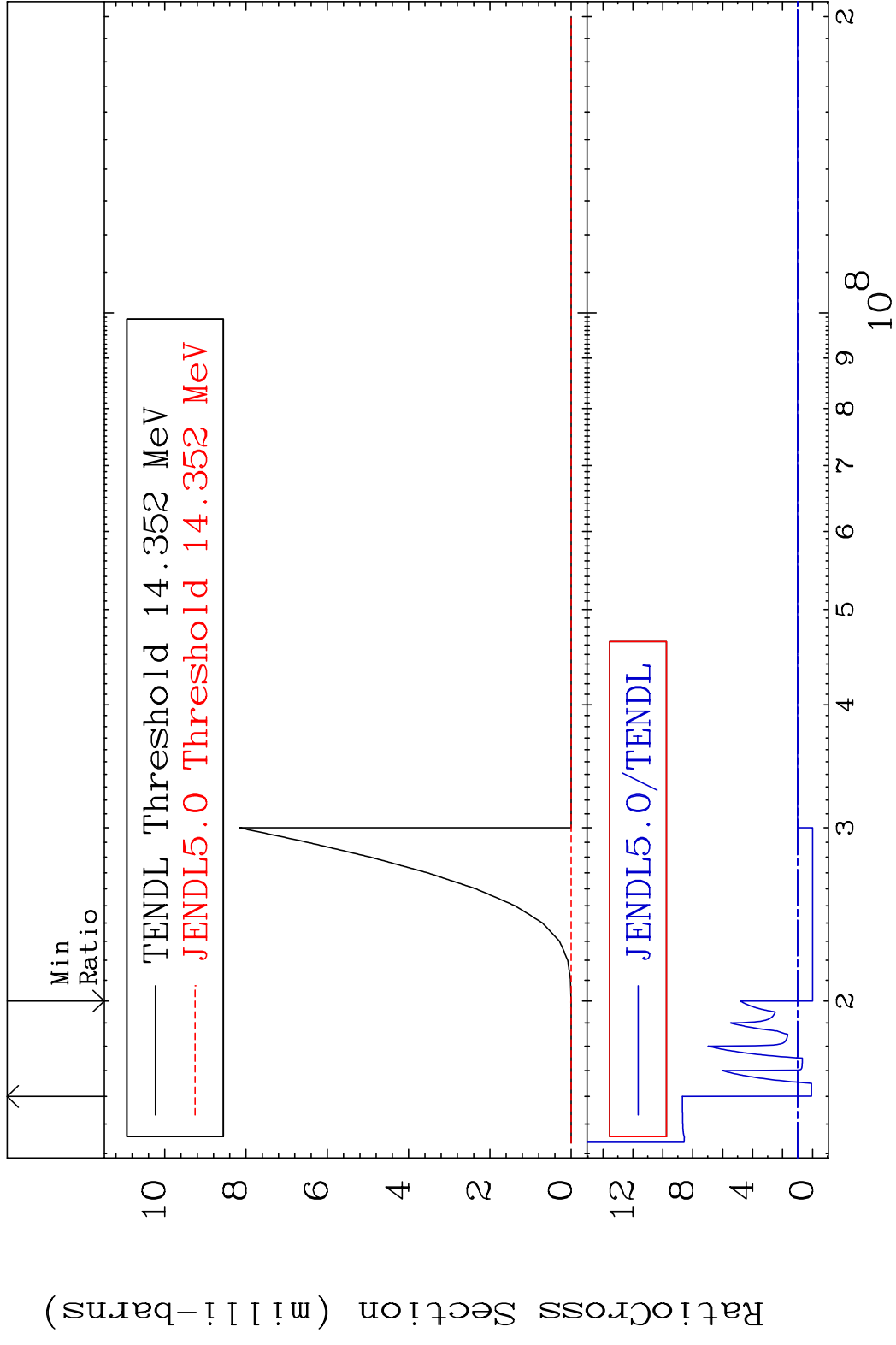


8

Incident Energy (eV)

58-Ce-134

MAT 5819 (n, n') d 58-Ce-134  
 Cross Section -100.0 To 769.5 %

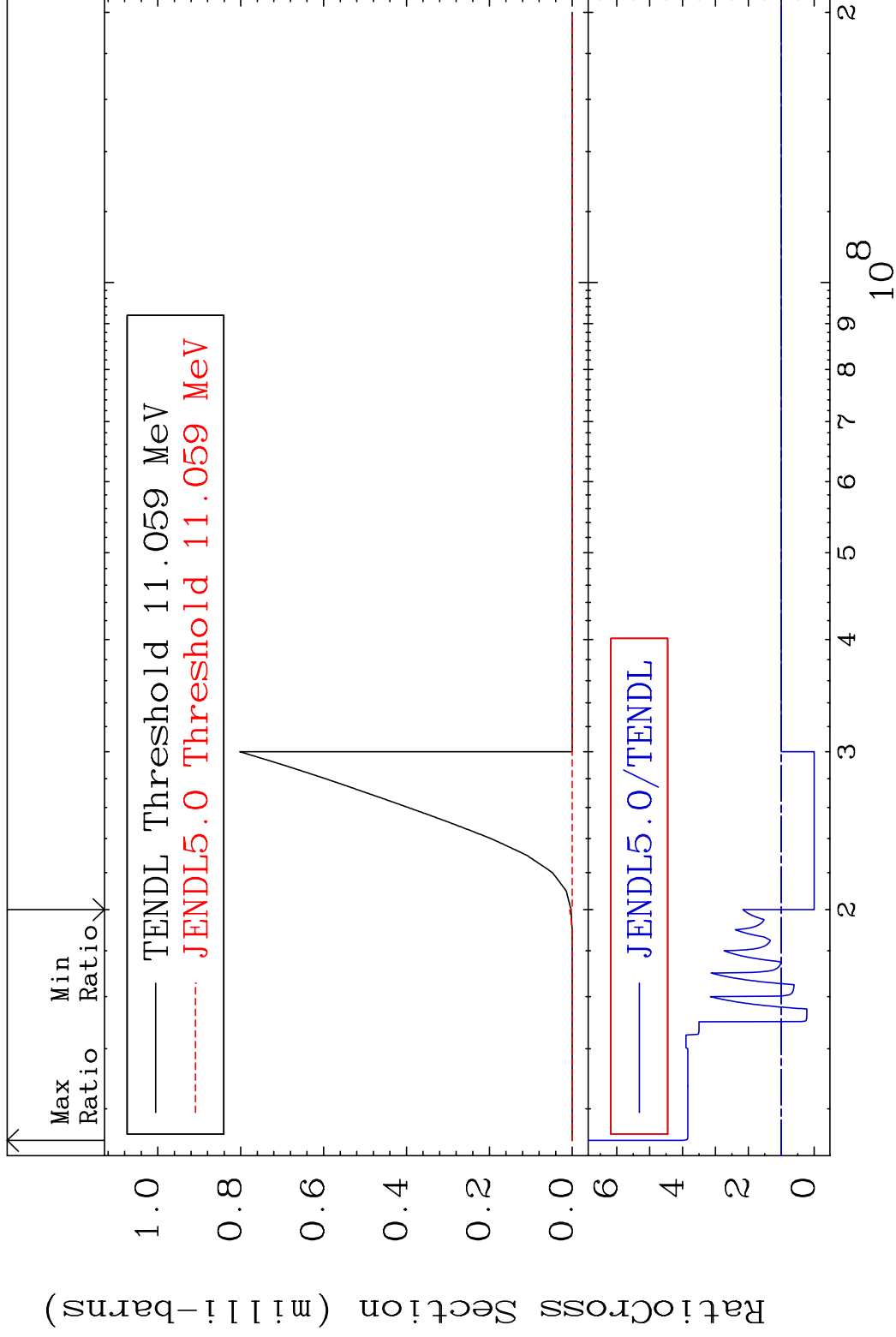


MAT 5819

(n,2n) p

58-Ce-134

Cross Section -100.0 To 296.6 %

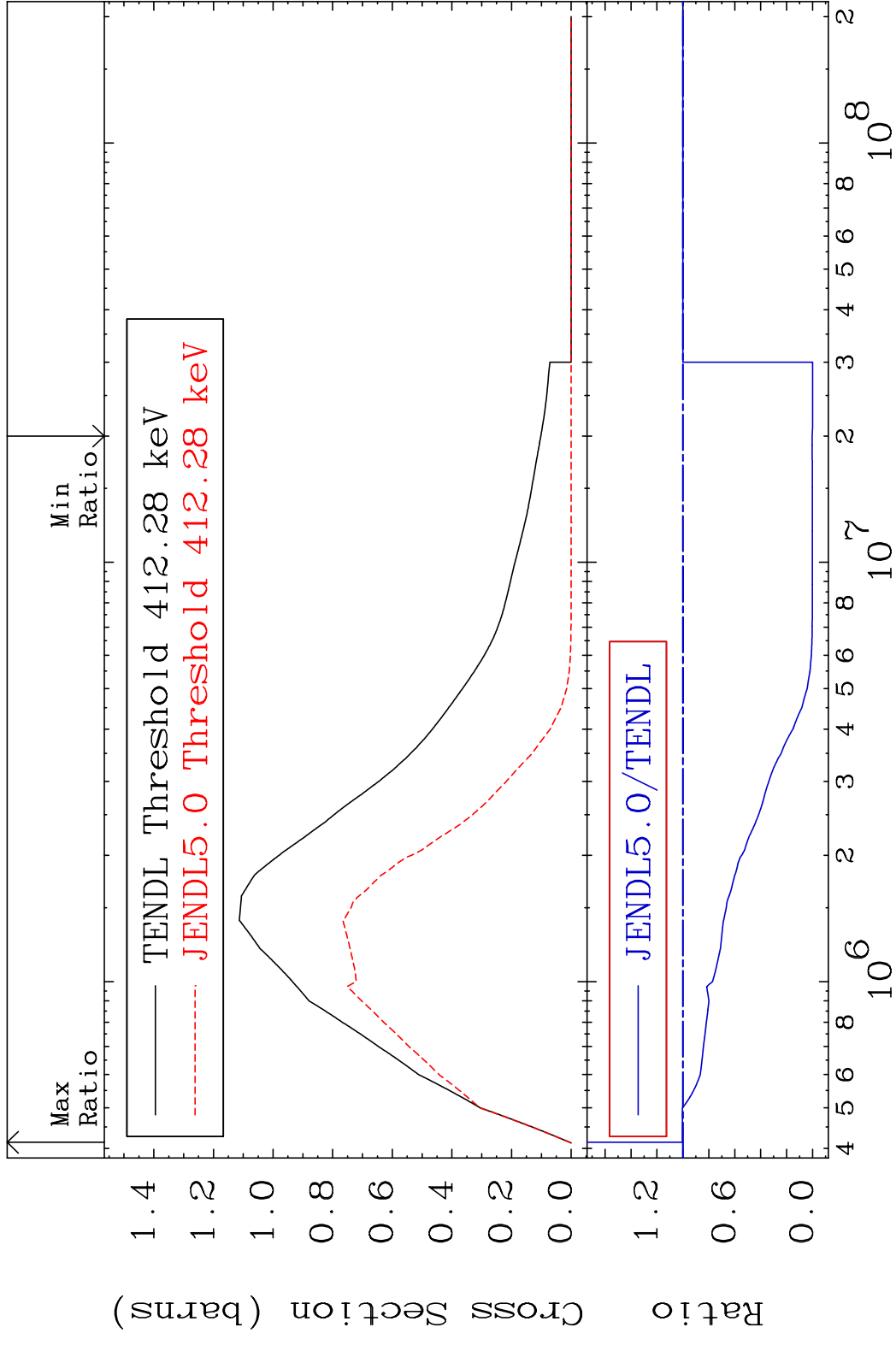


10

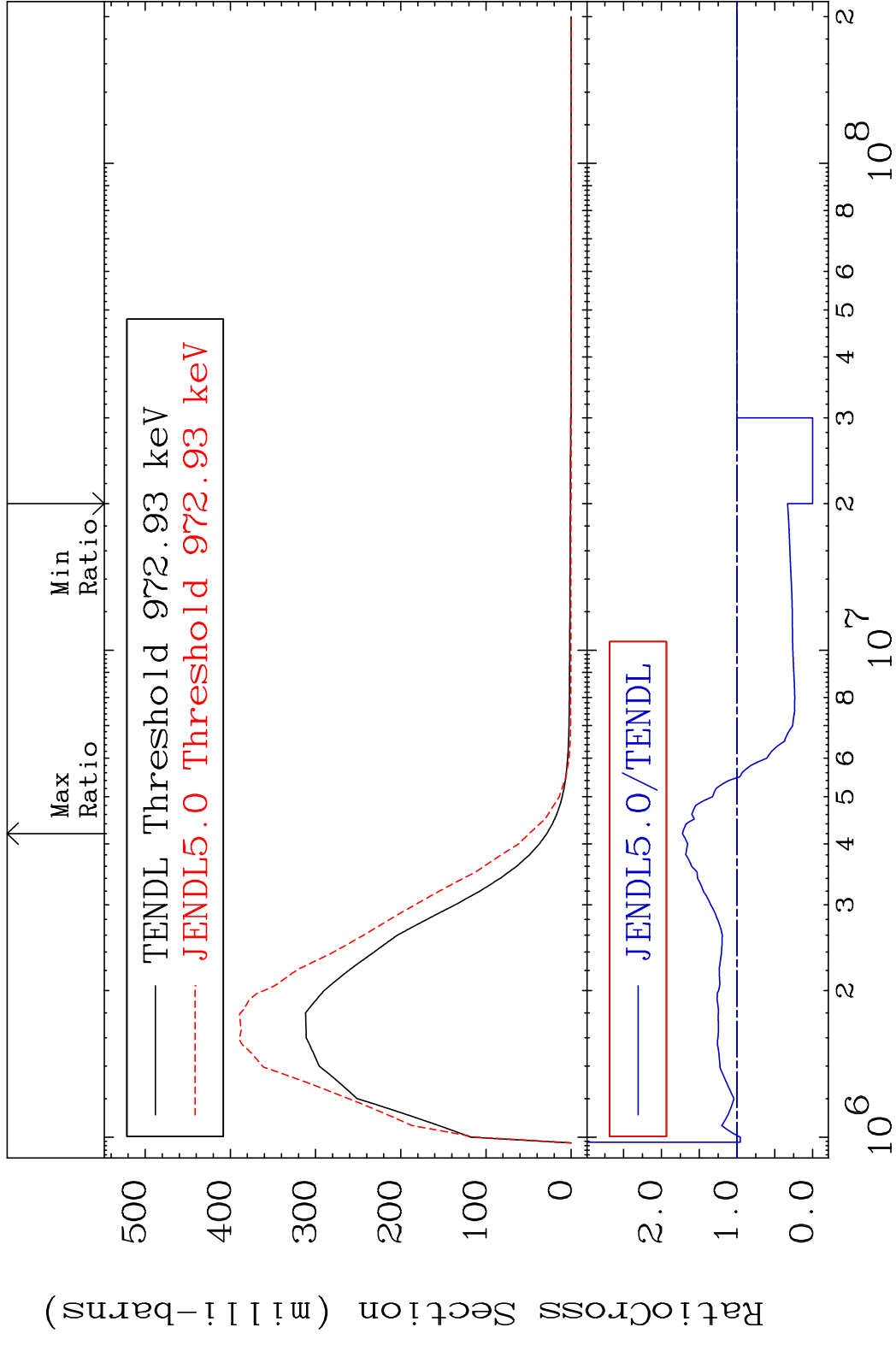
Incident Energy (eV)

58-Ce-134

MAT 5819 MT= 51 (n,n') Level 58-Ce-134  
 Cross Section -100.0 To 0.415 %

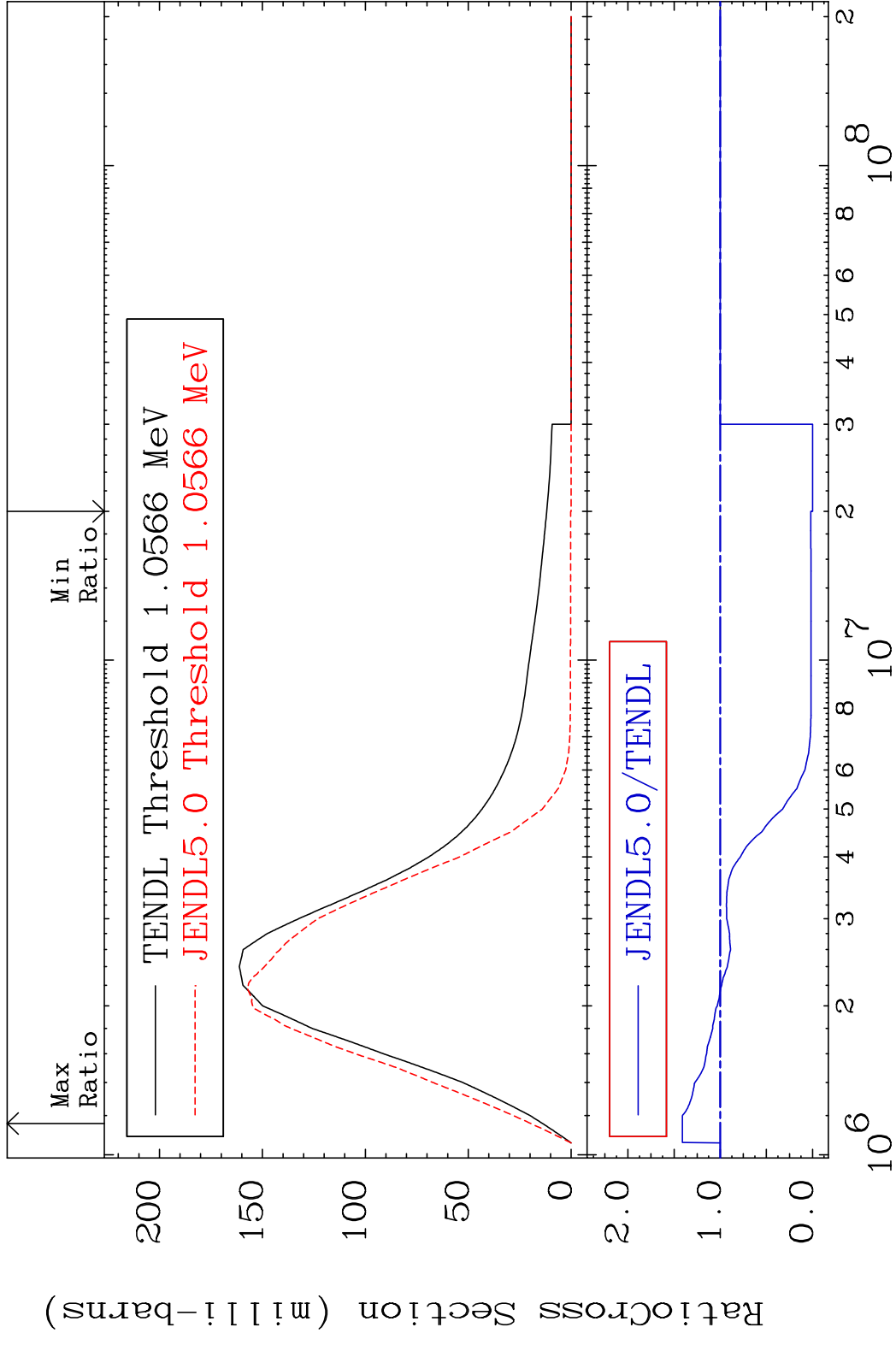


MAT 5819 MT= 52 (n, n') Level 58-Ce-134  
 Cross Section -100.0 To 72.29 %



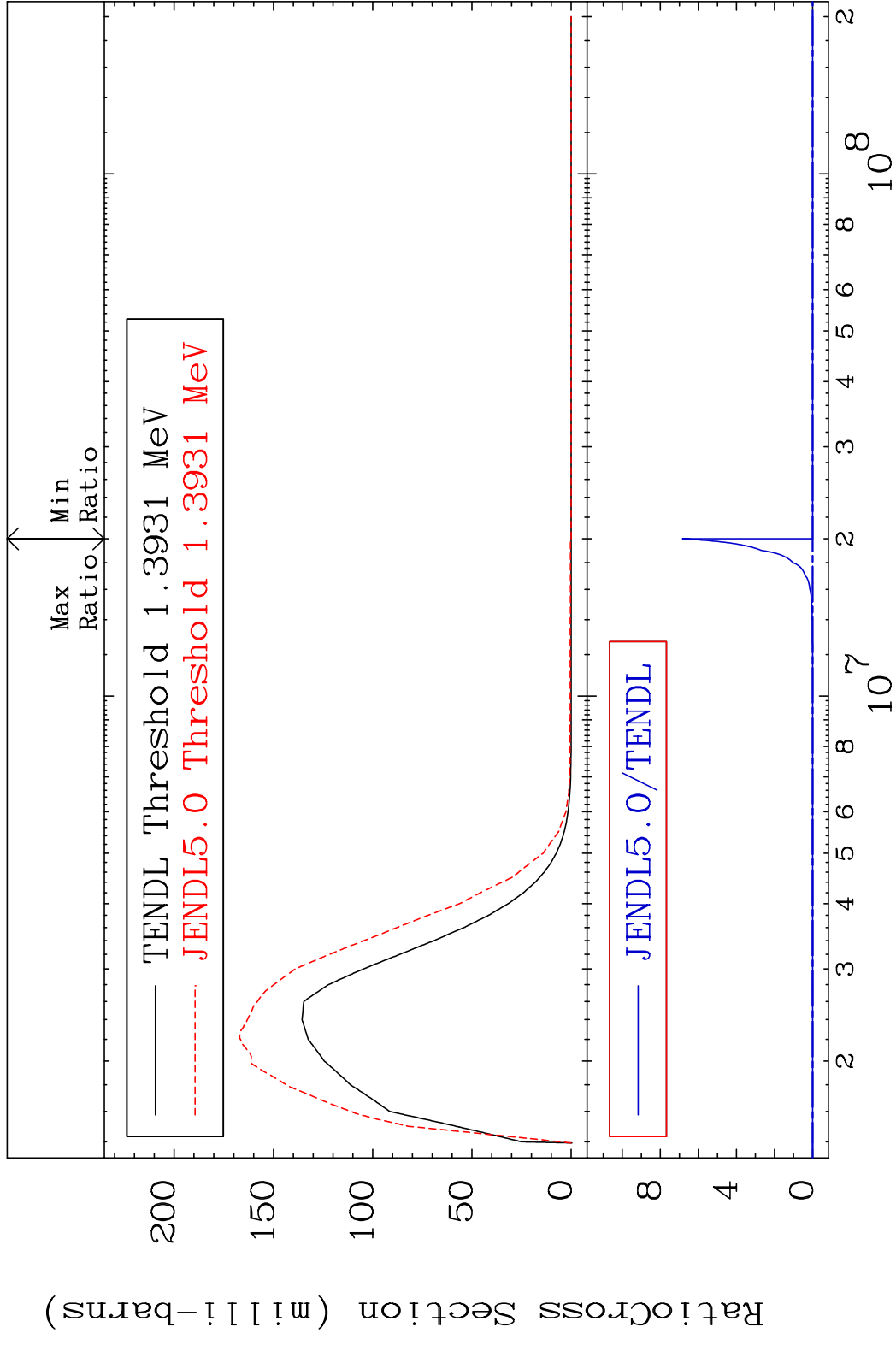
12 Incident Energy (eV) 58-Ce-134

MAT 5819 MT= 53 (n, n') Level 58-Ce-134  
 Cross Section -100.0 To 41.06 %

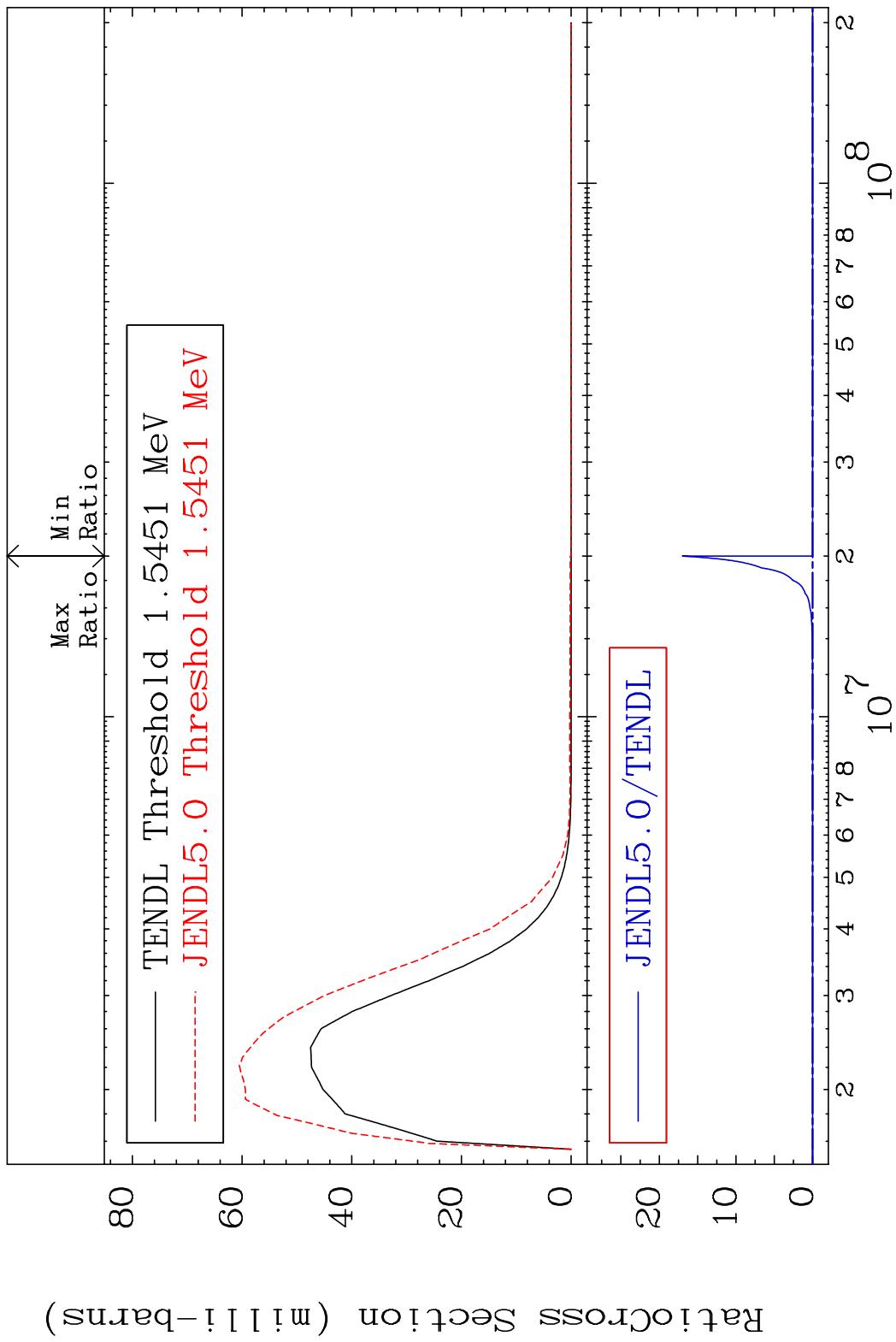


13 Incident Energy (eV) 58-Ce-134

MAT 5819 MT= 54 (n, n') Level 58-Ce-134  
 Cross Section -100.0 To 9999. %



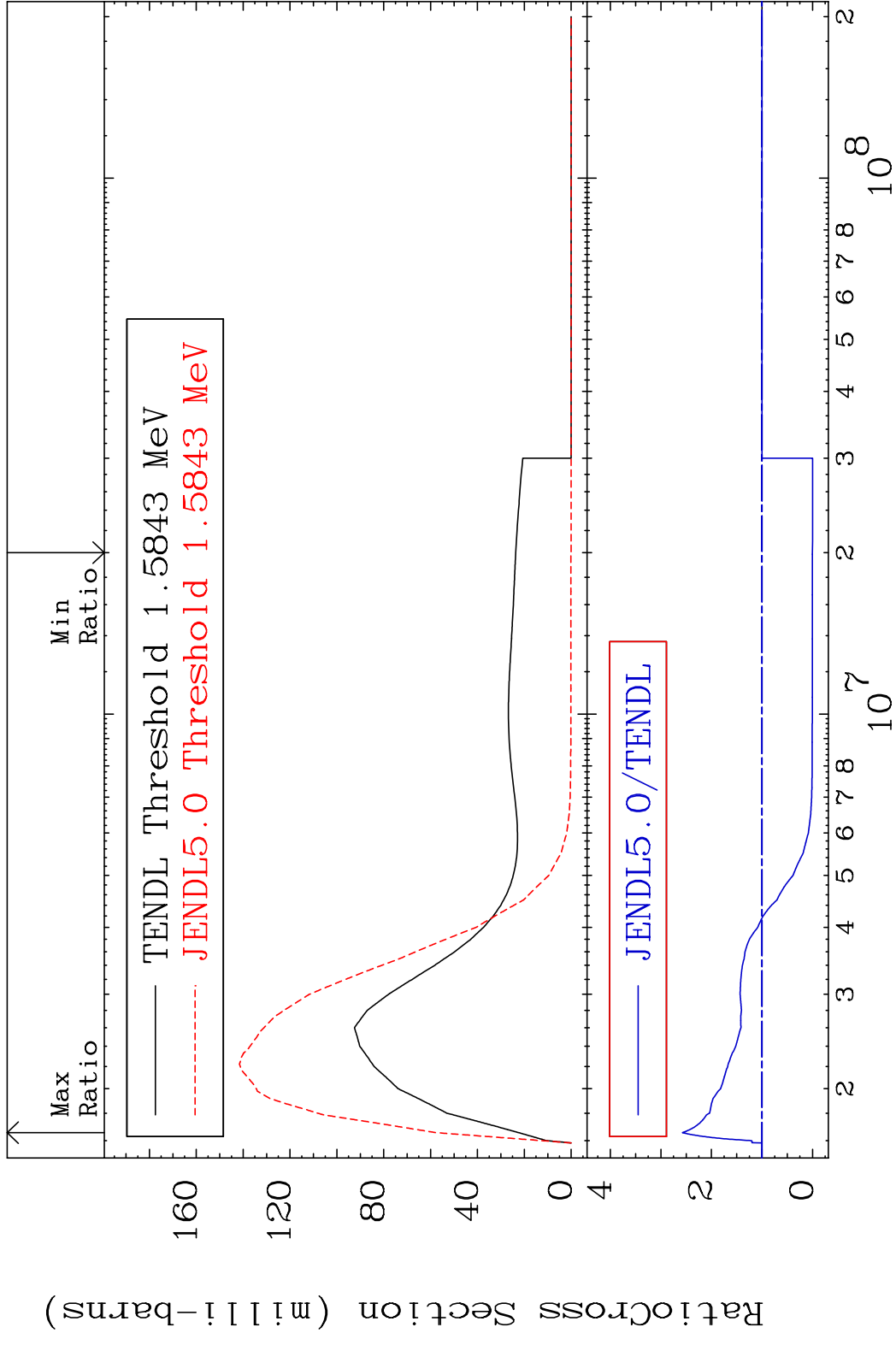
MAT 5819 MT= 55 (n, n') Level 58-Ce-134  
 Cross Section -100.0 To 9999. %



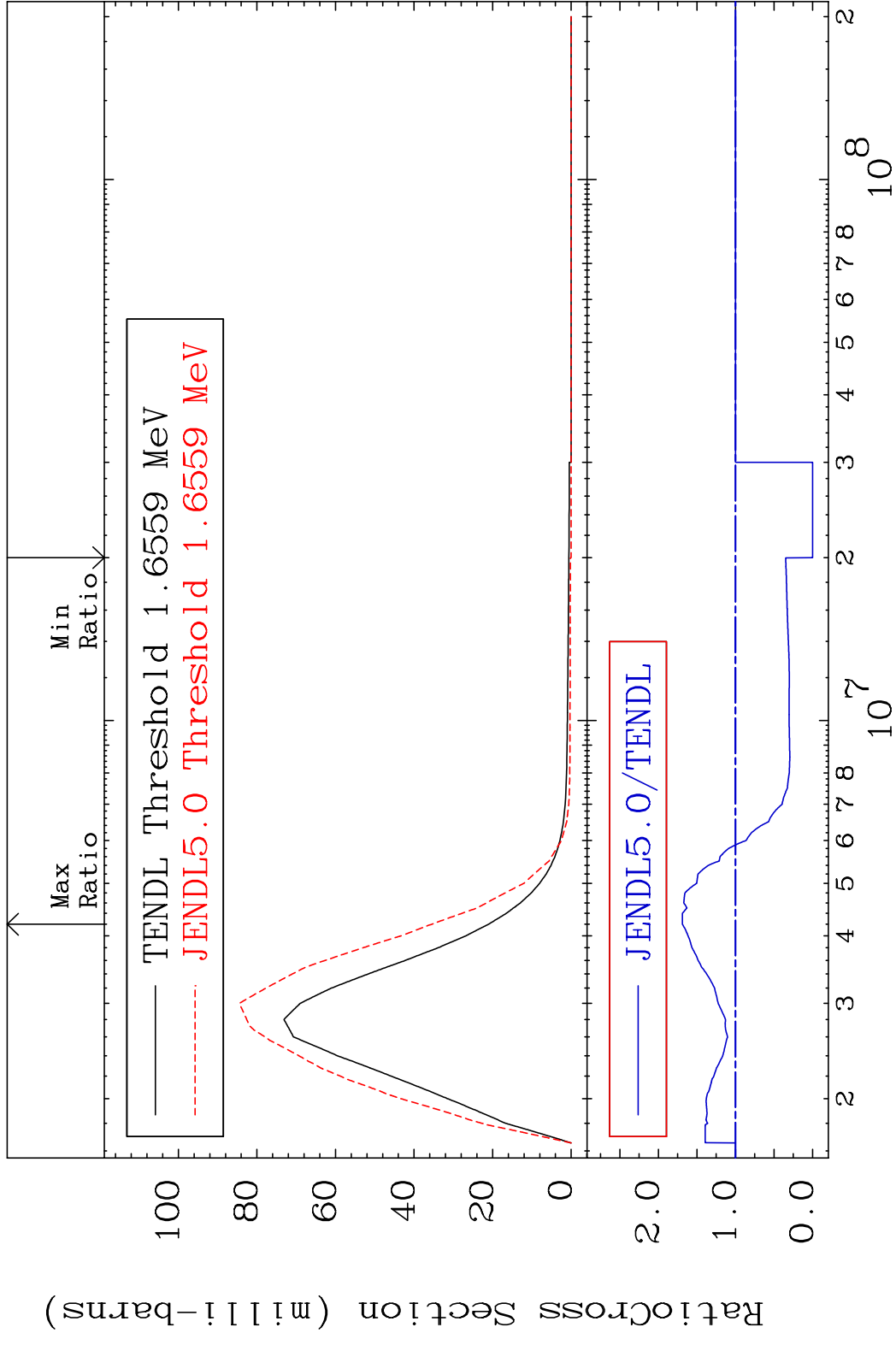
15 58-Ce-134



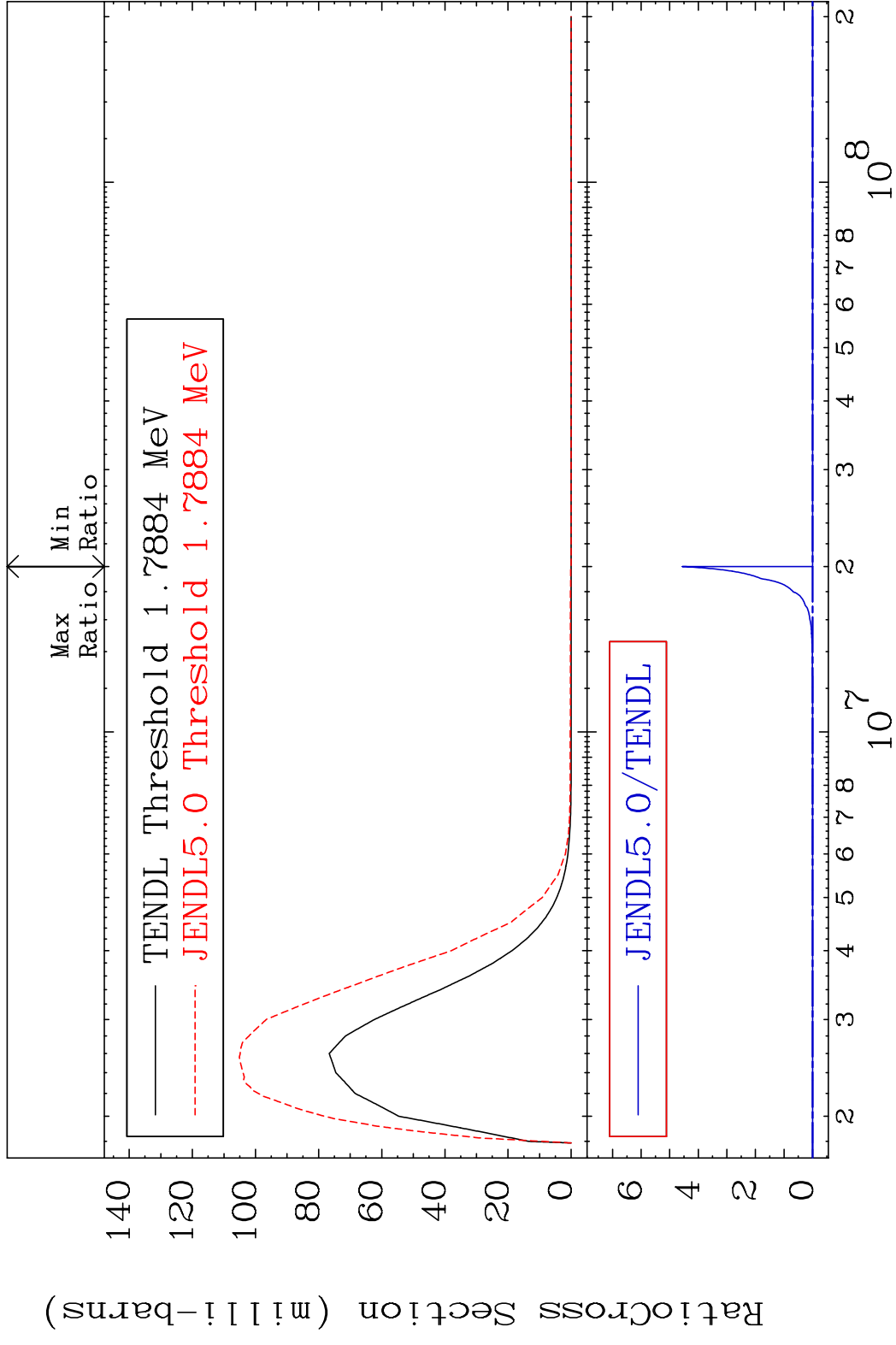
MAT 5819 MT= 56 (n, n') Level 58-Ce-134  
 Cross Section -100.0 To 157.6 %



MAT 5819 MT= 57 (n, n') Level 58-Ce-134  
 Cross Section -100.0 To 68.90 %

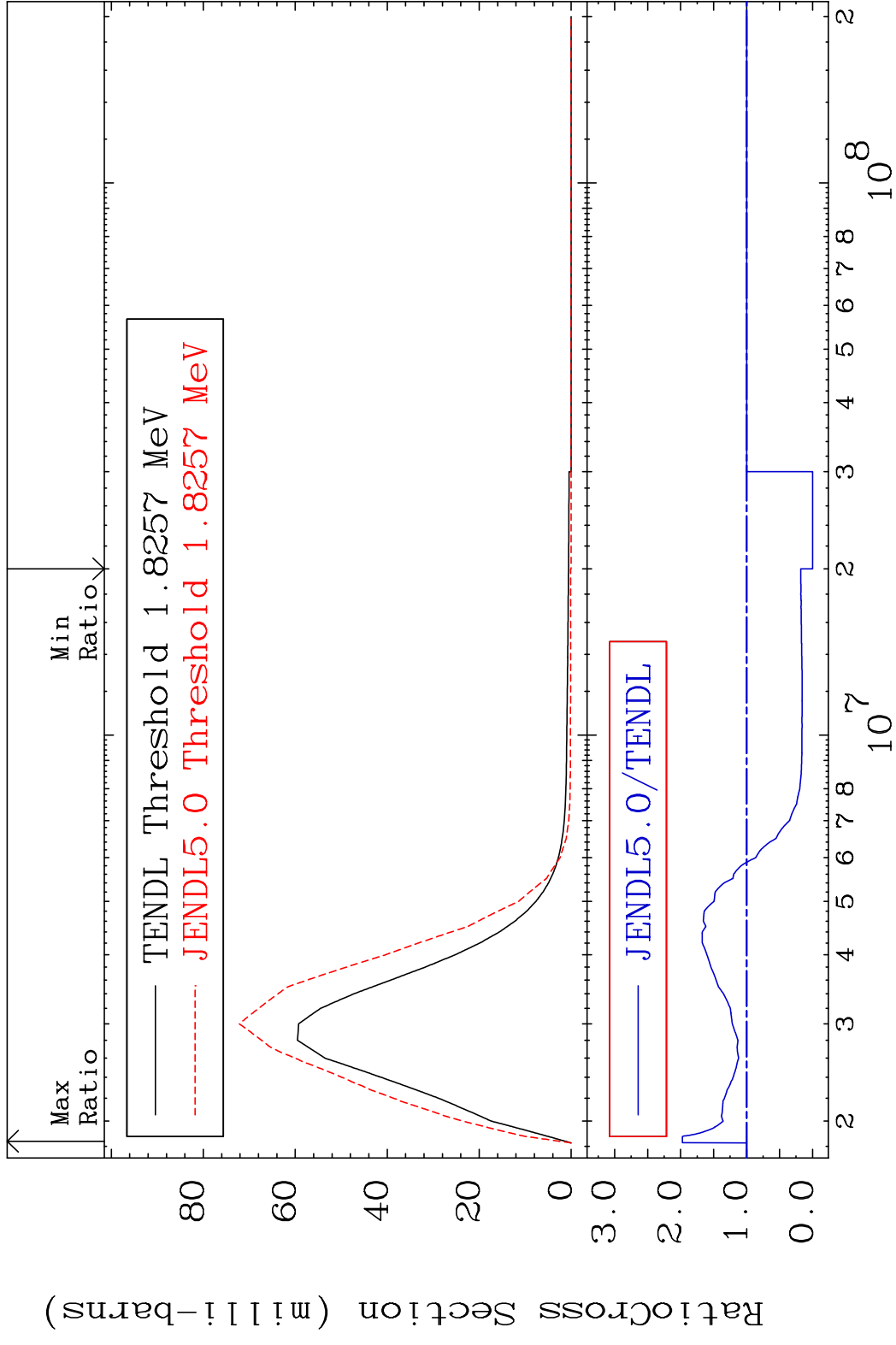


MAT 5819 MT= 58 (n, n') Level 58-Ce-134  
 Cross Section -100.0 To 9999. %

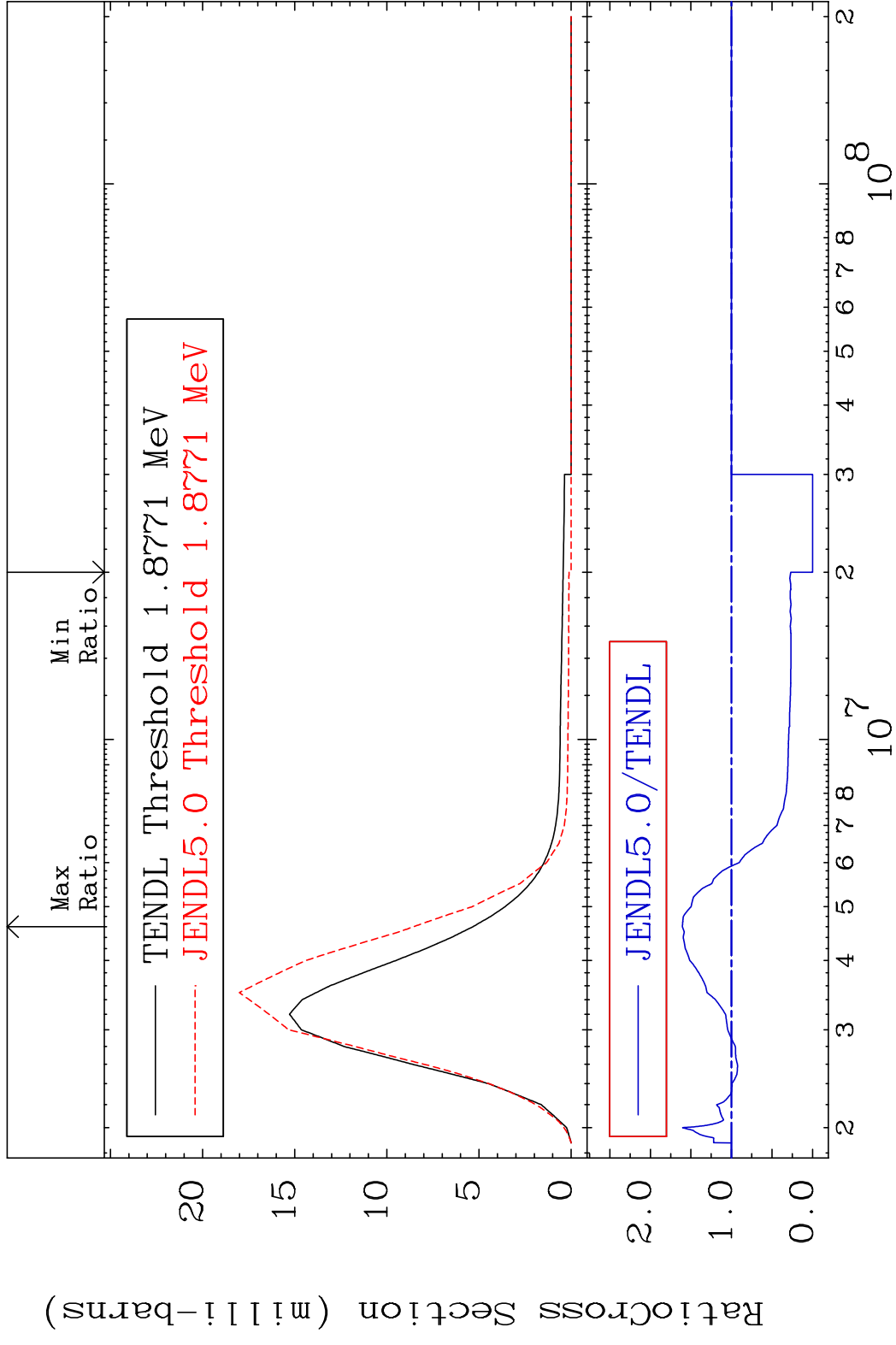


18 Incident Energy (eV) 58-Ce-134

MAT 5819      MT= 59 (n, n') Level      58-Ce-134  
 Cross Section    -100.0 To 97.39 %

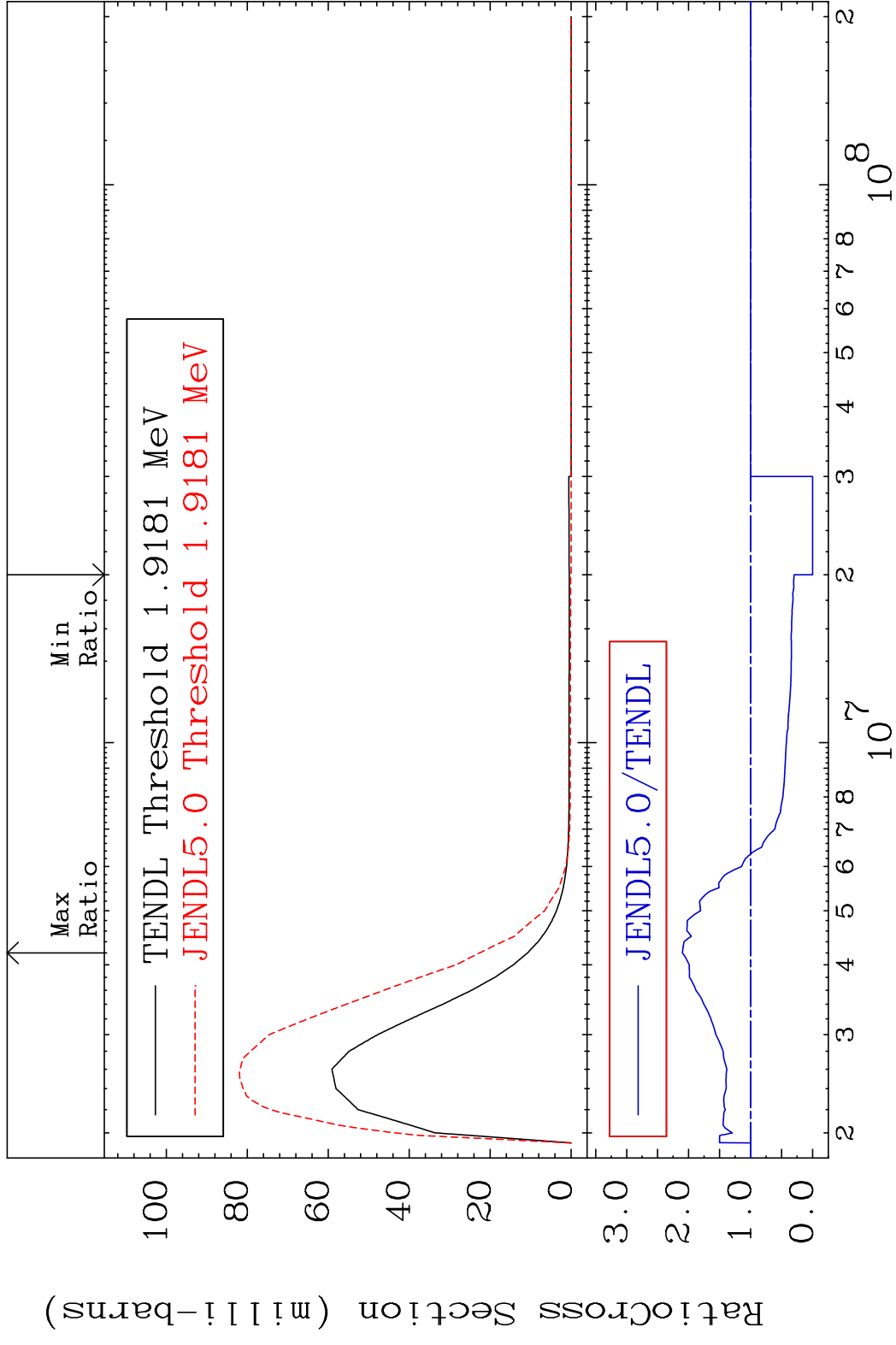


MAT 5819 MT= 60 (n, n') Level 58-Ce-134  
 Cross Section -100.0 To 60.57 %

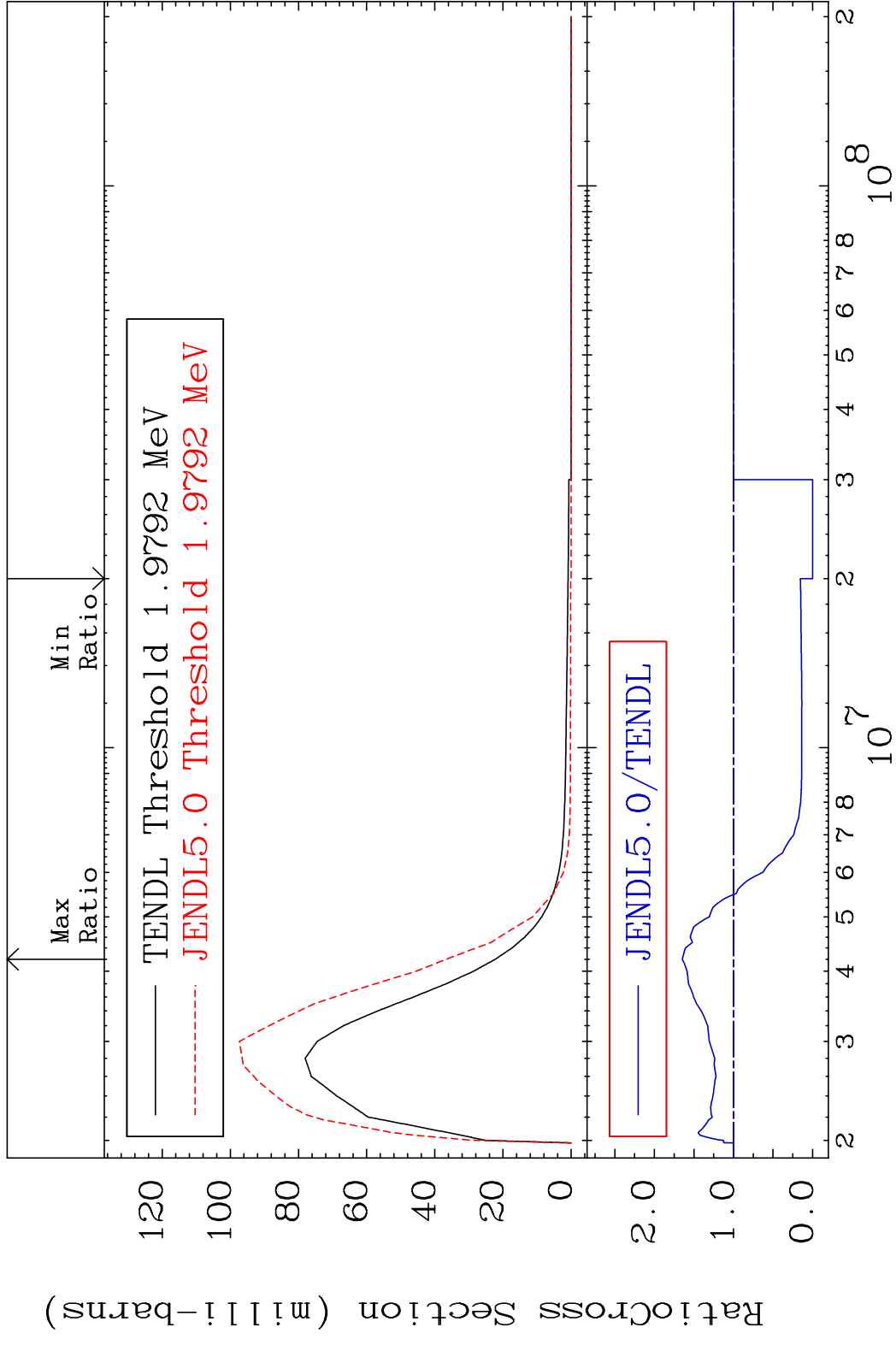


20 58-Ce-134

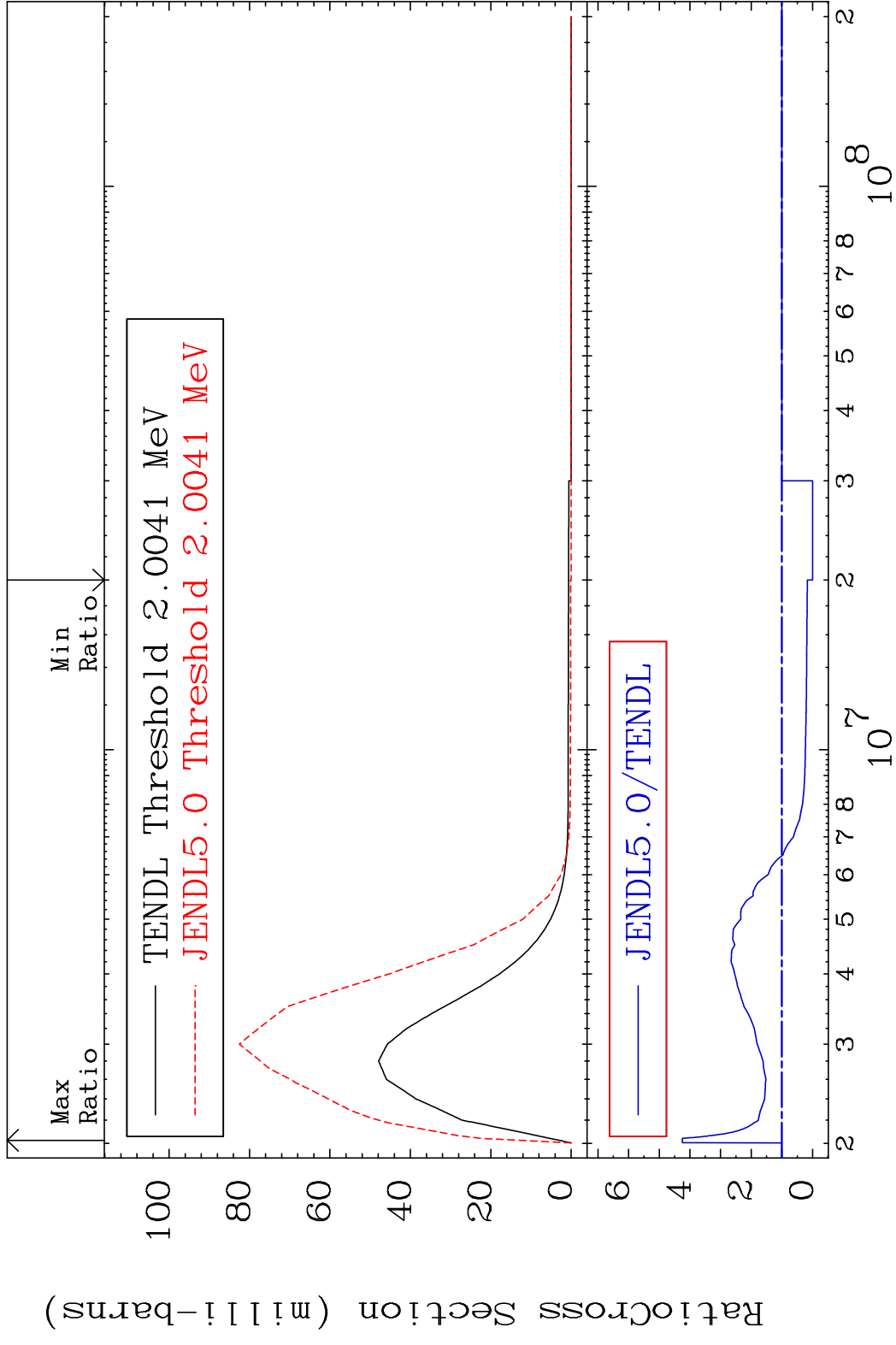
MAT 5819 MT= 61 (n, n') Level 58-Ce-134  
 Cross Section -100.0 To 110.1 %



MAT 5819 MT= 62 (n, n') Level 58-Ce-134  
 Cross Section -100.0 To 64.61 %

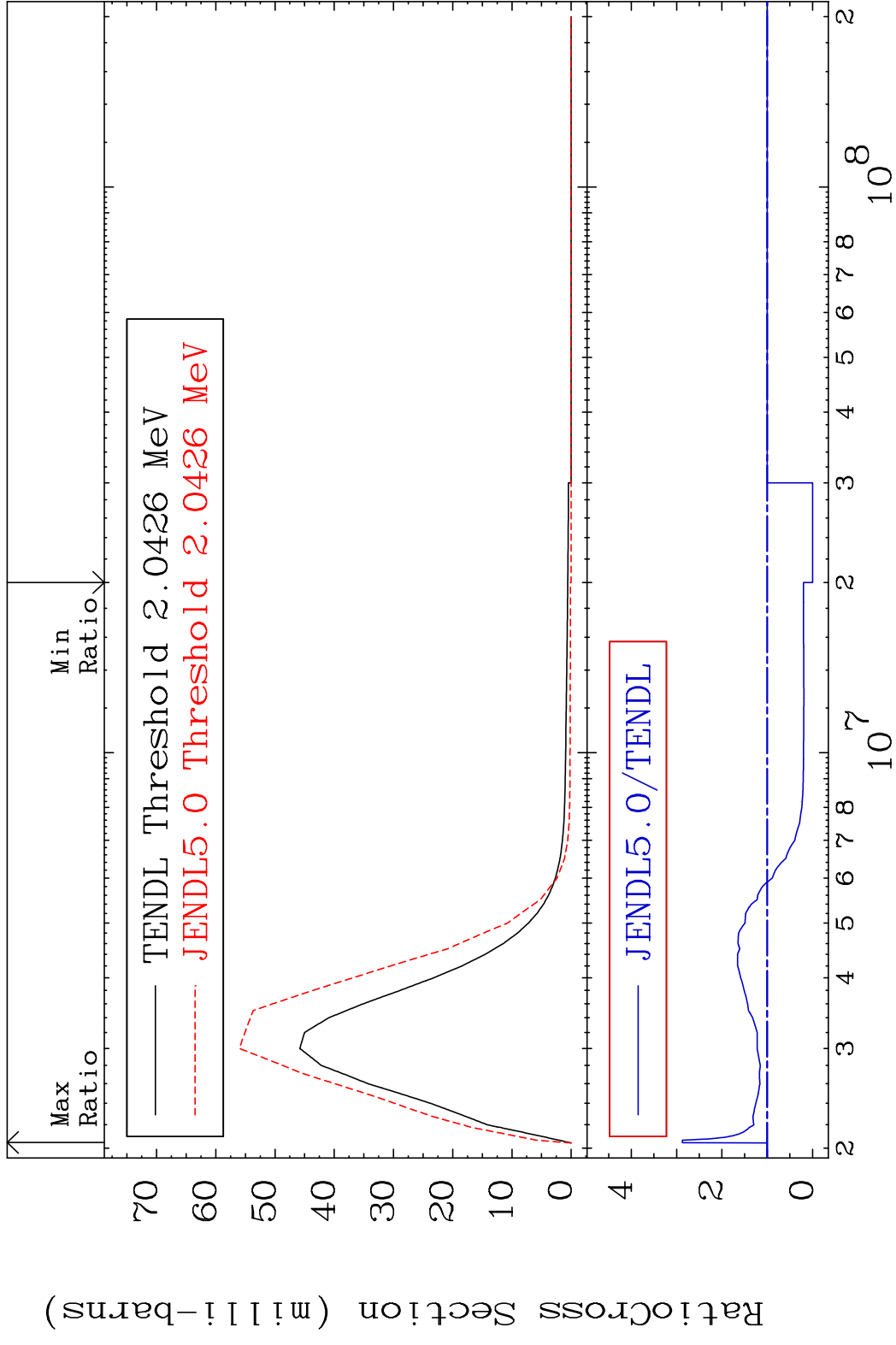


MAT 5819 MT= 63 (n, n') Level 58-Ce-134  
 Cross Section -100.0 To 324.6 %

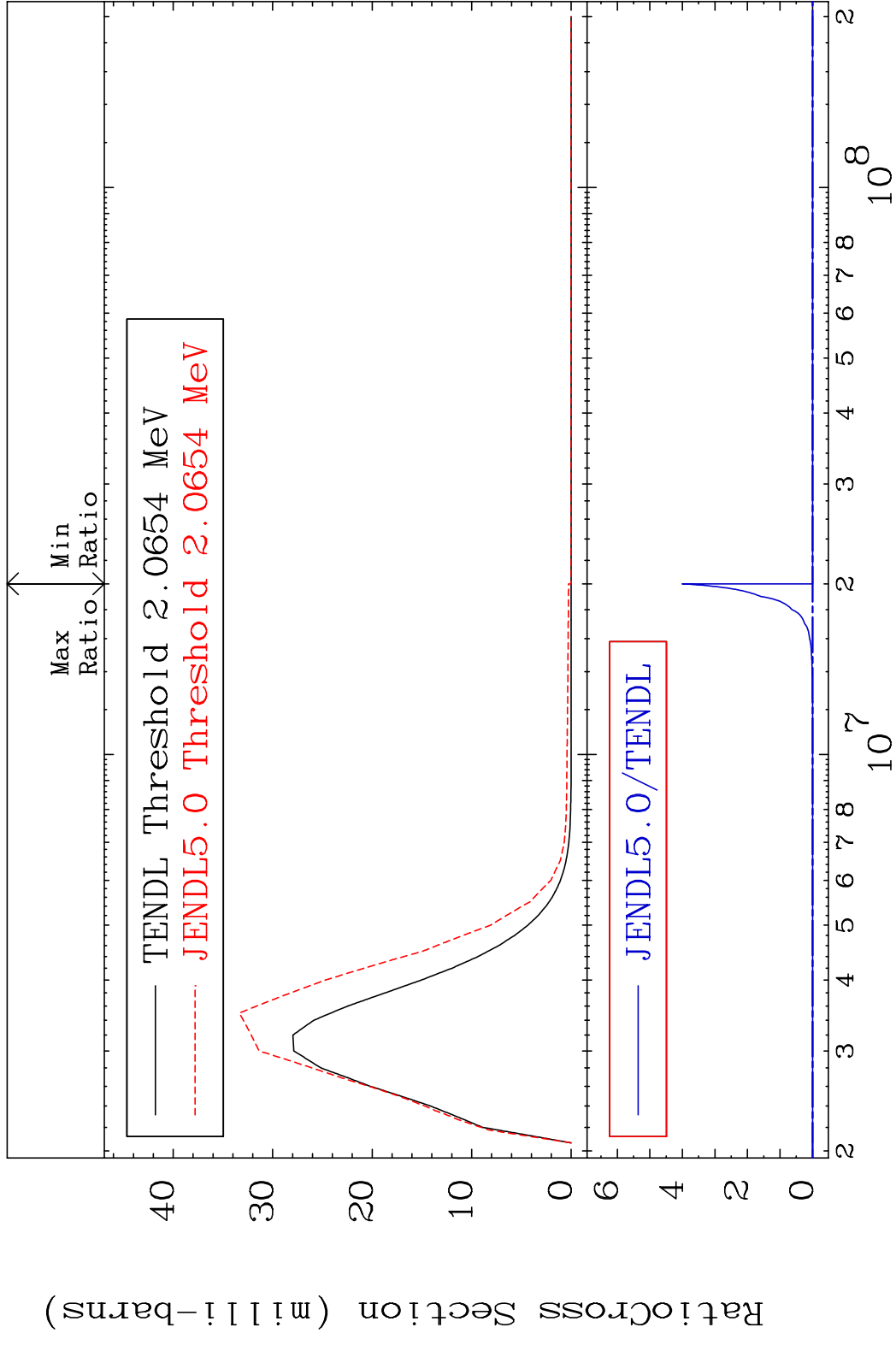




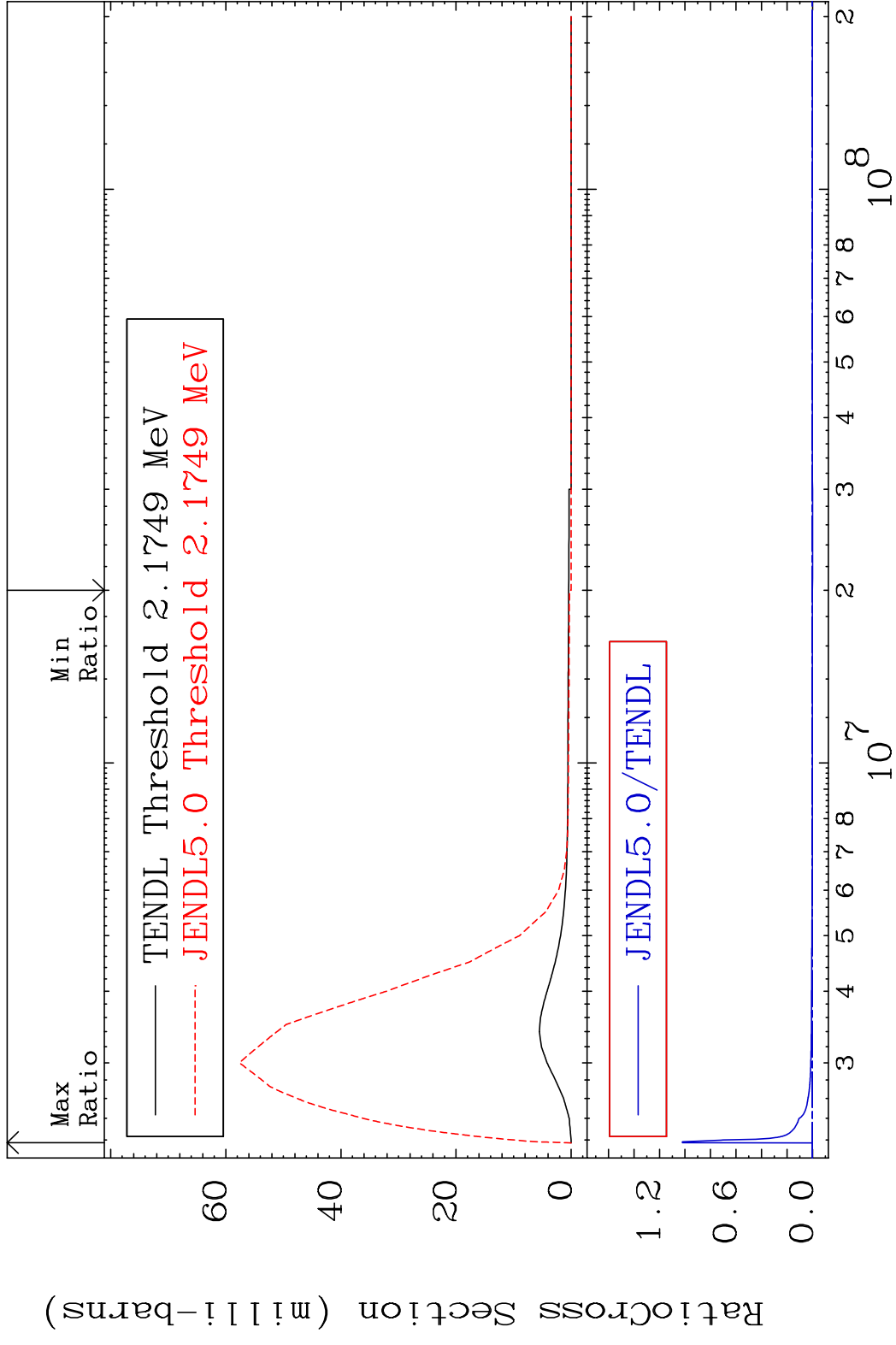
MAT 5819 MT= 64 (n, n') Level 58-Ce-134  
 Cross Section -100.0 To 187.4 %



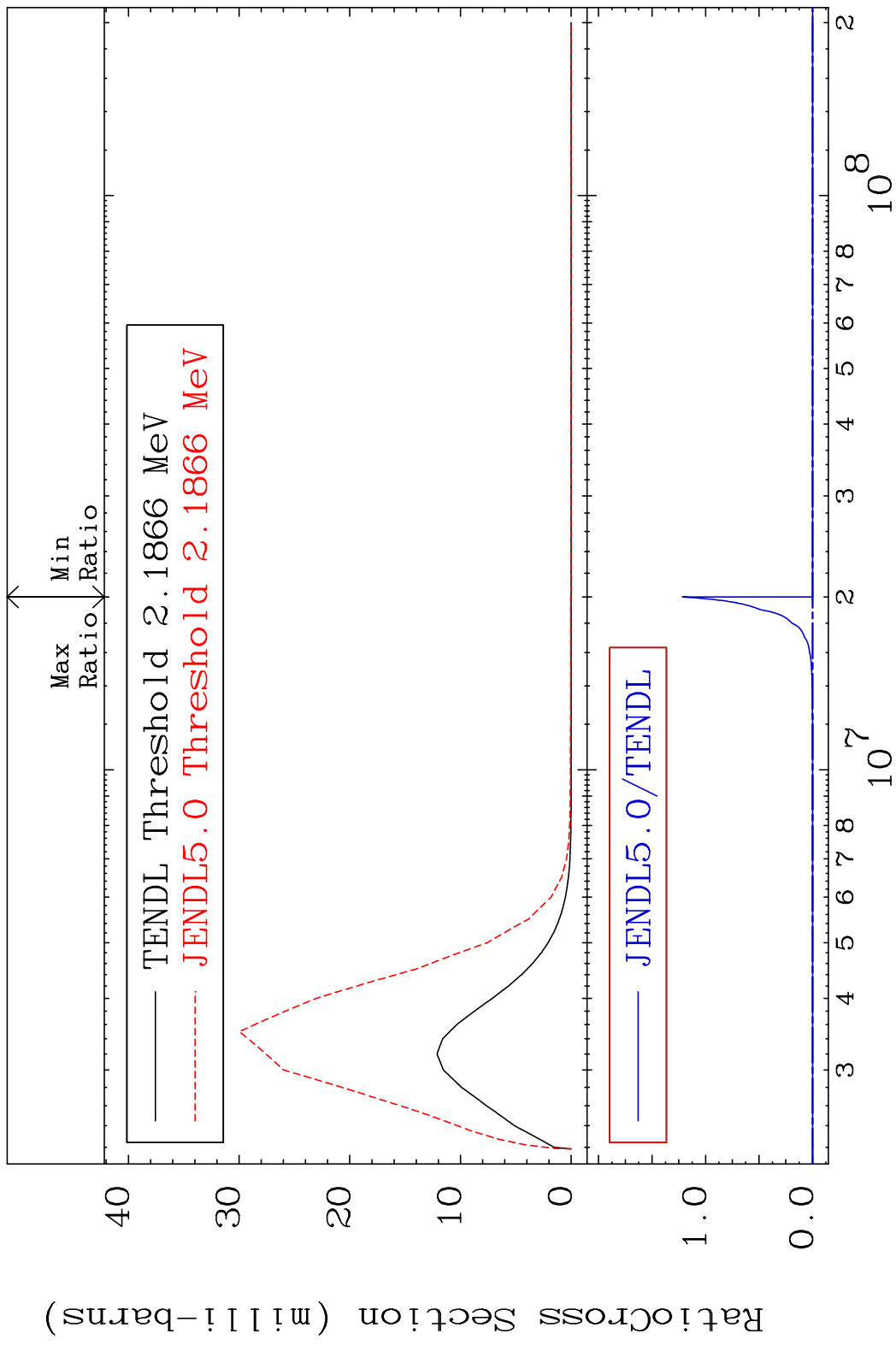
MAT 5819 MT= 65 (n, n') Level 58-Ce-134  
 Cross Section -100.0 To 9999. %



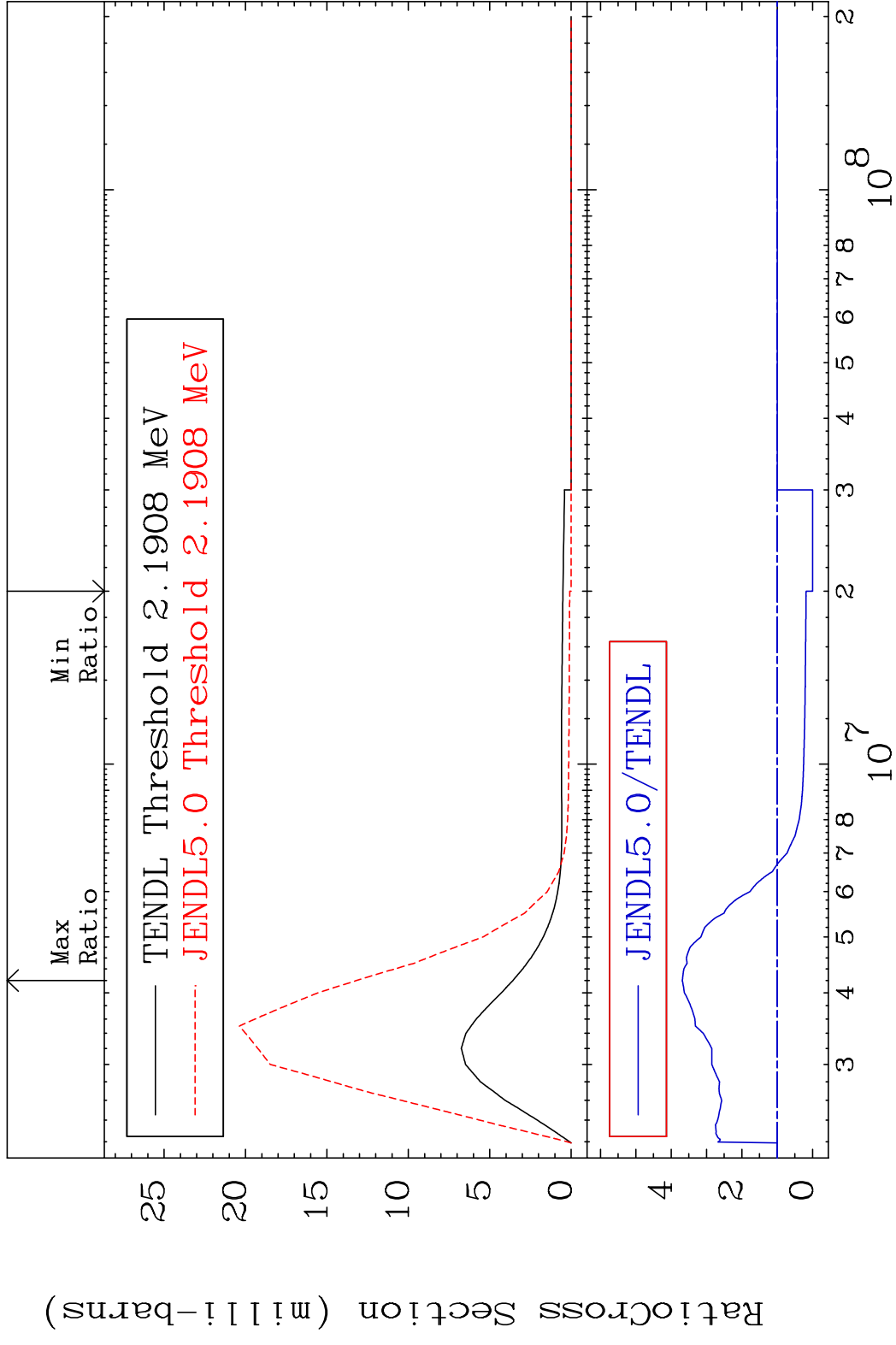
MAT 5819 MT= 66 (n,n') Level 58-Ce-134  
 Cross Section -100.0 To 9999. %



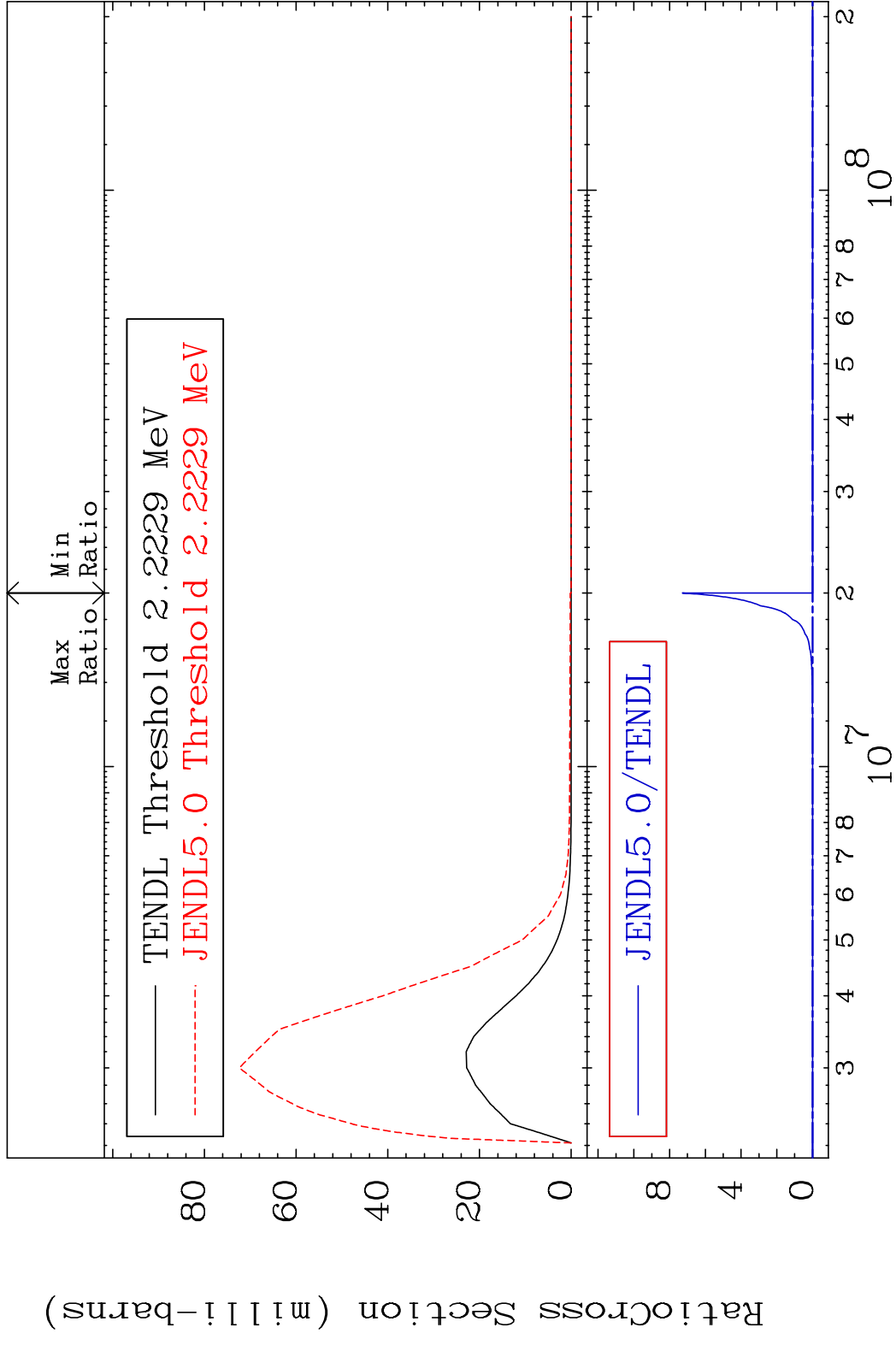
MAT 5819 MT= 67 (n, n') Level 58-Ce-134  
 Cross Section -100.0 To 9999. %



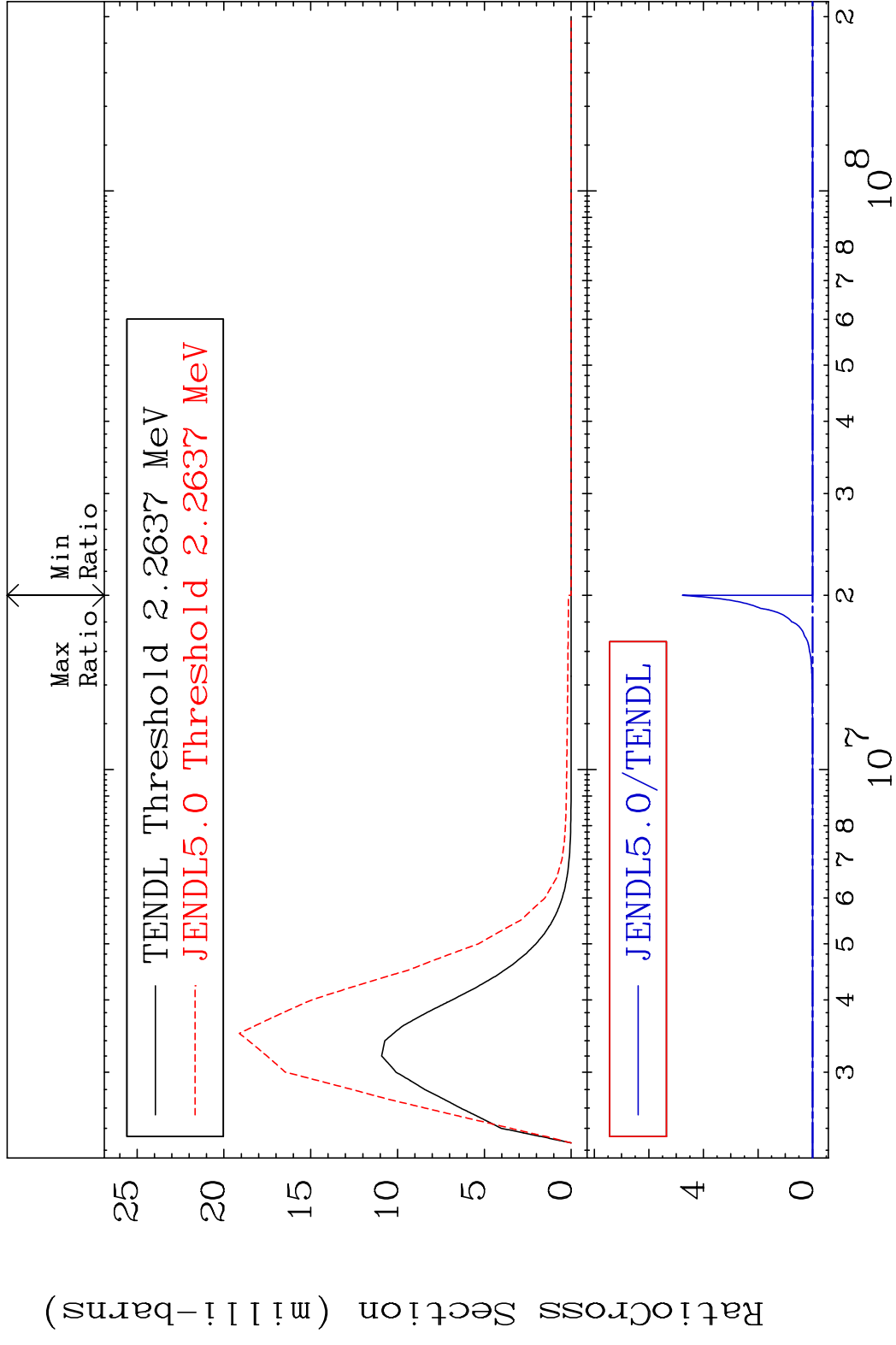
MAT 5819 MT= 68 (n, n') Level 58-Ce-134  
 Cross Section -100.0 To 268.3 %



MAT 5819 MT= 69 (n, n') Level 58-Ce-134  
 Cross Section -100.0 To 9999. %

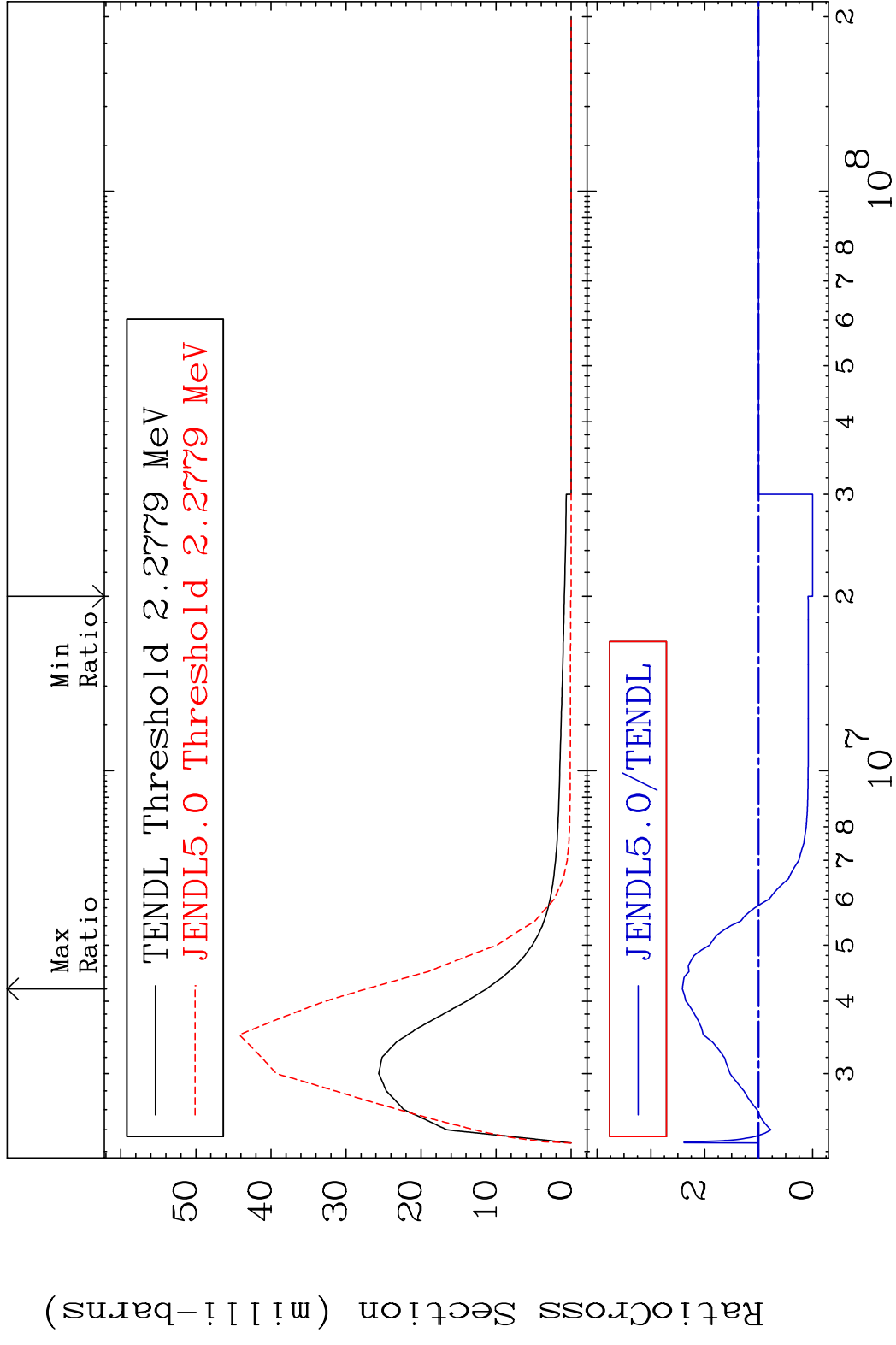


MAT 5819 MT= 70 (n, n') Level 58-Ce-134  
 Cross Section -100.0 To 9999. %



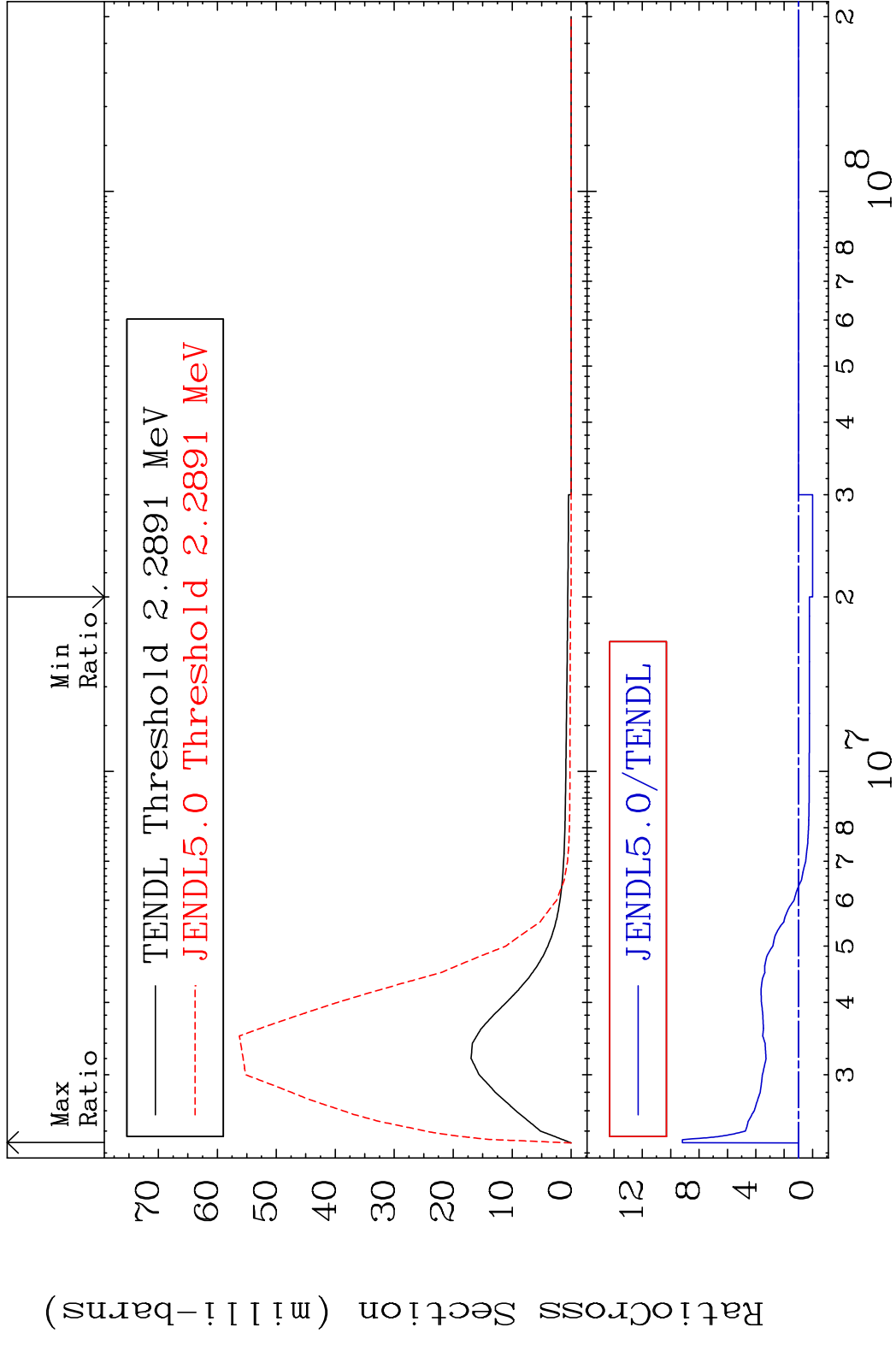
30 58-Ce-134

MAT 5819 MT= 71 (n,n') Level 58-Ce-134  
 Cross Section -100.0 To 141.6 %

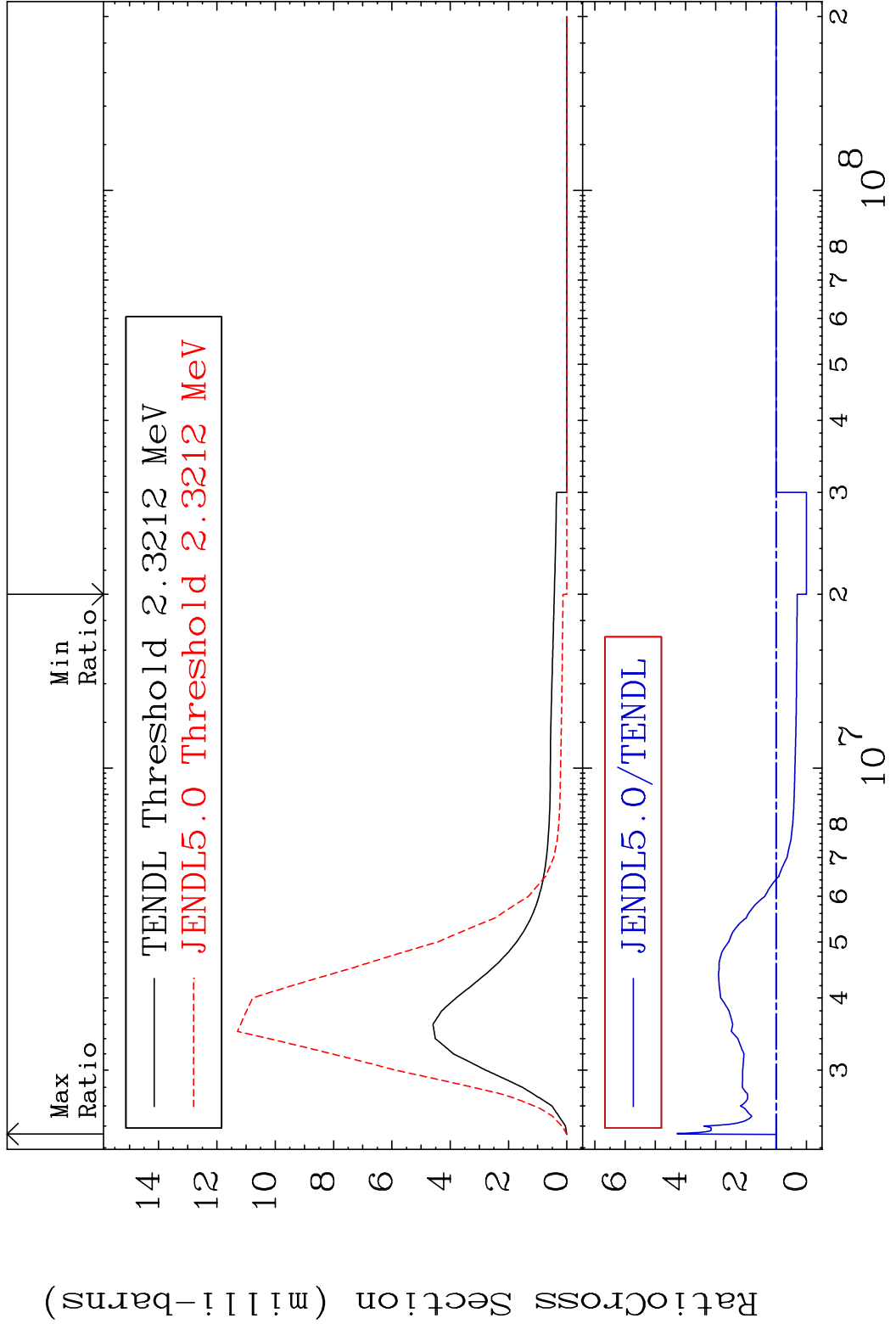




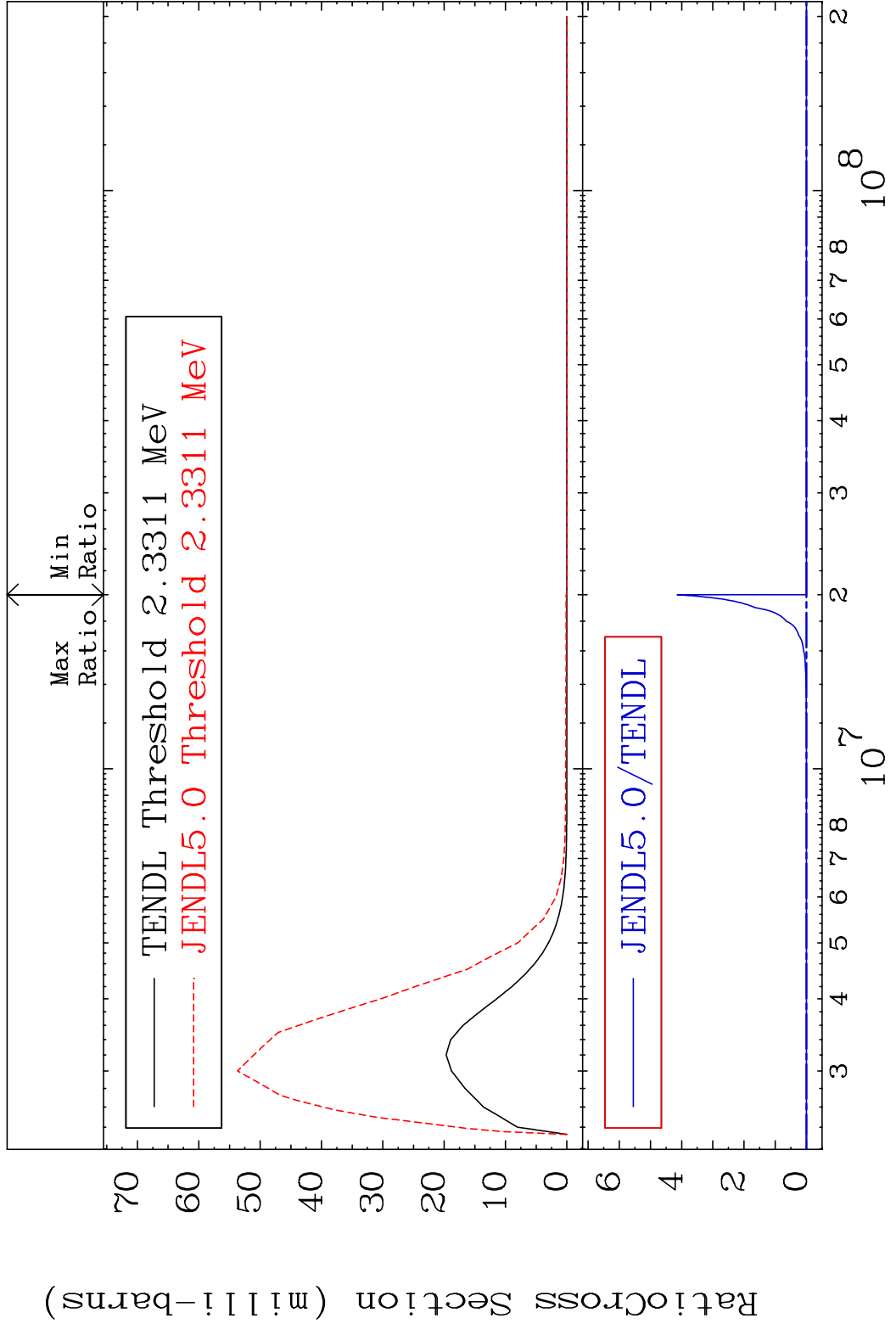
MAT 5819      MT= 72 (n, n') Level      58-Ce-134  
 Cross Section    -100.0 To 817.8 %



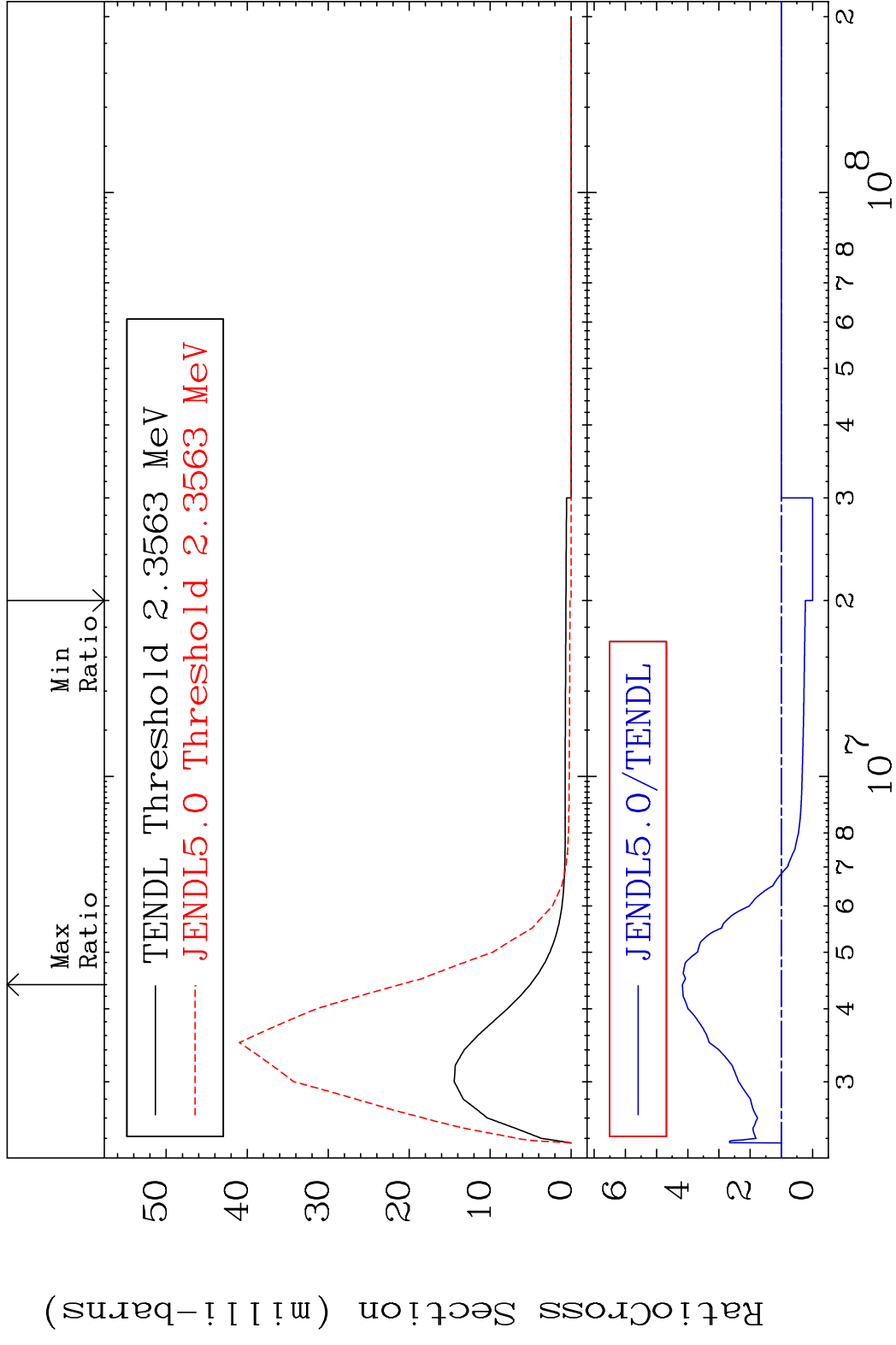
MAT 5819 MT= 73 (n,n') Level 58-Ce-134  
 Cross Section -100.0 To 327.5 %



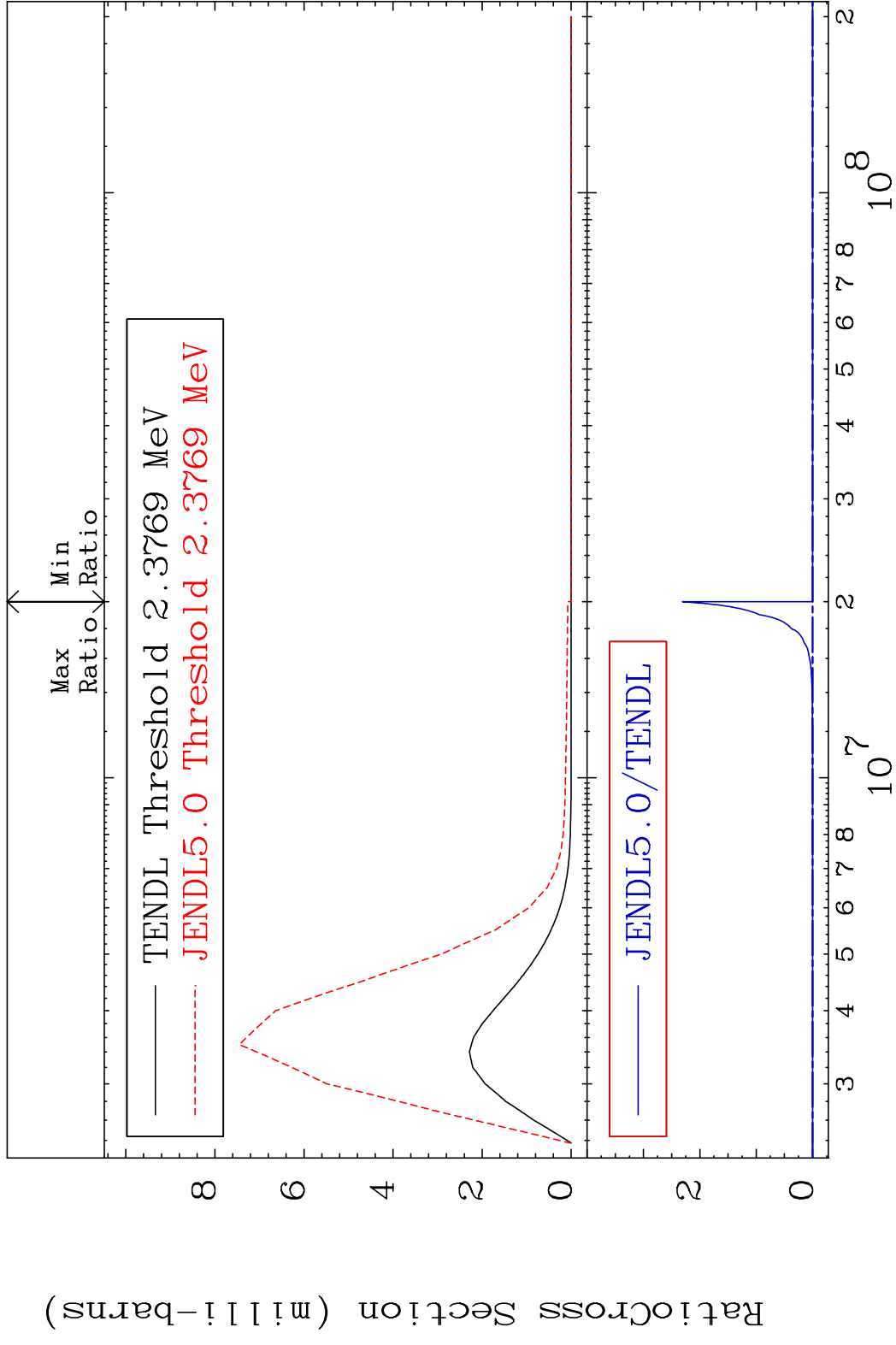
MAT 5819 MT= 74 (n, n') Level 58-Ce-134  
 Cross Section -100.0 To 9999. %



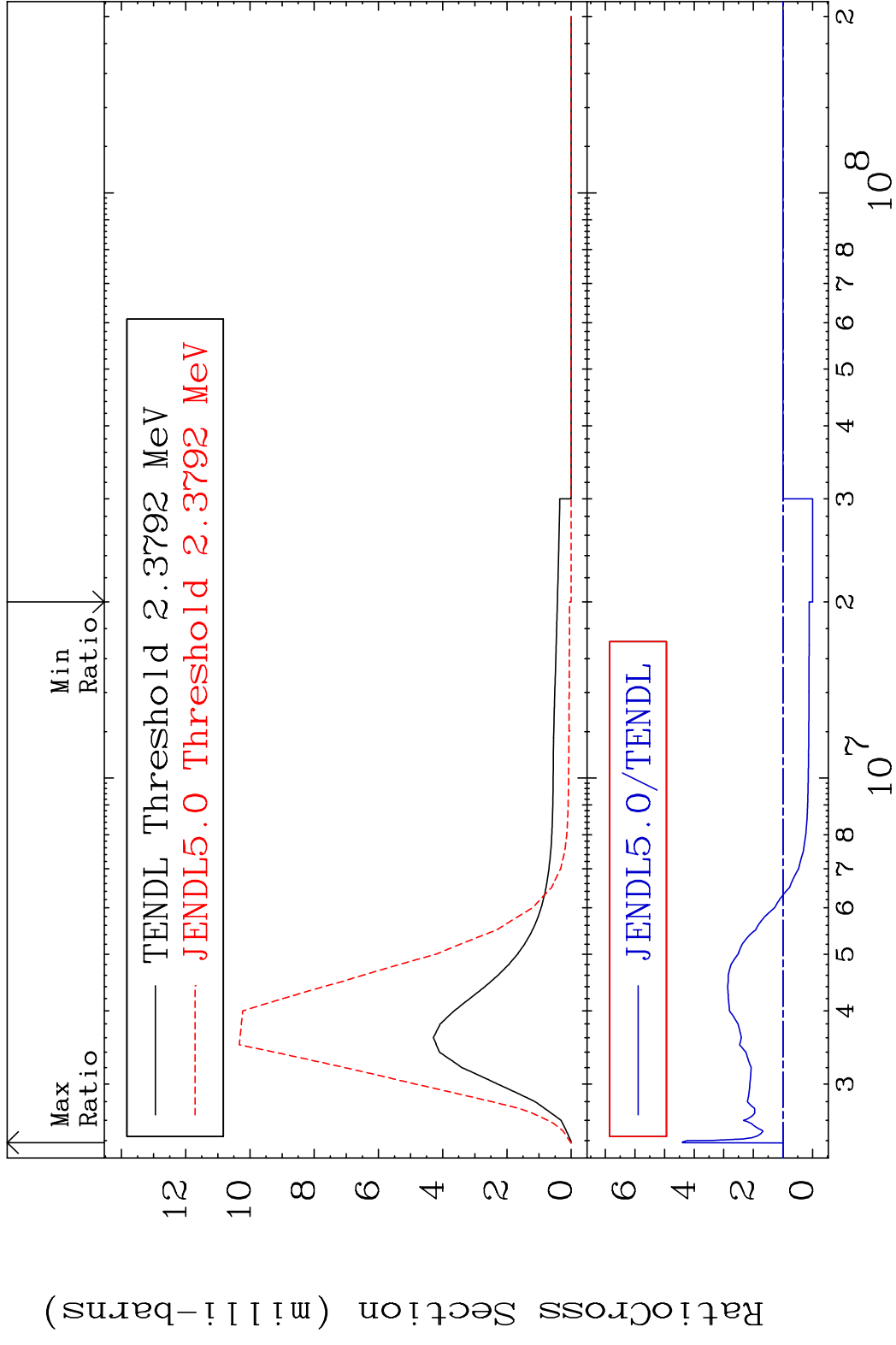
MAT 5819 MT= 75 (n,n') Level 58-Ce-134  
 Cross Section -100.0 To 317.4 %



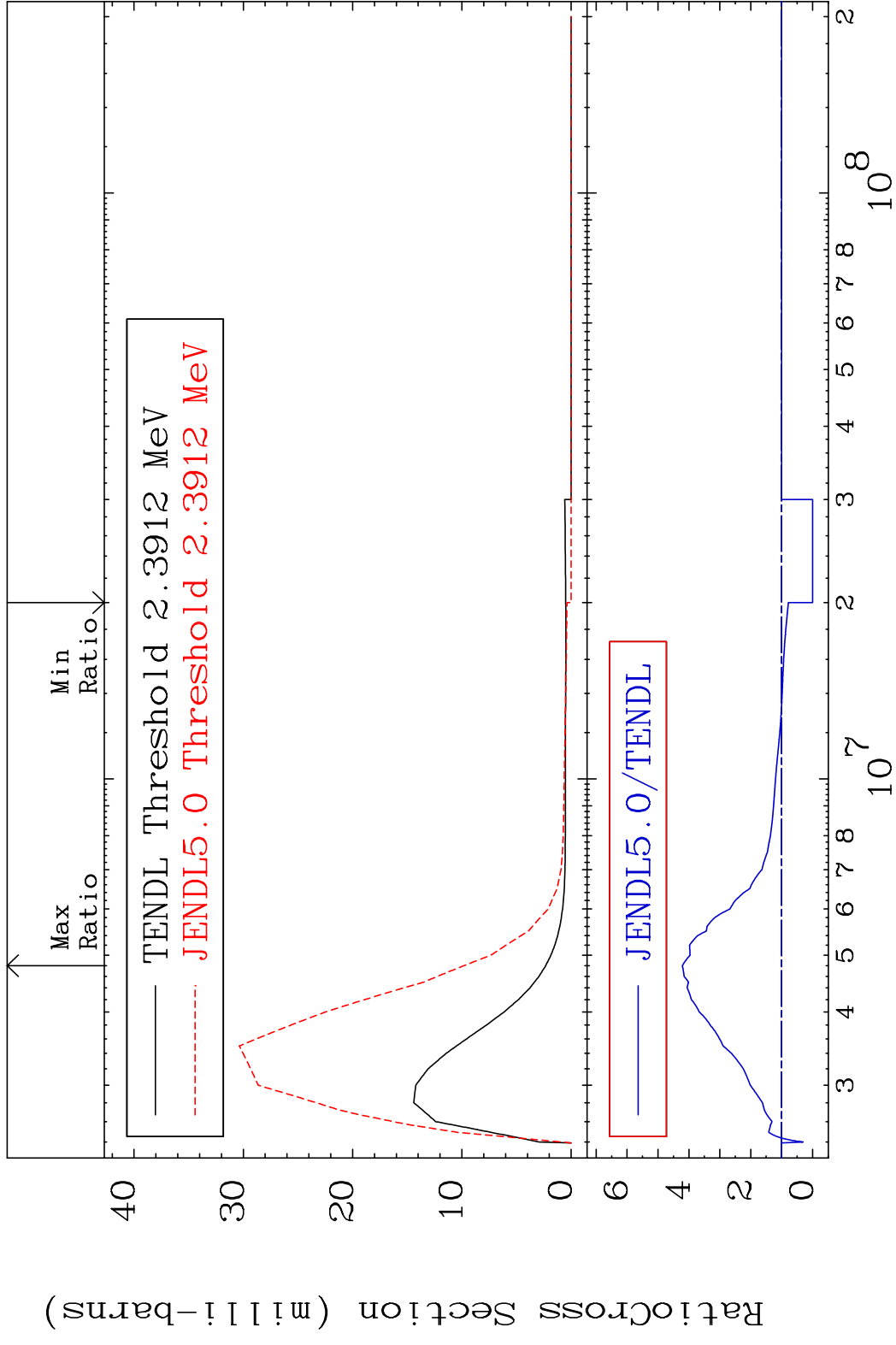
MAT 5819 MT= 76 (n, n') Level 58-Ce-134  
 Cross Section -100.0 To 9999. %



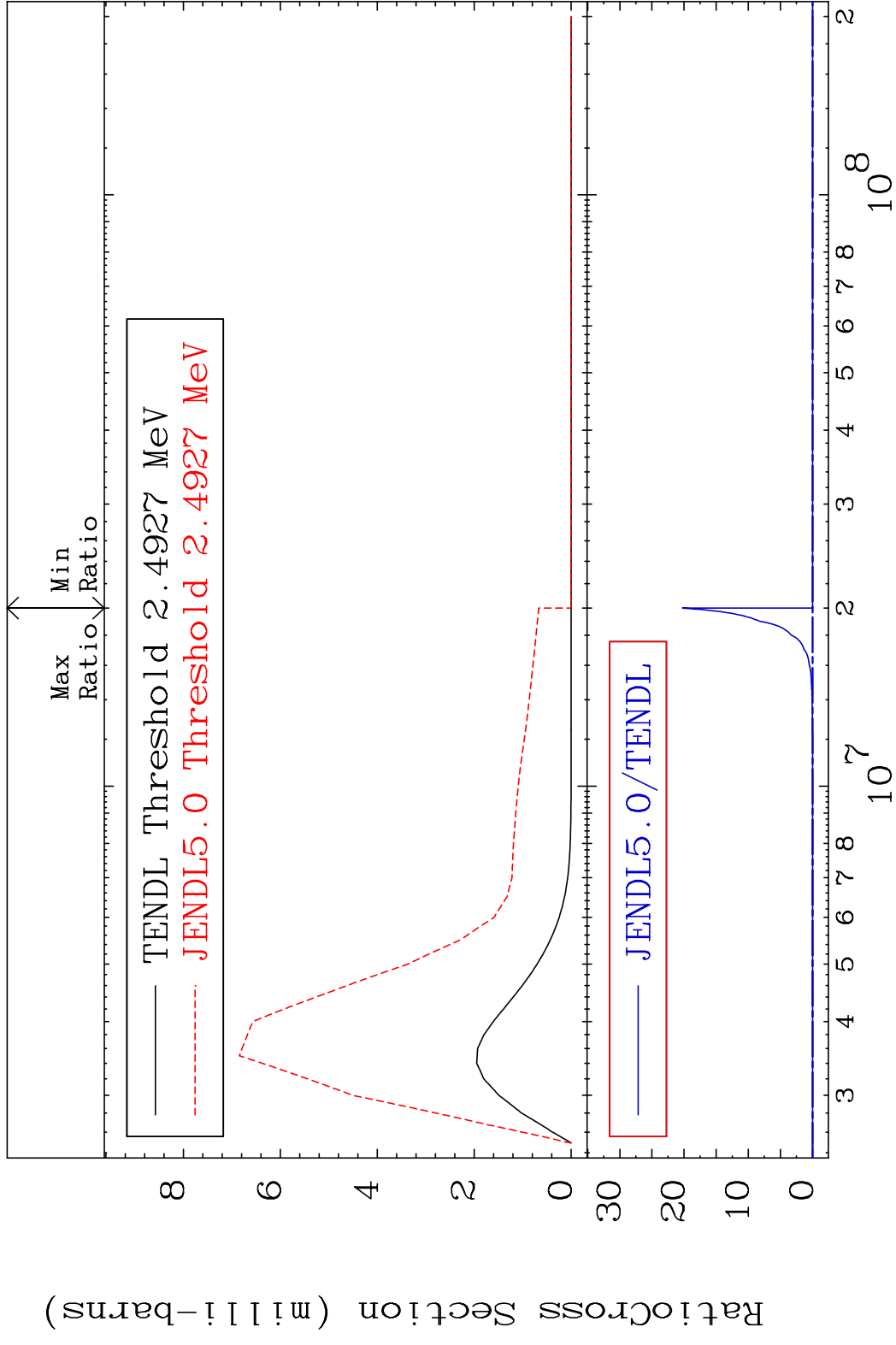
MAT 5819      MT= 77 (n,n') Level      58-Ce-134  
 Cross Section    -100.0 To 340.0 %



MAT 5819 MT= 78 (n, n') Level 58-Ce-134  
 Cross Section -100.0 To 321.1 %

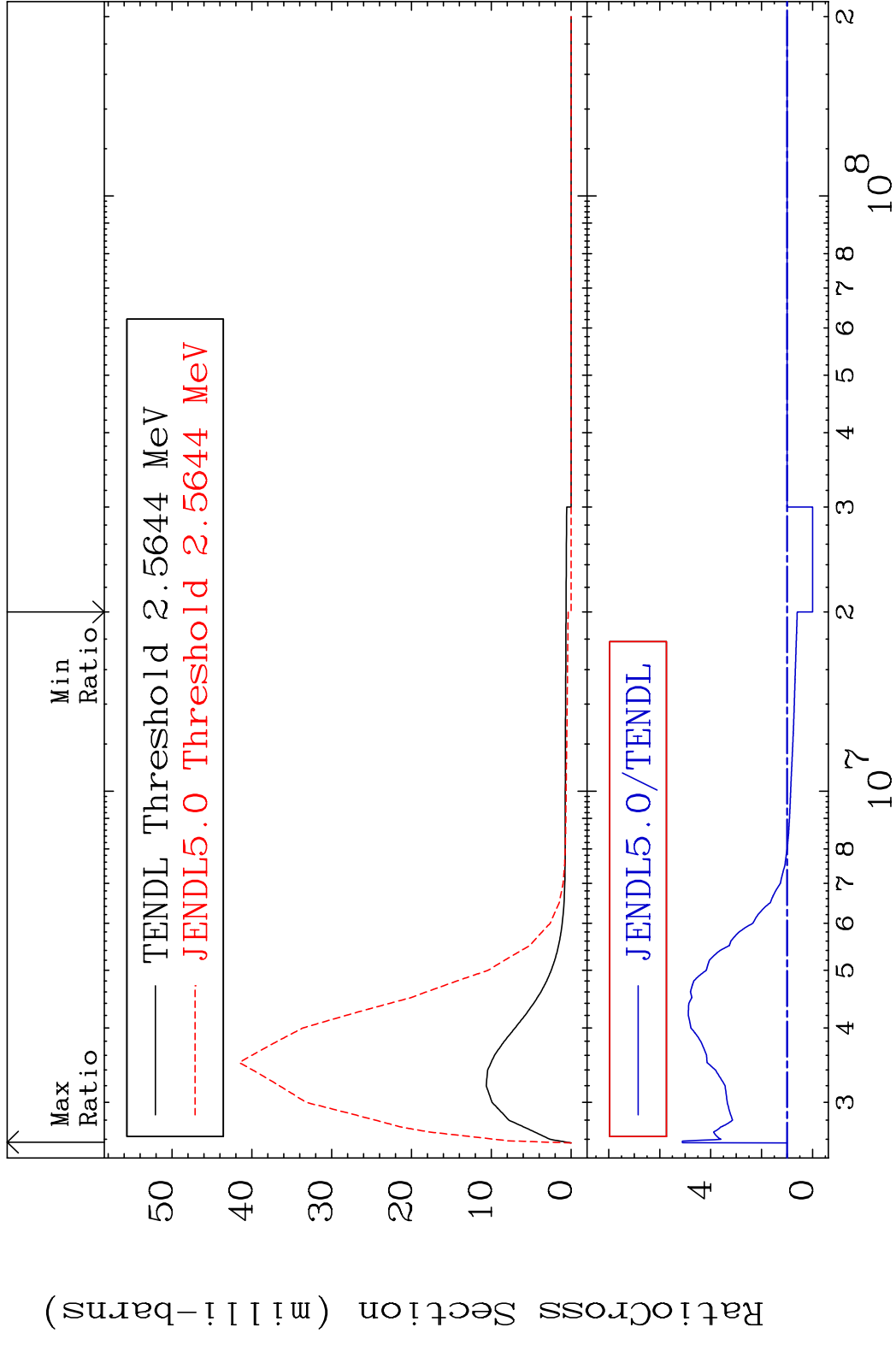


MAT 5819 MT= 79 (n, n') Level 58-Ce-134  
 Cross Section -100.0 To 9999. %





MAT 5819 MT= 80 (n,n') Level 58-Ce-134  
 Cross Section -100.0 To 411.2 %



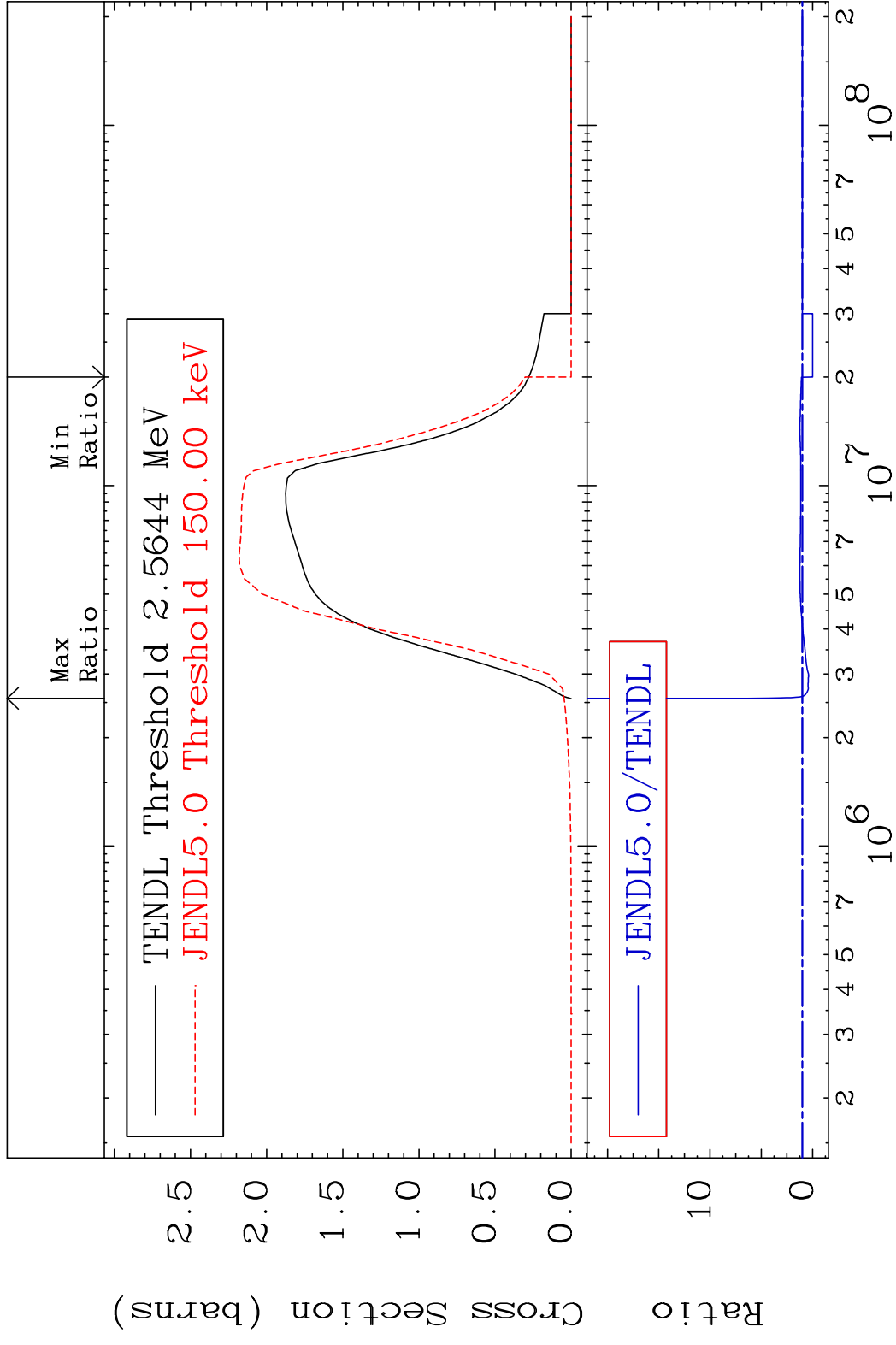
40 Incident Energy (eV) 58-Ce-134

MAT 5819

(n, n') Continuum

58-Ce-134

Cross Section -100.0 To 1170. %

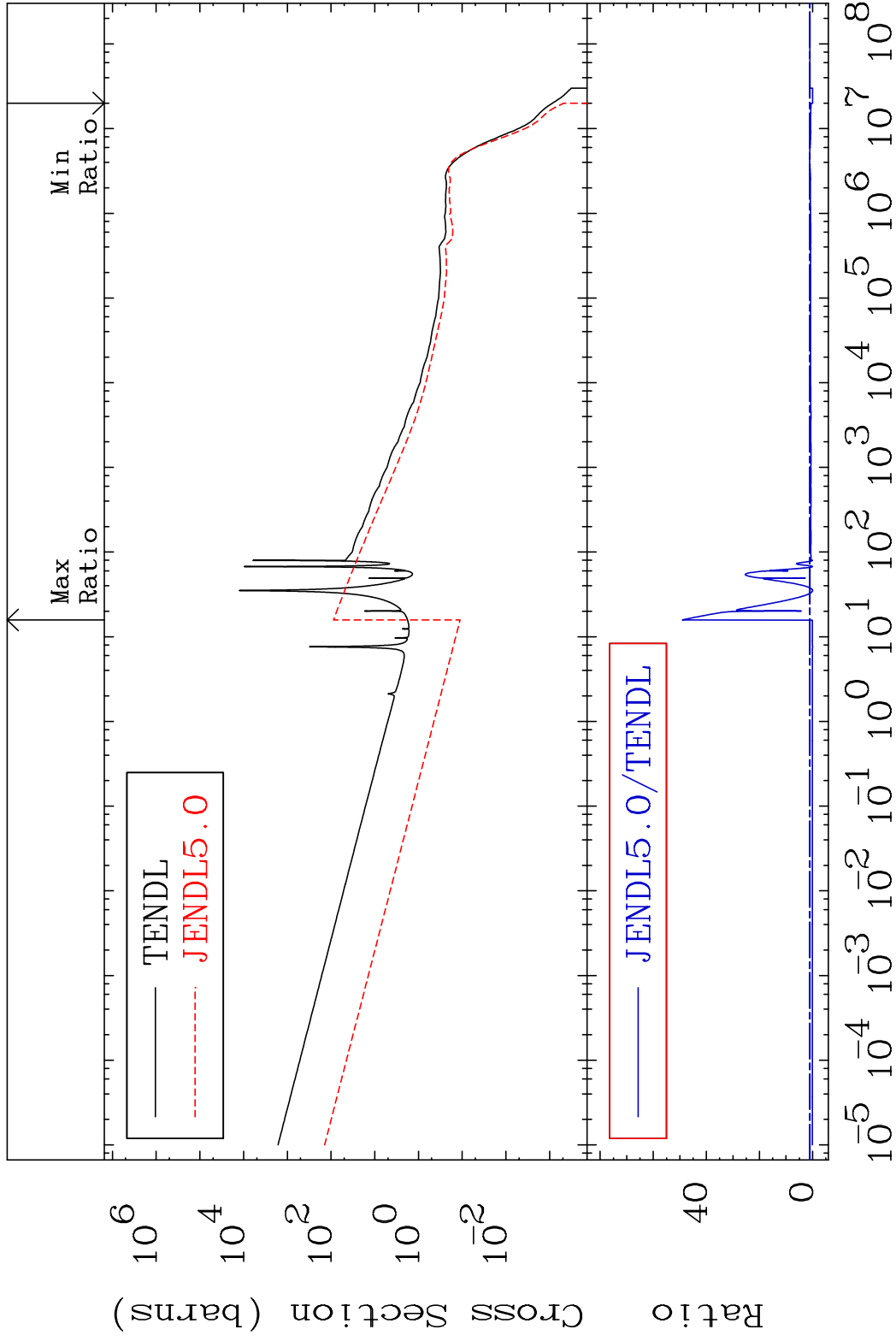


MAT 5819

(n,  $\gamma$ )

58-Ce-134

Cross Section -100.0 To 4804. %



42

Incident Energy (eV)

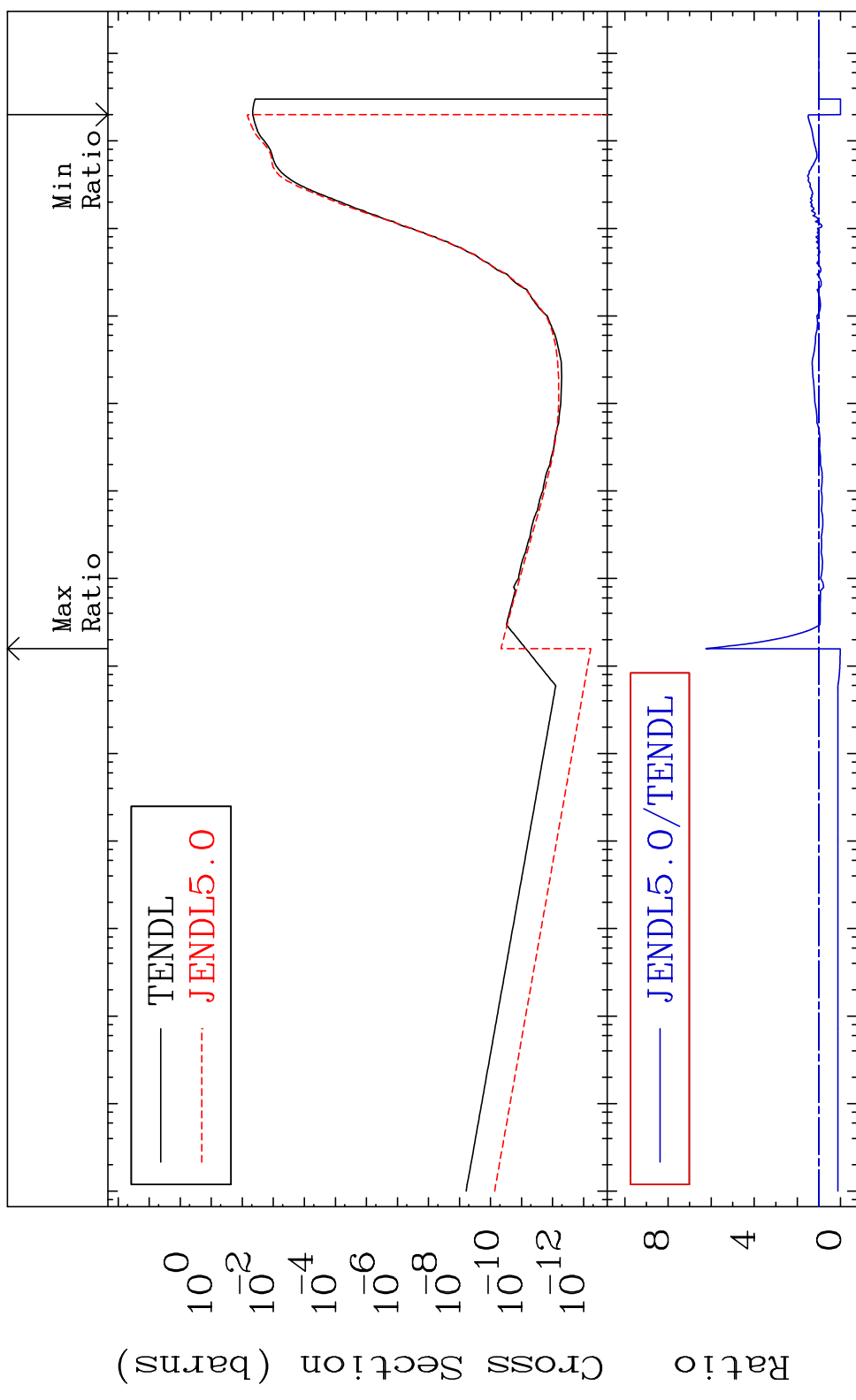
58-Ce-134

MAT 5819

(n, p)

58-Ce-134

Cross Section -100.0 To 524.8 %

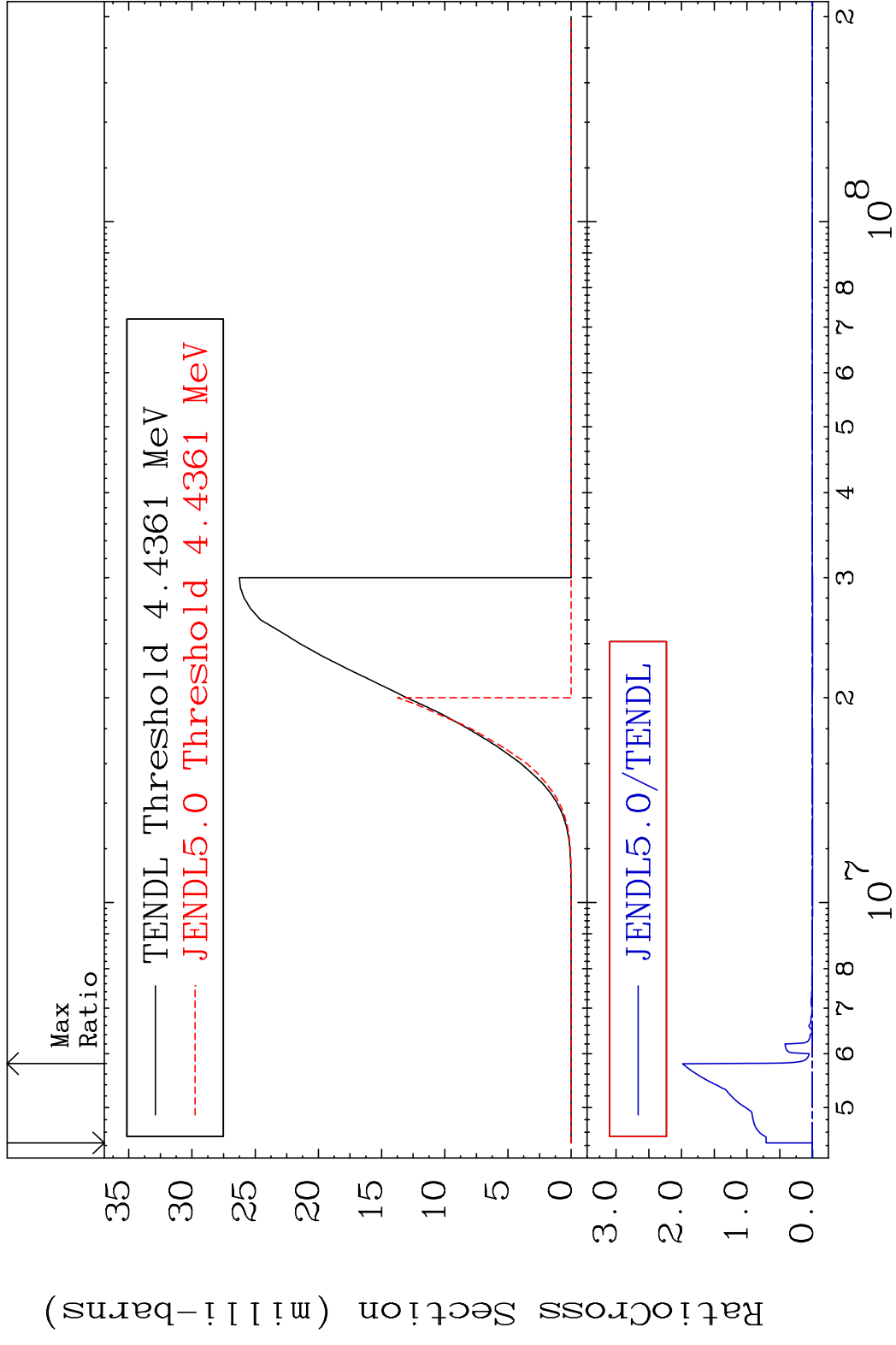


43

Incident Energy (eV)

58-Ce-134

MAT 5819 (n,d) 58-Ce-134  
 Cross Section -100.0 To 9999. %

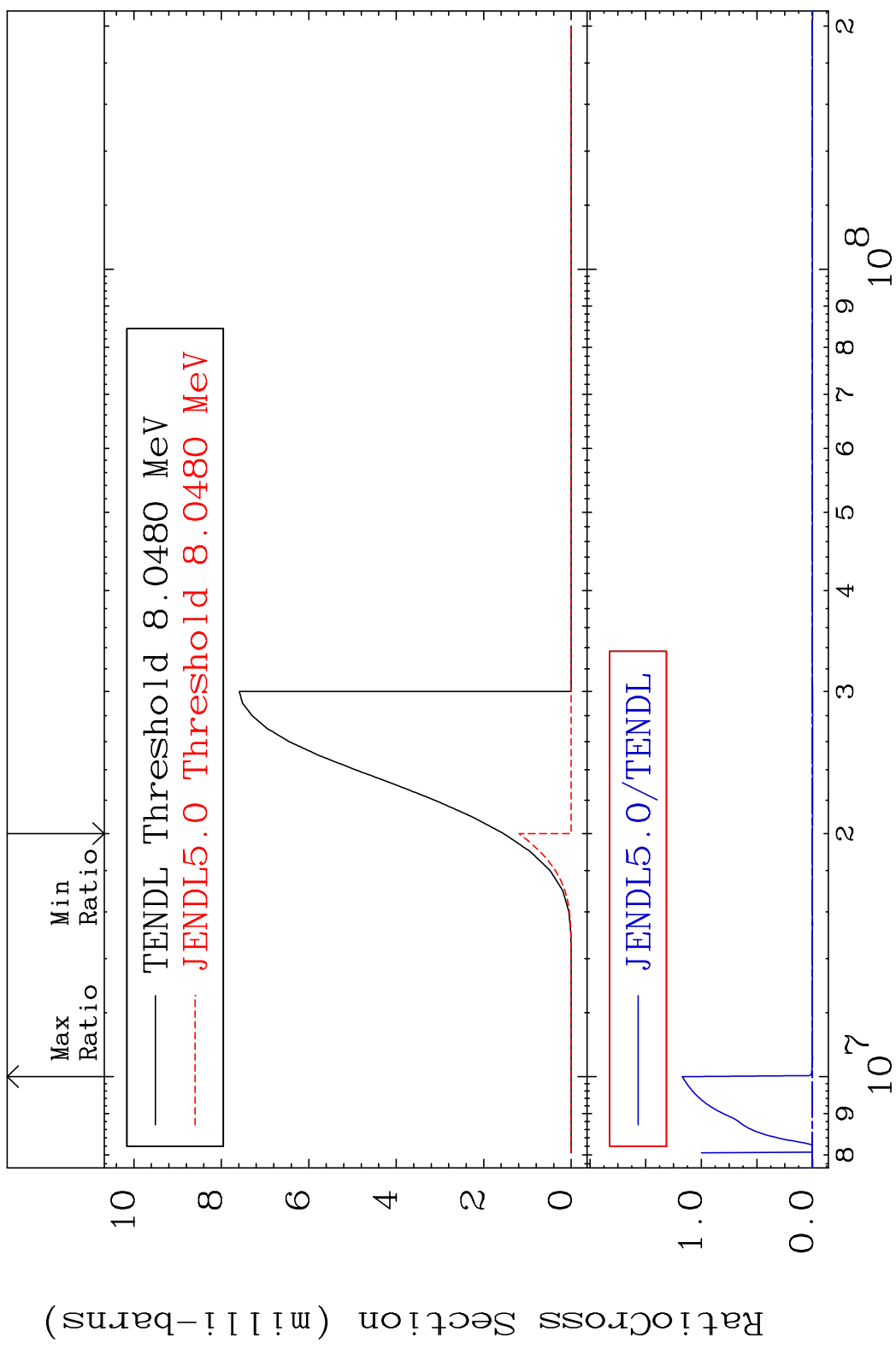


MAT 5819

(n, t)

58-Ce-134

Cross Section -100.0 To 9999. %

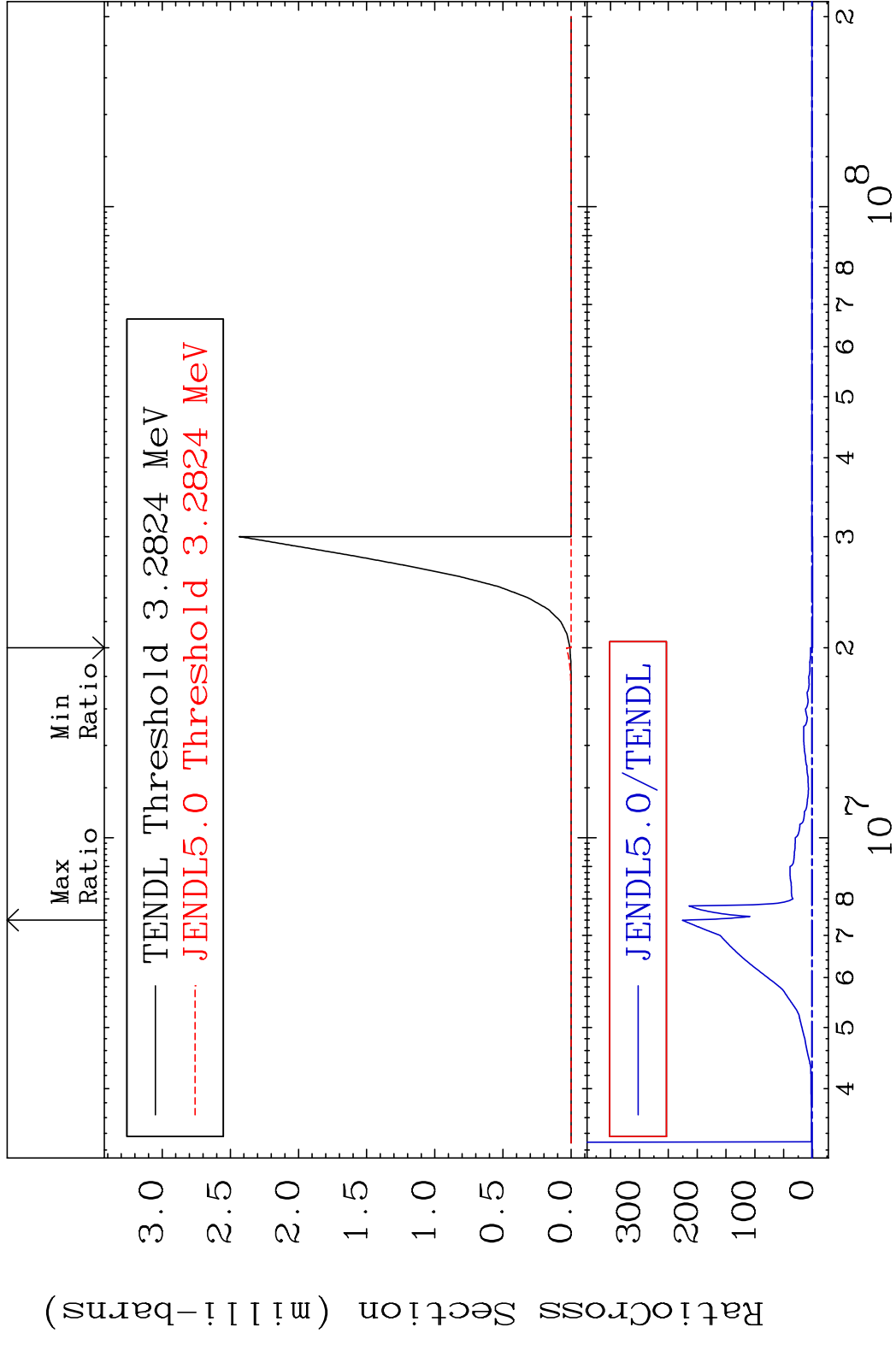


45

Incident Energy (eV)

58-Ce-134

MAT 5819 (n, He-3) 58-Ce-134  
 Cross Section -100.0 To 9999. %

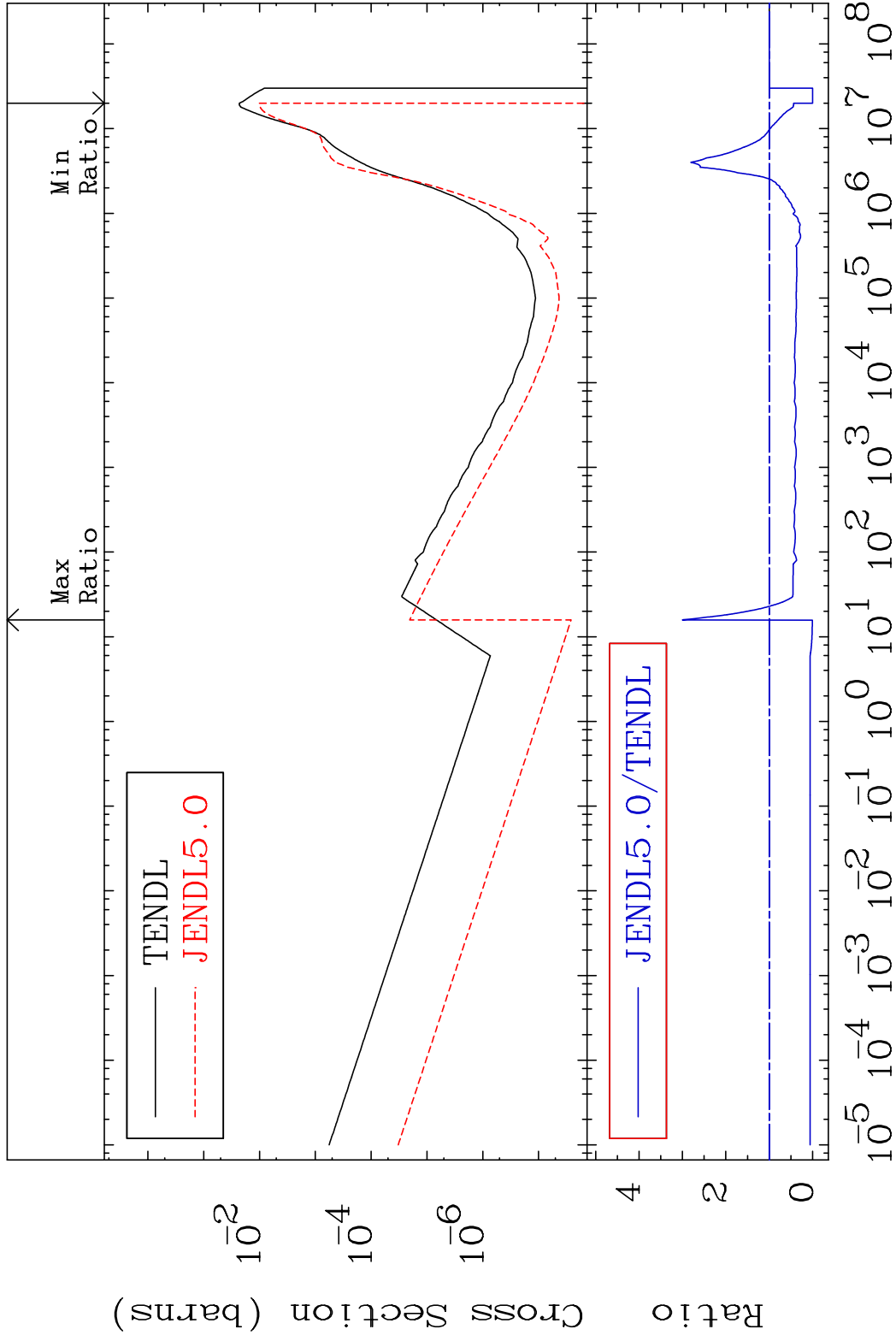


MAT 5819

(n,  $\alpha$ )

58-Ce-134

Cross Section -100.0 To 200.2 %



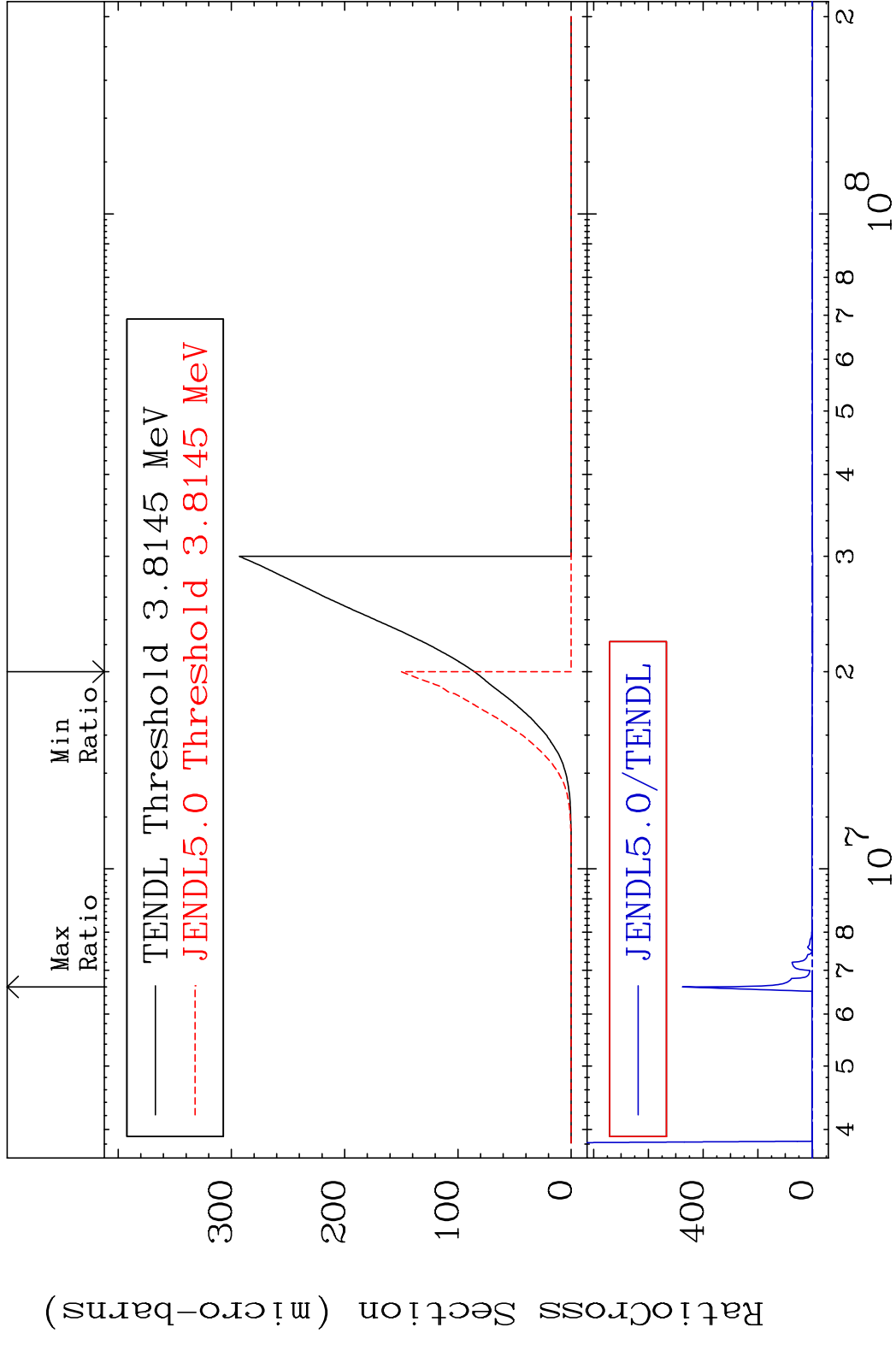
47

Incident Energy (eV)

58-Ce-134



MAT 5819 (n,2p) 58-Ce-134  
 Cross Section -100.0 To 9999. %



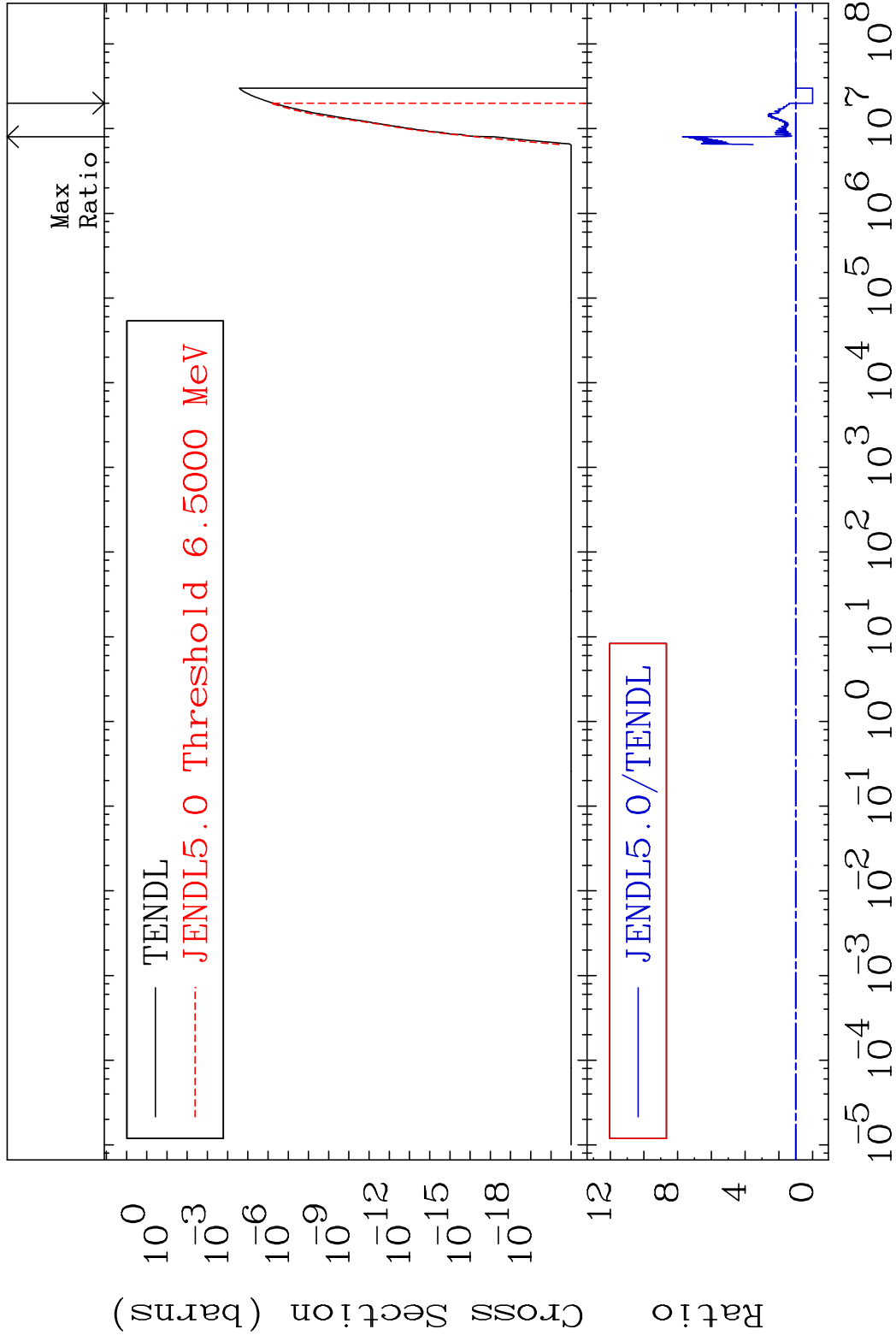
48 Incident Energy (eV) 58-Ce-134

MAT 5819

(n,p)  $\alpha$

58-Ce-134

Cross Section -100.0 To 672.2 %



49

Incident Energy (eV)

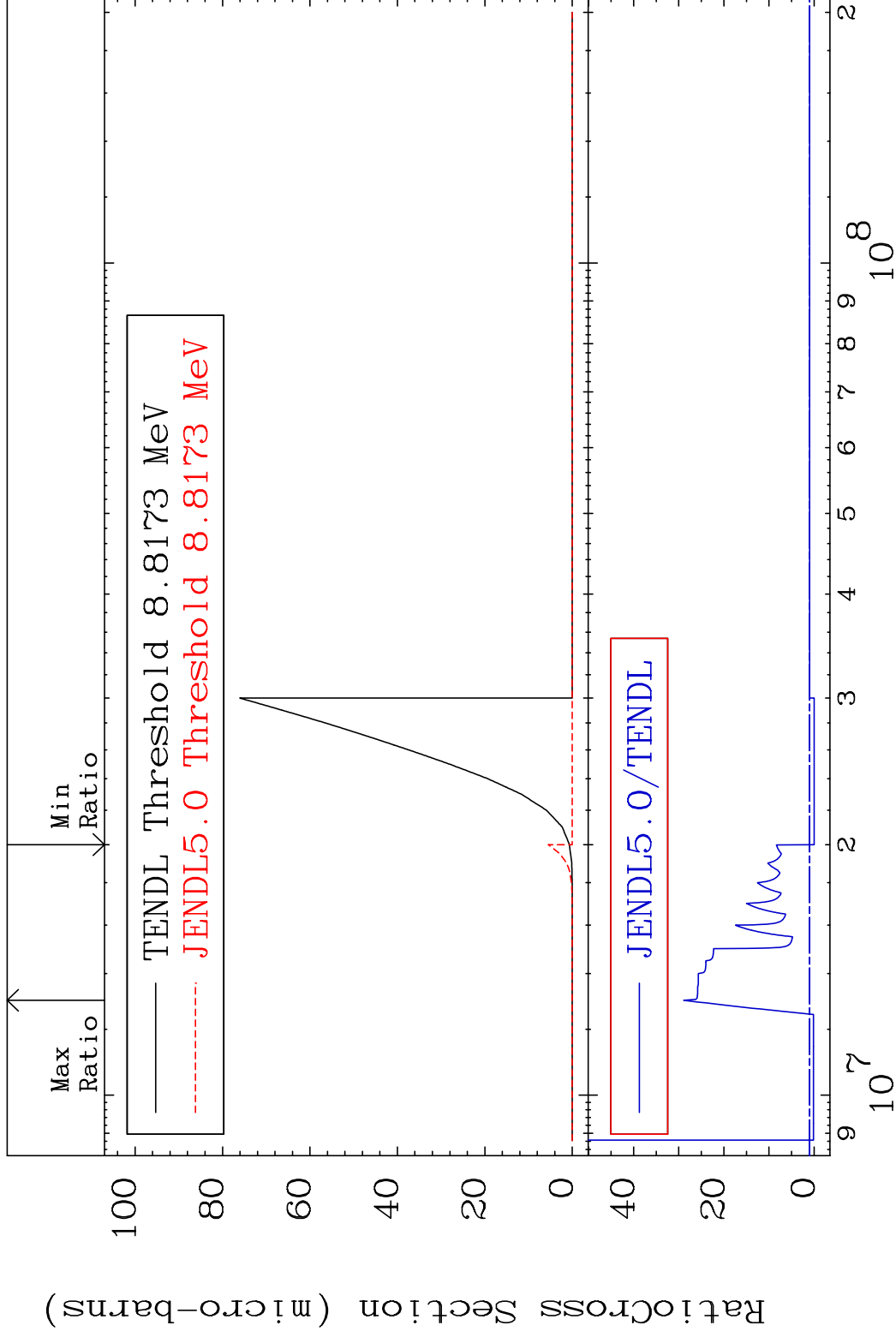
58-Ce-134

MAT 5819

(n,p) d

58-Ce-134

Cross Section -100.0 To 2791. %



50

Incident Energy (eV)

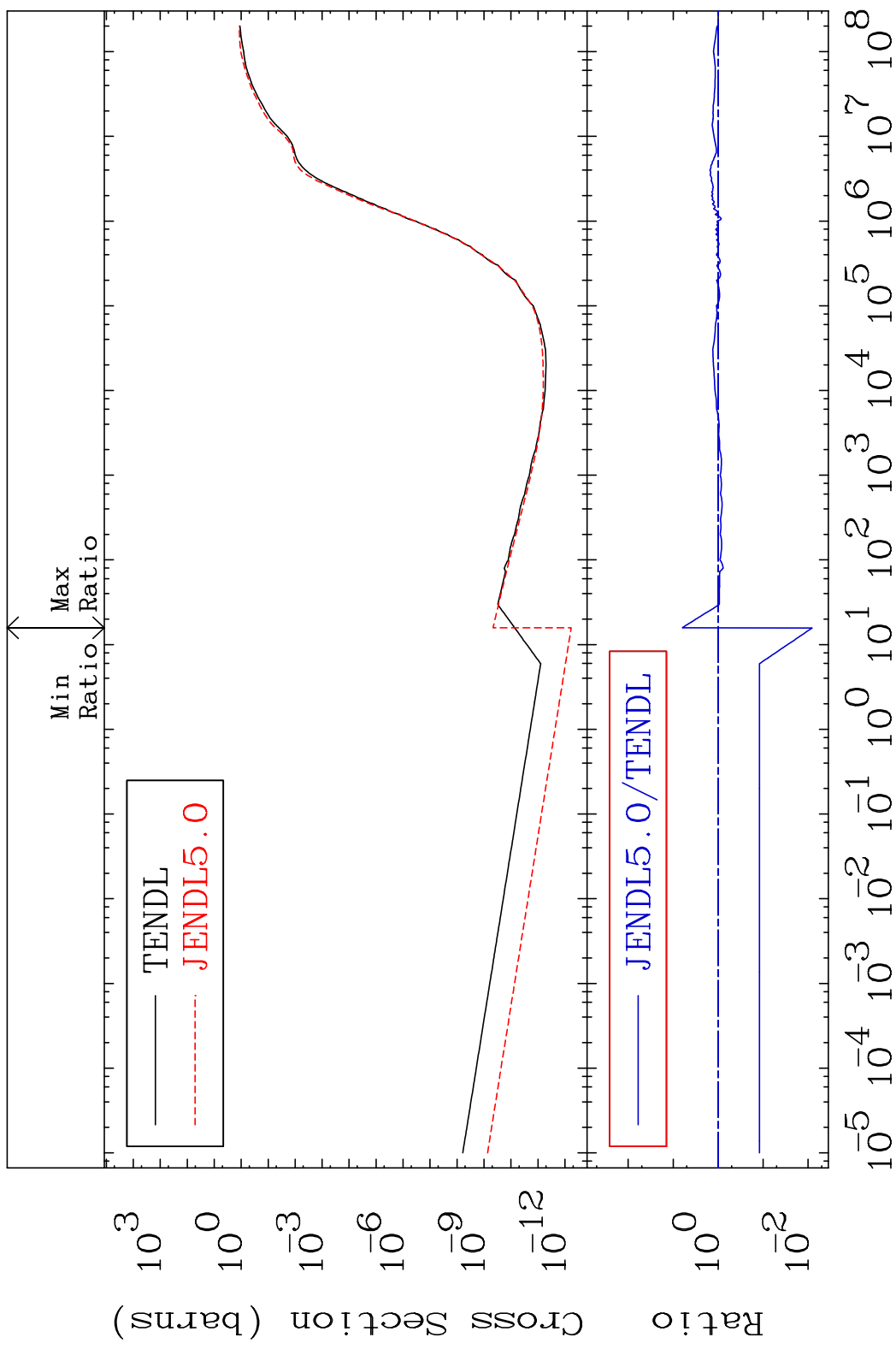
58-Ce-134

MAT 5819

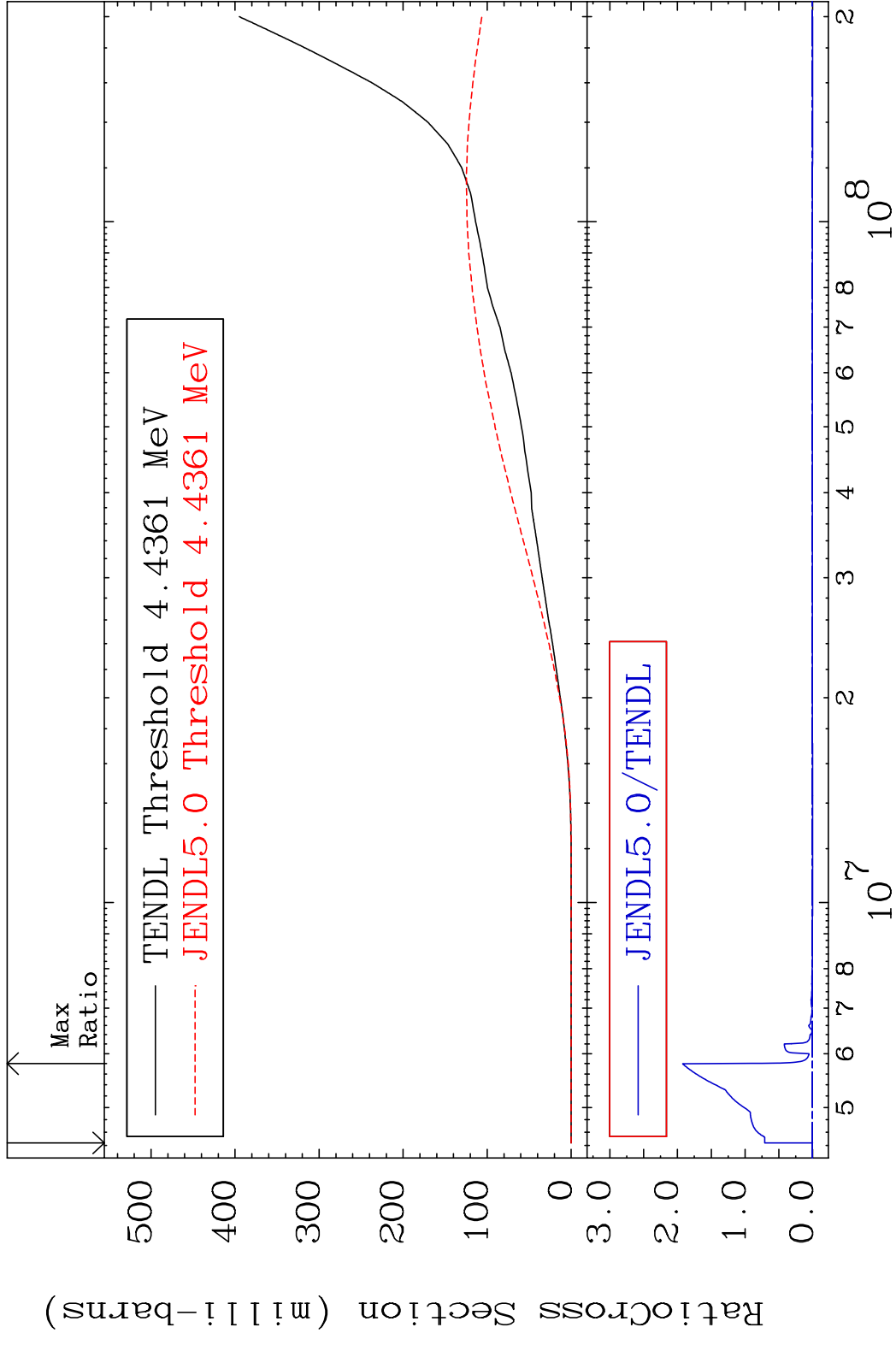
Hydrogen Production

58-Ce-134

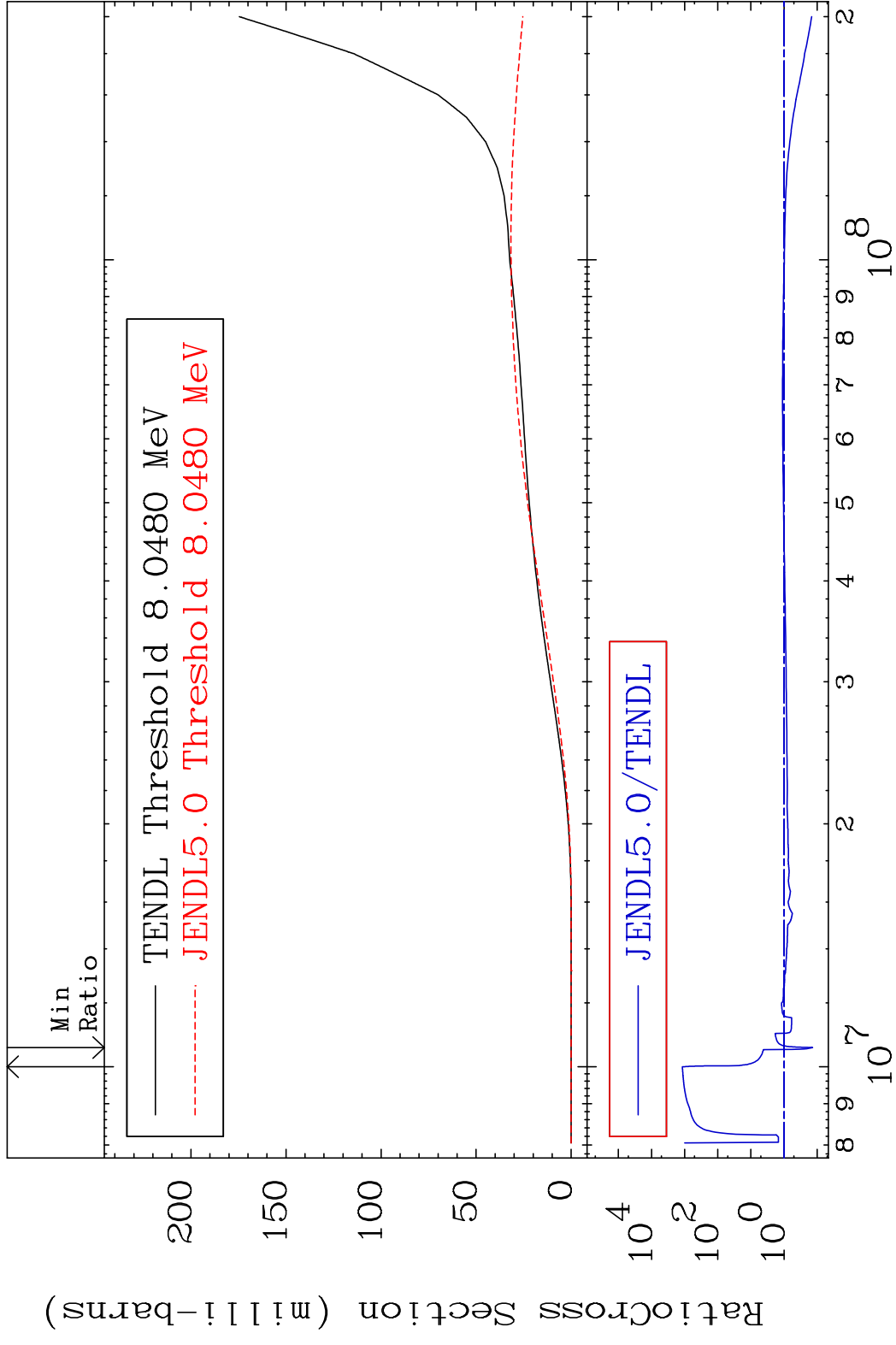
Cross Section -99.20 To 524.8 %



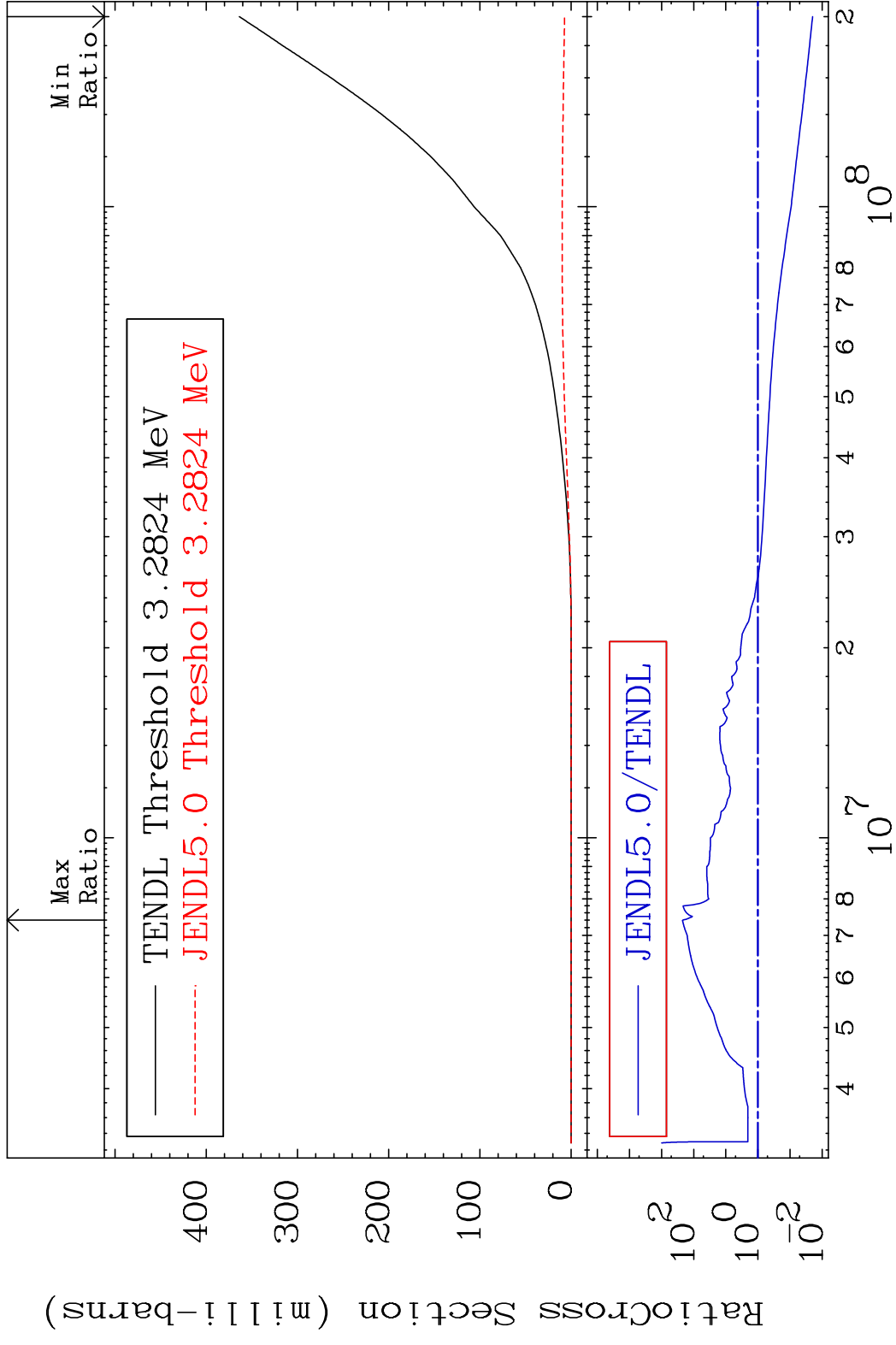
MAT 5819 Deuterium Production 58-Ce-134  
 Cross Section -100.0 To 9999. %



MAT 5819 Tritium Production 58-Ce-134  
 Cross Section -86.26 To 9999. %



MAT 5819 He-3 Production 58-Ce-134  
 Cross Section -98.02 To 9999. %

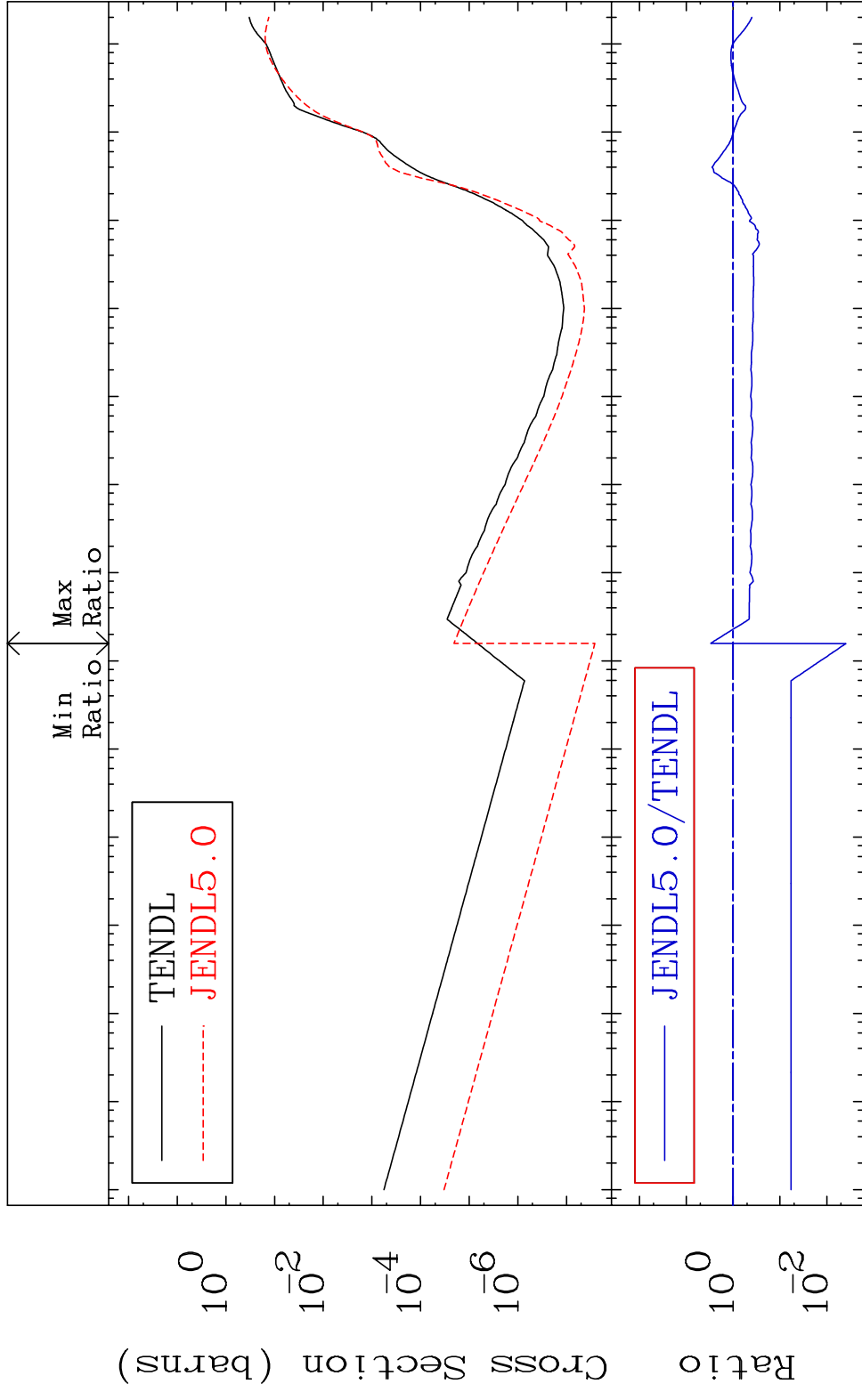


MAT 5819

He-4 Production

58-Ce-134

Cross Section -99.62 To 200.2 %



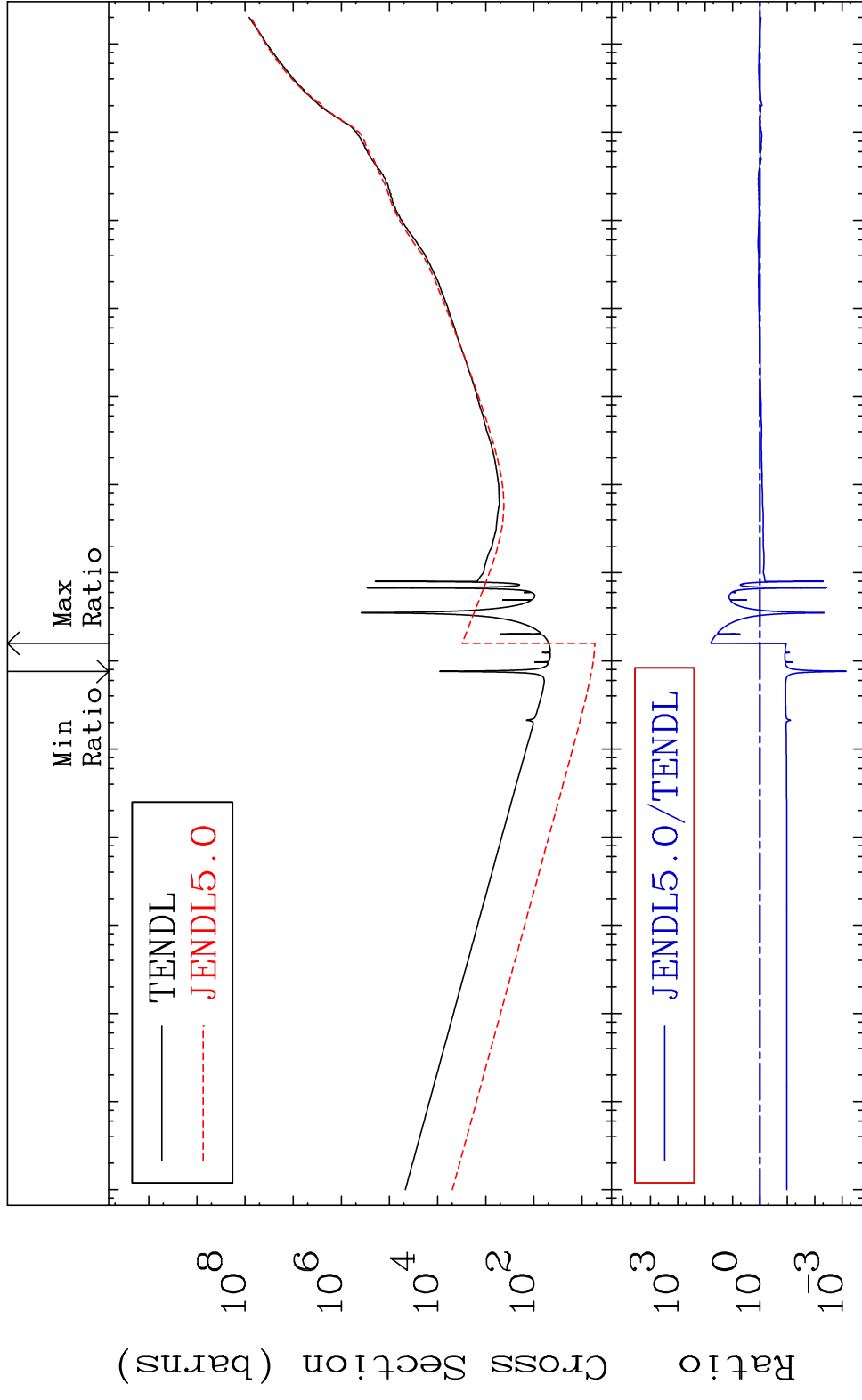
55

Incident Energy (eV)

58-Ce-134



MAT 5819 Kerma total (eV-barns) 58-Ce-134  
 Cross Section -99.93 To 6151. %

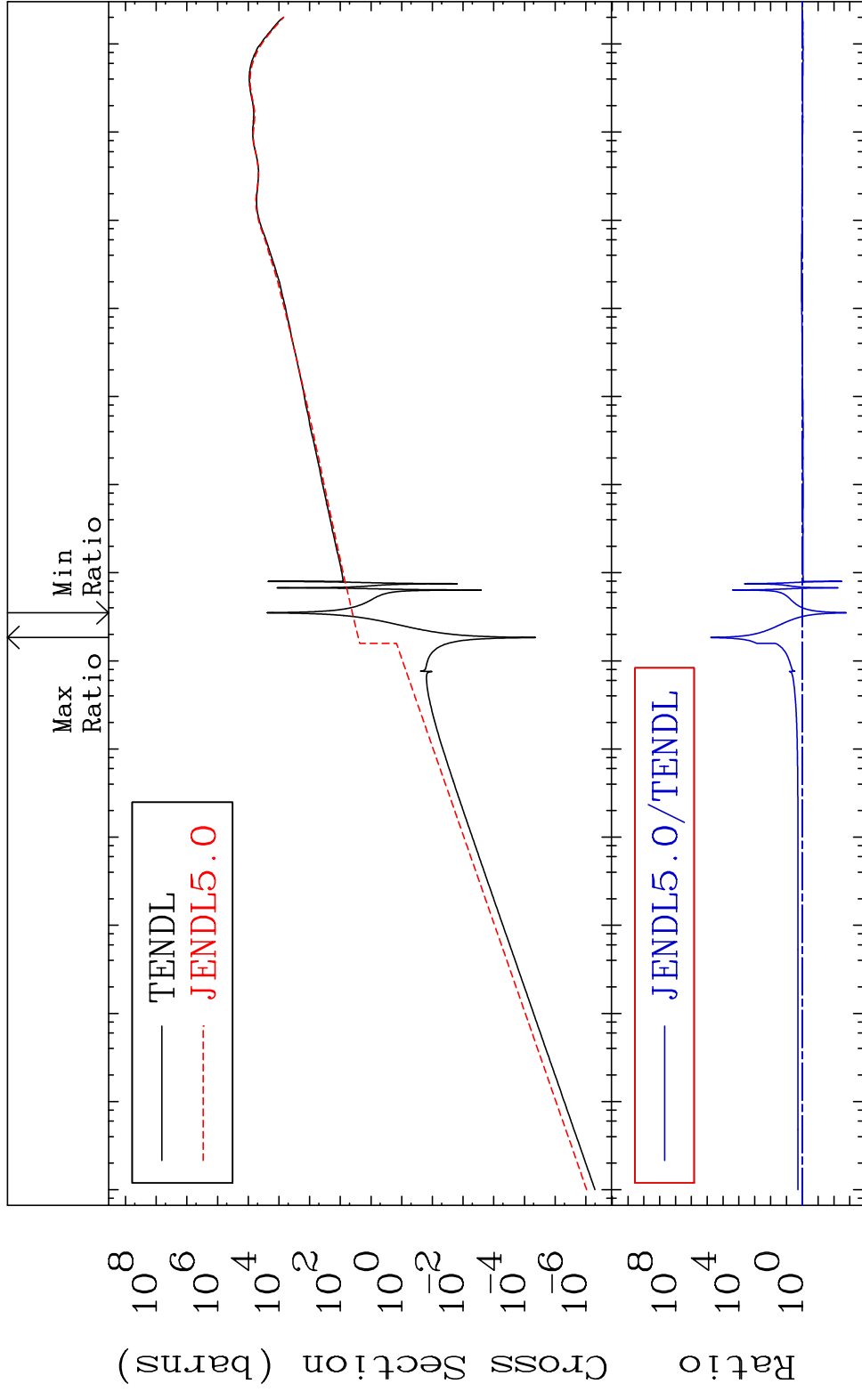


56 Incident Energy (eV) 58-Ce-134

MAT 5819

Kerma elastic  
Cross Section -99.83 To 9999. %

58-Ce-134

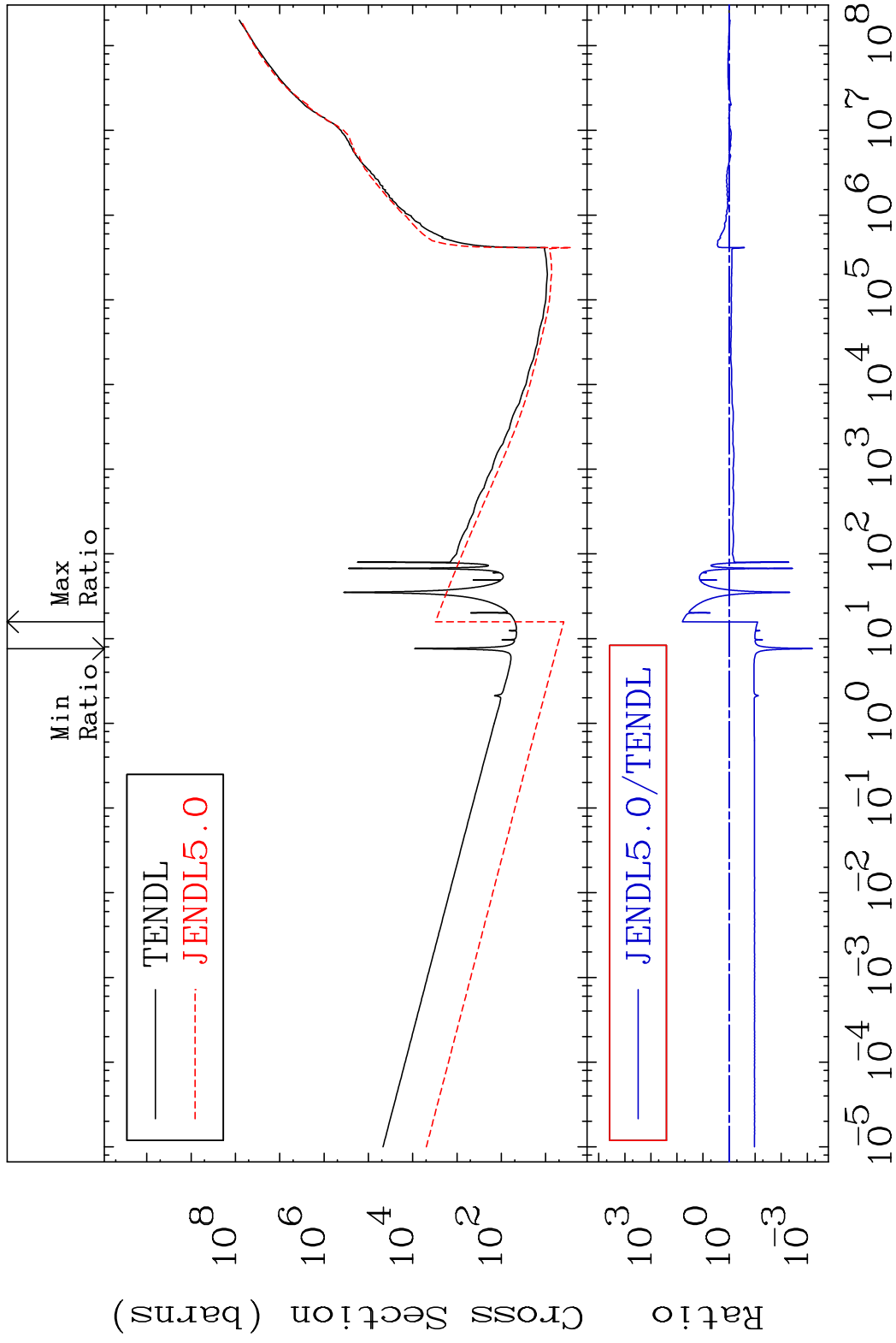


57

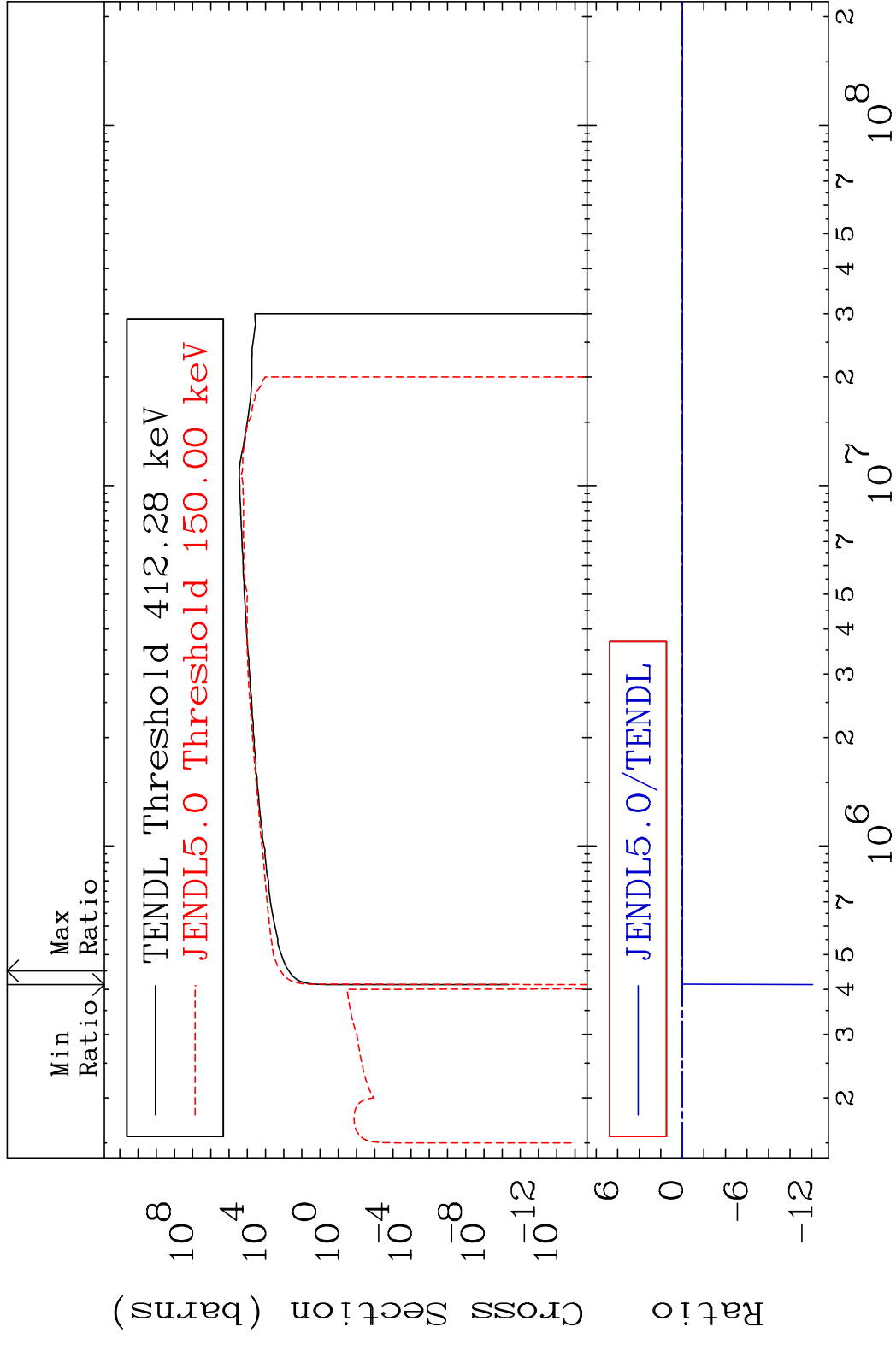
Incident Energy (eV)

58-Ce-134

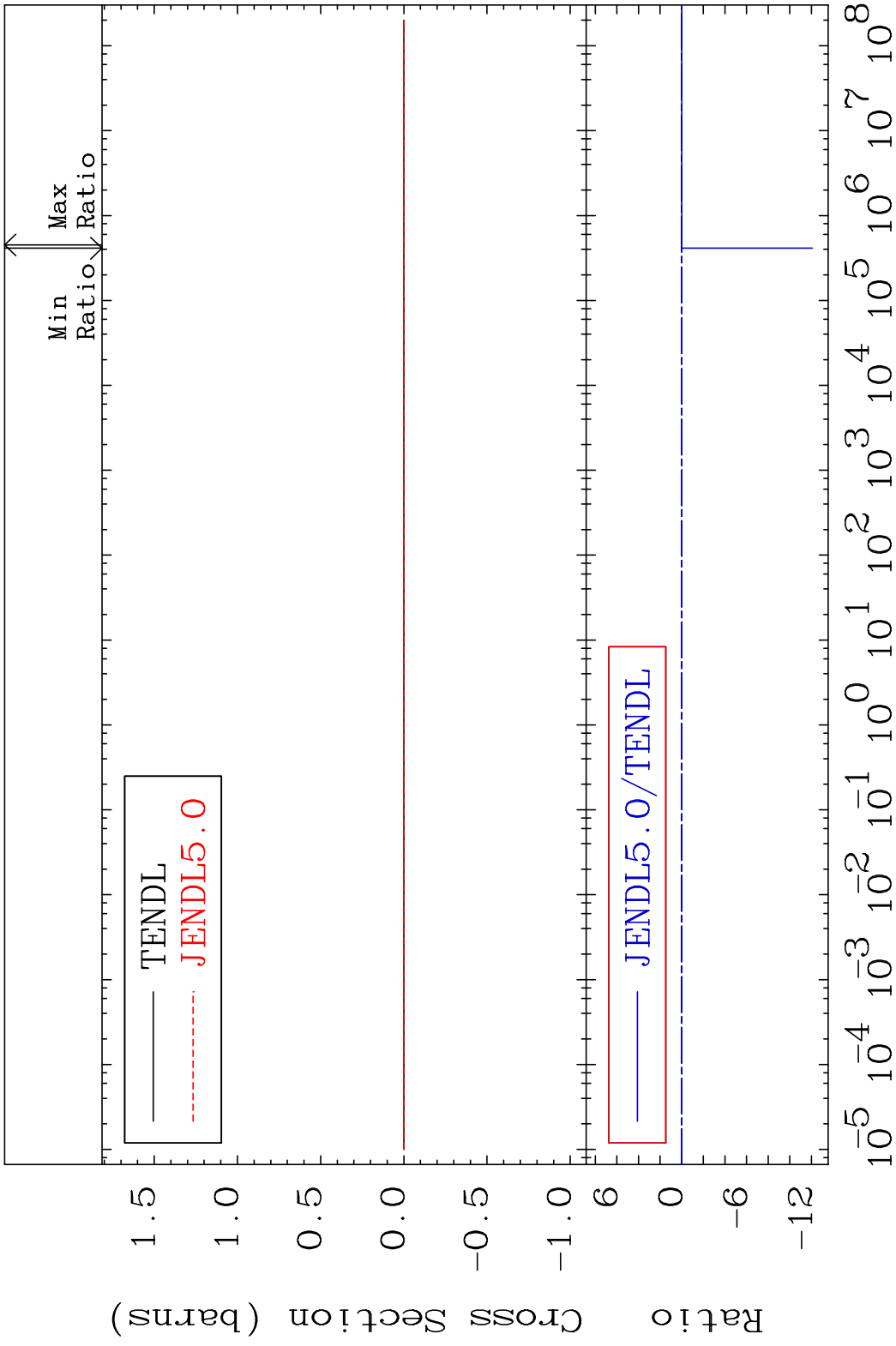
MAT 5819 Kerma non-elastic (all but mt2) 58-Ce-134  
 Cross Section -99.94 To 6108. %



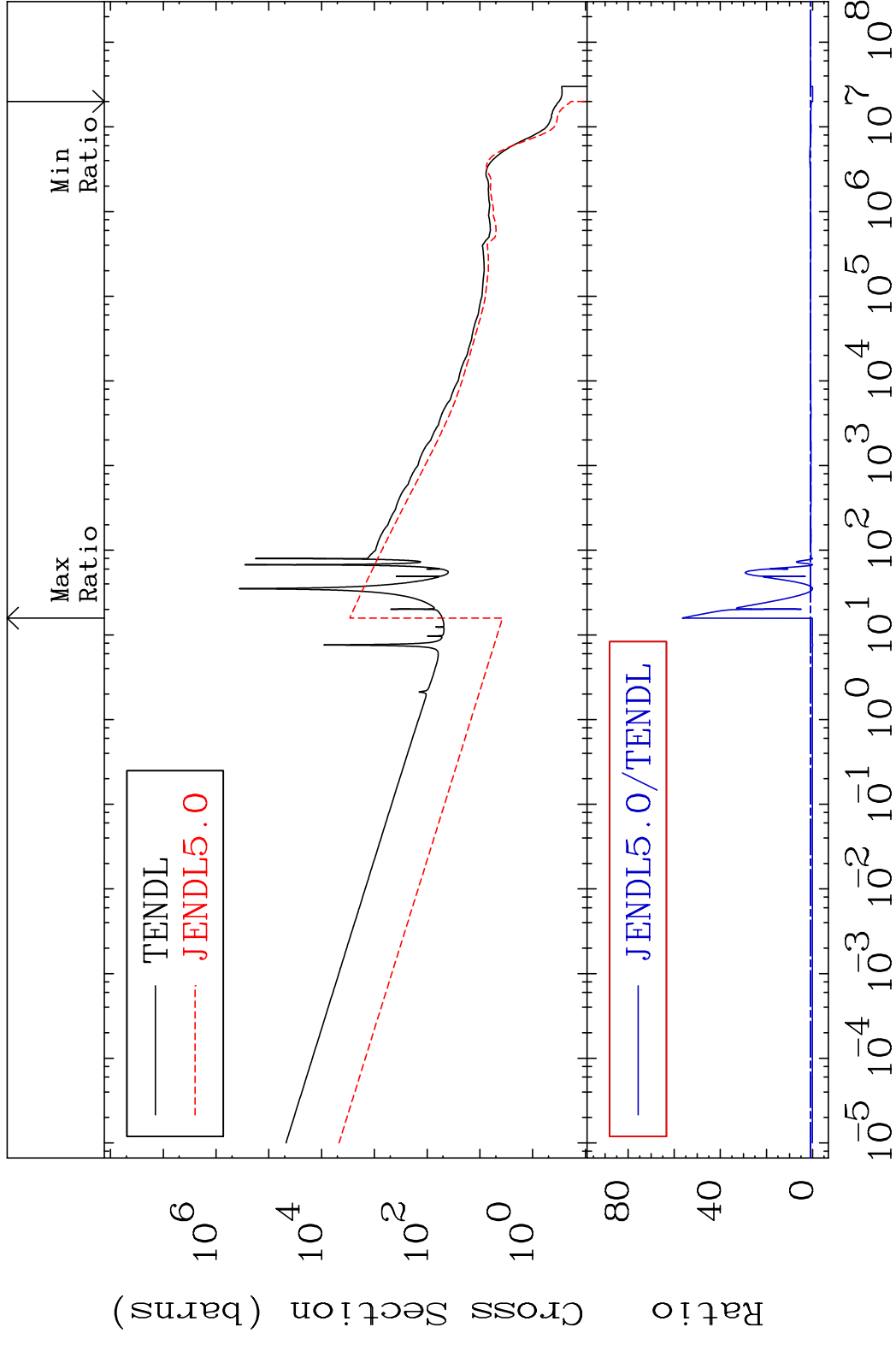
MAT 5819 Kerma inelastic (mt51-91) 58-Ce-134  
 Cross Section -9999. To 187.6 %



MAT 5819 Kerma fission (mt18 or mt19-20-21-38) 58-Ce-134  
 Cross Section -9999. To 187.6 %



MAT 5819 Kerma capture (mt102) 58-Ce-134  
 Cross Section -100.0 To 5548. %

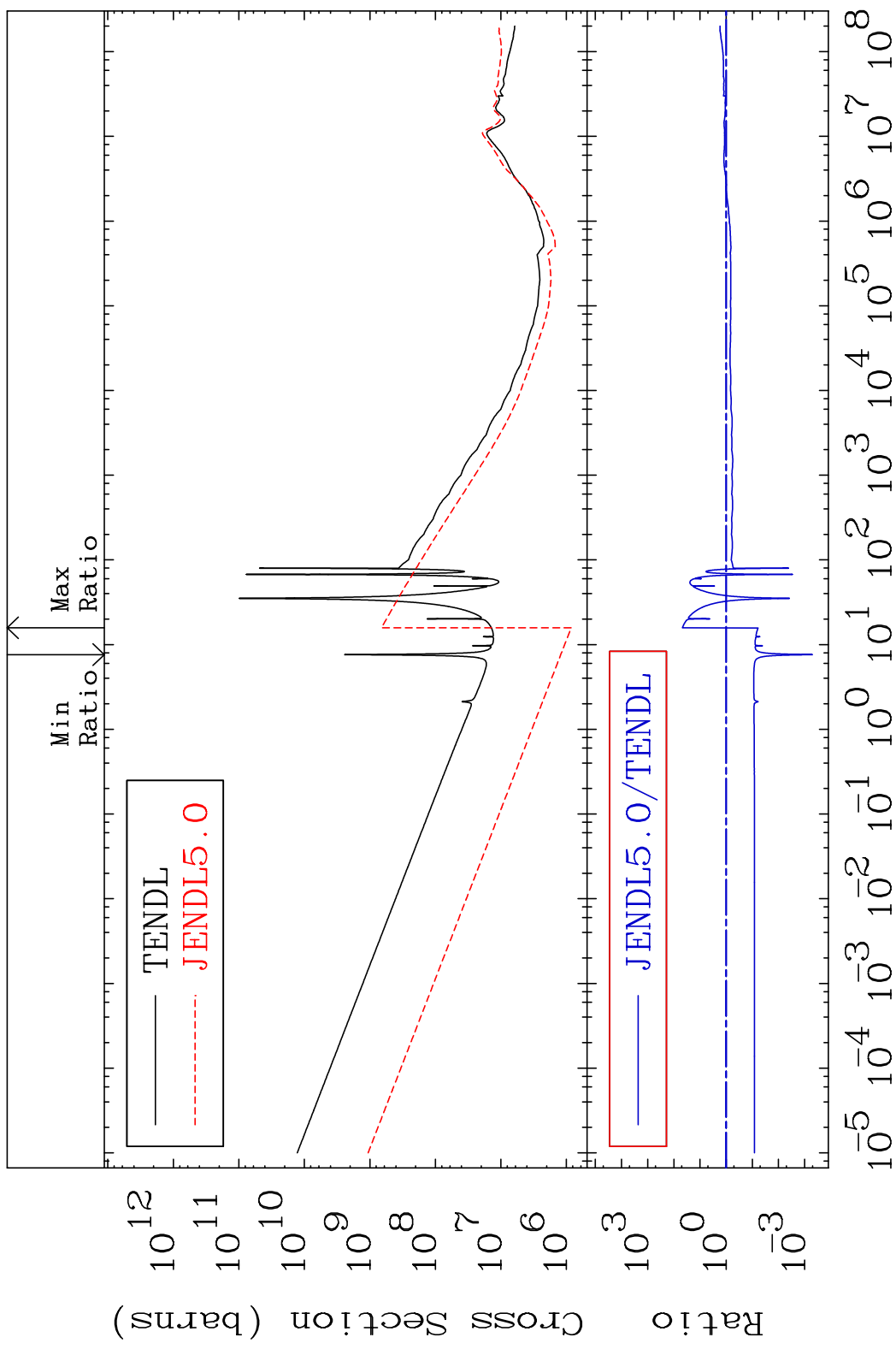


MAT 5819

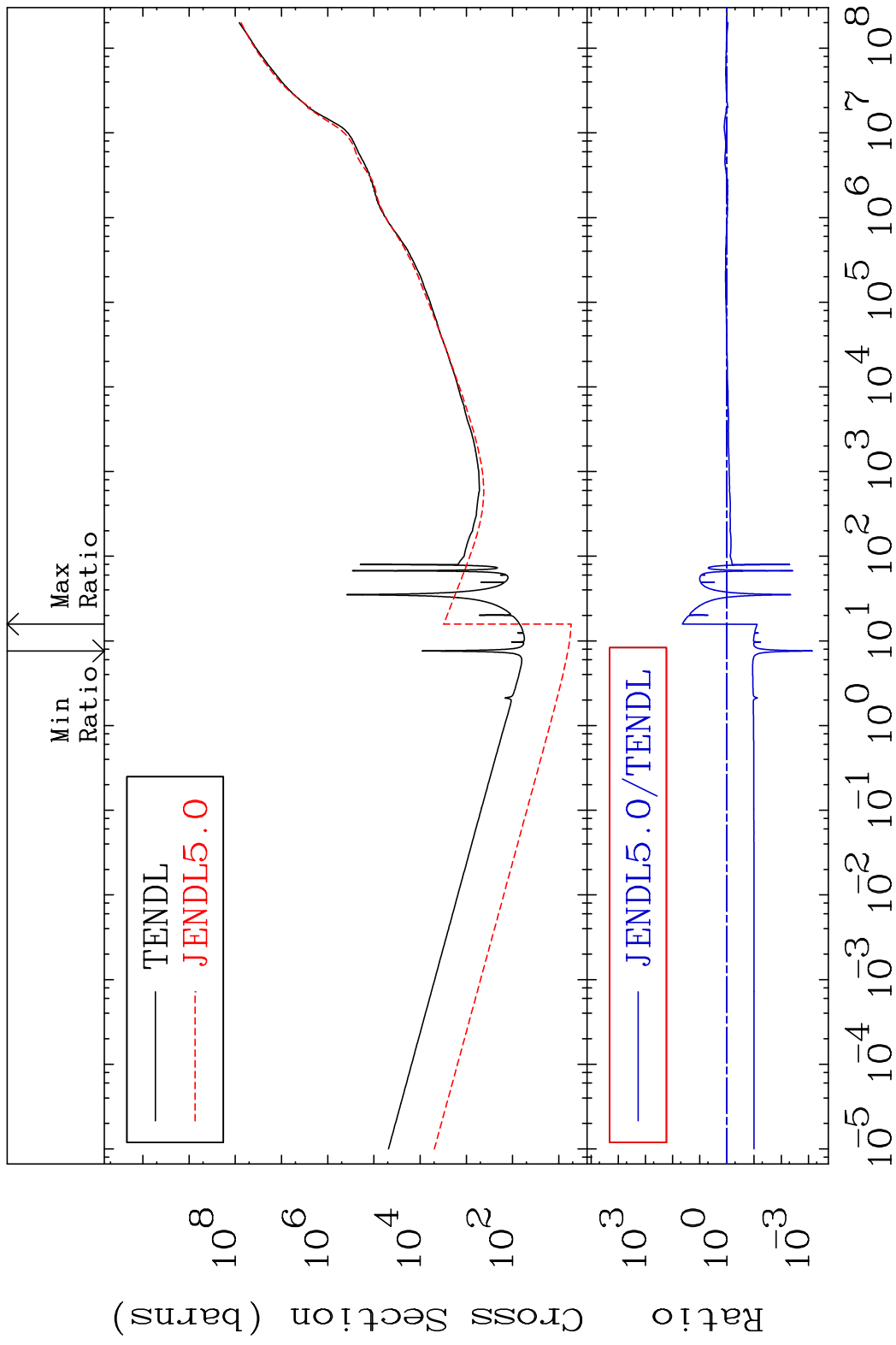
Total photon (eV-barns)

58-Ce-134

Cross Section -99.95 To 4629. %

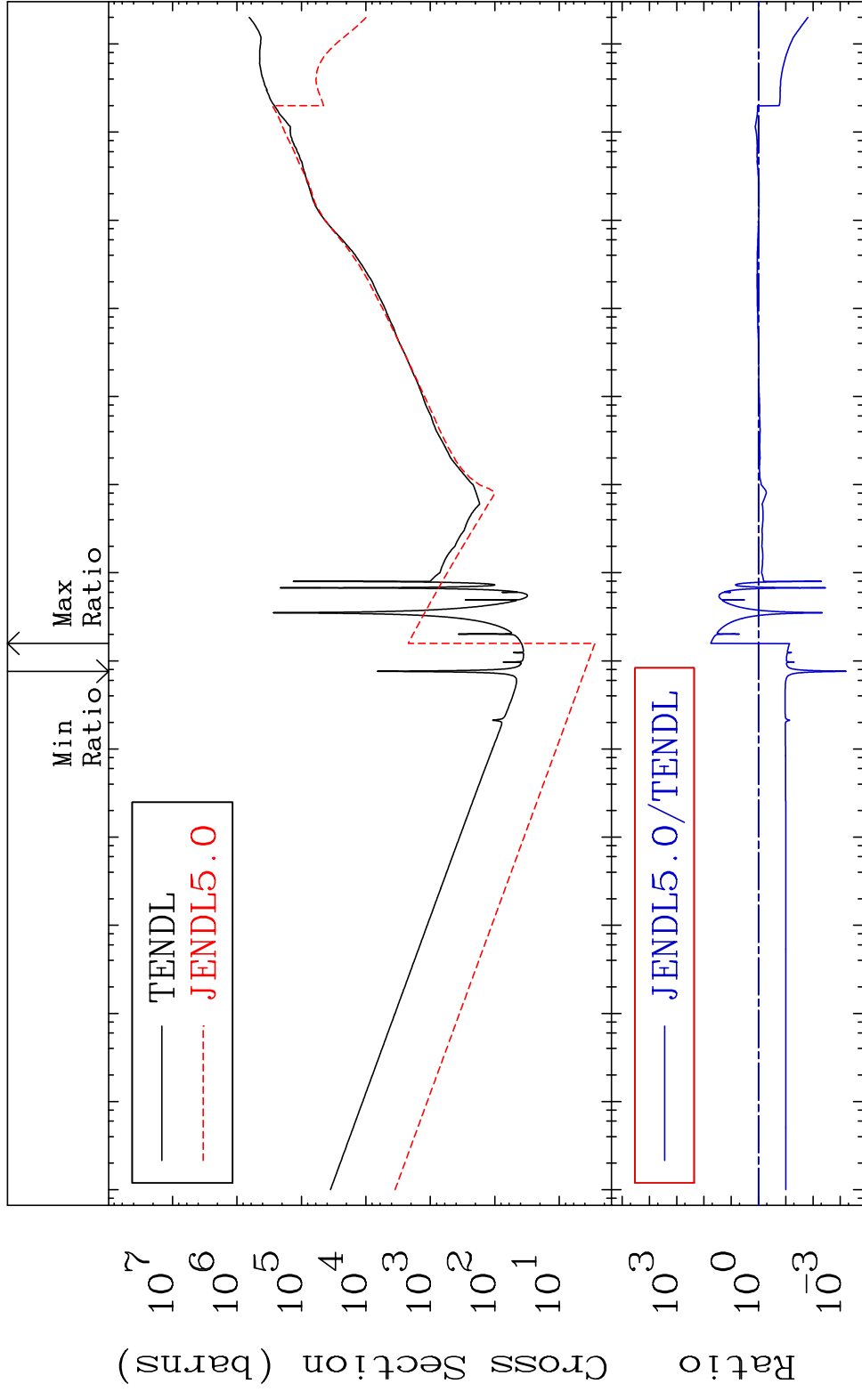


MAT 5819 Total kinematic kerma (high limit) 58-Ce-134  
Cross Section -99.93 To 4274. %





MAT 5819 Dpa total (eV-barns) 58-Ce-134  
 Cross Section -99.94 To 5560. %

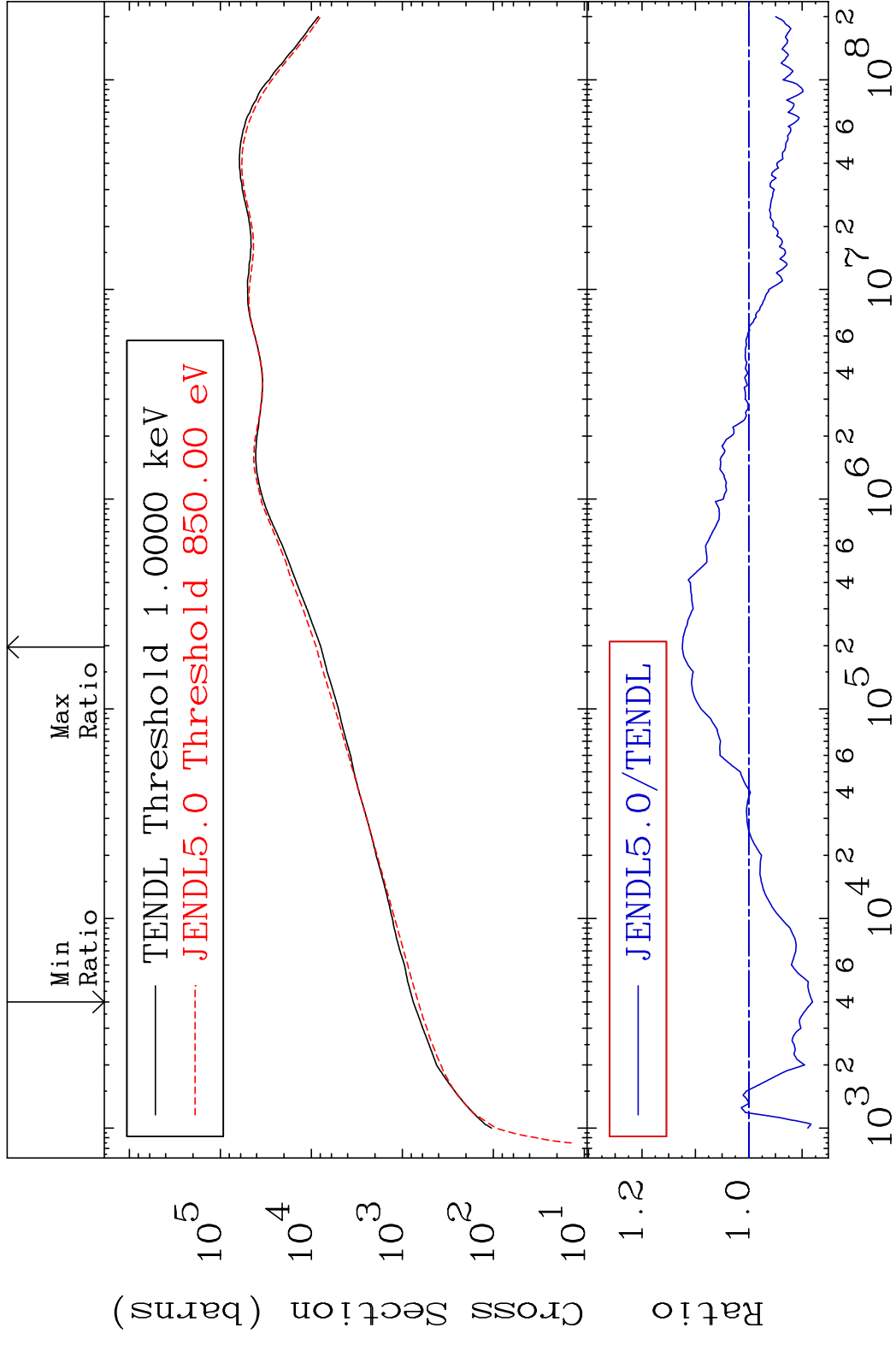


MAT 5819

Dpa elastic (mt2)

58-Ce-134

Cross Section -11.95 To 12.43 %

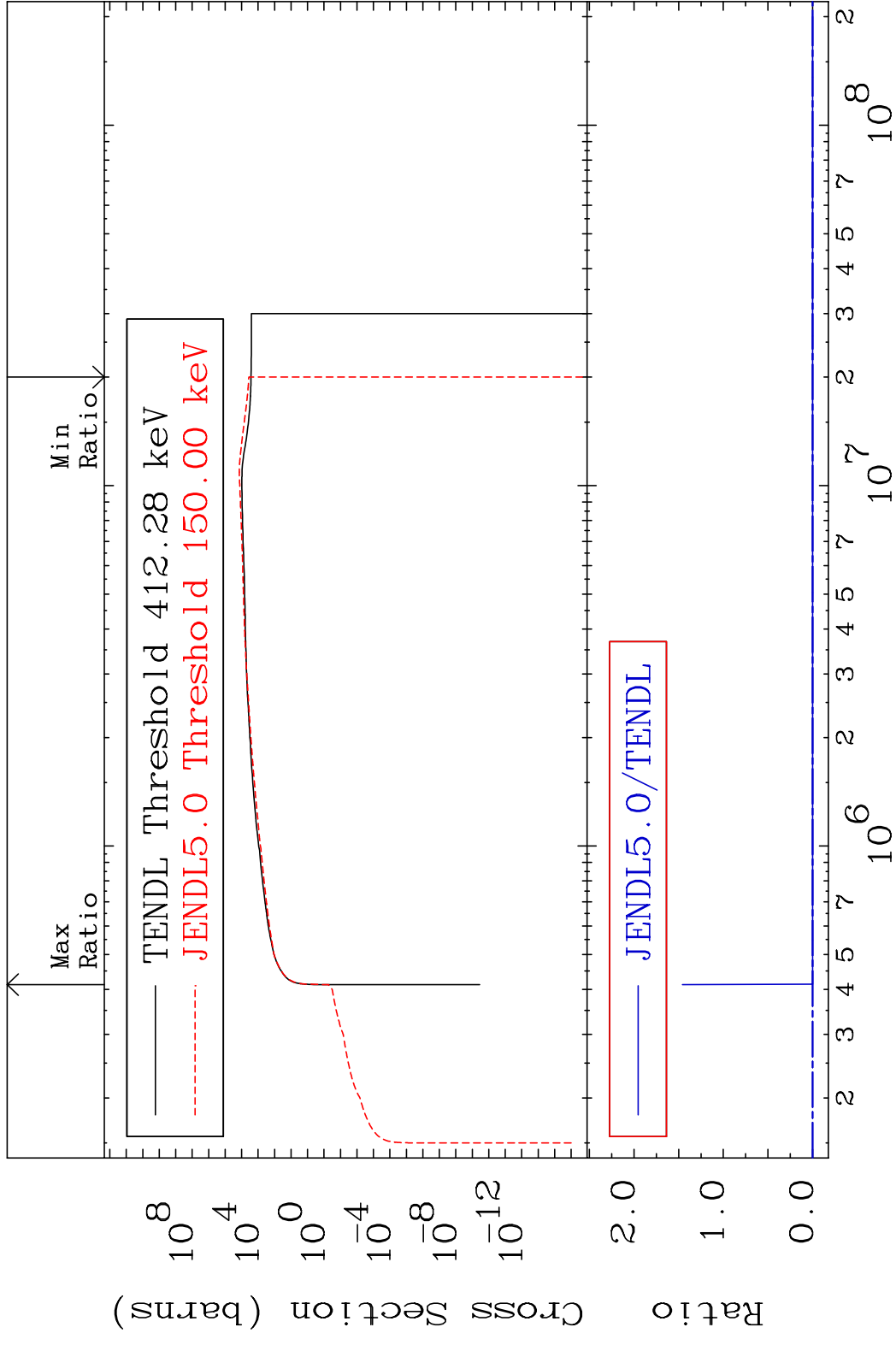


65

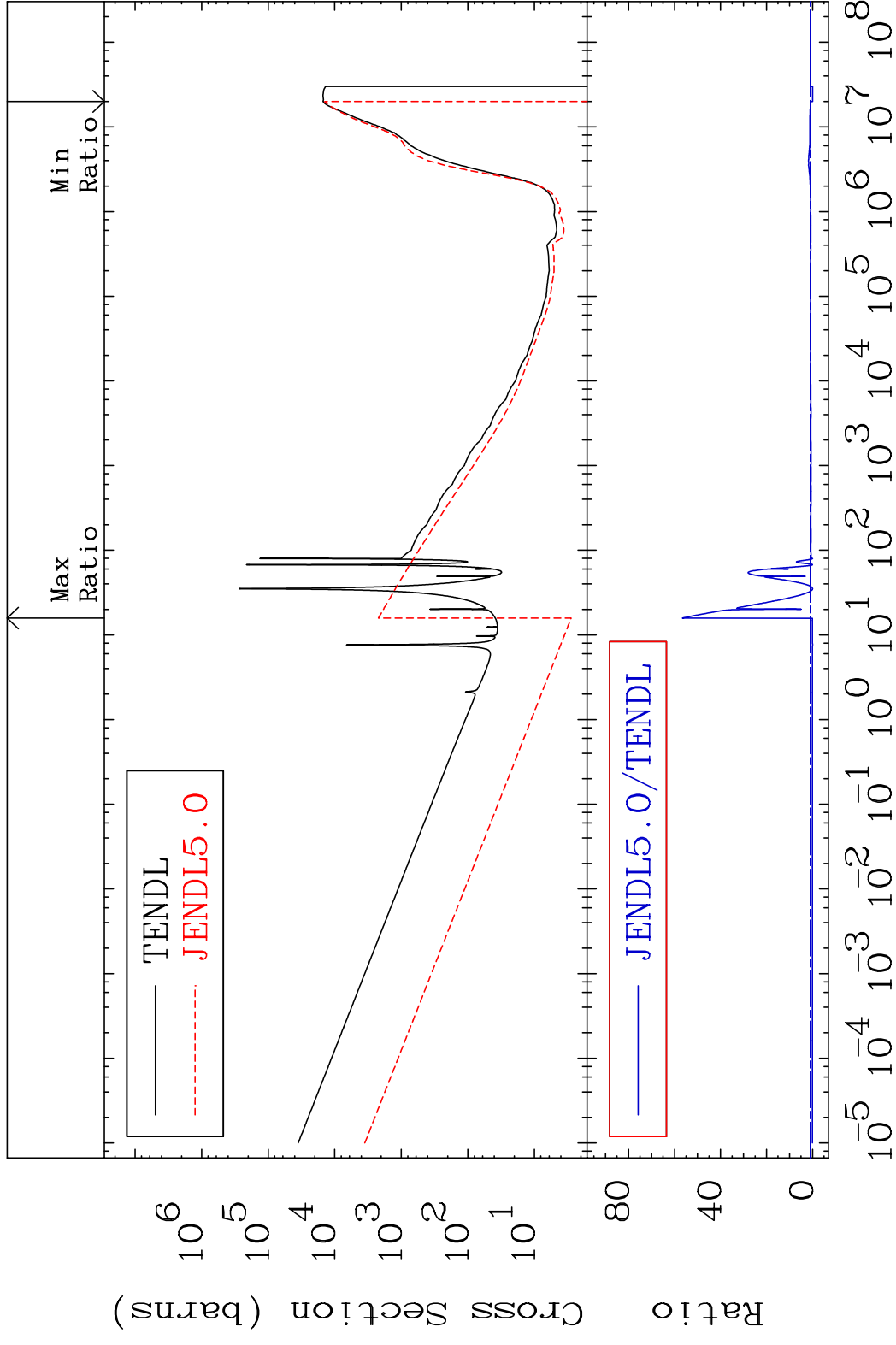
Incident Energy (eV)

58-Ce-134

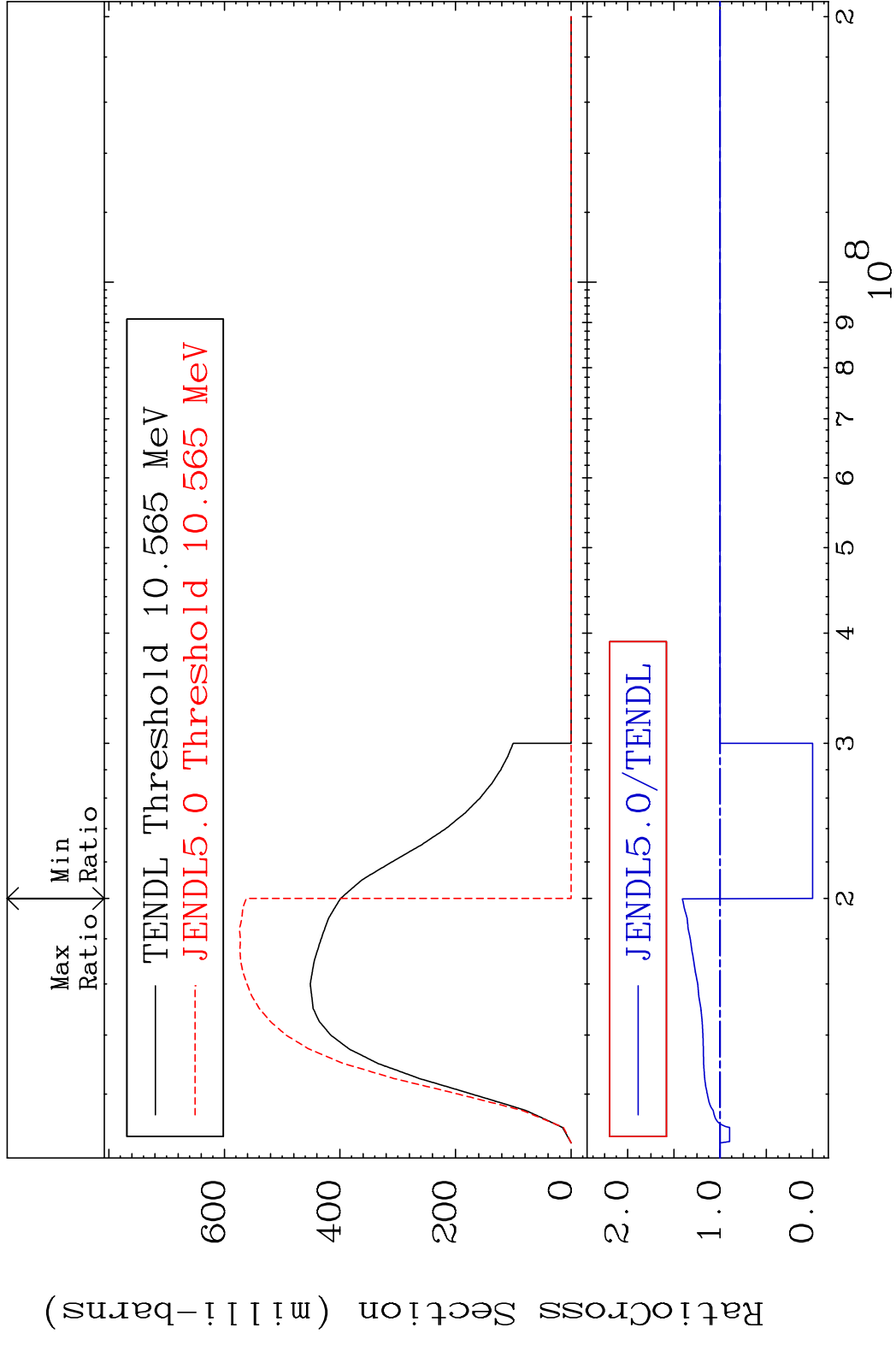
MAT 5819 Dpa inelastic (mt51-91) 58-Ce-134  
 Cross Section -100.0 To 9999. %



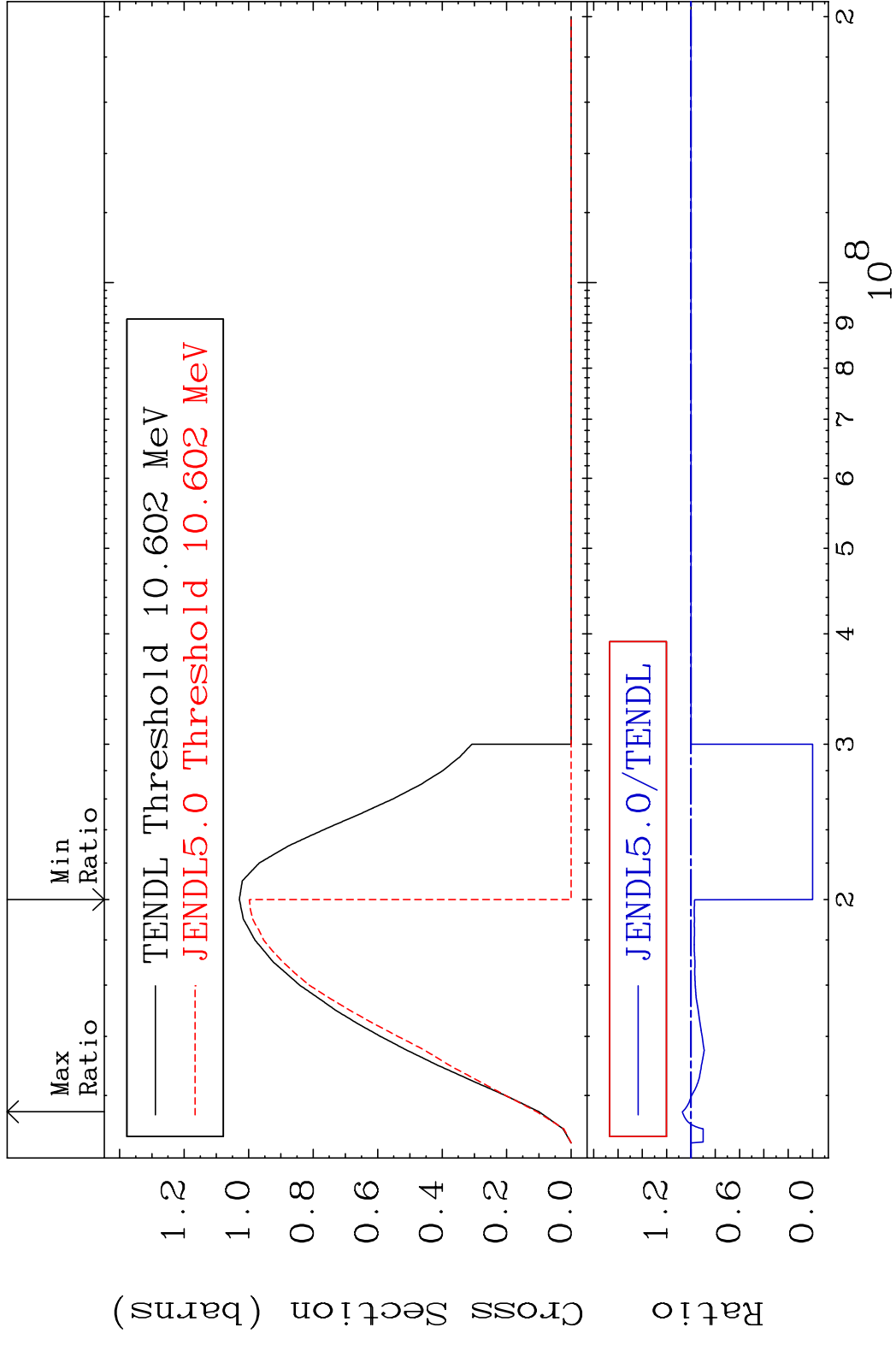
MAT 5819 Dpa disappearance (mt102 -120) 58-Ce-134  
 Cross Section -100.0 To 5560. %



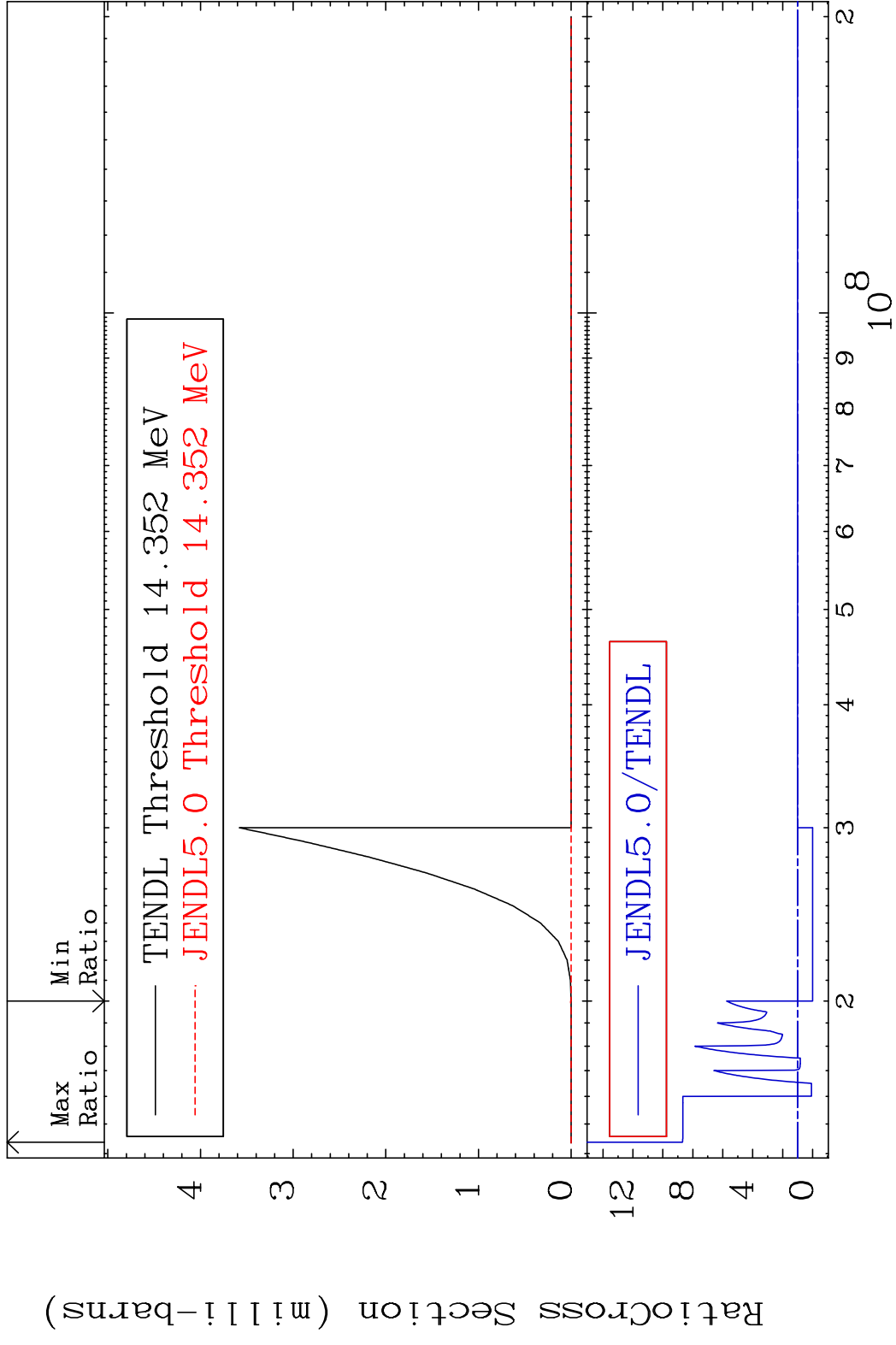
MAT 5819 (n,2n):58-Ce-133g 58-Ce-134  
 Radionuclide Production Cross Section 180.0 mb 40.87 %

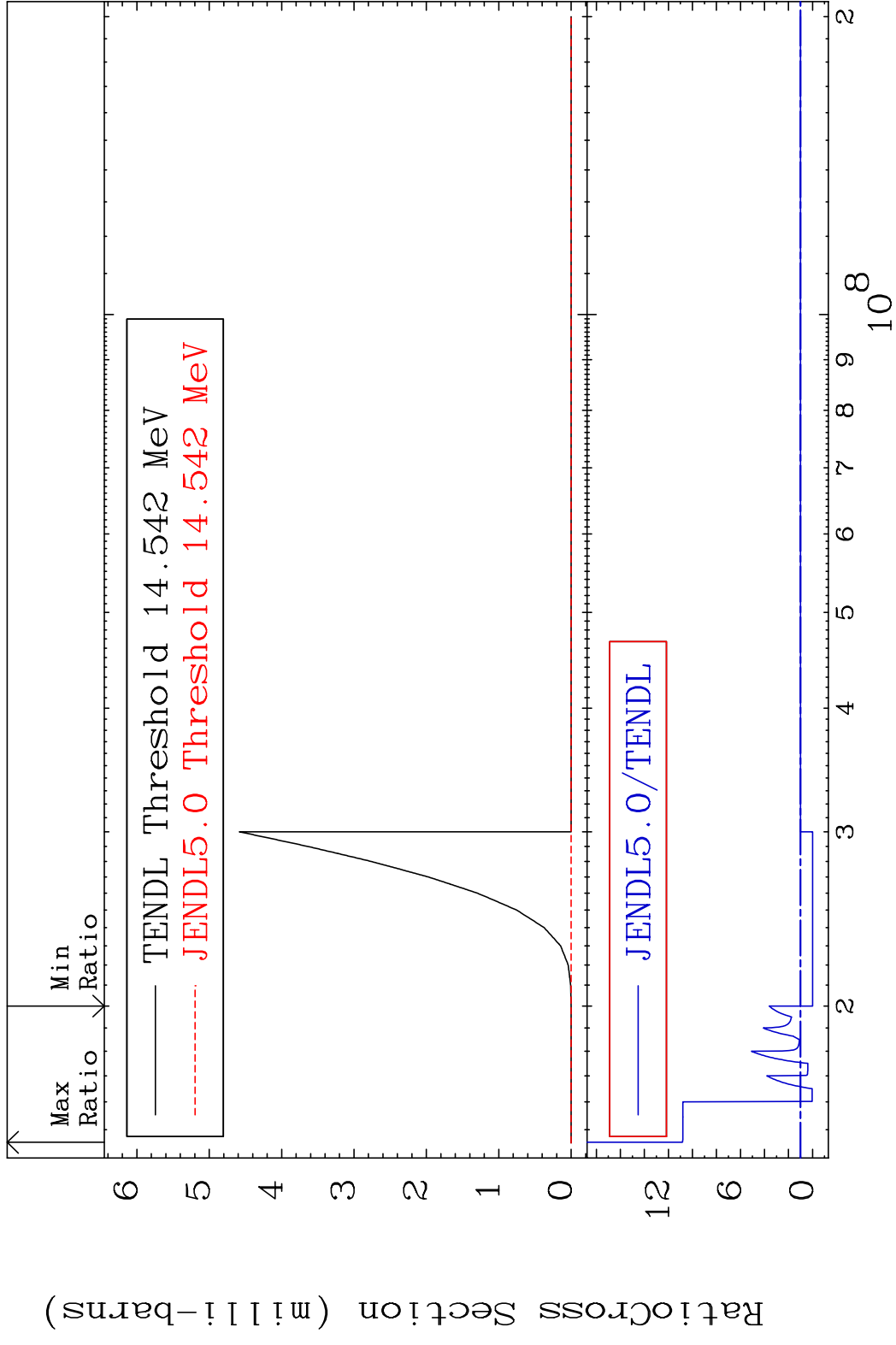


MAT 5819 (n,2n):58-Ce-133m1 58-Ce-134  
 Radionuclide Production Cross Section 180.01 dth 7.061 %

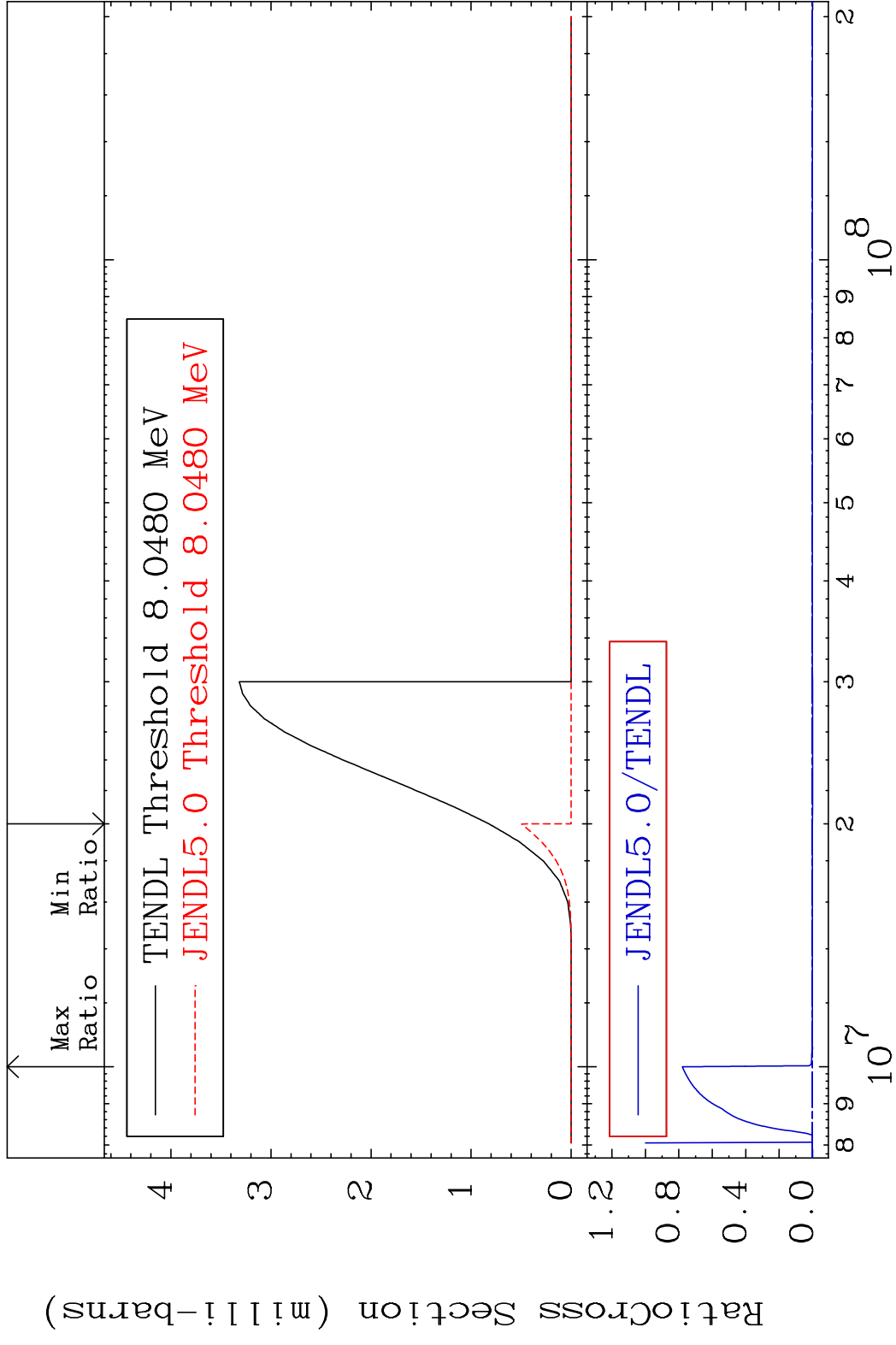


MAT 5819 (n, n') d:57-La-132g 58-Ce-134  
 Radionuclide Production Cross Section 180.0 dth 769.9 %

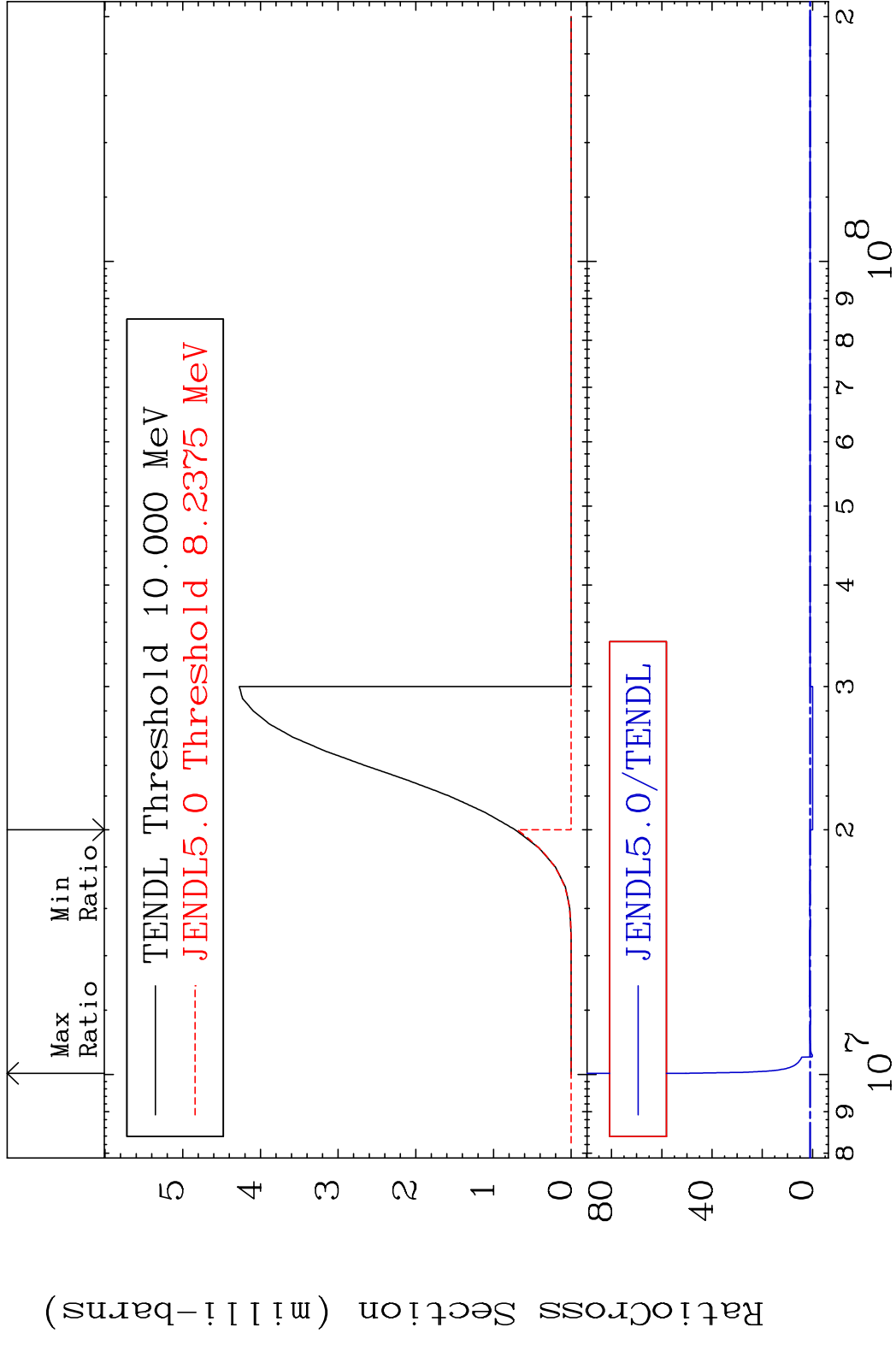






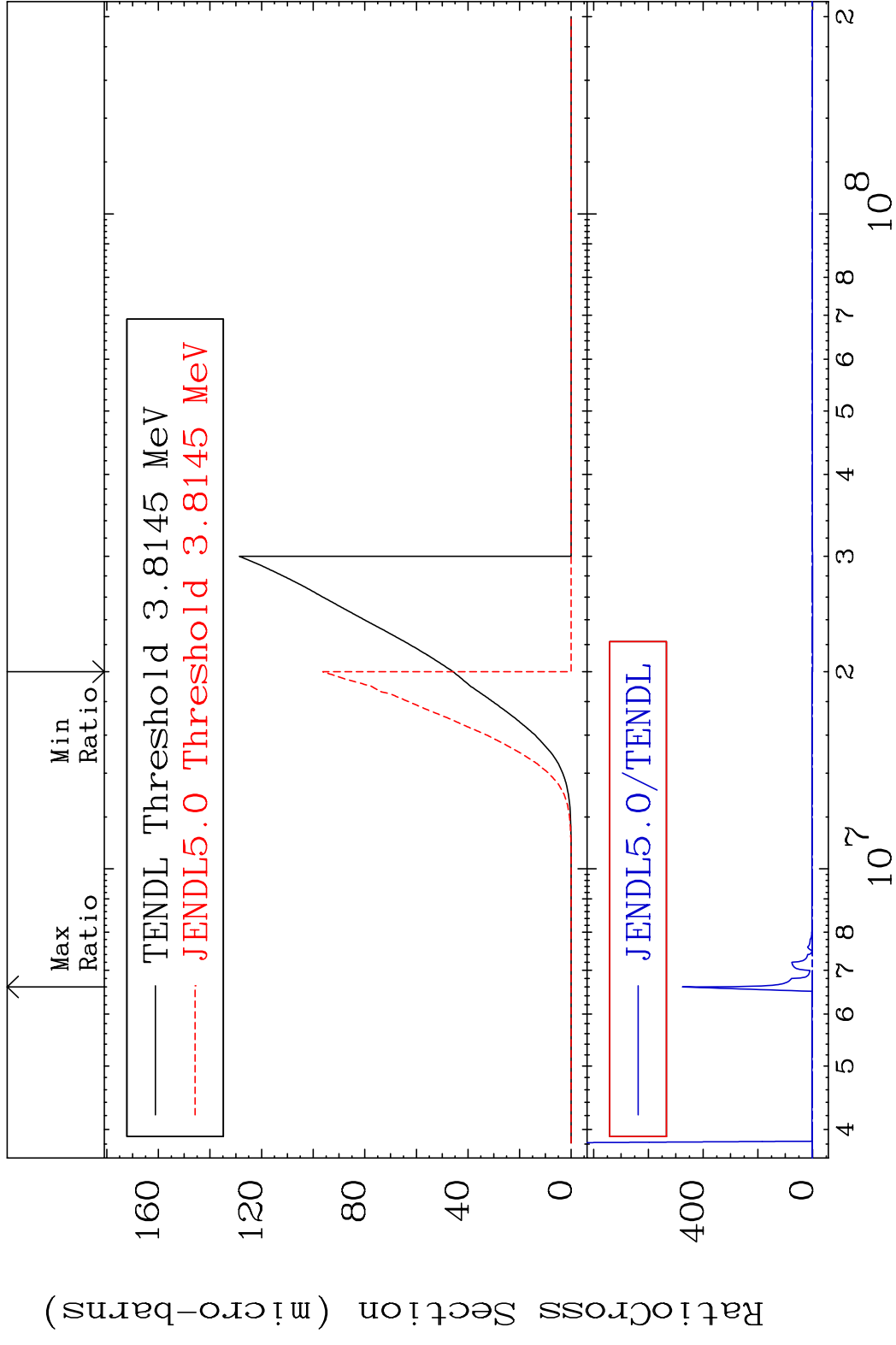


MAT 5819 (n, t):57-La-132m4 58-Ce-134  
 Radionuclide Production Cross Section 5080. %



73 Incident Energy (eV) 58-Ce-134

MAT 5819 (n,2p):56-Ba-133g 58-Ce-134  
 Radionuclide Production Cross Section Ratio 9999. %



MAT 5819 (n, 2p):56-Ba-133m2 58-Ce-134  
 Radionuclide Production Cross Section to 8698. %

