

Program Complot  
(Version 2021-1)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550

U.S.A.

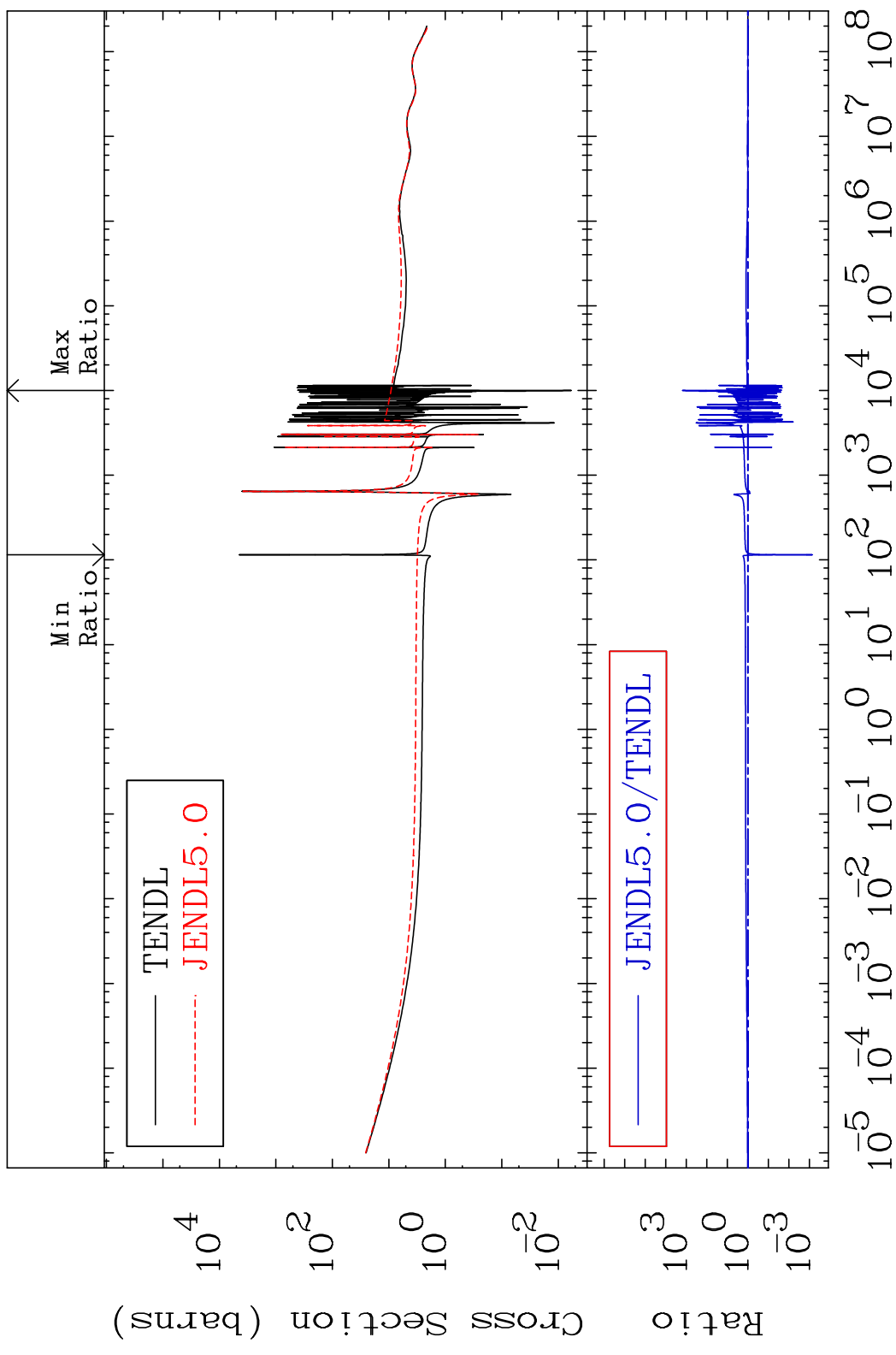
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 5449

Total Cross Section  
54-Xe-132  
-99.93 To 9999. %



1 Incident Energy (eV) 54-Xe-132

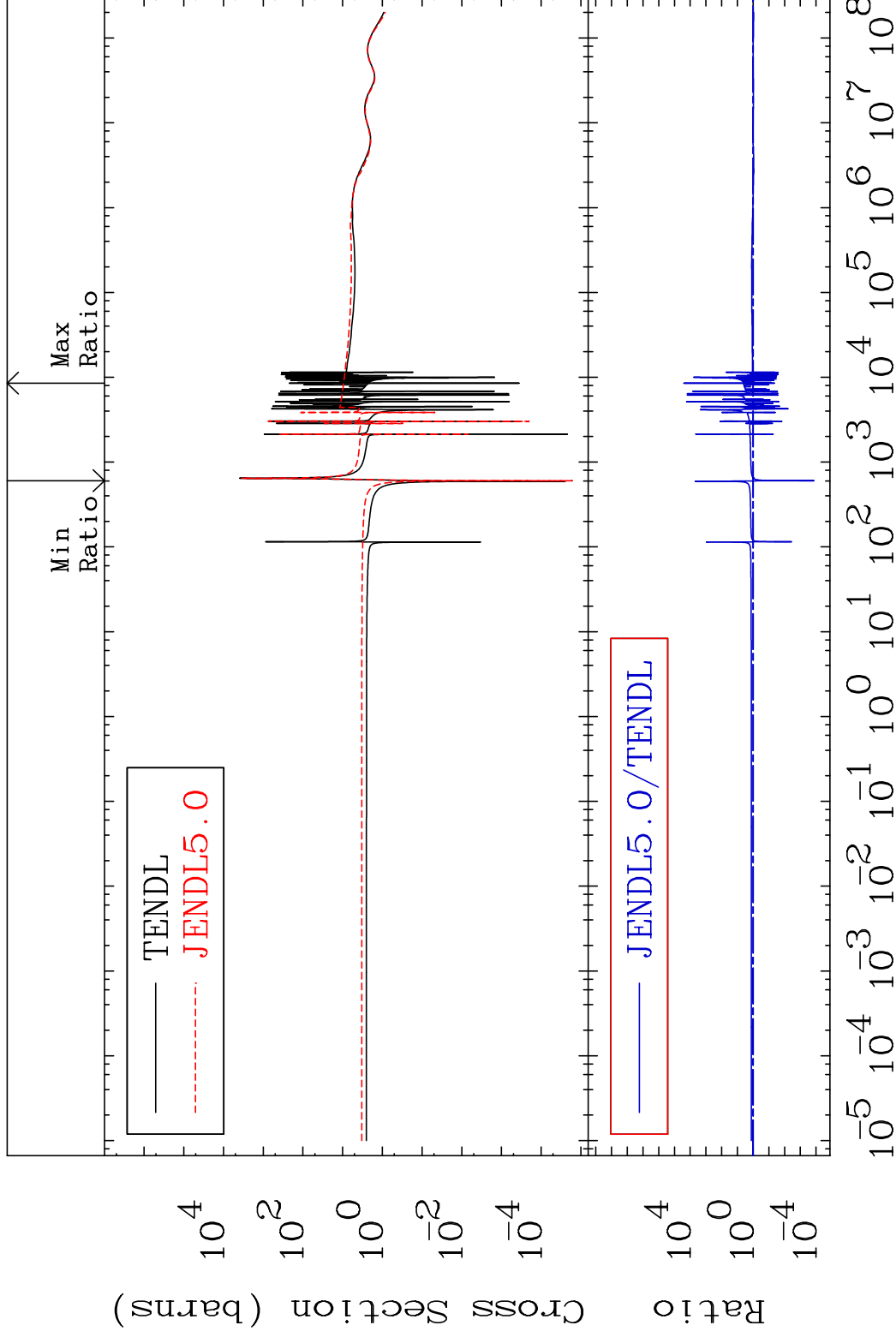
MAT 5449

Elastic

54-Xe-132

Cross Section

-99.99 To 9999. %

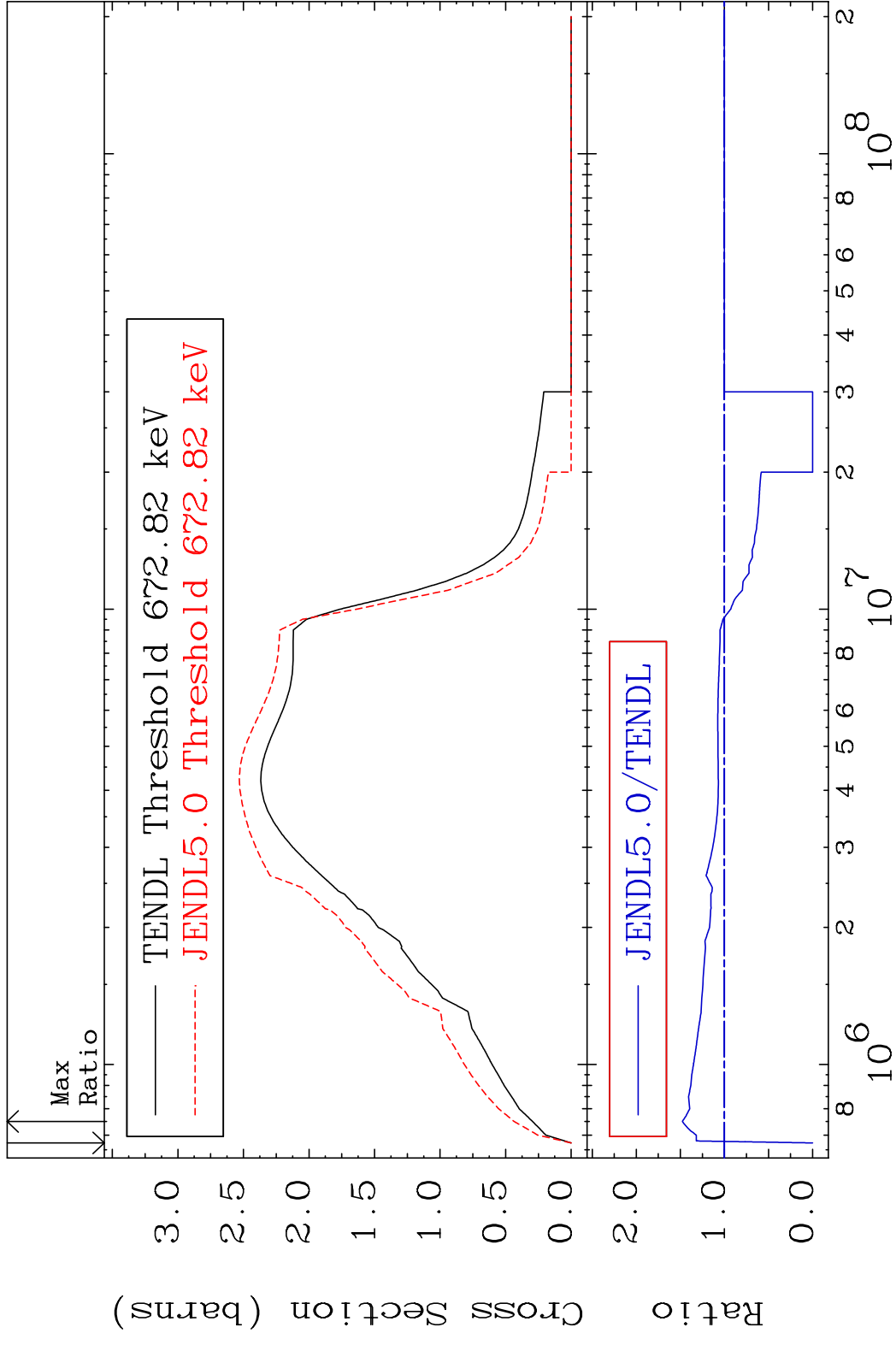


2

Incident Energy (eV)

54-Xe-132

MAT 5449 Inelastic 54-Xe-132  
 Cross Section -100.0 To 47.73 %



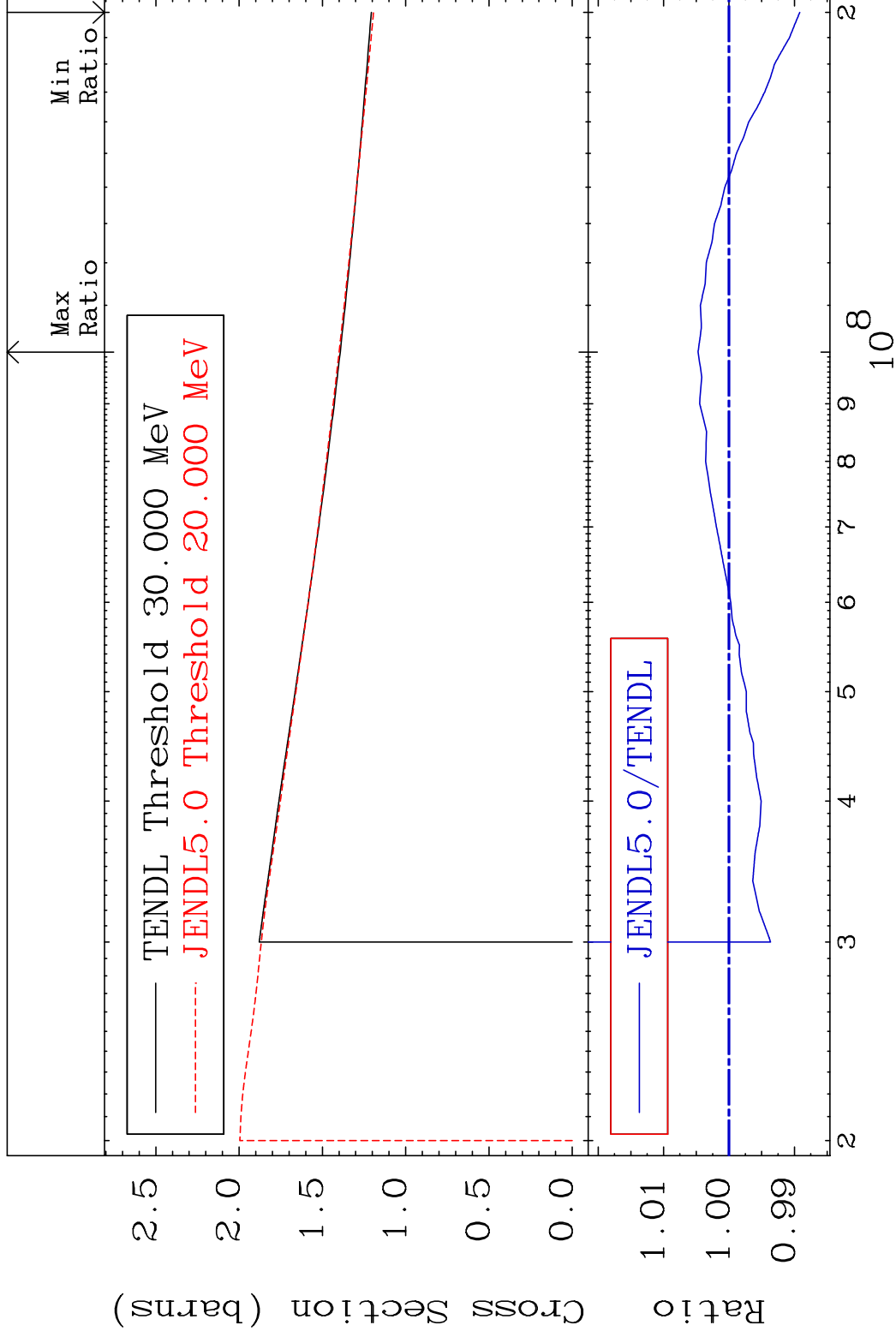
3 Incident Energy (eV) 54-Xe-132

MAT 5449

(n, remainder)

54-Xe-132

Cross Section -1.081 To 0.473 %



4

Incident Energy (eV)

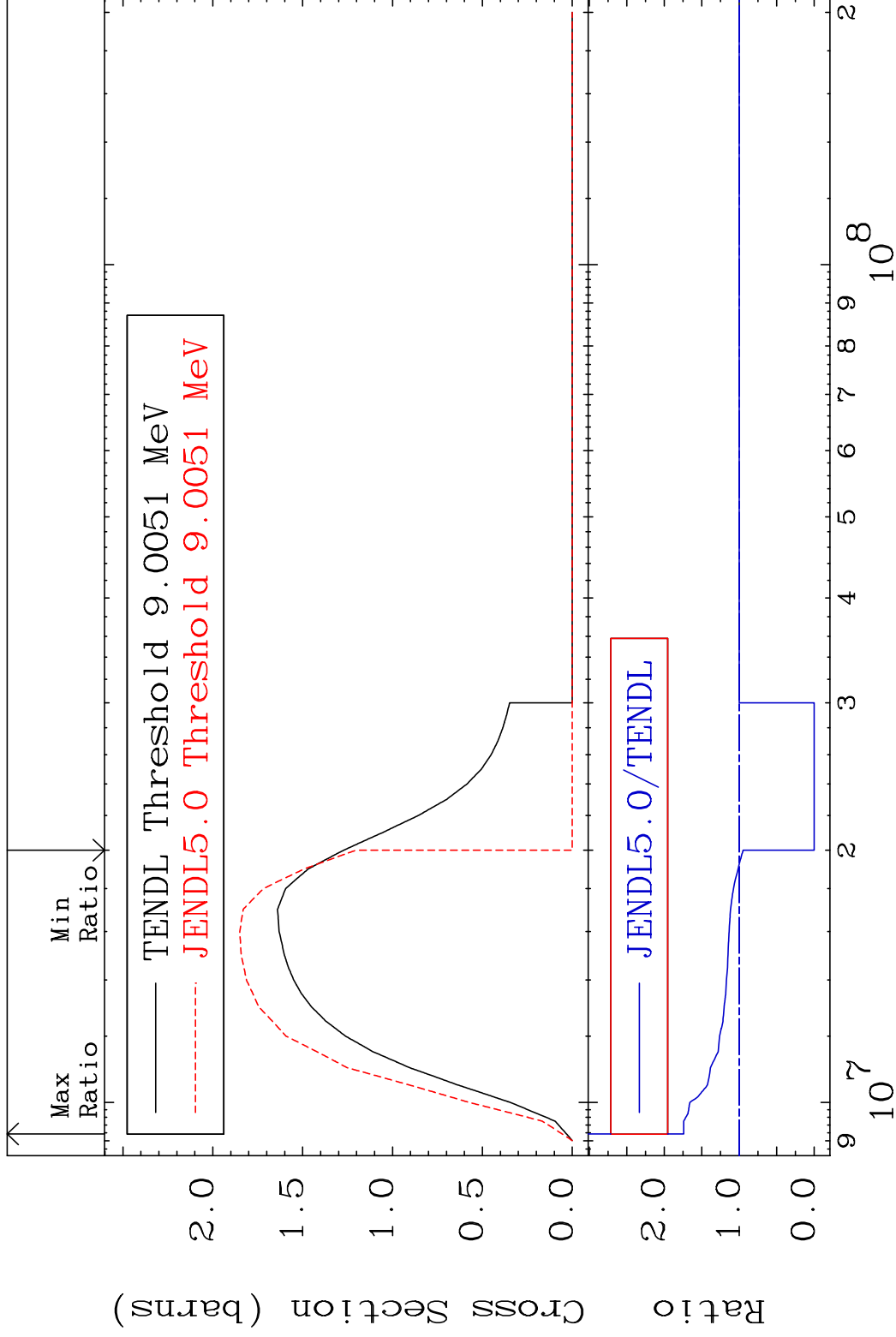
54-Xe-132

MAT 5449

(n,2n)

54-Xe-132

Cross Section -100.0 To 74.16 %



5

Incident Energy (eV)

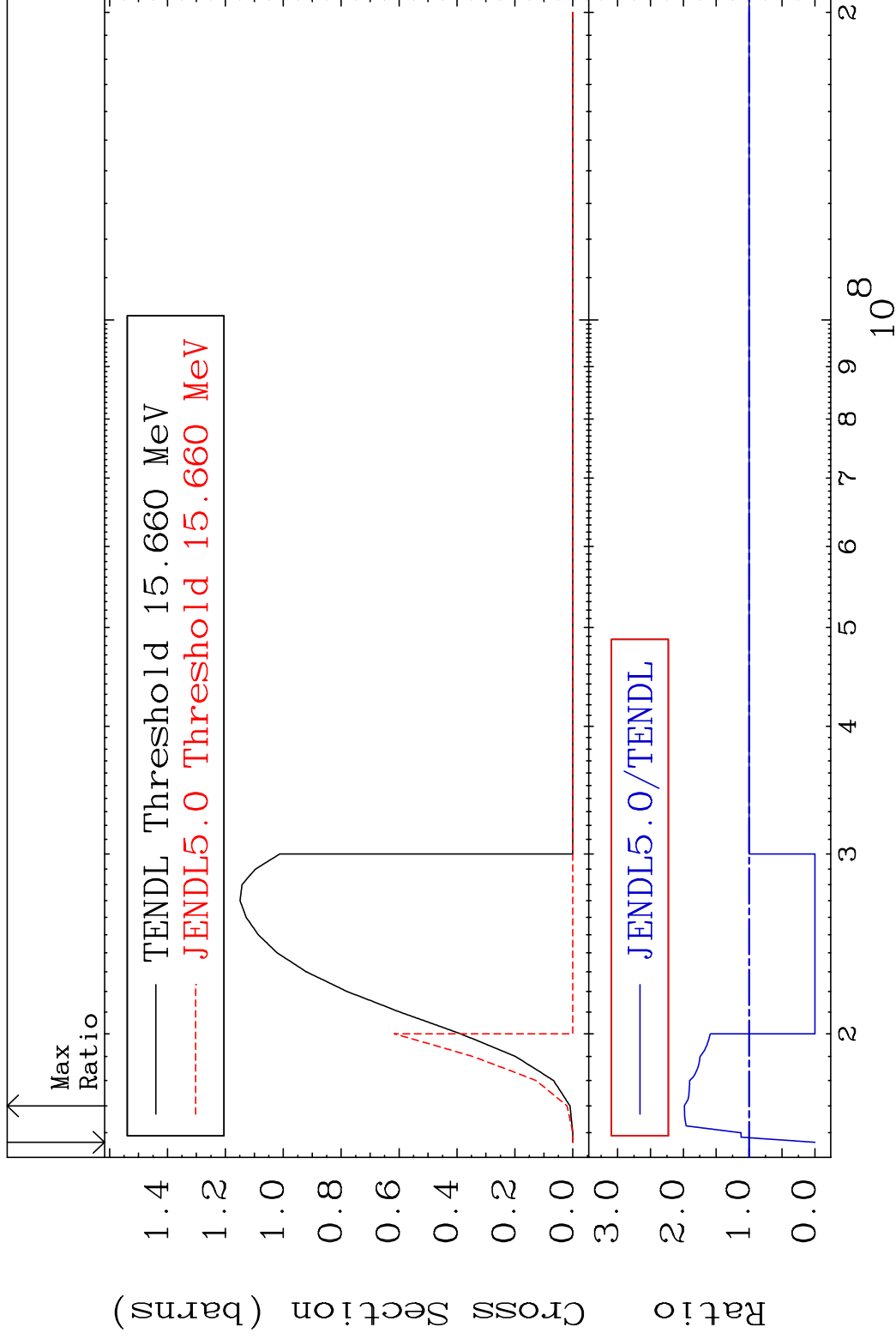
54-Xe-132

MAT 5449

(n,3n)

54-Xe-132

Cross Section -100.0 To 98.52 %

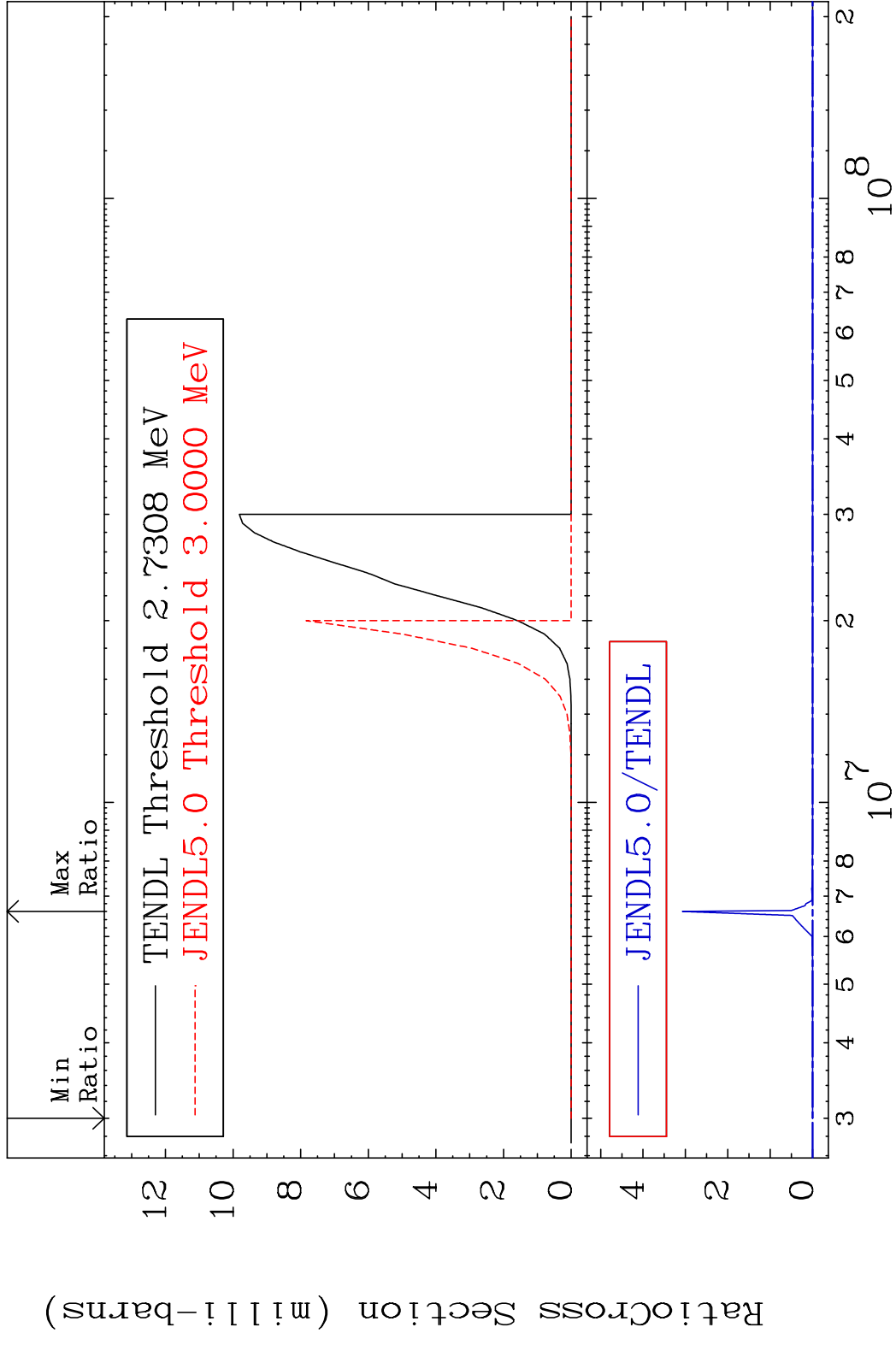


6

Incident Energy (eV)

54-Xe-132

MAT 5449 (n, n')  $\alpha$  54-Xe-132  
 Cross Section -100.0 To 9999. %



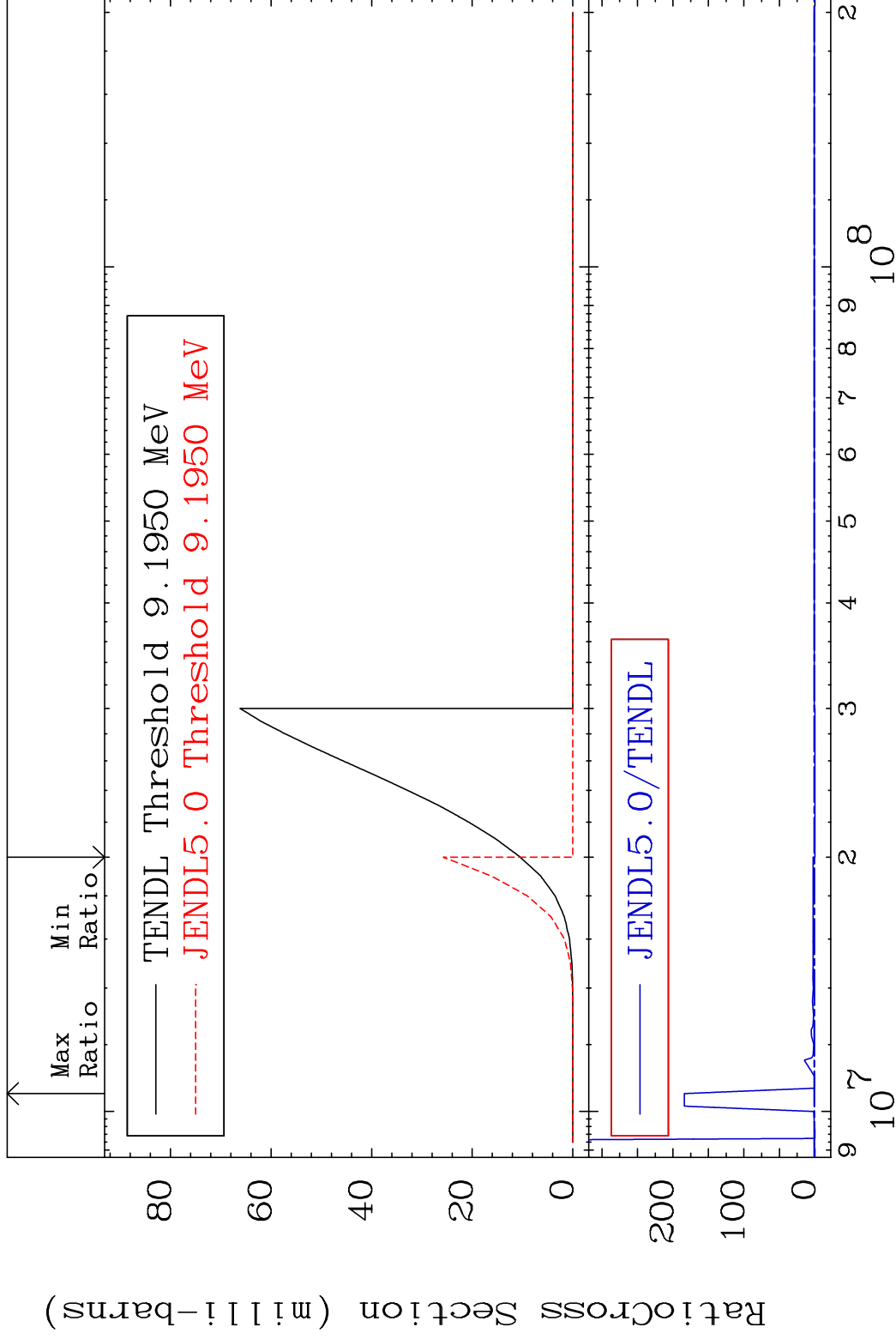
7 7 Incident Energy (eV) 54-Xe-132

MAT 5449

(n, n') p

54-Xe-132

Cross Section -100.0 To 9999. %

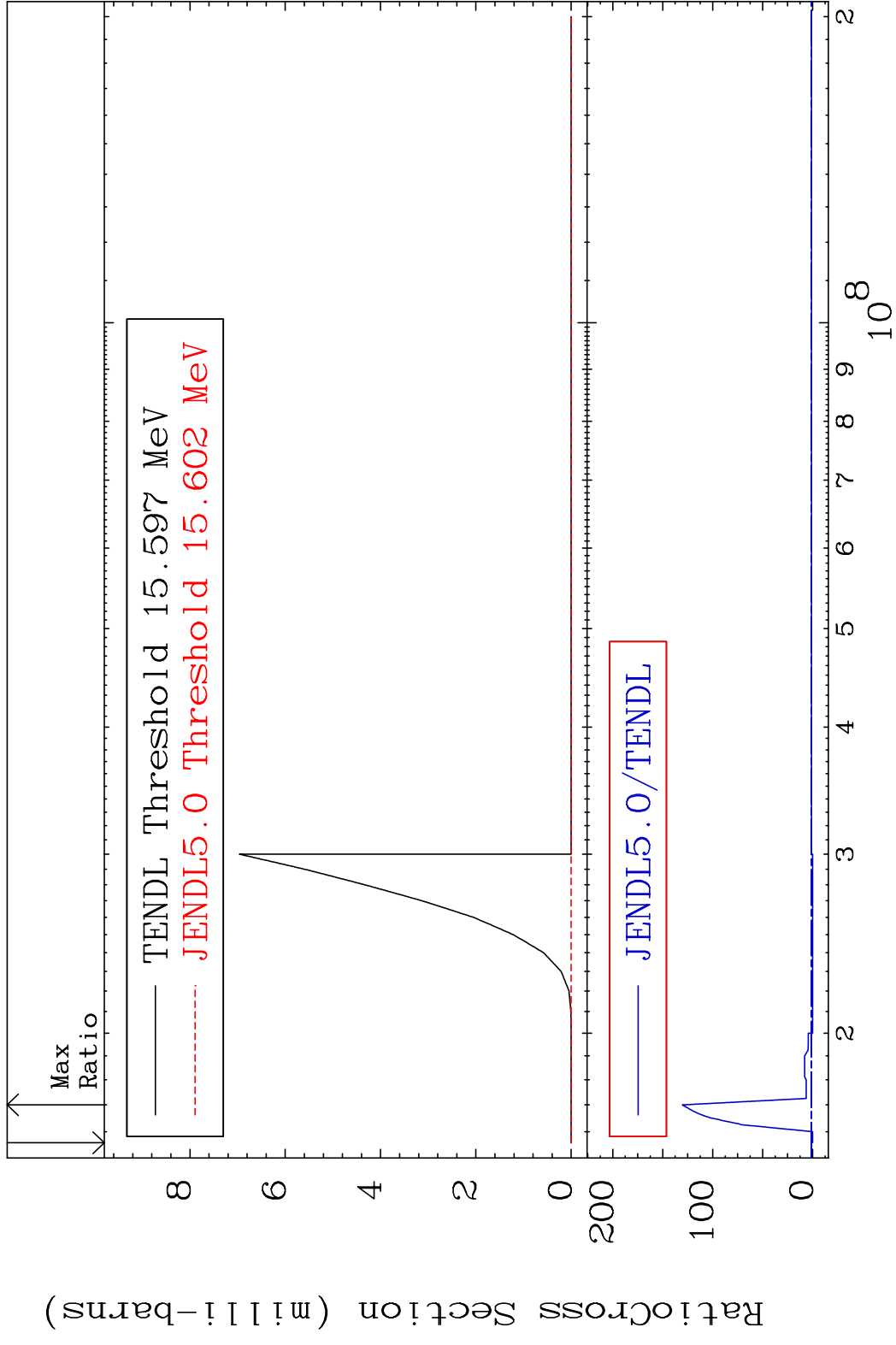


8

Incident Energy (eV)

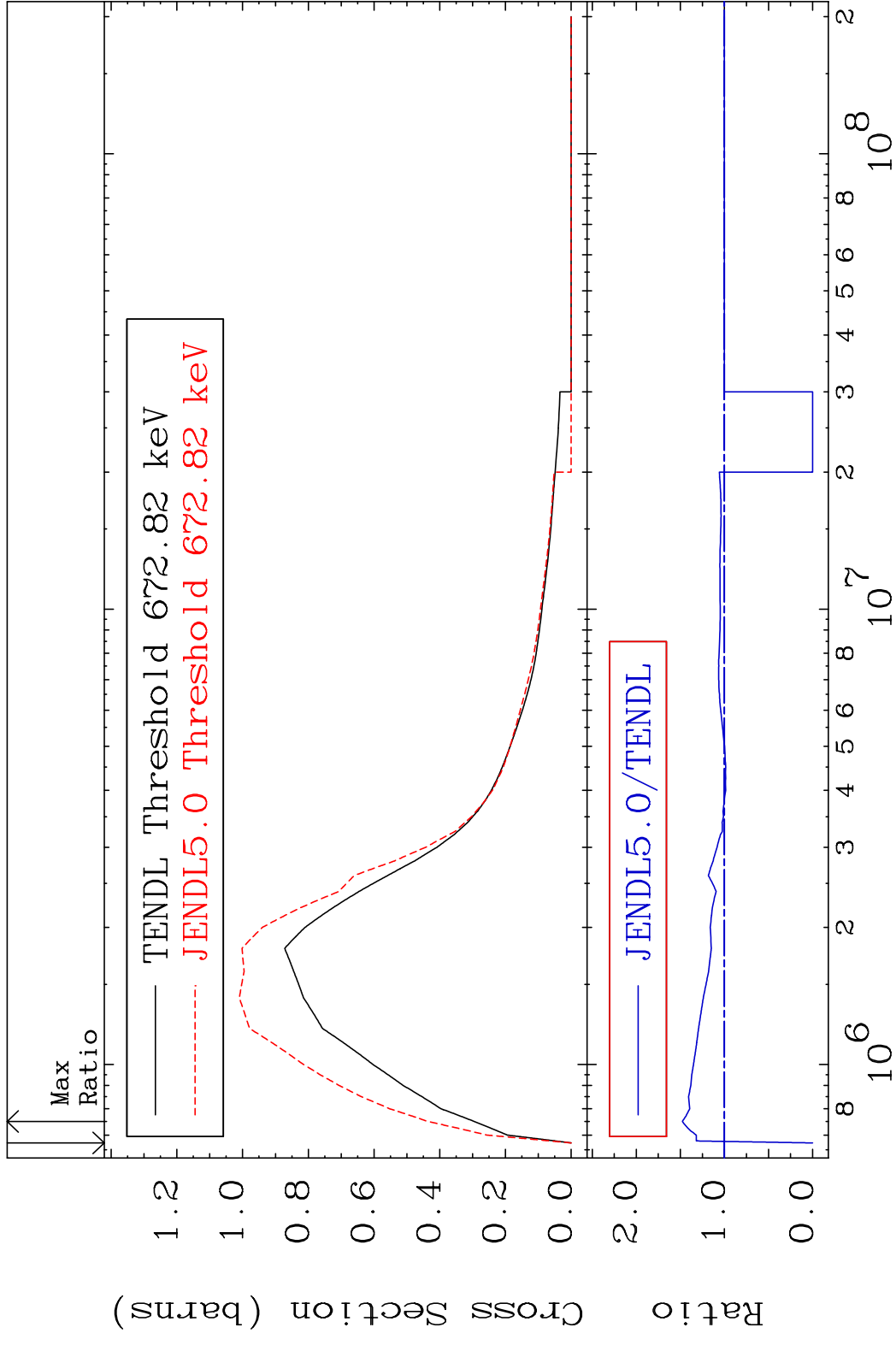
54-Xe-132

MAT 5449 (n, n') d 54-Xe-132  
 Cross Section -100.0 To 9999. %



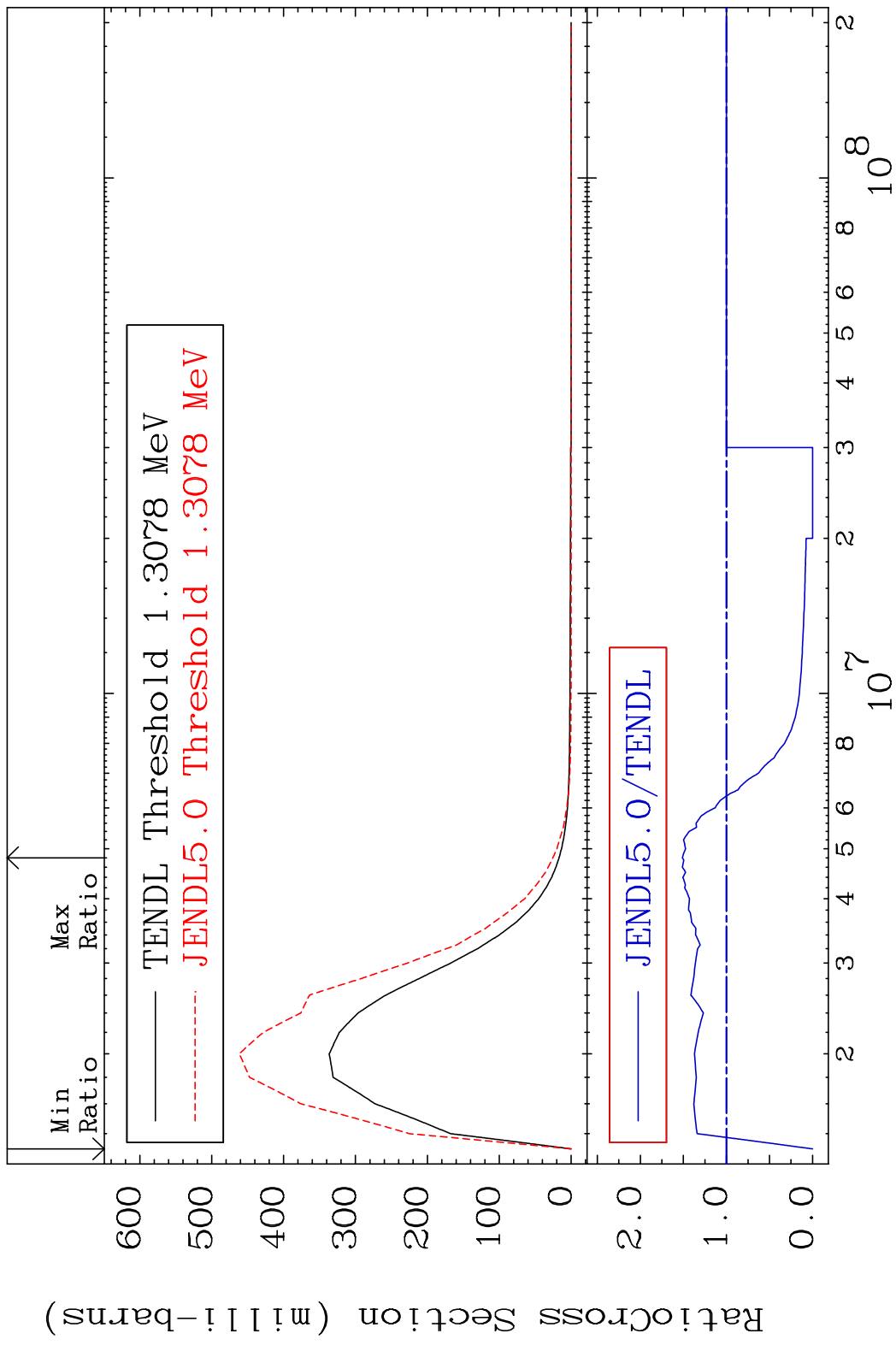
9 Incident Energy (eV) 54-Xe-132

MAT 5449 MT= 51 (n, n') Level 54-Xe-132  
 Cross Section -100.0 To 47.73 %

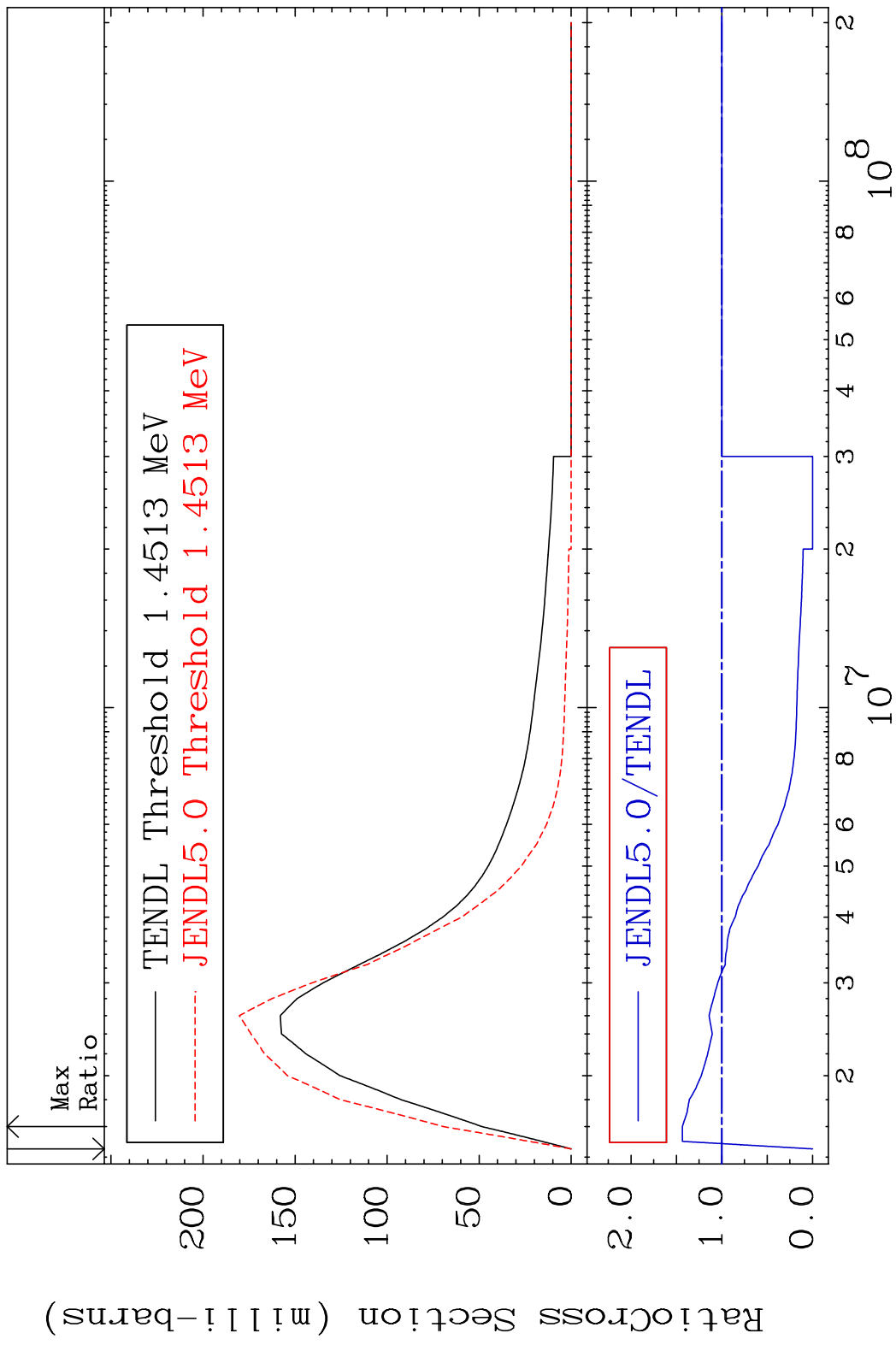


10 Incident Energy (eV) 54-Xe-132

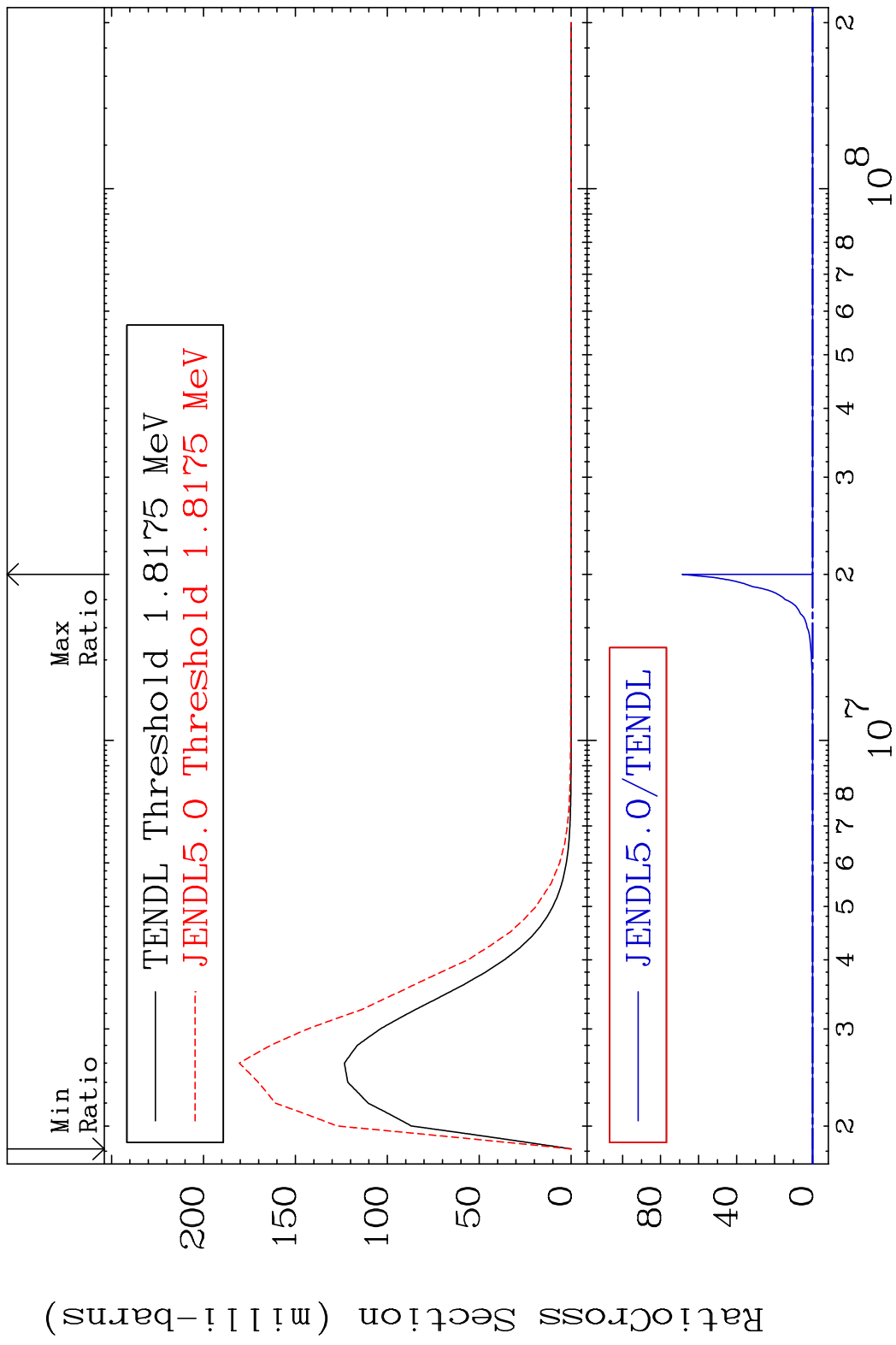
MAT 5449 MT= 52 (n,n') Level 54-Xe-132  
 Cross Section -100.0 To 51.20 %



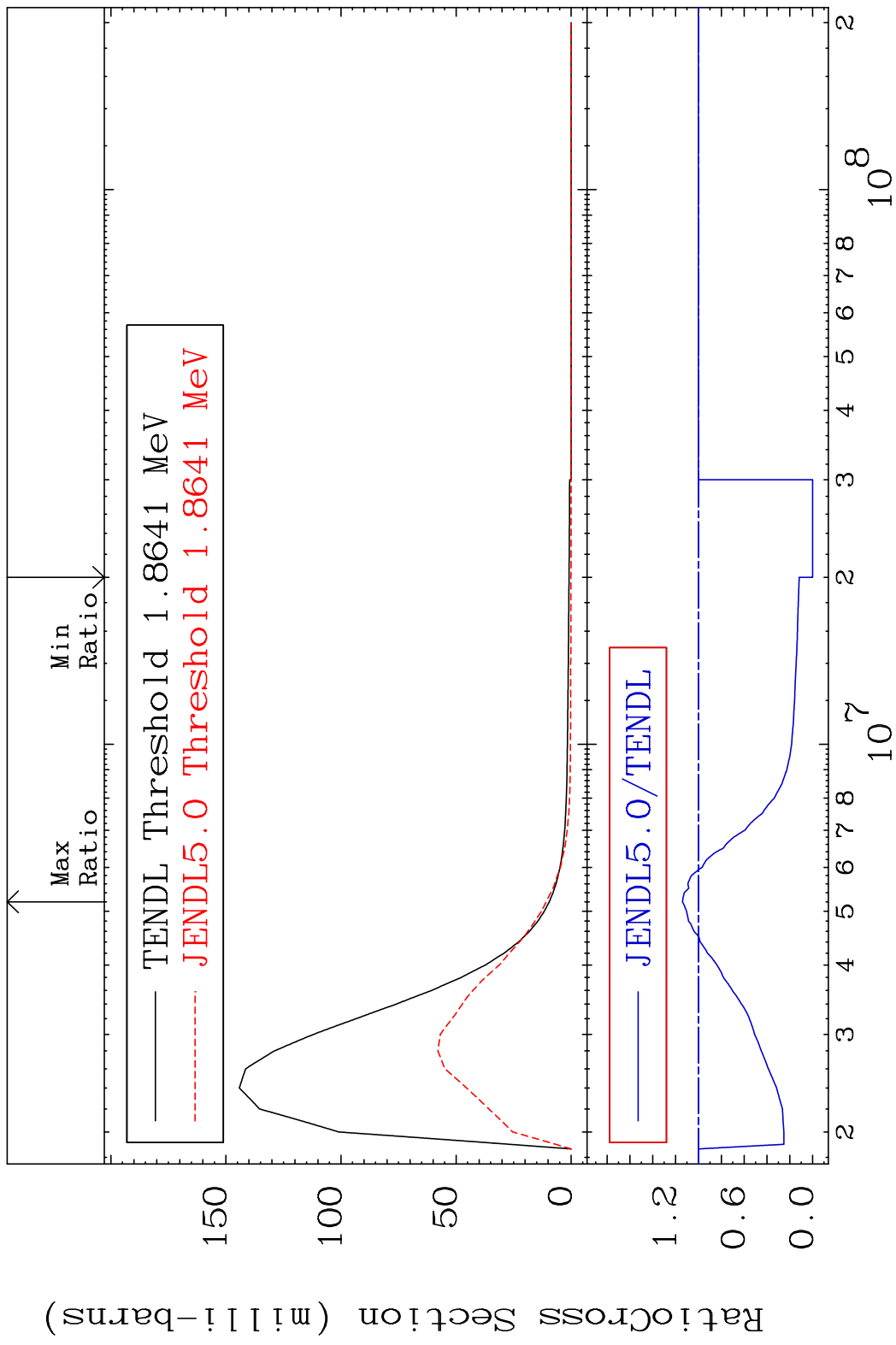
MAT 5449 MT= 53 (n, n') Level 54-Xe-132  
 Cross Section -100.0 To 43.47 %



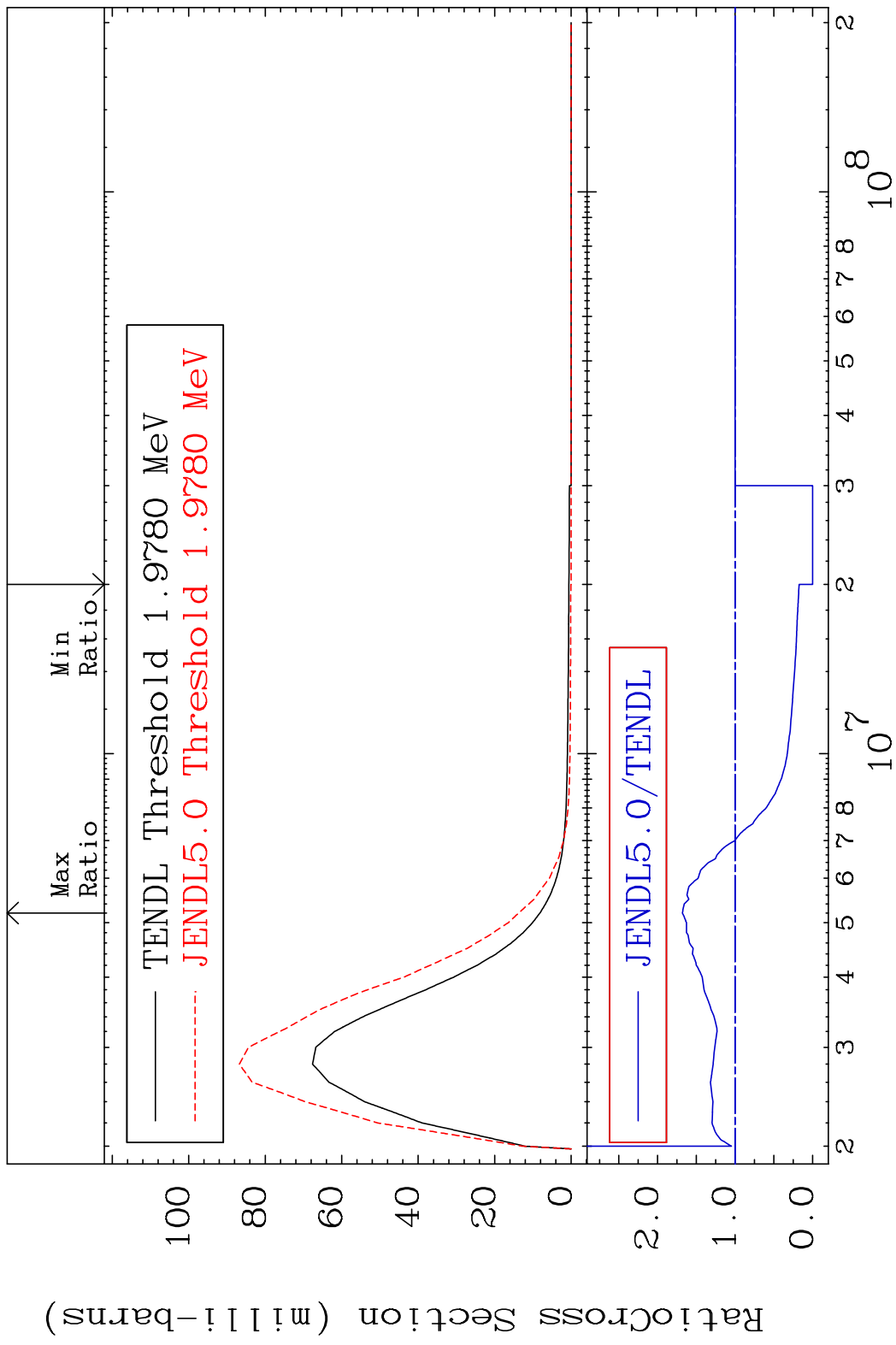
MAT 5449 MT= 54 (n, n') Level 54-Xe-132  
 Cross Section -100.0 To 9999. %



MAT 5449 MT= 55 (n, n') Level 54-Xe-132  
 Cross Section -100.0 To 14.12 %

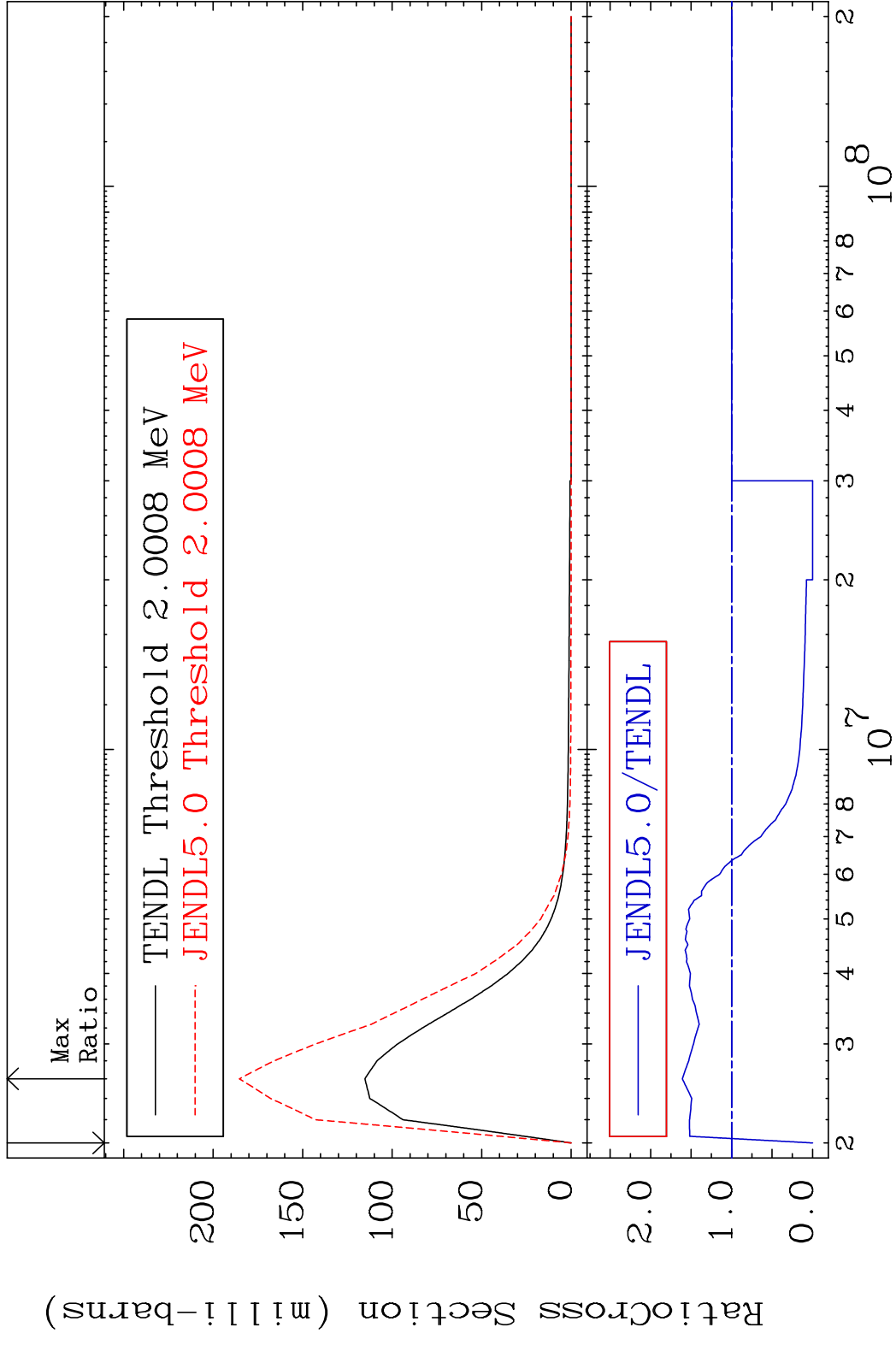


MAT 5449 MT= 56 (n, n') Level 54-Xe-132  
 Cross Section -100.0 To 68.05 %

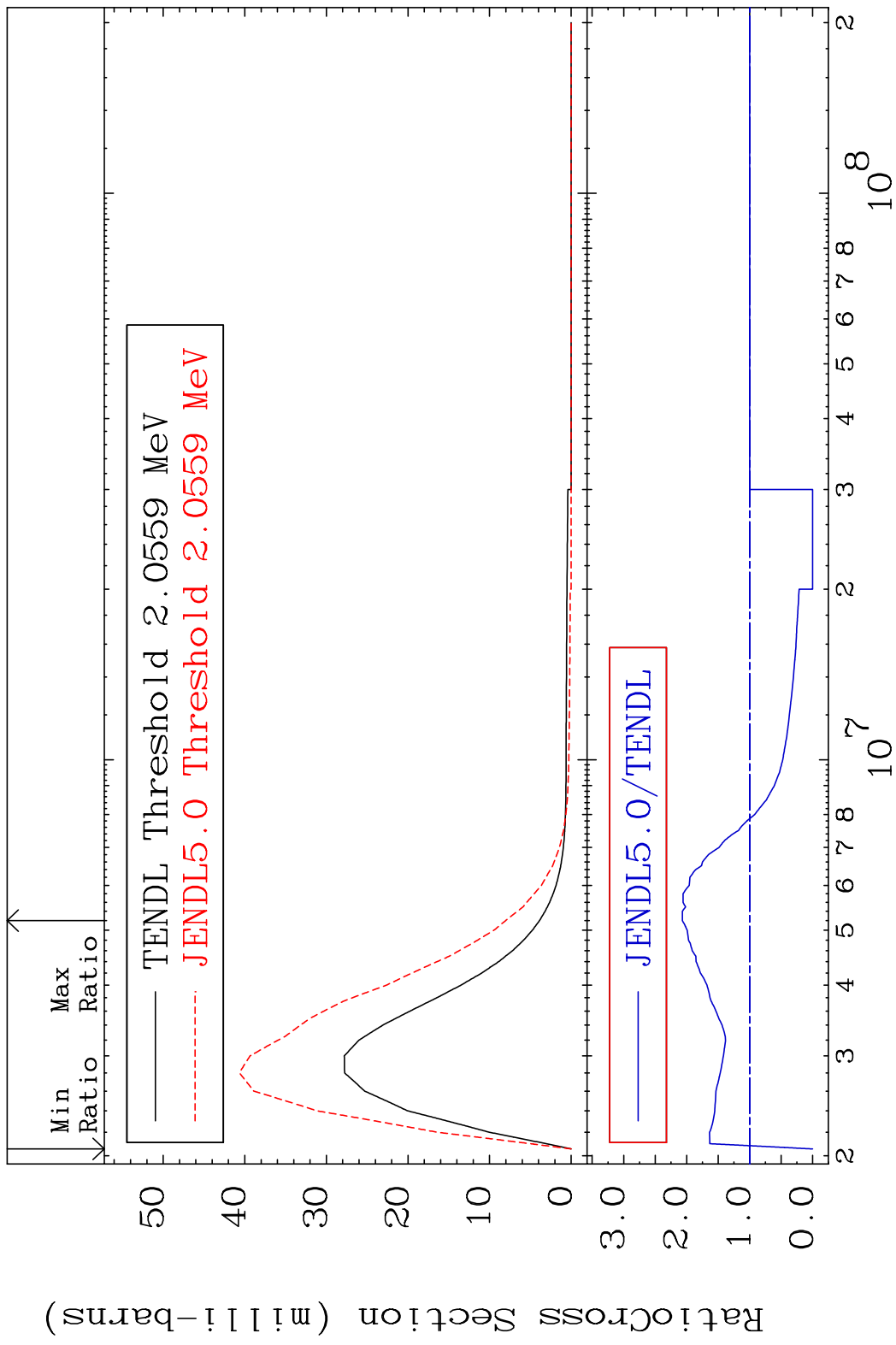


15 54-Xe-132

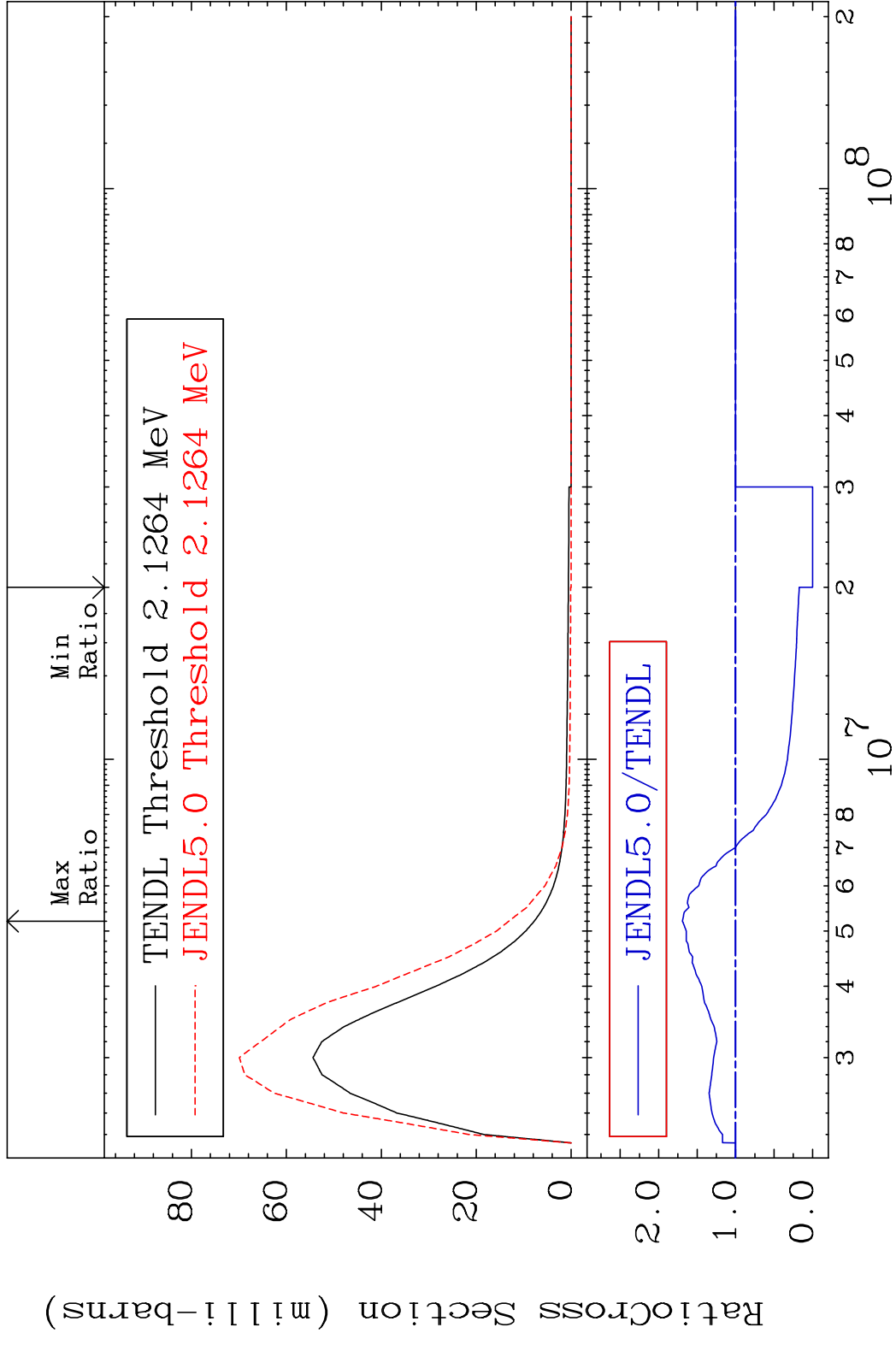
MAT 5449 MT= 57 (n,n') Level 54-Xe-132  
 Cross Section -100.0 To 60.85 %



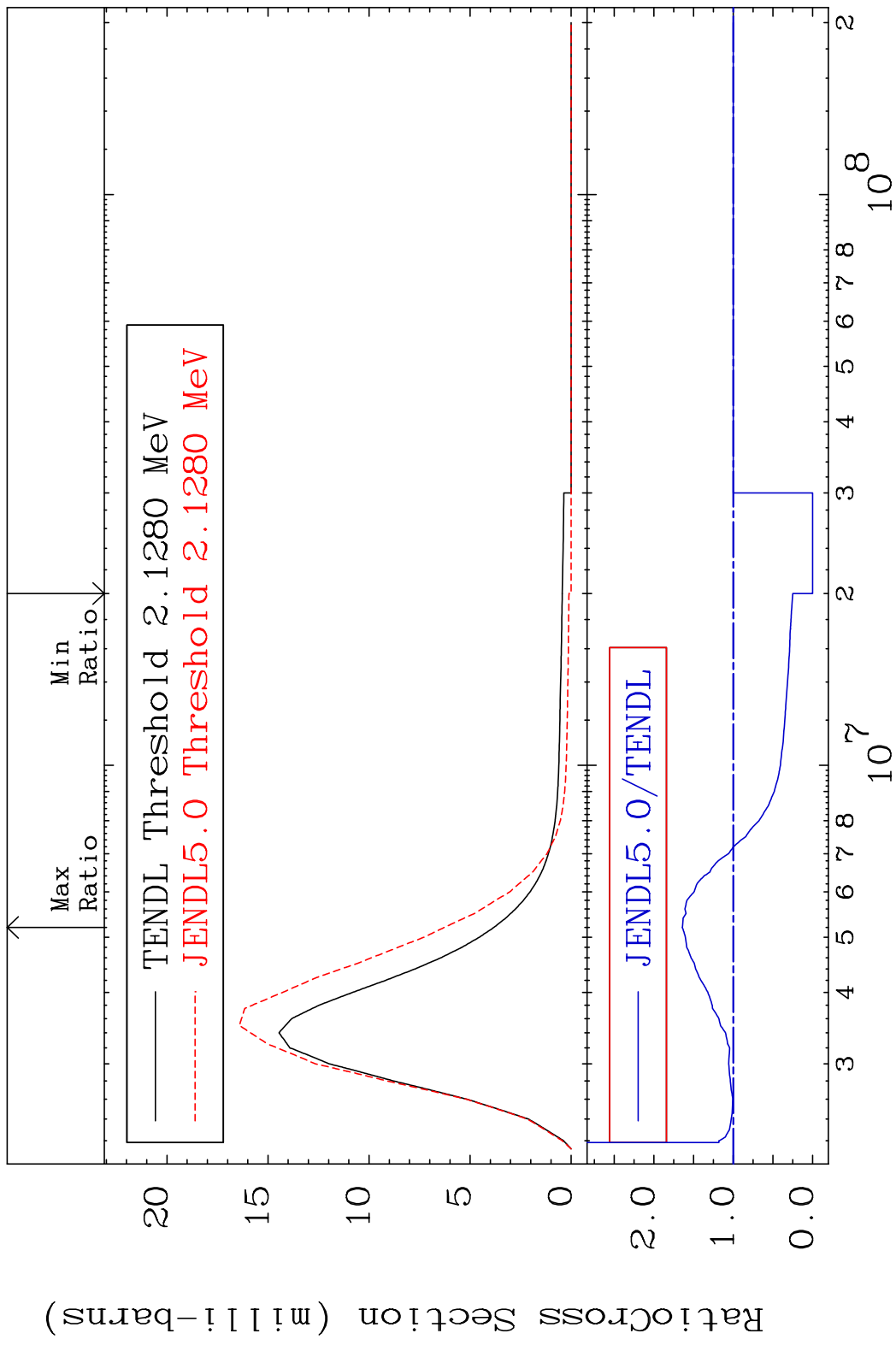
MAT 5449 MT= 58 (n,n') Level 54-Xe-132  
 Cross Section -100.0 To 106.8 %



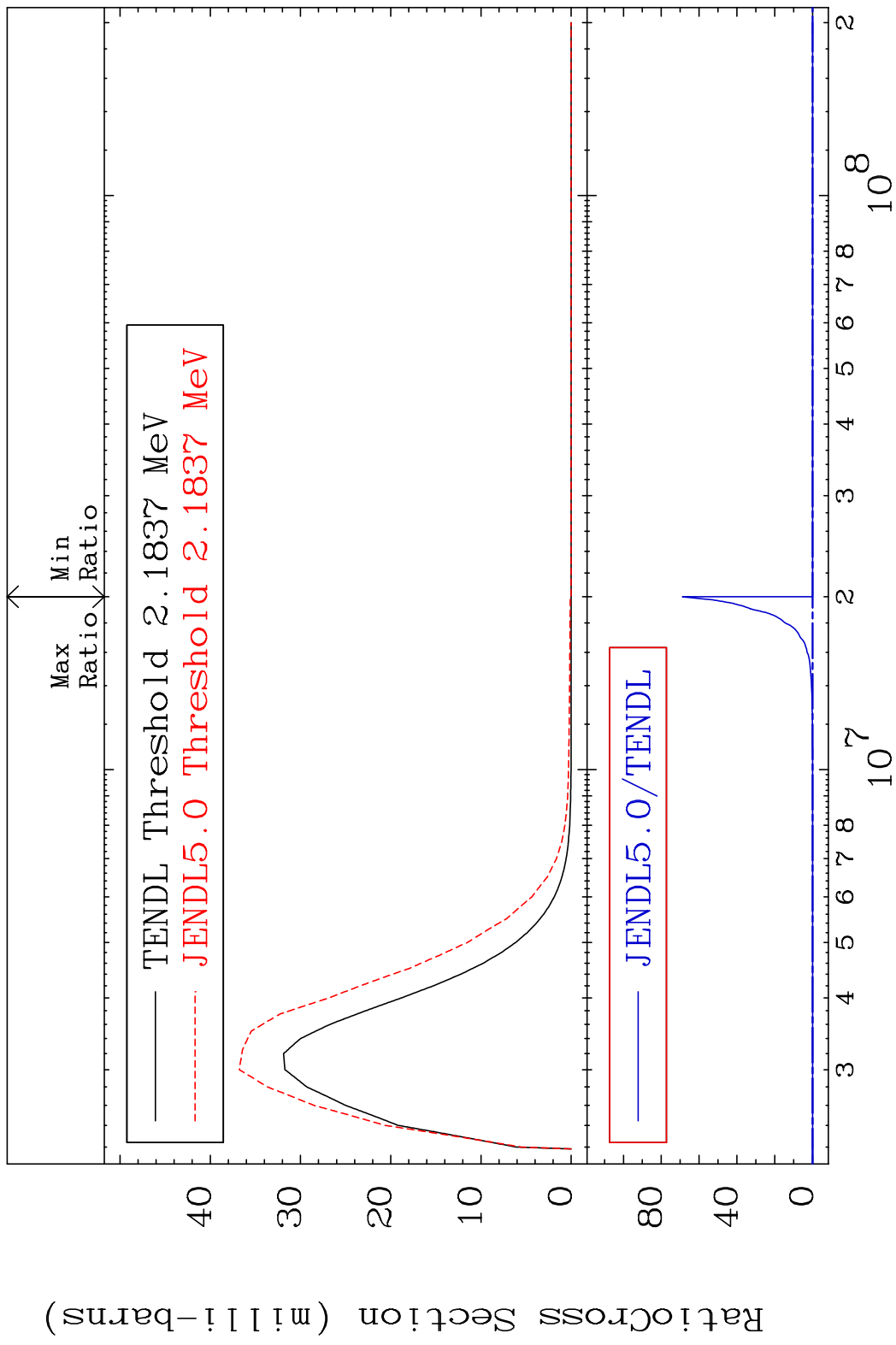
MAT 5449 MT= 59 (n, n') Level 54-Xe-132  
 Cross Section -100.0 To 69.21 %



MAT 5449 MT= 60 (n, n') Level 54-Xe-132  
 Cross Section -100.0 To 64.15 %

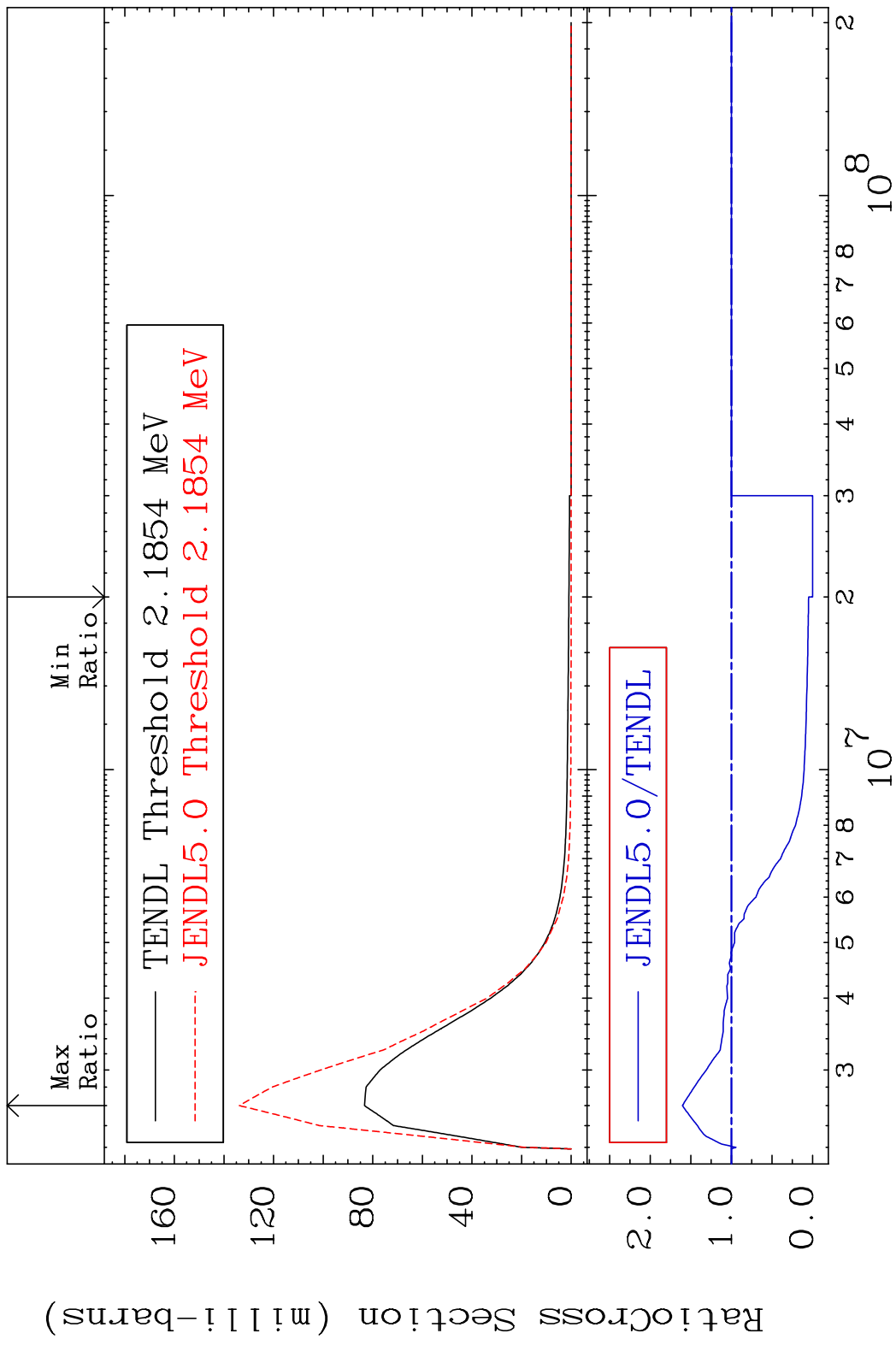


MAT 5449 MT= 61 (n, n') Level 54-Xe-132  
 Cross Section -100.0 To 9999. %

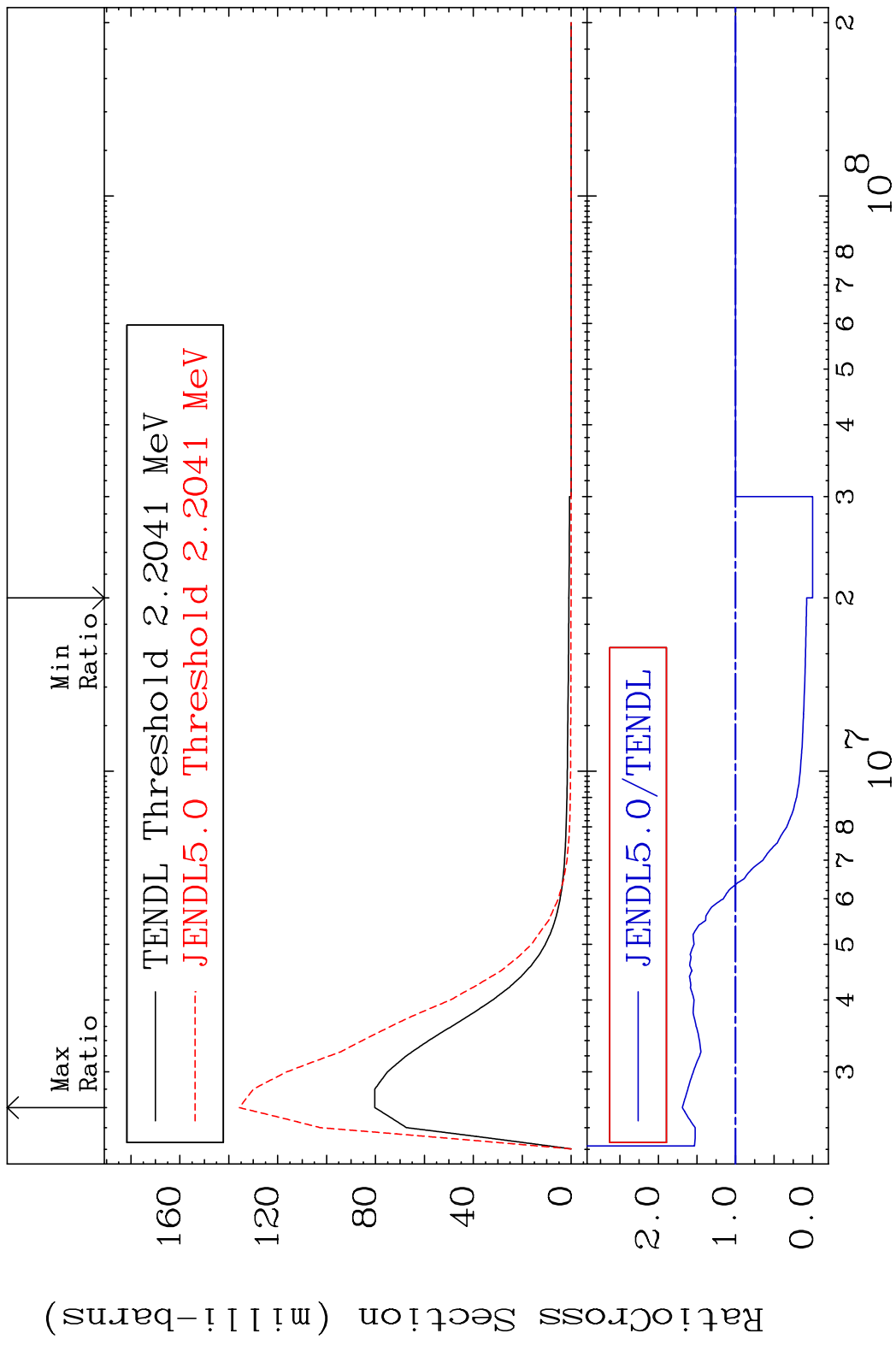


20 54-Xe-132

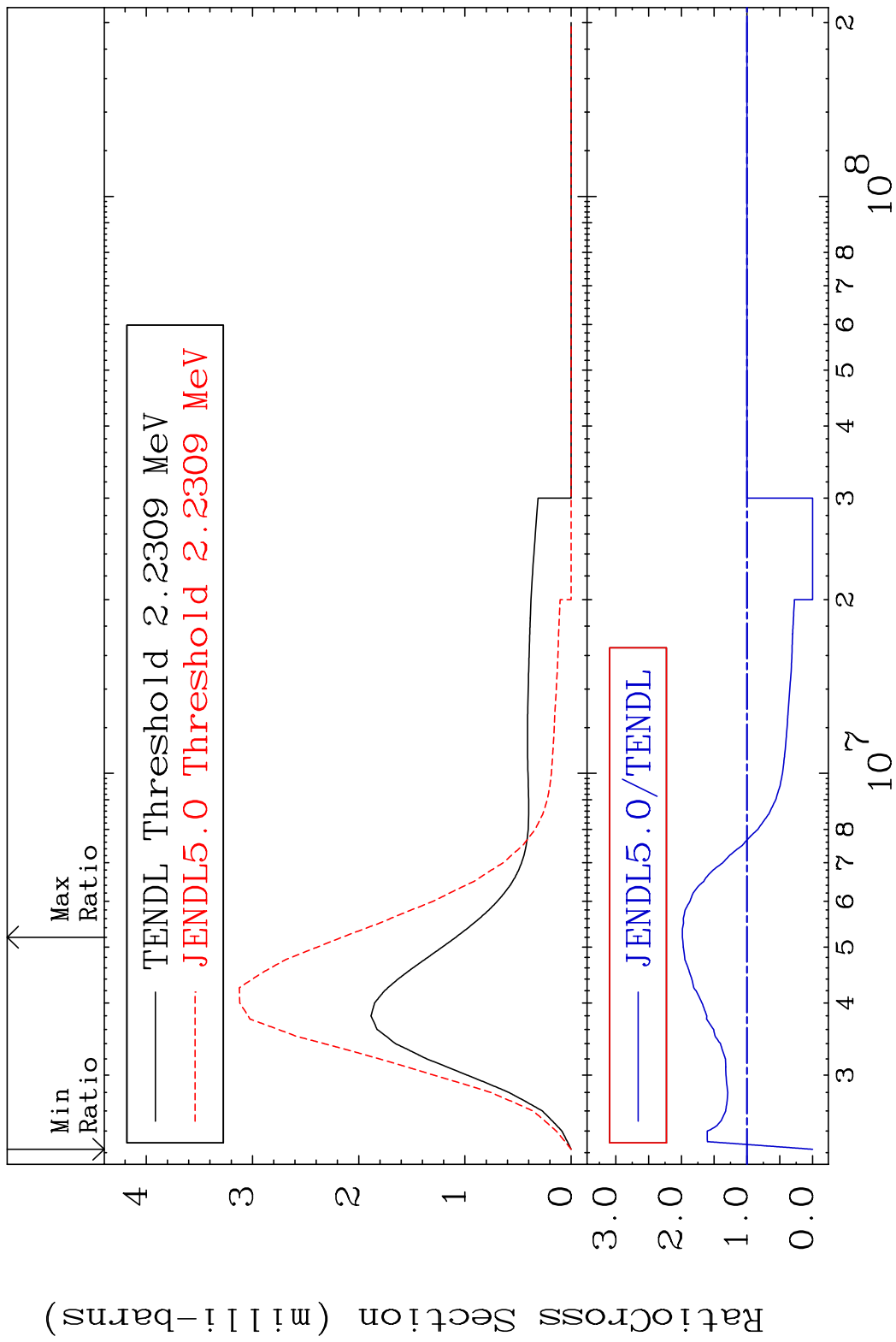
MAT 5449 MT= 62 (n, n') Level 54-Xe-132  
 Cross Section -100.0 To 60.49 %



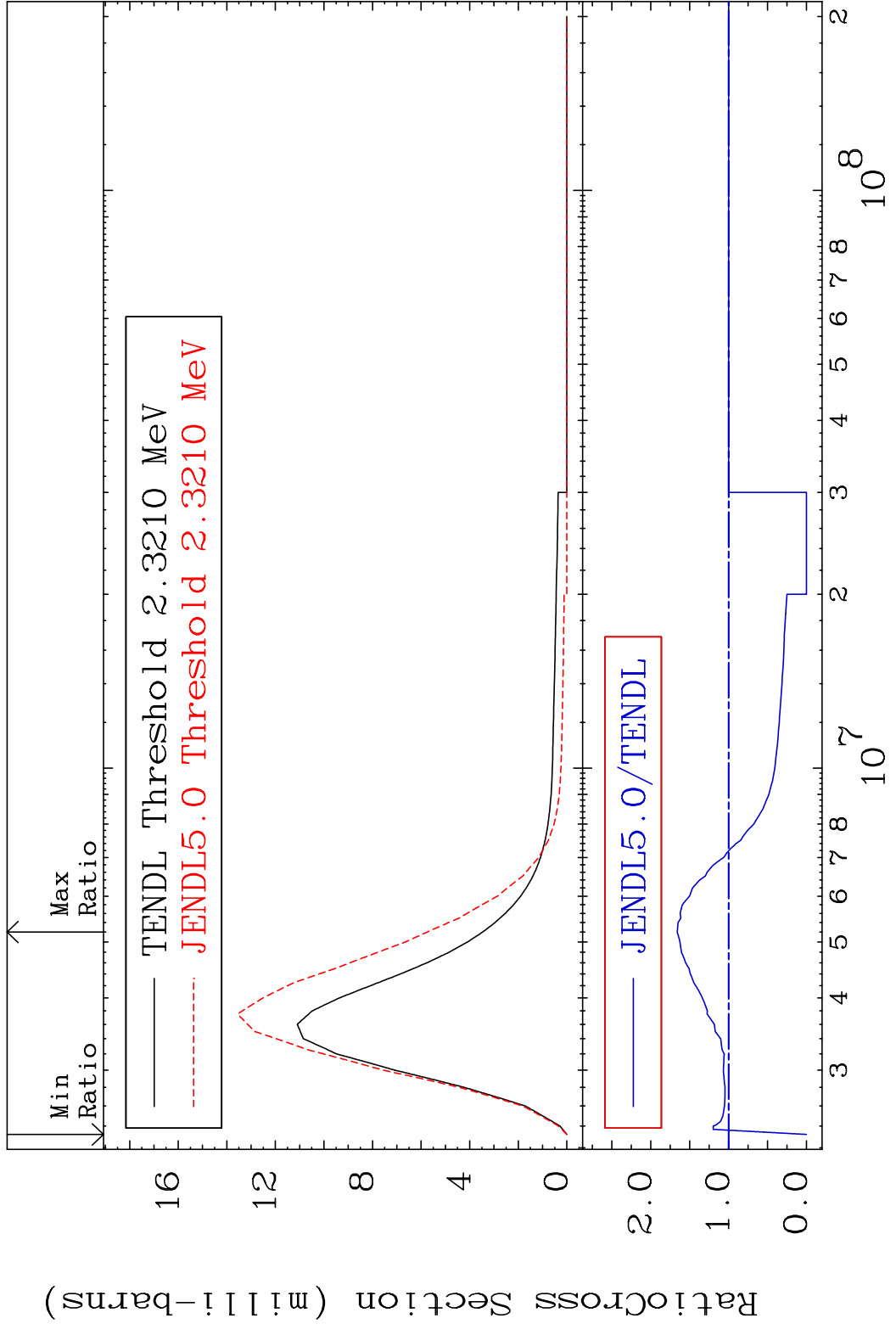
MAT 5449 MT= 63 (n, n') Level 54-Xe-132  
 Cross Section -100.0 To 68.93 %



MAT 5449 MT= 64 (n,n') Level 54-Xe-132  
 Cross Section -100.0 To 98.55 %

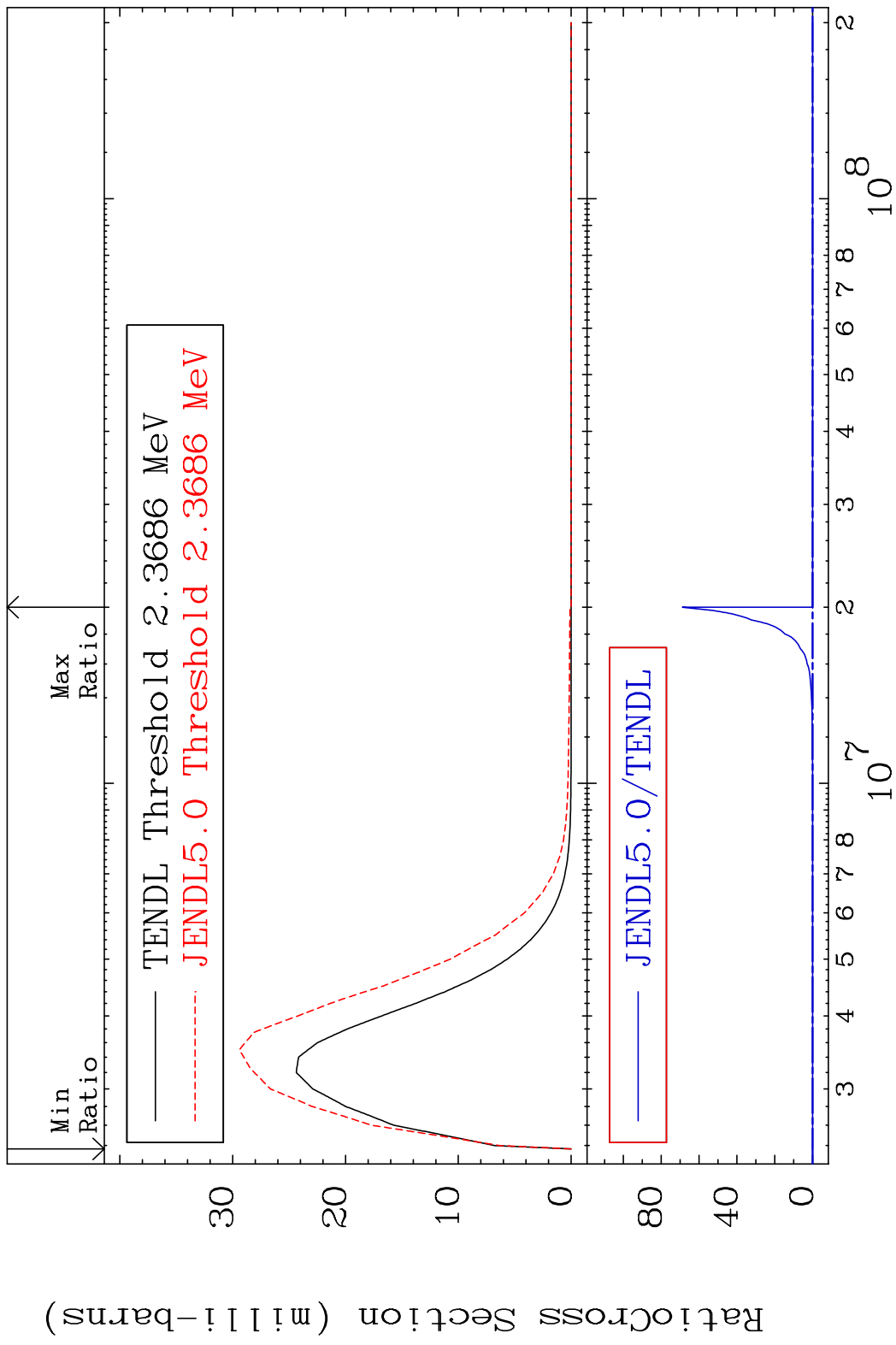


MAT 5449 MT= 65 (n,n') Level 54-Xe-132  
 Cross Section -100.0 To 66.03 %

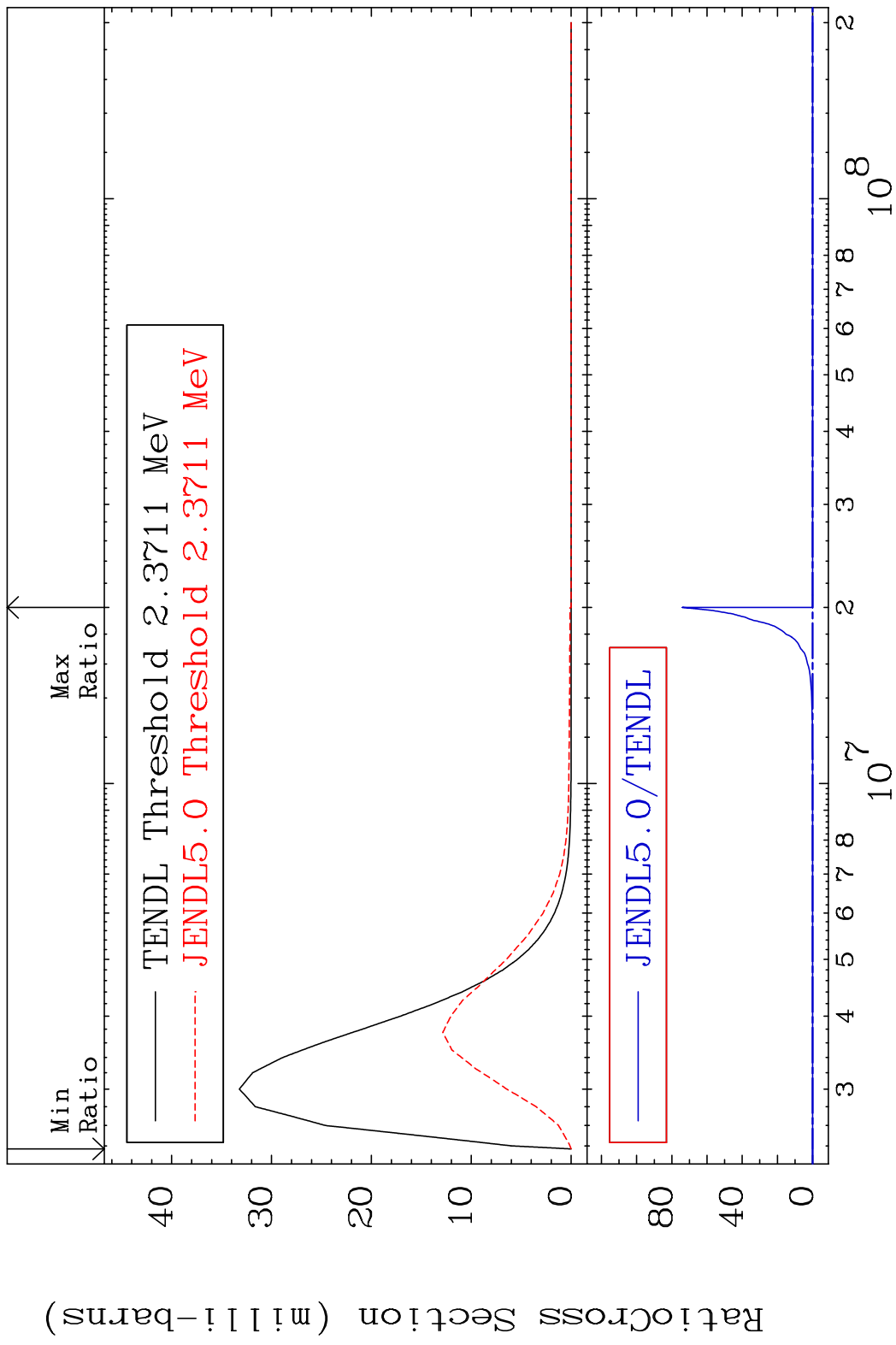


24 Incident Energy (eV) 54-Xe-132

MAT 5449 MT= 66 (n, n') Level 54-Xe-132  
 Cross Section -100.0 To 9999. %



MAT 5449 MT= 67 (n, n') Level 54-Xe-132  
 Cross Section -100.0 To 9999. %

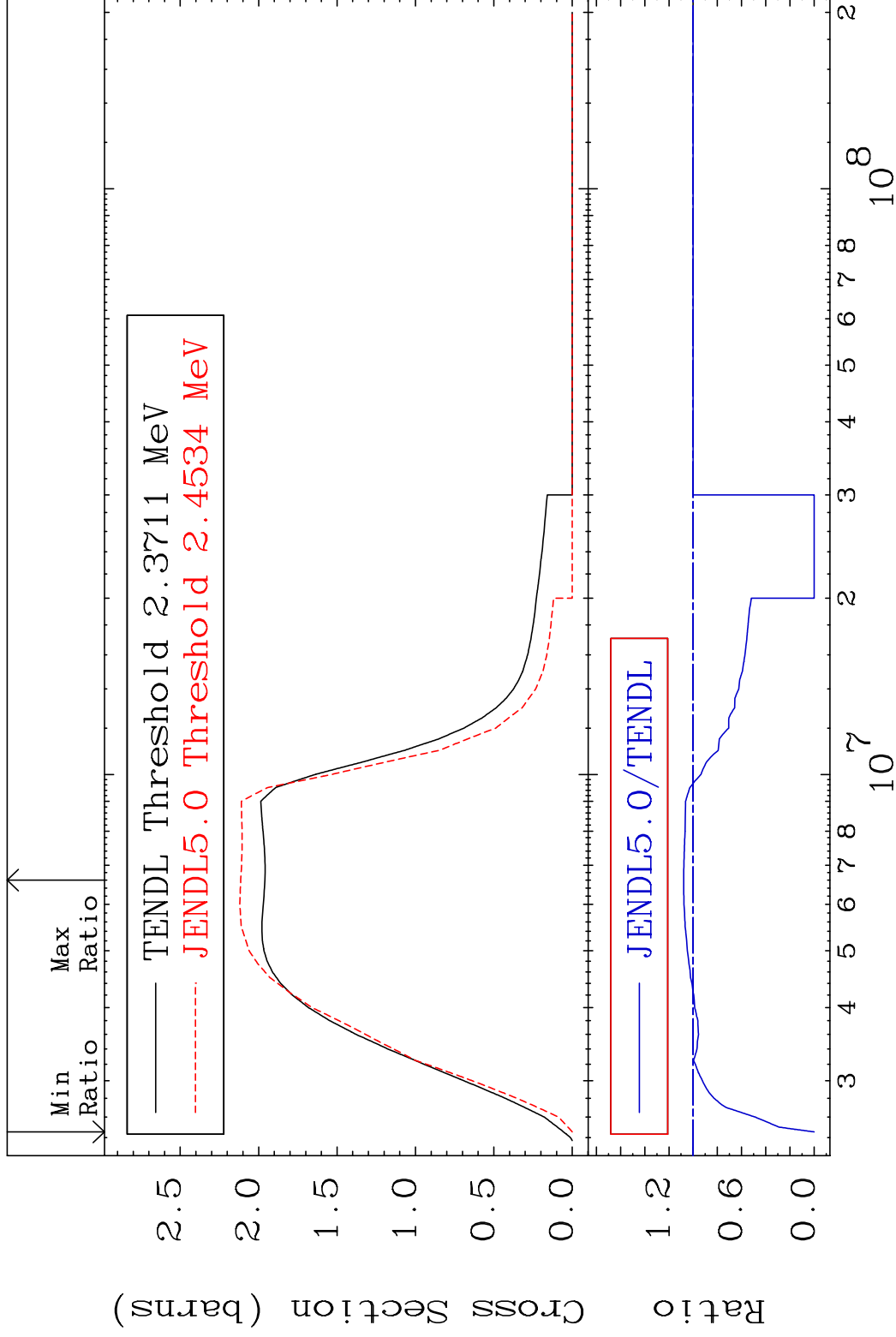


MAT 5449

(n,n') Continuum

54-Xe-132

Cross Section -100.0 To 7.855 %

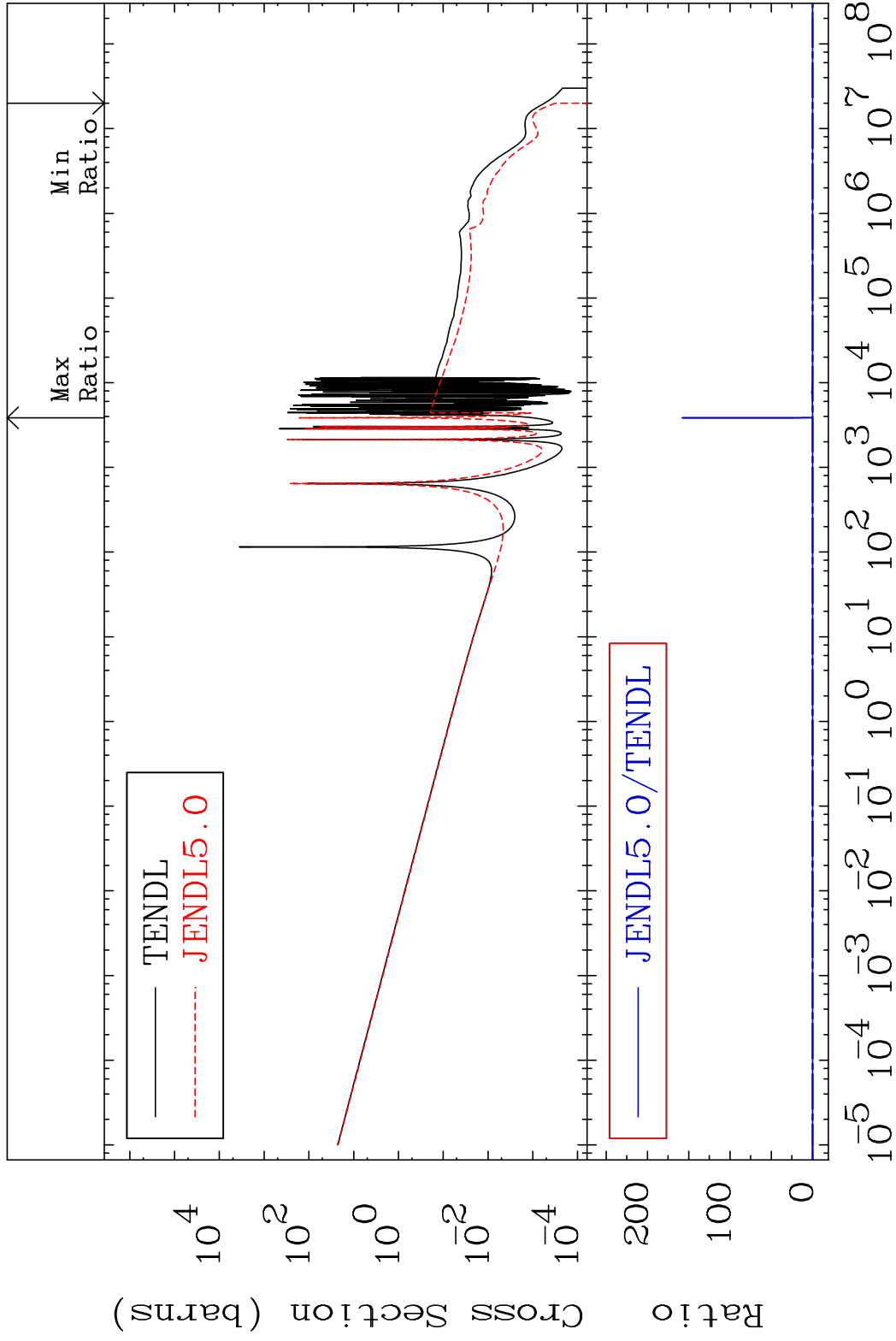


MAT 5449

(n,  $\gamma$ )

54-Xe-132

Cross Section -100.0 To 9999. %



28

Incident Energy (eV)

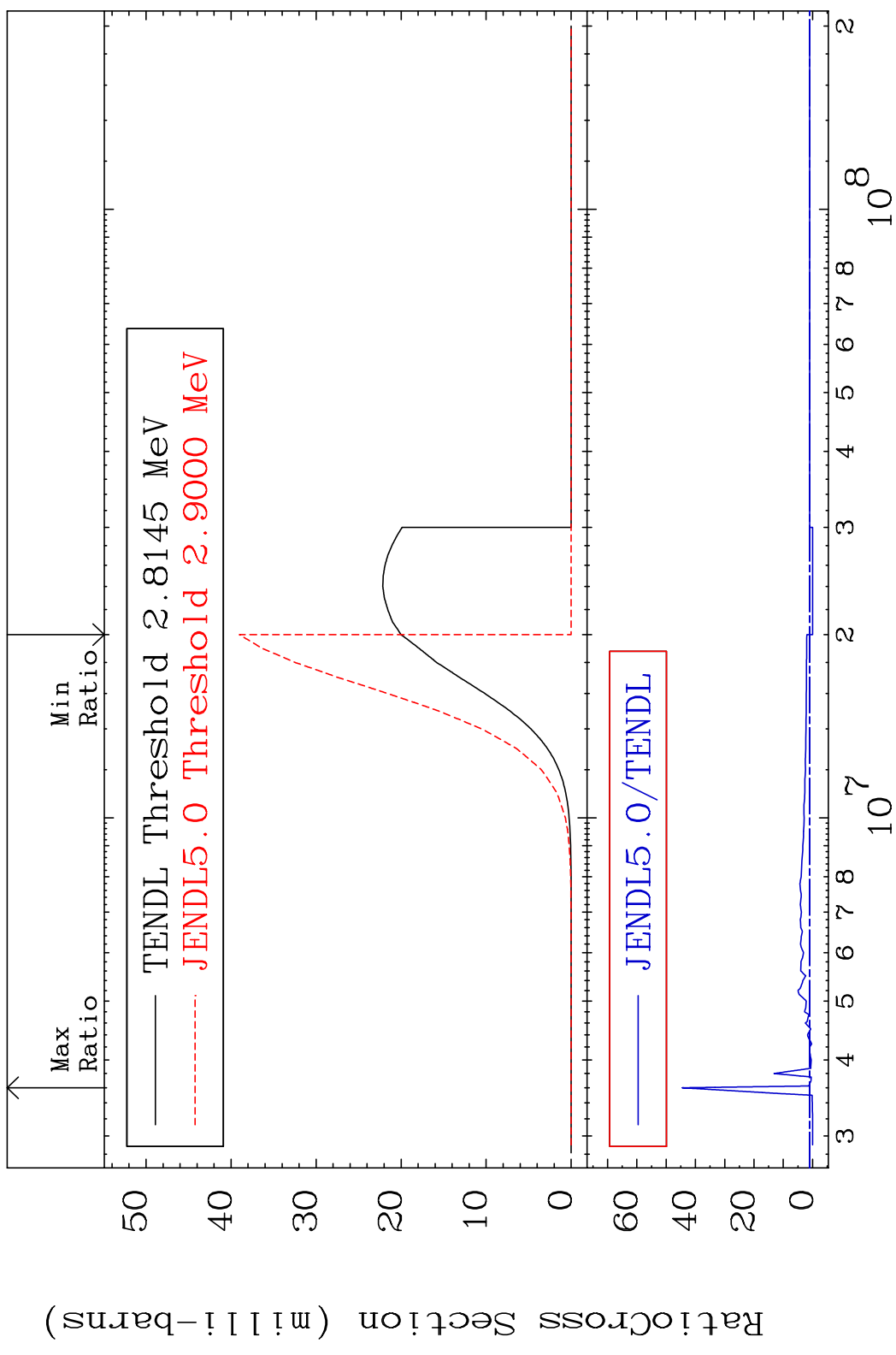
54-Xe-132

MAT 5449

(n,p)

54-Xe-132

Cross Section -100.0 To 4346. %

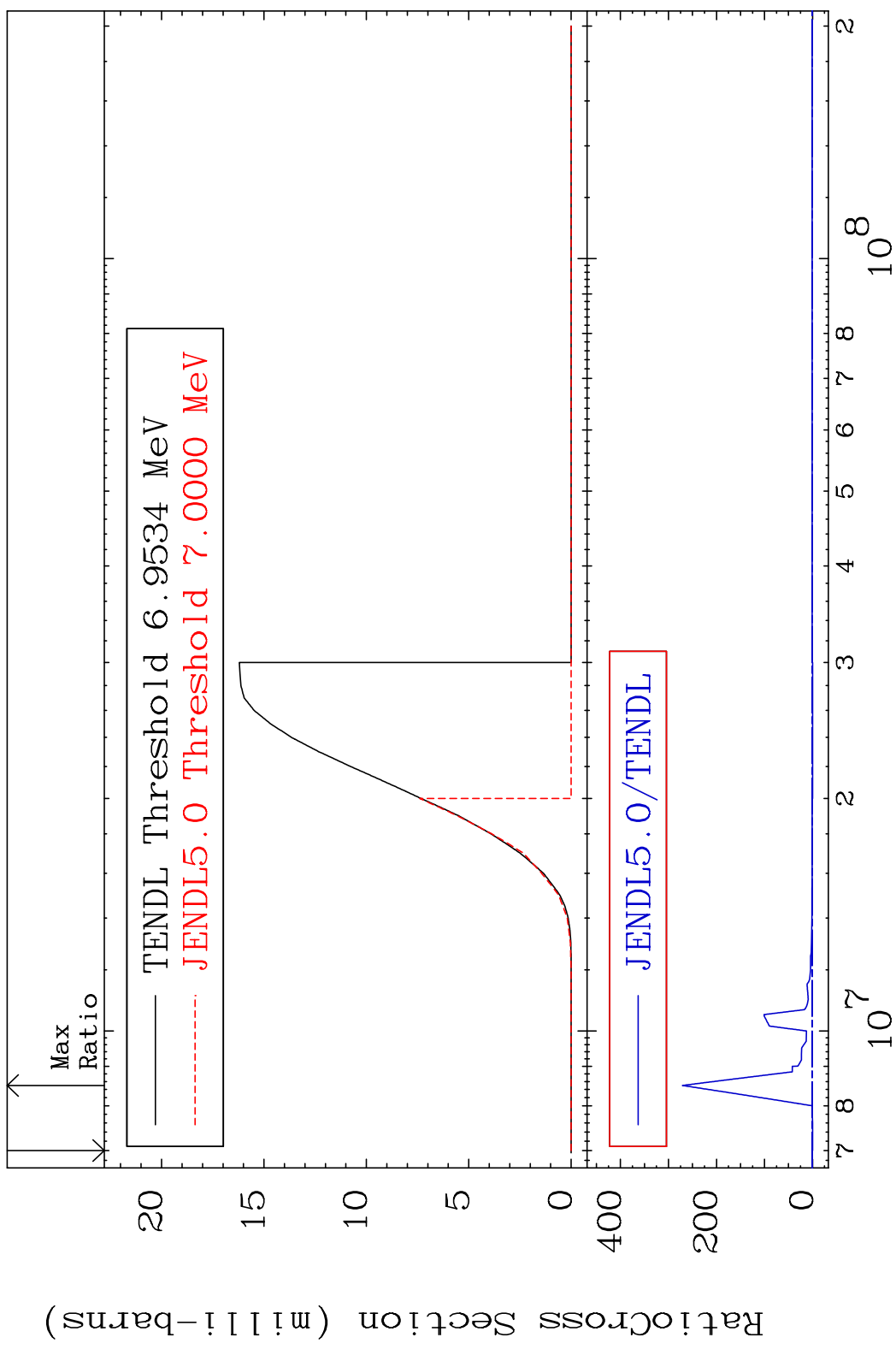


MAT 5449

(n,d)

54-Xe-132

Cross Section -100.0 To 9999. %



30

Incident Energy (eV)

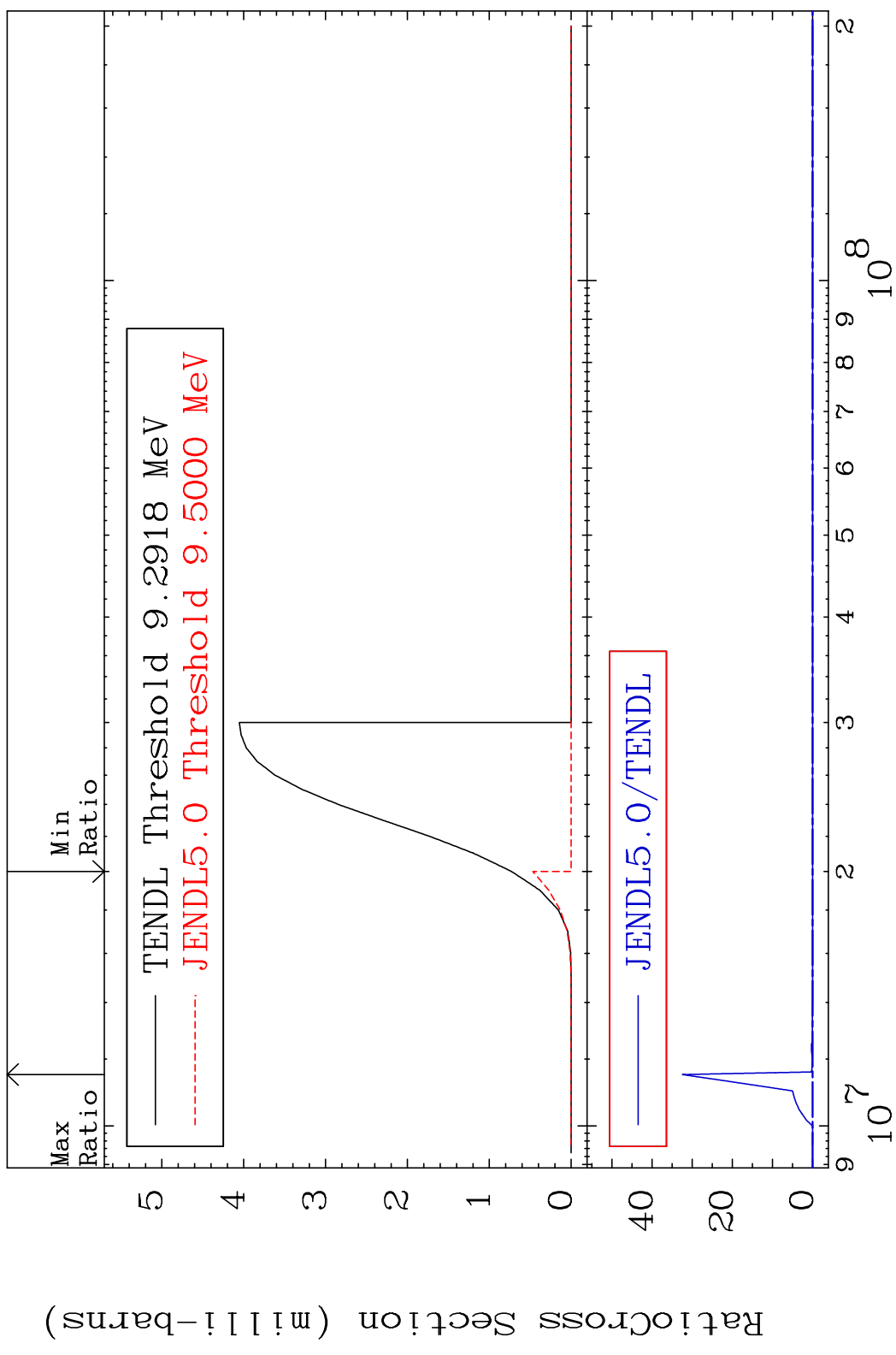
54-Xe-132

MAT 5449

(n, t)

54-Xe-132

Cross Section -100.0 To 9999. %



31

Incident Energy (eV)

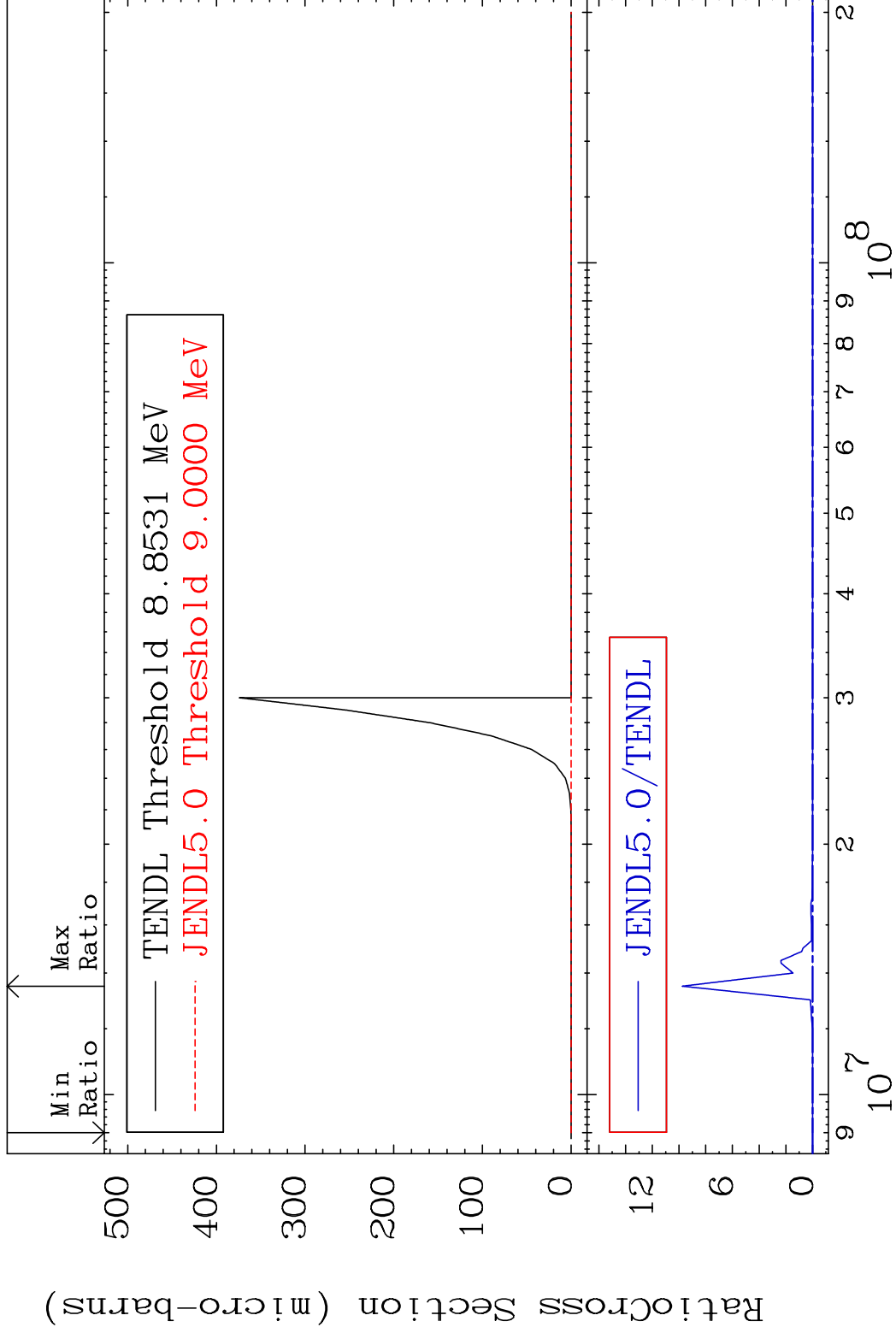
54-Xe-132

MAT 5449

(n, He-3)

54-Xe-132

Cross Section -100.0 To 9999. %



32

Incident Energy (eV)

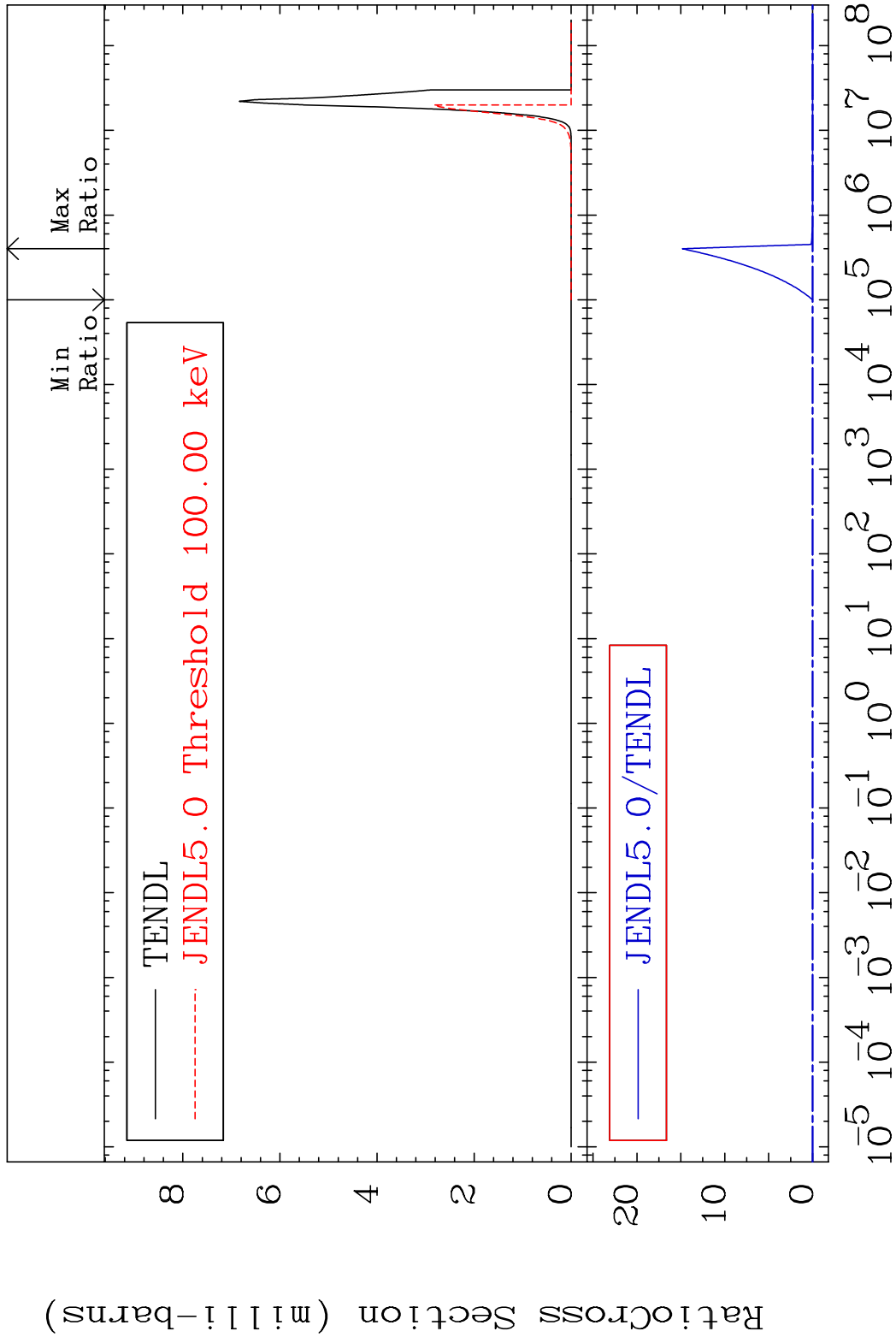
54-Xe-132

MAT 5449

(n,  $\alpha$ )

54-Xe-132

Cross Section -100.0 To 9999. %

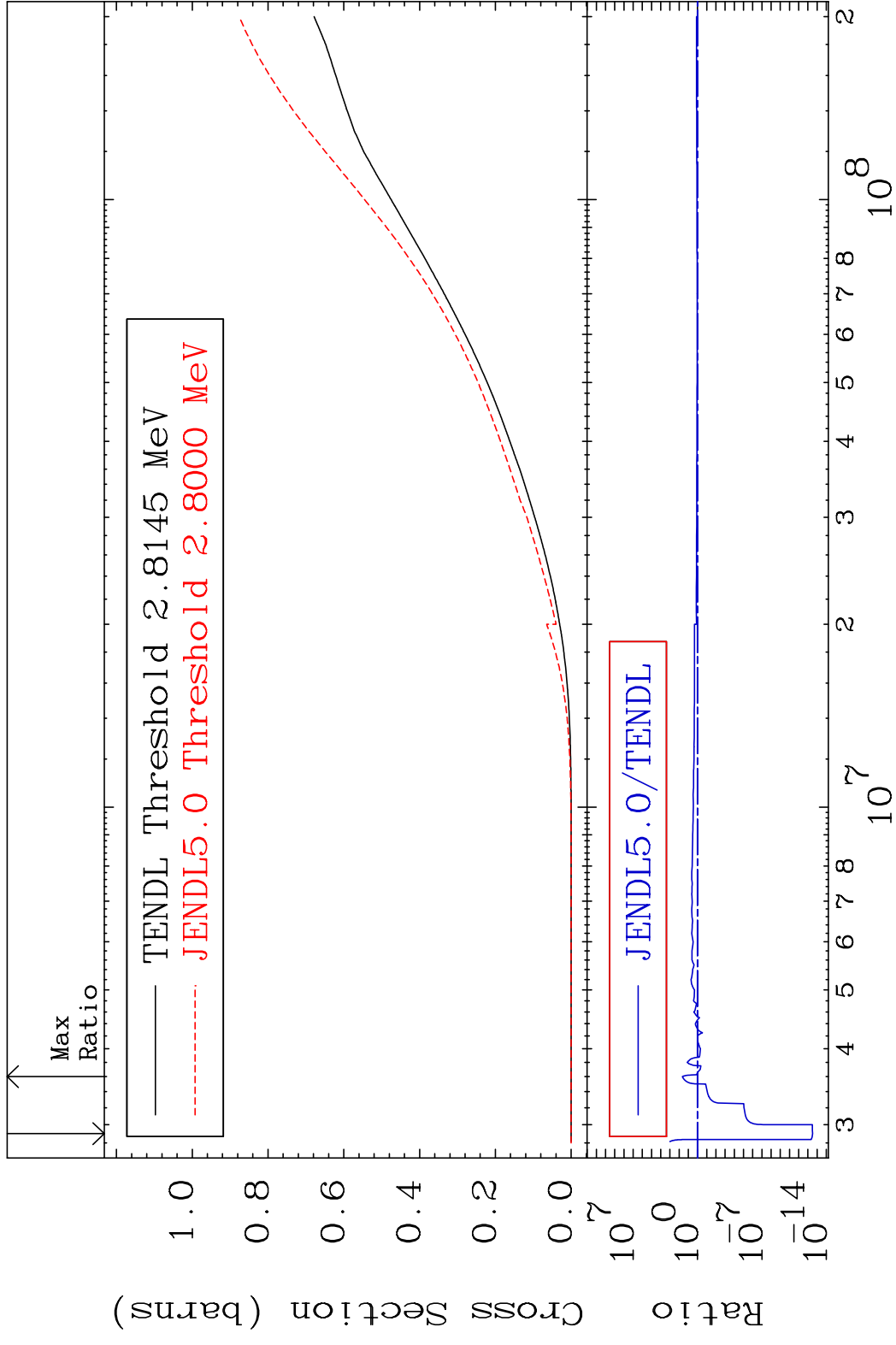


MAT 5449

Hydrogen Production

54-Xe-132

Cross Section -100.0 To 4346. %

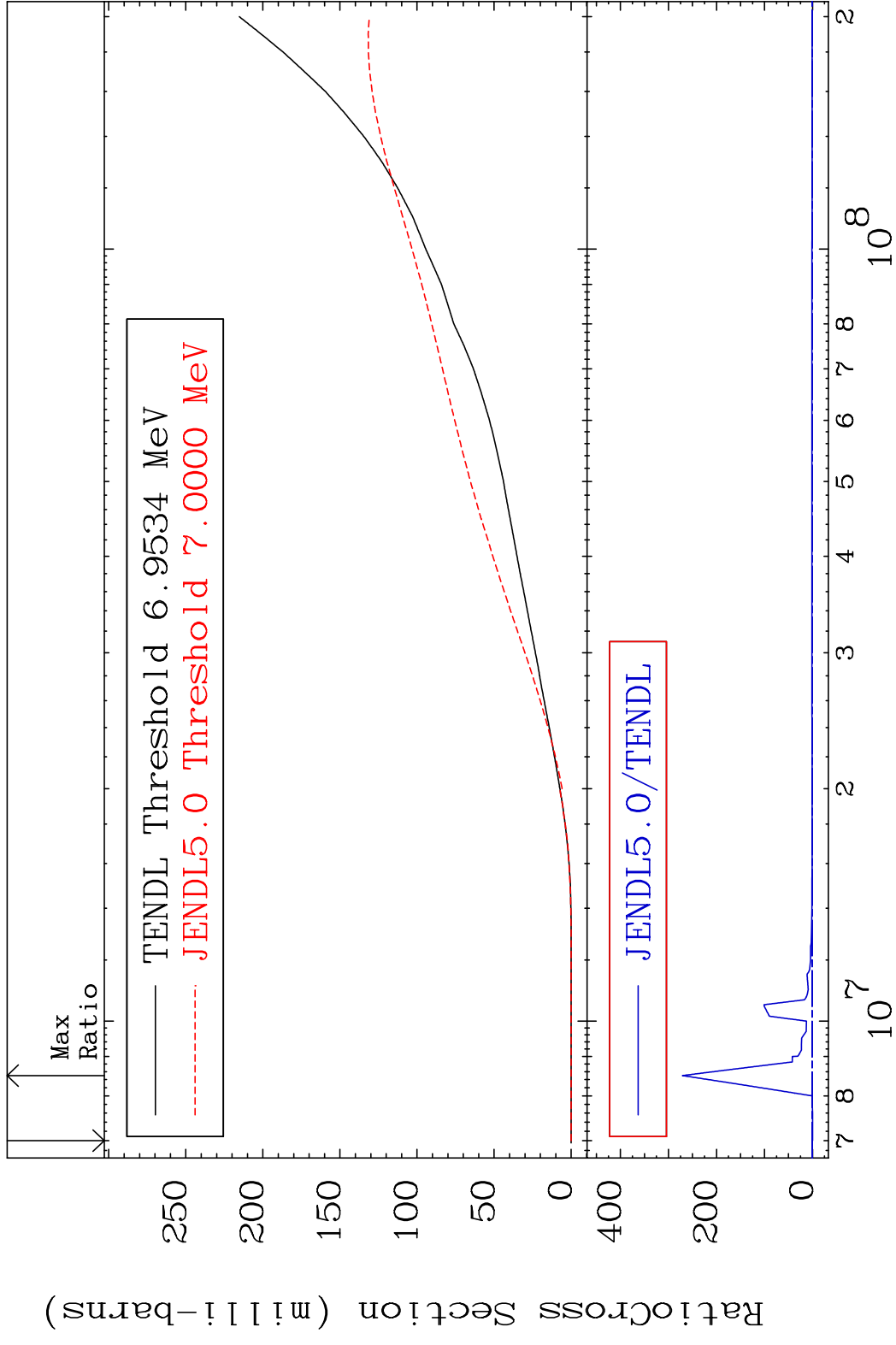


MAT 5449

Deuterium Production

54-Xe-132

Cross Section -100.0 To 9999. %

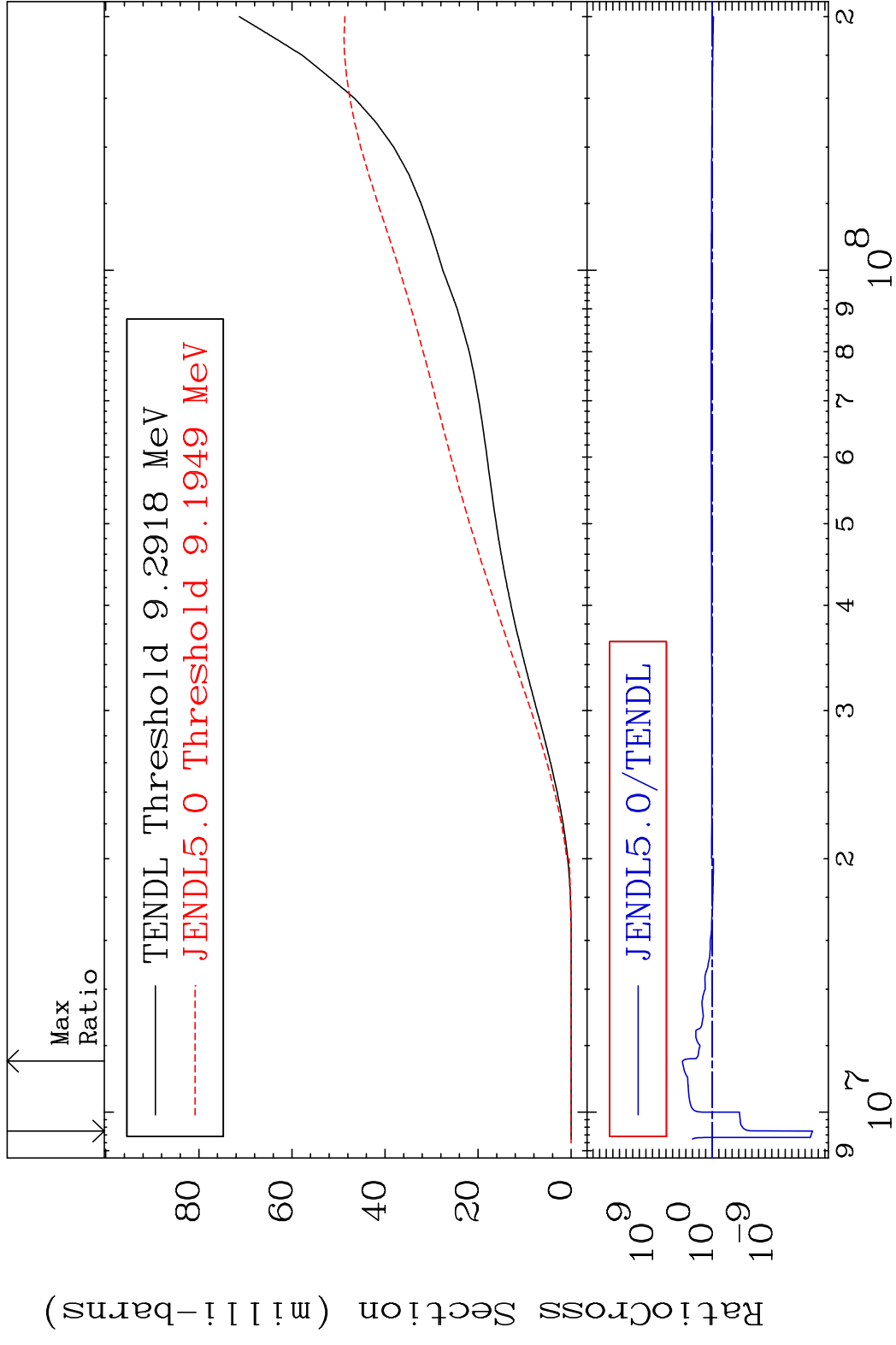


MAT 5449

Tritium Production

54-Xe-132

Cross Section -100.0 To 9999. %



36

Incident Energy (eV)

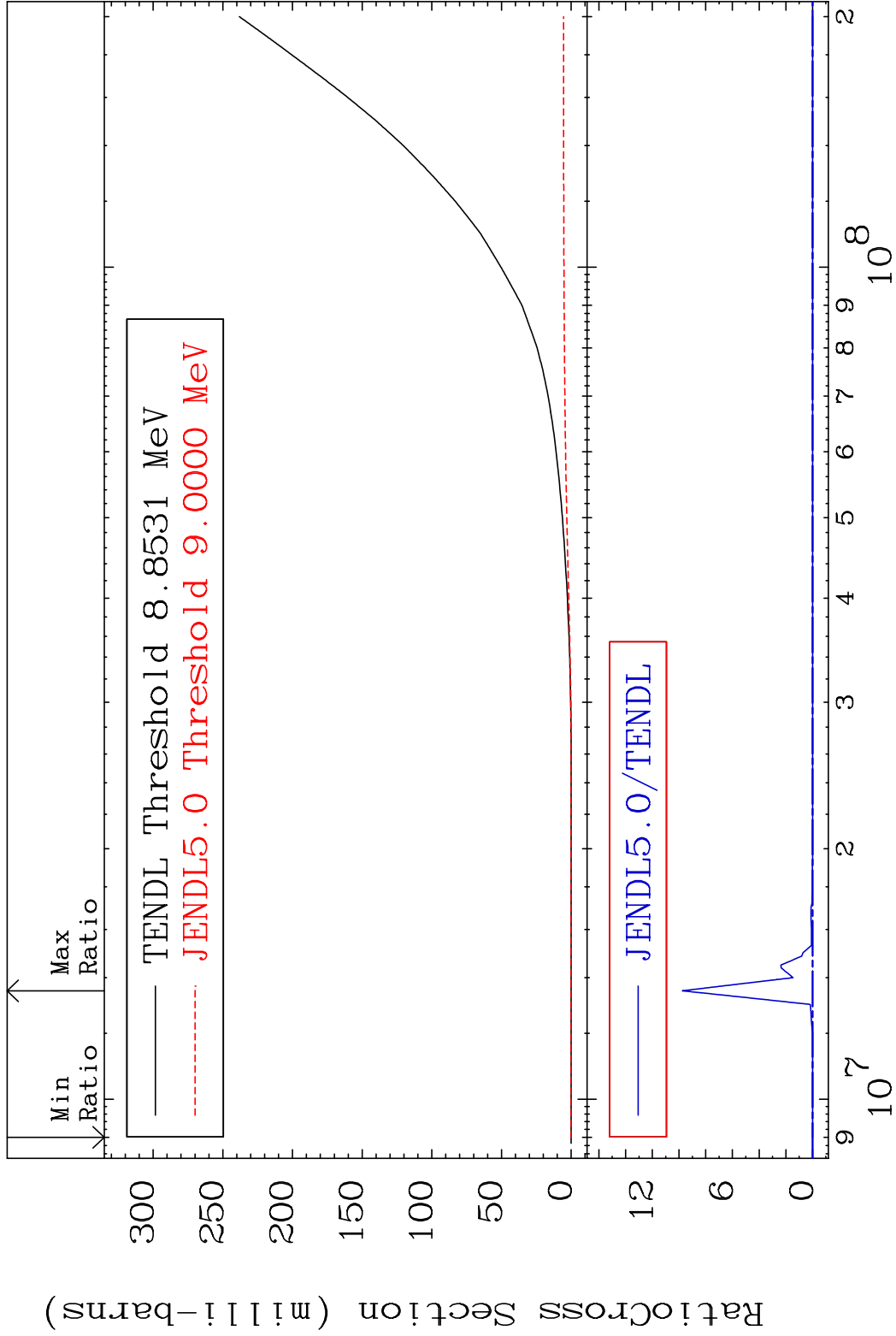
54-Xe-132

MAT 5449

He-3 Production

54-Xe-132

Cross Section -100.0 To 9999. %



37

Incident Energy (eV)

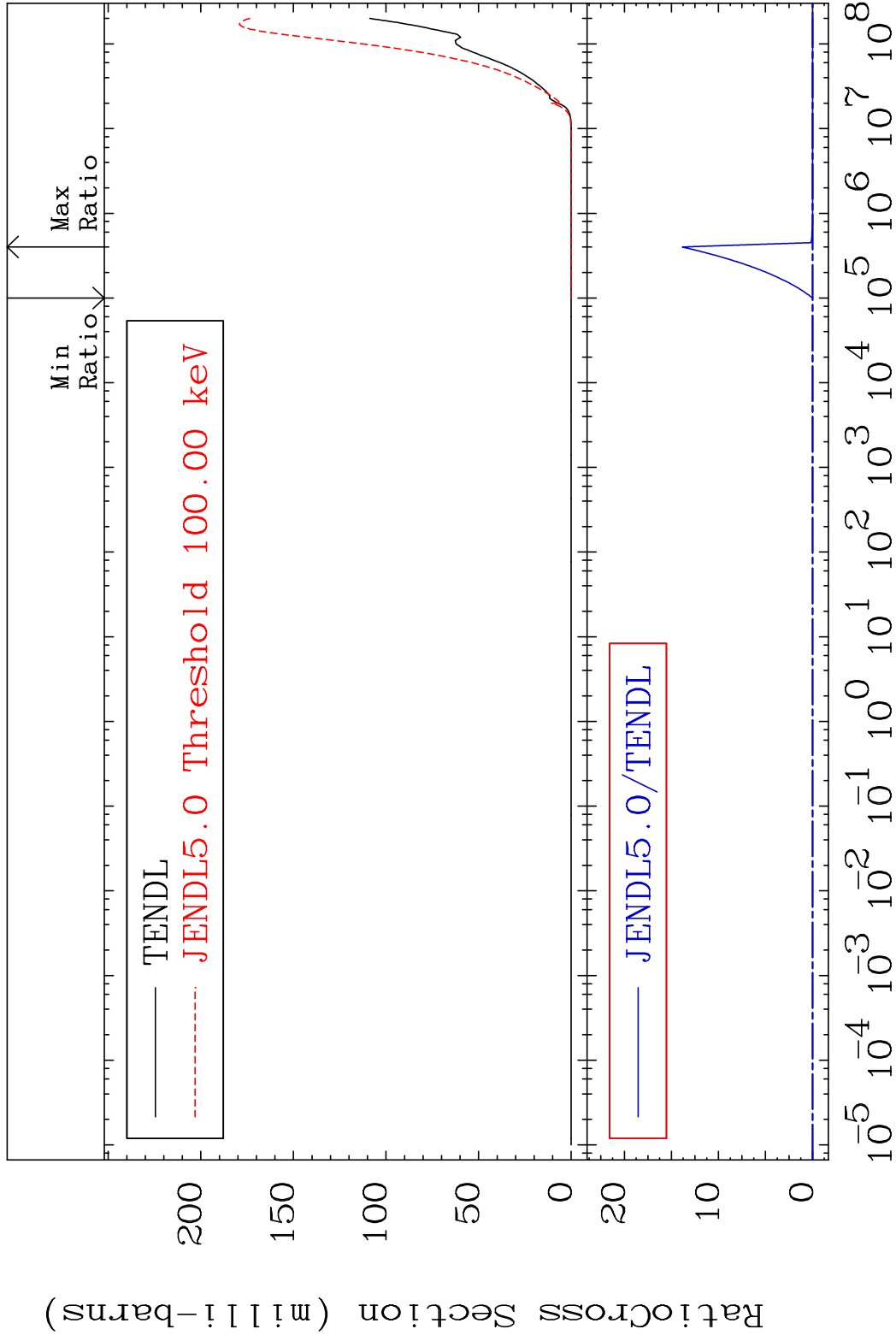
54-Xe-132

MAT 5449

He-4 Production

54-Xe-132

Cross Section -100.0 To 9999. %

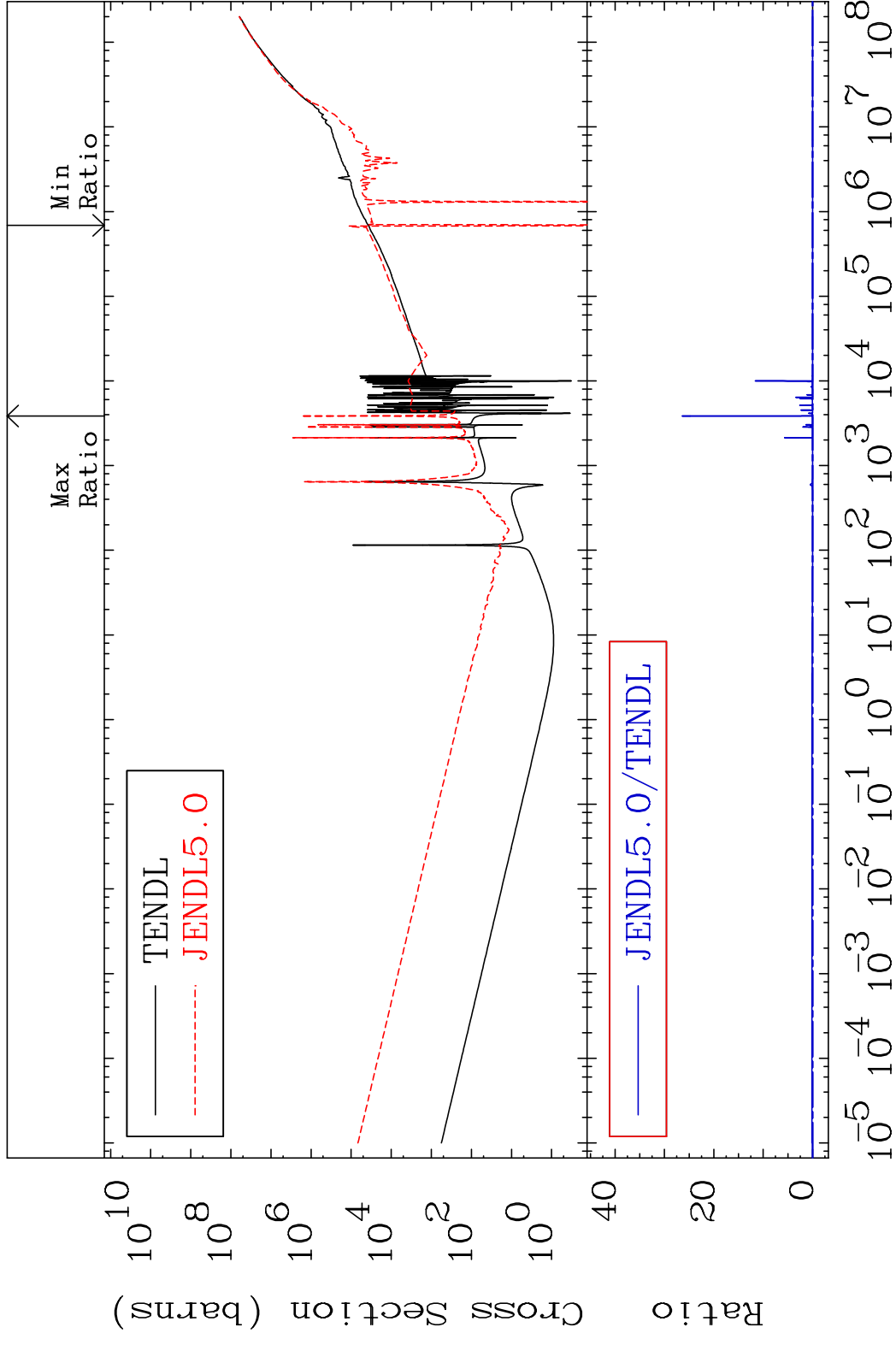


38

Incident Energy (eV)

54-Xe-132

MAT 5449 Kerma total (eV-barns) 54-Xe-132  
 Cross Section -264.8 To 9999. %



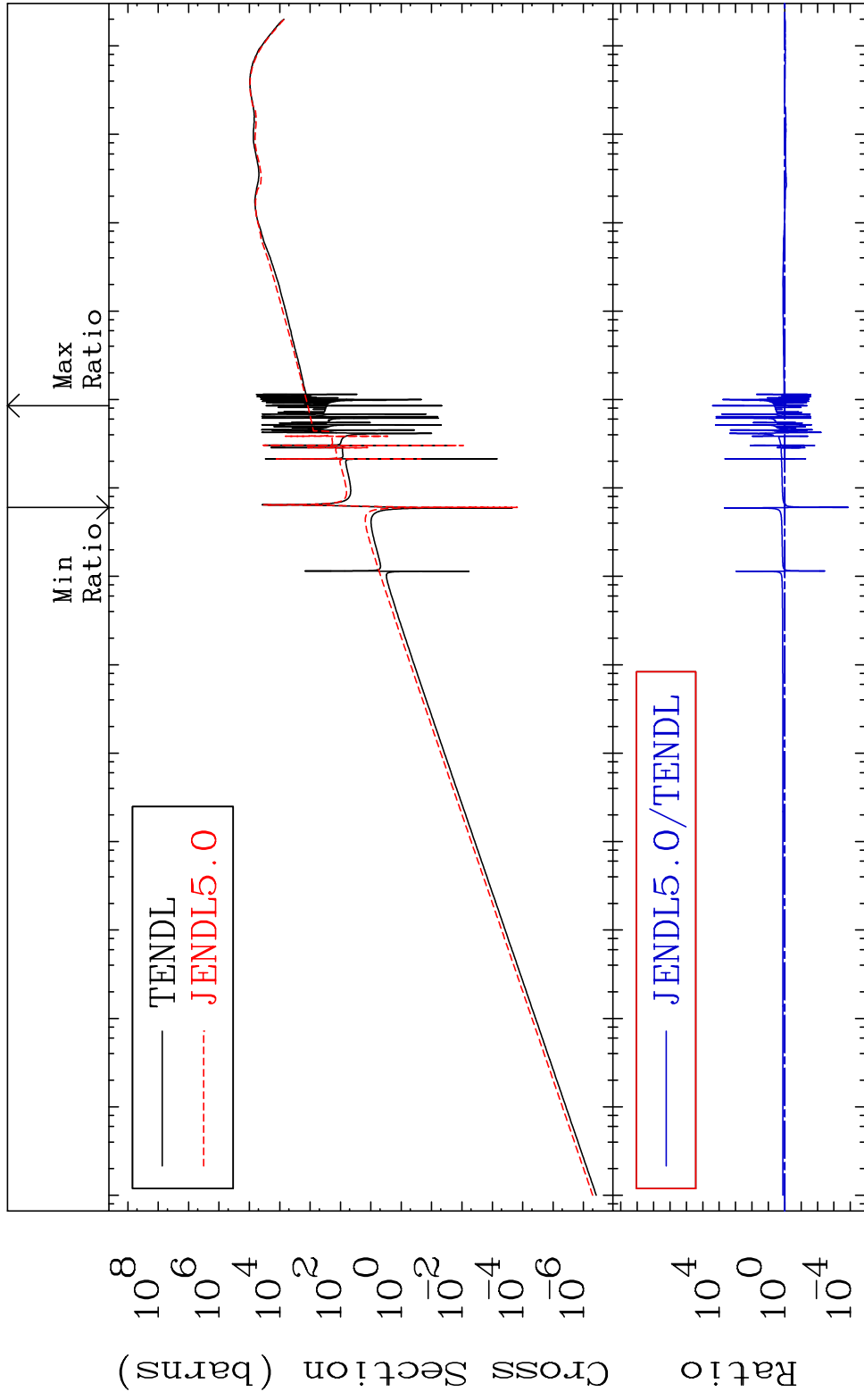
39 Incident Energy (eV) 54-Xe-132

MAT 5449

Kerma elastic  
Cross Section

54-Xe-132

-99.99 To 9999. %

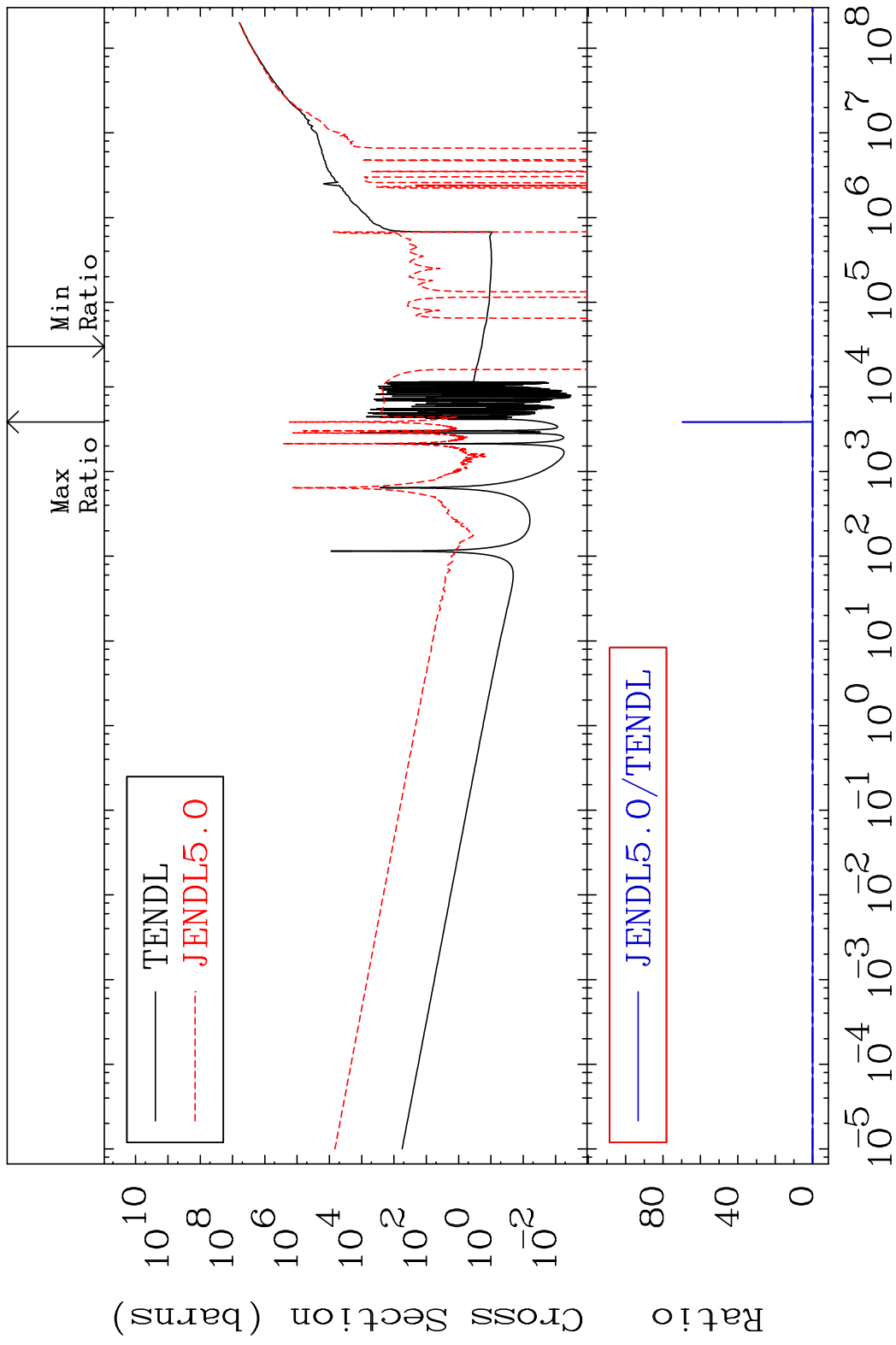


40

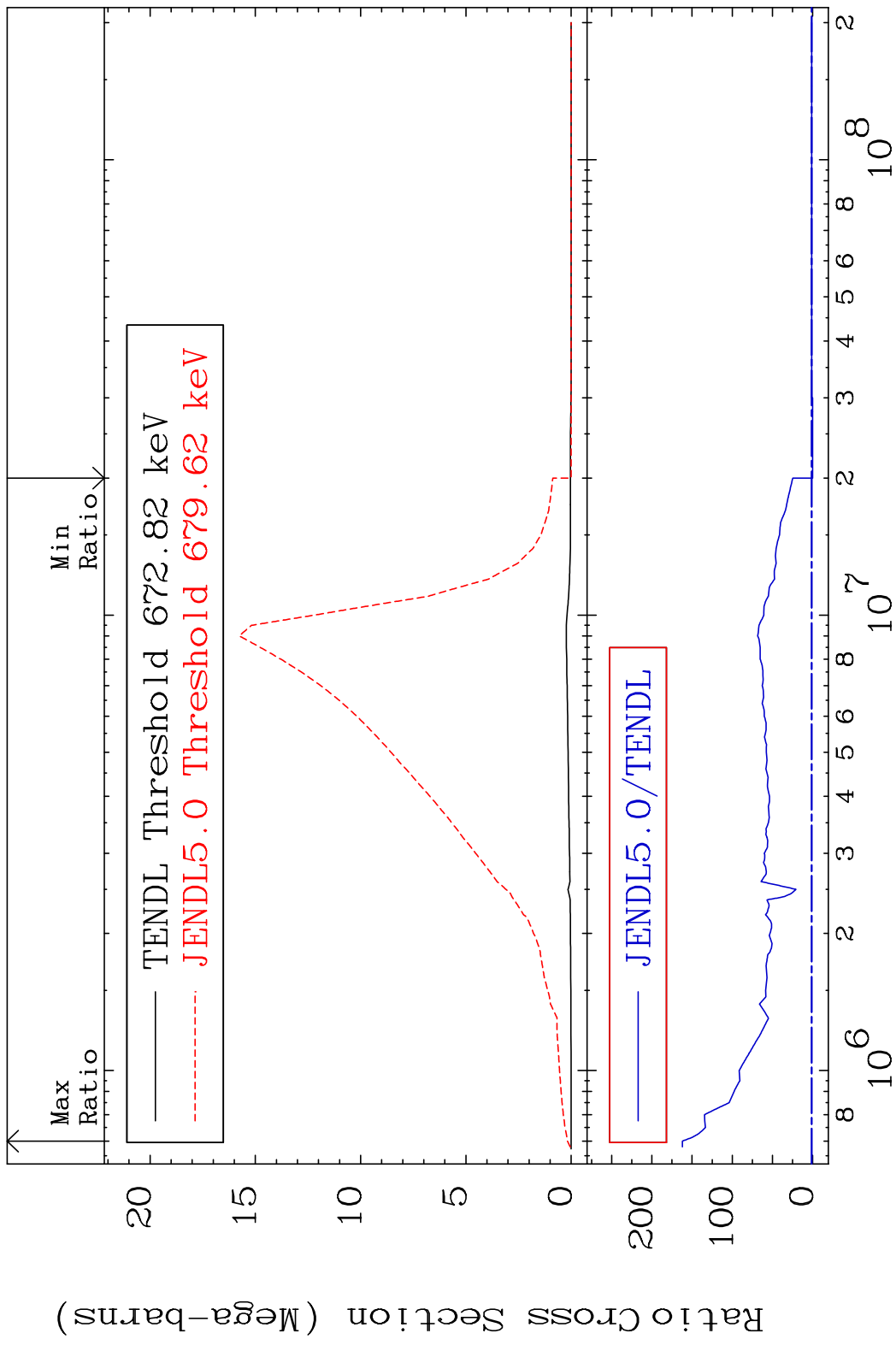
Incident Energy (eV)

54-Xe-132

MAT 5449 Kerma non-elastic (all but mt2) 54-Xe-132  
 Cross Section -9999. To 9999. %

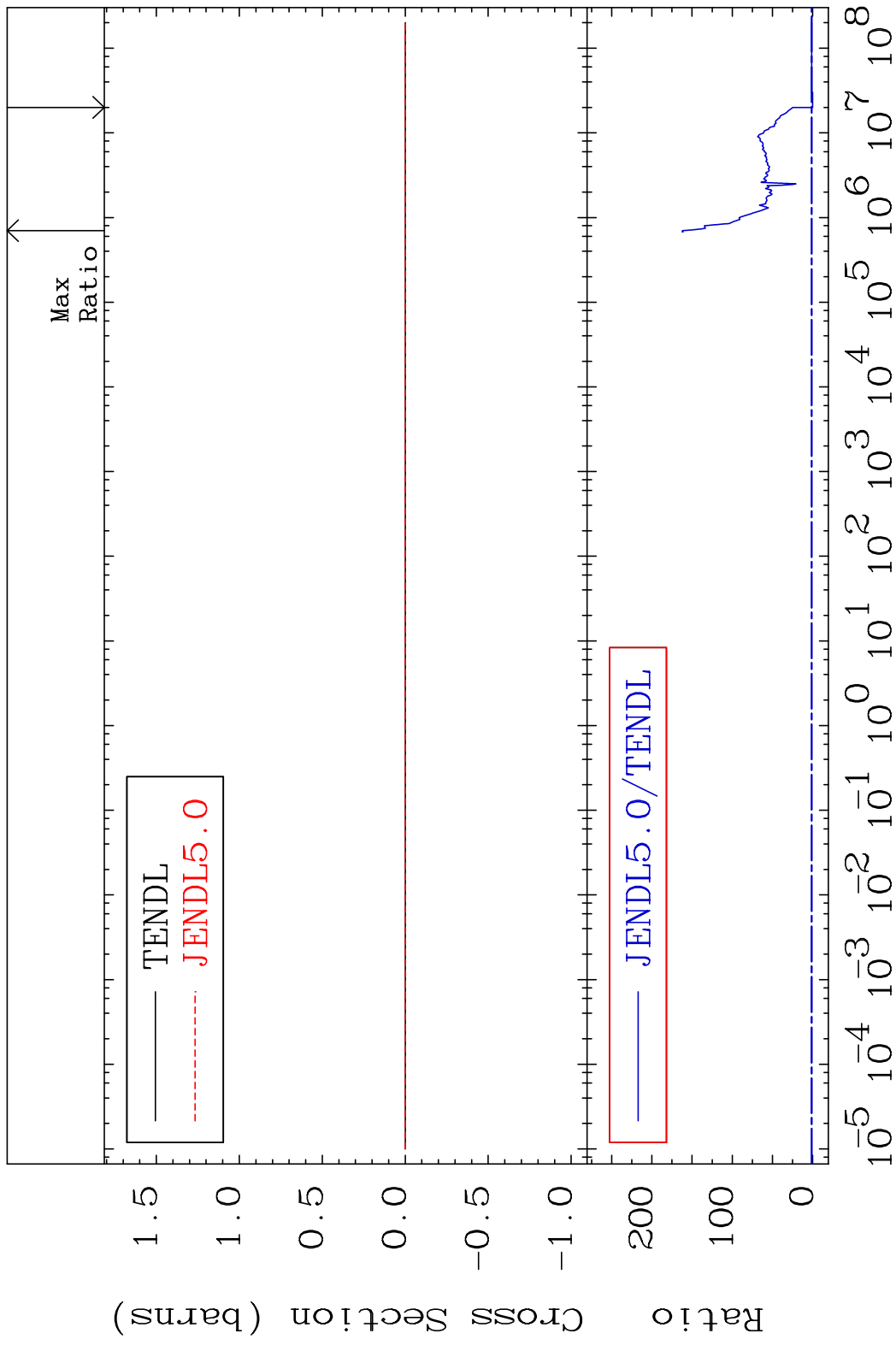


MAT 5449 Kerma inelastic (mt51-91) 54-Xe-132  
 Cross Section -100.0 To 9999. %



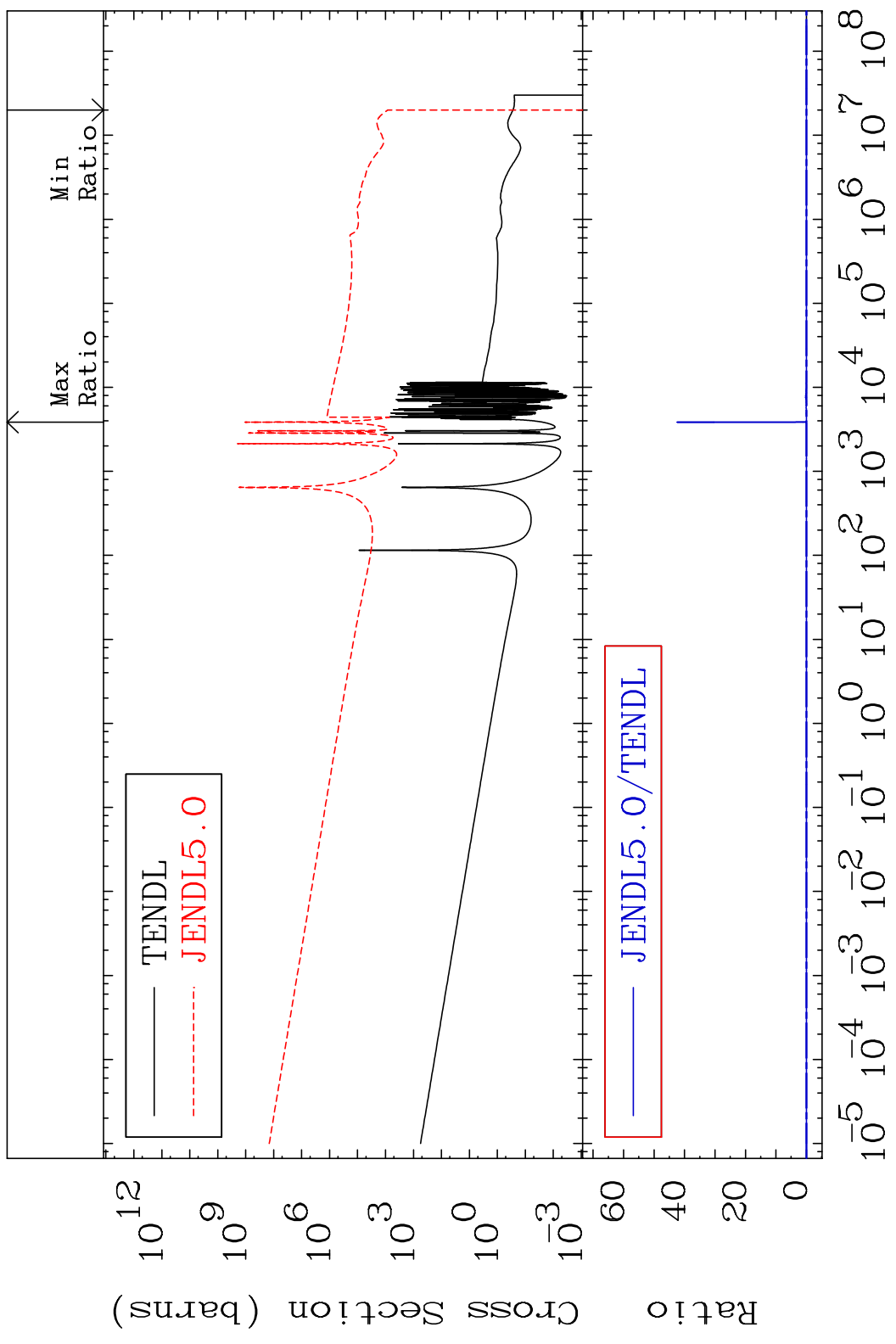
42 Incident Energy (eV) 54-Xe-132

MAT 5449 Kerma fission (mt18 or mt19-20-21-38) 54-Xe-132  
 Cross Section -100.0 To 9999. %



MAT 5449

Kerma capture (mt102) 54-Xe-132  
Cross Section -100.0 To 9999. %

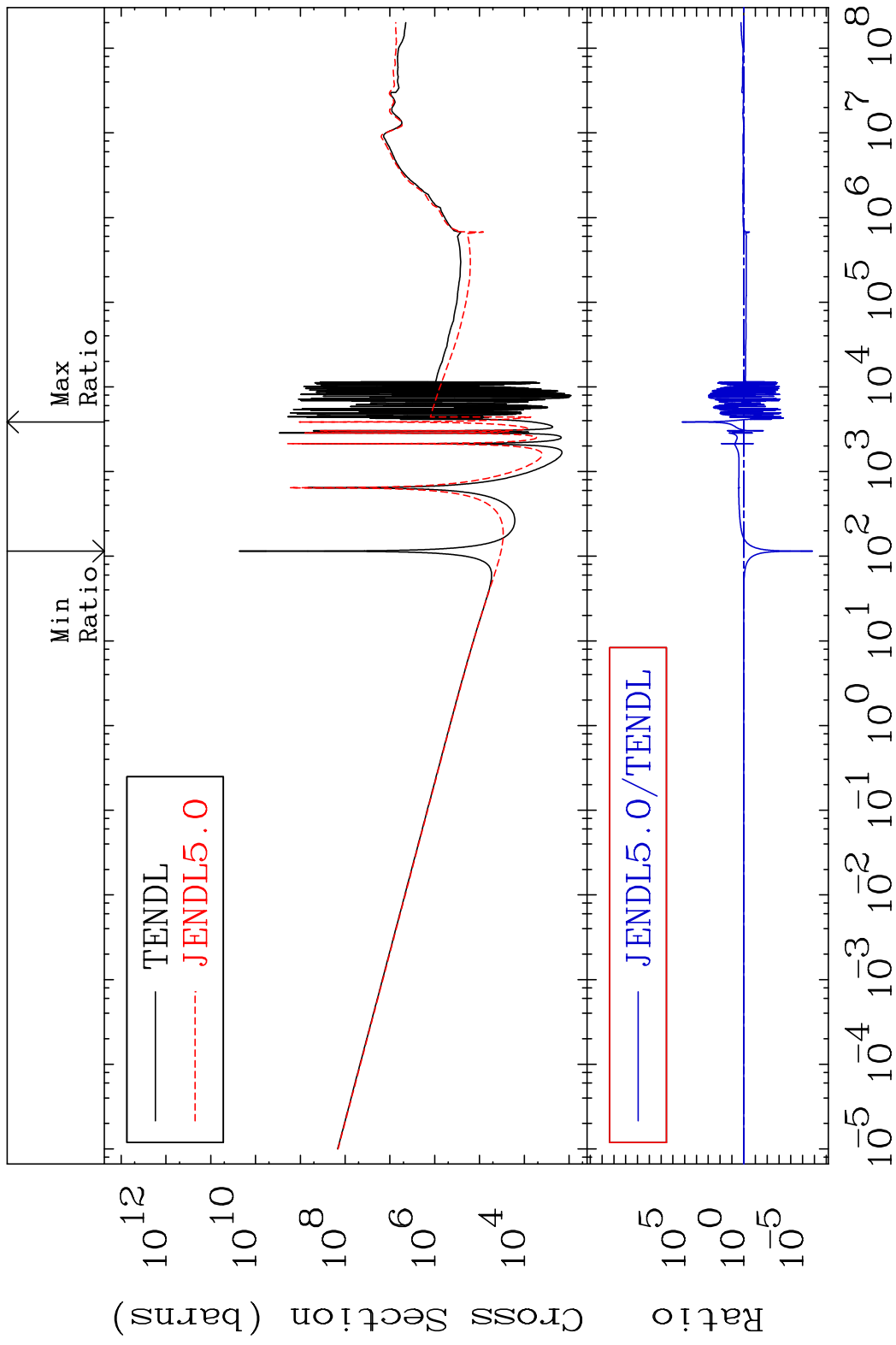


44

Incident Energy (eV)

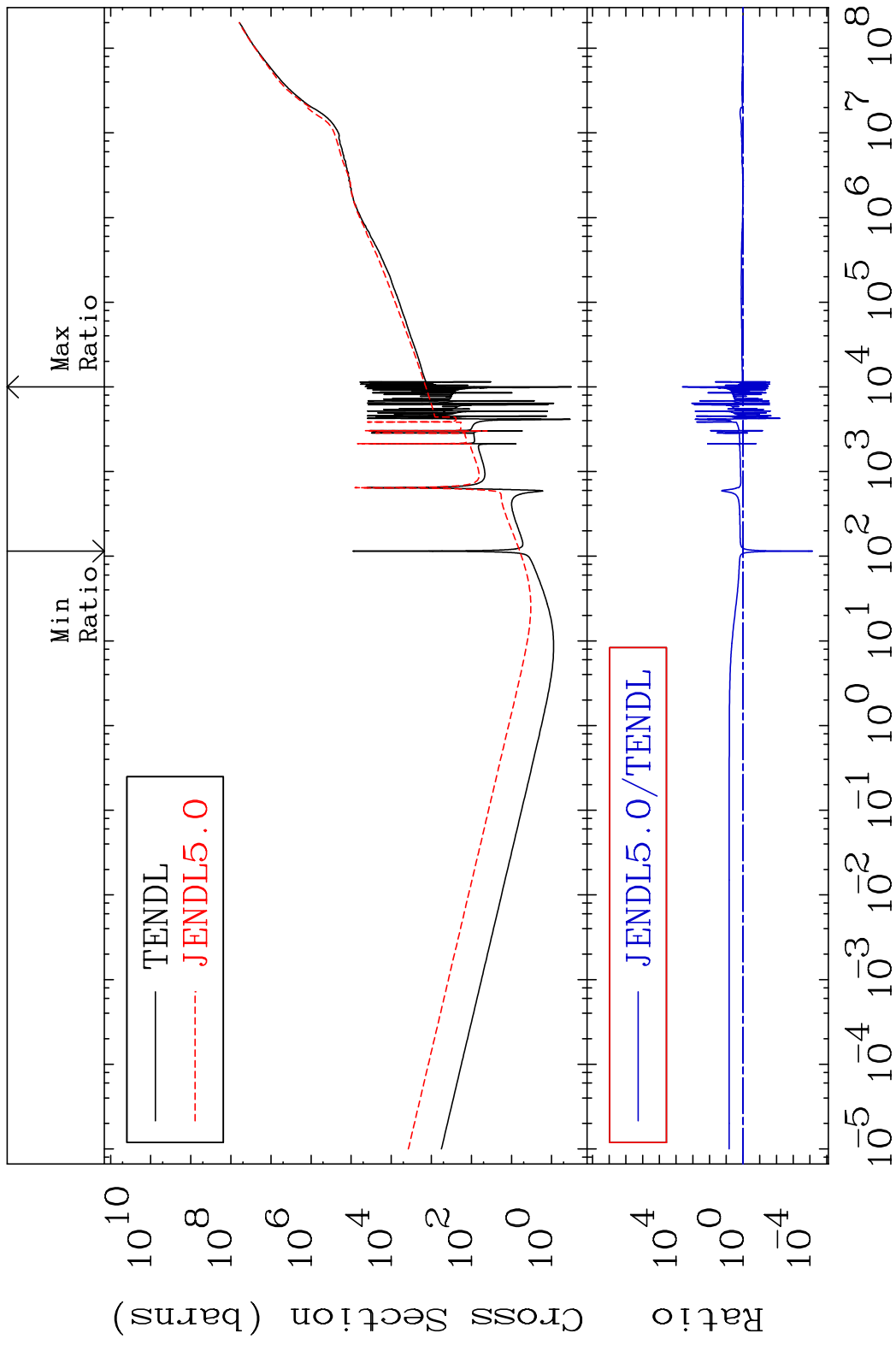
54-Xe-132

MAT 5449 Total photon (eV-barns) 54-Xe-132  
Cross Section -100.0 To 9999. %

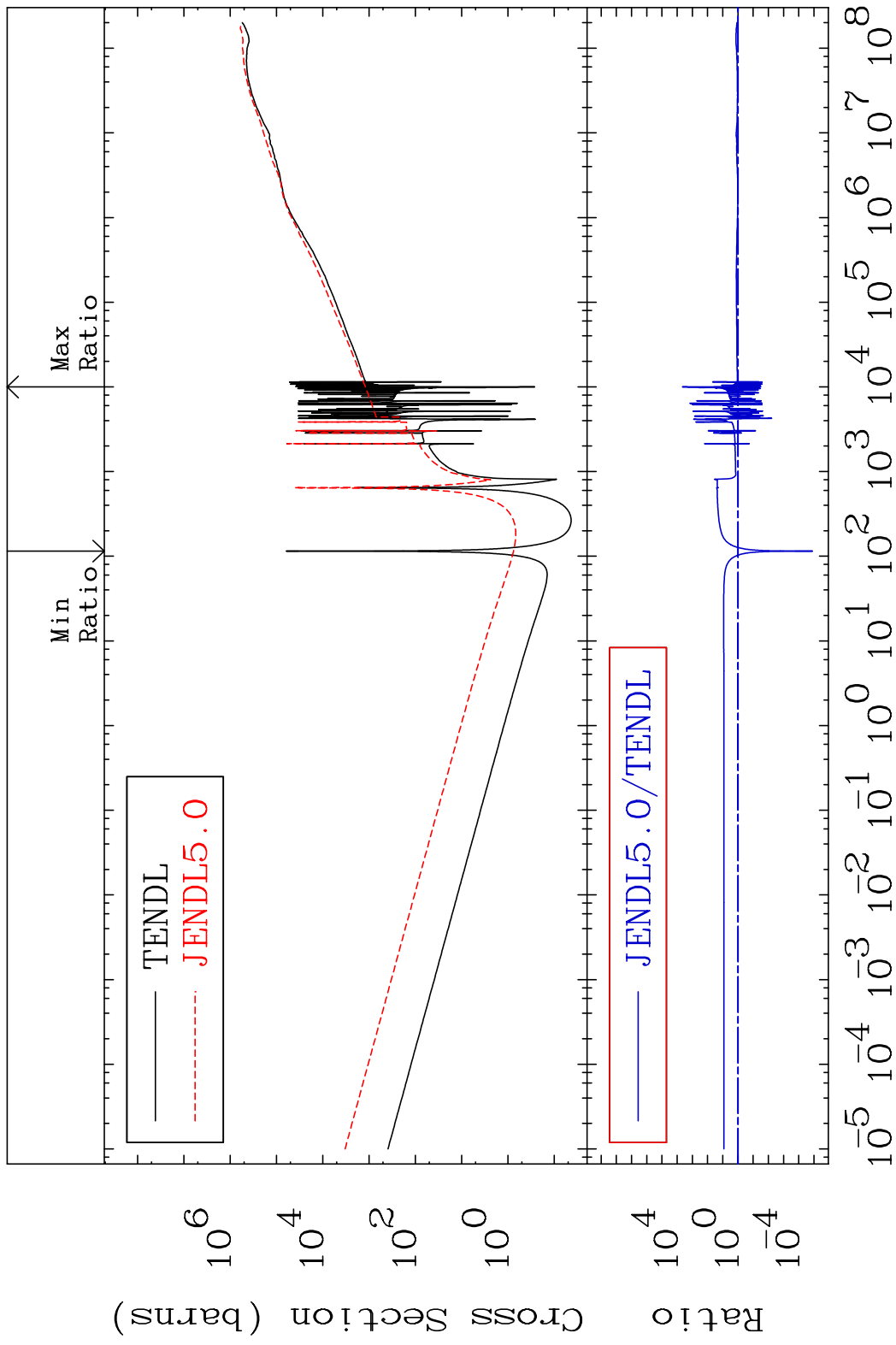


45 Incident Energy (eV) 54-Xe-132

MAT 5449 Total kinematic kerma (high limit) 54-Xe-132  
 Cross Section -99.99 To 9999. %



MAT 5449 Dpa total (eV-barns) 54-Xe-132  
 Cross Section -100.0 To 9999. %



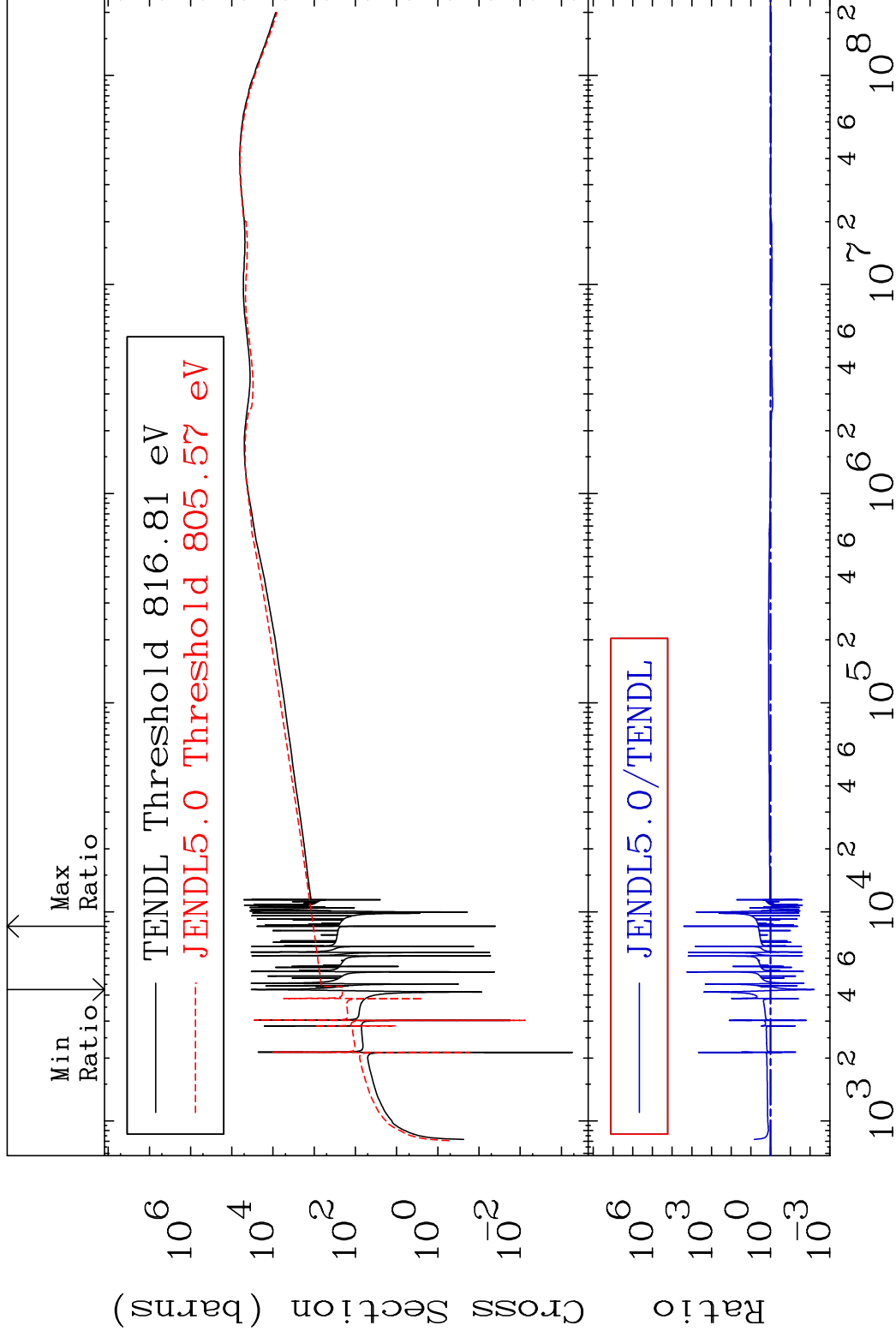
47 Incident Energy (eV) 54-Xe-132

MAT 5449

Dpa elastic (mt2)

54-Xe-132

Cross Section -99.38 To 9999. %

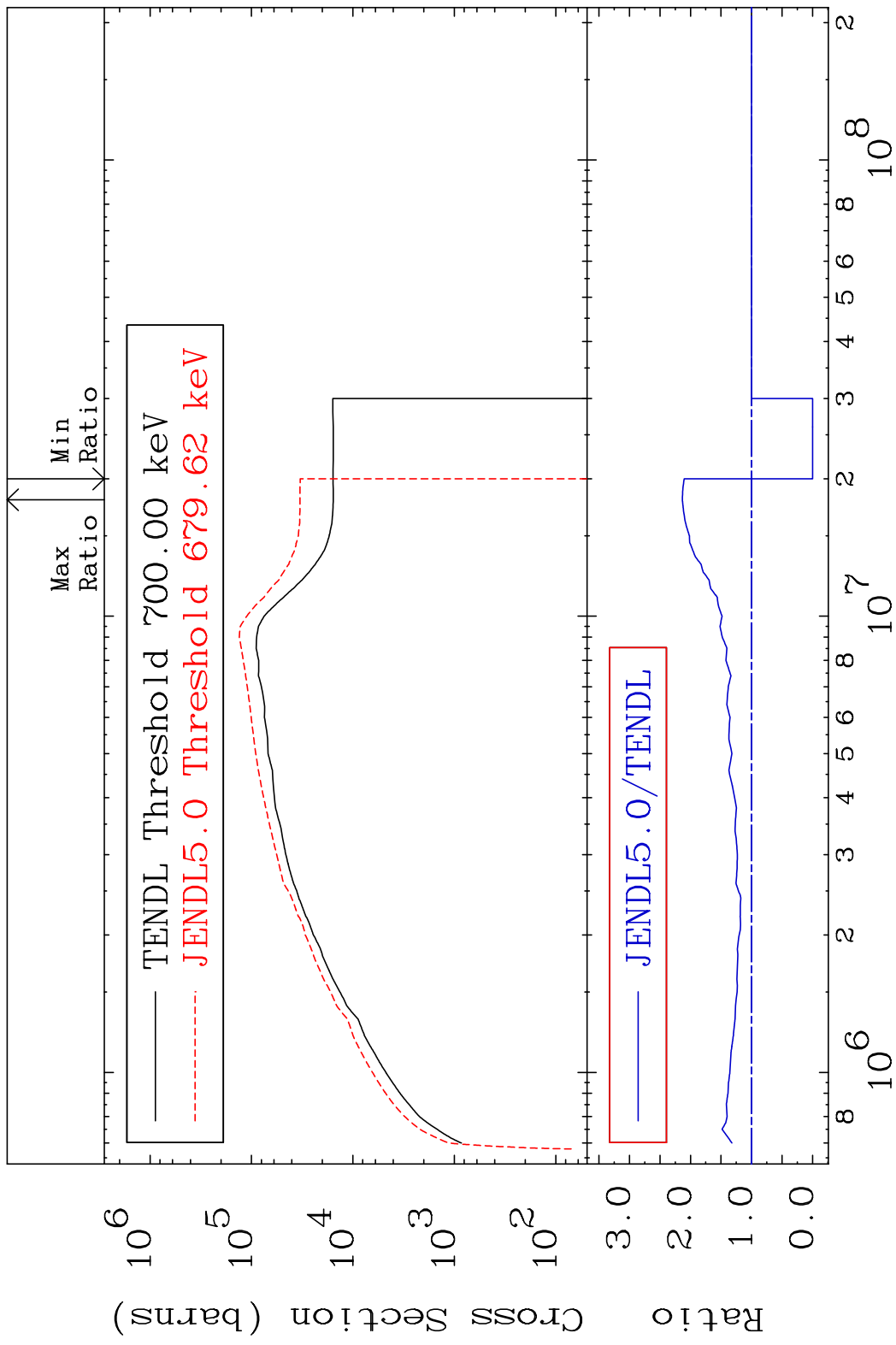


48

Incident Energy (eV)

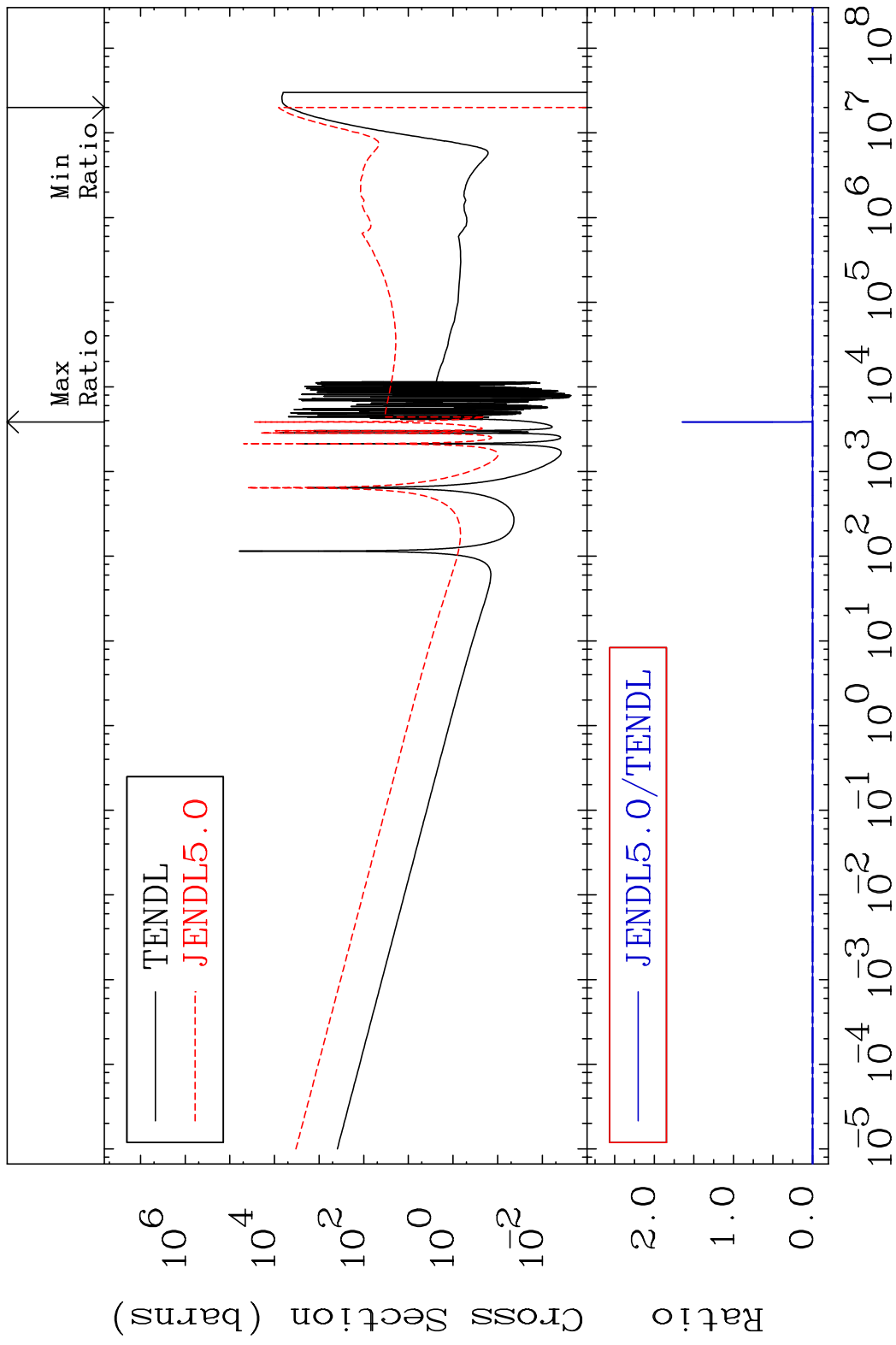
54-Xe-132

MAT 5449 Dpa inelastic (mt51-91) 54-Xe-132  
 Cross Section -100.0 To 113.3 %



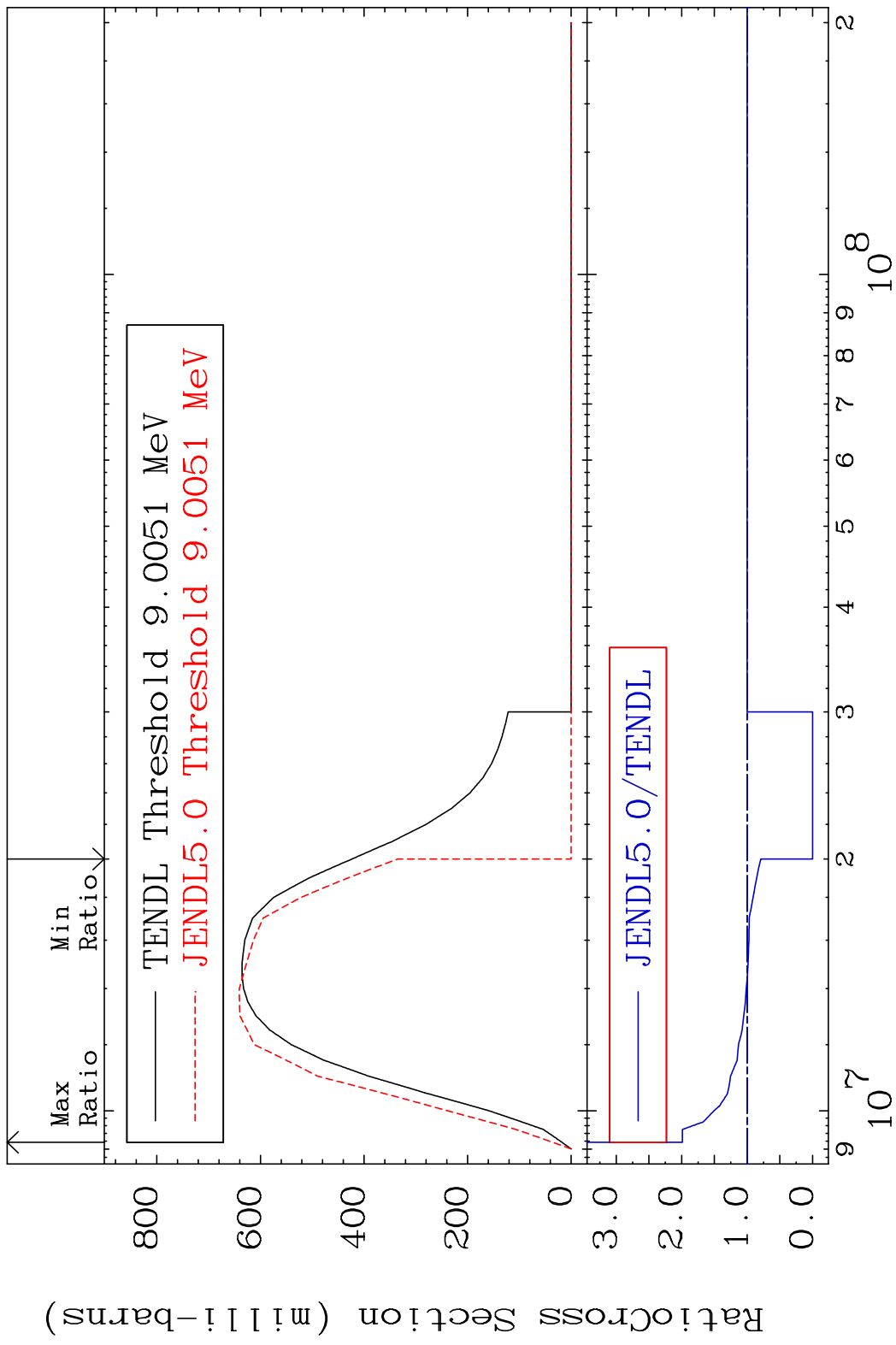
49 Incident Energy (eV) 54-Xe-132

MAT 5449 Dpa disappearance (mt102 -120) 54-Xe-132  
 Cross Section -100.0 To 9999. %

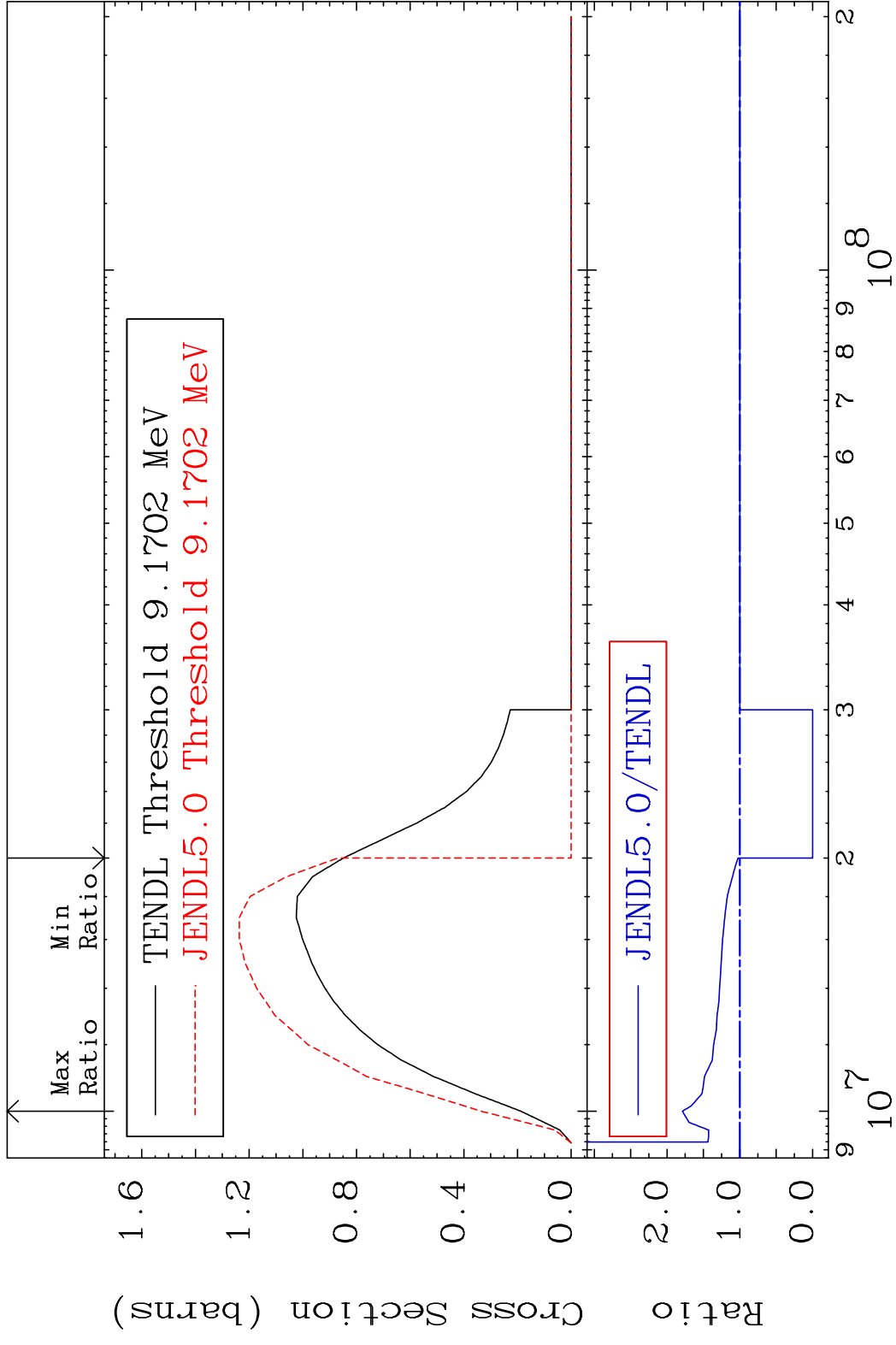


50 Incident Energy (eV) 54-Xe-132

MAT 5449 (n,2n):54-Xe-131g 54-Xe-132  
 Radionuclide Production Cross Section 100.00 dth 98.94 %



MAT 5449 (n,2n):54-Xe-131m2 54-Xe-132  
 Radionuclide Production Cross Section 180.01 dth 78.93 %



MAT 5449 (n,p):53-I -132g 54-Xe-132  
 Radionuclide Production Cross Section 1800.0 dth 4344. %

