

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

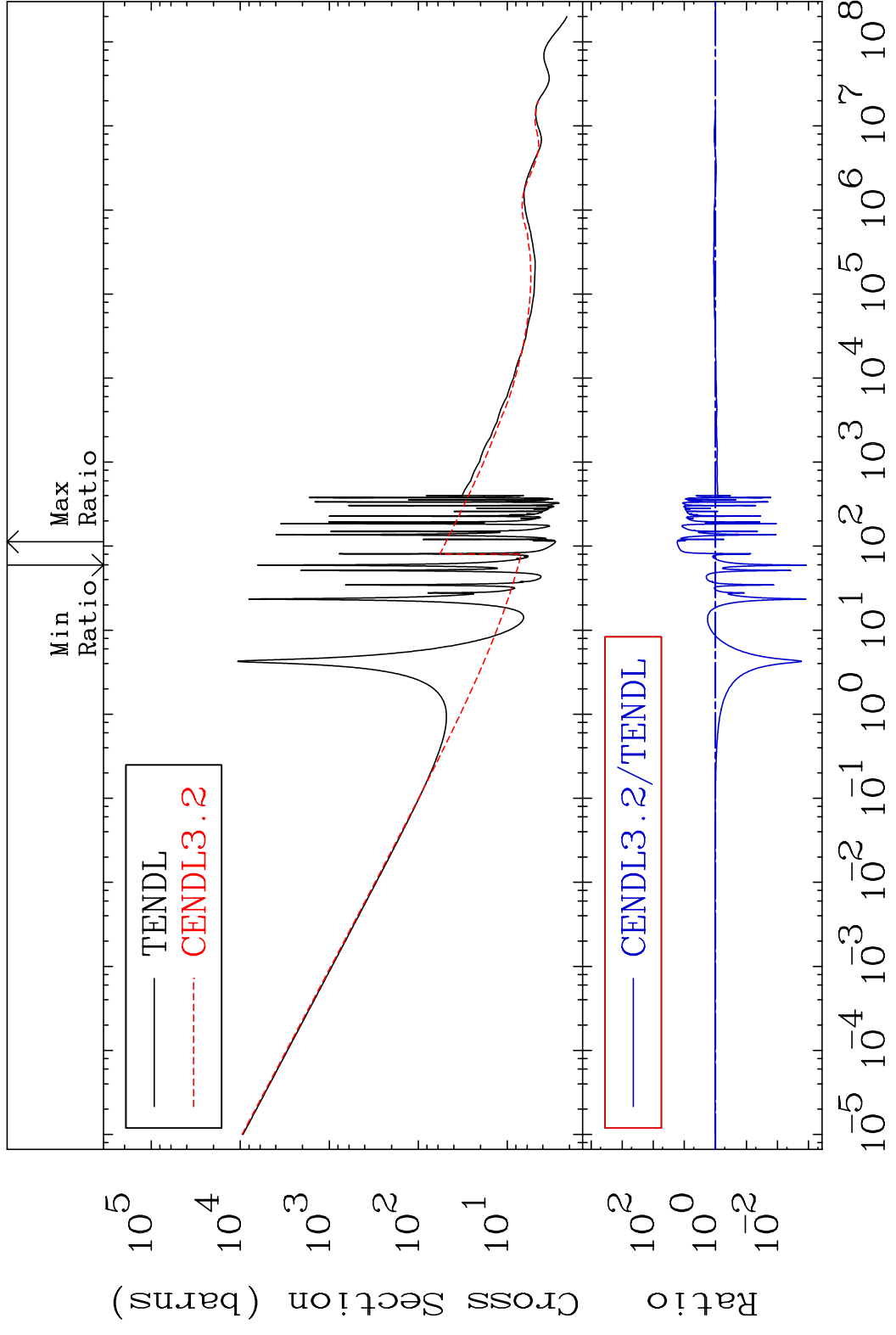
Press Mouse Button to Start

MAT 5452

Total

54-Xe-133

Cross Section -99.88 To 1598. %



1

Incident Energy (eV)

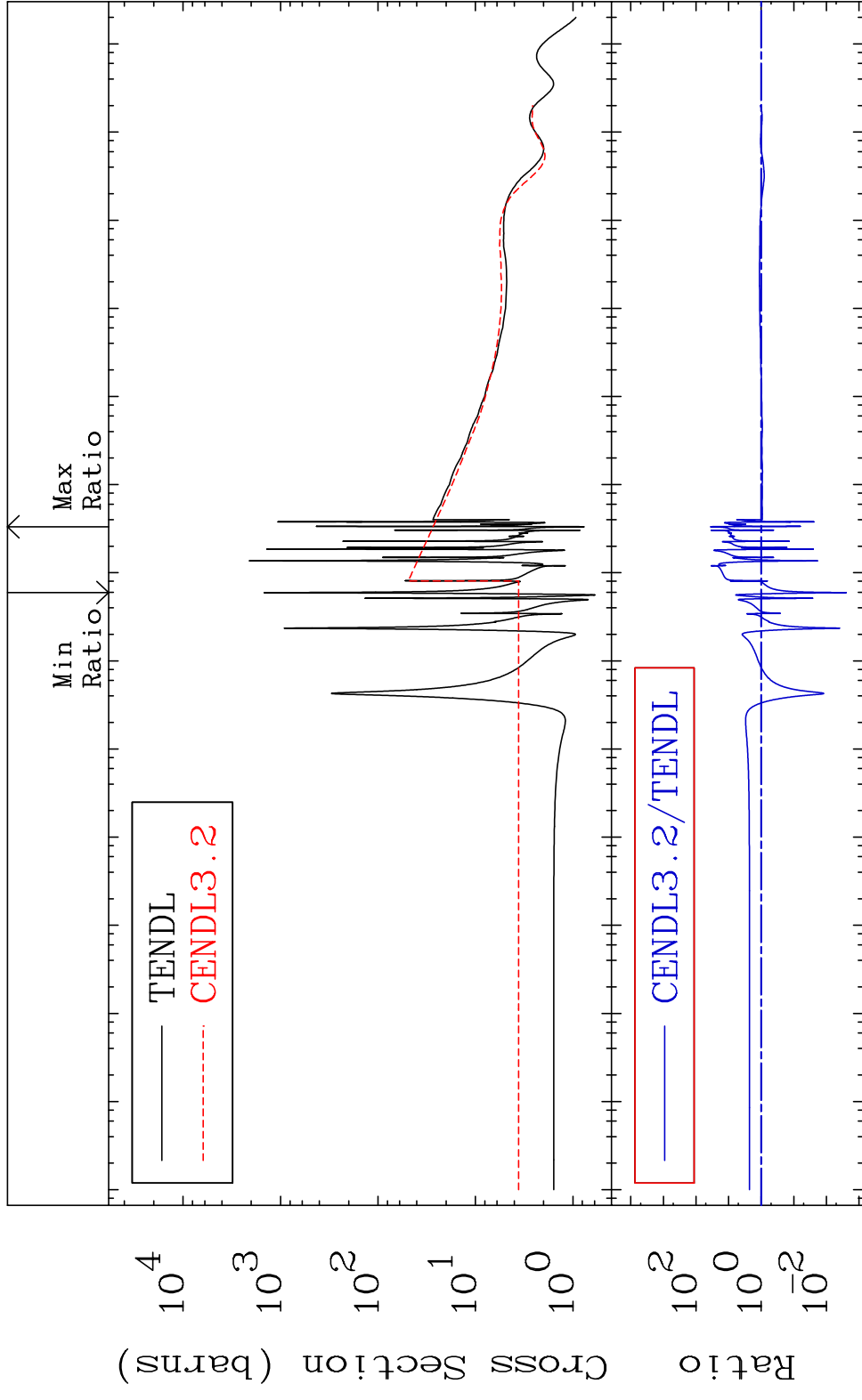
54-Xe-133

MAT 5452

54-Xe-133

Elastic

Cross Section -99.76 To 3437. %

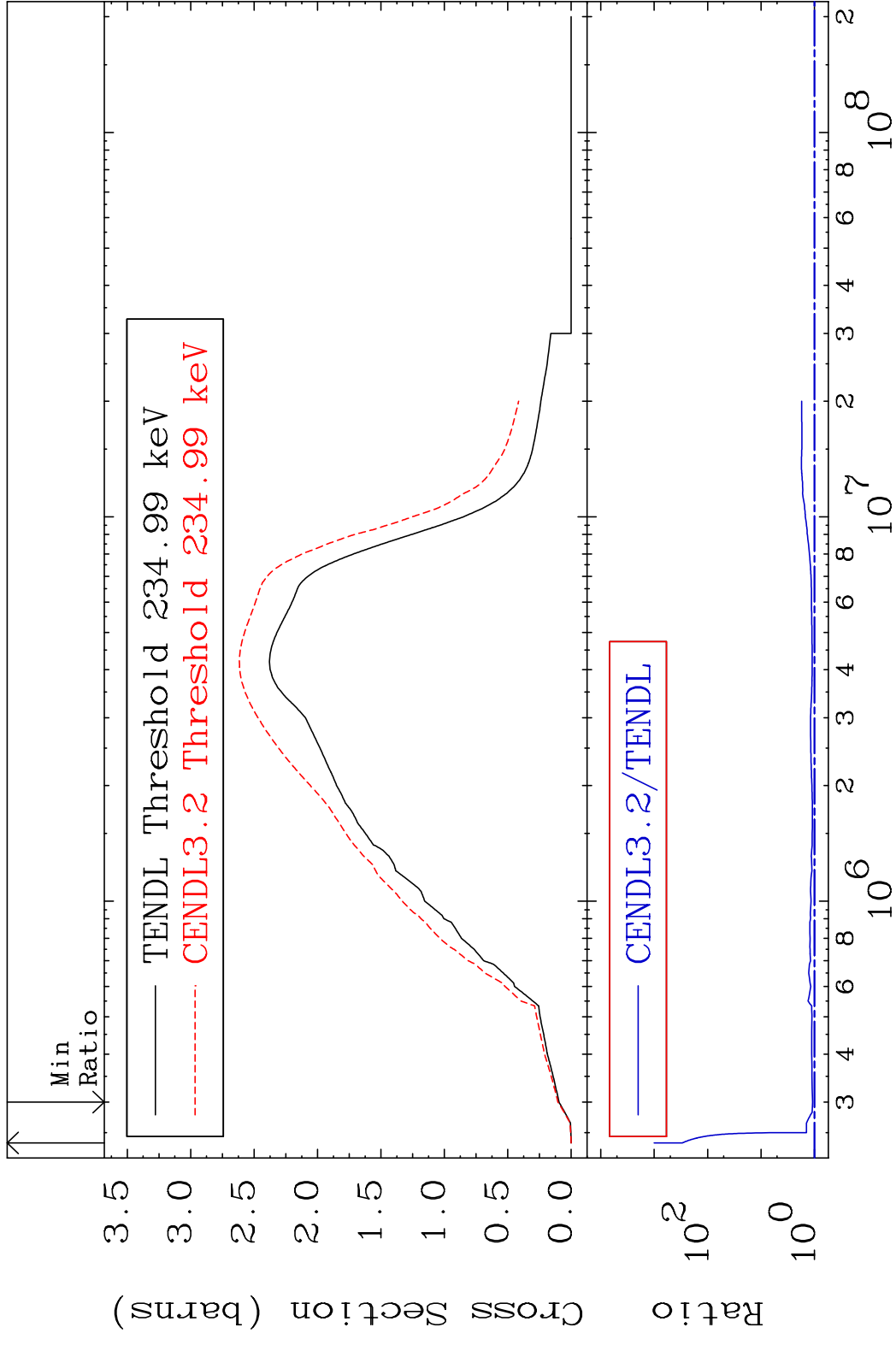


2

Incident Energy (eV)

54-Xe-133

MAT 5452 Inelastic 54-Xe-133  
 Cross Section 8.000 To 9999. %

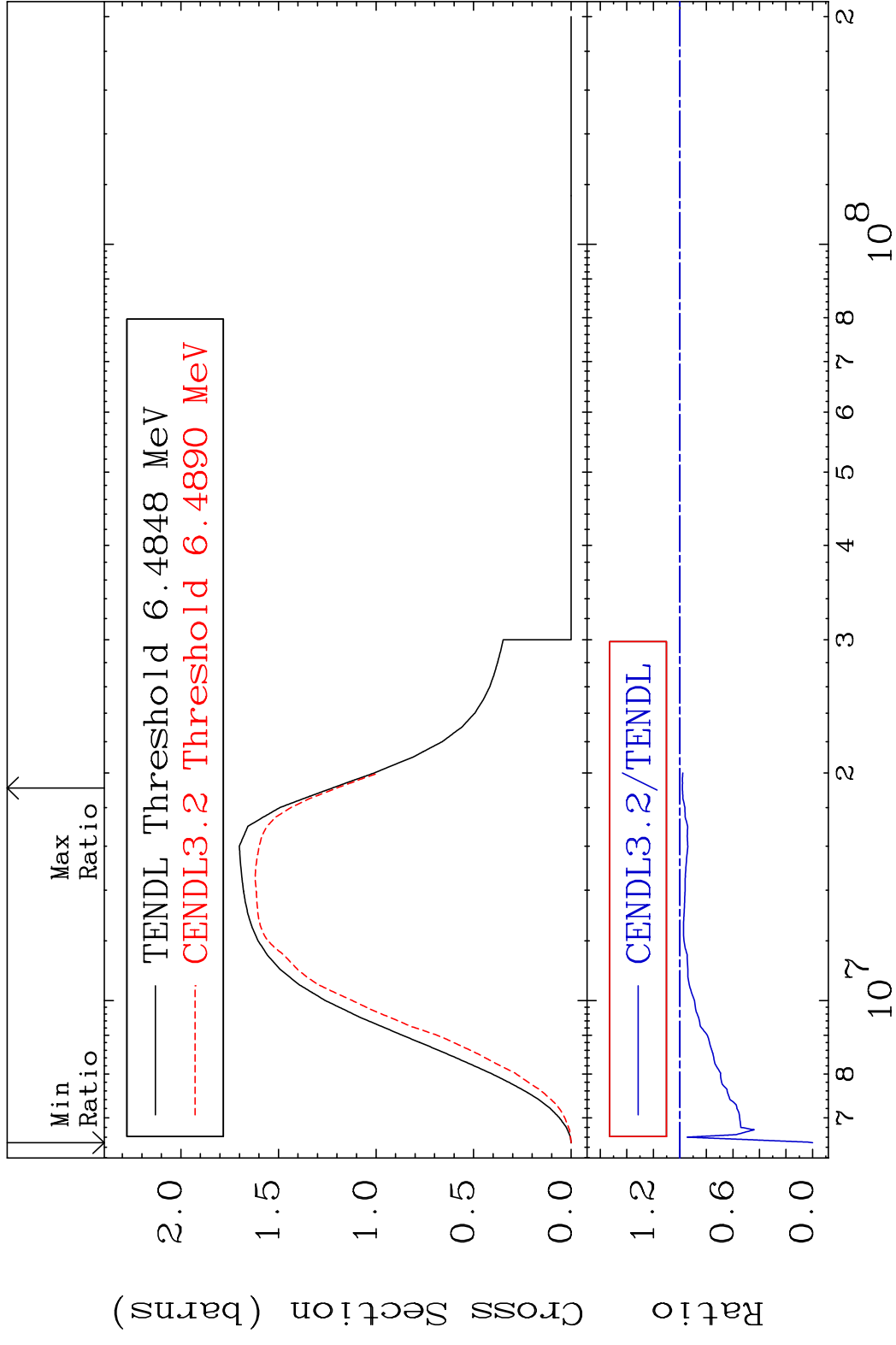


MAT 5452

(n,2n)

54-Xe-133

Cross Section -100.0 To -1.865%



4

Incident Energy (eV)

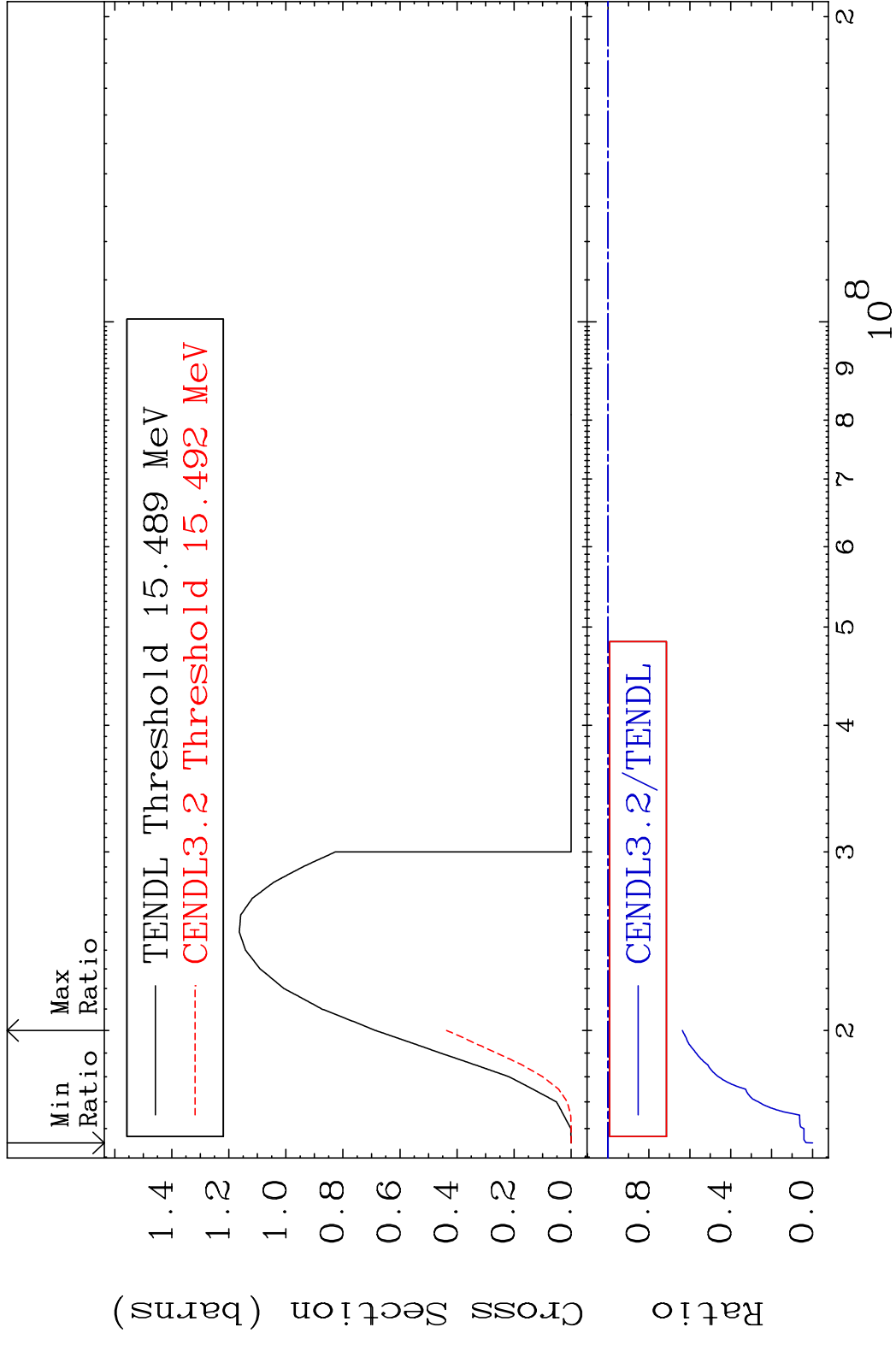
54-Xe-133

MAT 5452

(n,3n)

54-Xe-133

Cross Section -100.0 To -36.35%

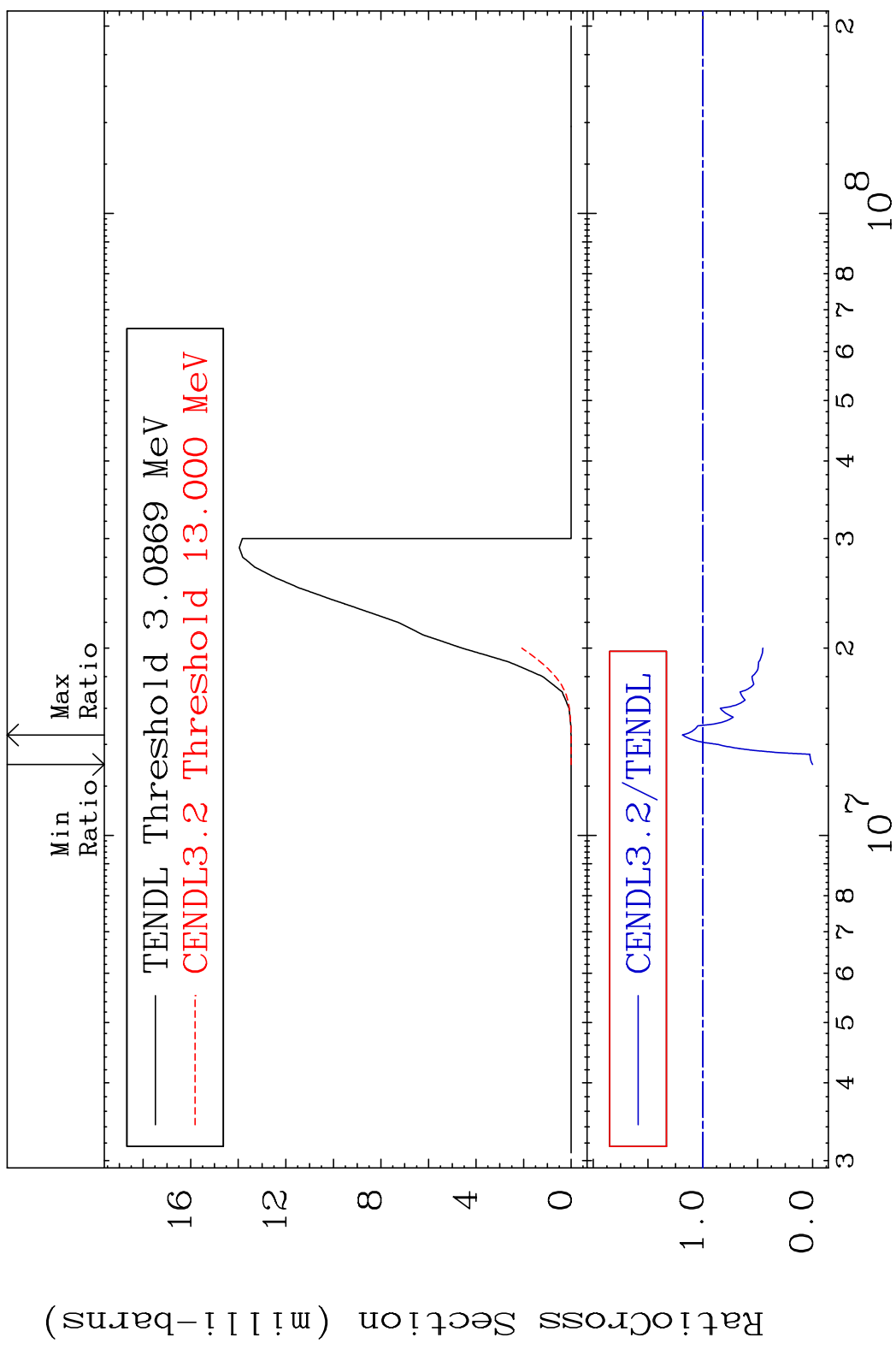


MAT 5452

(n, n')  $\alpha$

54-Xe-133

Cross Section -100.0 To 18.72 %



6

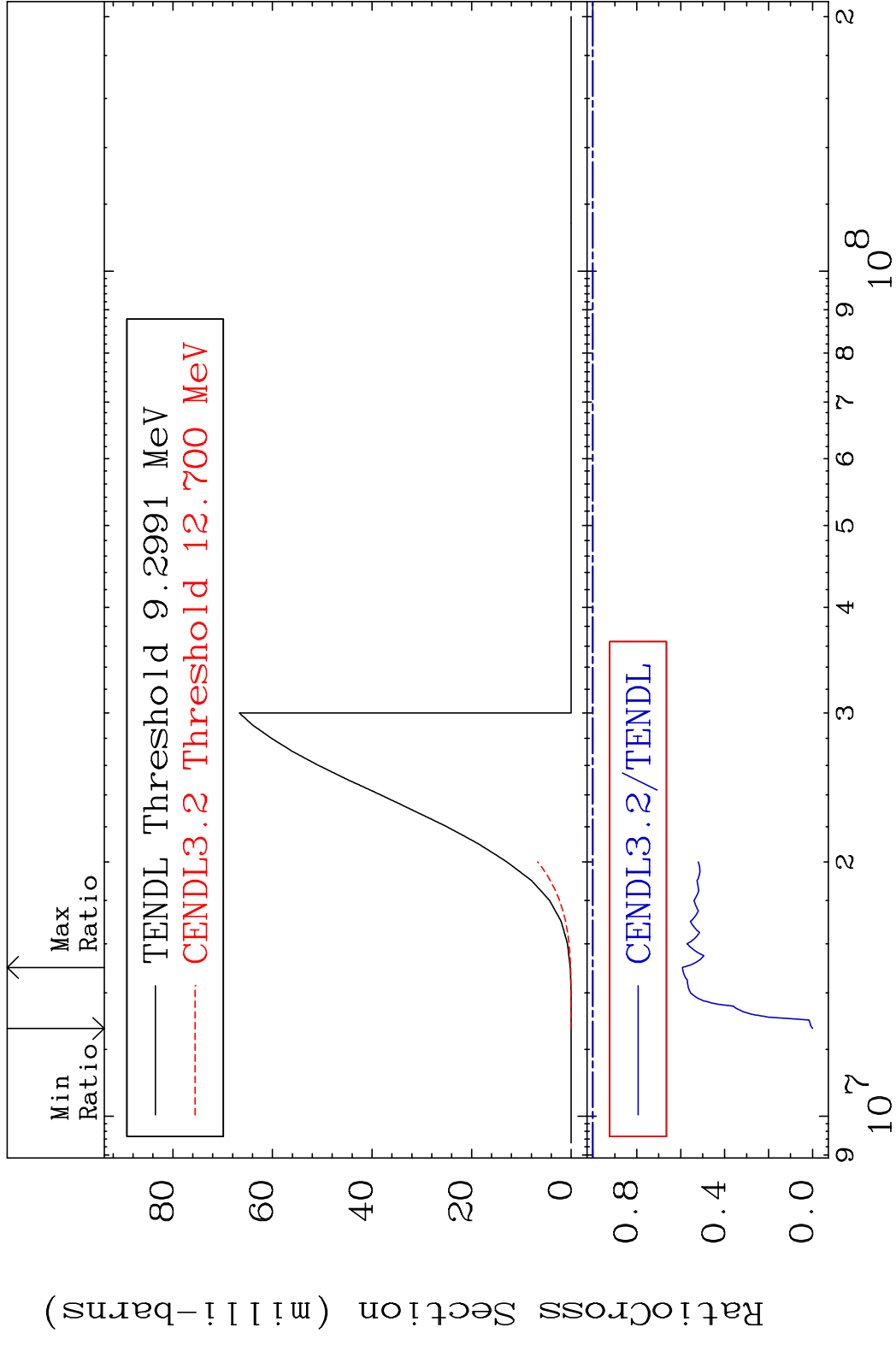
Incident Energy (eV)

54-Xe-133

MAT 5452

(n, n') p 54-Xe-133

Cross Section -100.0 To -40.75%



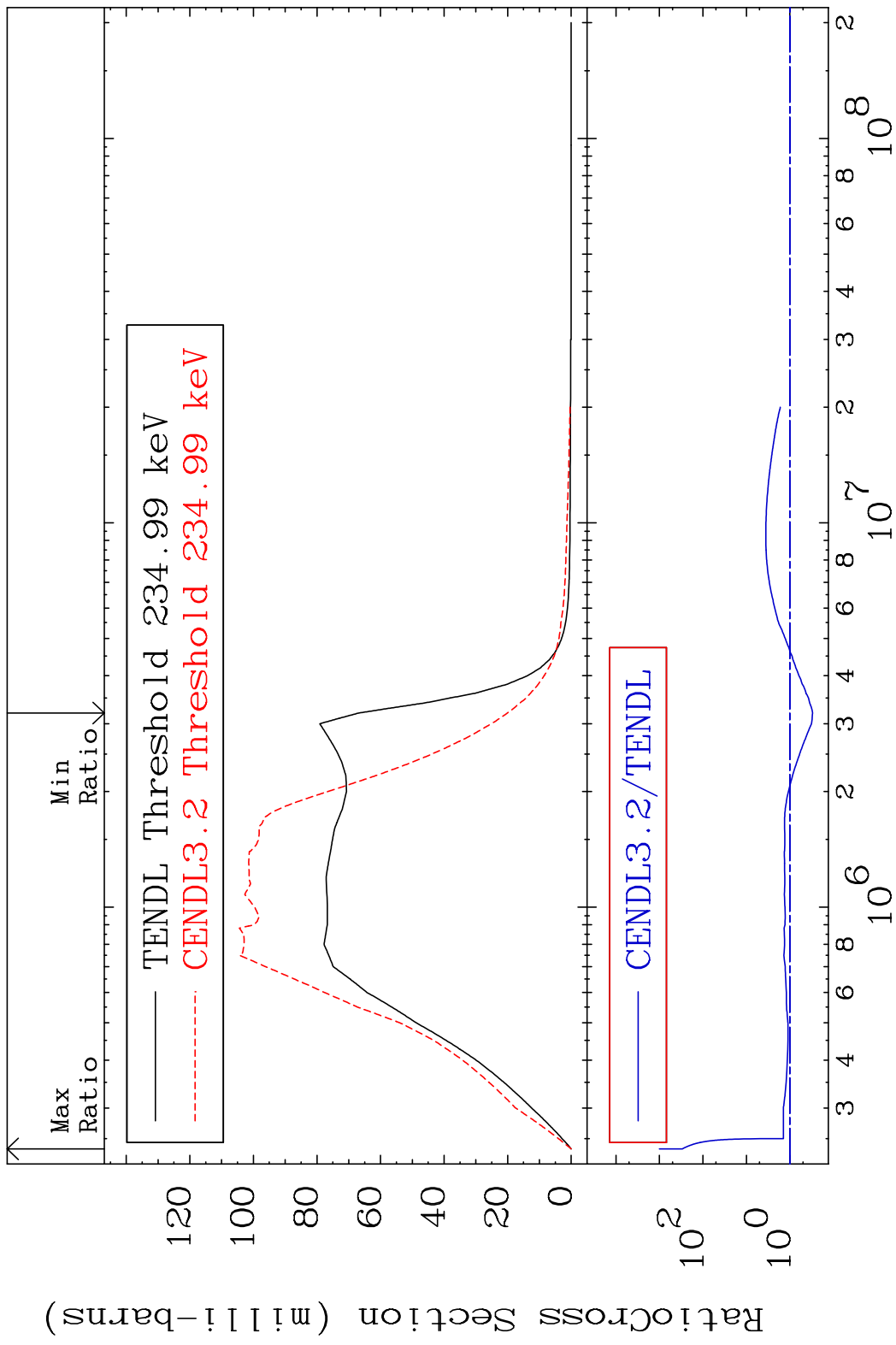
7

Incident Energy (eV)

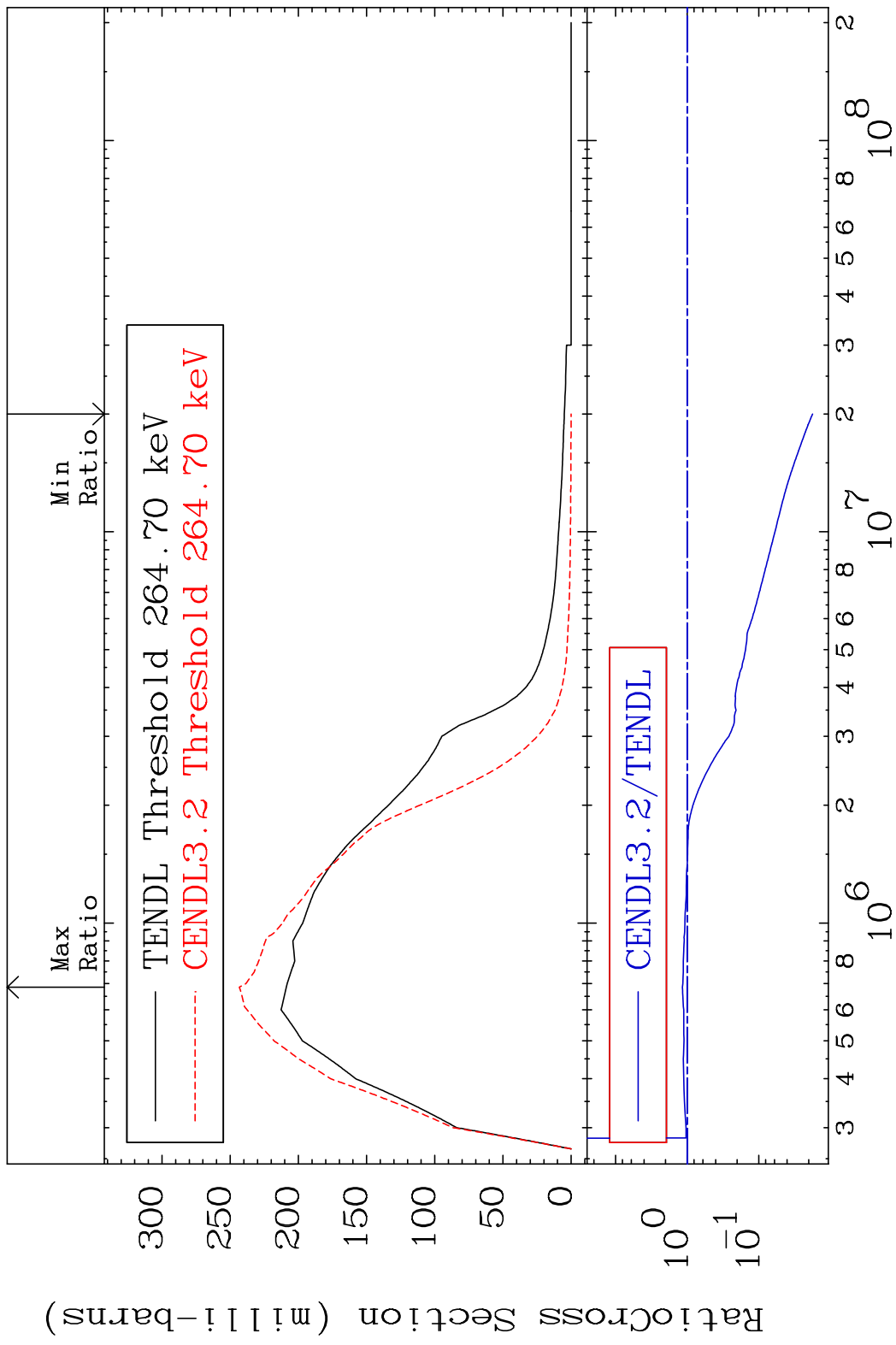
54-Xe-133



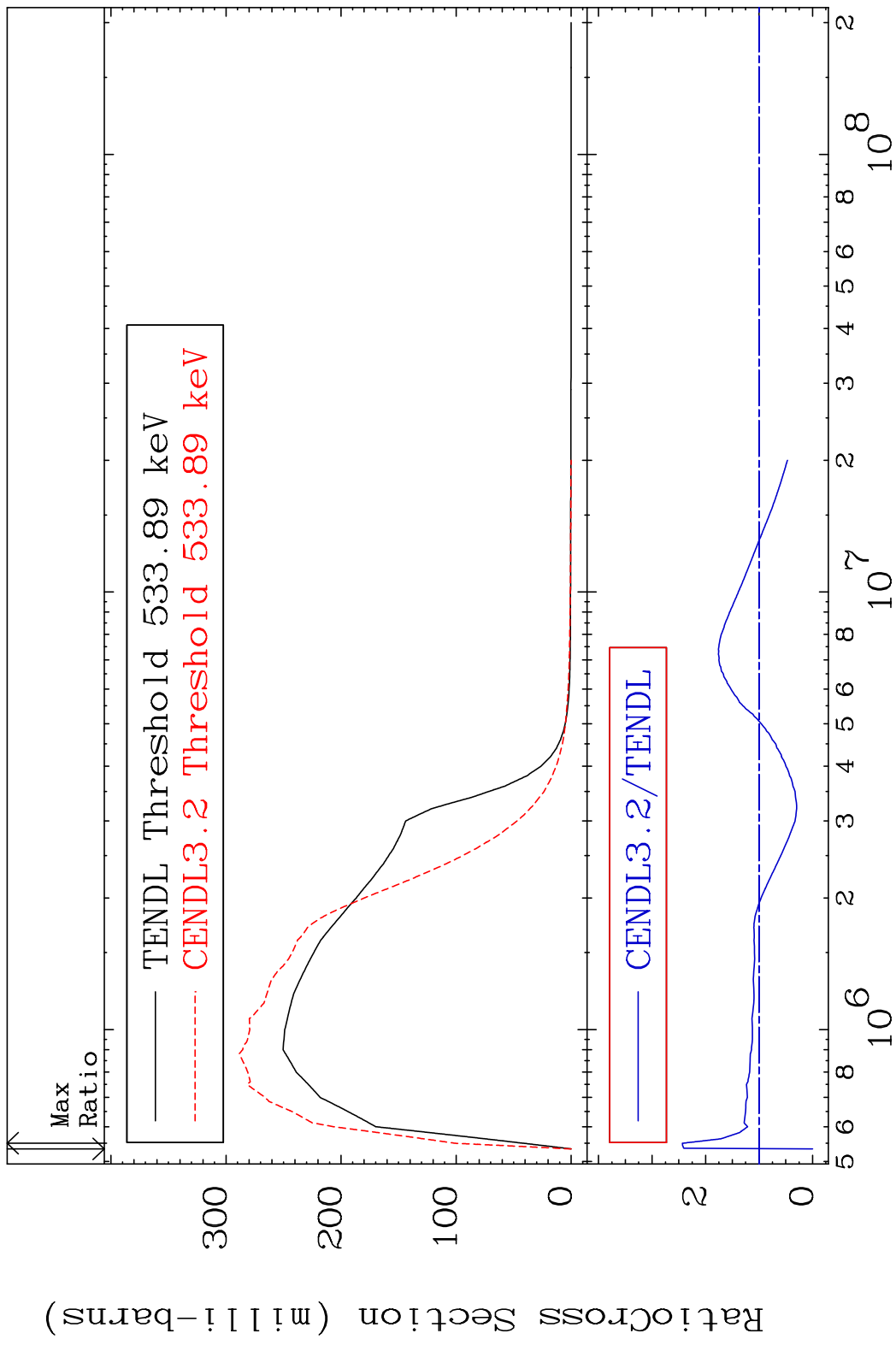
MAT 5452 MT= 51 (n,n') Level 54-Xe-133  
 Cross Section -69.94 To 9999. %



MAT 5452 MT= 52 (n, n') Level 54-Xe-133  
 Cross Section -98.23 To 16.49 %

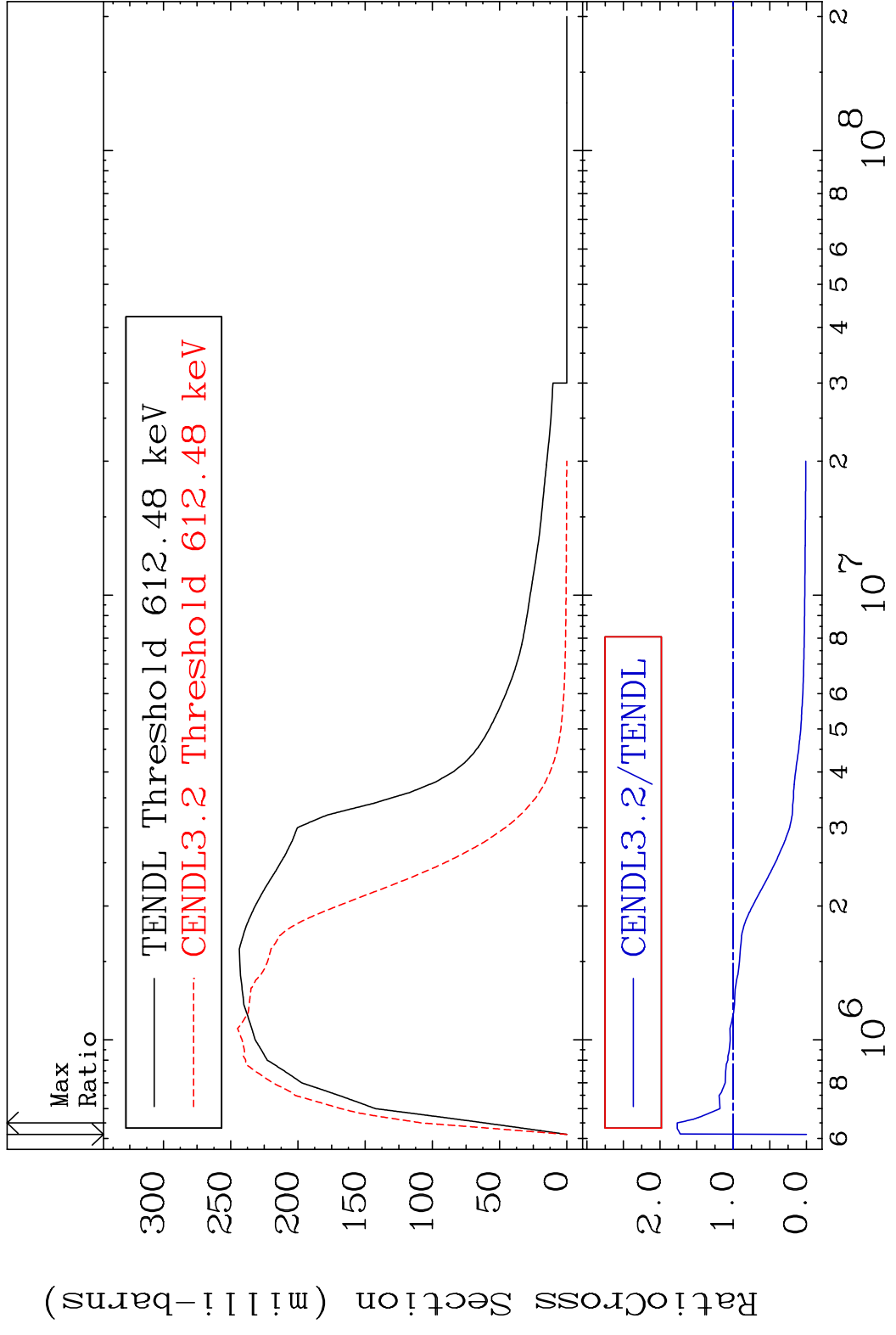


MAT 5452 MT= 53 (n,n') Level 54-Xe-133  
 Cross Section -100.0 To 143.3 %

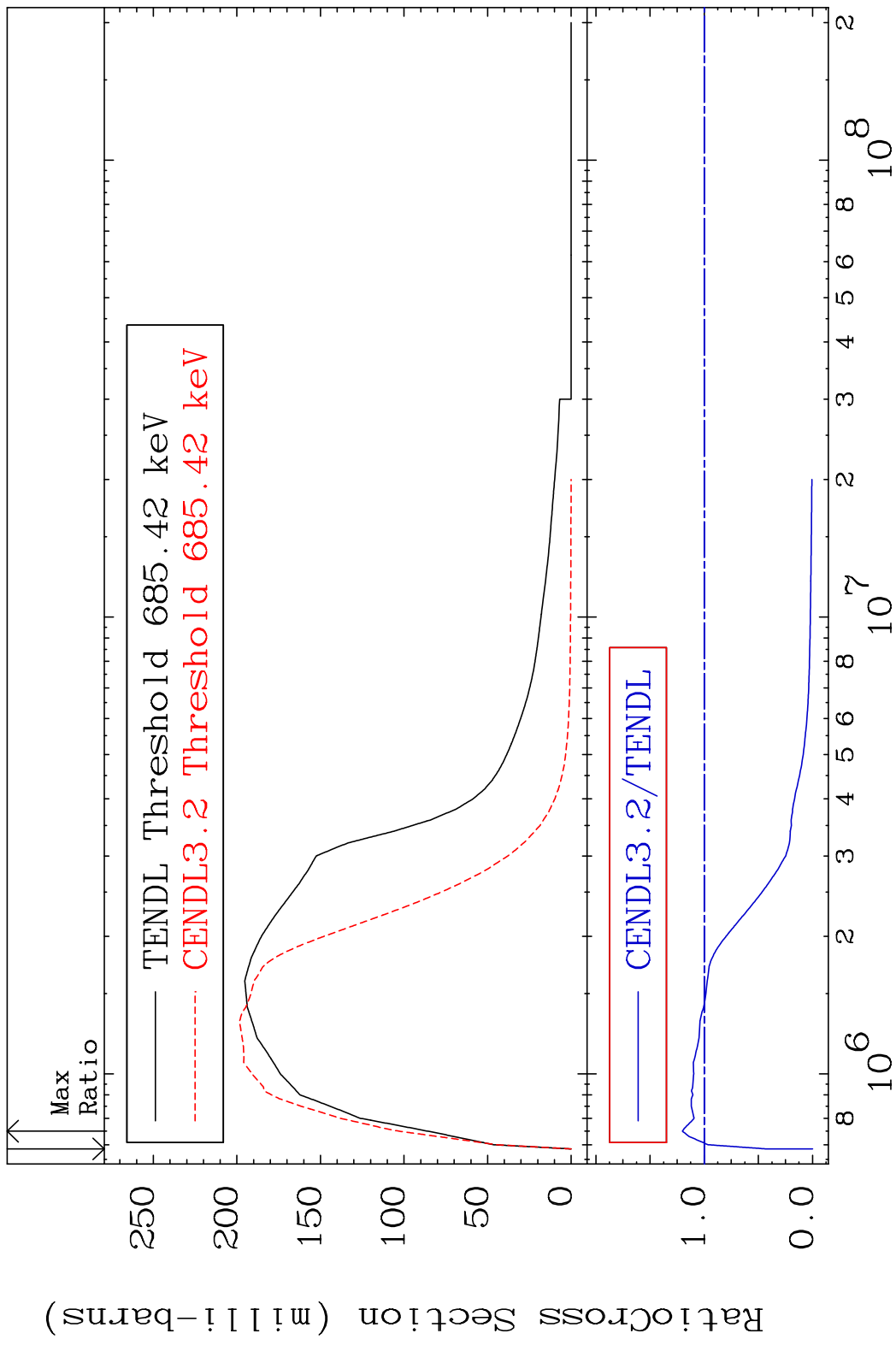


10 Incident Energy (eV) 54-Xe-133

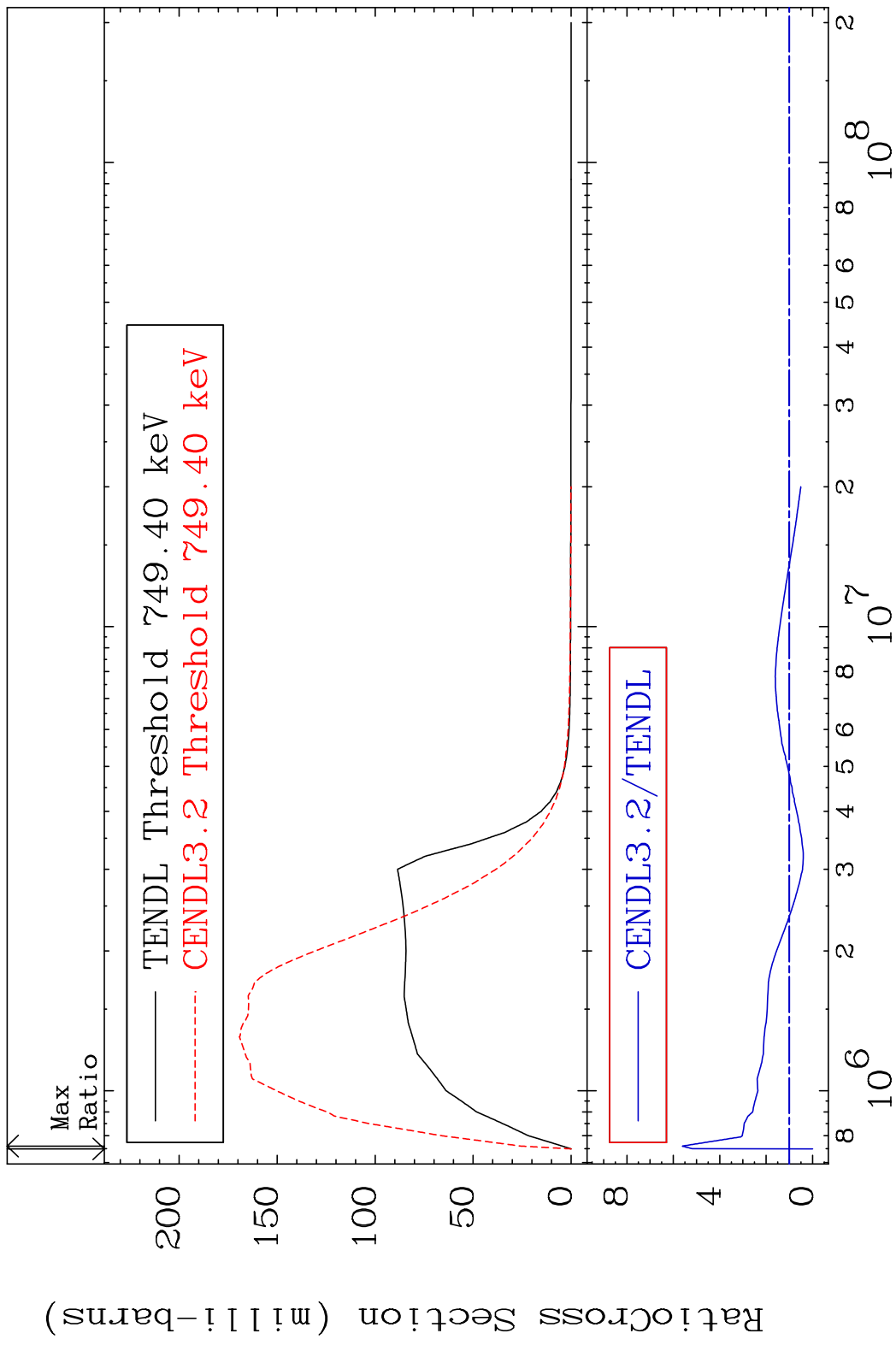
MAT 5452 MT= 54 (n,n') Level 54-Xe-133  
 Cross Section -100.0 To 76.58 %



MAT 5452 MT= 55 (n,n') Level 54-Xe-133  
 Cross Section -100.0 To 20.18 %

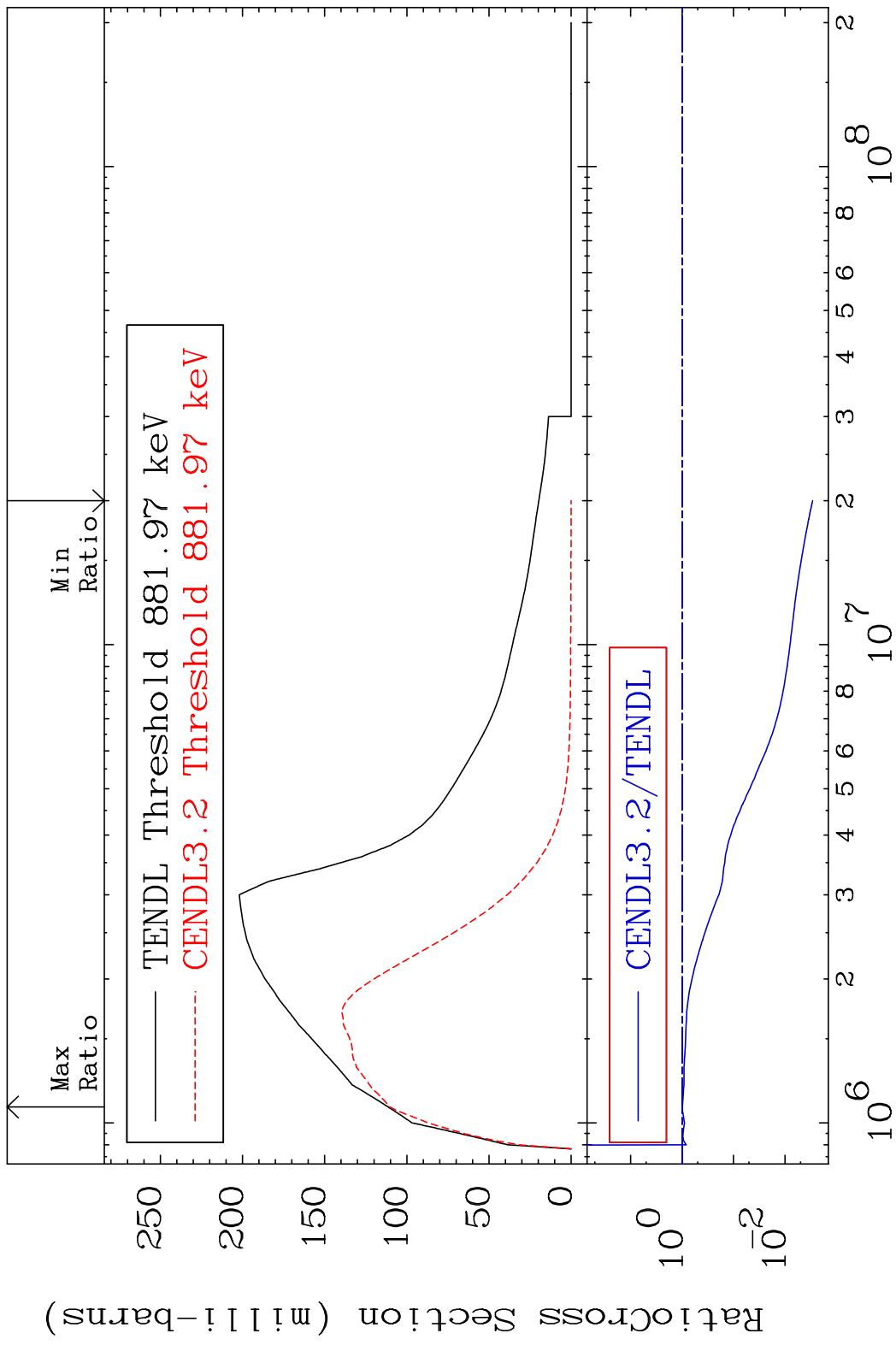


MAT 5452 MT= 56 (n,n') Level 54-Xe-133  
 Cross Section -100.0 To 461.0 %



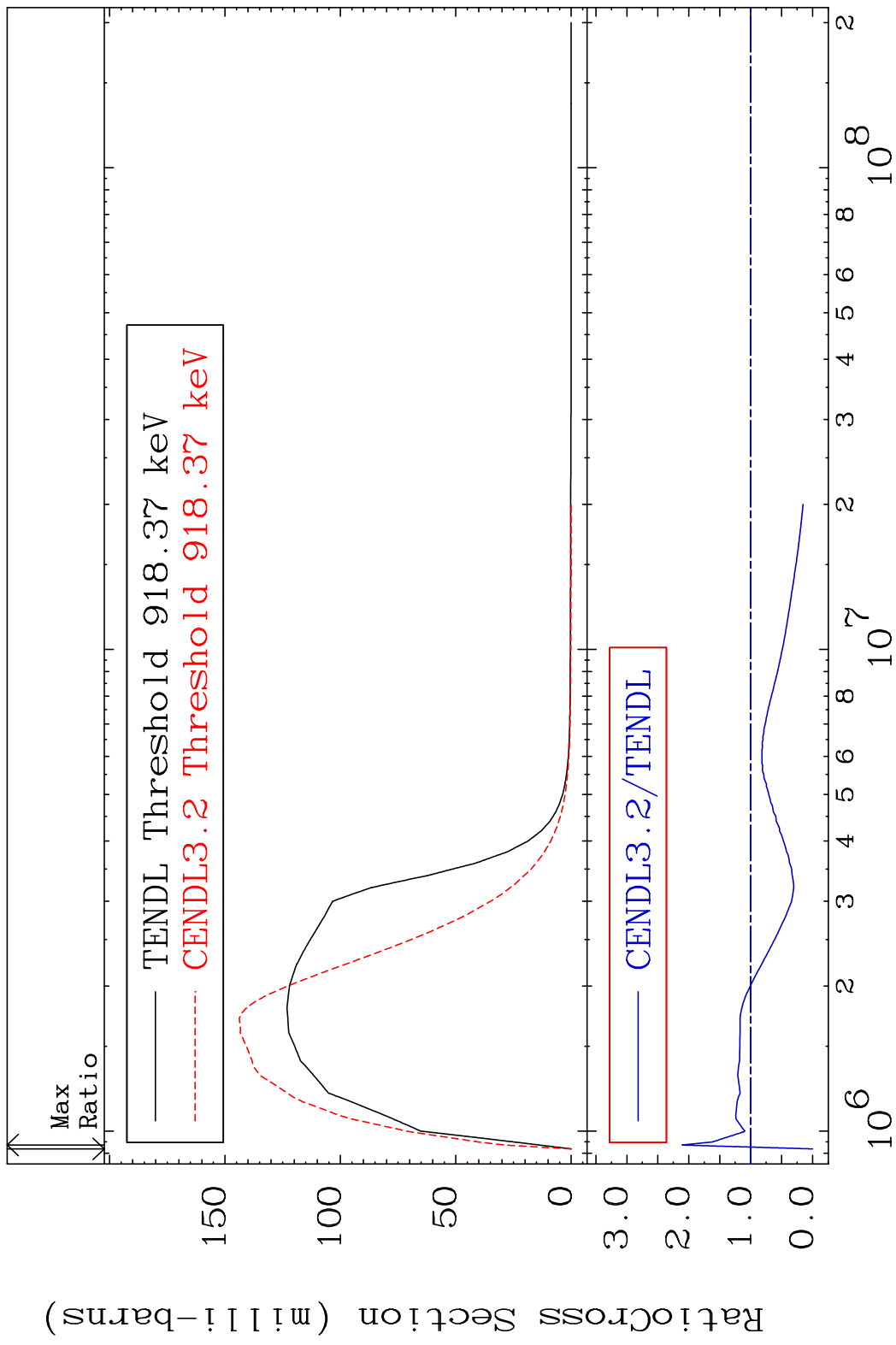
13 54-Xe-133

MAT 5452 MT= 57 (n, n') Level 54-Xe-133  
 Cross Section -99.71 To -0.994%



14 Incident Energy (eV) 54-Xe-133

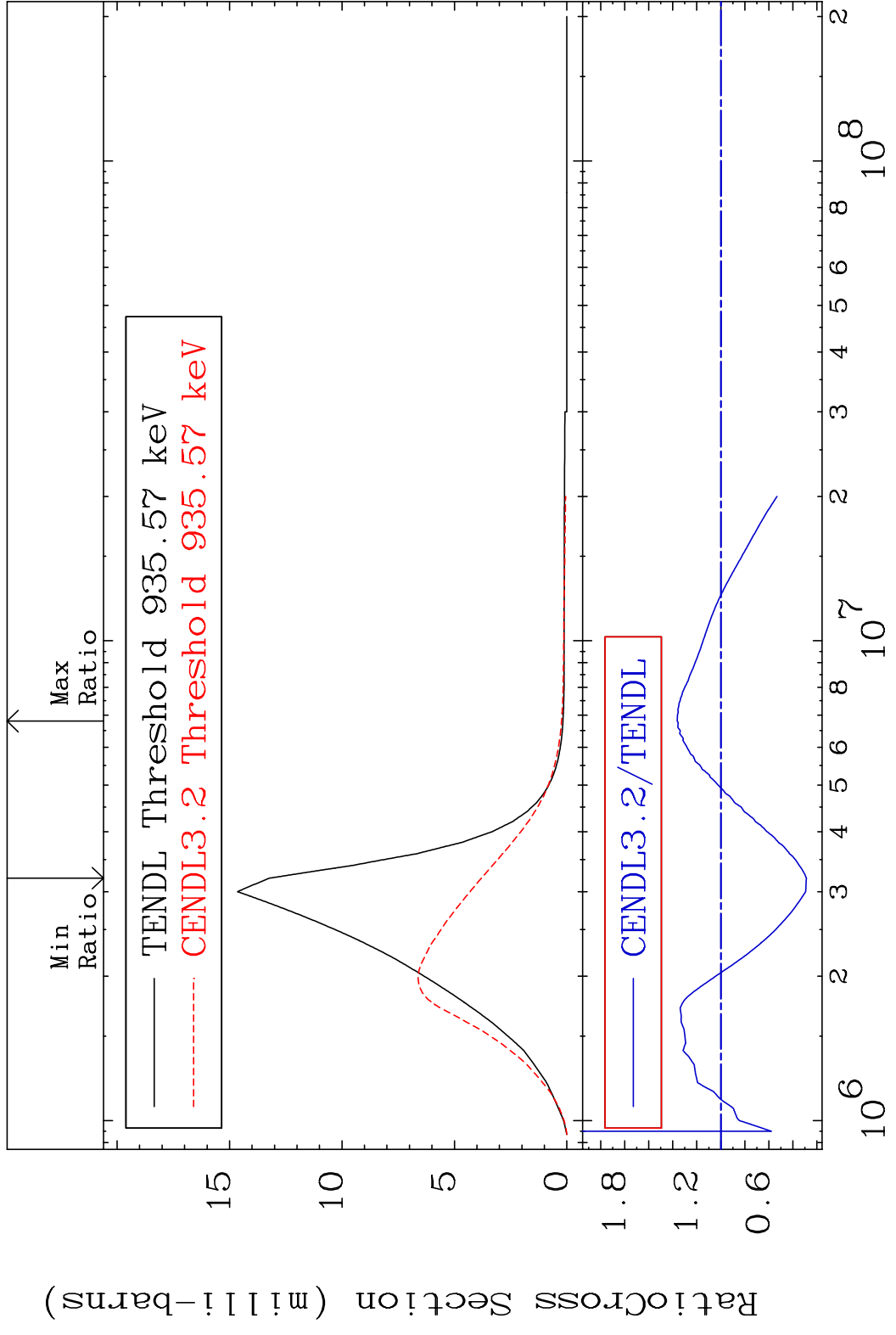
MAT 5452 MT= 58 (n,n') Level 54-Xe-133  
 Cross Section -100.0 To 110.3 %



15 54-Xe-133

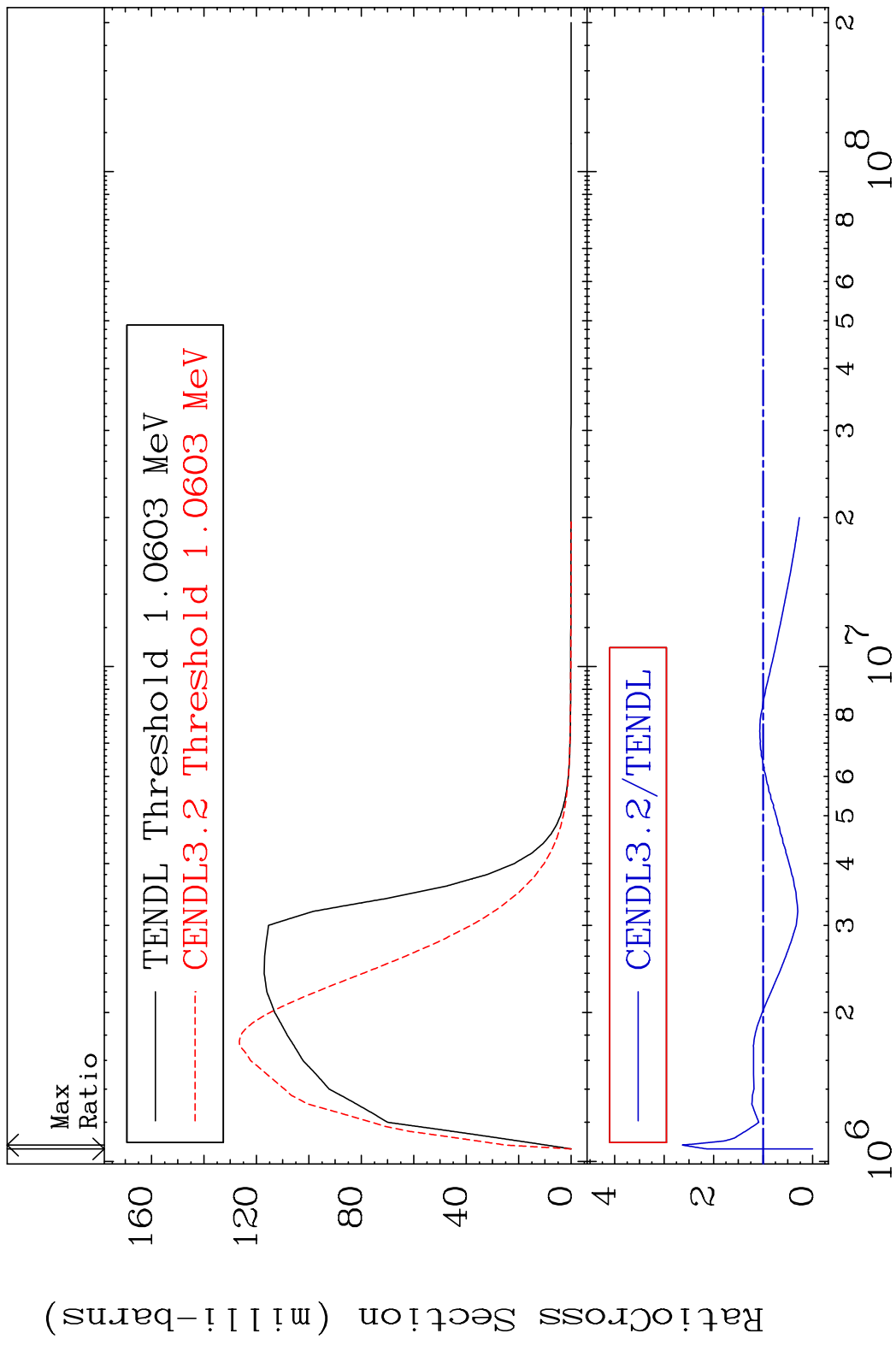


MAT 5452 MT= 59 (n, n') Level 54-Xe-133  
 Cross Section -71.29 To 36.33 %



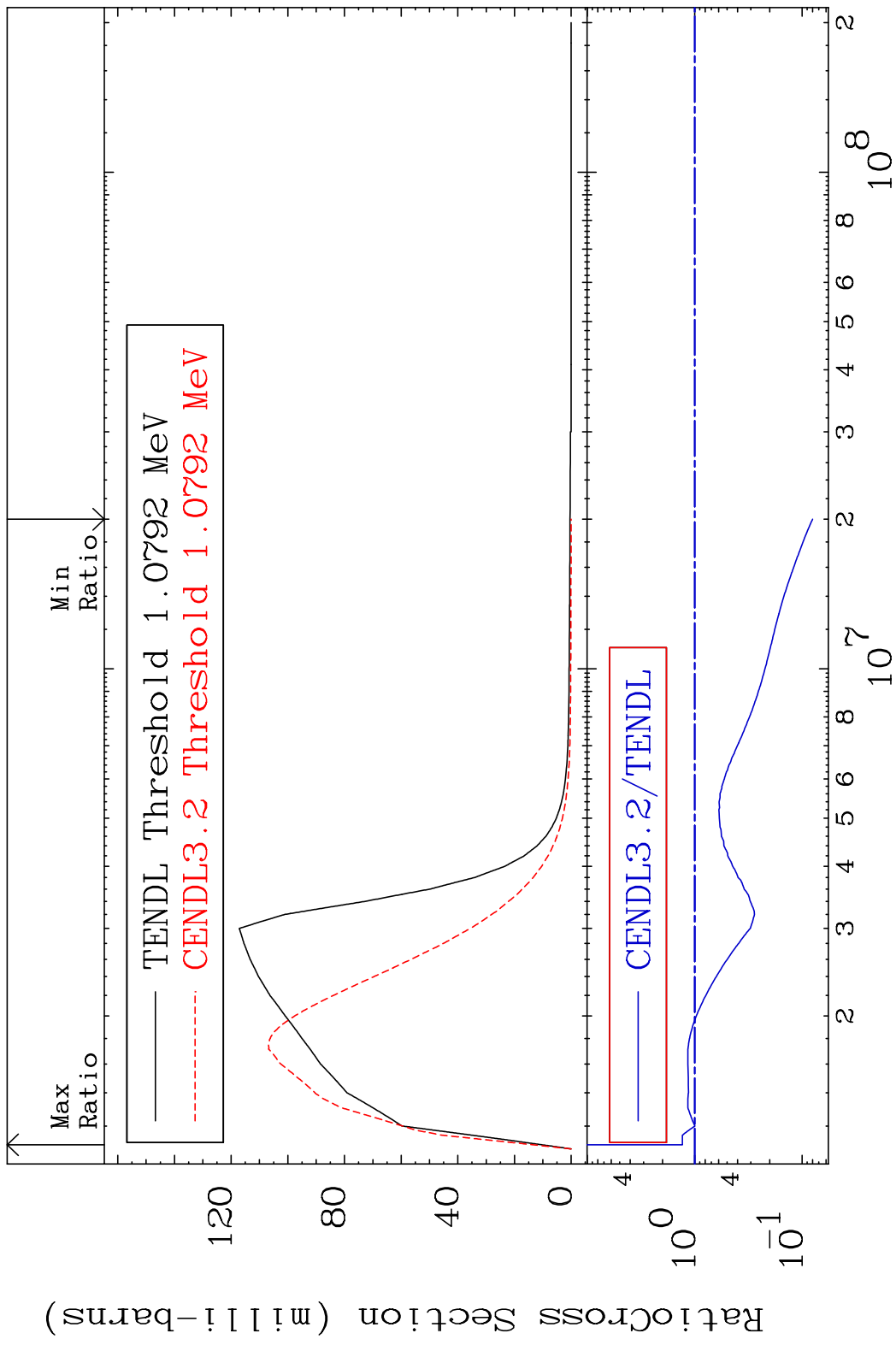
16 Incident Energy (eV) 54-Xe-133

MAT 5452 MT= 60 (n,n') Level 54-Xe-133  
 Cross Section -100.0 To 163.3 %



17 54-Xe-133

MAT 5452      MT= 61 (n, n') Level      54-Xe-133  
 Cross Section    -92.00 To 30.51 %

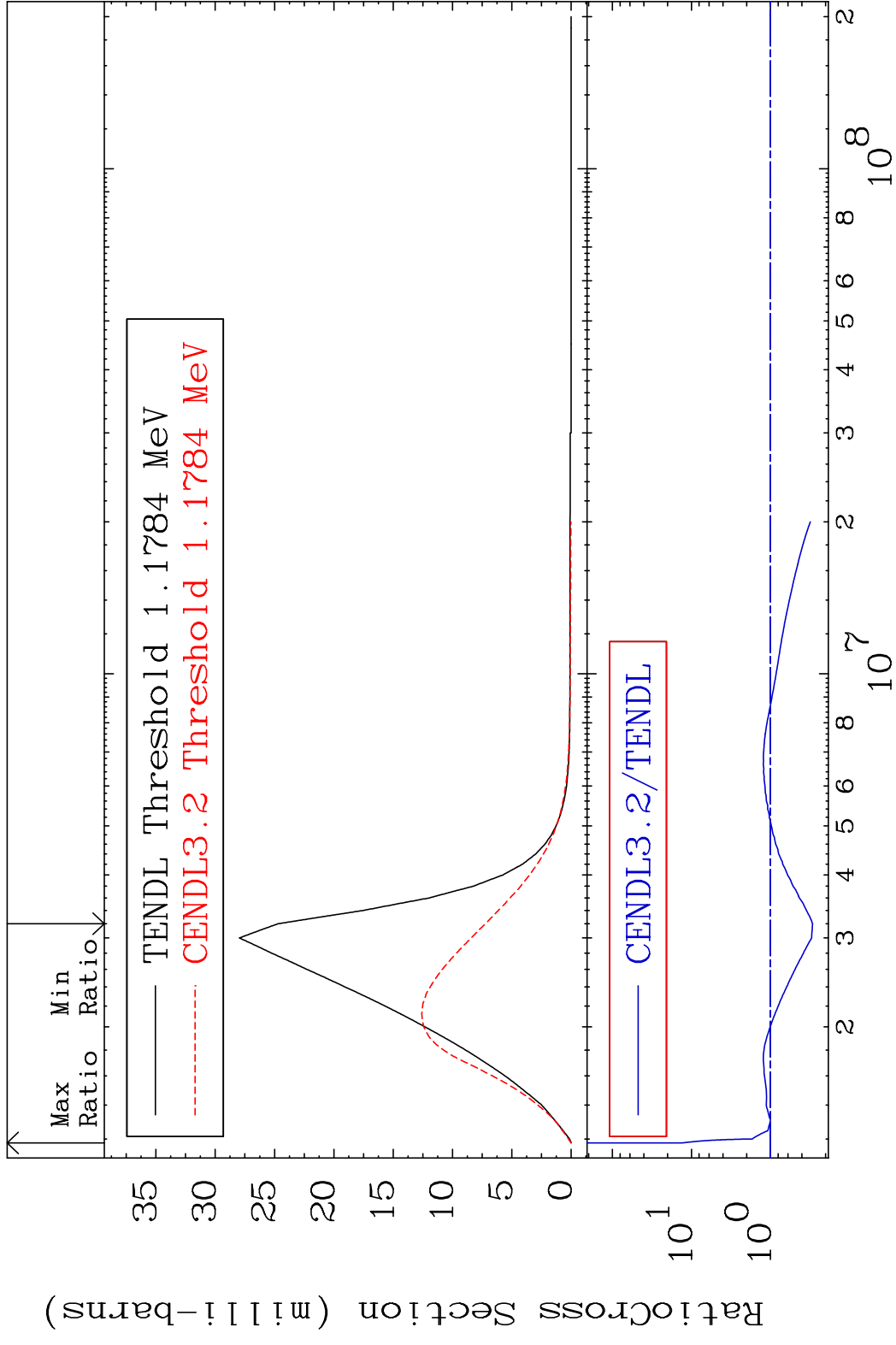


MAT 5452

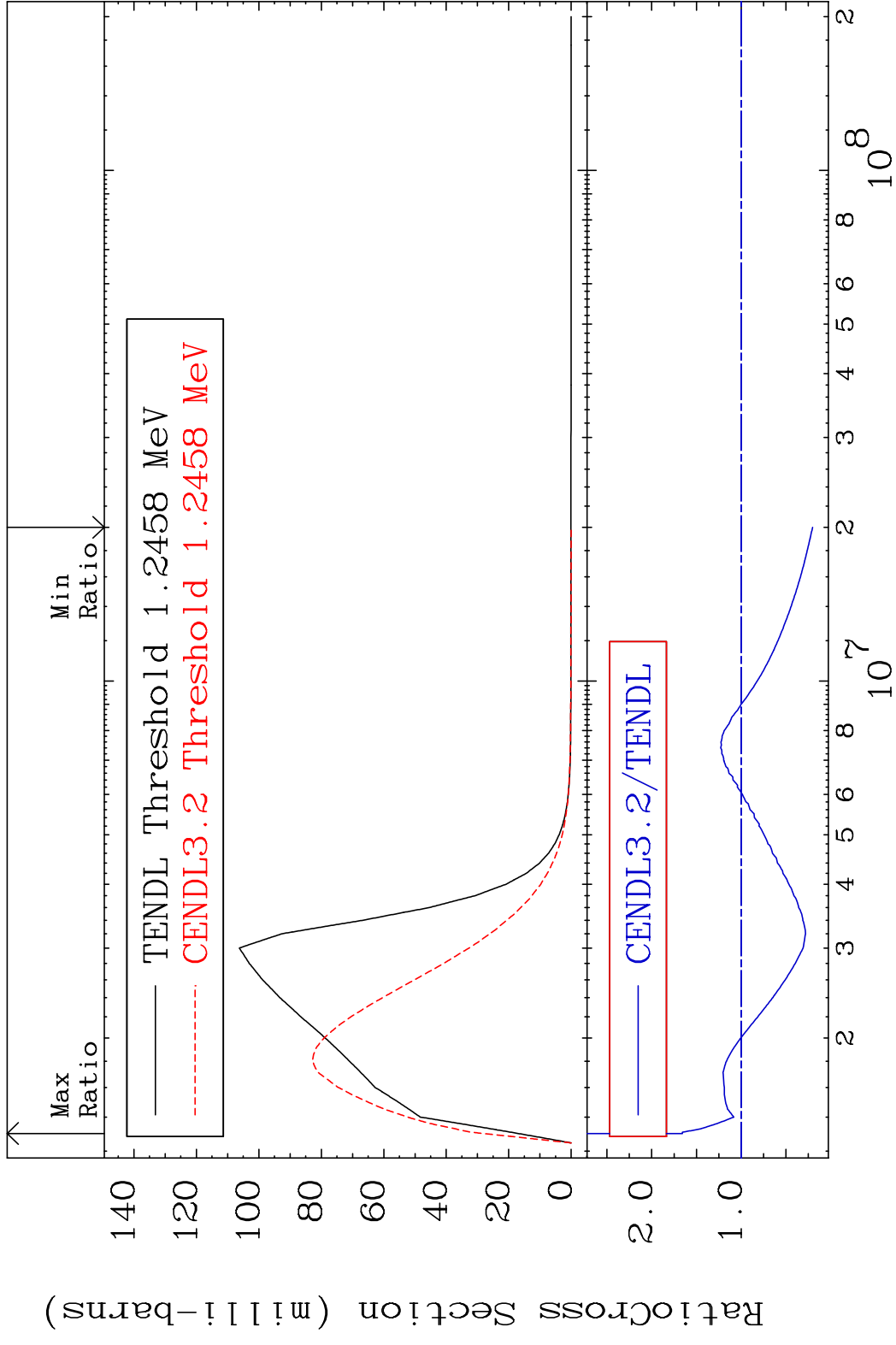
MT= 62 (n, n') Level

54-Xe-133

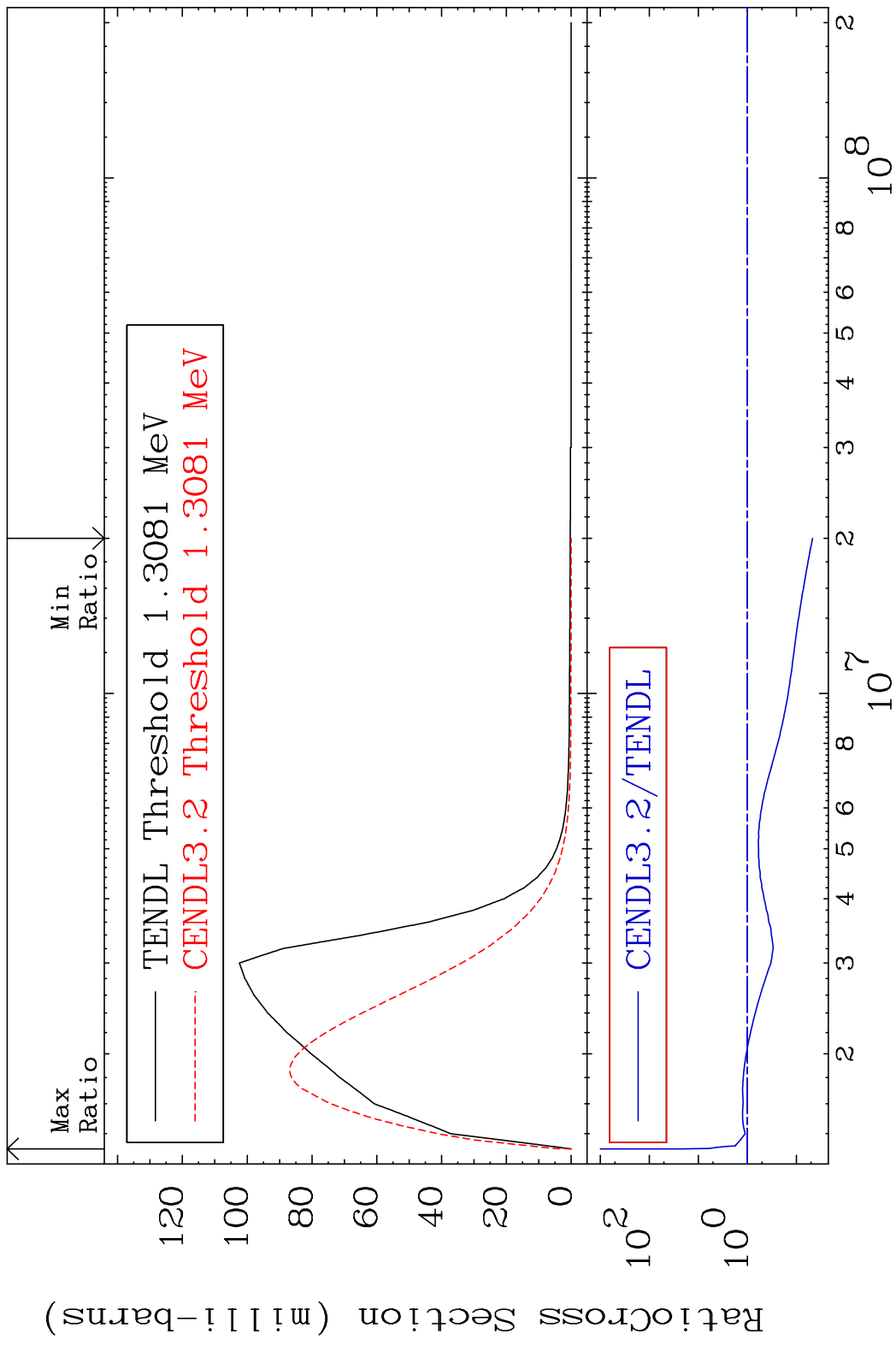
Cross Section -70.70 To 1203. %



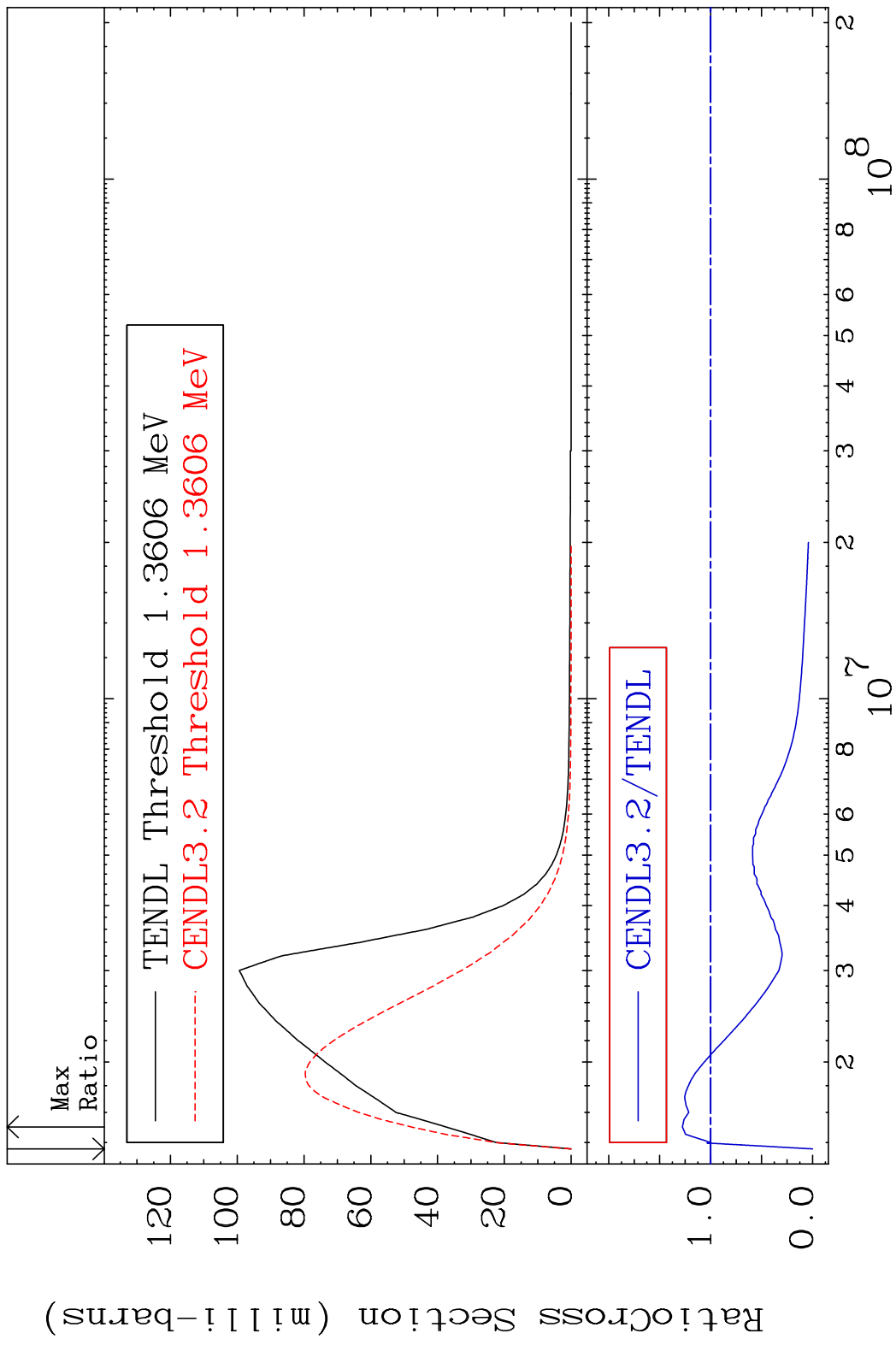
MAT 5452 MT= 63 (n, n') Level 54-Xe-133  
 Cross Section -79.80 To 65.75 %



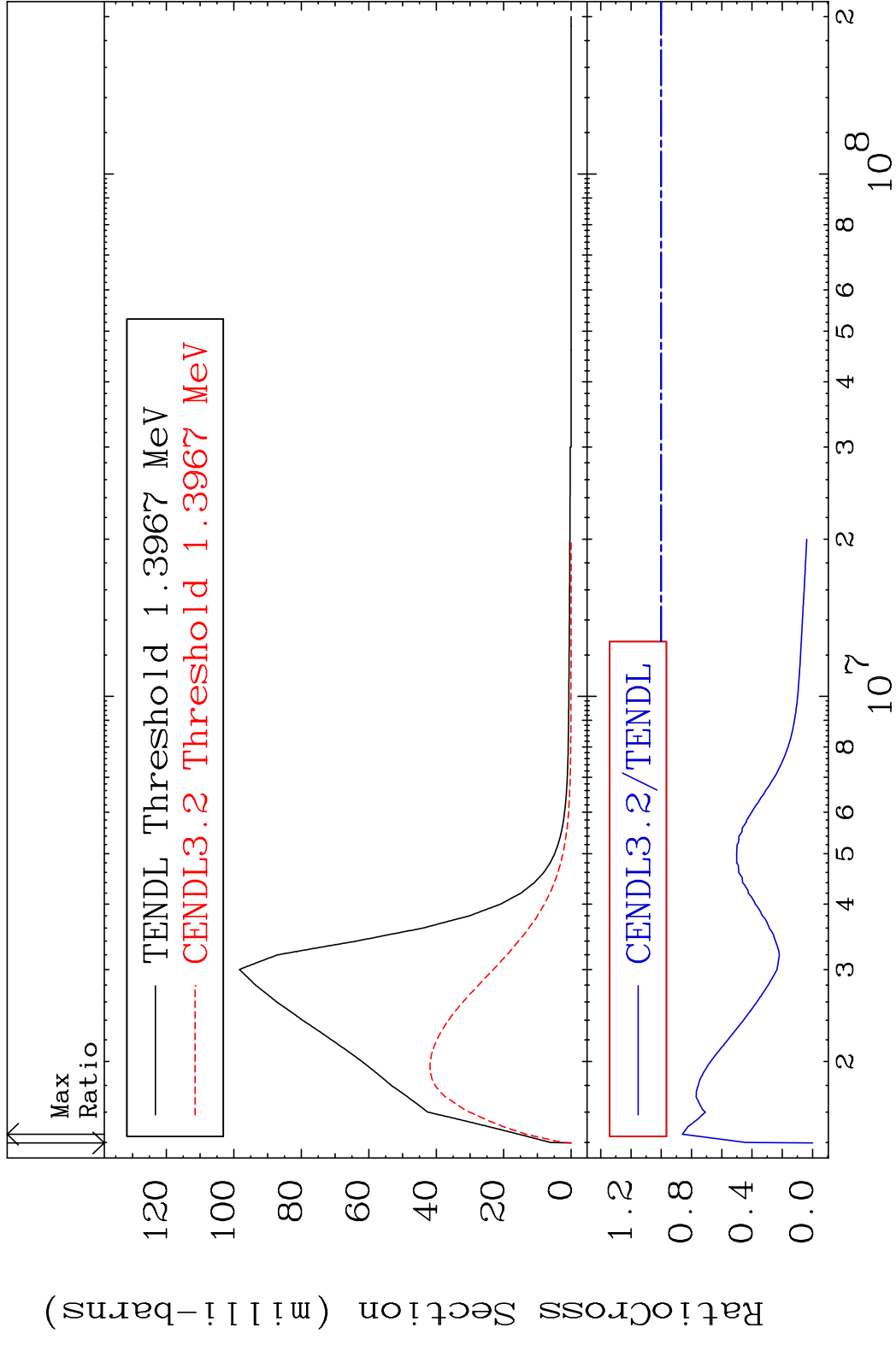
MAT 5452 MT= 64 (n, n') Level 54-Xe-133  
 Cross Section -95.33 To 2012. %



MAT 5452 MT= 65 (n, n') Level 54-Xe-133  
 Cross Section -100.0 To 27.72 %

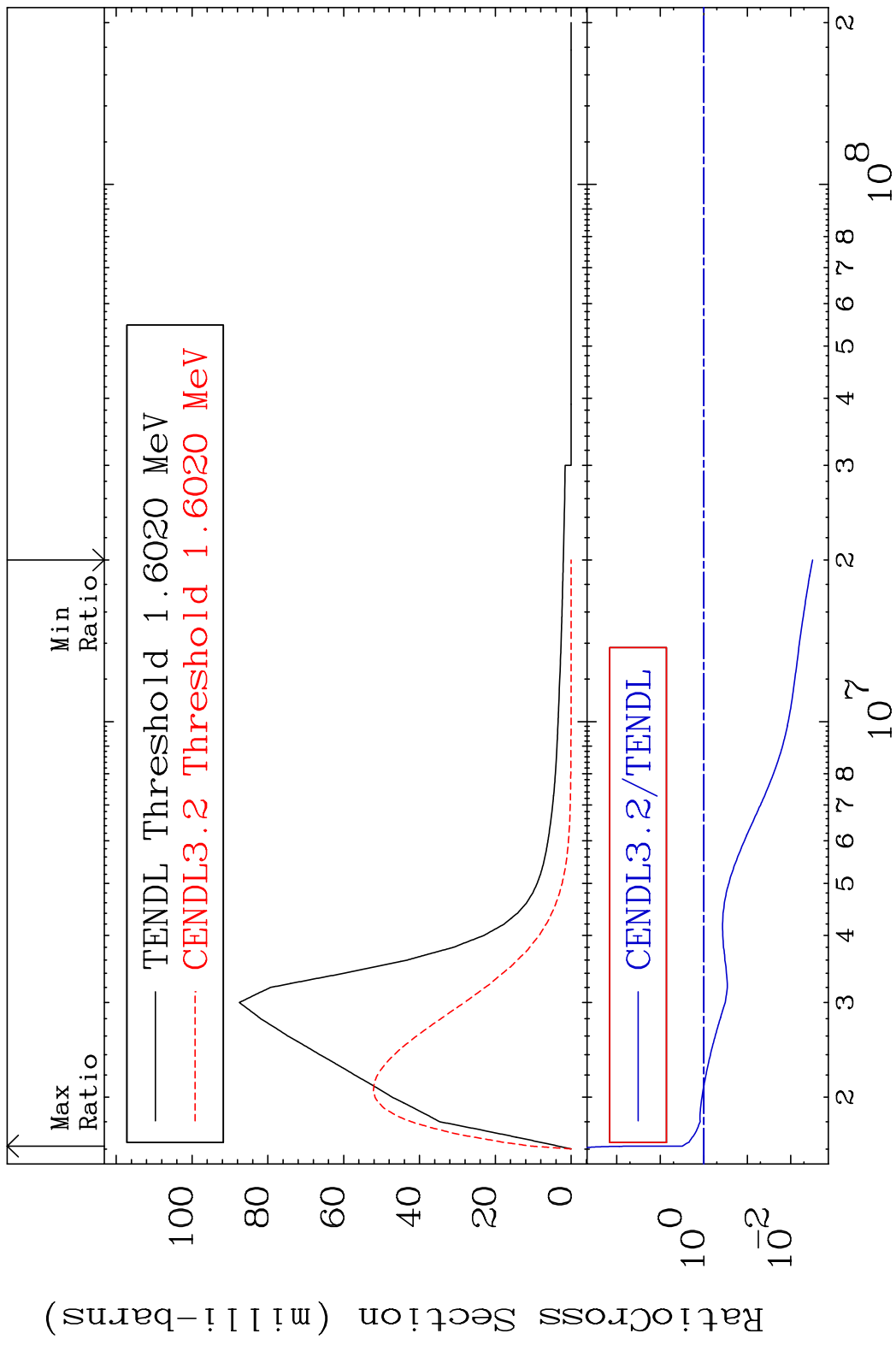


MAT 5452 MT= 66 (n, n') Level 54-Xe-133  
 Cross Section -100.0 To -13.93%

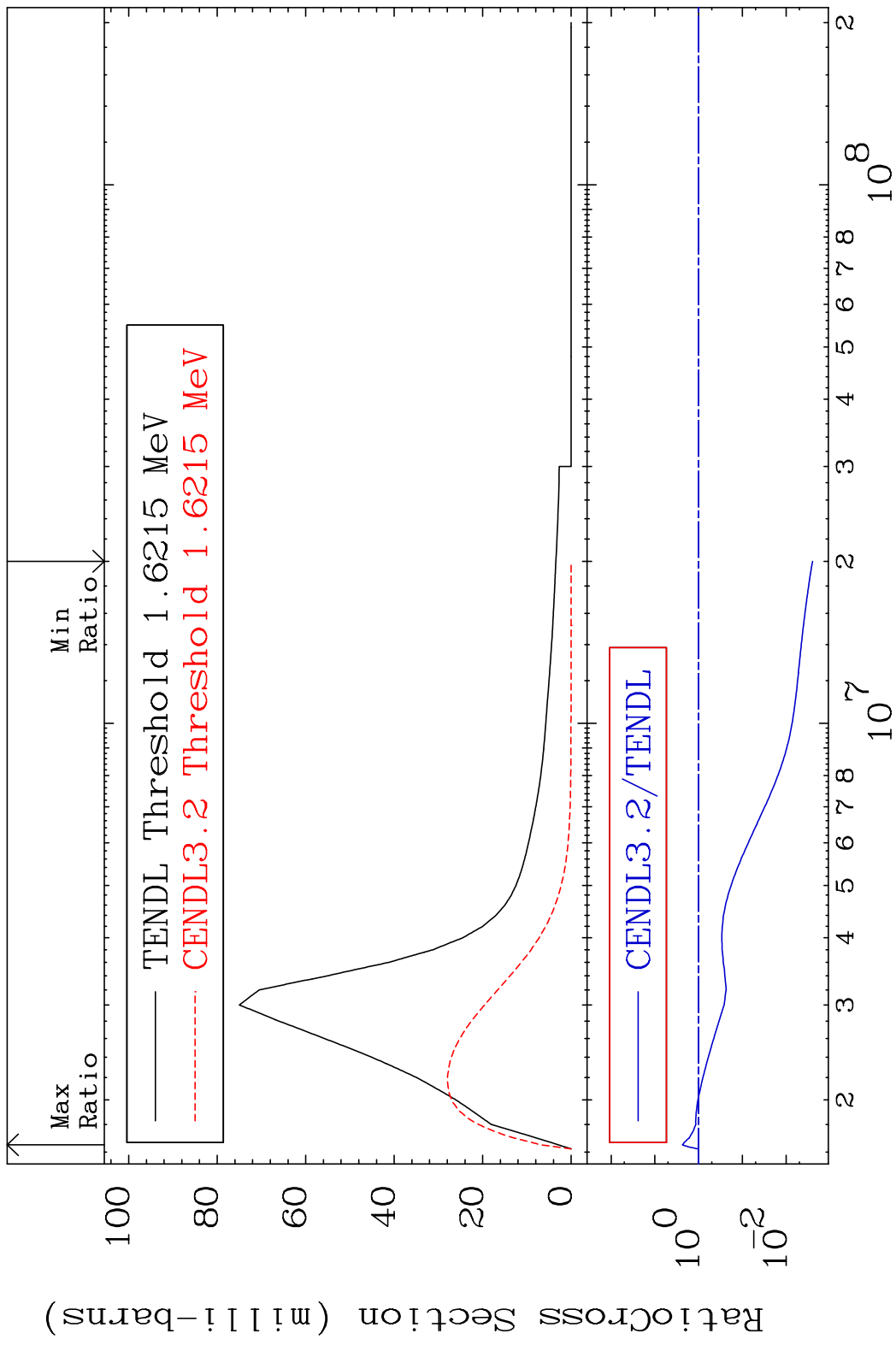




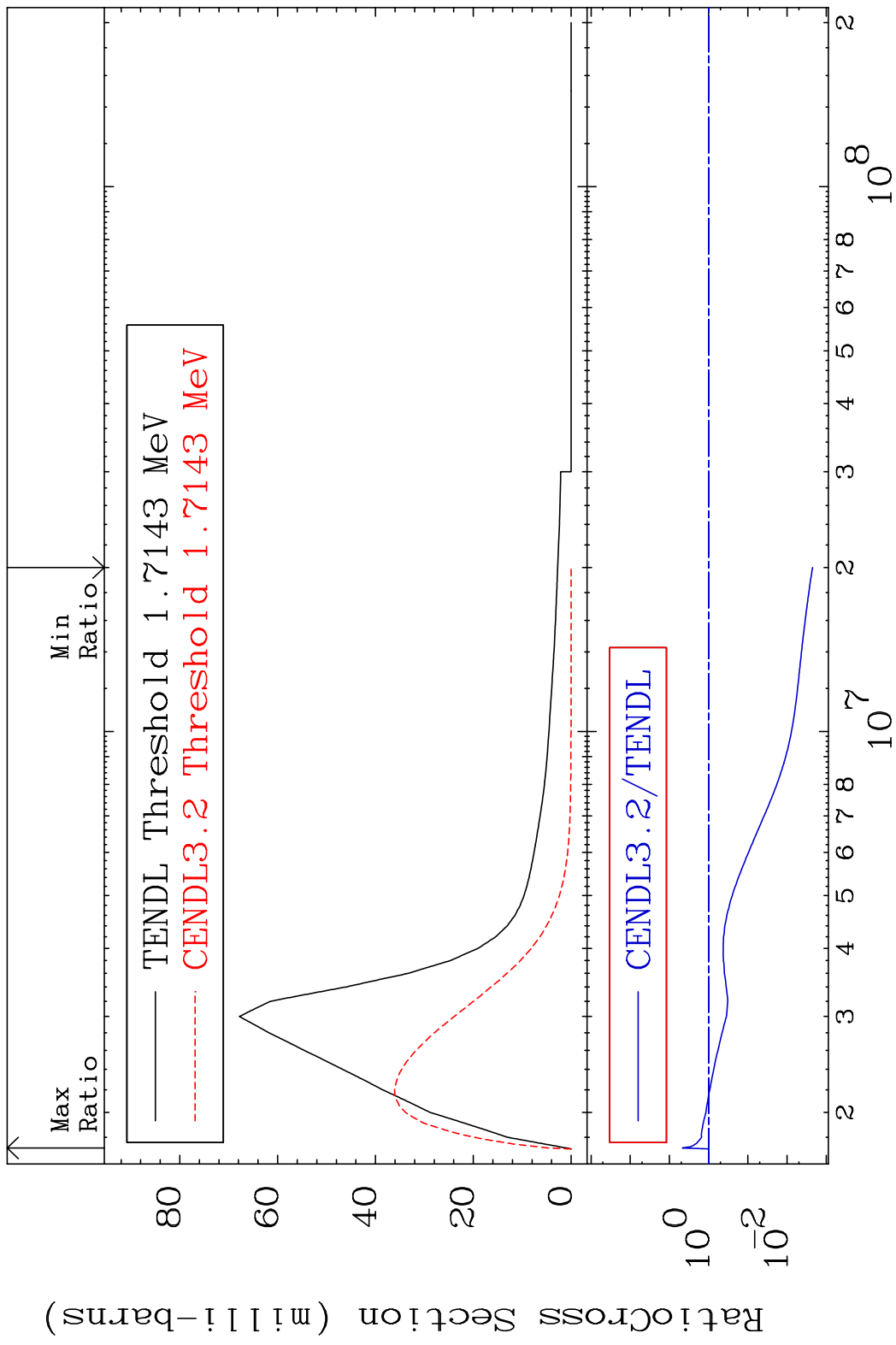
MAT 5452 MT= 67 (n, n') Level 54-Xe-133  
 Cross Section -99.68 To 211.3 %



MAT 5452 MT= 68 (n, n') Level 54-Xe-133  
 Cross Section -99.75 To 135.5 %



MAT 5452 MT= 69 (n, n') Level 54-Xe-133  
 Cross Section -99.78 To 368.4 %

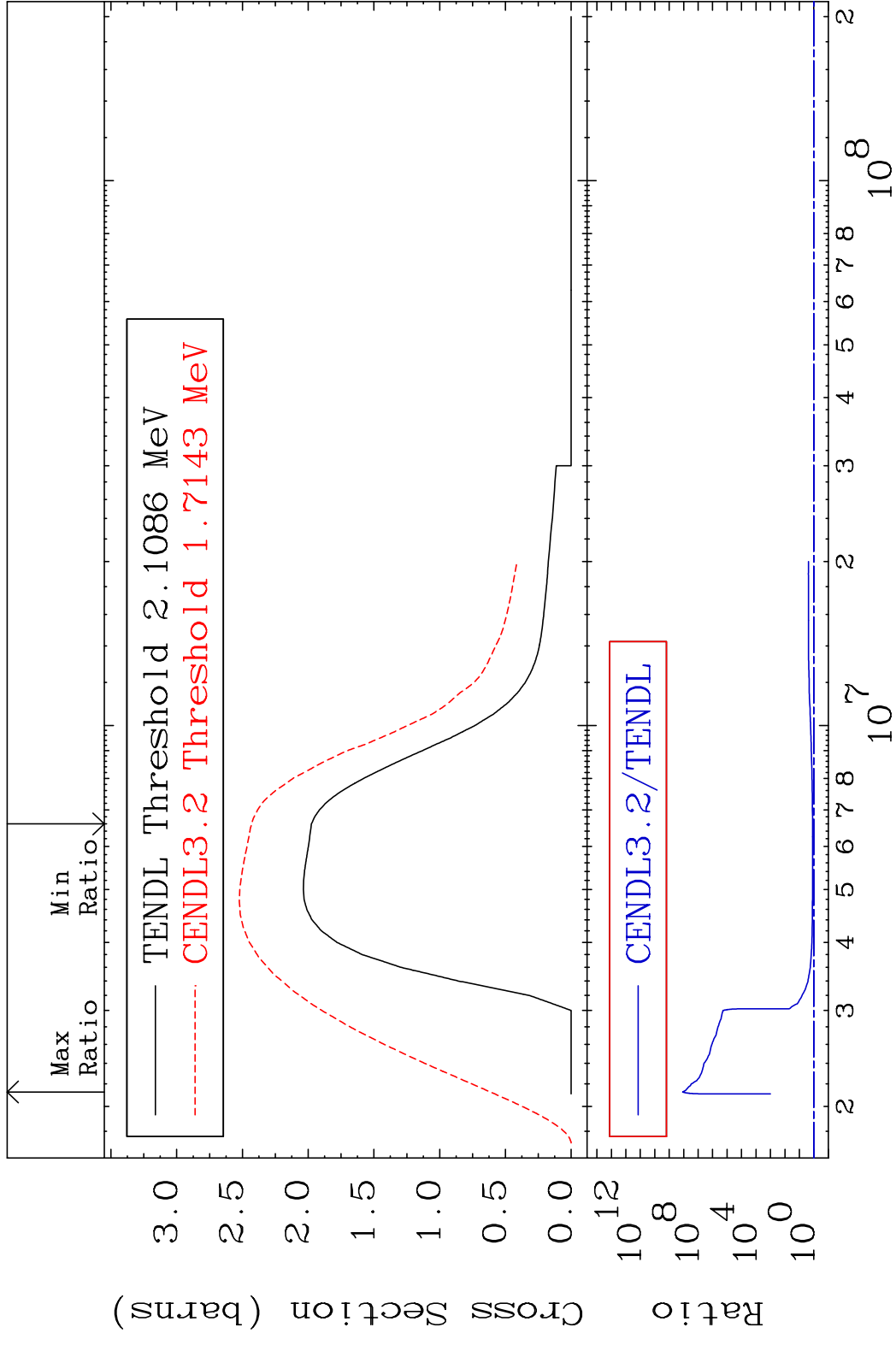


MAT 5452

(n,n') Continuum

54-Xe-133

Cross Section 23.06 To 9999. %

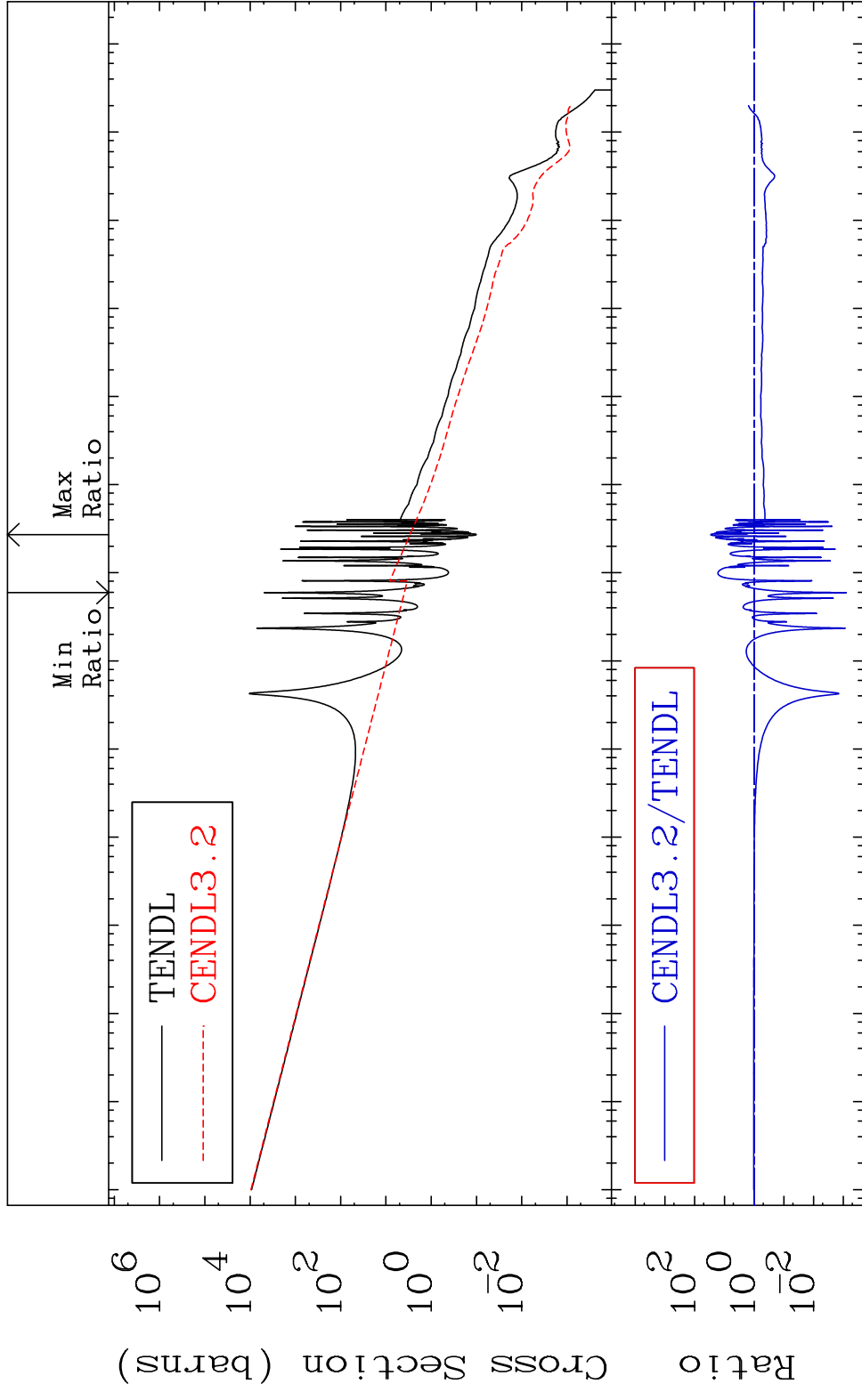


MAT 5452

54-Xe-133

(n,  $\gamma$ )

Cross Section -99.92 To 2795. %

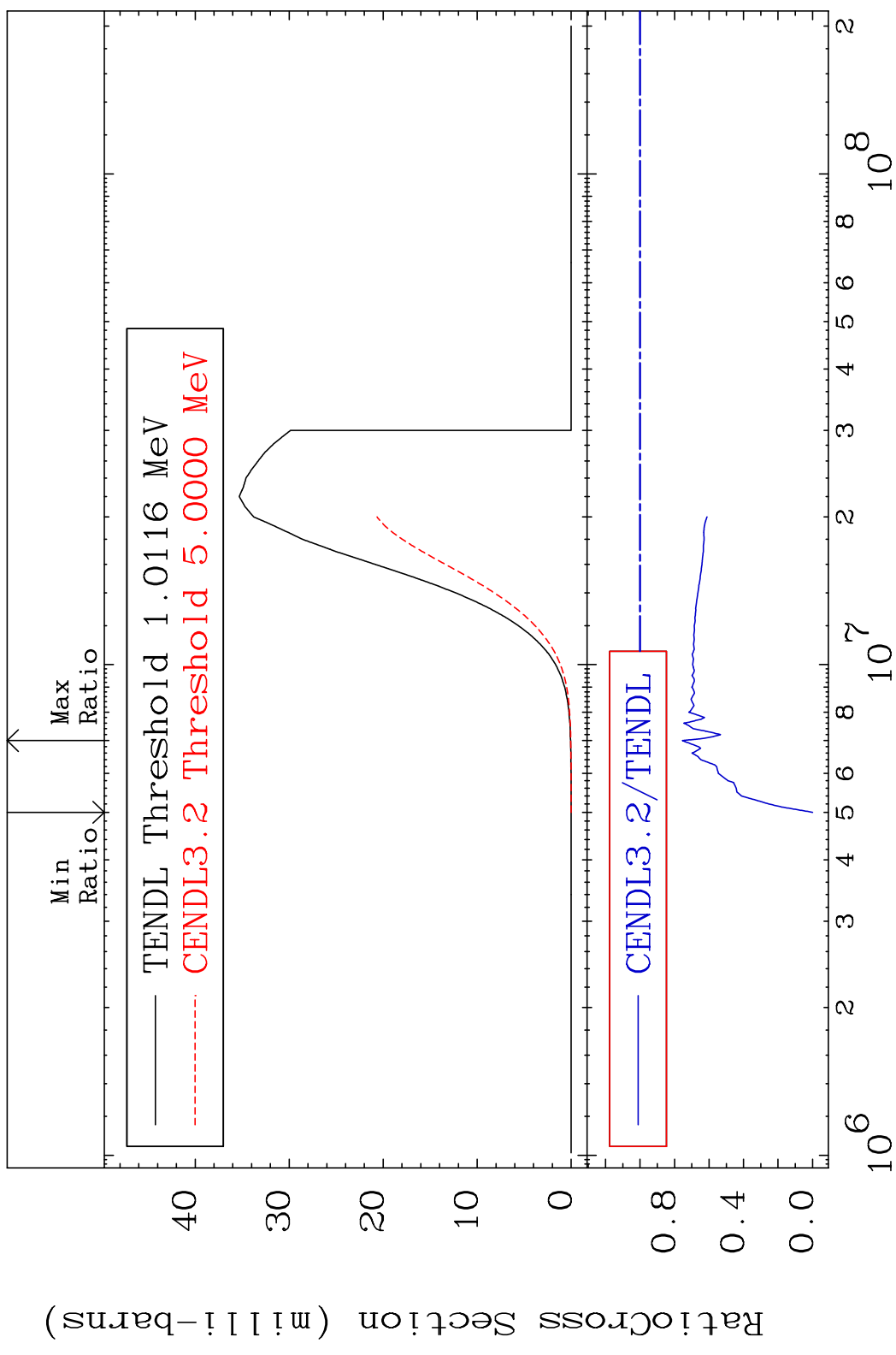


MAT 5452

(n,p)

54-Xe-133

Cross Section -100.0 To -24.53%



29

Incident Energy (eV)

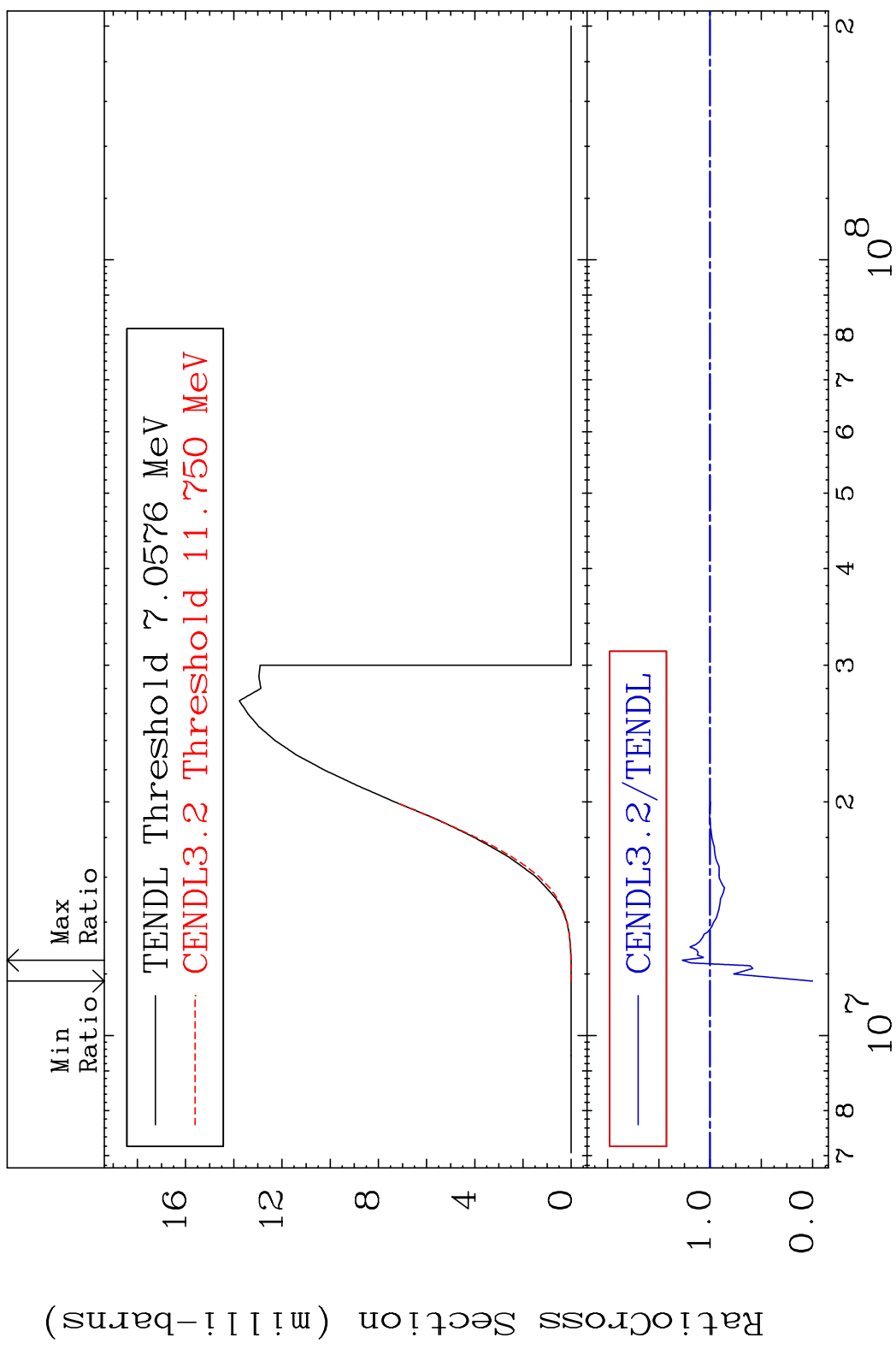
54-Xe-133

MAT 5452

(n,d)

54-Xe-133

Cross Section -100.0 To 27.02 %



30

Incident Energy (eV)

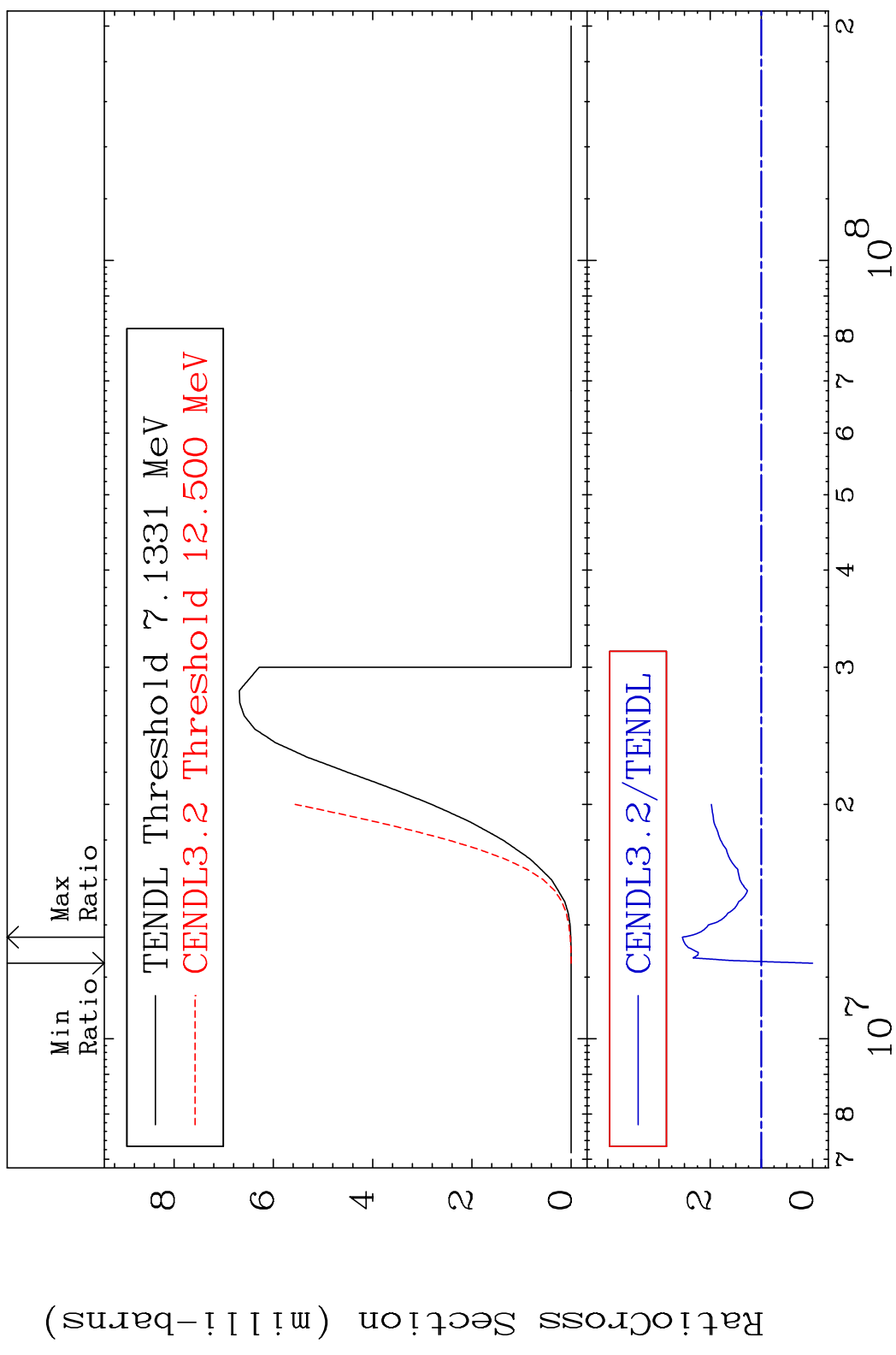
54-Xe-133

MAT 5452

(n, t)

54-Xe-133

Cross Section -100.0 To 154.2 %



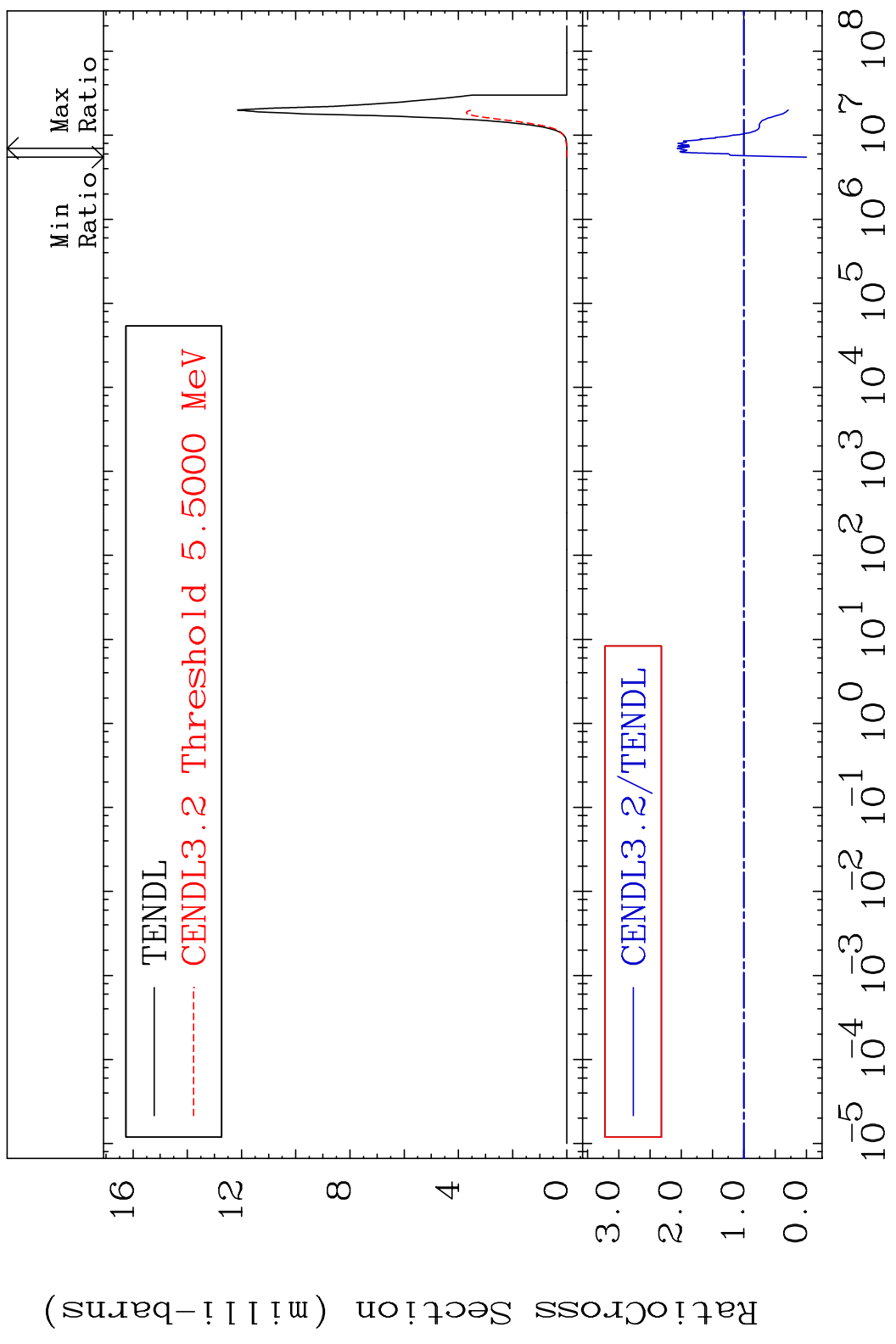


MAT 5452

(n,  $\alpha$ )

54-Xe-133

Cross Section -100.0 To 106.6 %



32

Incident Energy (eV)

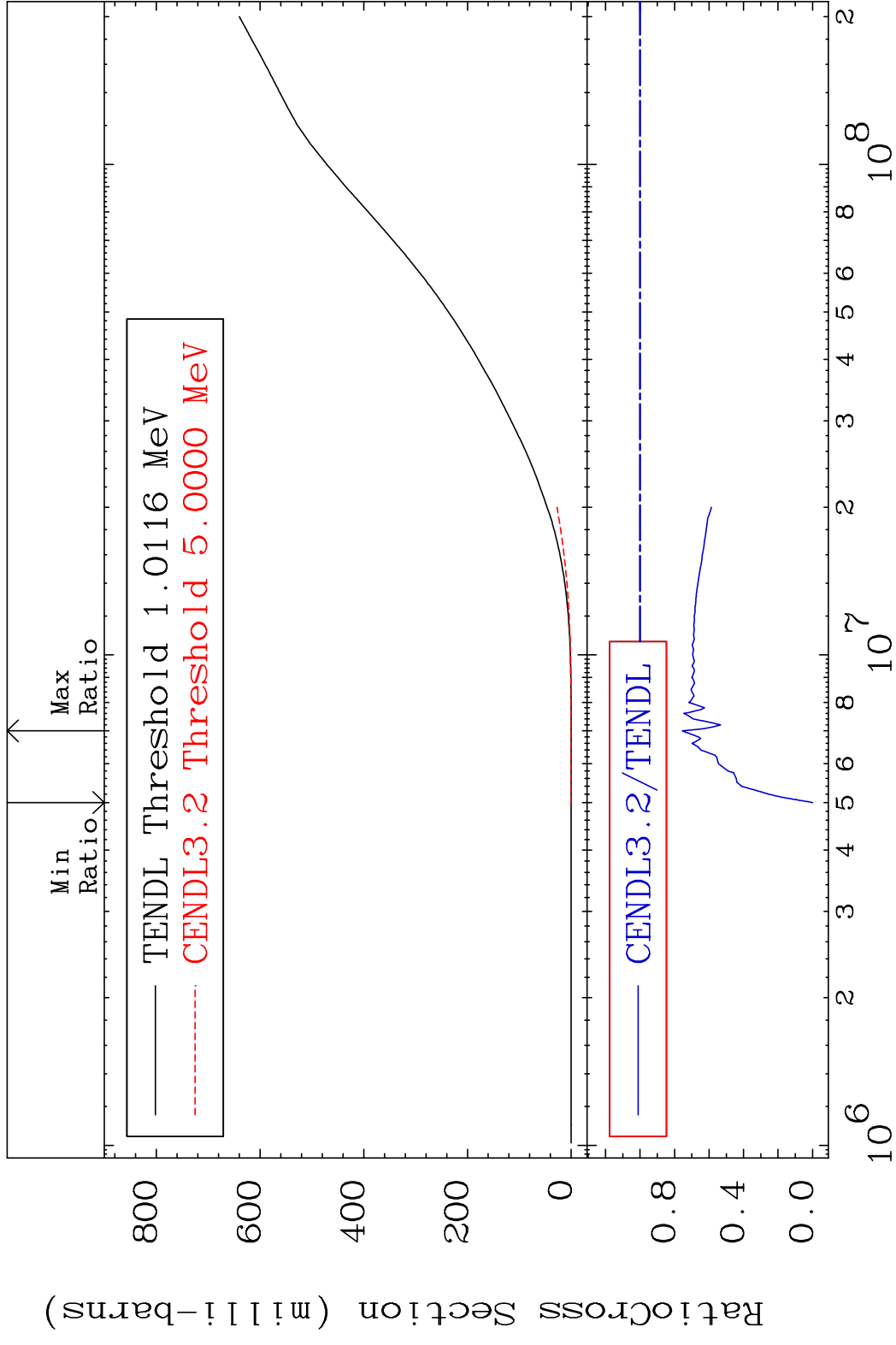
54-Xe-133

MAT 5452

Hydrogen Production

54-Xe-133

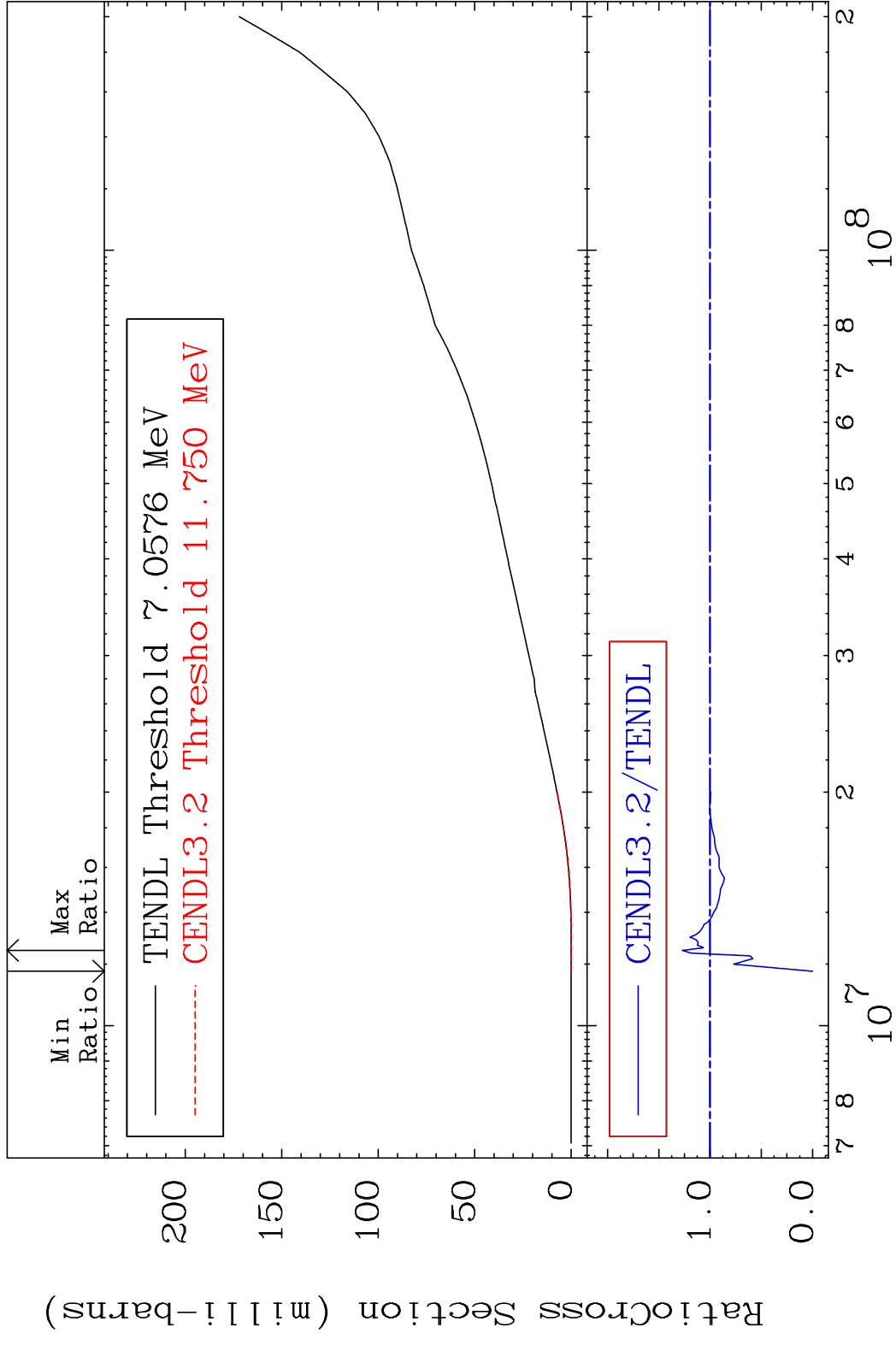
Cross Section -100.0 To -24.53%



33

Incident Energy (eV)

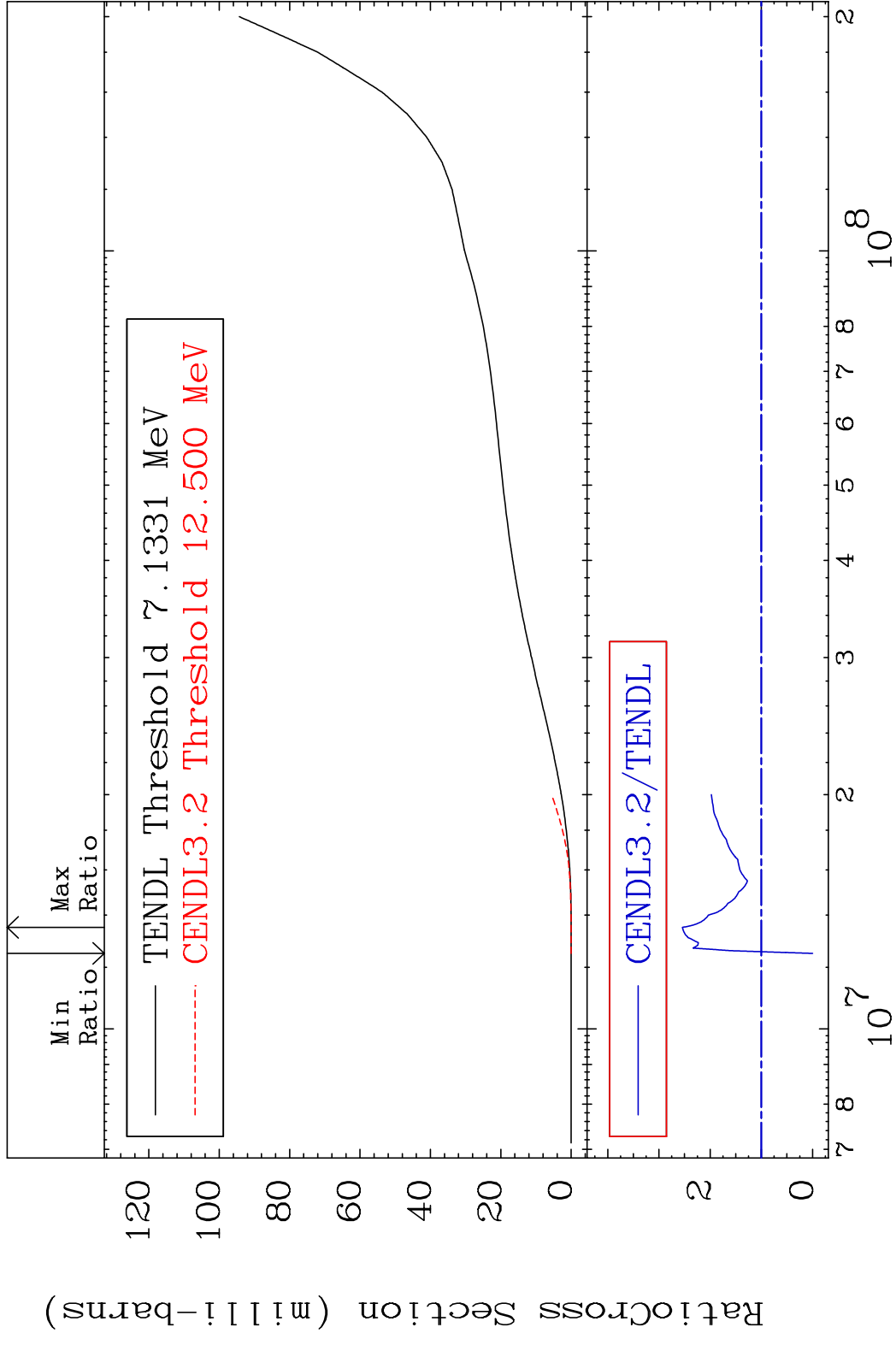
54-Xe-133



MAT 5452

Tritium Production 54-Xe-133

Cross Section -100.0 To 154.2 %



35

Incident Energy (eV)

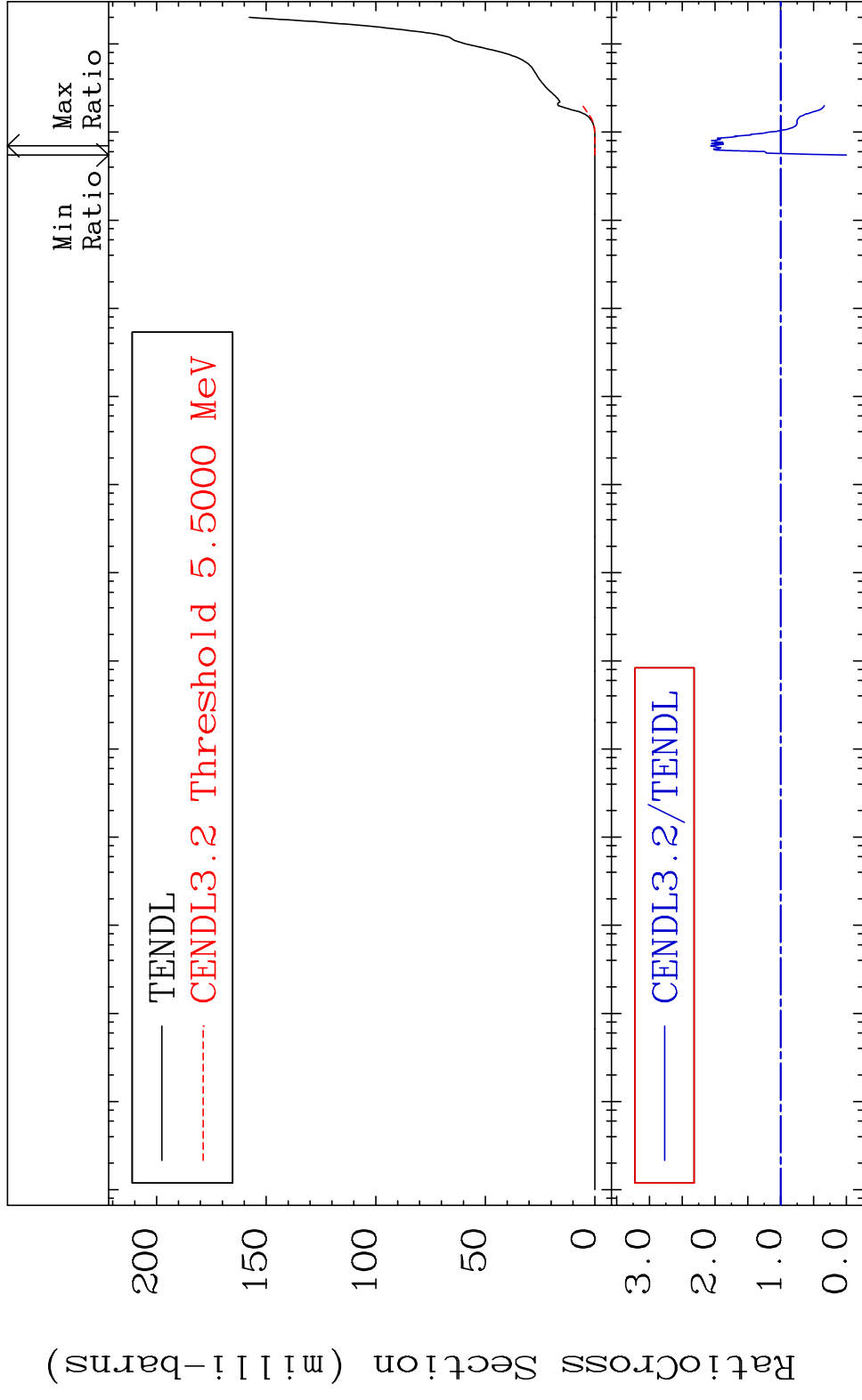
54-Xe-133

MAT 5452

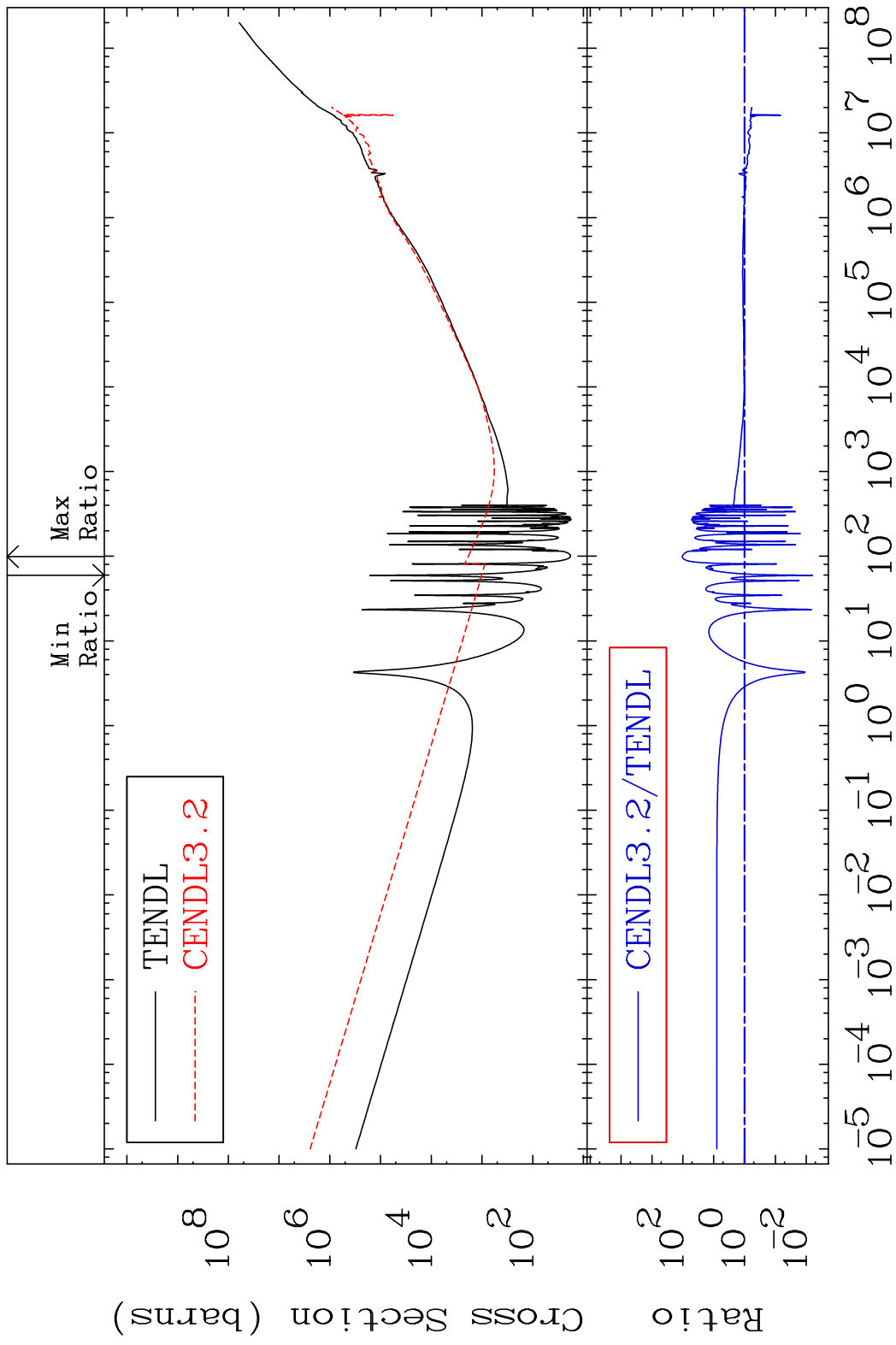
He-4 Production

54-Xe-133

Cross Section -100.0 To 106.6 %

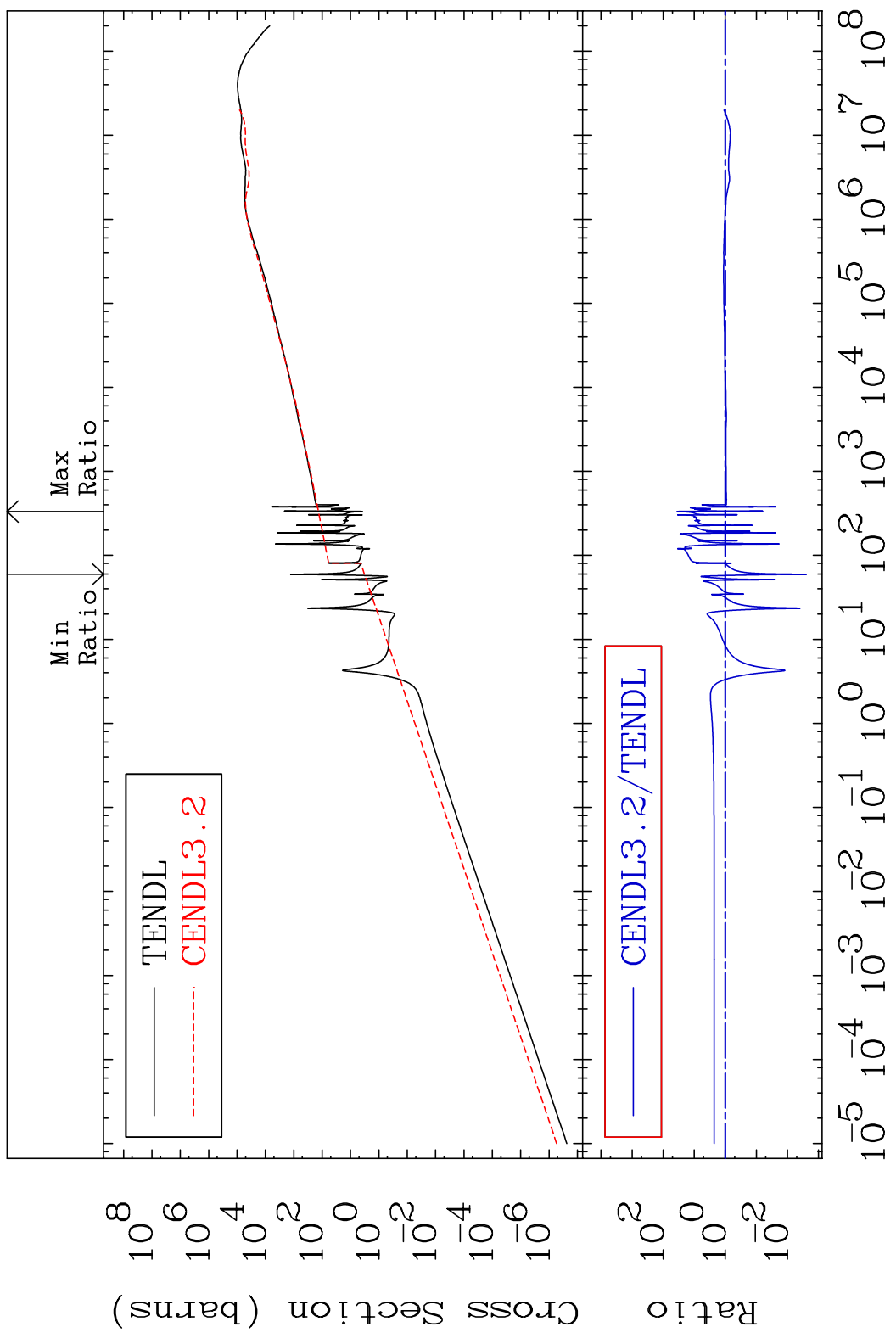


MAT 5452 Kerma total (eV-barns) 54-Xe-133  
 Cross Section -99.38 To 9999. %

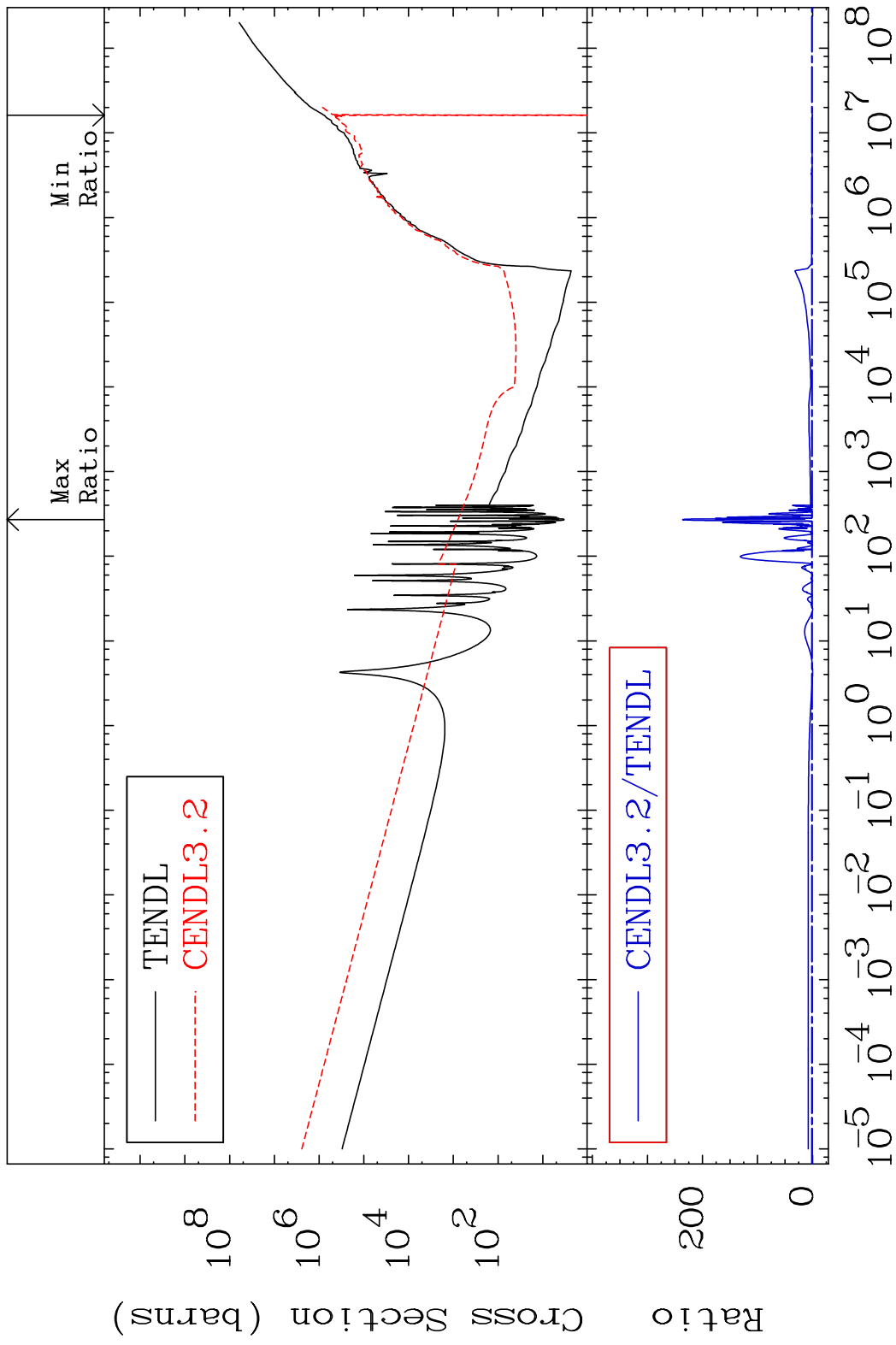


MAT 5452

Kerma elastic Cross Section -99.76 To 3435. %  
54-Xe-133

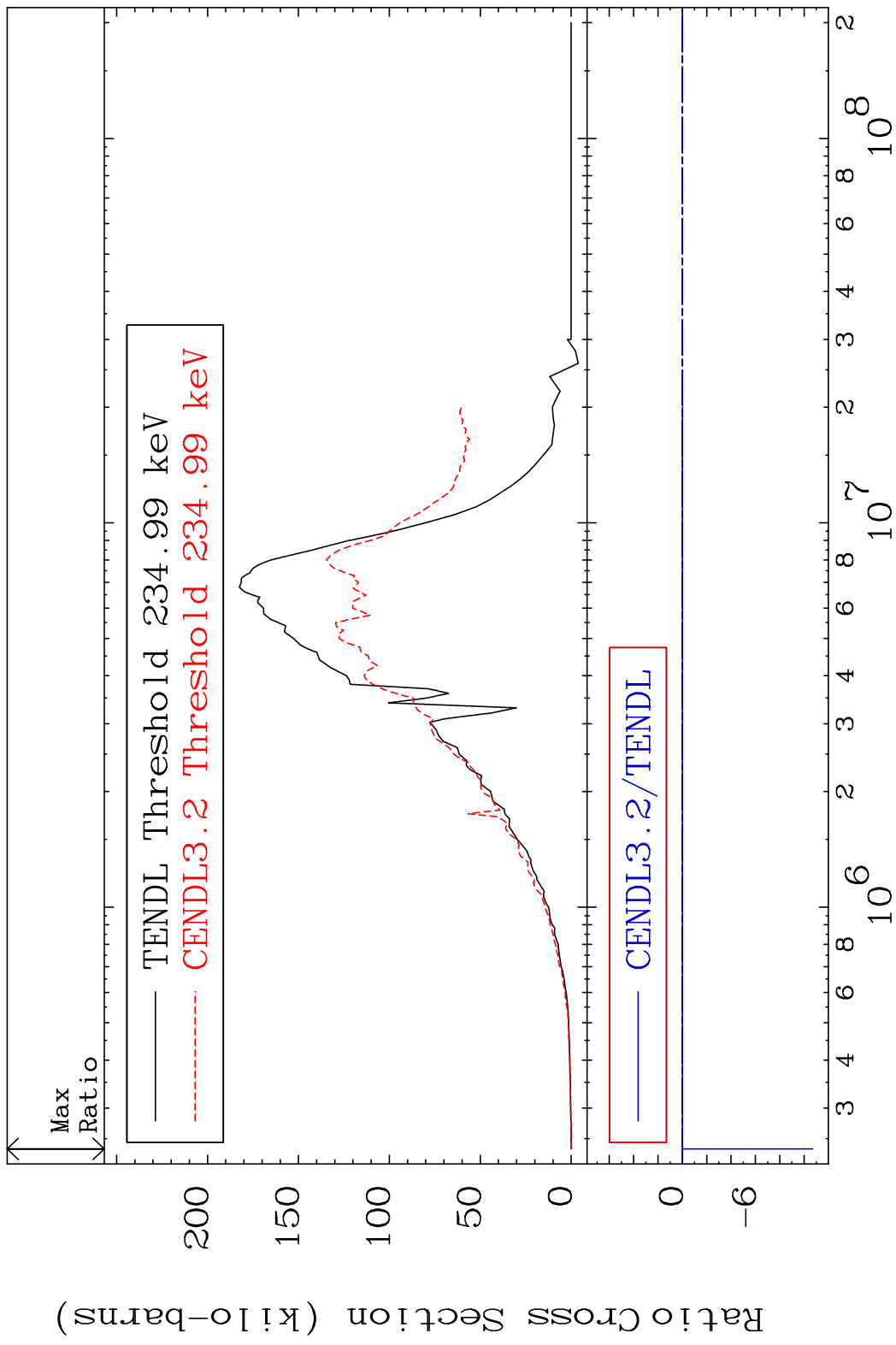


MAT 5452 Kerma non-elastic (all but mt2) 54-Xe-133  
 Cross Section -100.6 To 9999. %



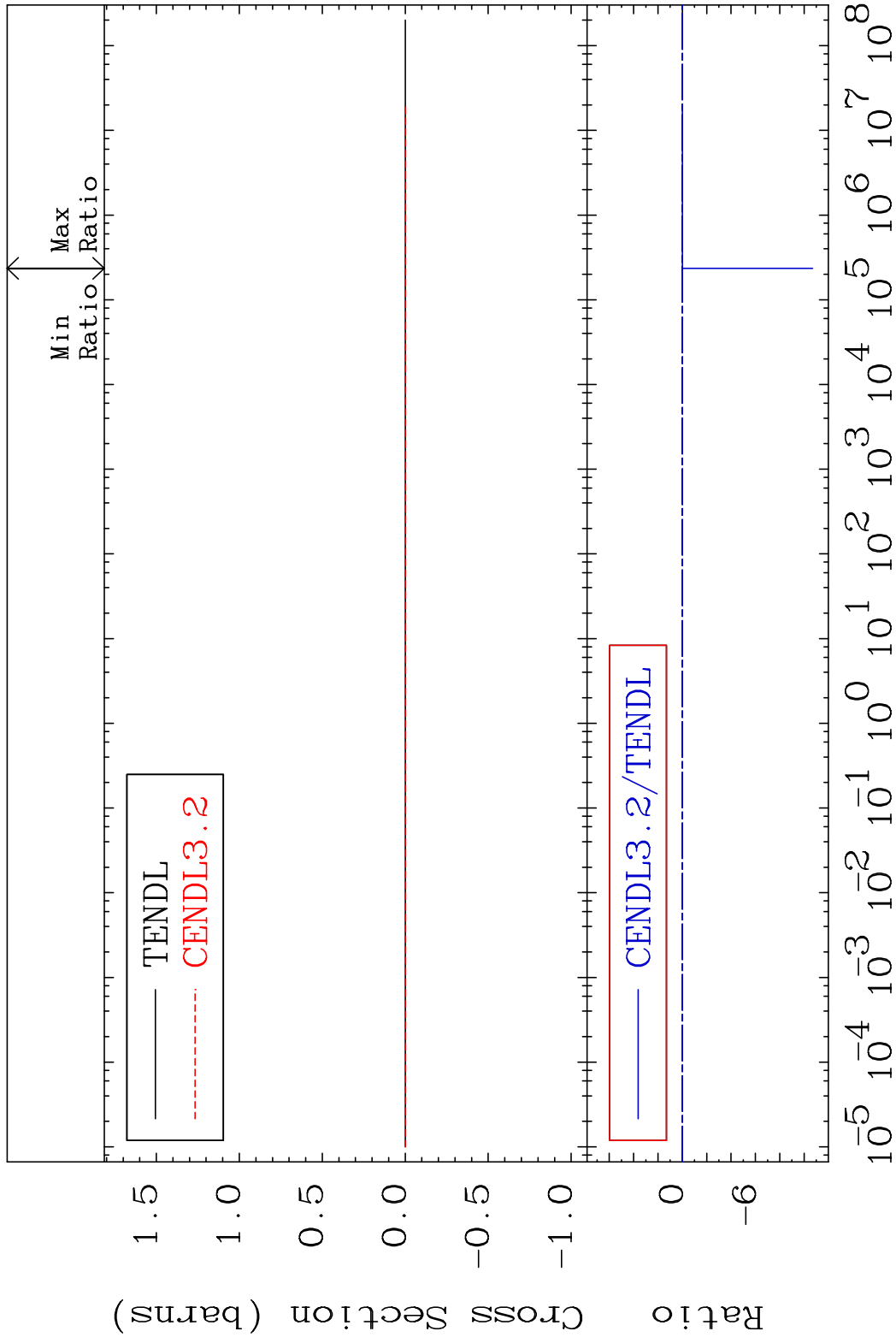


MAT 5452 Kerma inelastic (mt51-91) 54-Xe-133  
Cross Section -9999. To 9999. %



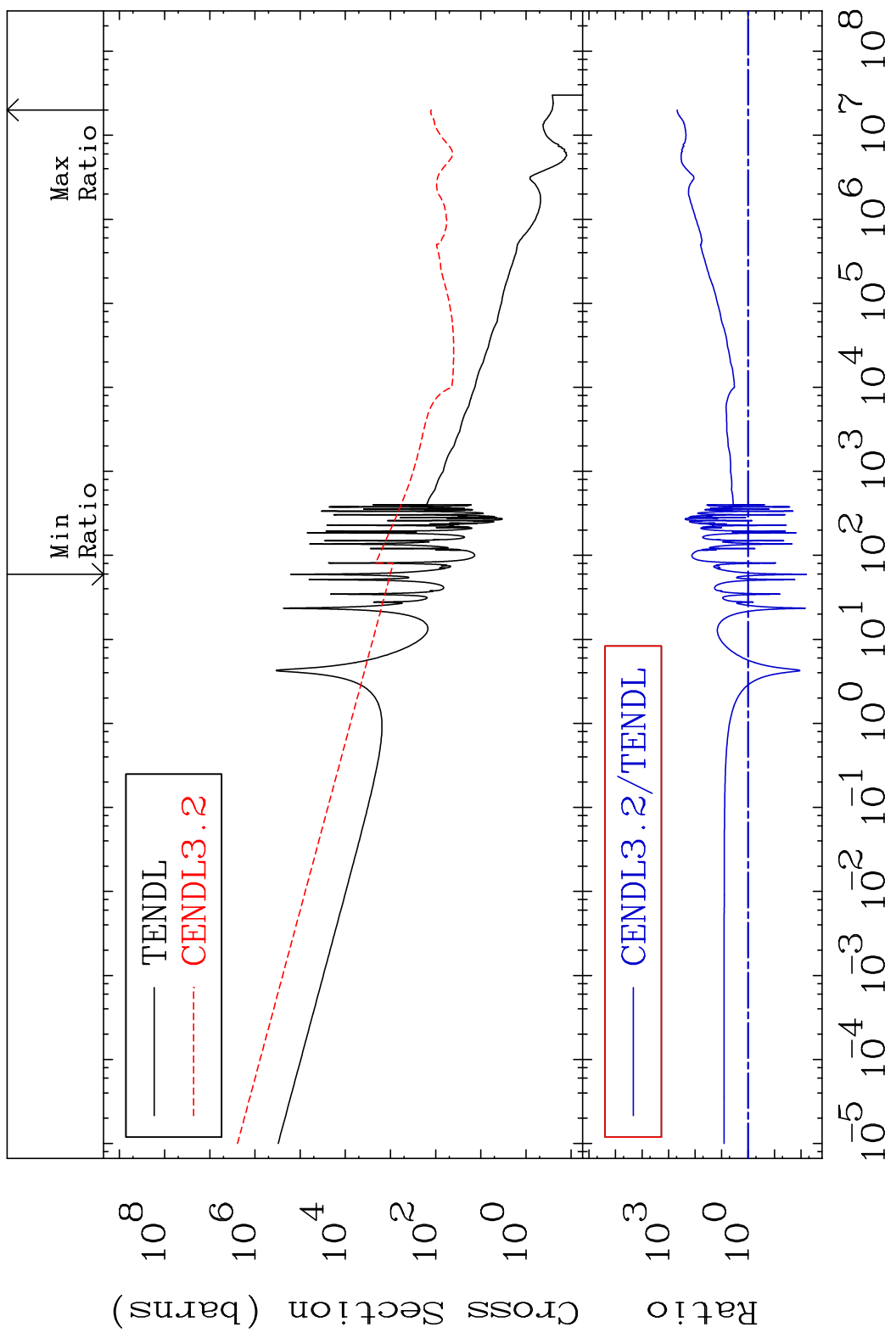
40 Incident Energy (eV) 54-Xe-133

MAT 5452 Kerma fission (mt18 or mt19-20-21-38) 54-Xe-133  
 Cross Section -9999. To 9999. %



MAT 5452

Kerma capture (mt102) 54-Xe-133  
Cross Section -99.38 To 9999. %



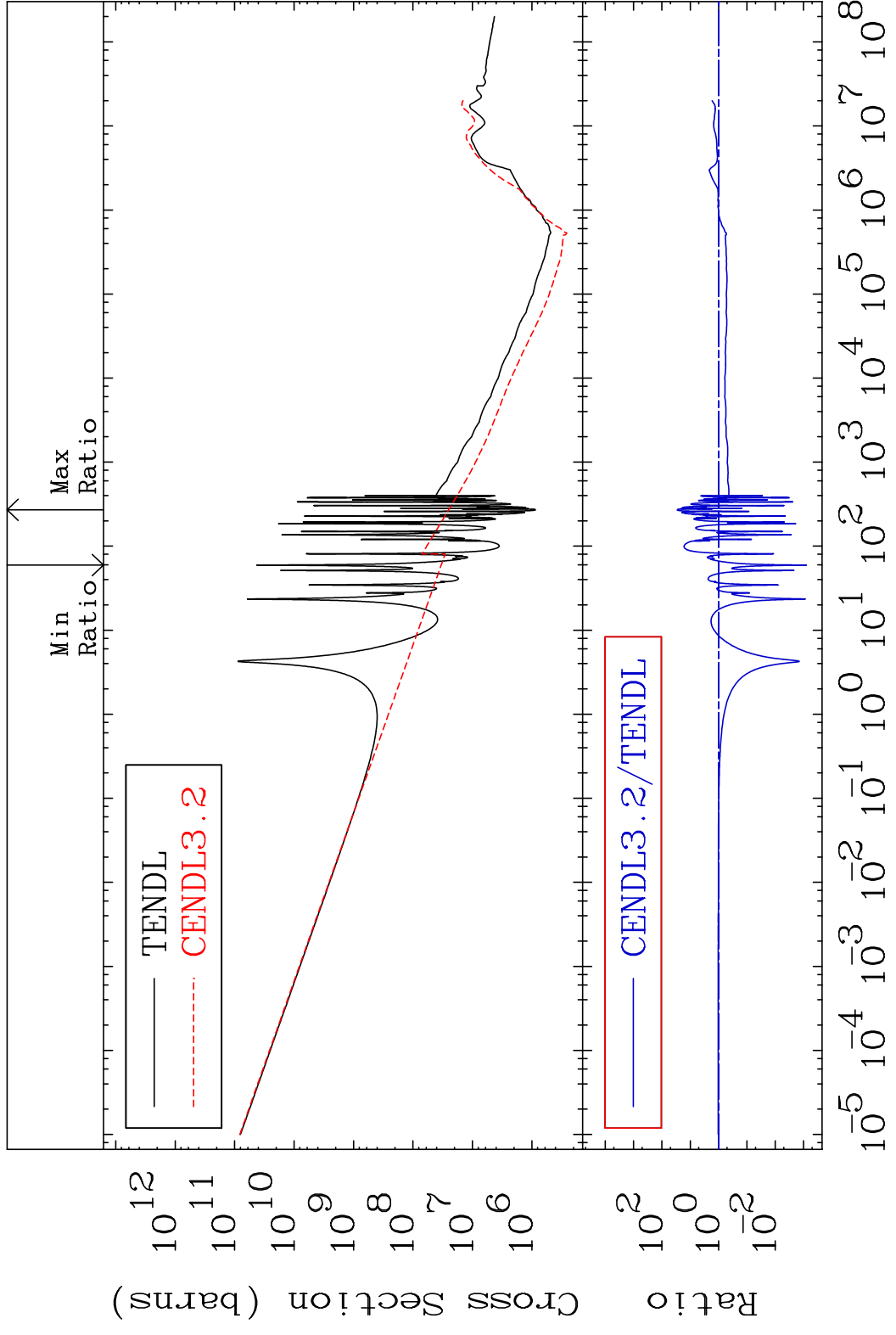
42

Incident Energy (eV)

54-Xe-133

MAT 5452

Total photon (eV-barns) 54-Xe-133  
Cross Section -99.92 To 2793. %

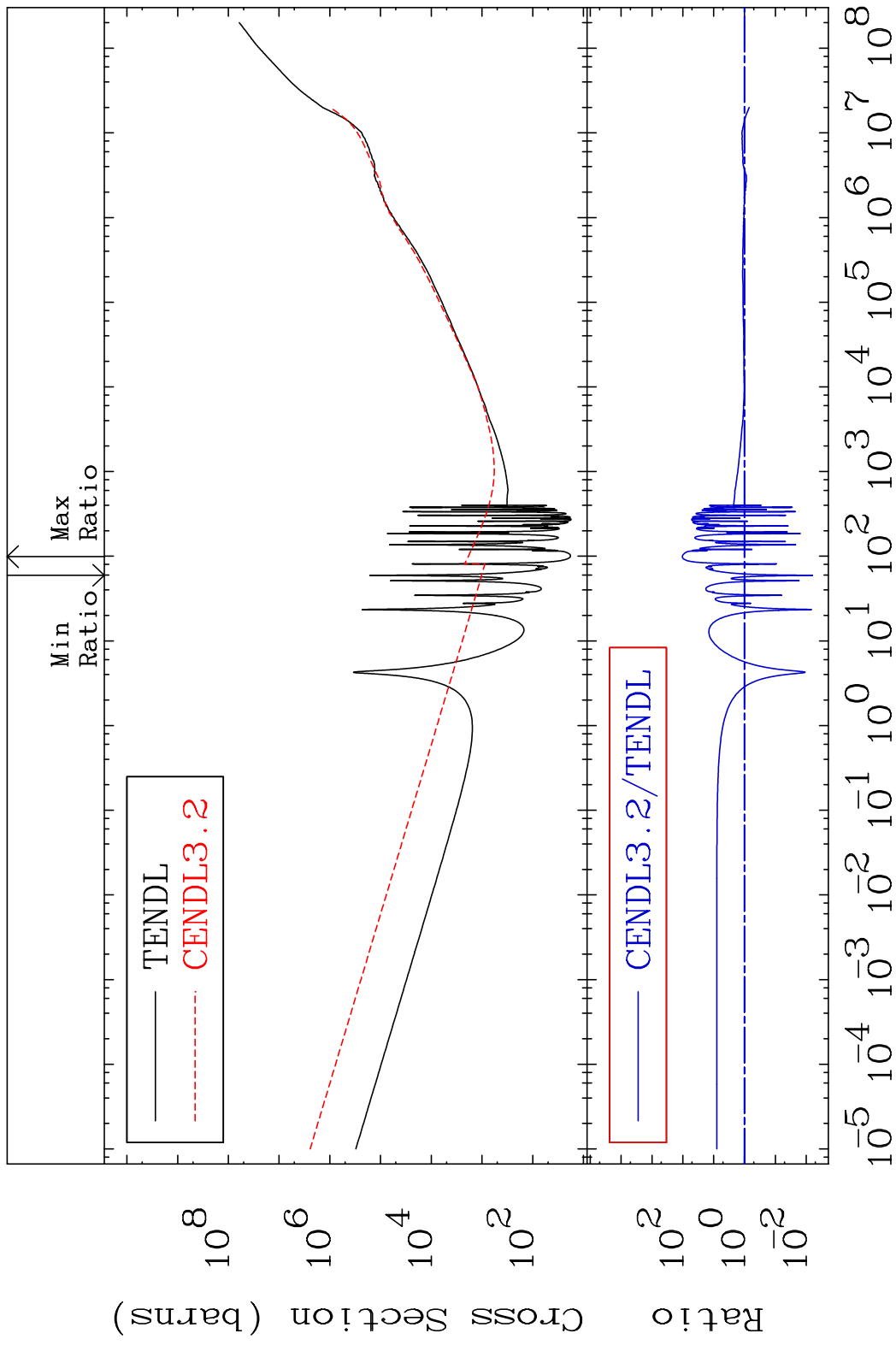


43

Incident Energy (eV)

54-Xe-133

MAT 5452 Total kinematic kerma (high limit) 54-Xe-133  
 Cross Section -99.38 To 9999. %

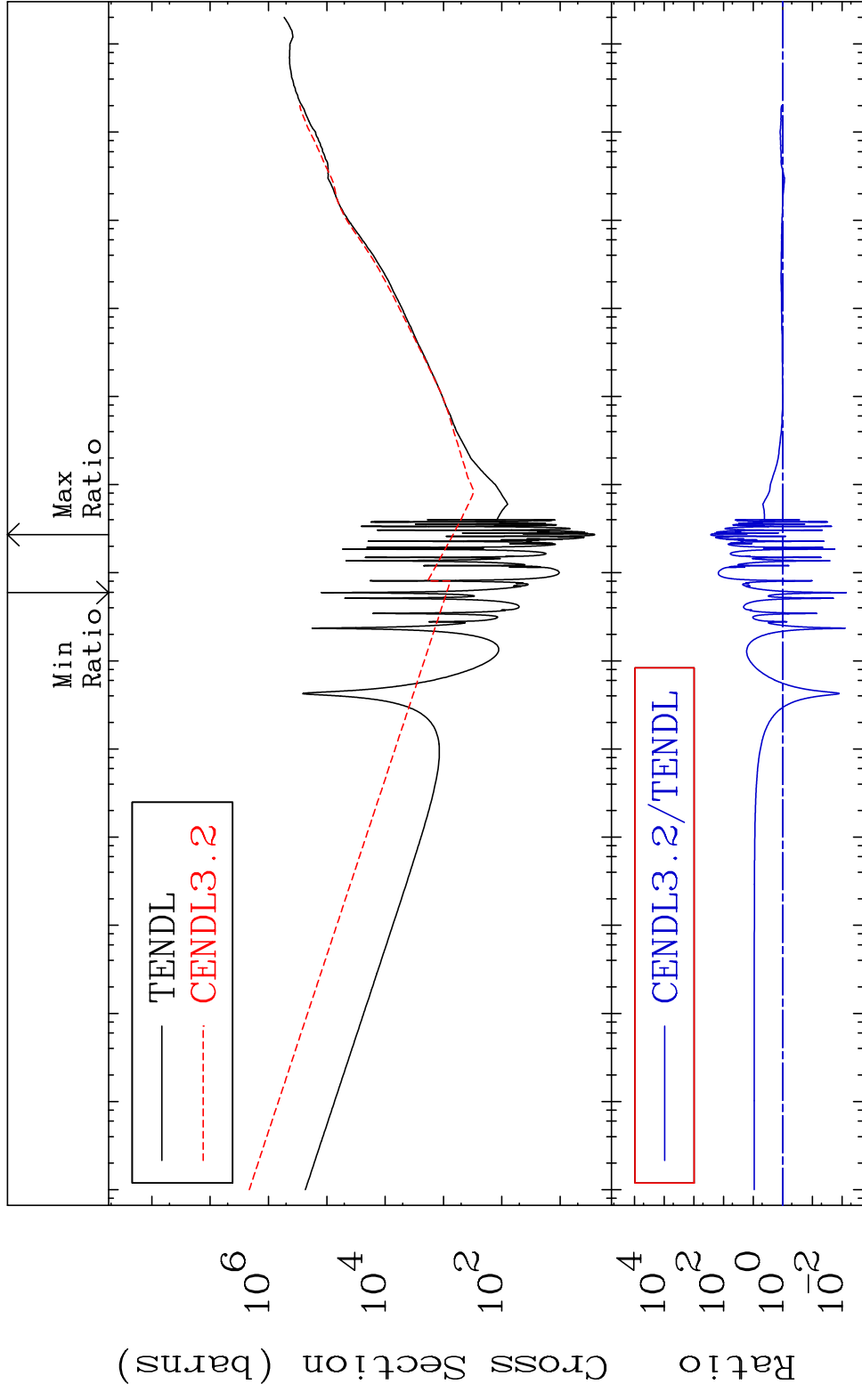


MAT 5452

Dpa total (eV-barns)

54-Xe-133

Cross Section -99.28 To 9999. %



45

Incident Energy (eV)

54-Xe-133

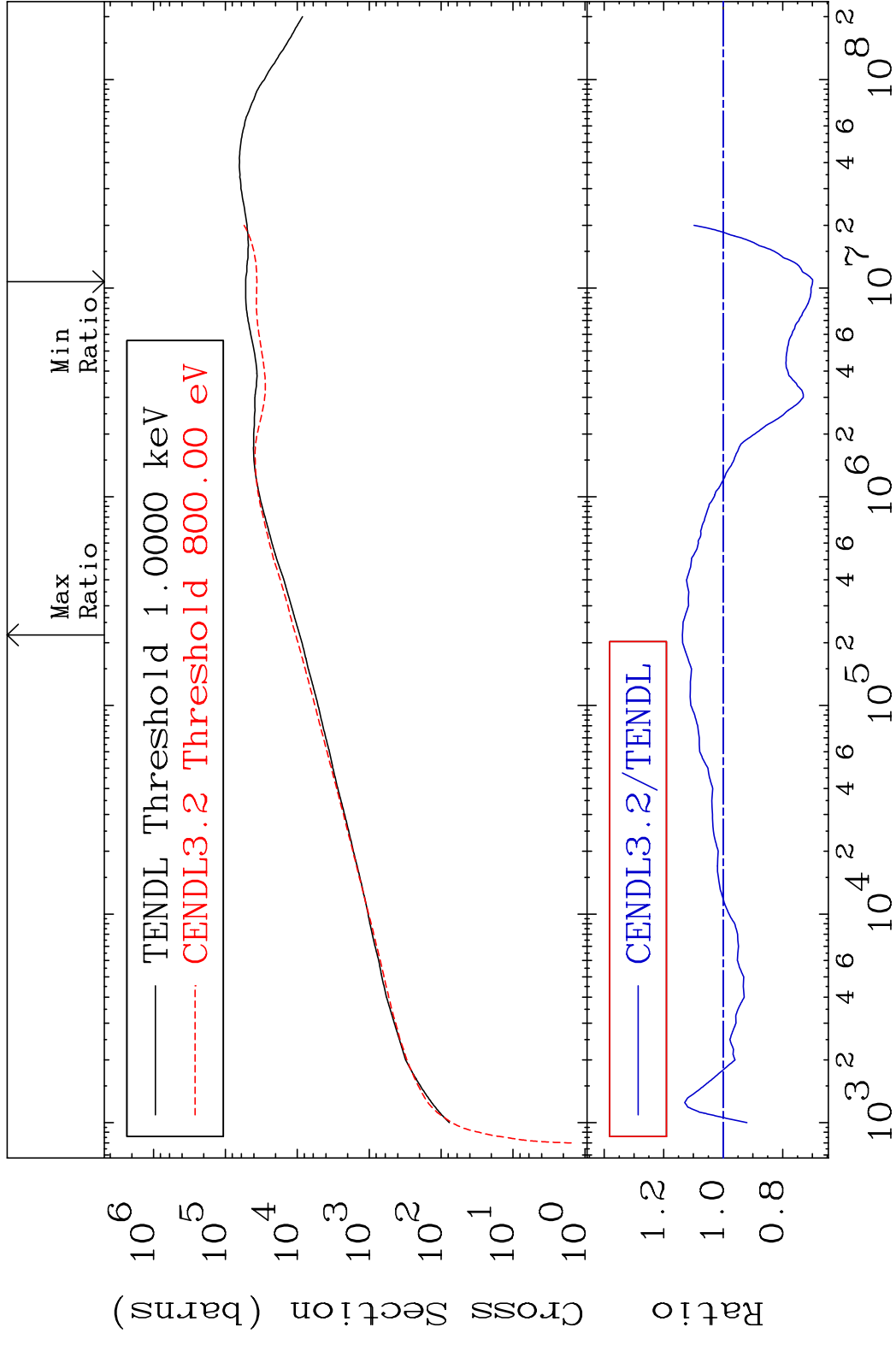
MAT 5452

Dpa elastic (mt2)

54-Xe-133

Cross Section

-30.07 To 13.73 %

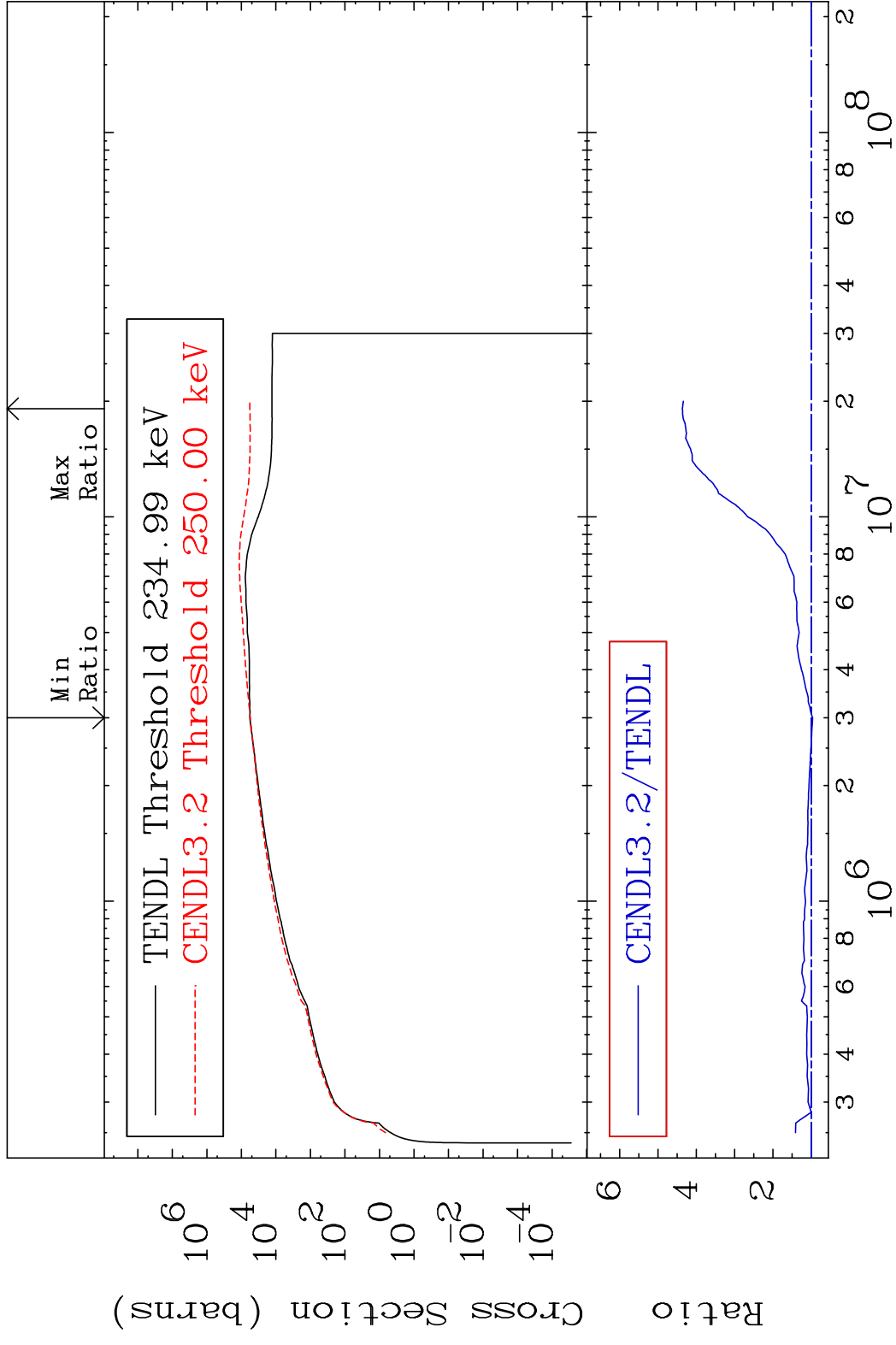


46

Incident Energy (eV)

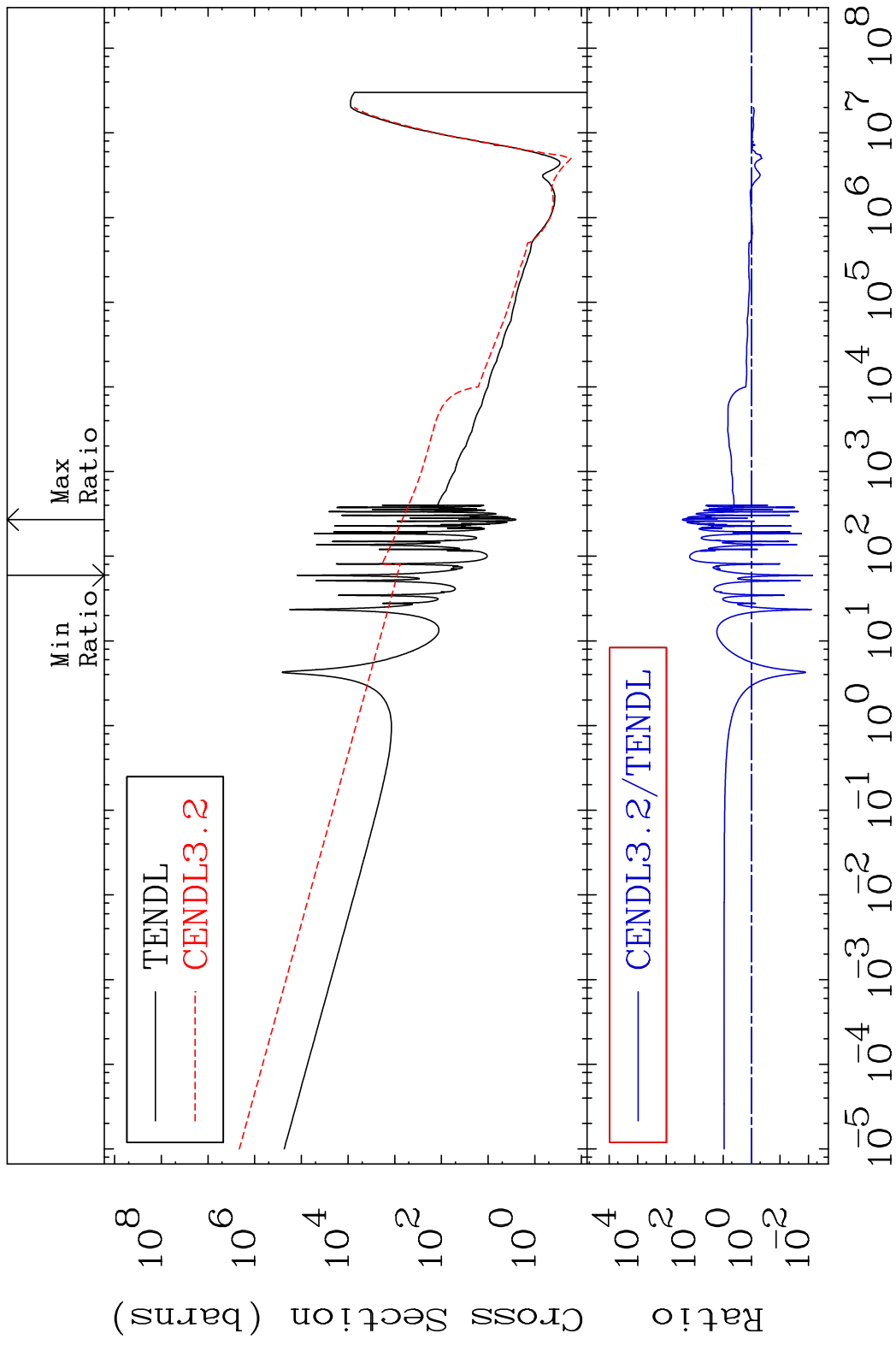
54-Xe-133

MAT 5452 Dpa inelastic (mt51-91) 54-Xe-133  
 Cross Section -3.301 To 336.5 %





MAT 5452 Dpa disappearance (mt102 -120) 54-Xe-133  
 Cross Section -99.28 To 9999. %



MAT 5452 (n,d):53-I -132m3 54-Xe-133  
 Radionuclide Production Cross Section to 9999. %

