

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

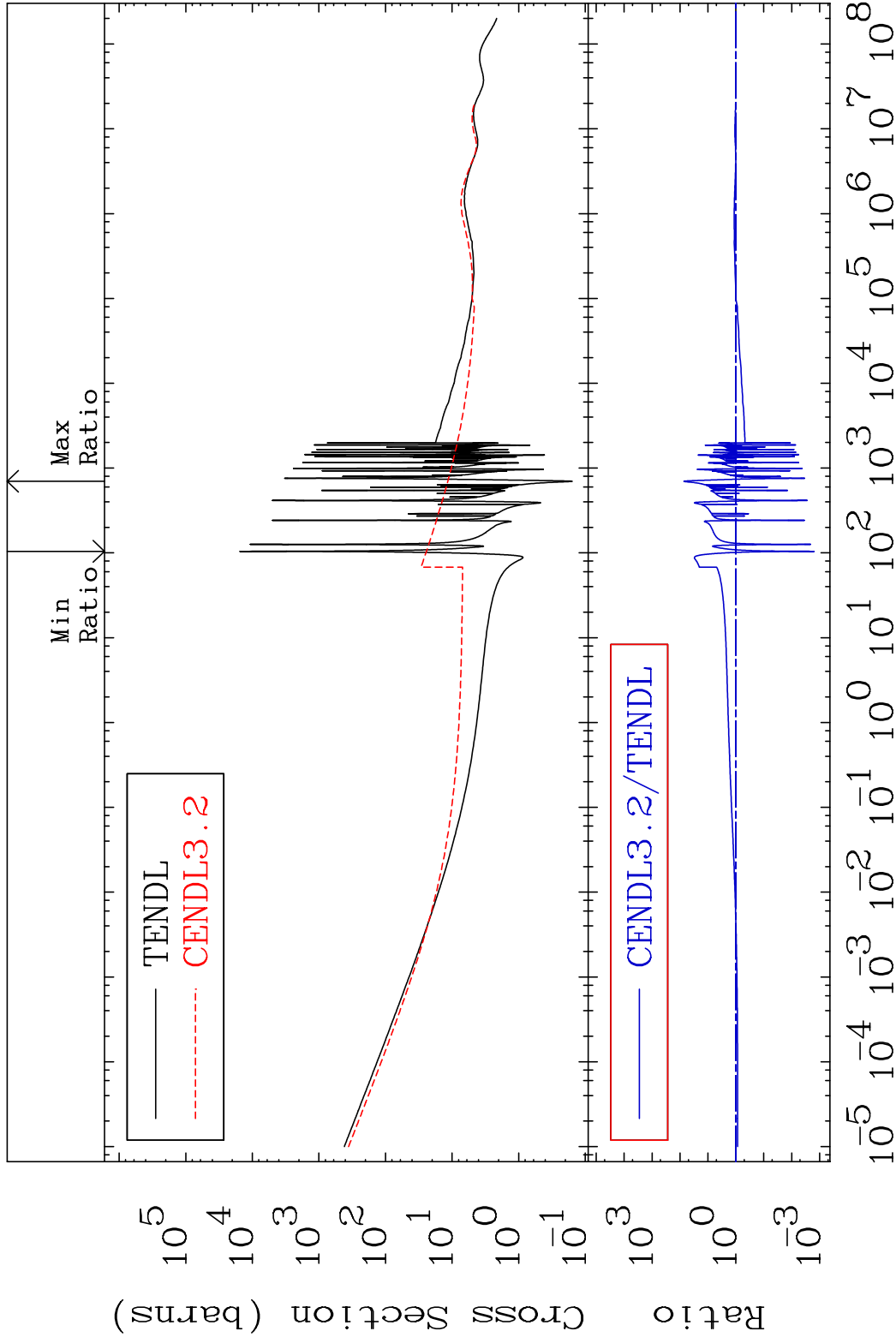
Press Mouse Button to Start

MAT 5631

Total

56-Ba-132

Cross Section -99.84 To 7300. %



1

Incident Energy (eV)

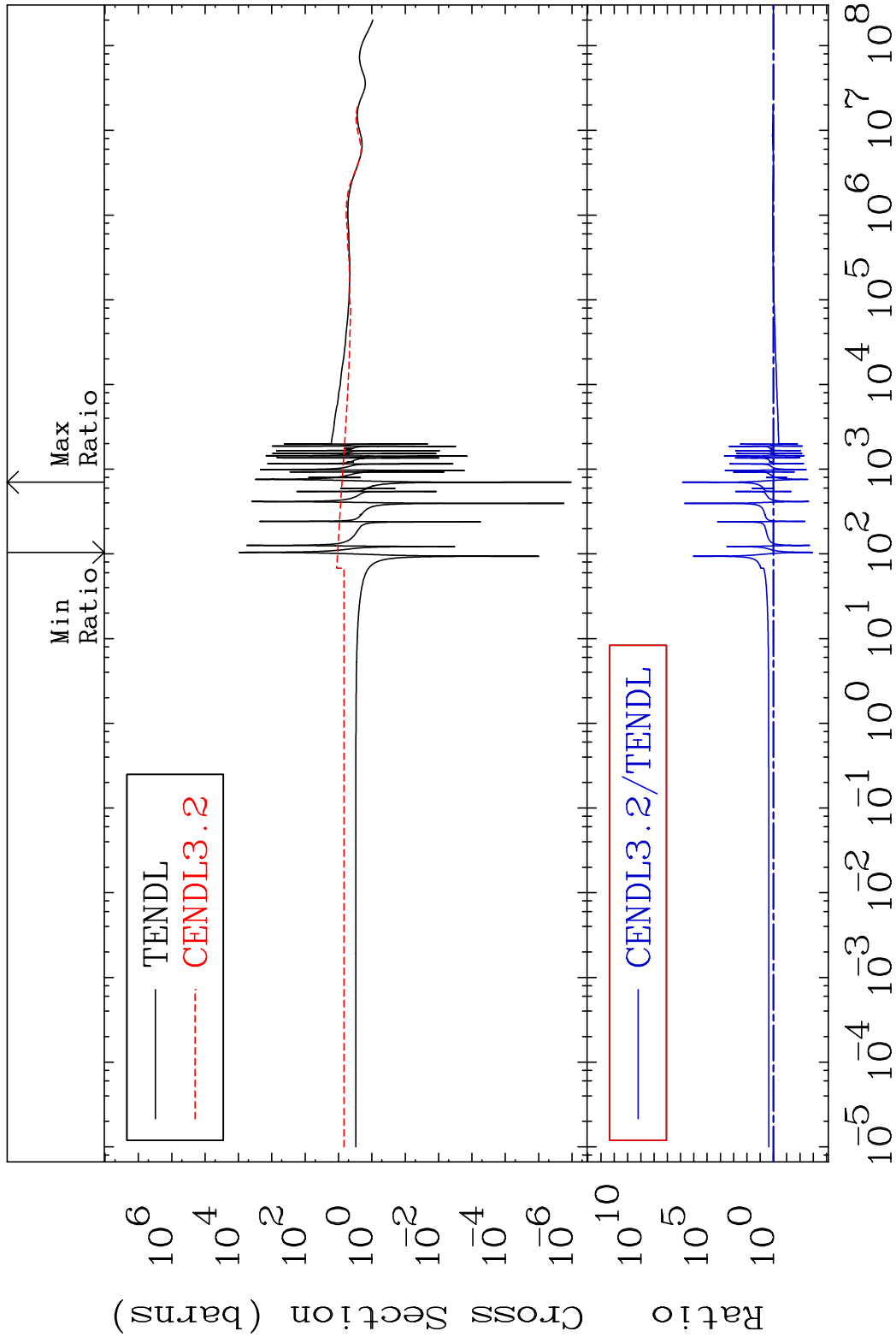
56-Ba-132

MAT 5631

Elastic

56-Ba-132

Cross Section -99.89 To 9999. %

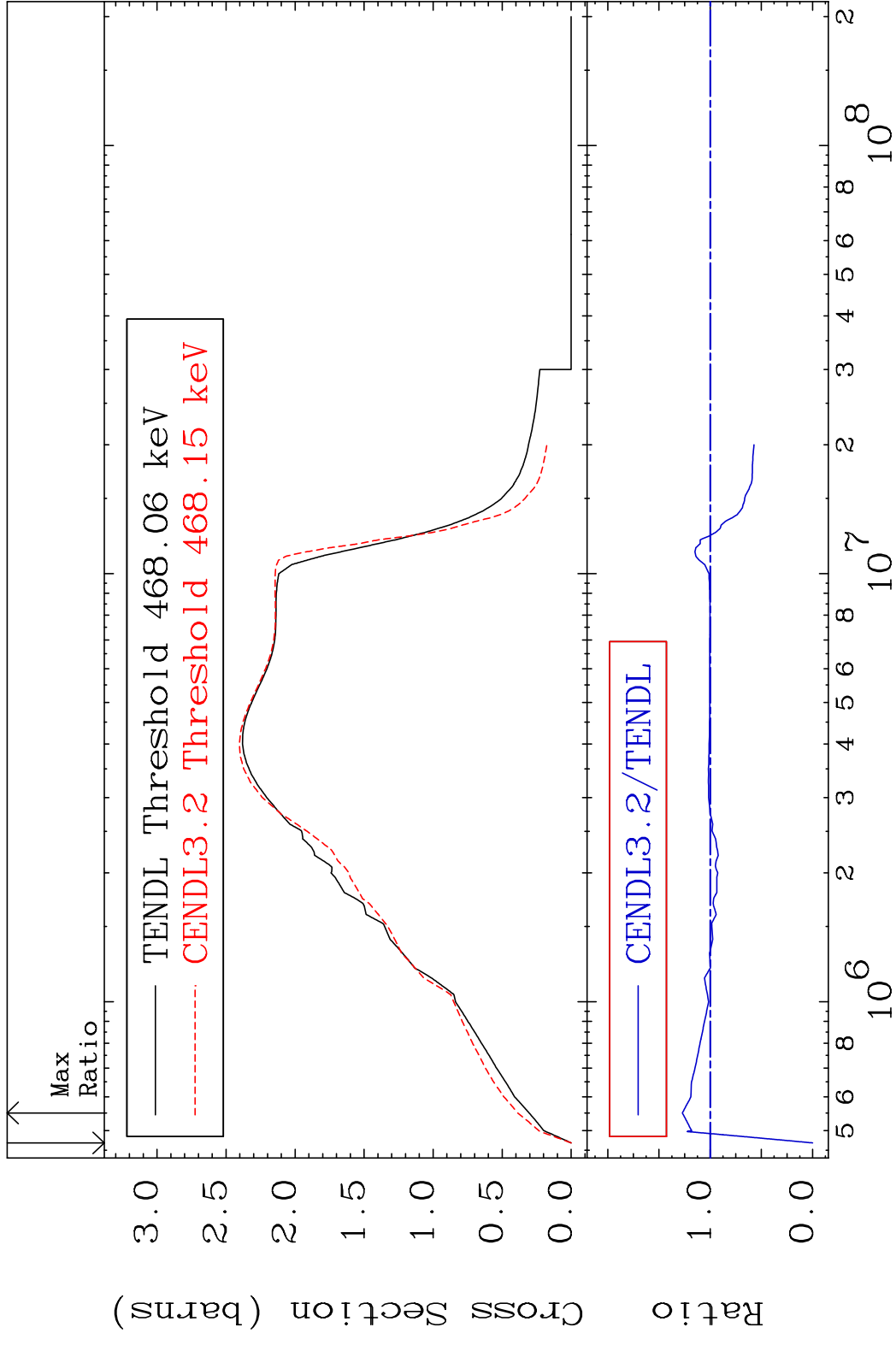


2

Incident Energy (eV)

56-Ba-132

MAT 5631 Inelastic 56-Ba-132  
 Cross Section -100.0 To 27.20 %



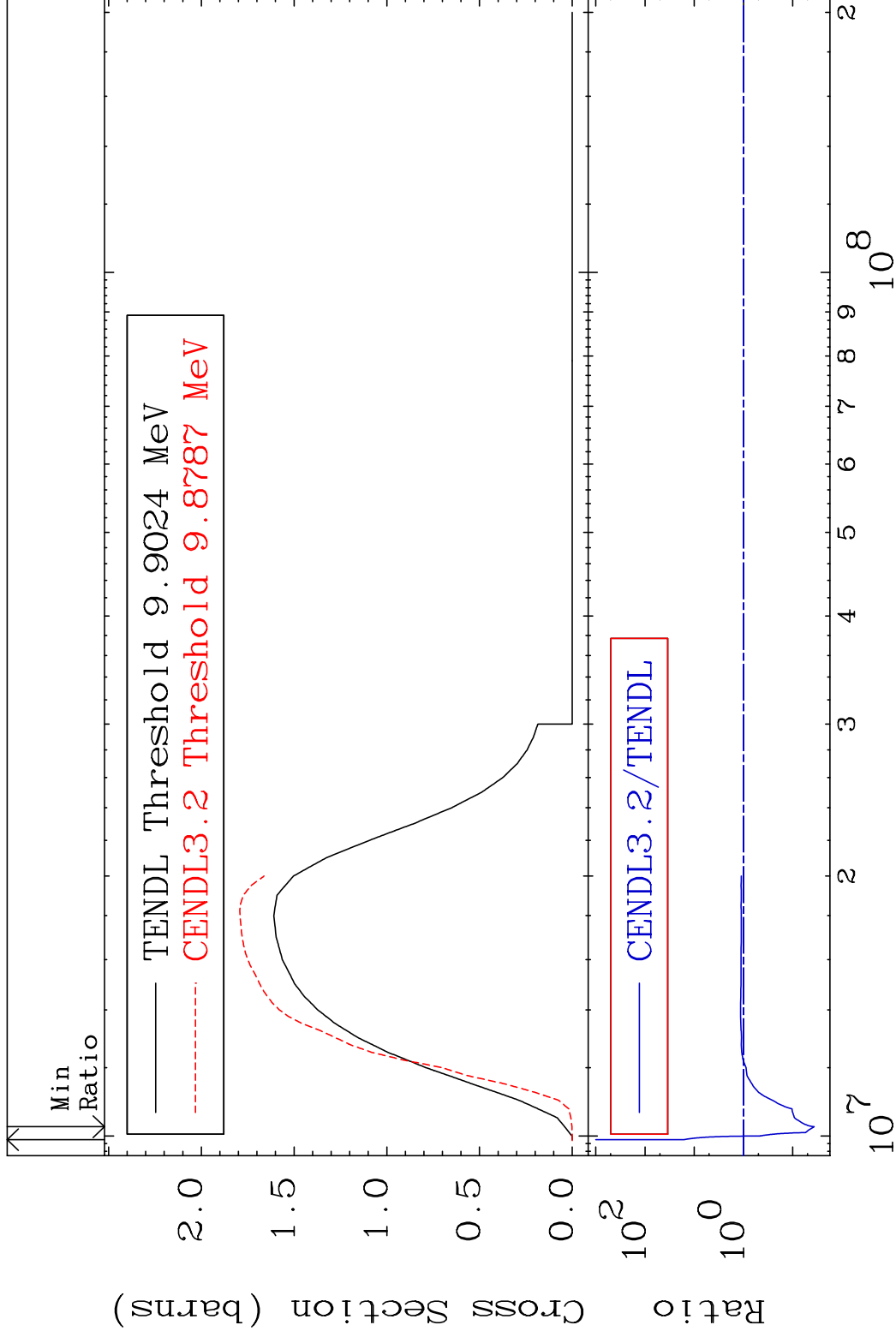
3 Incident Energy (eV) 56-Ba-132

MAT 5631

(n,2n)

56-Ba-132

Cross Section -96.31 To 1544. %



4

Incident Energy (eV)

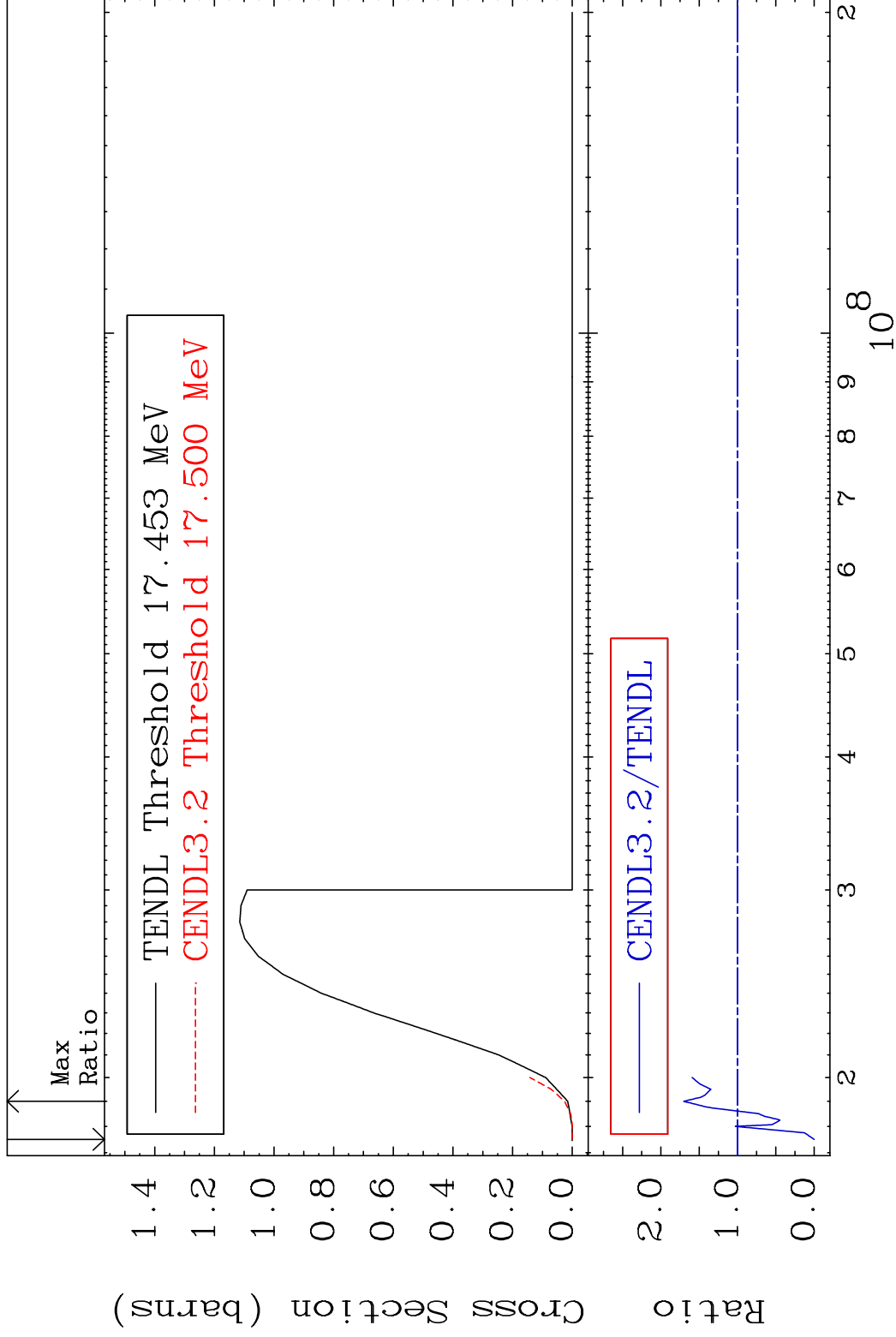
56-Ba-132

MAT 5631

(n,3n)

56-Ba-132

Cross Section -100.0 To 70.27 %



5

Incident Energy (eV)

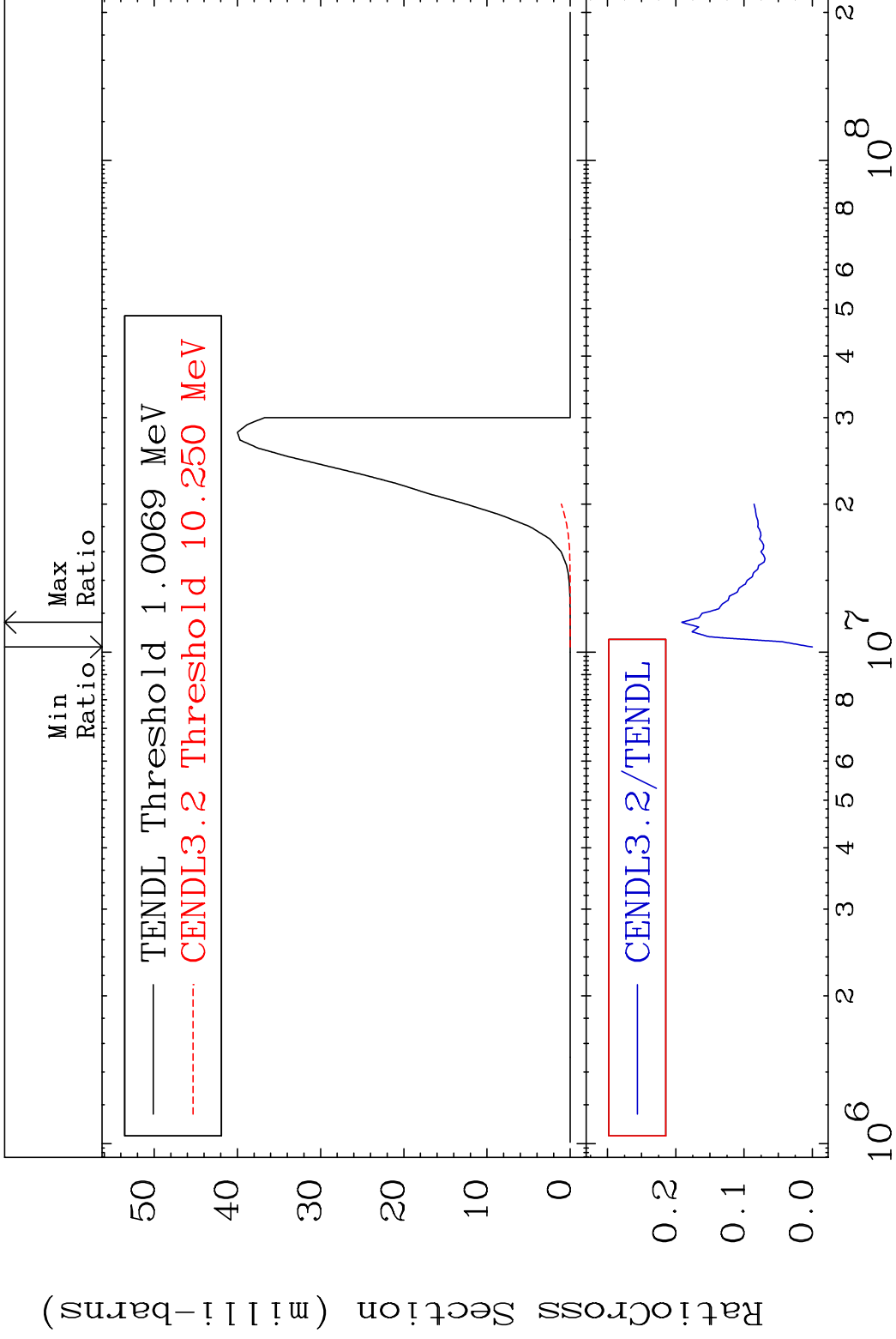
56-Ba-132

MAT 5631

(n, n')  $\alpha$

56-Ba-132

Cross Section -100.0 To -80.87%



6

Incident Energy (eV)

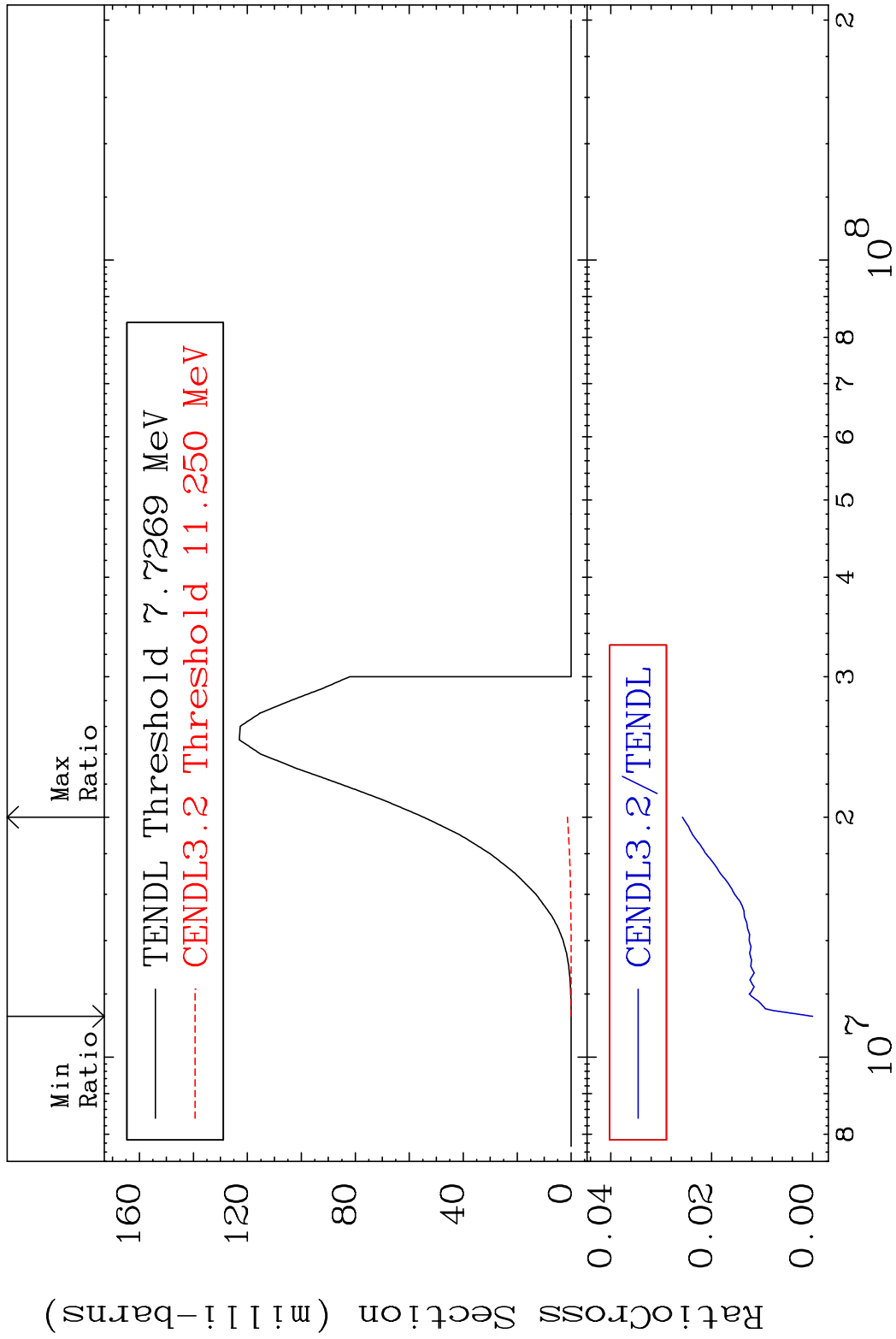
56-Ba-132

MAT 5631

56-Ba-132

(n, n') p

Cross Section -100.0 To -97.42%

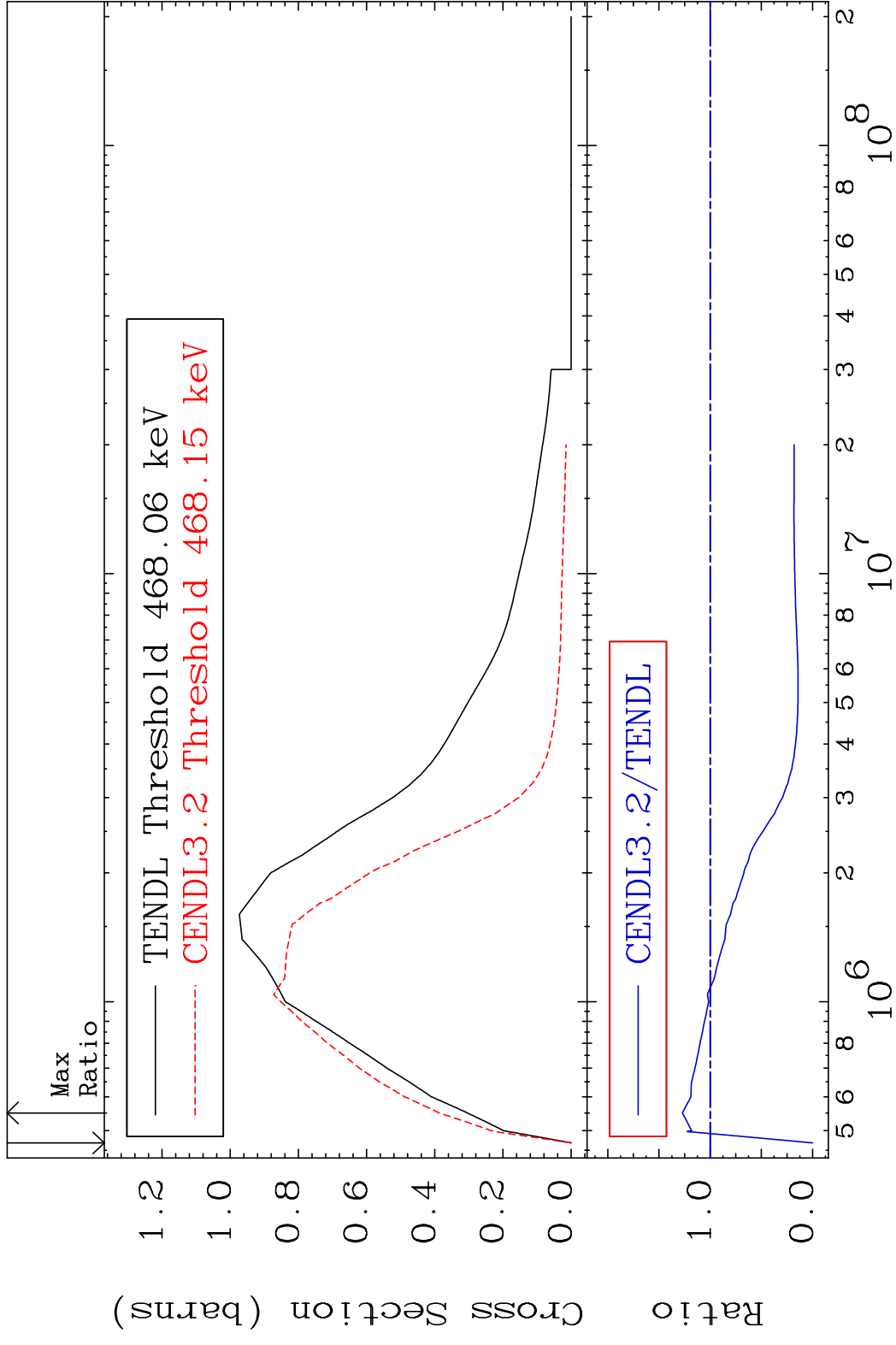


7

Incident Energy (eV)

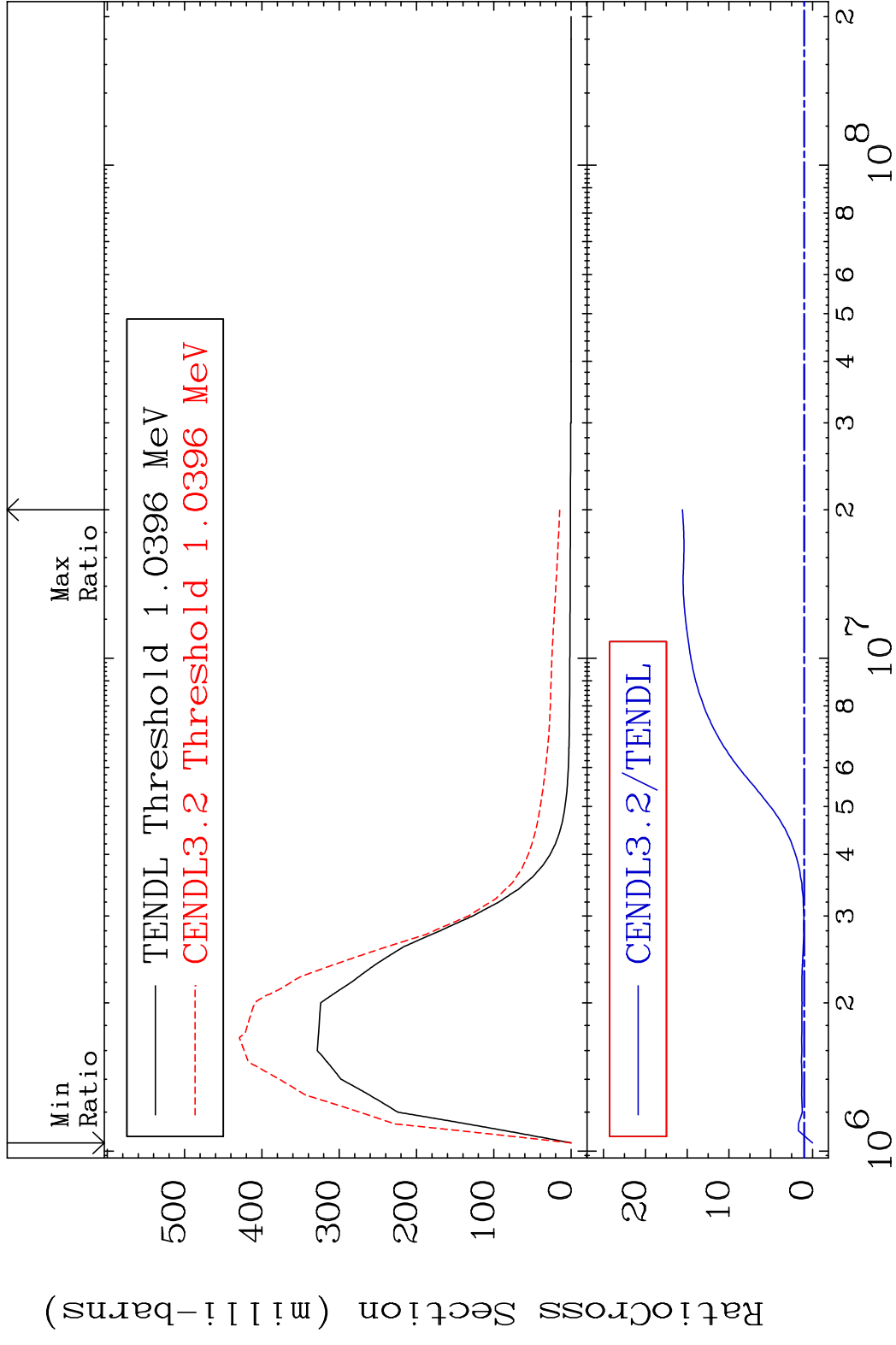
56-Ba-132

MAT 5631 MT= 51 (n, n') Level 56-Ba-132  
 Cross Section -100.0 To 27.20 %



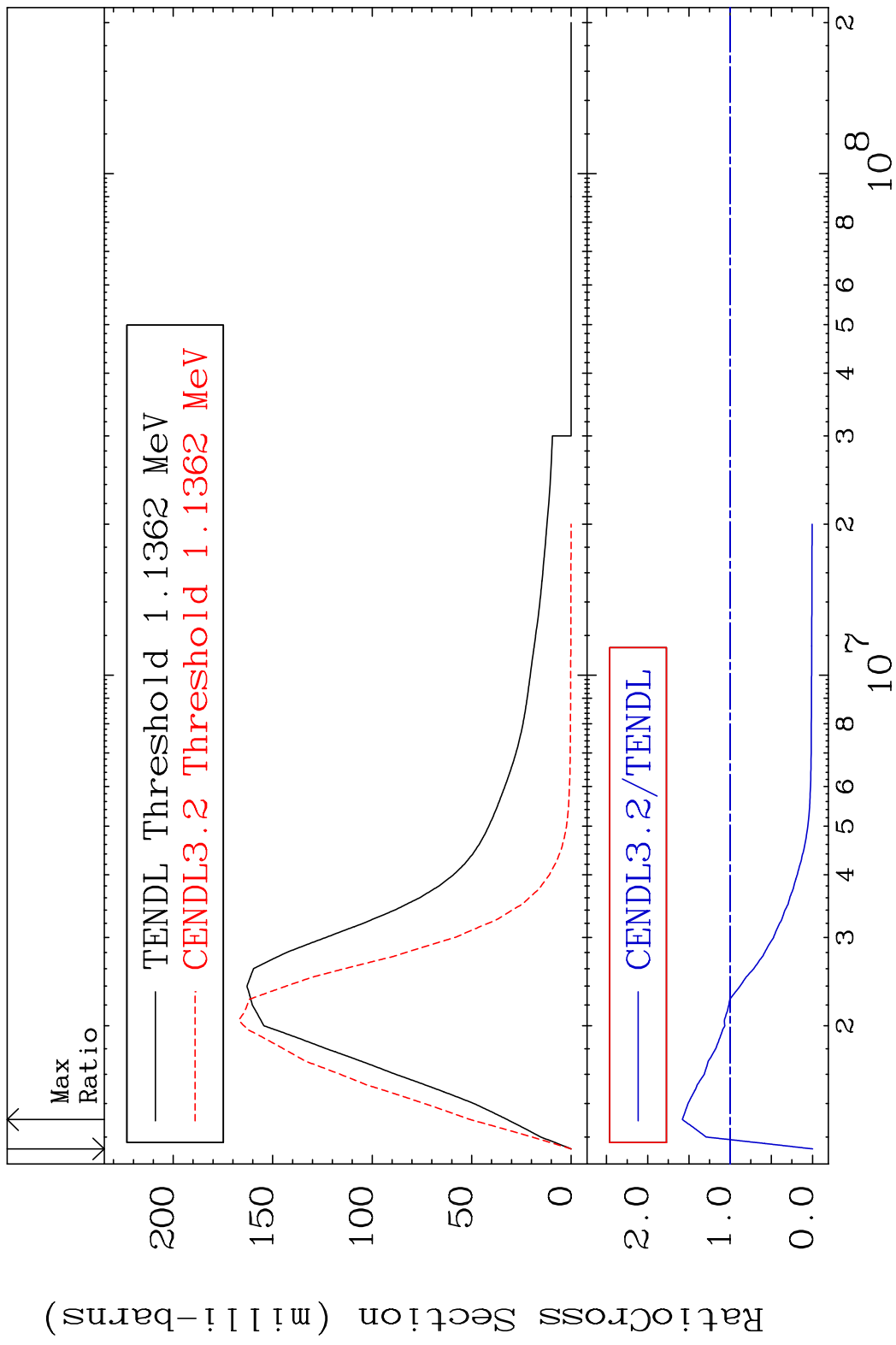
8 Incident Energy (eV) 56-Ba-132

MAT 5631 MT= 52 (n, n') Level 56-Ba-132  
 Cross Section -100.0 To 1458. %



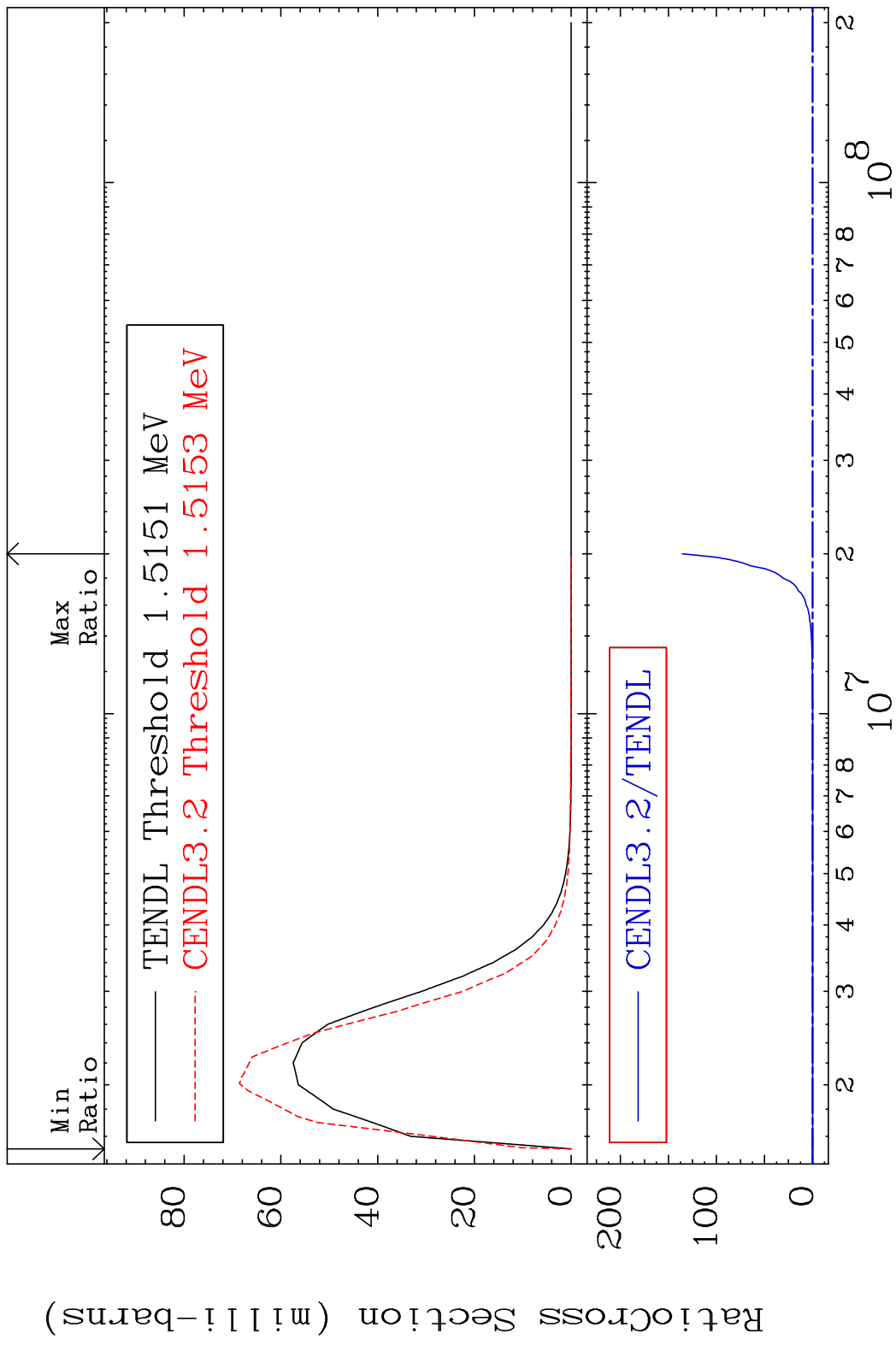
9 Incident Energy (eV) 56-Ba-132

MAT 5631 MT= 53 (n, n') Level 56-Ba-132  
 Cross Section -100.0 To 57.97 %

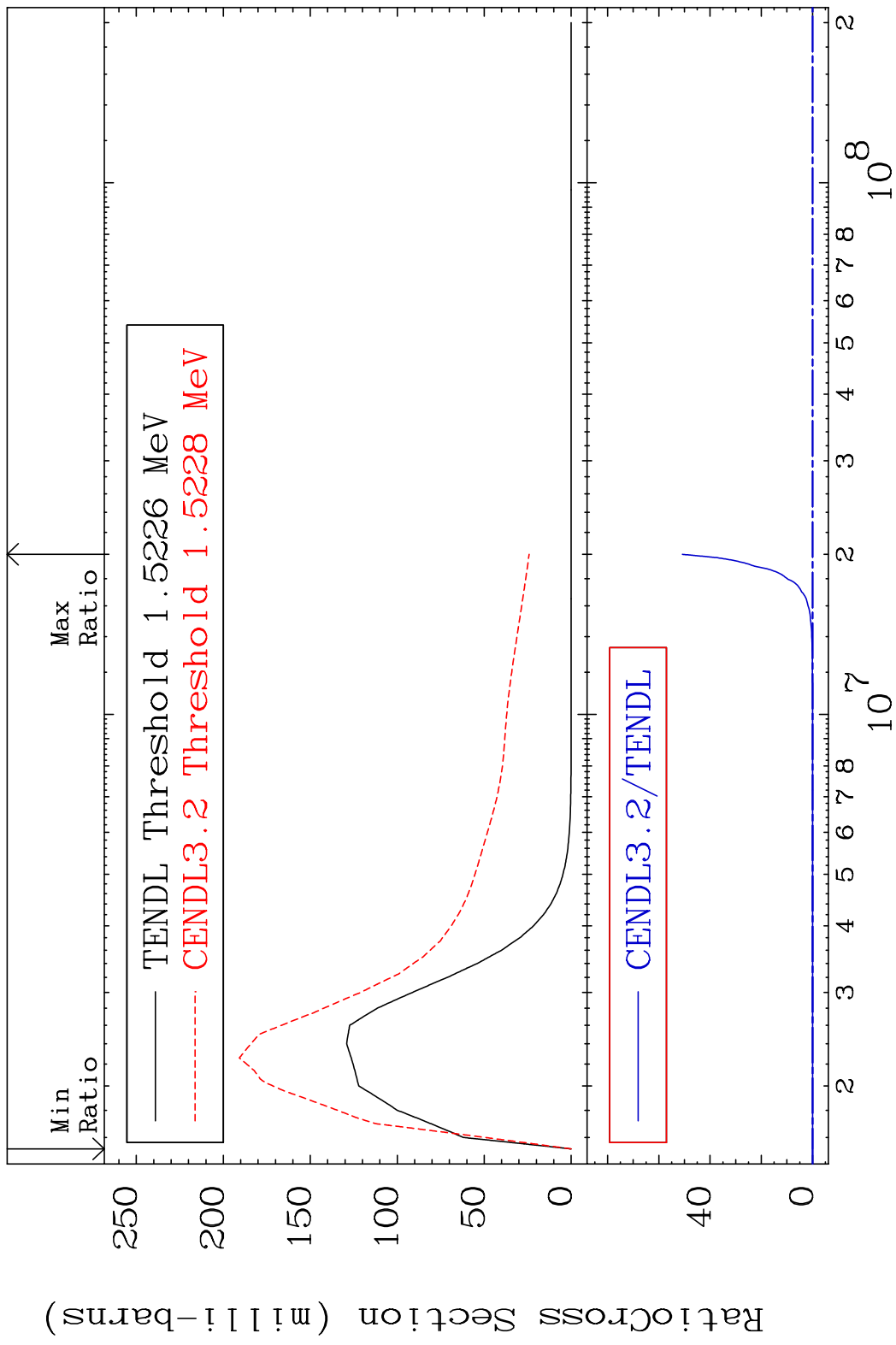


10 Incident Energy (eV) 56-Ba-132

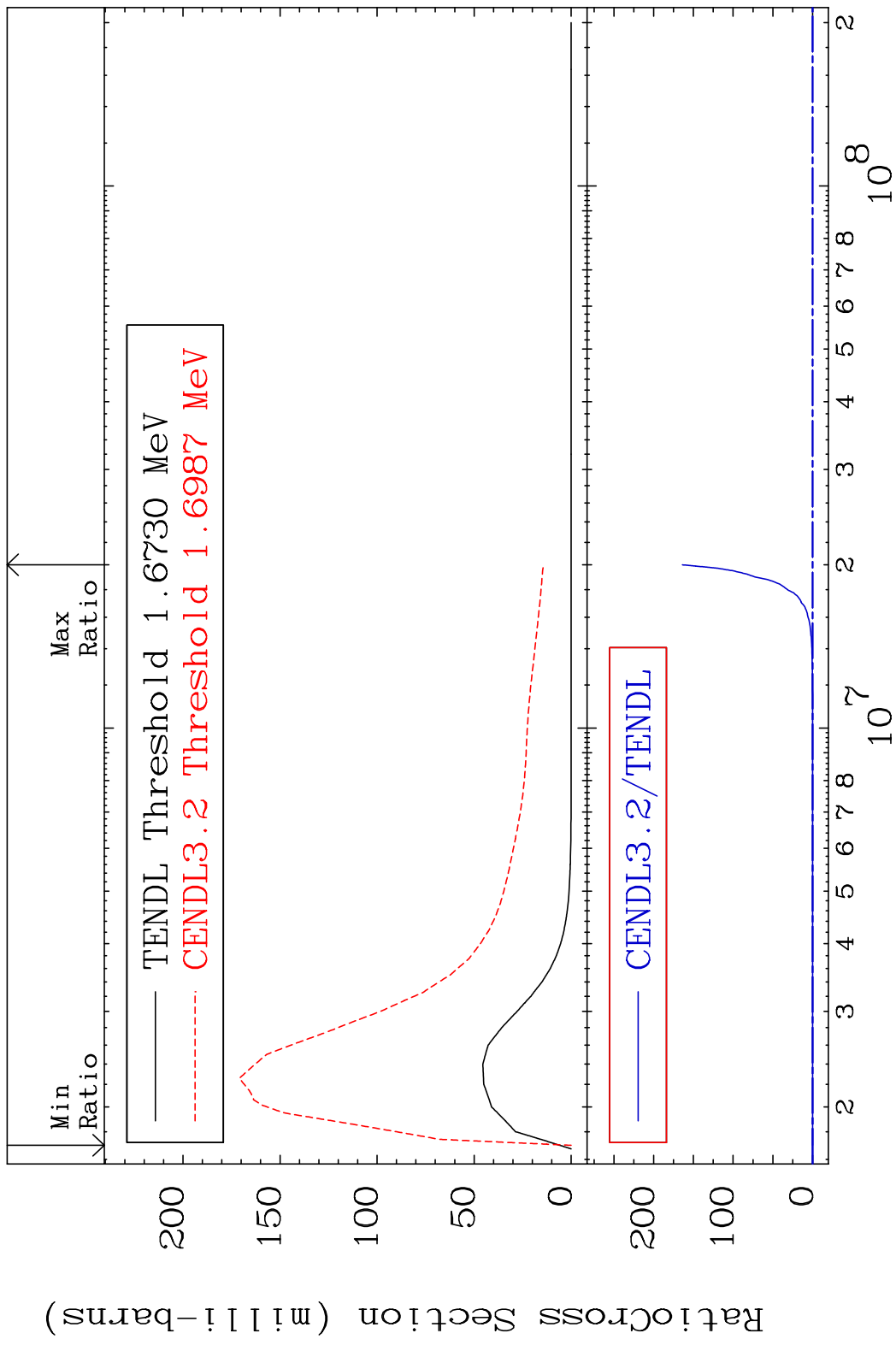
MAT 5631 MT= 54 (n, n') Level 56-Ba-132  
 Cross Section -100.0 To 9999. %



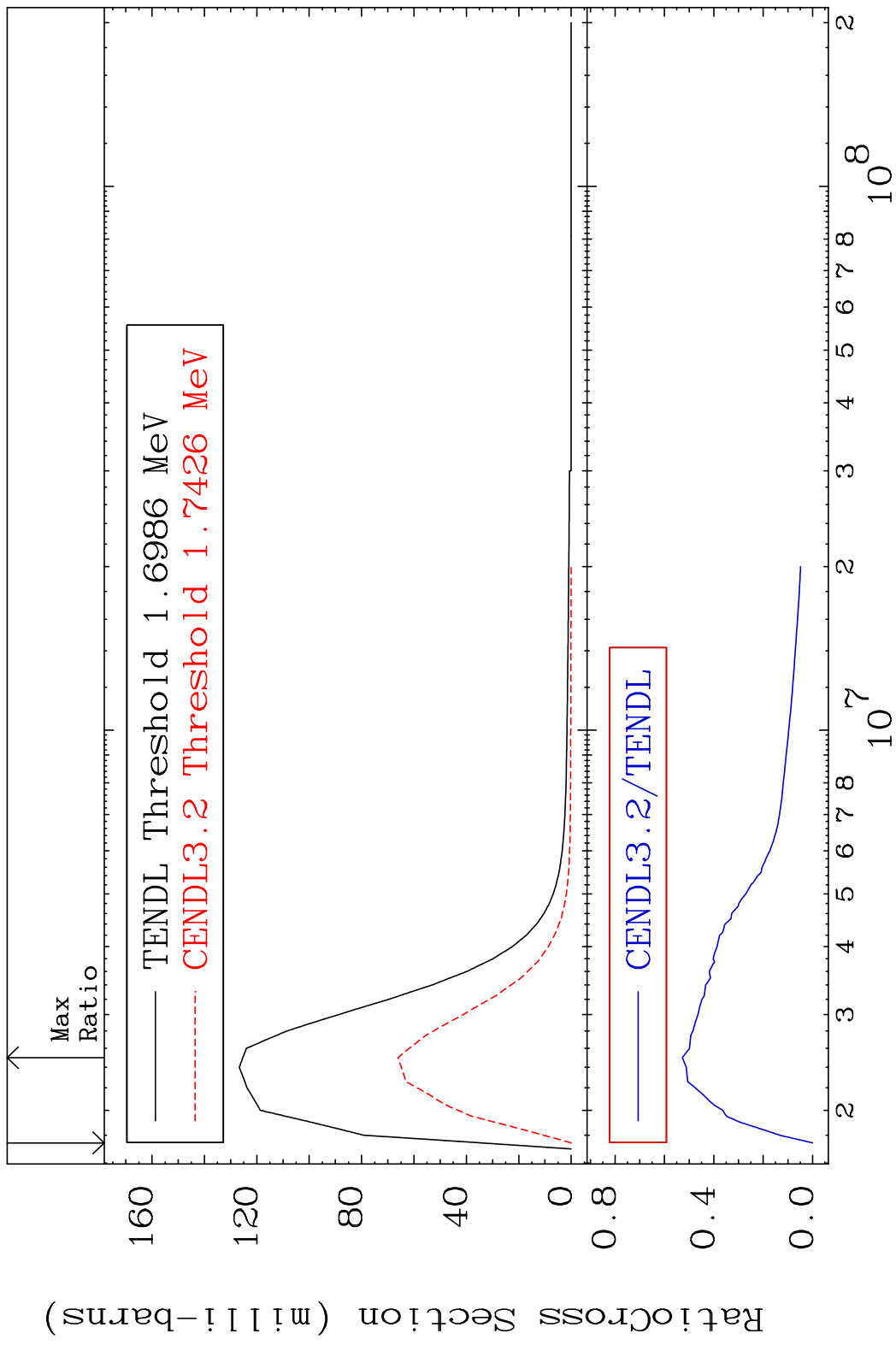
MAT 5631 MT= 55 (n, n') Level 56-Ba-132  
 Cross Section -100.0 To 9999. %



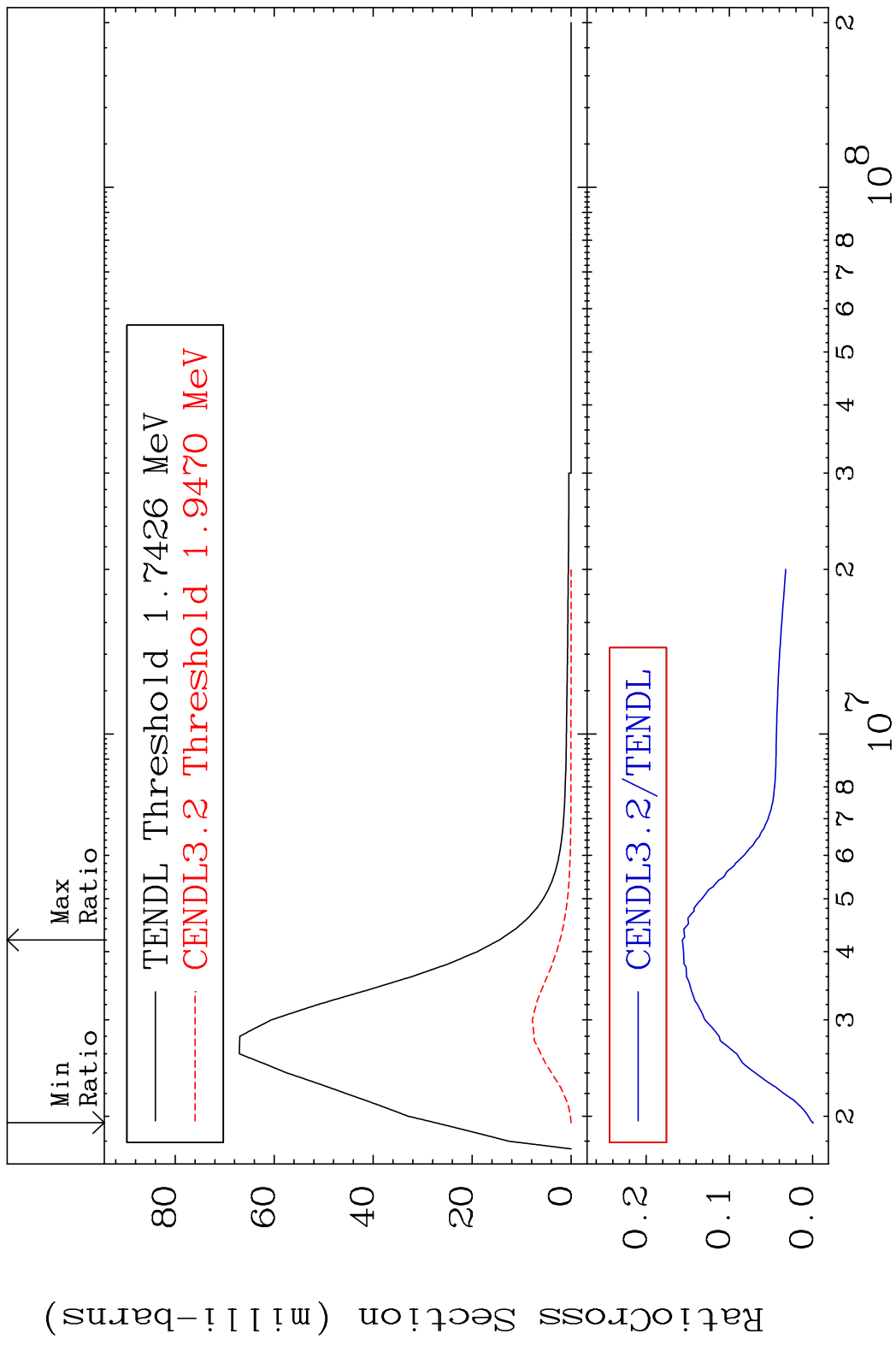
MAT 5631 MT= 56 (n, n') Level 56-Ba-132  
 Cross Section -100.0 To 9999. %



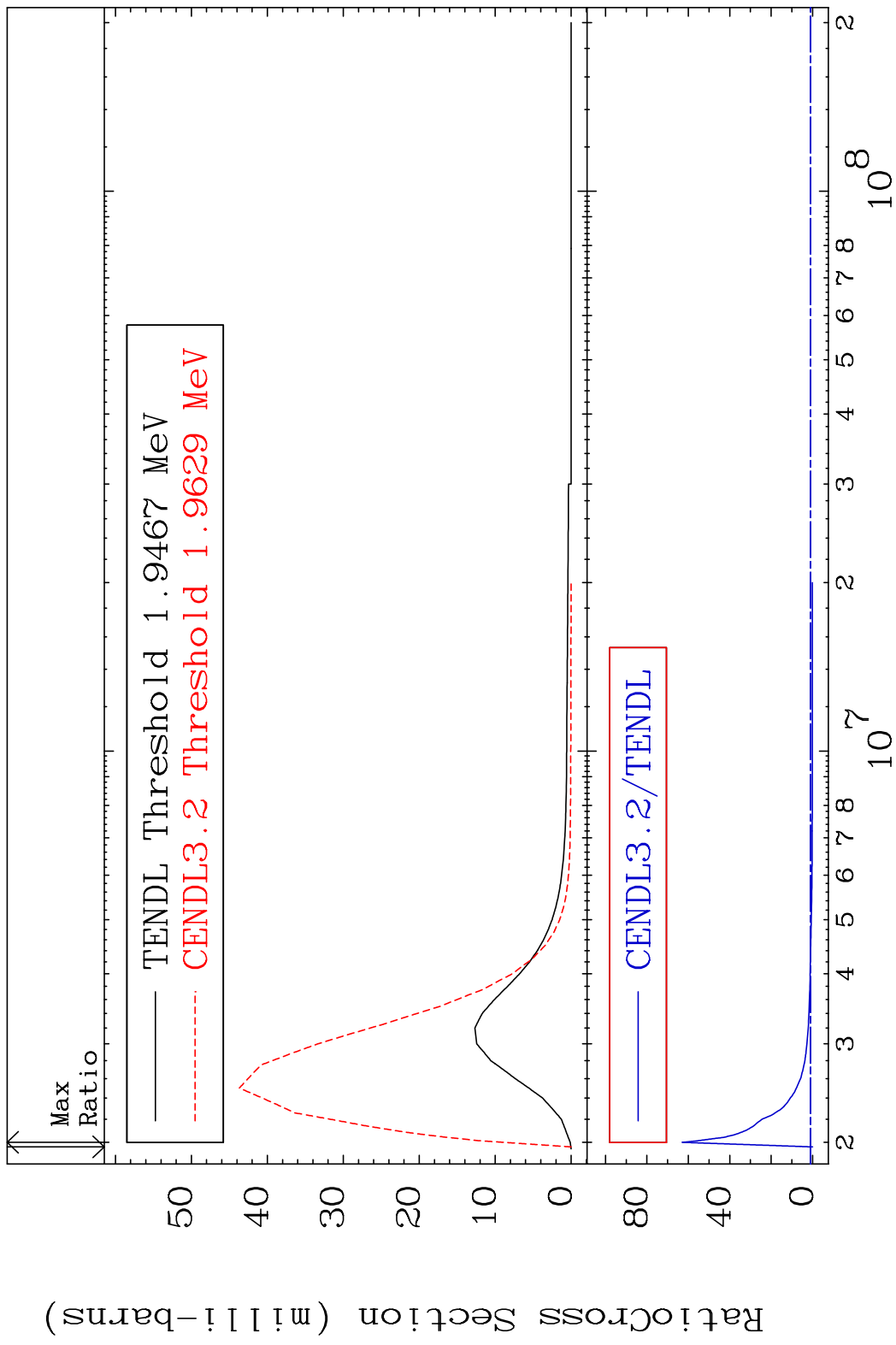
MAT 5631 MT= 57 (n, n') Level 56-Ba-132  
 Cross Section -100.0 To -47.26%



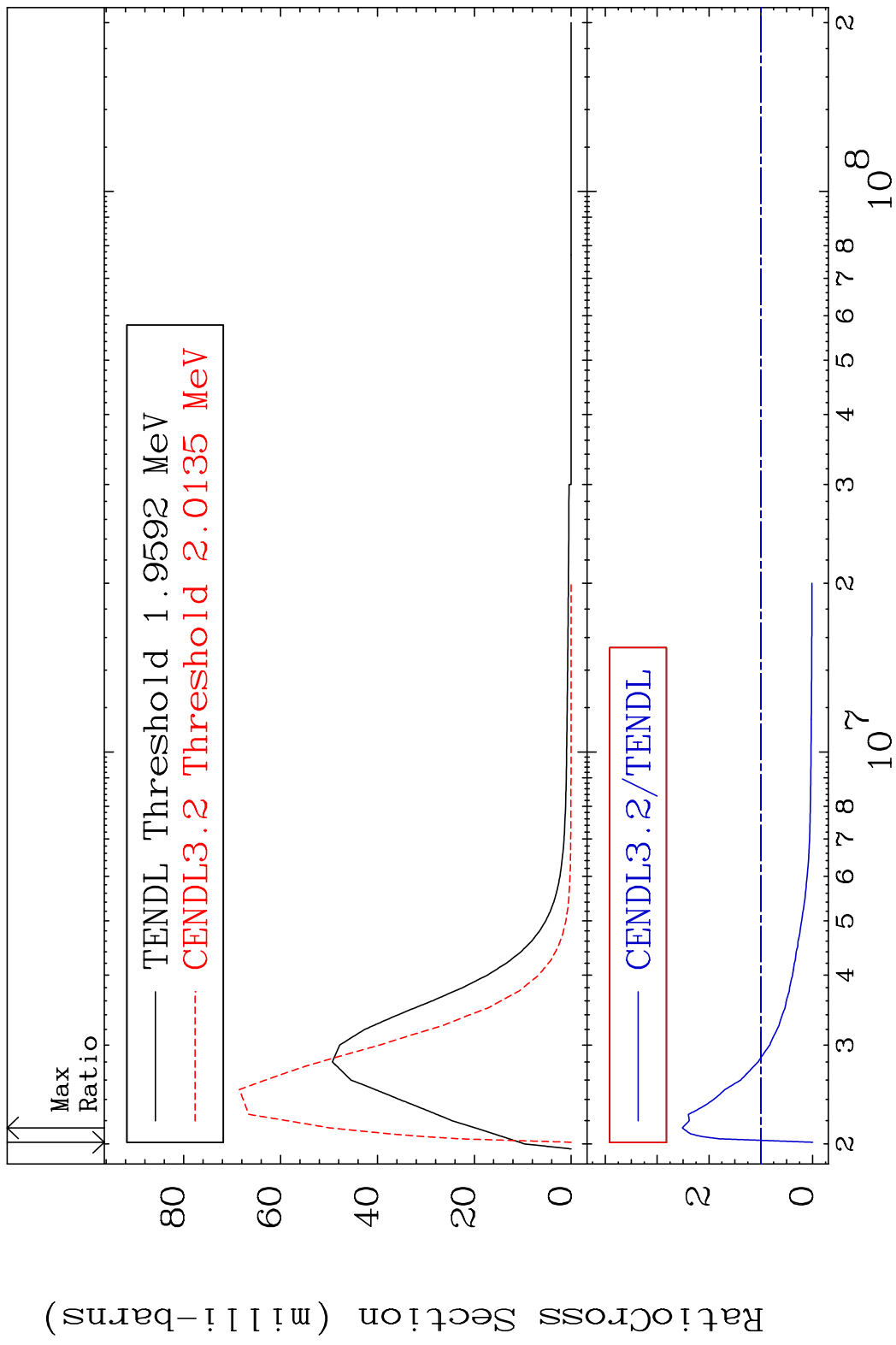
MAT 5631 MT= 58 (n,n') Level 56-Ba-132  
 Cross Section -100.0 To -84.35%



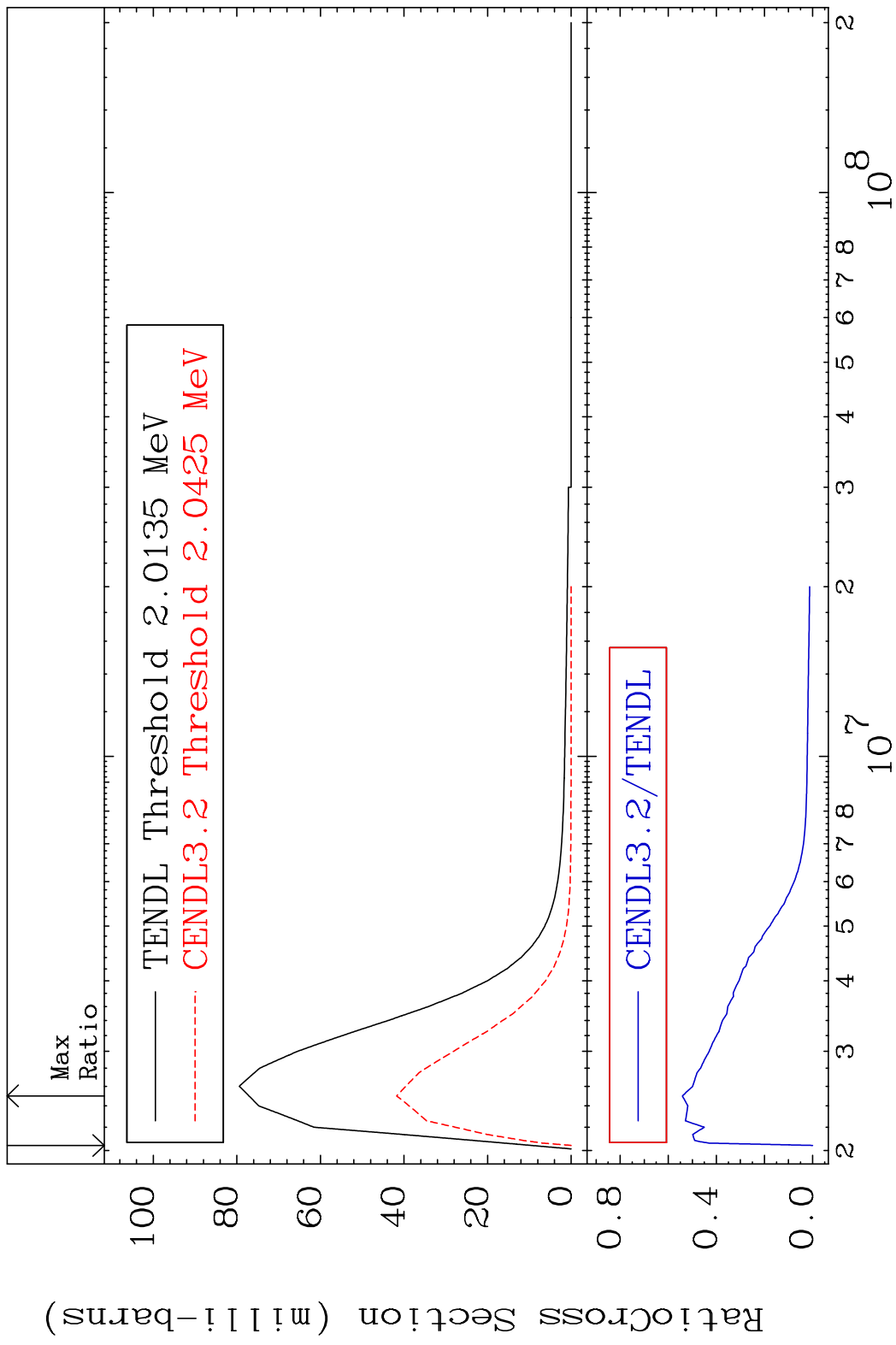
MAT 5631 MT= 59 (n, n') Level 56-Ba-132  
 Cross Section -100.0 To 6188. %



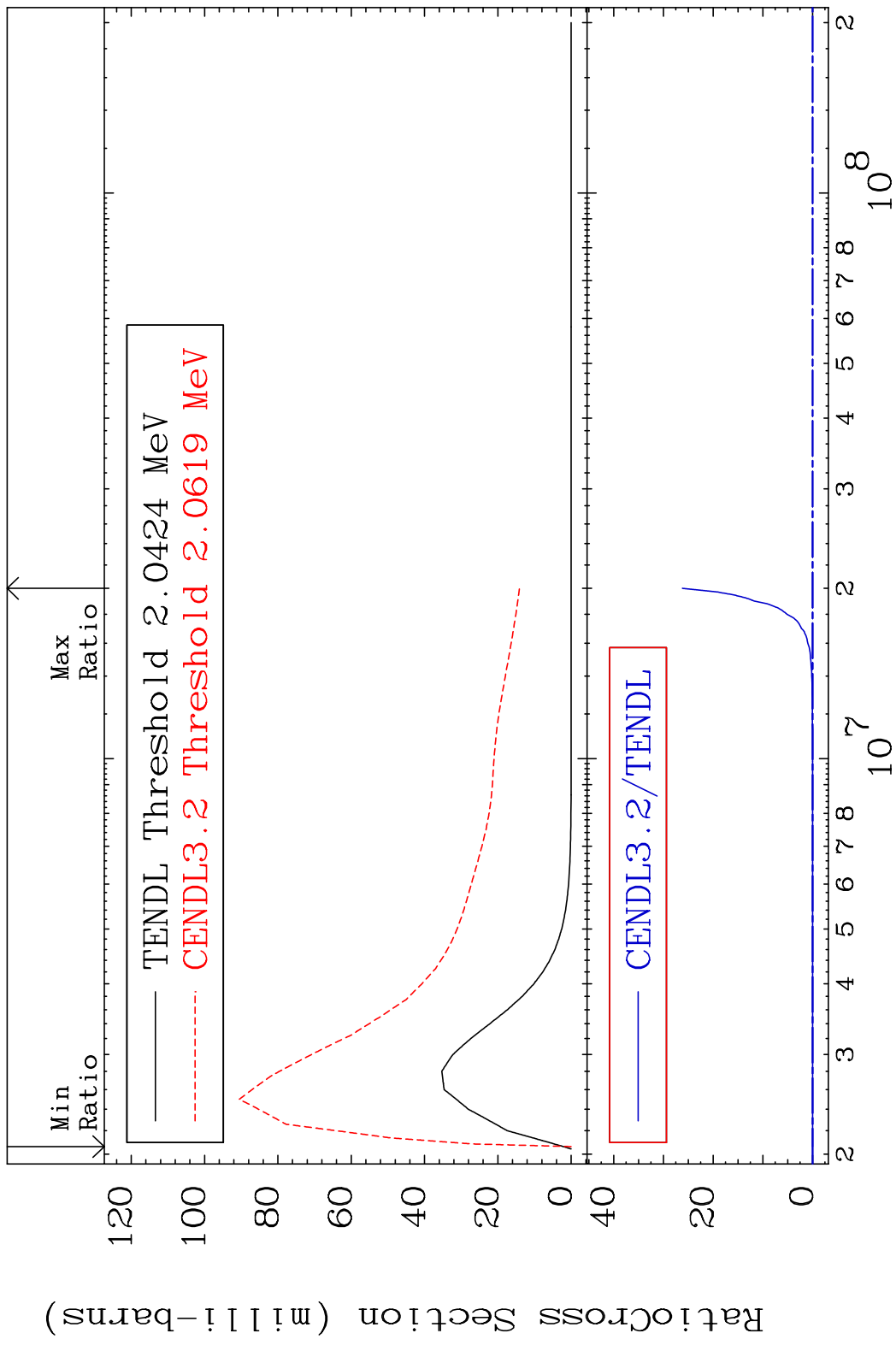
MAT 5631 MT= 60 (n, n') Level 56-Ba-132  
 Cross Section -100.0 To 151.4 %



MAT 5631 MT= 61 (n, n') Level 56-Ba-132  
 Cross Section -100.0 To -45.86%

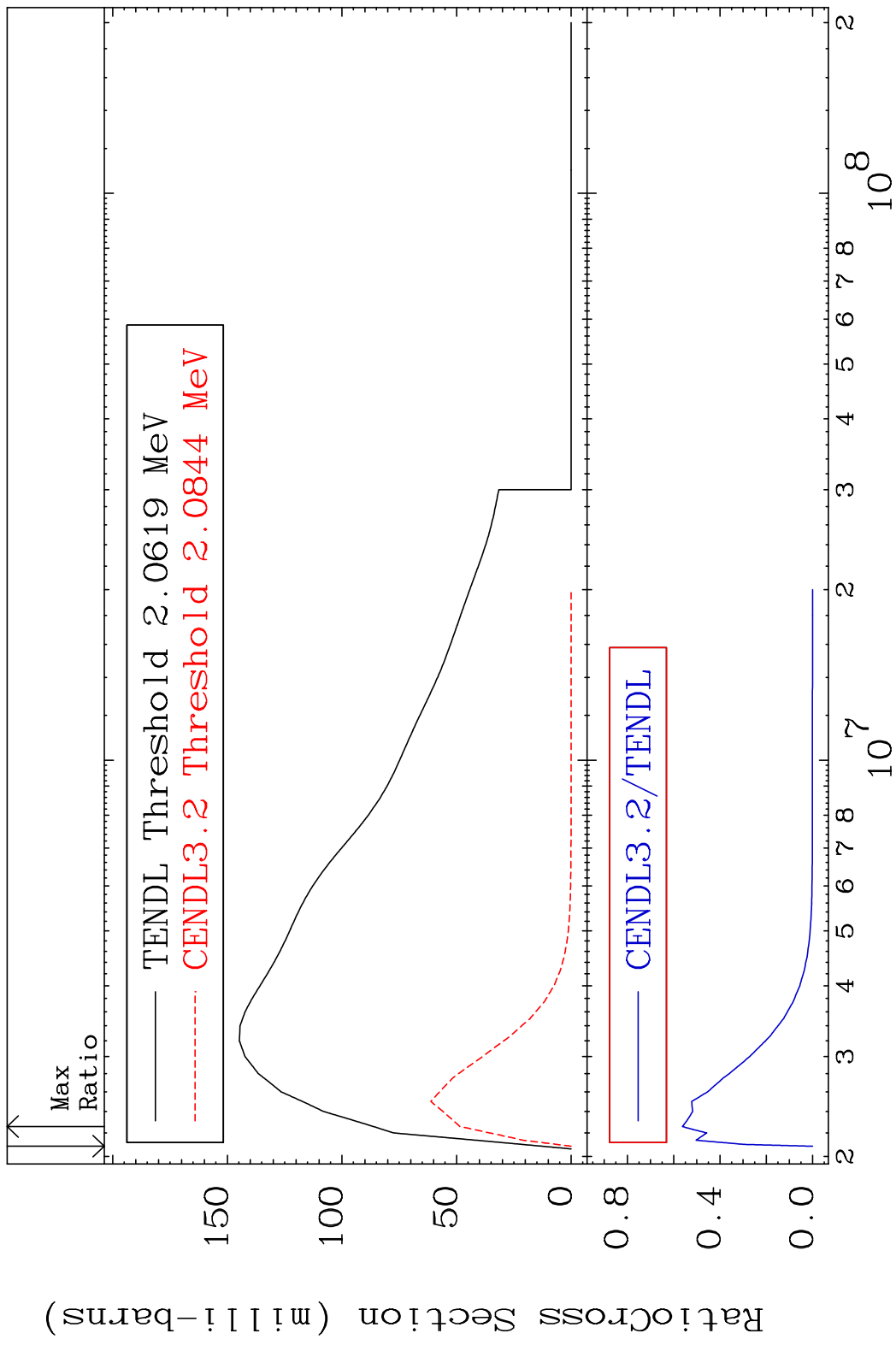


MAT 5631 MT= 62 (n, n') Level 56-Ba-132  
 Cross Section -100.0 To 9999. %



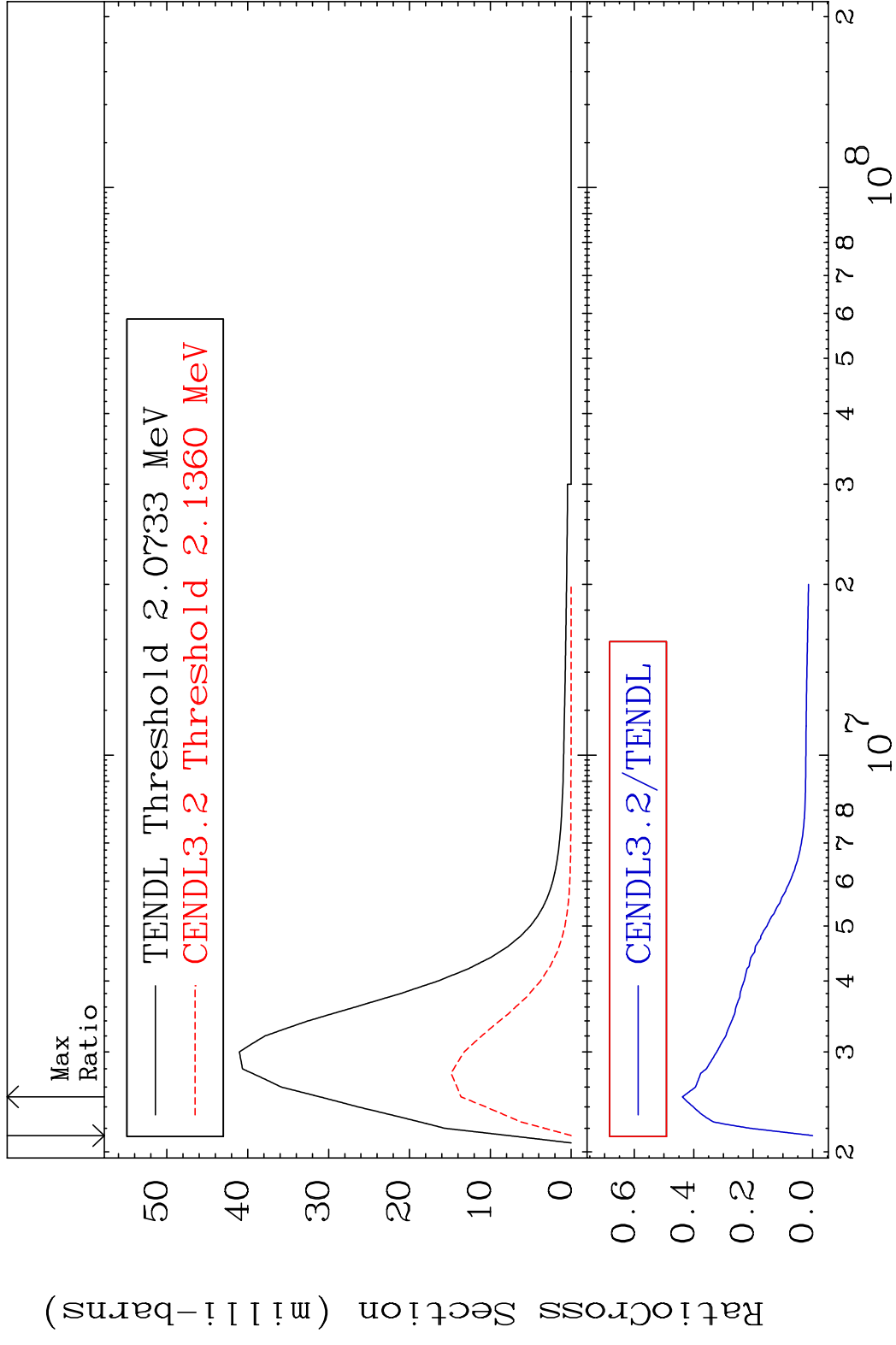
19 Incident Energy (eV) 56-Ba-132

MAT 5631 MT= 63 (n, n') Level 56-Ba-132  
 Cross Section -100.0 To -43.75%



20 Incident Energy (eV) 56-Ba-132

MAT 5631 MT= 64 (n,n') Level 56-Ba-132  
 Cross Section -100.0 To -56.17%

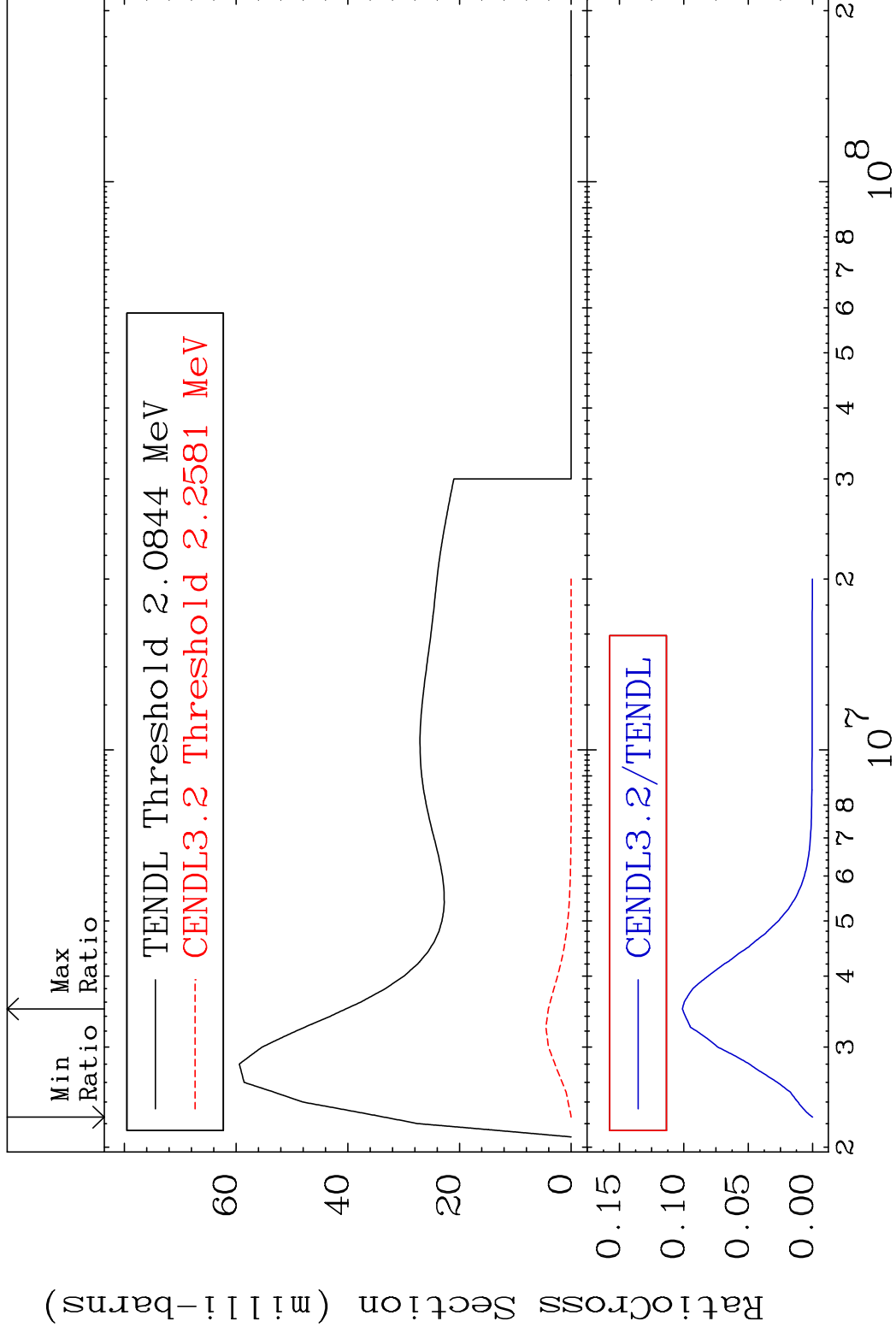


MAT 5631

MT= 65 (n,n') Level

56-Ba-132

Cross Section -100.0 To -89.89%

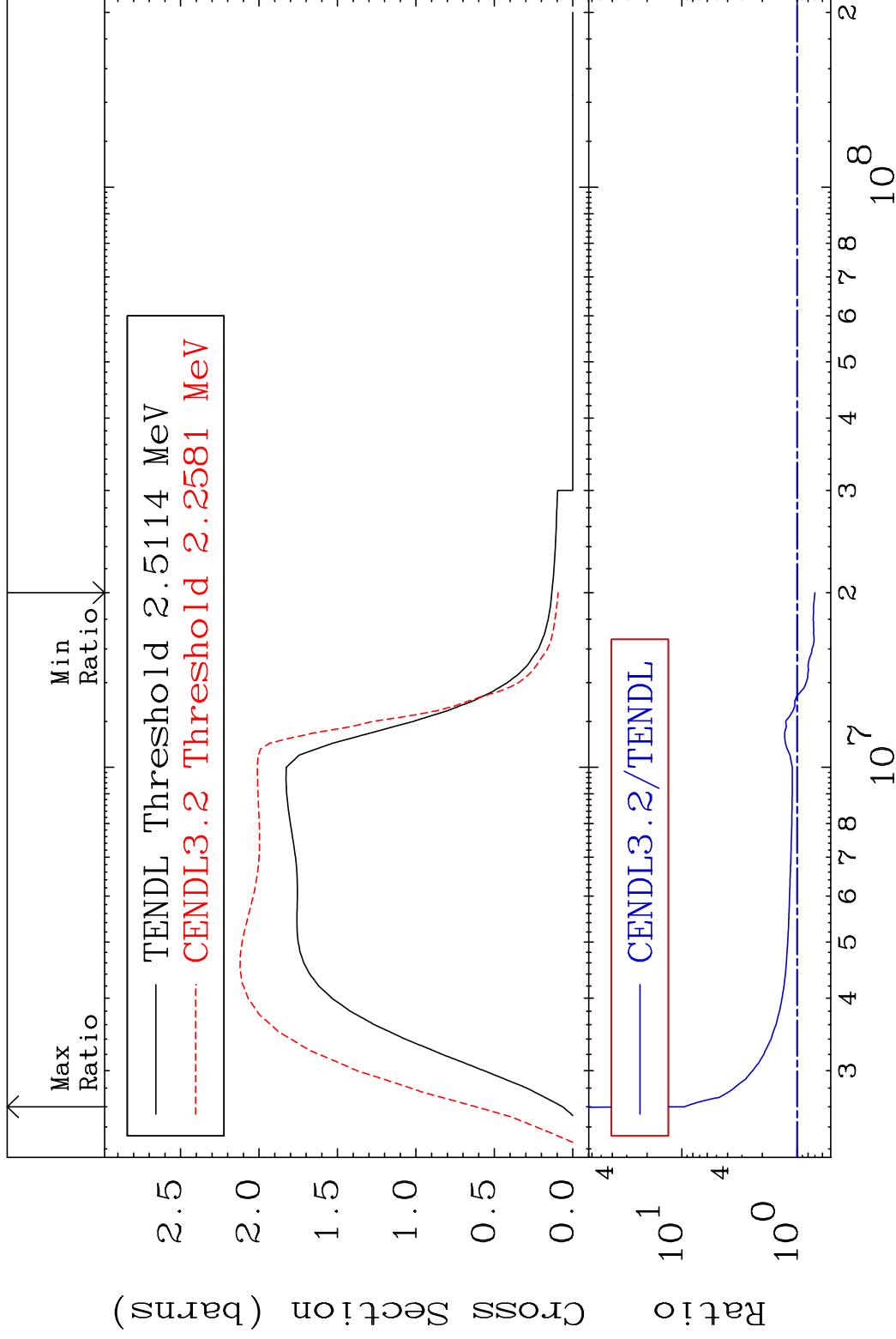


MAT 5631

(n, n') Continuum

56-Ba-132

Cross Section -30.03 To 850.1 %



23

Incident Energy (eV)

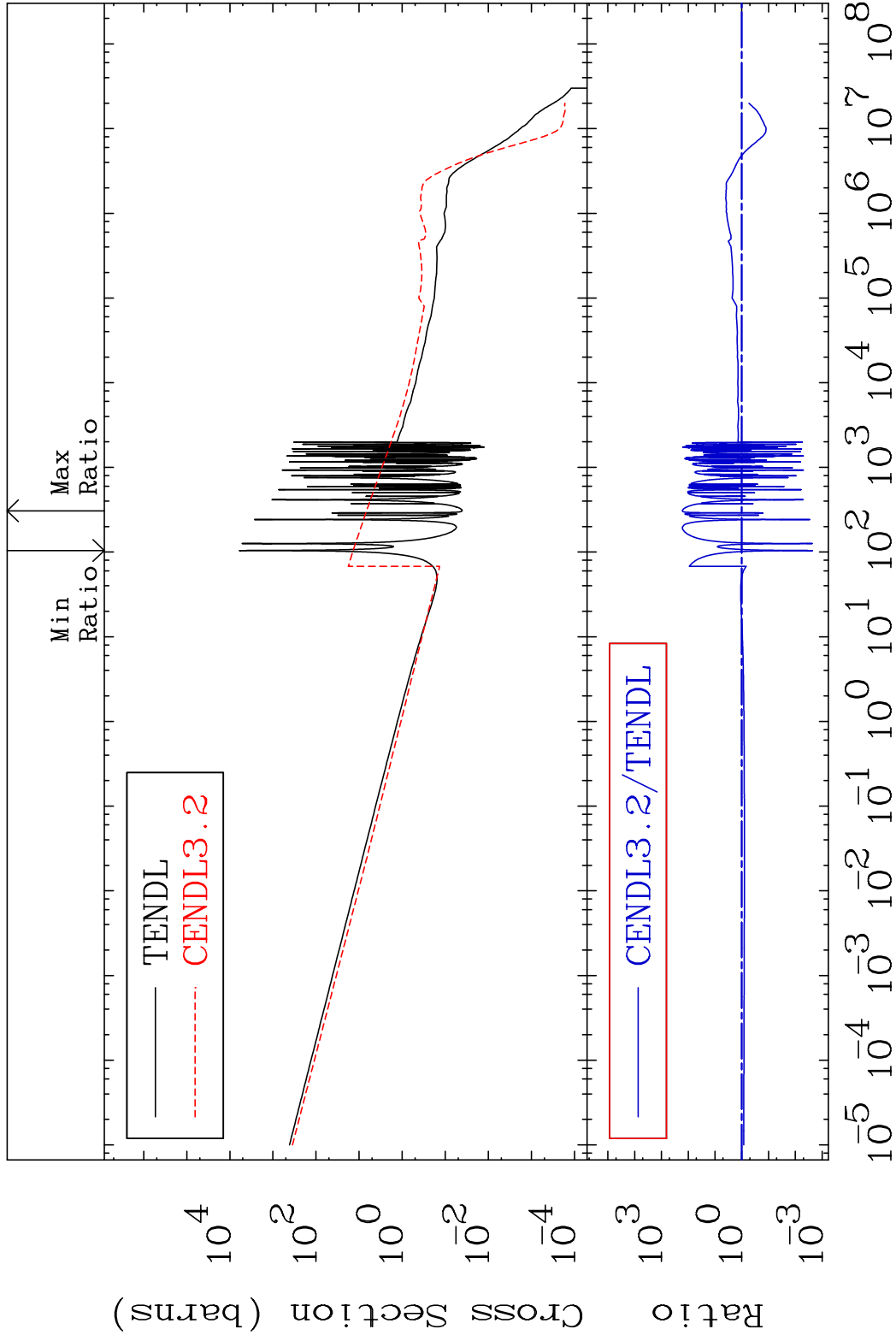
56-Ba-132

MAT 5631

(n,  $\gamma$ )

56-Ba-132

Cross Section -99.777 To 9999. %



24

Incident Energy (eV)

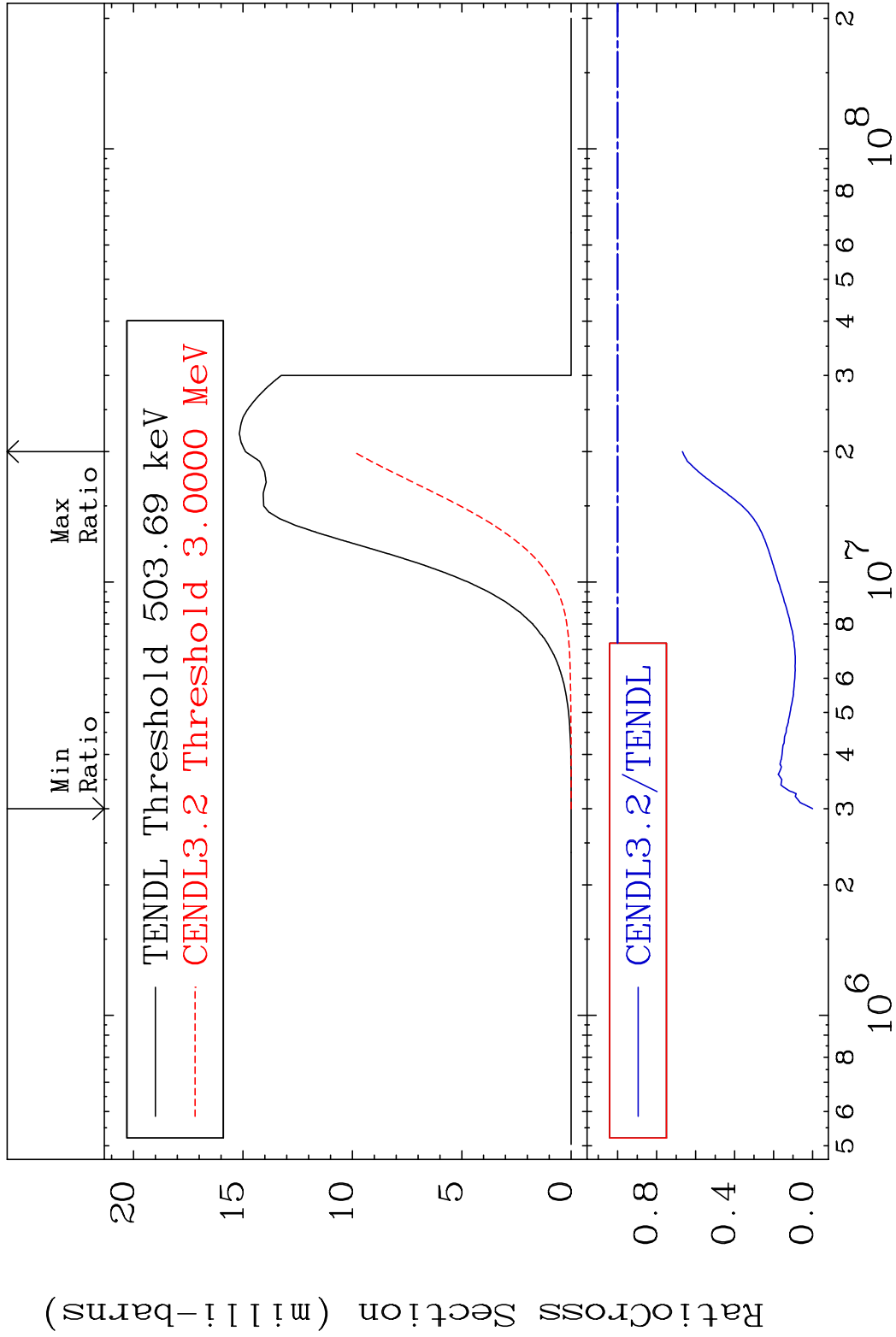
56-Ba-132

MAT 5631

(n, p)

56-Ba-132

Cross Section -100.0 To -33.18%



25

Incident Energy (eV)

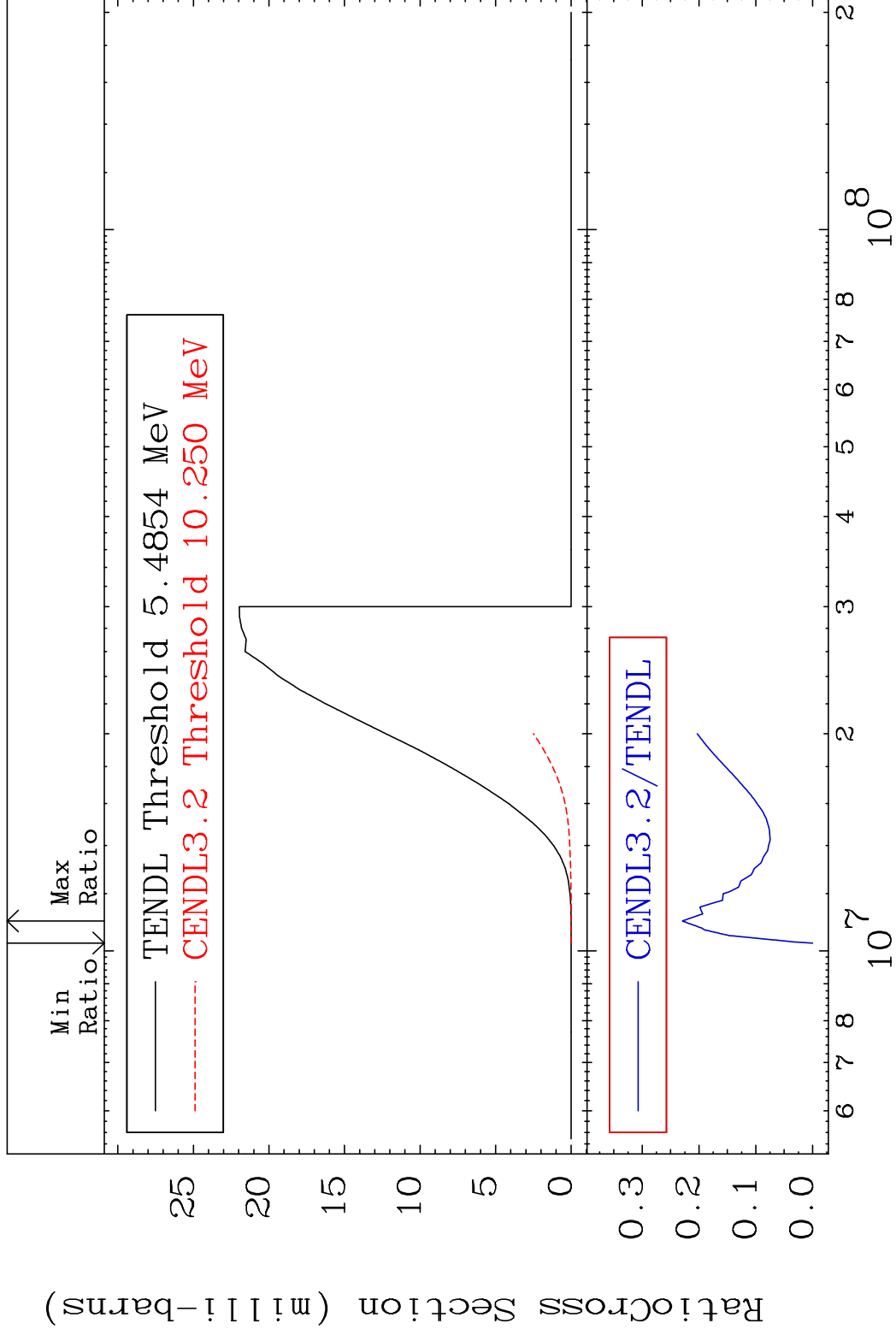
56-Ba-132

MAT 5631

(n, d)

56-Ba-132

Cross Section -100.0 To -77.07%



26

Incident Energy (eV)

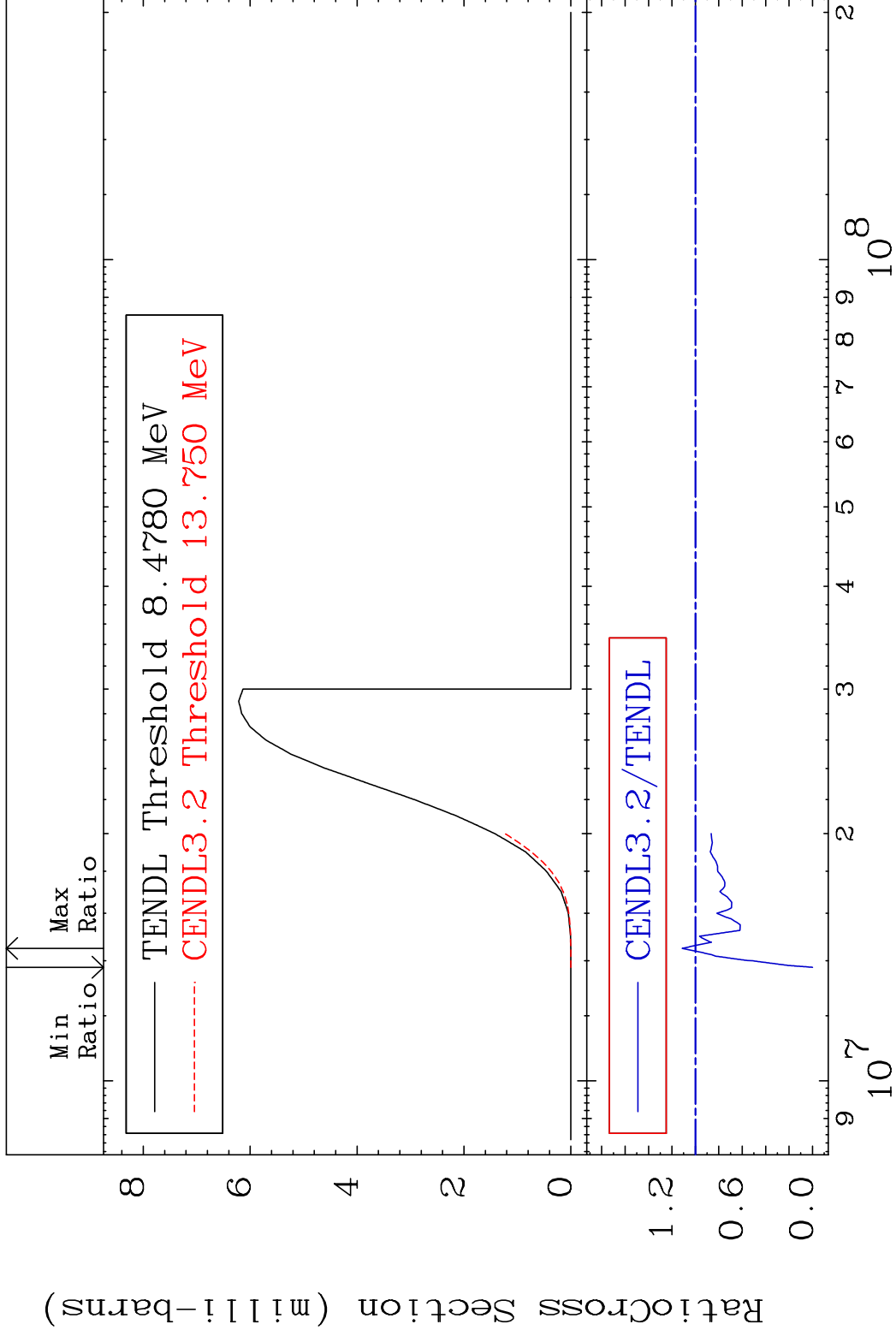
56-Ba-132

MAT 5631

(n, t)

56-Ba-132

Cross Section -100.0 To 11.29 %



27

Incident Energy (eV)

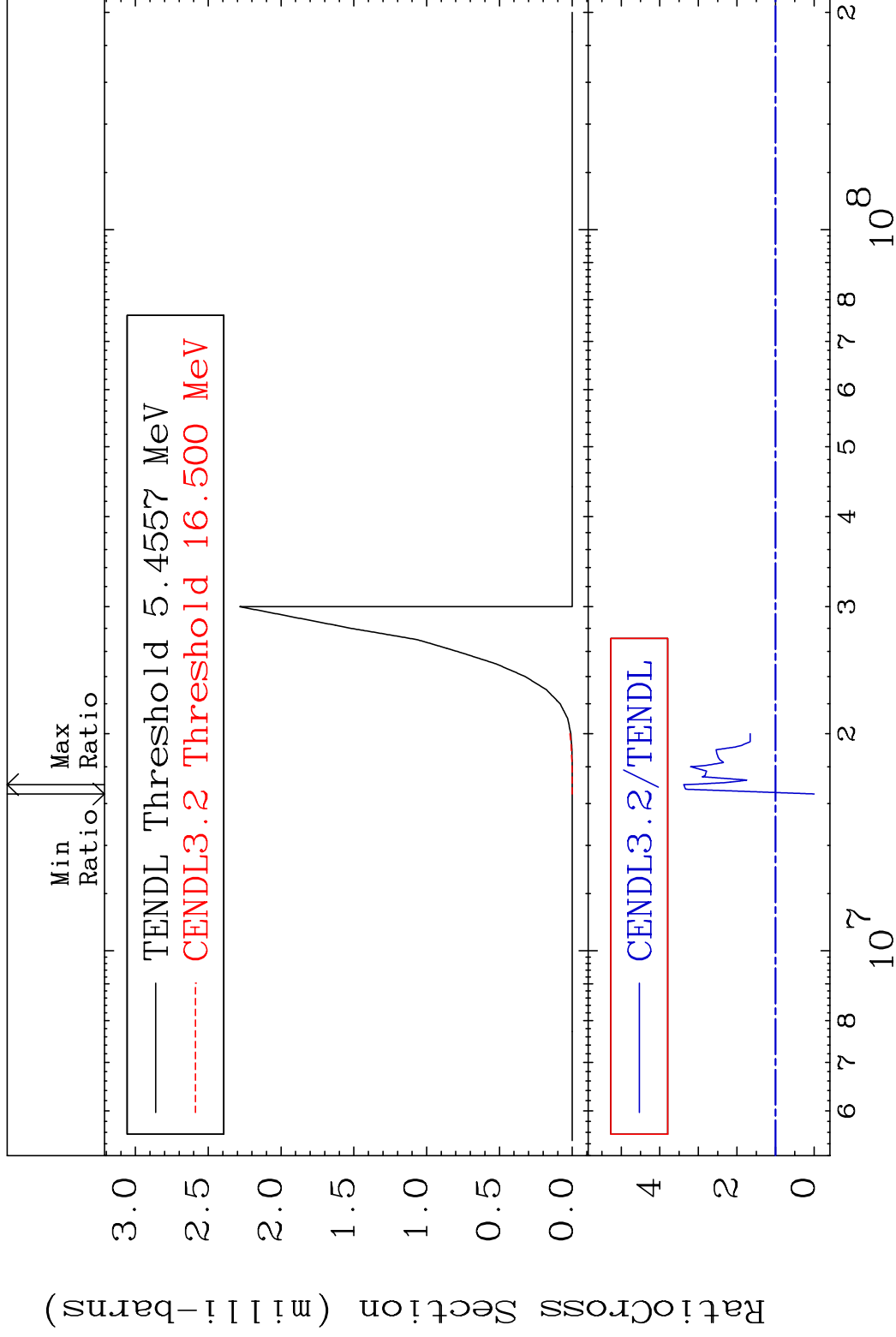
56-Ba-132

MAT 5631

(n, He-3)

56-Ba-132

Cross Section -100.0 To 238.1 %



28

Incident Energy (eV)

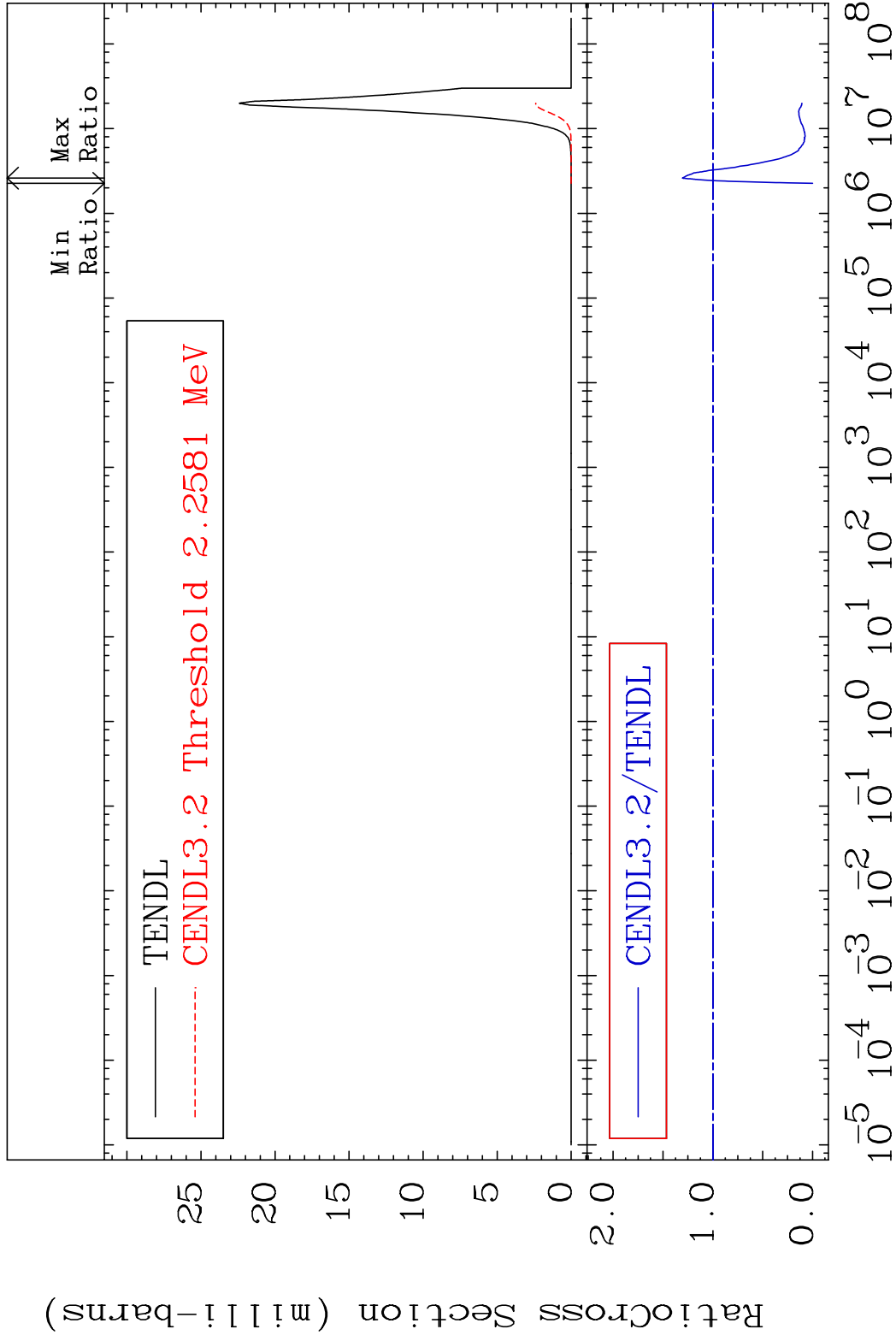
56-Ba-132

MAT 5631

(n,  $\alpha$ )

56-Ba-132

Cross Section -100.0 To 30.60 %



29

Incident Energy (eV)

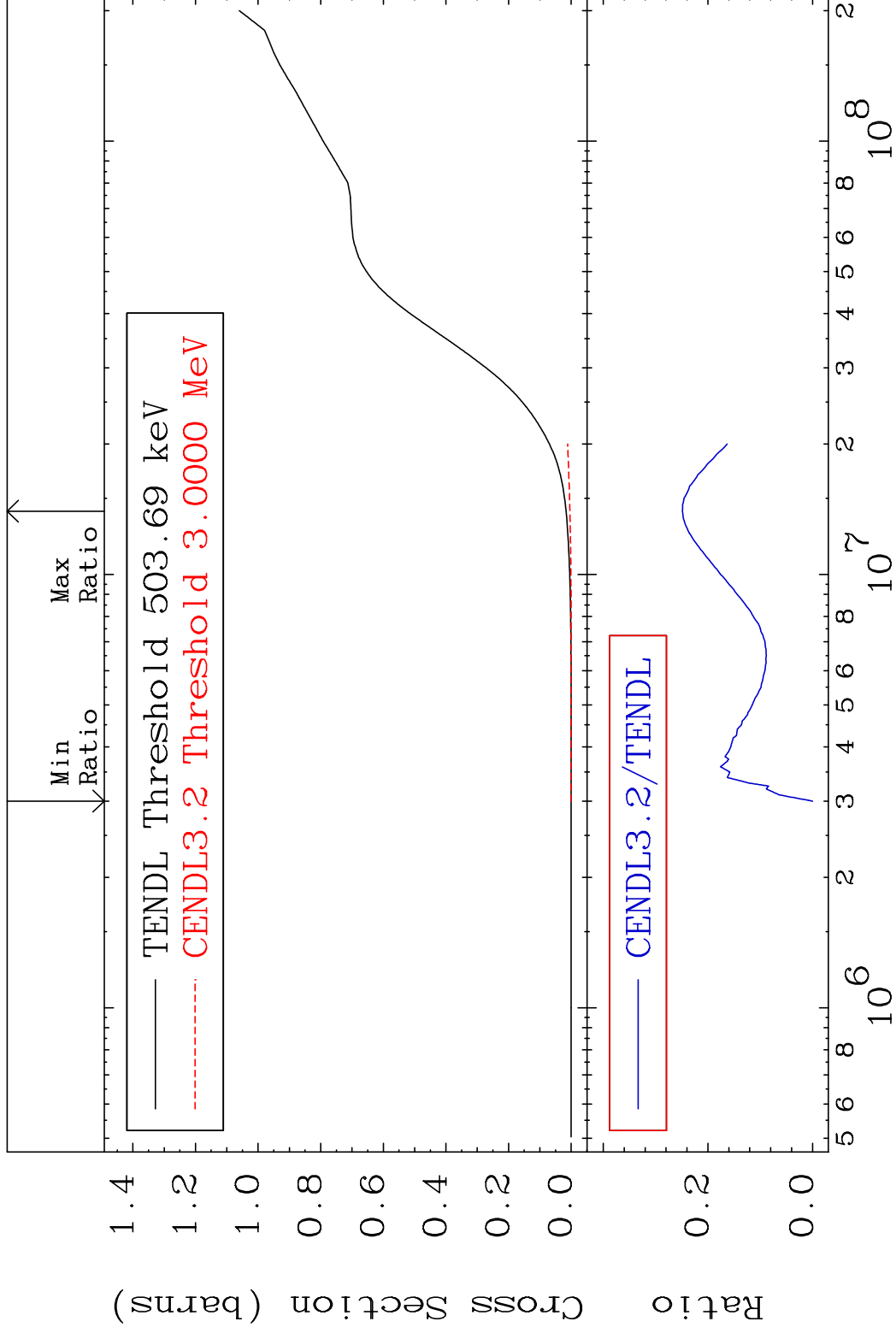
56-Ba-132

MAT 5631

Hydrogen Production

56-Ba-132

Cross Section -100.0 To -75.11%



30

Incident Energy (eV)

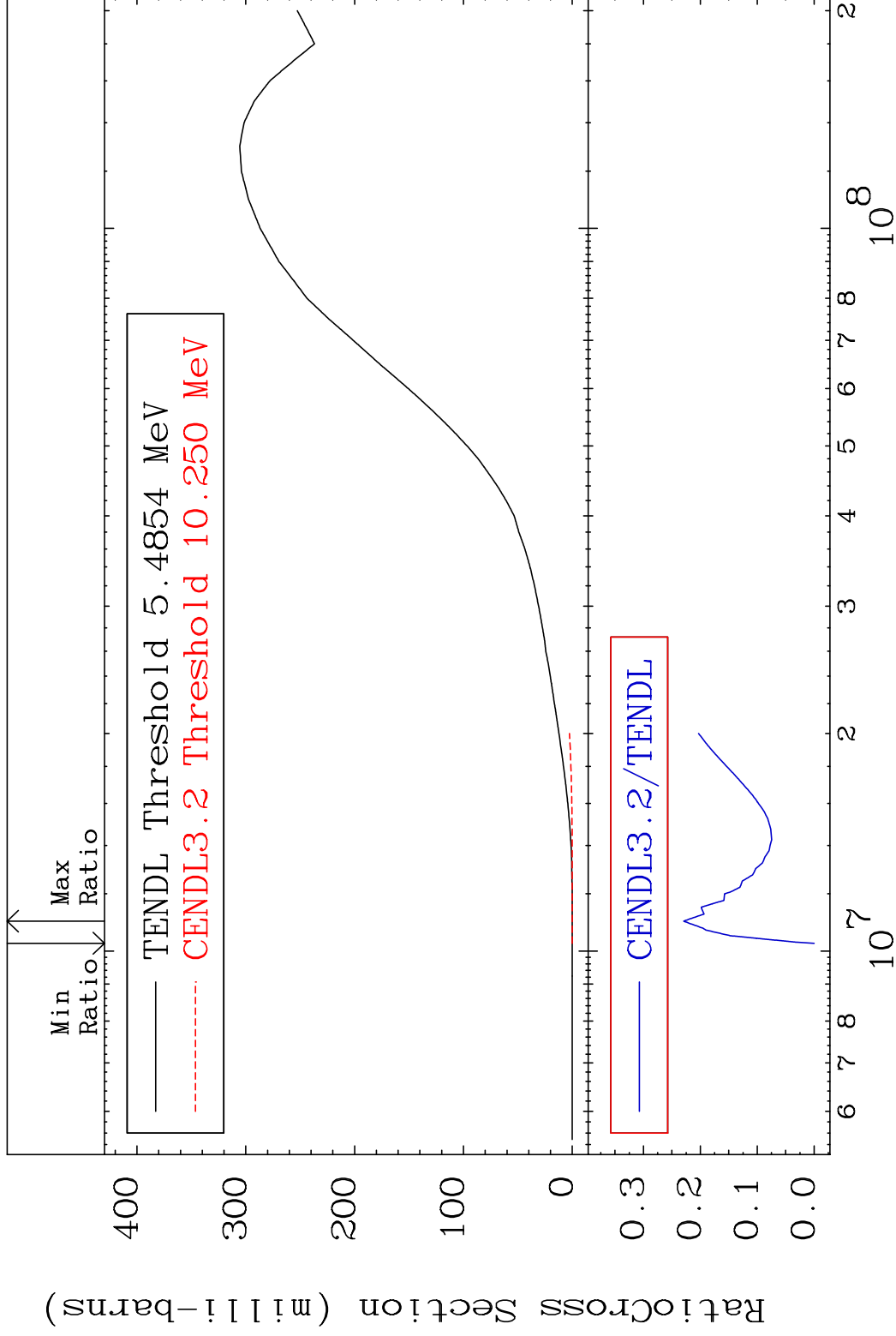
56-Ba-132

MAT 5631

Deuterium Production

56-Ba-132

Cross Section -100.0 To -77.07%



31

Incident Energy (eV)

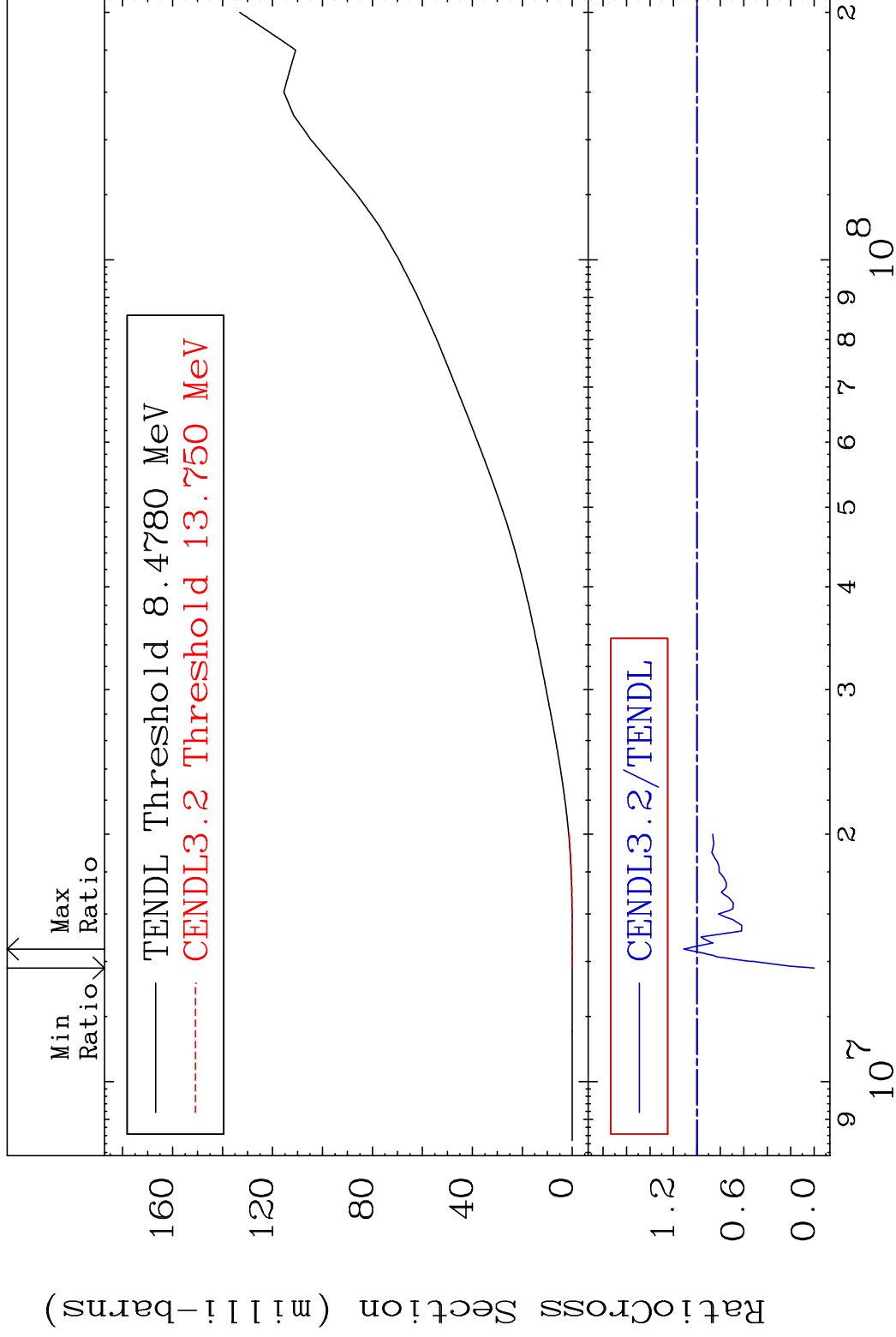
56-Ba-132

MAT 5631

Tritium Production

56-Ba-132

Cross Section -100.0 To 11.29 %



32

Incident Energy (eV)

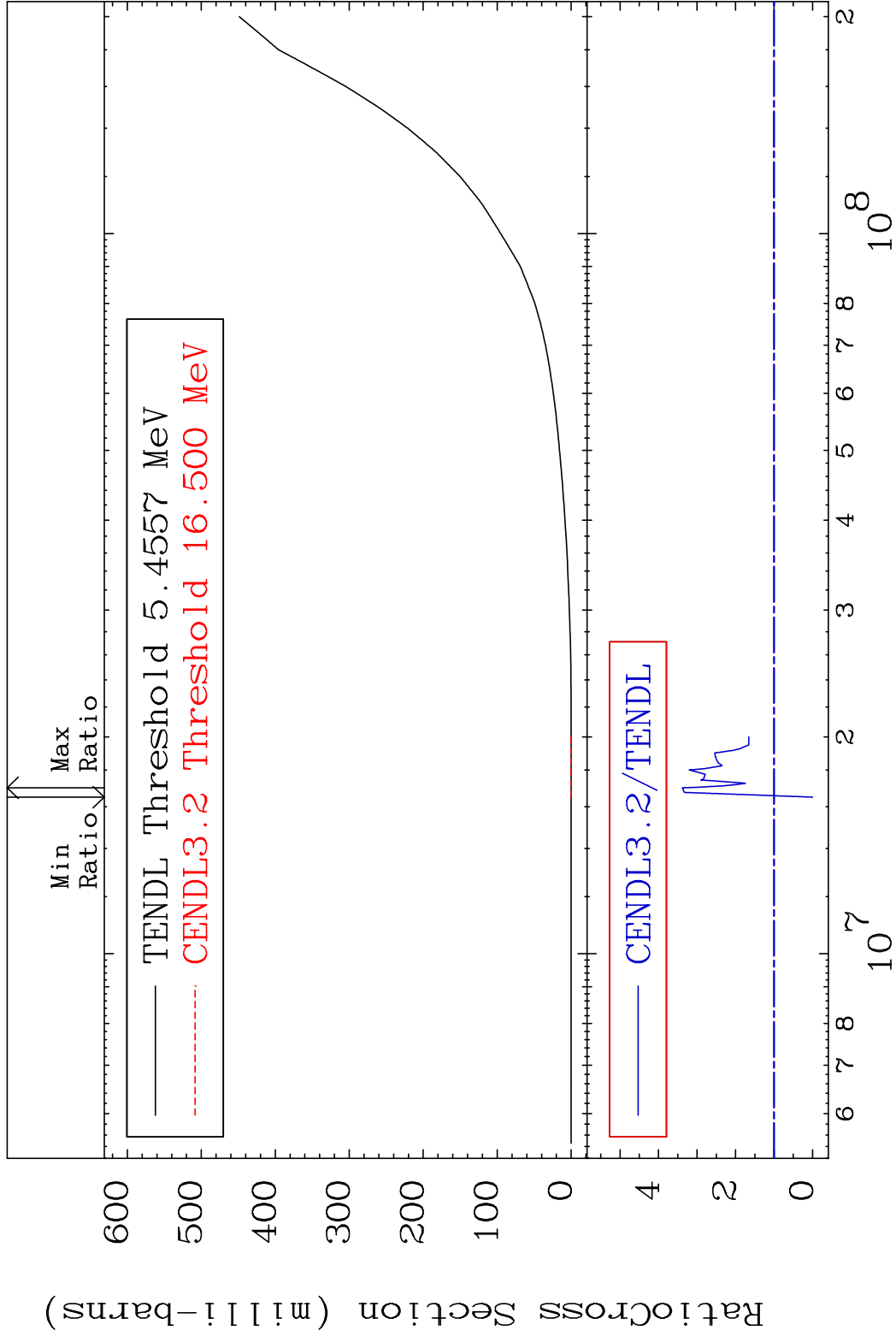
56-Ba-132

MAT 5631

He-3 Production

56-Ba-132

Cross Section -100.0 To 238.1 %



33

Incident Energy (eV)

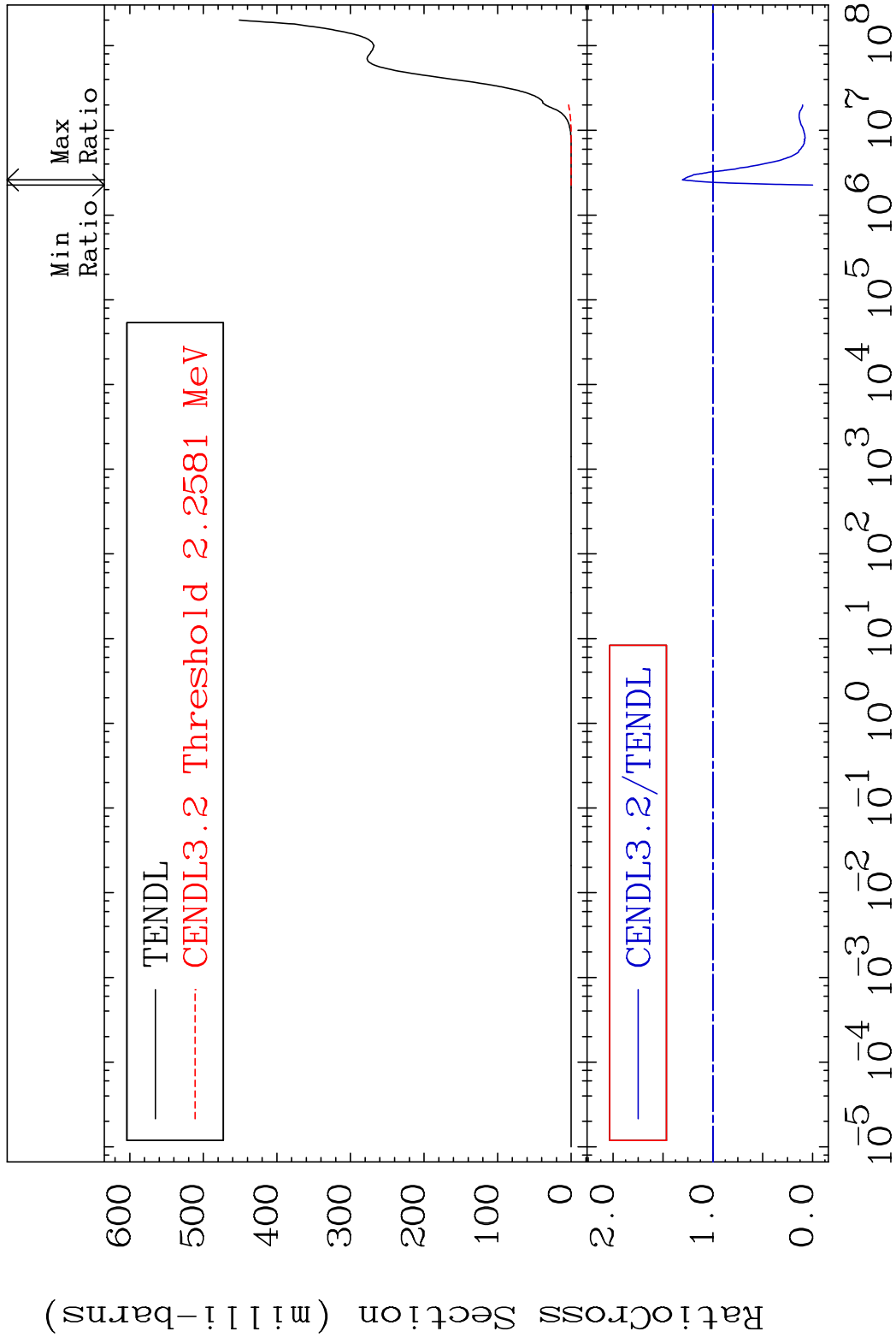
56-Ba-132

MAT 5631

He-4 Production

56-Ba-132

Cross Section -100.0 To 30.60 %



34

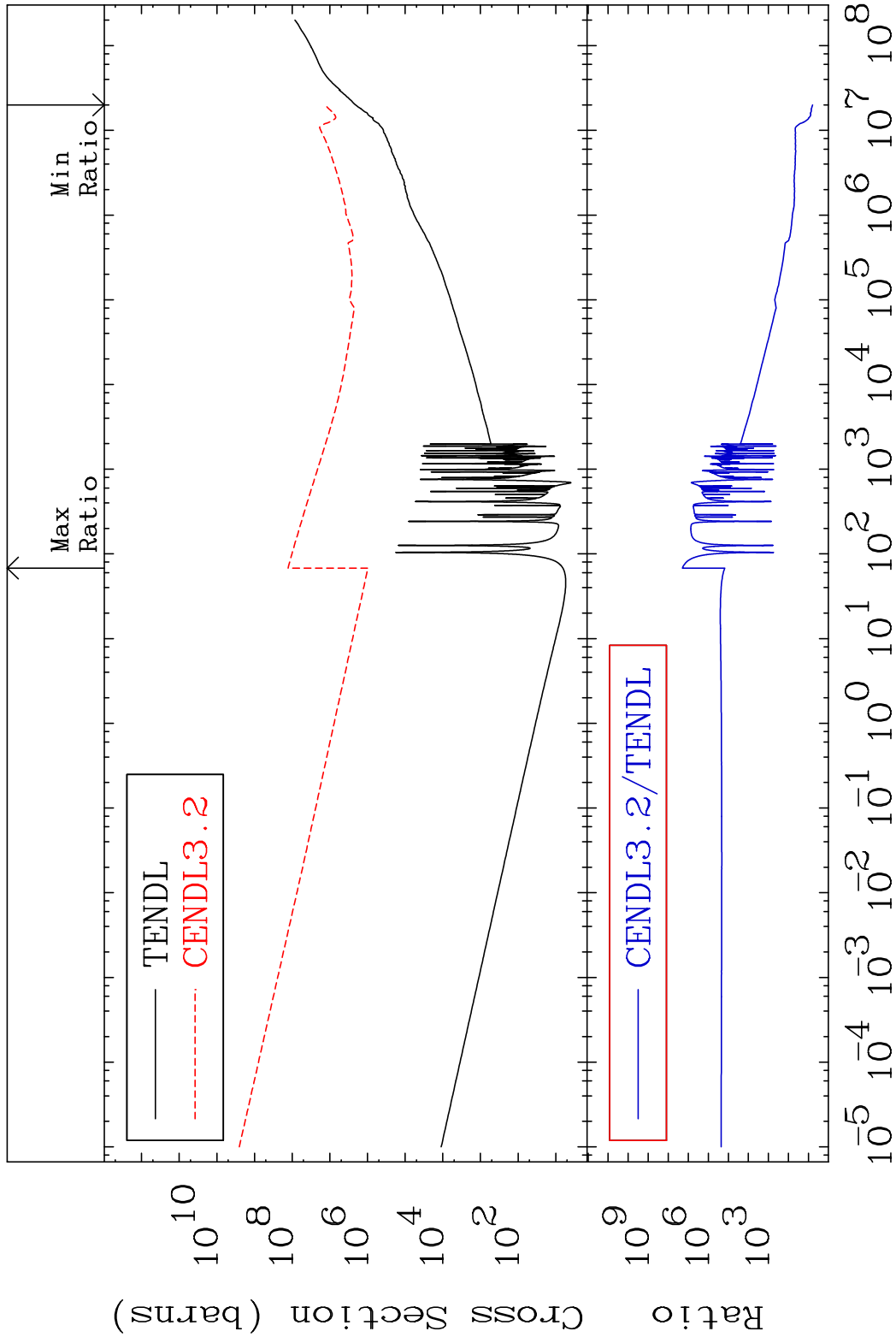
Incident Energy (eV)

56-Ba-132

MAT 5631

Kerma total (eV-barns) 56-Ba-132

Cross Section 527.3 To 9999. %



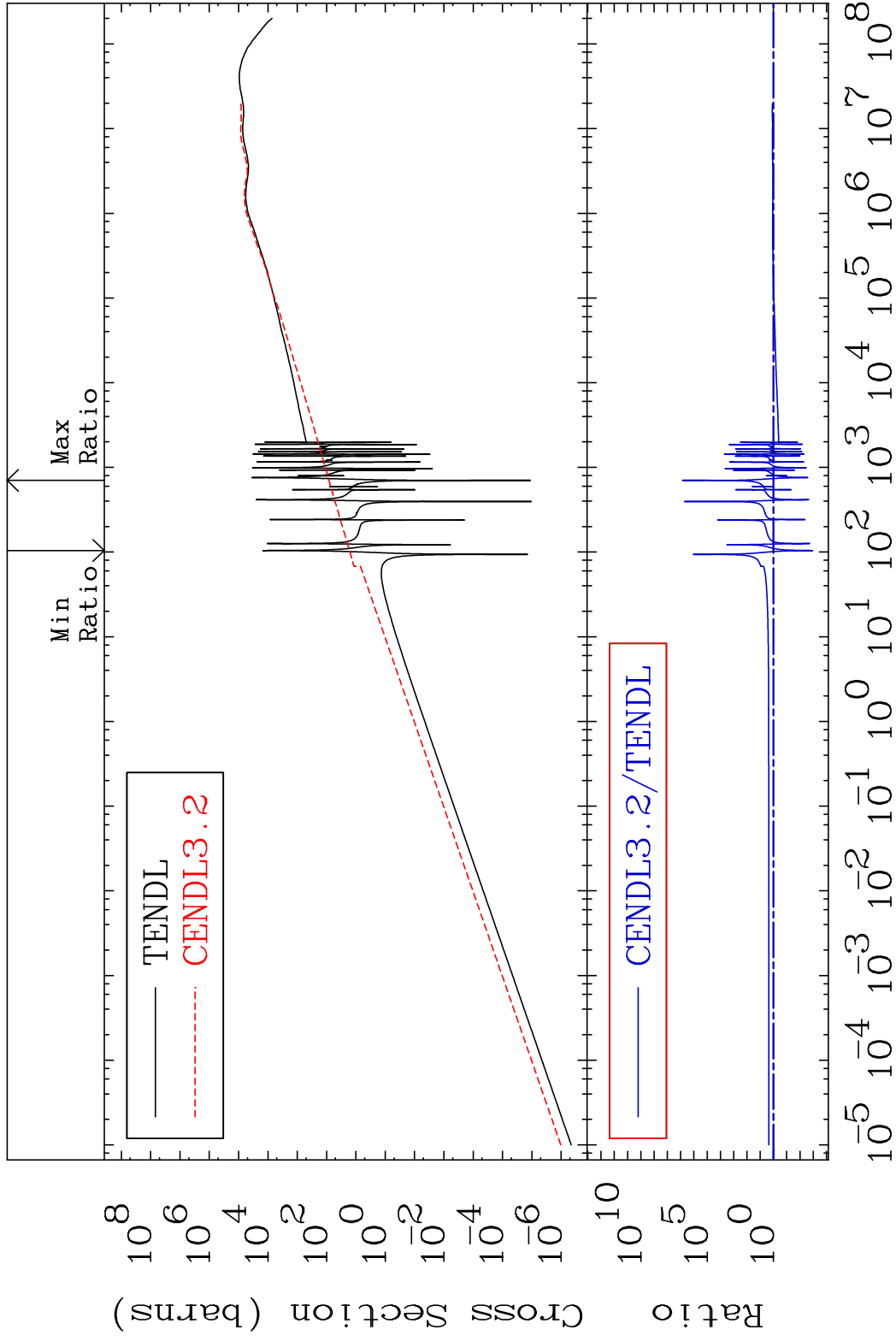
35

Incident Energy (eV)

56-Ba-132

MAT 5631

Kerma elastic Cross Section -99.89 To 9999. %  
56-Ba-132

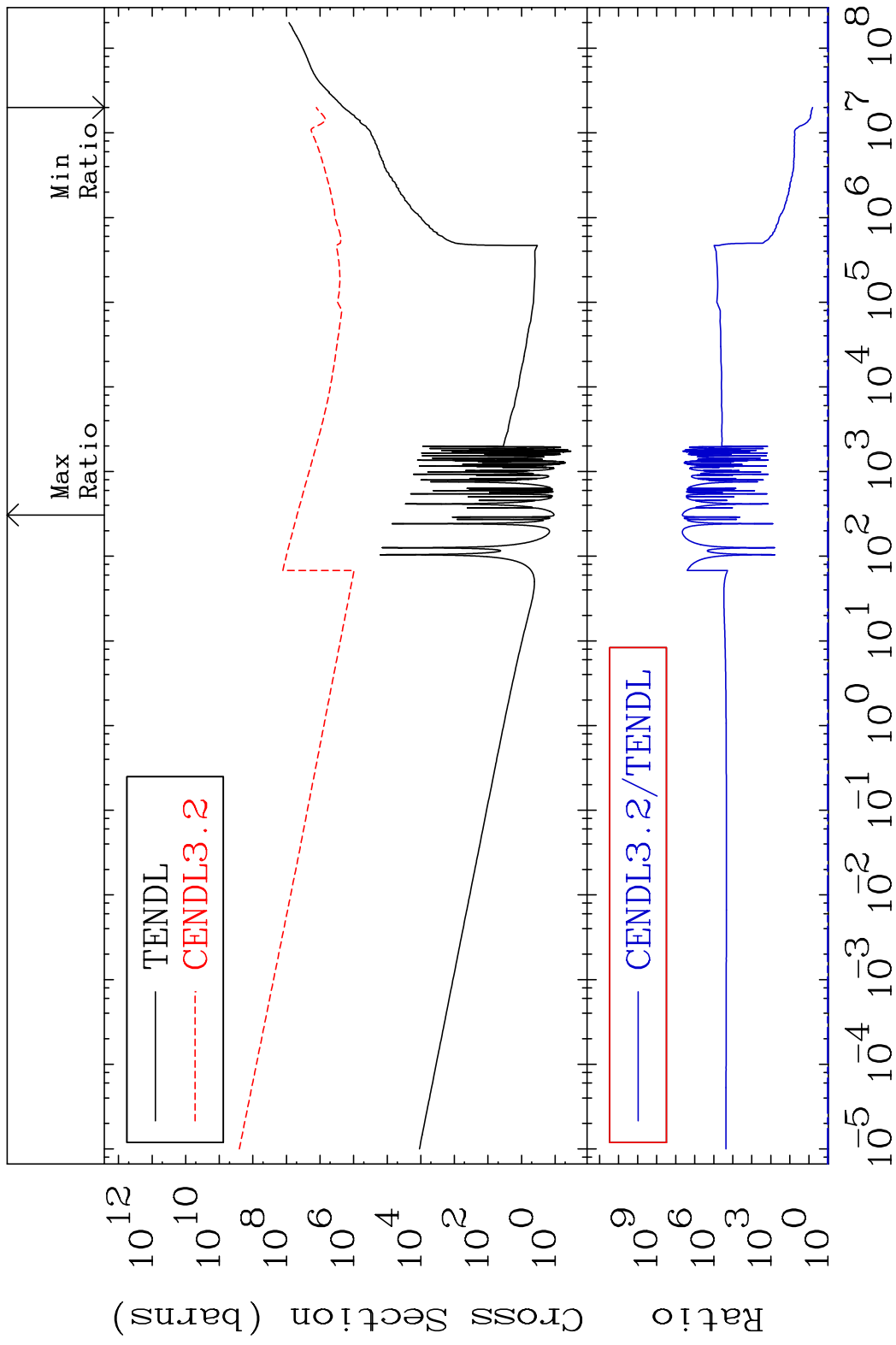


36

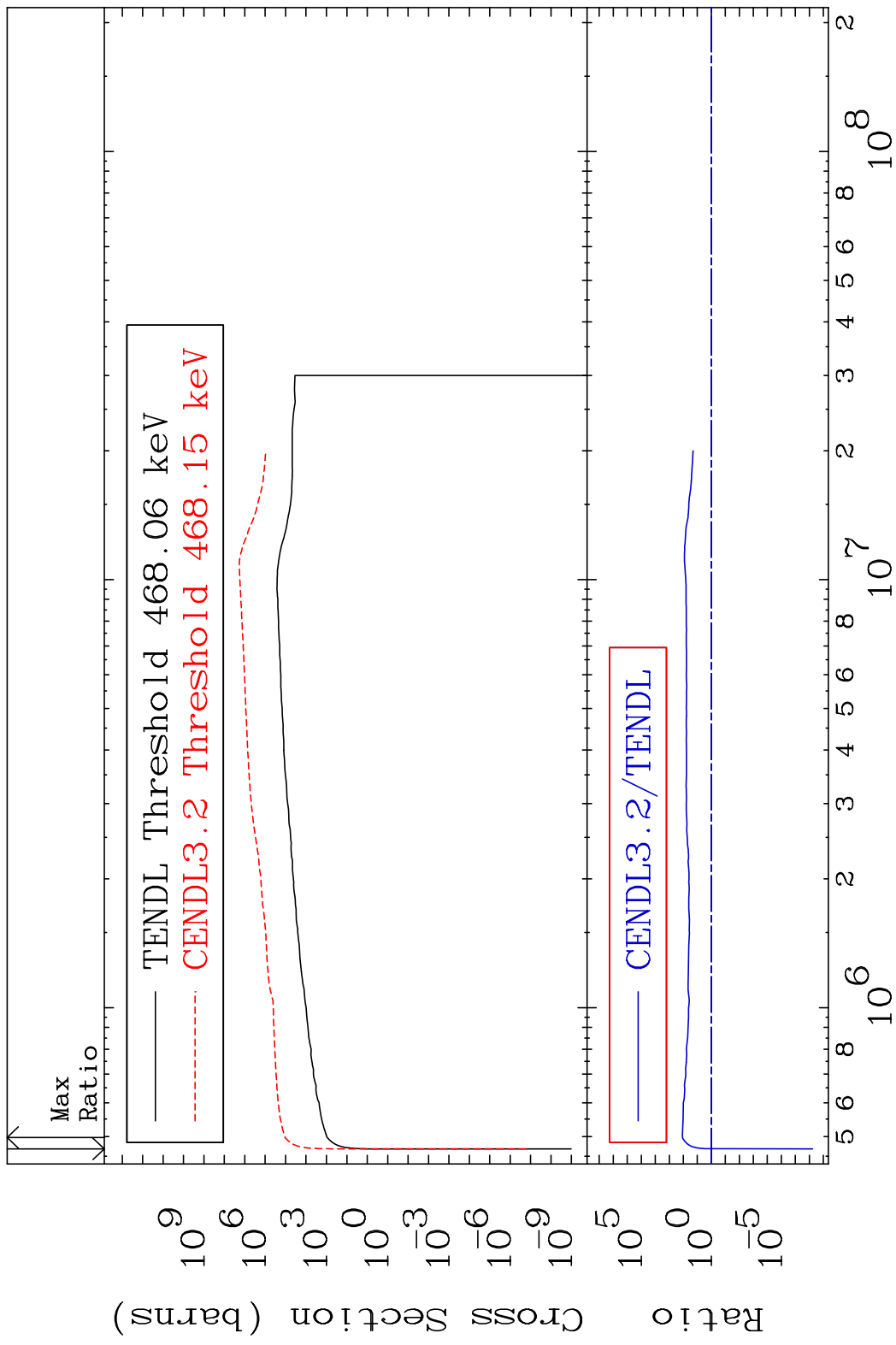
Incident Energy (eV)

56-Ba-132

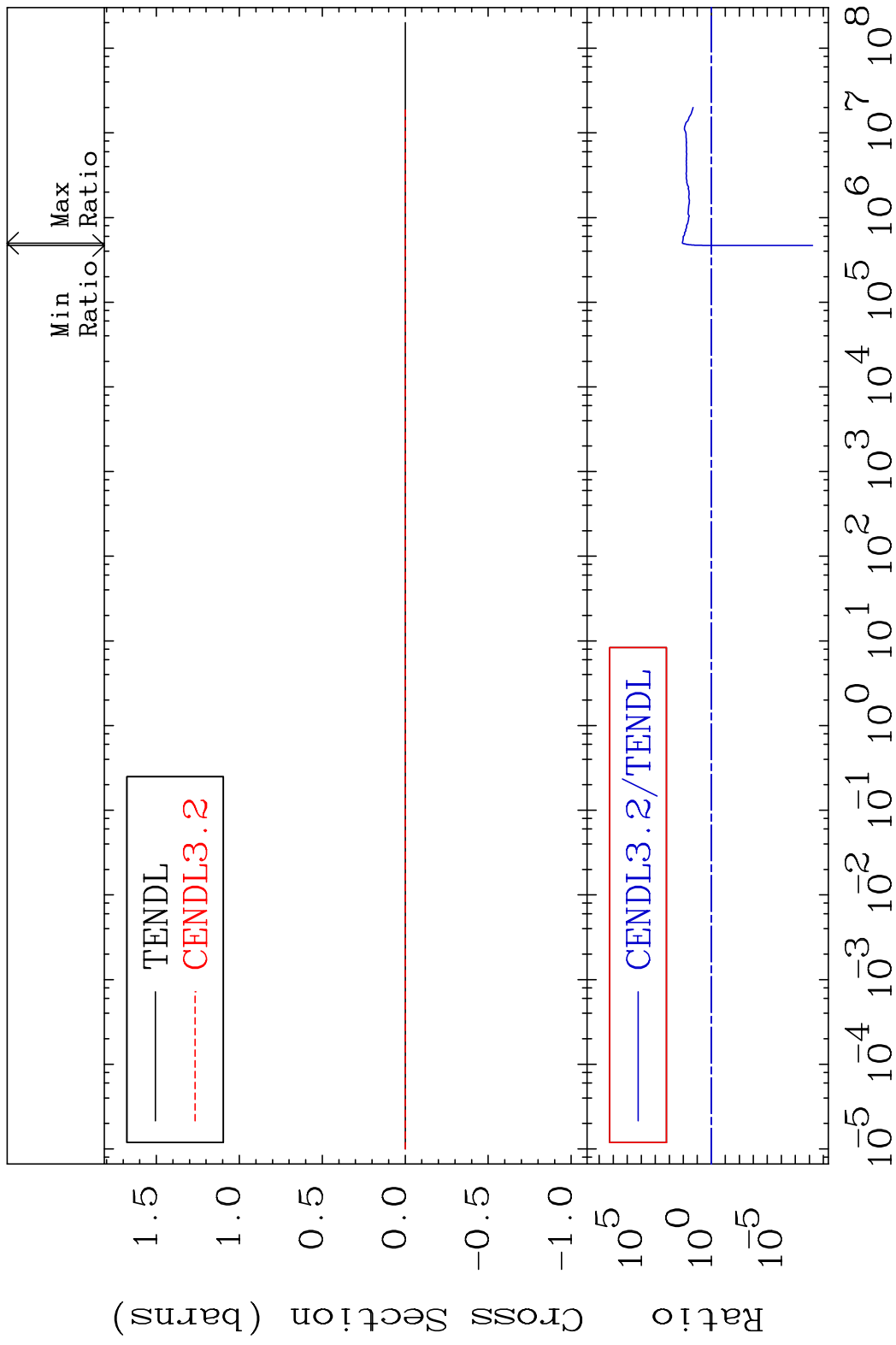
MAT 5631 Kerma non-elastic (all but mt2) 56-Ba-132  
 Cross Section 545.6 To 9999. %



MAT 5631 Kerma inelastic (mt51-91) 56-Ba-132  
 Cross Section -100.0 To 9999. %



MAT 5631 Kerma fission (mt18 or mt19-20-21-38) 56-Ba-132  
 Cross Section -100.0 To 9999. %

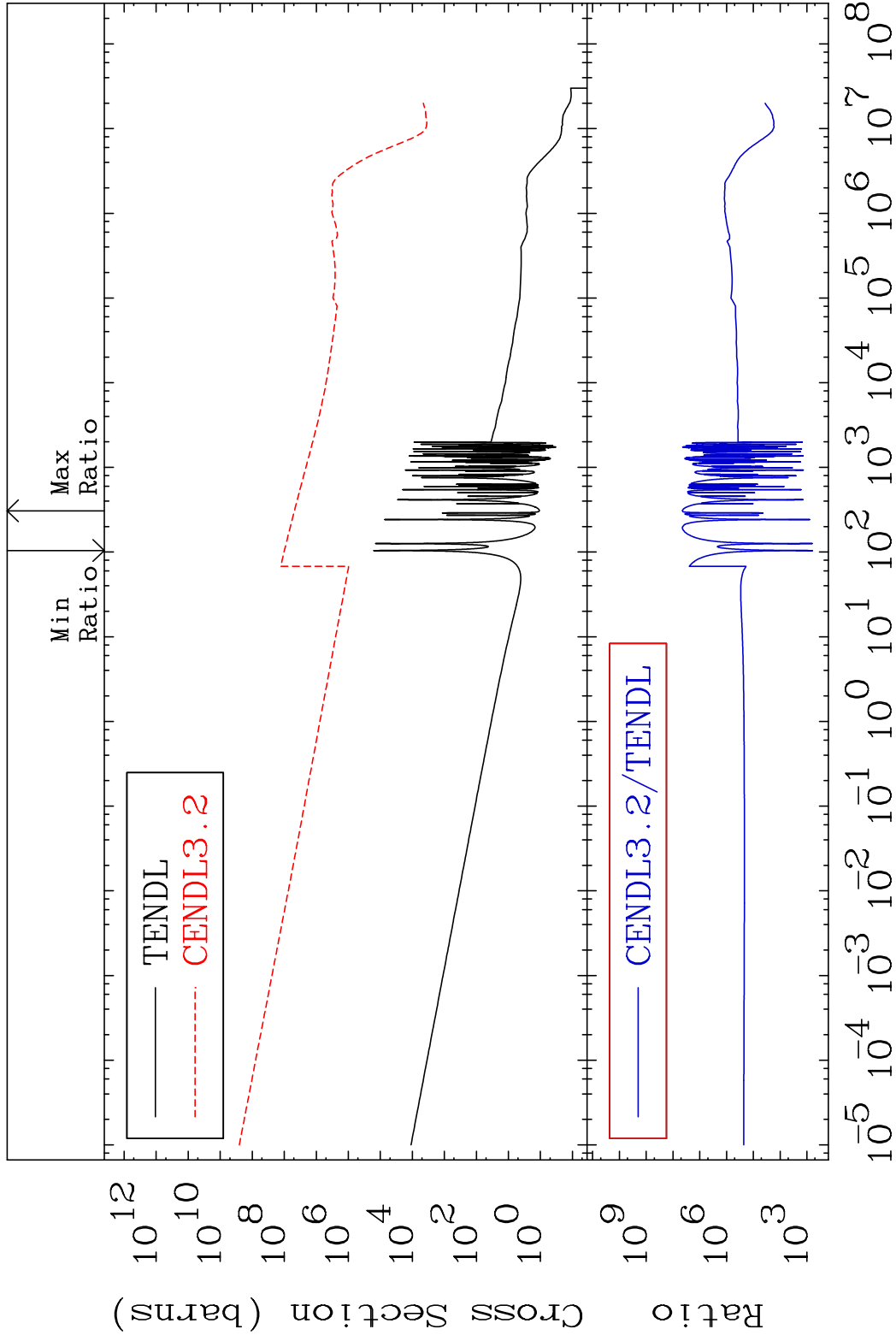


MAT 5631

Kerma capture (mt102)

56-Ba-132

Cross Section 9999. To 9999. %

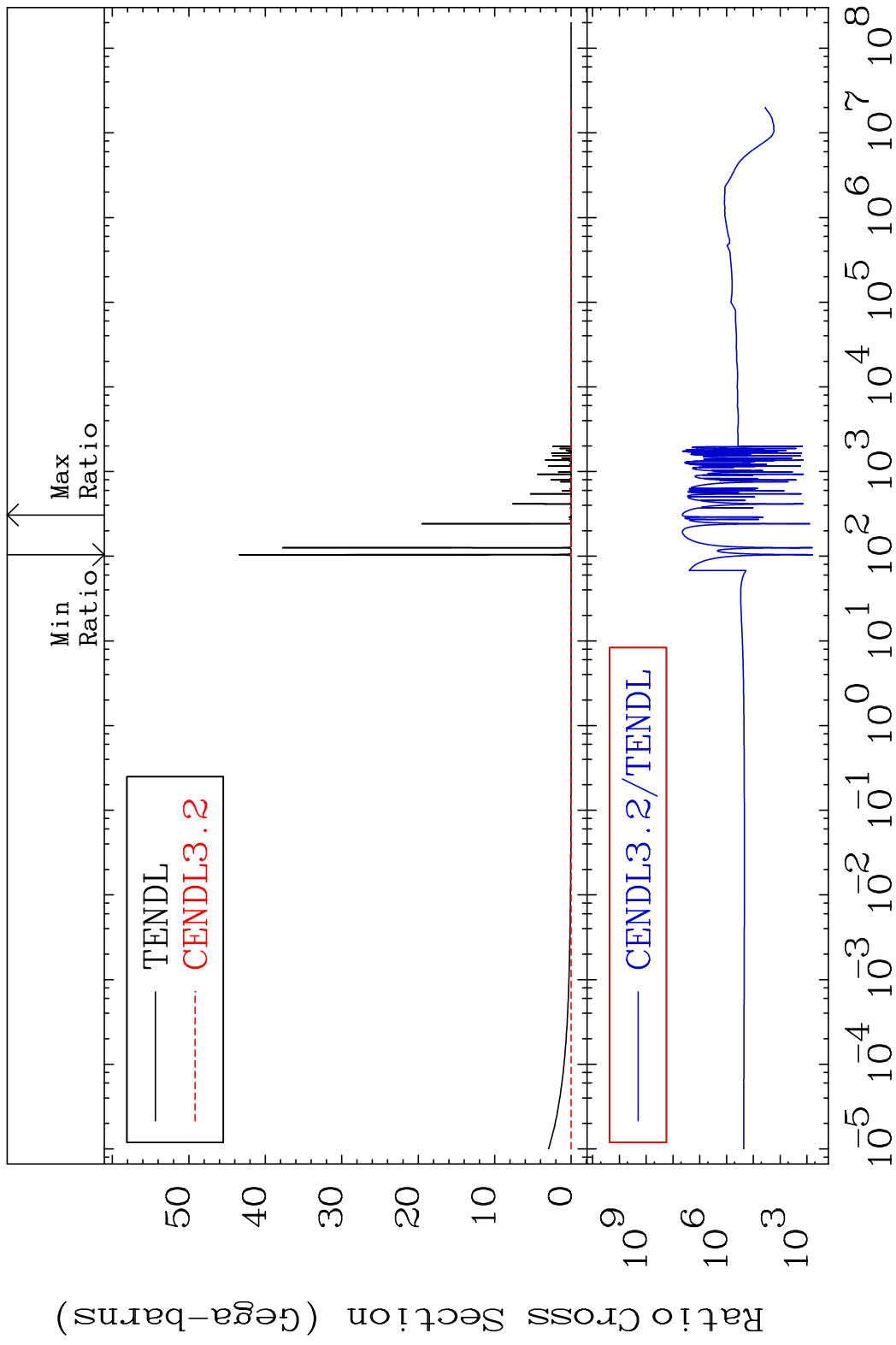


40

Incident Energy (eV)

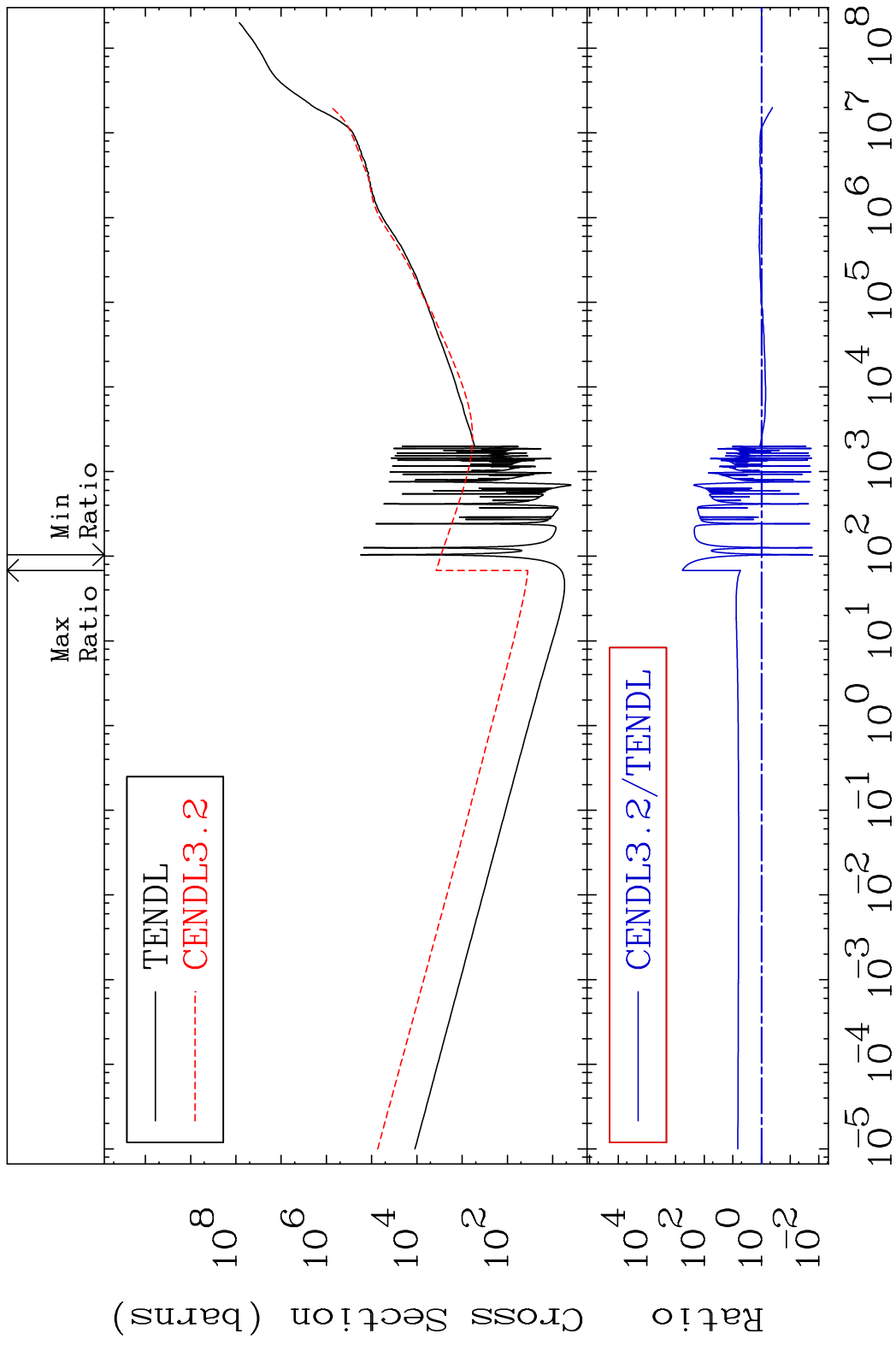
56-Ba-132

MAT 5631 Total photon (eV-barns) 56-Ba-132  
 Cross Section 9999. To 9999. %



41 Incident Energy (eV) 56-Ba-132

MAT 5631 Total kinematic kerma (high limit) 56-Ba-132  
 Cross Section -98.35 To 9999. %

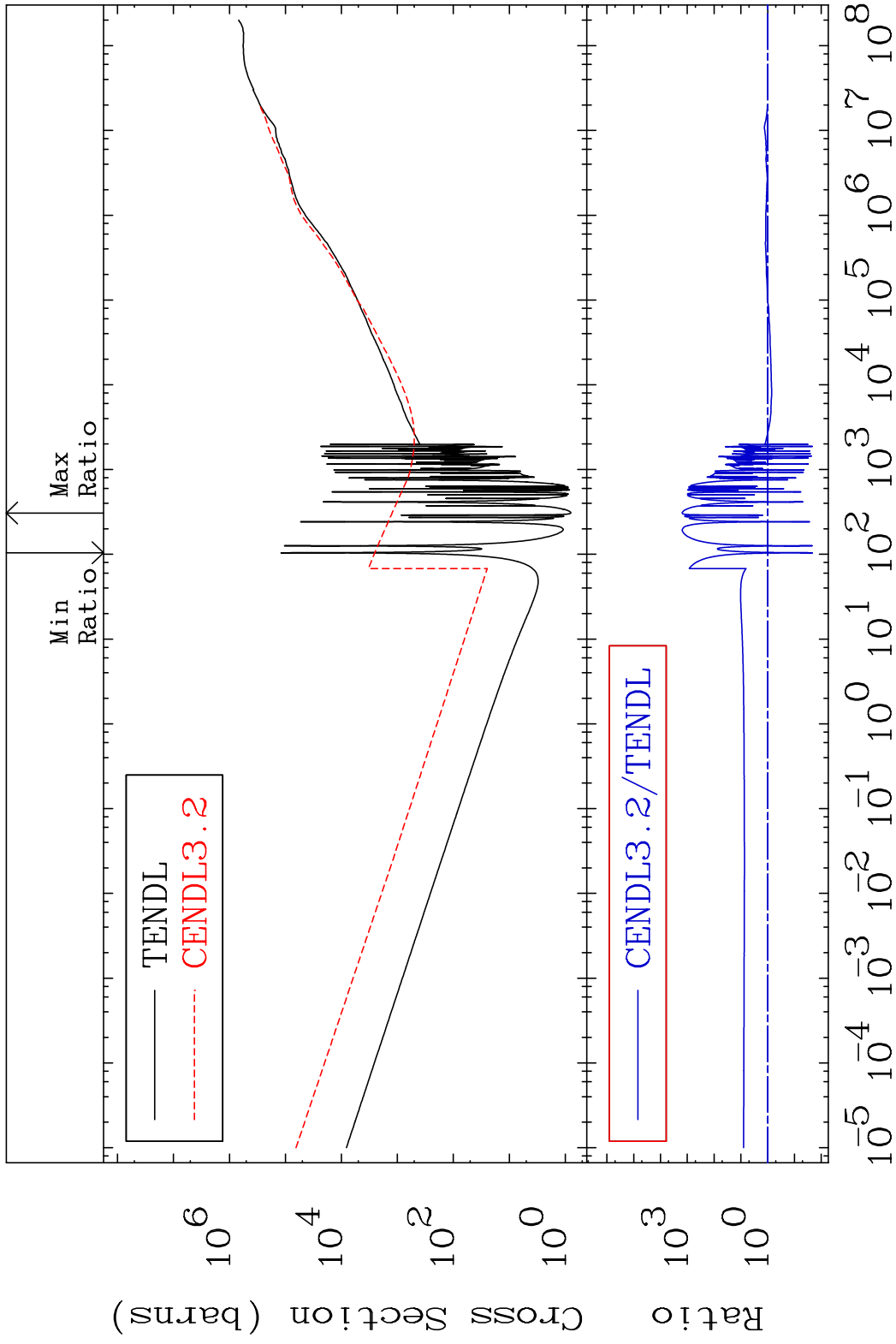


MAT 5631

Dpa total (eV-barns)

56-Ba-132

Cross Section -97.87 To 9999. %



43

Incident Energy (eV)

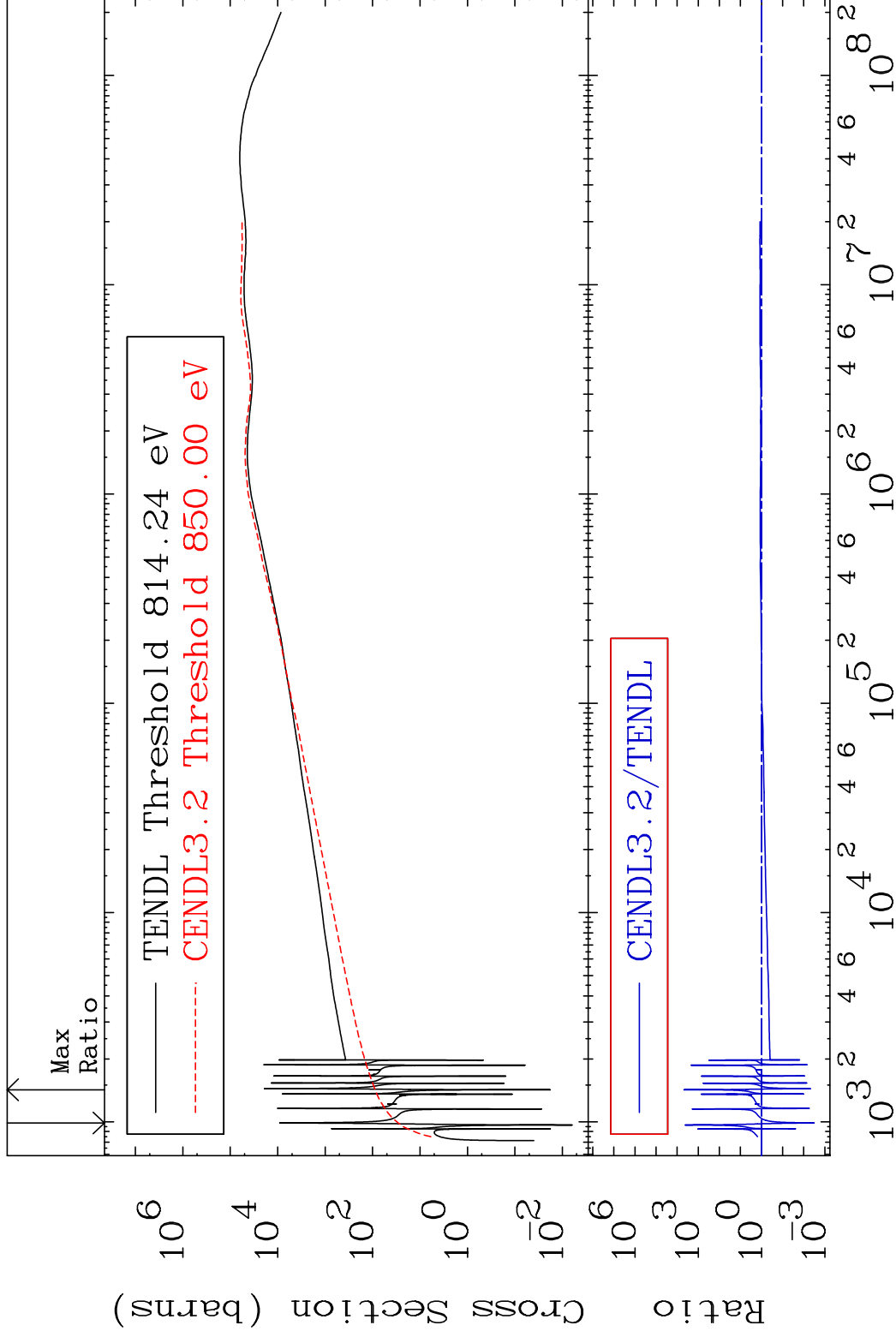
56-Ba-132

MAT 5631

Dpa elastic (mt2)

56-Ba-132

Cross Section -99.68 To 9999. %

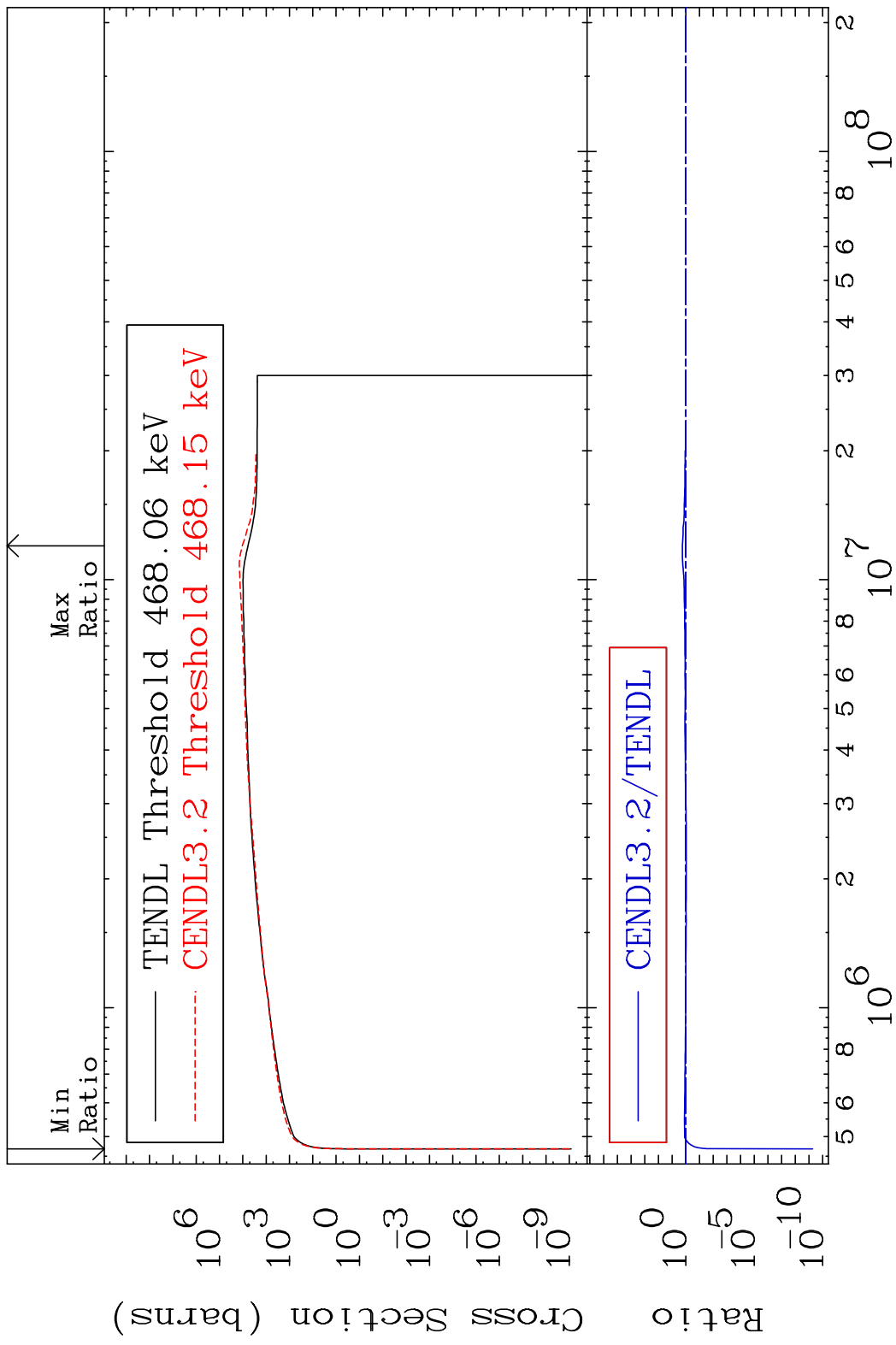


44

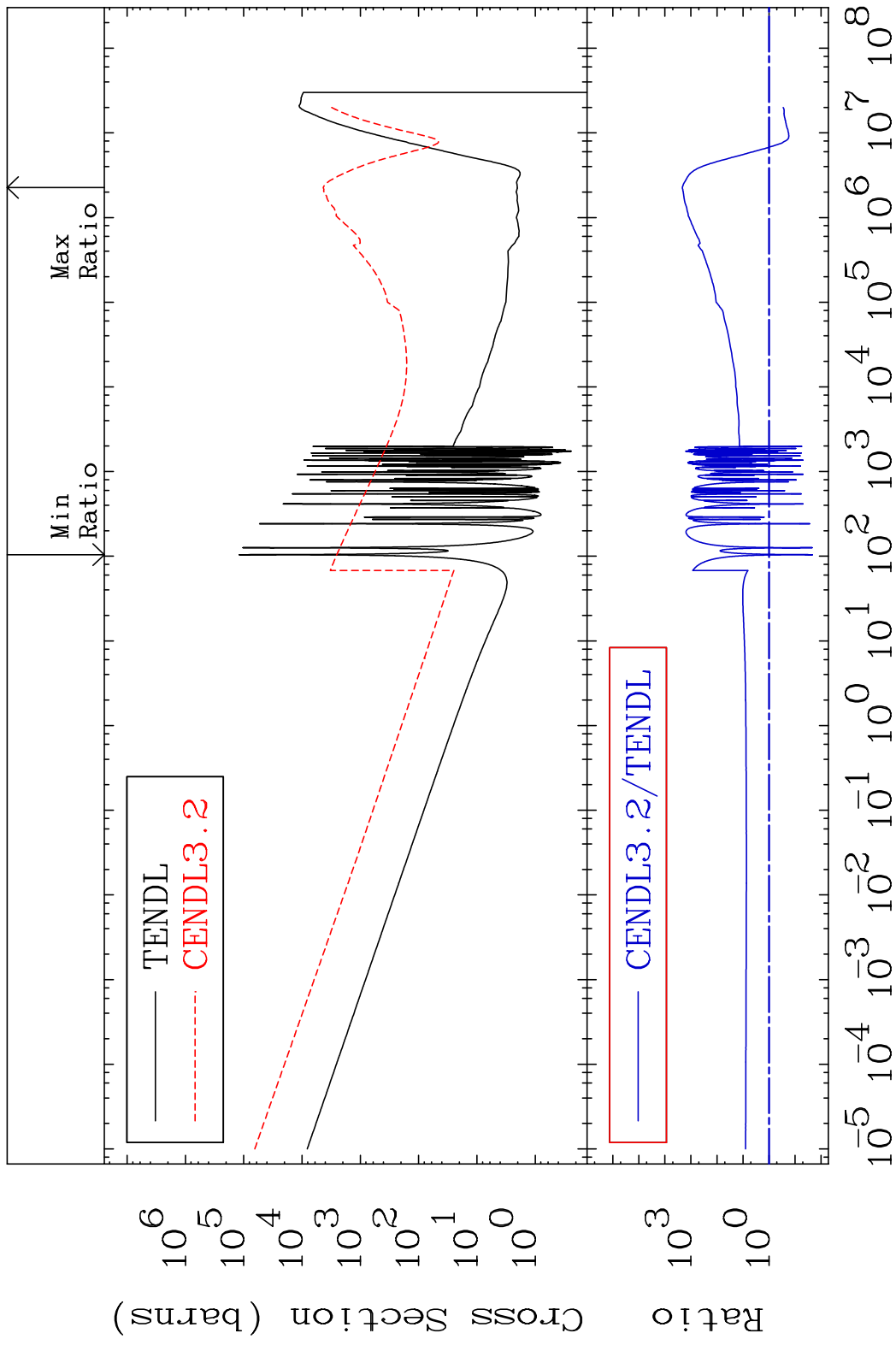
Incident Energy (eV)

56-Ba-132

MAT 5631      Dpa inelastic (mt51-91)      56-Ba-132  
 Cross Section      -100.0 To 77.11 %



MAT 5631 Dpa disappearance (mt102 -120) 56-Ba-132  
 Cross Section -97.87 To 9999. %

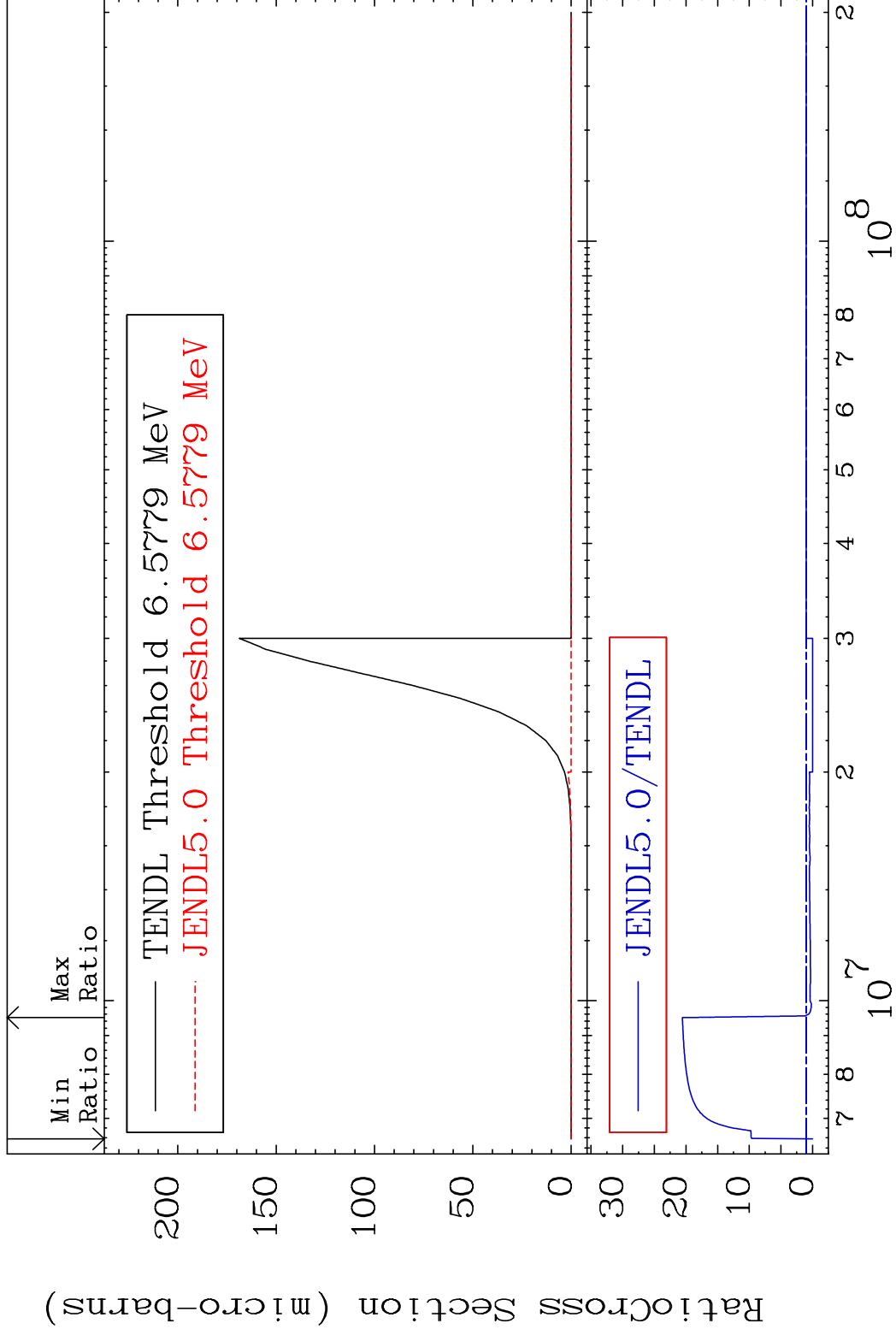


MAT 5631

(n,2p)

56-Ba-132

Cross Section -100.0 To 1957. %



47

Incident Energy (eV)

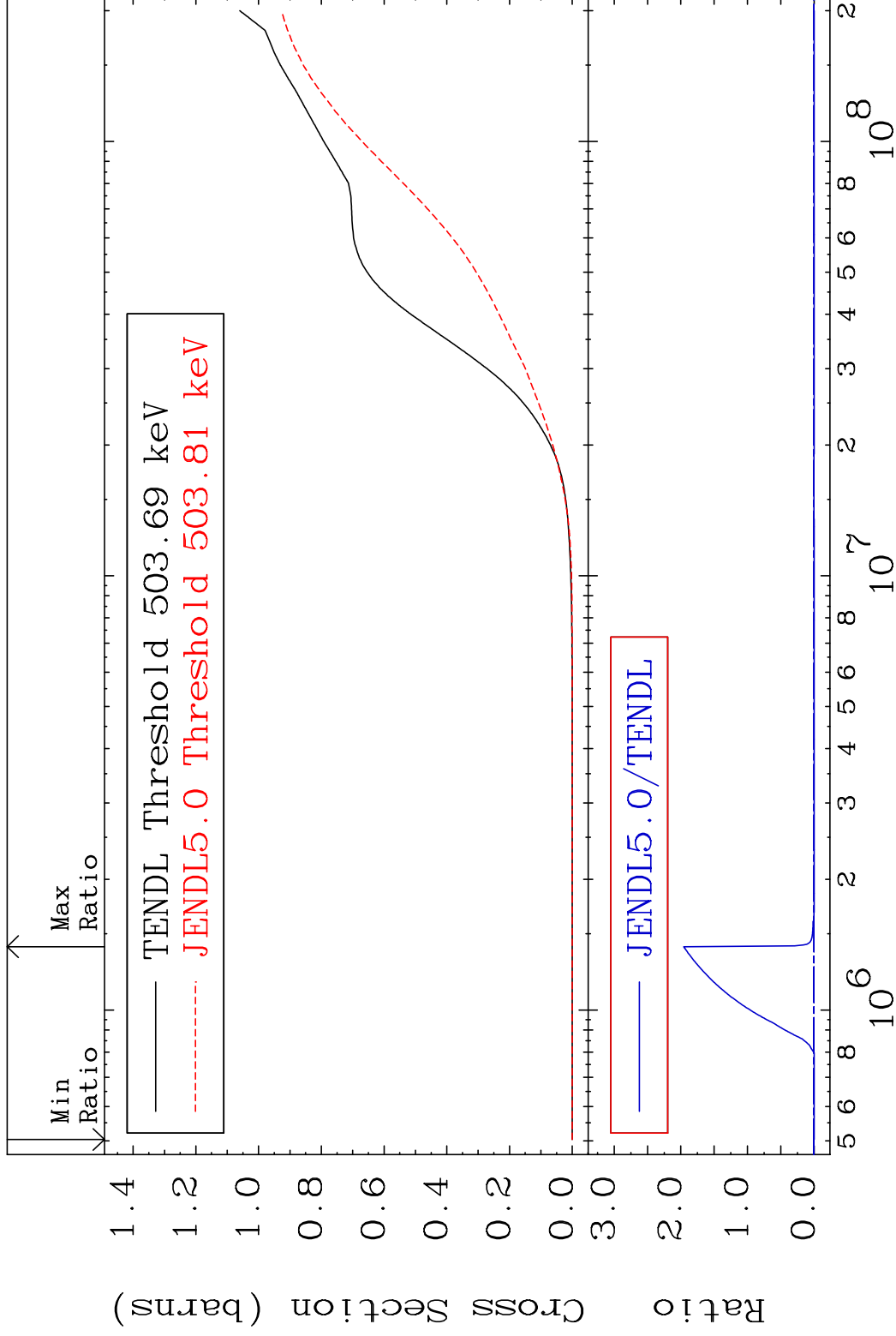
56-Ba-132

MAT 5631

Hydrogen Production

56-Ba-132

Cross Section -100.0 To 9999. %

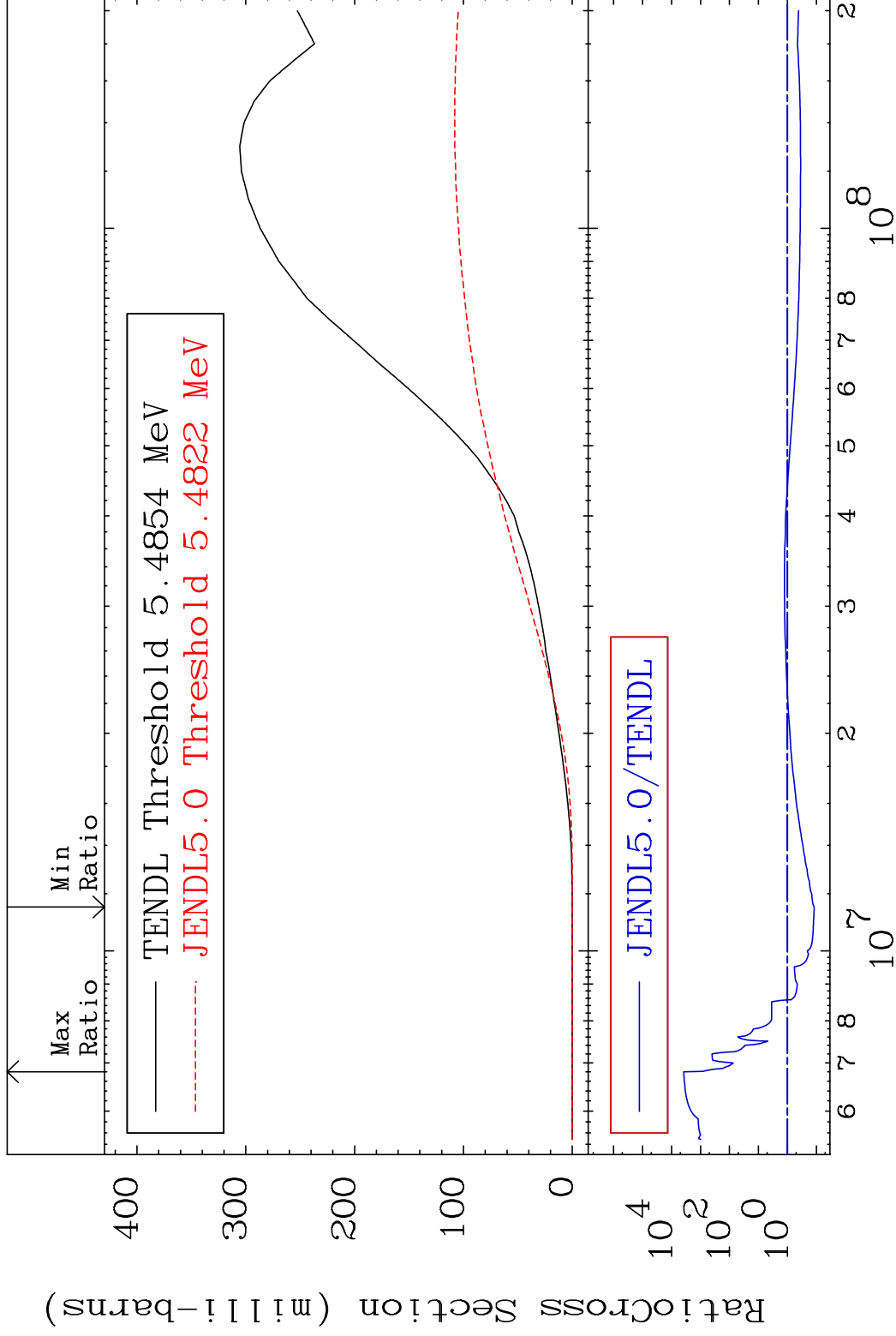


MAT 5631

Deuterium Production

56-Ba-132

Cross Section -87.97 To 9999. %

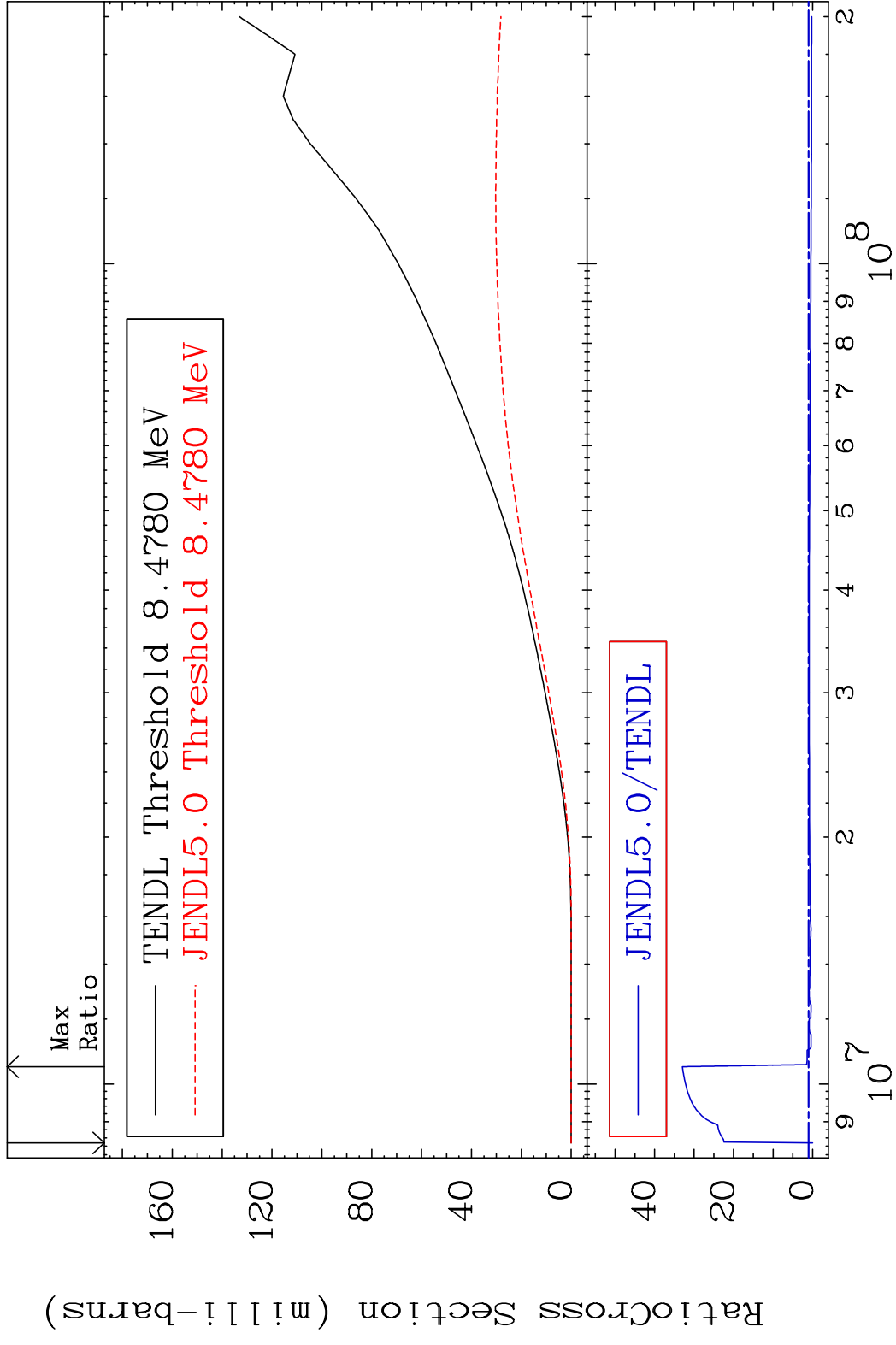


49

Incident Energy (eV)

56-Ba-132

MAT 5631 Tritium Production 56-Ba-132  
 Cross Section -100.0 To 3197. %



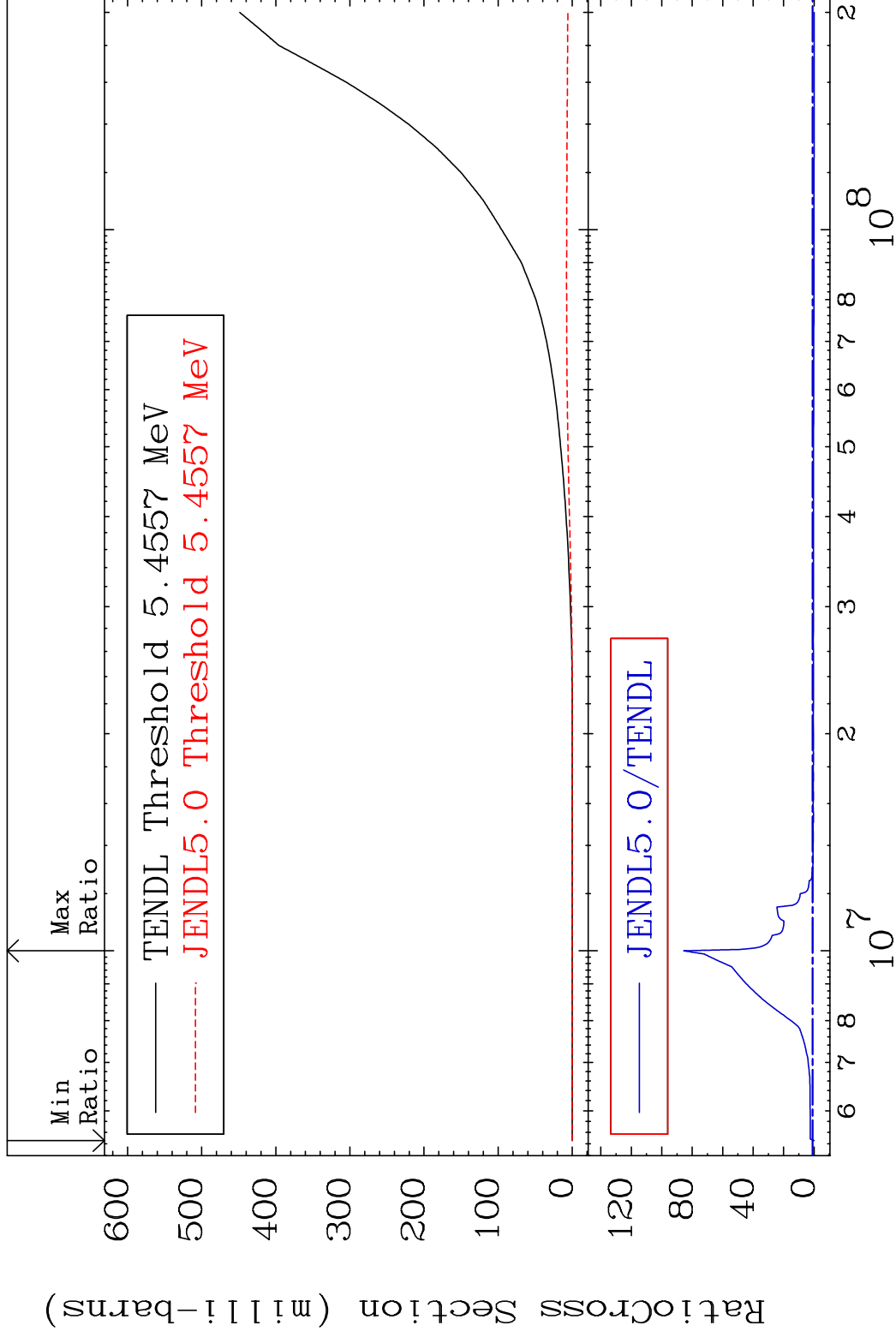
50 Incident Energy (eV) 56-Ba-132

MAT 5631

He-3 Production

56-Ba-132

Cross Section -100.0 To 8464. %



51

Incident Energy (eV)

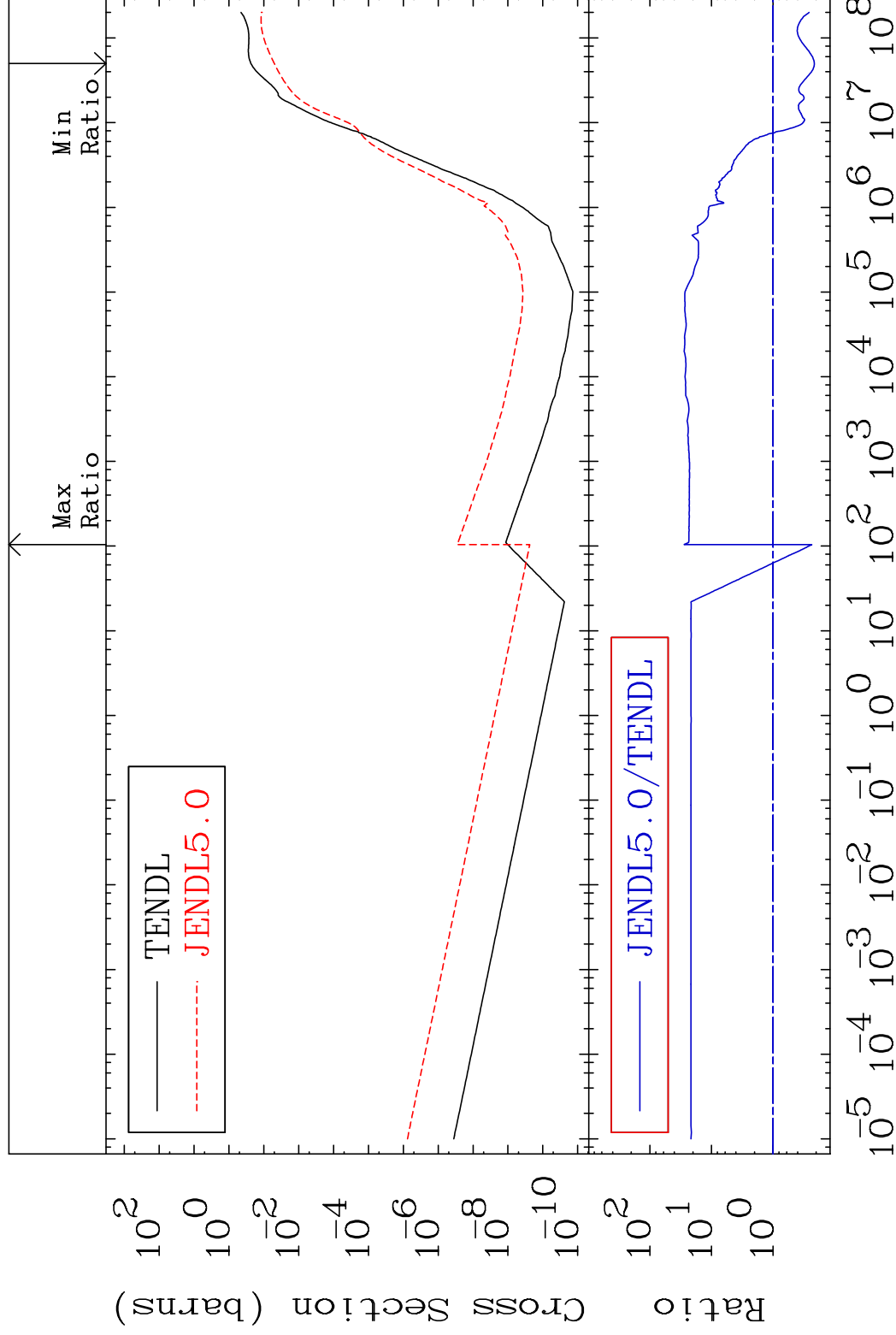
56-Ba-132

MAT 5631

He-4 Production

56-Ba-132

Cross Section -78.54 To 2682. %

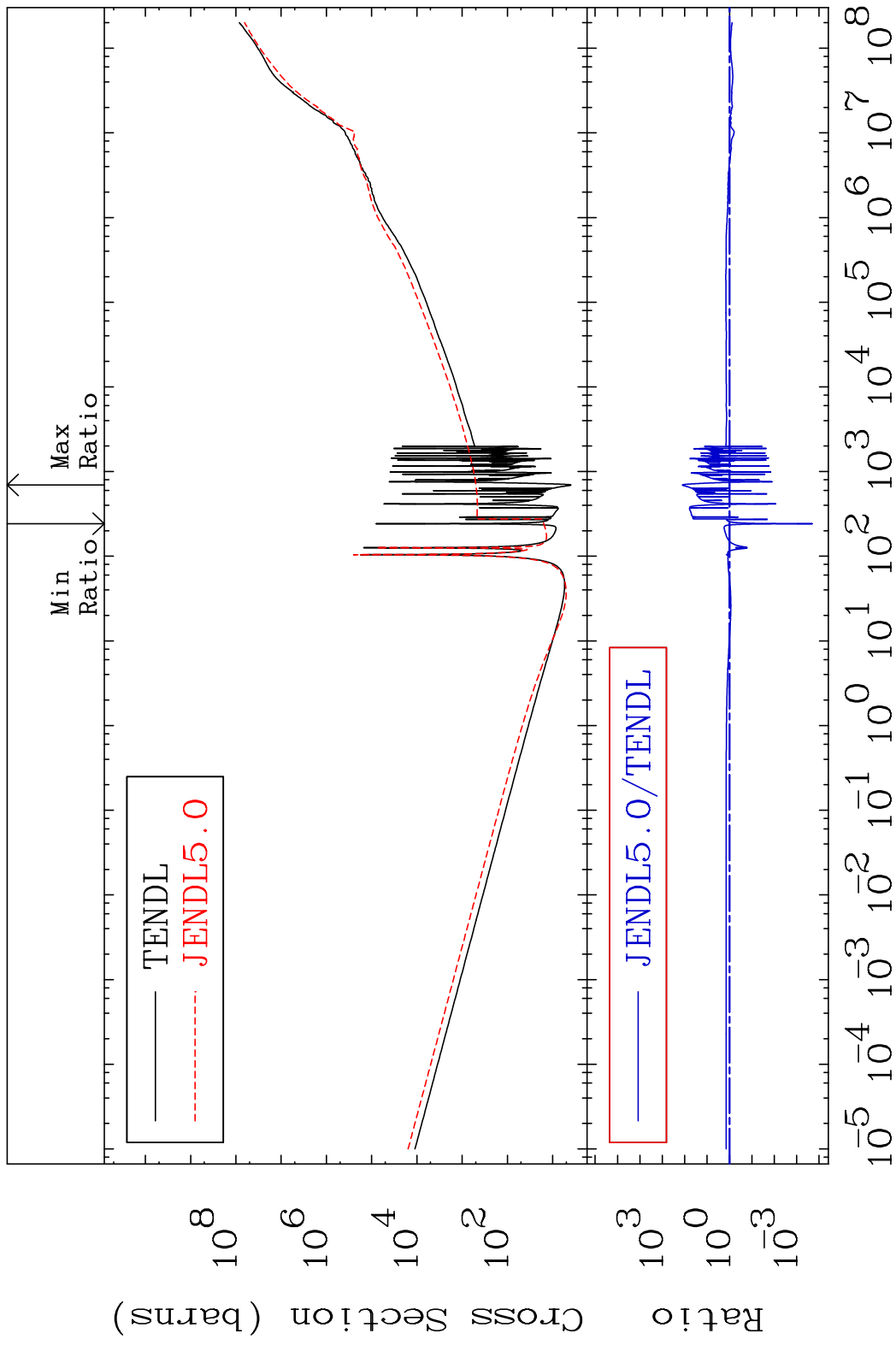


52

Incident Energy (eV)

56-Ba-132

MAT 5631 Kerma total (eV-barns) 56-Ba-132  
 Cross Section -99.98 To 9999. %



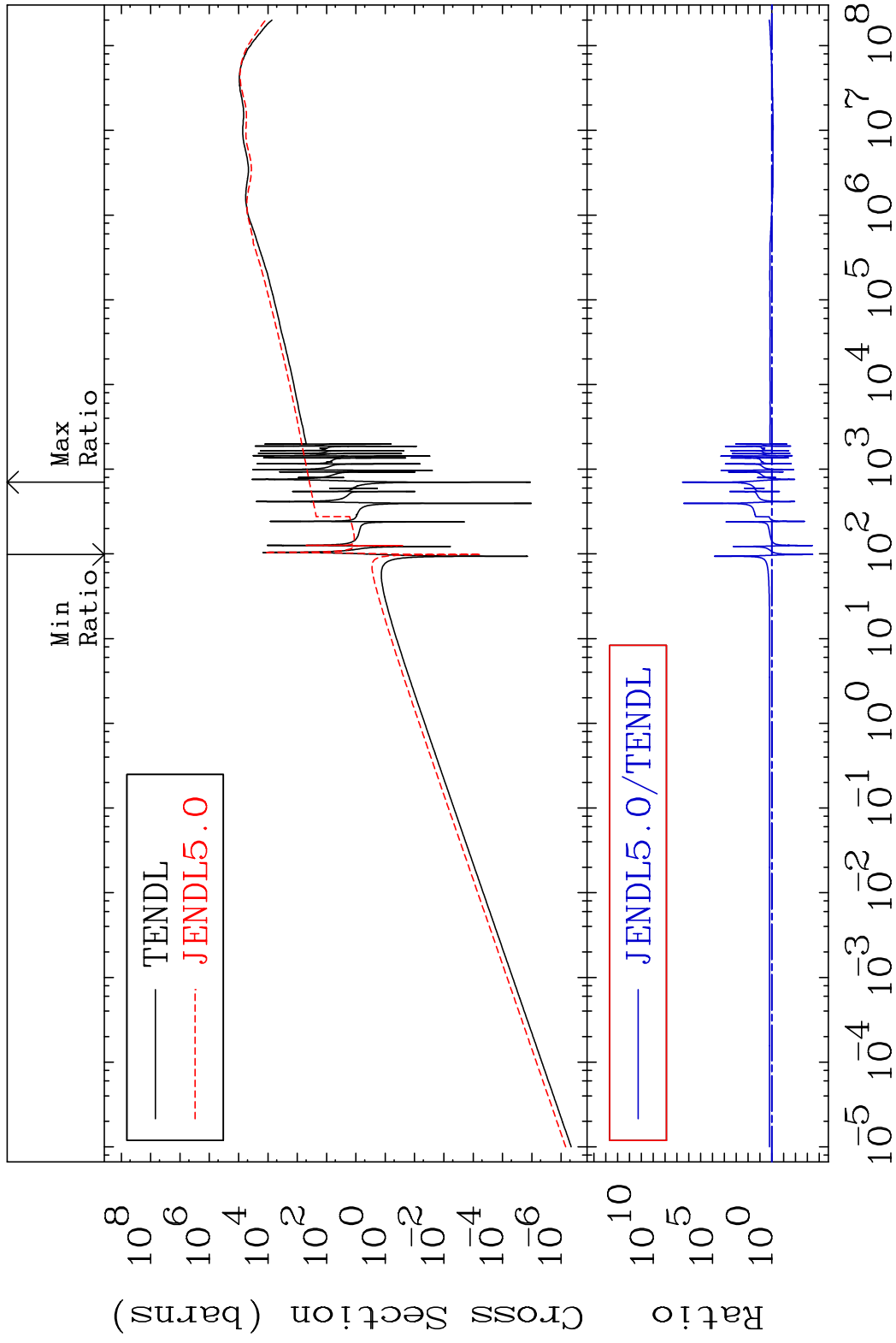
53 Incident Energy (eV) 56-Ba-132

MAT 5631

Kerma elastic

56-Ba-132

Cross Section -99.96 To 9999. %

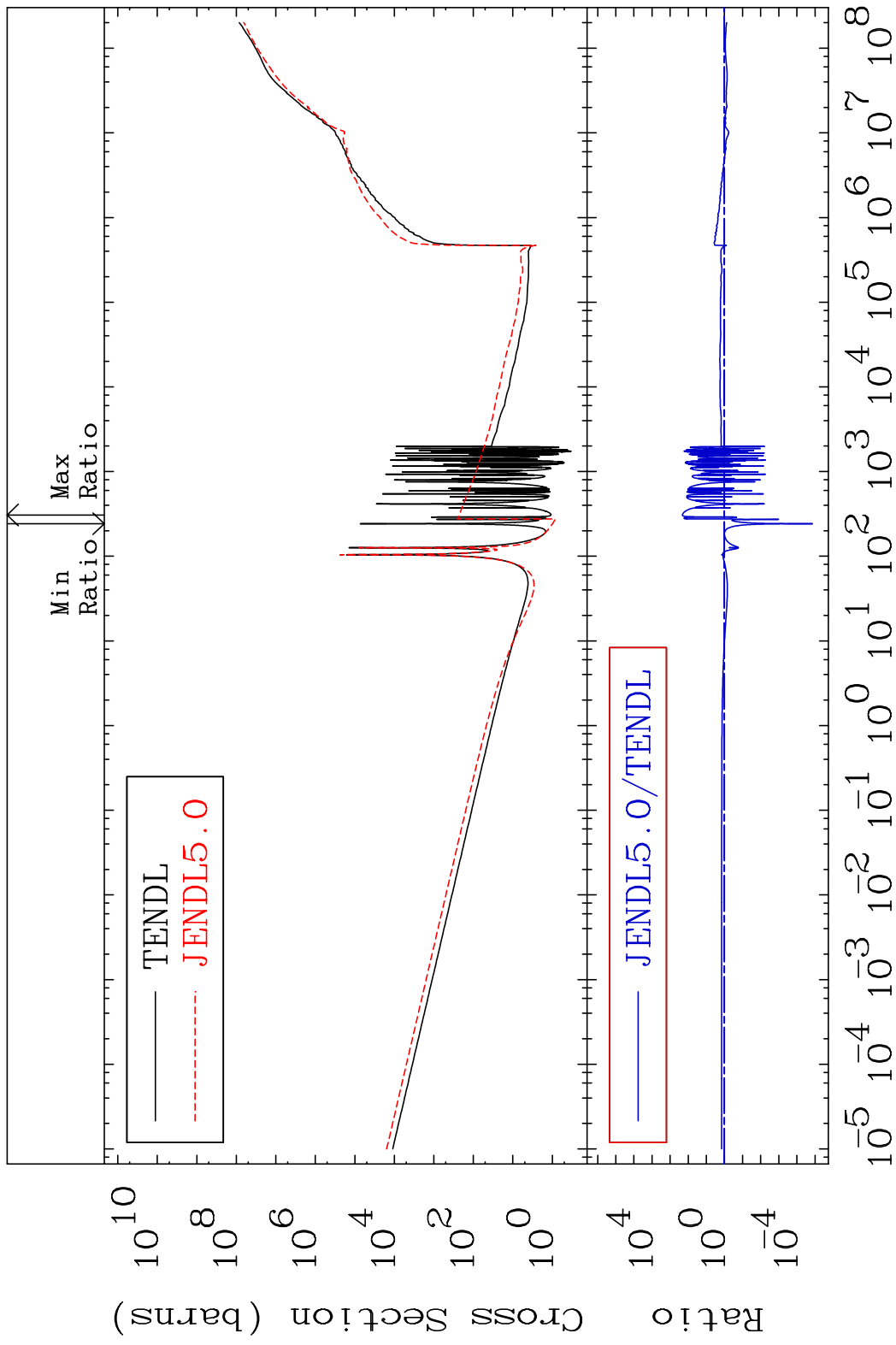


54

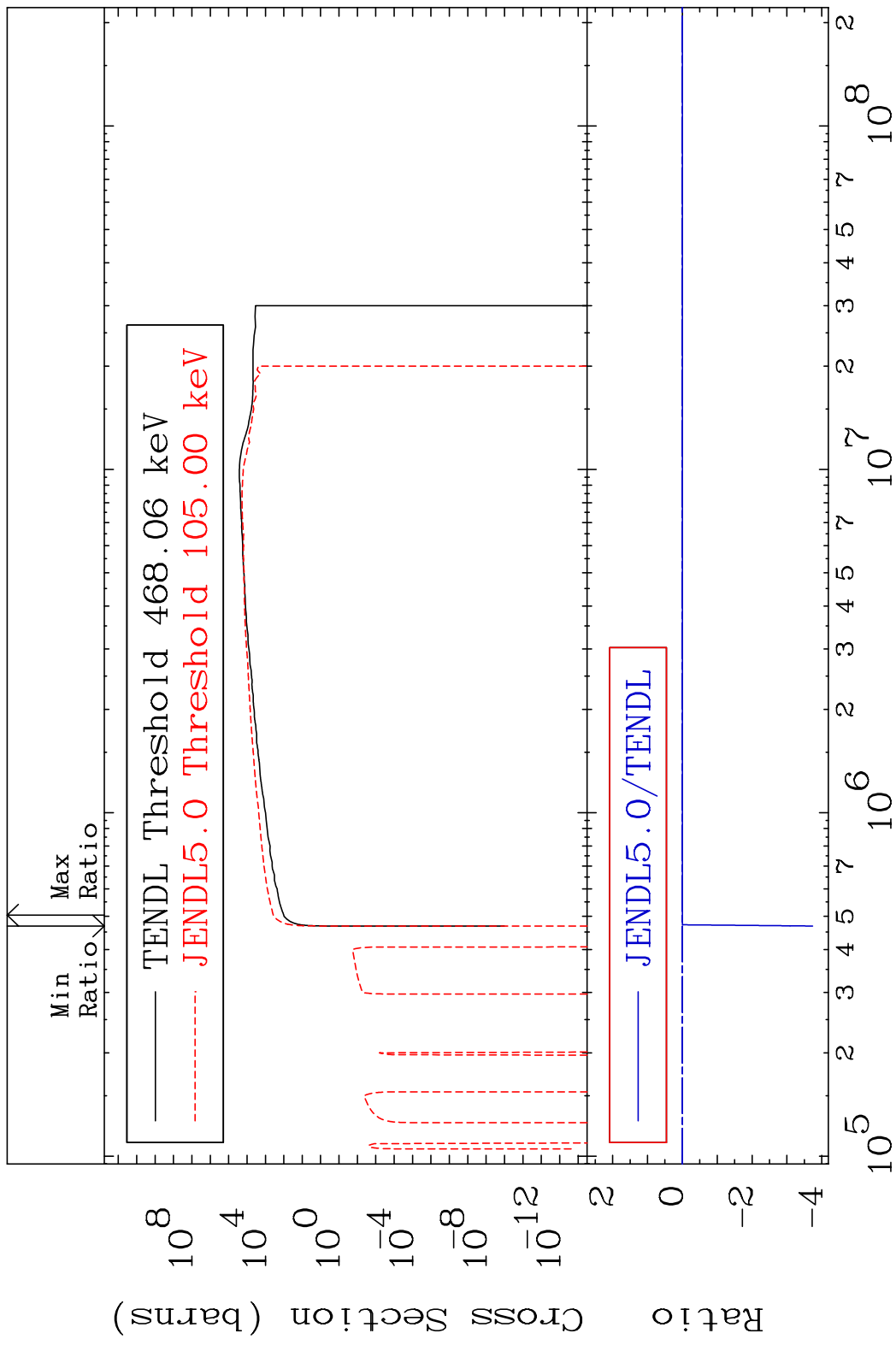
Incident Energy (eV)

56-Ba-132

MAT 5631 Kerma non-elastic (all but mt2) 56-Ba-132  
 Cross Section -100.0 To 9999. %

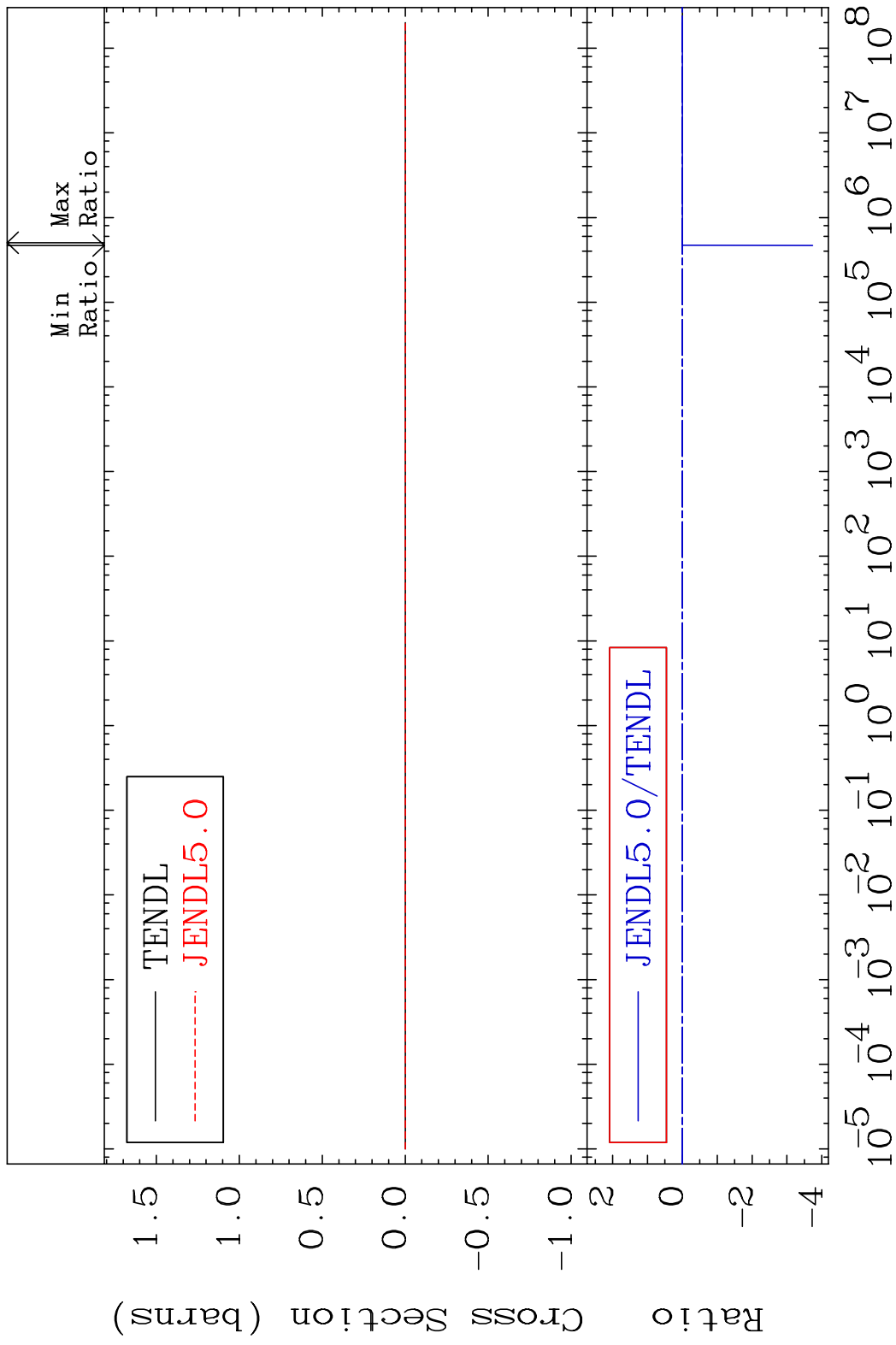


MAT 5631 Kerma inelastic (mt51-91) 56-Ba-132  
 Cross Section -9999. To 272.2 %



56 Incident Energy (eV) 56-Ba-132

MAT 5631 Kerma fission (mt18 or mt19-20-21-38) 56-Ba-132  
 Cross Section -9999. To 272.2 %

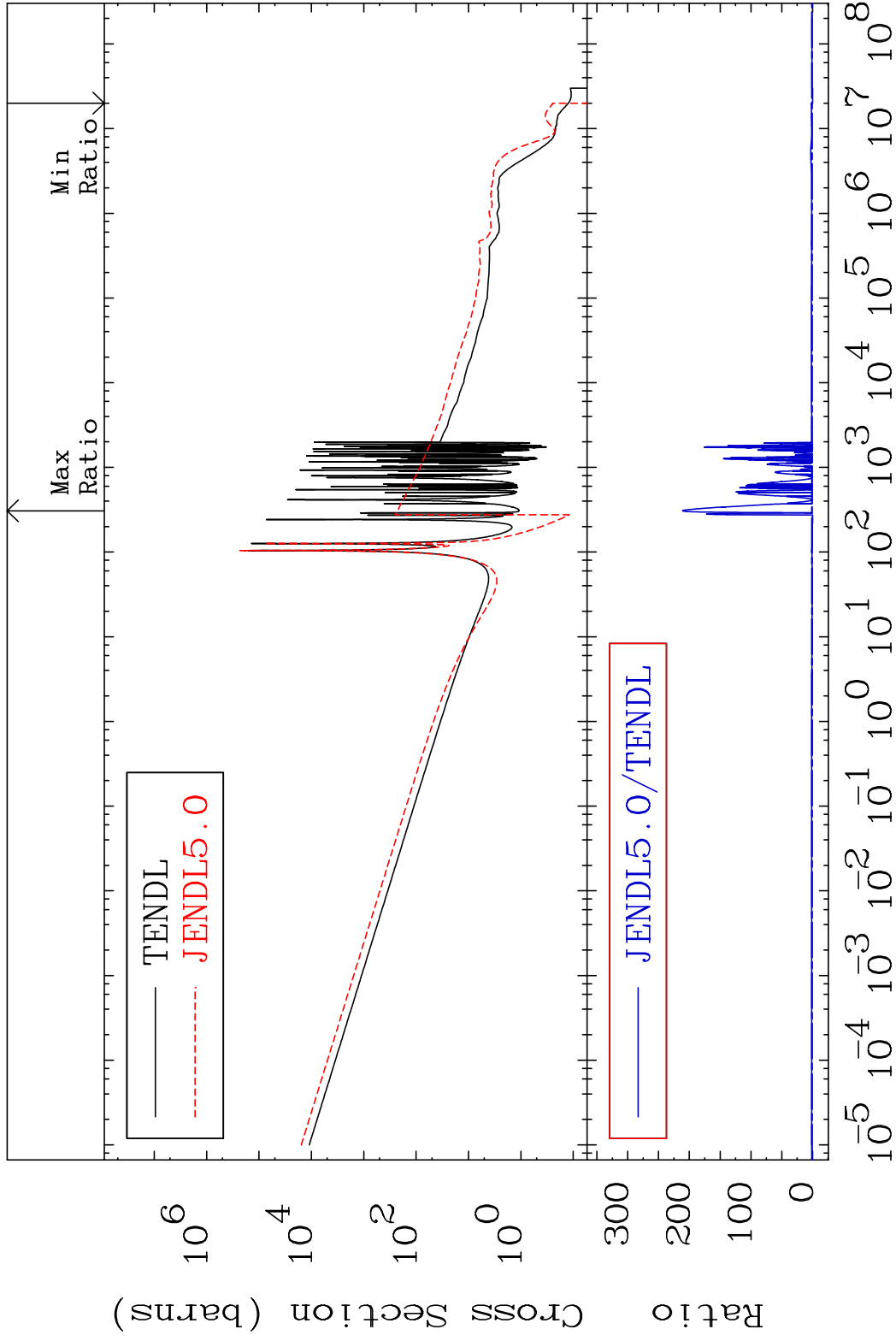


MAT 5631

Kerma capture (mt102)

56-Ba-132

Cross Section -100.0 To 9999. %

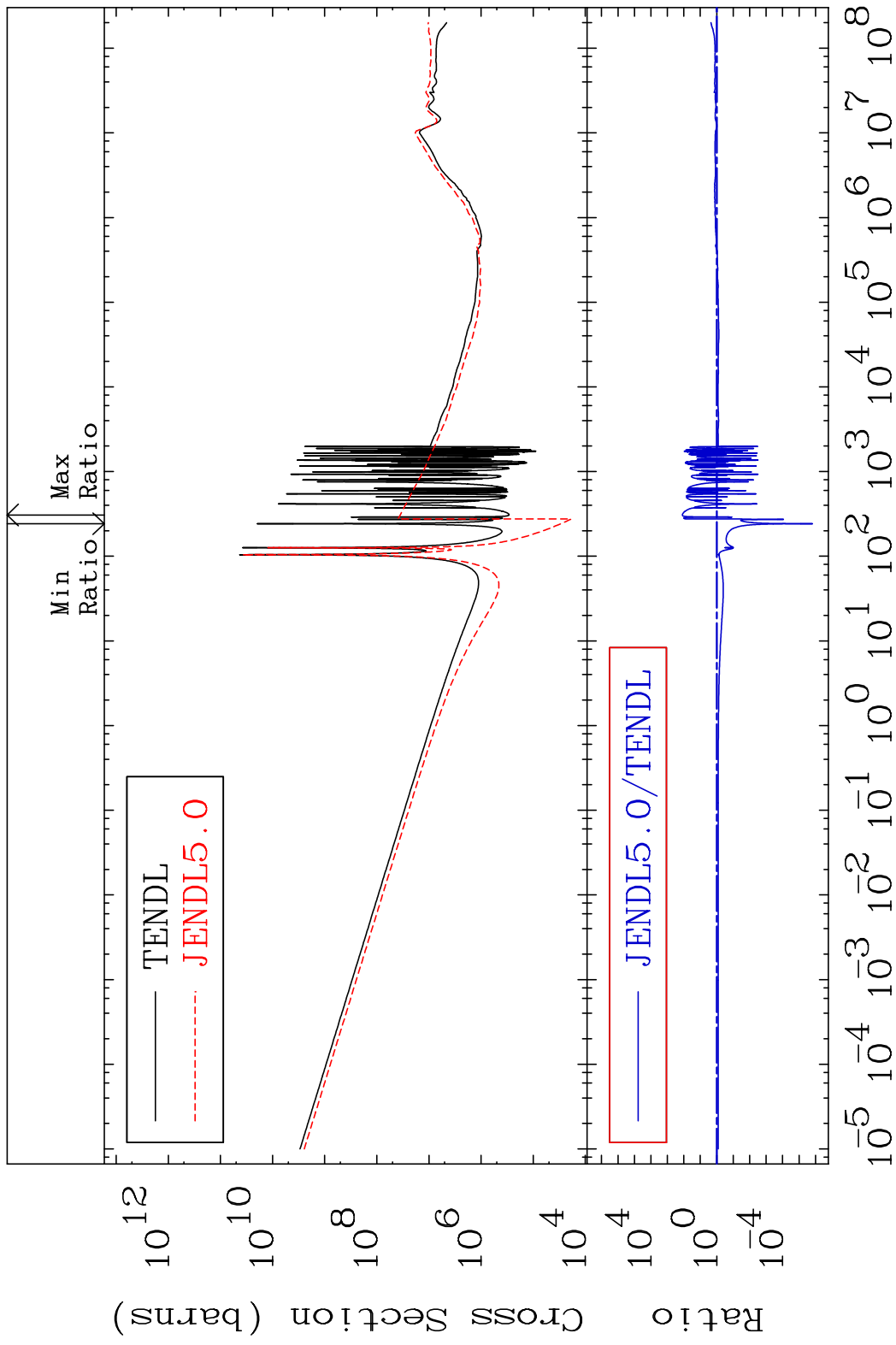


58

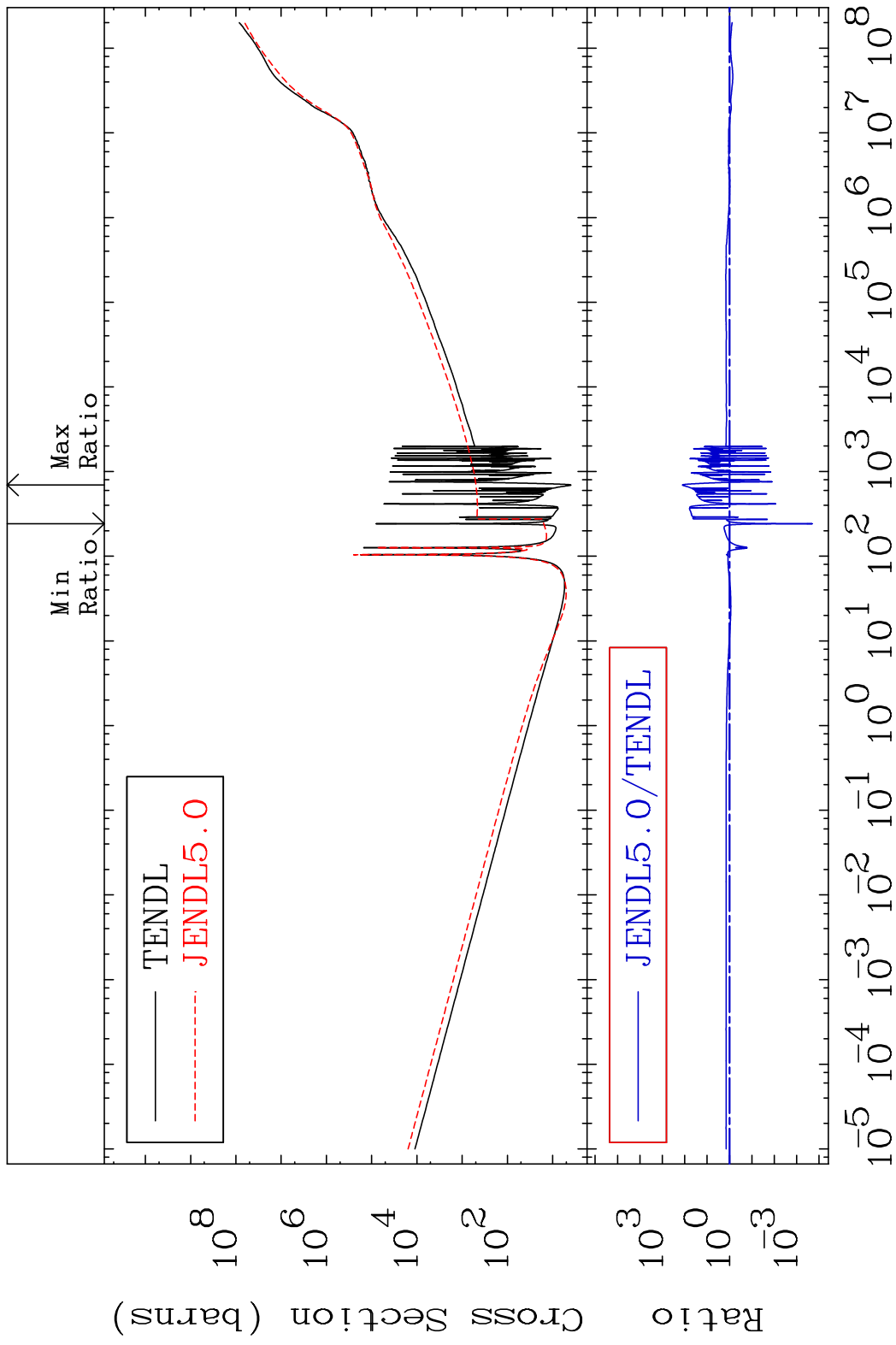
Incident Energy (eV)

56-Ba-132

MAT 5631 Total photon (eV-barns) 56-Ba-132  
Cross Section -100.0 To 9999. %



MAT 5631 Total kinematic kerma (high limit) 56-Ba-132  
Cross Section -99.98 To 9999. %

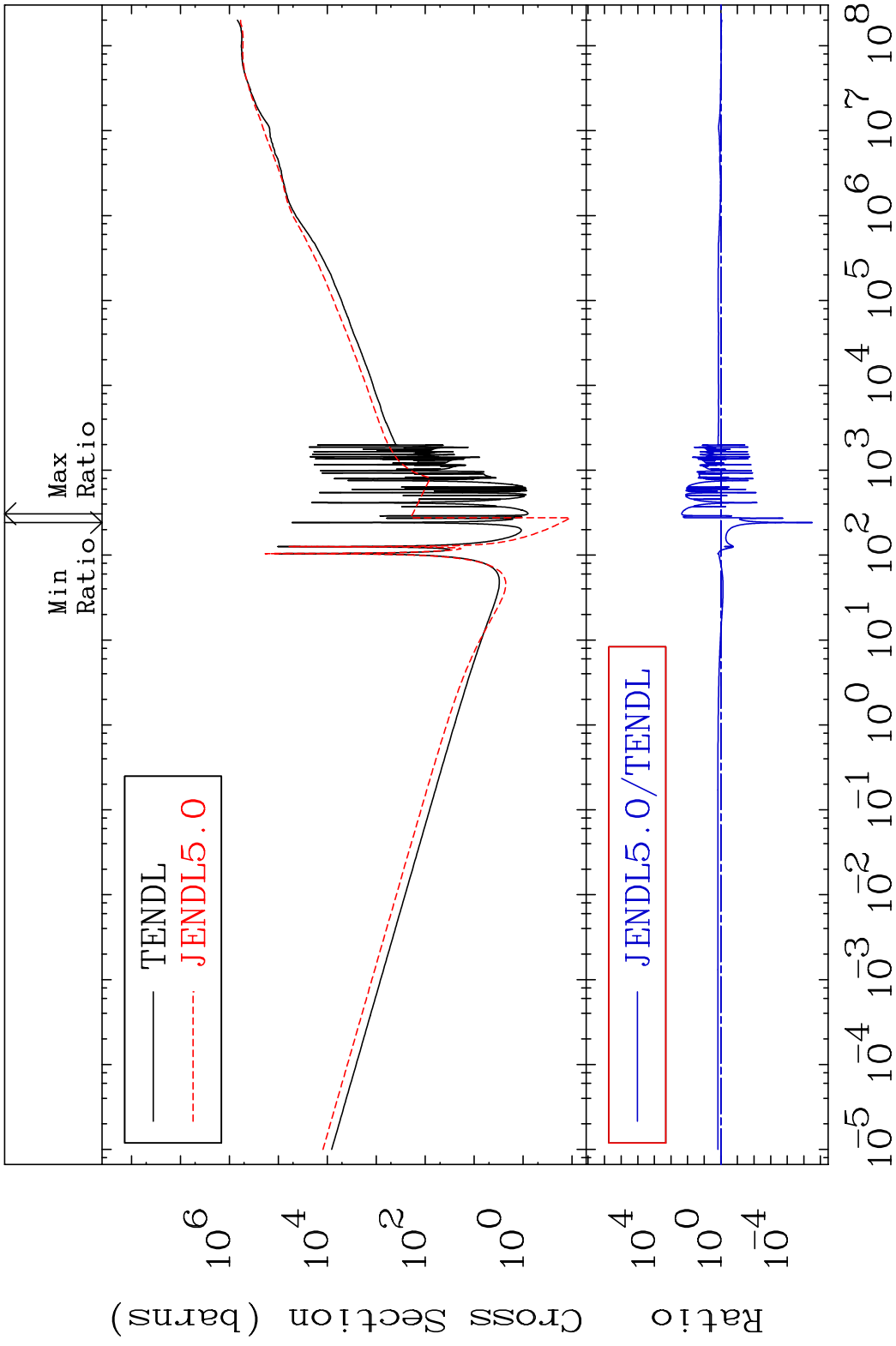


MAT 5631

Dpa total (eV-barns)

56-Ba-132

Cross Section -100.0 To 9999. %



61

Incident Energy (eV)

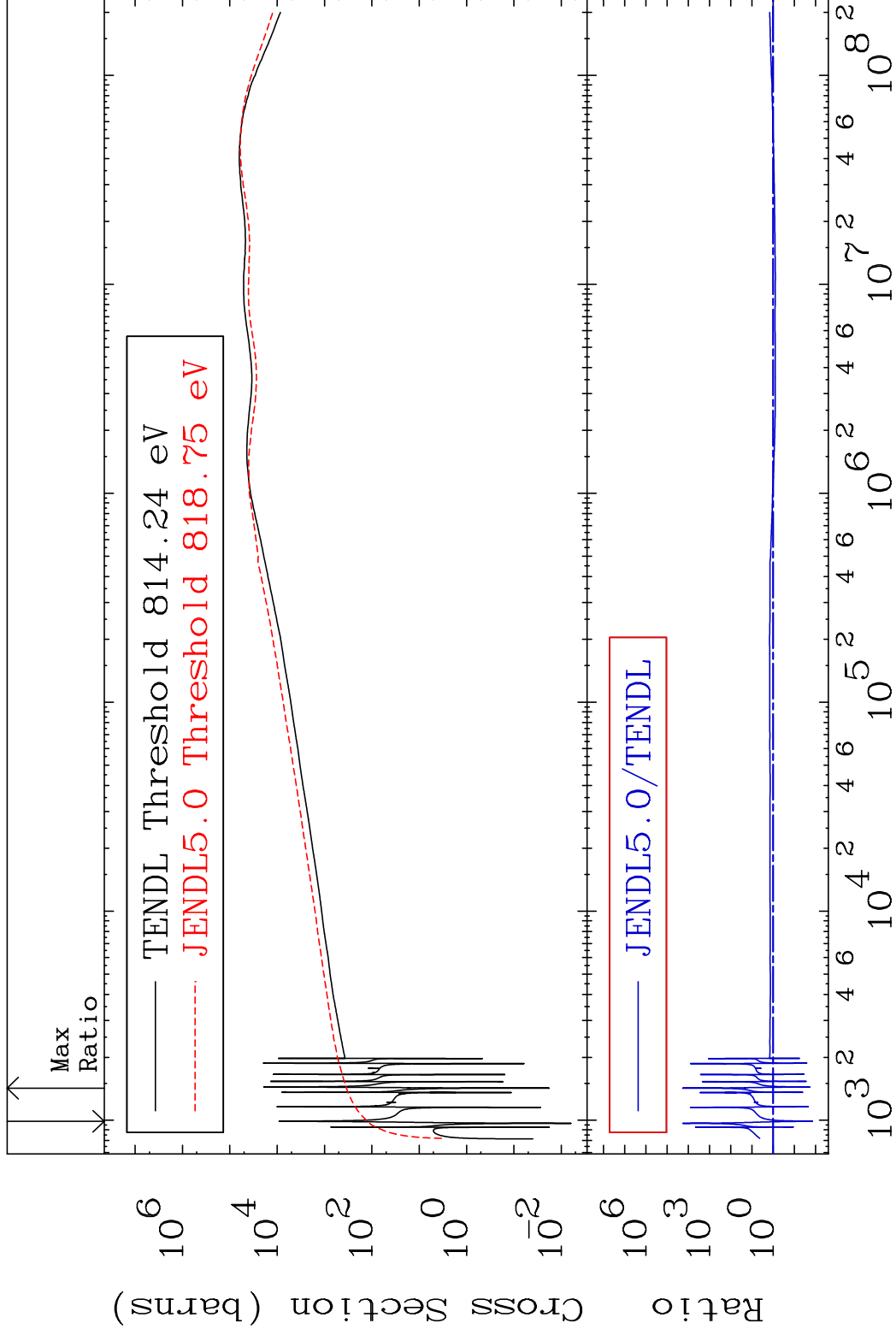
56-Ba-132

MAT 5631

Dpa elastic (mt2)

56-Ba-132

Cross Section -98.63 To 9999. %

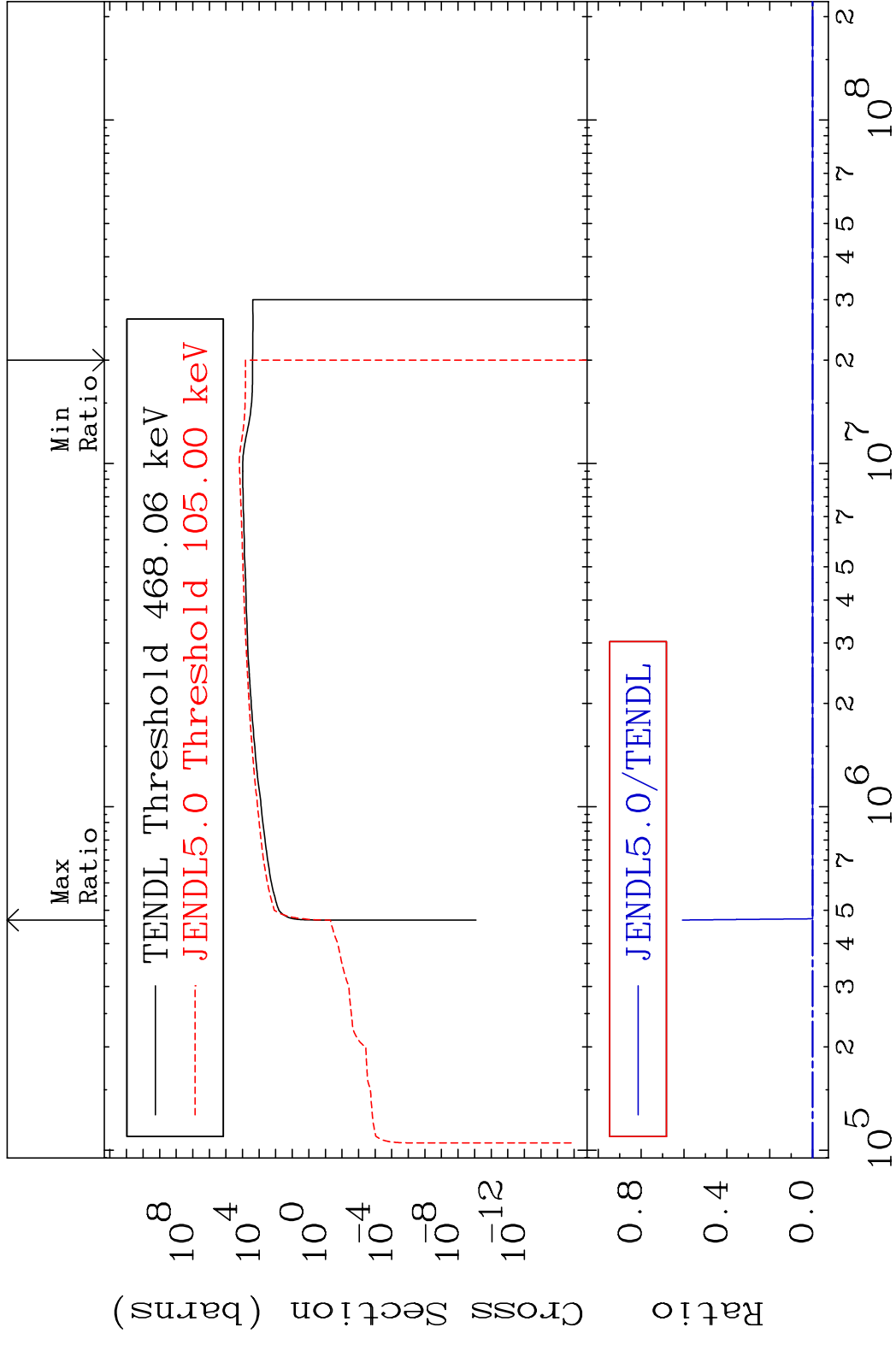


62

Incident Energy (eV)

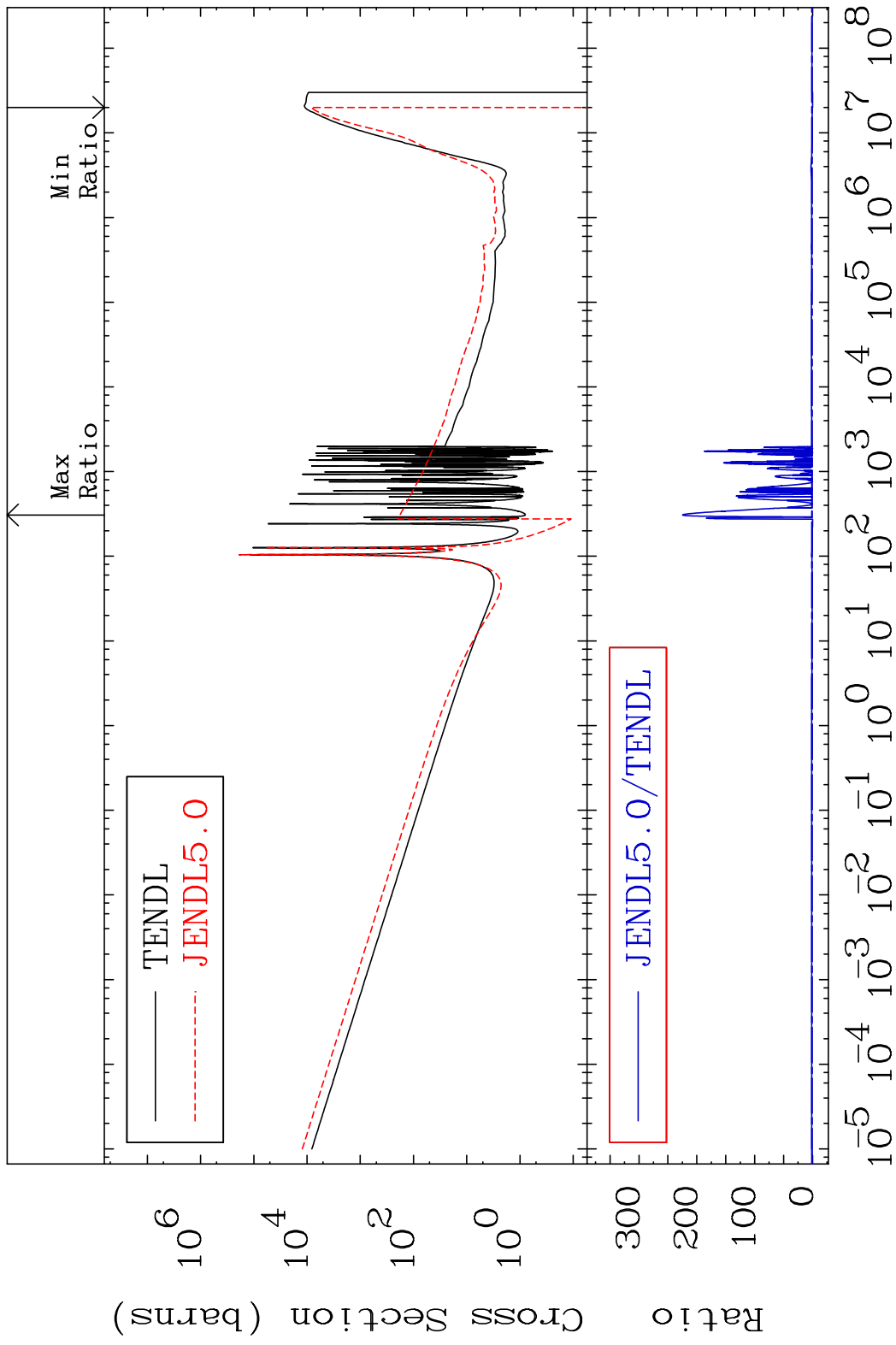
56-Ba-132

MAT 5631 Dpa inelastic (mt51-91) 56-Ba-132  
 Cross Section -100.0 To 9999. %

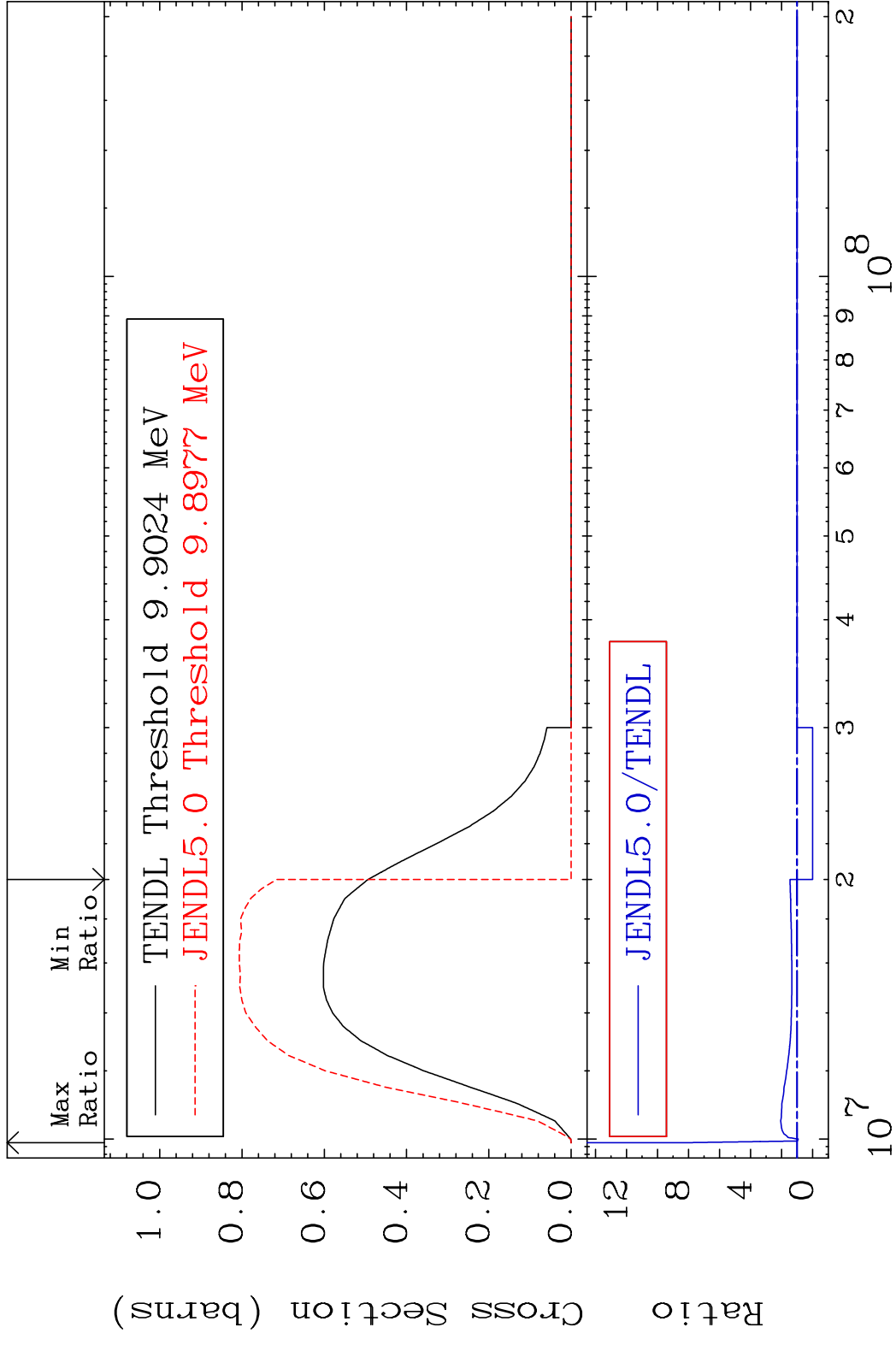


63 Incident Energy (eV) 56-Ba-132

MAT 5631 Dpa disappearance (mt102 -120) 56-Ba-132  
 Cross Section -100.0 To 9999. %

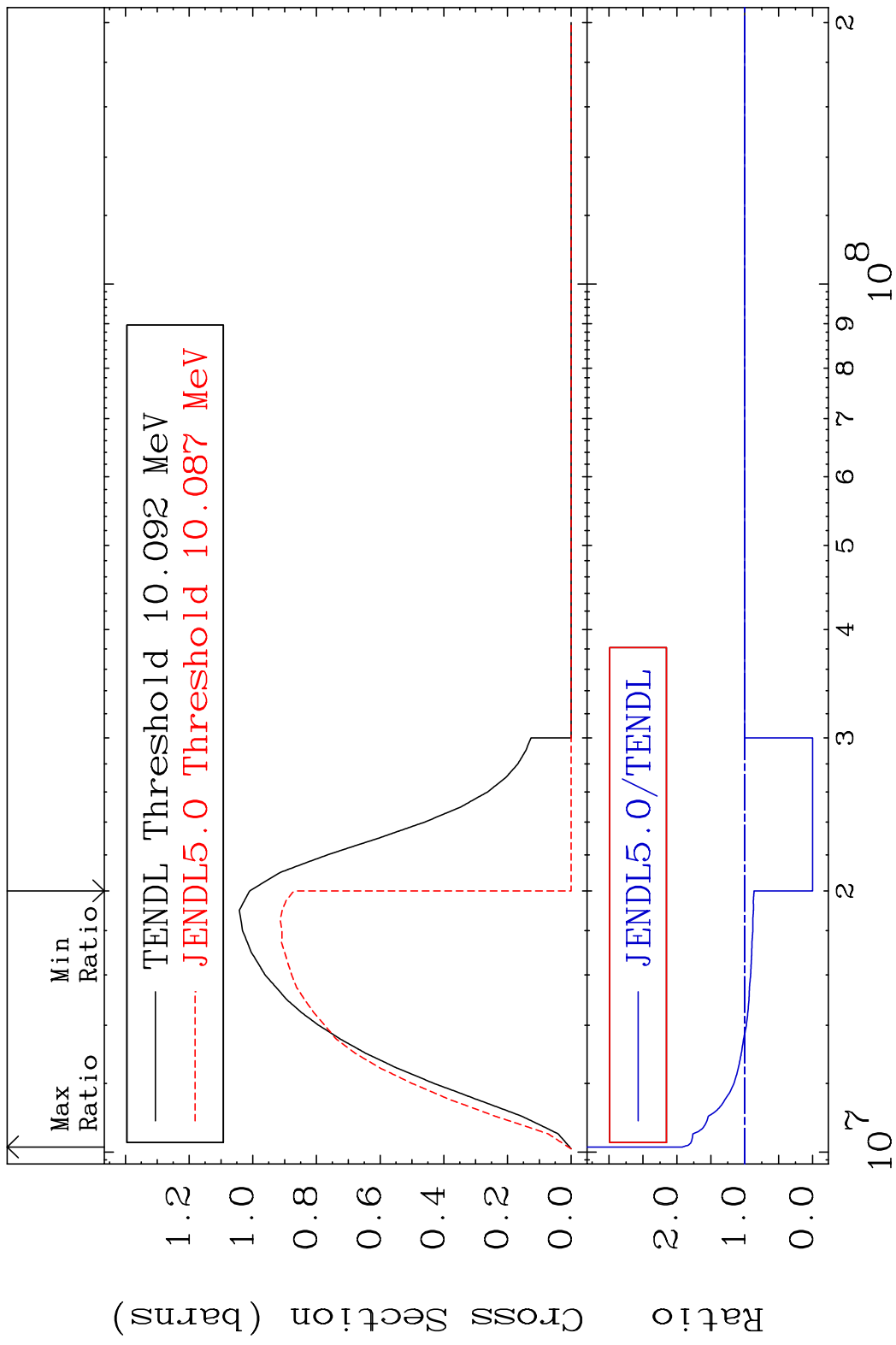


MAT 5631 (n,2n):56-Ba-131g 56-Ba-132  
 Radionuclide Production Cross Section Ratio 739.9 %



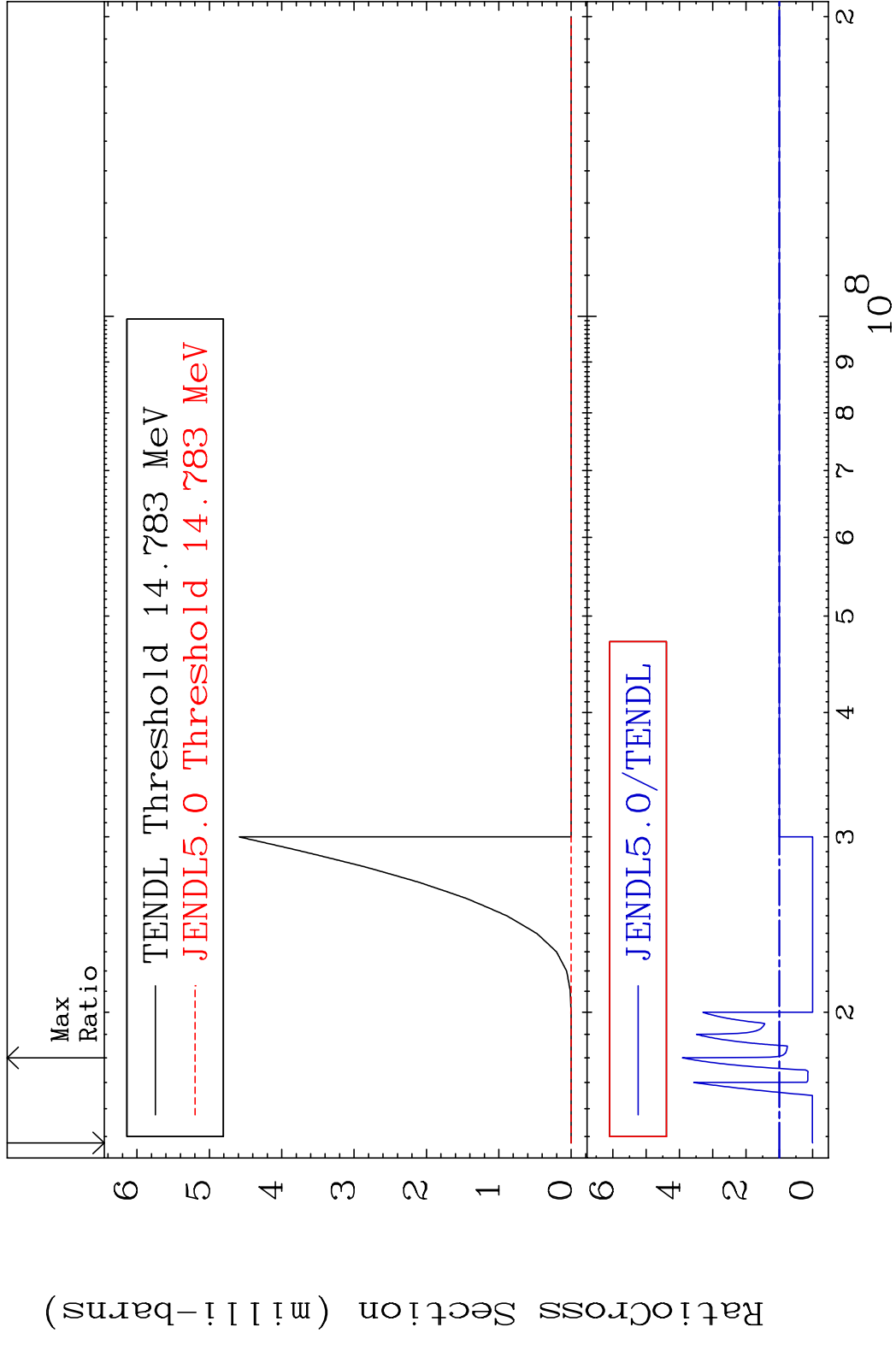
65 56-Ba-132

MAT 5631 (n, 2n):56-Ba-131m2 56-Ba-132  
 Radionuclide Production Cross Section 180.01 dth 91.95 %

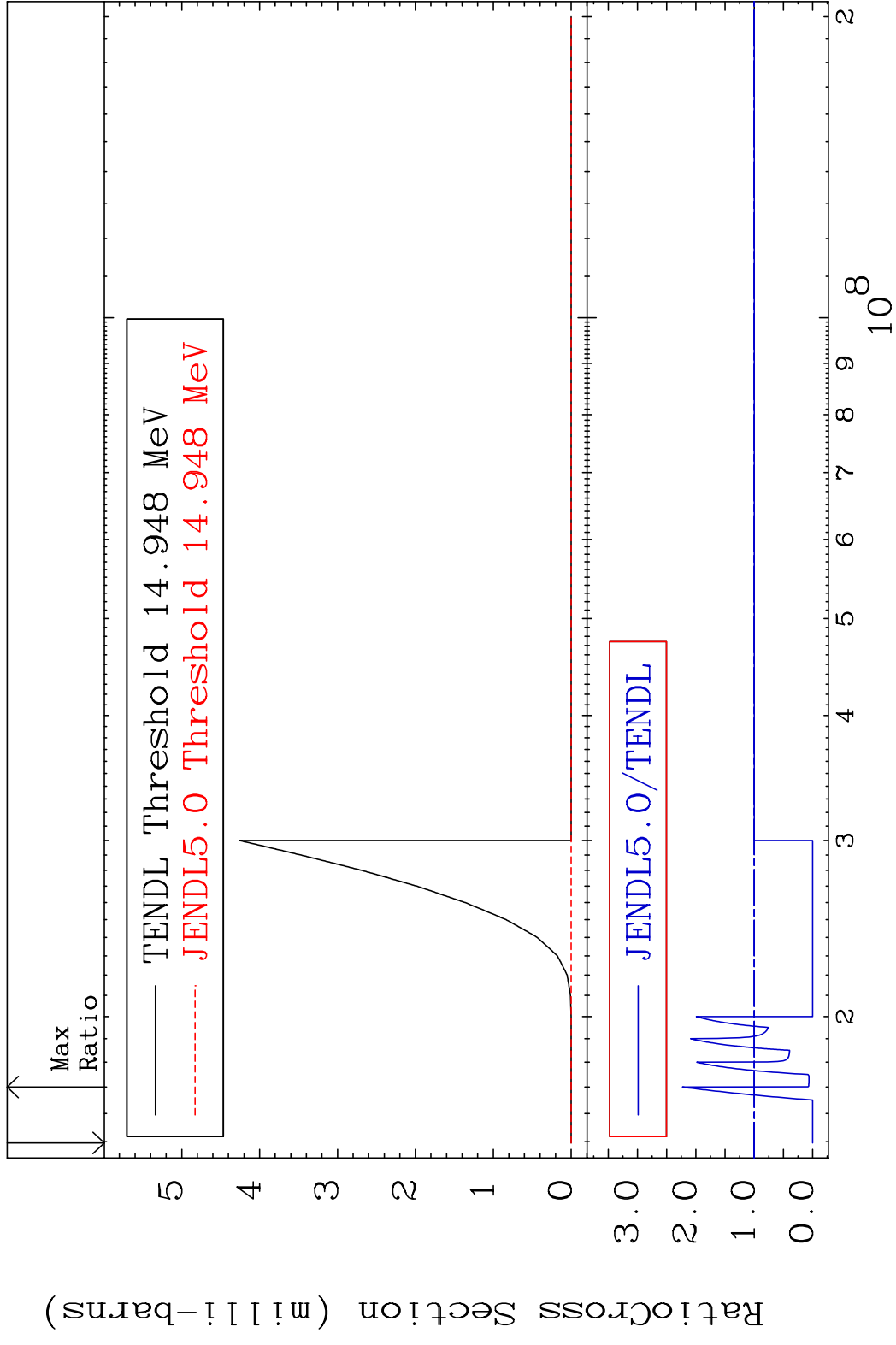


66 Incident Energy (eV) 56-Ba-132

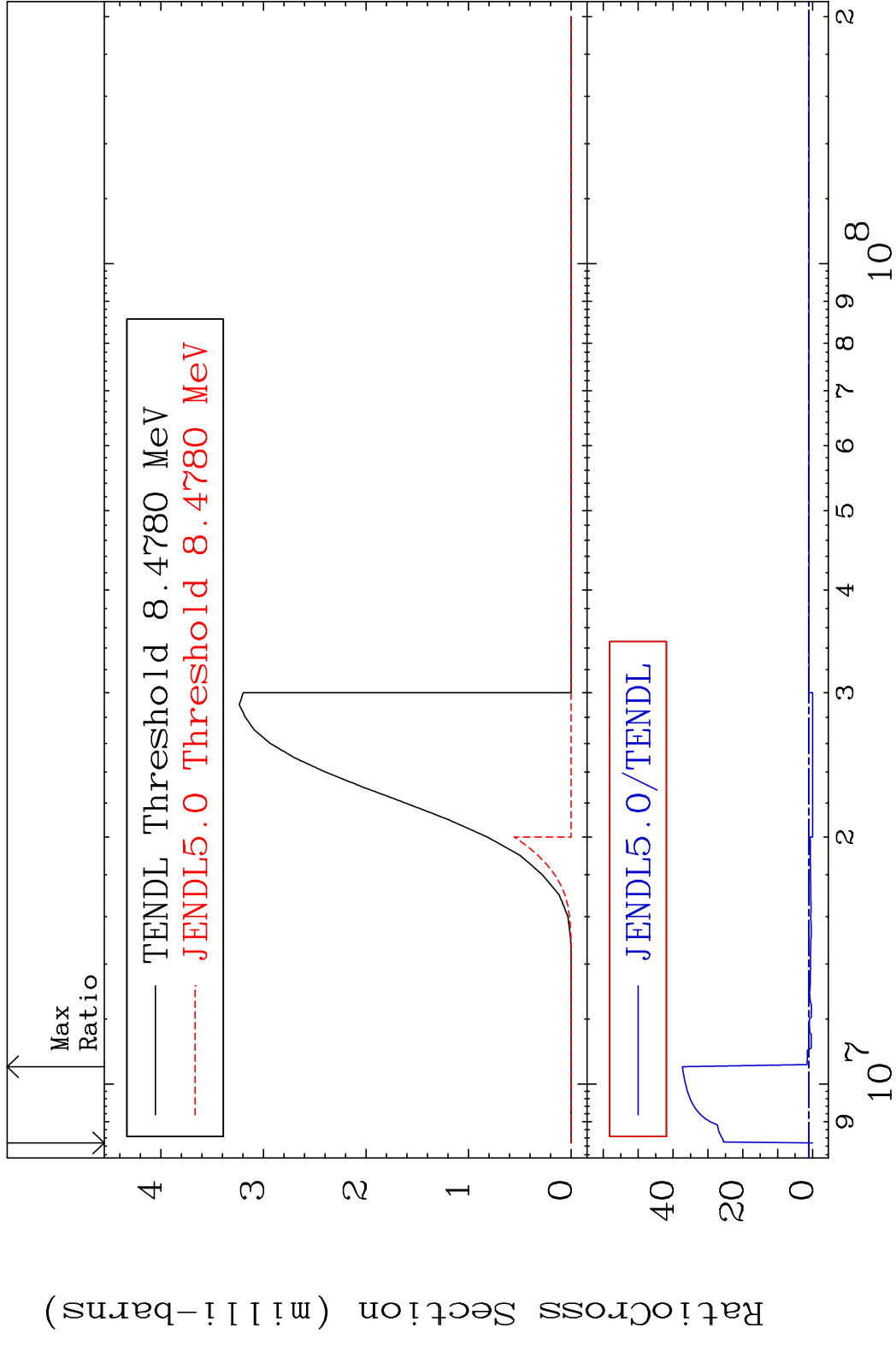
MAT 5631 (n, n') d:55-Cs-130g 56-Ba-132  
 Radionuclide Production Cross Section 180.0 dth 291.0 %



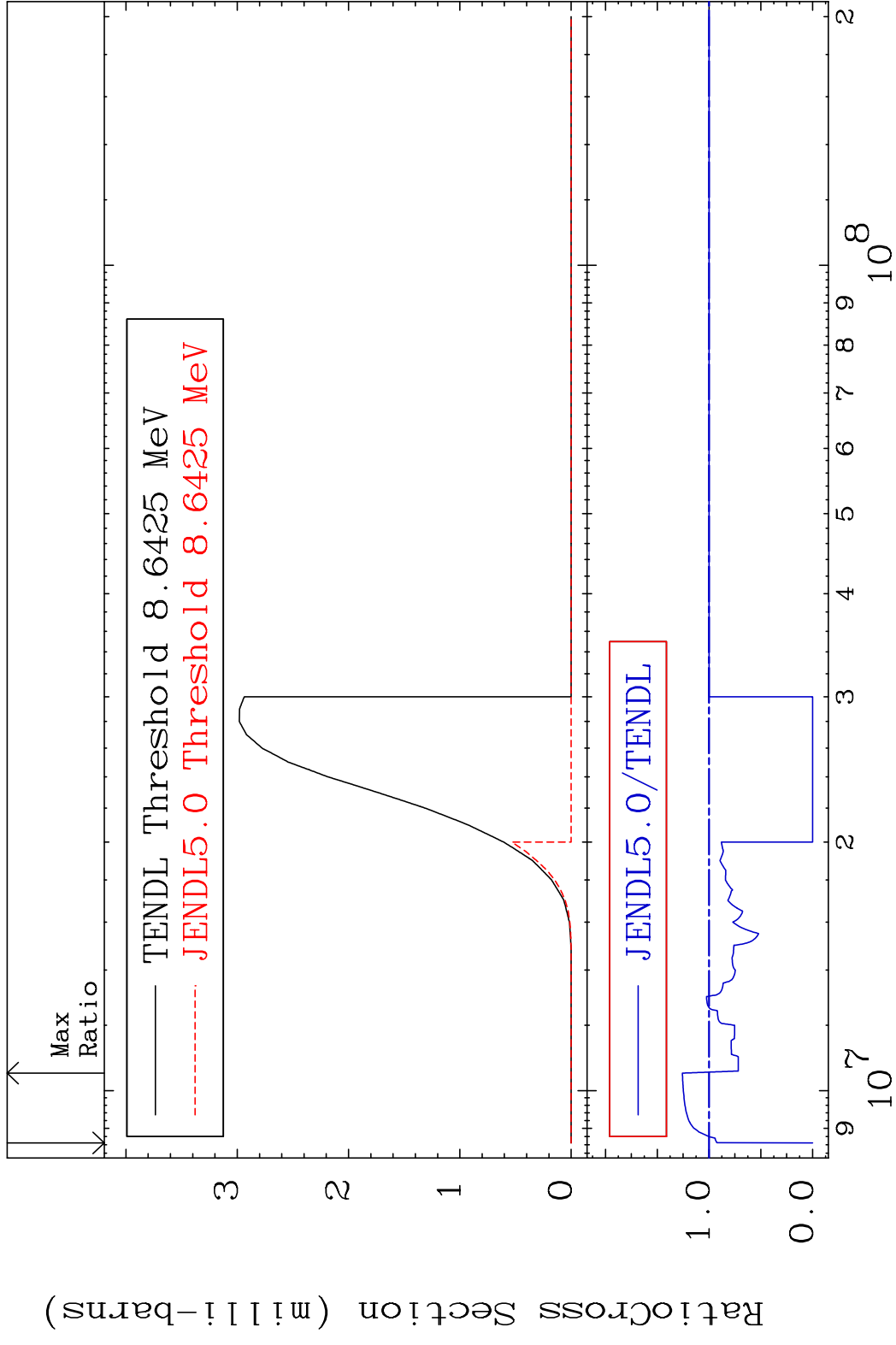
MAT 5631 (n, n') d:55-Cs-130m4 56-Ba-132  
 Radionuclide Production Cross Section 180.0 dth 123.0 %



MAT 5631 (n, t):55-Cs-130g 56-Ba-132  
 Radionuclide Production Cross Section 180.0 mb 3634. %

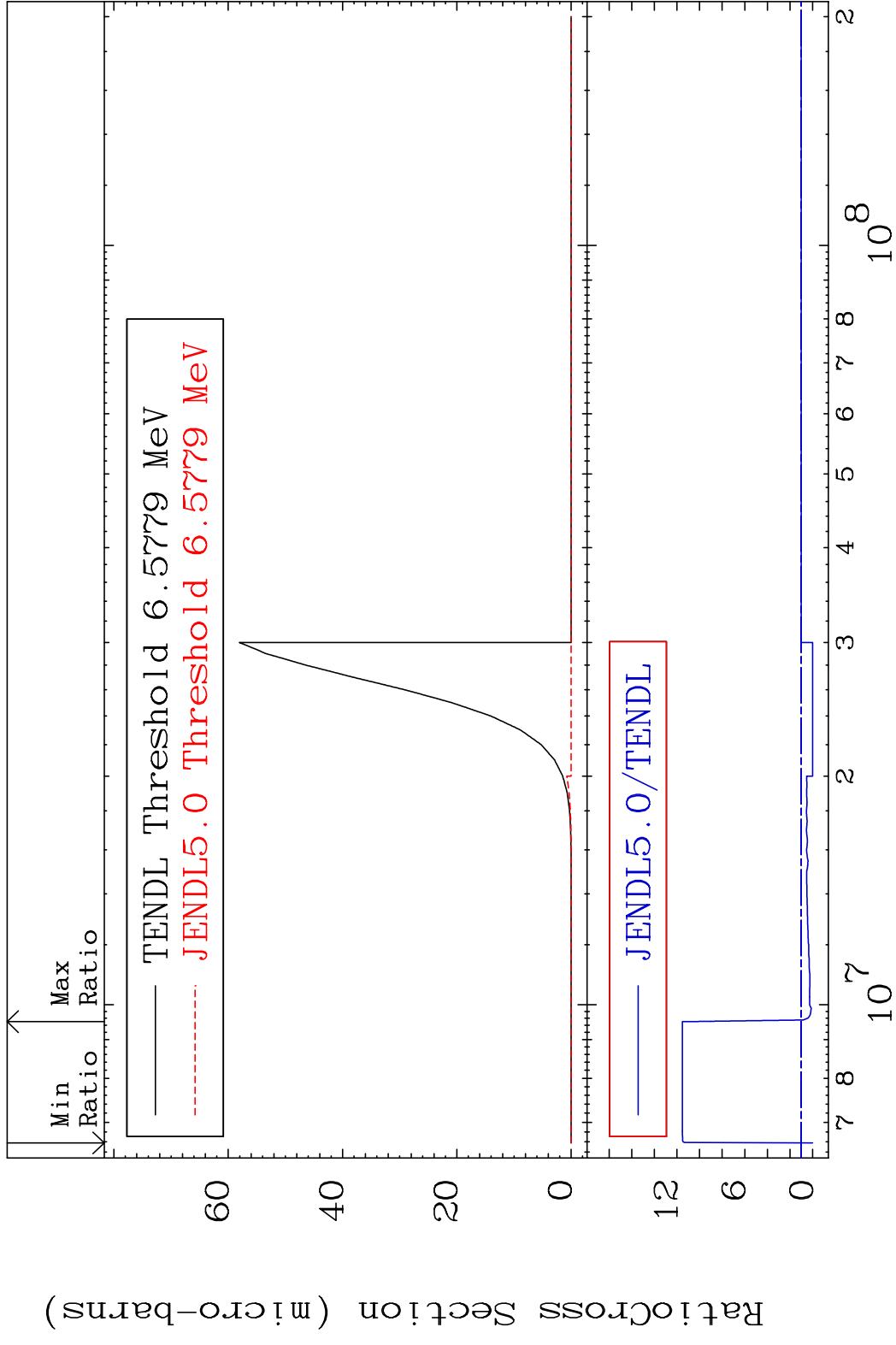


MAT 5631 (n, t):55-Cs-130m4 56-Ba-132  
 Radionuclide Production Cross Section 180.01 dth 25.74 %



70 Incident Energy (eV) 56-Ba-132

MAT 5631 (n,2p):54-Xe-131g 56-Ba-132  
 Radionuclide Production Cross Section Ratio 100.00 to 1052. %



MAT 5631 (n, 2p):54-Xe-131m2 56-Ba-132  
 Radionuclide Production Cross Section 100.0 dth 104.2 %

