

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

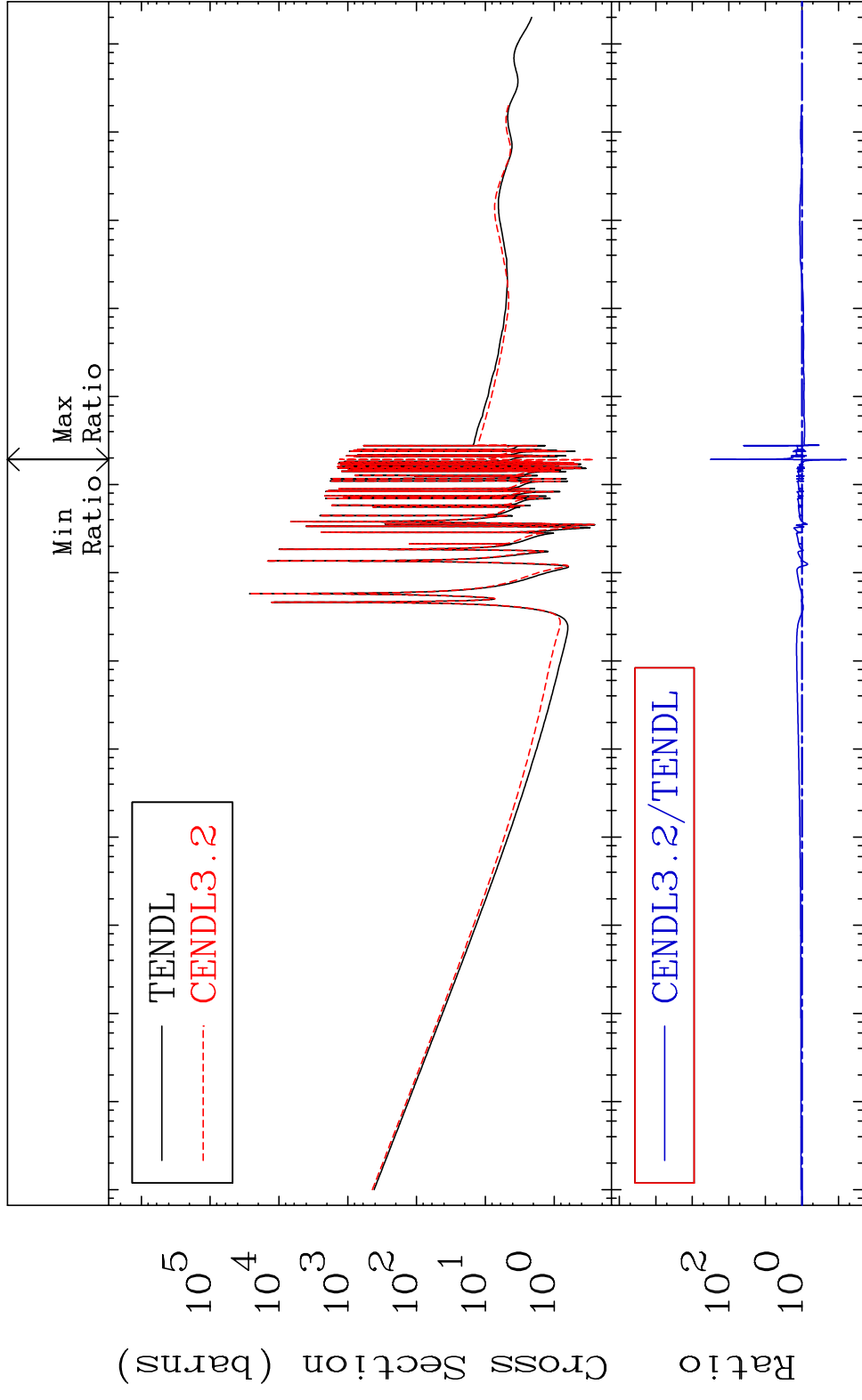
MAT 5625

Total

56-Ba-130

Cross Section

-93.91 To 9999. %



1

Incident Energy (eV)

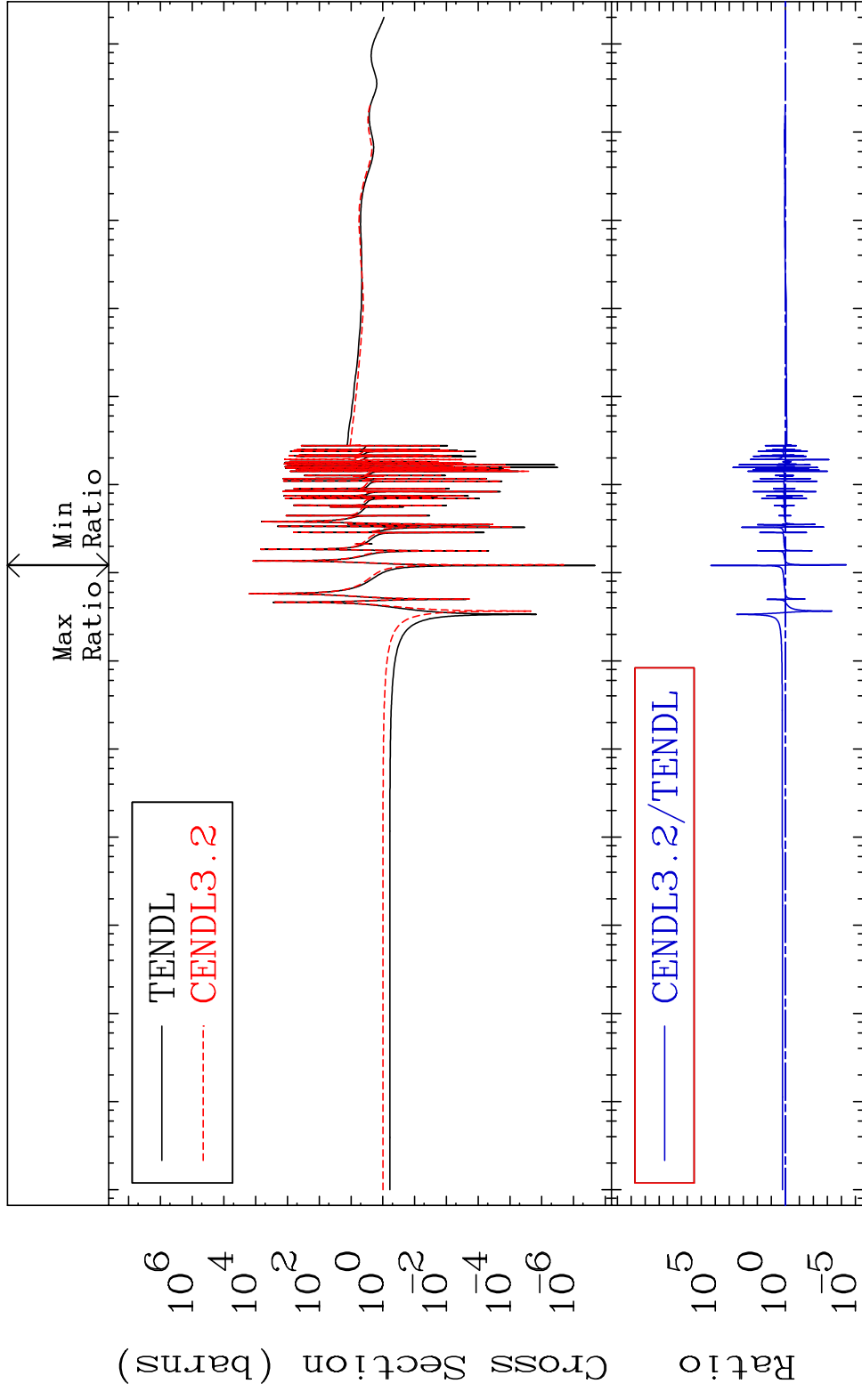
56-Ba-130

MAT 5625

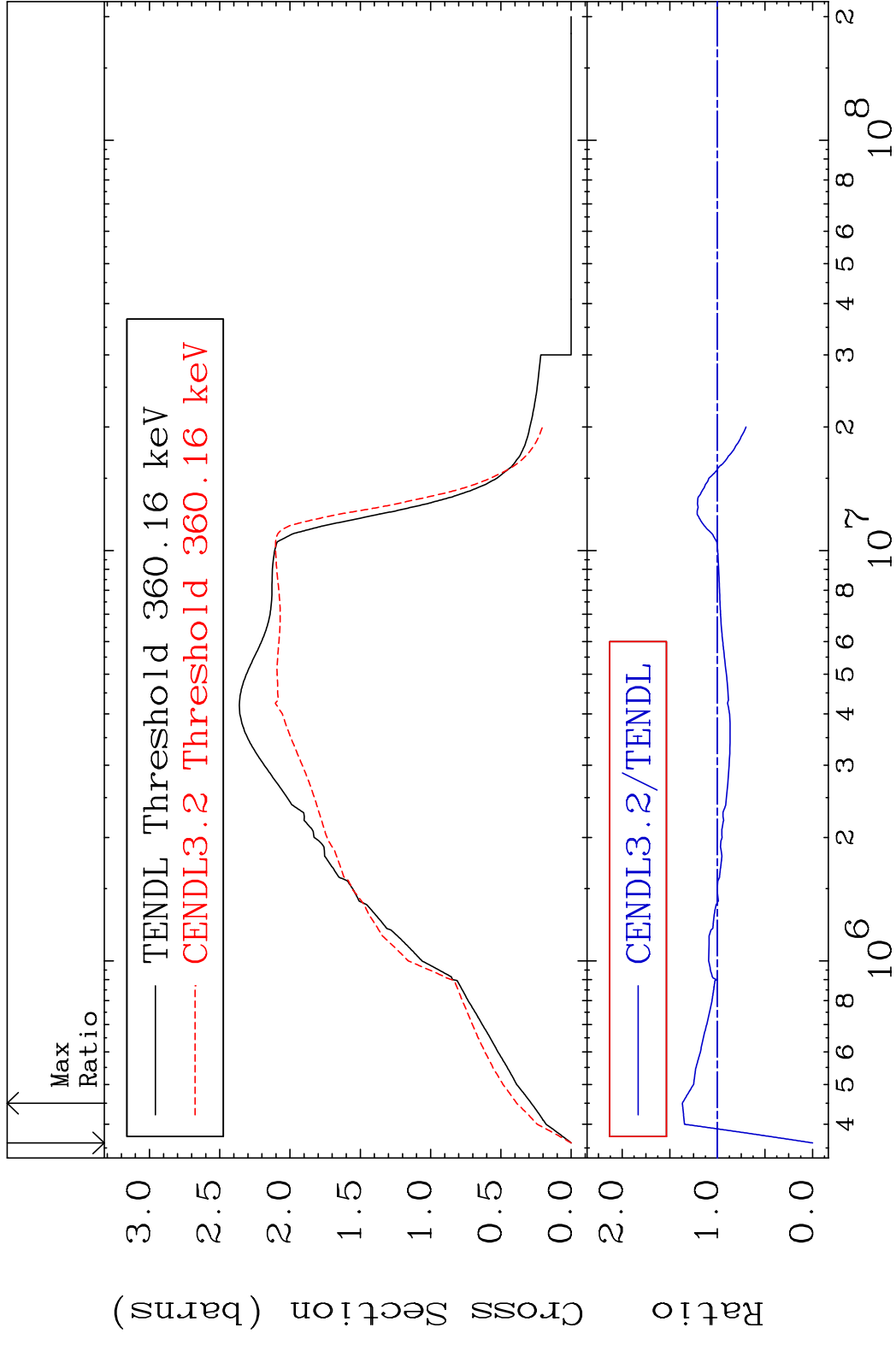
Elastic

56-Ba-130

Cross Section -100.0 To 9999. %



MAT 5625 Inelastic 56-Ba-130
 Cross Section -100.0 To 36.78 %



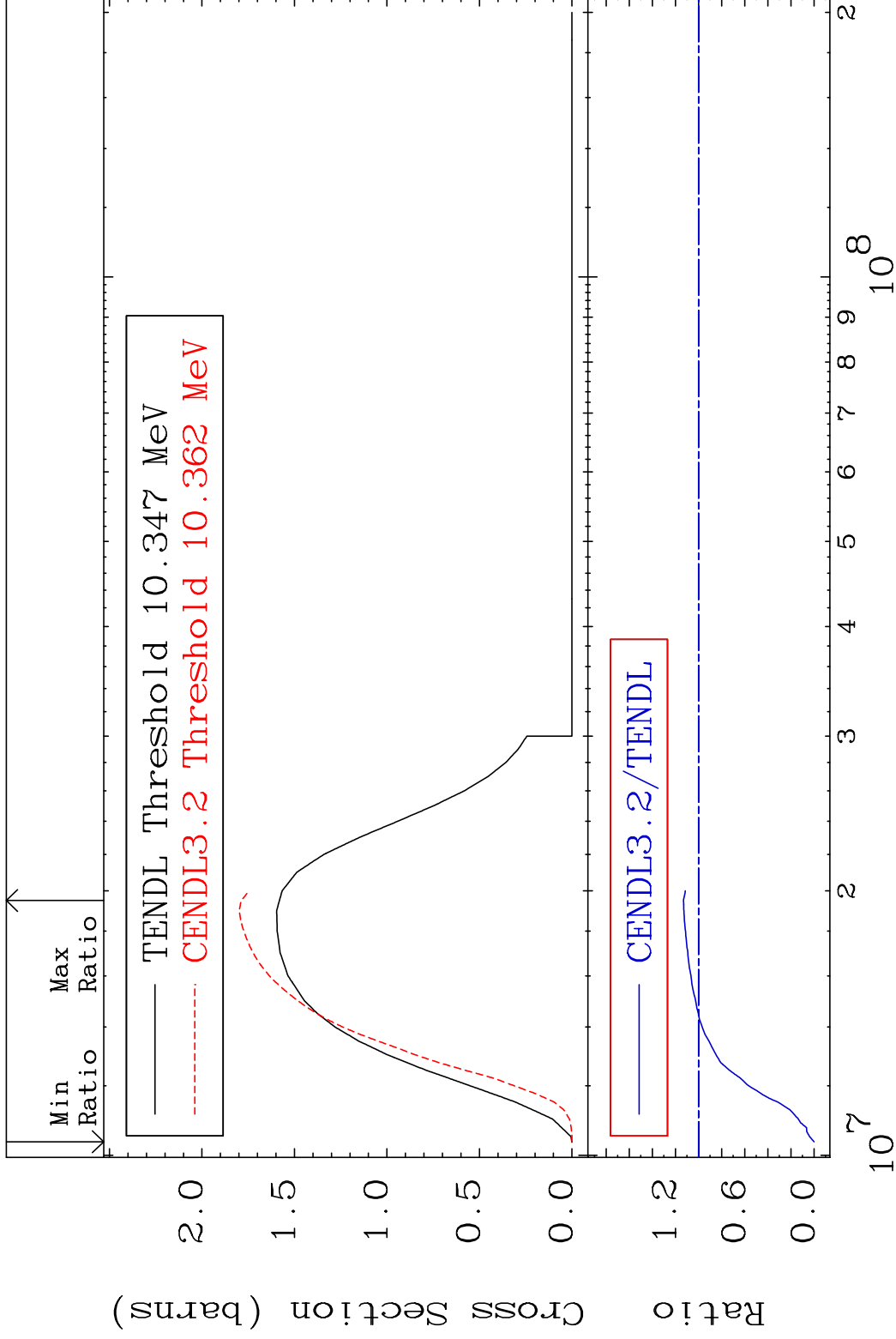
3 Incident Energy (eV) 56-Ba-130

MAT 5625

(n,2n)

56-Ba-130

Cross Section -100.0 To 13.04 %



4

Incident Energy (eV)

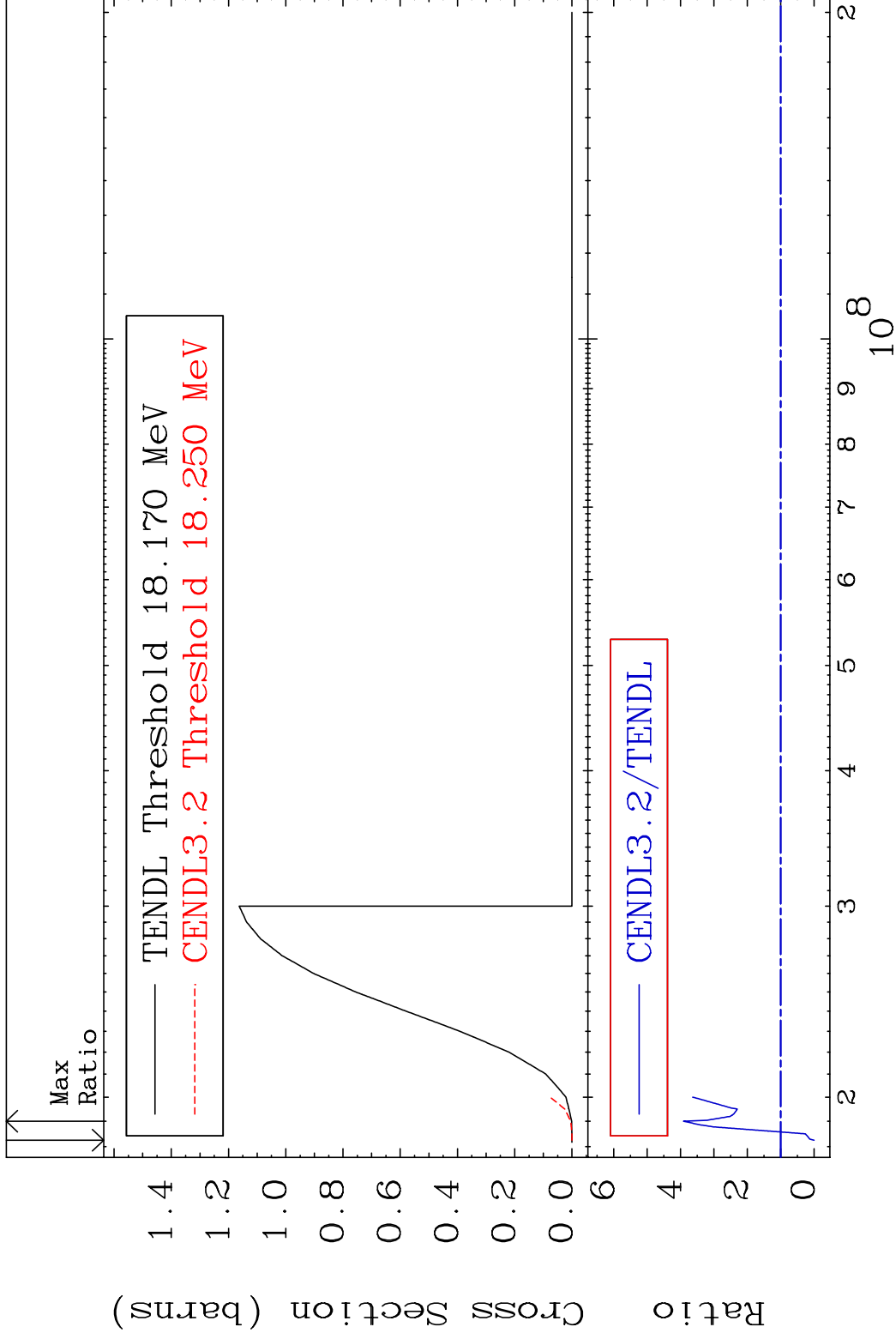
56-Ba-130

MAT 5625

(n,3n)

56-Ba-130

Cross Section -100.0 To 291.1 %

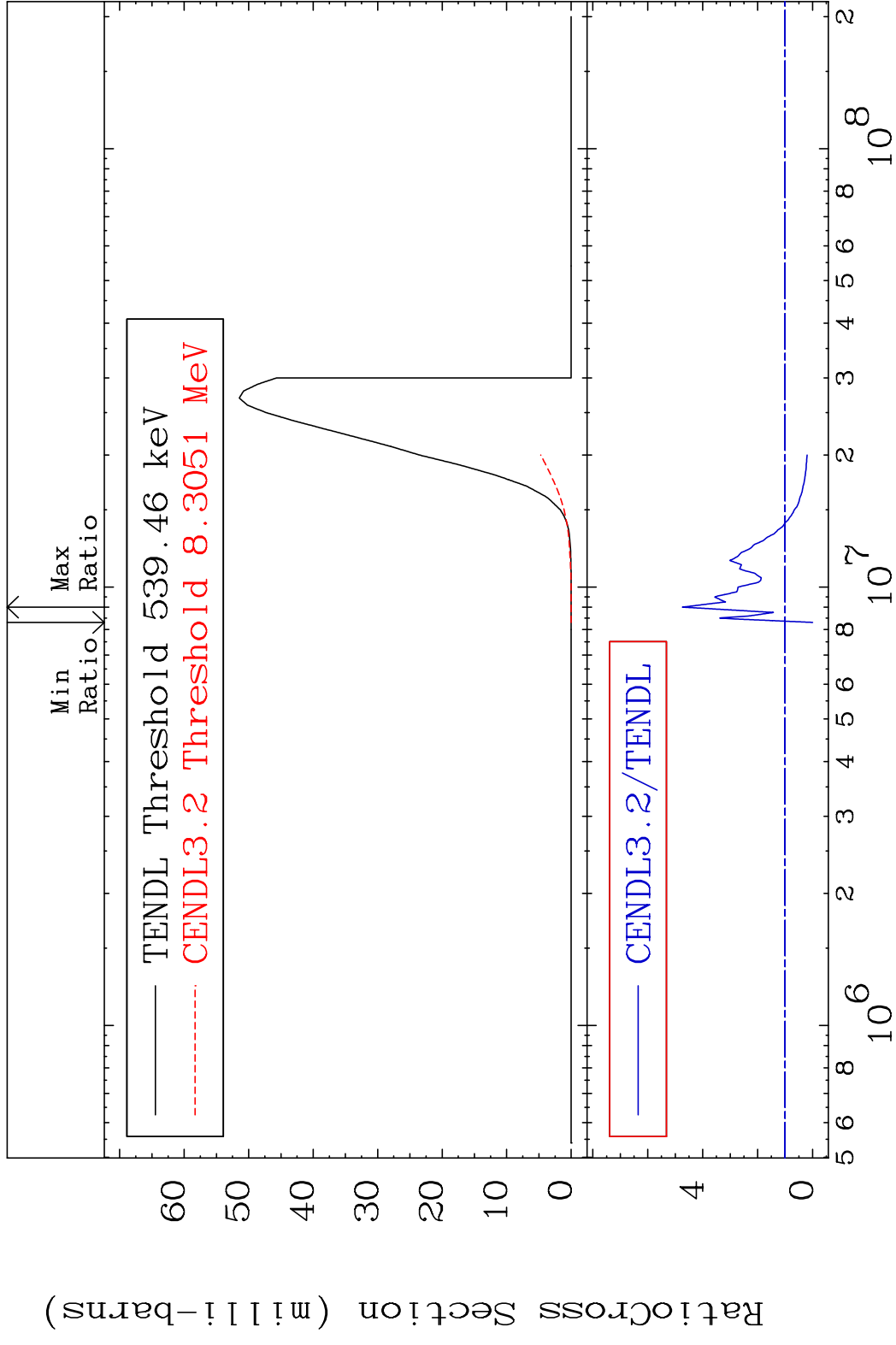


5

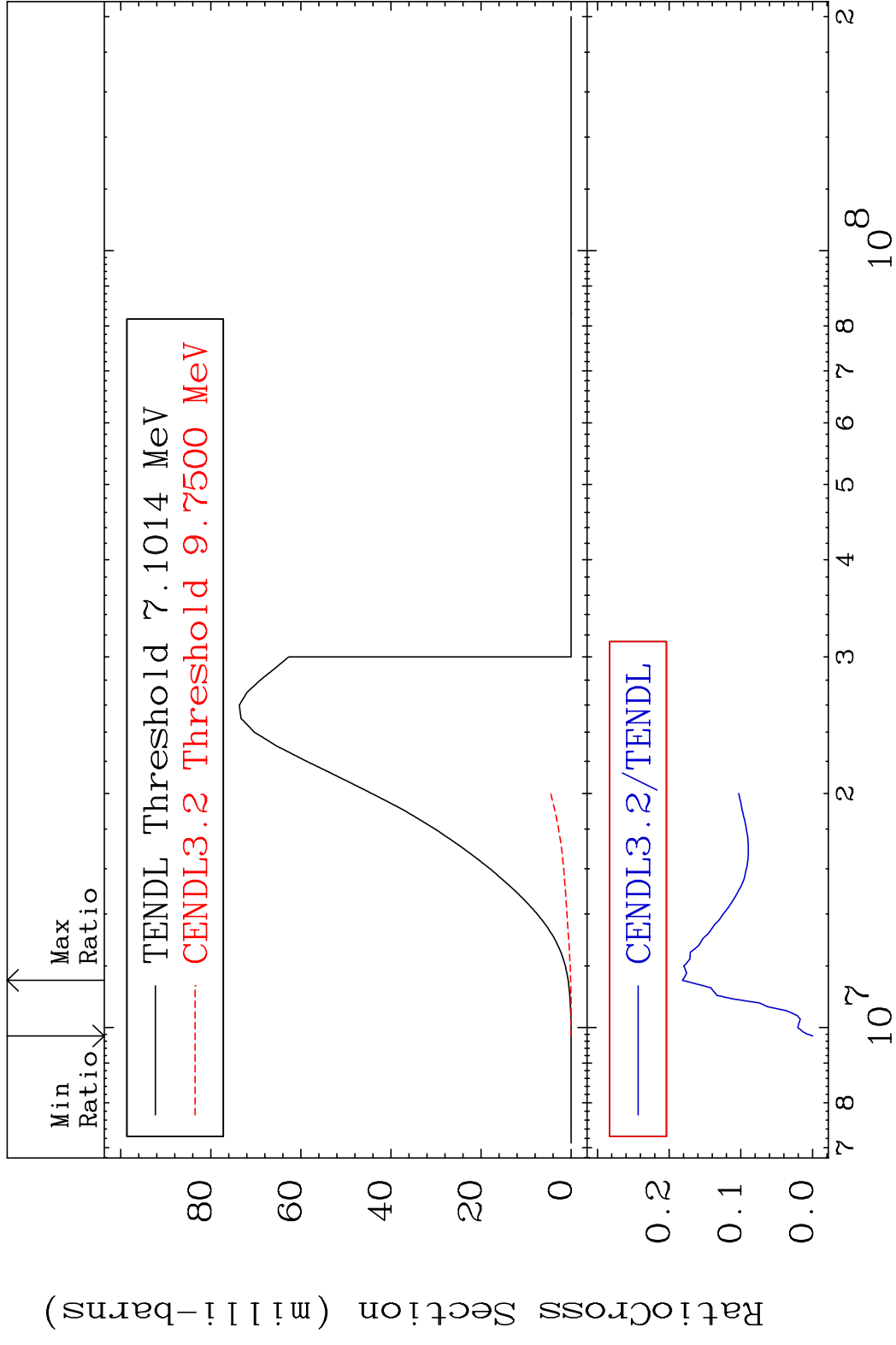
Incident Energy (eV)

56-Ba-130

MAT 5625 (n, n') α 56-Ba-130
 Cross Section -100.0 To 374.1 %

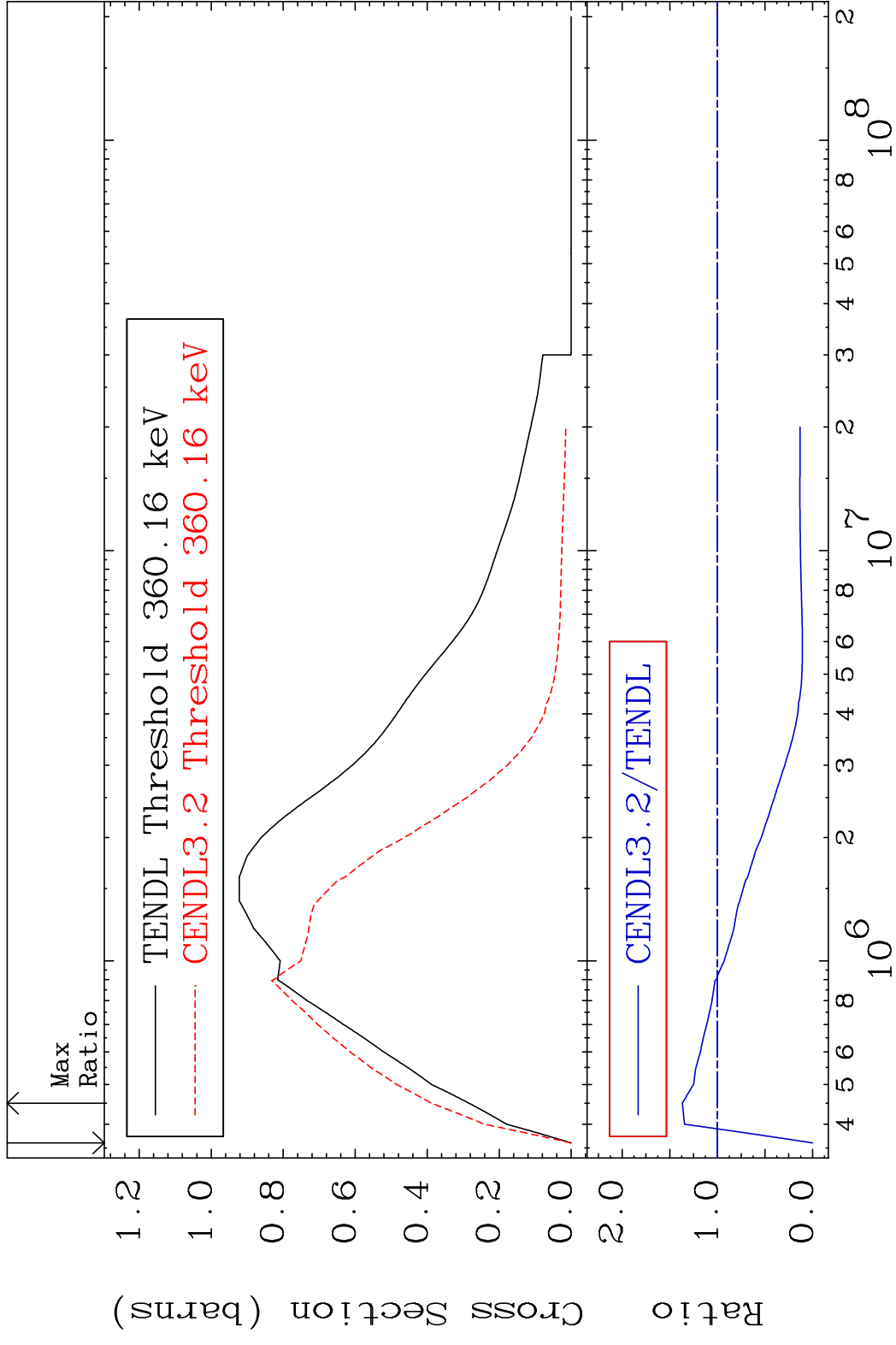


MAT 5625 (n, n') p 56-Ba-130
 Cross Section -100.0 To -81.84%



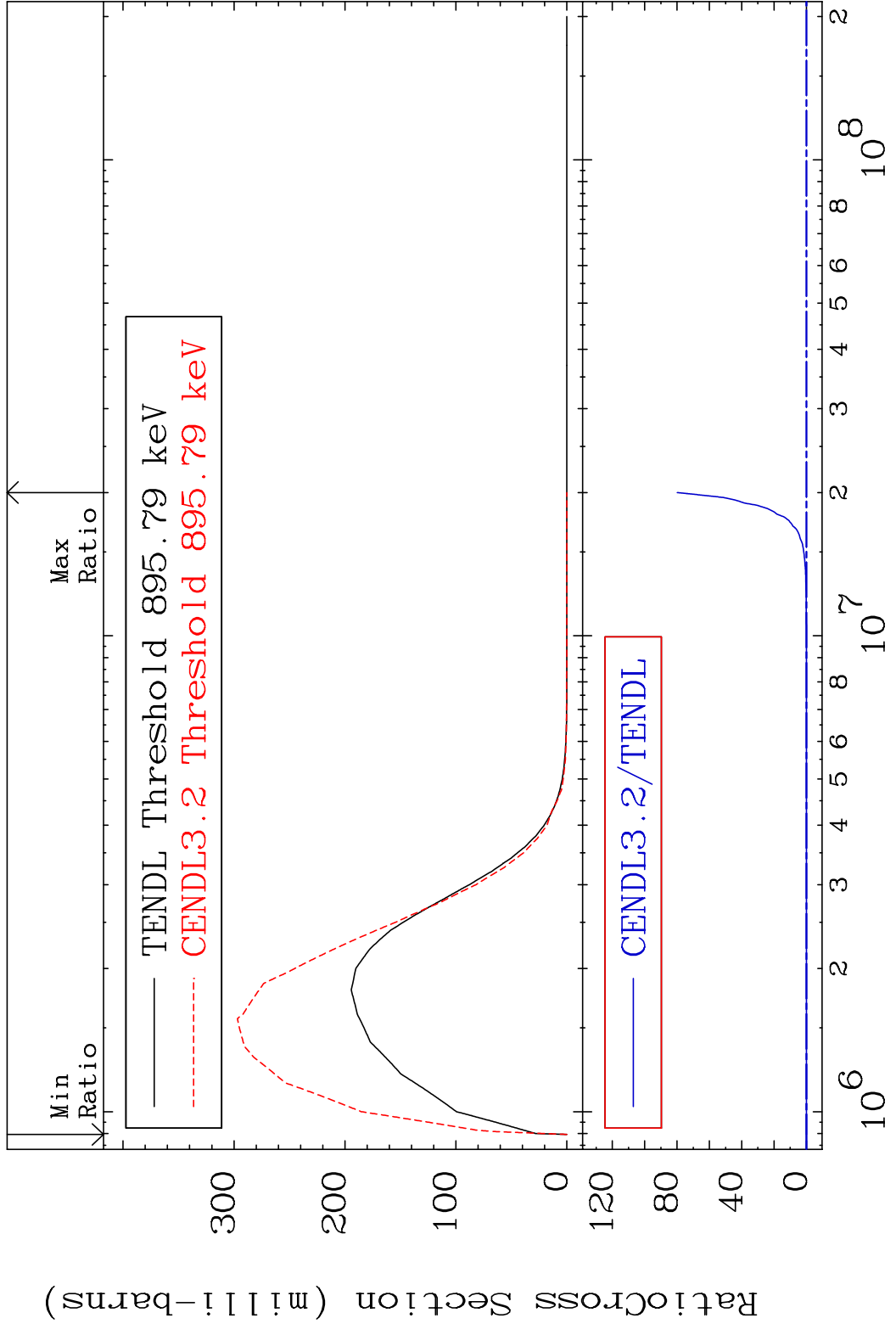
7 Incident Energy (eV) 56-Ba-130

MAT 5625 MT= 51 (n,n') Level 56-Ba-130
 Cross Section -100.0 To 36.78 %



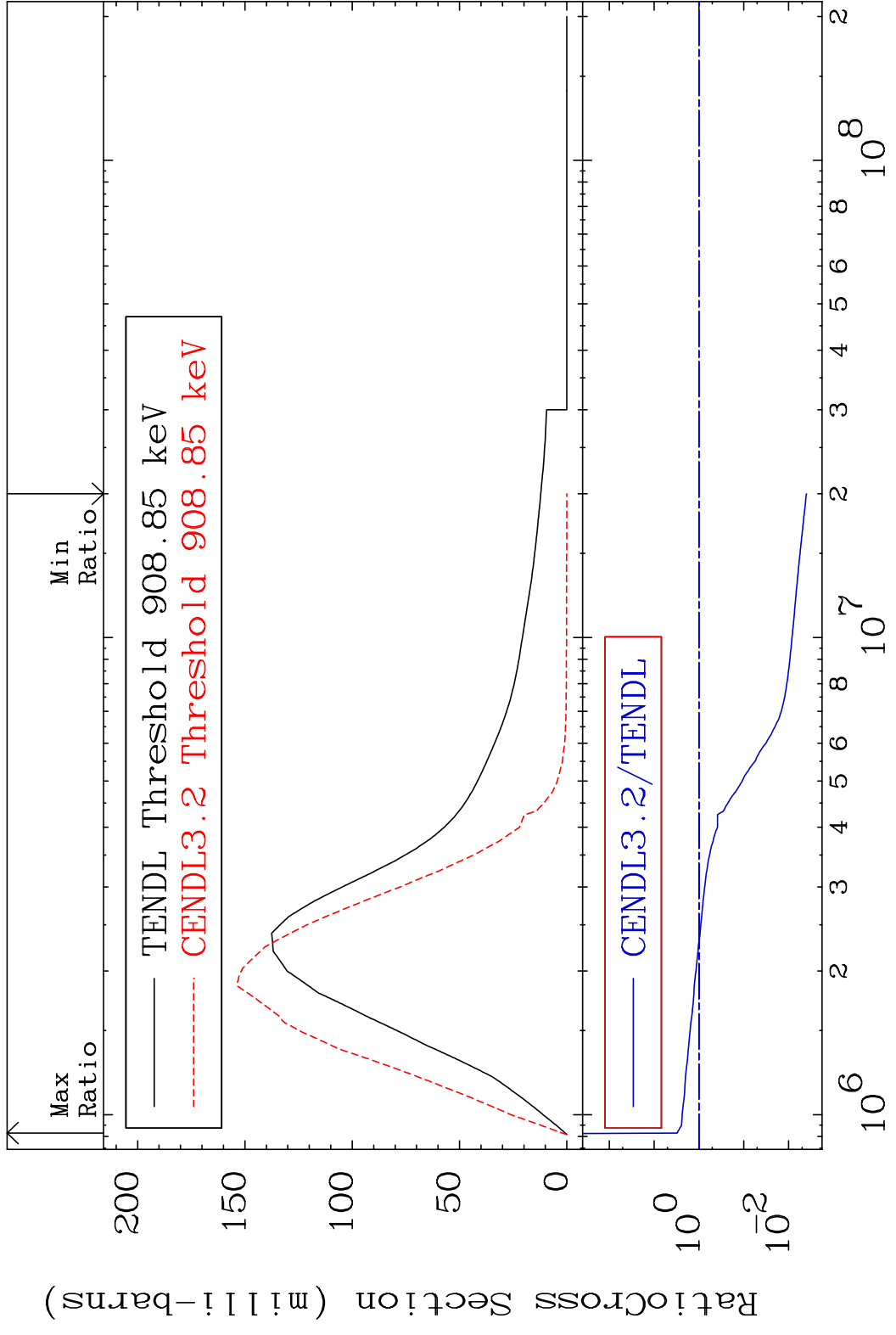
8 Incident Energy (eV) 56-Ba-130

MAT 5625 MT= 52 (n, n') Level 56-Ba-130
 Cross Section -100.0 To 9999. %



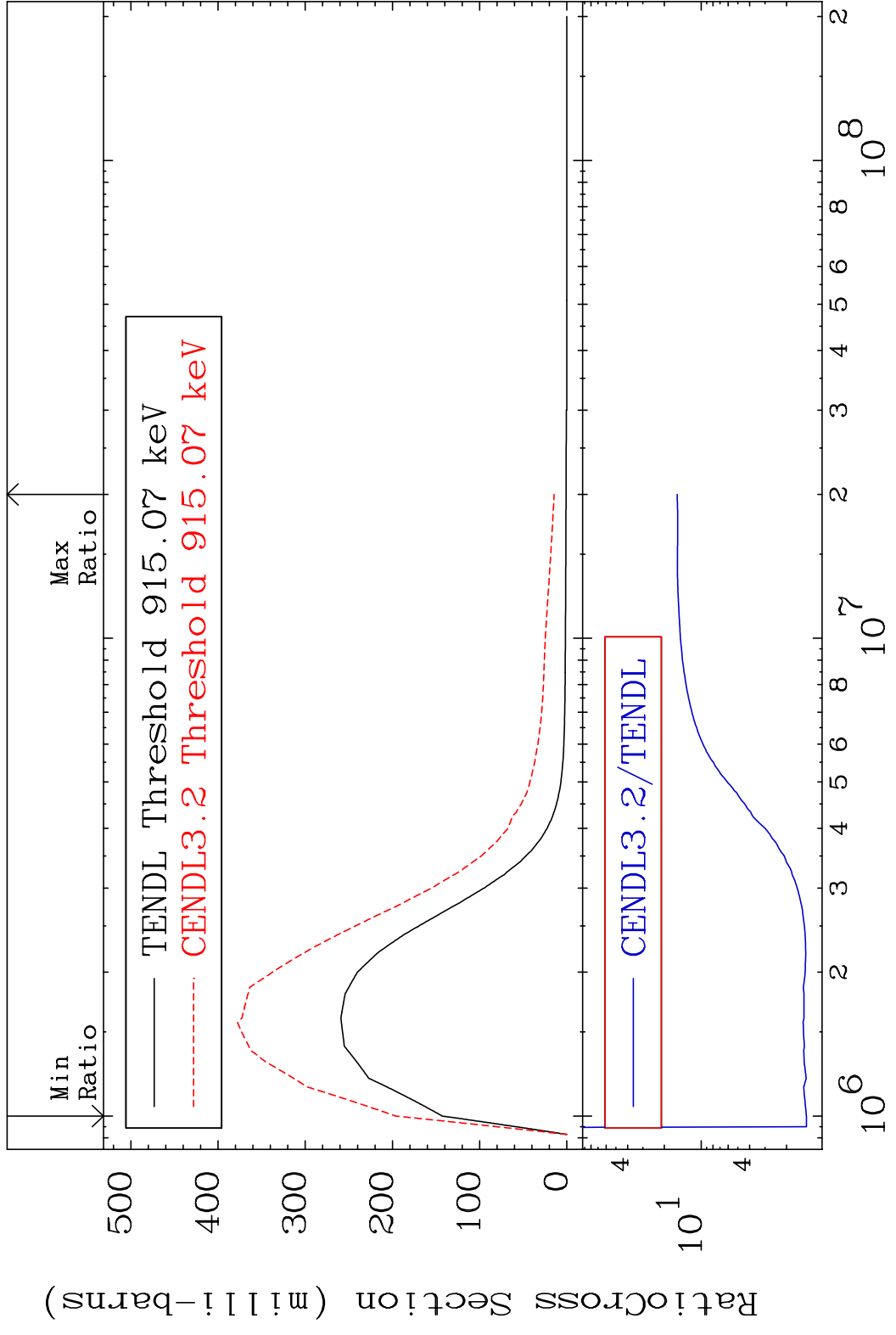
9 Incident Energy (eV) 56-Ba-130

MAT 5625 MT= 53 (n, n') Level 56-Ba-130
 Cross Section -99.60 To 204.8 %



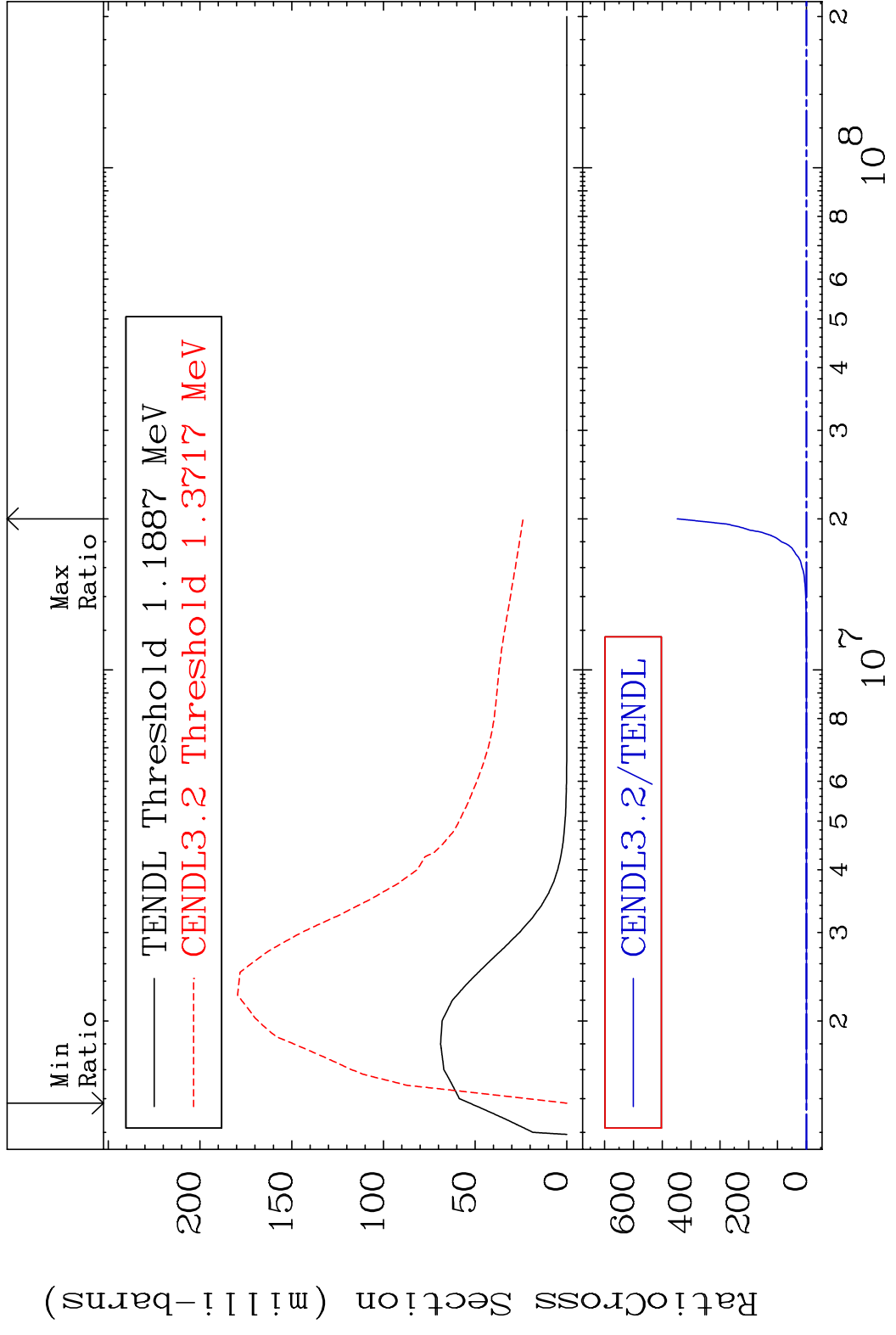
10 10⁶ 10⁷ 10⁸ 2
 200 150 100 50 0
 56-Ba-130

MAT 5625 MT= 54 (n, n') Level 56-Ba-130
 Cross Section 37.39 To 1472. %

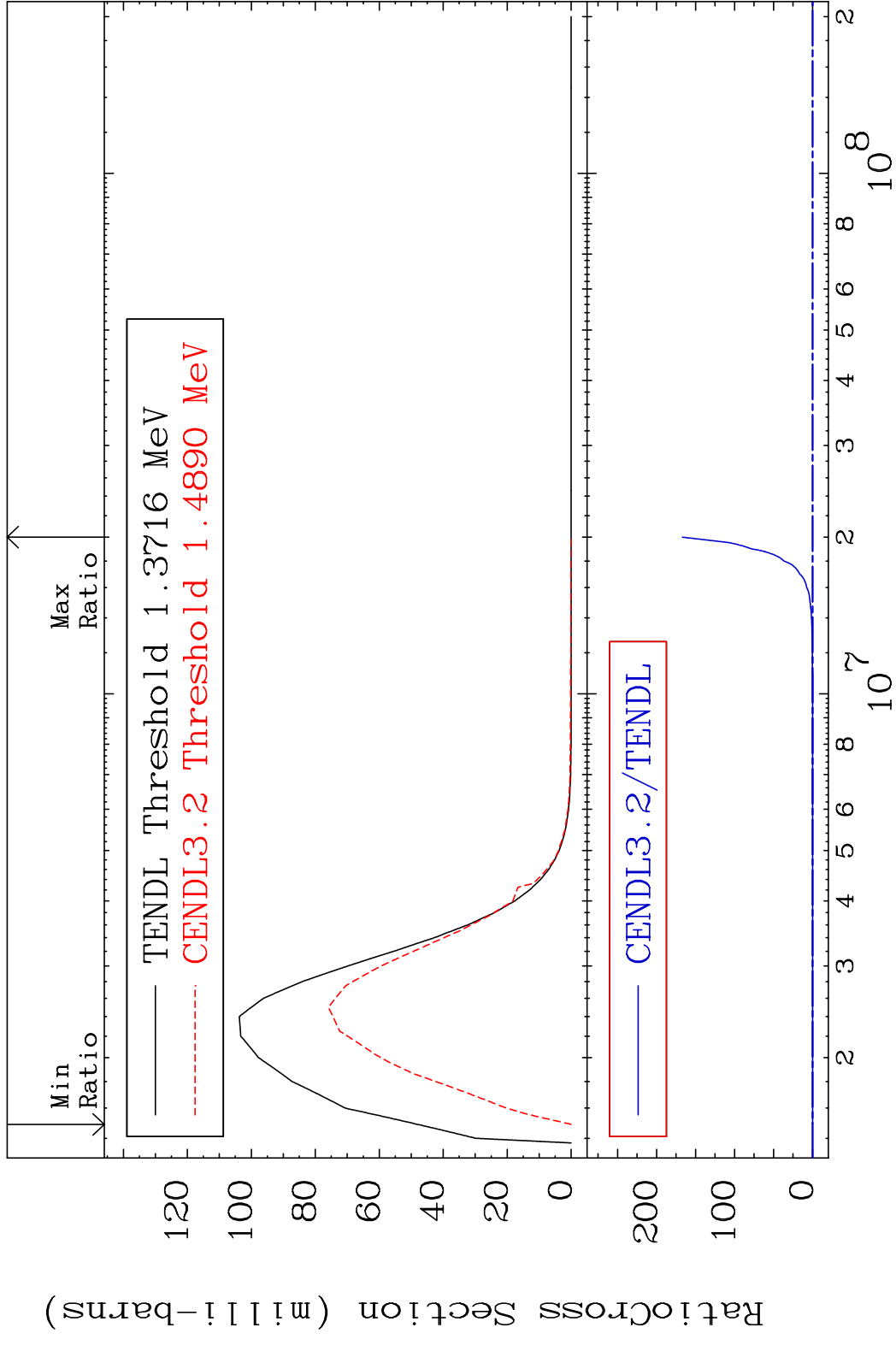


11 Incident Energy (eV) 56-Ba-130

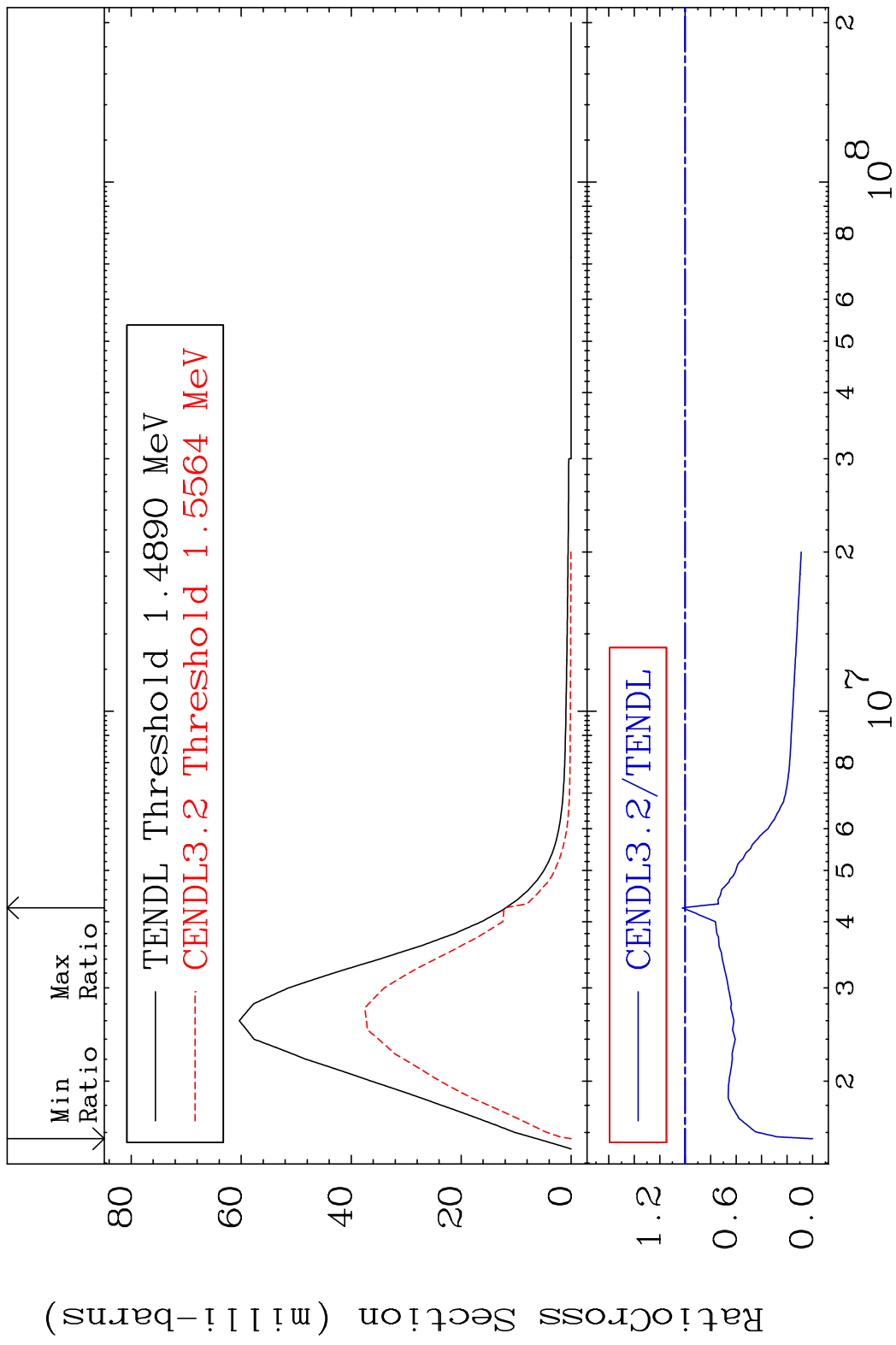
MAT 5625 MT= 55 (n, n') Level 56-Ba-130
 Cross Section -100.0 To 9999. %



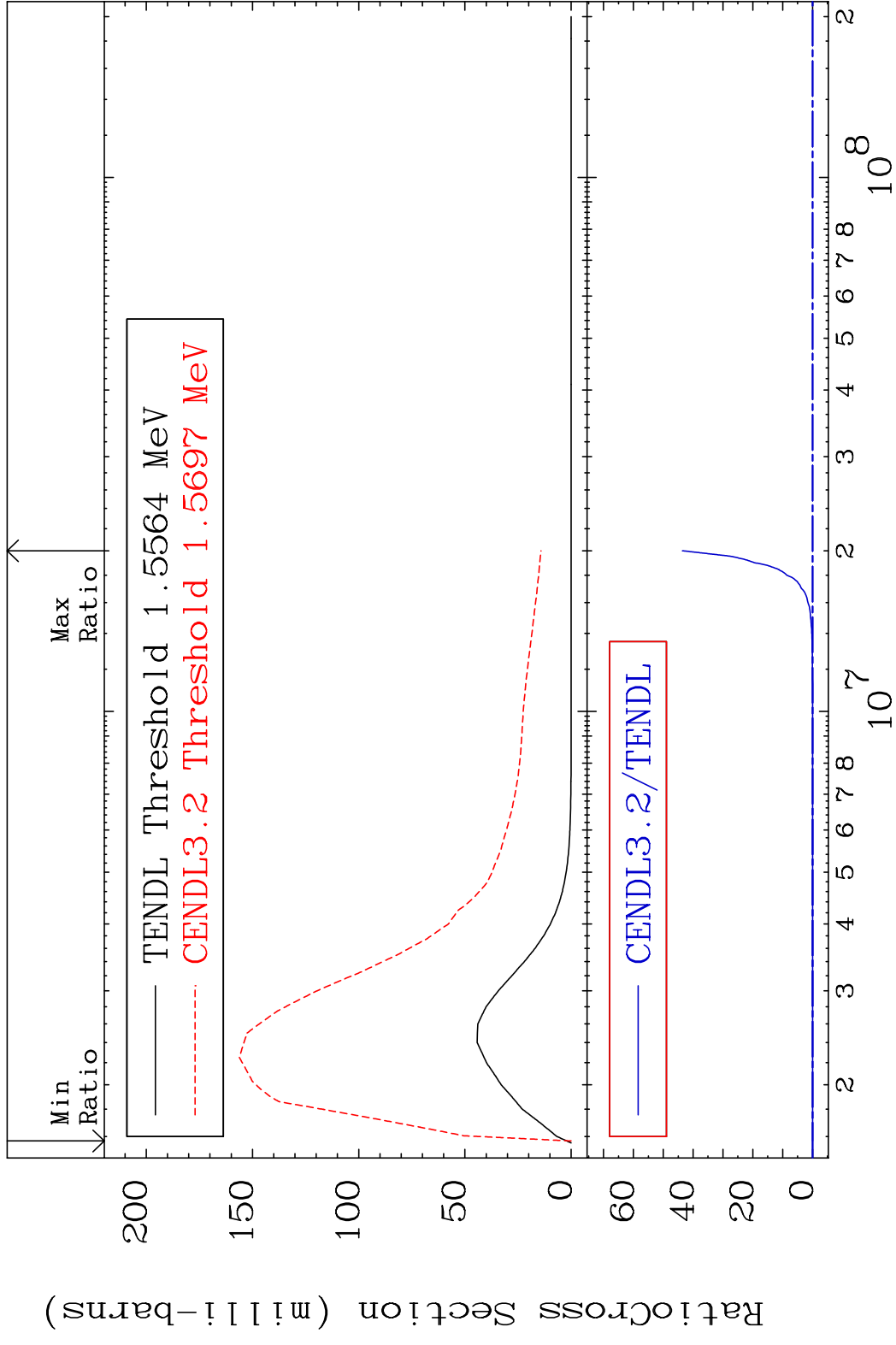
MAT 5625 MT= 56 (n, n') Level 56-Ba-130
 Cross Section -100.0 To 9999. %



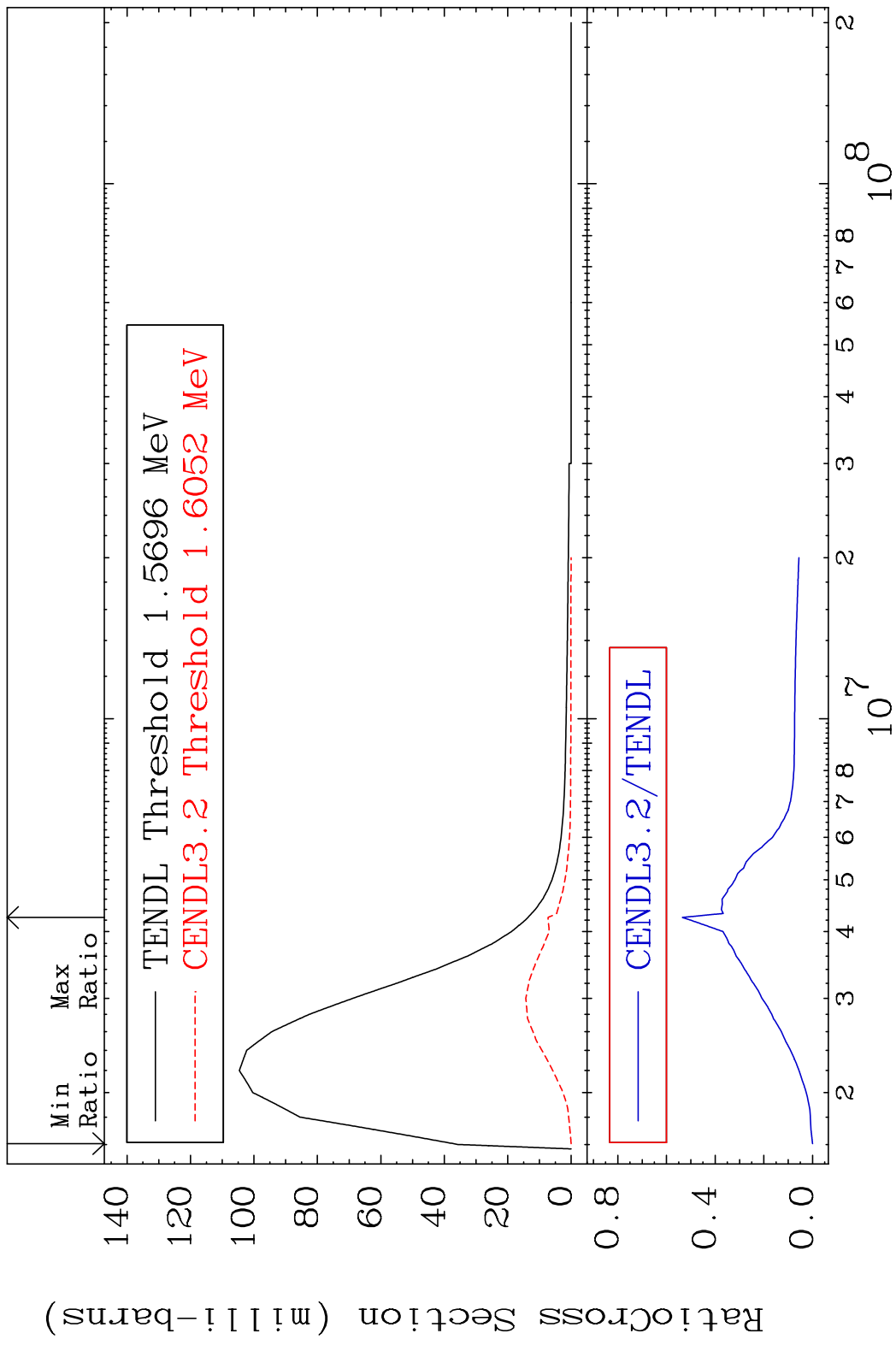
MAT 5625 MT= 57 (n,n') Level 56-Ba-130
 Cross Section -100.0 To 2.232 %



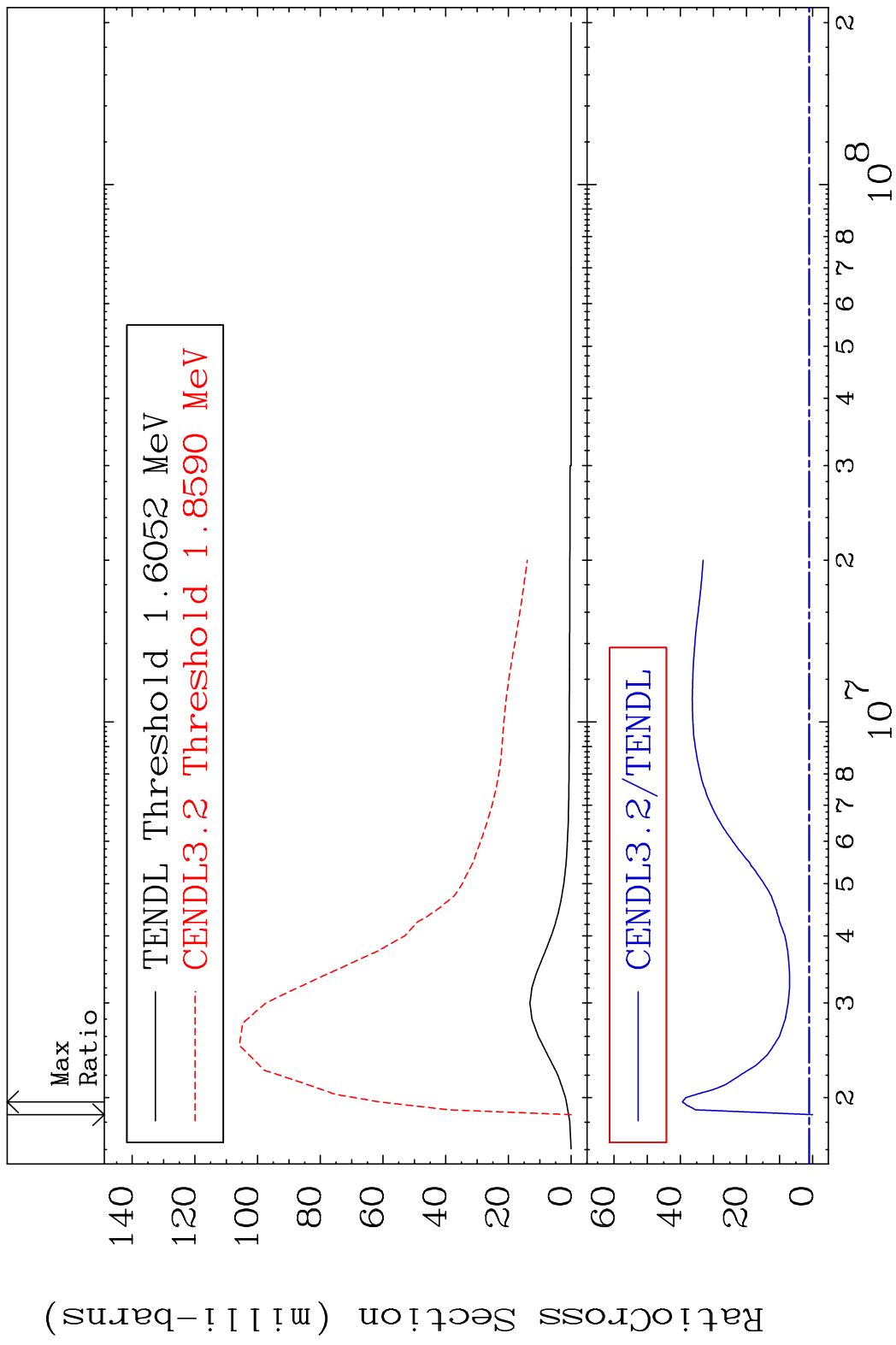
MAT 5625 MT= 58 (n, n') Level 56-Ba-130
 Cross Section -100.0 To 9999. %



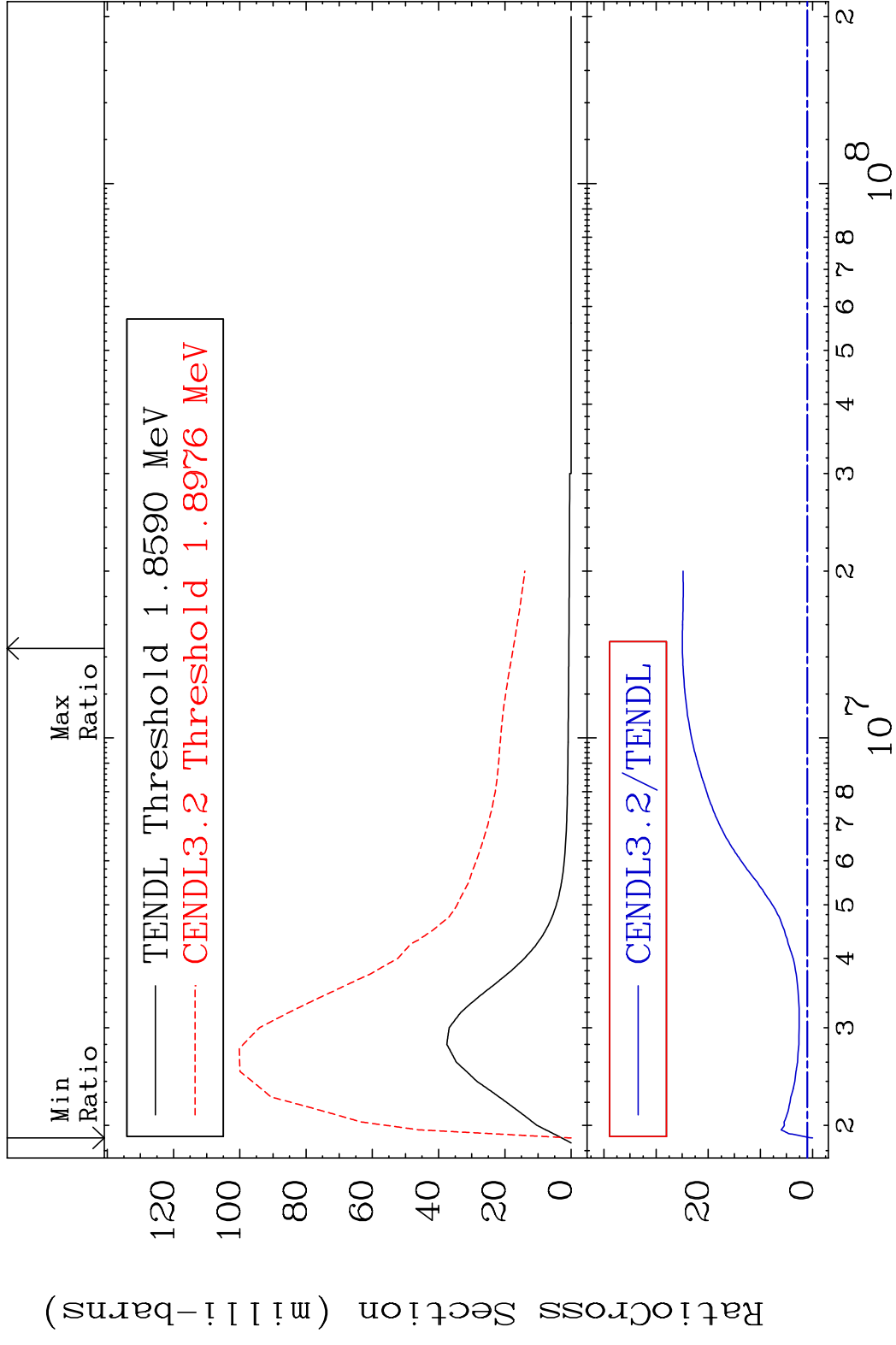
MAT 5625 MT= 59 (n,n') Level 56-Ba-130
 Cross Section -100.0 To -46.52%



MAT 5625 MT= 60 (n,n') Level 56-Ba-130
 Cross Section -100.0 To 3836. %

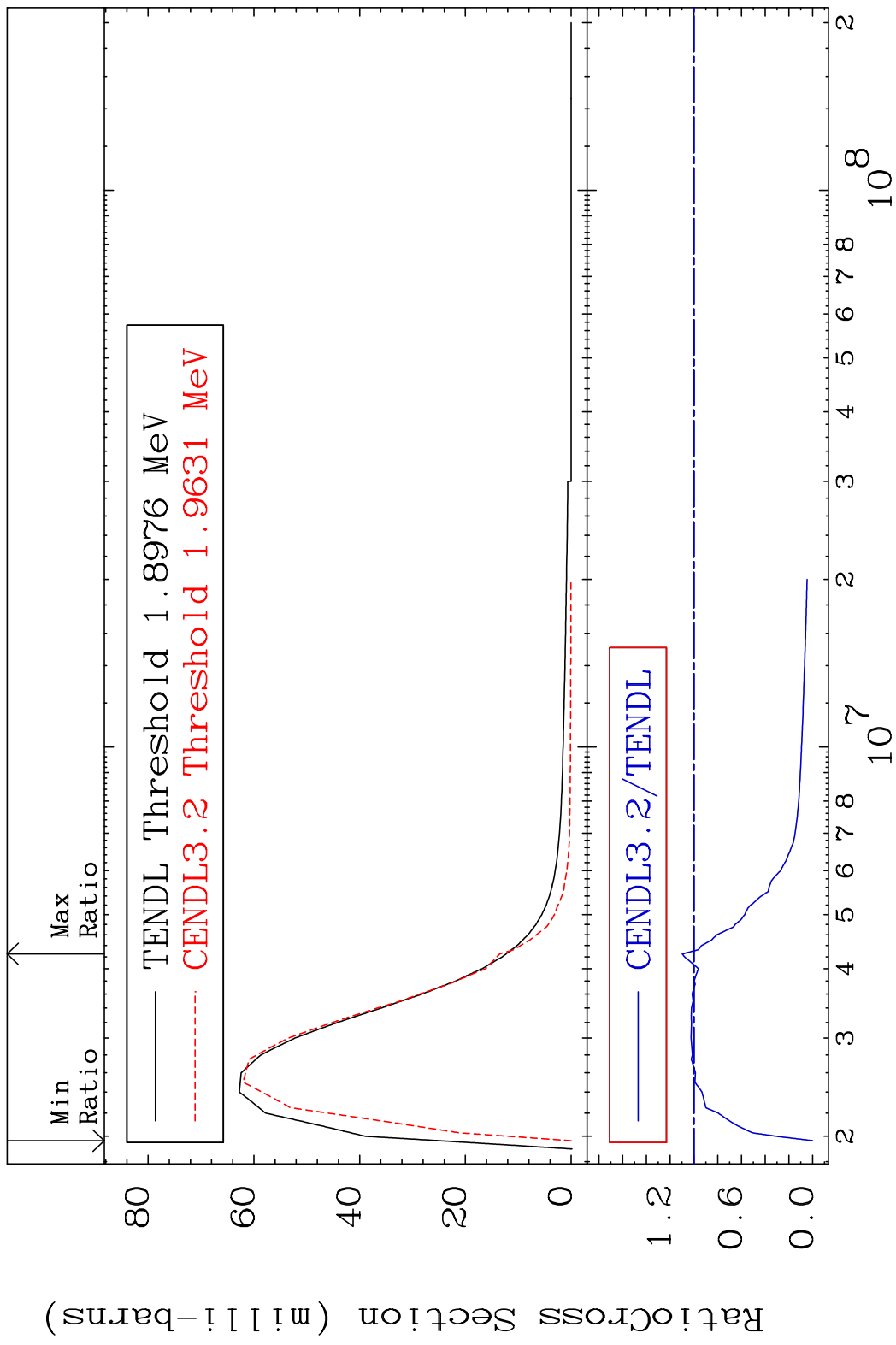


MAT 5625 MT= 61 (n, n') Level 56-Ba-130
 Cross Section -100.0 To 2397. %

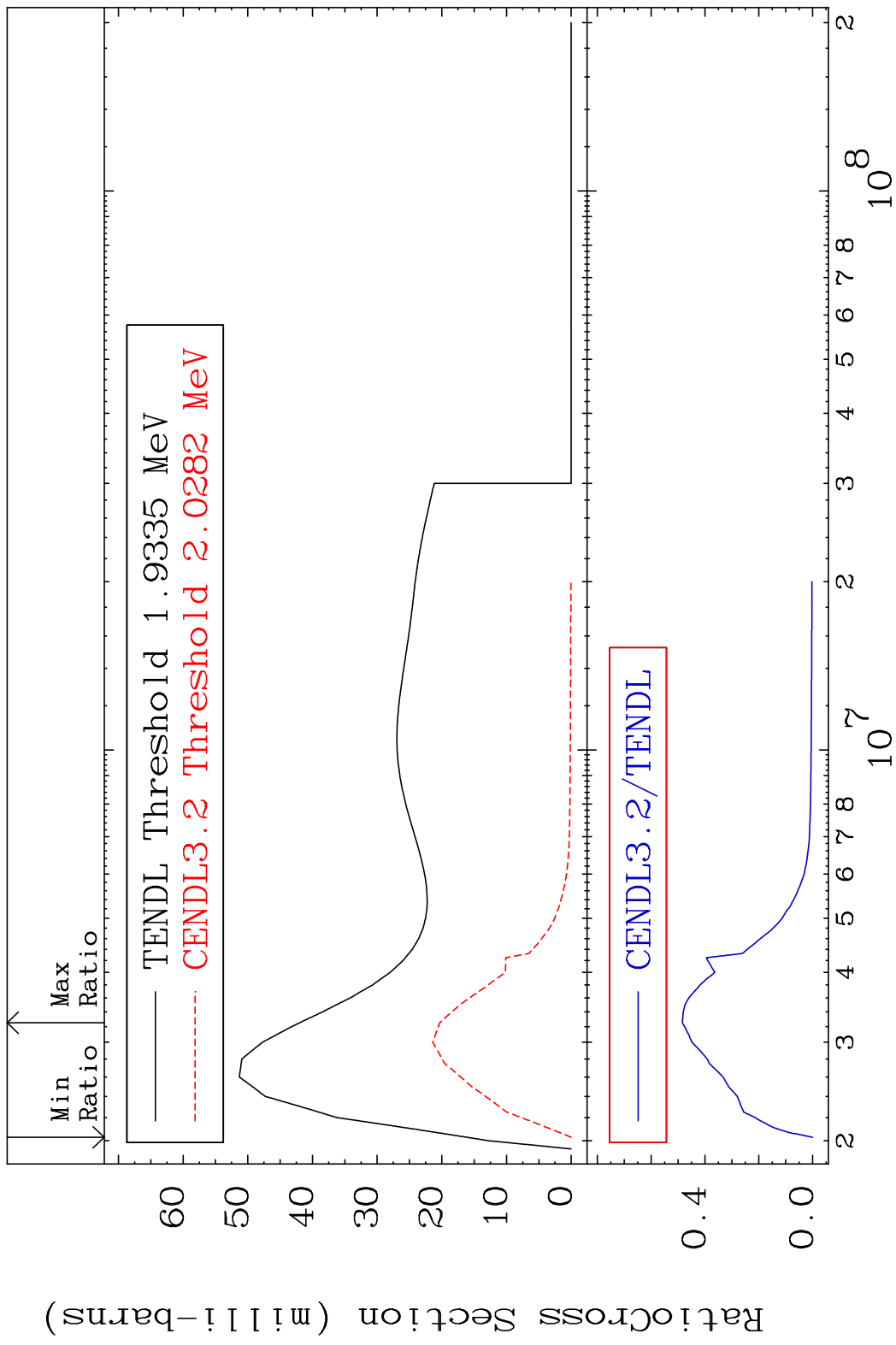


18 18 Incident Energy (eV) 56-Ba-130

MAT 5625 MT= 62 (n, n') Level 56-Ba-130
 Cross Section -100.0 To 9.730 %

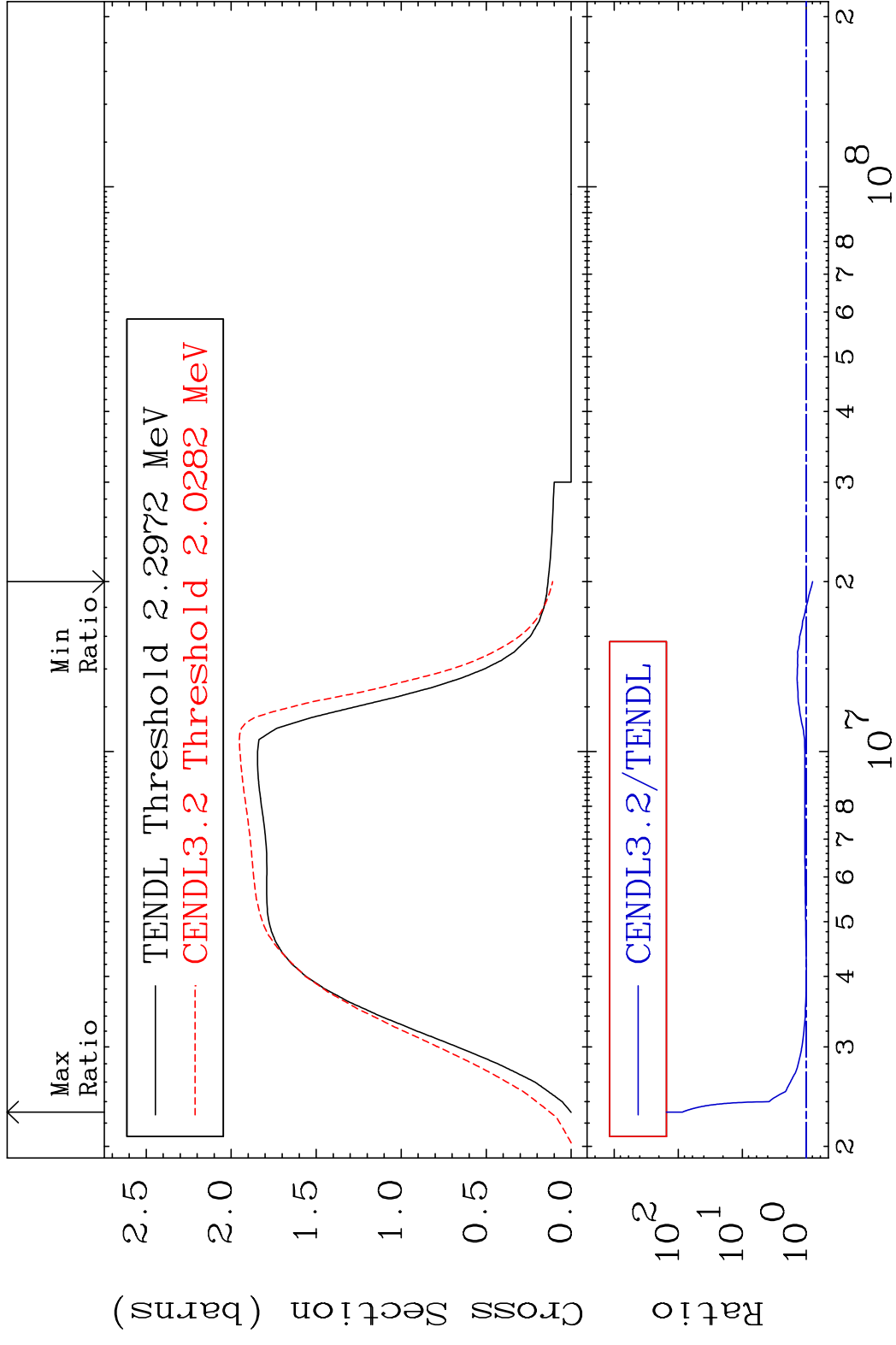


MAT 5625 MT= 63 (n, n') Level 56-Ba-130
 Cross Section -100.0 To -51.59%



20 Incident Energy (eV) 56-Ba-130

MAT 5625 (n,n') Continuum 56-Ba-130
 Cross Section -20.27 To 8530. %

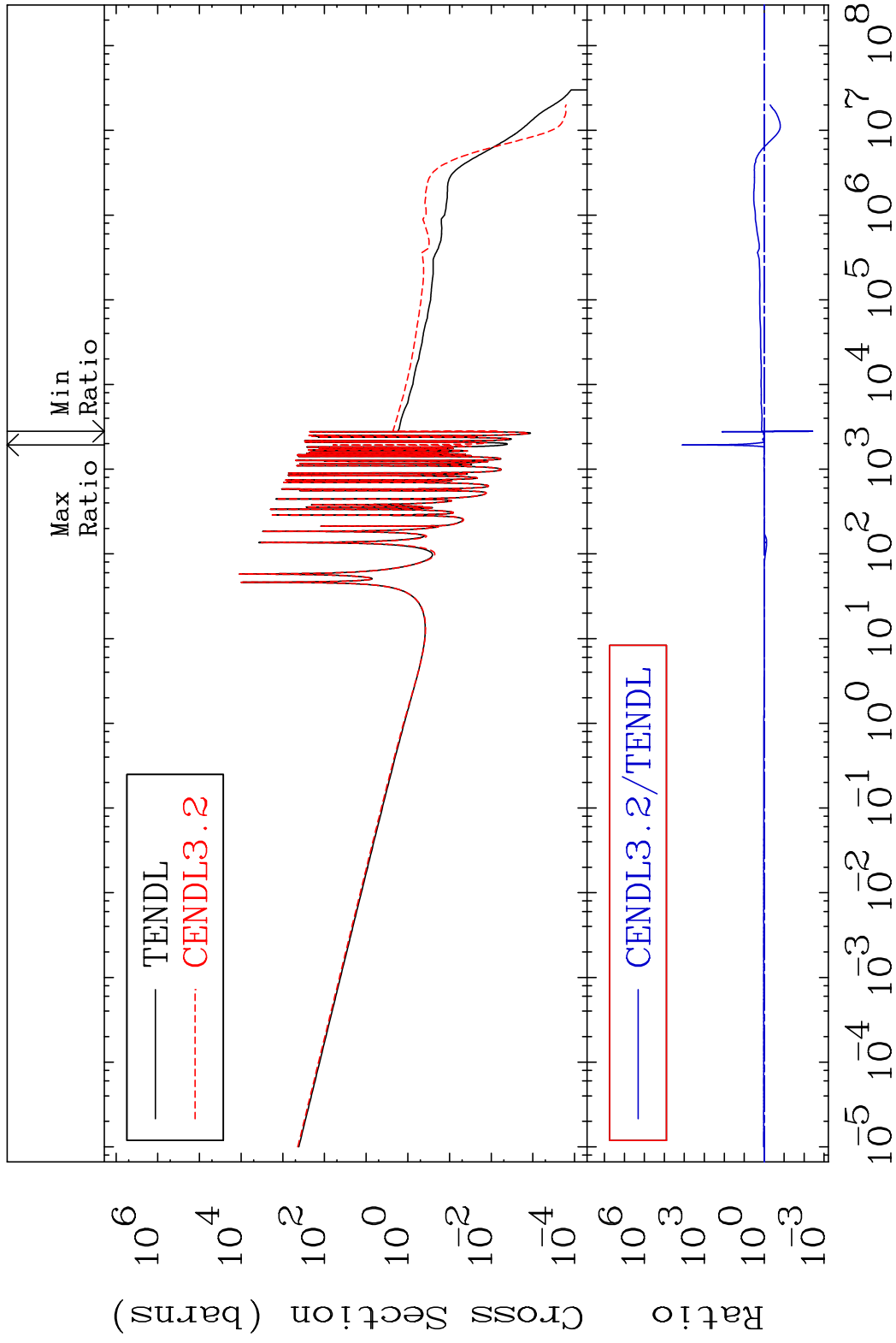


MAT 5625

(n, γ)

56-Ba-130

Cross Section -99.62 To 9999. %



22

Incident Energy (eV)

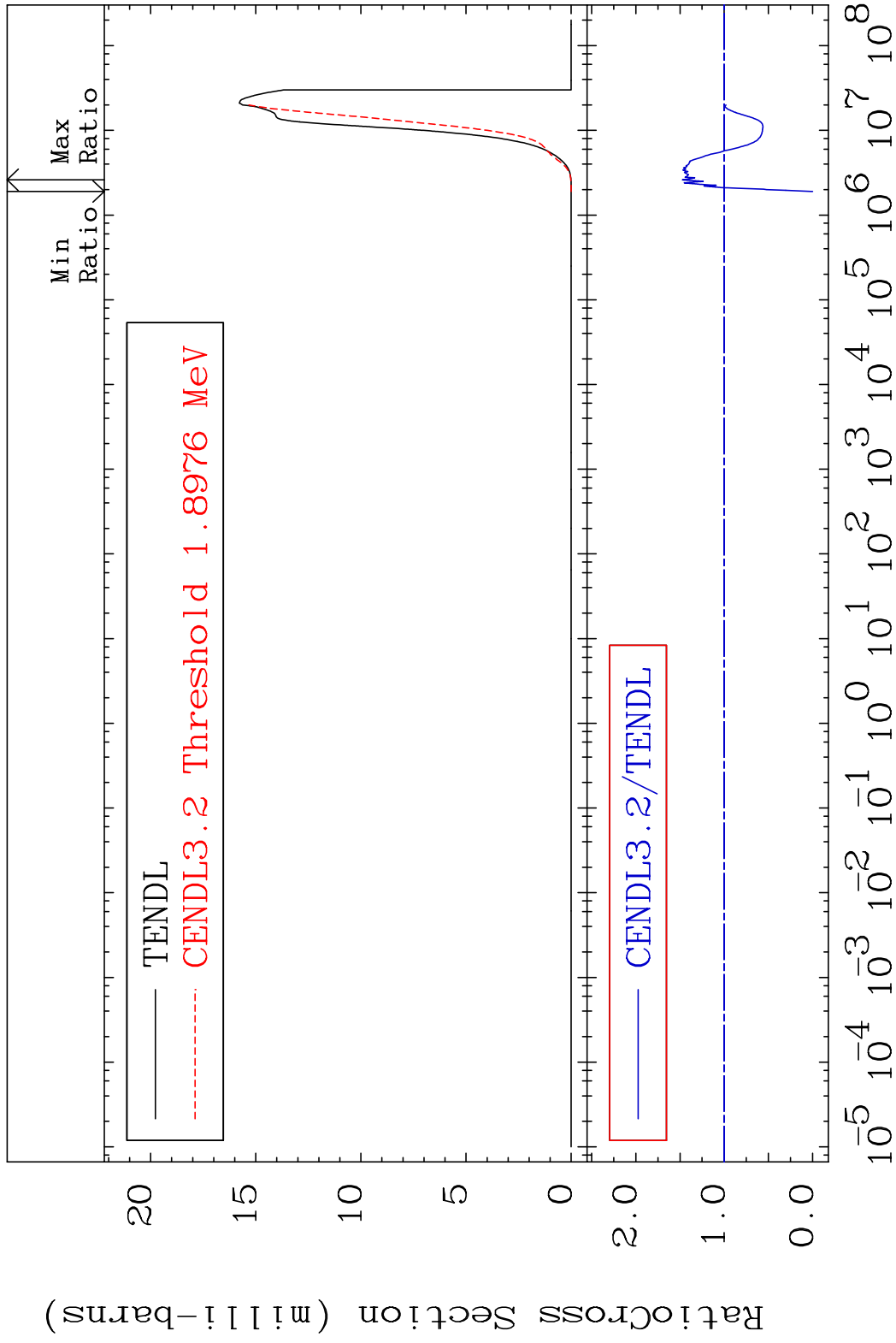
56-Ba-130

MAT 5625

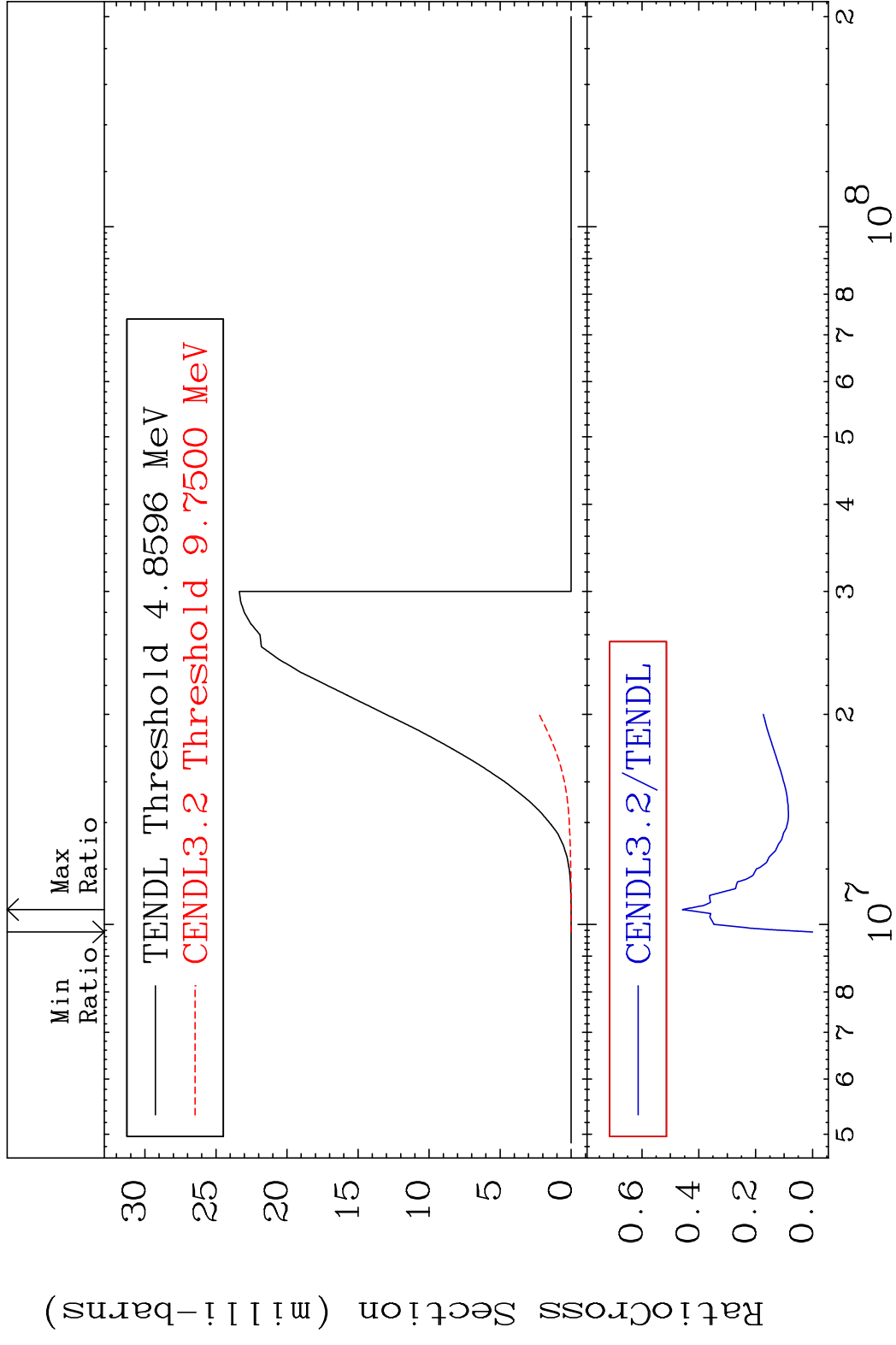
(n, p)

56-Ba-130

Cross Section -100.0 To 47.34 %



MAT 5625 (n,d) 56-Ba-130
 Cross Section -100.0 To -54.20%

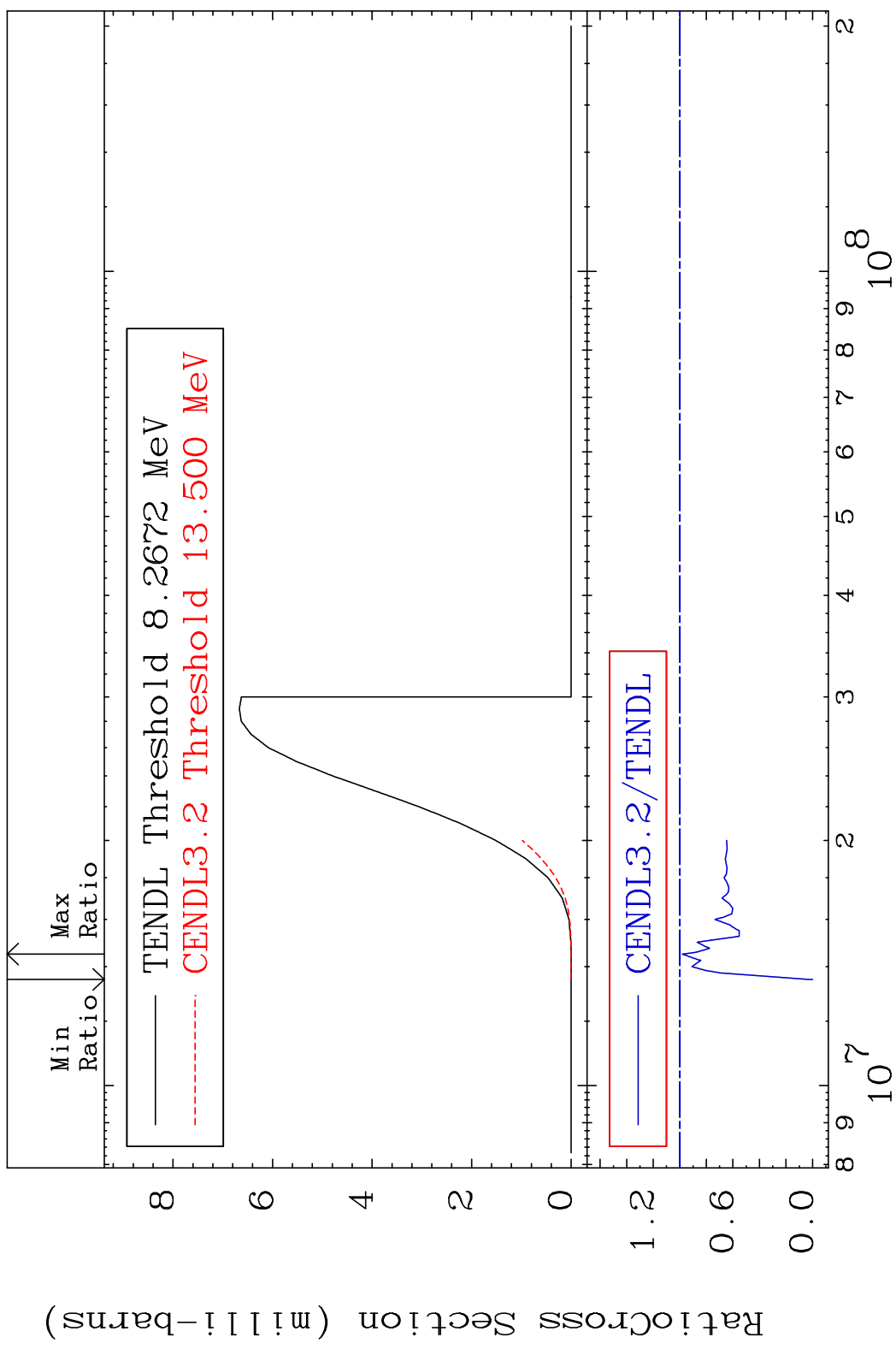


MAT 5625

(n, t)

56-Ba-130

Cross Section -100.0 To -1.925%



25

Incident Energy (eV)

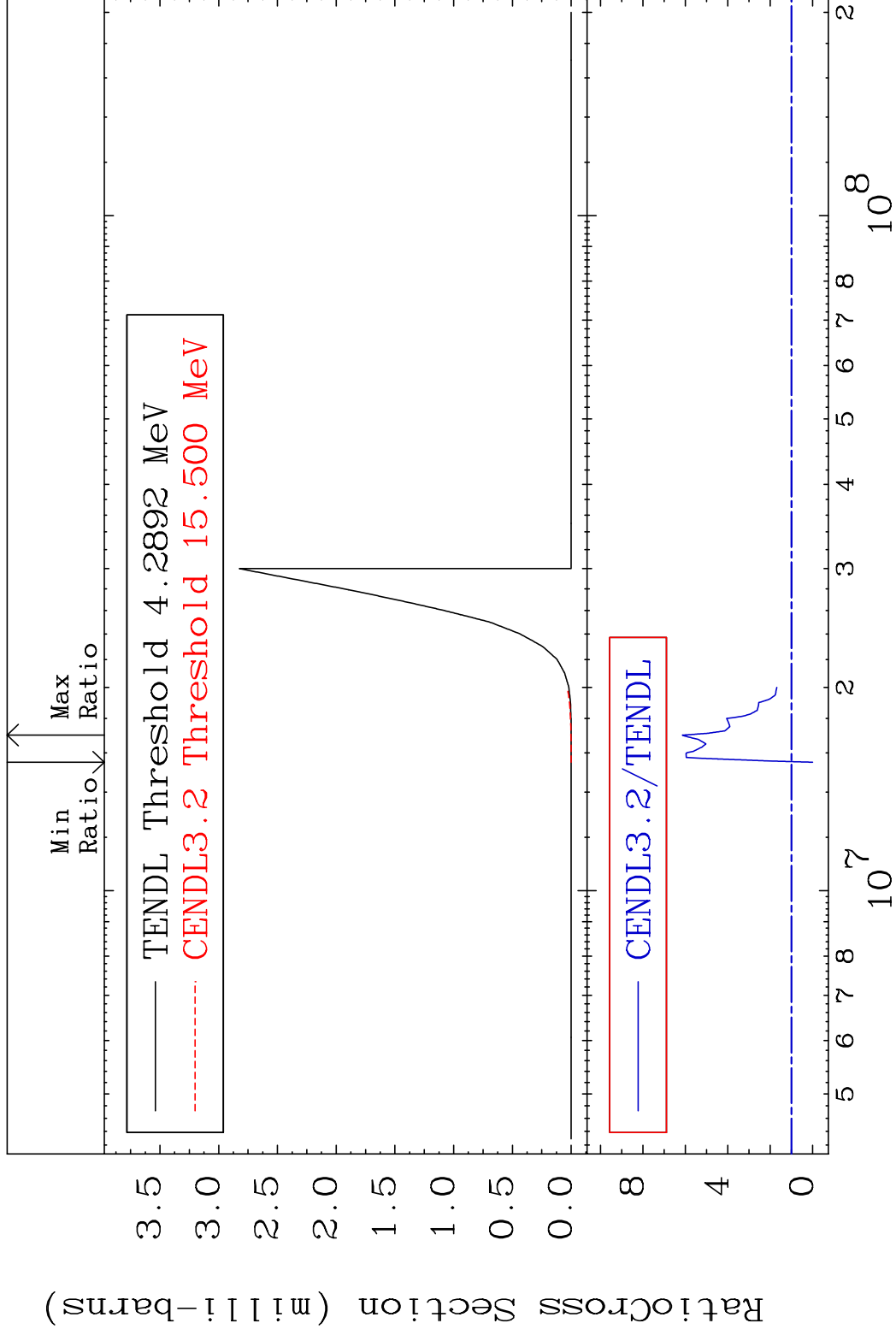
56-Ba-130

MAT 5625

(n, He-3)

56-Ba-130

Cross Section -100.0 To 514.2 %



26

Incident Energy (eV)

56-Ba-130

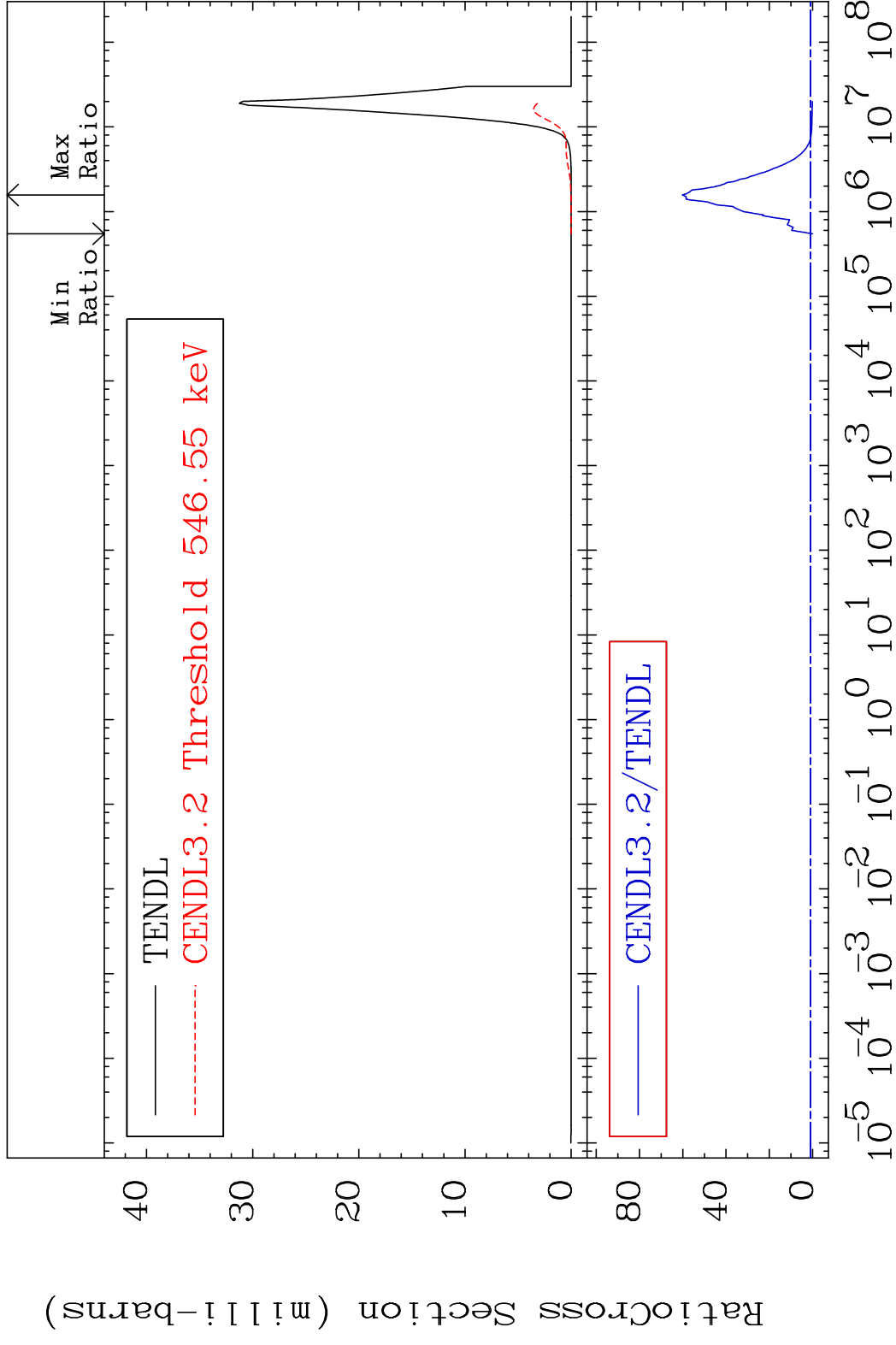
MAT 5625

(n, α)

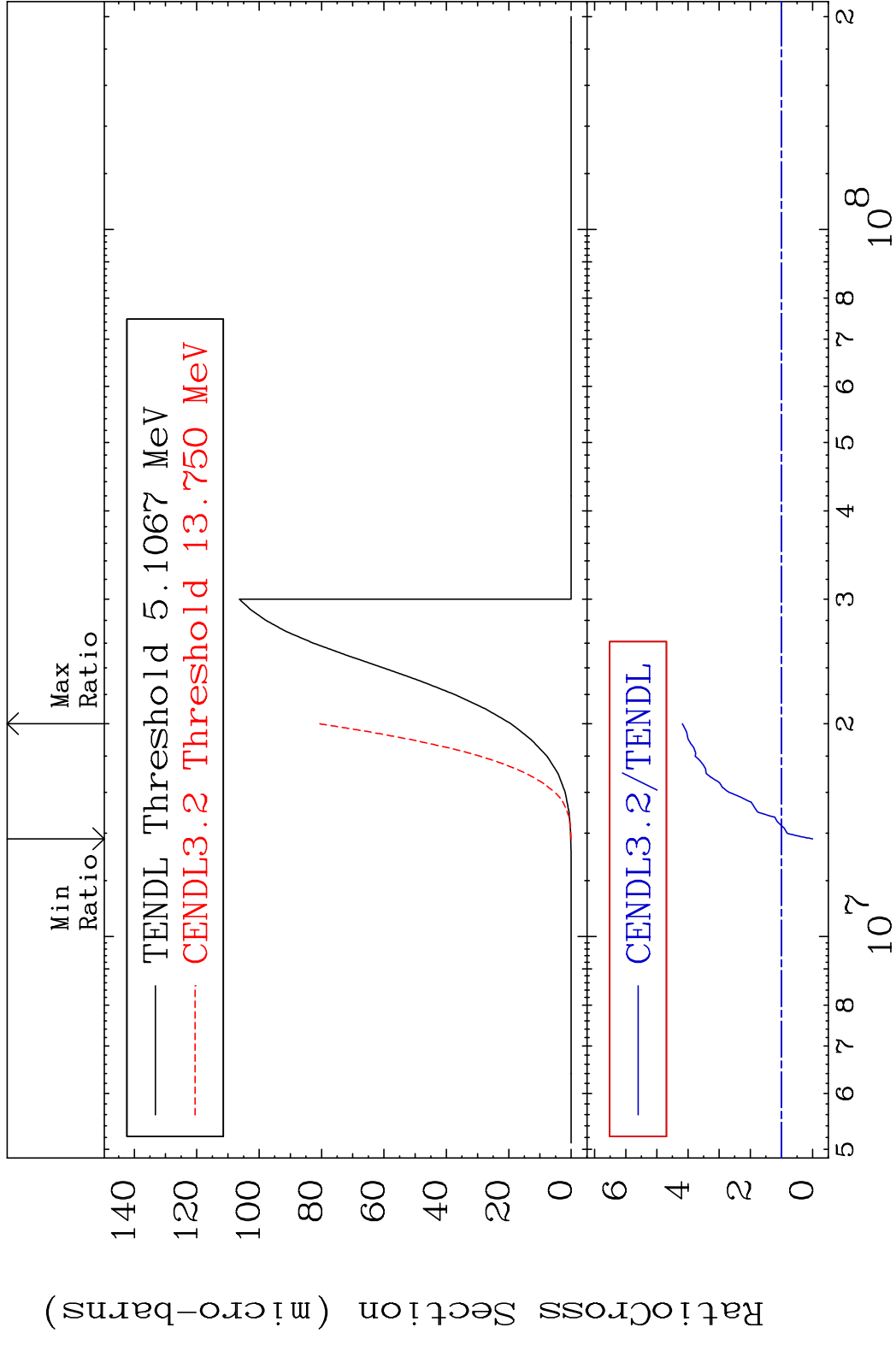
56-Ba-130

Cross Section

-100.0 To 5921. %



MAT 5625 (n,2p) 56-Ba-130
 Cross Section -100.0 To 318.2 %

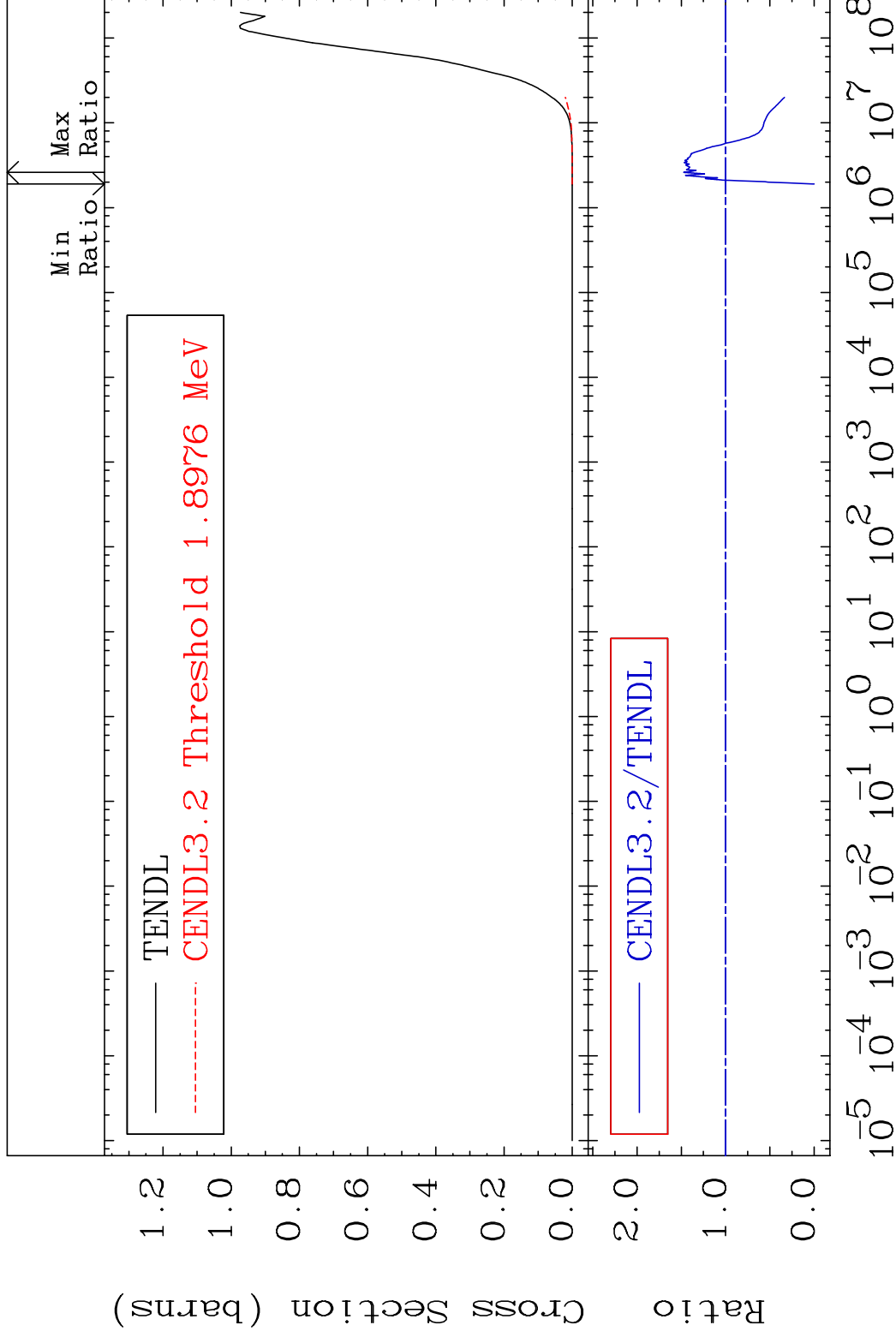


MAT 5625

Hydrogen Production

56-Ba-130

Cross Section -100.0 To 47.34 %



29

Incident Energy (eV)

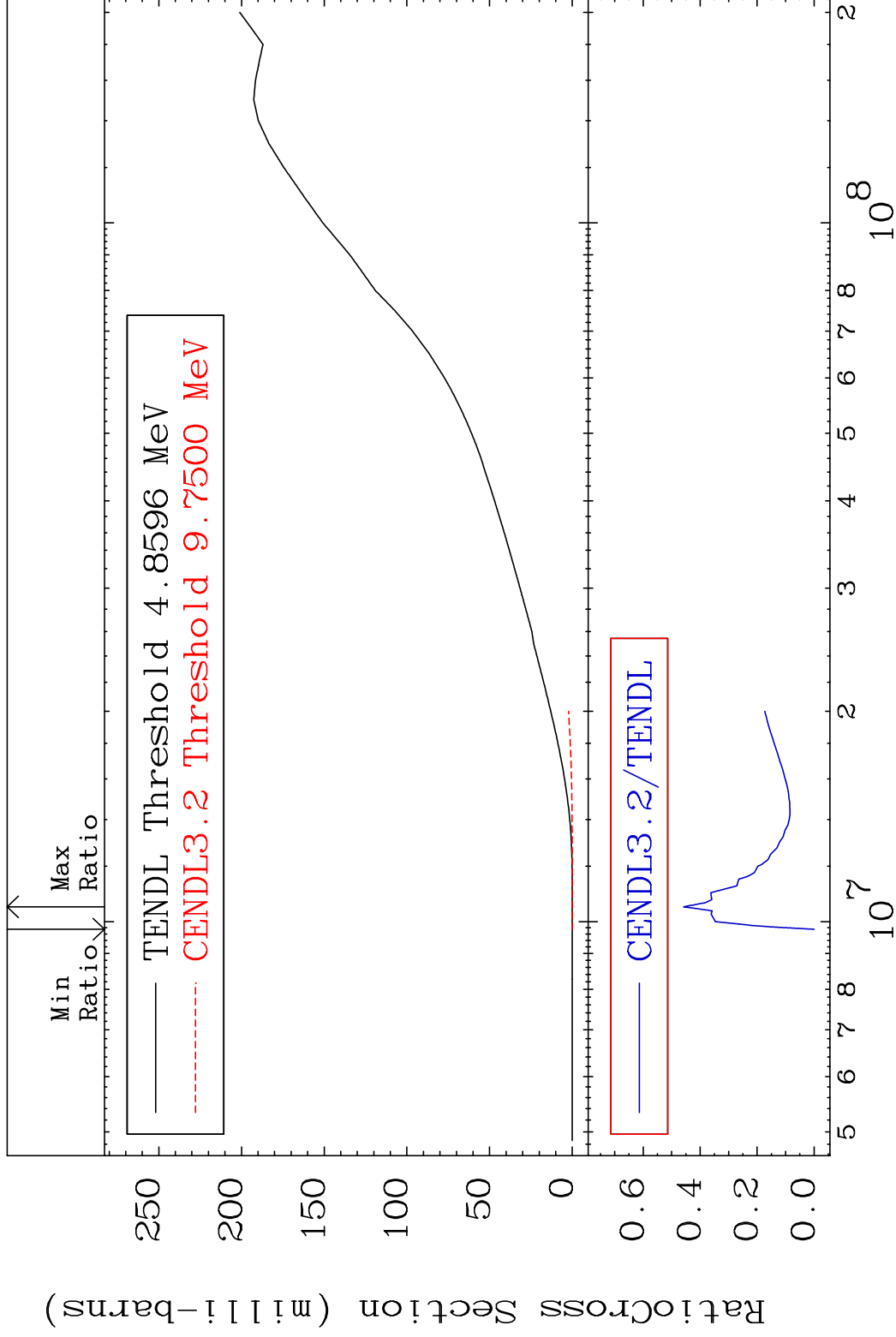
56-Ba-130

MAT 5625

Deuterium Production

56-Ba-130

Cross Section -100.0 To -54.20%



30

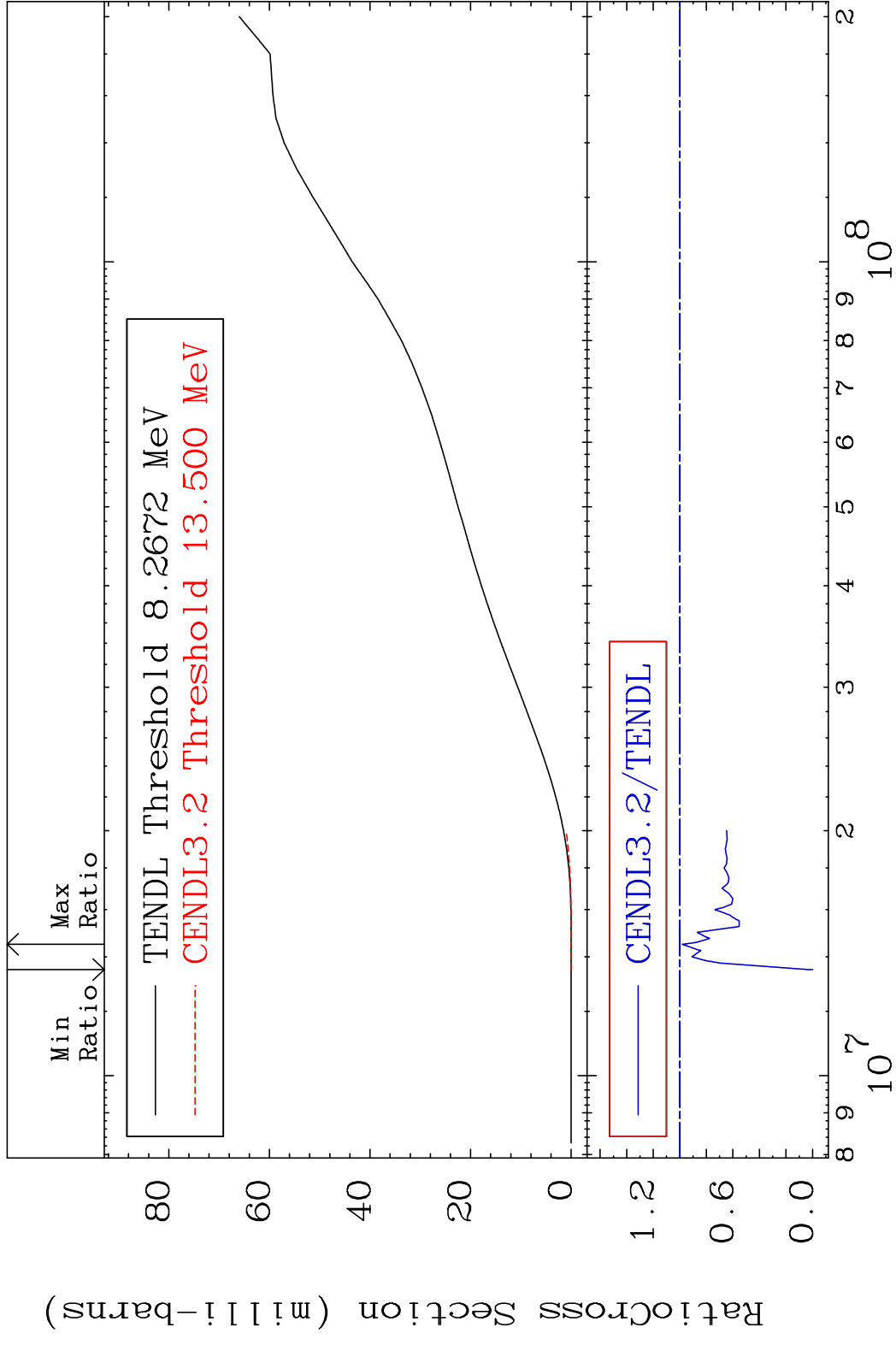
Incident Energy (eV)

56-Ba-130

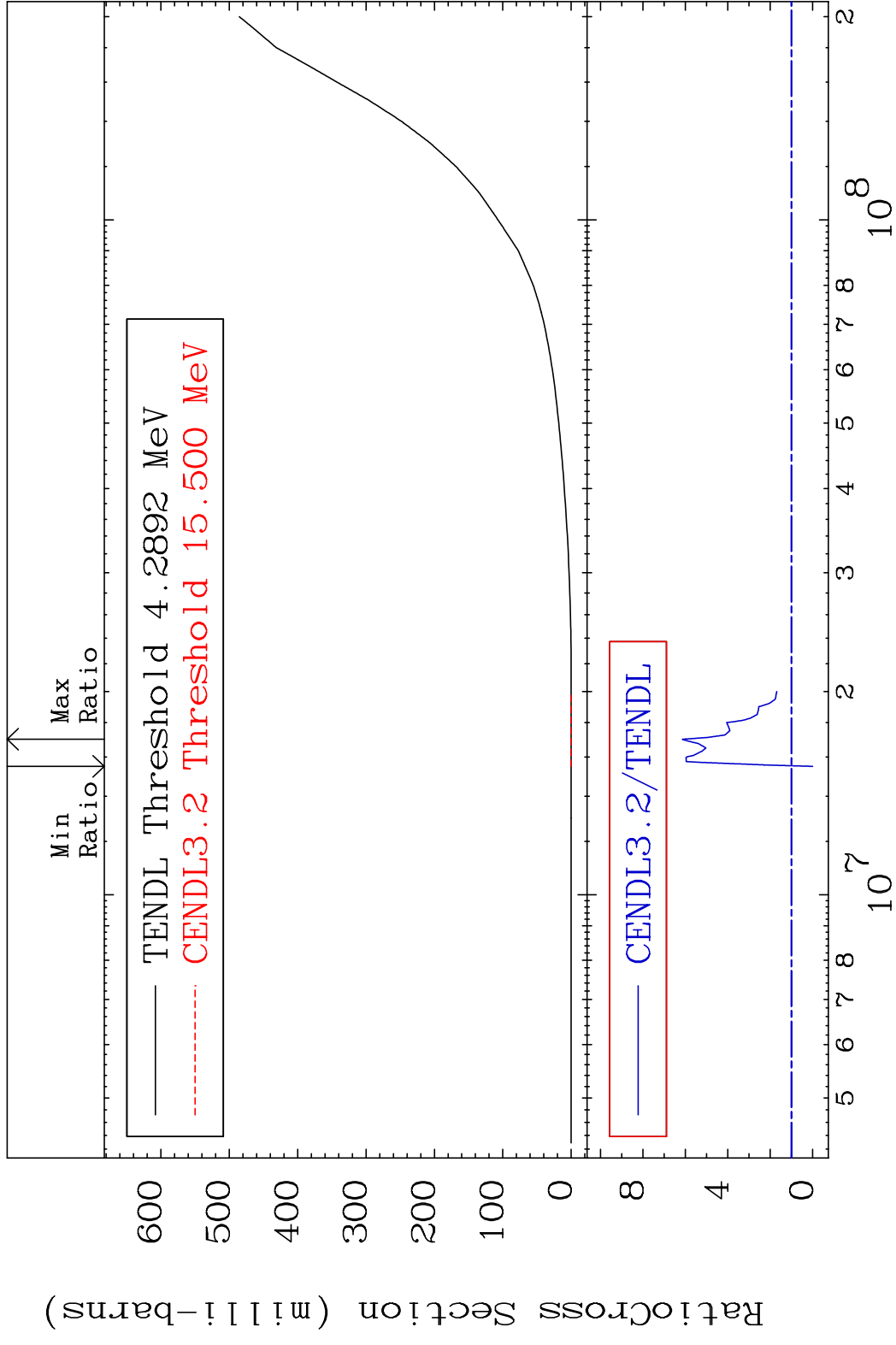
MAT 5625

Tritium Production 56-Ba-130

Cross Section -100.0 To -1.925%



MAT 5625 He-3 Production 56-Ba-130
 Cross Section -100.0 To 514.2 %

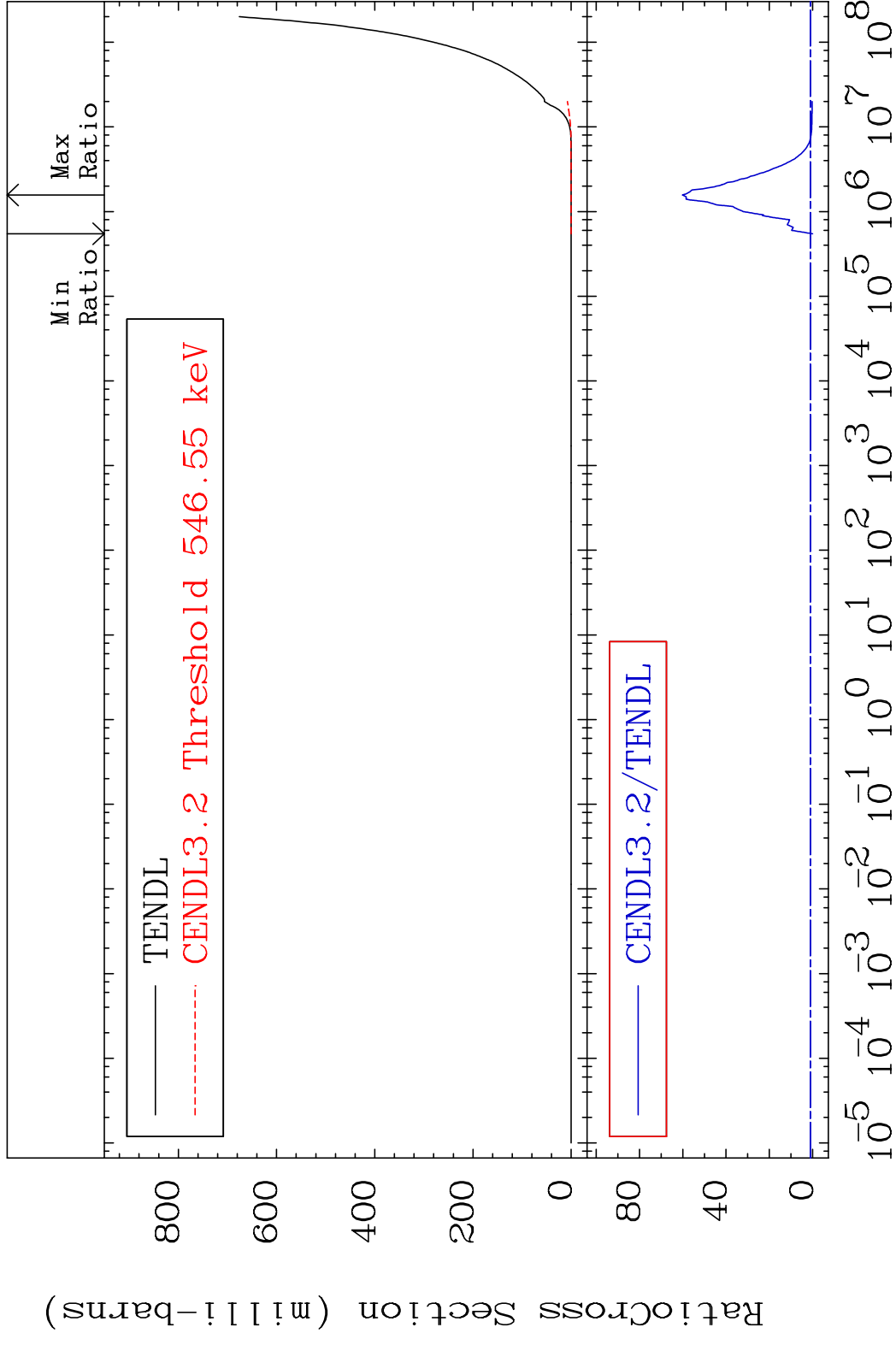


MAT 5625

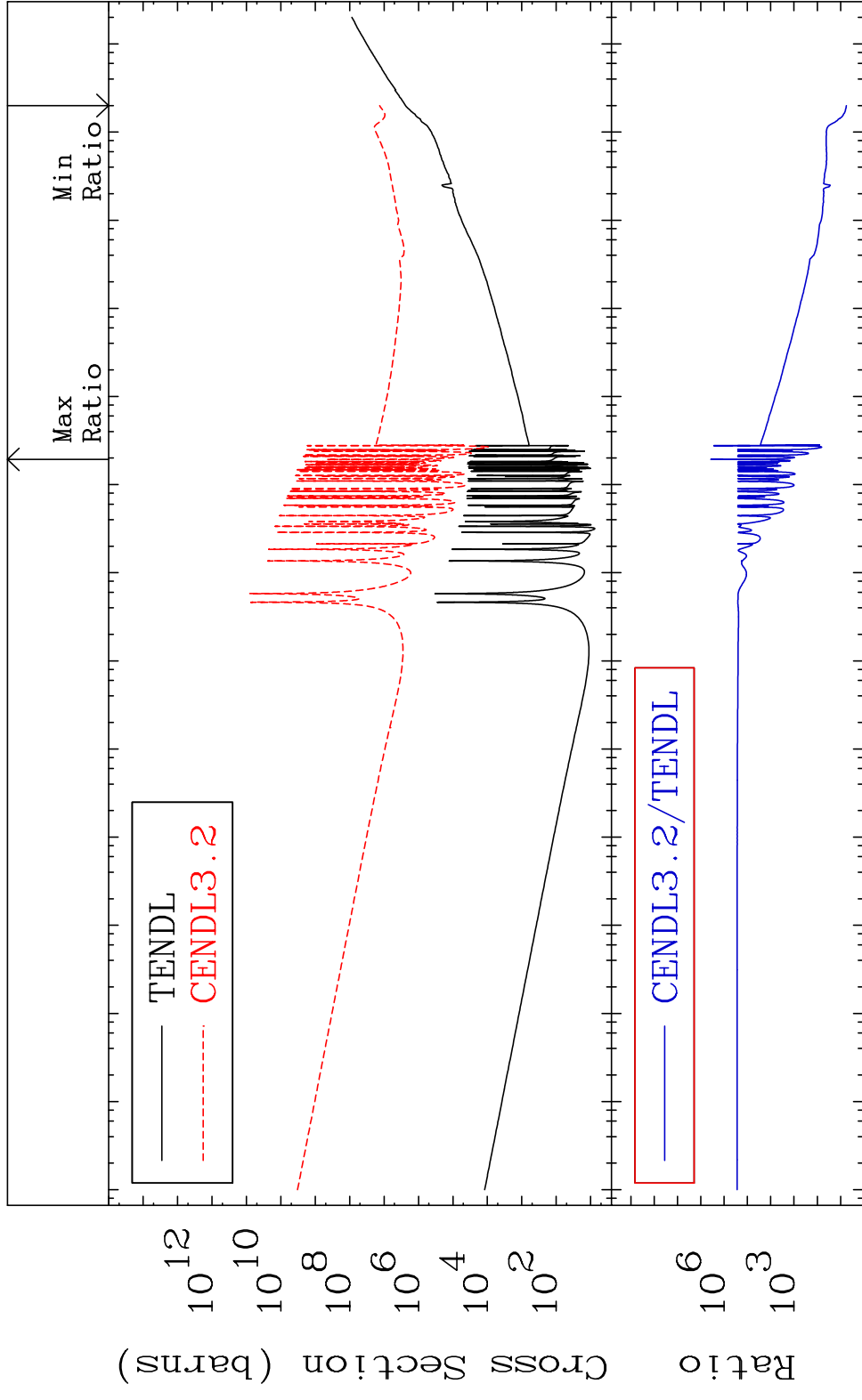
He-4 Production

56-Ba-130

Cross Section -100.0 To 5921. %



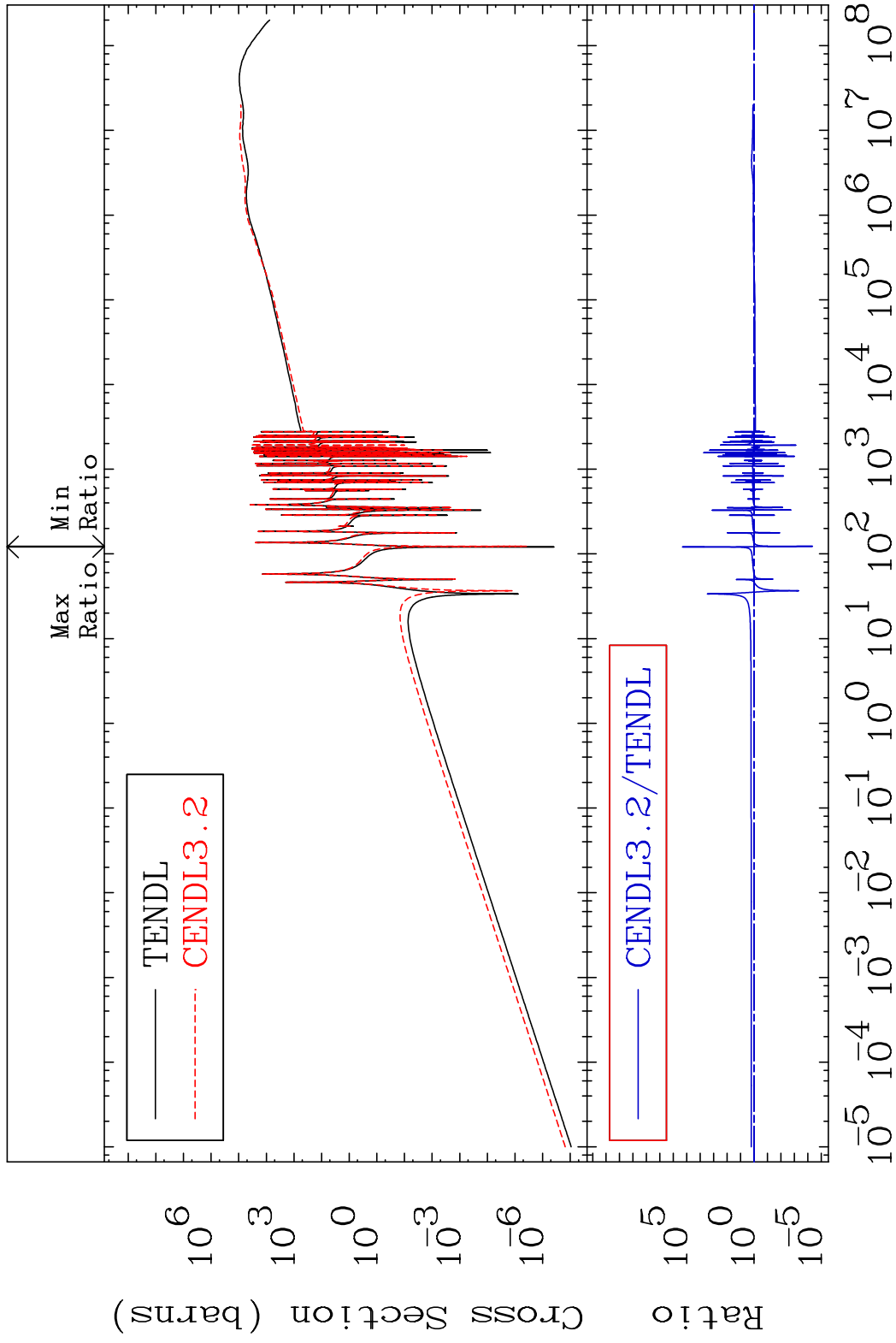
MAT 5625 Kerma total (eV-barns) 56-Ba-130
 Cross Section 466.7 To 9999. %



MAT 5625

Kerma elastic
Cross Section

56-Ba-130
-100.0 To 9999. %

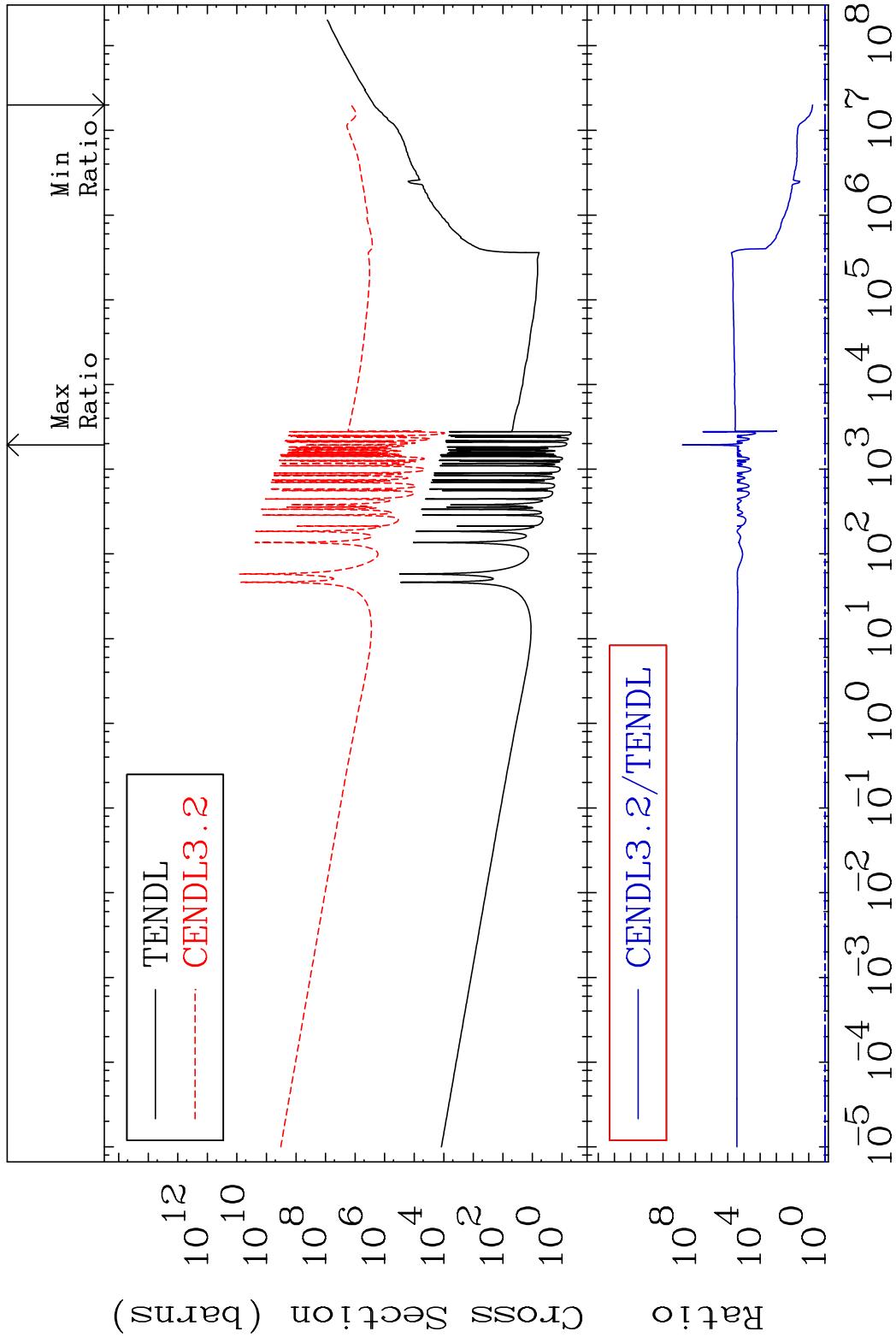


35

Incident Energy (eV)

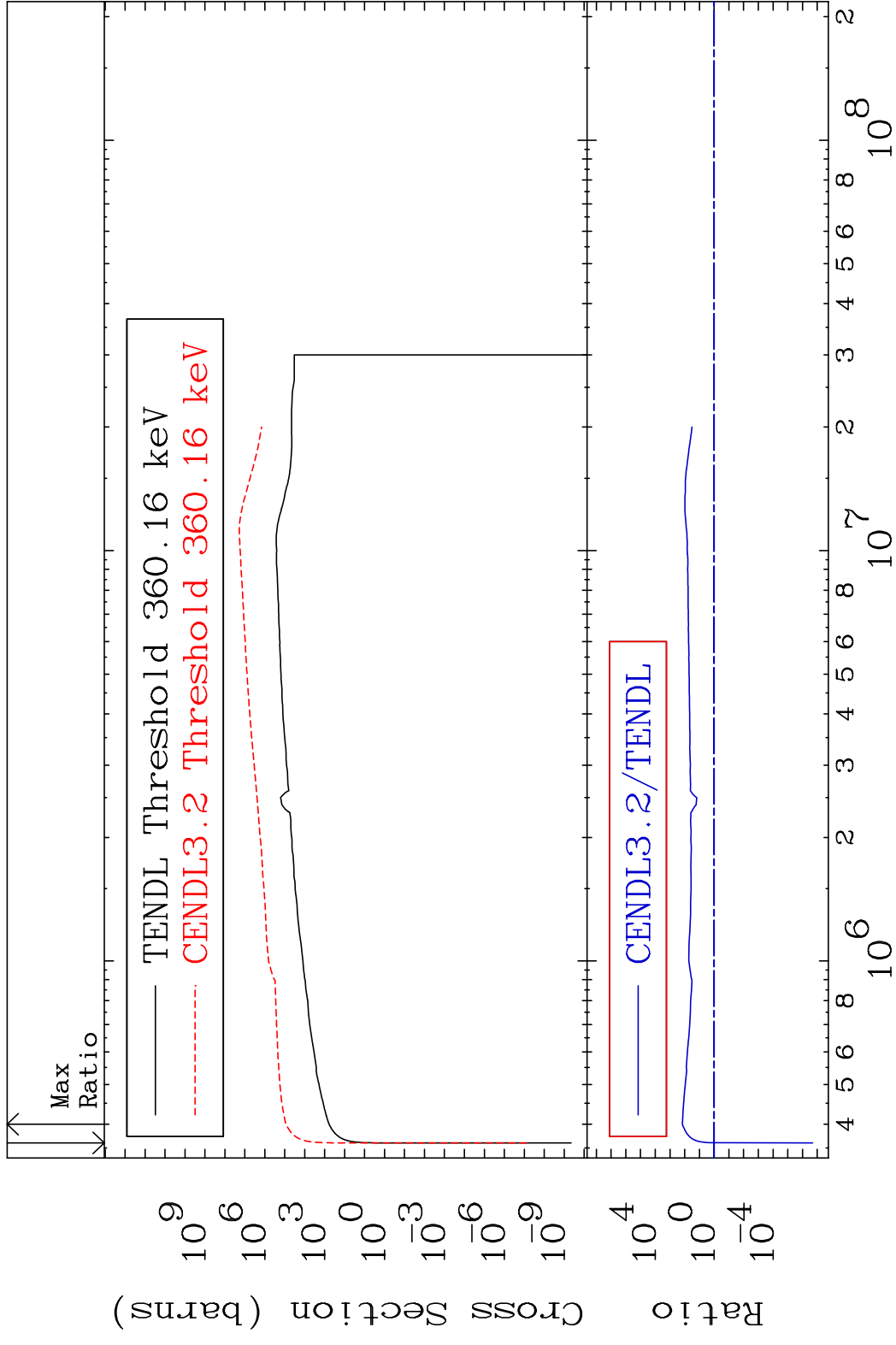
56-Ba-130

MAT 5625 Kerma non-elastic (all but mt2) 56-Ba-130
 Cross Section 480.5 To 9999. %

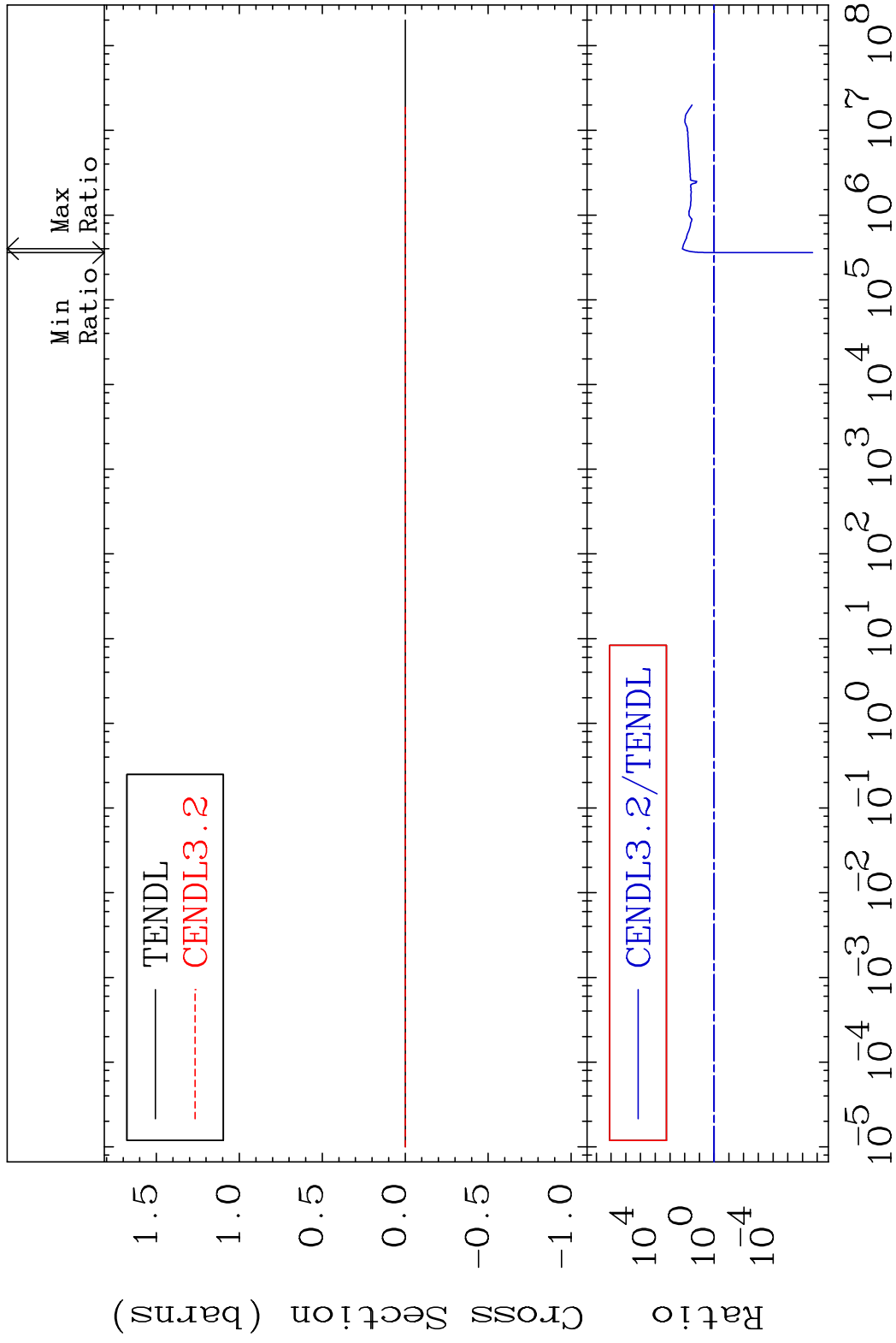


36 Incident Energy (eV) 56-Ba-130

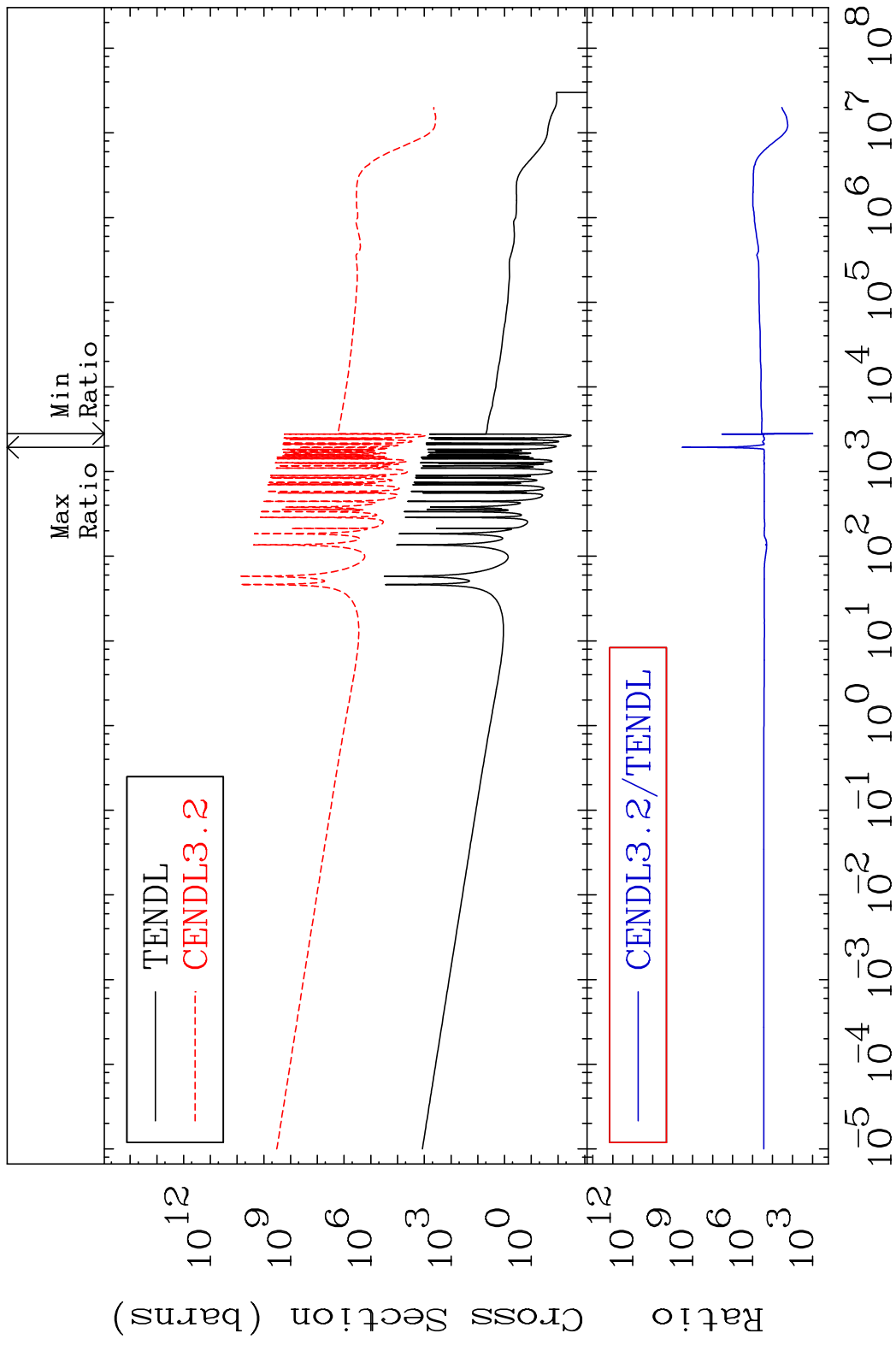
MAT 5625 Kerma inelastic (mt51-91) 56-Ba-130
 Cross Section -100.0 To 9999. %



MAT 5625 Kerma fission (mt18 or mt19-20-21-38) 56-Ba-130
 Cross Section -100.0 To 9999. %

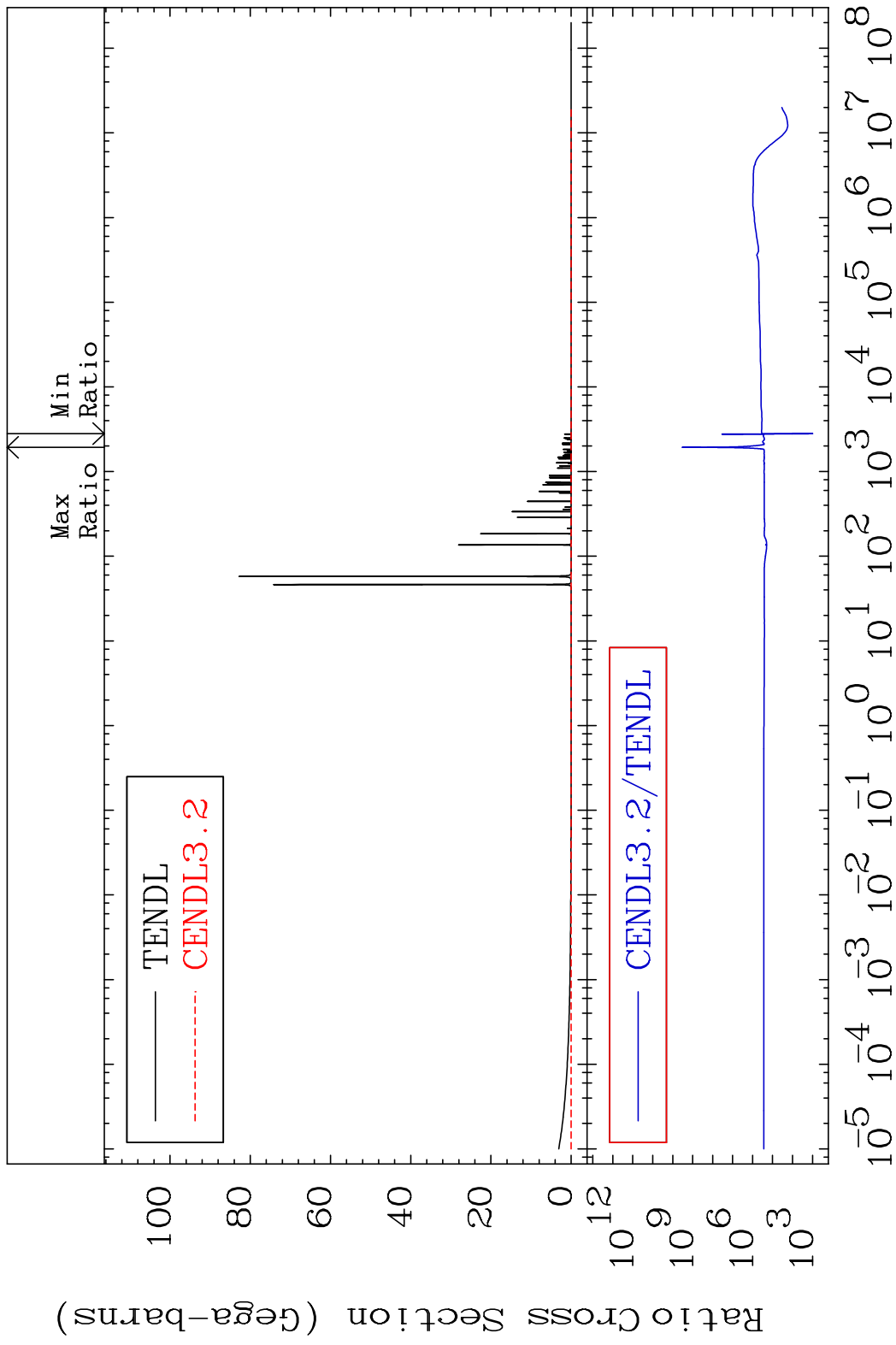


MAT 5625 Kerma capture (mt102) 56-Ba-130
 Cross Section 9999. To 9999. %



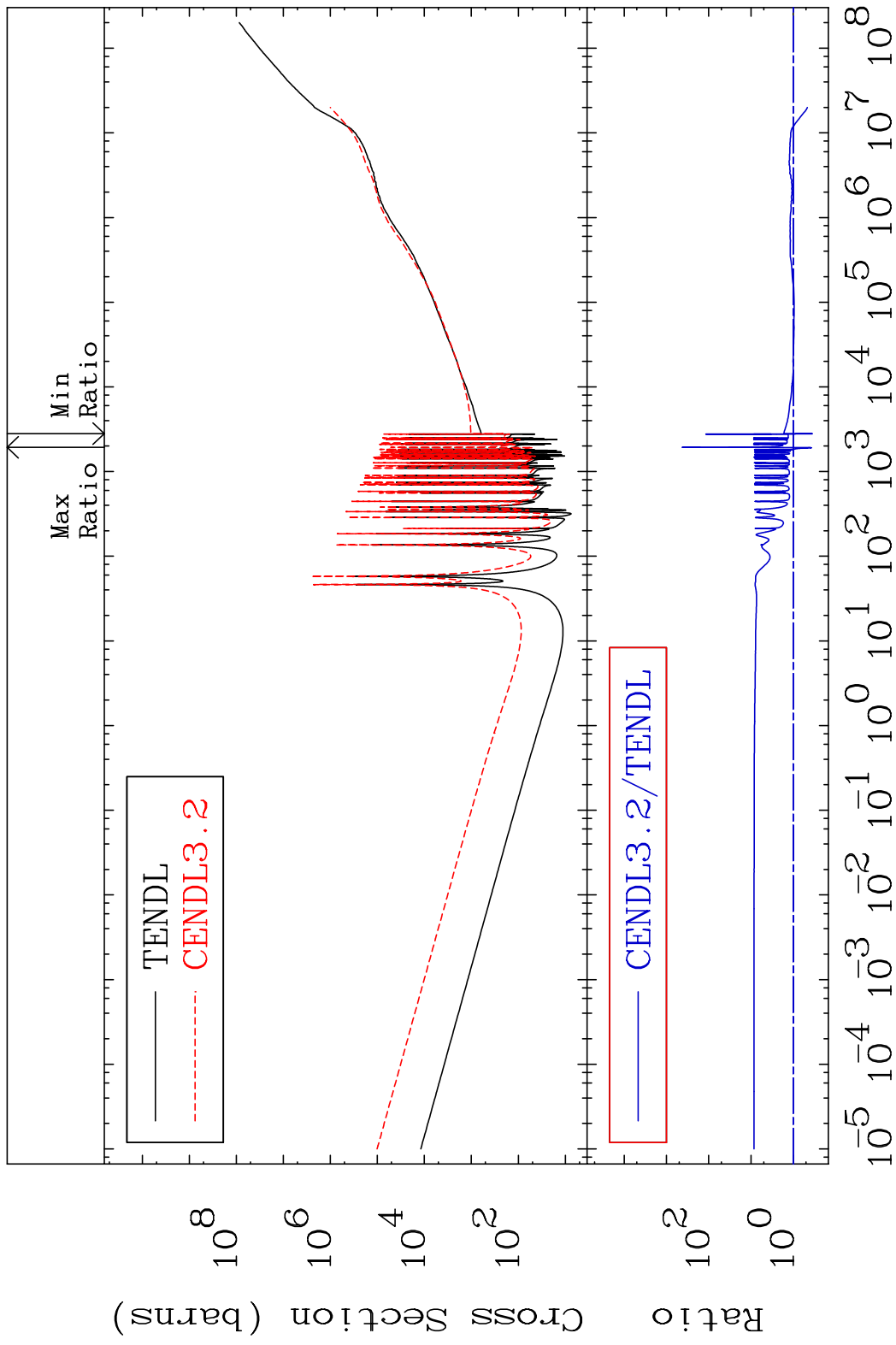
39 Incident Energy (eV) 56-Ba-130

MAT 5625 Total photon (eV-barns) 56-Ba-130
Cross Section 9999. To 9999. %



40 Incident Energy (eV) 56-Ba-130

MAT 5625 Total kinematic kerma (high limit) 56-Ba-130
 Cross Section -65.03 To 9999. %



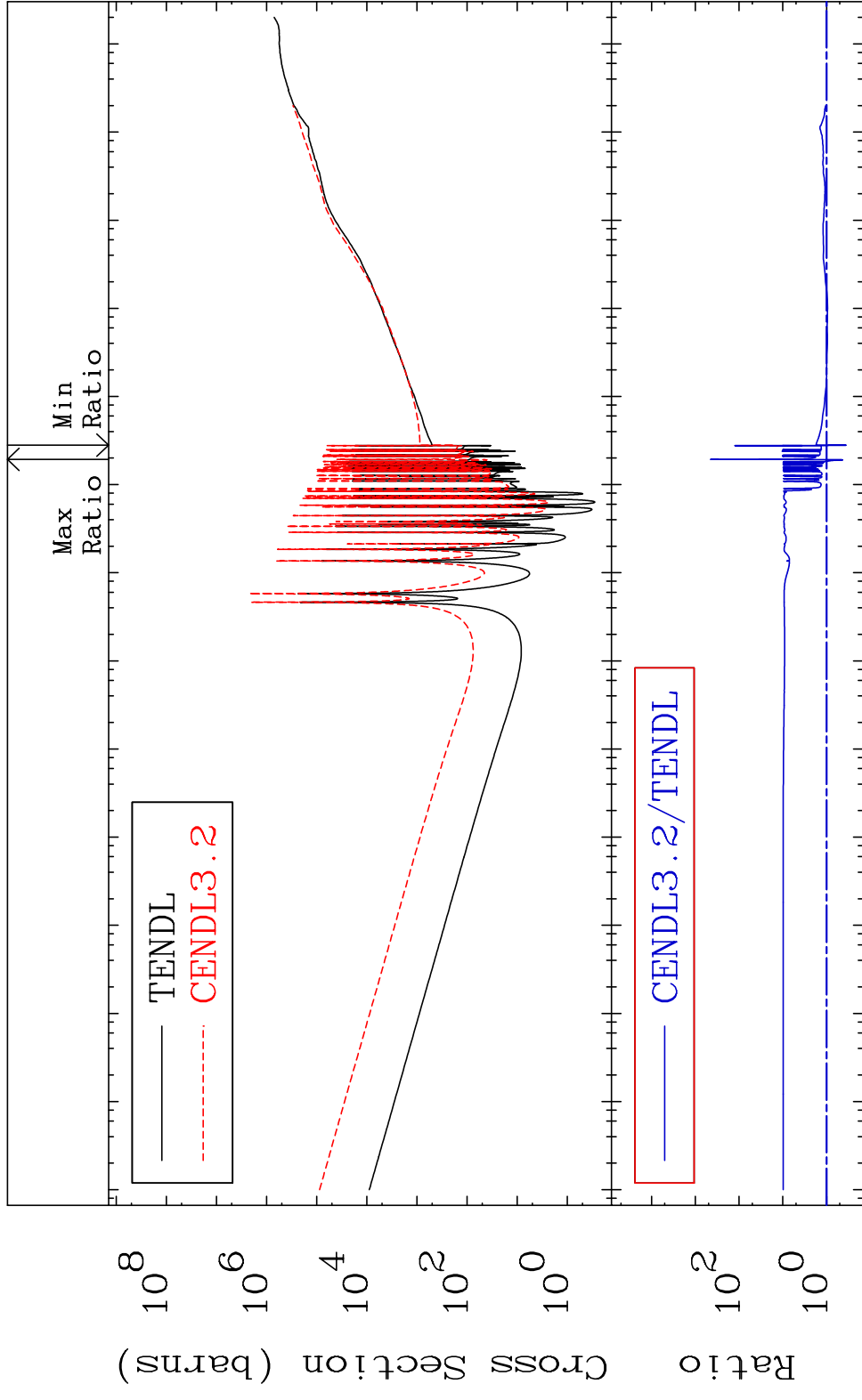
MAT 5625

Dpa total (eV-barns)

56-Ba-130

Cross Section

-64.65 To 9999. %

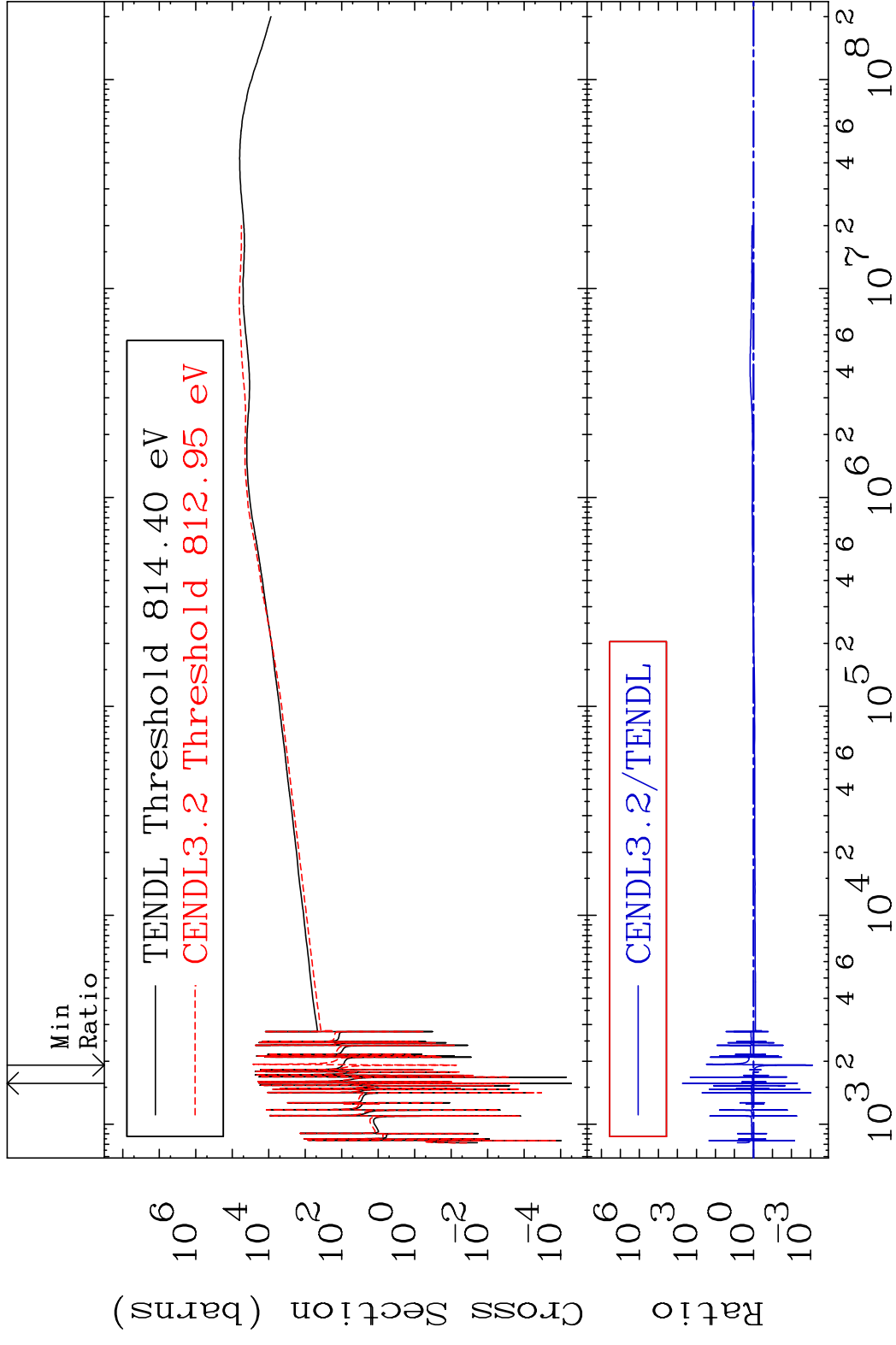


42

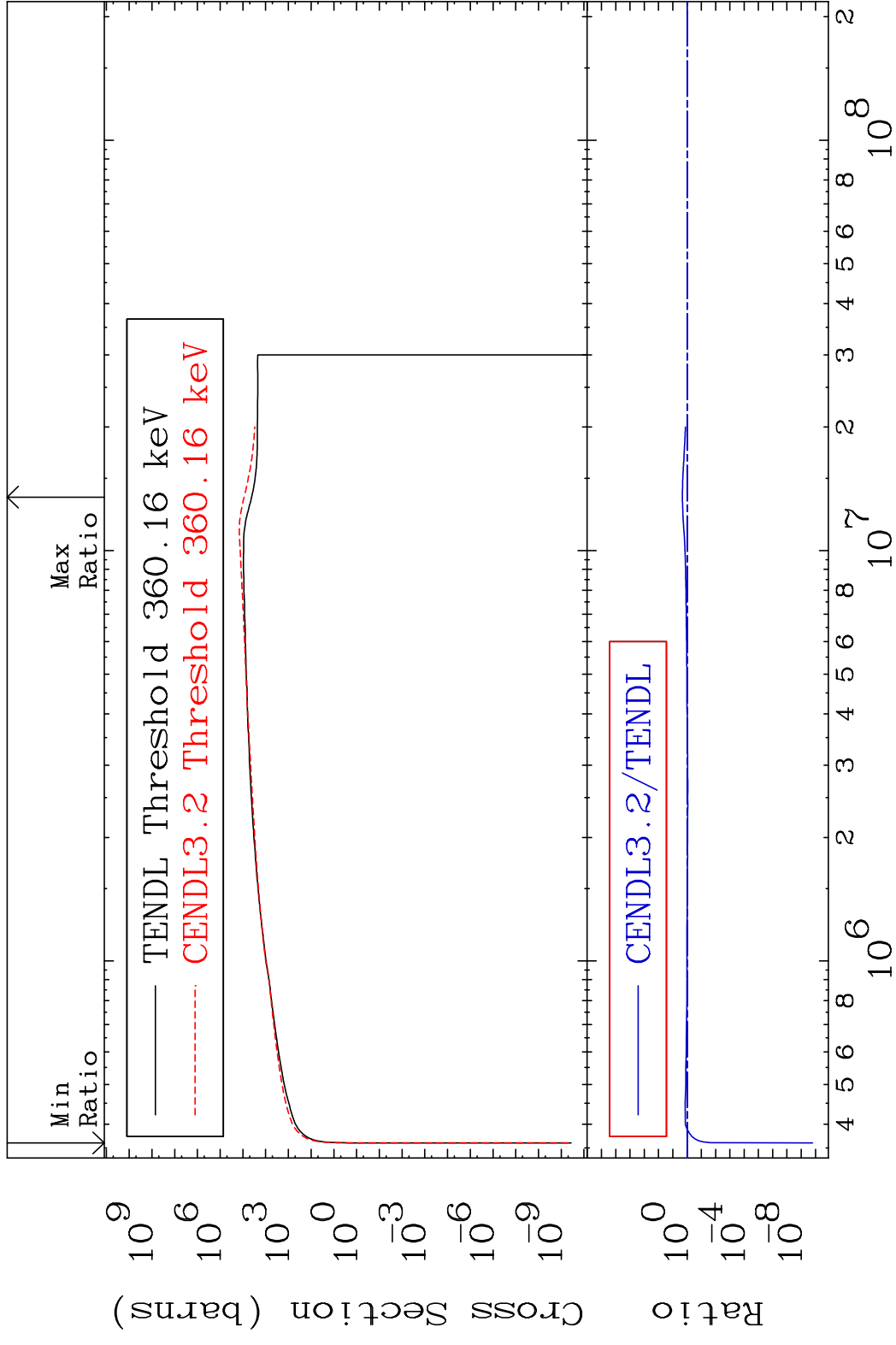
Incident Energy (eV)

56-Ba-130

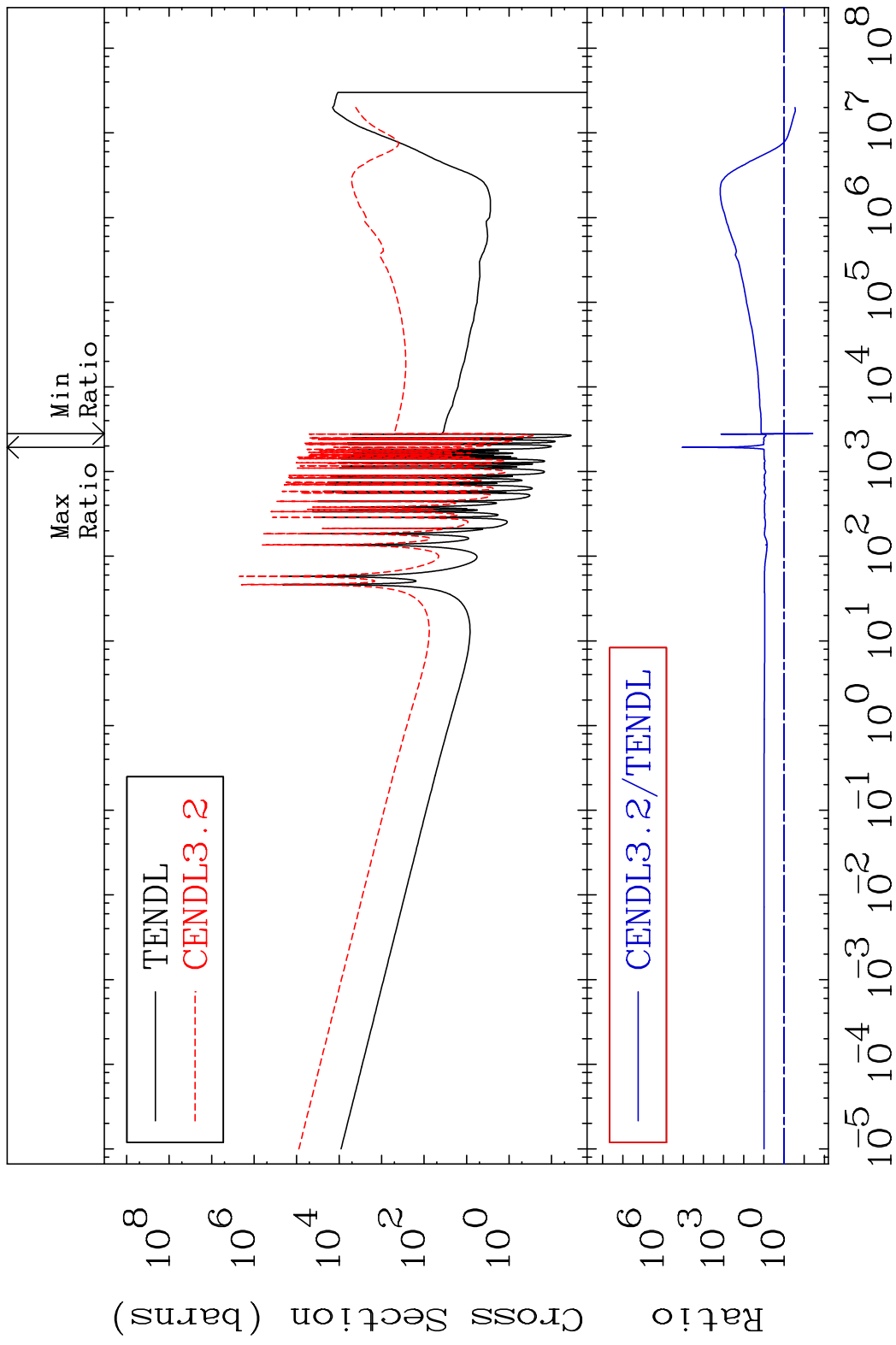
MAT 5625 Dpa elastic (mt2) 56-Ba-130
 Cross Section -99.92 To 9999. %



MAT 5625 Dpa inelastic (mt51-91) 56-Ba-130
 Cross Section -100.0 To 114.7 %

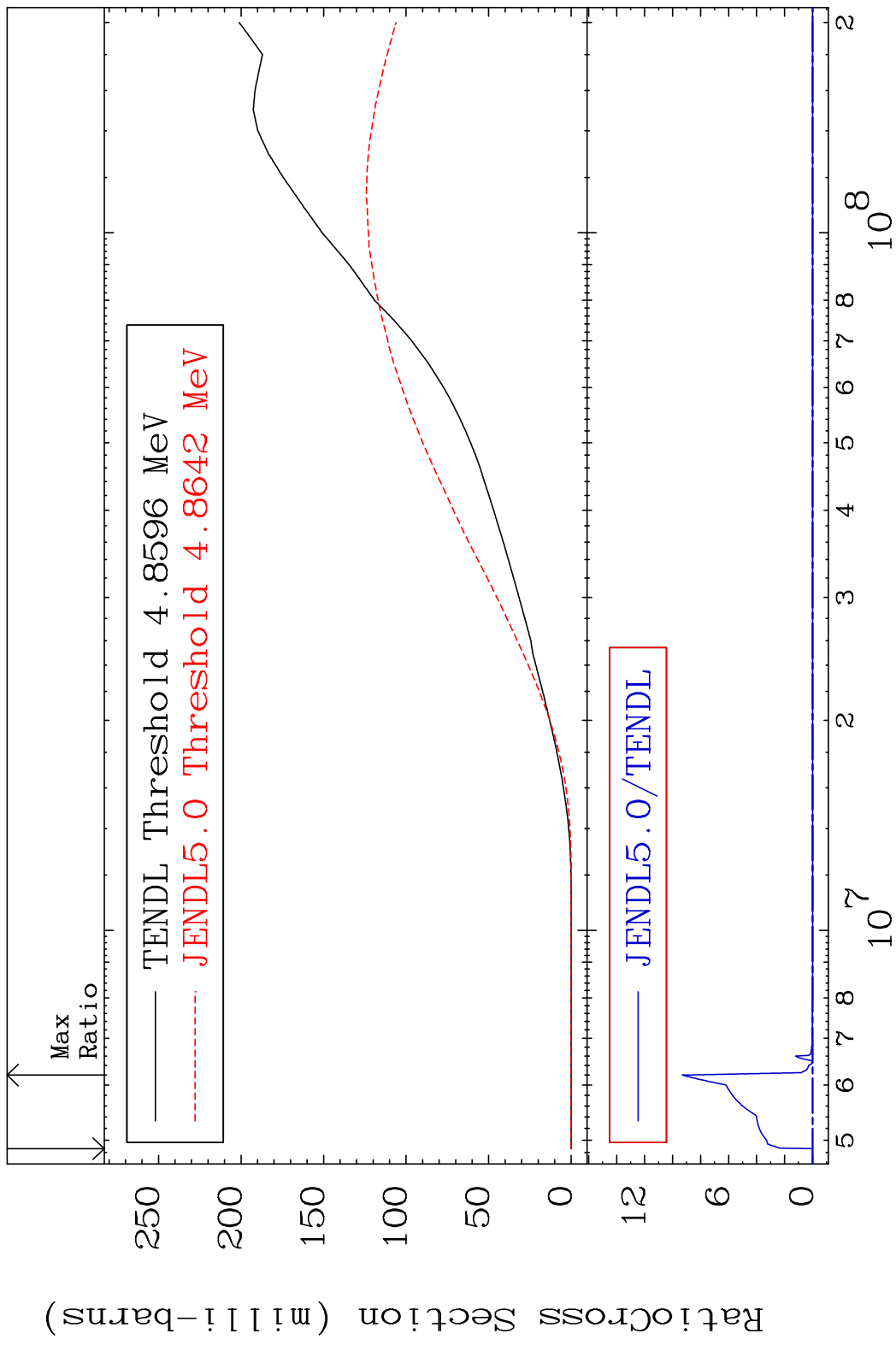


MAT 5625 Dpa disappearance (mt102 -120) 56-Ba-130
 Cross Section -96.14 To 9999. %

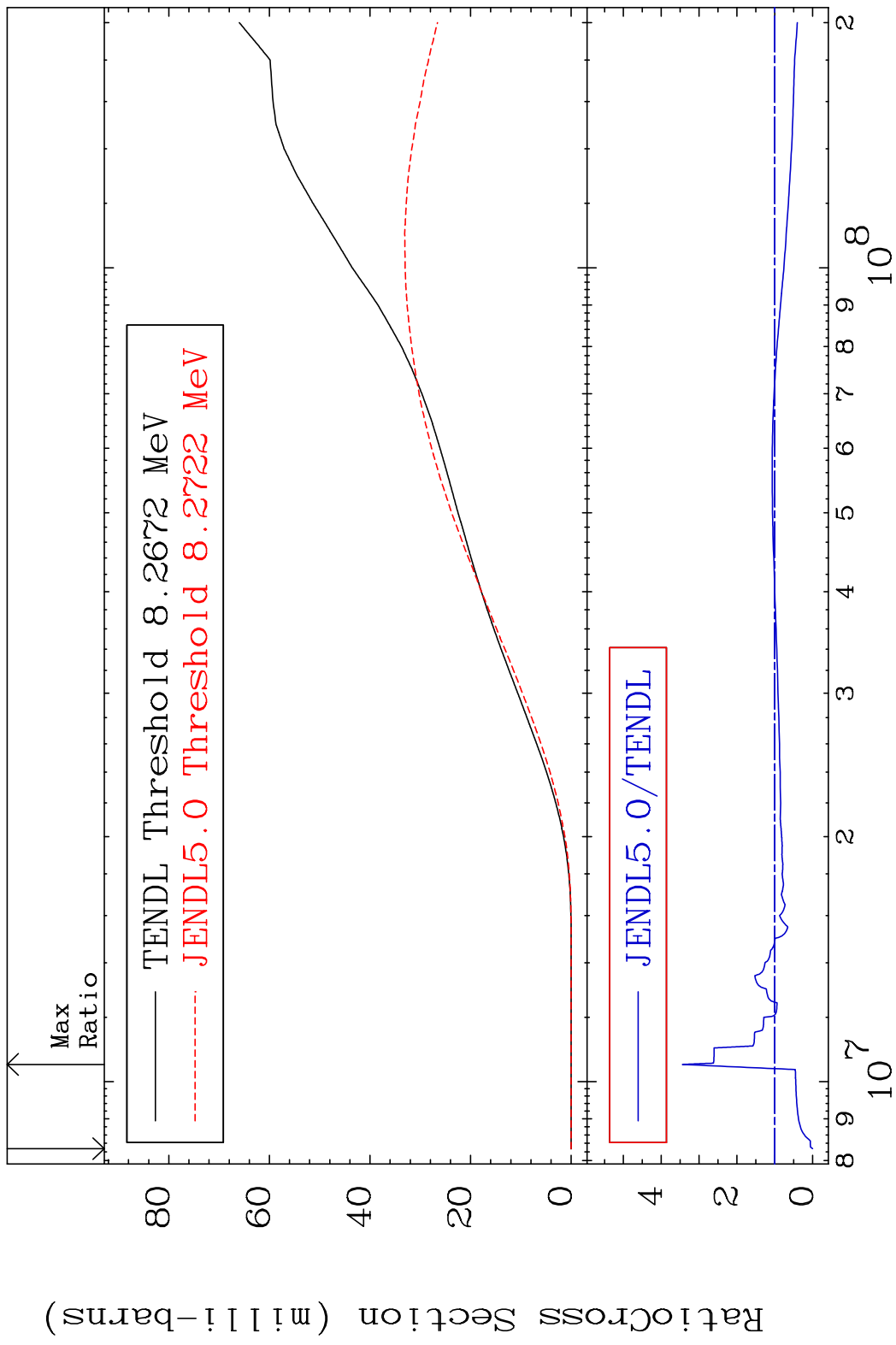


45 Incident Energy (eV) 56-Ba-130

MAT 5625 Deuterium Production 56-Ba-130
 Cross Section -100.0 To 9999. %



MAT 5625 Tritium Production 56-Ba-130
 Cross Section -100.0 To 244.2 %

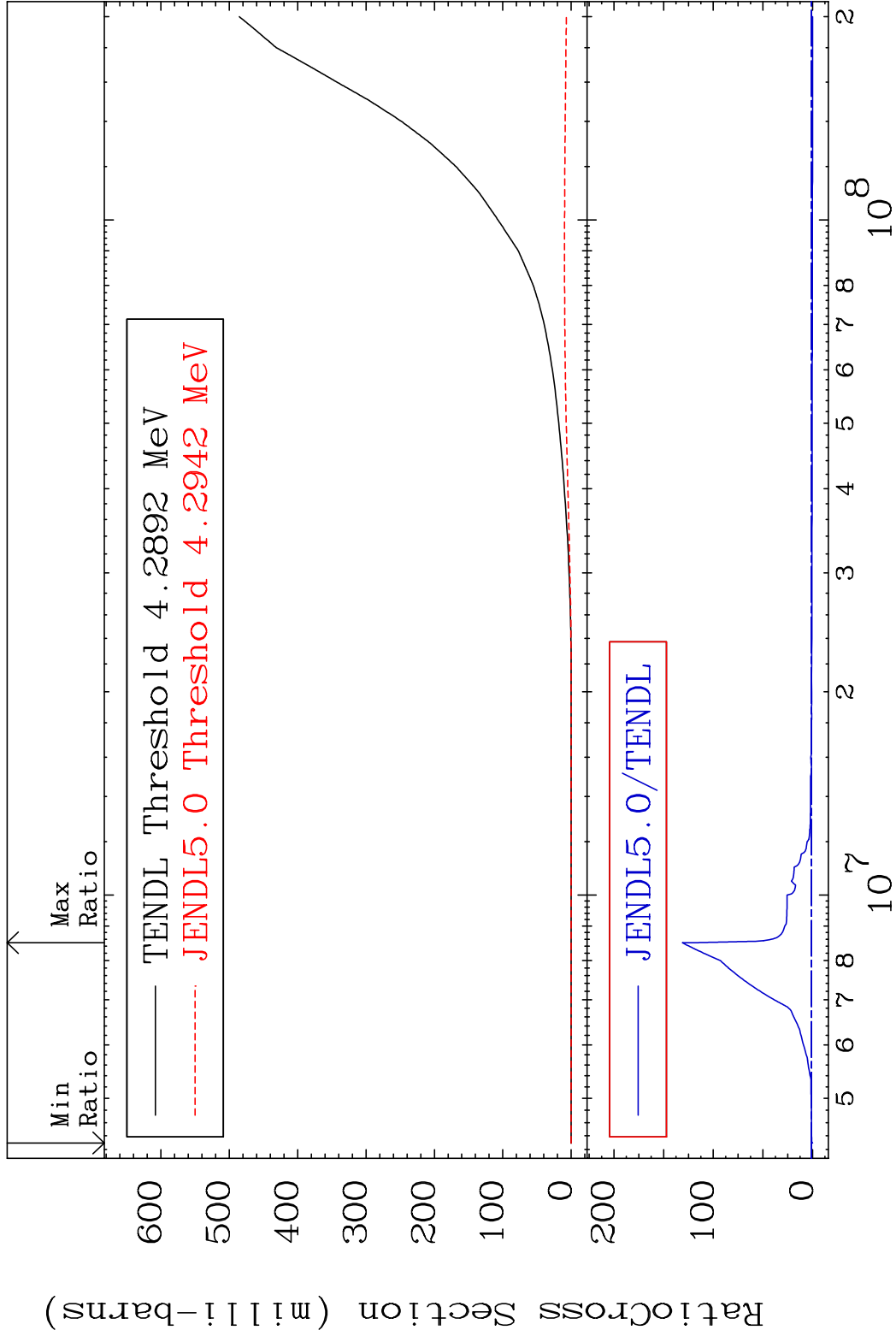


MAT 5625

He-3 Production

56-Ba-130

Cross Section -100.0 To 9999. %



48

Incident Energy (eV)

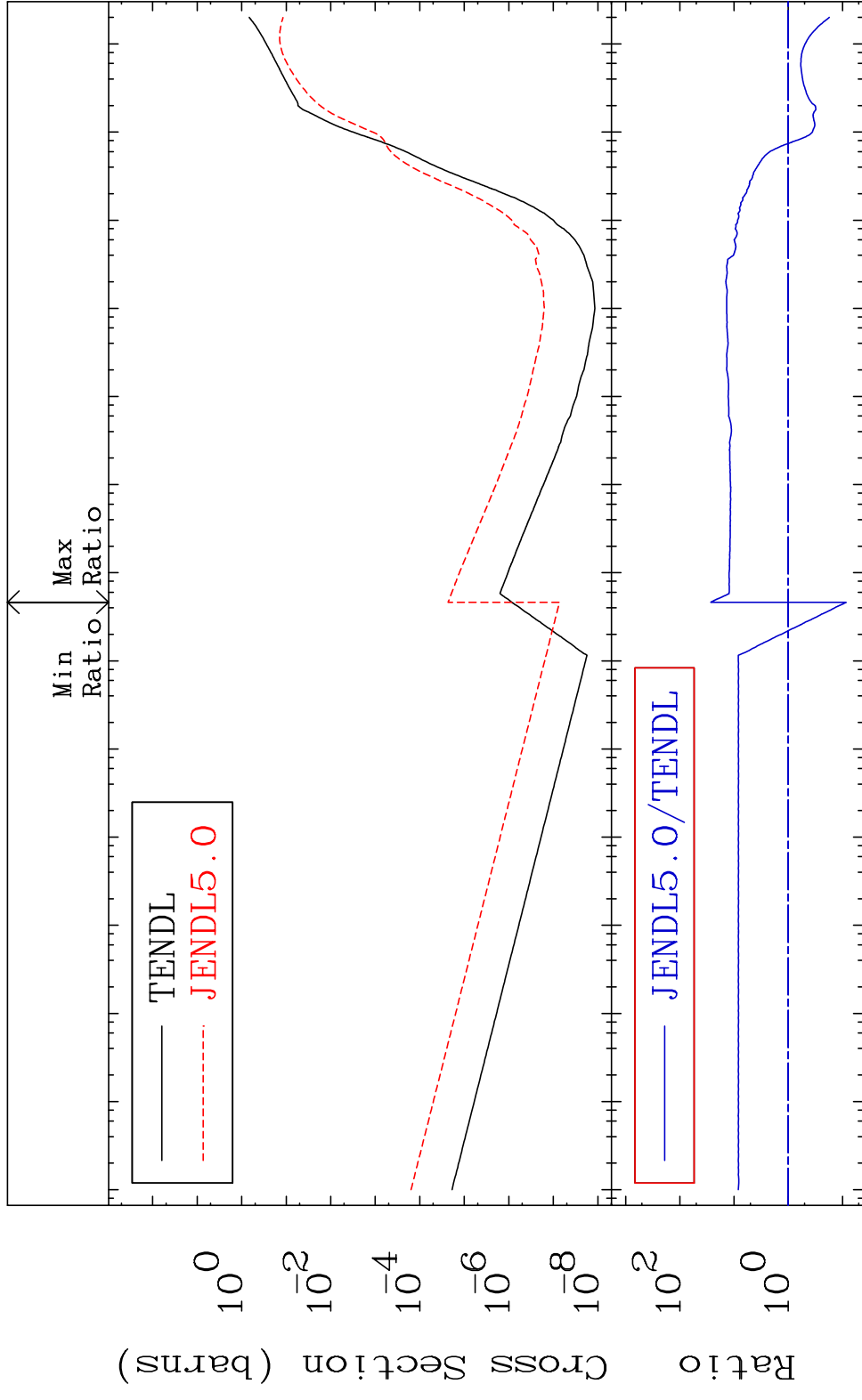
56-Ba-130

MAT 5625

He-4 Production

56-Ba-130

Cross Section -91.51 To 2594. %



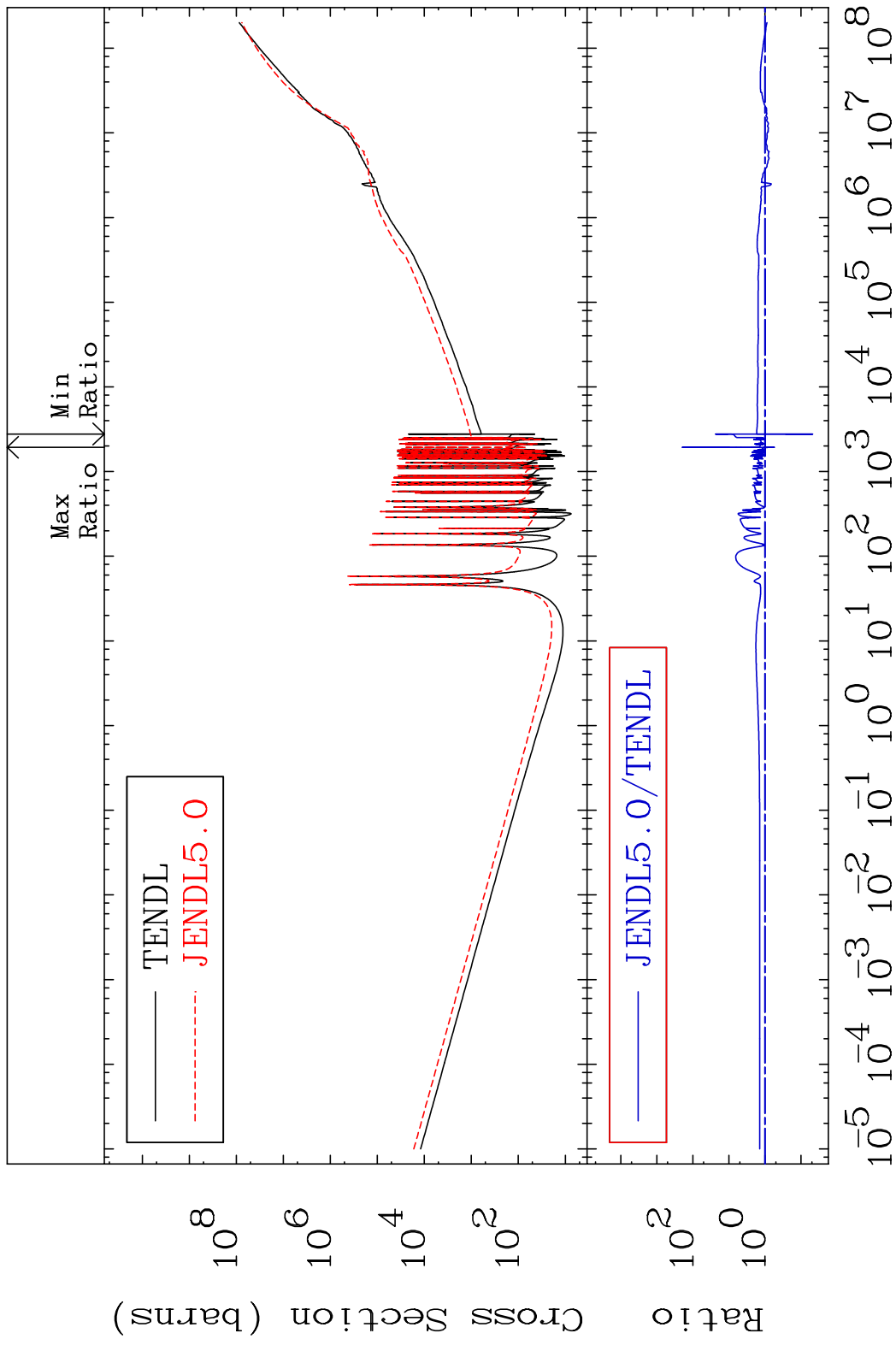
Ratio

49

Incident Energy (eV)

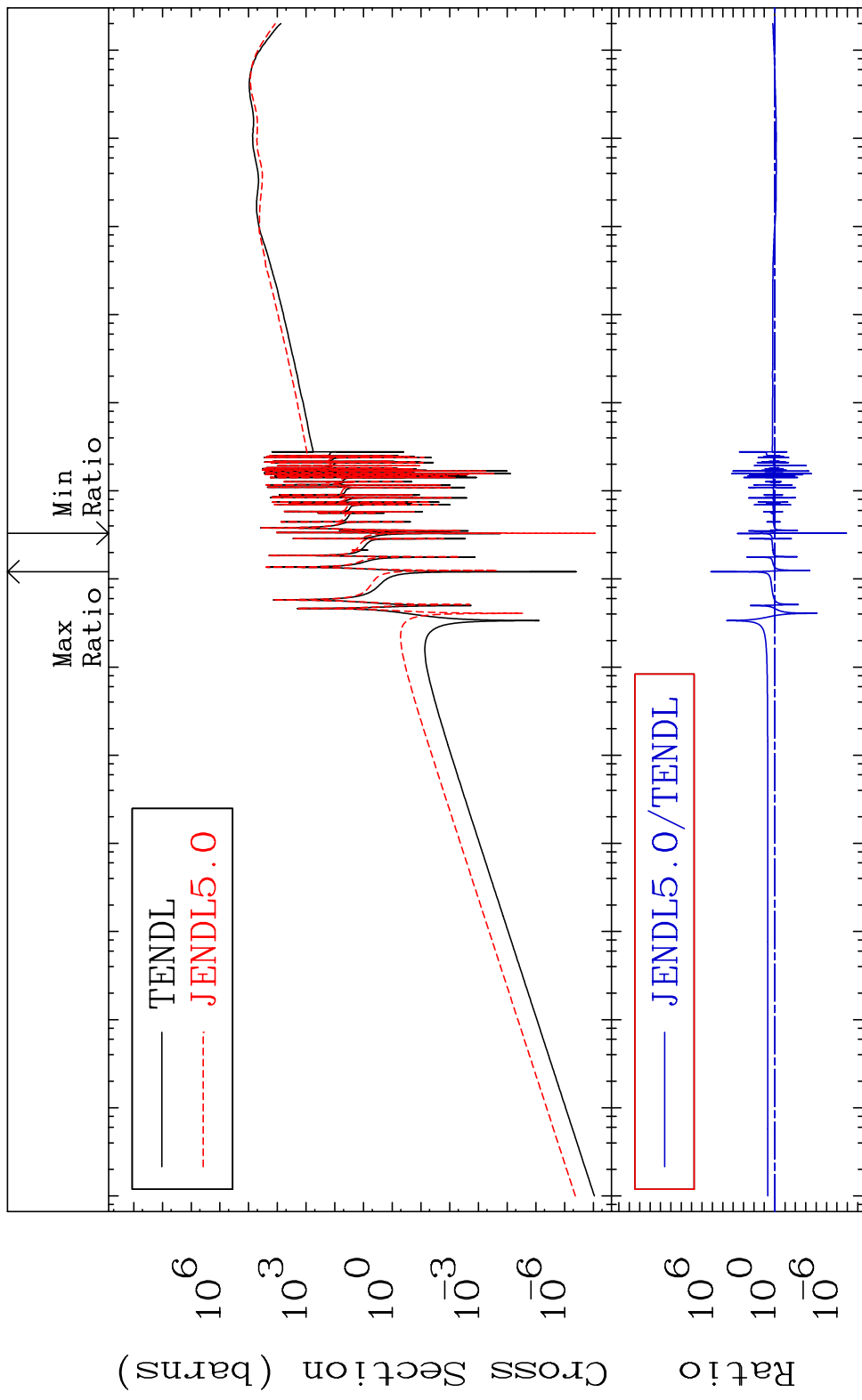
56-Ba-130

MAT 5625 Kerma total (eV-barns) 56-Ba-130
Cross Section -95.21 To 9999. %



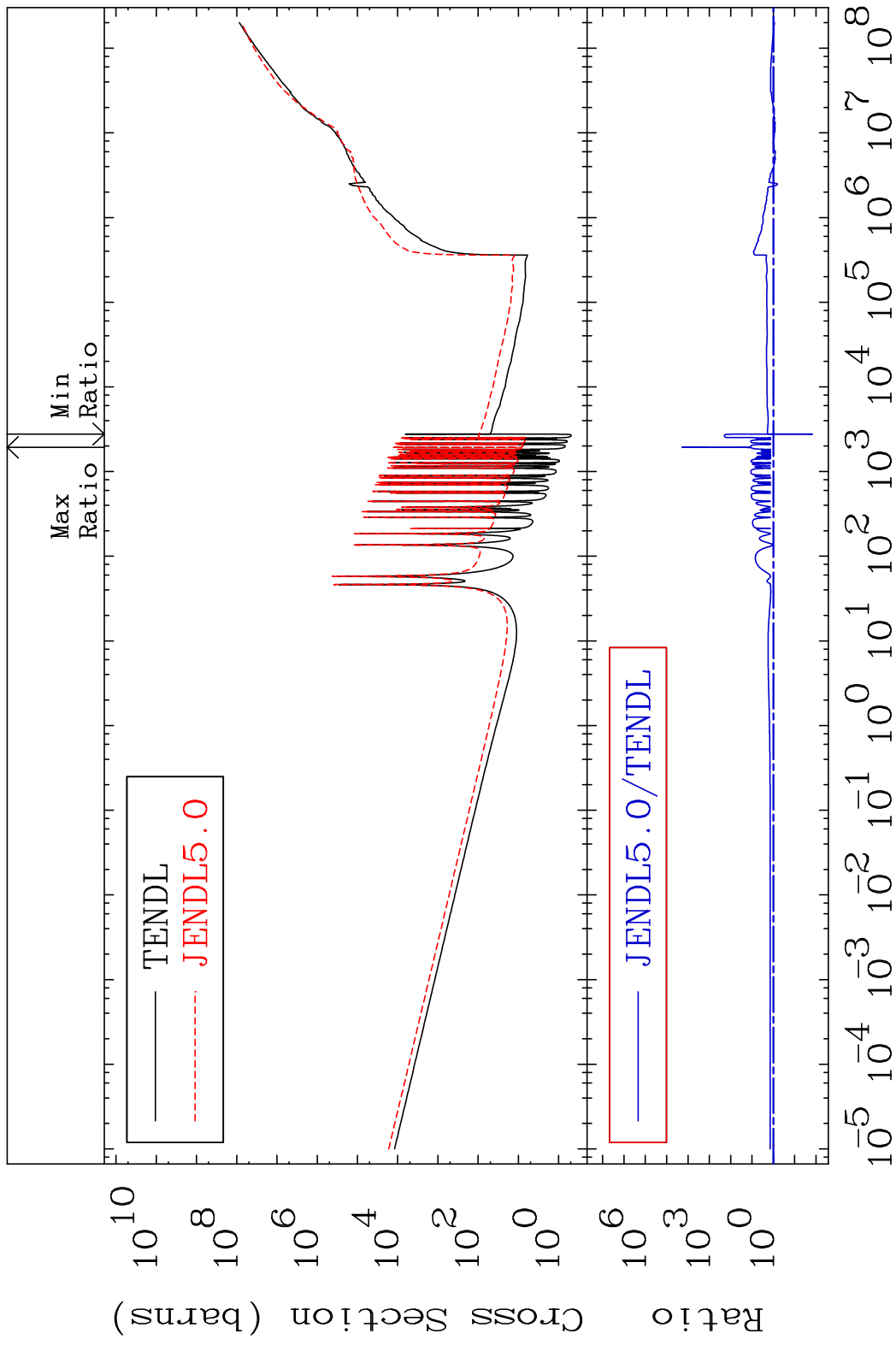
50 Incident Energy (eV) 56-Ba-130

MAT 5625 Kerma elastic 56-Ba-130
 Cross Section -100.0 To 9999. %

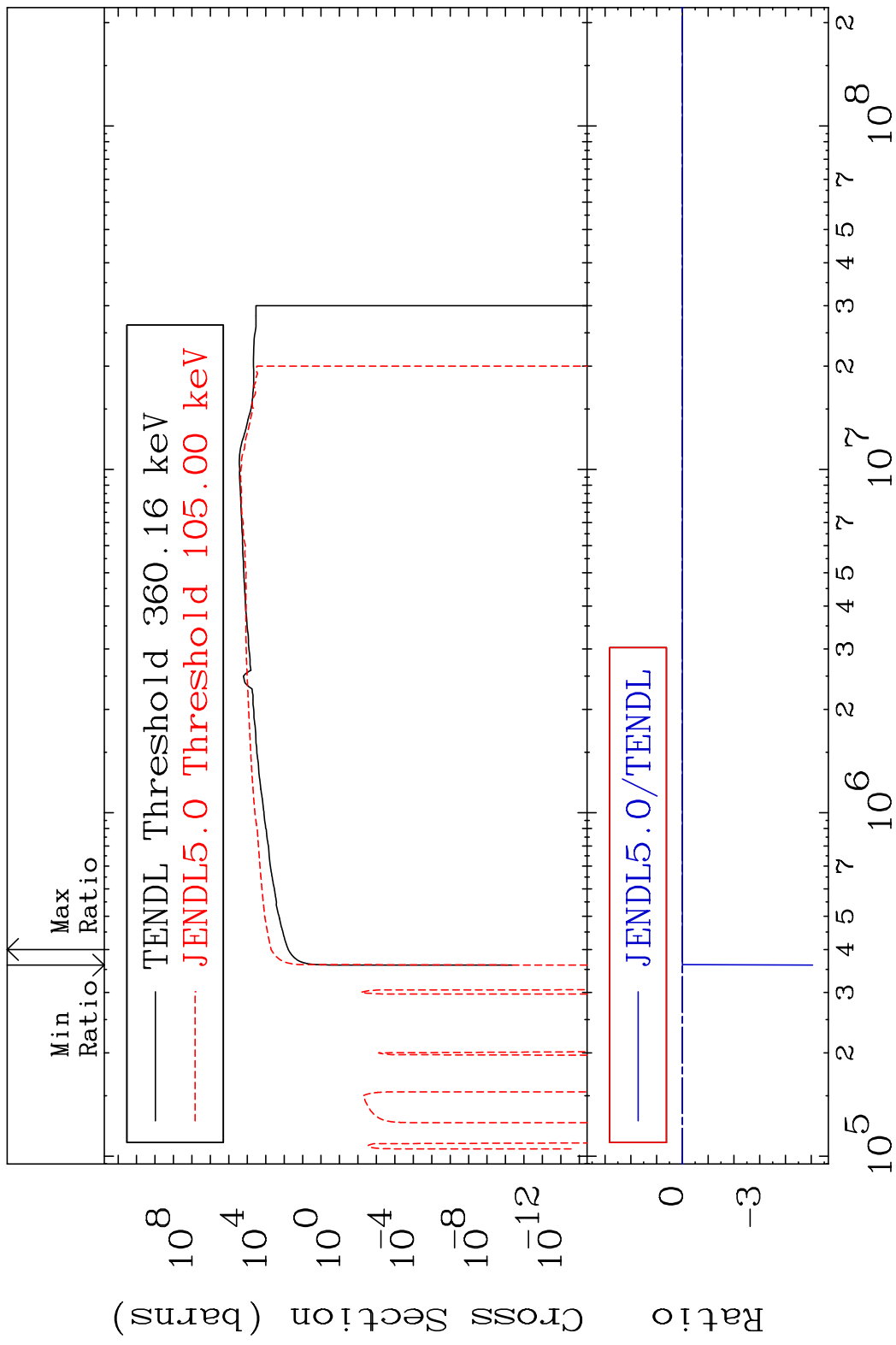


51 Incident Energy (eV) 56-Ba-130

MAT 5625 Kerma non-elastic (all but mt2) 56-Ba-130
 Cross Section -98.55 To 9999. %

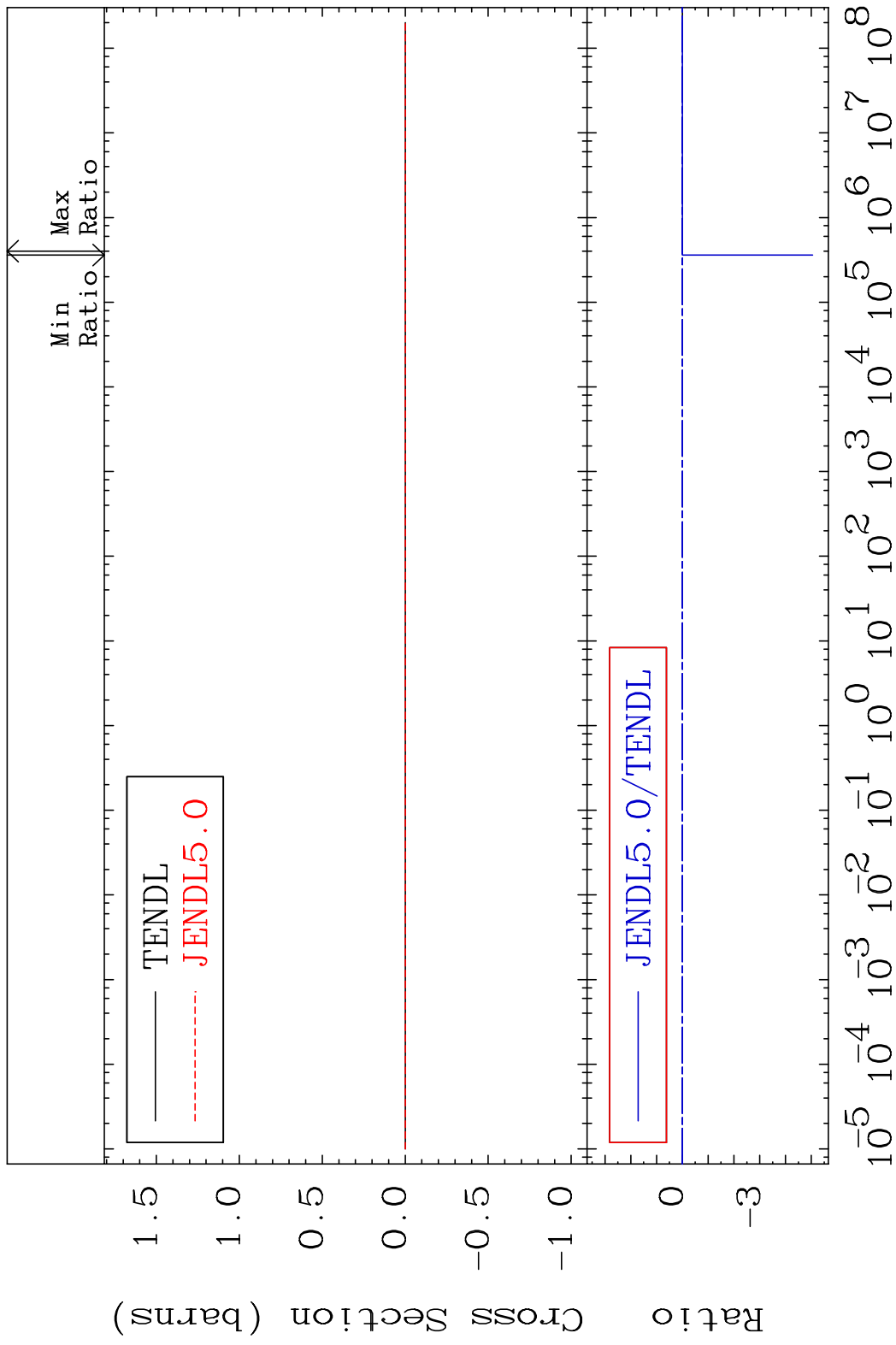


MAT 5625 Kerma inelastic (mt51-91) 56-Ba-130
 Cross Section -9999. To 746.5 %

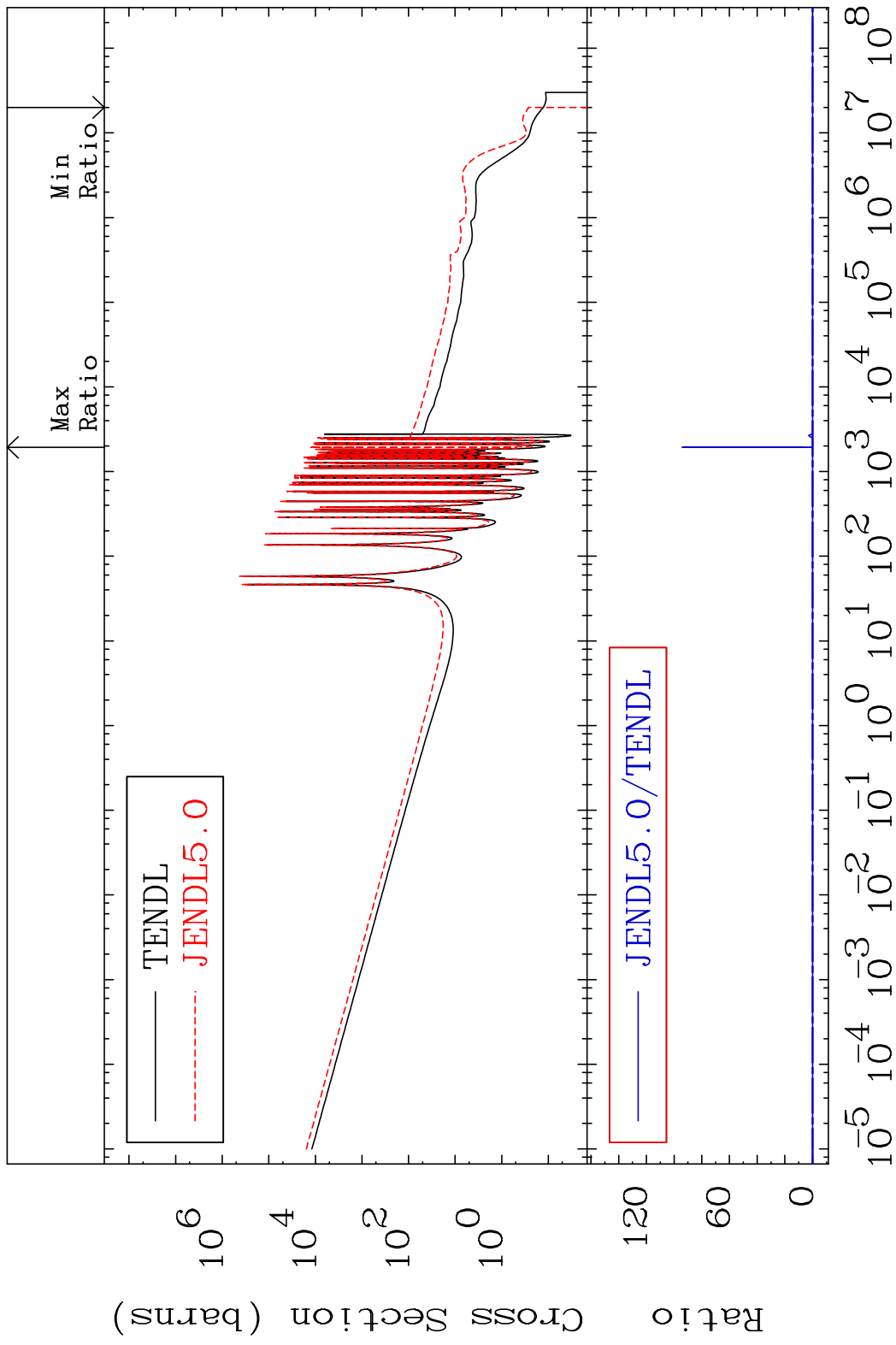


53 Incident Energy (eV) 56-Ba-130

MAT 5625 Kerma fission (mt18 or mt19-20-21-38) 56-Ba-130
 Cross Section -9999. To 746.5 %

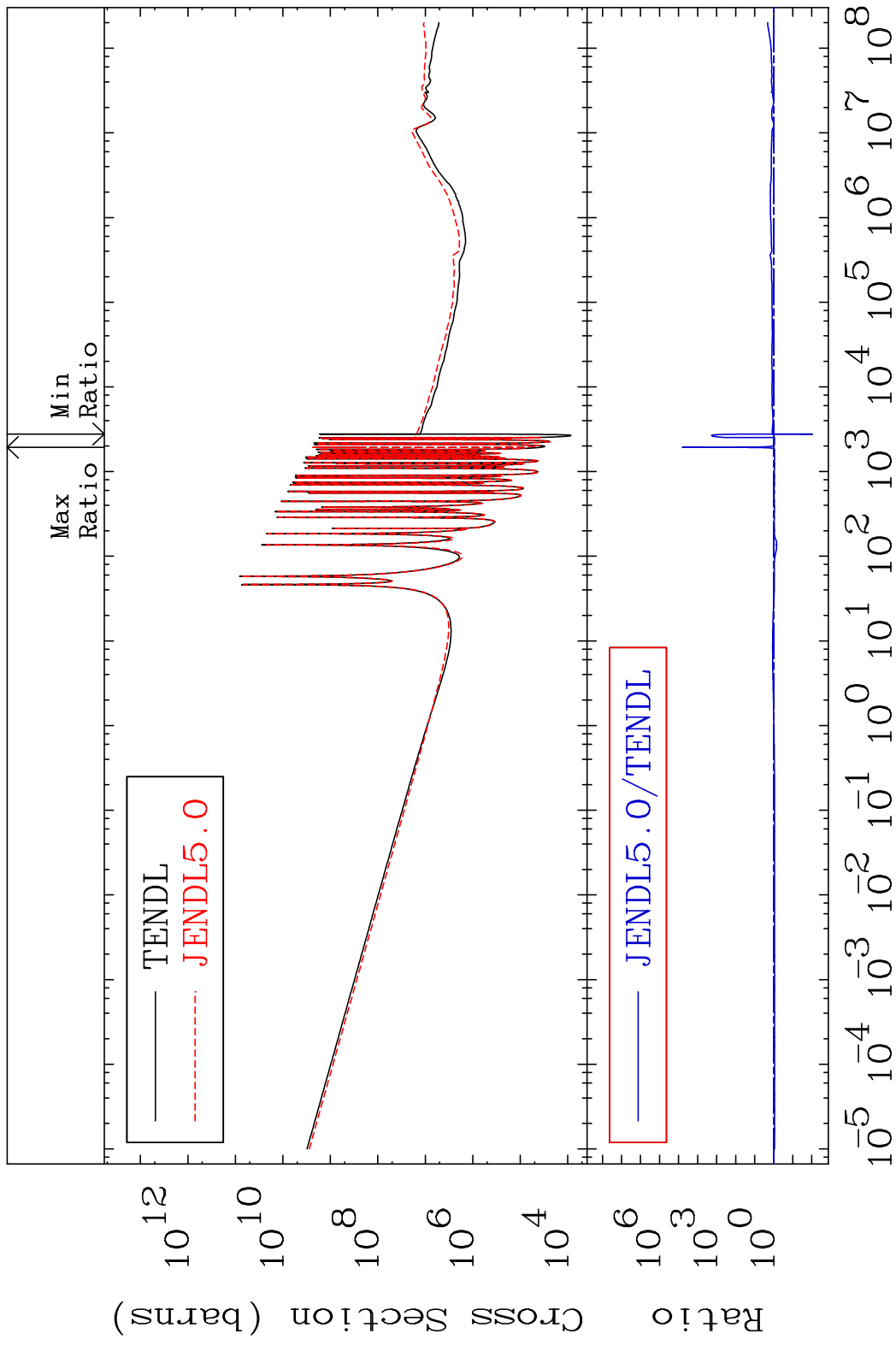


MAT 5625 Kerma capture (mt102) 56-Ba-130
 Cross Section -100.0 To 9999. %

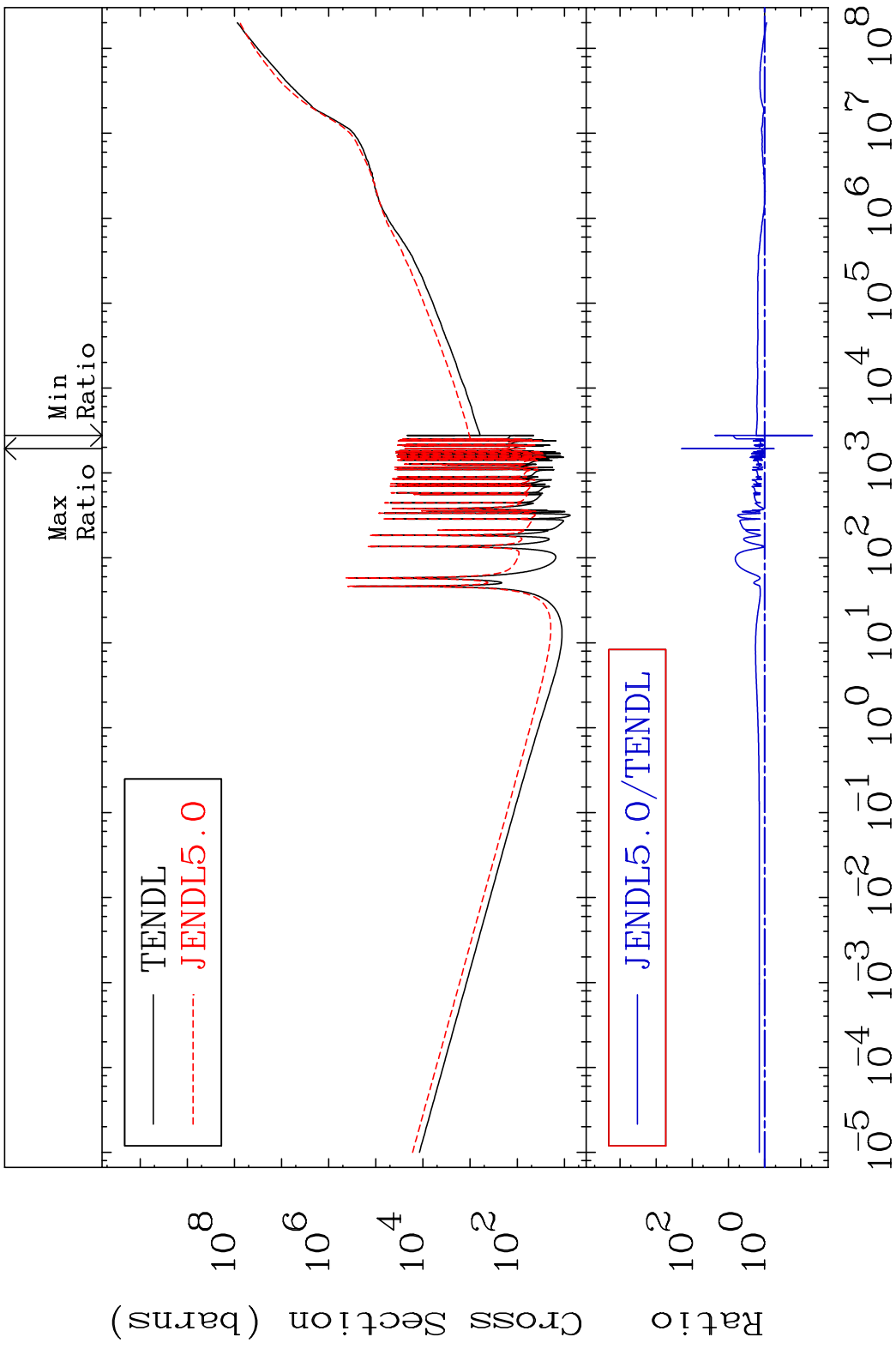


55 Incident Energy (eV) 56-Ba-130

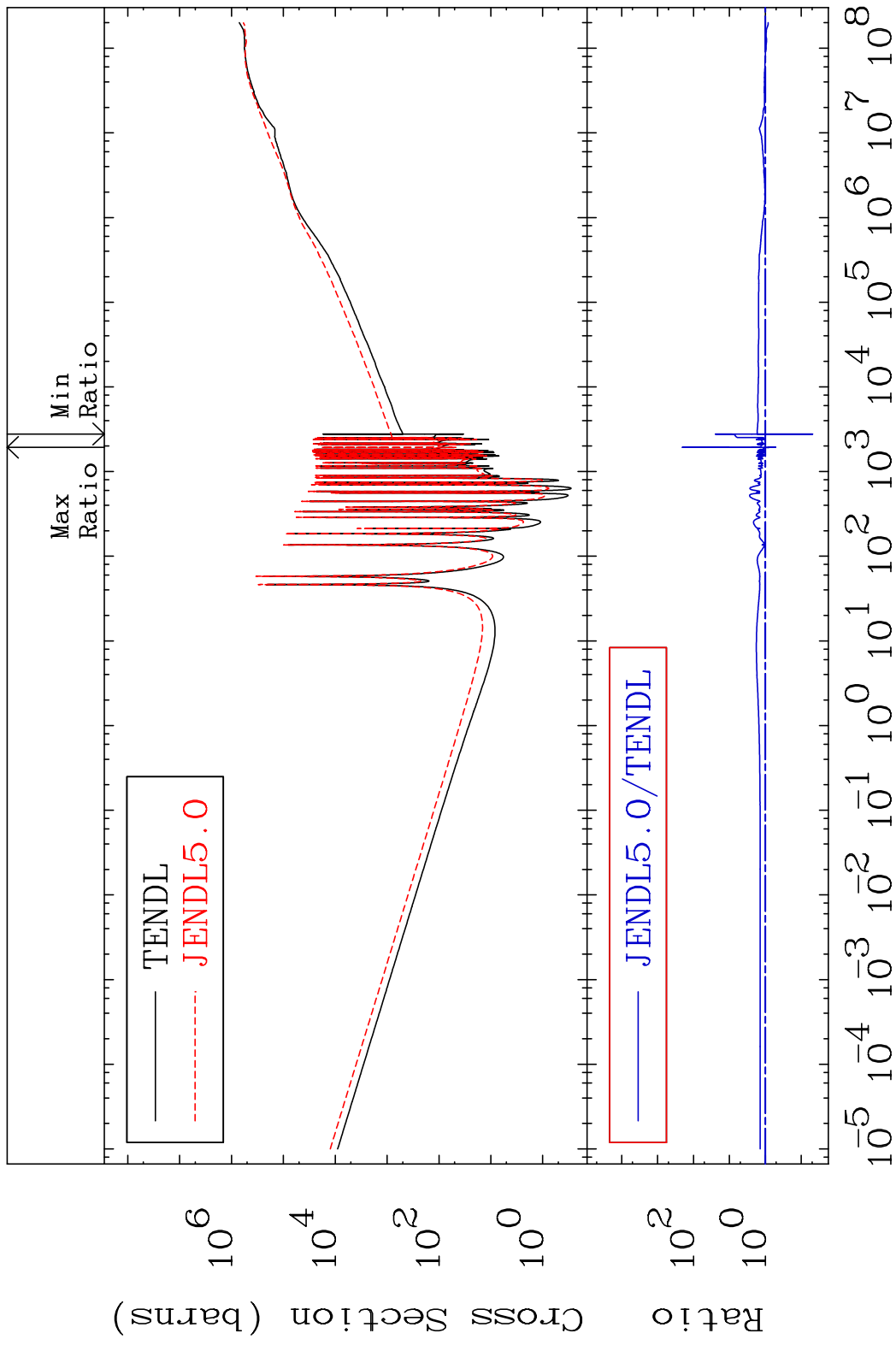
MAT 5625 Total photon (eV-barns) 56-Ba-130
 Cross Section -99.09 To 9999. %



MAT 5625 Total kinematic kerma (high limit) 56-Ba-130
Cross Section -95.21 To 9999. %



MAT 5625 Dpa total (eV-barns) 56-Ba-130
 Cross Section -95.14 To 9999. %

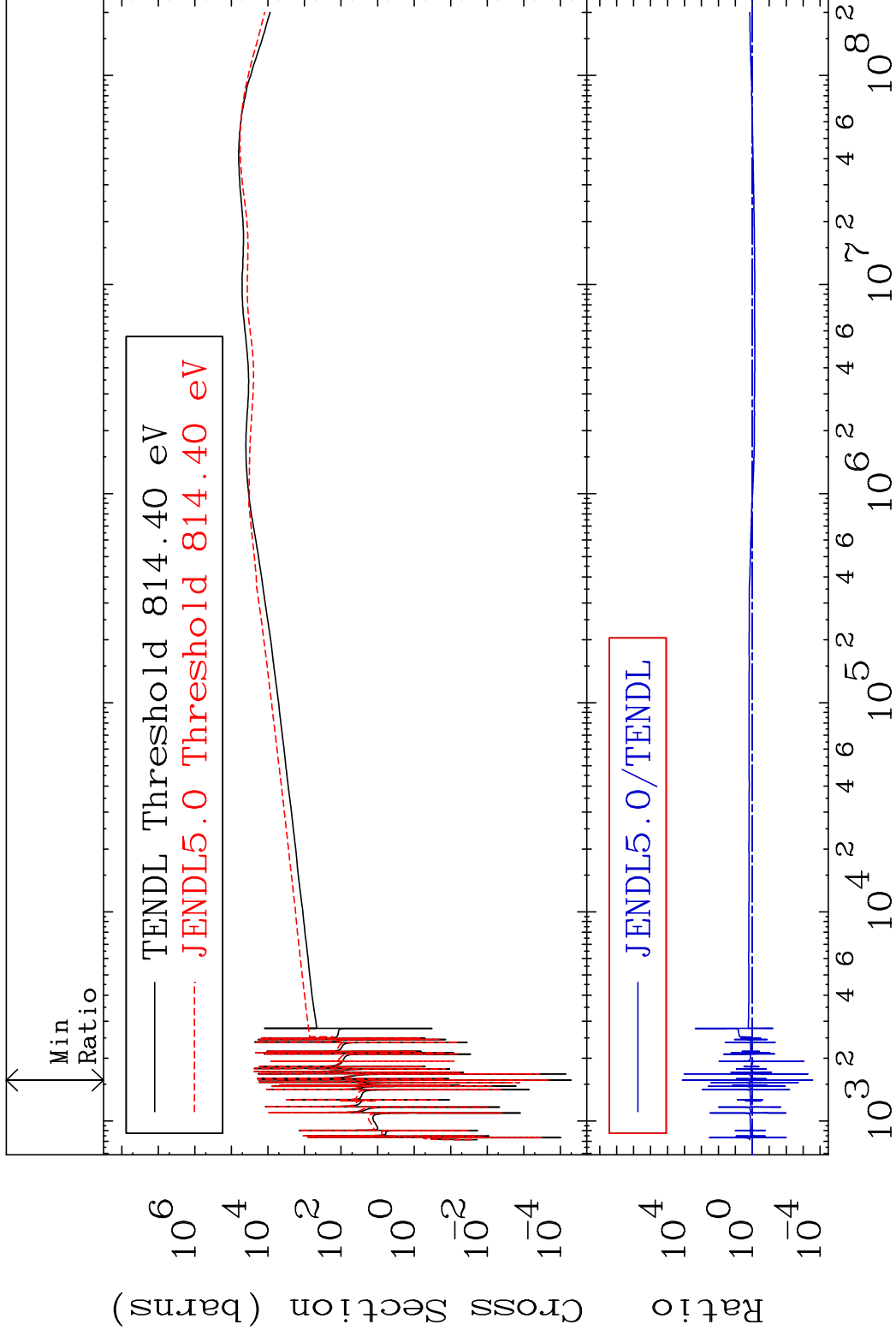


MAT 5625

Dpa elastic (mt2)

56-Ba-130

Cross Section -99.97 To 9999. %

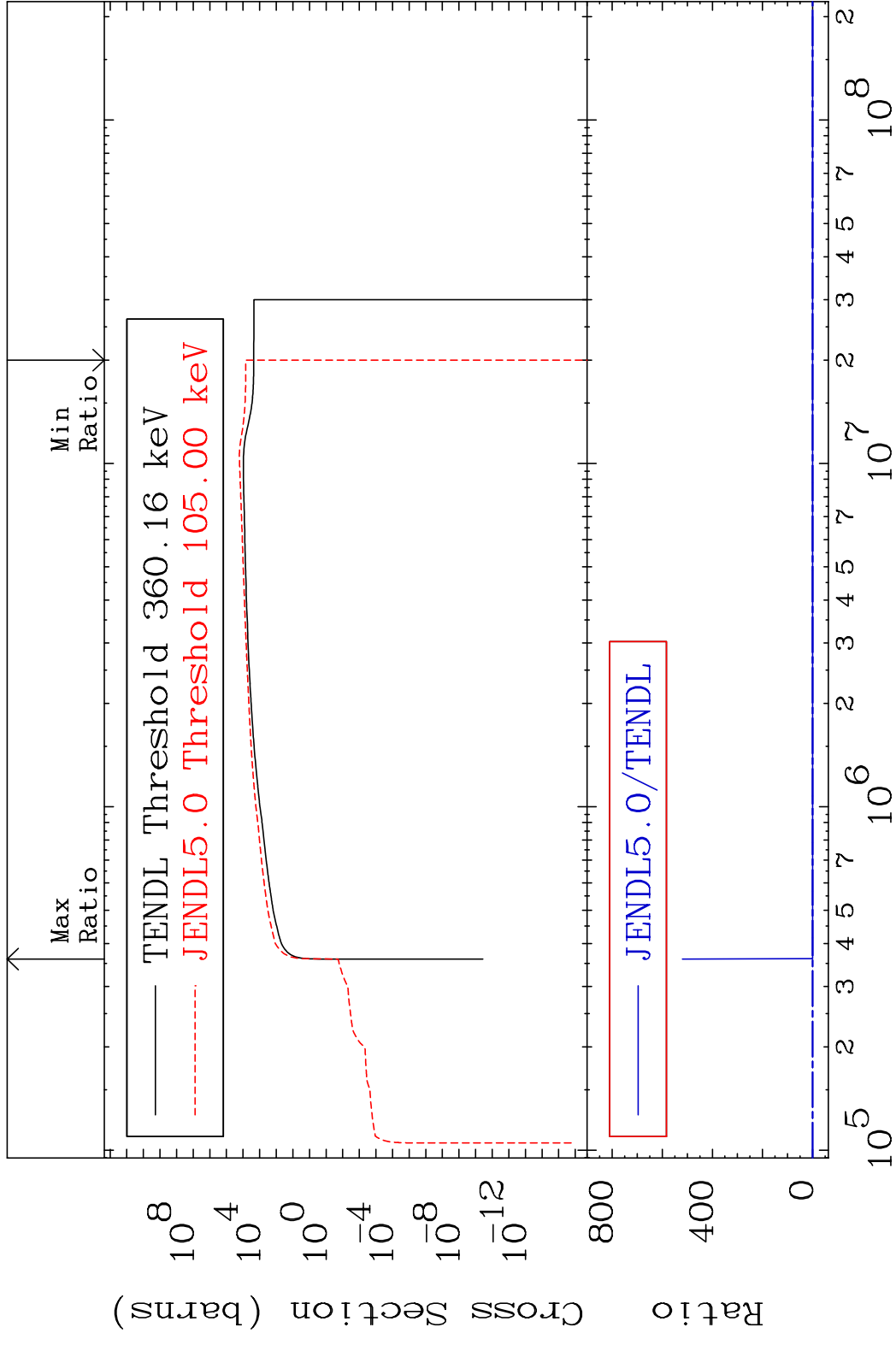


59

Incident Energy (eV)

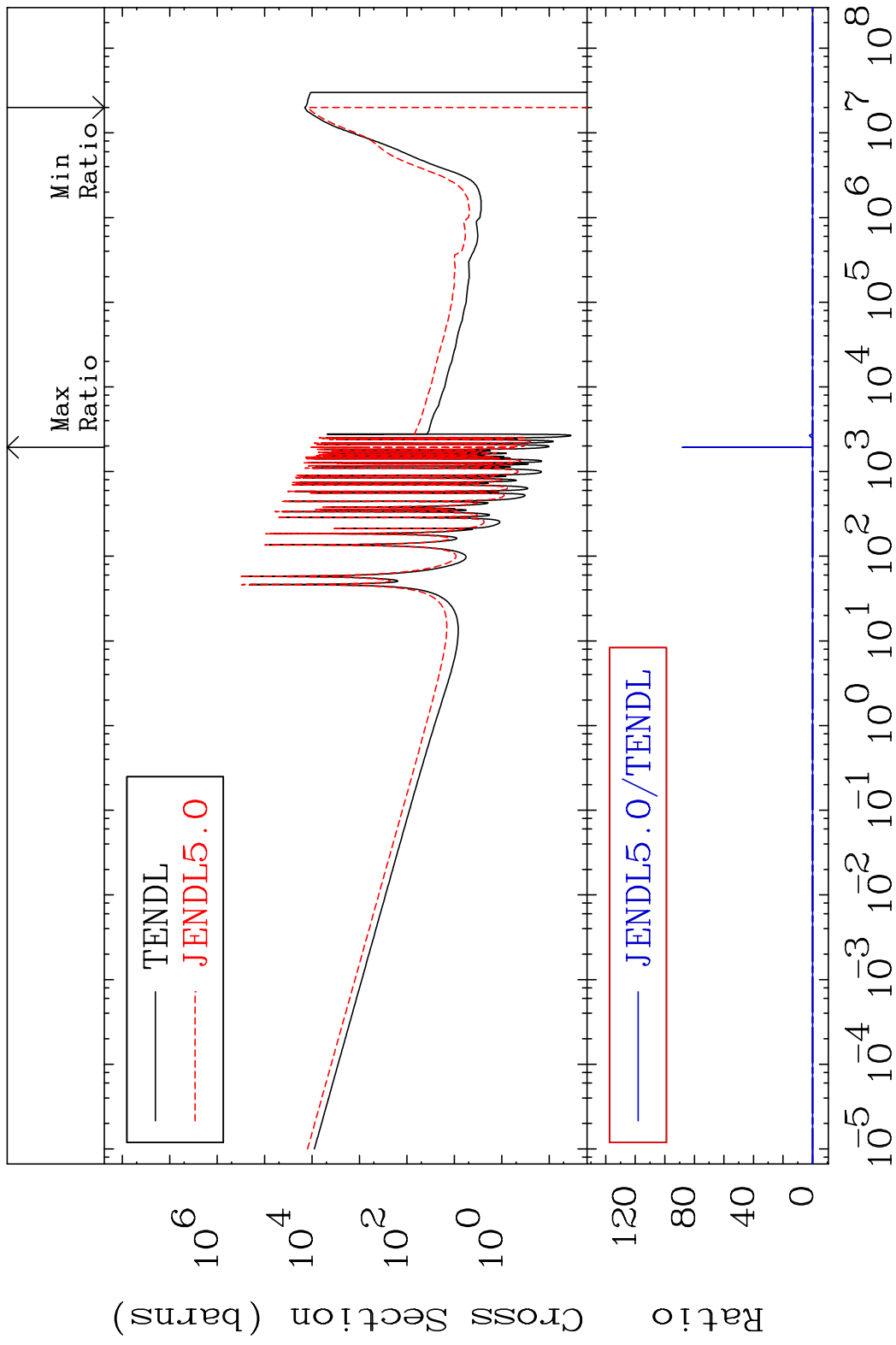
56-Ba-130

MAT 5625 Dpa inelastic (mt51-91) 56-Ba-130
 Cross Section -100.0 To 9999. %

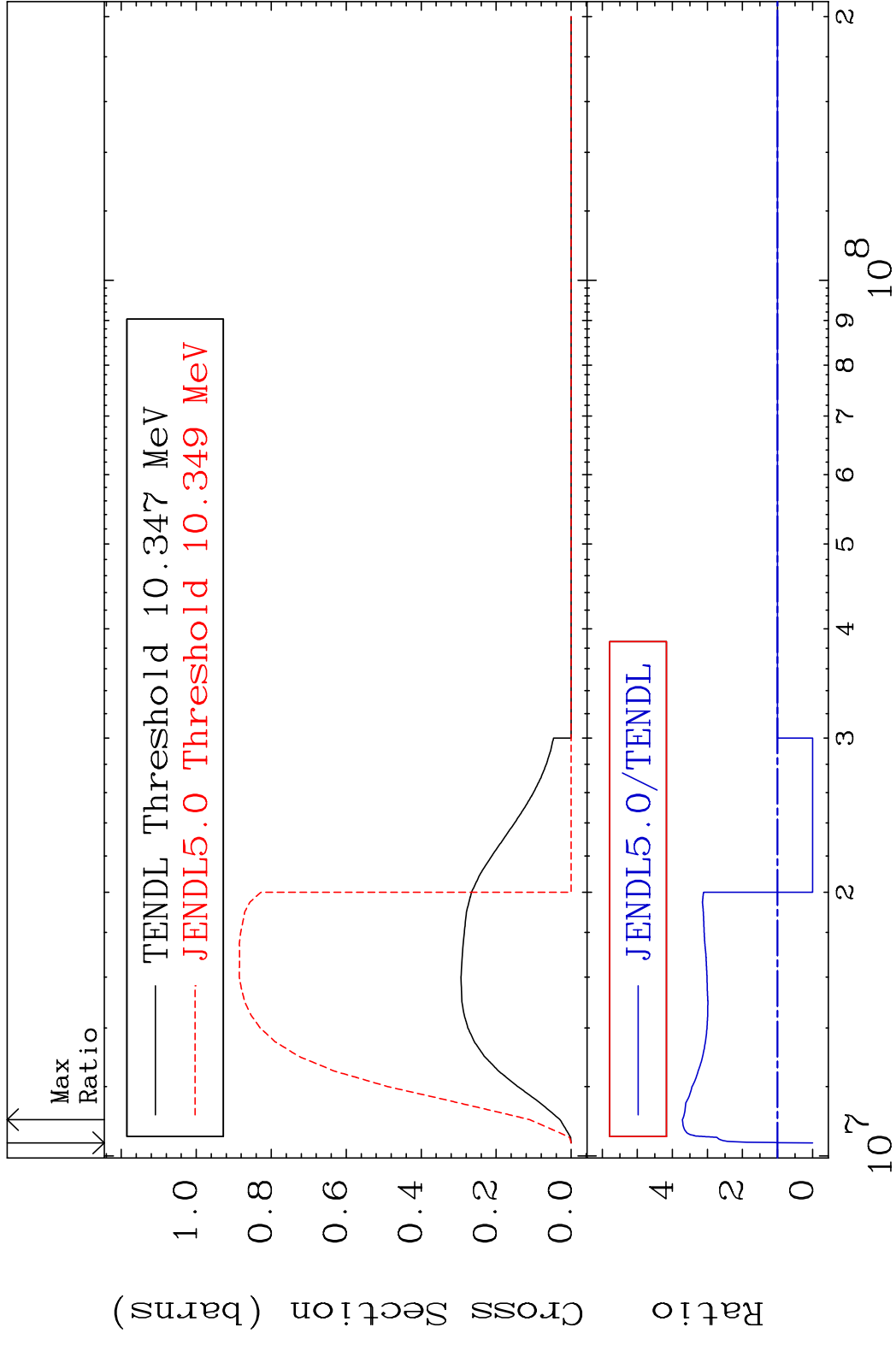


60 Incident Energy (eV) 56-Ba-130

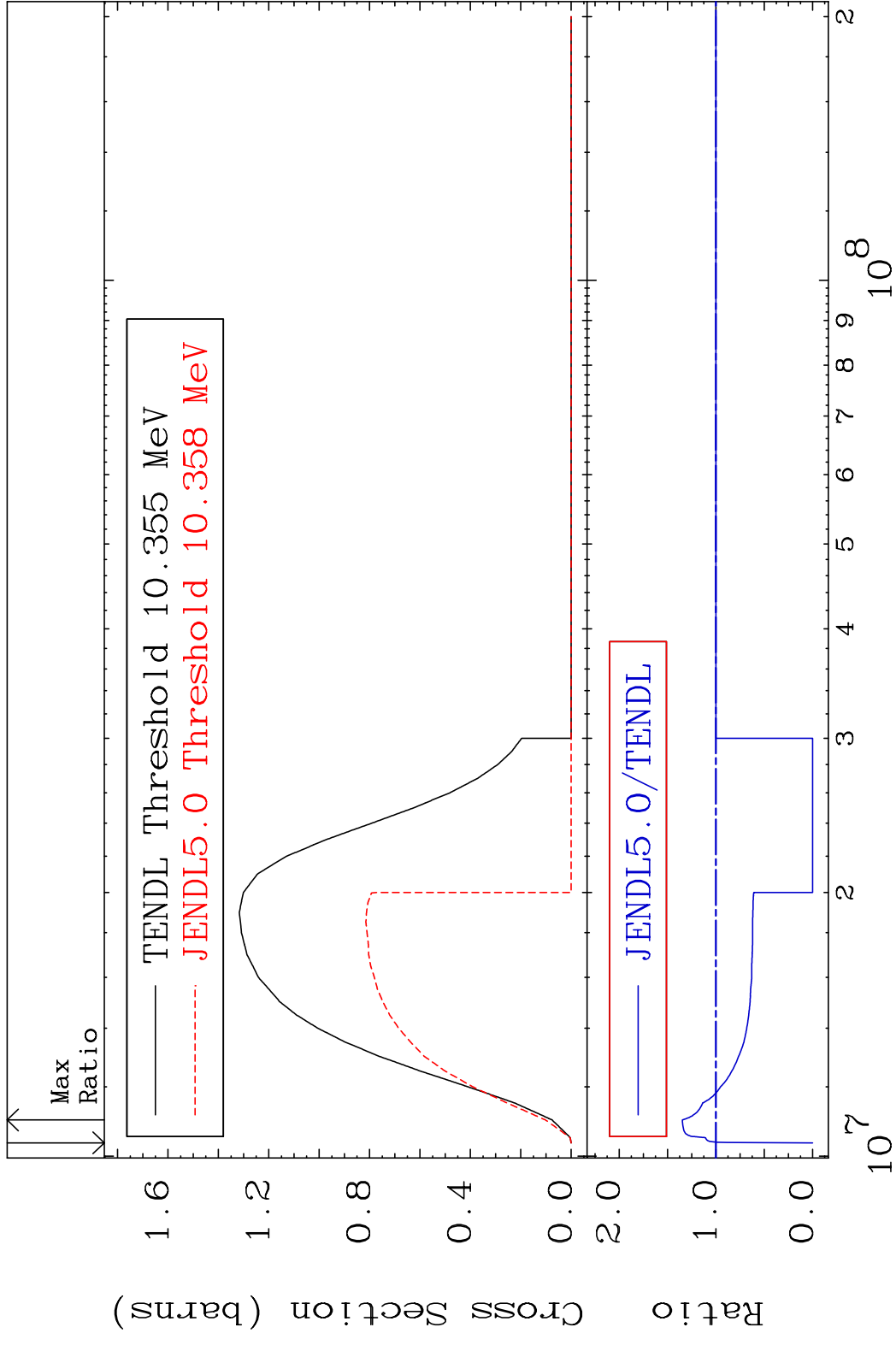
MAT 5625 Dpa disappearance (mt102 -120) 56-Ba-130
 Cross Section -100.0 To 9999. %



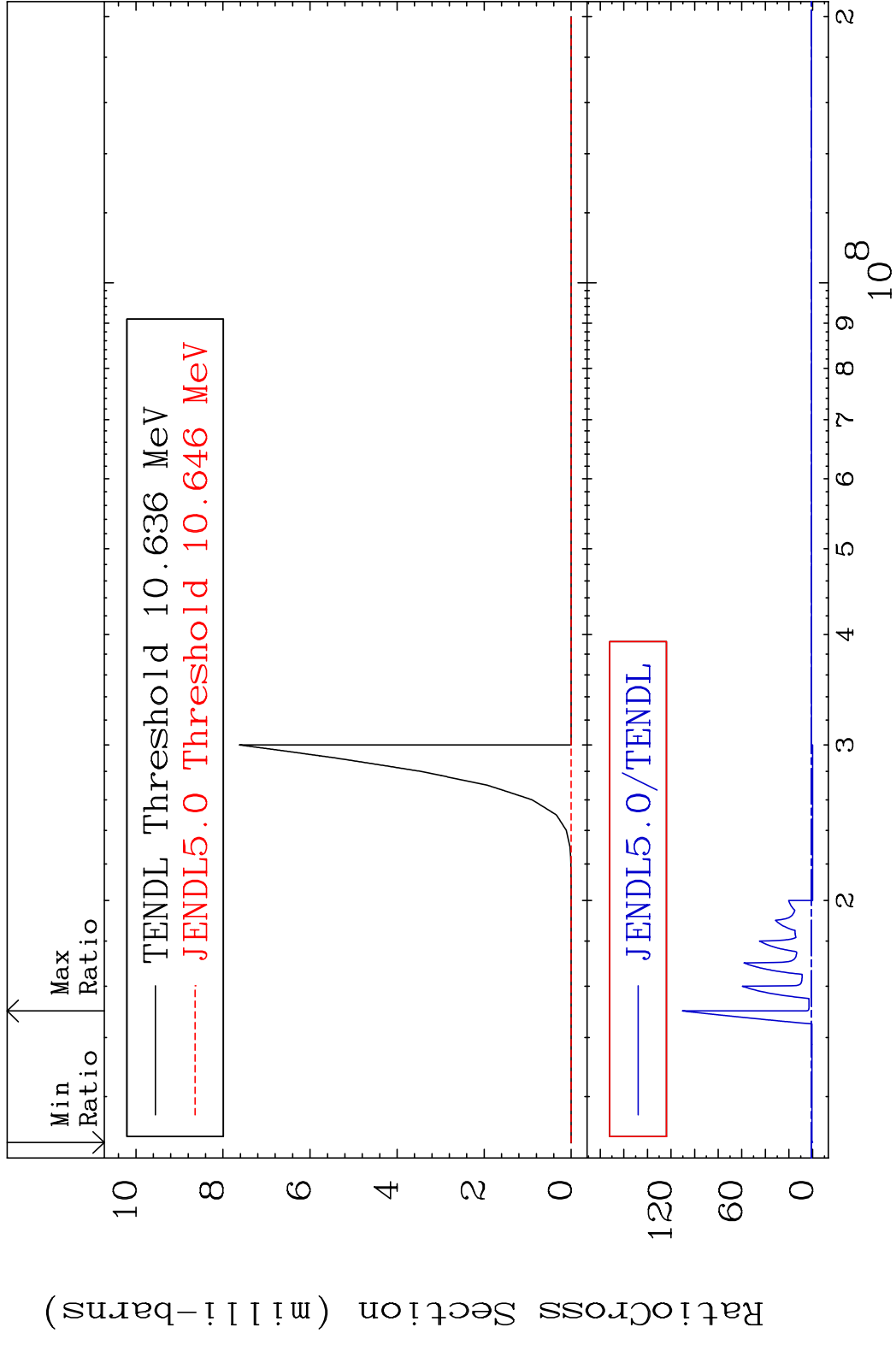
MAT 5625 (n,2n):56-Ba-129g 56-Ba-130
 Radionuclide Production Cross Section Ratio 271.5 %

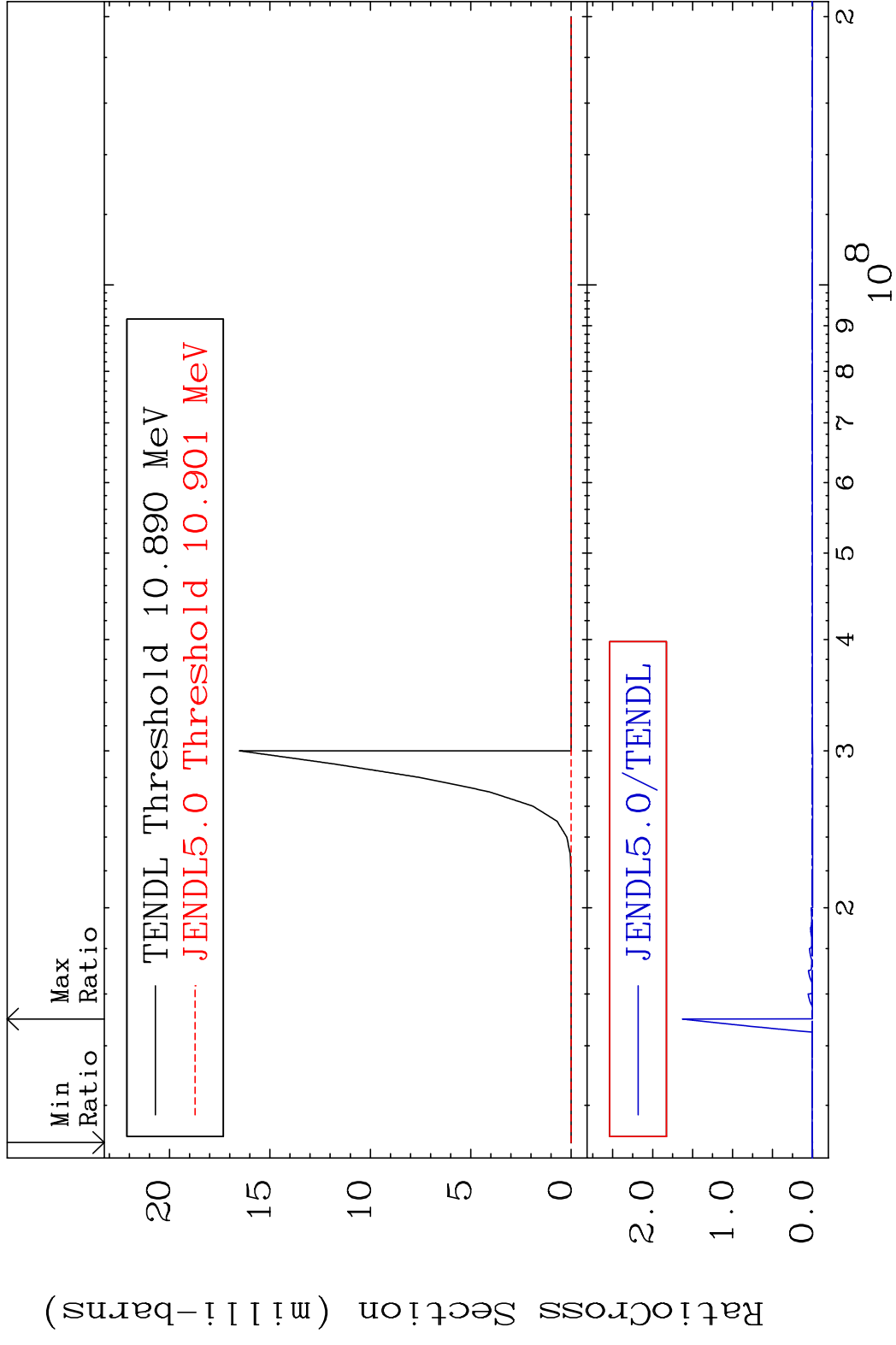


MAT 5625 (n, 2n):56-Ba-129m1 56-Ba-130
 Radionuclide Production Cross Section Ratio 34.73 %

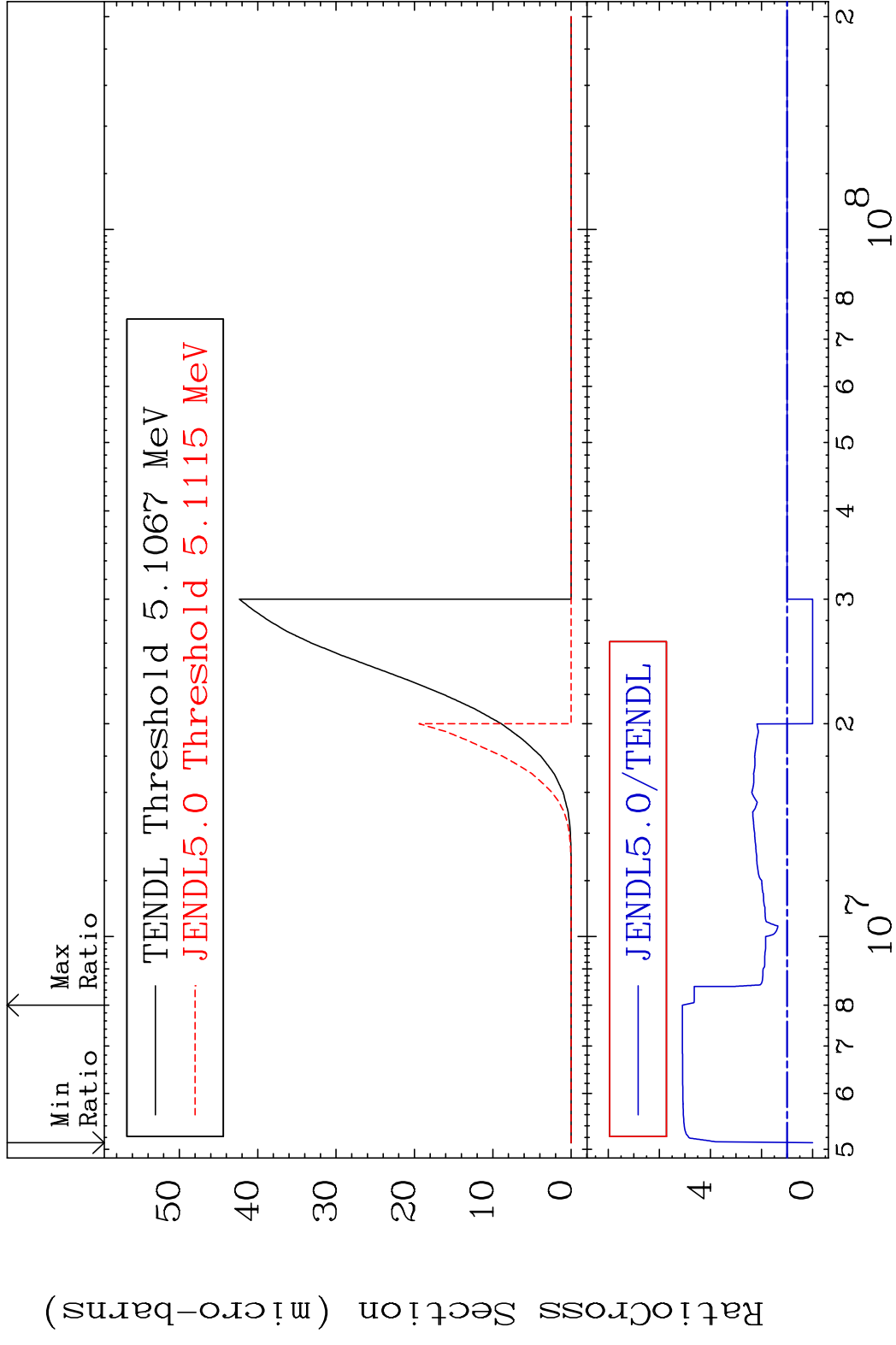


MAT 5625 (n,2n) α :54-Xe-125g 56-Ba-130
 Radionuclide Production Cross Section Ratio 9999. %





MAT 5625 (n,2p):54-Xe-129g 56-Ba-130
 Radionuclide Production Cross Section 180.0 mb 409.8 %



MAT 5625 (n, 2p) :54-Xe-129m2 56-Ba-130
 Radionuclide Production Cross Section 180.0 dth 319.3 %

