

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

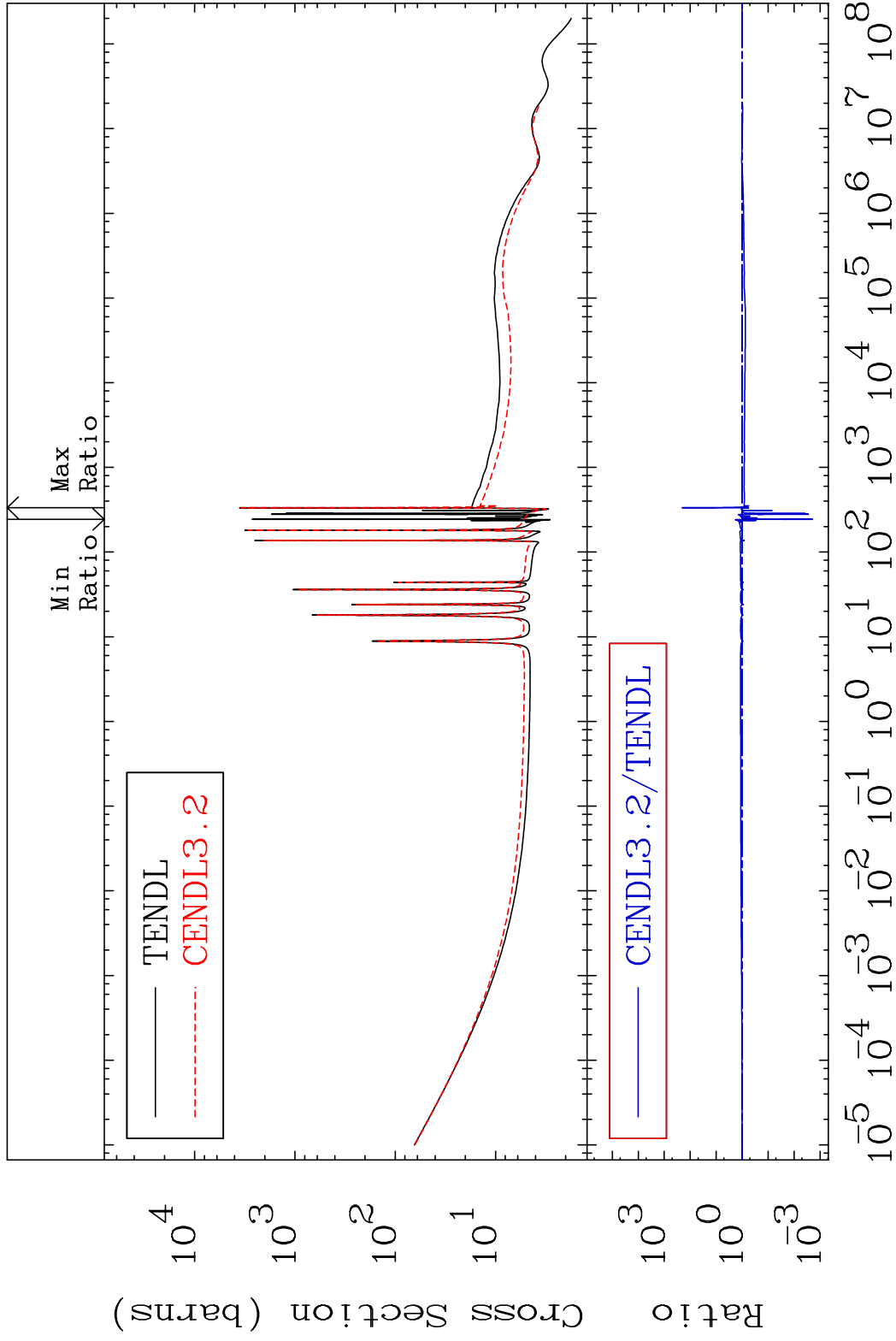
MAT 4446

Total

44-Ru-103

Cross Section

-99.81 To 9999. %



1

Incident Energy (eV)

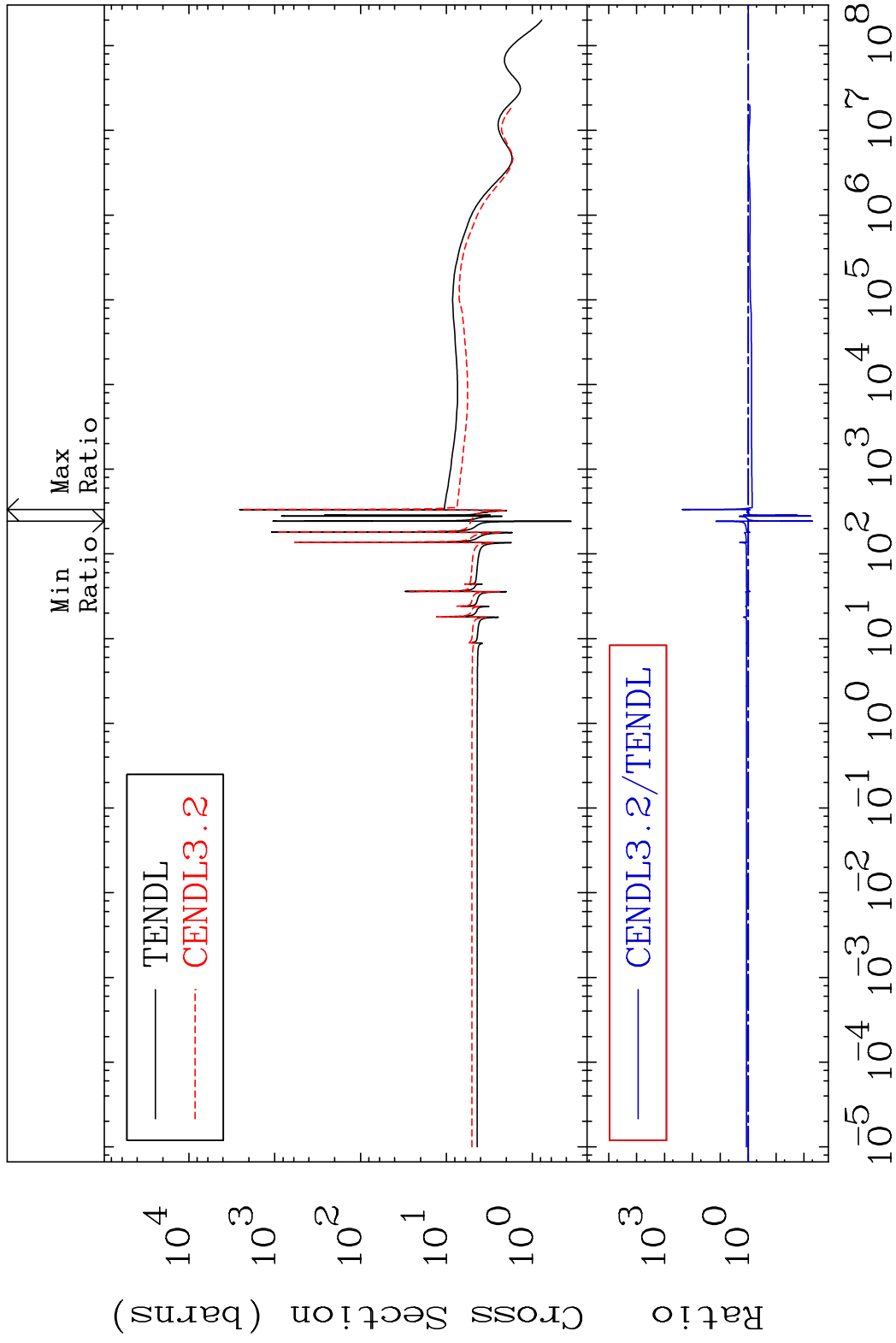
44-Ru-103

MAT 4446

Elastic

44-Ru-103

Cross Section -99.51 To 9999. %

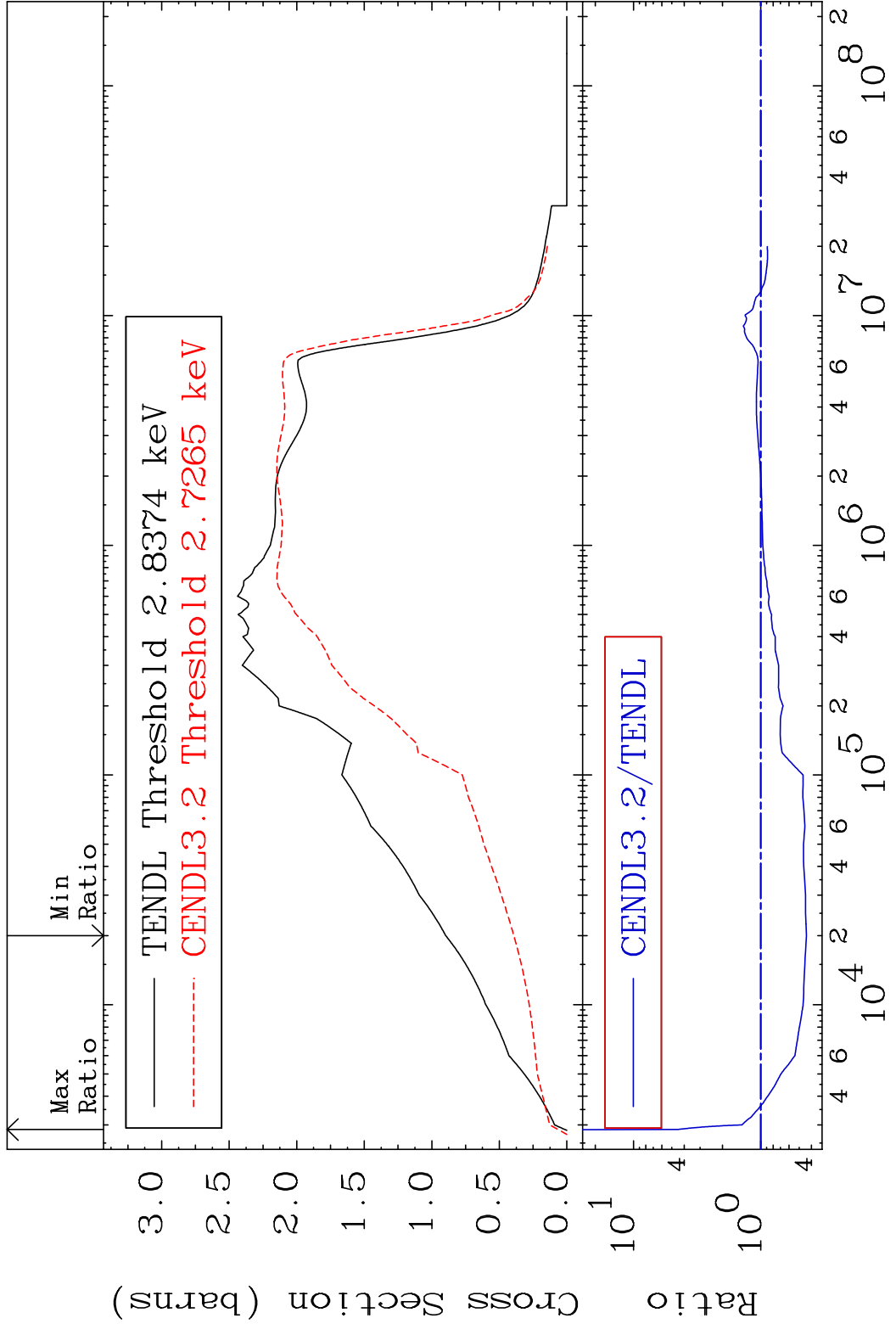


2

Incident Energy (eV)

44-Ru-103

MAT 4446 Inelastic 44-Ru-103
 Cross Section -56.18 To 354.0 %

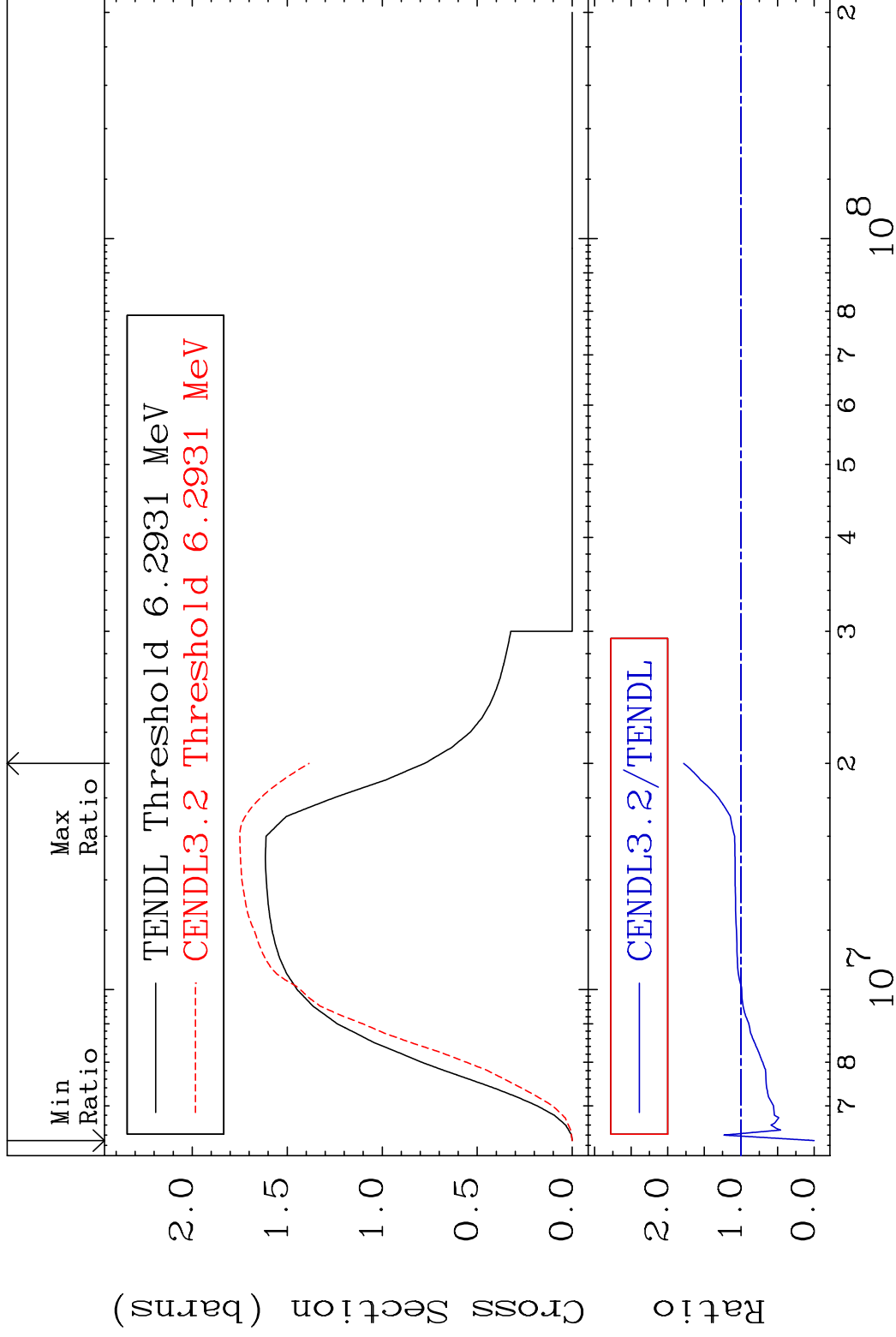


MAT 4446

(n,2n)

44-Ru-103

Cross Section -100.0 To 78.27 %



4

Incident Energy (eV)

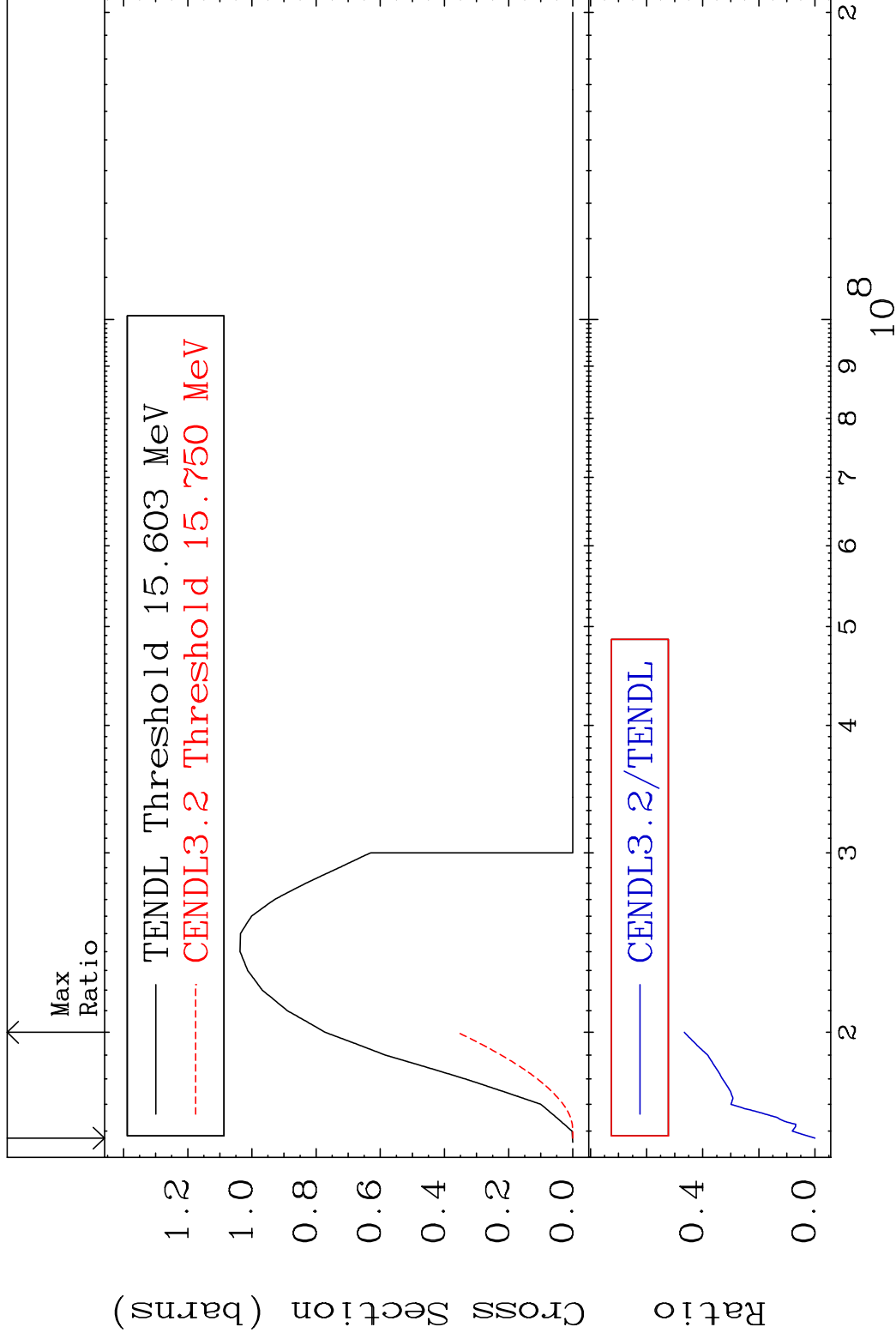
44-Ru-103

MAT 4446

(n,3n)

44-Ru-103

Cross Section -100.0 To -53.44%



5

Incident Energy (eV)

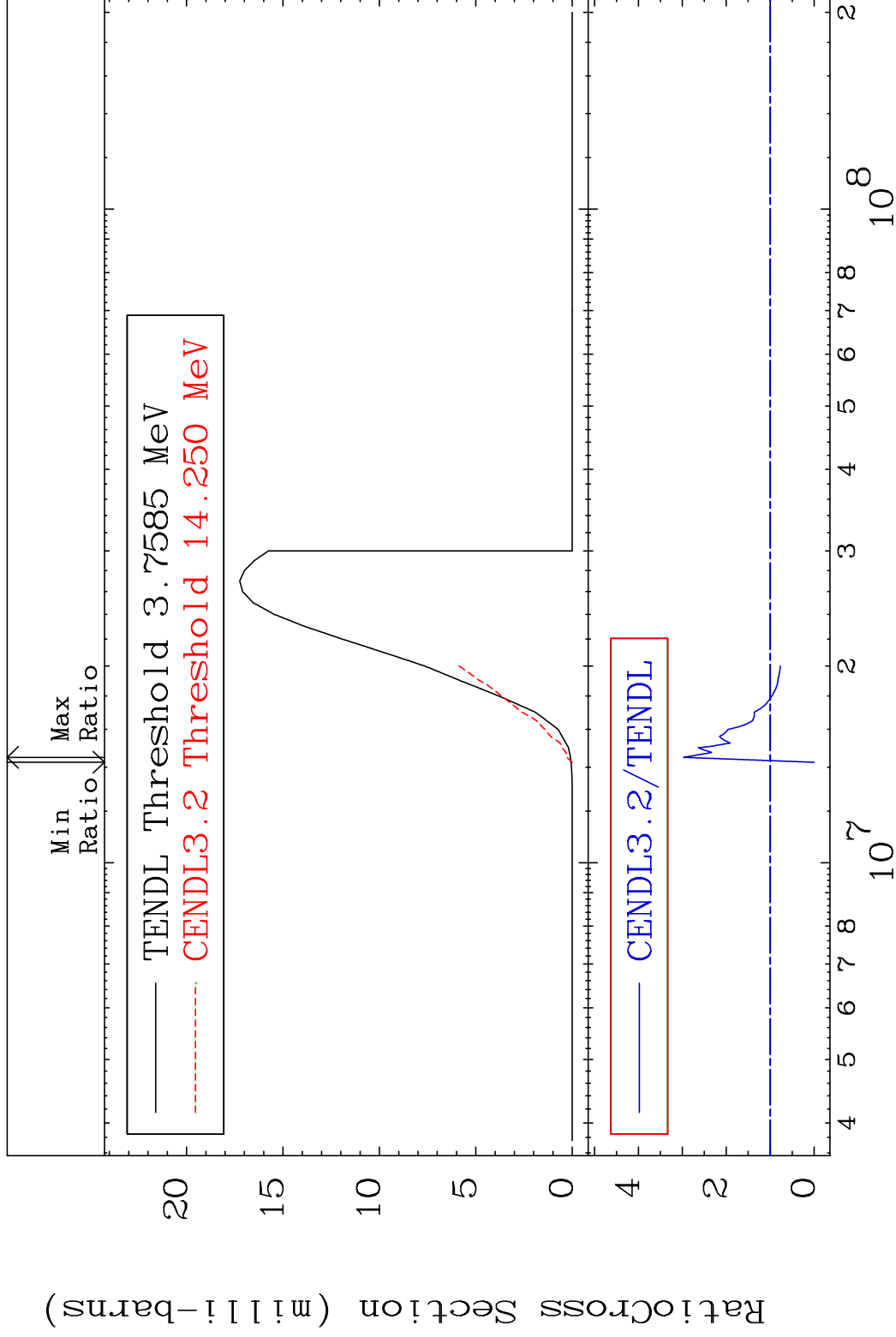
44-Ru-103

MAT 4446

(n, n') α

44-Ru-103

Cross Section -100.0 To 197.0 %



6

Incident Energy (eV)

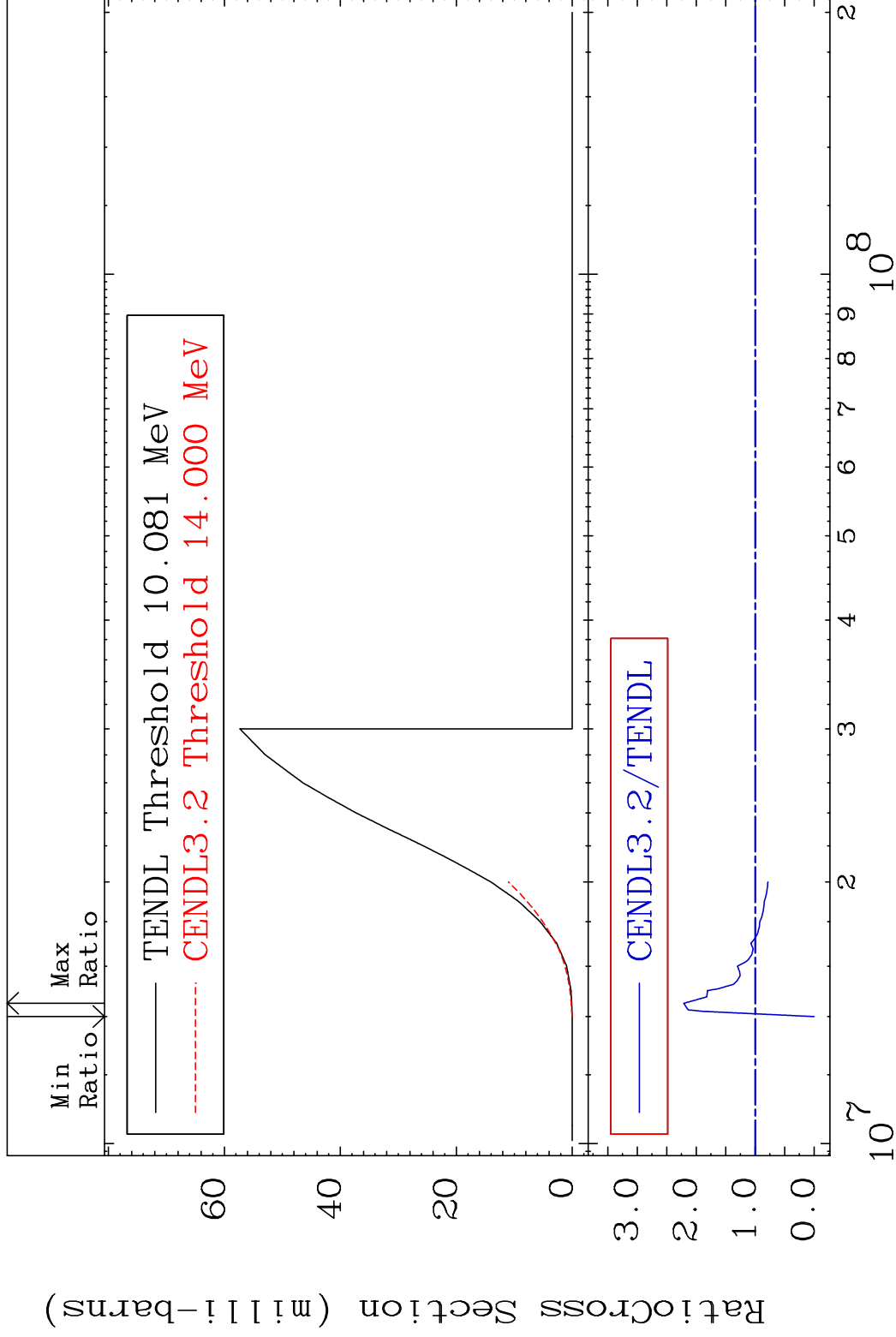
44-Ru-103

MAT 4446

(n, n') p

44-Ru-103

Cross Section -100.0 To 121.2 %

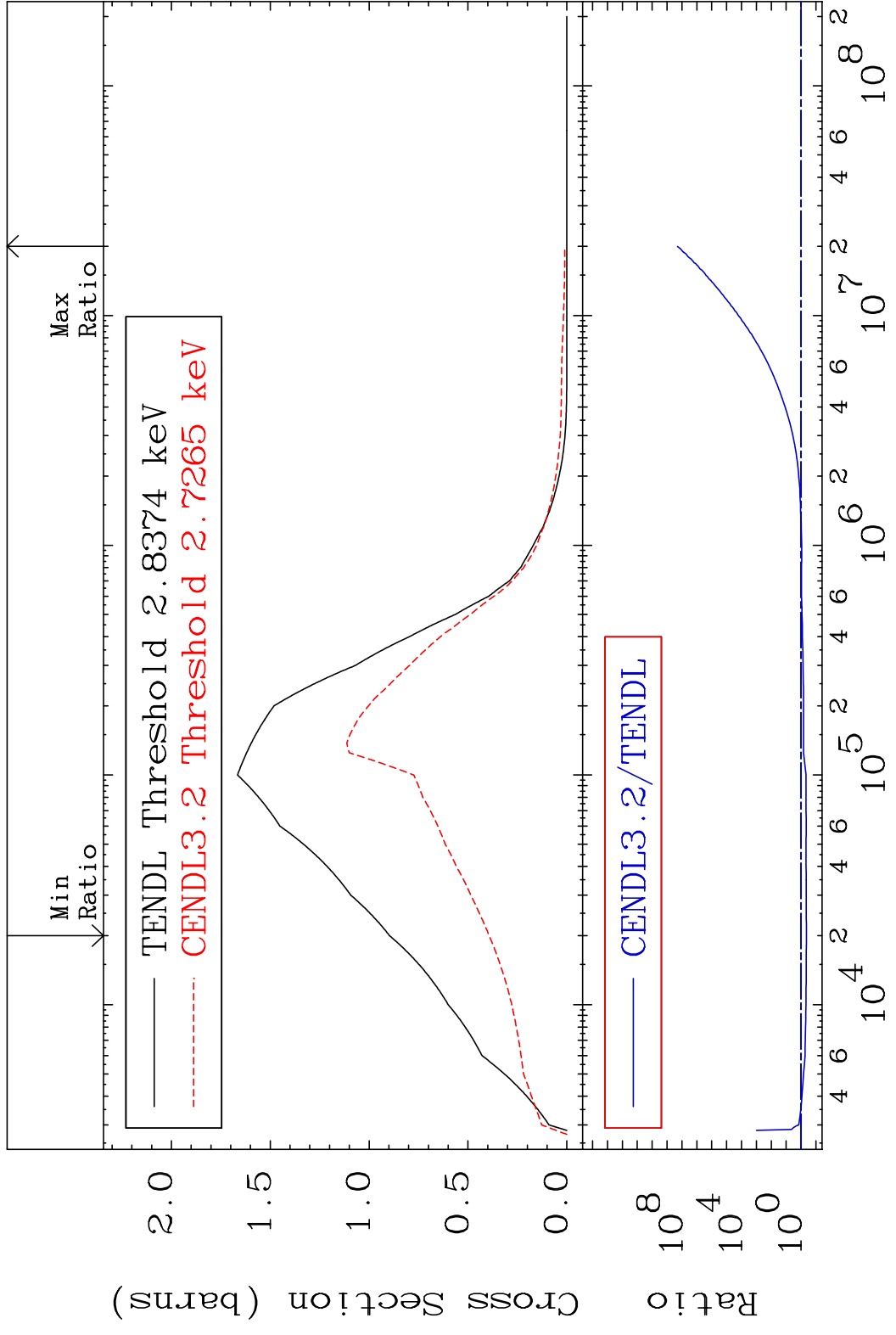


7

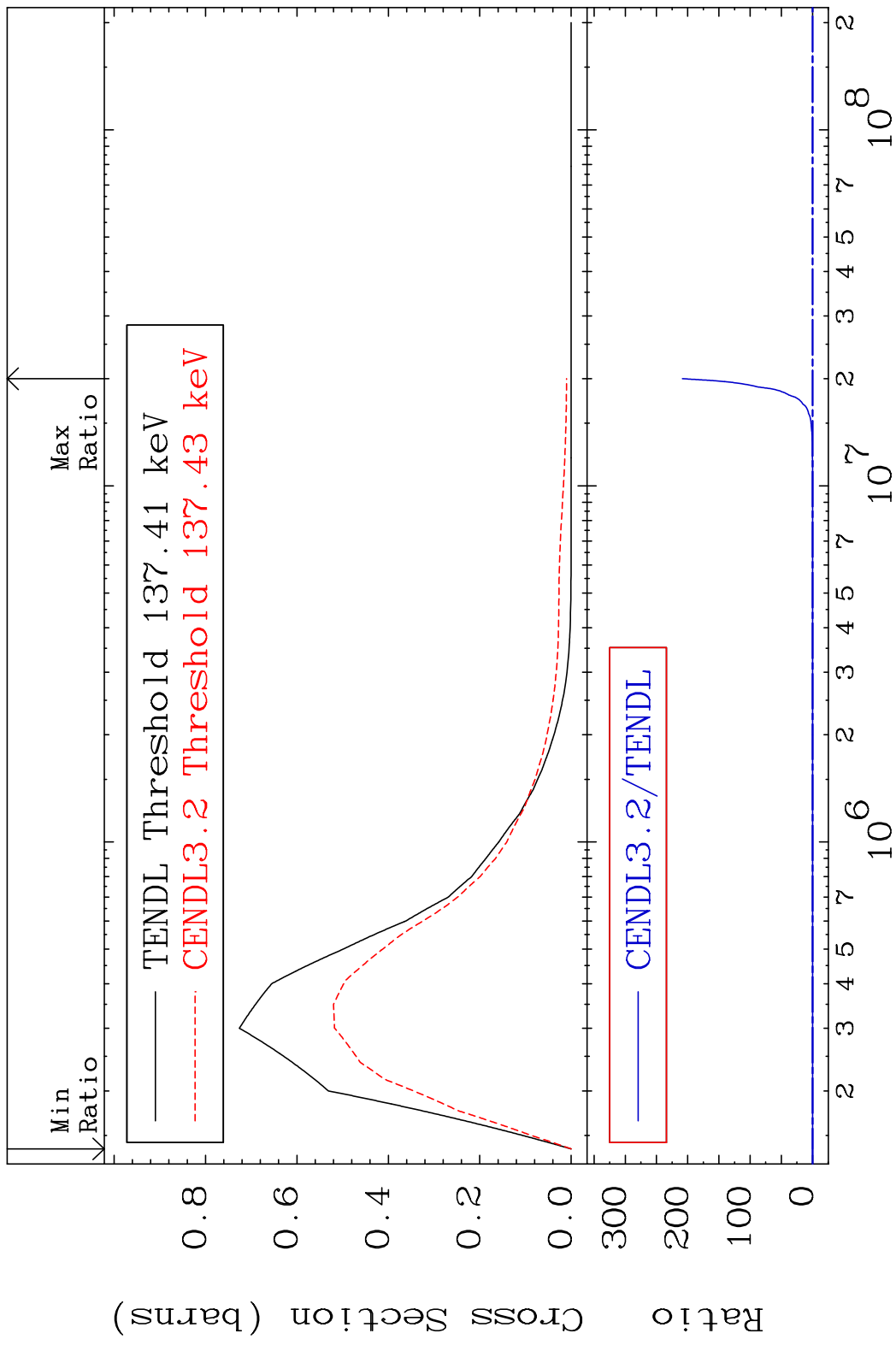
Incident Energy (eV)

44-Ru-103

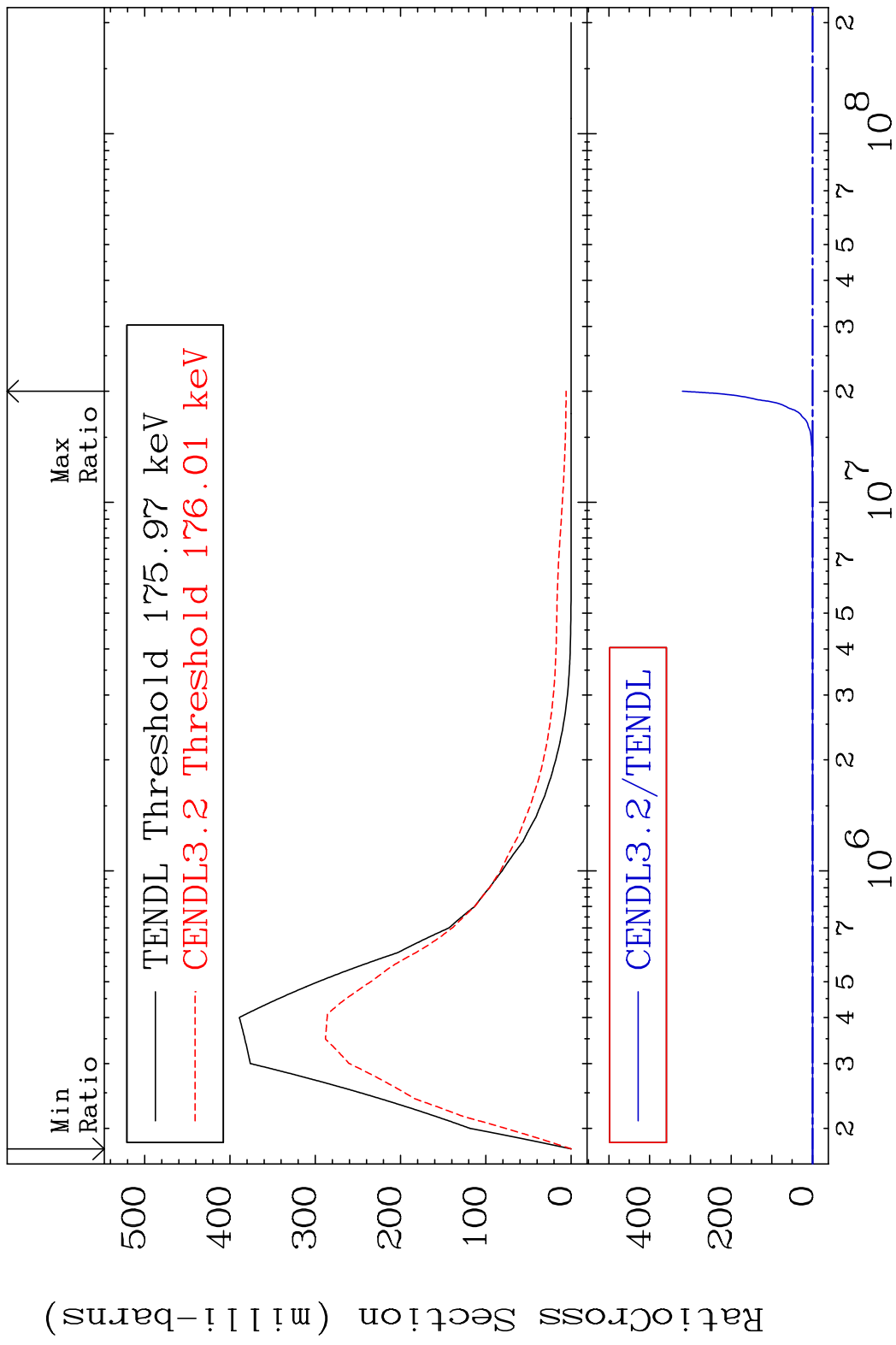
MAT 4446 MT= 51 (n, n') Level 44-Ru-103
 Cross Section -56.18 To 9999. %



MAT 4446 MT= 52 (n,n') Level 44-Ru-103
 Cross Section -100.0 To 9999. %

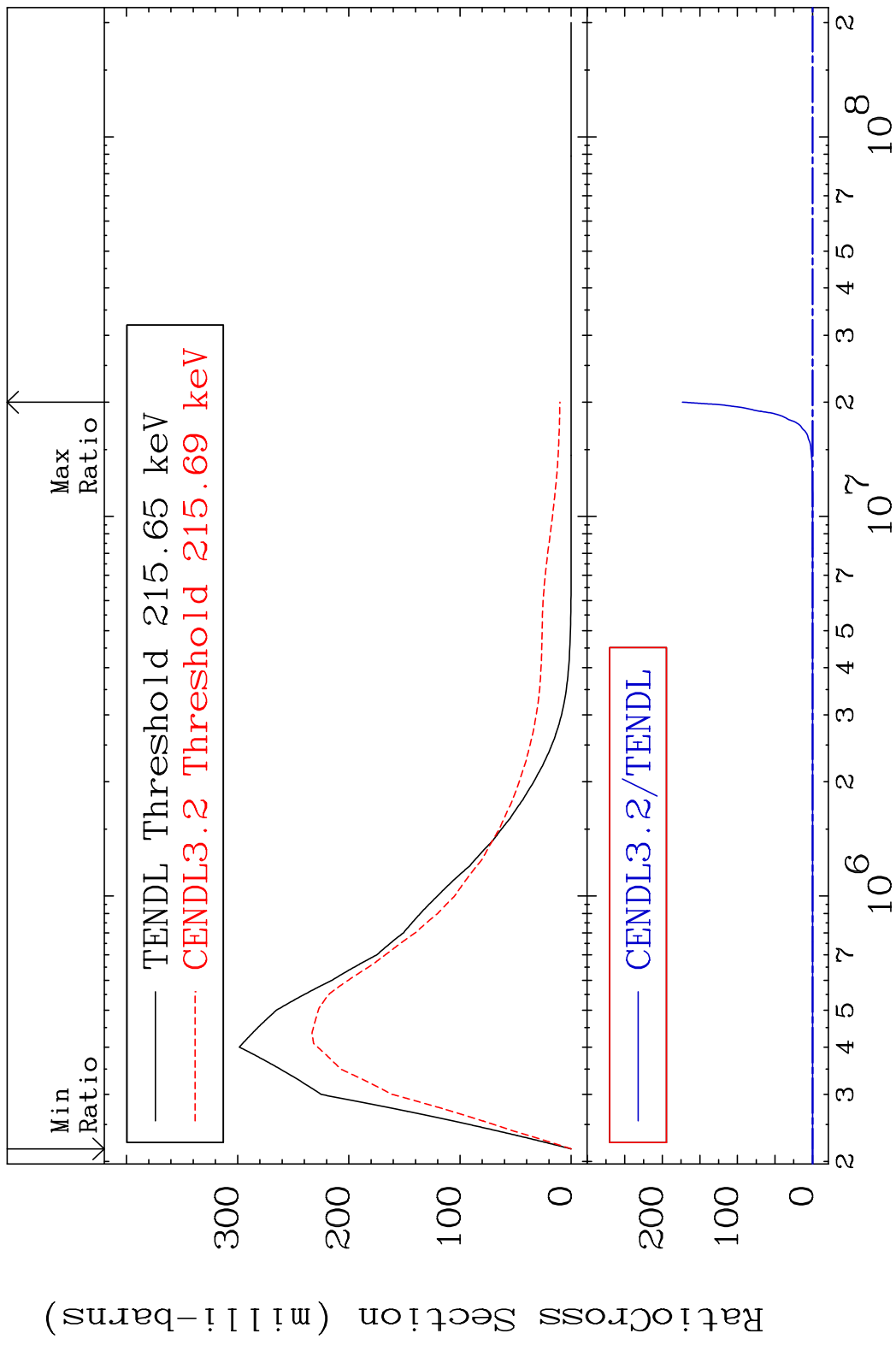


MAT 4446 MT= 53 (n, n') Level 44-Ru-103
 Cross Section -100.0 To 9999. %

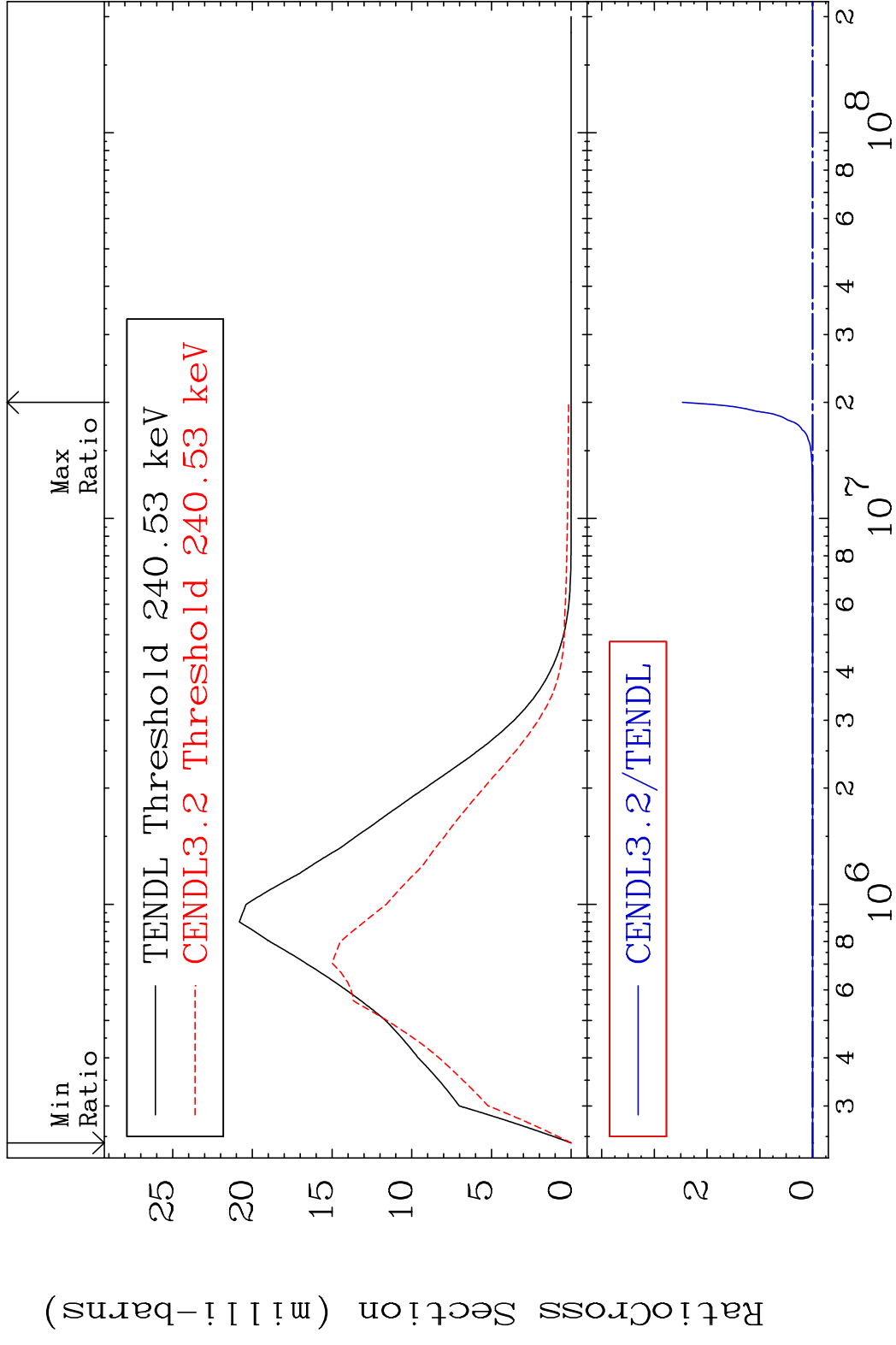


10 Incident Energy (eV) 44-Ru-103

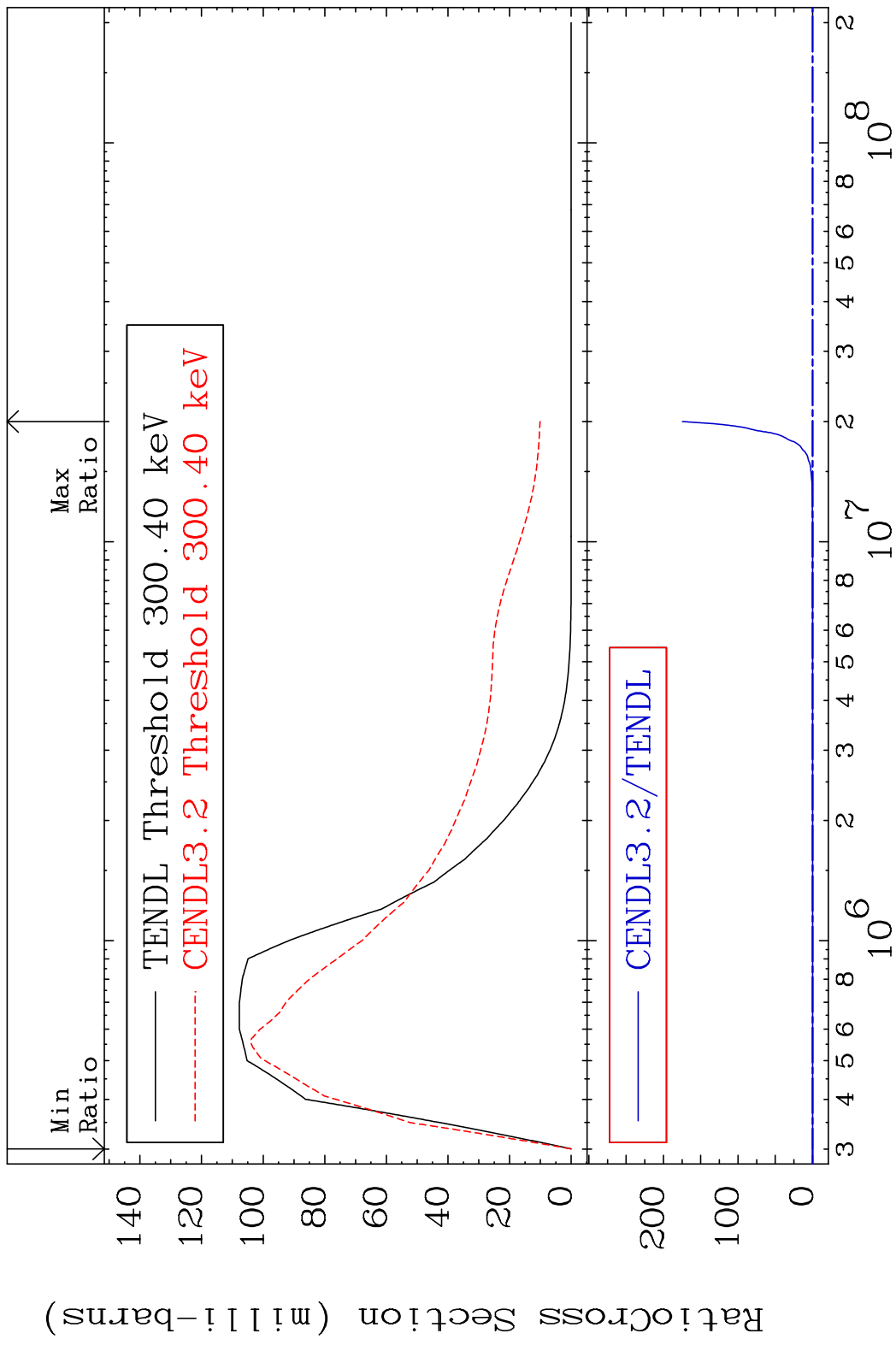
MAT 4446 MT= 54 (n,n') Level 44-Ru-103
 Cross Section -100.0 To 9999. %



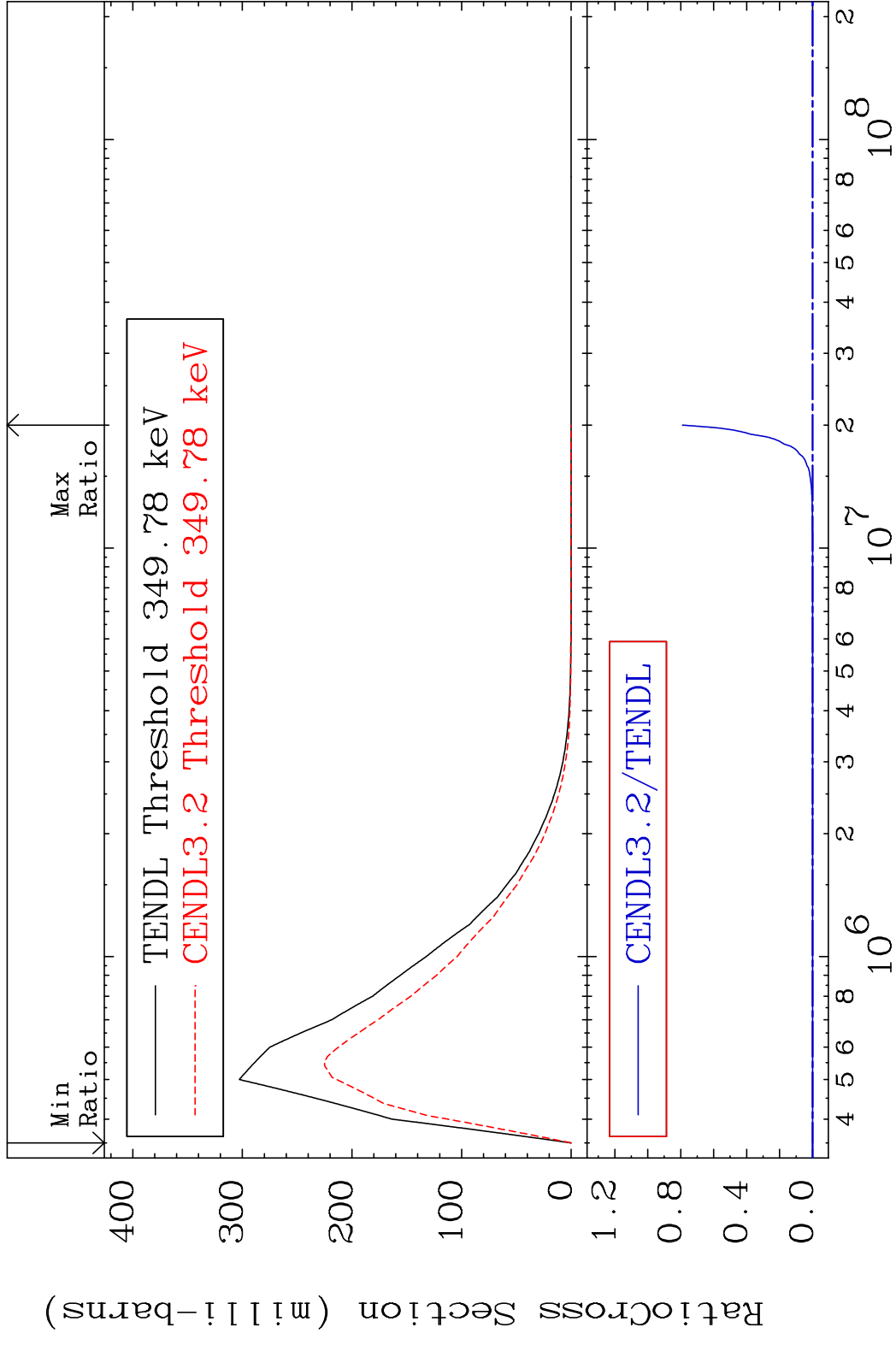
MAT 4446 MT= 55 (n,n') Level 44-Ru-103
 Cross Section -100.0 To 9999. %



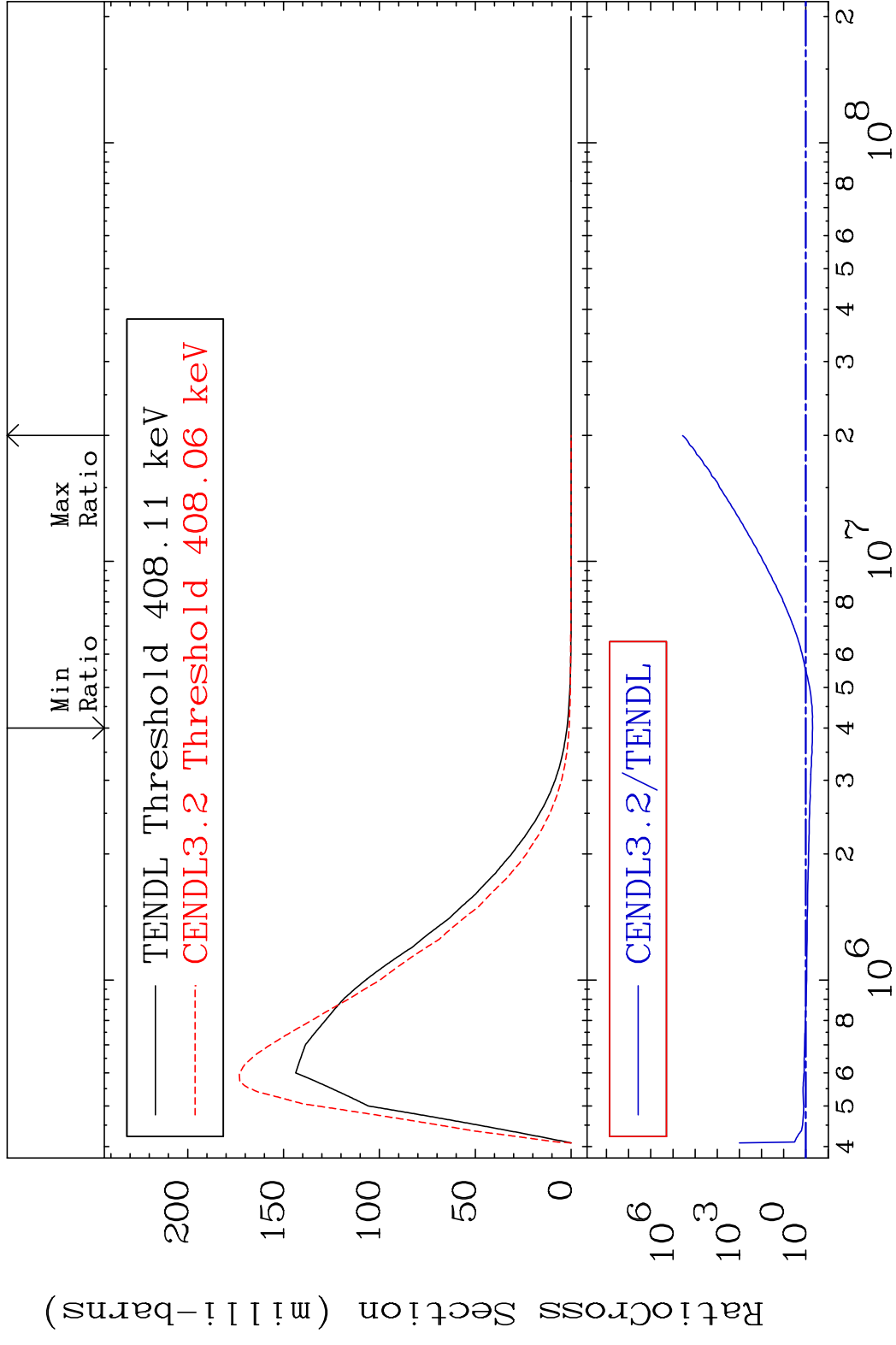
MAT 4446 MT= 56 (n,n') Level 44-Ru-103
 Cross Section -100.0 To 9999. %



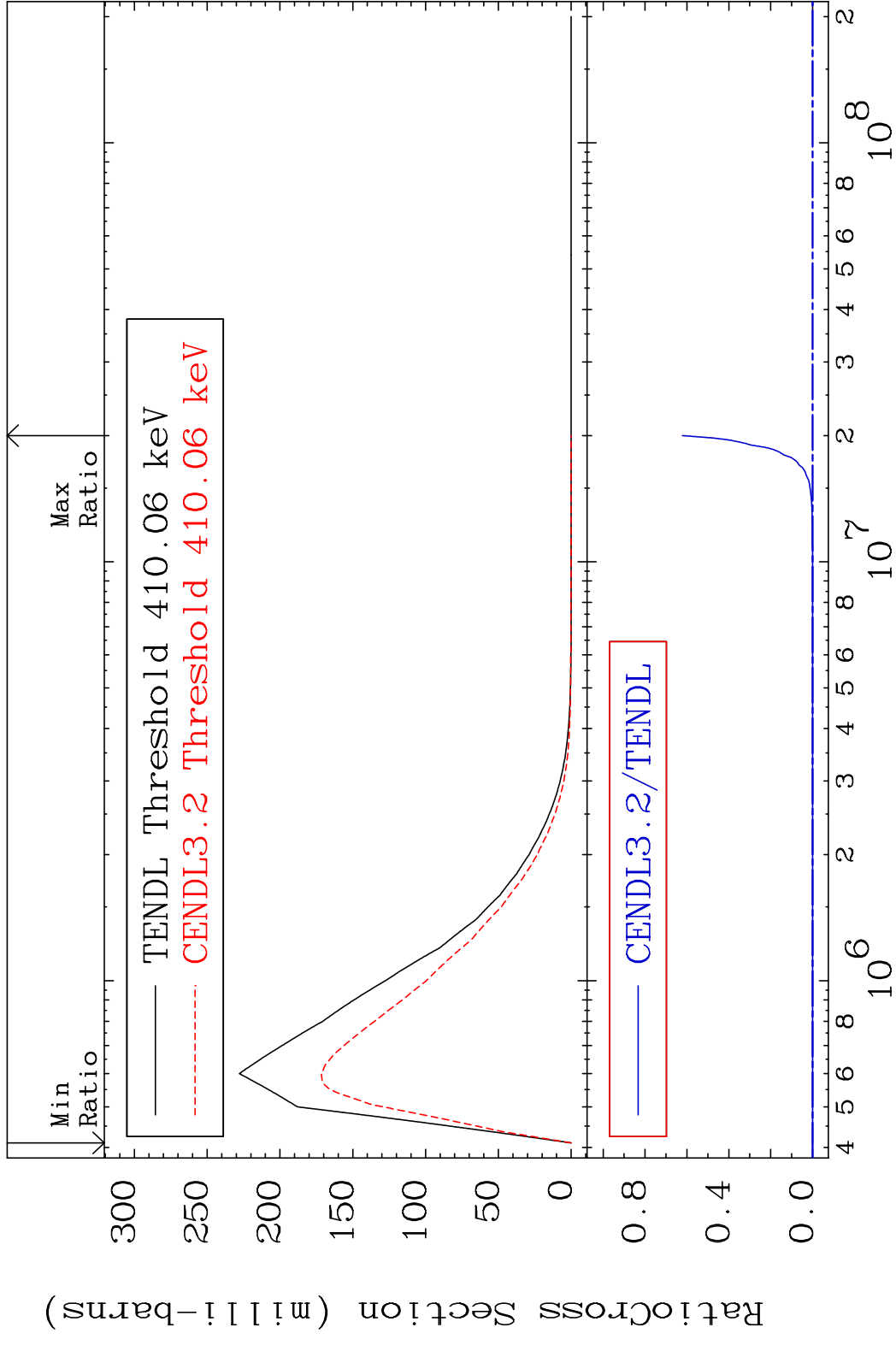
MAT 4446 MT= 57 (n, n') Level 44-Ru-103
 Cross Section -100.0 To 9999. %



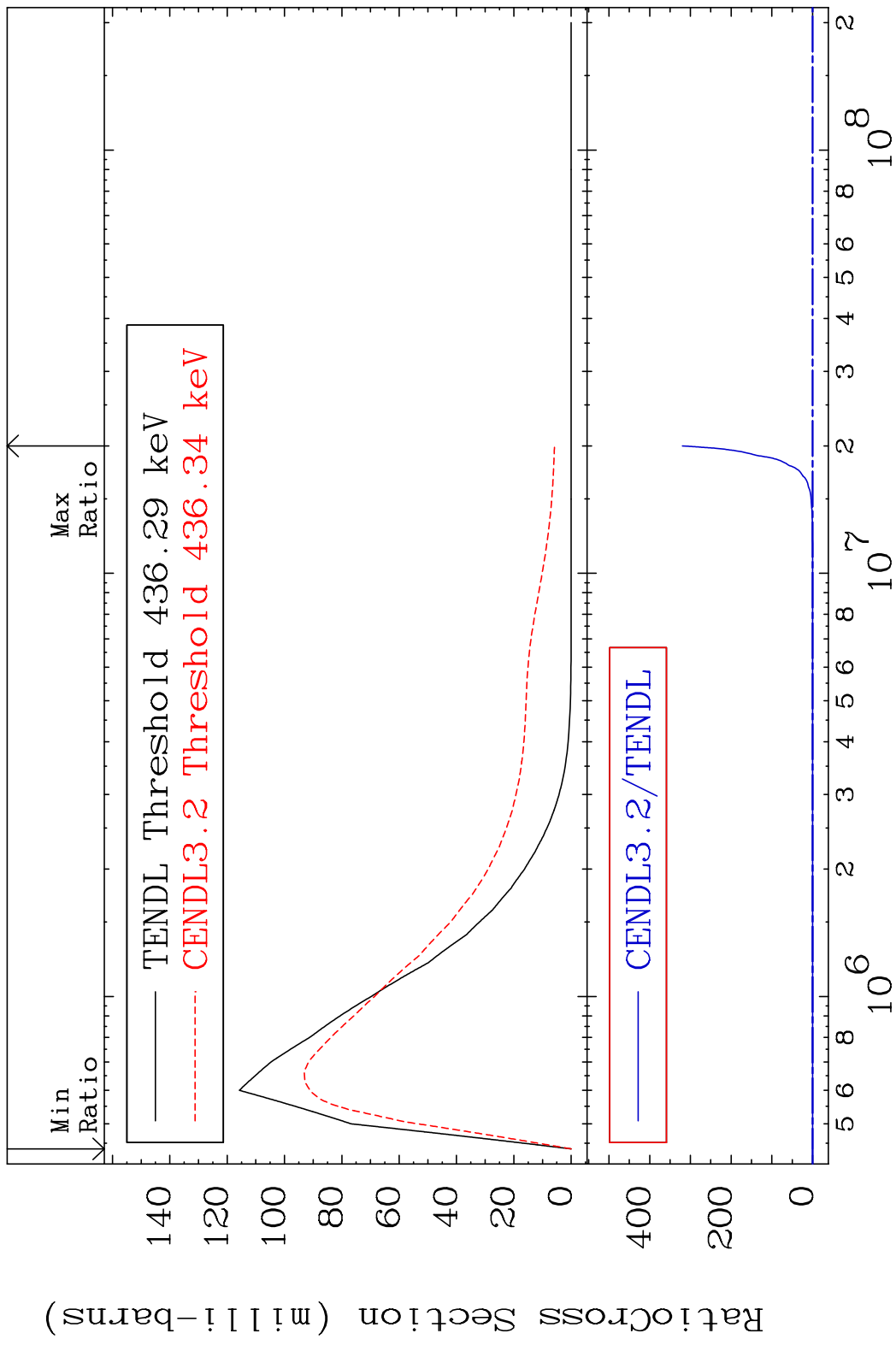
MAT 4446 MT= 58 (n, n') Level 44-Ru-103
 Cross Section -50.08 To 9999. %



MAT 4446 MT= 59 (n, n') Level 44-Ru-103
 Cross Section -100.0 To 9999. %

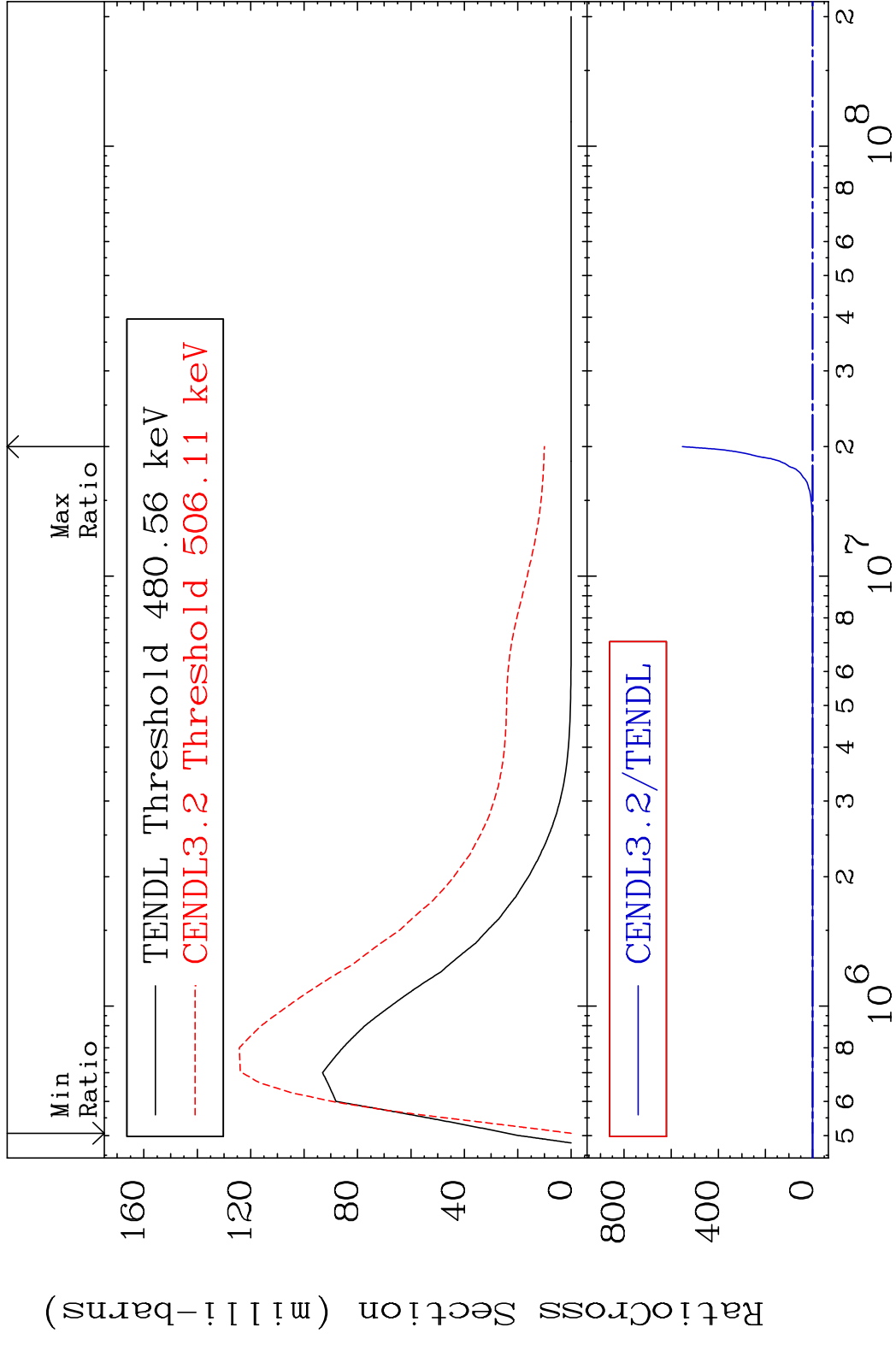


MAT 4446 MT= 60 (n, n') Level 44-Ru-103
 Cross Section -100.0 To 9999. %

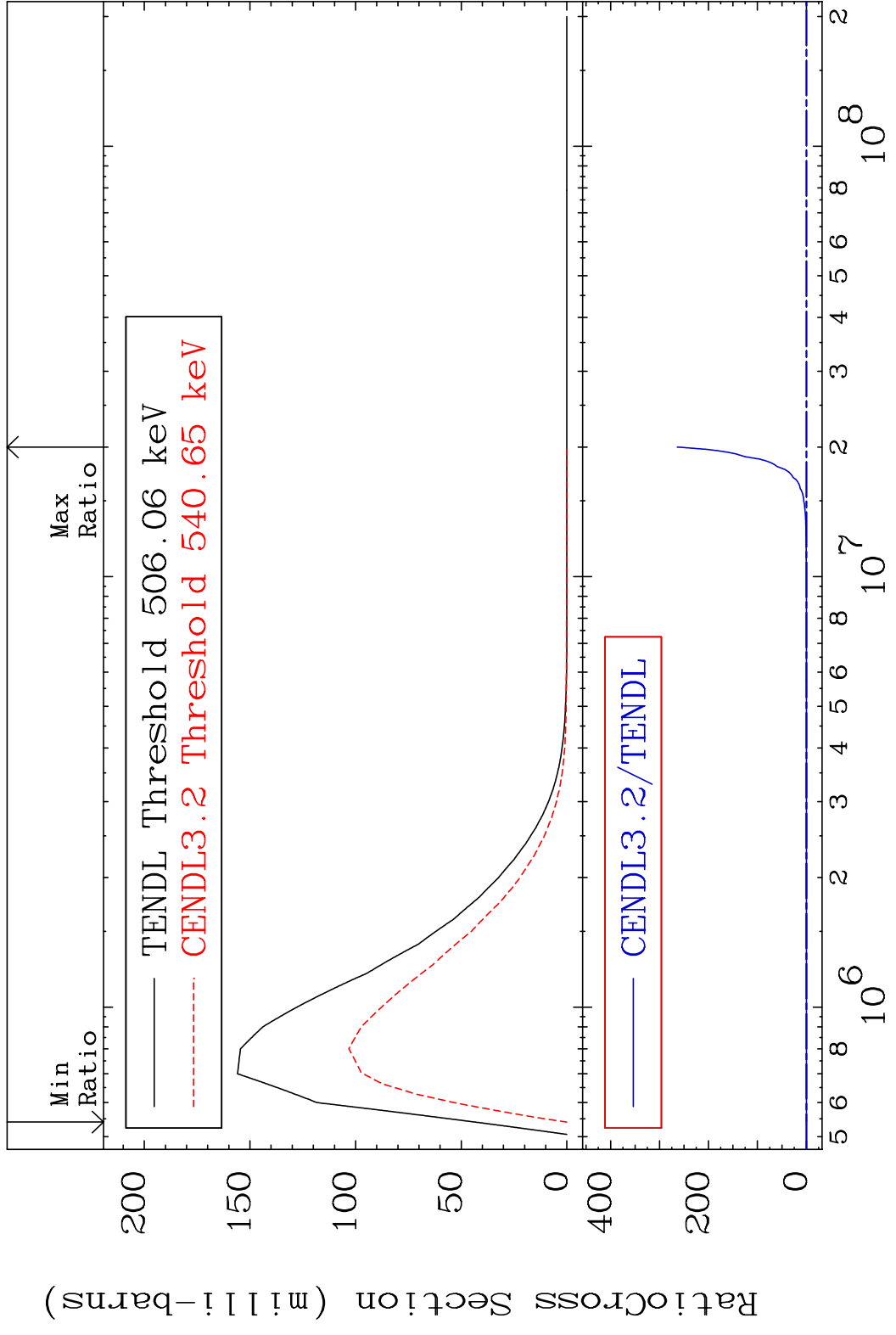


17 Incident Energy (eV) 44-Ru-103

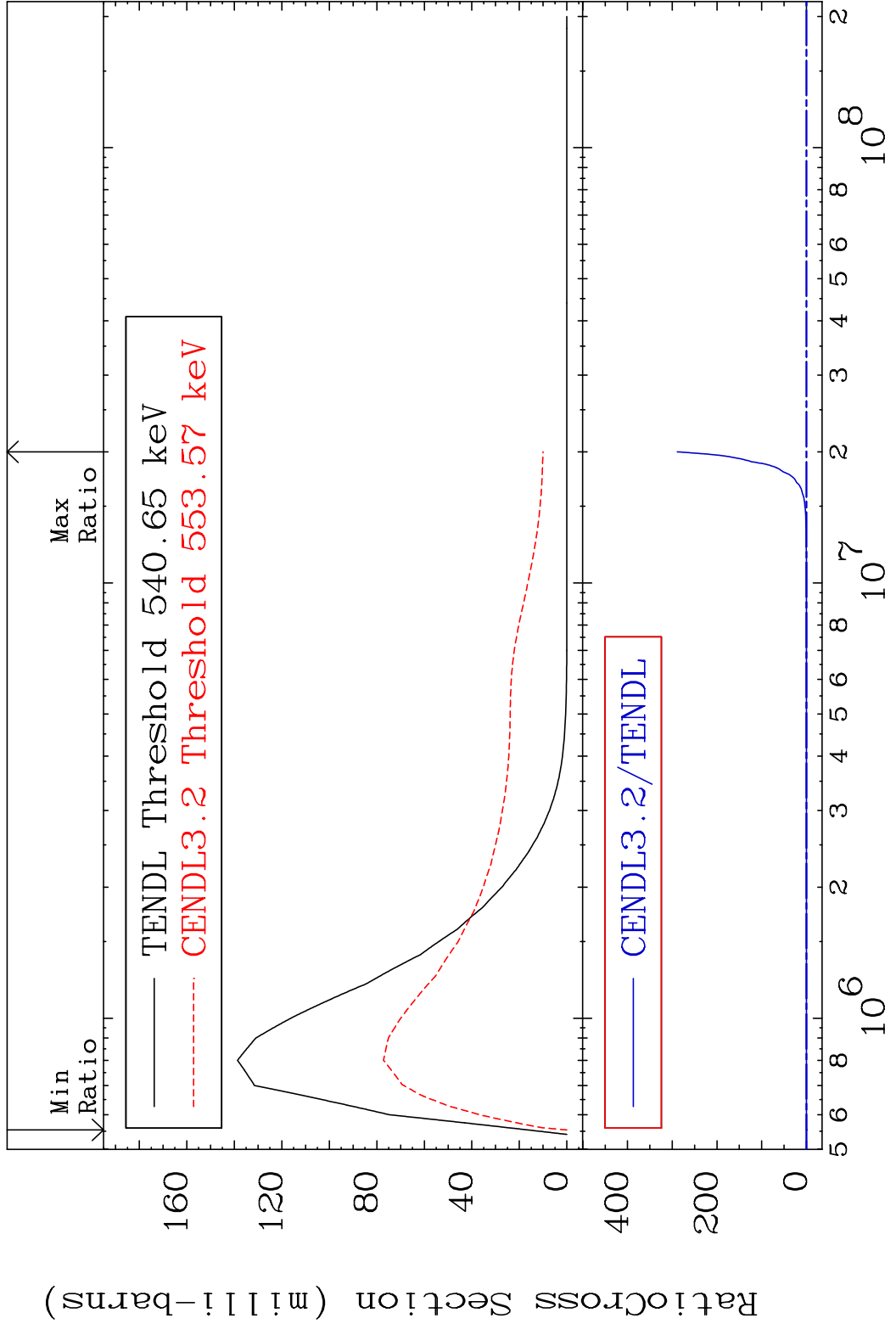
MAT 4446 MT= 61 (n, n') Level 44-Ru-103
 Cross Section -100.0 To 9999. %



MAT 4446 MT= 62 (n, n') Level 44-Ru-103
 Cross Section -100.0 To 9999. %

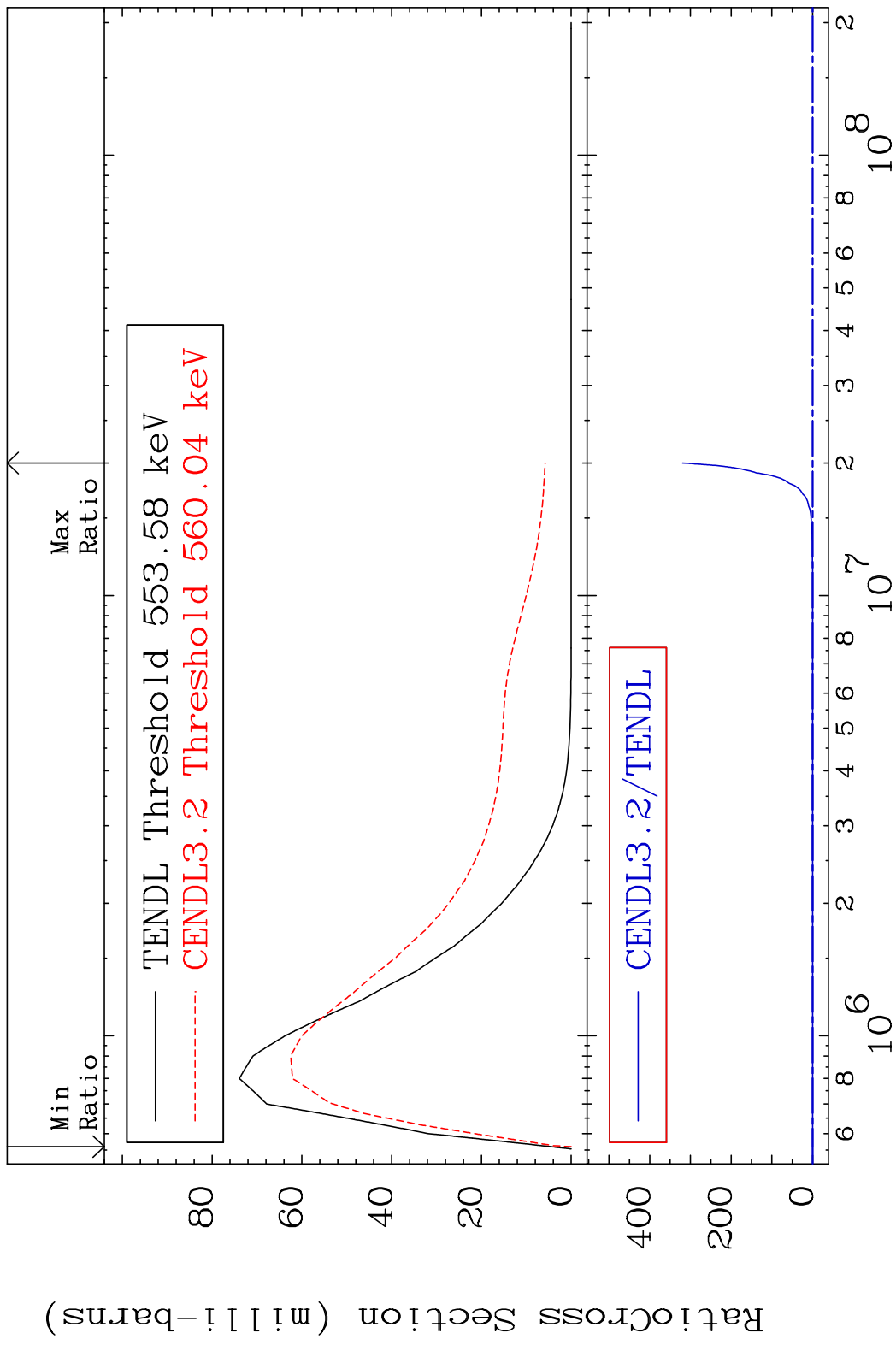


MAT 4446 MT= 63 (n, n') Level 44-Ru-103
 Cross Section -100.0 To 9999. %

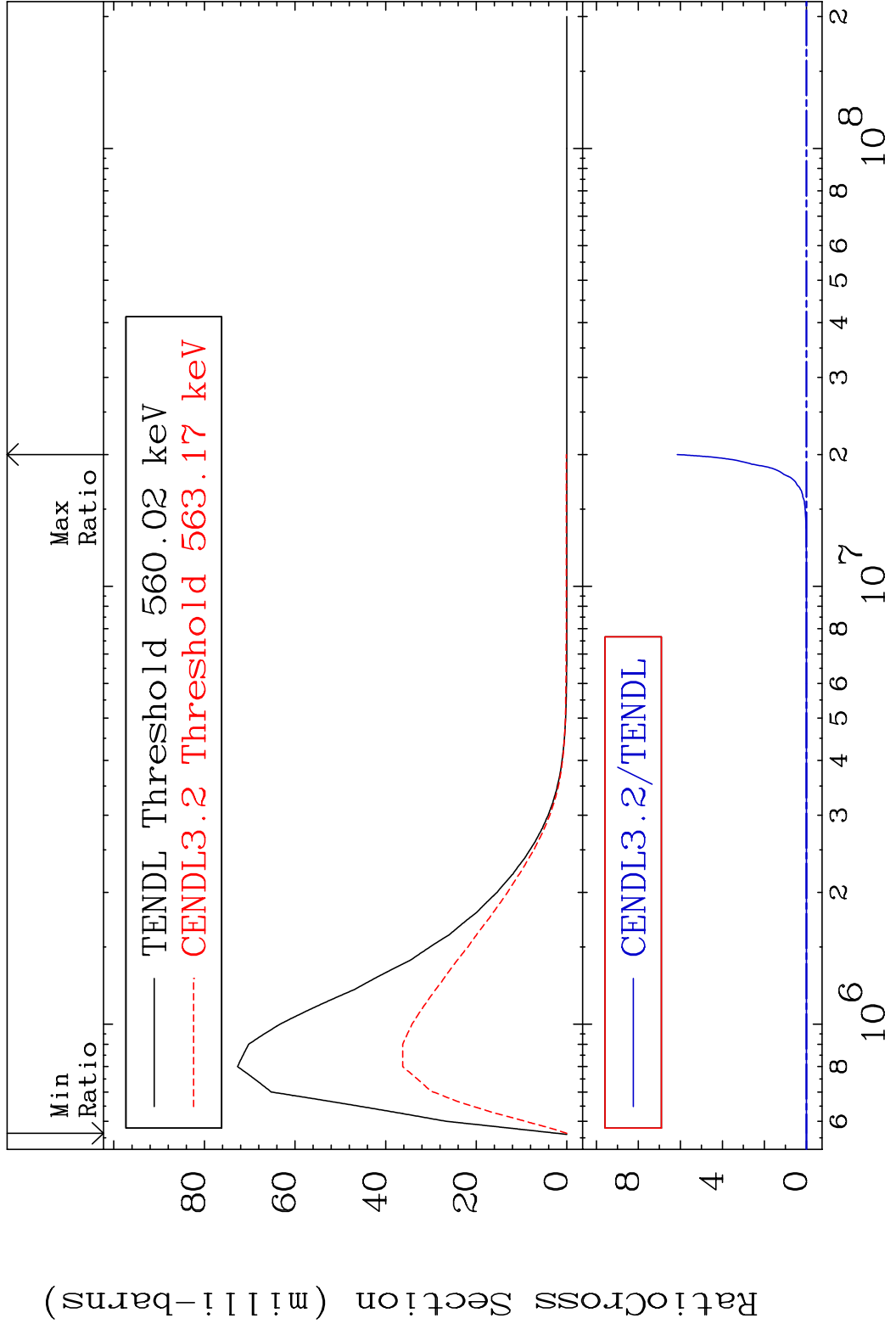


20 Incident Energy (eV) 44-Ru-103

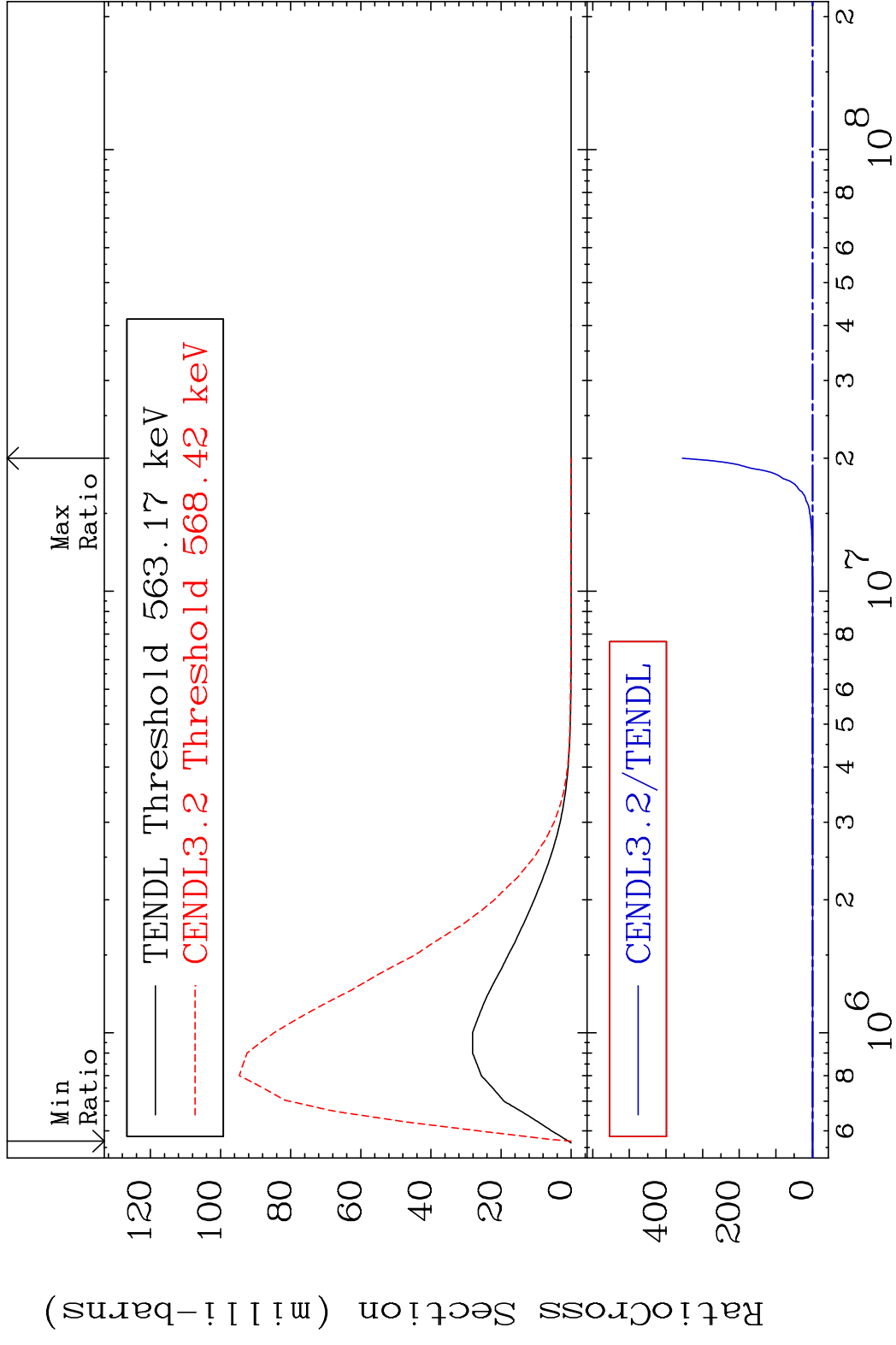
MAT 4446 MT= 64 (n, n') Level 44-Ru-103
 Cross Section -100.0 To 9999. %



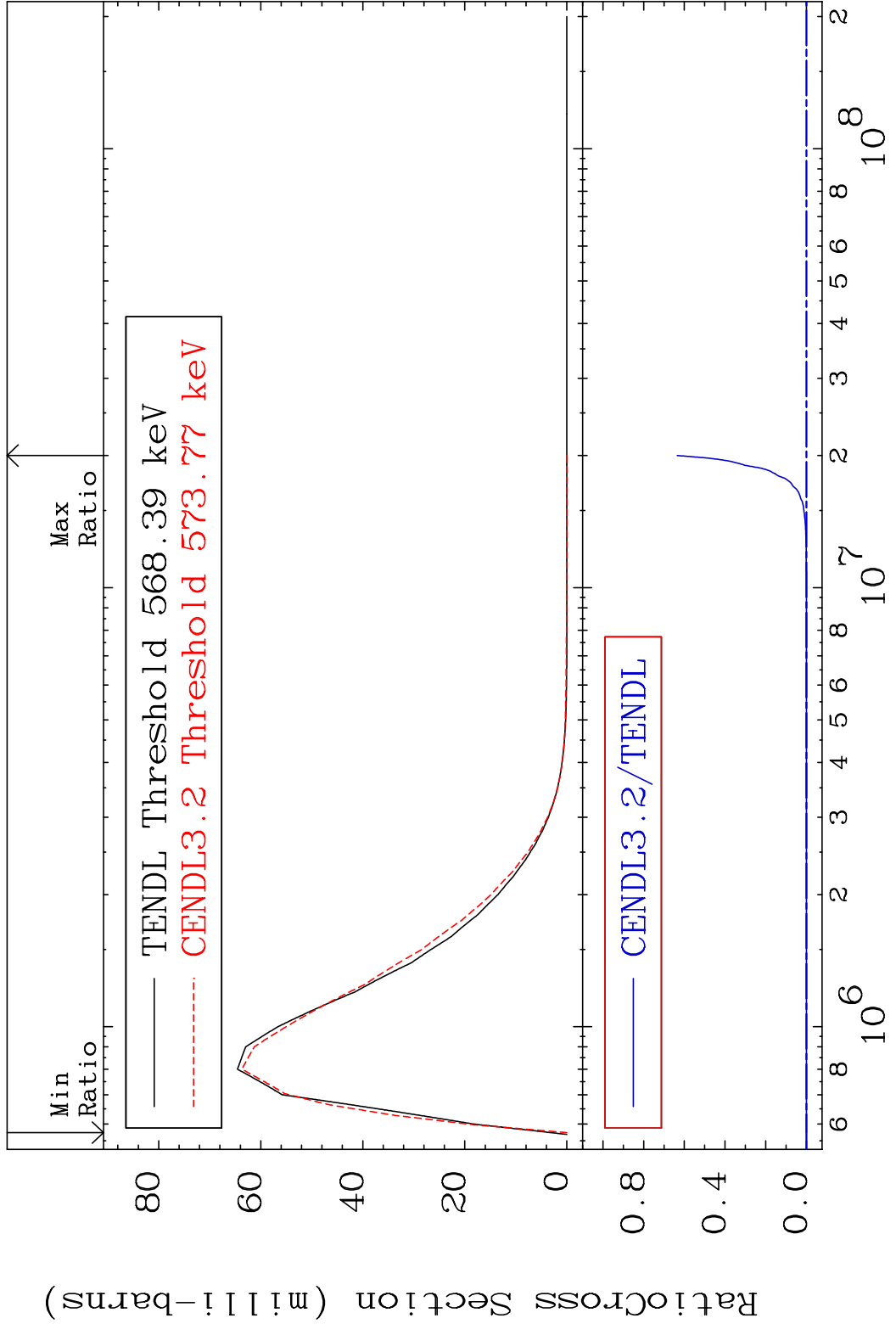
MAT 4446 MT= 65 (n, n') Level 44-Ru-103
 Cross Section -100.0 To 9999. %



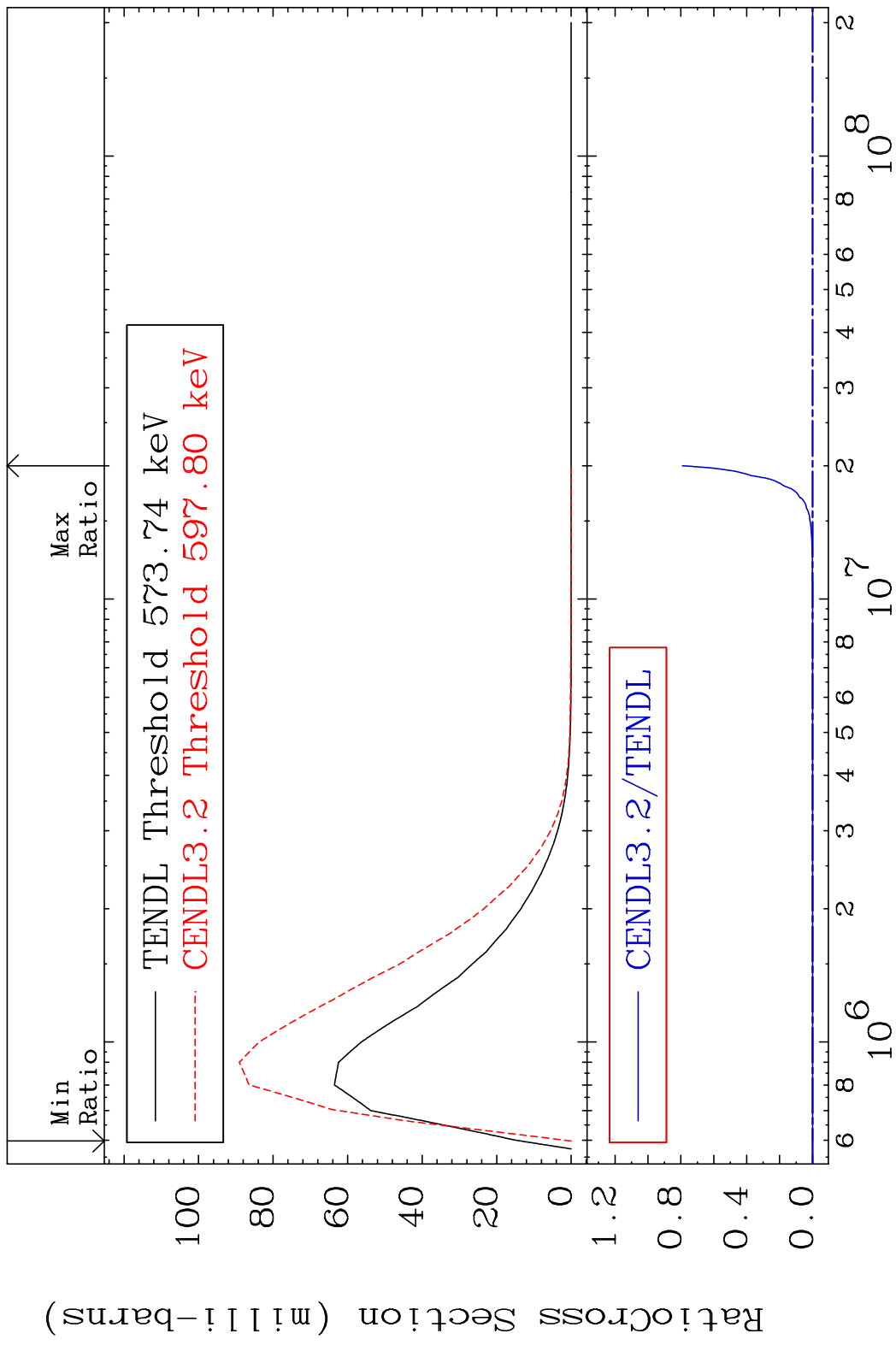
MAT 4446 MT= 66 (n, n') Level 44-Ru-103
 Cross Section -100.0 To 9999. %



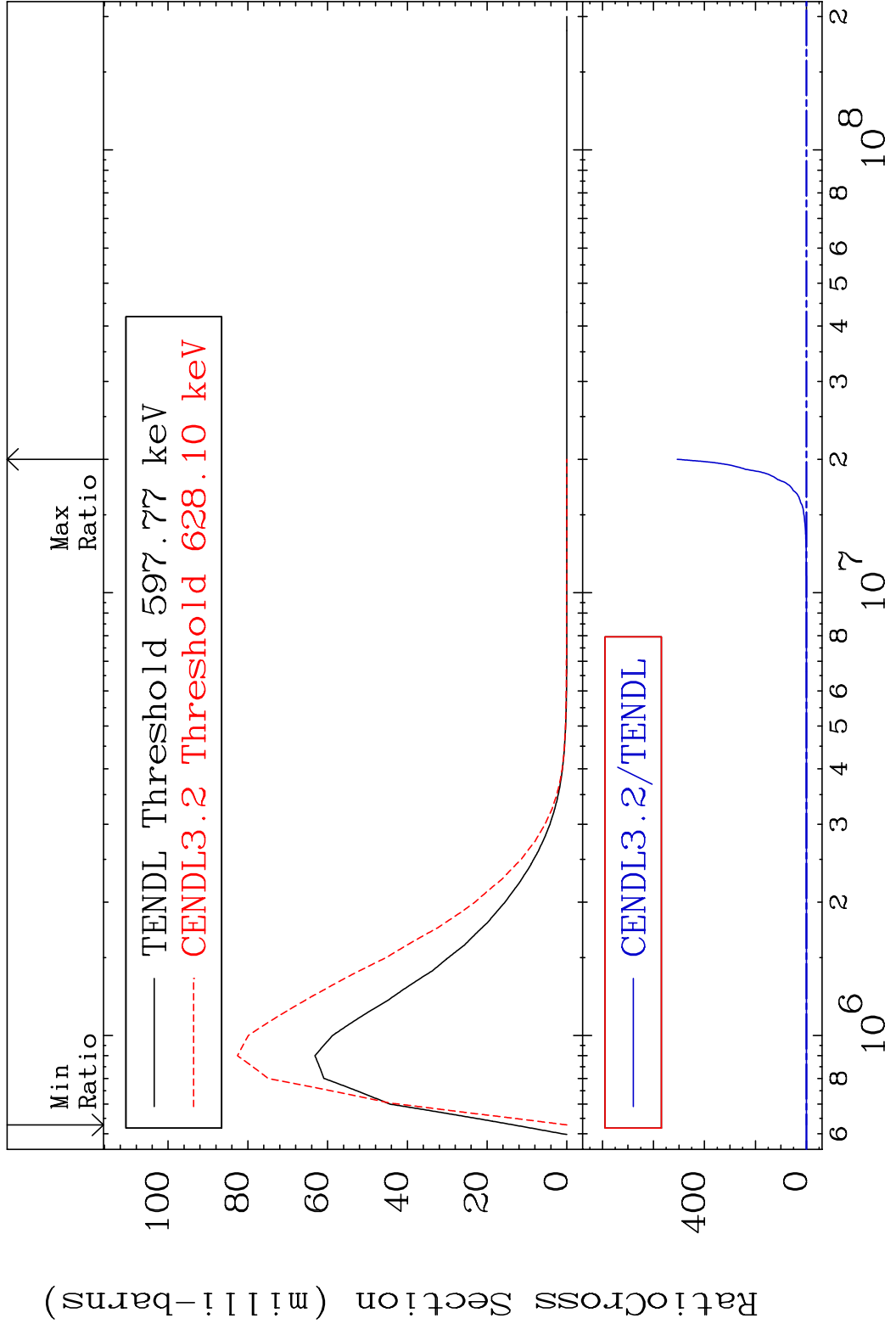
MAT 4446 MT= 67 (n, n') Level 44-Ru-103
 Cross Section -100.0 To 9999. %



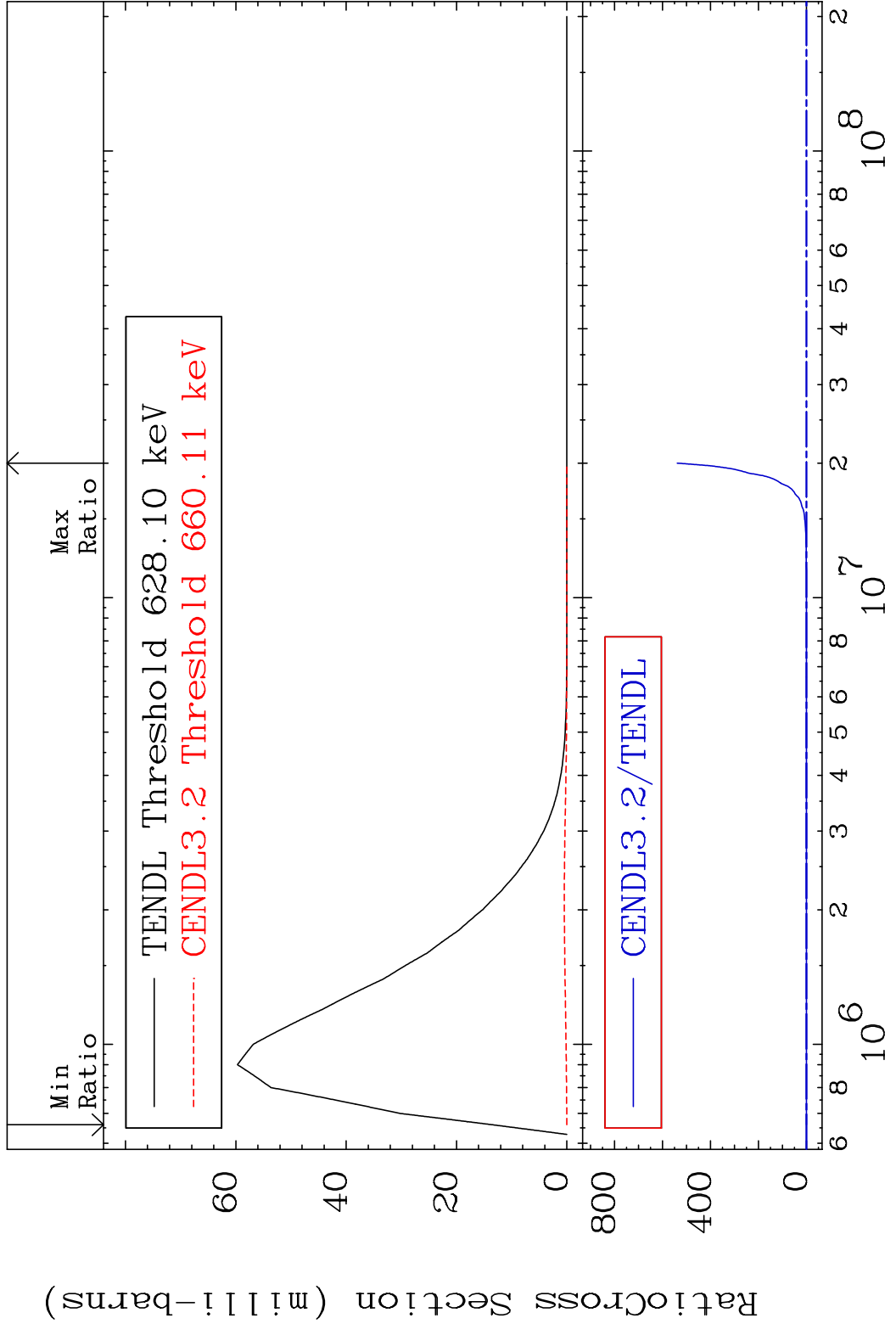
MAT 4446 MT= 68 (n, n') Level 44-Ru-103
 Cross Section -100.0 To 9999. %



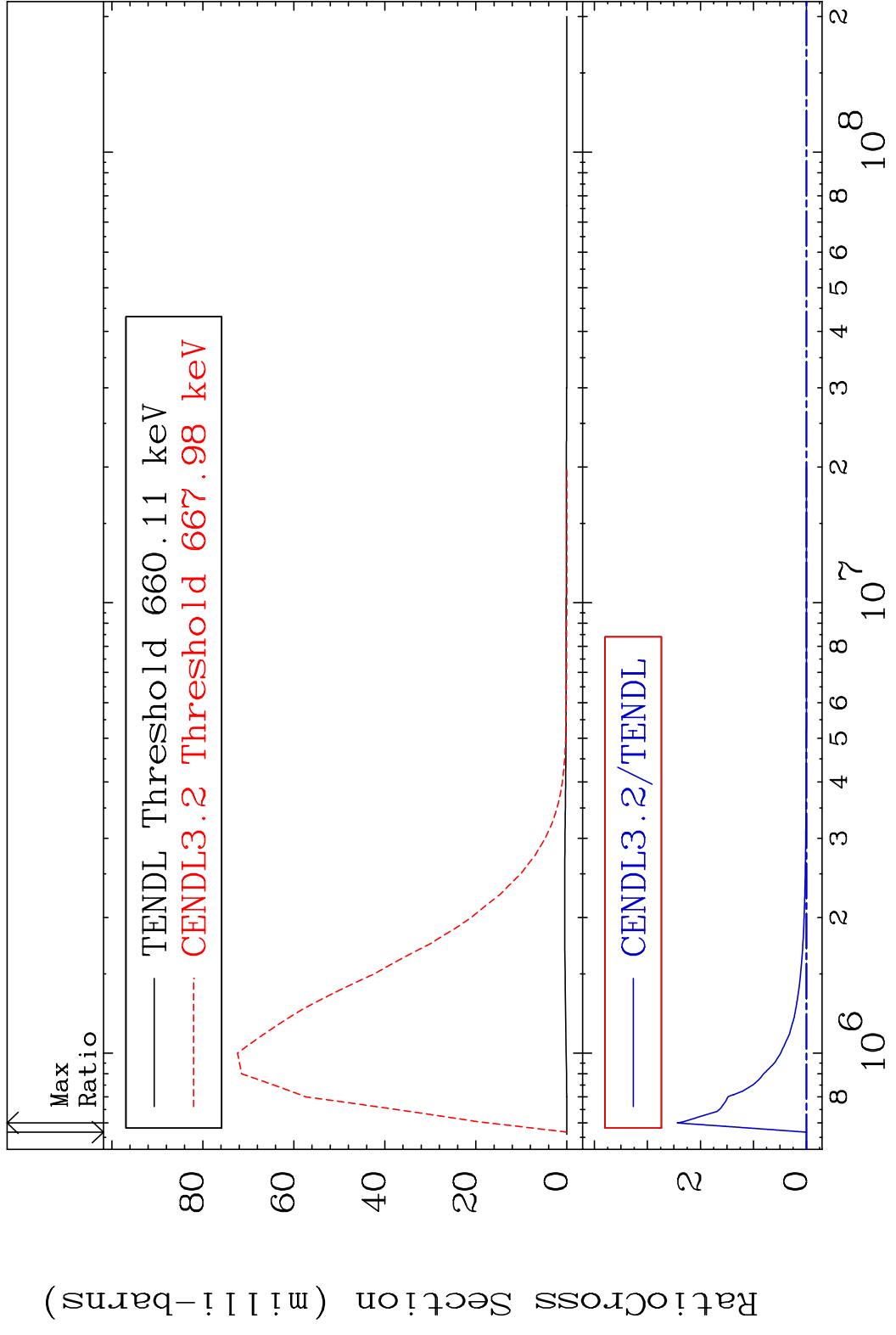
MAT 4446 MT= 69 (n, n') Level 44-Ru-103
 Cross Section -100.0 To 9999. %



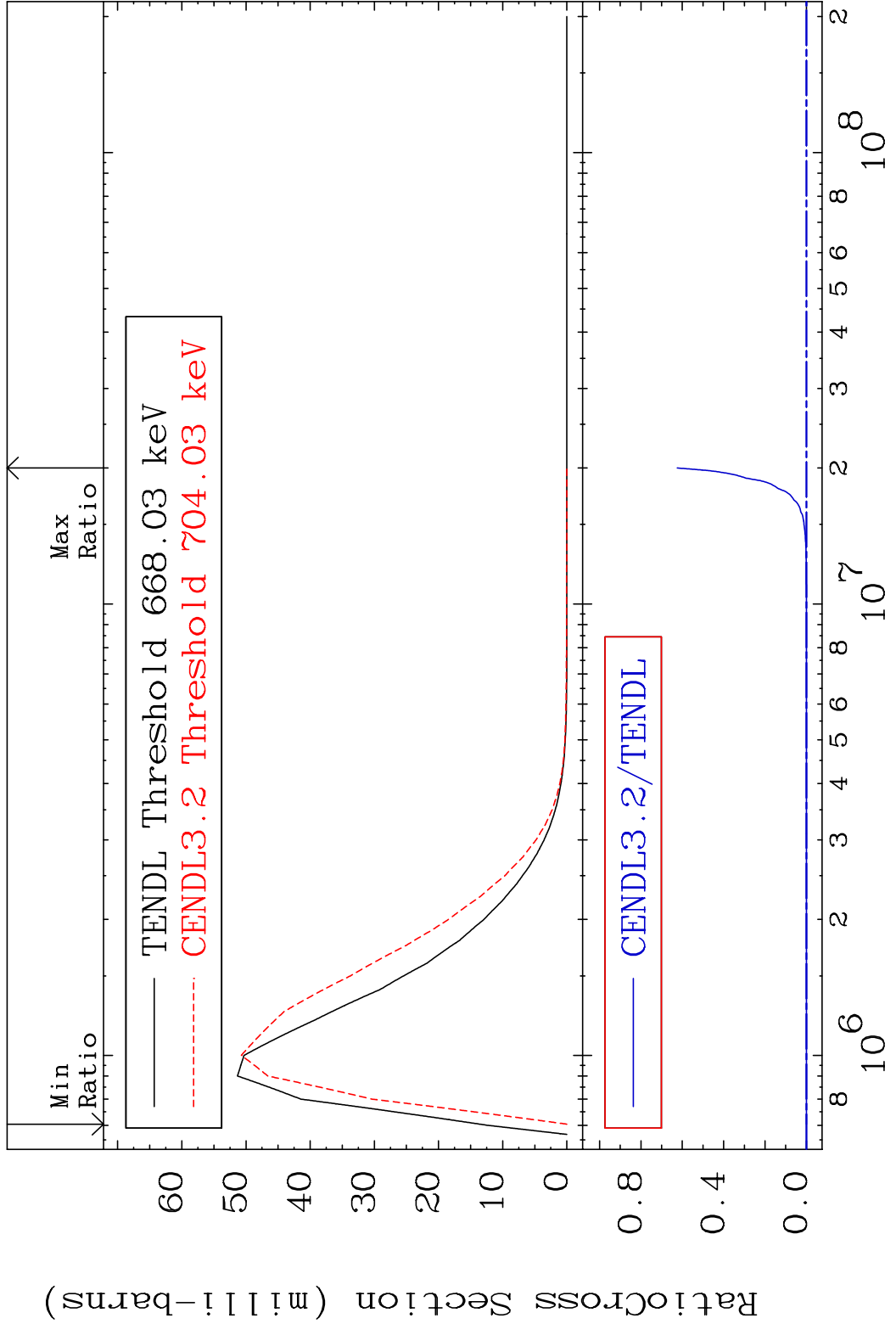
MAT 4446 MT= 70 (n, n') Level 44-Ru-103
 Cross Section -100.0 To 9999. %



MAT 4446 MT= 71 (n, n') Level 44-Ru-103
 Cross Section -100.0 To 9999. %



MAT 4446 MT= 72 (n, n') Level 44-Ru-103
 Cross Section -100.0 To 9999. %

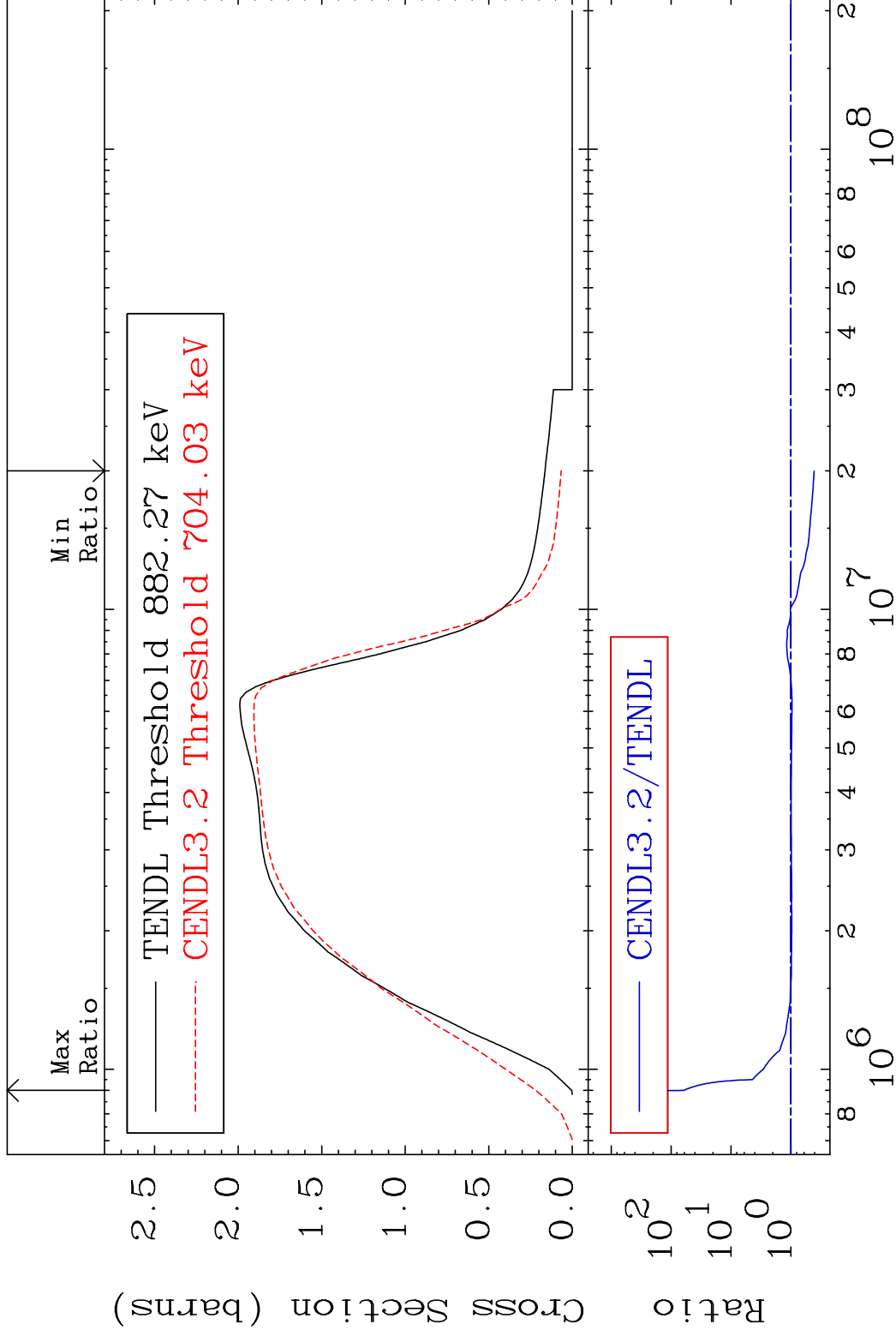


MAT 4446

(n,n') Continuum

44-Ru-103

Cross Section -59.16 To 6057. %



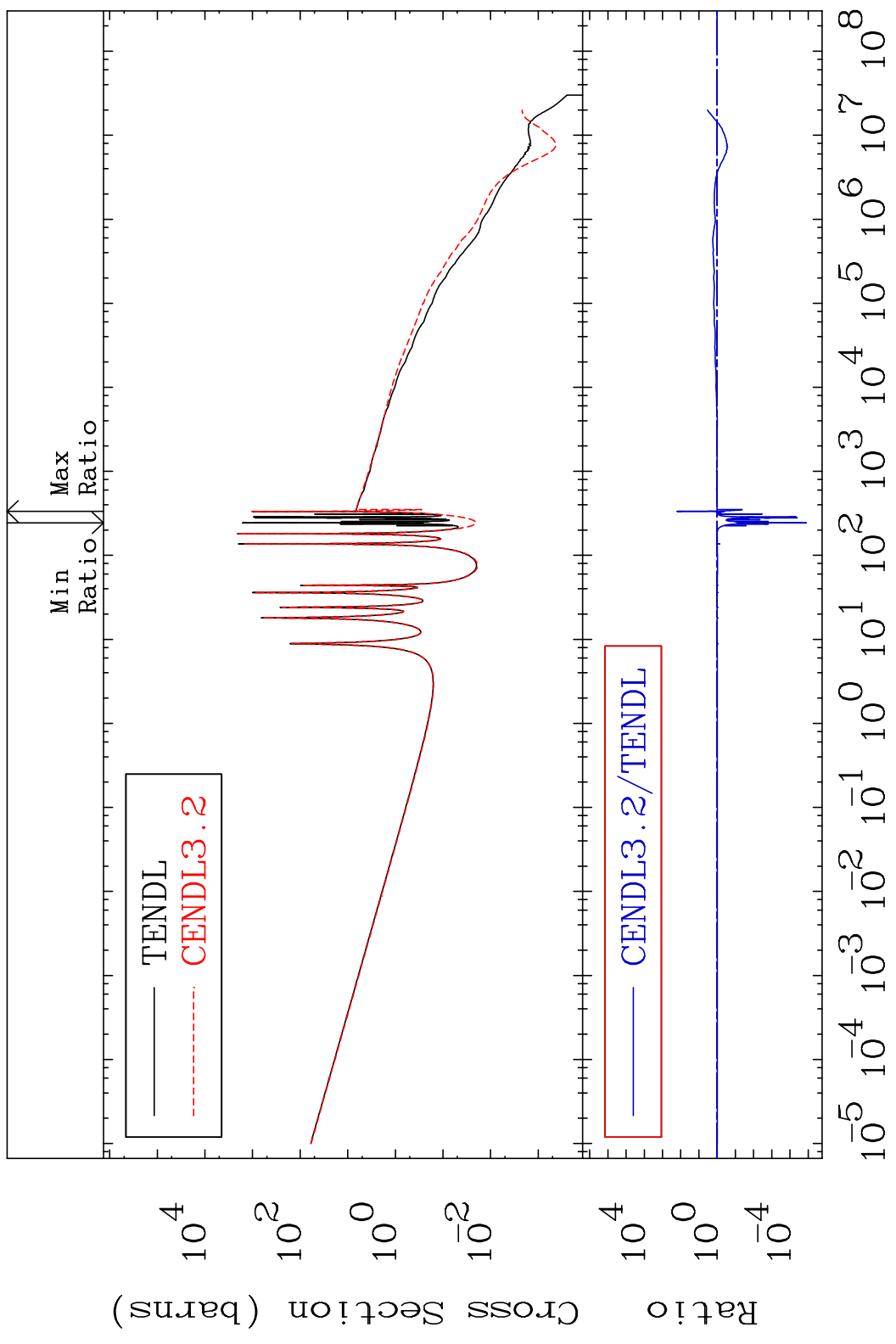
30

Incident Energy (eV)

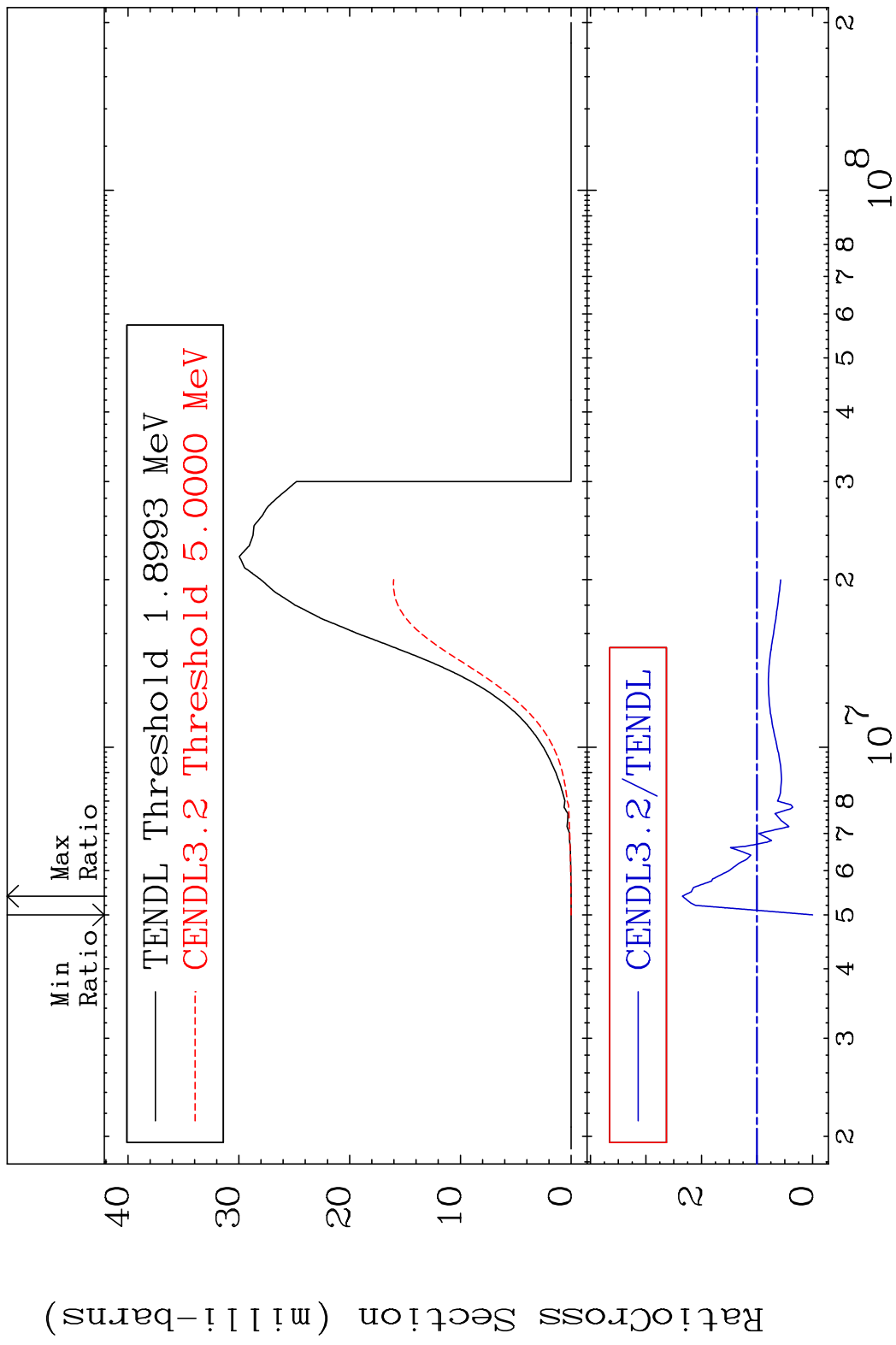
44-Ru-103

MAT 4446

(n, γ)
Cross Section -100.0 To 9999. %
44-Ru-103



MAT 4446 (n,p) 44-Ru-103
 Cross Section -100.0 To 134.5 %

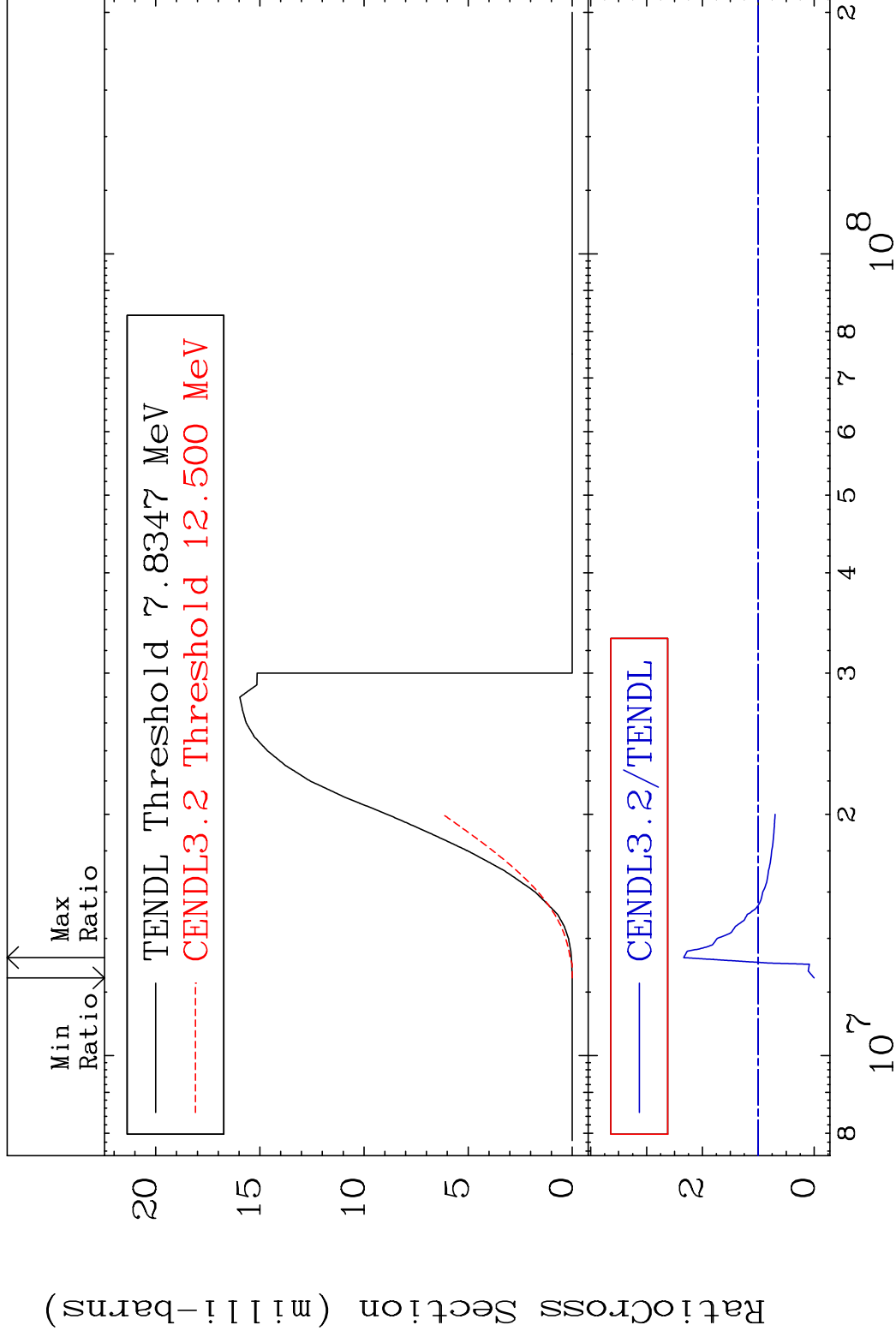


MAT 4446

(n, d)

44-Ru-103

Cross Section -100.0 To 133.6 %



33

Incident Energy (eV)

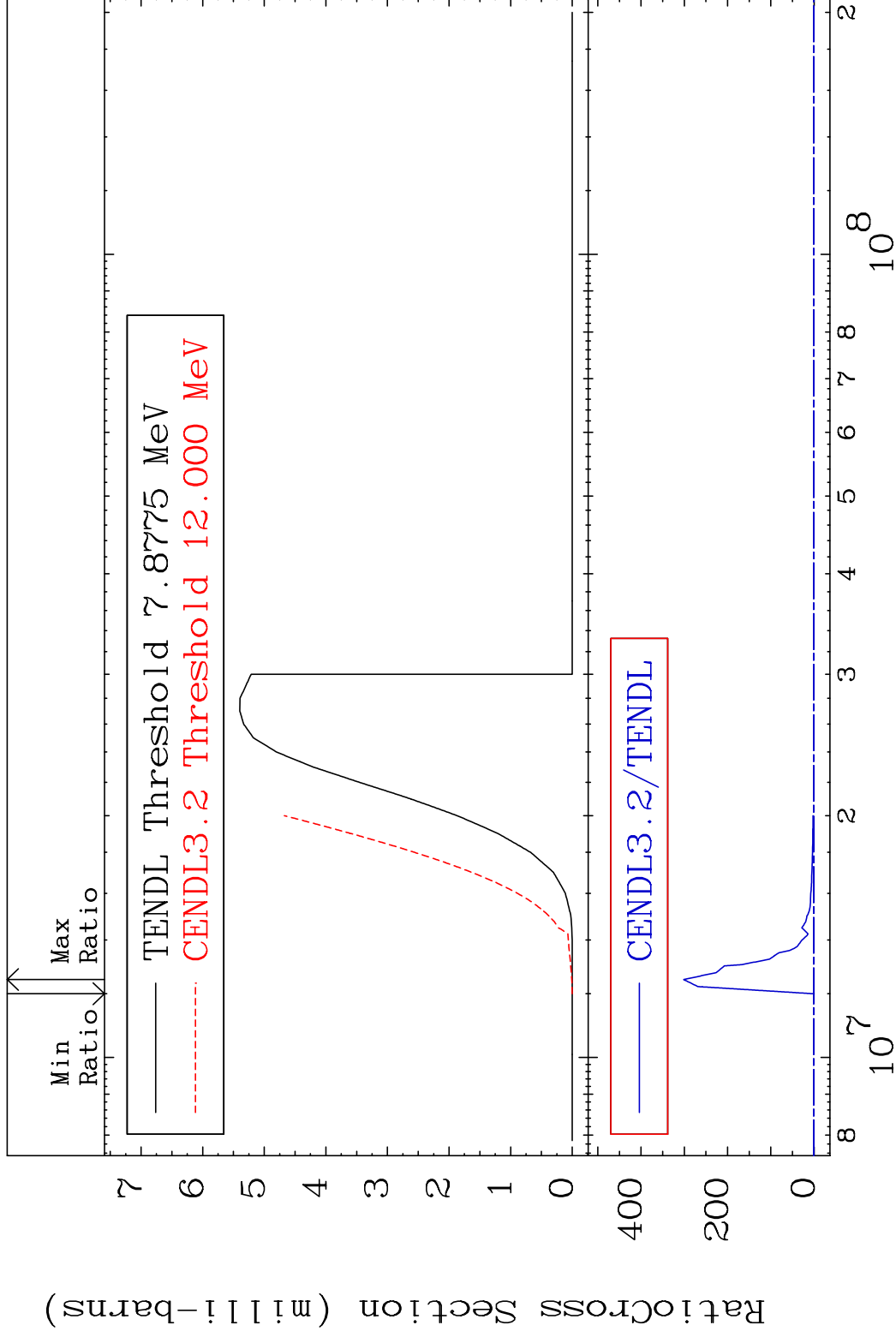
44-Ru-103

MAT 4446

(n, t)

44-Ru-103

Cross Section -100.0 To 9999. %



34

Incident Energy (eV)

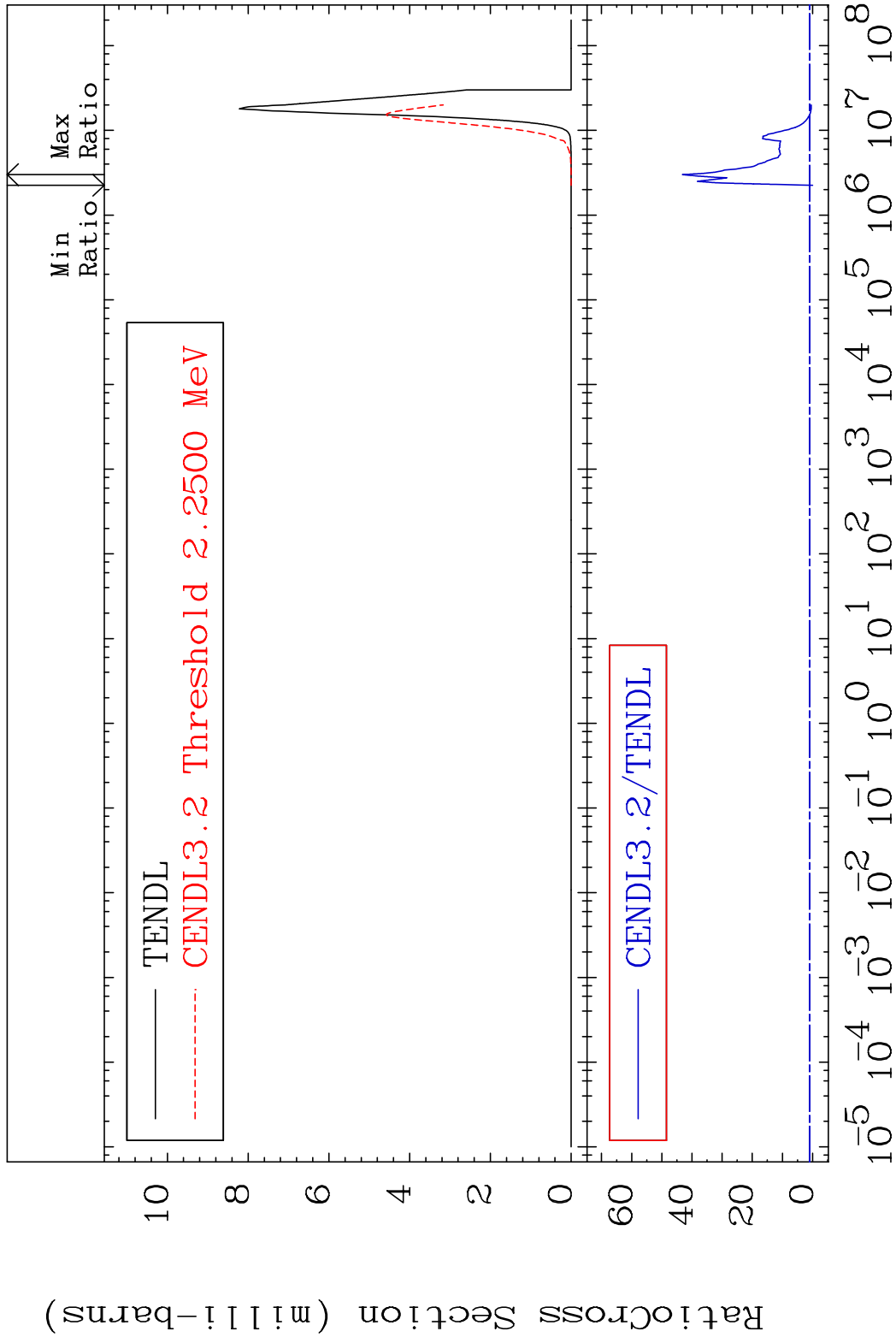
44-Ru-103

MAT 4446

(n, α)

44-Ru-103

Cross Section -100.0 To 4219. %



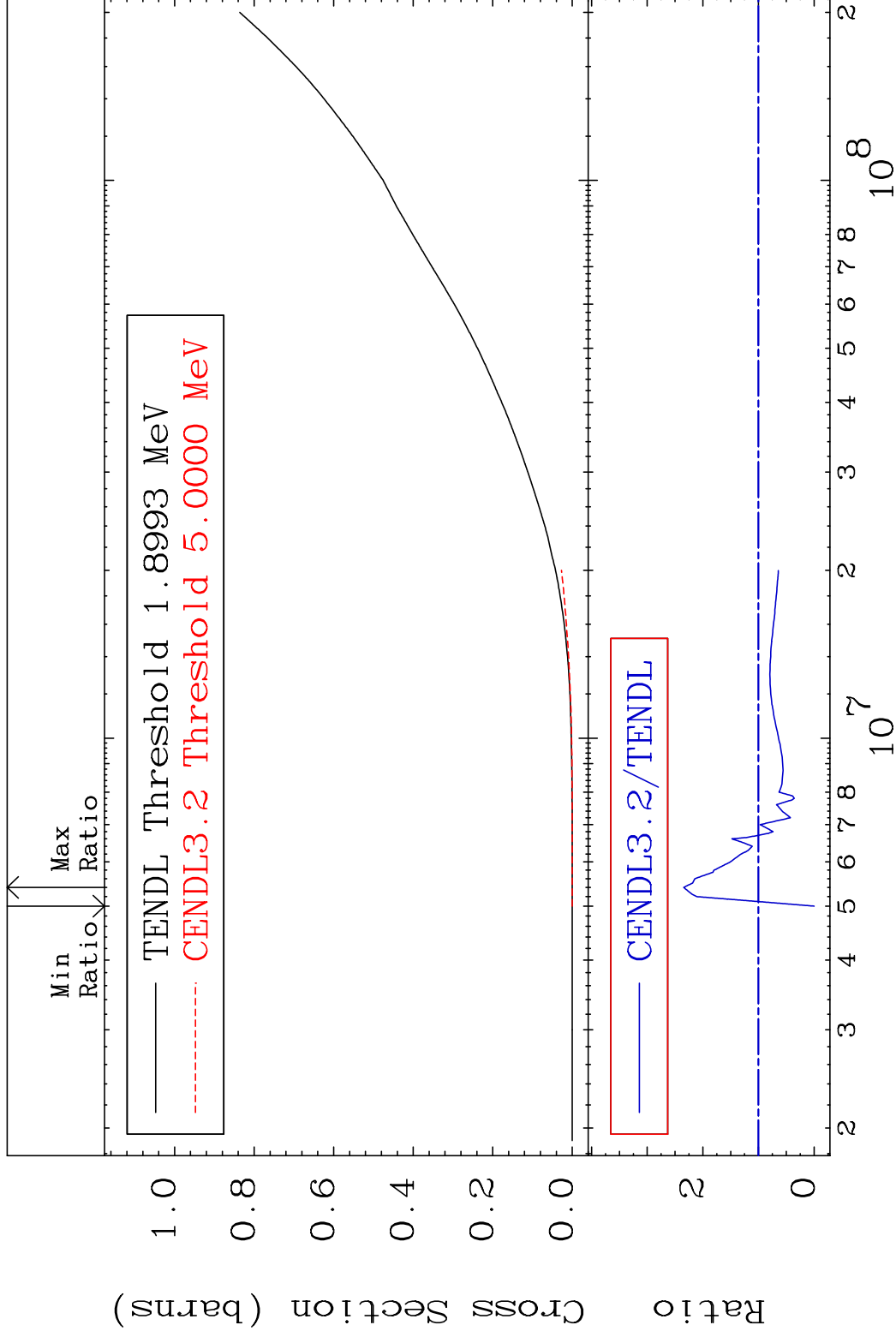
35

Incident Energy (eV)

44-Ru-103

MAT 4446

Hydrogen Production 44-Ru-103
Cross Section -100.0 To 134.5 %



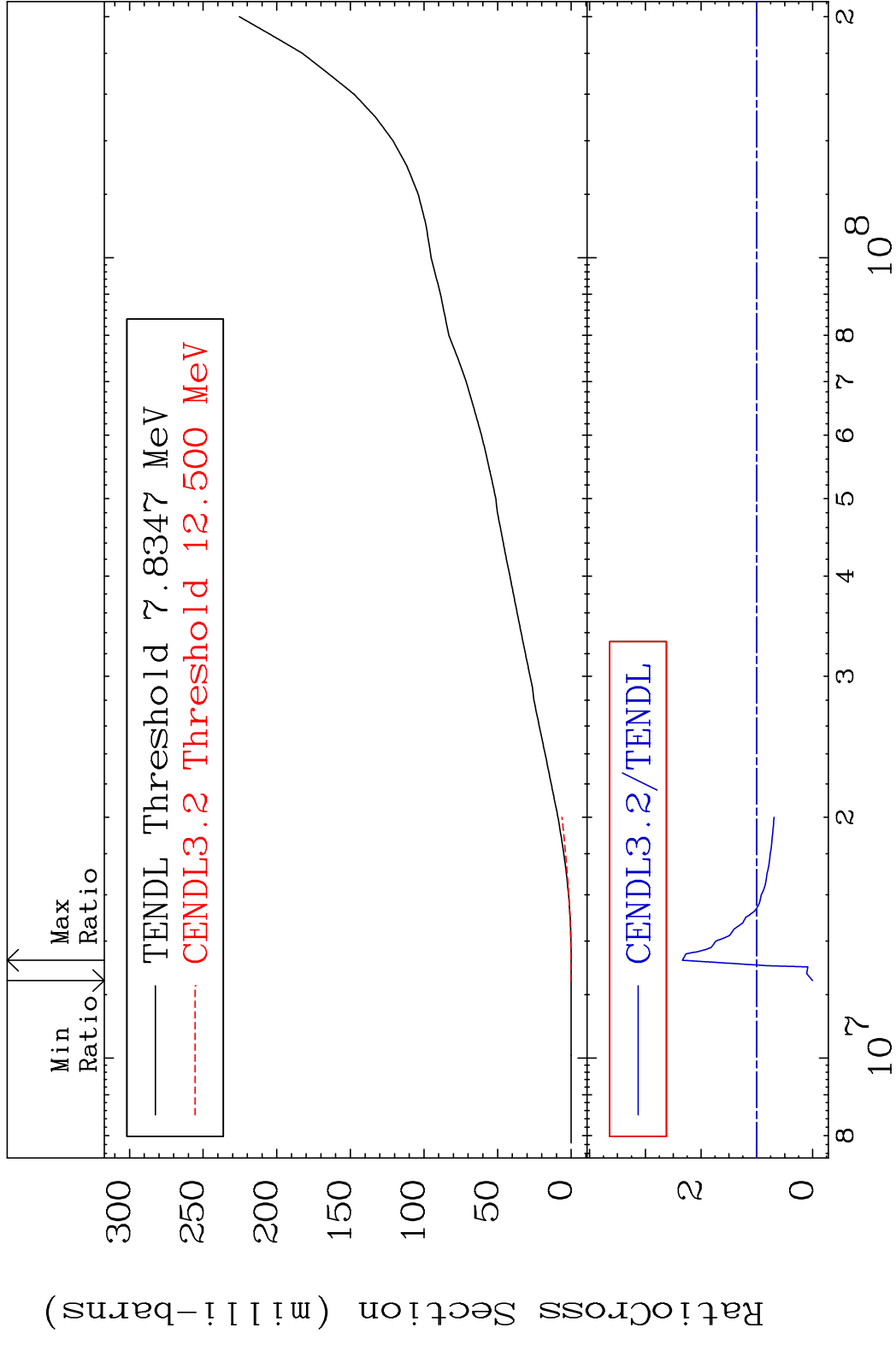
36

Incident Energy (eV)

44-Ru-103

MAT 4446

Deuterium Production 44-Ru-103
Cross Section -100.0 To 133.6 %



37

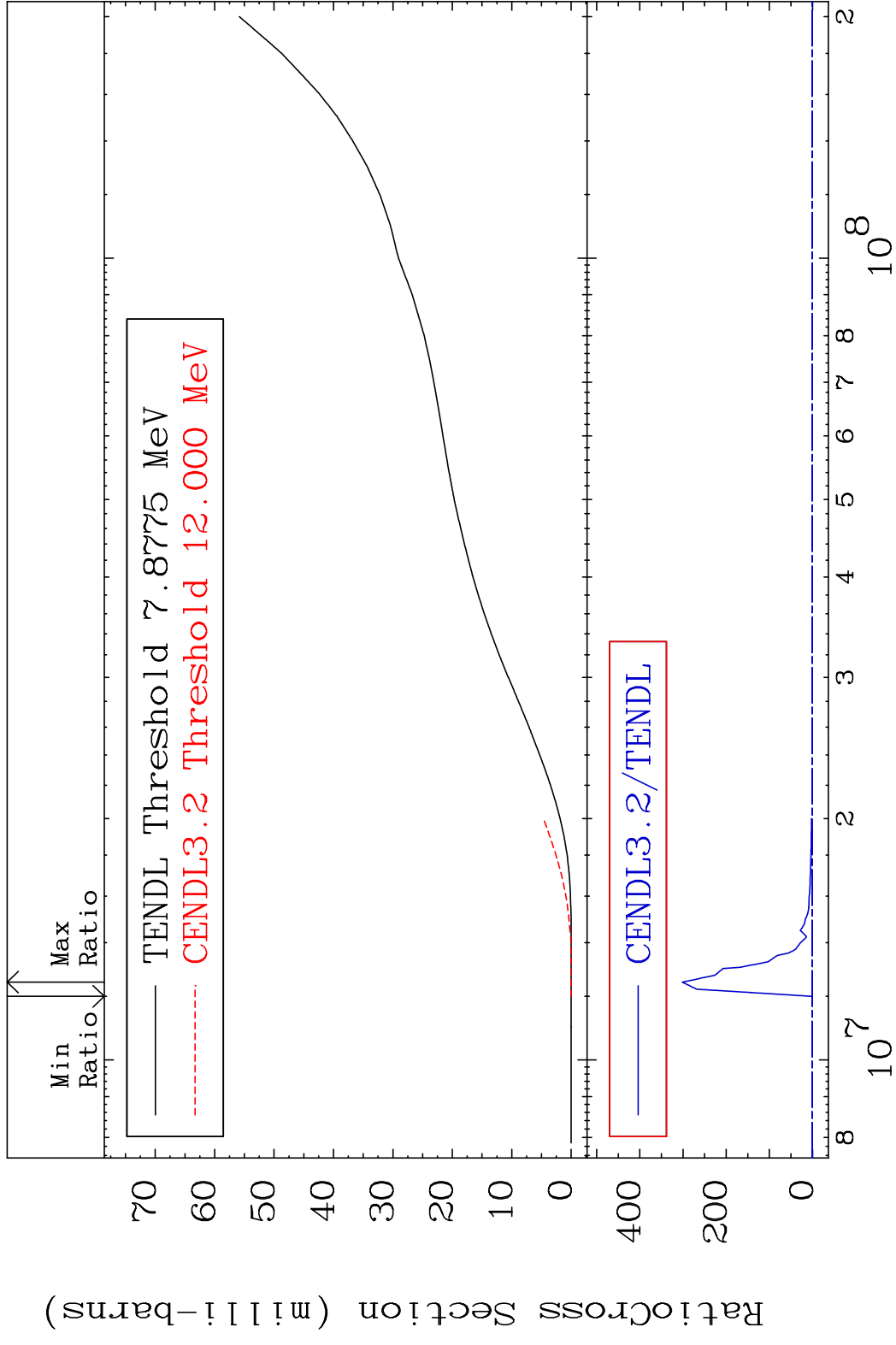
Incident Energy (eV)

44-Ru-103

MAT 4446

Tritium Production 44-Ru-103

Cross Section -100.0 To 9999. %

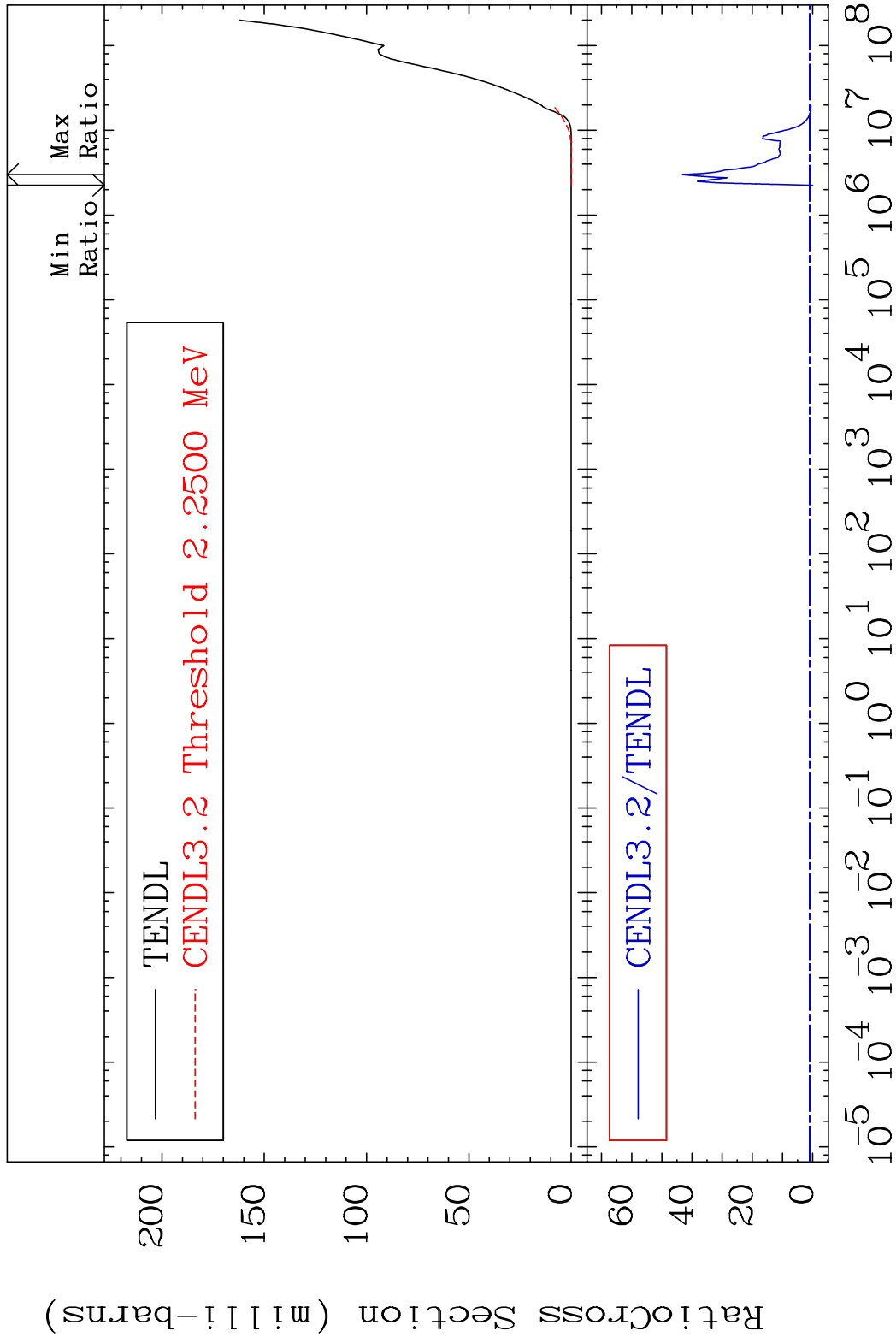


MAT 4446

He-4 Production

44-Ru-103

Cross Section -100.0 To 4219. %

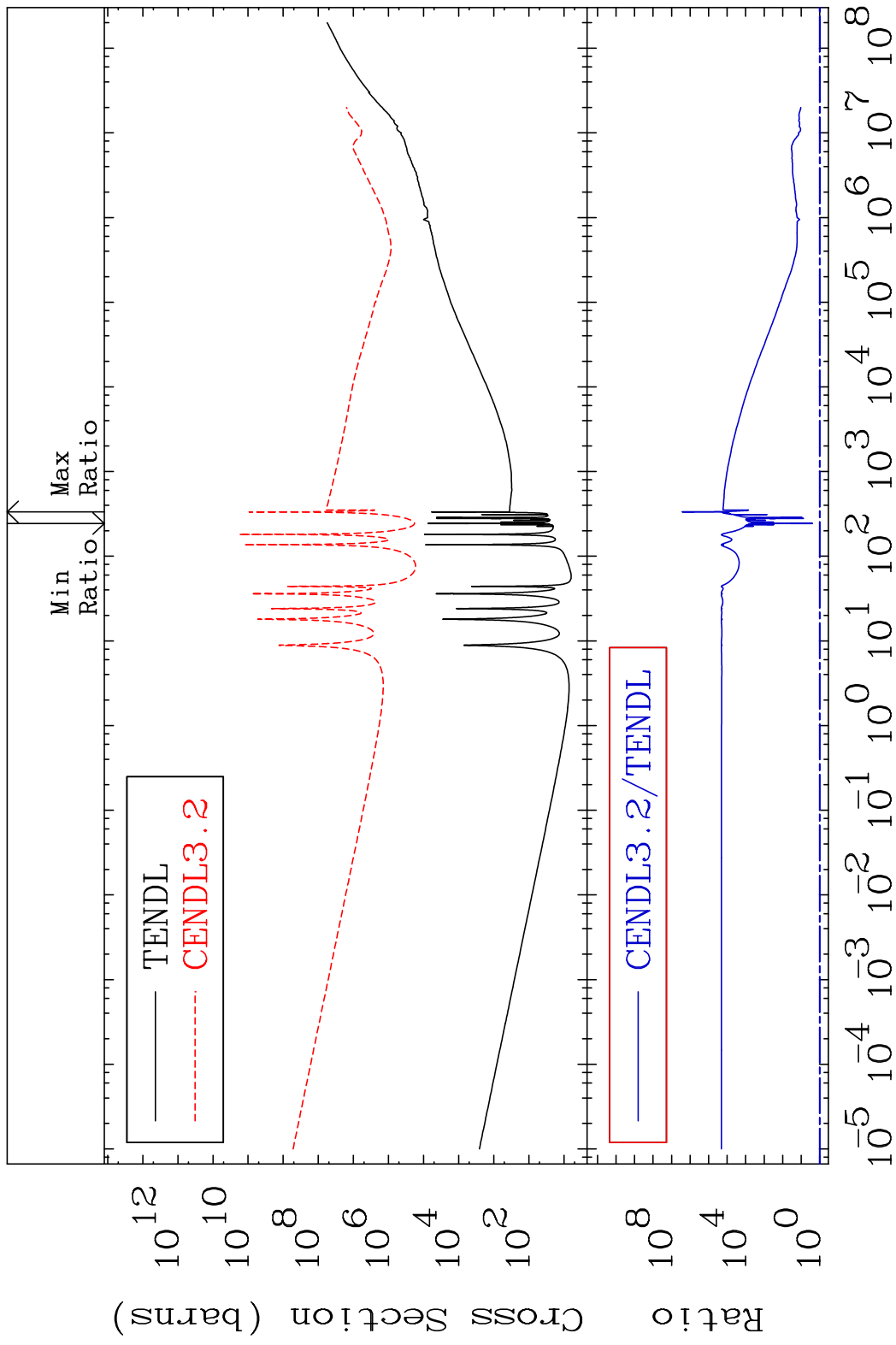


39

Incident Energy (eV)

44-Ru-103

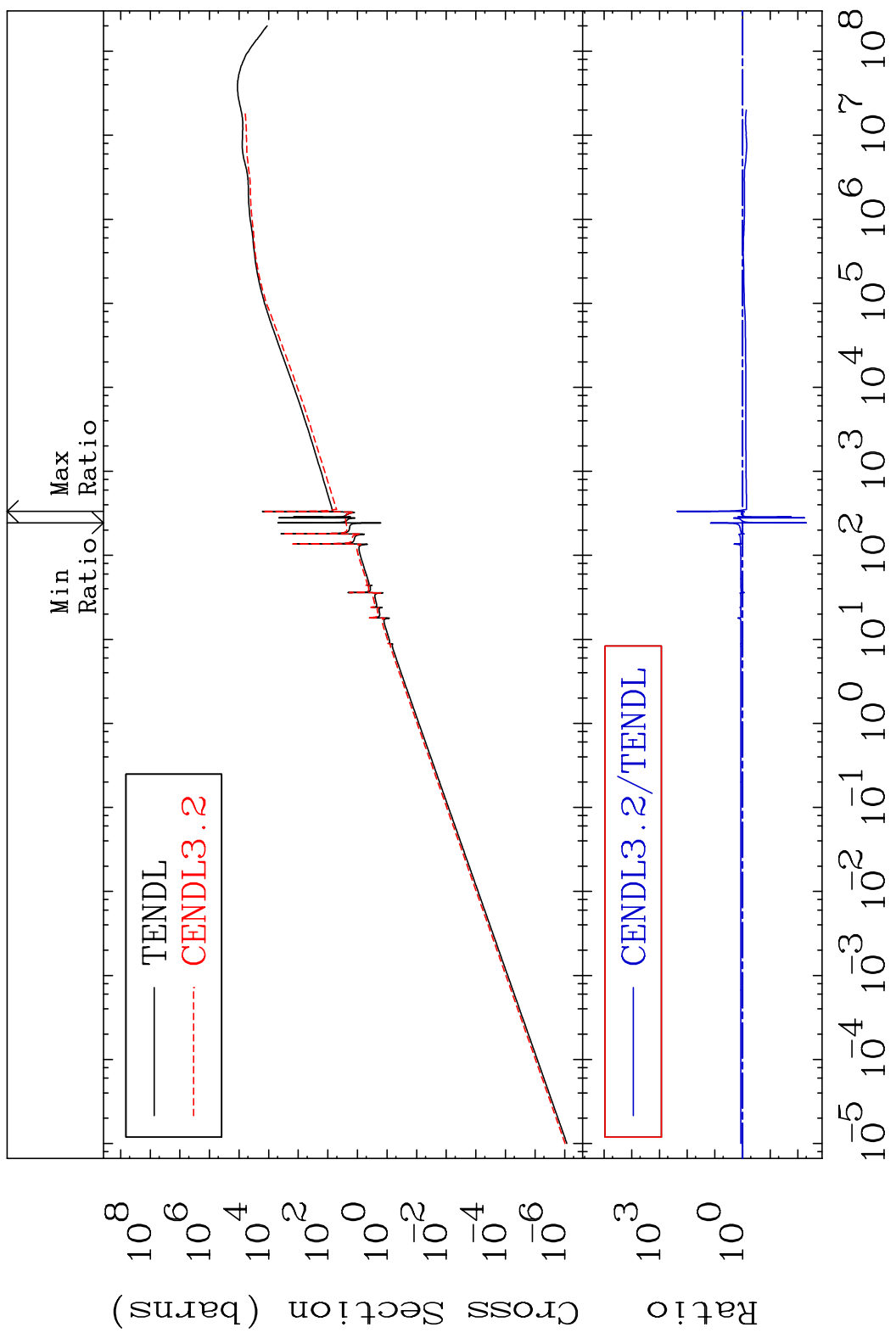
MAT 4446 Kerma total (eV-barns) 44-Ru-103
 Cross Section 143.1 To 9999. %



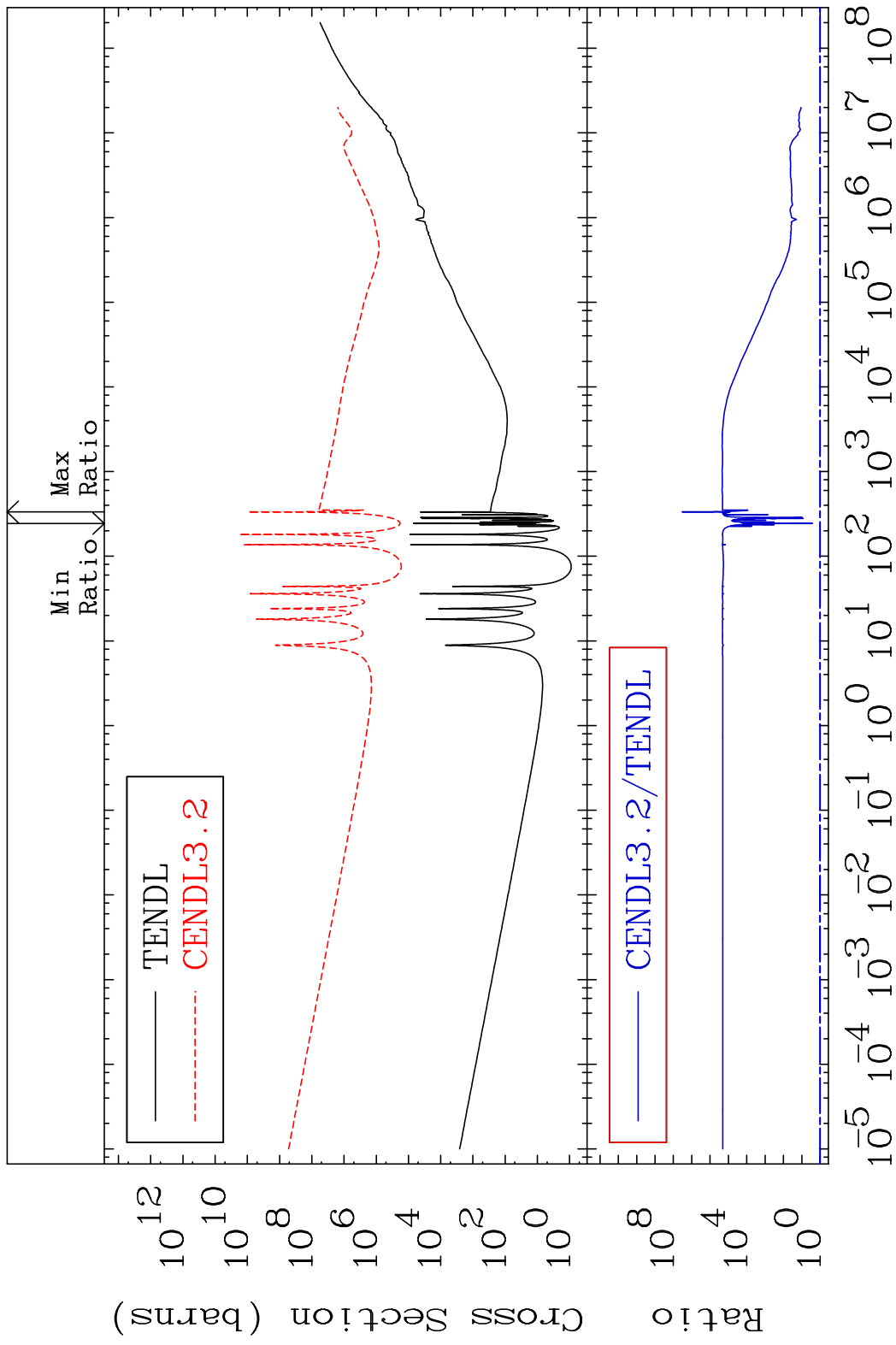
40 Incident Energy (eV) 44-Ru-103

MAT 4446

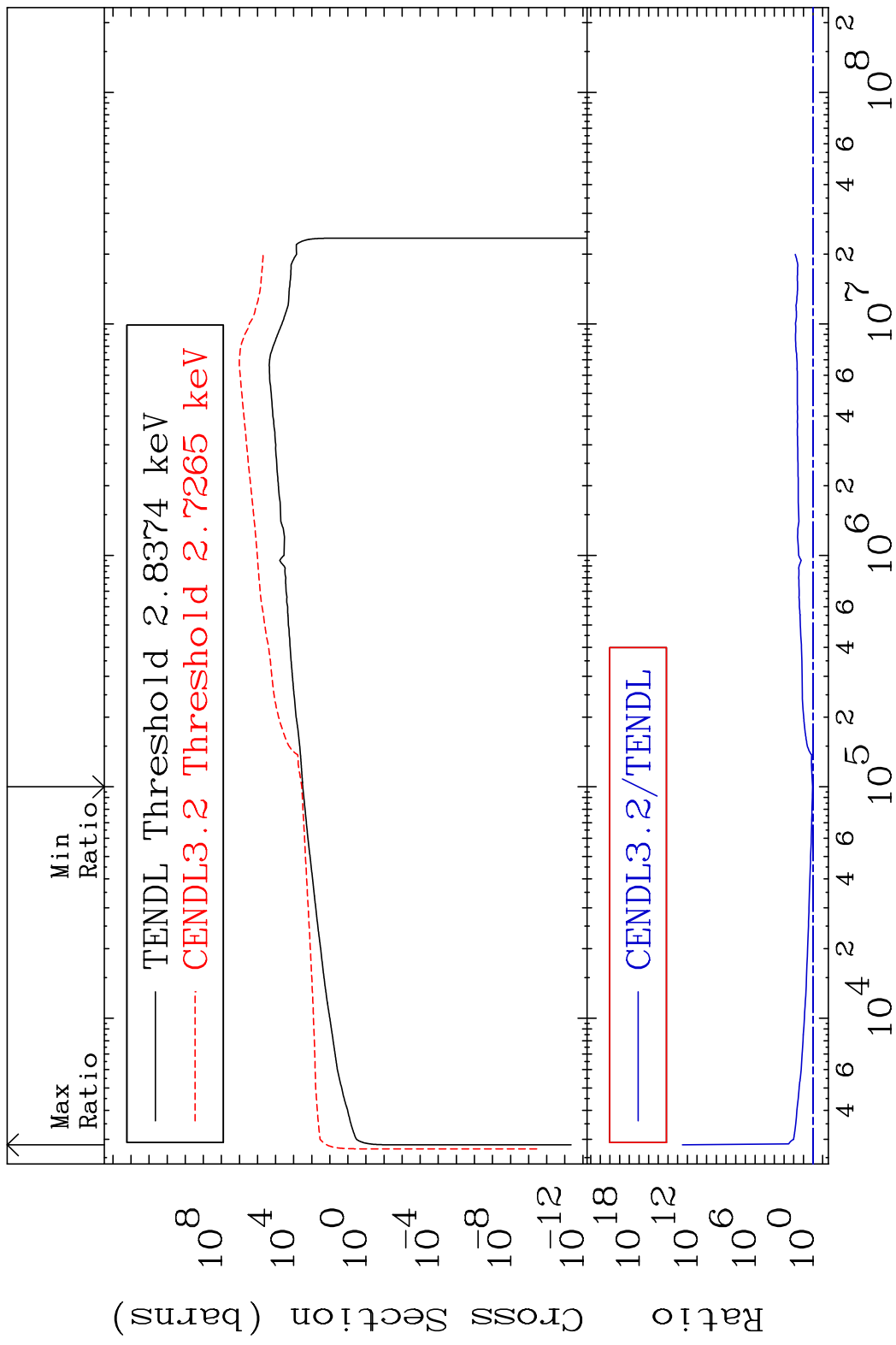
Kerma elastic Cross Section -99.51 To 9999. %
44-Ru-103



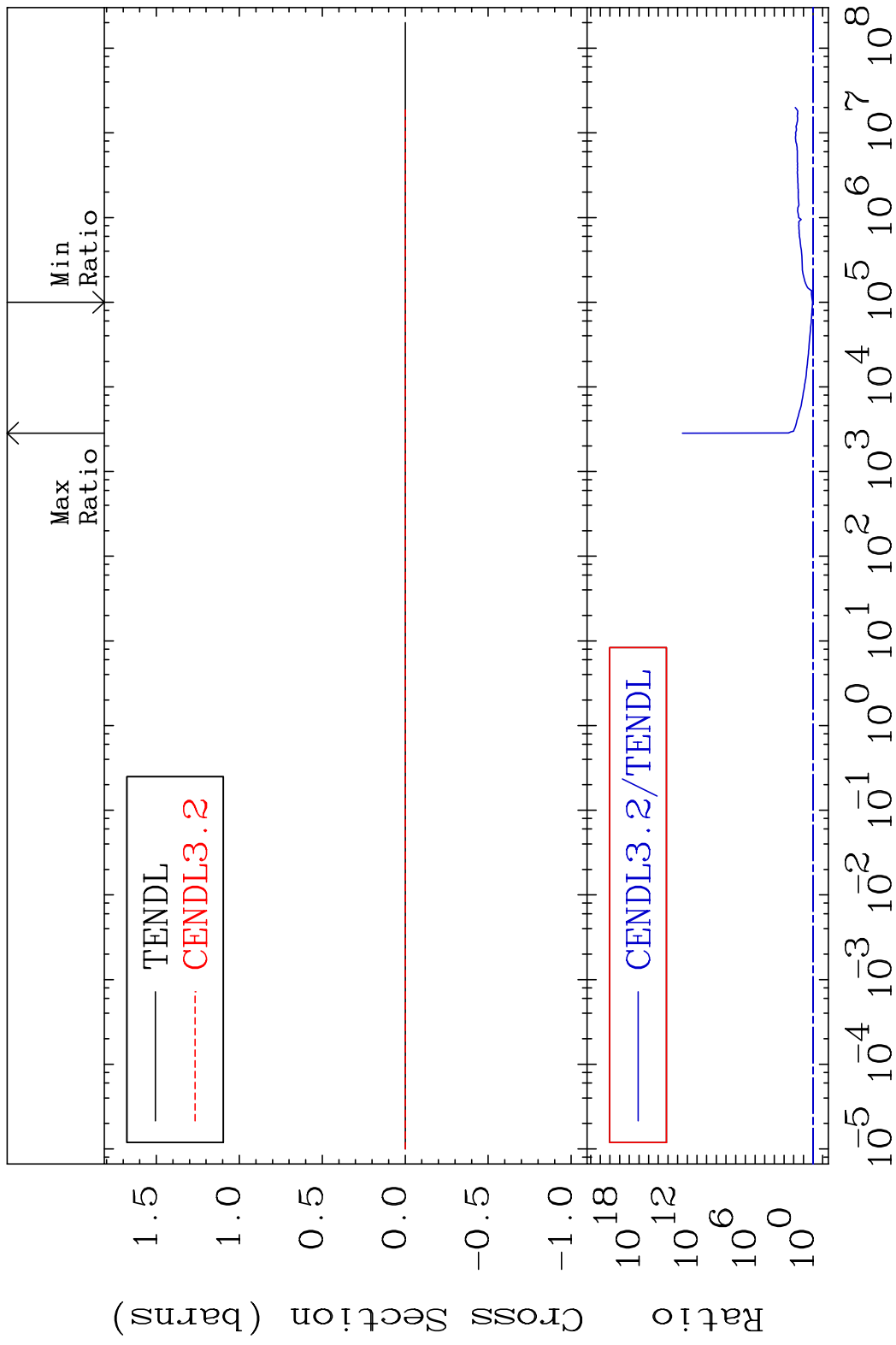
MAT 4446 Kerma non-elastic (all but mt2) 44-Ru-103
 Cross Section 160.1 To 9999. %



MAT 4446 Kerma inelastic (mt51-91) 44-Ru-103
 Cross Section 12.68 To 9999. %



MAT 4446 Kerma fission (mt18 or mt19-20-21-38) 44-Ru-103
 Cross Section 12.68 To 9999. %

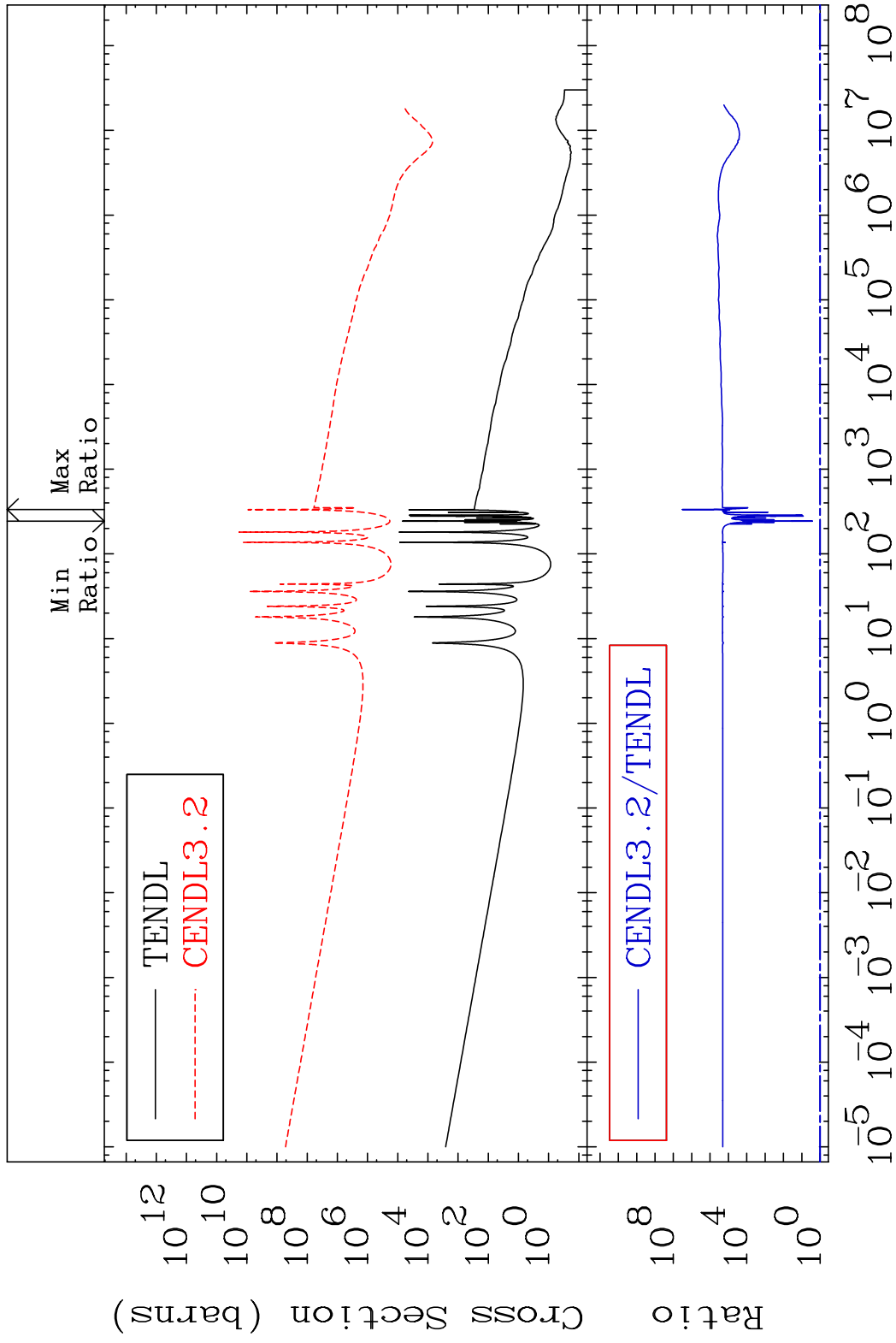


MAT 4446

Kerma capture (mt102)

44-Ru-103

Cross Section 160.1 To 9999. %

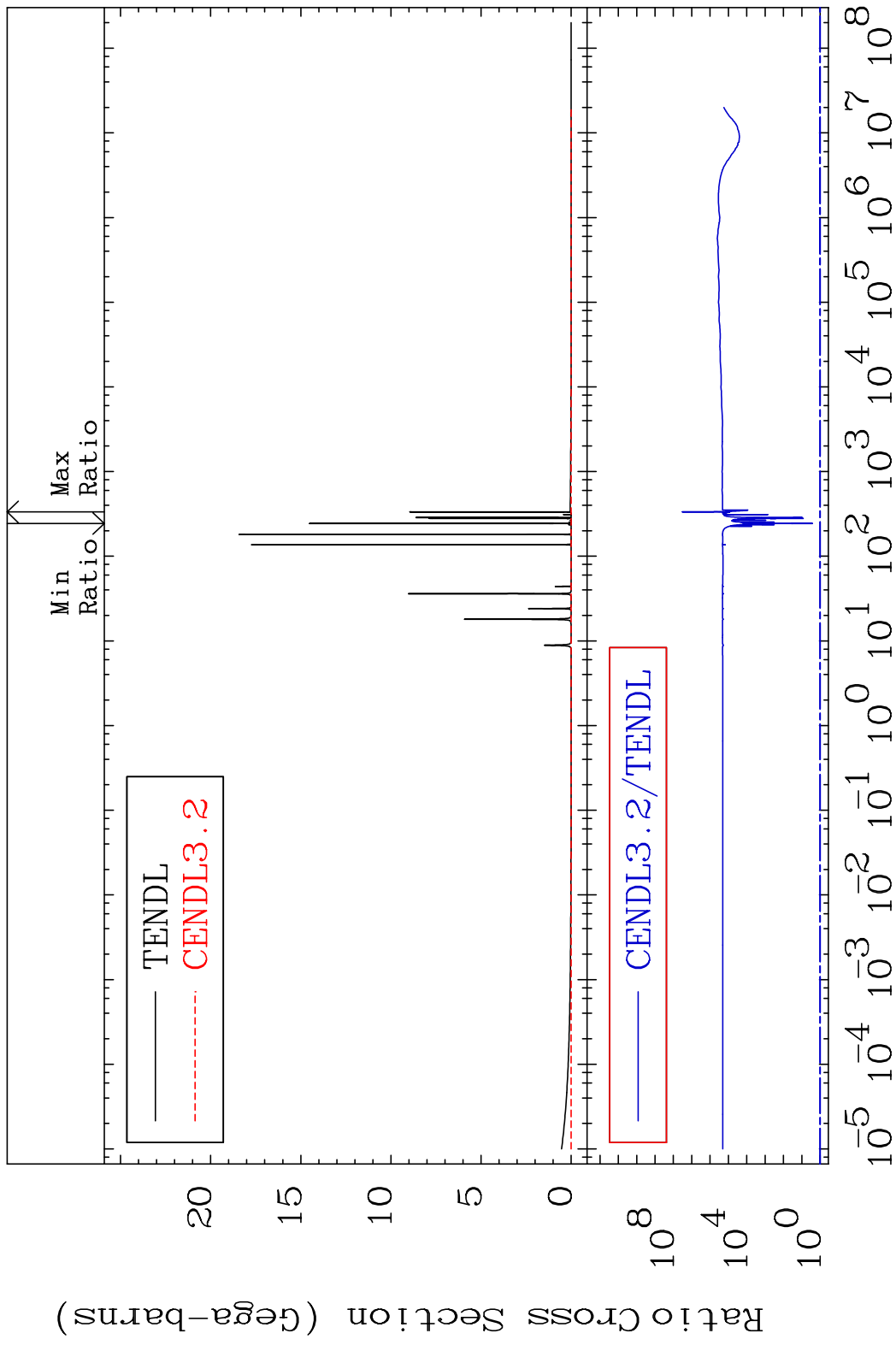


45

Incident Energy (eV)

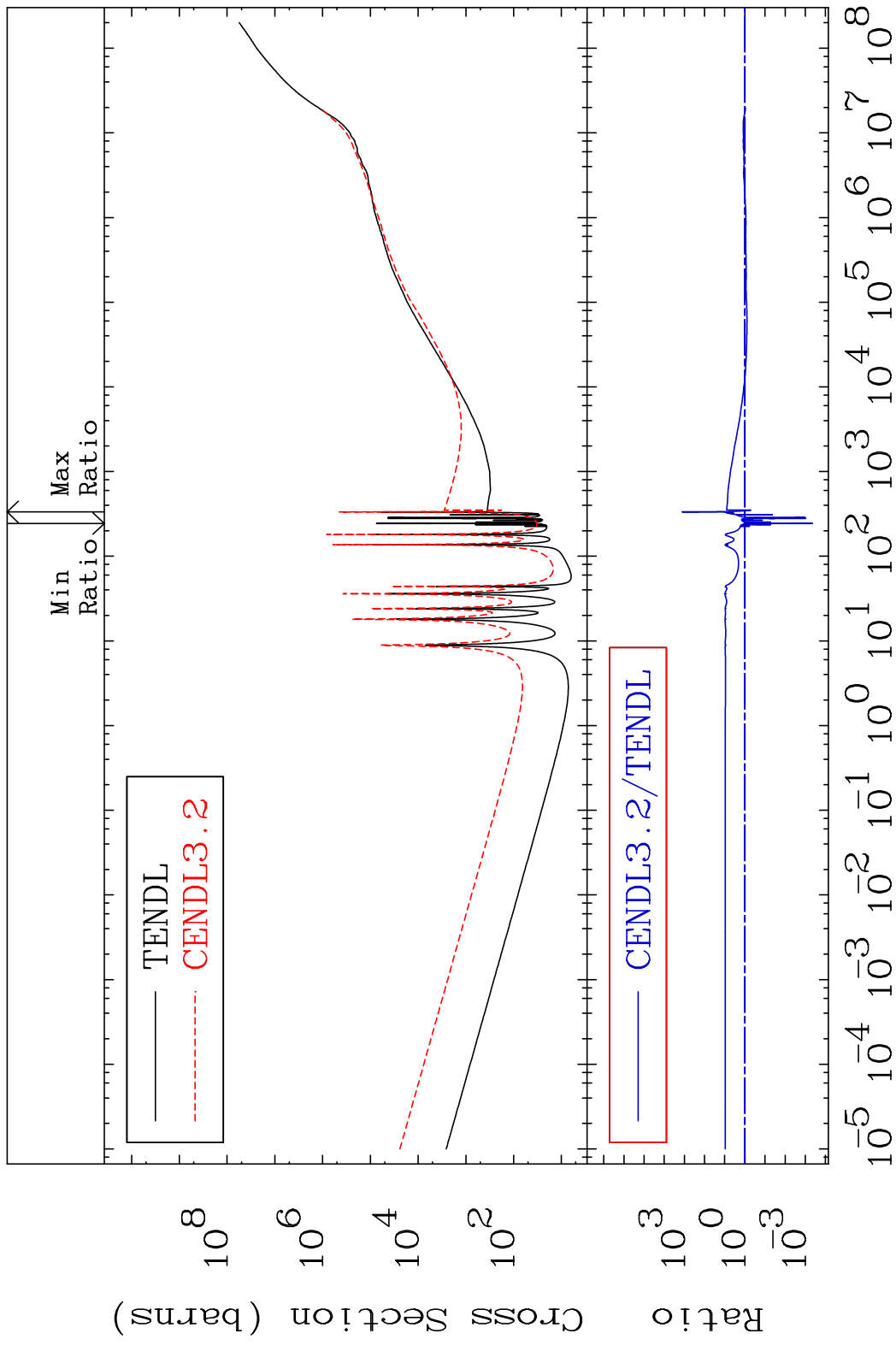
44-Ru-103

MAT 4446 Total photon (eV-barns) 44-Ru-103
 Cross Section 160.1 To 9999. %

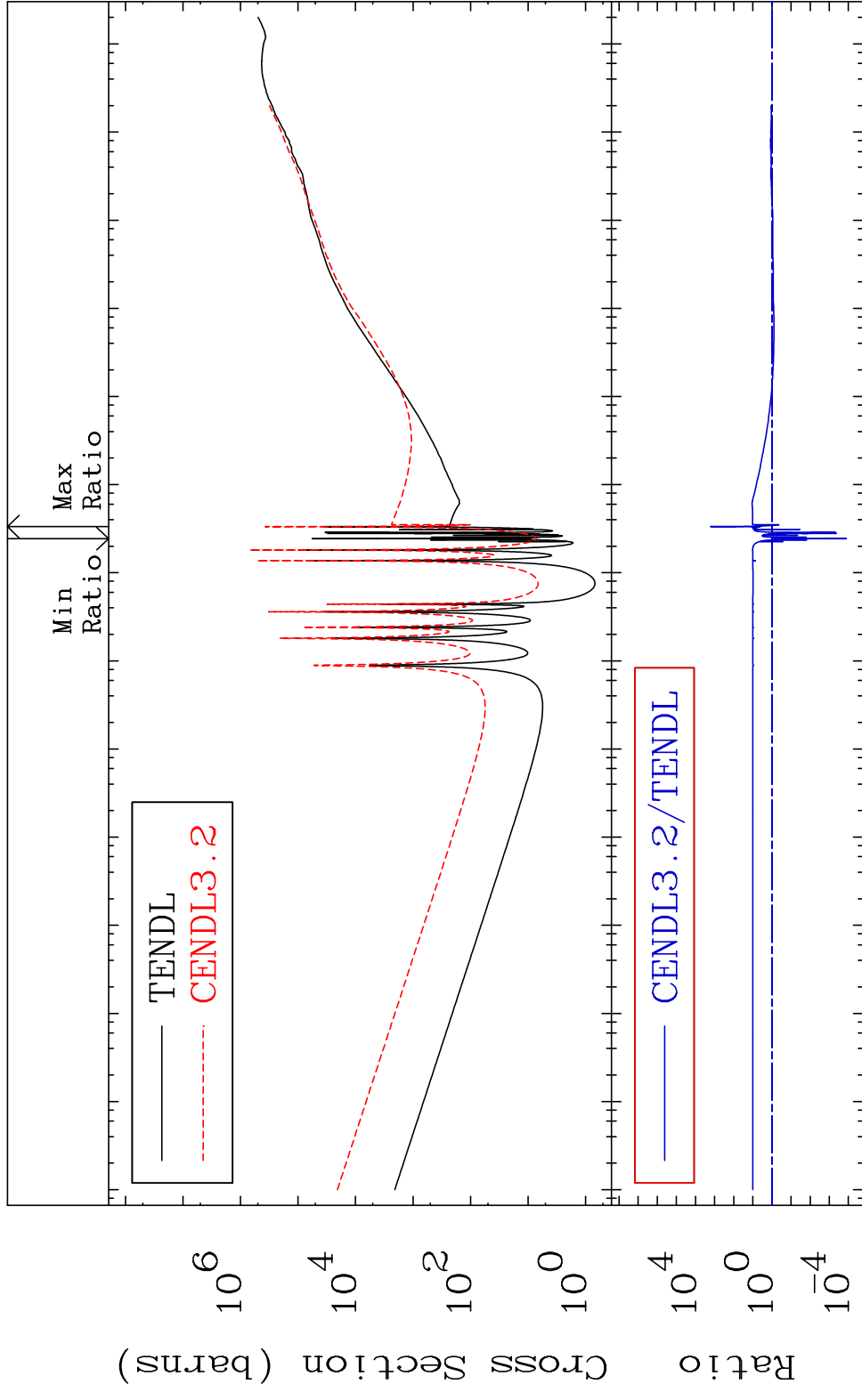


46 Incident Energy (eV) 44-Ru-103

MAT 4446 Total kinematic kerma (high limit) 44-Ru-103
 Cross Section -99.96 To 9999. %



MAT 4446 Dpa total (eV-barns) 44-Ru-103
 Cross Section -99.99 To 9999. %

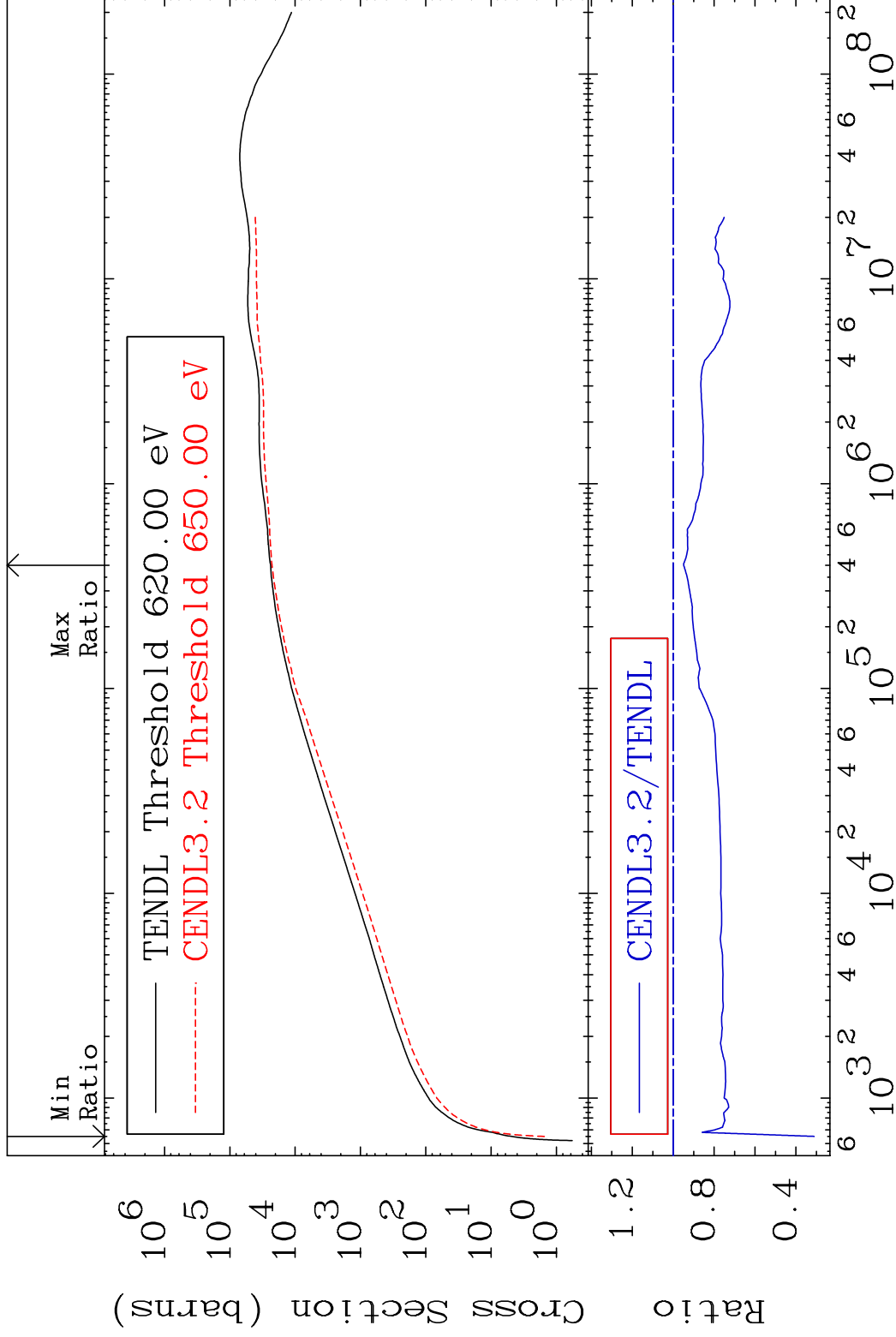


MAT 4446

Dpa elastic (mt2)

44-Ru-103

Cross Section -68.87 To -5.113%

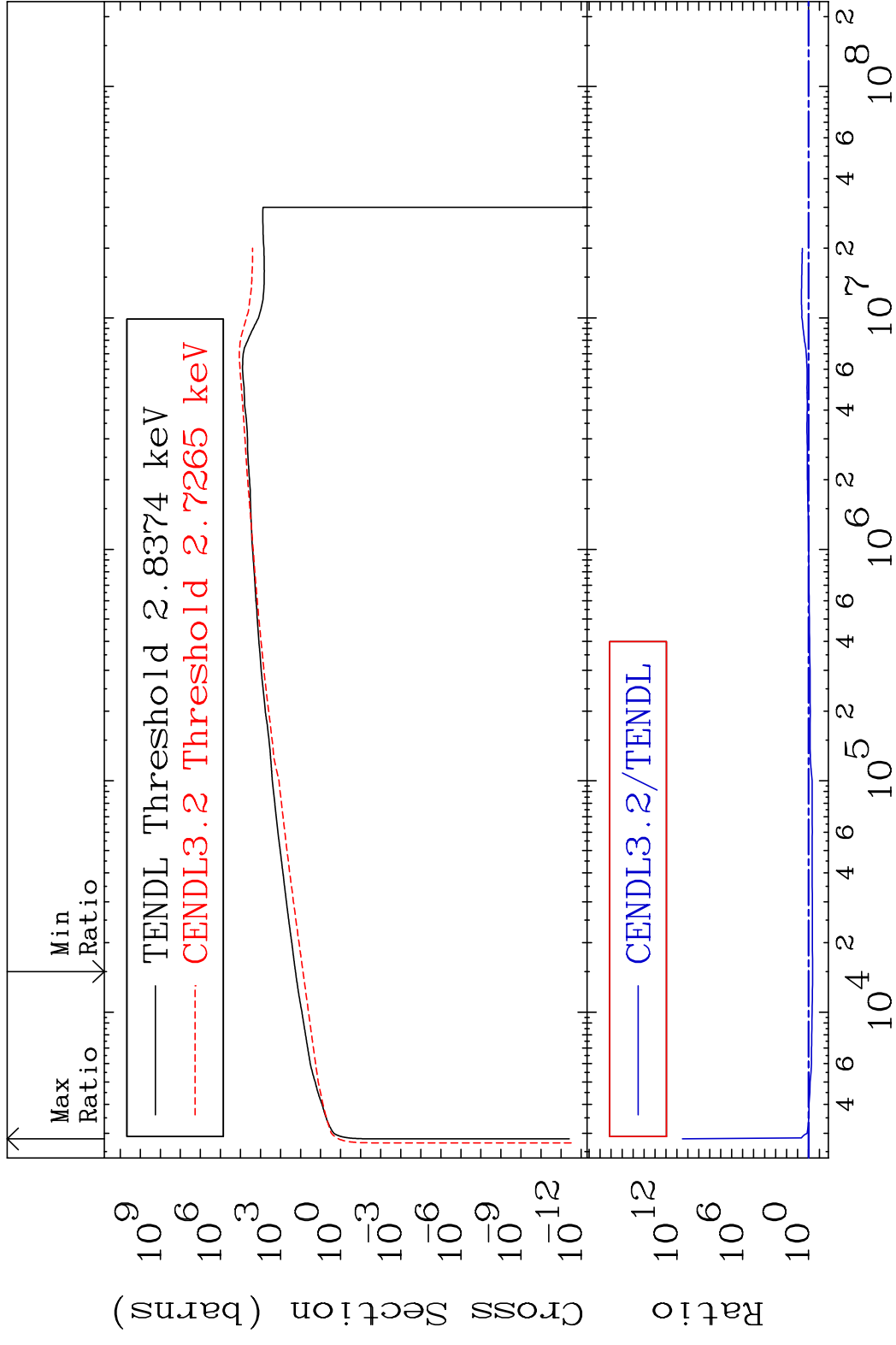


49

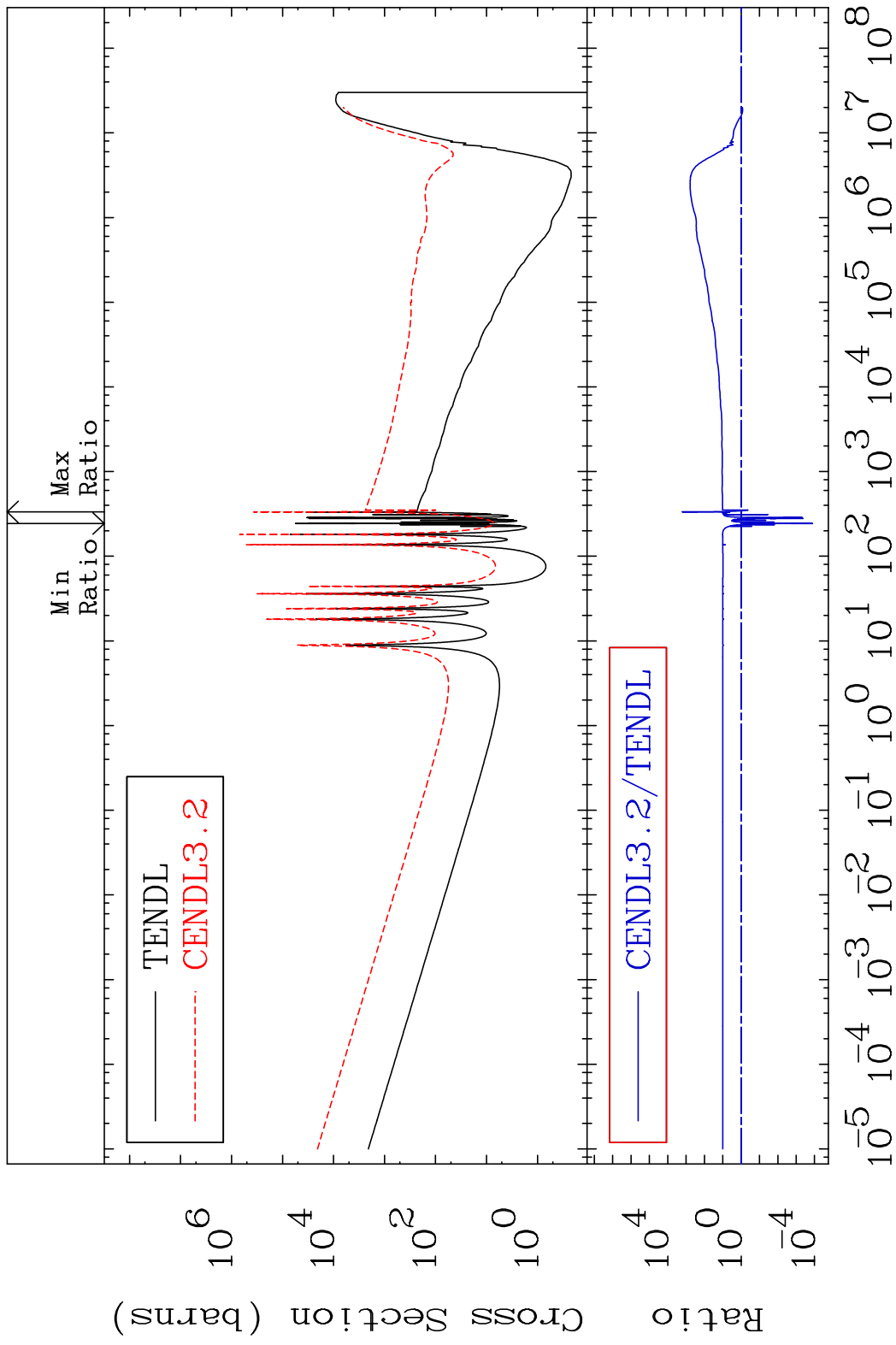
Incident Energy (eV)

44-Ru-103

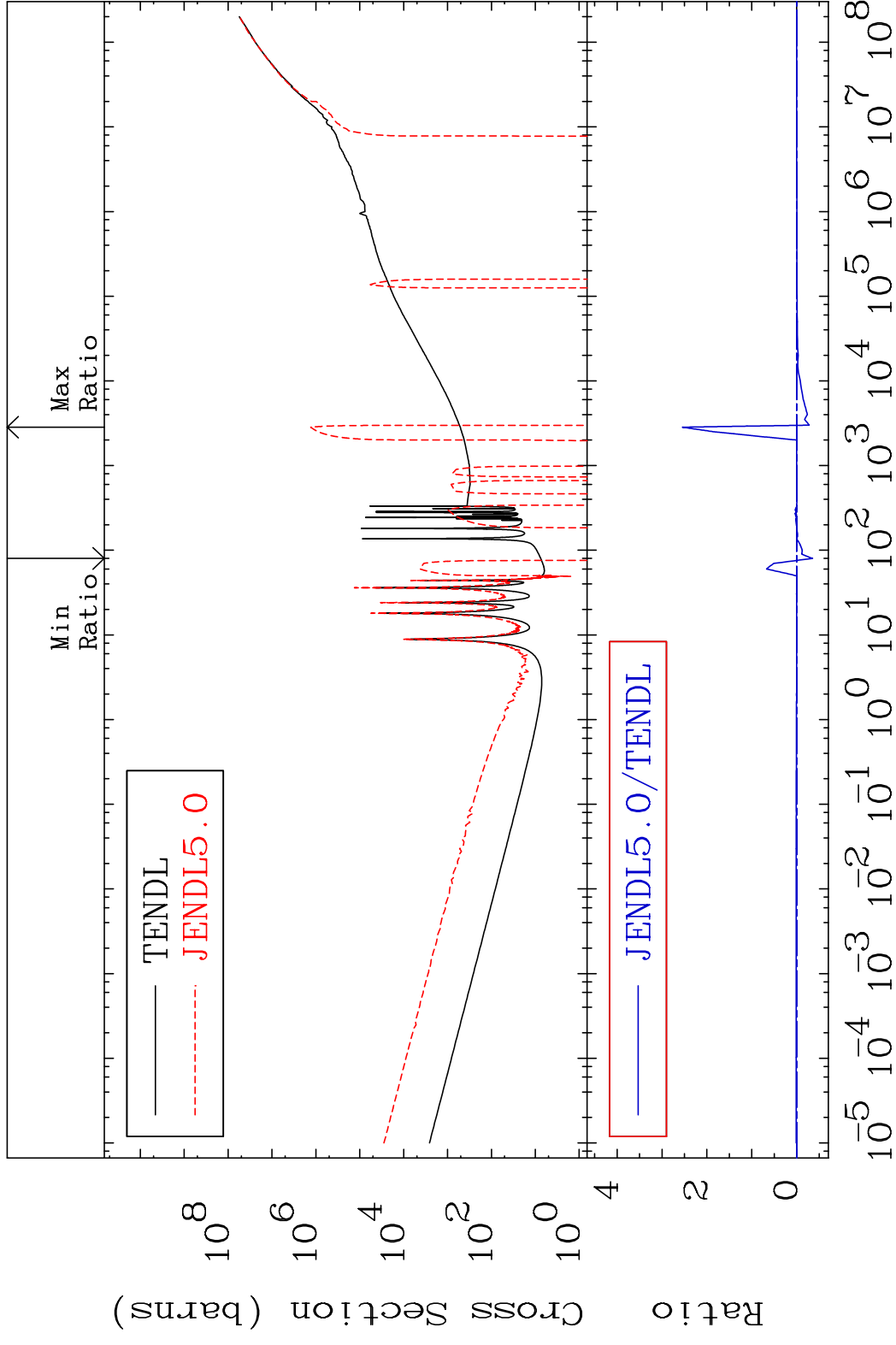
MAT 4446 Dpa inelastic (mt51-91) 44-Ru-103
 Cross Section -57.65 To 9999. %



MAT 4446 Dpa disappearance (mt102 -120) 44-Ru-103
 Cross Section -99.99 To 9999. %



MAT 4446 Kerma total (eV-barns) 44-Ru-103
 Cross Section -9999. To 9999. %

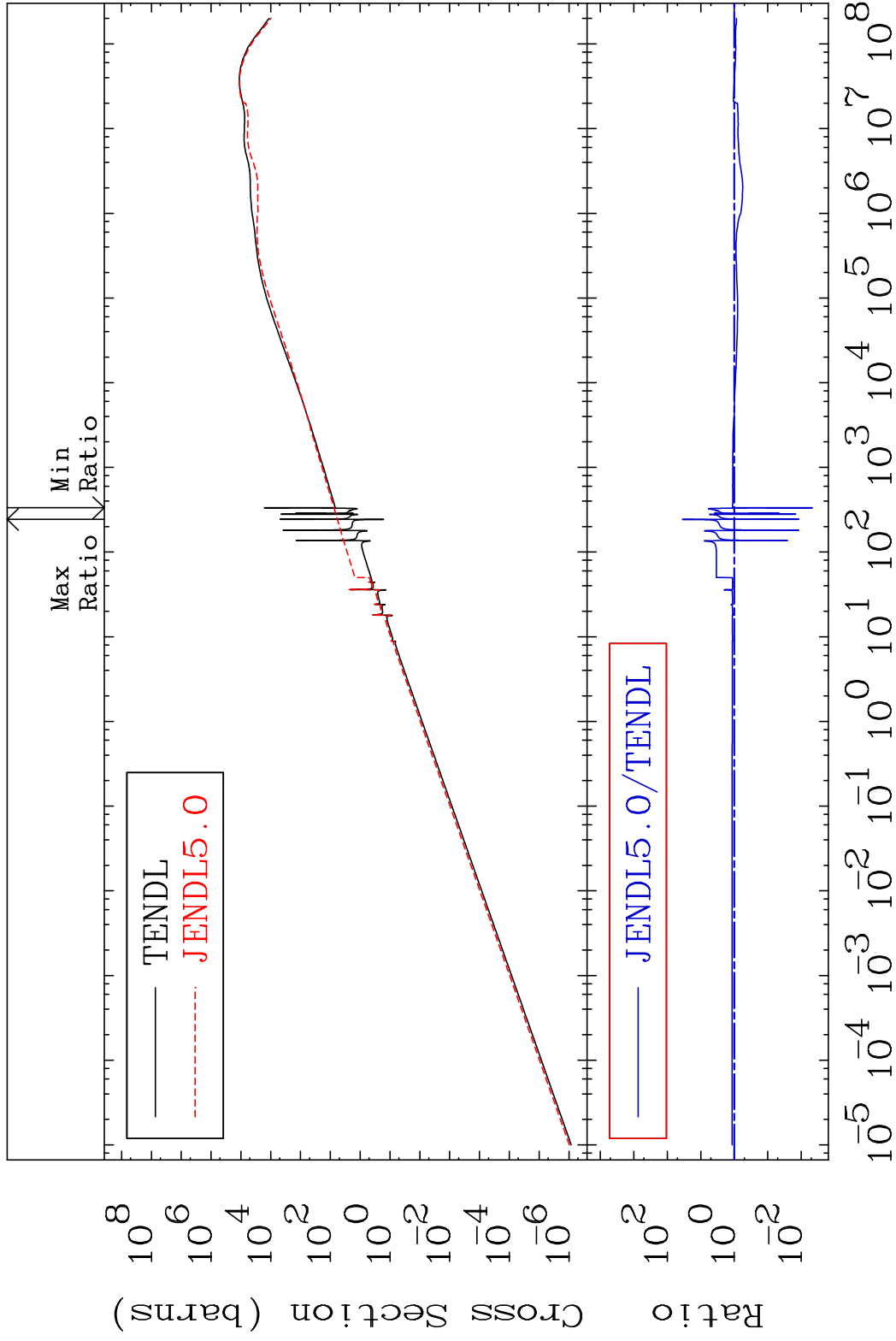


MAT 4446

Kerma elastic

44-Ru-103

Cross Section -99.54 To 3448. %

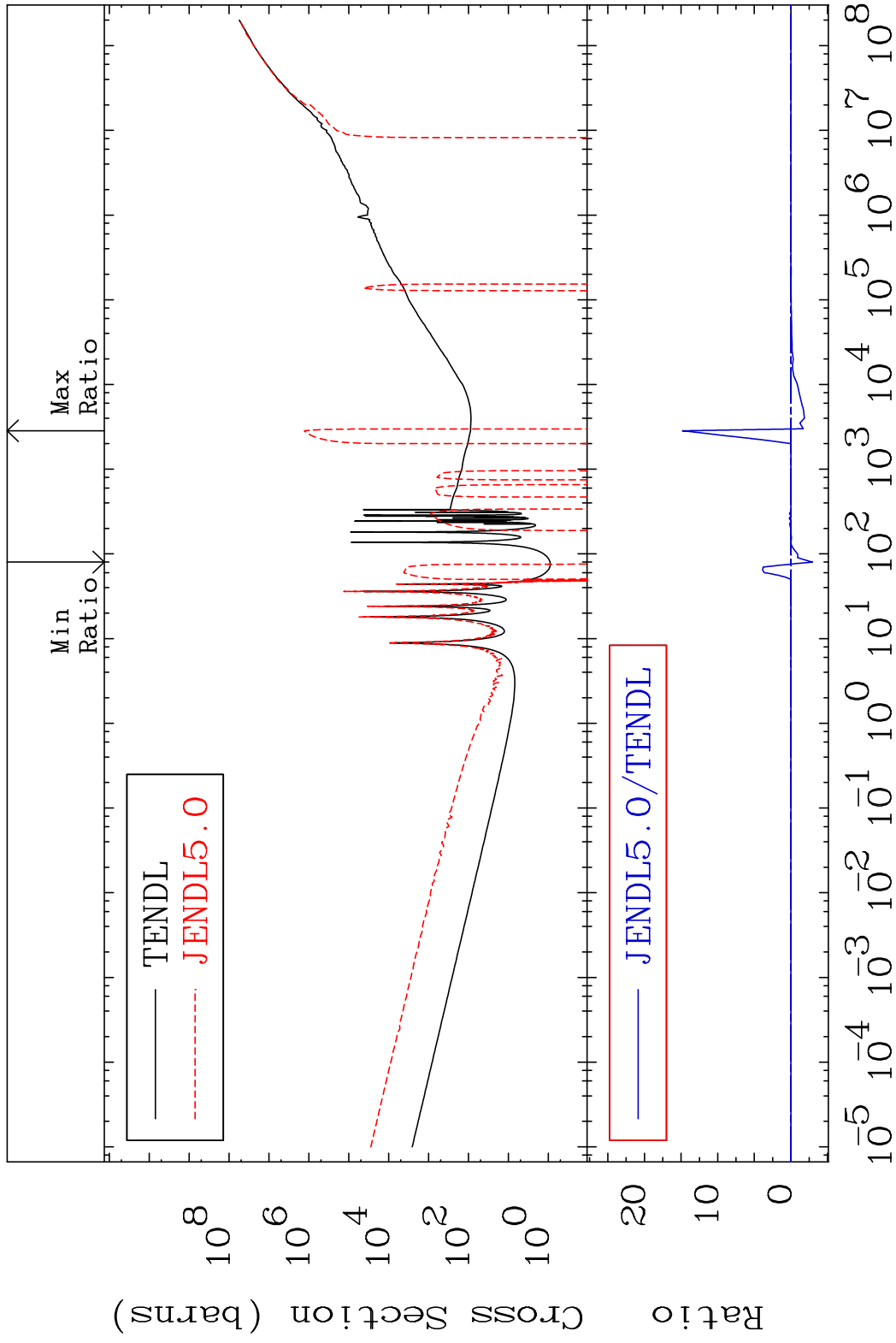


53

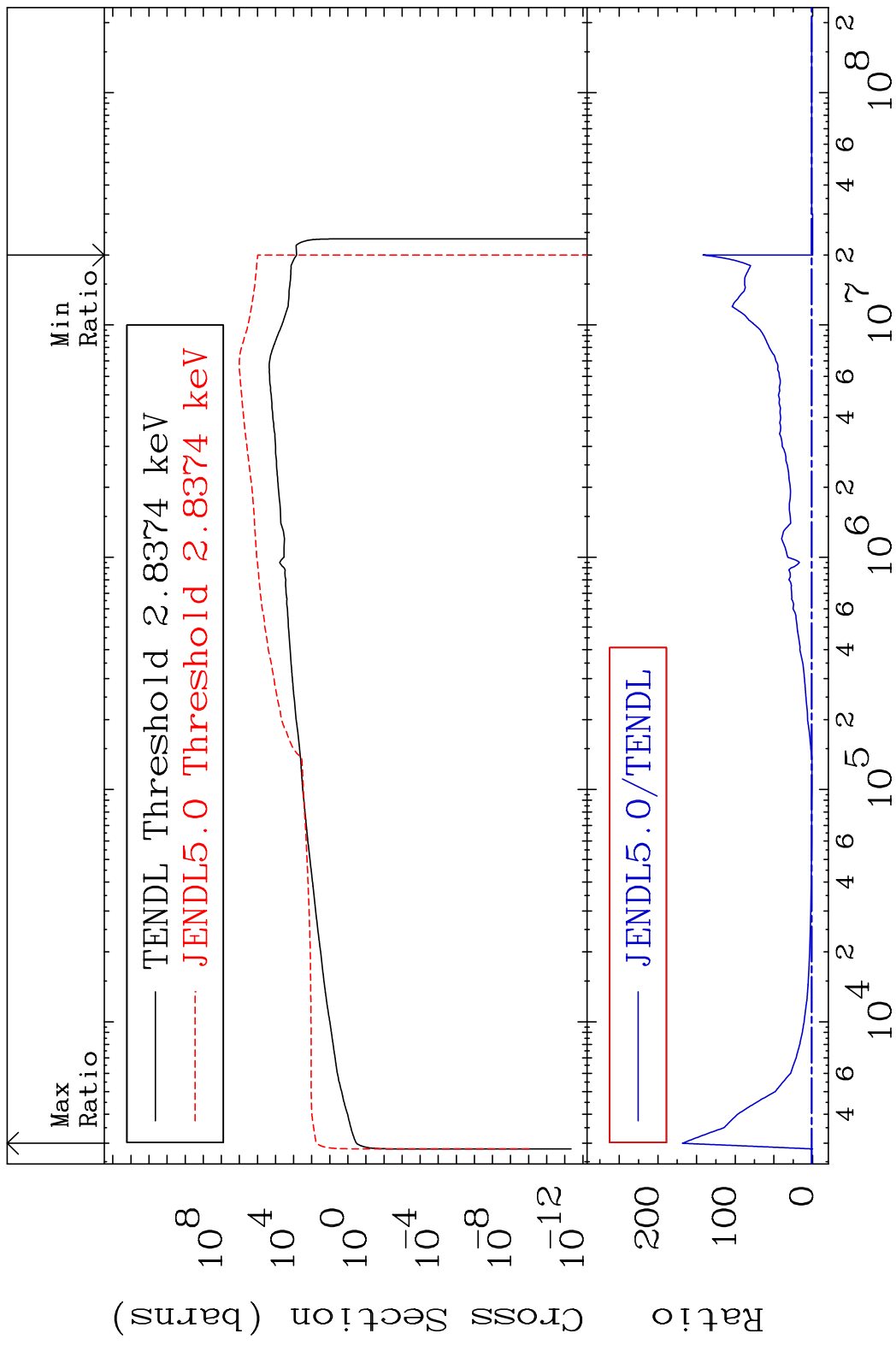
Incident Energy (eV)

44-Ru-103

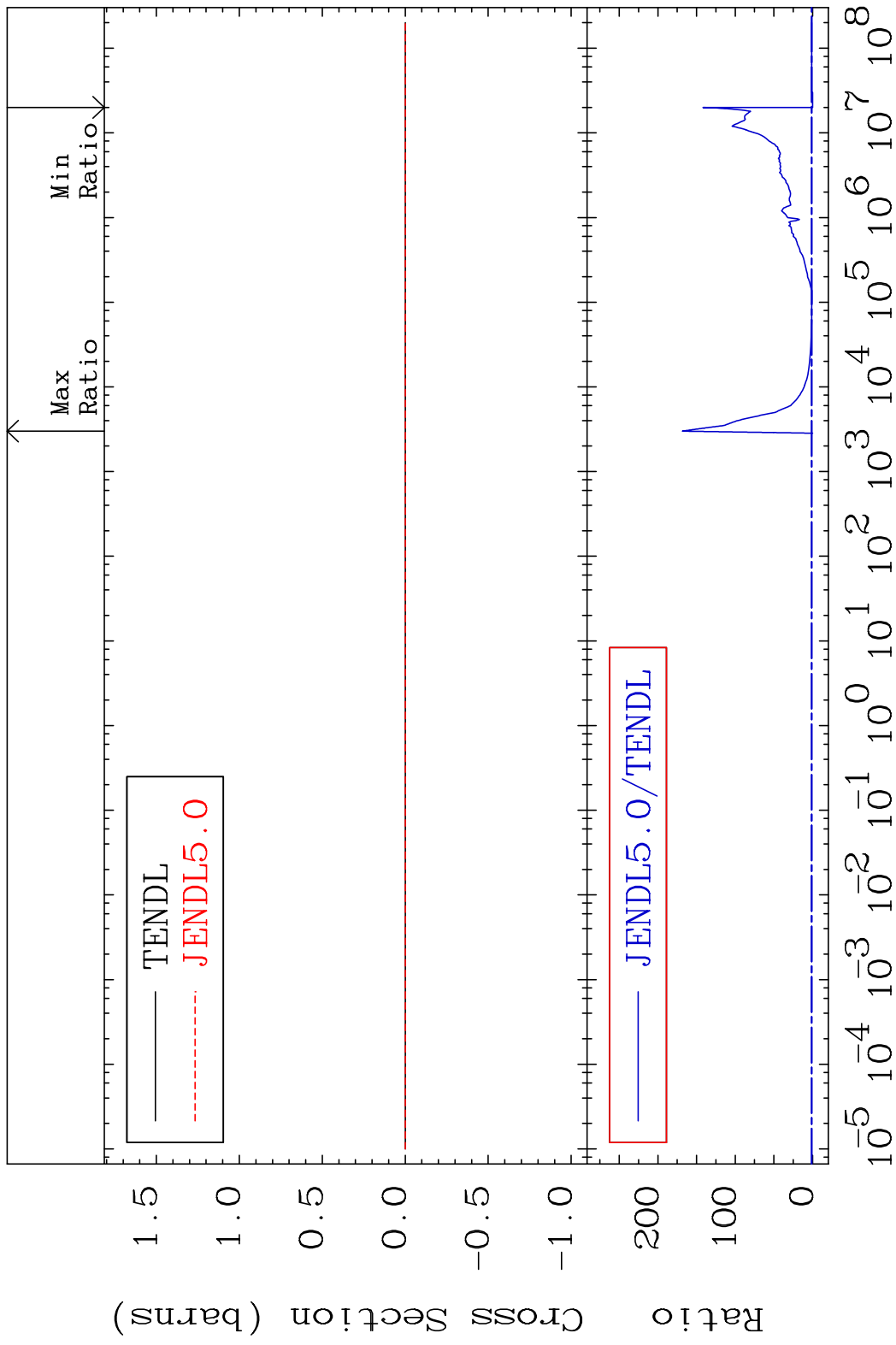
MAT 4446 Kerma non-elastic (all but mt2) 44-Ru-103
 Cross Section -9999. To 9999. %



MAT 4446 Kerma inelastic (mt51-91) 44-Ru-103
 Cross Section -100.0 To 9999. %



MAT 4446 Kerma fission (mt18 or mt19-20-21-38) 44-Ru-103
 Cross Section -100.0 To 9999. %

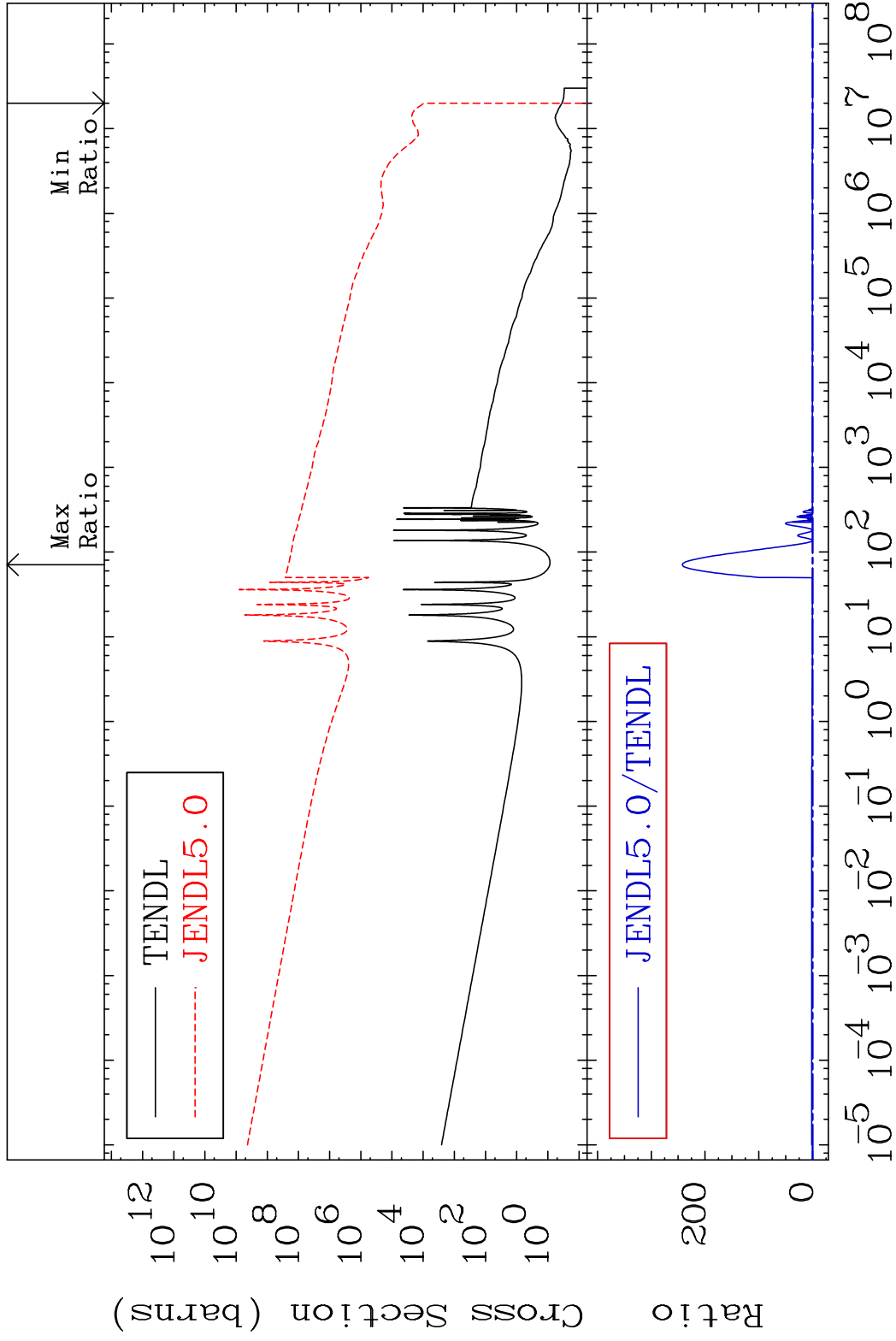


MAT 4446

Kerma capture (mt102)

44-Ru-103

Cross Section -100.0 To 9999. %

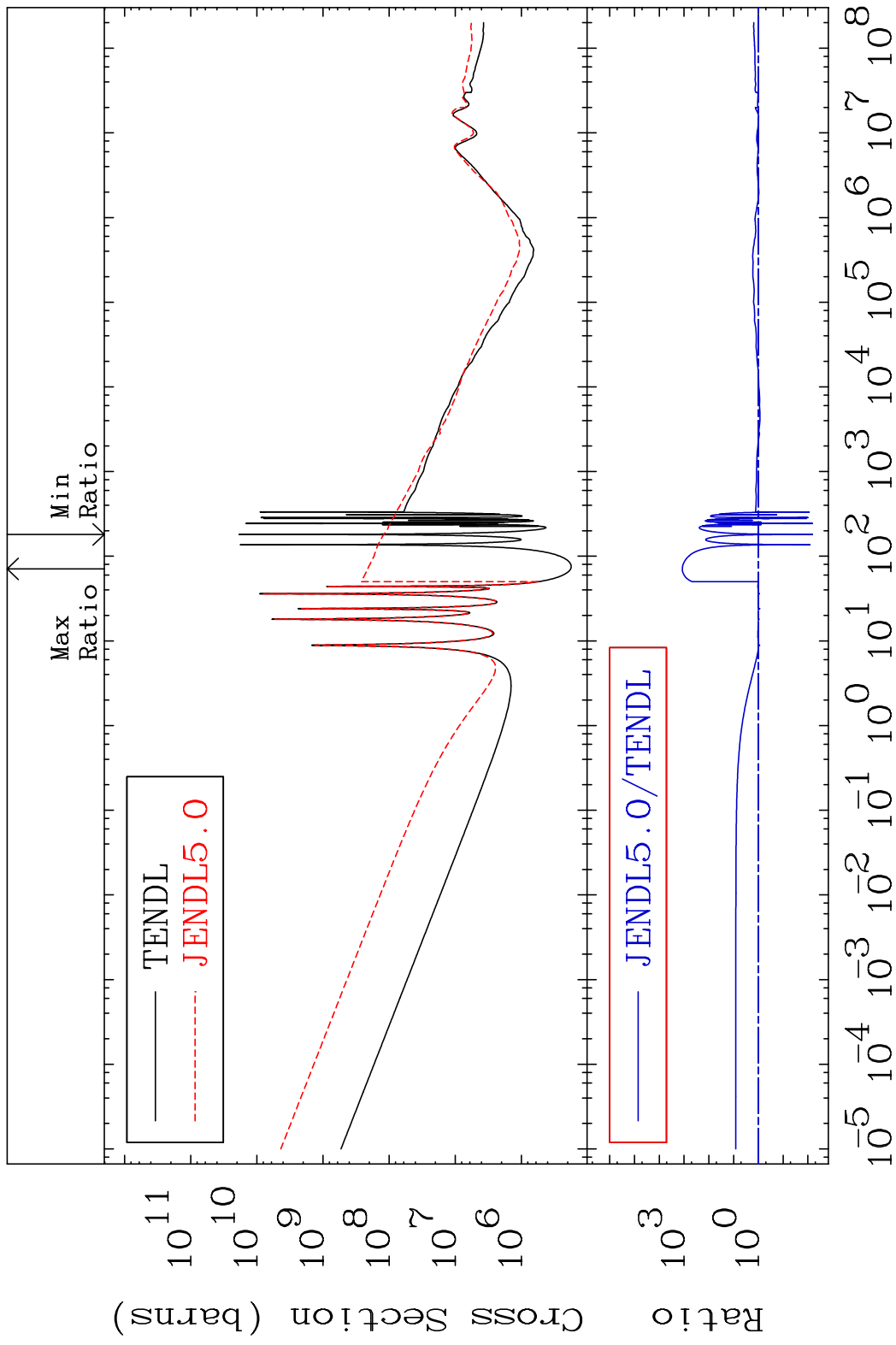


57

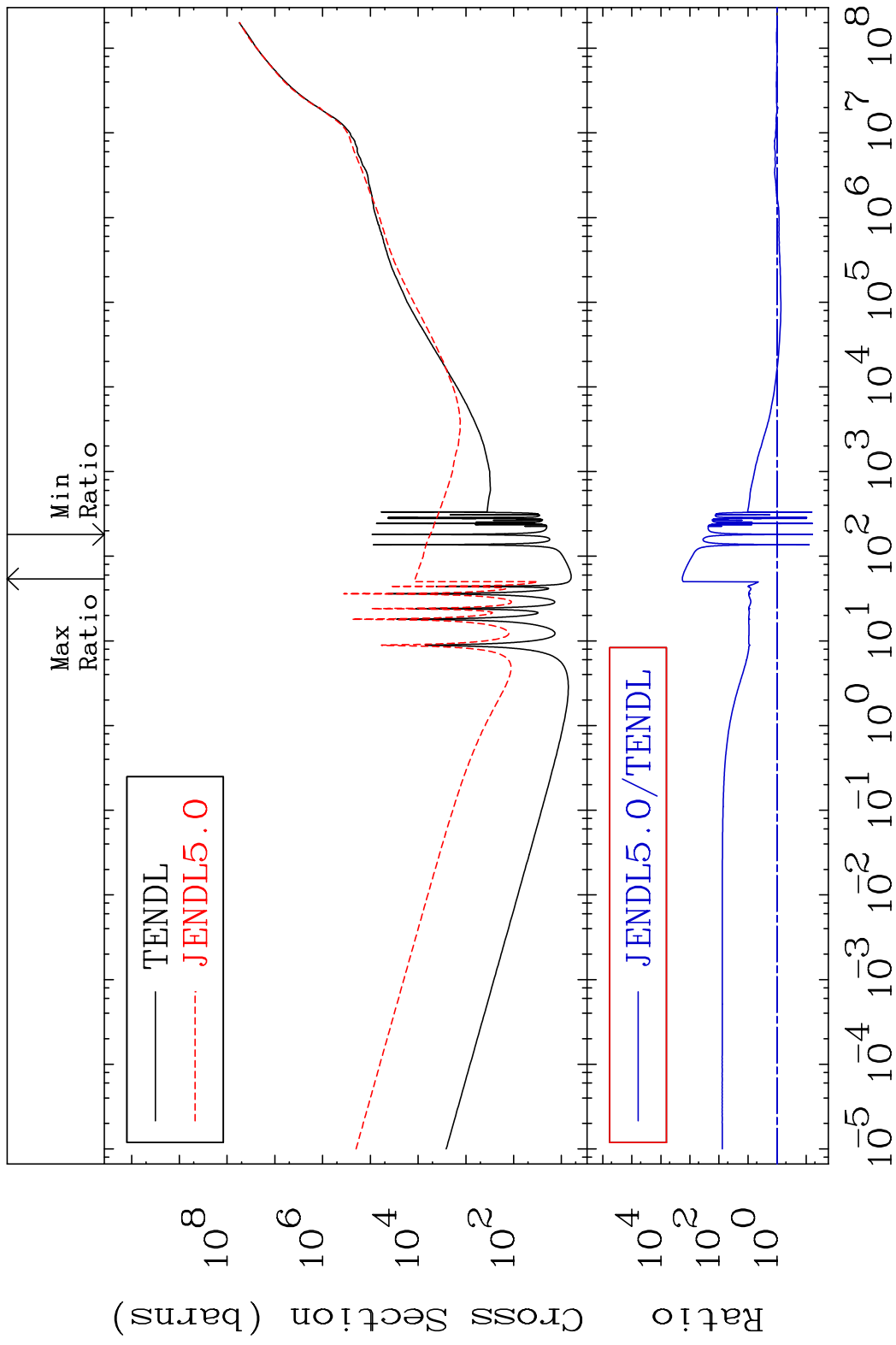
Incident Energy (eV)

44-Ru-103

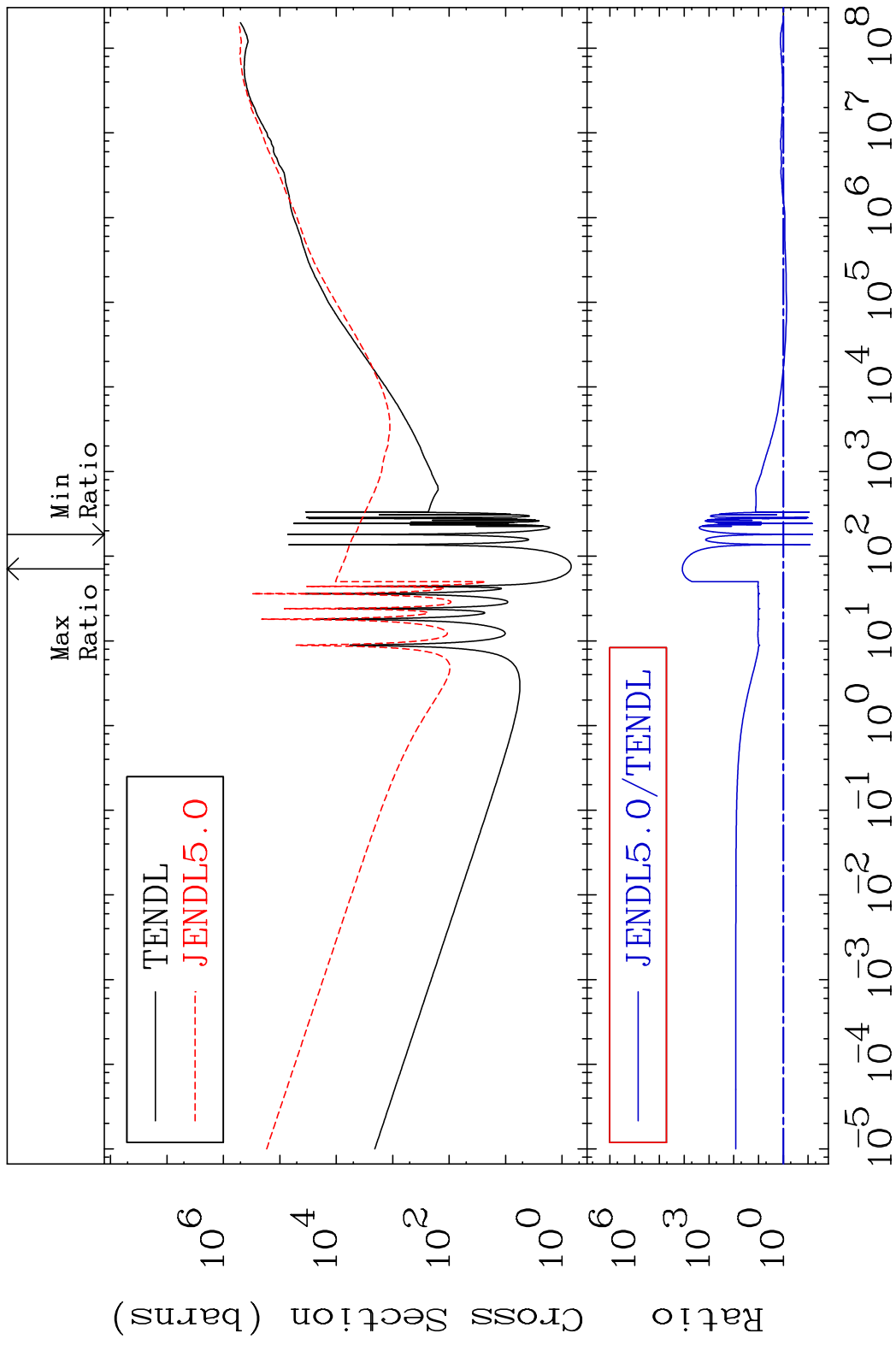
MAT 4446 Total photon (eV-barns) 44-Ru-103
 Cross Section -99.35 To 9999. %



MAT 4446 Total kinematic kerma (high limit) 44-Ru-103
 Cross Section -93.99 To 9999. %

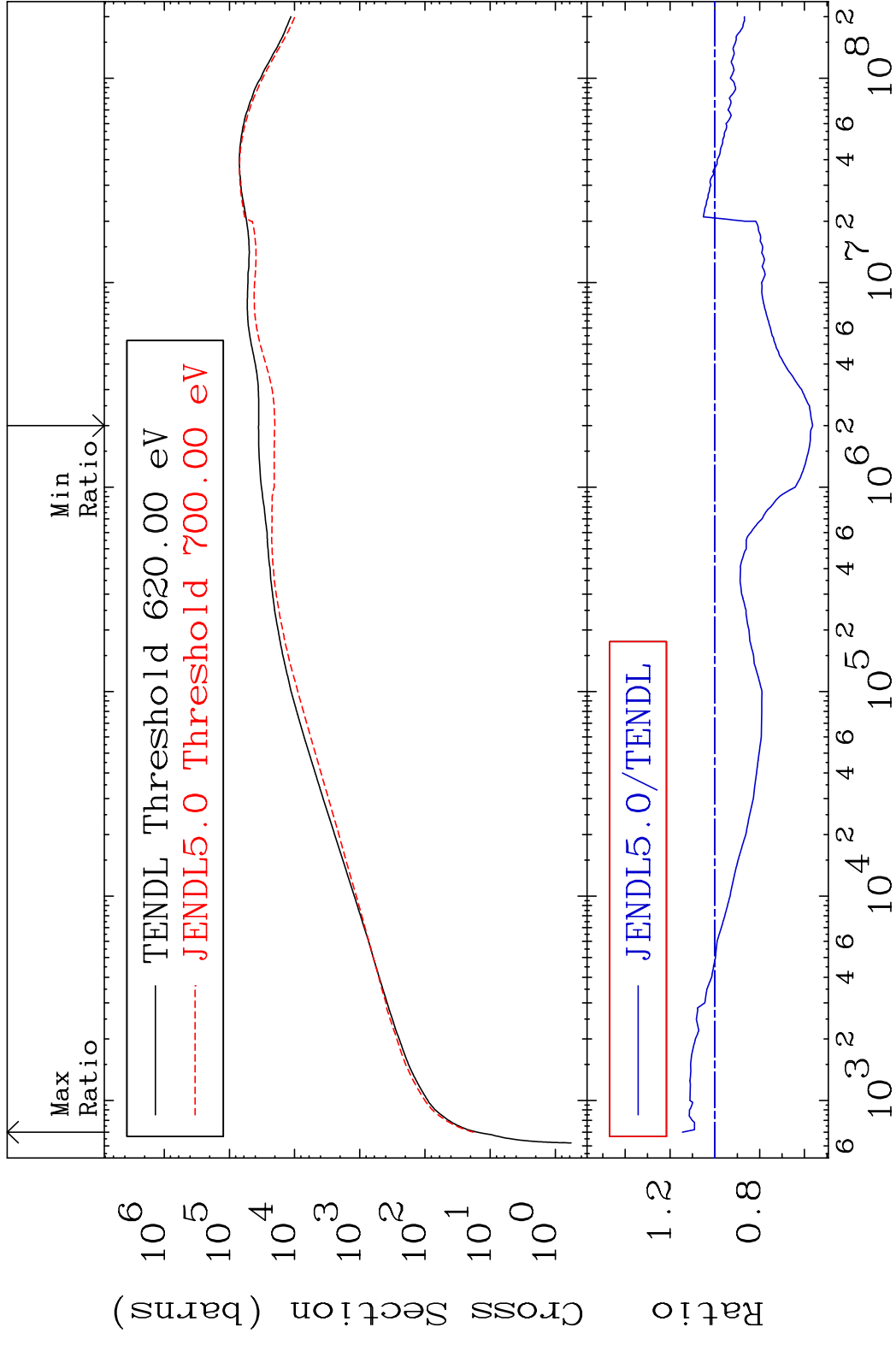


MAT 4446 Dpa total (eV-barns) 44-Ru-103
 Cross Section -93.39 To 9999. %

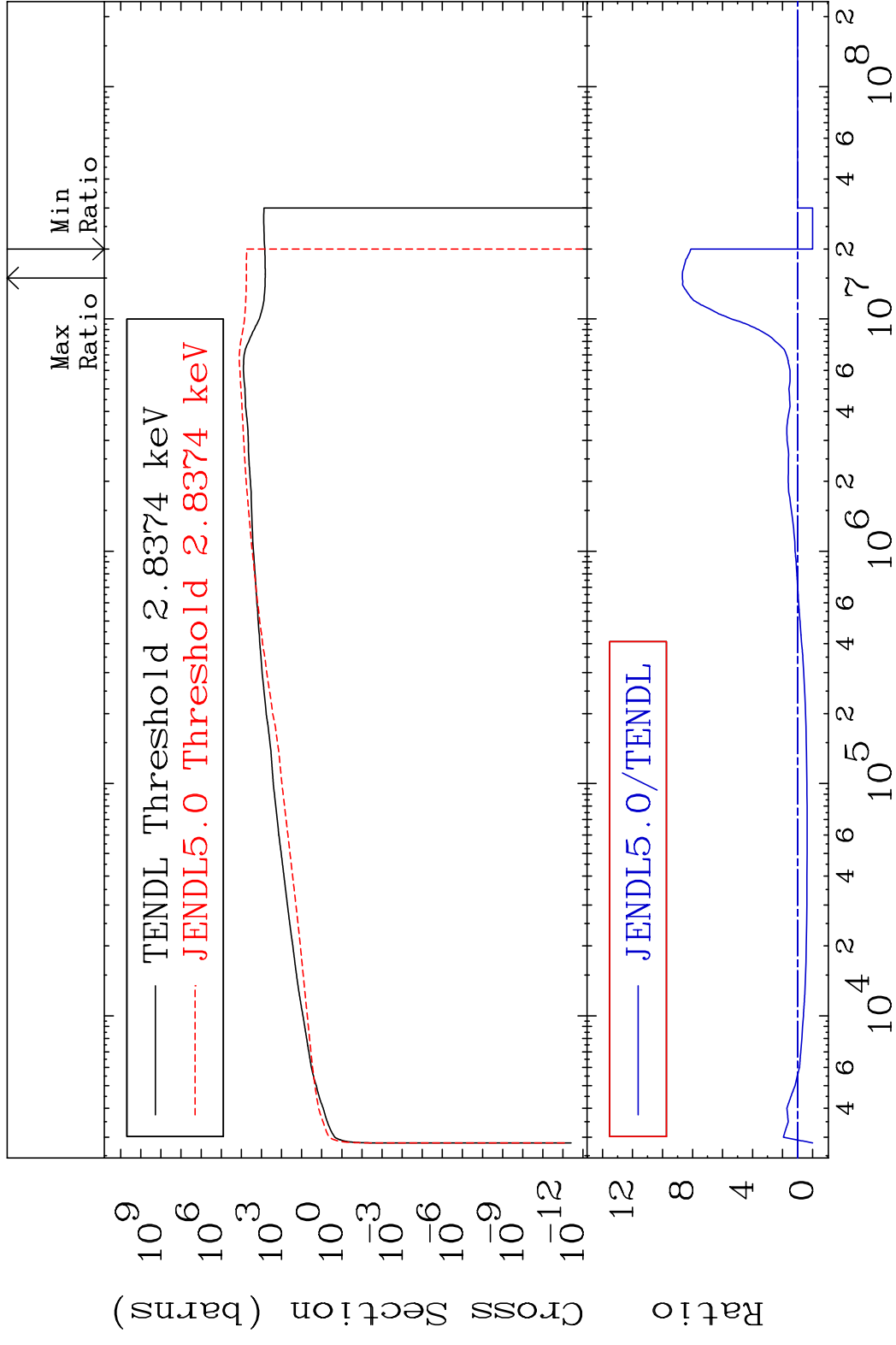


60 Incident Energy (eV) 44-Ru-103

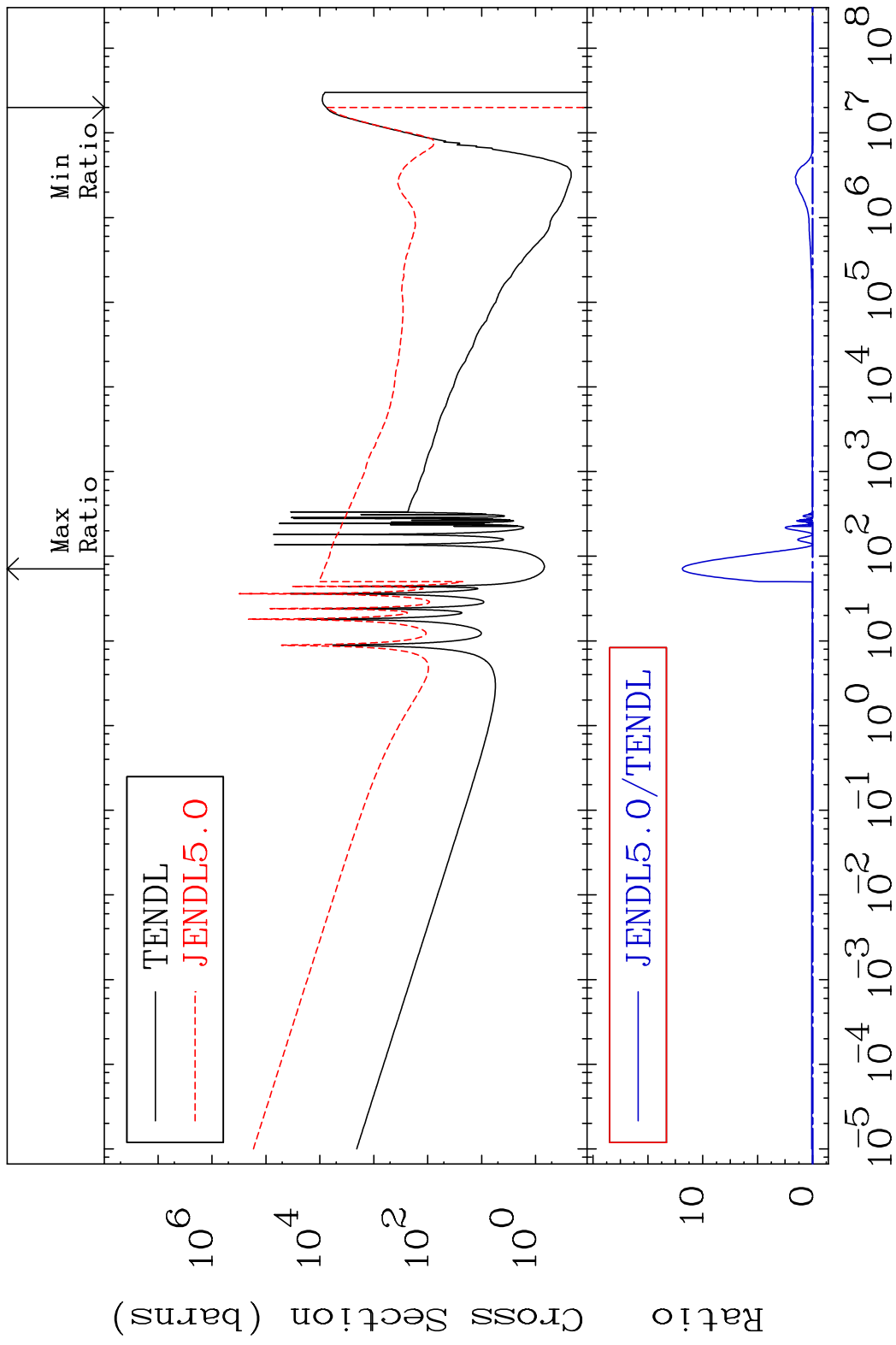
MAT 4446 Dpa elastic (mt2) 44-Ru-103
 Cross Section -43.60 To 14.48 %

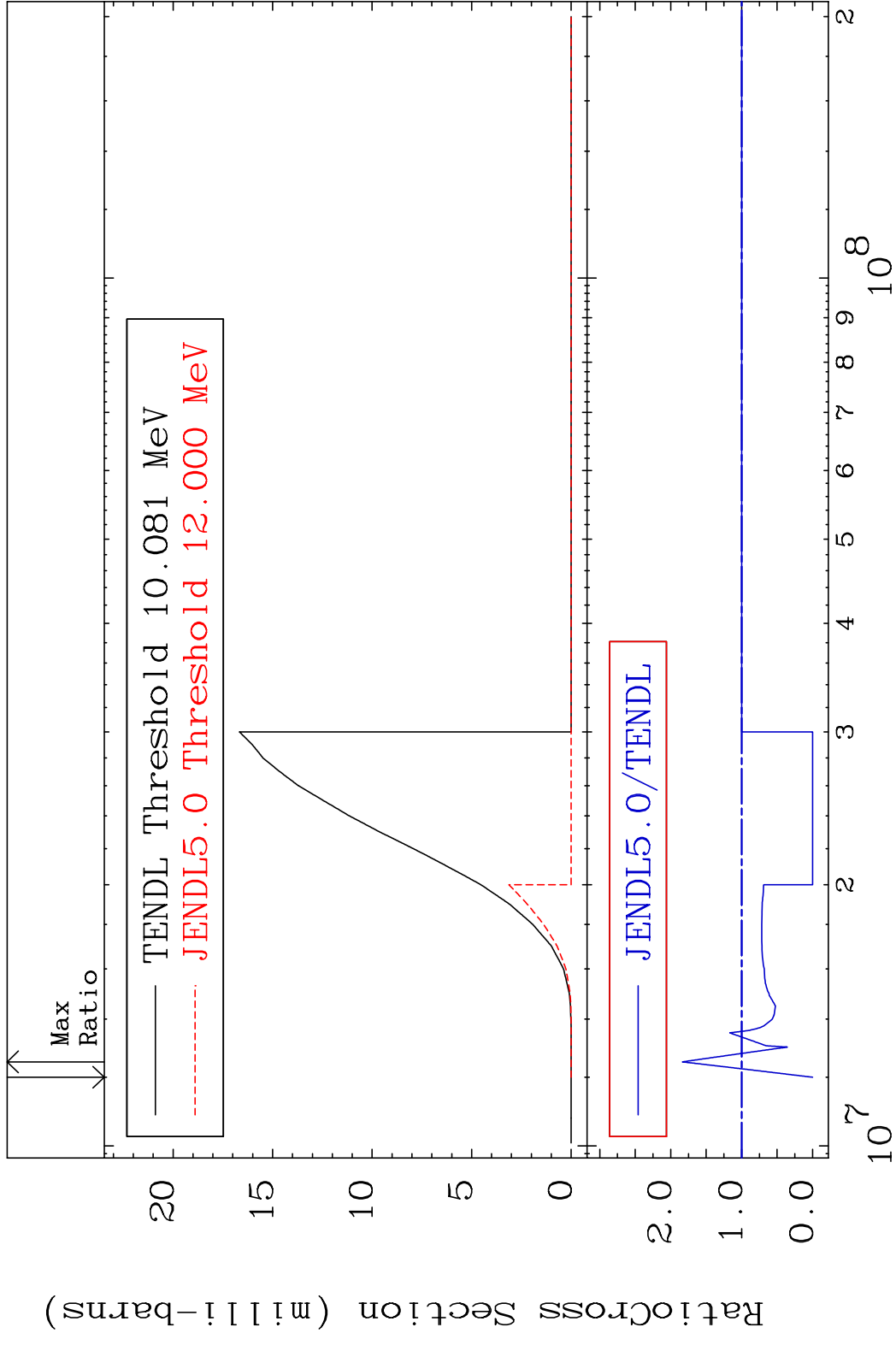


MAT 4446 Dpa inelastic (mt51-91) 44-Ru-103
 Cross Section -100.0 To 767.9 %



MAT 4446 Dpa disappearance (mt102 -120) 44-Ru-103
 Cross Section -100.0 To 9999. %





MAT 4446 (n,d):43-Tc-102g 44-Ru-103
 Radionuclide Production Cross Section (%)

