

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

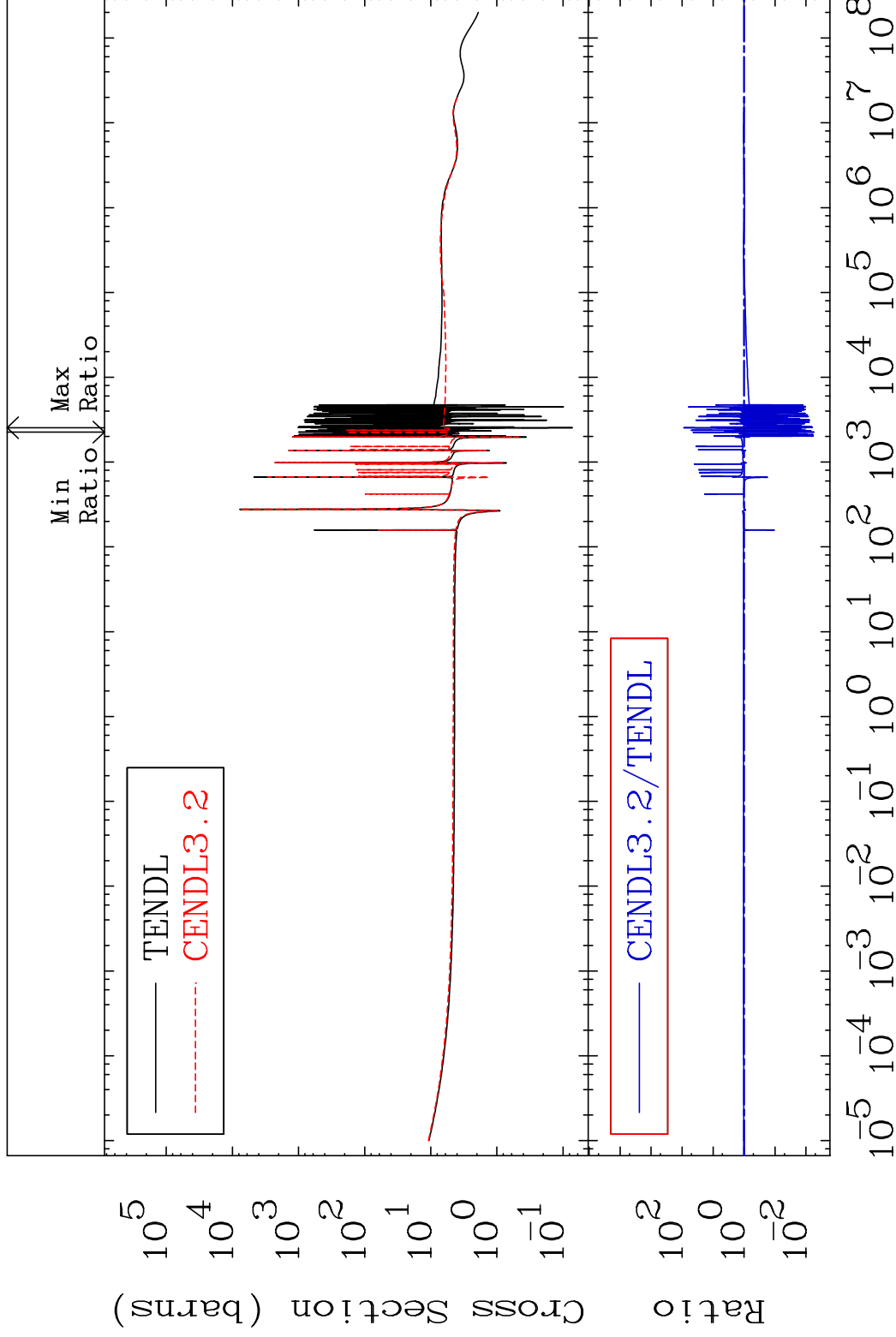
MAT 5031

Total

50-Sn-114

Cross Section

-99.45 To 8808. %



1

Incident Energy (eV)

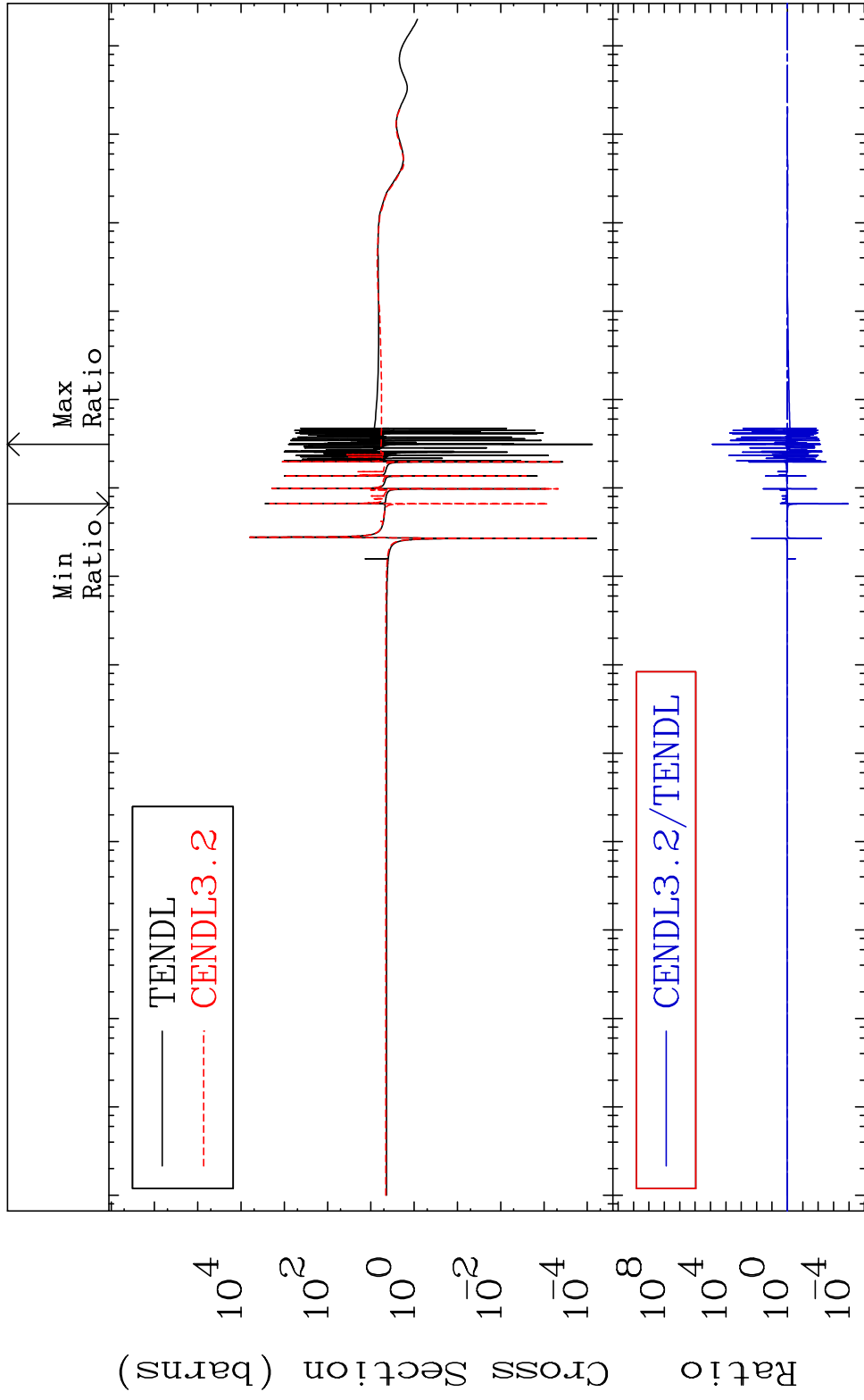
50-Sn-114

MAT 5031

Elastic

50-Sn-114

Cross Section -99.99 To 9999. %



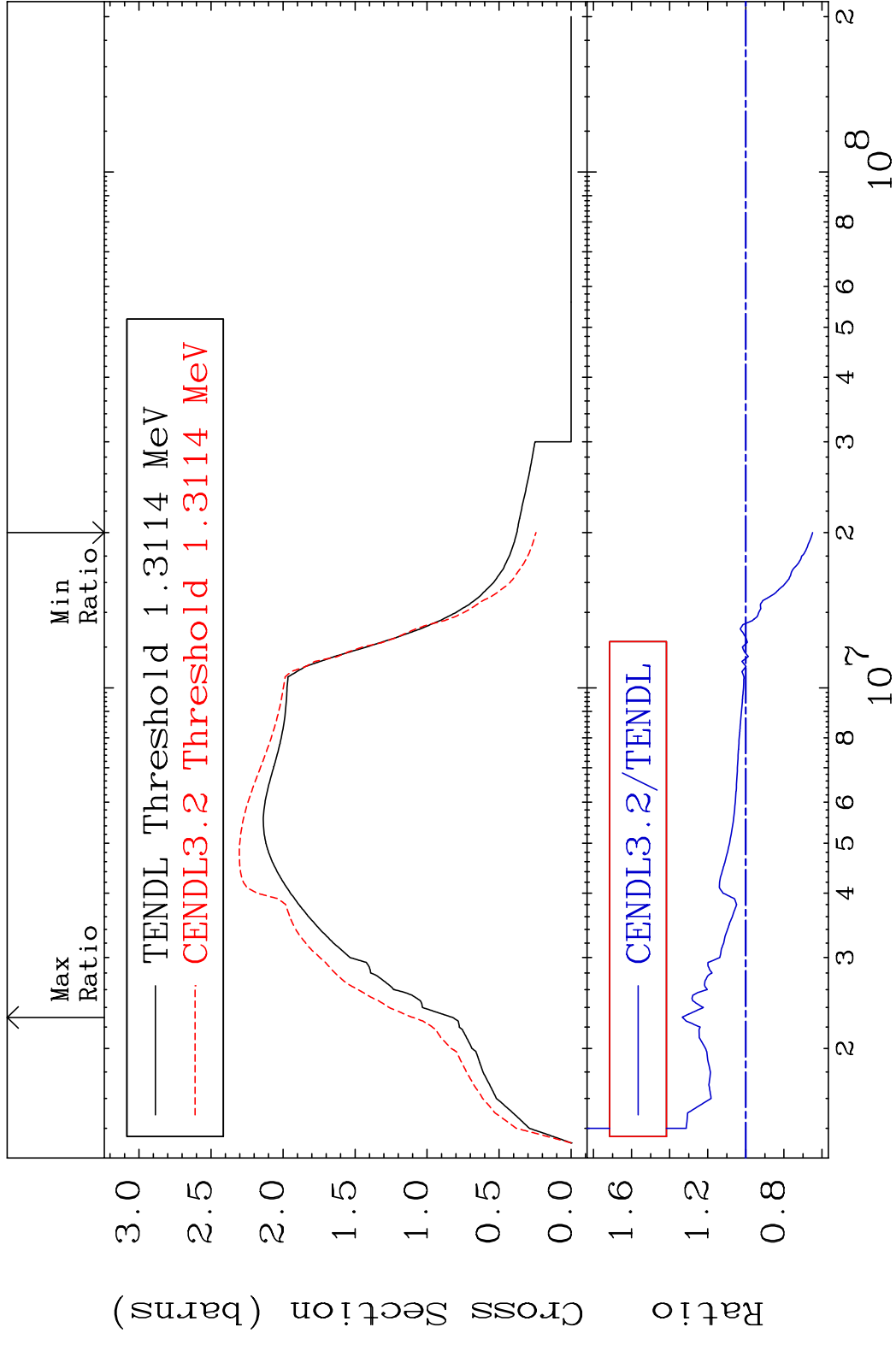
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

2

Incident Energy (eV)

50-Sn-114

MAT 5031 Inelastic 50-Sn-114
 Cross Section -35.01 To 33.35 %

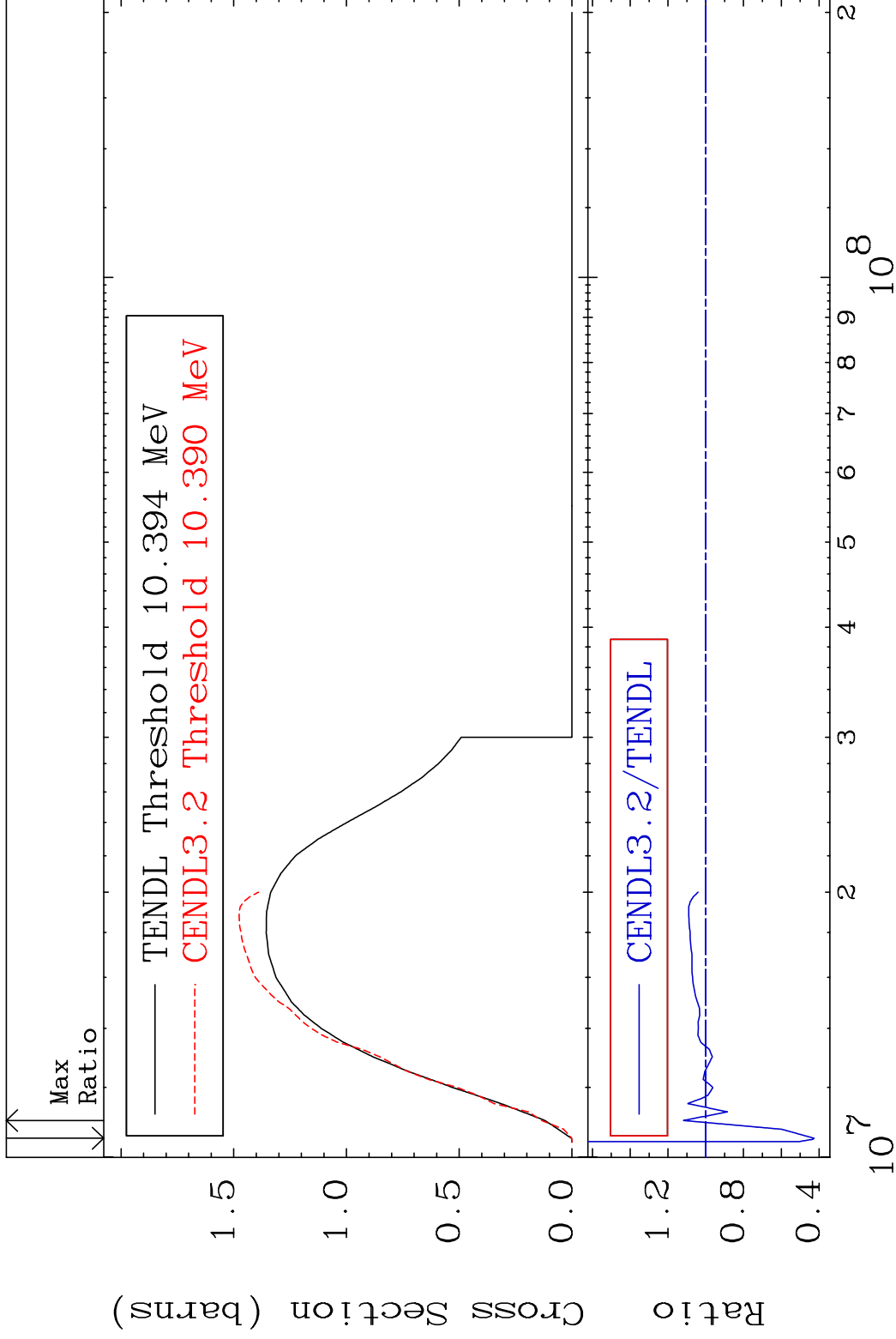


MAT 5031

(n,2n)

50-Sn-114

Cross Section -57.34 To 11.80 %



4

Incident Energy (eV)

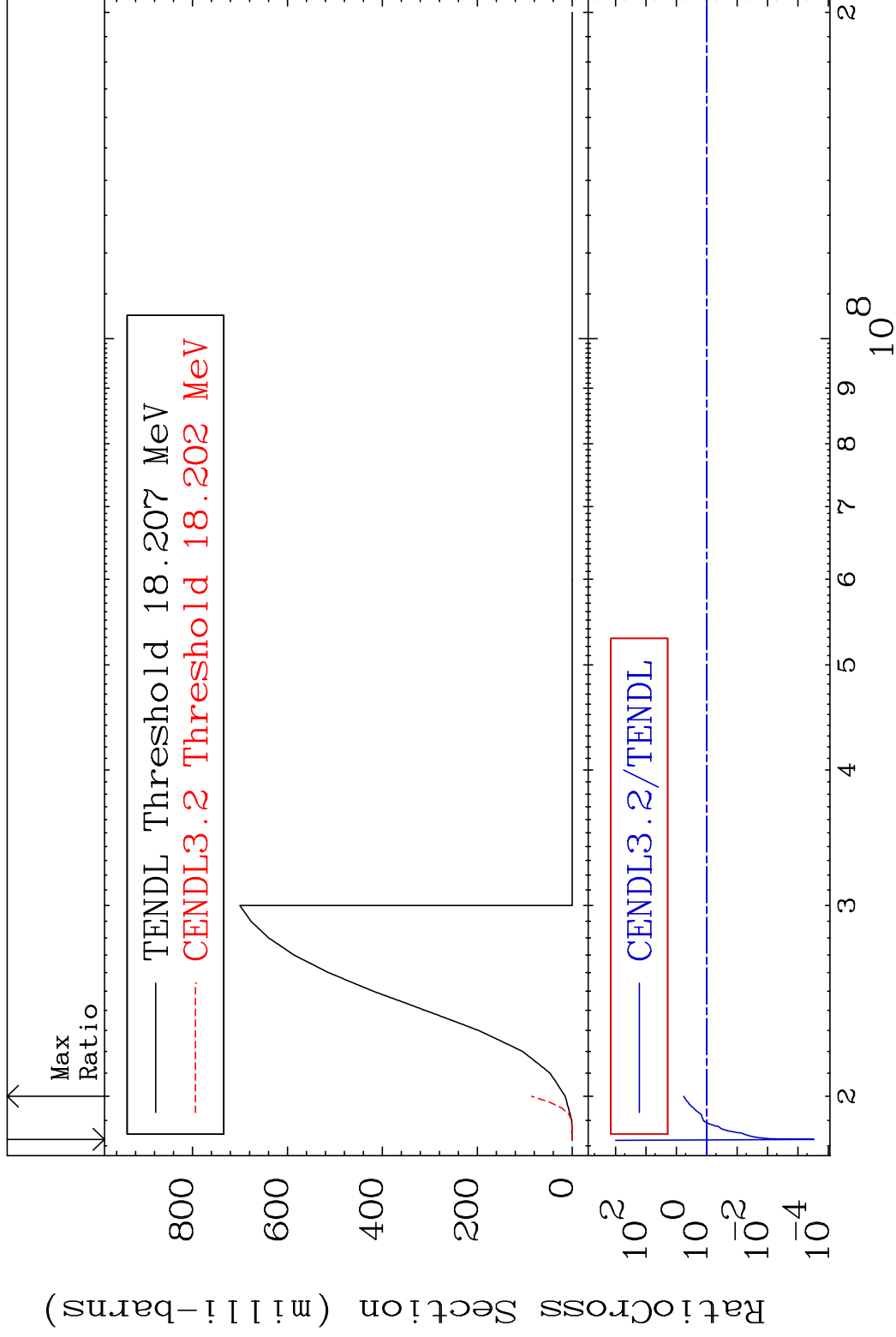
50-Sn-114

MAT 5031

(n,3n)

50-Sn-114

Cross Section -99.97 To 474.9 %



5

Incident Energy (eV)

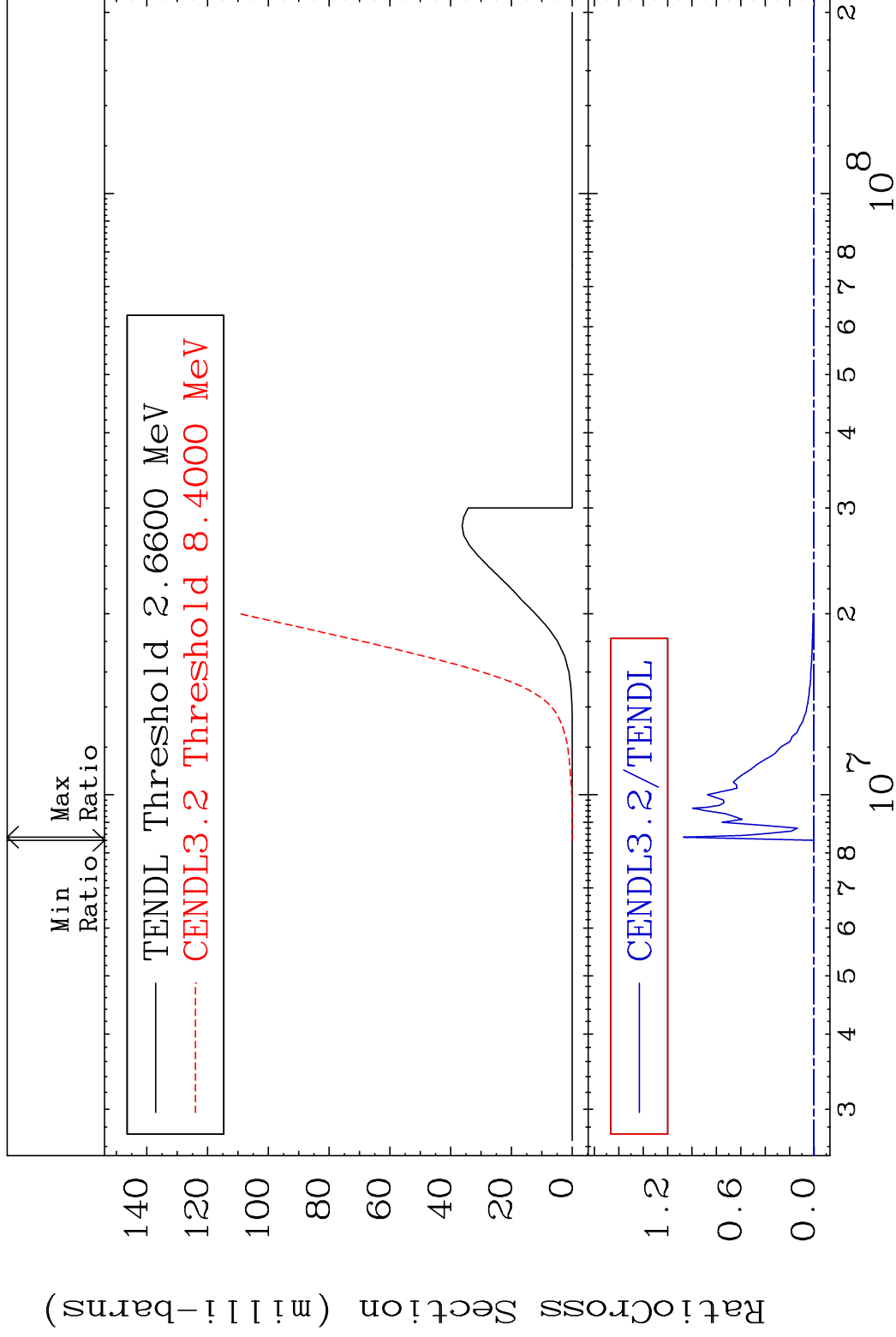
50-Sn-114

MAT 5031

(n, n') α

50-Sn-114

Cross Section -100.0 To 9999. %



6

Incident Energy (eV)

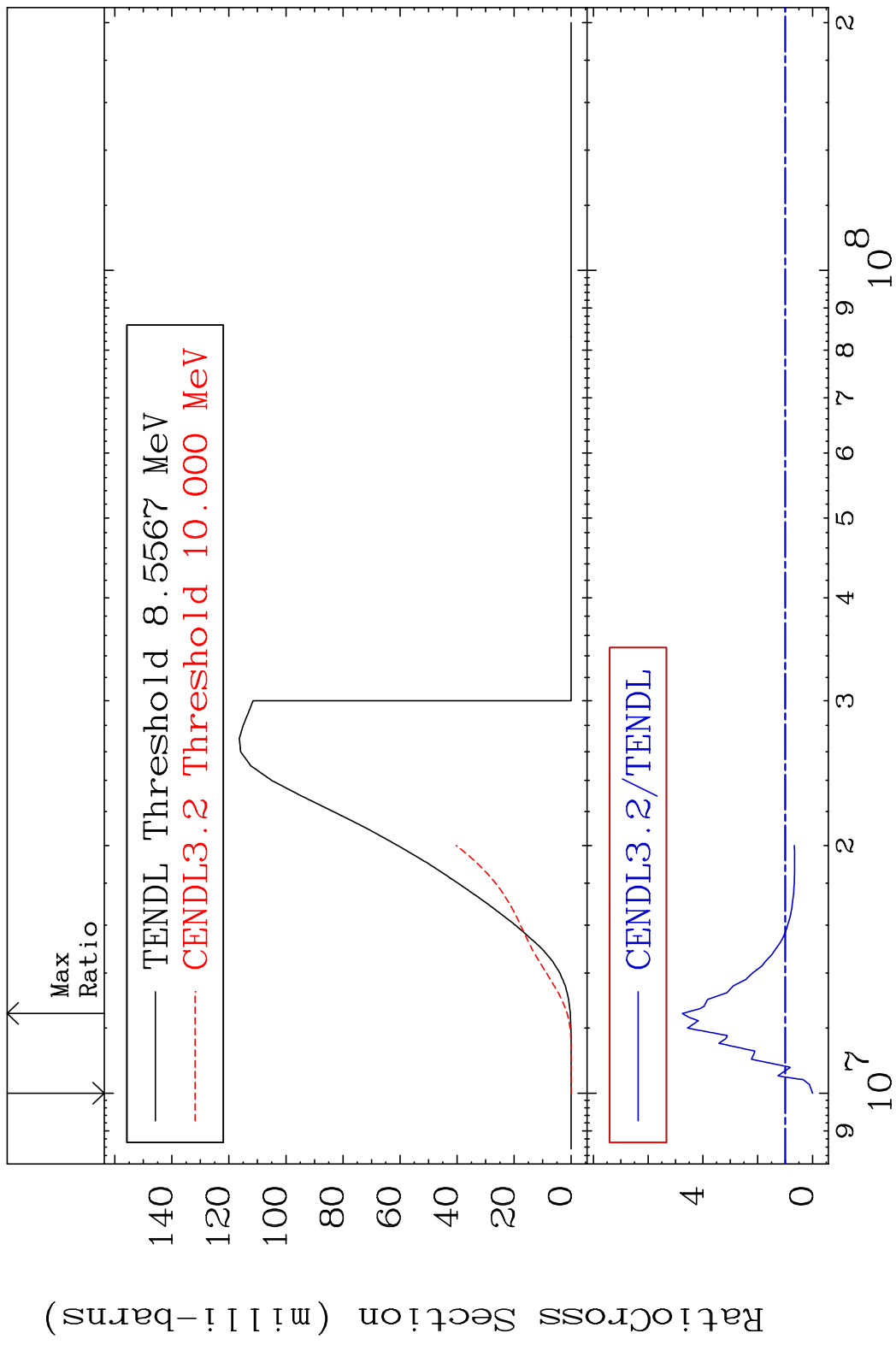
50-Sn-114

MAT 5031

(n, n') p

50-Sn-114

Cross Section -100.0 To 375.2 %



7

Incident Energy (eV)

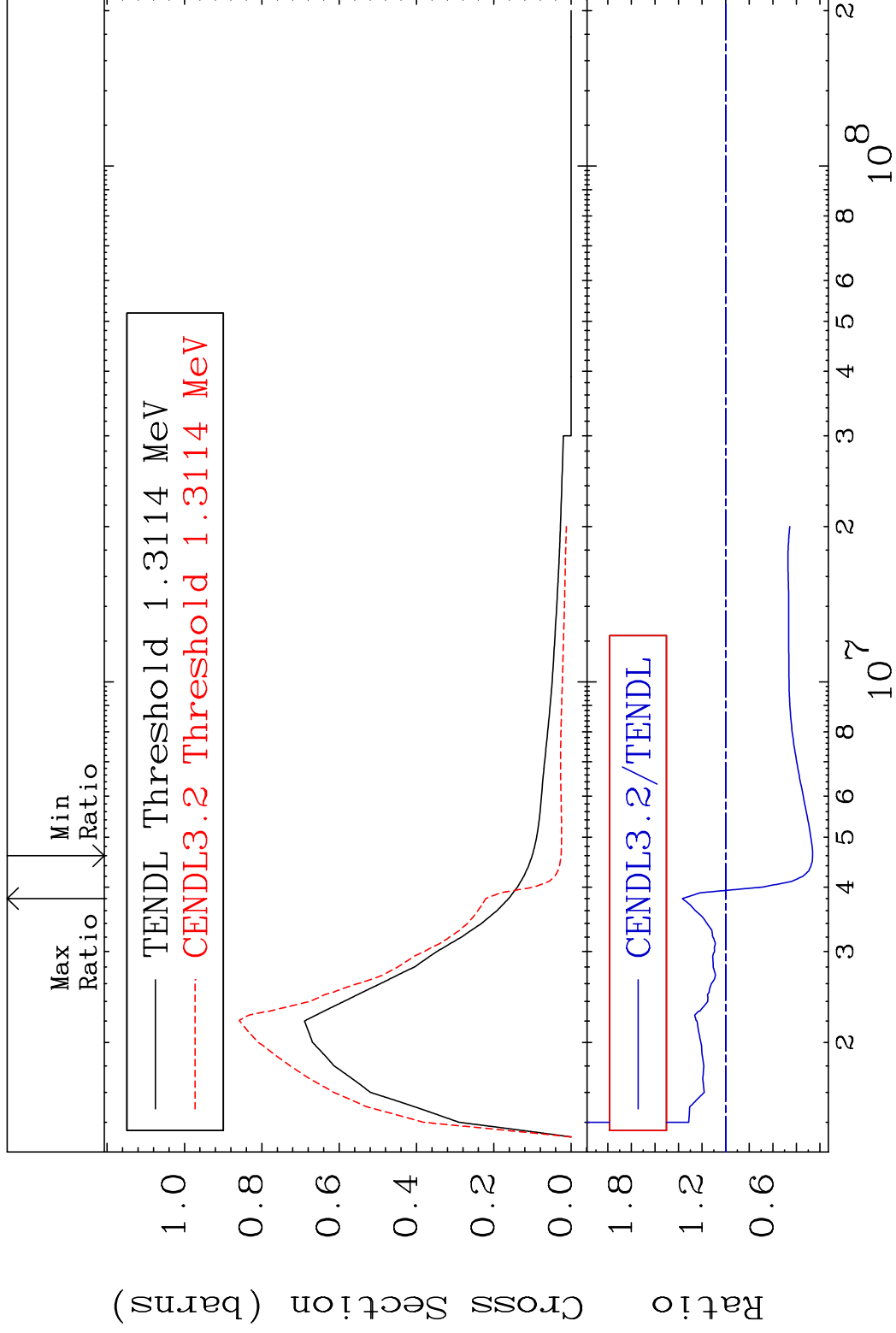
50-Sn-114

MAT 5031

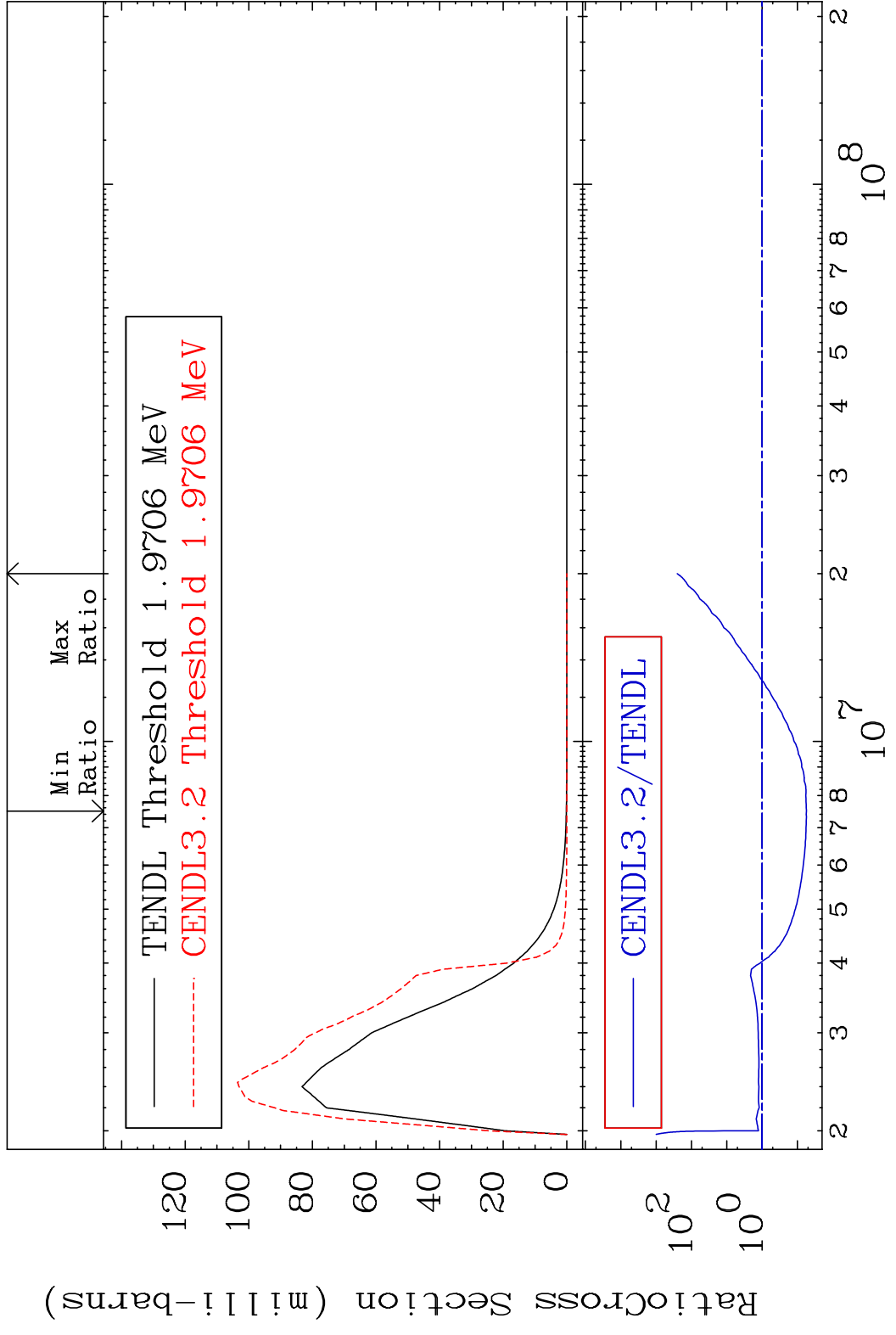
MT= 51 (n,n') Level

50-Sn-114

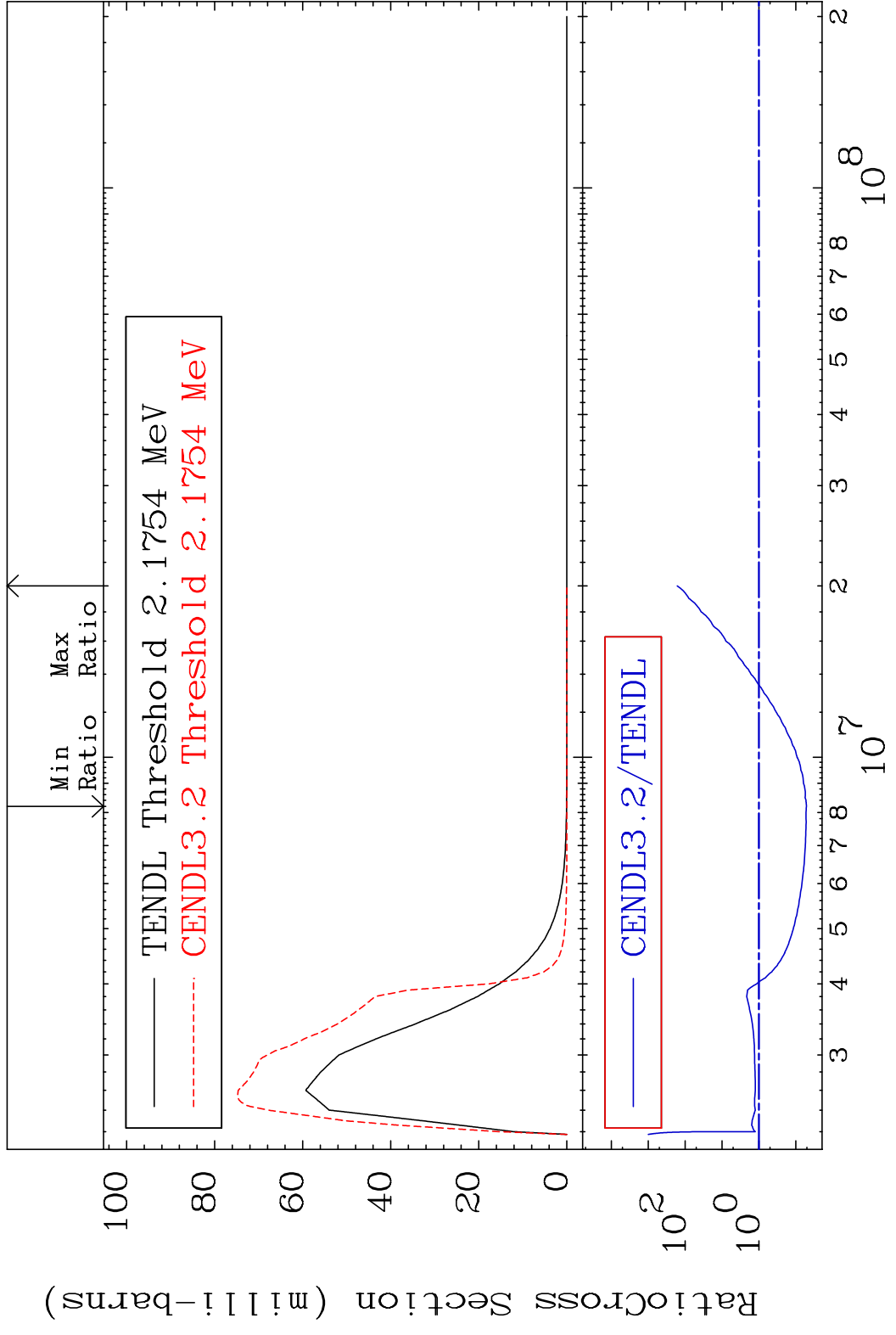
Cross Section -73.71 To 36.74 %



MAT 5031 MT= 52 (n, n') Level 50-Sn-114
 Cross Section -94.42 To 9999. %

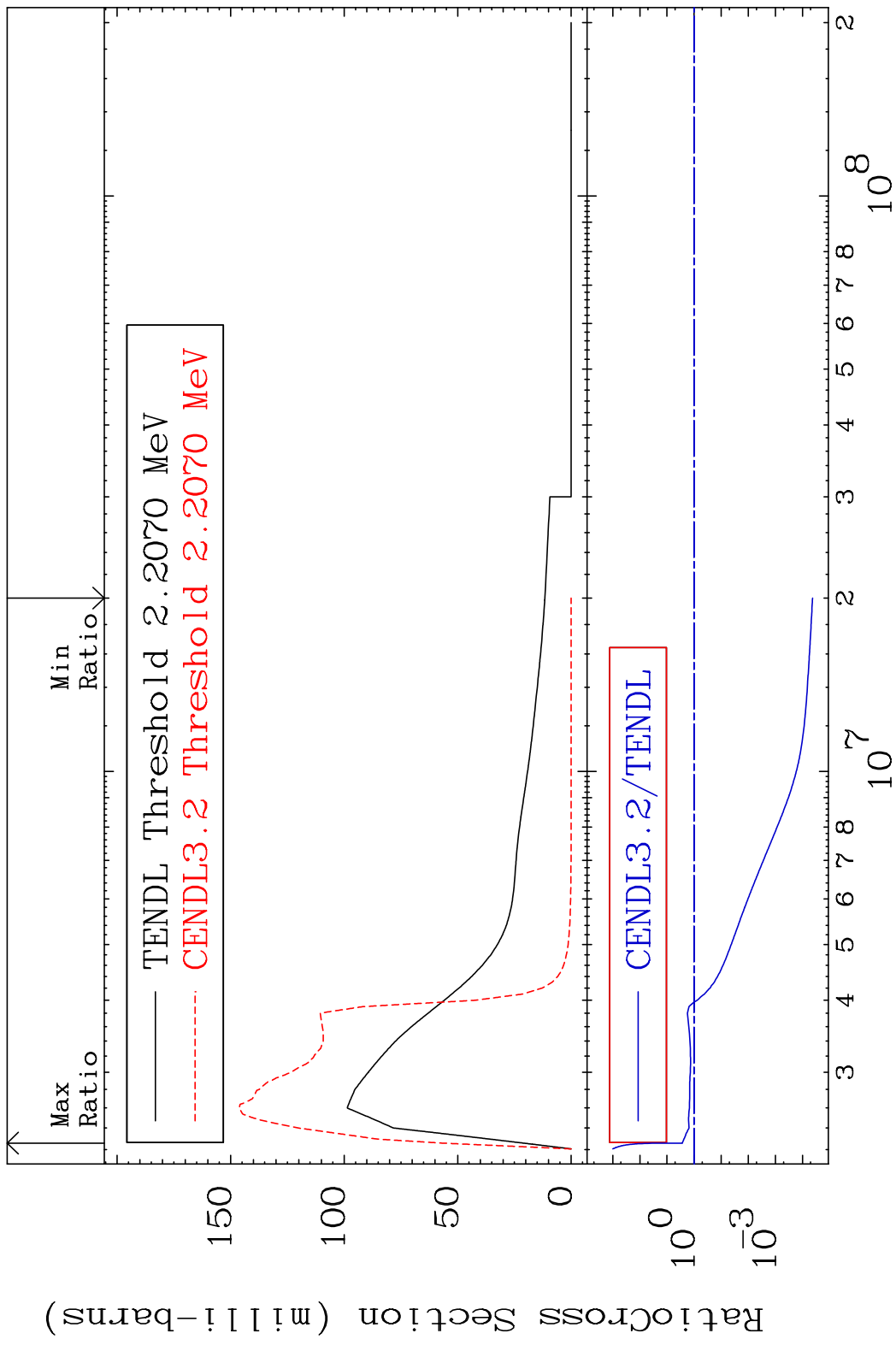


MAT 5031 MT= 53 (n, n') Level 50-Sn-114
 Cross Section -94.82 To 9999. %



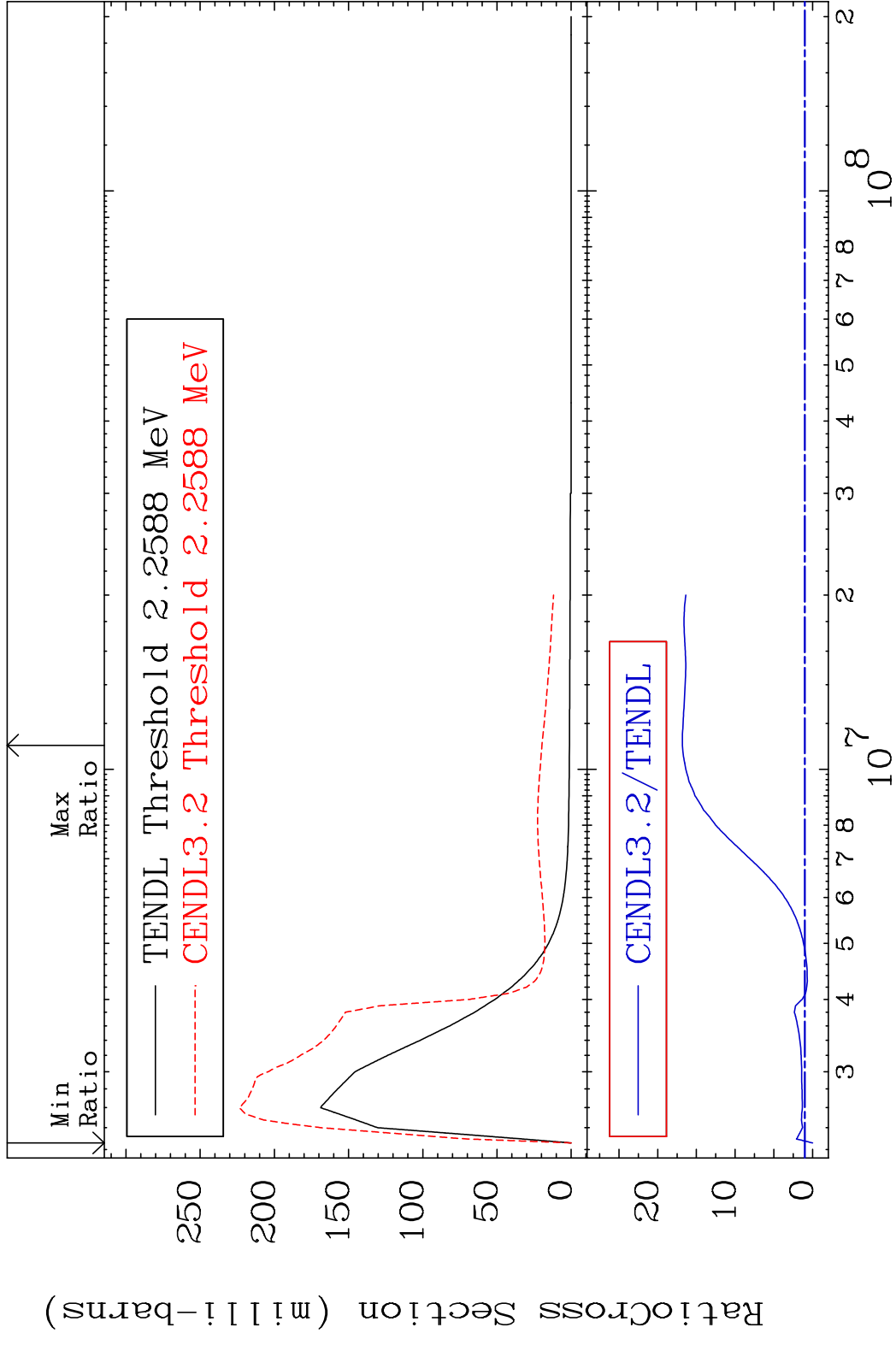
10 Incident Energy (eV) 50-Sn-114

MAT 5031 MT= 54 (n, n') Level 50-Sn-114
 Cross Section -100.0 To 170.5 %

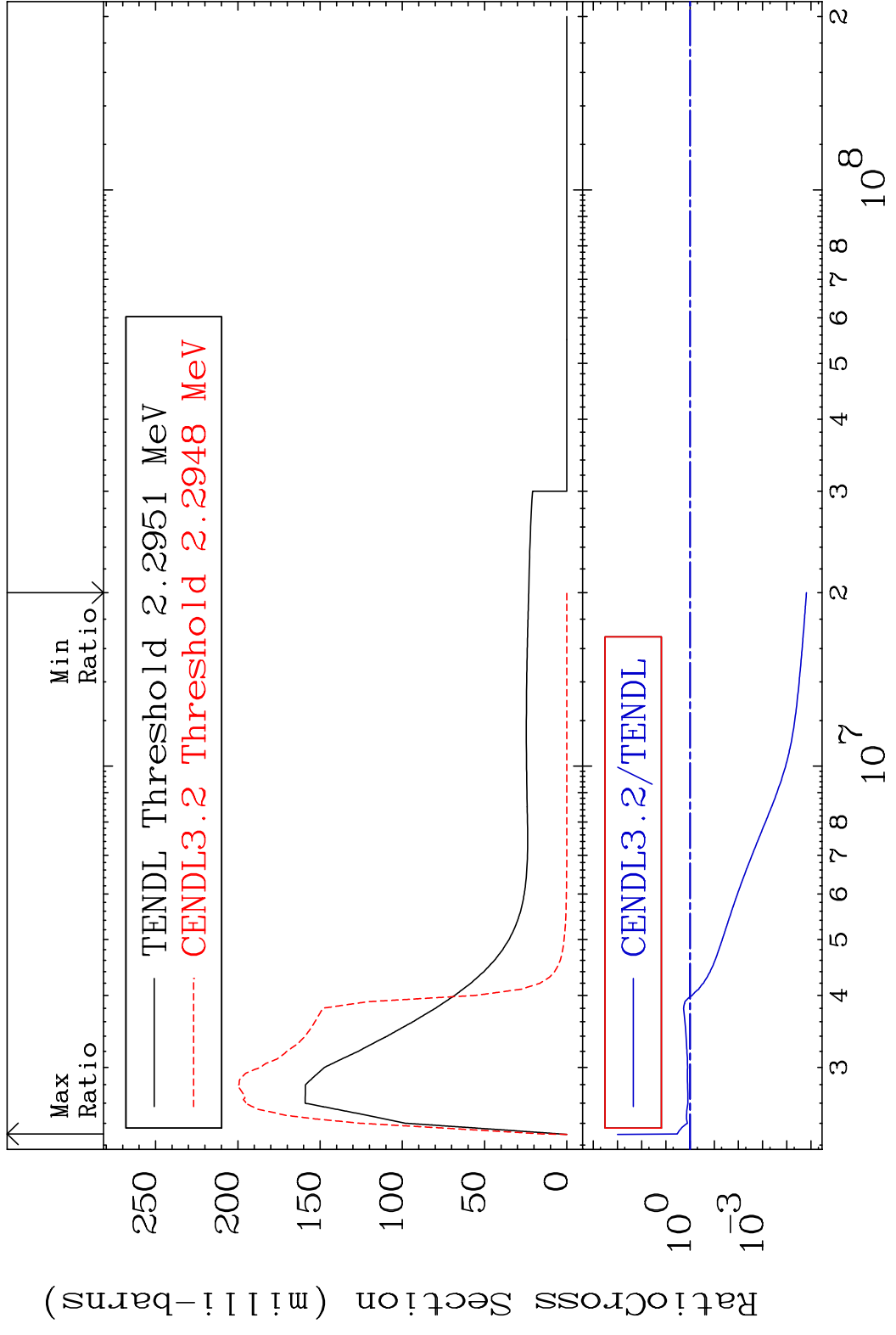


11 Incident Energy (eV) 50-Sn-114

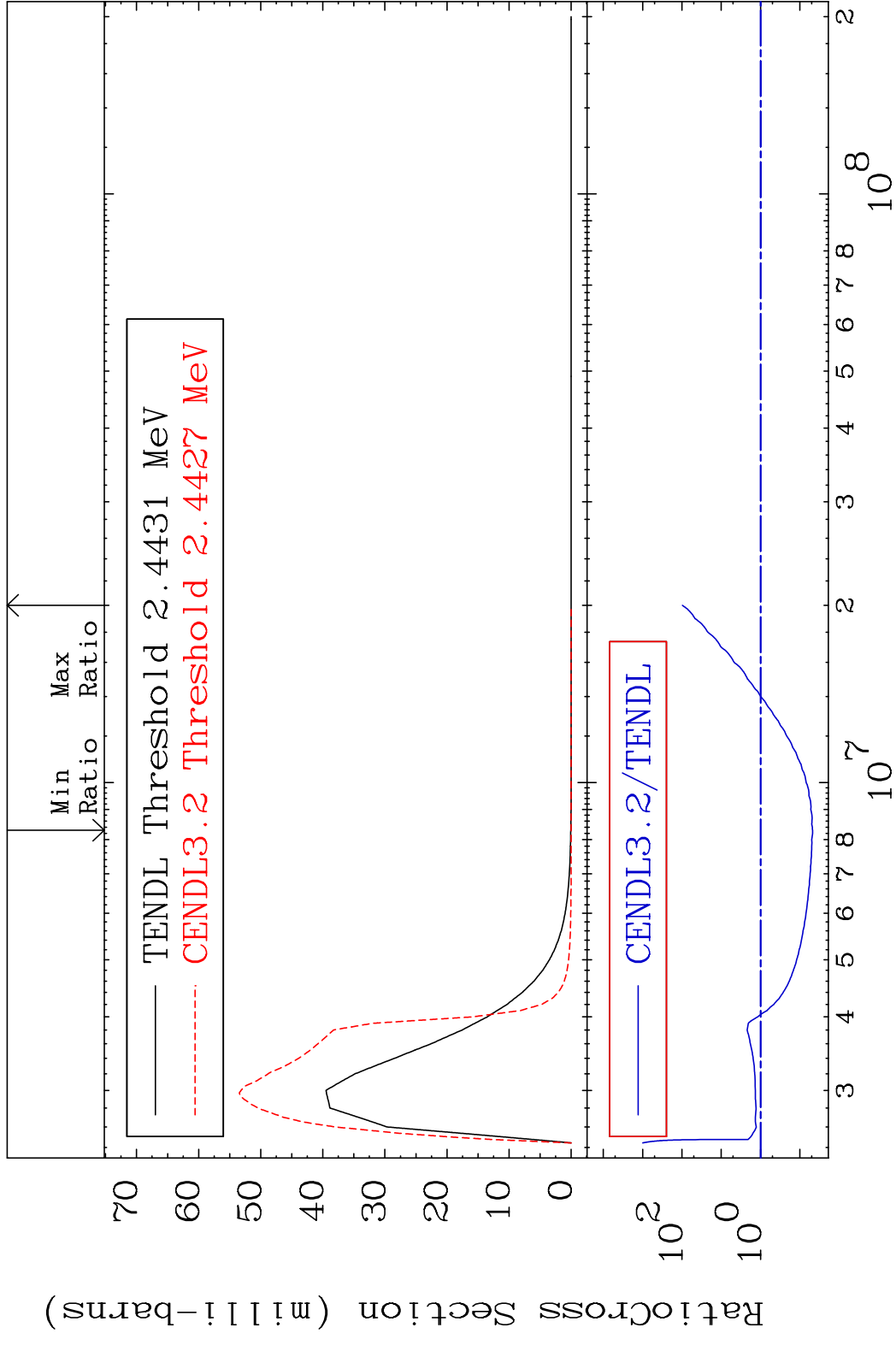
MAT 5031 MT= 55 (n, n') Level 50-Sn-114
 Cross Section -100.0 To 1582. %



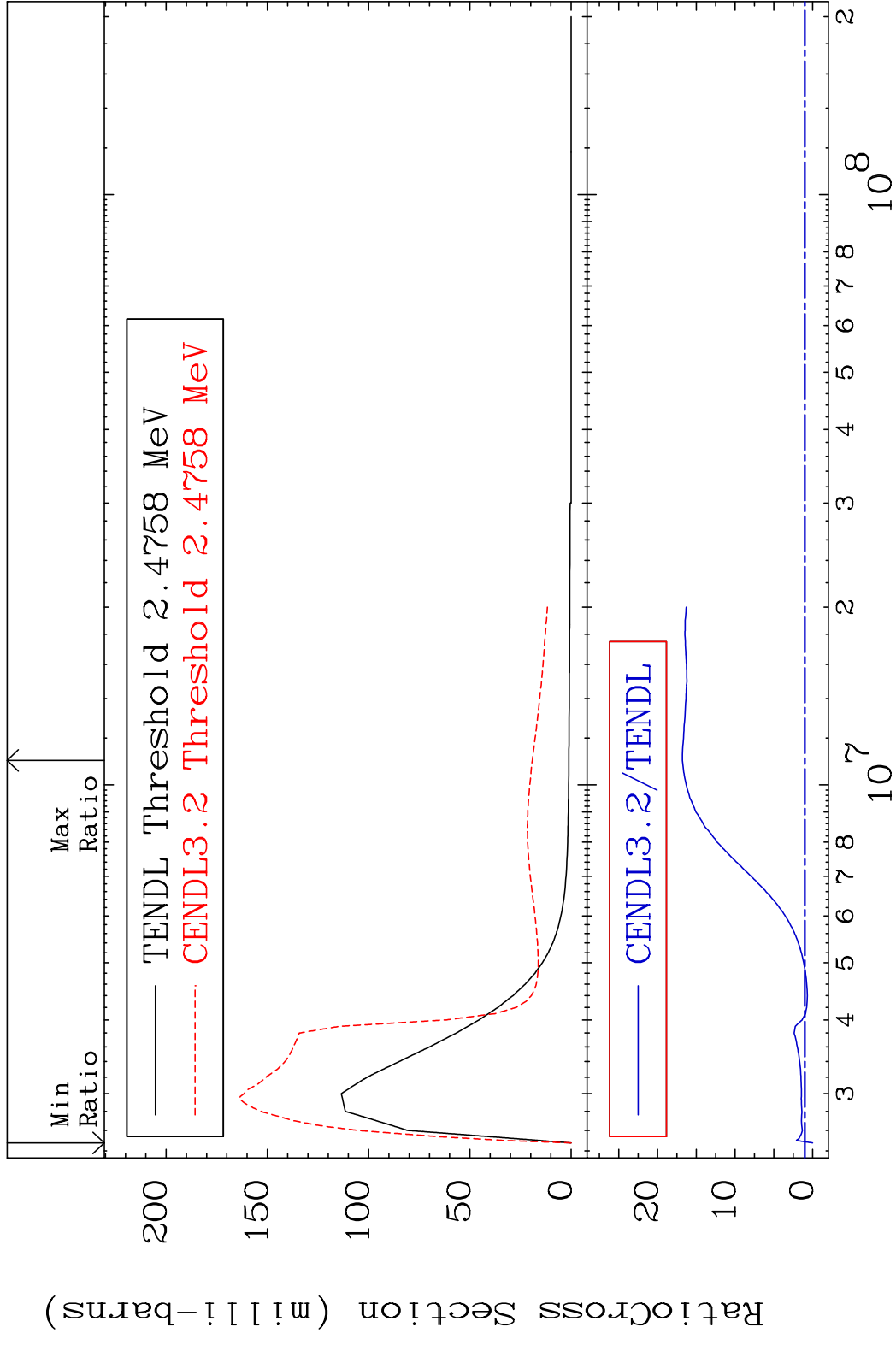
MAT 5031 MT= 56 (n,n') Level 50-Sn-114
 Cross Section -100.0 To 238.8 %



MAT 5031 MT= 57 (n, n') Level 50-Sn-114
 Cross Section -95.25 To 9656. %

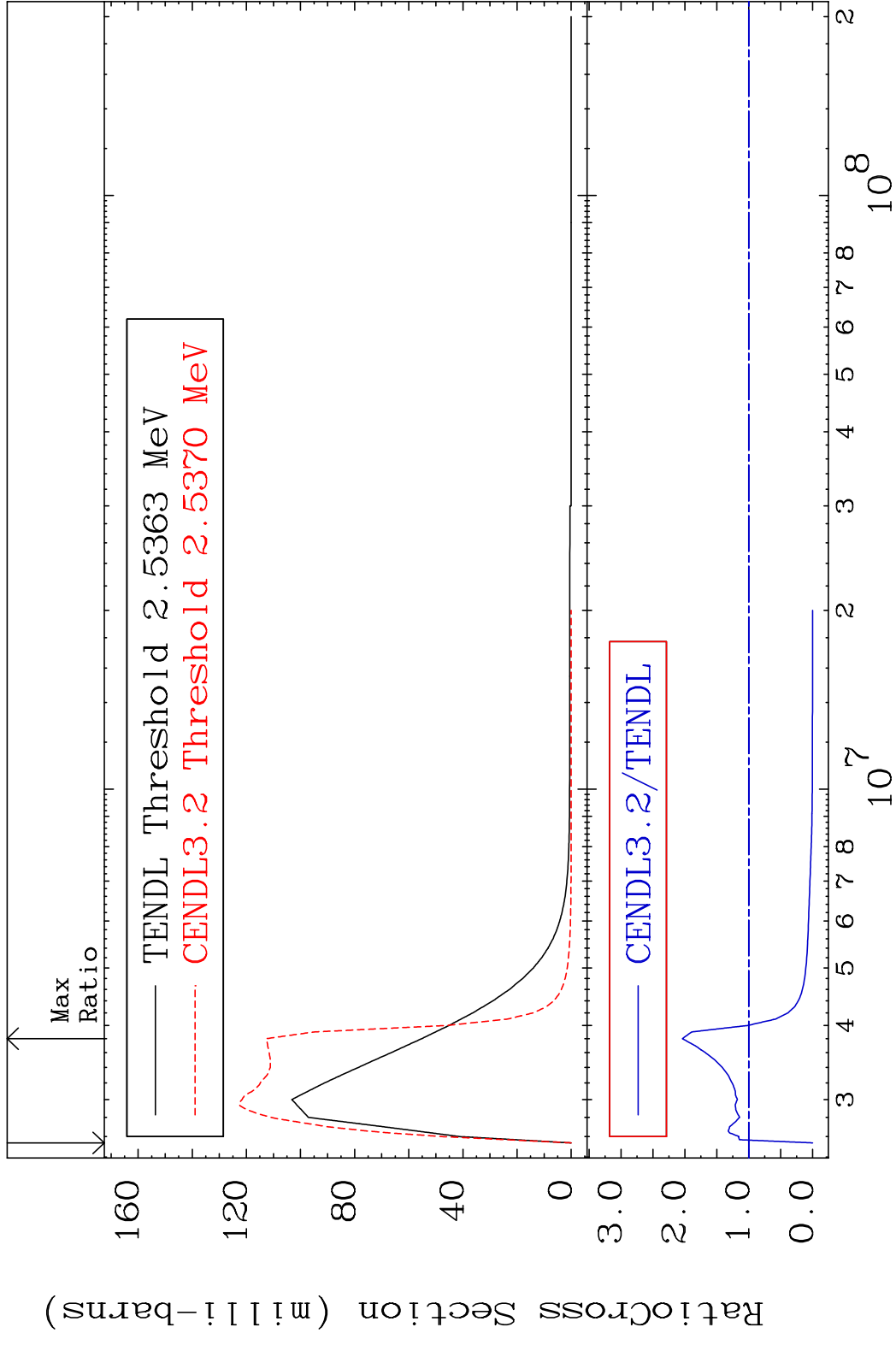


MAT 5031 MT= 58 (n,n') Level 50-Sn-114
 Cross Section -100.0 To 1579. %

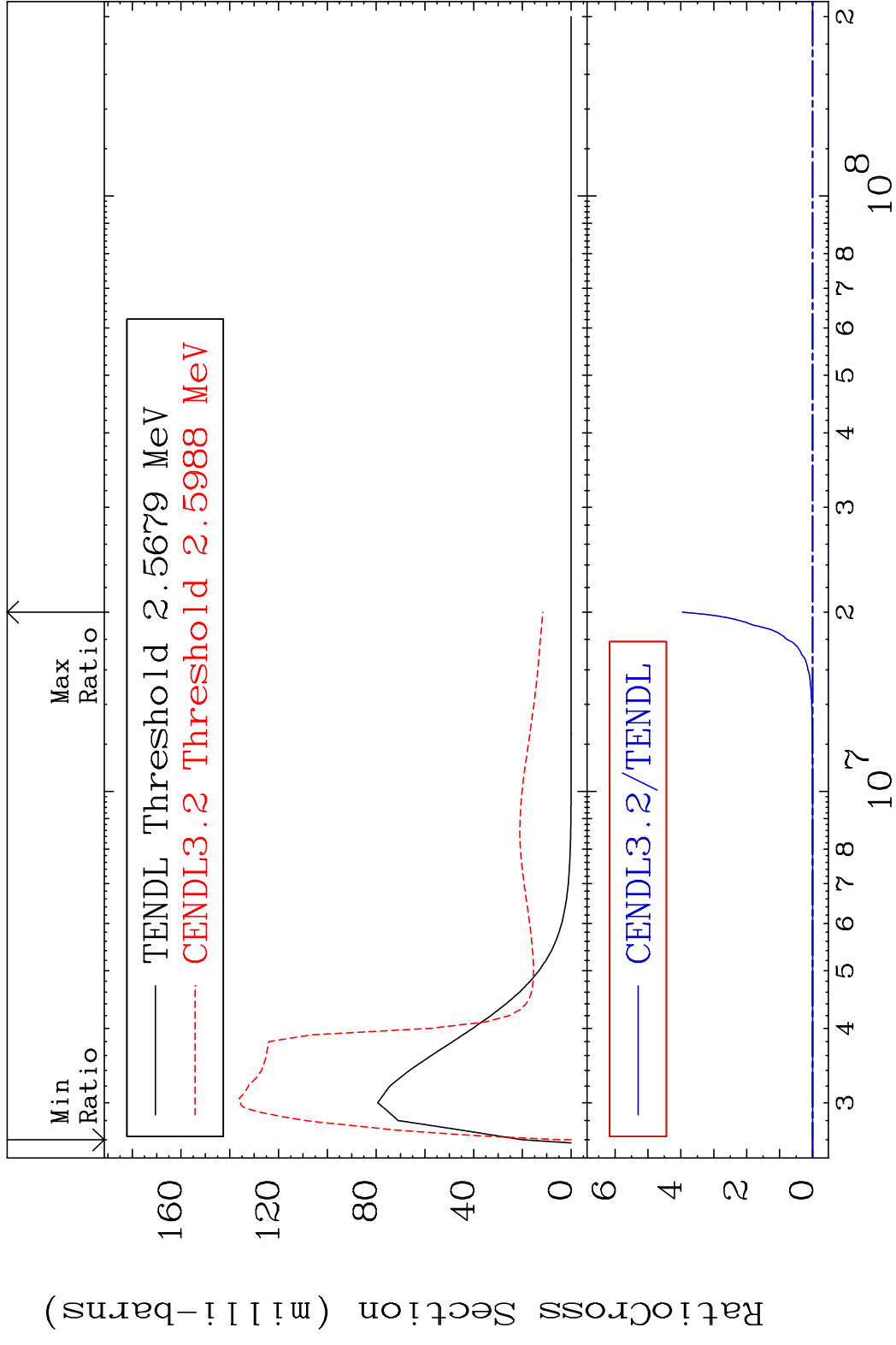


15 50-Sn-114

MAT 5031 MT= 59 (n,n') Level 50-Sn-114
 Cross Section -100.0 To 104.0 %

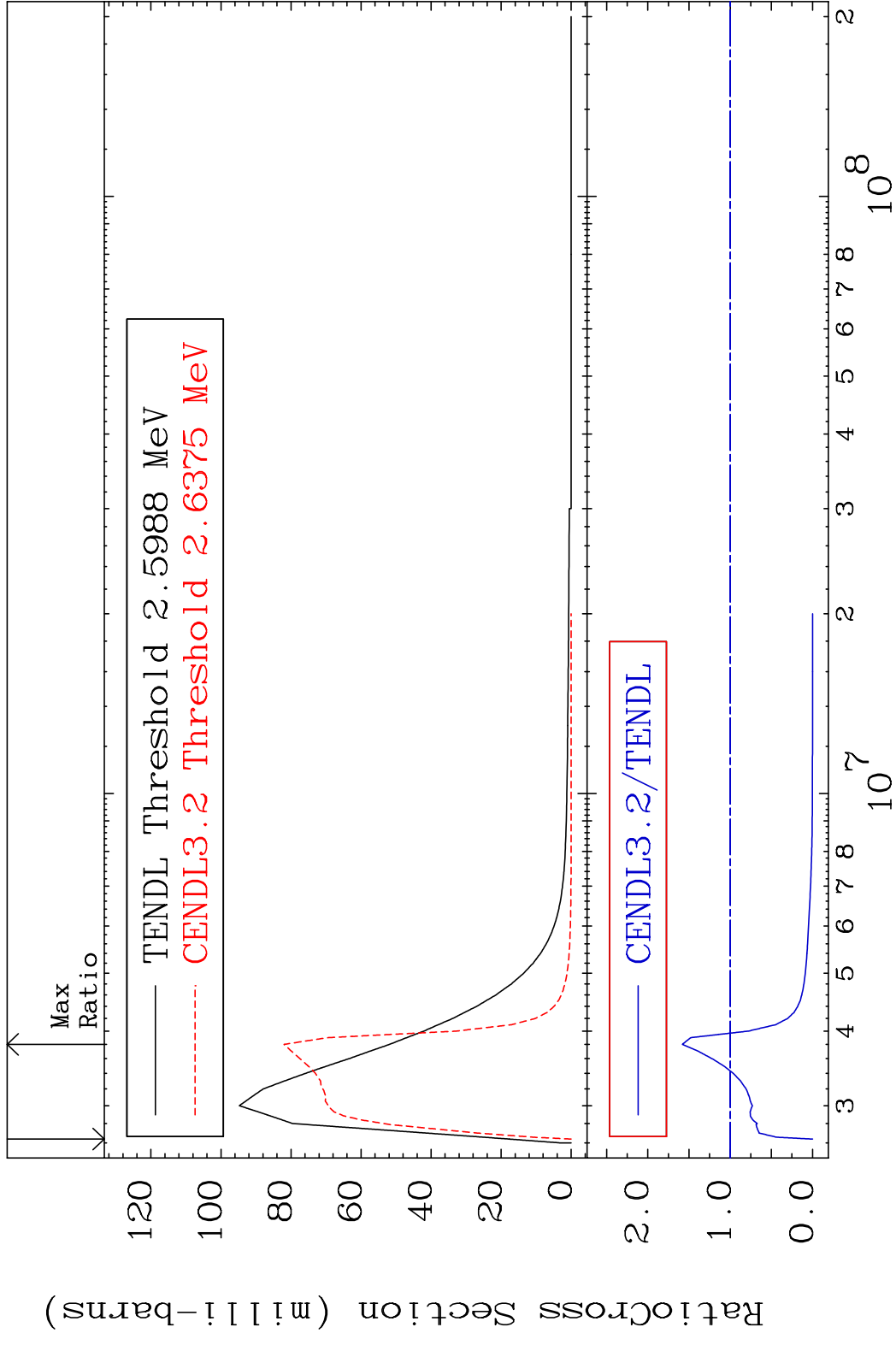


MAT 5031 MT= 60 (n, n') Level 50-Sn-114
 Cross Section -100.0 To 9999. %

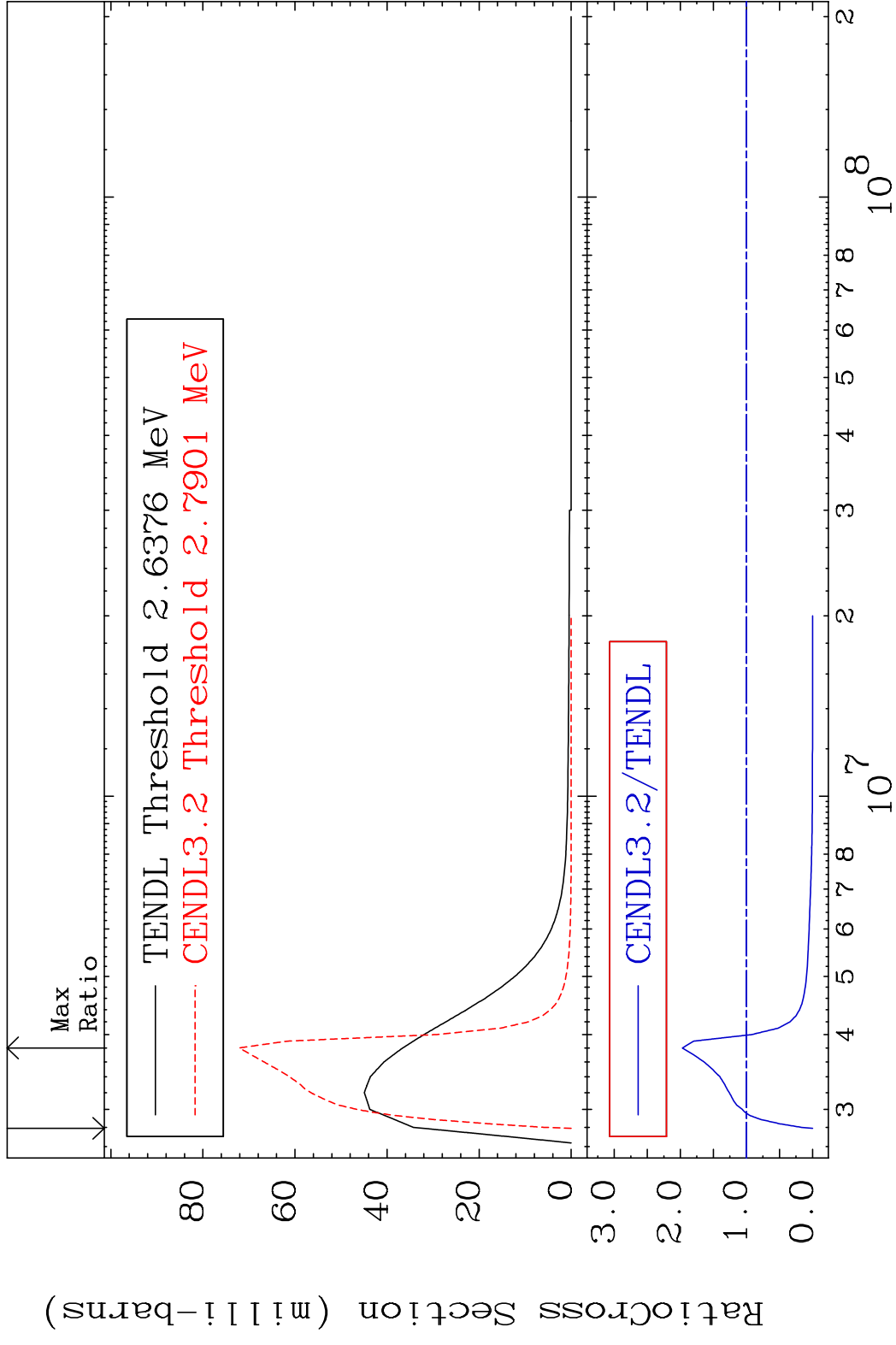


17 50-Sn-114

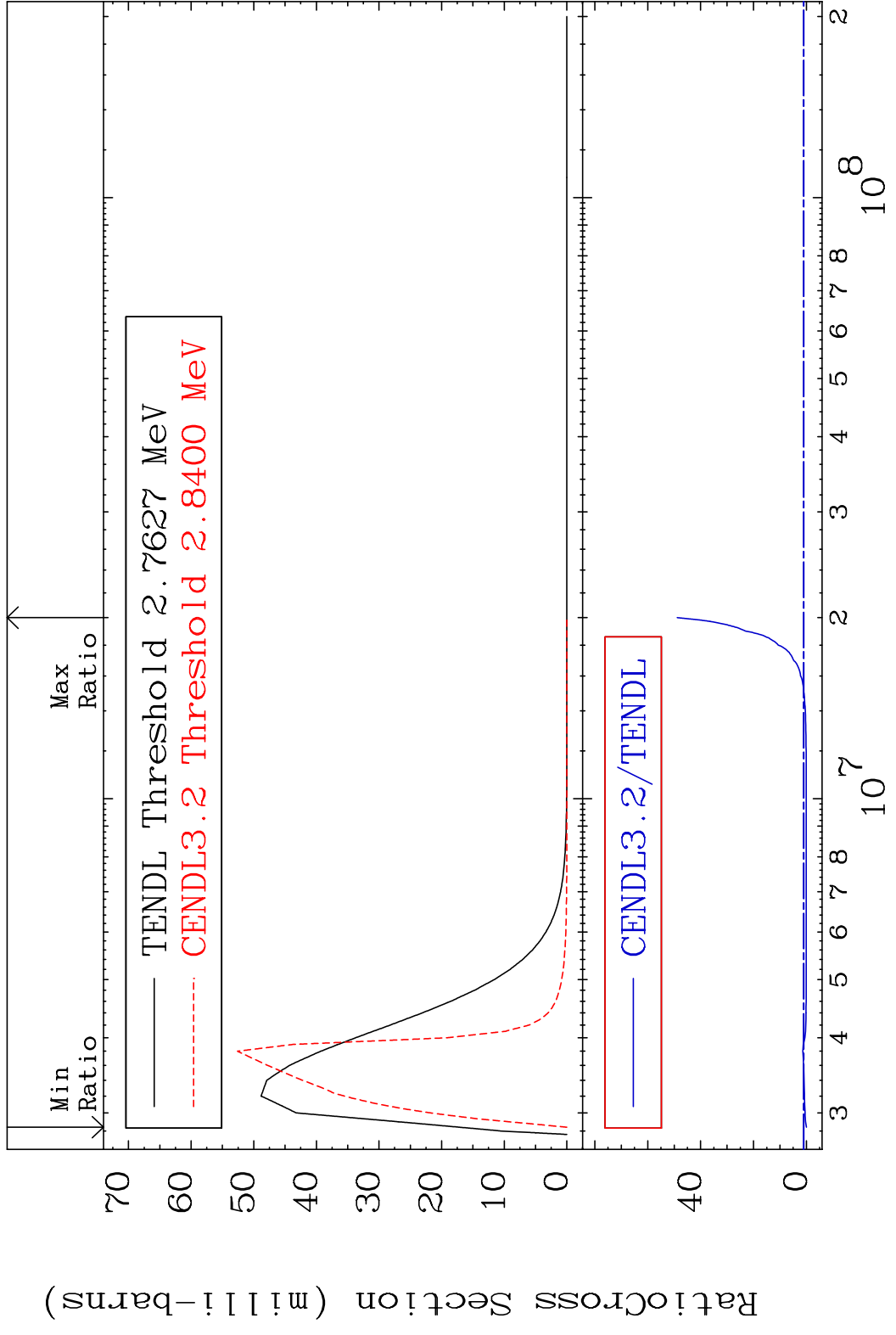
MAT 5031 MT= 61 (n,n') Level 50-Sn-114
 Cross Section -100.0 To 58.06 %



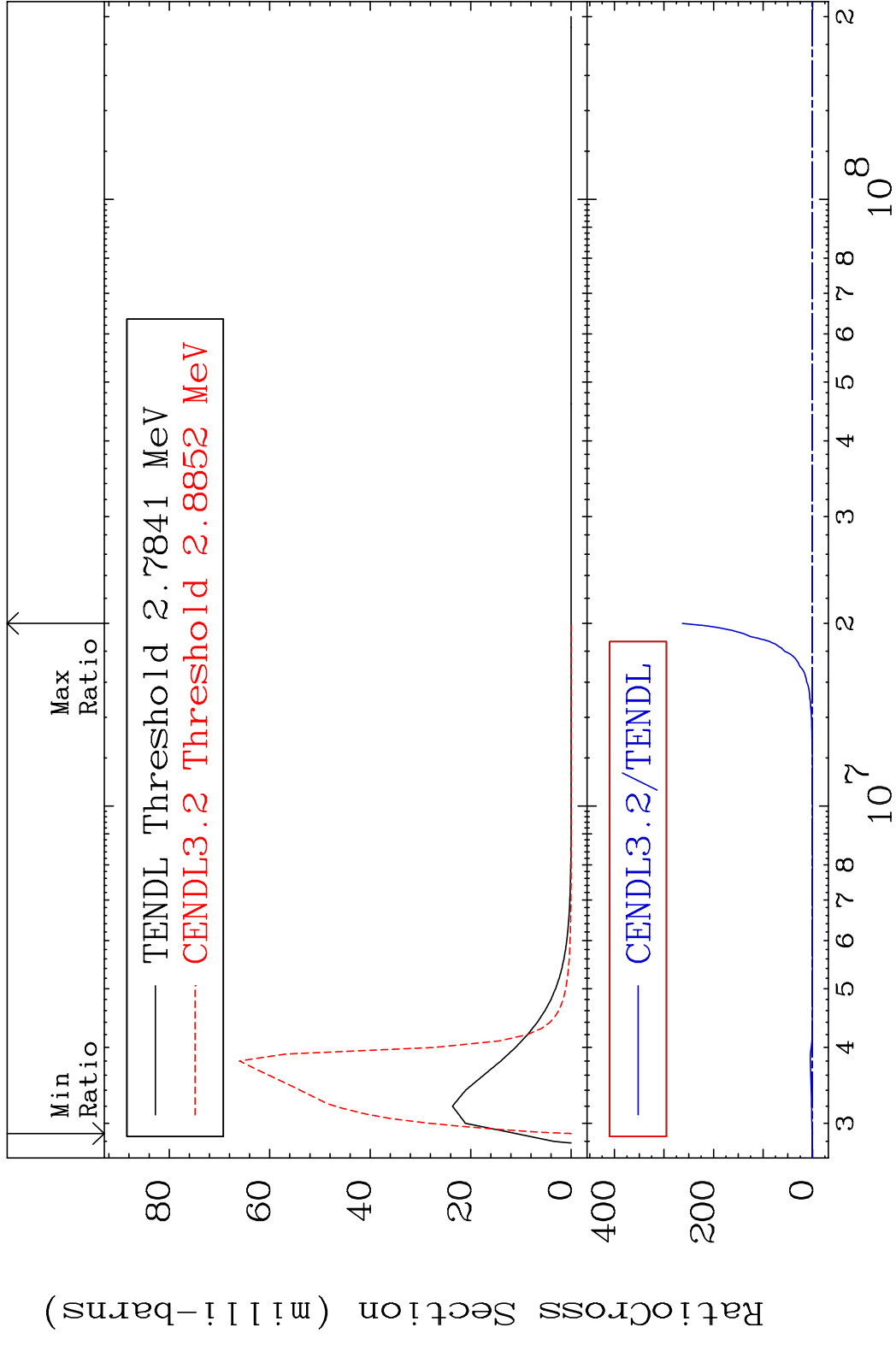
MAT 5031 MT= 62 (n, n') Level 50-Sn-114
 Cross Section -100.0 To 96.94 %



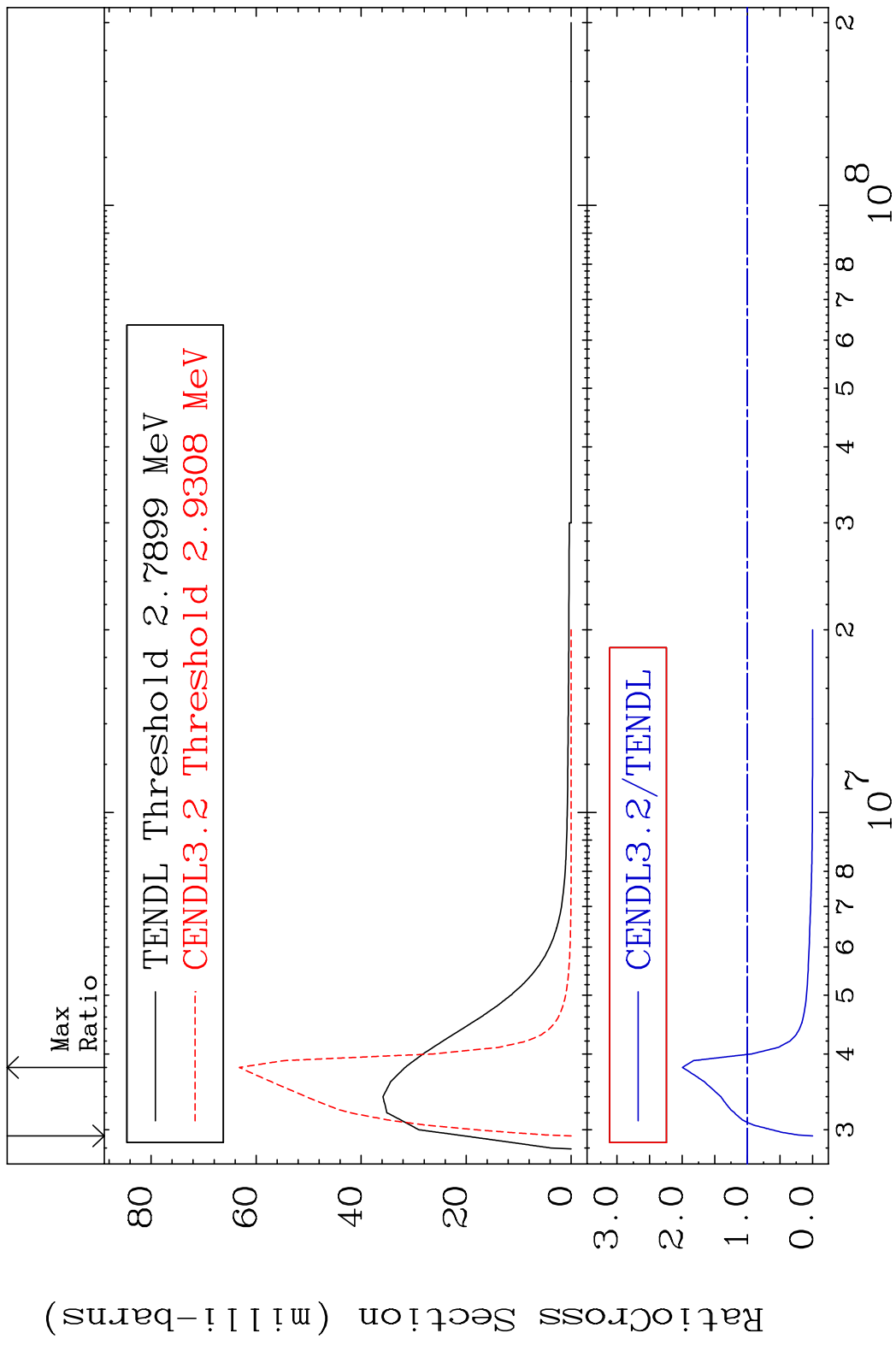
MAT 5031 MT= 63 (n, n') Level 50-Sn-114
 Cross Section -100.0 To 4786. %



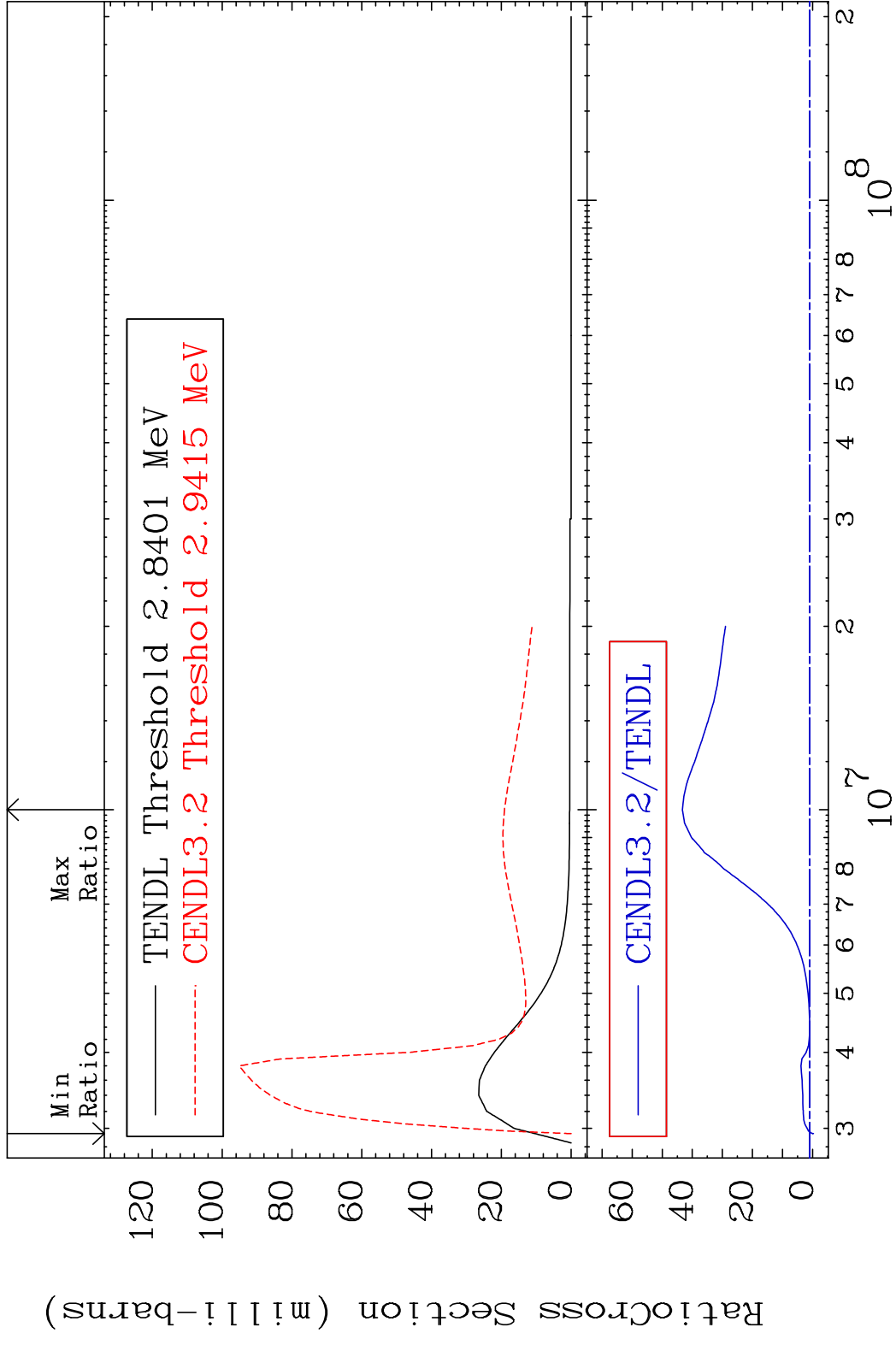
MAT 5031 MT= 64 (n, n') Level 50-Sn-114
 Cross Section -100.0 To 9999. %



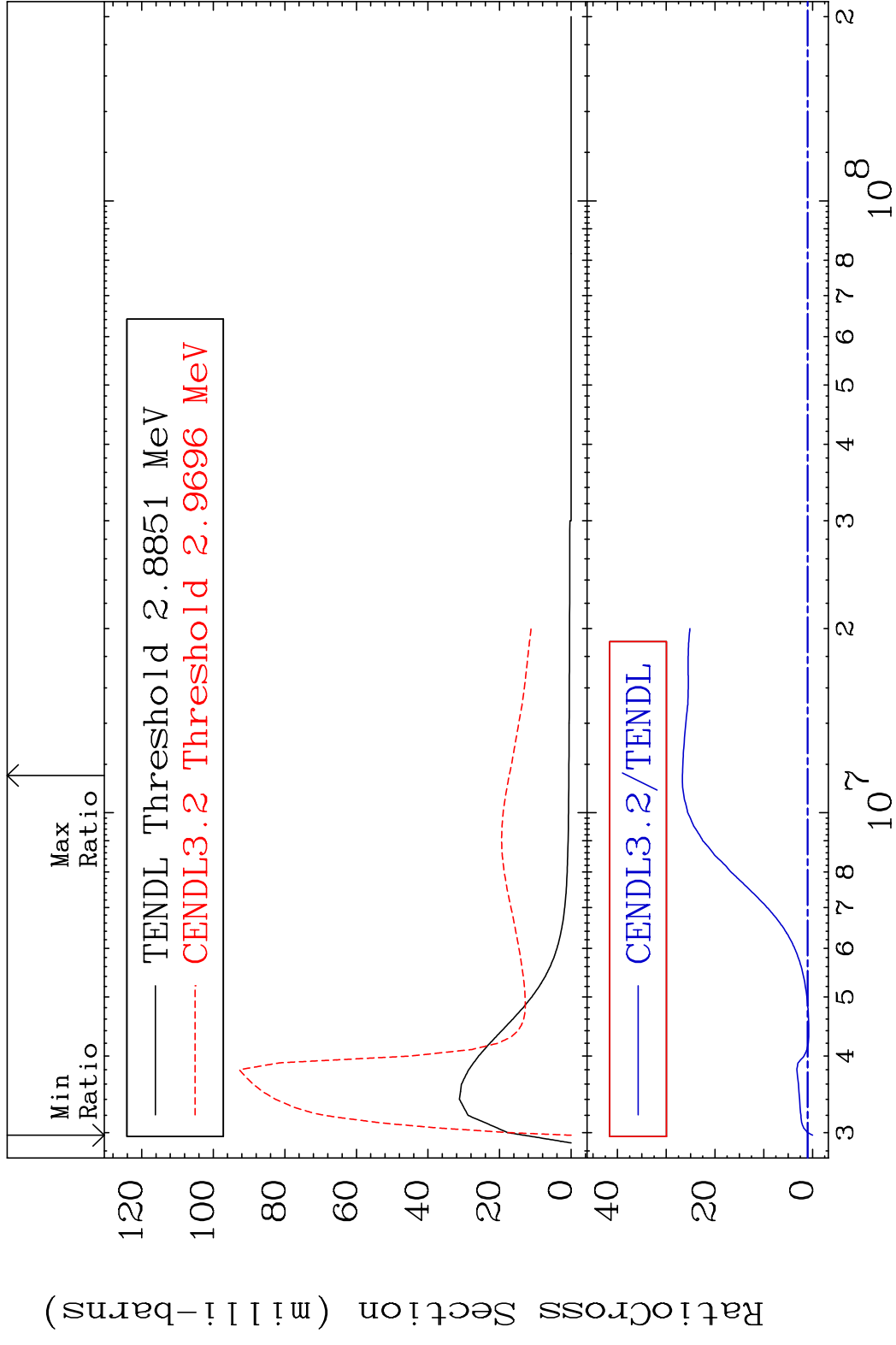
MAT 5031 MT= 65 (n,n') Level 50-Sn-114
 Cross Section -100.0 To 99.72 %



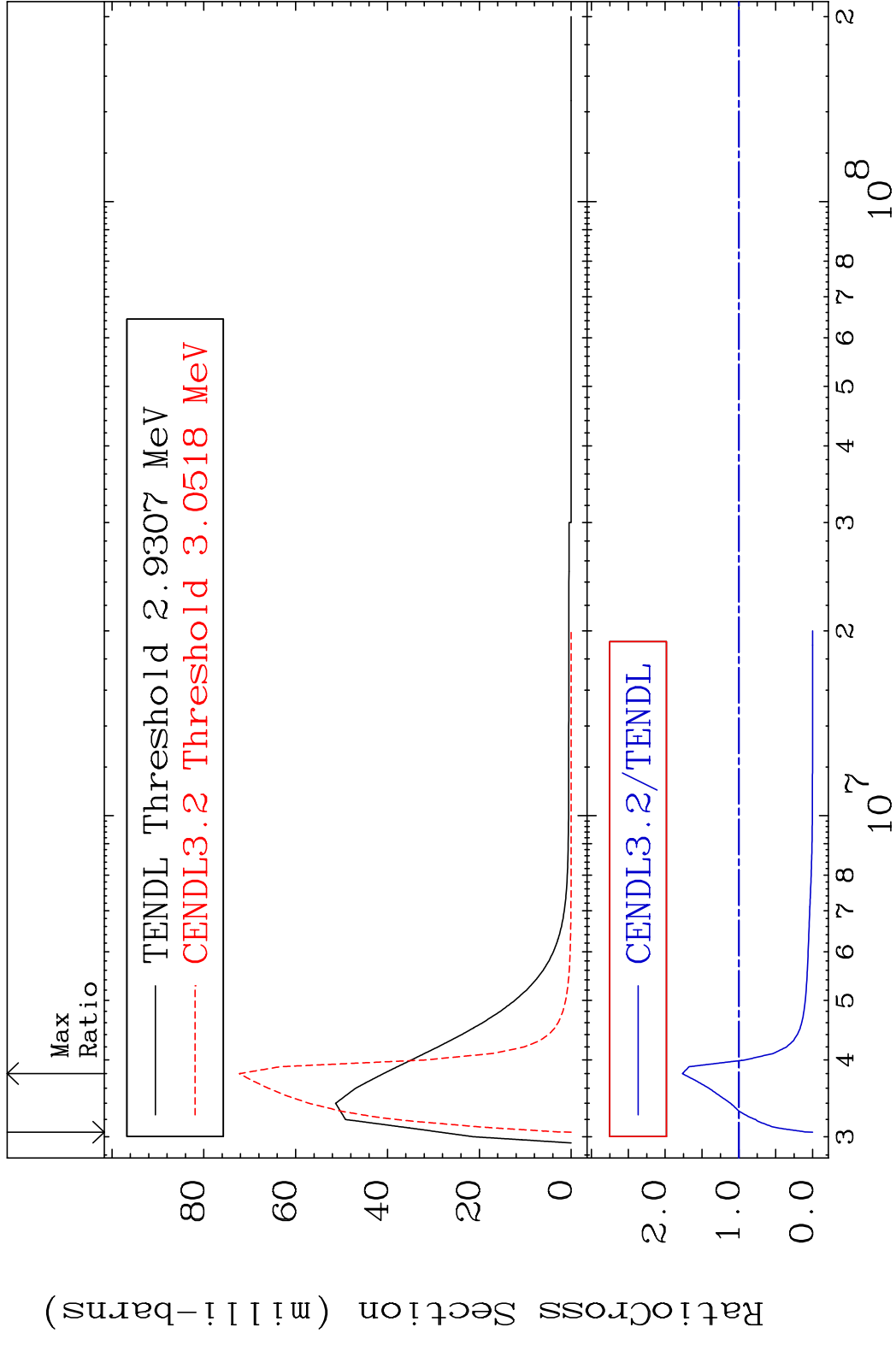
MAT 5031 MT= 66 (n,n') Level 50-Sn-114
 Cross Section -100.0 To 4231. %



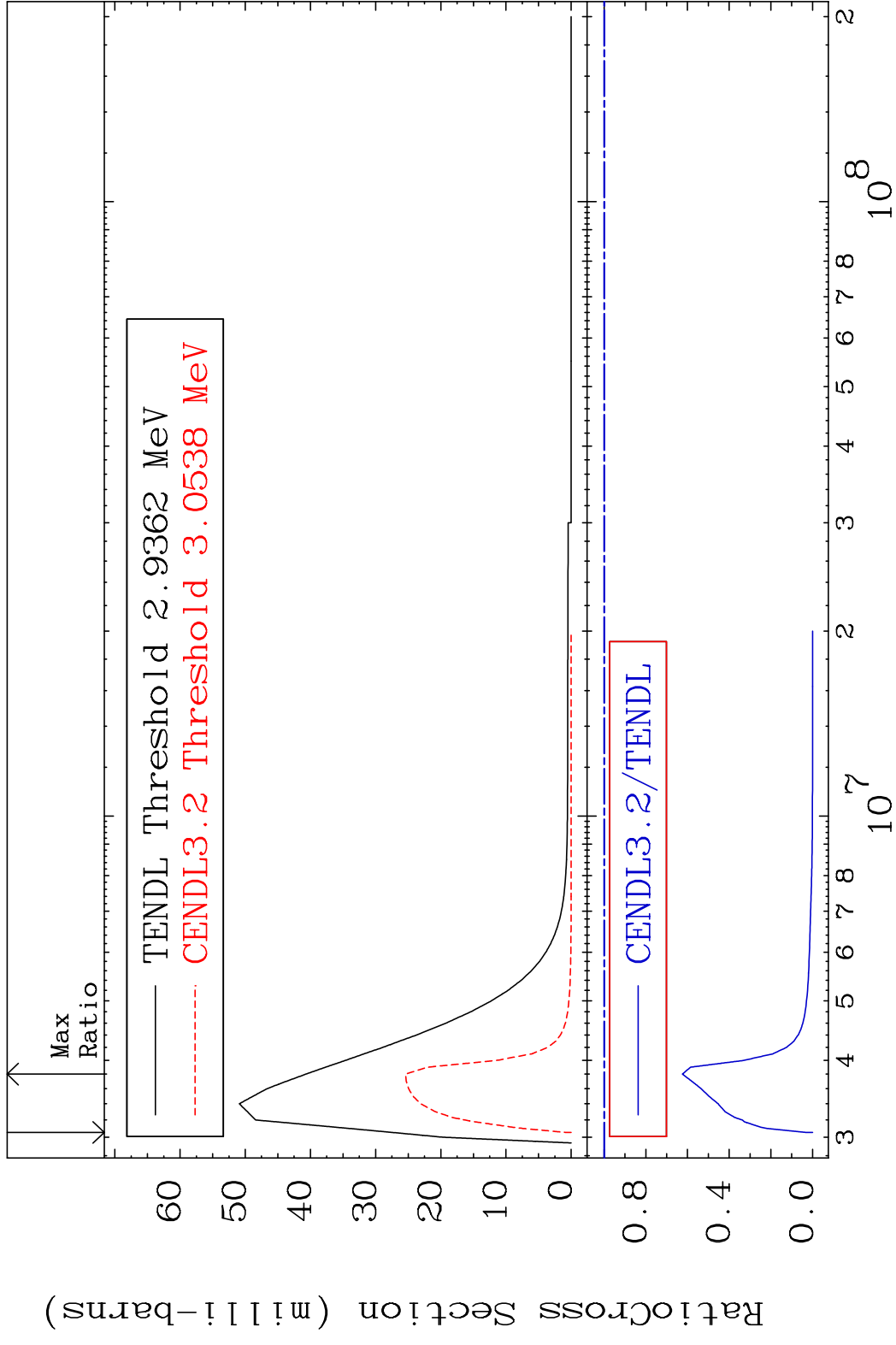
MAT 5031 MT= 67 (n,n') Level 50-Sn-114
 Cross Section -100.0 To 2569. %



MAT 5031 MT= 68 (n,n') Level 50-Sn-114
 Cross Section -100.0 To 76.68 %



MAT 5031 MT= 69 (n,n') Level 50-Sn-114
 Cross Section -100.0 To -37.52%

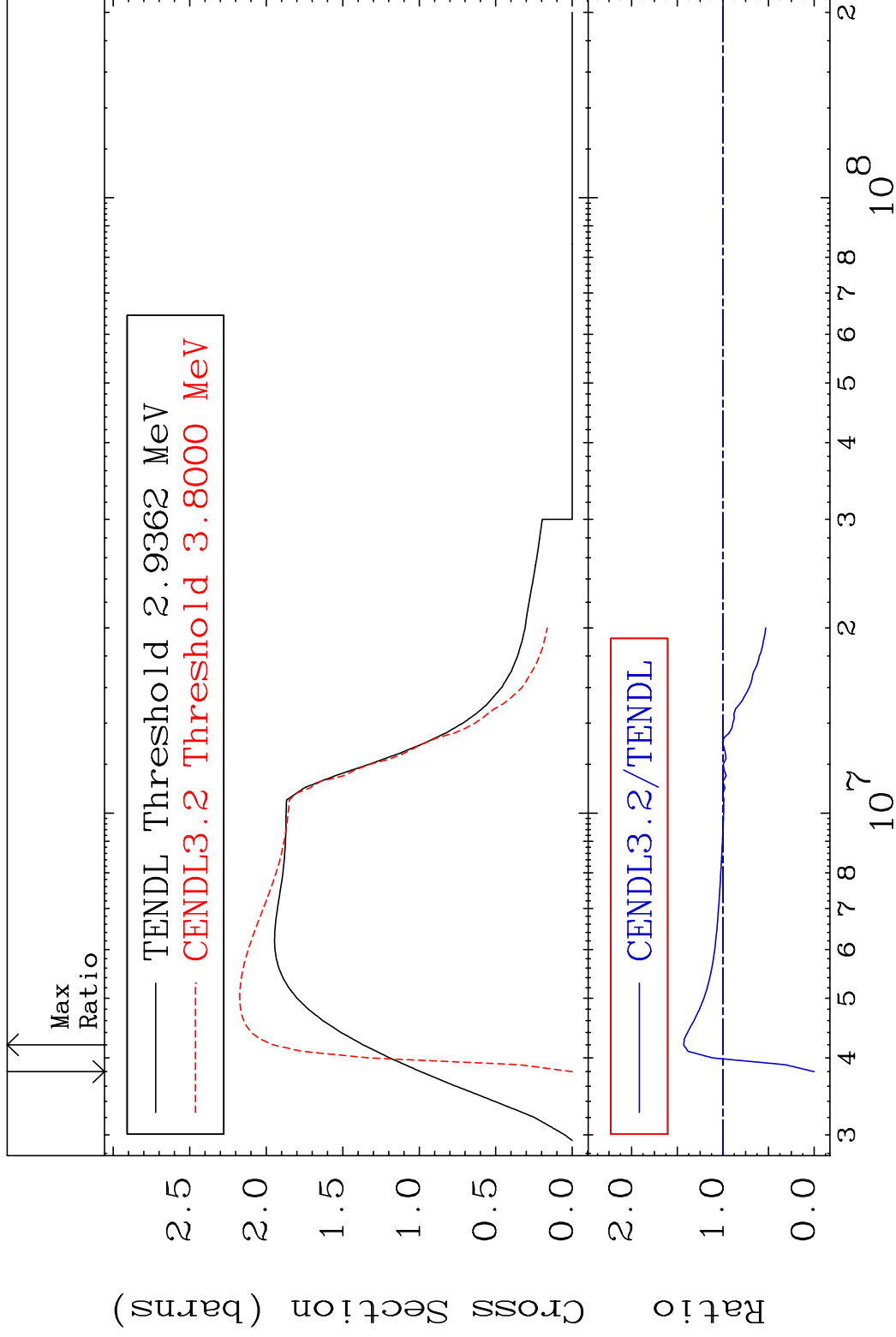


MAT 5031

(n,n') Continuum

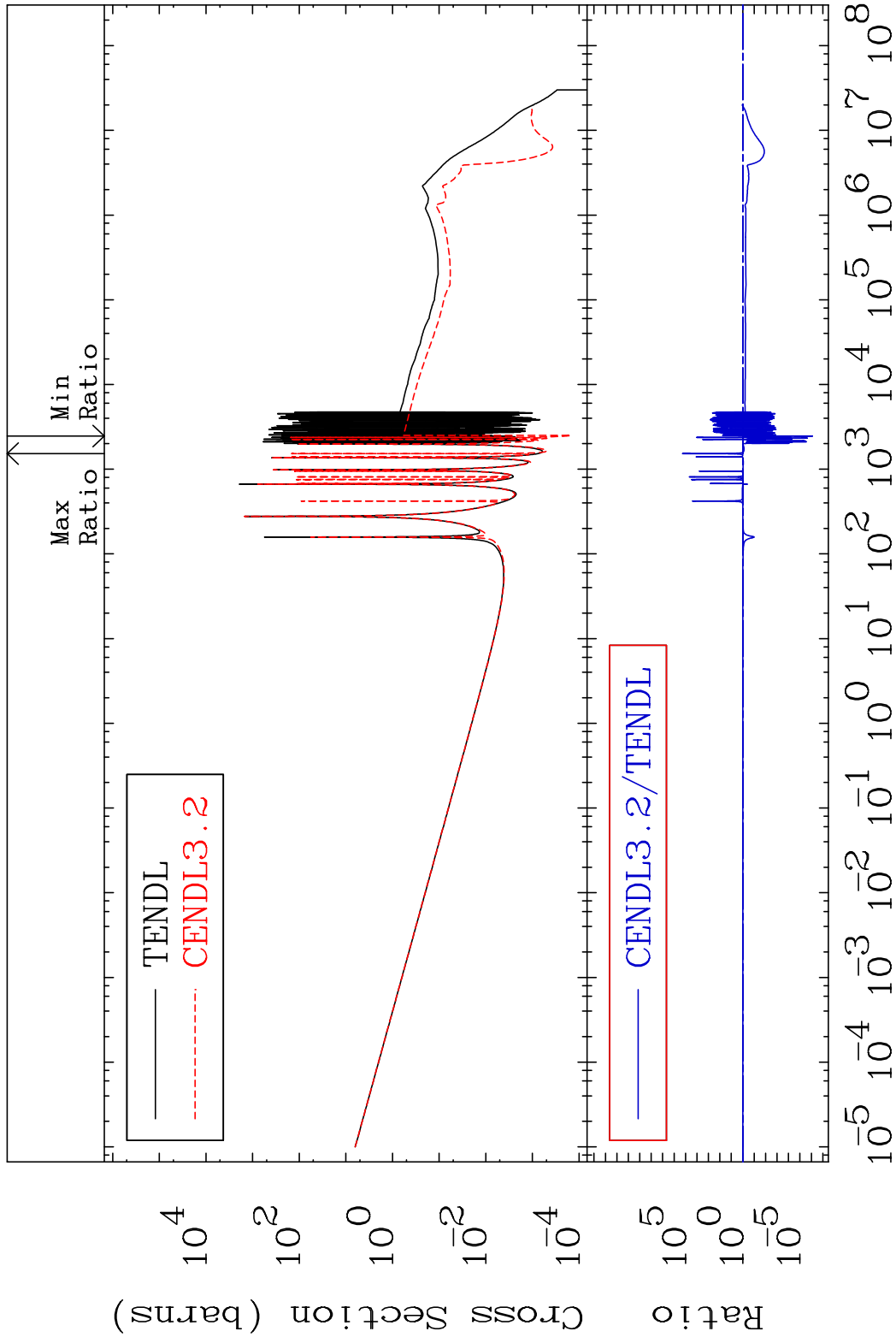
50-Sn-114

Cross Section -100.0 To 43.03 %



MAT 5031

(n, γ)
Cross Section -100.0 To 9999. %
50-Sn-114



28

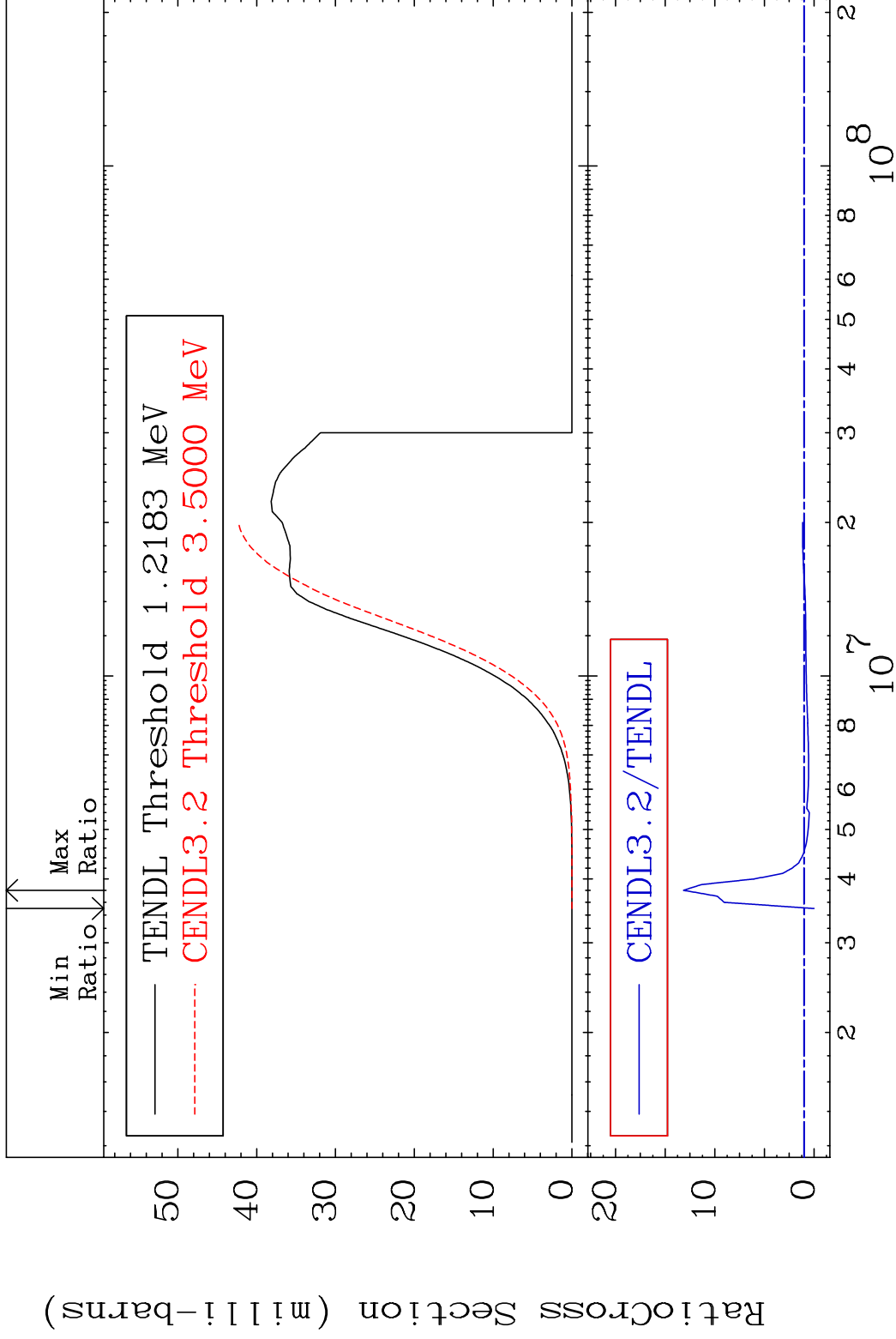
Incident Energy (eV) 50-Sn-114

MAT 5031

(n,p)

50-Sn-114

Cross Section -100.0 To 1215. %



29

Incident Energy (eV)

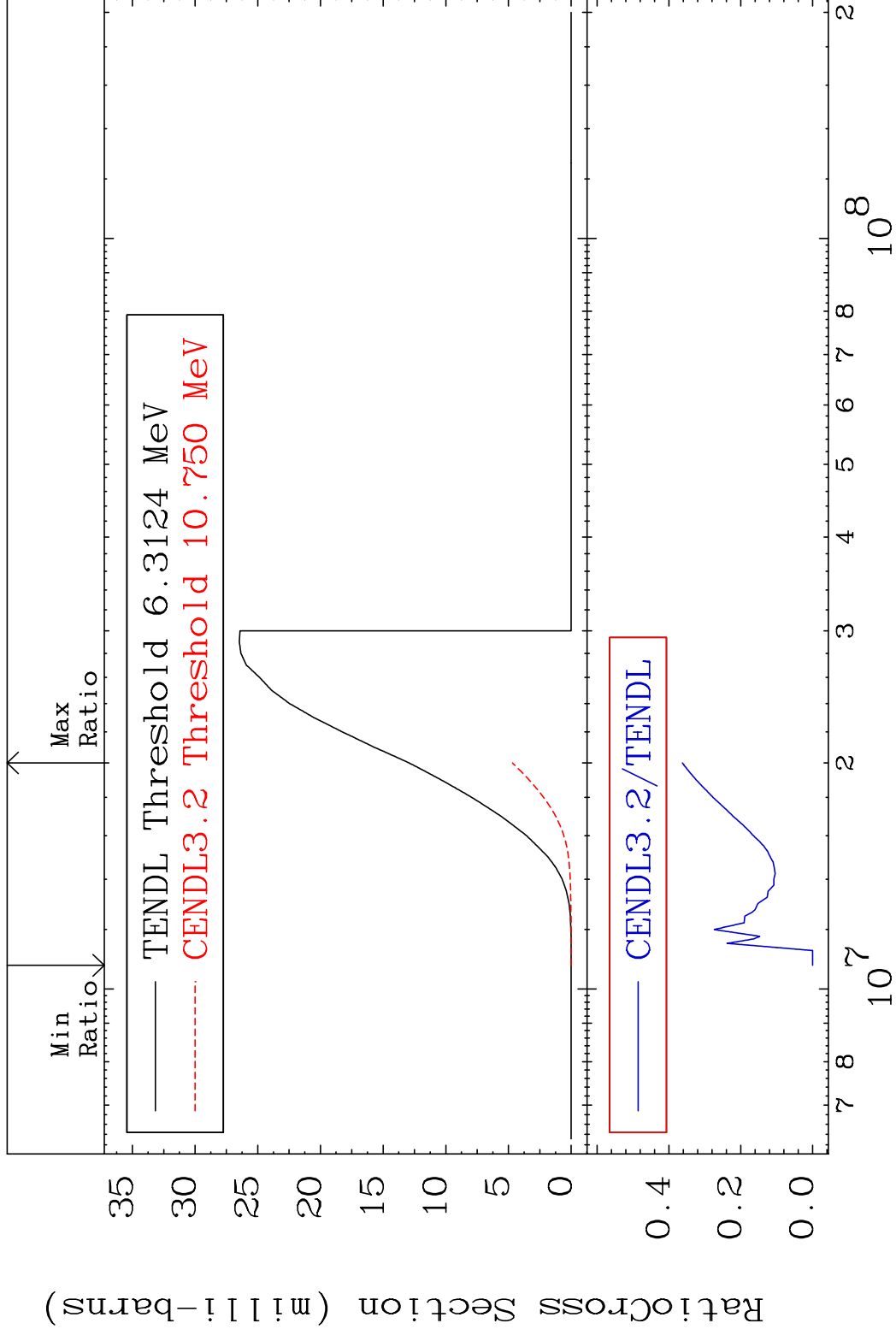
50-Sn-114

MAT 5031

(n,d)

50-Sn-114

Cross Section -100.0 To -63.74%



30

Incident Energy (eV)

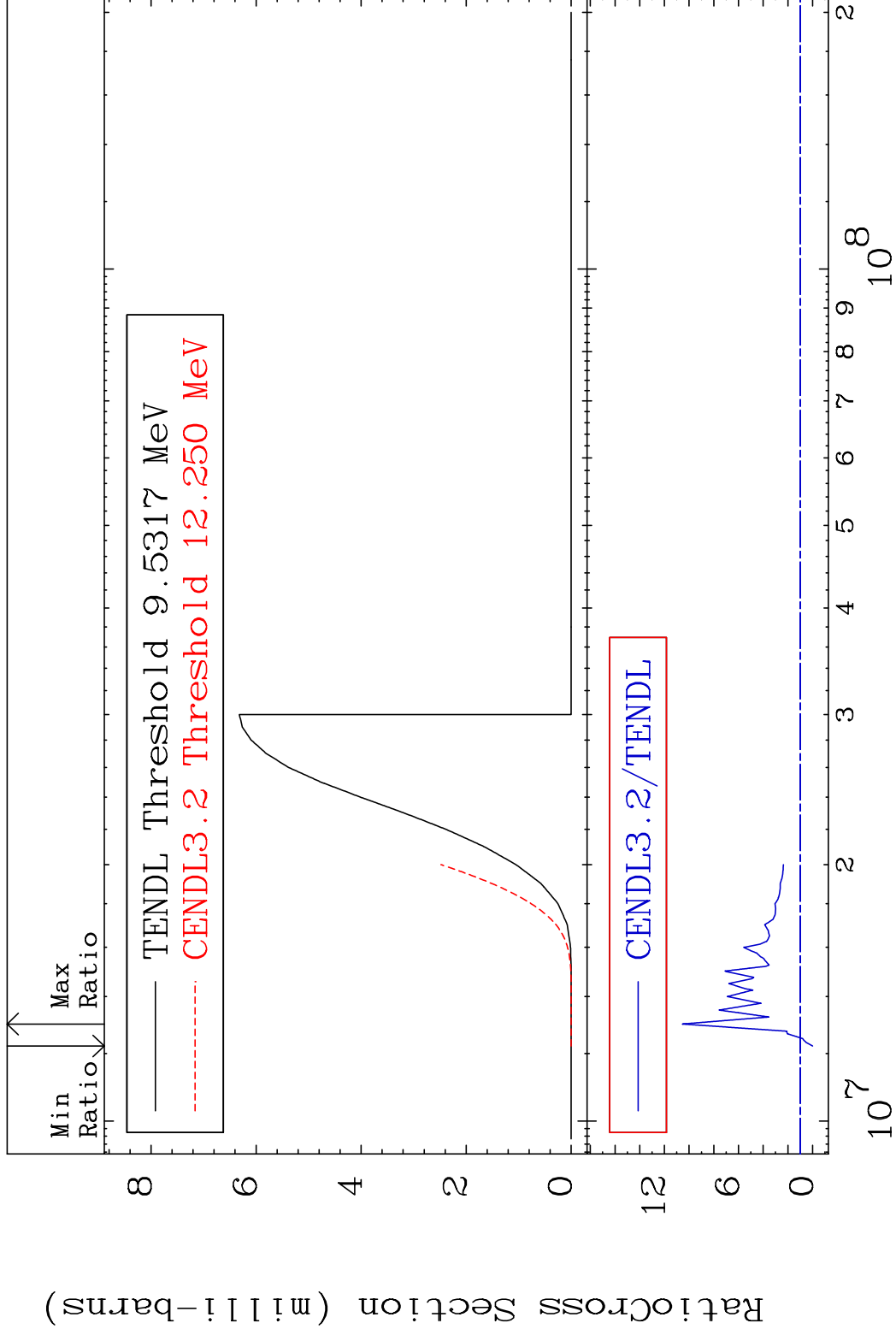
50-Sn-114

MAT 5031

(n, t)

50-Sn-114

Cross Section -100.0 To 954.6 %



31

Incident Energy (eV)

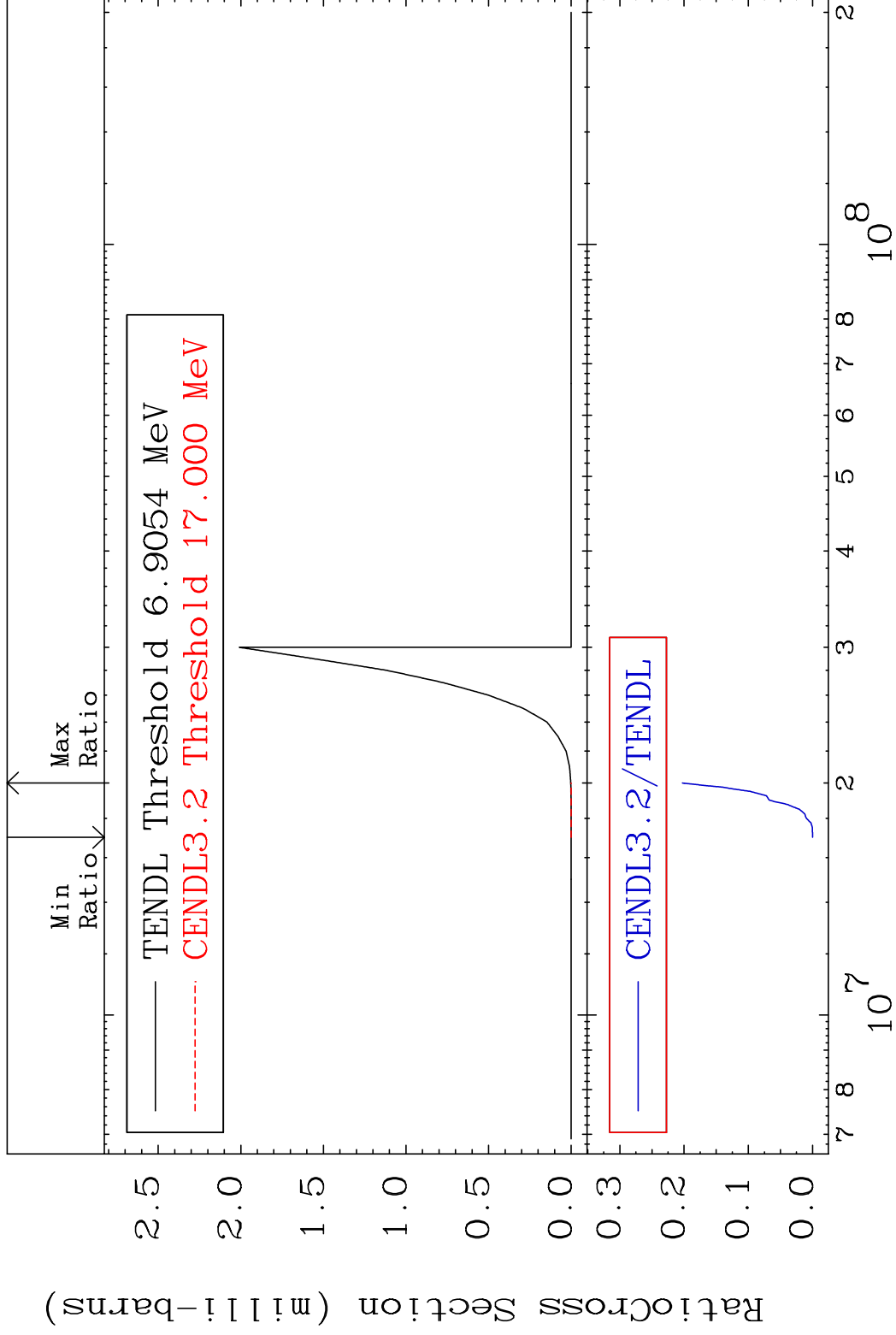
50-Sn-114

MAT 5031

(n, He-3)

50-Sn-114

Cross Section -100.0 To -79.73%



32

Incident Energy (eV)

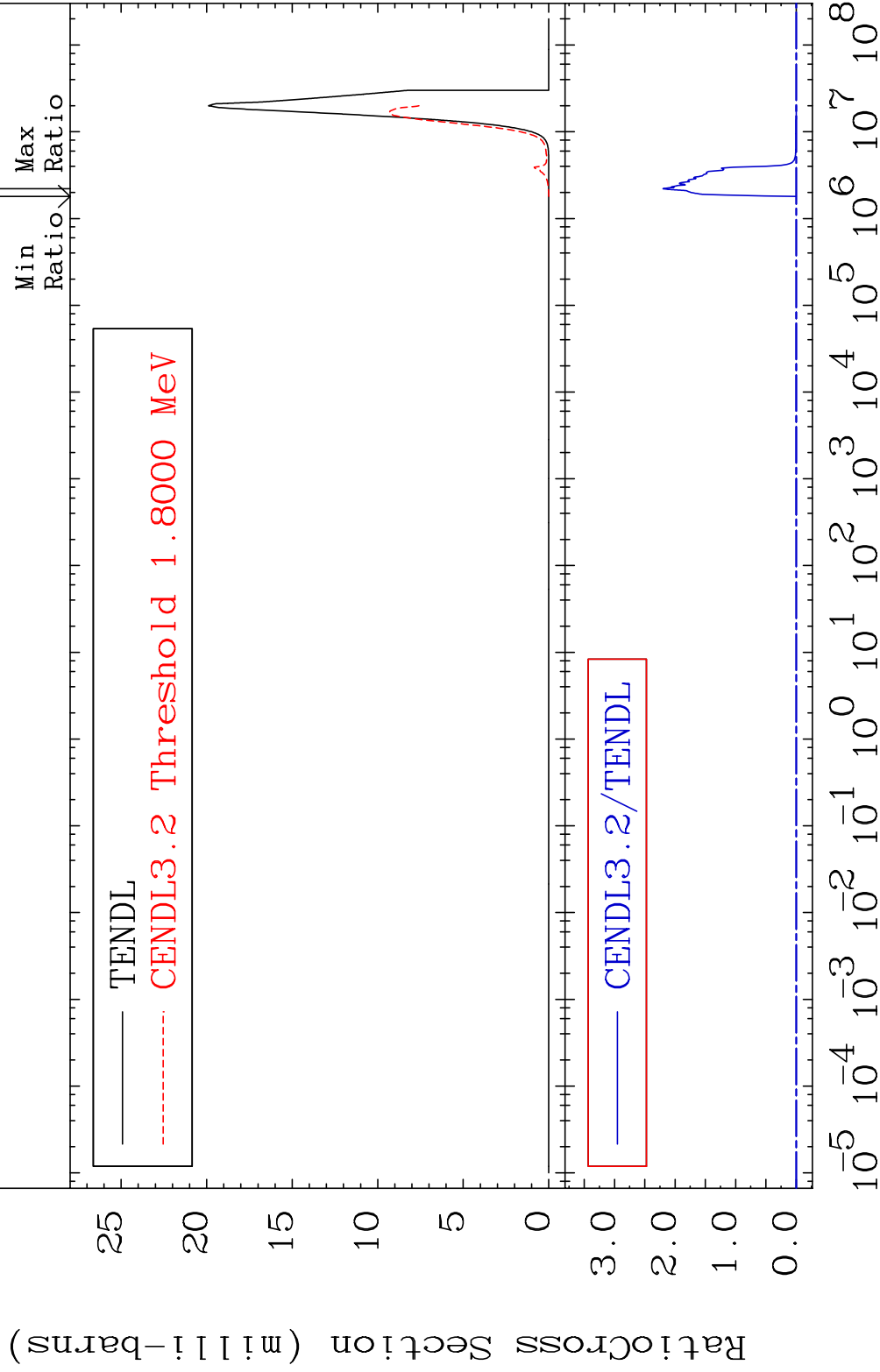
50-Sn-114

MAT 5031

(n, α)

50-Sn-114

Cross Section -100.0 To 9999. %

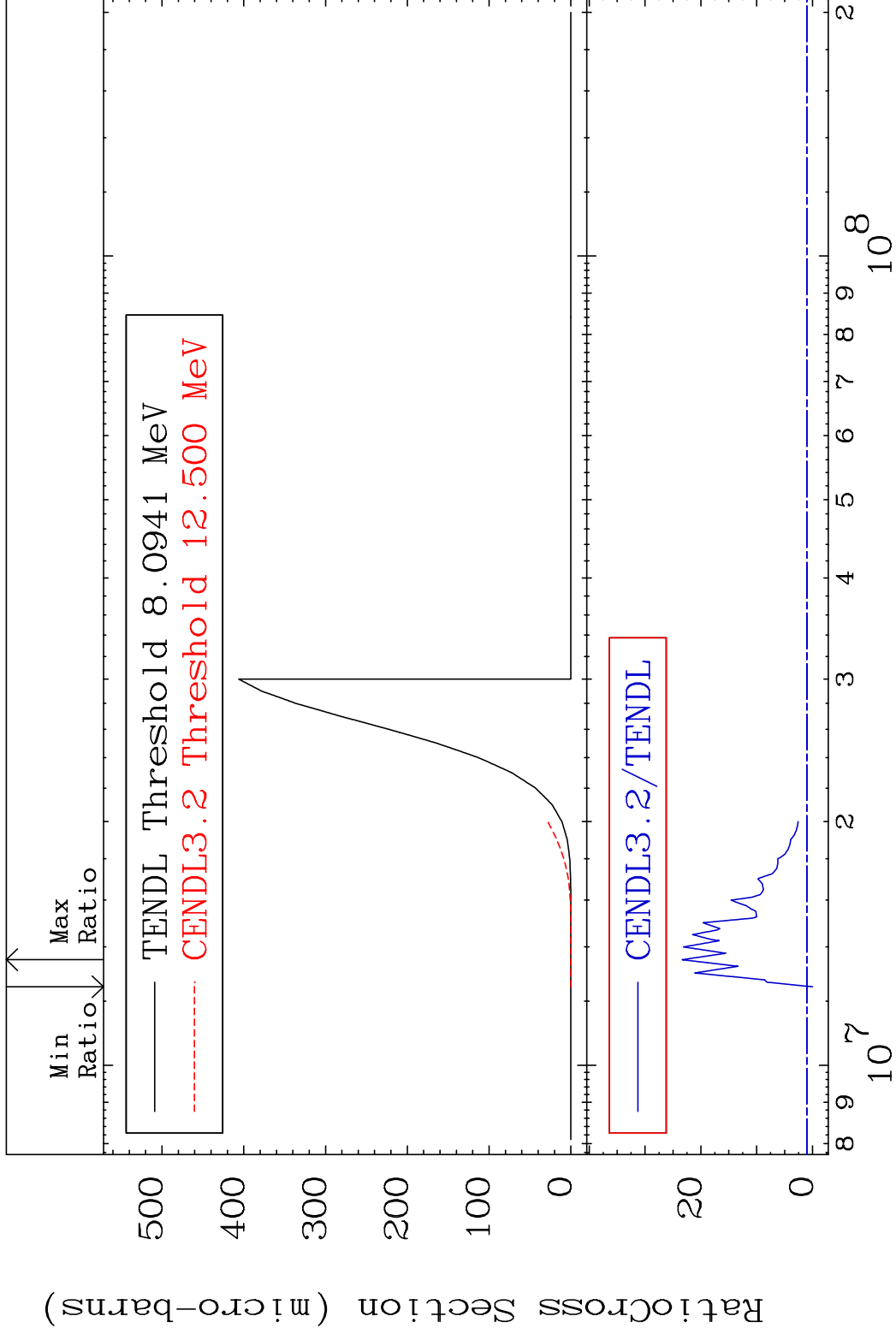


MAT 5031

(n,2p)

50-Sn-114

Cross Section -100.0 To 2236. %

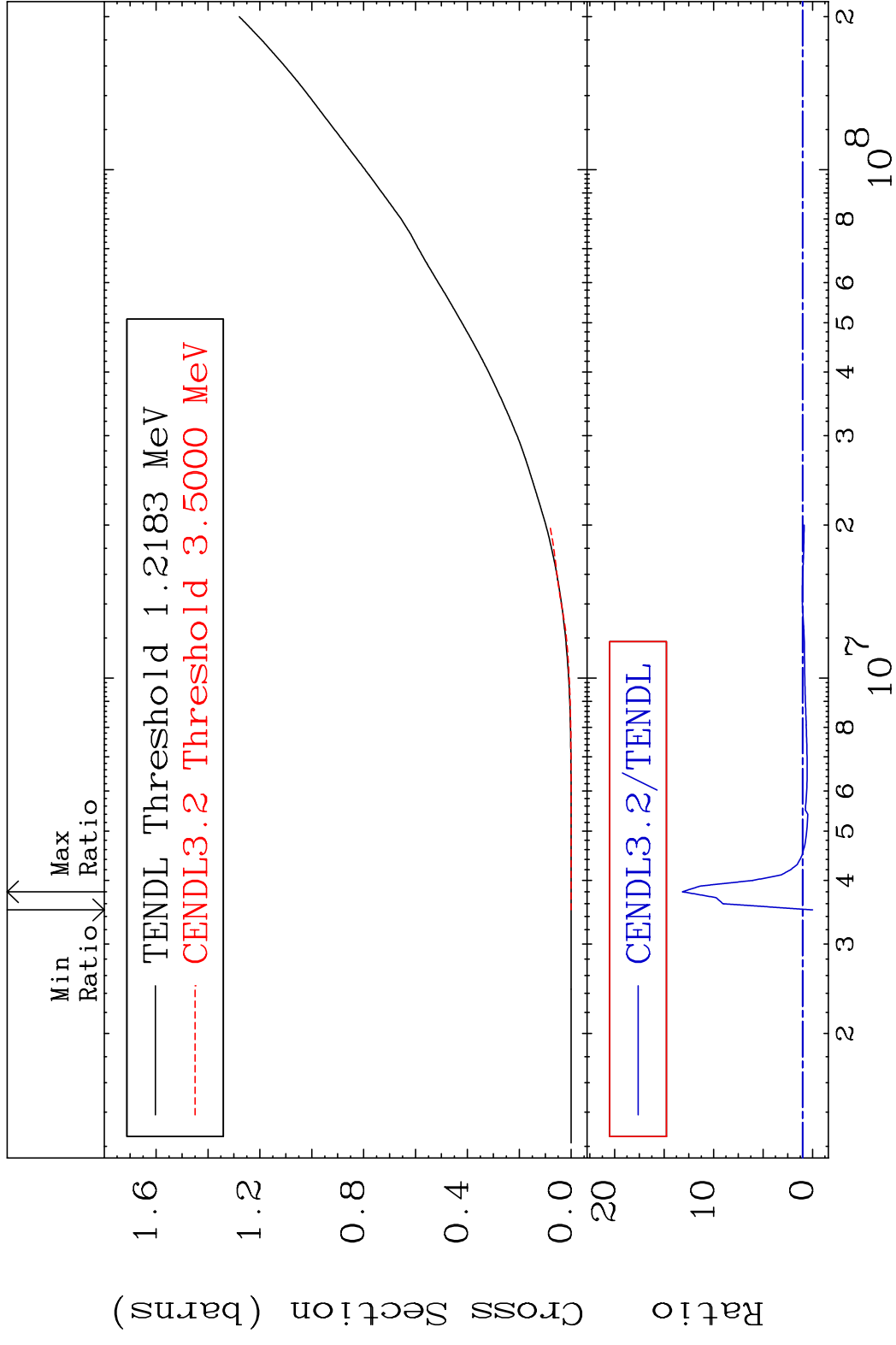


34

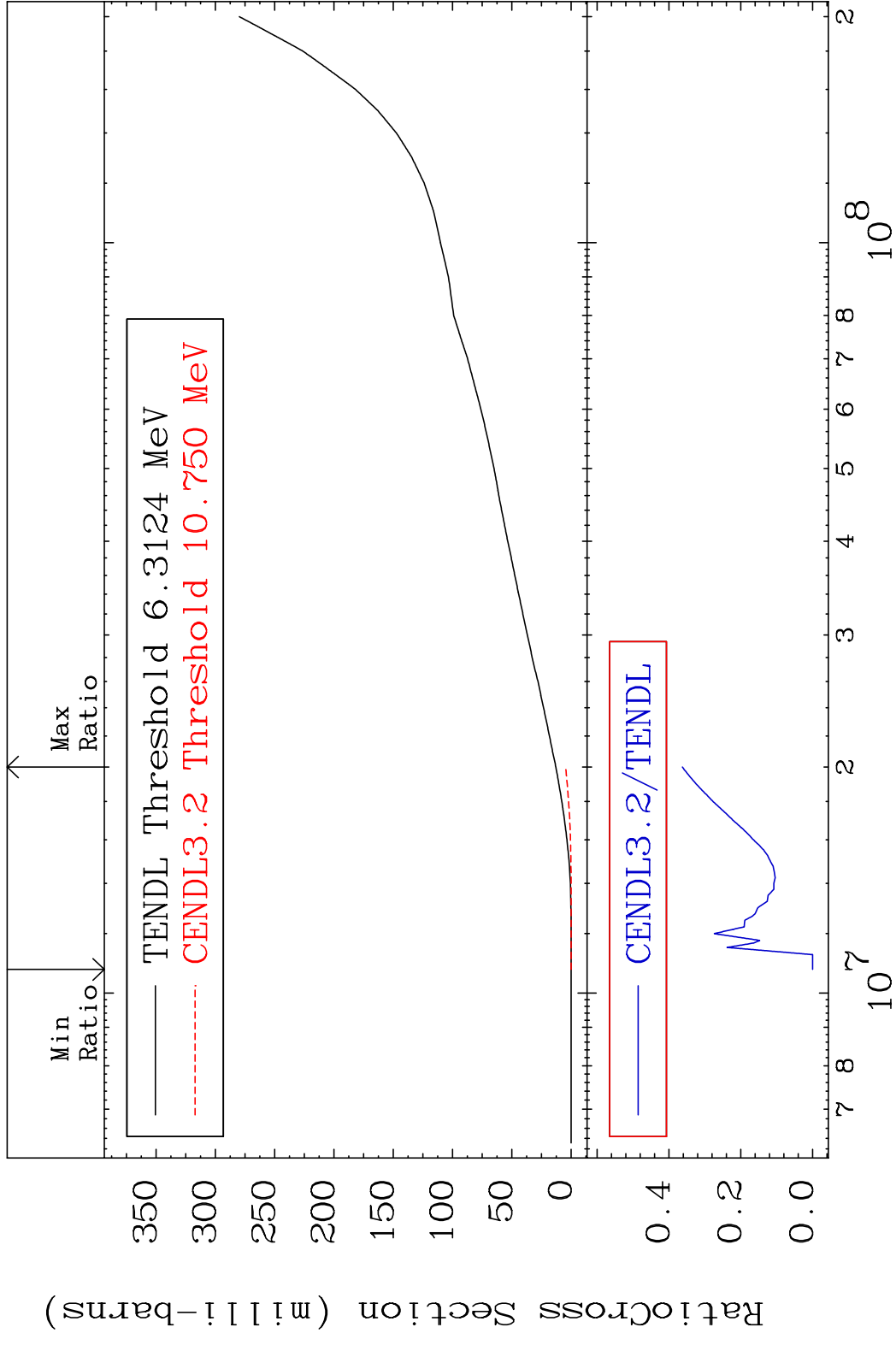
Incident Energy (eV)

50-Sn-114

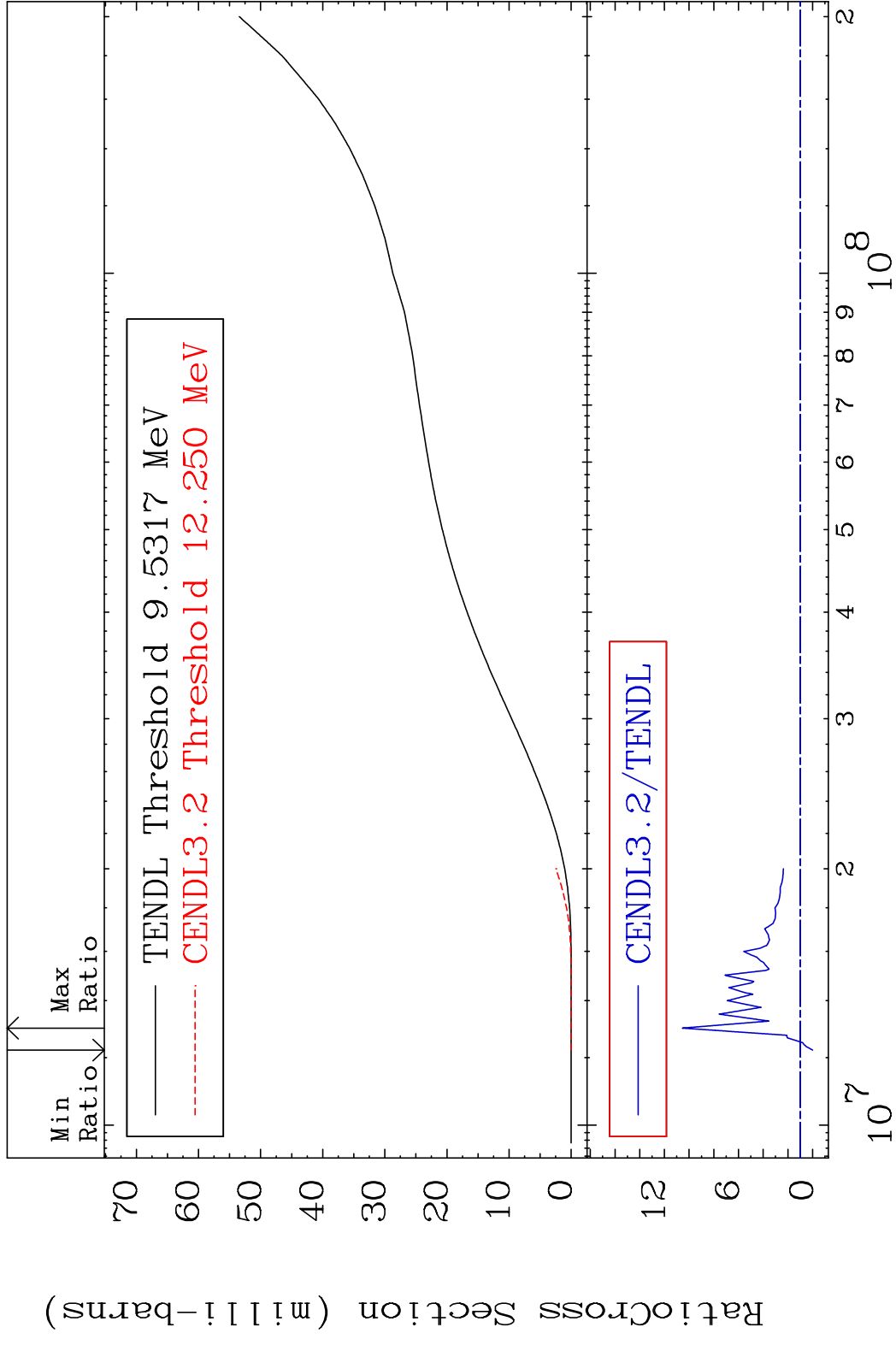
MAT 5031 Hydrogen Production 50-Sn-114
 Cross Section -100.0 To 1215. %



MAT 5031 Deuterium Production 50-Sn-114
 Cross Section -100.0 To -63.74%



MAT 5031 Tritium Production 50-Sn-114
 Cross Section -100.0 To 954.6 %



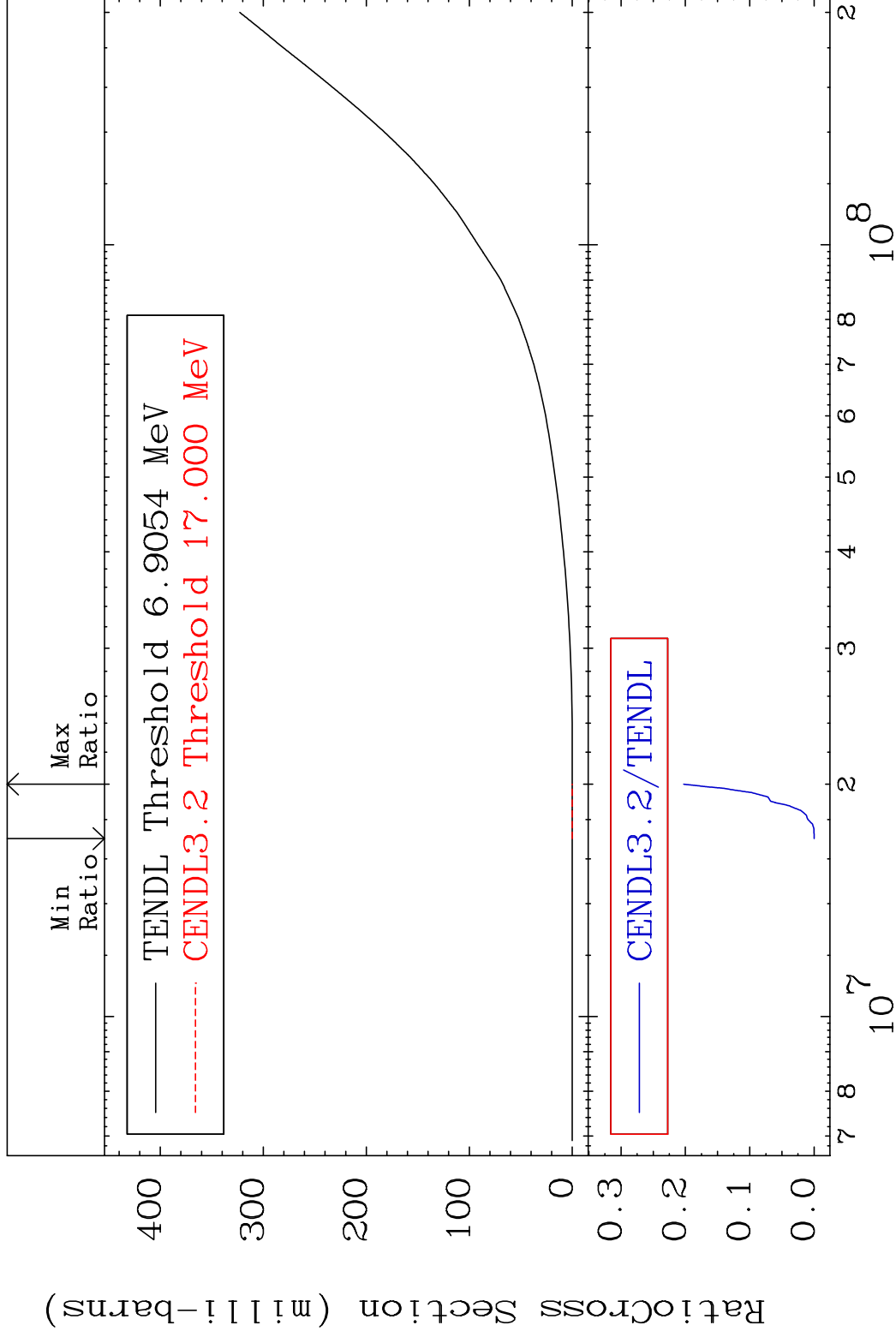
37 Incident Energy (eV) 50-Sn-114

MAT 5031

He-3 Production

50-Sn-114

Cross Section -100.0 To -79.73%



38

Incident Energy (eV)

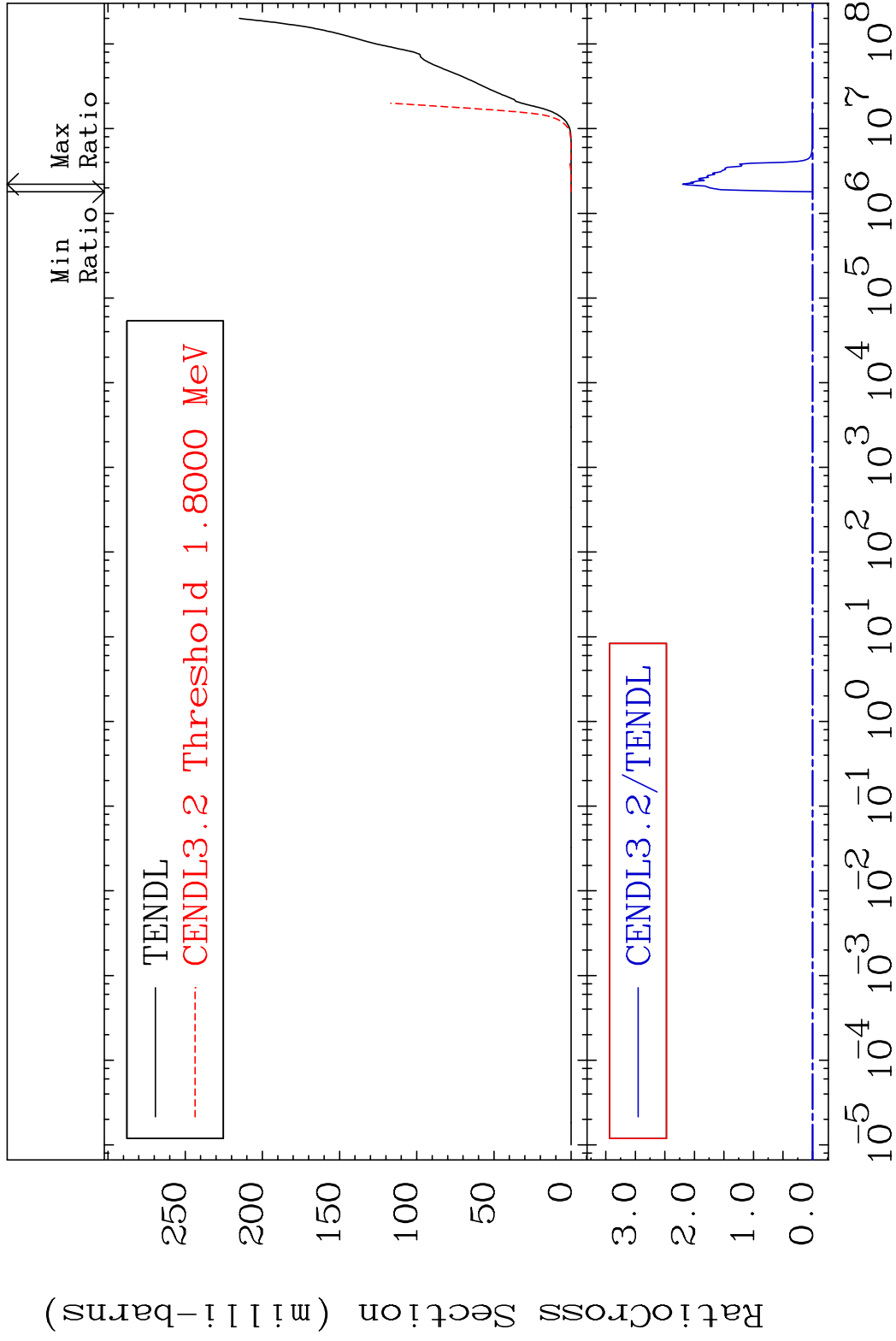
50-Sn-114

MAT 5031

He-4 Production

50-Sn-114

Cross Section -100.0 To 9999. %

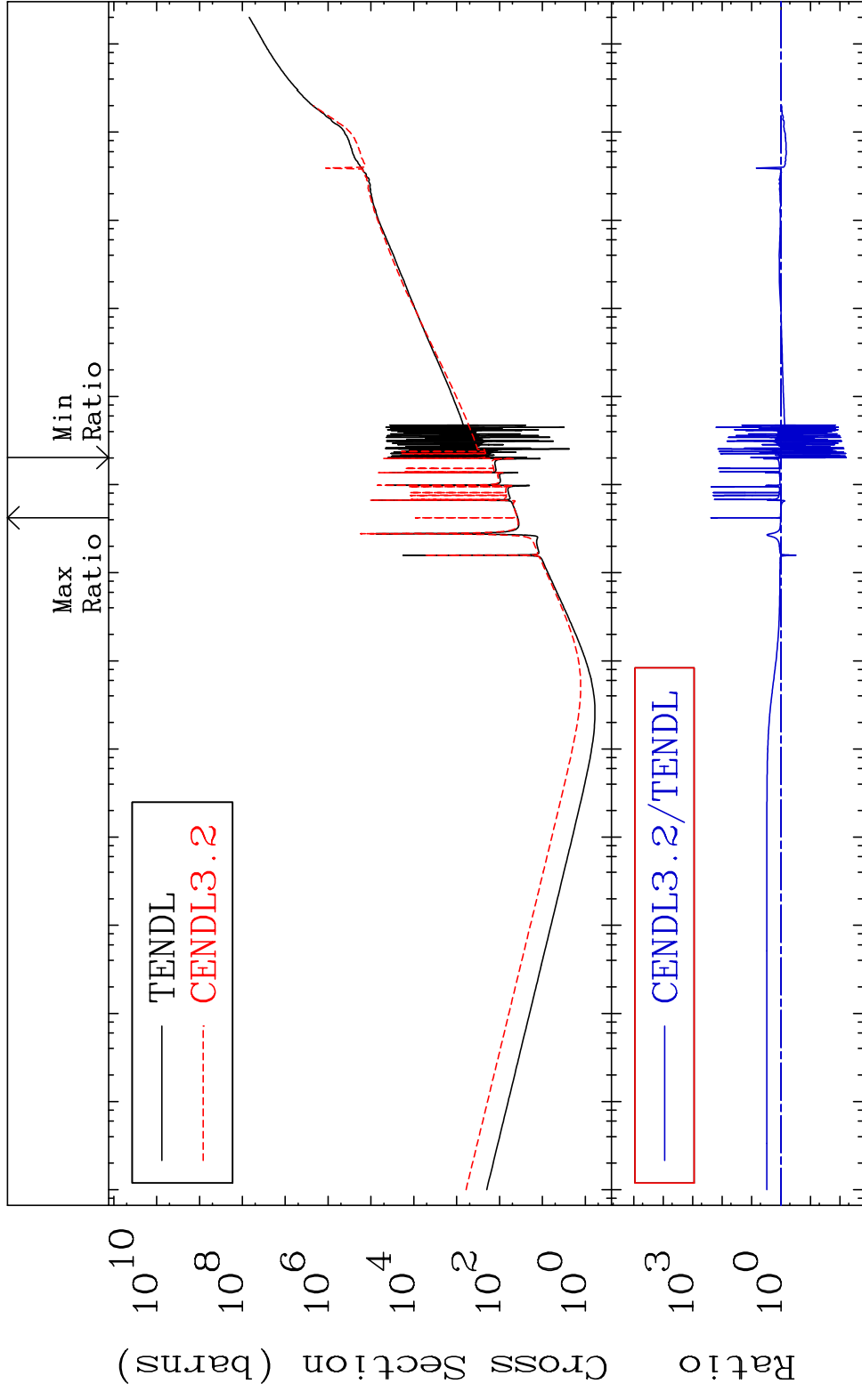


39

Incident Energy (eV)

50-Sn-114

MAT 5031 Kerma total (eV-barns) 50-Sn-114
 Cross Section -99.40 To 9999. %



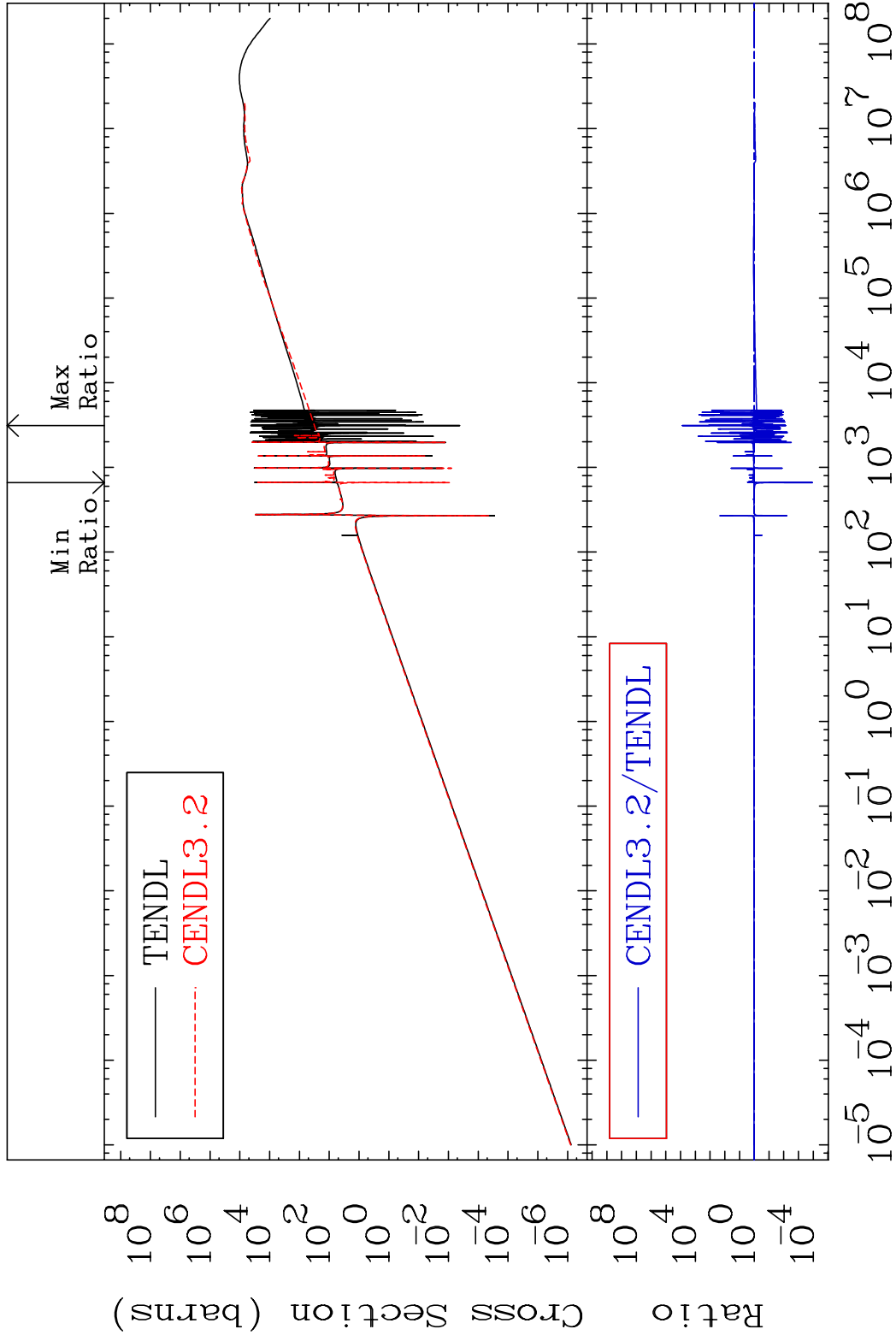
40 Incident Energy (eV) 50-Sn-114

MAT 5031

Kerma elastic

50-Sn-114

Cross Section -99.99 To 9999. %

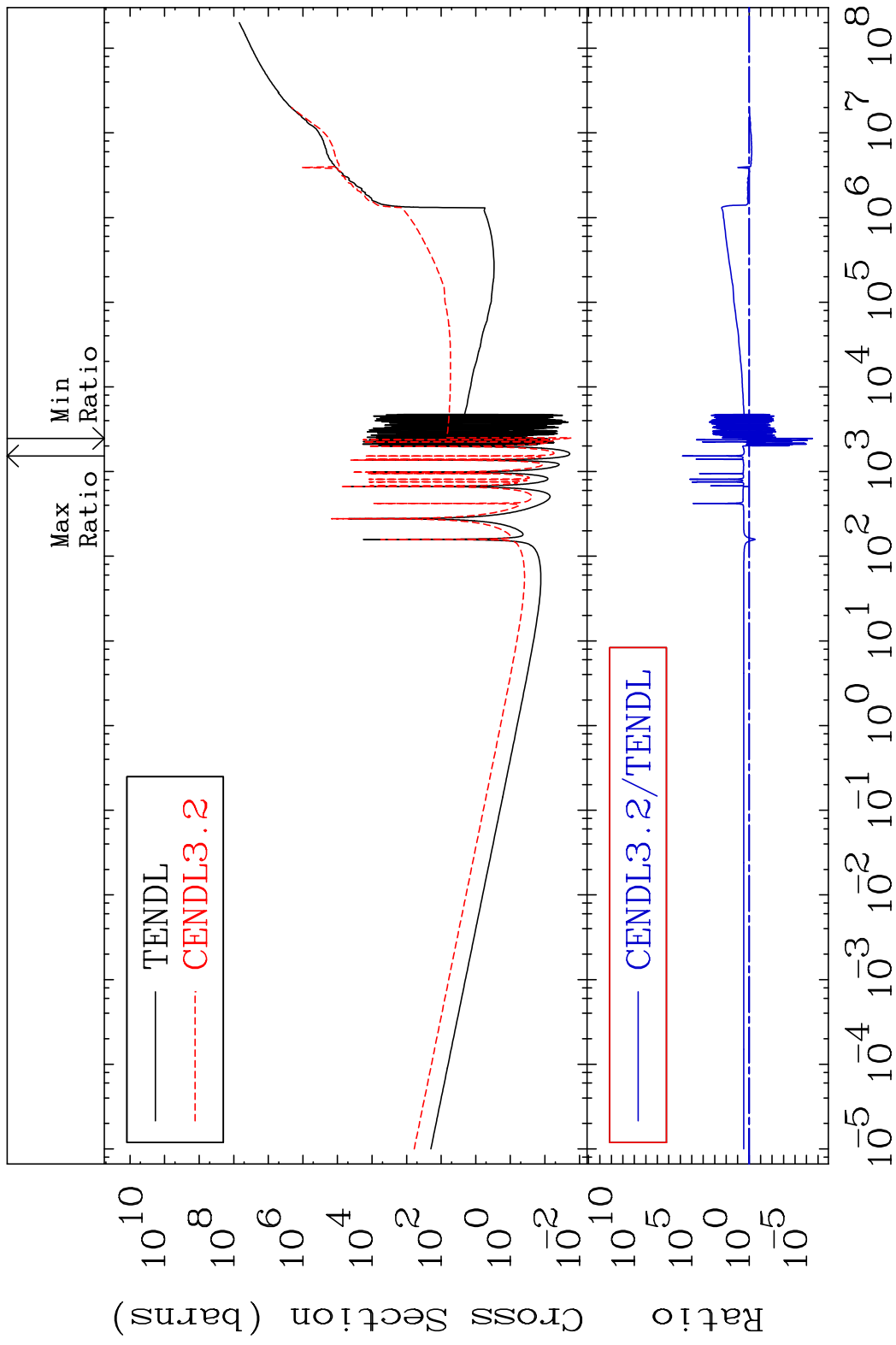


41

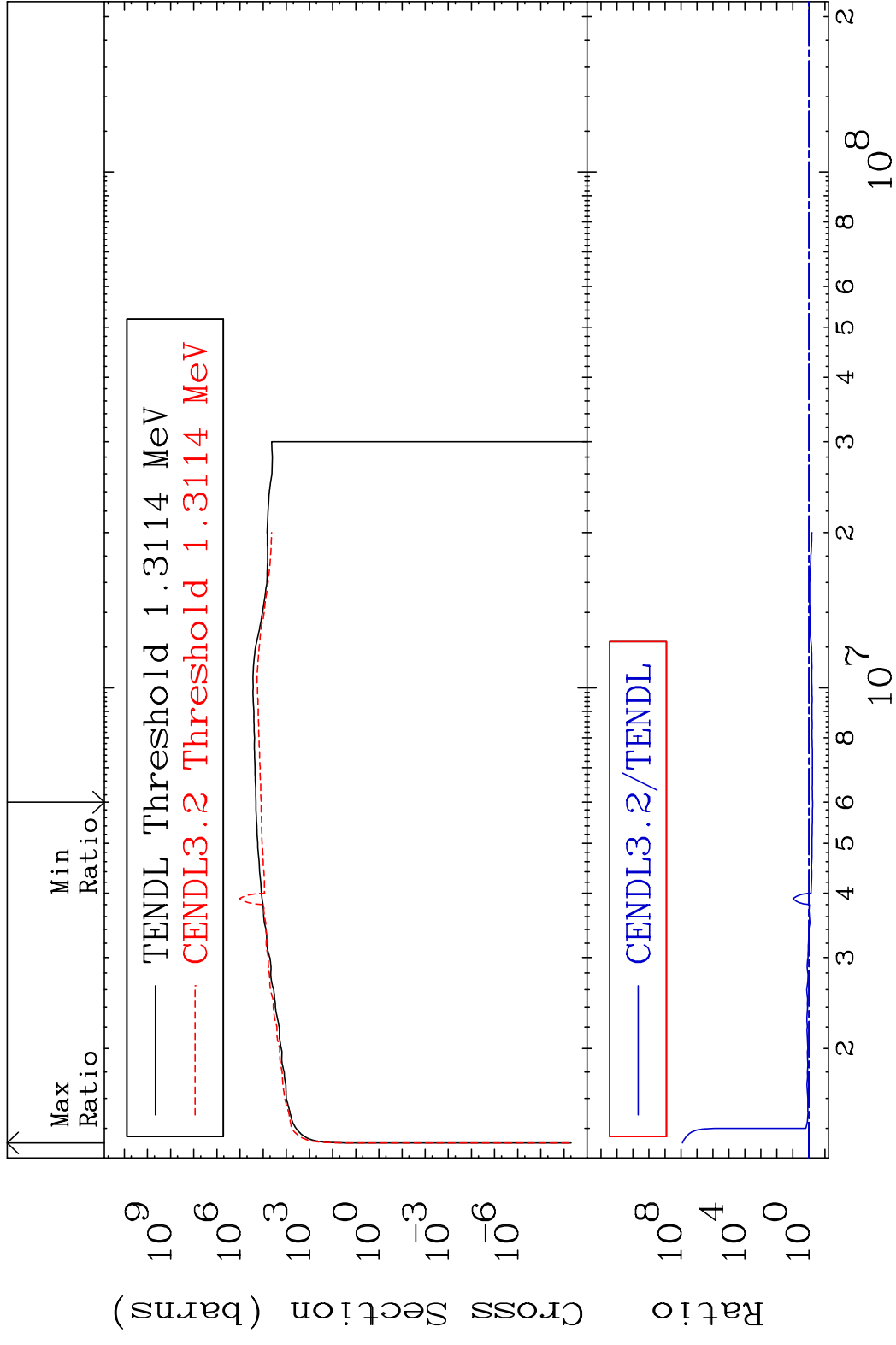
Incident Energy (eV)

50-Sn-114

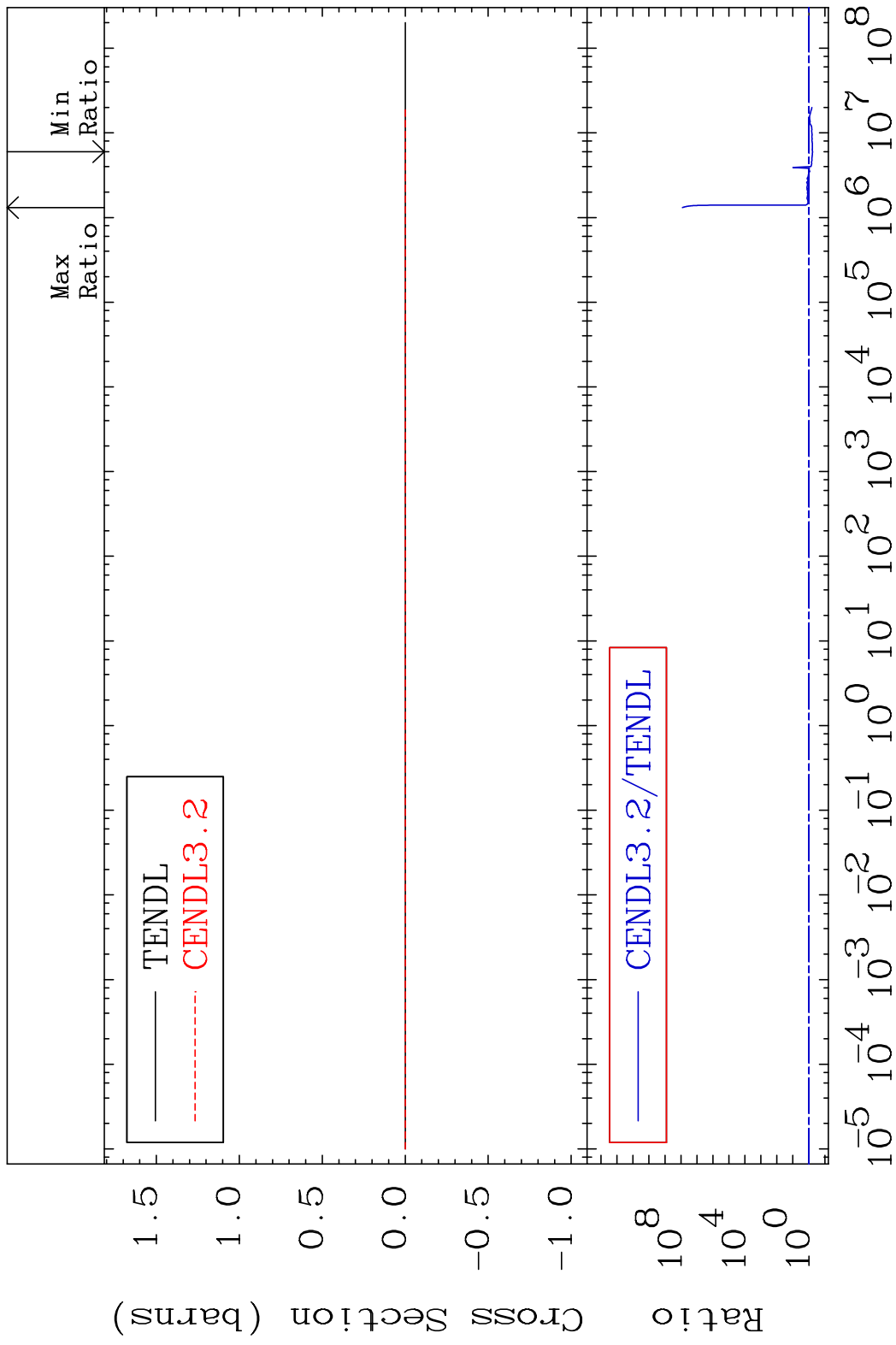
MAT 5031 Kerma non-elastic (all but mt2) 50-Sn-114
 Cross Section -100.0 To 9999. %



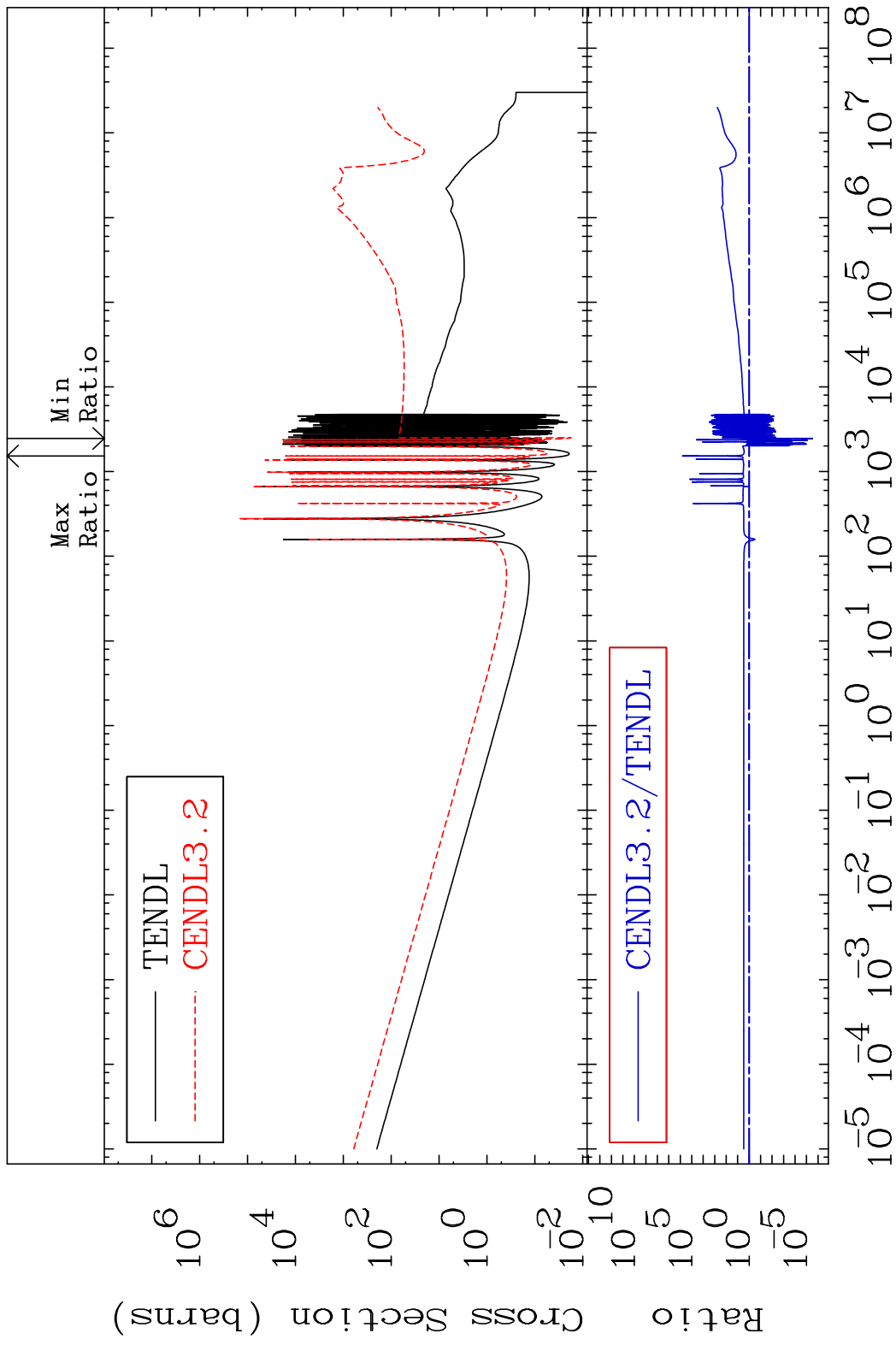
MAT 5031 Kerma inelastic (mt51-91) 50-Sn-114
 Cross Section -41.27 To 9999. %



MAT 5031 Kerma fission (mt18 or mt19-20-21-38) 50-Sn-114
 Cross Section -41.27 To 9999. %

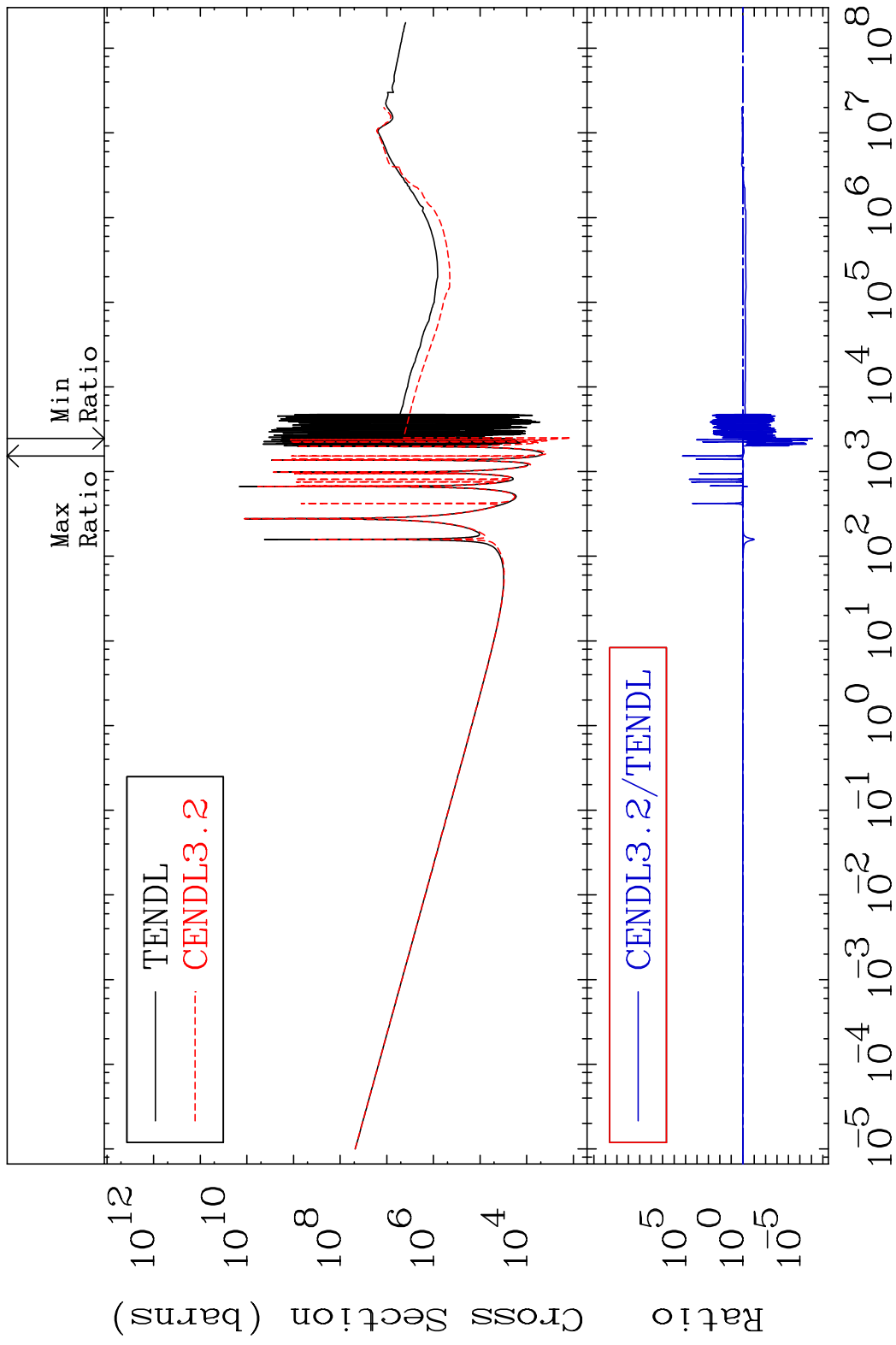


MAT 5031 Kerma capture (mt102) 50-Sn-114
 Cross Section -100.0 To 9999. %



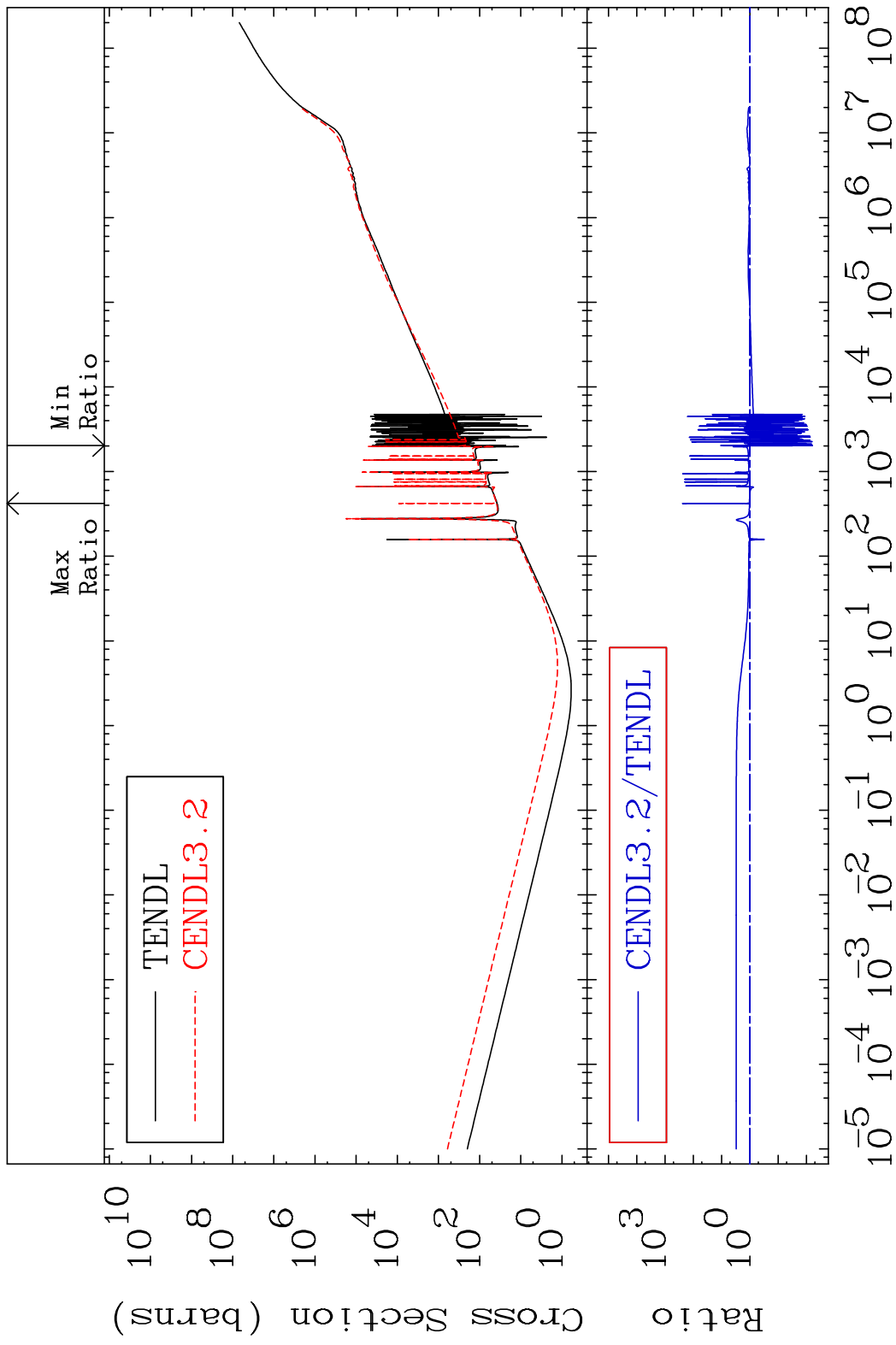
45 Incident Energy (eV) 50-Sn-114

MAT 5031 Total photon (eV-barns) 50-Sn-114
 Cross Section -100.0 To 9999. %



46 Incident Energy (eV) 50-Sn-114

MAT 5031 Total kinematic kerma (high limit) 50-Sn-114
 Cross Section -99.40 To 9999. %

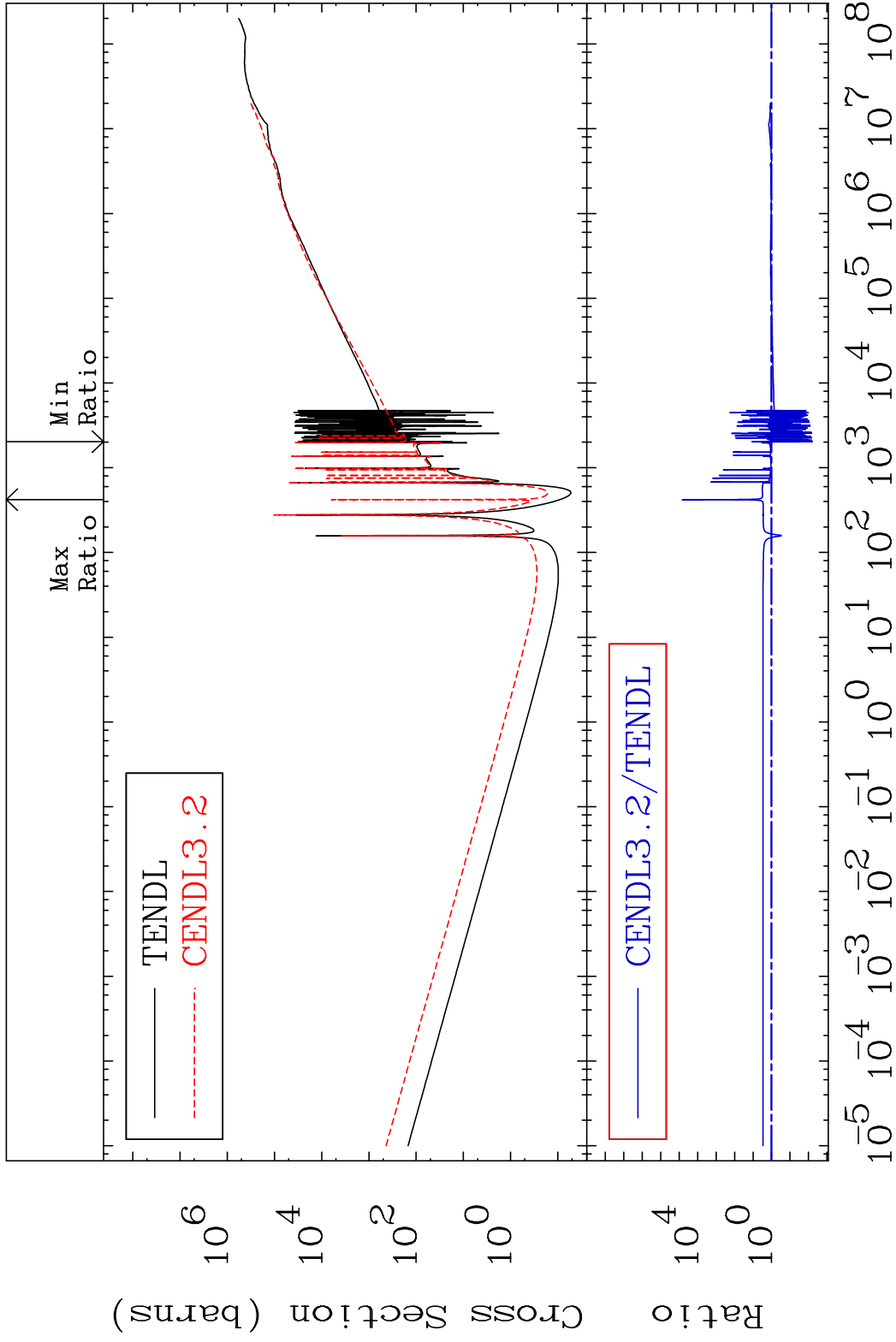


MAT 5031

Dpa total (eV-barns)

50-Sn-114

Cross Section -99.39 To 9999. %



48

Incident Energy (eV)

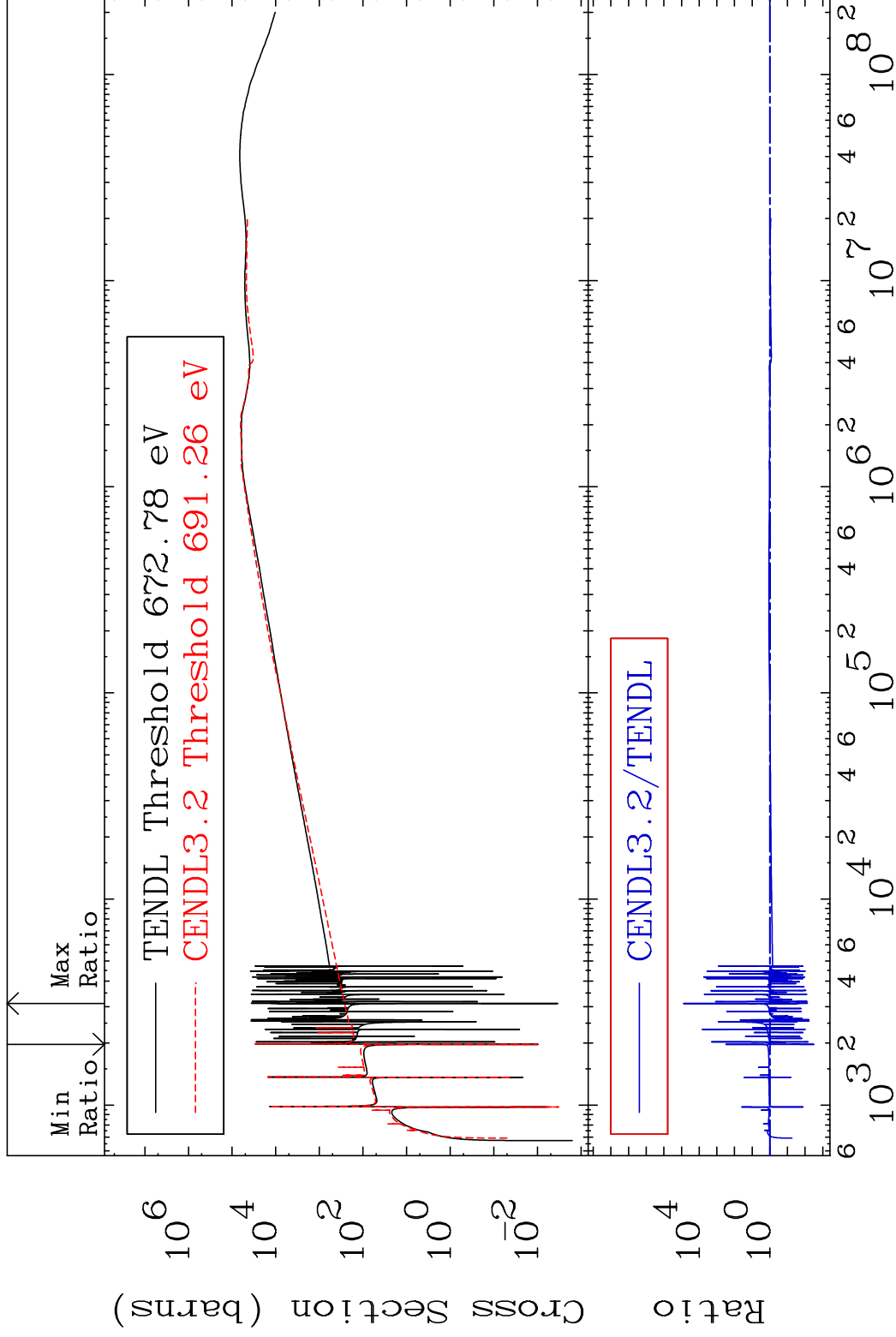
50-Sn-114

MAT 5031

Dpa elastic (mt2)

50-Sn-114

Cross Section -99.69 To 9999. %



49

Incident Energy (eV)

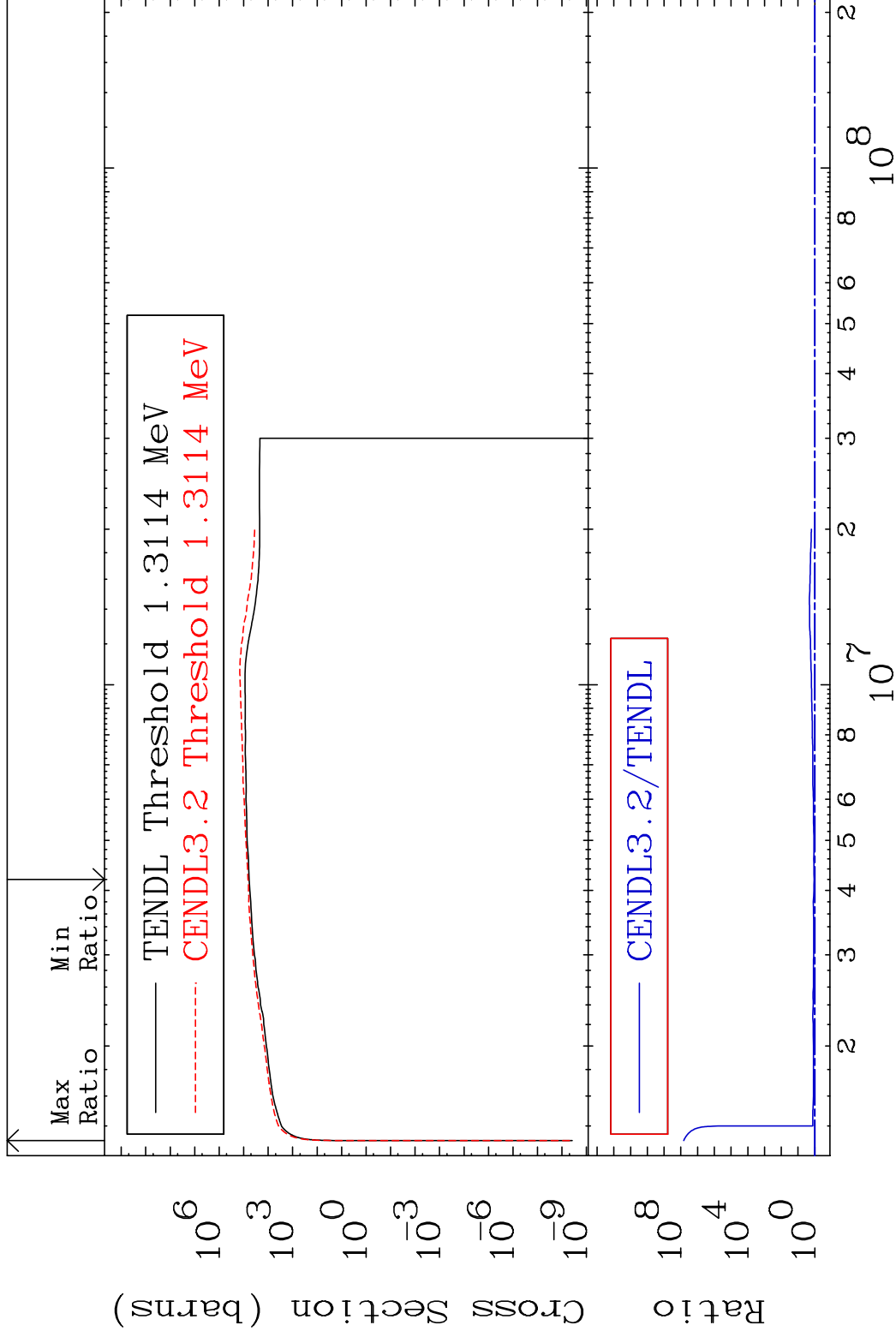
50-Sn-114

MAT 5031

Dpa inelastic (mt51-91)

50-Sn-114

Cross Section 9.832 To 9999. %

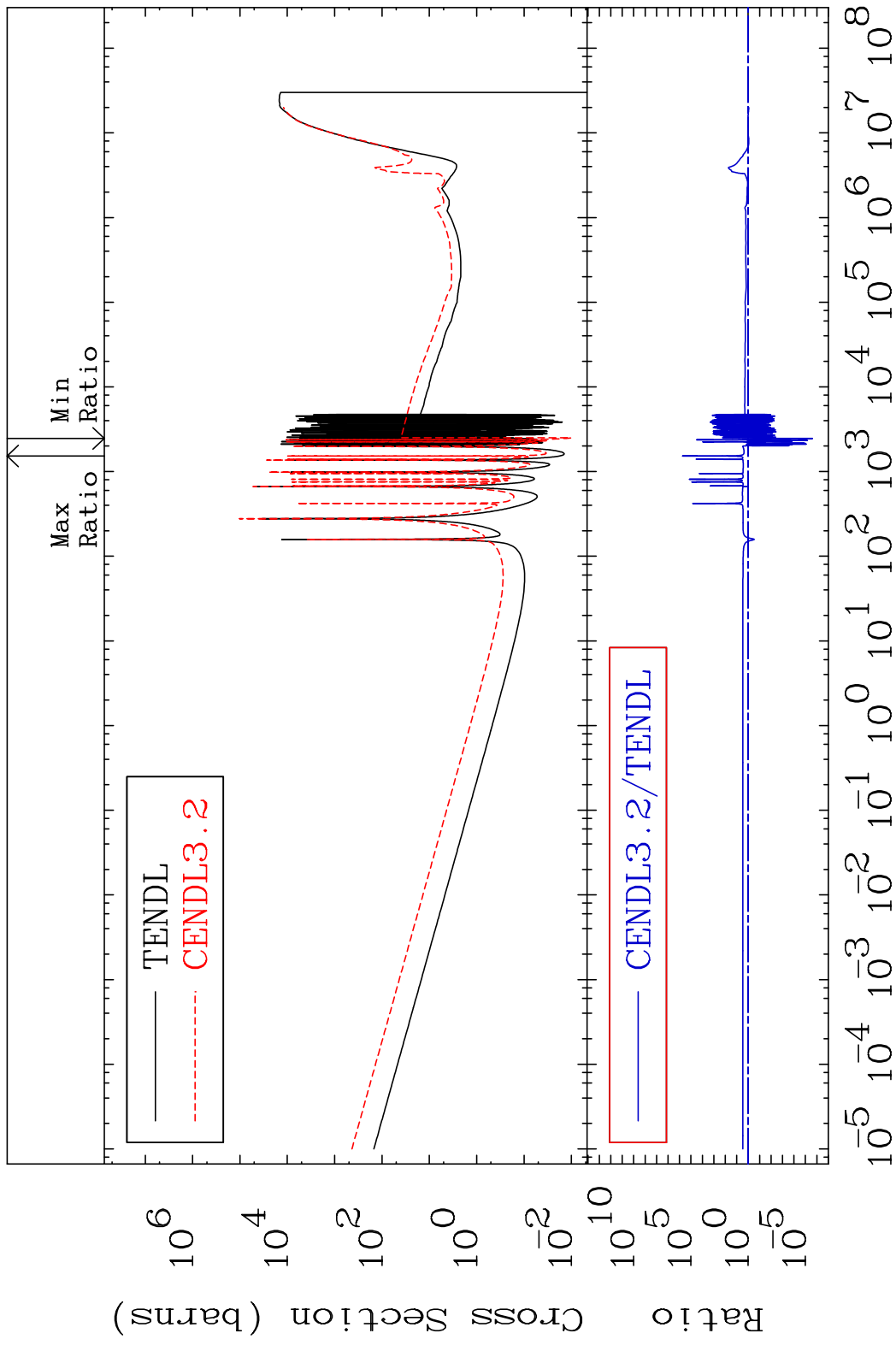


50

Incident Energy (eV)

50-Sn-114

MAT 5031 Dpa disappearance (mt102 -120) 50-Sn-114
 Cross Section -100.0 To 9999. %

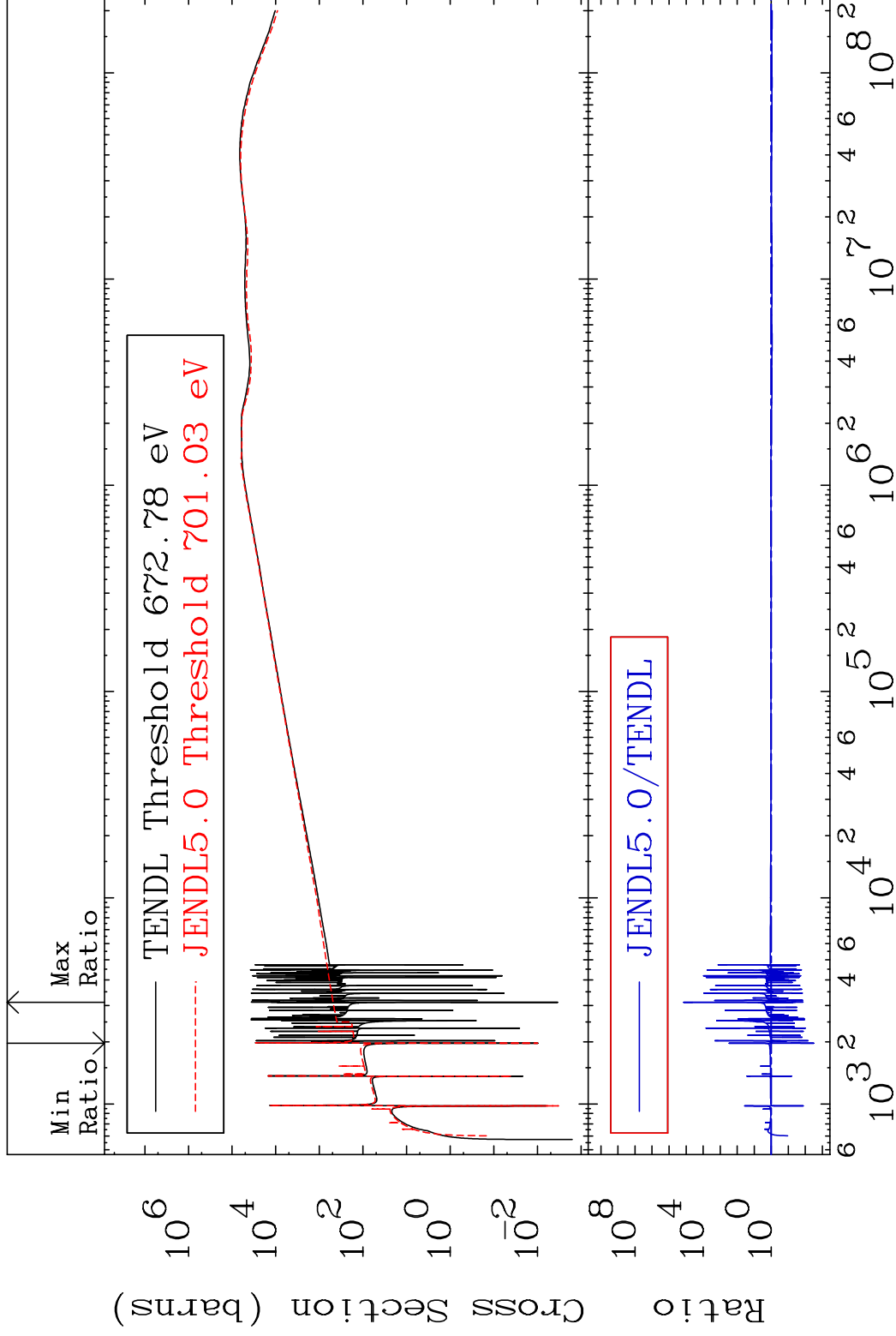


MAT 5031

Dpa elastic (mt2)

50-Sn-114

Cross Section -99.70 To 9999. %



52

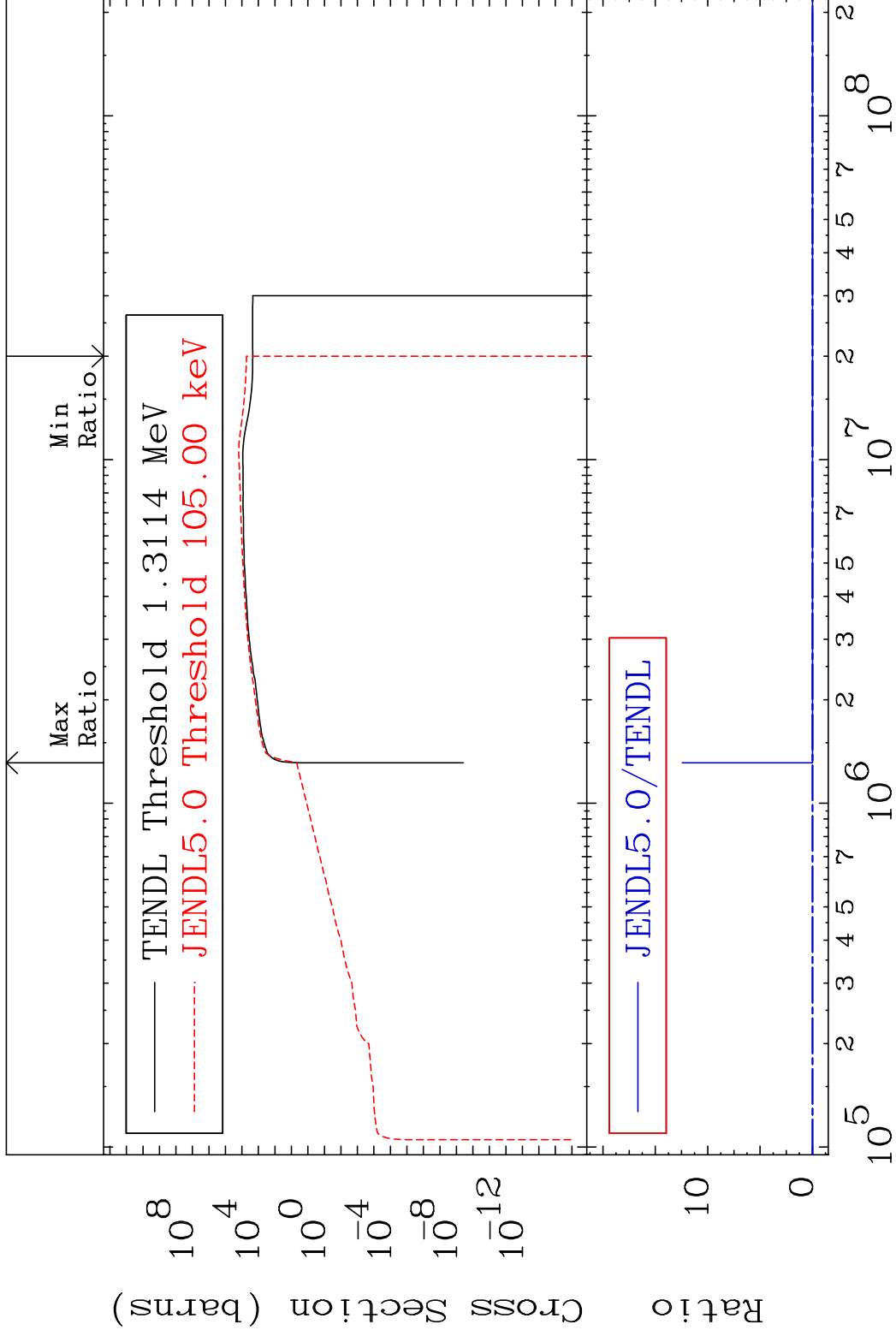
Incident Energy (eV)

50-Sn-114

MAT 5031

Dpa inelastic (mt51-91) 50-Sn-114

Cross Section -100.0 To 9999. %

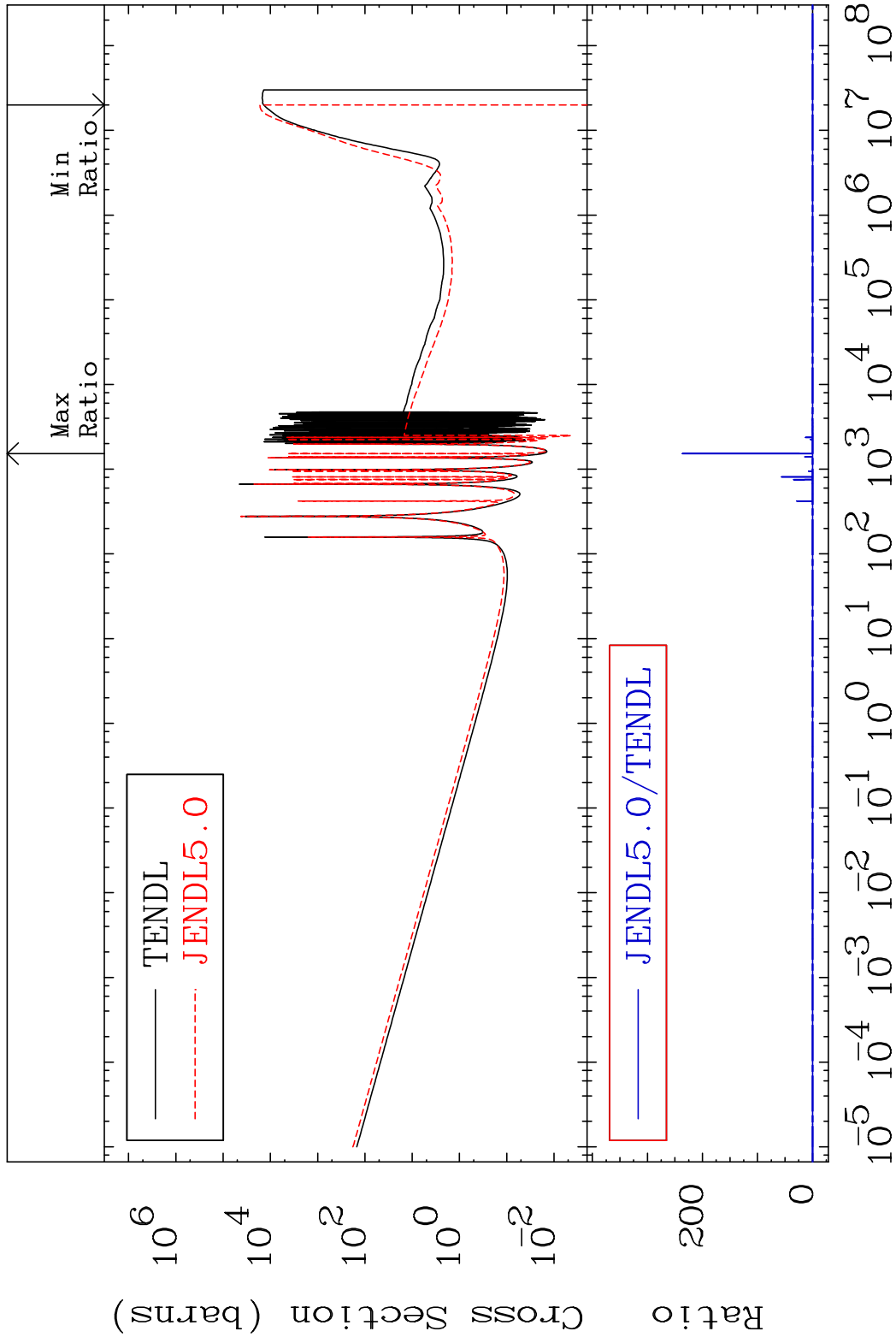


53

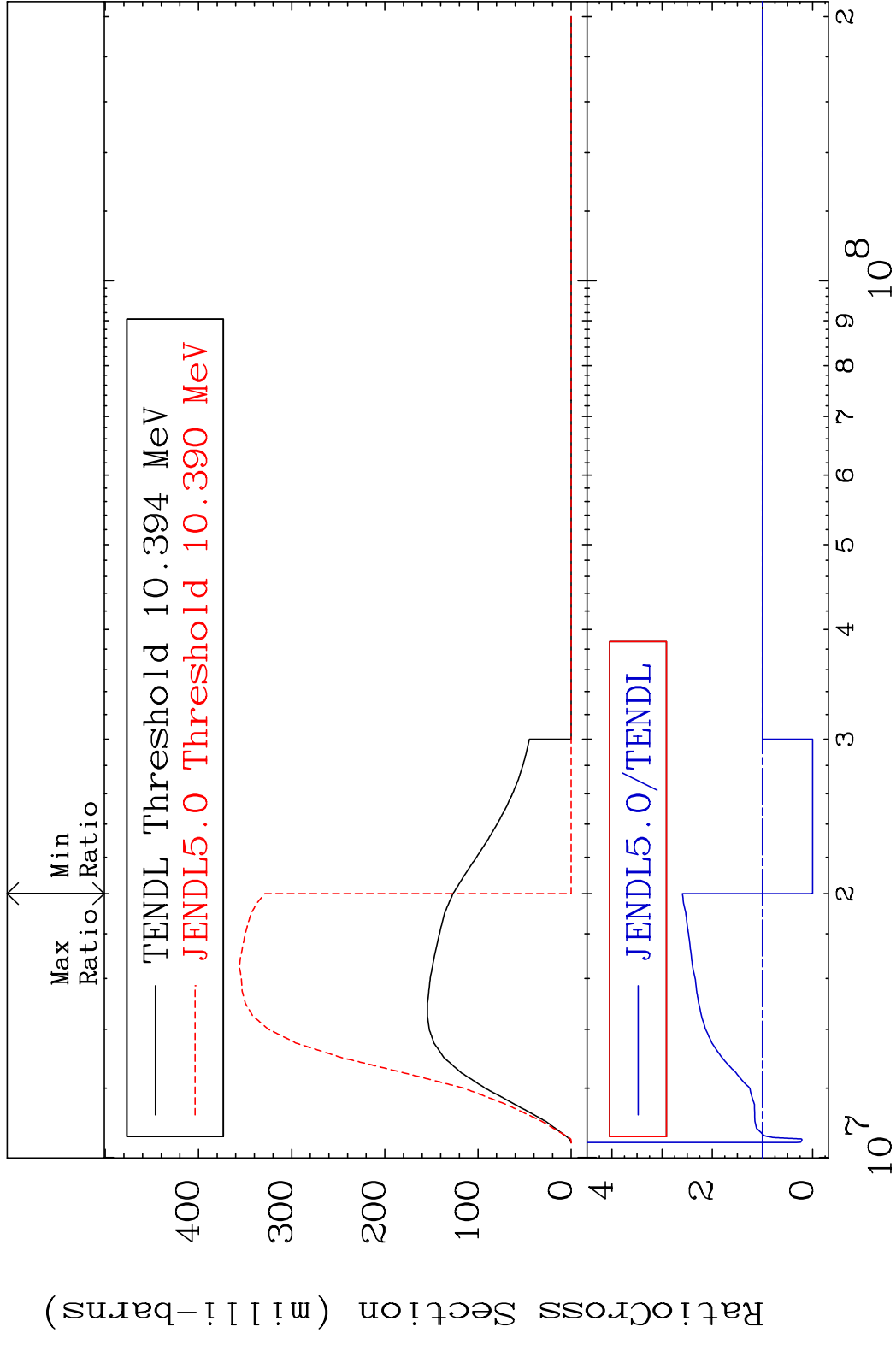
Incident Energy (eV)

50-Sn-114

MAT 5031 Dpa disappearance (mt102 -120) 50-Sn-114
 Cross Section -100.0 To 9999. %

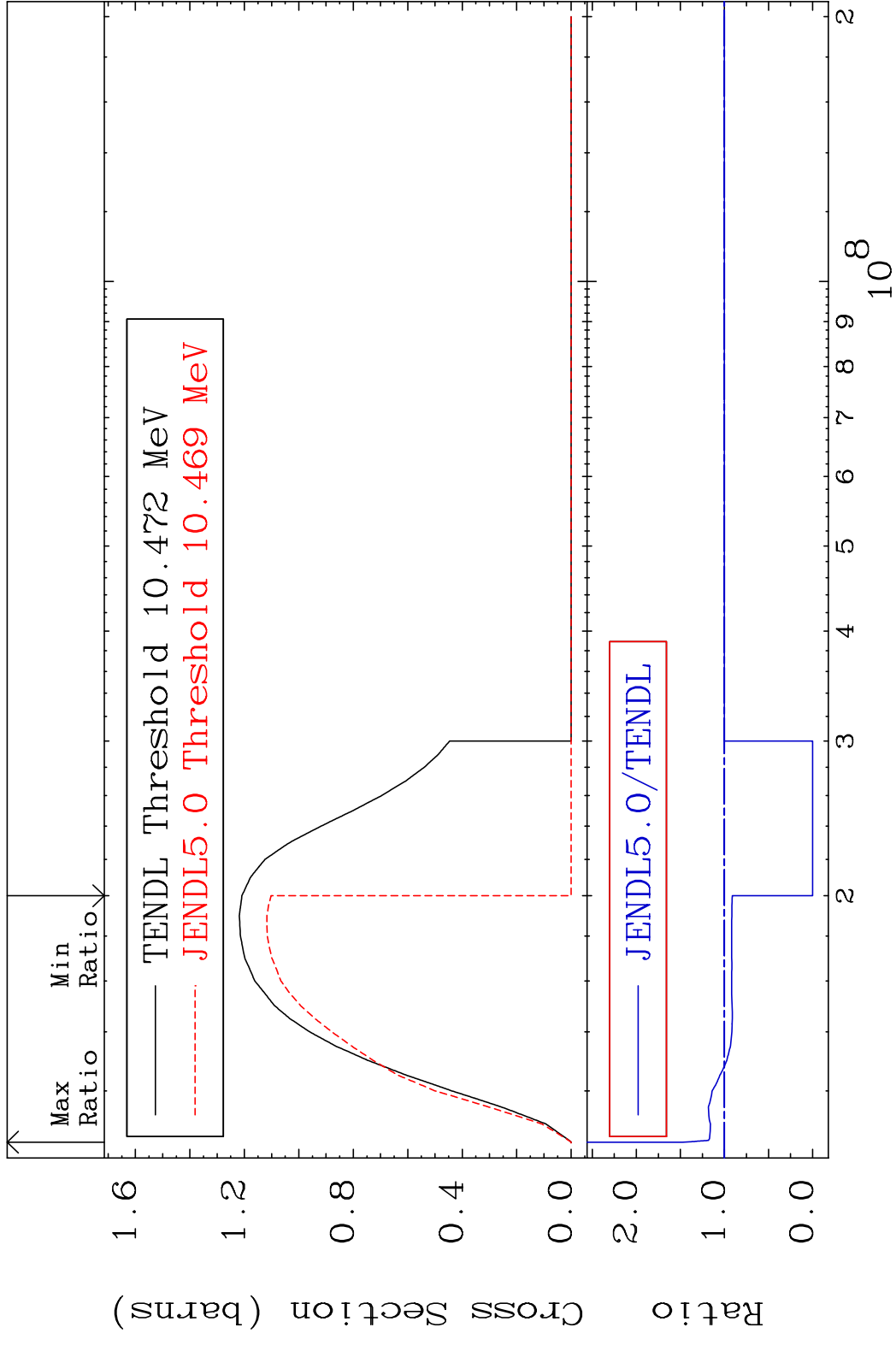


MAT 5031 (n,2n):50-Sn-113g 50-Sn-114
 Radionuclide Production Cross Section 159.5 %

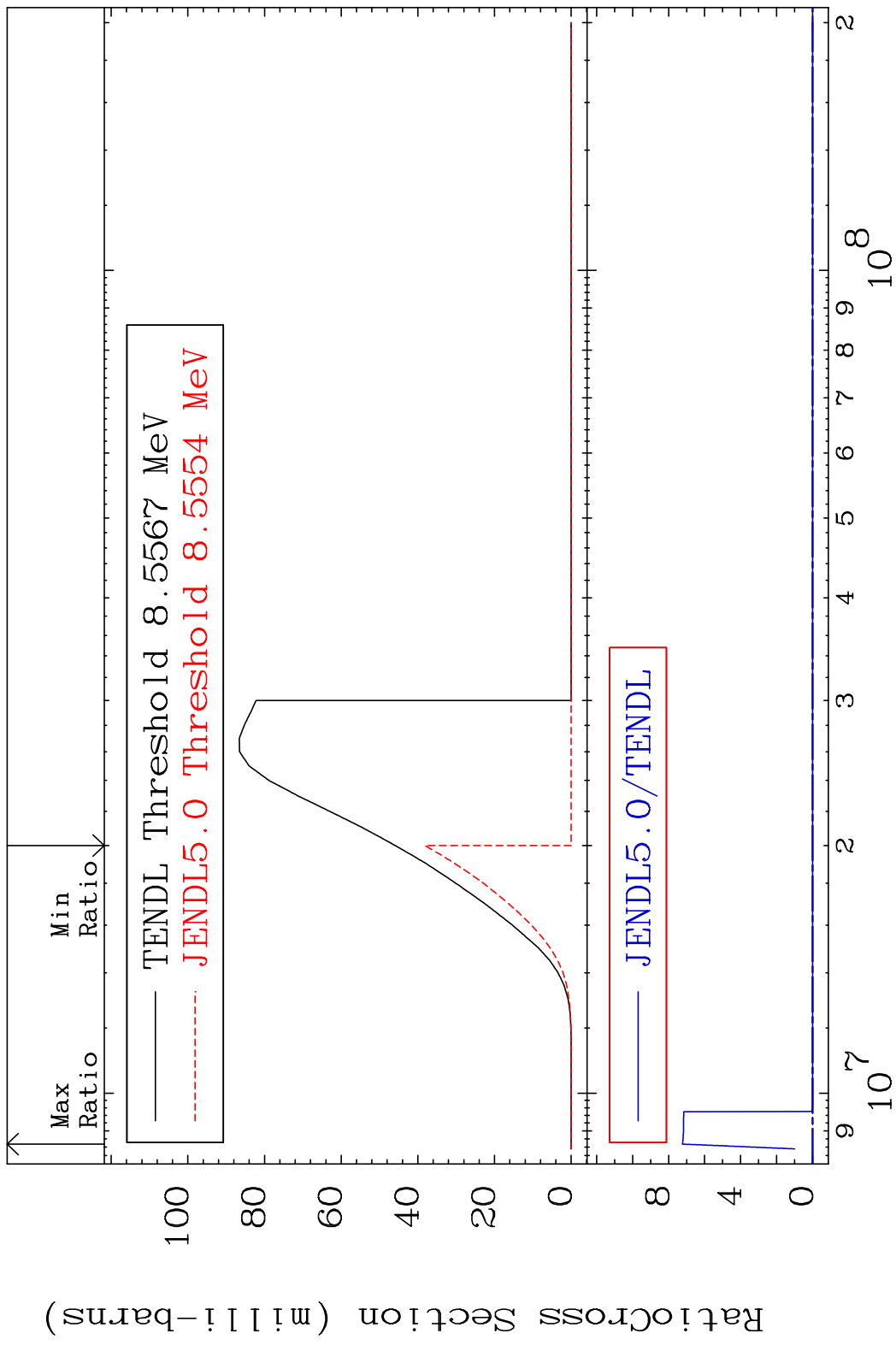


55 50-Sn-114

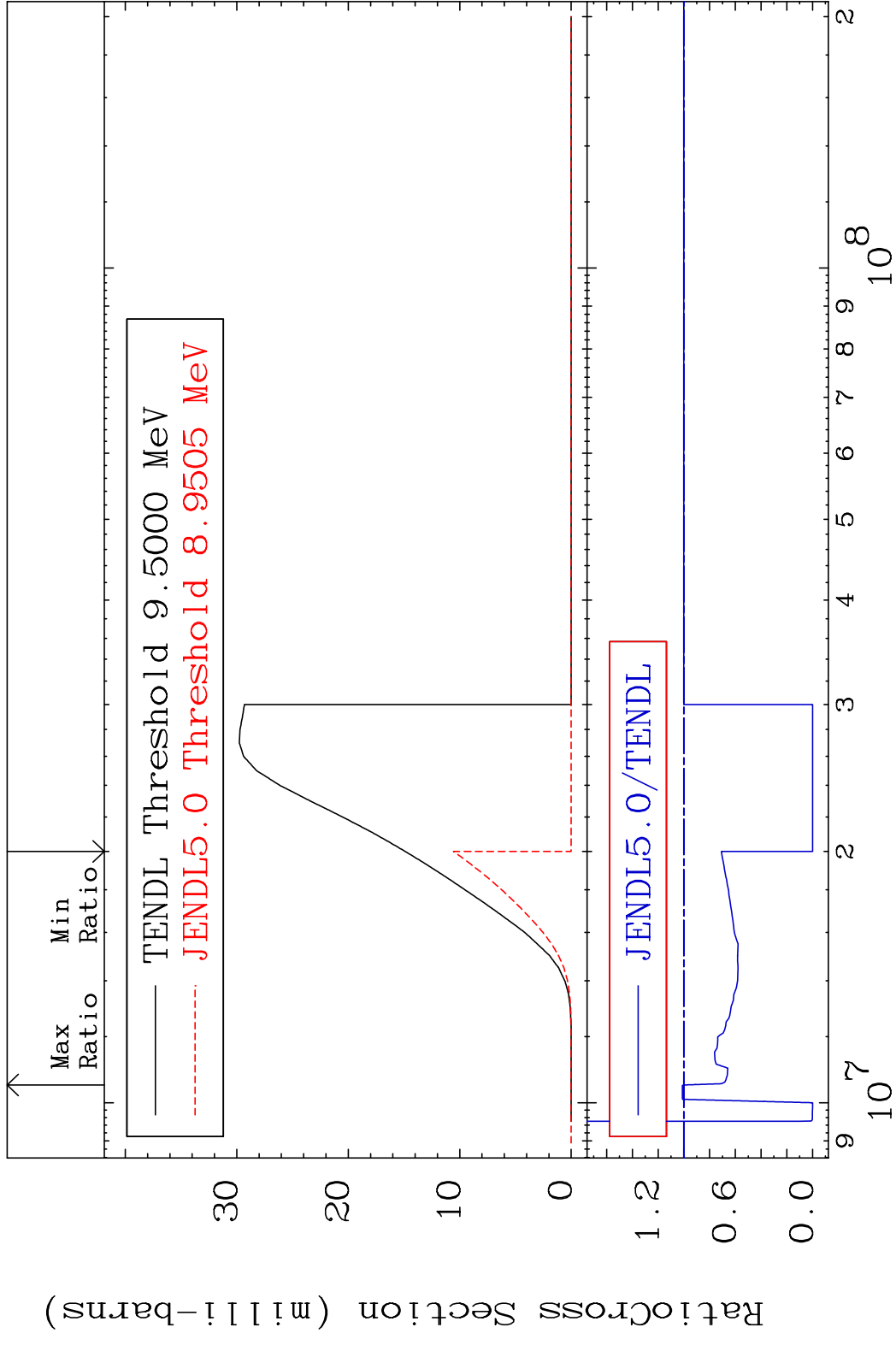
MAT 5031 (n,2n):50-Sn-113m1 50-Sn-114
 Radionuclide Production Cross Section 180.01 dth 47.76 %

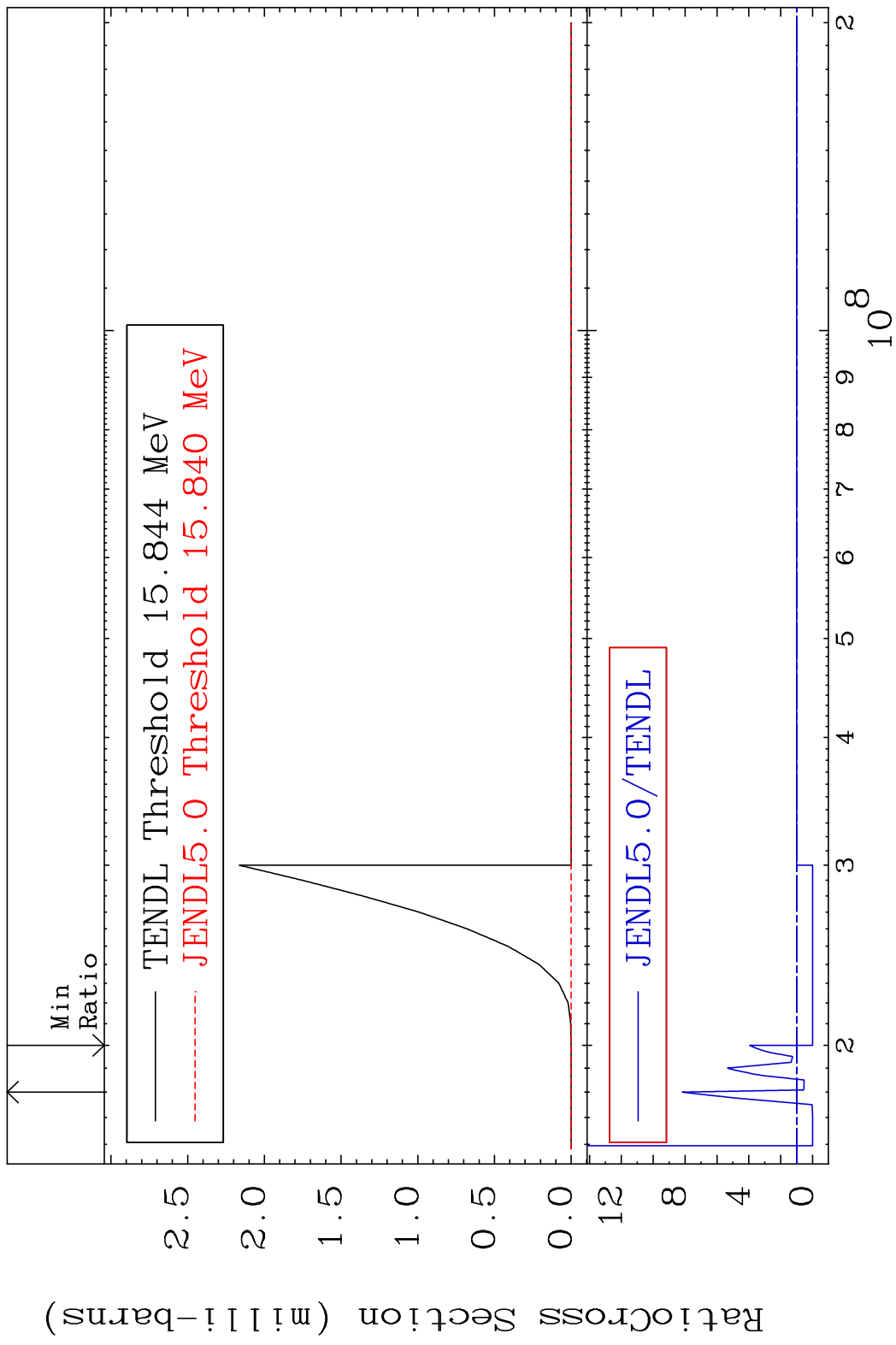


MAT 5031 (n, n') p:49-In-113g 50-Sn-114
 Radionuclide Production Cross Section Ratio 9999. %

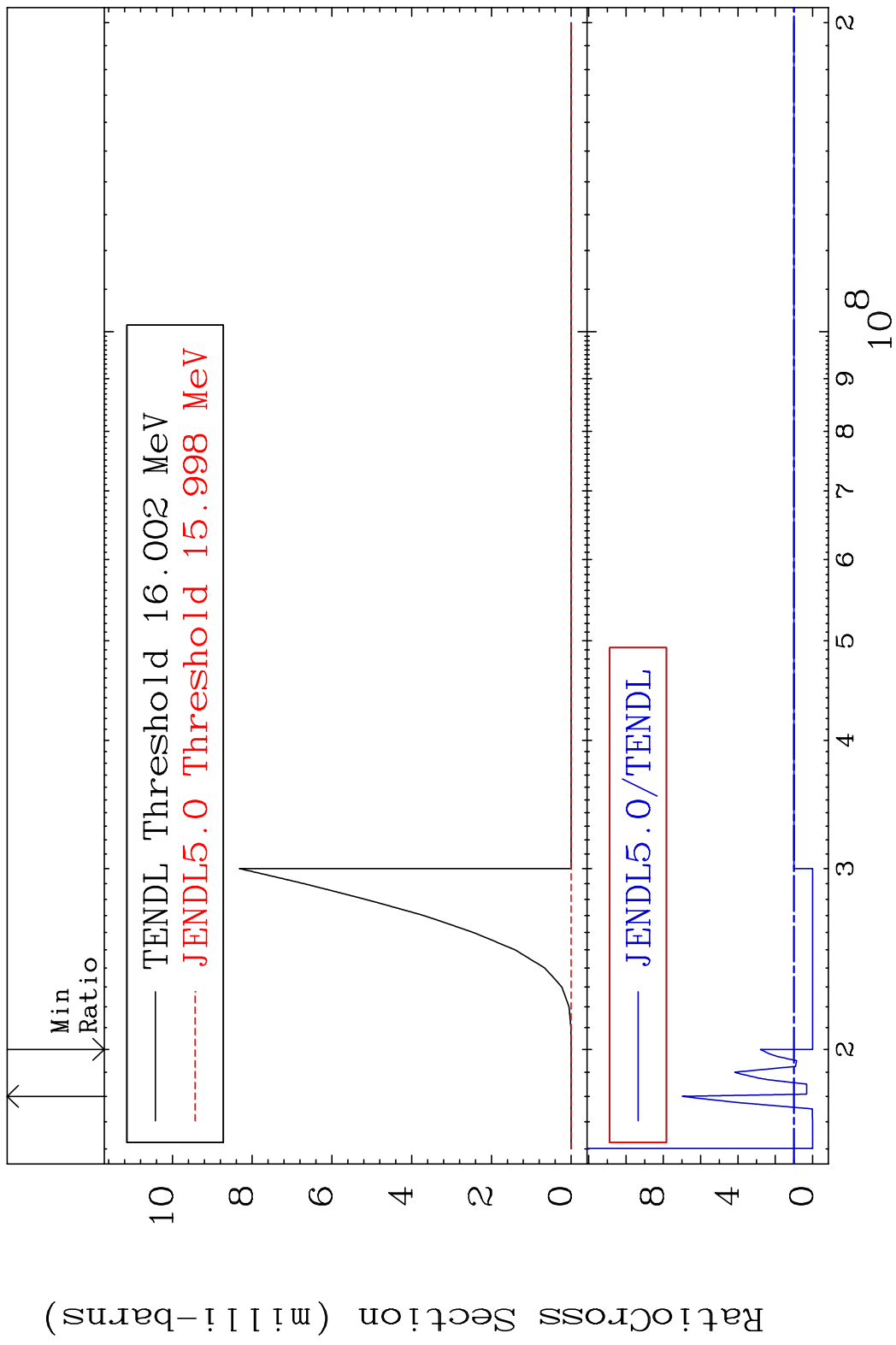


MAT 5031 (n, n') p:49-In-113m1 50-Sn-114
 Radionuclide Production Cross Section 1.174 %

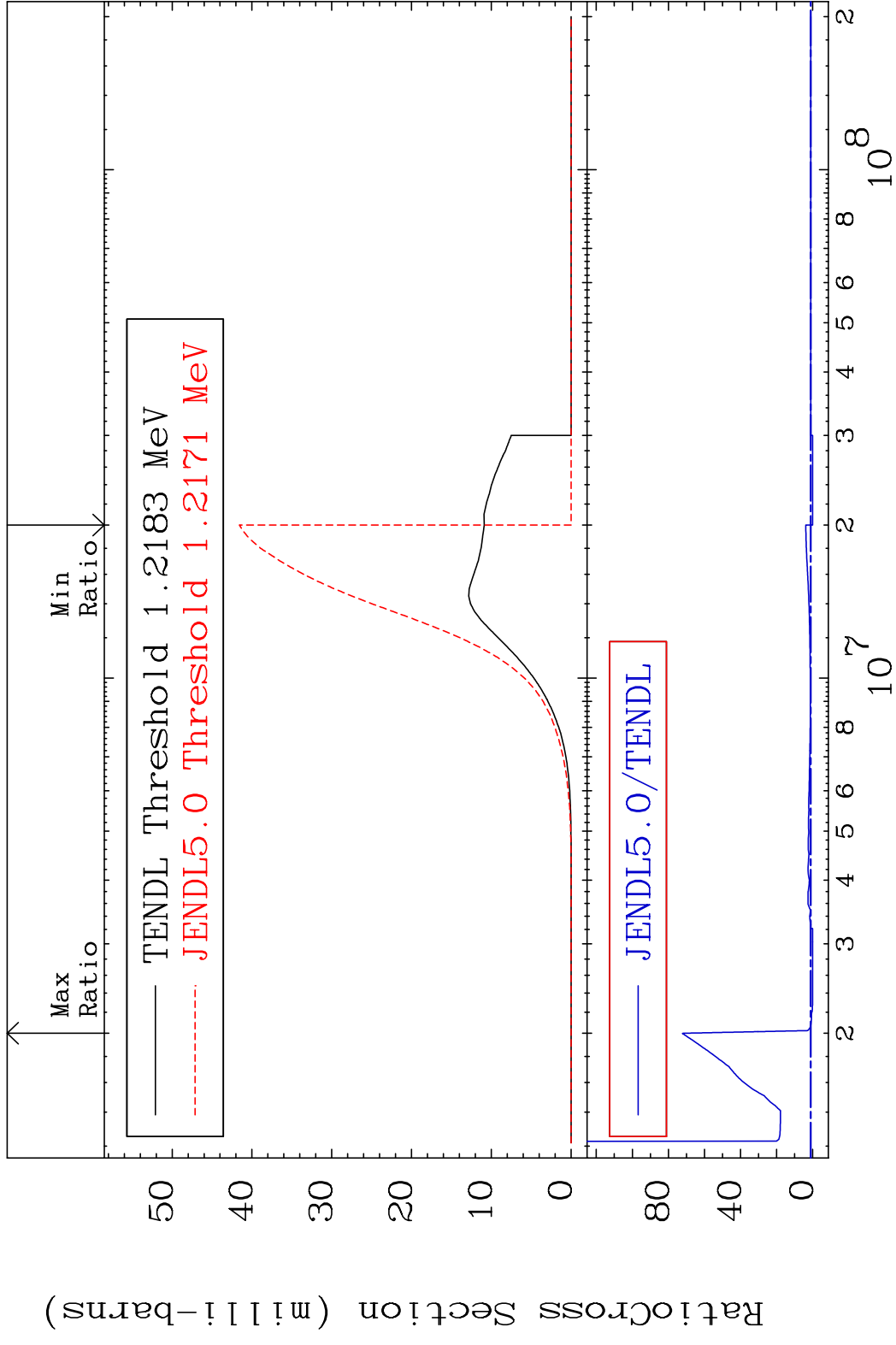




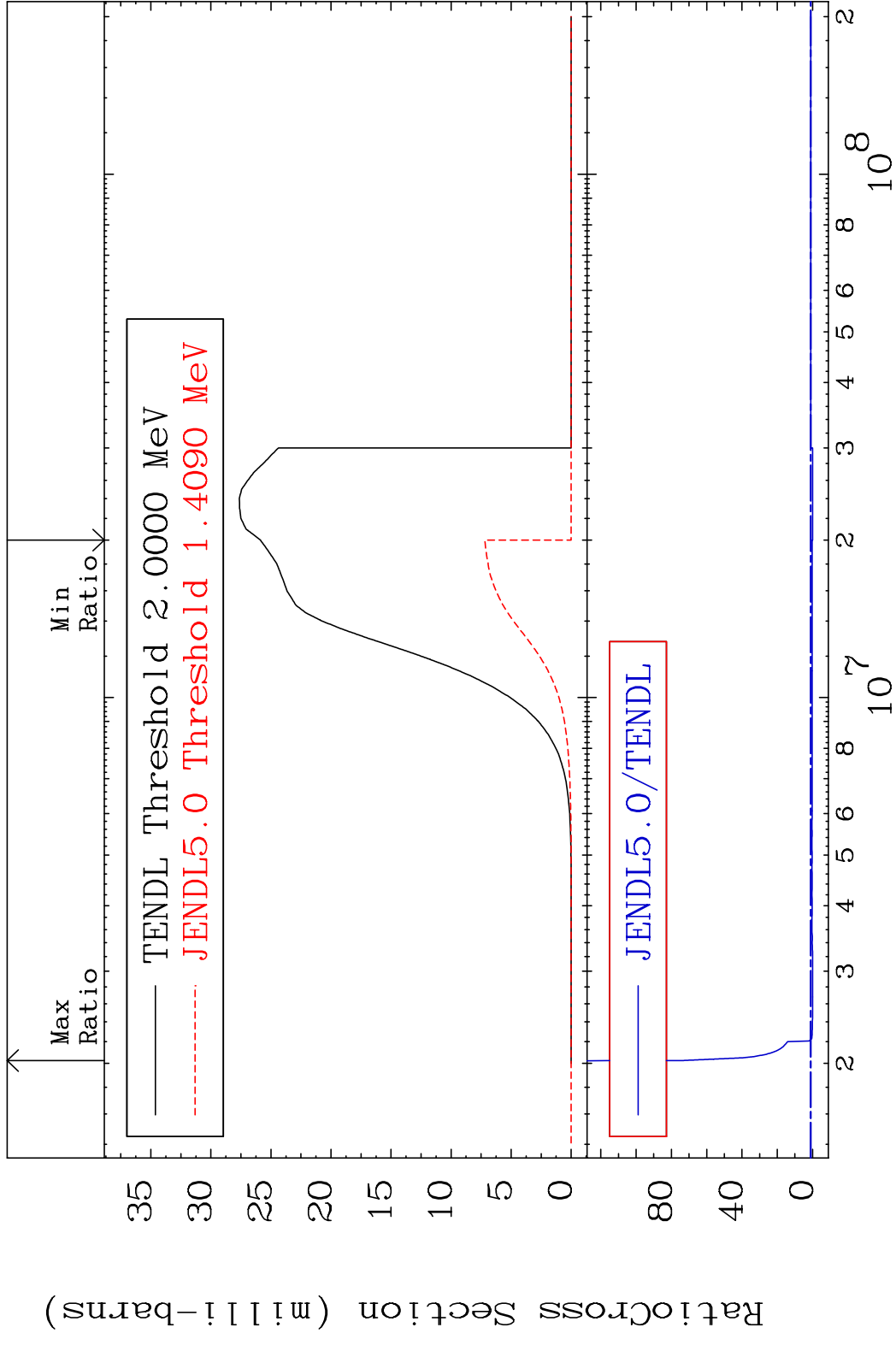
MAT 5031 (n, n') d:49-In-112m1 50-Sn-114
 Radionuclide Production Cross Section to 597.9 %



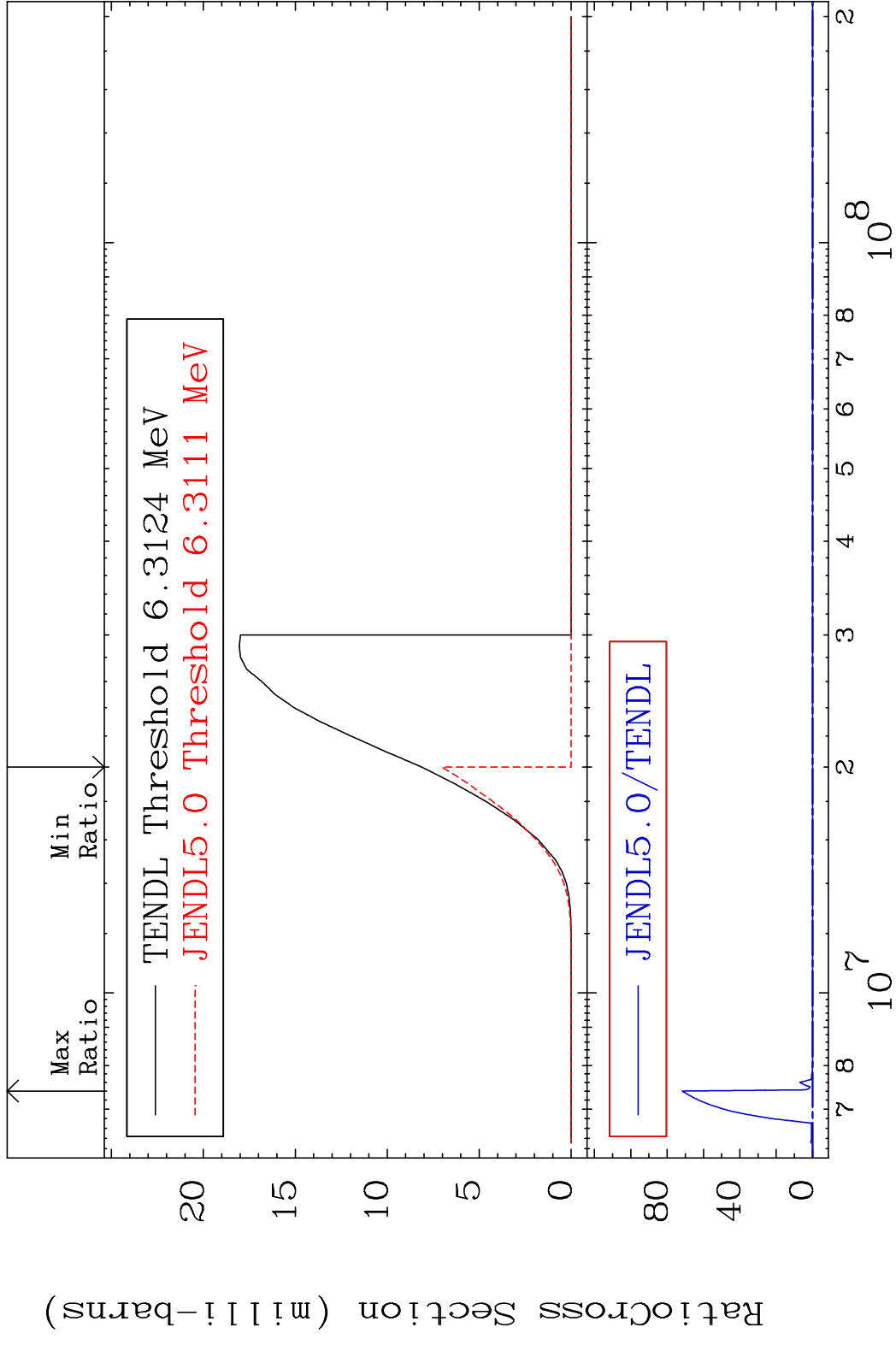
MAT 5031 (n,p):49-In-114g 50-Sn-114
 Radionuclide Production Cross Section 1800.0 dpo 7125. %

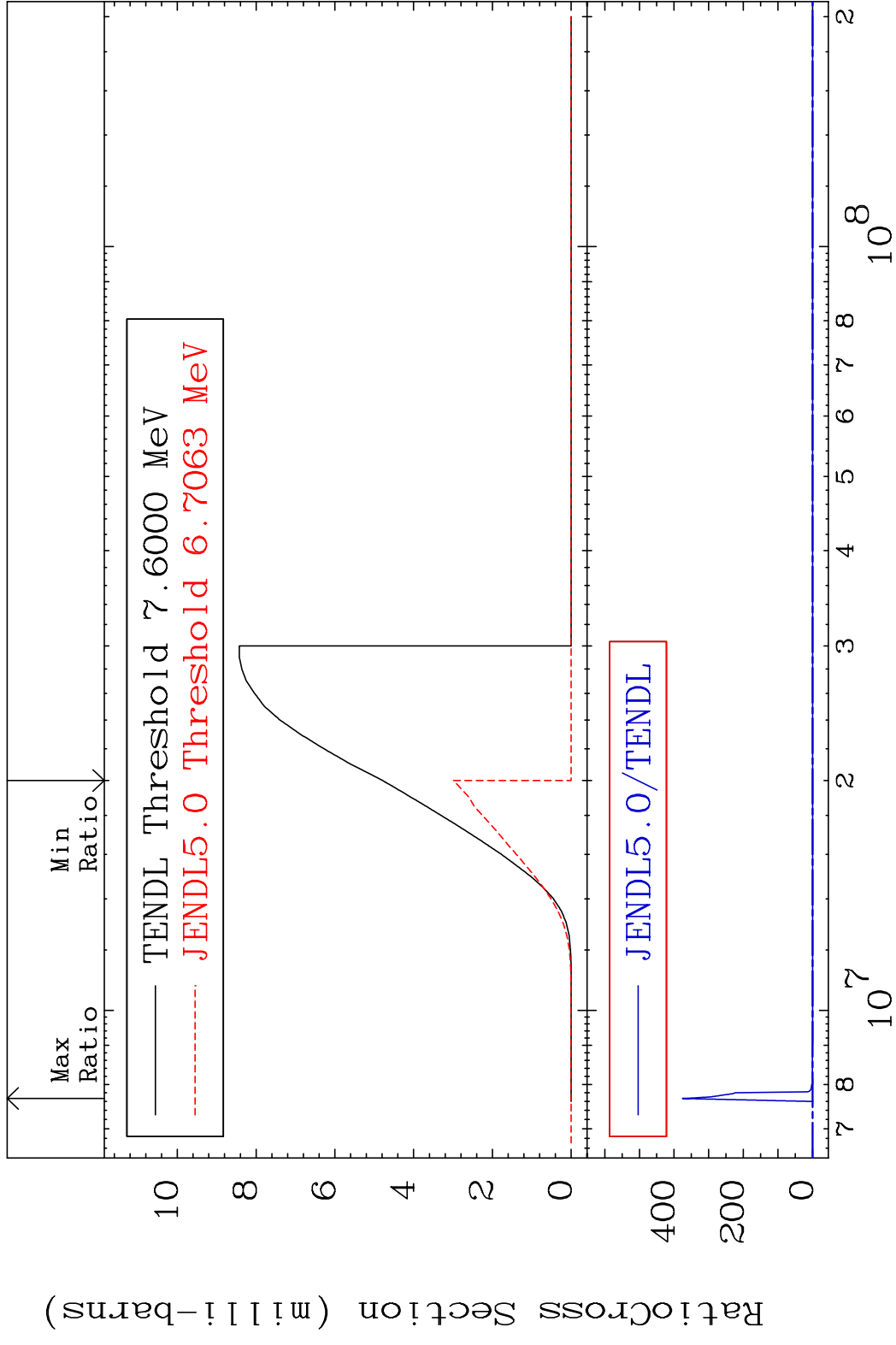


MAT 5031 (n, p): 49-In-114m1 50-Sn-114
 Radionuclide Production Cross Section 18000 dth 7279. %

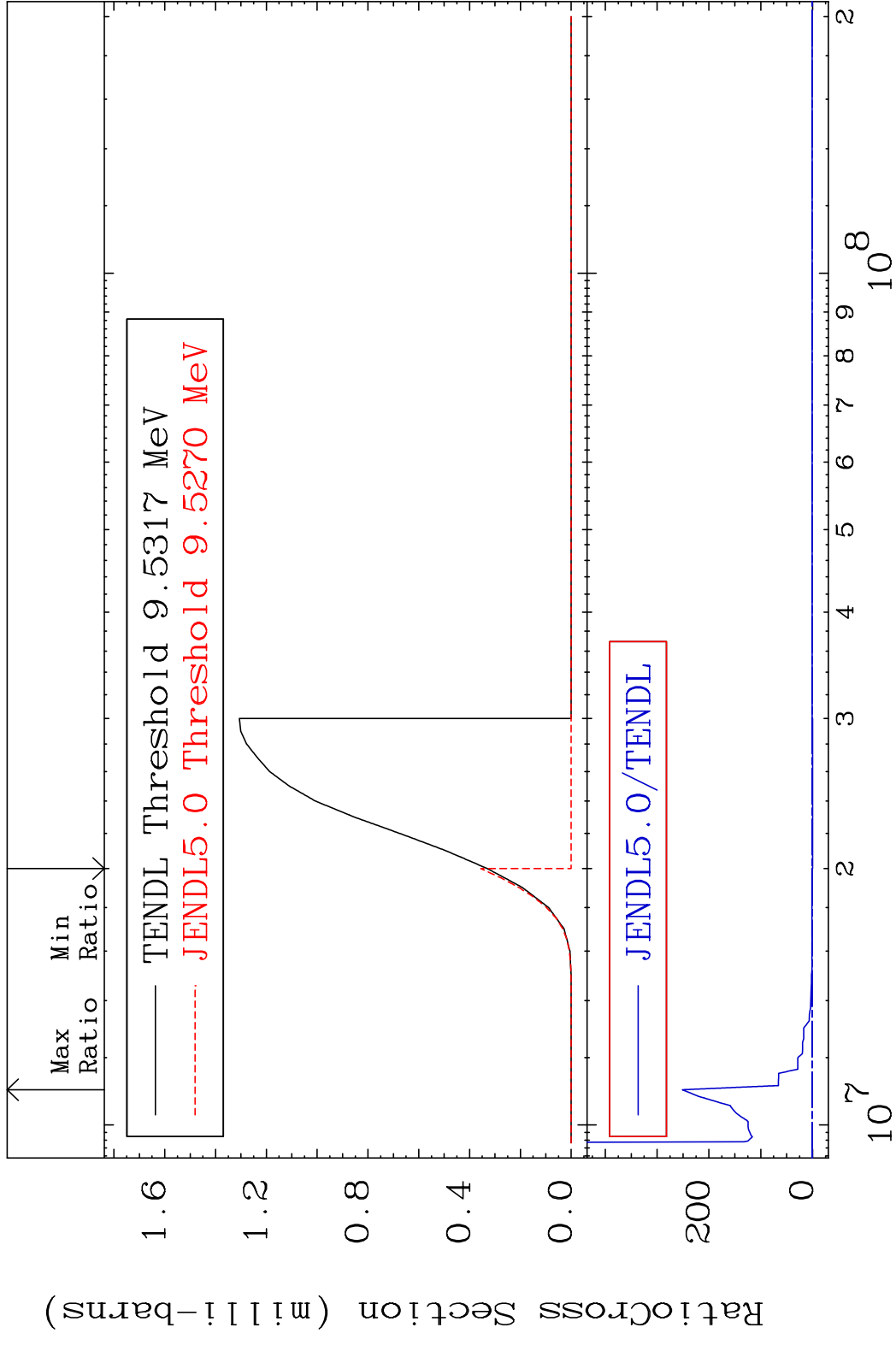


MAT 5031 (n,d):49-In-113g 50-Sn-114
 Radionuclide Production Cross Section 100.00 to 9999.00 %



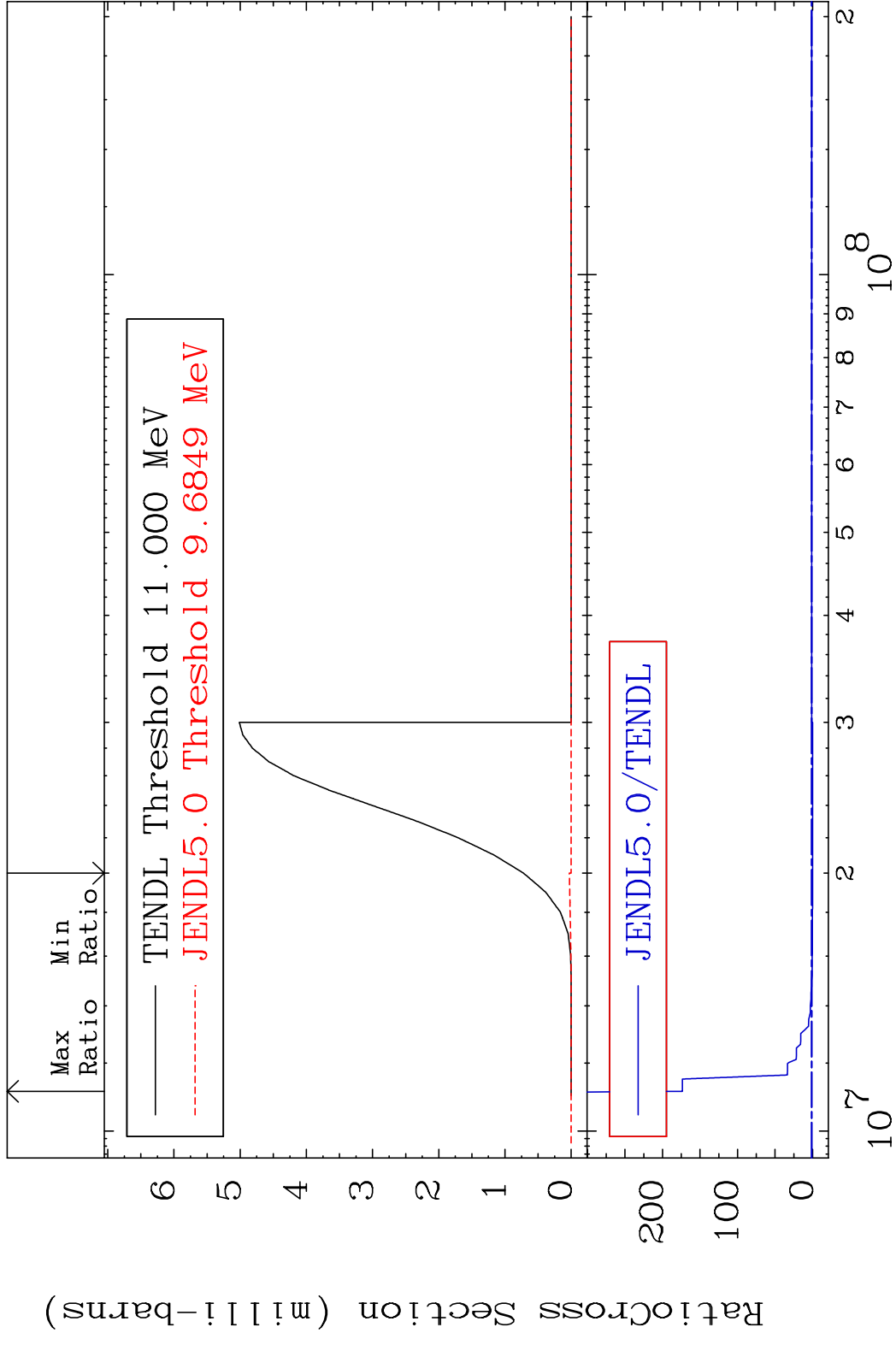


MAT 5031 (n, t): 49-In-112g 50-Sn-114
 Radionuclide Production Cross Section Ratio 9999. %



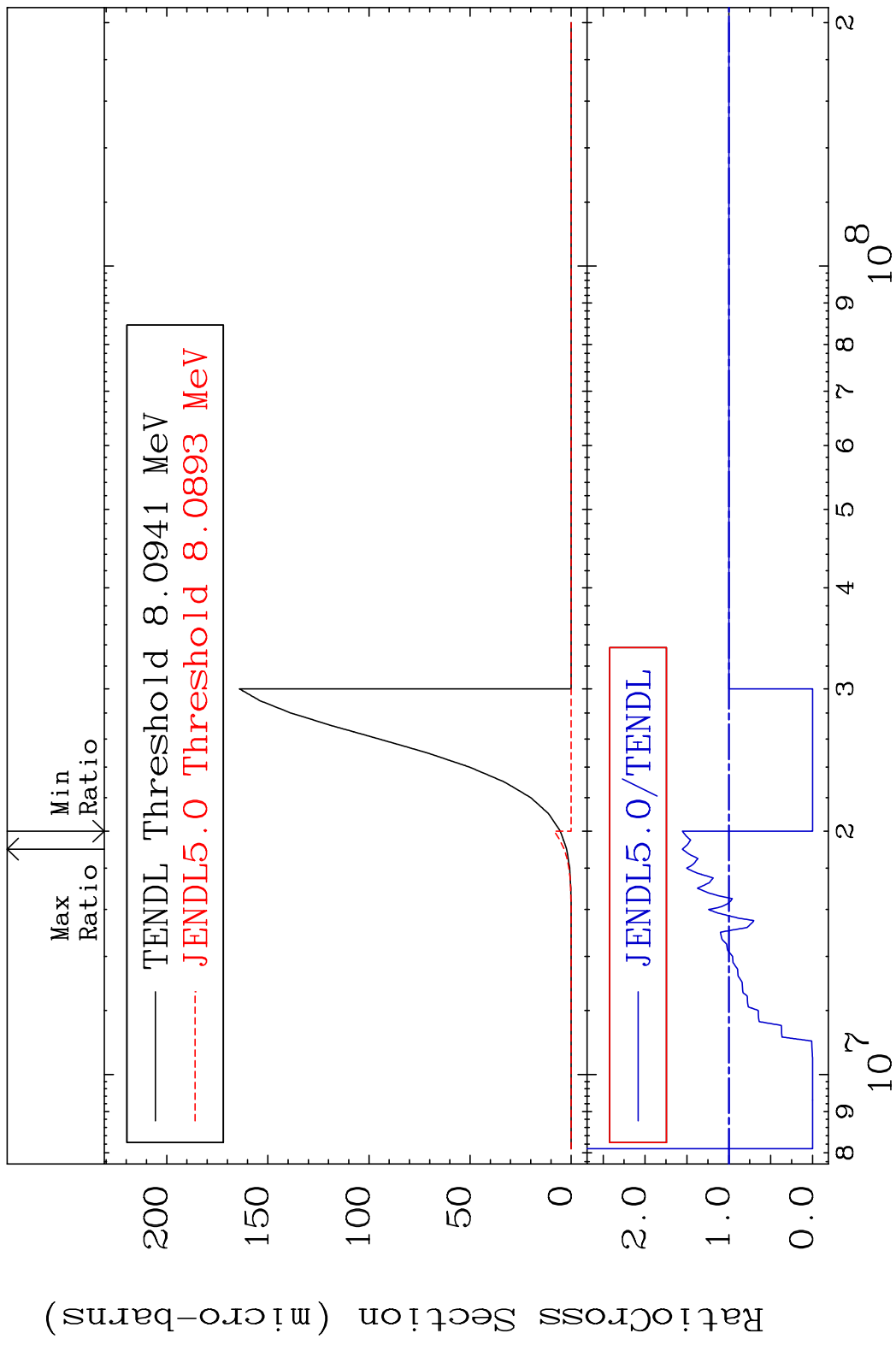
65 50-Sn-114

MAT 5031 (n, t): 49-In-112m1 50-Sn-114
 Radionuclide Production Cross Section Ratio

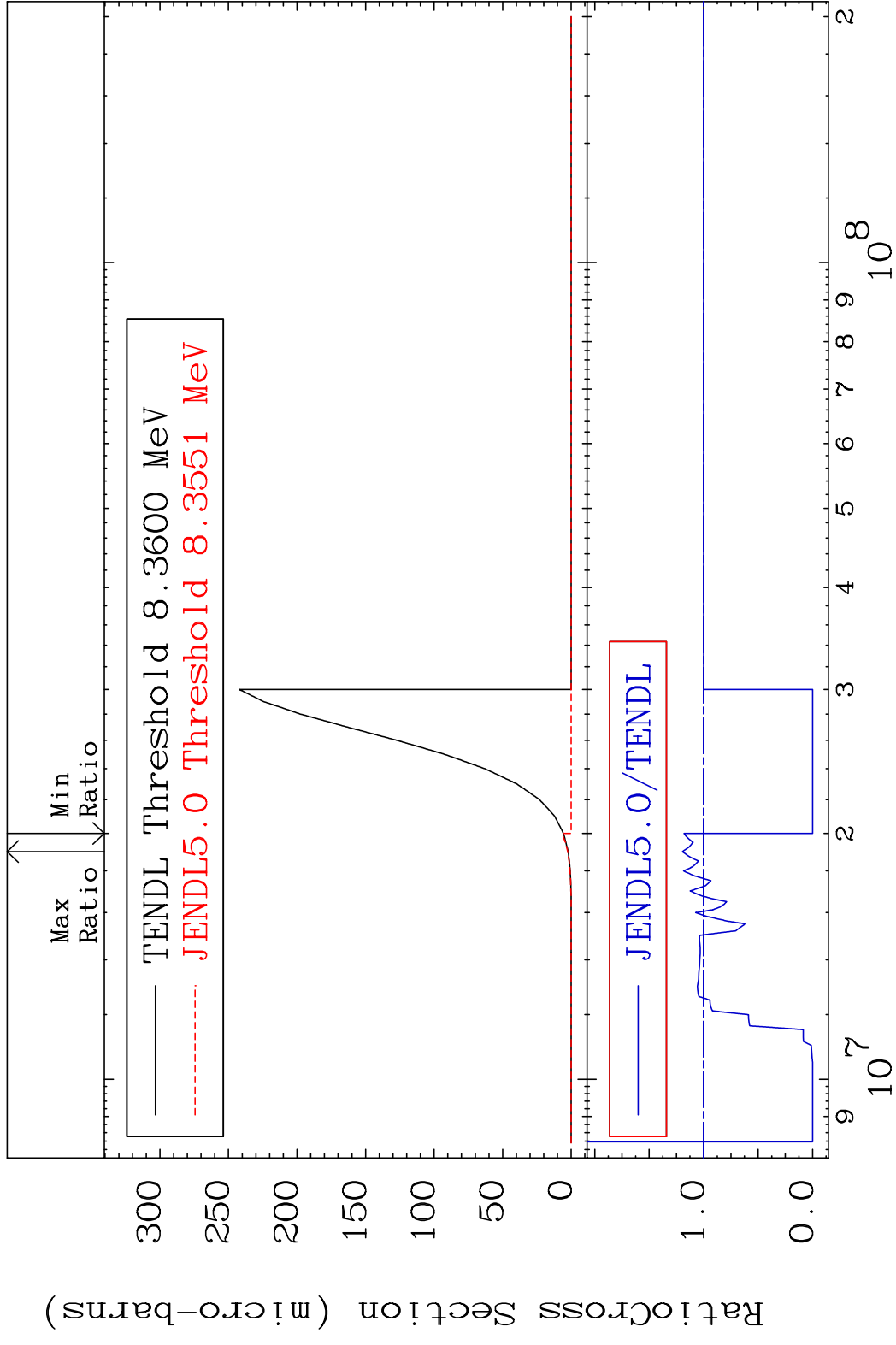


66 Incident Energy (eV) 50-Sn-114

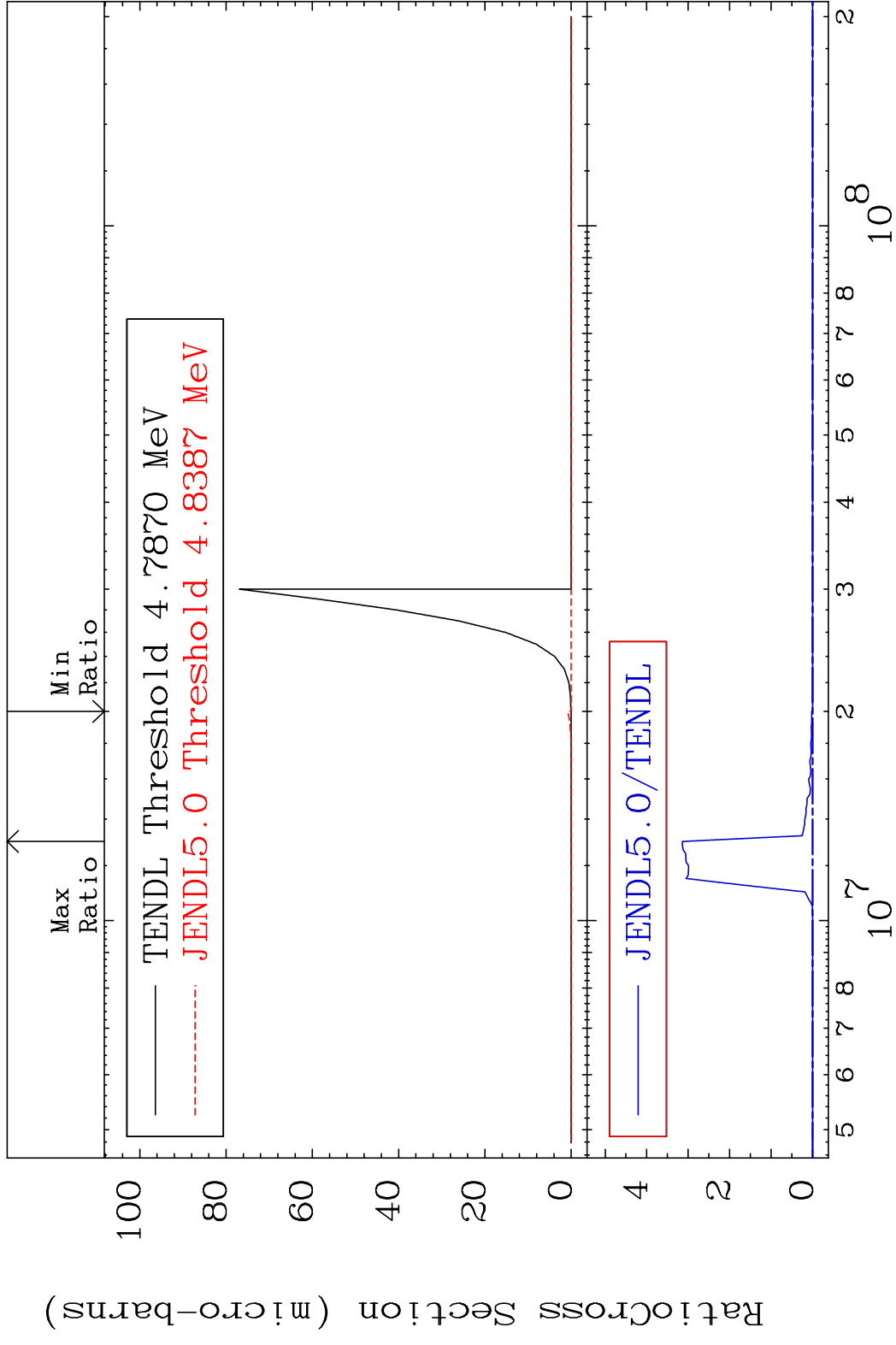
MAT 5031 (n,2p):48-Cd-113g 50-Sn-114
 Radionuclide Production Cross Section 180.01 dth 55.47 %



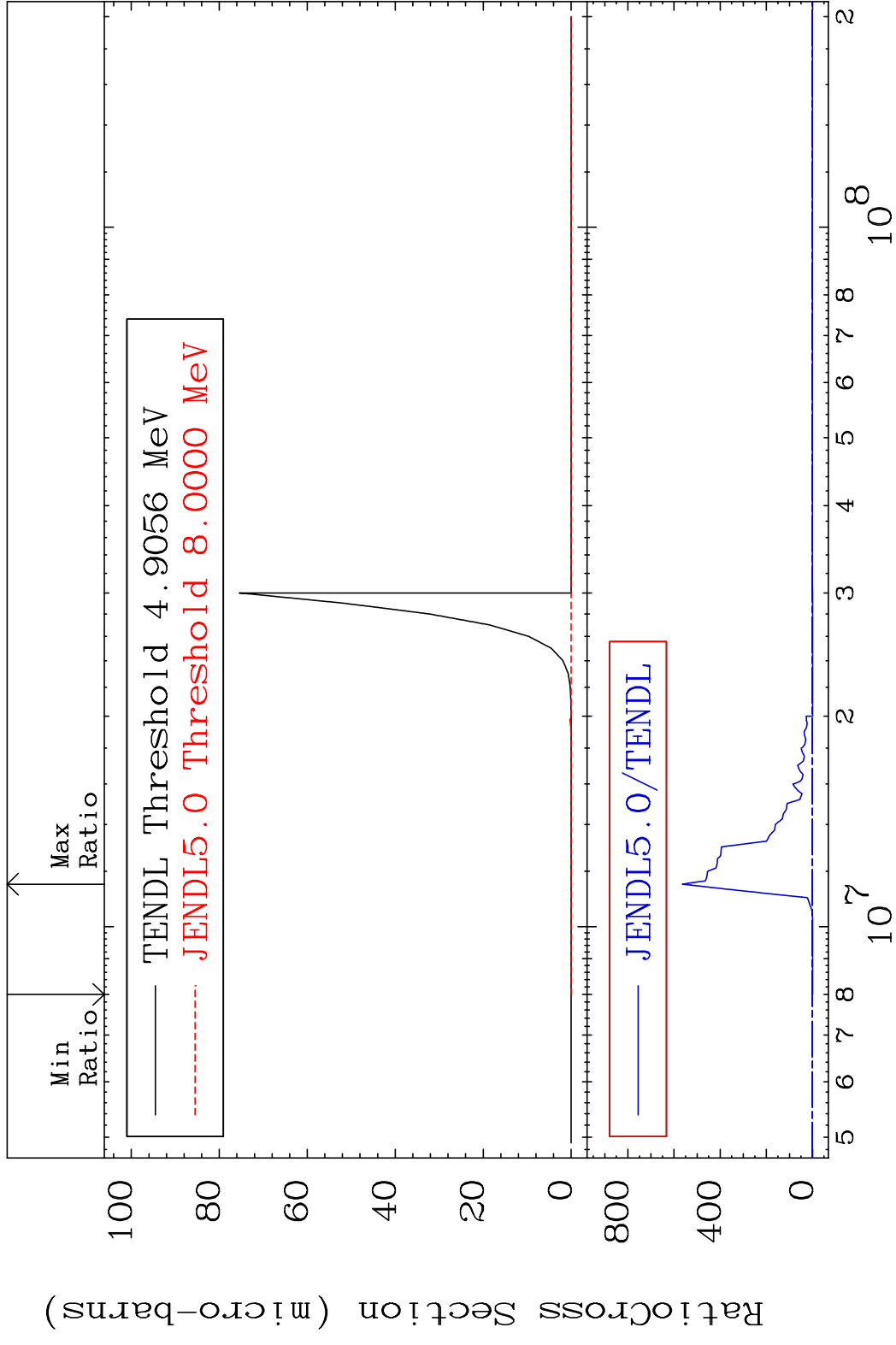
MAT 5031 (n, 2p) : 48-Cd-113m1 50-Sn-114
 Radionuclide Production Cross Section 180.0 mb 19.54 %



MAT 5031 (n, p) α :47-Ag-110g 50-Sn-114
 Radionuclide Production Cross Section to 9999. %



MAT 5031 (n, p) α :47-Ag-110m2 50-Sn-114
 Radionuclide Production Cross Section 100.00% 9999. %



70 Incident Energy (eV) 50-Sn-114