

Program Complot
(Version 2021-1)

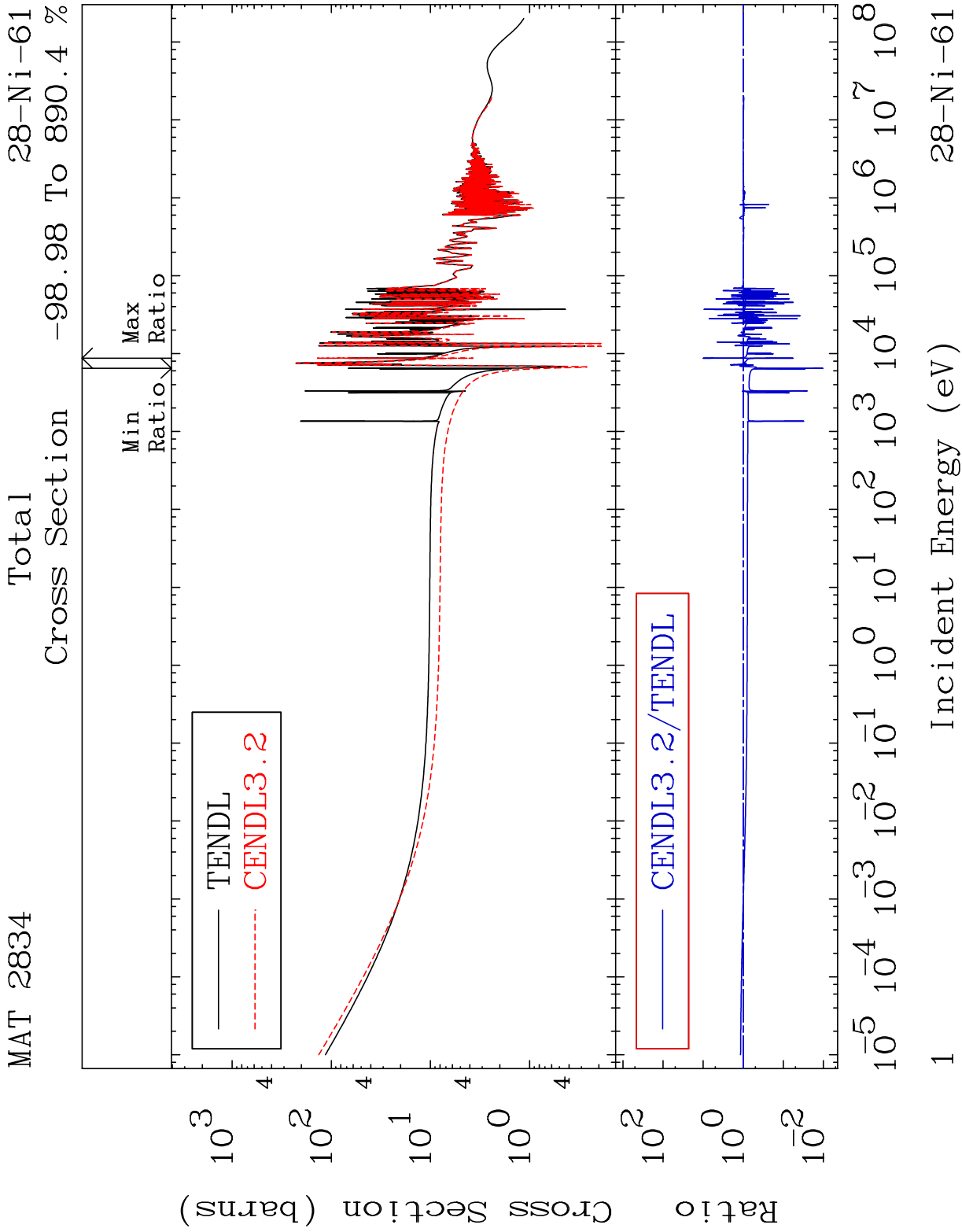
by

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



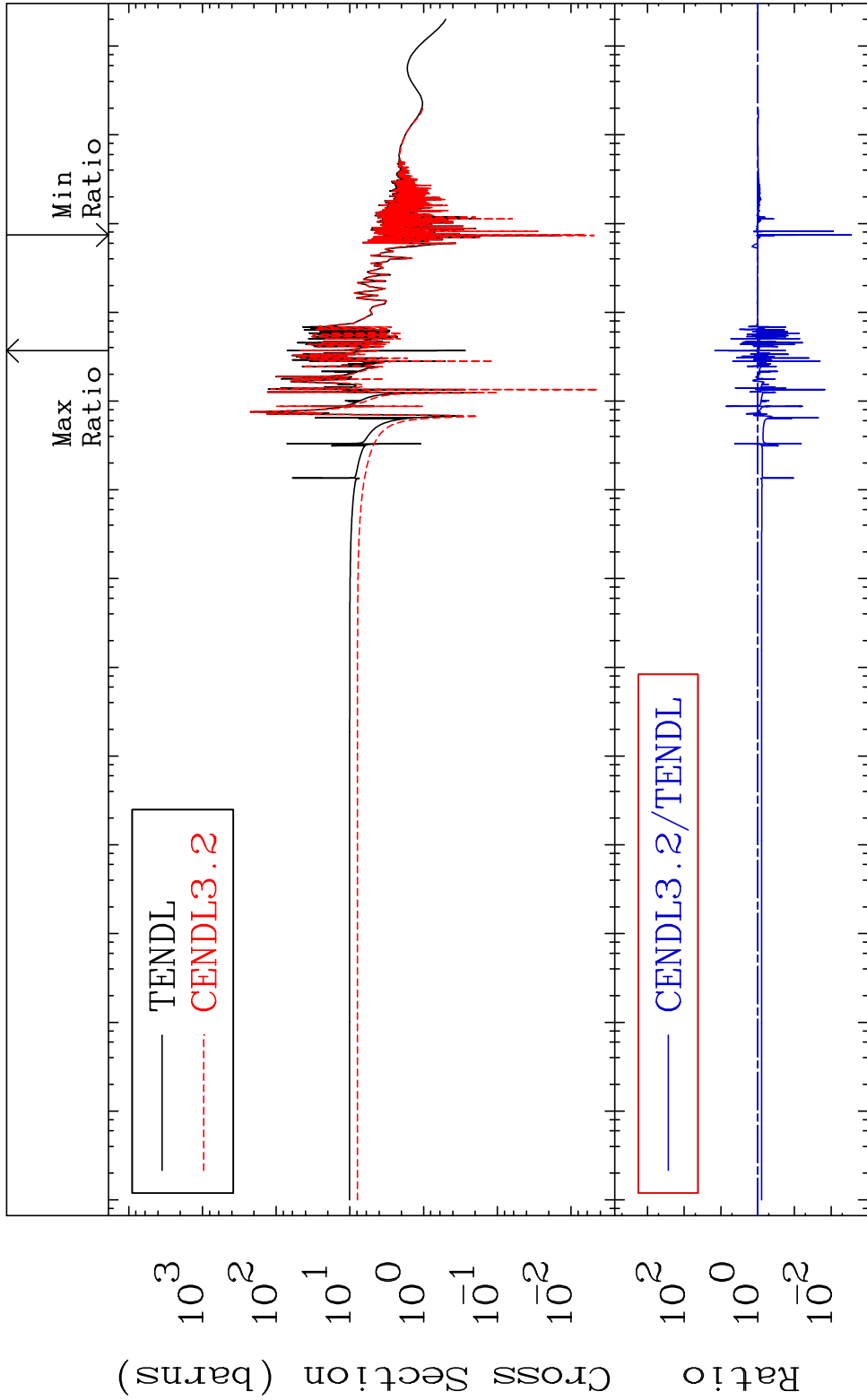
MAT 2834

Elastic

²⁸Ni-61

Cross Section

-99.72 To 1381. %

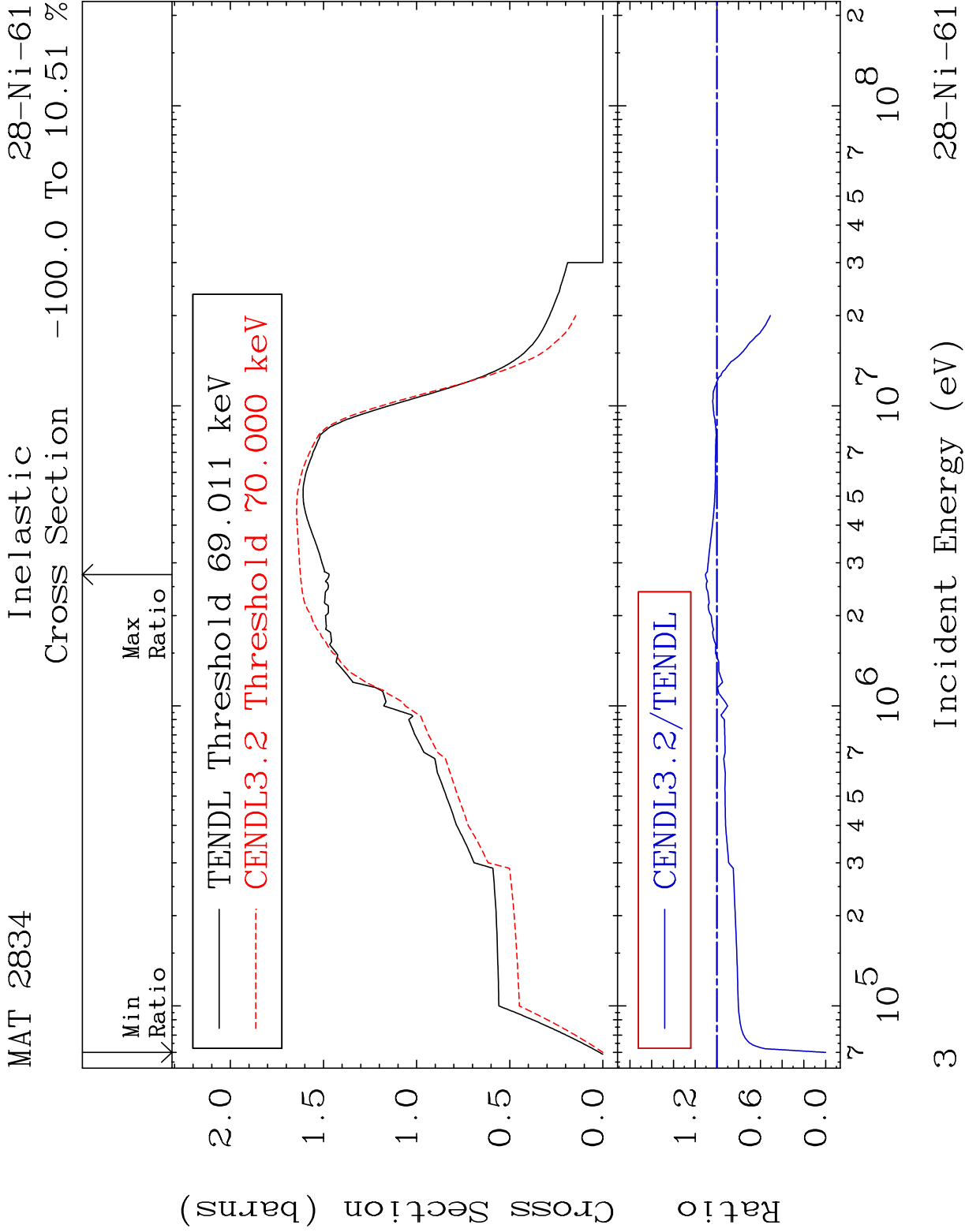


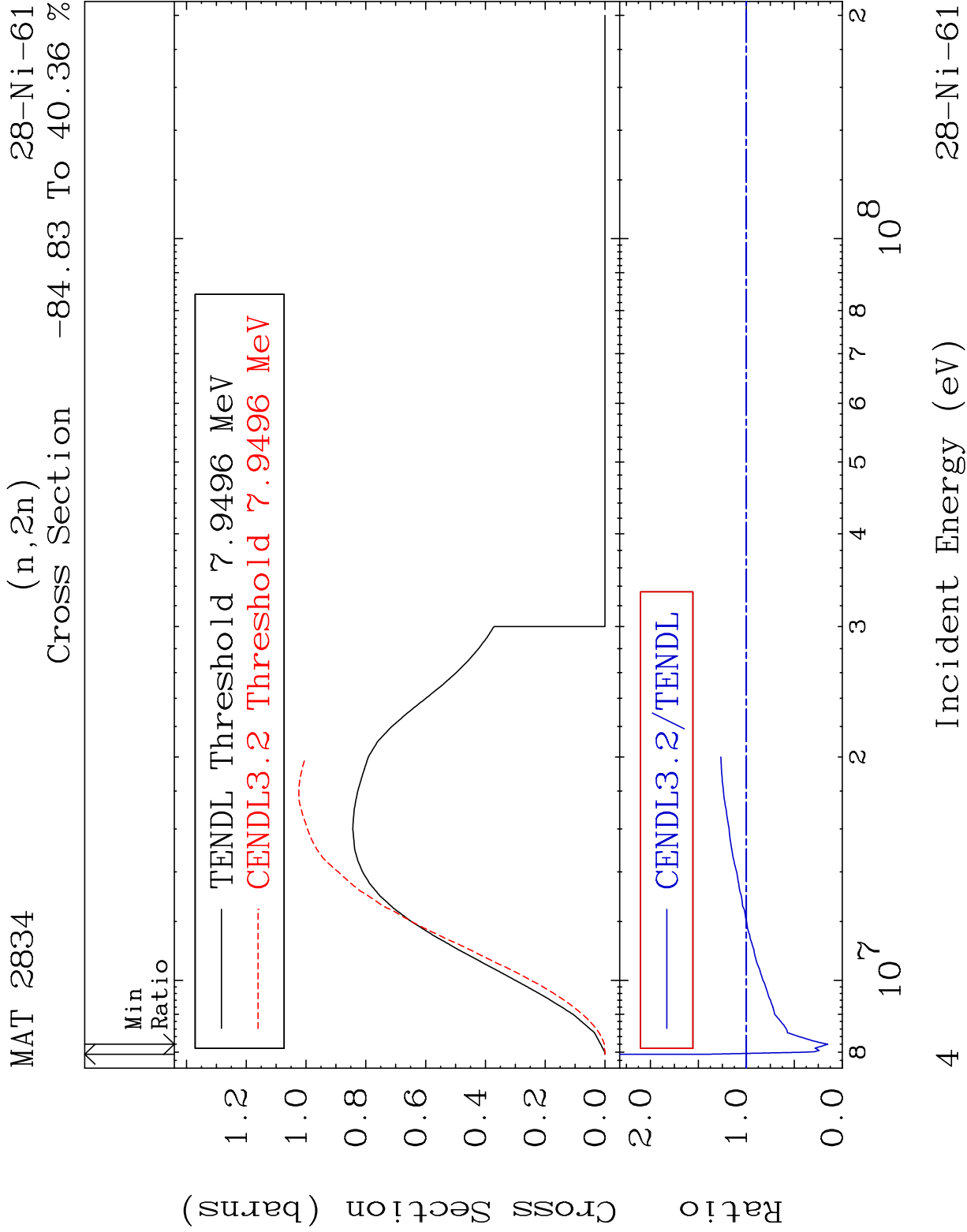
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8

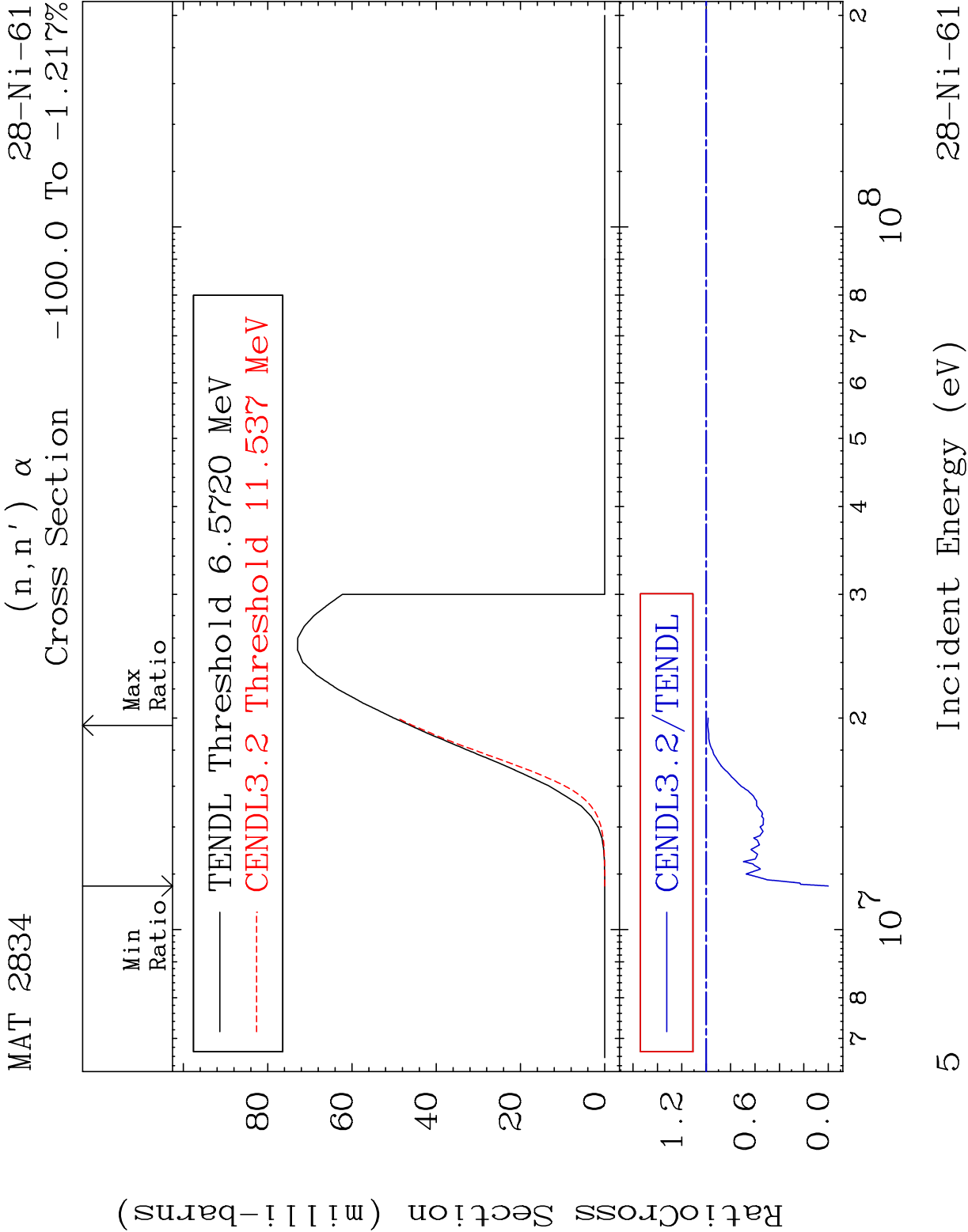
2

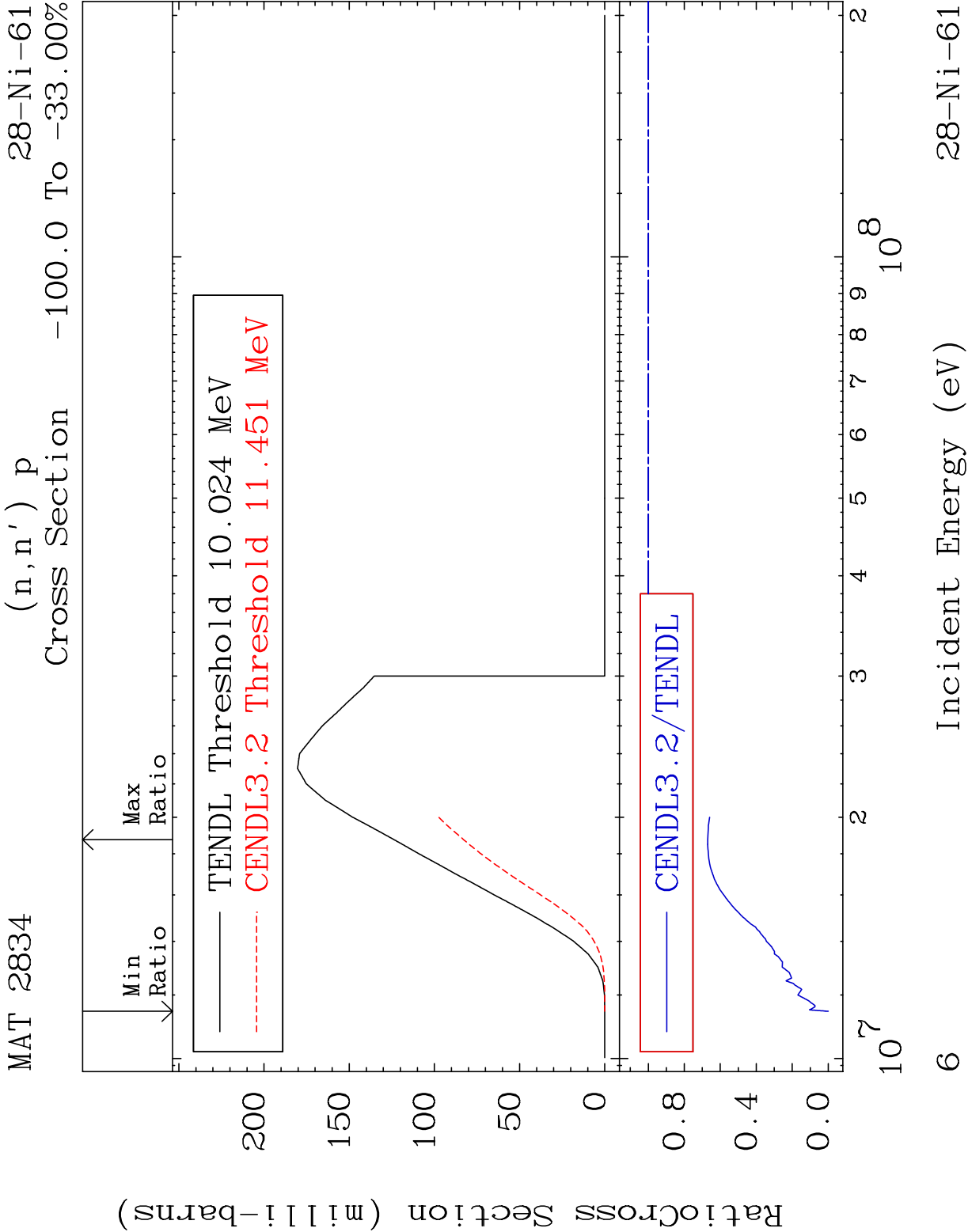
Incident Energy (eV)

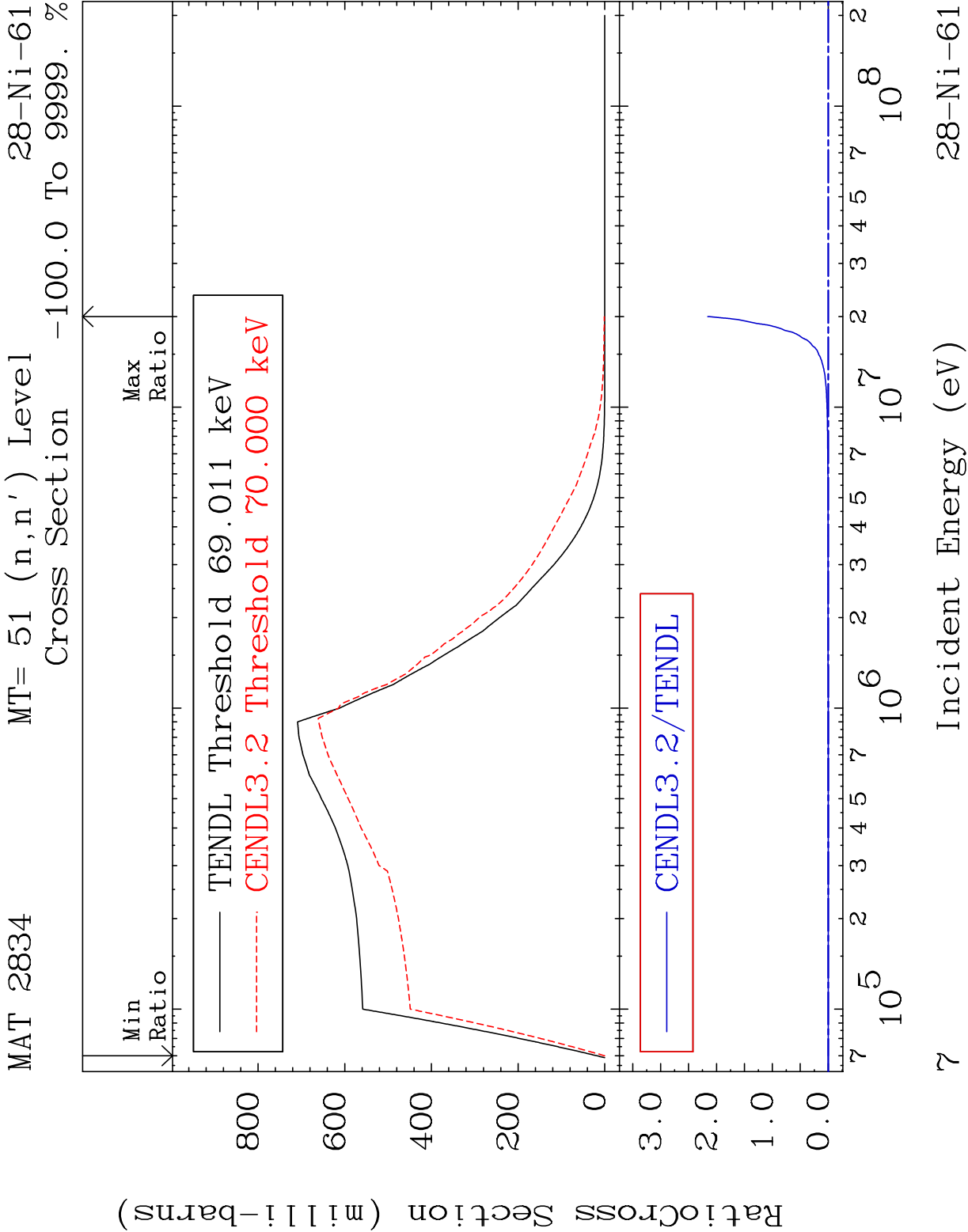
²⁸Ni-61

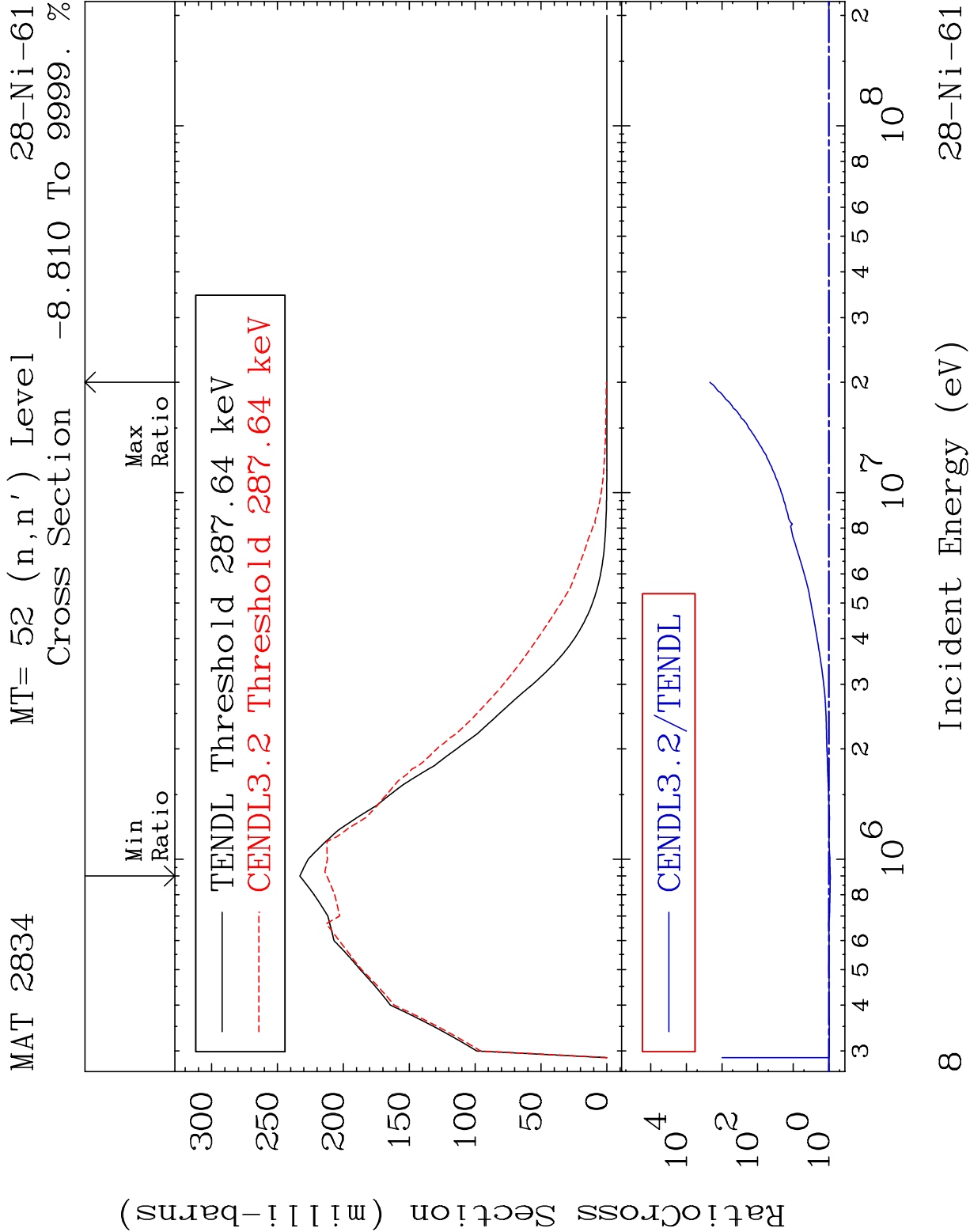




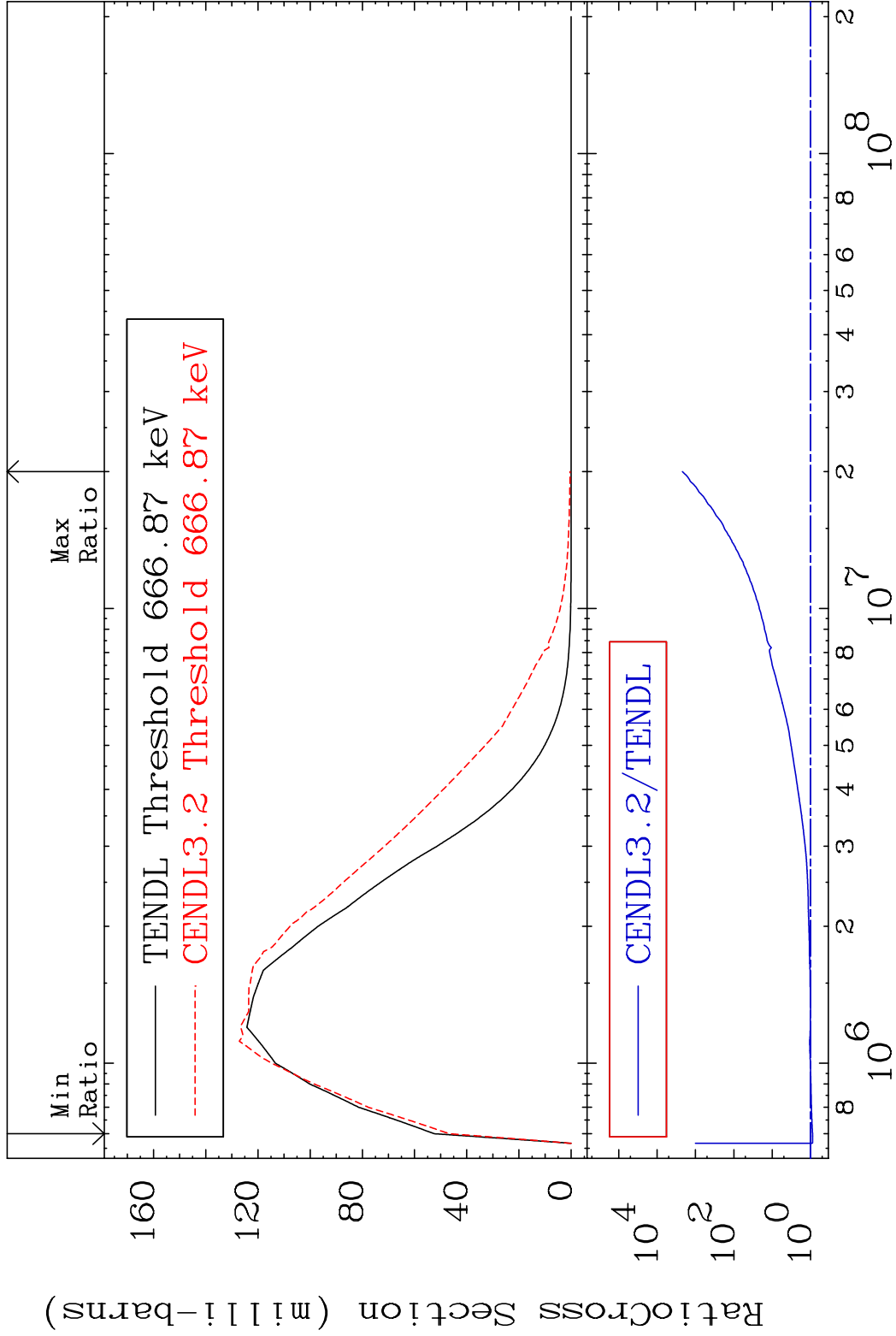


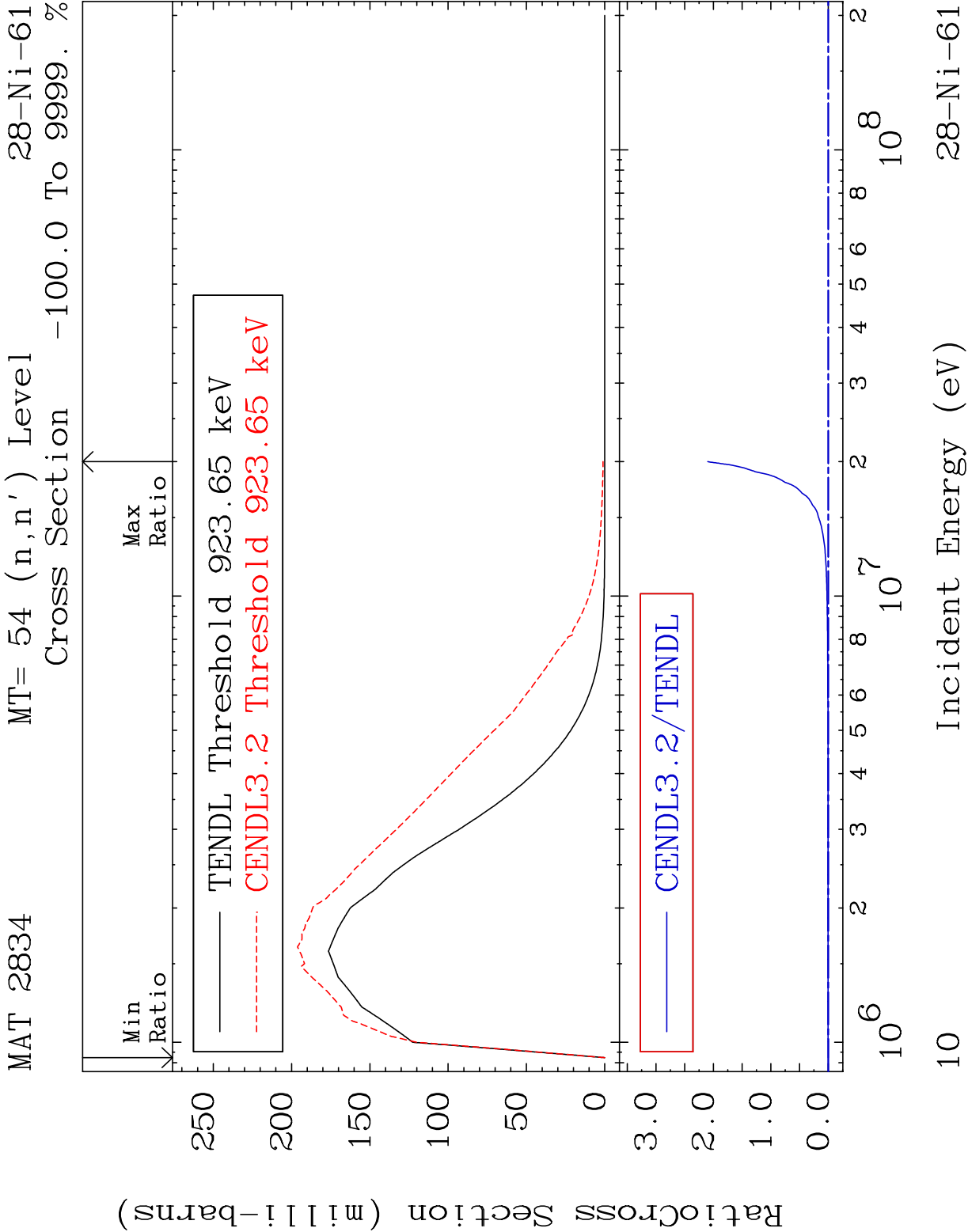


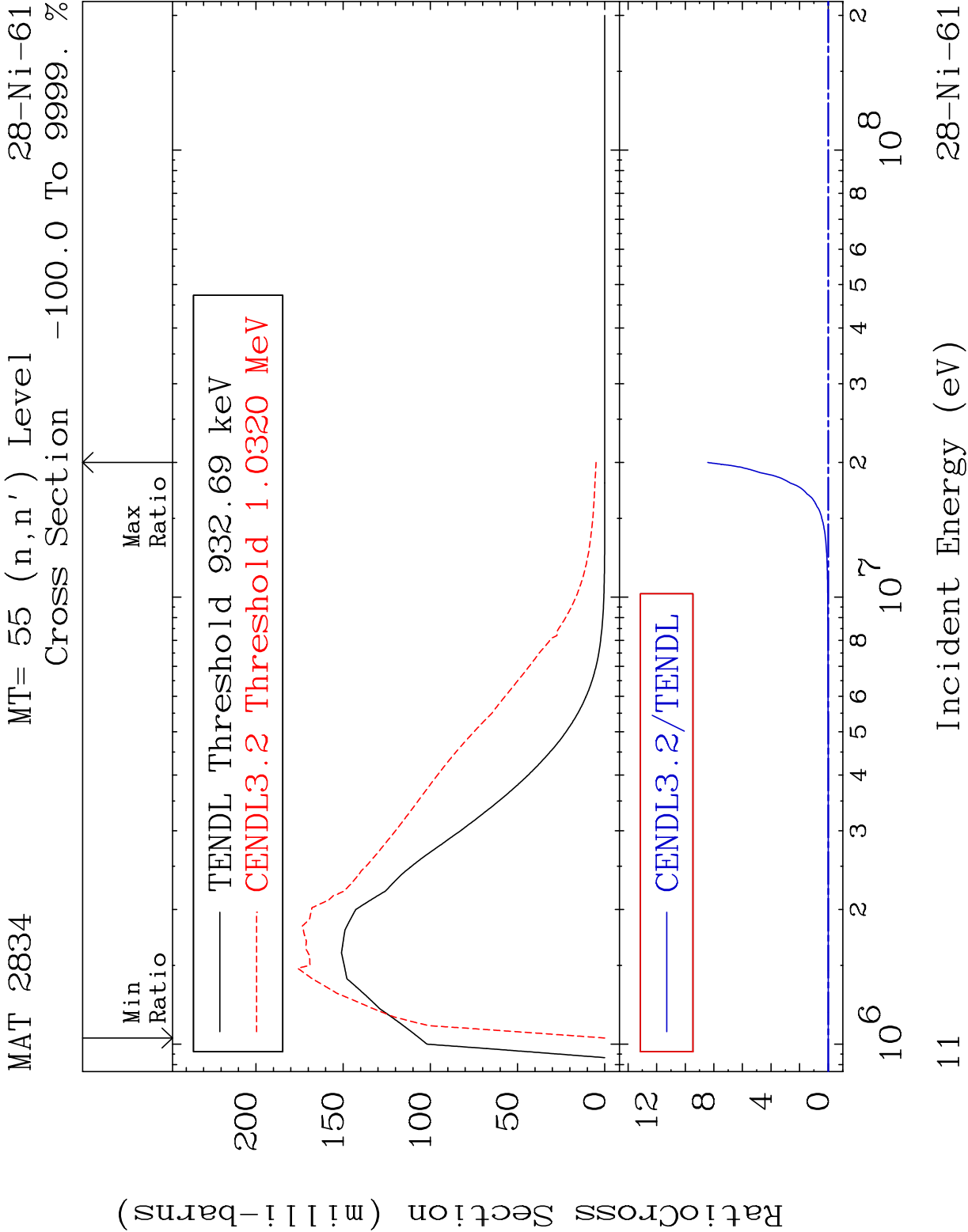


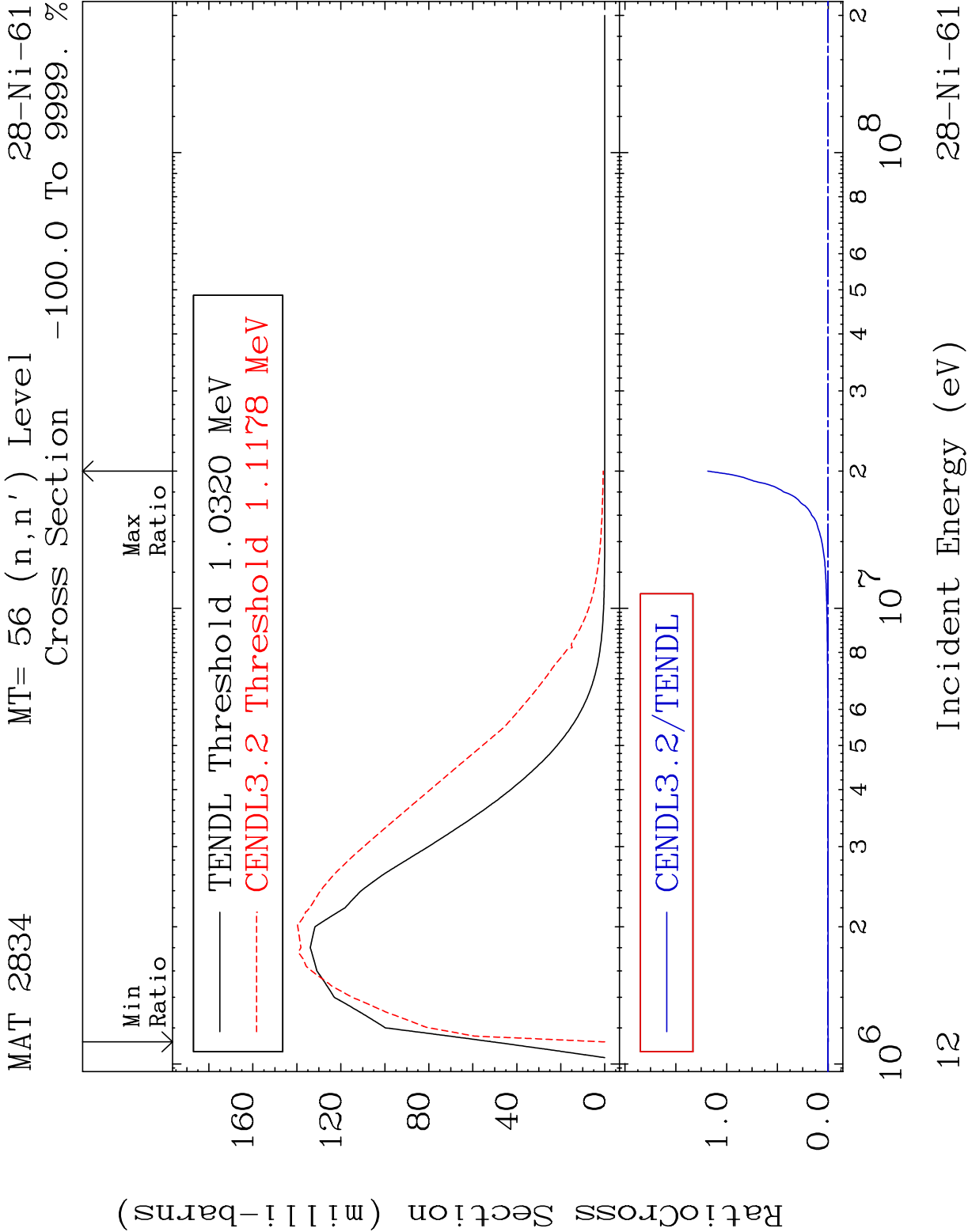


MAT 2834 MT= 53 (n,n') Level 28-Ni-61
Cross Section -10.93 To 9999. %







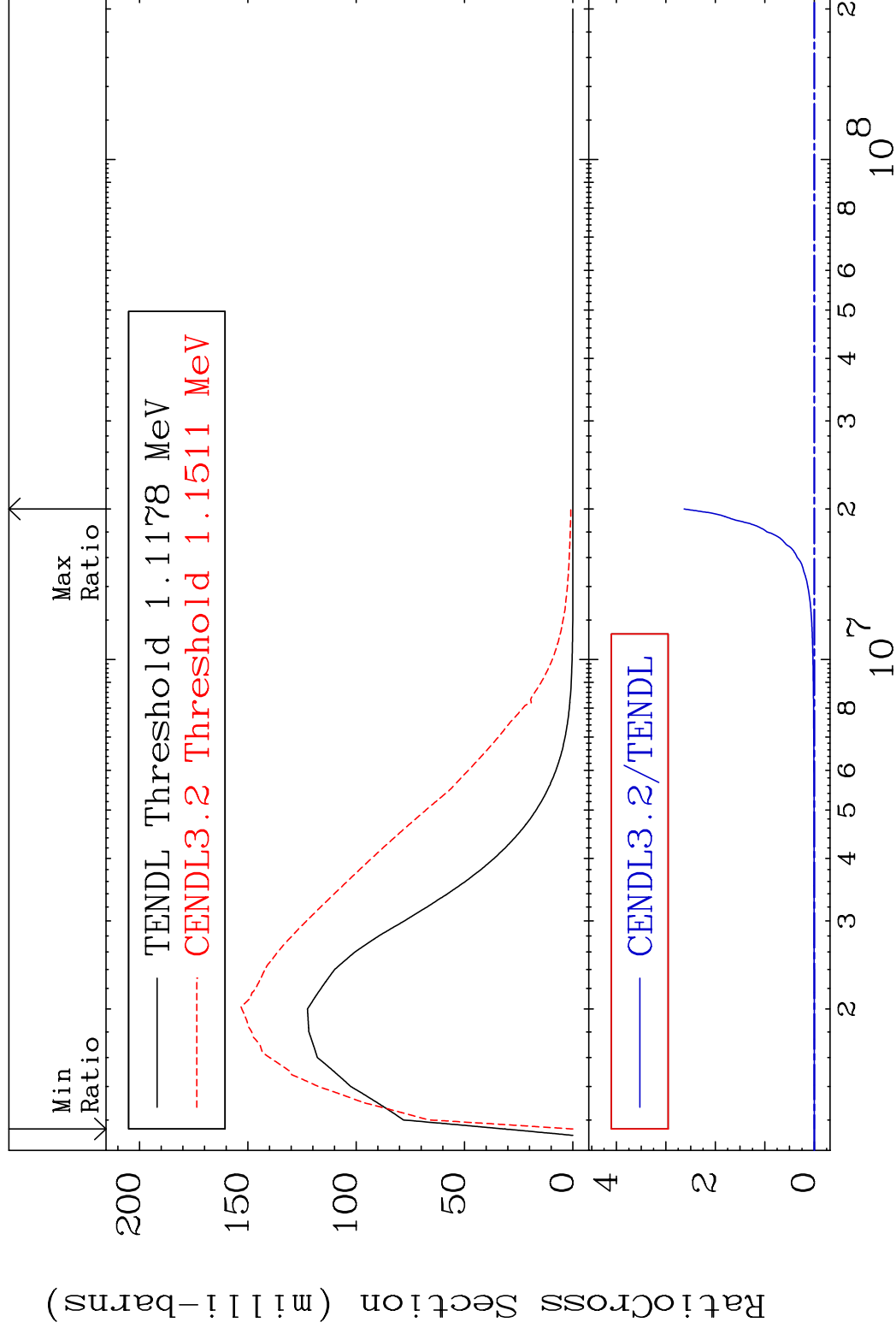


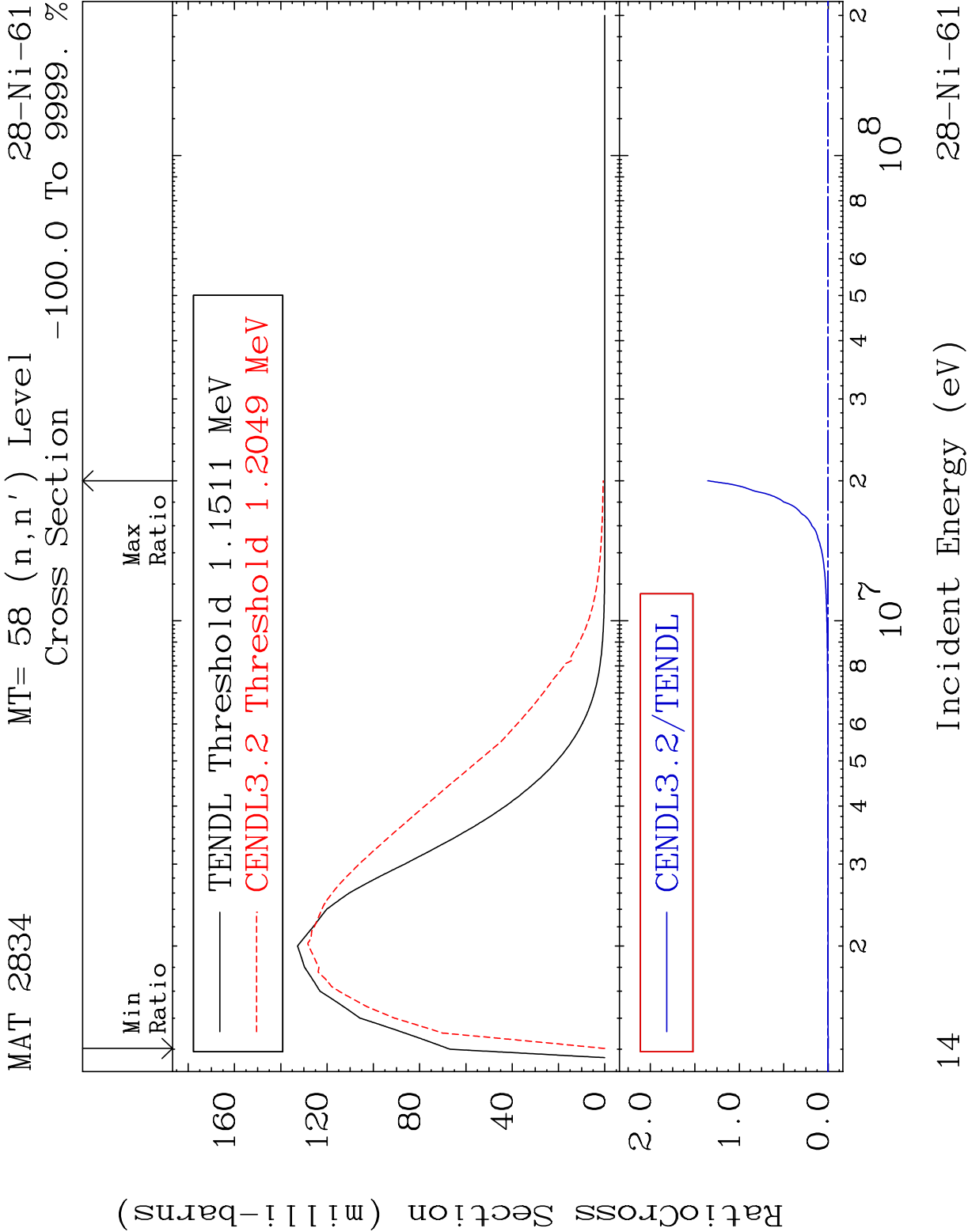
MAT 2834

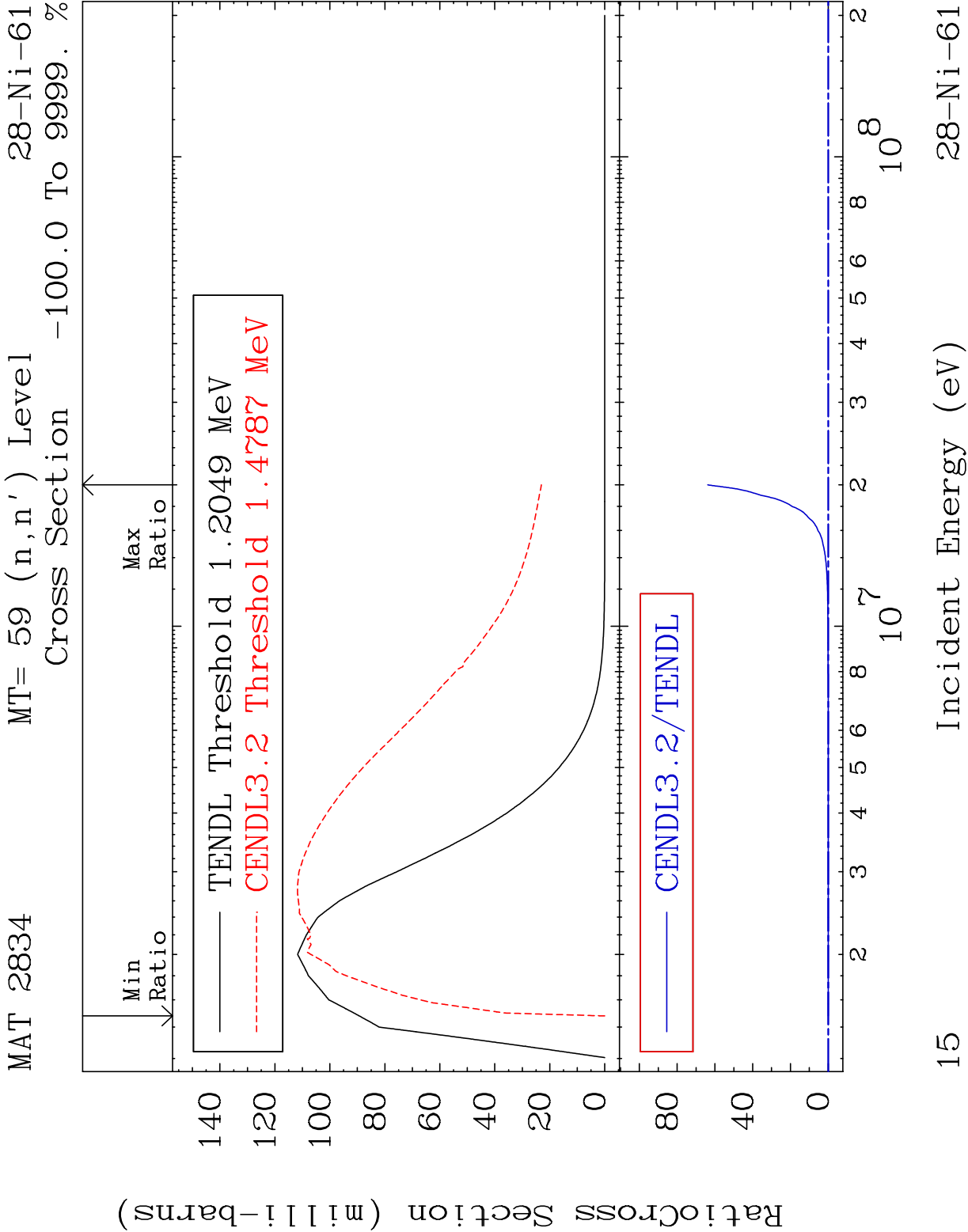
MT= 57 (n, n') Level

 $^{28}\text{Ni-61}$

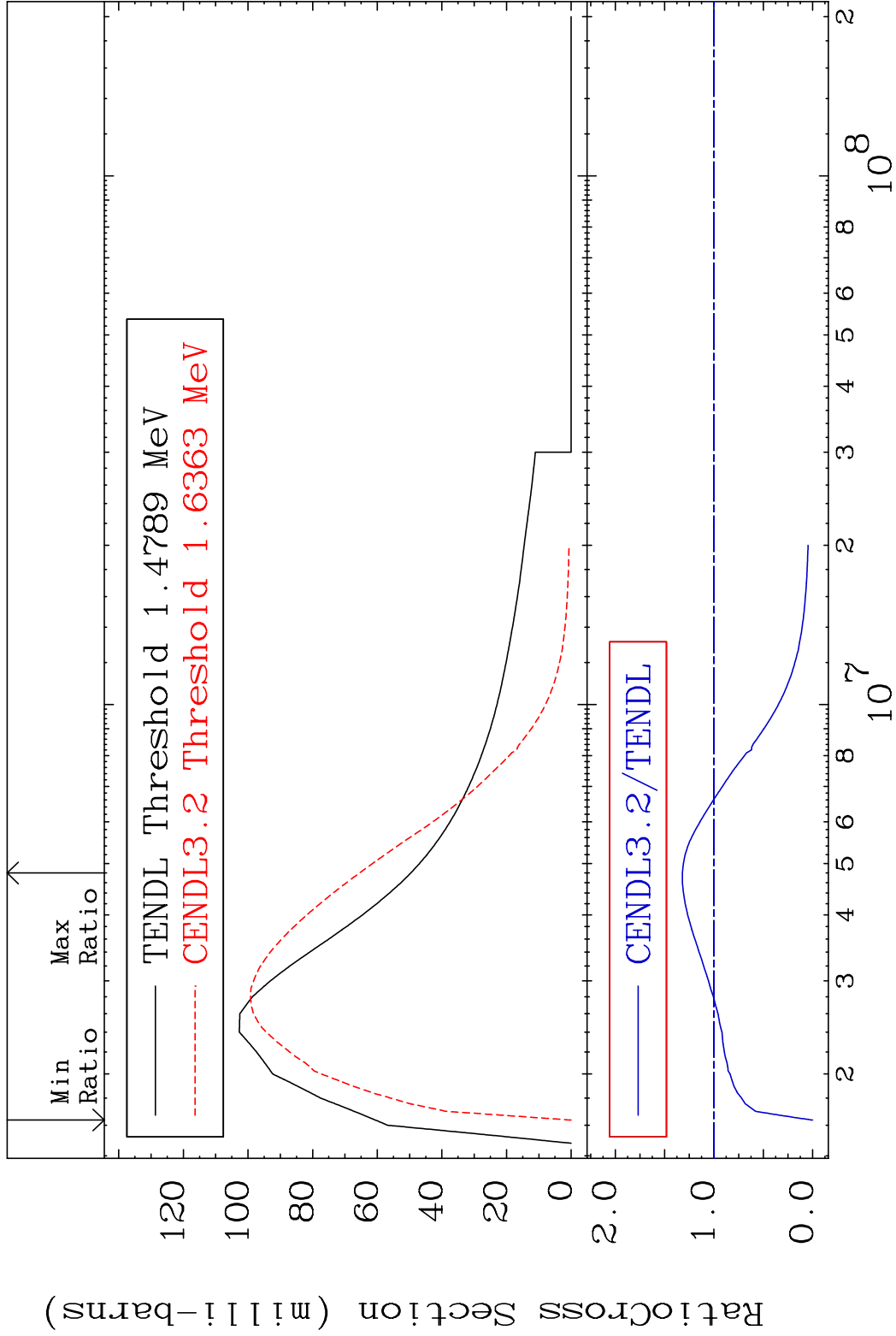
Cross Section -100.0 To 9999. %

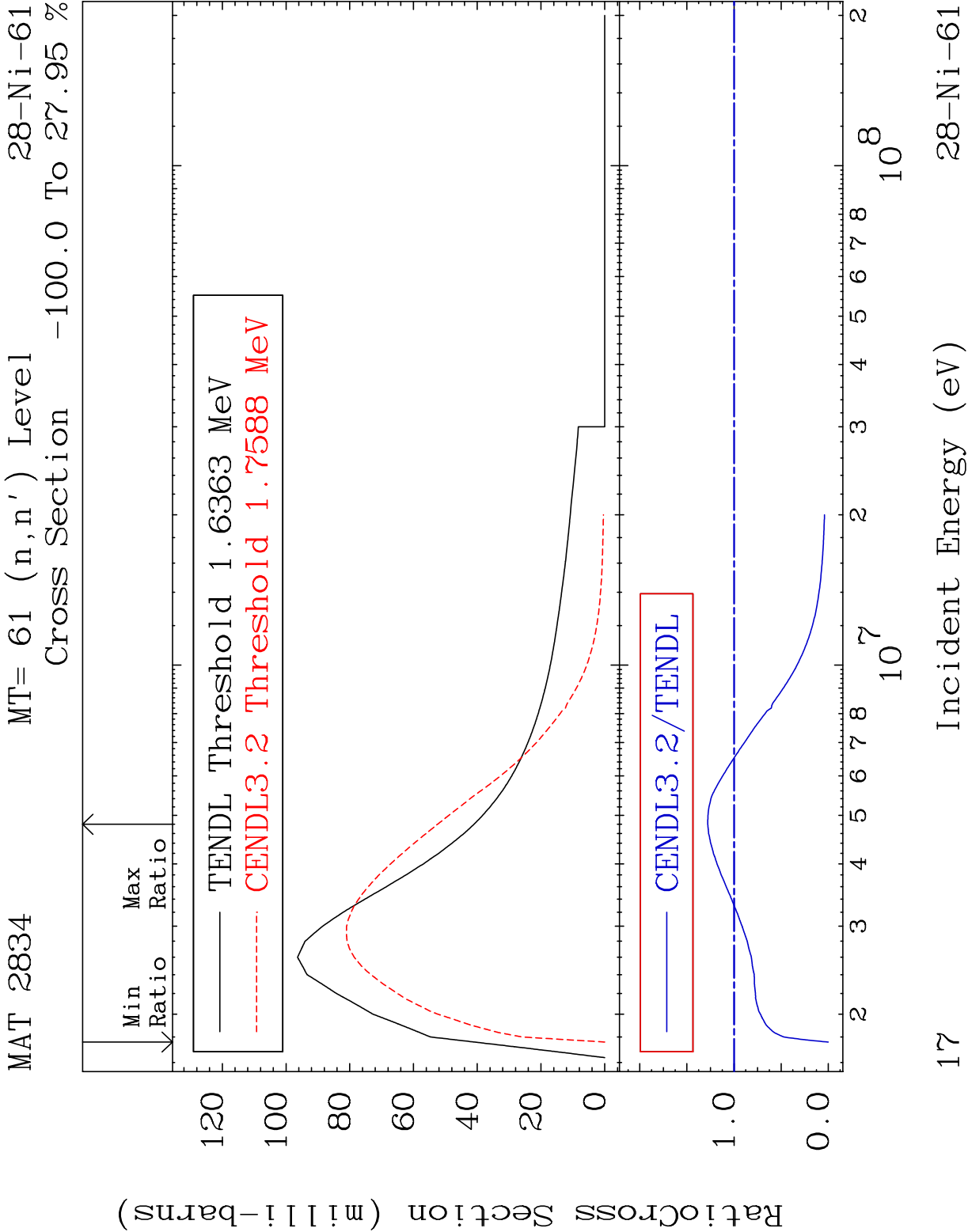






MAT 2834 MT= 60 (n,n') Level 28-Ni-61
Cross Section -100.0 To 32.05 %





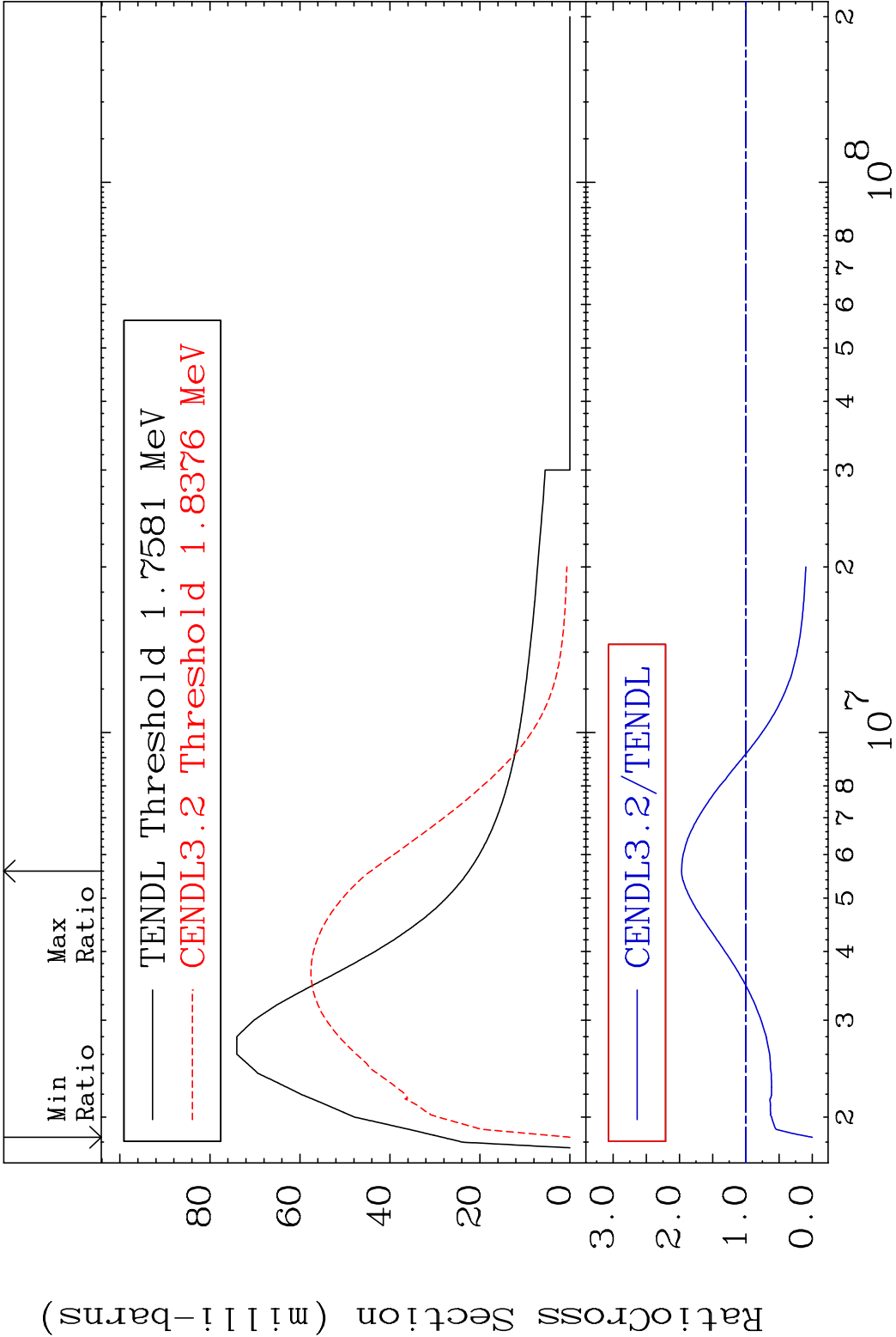
MAT 2834

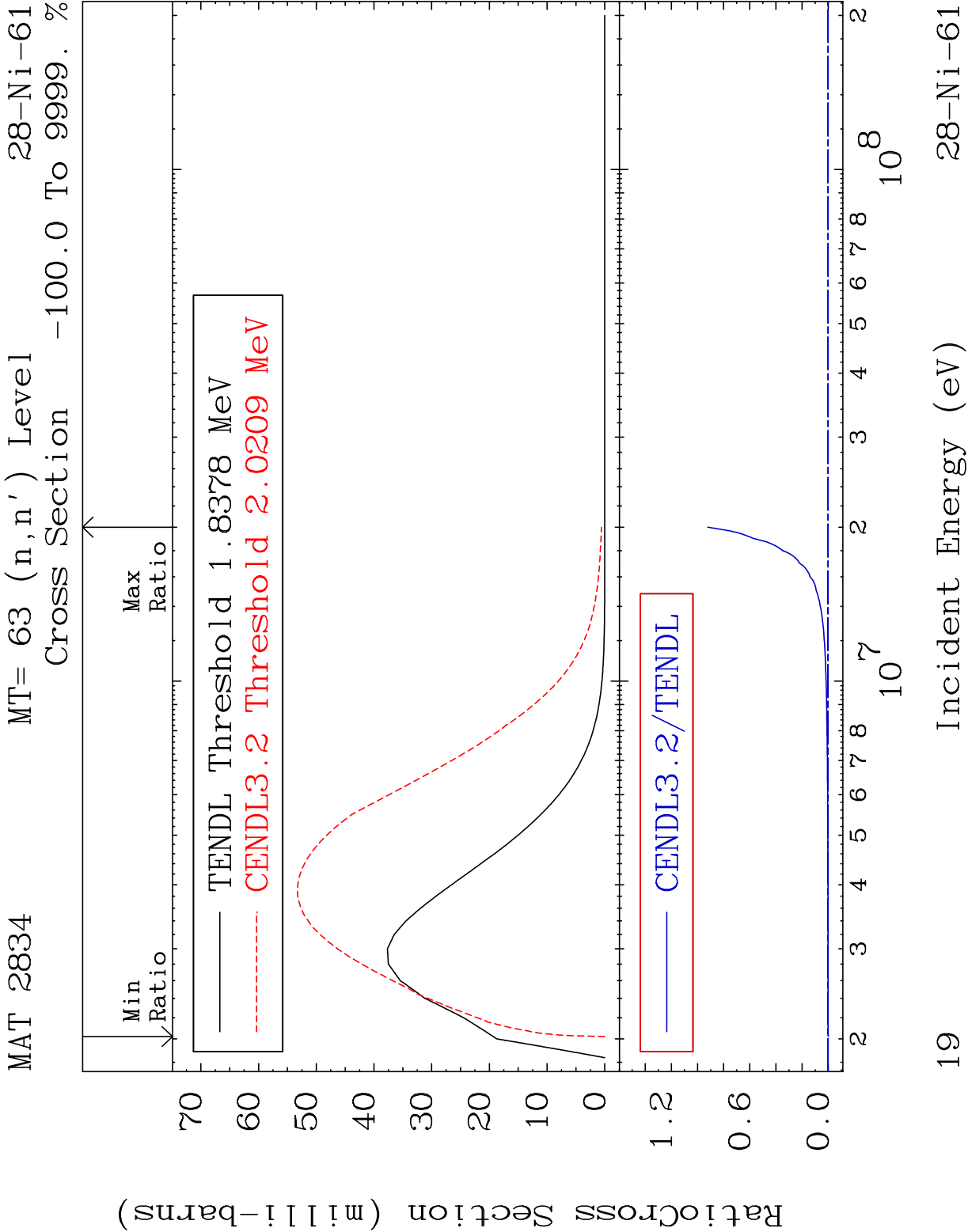
MT= 62 (n,n') Level

28-Ni-61

Cross Section

-100.0 To 96.94 %



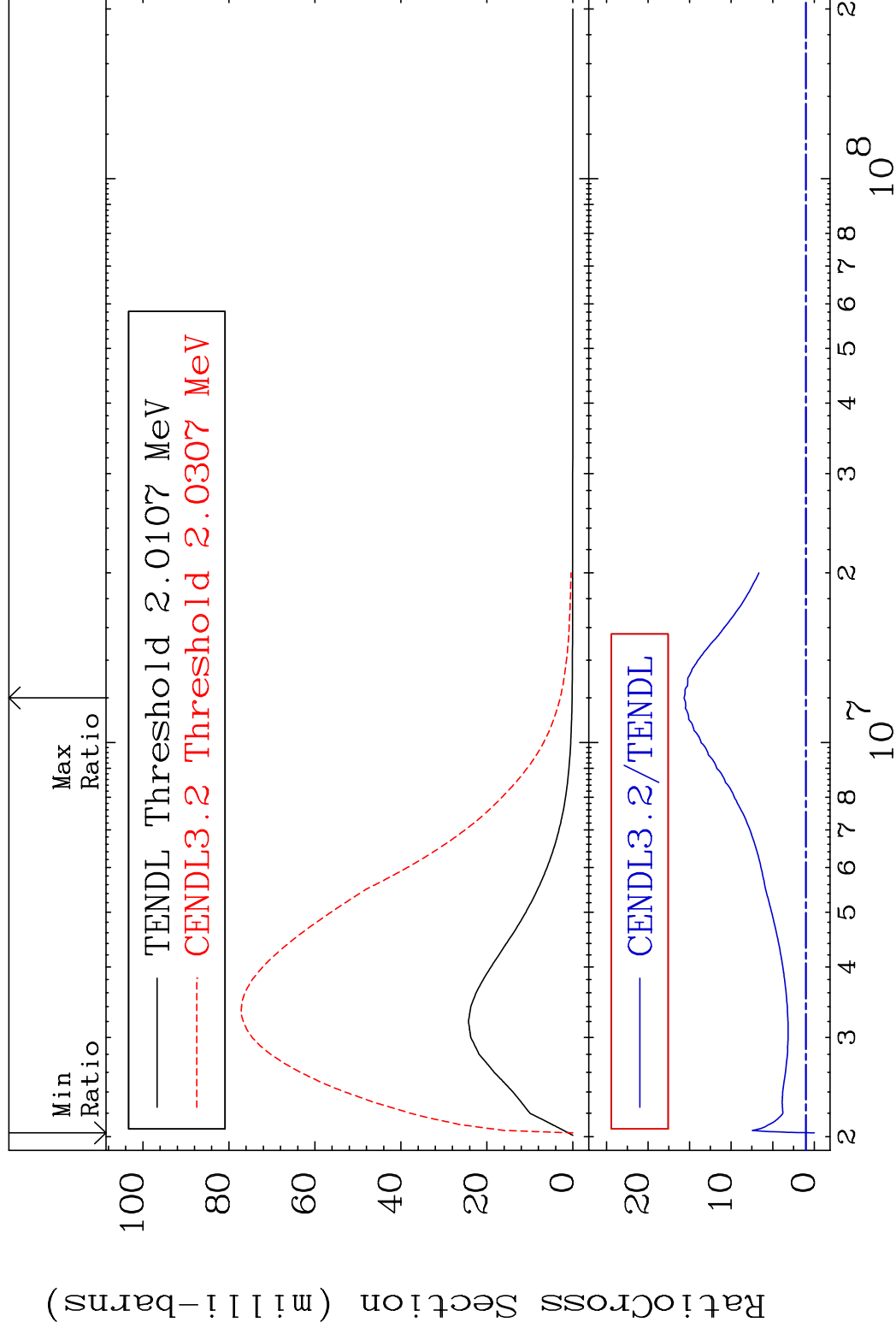


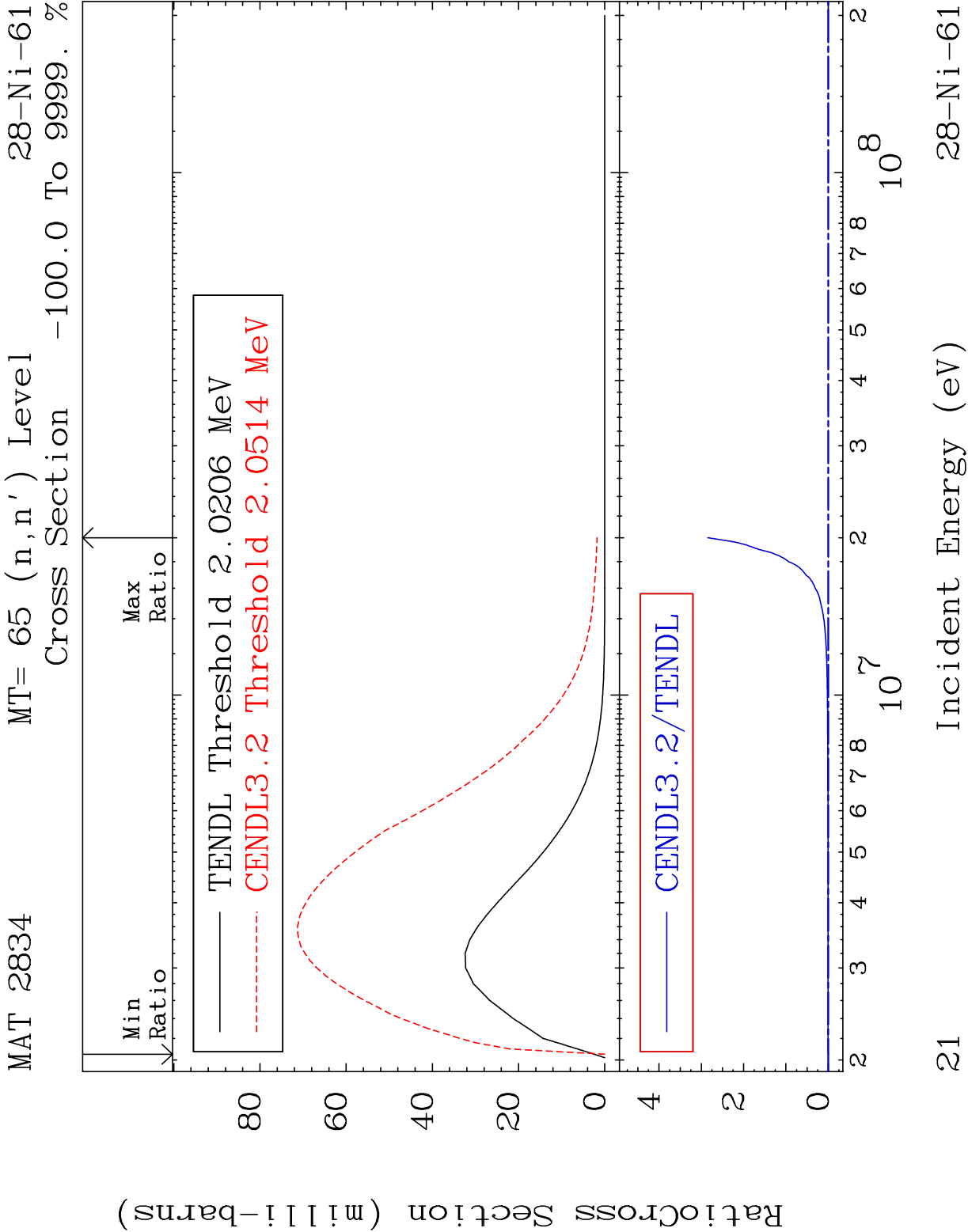
MAT 2834

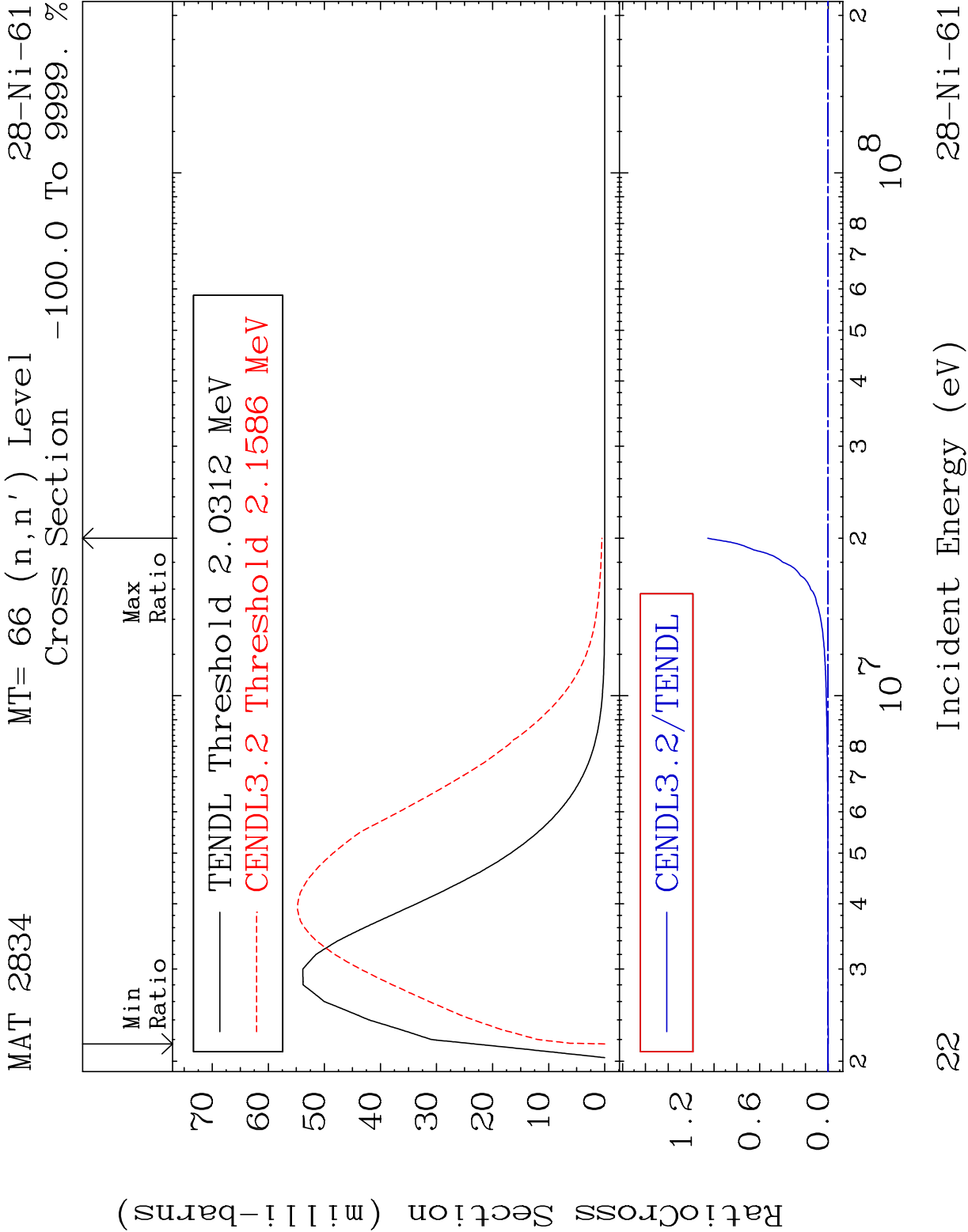
MT= 64 (n, n') Level

 $^{28}\text{Ni-61}$

Cross Section -100.0 To 1467. %







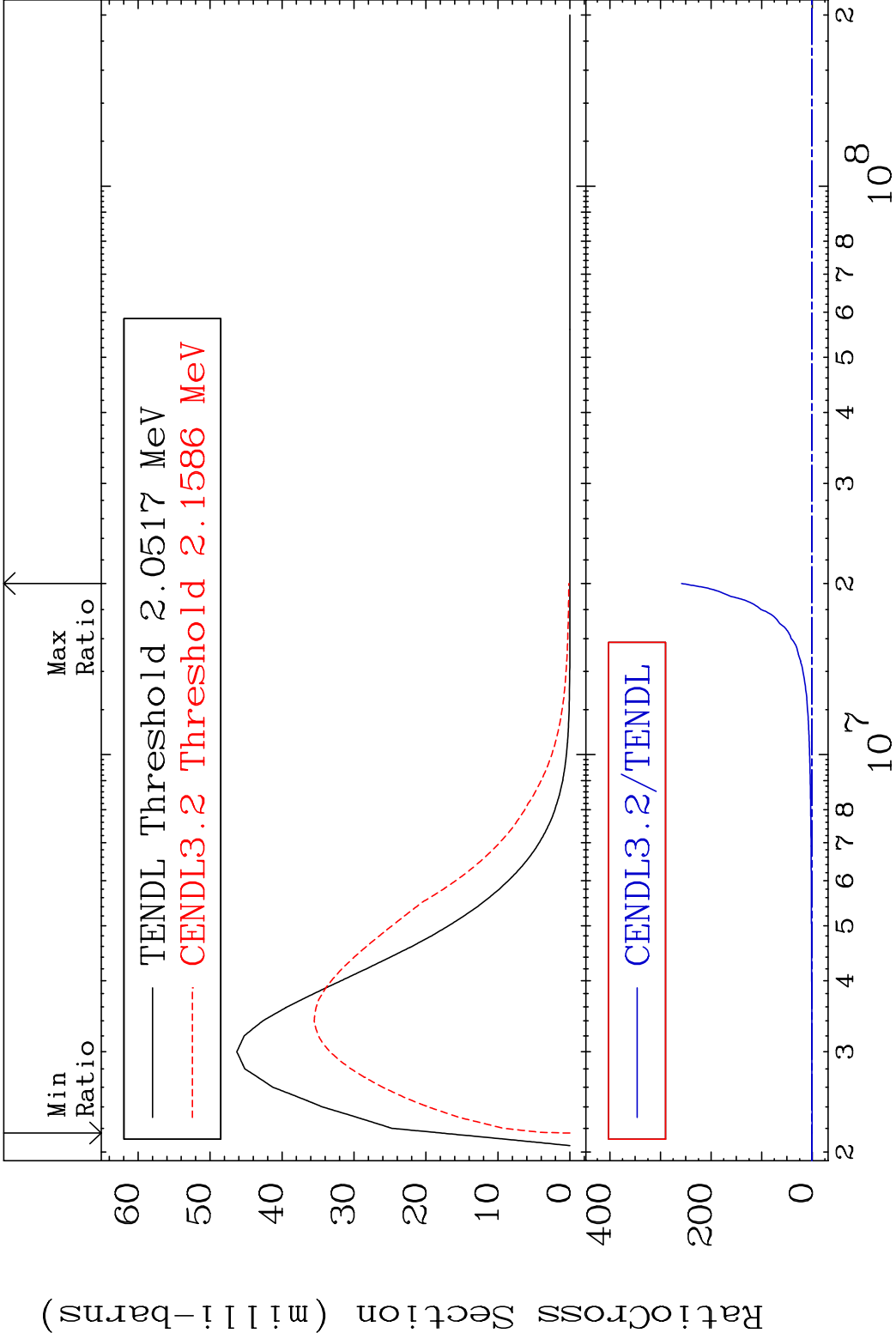
MAT 2834

MT= 67 (n,n') Level

28-Ni-61

Cross Section

-100.0 To 9999. %



23

Incident Energy (eV)

28-Ni-61

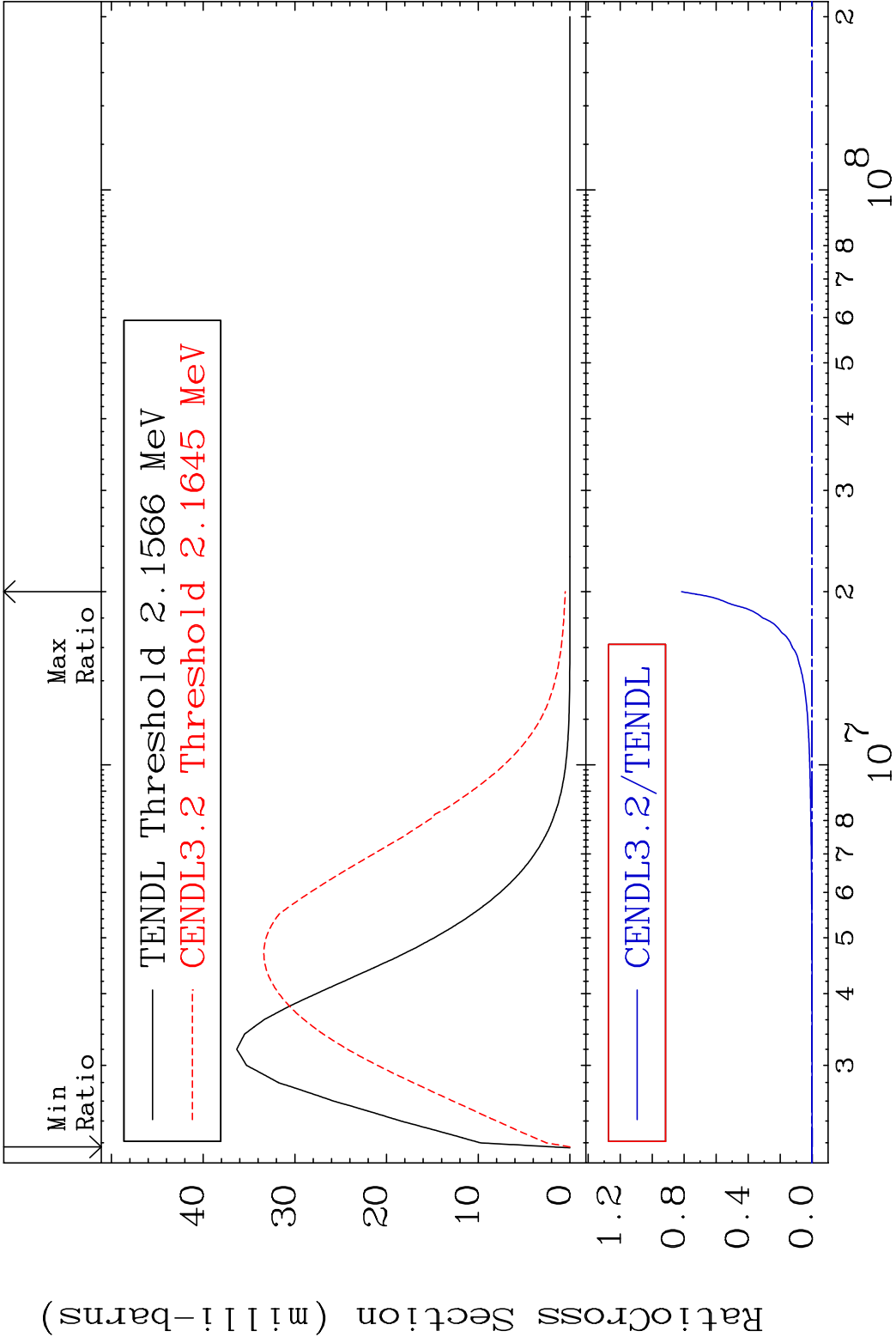
MAT 2834

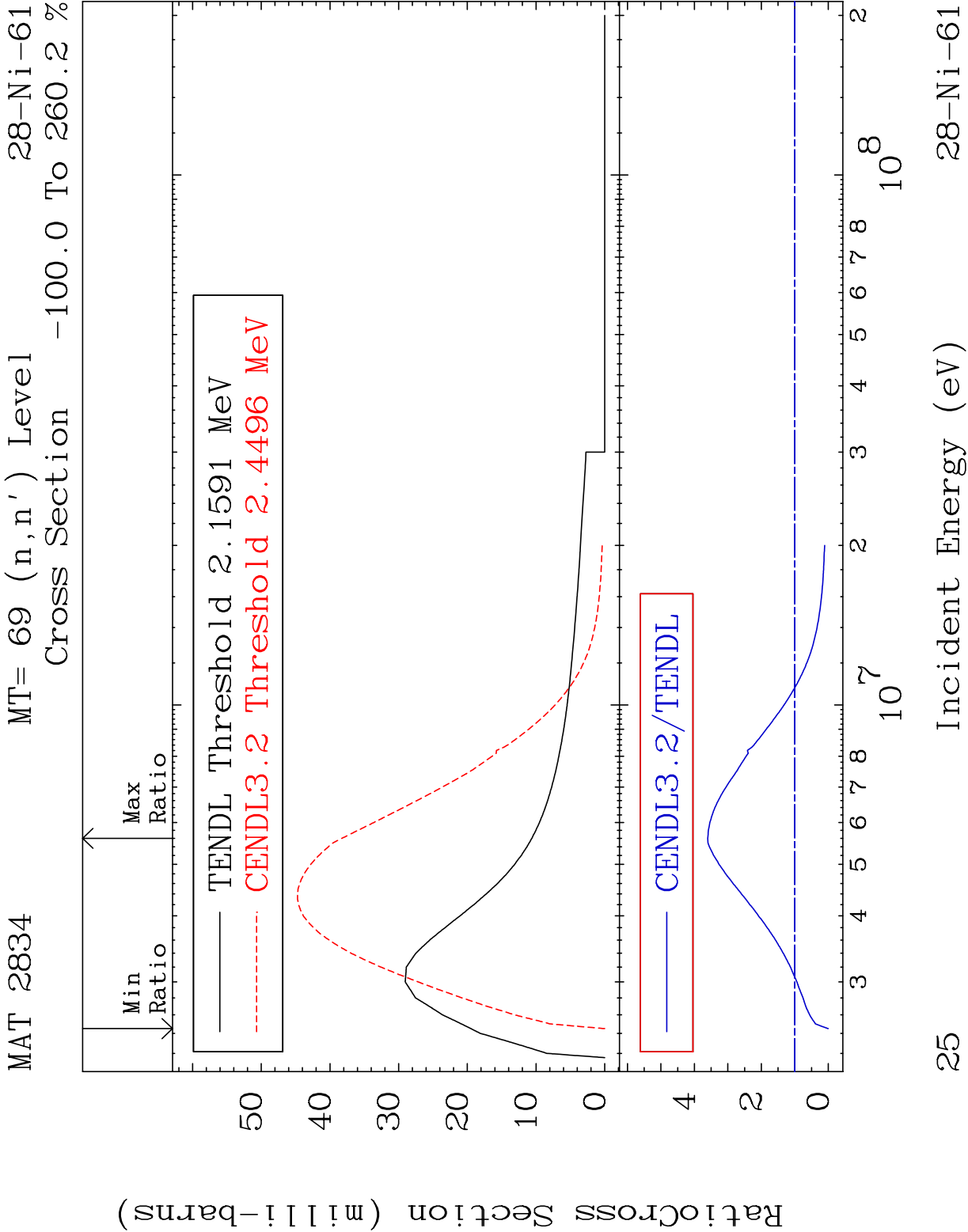
MT= 68 (n,n') Level

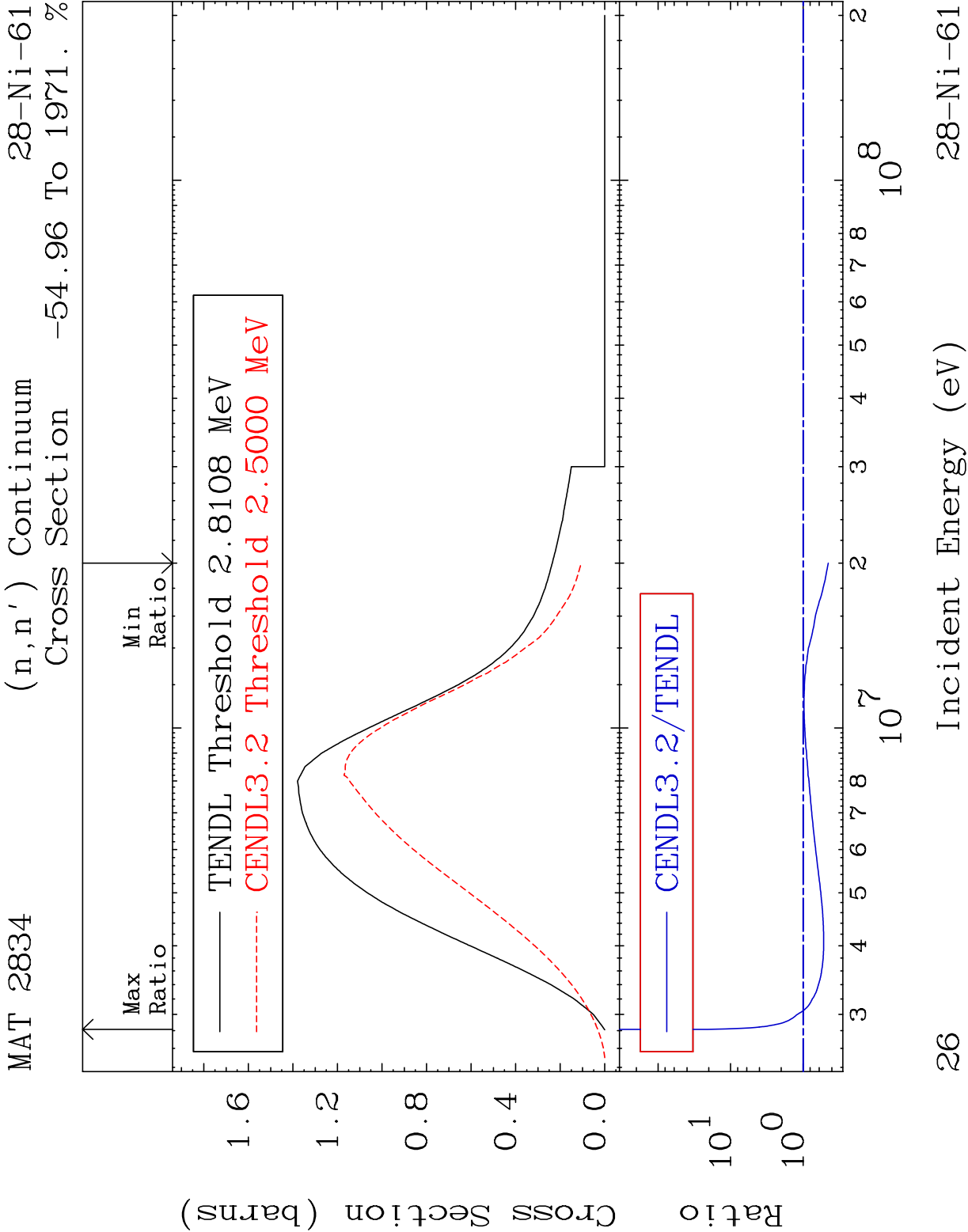
28-Ni-61

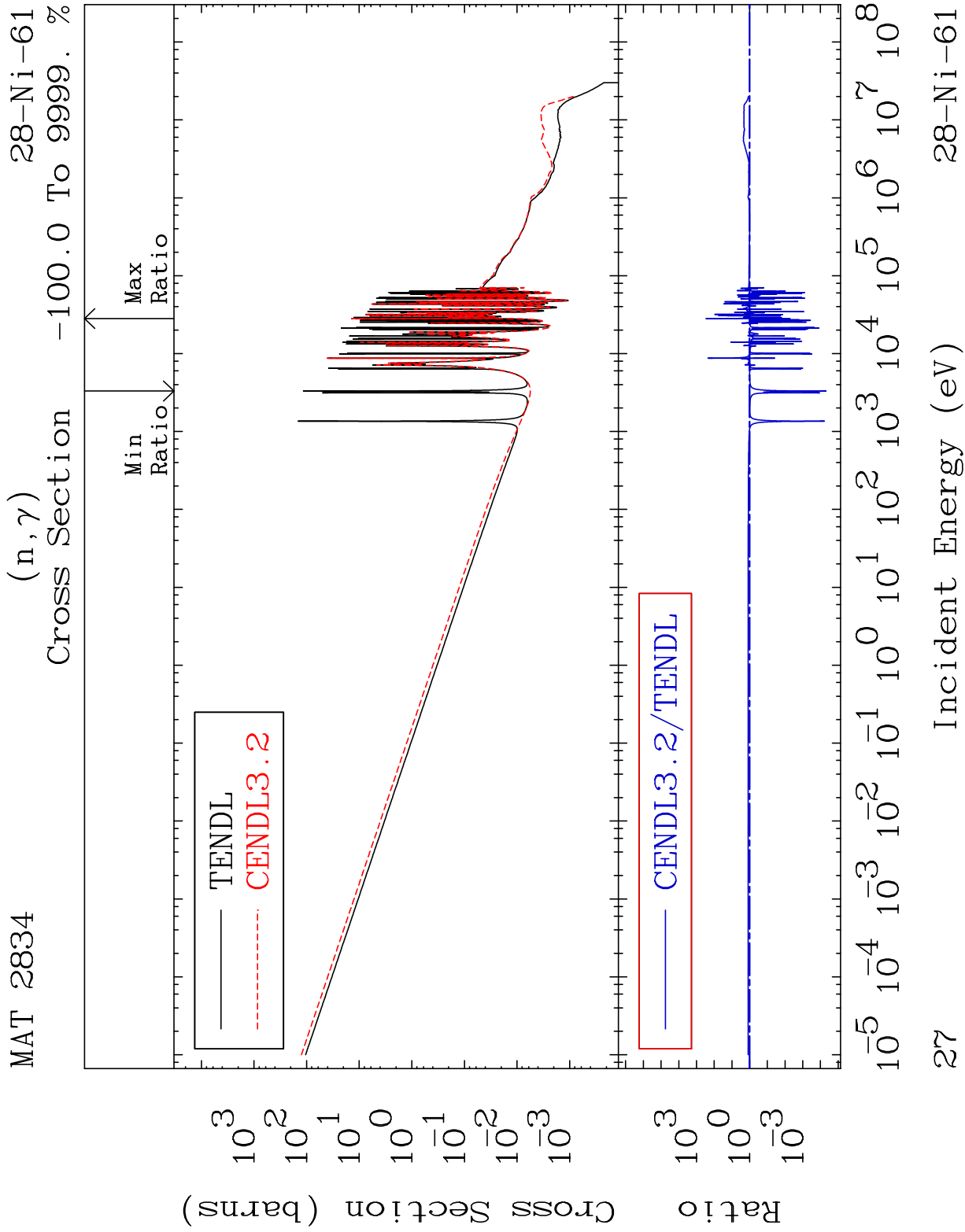
Cross Section

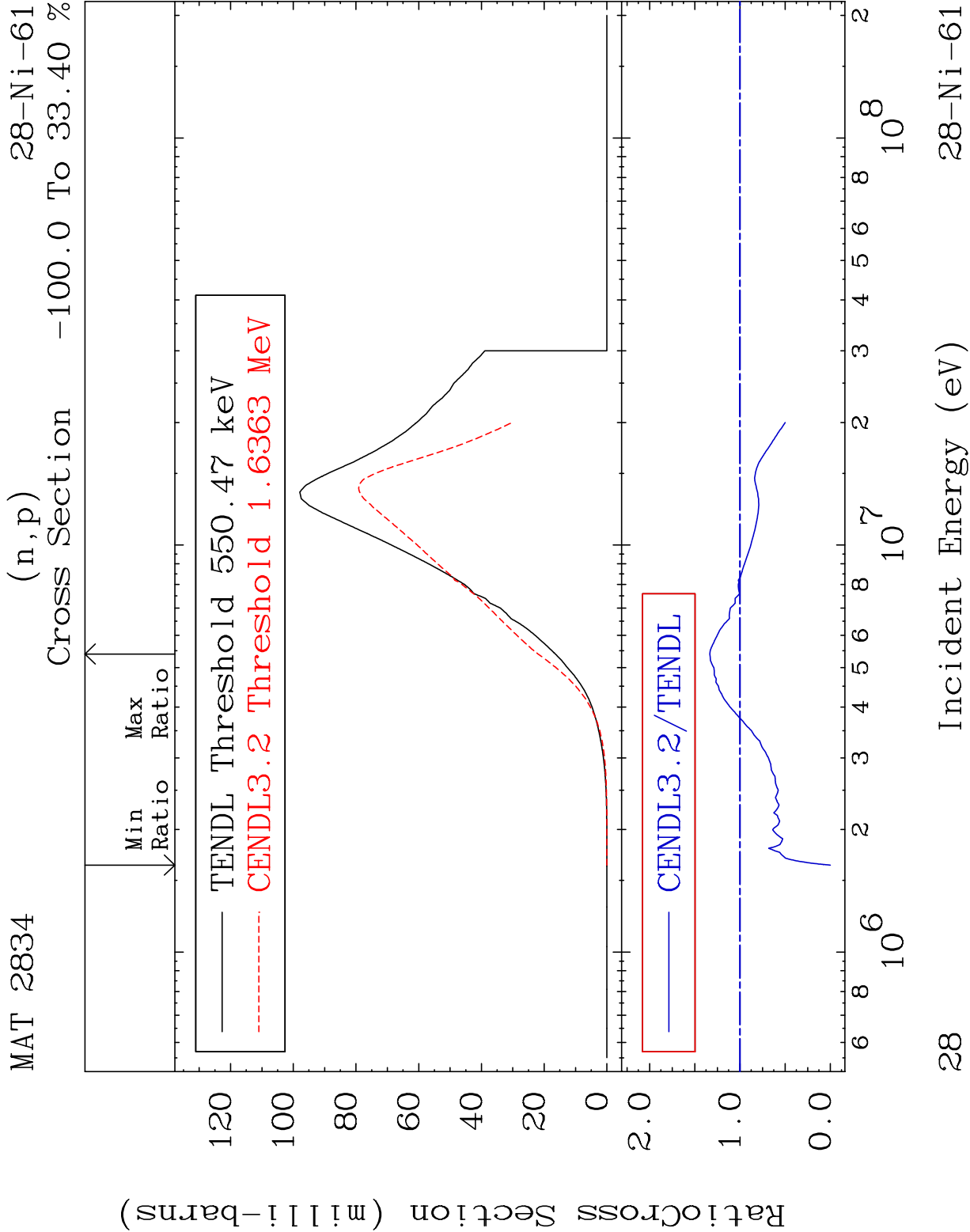
-100.0 To 9999. %

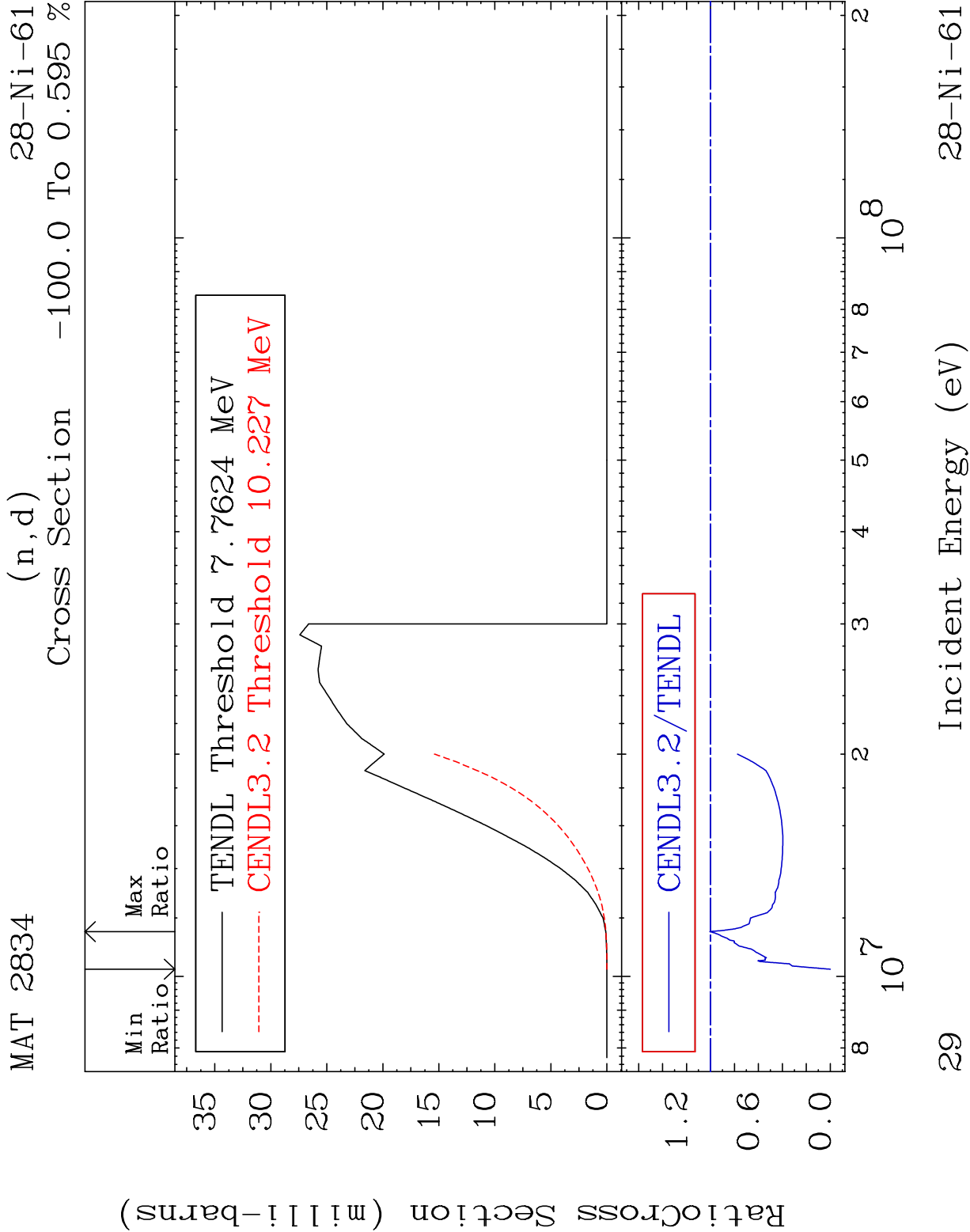


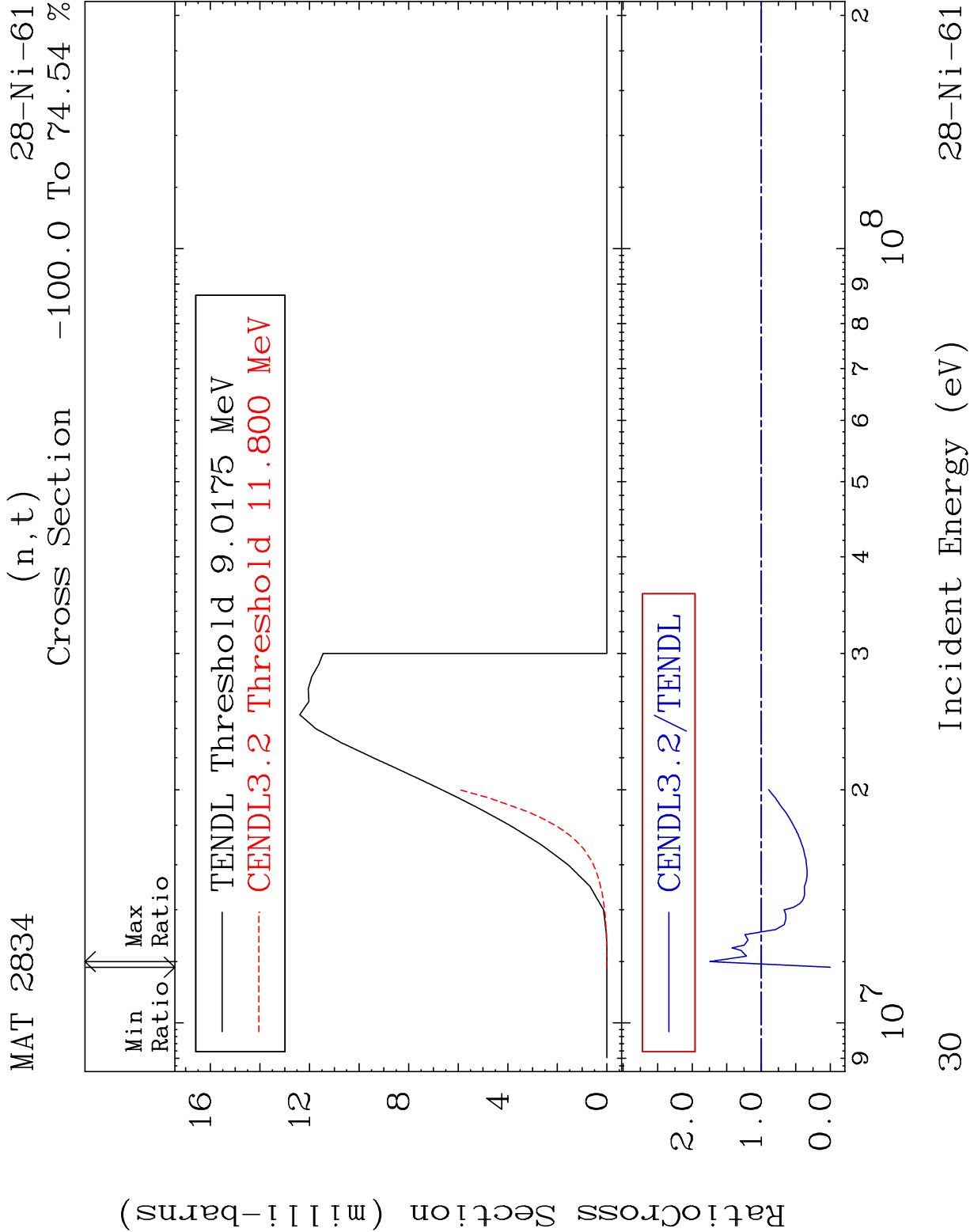


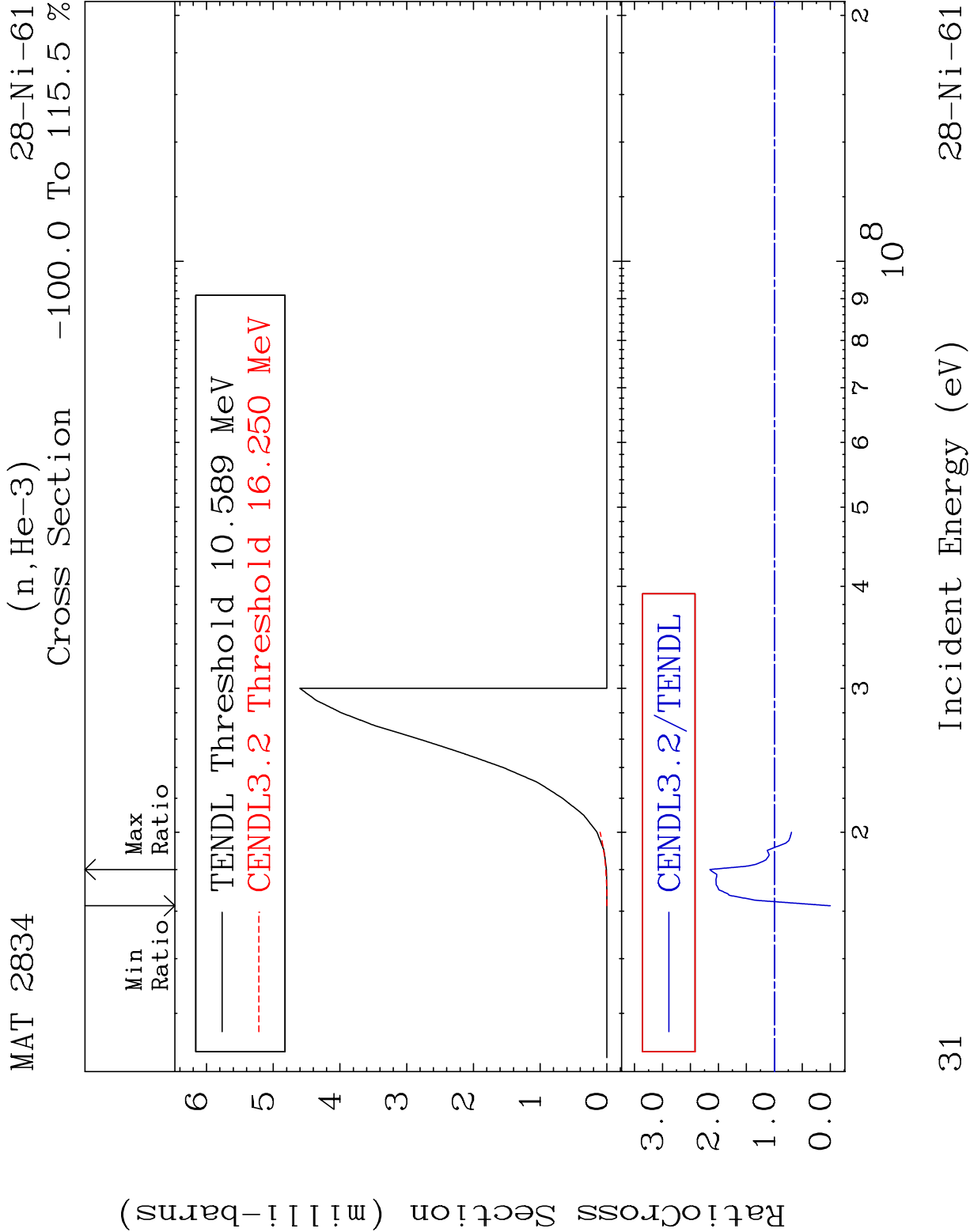












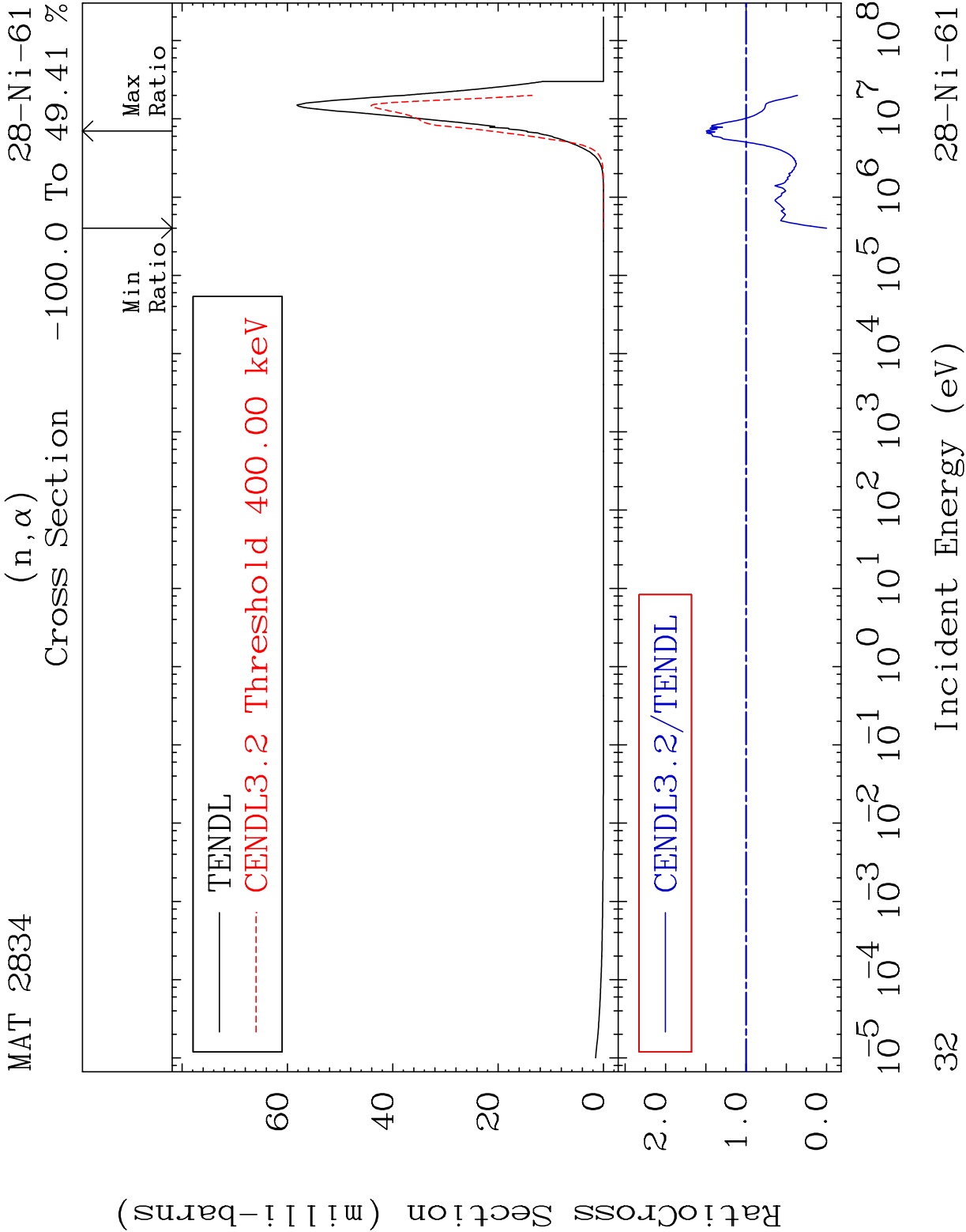
RatioCross Section (milli-barns)

6
5
4
3
2
1
0

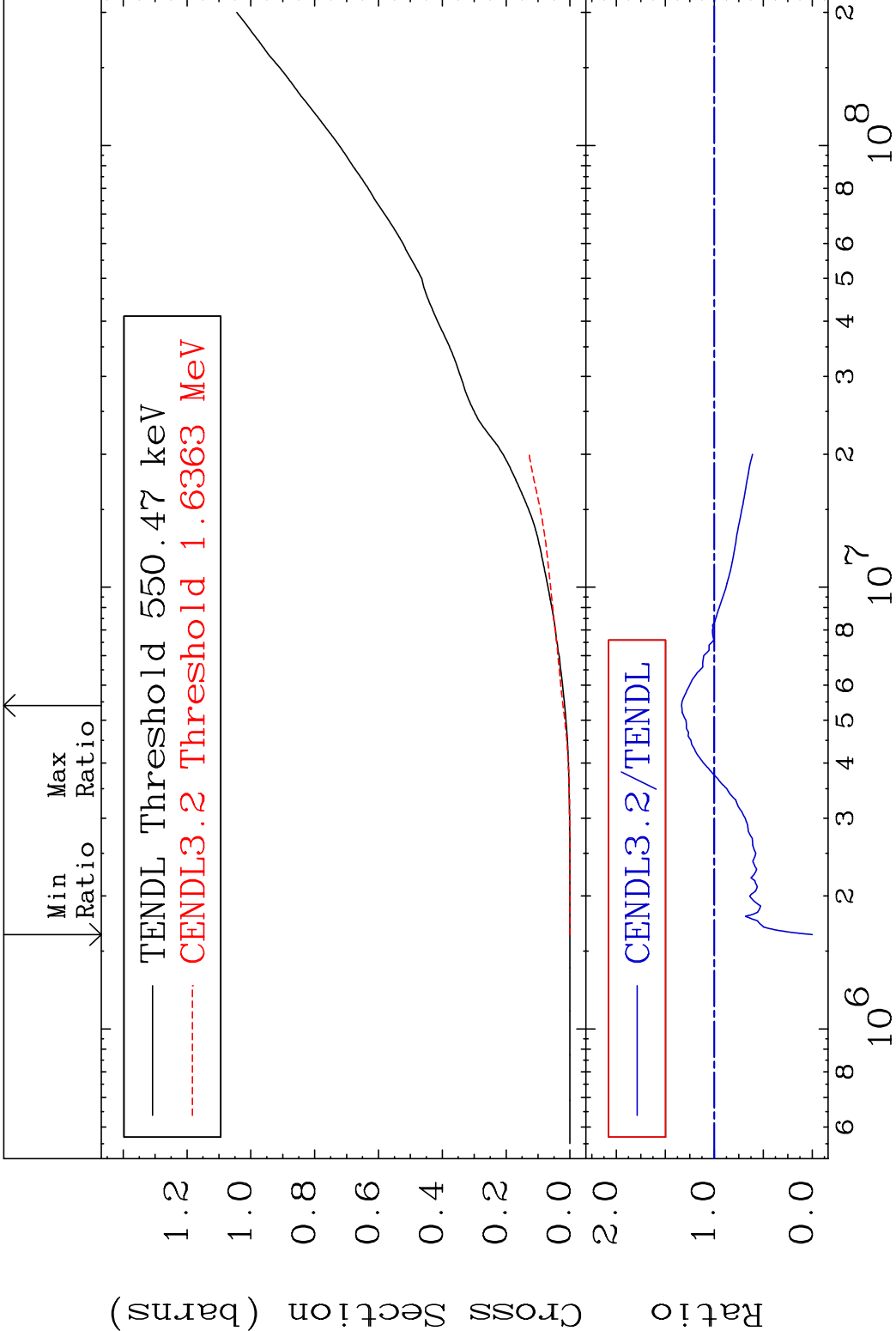
3.0
2.0
1.0
0.0

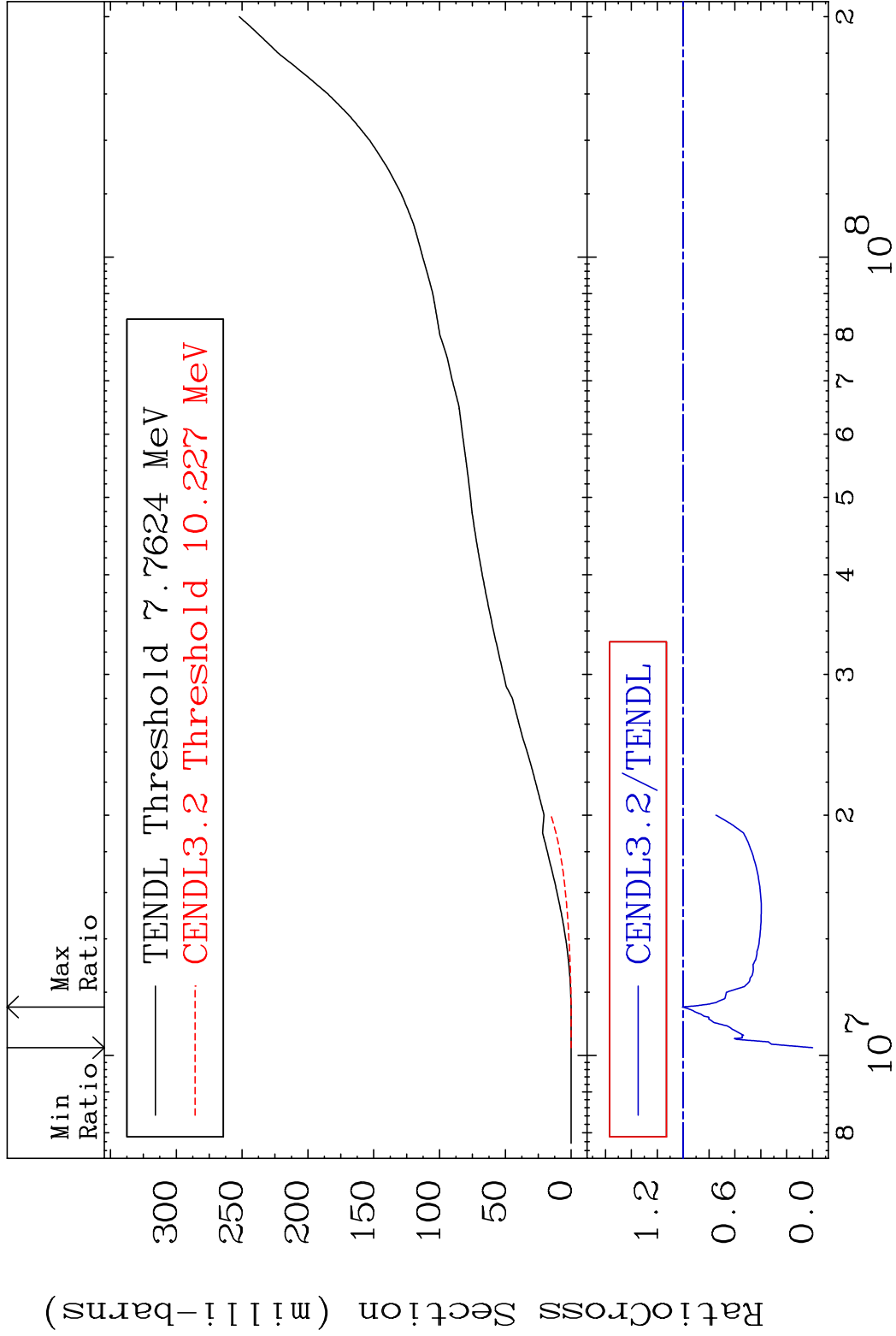
10⁸

31



Cross Section -100.0 To 33.40 %



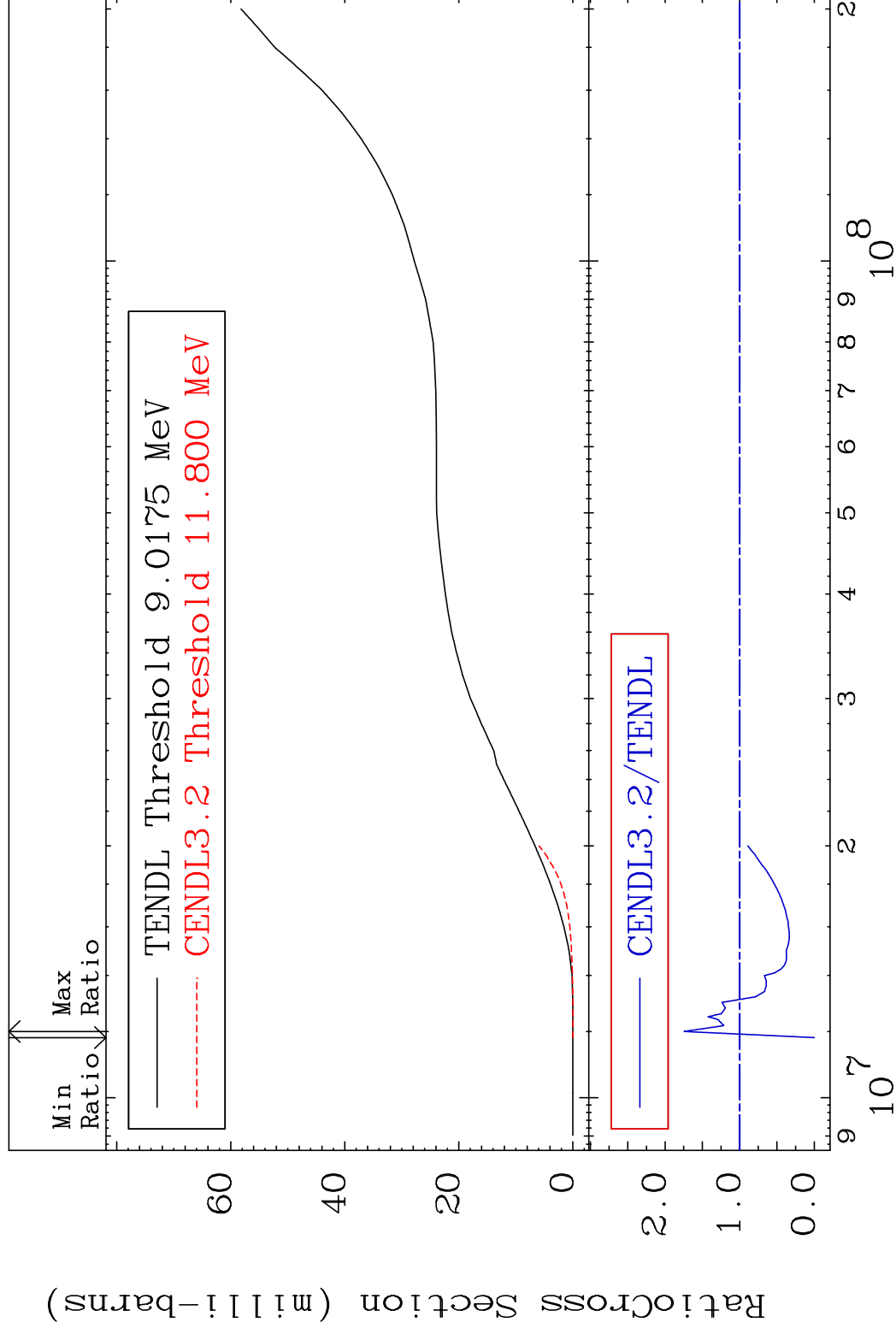


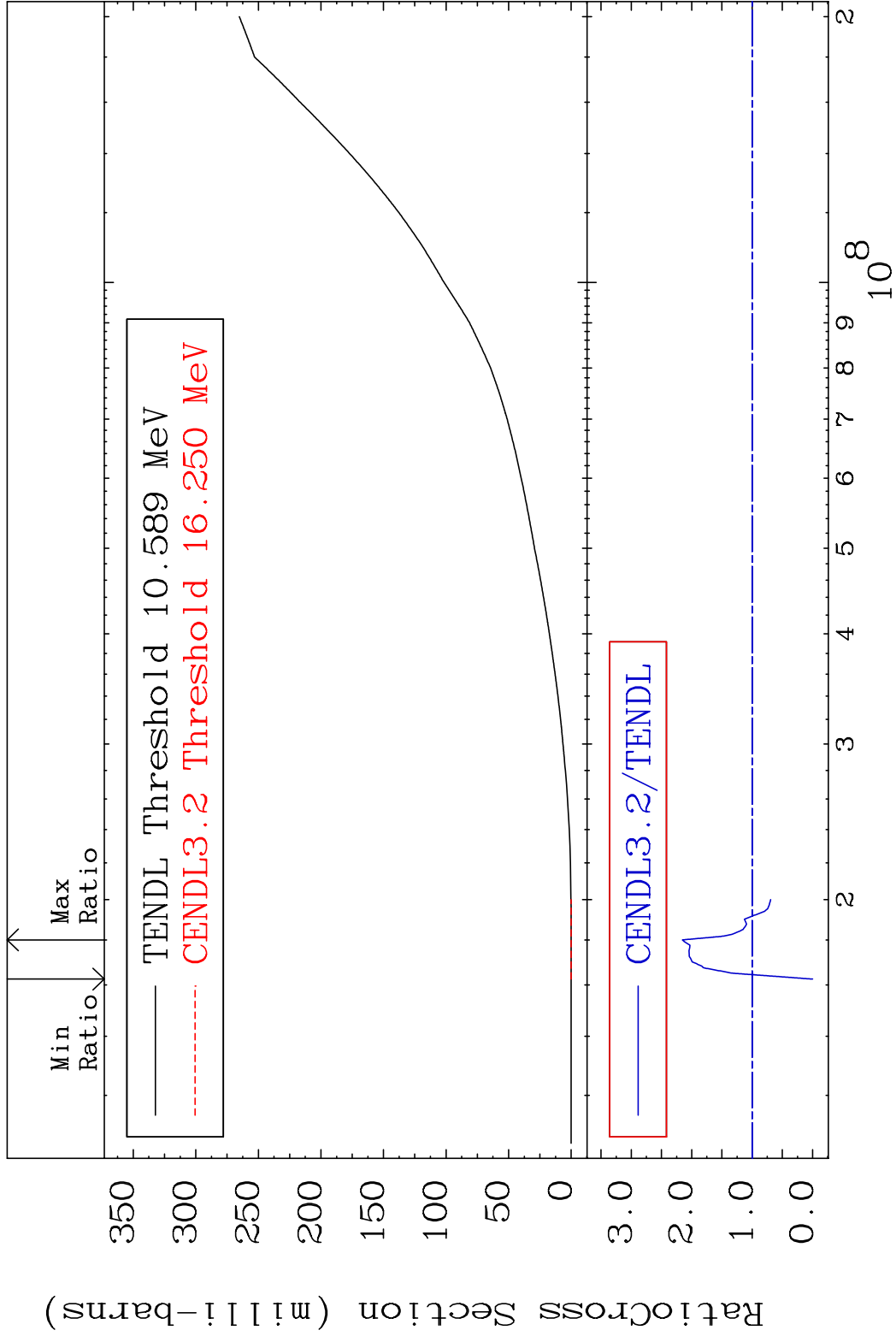
MAT 2834

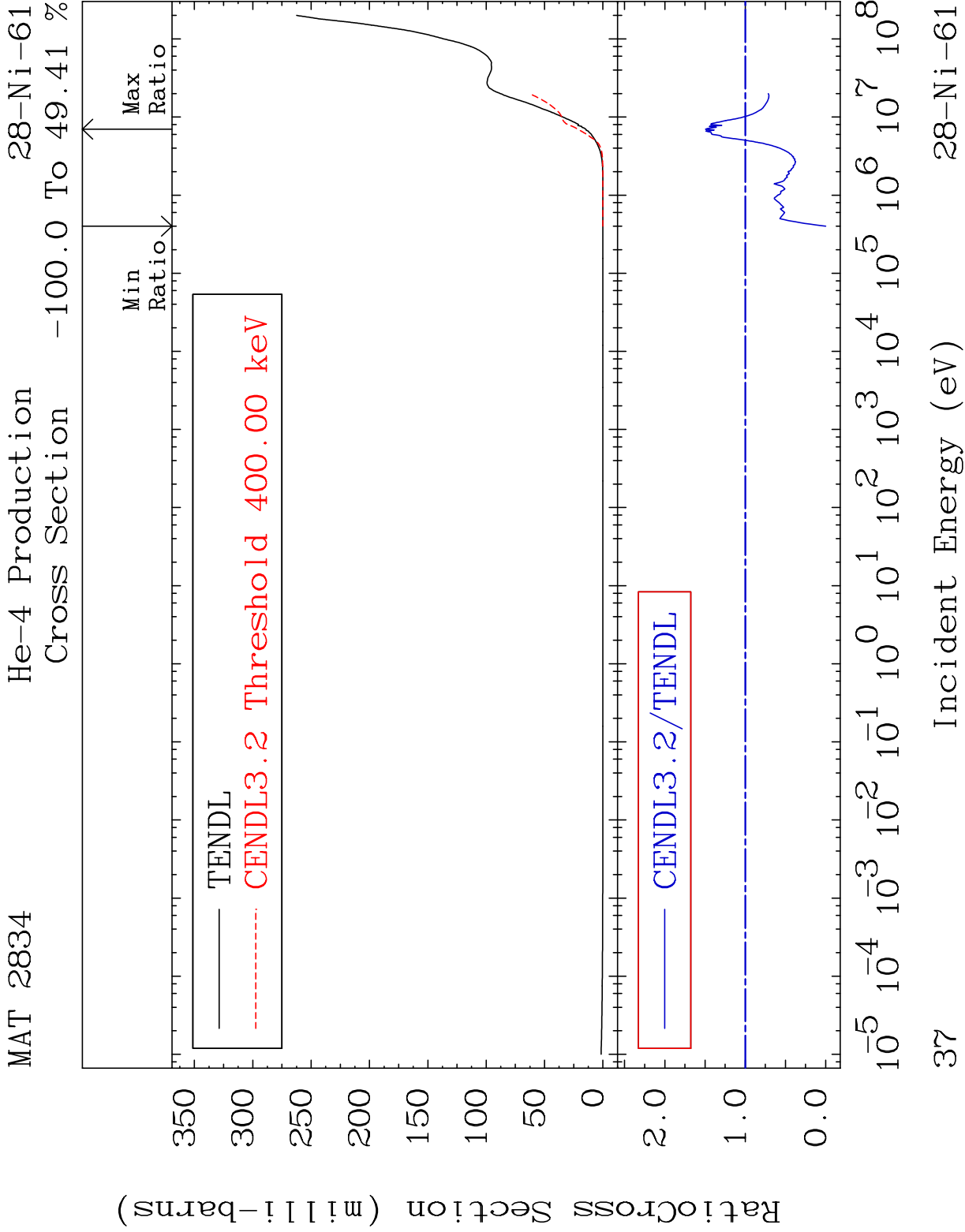
Tritium Production

 $^{28}\text{Ni-61}$

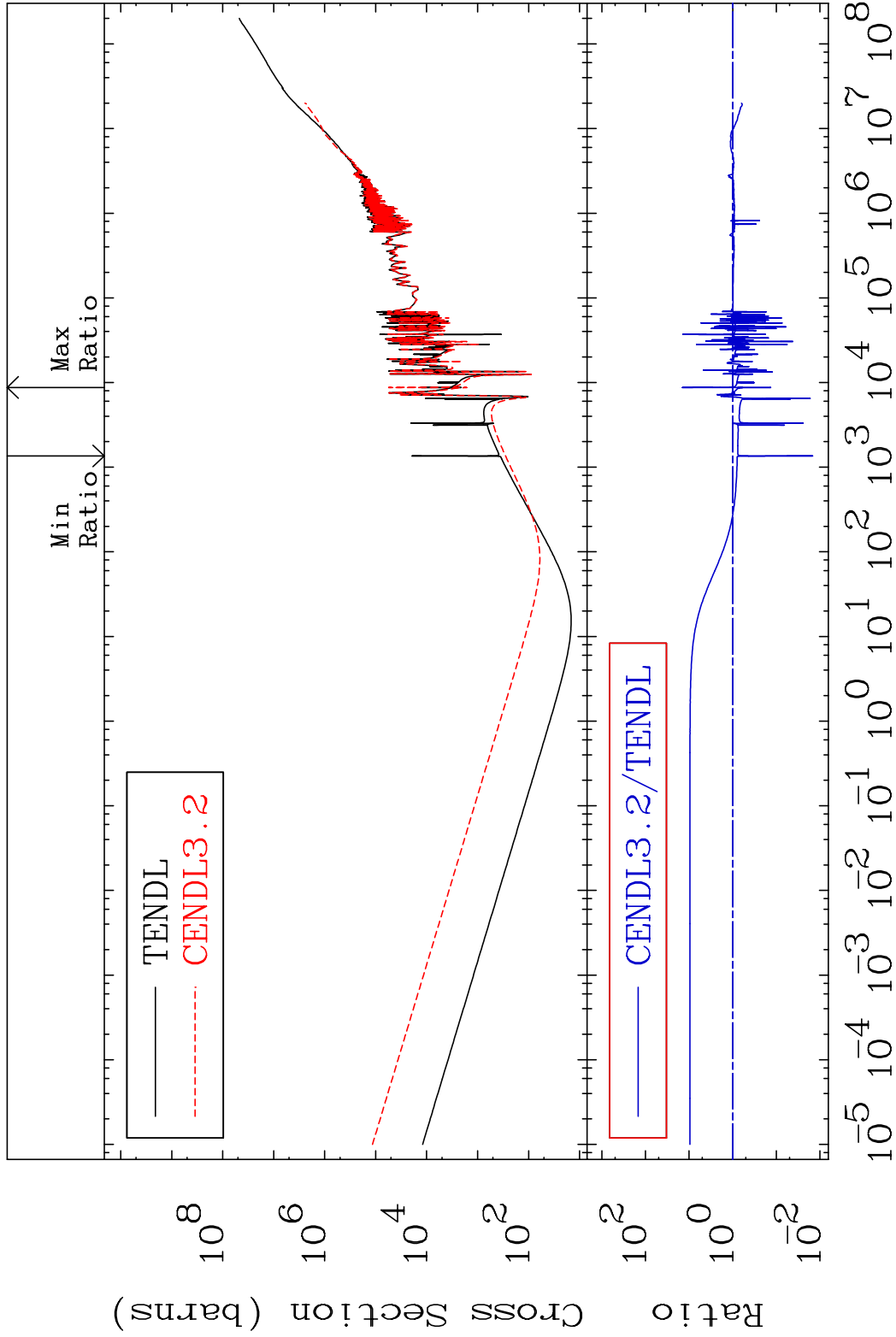
Cross Section -100.0 To 74.54 %



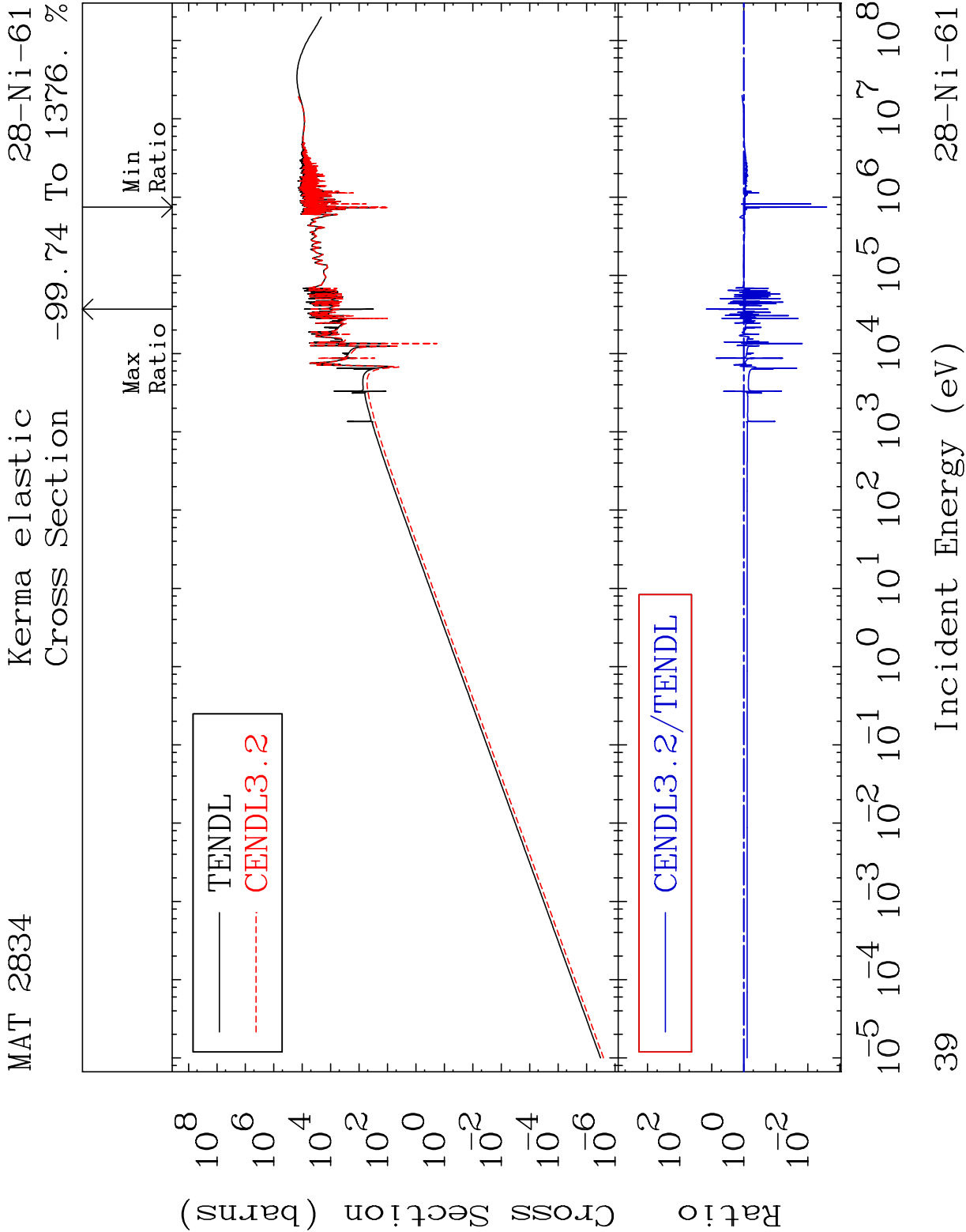




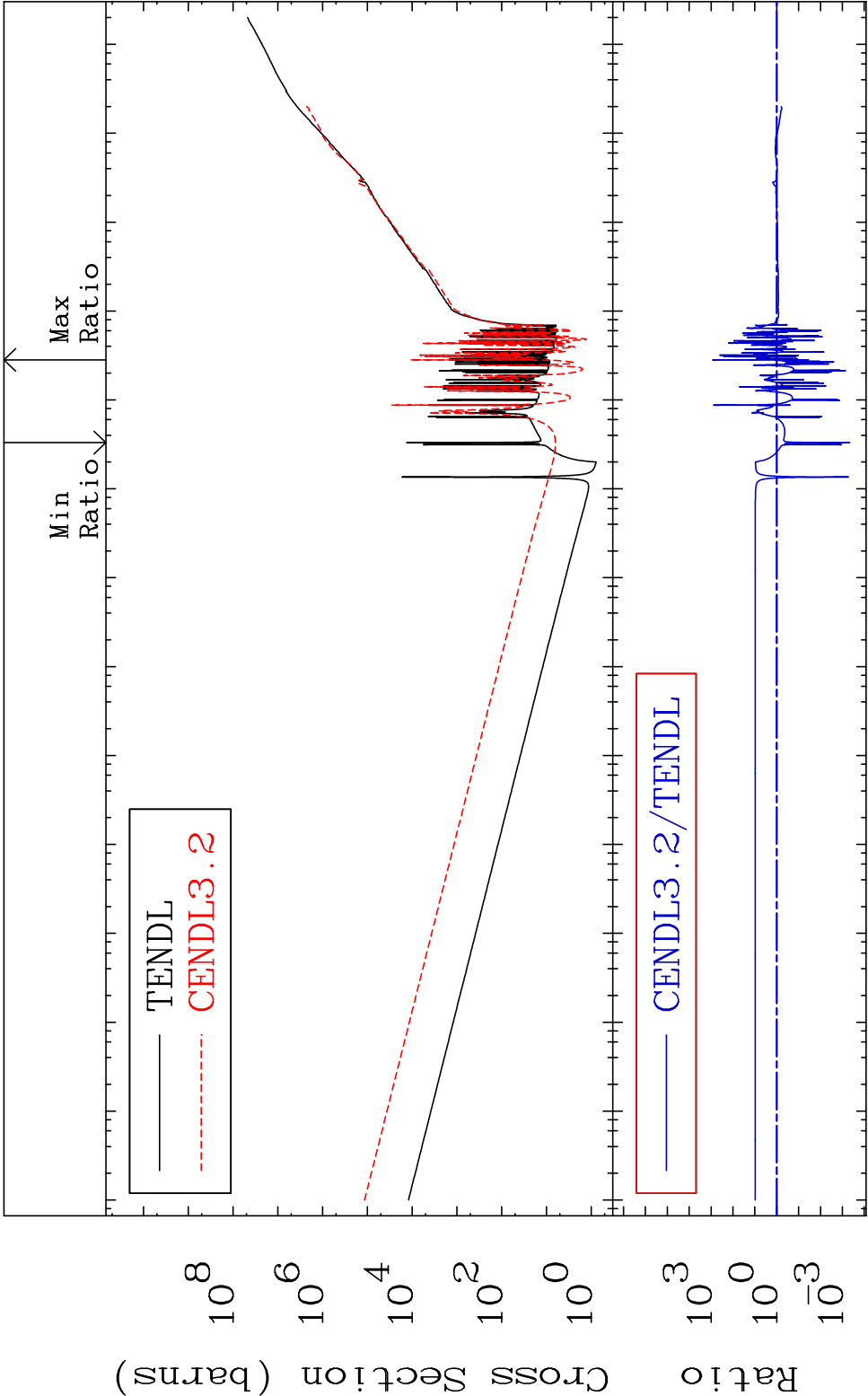
MAT 2834 Kerma total (eV-barns) ²⁸Ni-61
 Cross Section -98.52 To 1328. %



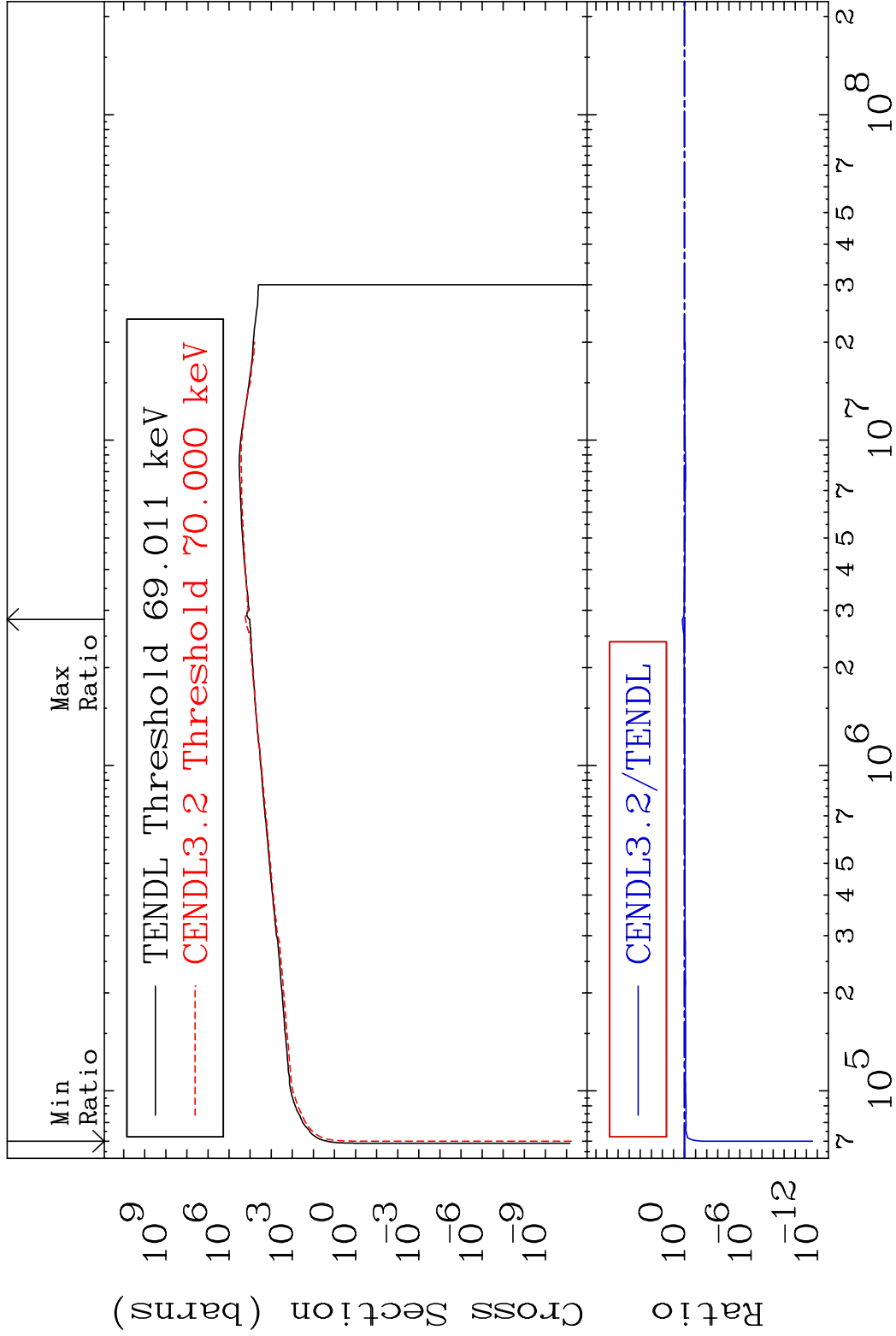
38 Incident Energy (eV) ²⁸Ni-61



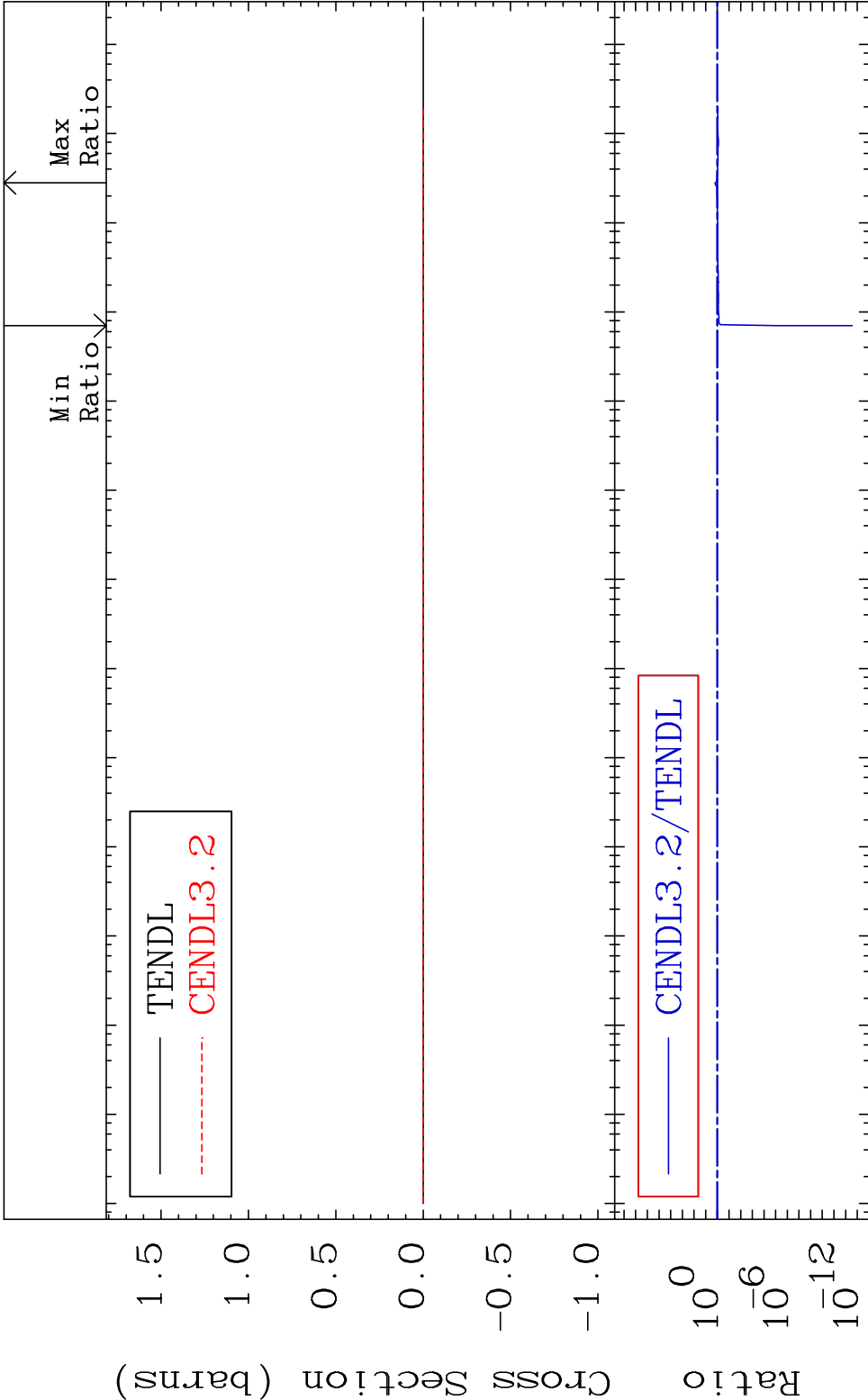
MAT 2834 Kerma non-elastic (all but mt2) ²⁸Ni-61
 Cross Section -99.95 To 9999. %



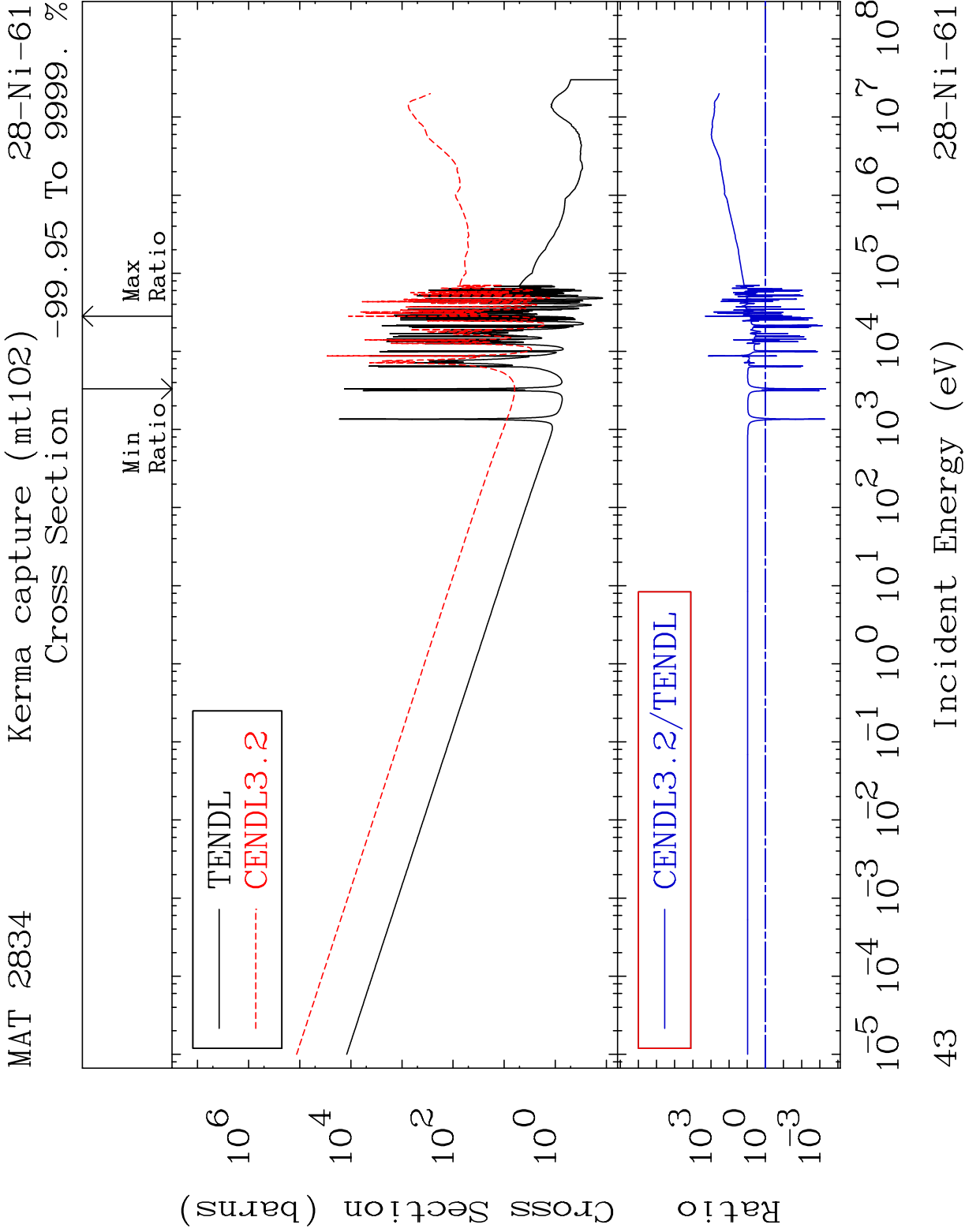
40 Incident Energy (eV) ²⁸Ni-61

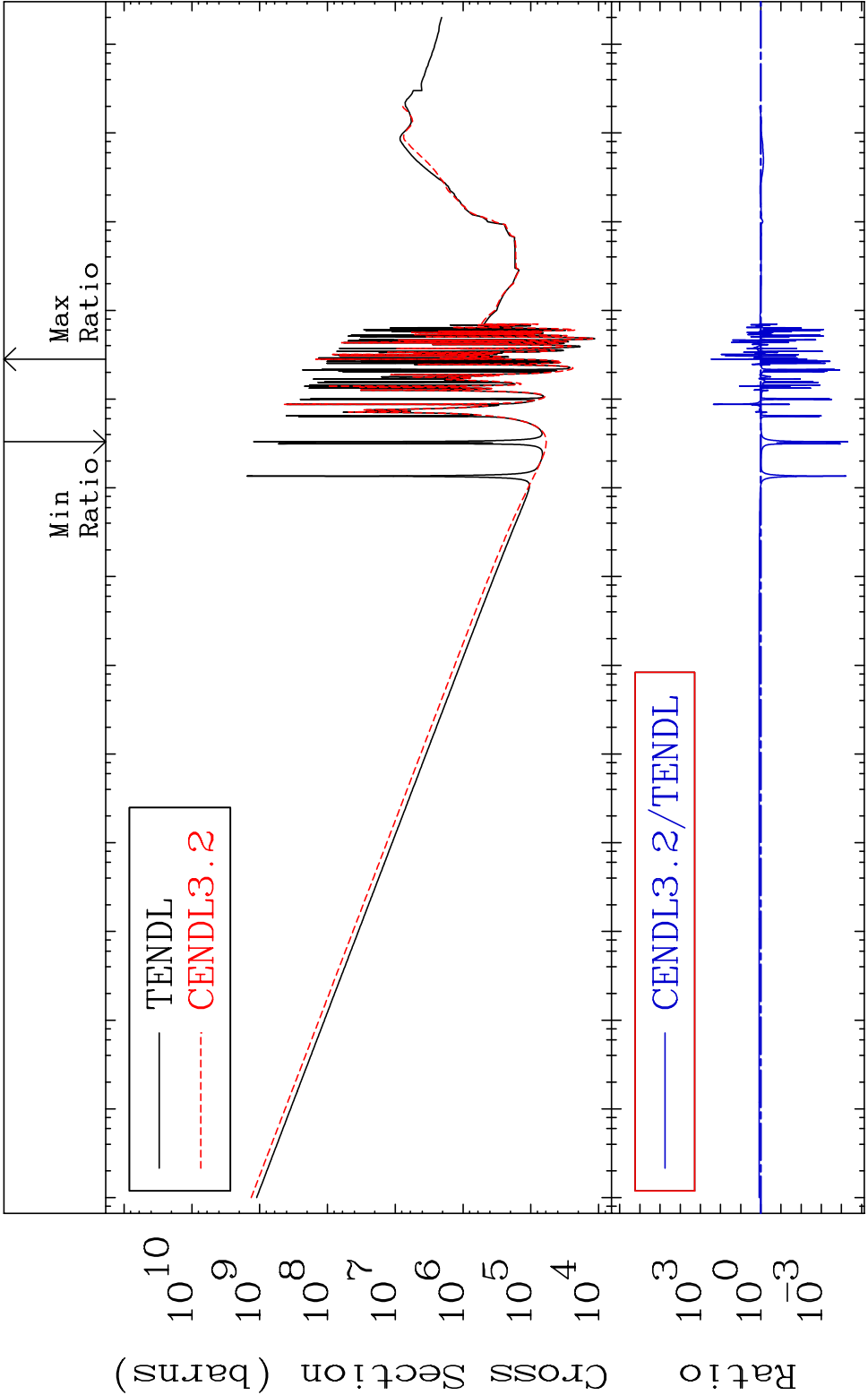


MAT 2834 Kerma fission (mt18 or mt19-20-21-38) 28-Ni-61
Cross Section -100.0 To 57.51 %

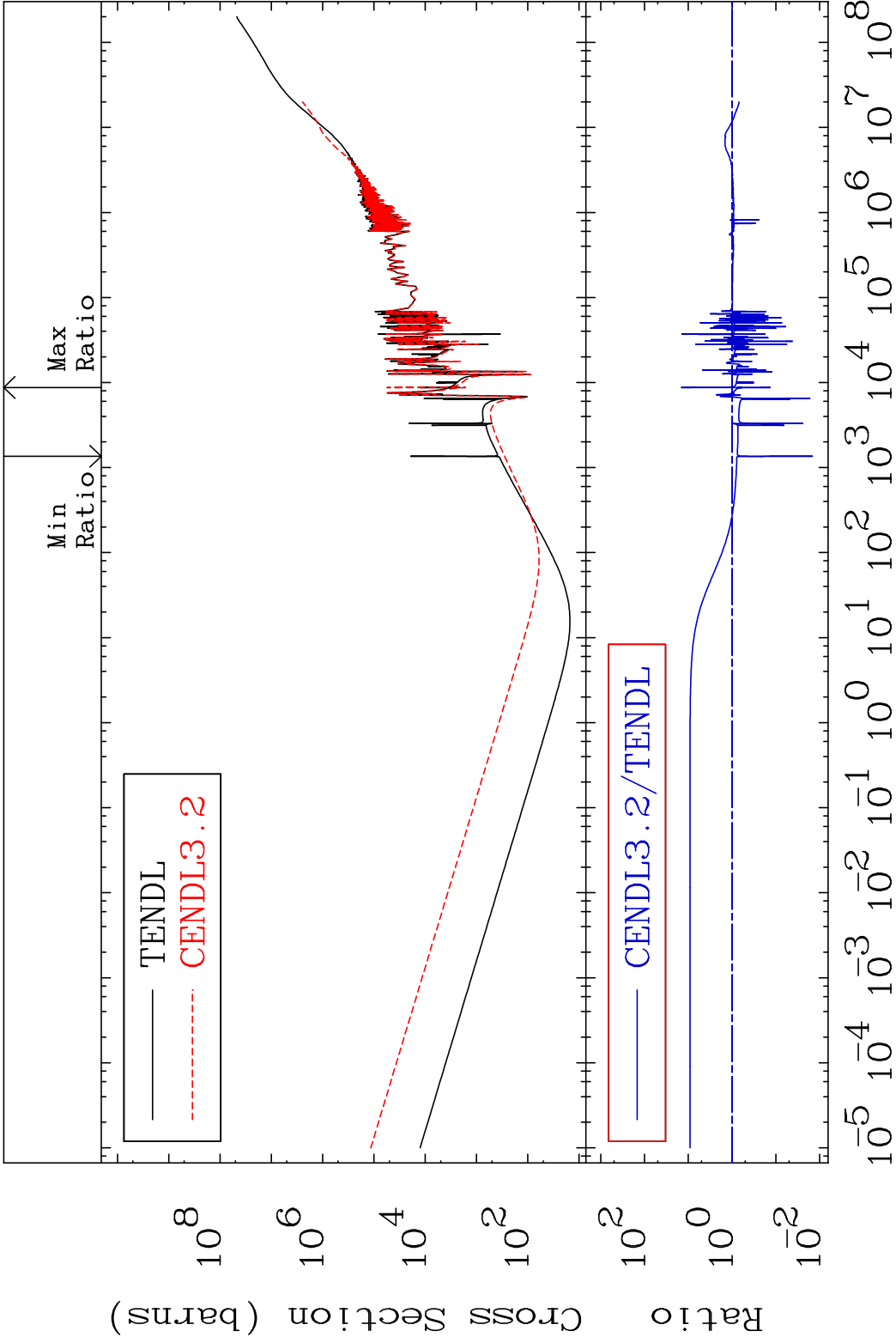


42 Incident Energy (eV) 28-Ni-61



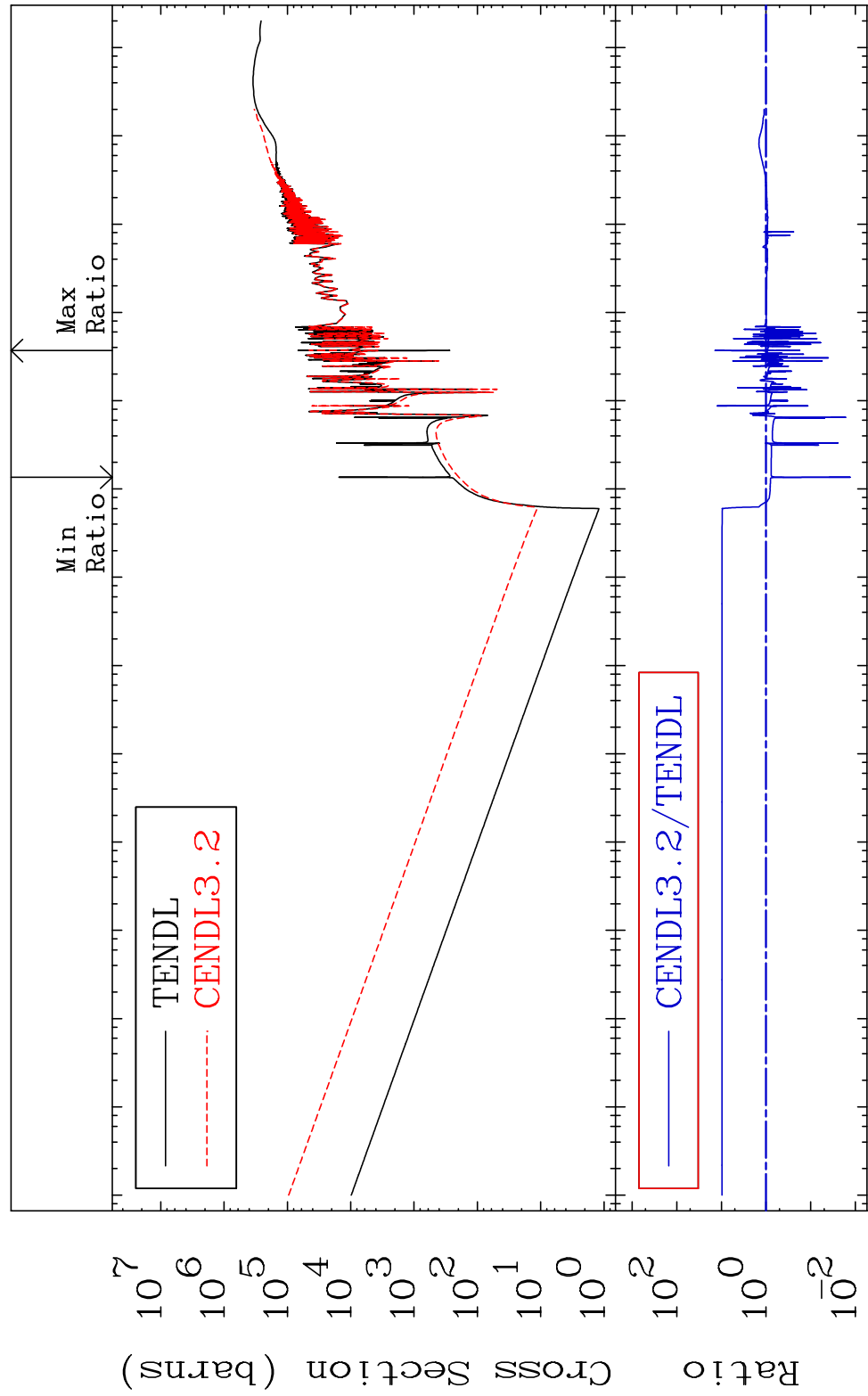


MAT 2834 Total kinematic kerma (high limit) 28-Ni-61
Cross Section -98.52 To 1328. %



45 Incident Energy (eV) 28-Ni-61

MAT 2834 Dpa total (eV-barns) 28-Ni-61
 Cross Section -98.72 To 1304. %



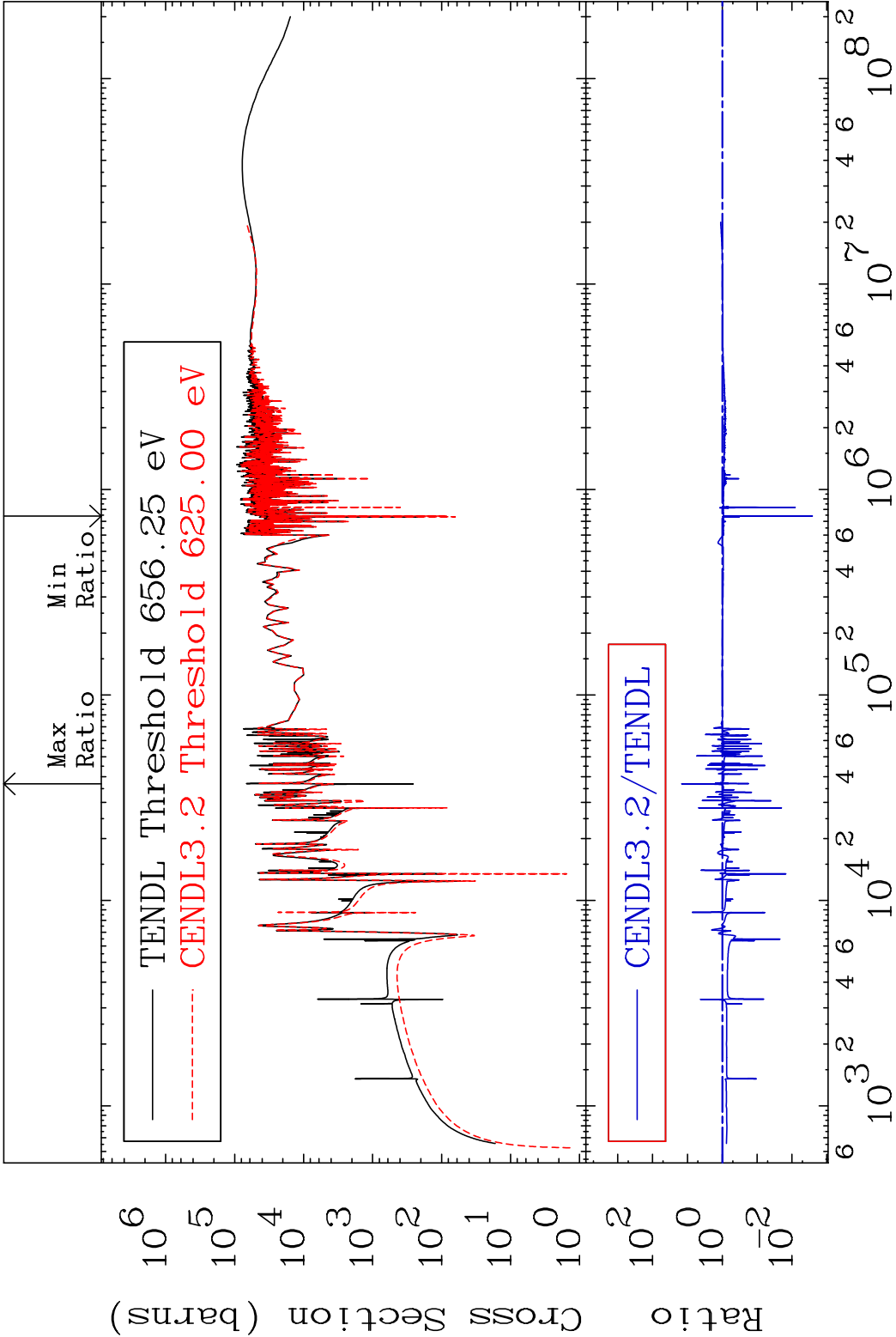
MAT 2834

Dpa elastic (mt2)

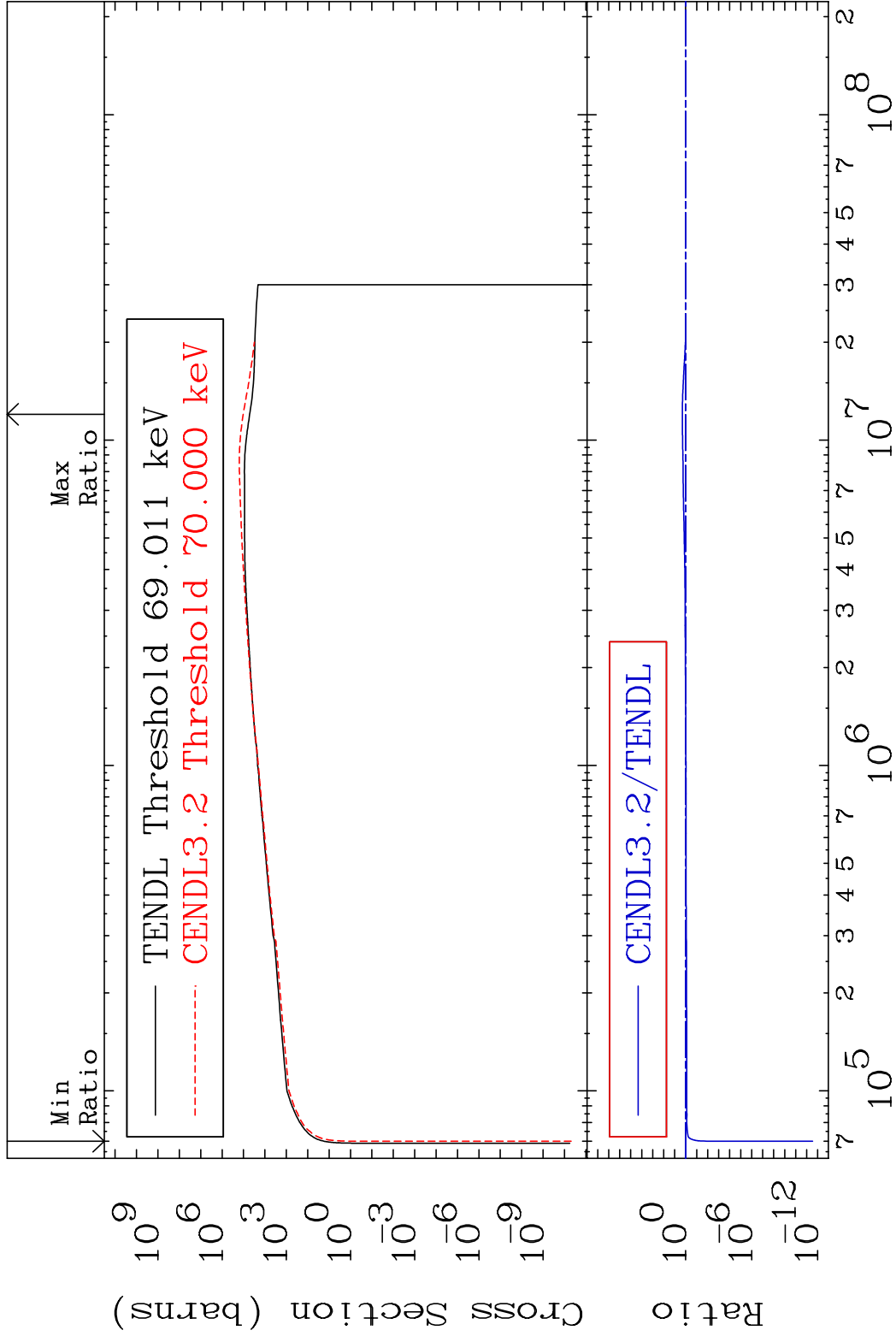
28-Ni-61

Cross Section

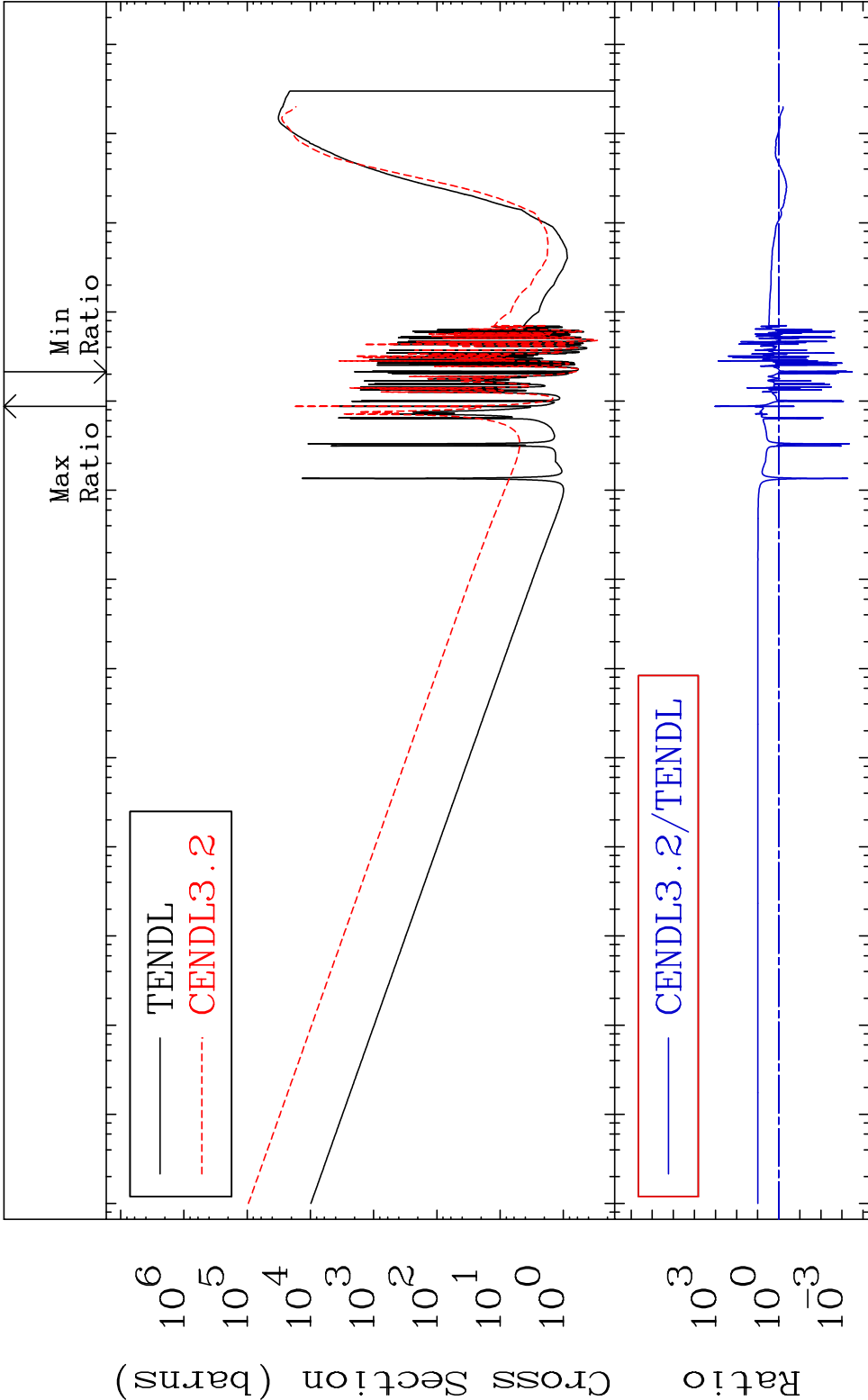
-99.74 To 1376. %



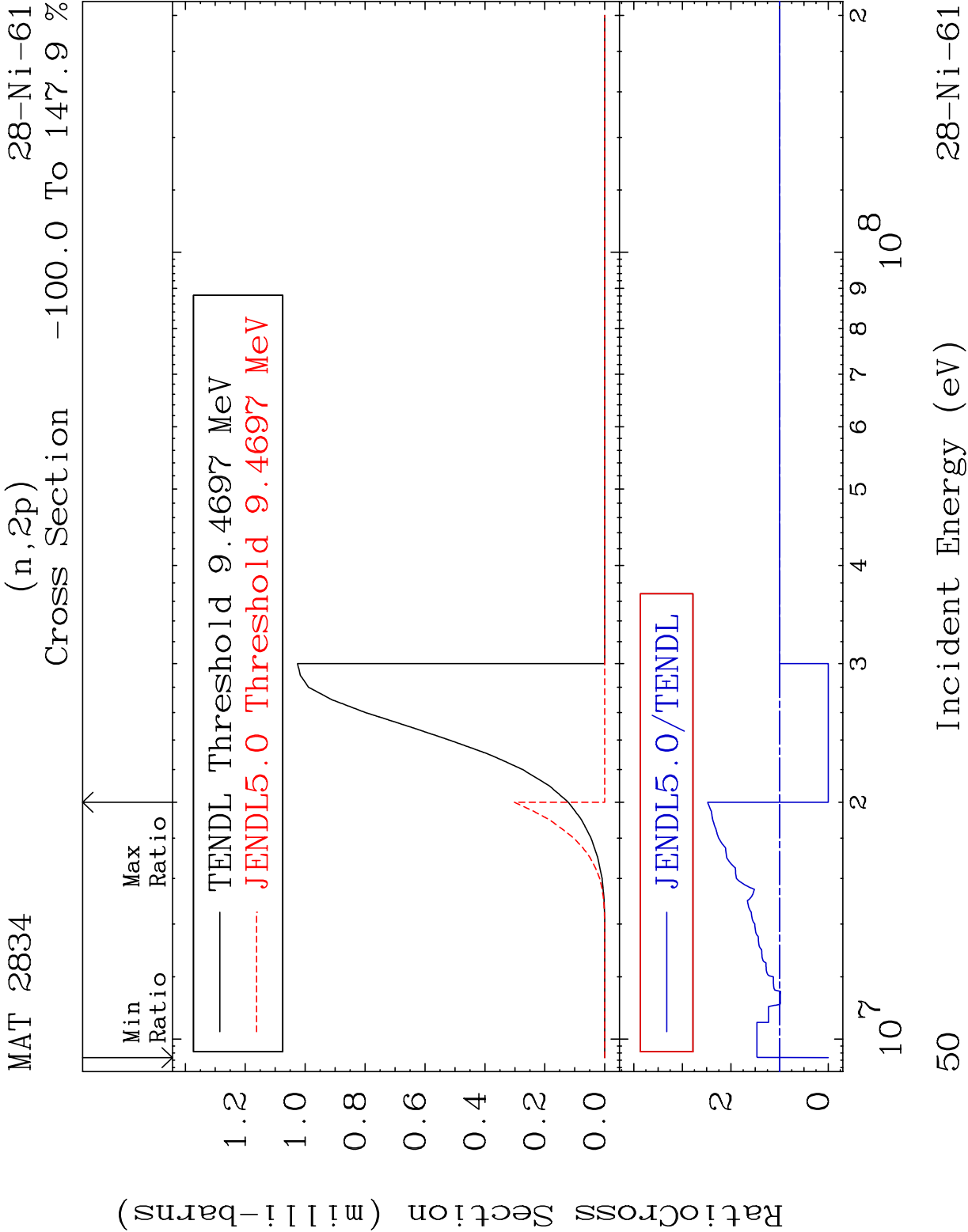
MAT 2834 Dpa inelastic (mt51-91) 28-Ni-61
Cross Section -100.0 To 100.9 %

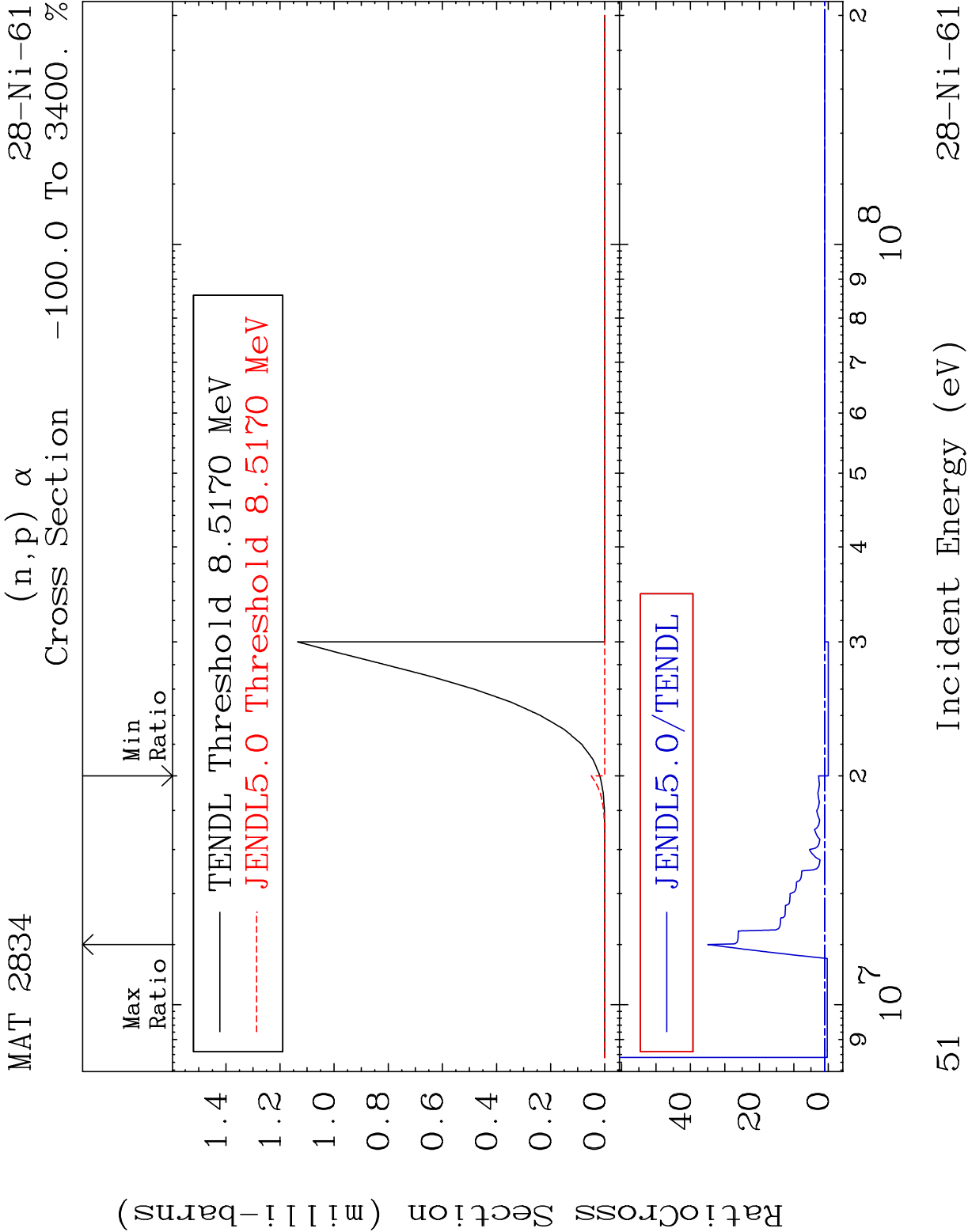


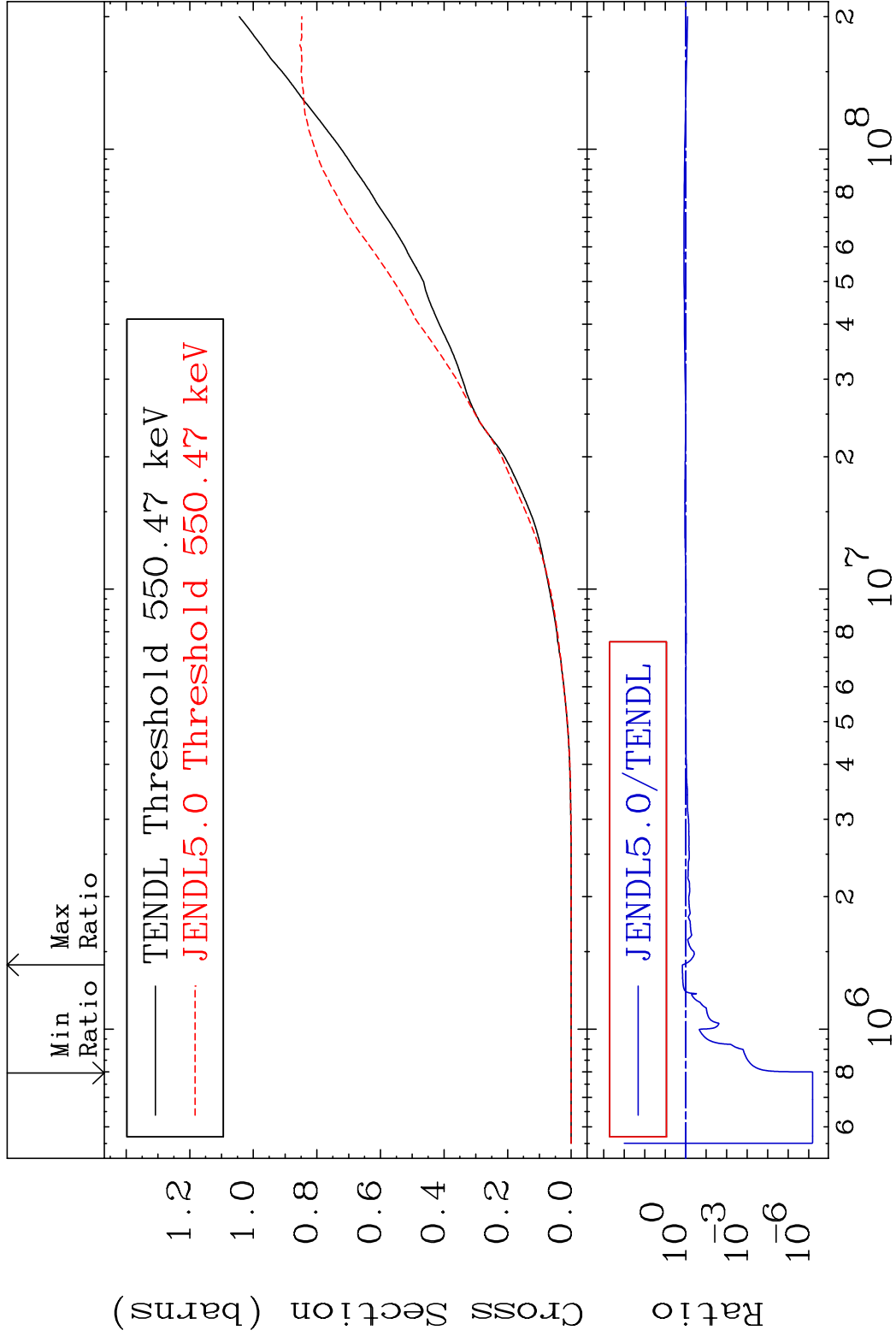
MAT 2834 Dpa disappearance (mt102 -120) 28-Ni-61
Cross Section -99.97 To 9999. %

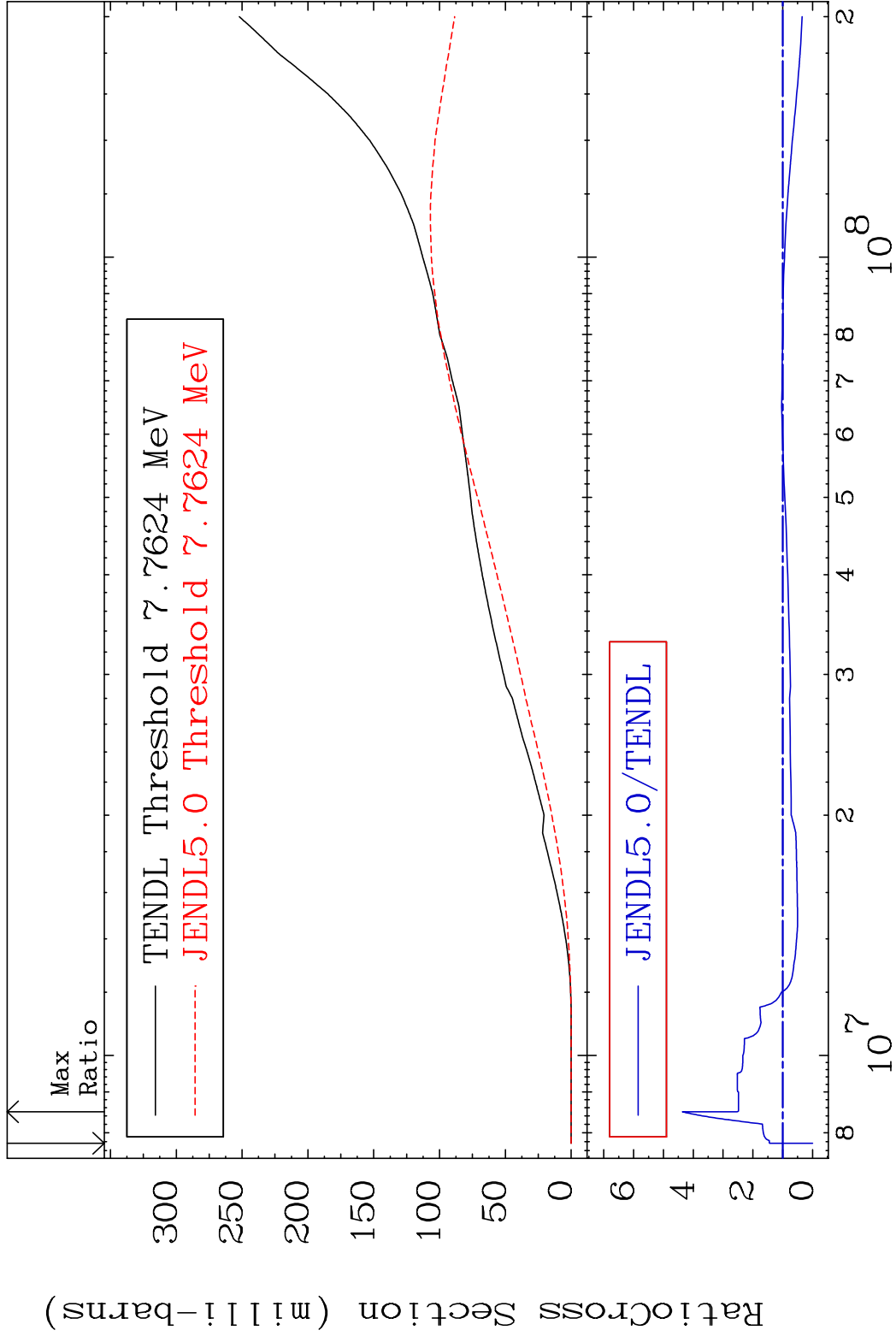


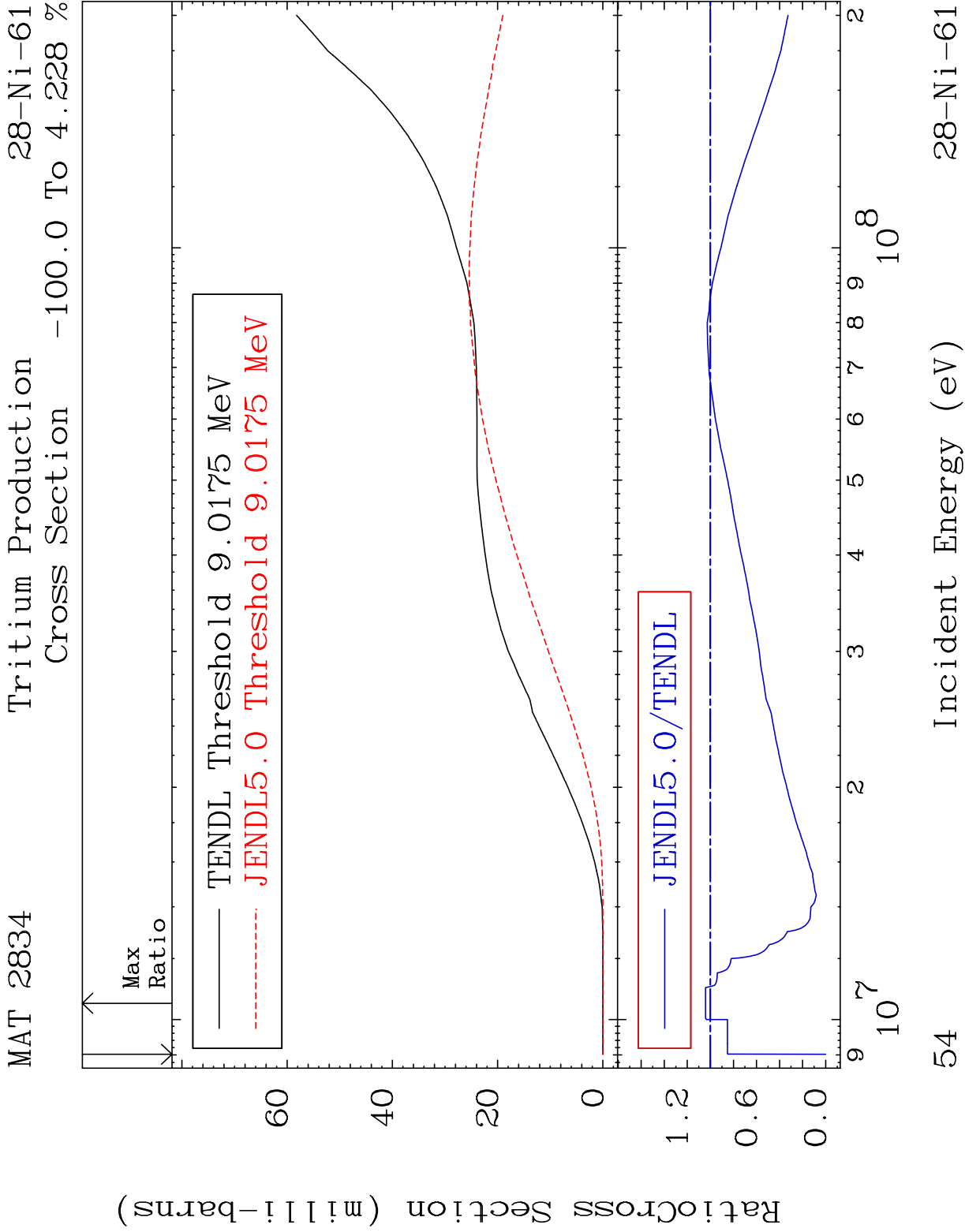
49 Incident Energy (eV) 28-Ni-61

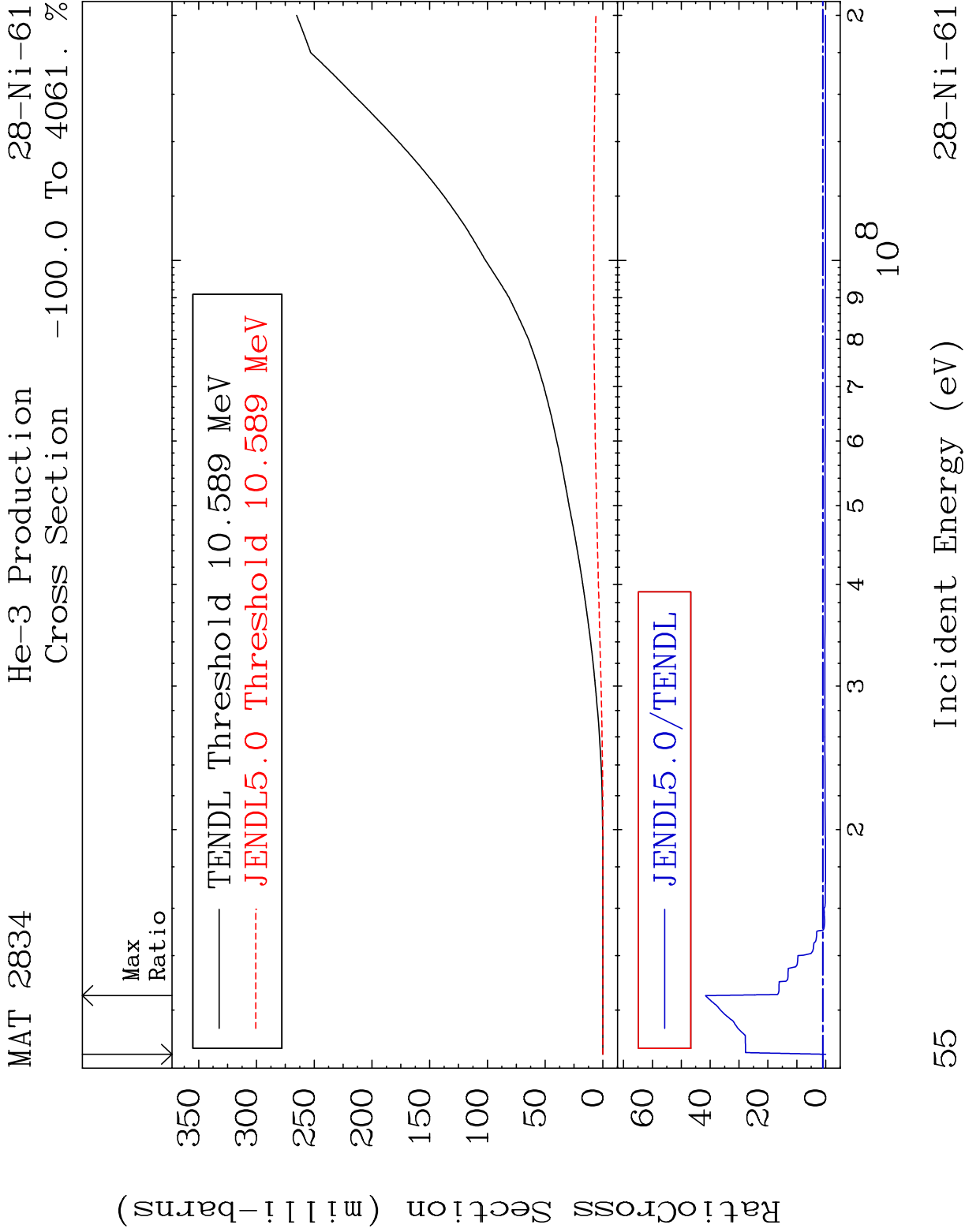


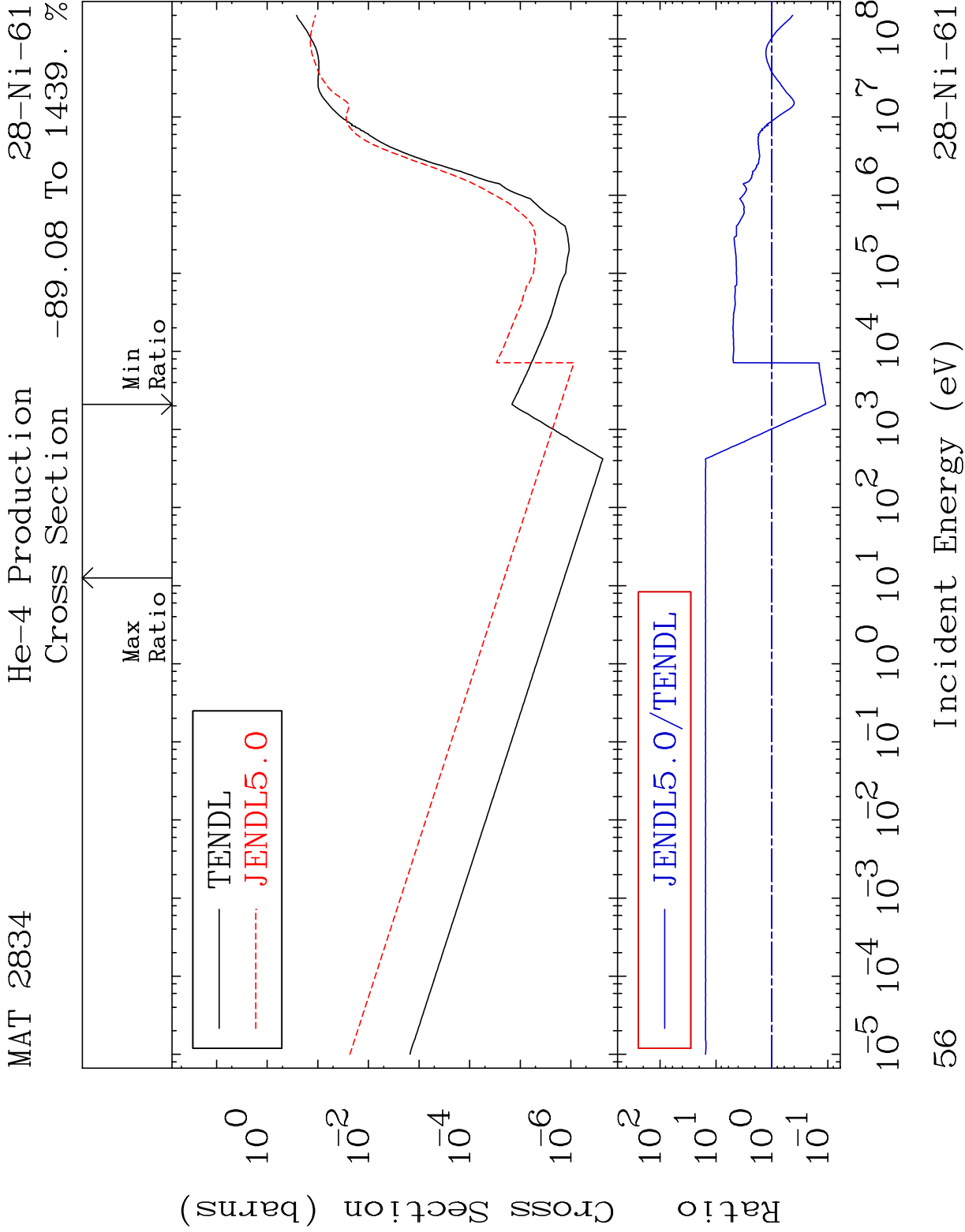


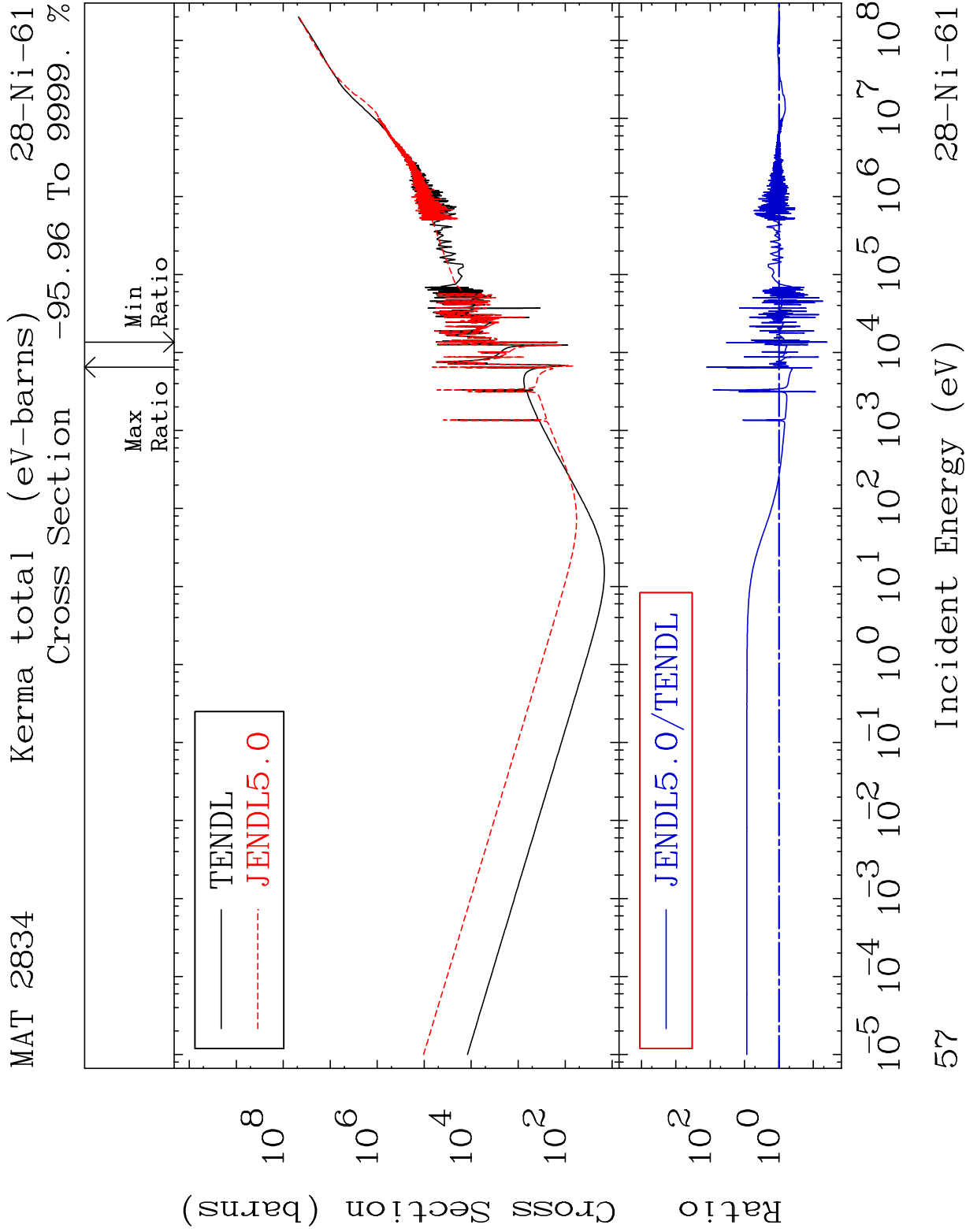




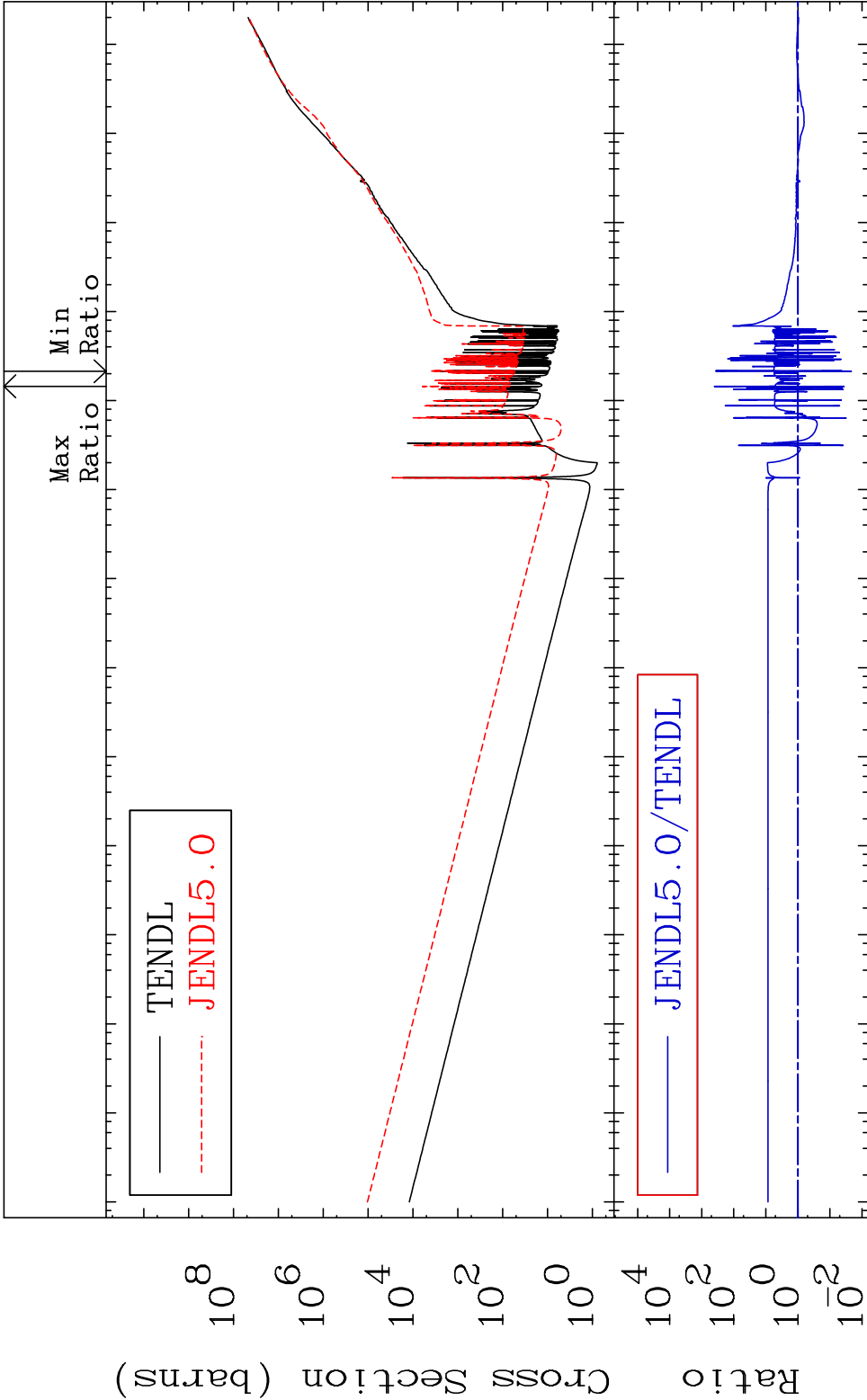




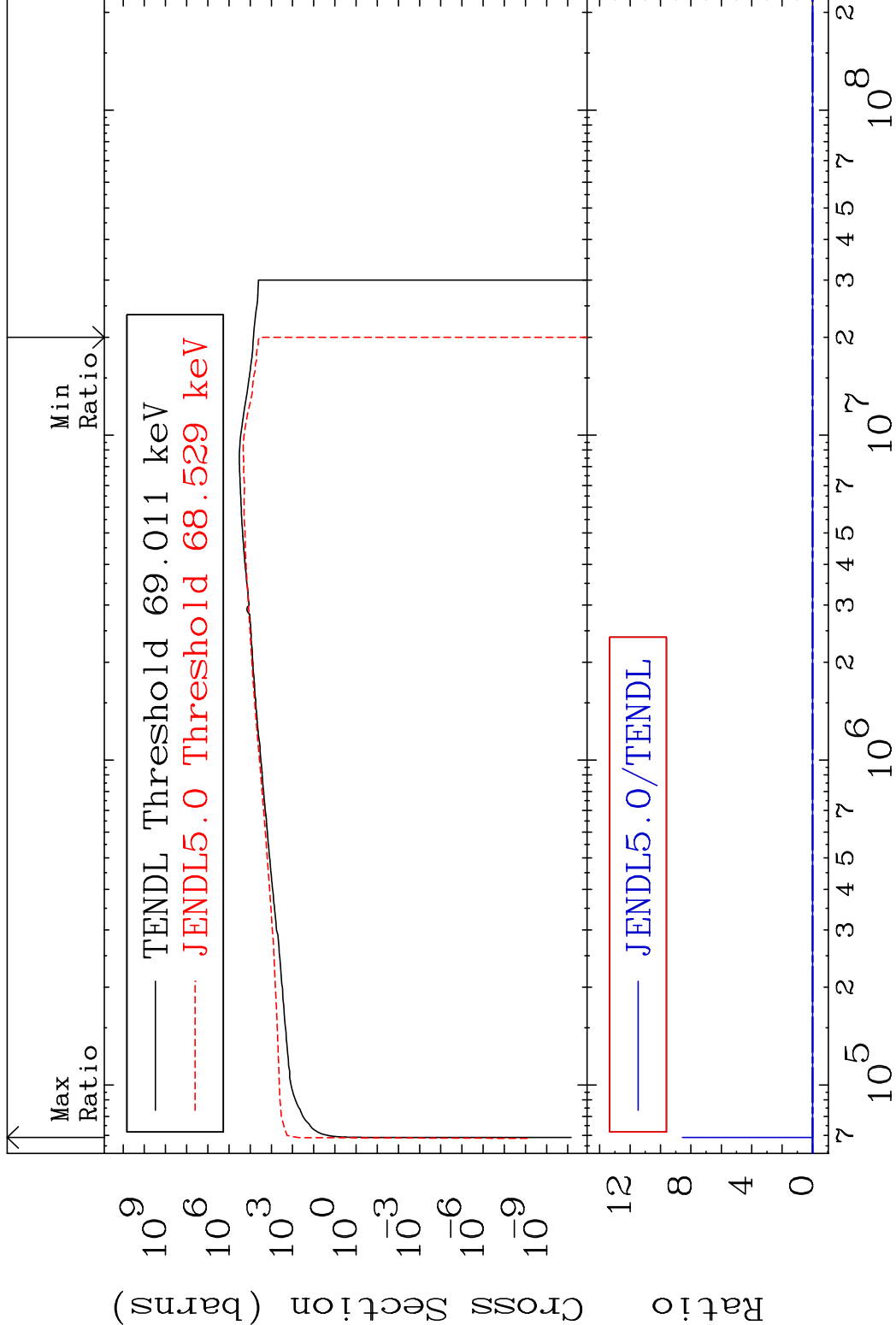




MAT 2834 Kerma non-elastic (all but mt2) 28-Ni-61
 Cross Section -97.82 To 9999. %

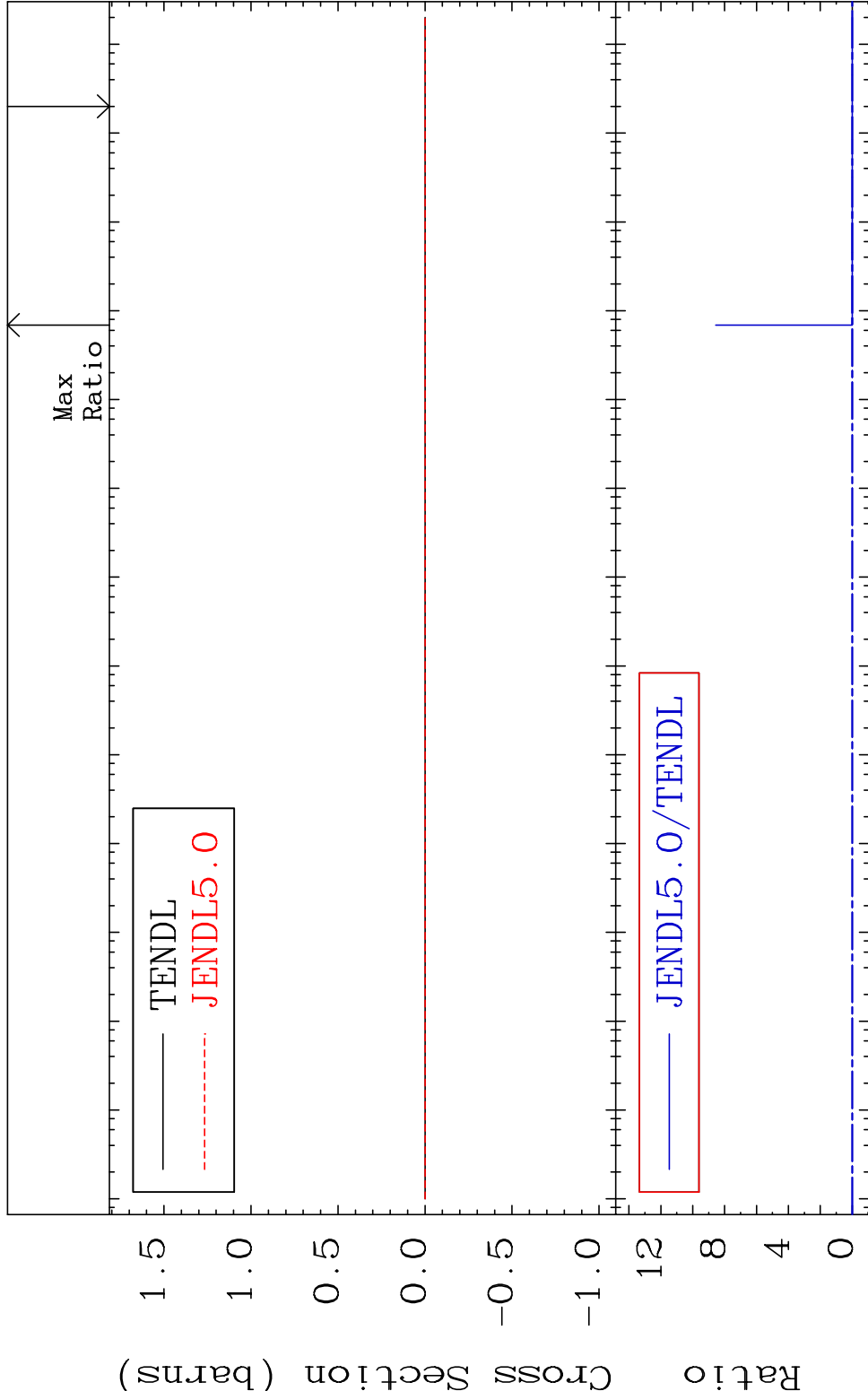


59 Incident Energy (eV) 28-Ni-61



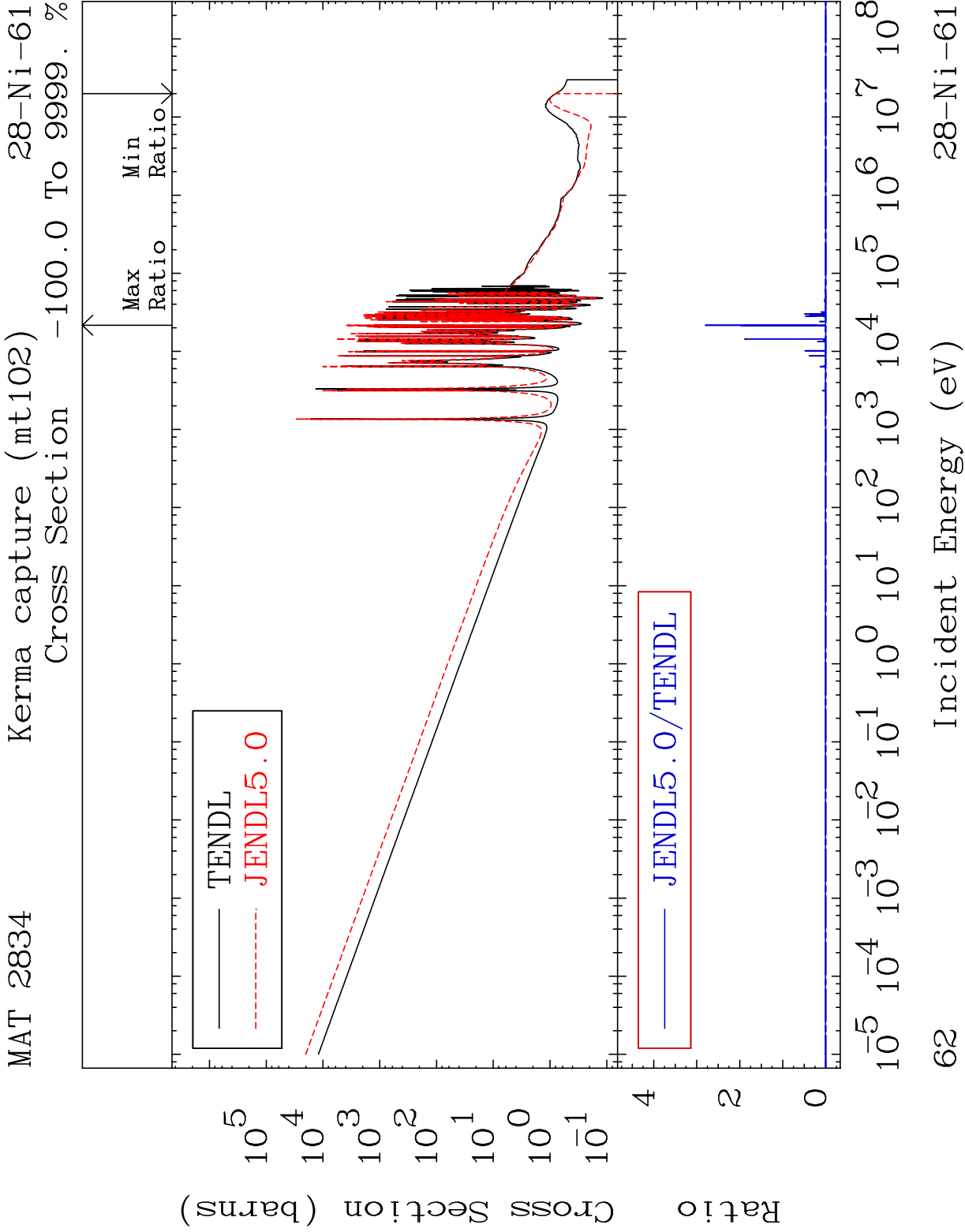
MAT 2834 Kerma fission (mt18 or mt19-20-21-38) 28-Ni-61

Cross Section -100.0 To 9999. %

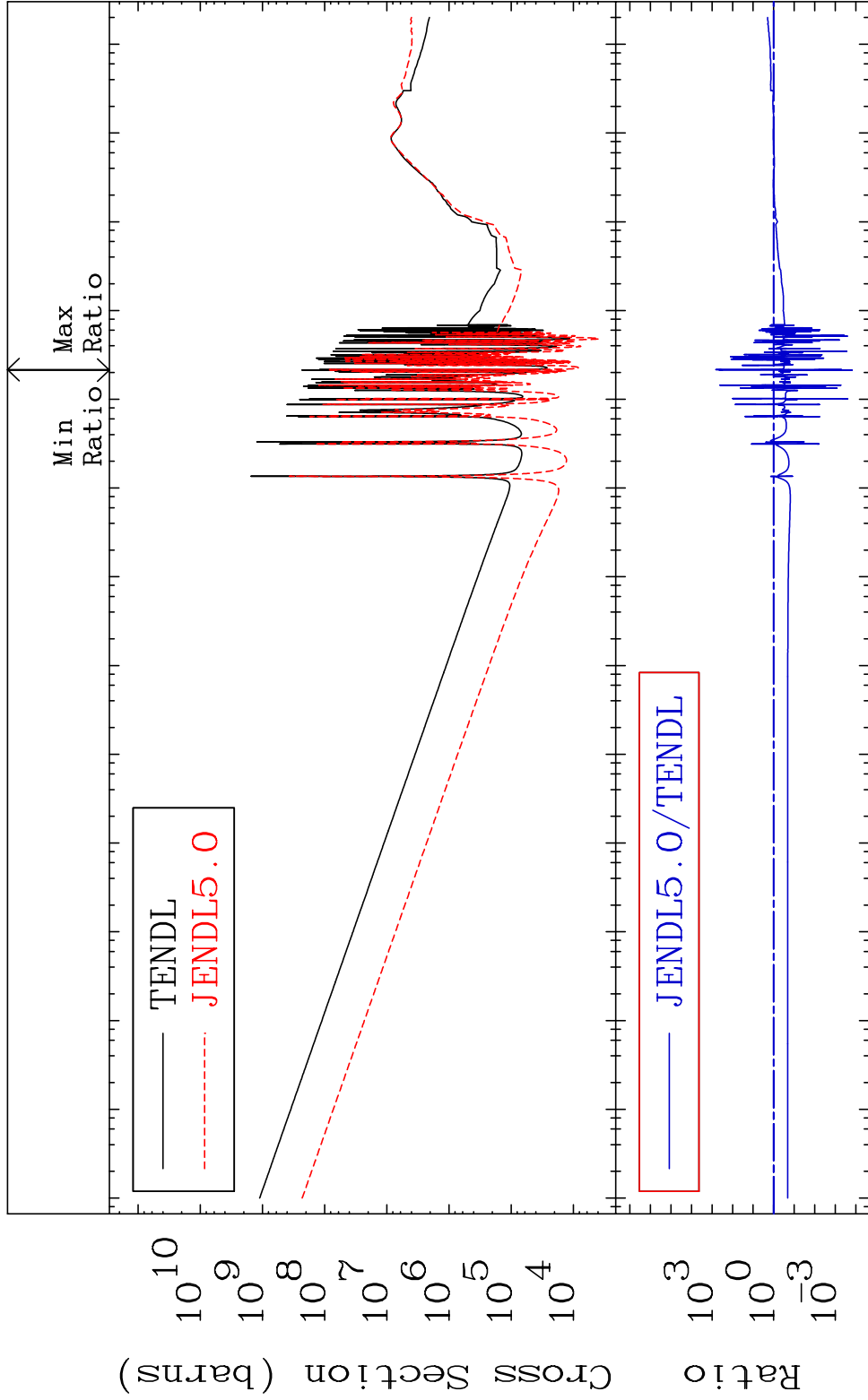


10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

61 Incident Energy (eV) 28-Ni-61

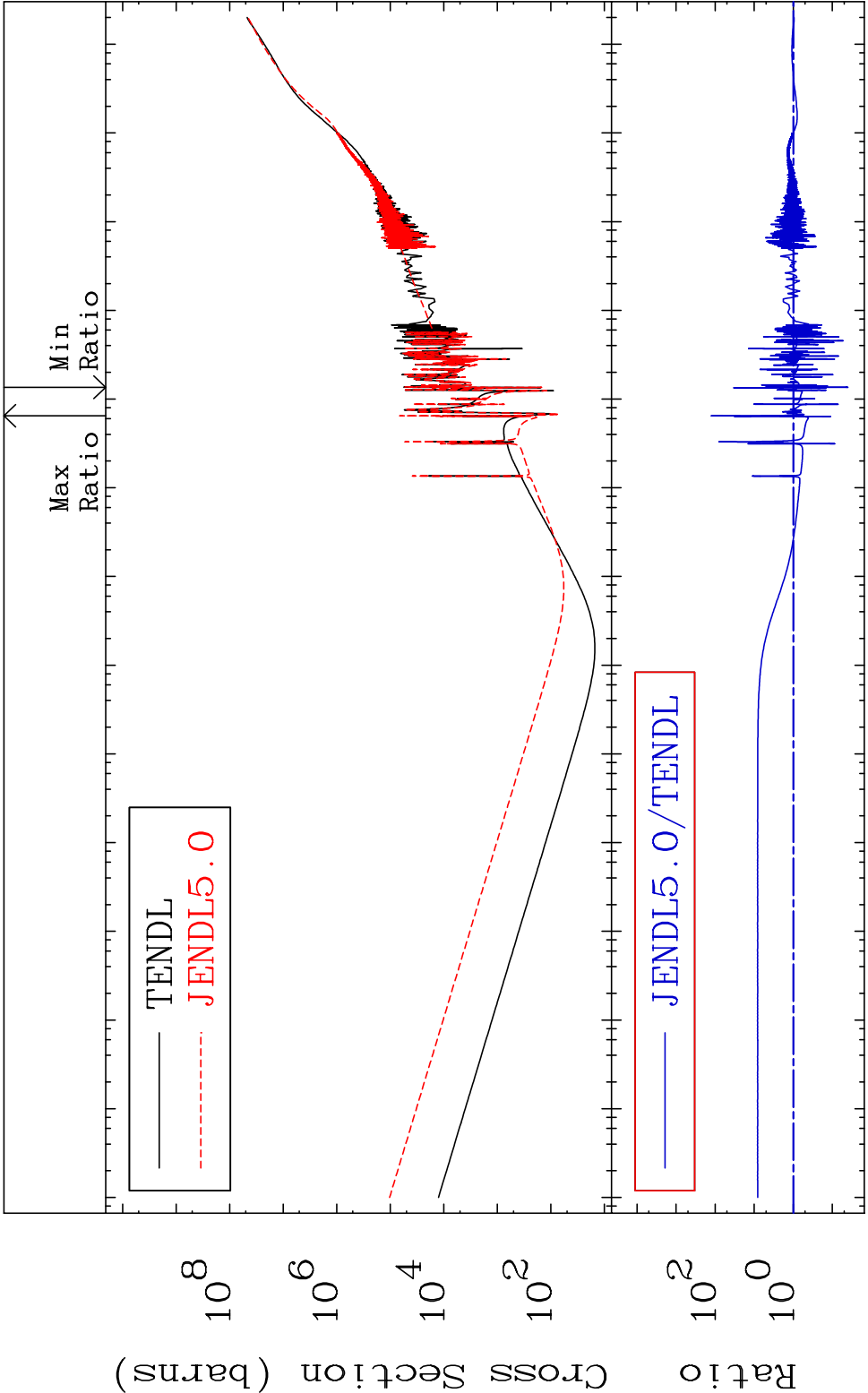


MAT 2834 Total photon (eV-barns) 28-Ni-61
Cross Section -99.99 To 9999. %



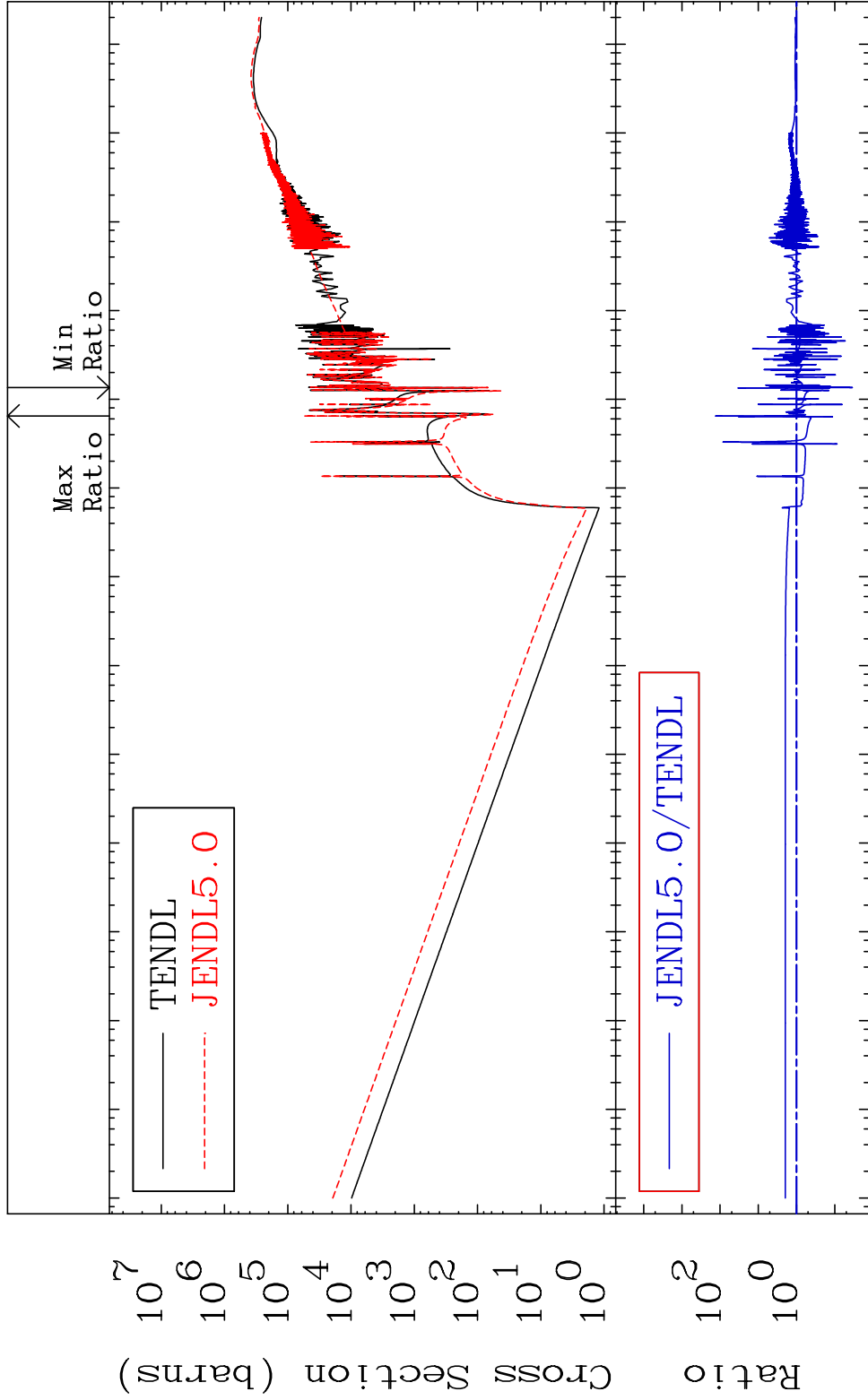
63 Incident Energy (eV) 28-Ni-61

MAT 2834 Total kinematic kerma (high limit) 28-Ni-61
Cross Section -95.96 To 9999. %



64 Incident Energy (eV) 28-Ni-61

MAT 2834 Dpa total (eV-barns) 28-Ni-61
Cross Section -96.50 To 9999. %



65 Incident Energy (eV) 28-Ni-61

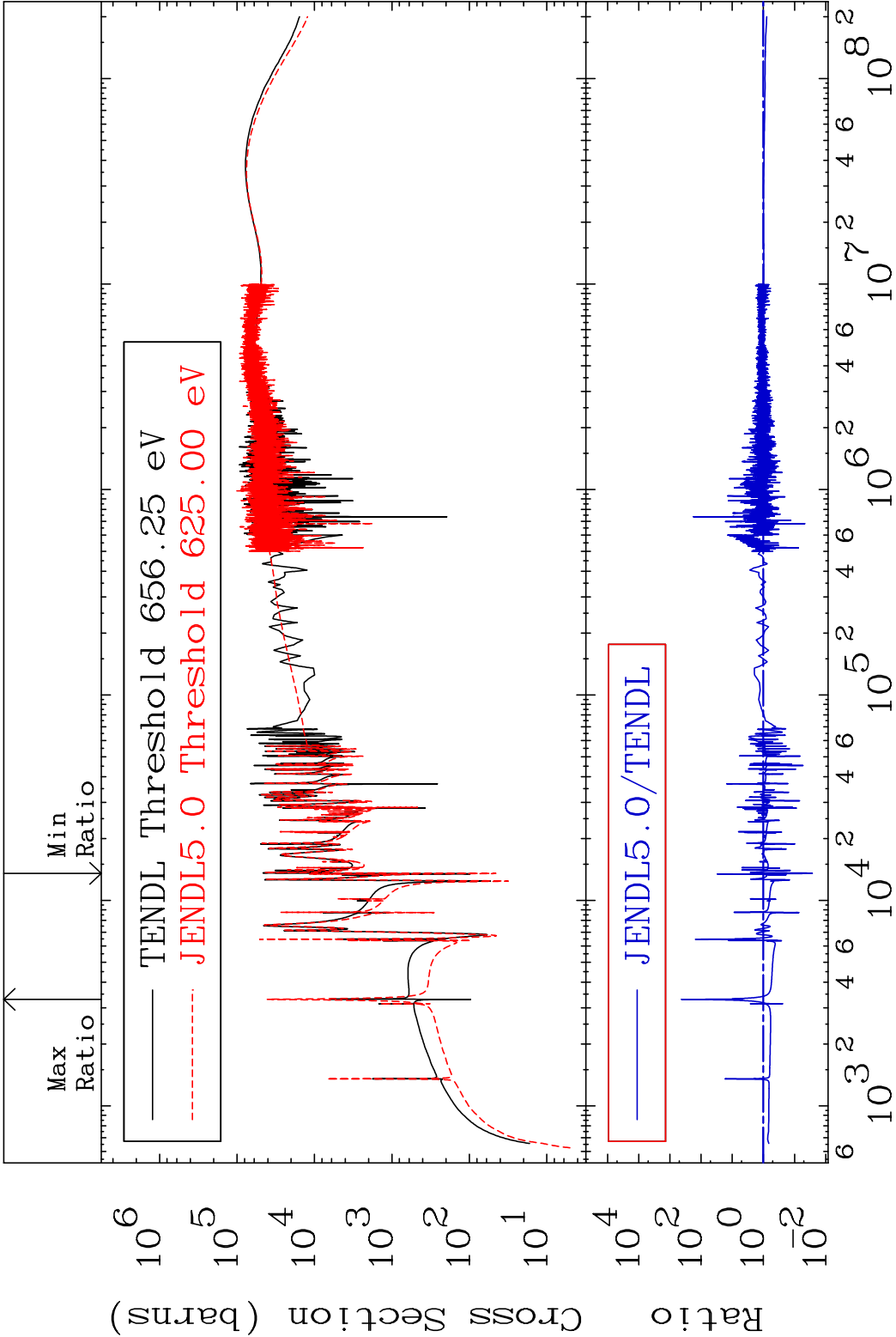
MAT 2834

Dpa elastic (mt2)

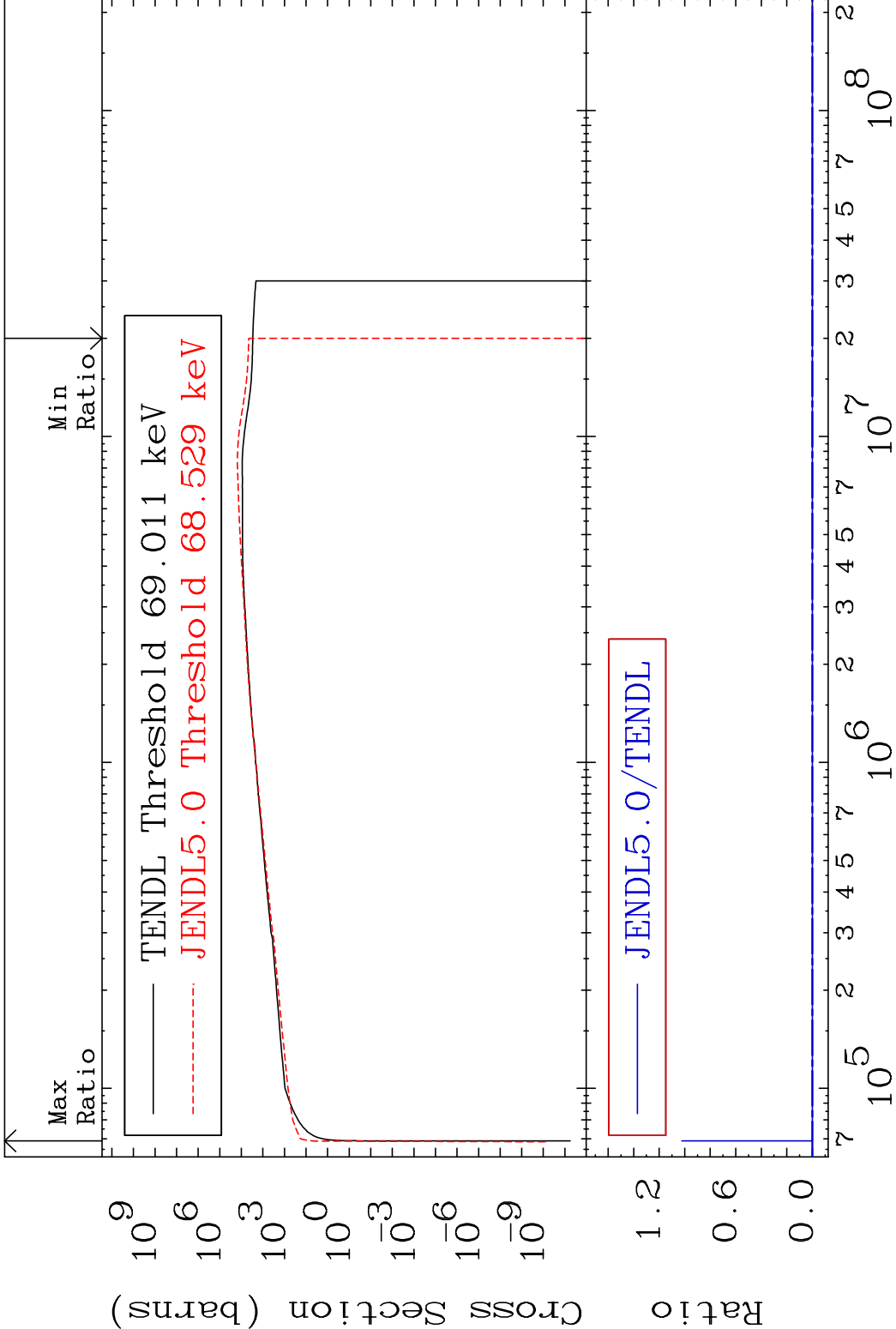
28-Ni-61

Cross Section

-97.30 To 9999. %

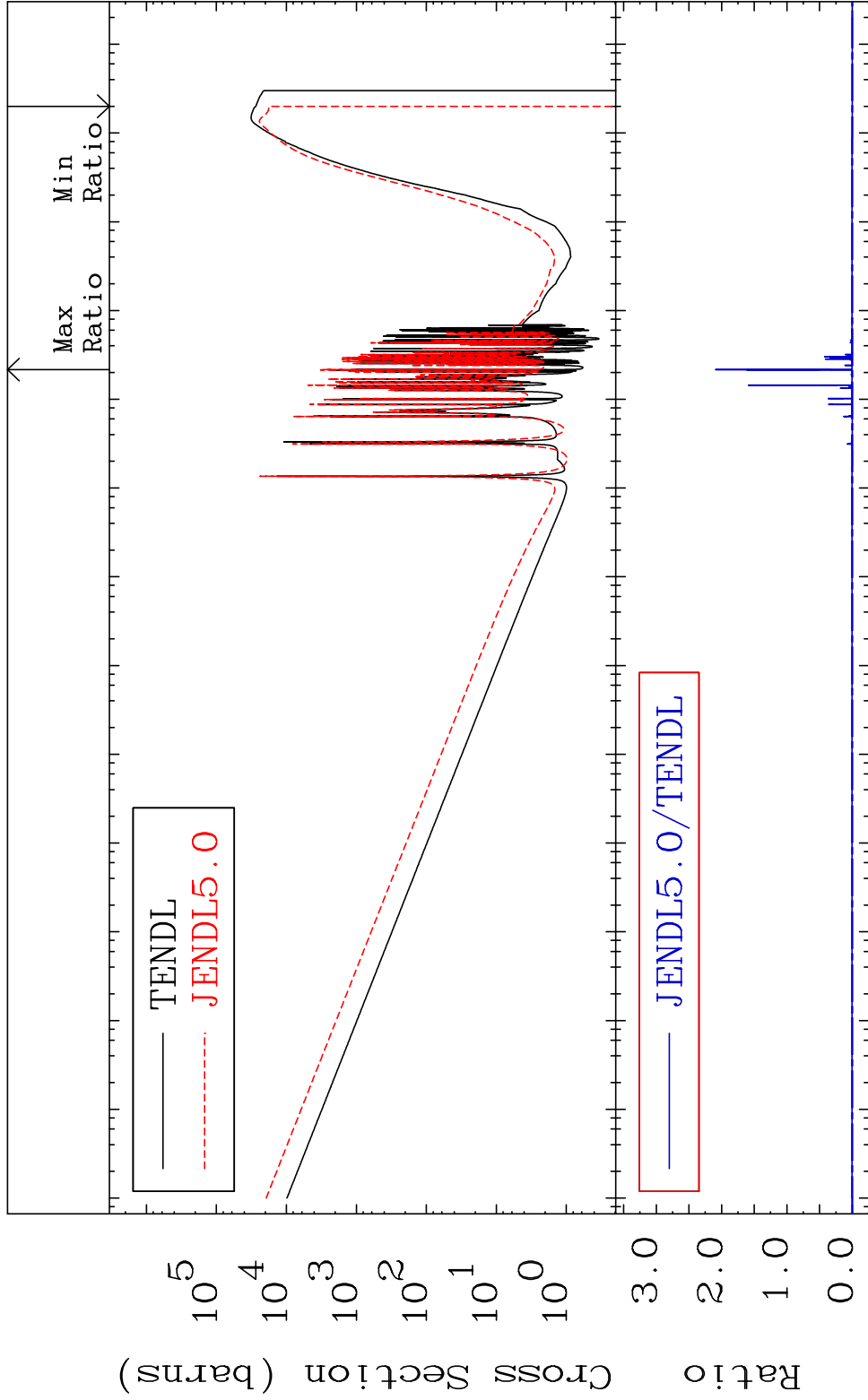


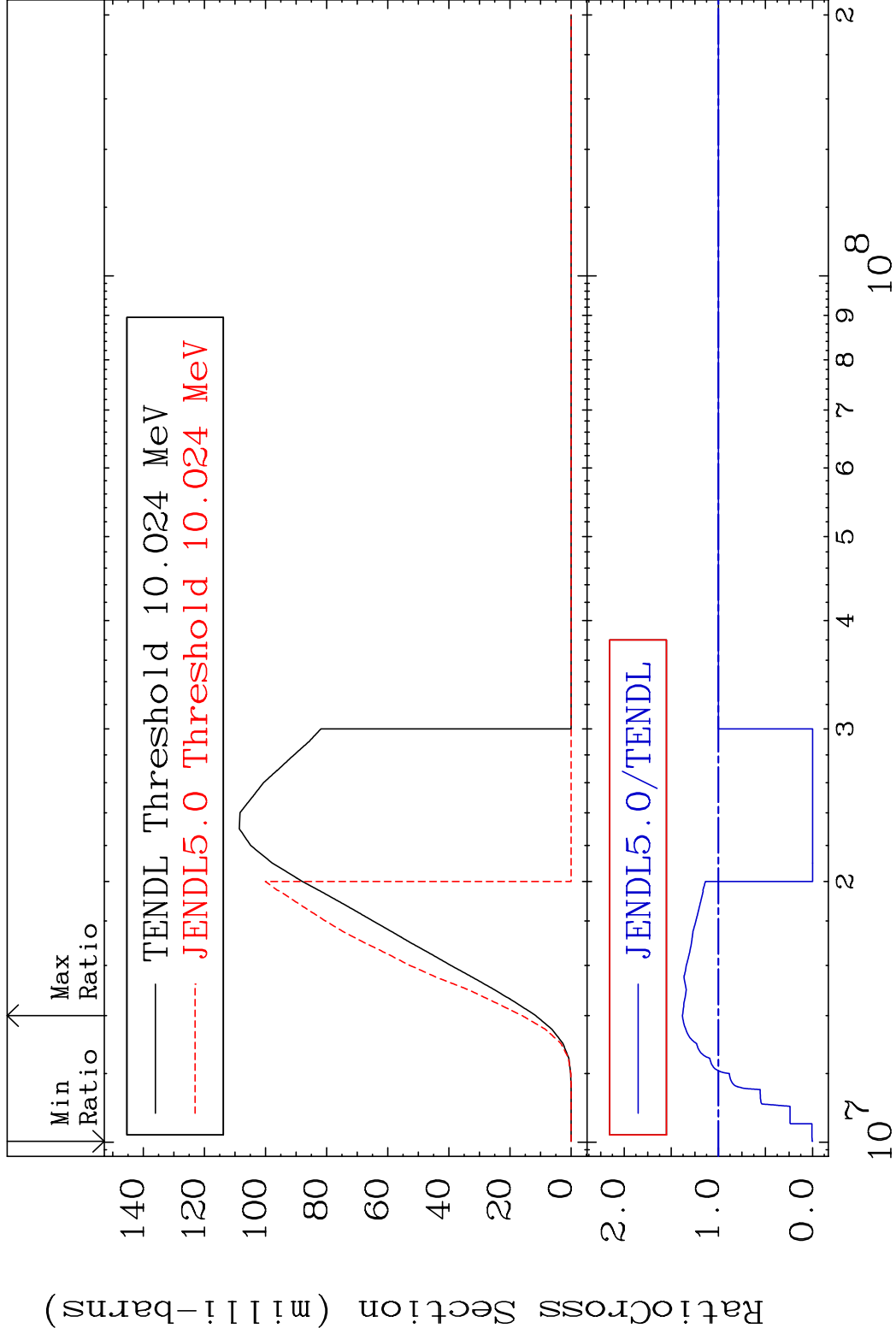
MAT 2834 Dpa inelastic (mt51-91) 28-Ni-61
Cross Section -100.0 To 9999. %



67 Incident Energy (eV) 28-Ni-61

MAT 2834 Dpa disappearance (mt102 -120) 28-Ni-61
Cross Section -100.0 To 9999. %





MAT 2834 (n,n') p:27-Co-60m1 28-Ni-61

Radionuclide Production Cross Section 180.0 mb 32.24 %

