

Program Complot
(Version 2021-1)

by

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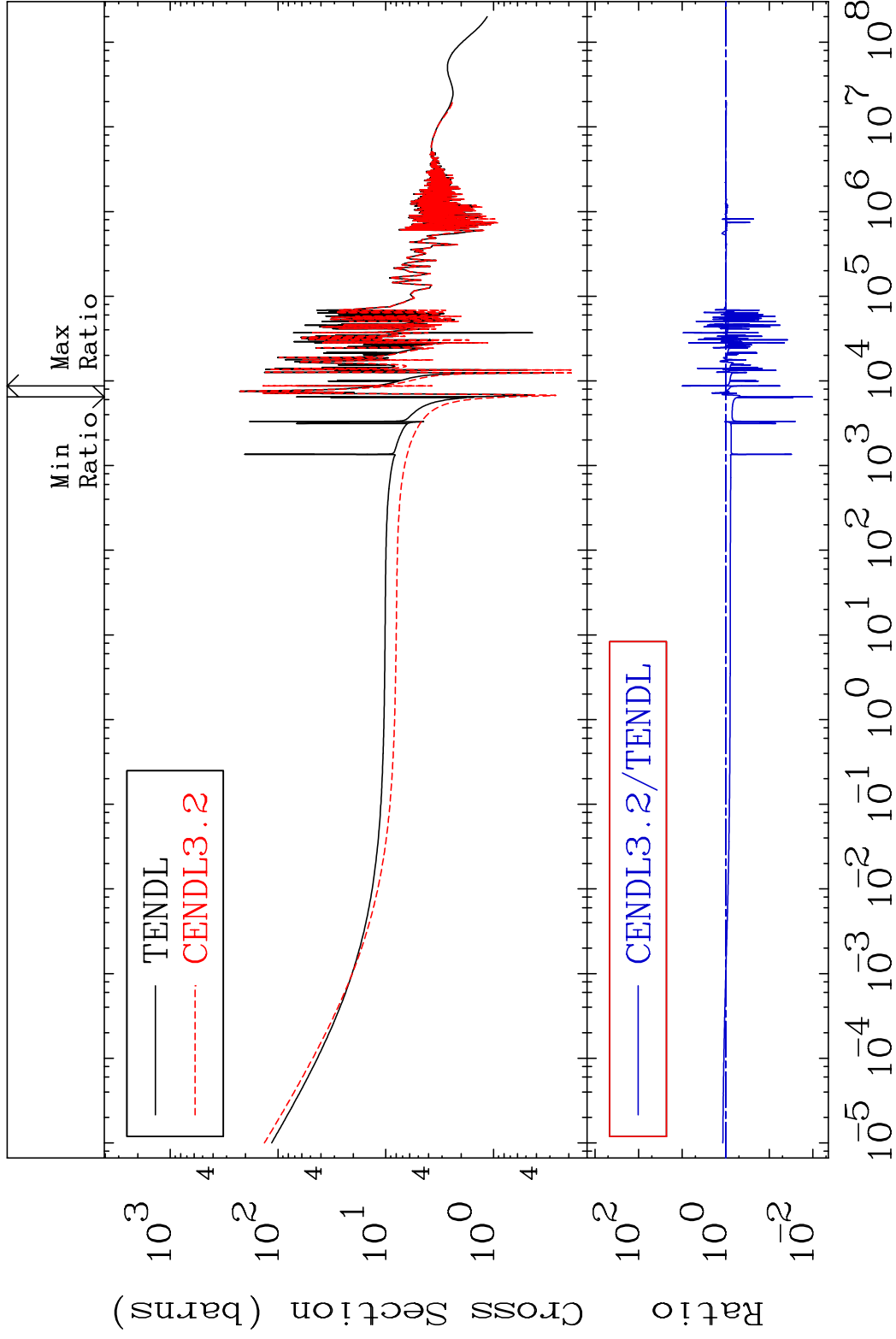
Press Mouse Button to Start

MAT 2834

Total

28-Ni-61

Cross Section -98.98 To 890.4 %



1

Incident Energy (eV)

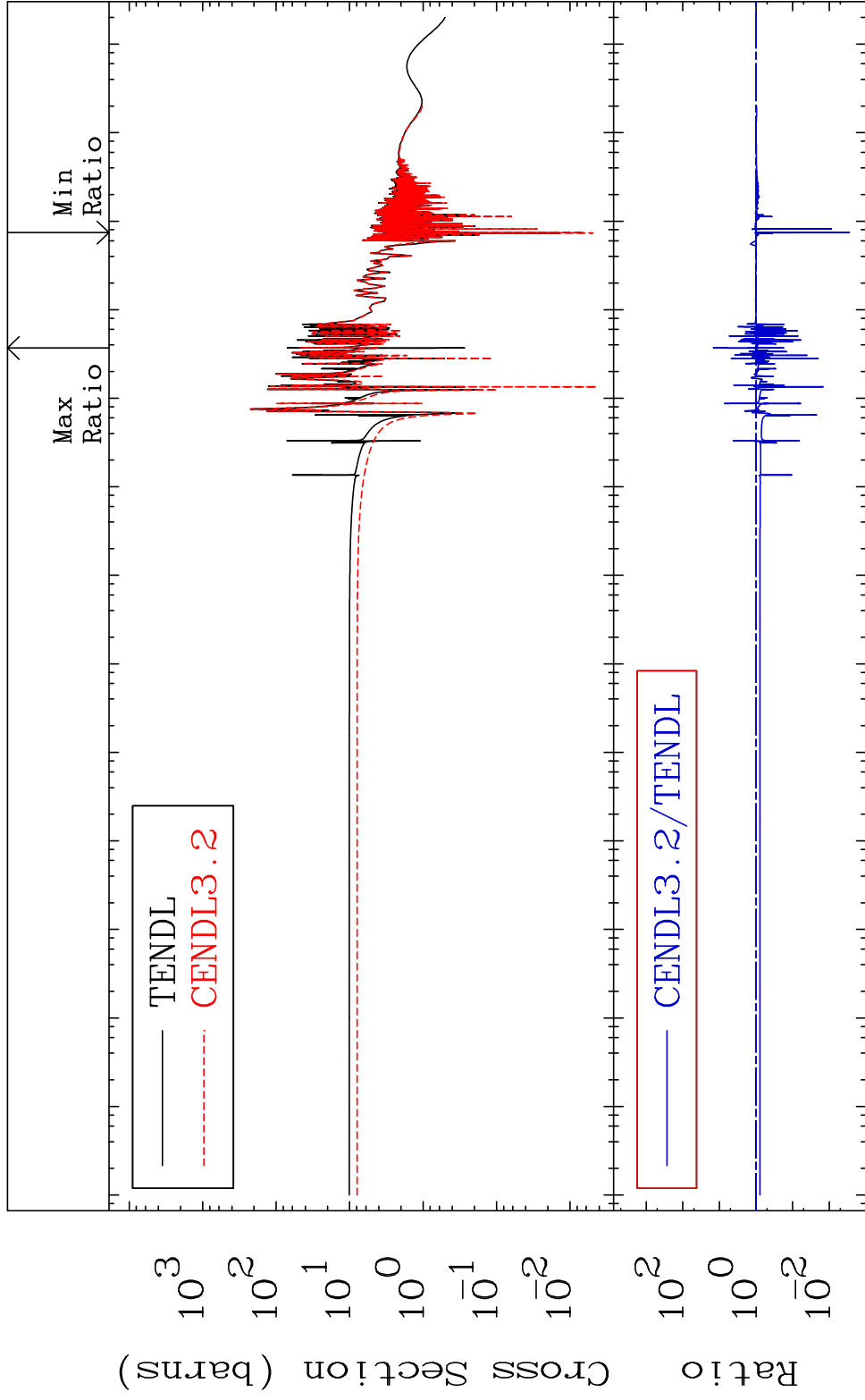
28-Ni-61

MAT 2834

Elastic

28-Ni-61

Cross Section -99.72 To 1381. %



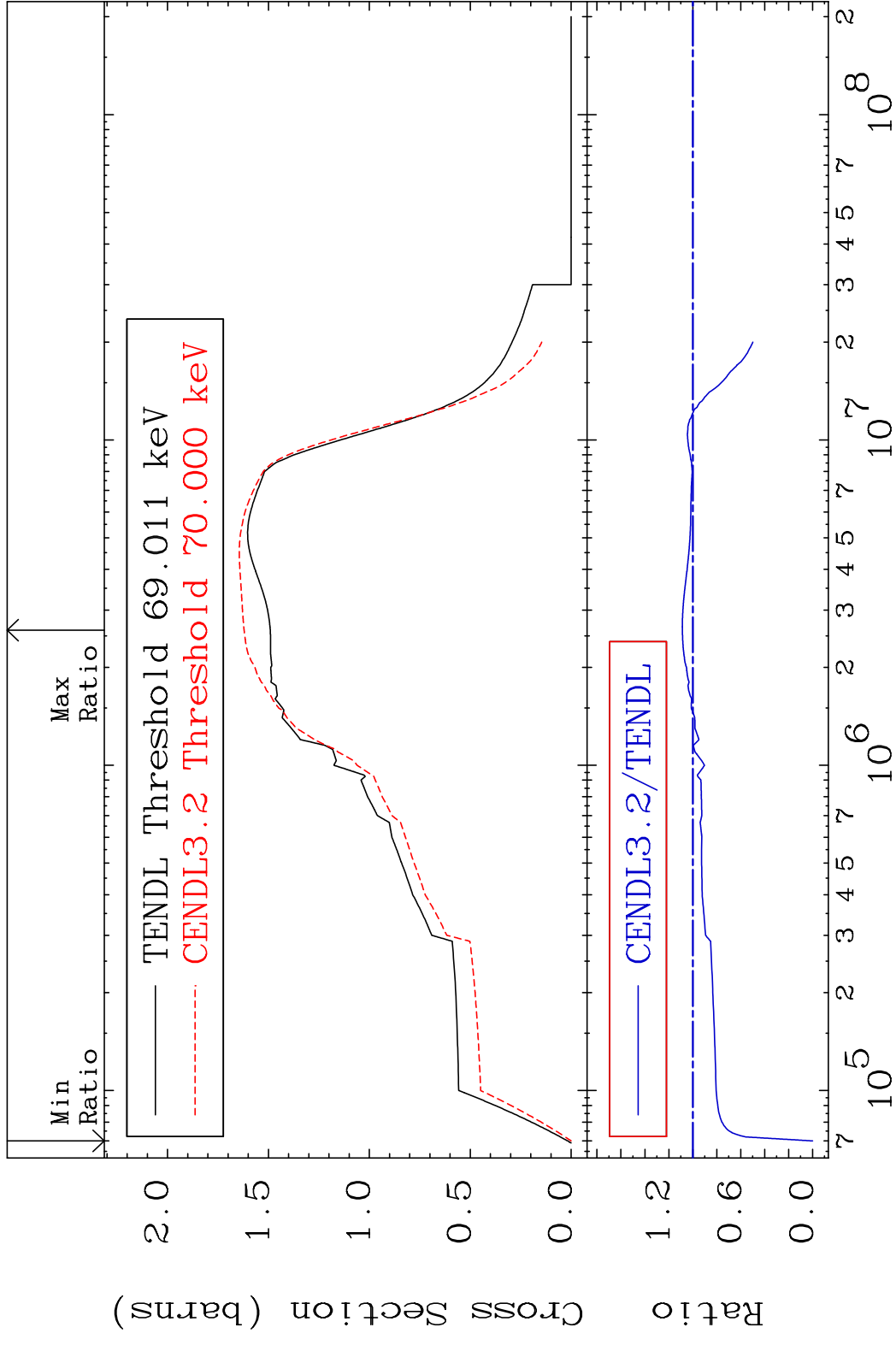
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

2

Incident Energy (eV)

28-Ni-61

MAT 2834 Inelastic 28-Ni-61
 Cross Section -100.0 To 8.712 %



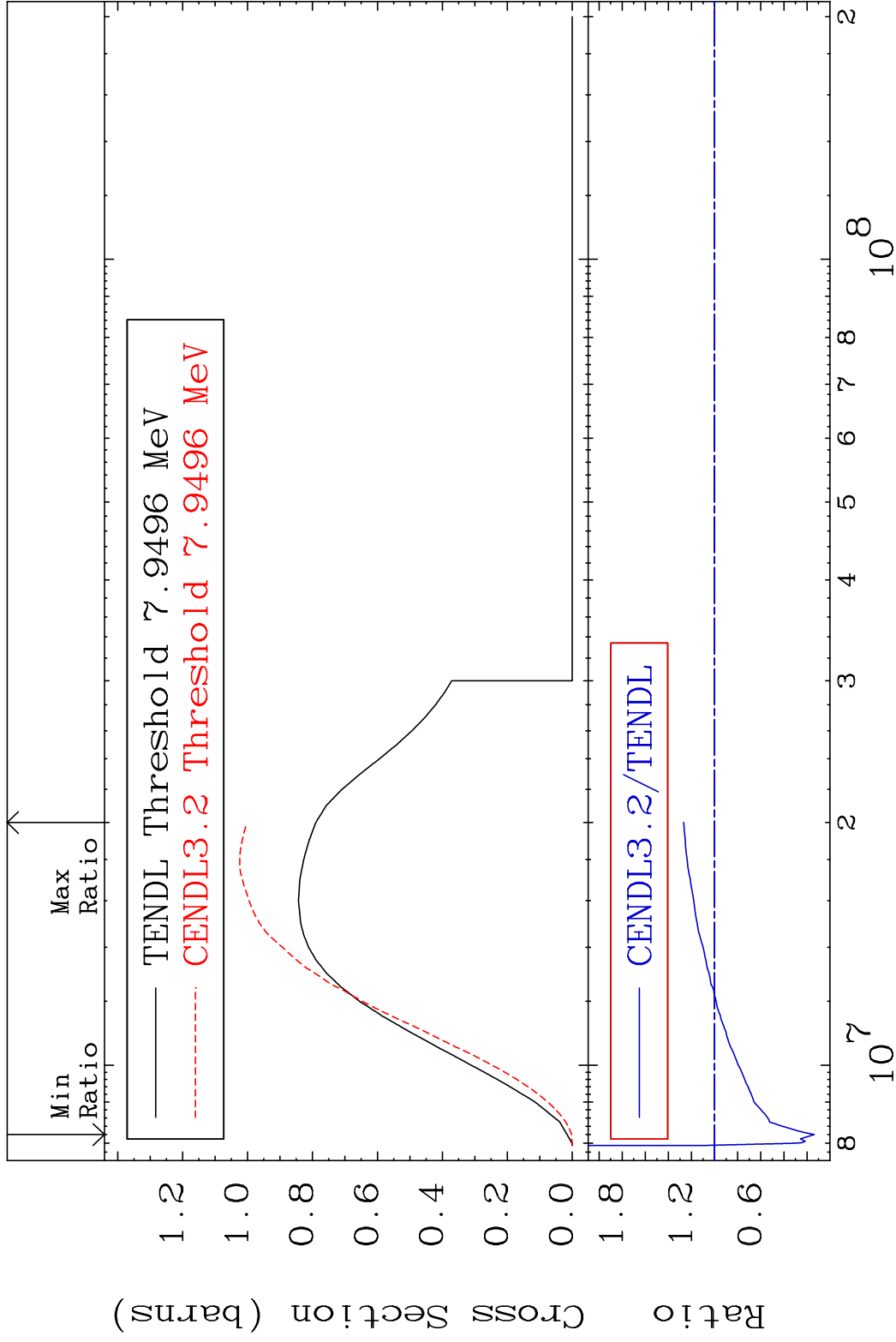
3 Incident Energy (eV) 28-Ni-61

MAT 2834

(n,2n)

28-Ni-61

Cross Section -86.15 To 26.79 %



4

Incident Energy (eV)

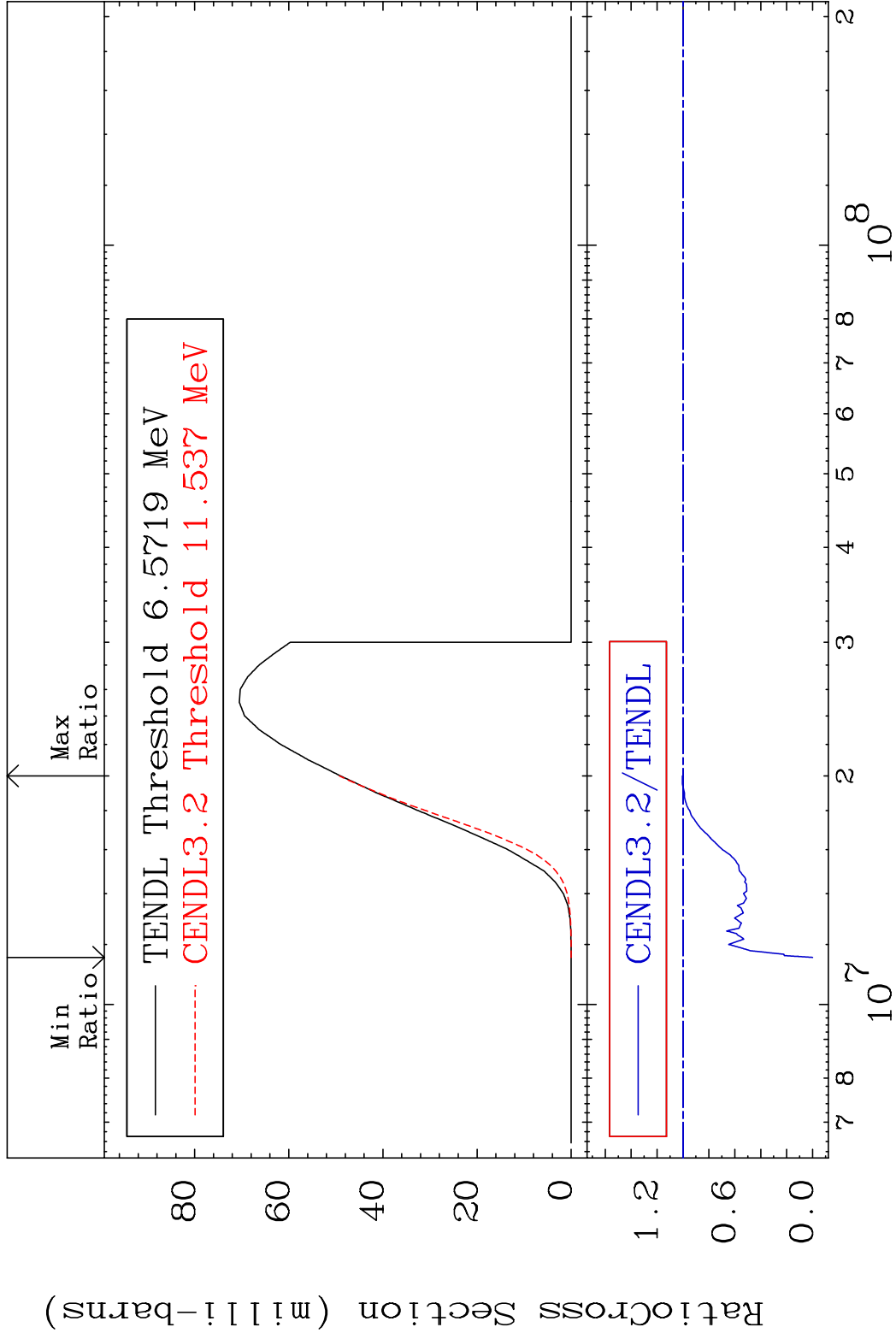
28-Ni-61

MAT 2834

(n, n') α

28-Ni-61

Cross Section -100.0 To 0.495 %



5

Incident Energy (eV)

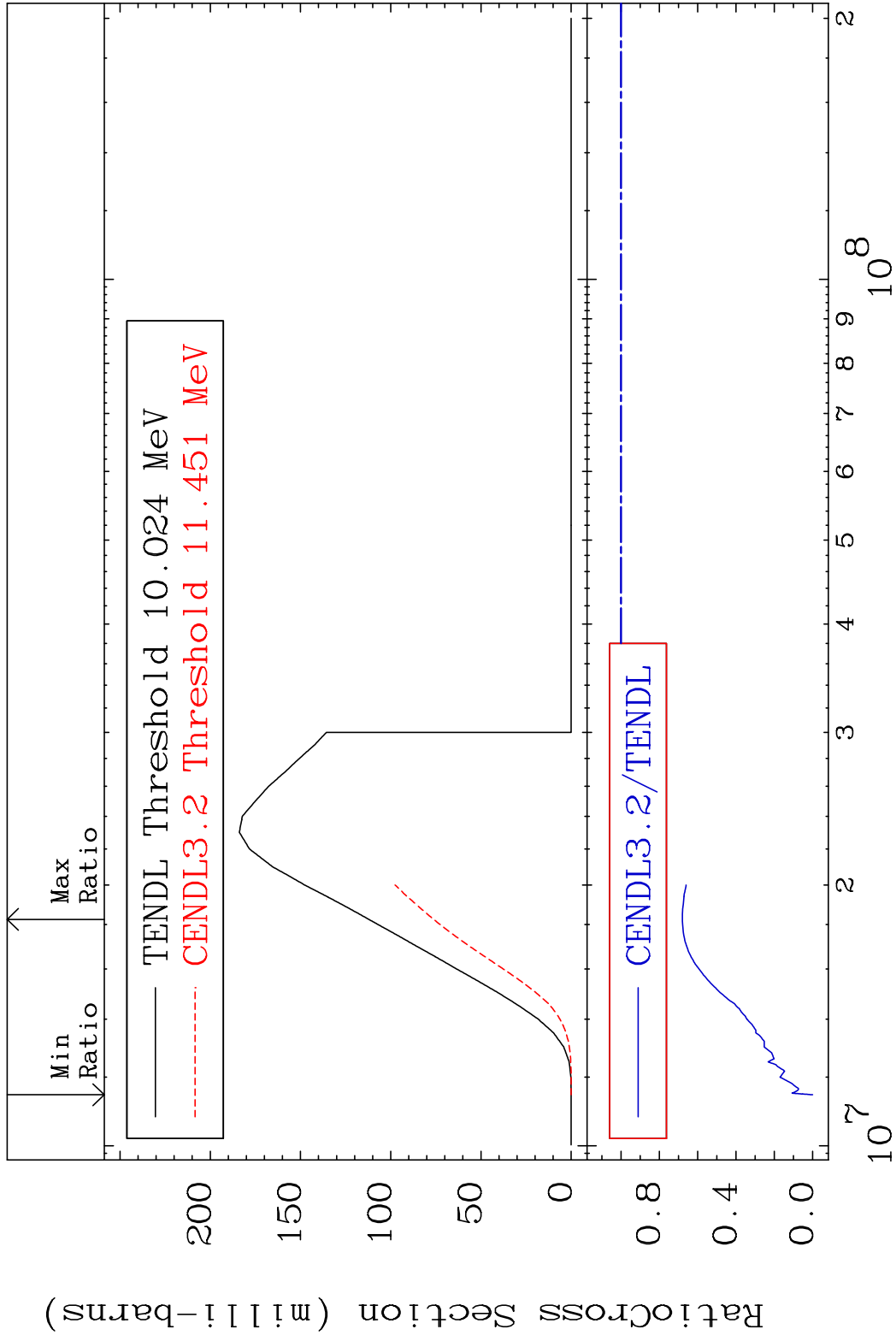
28-Ni-61

MAT 2834

(n, n') p

28-Ni-61

Cross Section -100.0 To -32.00%

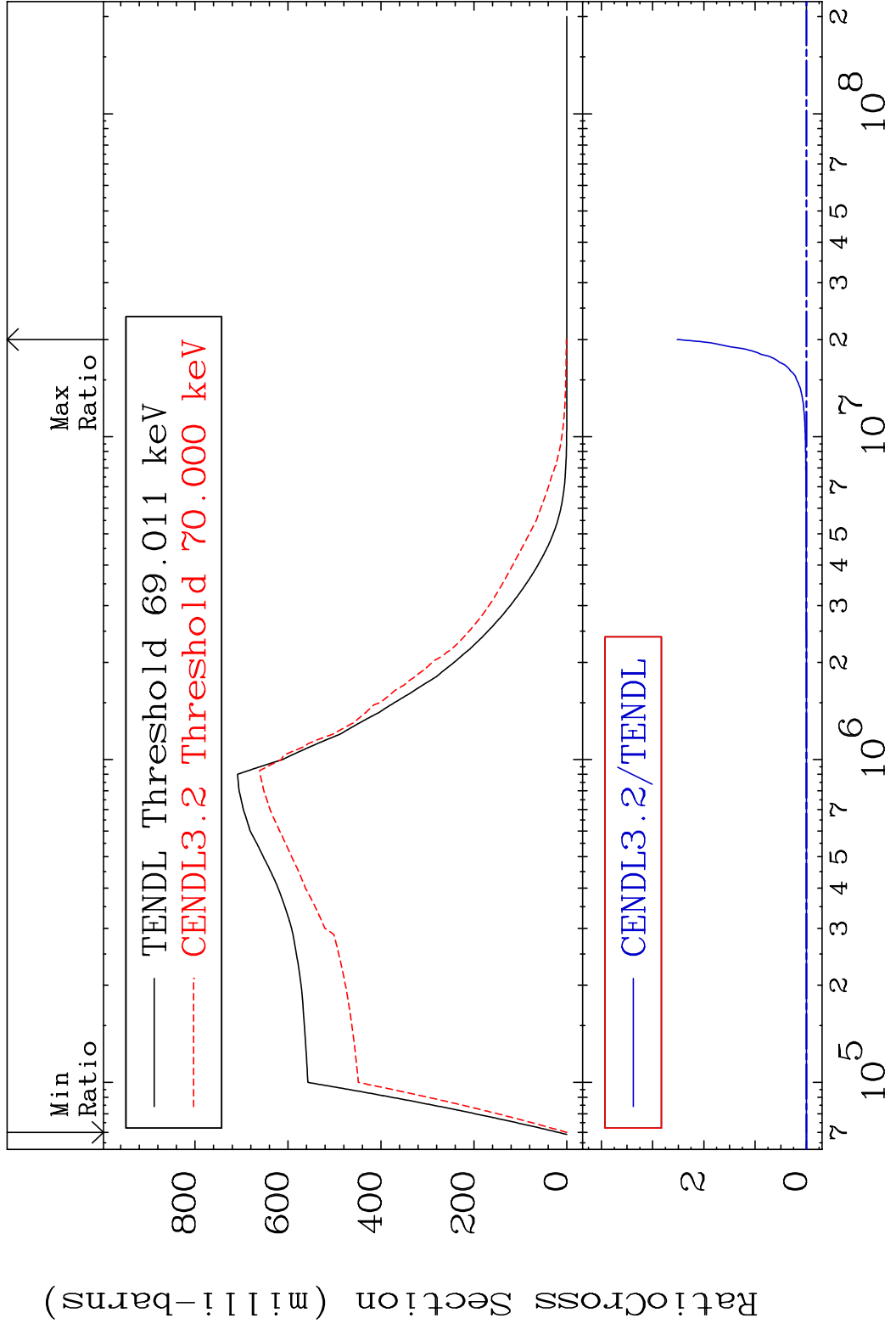


6

Incident Energy (eV)

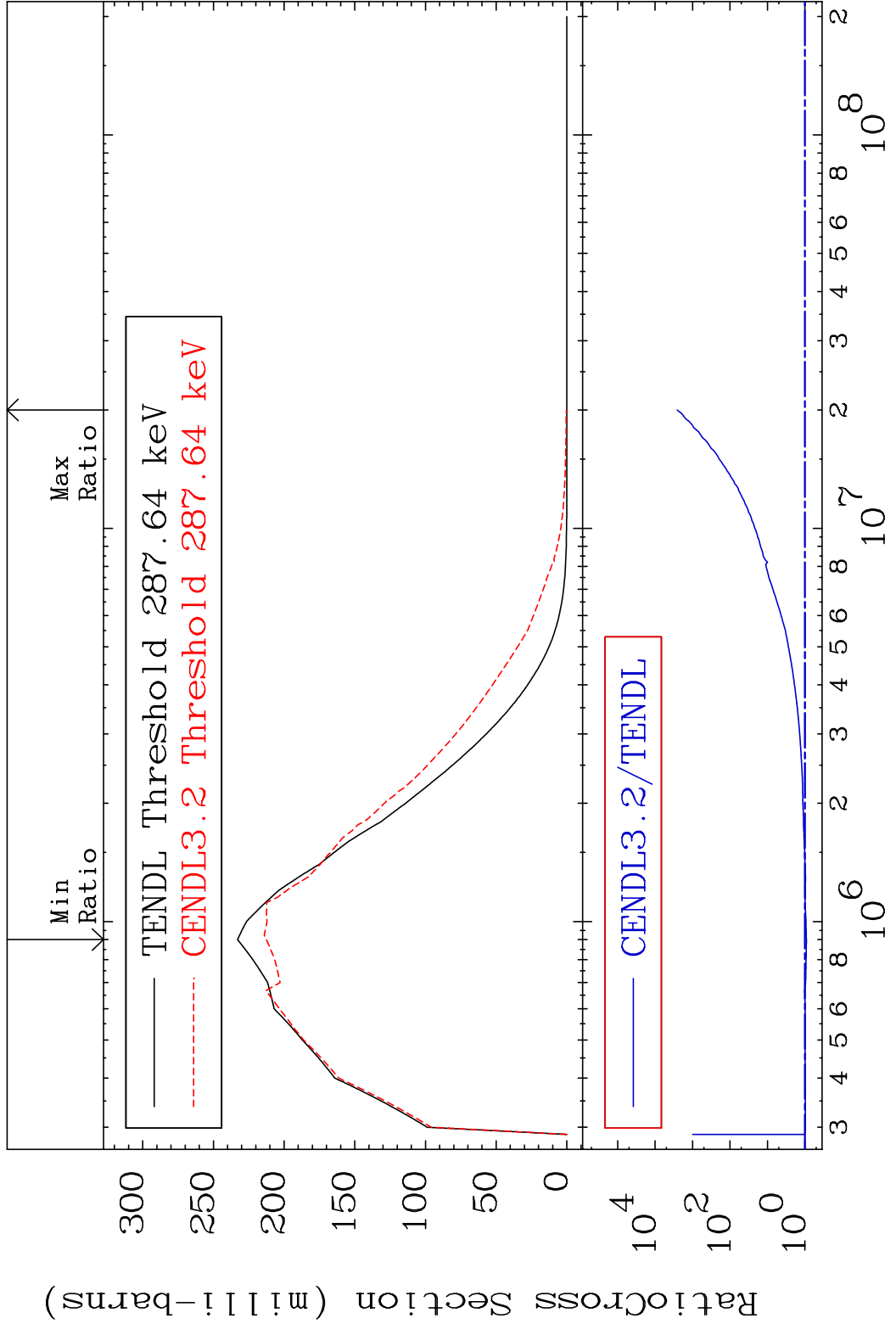
28-Ni-61

MAT 2834 MT= 51 (n,n') Level 28-Ni-61
 Cross Section -100.0 To 9999. %

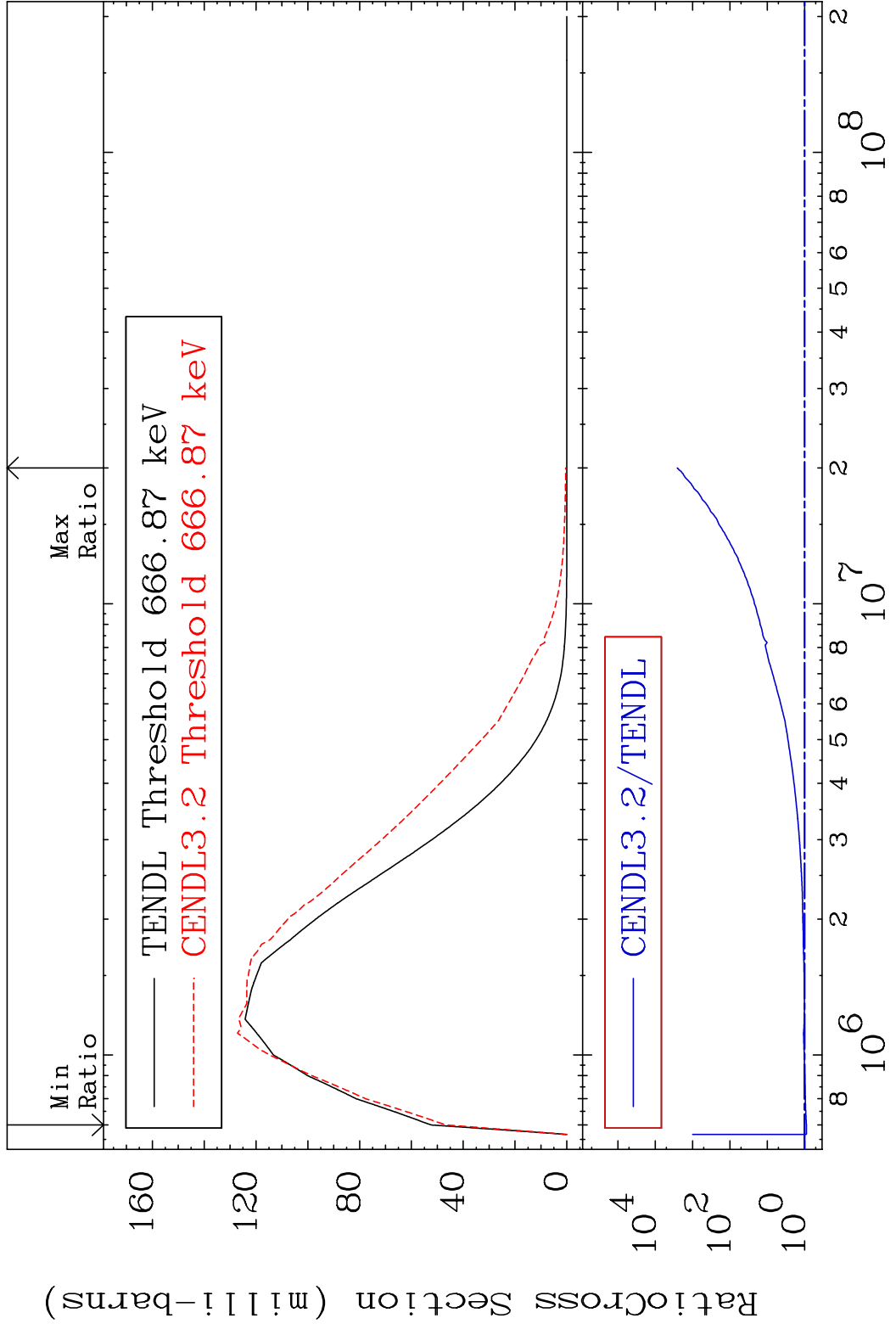


7 Incident Energy (eV) 28-Ni-61

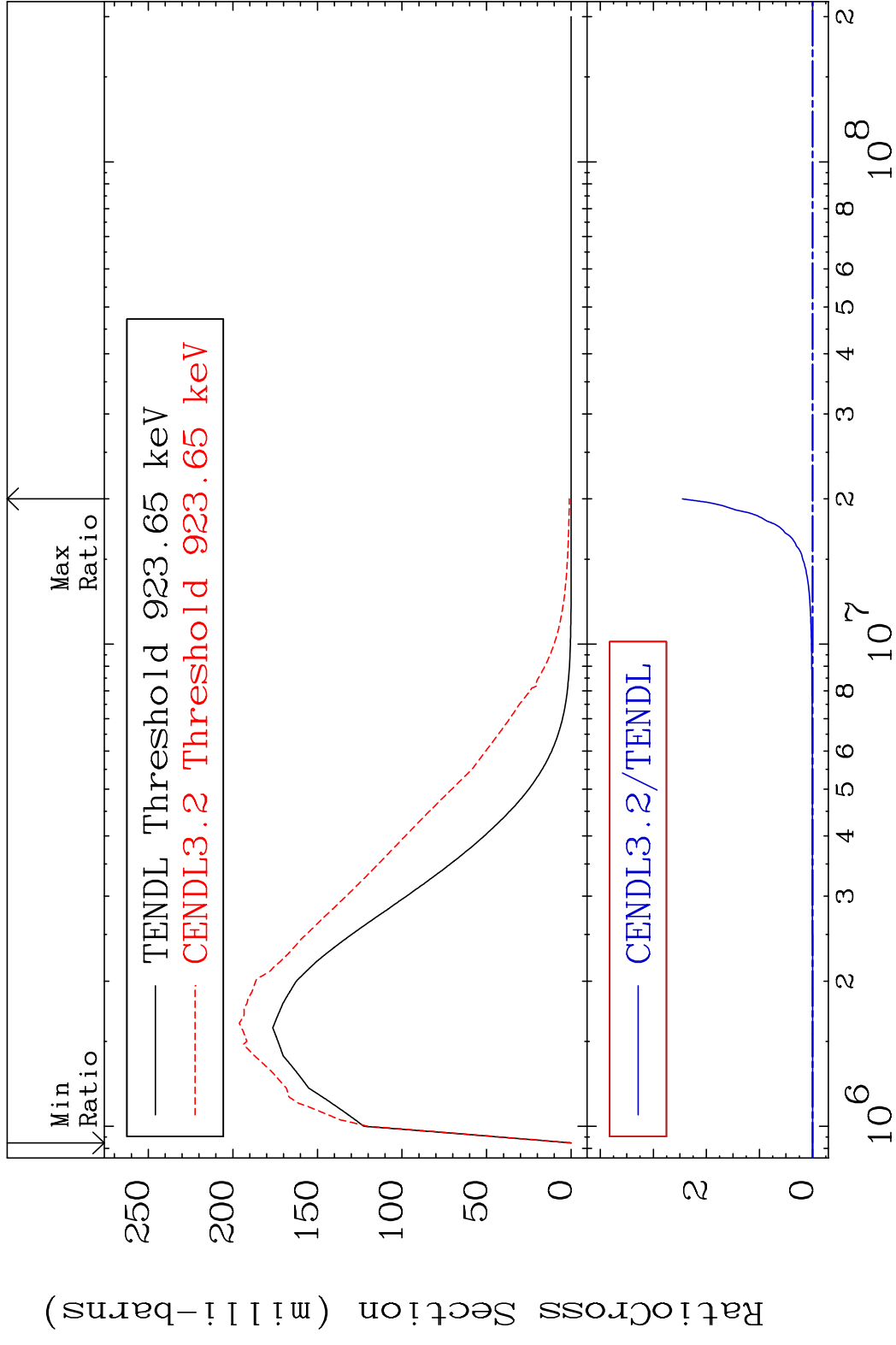
MAT 2834 MT= 52 (n,n') Level 28-Ni-61
 Cross Section -8.768 To 9999. %



MAT 2834 MT= 53 (n, n') Level 28-Ni-61
 Cross Section -10.89 To 9999. %

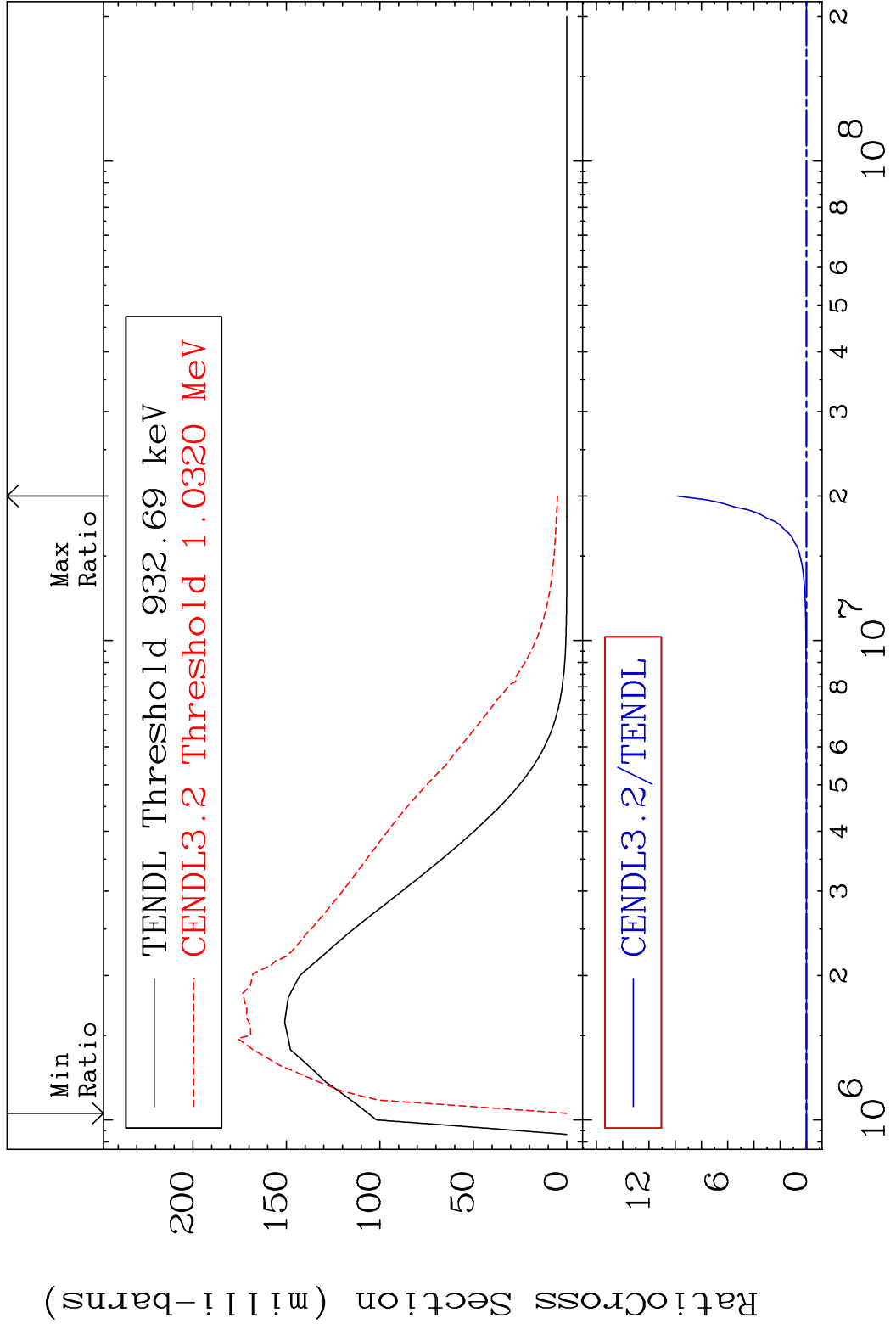


MAT 2834 MT= 54 (n, n') Level 28-Ni-61
 Cross Section -100.0 To 9999. %



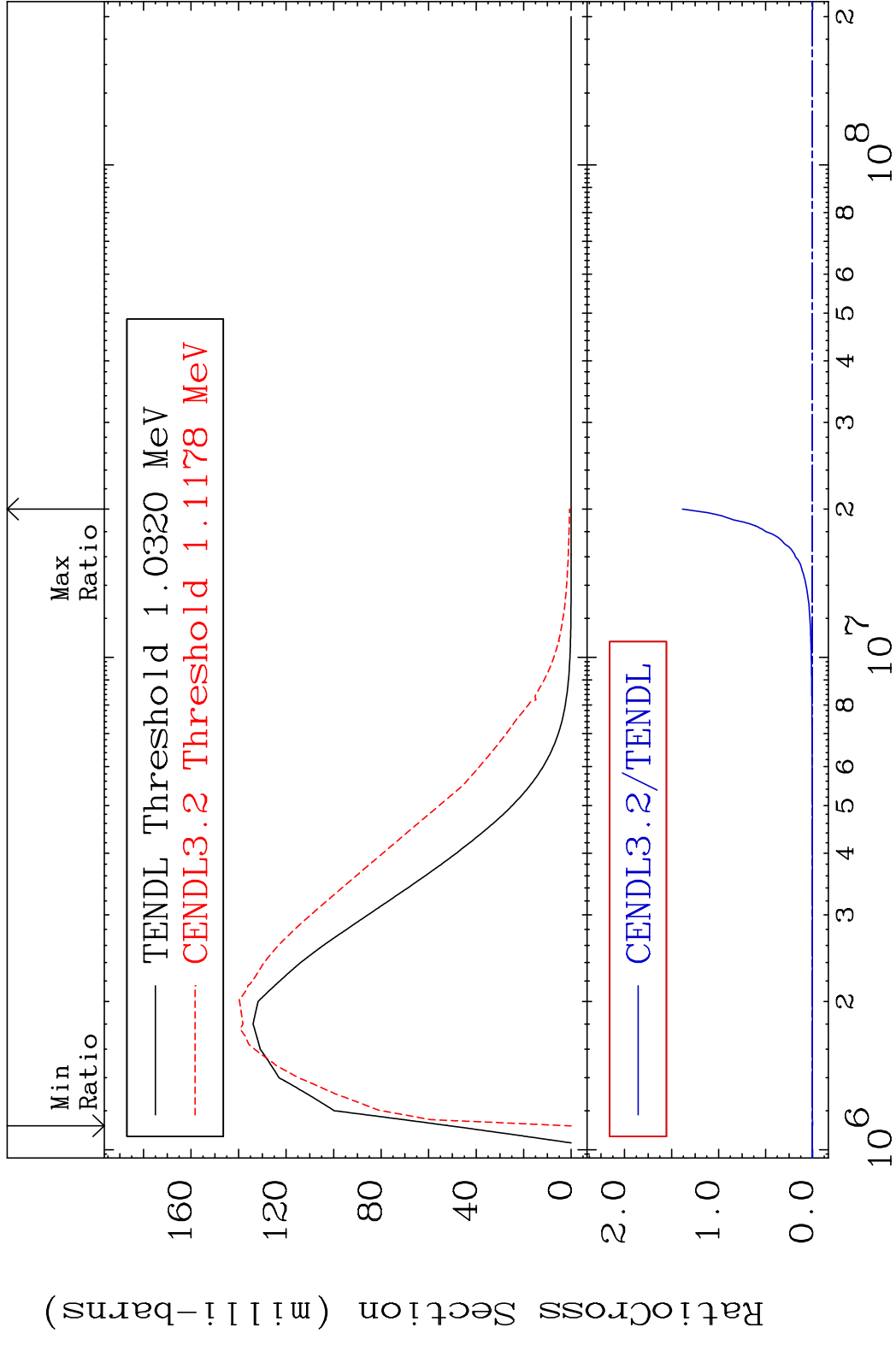
10 Incident Energy (eV) 28-Ni-61

MAT 2834 MT= 55 (n, n') Level 28-Ni-61
 Cross Section -100.0 To 9999. %

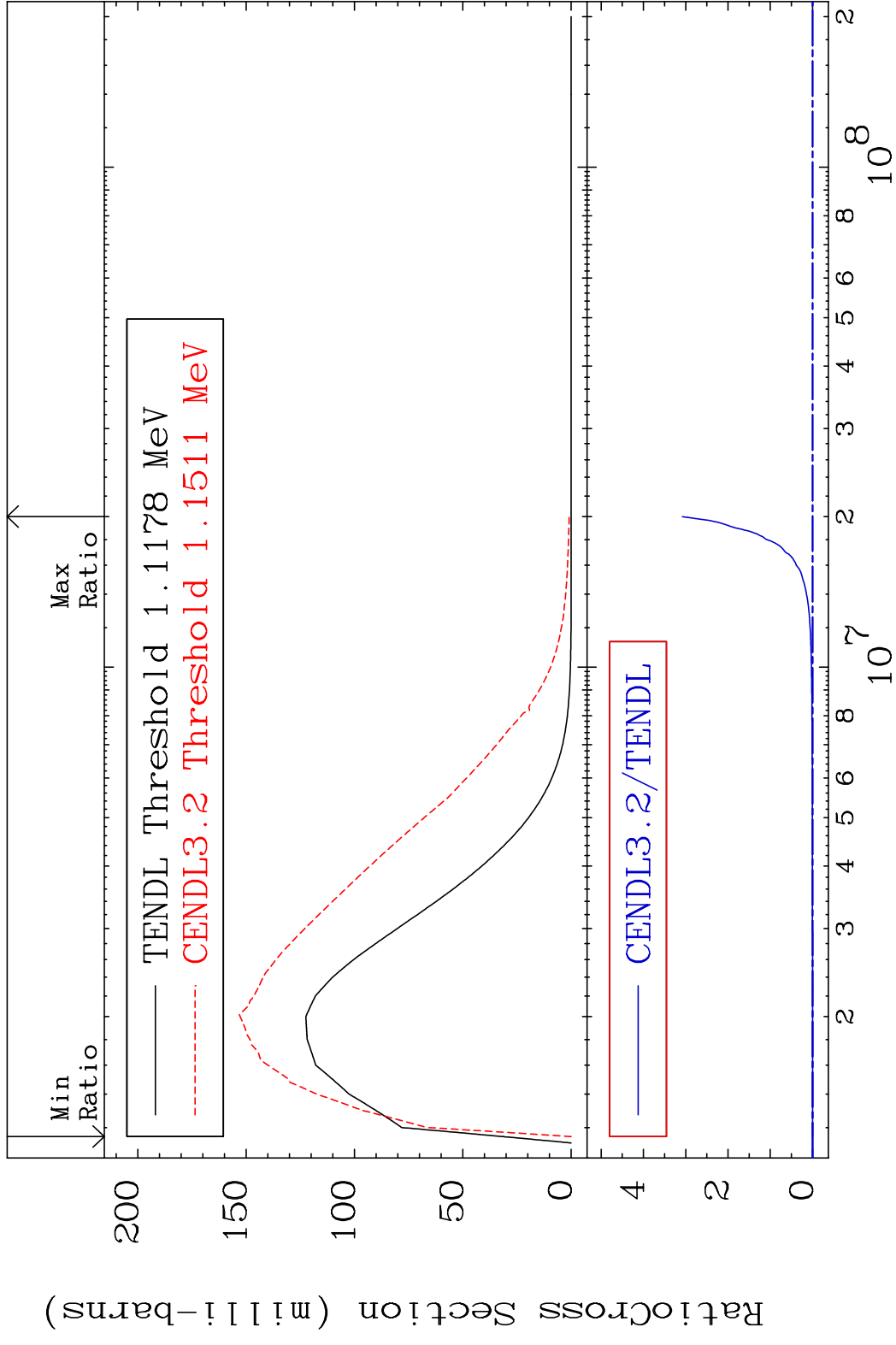


11 Incident Energy (eV) 28-Ni-61

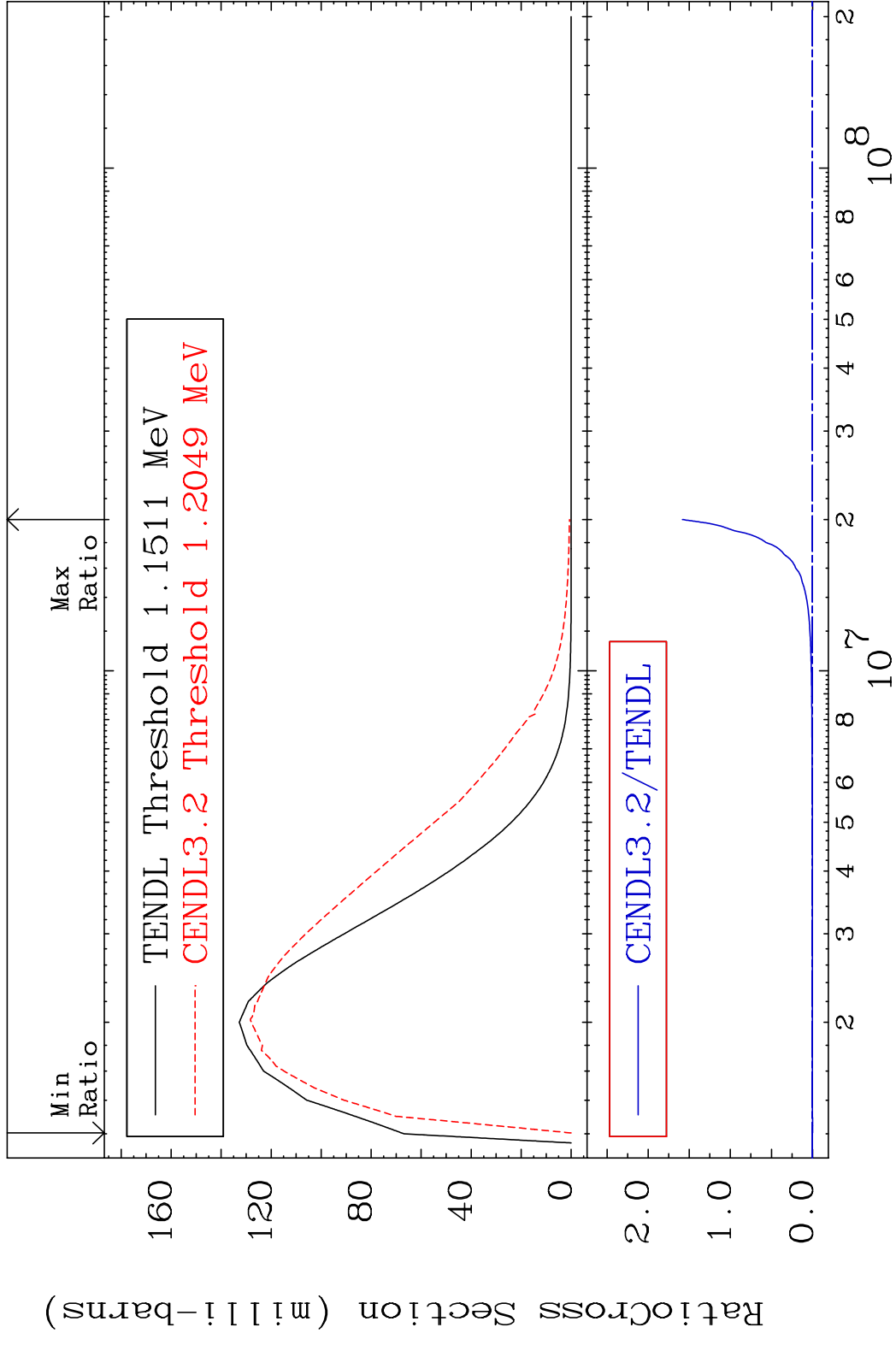
MAT 2834 MT= 56 (n, n') Level 28-Ni-61
 Cross Section -100.0 To 9999. %



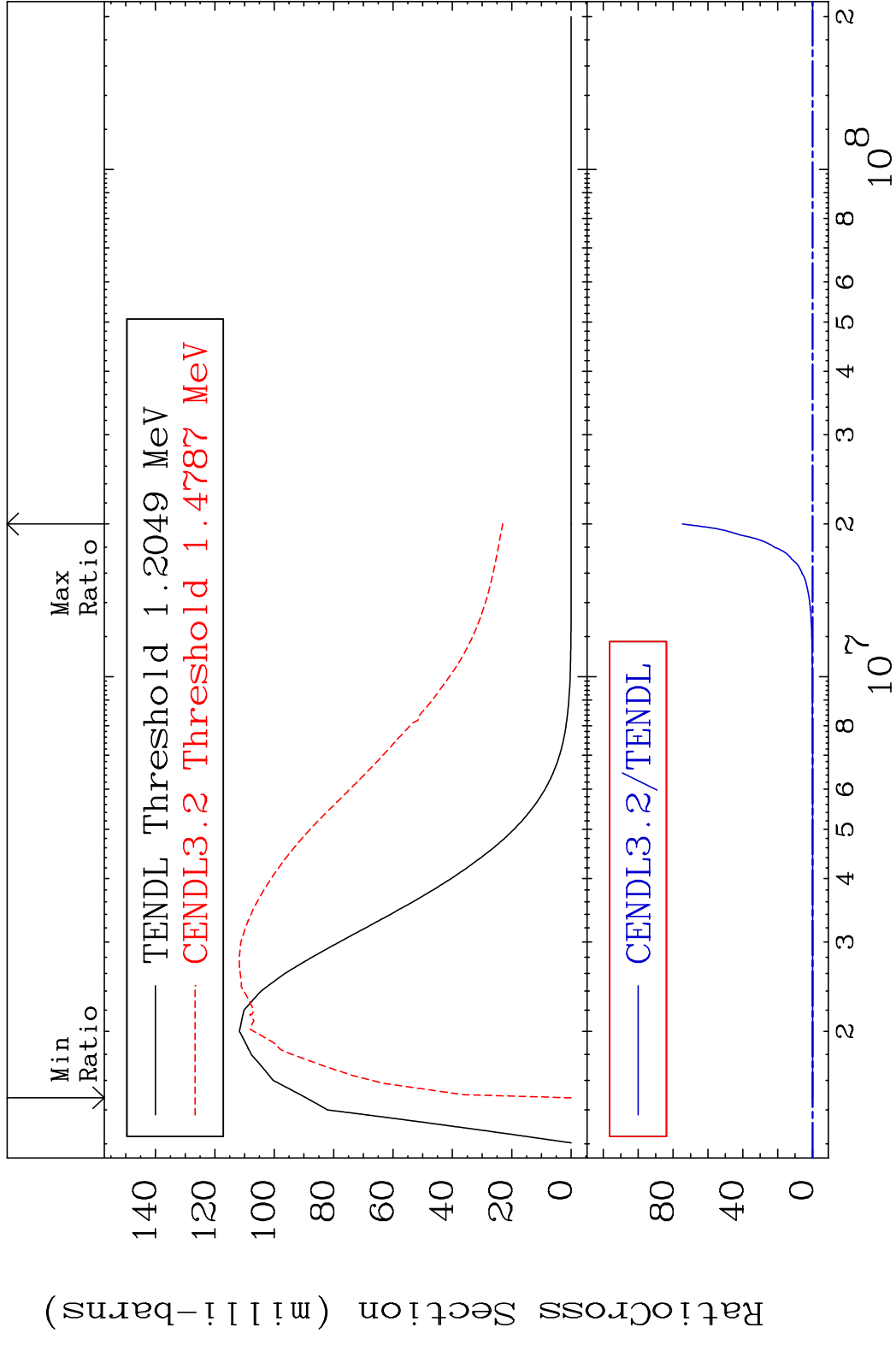
MAT 2834 MT= 57 (n, n') Level 28-Ni-61
 Cross Section -100.0 To 9999. %



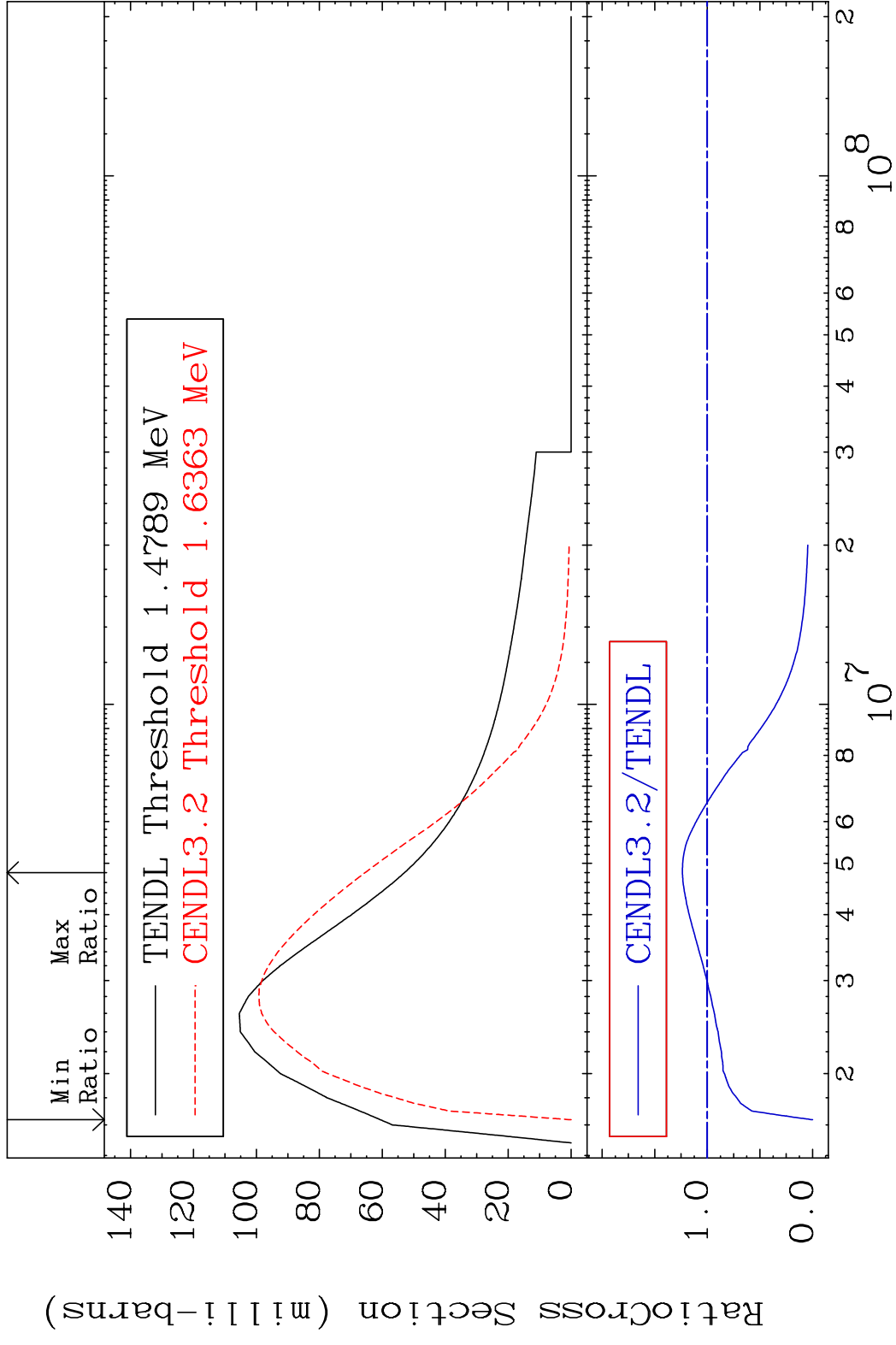
MAT 2834 MT= 58 (n, n') Level 28-Ni-61
 Cross Section -100.0 To 9999. %



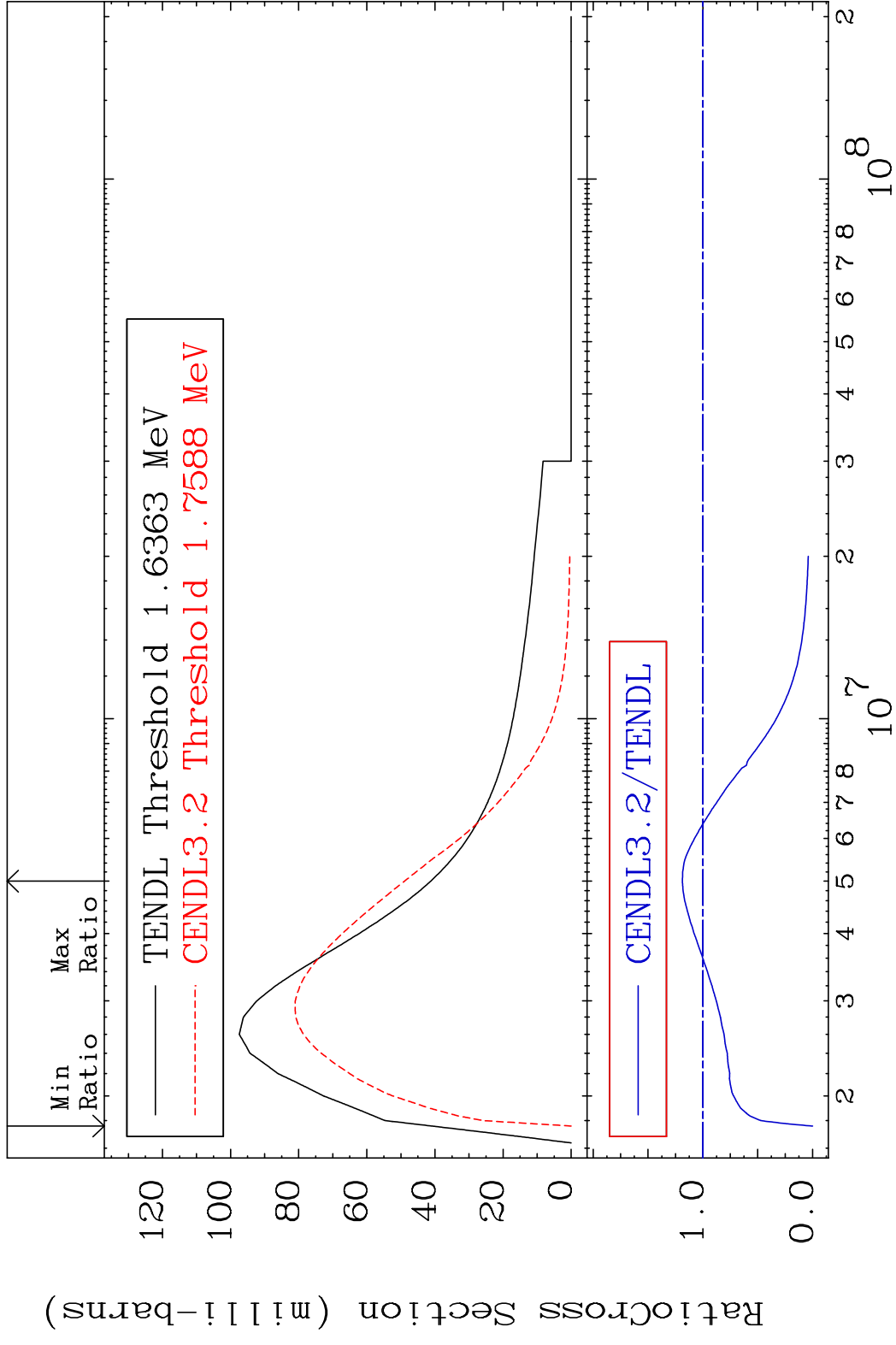
MAT 2834 MT= 59 (n, n') Level 28-Ni-61
 Cross Section -100.0 To 9999. %



MAT 2834 MT= 60 (n,n') Level 28-Ni-61
 Cross Section -100.0 To 23.72 %

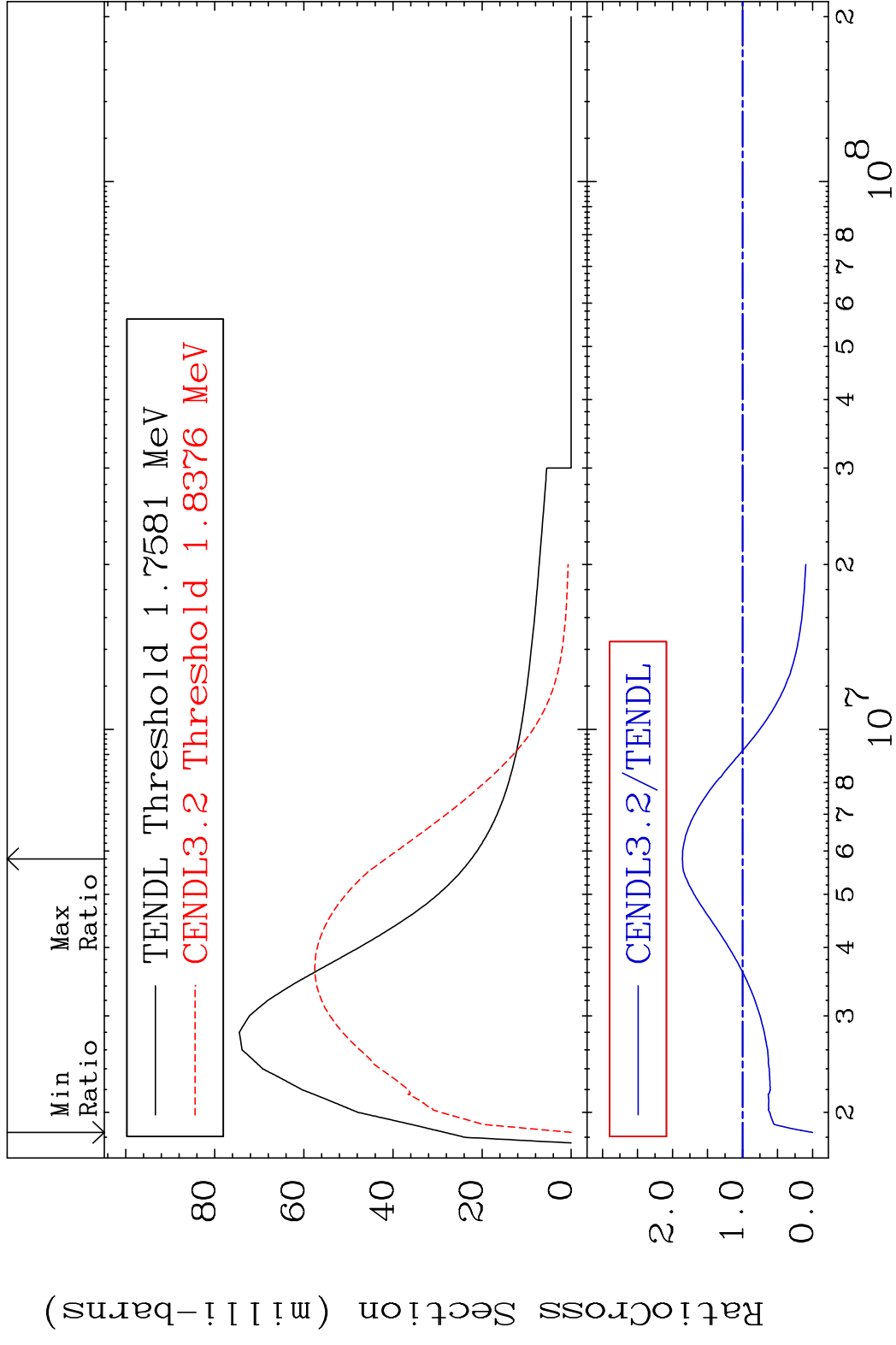


MAT 2834 MT= 61 (n,n') Level 28-Ni-61
 Cross Section -100.0 To 18.72 %

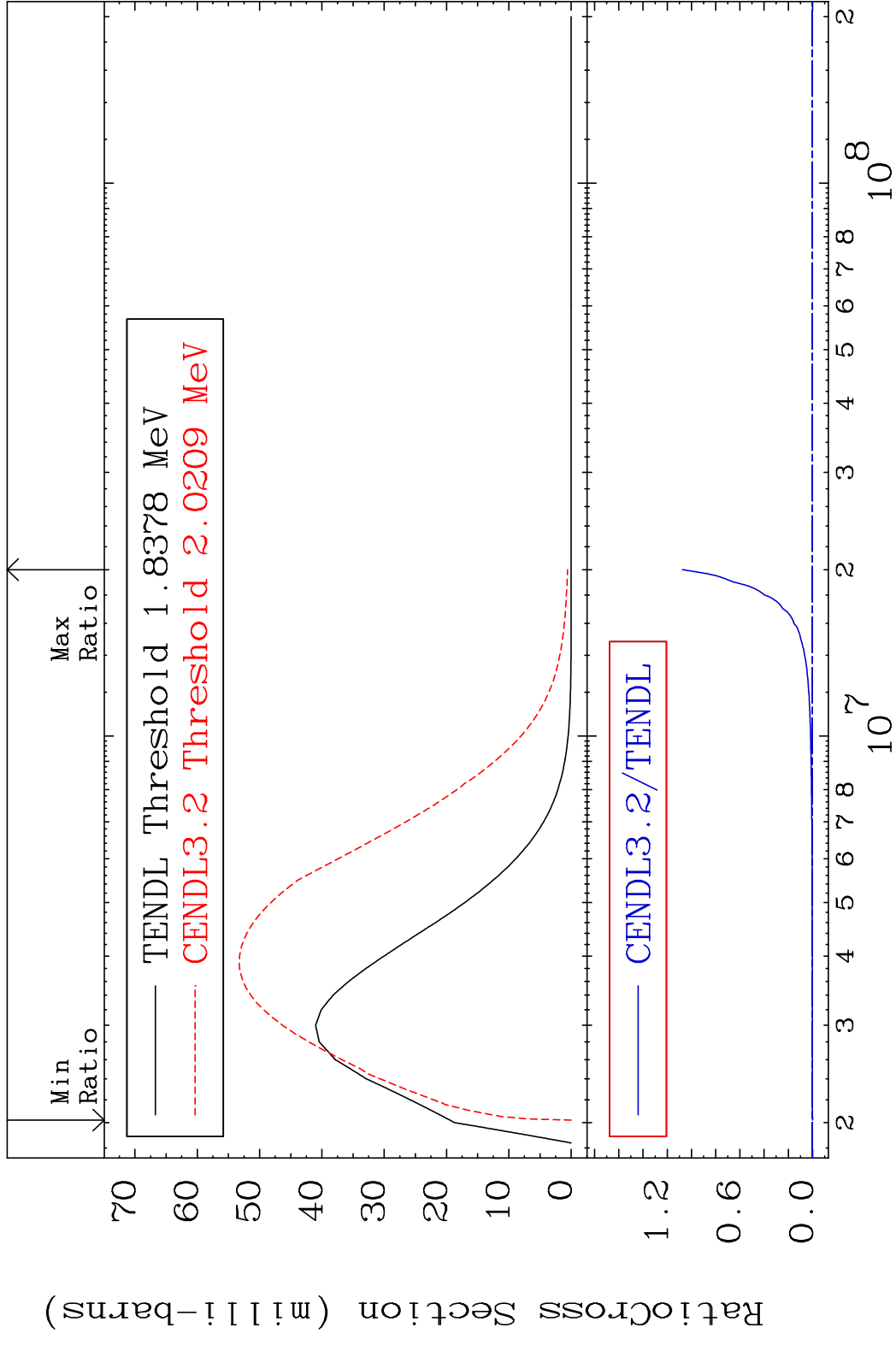


17 Incident Energy (eV) 28-Ni-61

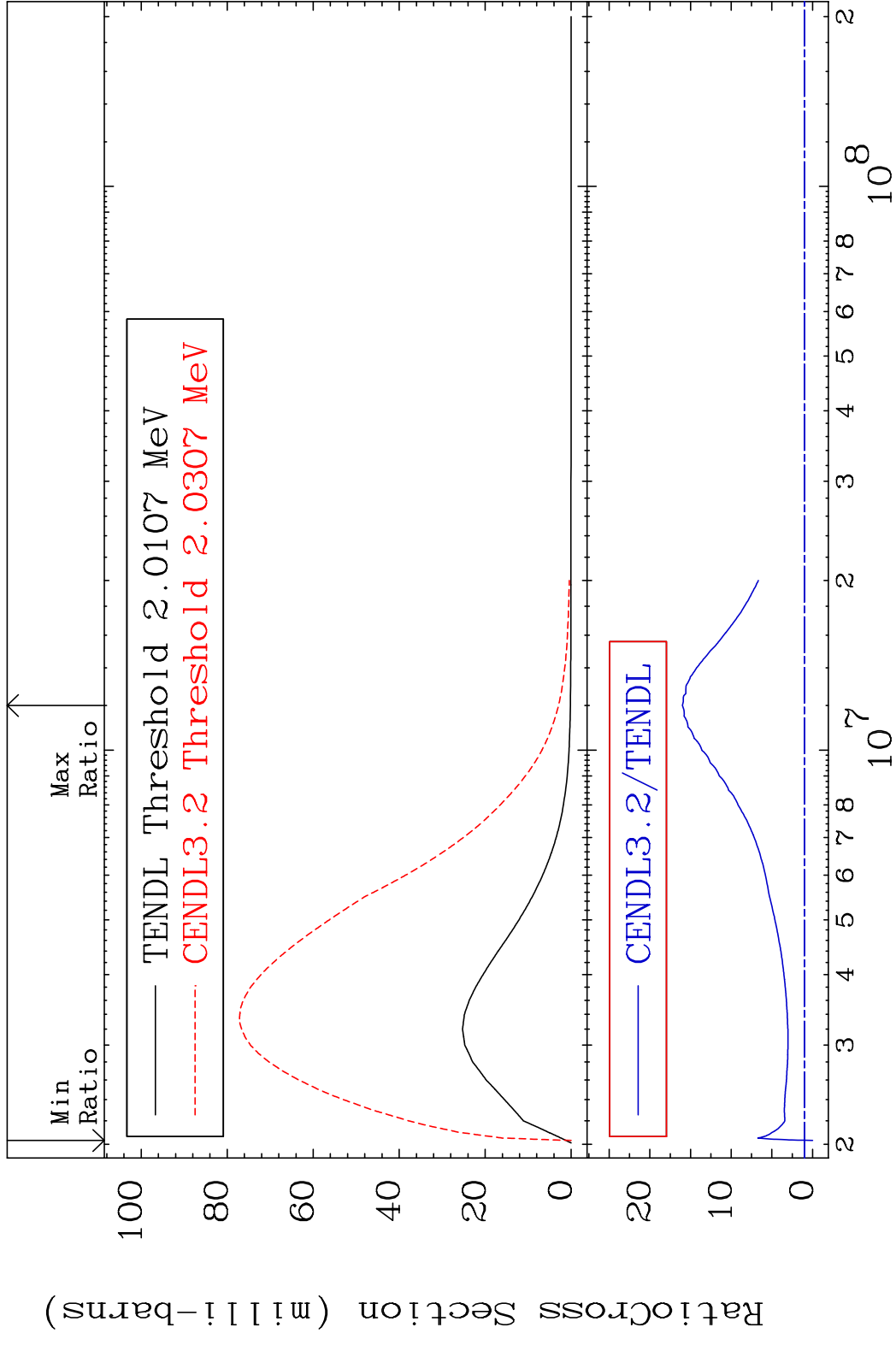
MAT 2834 MT= 62 (n, n') Level 28-Ni-61
 Cross Section -100.0 To 85.94 %



MAT 2834 MT= 63 (n, n') Level 28-Ni-61
 Cross Section -100.0 To 9999. %



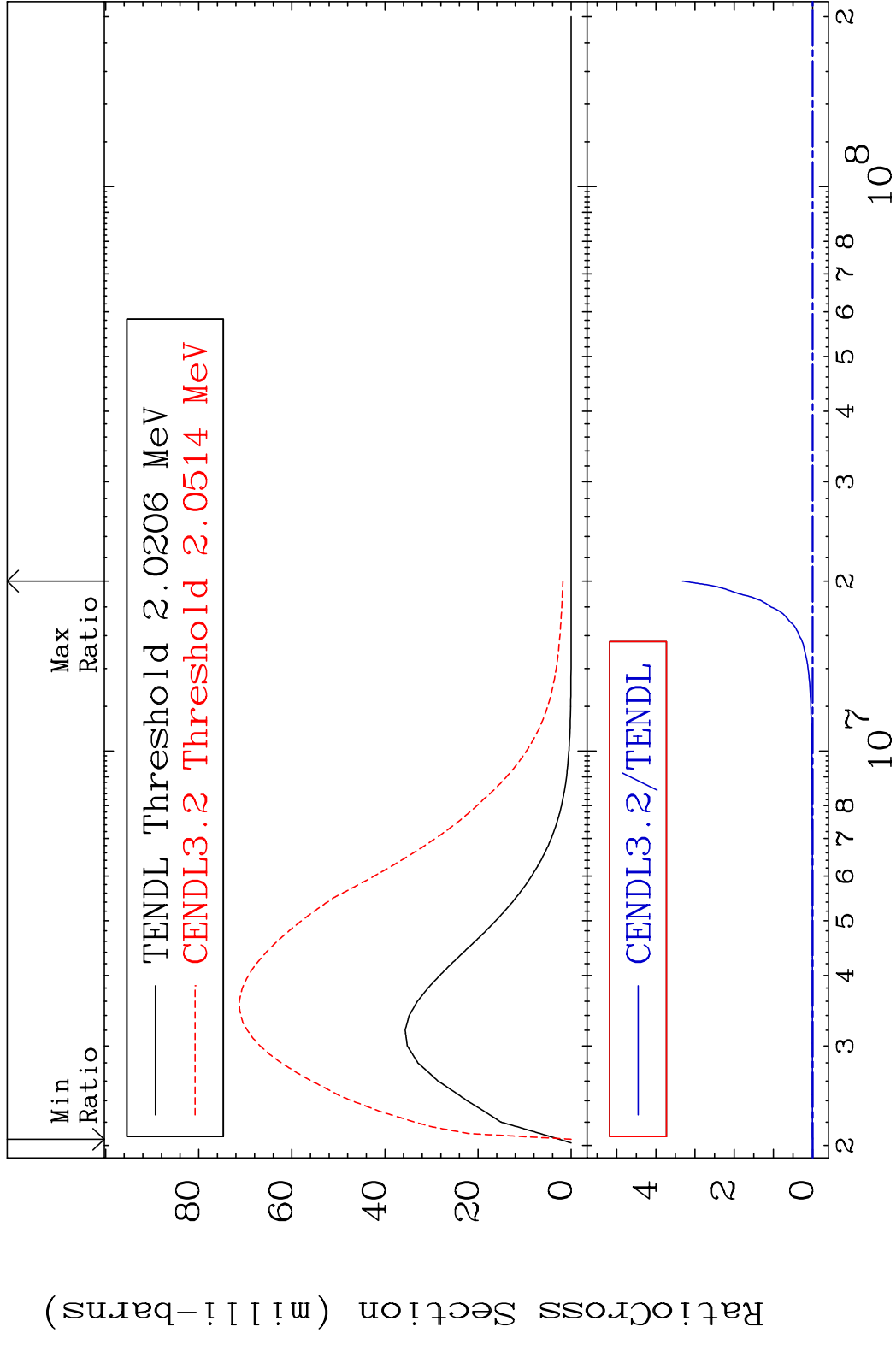
MAT 2834 MT= 64 (n, n') Level 28-Ni-61
 Cross Section -100.0 To 1501. %



20

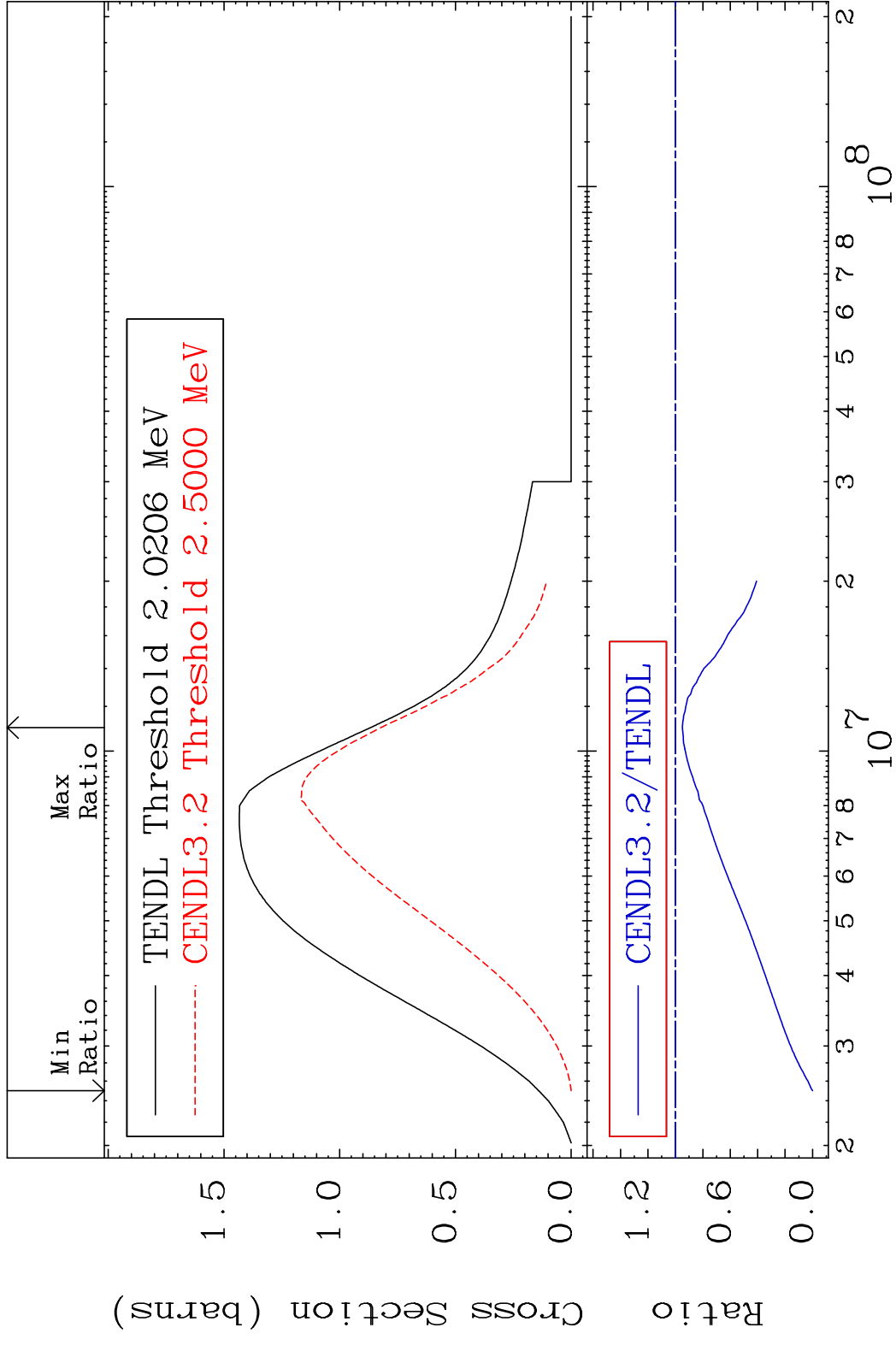
Incident Energy (eV) 28-Ni-61

MAT 2834 MT= 65 (n, n') Level 28-Ni-61
 Cross Section -100.0 To 9999. %



21 Incident Energy (eV) 28-Ni-61

MAT 2834 (n,n') Continuum 28-Ni-61
 Cross Section -100.0 To -5.088%

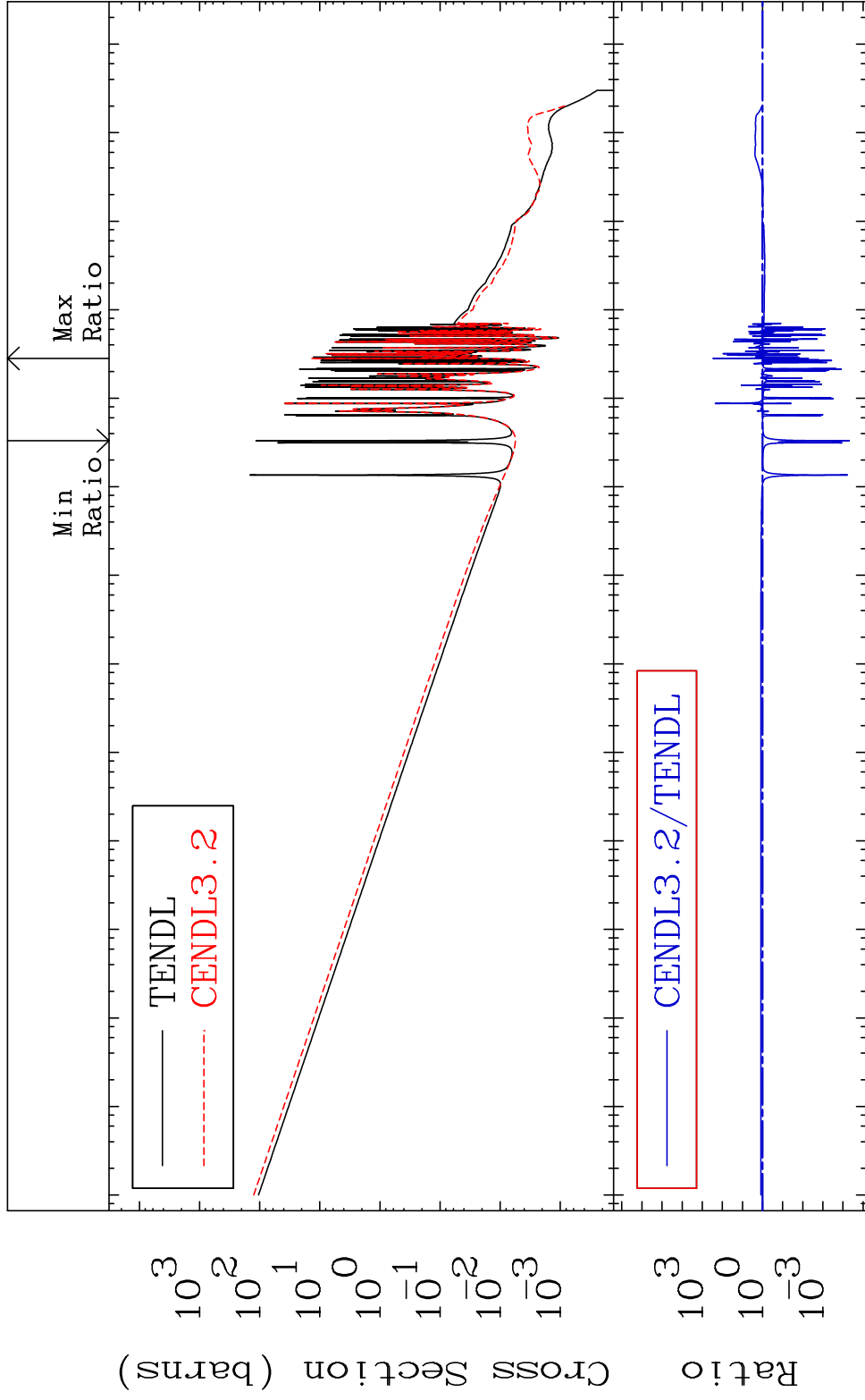


MAT 2834

(n, γ)

28-Ni-61

Cross Section -100.0 To 9999. %

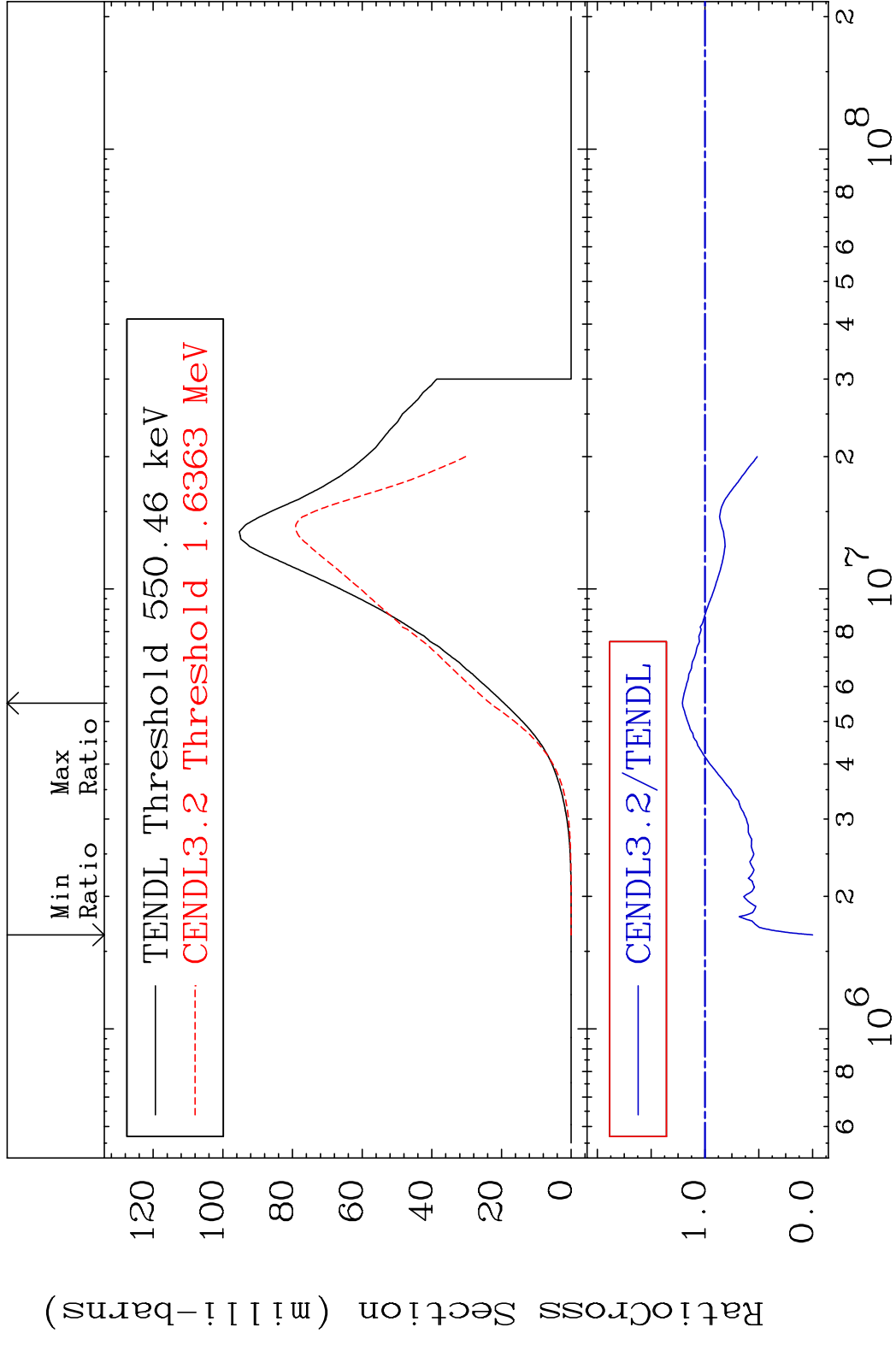


23

Incident Energy (eV)

28-Ni-61

MAT 2834 (n,p) 28-Ni-61
 Cross Section -100.0 To 20.93 %

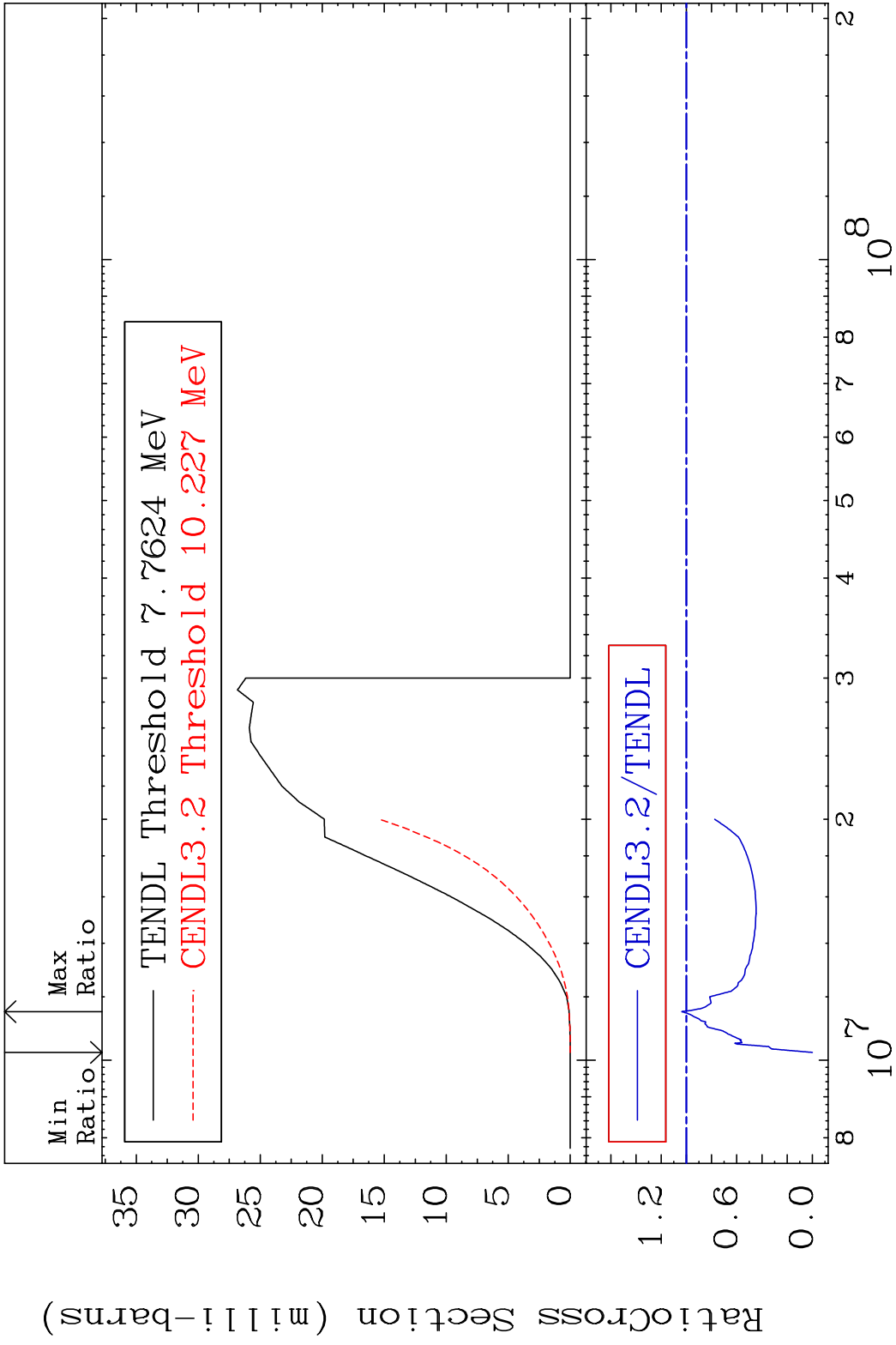


MAT 2834

(n,d)

28-Ni-61

Cross Section -100.0 To 3.692 %

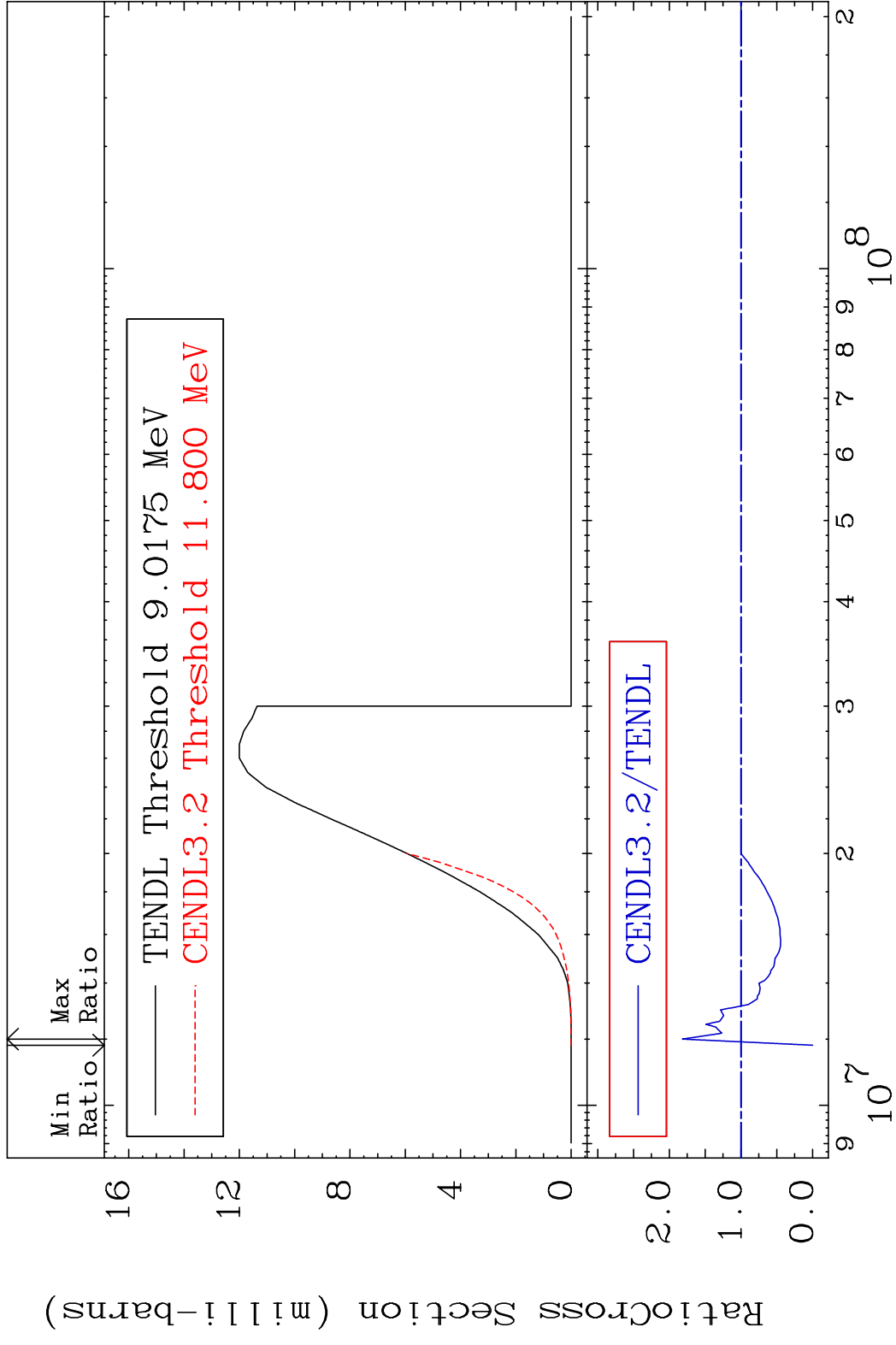


25

Incident Energy (eV)

28-Ni-61

MAT 2834 (n, t) 28-Ni-61
 Cross Section -100.0 To 81.80 %



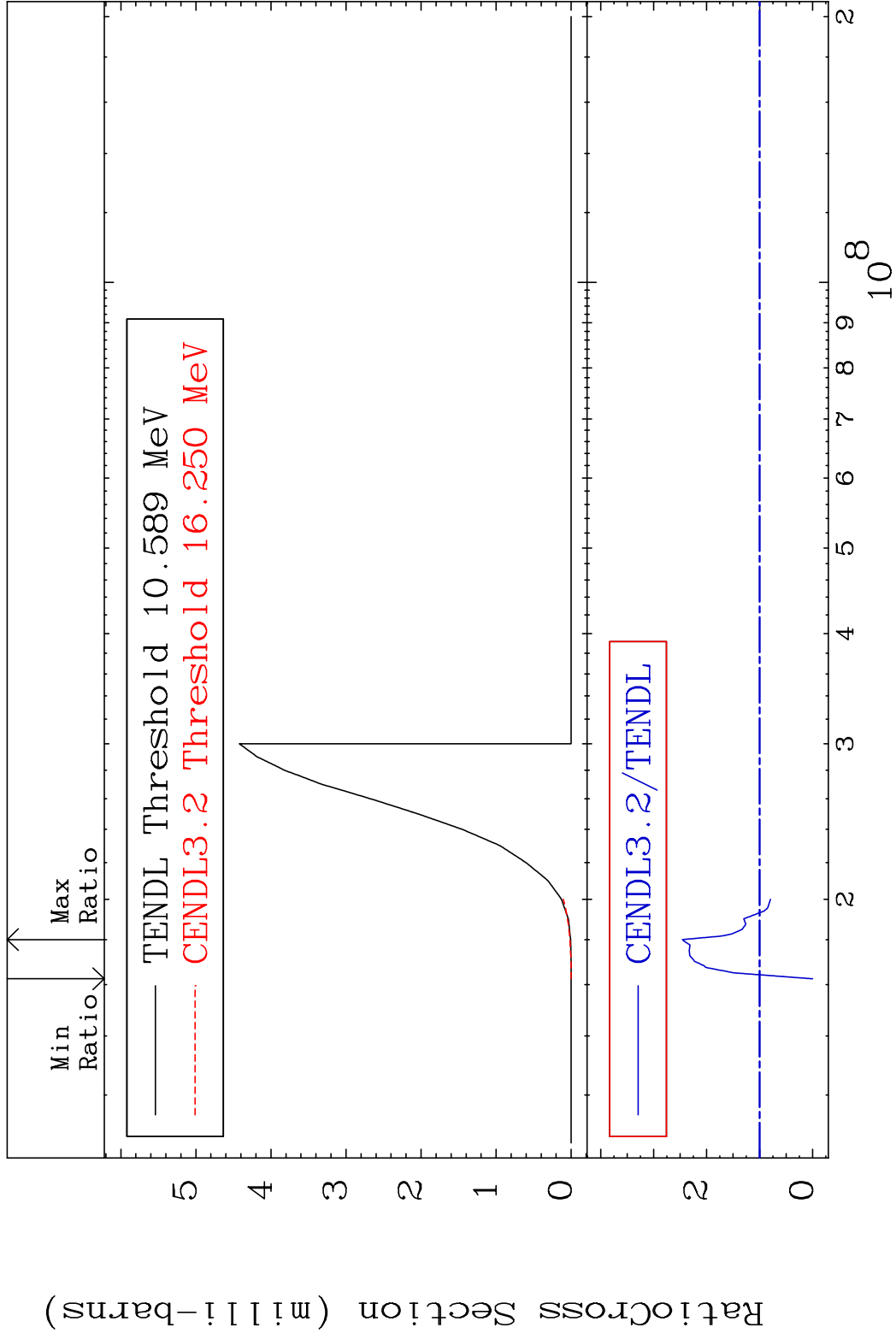
26 28-Ni-61

MAT 2834

(n, He-3)

²⁸Ni-61

Cross Section -100.0 To 145.8 %



27

Incident Energy (eV)

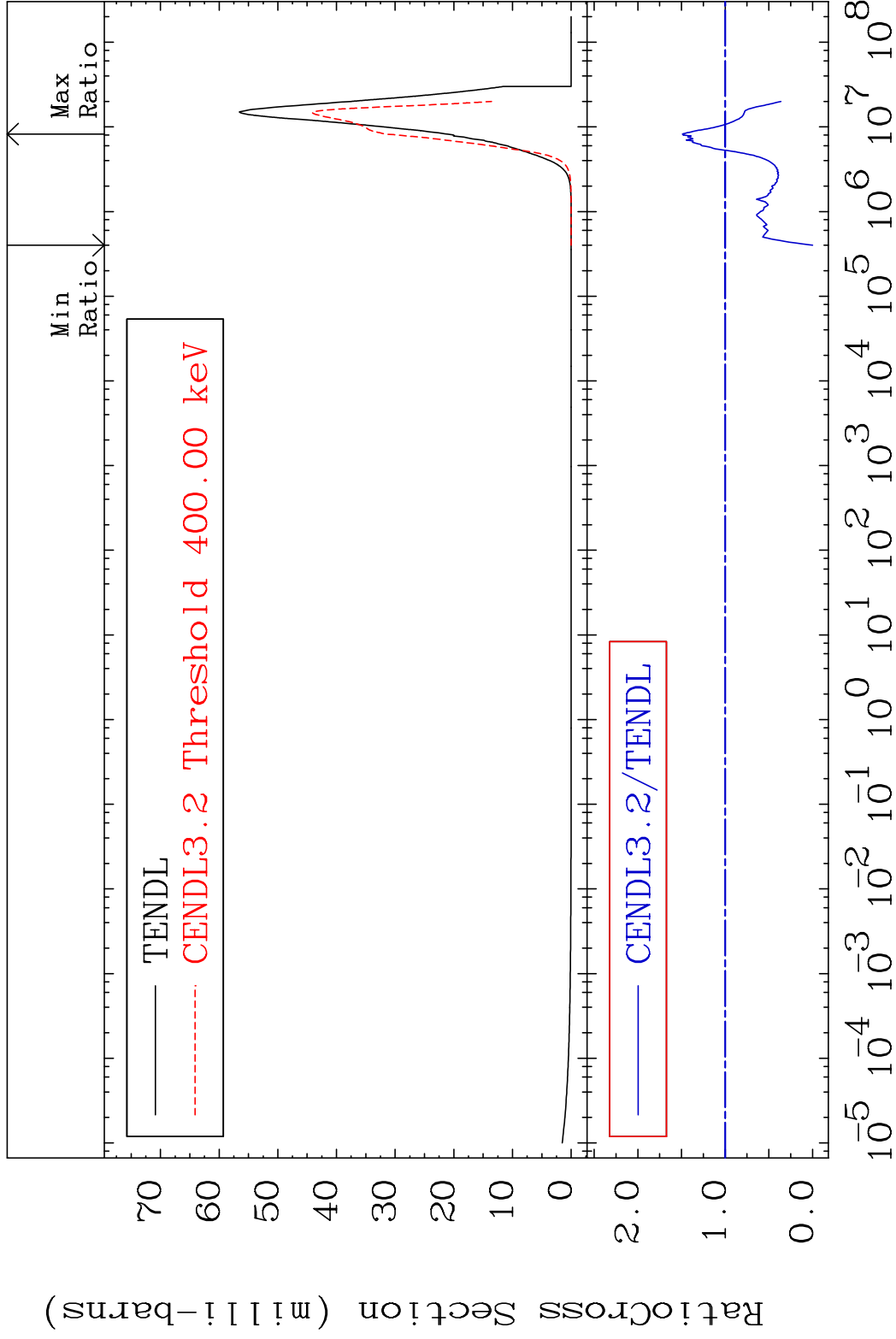
²⁸Ni-61

MAT 2834

(n, α)

28-Ni-61

Cross Section -100.0 To 49.05 %



28

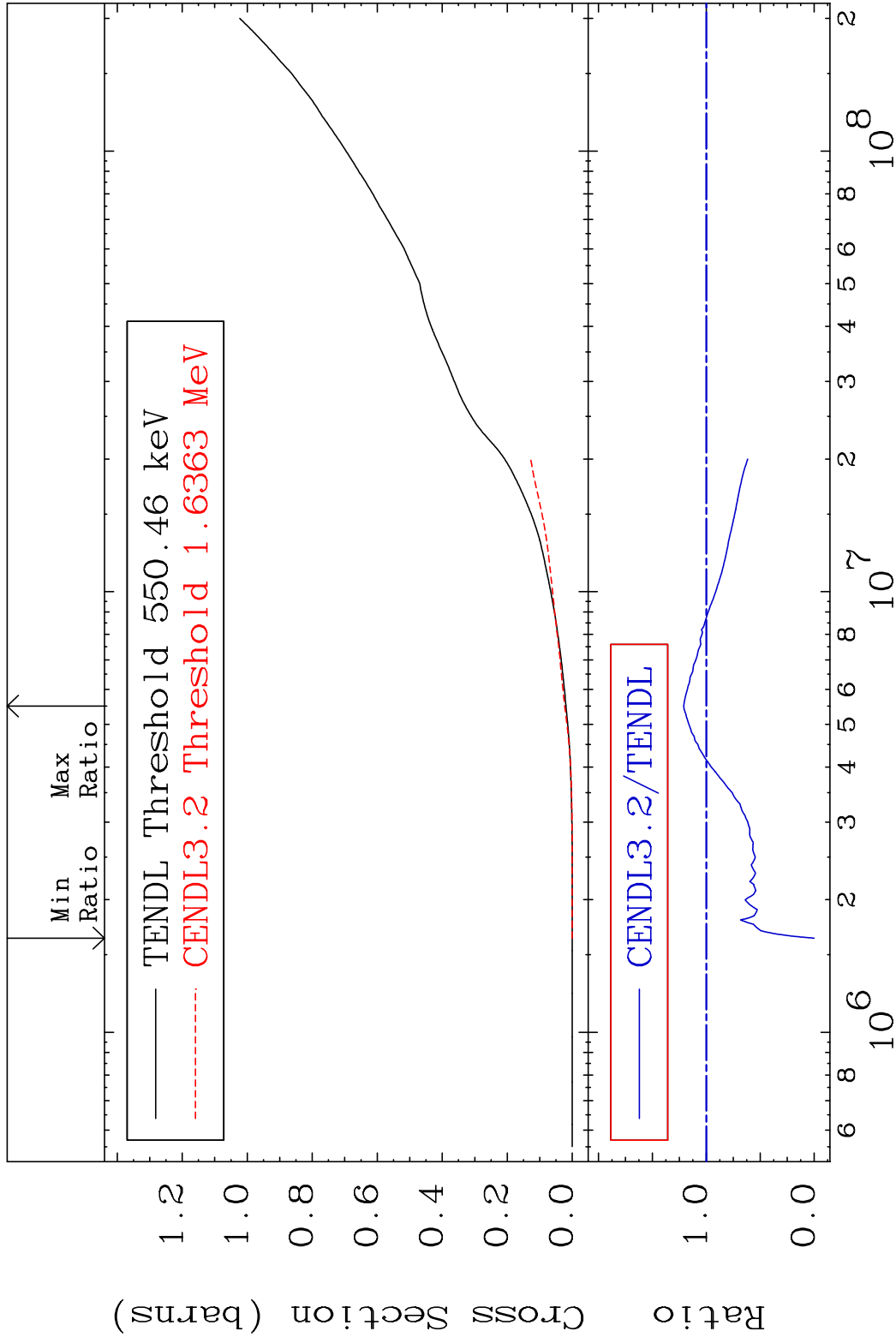
Incident Energy (eV)

28-Ni-61

MAT 2834

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

Cross Section -100.0 To 20.93 %



29

Incident Energy (eV)

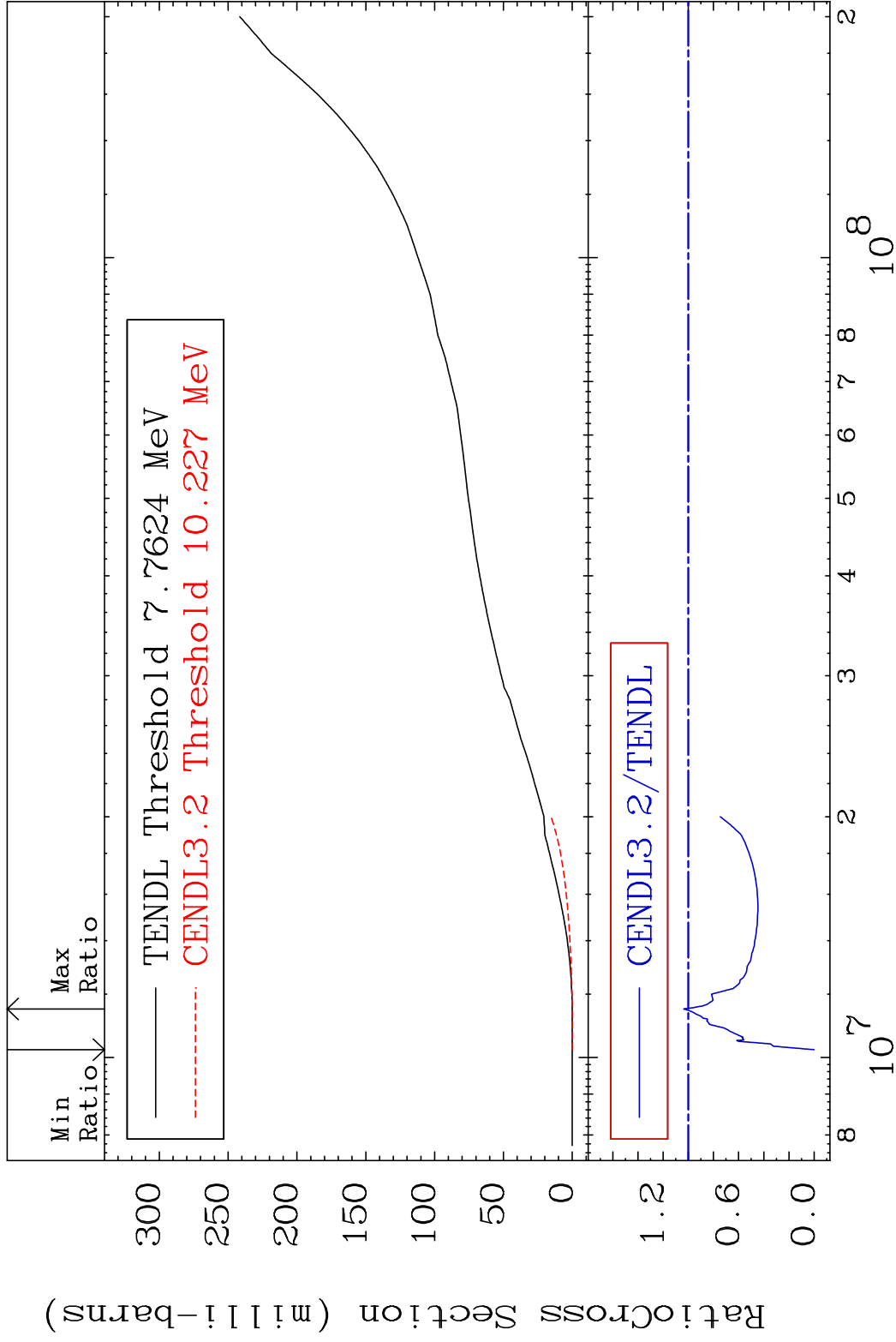
$^{28}\text{Ni-61}$

MAT 2834

Deuterium Production

²⁸Ni-61

Cross Section -100.0 To 3.692 %

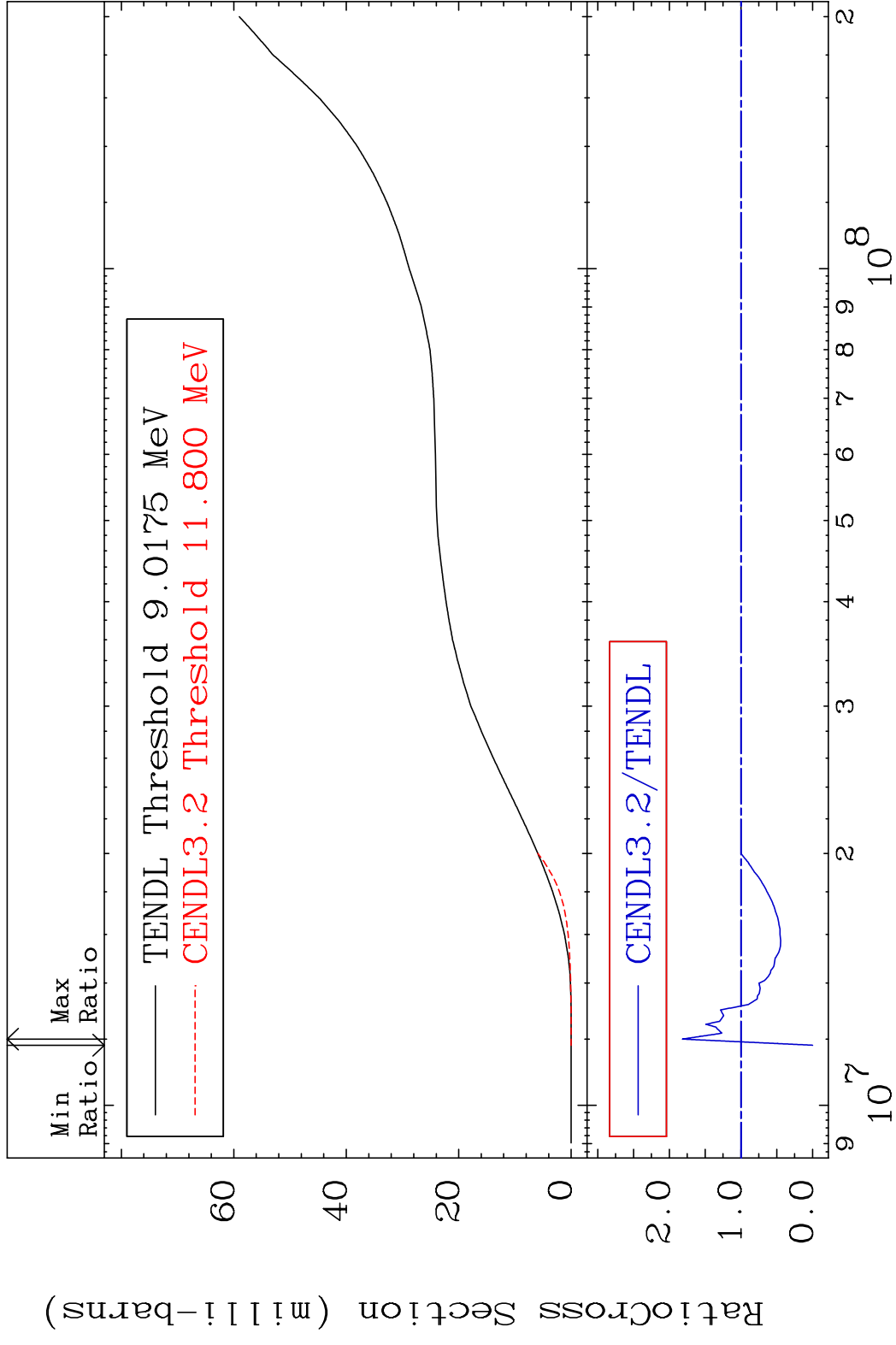


30

Incident Energy (eV)

²⁸Ni-61

MAT 2834 Tritium Production 28-Ni-61
 Cross Section -100.0 To 81.80 %



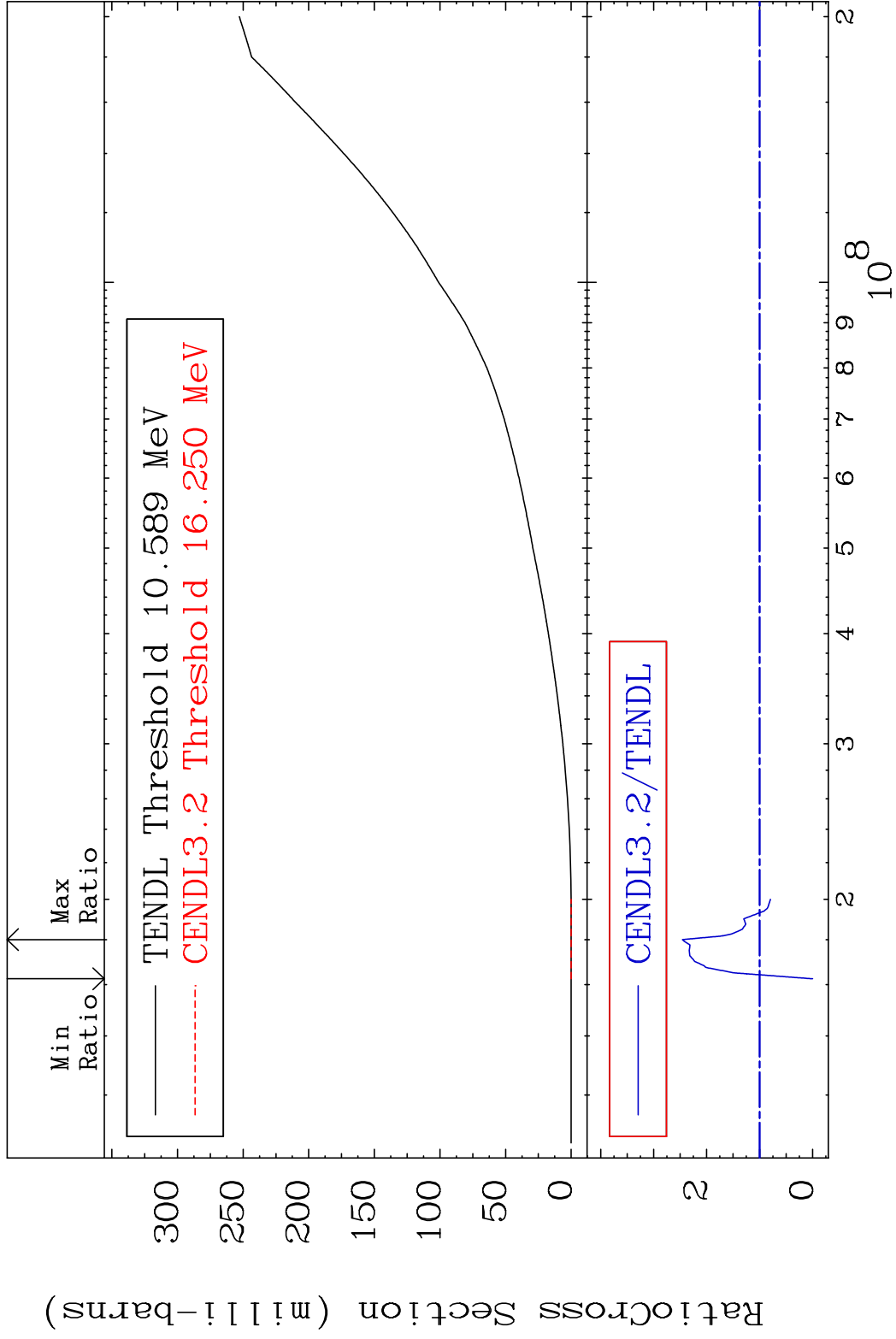
31 Incident Energy (eV) 28-Ni-61

MAT 2834

He-3 Production

²⁸Ni-61

Cross Section -100.0 To 145.8 %



32

Incident Energy (eV)

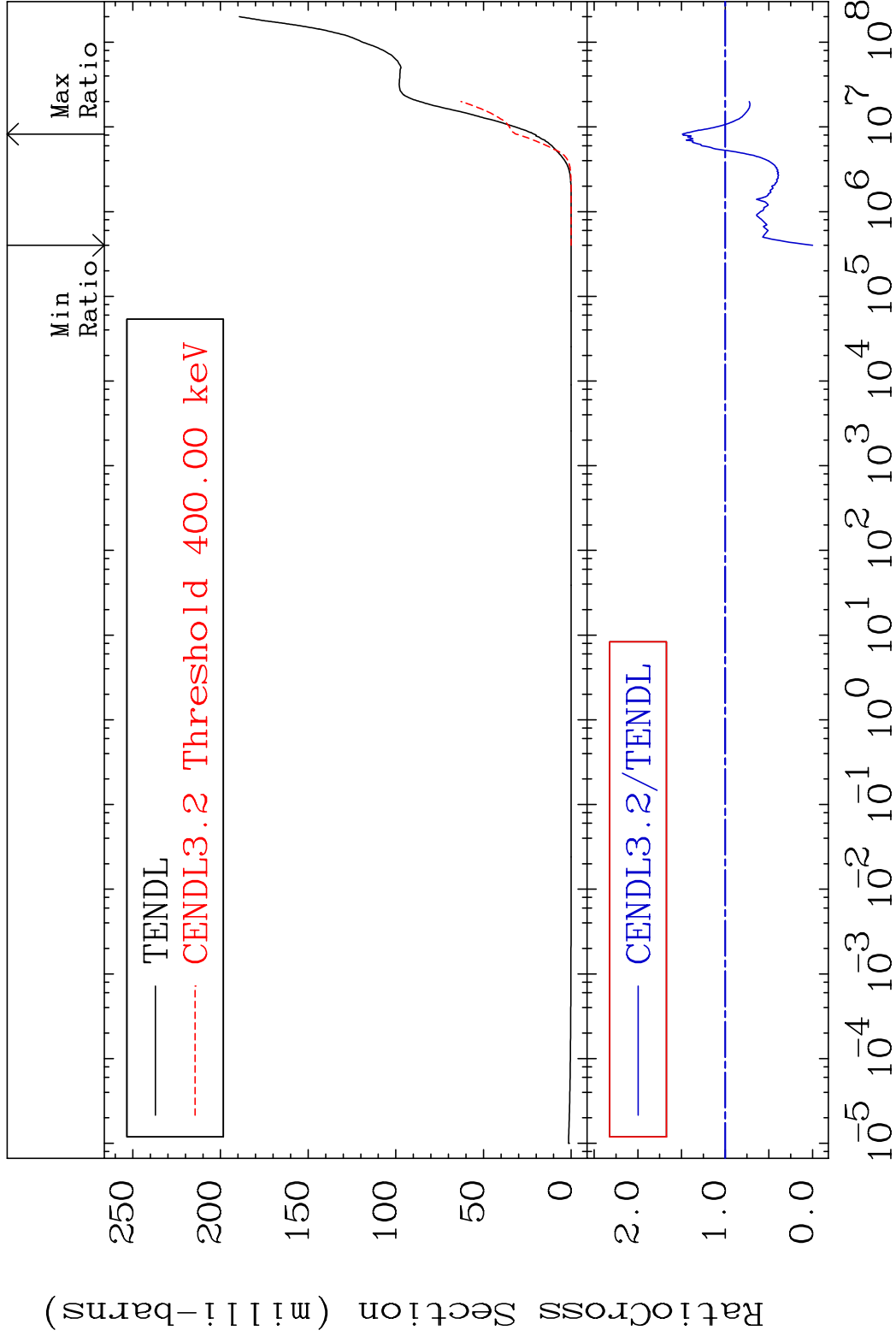
²⁸Ni-61

MAT 2834

He-4 Production

28-Ni-61

Cross Section -100.0 To 49.05 %

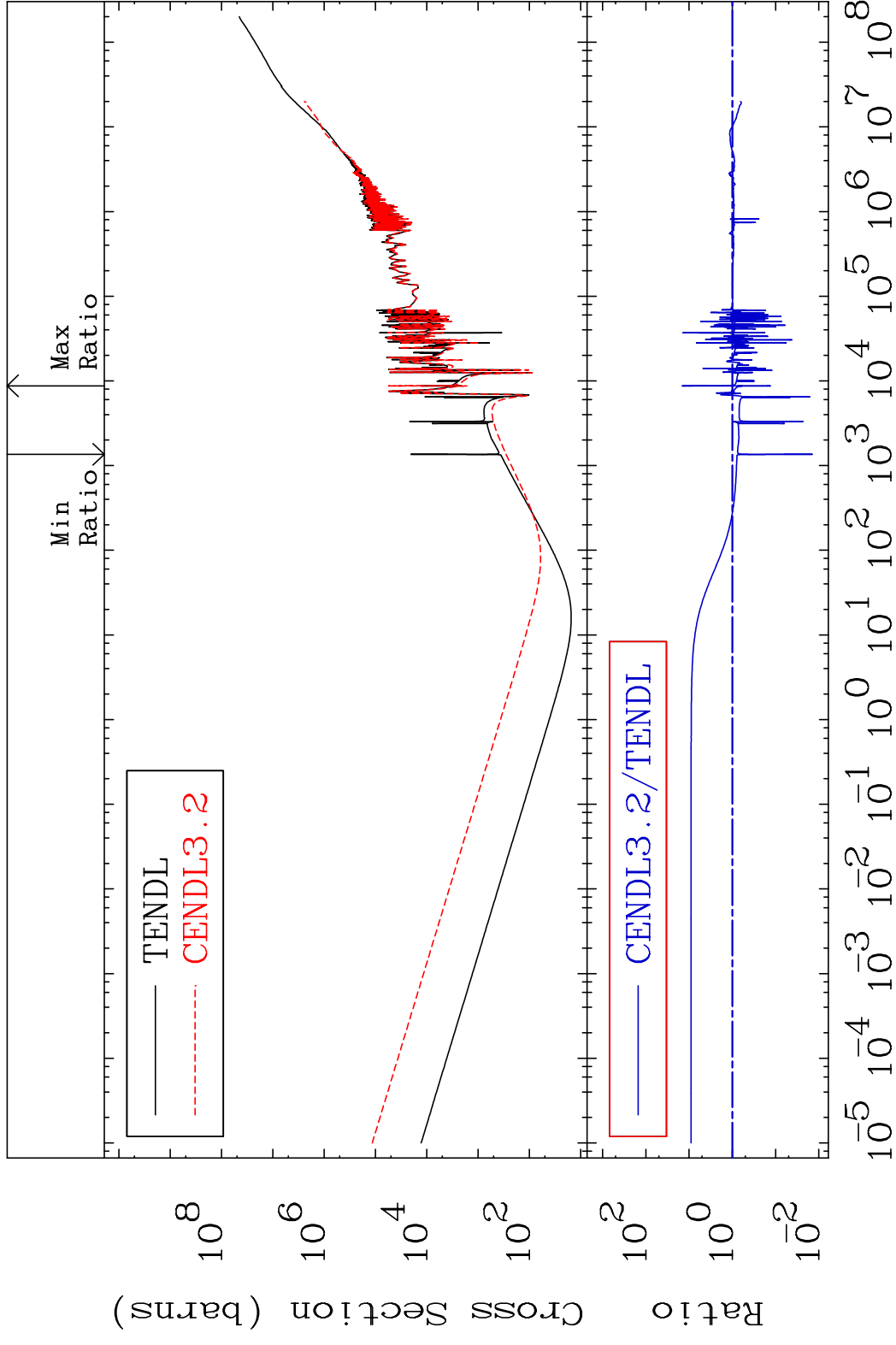


33

Incident Energy (eV)

28-Ni-61

MAT 2834 Kerma total (eV-barns) 28-Ni-61
 Cross Section -98.60 To 1328. %

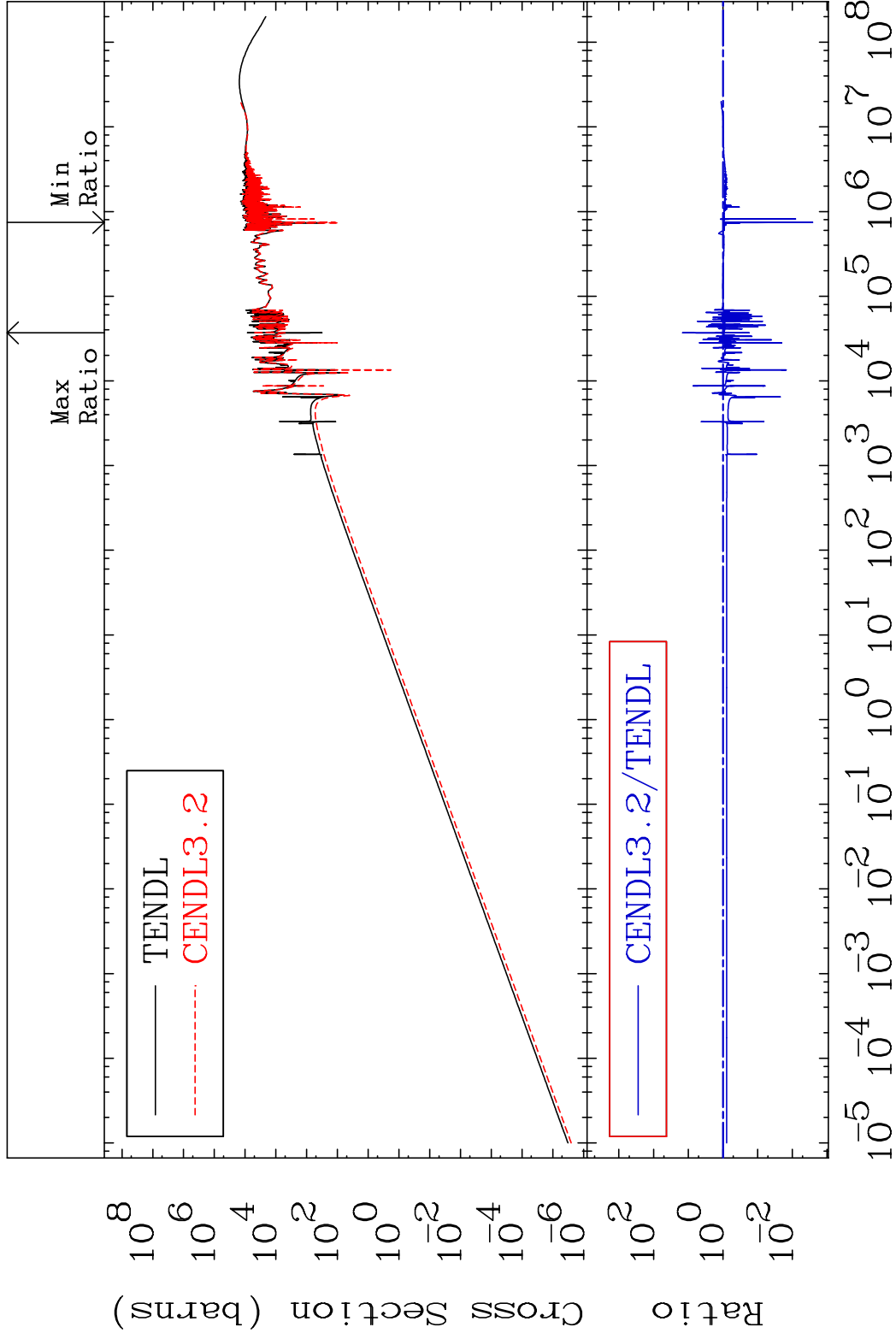


34 Incident Energy (eV) 28-Ni-61

MAT 2834

Kerma elastic
Cross Section

28-Ni-61
-99.74 To 1376. %

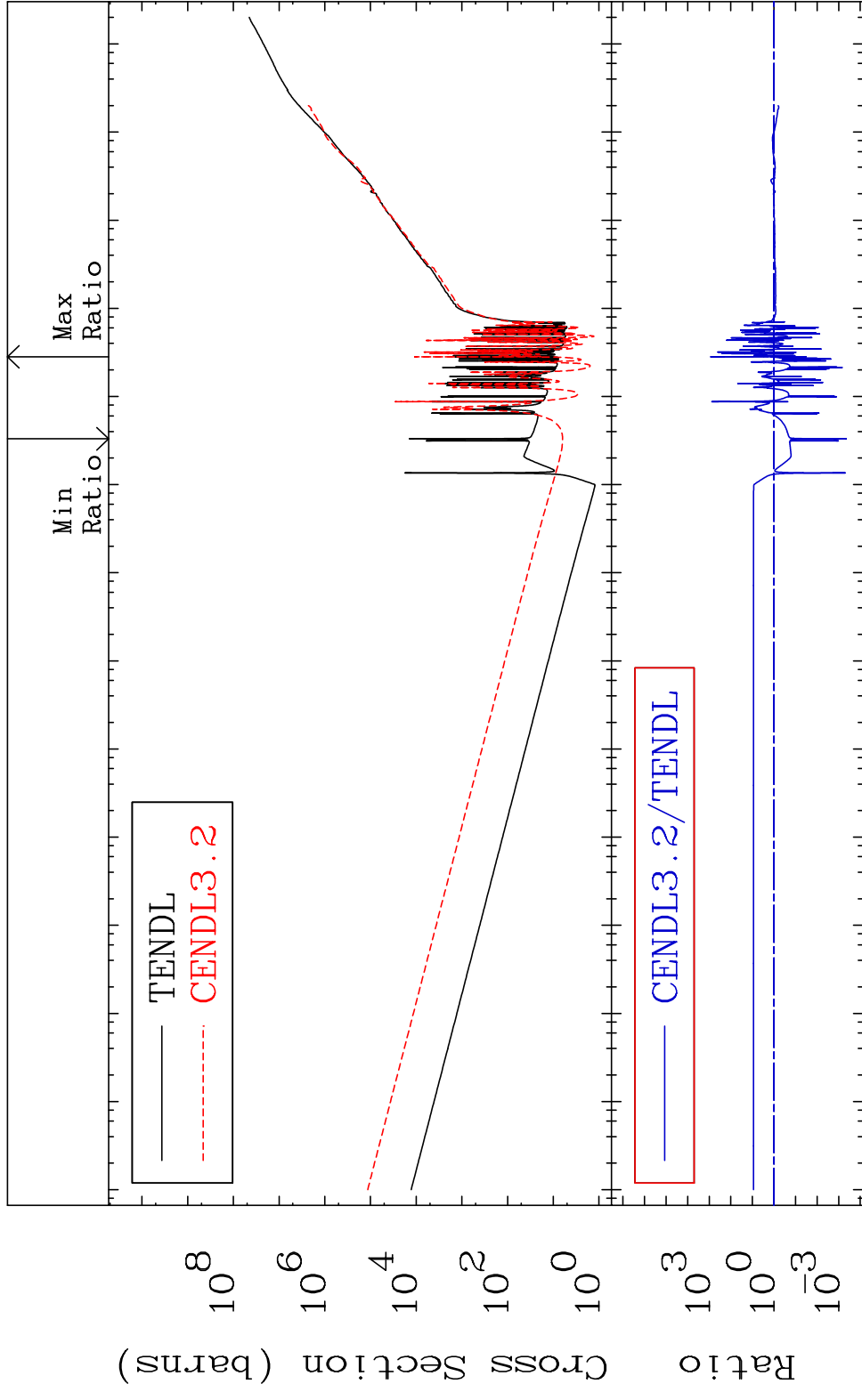


35

Incident Energy (eV)

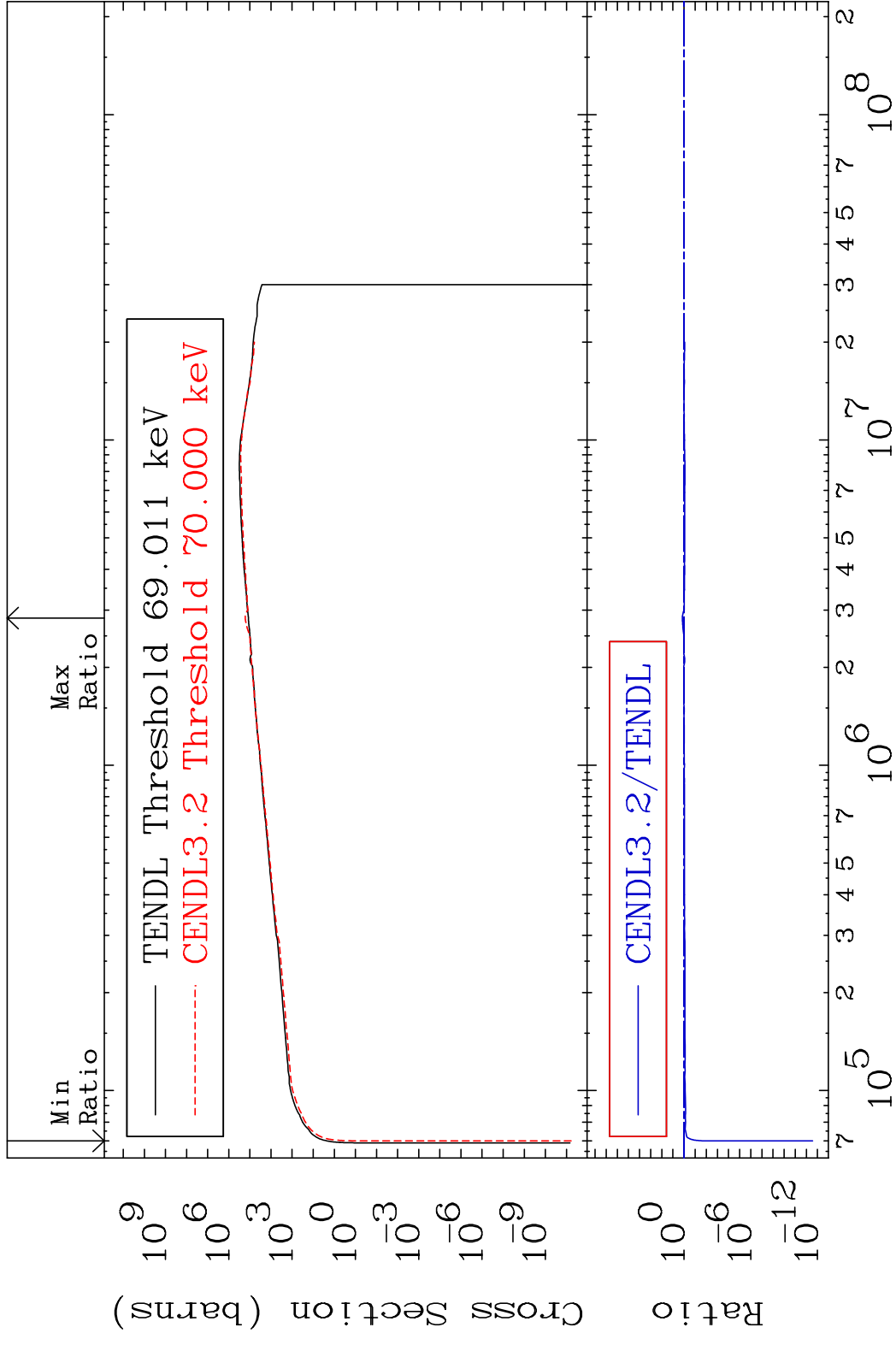
28-Ni-61

MAT 2834 Kerma non-elastic (all but mt2) 28-Ni-61
 Cross Section -99.96 To 9999. %

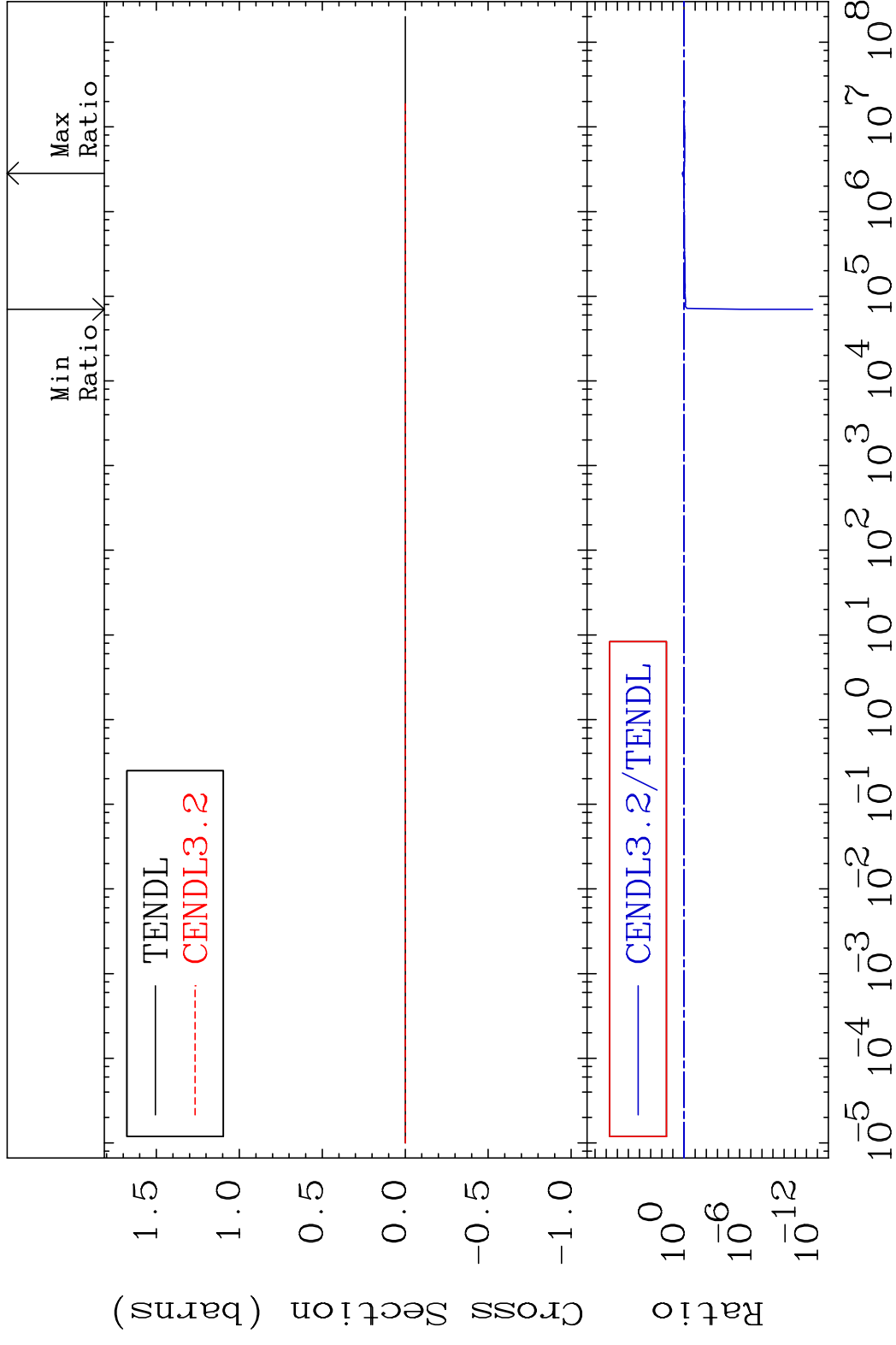


36 Incident Energy (eV) 28-Ni-61

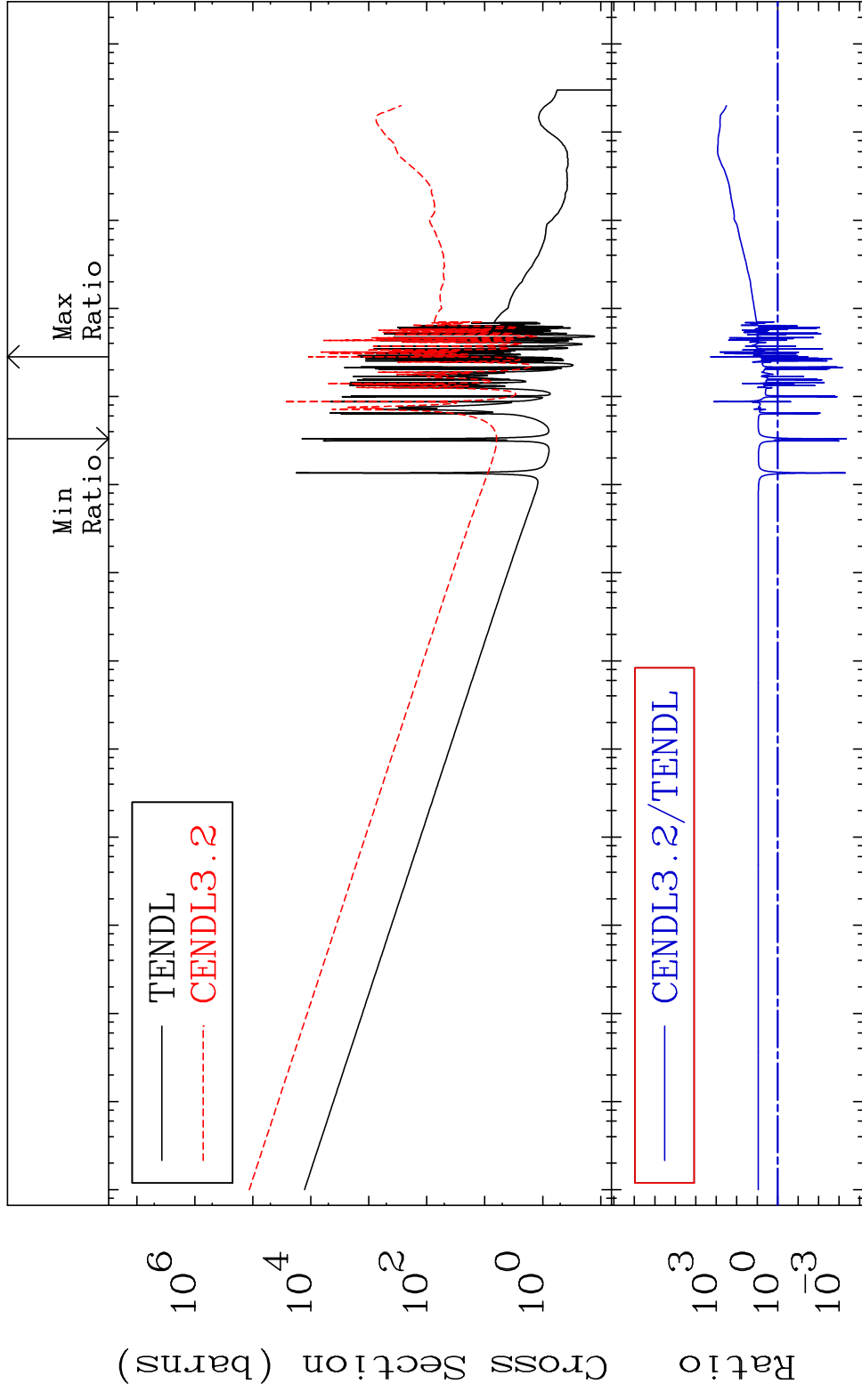
MAT 2834 Kerma inelastic (mt51-91) 28-Ni-61
 Cross Section -100.0 To 41.73 %



MAT 2834 Kerma fission (mt18 or mt19-20-21-38) 28-Ni-61
 Cross Section -100.0 To 41.73 %

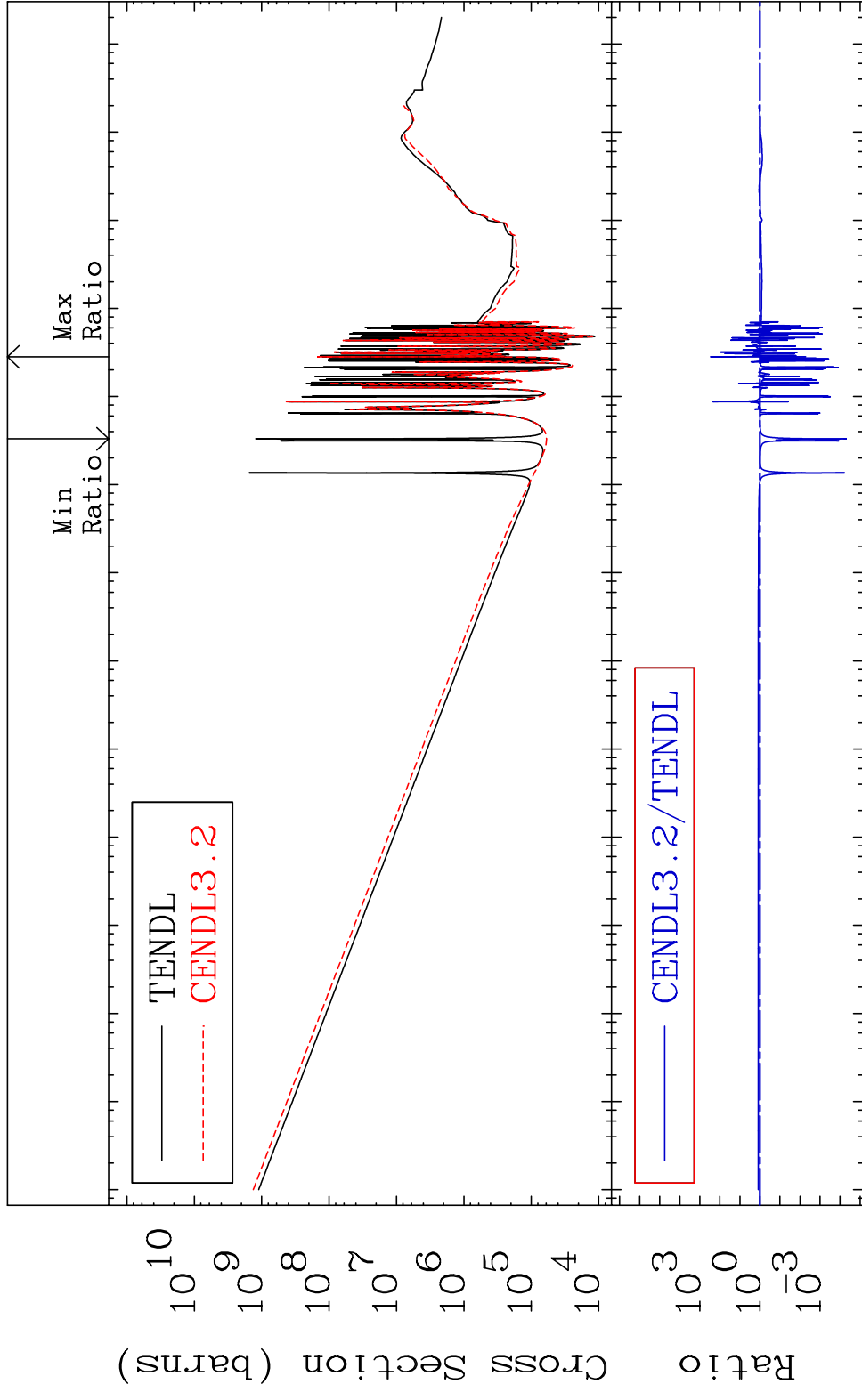


MAT 2834 Kerma capture (mt102) 28-Ni-61
 Cross Section -99.96 To 9999. %



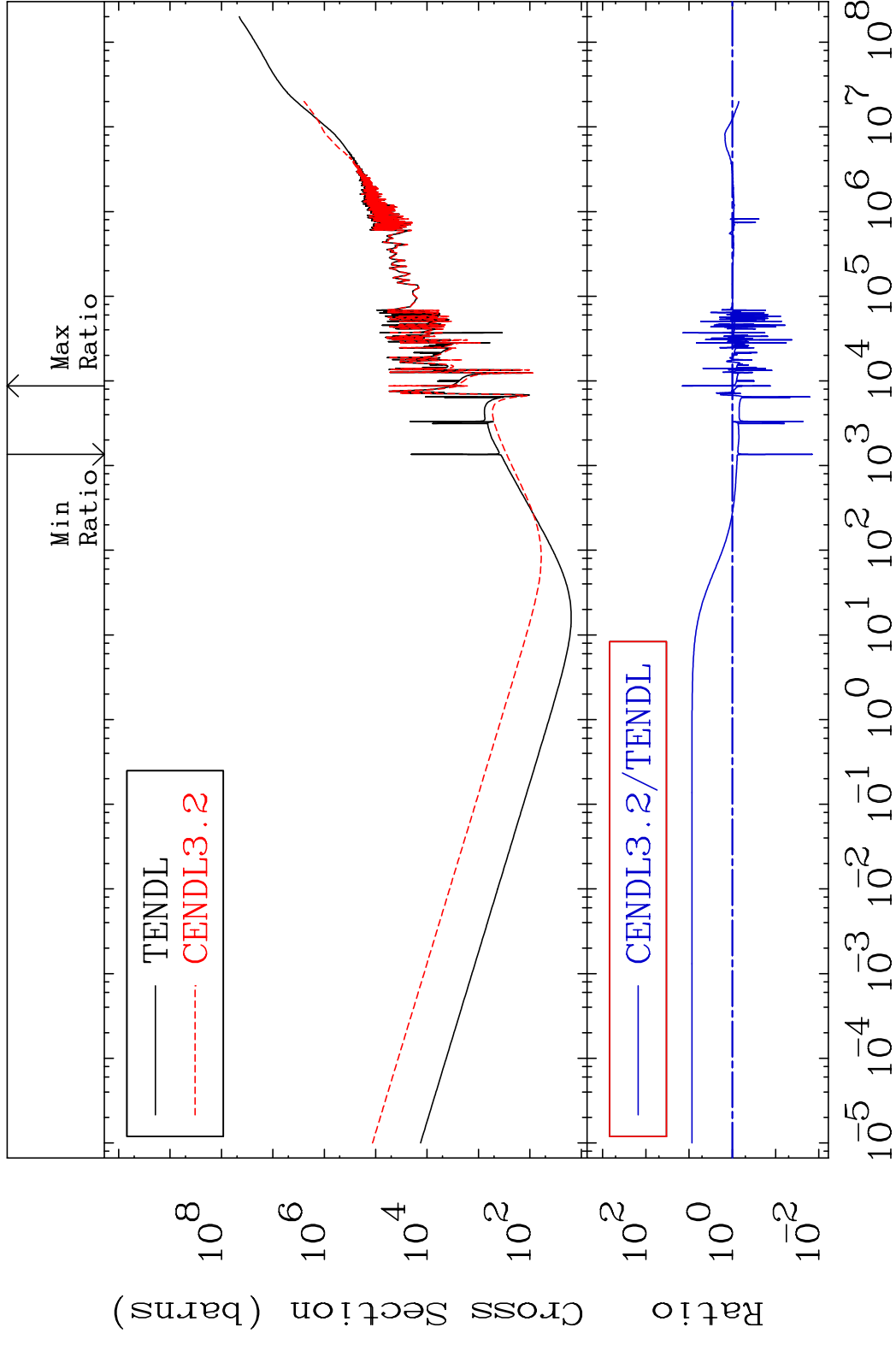
39 Incident Energy (eV) 28-Ni-61

MAT 2834 Total photon (eV-barns) 28-Ni-61
 Cross Section -100.0 To 9999. %



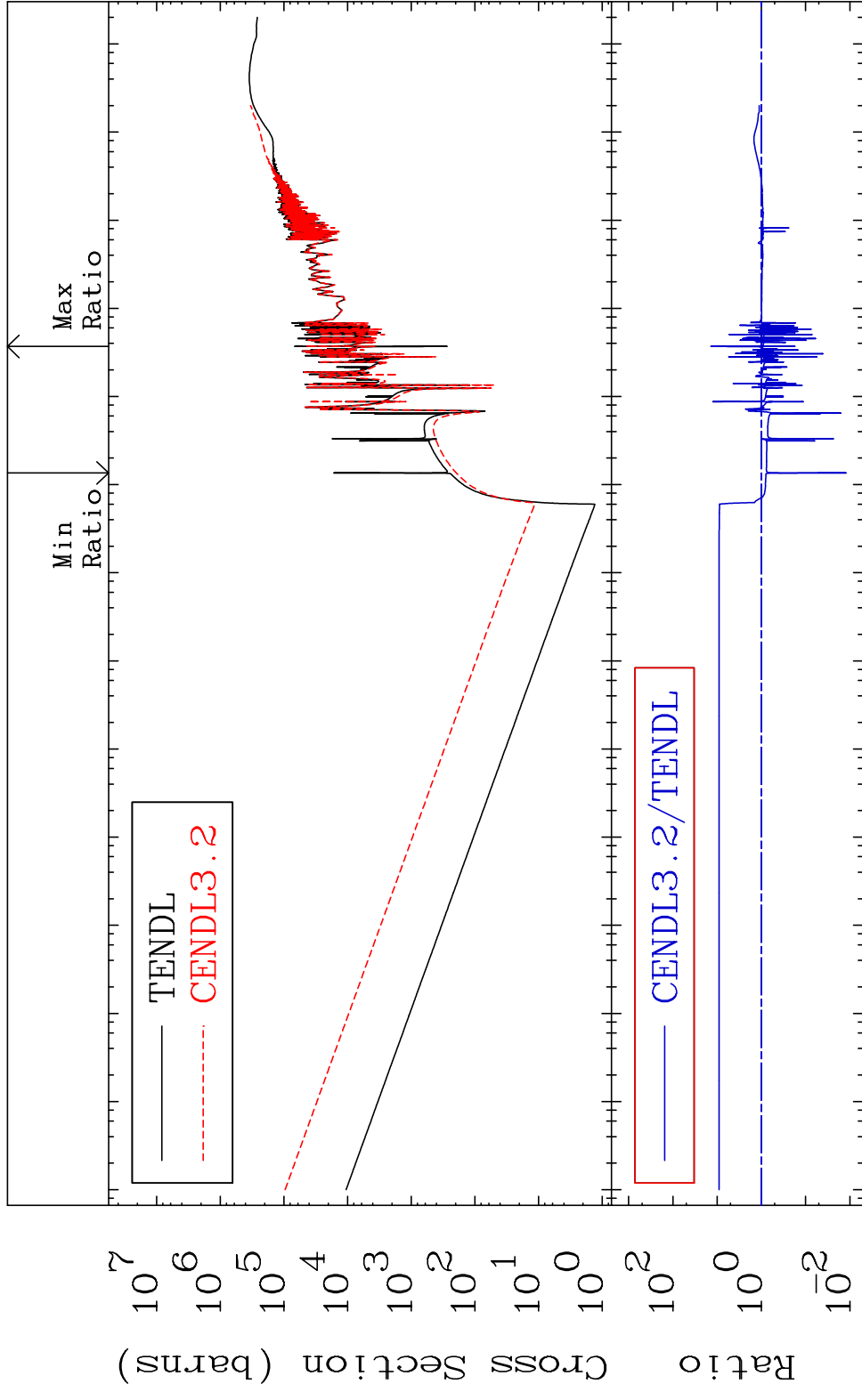
40 Incident Energy (eV) 28-Ni-61

MAT 2834 Total kinematic kerma (high limit) 28-Ni-61
 Cross Section -98.61 To 1328. %



41 Incident Energy (eV) 28-Ni-61

MAT 2834 Dpa total (eV-barns) 28-Ni-61
 Cross Section -98.80 To 1298. %



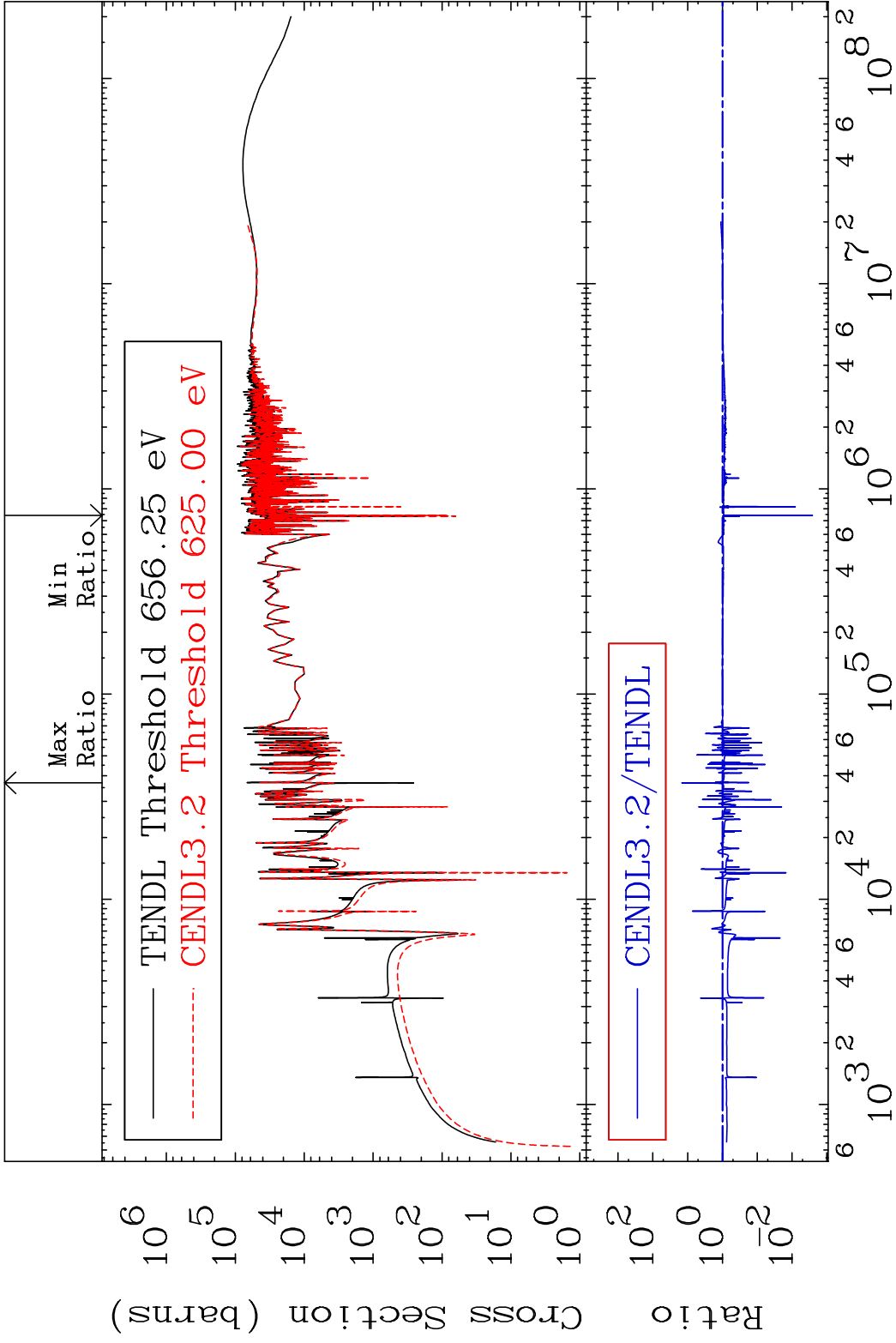
42 Incident Energy (eV) 28-Ni-61

MAT 2834

Dpa elastic (mt2)

28-Ni-61

Cross Section -99.74 To 1376. %

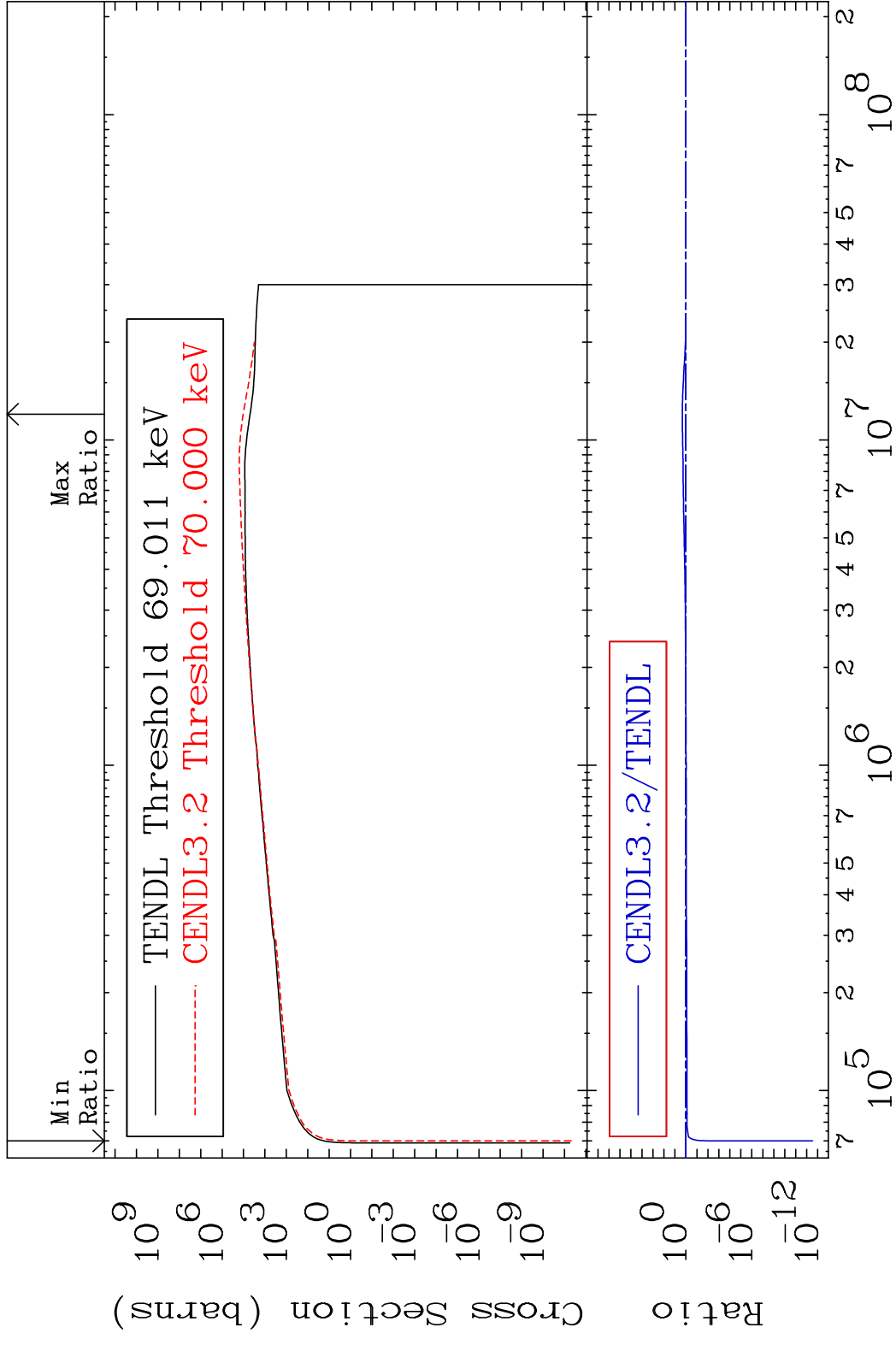


43

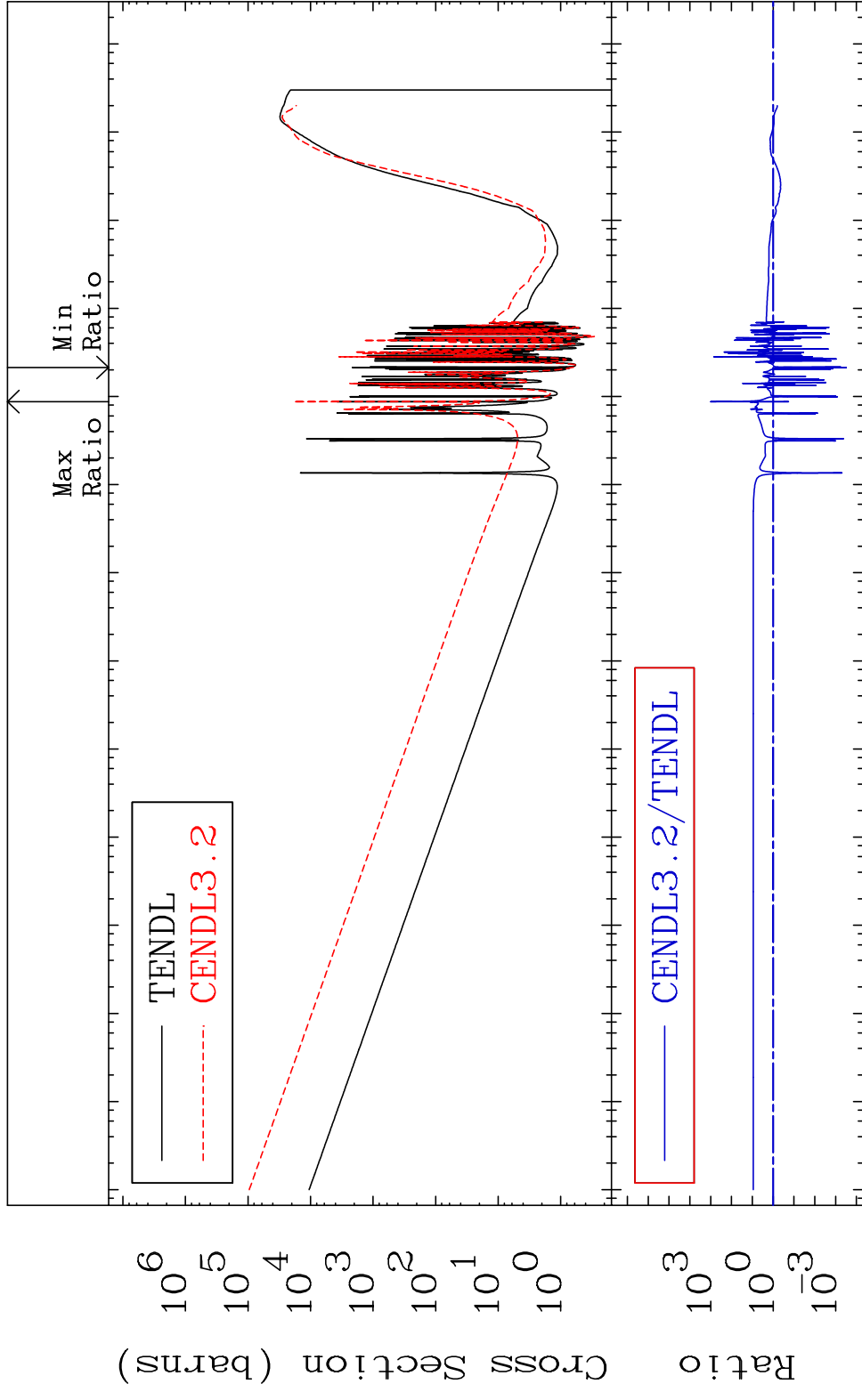
Incident Energy (eV)

28-Ni-61

MAT 2834 Dpa inelastic (mt51-91) 28-Ni-61
 Cross Section -100.0 To 109.7 %

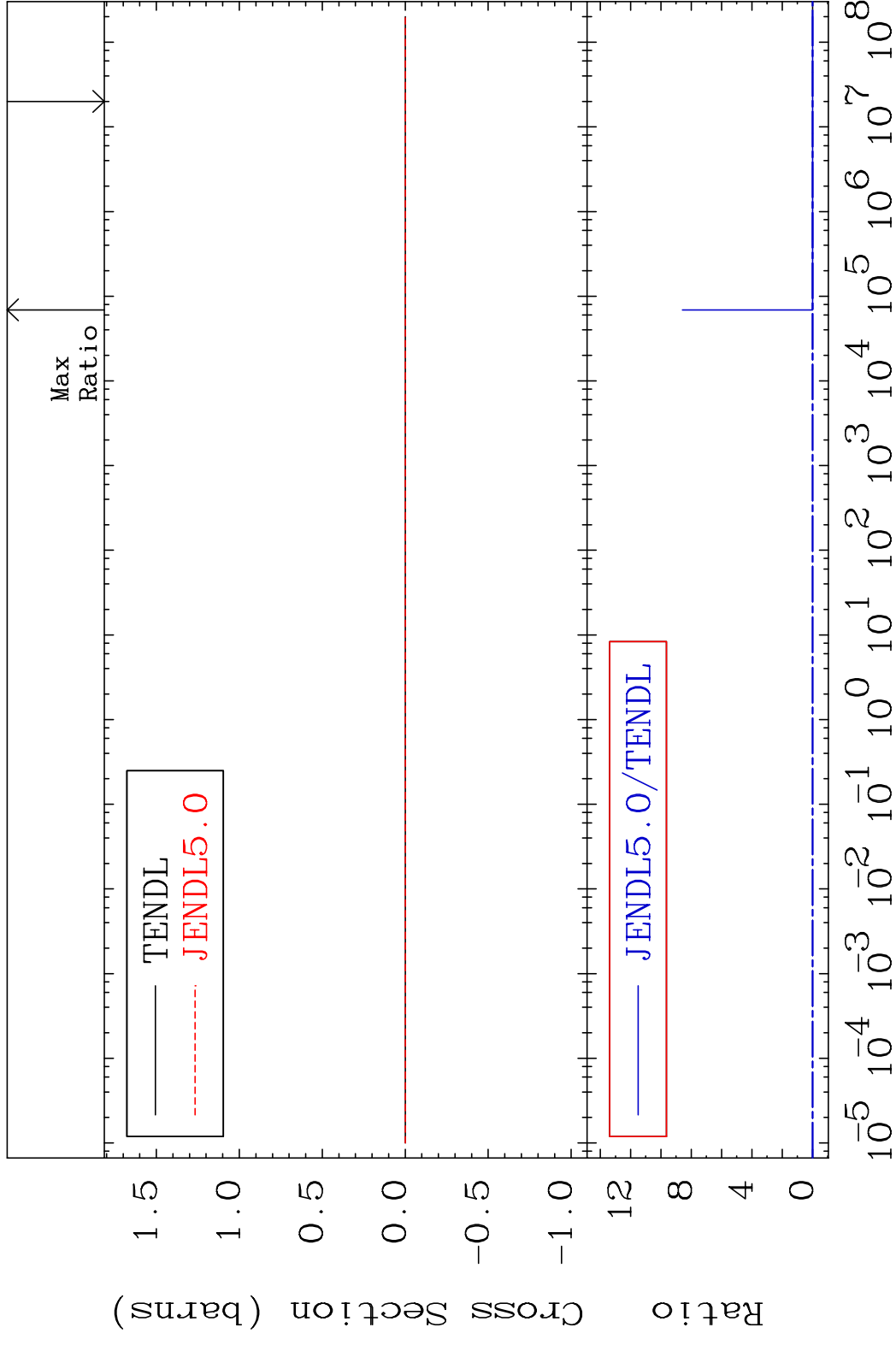


MAT 2834 Dpa disappearance (mt102 -120) 28-Ni-61
 Cross Section -99.97 To 9999. %



45 Incident Energy (eV) 28-Ni-61

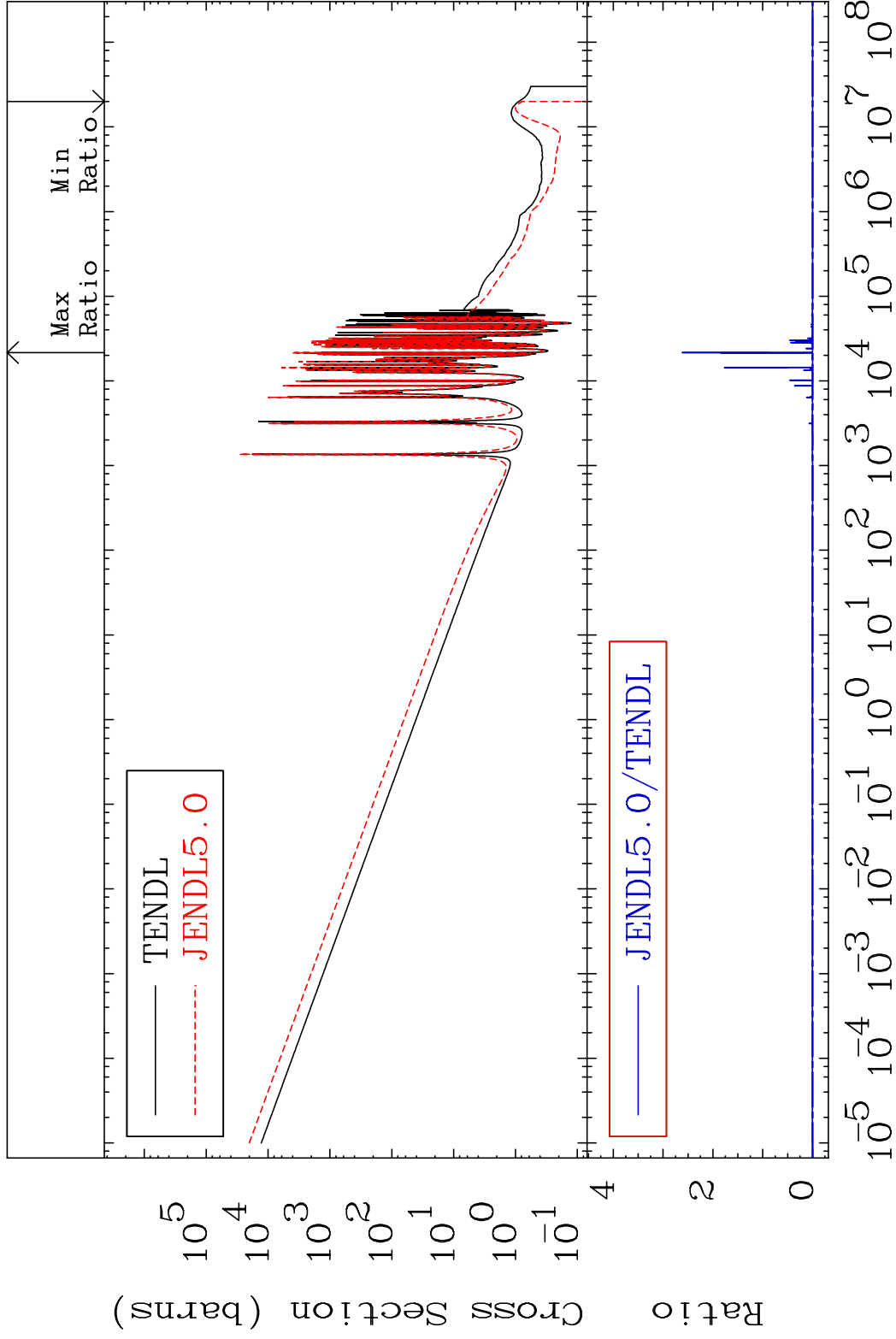
MAT 2834 Kerma fission (mt18 or mt19-20-21-38) 28-Ni-61
 Cross Section -100.0 To 9999. %



MAT 2834

Kerma capture (mt102) 28-Ni-61

Cross Section -100.0 To 9999. %

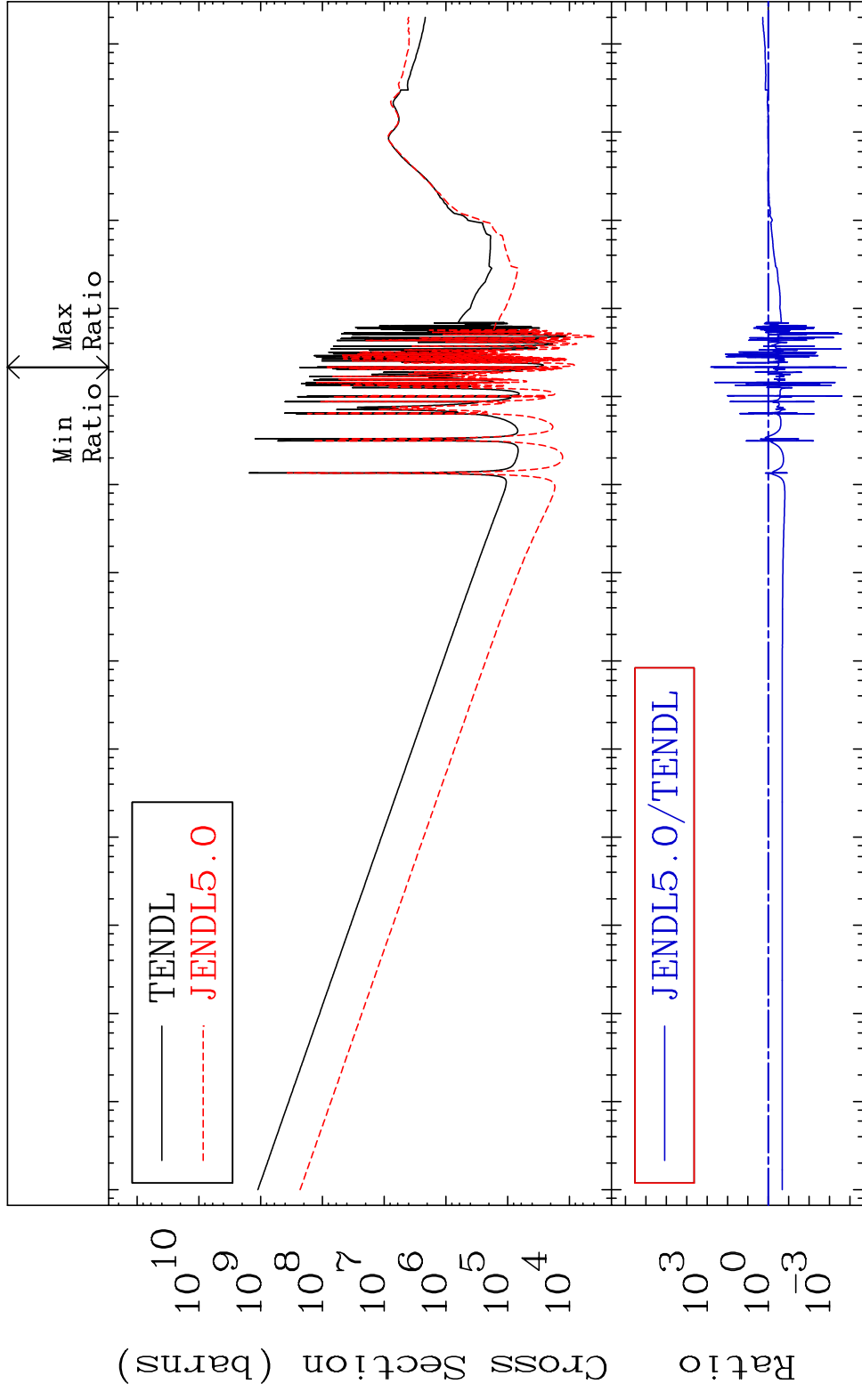


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Incident Energy (eV)

28-Ni-61

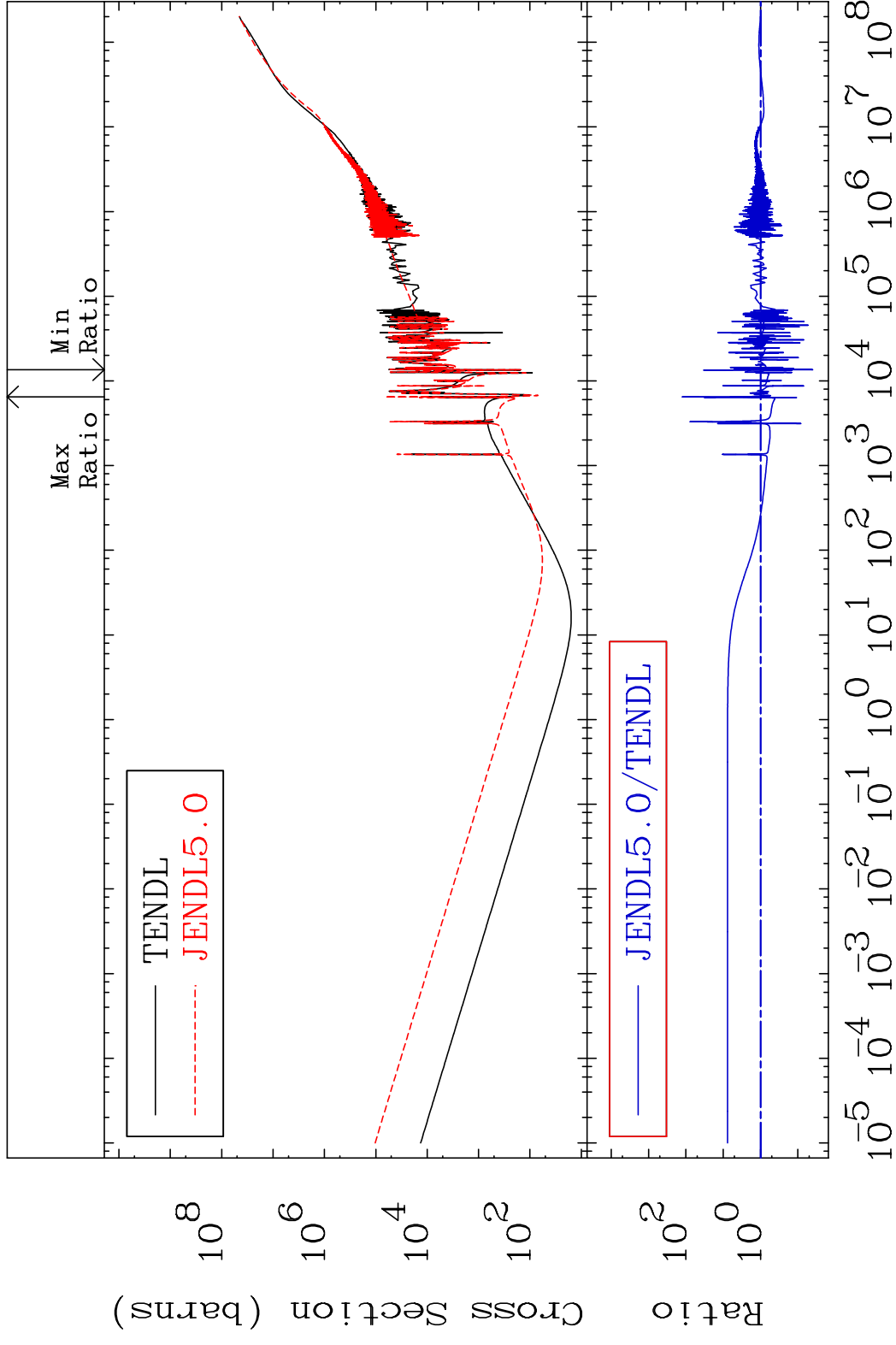
MAT 2834 Total photon (eV-barns) 28-Ni-61
 Cross Section -99.99 To 9999. %



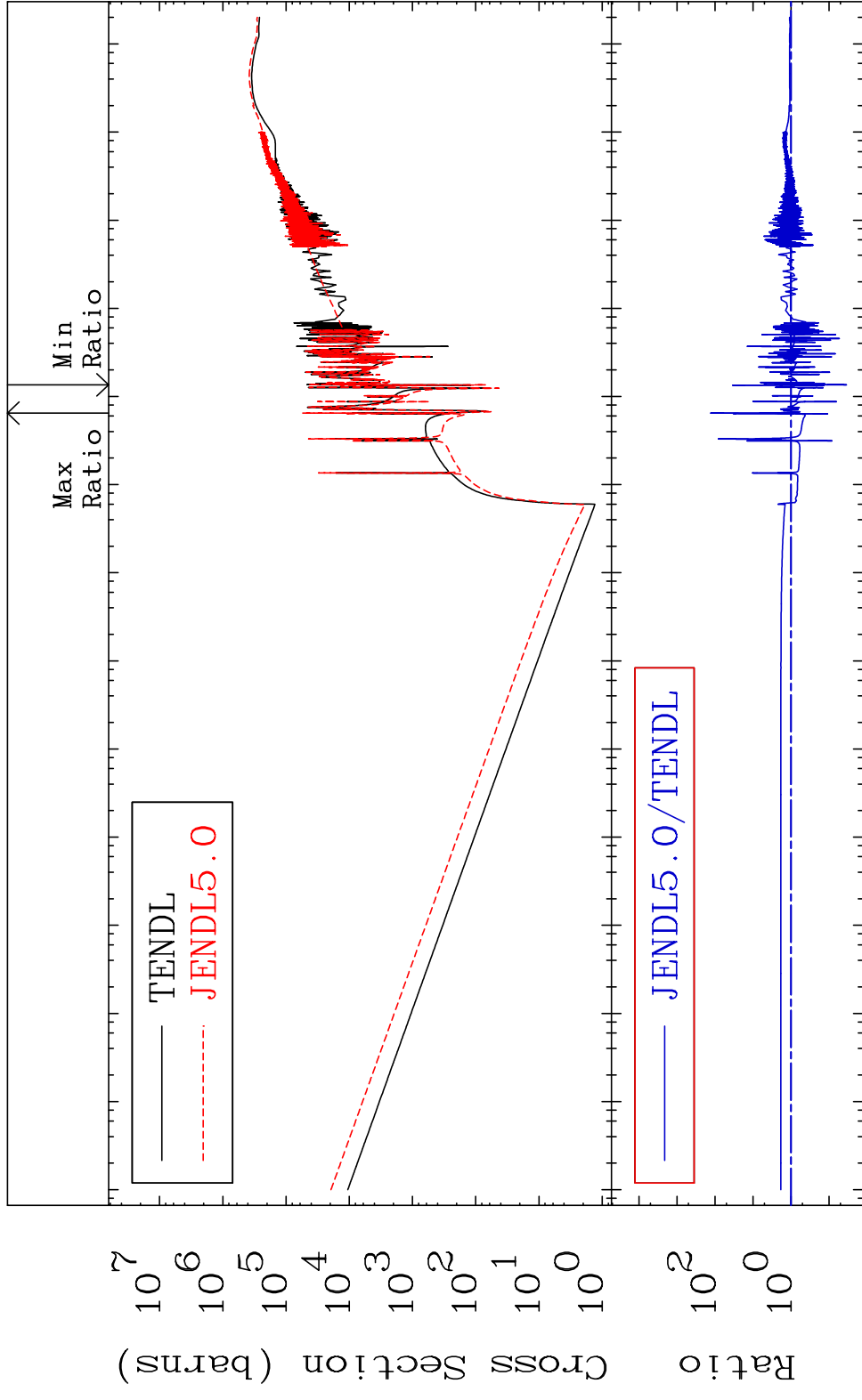
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

48 Incident Energy (eV) 28-Ni-61

MAT 2834 Total kinematic kerma (high limit) 28-Ni-61
 Cross Section -95.97 To 9999. %

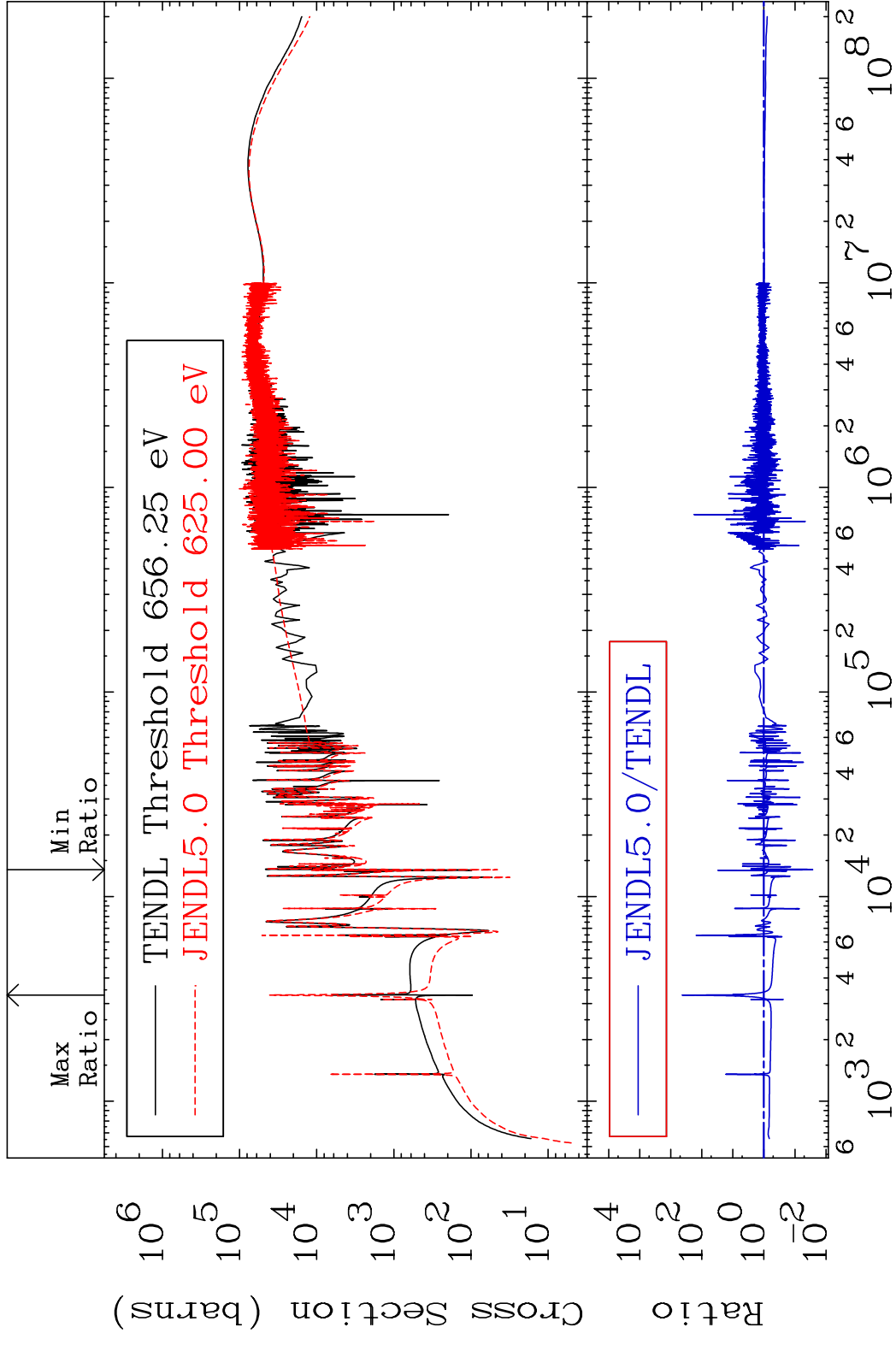


MAT 2834 Dpa total (eV-barns) 28-Ni-61
 Cross Section -96.50 To 9999. %

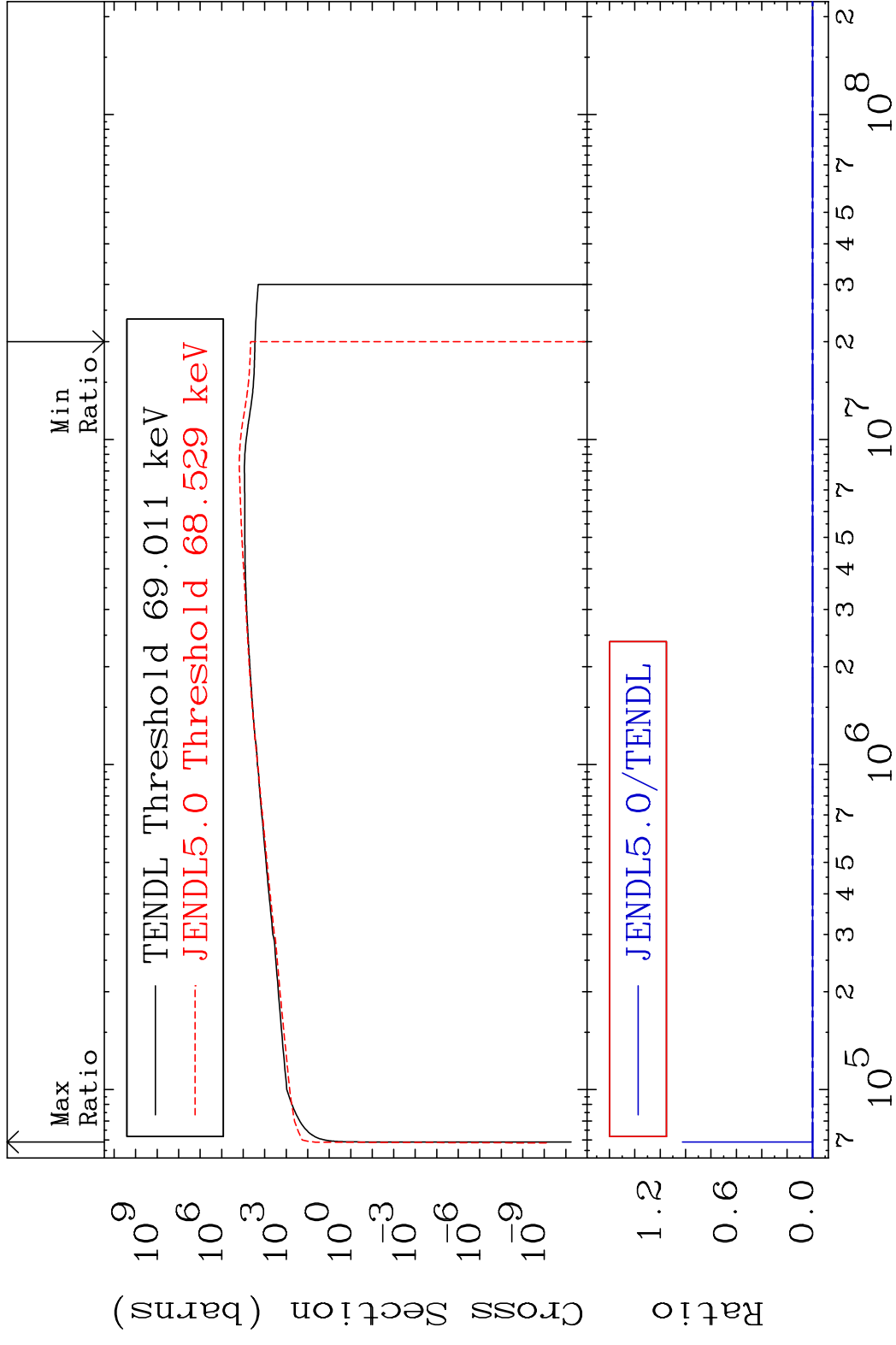


50 Incident Energy (eV) 28-Ni-61

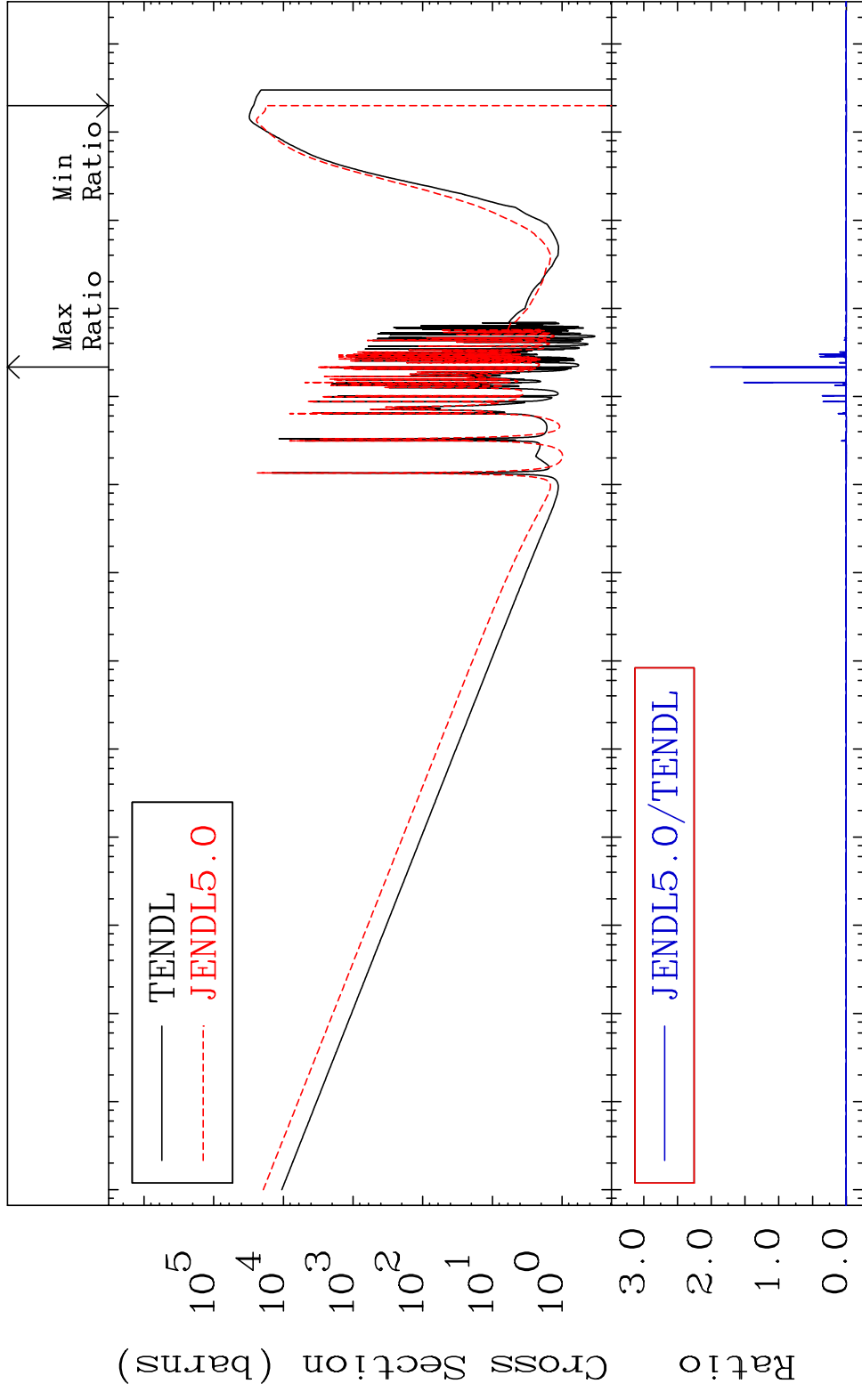
MAT 2834 Dpa elastic (mt2) 28-Ni-61
 Cross Section -97.30 To 9999. %



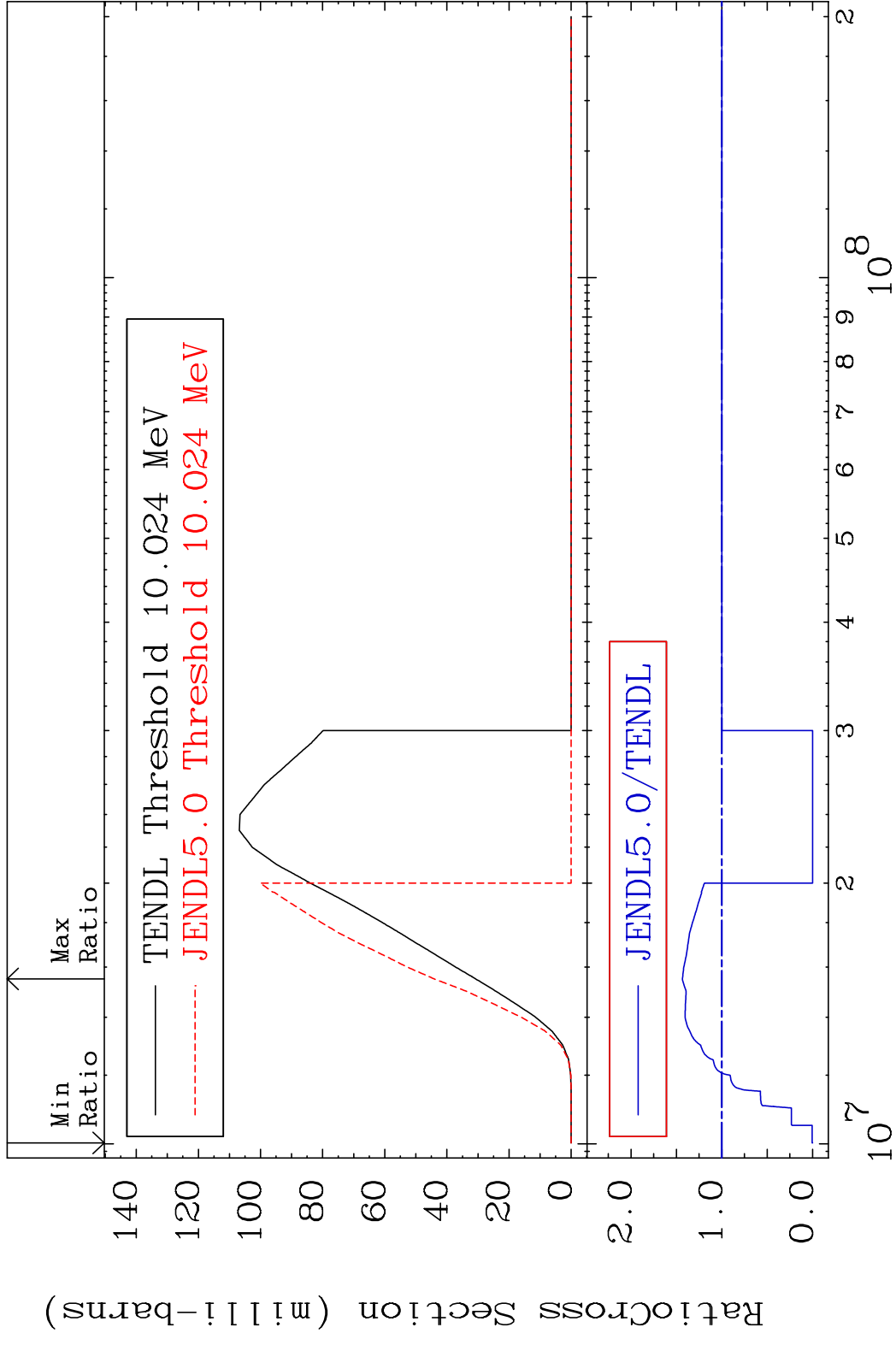
MAT 2834 Dpa inelastic (mt51-91) 28-Ni-61
 Cross Section -100.0 To 9999. %



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

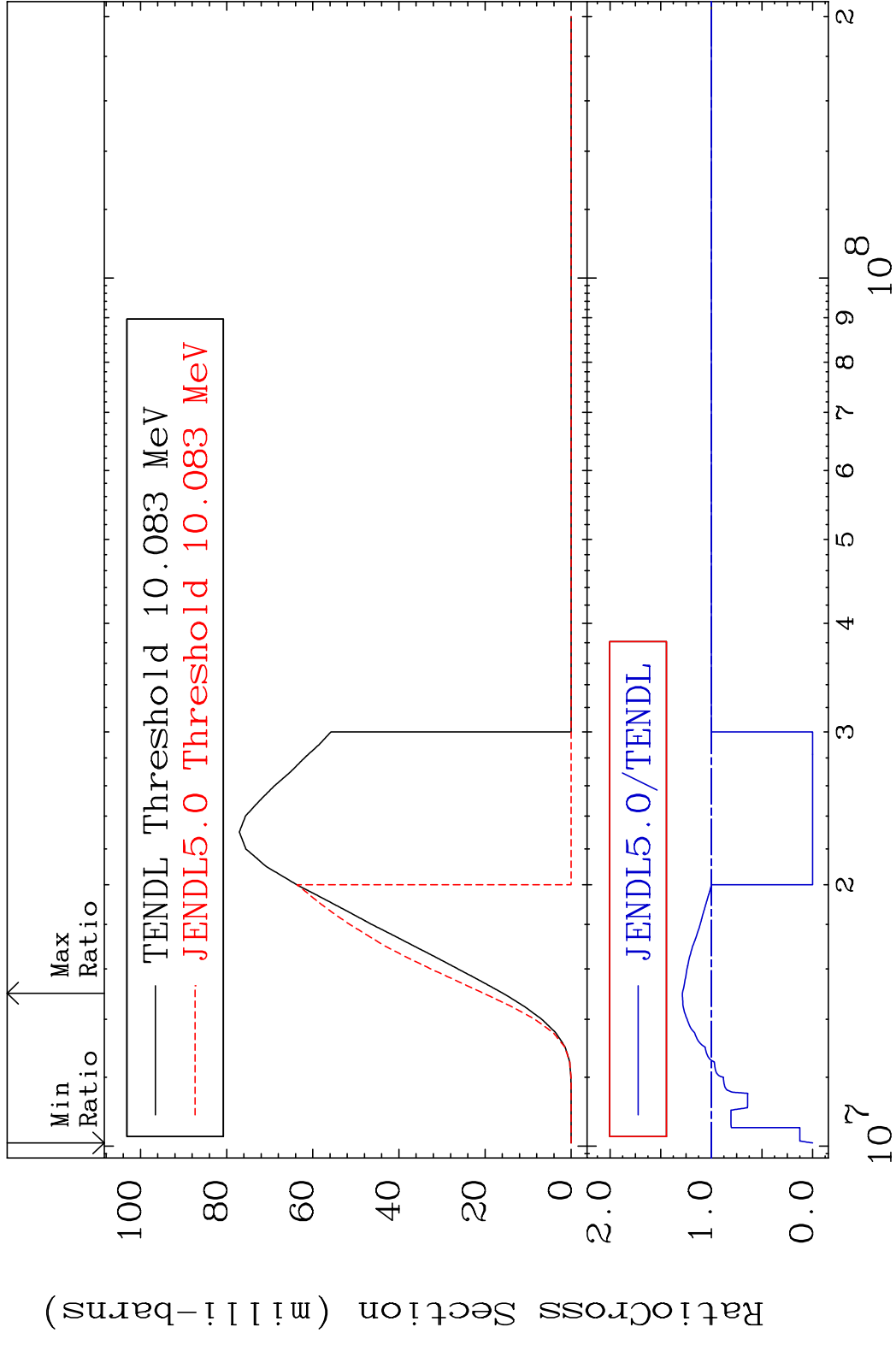


MAT 2834 (n, n') p:27-Co-60g 28-Ni-61
 Radionuclide Production Cross Section 180.01 dth 43.47 %

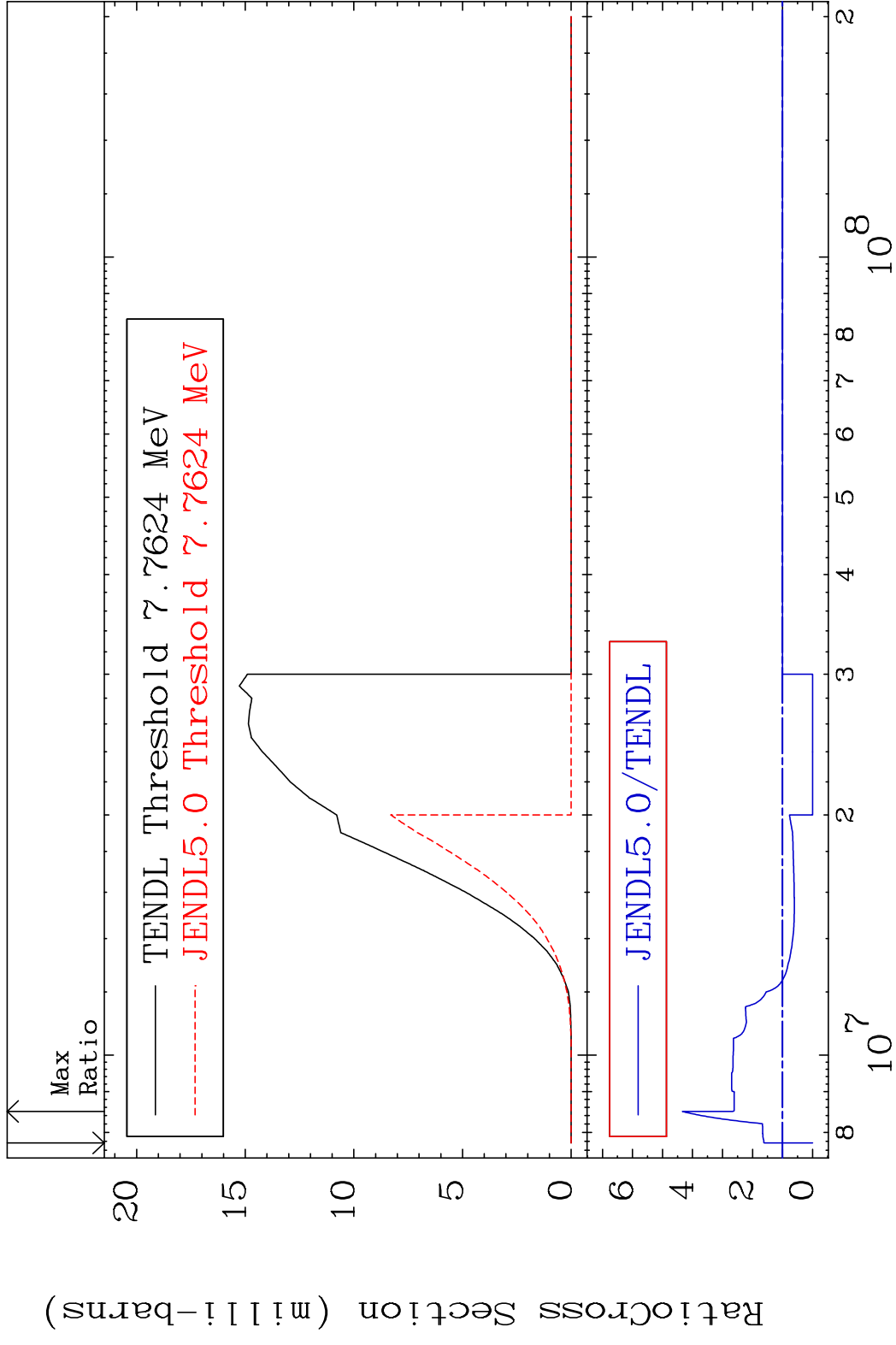


54 Incident Energy (eV) 28-Ni-61

MAT 2834 (n, n') p:27-Co-60m1 28-Ni-61
 Radionuclide Production Cross Section Ratio 28.59 %



MAT 2834 (n, d):27-Co-60g 28-Ni-61
 Radionuclide Production Cross Section 180.0 dth 333.8 %



MAT 2834 (n,d):27-Co-60m1 28-Ni-61
 Radionuclide Production Cross Section 180.0 dth 229.3 %

