

Program Complot
(Version 2021-1)

by

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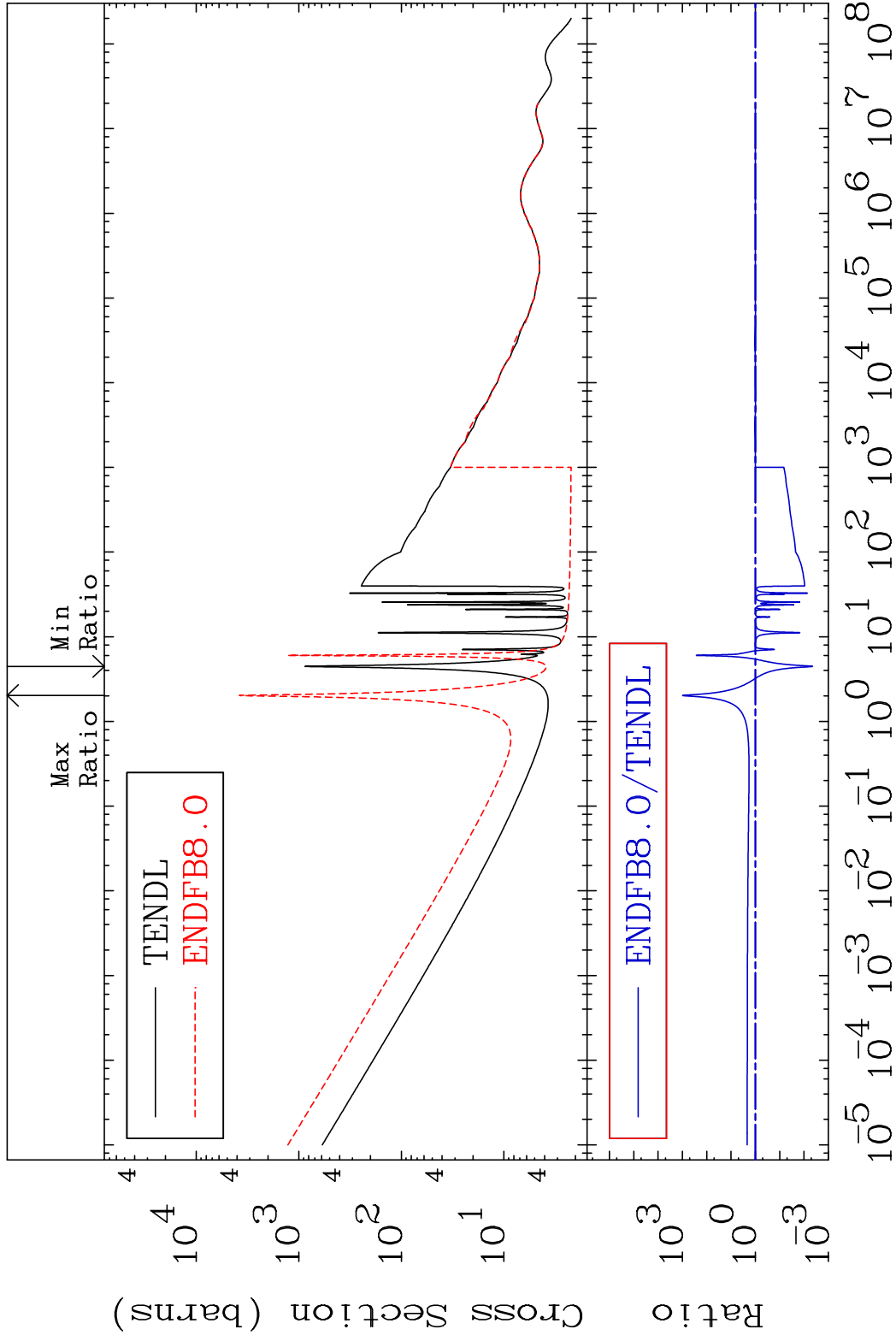
Press Mouse Button to Start

MAT 5829

Total

58-Ce-137m

Cross Section -99.55 To 9999. %



1

Incident Energy (eV)

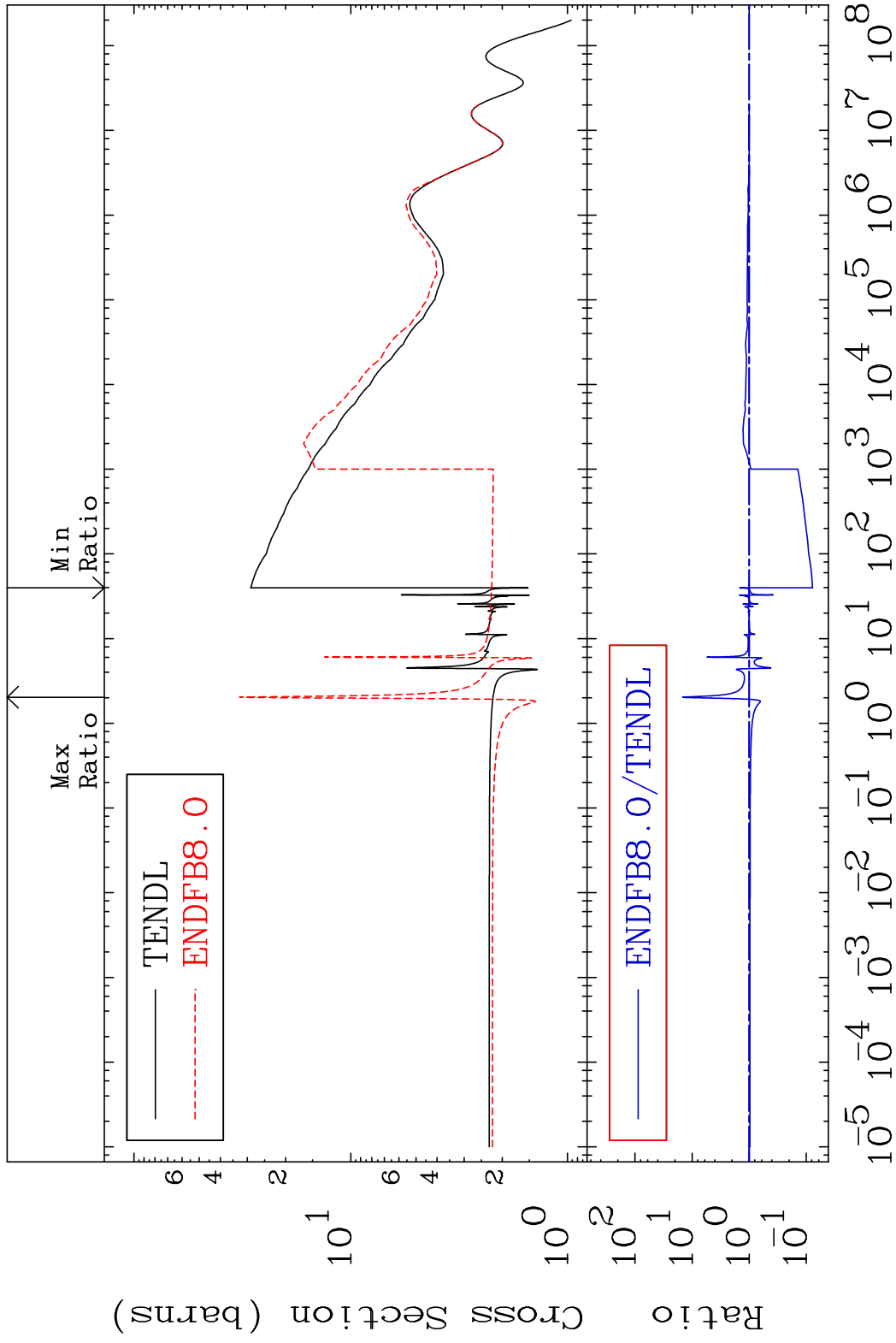
58-Ce-137m

MAT 5829

Elastic

58-Ce-137m

Cross Section -92.26 To 1382. %



2

Incident Energy (eV)

58-Ce-137m

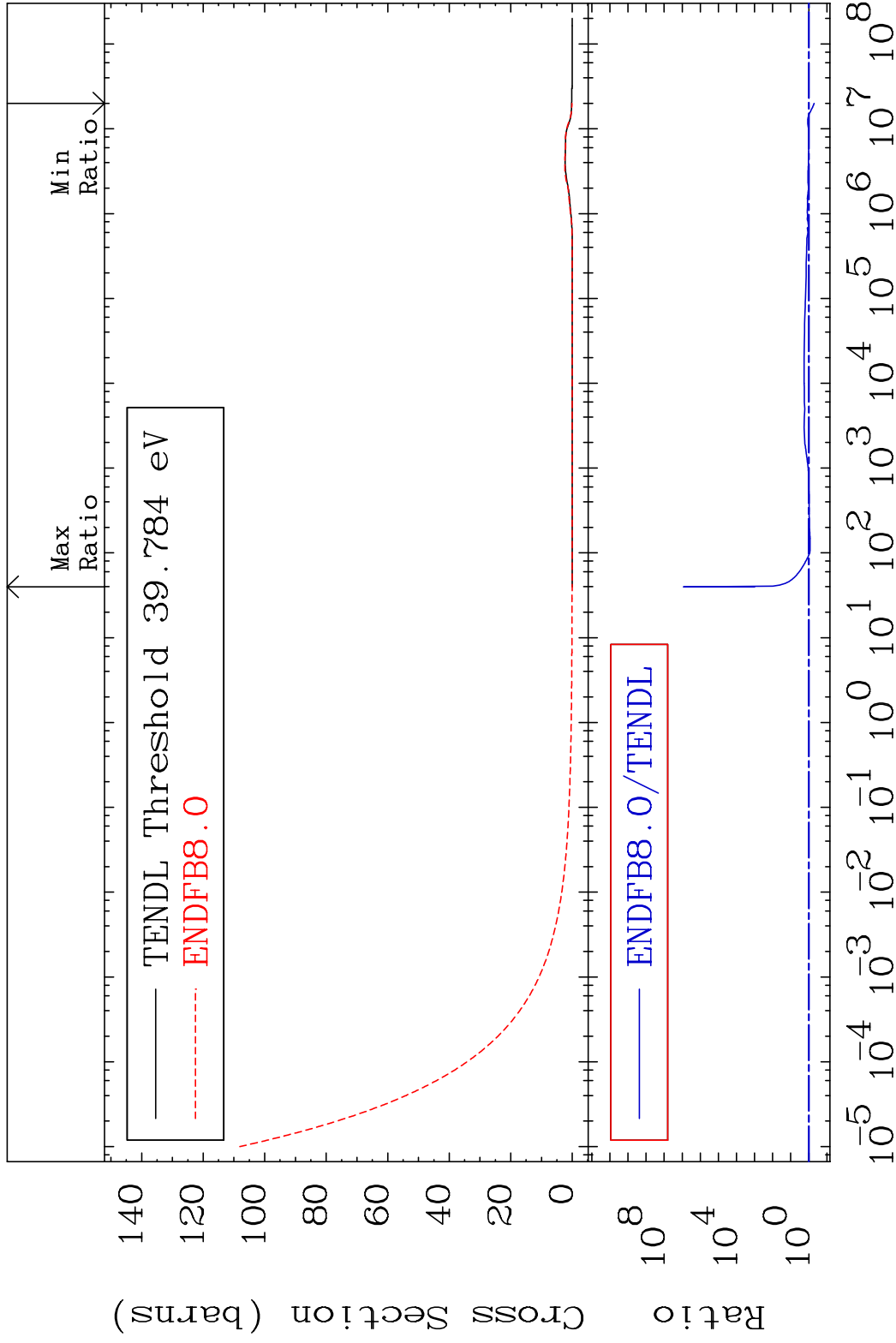
MAT 5829

Inelastic

58-Ce-137m

Cross Section

-49.19 To 9999. %



3

Incident Energy (eV)

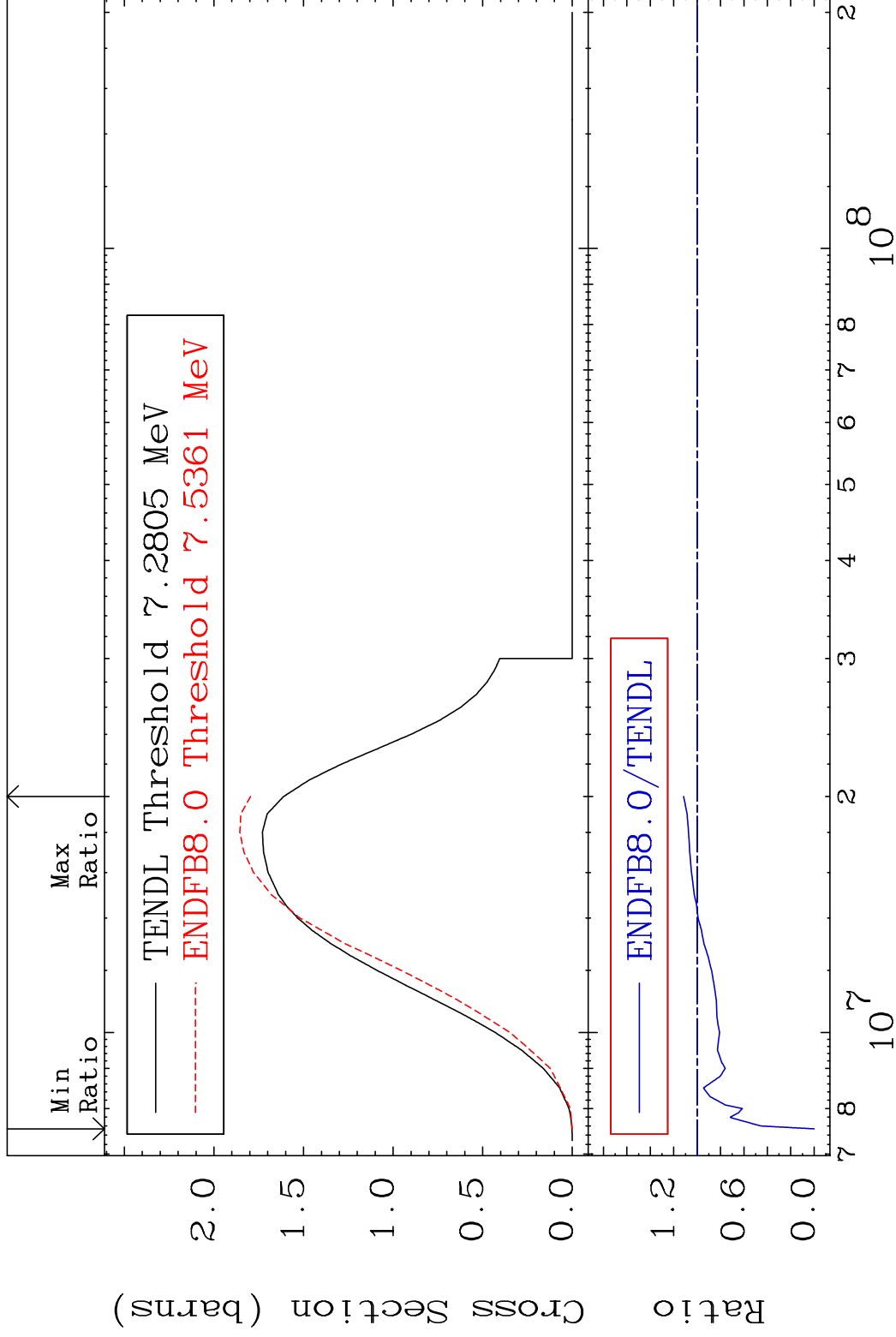
58-Ce-137m

MAT 5829

(n,2n)

58-Ce-137m

Cross Section -100.0 To 11.50 %

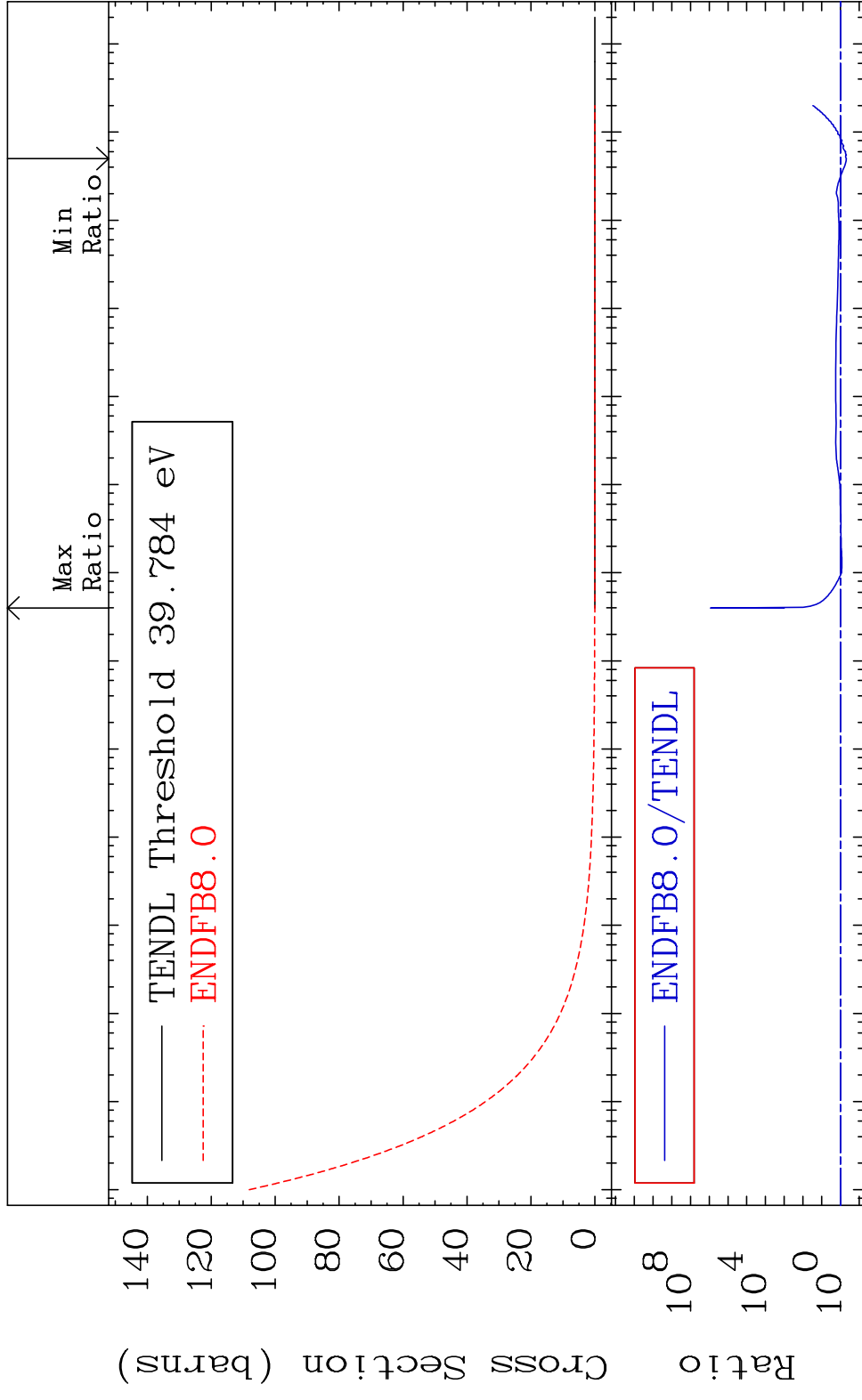


4

Incident Energy (eV)

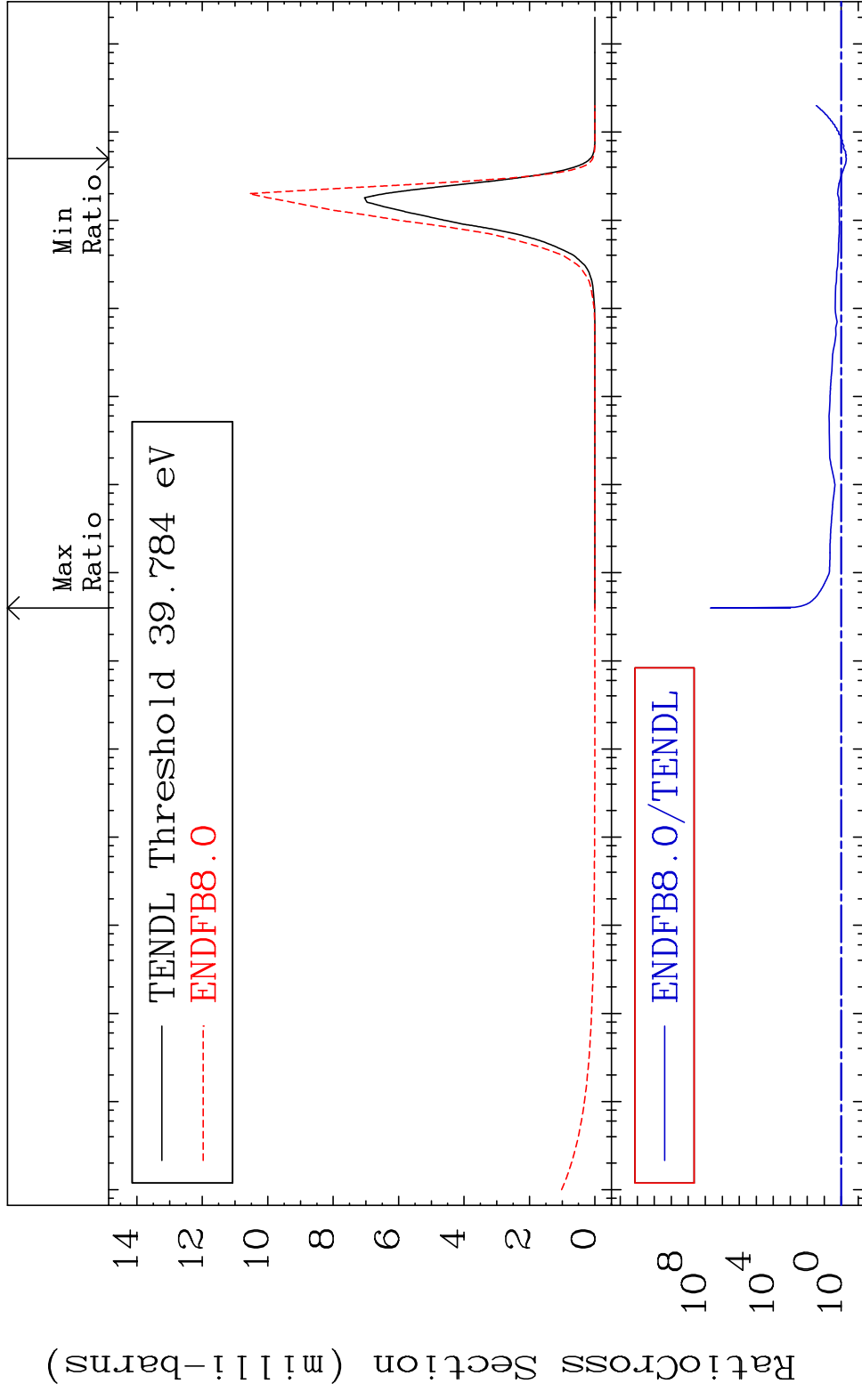
58-Ce-137m

MAT 5829 MT= 51 (n, n') Level 58-Ce-137m
 Cross Section -51.05 To 9999. %



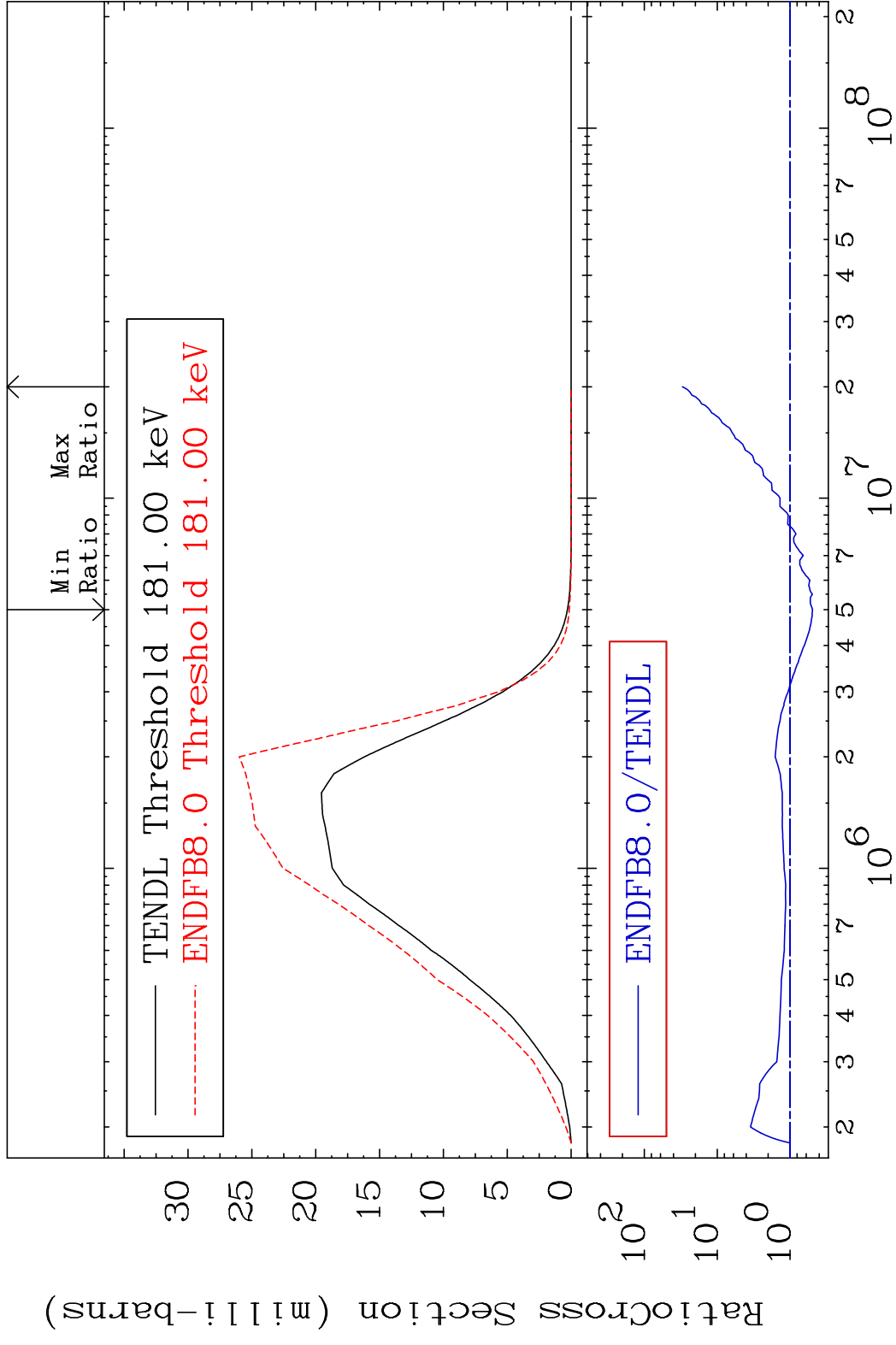
5 Incident Energy (eV) 58-Ce-137m

MAT 5829 MT= 52 (n, n') Level 58-Ce-137m
 Cross Section -49.78 To 9999. %

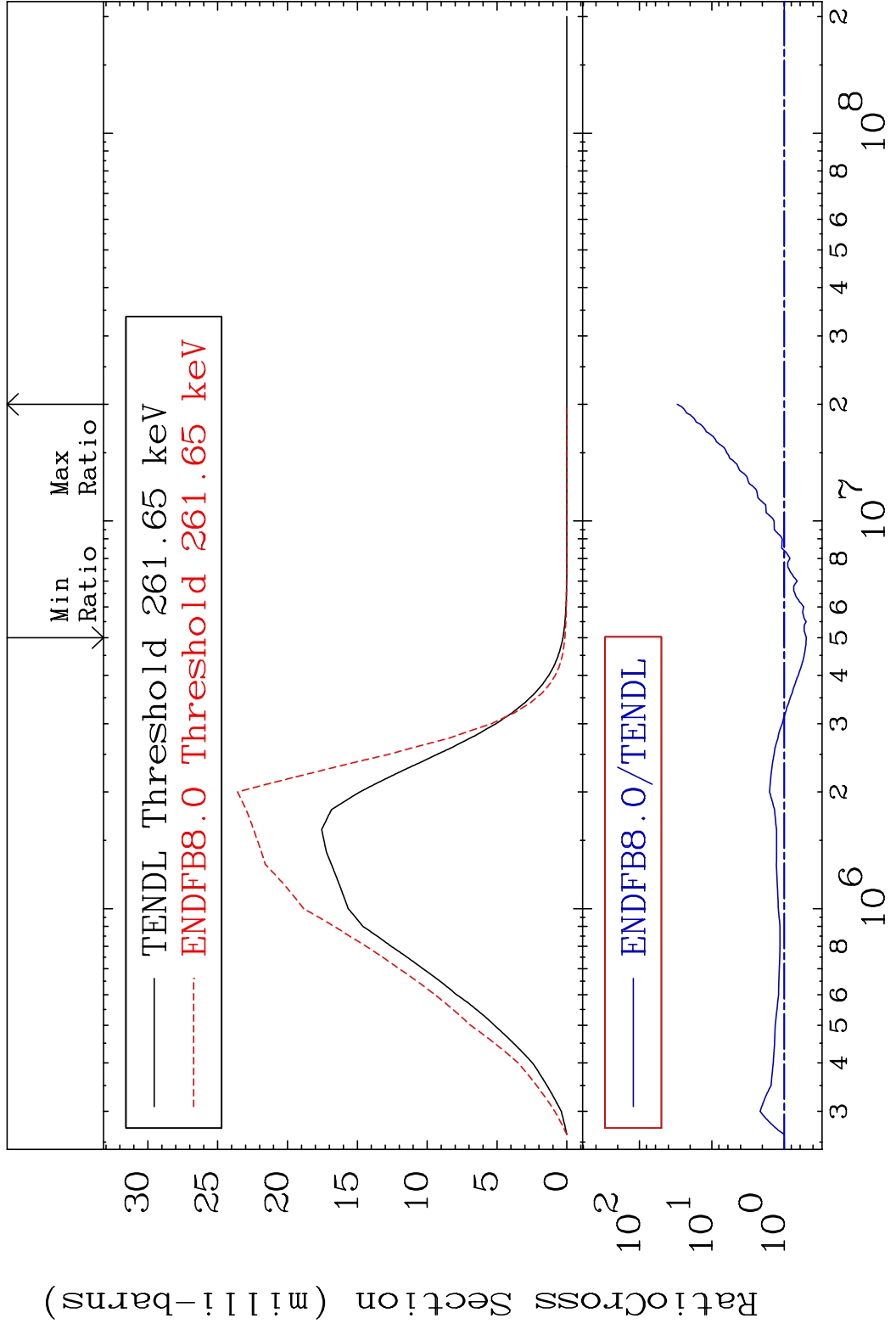


6 Incident Energy (eV) 58-Ce-137m

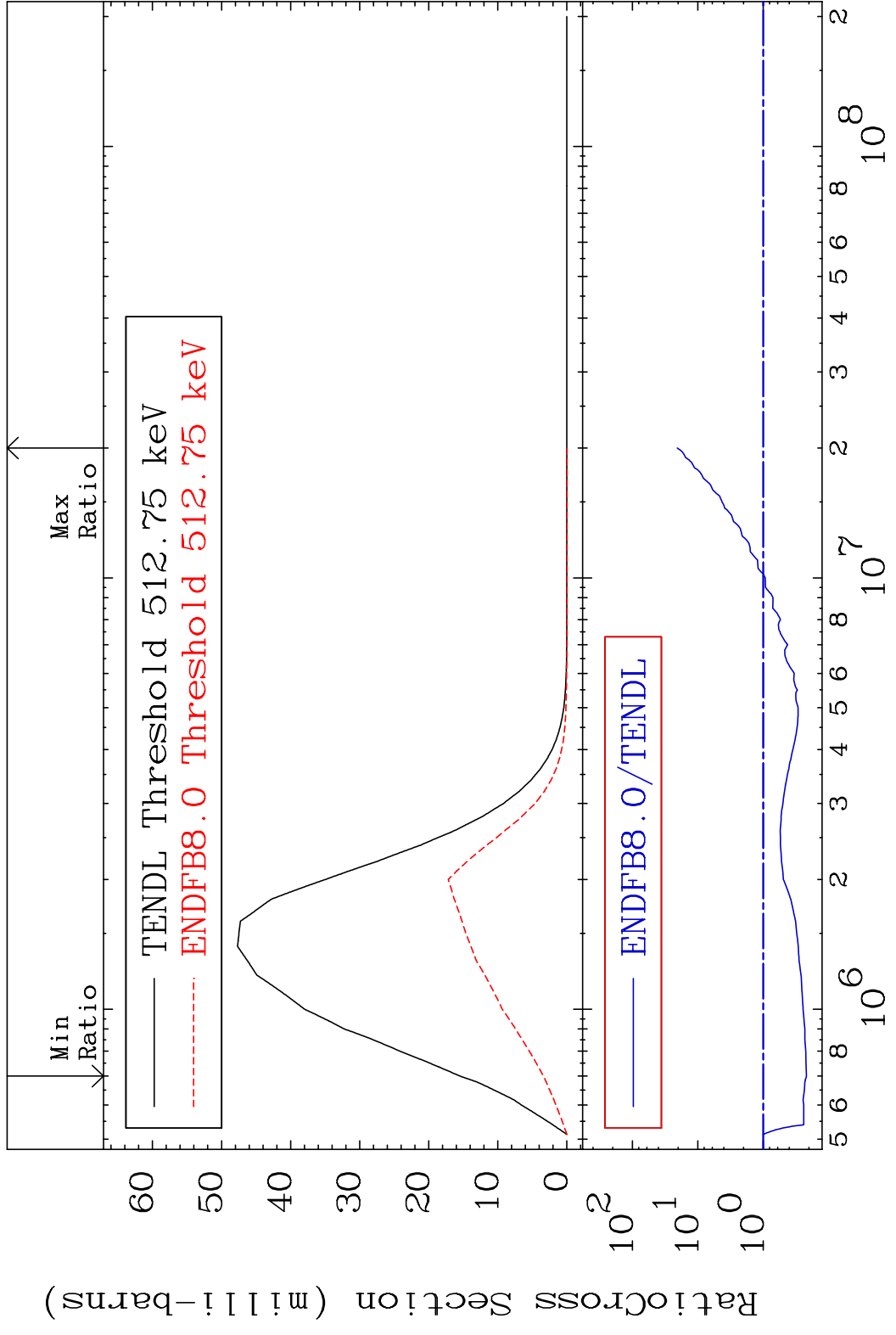
MAT 5829 MT= 53 (n, n') Level 58-Ce-137m
 Cross Section -50.78 To 2915. %



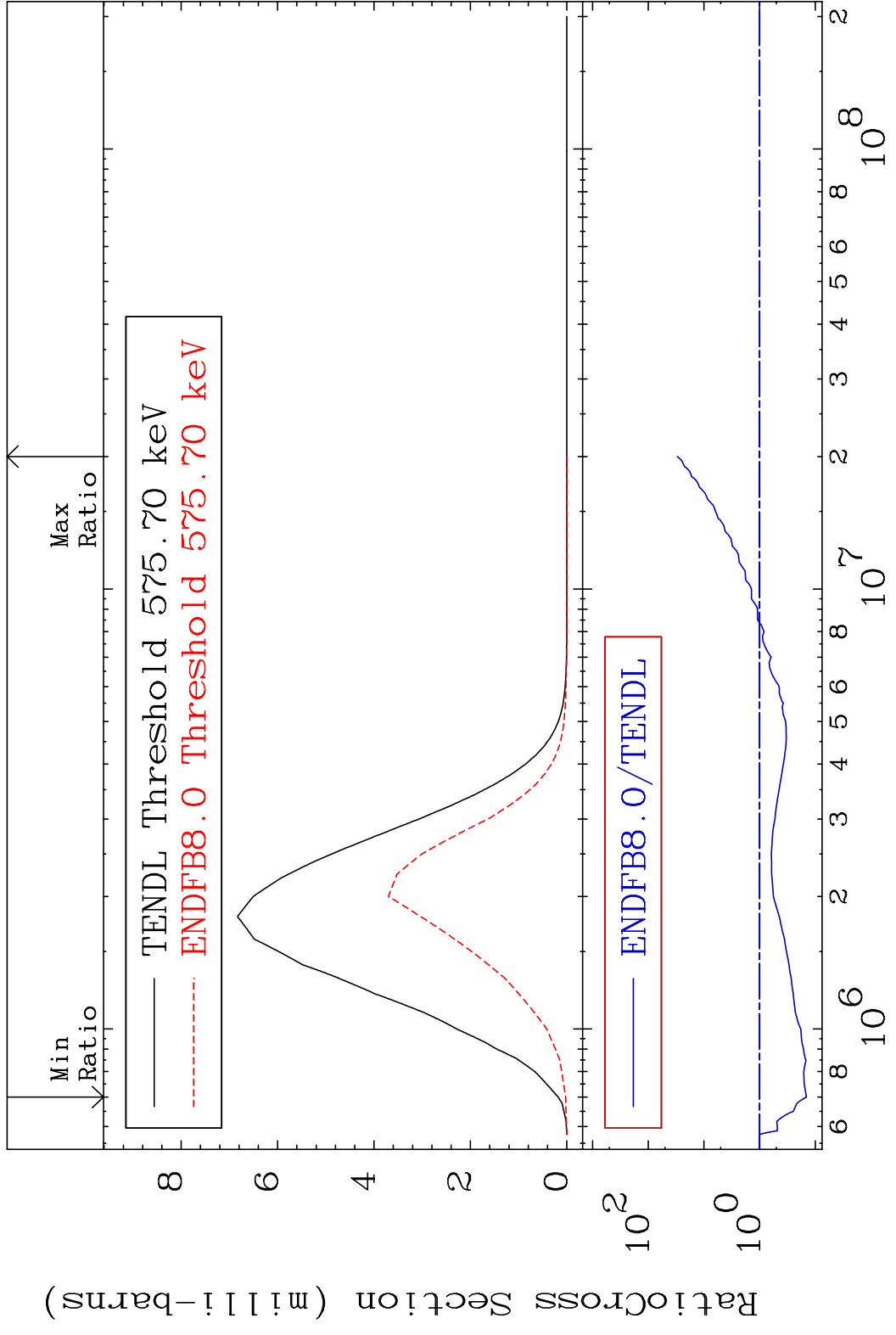
MAT 5829 MT= 54 (n, n') Level 58-Ce-137m
 Cross Section -50.73 To 2916. %



MAT 5829 MT= 55 (n, n') Level 58-Ce-137m
 Cross Section -78.07 To 1965. %

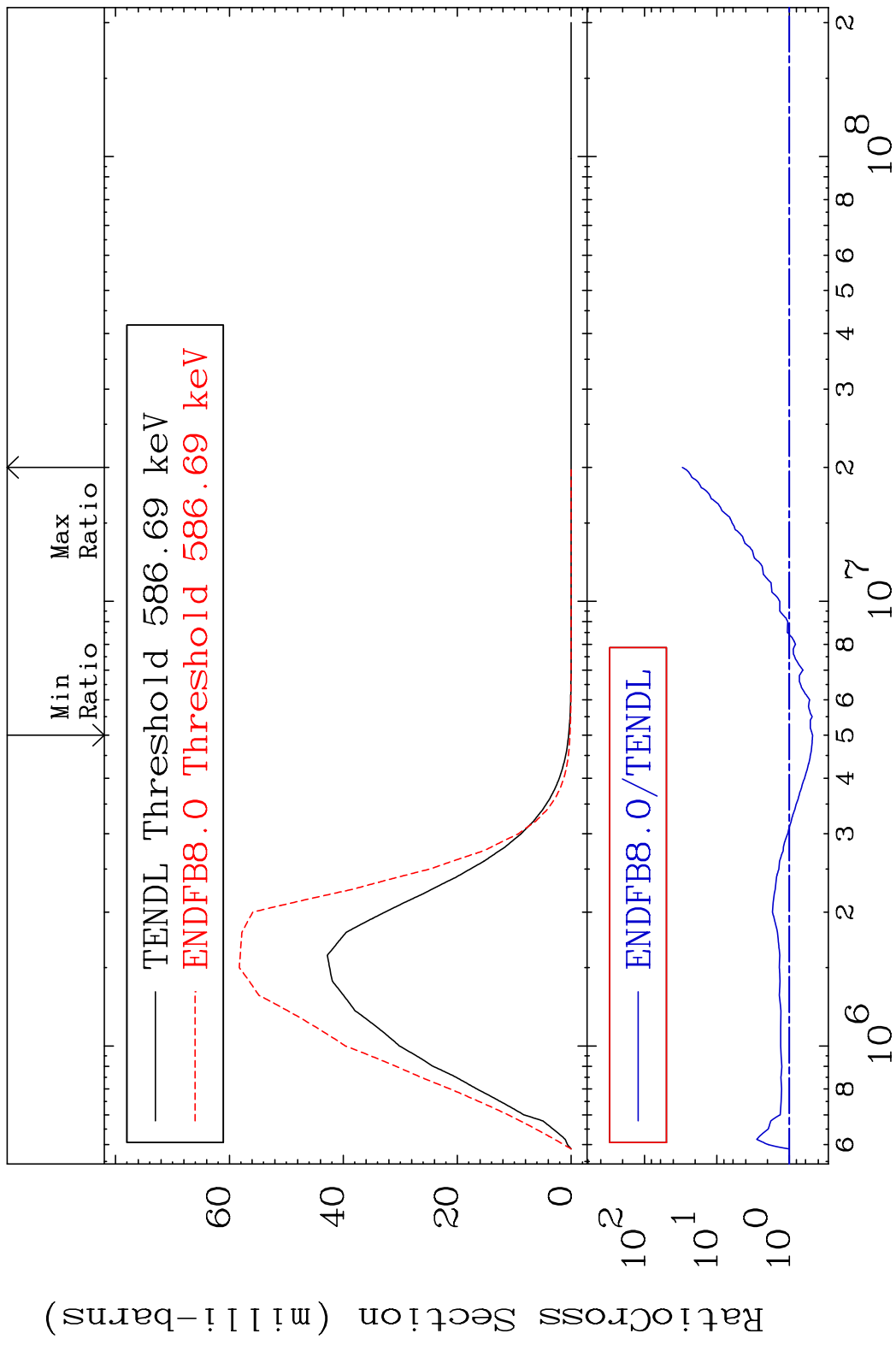


MAT 5829 MT= 56 (n, n') Level 58-Ce-137m
 Cross Section -85.53 To 2930. %

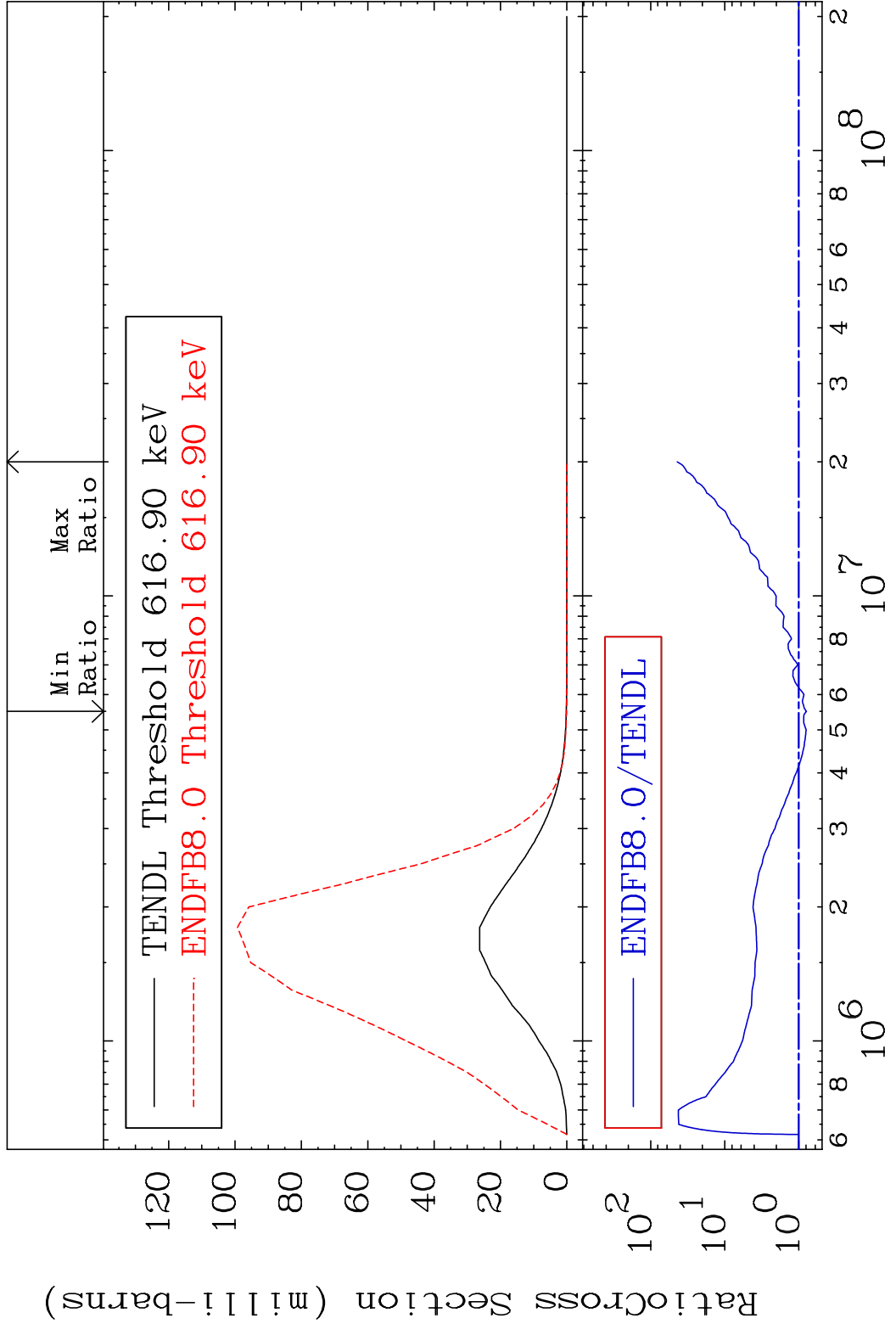


10 Incident Energy (eV) 58-Ce-137m

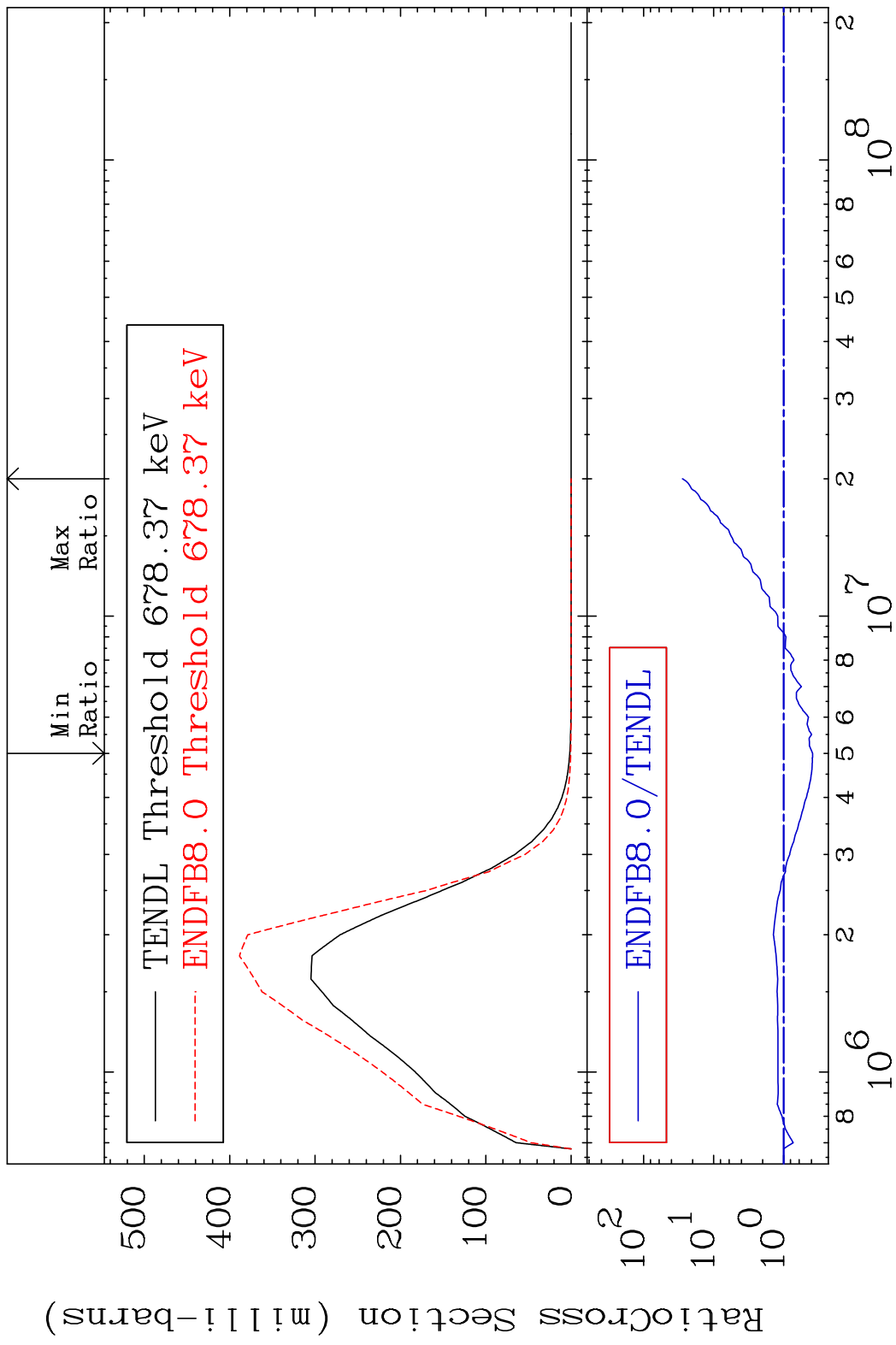
MAT 5829 MT= 57 (n, n') Level 58-Ce-137m
 Cross Section -52.13 To 2898. %



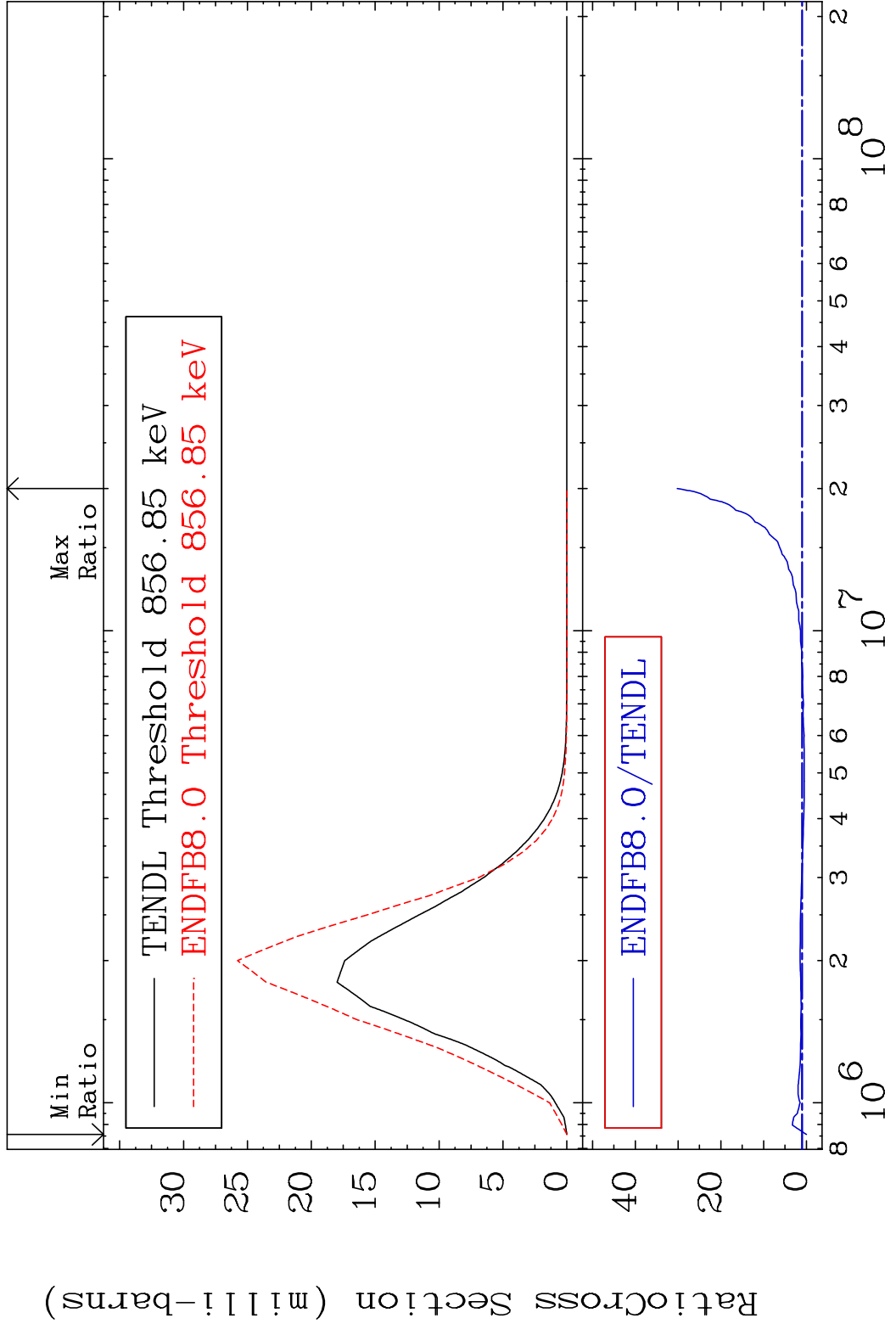
MAT 5829 MT= 58 (n, n') Level 58-Ce-137m
 Cross Section -21.17 To 4284. %



MAT 5829 MT= 59 (n, n') Level 58-Ce-137m
 Cross Section -61.31 To 2702. %

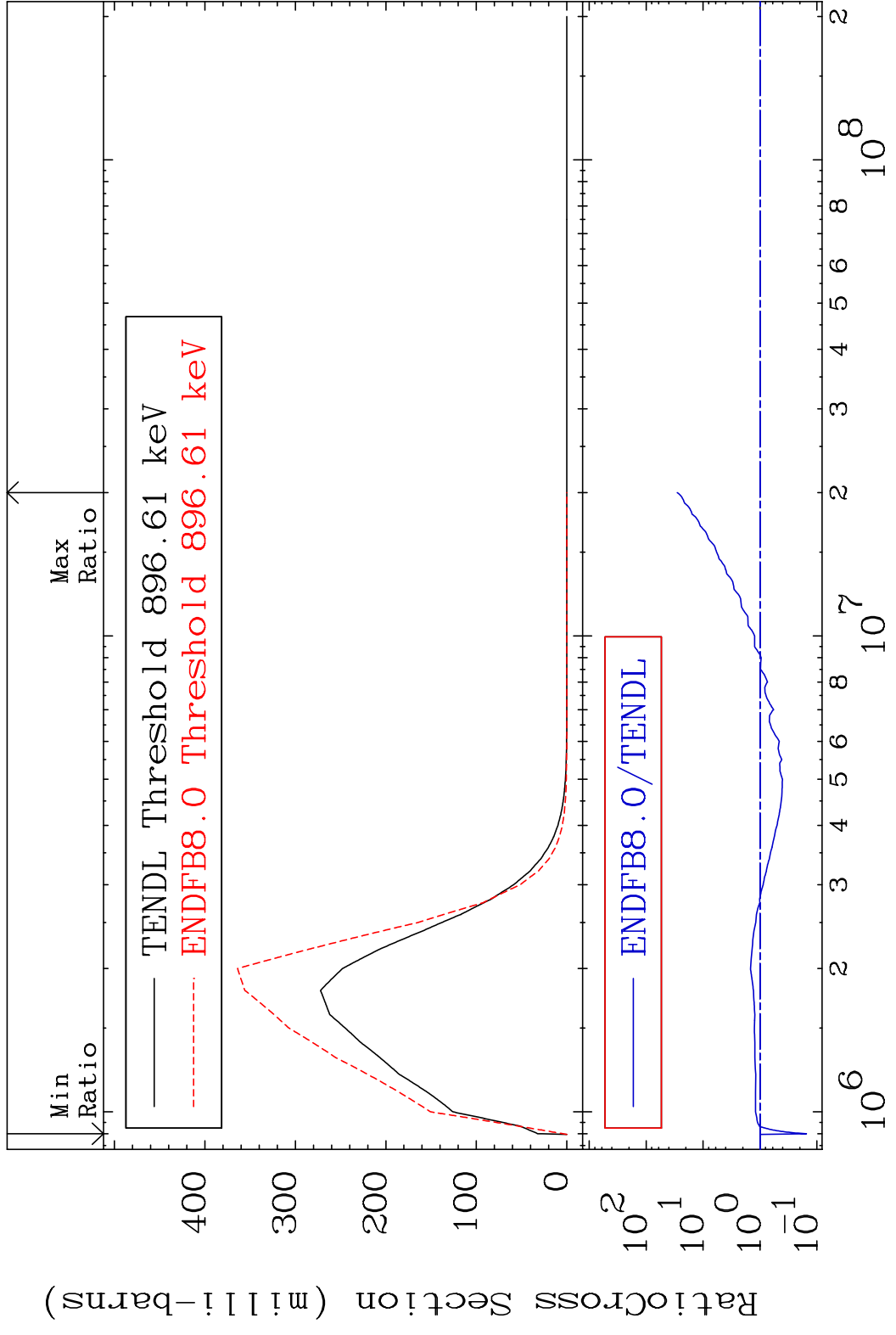


MAT 5829 MT= 60 (n, n') Level 58-Ce-137m
 Cross Section -100.0 To 2920. %



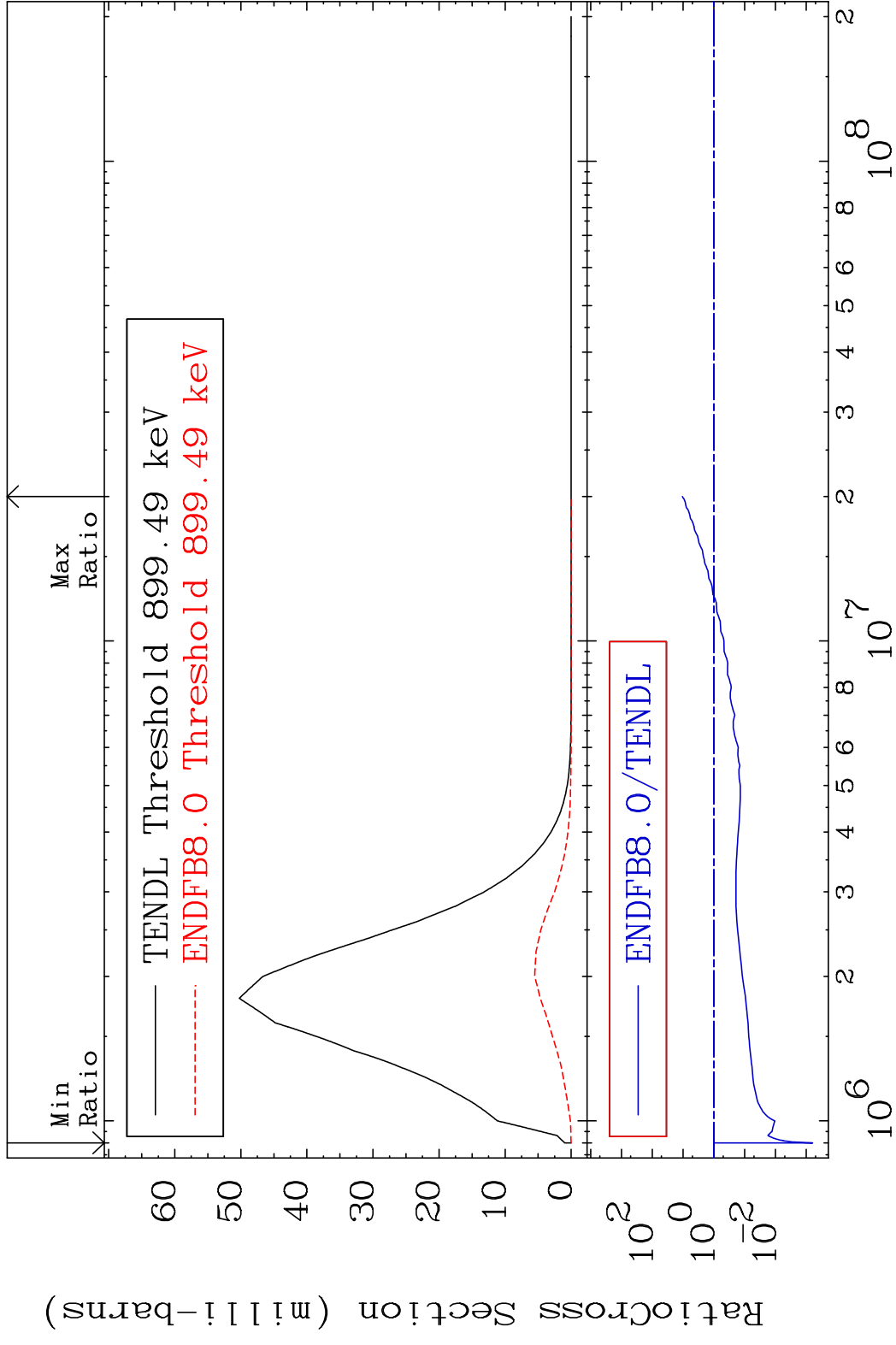
14 Incident Energy (eV) 58-Ce-137m

MAT 5829 MT= 61 (n, n') Level 58-Ce-137m
 Cross Section -84.69 To 2749. %



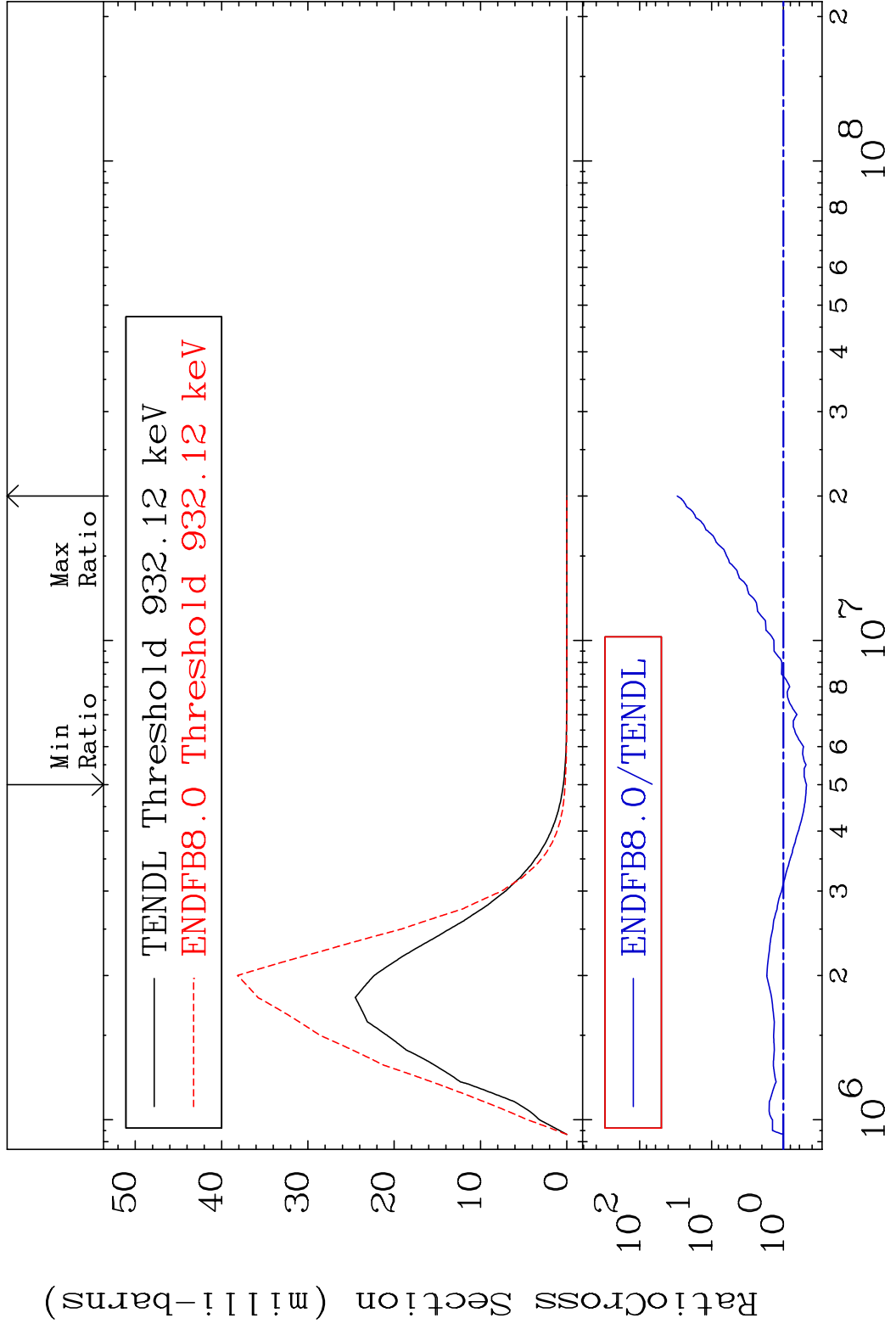
15 Incident Energy (eV) 58-Ce-137m

MAT 5829 MT= 62 (n, n') Level 58-Ce-137m
 Cross Section -99.94 To 952.9 %



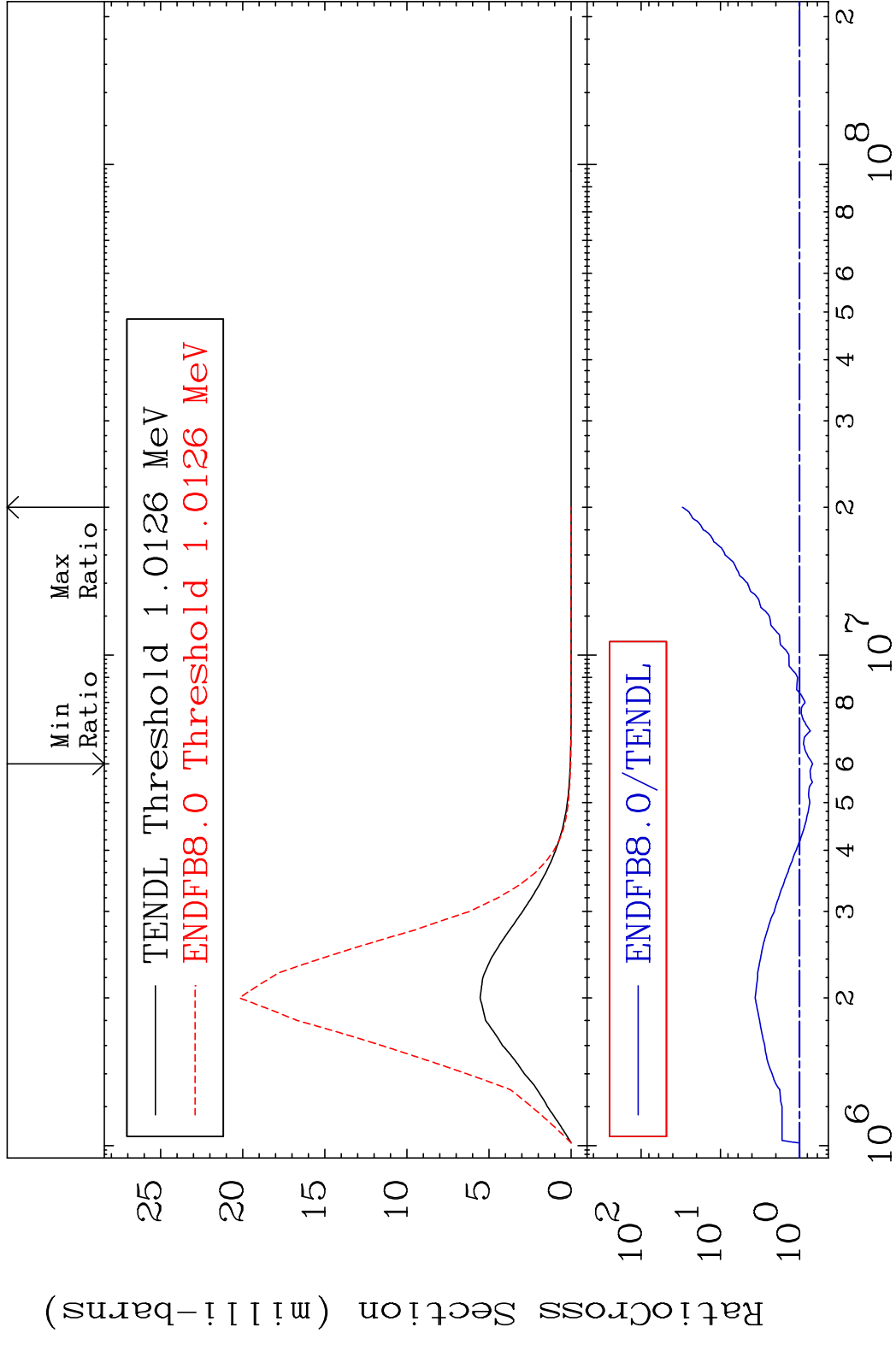
16 Incident Energy (eV) 58-Ce-137m

MAT 5829 MT= 63 (n, n') Level 58-Ce-137m
 Cross Section -51.98 To 2901. %



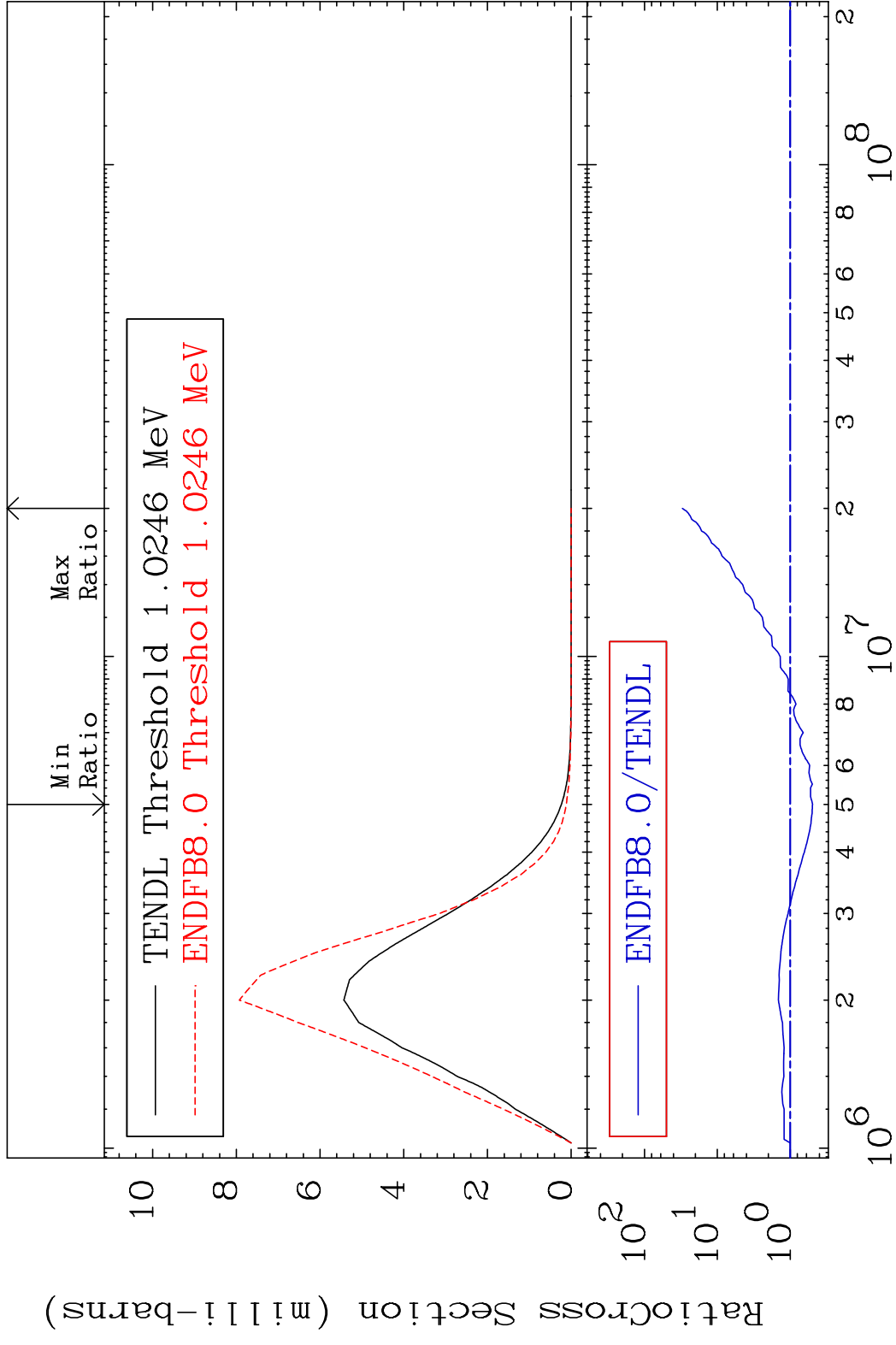
17 Incident Energy (eV) 58-Ce-137m

MAT 5829 MT= 64 (n, n') Level 58-Ce-137m
 Cross Section -31.17 To 2922. %

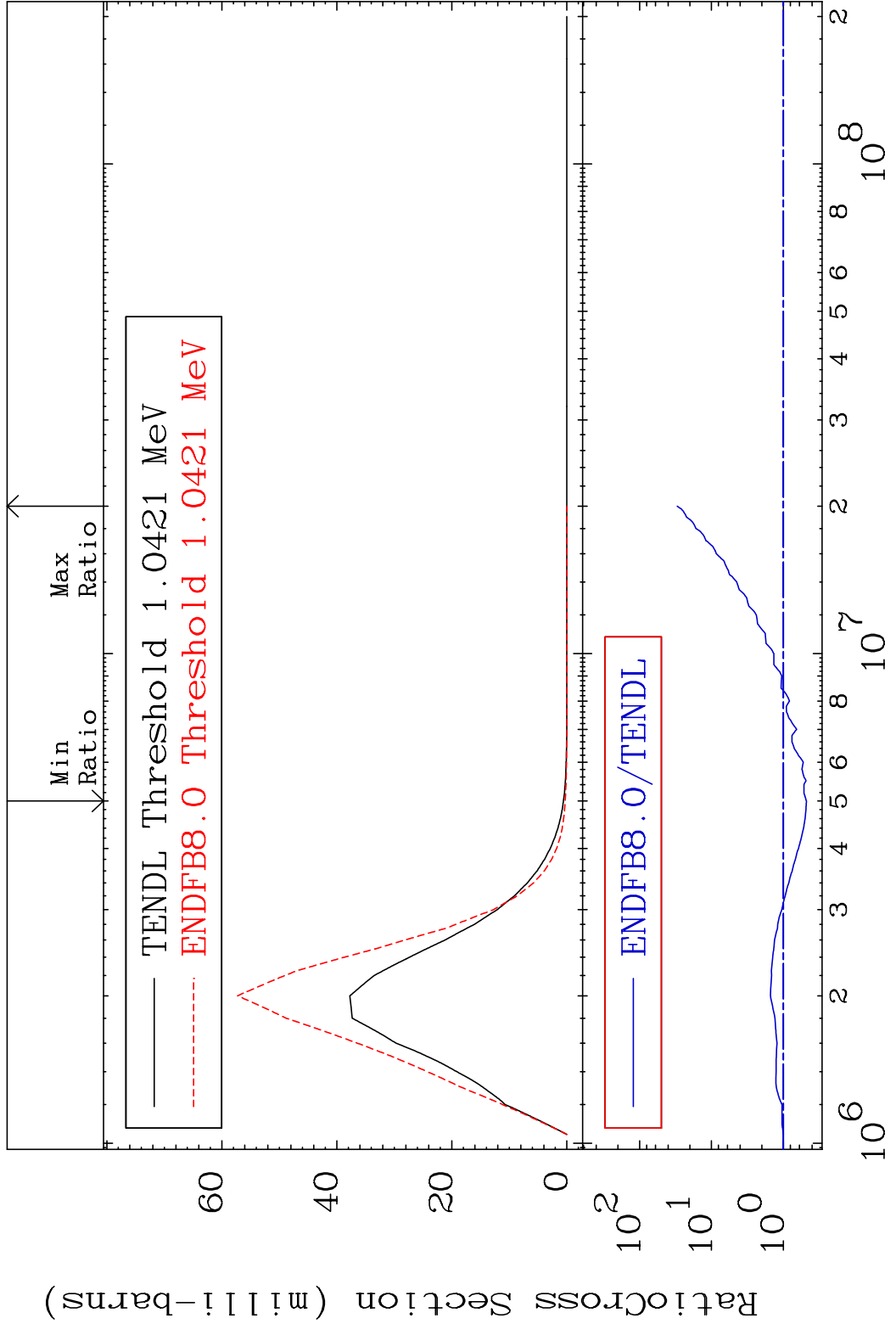


18 Incident Energy (eV) 58-Ce-137m

MAT 5829 MT= 65 (n,n') Level 58-Ce-137m
 Cross Section -50.40 To 2921. %

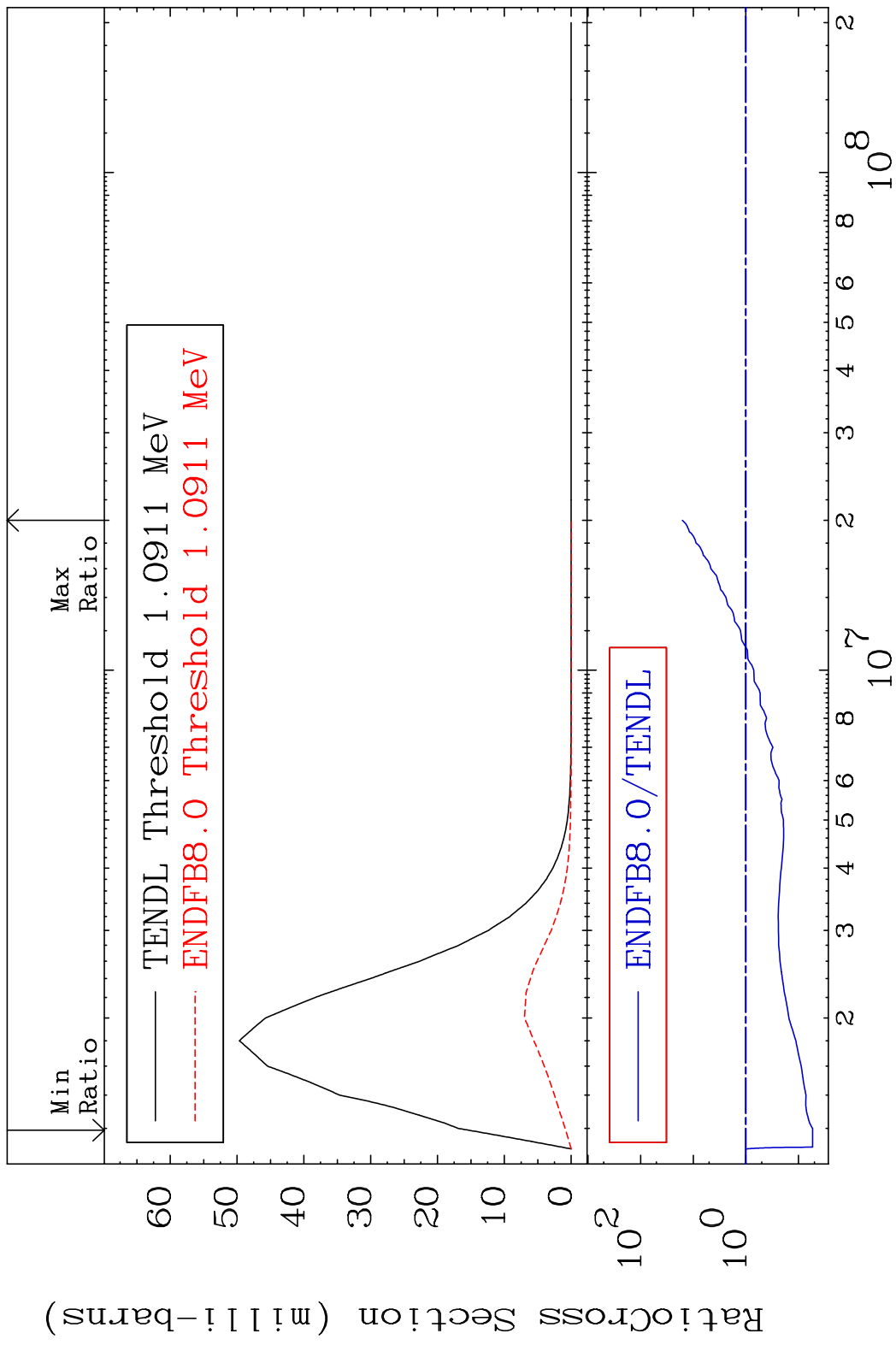


MAT 5829 MT= 66 (n, n') Level 58-Ce-137m
 Cross Section -52.09 To 2901. %

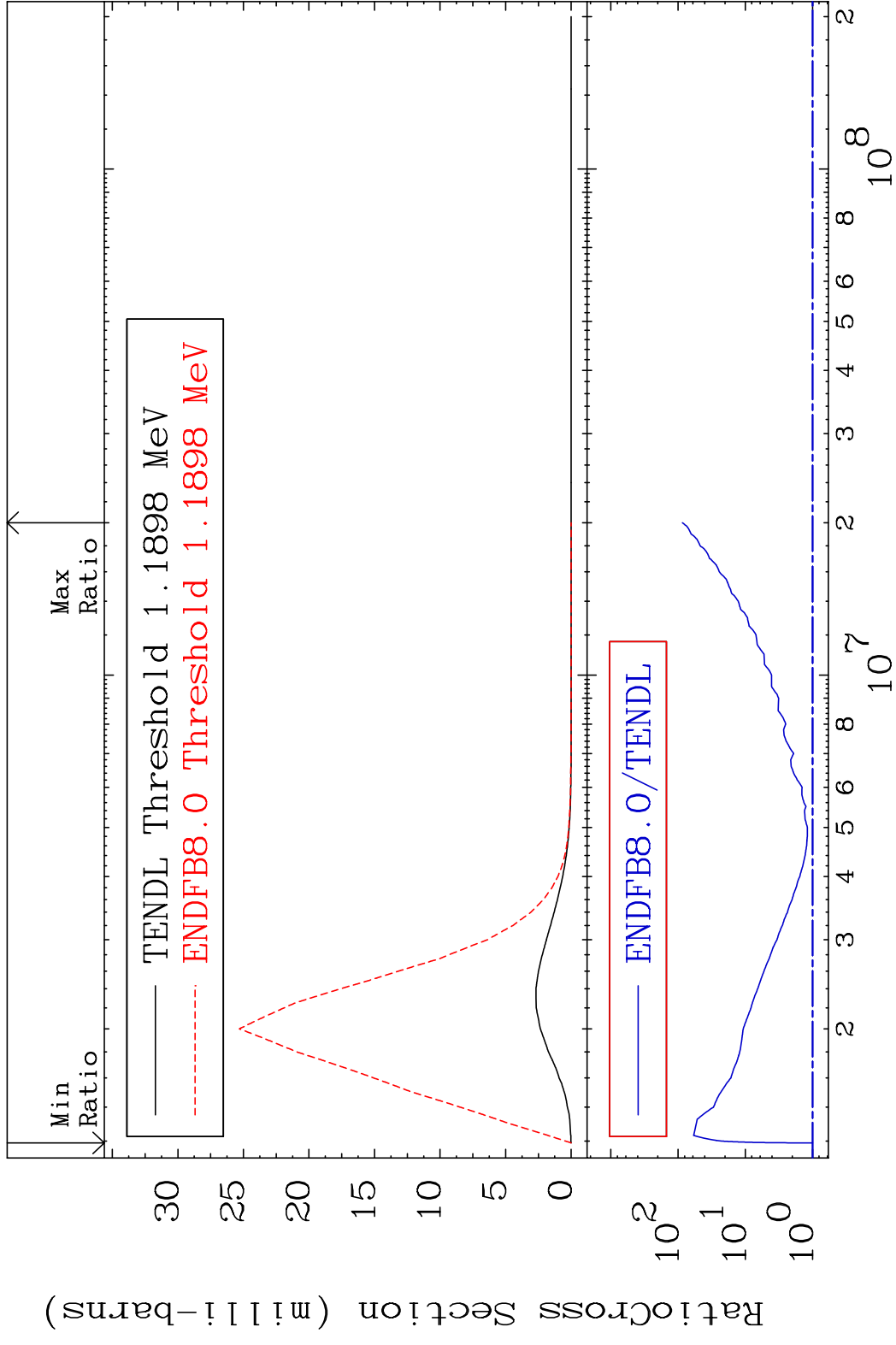


20 Incident Energy (eV) 58-Ce-137m

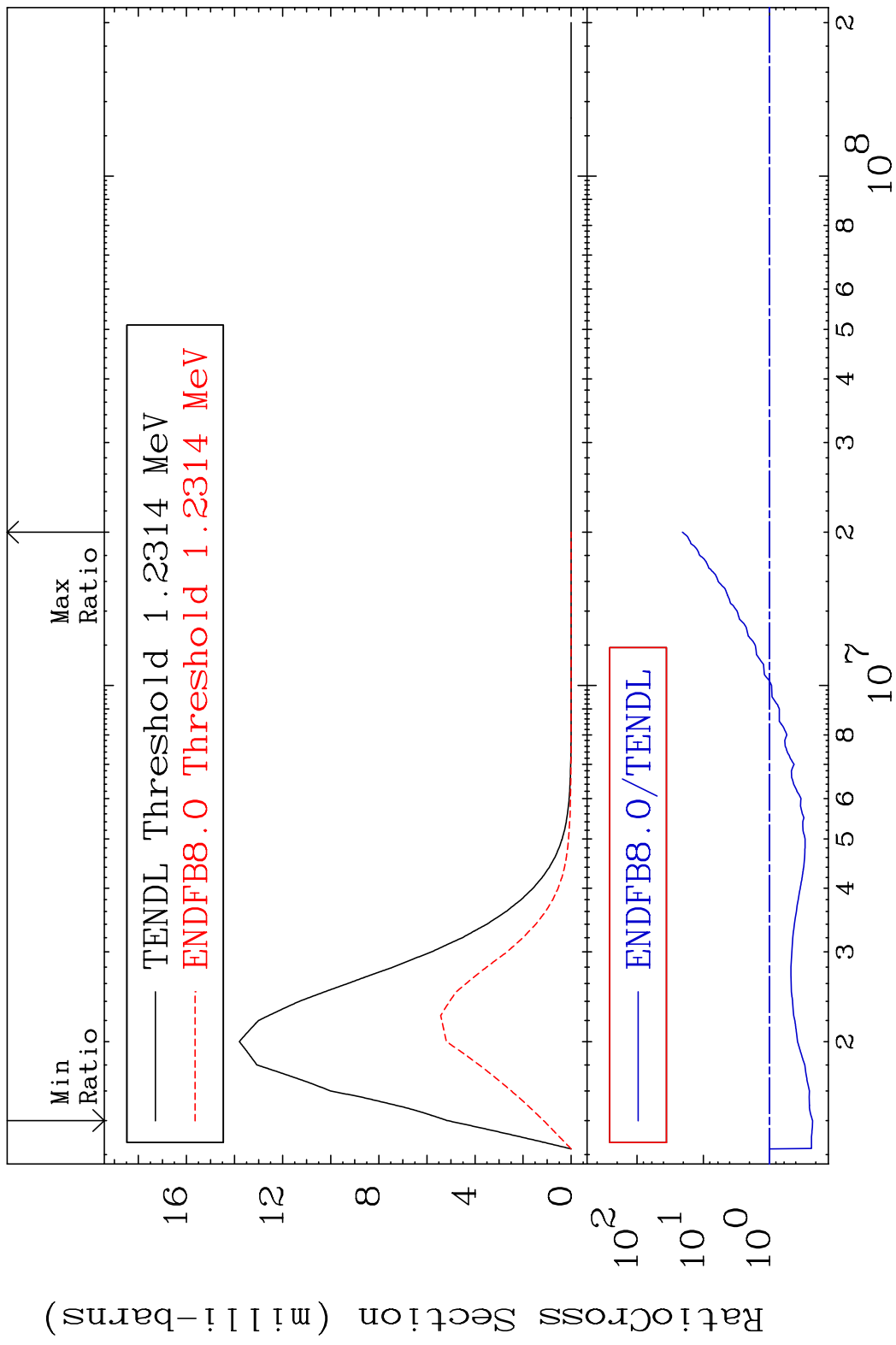
MAT 5829 MT= 67 (n, n') Level 58-Ce-137m
 Cross Section -94.58 To 1510. %



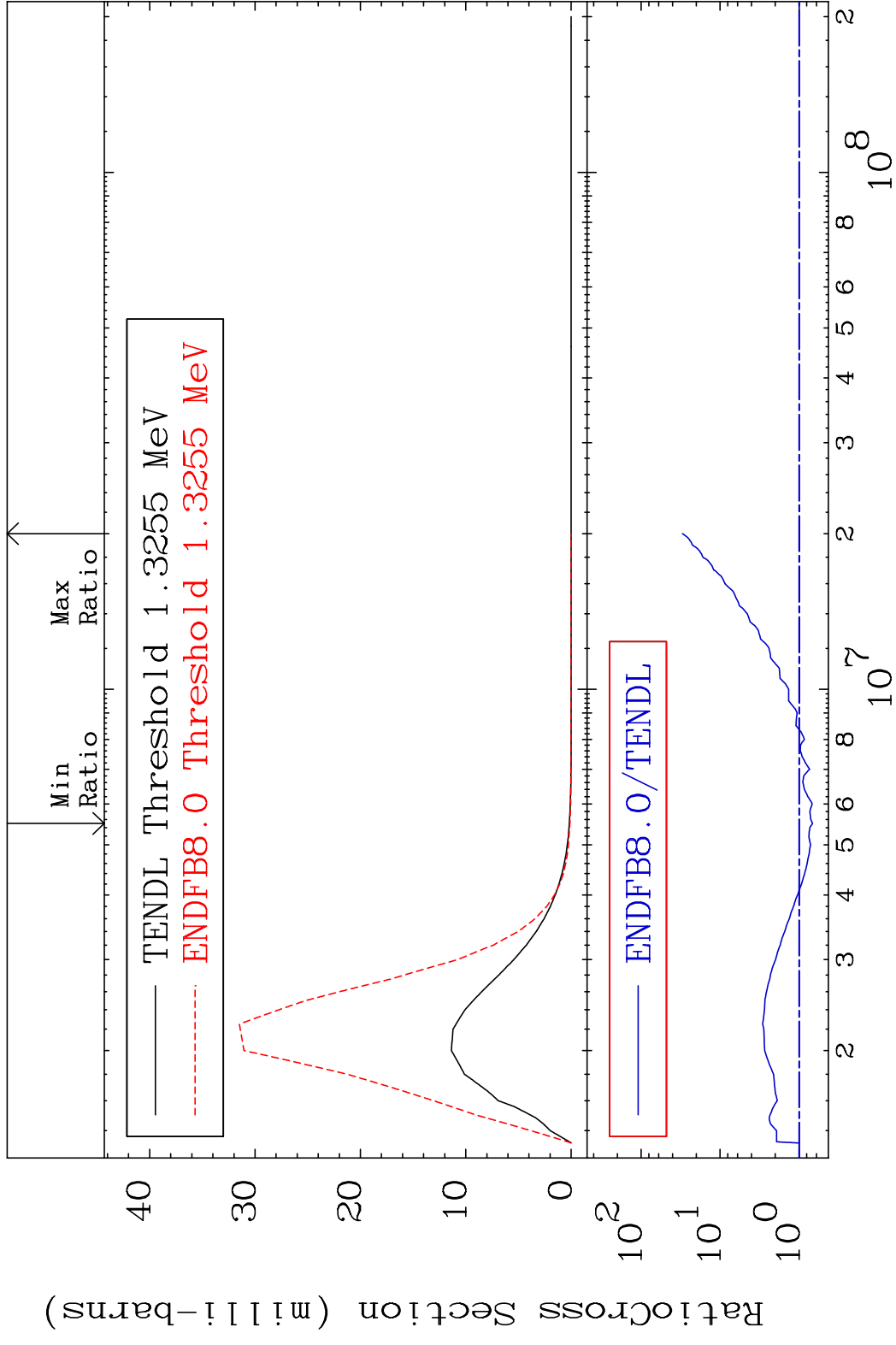
MAT 5829 MT= 68 (n, n') Level 58-Ce-137m
 Cross Section 0.000 To 8536. %



MAT 5829 MT= 69 (n, n') Level 58-Ce-137m
 Cross Section -77.65 To 1969. %



MAT 5829 MT= 70 (n, n') Level 58-Ce-137m
 Cross Section -32.51 To 2907. %

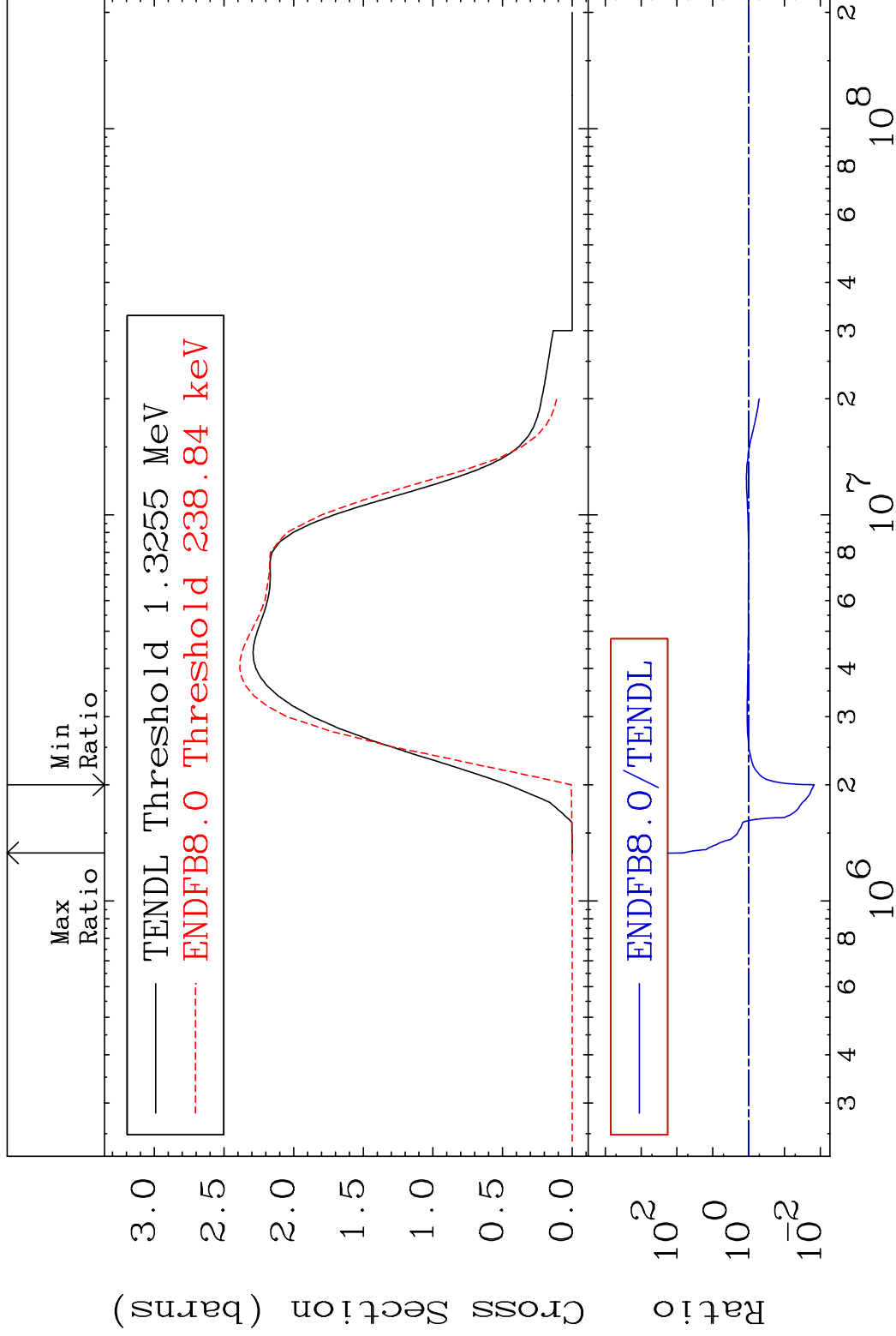


MAT 5829

(n, n') Continuum

58-Ce-137m

Cross Section -98.52 To 6389. %



25

Incident Energy (eV)

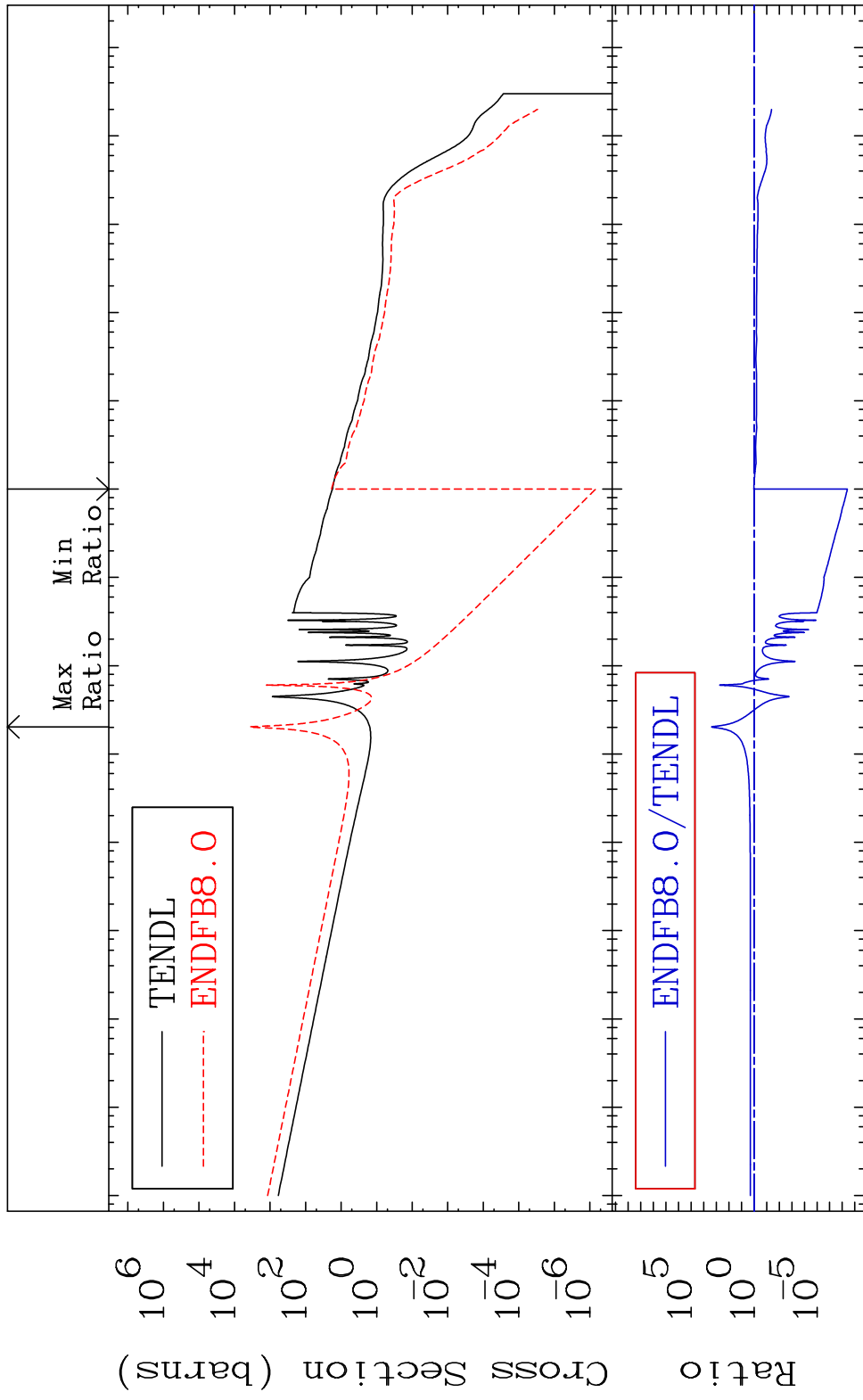
58-Ce-137m

MAT 5829

(n, γ)

58-Ce-137m

Cross Section -100.0 To 9999. %



26

Incident Energy (eV)

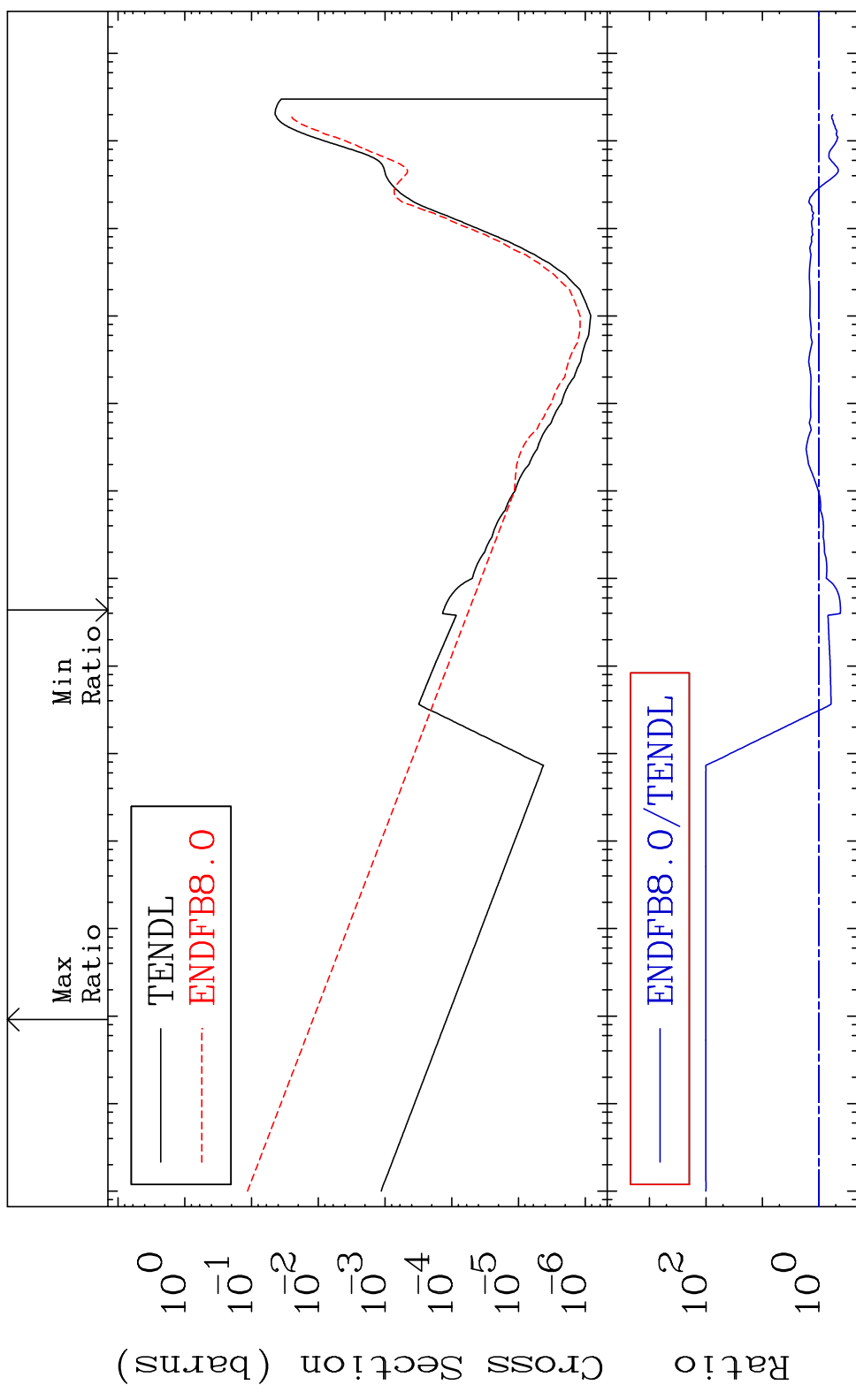
58-Ce-137m

MAT 5829

(n, p)

58-Ce-137m

Cross Section -58.53 To 9970. %

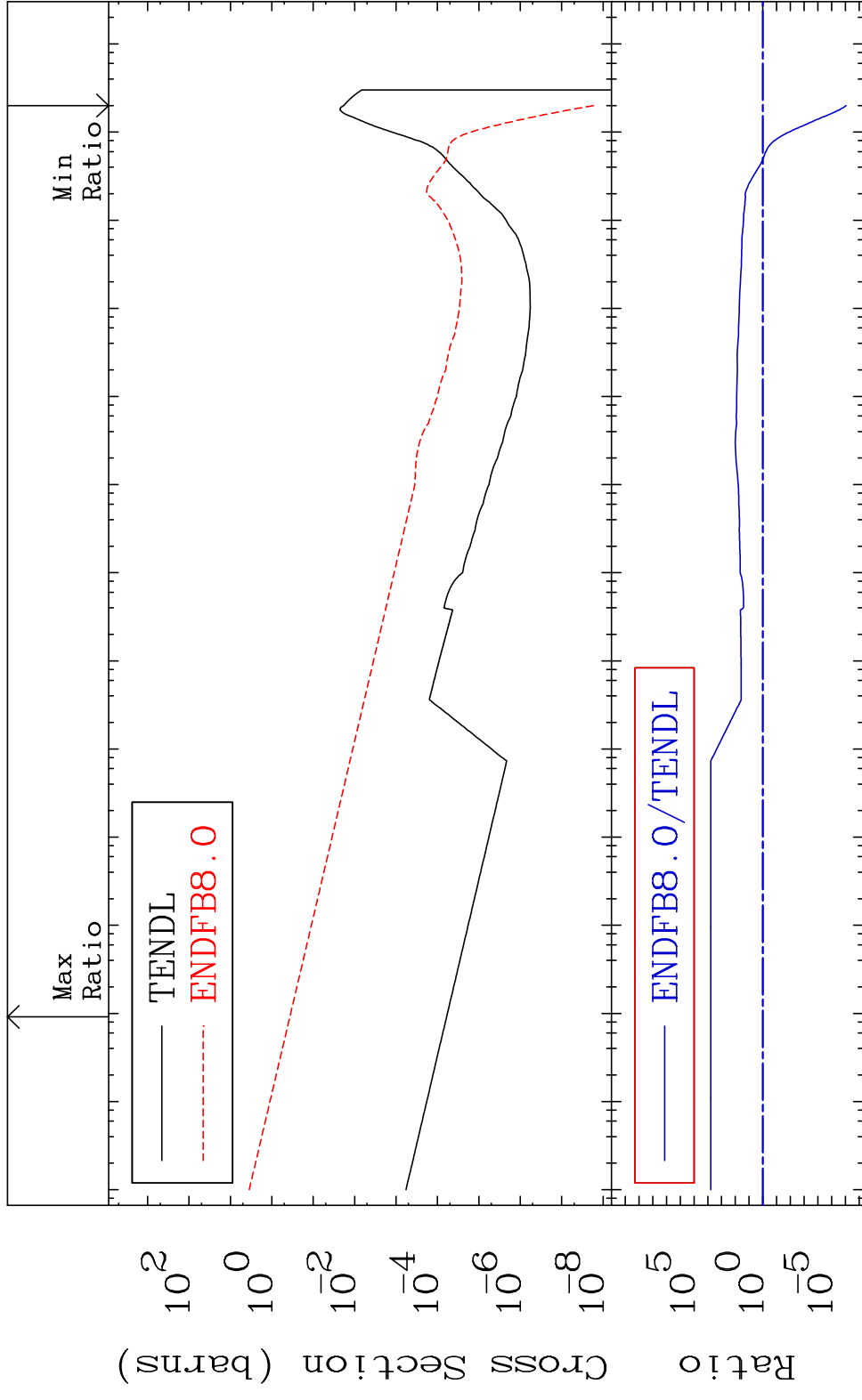


27

Incident Energy (eV)

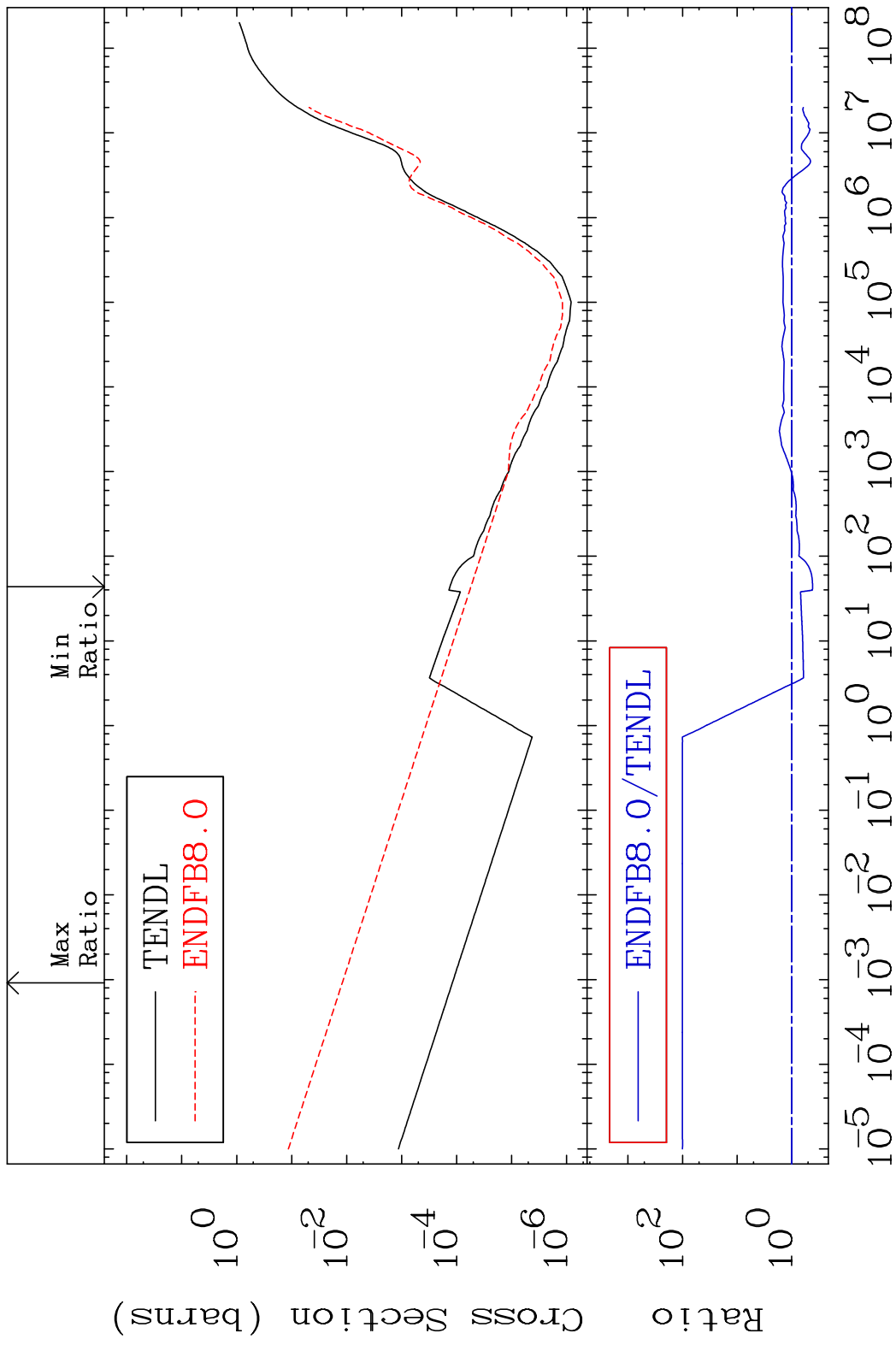
58-Ce-137m

MAT 5829 (n, α) 58-Ce-137m
 Cross Section -100.0 To 9999. %



28 Incident Energy (eV) 58-Ce-137m

MAT 5829 Hydrogen Production 58-Ce-137m
 Cross Section -58.53 To 9970. %



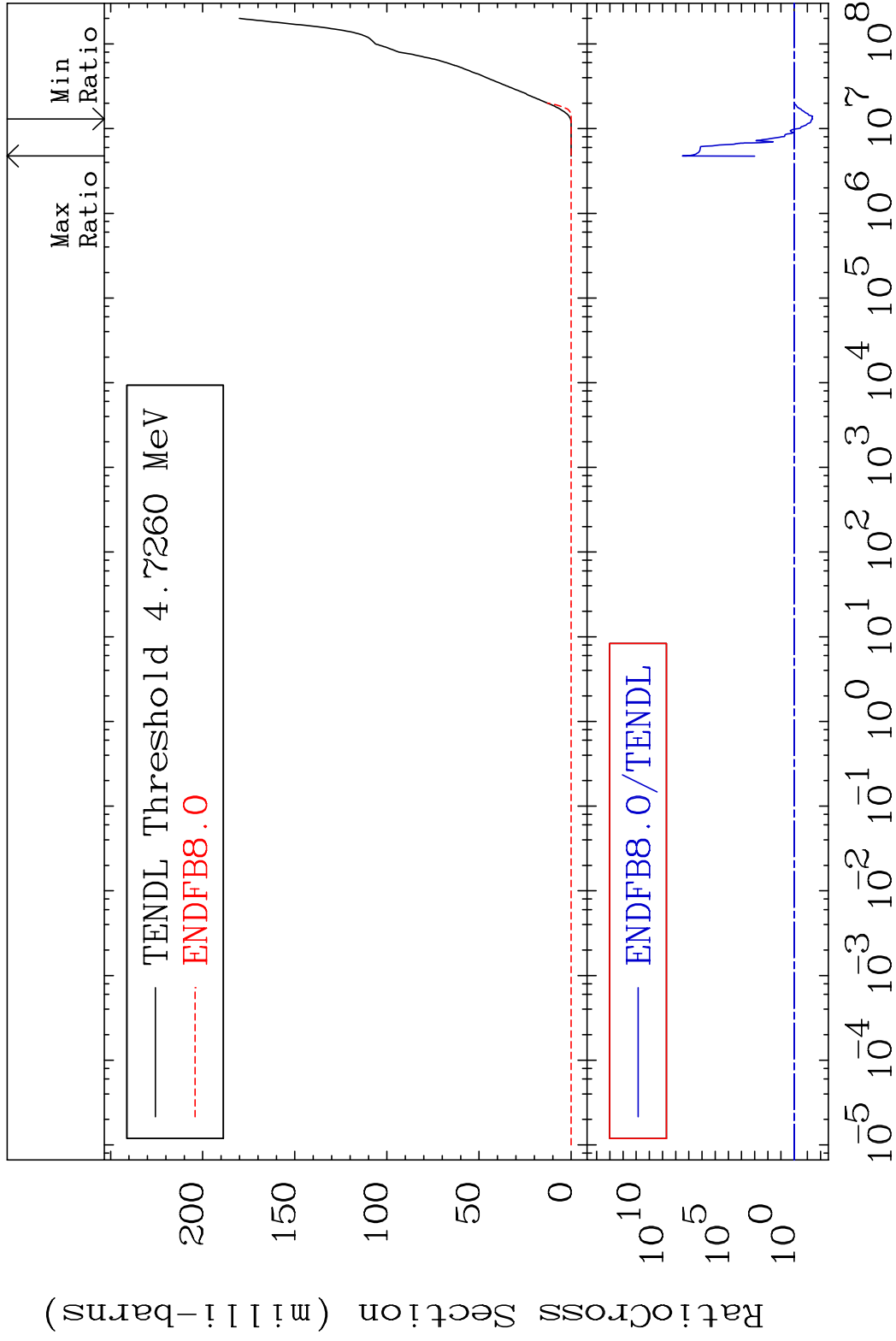
29 Incident Energy (eV) 58-Ce-137m

MAT 5829

Deuterium Production

58-Ce-137m

Cross Section -95.98 To 9999. %



30

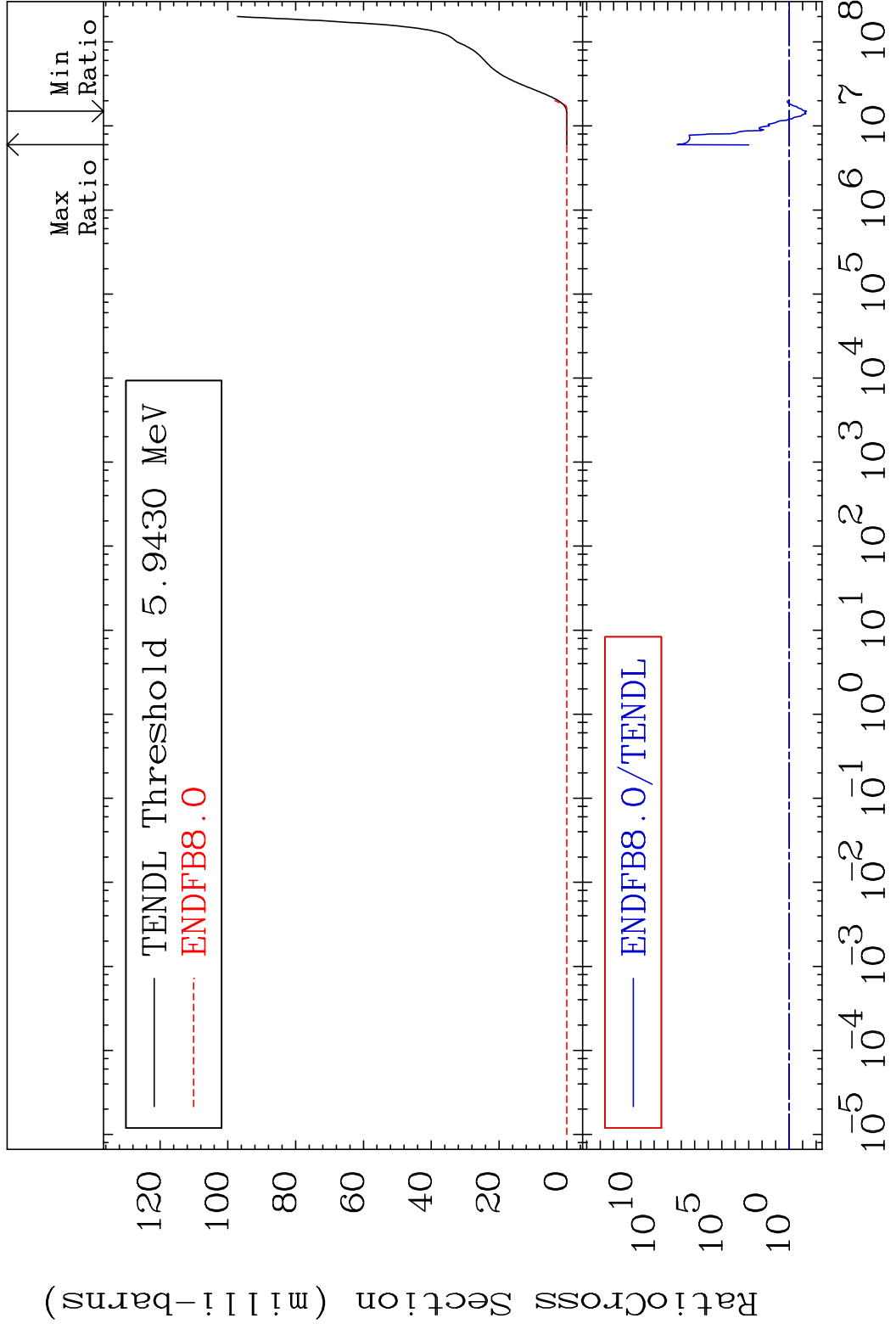
Incident Energy (eV)

58-Ce-137m

MAT 5829

Tritium Production
Cross Section -94.68 To 9999. %

58-Ce-137m



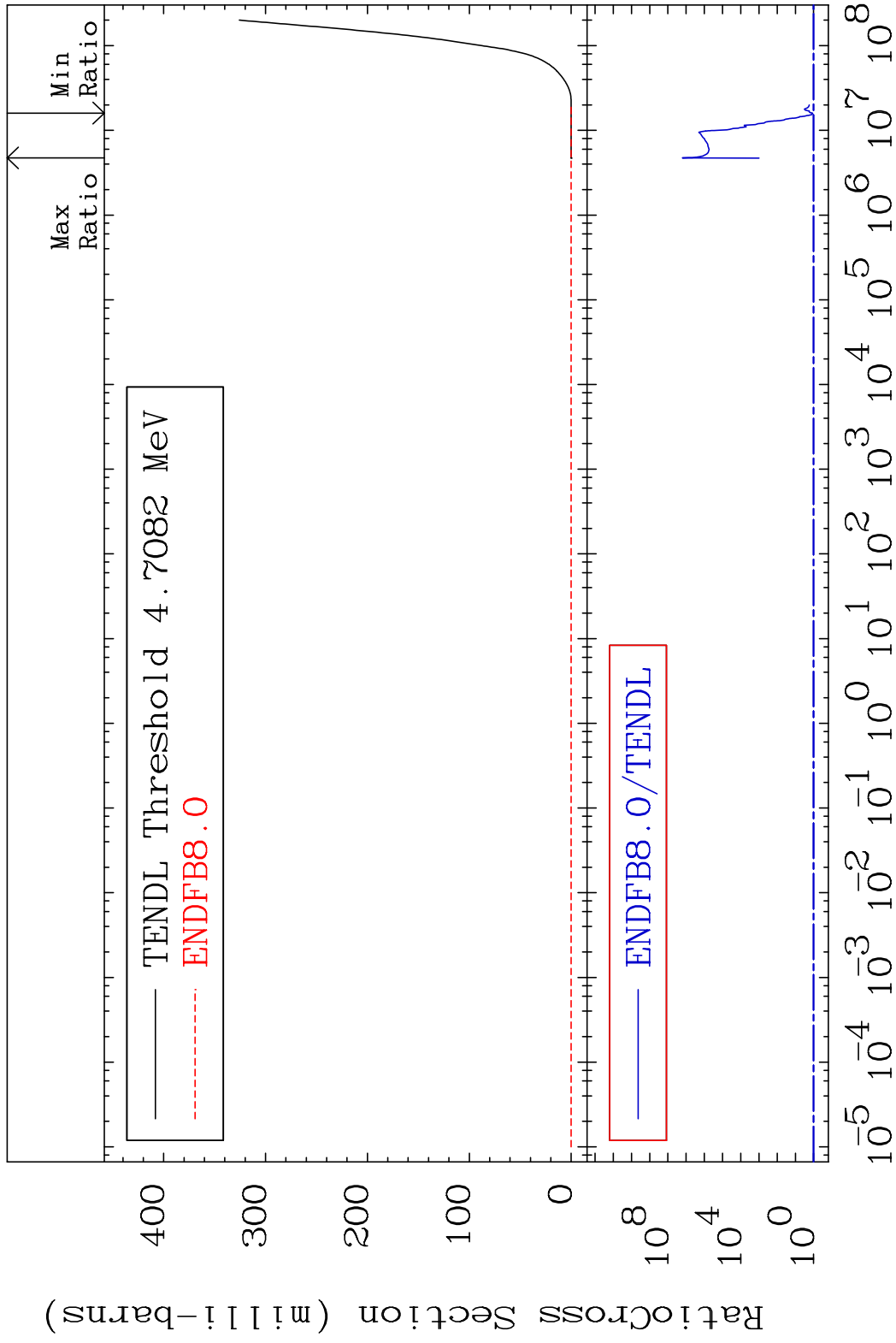
MAT 5829

He-3 Production

58-Ce-137m

Cross Section 14.37

To 9999. %

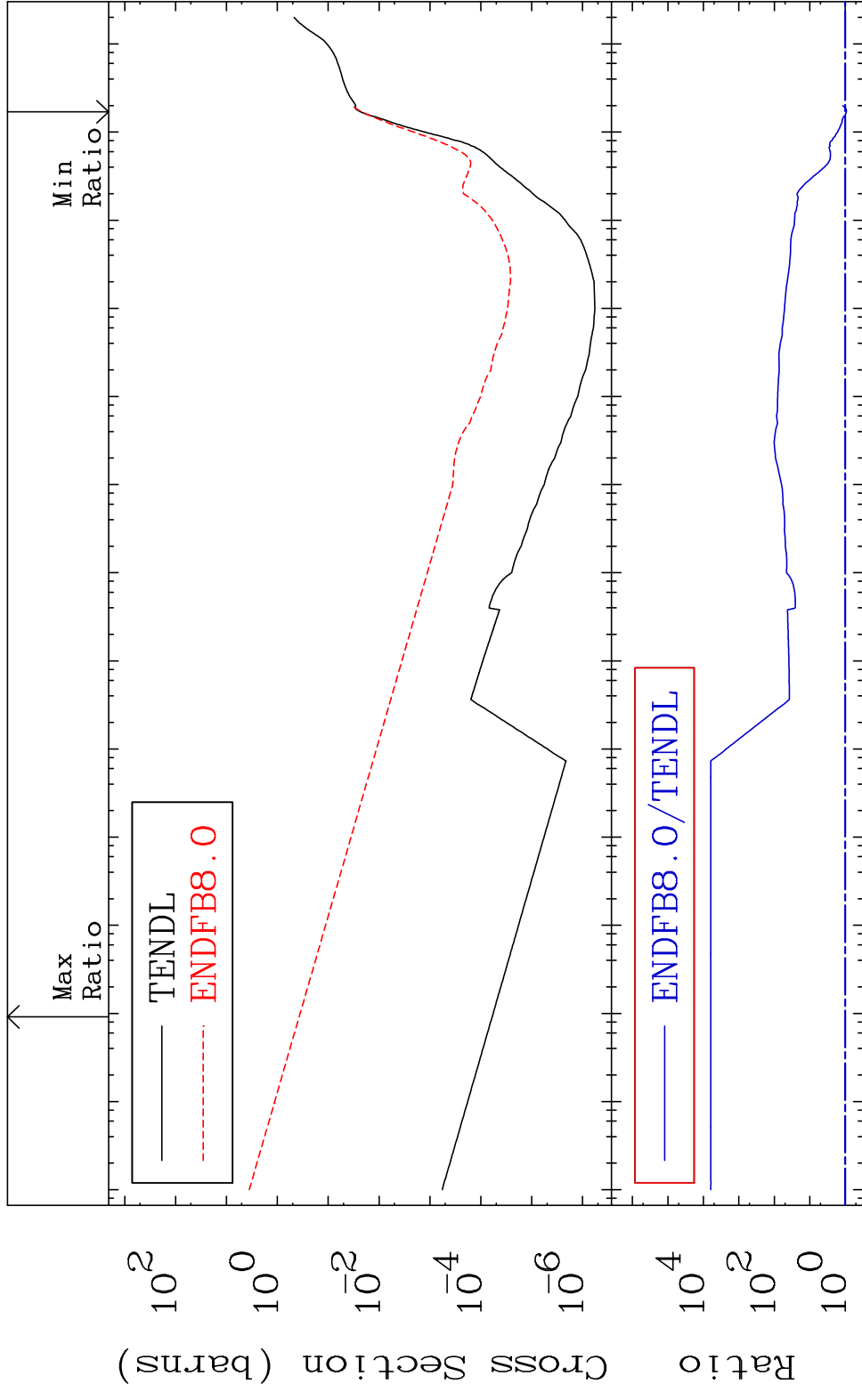


32

Incident Energy (eV)

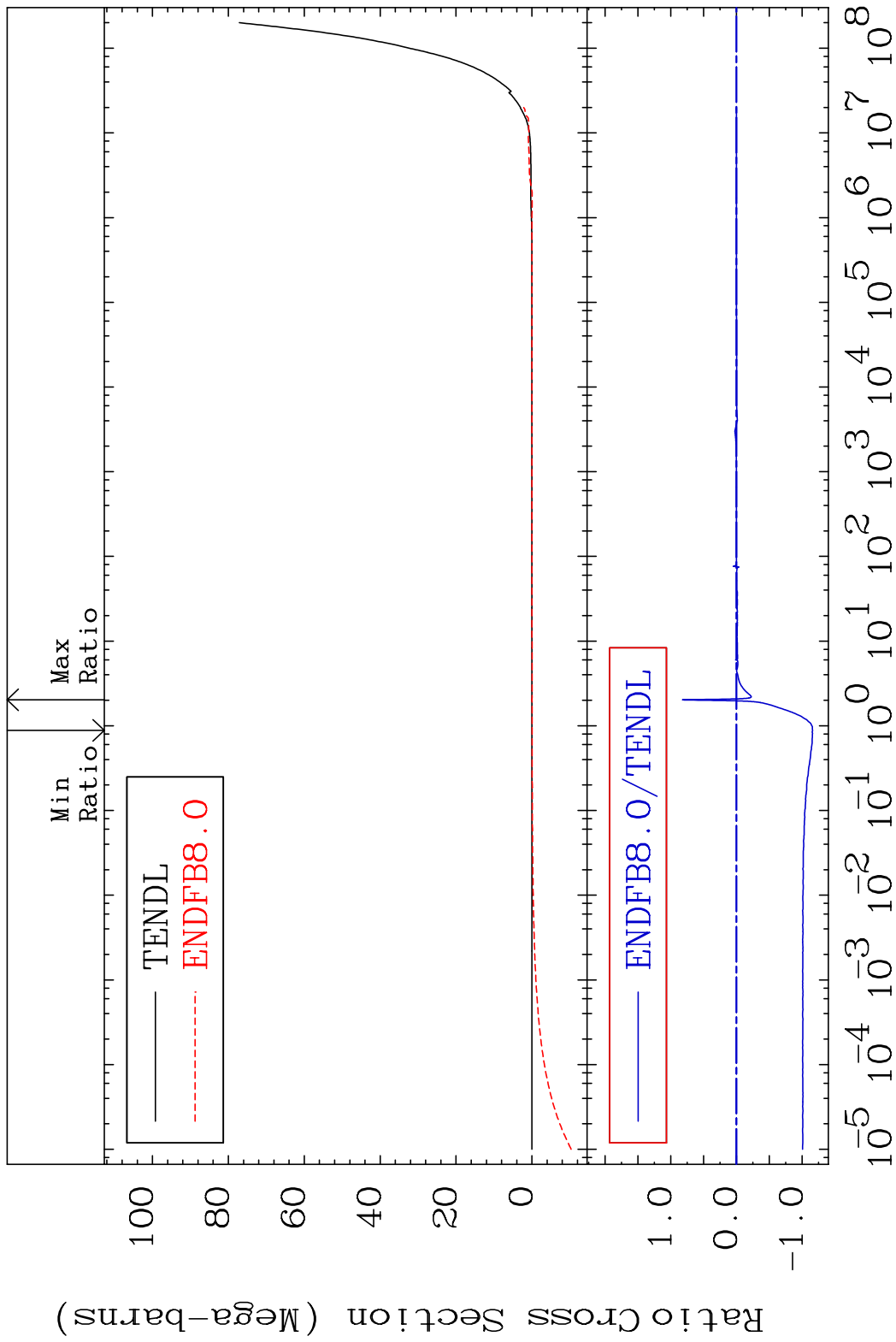
58-Ce-137m

MAT 5829 He-4 Production 58-Ce-137m
 Cross Section -6.395 To 9999. %



33 Incident Energy (eV) 58-Ce-137m

MAT 5829 Kerma total (eV-barns) 58-Ce-137m
 Cross Section -9999. To 9999. %

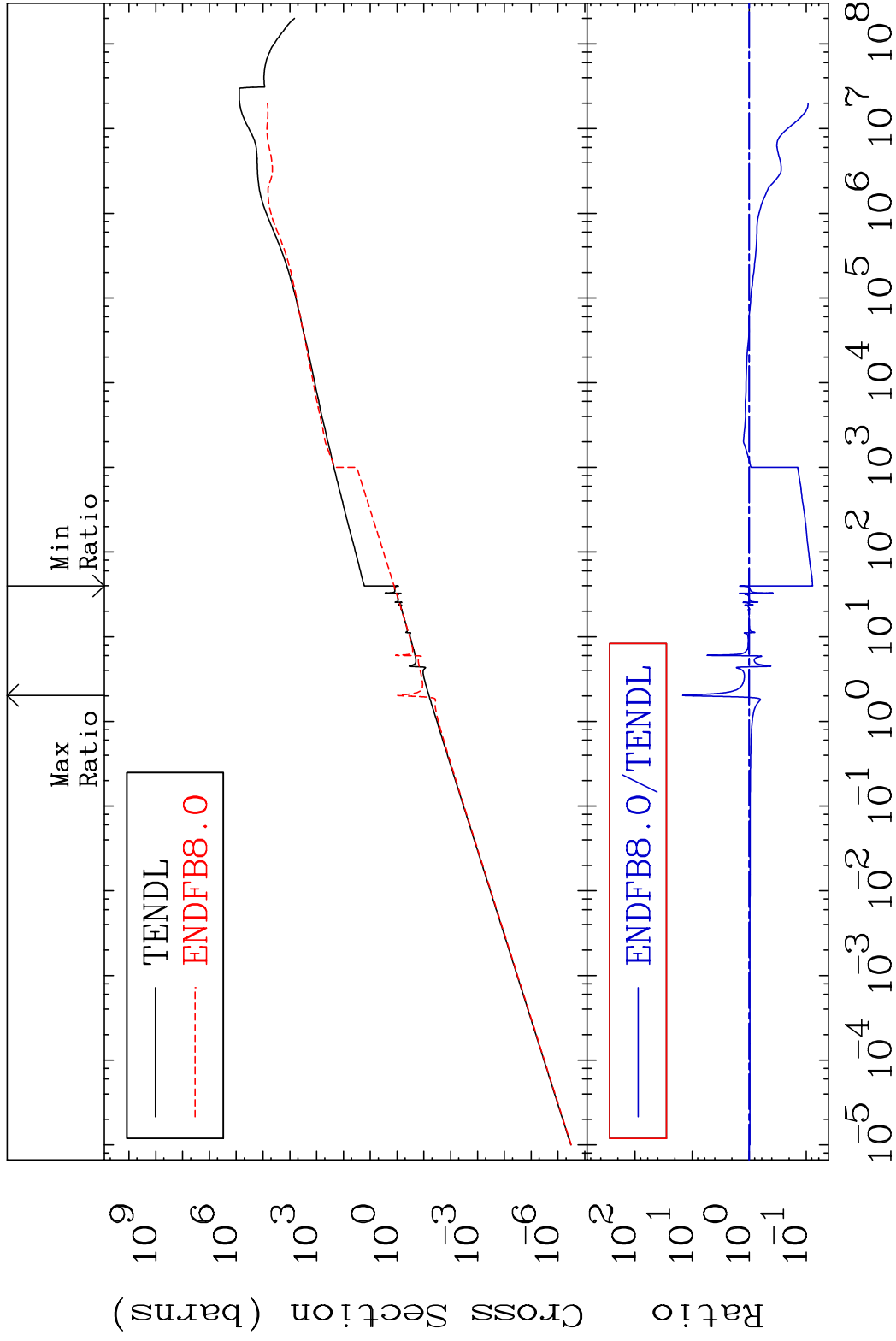


34 Incident Energy (eV) 58-Ce-137m

MAT 5829

Kerma elastic
Cross Section

58-Ce-137m
-92.27 To 1381. %

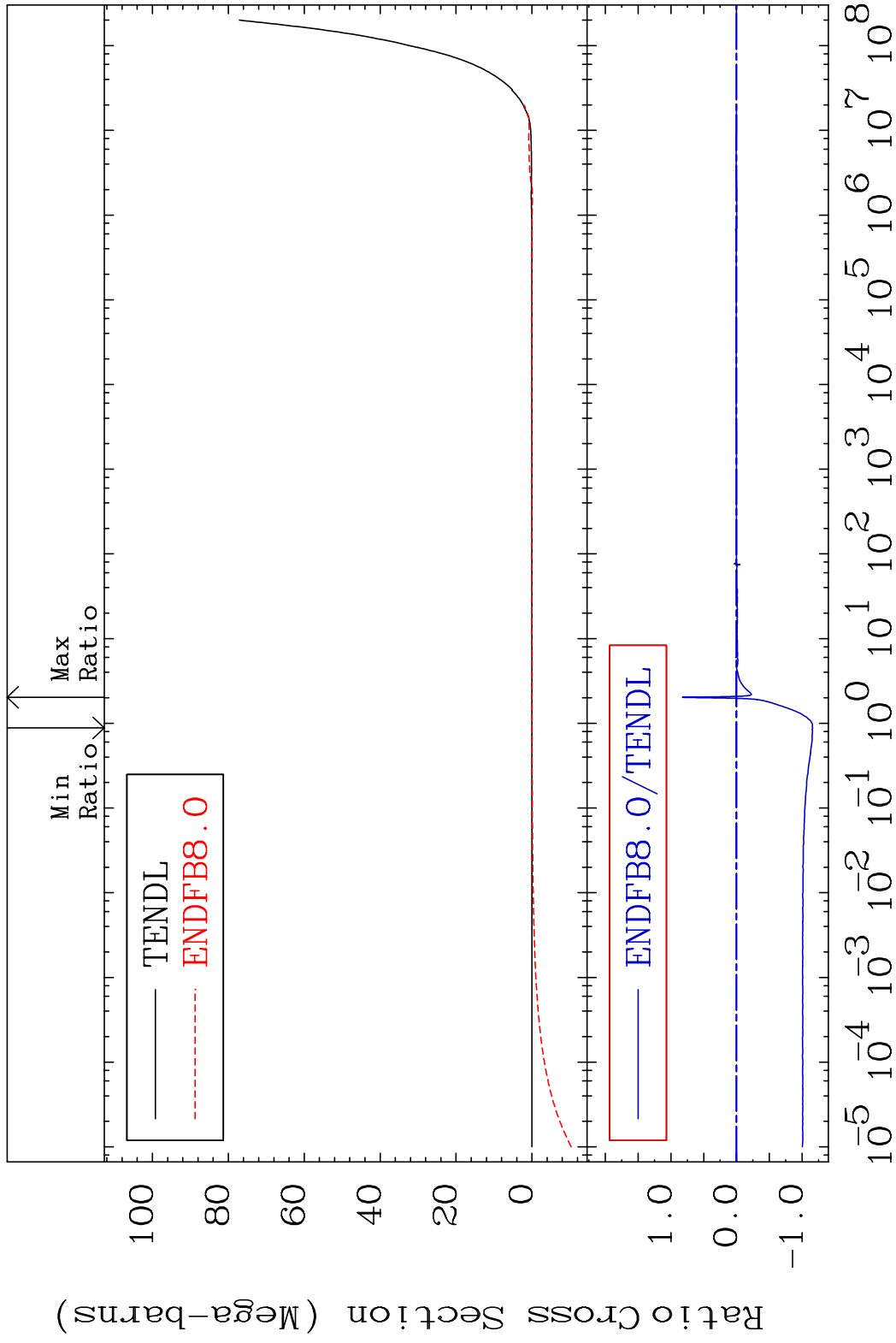


35

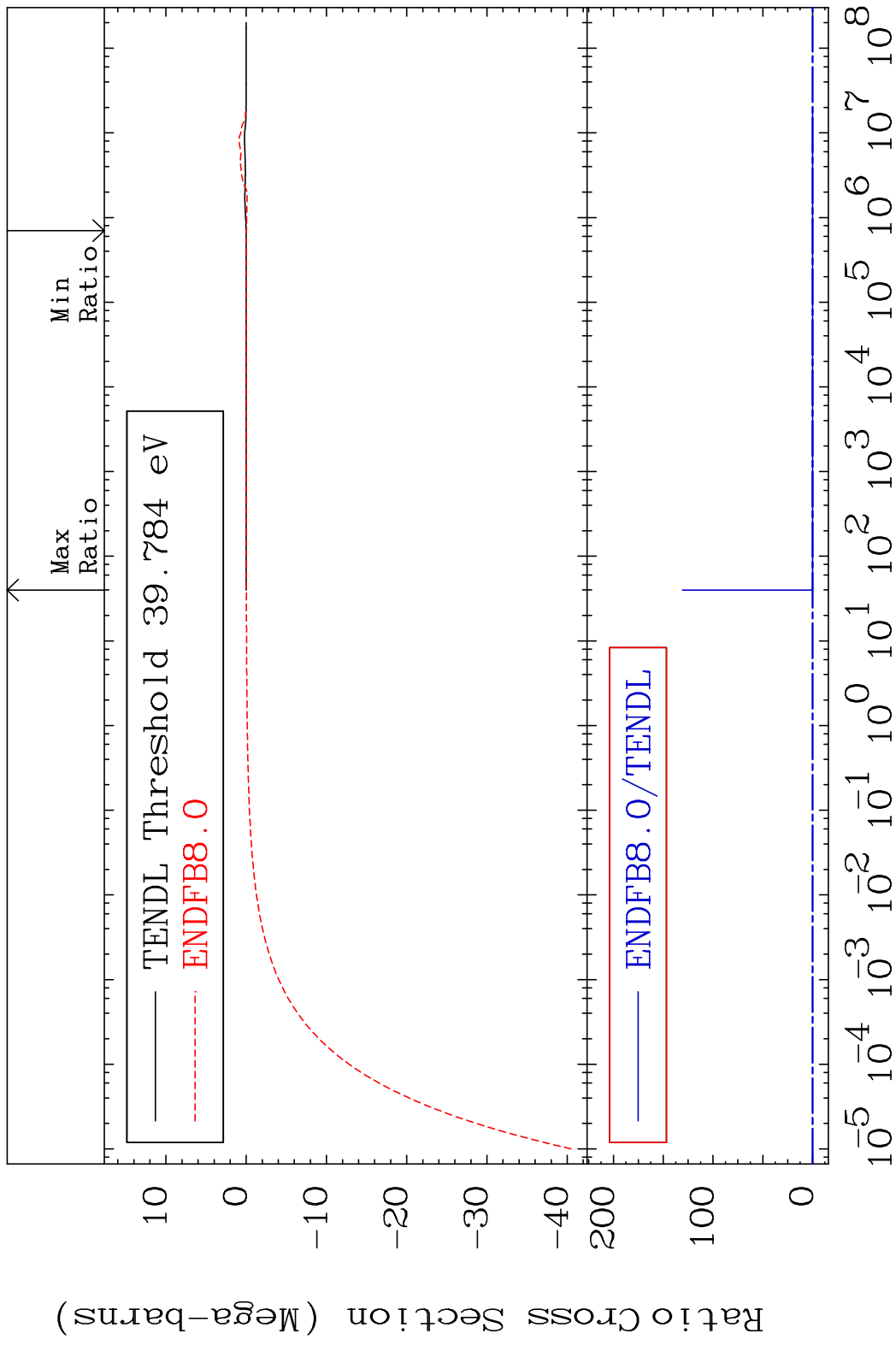
Incident Energy (eV)

58-Ce-137m

MAT 5829 Kerma non-elastic (all but mt2) 58-Ce-137m
 Cross Section -9999. To 9999. %

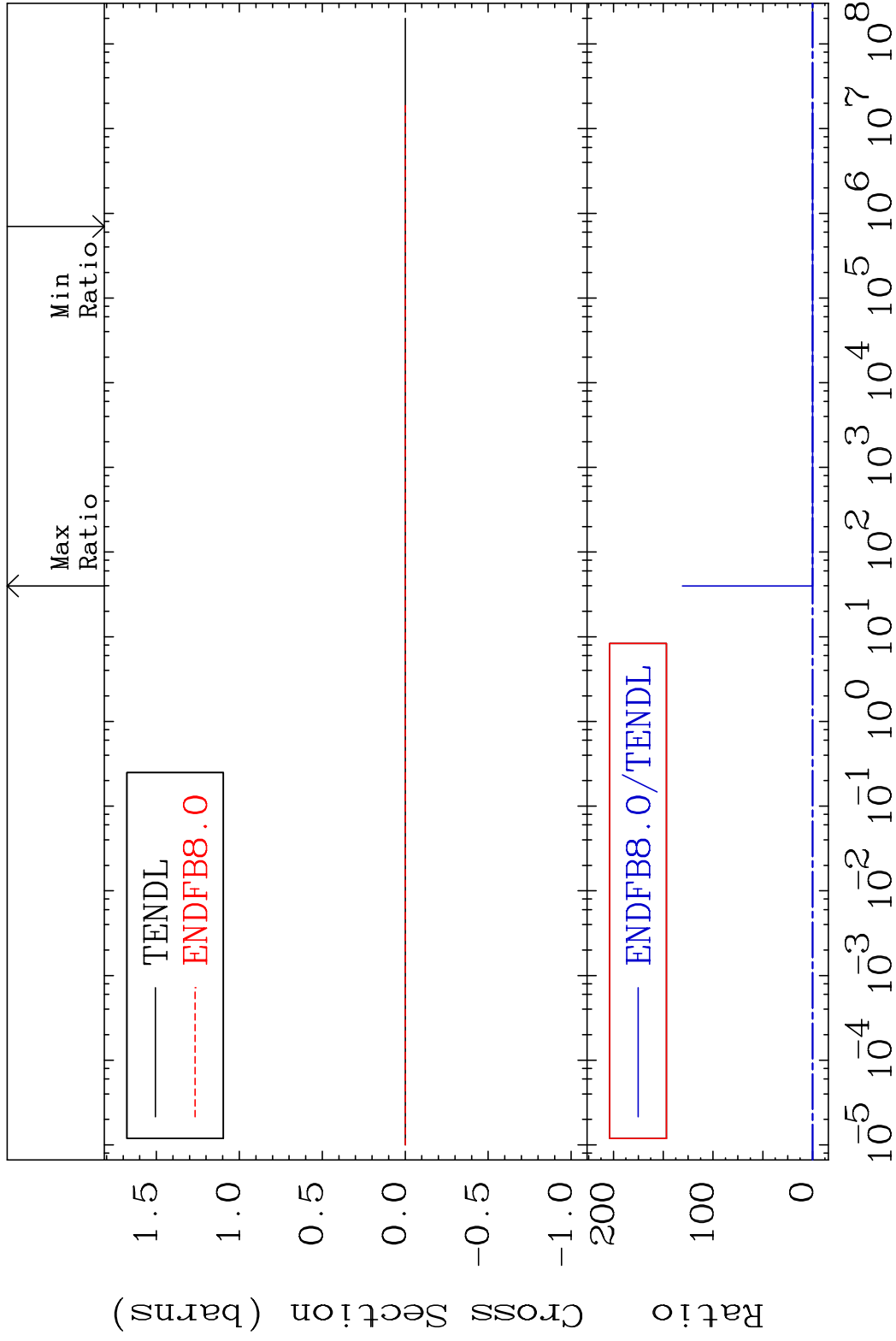


MAT 5829 Kerma inelastic (mt51-91) 58-Ce-137m
 Cross Section -305.5 To 9999. %



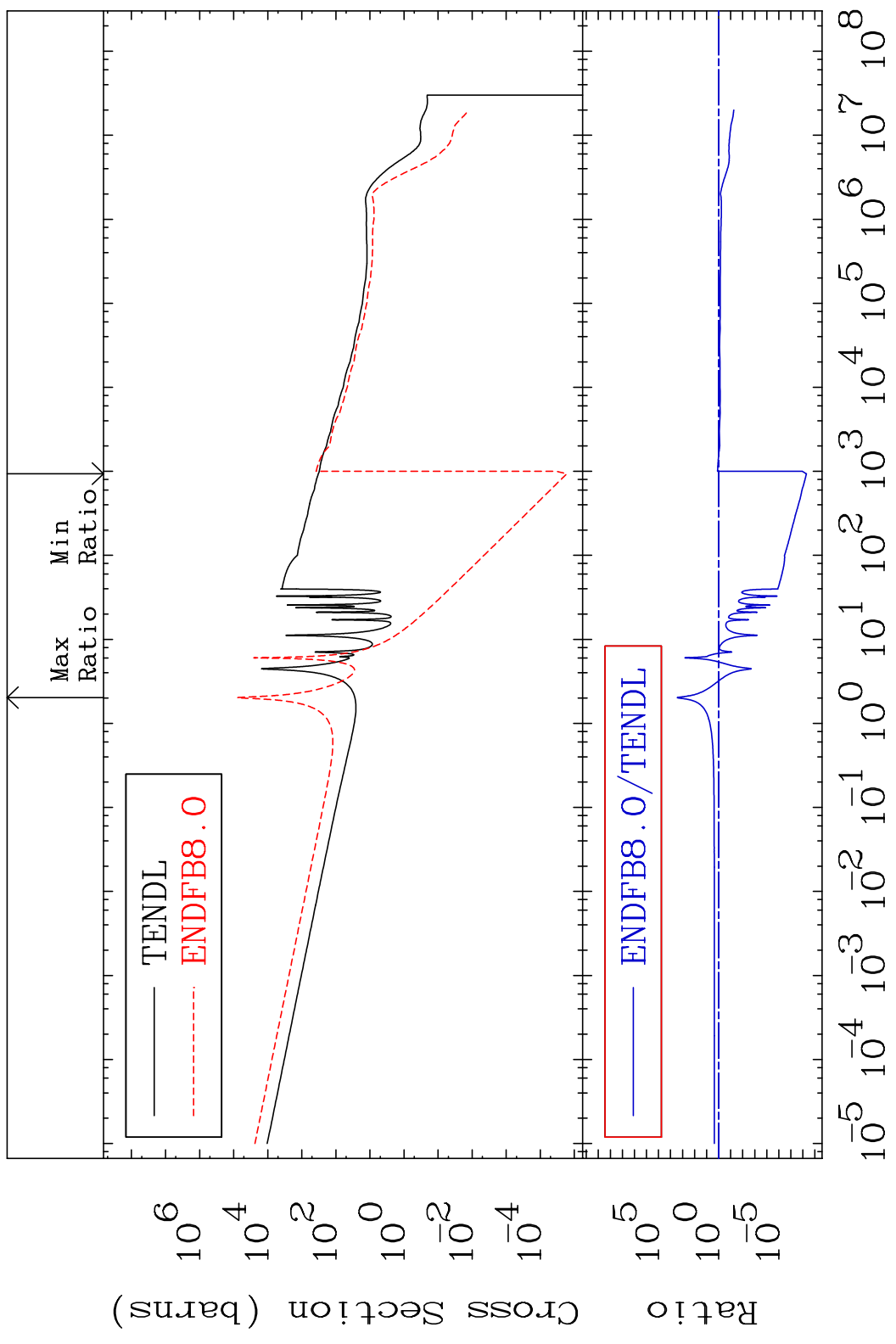
37 Incident Energy (eV) 58-Ce-137m

MAT 5829 Kerma fission (mt18 or mt19-20-21-35) ~~58~~ Ce-137m
 Cross Section -305.5 To 9999. %



MAT 5829

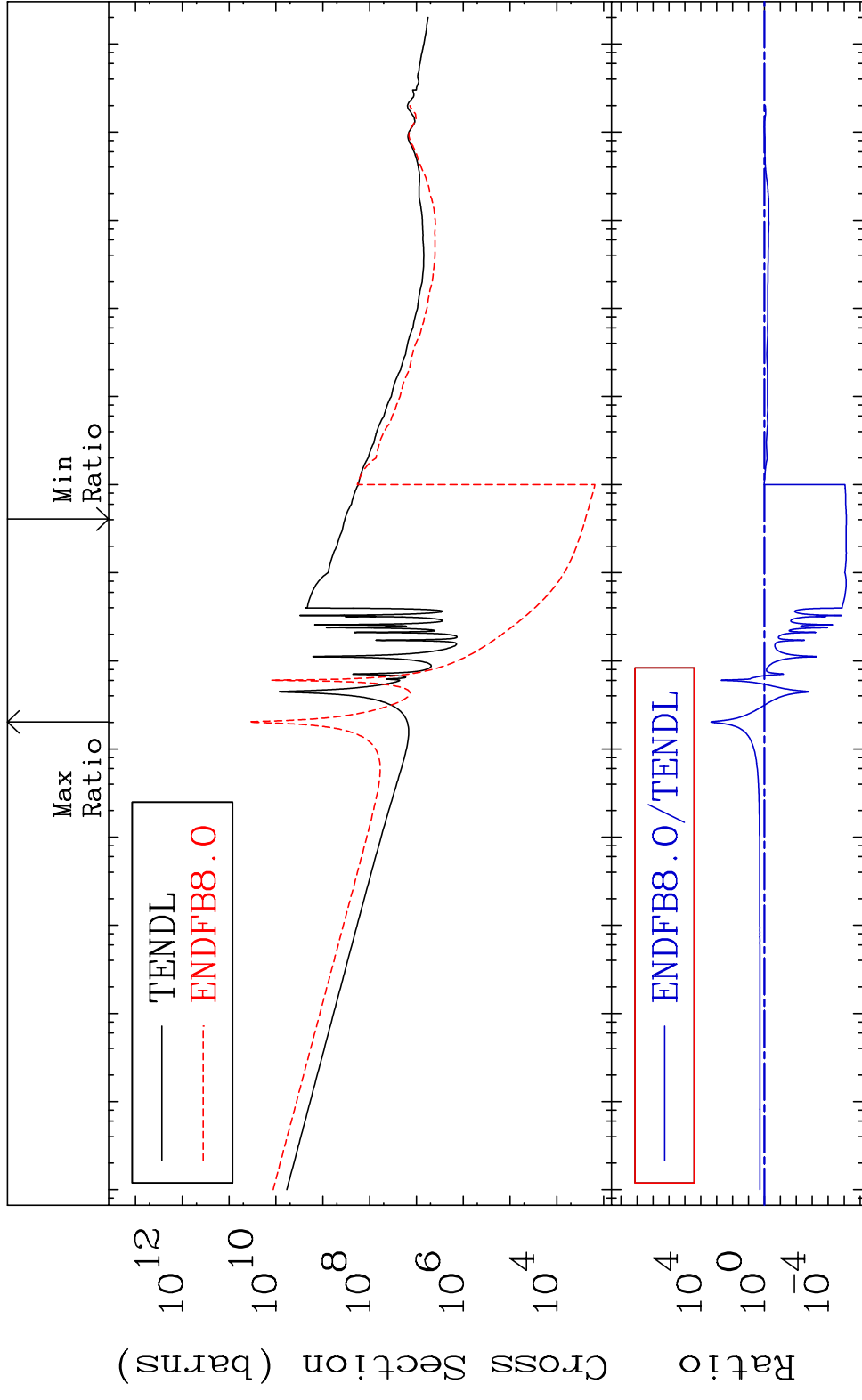
Kerma capture (mt102) 58-Ce-137m
Cross Section -100.0 To 9999. %



39

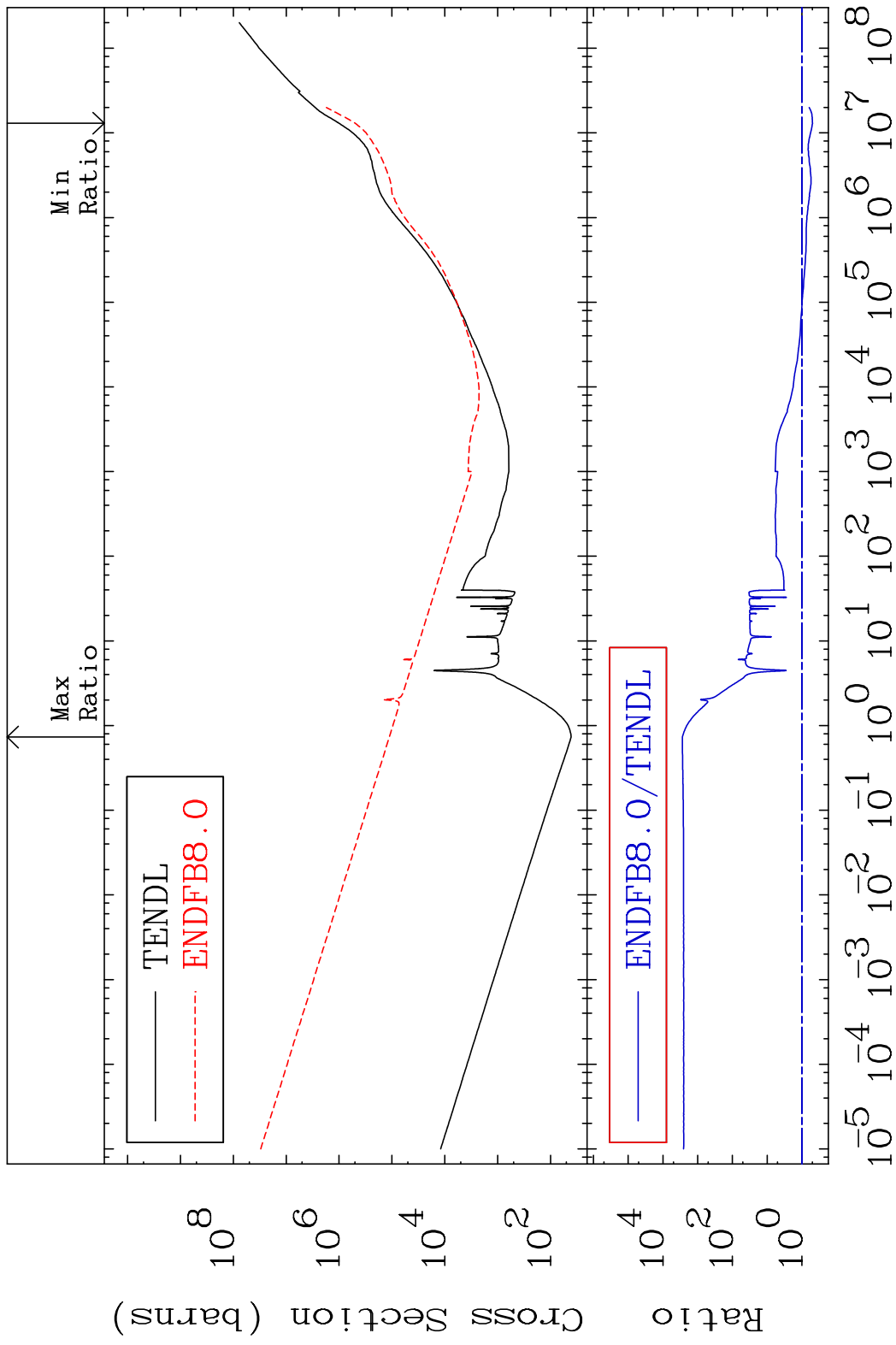
Incident Energy (eV) 58-Ce-137m

MAT 5829 Total photon (eV-barns) 58-Ce-137m
 Cross Section -100.0 To 9999. %



40 Incident Energy (eV) 58-Ce-137m

MAT 5829 Total kinematic kerma (high limit)58-Ce-137m
 Cross Section -50.75 To 9999. %

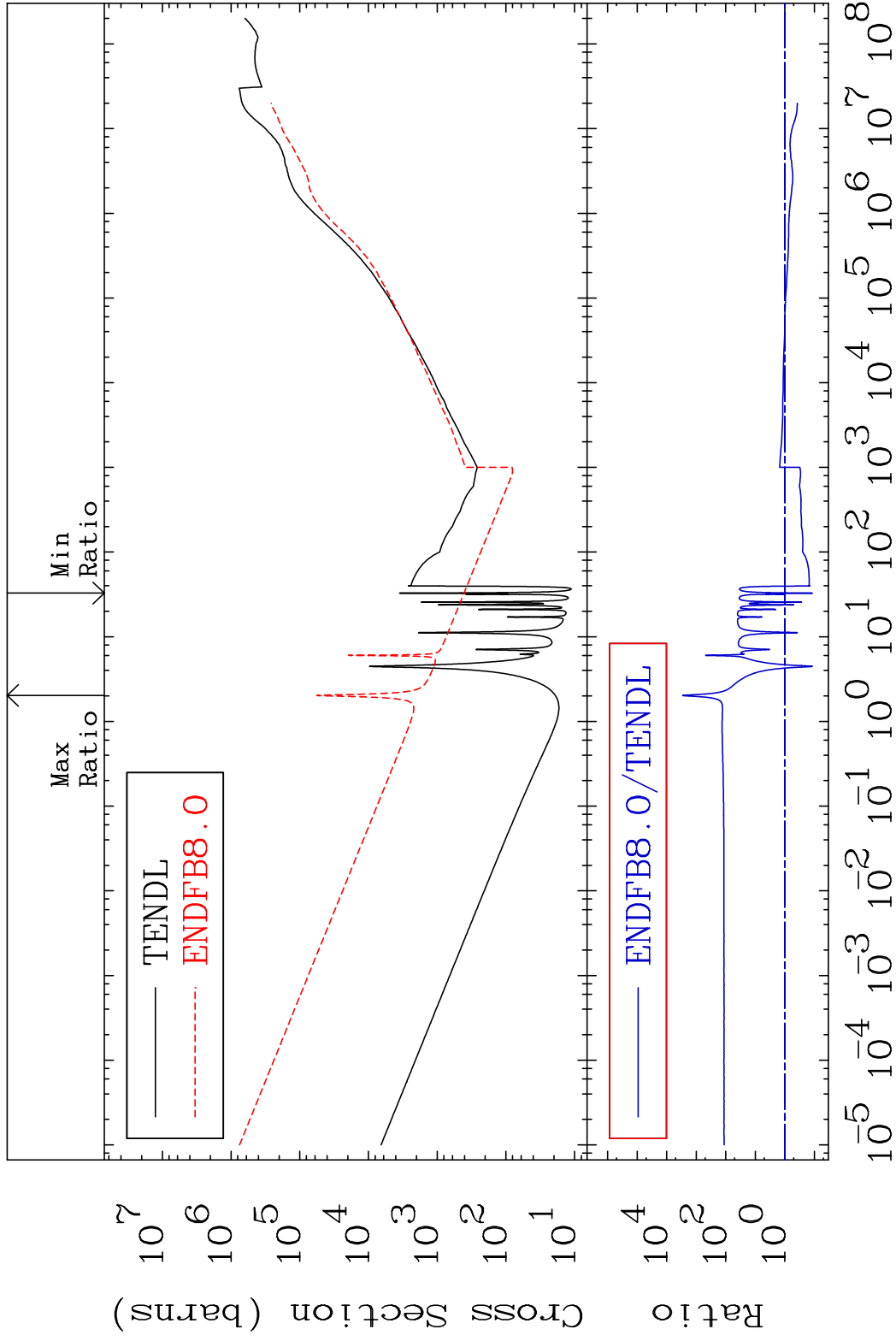


MAT 5829

Dpa total (eV-barns)

58-Ce-137m

Cross Section -88.45 To 9999. %



42

Incident Energy (eV)

58-Ce-137m

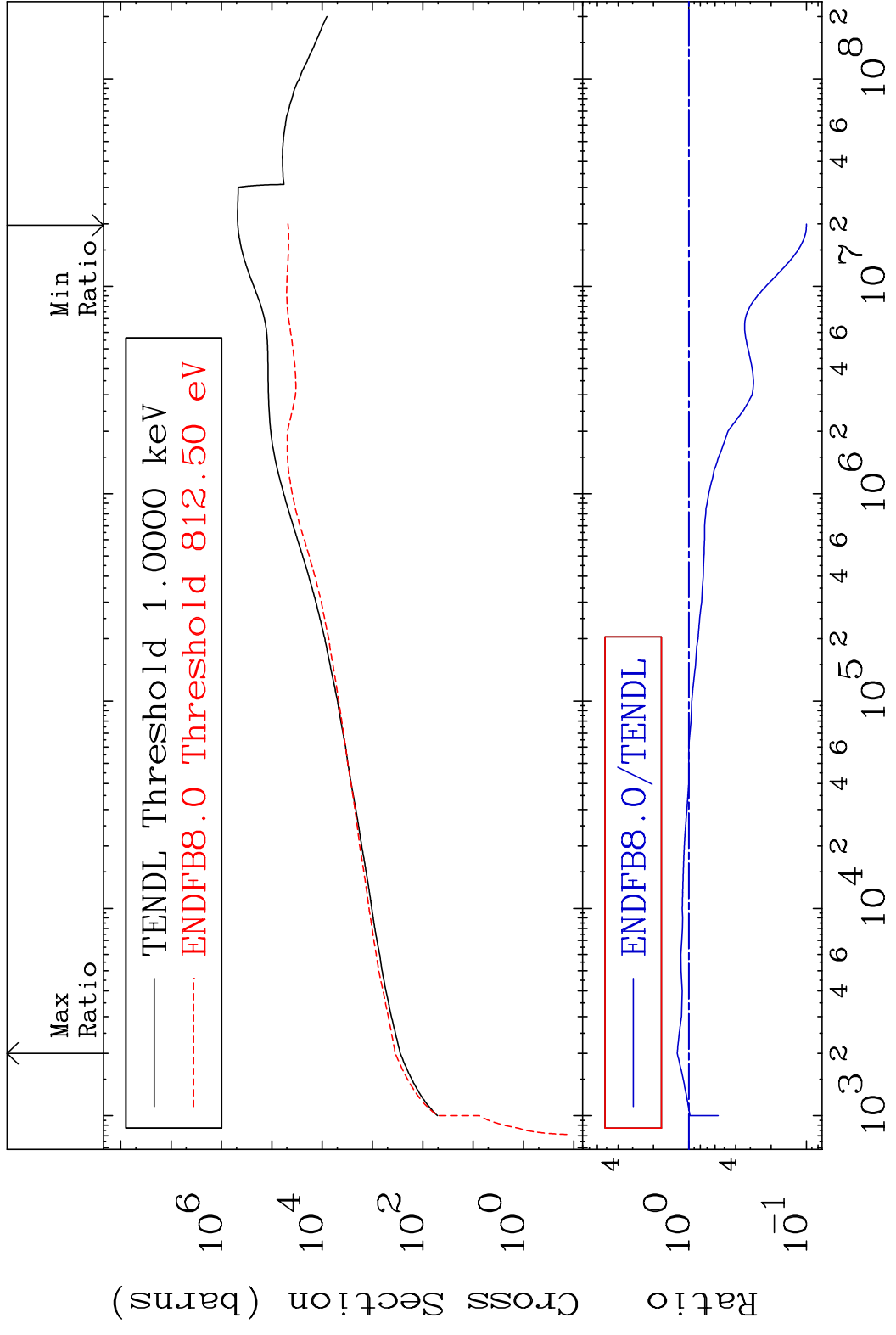
MAT 5829

Dpa elastic (mt2)

58-Ce-137m

Cross Section

-89.98 To 25.67 %

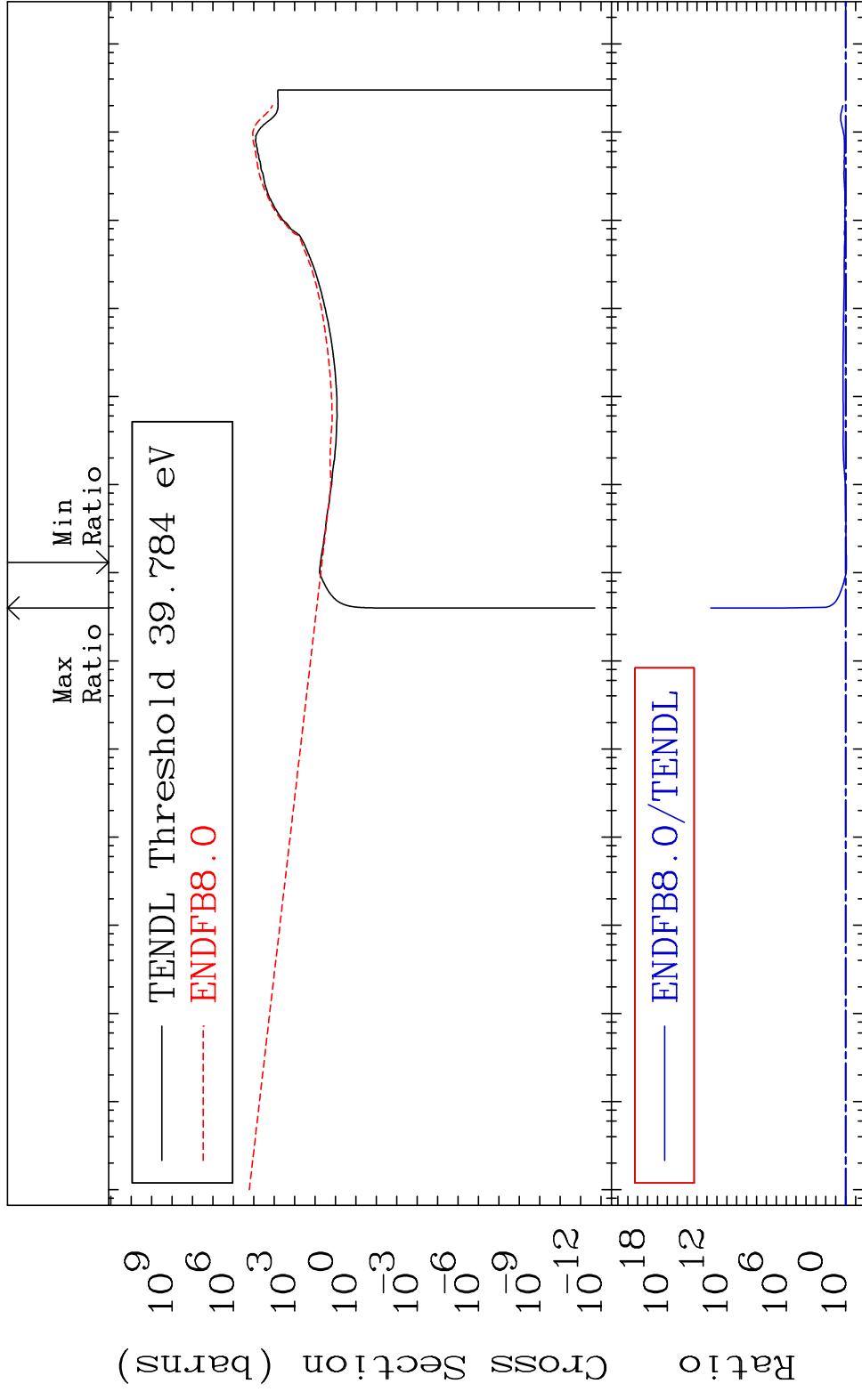


43

Incident Energy (eV)

58-Ce-137m

MAT 5829 Dpa inelastic (mt51-91) 58-Ce-137m
 Cross Section -14.86 To 9999. %



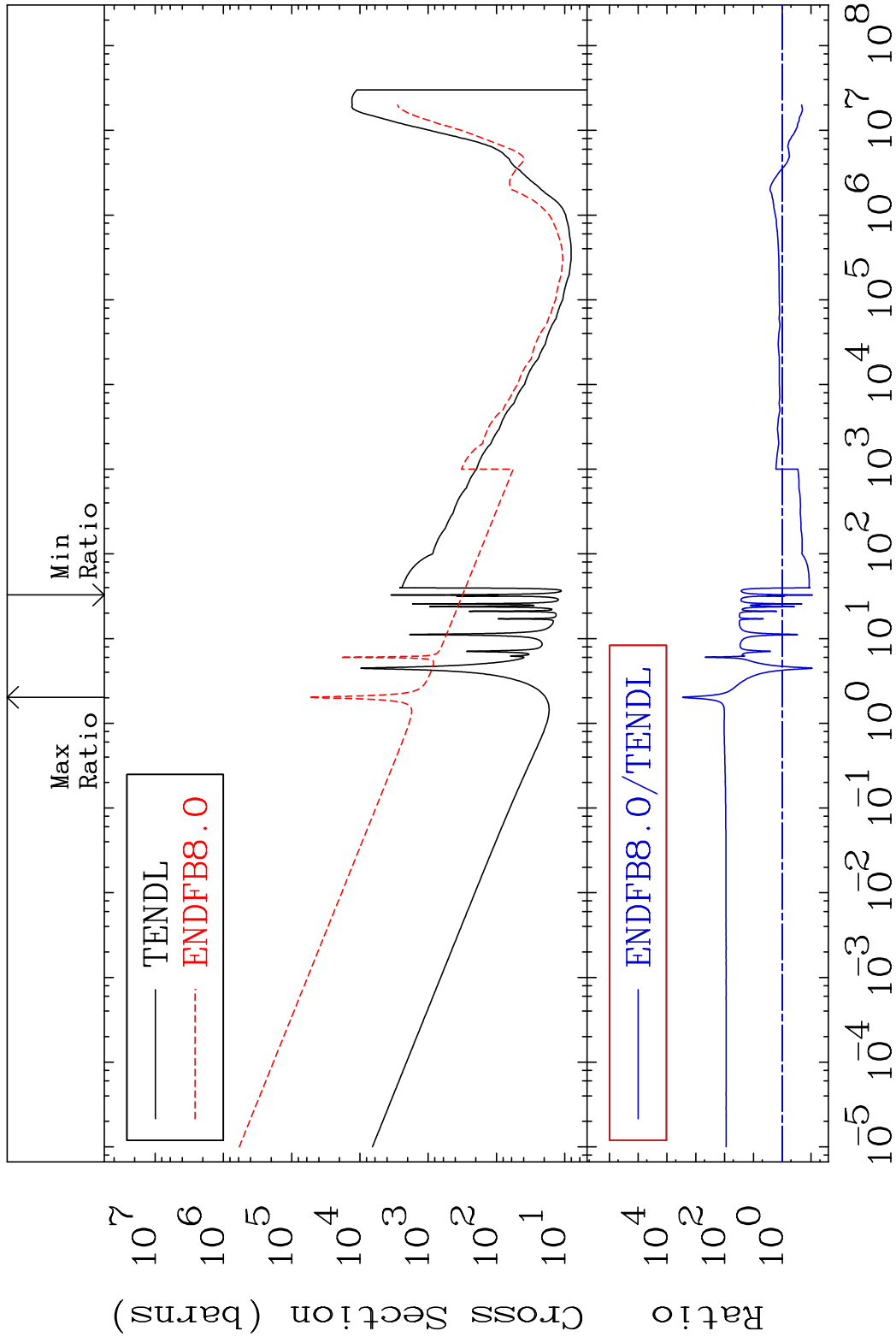
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

Ratio

Cross Section (barns)

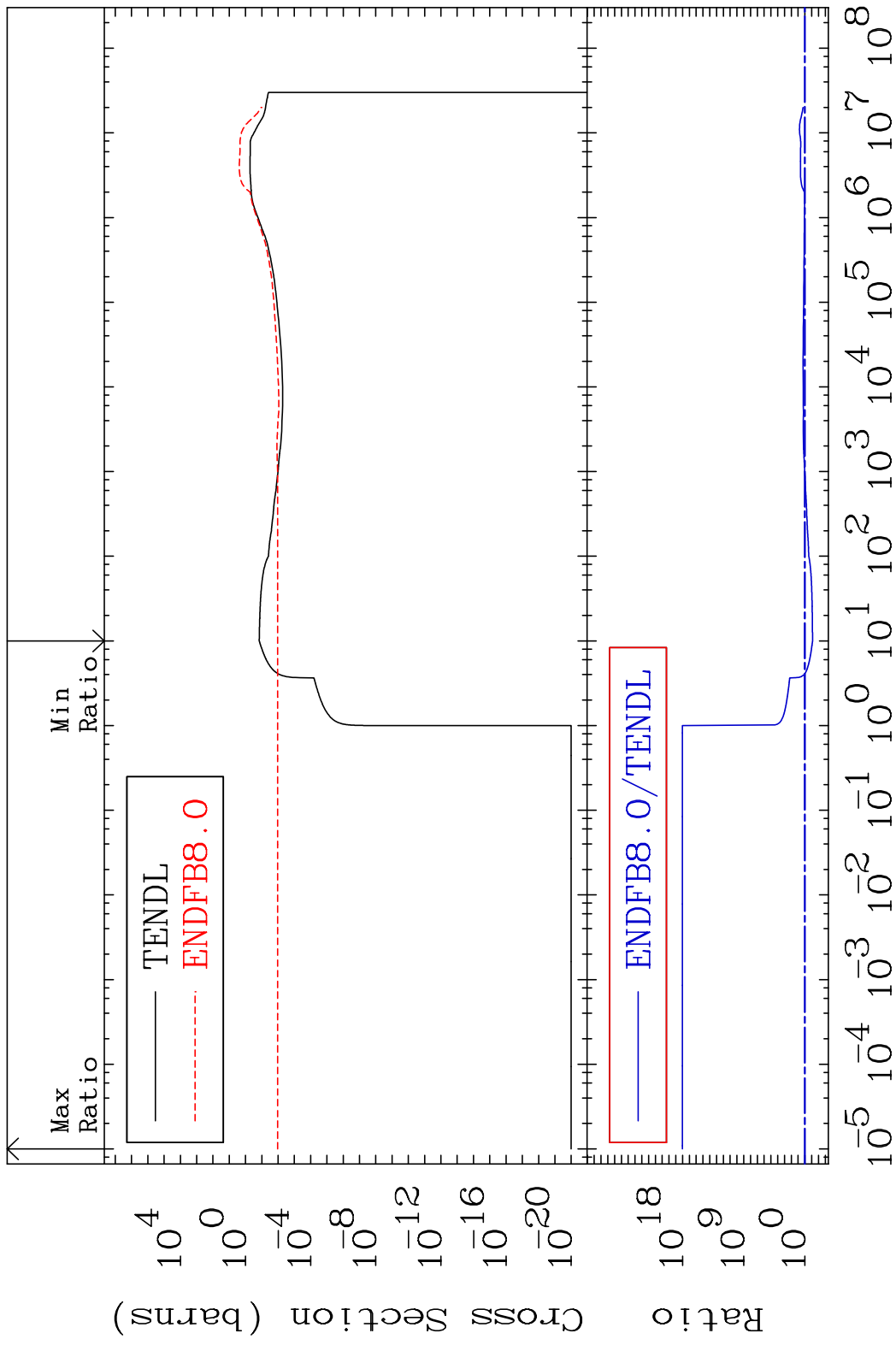
Incident Energy (eV)

MAT 5829 Dpa disappearance (mt102 -120) 58-Ce-137m
 Cross Section -91.08 To 9999. %

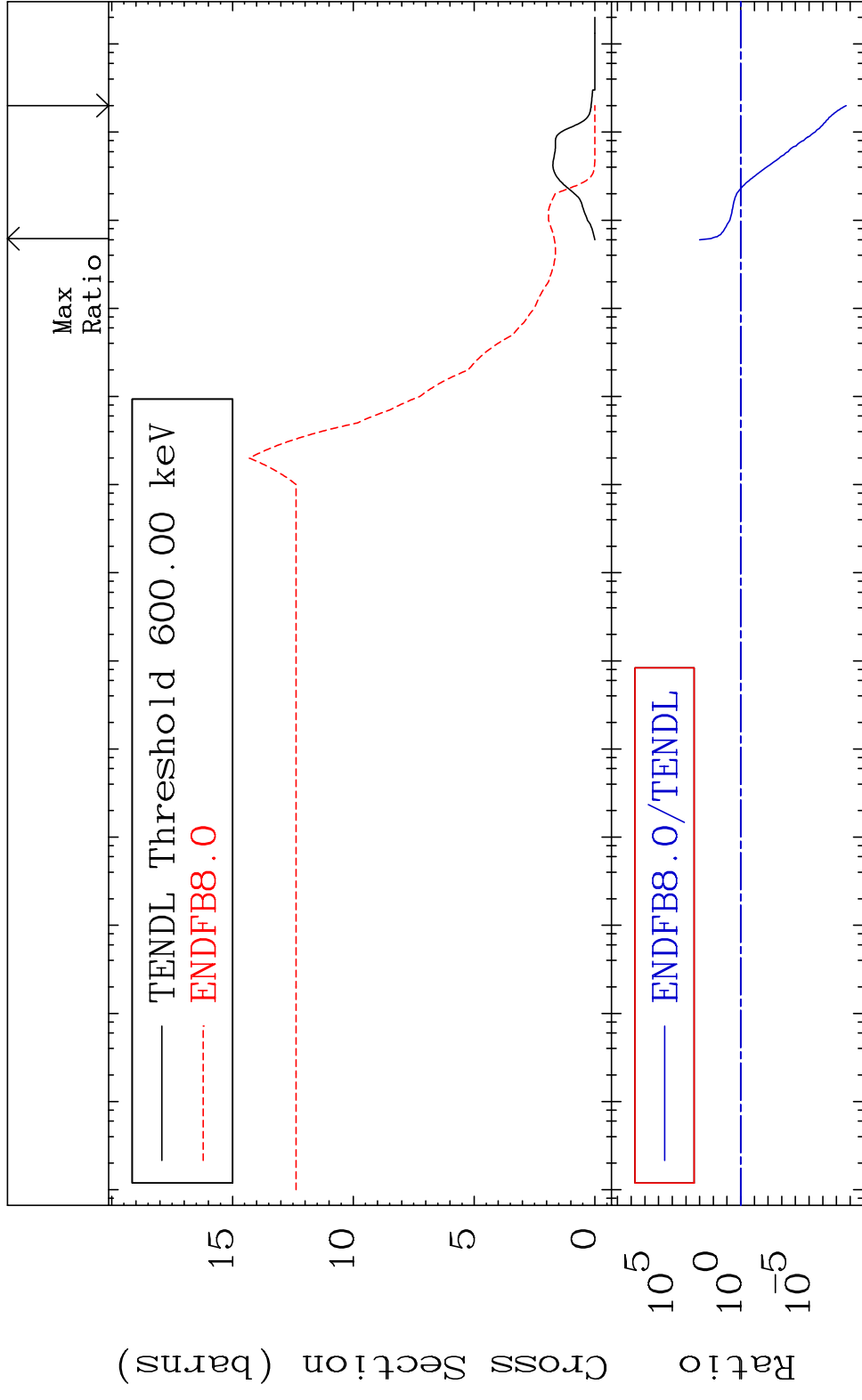


45 Incident Energy (eV) 58-Ce-137m

MAT 5829 Inelastic:58-Ce-137g 58-Ce-137m
 Radionuclide Production Cross Section to 9999. %



MAT 5829 Inelastic:58-Ce-137m 58-Ce-137m
 Radionuclide Production Cross Section Ratio 9999. %



47 Incident Energy (eV) 58-Ce-137m