

Program Complot
(Version 2021-1)

by

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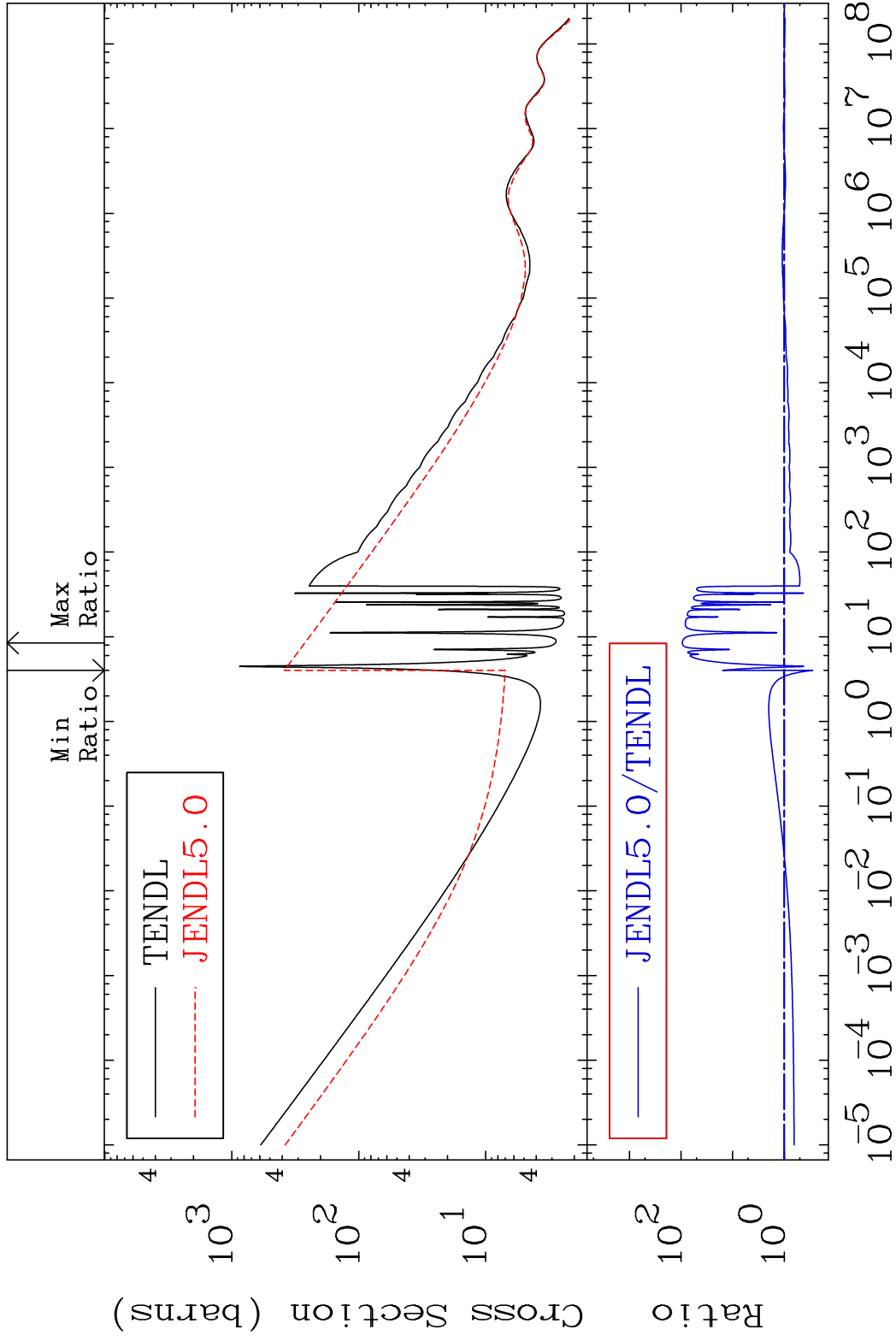
Press Mouse Button to Start

MAT 5829

Total

58-Ce-137m

Cross Section -71.77 To 9320. %



1

Incident Energy (eV)

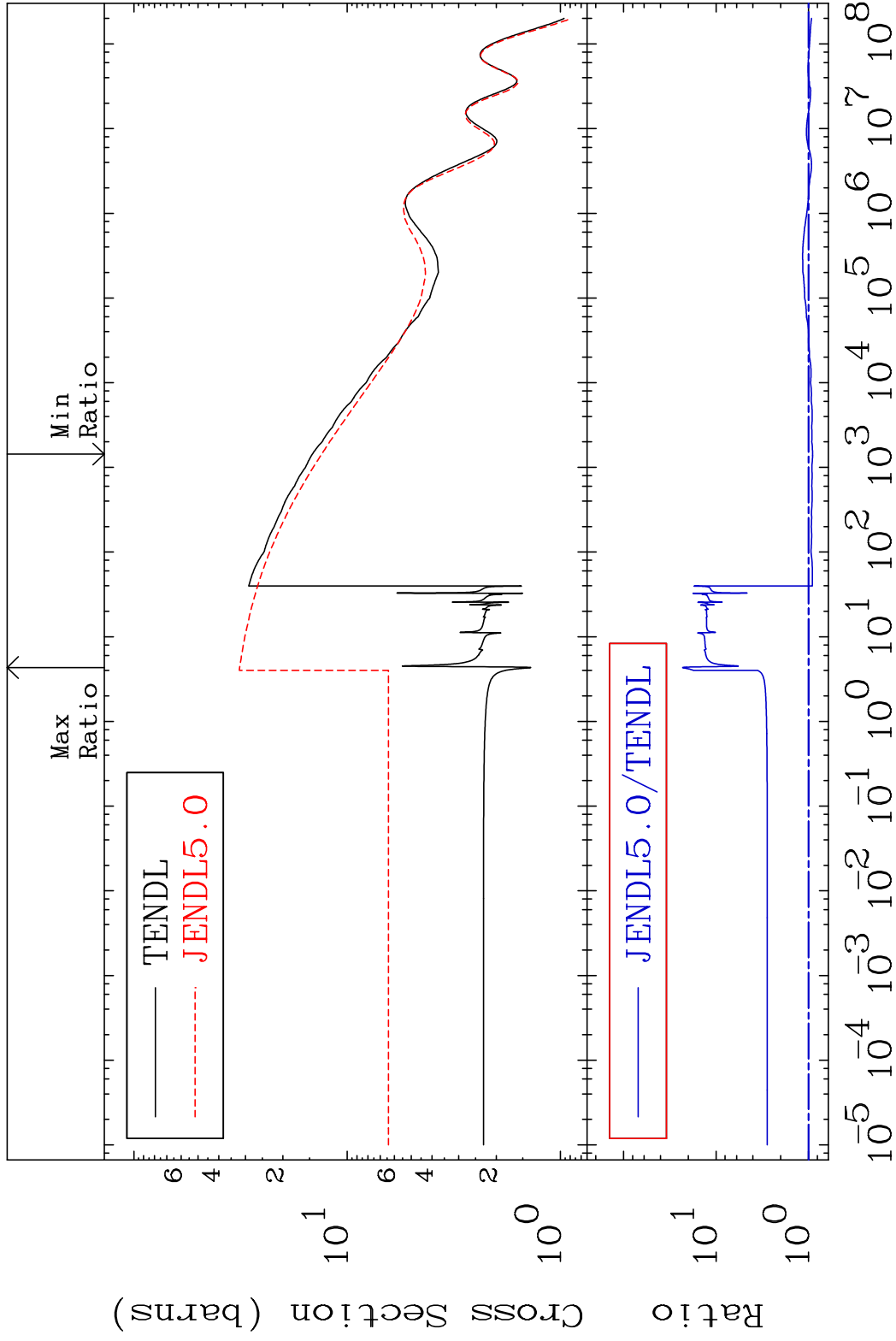
58-Ce-137m

MAT 5829

Elastic

58-Ce-137m

Cross Section -9.631 To 2217. %

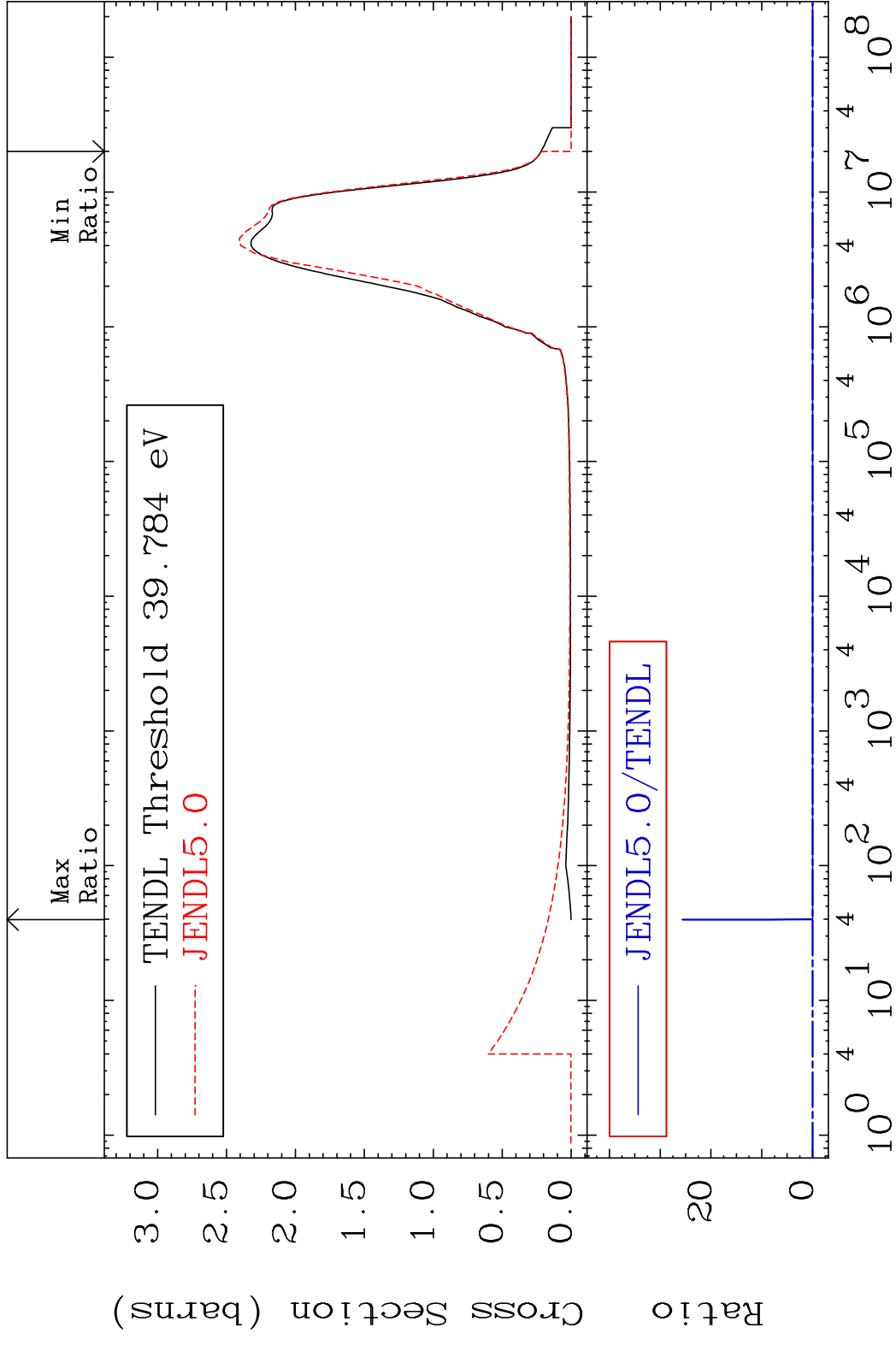


2

Incident Energy (eV)

58-Ce-137m

MAT 5829 Inelastic Cross Section 58-Ce-137m
 -100.0 To 9999. %



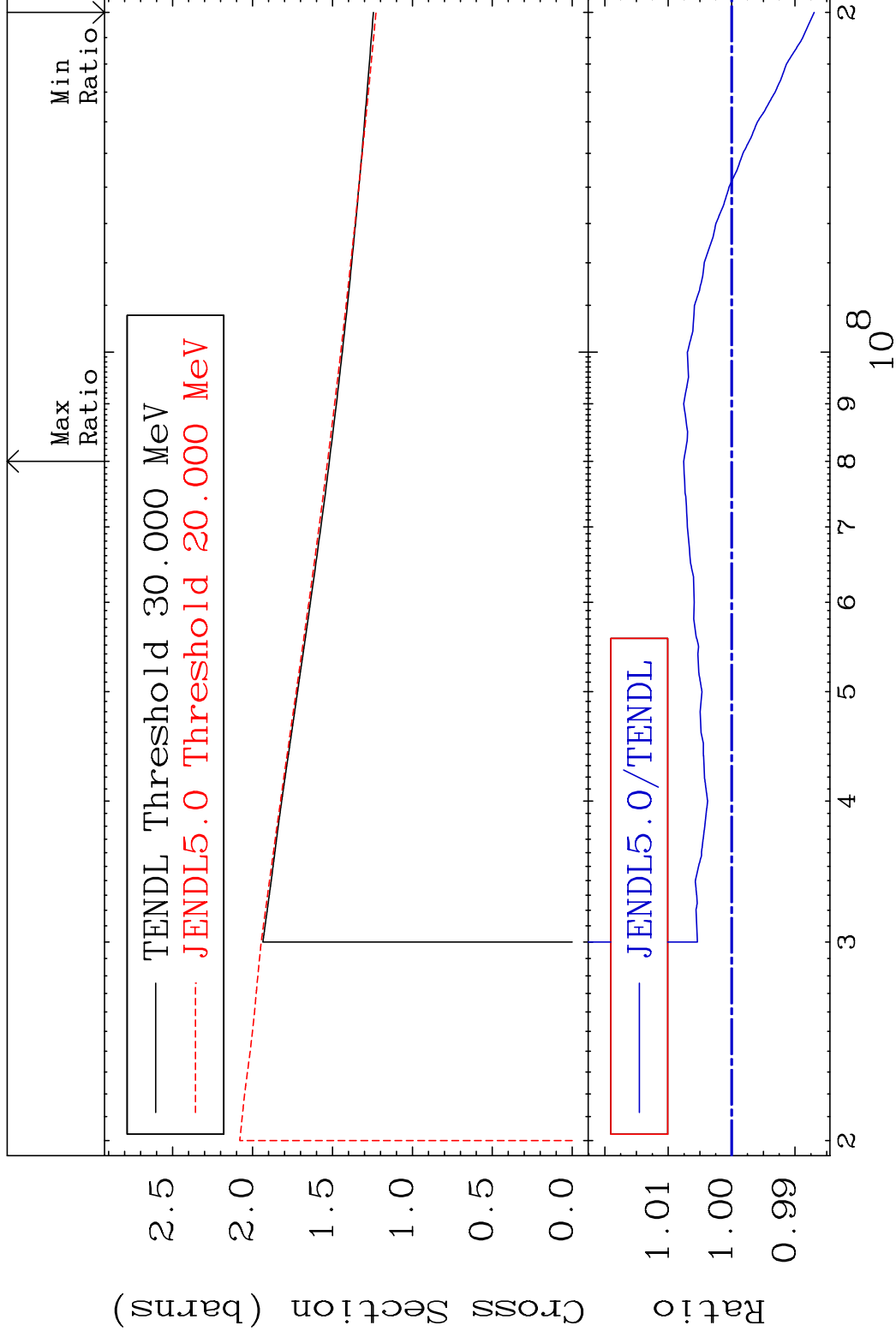
3 Incident Energy (eV) 58-Ce-137m

MAT 5829

(n, remainder)

58-Ce-137m

Cross Section -1.300 To 0.757 %

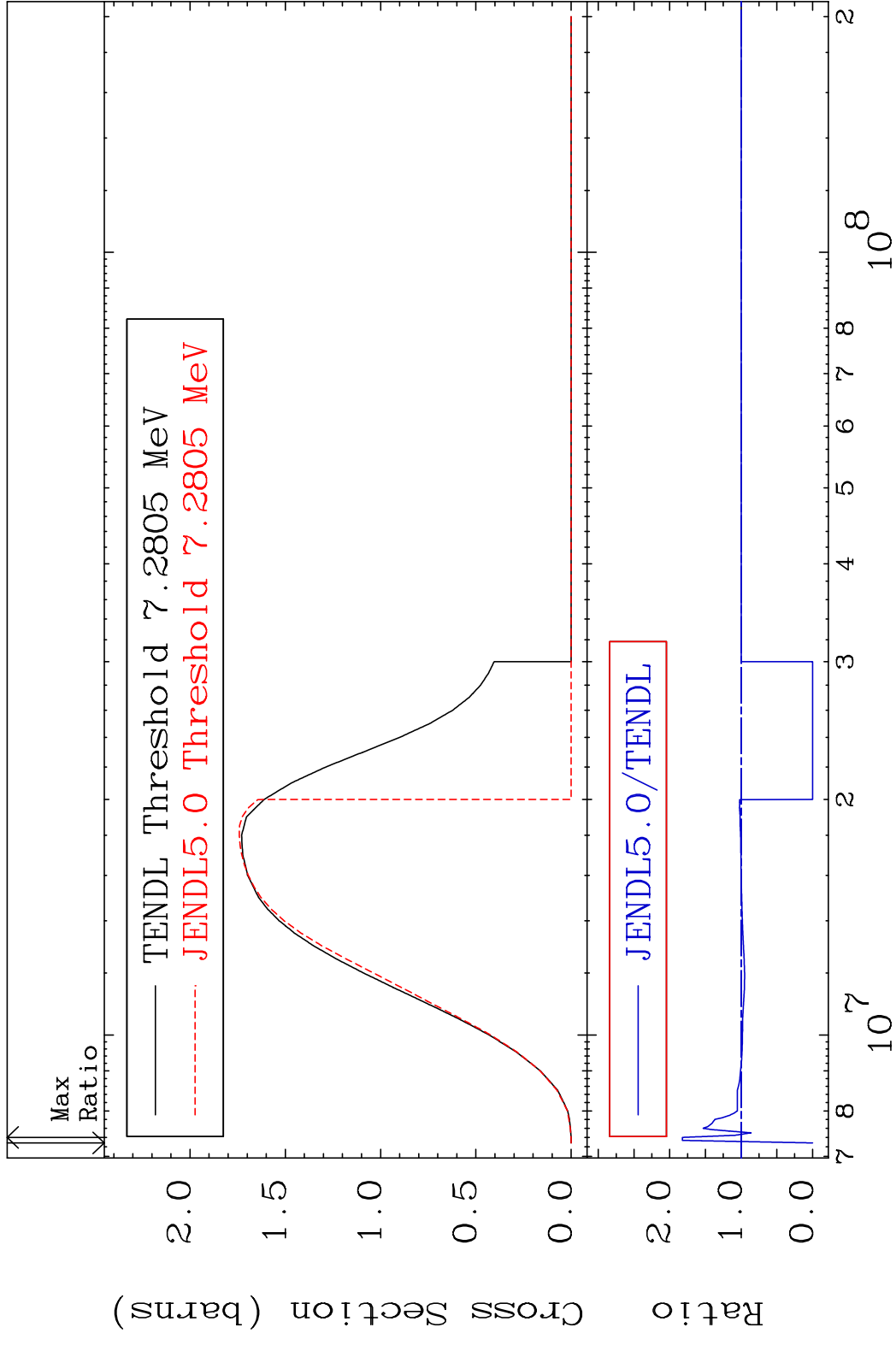


4

Incident Energy (eV)

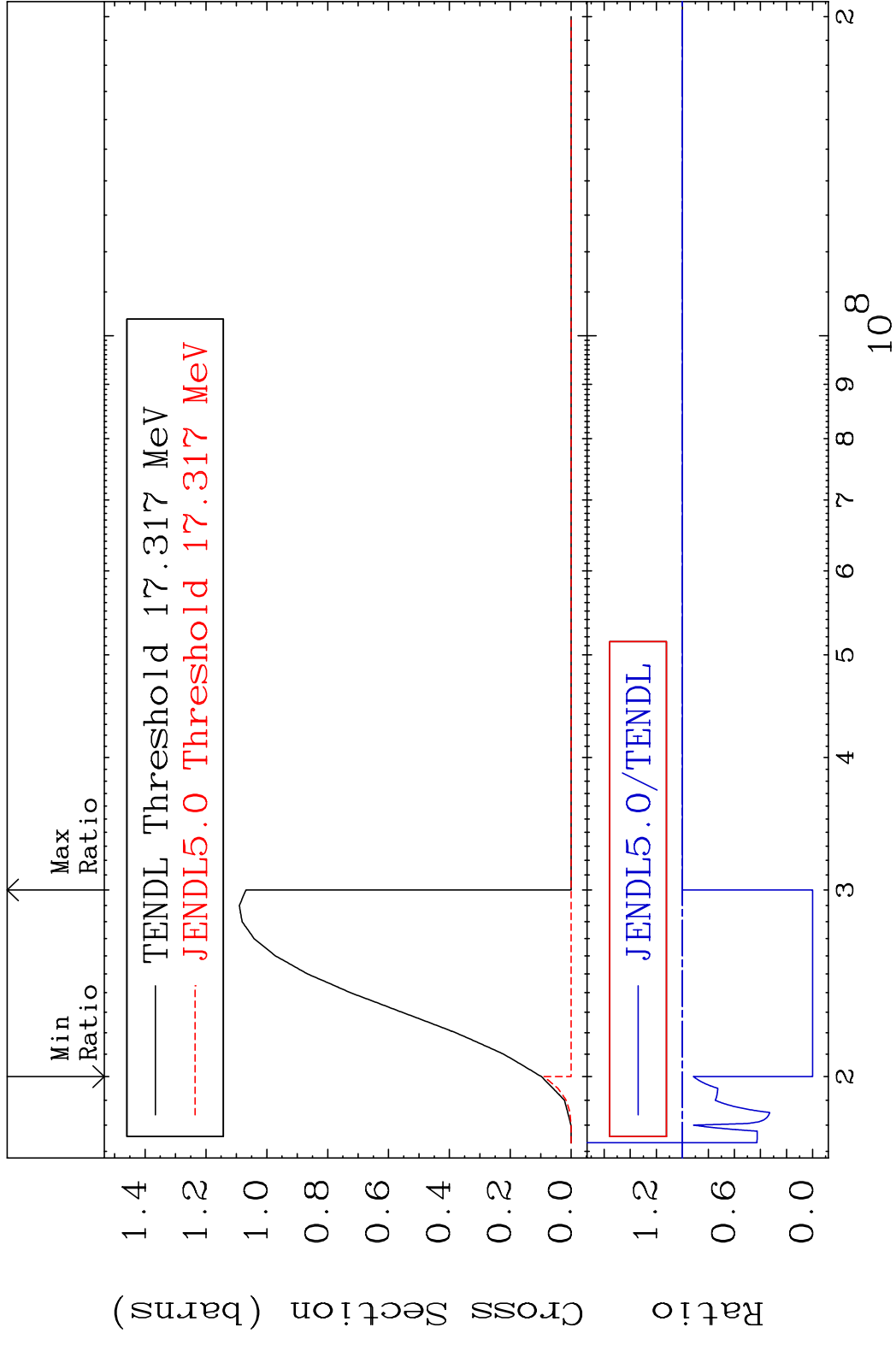
58-Ce-137m

MAT 5829 (n,2n) 58-Ce-137m
 Cross Section -100.0 To 82.31 %

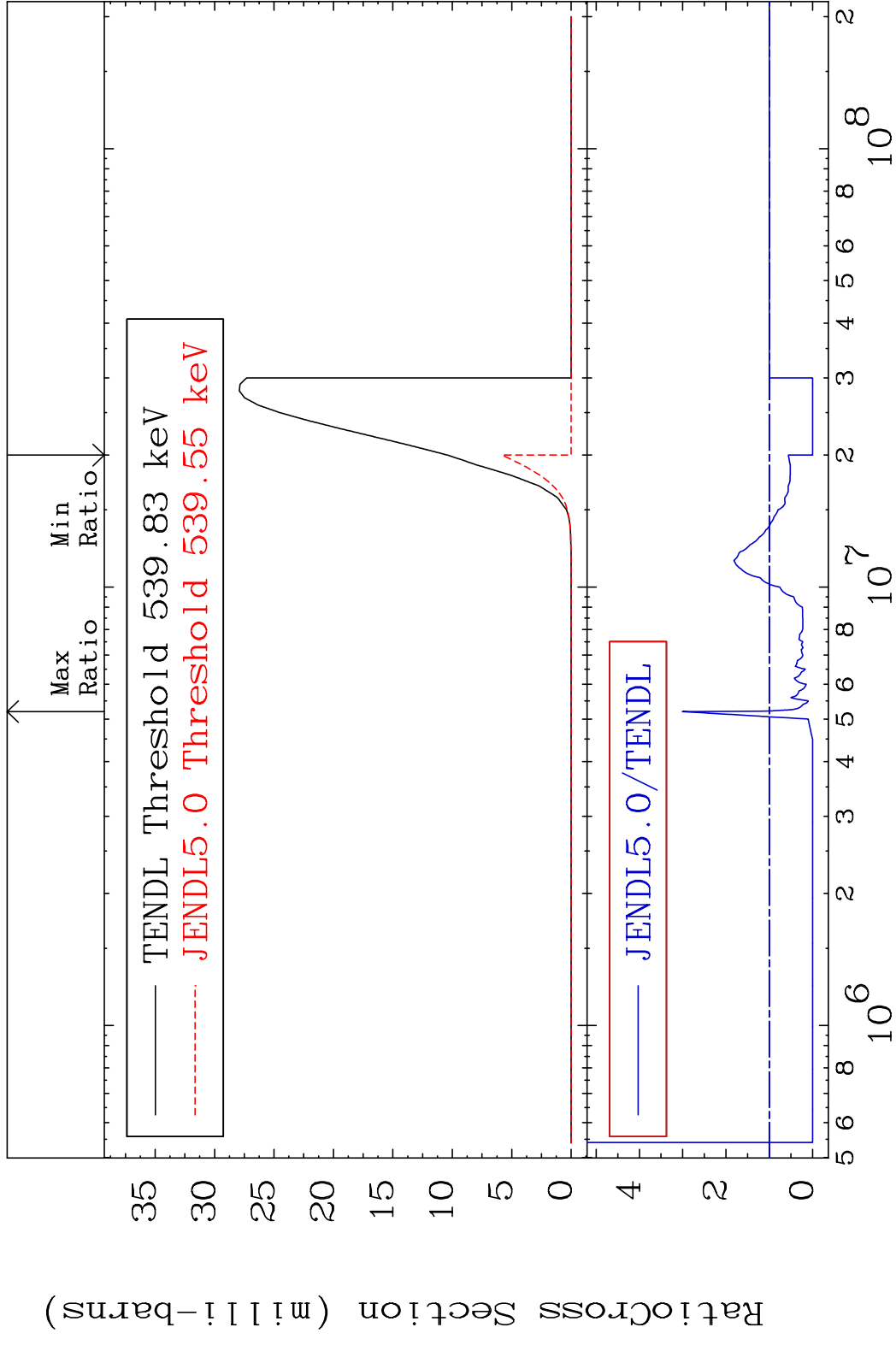


5 Incident Energy (eV) 58-Ce-137m

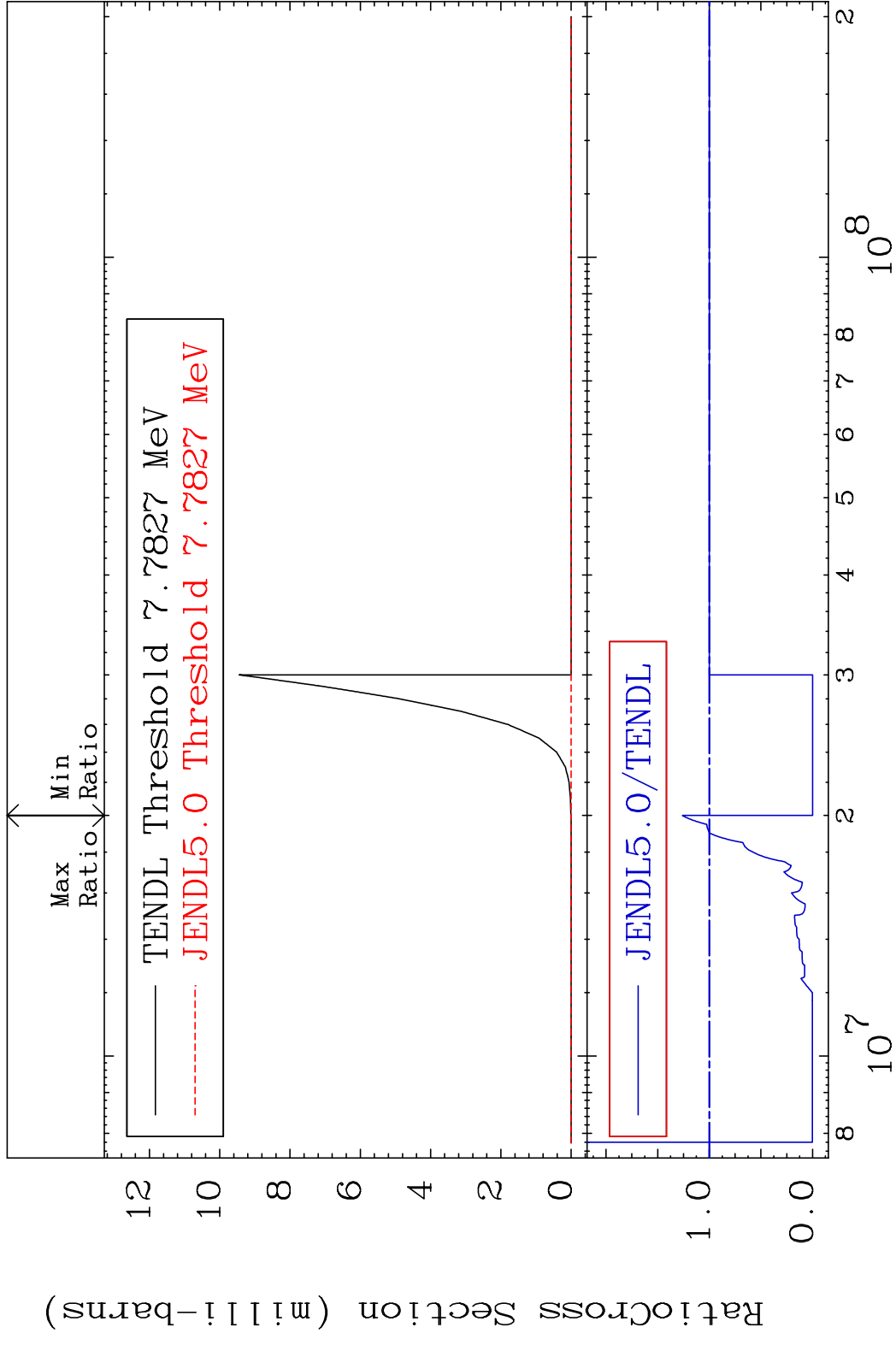
MAT 5829 (n,3n) 58-Ce-137m
 Cross Section -100.0 To 0.000 %



MAT 5829 (n, n') α 58-Ce-137m
 Cross Section -100.0 To 200.8 %

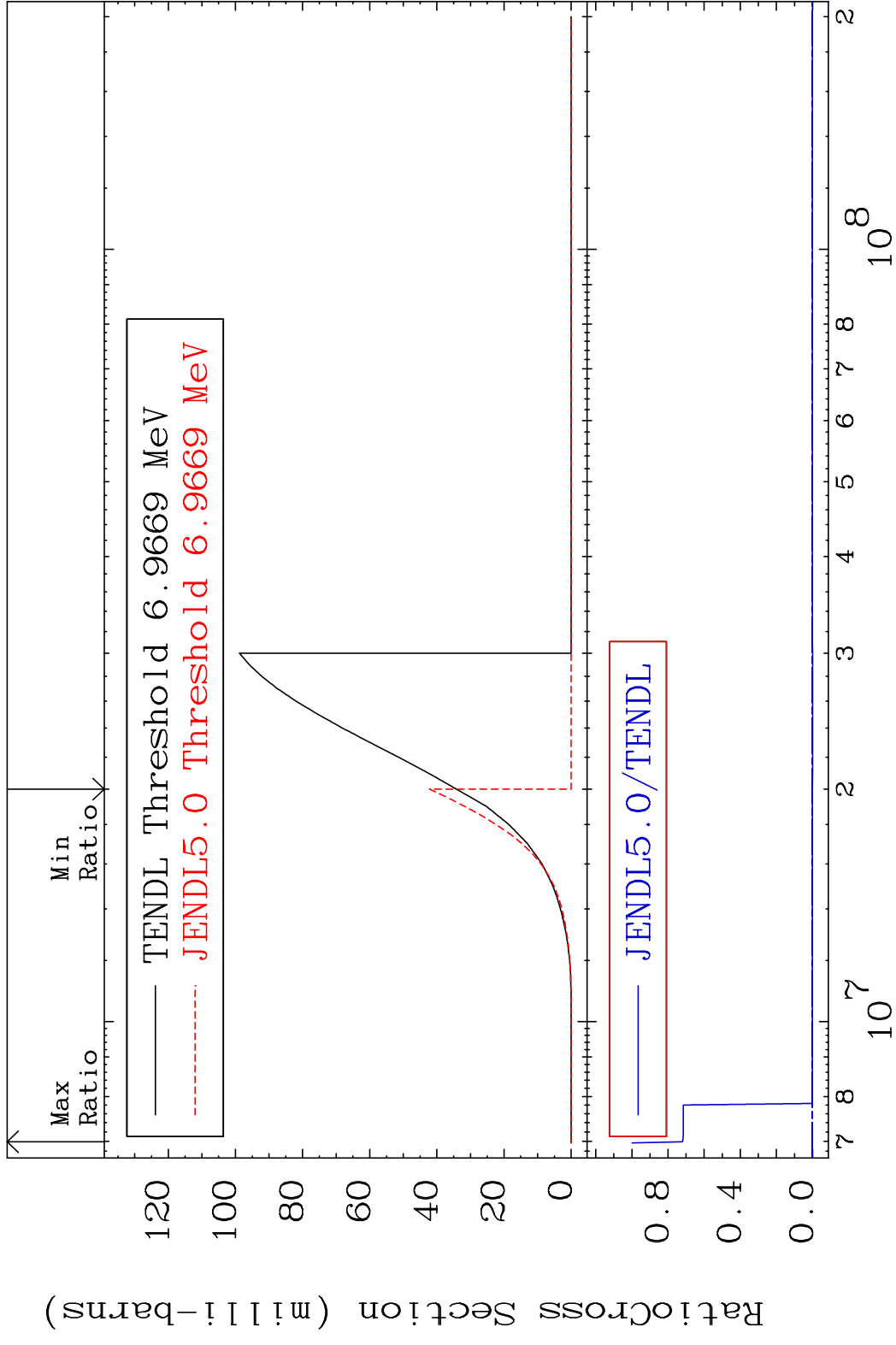


MAT 5829 (n,2n) α 58-Ce-137m
 Cross Section -100.0 To 26.10 %



8 8 Incident Energy (eV) 58-Ce-137m

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

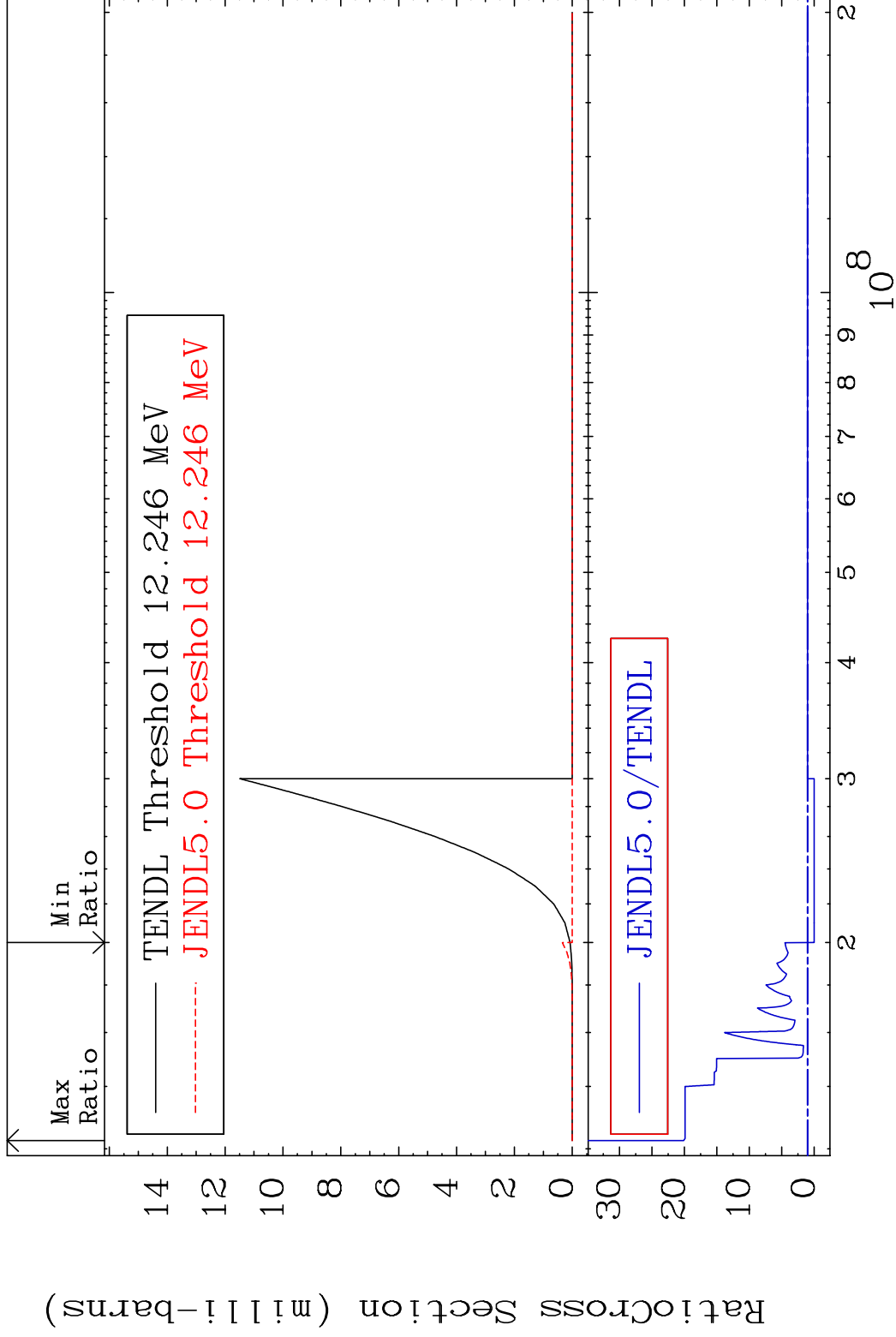


MAT 5829

(n, n') d

58-Ce-137m

Cross Section -100.0 To 1911. %

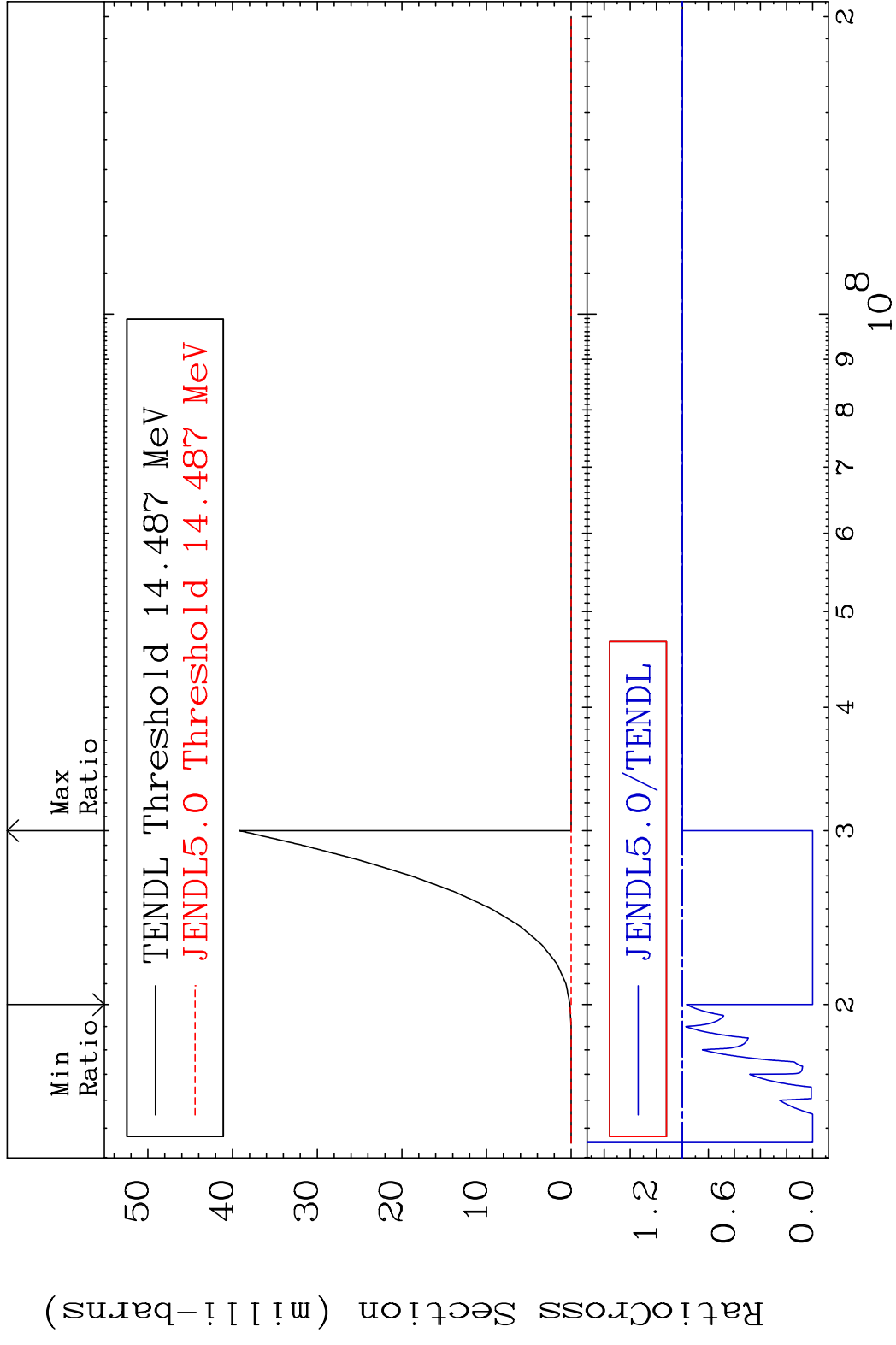


10

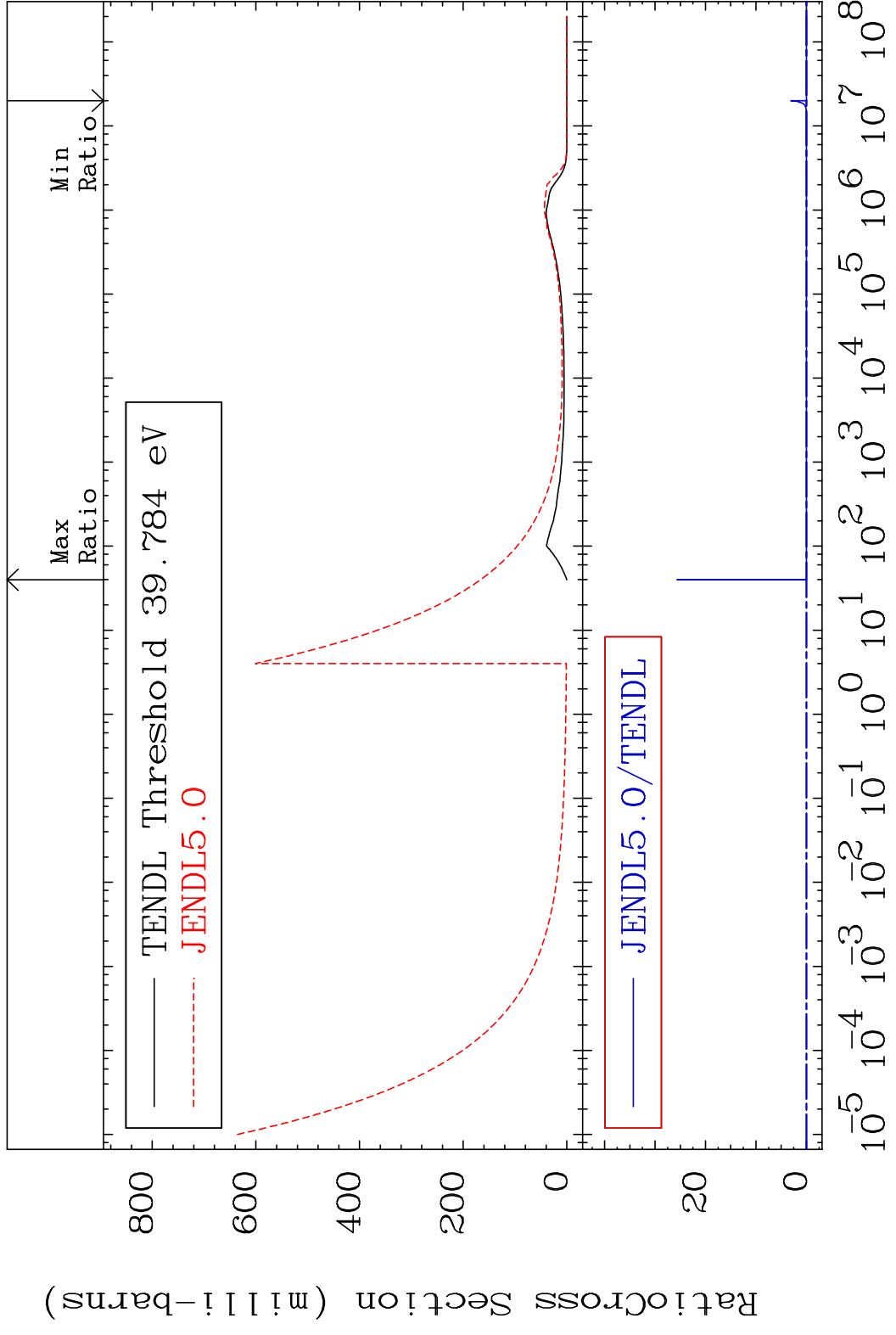
Incident Energy (eV)

58-Ce-137m

MAT 5829 (n,2n) p 58-Ce-137m
 Cross Section -100.0 To 0.000 %

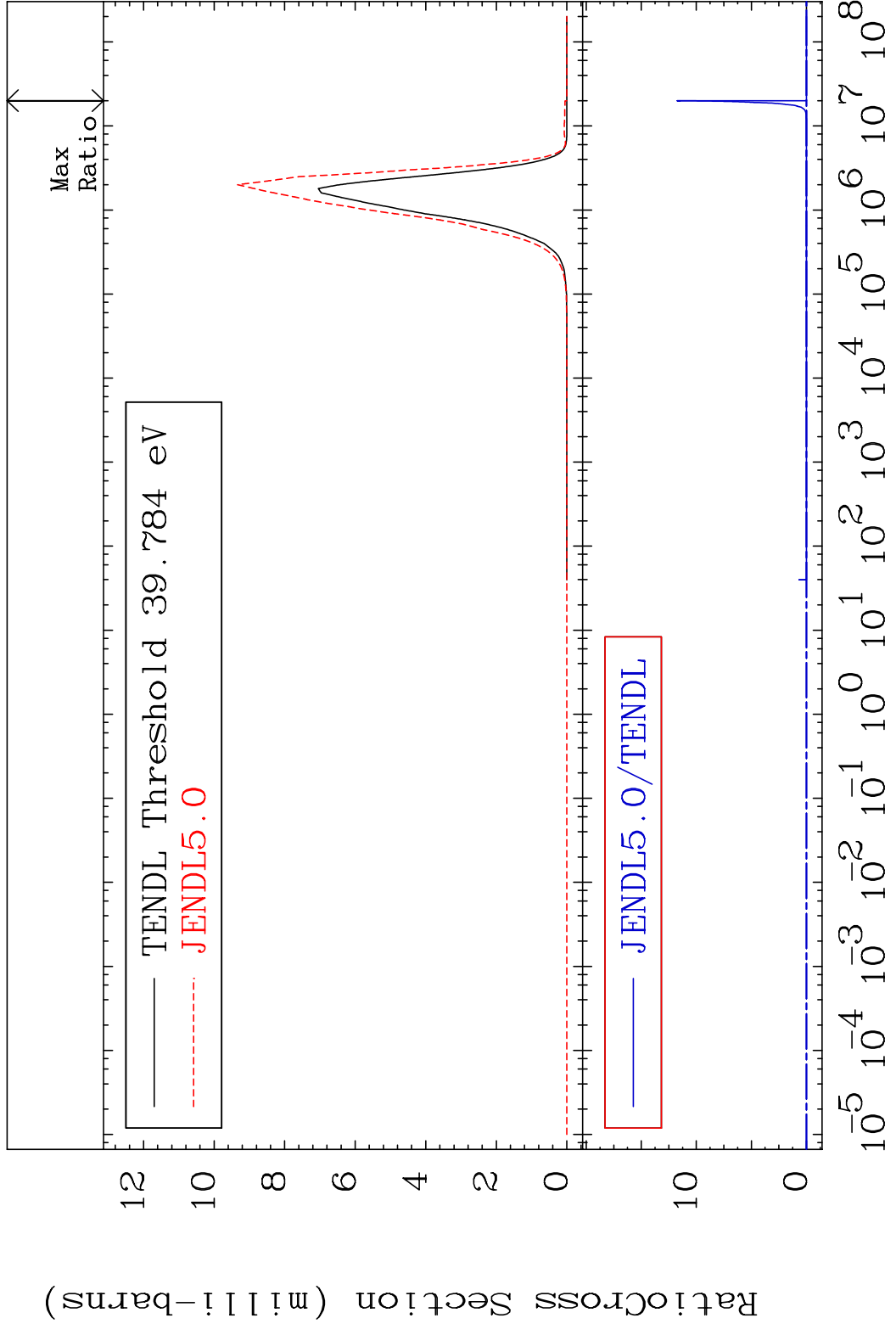


MAT 5829 MT= 51 (n, n') Level 58-Ce-137m
 Cross Section -100.0 To 9999. %



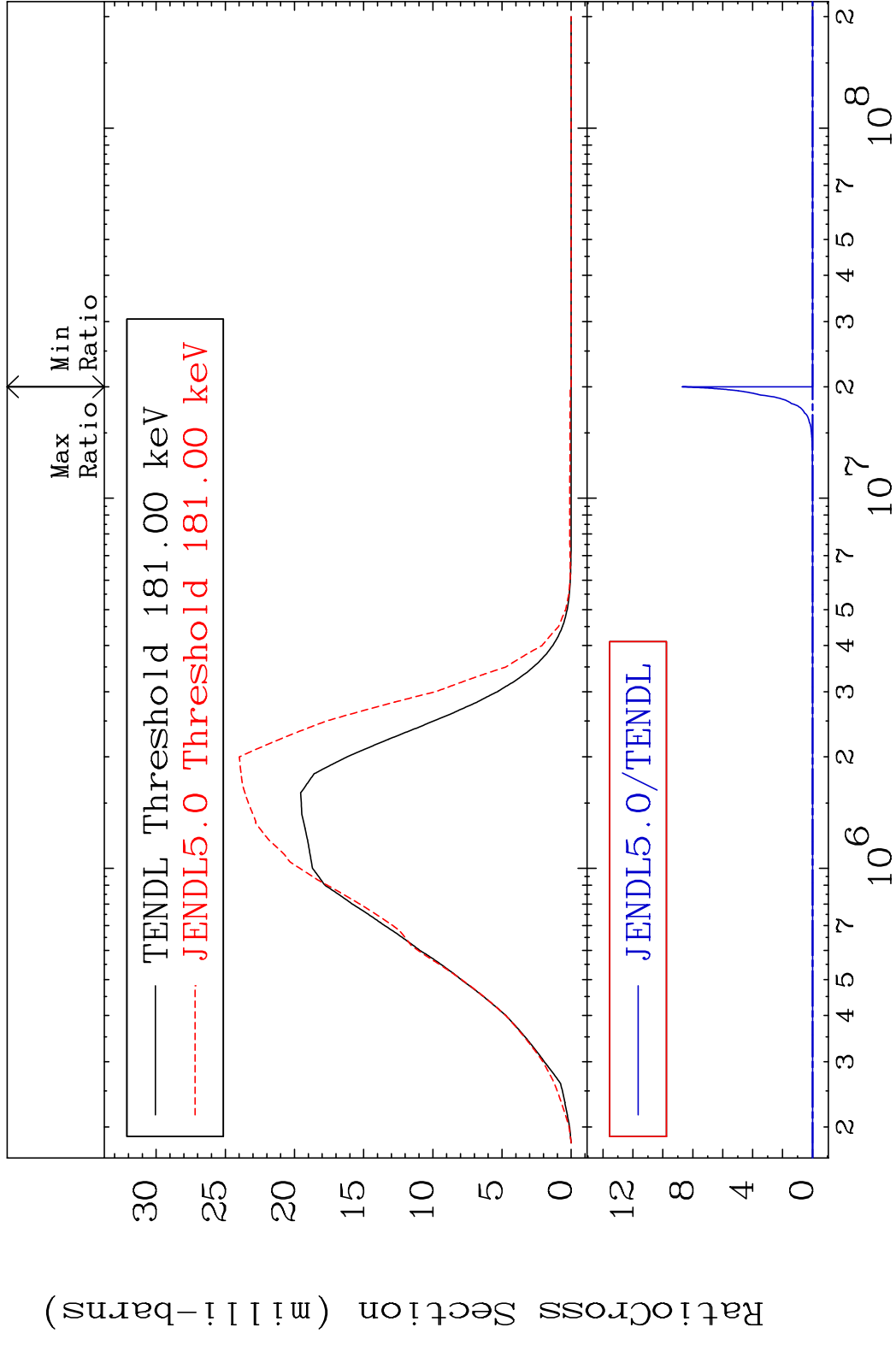
12 58-Ce-137m

MAT 5829 MT= 52 (n,n') Level 58-Ce-137m
 Cross Section -100.0 To 9999. %

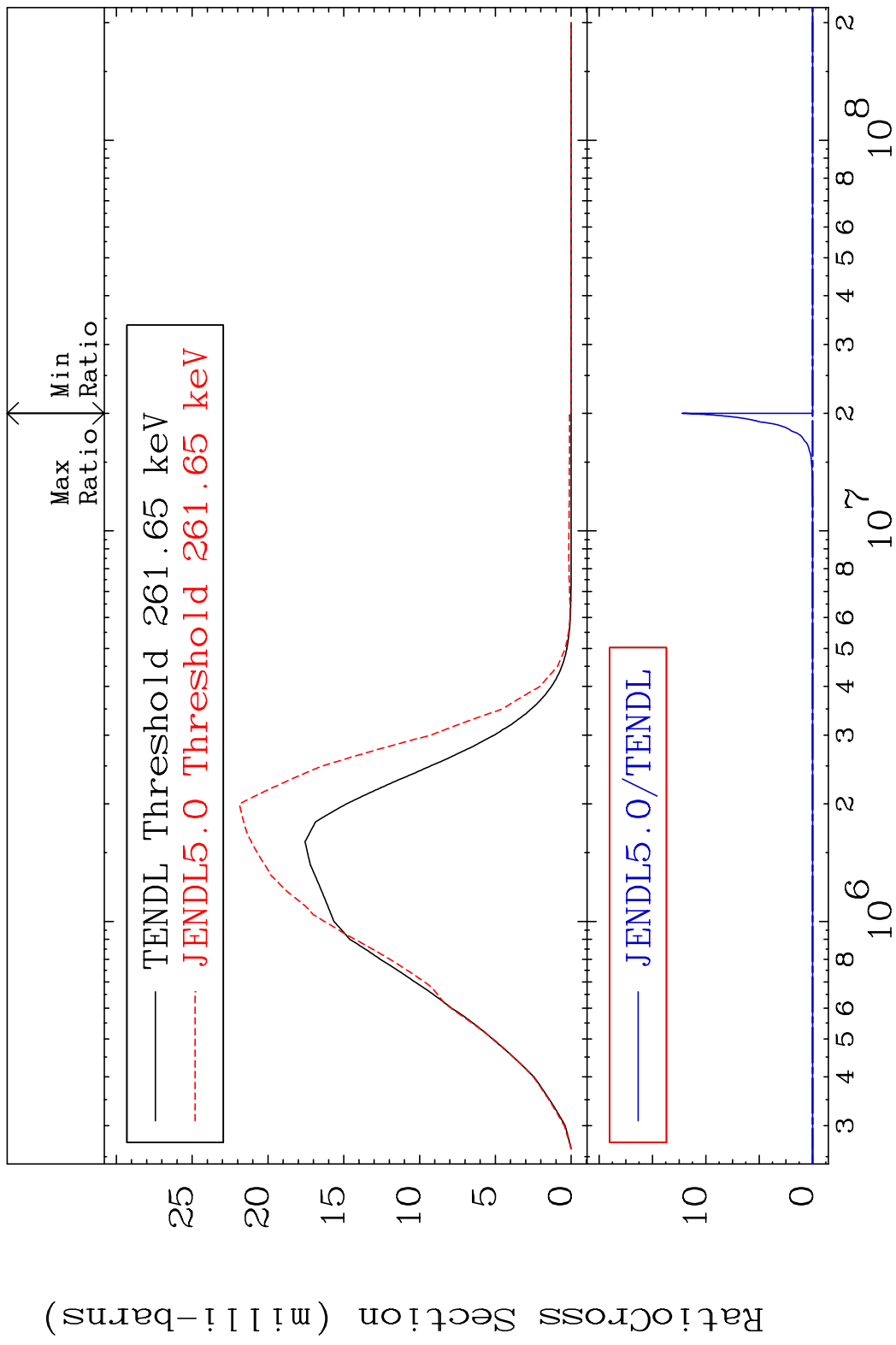


13 Incident Energy (eV) 58-Ce-137m

MAT 5829 MT= 53 (n,n') Level 58-Ce-137m
 Cross Section -100.0 To 9999. %

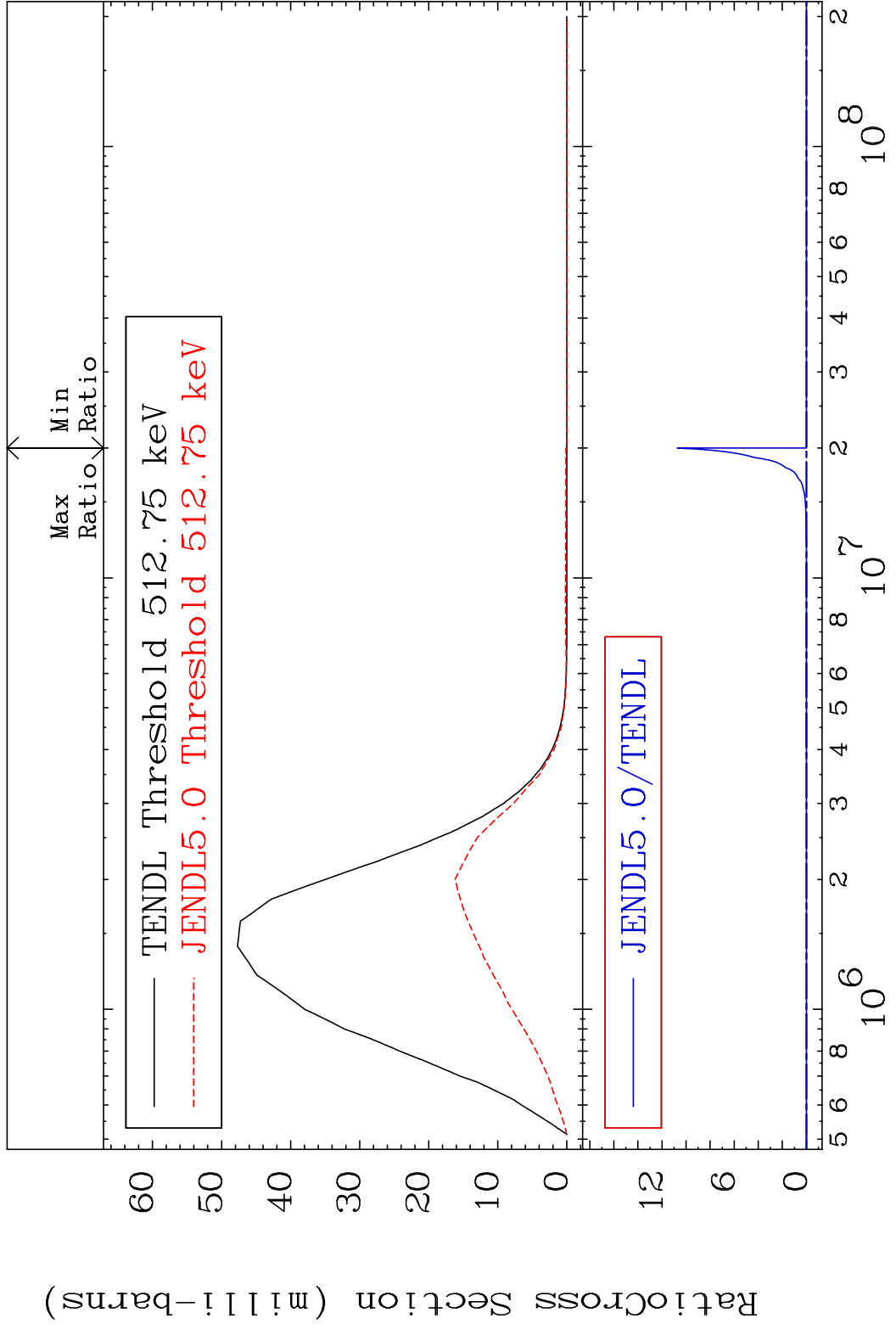


MAT 5829 MT= 54 (n,n') Level 58-Ce-137m
 Cross Section -100.0 To 9999. %



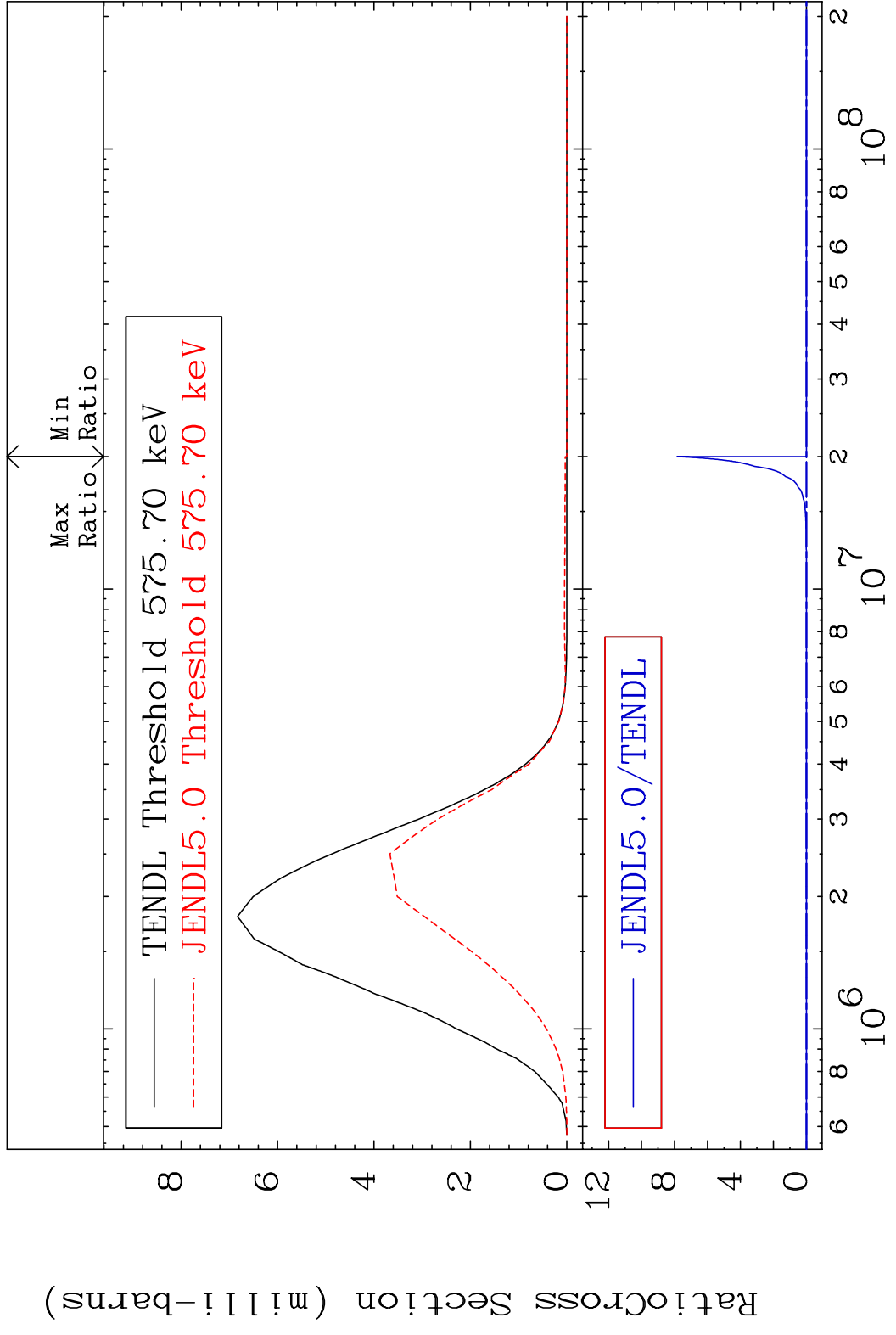
15 Incident Energy (eV) 58-Ce-137m

MAT 5829 MT= 55 (n, n') Level 58-Ce-137m
 Cross Section -100.0 To 9999. %



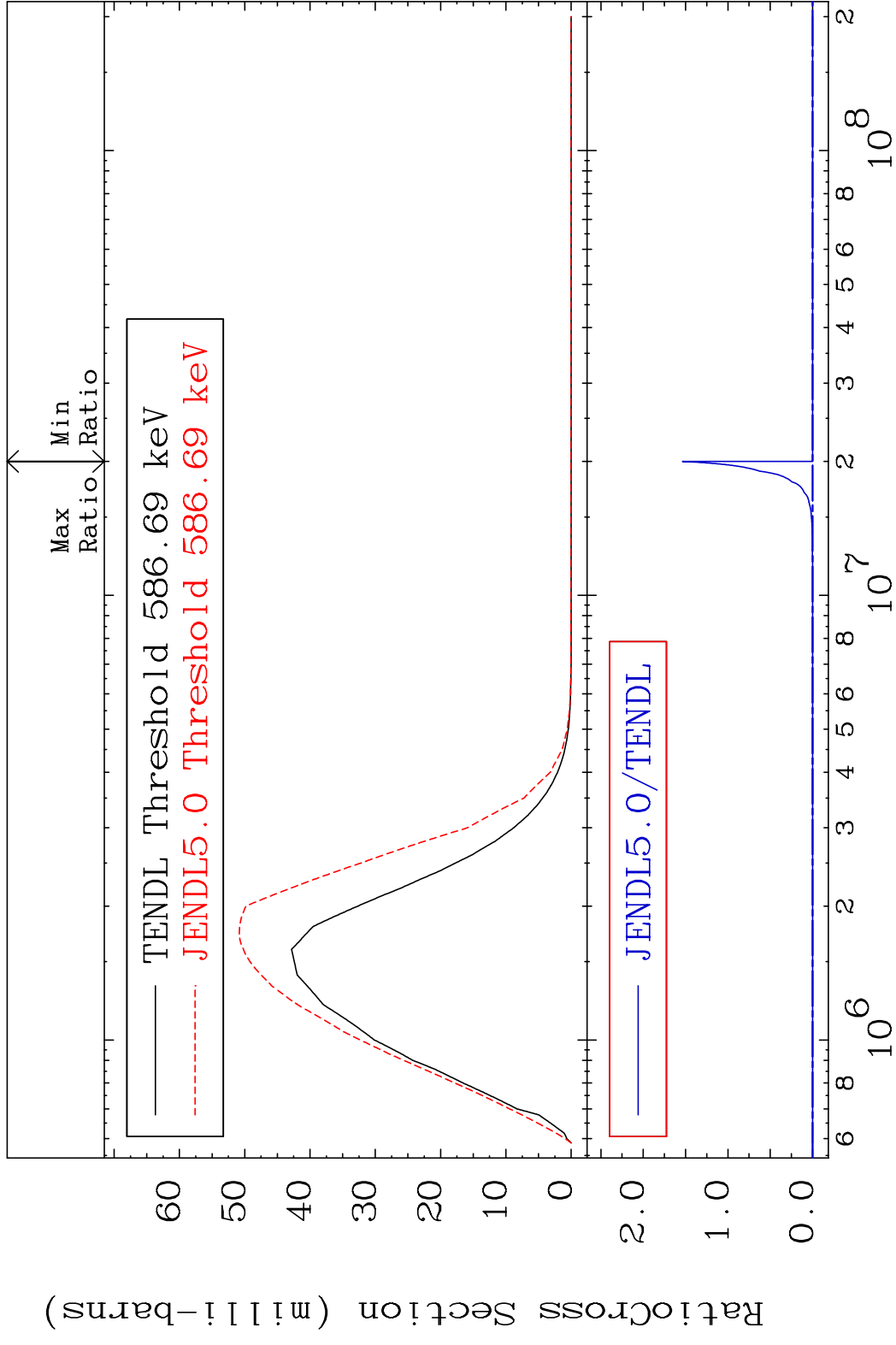
16 Incident Energy (eV) 58-Ce-137m

MAT 5829 MT= 56 (n, n') Level 58-Ce-137m
 Cross Section -100.0 To 9999. %

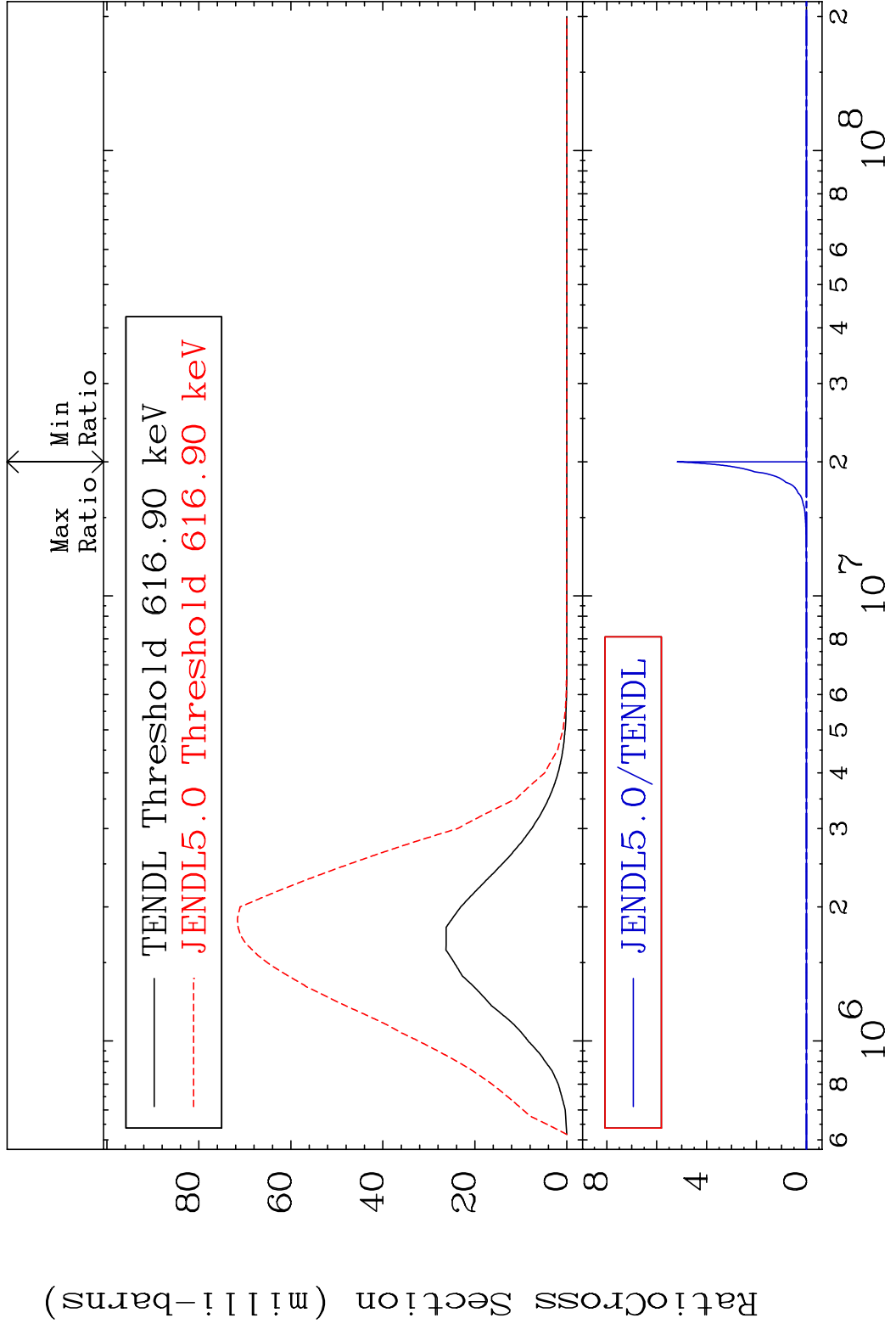


17 Incident Energy (eV) 58-Ce-137m

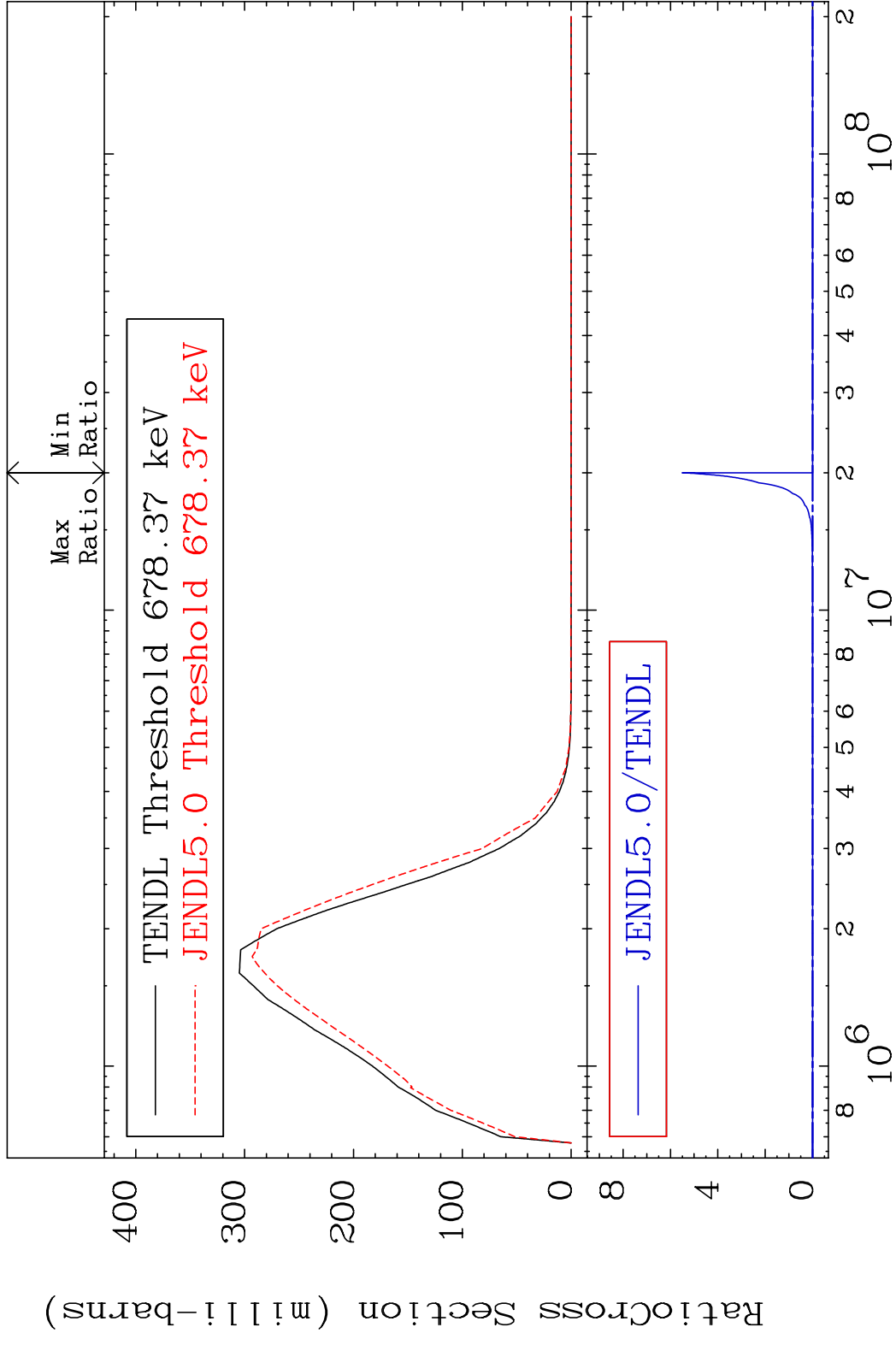
MAT 5829 MT= 57 (n, n') Level 58-Ce-137m
 Cross Section -100.0 To 9999. %



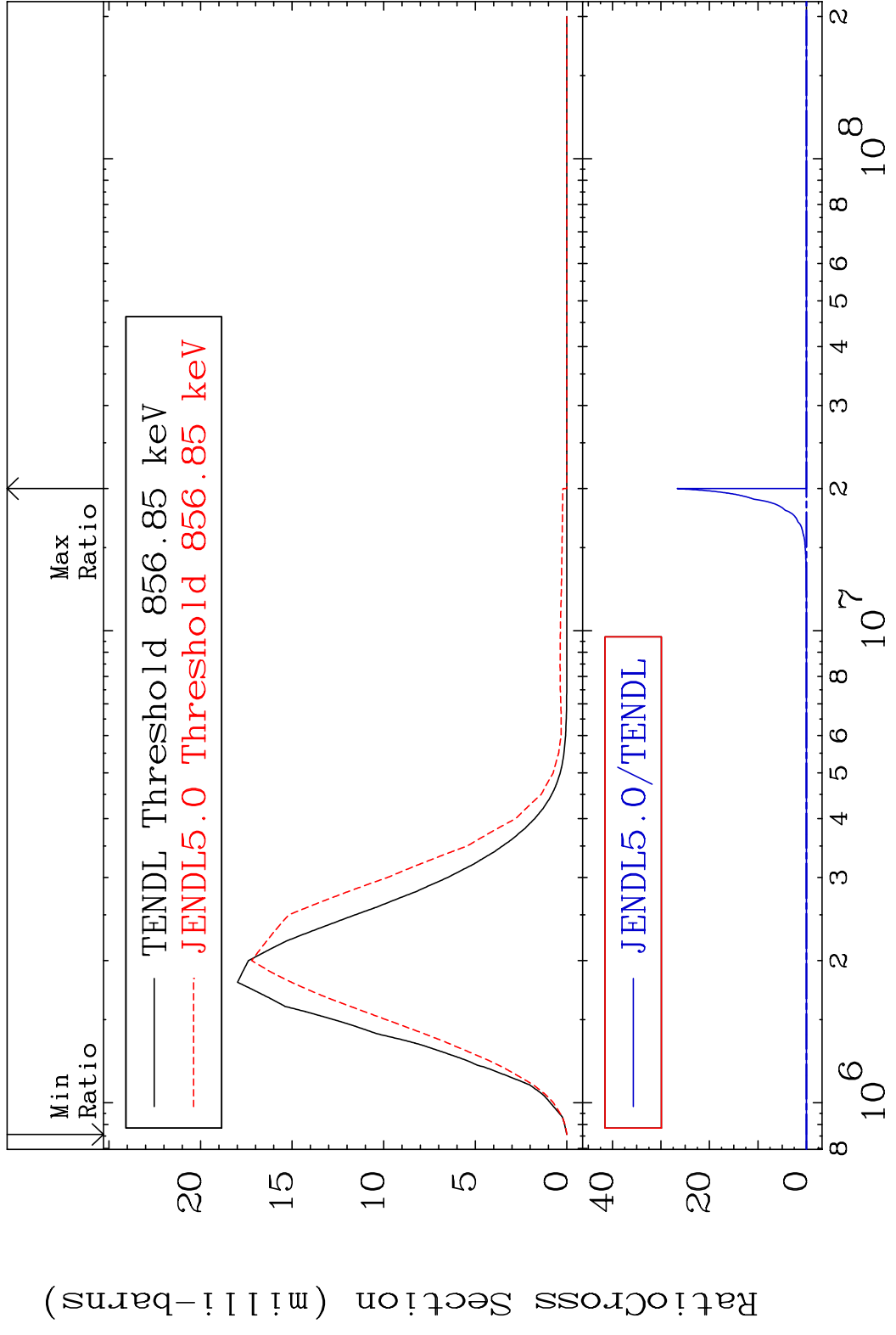
MAT 5829 MT= 58 (n, n') Level 58-Ce-137m
 Cross Section -100.0 To 9999. %



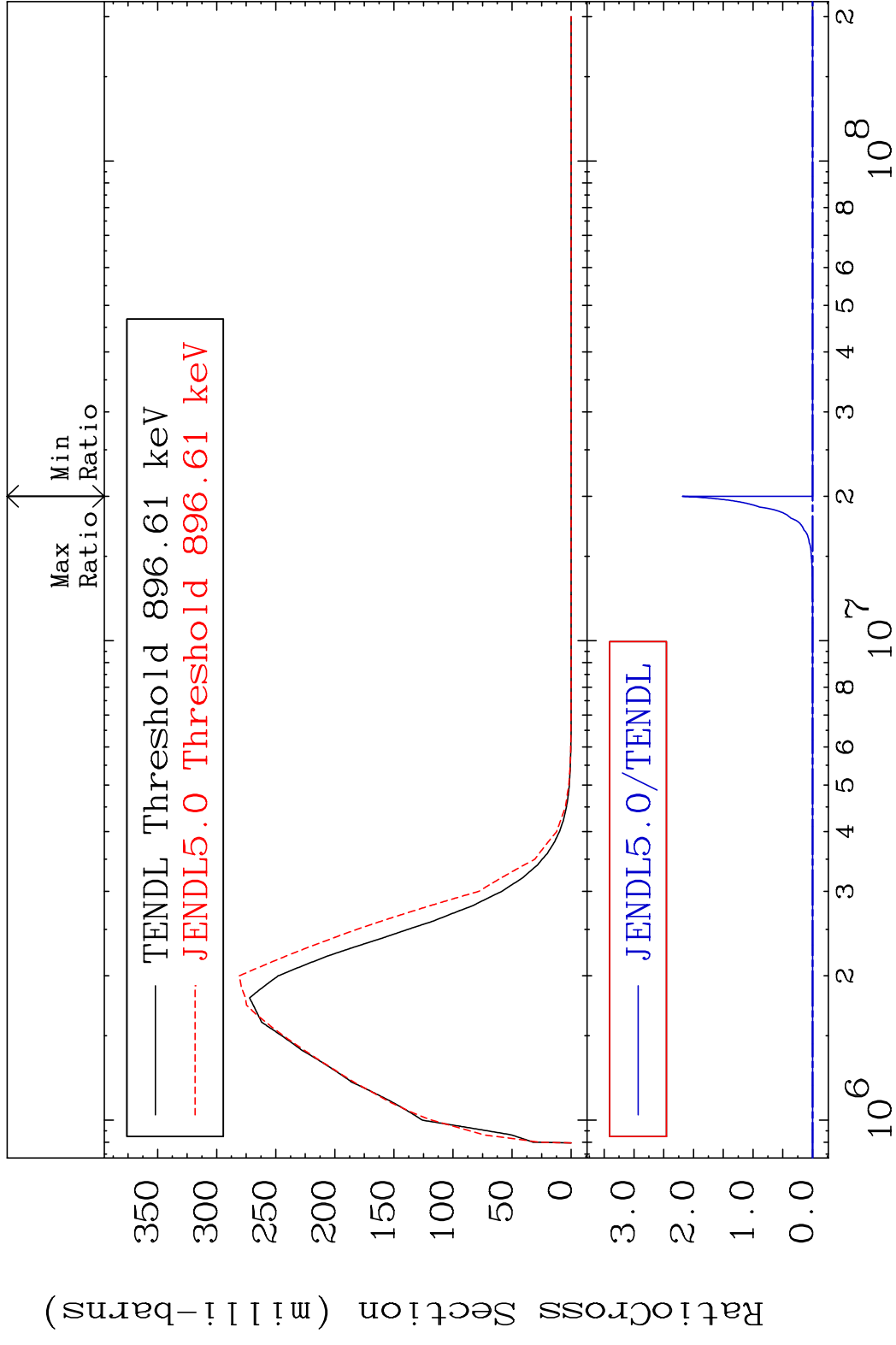
MAT 5829 MT= 59 (n, n') Level 58-Ce-137m
 Cross Section -100.0 To 9999. %



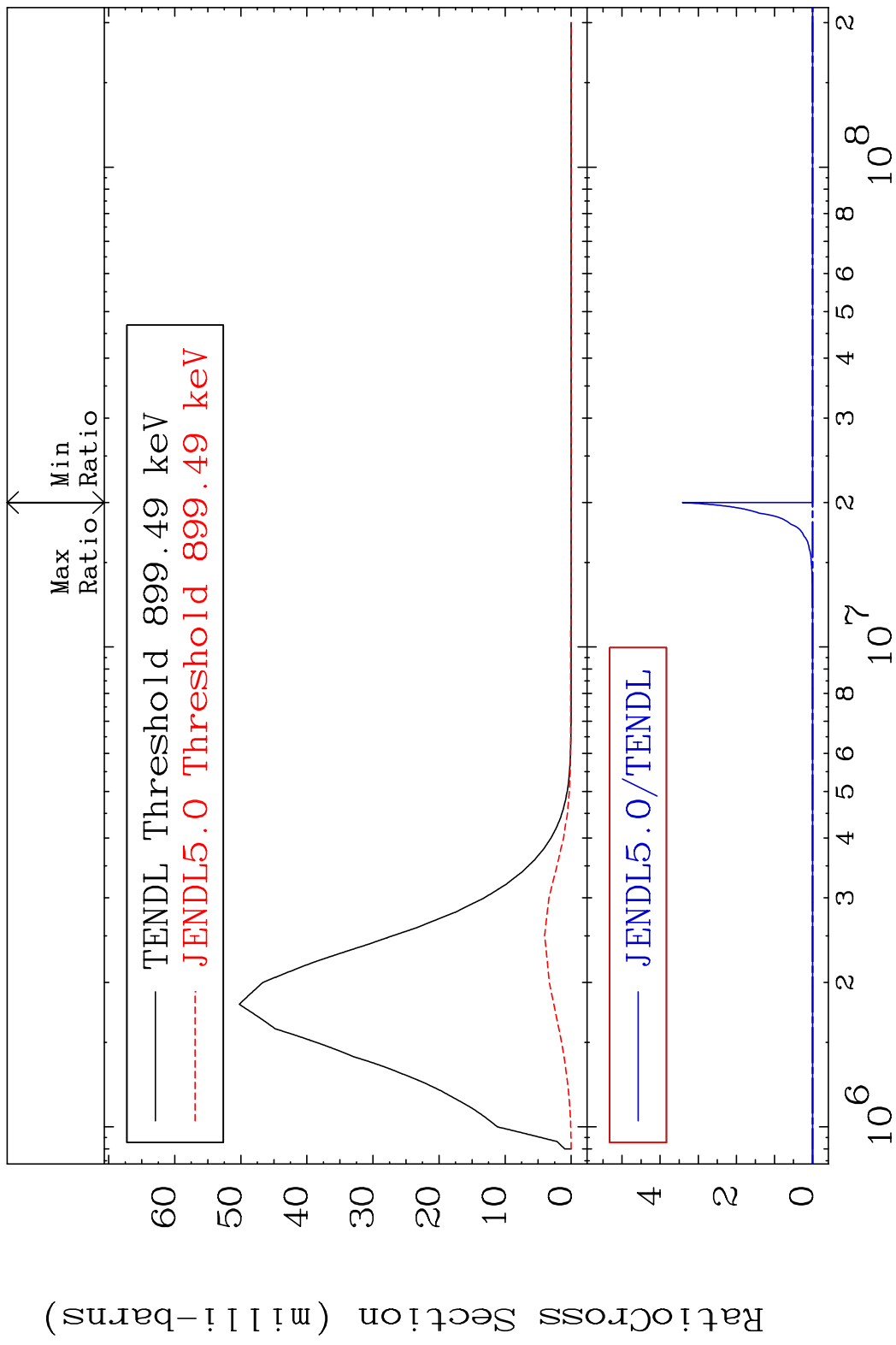
MAT 5829 MT= 60 (n, n') Level 58-Ce-137m
 Cross Section -100.0 To 9999. %



MAT 5829 MT= 61 (n, n') Level 58-Ce-137m
 Cross Section -100.0 To 9999. %

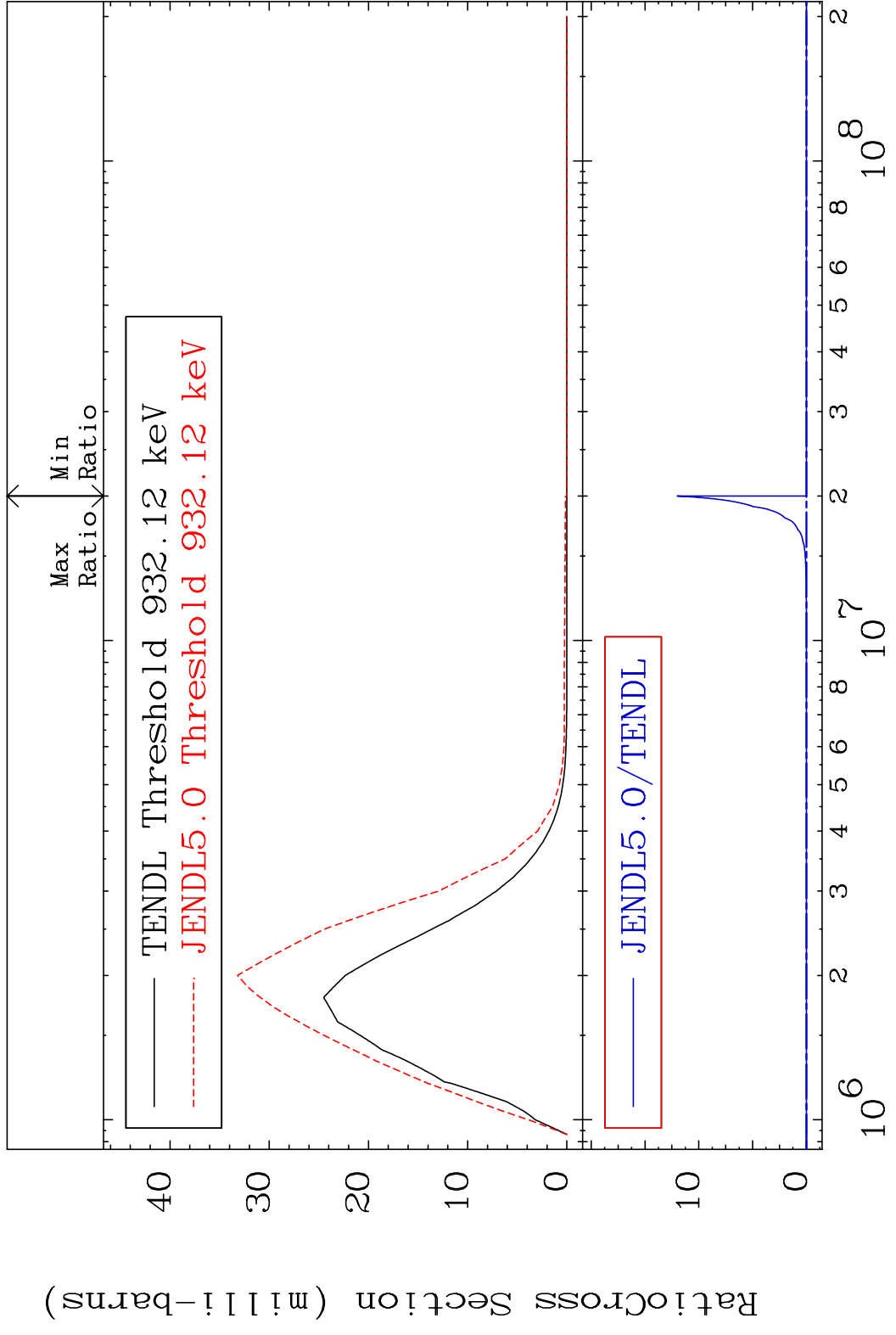


MAT 5829 MT= 62 (n, n') Level 58-Ce-137m
 Cross Section -100.0 To 9999. %



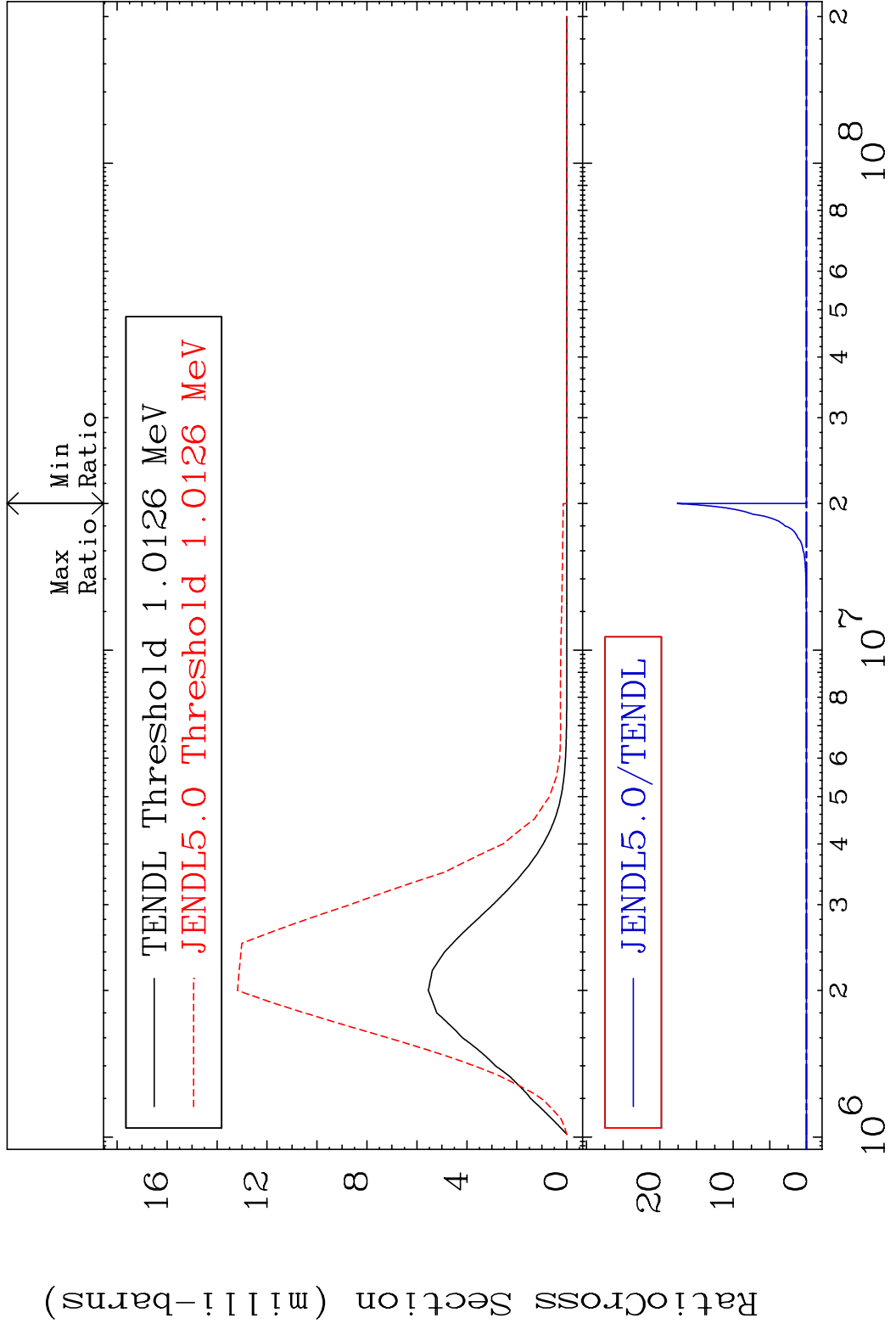
23 Incident Energy (eV) 58-Ce-137m

MAT 5829 MT= 63 (n, n') Level 58-Ce-137m
 Cross Section -100.0 To 9999. %

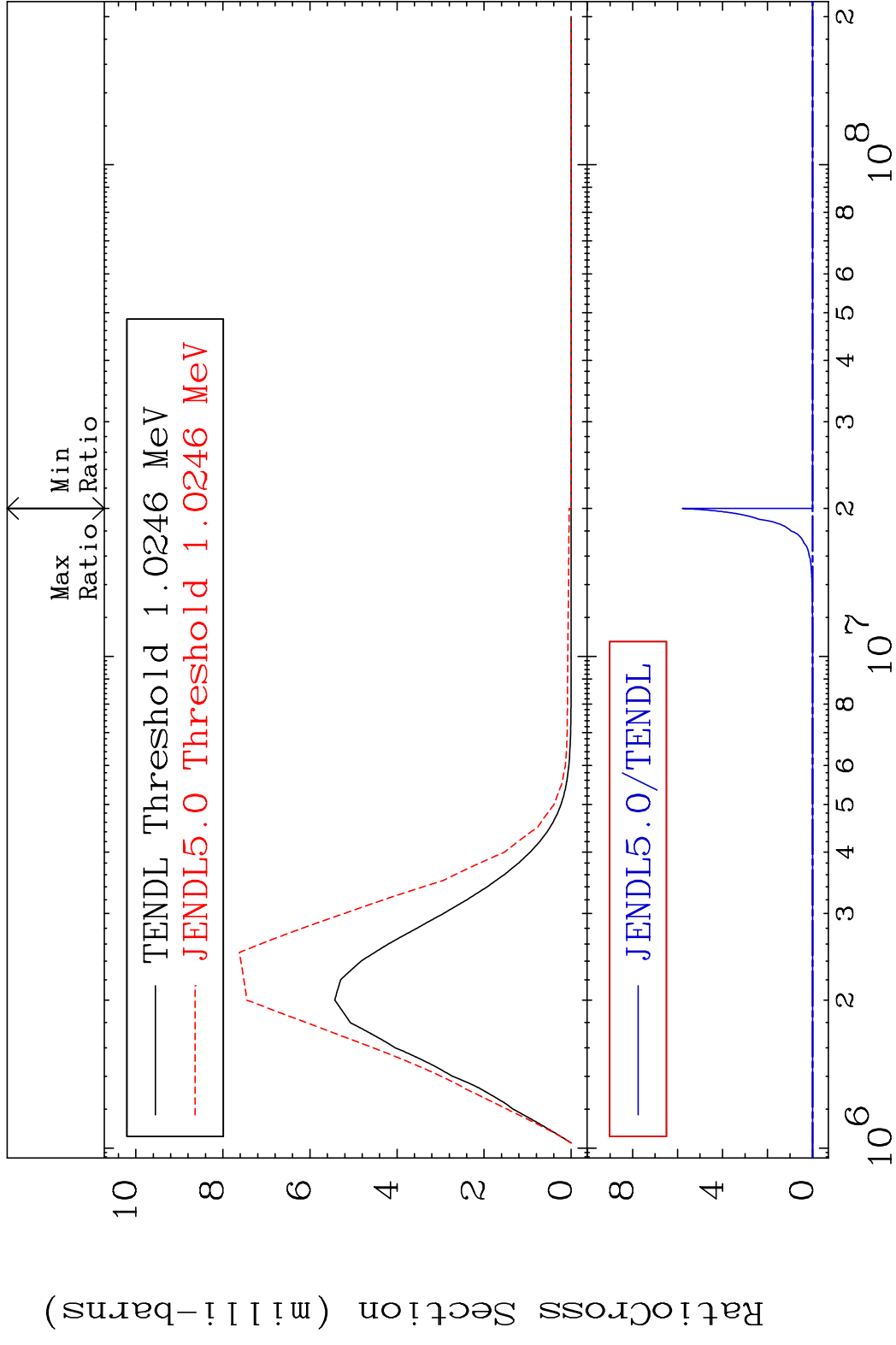


24 Incident Energy (eV) 58-Ce-137m

MAT 5829 MT= 64 (n, n') Level 58-Ce-137m
 Cross Section -100.0 To 9999. %

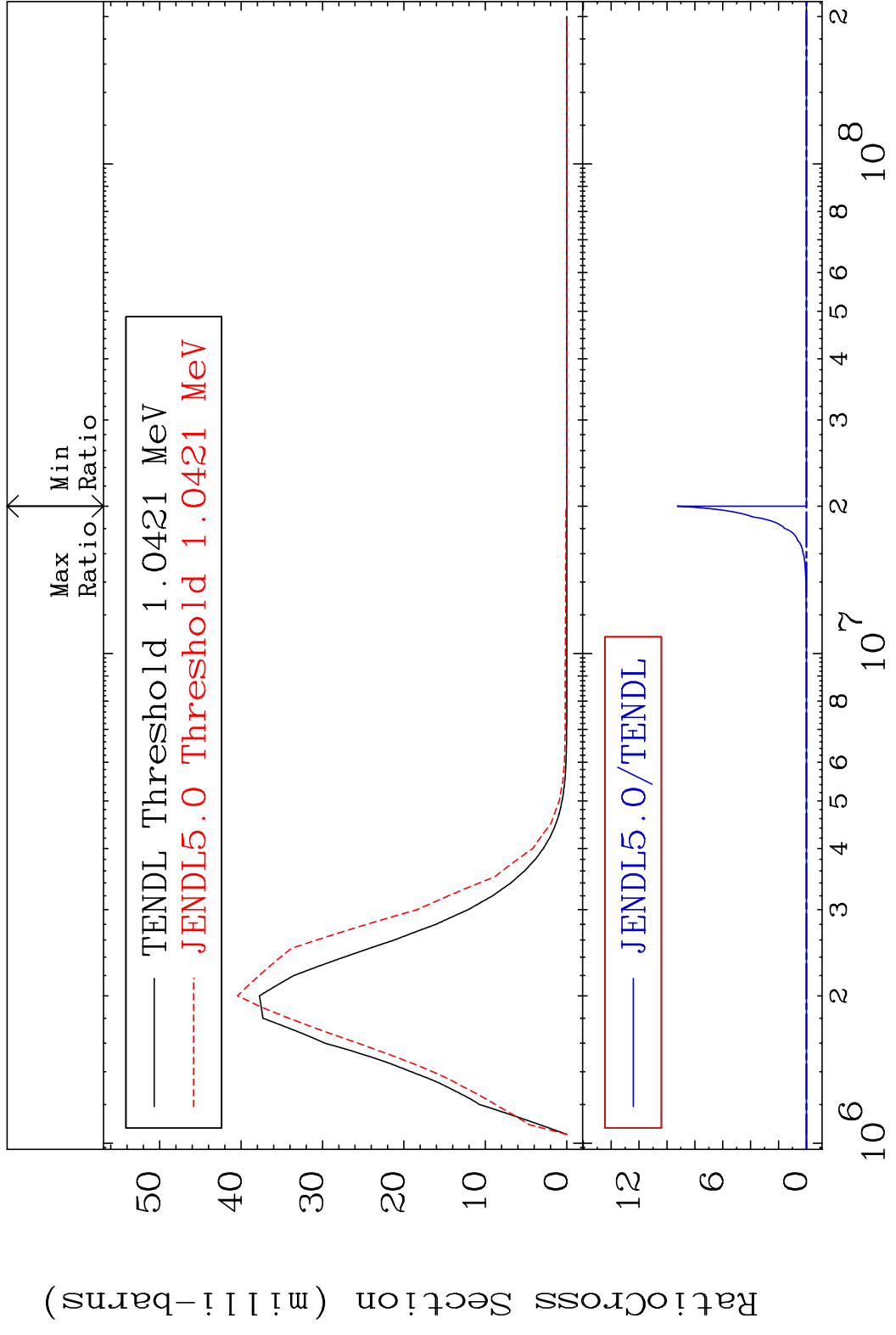


MAT 5829 MT= 65 (n, n') Level 58-Ce-137m
 Cross Section -100.0 To 9999. %

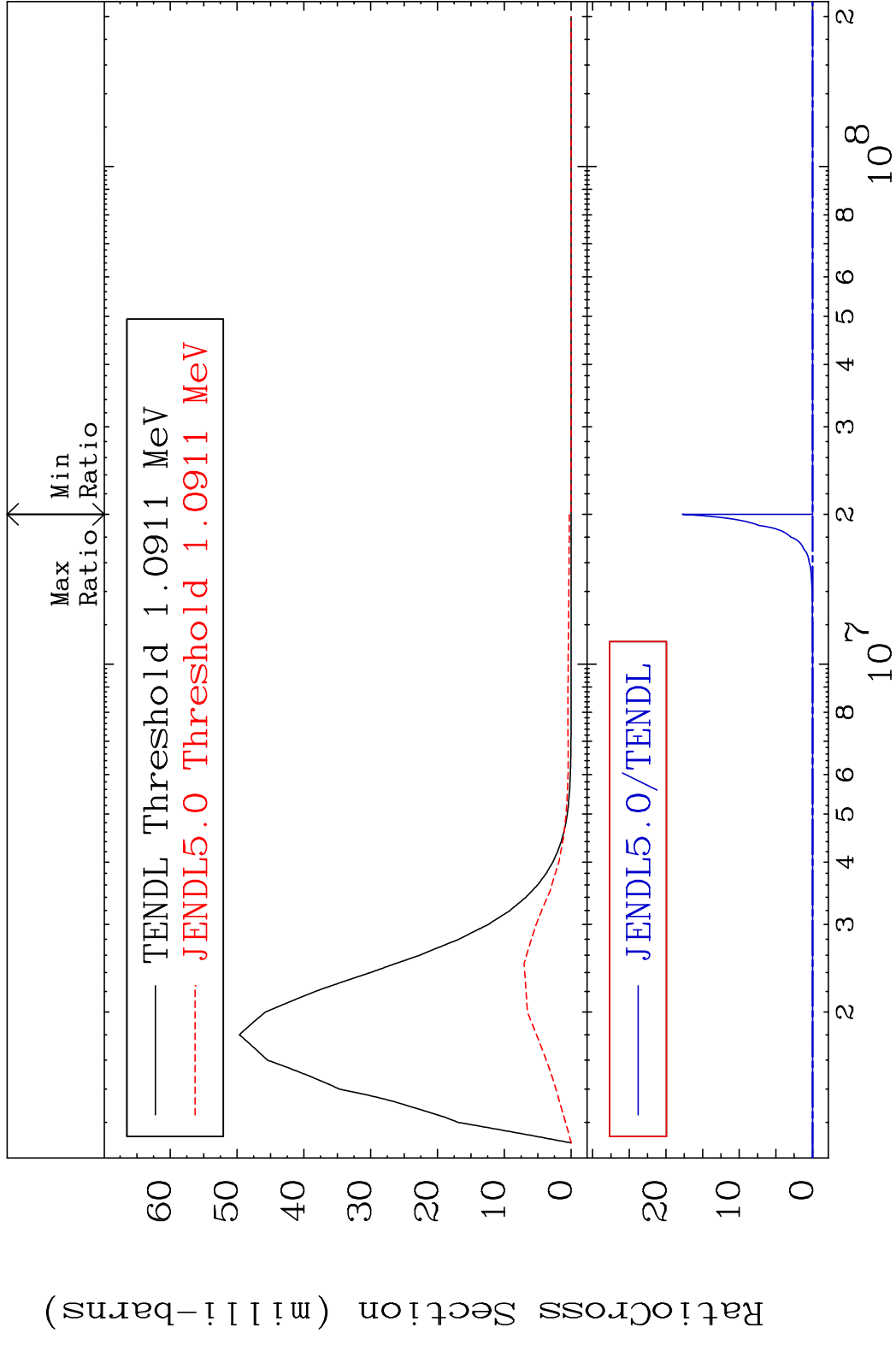


26 Incident Energy (eV) 58-Ce-137m

MAT 5829 MT= 66 (n, n') Level 58-Ce-137m
 Cross Section -100.0 To 9999. %

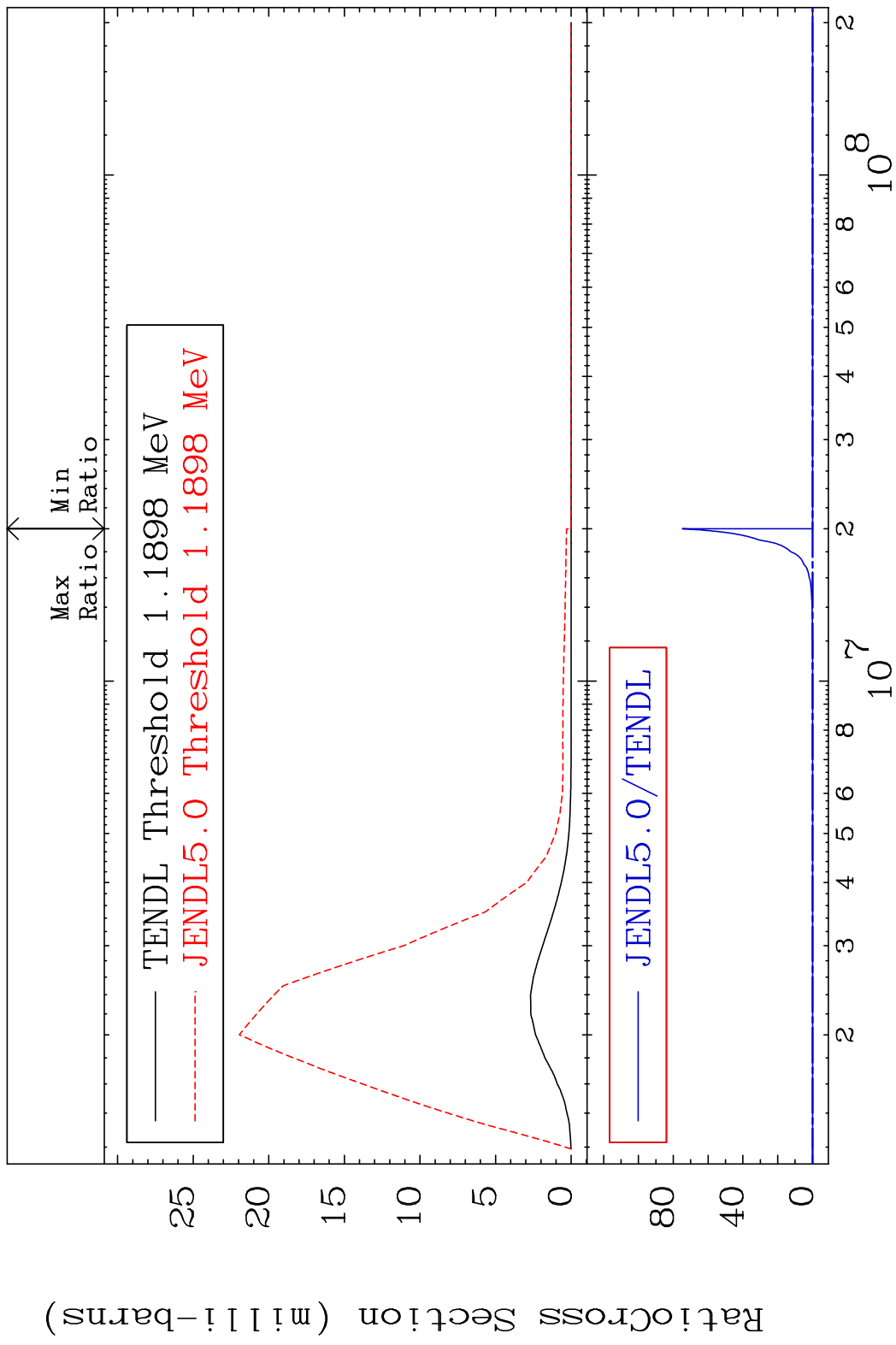


MAT 5829 MT= 67 (n, n') Level 58-Ce-137m
 Cross Section -100.0 To 9999. %

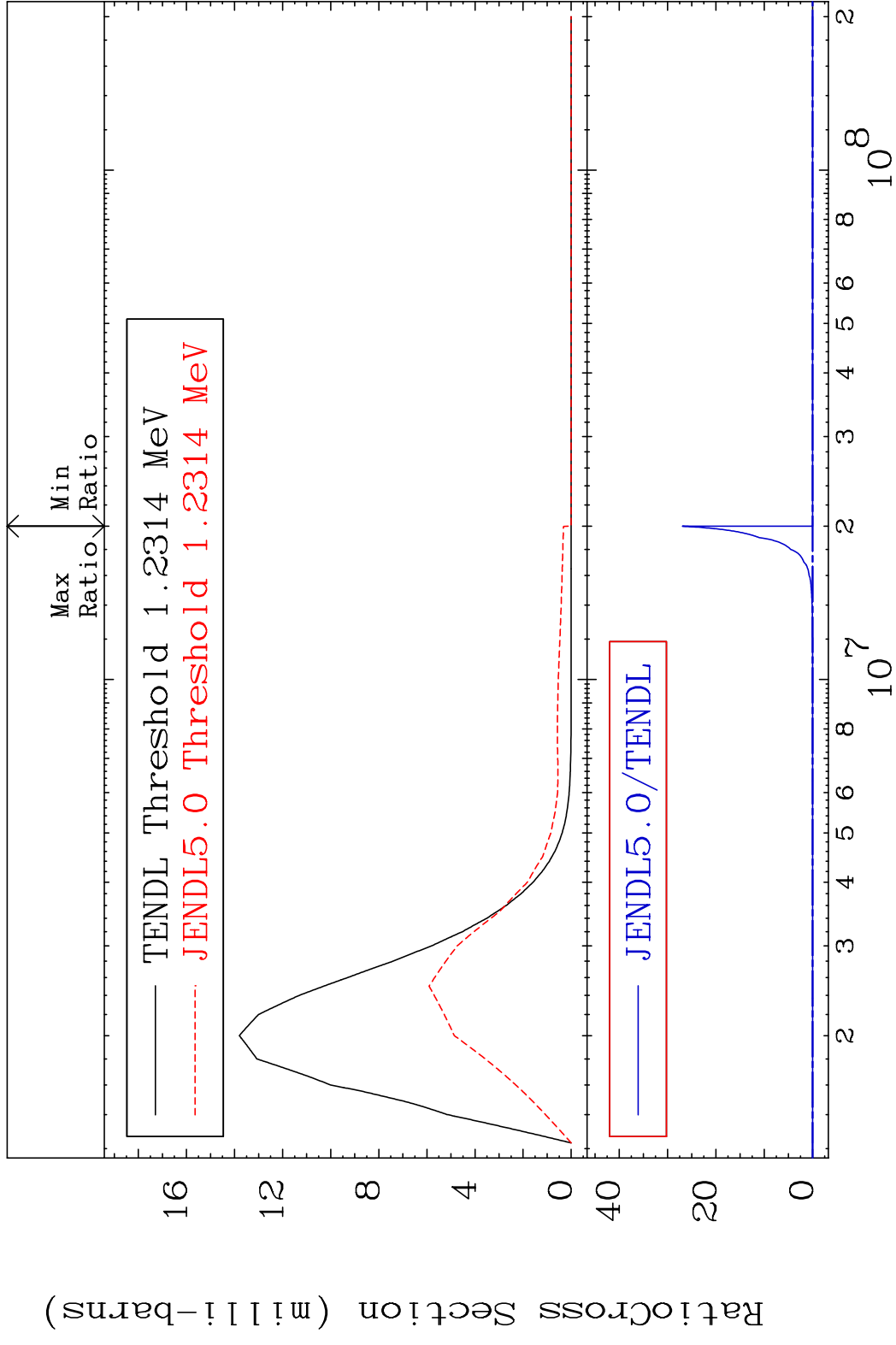


28 Incident Energy (eV) 58-Ce-137m

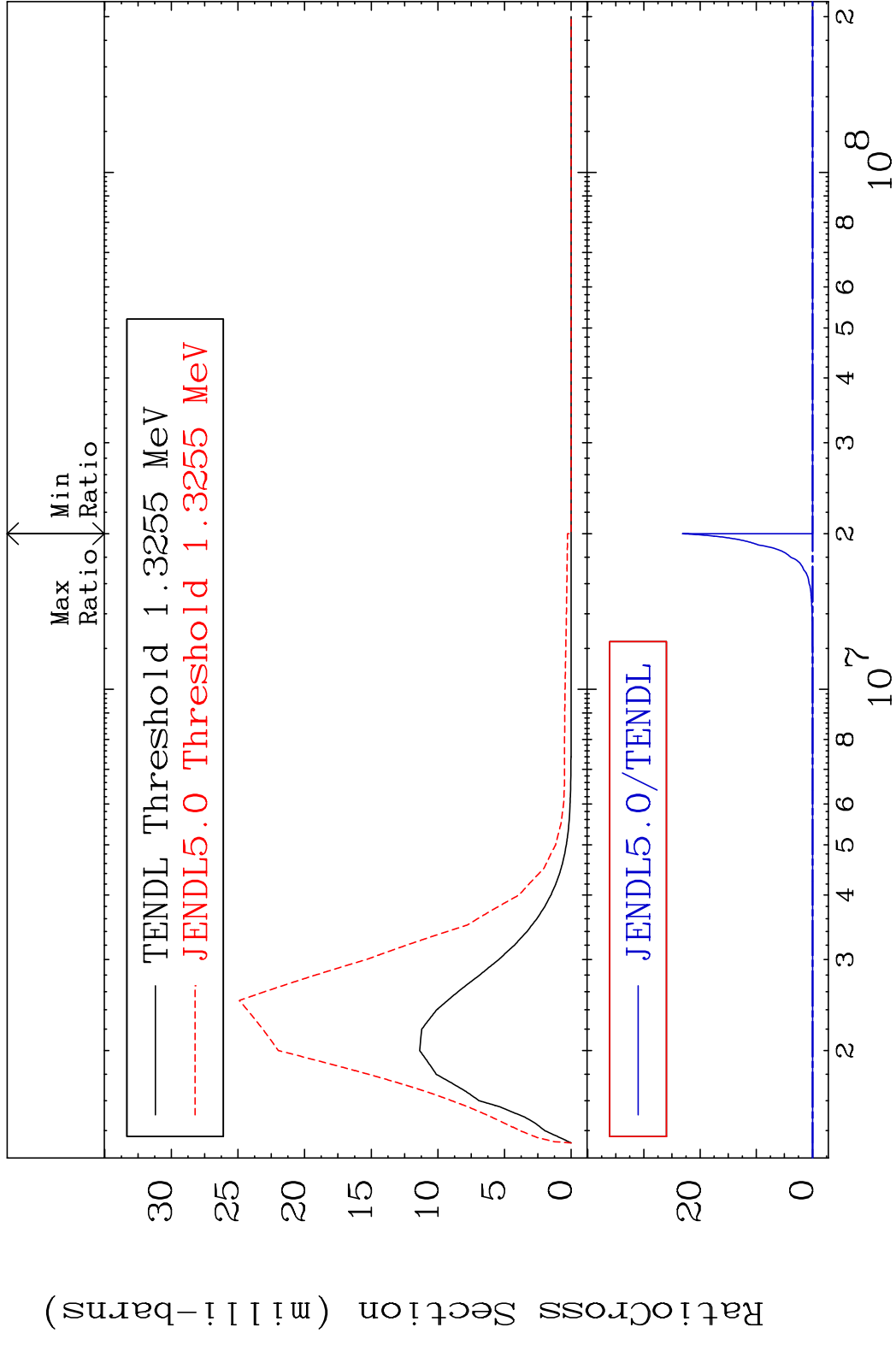
MAT 5829 MT= 68 (n, n') Level 58-Ce-137m
 Cross Section -100.0 To 9999. %



MAT 5829 MT= 69 (n, n') Level 58-Ce-137m
 Cross Section -100.0 To 9999. %



MAT 5829 MT= 70 (n, n') Level 58-Ce-137m
 Cross Section -100.0 To 9999. %

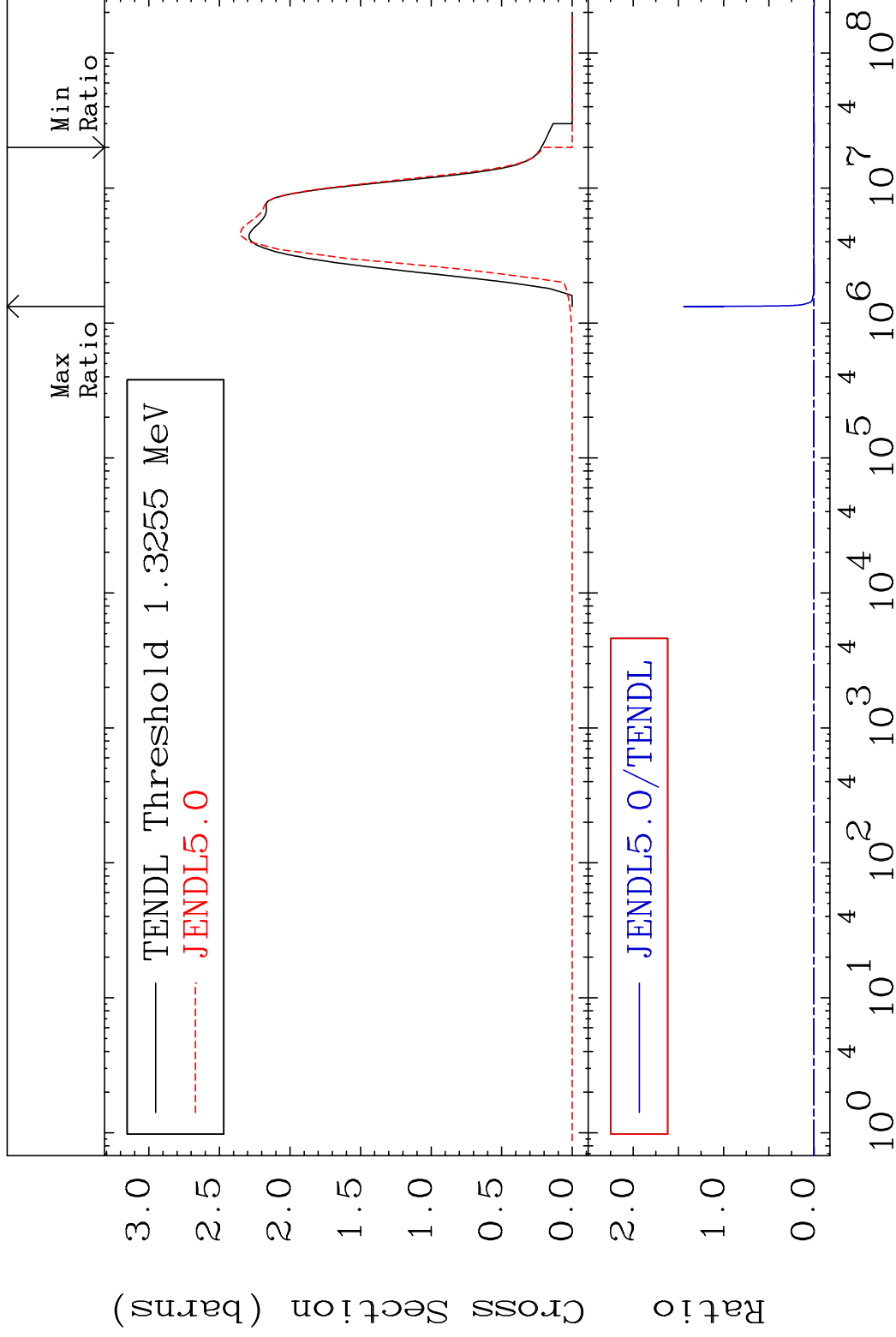


MAT 5829

(n,n') Continuum

58-Ce-137m

Cross Section -100.0 To 9999. %



32

Incident Energy (eV)

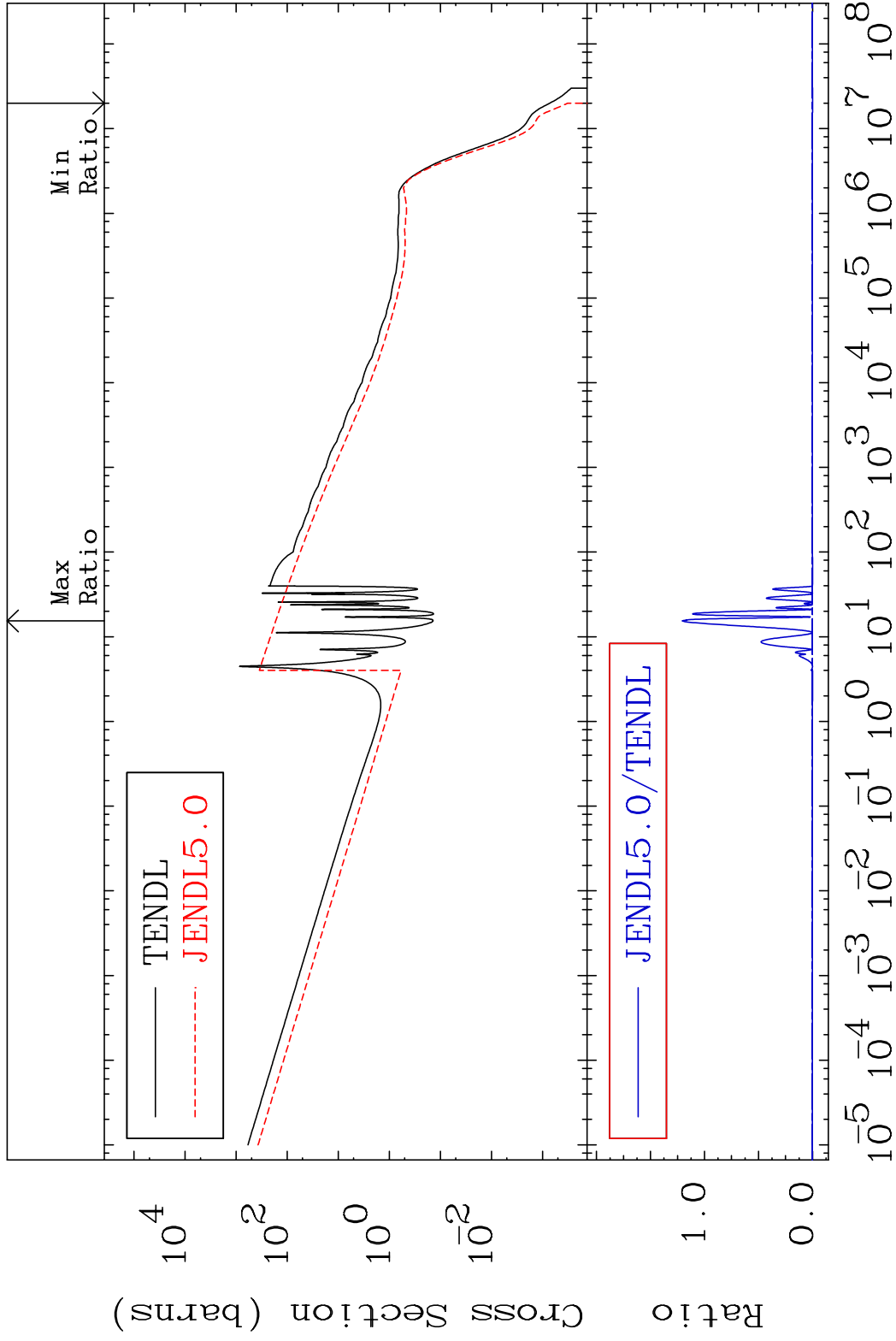
58-Ce-137m

MAT 5829

58-Ce-137m

(n, γ)

Cross Section -100.0 To 9999. %



33

Incident Energy (eV)

58-Ce-137m

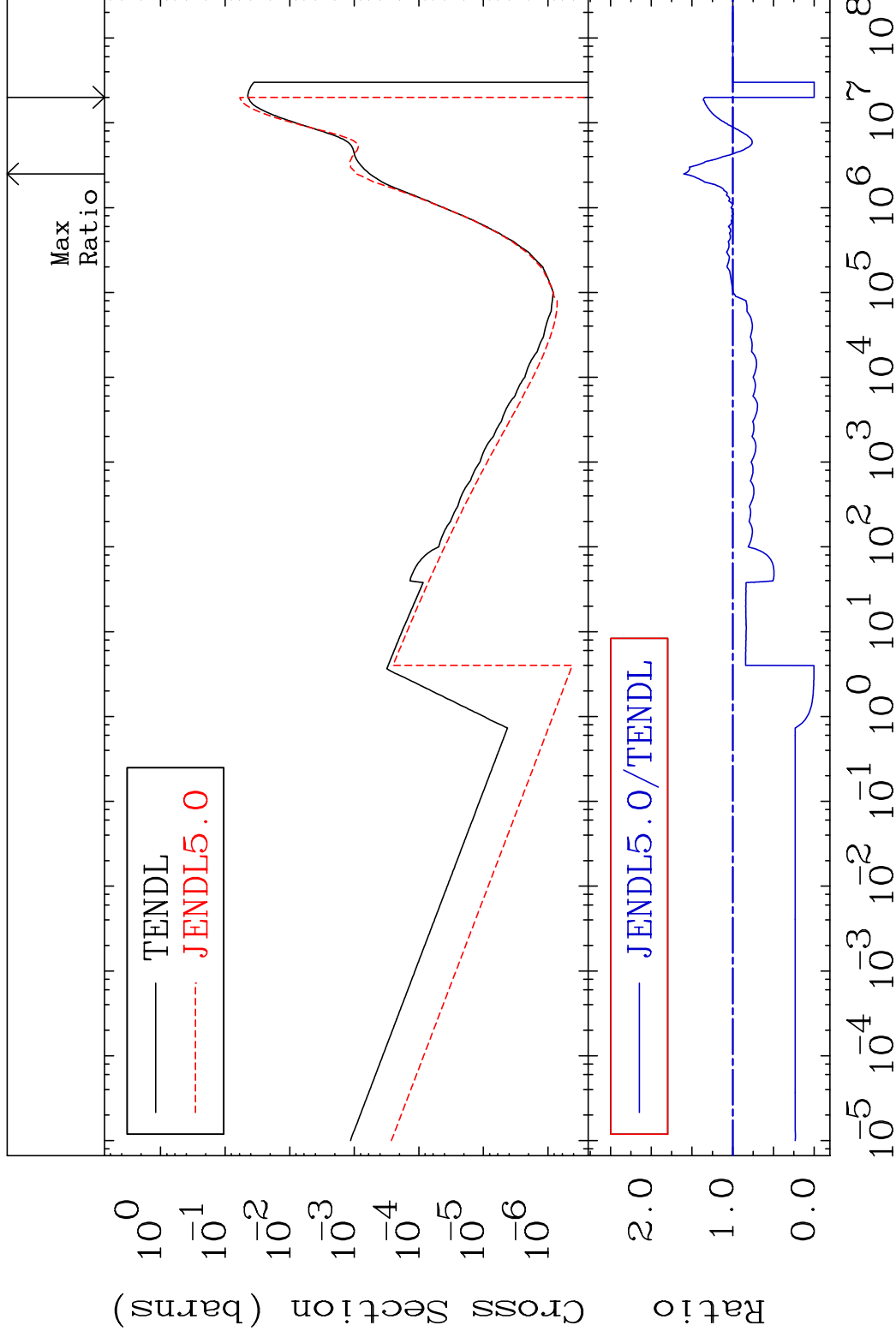
MAT 5829

(n, p)

58-Ce-137m

Cross Section

-100.0 To 60.27 %



34

Incident Energy (eV)

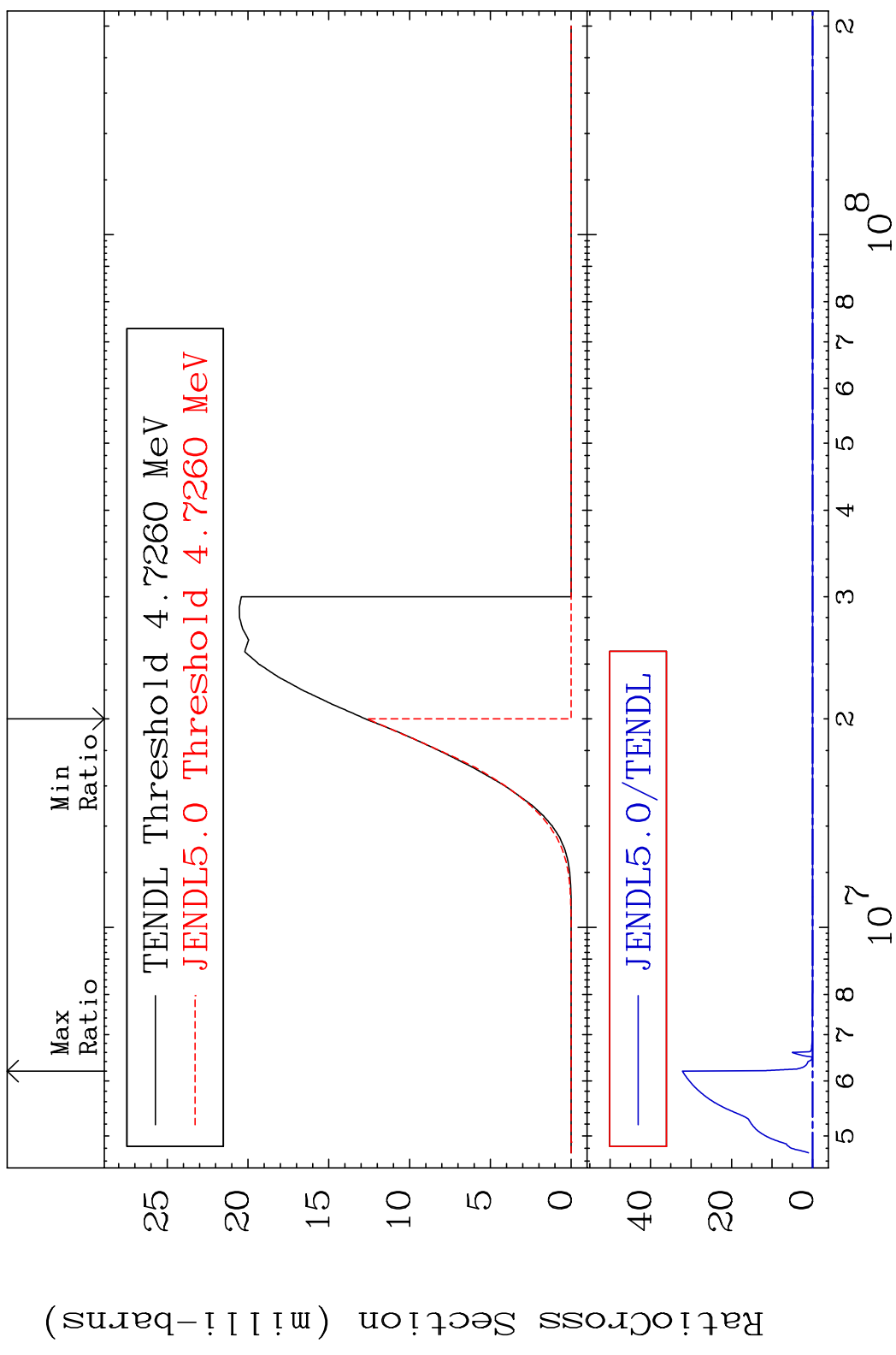
58-Ce-137m

MAT 5829

(n, d)

58-Ce-137m

Cross Section -100.0 To 9999. %



35

Incident Energy (eV)

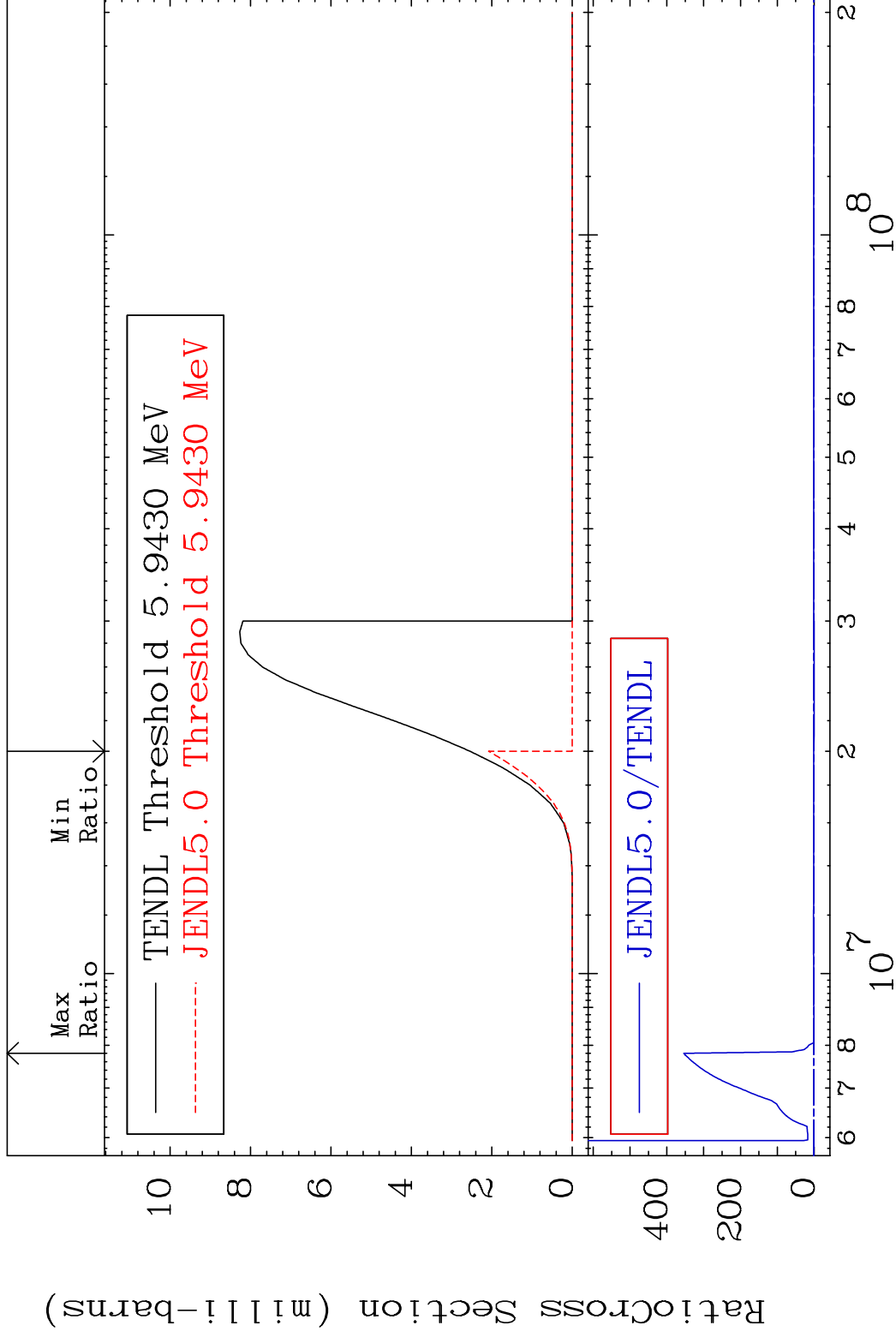
58-Ce-137m

MAT 5829

(n, t)

58-Ce-137m

Cross Section -100.0 To 9999. %



36

Incident Energy (eV)

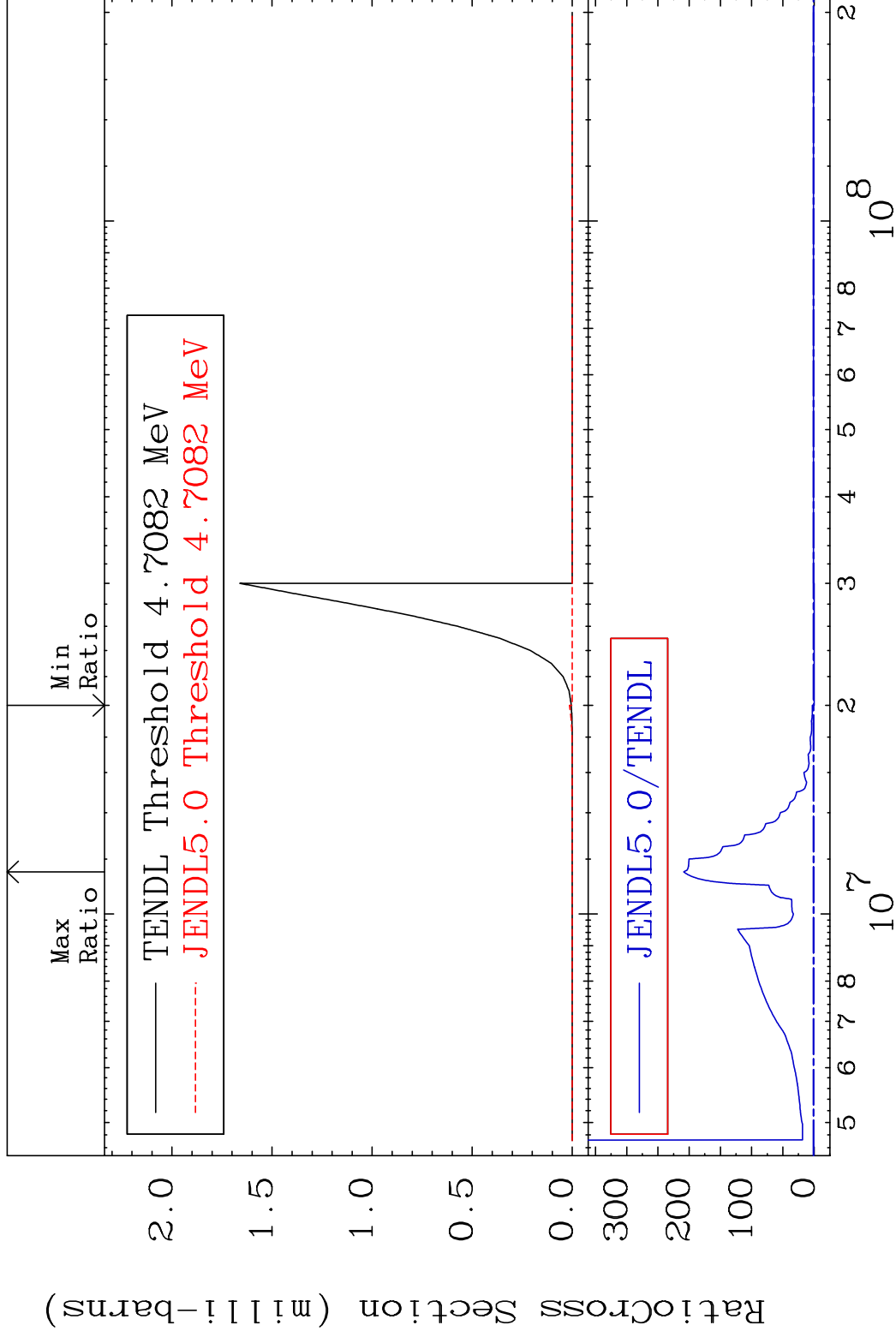
58-Ce-137m

MAT 5829

(n, He-3)

58-Ce-137m

Cross Section -100.0 To 9999. %



37

Incident Energy (eV)

58-Ce-137m

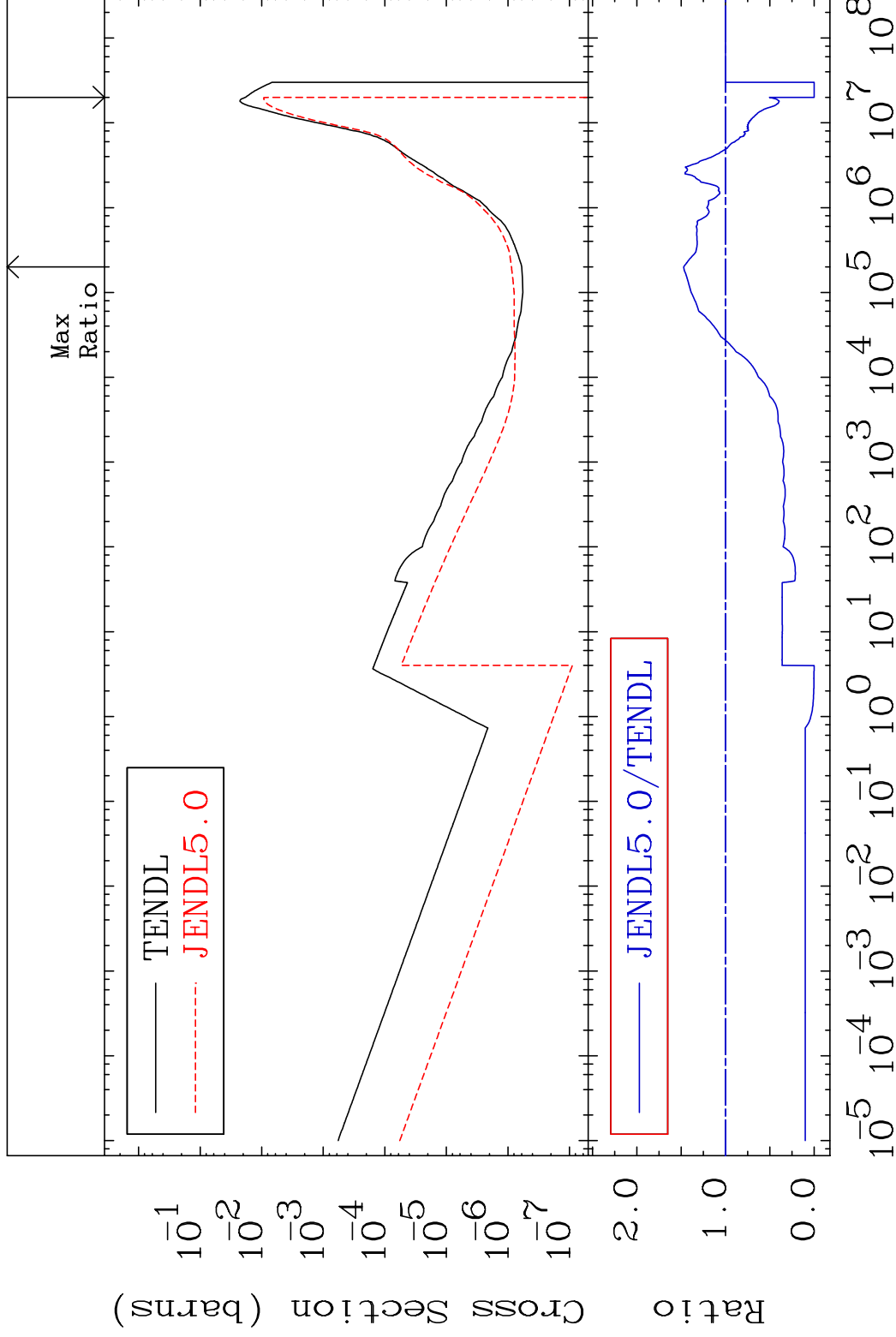
MAT 5829

(n, α)

58-Ce-137m

Cross Section

-100.0 To 47.15 %



38

Incident Energy (eV)

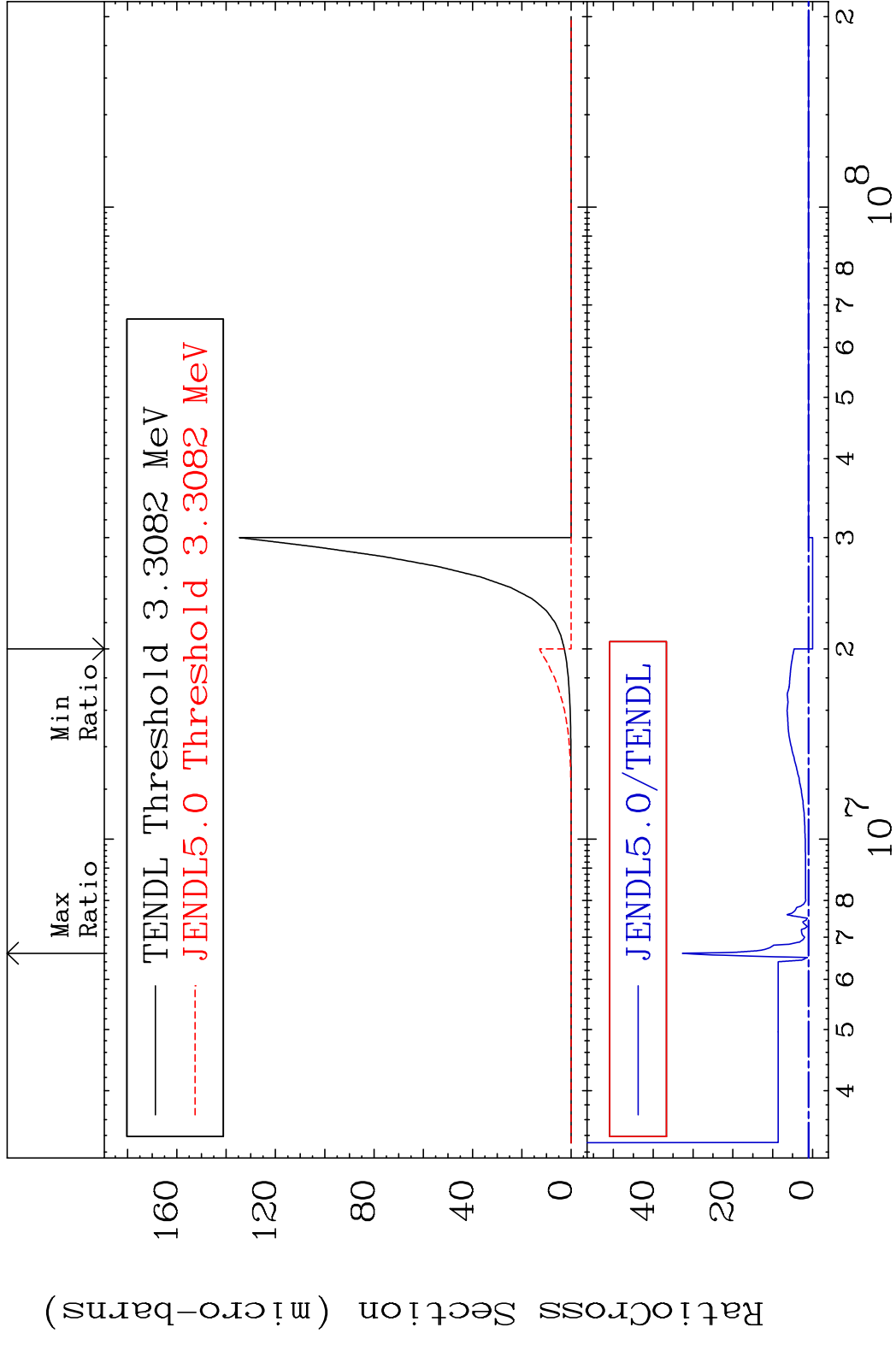
58-Ce-137m

MAT 5829

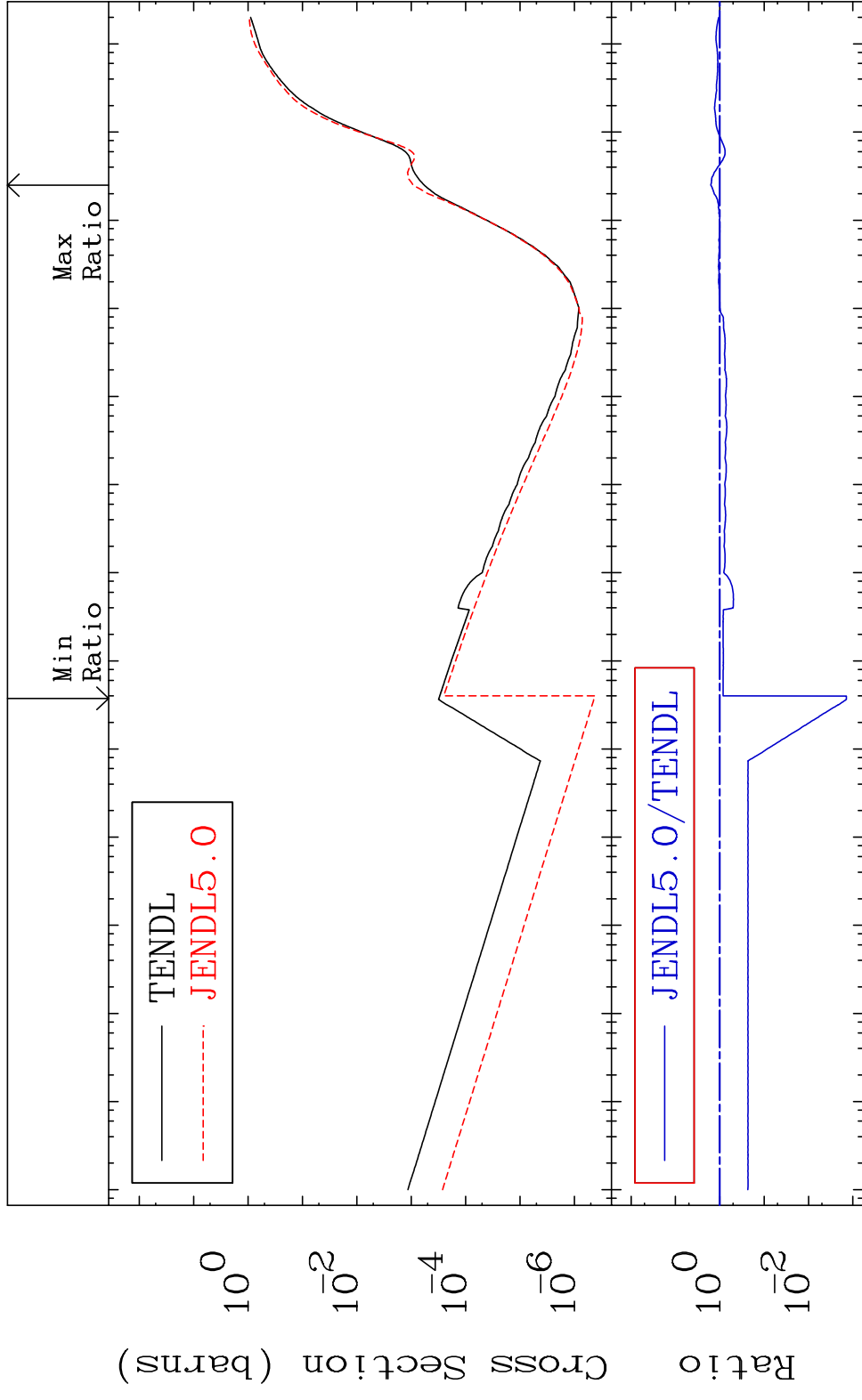
(n,2p)

58-Ce-137m

Cross Section -100.0 To 3168. %



MAT 5829 Hydrogen Production 58-Ce-137m
 Cross Section -99.86 To 60.27 %



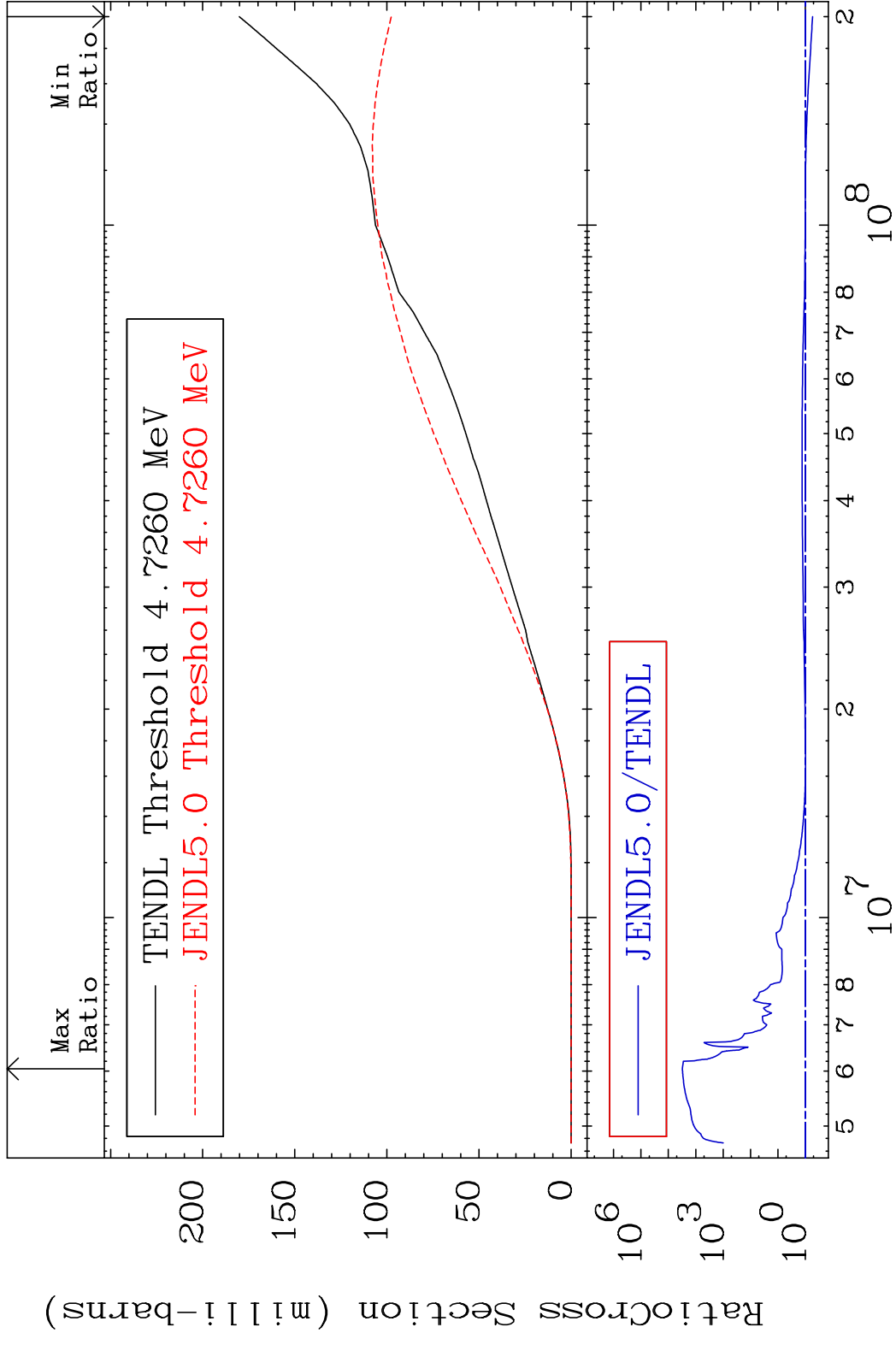
40 Incident Energy (eV) 58-Ce-137m

MAT 5829

Deuterium Production

58-Ce-137m

Cross Section -45.80 To 9999. %



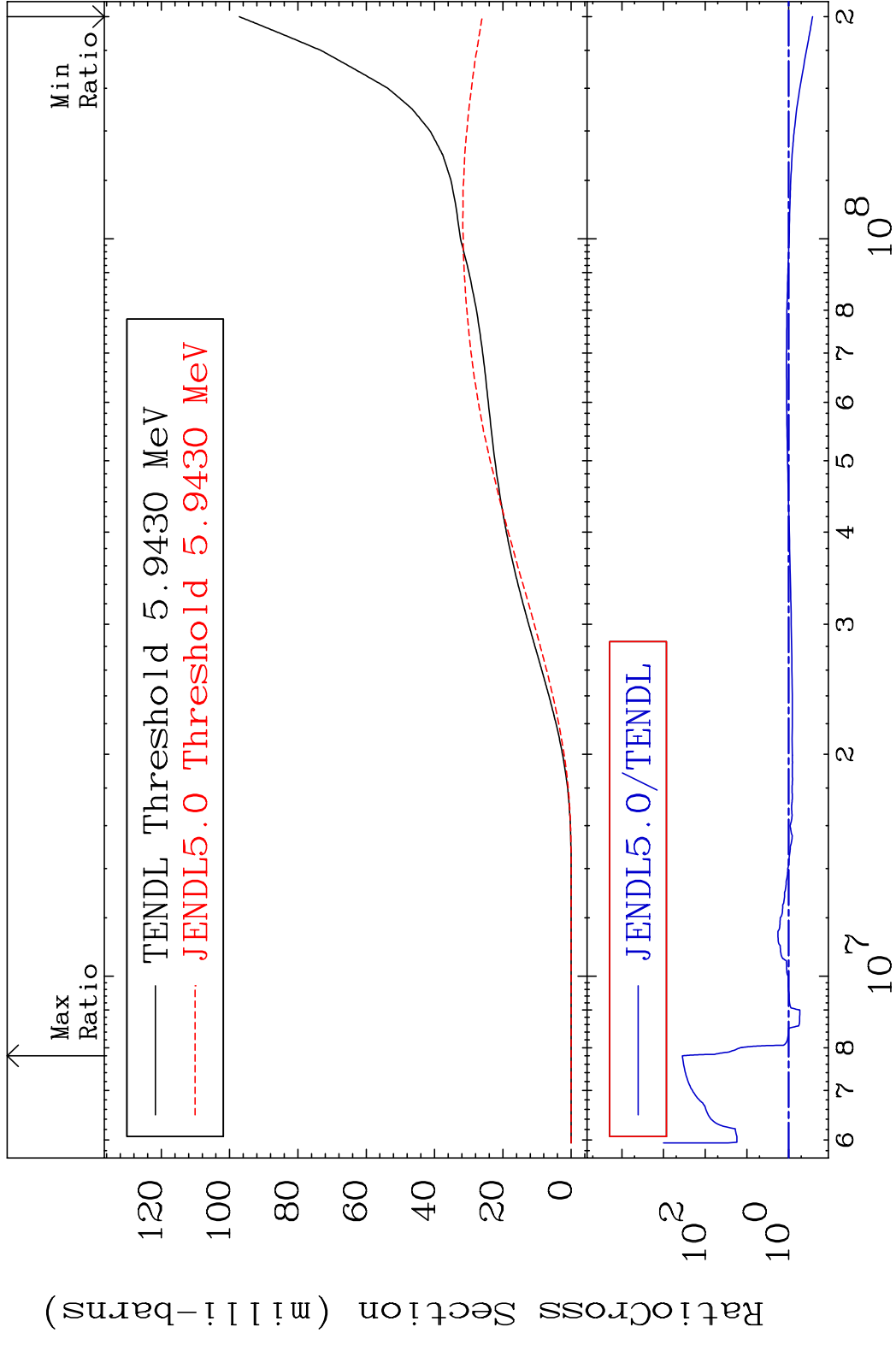
MAT 5829

Tritium Production

58-Ce-137m

Cross Section

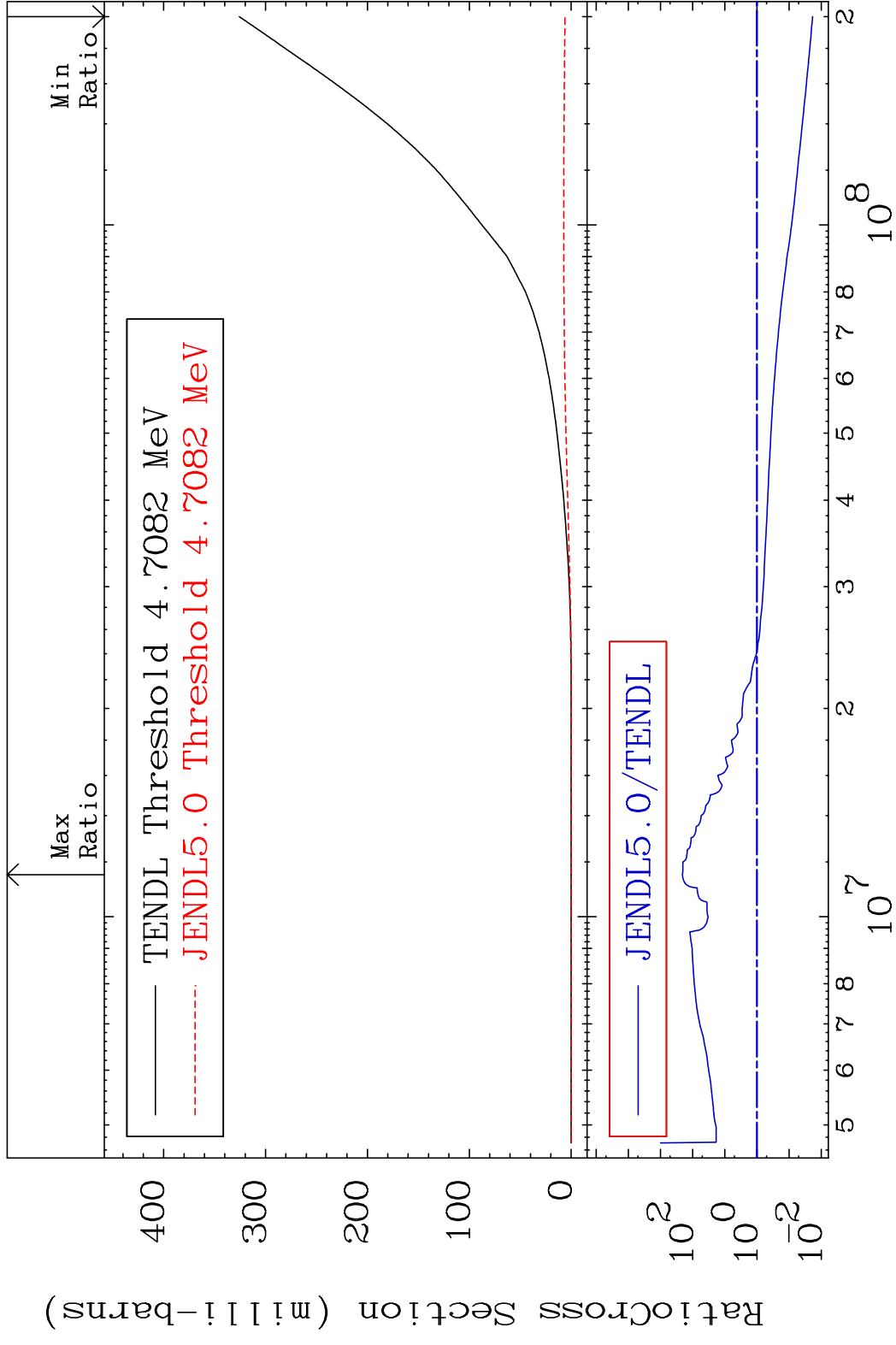
-73.19 To 9999. %



MAT 5829

He-3 Production
Cross Section

58-Ce-137m
-98.14 To 9999. %

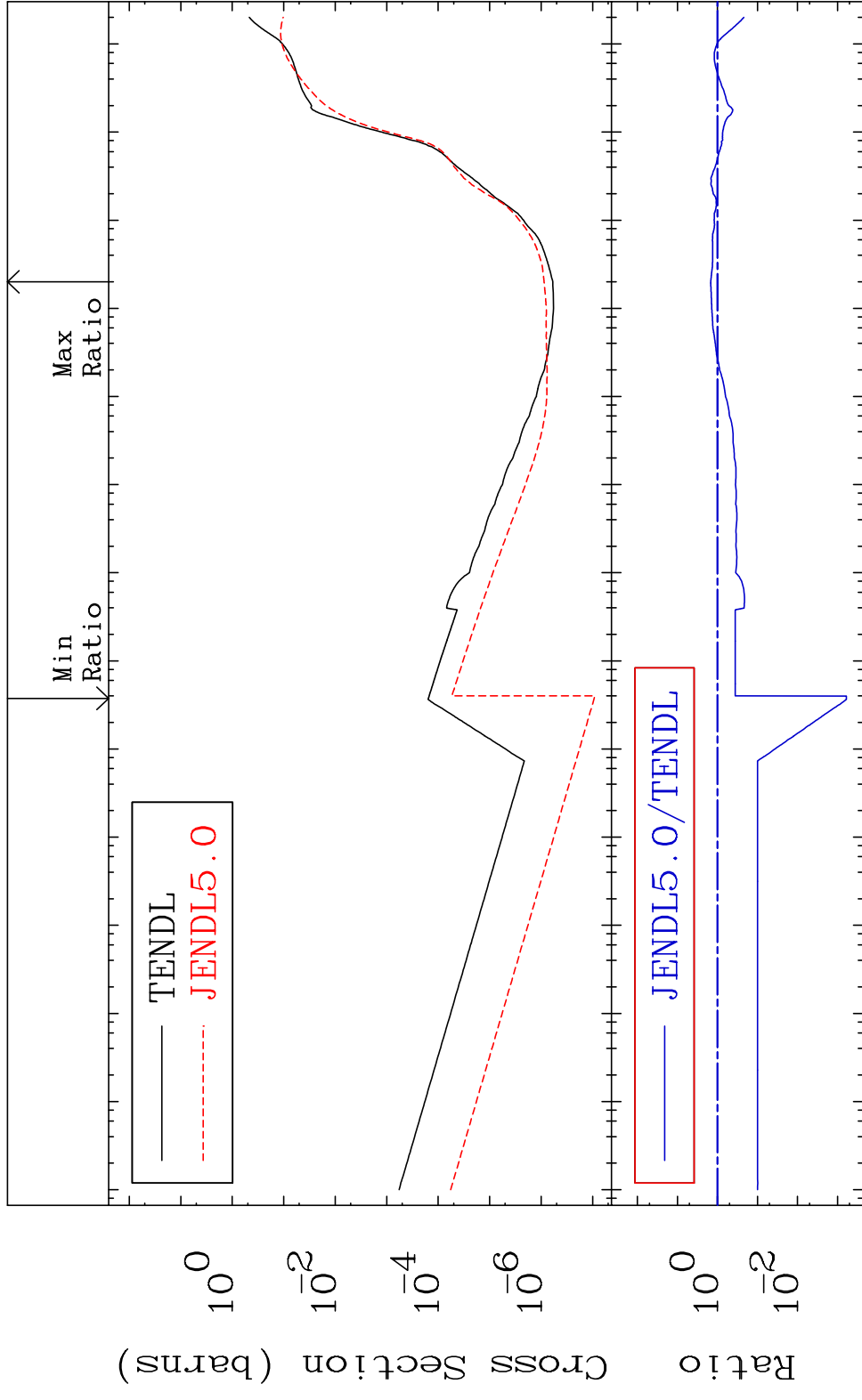


MAT 5829

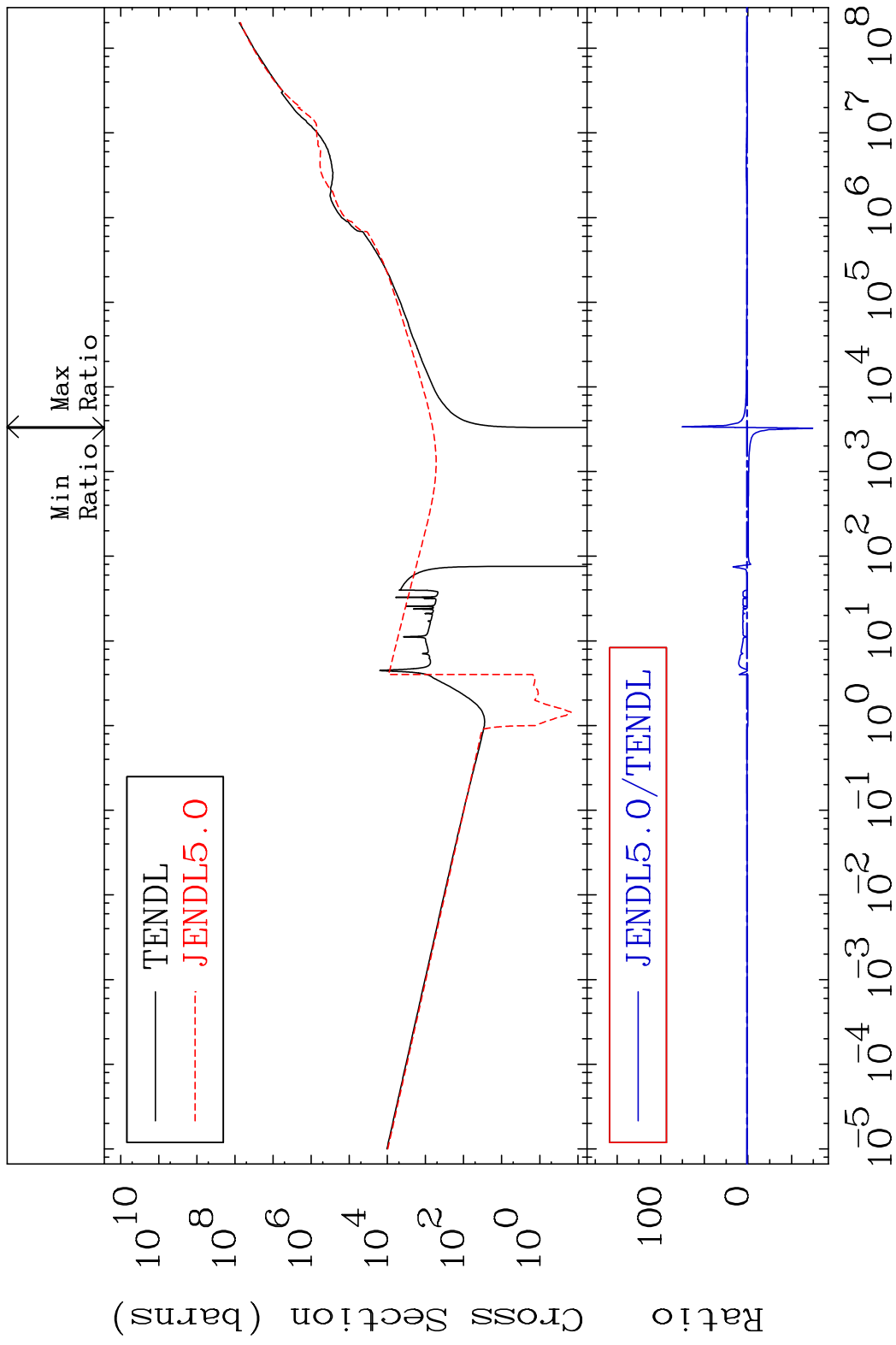
He-4 Production

58-Ce-137m

Cross Section -99.94 To 47.15 %



MAT 5829 Kerma total (eV-barns) 58-Ce-137m
 Cross Section -7512. To 7417. %

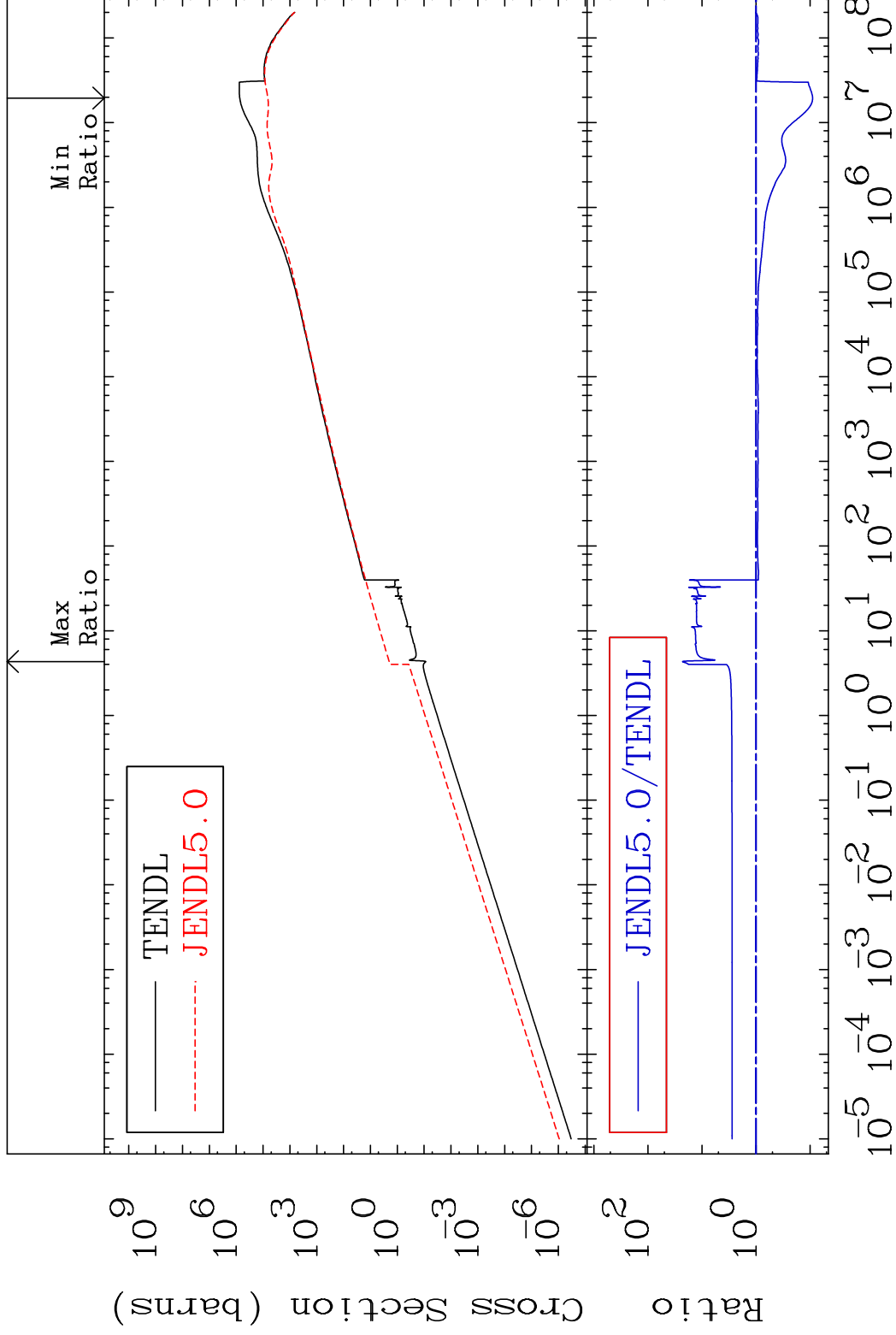


45 Incident Energy (eV) 58-Ce-137m

MAT 5829

Kerma elastic
Cross Section

58-Ce-137m
-90.95 To 2217. %

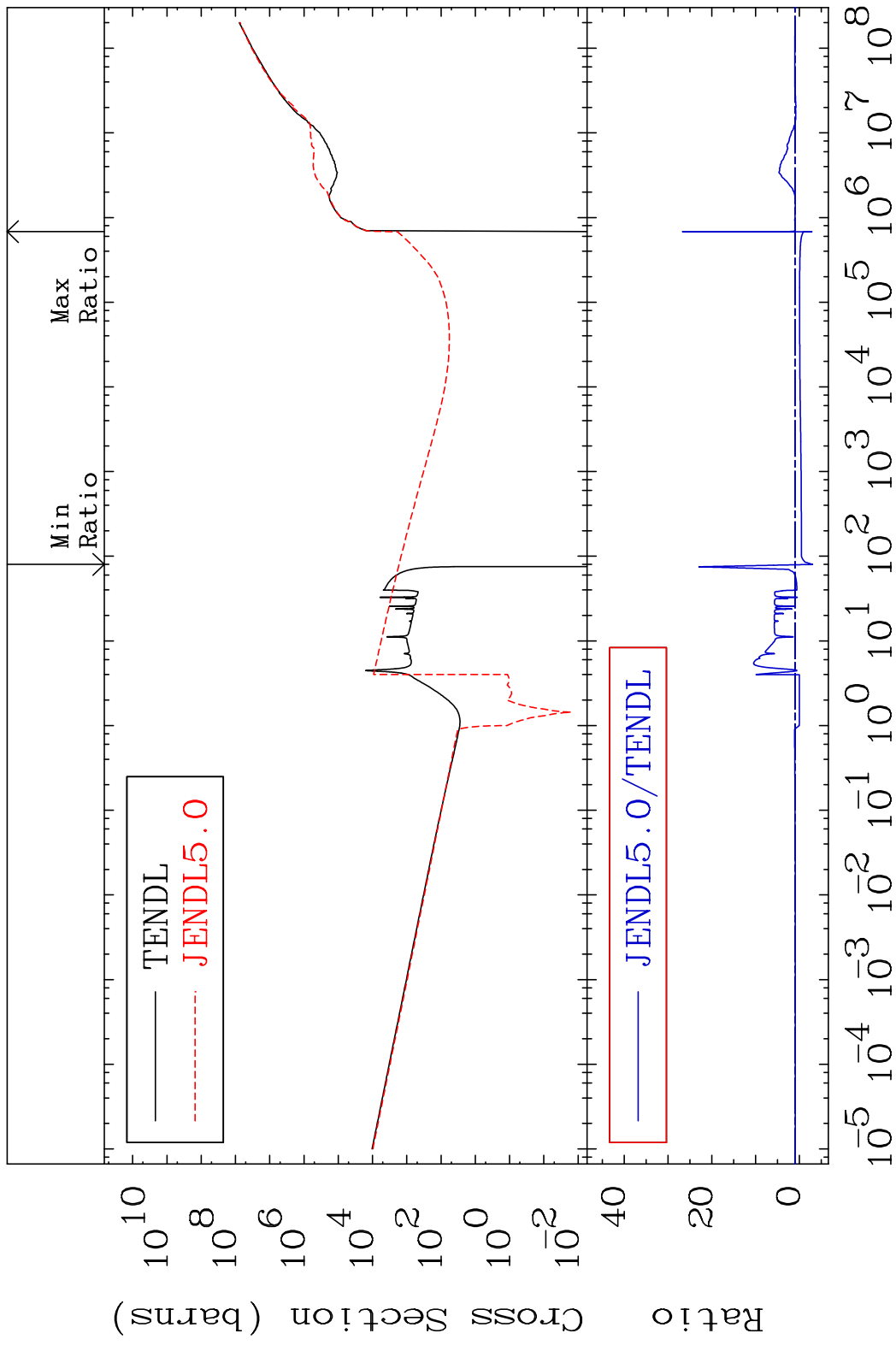


46

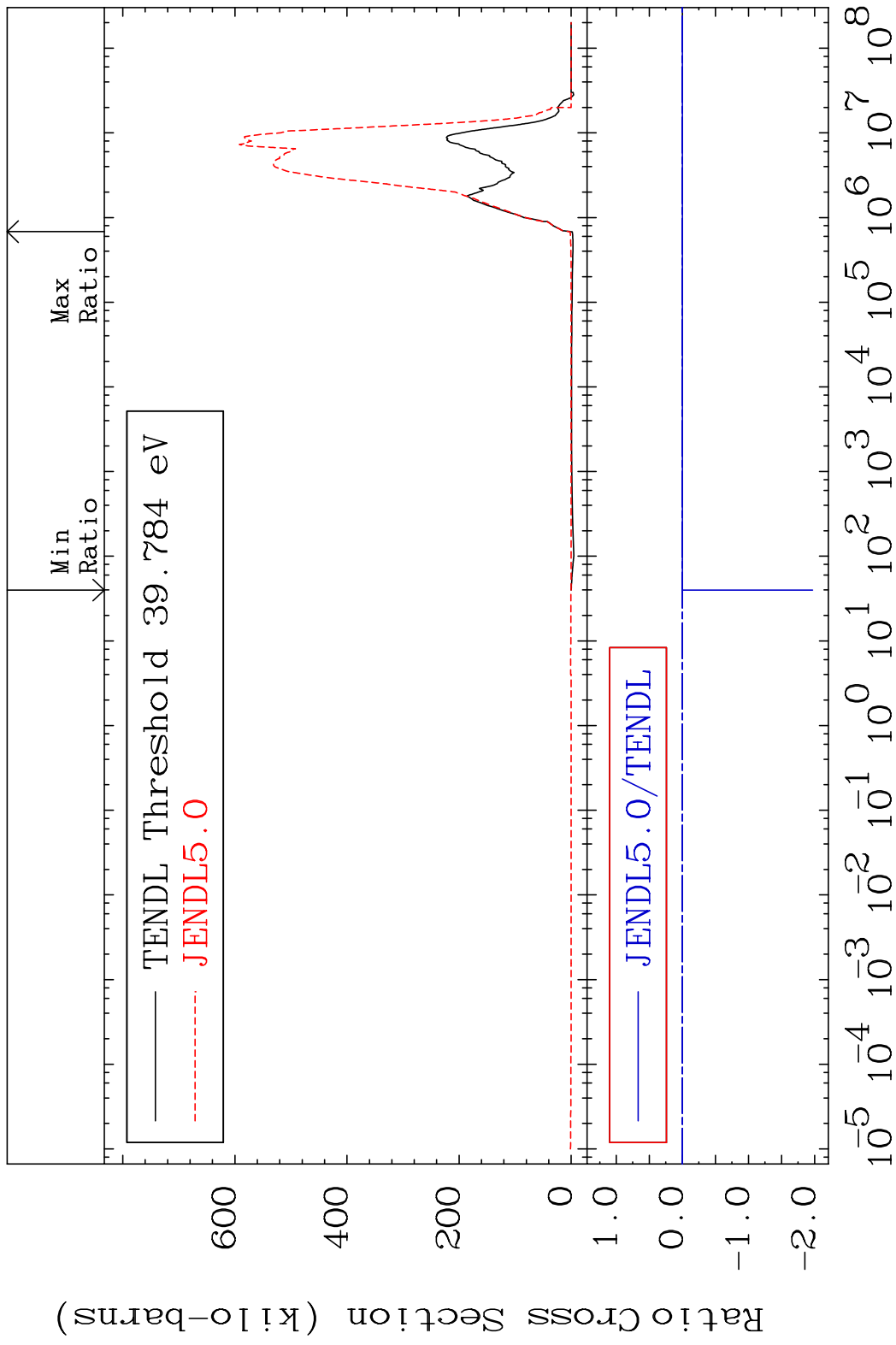
Incident Energy (eV)

58-Ce-137m

MAT 5829 Kerma non-elastic (all but mt2) 58-Ce-137m
 Cross Section -400.3 To 2574. %

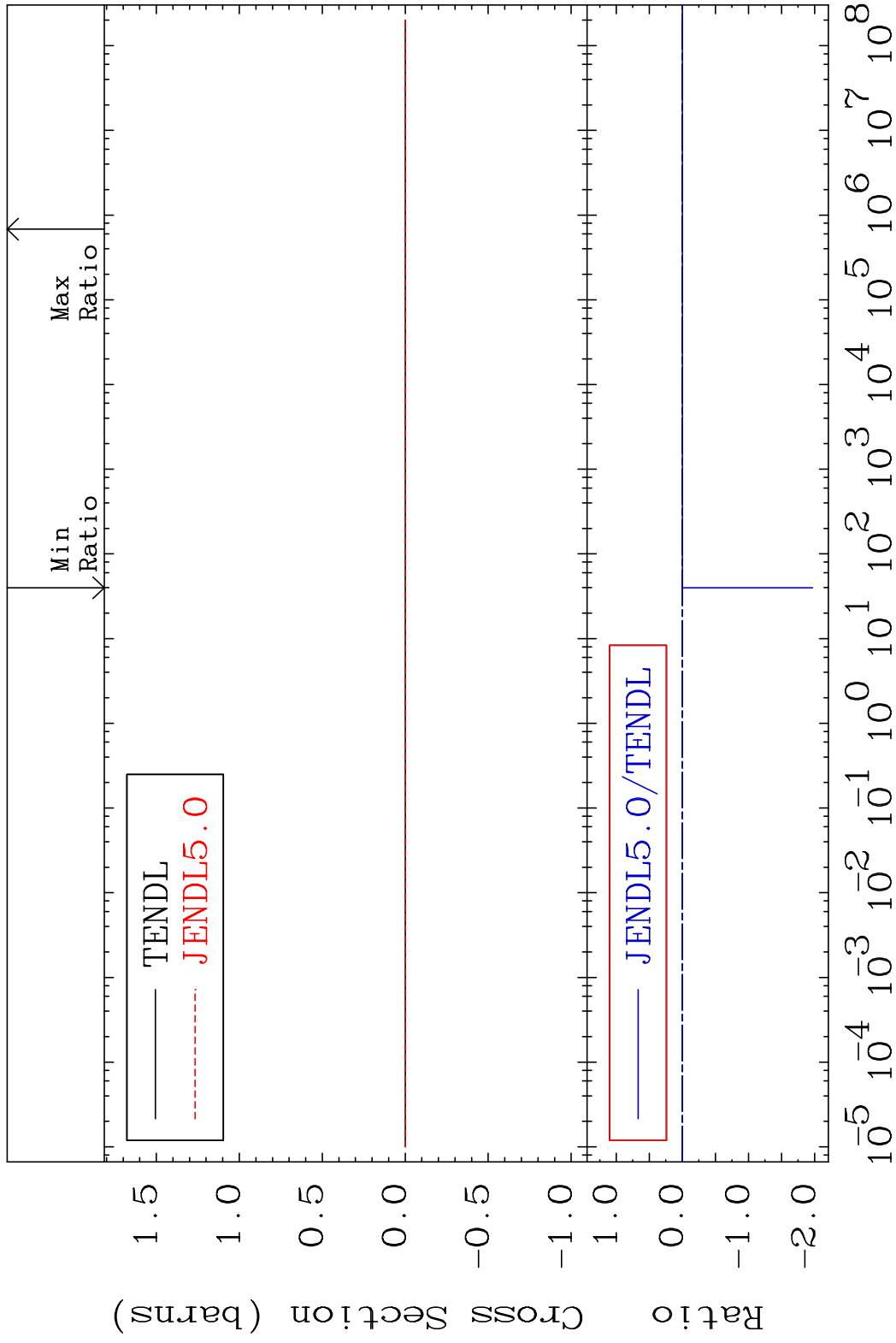


MAT 5829 Kerma inelastic (mt51-91) 58-Ce-137m
Cross Section -9999. To 4226. %



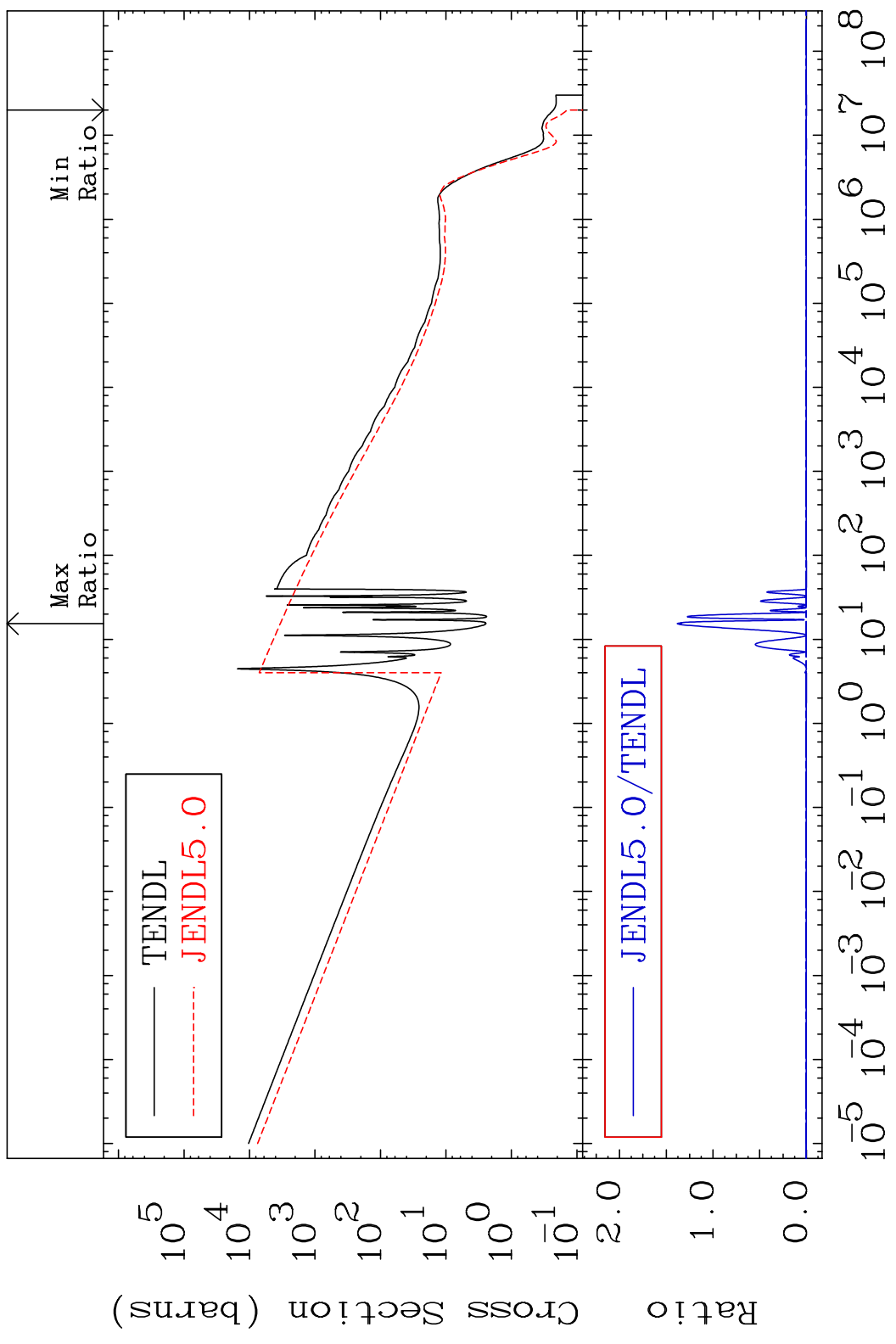
48 58-Ce-137m

MAT 5829 Kerma fission (mt18 or mt19-20-21-35) ~~58~~ Ce-137m
 Cross Section -9999. To 4226. %



MAT 5829

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

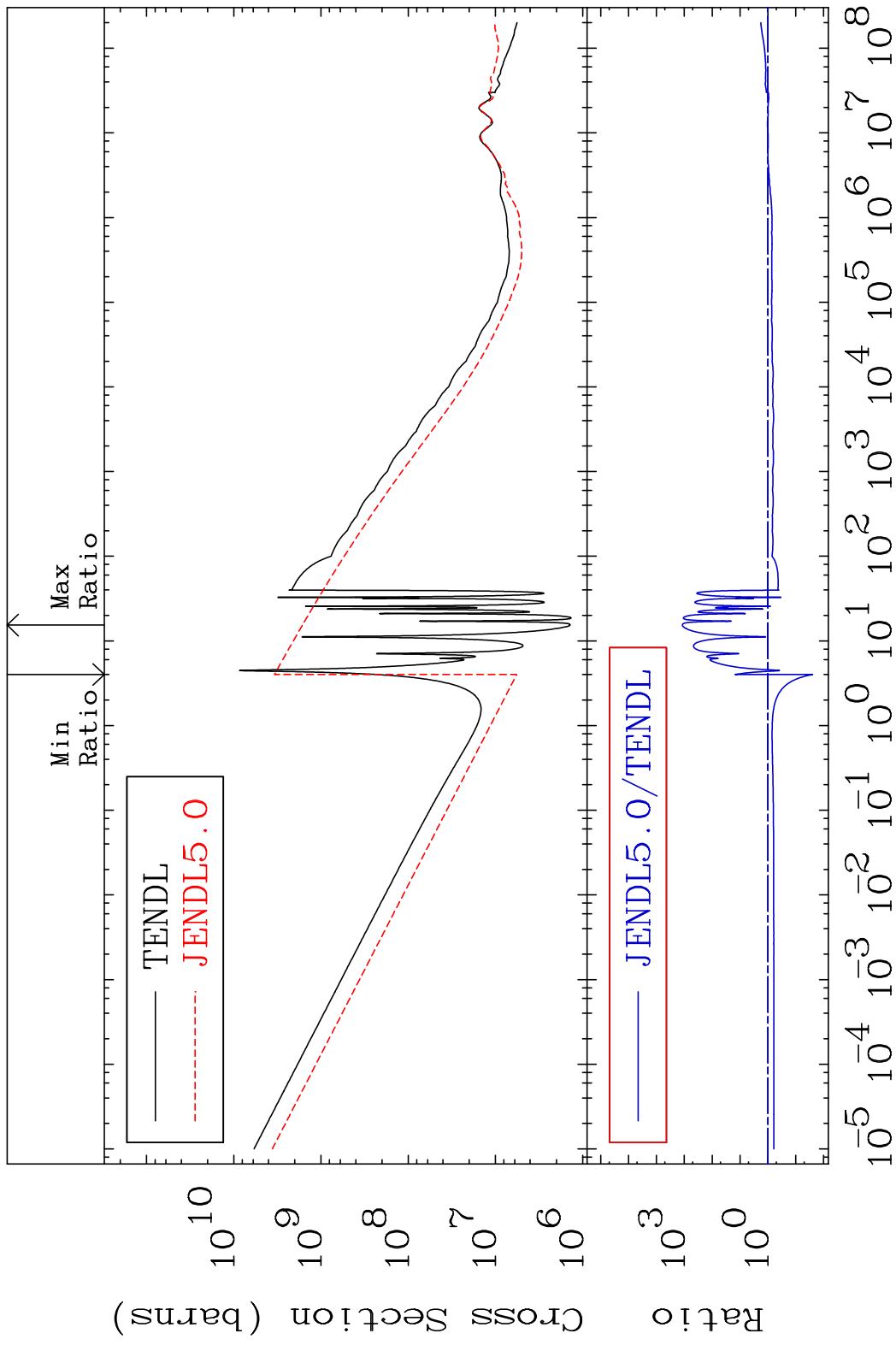


50

Incident Energy (eV)

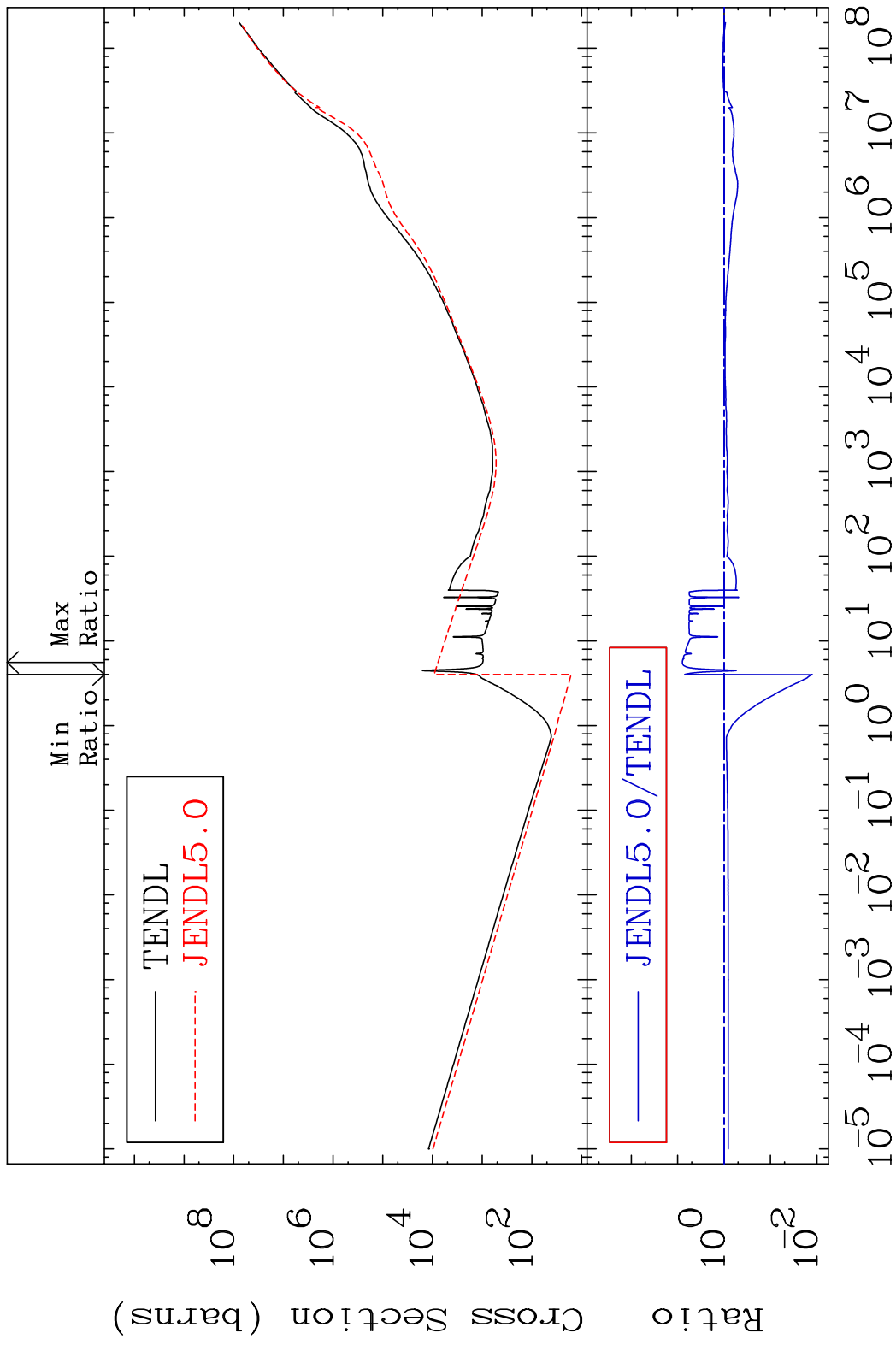
58-Ce-137m

MAT 5829 Total photon (eV-barns) 58-Ce-137m
 Cross Section -97.51 To 9999. %

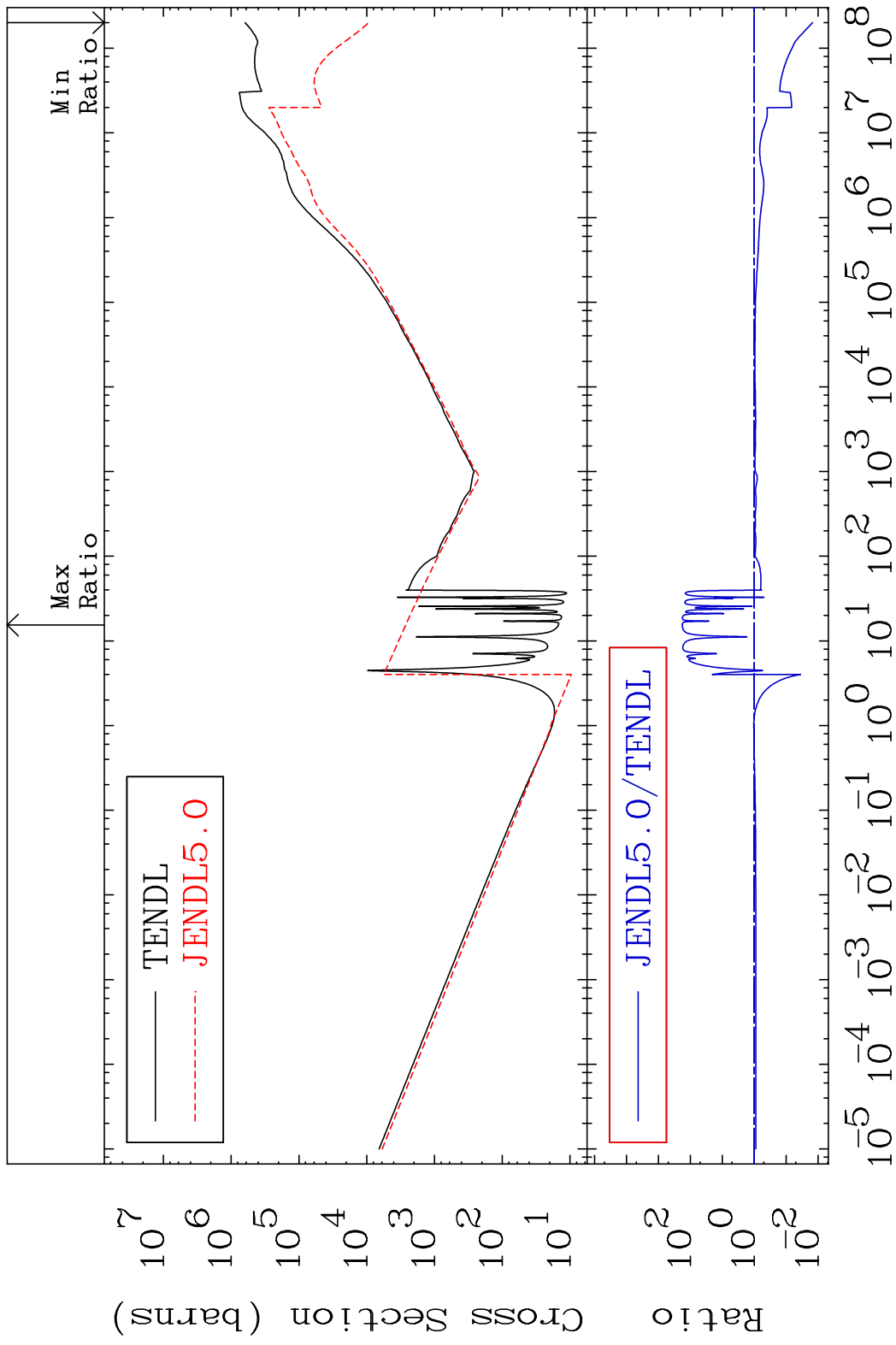


51 Incident Energy (eV) 58-Ce-137m

MAT 5829 Total kinematic kerma (high limit)58-Ce-137m
 Cross Section -98.76 To 693.8 %



MAT 5829 Dpa total (eV-barns) 58-Ce-137m
 Cross Section -98.50 To 9999. %



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

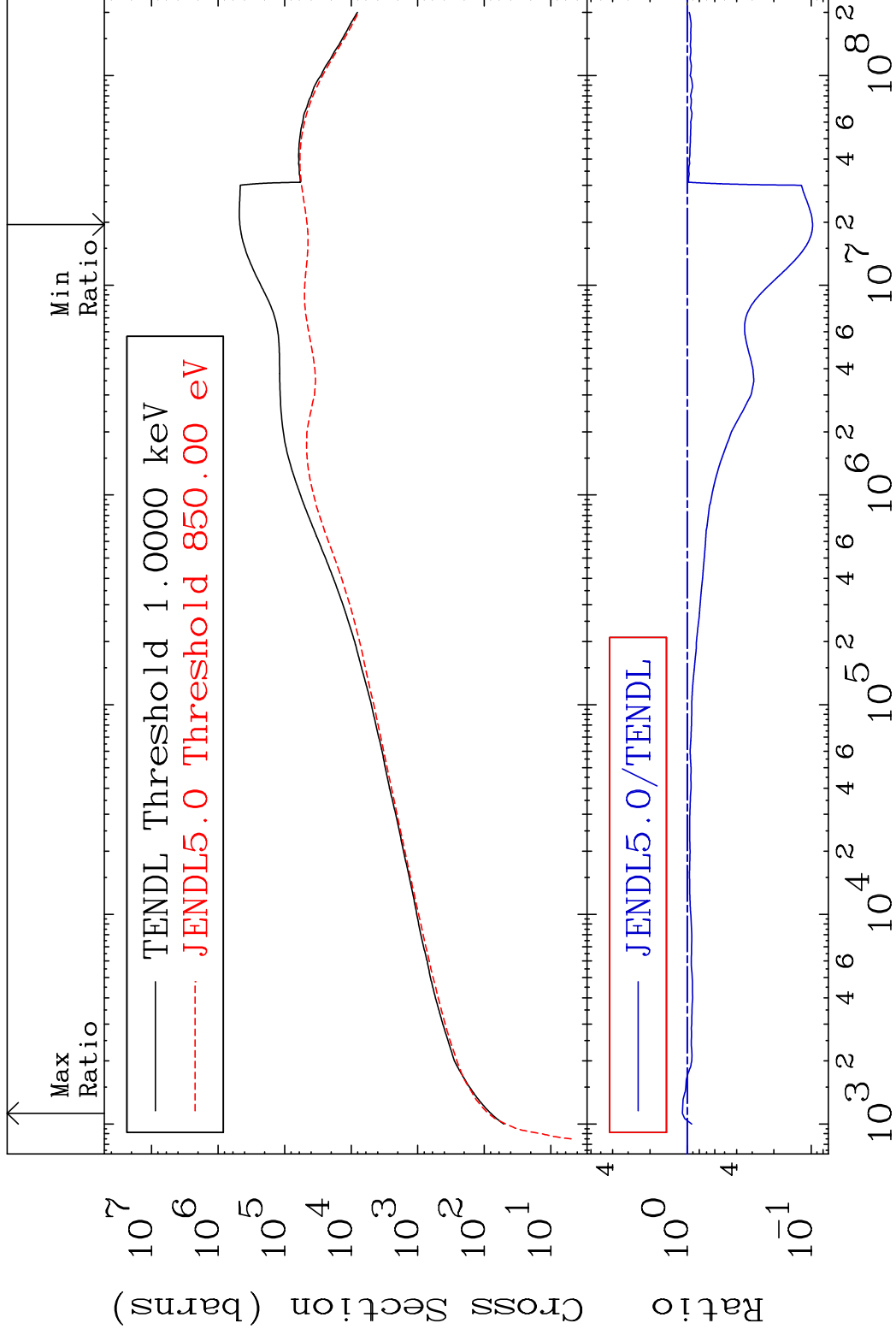
MAT 5829

Dpa elastic (mt2)

58-Ce-137m

Cross Section

-90.26 To 9.599 %

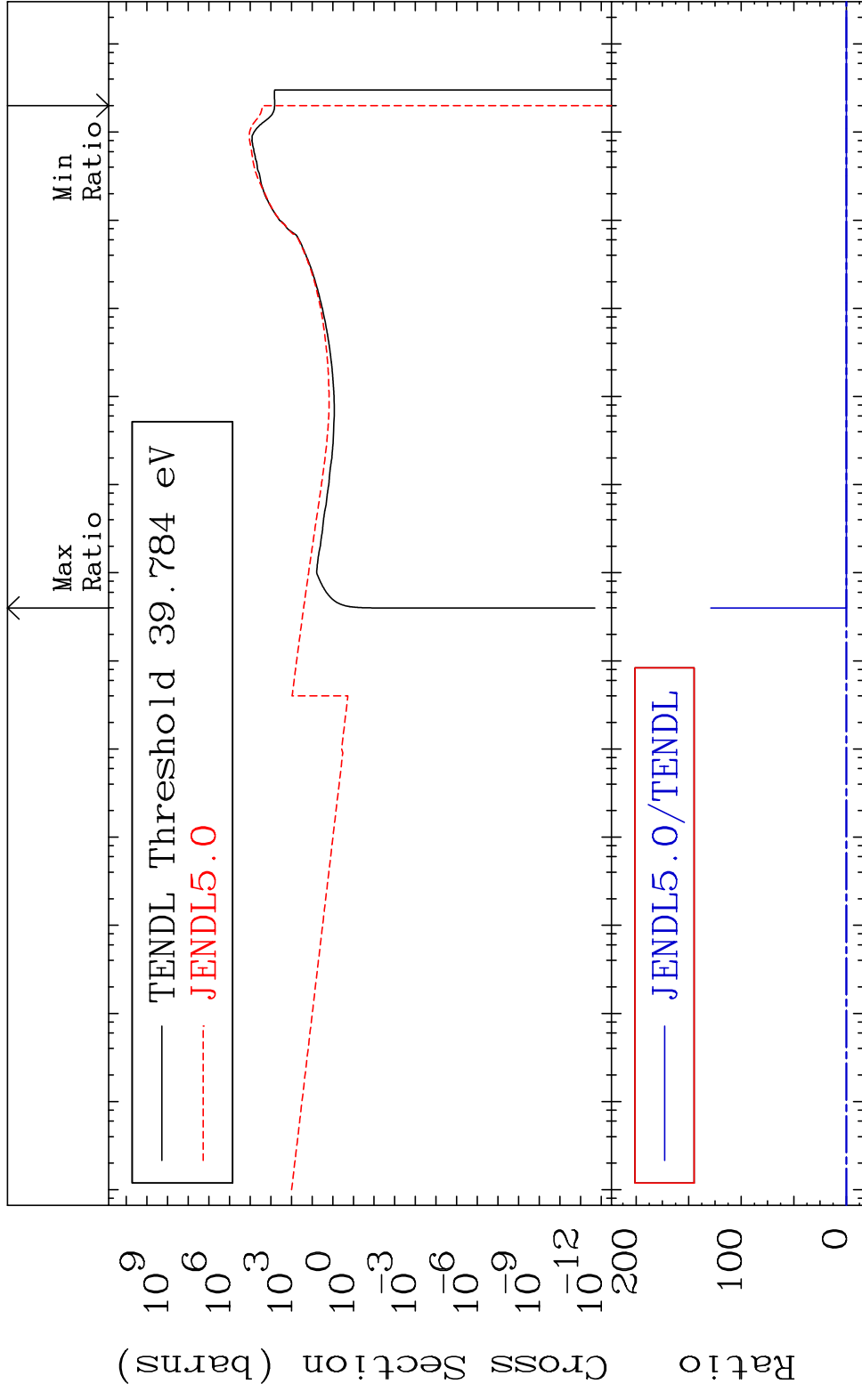


54

Incident Energy (eV)

58-Ce-137m

MAT 5829 Dpa inelastic (mt51-91) 58-Ce-137m
 Cross Section -100.0 To 9999. %

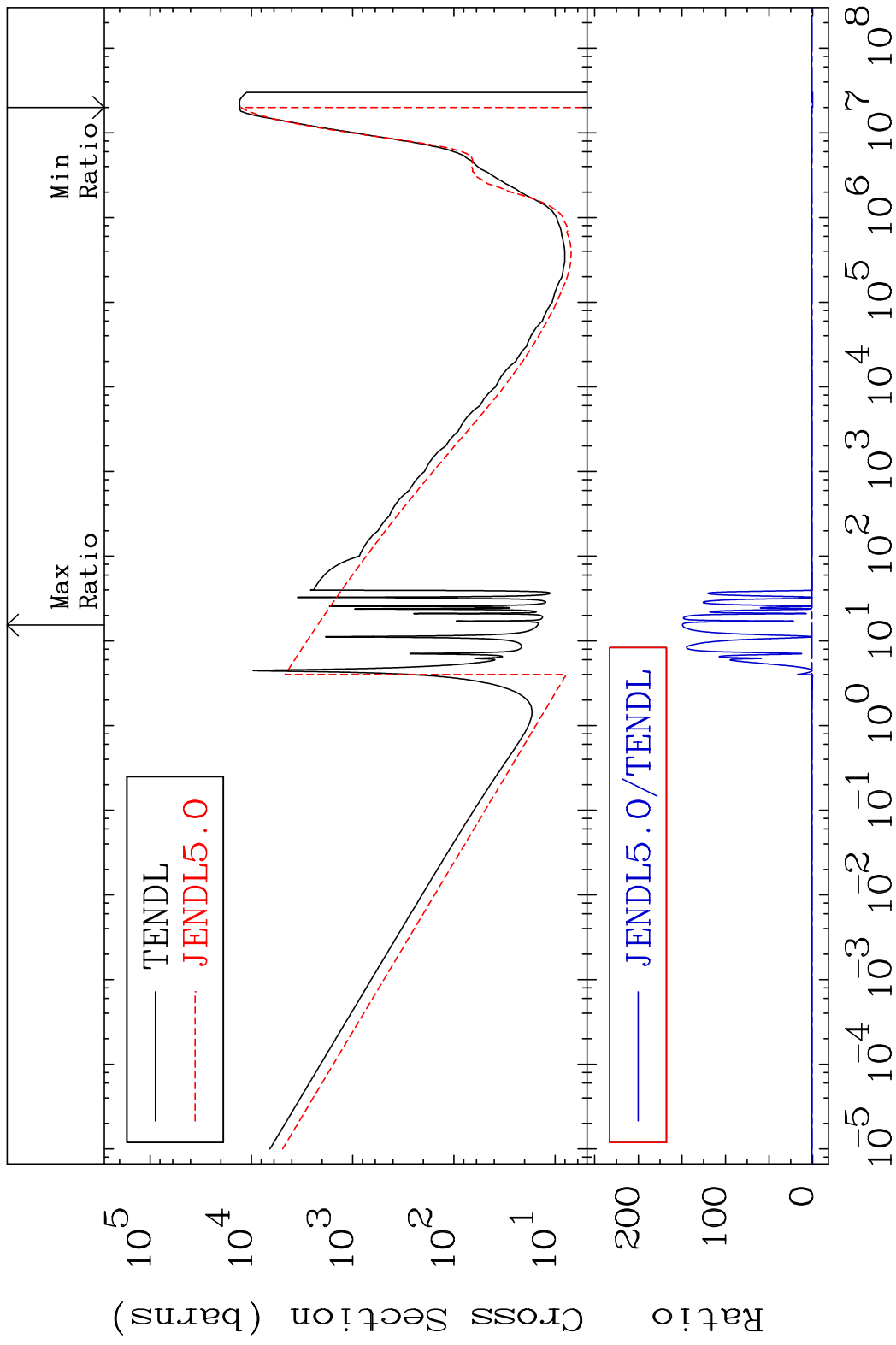


10⁹ 10⁶ 10³ 10⁰ 10⁻³ 10⁻⁶ 10⁻⁹ 10⁻¹² 200 100 0

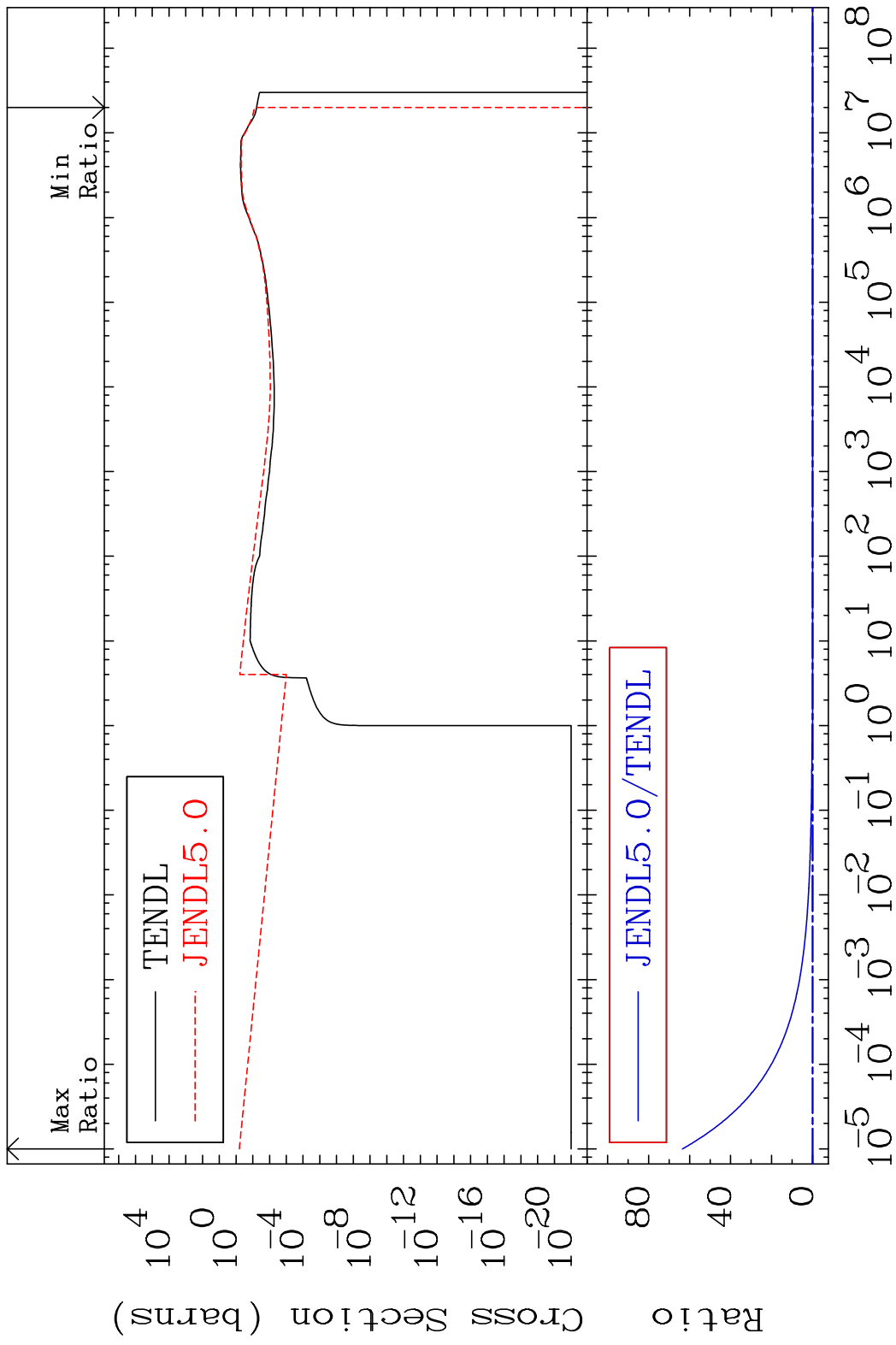
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

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

MAT 5829 Dpa disappearance (mt102 -120) 58-Ce-137m
 Cross Section -100.0 To 9999. %

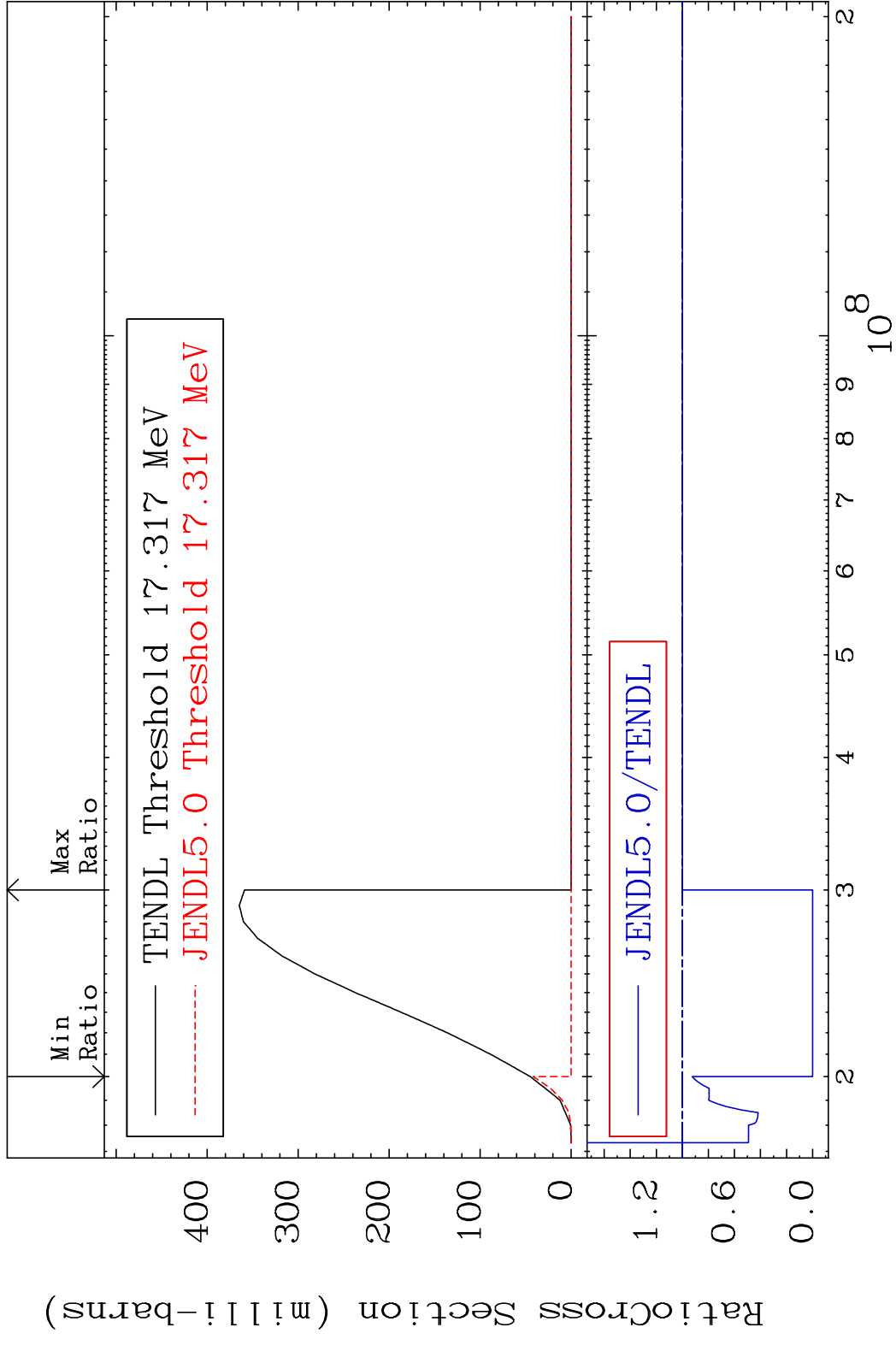


MAT 5829 Inelastic:58-Ce-137g 58-Ce-137m
 Radionuclide Production Cross Section Ratio 9999. %

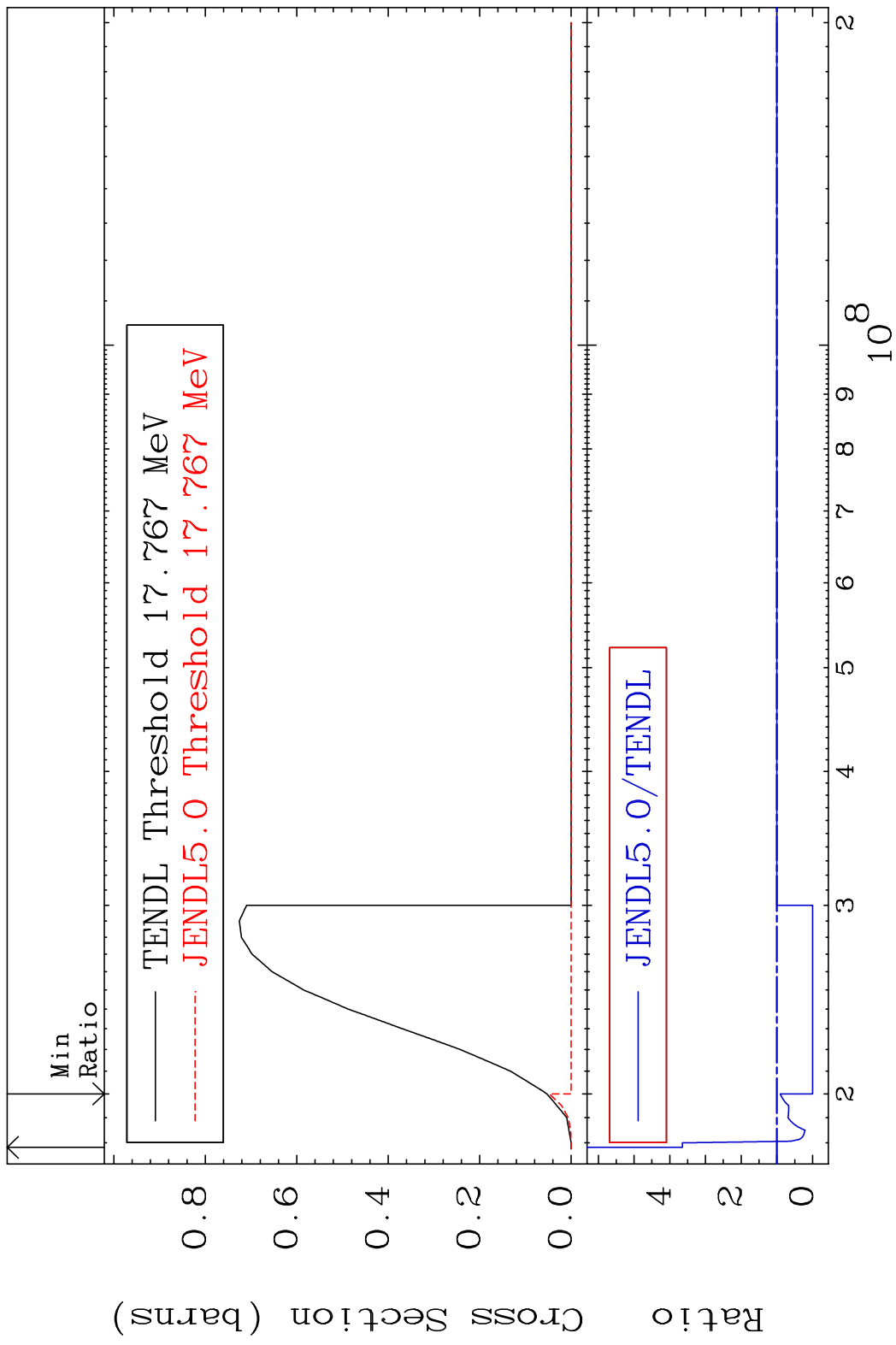


57 Incident Energy (eV) 58-Ce-137m

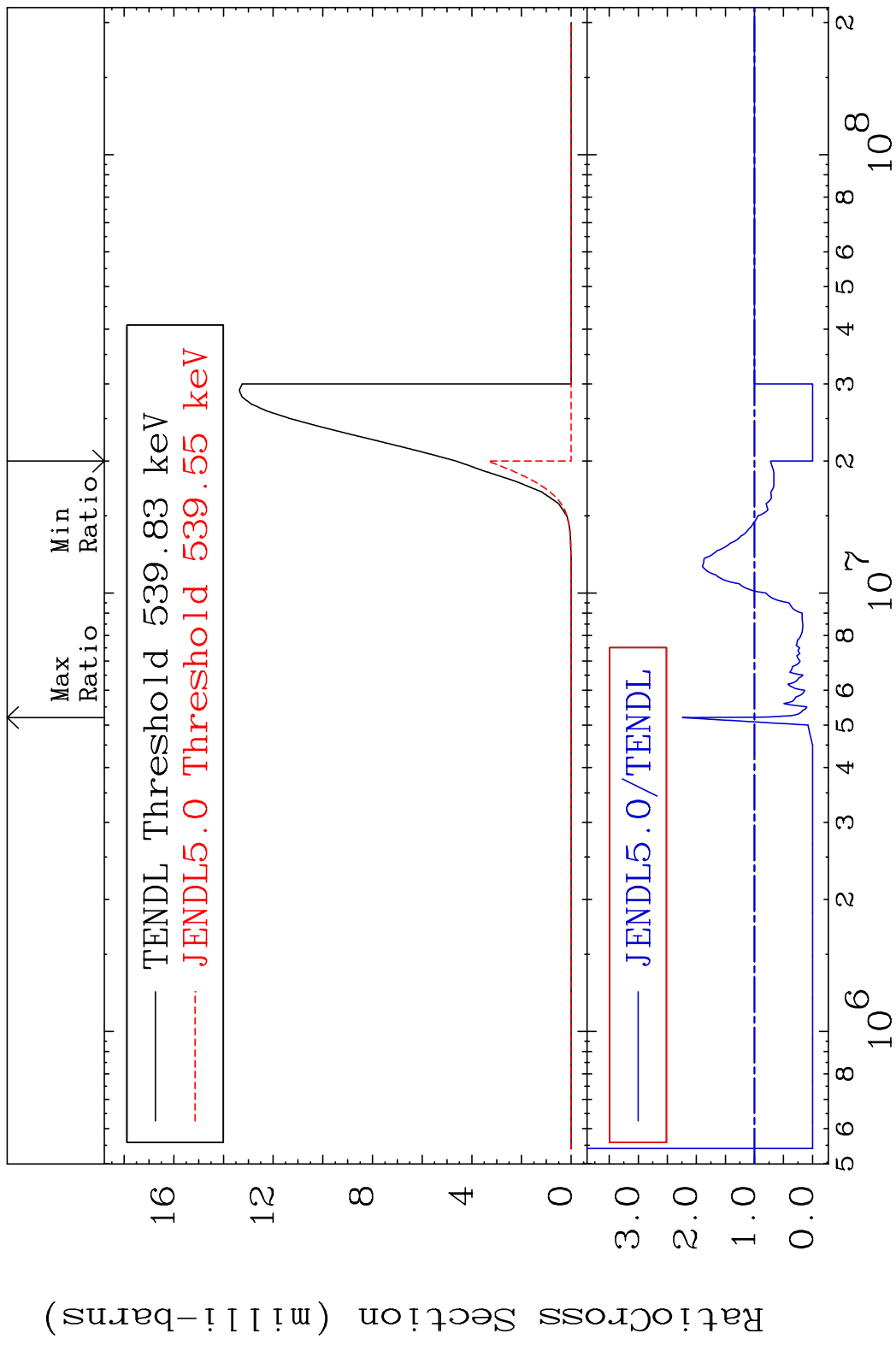
MAT 5829 (n,3n):58-Ce-135g 58-Ce-137m
 Radionuclide Production Cross Section 180.000 dth 0.000 %



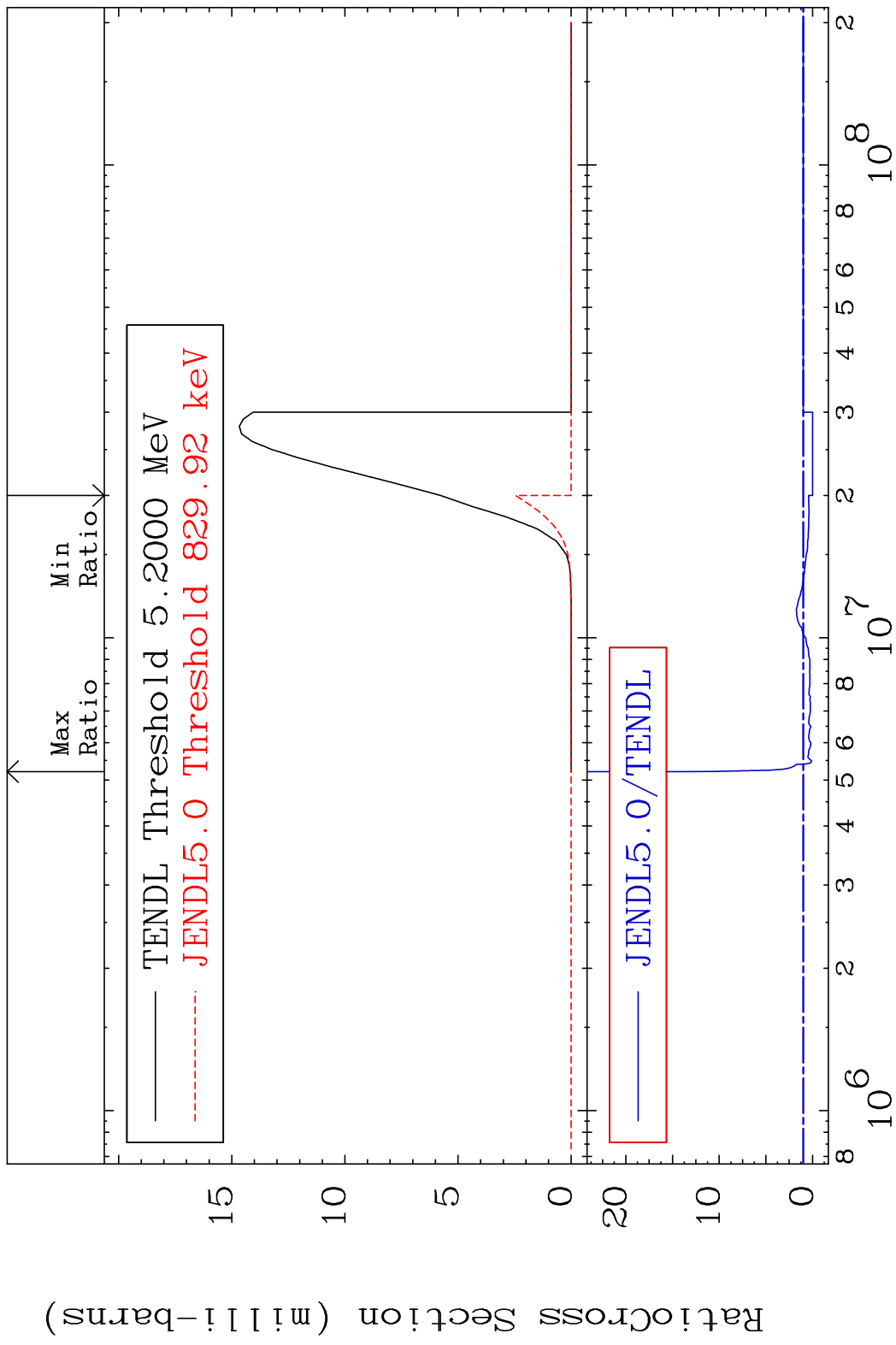
MAT 5829 (n, 3n):58-Ce-135m4 58-Ce-137m
 Radionuclide Production Cross Section 180.01 dth 264.7 %

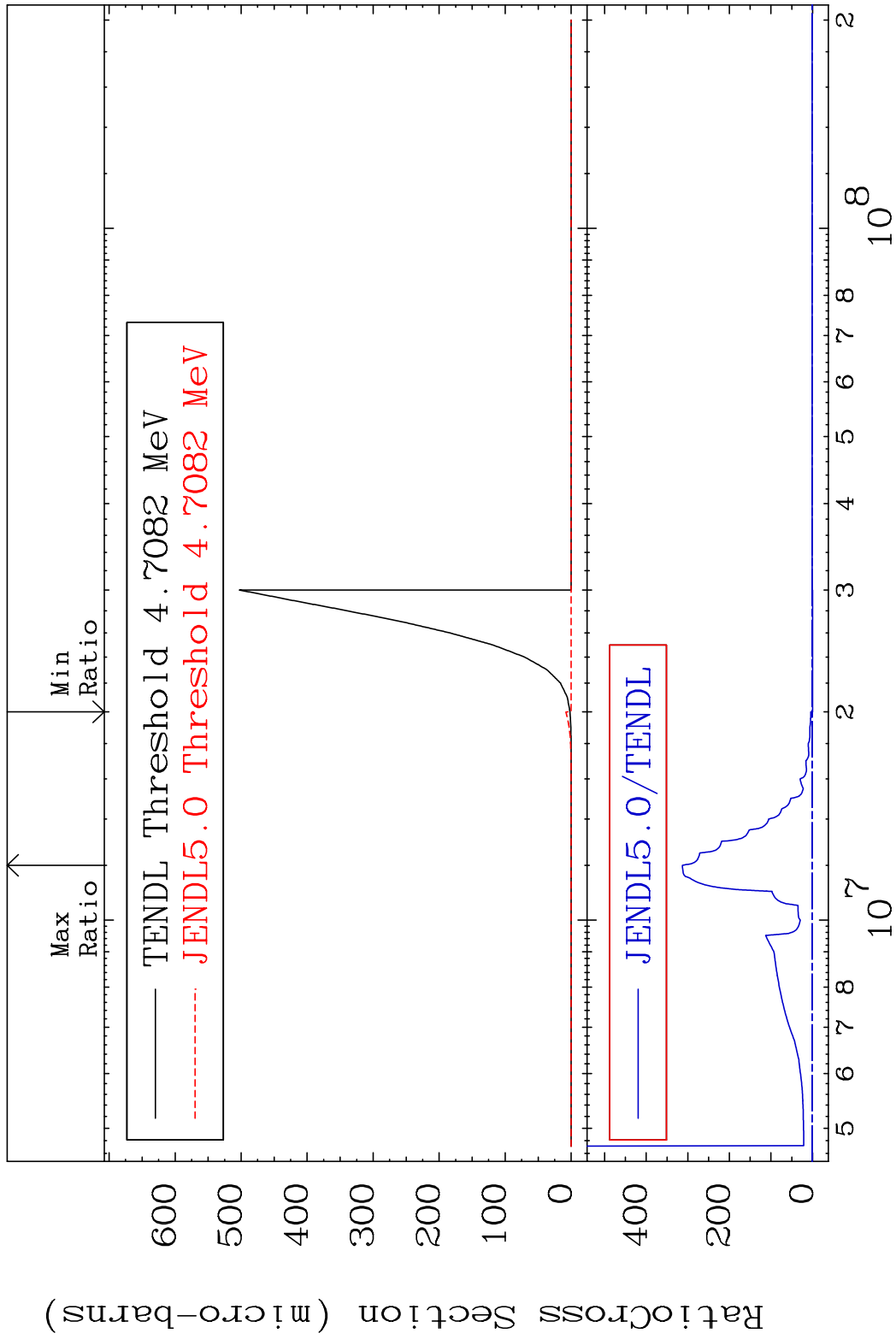


MAT 5829 (n, n') α :56-Ba-133g 58-Ce-137m
 Radionuclide Production Cross Section 124.1 %

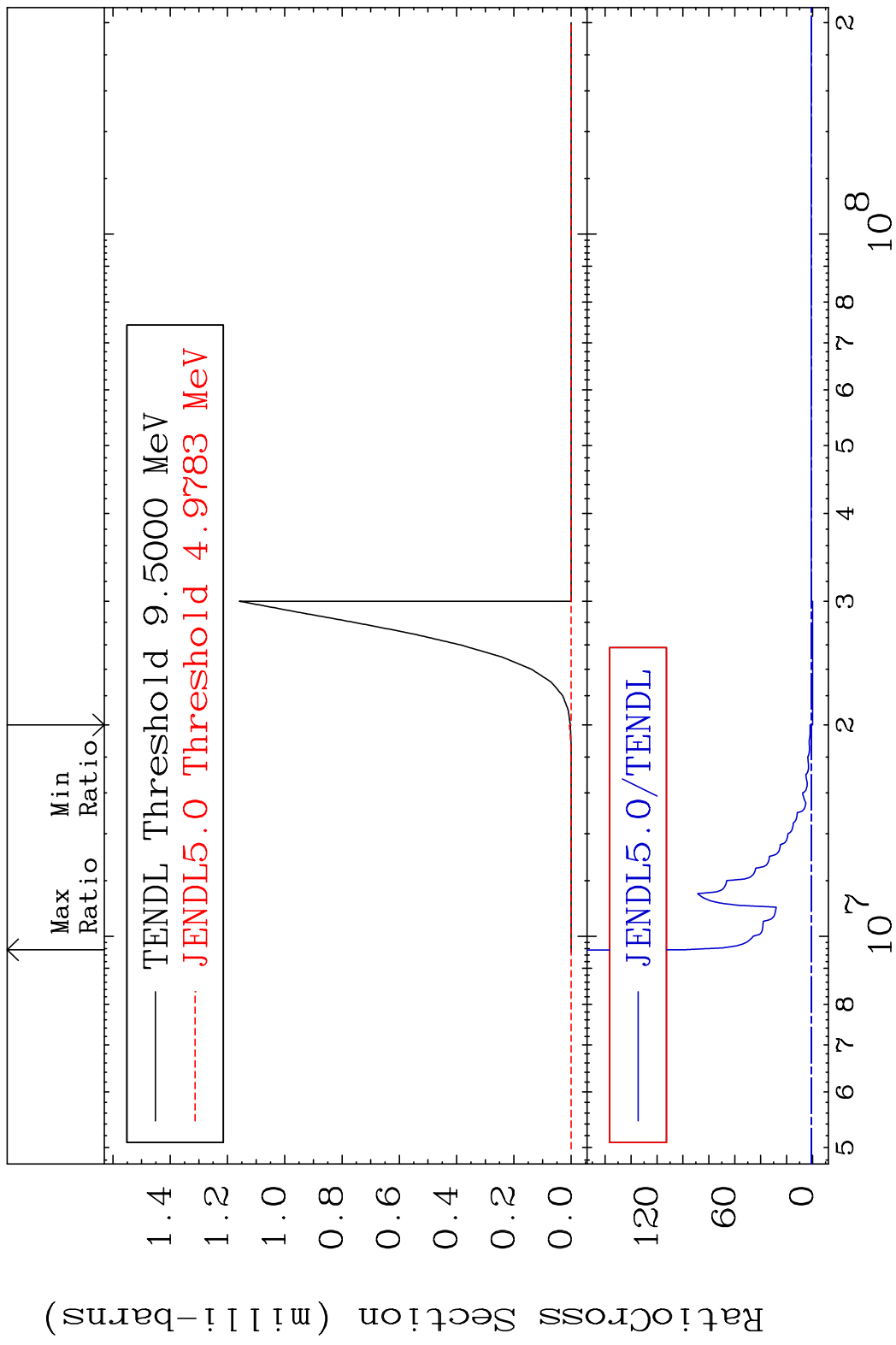


MAT 5829 (n, n') α :56-Ba-133m2 58-Ce-137m
 Radionuclide Production Cross Section to 1295. %



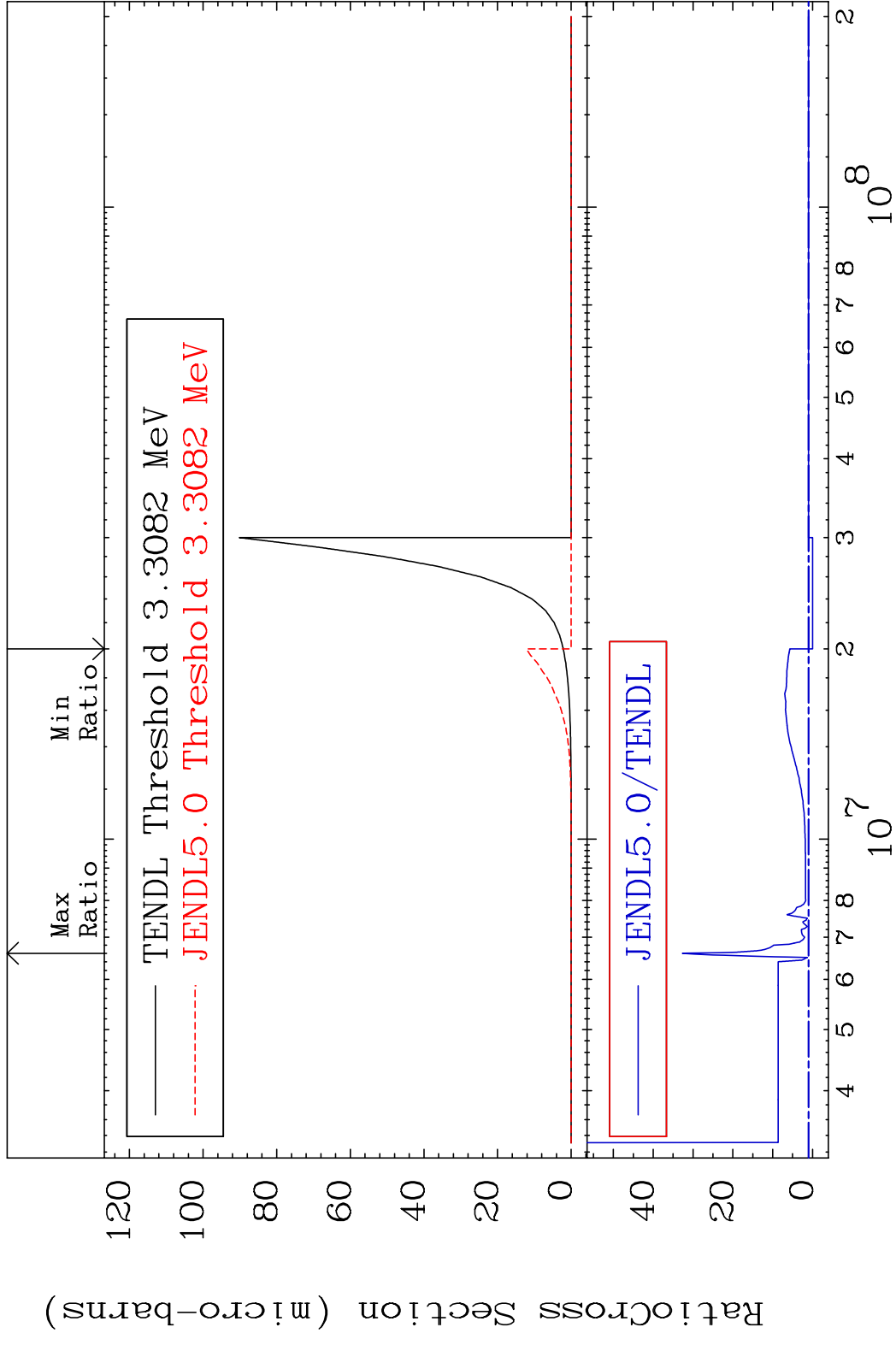


MAT 5829 (n, He-3) :56-Ba-135m2 58-Ce-137m
 Radionuclide Production Cross Section to 9946. %



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

MAT 5829 (n,2p):56-Ba-136g 58-Ce-137m
 Radionuclide Production Cross Section 18000 dth 3168. %



MAT 5829 (n, 2p):56-Ba-136m5 58-Ce-137m
 Radionuclide Production Cross Section 180.0 dth 141.0 %

