

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

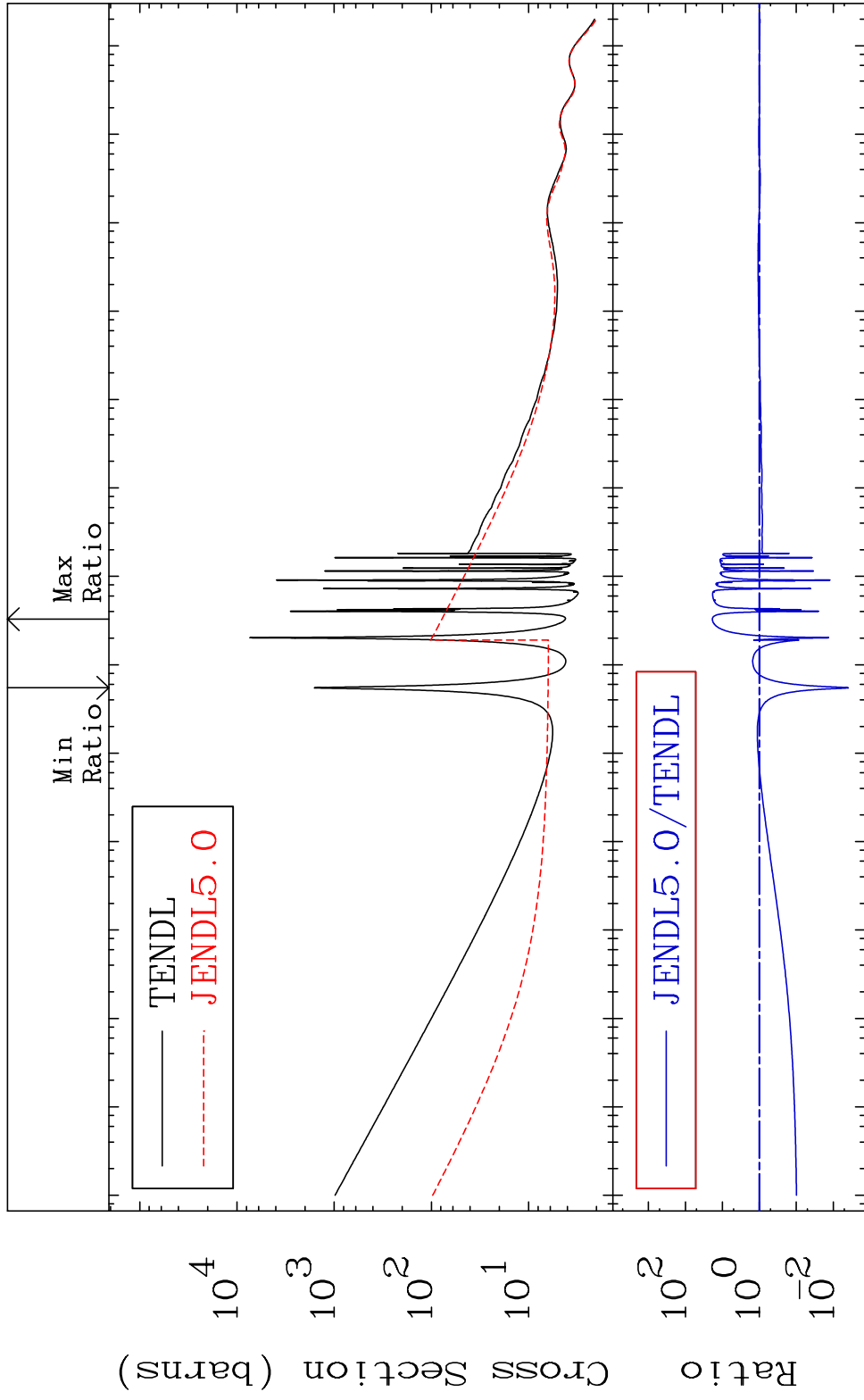
Press Mouse Button to Start

MAT 5441

54-Xe-129m

Total

Cross Section -99.61 To 1764. %



1

Incident Energy (eV)

54-Xe-129m

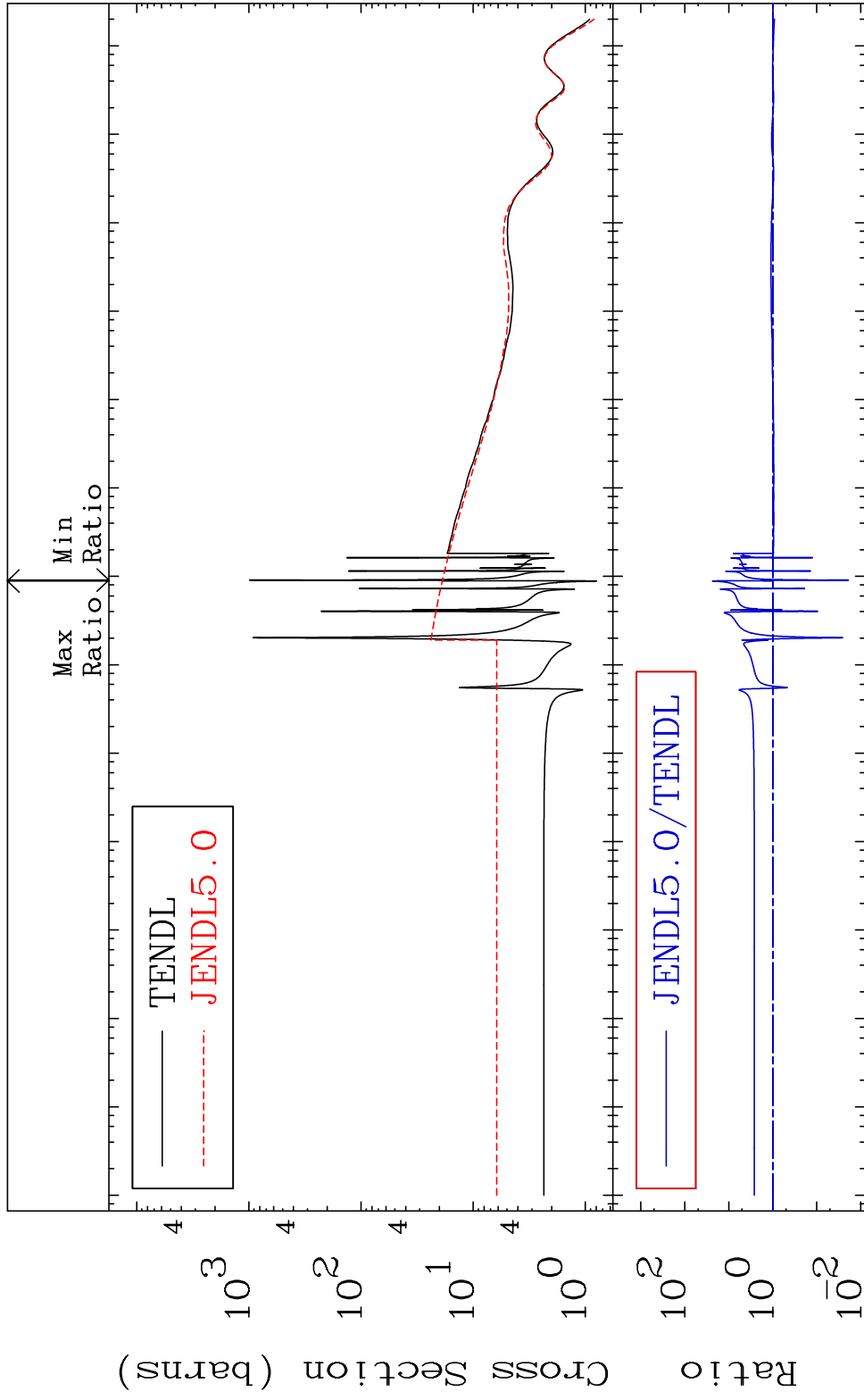
MAT 5441

Elastic

54-Xe-129m

Cross Section

-98.08 To 2262. %



2

Incident Energy (eV)

54-Xe-129m

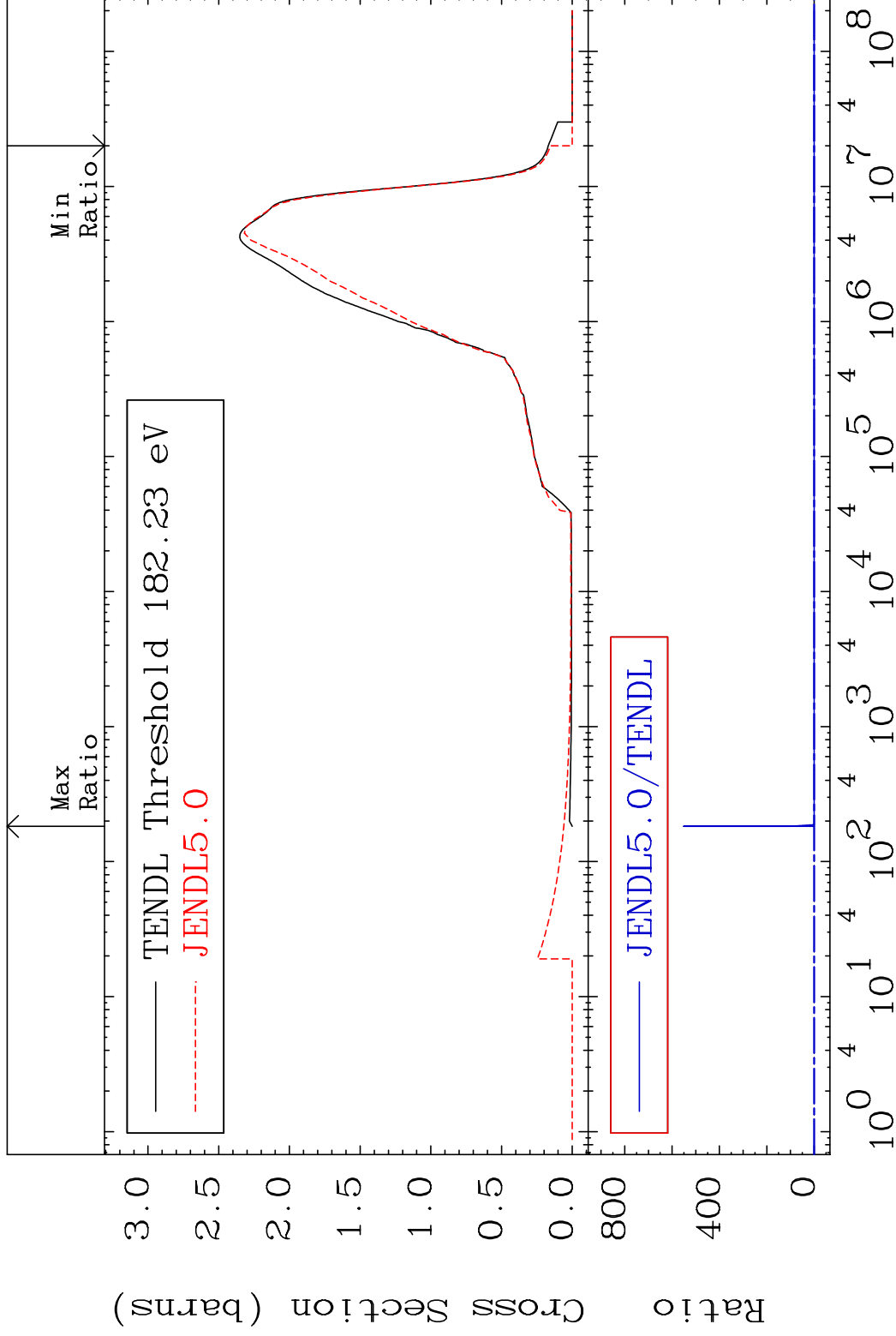
MAT 5441

Inelastic

54-Xe-129m

Cross Section

-100.0 To 9999. %



3

Incident Energy (eV)

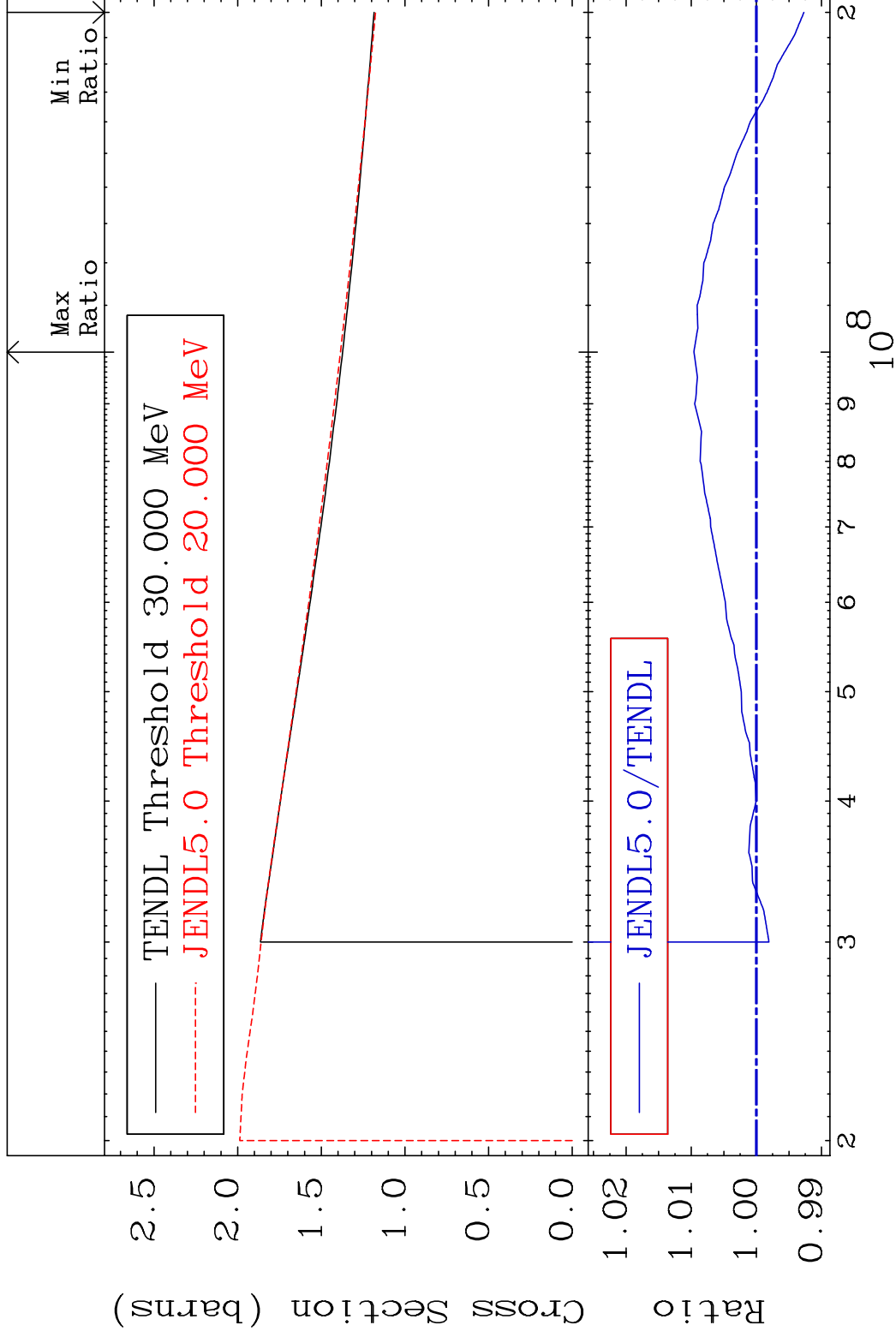
54-Xe-129m

MAT 5441

(n, remainder)

54-Xe-129m

Cross Section -0.729 To 0.960 %



4

Incident Energy (eV)

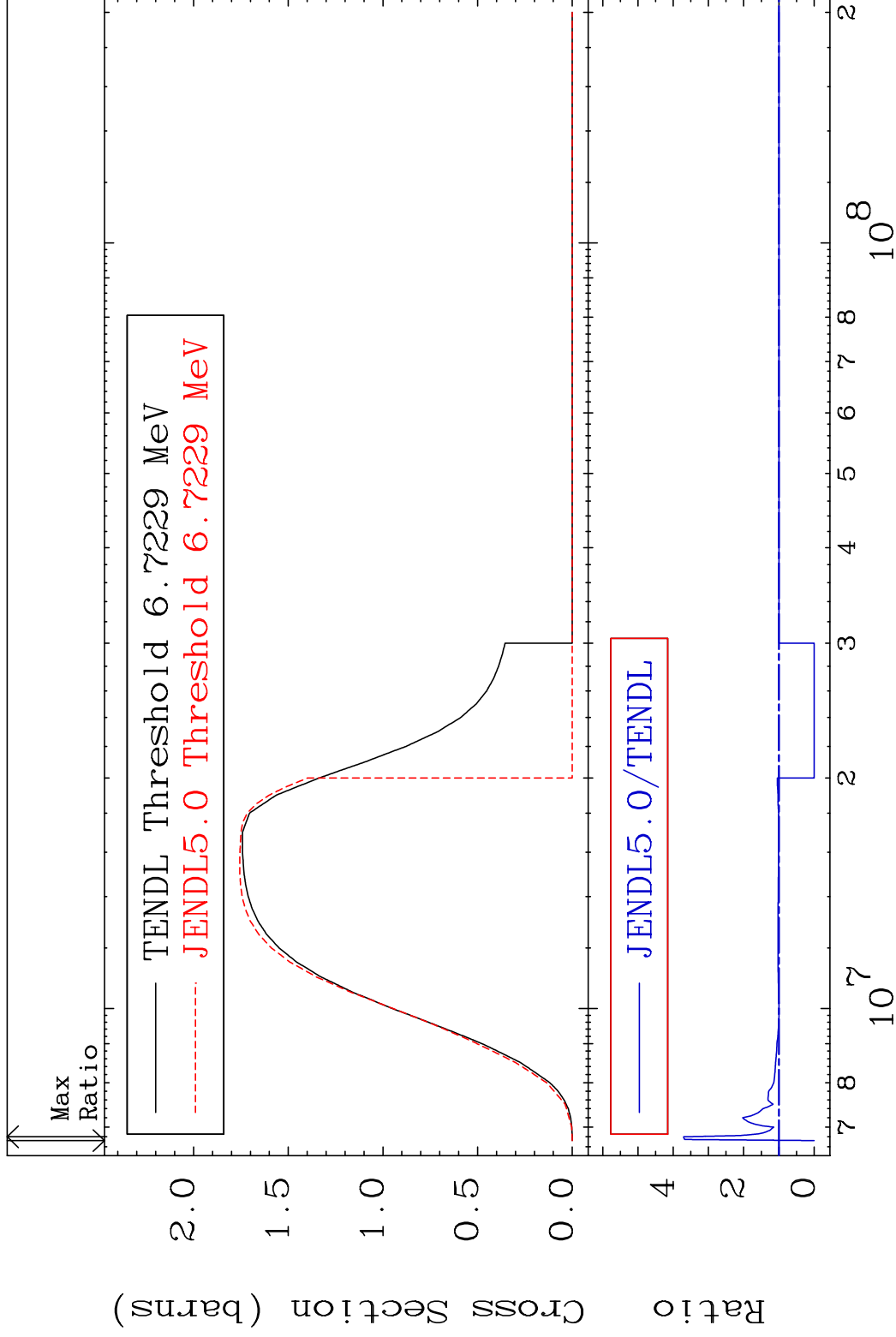
54-Xe-129m

MAT 5441

(n,2n)

54-Xe-129m

Cross Section -100.0 To 270.4 %



5

Incident Energy (eV)

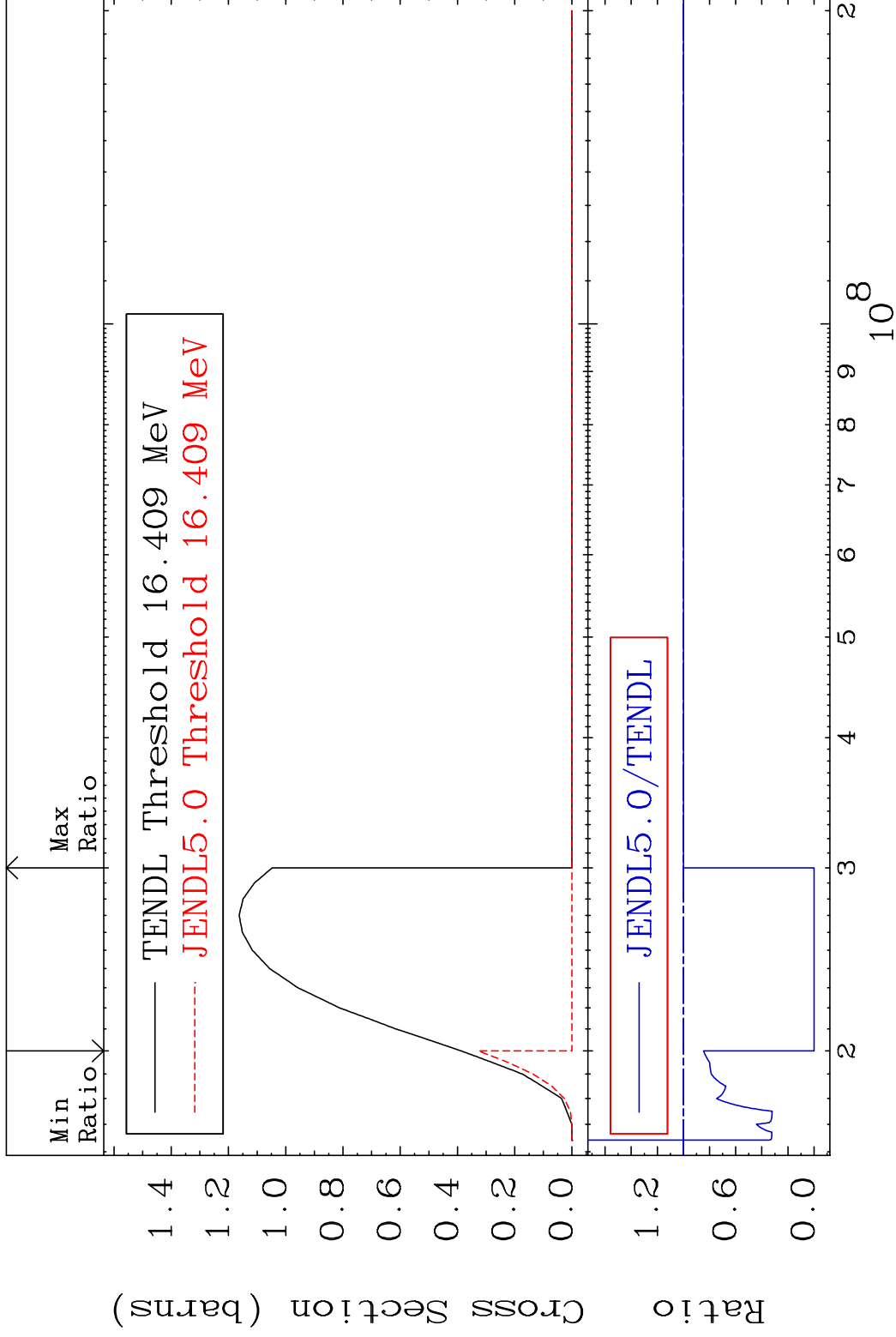
54-Xe-129m

MAT 5441

(n,3n)

54-Xe-129m

Cross Section -100.0 To 0.000 %



6

Incident Energy (eV)

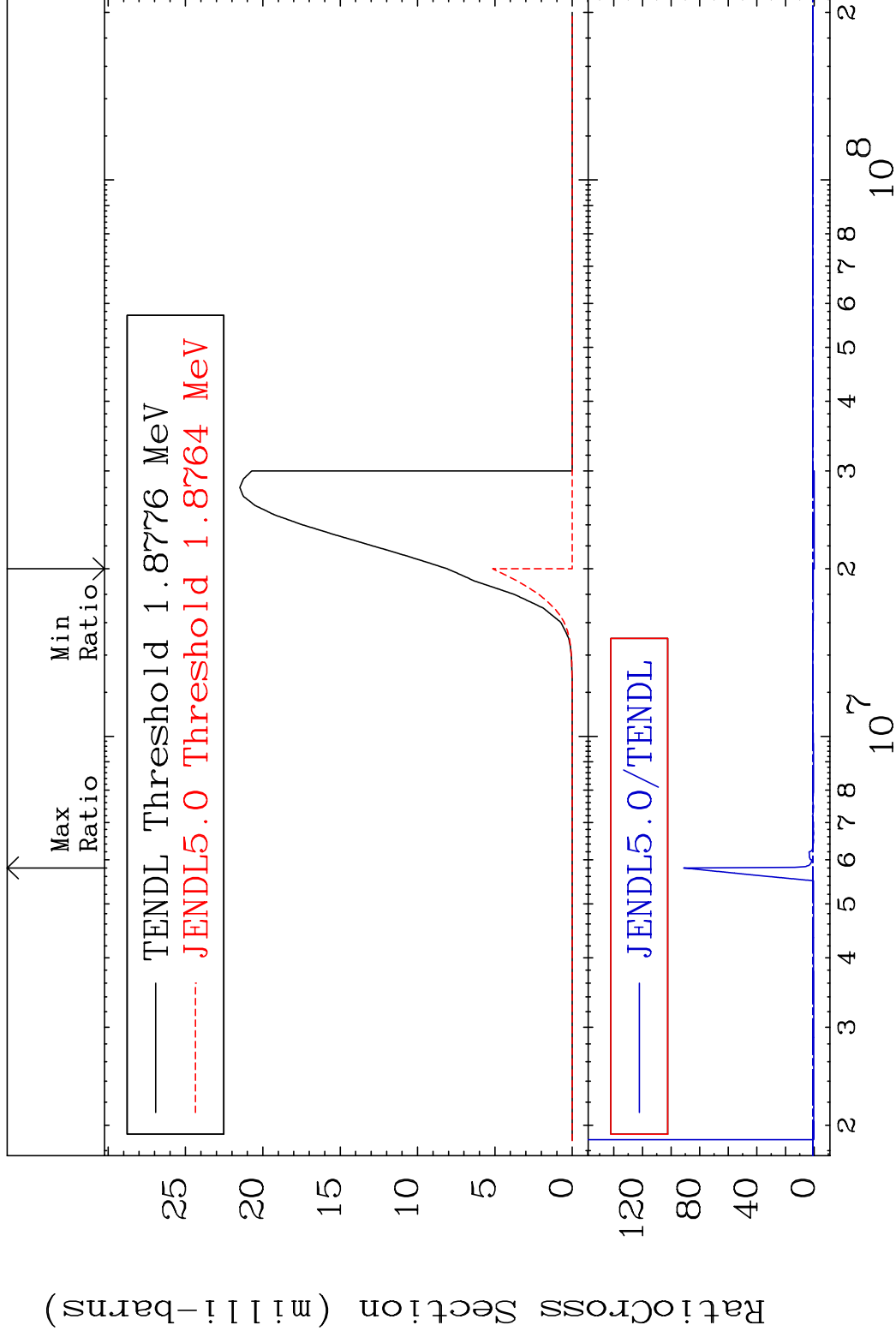
54-Xe-129m

MAT 5441

(n, n') α

54-Xe-129m

Cross Section -100.0 To 9021. %



7

Incident Energy (eV)

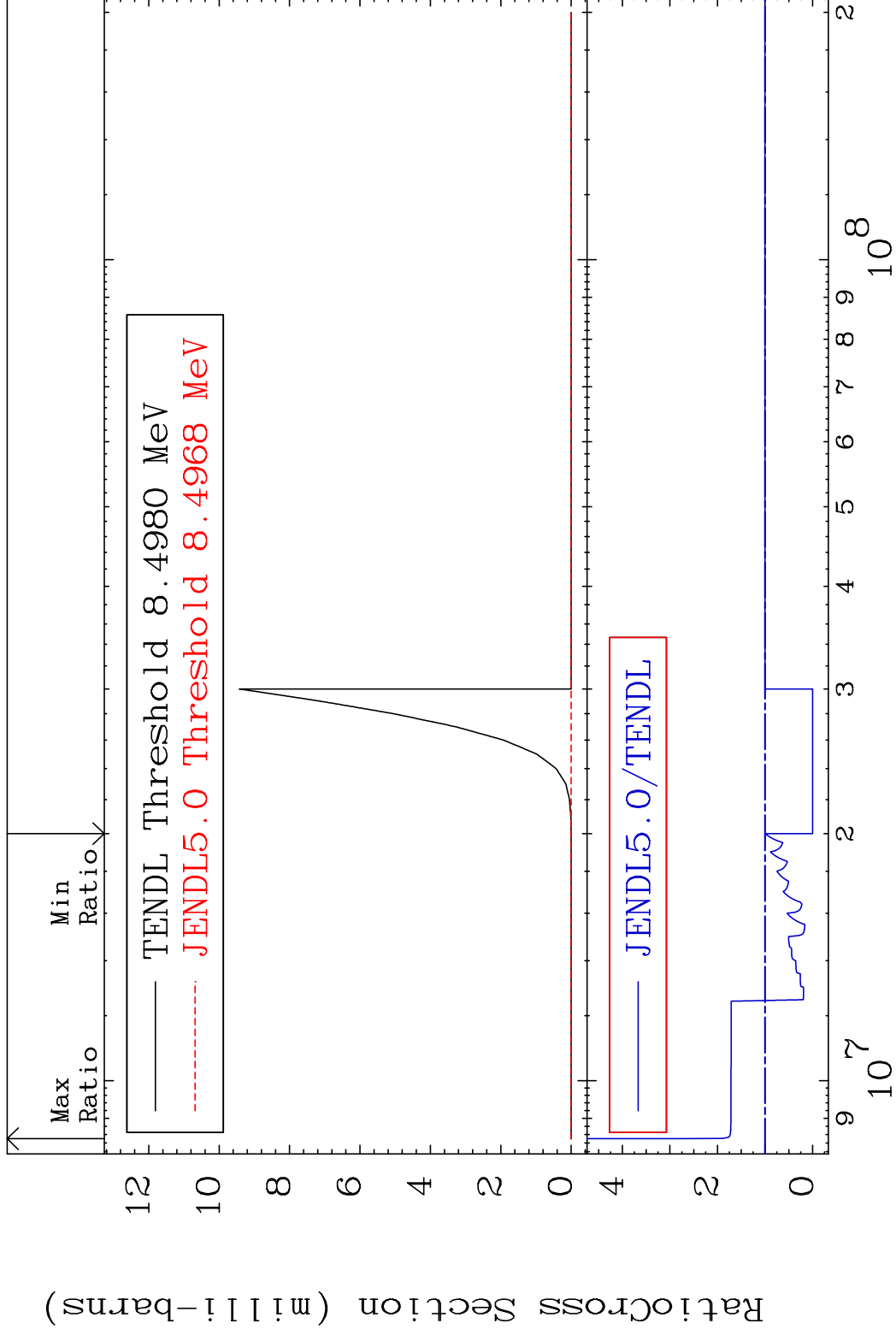
54-Xe-129m

MAT 5441

(n,2n) α

54-Xe-129m

Cross Section -100.0 To 173.9 %



8

Incident Energy (eV)

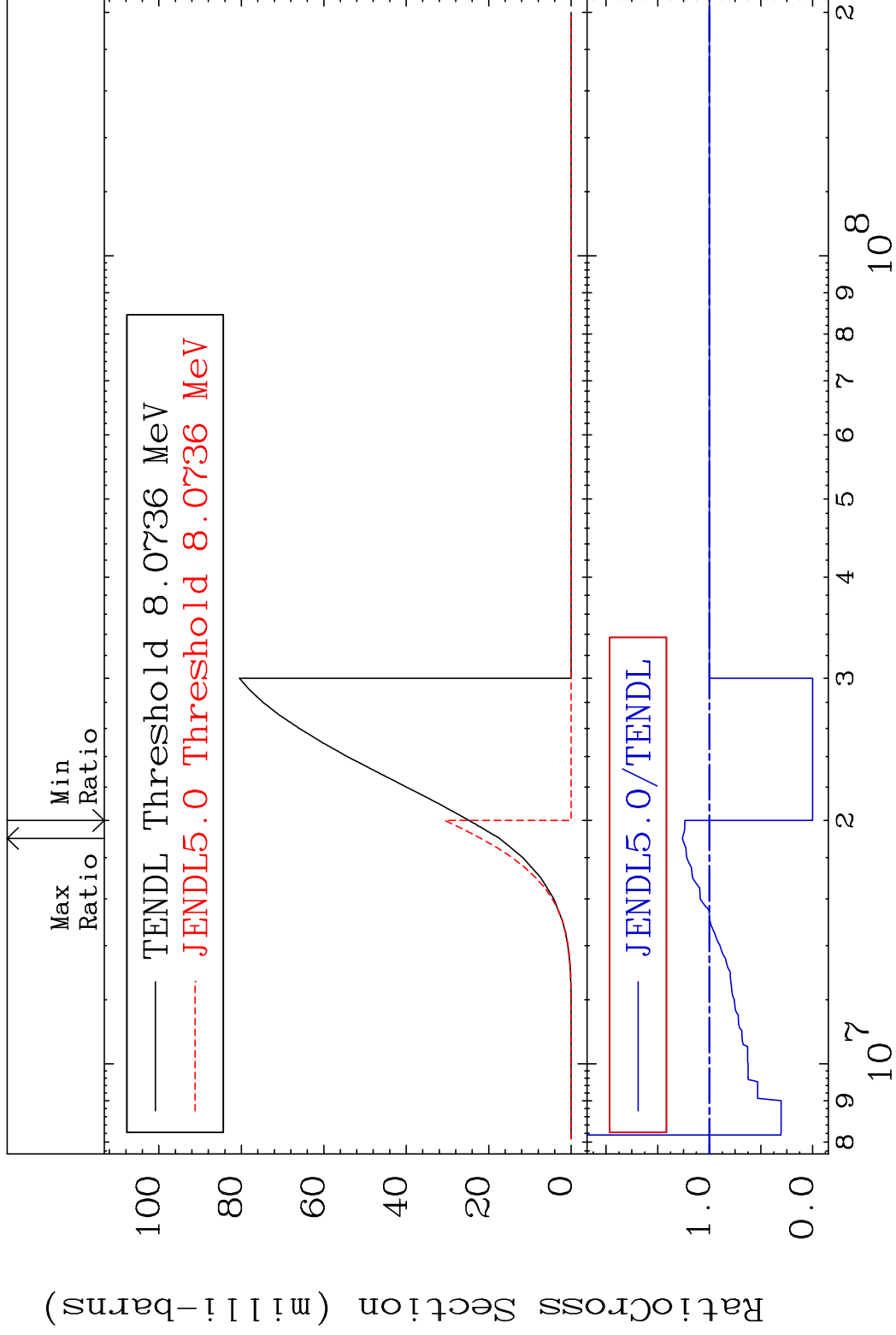
54-Xe-129m

MAT 5441

(n, n') p

54-Xe-129m

Cross Section -100.0 To 26.11 %



9

Incident Energy (eV)

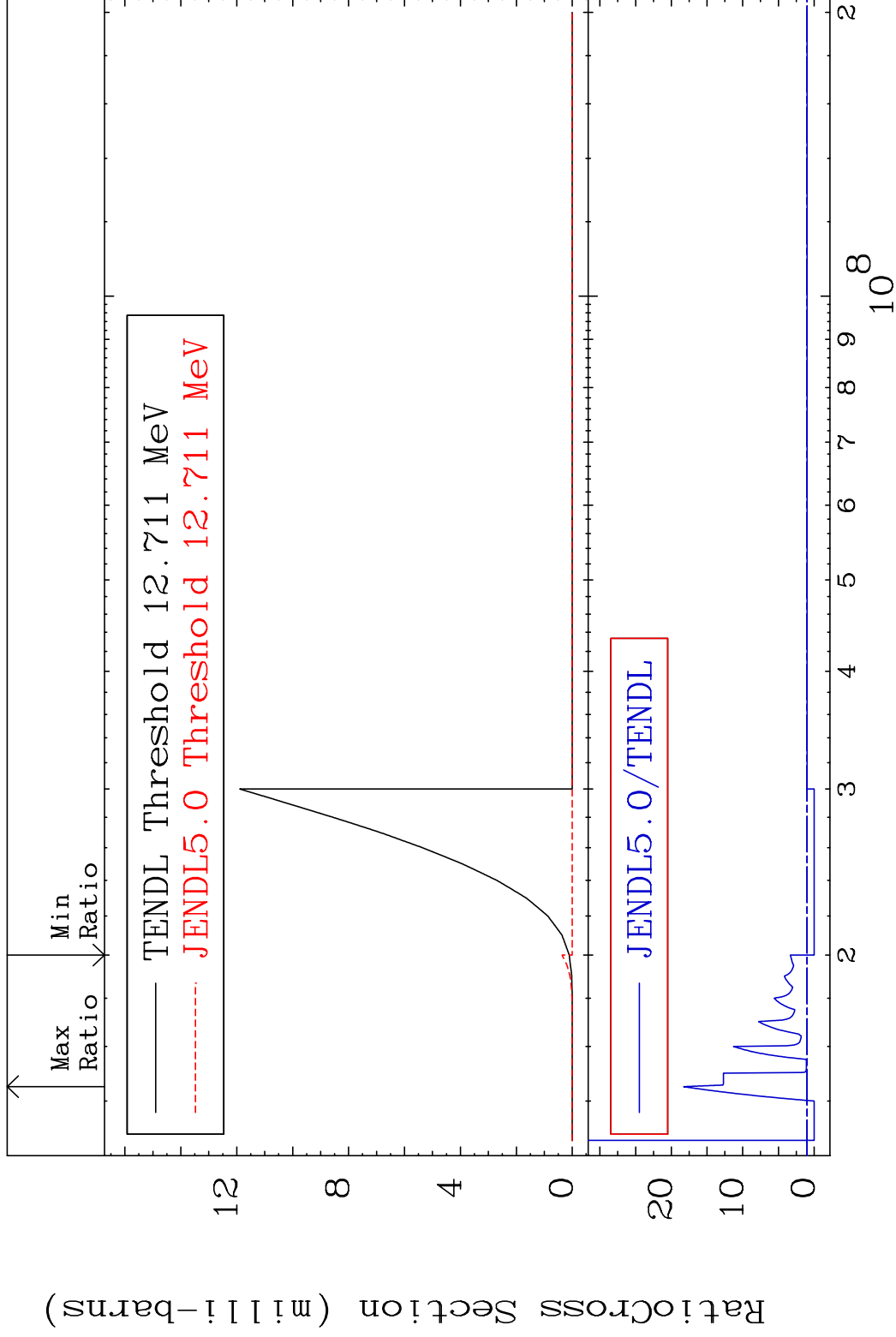
54-Xe-129m

MAT 5441

(n, n') d

54-Xe-129m

Cross Section -100.0 To 1727. %



10

Incident Energy (eV)

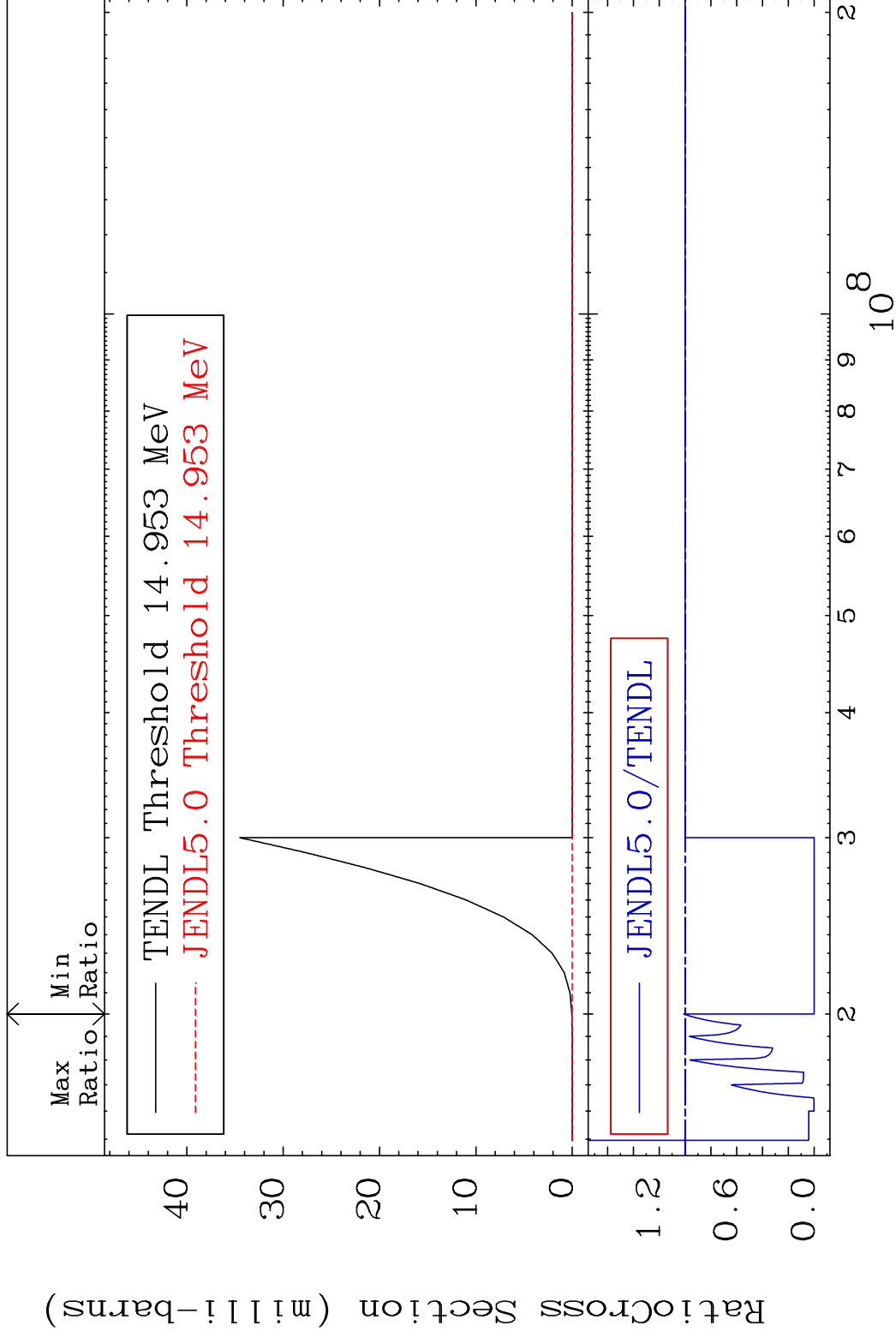
54-Xe-129m

MAT 5441

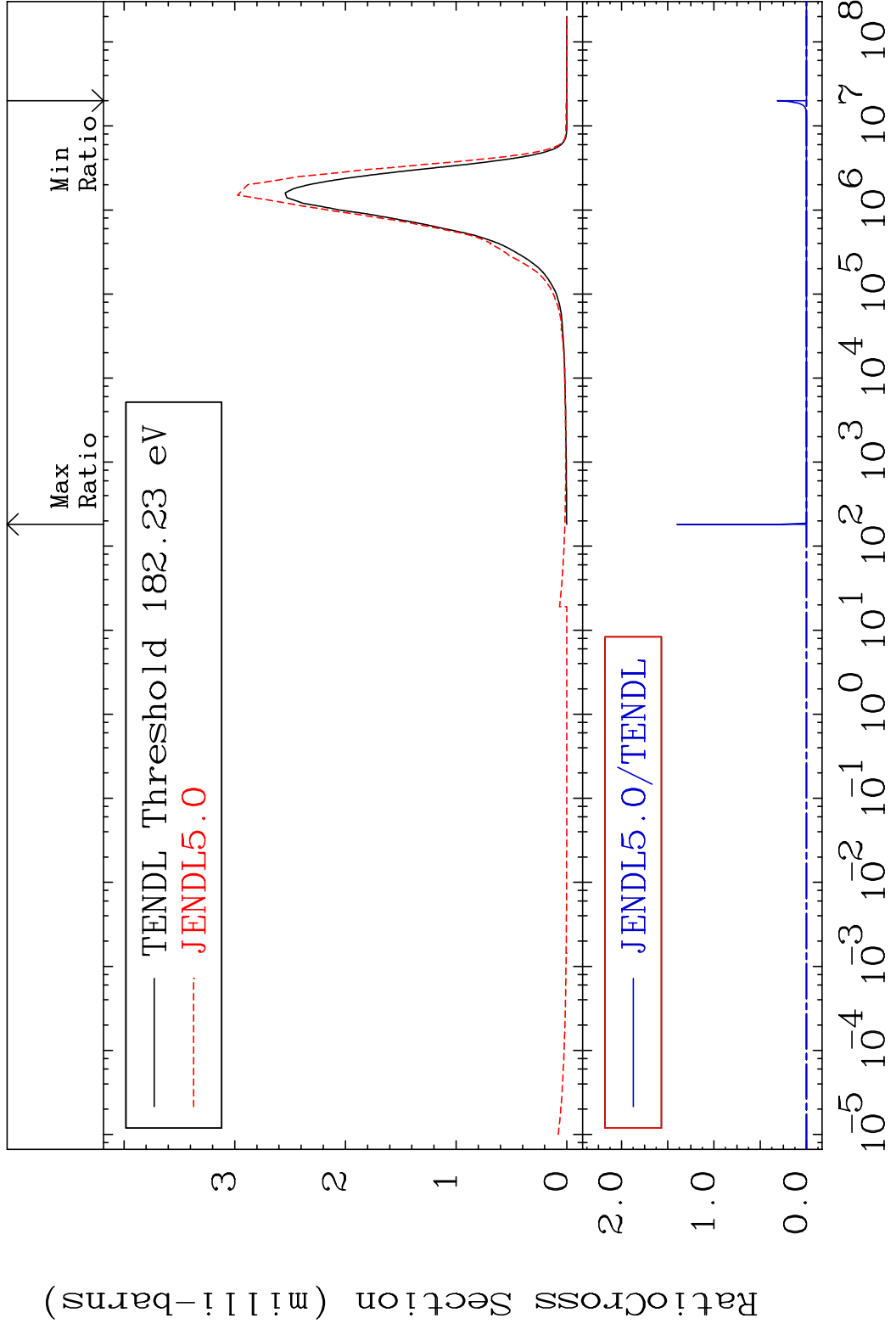
(n,2n) p

54-Xe-129m

Cross Section -100.0 To 1.071 %

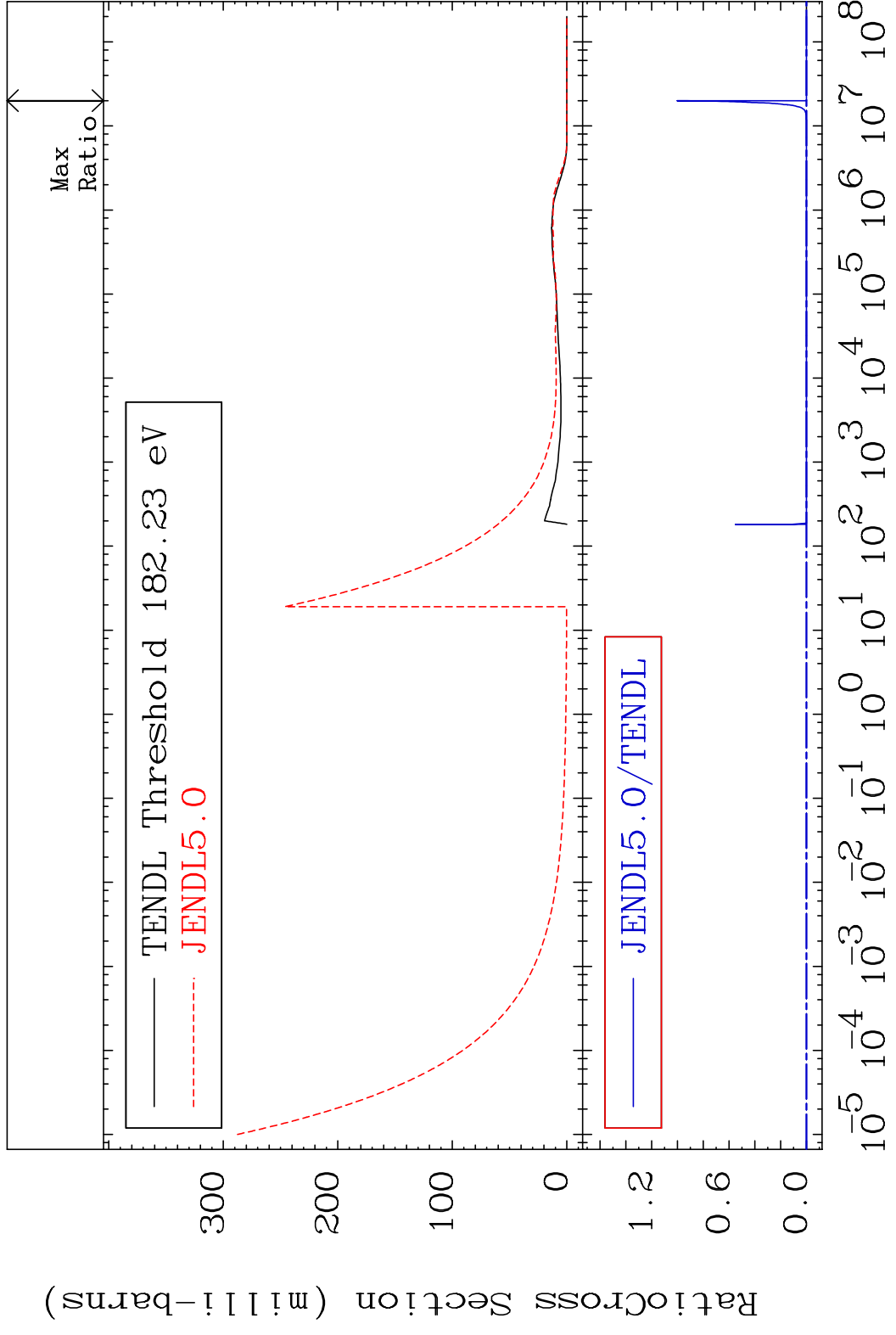


MAT 5441 MT= 51 (n, n') Level 54-Xe-129m
 Cross Section -100.0 To 9999. %



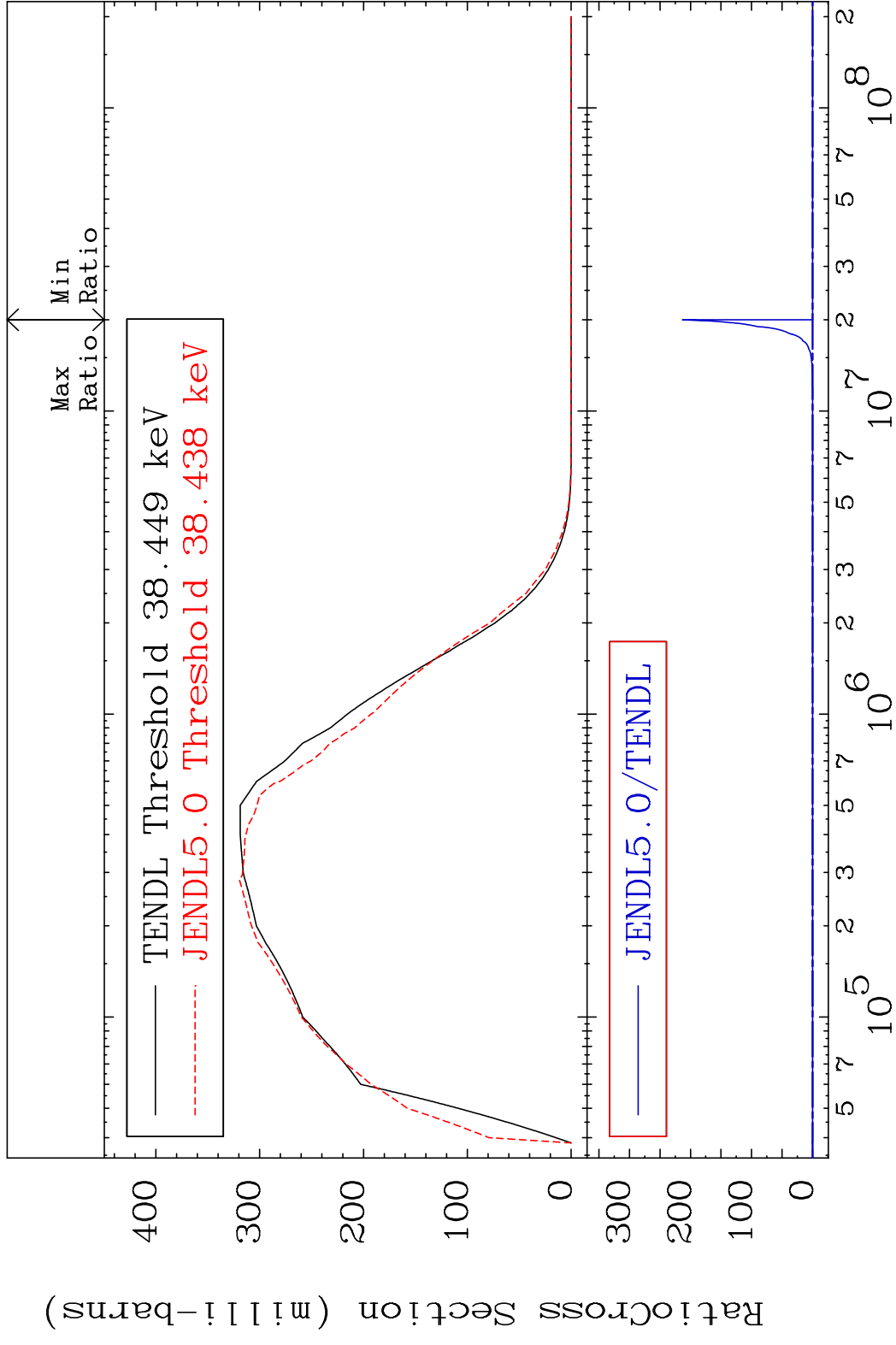
12 54-Xe-129m

MAT 5441 MT= 52 (n, n') Level 54-Xe-129m
 Cross Section -100.0 To 9999. %

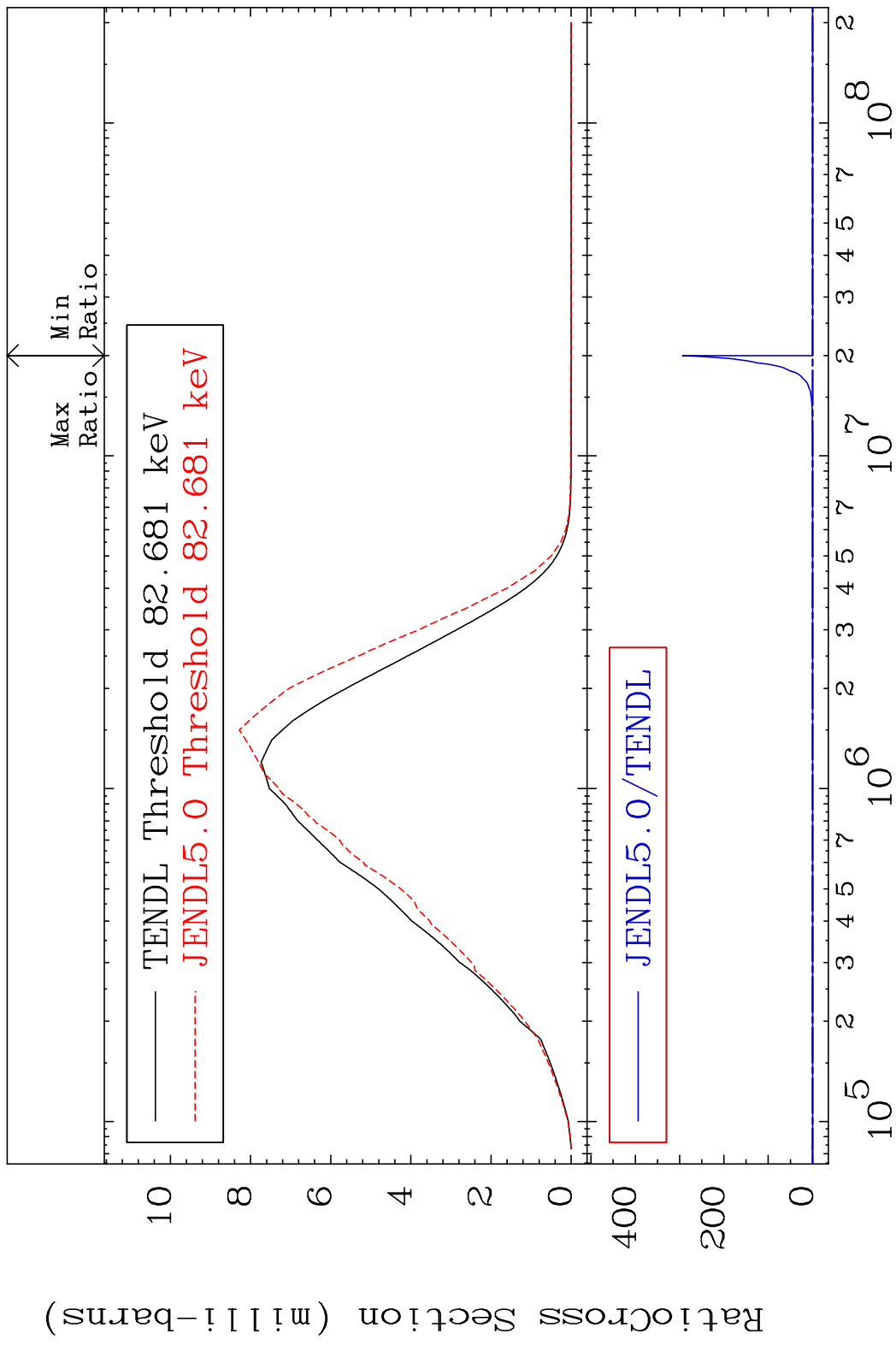


13 54-Xe-129m

MAT 5441 MT= 53 (n,n') Level 54-Xe-129m
 Cross Section -100.0 To 9999. %

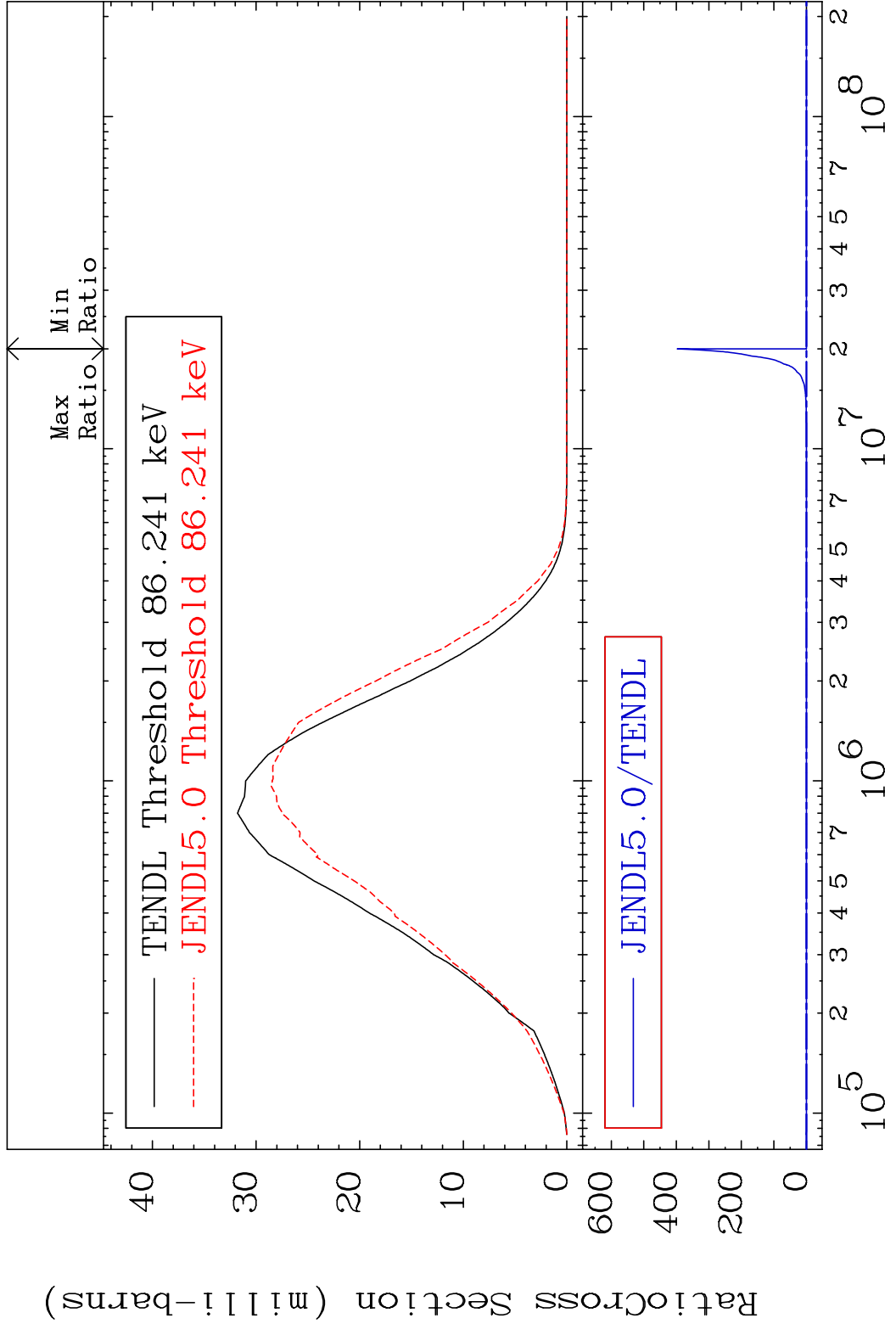


MAT 5441 MT= 54 (n,n') Level 54-Xe-129m
 Cross Section -100.0 To 9999. %



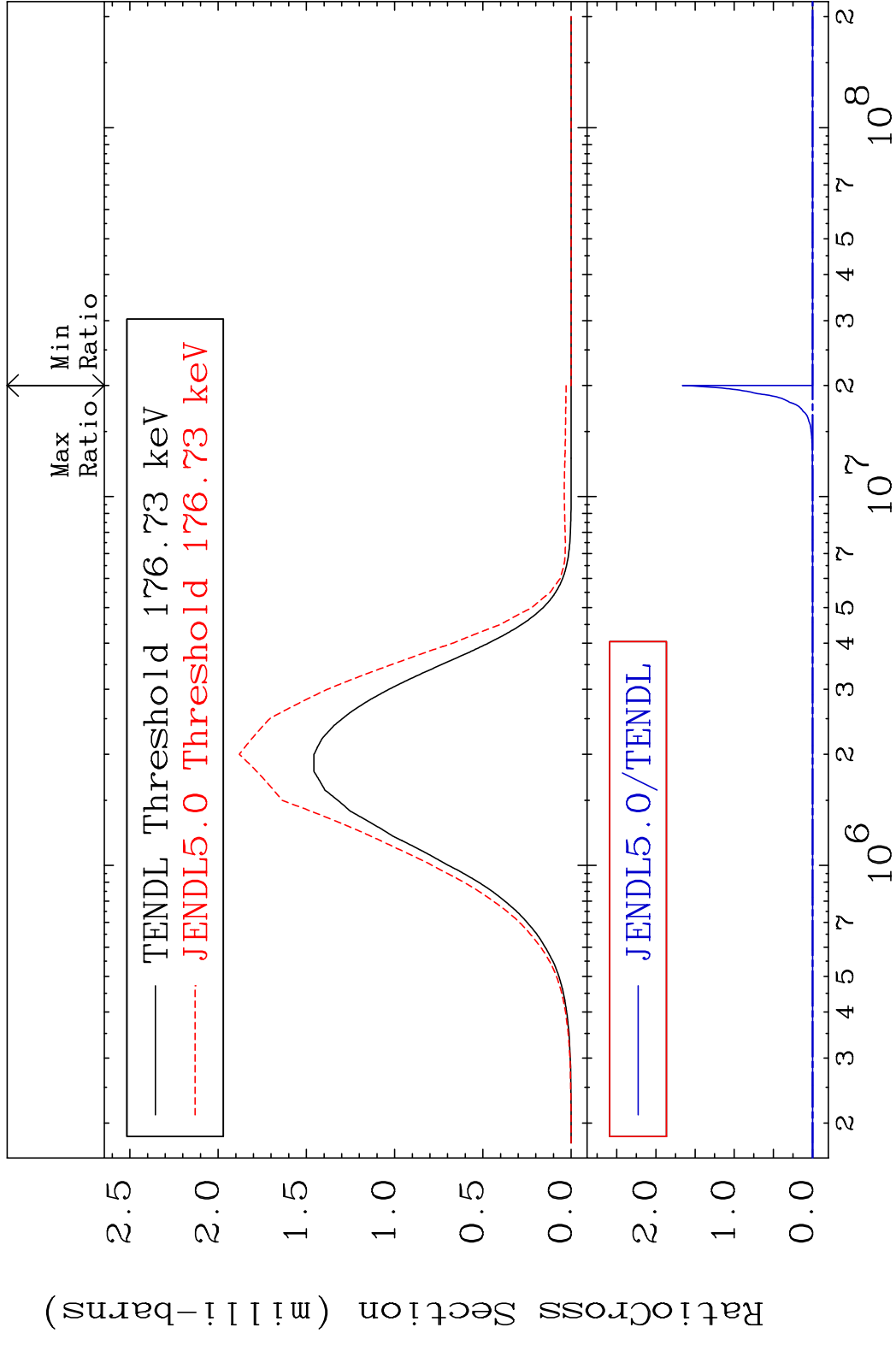
15 54-Xe-129m

MAT 5441 MT= 55 (n,n') Level 54-Xe-129m
 Cross Section -100.0 To 9999. %

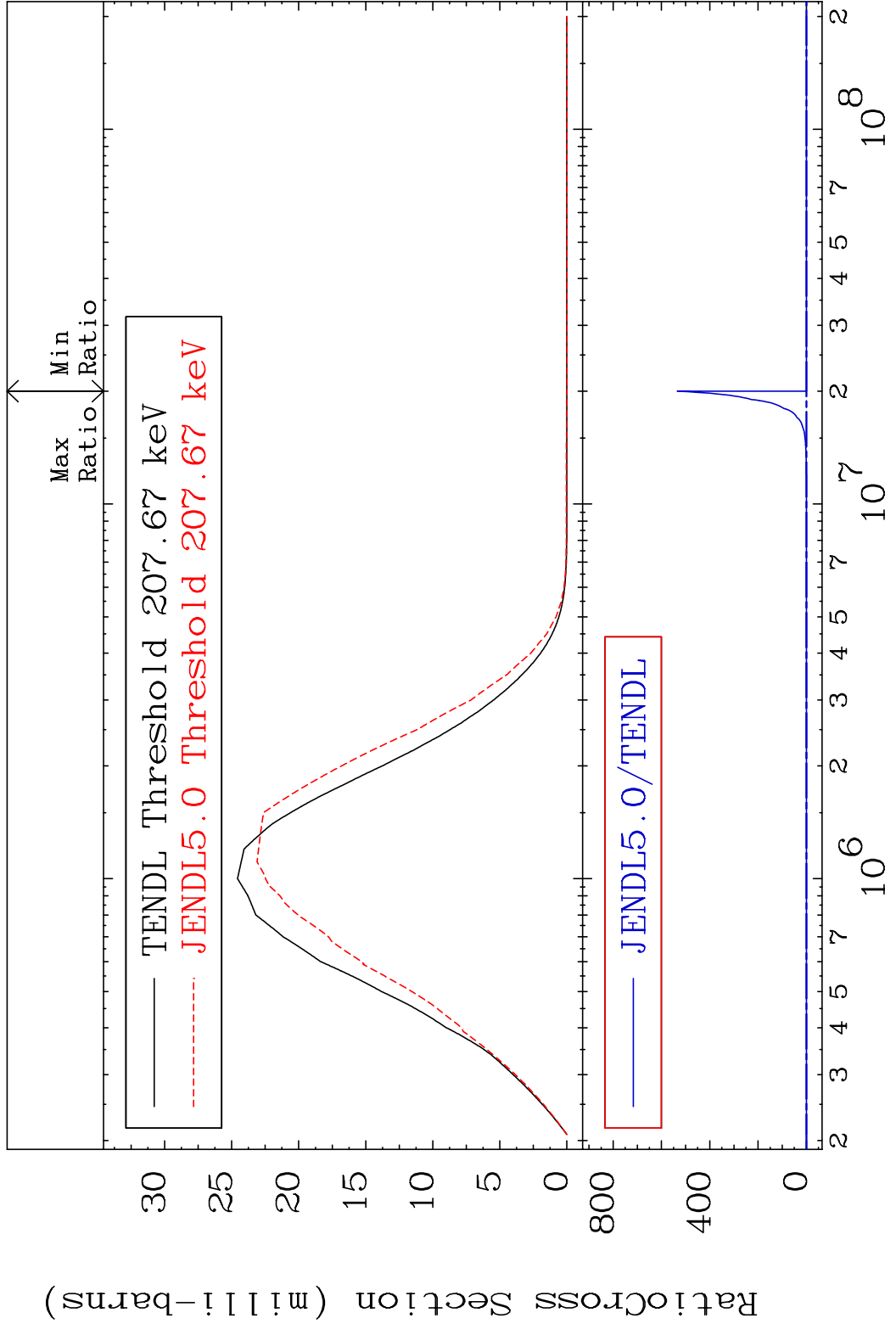


16 Incident Energy (eV) 54-Xe-129m

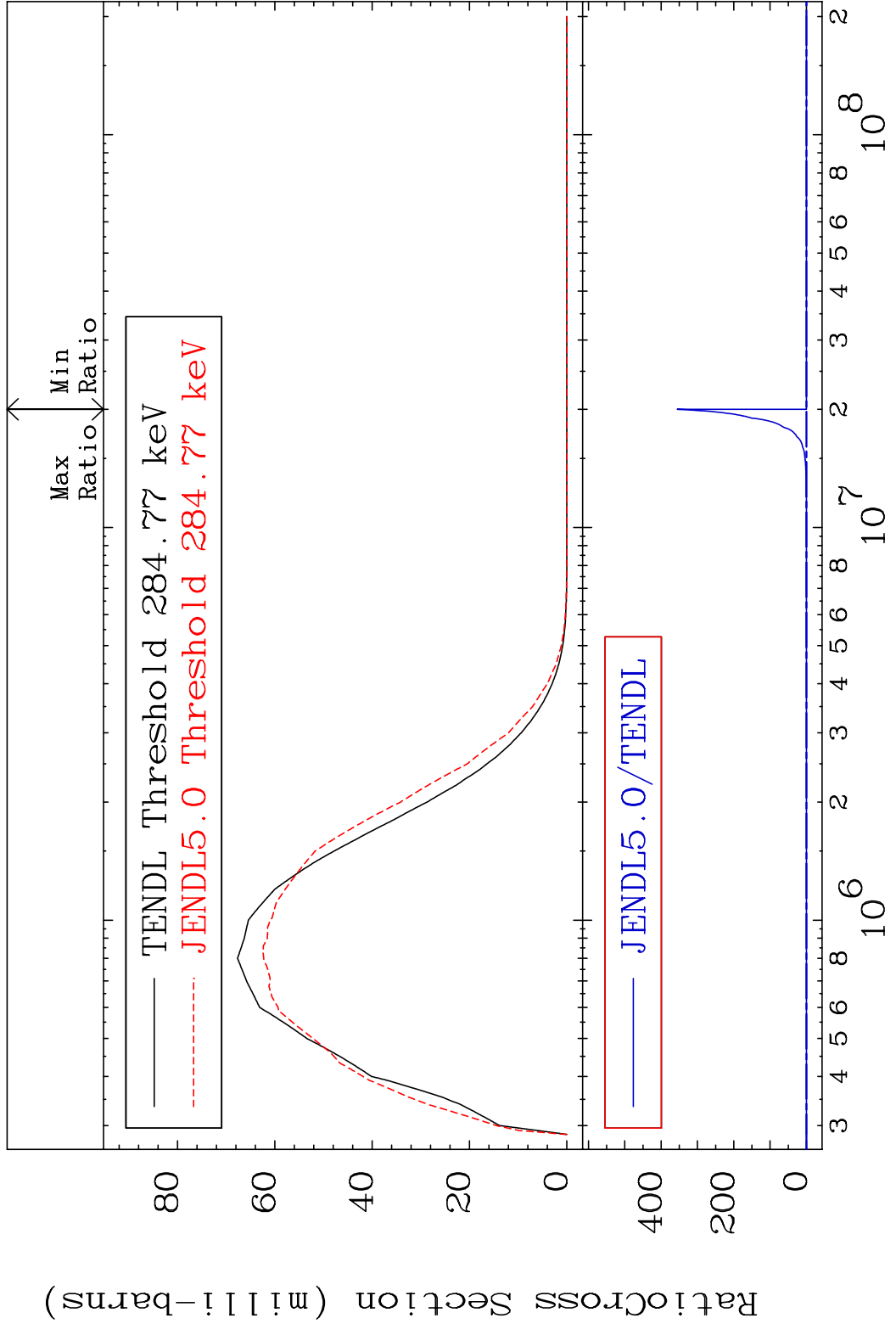
MAT 5441 MT= 56 (n,n') Level 54-Xe-129m
 Cross Section -100.0 To 9999. %



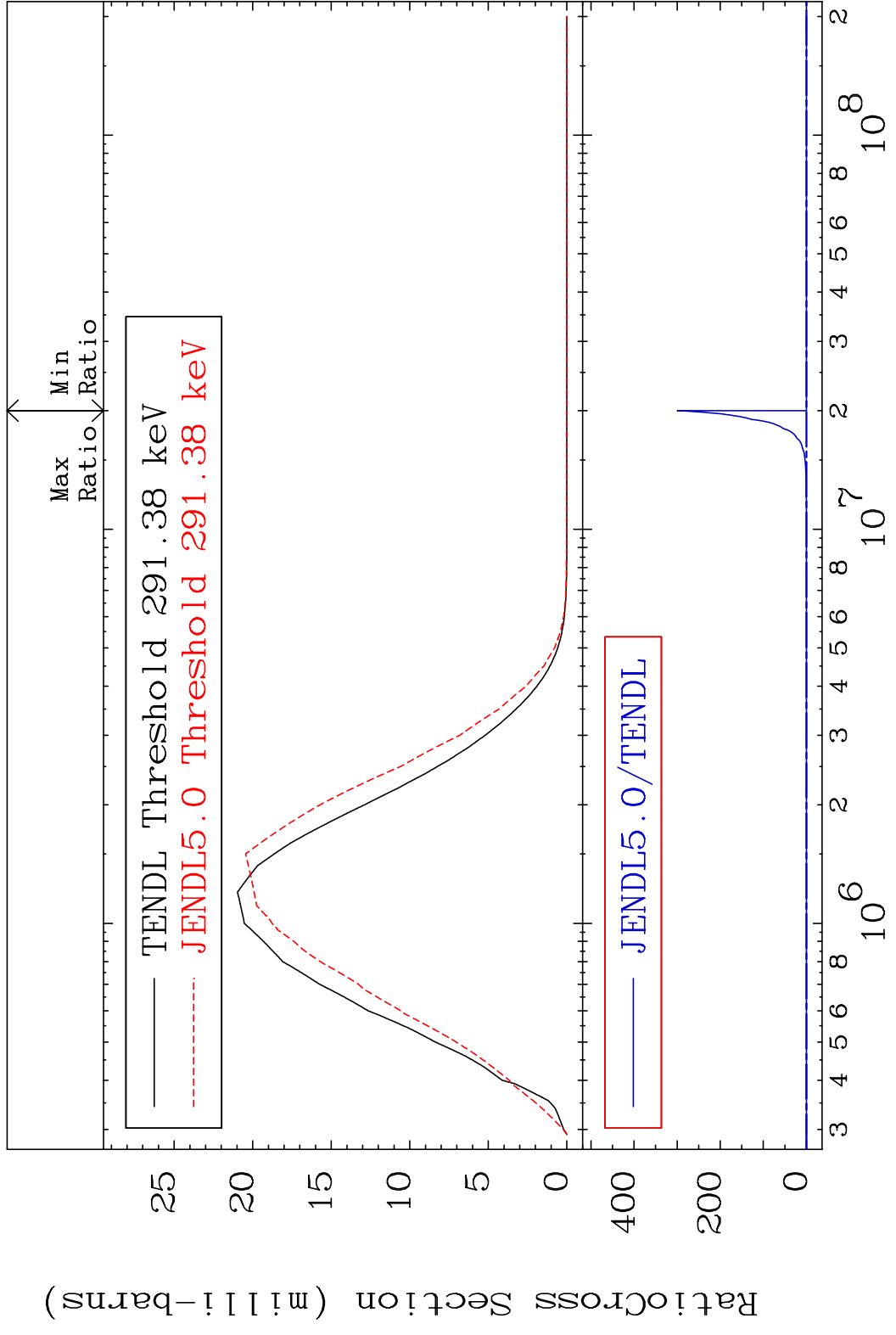
MAT 5441 MT= 57 (n,n') Level 54-Xe-129m
 Cross Section -100.0 To 9999. %



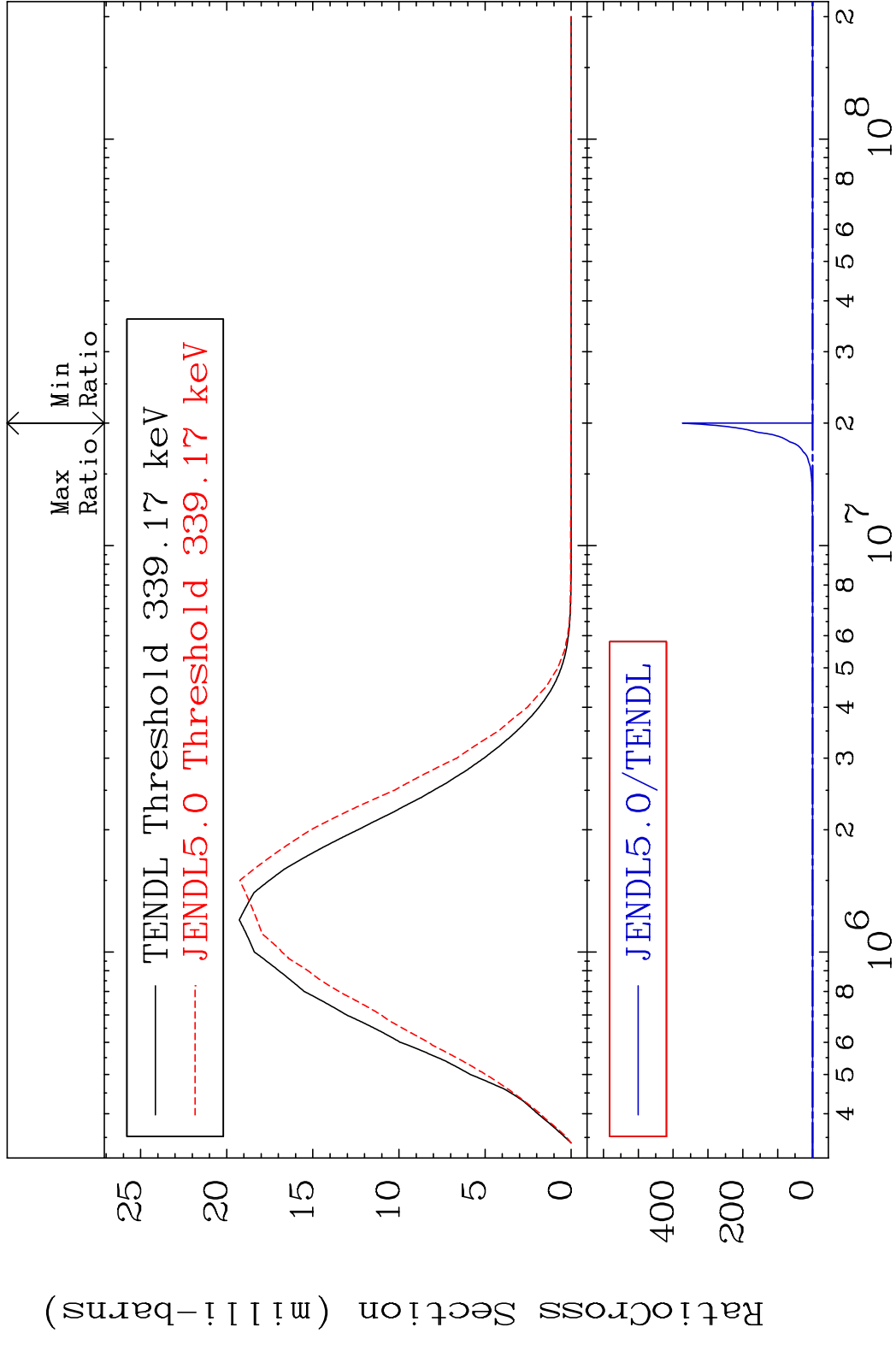
MAT 5441 MT= 58 (n, n') Level 54-Xe-129m
 Cross Section -100.0 To 9999. %



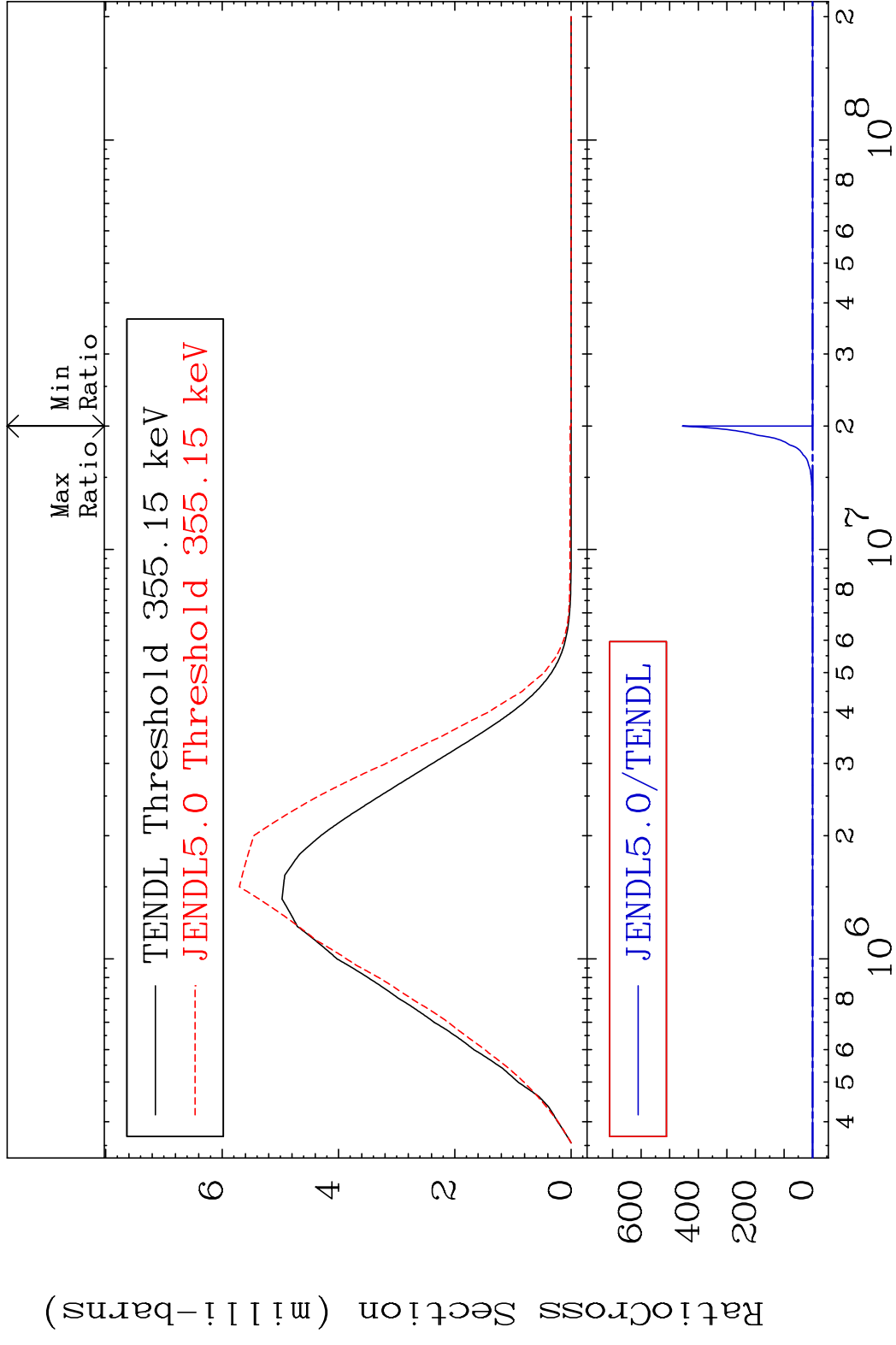
MAT 5441 MT= 59 (n, n') Level 54-Xe-129m
 Cross Section -100.0 To 9999. %



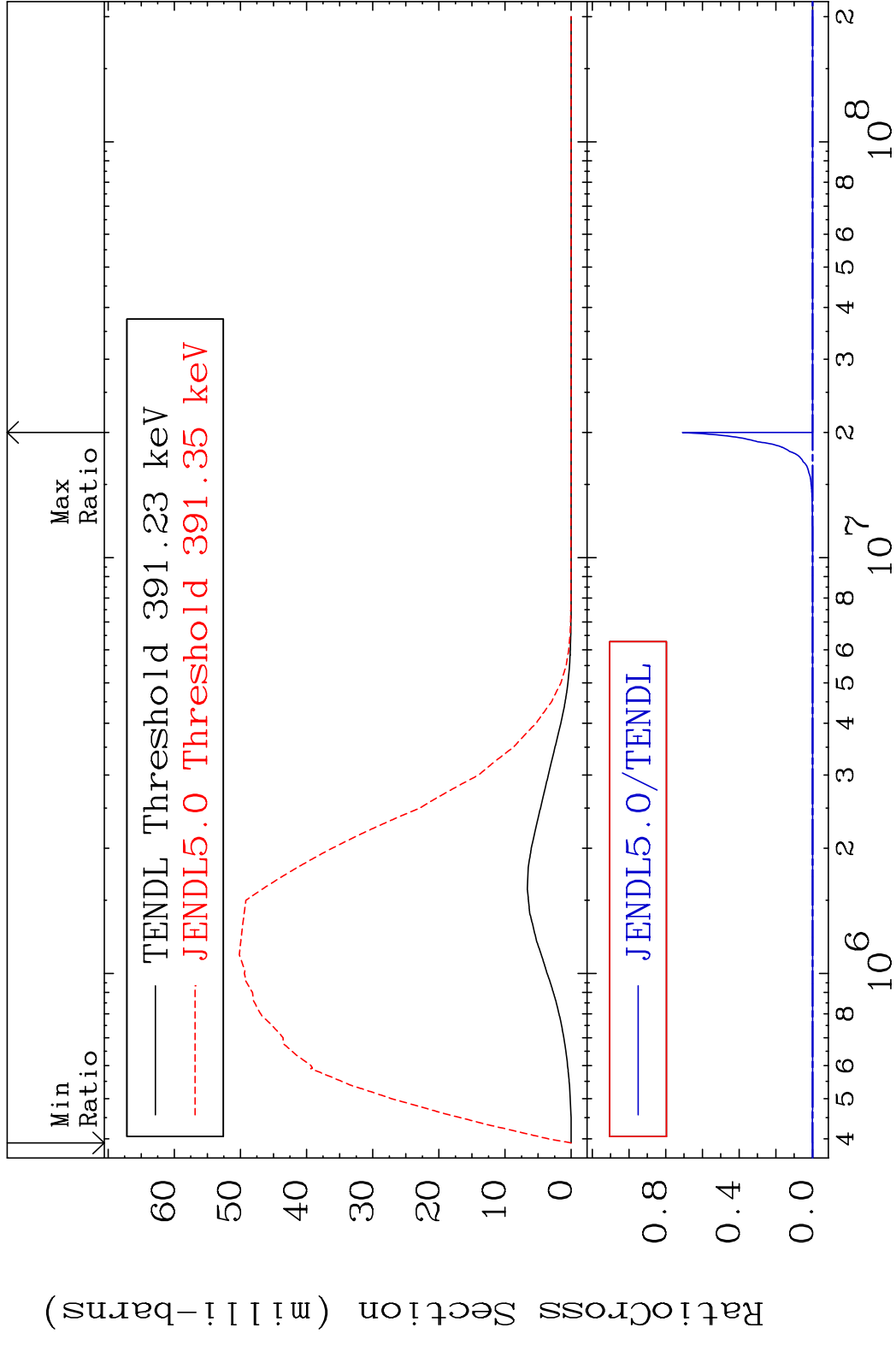
MAT 5441 MT= 60 (n, n') Level 54-Xe-129m
 Cross Section -100.0 To 9999. %



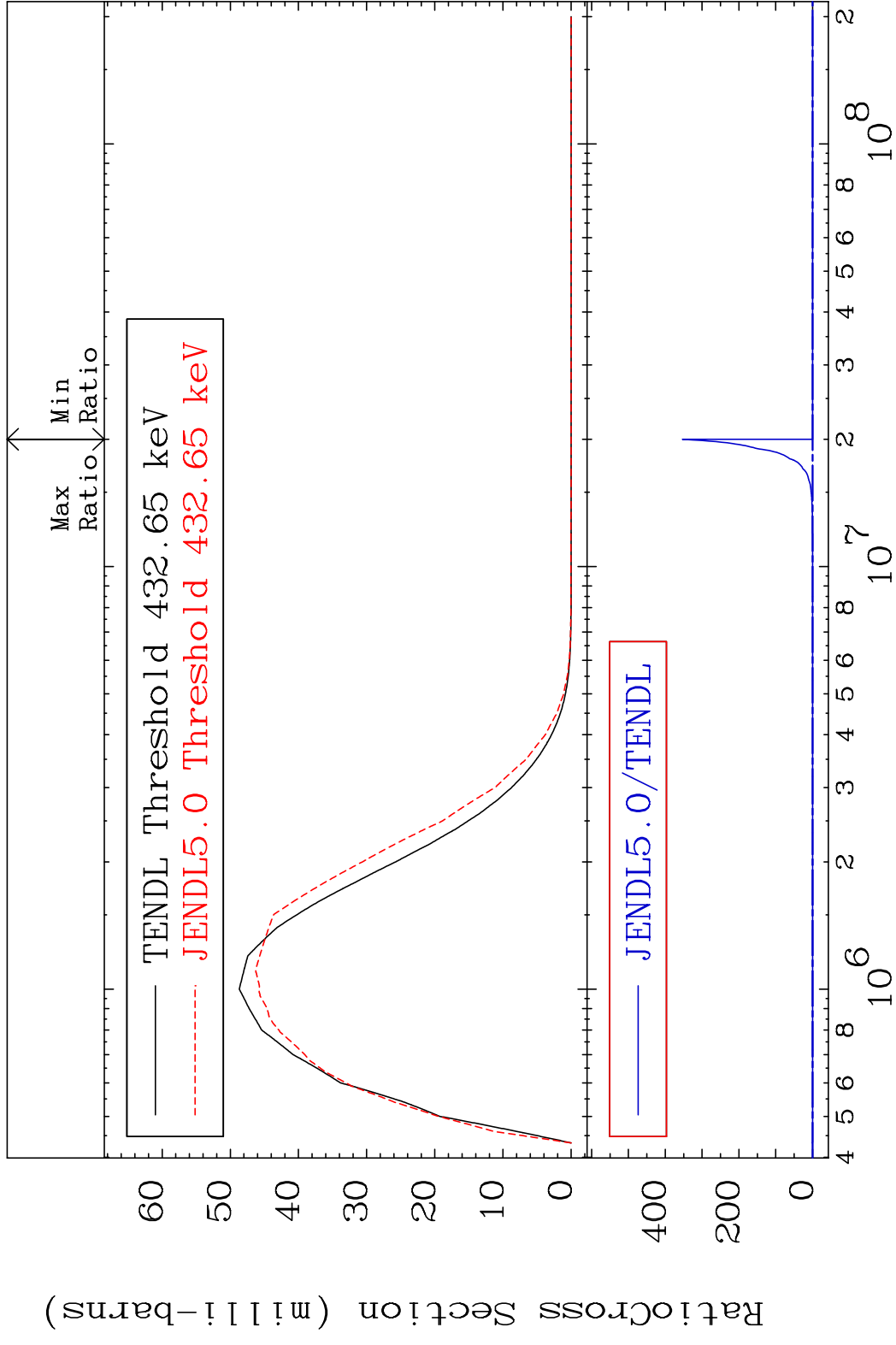
MAT 5441 MT= 61 (n, n') Level 54-Xe-129m
 Cross Section -100.0 To 9999. %



MAT 5441 MT= 62 (n, n') Level 54-Xe-129m
 Cross Section -100.0 To 9999. %

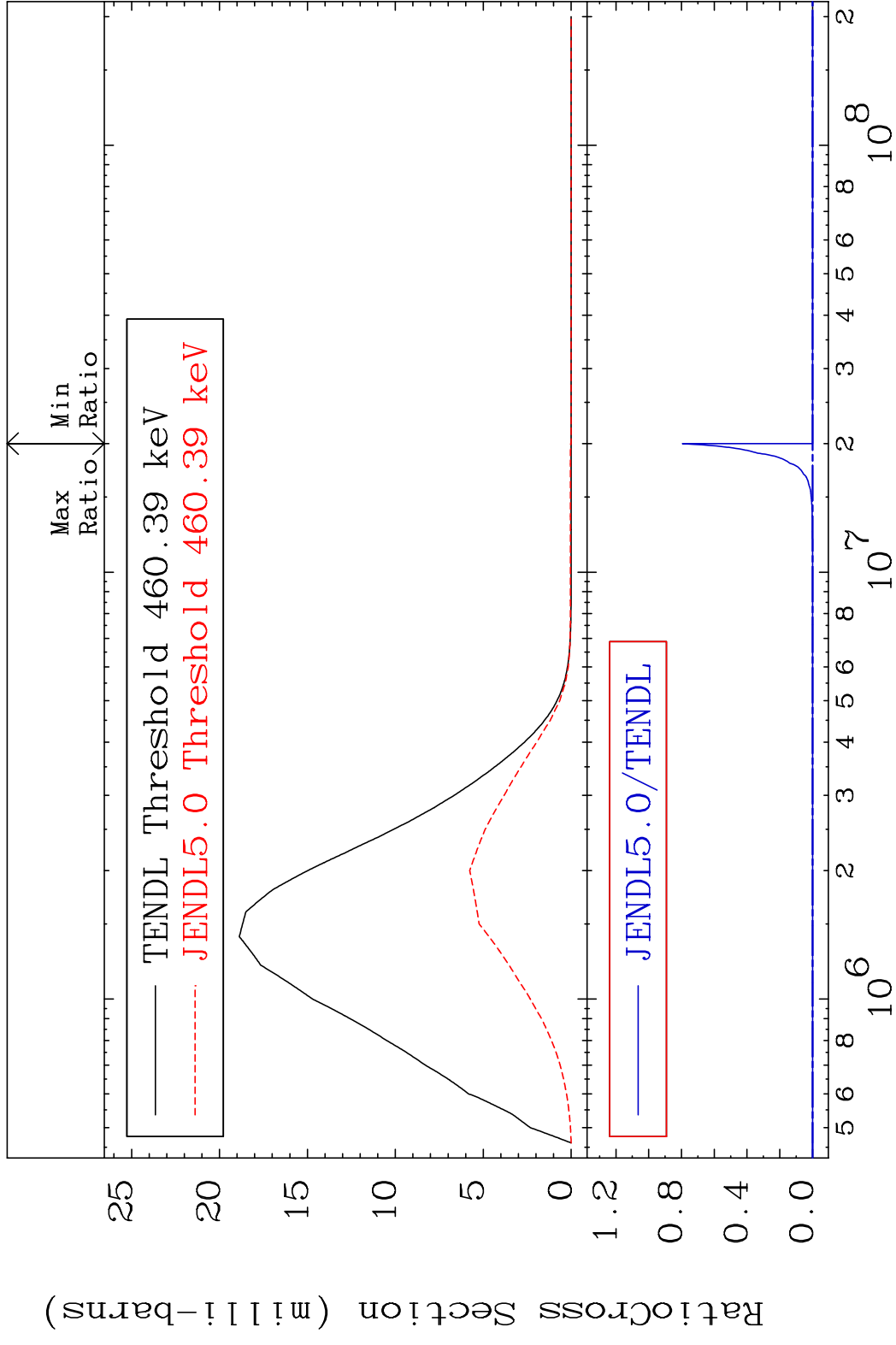


MAT 5441 MT= 63 (n, n') Level 54-Xe-129m
 Cross Section -100.0 To 9999. %

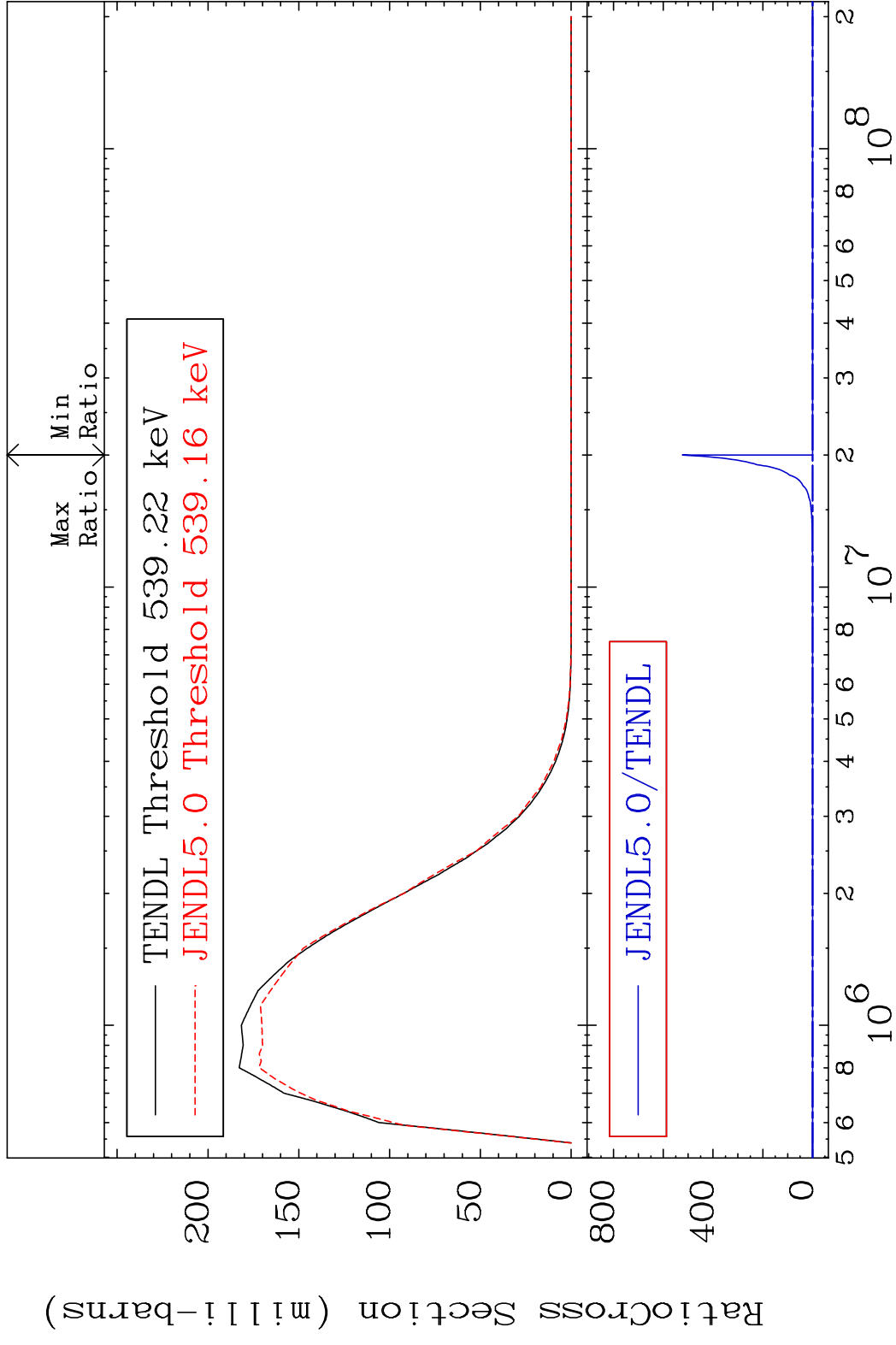


24 Incident Energy (eV) 54-Xe-129m

MAT 5441 MT= 64 (n, n') Level 54-Xe-129m
 Cross Section -100.0 To 9999. %

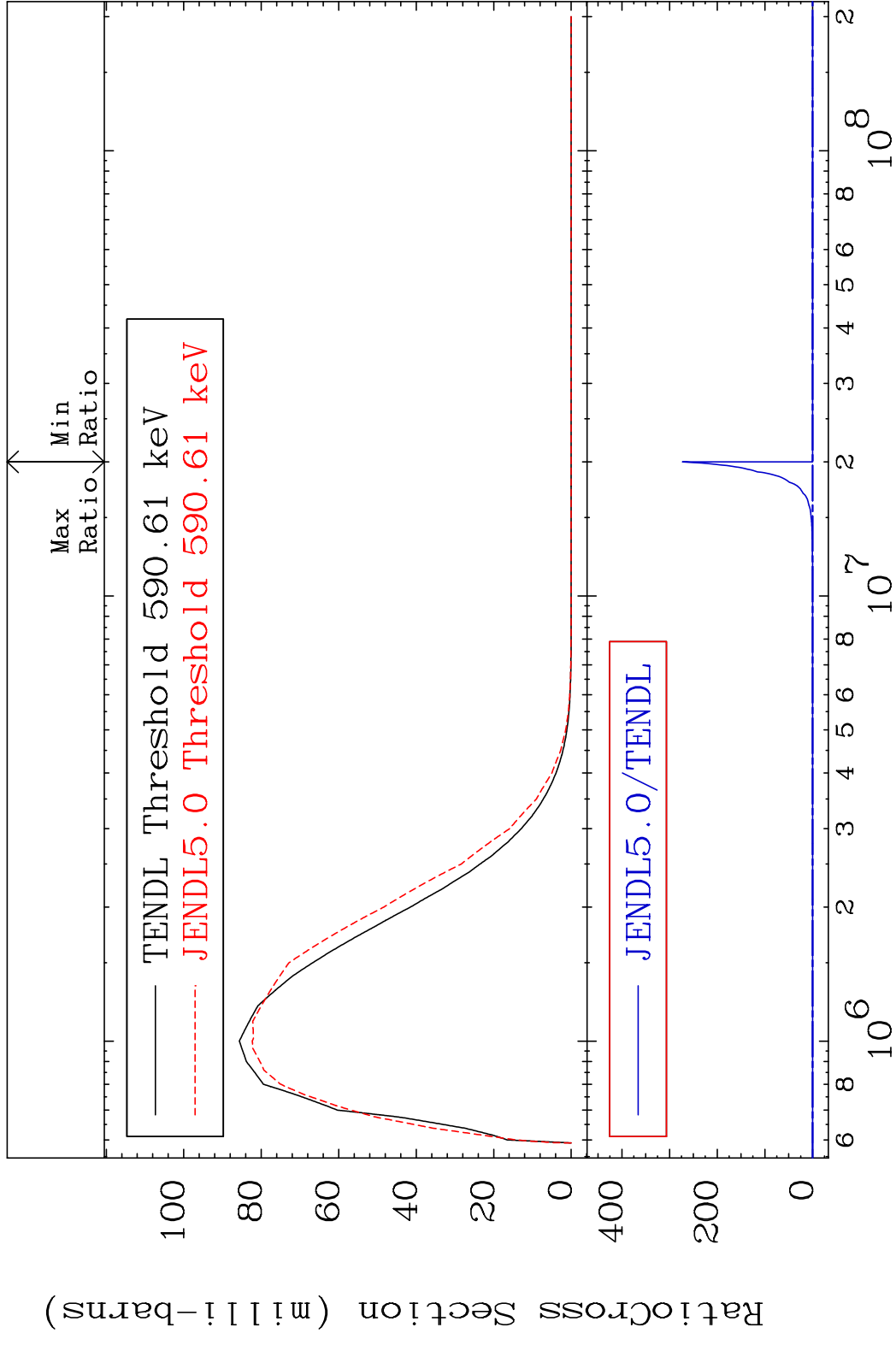


MAT 5441 MT= 65 (n, n') Level 54-Xe-129m
 Cross Section -100.0 To 9999. %

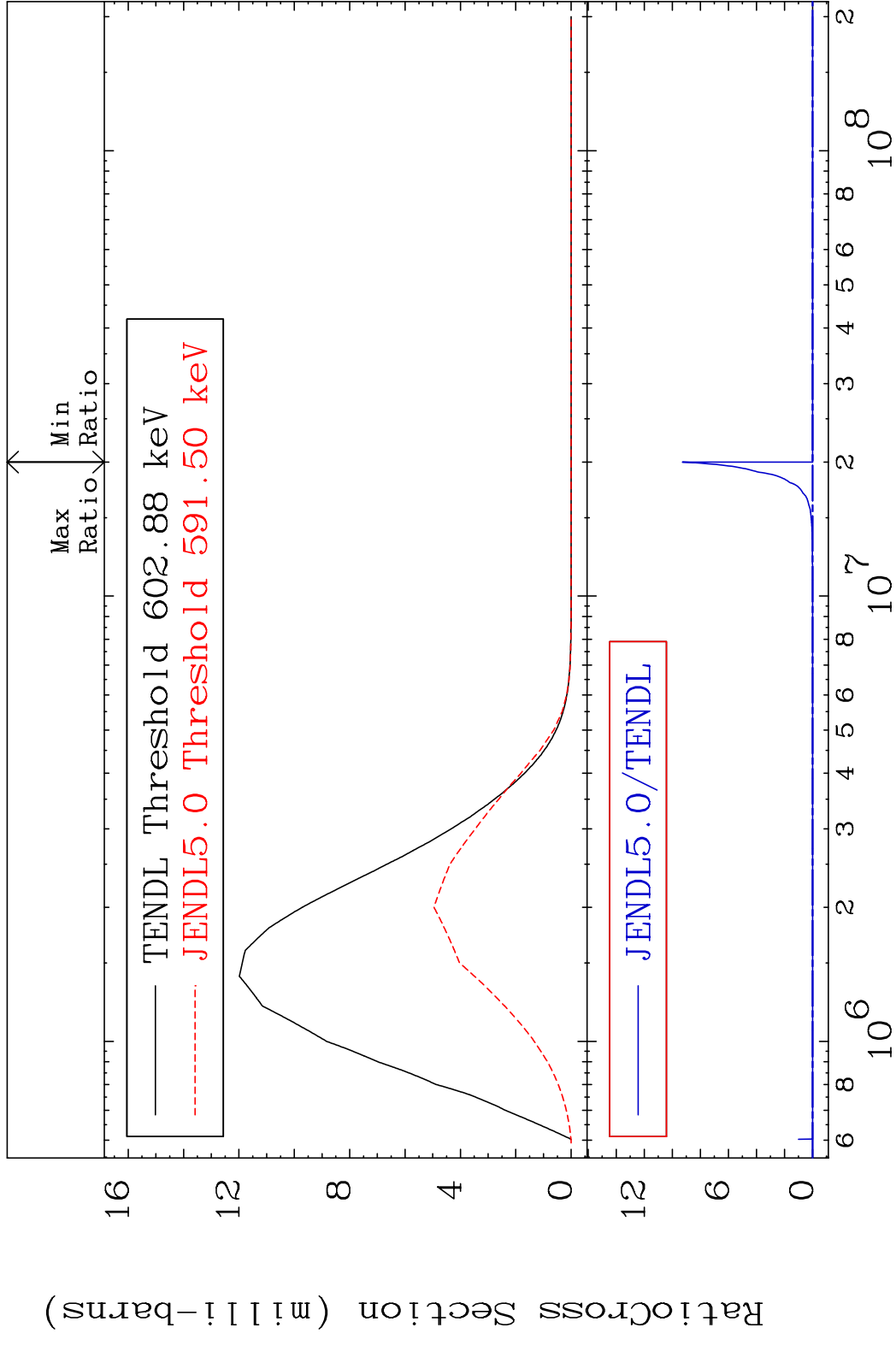


26 Incident Energy (eV) 54-Xe-129m

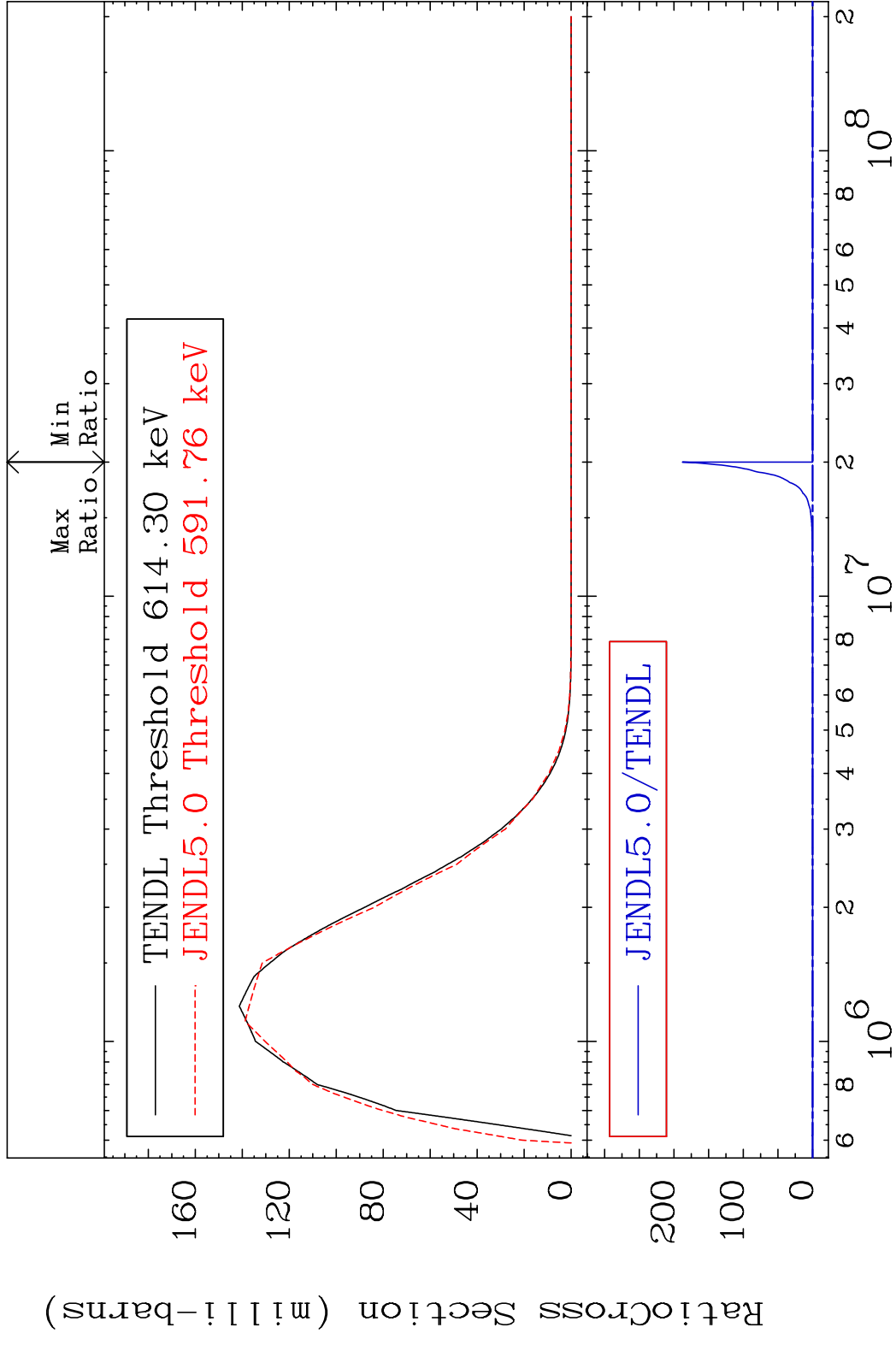
MAT 5441 MT= 66 (n, n') Level 54-Xe-129m
 Cross Section -100.0 To 9999. %



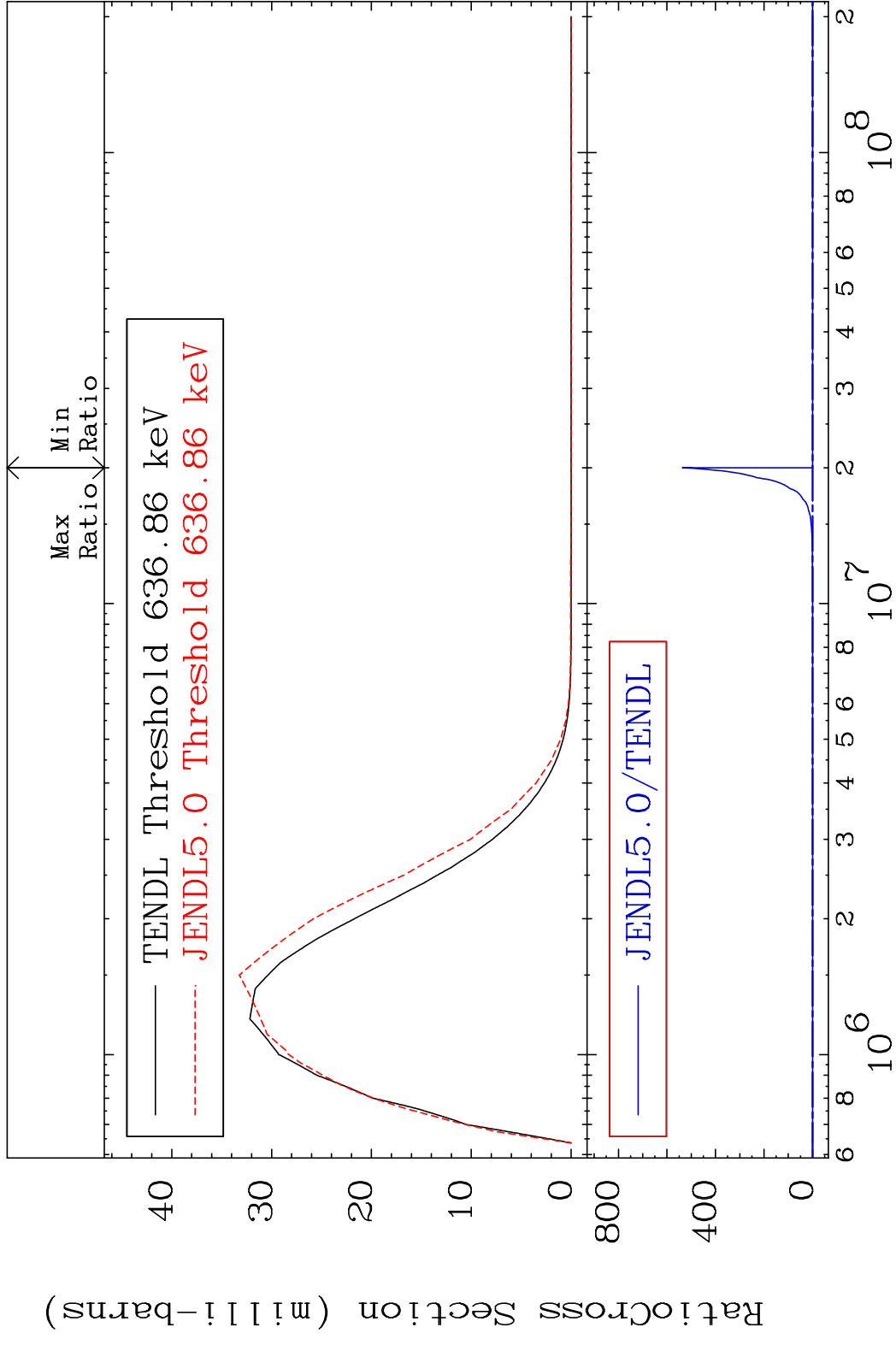
MAT 5441 MT= 67 (n, n') Level 54-Xe-129m
 Cross Section -100.0 To 9999. %



MAT 5441 MT= 68 (n, n') Level 54-Xe-129m
 Cross Section -100.0 To 9999. %

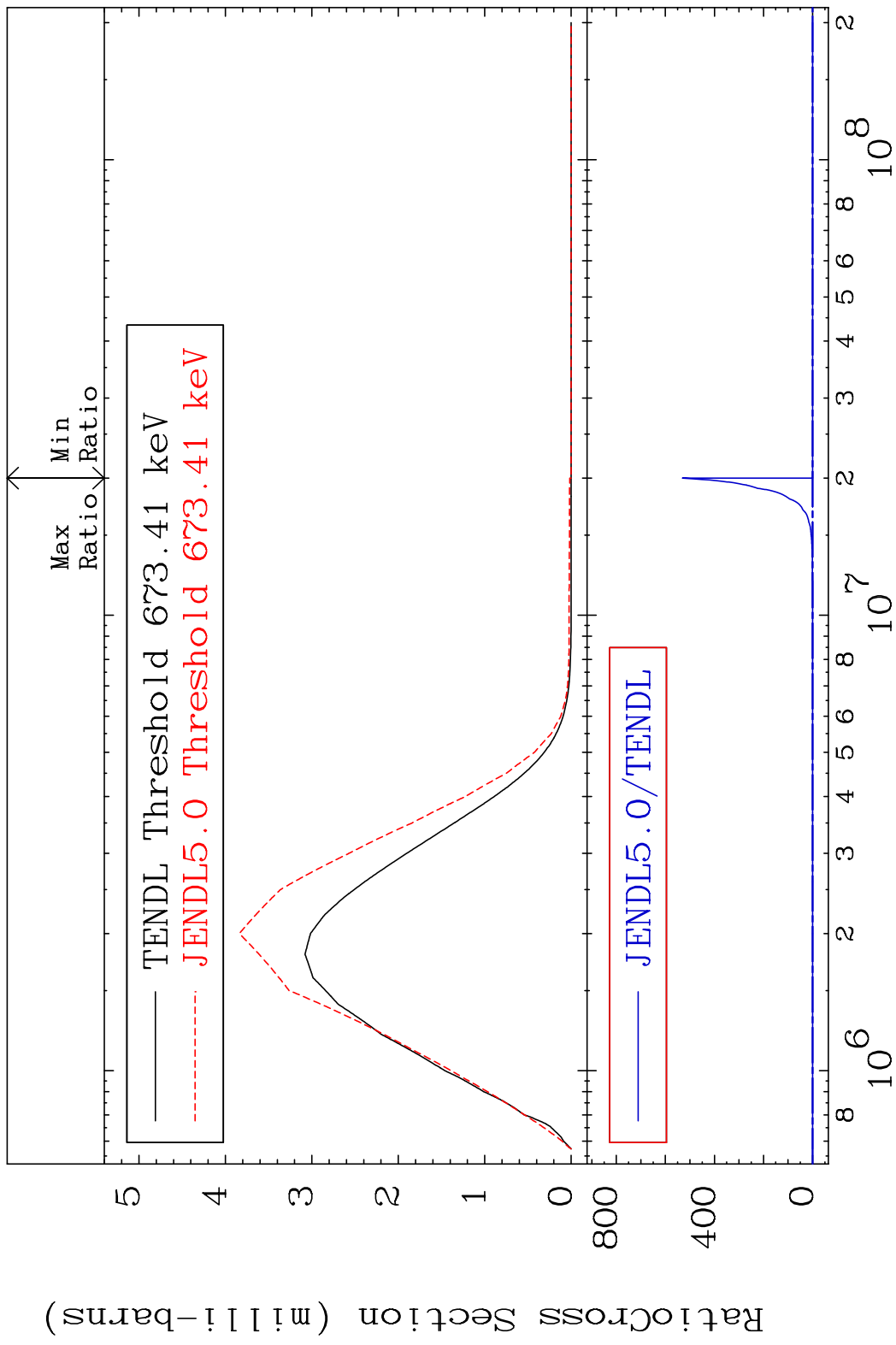


MAT 5441 MT= 69 (n, n') Level 54-Xe-129m
 Cross Section -100.0 To 9999. %

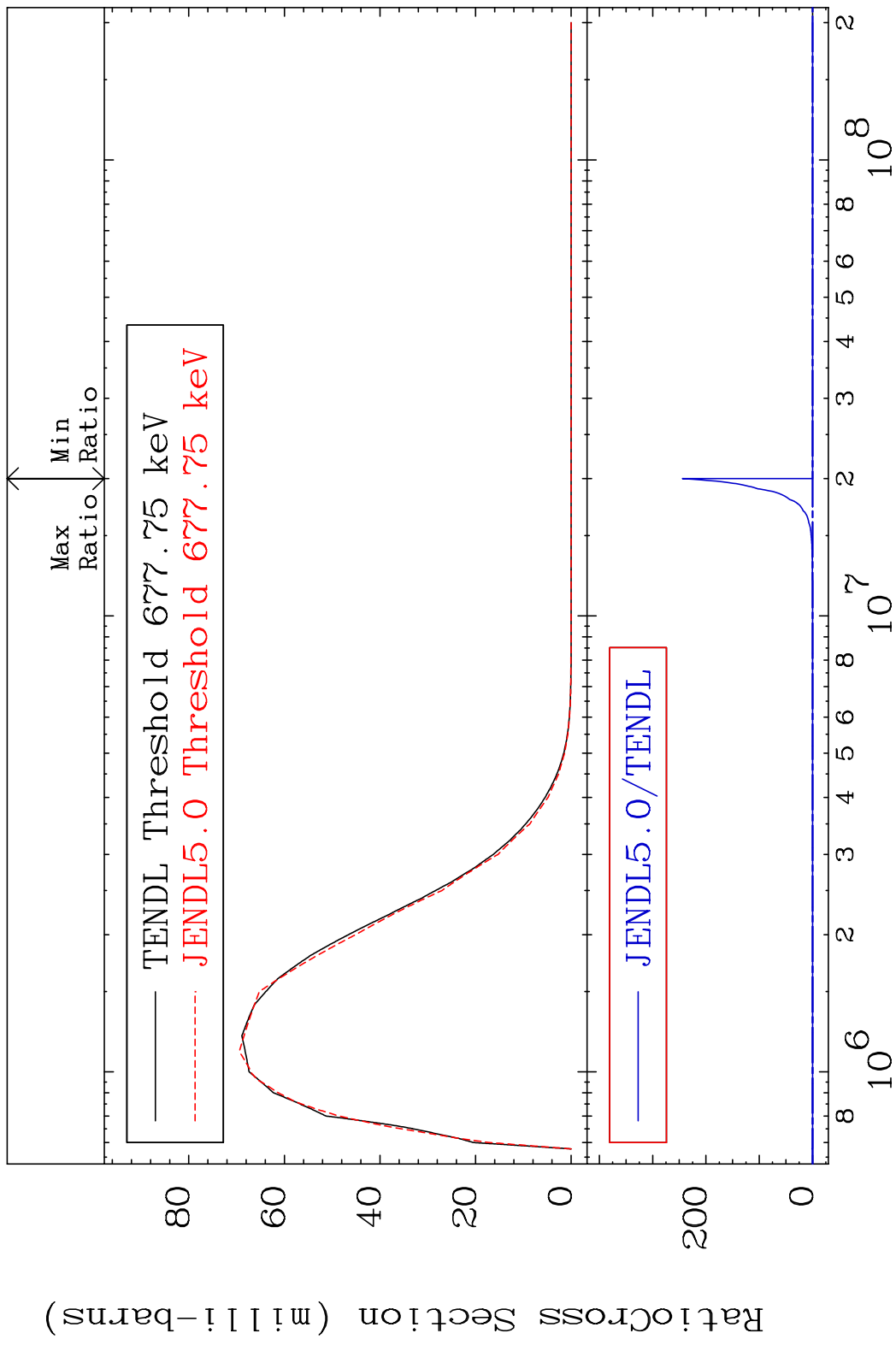


30 Incident Energy (eV) 54-Xe-129m

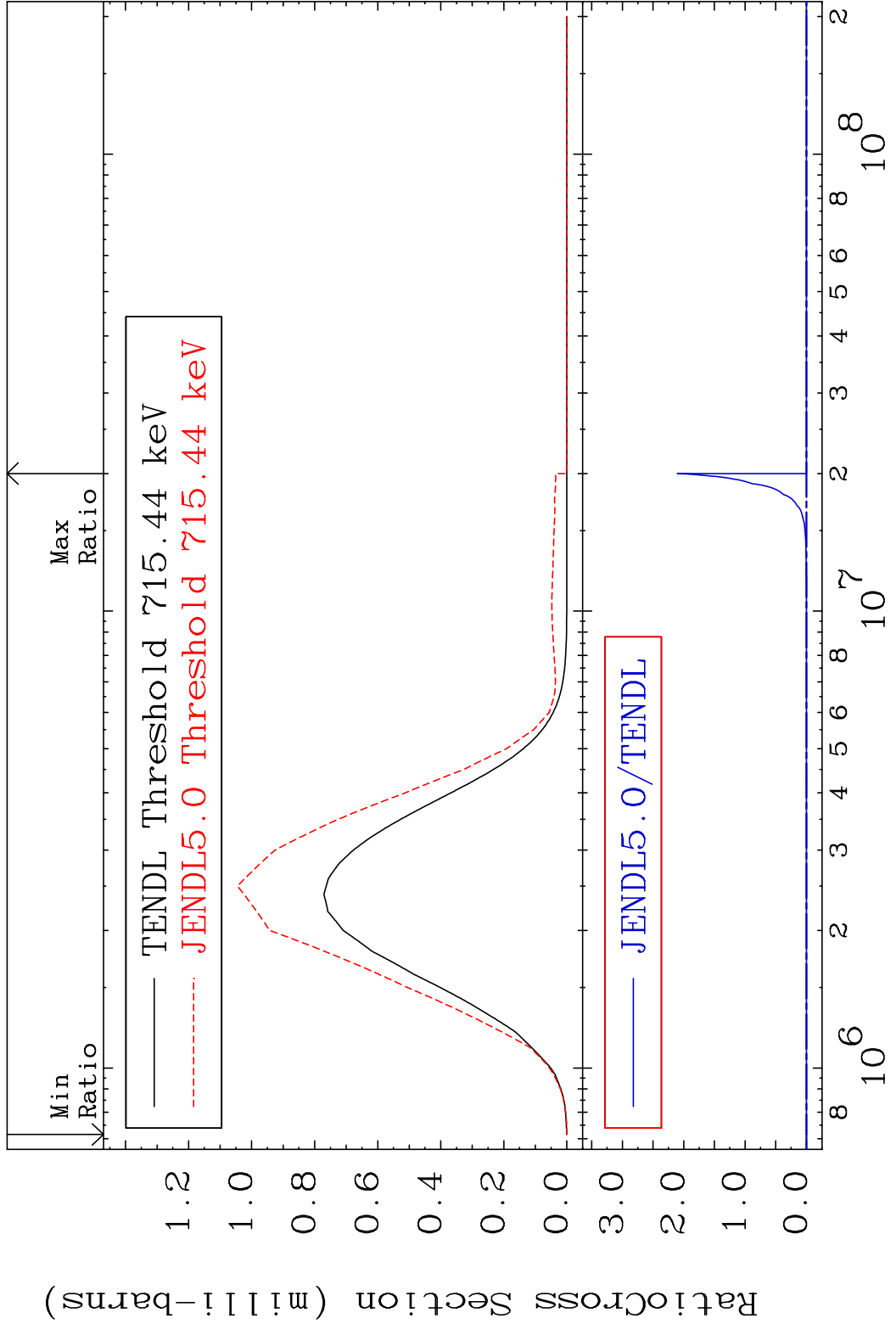
MAT 5441 MT= 70 (n, n') Level 54-Xe-129m
 Cross Section -100.0 To 9999. %



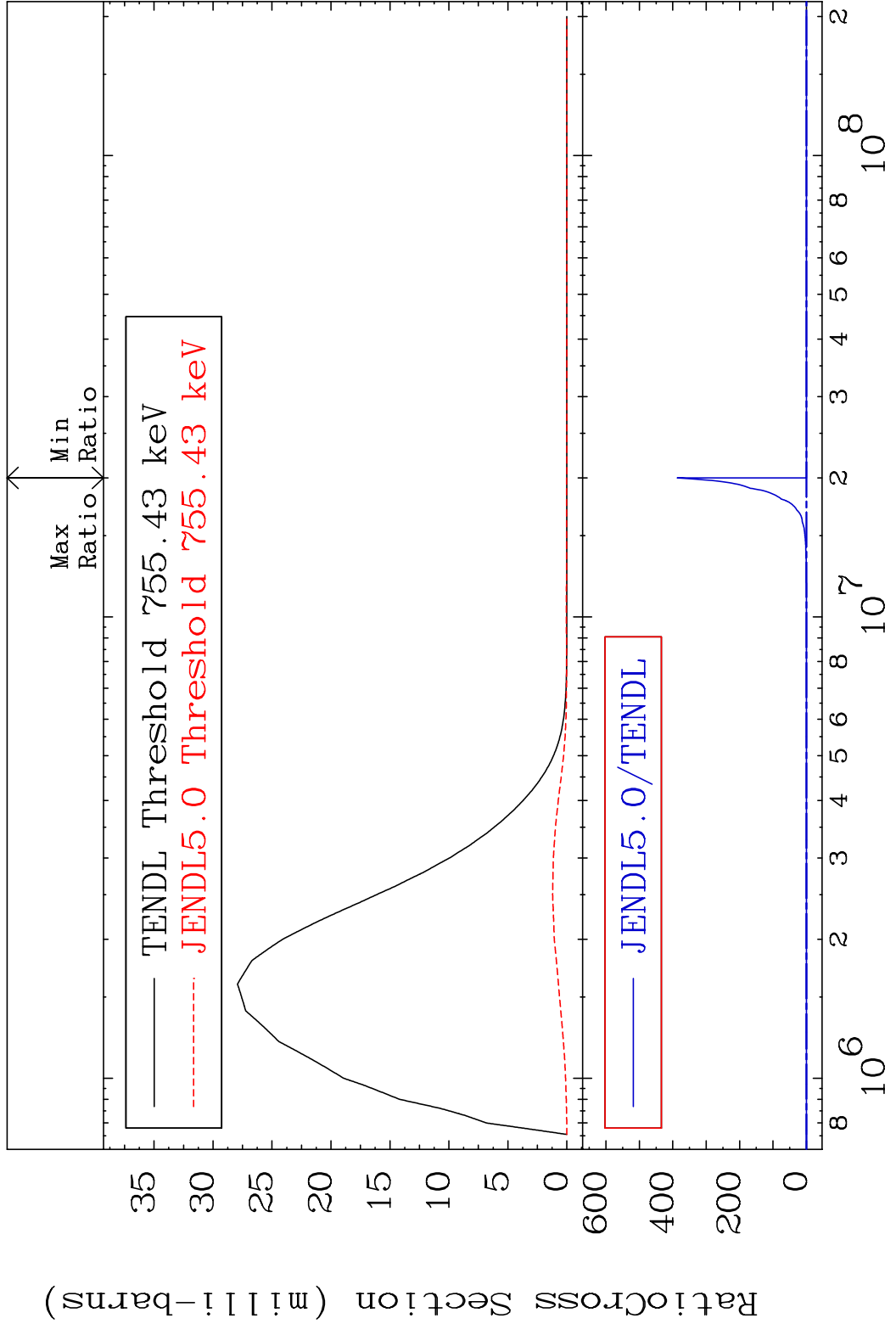
MAT 5441 MT= 71 (n, n') Level 54-Xe-129m
 Cross Section -100.0 To 9999. %



MAT 5441 MT= 72 (n, n') Level 54-Xe-129m
 Cross Section -100.0 To 9999. %

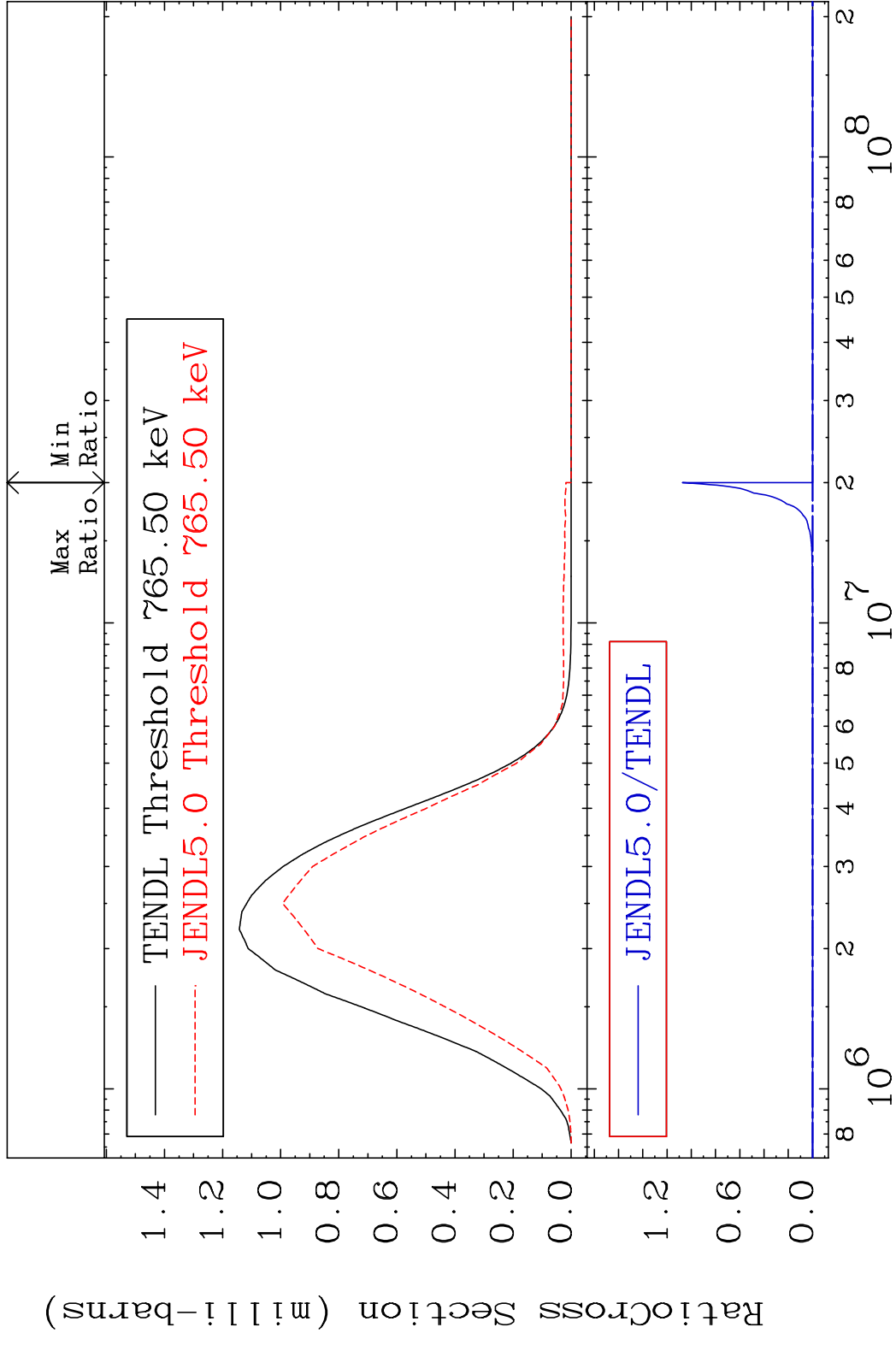


MAT 5441 MT= 73 (n, n') Level 54-Xe-129m
 Cross Section -100.0 To 9999. %

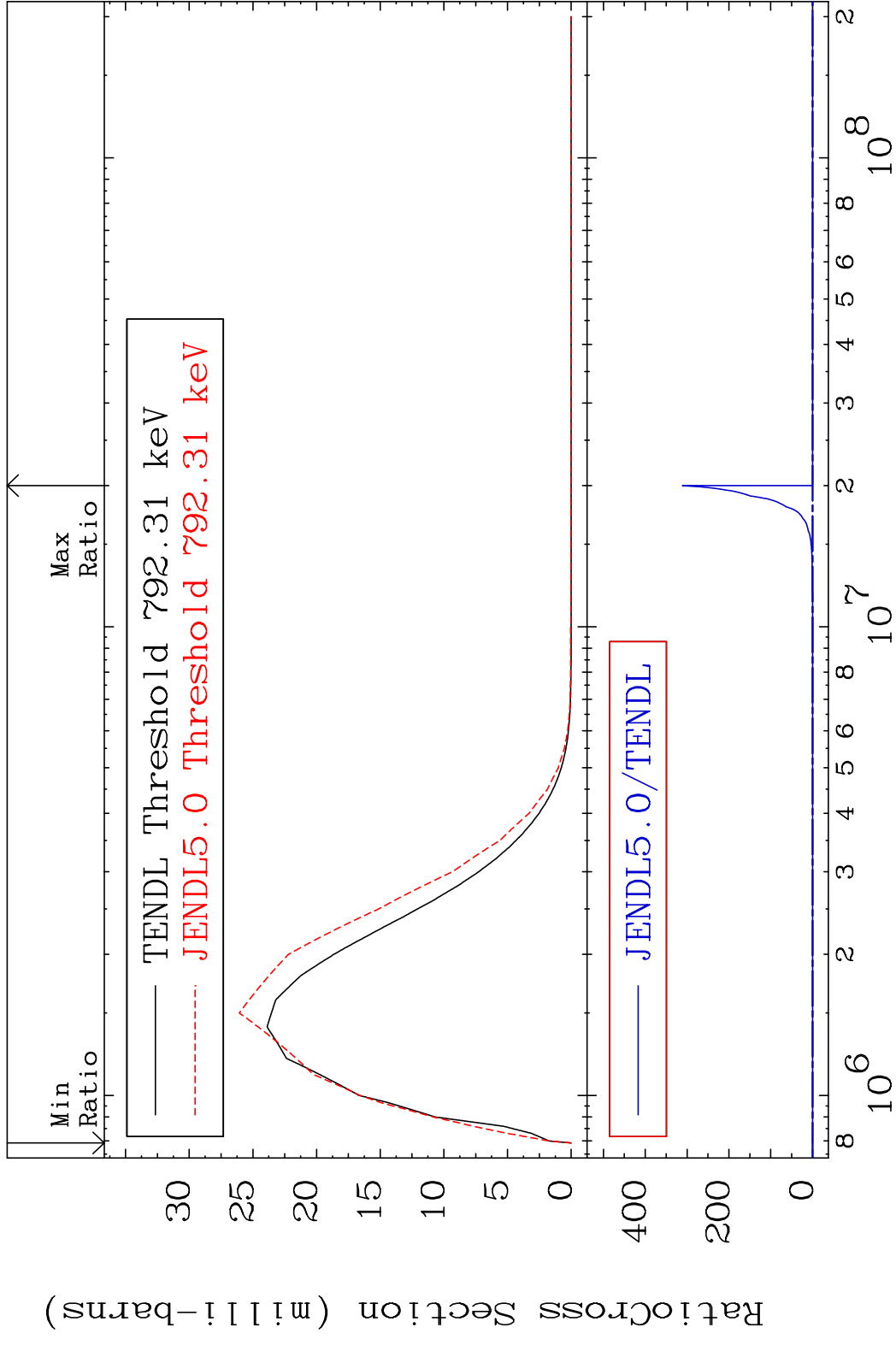


34 Incident Energy (eV) 54-Xe-129m

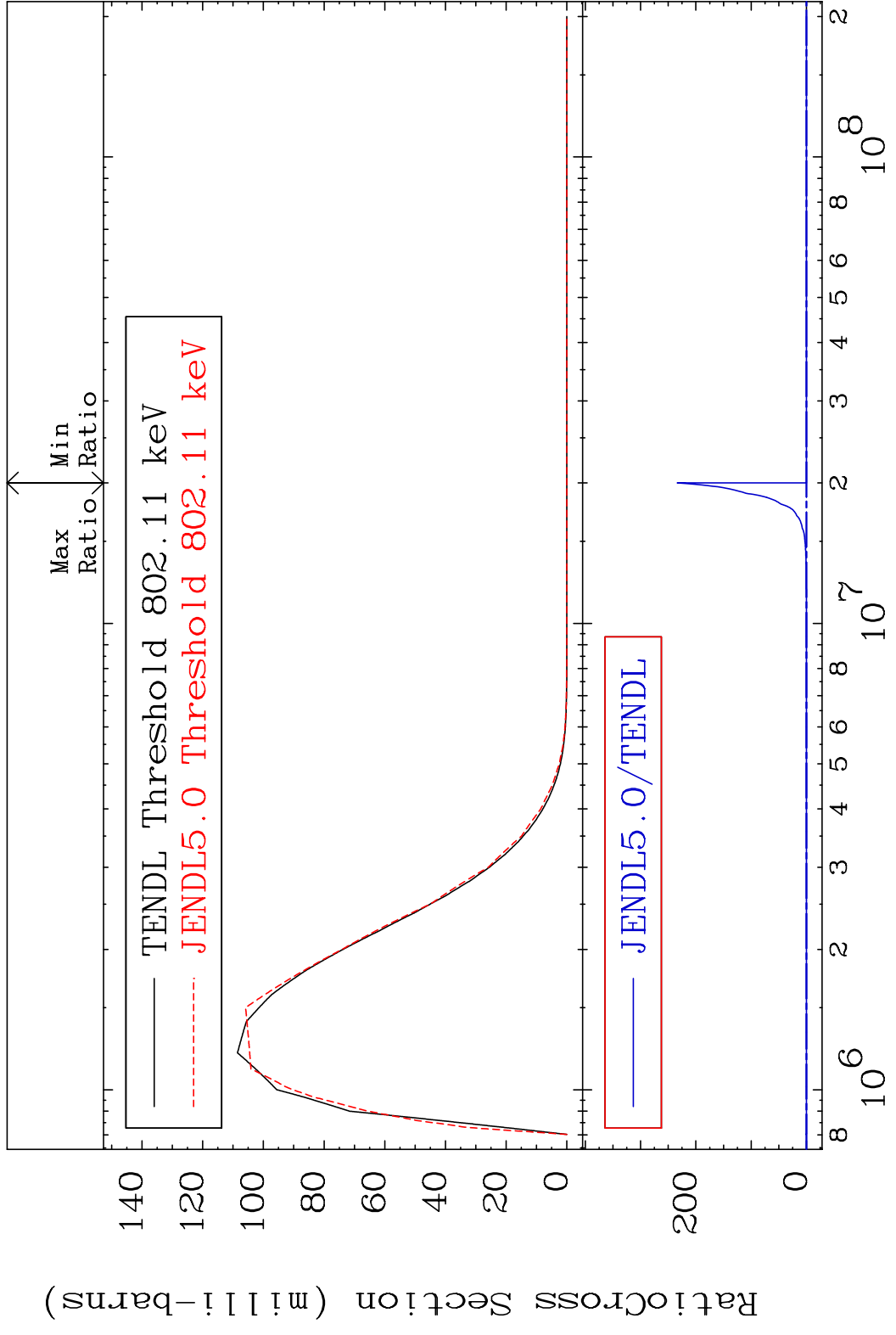
MAT 5441 MT= 74 (n, n') Level 54-Xe-129m
 Cross Section -100.0 To 9999. %



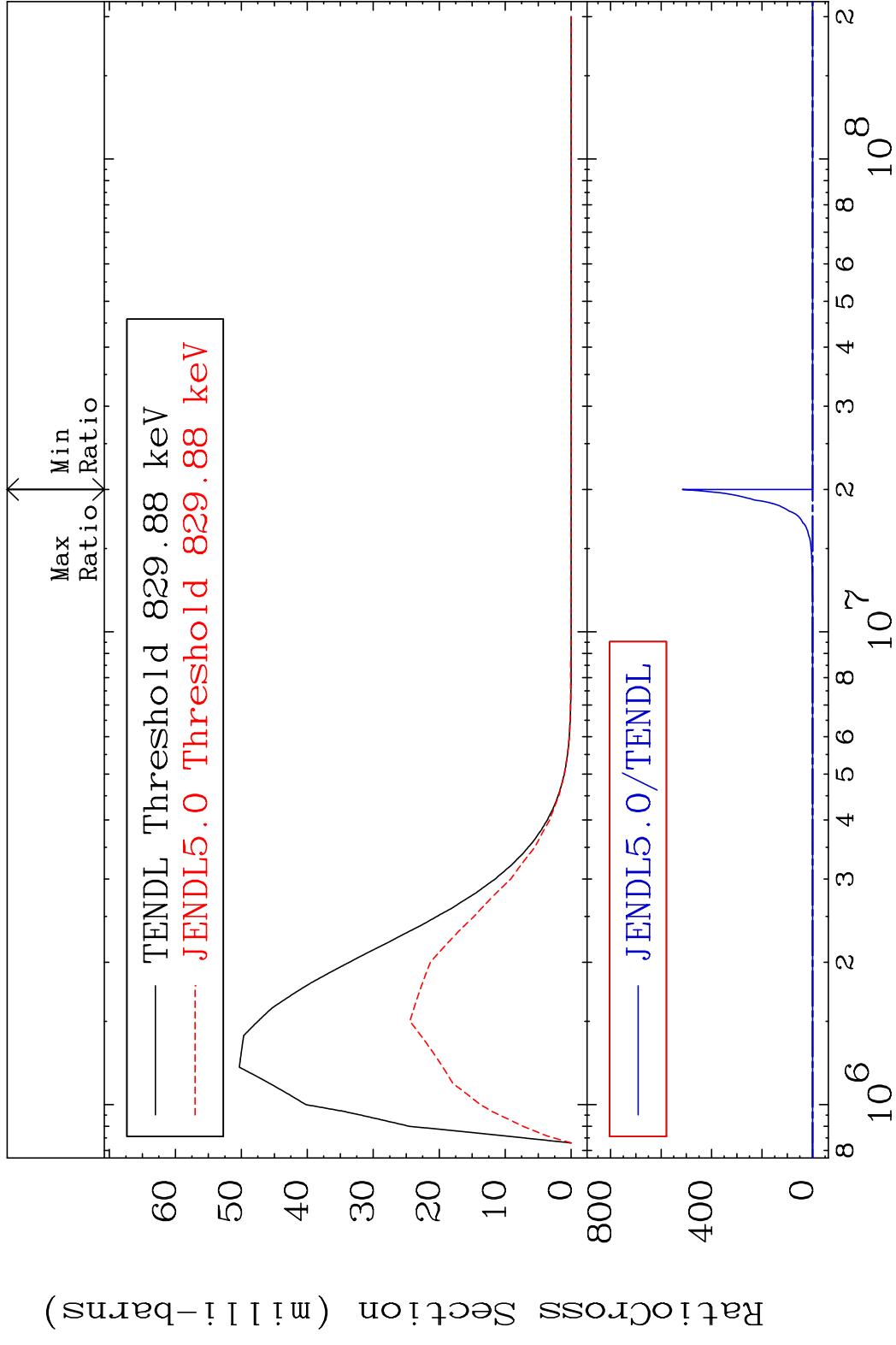
MAT 5441 MT= 75 (n,n') Level 54-Xe-129m
 Cross Section -100.0 To 9999. %



MAT 5441 MT= 76 (n, n') Level 54-Xe-129m
 Cross Section -100.0 To 9999. %

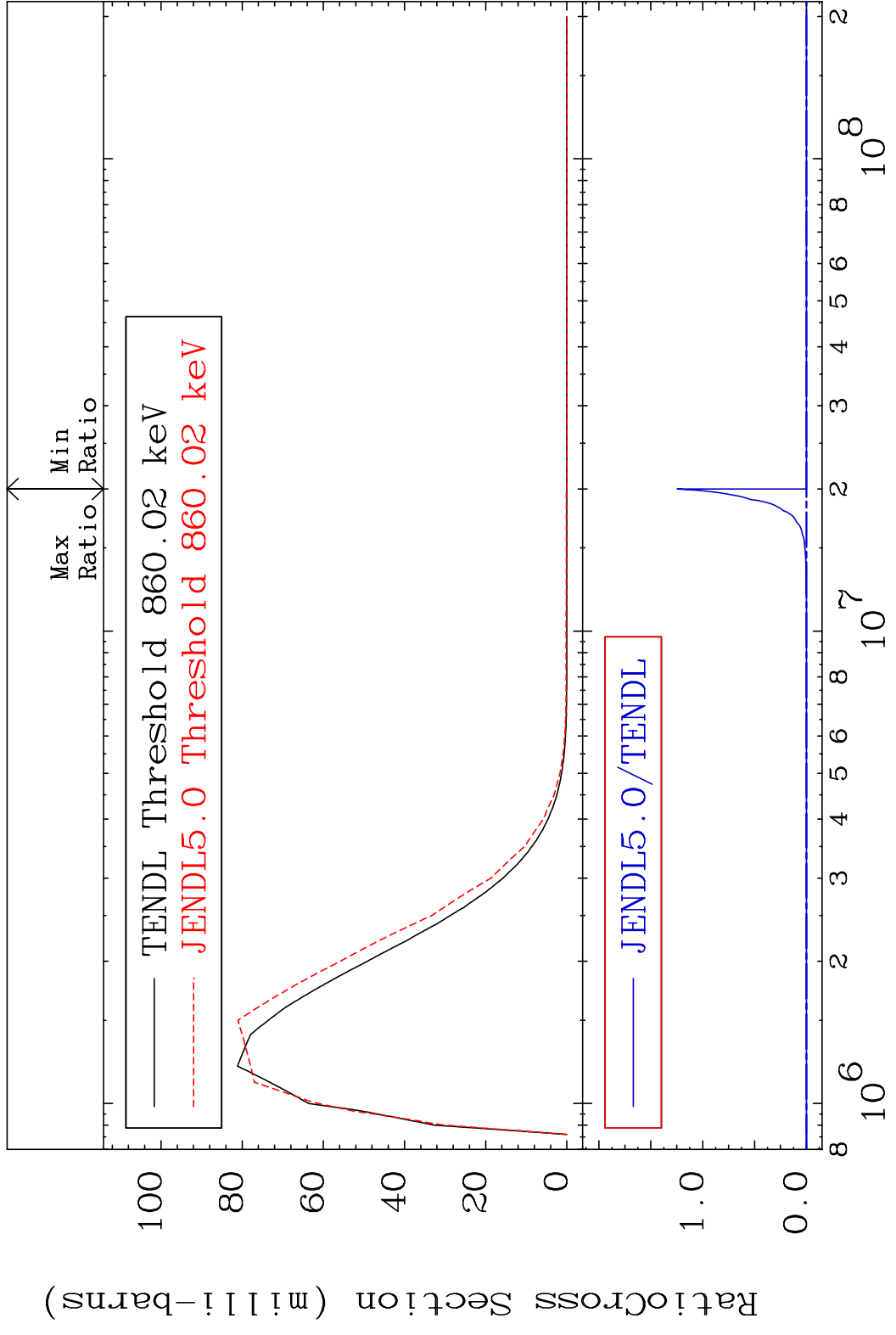


MAT 5441 MT= 77 (n, n') Level 54-Xe-129m
 Cross Section -100.0 To 9999. %



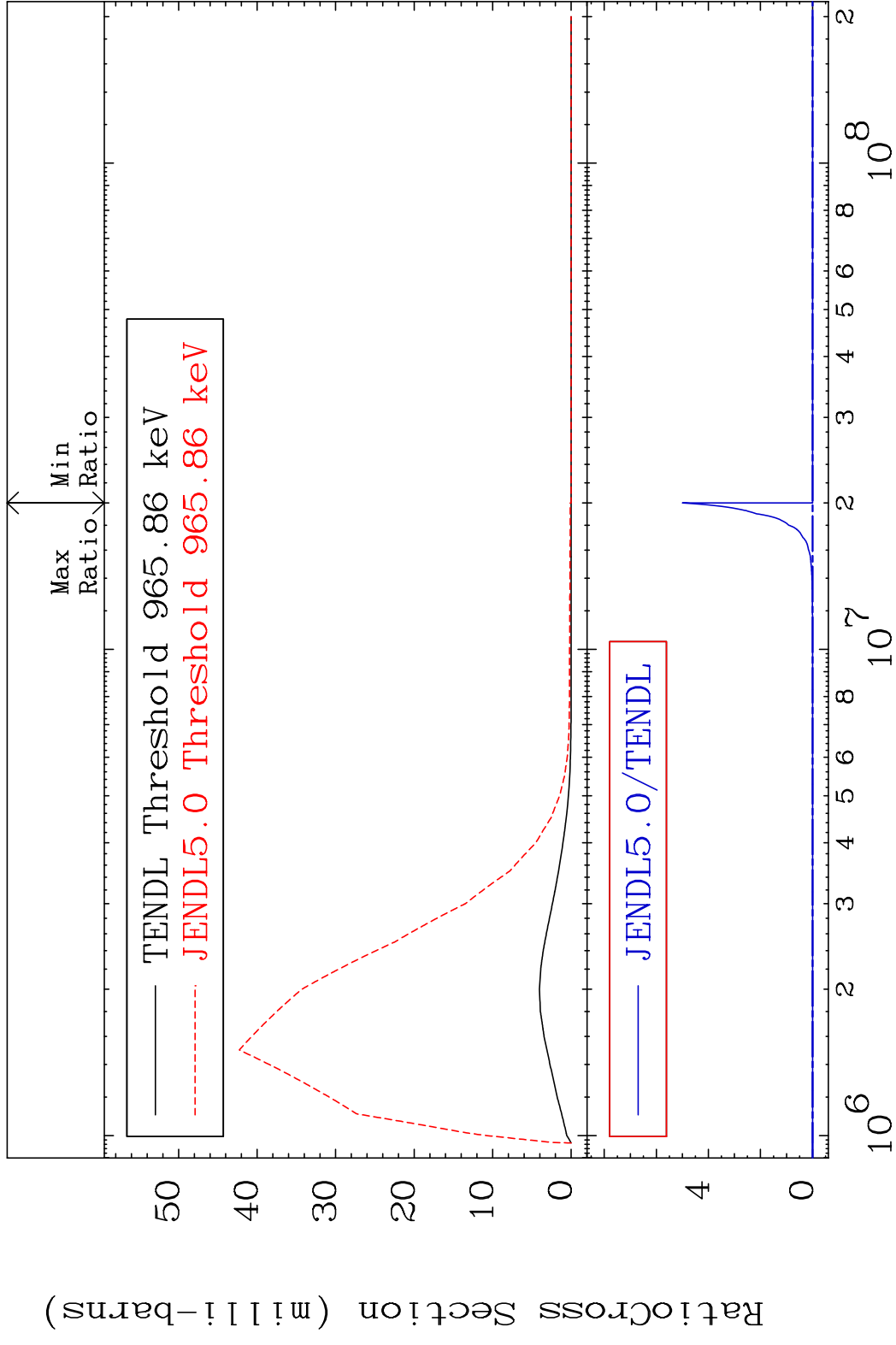
38 Incident Energy (eV) 54-Xe-129m

MAT 5441 MT= 78 (n, n') Level 54-Xe-129m
 Cross Section -100.0 To 9999. %



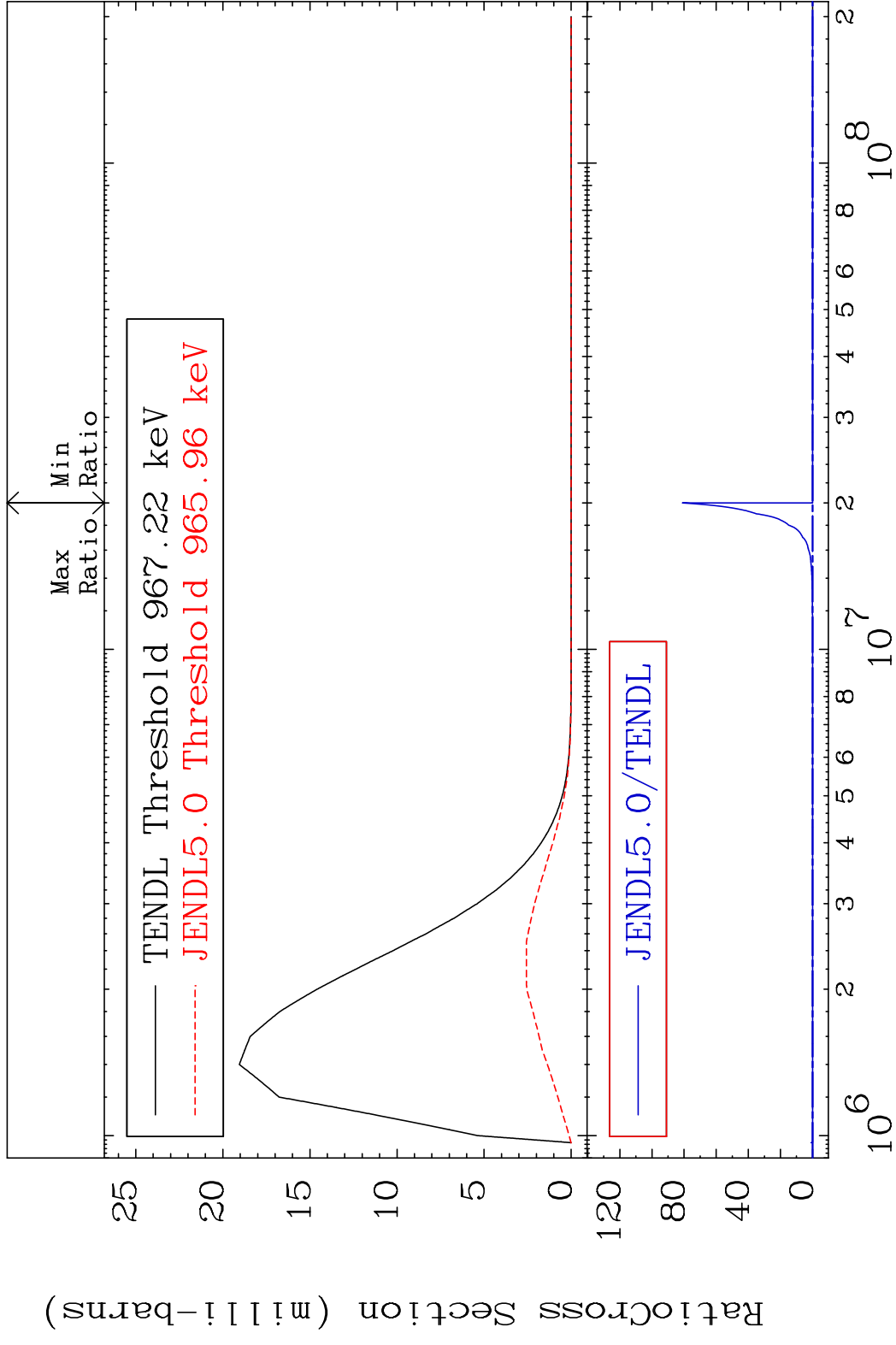
39 Incident Energy (eV) 54-Xe-129m

MAT 5441 MT= 79 (n, n') Level 54-Xe-129m
 Cross Section -100.0 To 9999. %



40 Incident Energy (eV) 54-Xe-129m

MAT 5441 MT= 80 (n, n') Level 54-Xe-129m
 Cross Section -100.0 To 9999. %



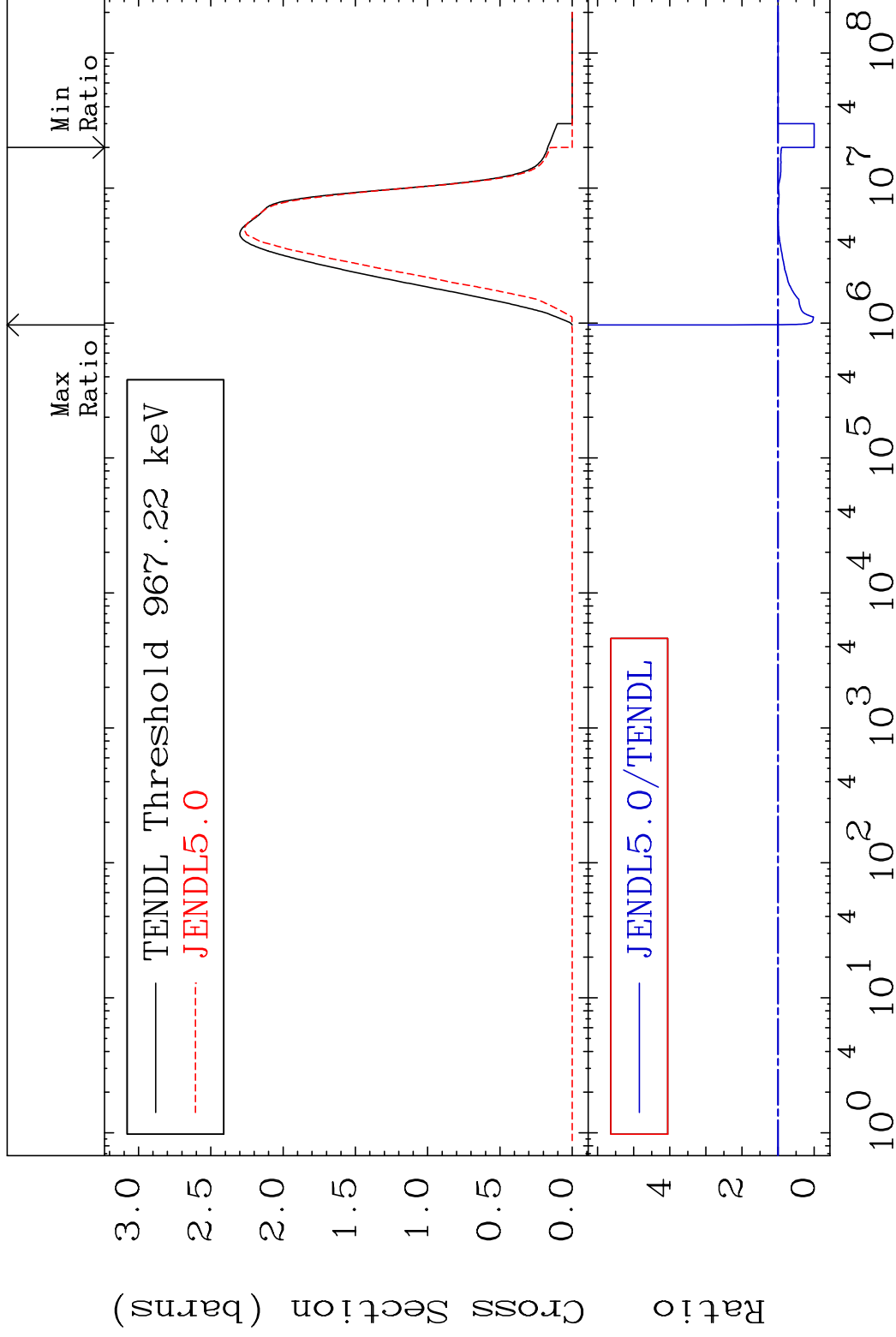
41 Incident Energy (eV) 54-Xe-129m

MAT 5441

(n, n') Continuum

54-Xe-129m

Cross Section -100.0 To 261.6 %



42

Incident Energy (eV)

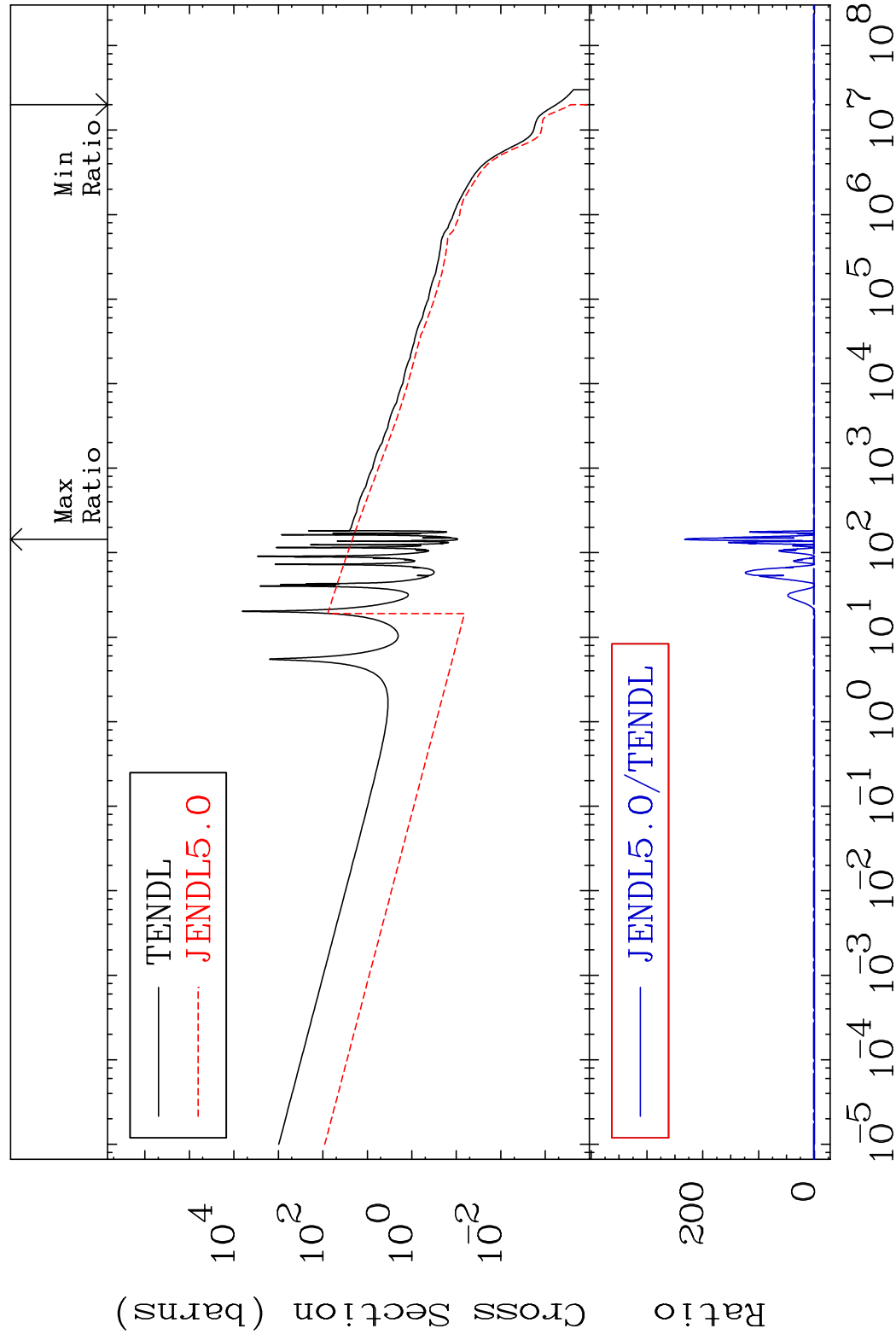
54-Xe-129m

MAT 5441

54-Xe-129m

(n, γ)

Cross Section -100.0 To 9999. %



43

Incident Energy (eV)

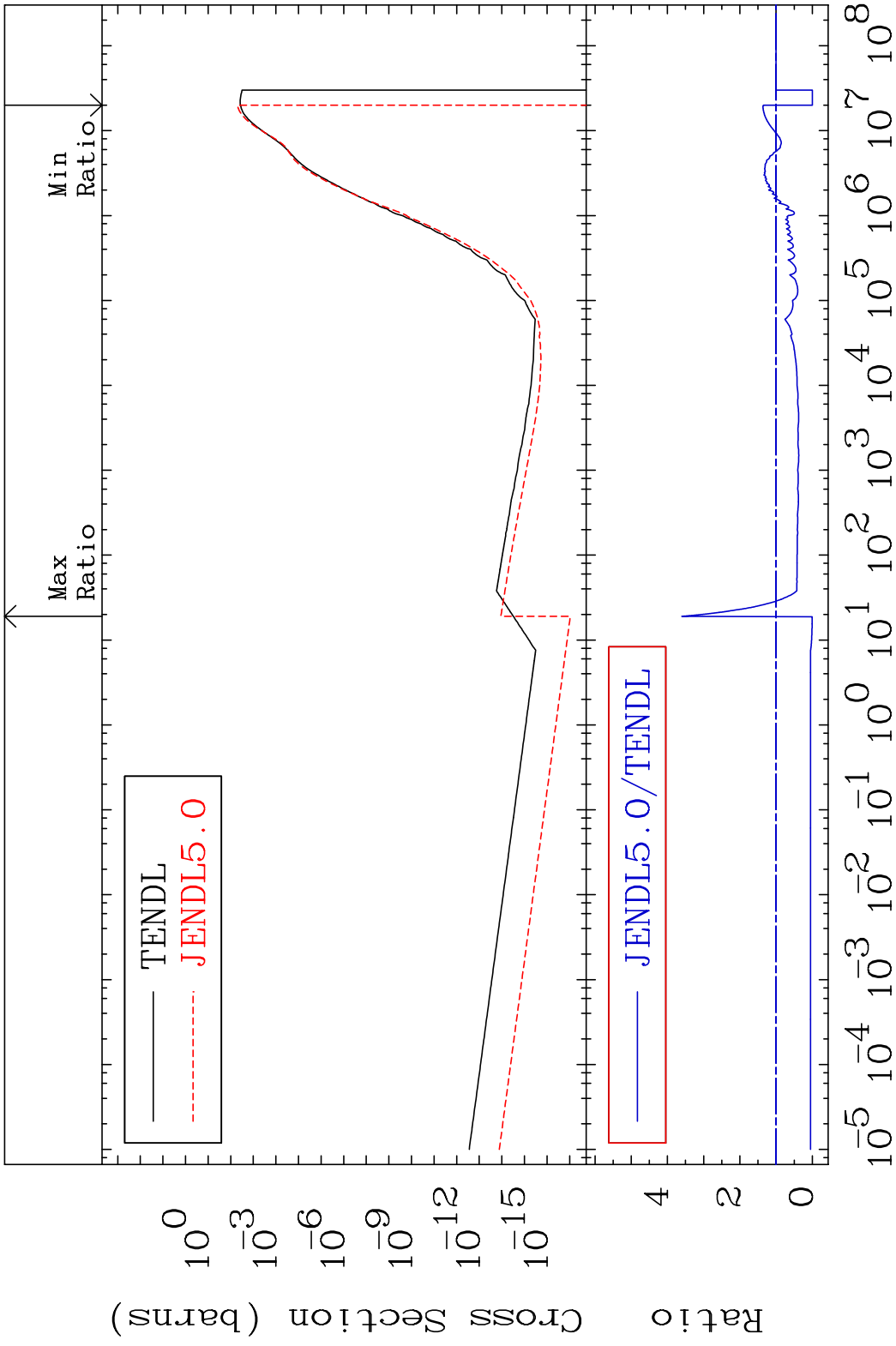
54-Xe-129m

MAT 5441

(n, p)

54-Xe-129m

Cross Section -100.0 To 260.5 %



44

Incident Energy (eV)

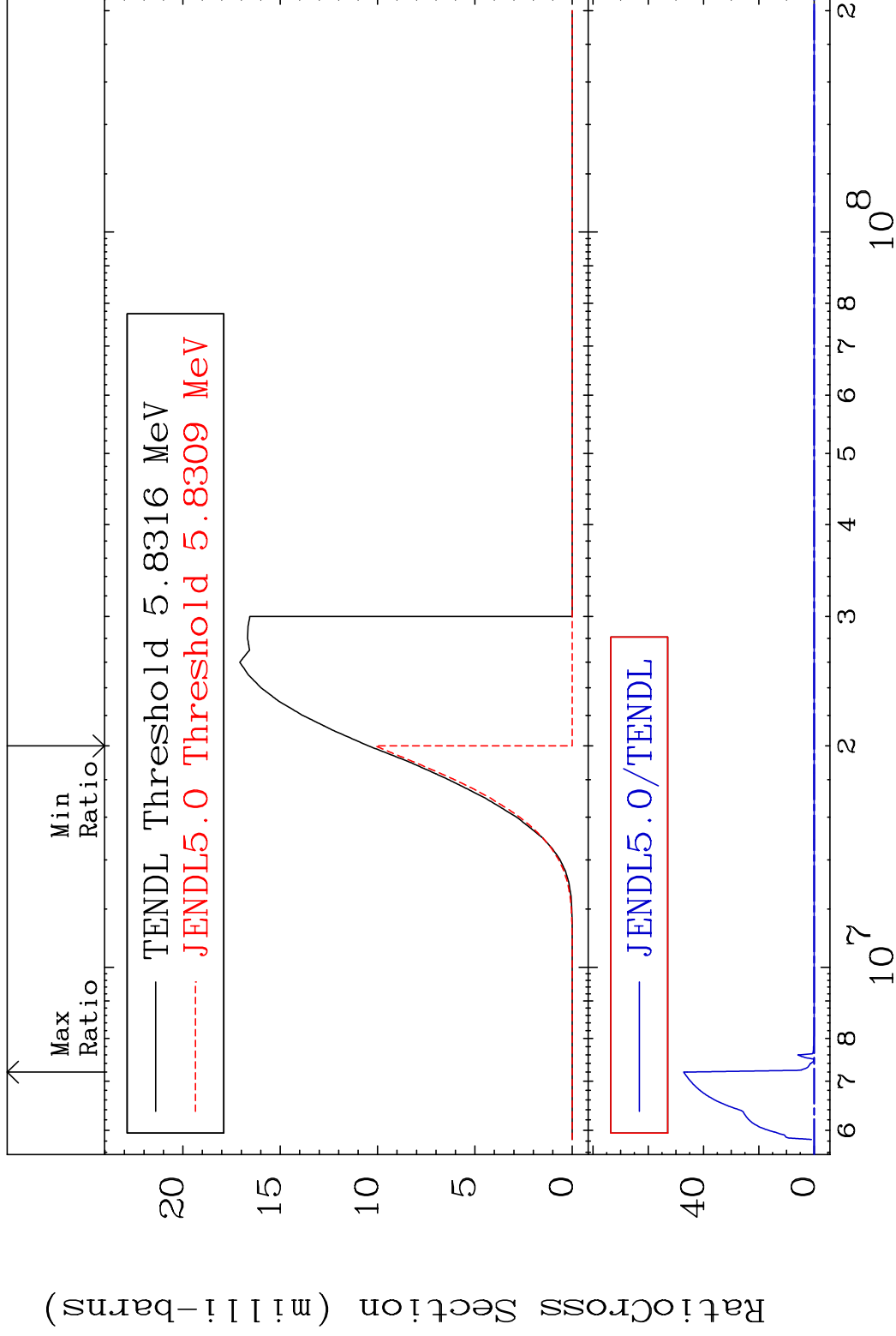
54-Xe-129m

MAT 5441

(n, d)

54-Xe-129m

Cross Section -100.0 To 9999. %



45

Incident Energy (eV)

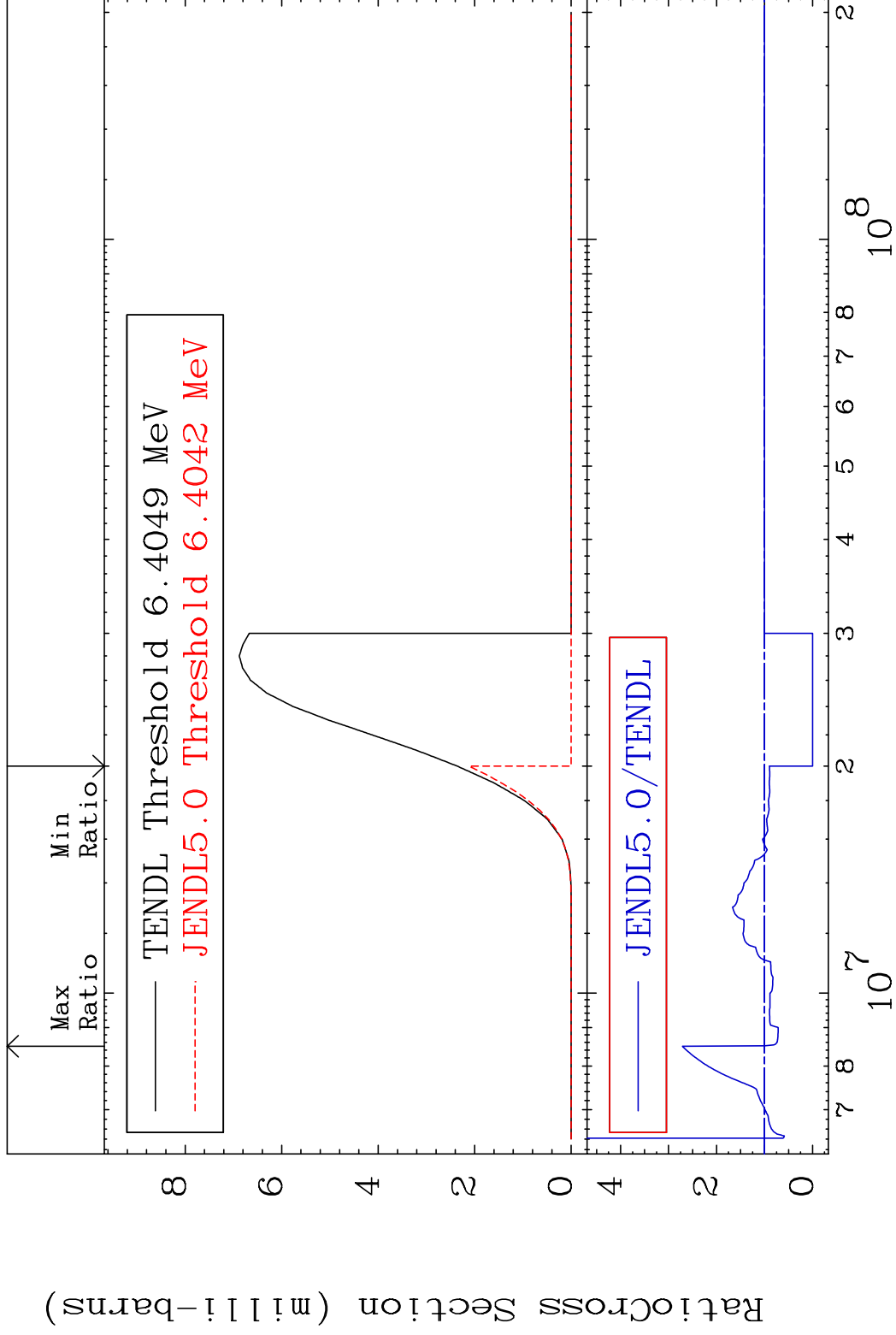
54-Xe-129m

MAT 5441

(n, t)

54-Xe-129m

Cross Section -100.0 To 171.3 %



46

Incident Energy (eV)

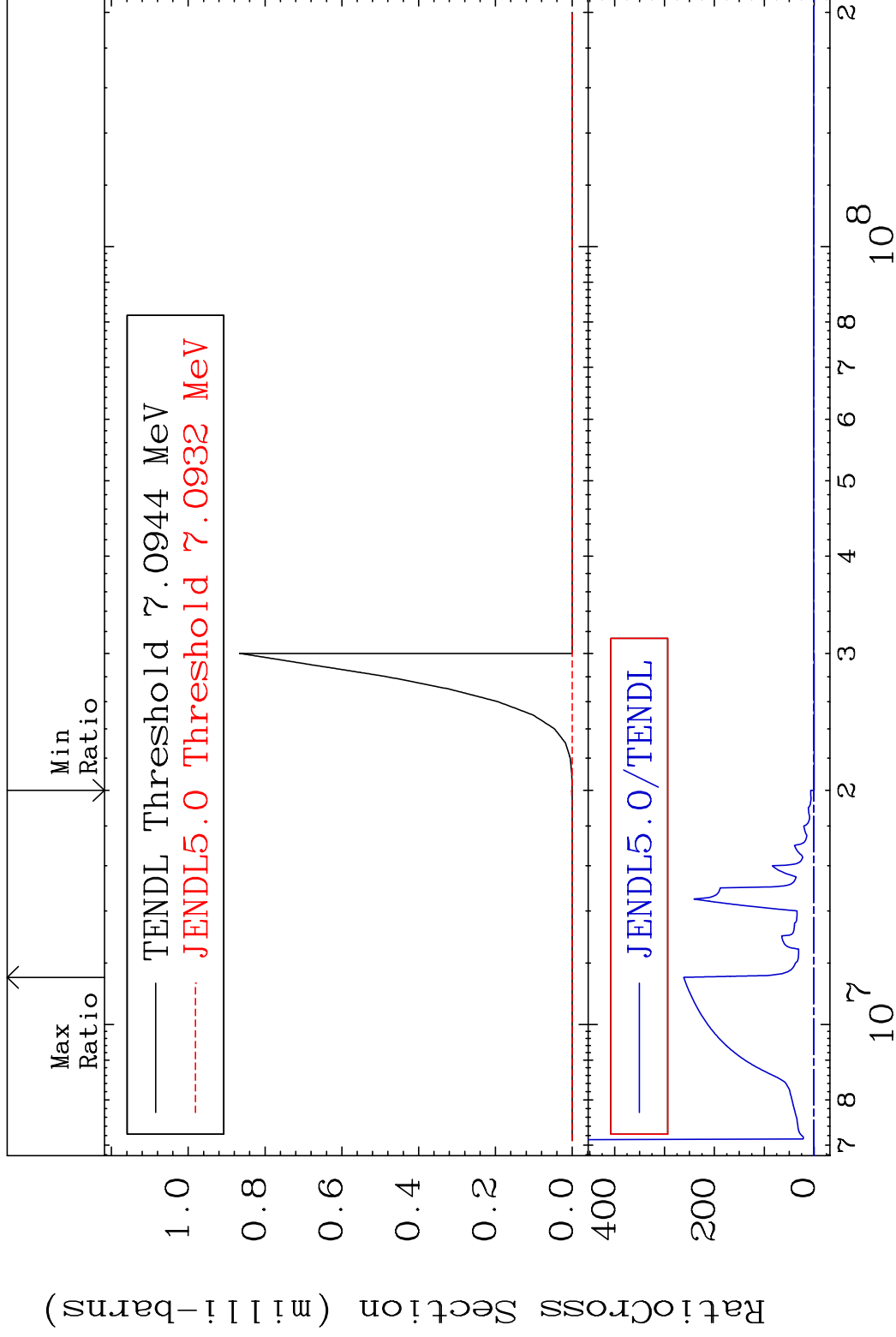
54-Xe-129m

MAT 5441

(n, He-3)

54-Xe-129m

Cross Section -100.0 To 9999. %



47

Incident Energy (eV)

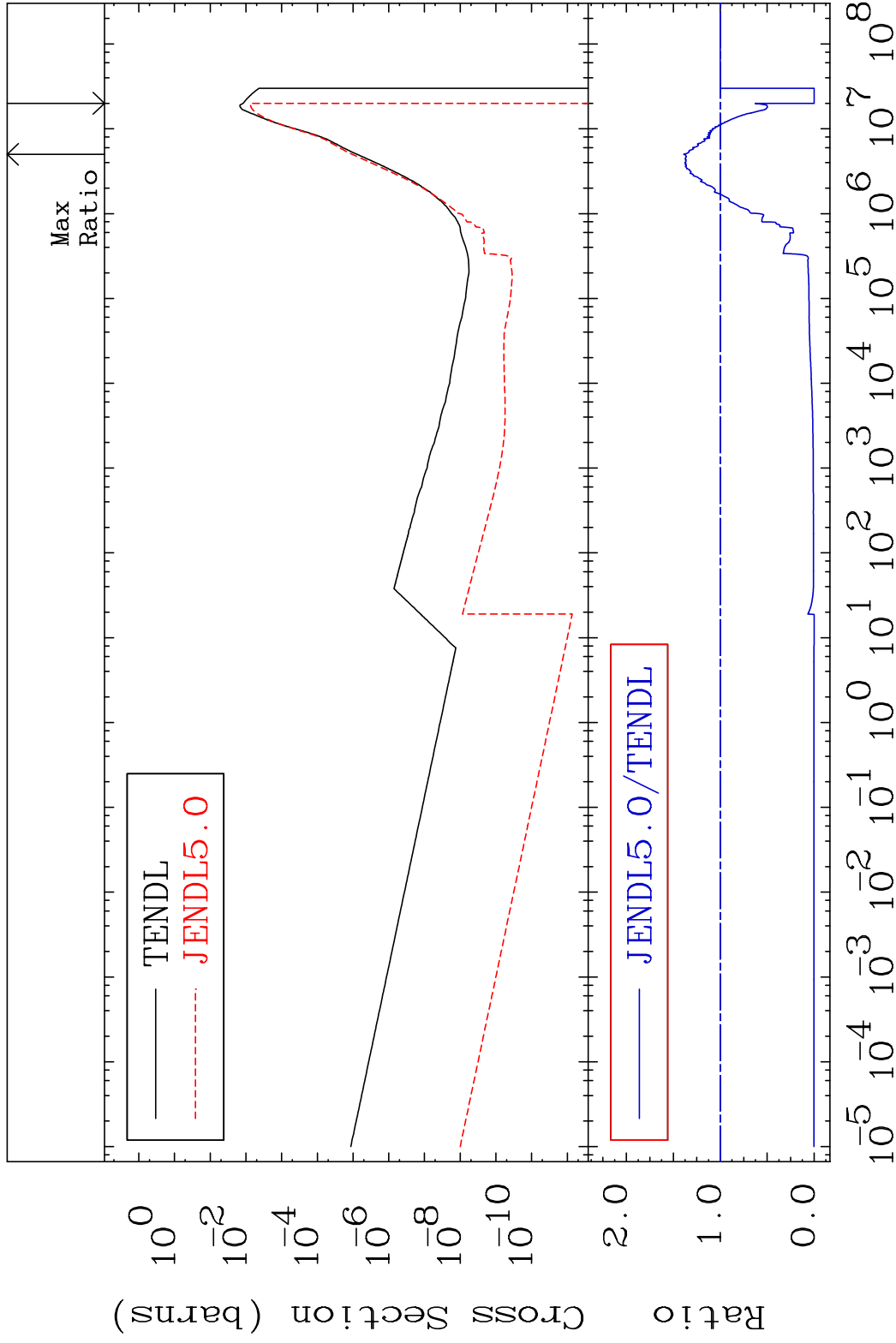
54-Xe-129m

MAT 5441

(n, α)

54-Xe-129m

Cross Section -100.0 To 38.98 %



48

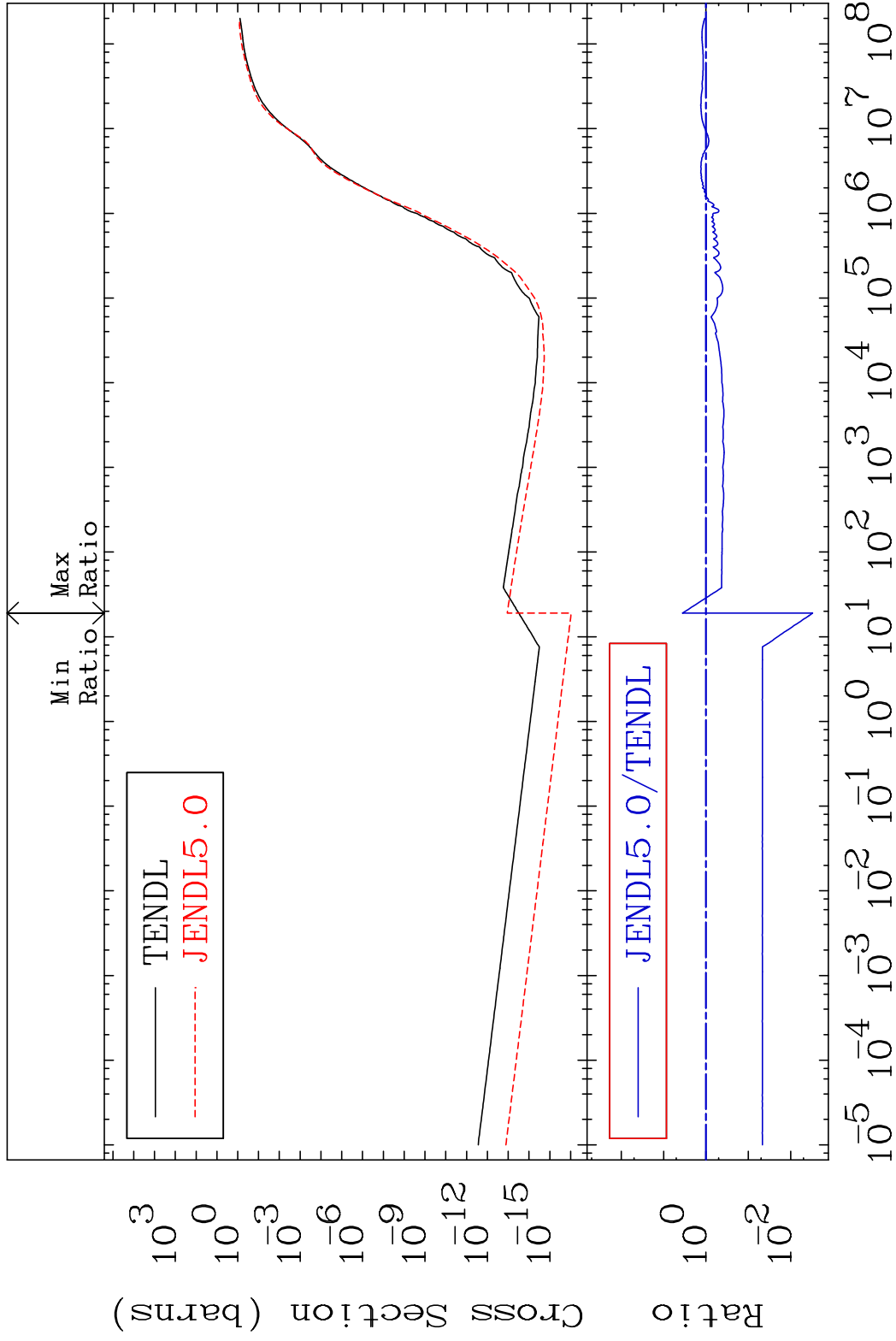
Incident Energy (eV)

54-Xe-129m

MAT 5441

Hydrogen Production
Cross Section -99.69 To 260.5 %

54-Xe-129m

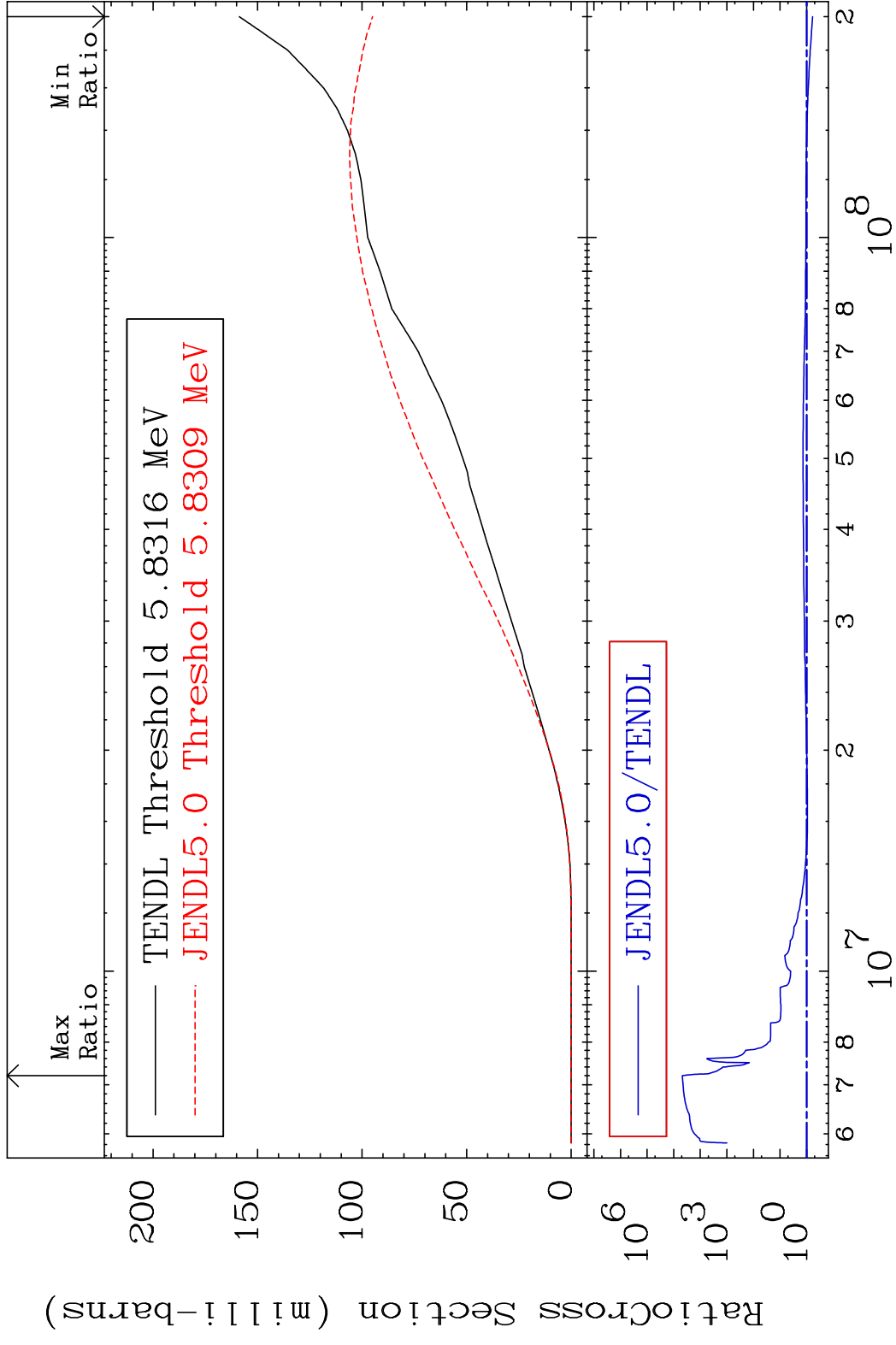


49

Incident Energy (eV)

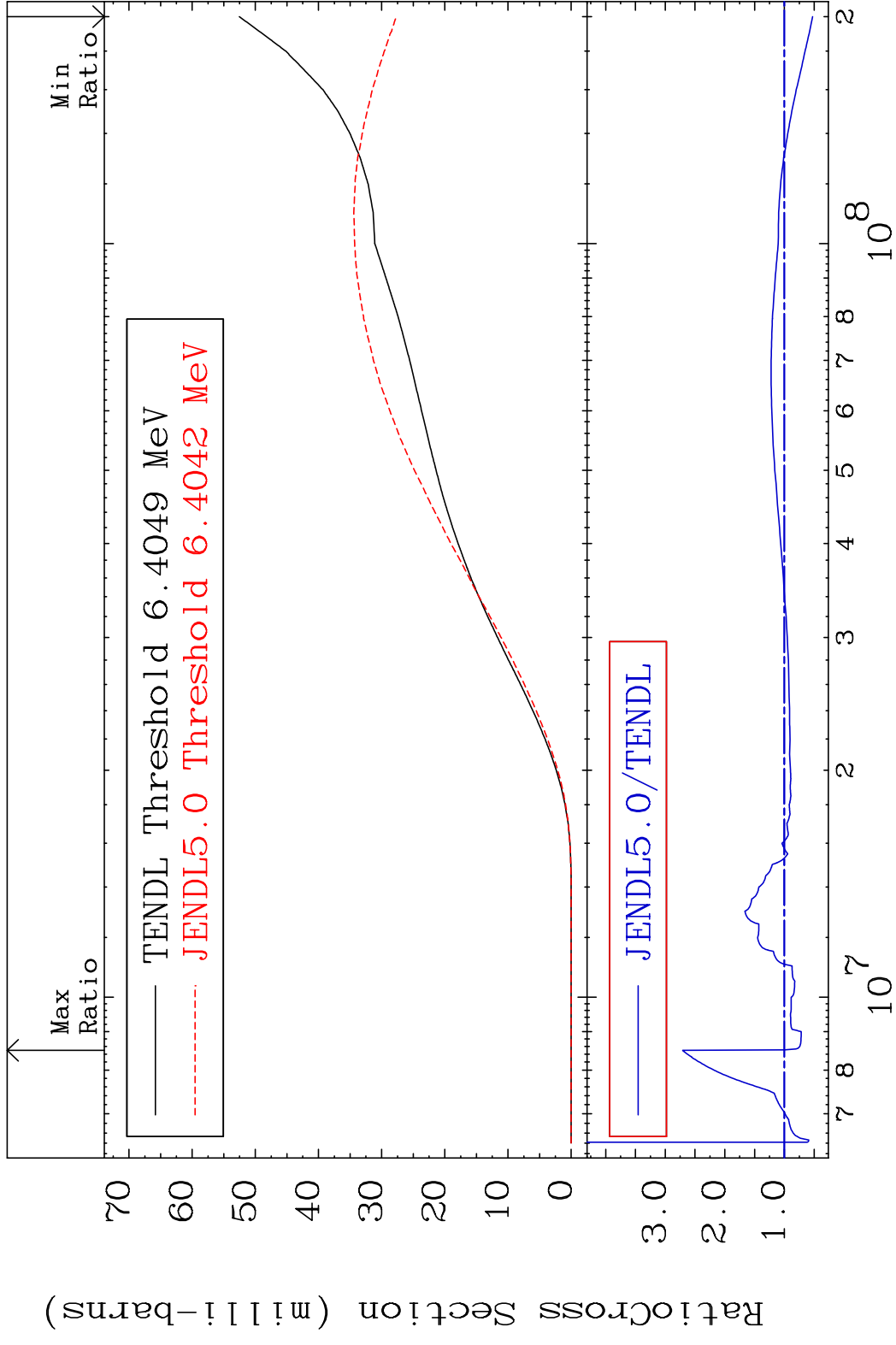
54-Xe-129m

MAT 5441 Deuterium Production 54-Xe-129m
 Cross Section -40.15 To 9999. %



50 Incident Energy (eV) 54-Xe-129m

MAT 5441 Tritium Production 54-Xe-129m
 Cross Section -47.26 To 171.3 %

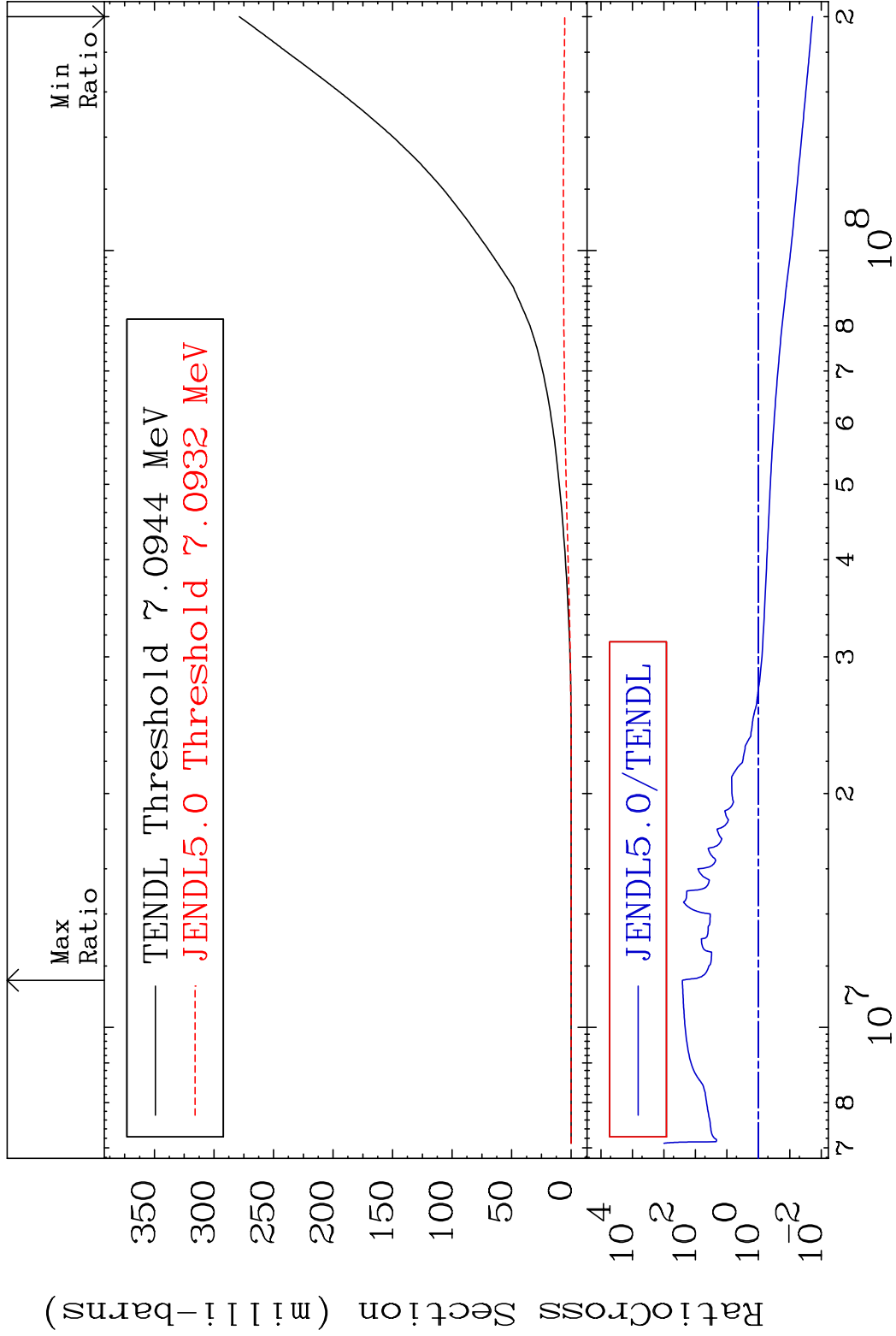


MAT 5441

He-3 Production

54-Xe-129m

Cross Section -98.09 To 9999. %

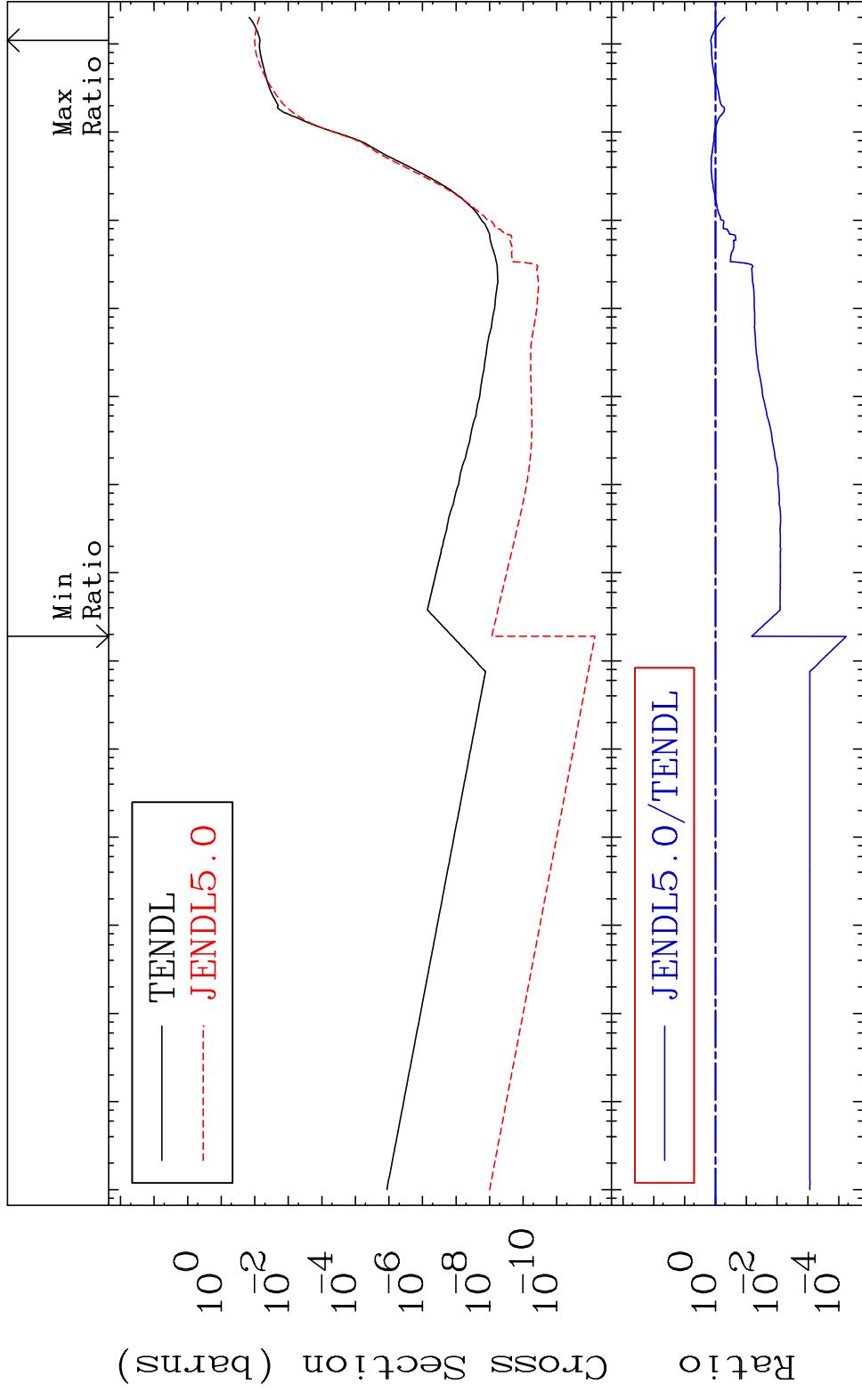


52

Incident Energy (eV)

54-Xe-129m

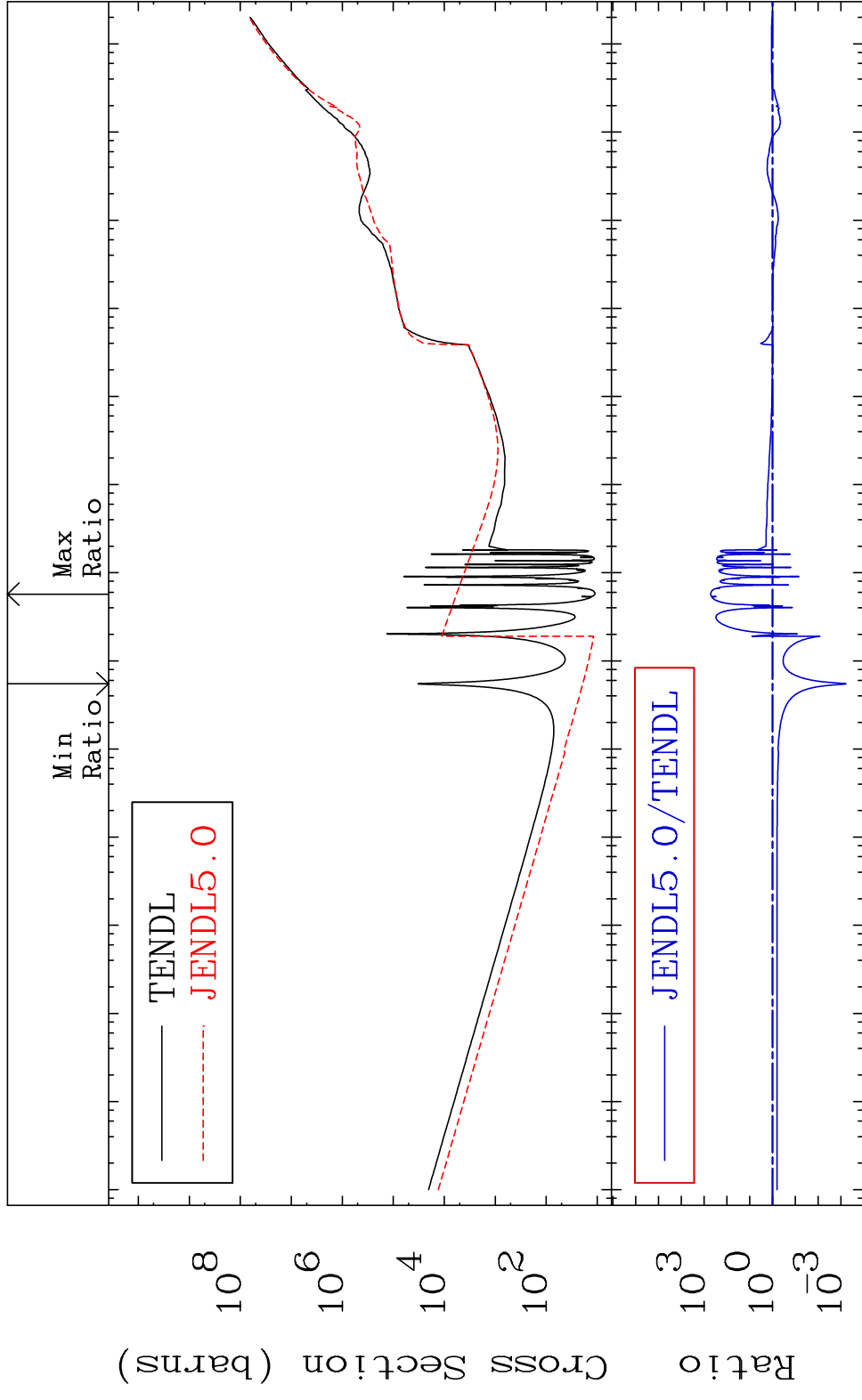
MAT 5441 He-4 Production 54-Xe-129m
 Cross Section -99.99 To 42.79 %



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

53 Incident Energy (eV) 54-Xe-129m

MAT 5441 Kerma total (eV-barns) 54-Xe-129m
 Cross Section -99.94 To 9999. %

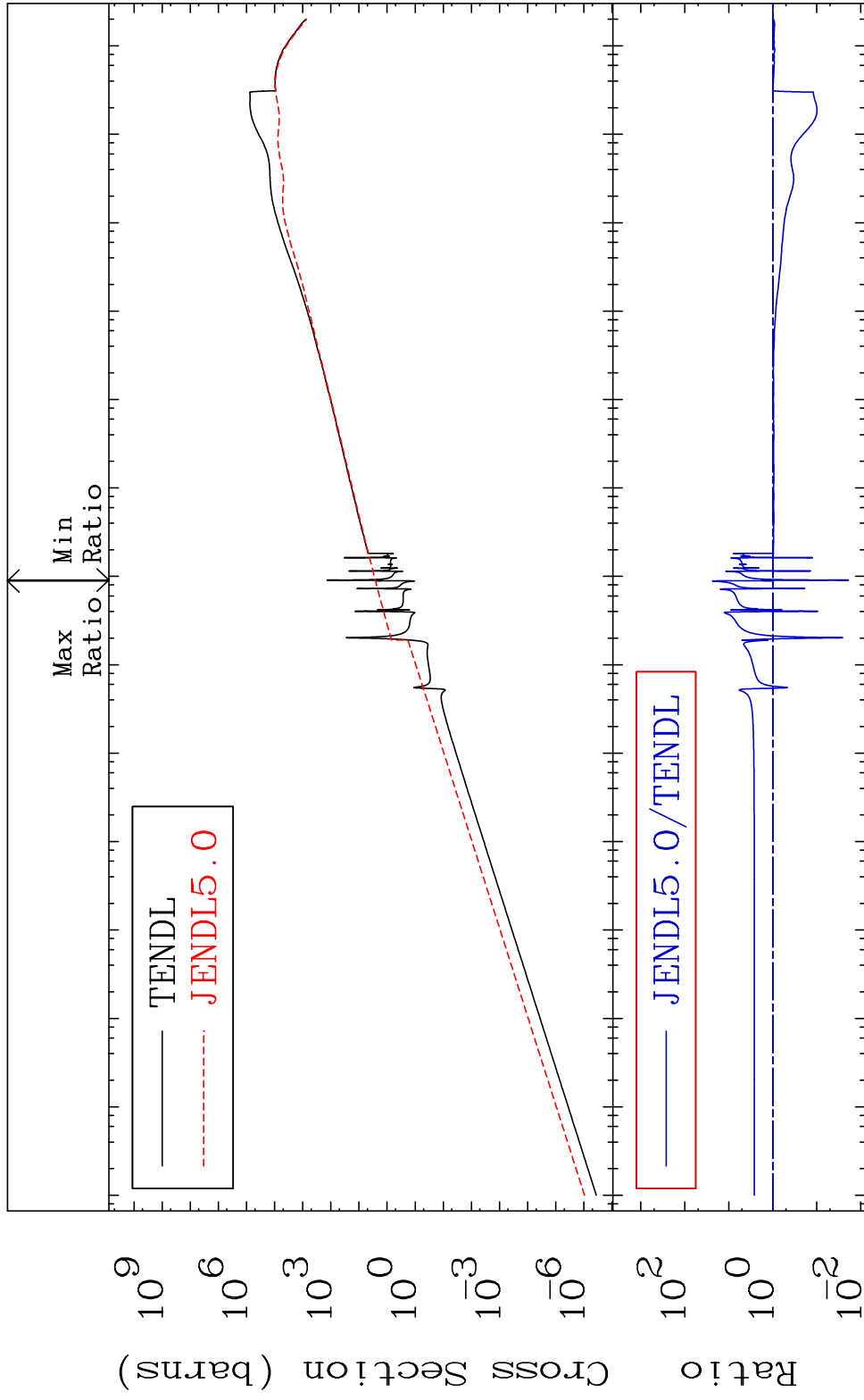


54 Incident Energy (eV) 54-Xe-129m

MAT 5441

Kerma elastic
Cross Section

54-Xe-129m
-98.08 To 2261. %

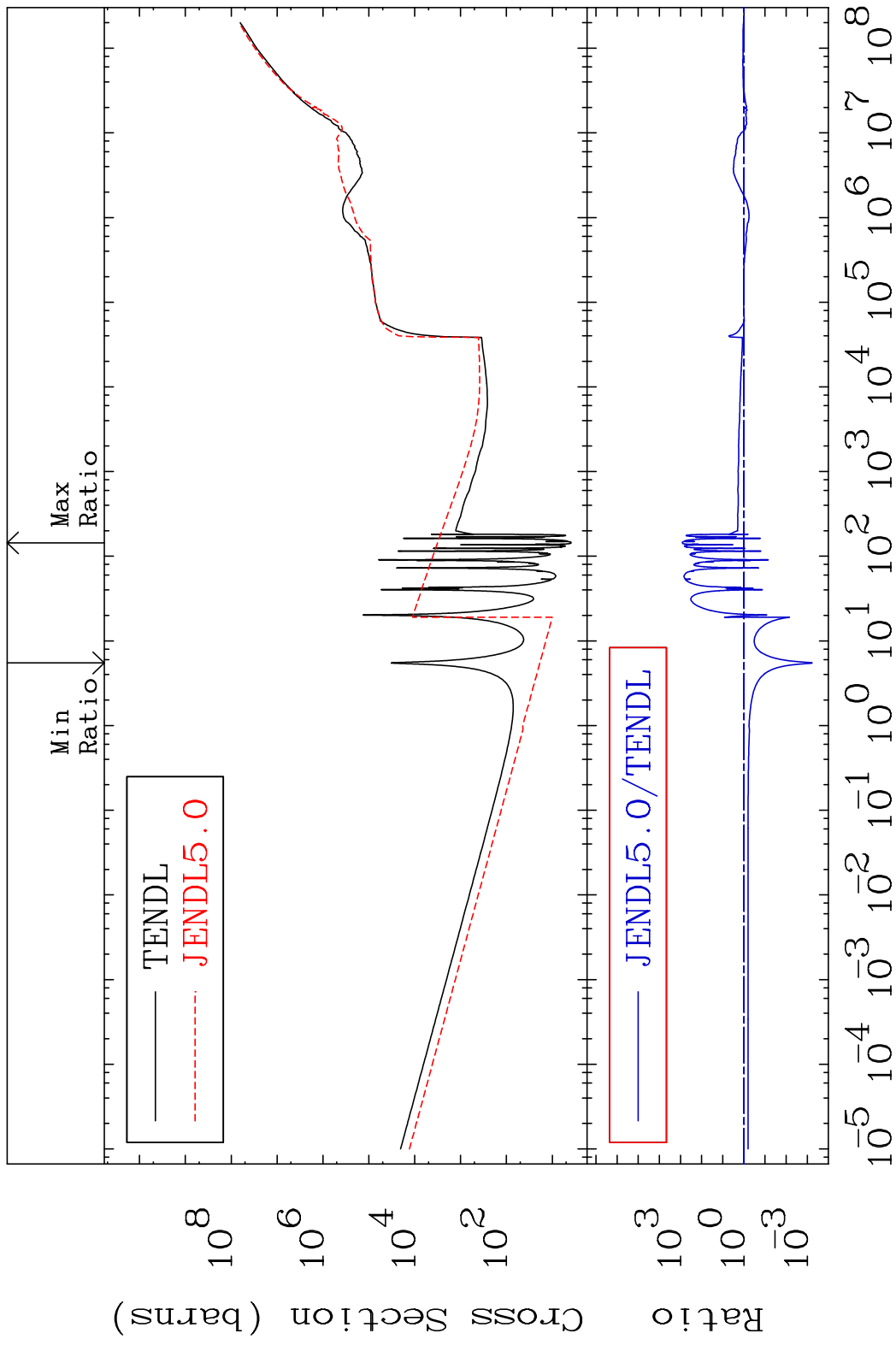


55

Incident Energy (eV)

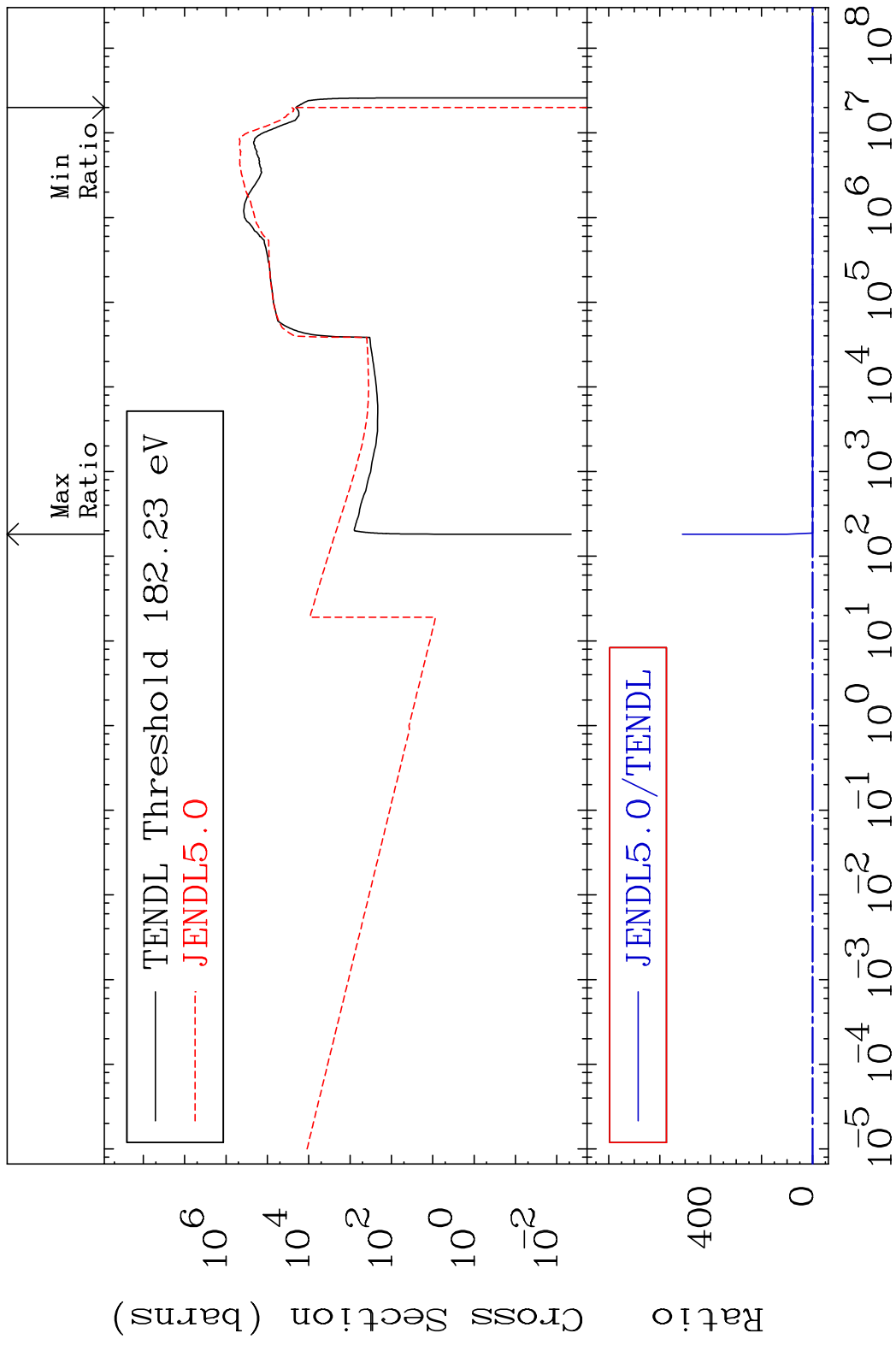
54-Xe-129m

MAT 5441 Kerma non-elastic (all but mt2) 54-Xe-129m
 Cross Section -99.94 To 9999. %



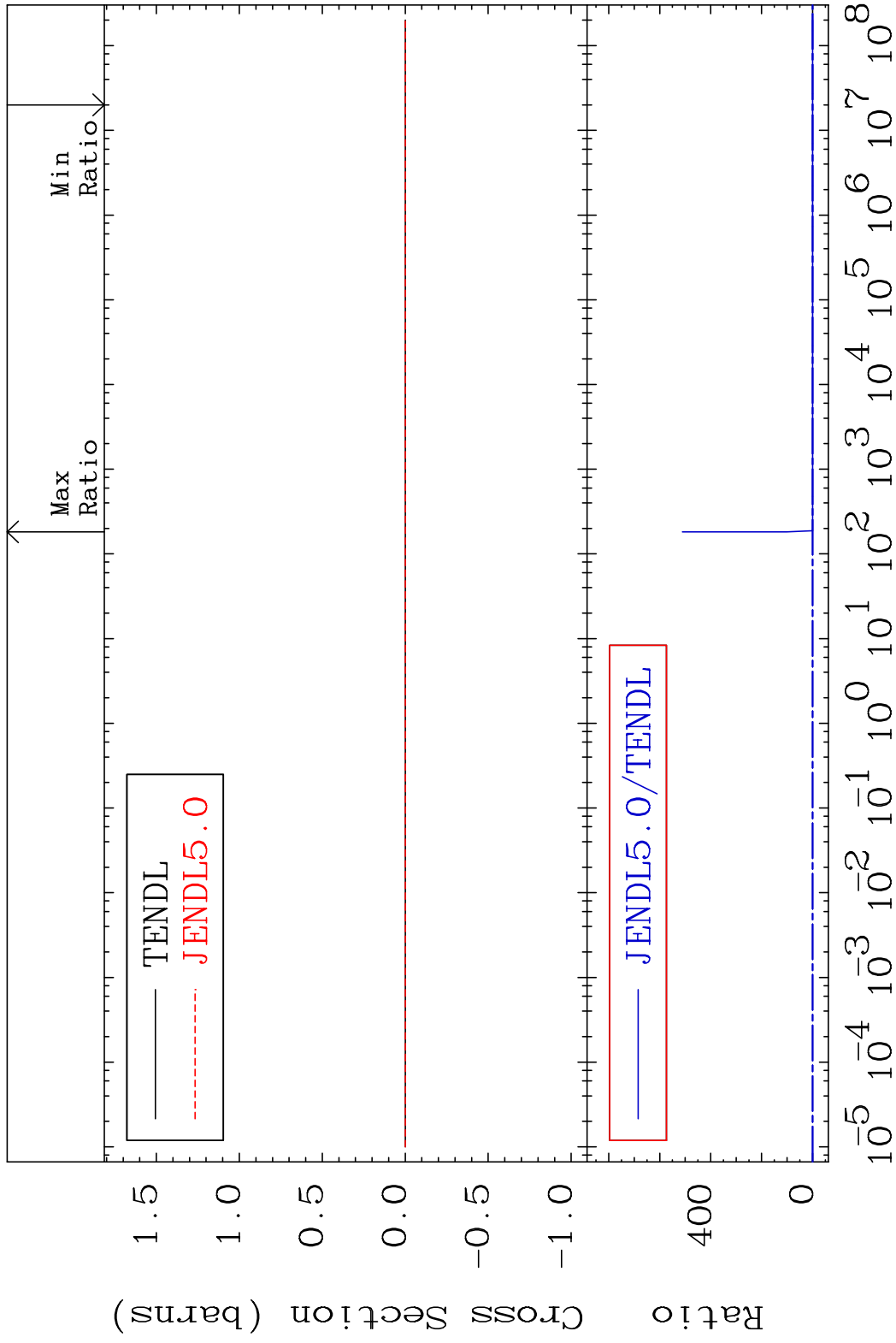
56 Incident Energy (eV) 54-Xe-129m

MAT 5441 Kerma inelastic (mt51-91) 54-Xe-129m
 Cross Section -100.0 To 9999. %

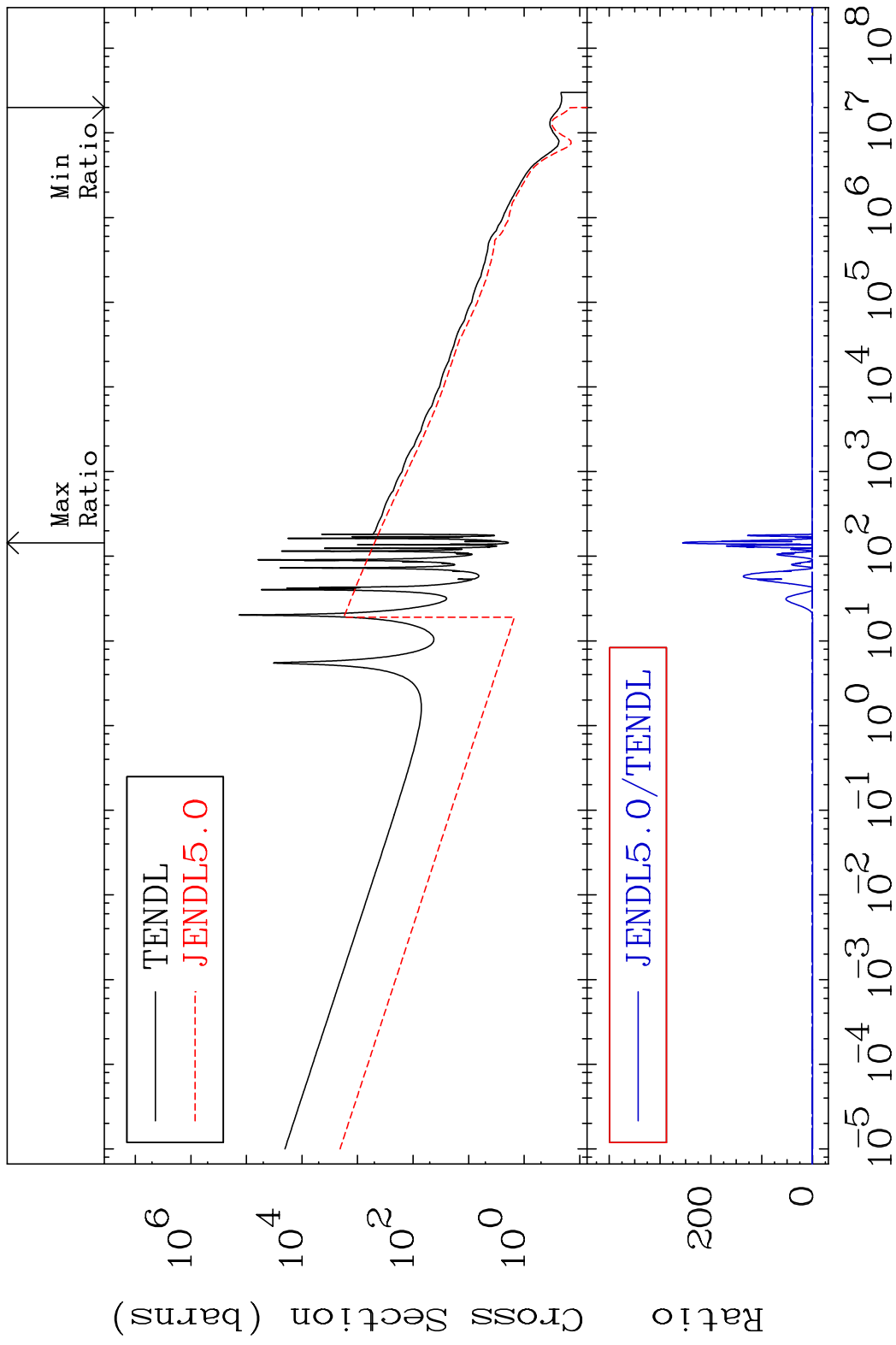


57 Incident Energy (eV) 54-Xe-129m

MAT 5441 Kerma fission (mt18 or mt19-20-21-35)-Xe-129m
 Cross Section -100.0 To 9999. %

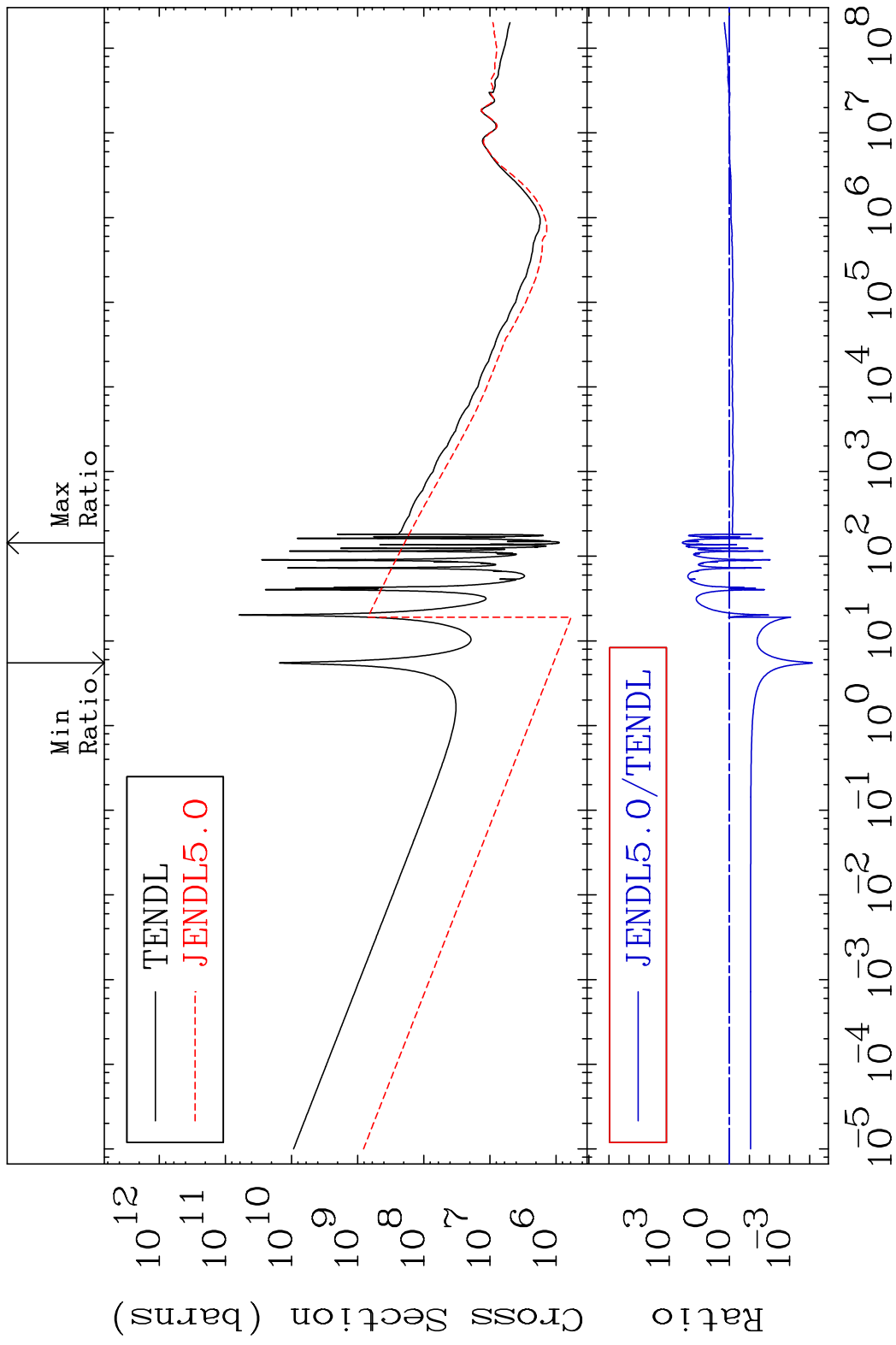


MAT 5441 Kerma capture (mt102) 54-Xe-129m
 Cross Section -100.0 To 9999. %



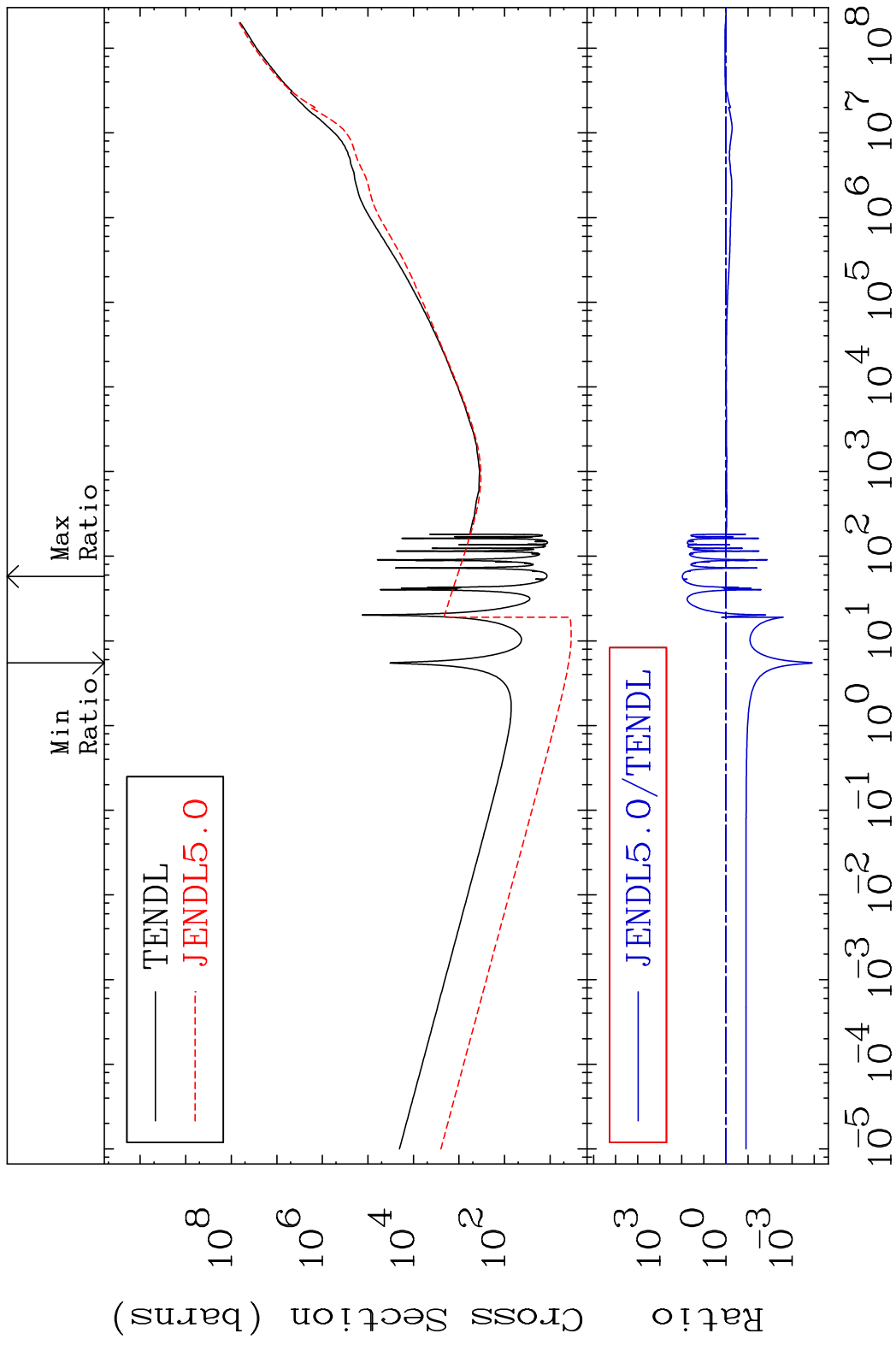
59 Incident Energy (eV) 54-Xe-129m

MAT 5441 Total photon (eV-barns) 54-Xe-129m
 Cross Section -99.99 To 9999. %

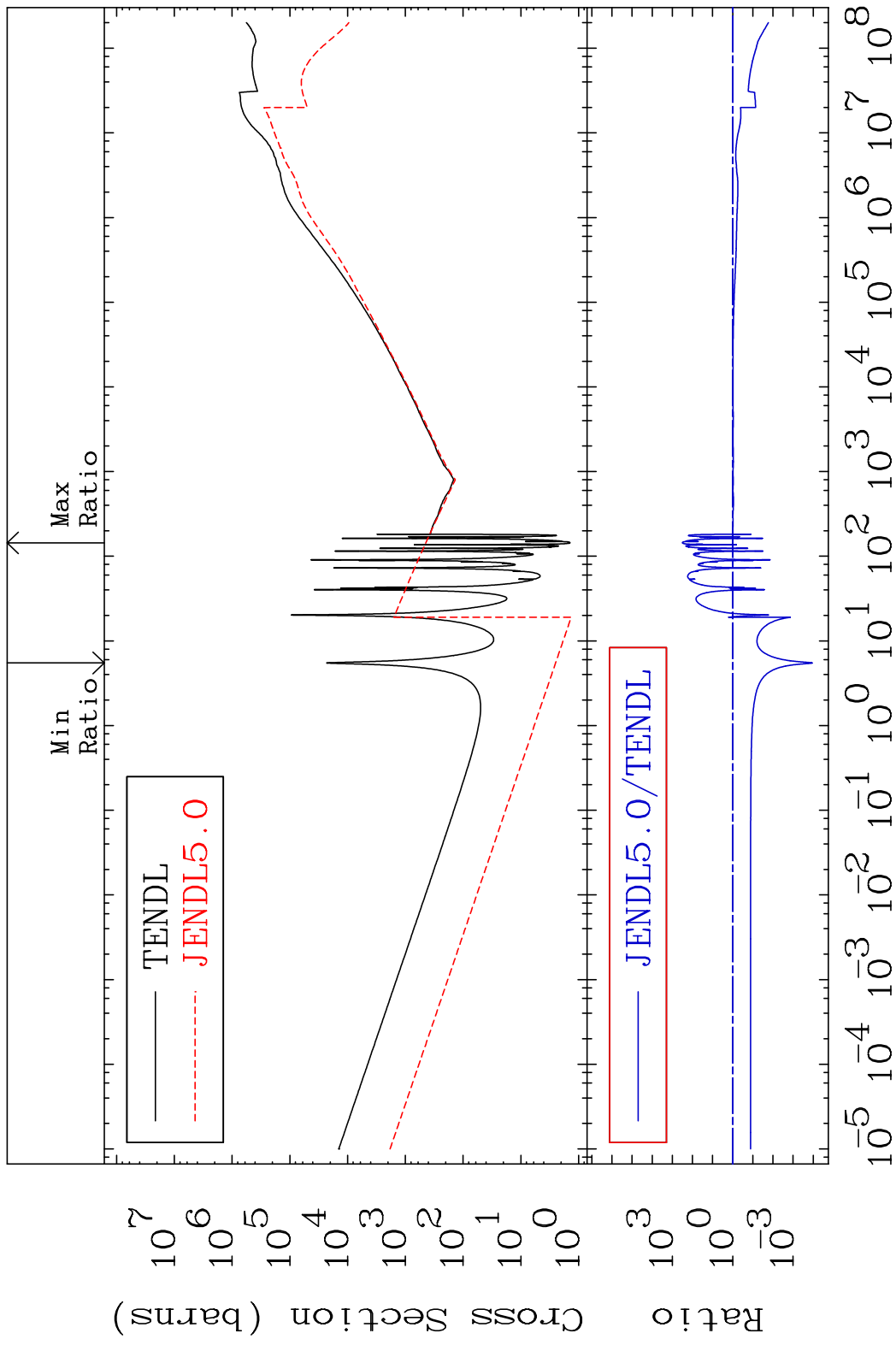


60 Incident Energy (eV) 54-Xe-129m

MAT 5441 Total kinematic kerma (high limit)54-Xe-129m
 Cross Section -99.99 To 9356. %

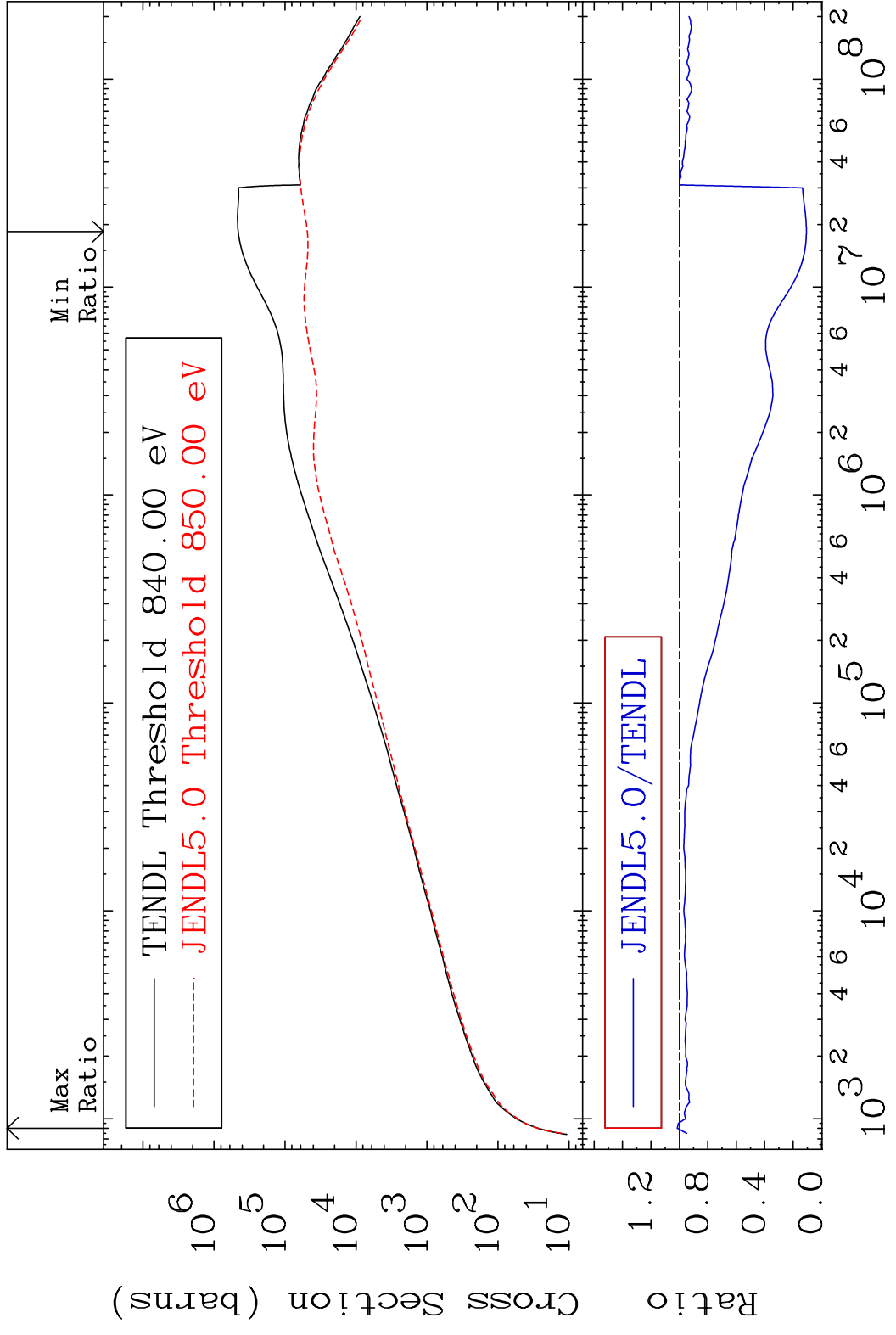


MAT 5441 Dpa total (eV-barns) 54-Xe-129m
 Cross Section -99.99 To 9999. %

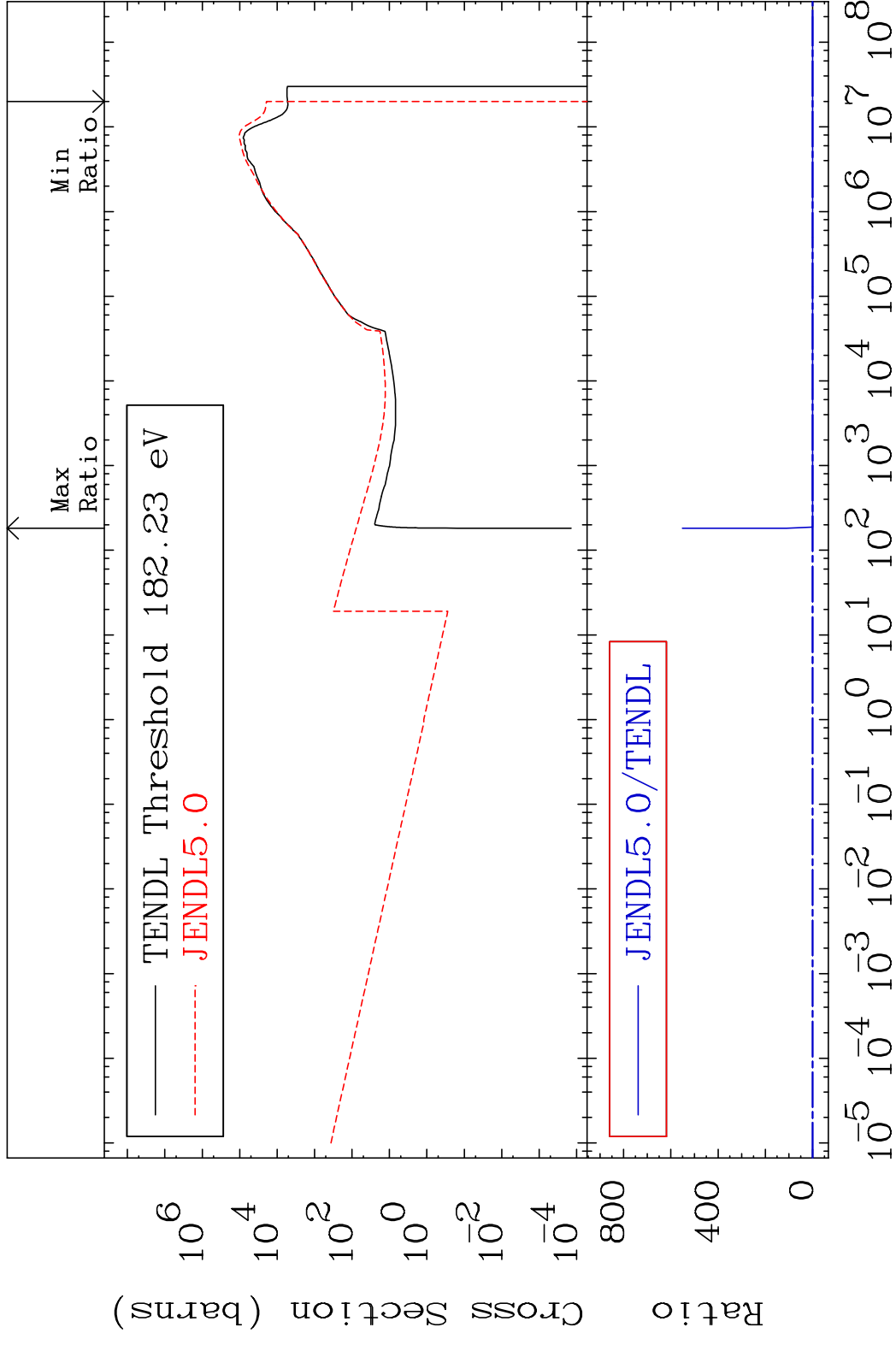


62 Incident Energy (eV) 54-Xe-129m

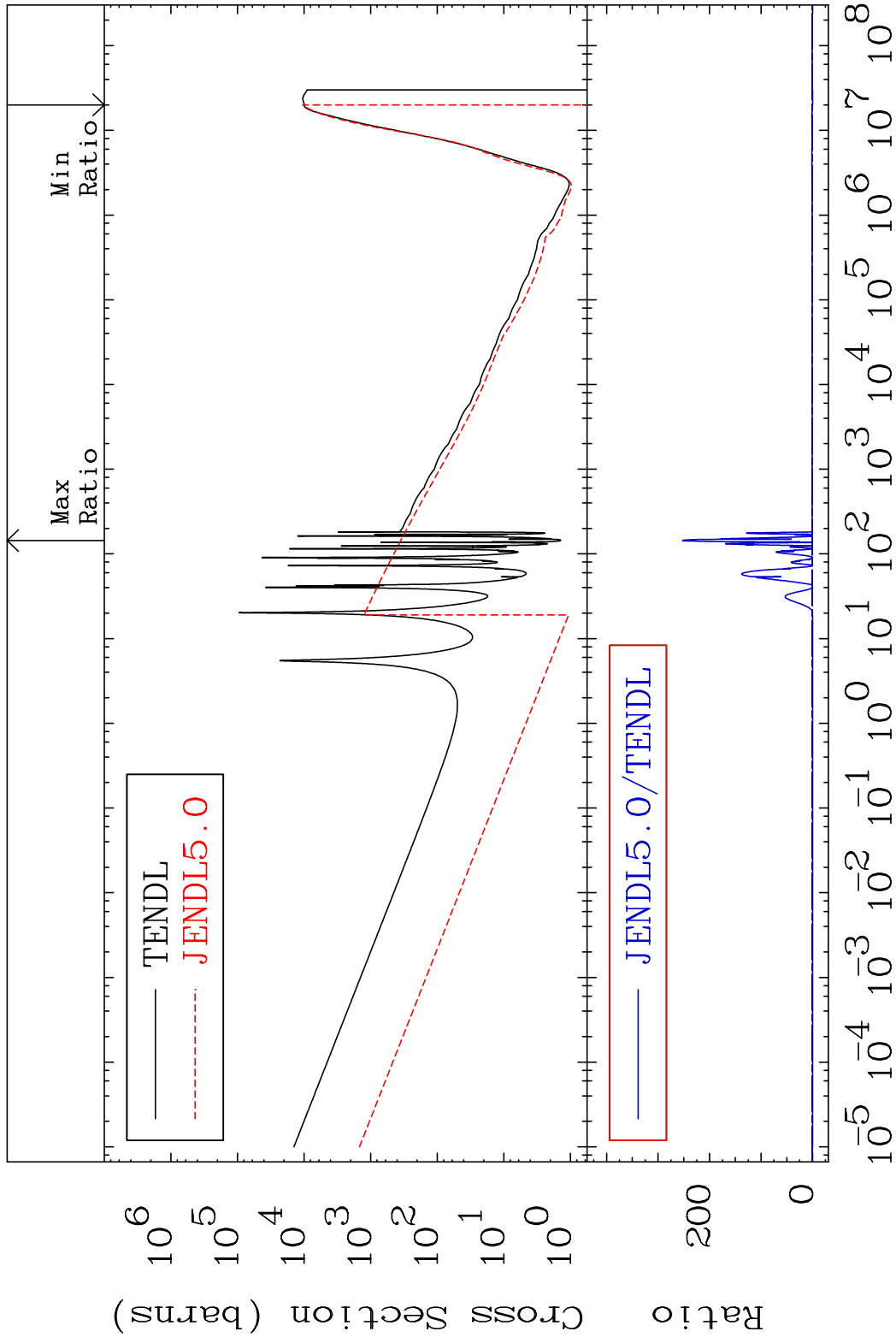
MAT 5441 Dpa elastic (mt2) 54-Xe-129m
 Cross Section -89.37 To 1.554 %



MAT 5441 Dpa inelastic (mt51-91) 54-Xe-129m
 Cross Section -100.0 To 9999. %

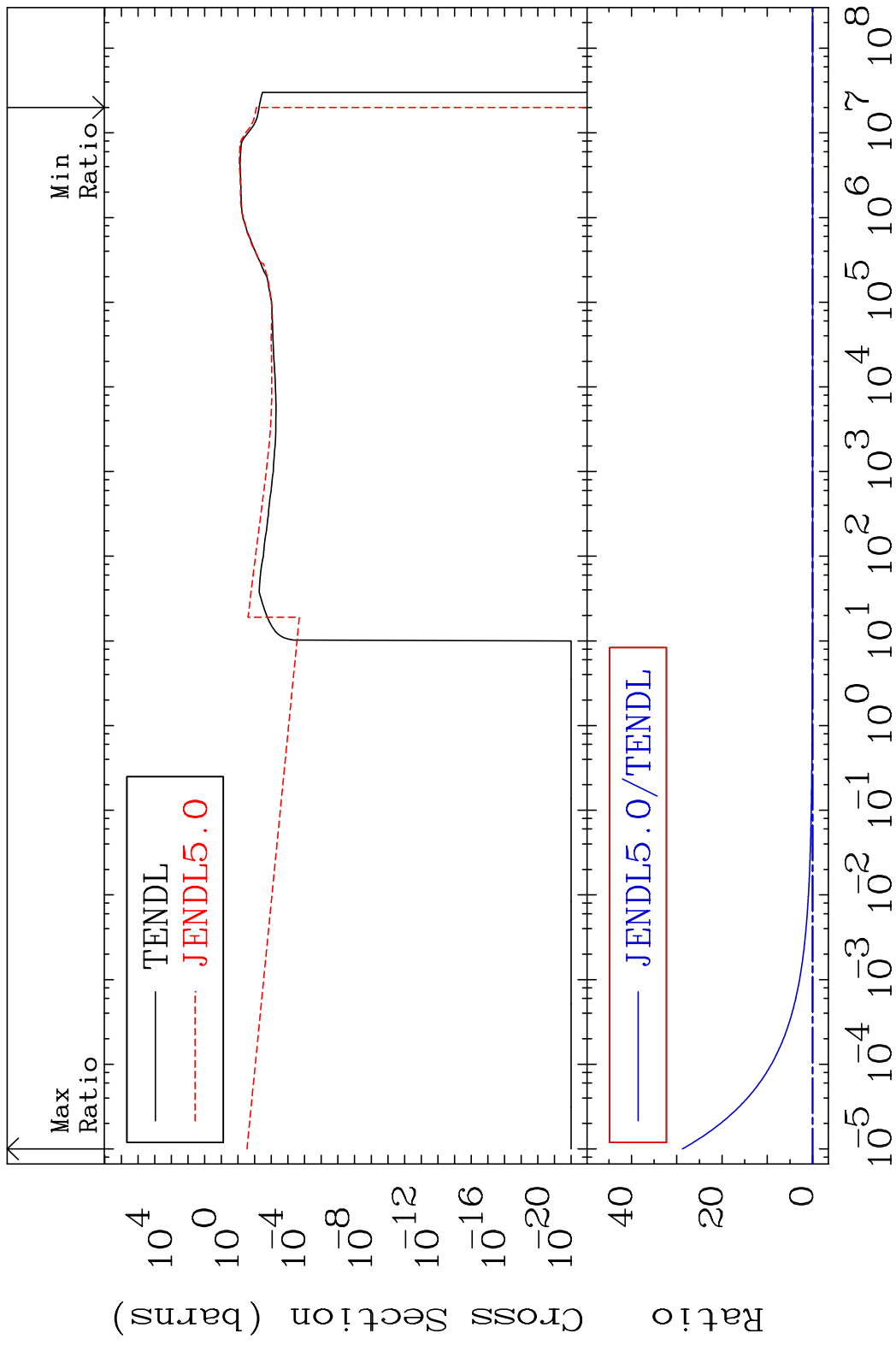


MAT 5441 Dpa disappearance (mt102 -120) 54-Xe-129m
 Cross Section -100.0 To 9999. %



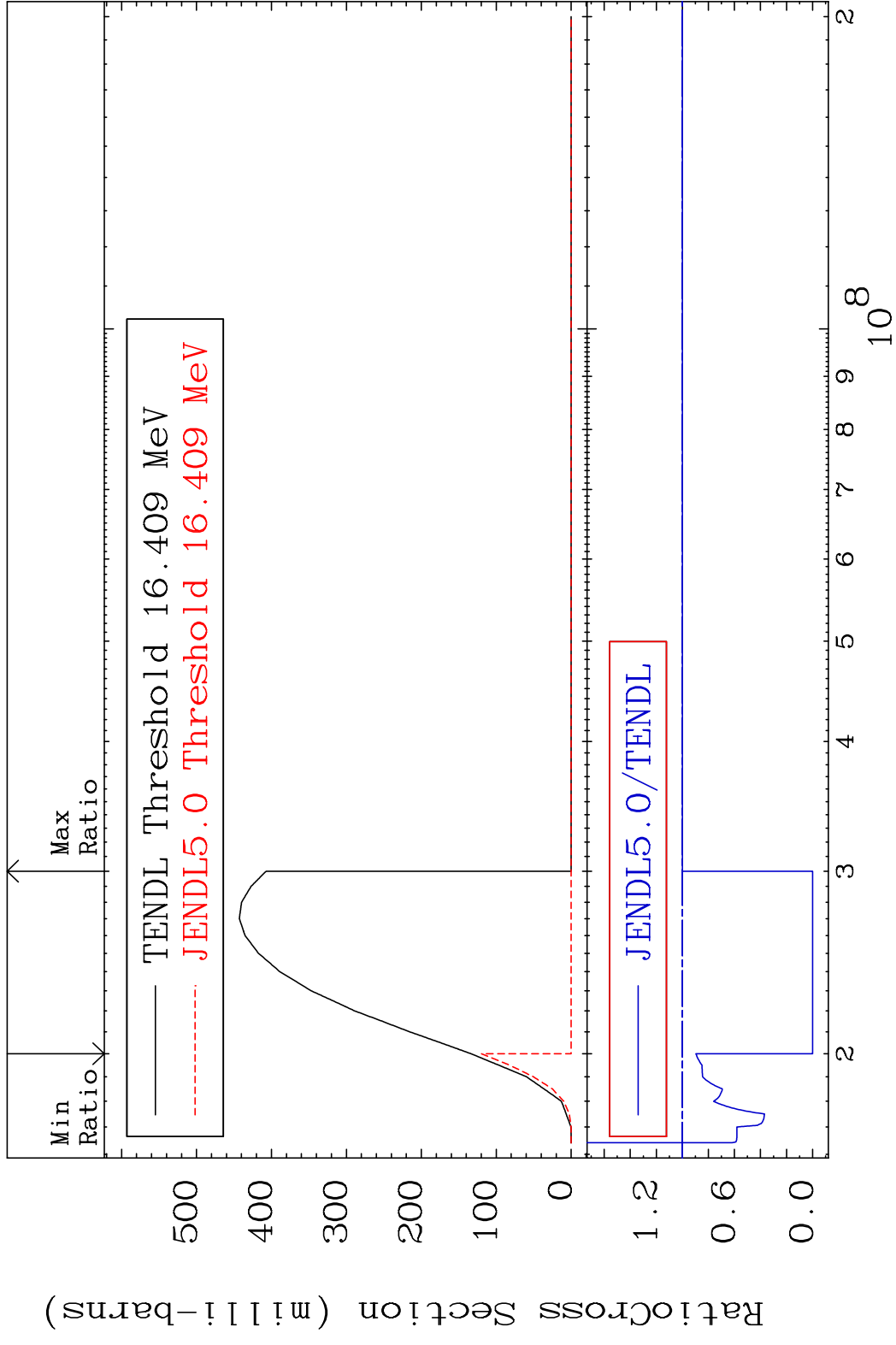
65 Incident Energy (eV) 54-Xe-129m

MAT 5441 Inelastic:54-Xe-129g 54-Xe-129m
 Radionuclide Production Cross Section Ratio 9999. %

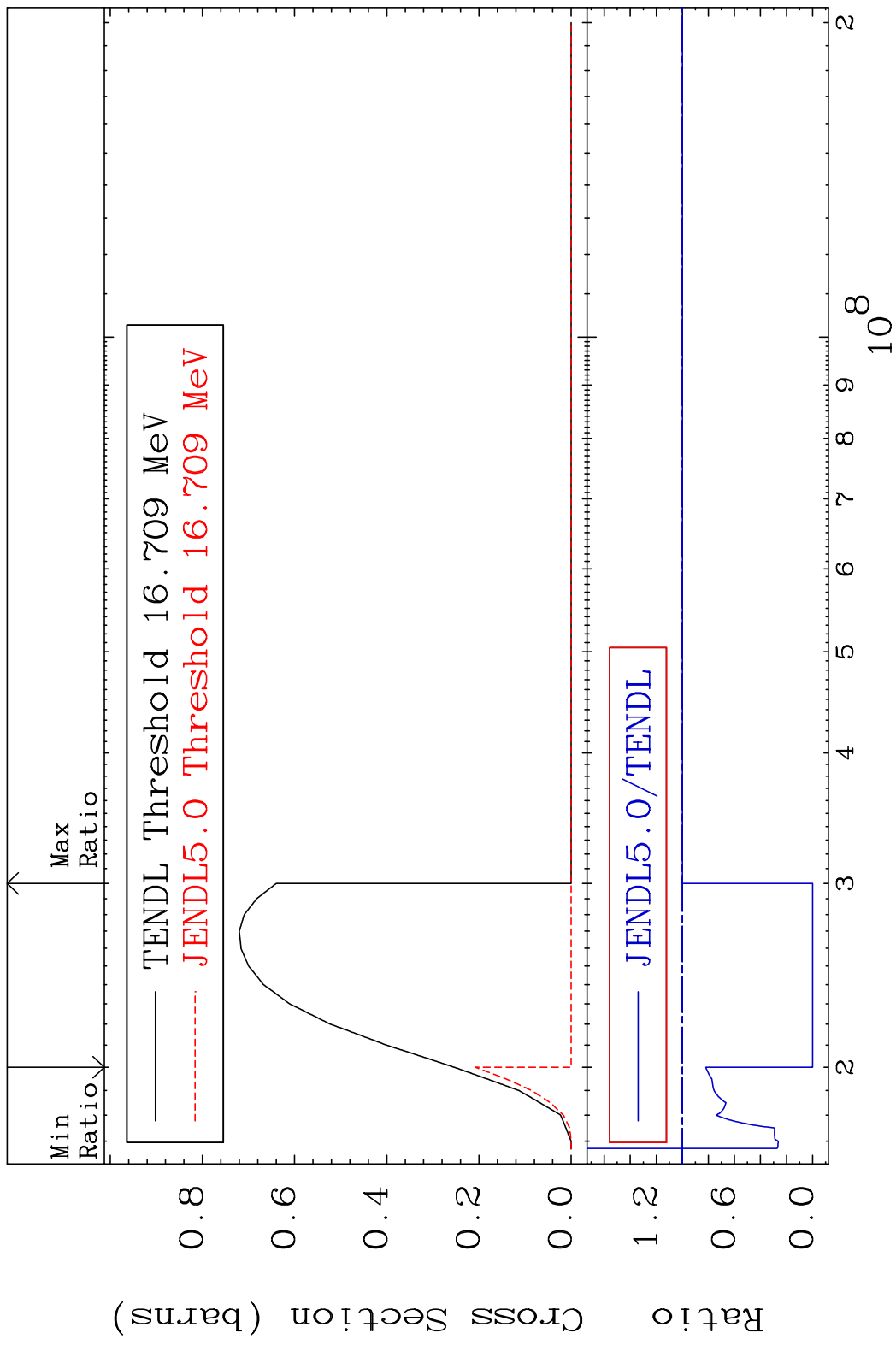


66 Incident Energy (eV) 54-Xe-129m

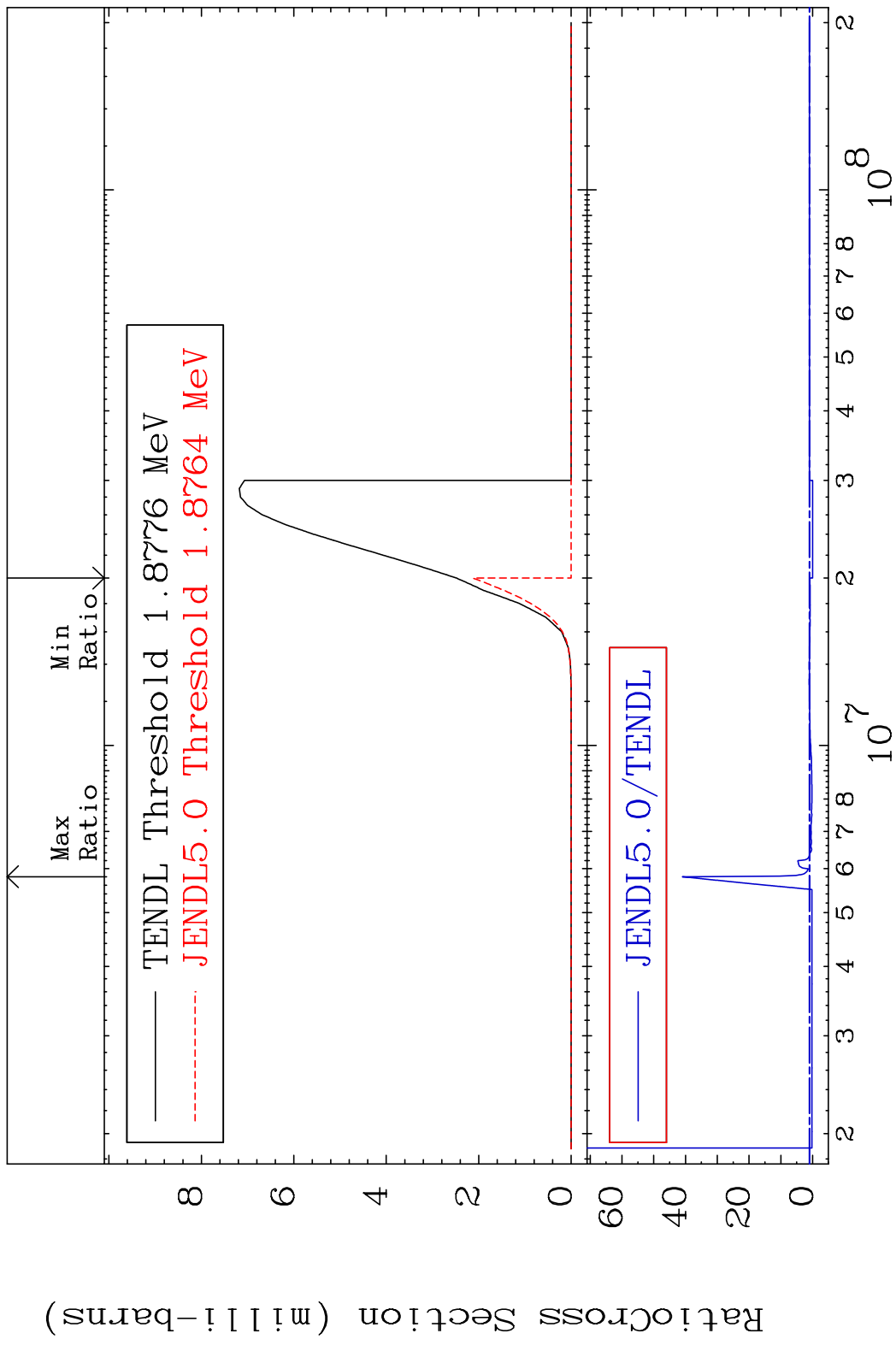
MAT 5441 (n,3n):54-Xe-127g 54-Xe-129m
 Radionuclide Production Cross Section 180.00 dth 0.000 %



MAT 5441 (n, 3n):54-Xe-127m2 54-Xe-129m
 Radionuclide Production Cross Section 180.000 barns
 Ratio 0.000 %

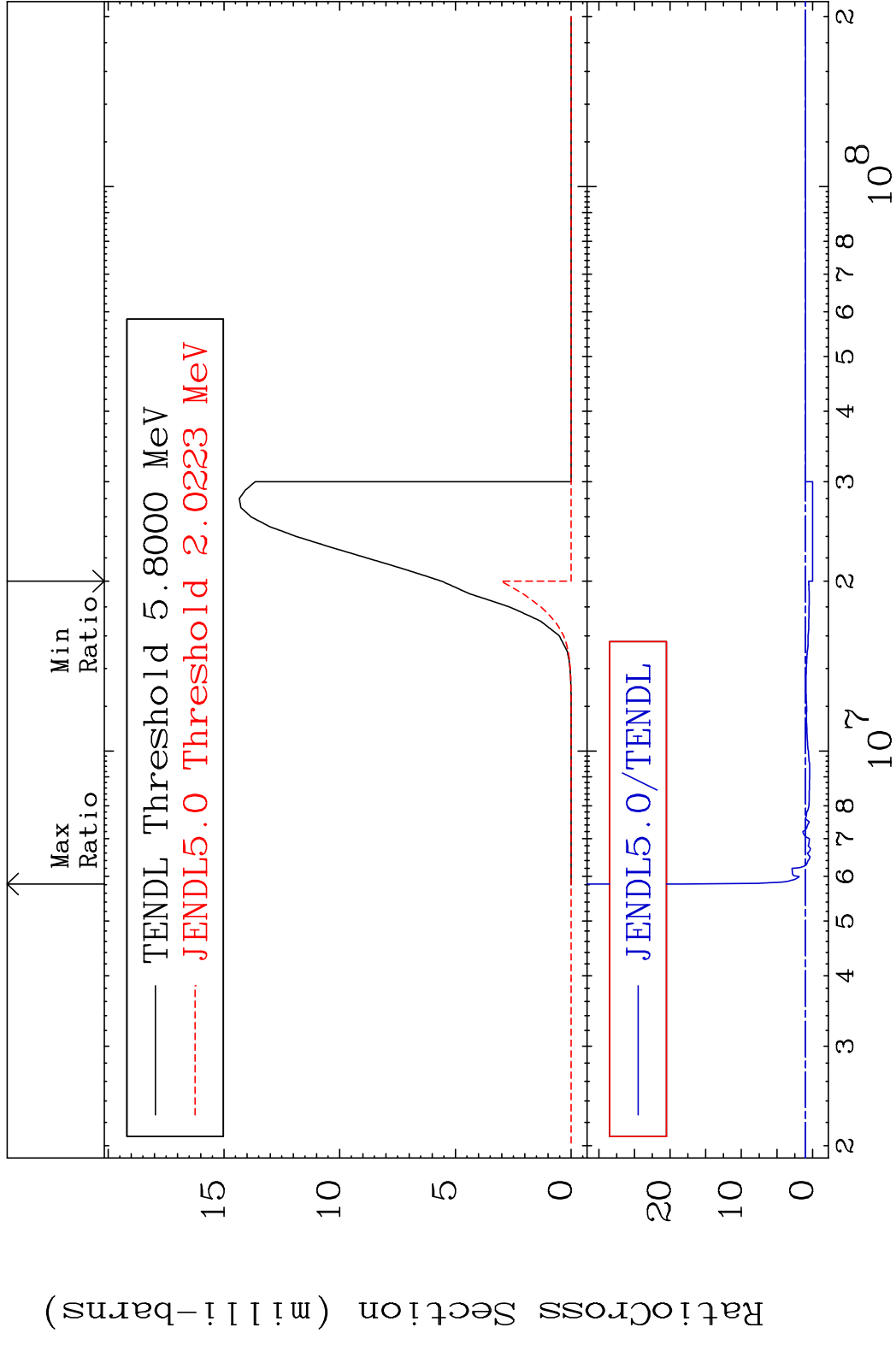


MAT 5441 (n, n') α :52-Te-125g 54-Xe-129m
 Radionuclide Production Cross Section Ratio 3999. %

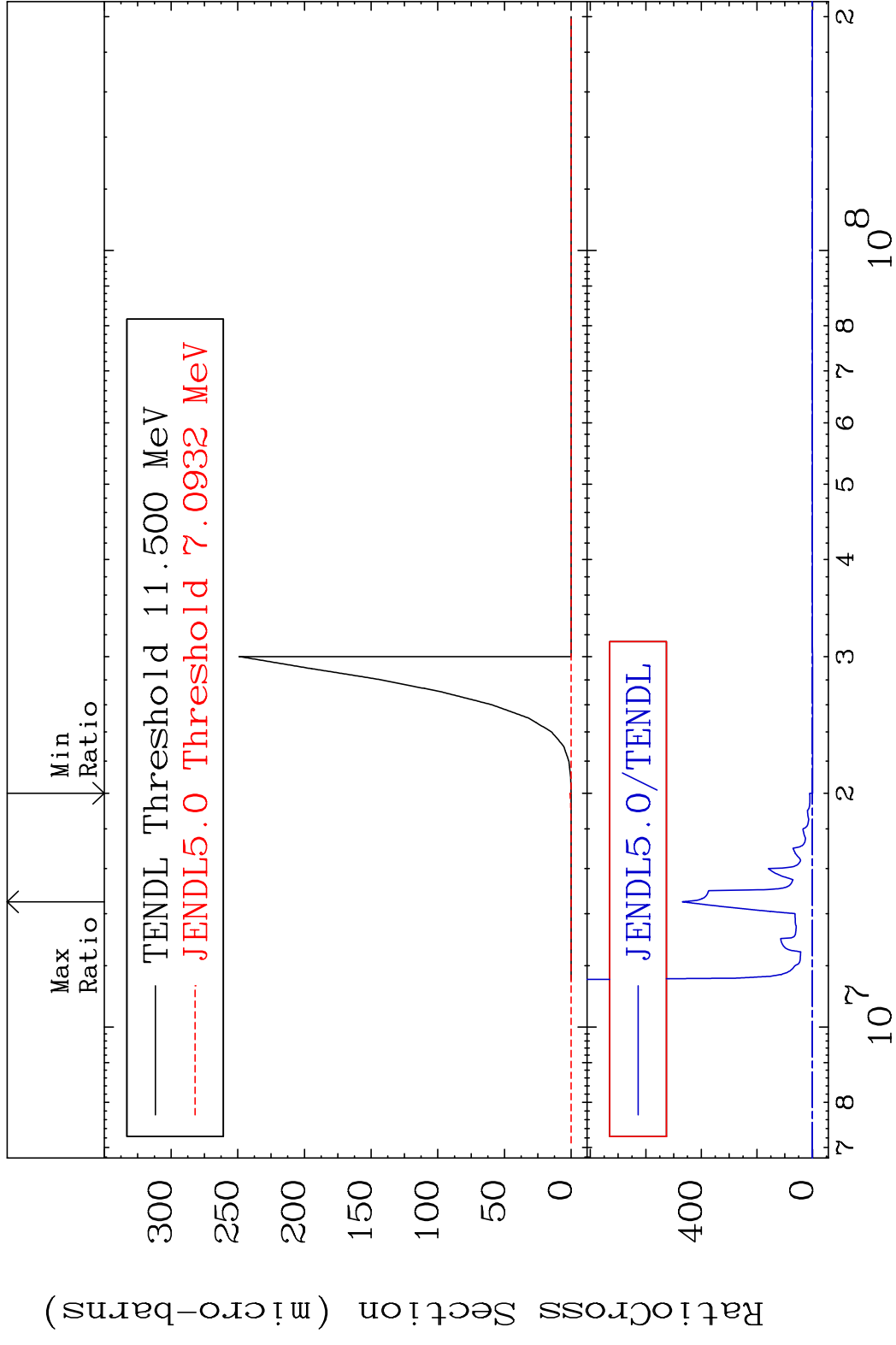


69 Incident Energy (eV) 54-Xe-129m

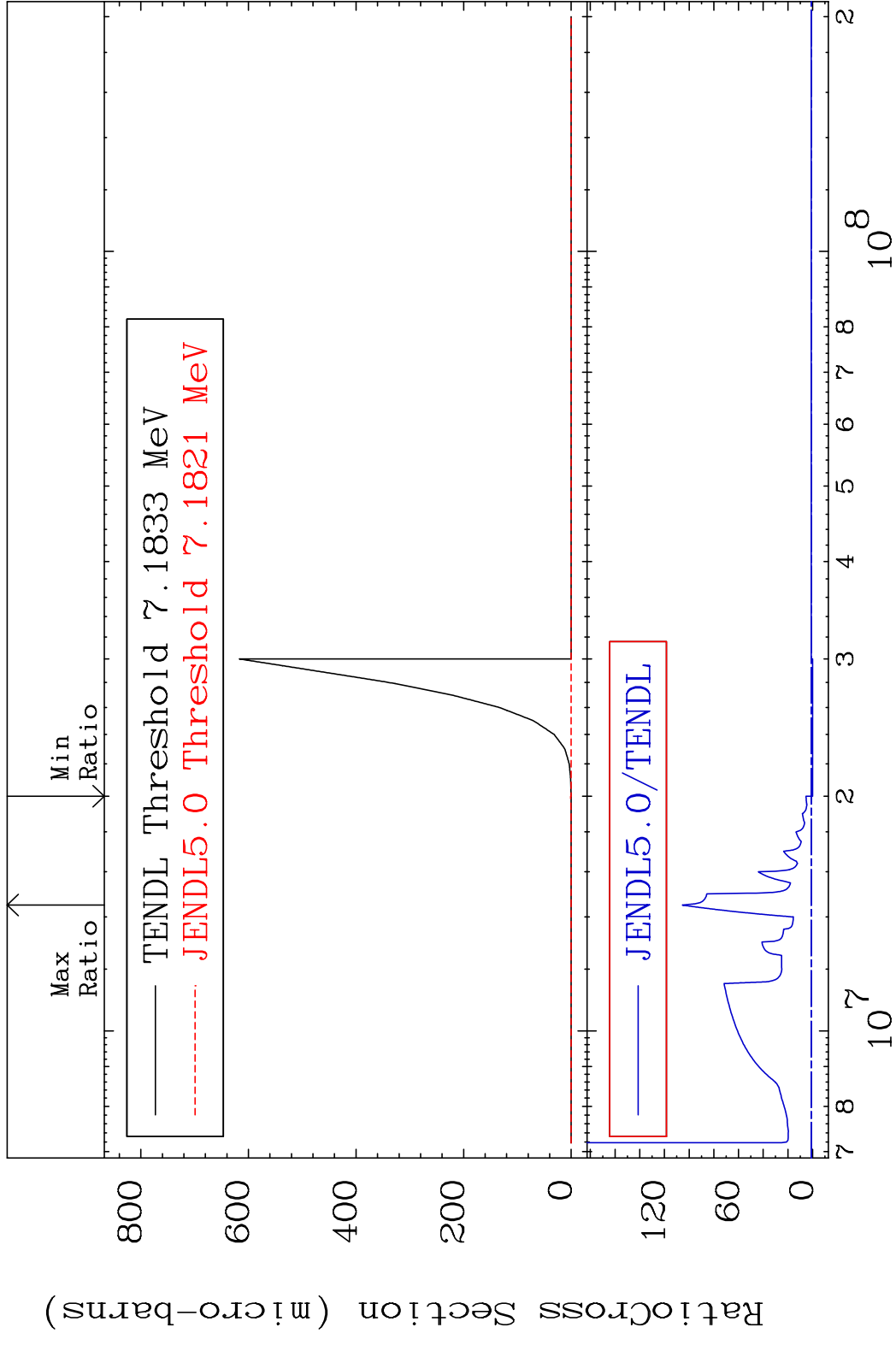
MAT 5441 (n, n') α :52-Te-125m2 54-Xe-129m
 Radionuclide Production Cross Section 18000 dth 1728. %



MAT 5441 (n, He-3):52-Te-127g 54-Xe-129m
 Radionuclide Production Cross Section 100.00 to 9999.99 %



MAT 5441 (n, He-3) : 52-Te-127m2 54-Xe-129m
 Radionuclide Production Cross Section to 9999. %



72 Incident Energy (eV) 54-Xe-129m