

Program Complot
(Version 2021-1)

by

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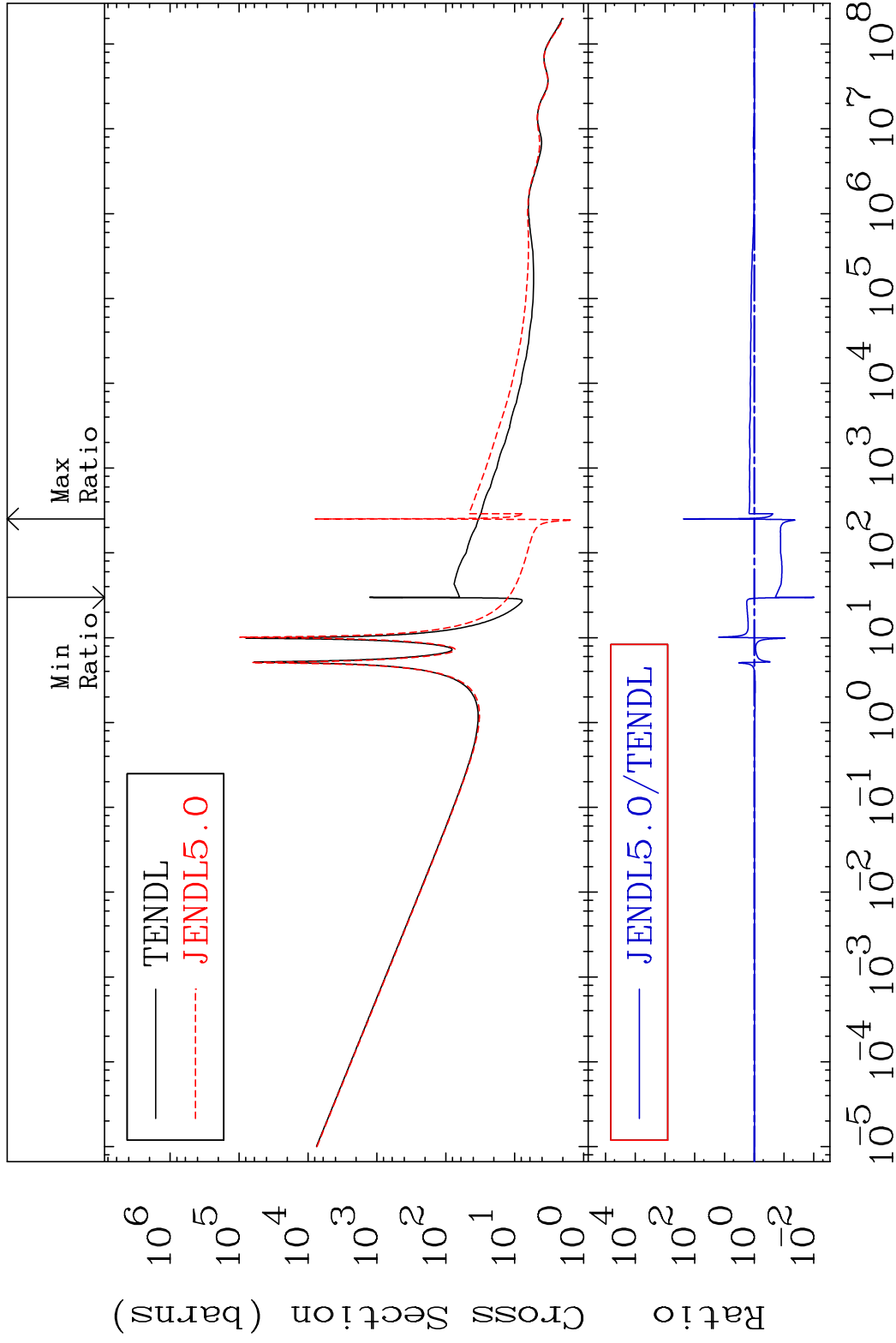
Press Mouse Button to Start

MAT 5425

Total

54-Xe-124

Cross Section -99.03 To 9999. %



1

Incident Energy (eV)

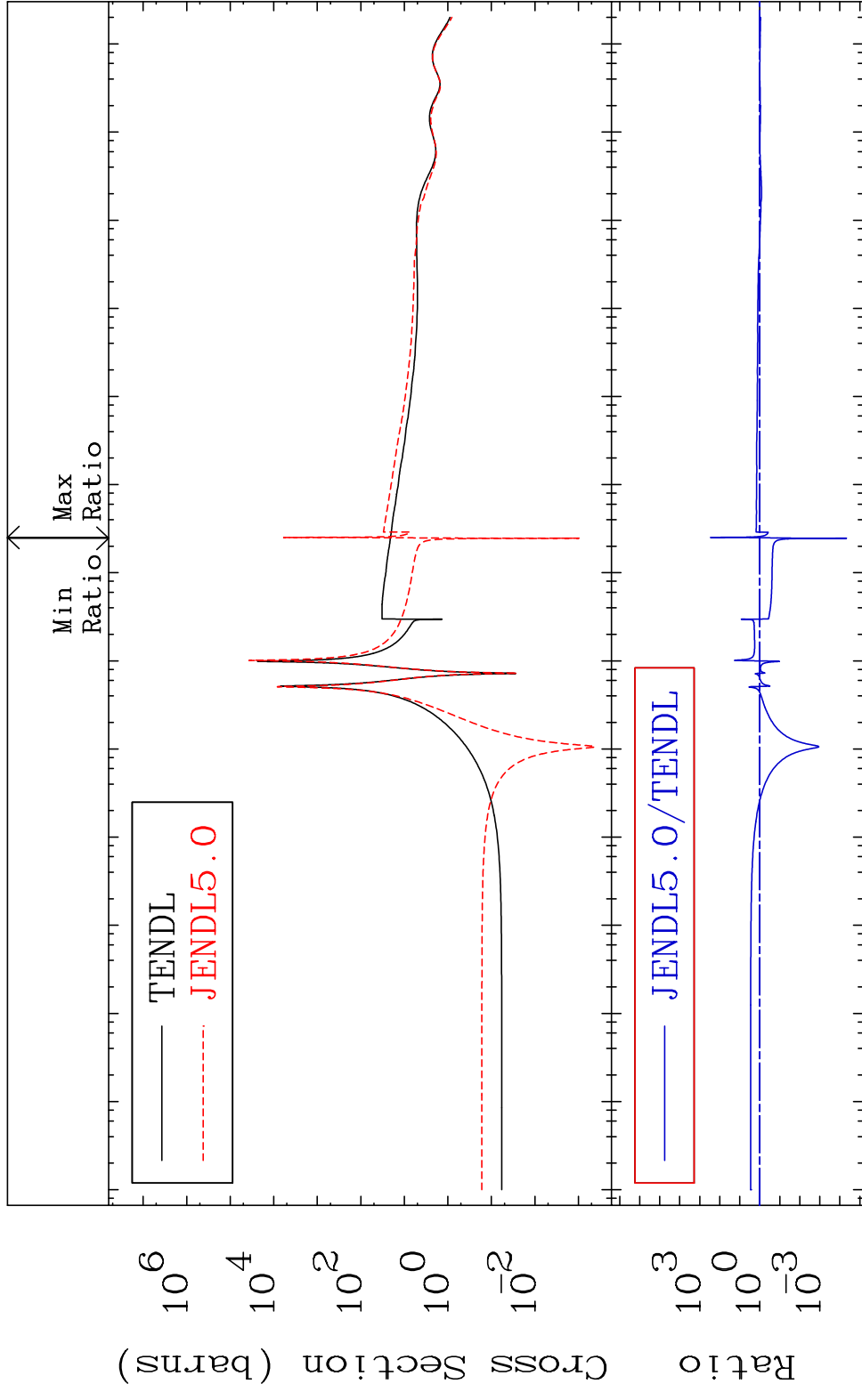
54-Xe-124

MAT 5425

54-Xe-124

Elastic

Cross Section -100.0 To 9999. %

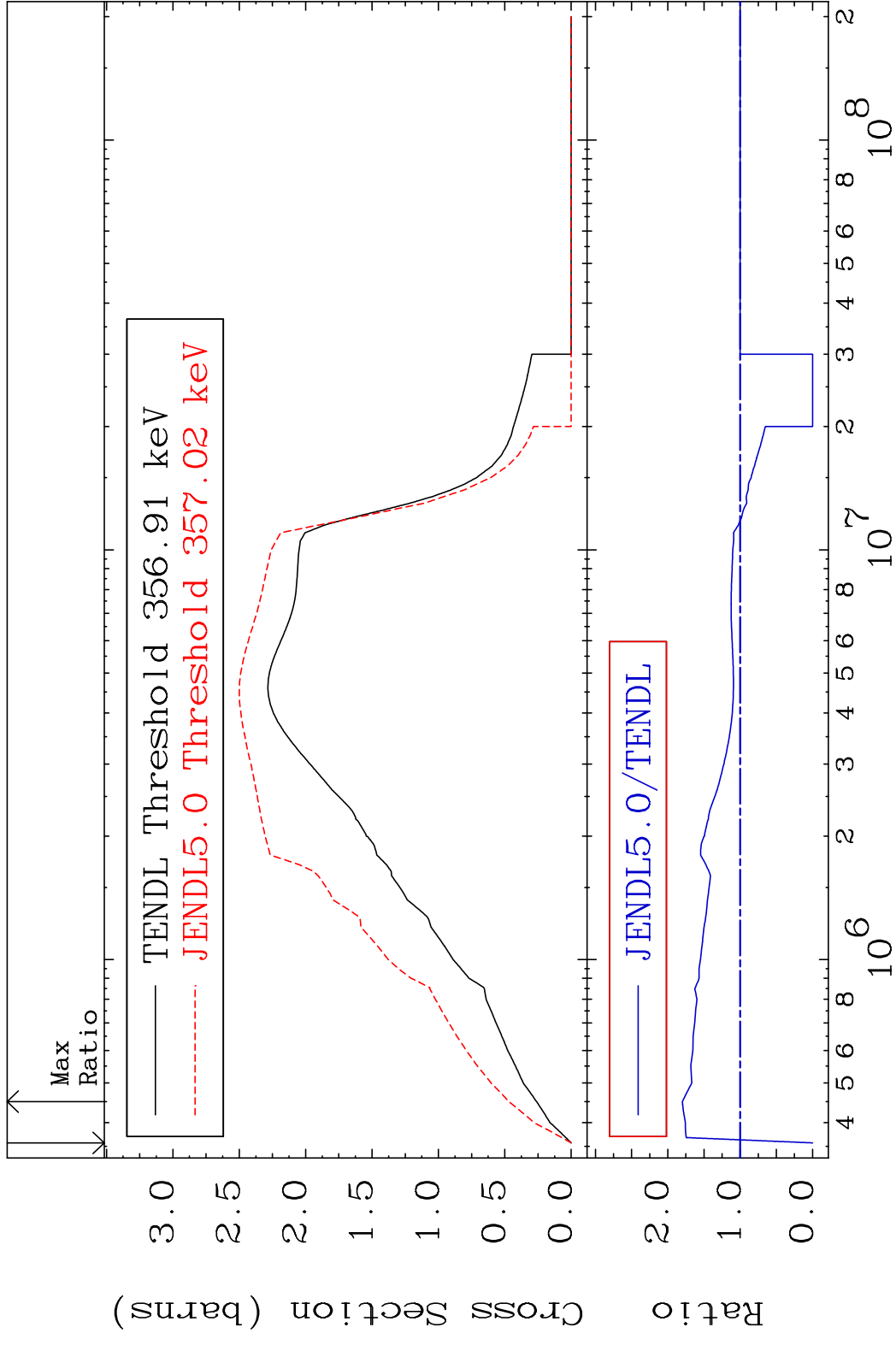


2

Incident Energy (eV)

54-Xe-124

MAT 5425 Inelastic 54-Xe-124
 Cross Section -100.0 To 79.92 %

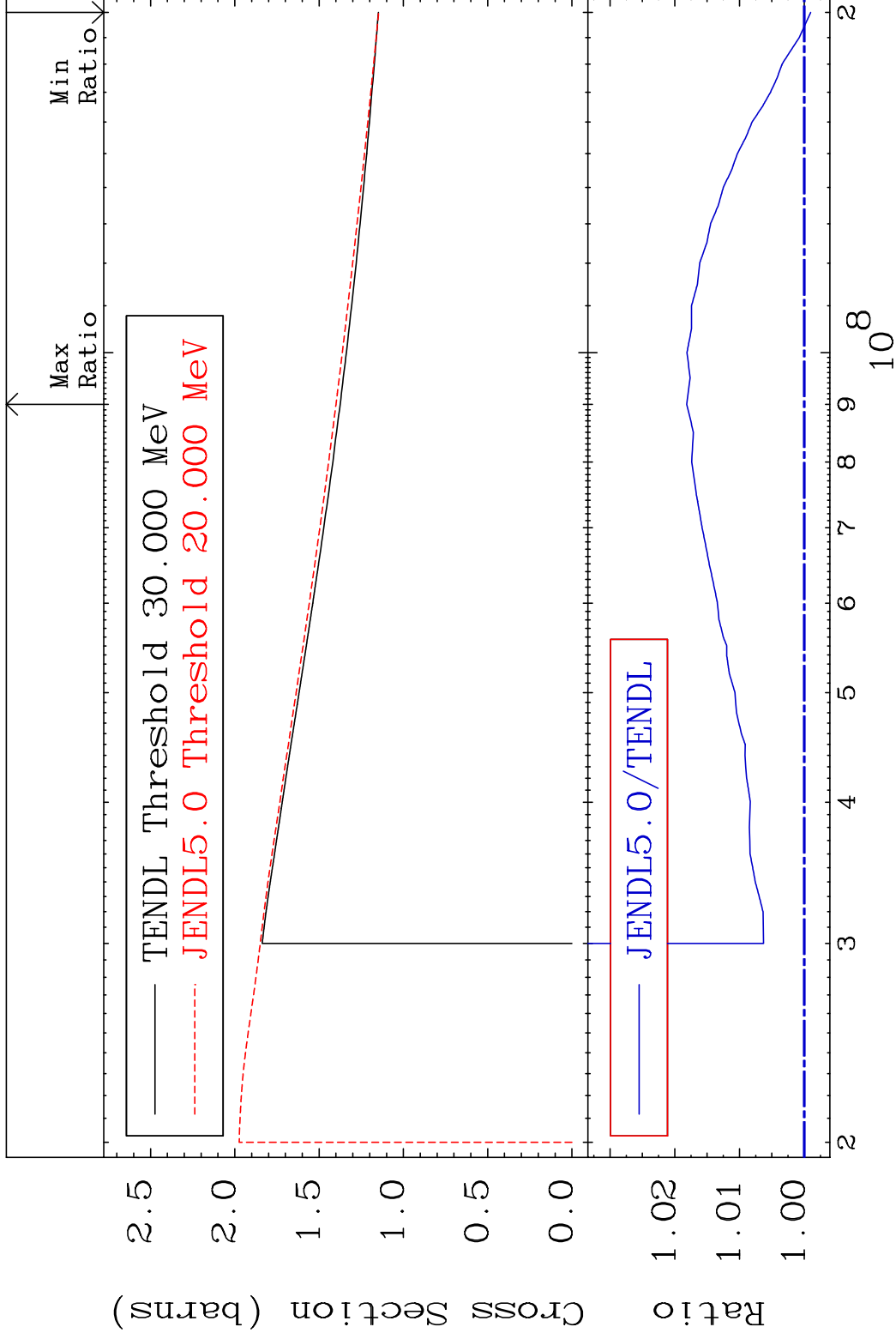


MAT 5425

(n, remainder)

54-Xe-124

Cross Section -0.101 To 1.815 %



4

Incident Energy (eV)

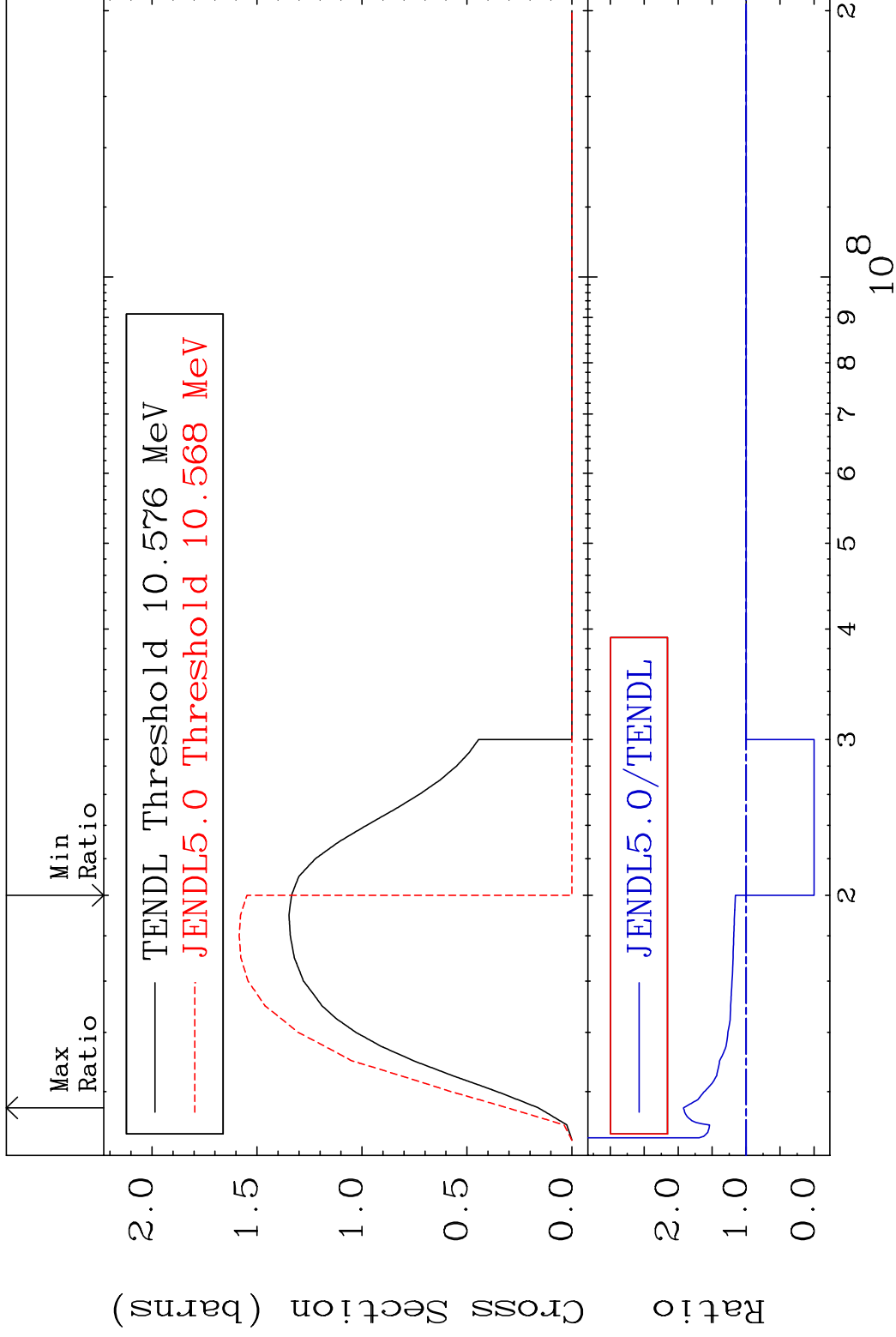
54-Xe-124

MAT 5425

(n,2n)

54-Xe-124

Cross Section -100.0 To 92.26 %



5

Incident Energy (eV)

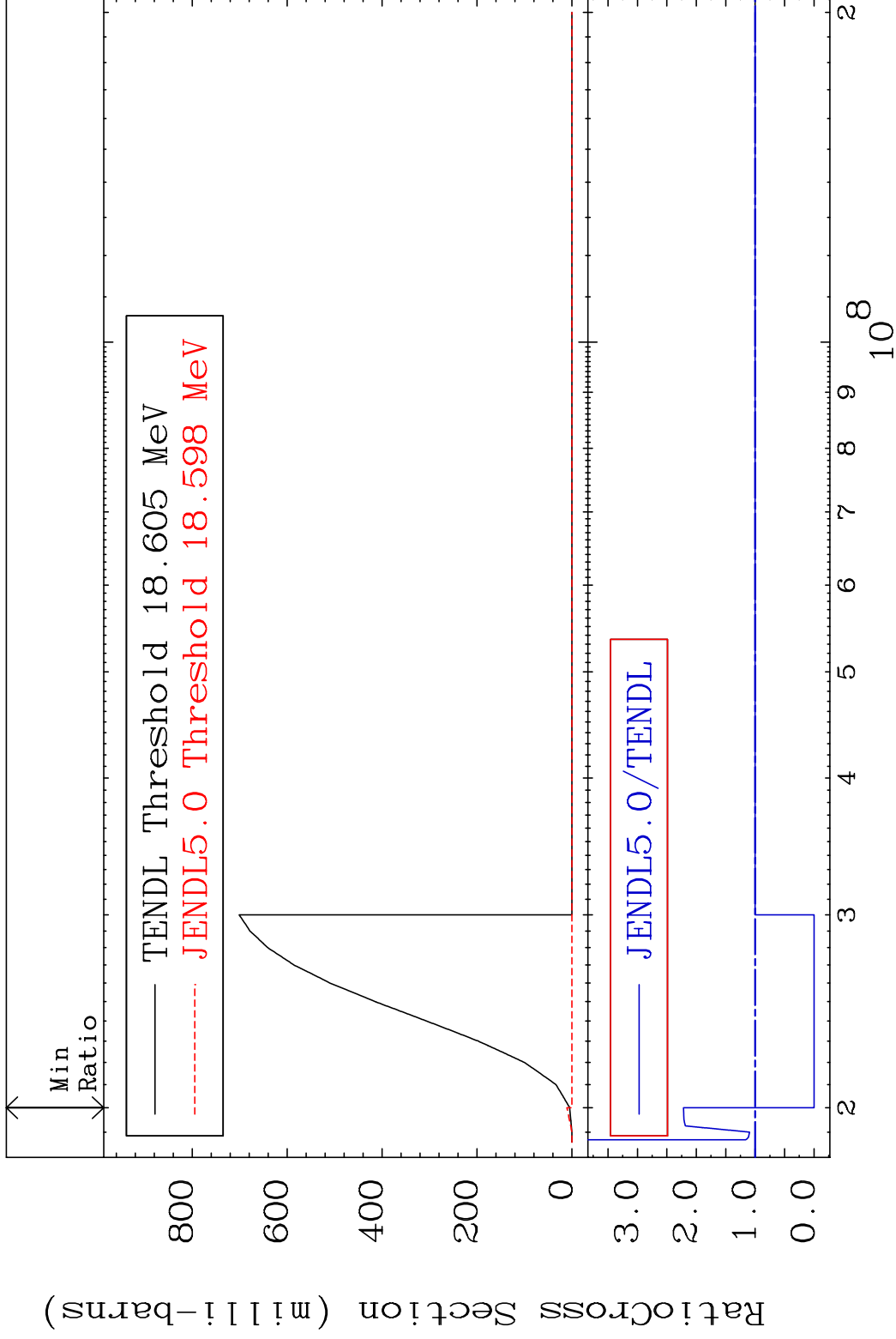
54-Xe-124

MAT 5425

(n,3n)

54-Xe-124

Cross Section -100.0 To 121.8 %

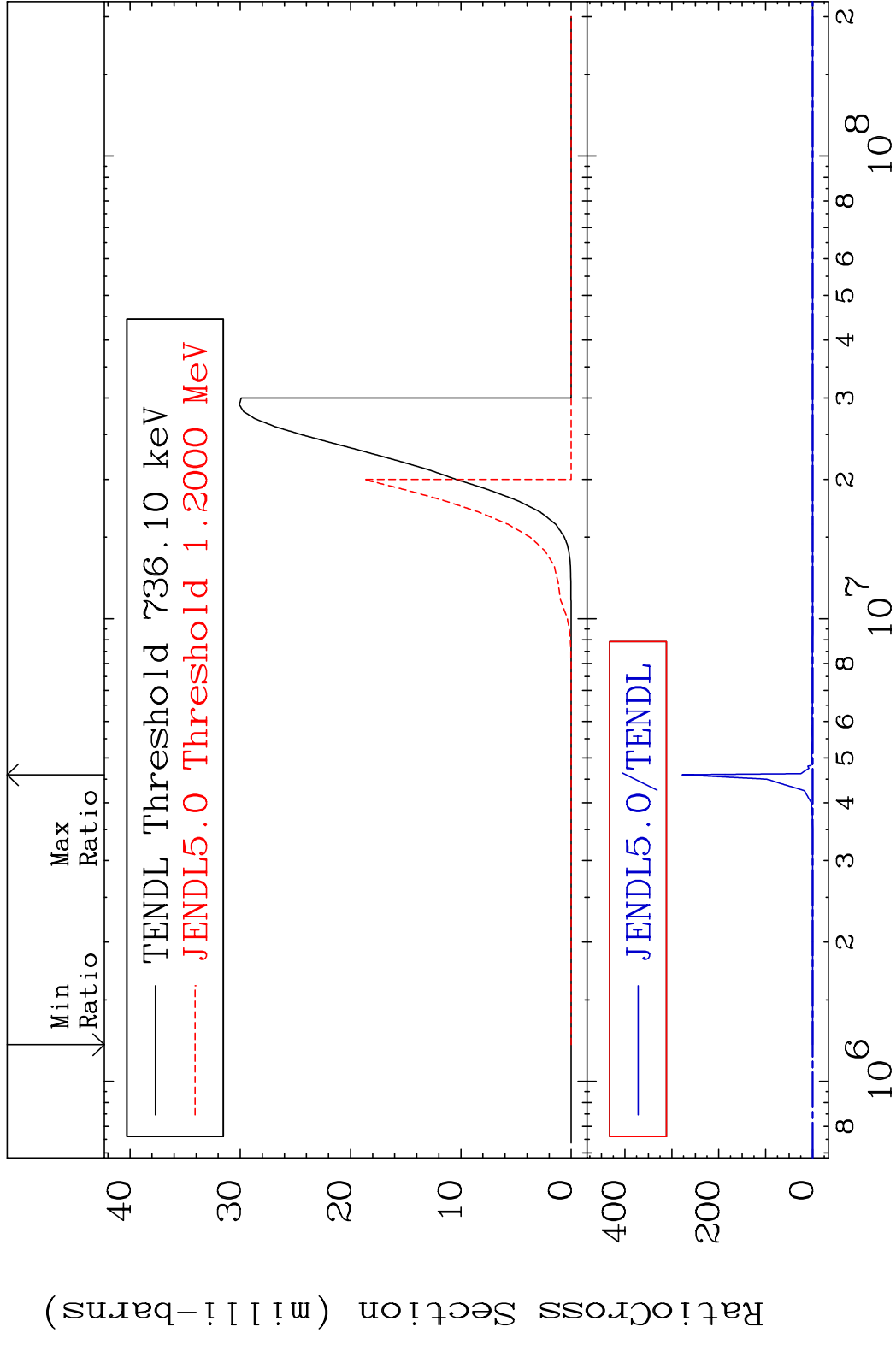


6

Incident Energy (eV)

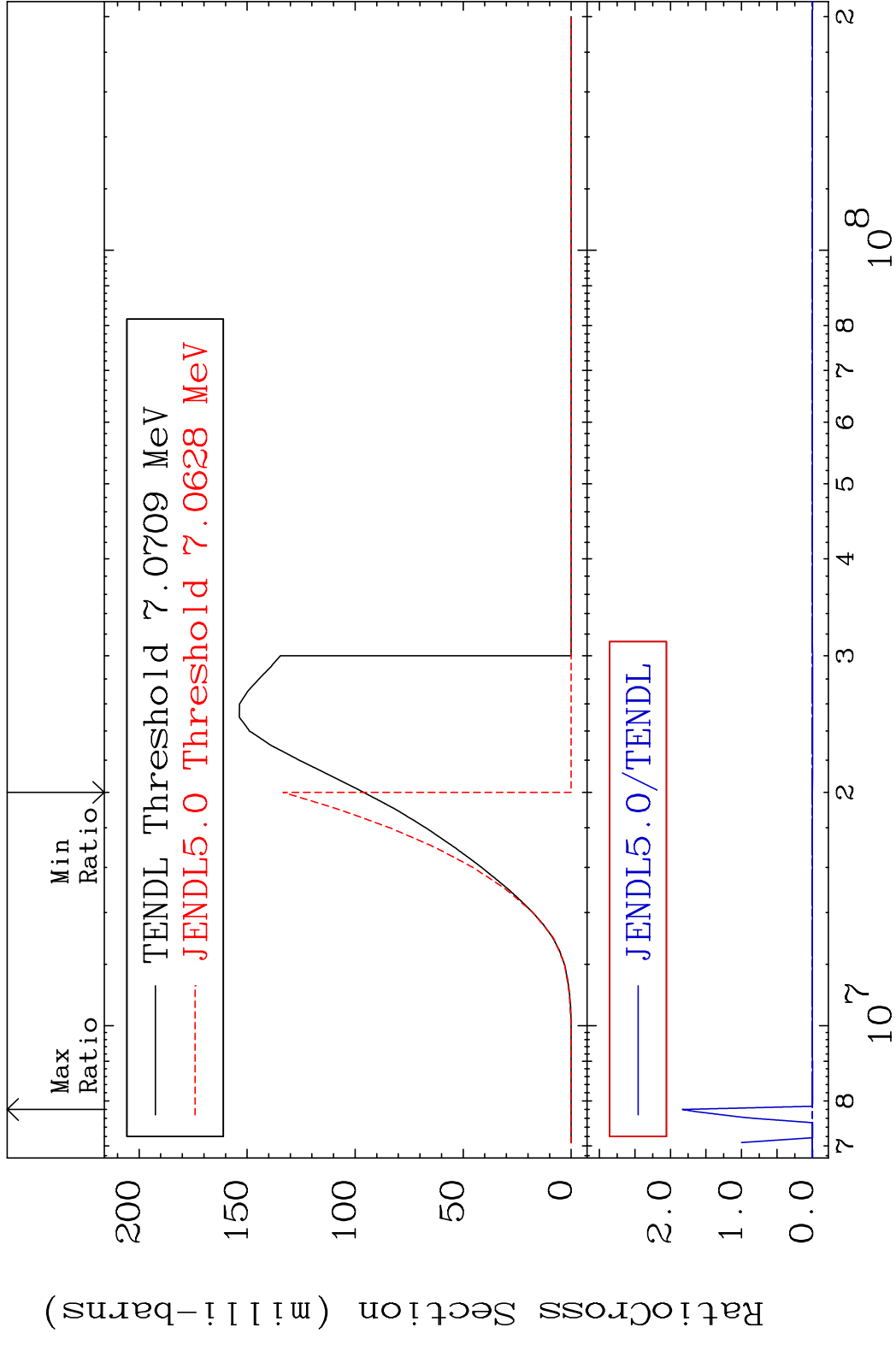
54-Xe-124

MAT 5425 (n, n') α 54-Xe-124
 Cross Section -100.0 To 9999. %

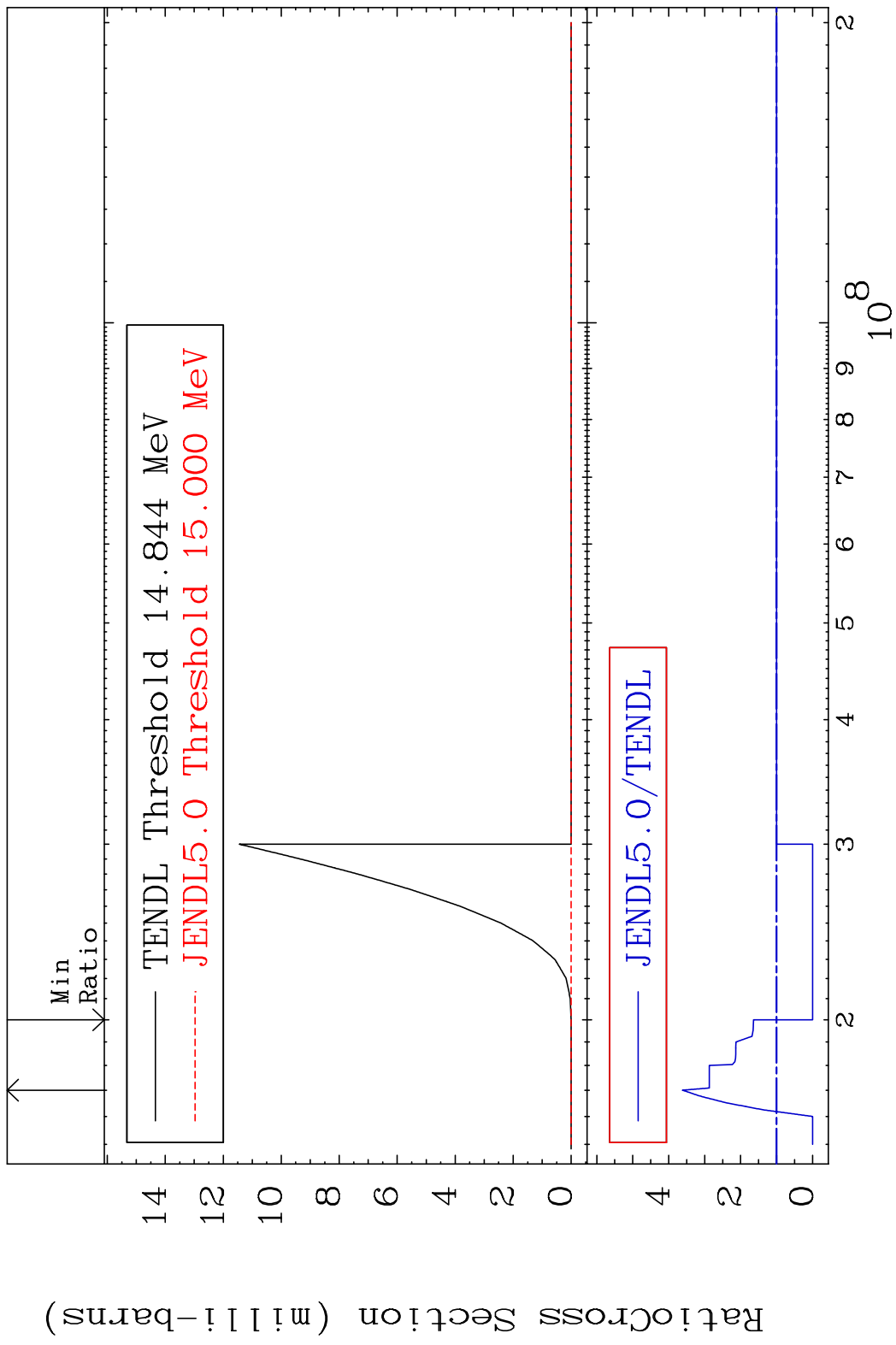


7 Incident Energy (eV) 54-Xe-124

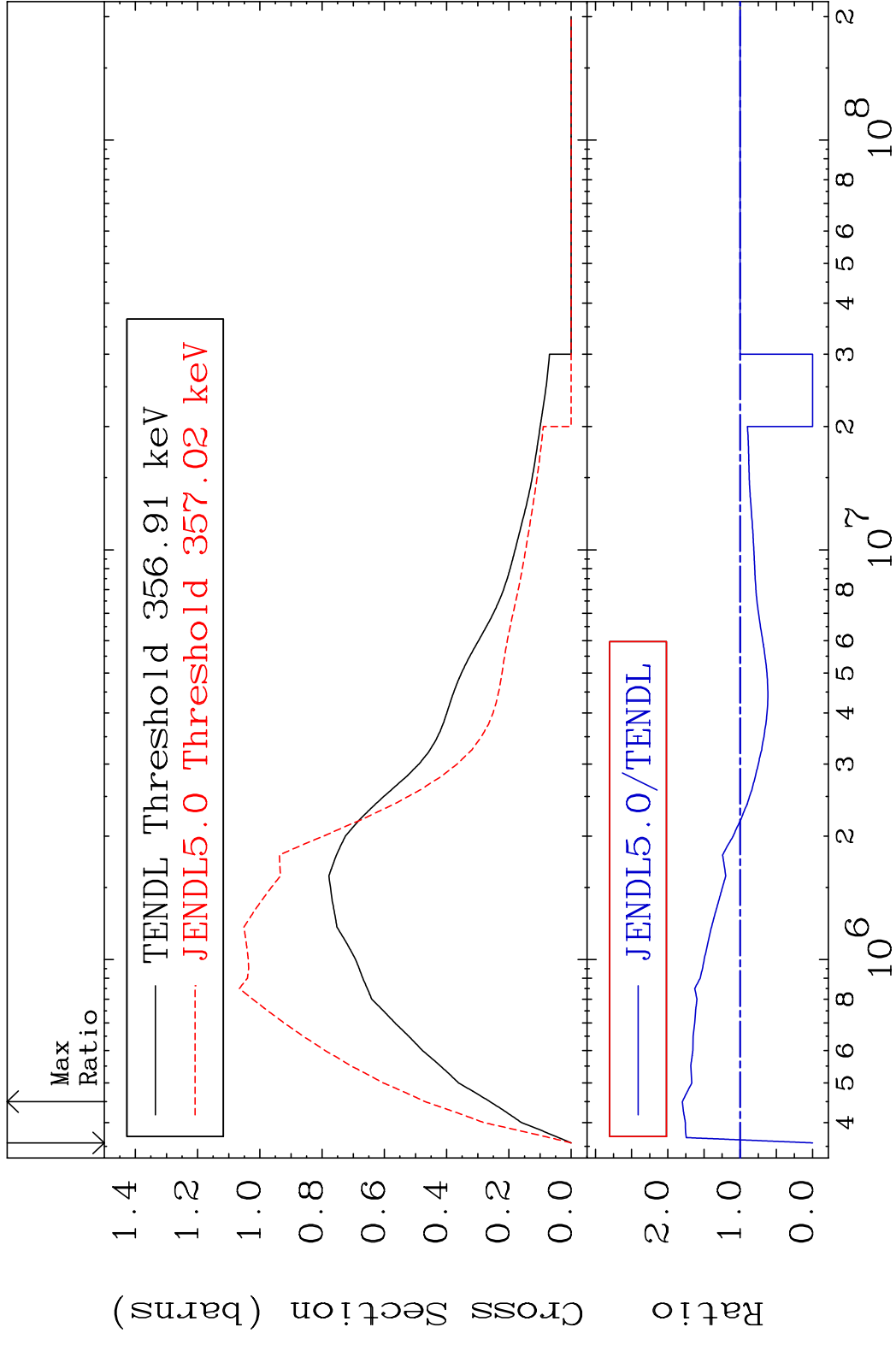
MAT 5425 (n, n') p 54-Xe-124
 Cross Section -100.0 To 9999. %



MAT 5425 (n, n') d 54-Xe-124
 Cross Section -100.0 To 262.0 %

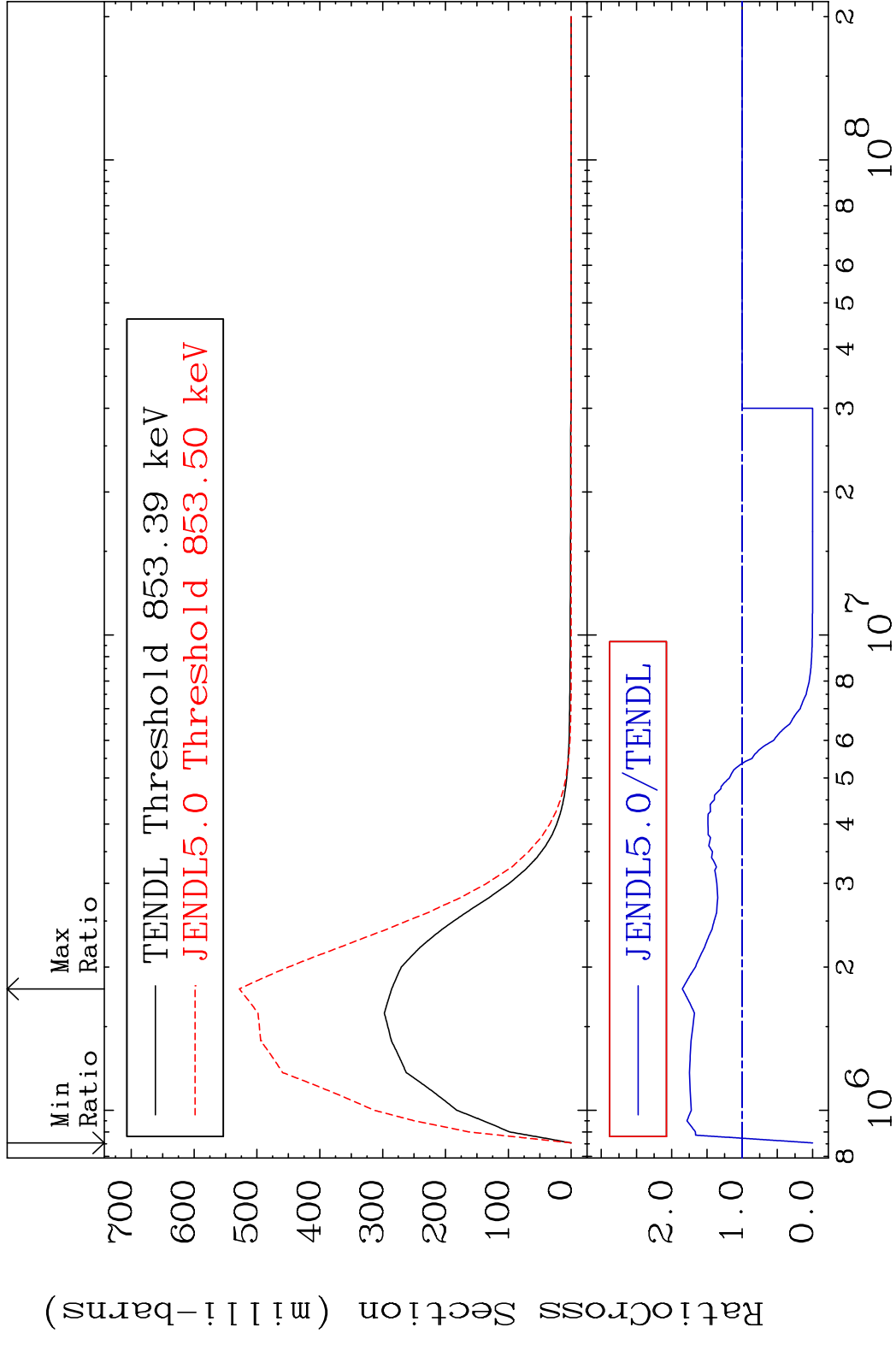


MAT 5425 MT= 51 (n, n') Level 54-Xe-124
 Cross Section -100.0 To 79.92 %

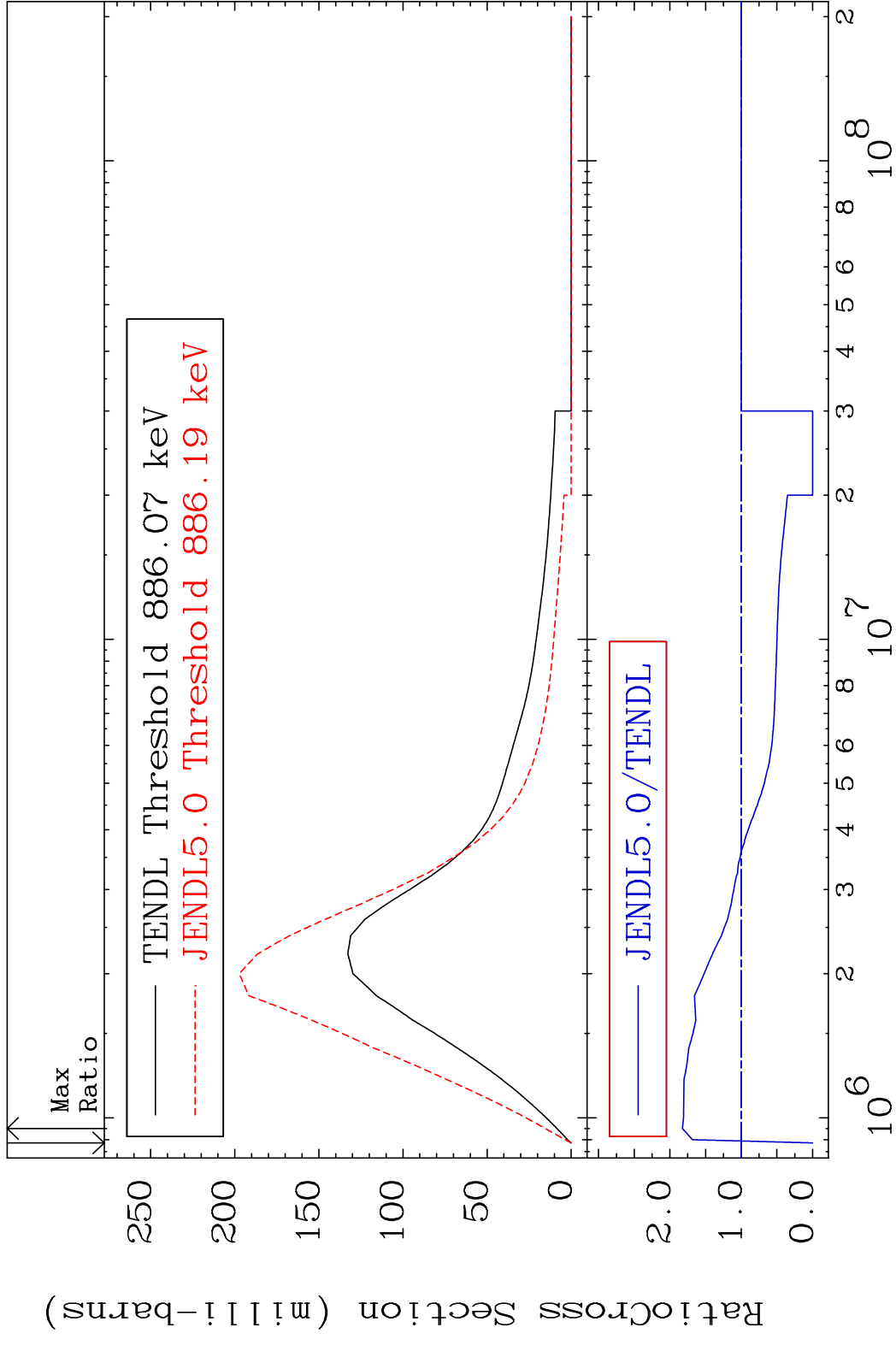


10 Incident Energy (eV) 54-Xe-124

MAT 5425 MT= 52 (n, n') Level 54-Xe-124
 Cross Section -100.0 To 84.90 %

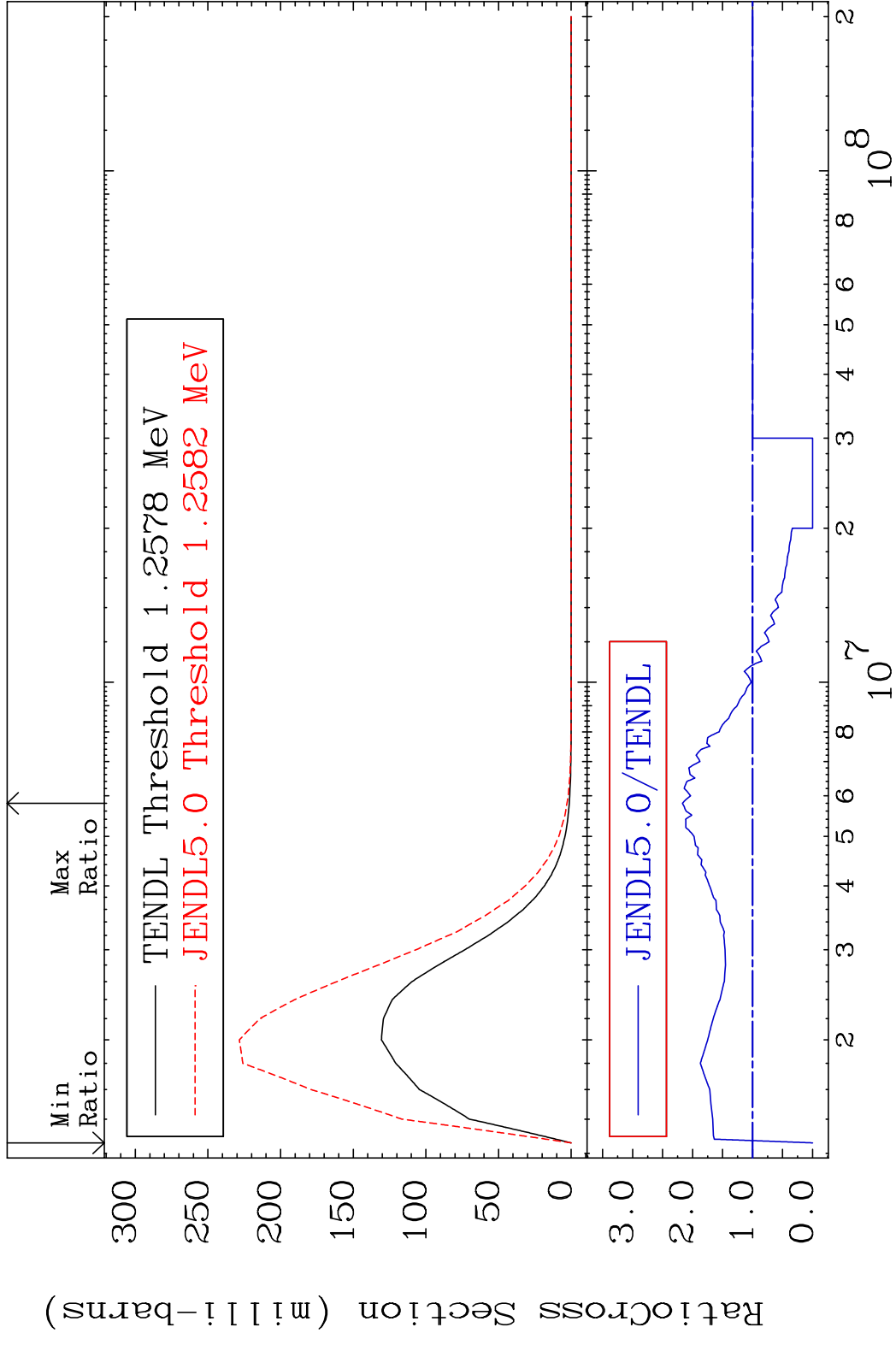


MAT 5425 MT= 53 (n, n') Level 54-Xe-124
 Cross Section -100.0 To 82.54 %

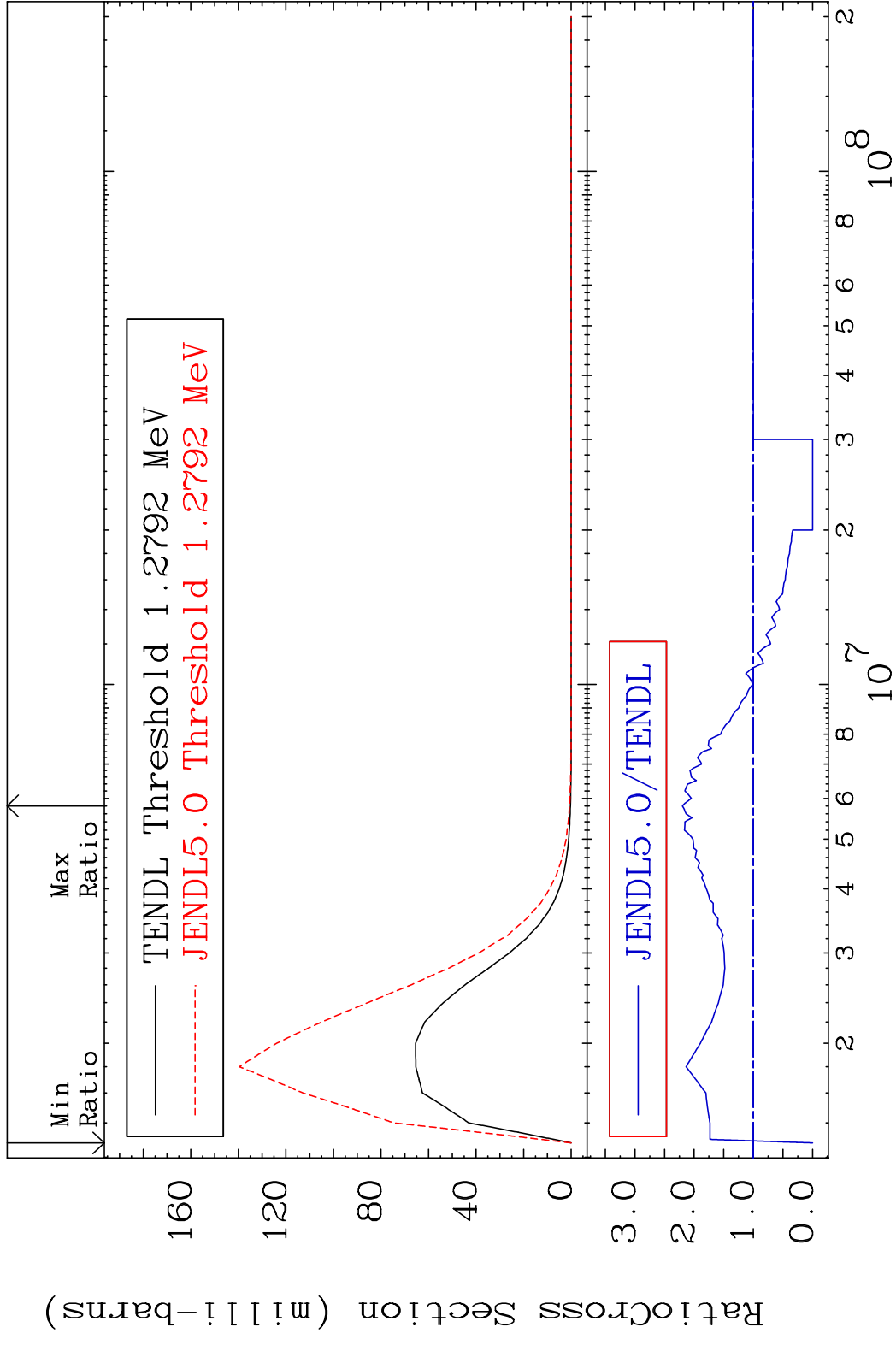


12 54-Xe-124

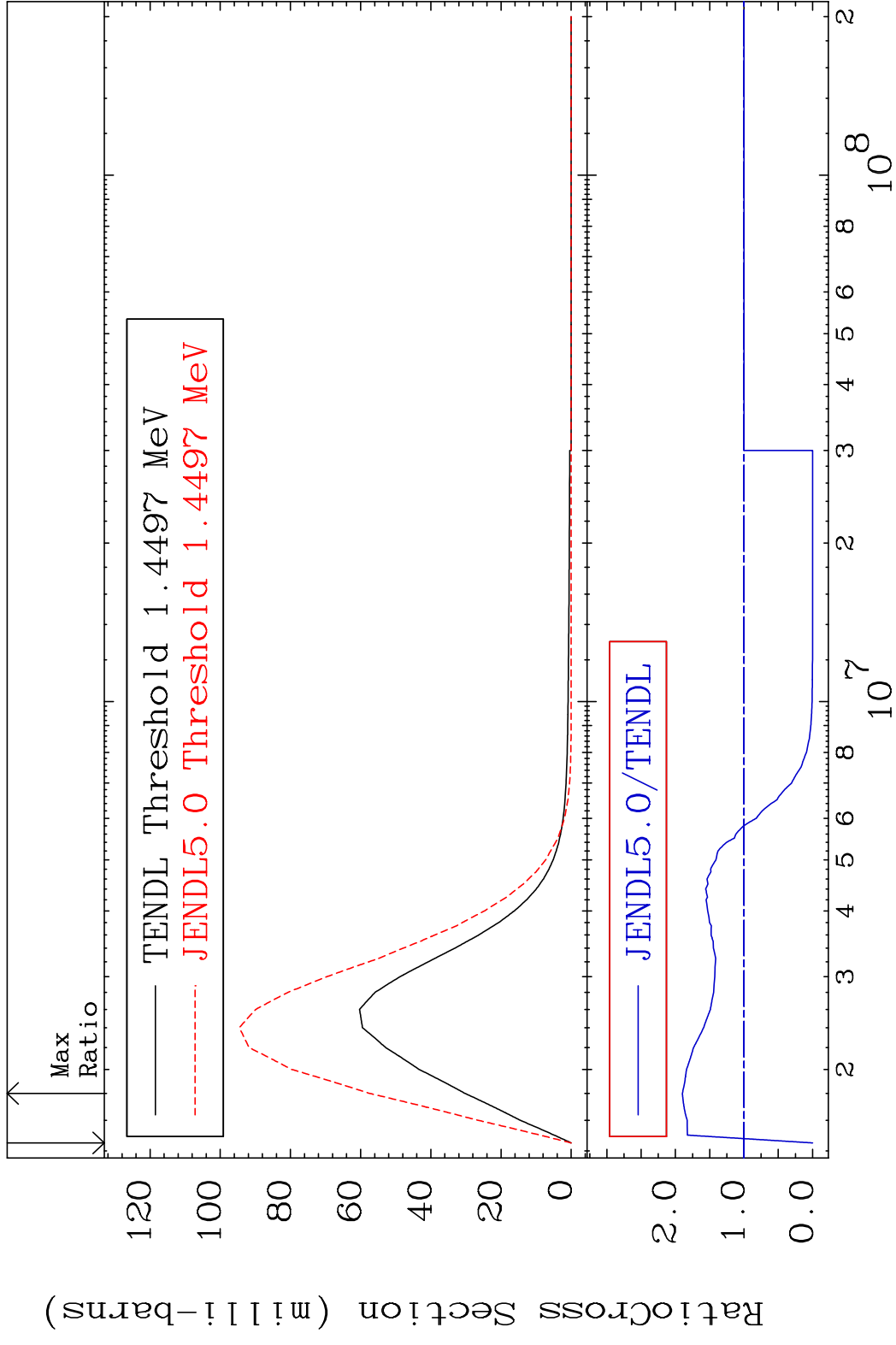
MAT 5425 MT= 54 (n,n') Level 54-Xe-124
 Cross Section -100.0 To 117.1 %



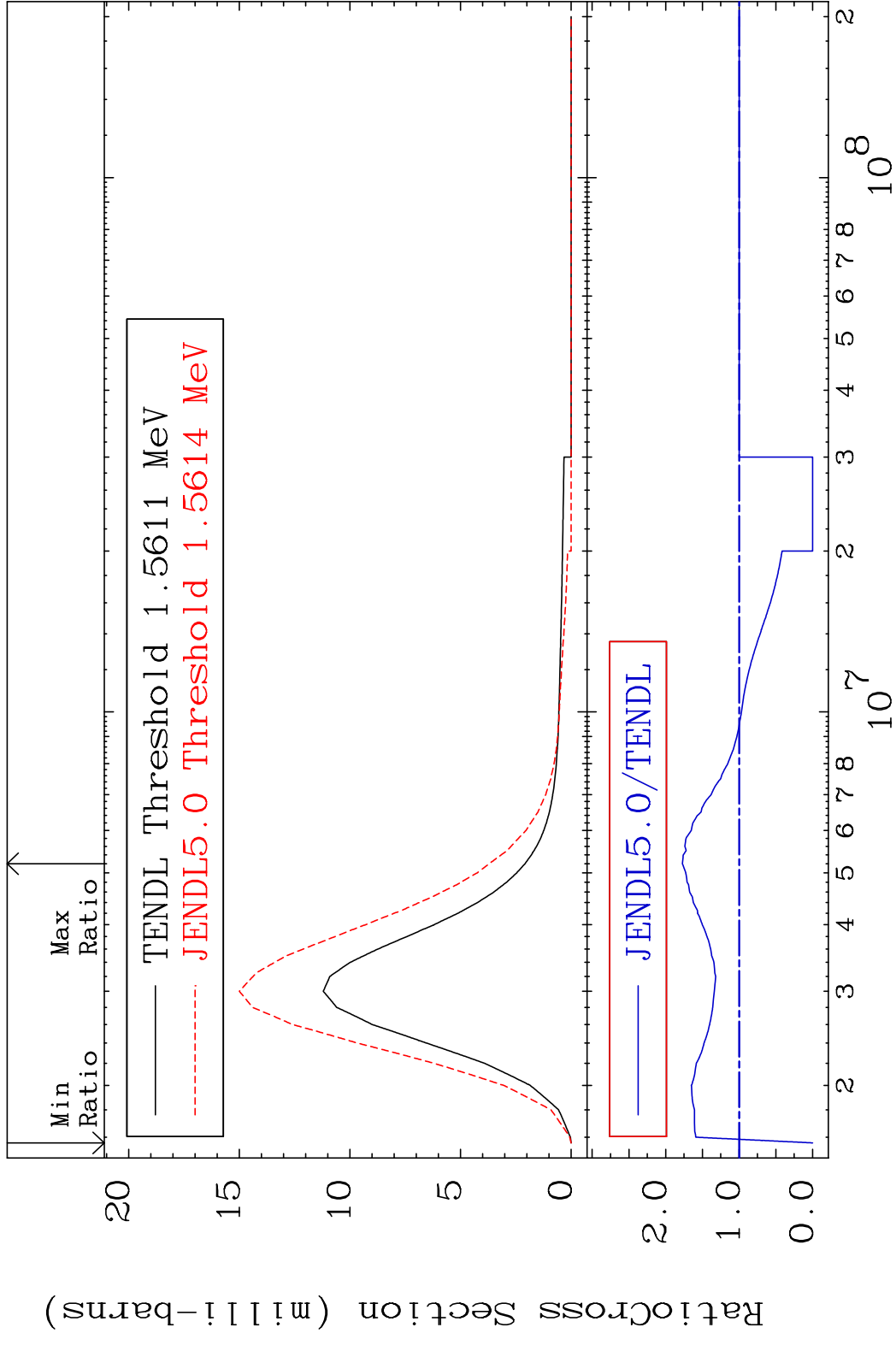
MAT 5425 MT= 55 (n,n') Level 54-Xe-124
 Cross Section -100.0 To 119.9 %



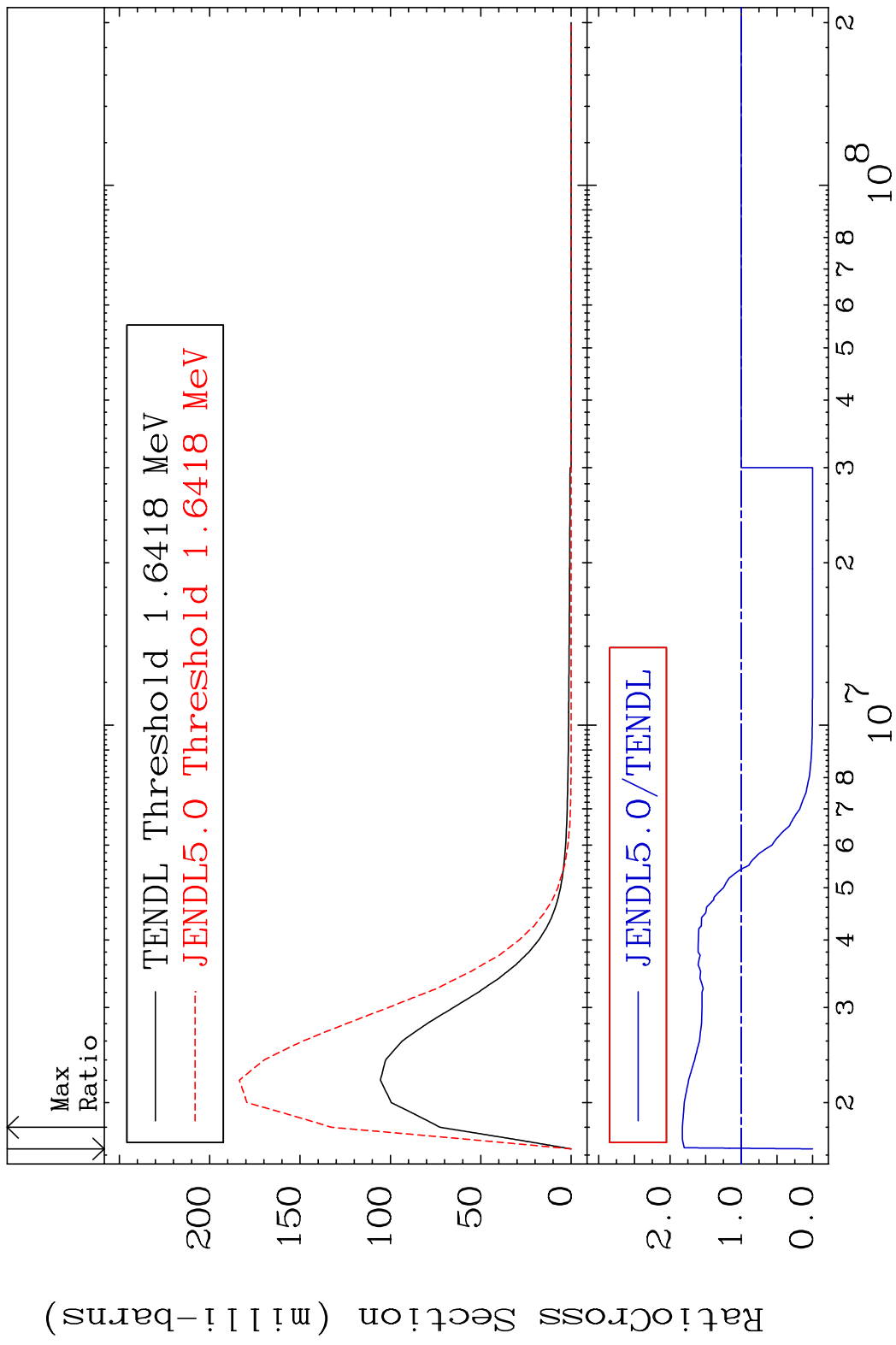
MAT 5425 MT= 56 (n,n') Level 54-Xe-124
 Cross Section -100.0 To 89.90 %



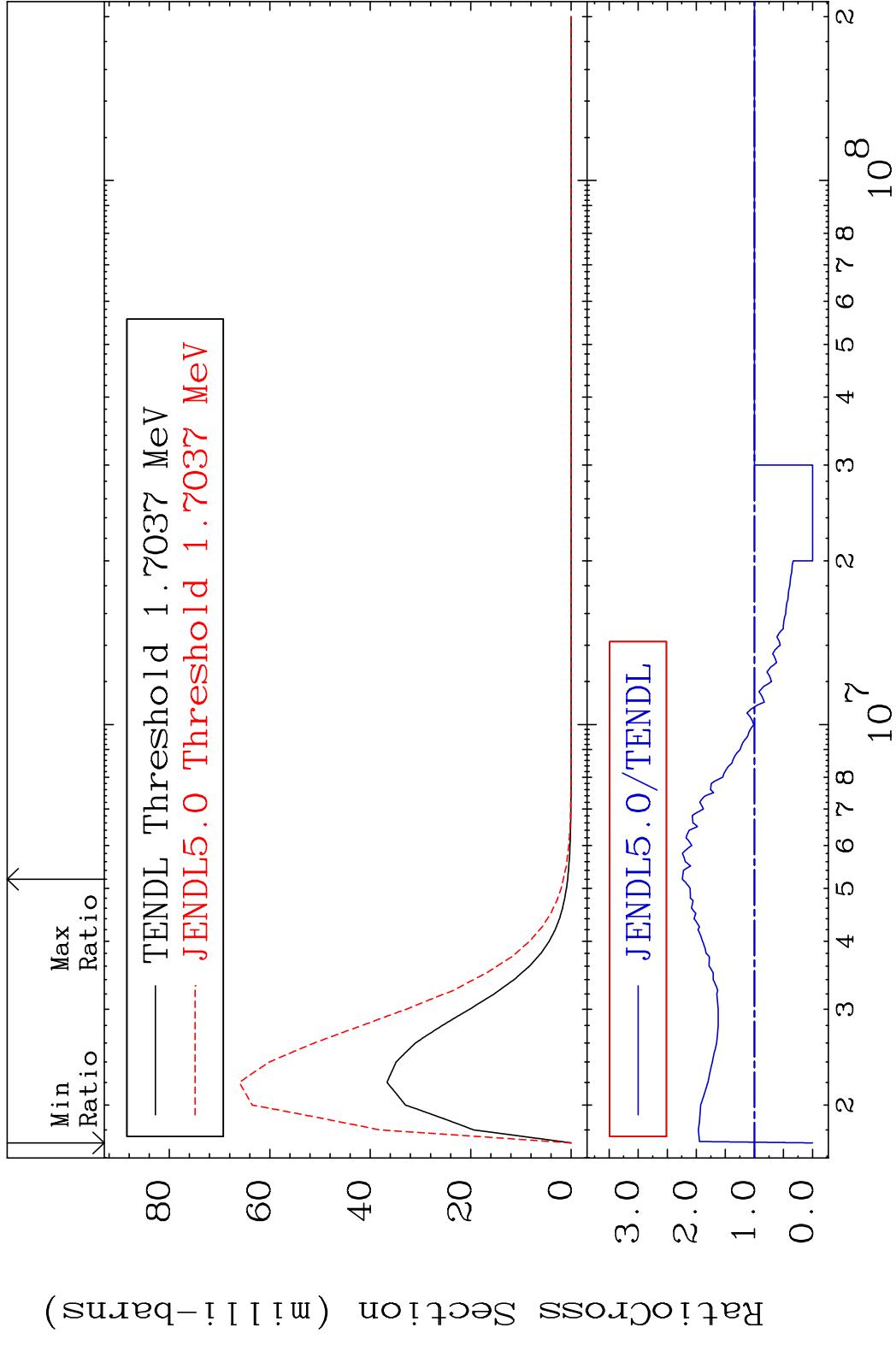
MAT 5425 MT= 57 (n,n') Level 54-Xe-124
 Cross Section -100.0 To 77.25 %



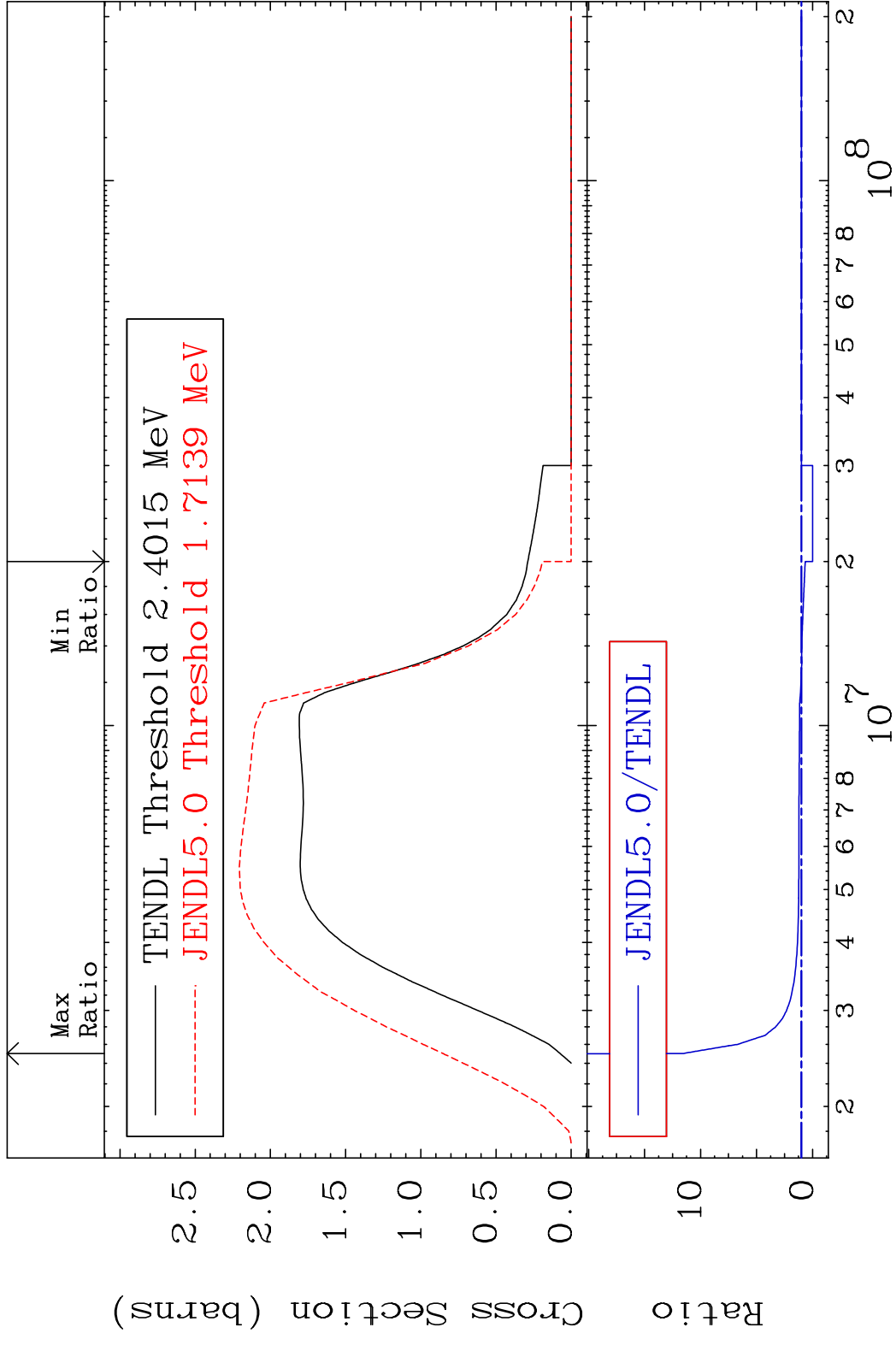
MAT 5425 MT= 58 (n, n') Level 54-Xe-124
 Cross Section -100.0 To 82.71 %



MAT 5425 MT= 59 (n,n') Level 54-Xe-124
 Cross Section -100.0 To 124.0 %



MAT 5425 (n, n') Continuum 54-Xe-124
 Cross Section -100.0 To 1063. %

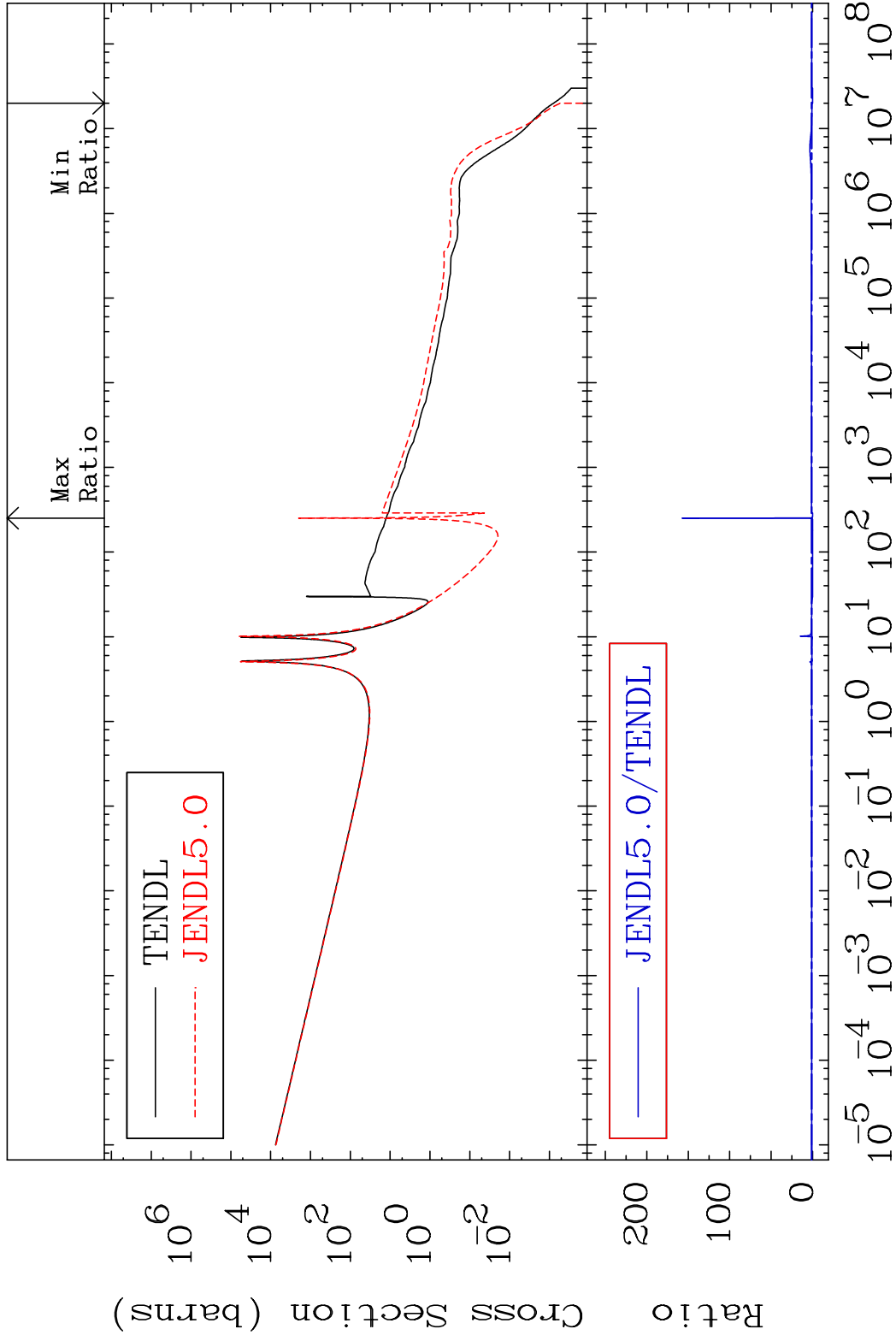


MAT 5425

(n, γ)

54-Xe-124

Cross Section -100.0 To 9999. %



20

Incident Energy (eV)

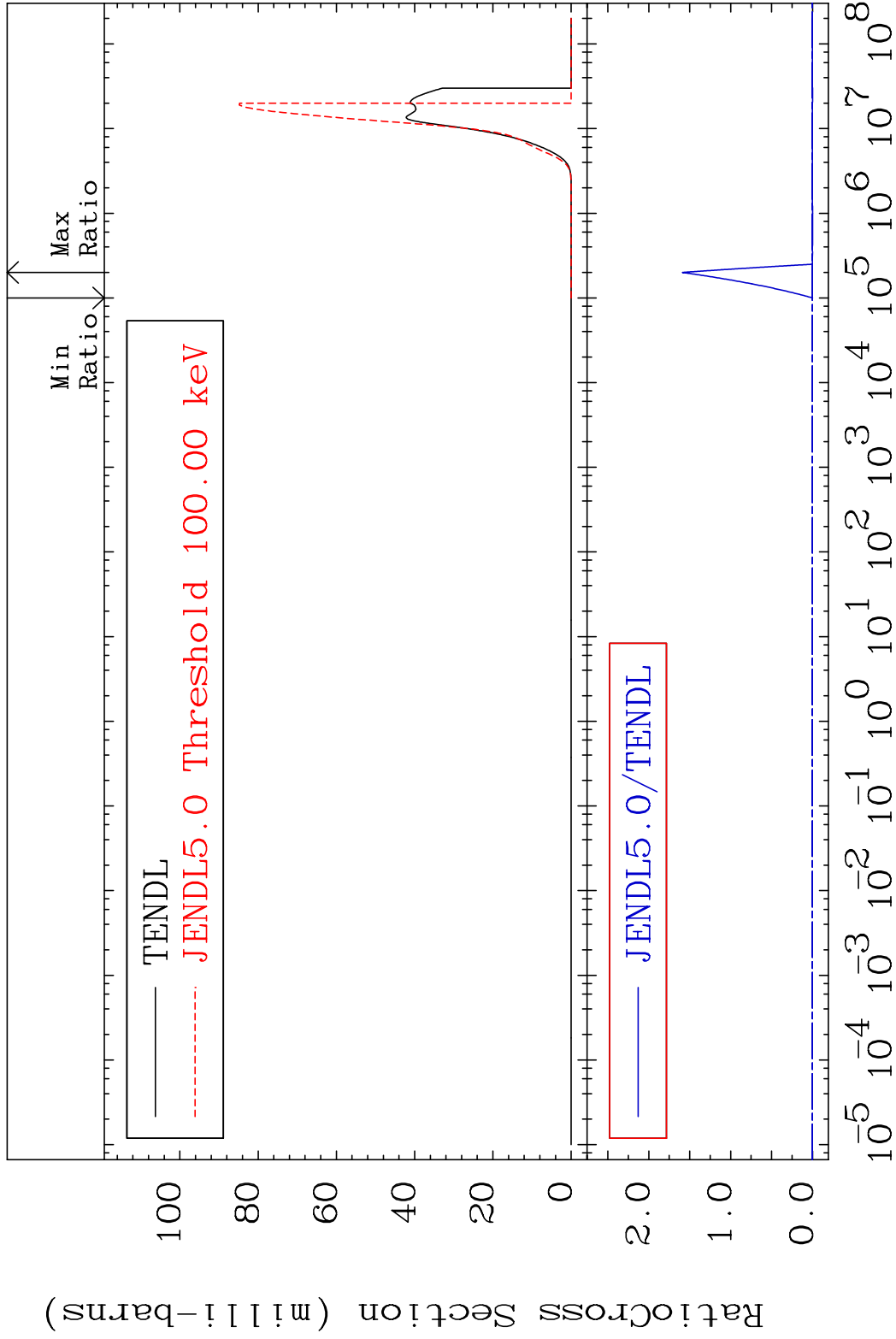
54-Xe-124

MAT 5425

(n, p)

54-Xe-124

Cross Section -100.0 To 9999. %



21

Incident Energy (eV)

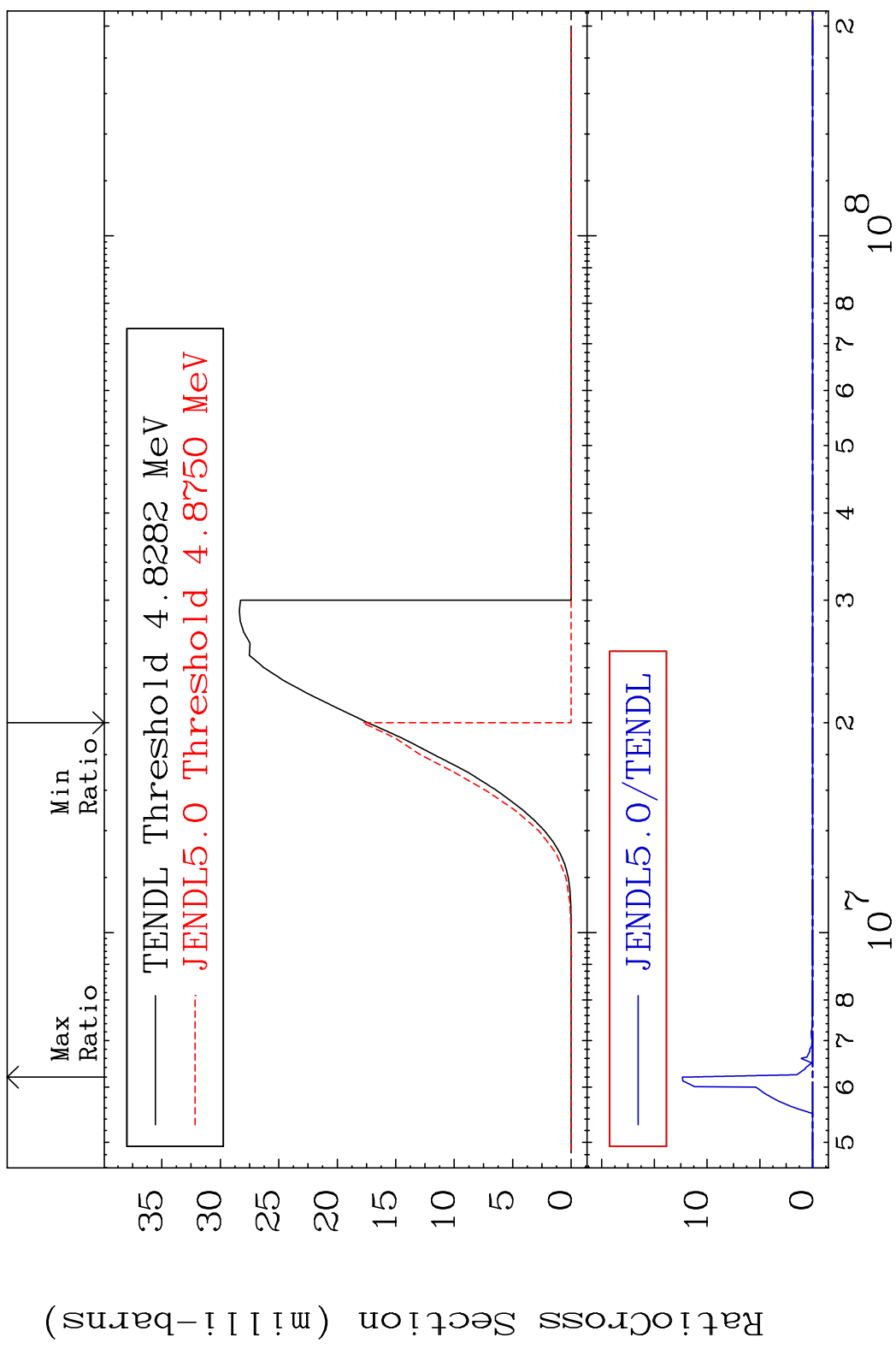
54-Xe-124

MAT 5425

(n,d)

54-Xe-124

Cross Section -100.0 To 9999. %

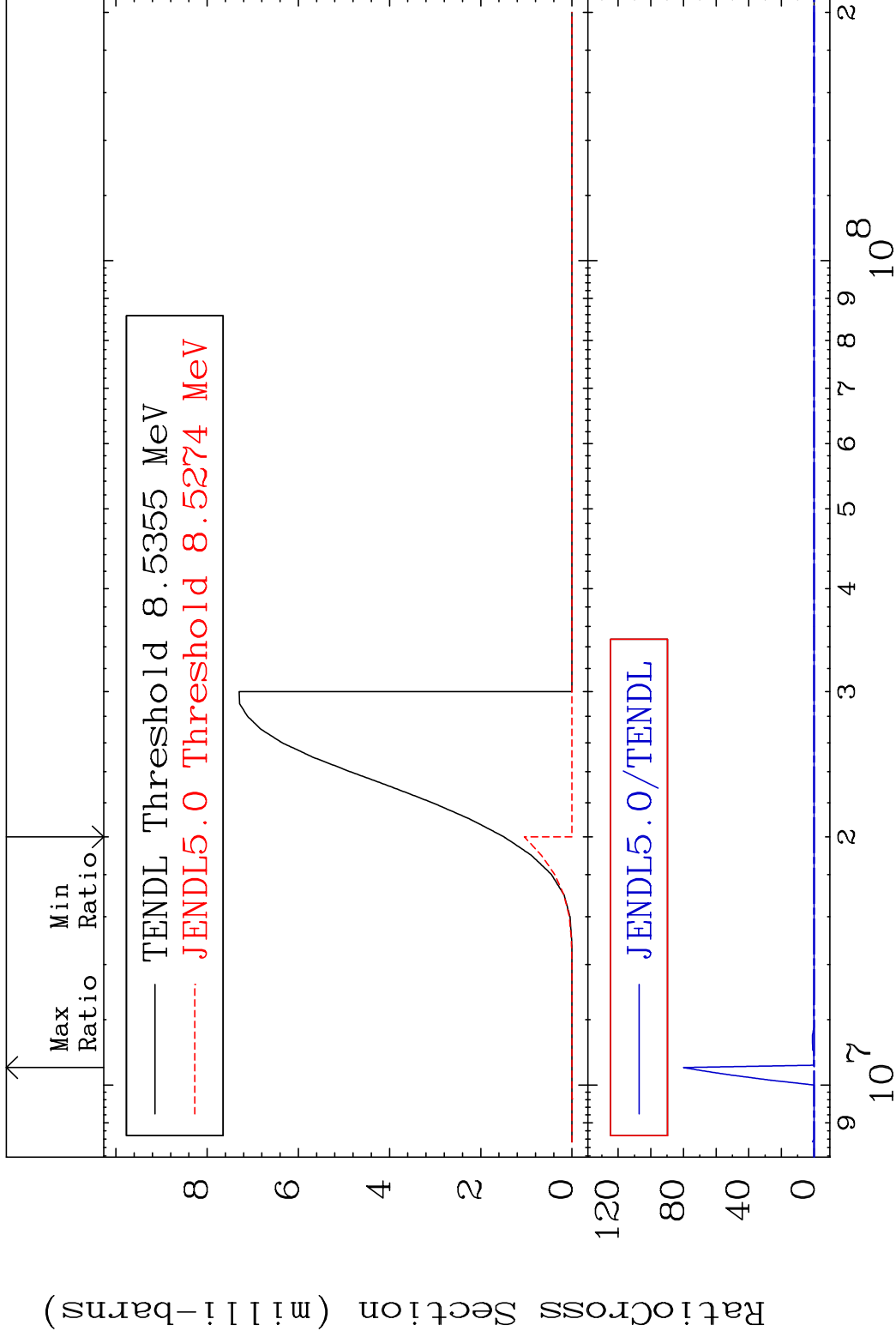


MAT 5425

(n, t)

54-Xe-124

Cross Section -100.0 To 9999. %



23

Incident Energy (eV)

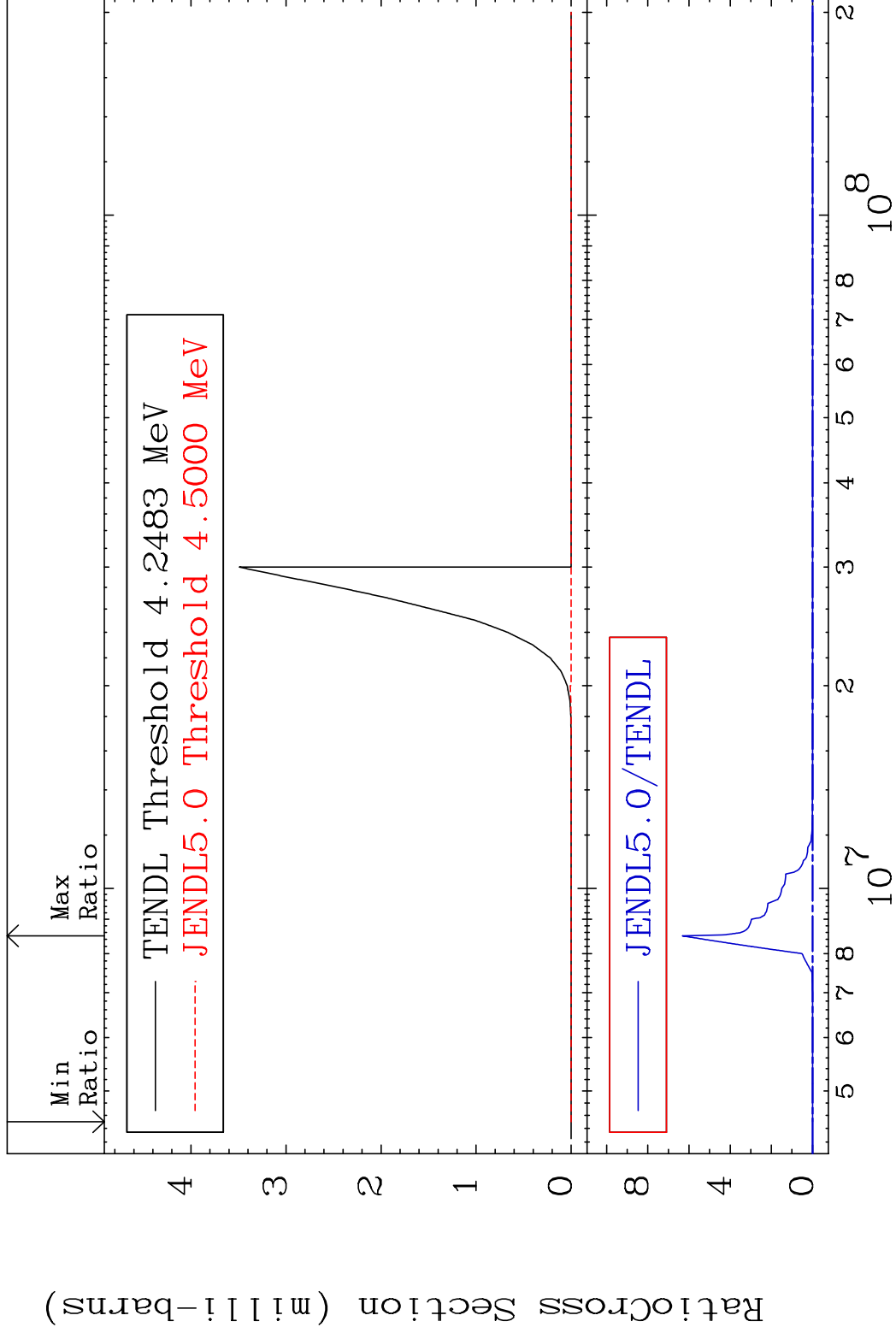
54-Xe-124

MAT 5425

(n, He-3)

54-Xe-124

Cross Section -100.0 To 9999. %



24

Incident Energy (eV)

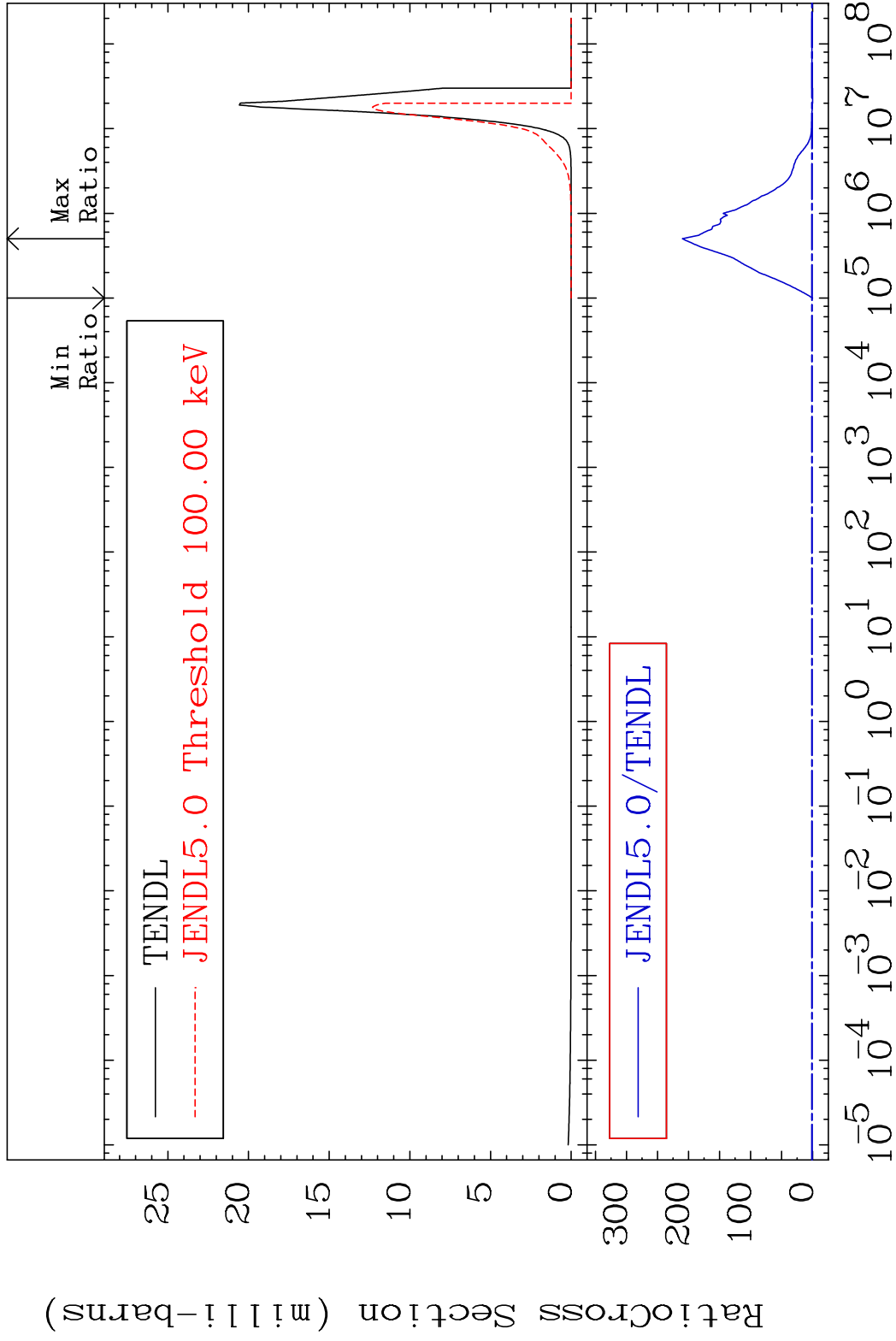
54-Xe-124

MAT 5425

(n, α)

54-Xe-124

Cross Section -100.0 To 9999. %



25

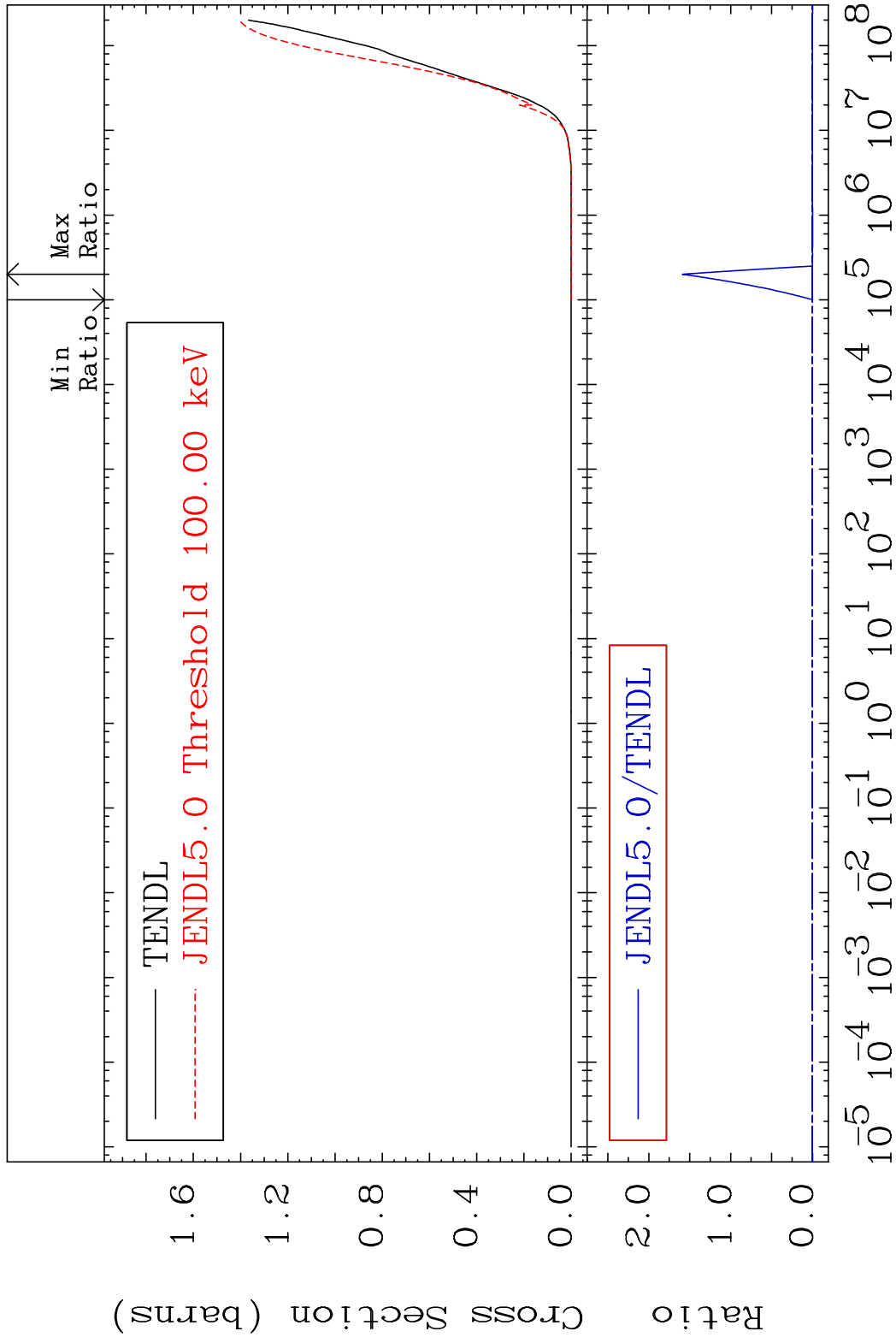
Incident Energy (eV)

54-Xe-124

MAT 5425

Hydrogen Production 54-Xe-124

Cross Section -100.0 To 9999. %



26

Incident Energy (eV)

54-Xe-124

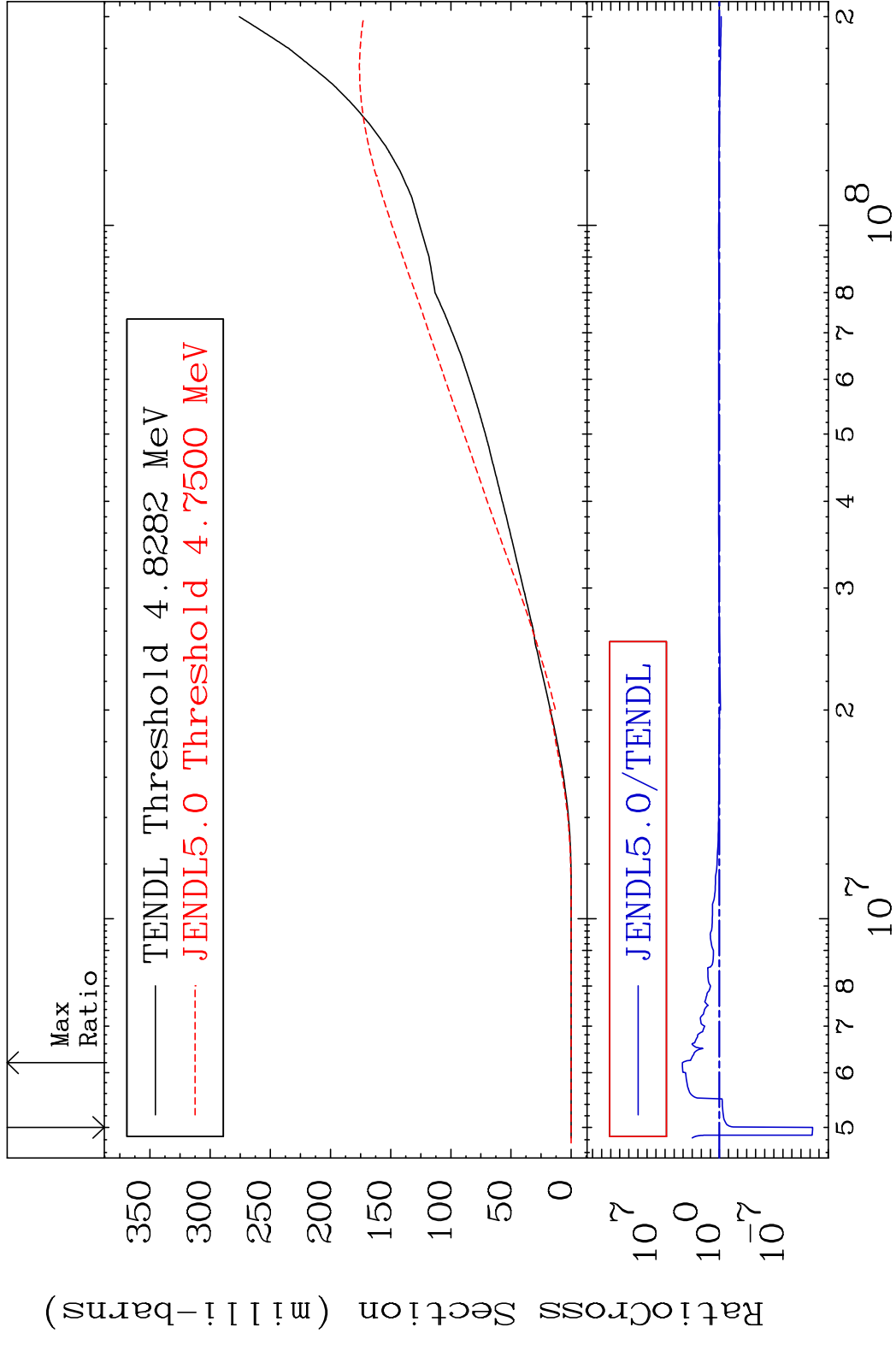
MAT 5425

Deuterium Production

54-Xe-124

Cross Section

-100.0 To 9999. %

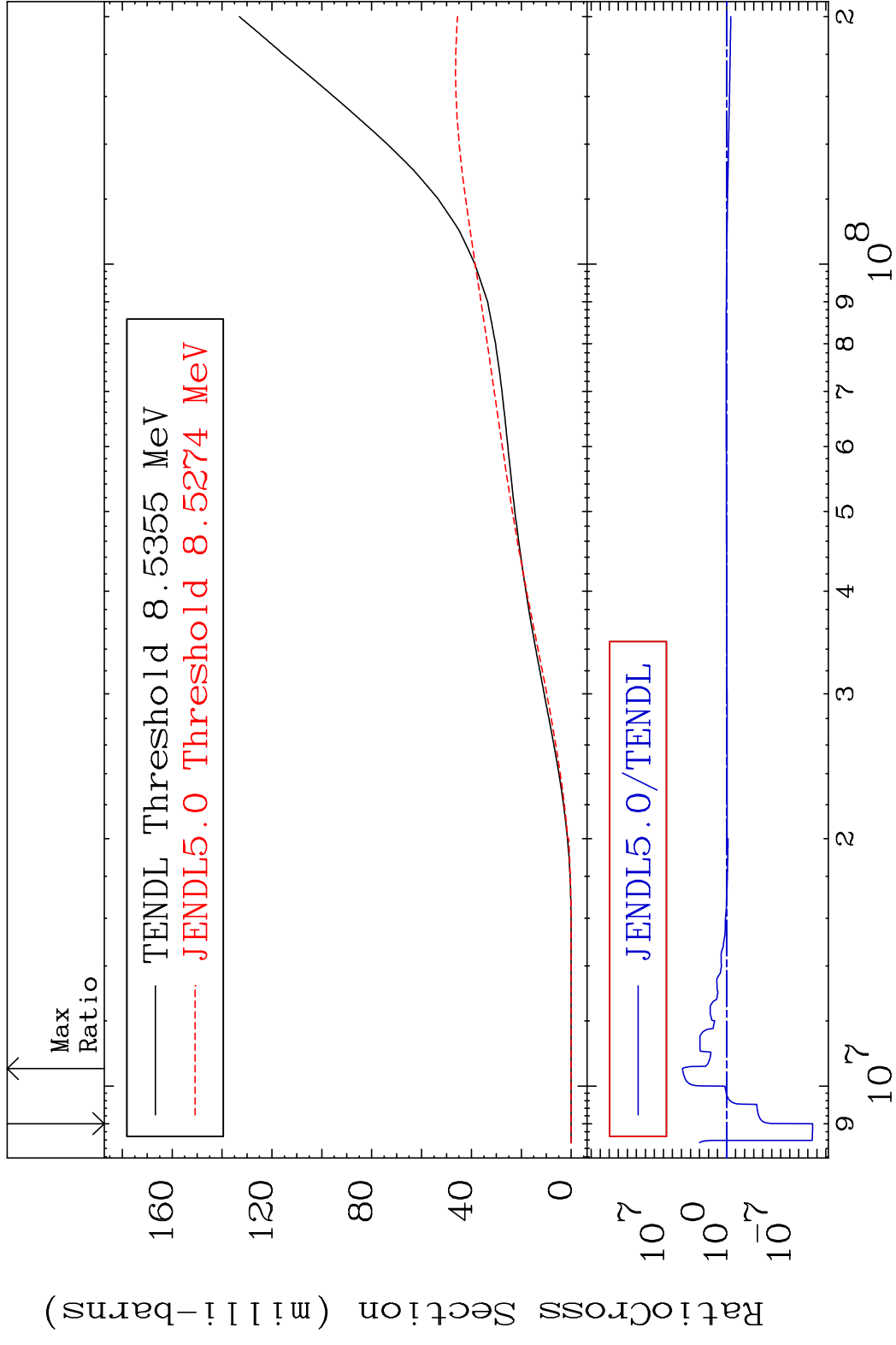


MAT 5425

Tritium Production

54-Xe-124

Cross Section -100.0 To 9999. %



28

Incident Energy (eV)

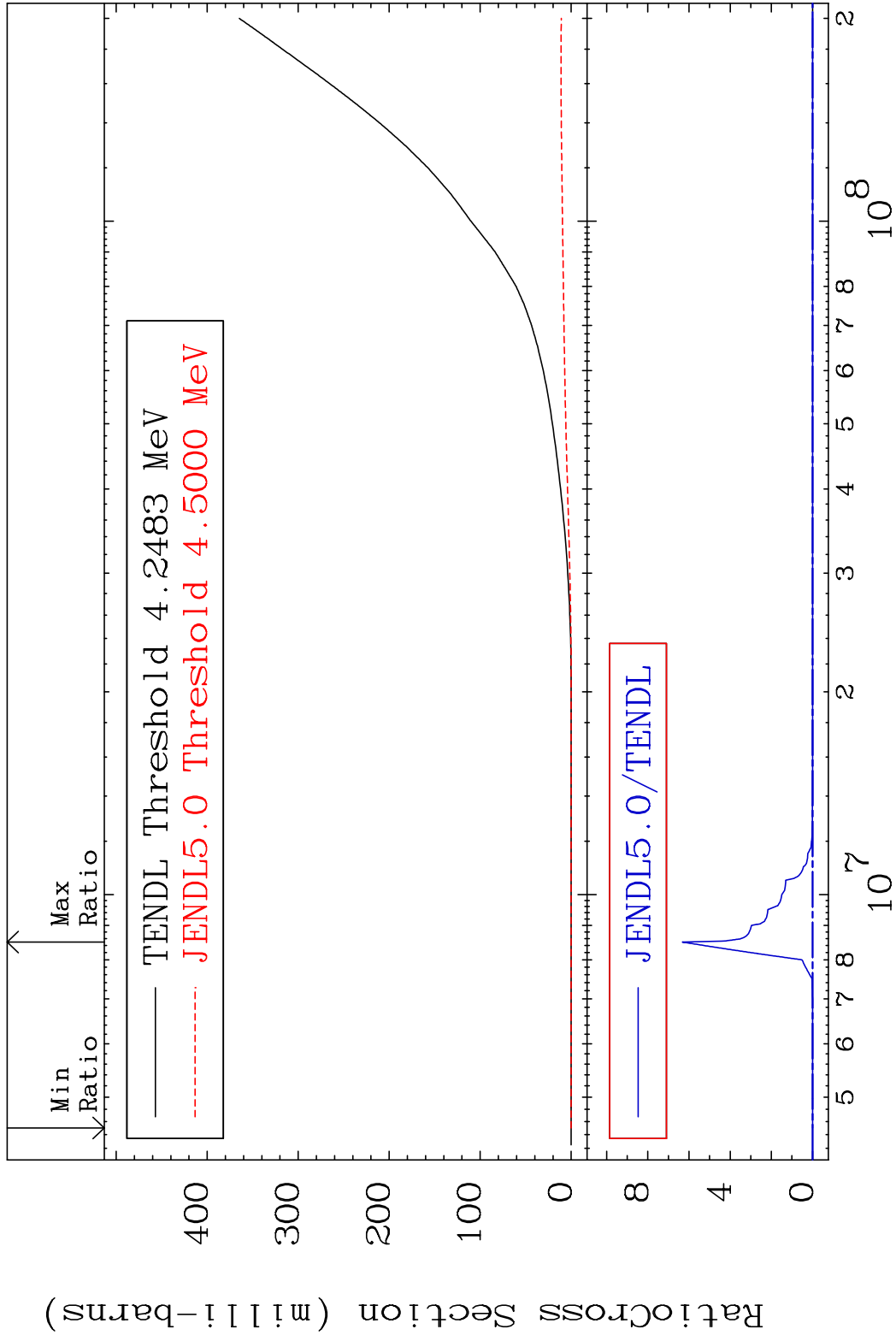
54-Xe-124

MAT 5425

He-3 Production

54-Xe-124

Cross Section -100.0 To 9999. %

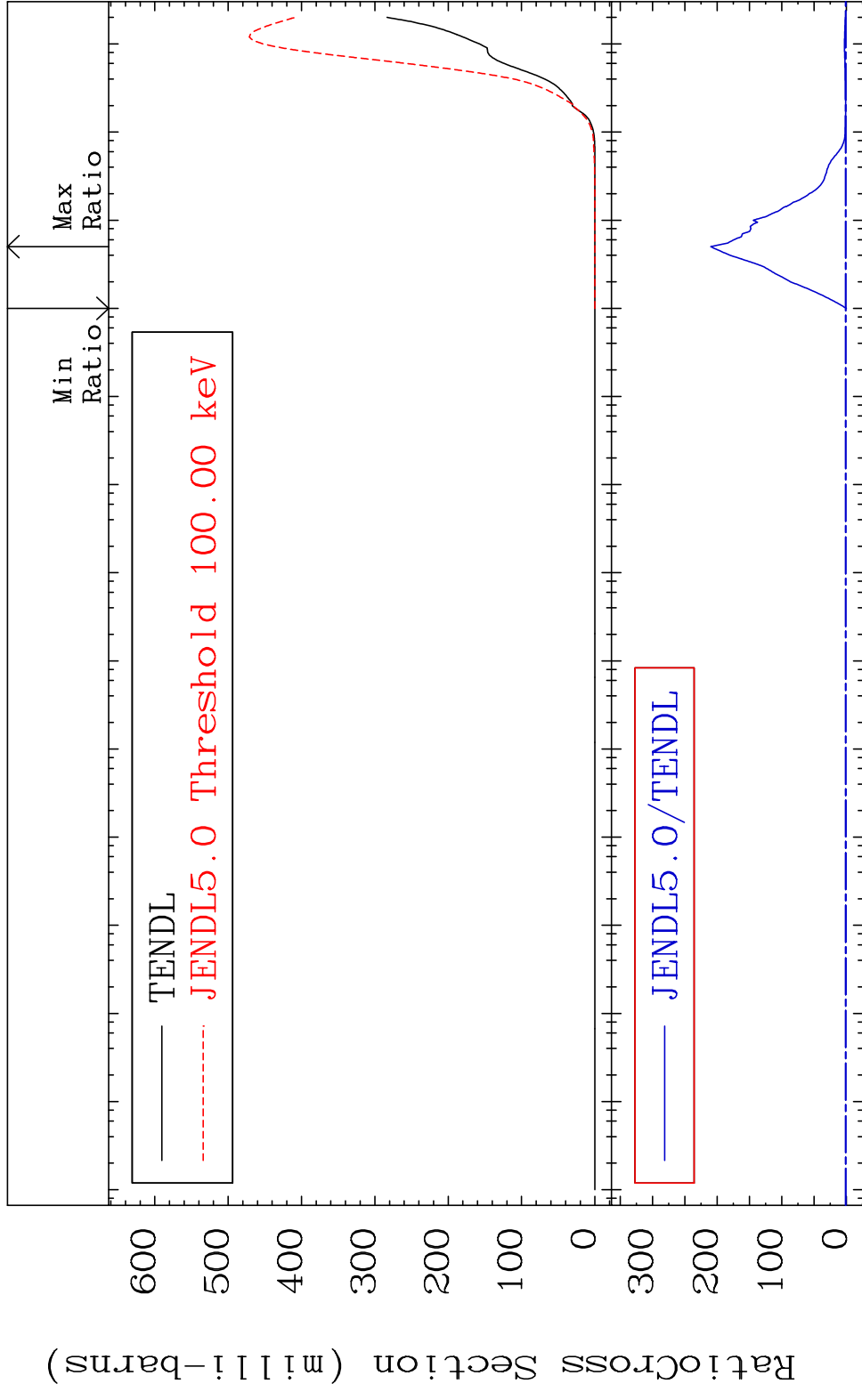


MAT 5425

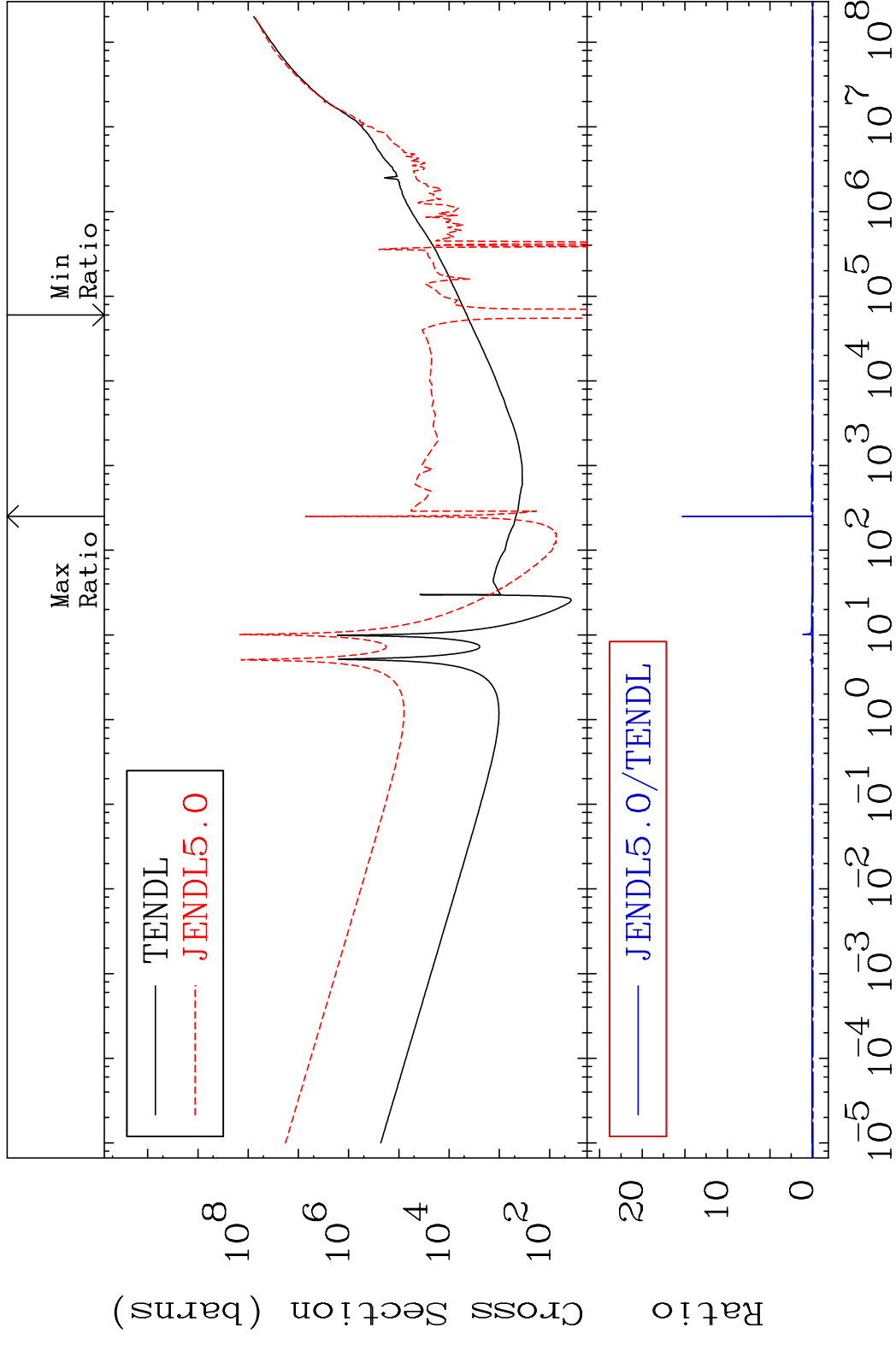
He-4 Production

54-Xe-124

Cross Section -100.0 To 9999. %



MAT 5425 Kerma total (eV-barns) 54-Xe-124
 Cross Section -271.6 To 9999. %

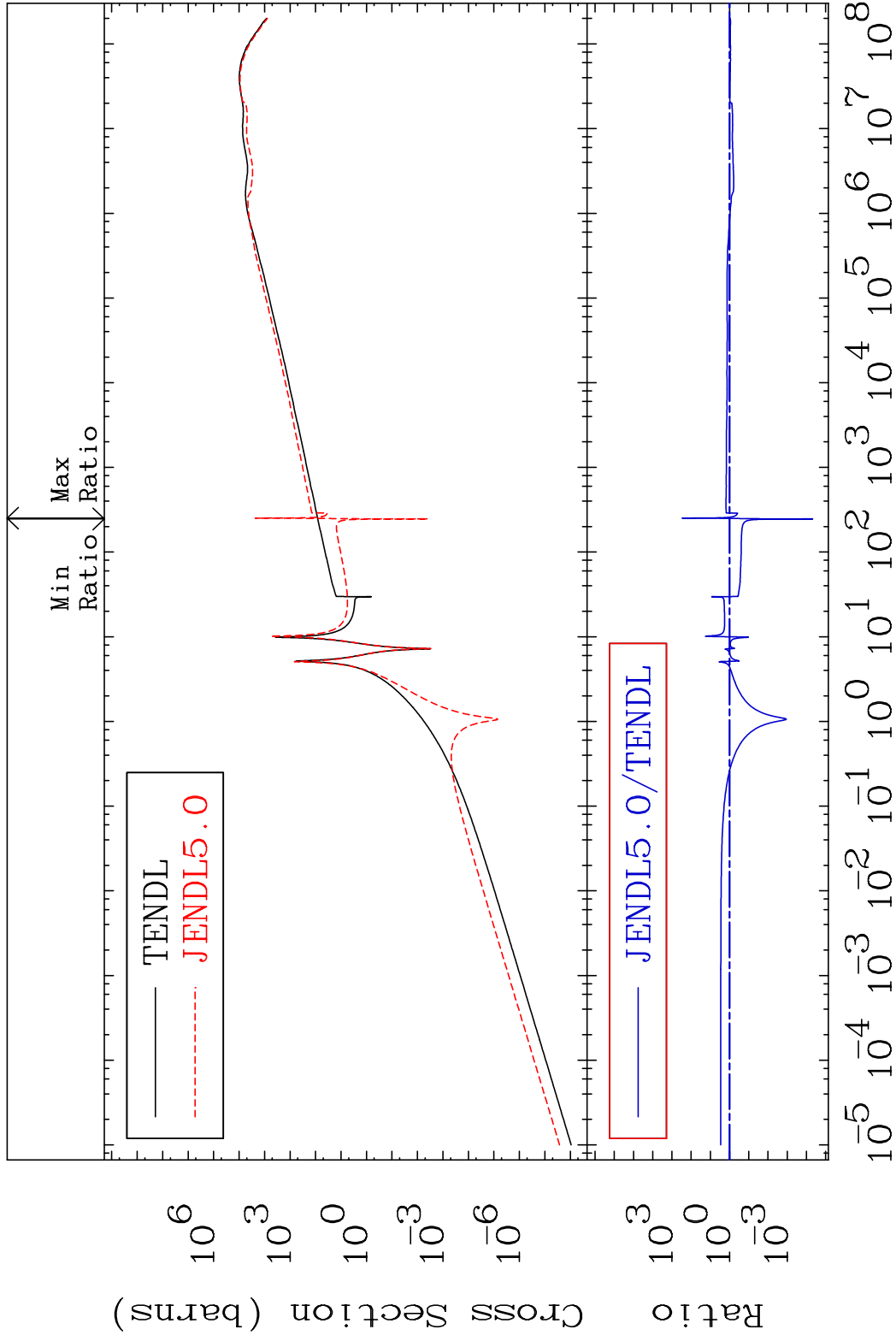


MAT 5425

Kerma elastic

54-Xe-124

Cross Section -100.0 To 9999. %

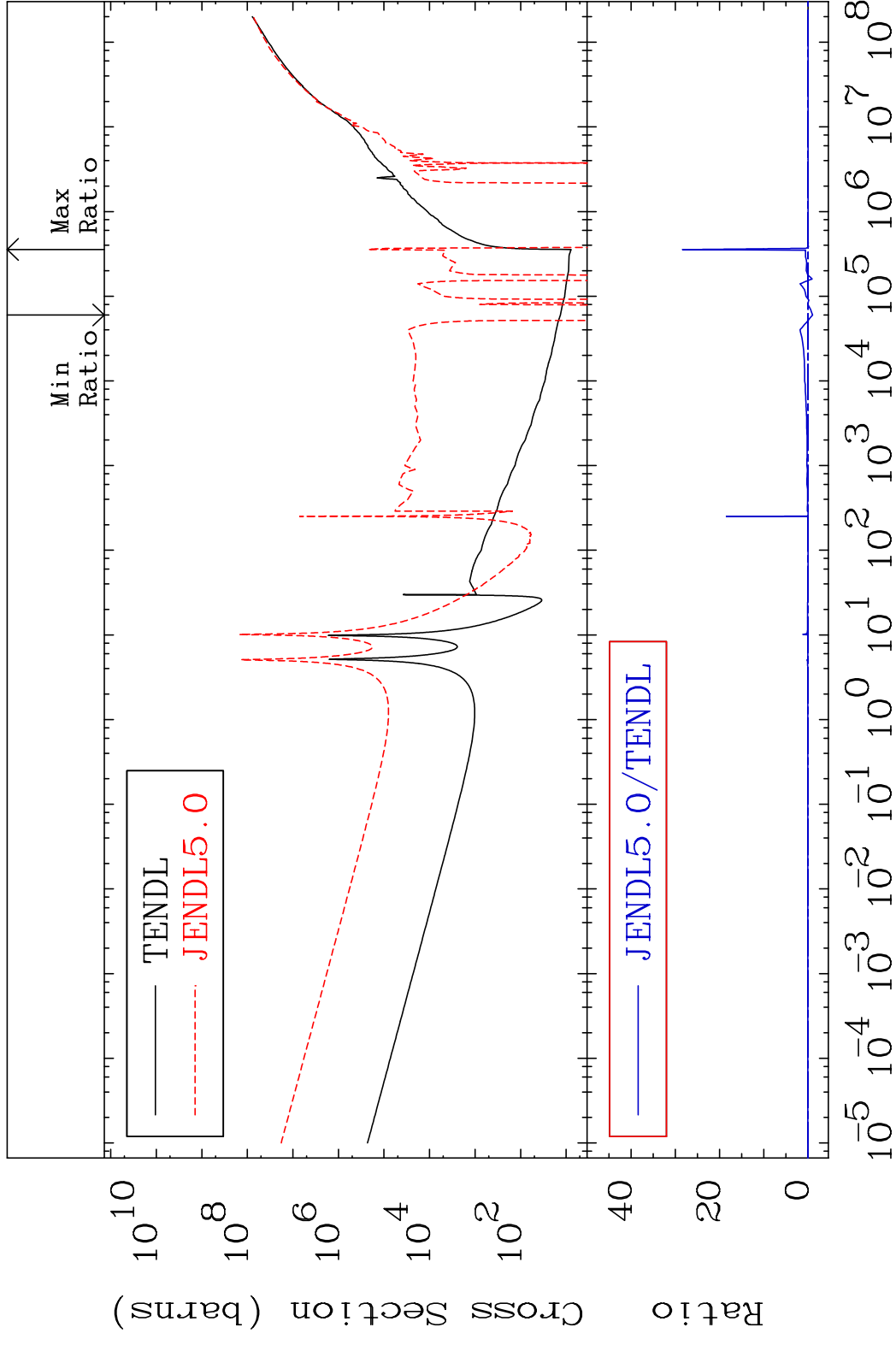


32

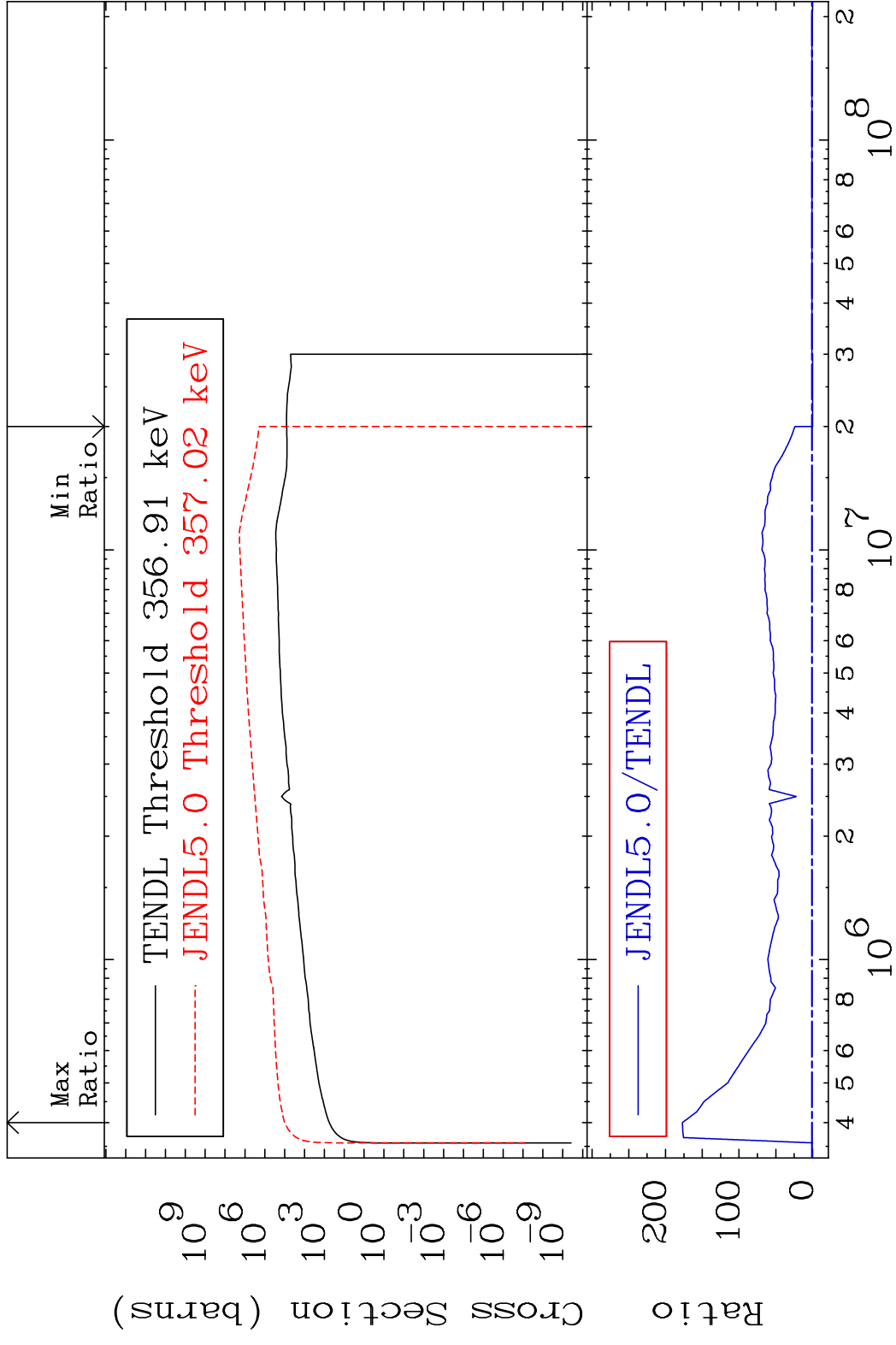
Incident Energy (eV)

54-Xe-124

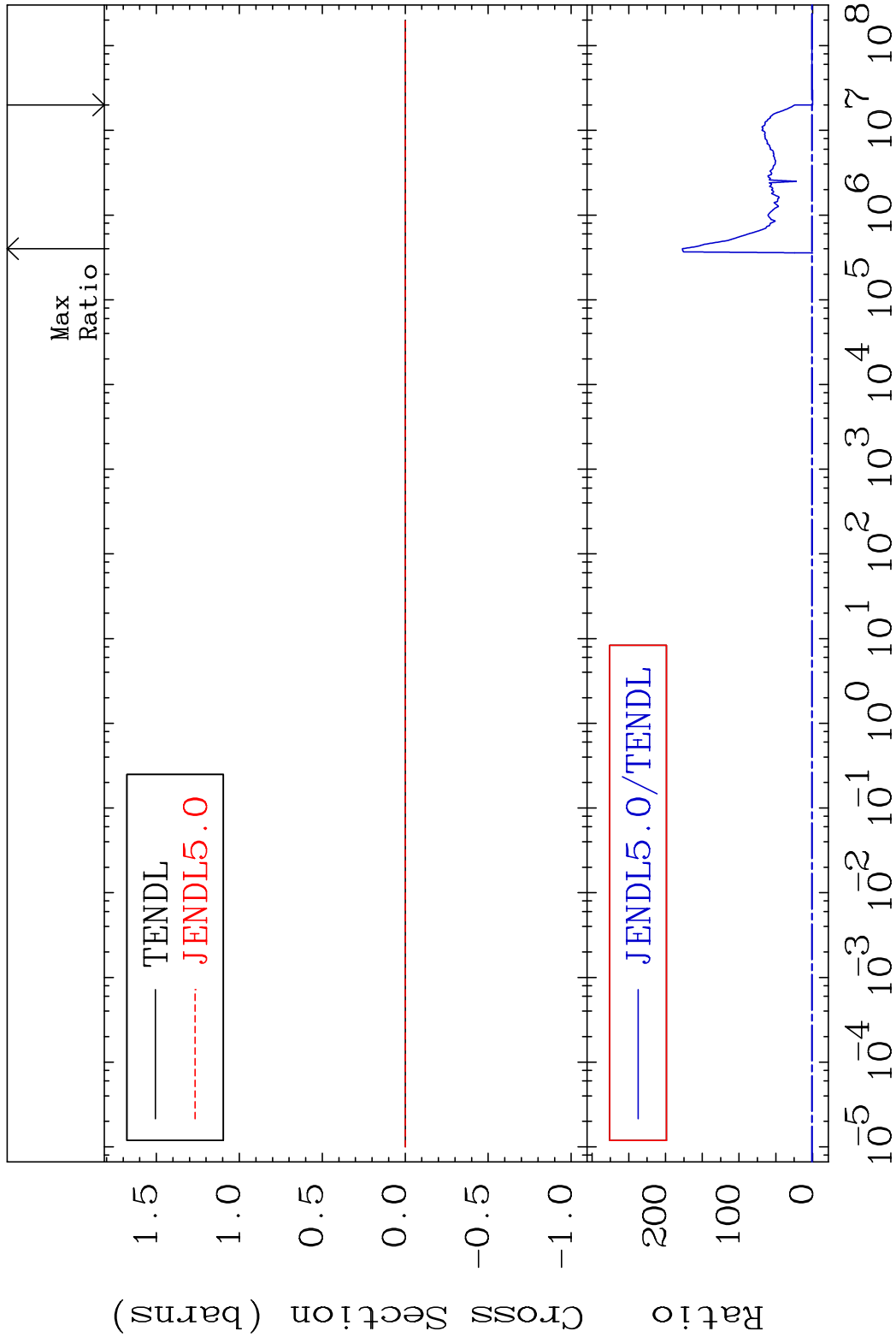
MAT 5425 Kerma non-elastic (all but mt2) 54-Xe-124
 Cross Section -9999. To 9999. %



MAT 5425 Kerma inelastic (mt51-91) 54-Xe-124
 Cross Section -100.0 To 9999. %



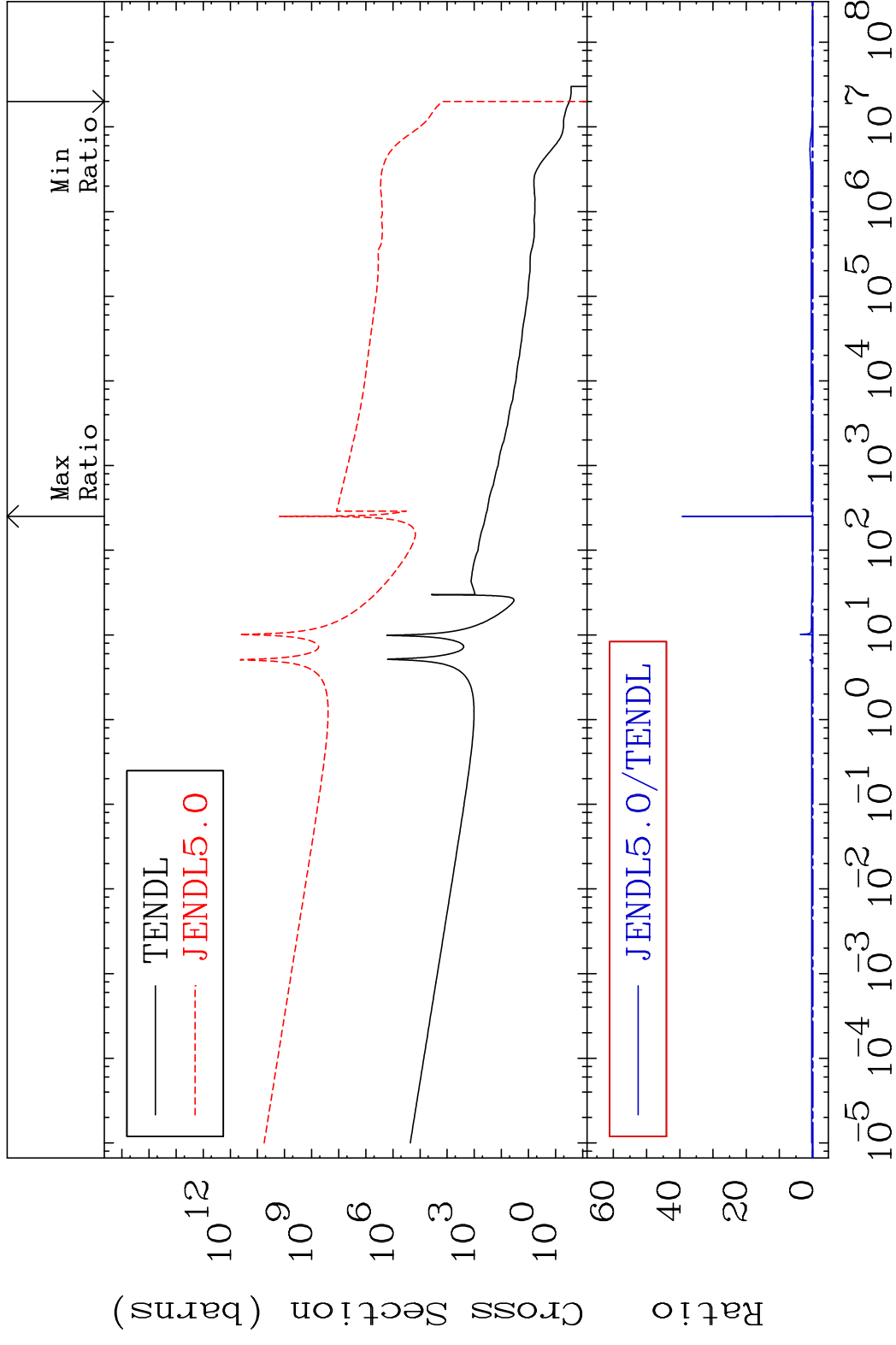
MAT 5425 Kerma fission (mt18 or mt19-20-21-38) 54-Xe-124
 Cross Section -100.0 To 9999. %



MAT 5425

Kerma capture (mt102) 54-Xe-124

Cross Section -100.0 To 9999. %

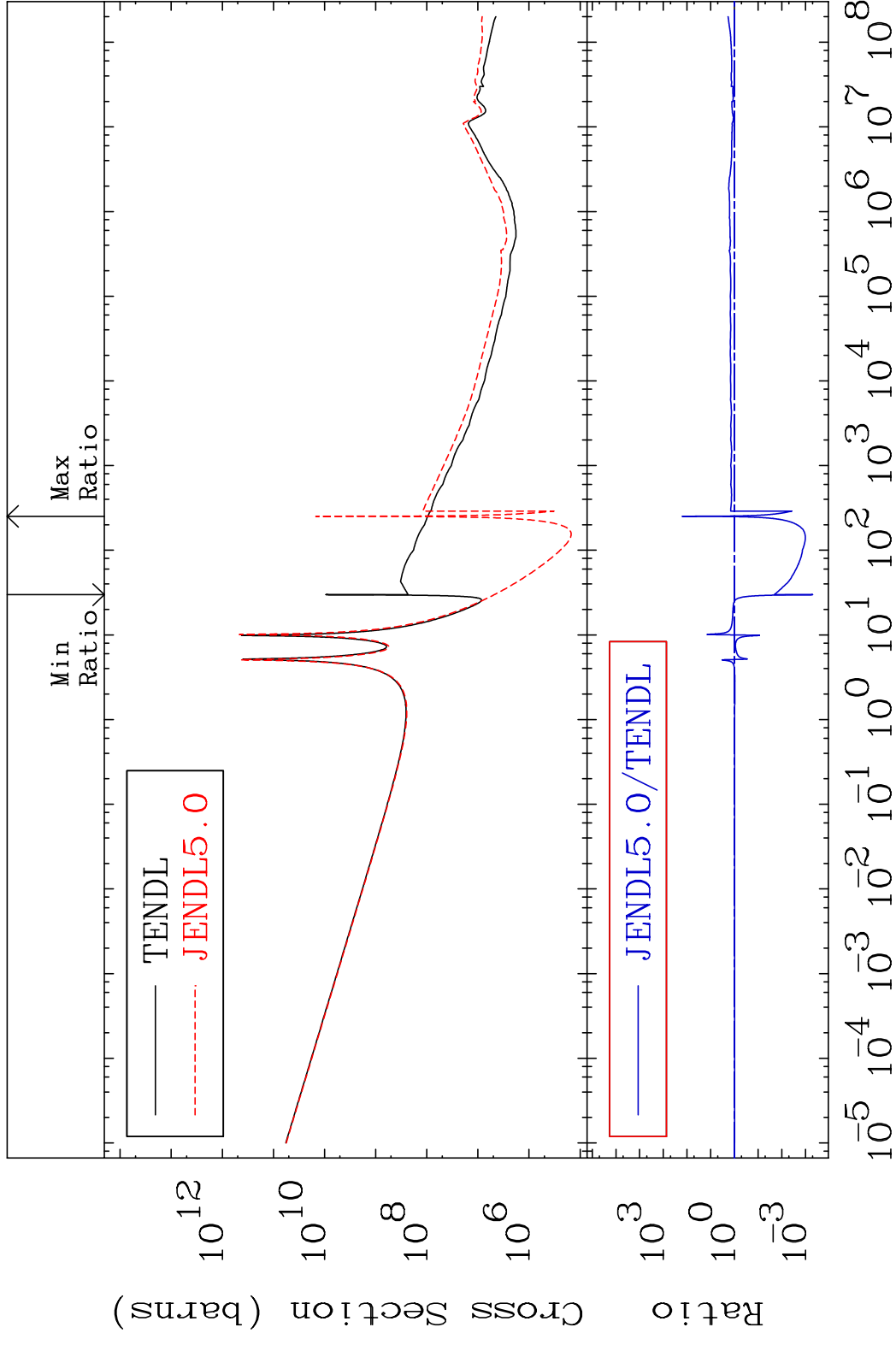


36

Incident Energy (eV)

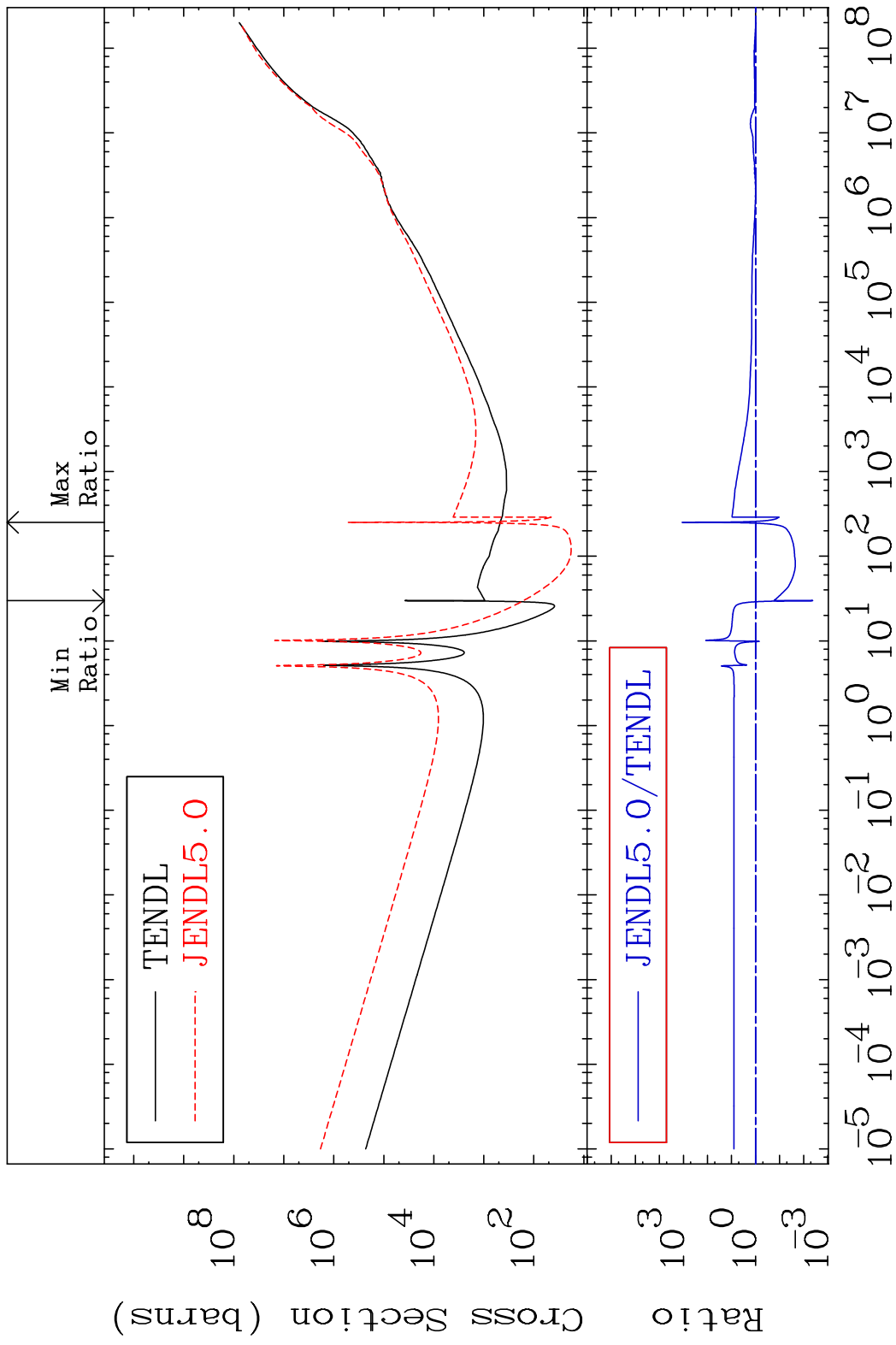
54-Xe-124

MAT 5425 Total photon (eV-barns) 54-Xe-124
 Cross Section -99.95 To 9999. %



37 Incident Energy (eV) 54-Xe-124

MAT 5425 Total kinematic kerma (high limit) 54-Xe-124
 Cross Section -99.58 To 9999. %

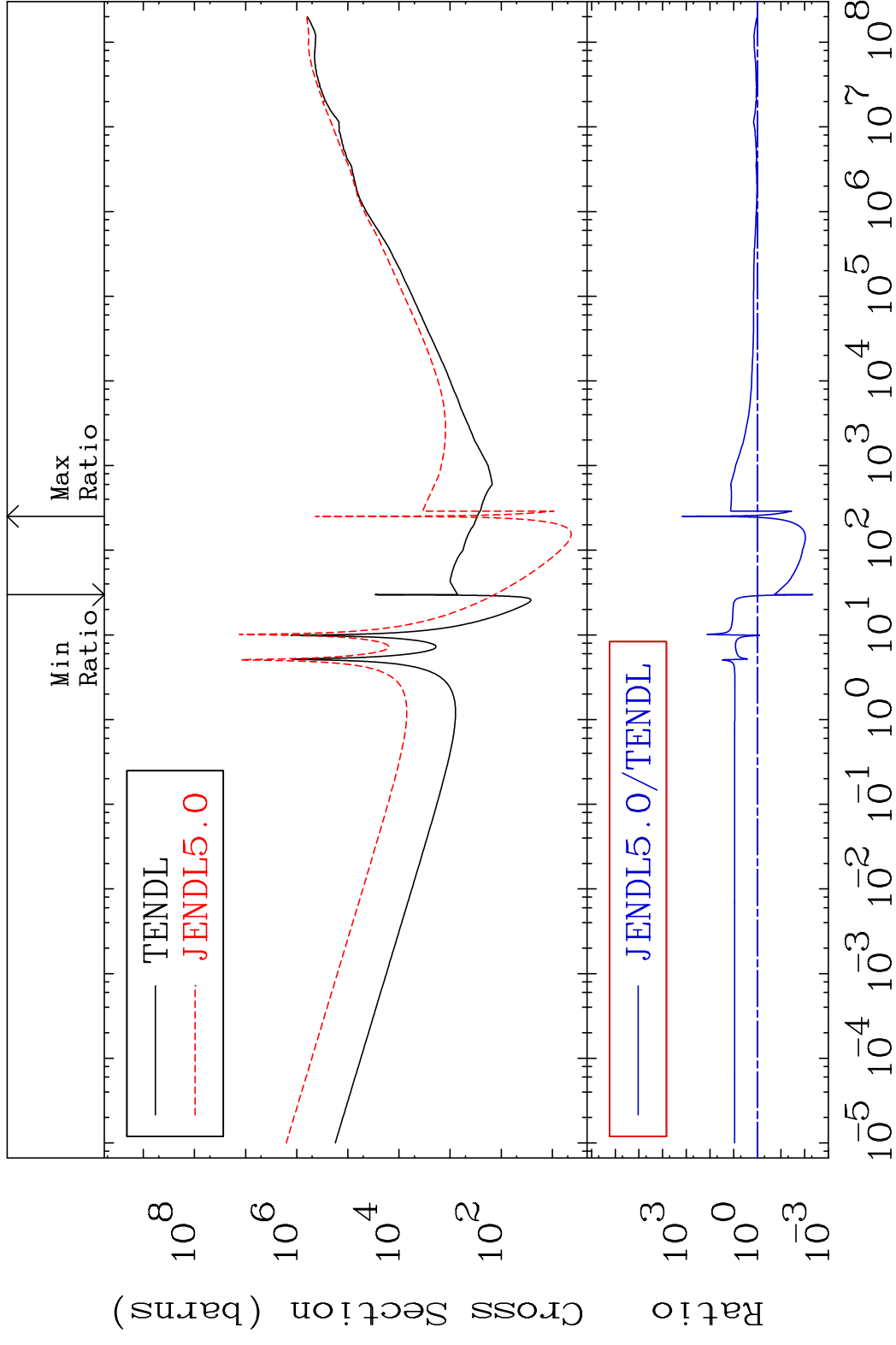


MAT 5425

Dpa total (eV-barns)

54-Xe-124

Cross Section -99.54 To 9999. %



39

Incident Energy (eV)

54-Xe-124

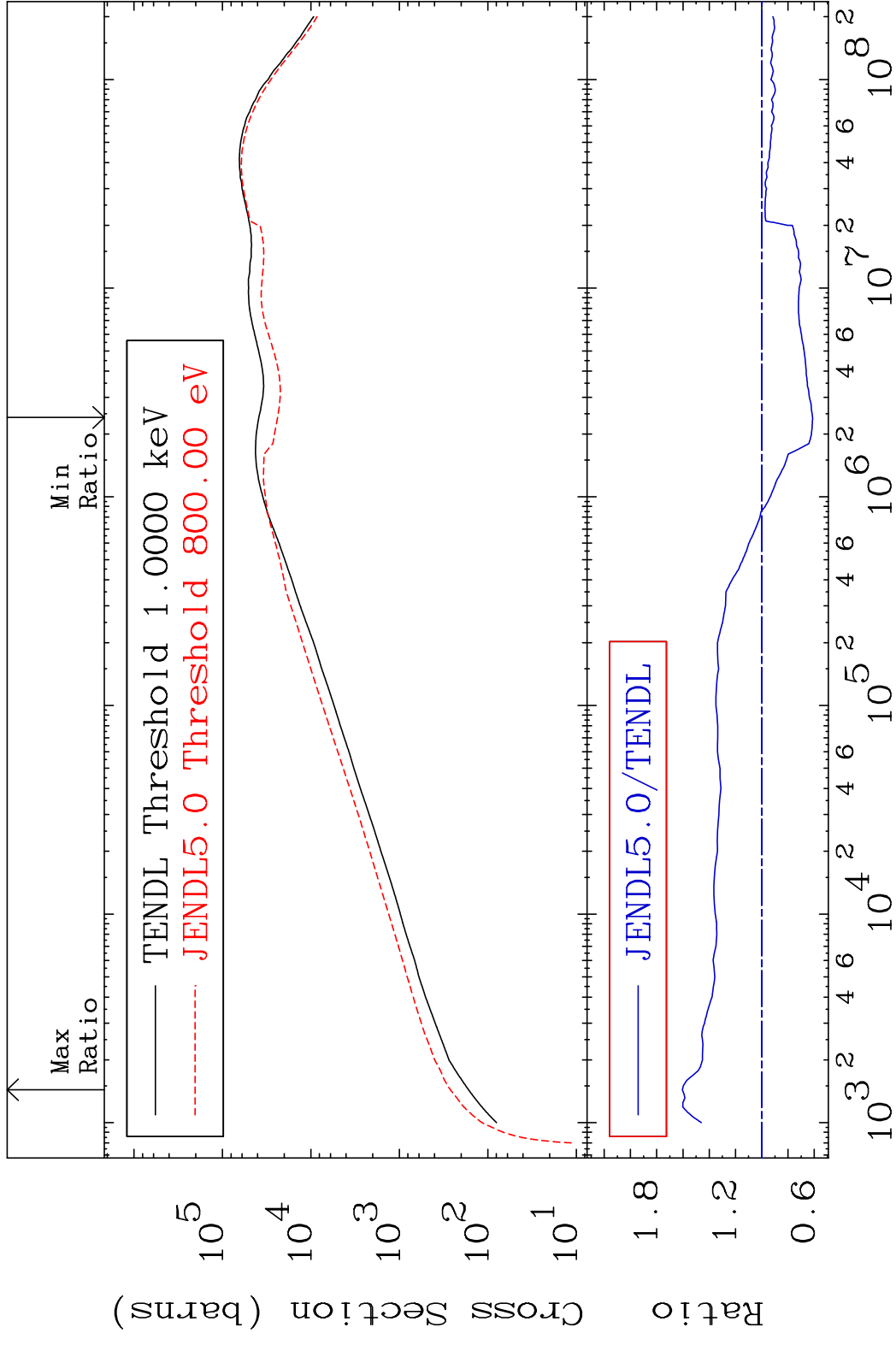
MAT 5425

Dpa elastic (mt2)

54-Xe-124

Cross Section

-38.70 To 60.47 %

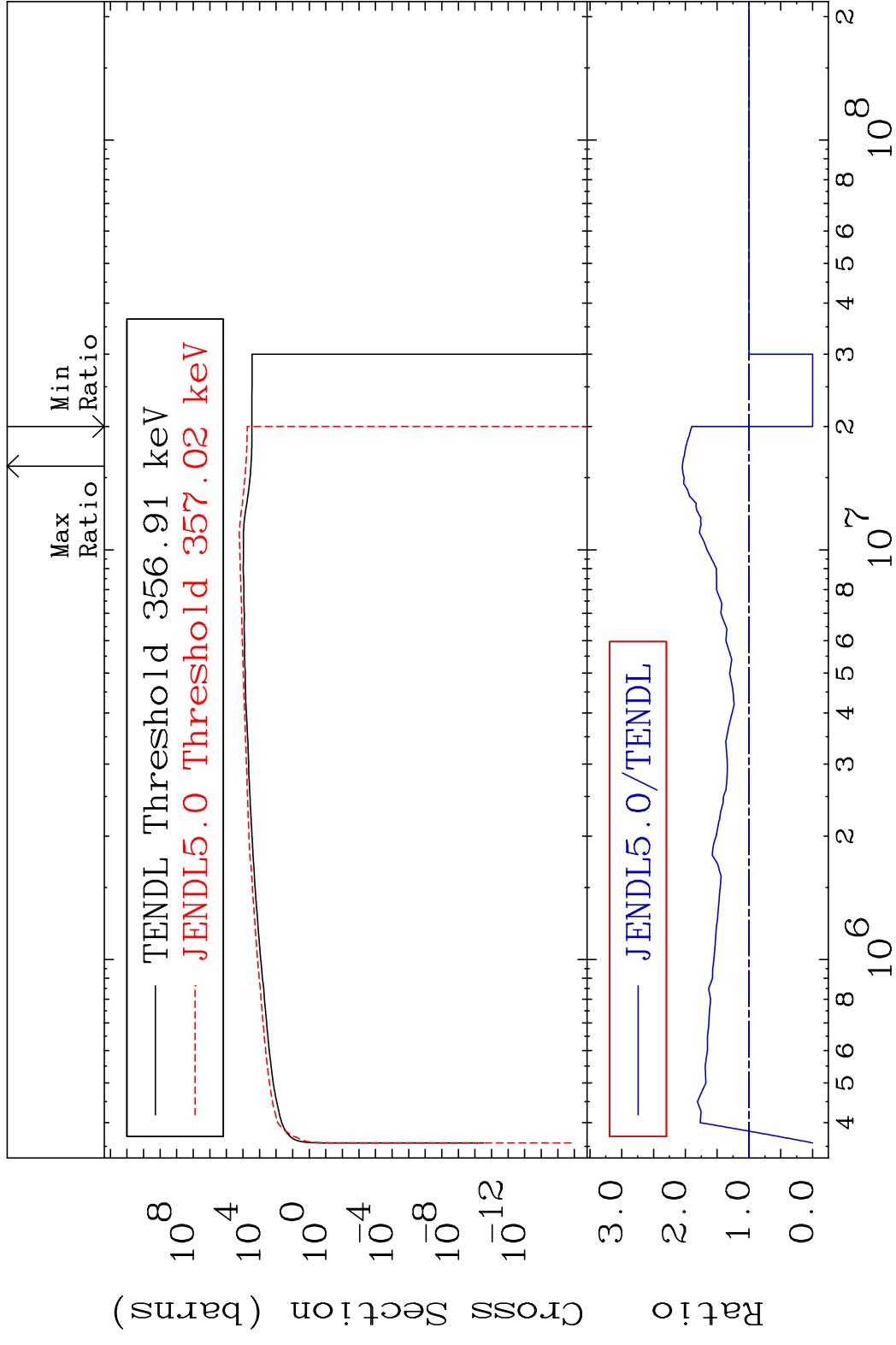


40

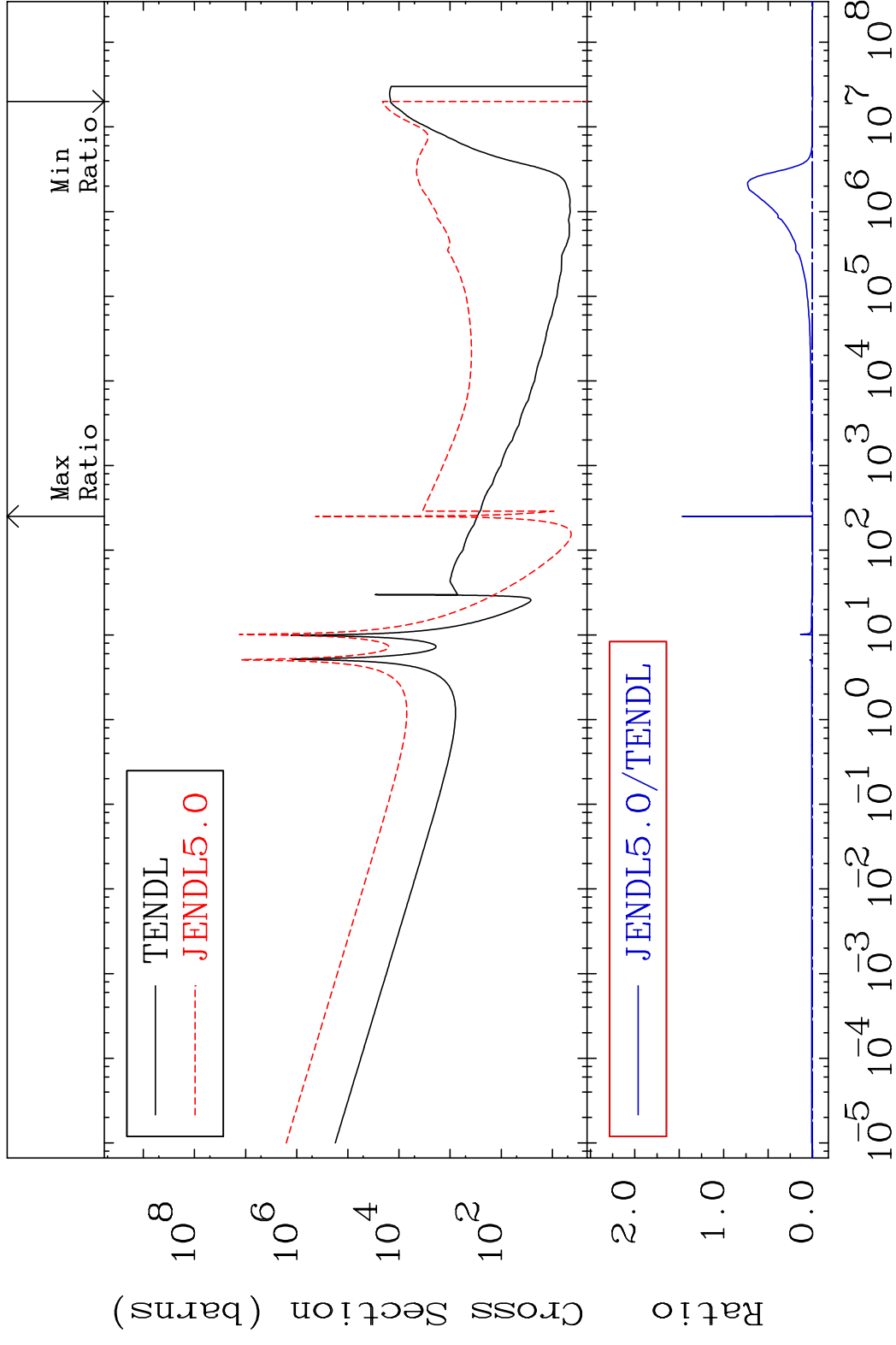
Incident Energy (eV)

54-Xe-124

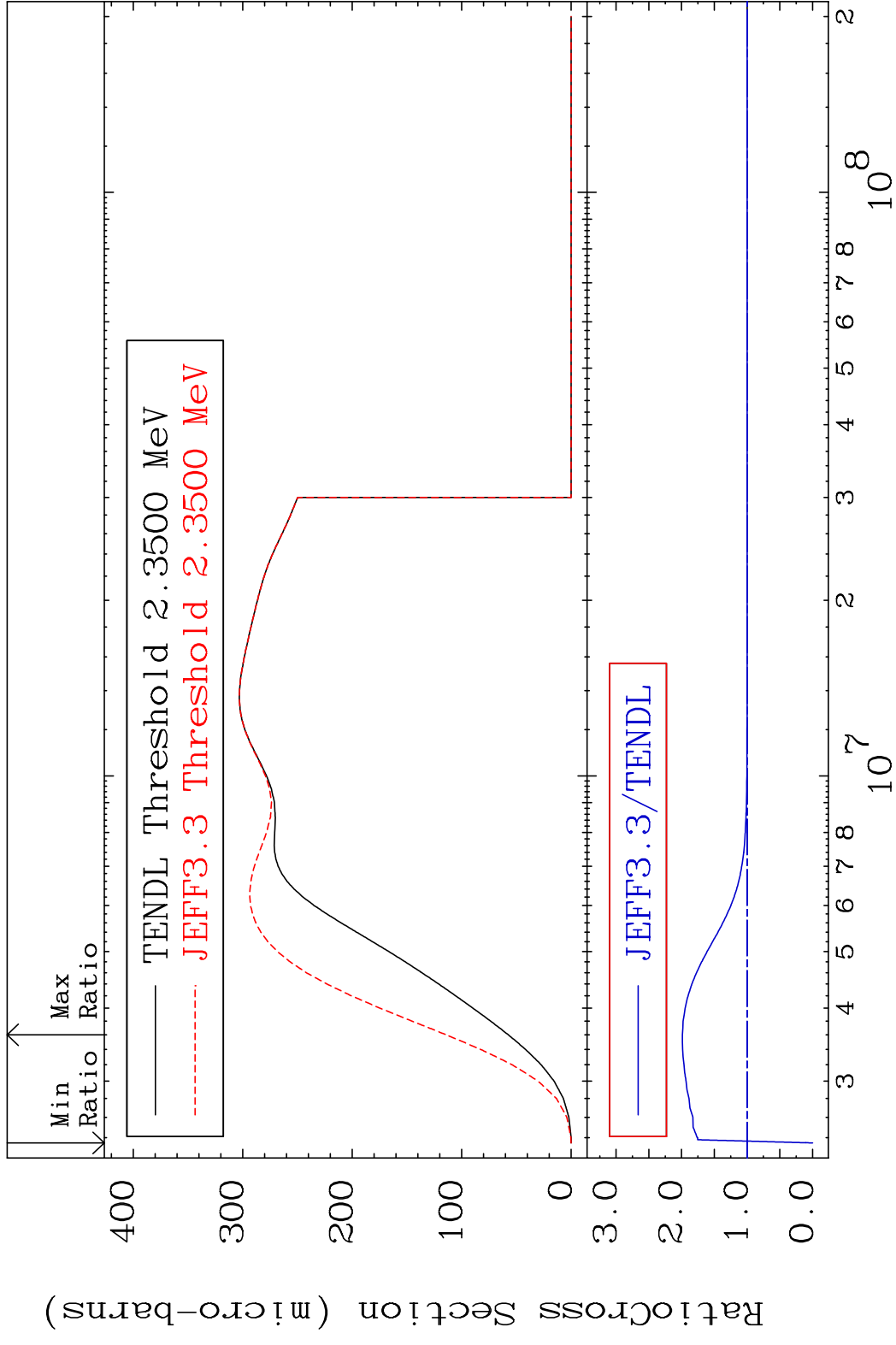
MAT 5425 Dpa inelastic (mt51-91) 54-Xe-124
 Cross Section -100.0 To 104.7 %



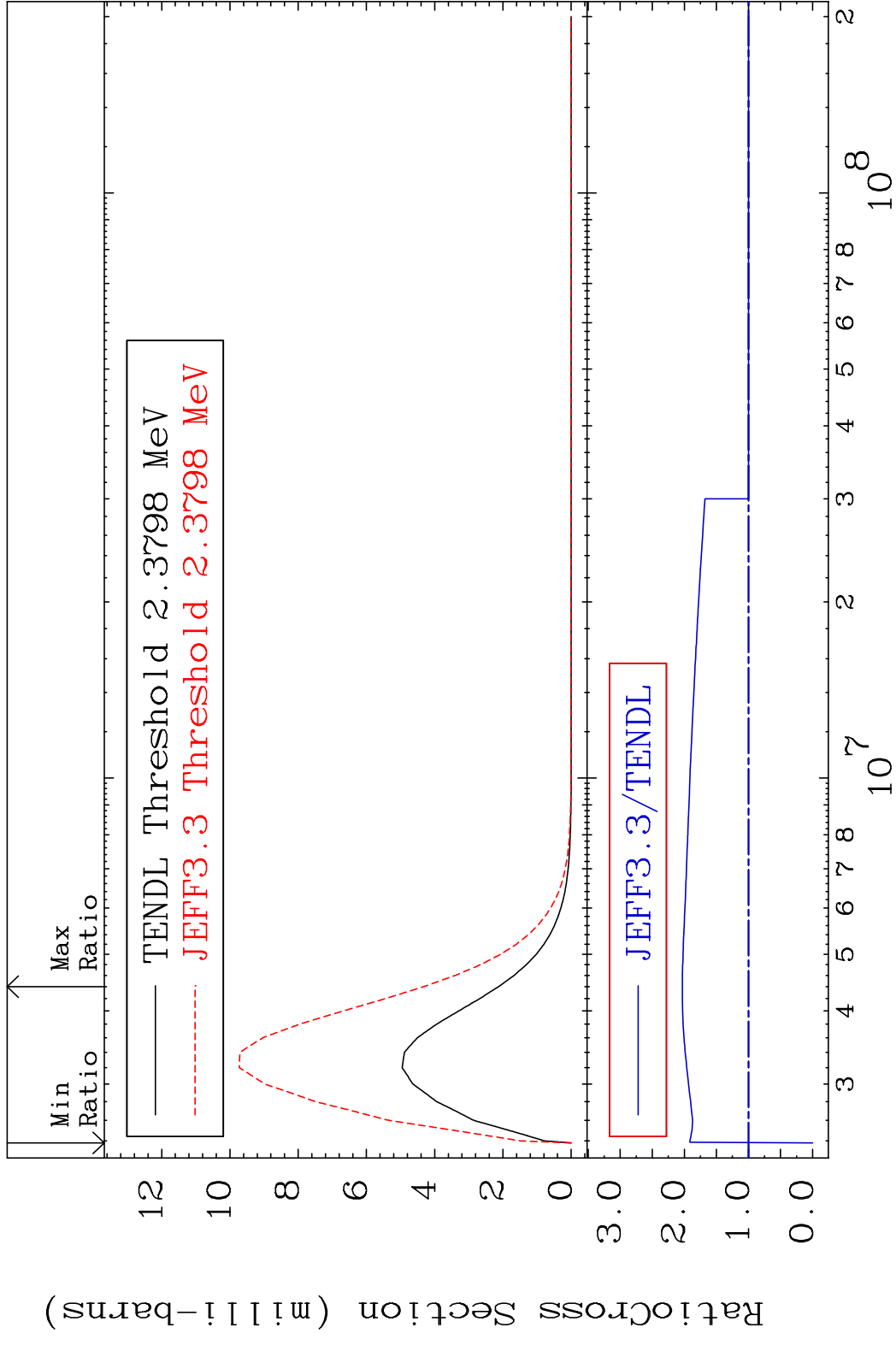
MAT 5425 Dpa disappearance (mt102 -120) 54-Xe-124
 Cross Section -100.0 To 9999. %



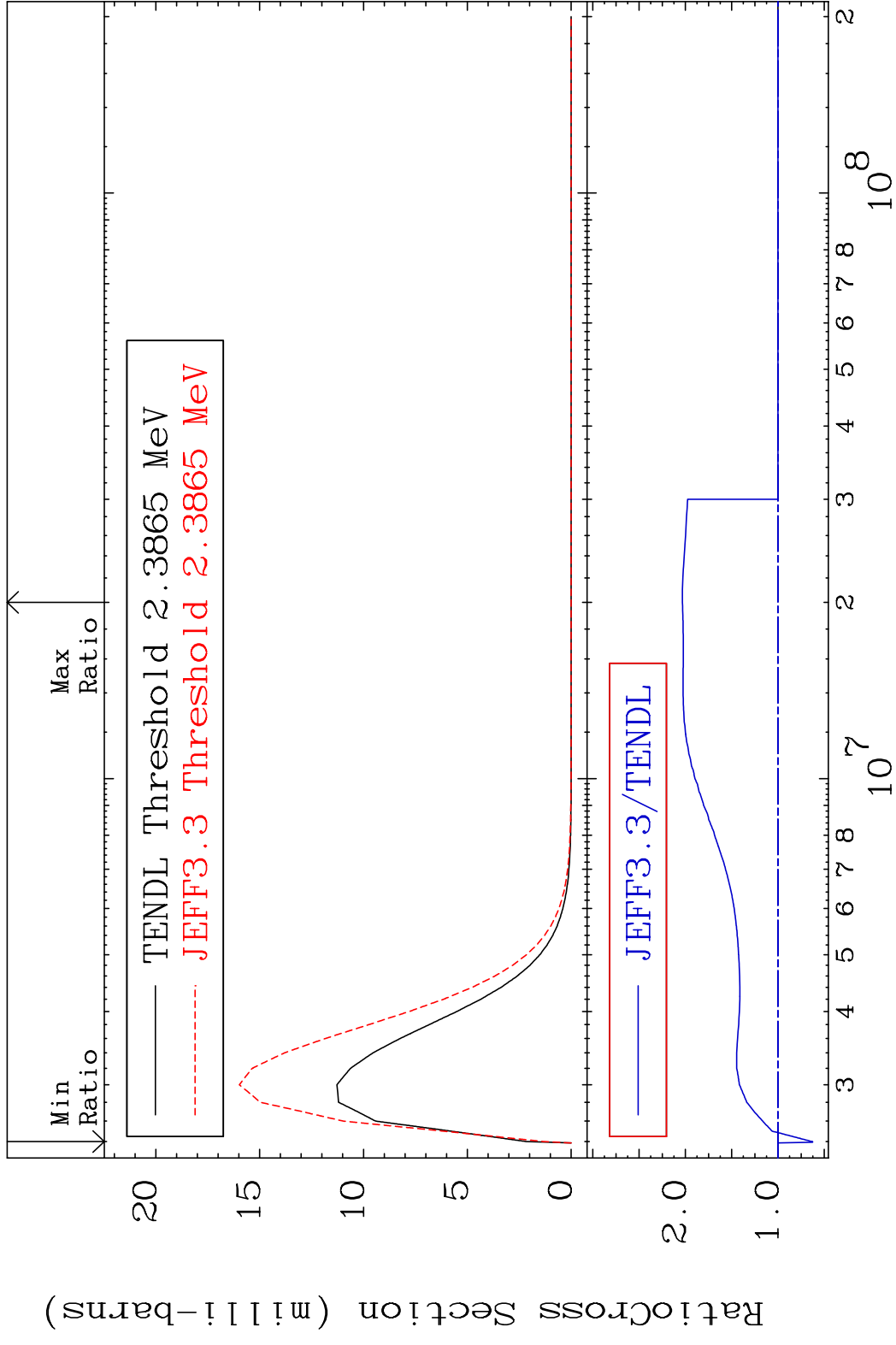
MAT 5425 MT= 75 (n, n') Level 54-Xe-124
 Cross Section -100.0 To 98.83 %



MAT 5425 MT= 76 (n, n') Level 54-Xe-124
 Cross Section -100.0 To 103.1 %

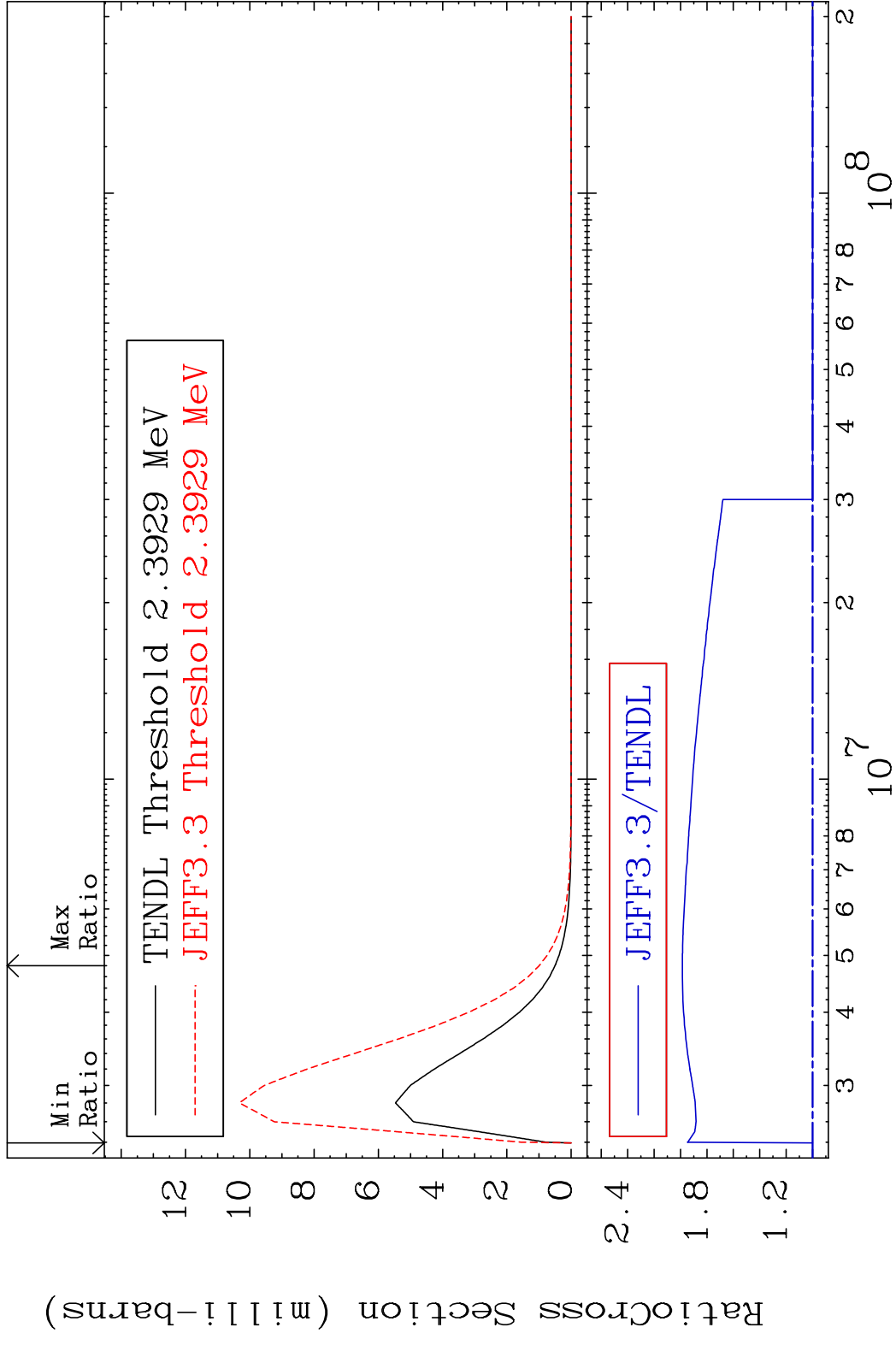


MAT 5425 MT= 77 (n, n') Level 54-Xe-124
 Cross Section -37.30 To 103.3 %

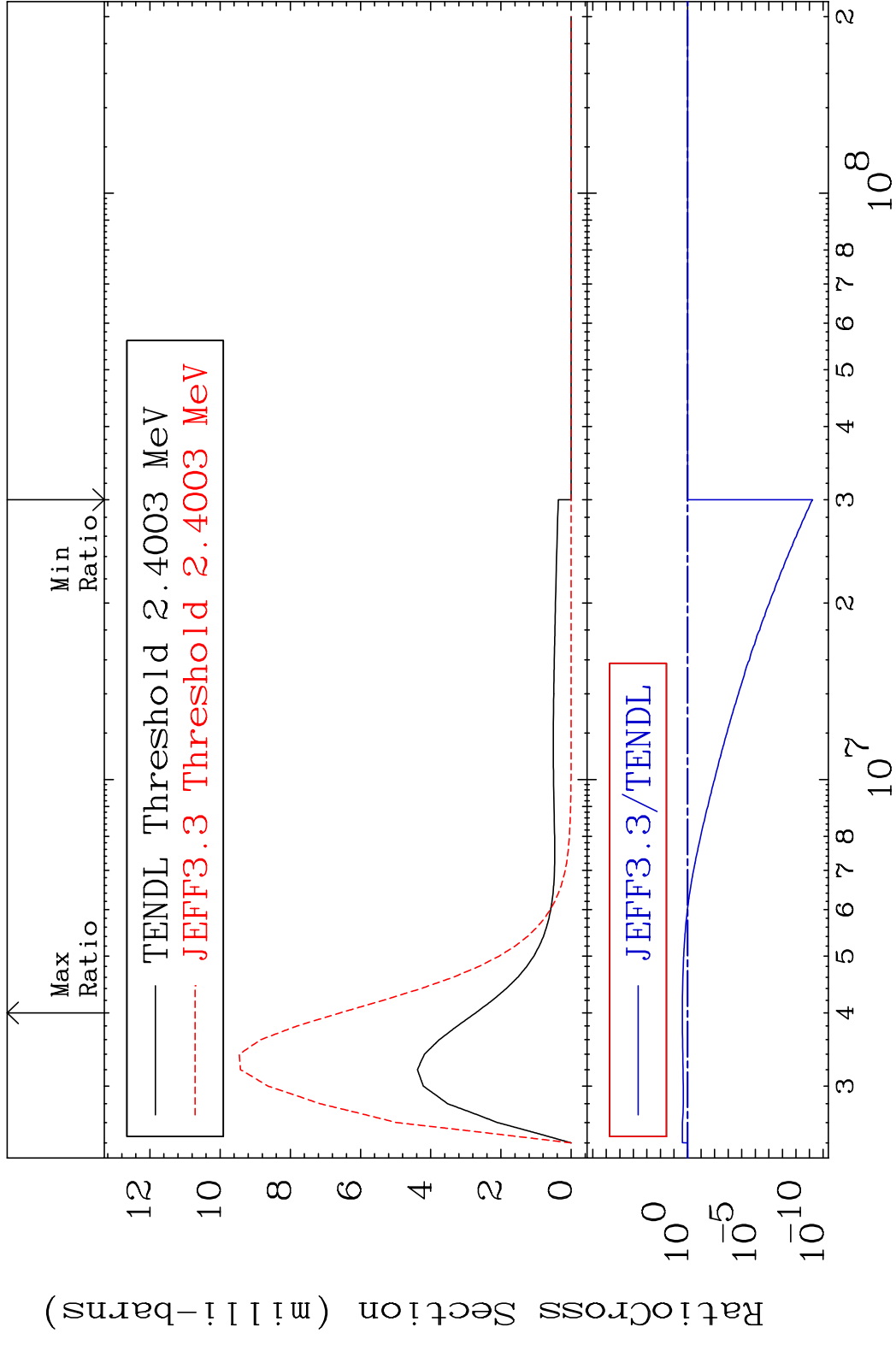


45 54-Xe-124

MAT 5425 MT= 78 (n, n') Level 54-Xe-124
 Cross Section 0.000 To 98.61 %

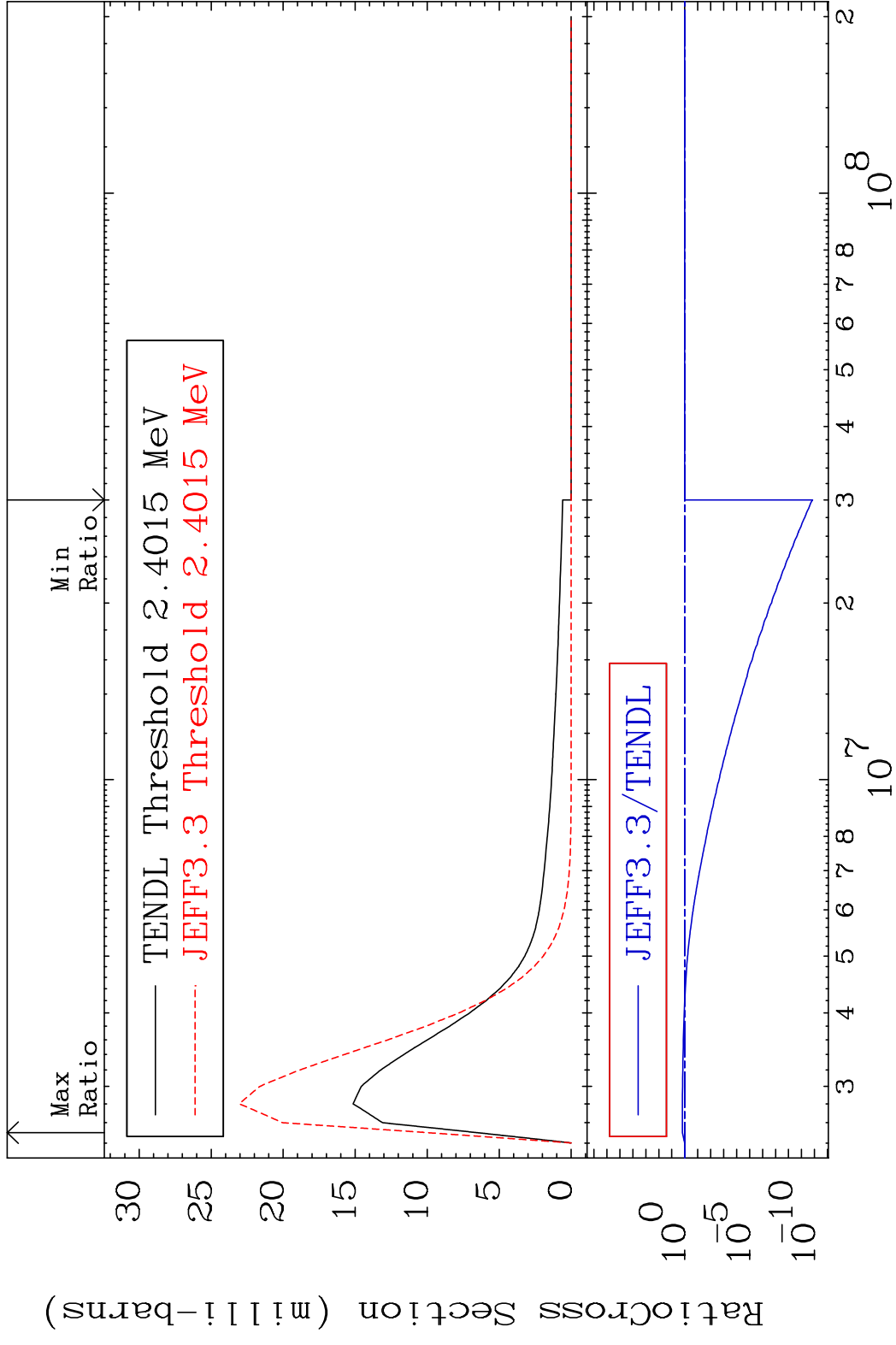


MAT 5425 MT= 79 (n, n') Level 54-Xe-124
 Cross Section -100.0 To 141.9 %



47 Incident Energy (eV) 54-Xe-124

MAT 5425 MT= 80 (n, n') Level 54-Xe-124
 Cross Section -100.0 To 52.99 %



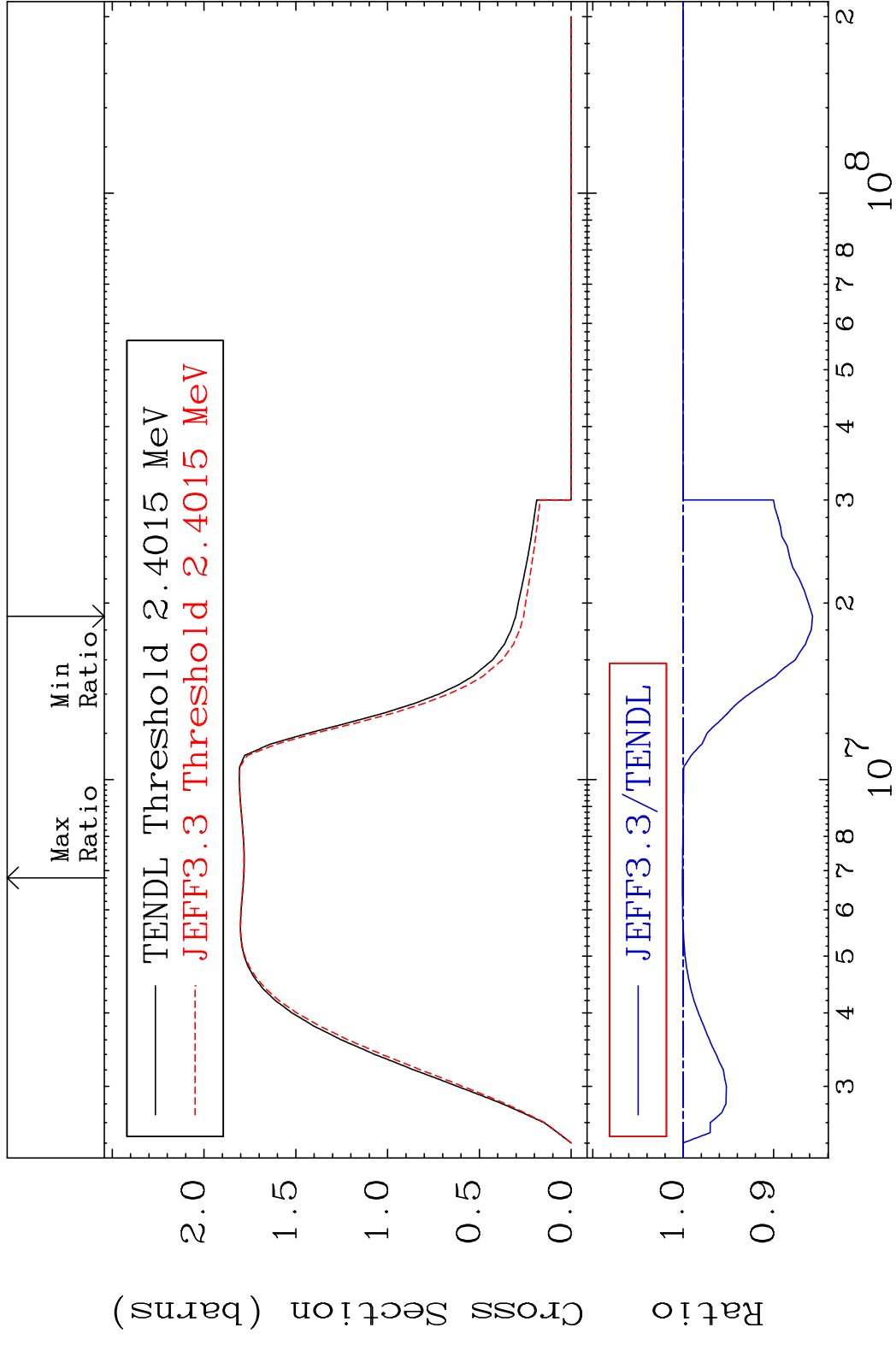
48 Incident Energy (eV) 54-Xe-124

MAT 5425

(n, n') Continuum

54-Xe-124

Cross Section -14.31 To 0.087 %

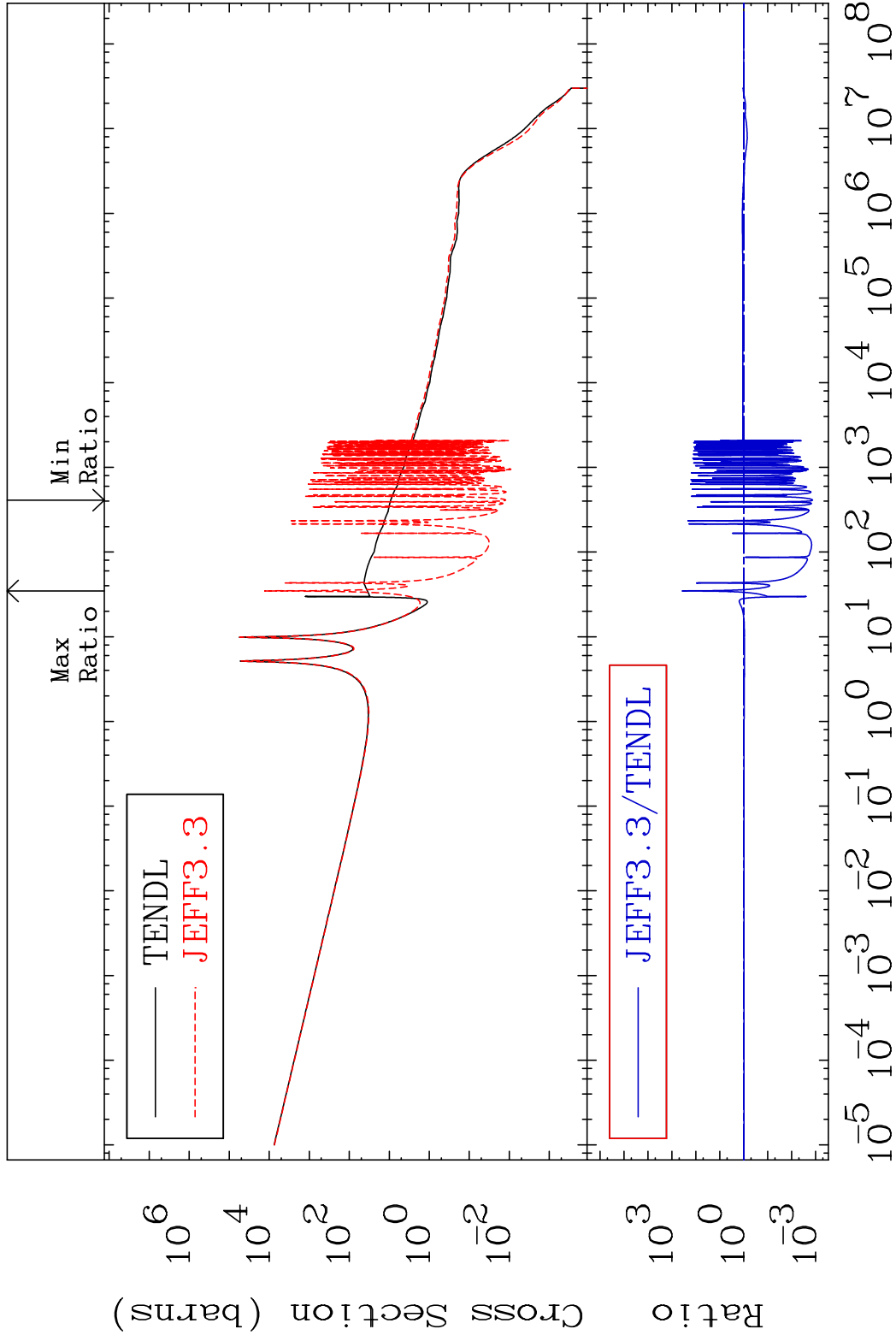


MAT 5425

(n, γ)

54-Xe-124

Cross Section -99.87 To 9999. %



50

Incident Energy (eV)

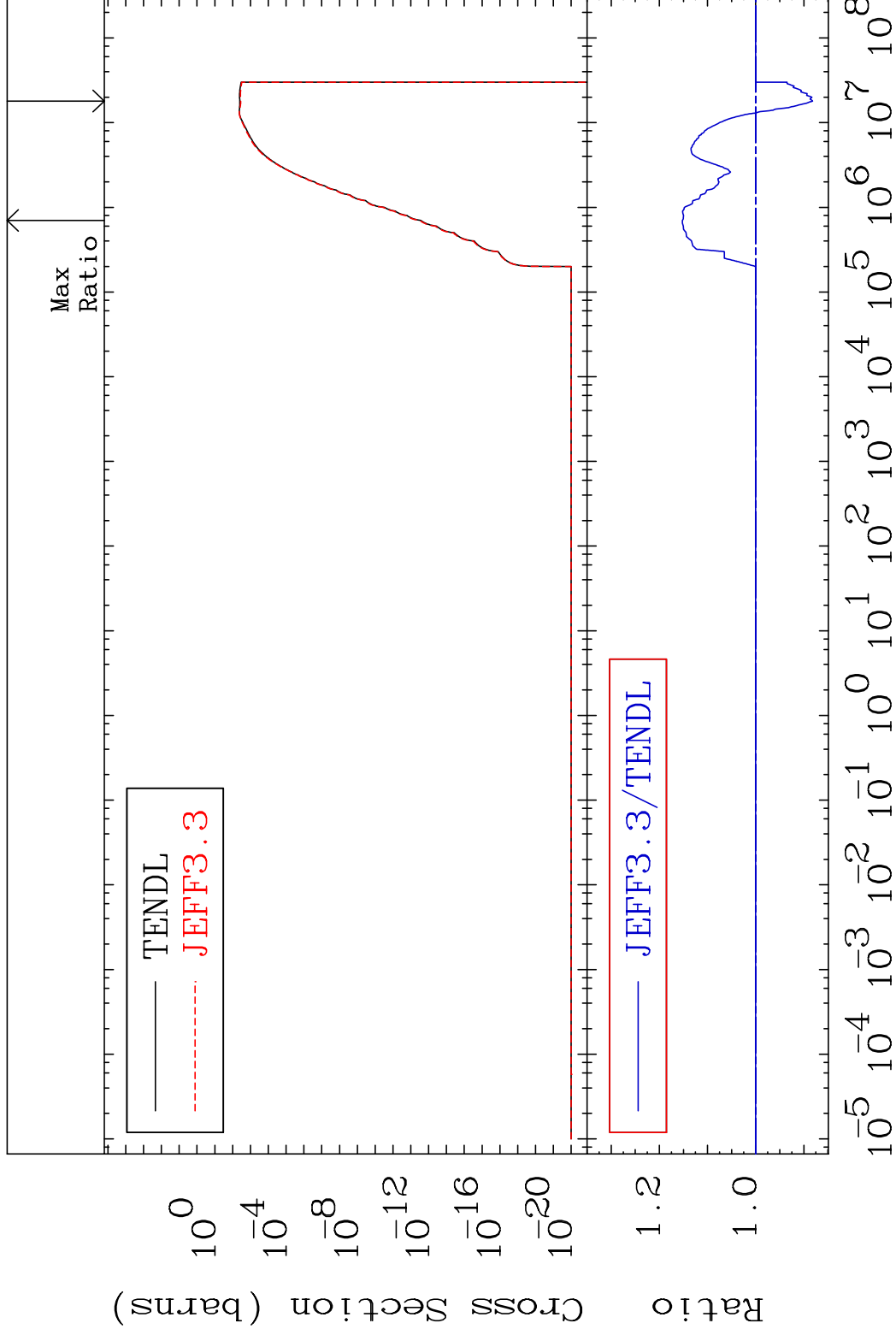
54-Xe-124

MAT 5425

(n, p)

54-Xe-124

Cross Section -11.81 To 15.22 %



51

Incident Energy (eV)

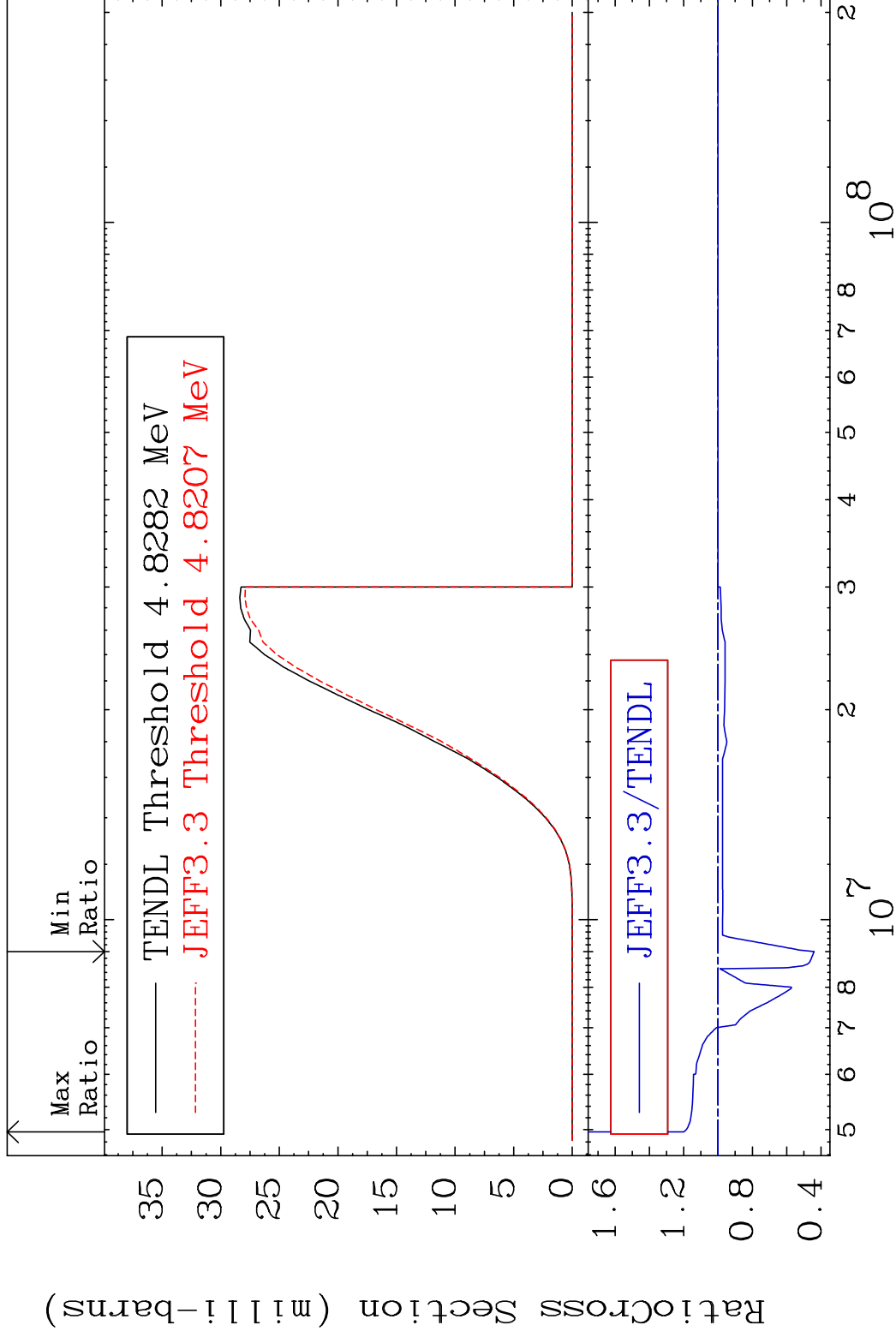
54-Xe-124

MAT 5425

(n, d)

54-Xe-124

Cross Section -56.01 To 20.06 %



52

Incident Energy (eV)

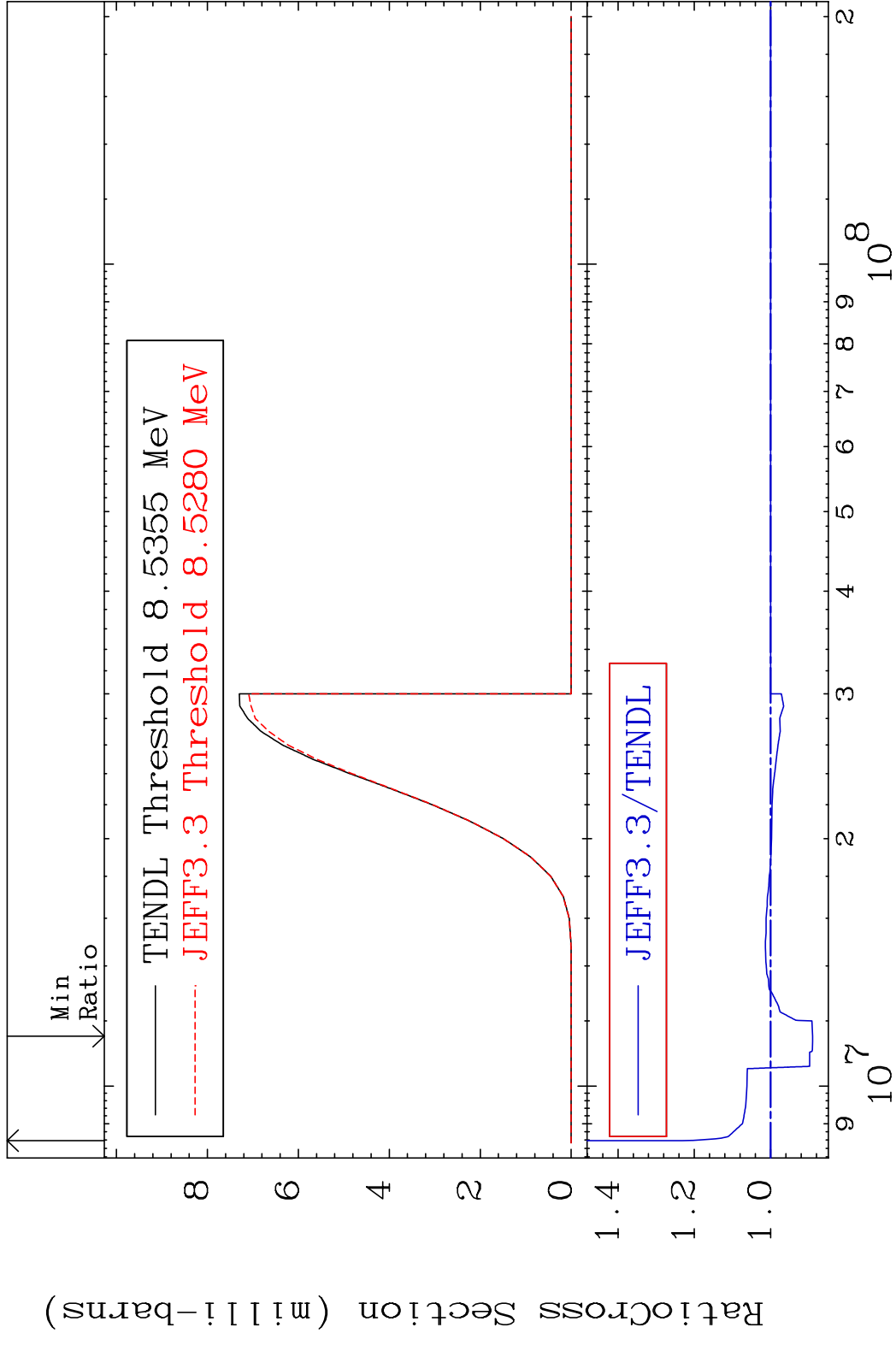
54-Xe-124

MAT 5425

(n, t)

54-Xe-124

Cross Section -10.98 To 23.13 %

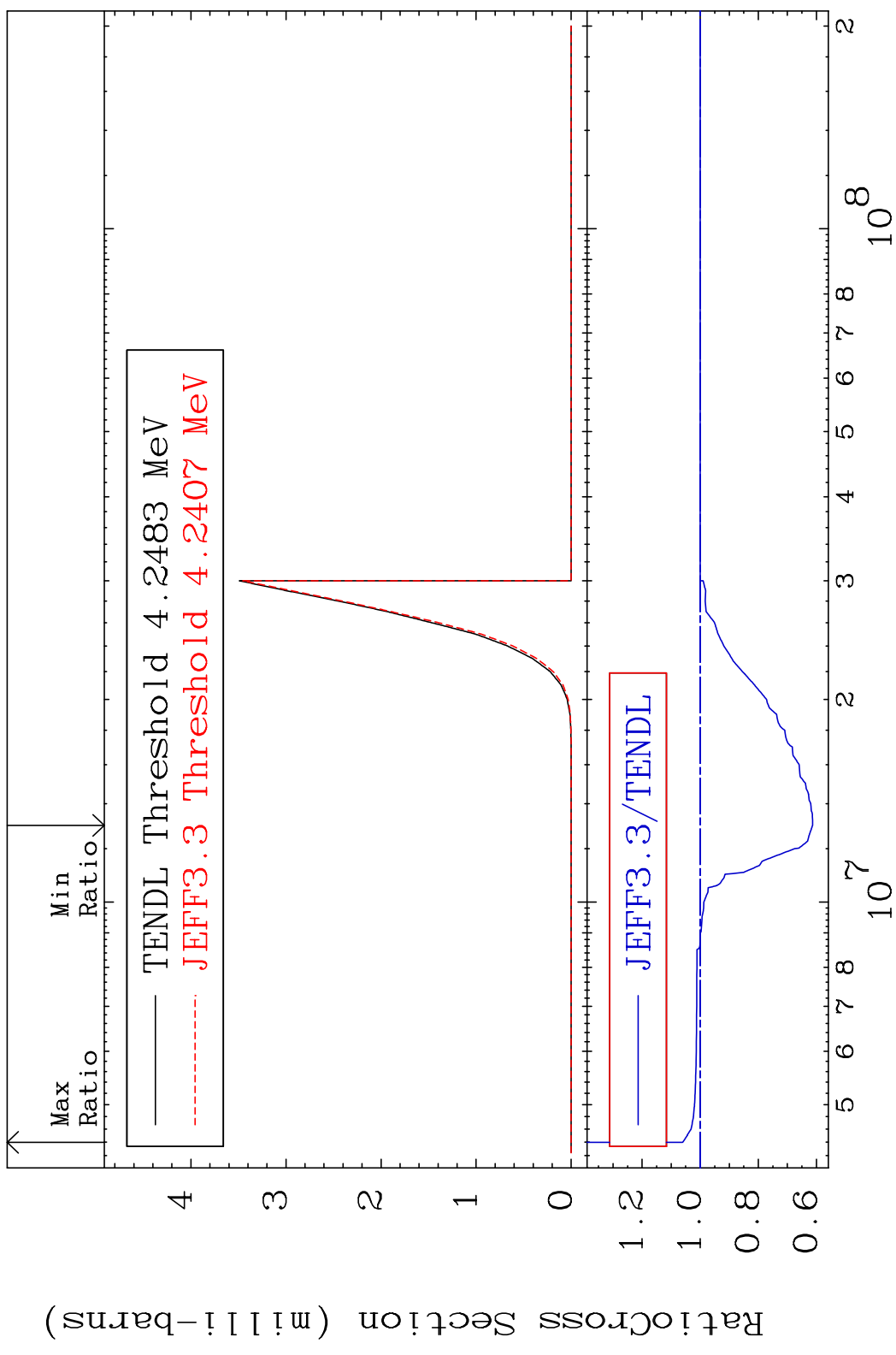


MAT 5425

(n, He-3)

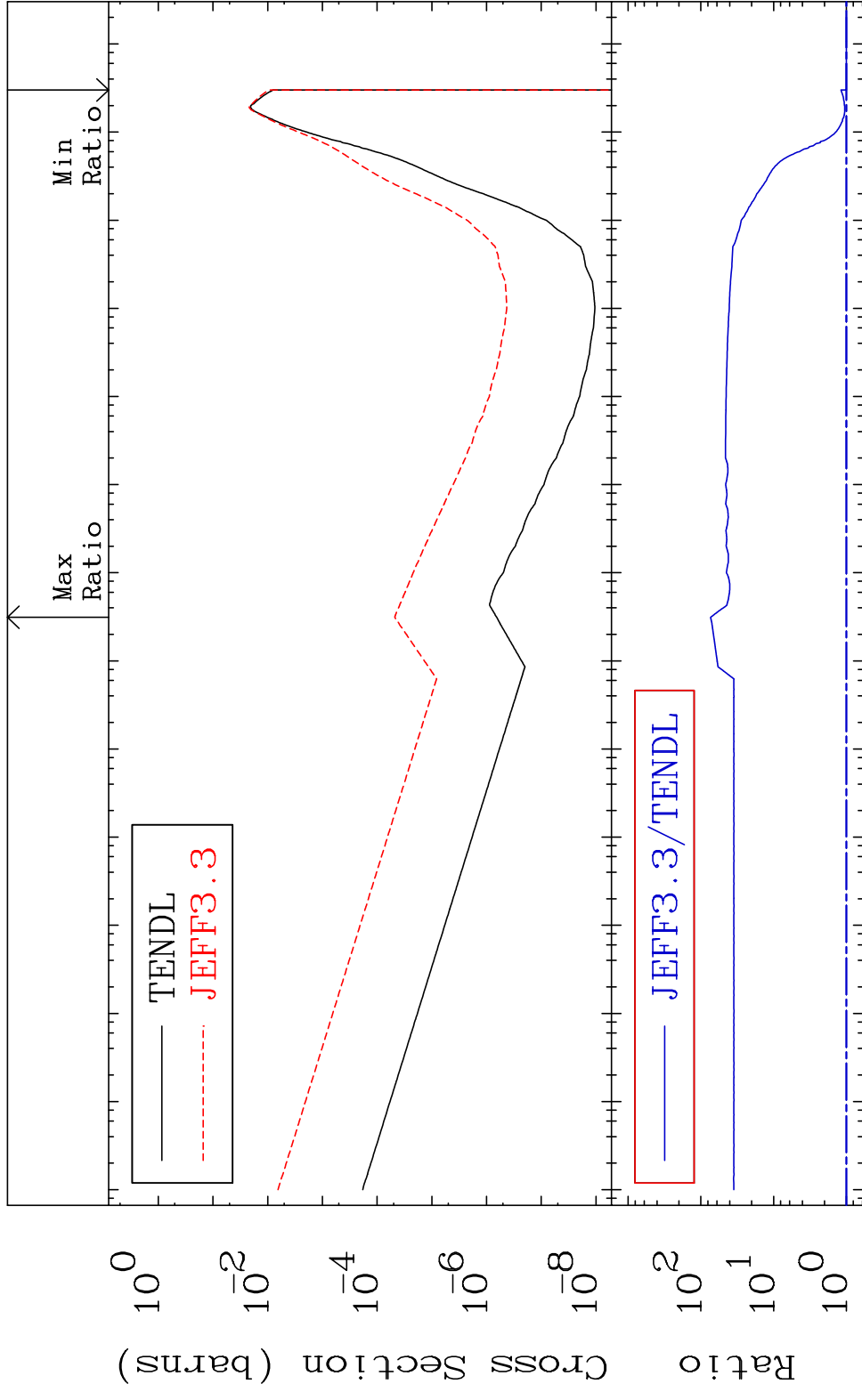
54-Xe-124

Cross Section -38.67 To 6.149 %



MAT 5425

(n, α)
Cross Section 0.000 To 7214. %
54-Xe-124

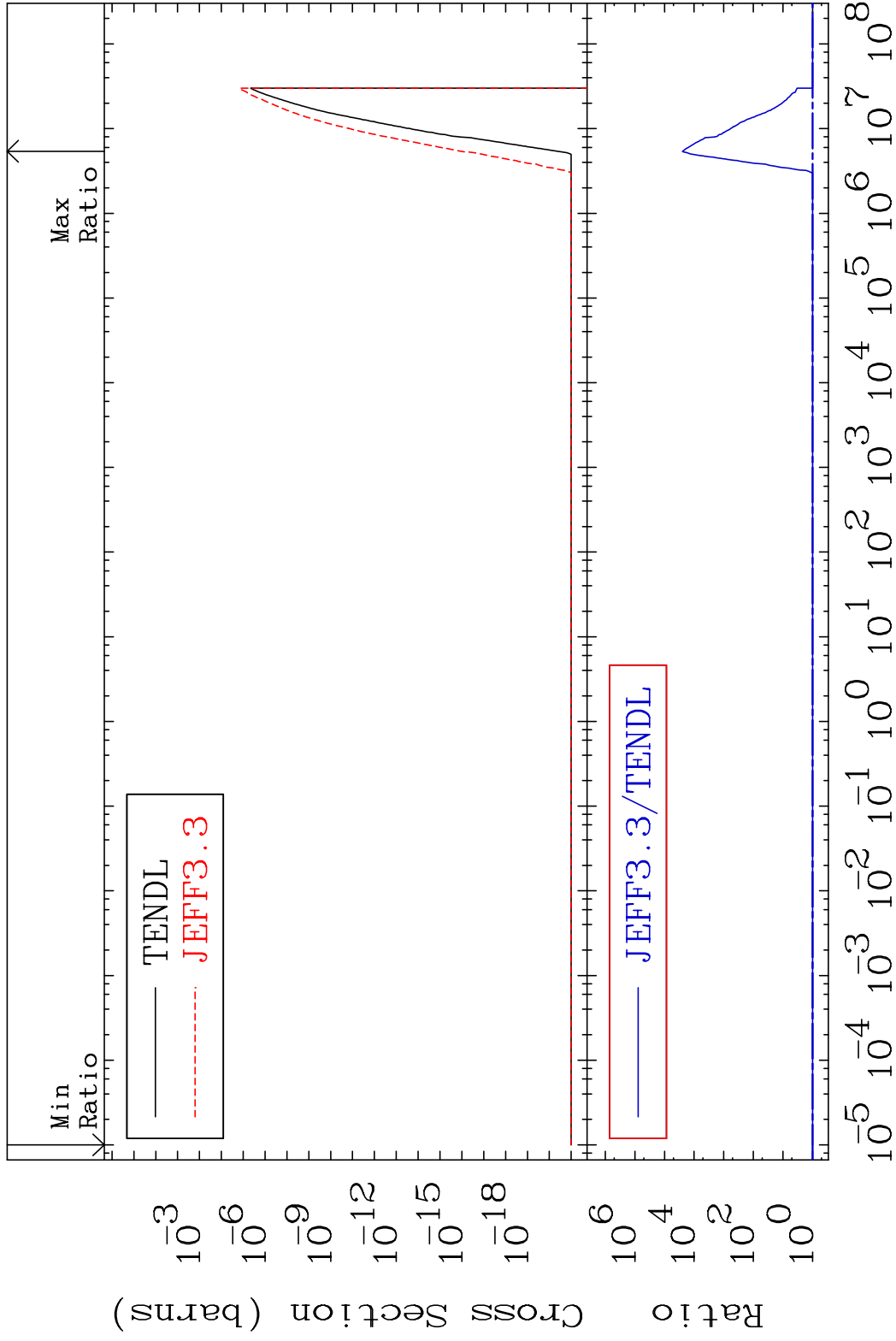


MAT 5425

(n,2α)

54-Xe-124

Cross Section 0.000 To 9999. %

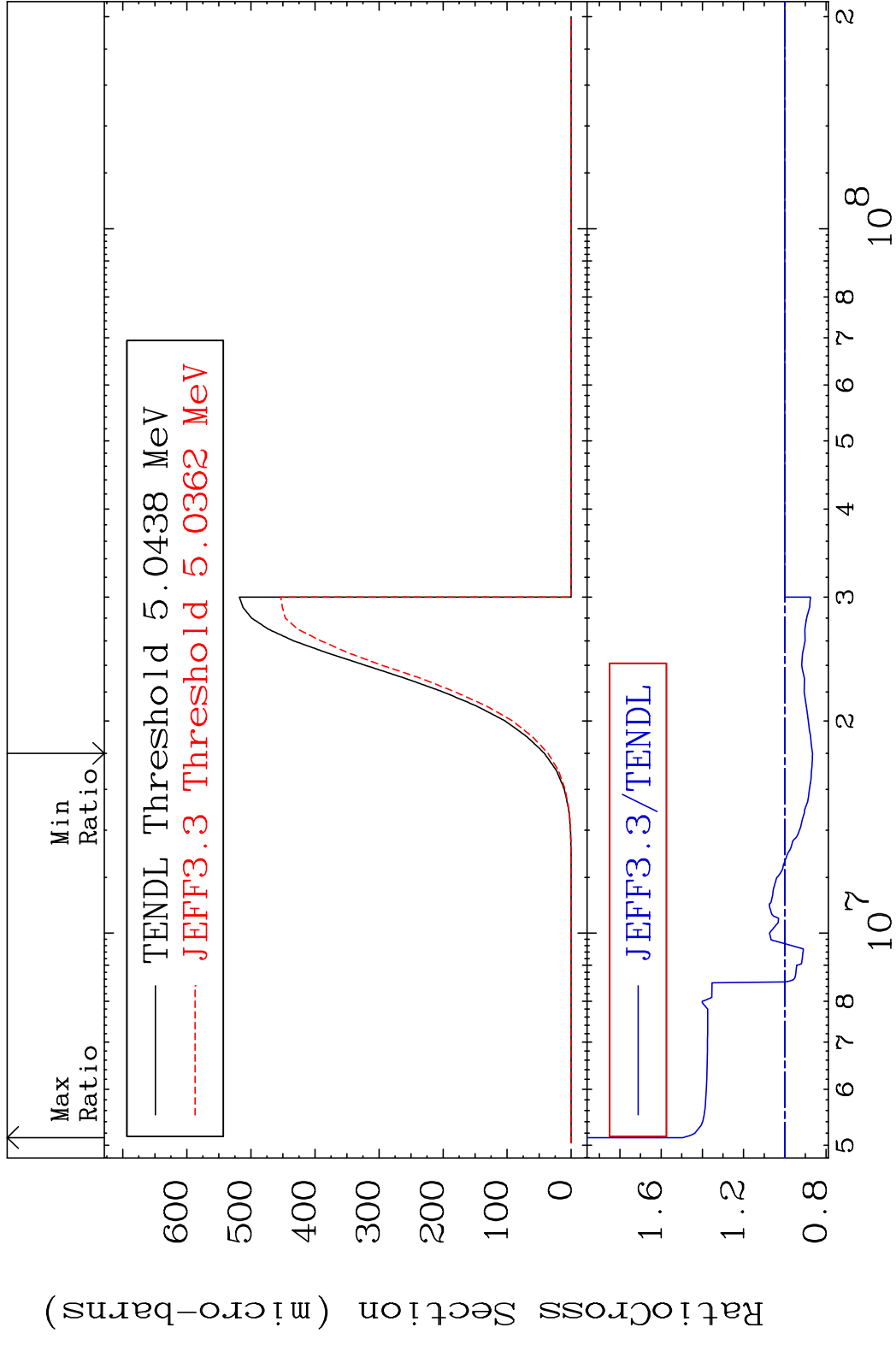


MAT 5425

(n,2p)

54-Xe-124

Cross Section -13.47 To 49.70 %

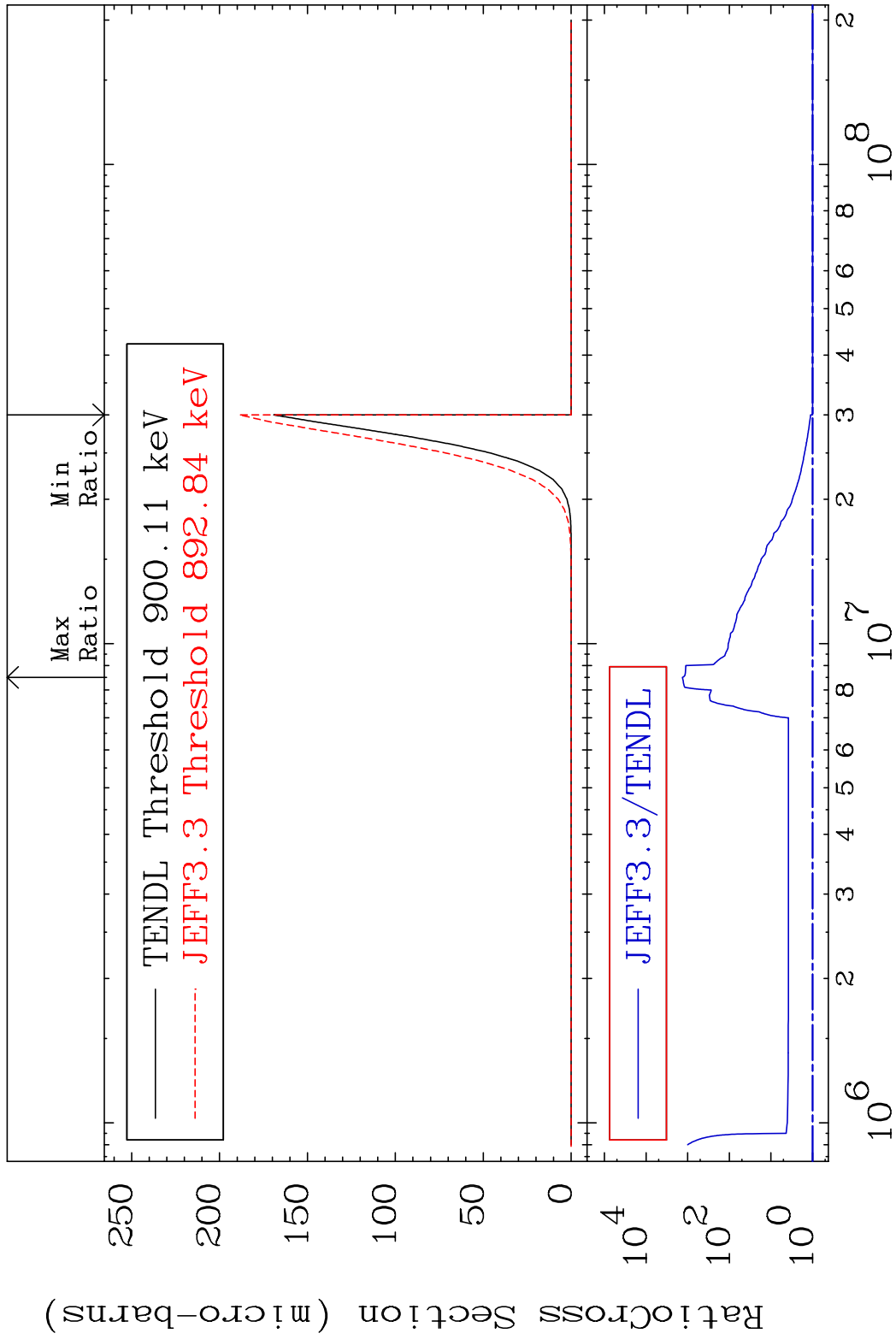


MAT 5425

(n,p) α

54-Xe-124

Cross Section 0.000 To 9999. %



Ratio Cross Section (micro-barns)

— TENDL Threshold 900.11 keV
- - - JEFF3.3 Threshold 892.84 keV

— JEFF3.3/TENDL

58

Incident Energy (eV)

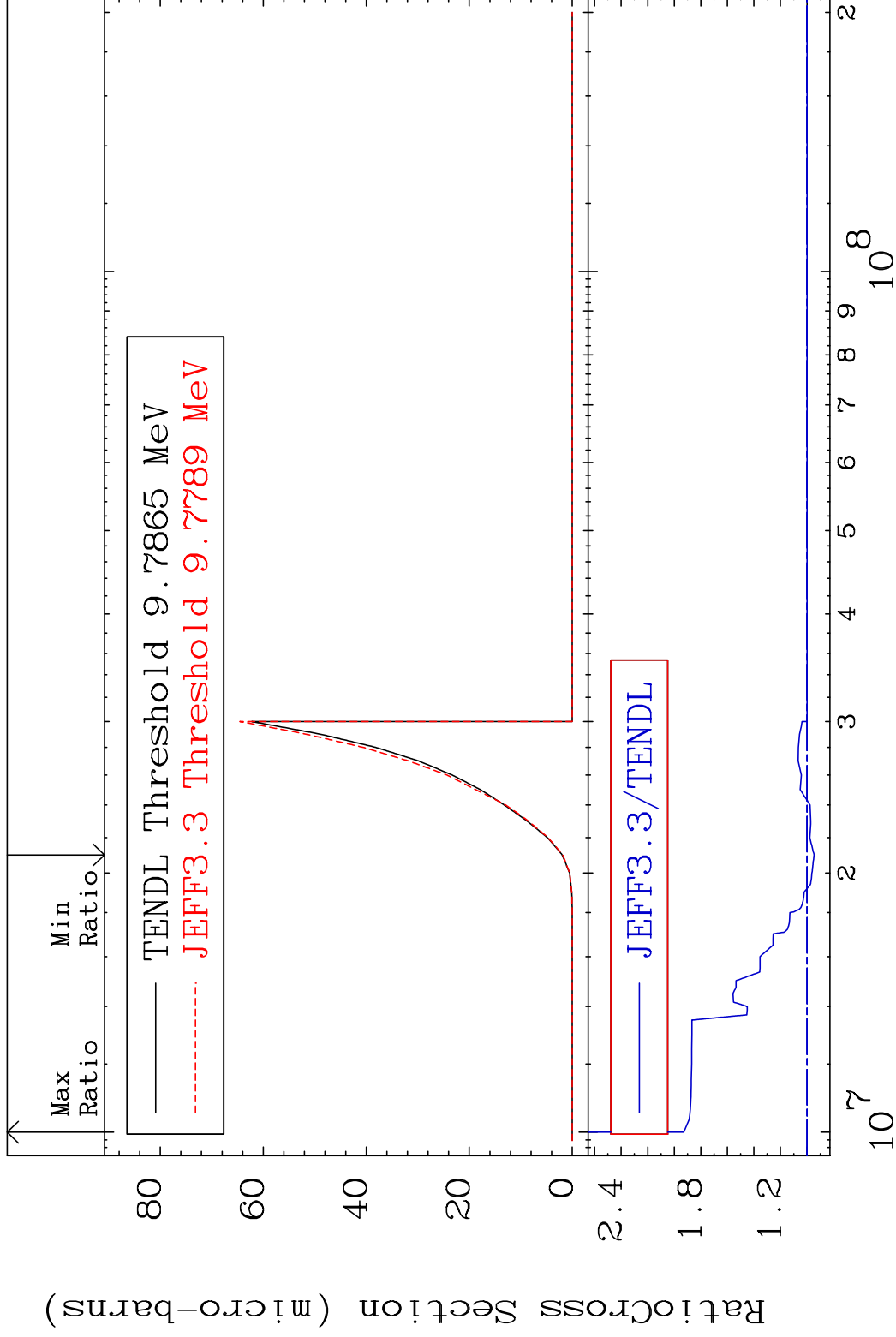
54-Xe-124

MAT 5425

(n,p) d

54-Xe-124

Cross Section -5.357 To 92.92 %



59

Incident Energy (eV)

54-Xe-124

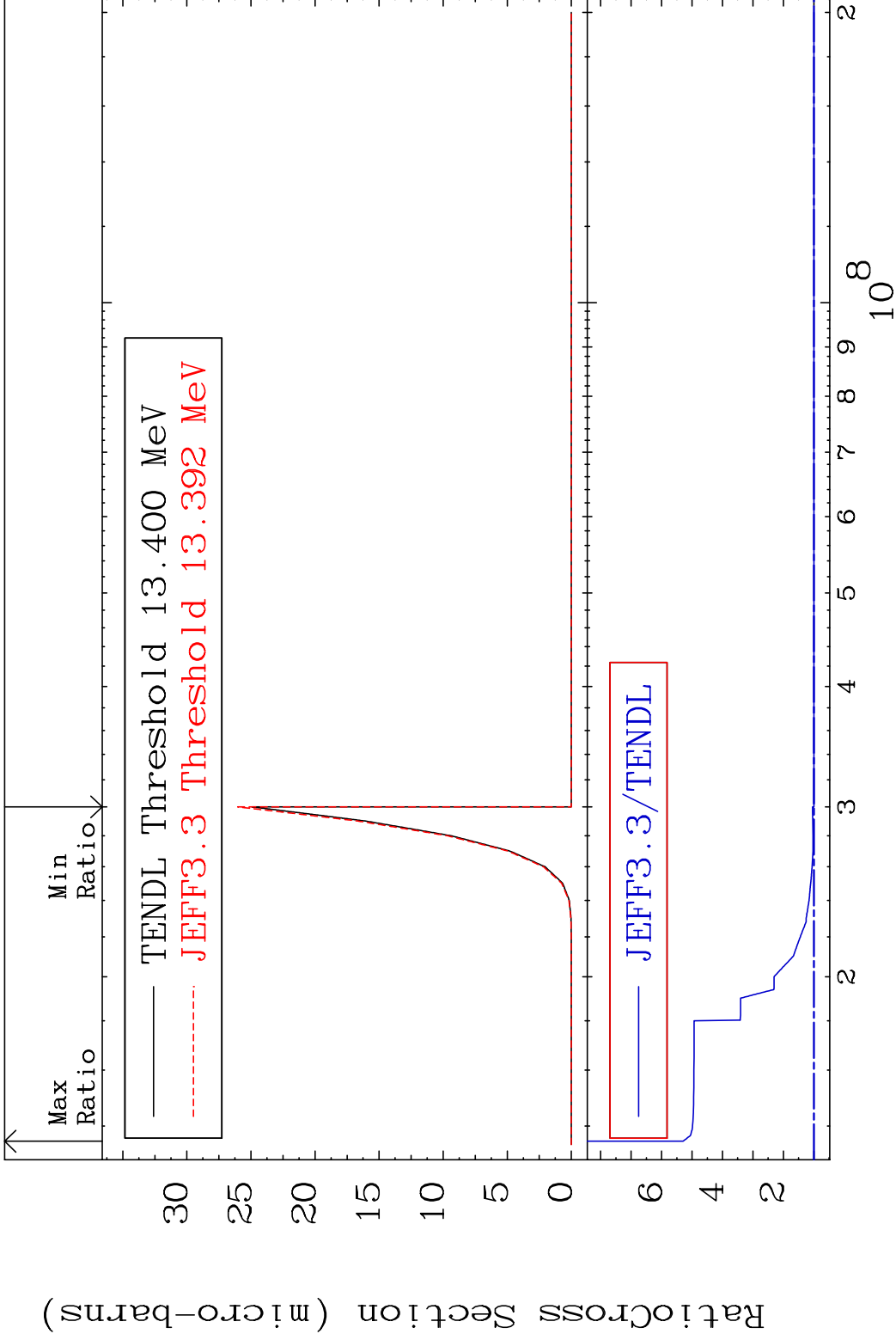
MAT 5425

(n,p) t

54-Xe-124

Cross Section 0.000

To 429.5 %



60

Incident Energy (eV)

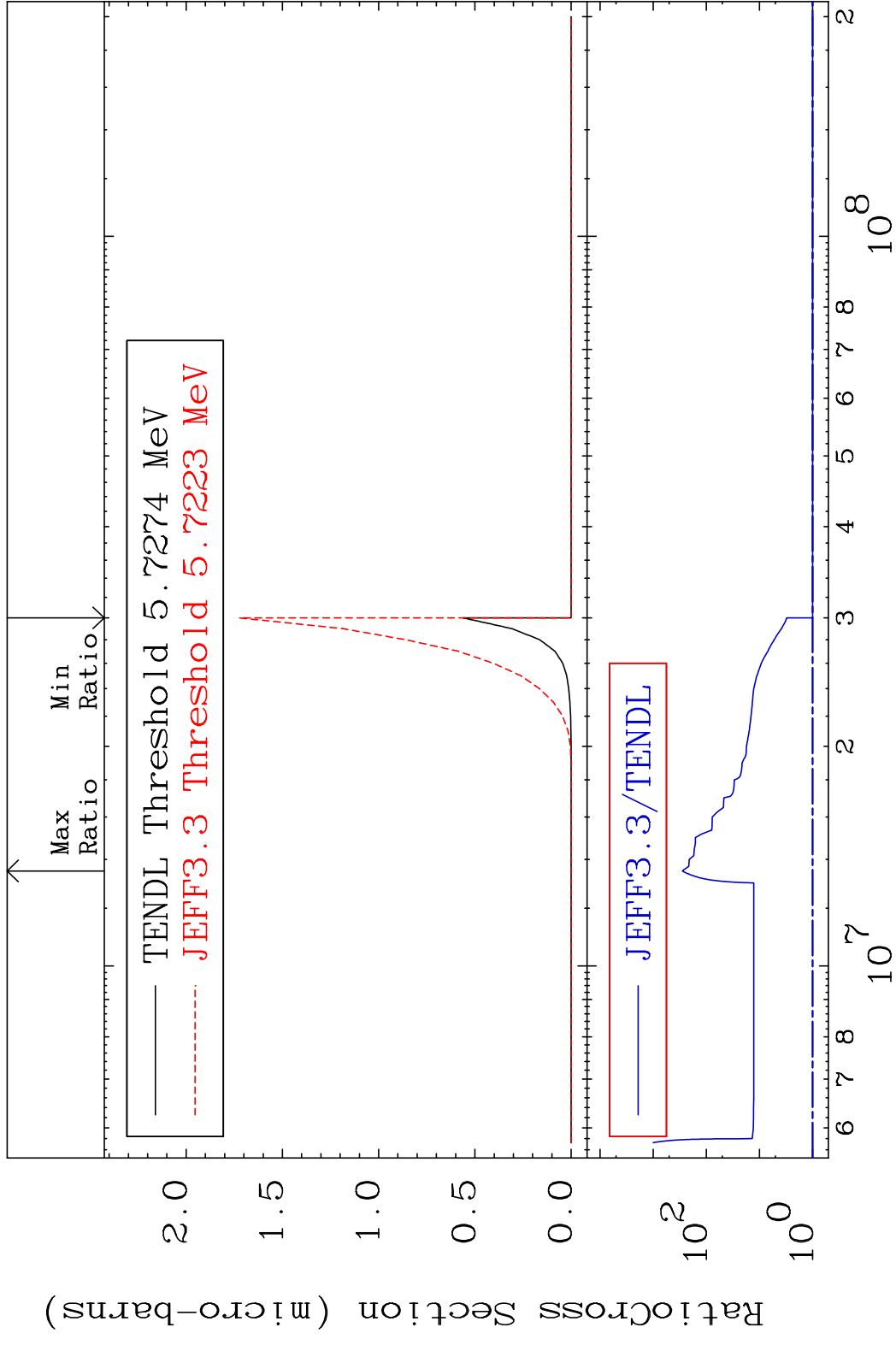
54-Xe-124

MAT 5425

(n,d) α

54-Xe-124

Cross Section 0.000 To 9999. %

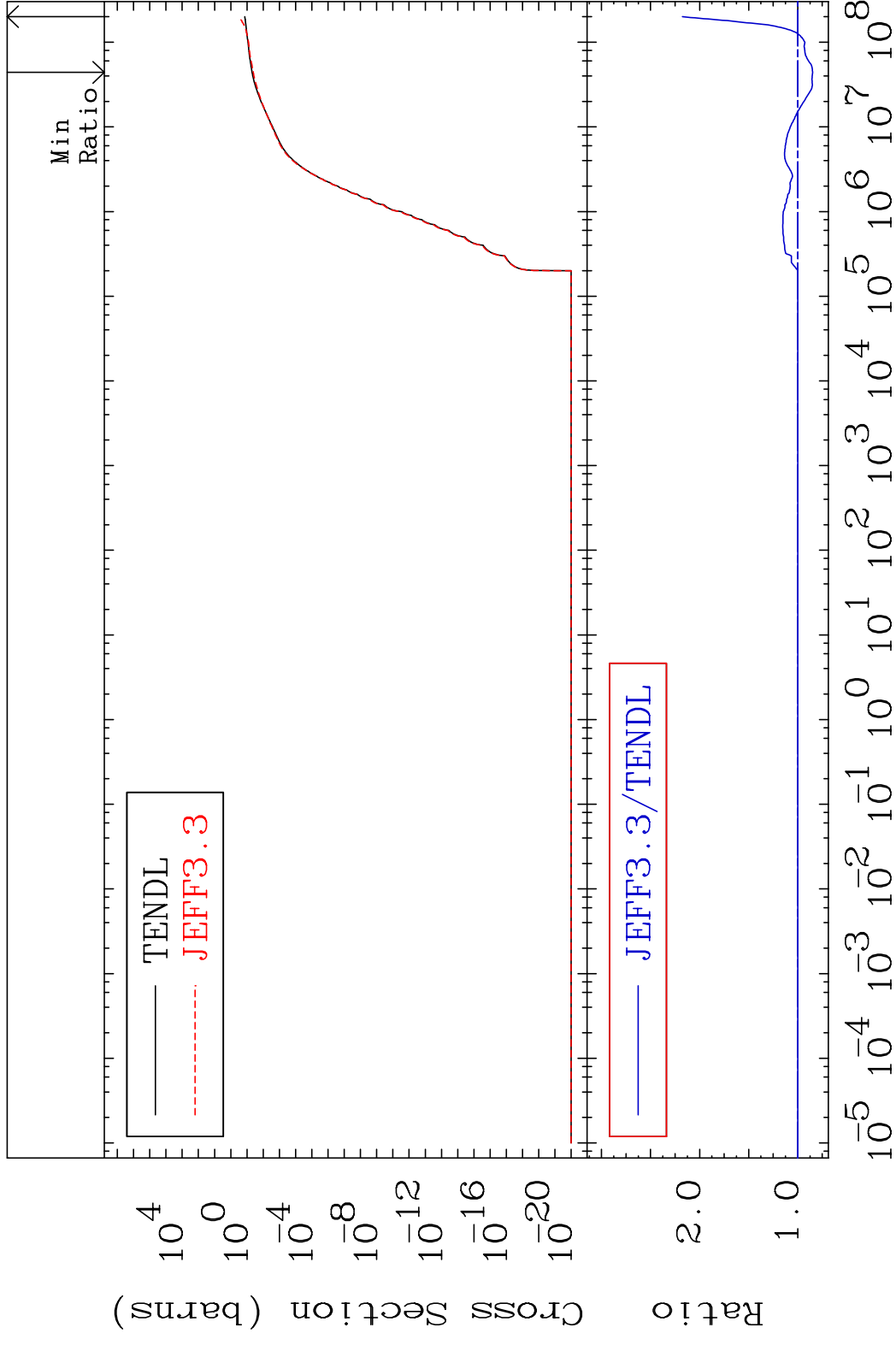


MAT 5425

Hydrogen Production

54-Xe-124

Cross Section -15.10 To 117.6 %

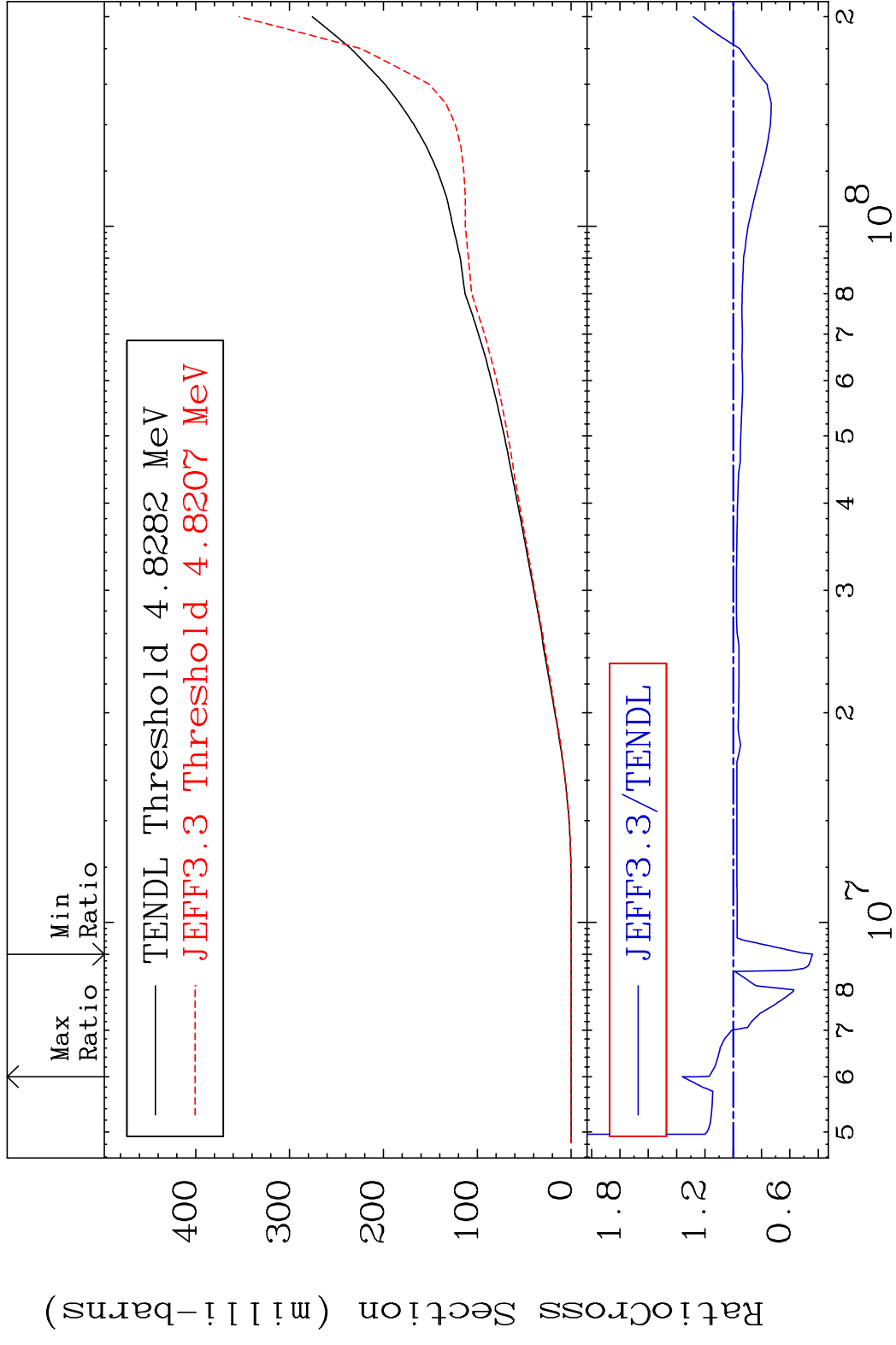


MAT 5425

Deuterium Production

54-Xe-124

Cross Section -56.01 To 35.93 %



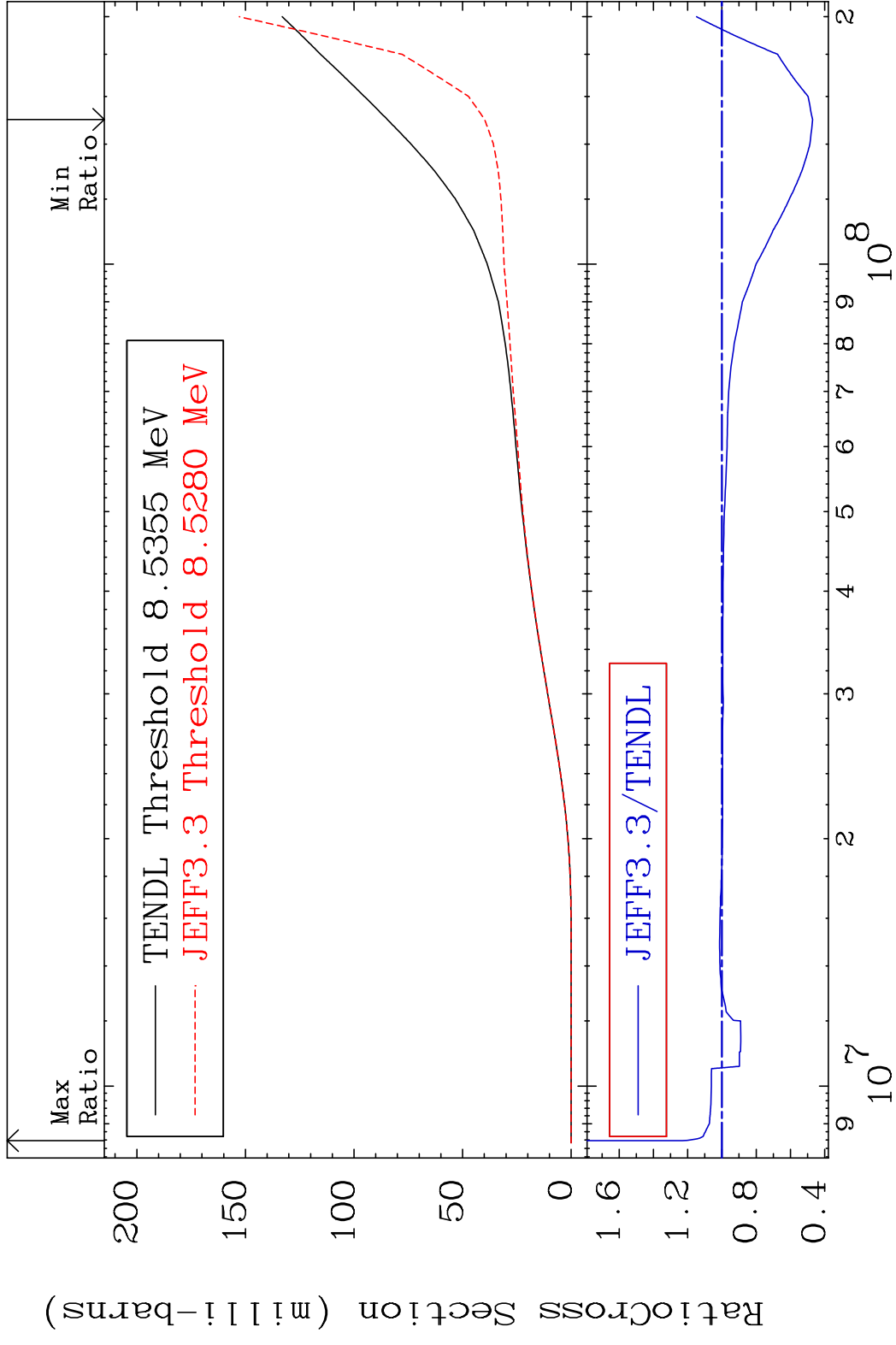
MAT 5425

Tritium Production

54-Xe-124

Cross Section

-52.95 To 23.13 %

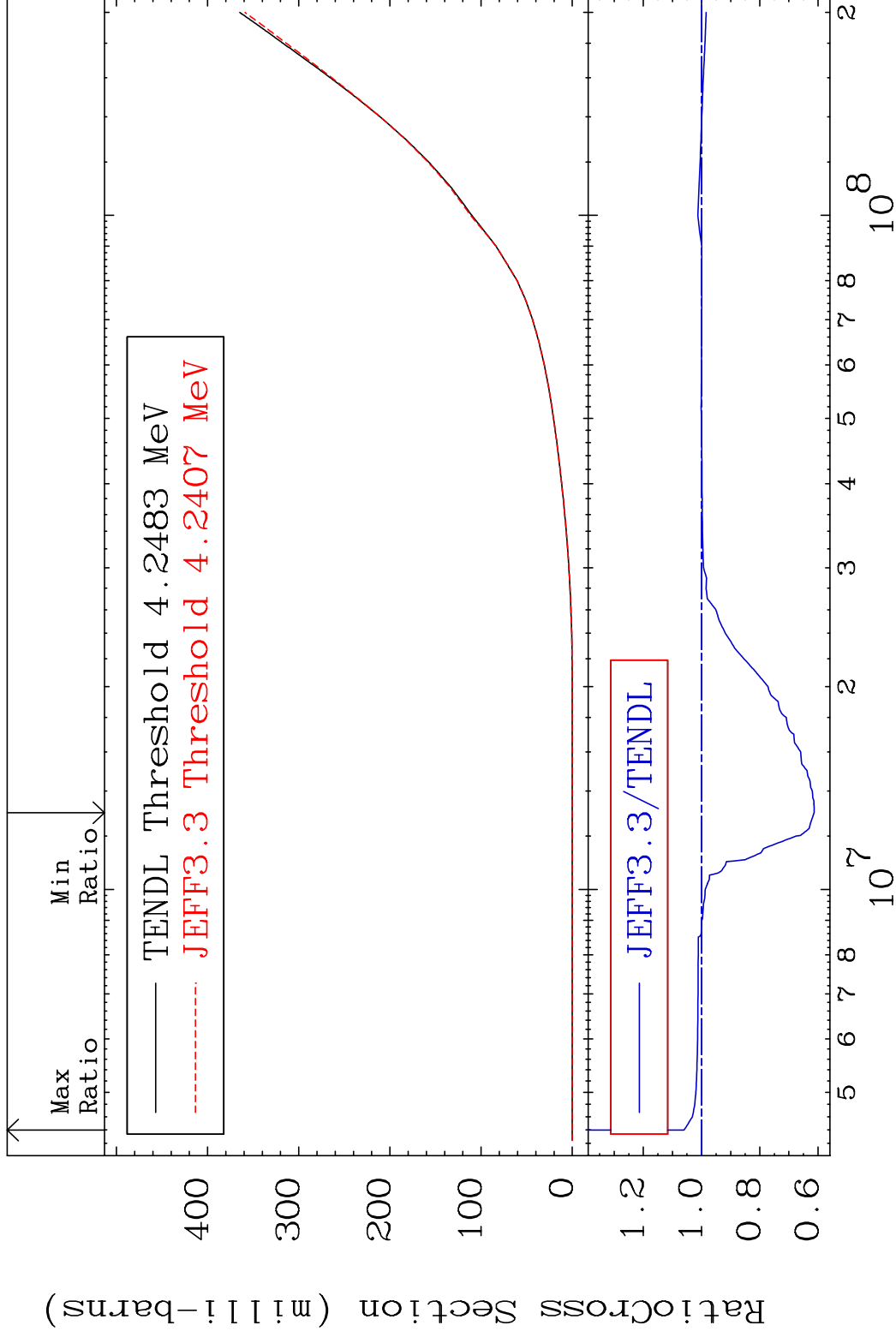


MAT 5425

He-3 Production

54-Xe-124

Cross Section -38.67 To 6.149 %



65

Incident Energy (eV)

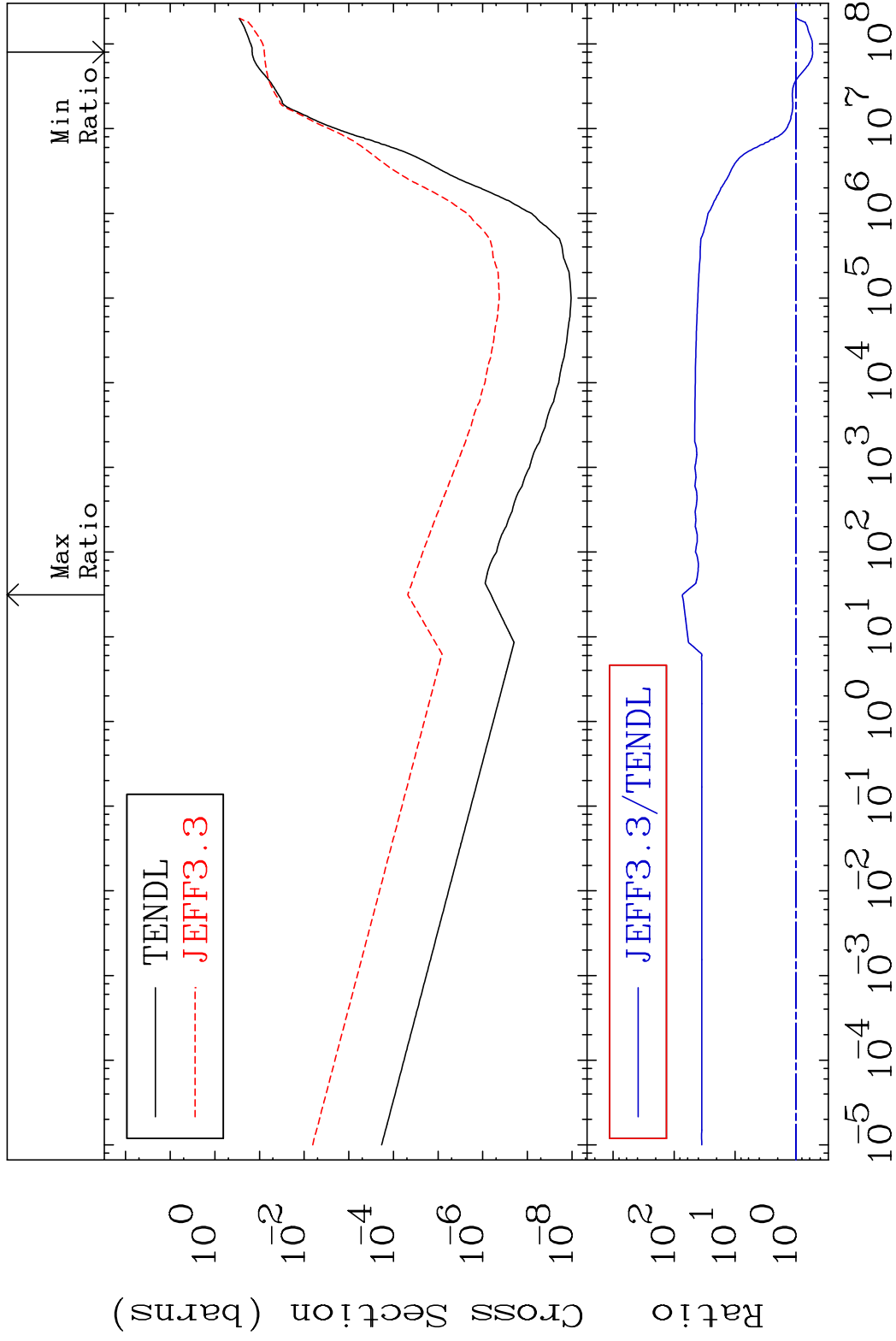
54-Xe-124

MAT 5425

He-4 Production

54-Xe-124

Cross Section -46.48 To 7214. %



66

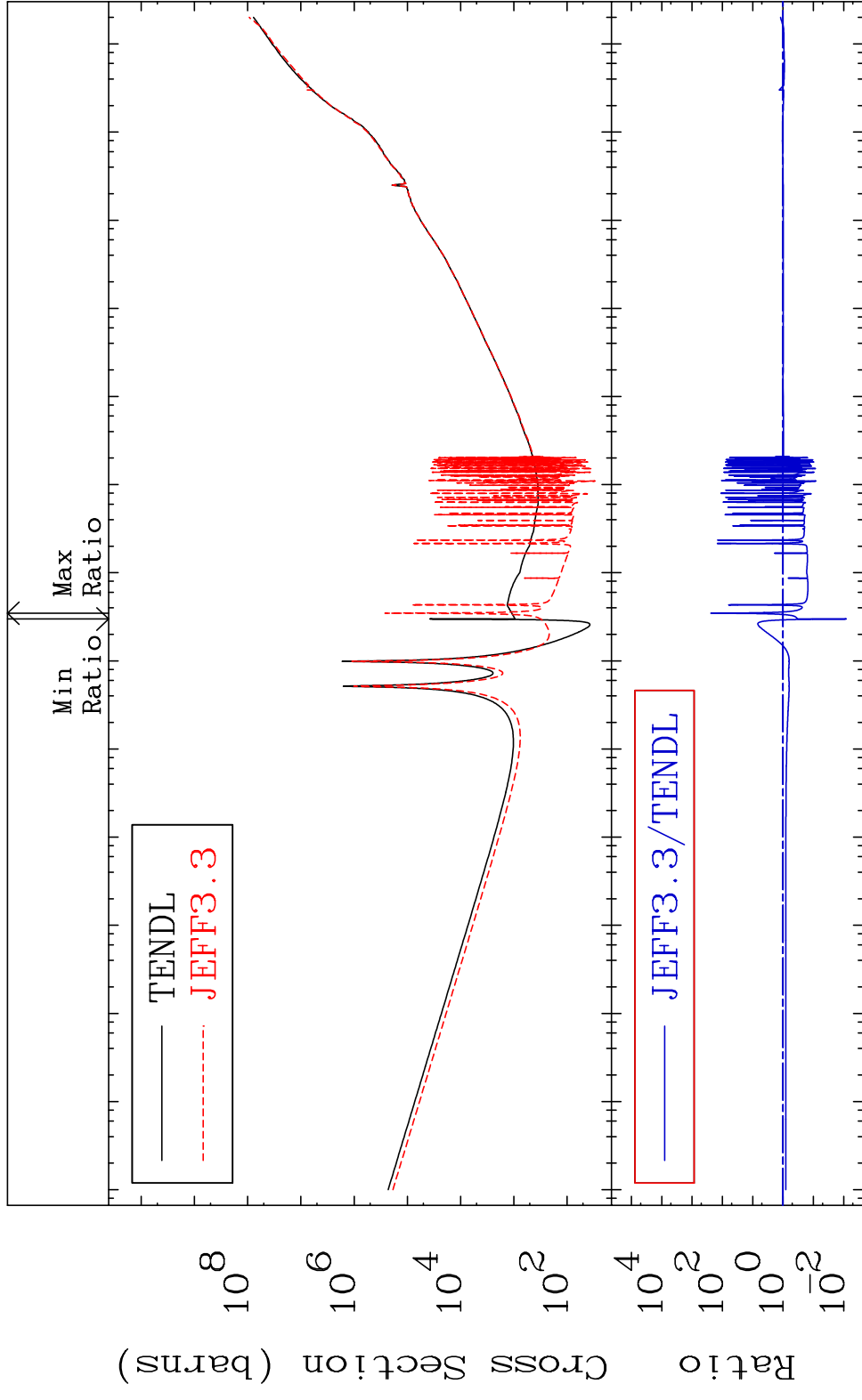
Incident Energy (eV)

54-Xe-124

MAT 5425

Kerma total (eV-barns) 54-Xe-124

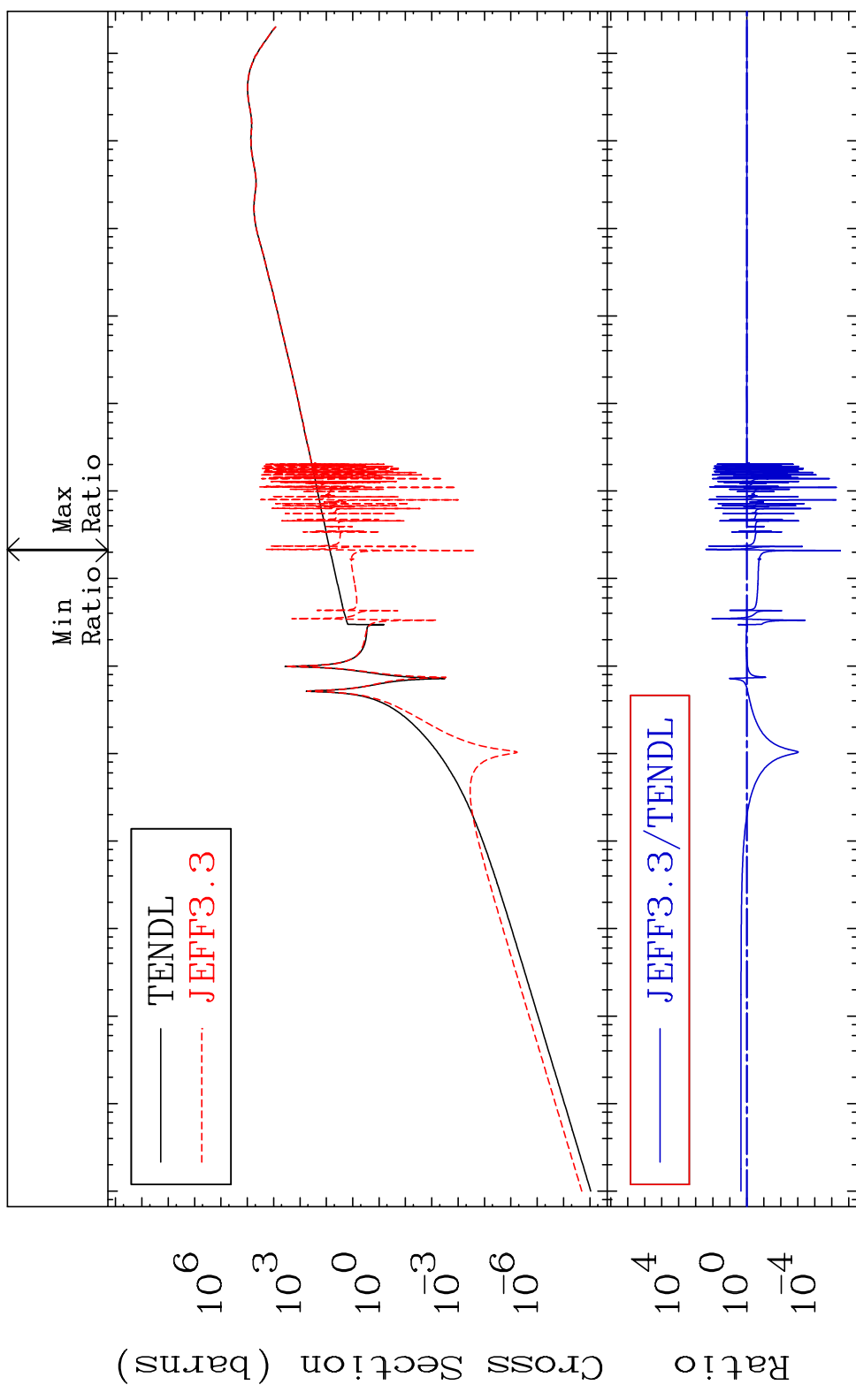
Cross Section -99.18 To 9999. %



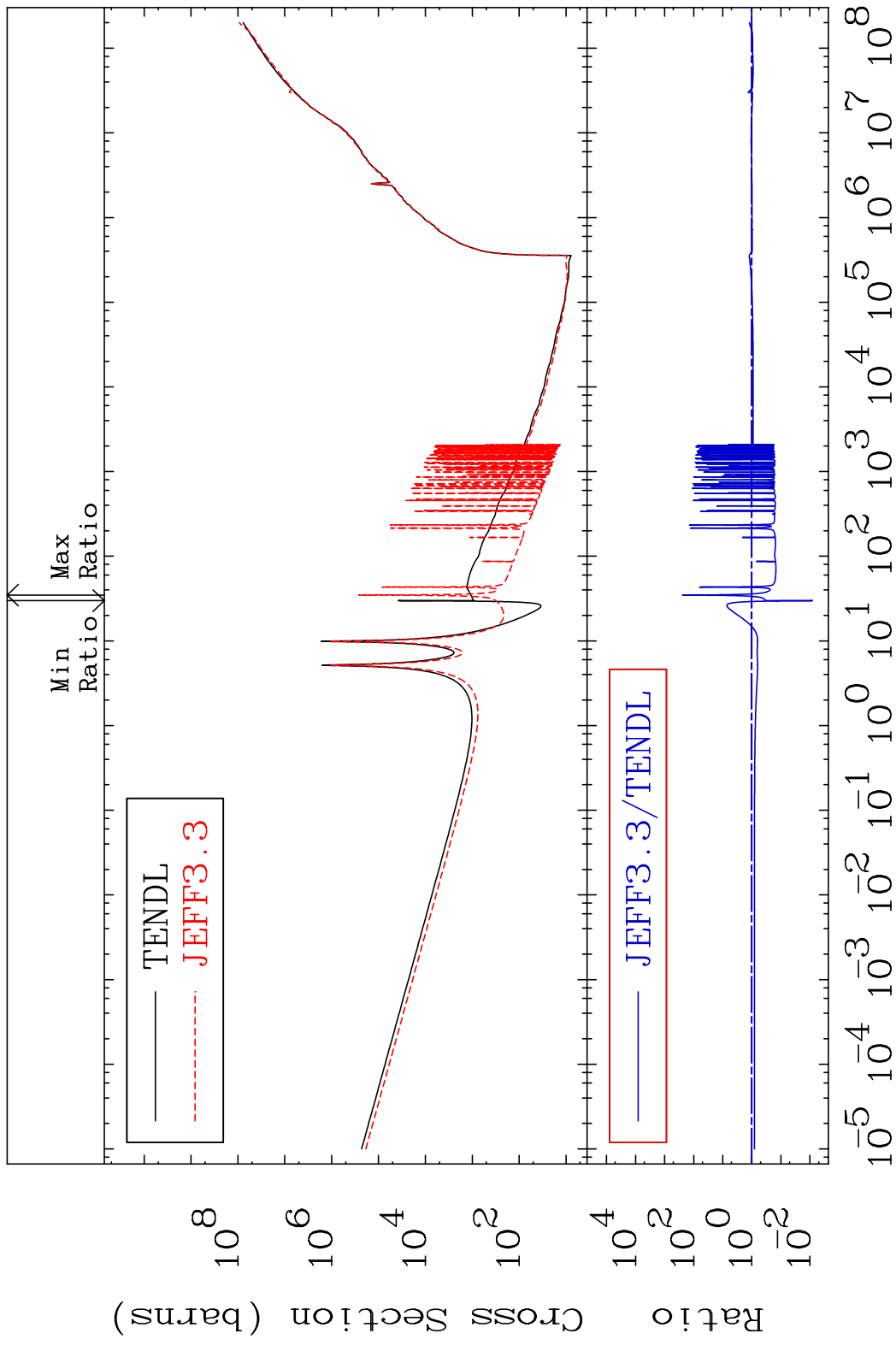
MAT 5425

Kerma elastic
Cross Section -100.0 To 9999. %

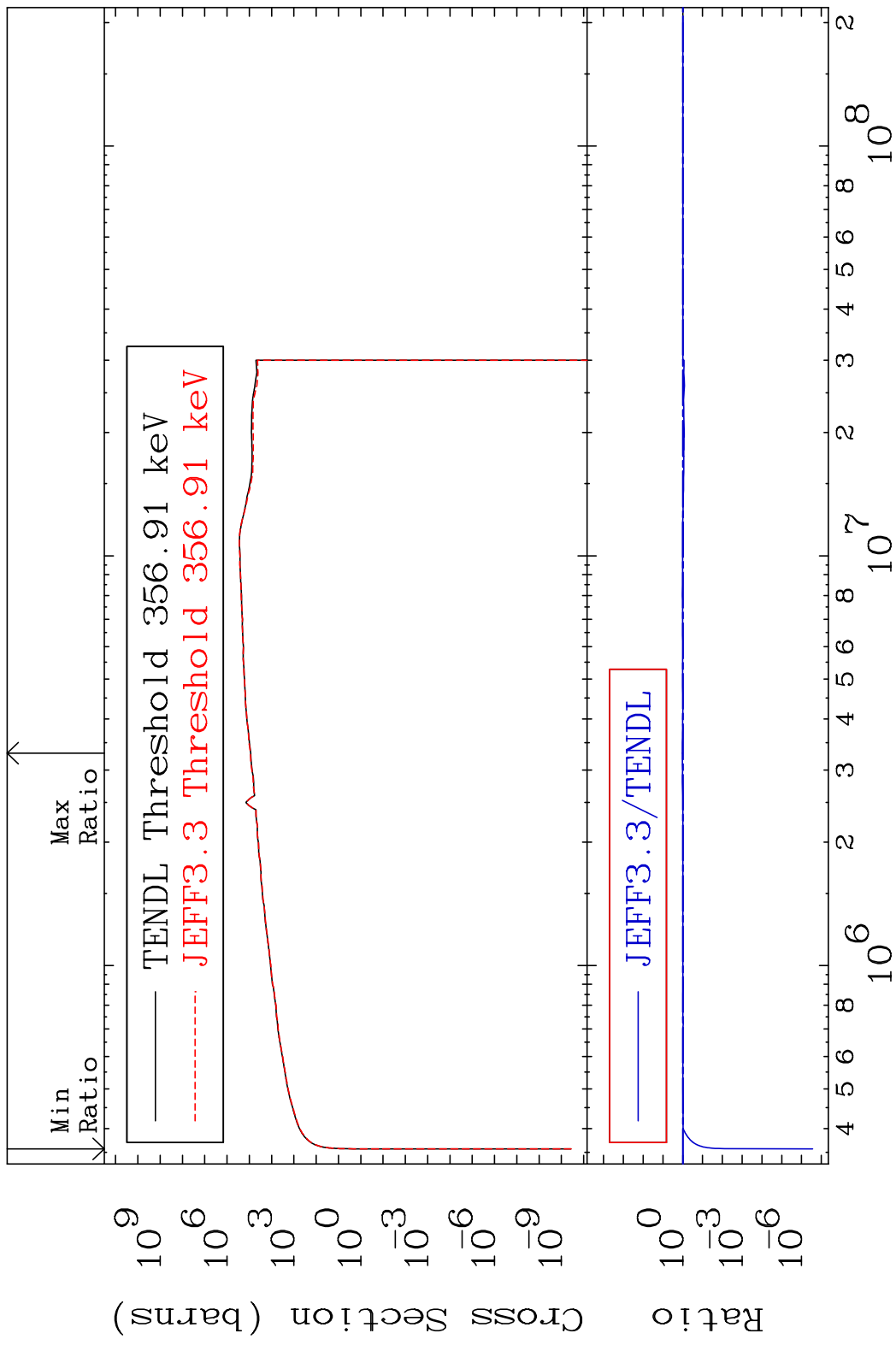
54-Xe-124



MAT 5425 Kerma non-elastic (all but mt2) 54-Xe-124
 Cross Section -99.19 To 9999. %

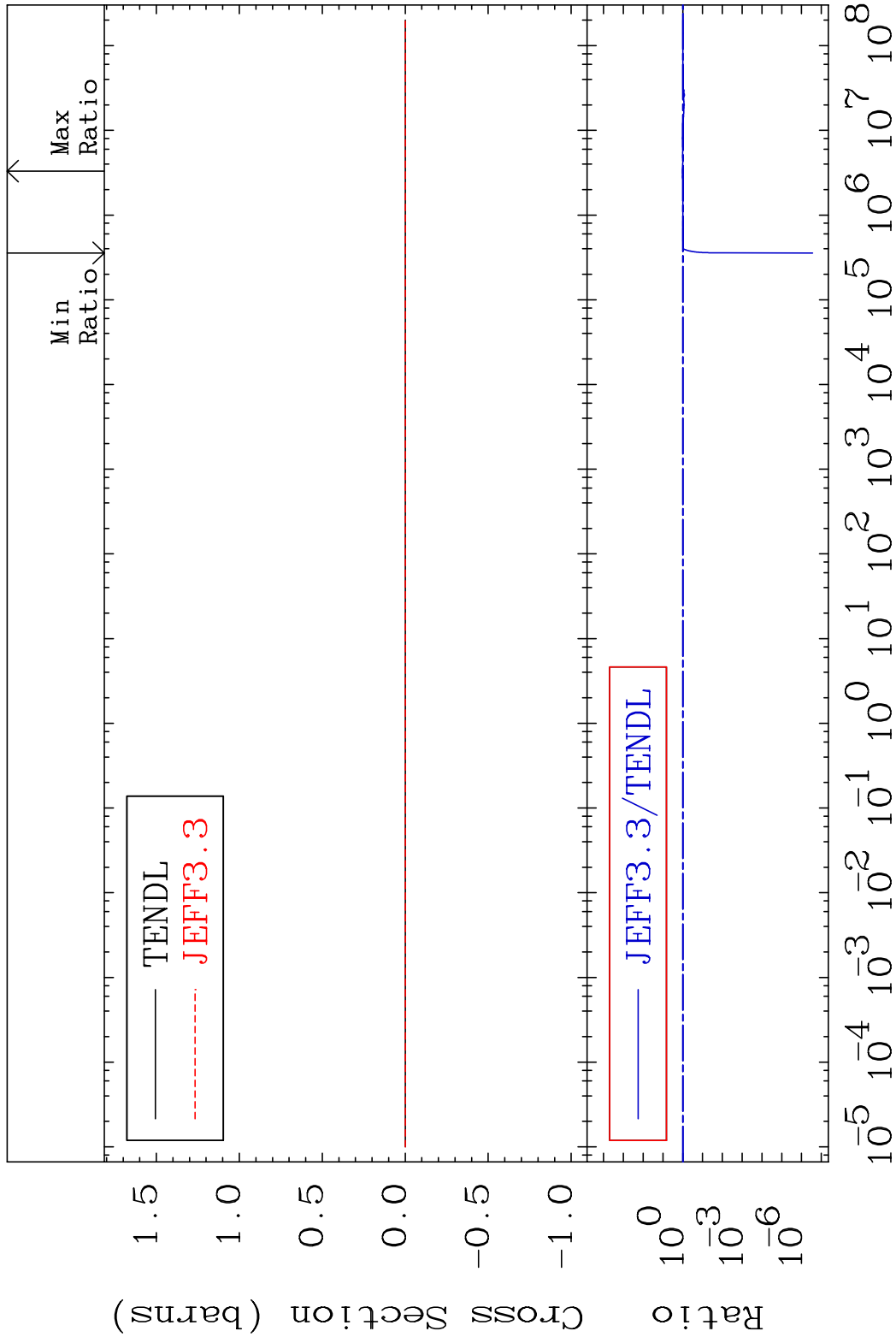


MAT 5425 Kerma inelastic (mt51-91) 54-Xe-124
 Cross Section -100.0 To 4.541 %



70 Incident Energy (eV) 54-Xe-124

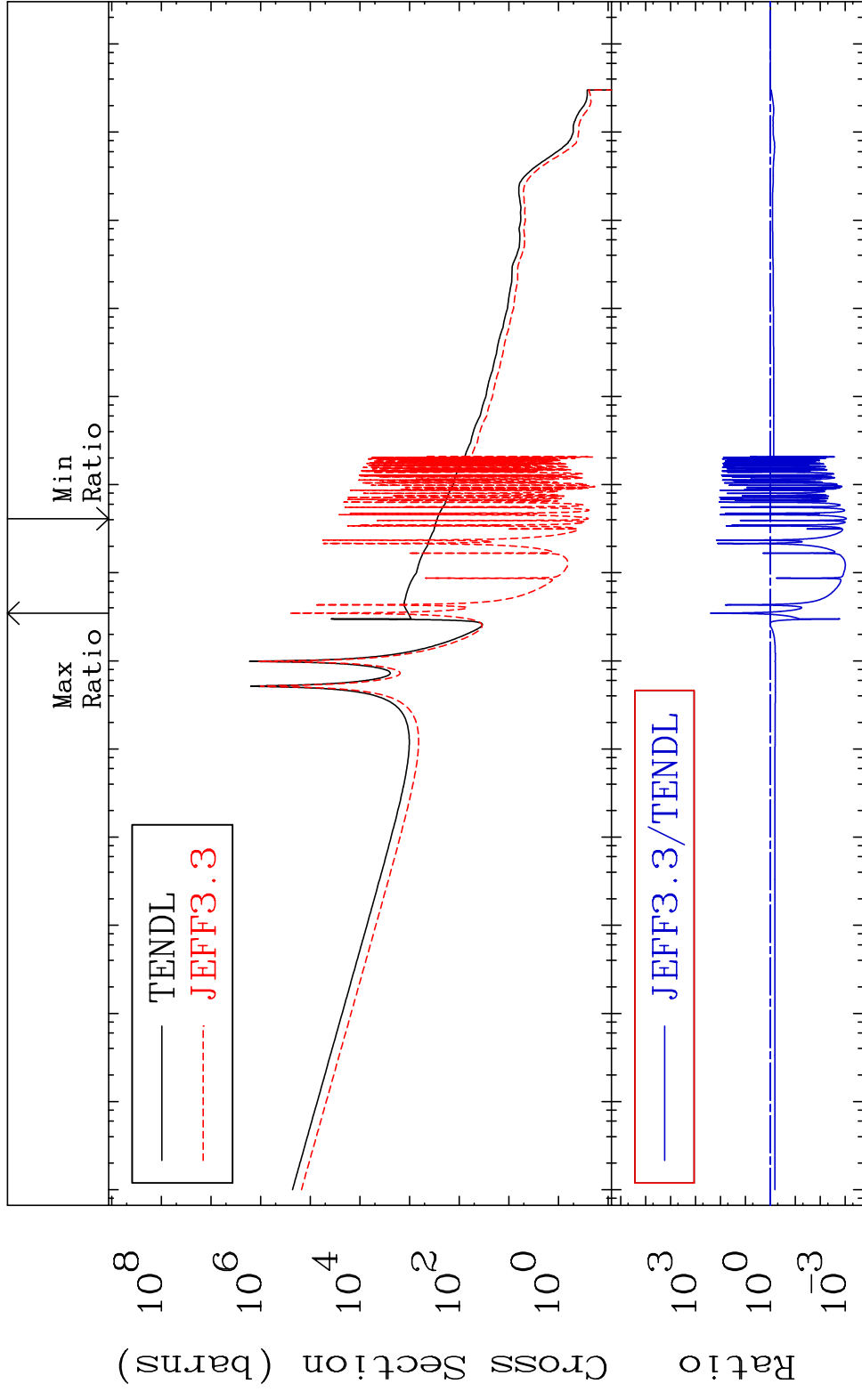
MAT 5425 Kerma fission (mt18 or mt19-20-21-38) 54-Xe-124
 Cross Section -100.0 To 4.541 %



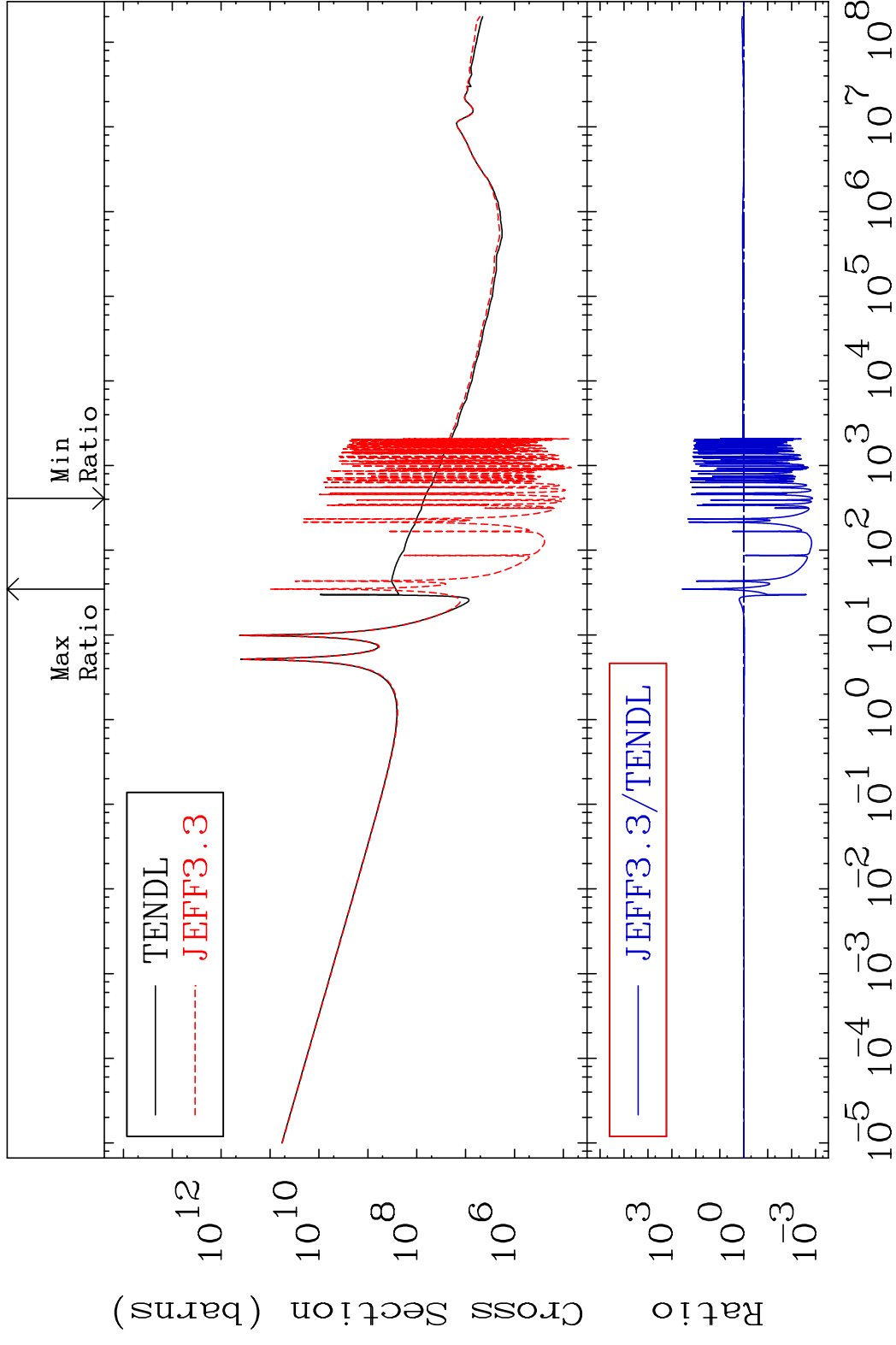
MAT 5425

Kerma capture (mt102) 54-Xe-124

Cross Section -99.91 To 9999. %

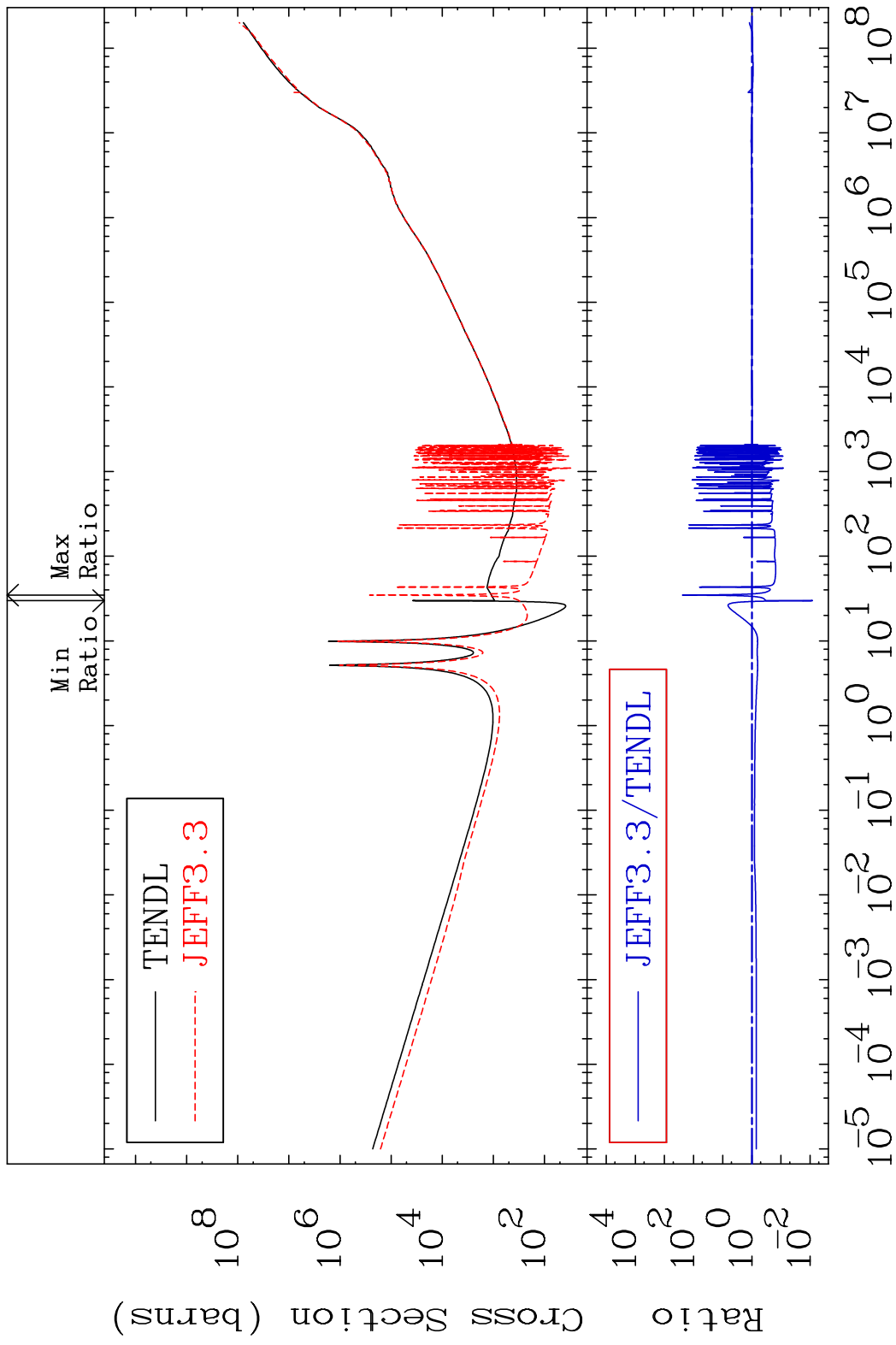


MAT 5425 Total photon (eV-barns) 54-Xe-124
 Cross Section -99.87 To 9999. %



73 Incident Energy (eV) 54-Xe-124

MAT 5425 Total kinematic kerma (high limit) 54-Xe-124
 Cross Section -99.18 To 9999. %

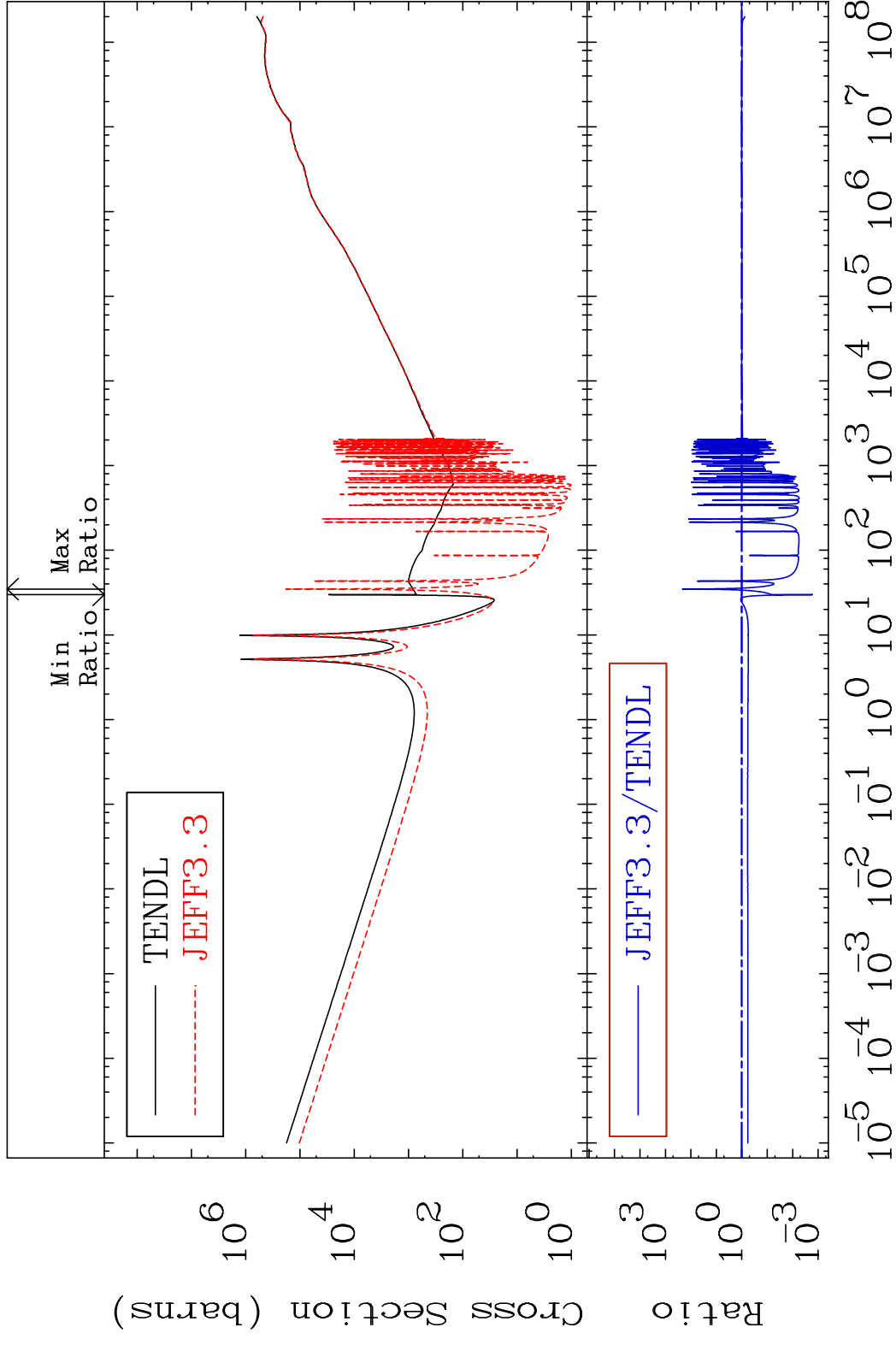


MAT 5425

Dpa total (eV-barns)

54-Xe-124

Cross Section -99.83 To 9999. %



75

Incident Energy (eV)

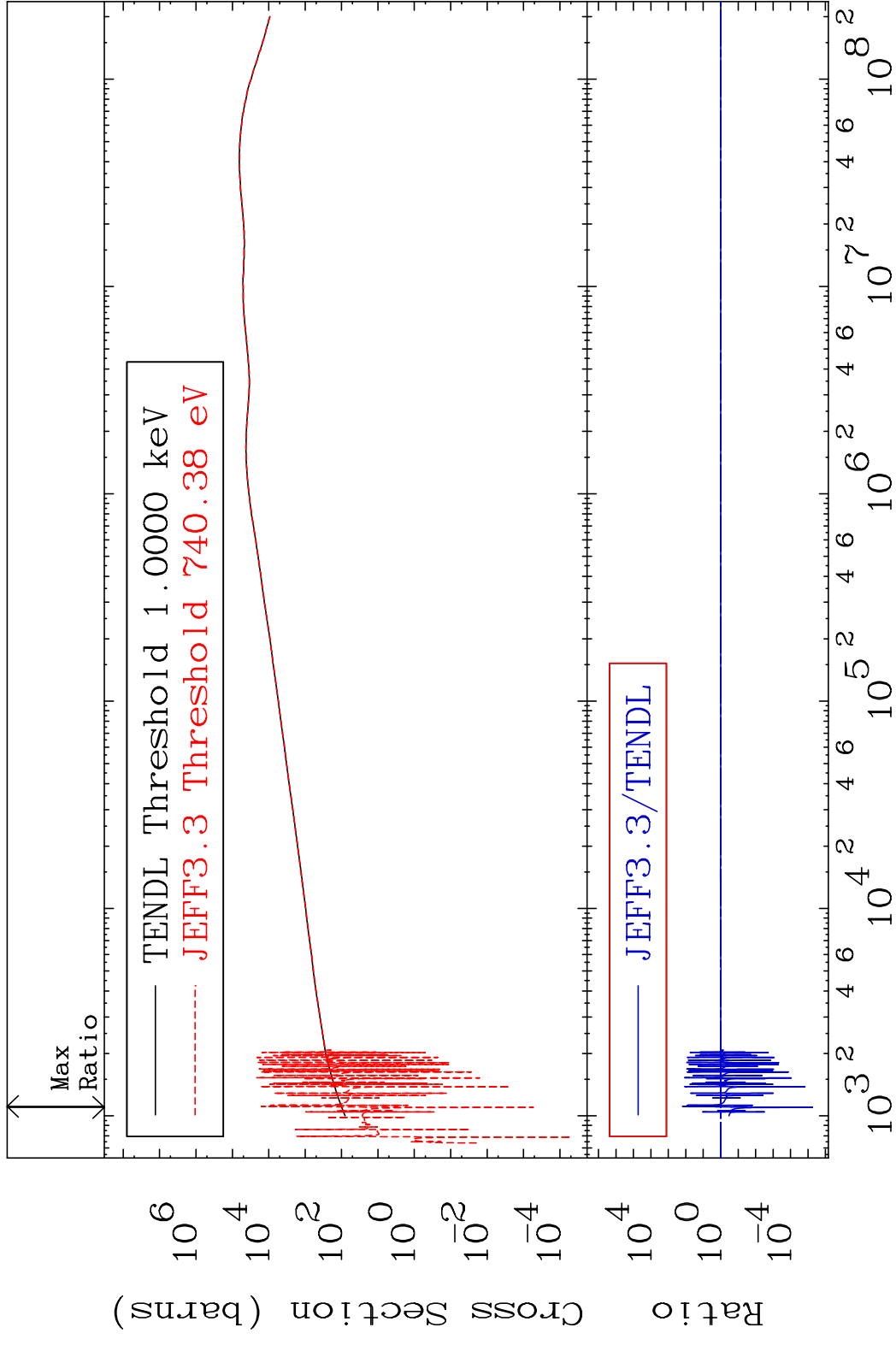
54-Xe-124

MAT 5425

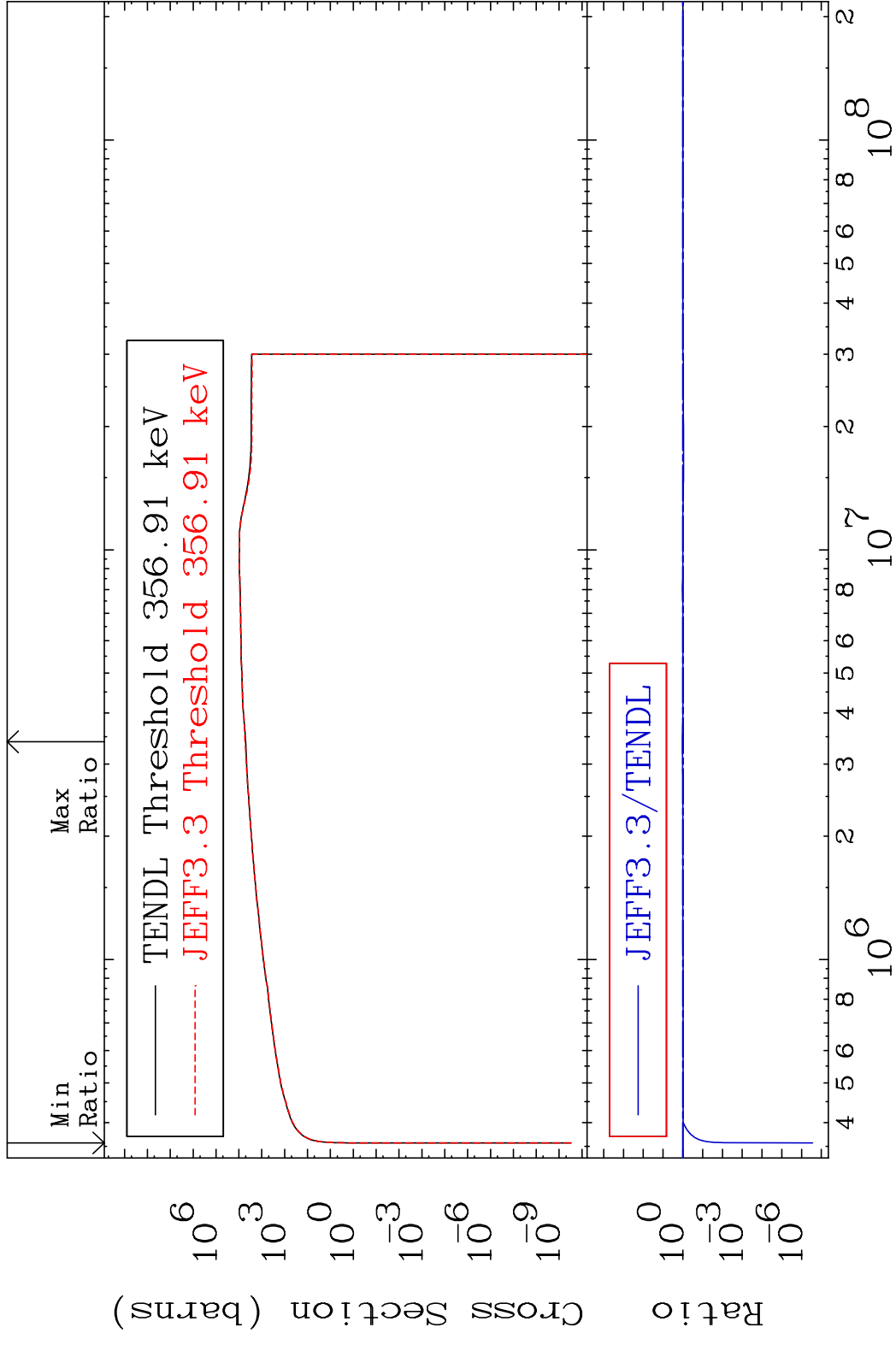
Dpa elastic (mt2)

54-Xe-124

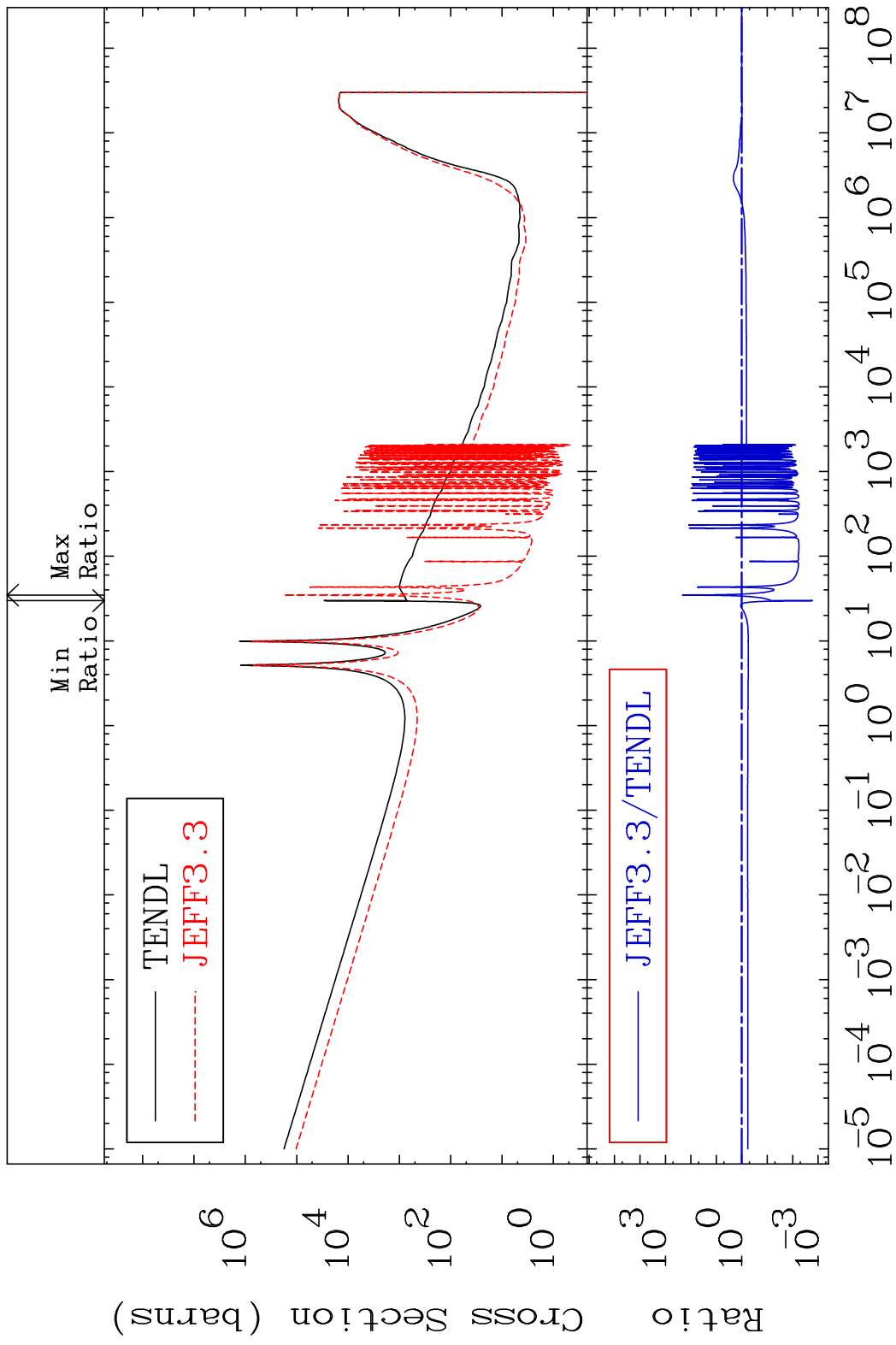
Cross Section -100.0 To 9999. %



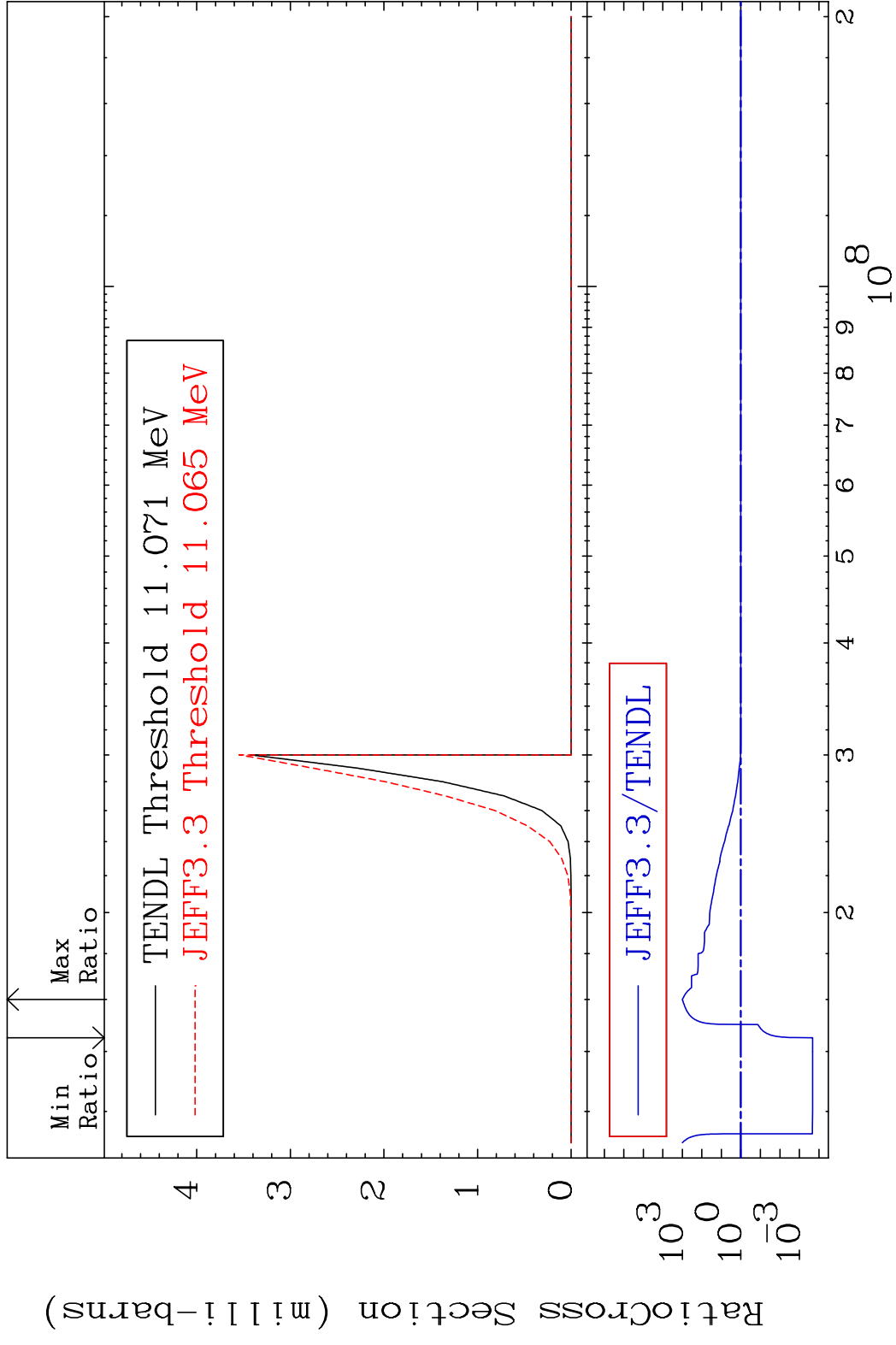
MAT 5425 Dpa inelastic (mt51-91) 54-Xe-124
 Cross Section -100.0 To 5.680 %



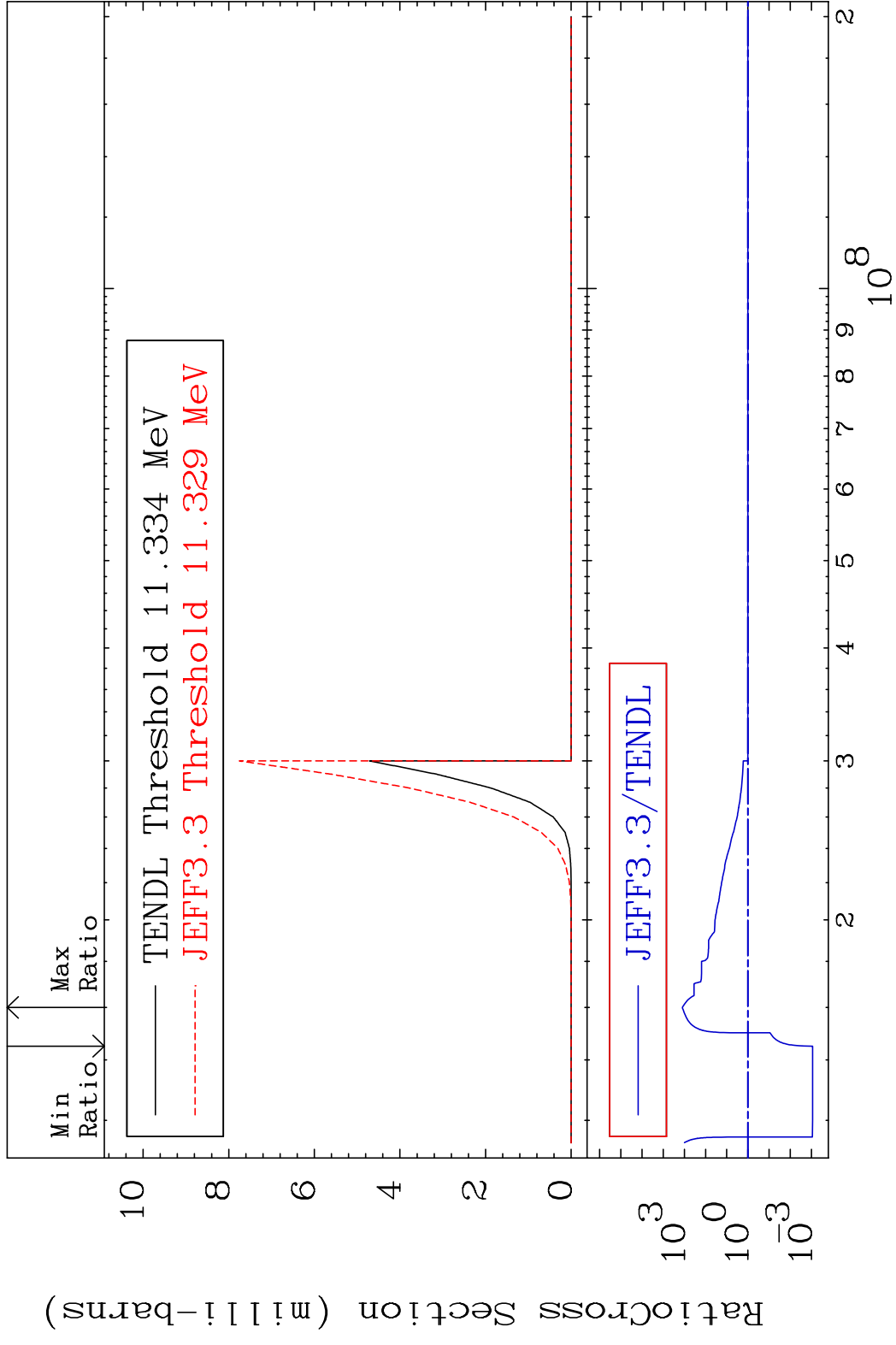
MAT 5425 Dpa disappearance (mt102 -120) 54-Xe-124
 Cross Section -99.83 To 9999. %



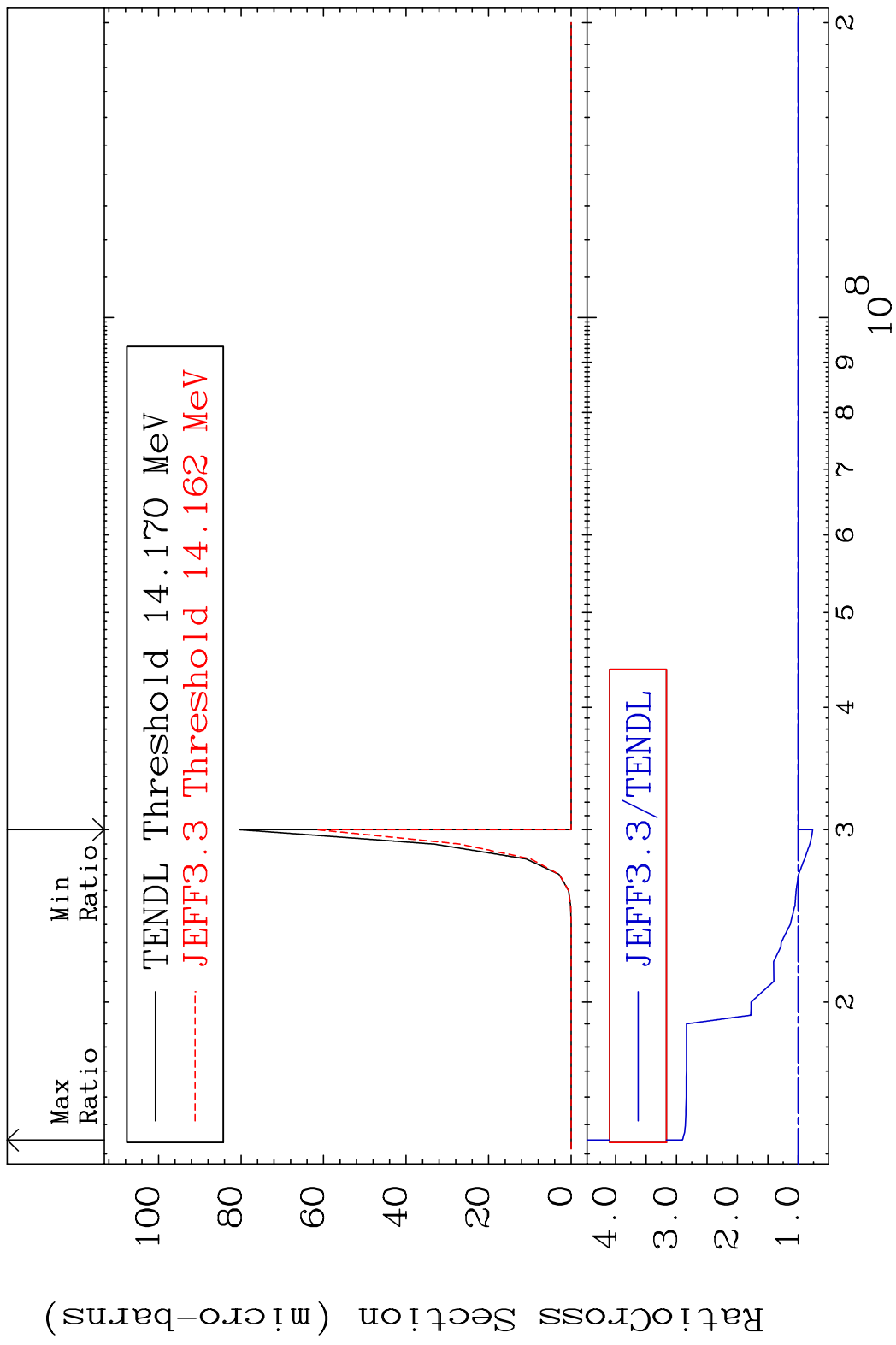
MAT 5425 (n,2n) α :52-Te-119g 54-Xe-124
 Radionuclide Production Cross Section 98.981 dth 9999. %



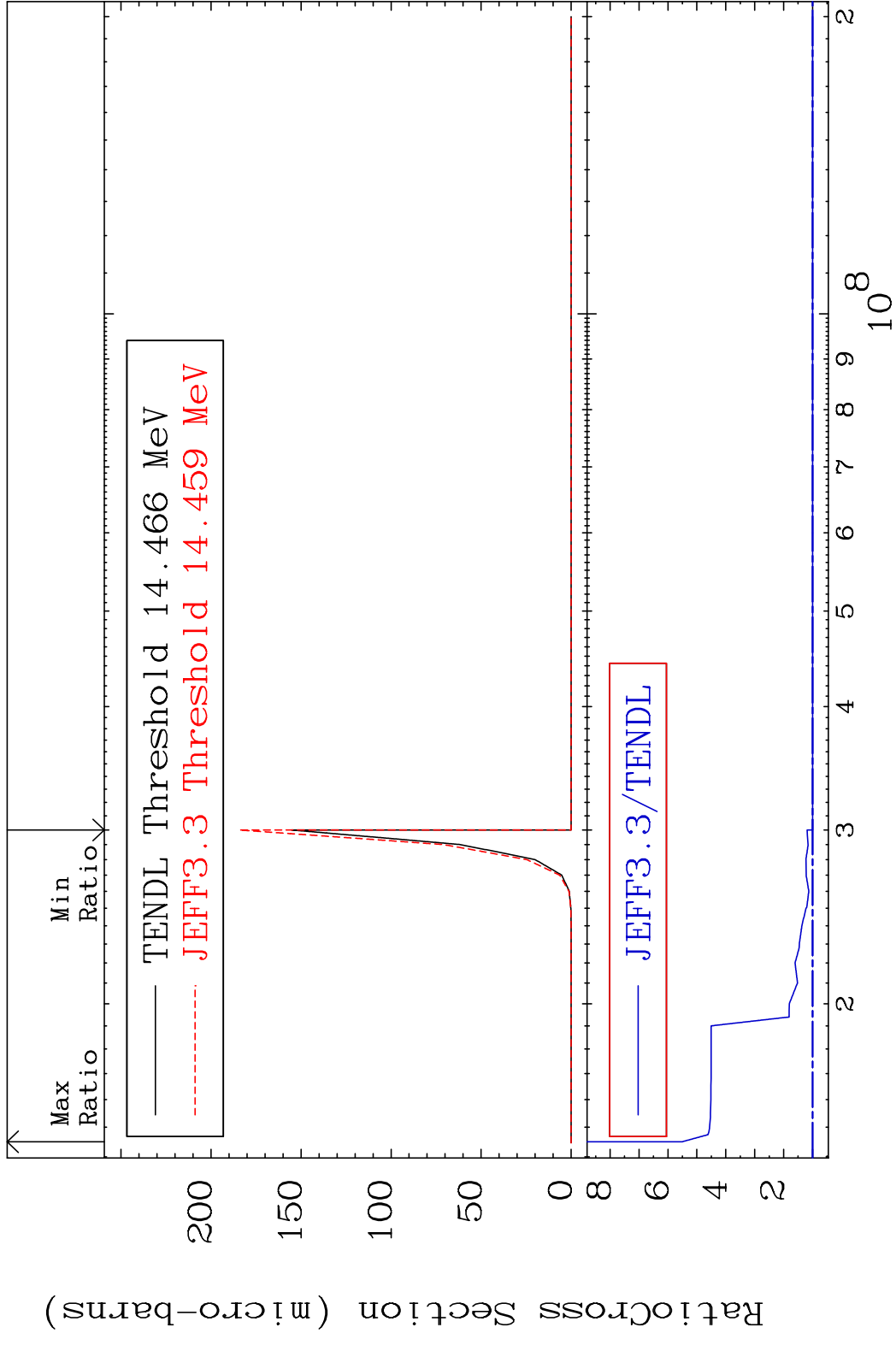
MAT 5425 (n,2n) α :52-Te-119m2 54-Xe-124
 Radionuclide Production Cross Section 99e01d10 9999. %



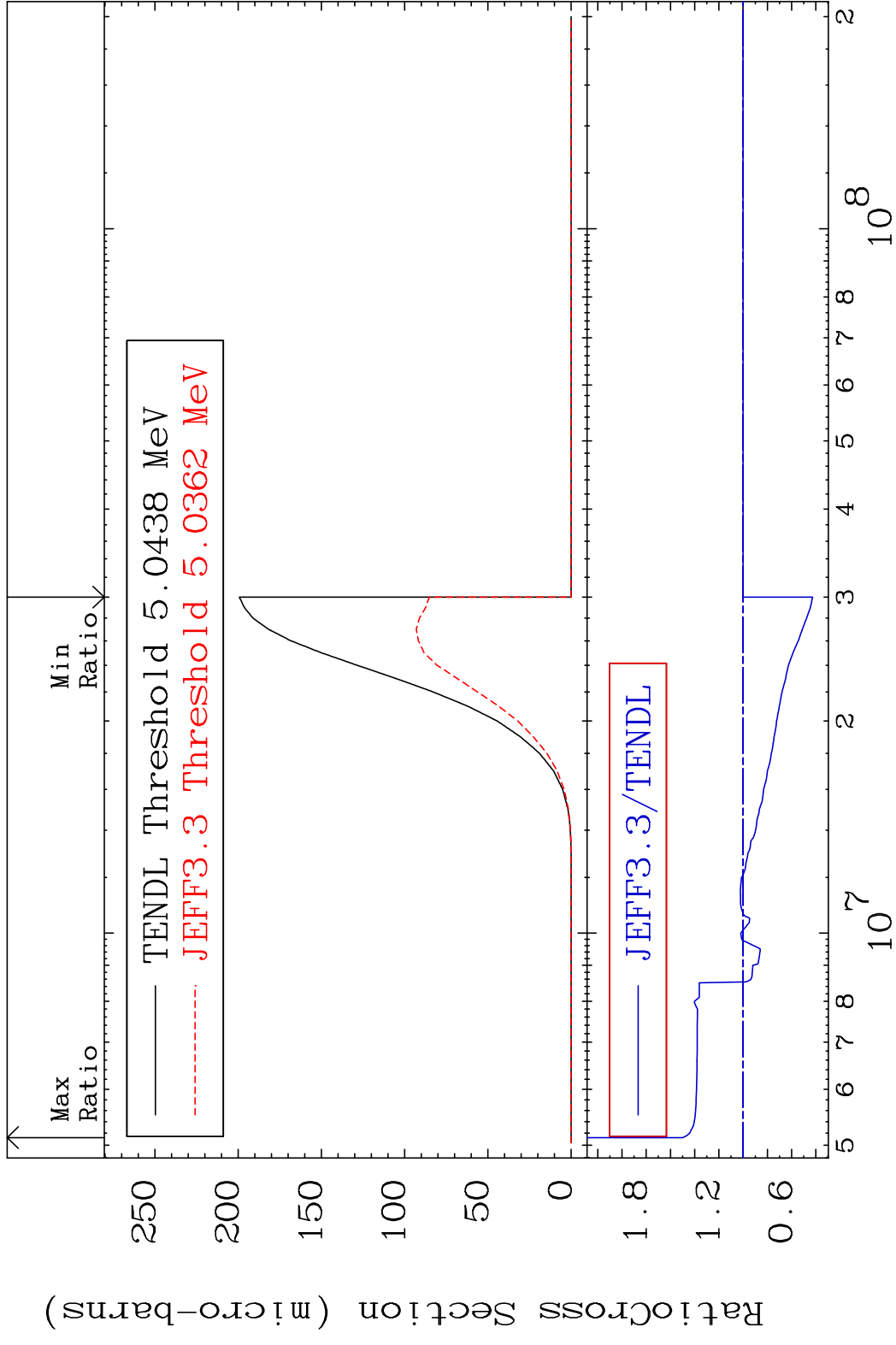
MAT 5425 (n, n') He-3:52-Te-121g 54-Xe-124
 Radionuclide Production Cross Section 190.4 %



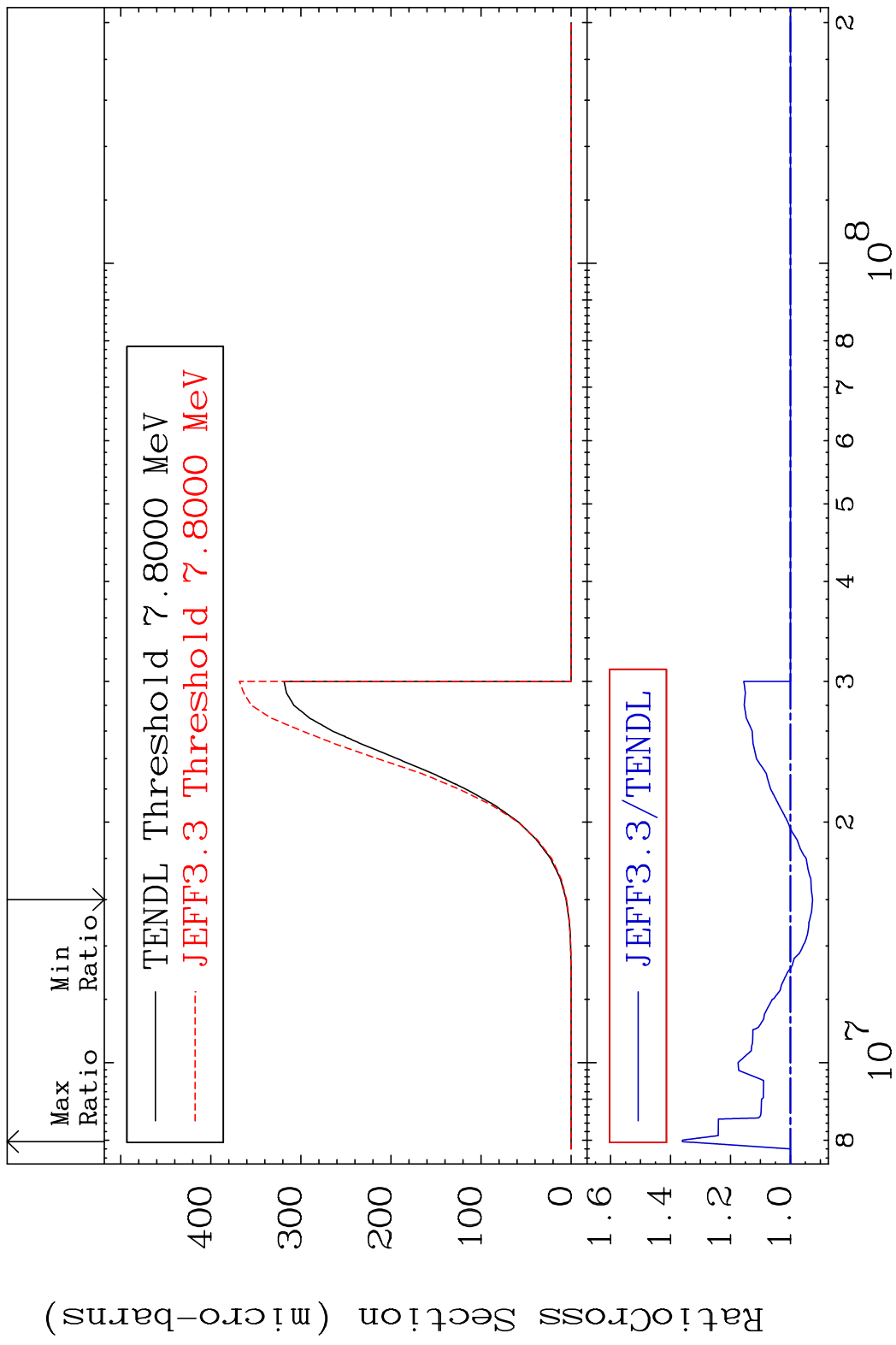
MAT 5425 (n, n') He-3:52-Te-121m2 54-Xe-124
 Radionuclide Production Cross Section 450.1 %



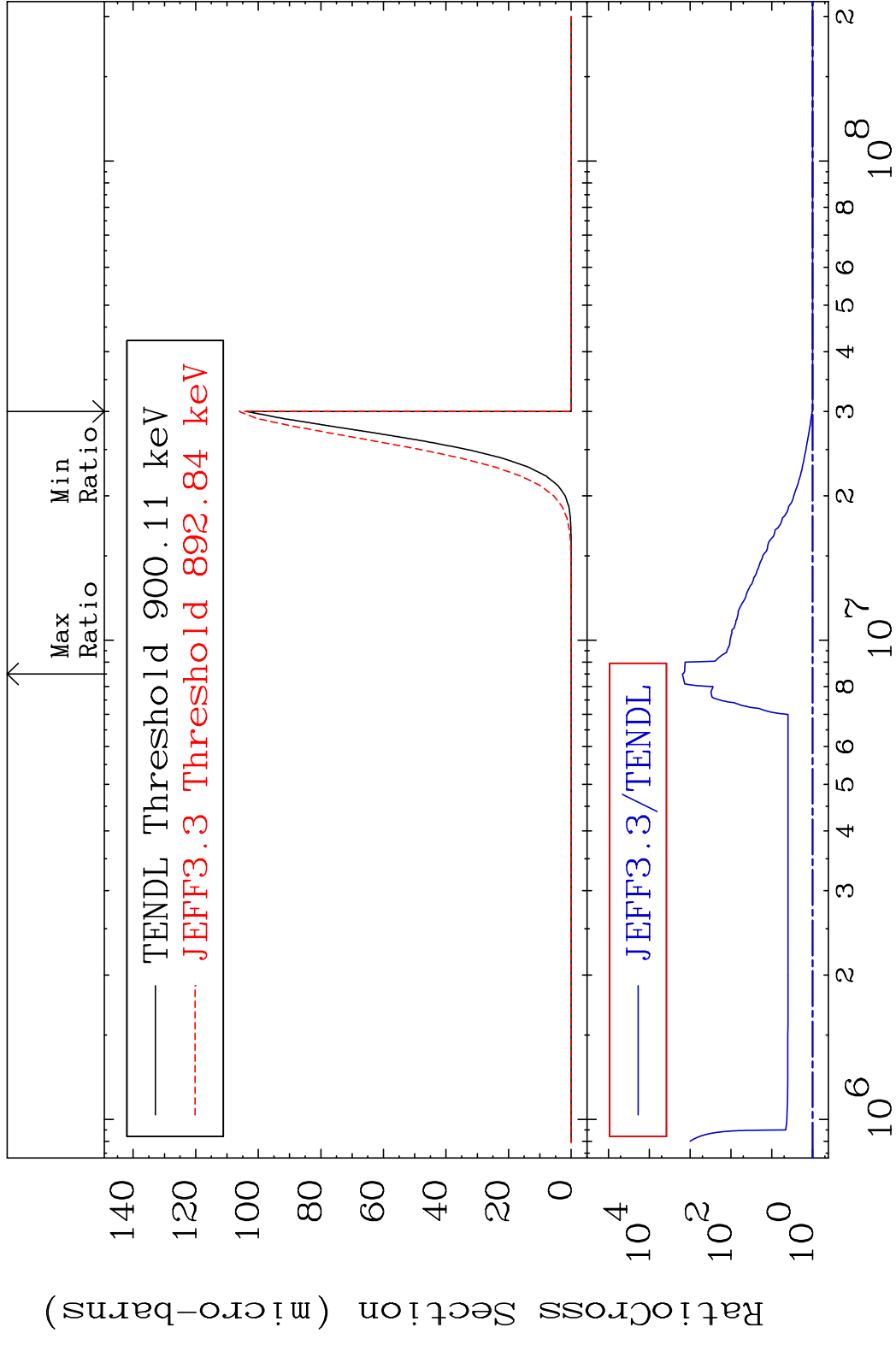
MAT 5425 (n,2p):52-Te-123g 54-Xe-124
 Radionuclide Production Cross Section 5426 50.16 %



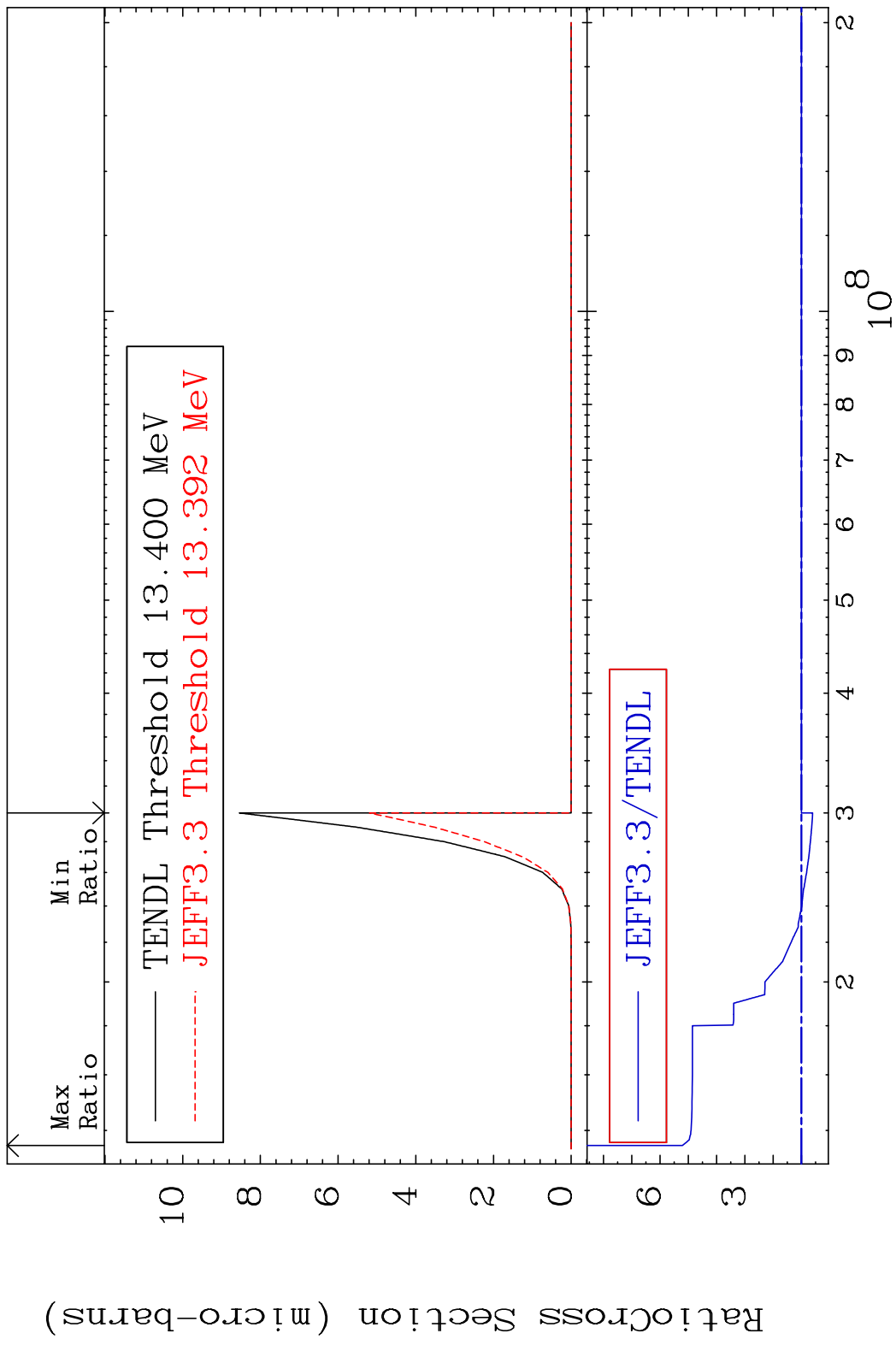
MAT 5425 (n,2p):52-Te-123m2 54-Xe-124
 Radionuclide Production Cross Section 36.03 %



MAT 5425 (n,p) α :51-Sb-120g 54-Xe-124
 Radionuclide Production Cross Section 9999. %



MAT 5425 (n,p) t:52-Te-121g 54-Xe-124
 Radionuclide Production Cross Section 420.9 %



MAT 5425 (n,p) t:52-Te-121m2 54-Xe-124
 Radionuclide Production Cross Section 476.6 %

