

Program Complot
(Version 2021-1)

by

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(Present Contact Information)

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Press Mouse Button to Start

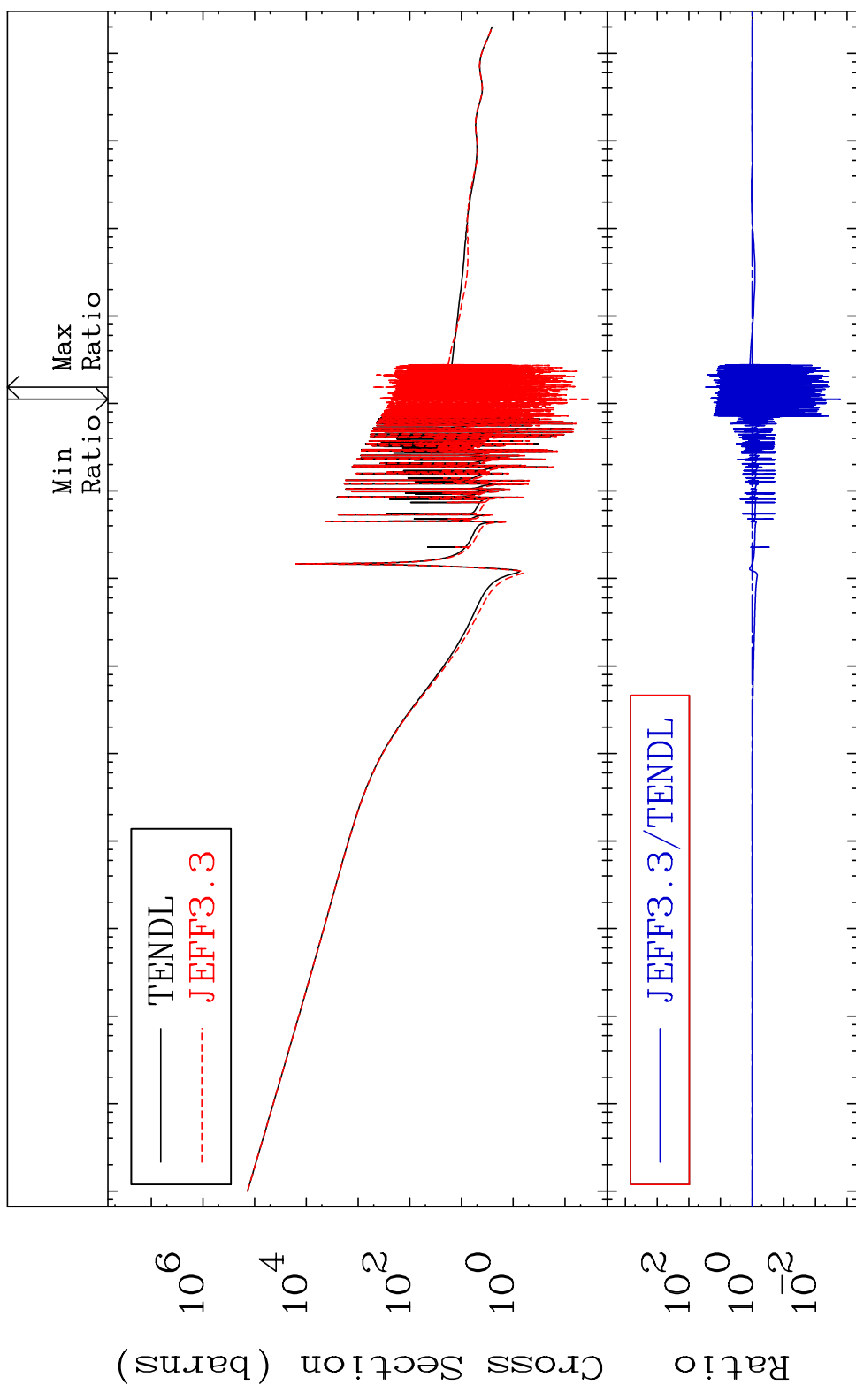
MAT 6649

Total

66-Dy-164

Cross Section

-99.84 To 2815. %



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

1

Incident Energy (eV)

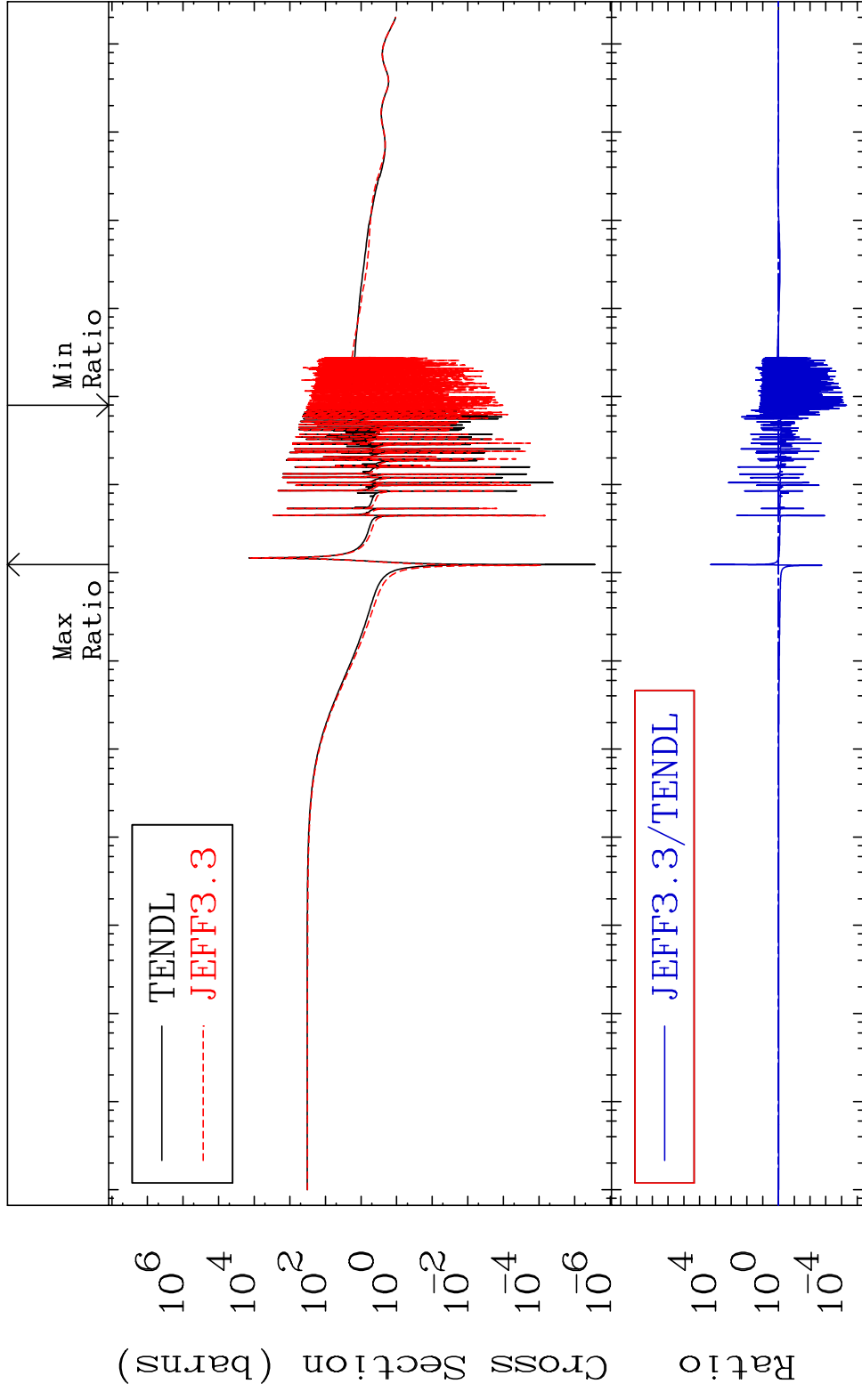
66-Dy-164

MAT 6649

66-Dy-164

Elastic

Cross Section -100.0 To 9999. %

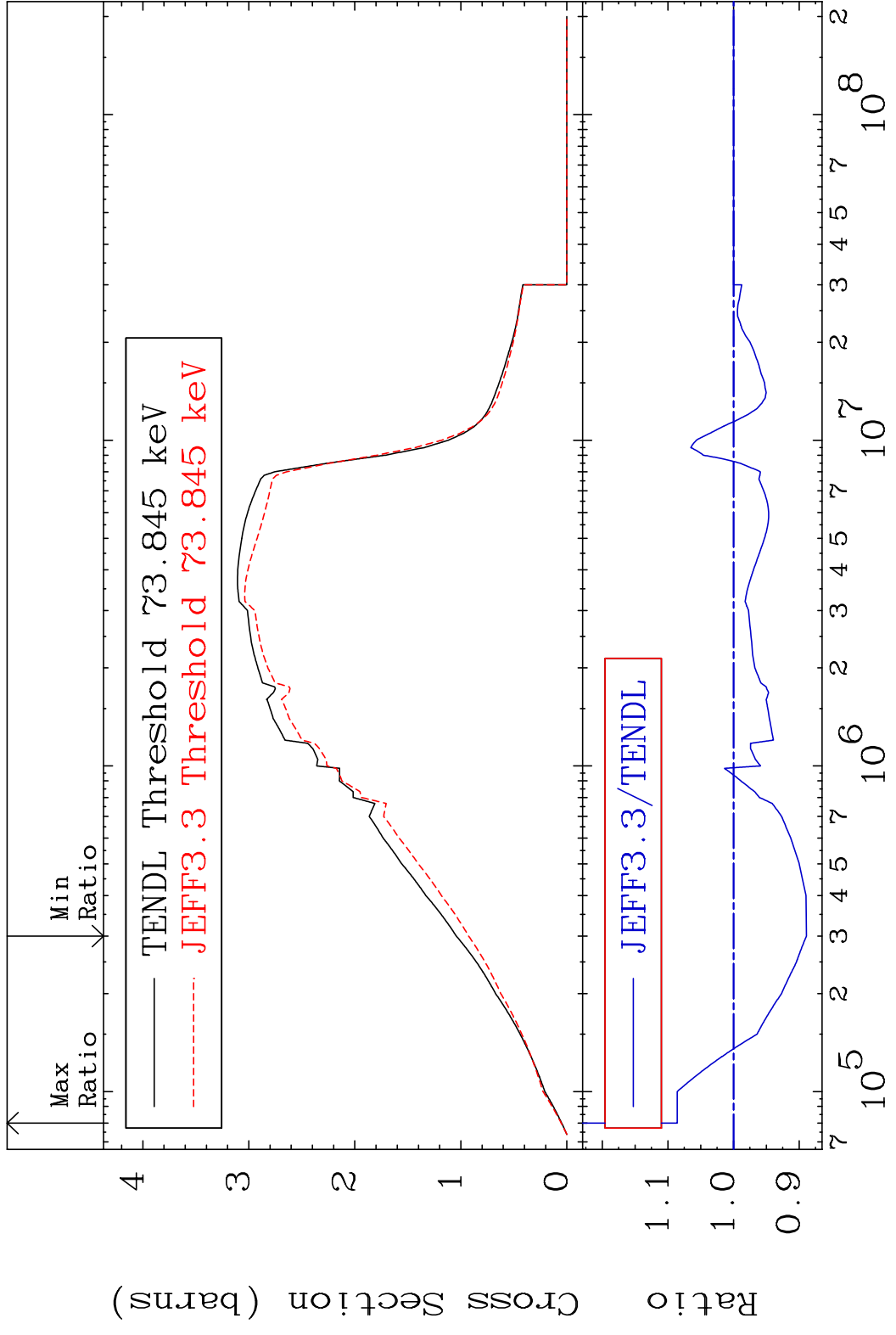


2

Incident Energy (eV)

66-Dy-164

MAT 6649 Inelastic 66-Dy-164
 Cross Section -11.10 To 8.586 %



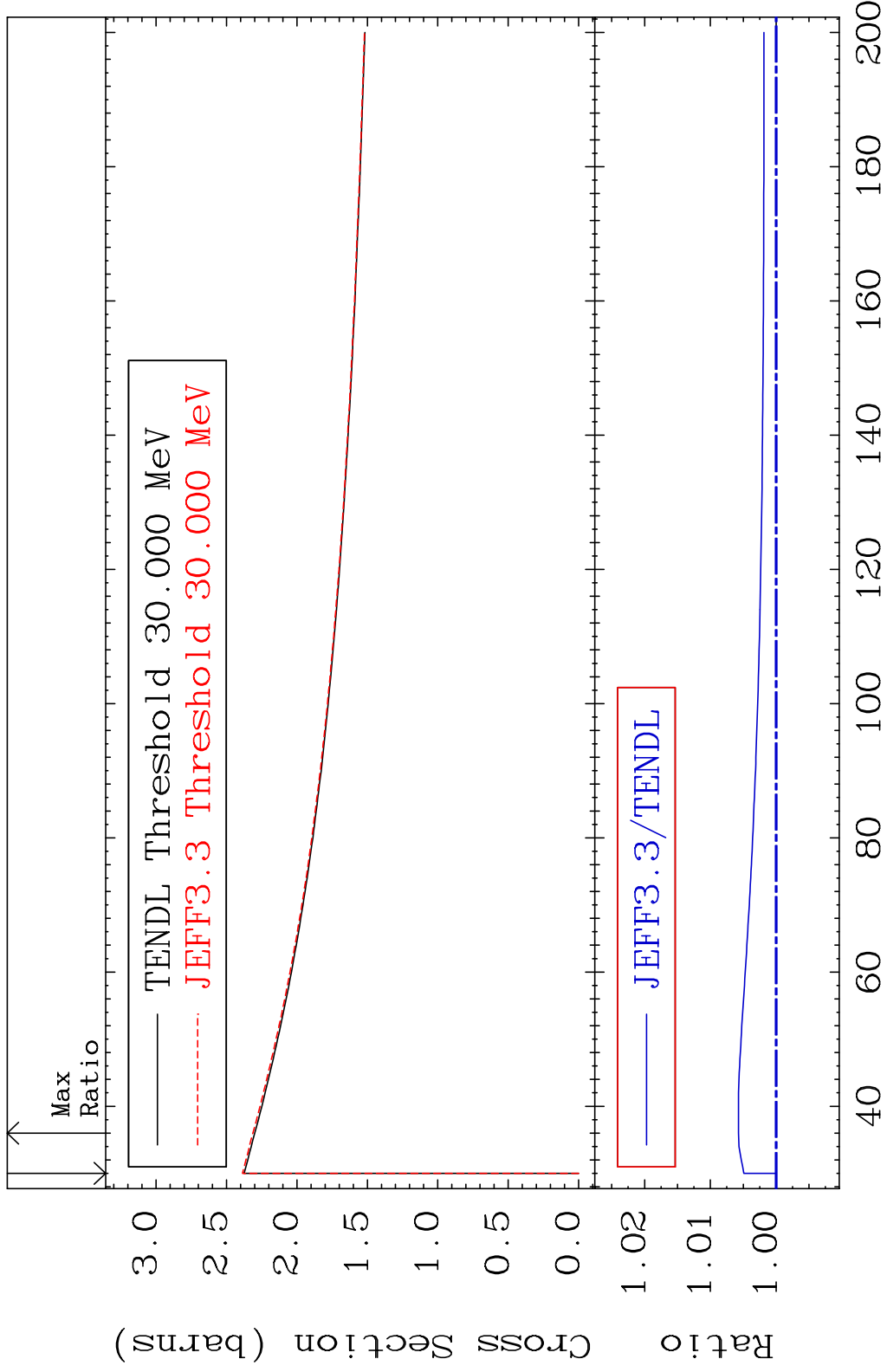
3 Incident Energy (eV) 66-Dy-164

MAT 6649

(n, remainder)

66-Dy-164

Cross Section 0.000 To 0.574 %

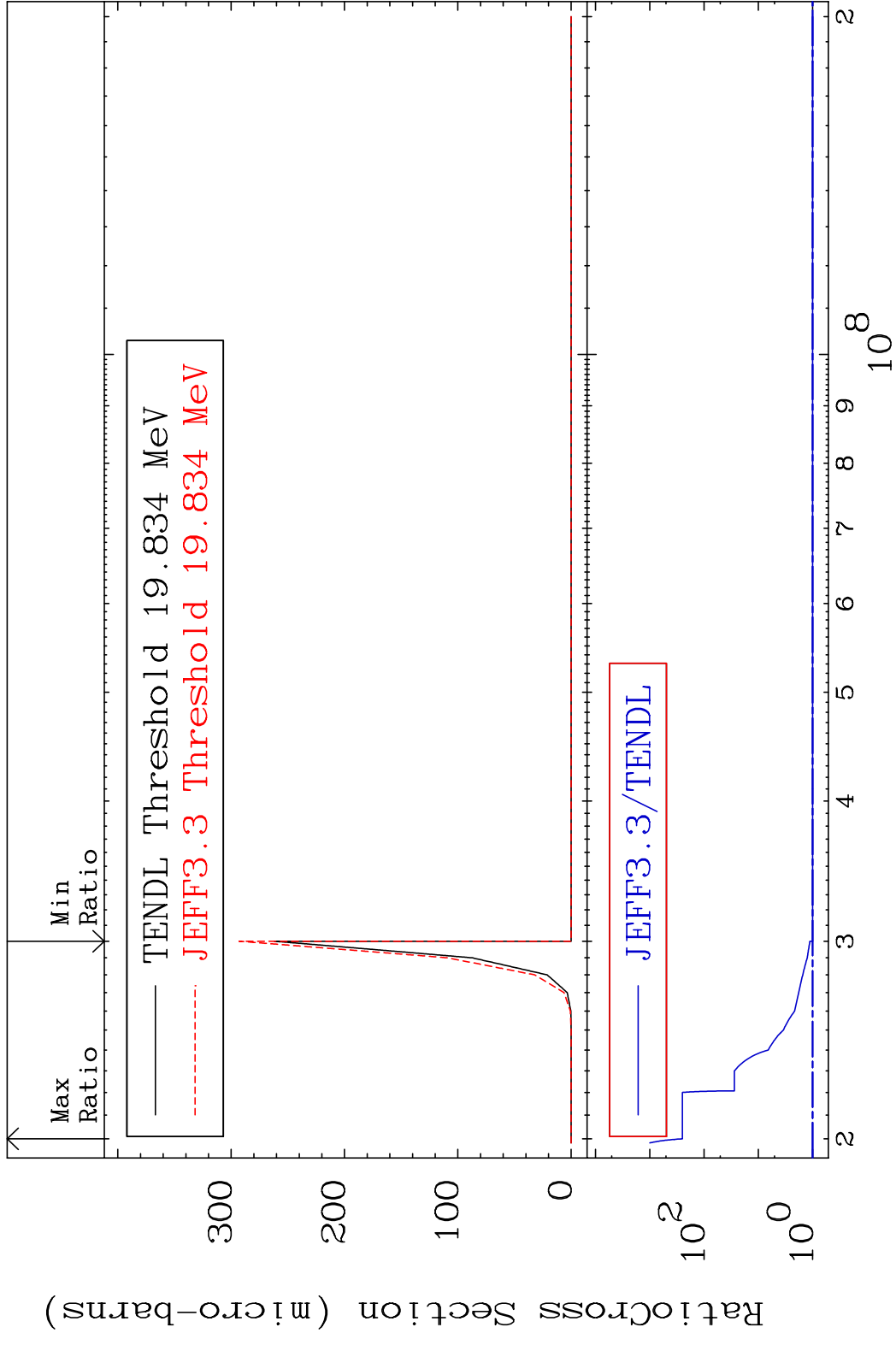


4

Incident Energy (MeV)

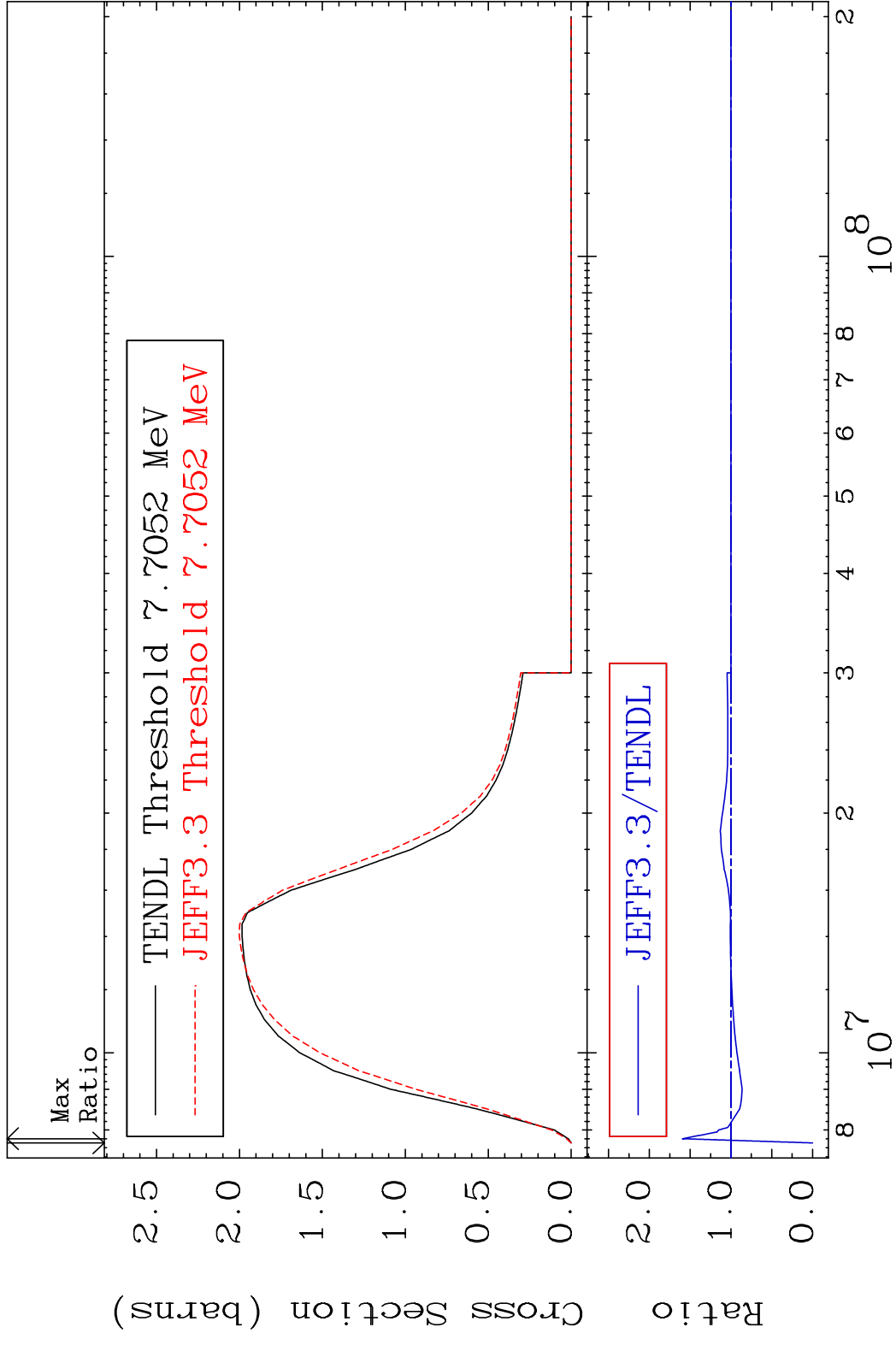
66-Dy-164

MAT 6649 (n,2n) d 66-Dy-164
 Cross Section 0.000 To 9999. %



5 66-Dy-164

MAT 6649 (n,2n) 66-Dy-164
 Cross Section -100.0 To 59.56 %

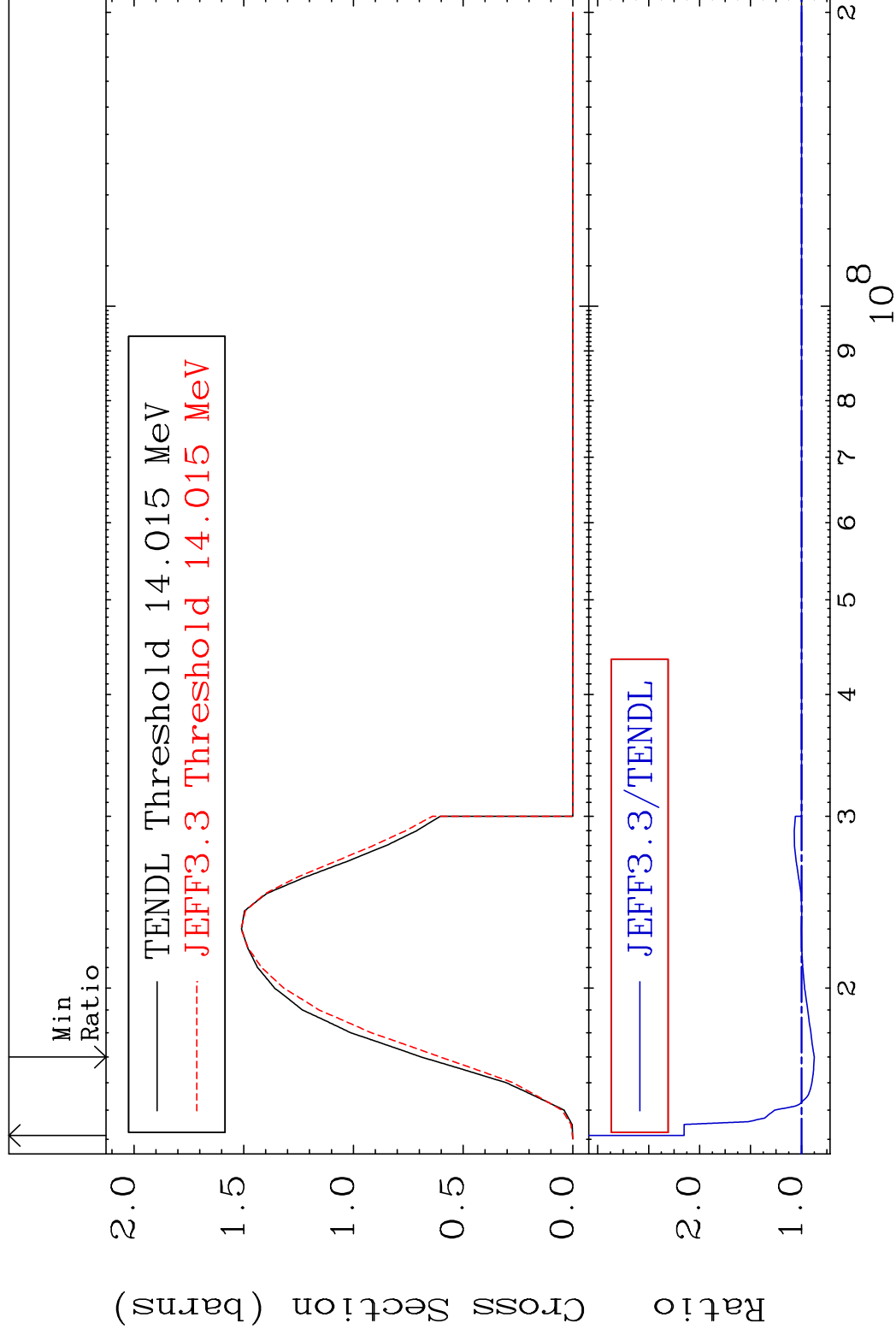


MAT 6649

(n,3n)

66-Dy-164

Cross Section -12.56 To 115.2 %

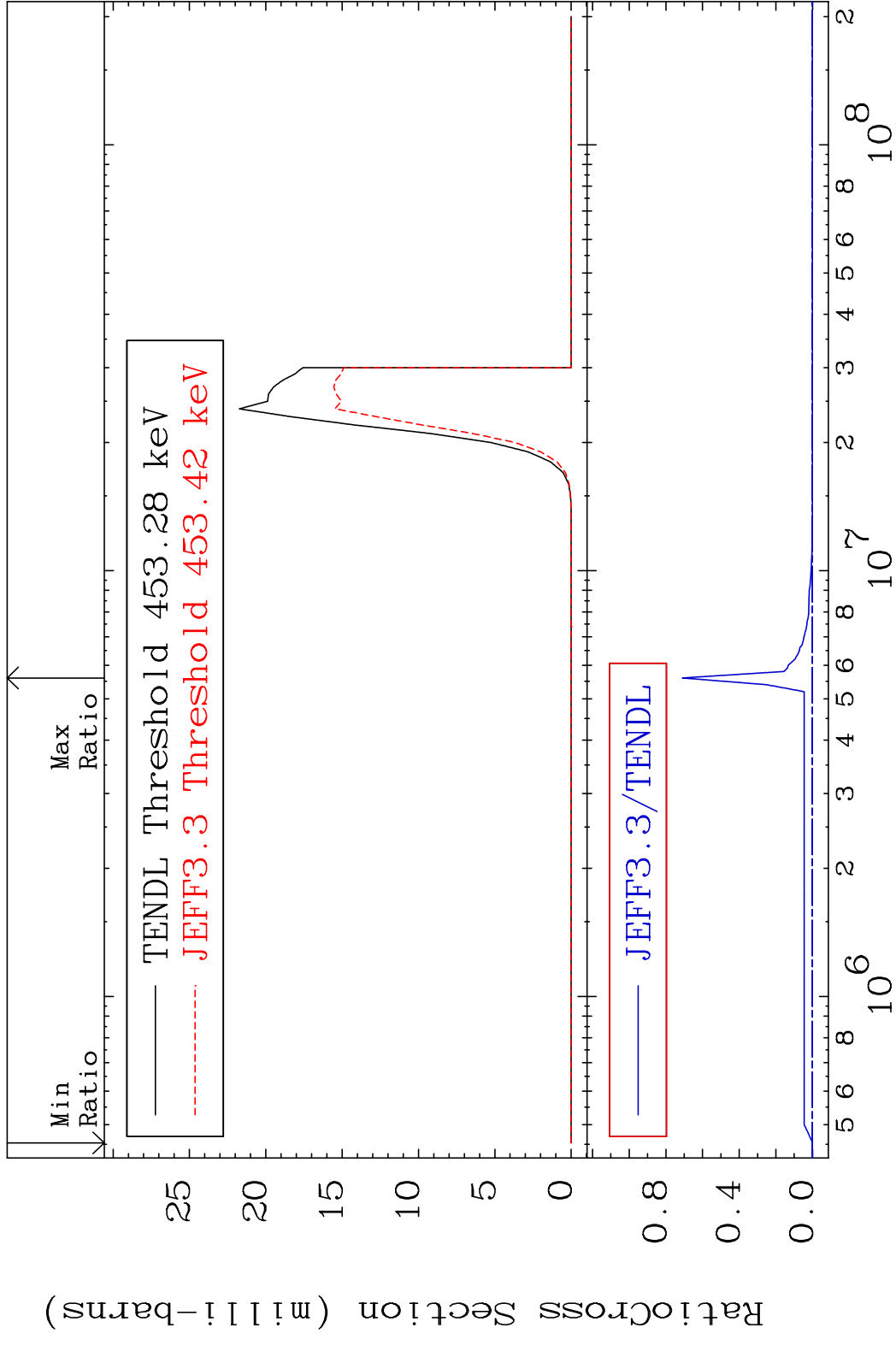


7

Incident Energy (eV)

66-Dy-164

MAT 6649 (n, n') α 66-Dy-164
 Cross Section -100.0 To 9999. %



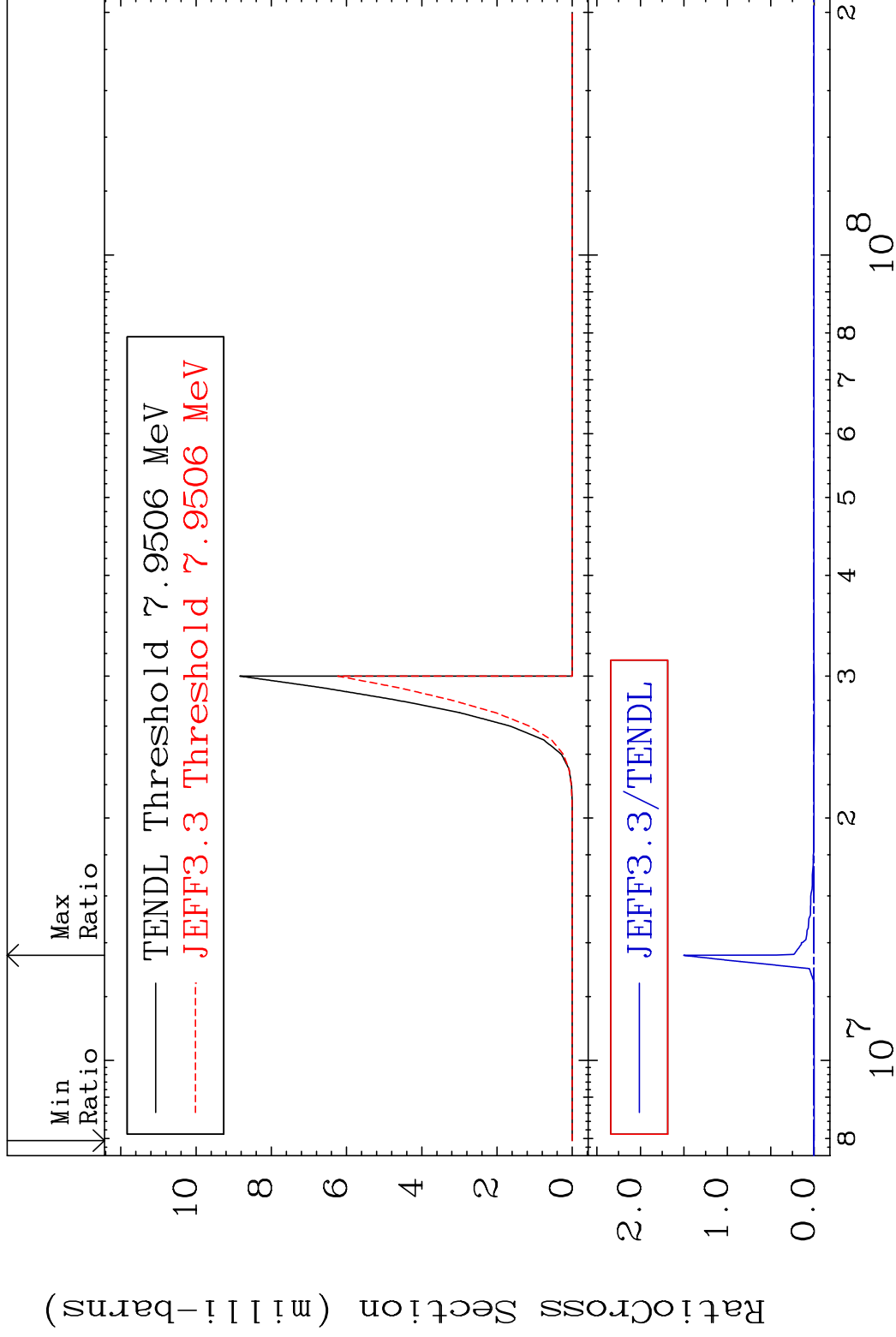
8 8 66-Dy-164

MAT 6649

(n,2n) α

66-Dy-164

Cross Section -100.0 To 9999. %



9

Incident Energy (eV)

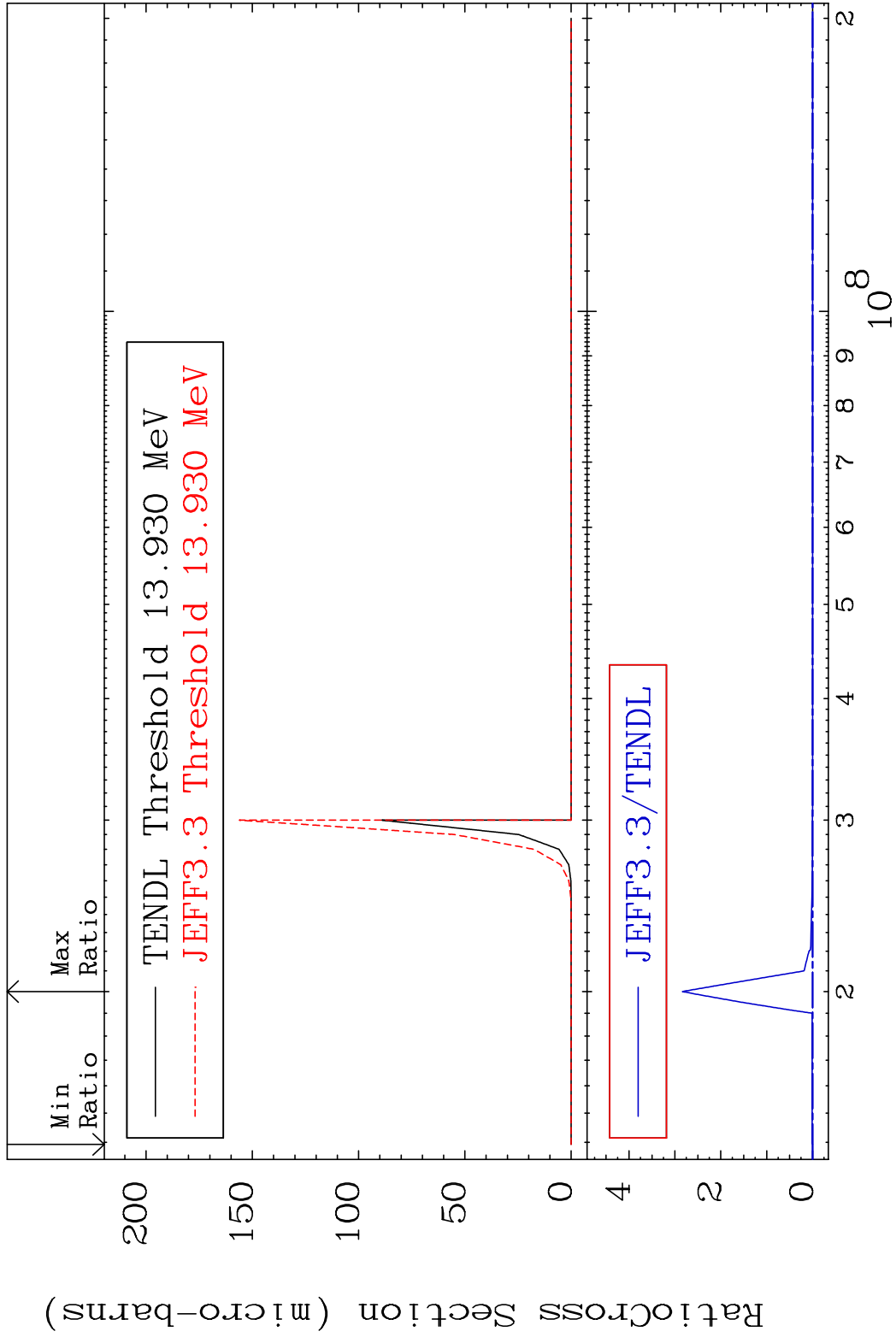
66-Dy-164

MAT 6649

(n,3n) α

66-Dy-164

Cross Section -100.0 To 9999. %



10

Incident Energy (eV)

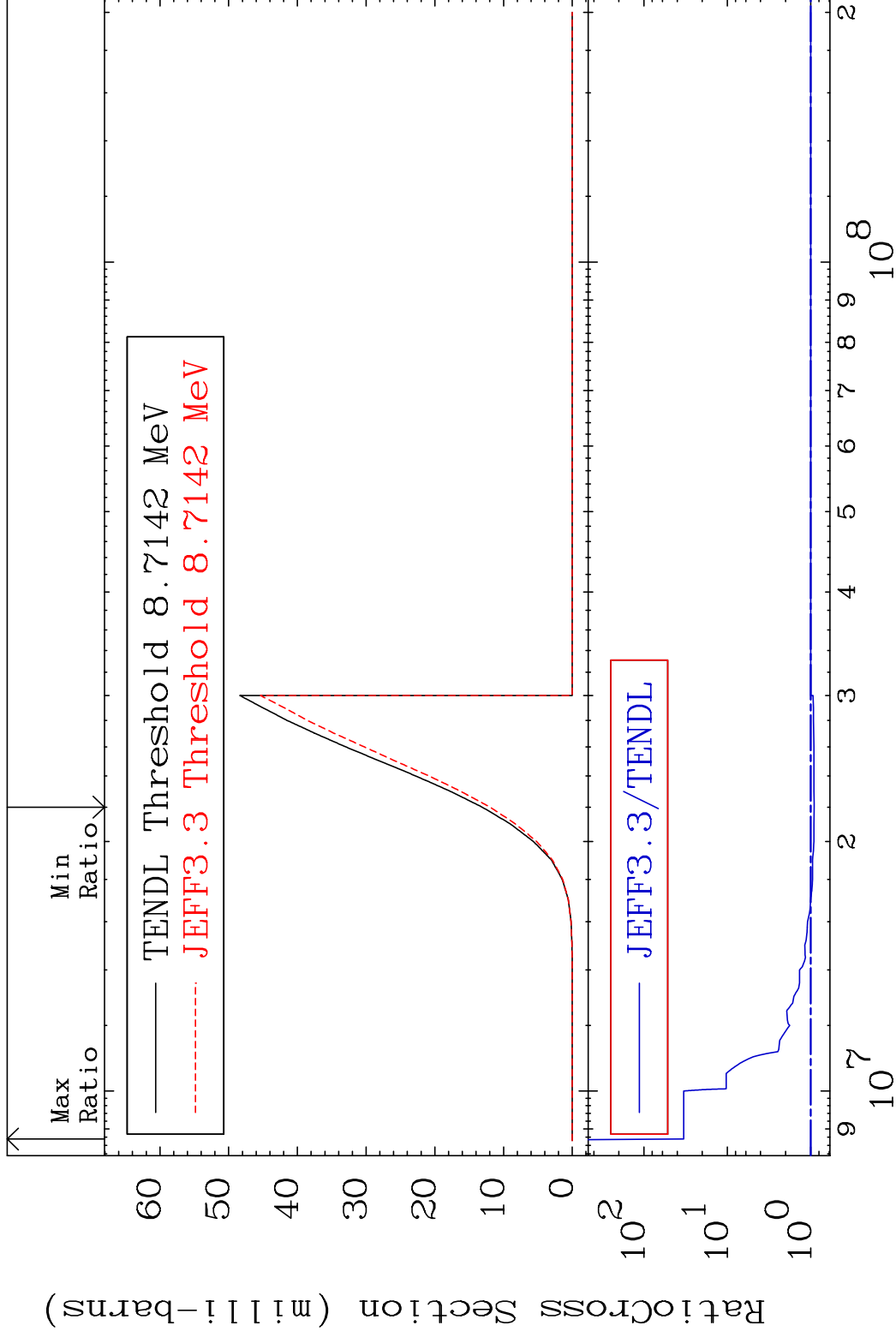
66-Dy-164

MAT 6649

(n, n') p

66-Dy-164

Cross Section -8.812 To 3246. %

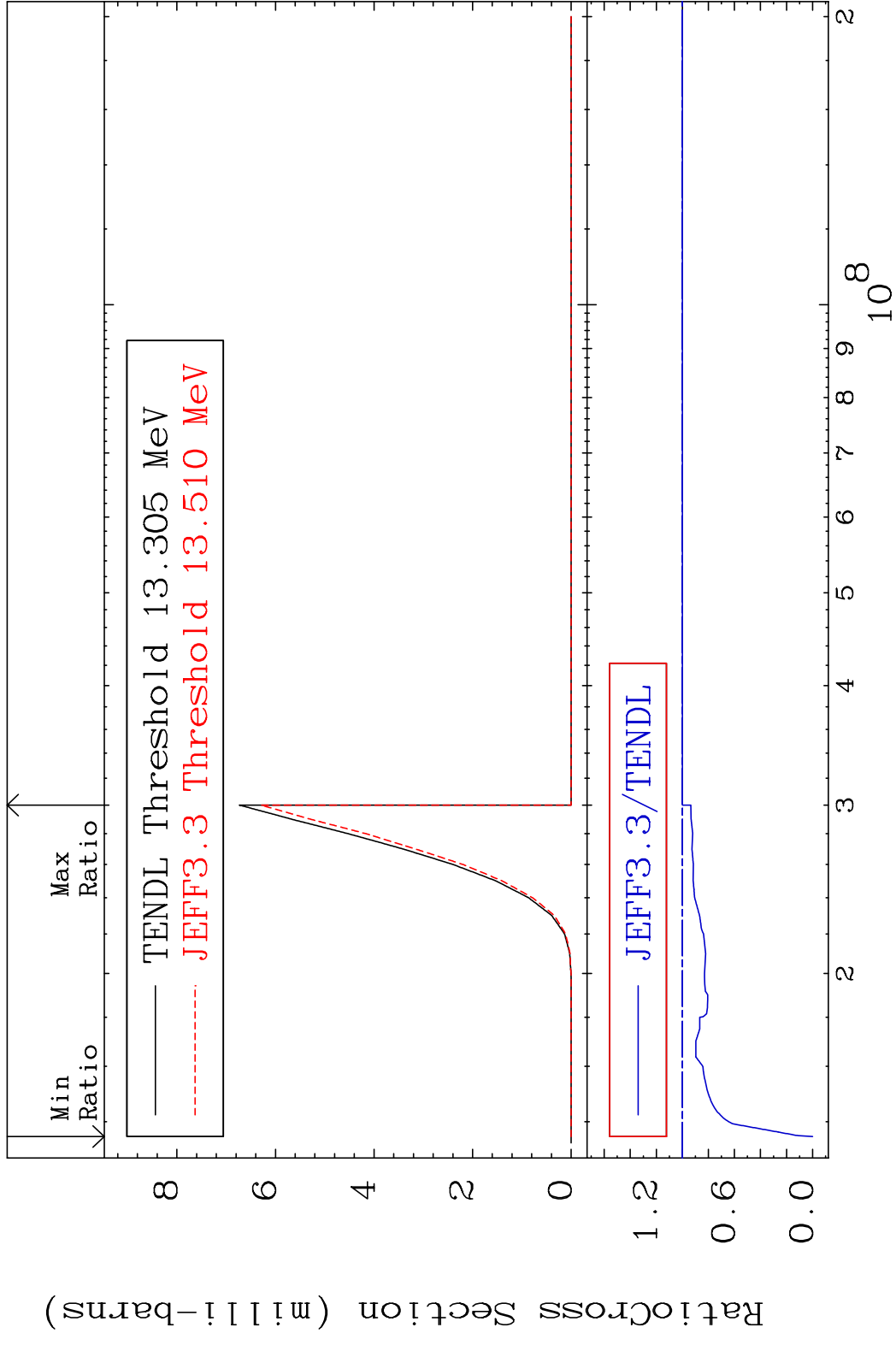


11

Incident Energy (eV)

66-Dy-164

MAT 6649 (n, n') d 66-Dy-164
 Cross Section -100.0 To 0.000 %

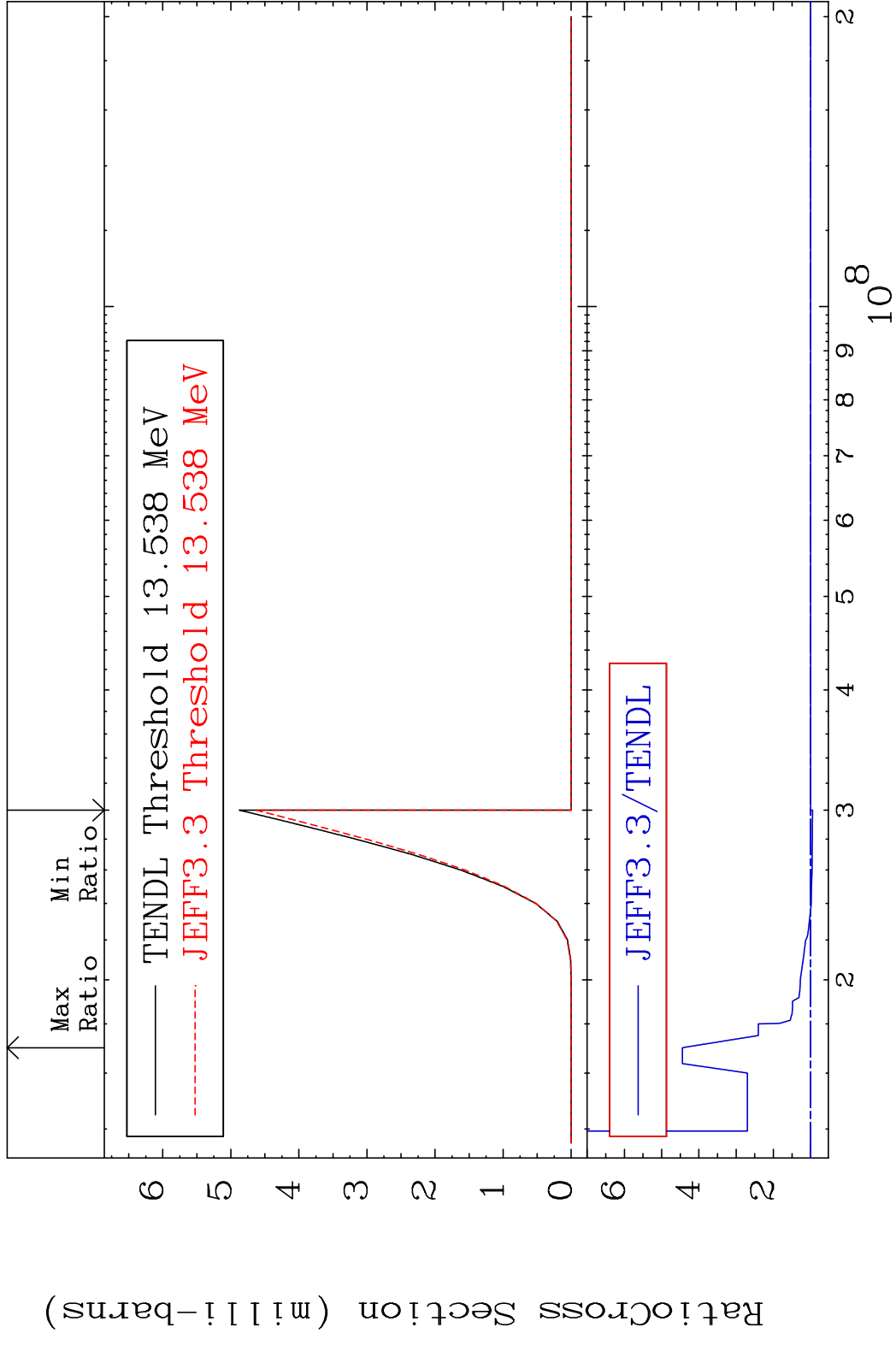


MAT 6649

(n, n') t

66-Dy-164

Cross Section -5.133 To 344.3 %

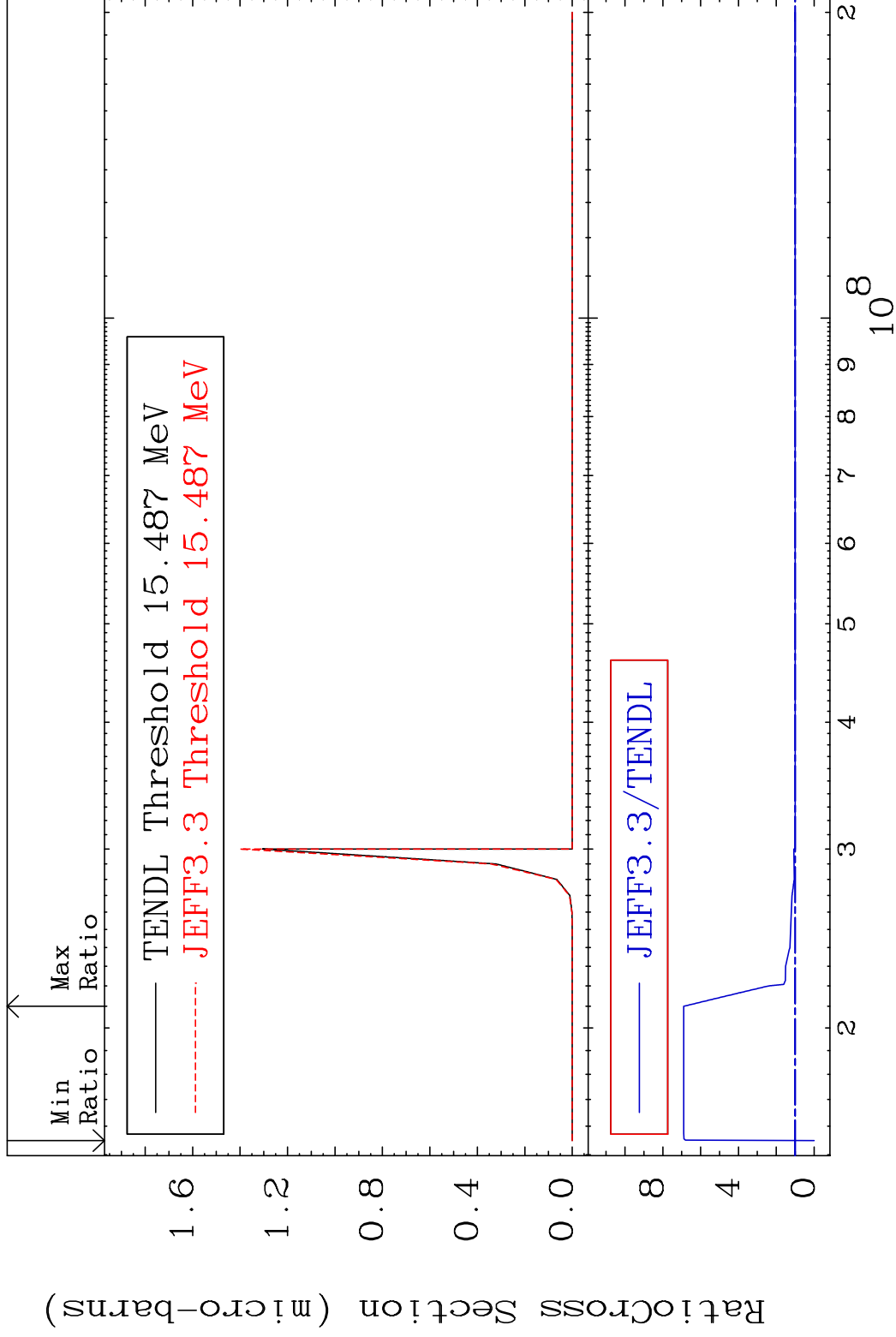


MAT 6649

(n,n') He-3

66-Dy-164

Cross Section -100.0 To 589.8 %



14

Incident Energy (eV)

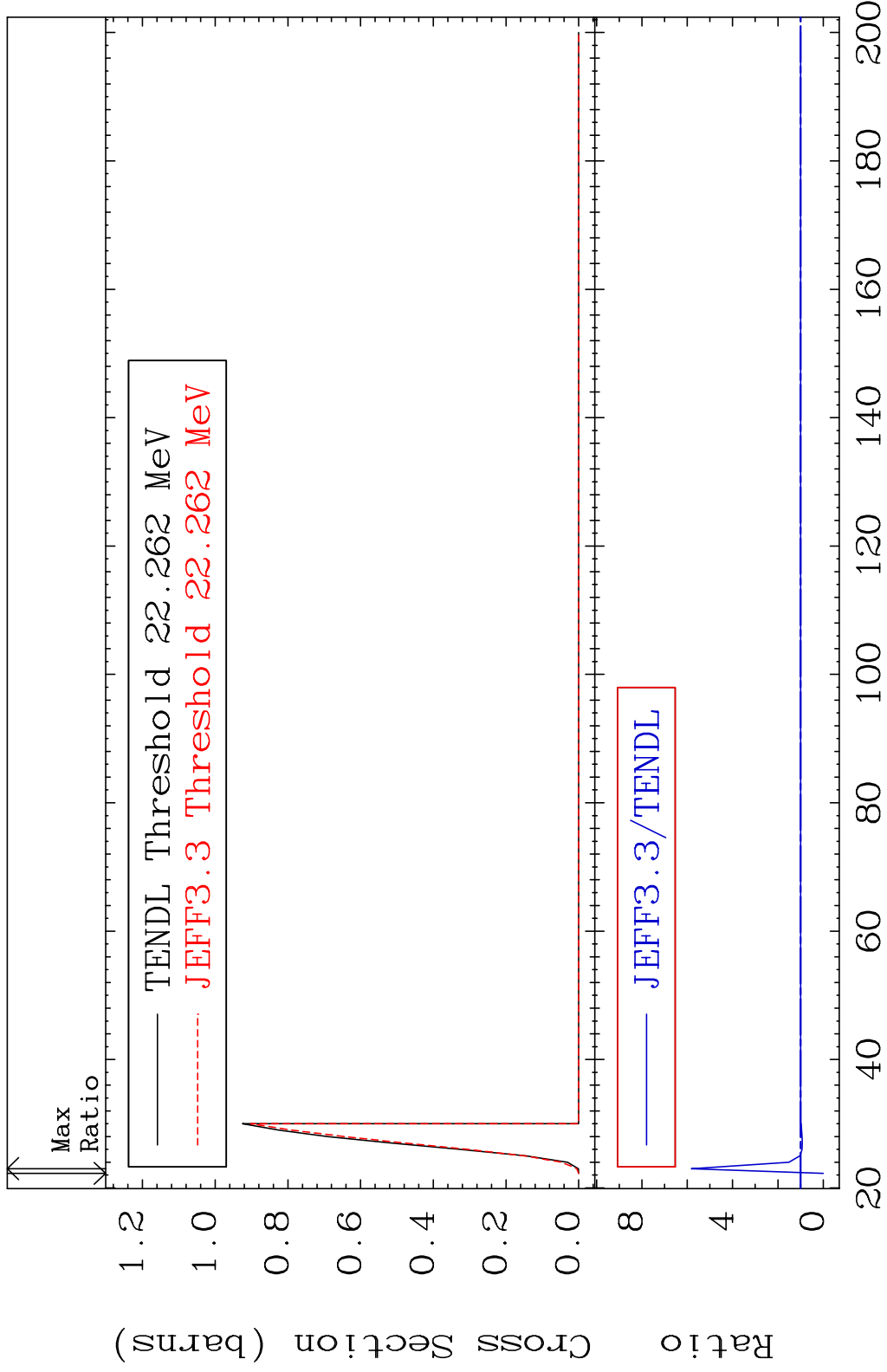
66-Dy-164

MAT 6649

(n, 4n)

66-Dy-164

Cross Section -100.0 To 482.0 %

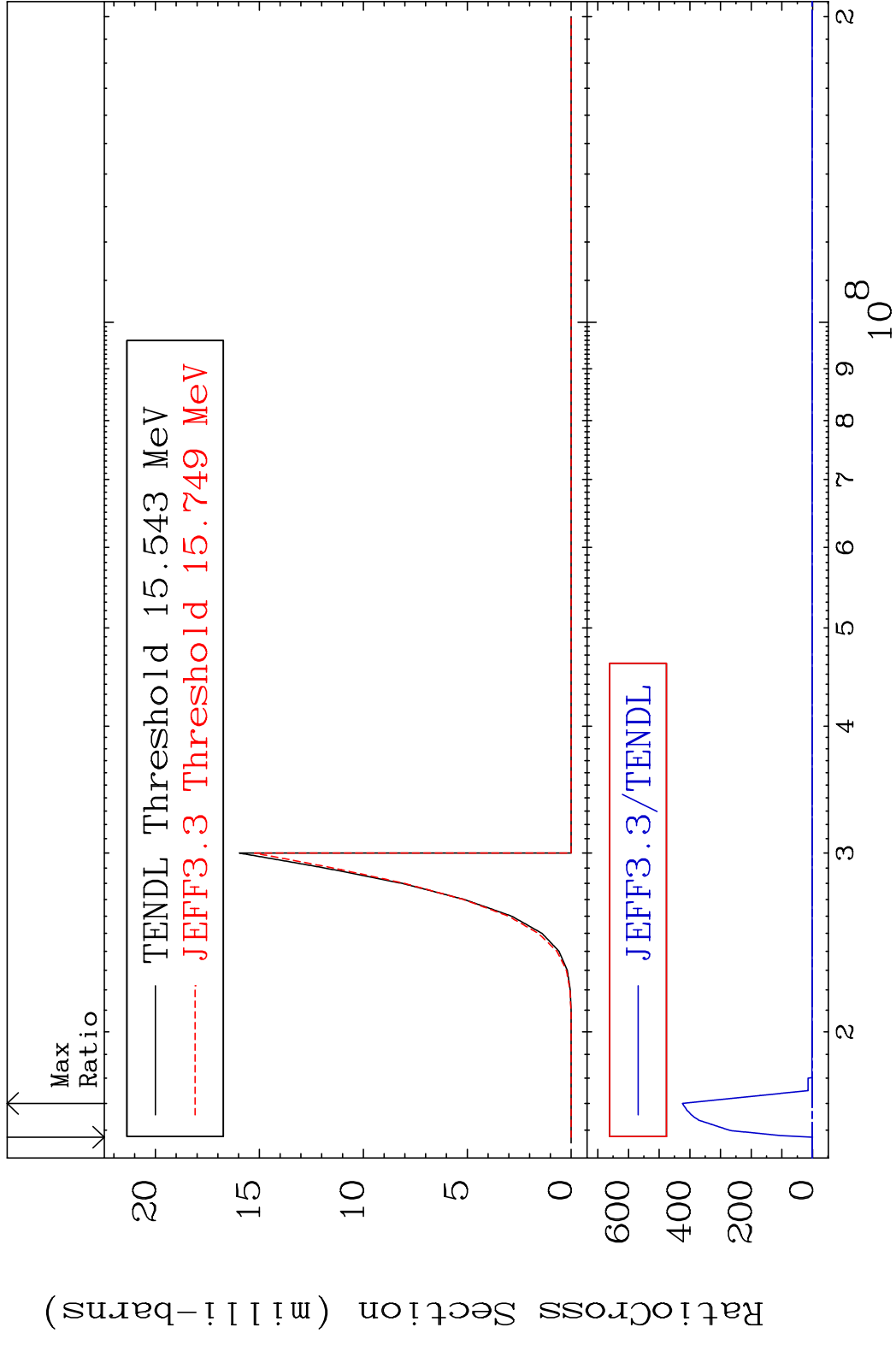


15

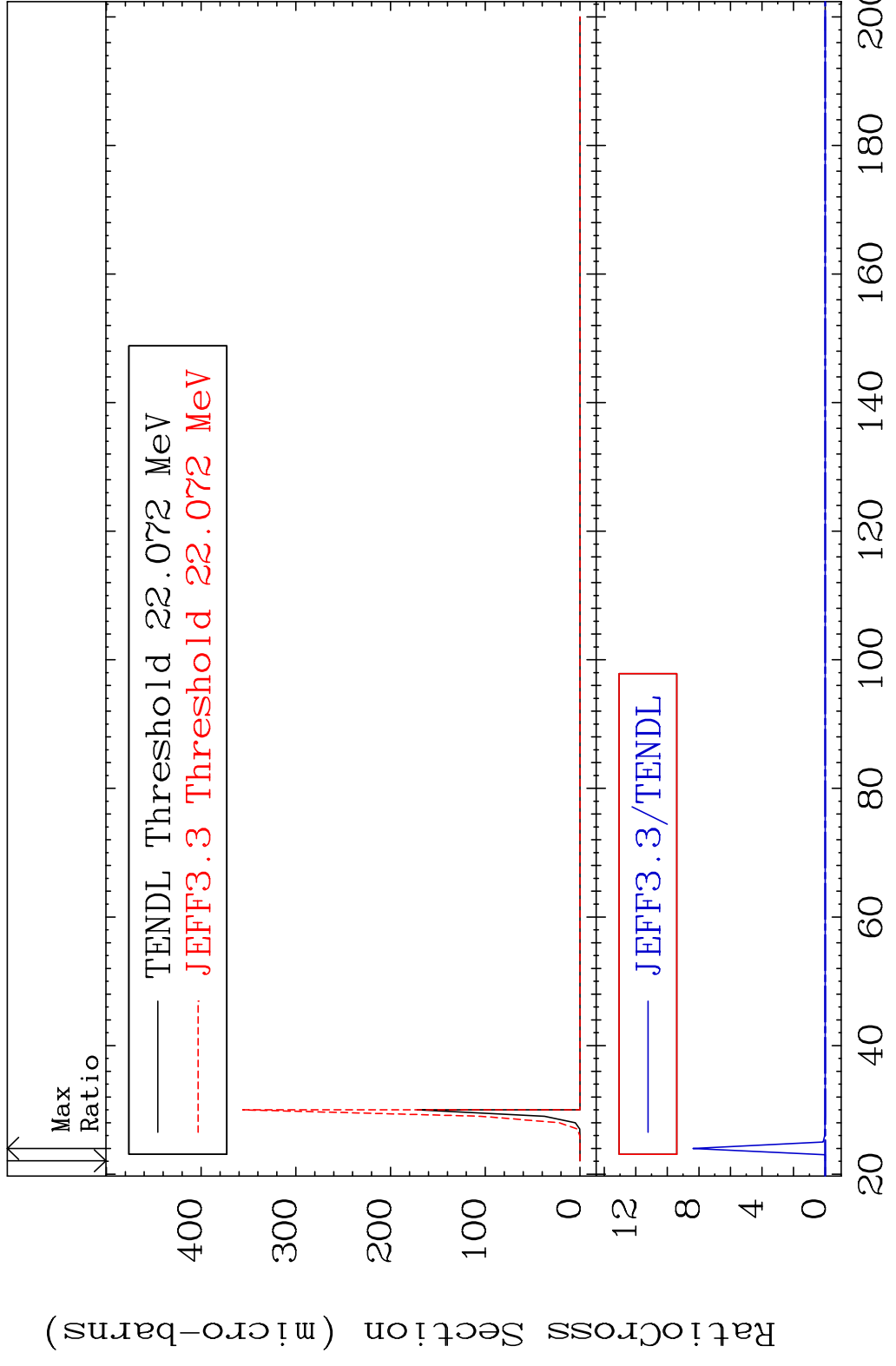
Incident Energy (MeV)

66-Dy-164

MAT 6649 (n,2n) p 66-Dy-164
 Cross Section -100.0 To 9999. %



MAT 6649 (n,3n) p 66-Dy-164
Cross Section -100.0 To 9999. %

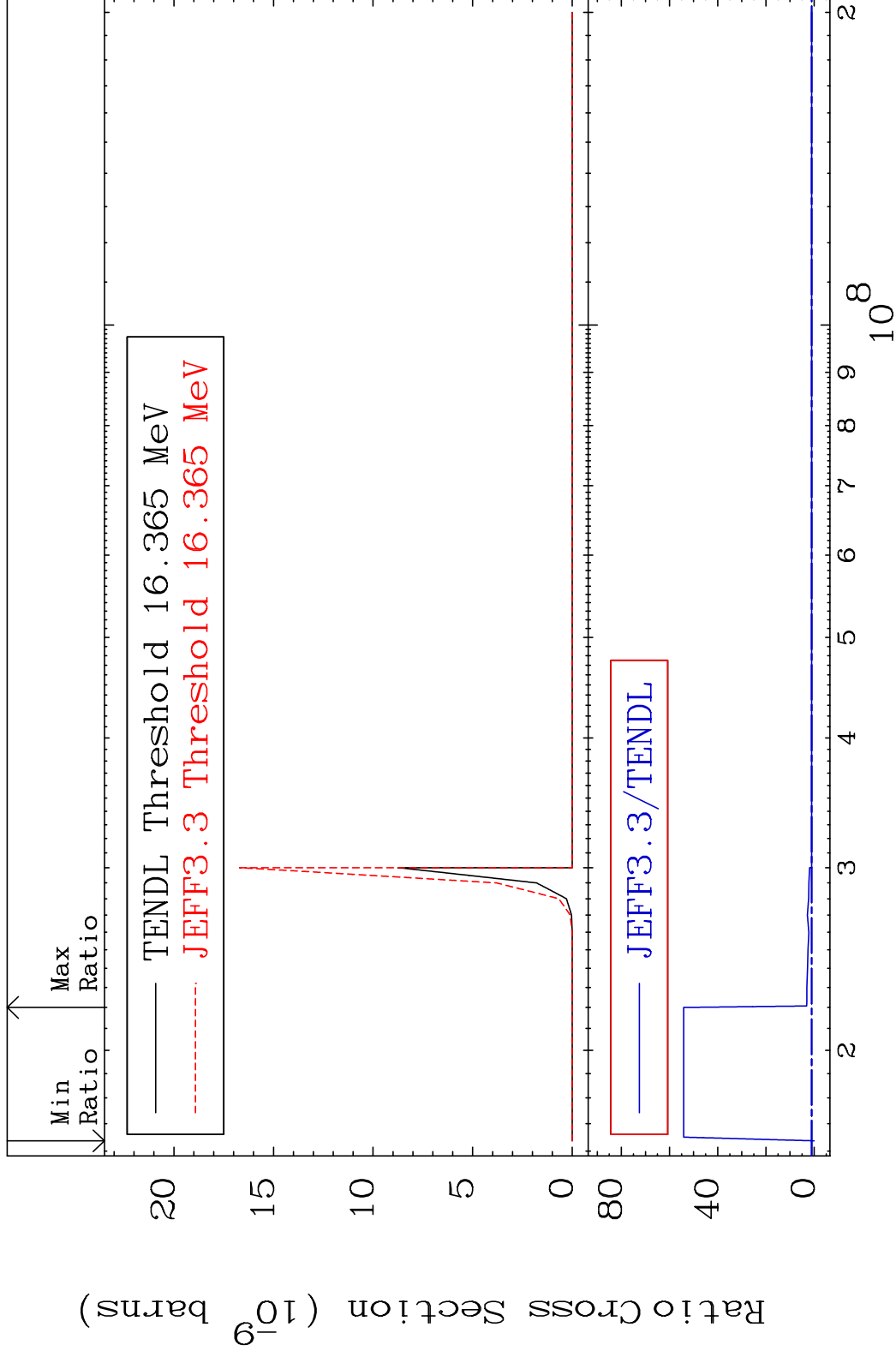


MAT 6649

(n,2n) p

66-Dy-164

Cross Section -100.0 To 5313. %



18

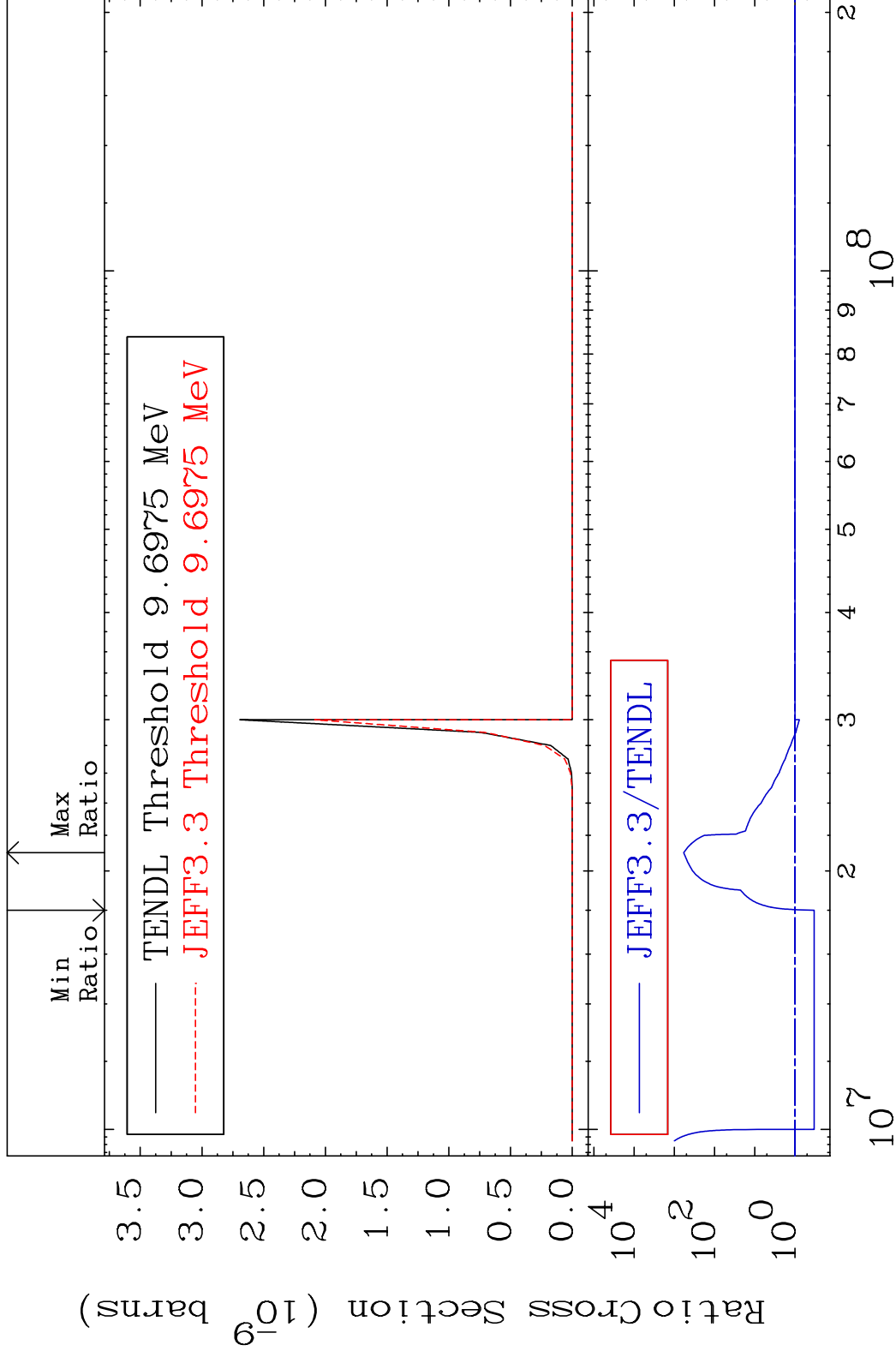
Incident Energy (eV)

66-Dy-164

MAT 6649

(n,n') p α 66-Dy-164

Cross Section -66.64 To 9999. %

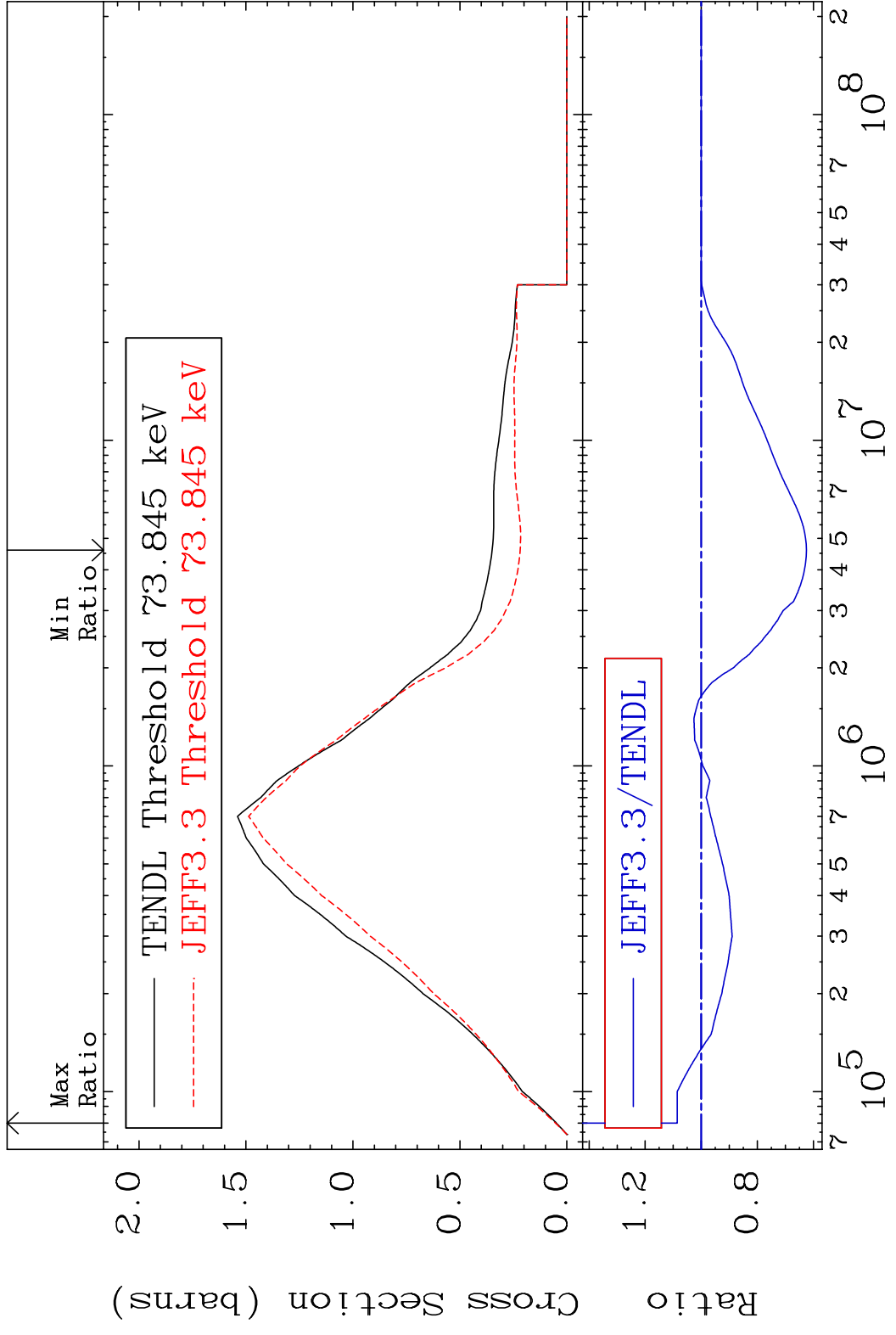


19

Incident Energy (eV)

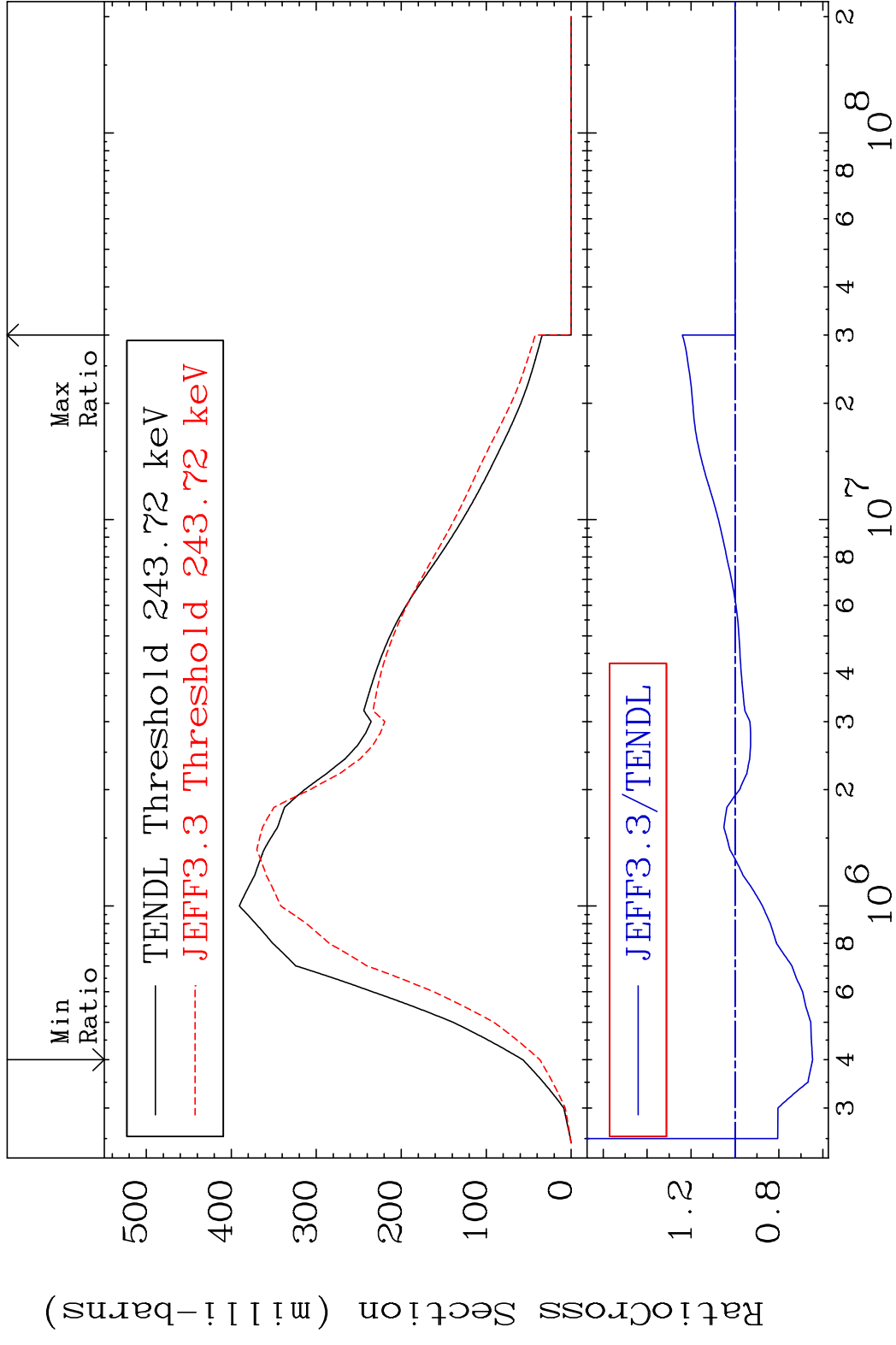
66-Dy-164

MAT 6649 MT= 51 (n, n') Level 66-Dy-164
 Cross Section -37.51 To 8.586 %

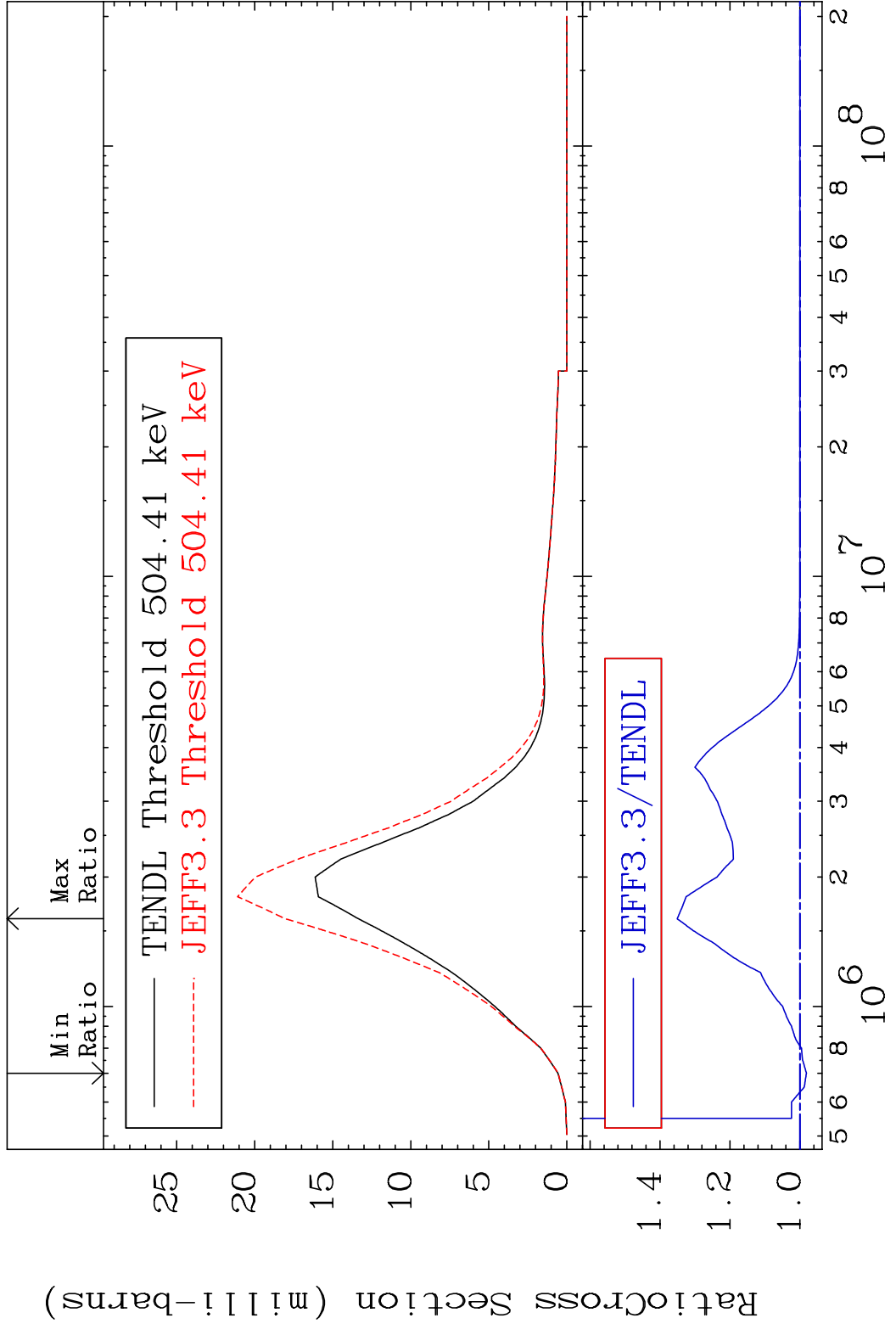


20 Incident Energy (eV) 66-Dy-164

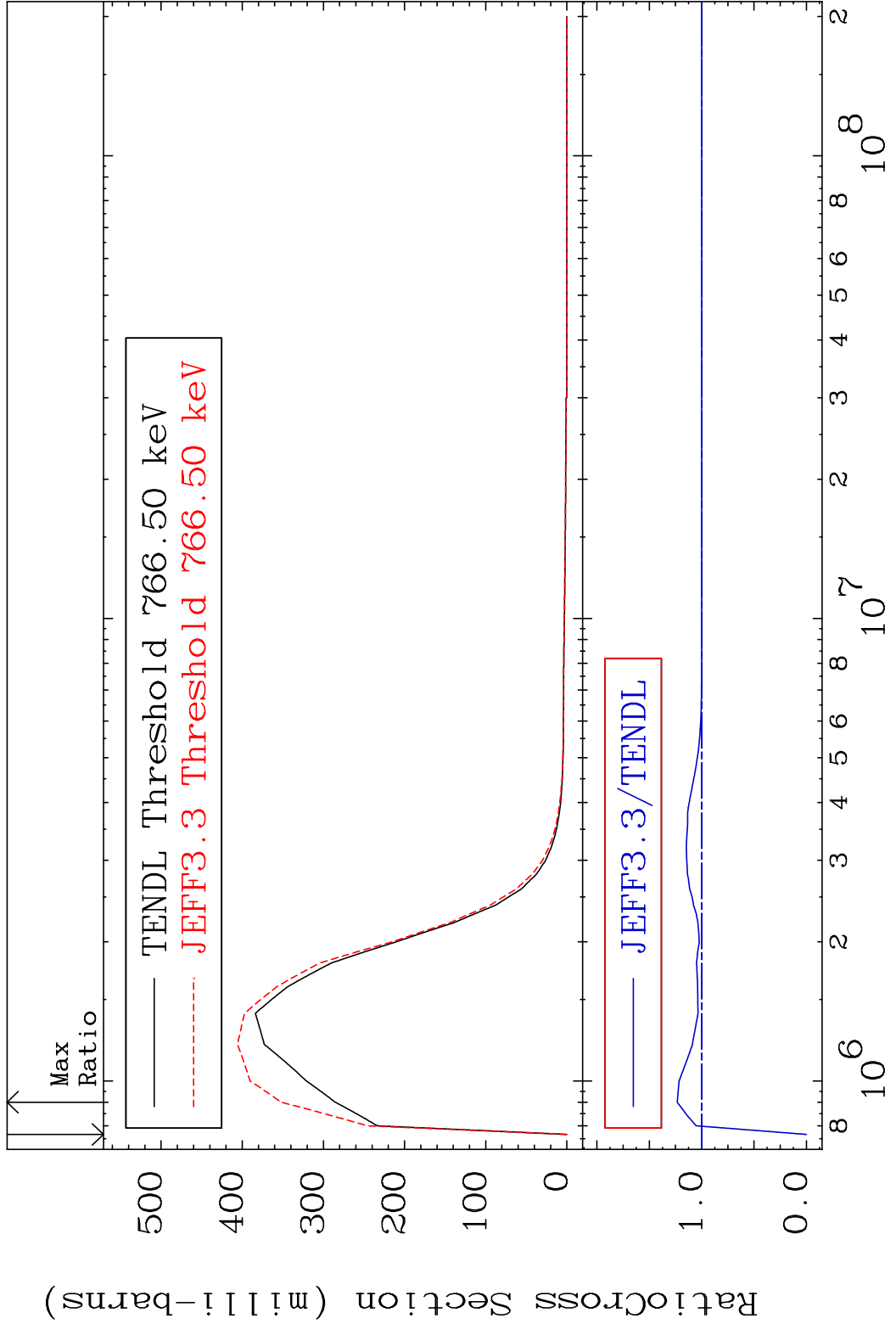
MAT 6649 MT= 52 (n, n') Level 66-Dy-164
 Cross Section -35.29 To 23.98 %



MAT 6649 MT= 53 (n, n') Level 66-Dy-164
 Cross Section -1.852 To 35.08 %



MAT 6649 MT= 54 (n,n') Level 66-Dy-164
 Cross Section -100.0 To 23.40 %



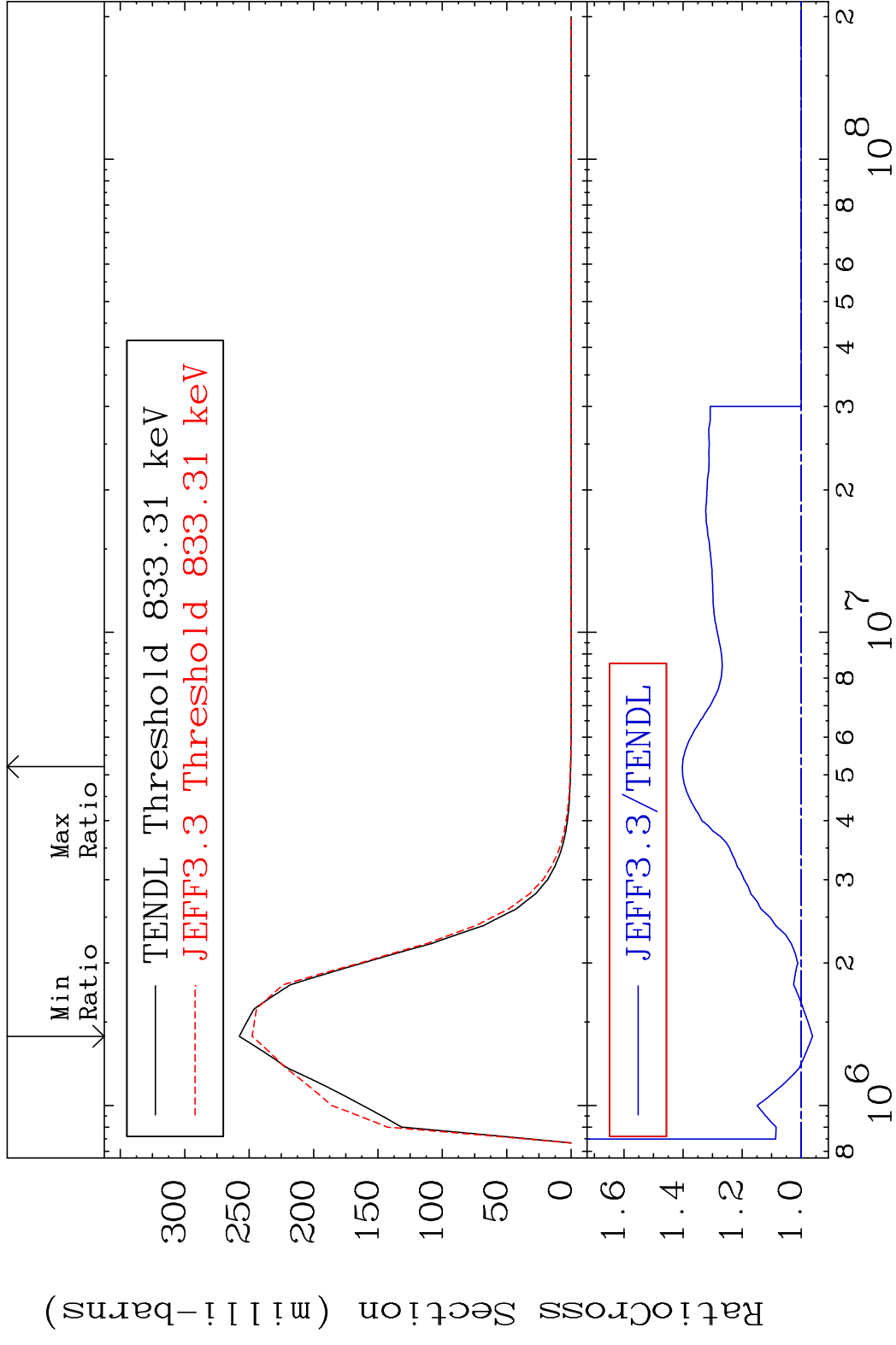
23 Incident Energy (eV) 66-Dy-164

MAT 6649

MT= 55 (n, n') Level

66-Dy-164

Cross Section -3.862 To 40.23 %

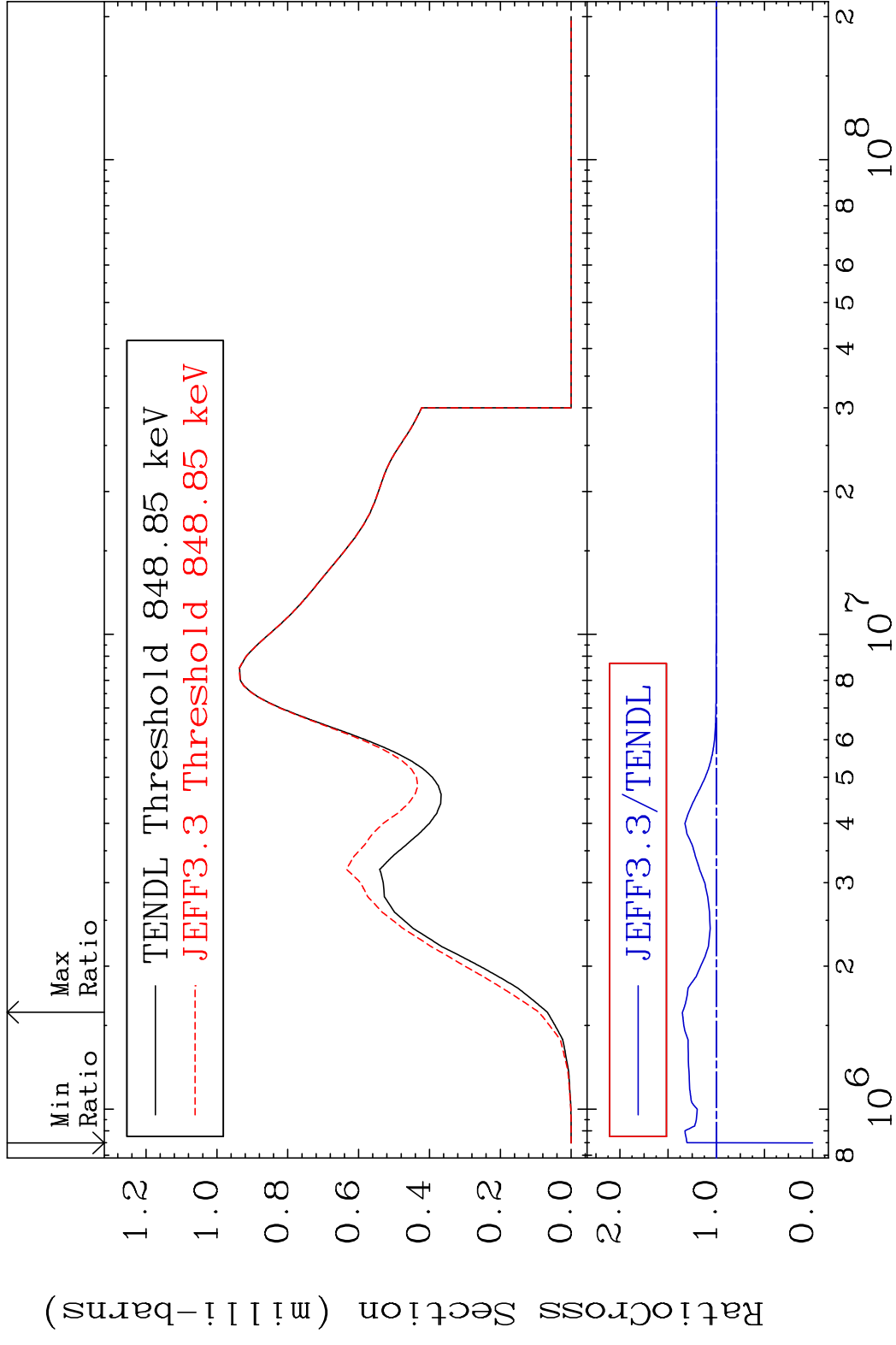


24

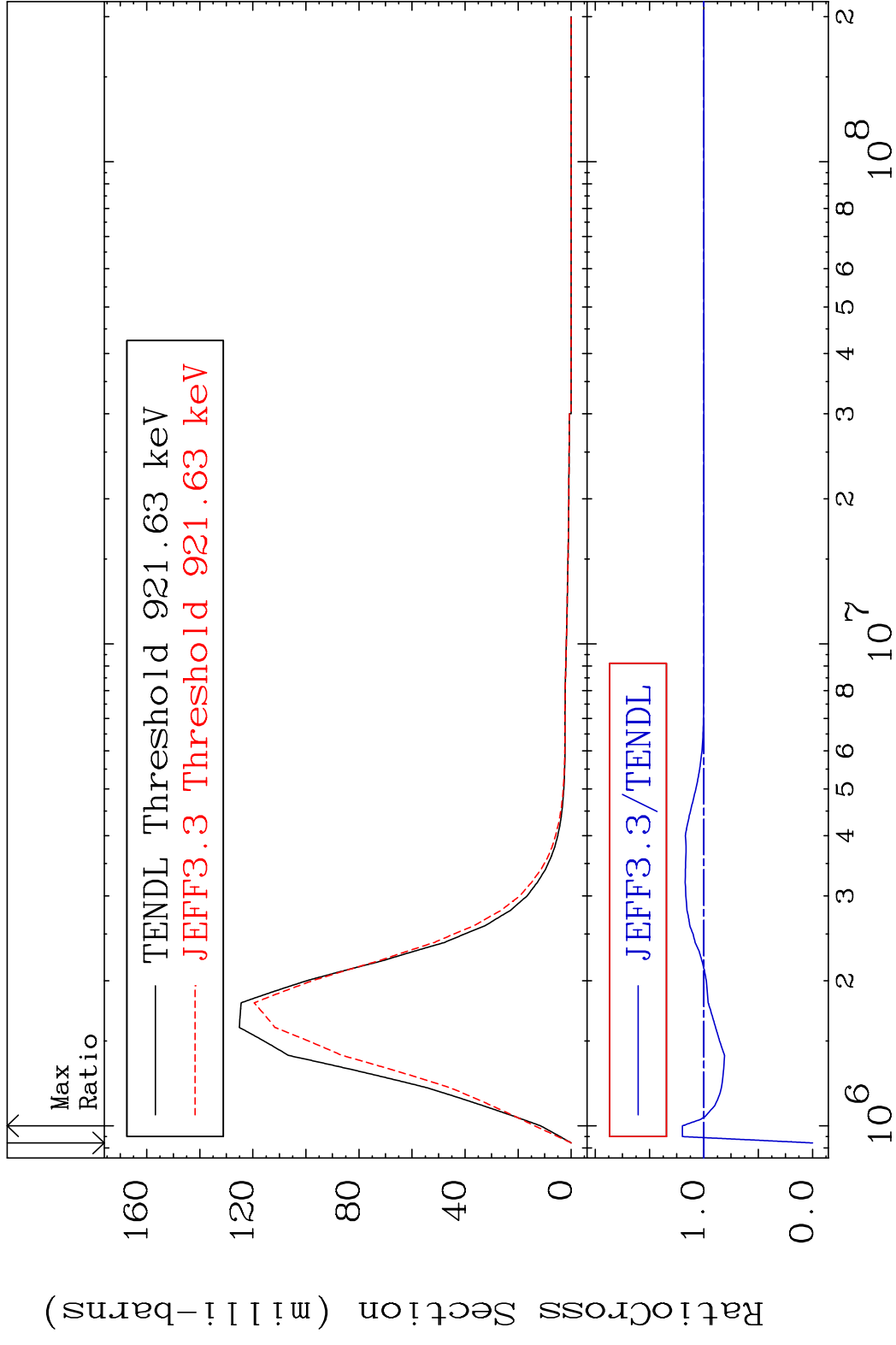
Incident Energy (eV)

66-Dy-164

MAT 6649 MT= 56 (n,n') Level 66-Dy-164
 Cross Section -100.0 To 35.23 %



MAT 6649 MT= 57 (n, n') Level 66-Dy-164
 Cross Section -100.0 To 19.82 %



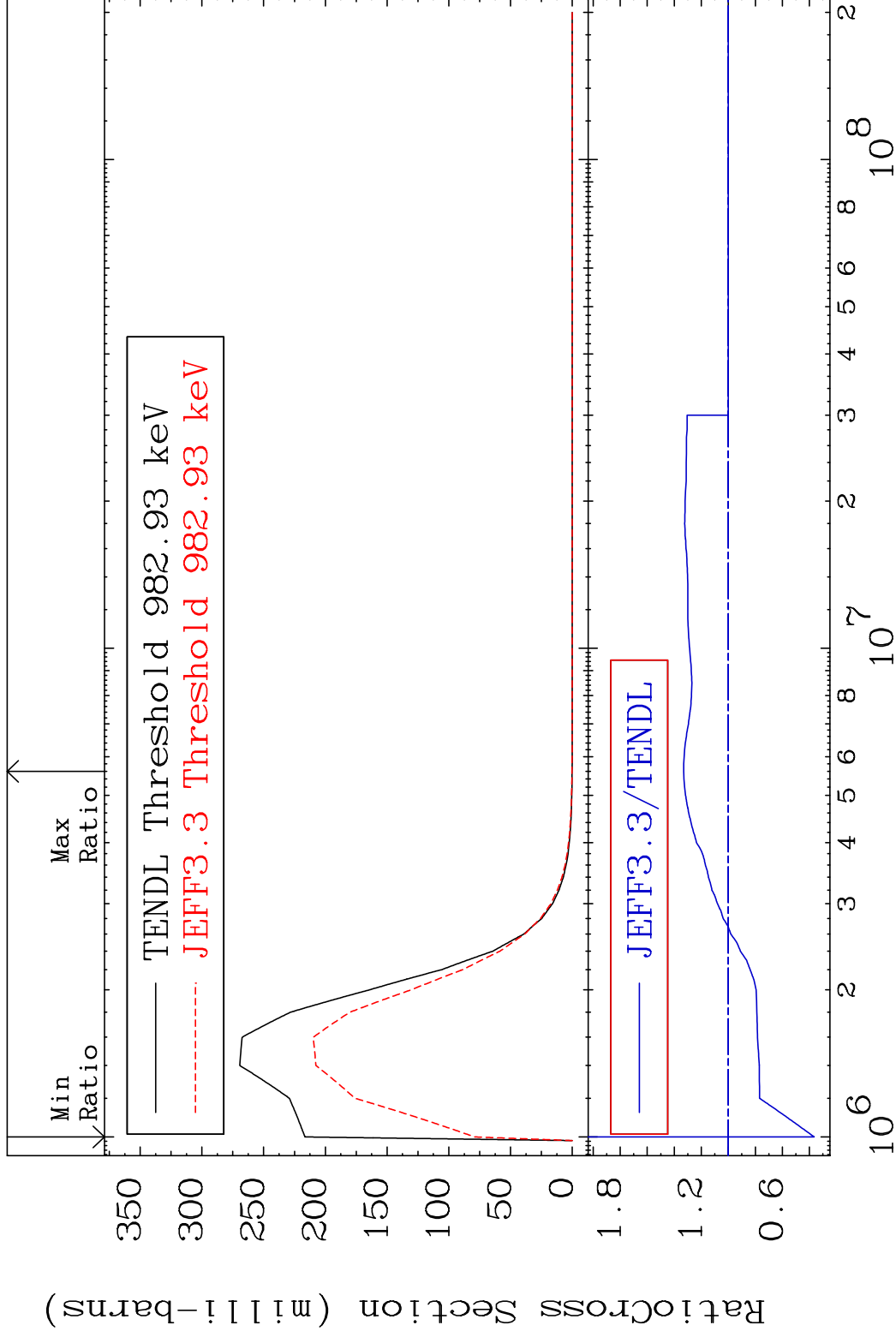
26 Incident Energy (eV) 66-Dy-164

MAT 6649

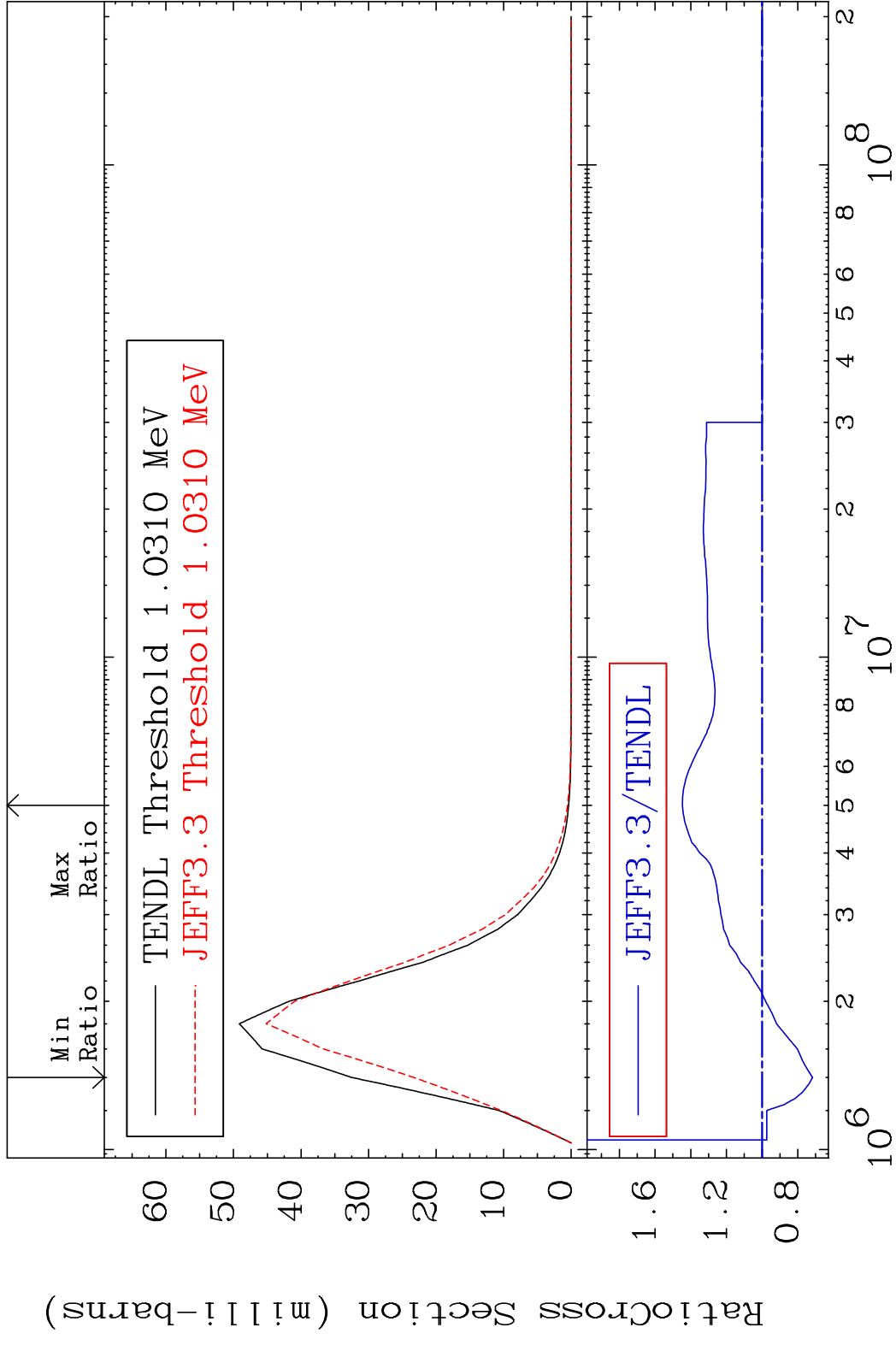
MT= 58 (n, n') Level

66-Dy-164

Cross Section -63.49 To 33.04 %

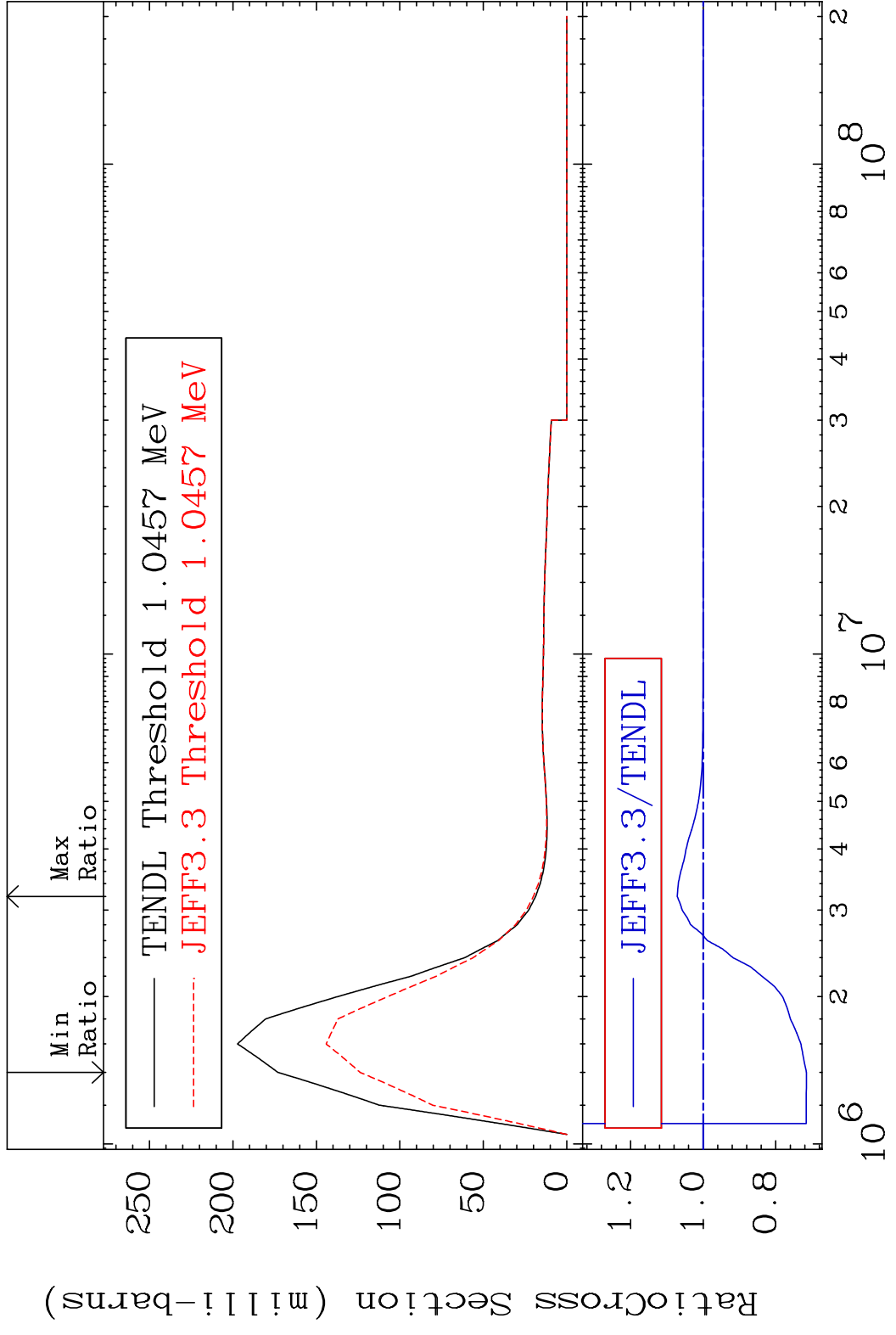


MAT 6649 MT= 59 (n, n') Level 66-Dy-164
 Cross Section -28.28 To 44.70 %



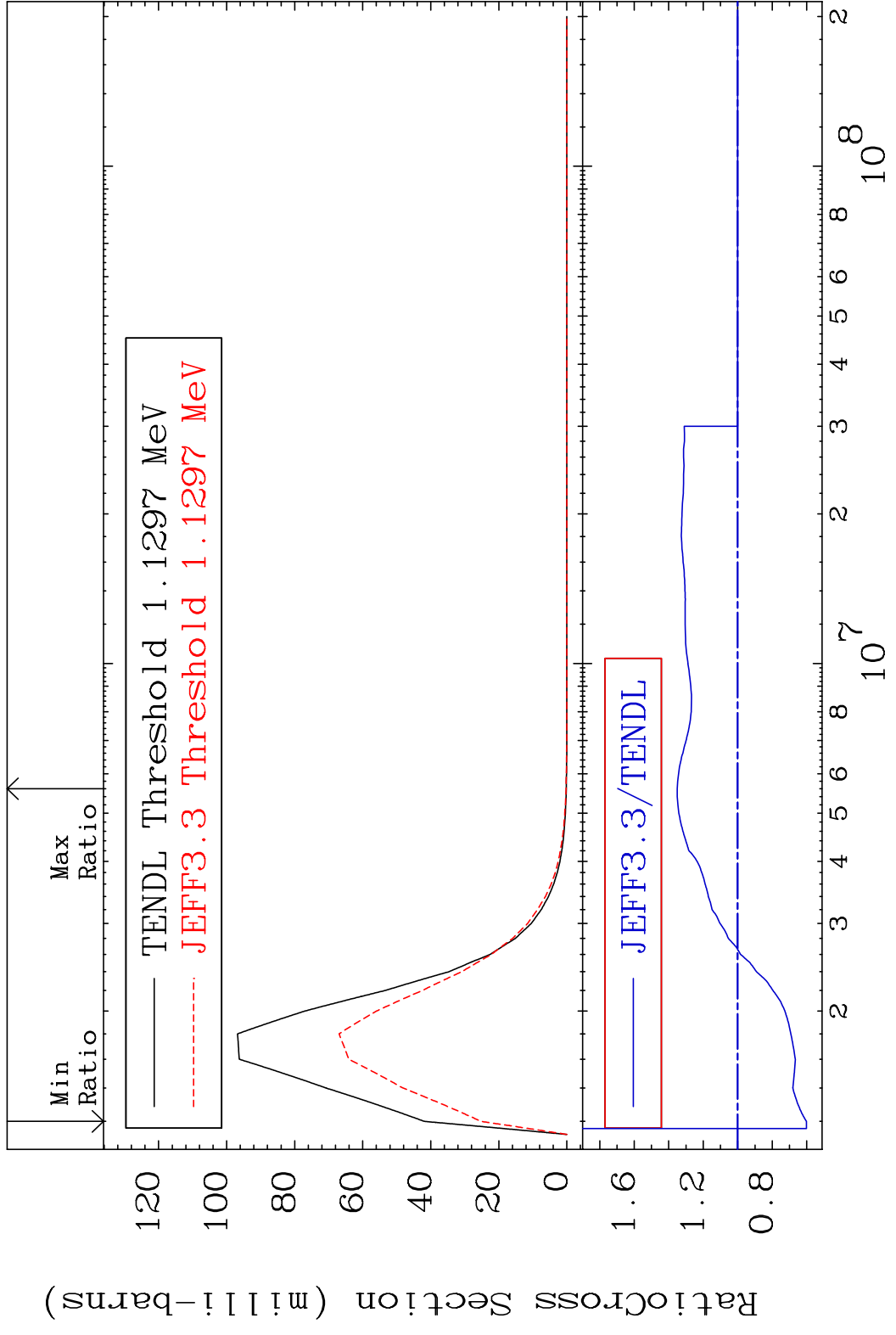
28 Incident Energy (eV) 66-Dy-164

MAT 6649 MT= 60 (n, n') Level 66-Dy-164
 Cross Section -28.43 To 7.157 %

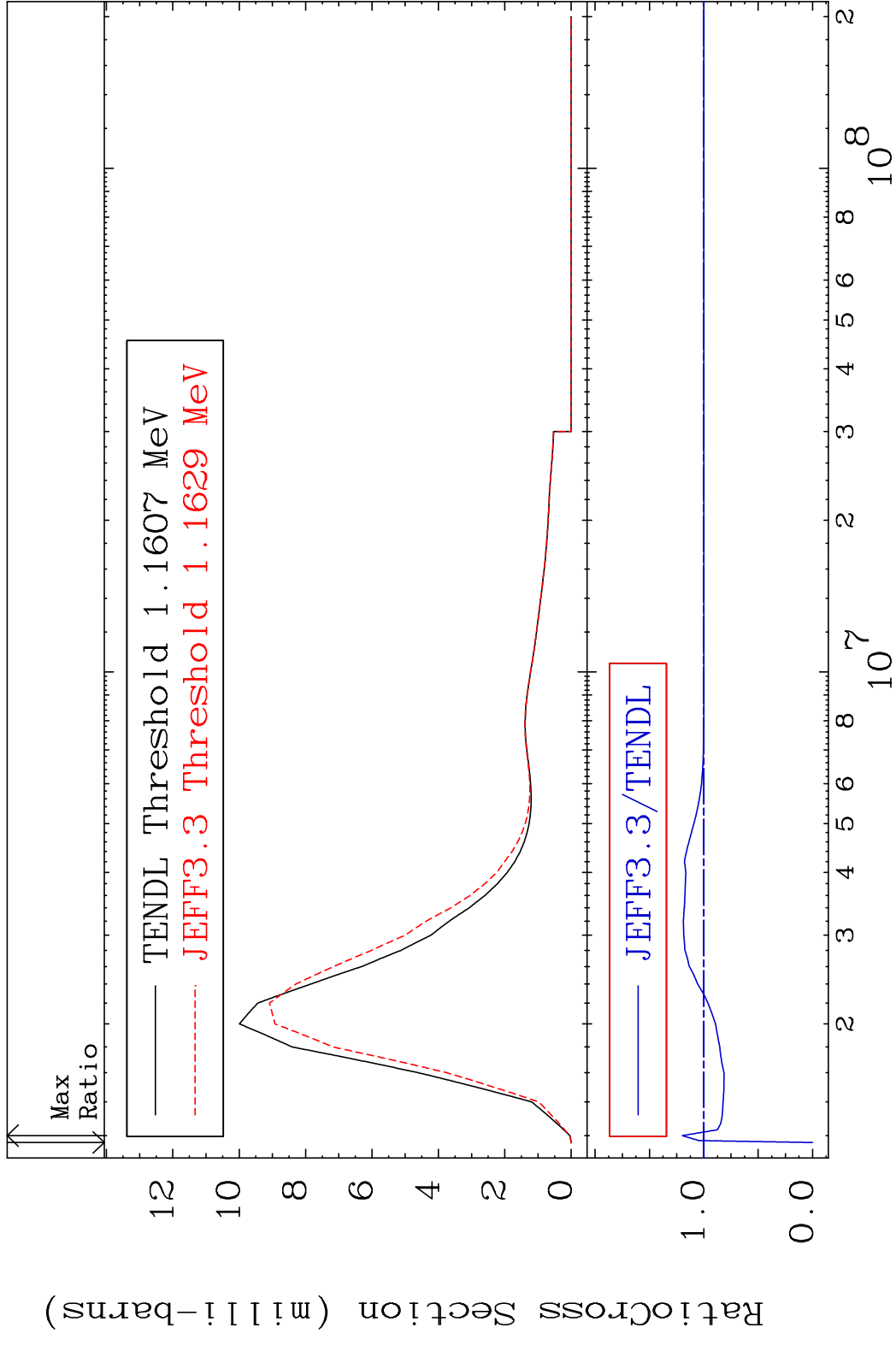


29 Incident Energy (eV) 66-Dy-164

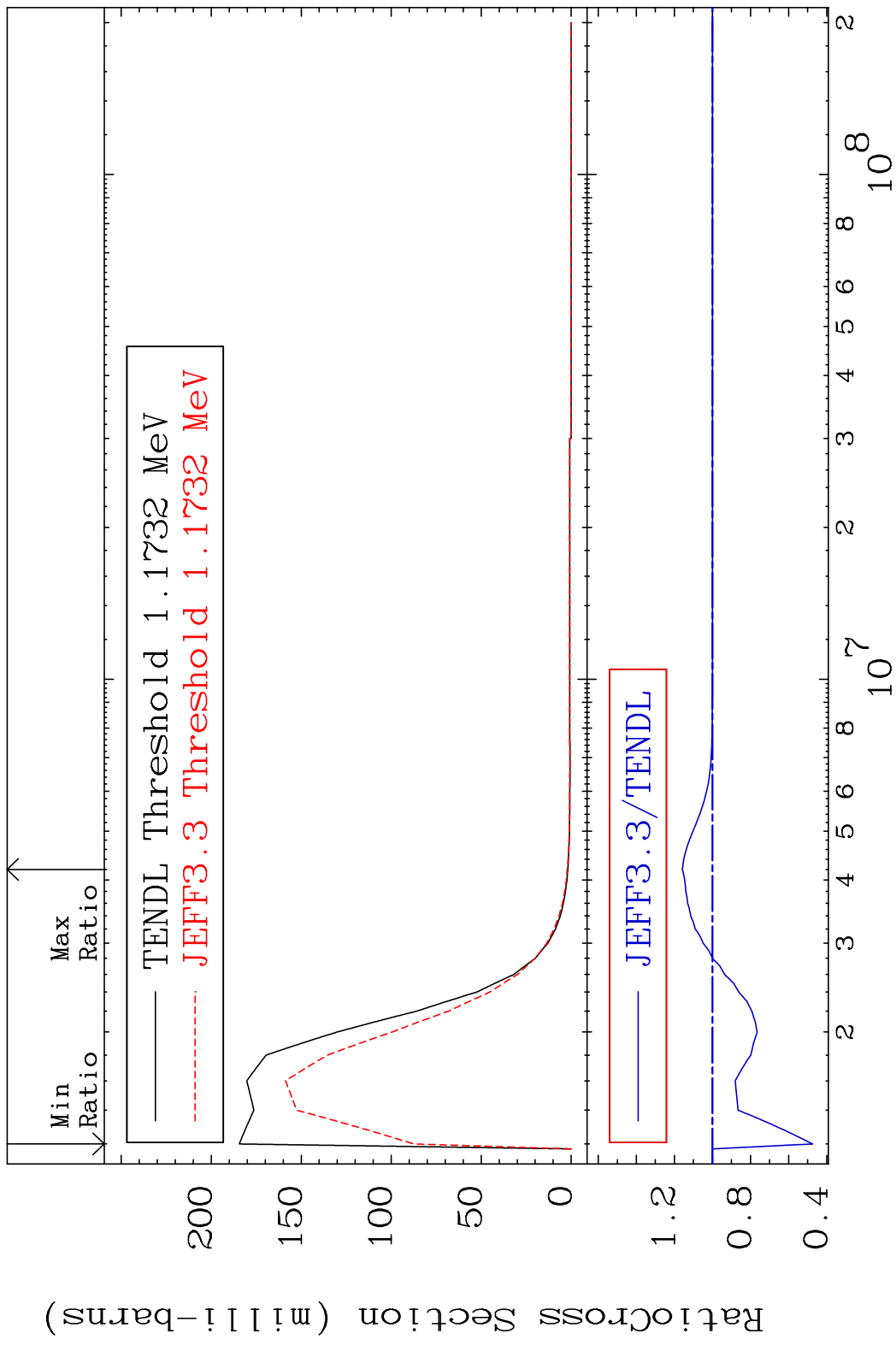
MAT 6649 MT= 61 (n, n') Level 66-Dy-164
 Cross Section -39.79 To 35.10 %



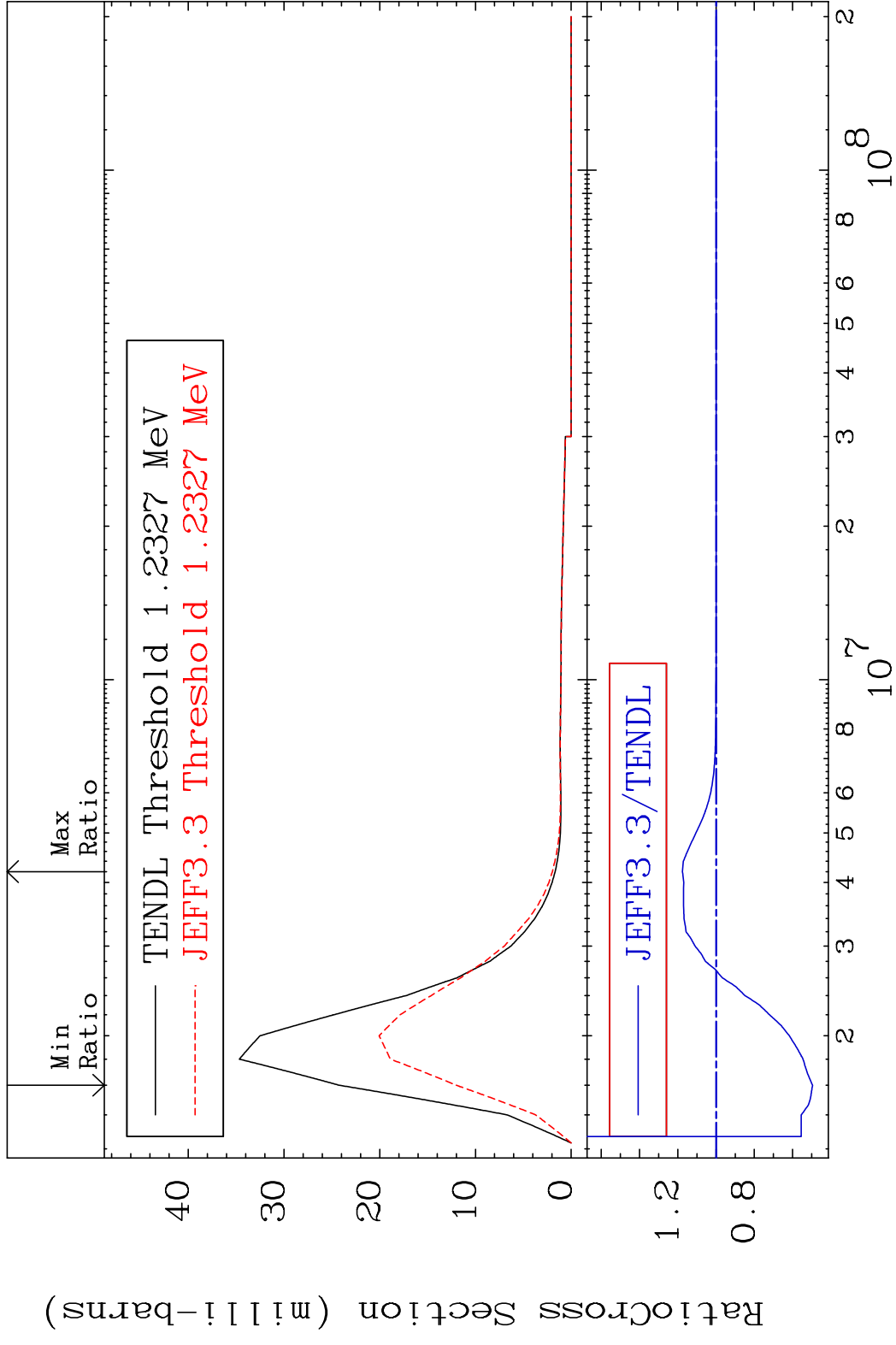
MAT 6649 MT= 62 (n, n') Level 66-Dy-164
 Cross Section -100.0 To 19.77 %



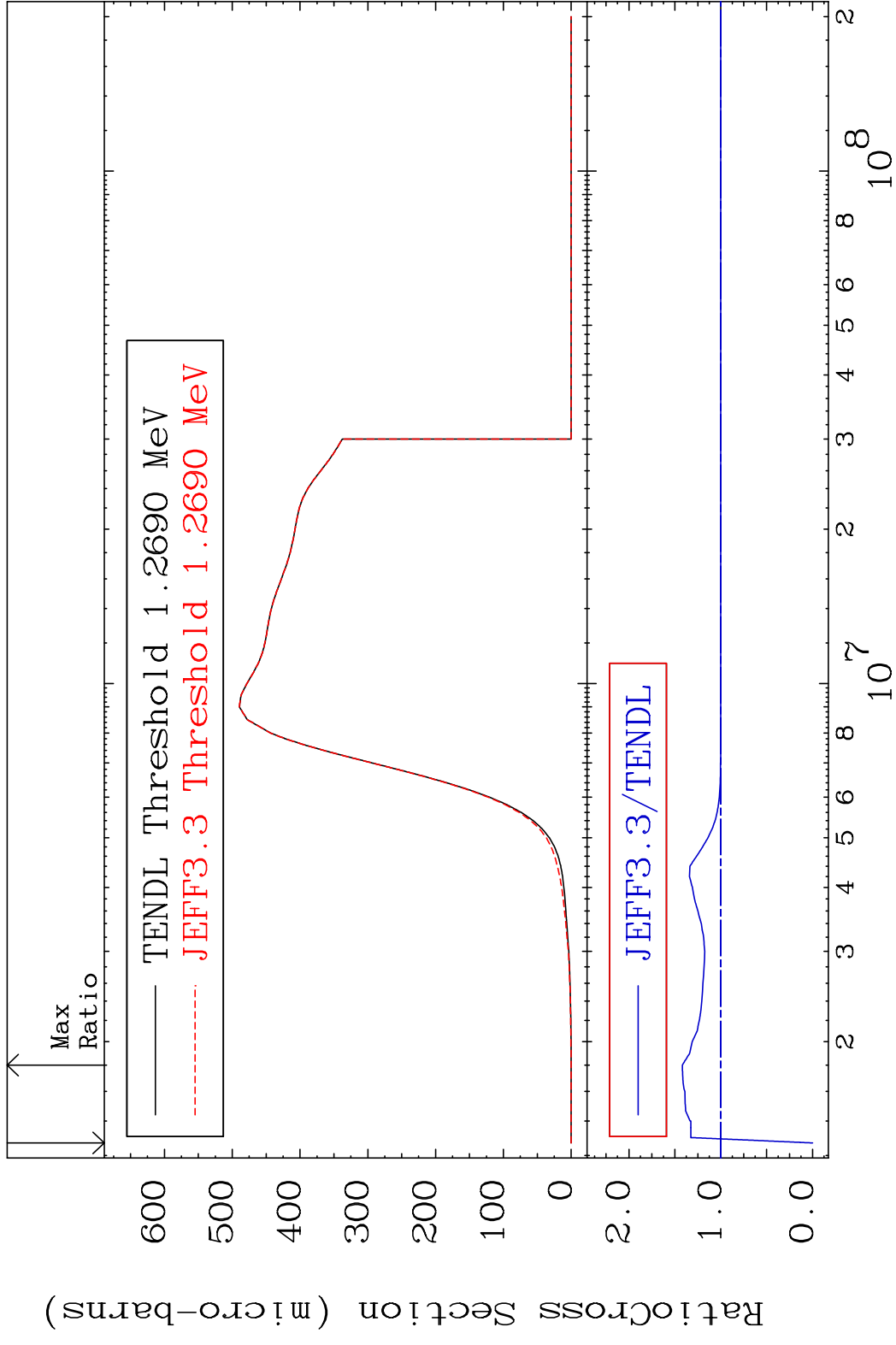
MAT 6649 MT= 63 (n, n') Level 66-Dy-164
 Cross Section -52.60 To 15.81 %



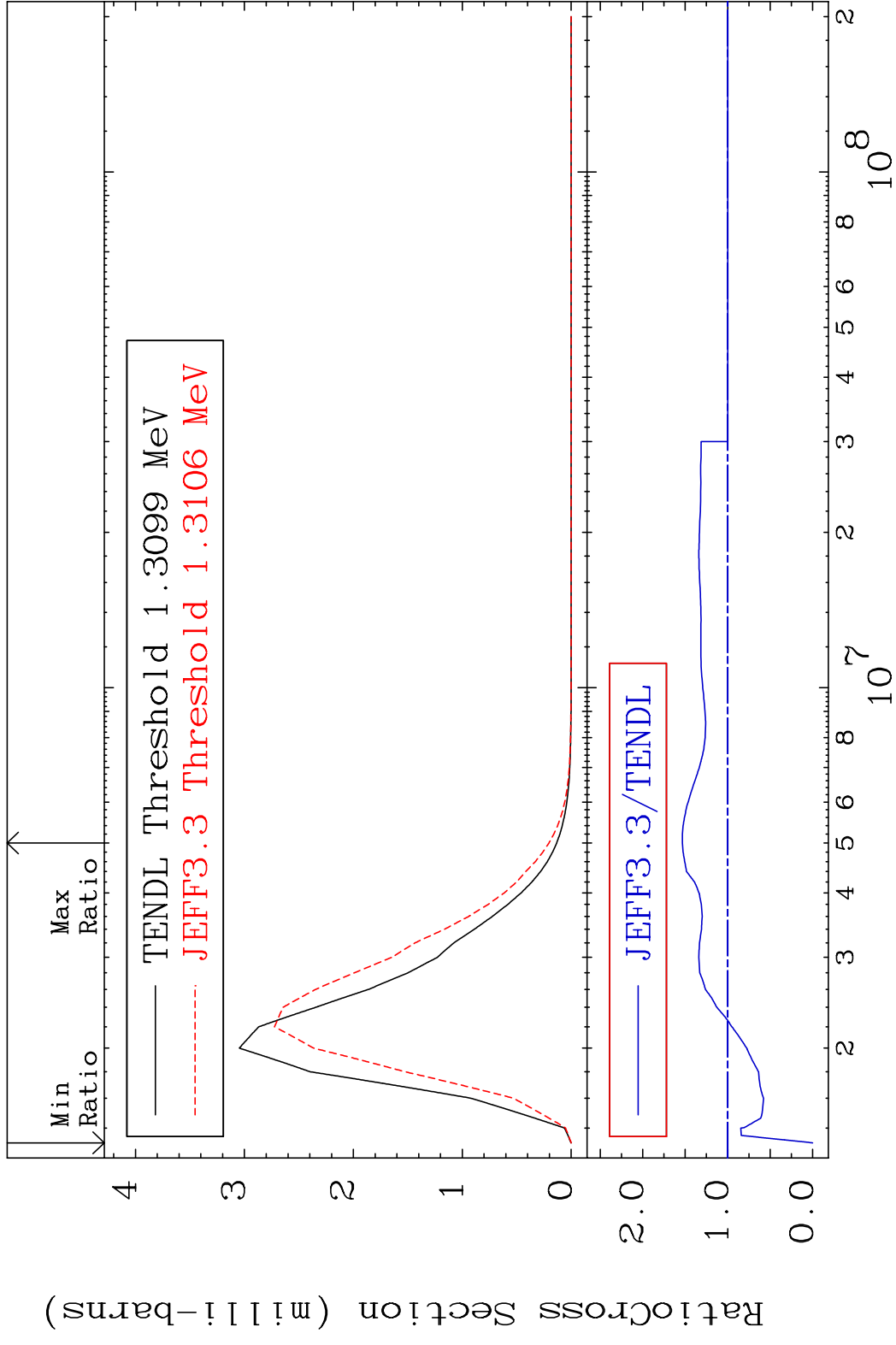
MAT 6649 MT= 64 (n,n') Level 66-Dy-164
 Cross Section -50.43 To 17.62 %



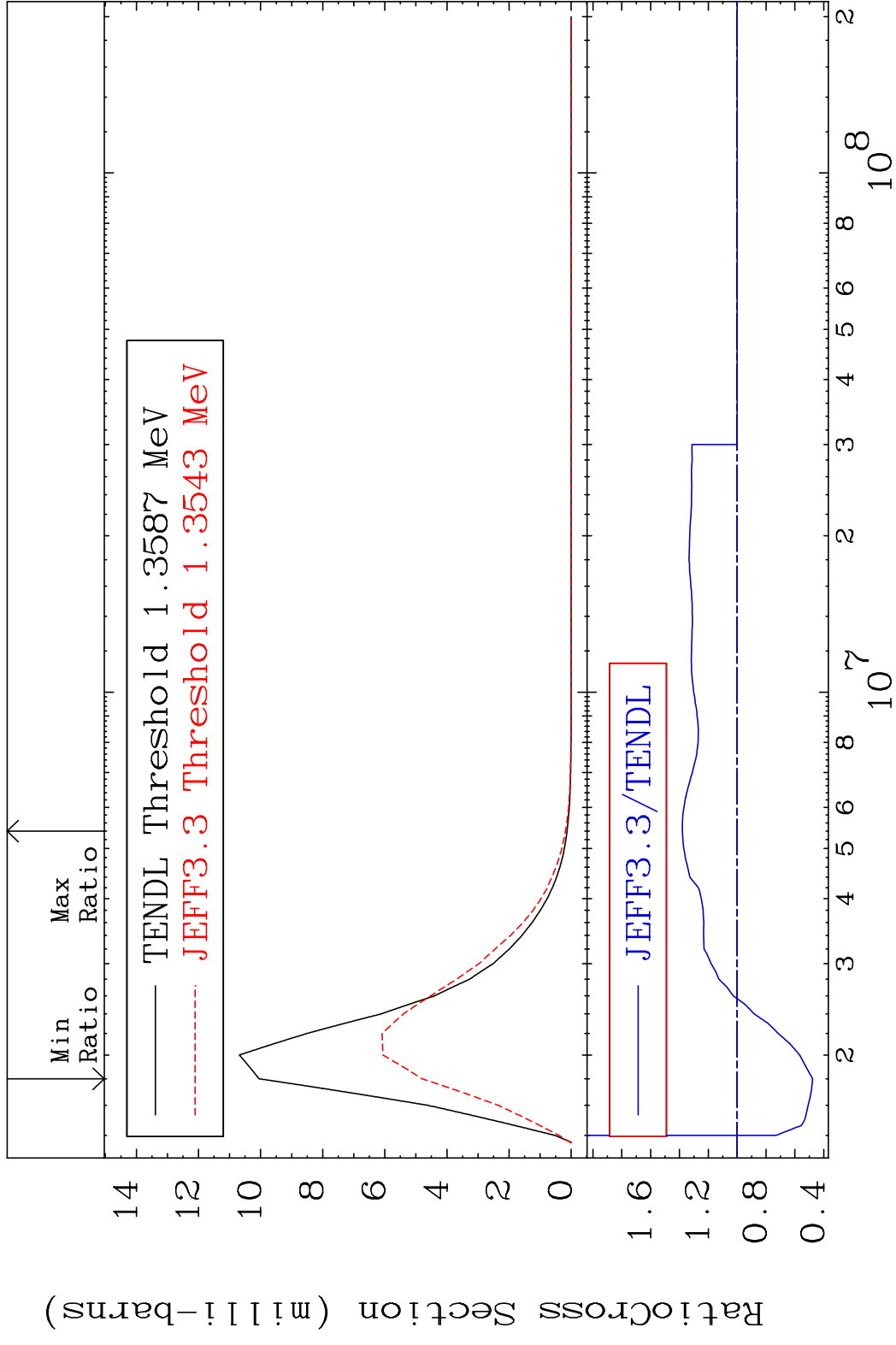
MAT 6649 MT= 65 (n, n') Level 66-Dy-164
 Cross Section -100.0 To 41.82 %



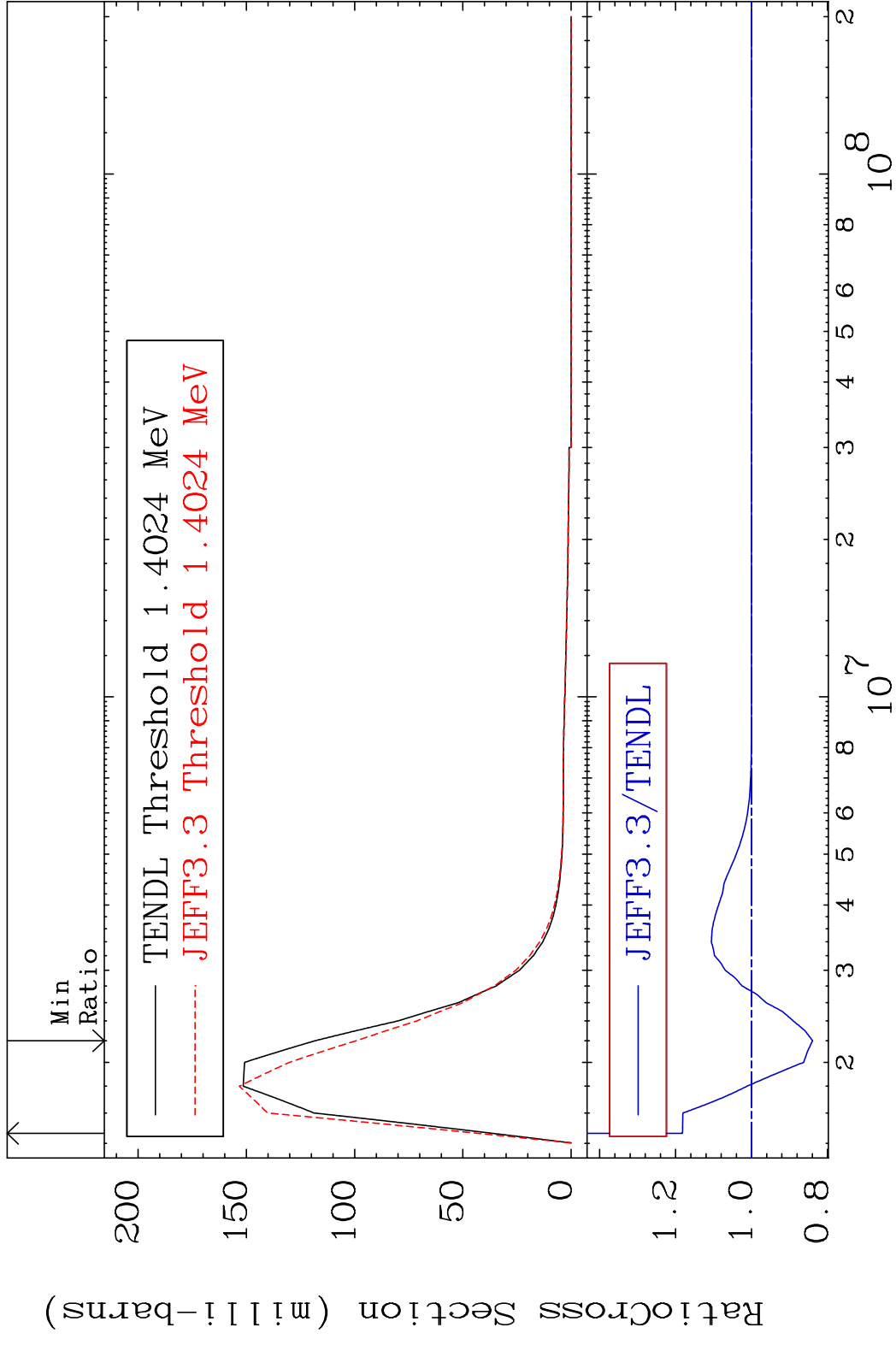
MAT 6649 MT= 66 (n, n') Level 66-Dy-164
 Cross Section -100.0 To 53.37 %



MAT 6649 MT= 67 (n, n') Level 66-Dy-164
 Cross Section -52.23 To 38.03 %



MAT 6649 MT= 68 (n, n') Level 66-Dy-164
 Cross Section -16.07 To 18.23 %

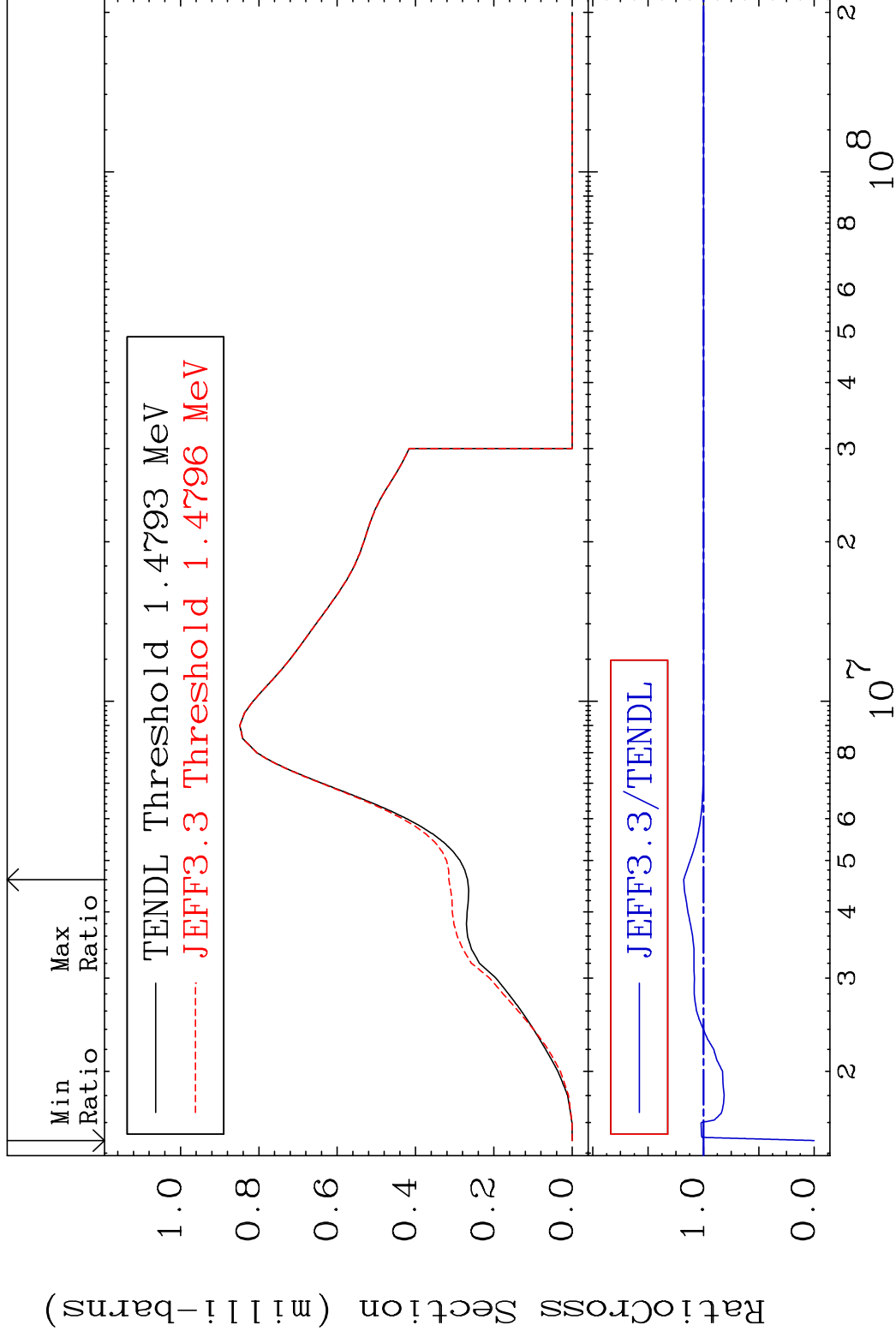


MAT 6649

MT= 69 (n, n') Level

66-Dy-164

Cross Section -100.0 To 17.91 %

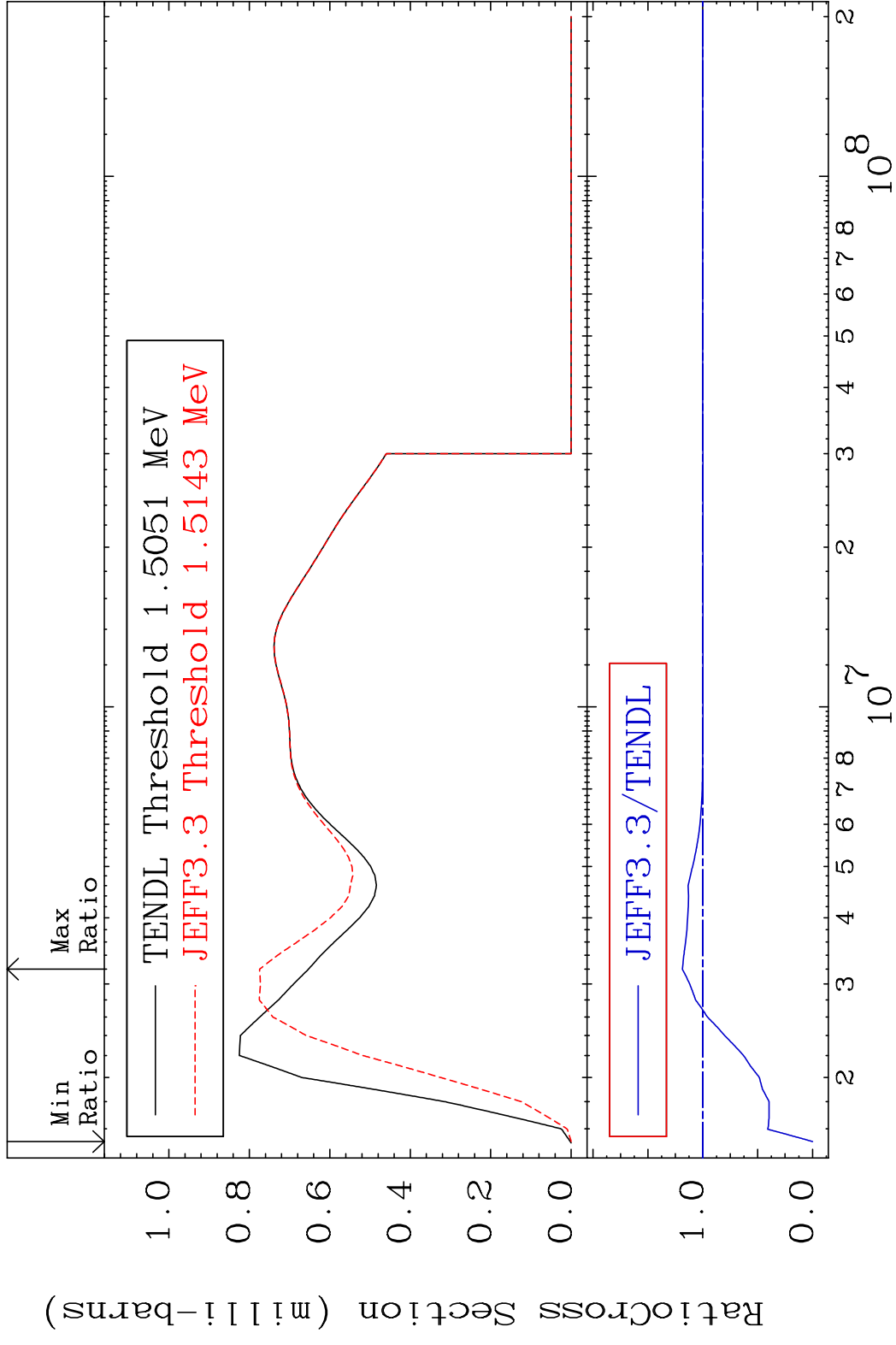


38

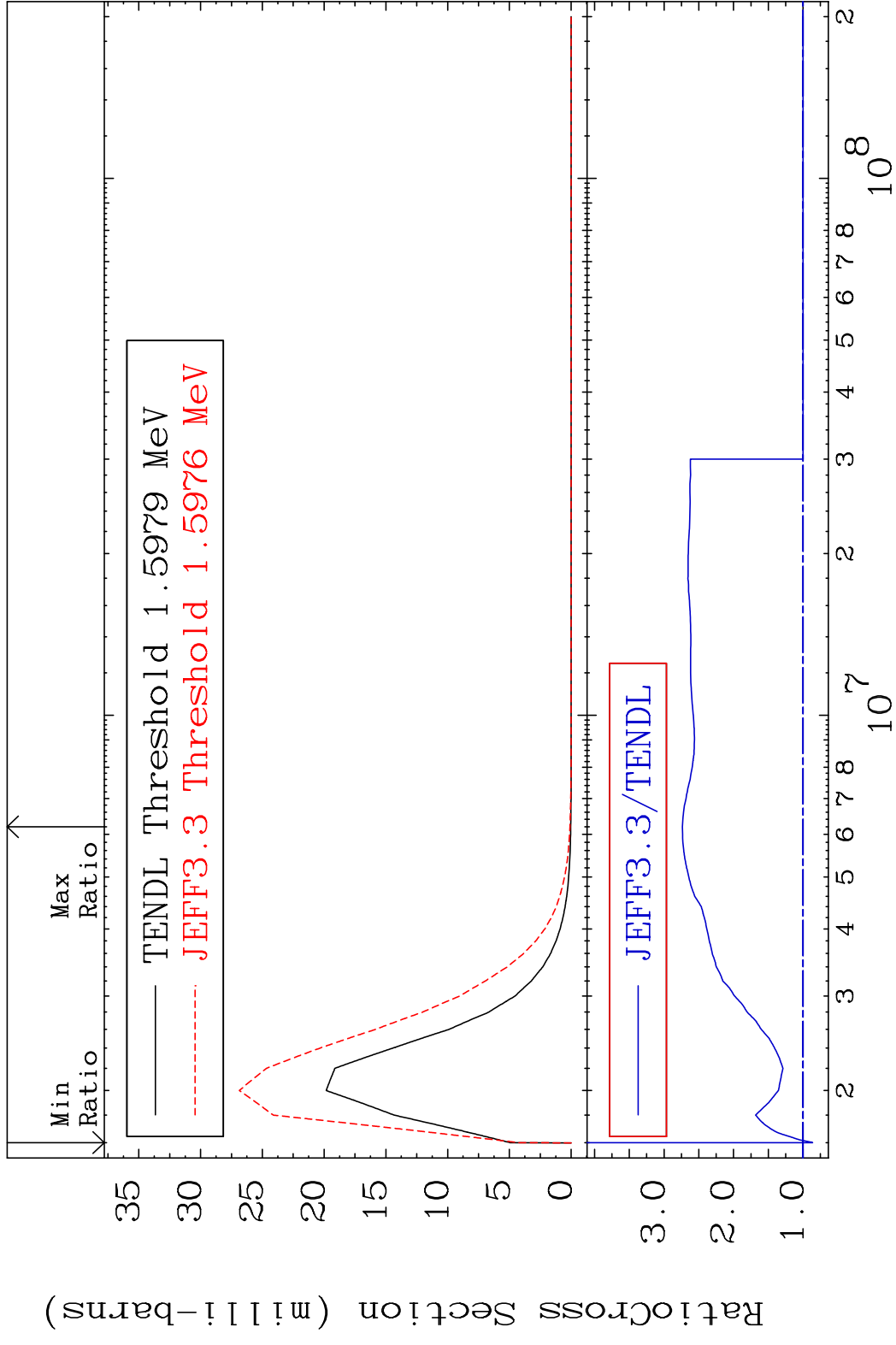
Incident Energy (eV)

66-Dy-164

MAT 6649 MT= 70 (n, n') Level 66-Dy-164
 Cross Section -100.0 To 18.63 %

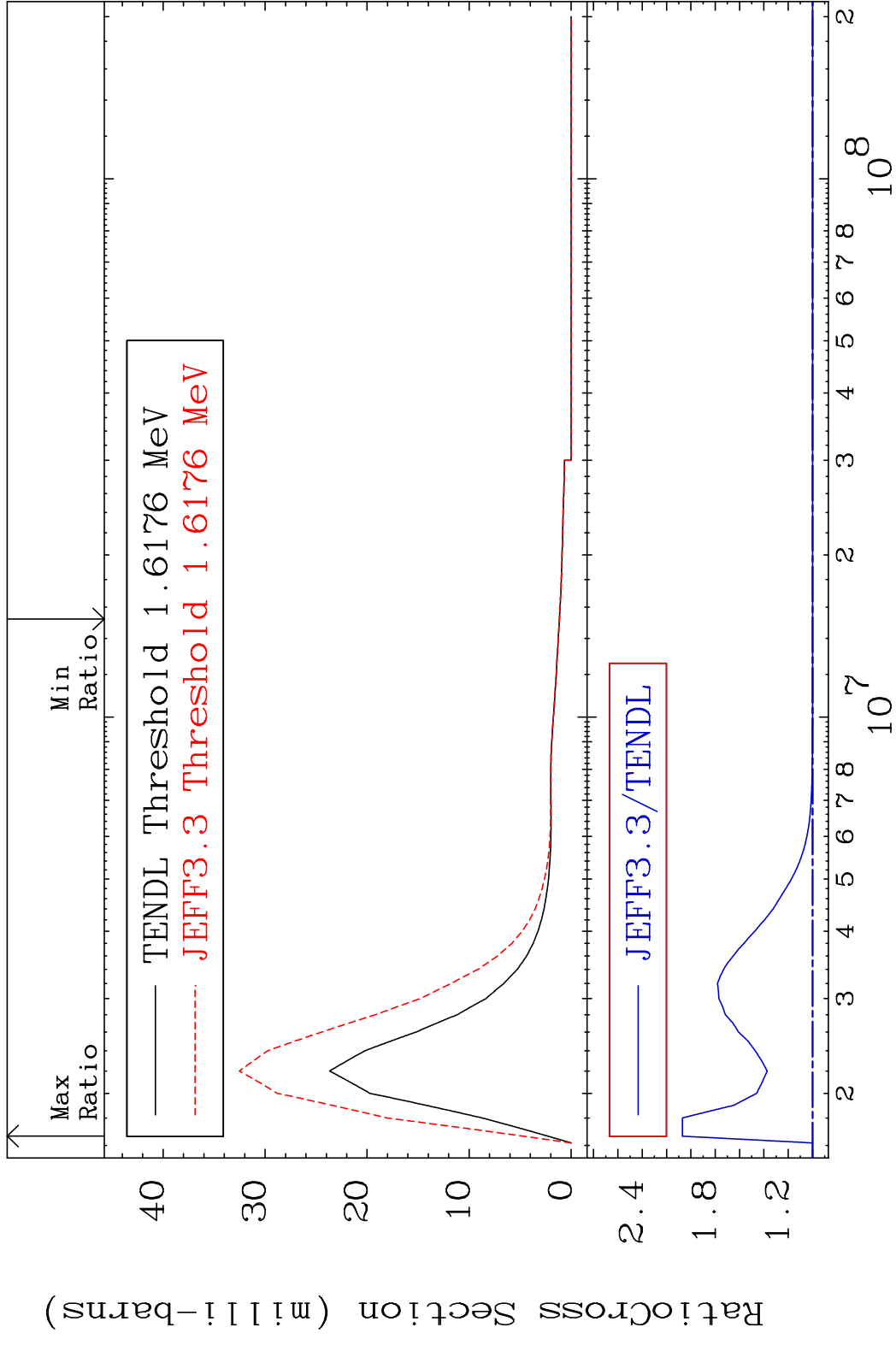


MAT 6649 MT= 71 (n, n') Level 66-Dy-164
 Cross Section -13.69 To 173.7 %

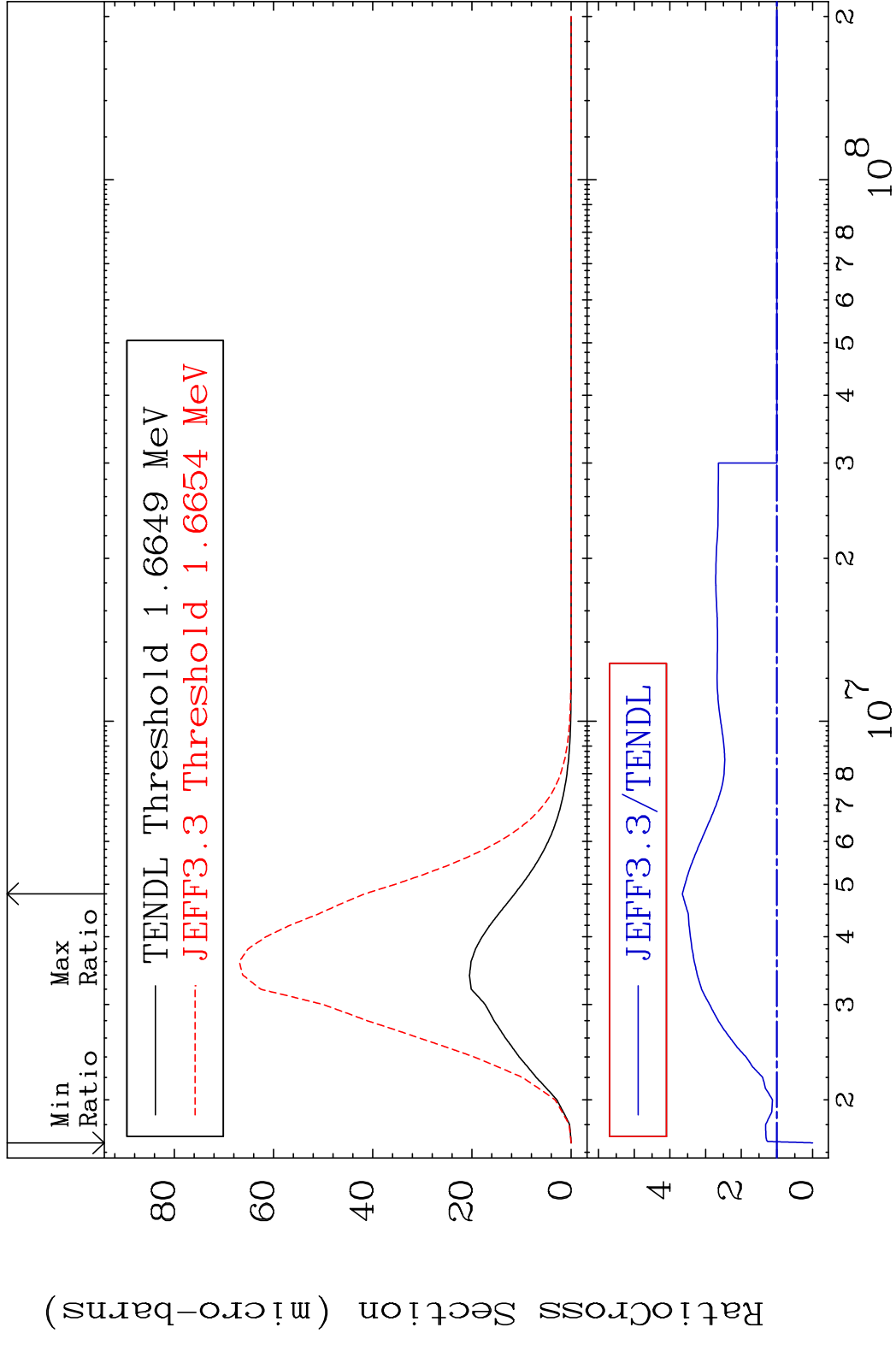


40 Incident Energy (eV) 66-Dy-164

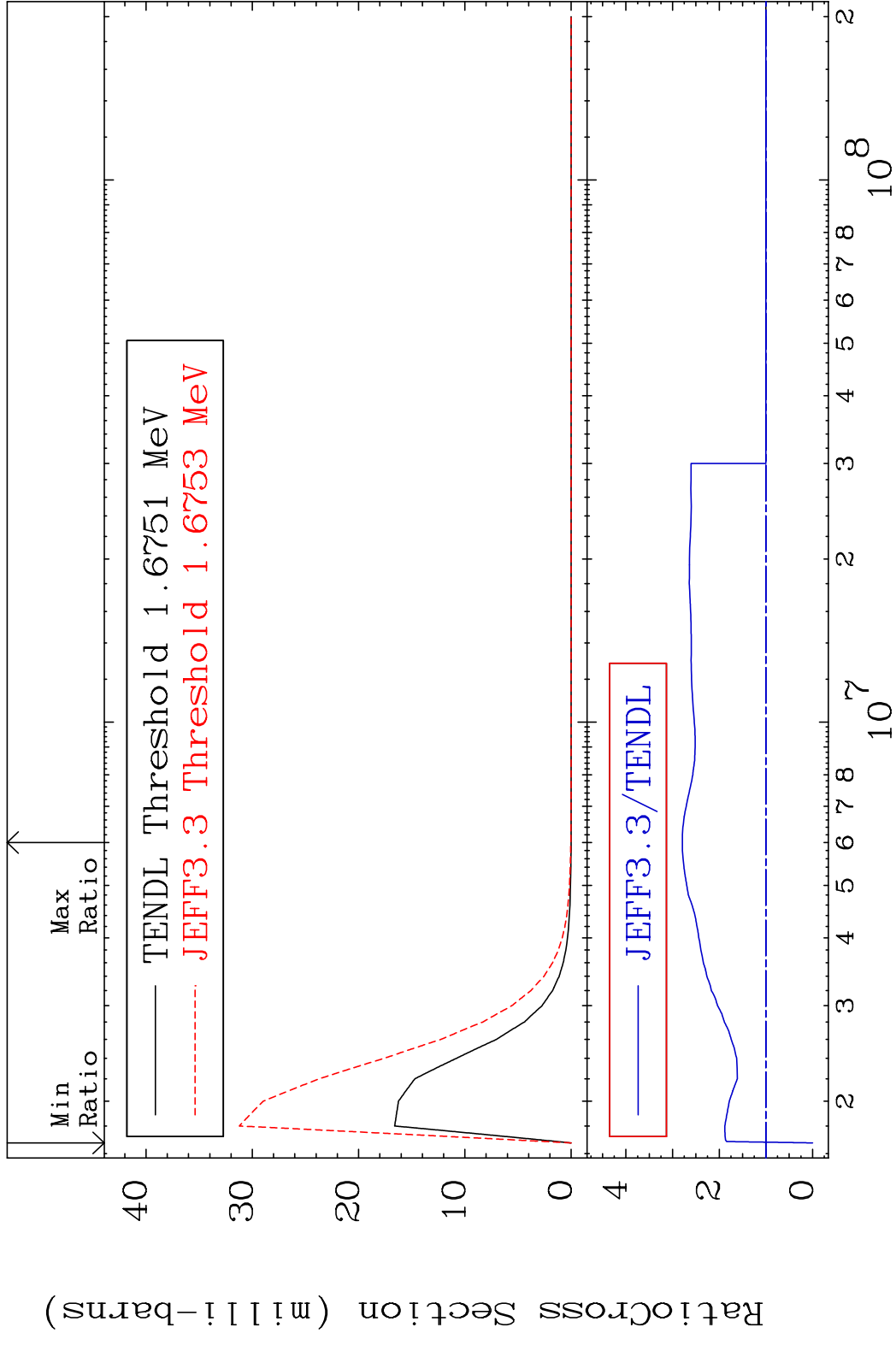
MAT 6649 MT= 72 (n,n') Level 66-Dy-164
 Cross Section 0.000 To 107.0 %



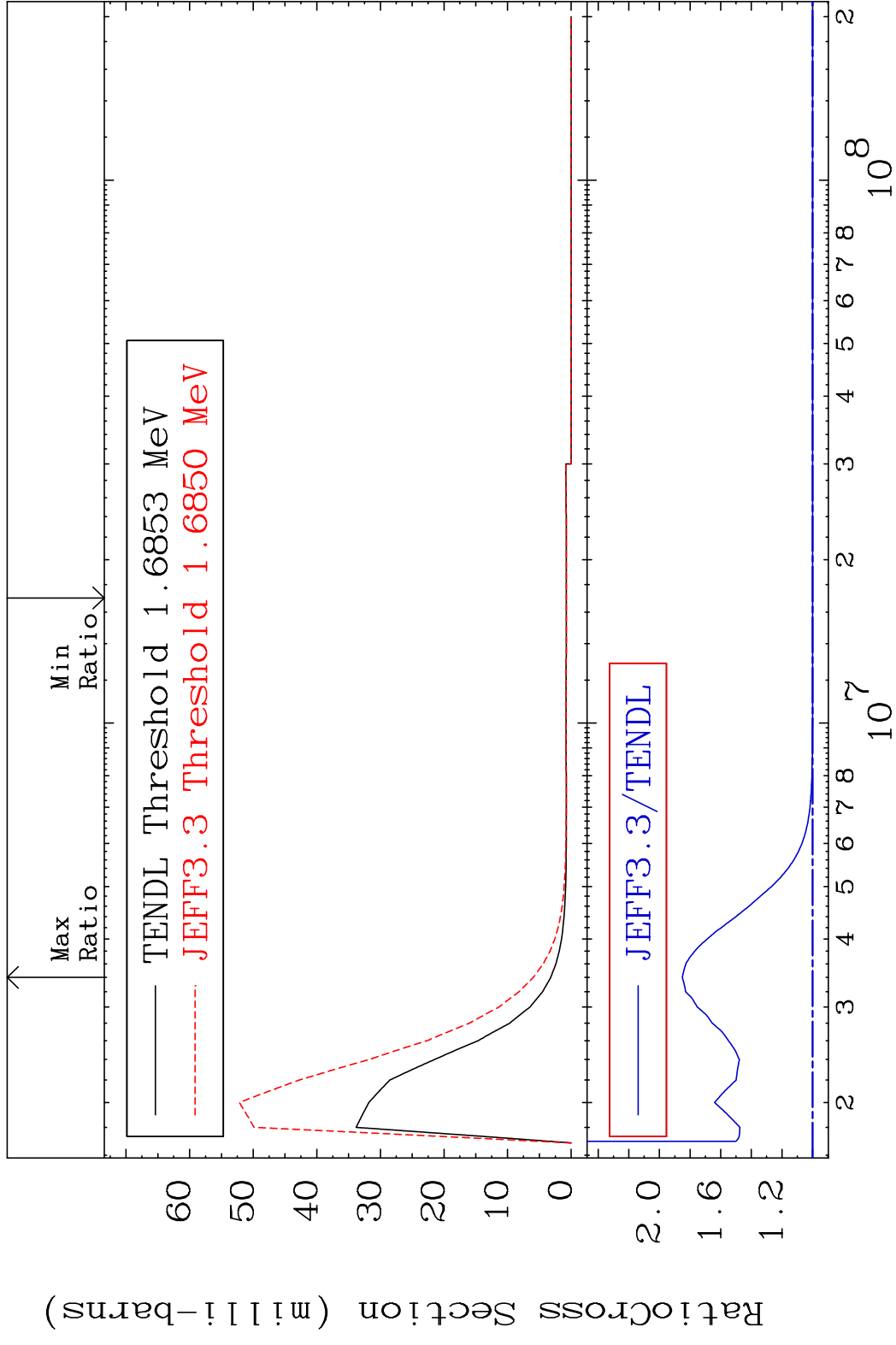
MAT 6649 MT= 73 (n, n') Level 66-Dy-164
 Cross Section -100.0 To 265.0 %



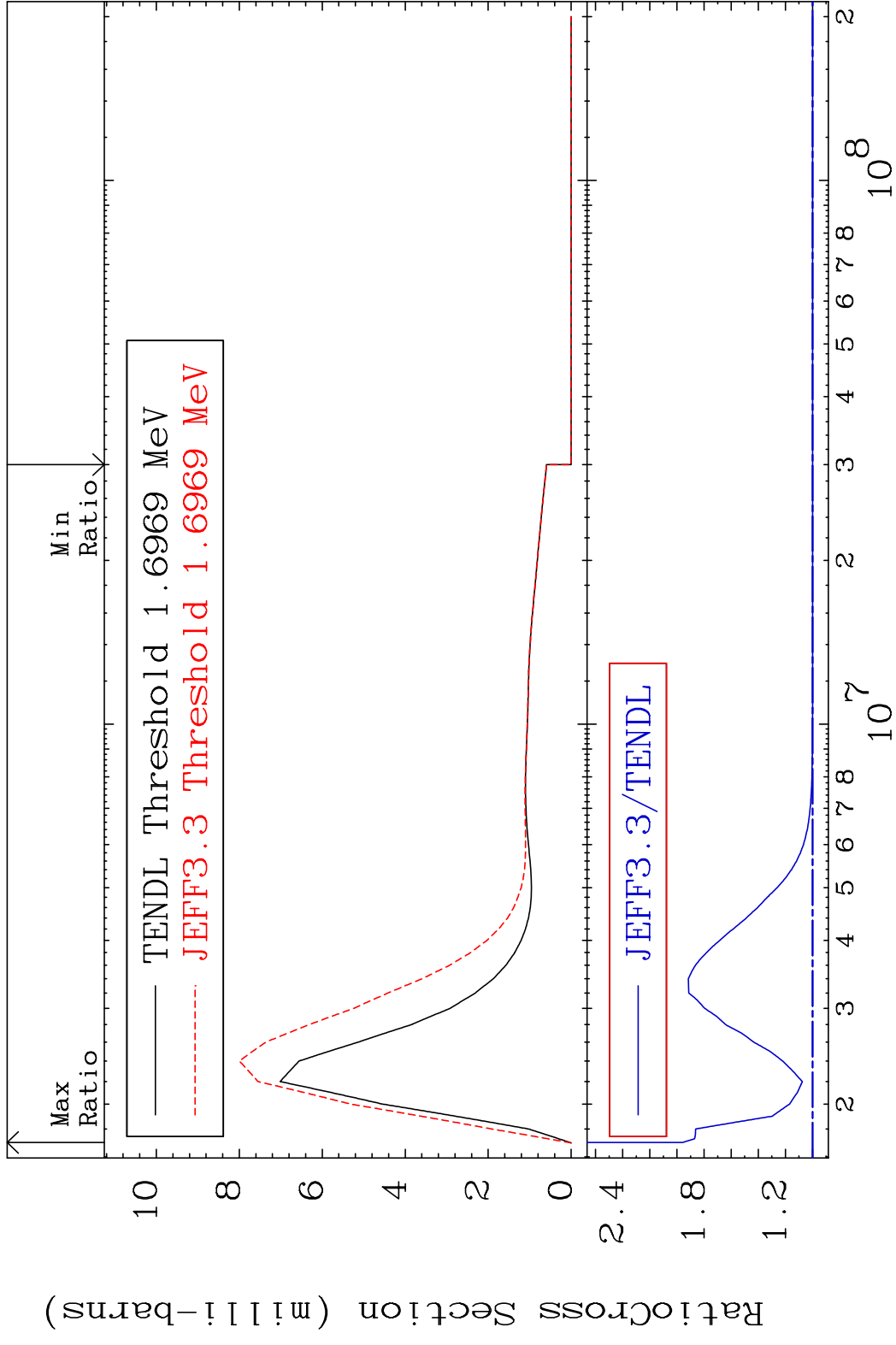
MAT 6649 MT= 74 (n,n') Level 66-Dy-164
 Cross Section -100.0 To 179.1 %



MAT 6649 MT= 75 (n,n') Level 66-Dy-164
 Cross Section -0.001 To 85.05 %

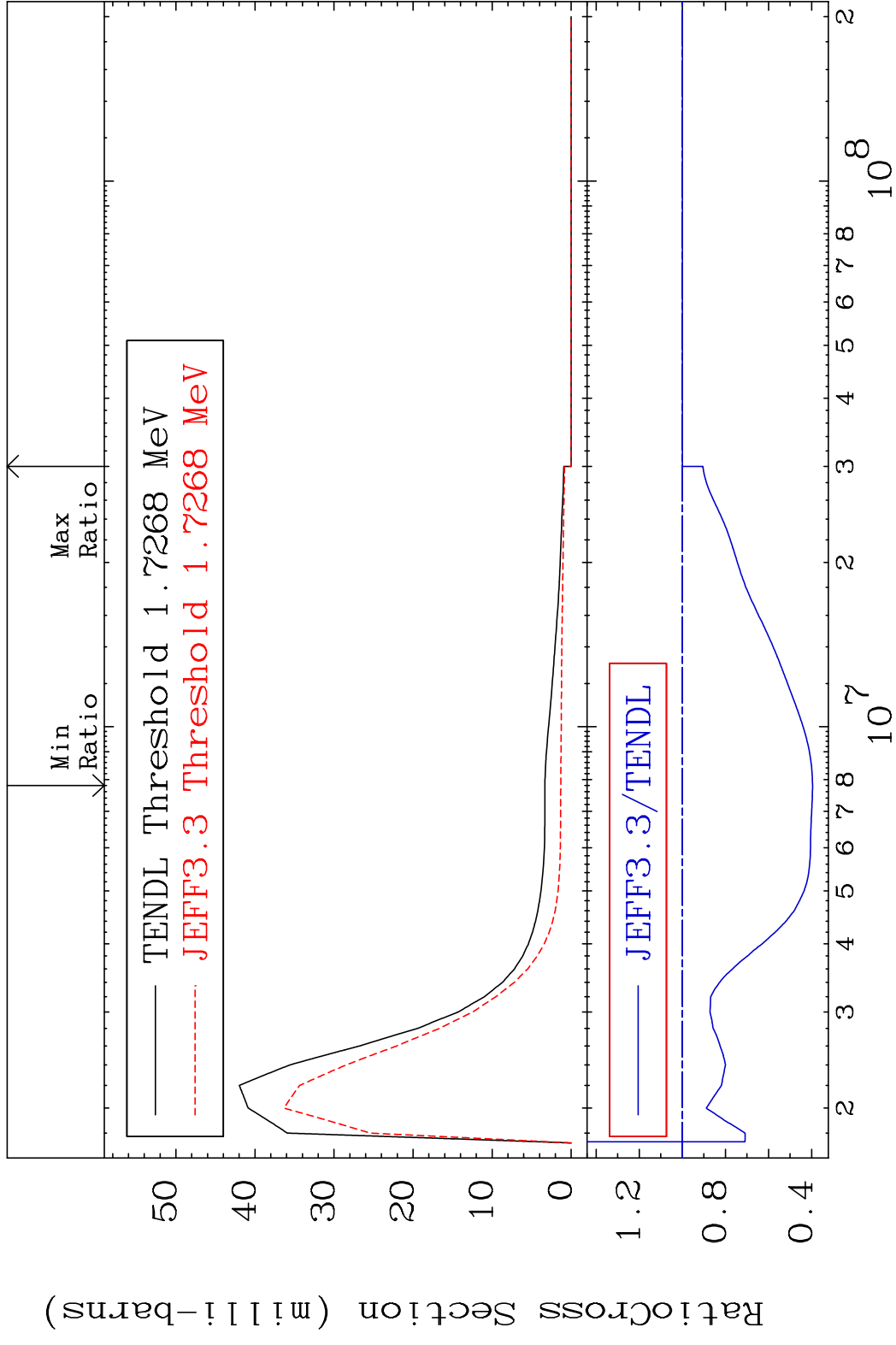


MAT 6649 MT= 76 (n,n') Level 66-Dy-164
 Cross Section 0.000 To 96.01 %

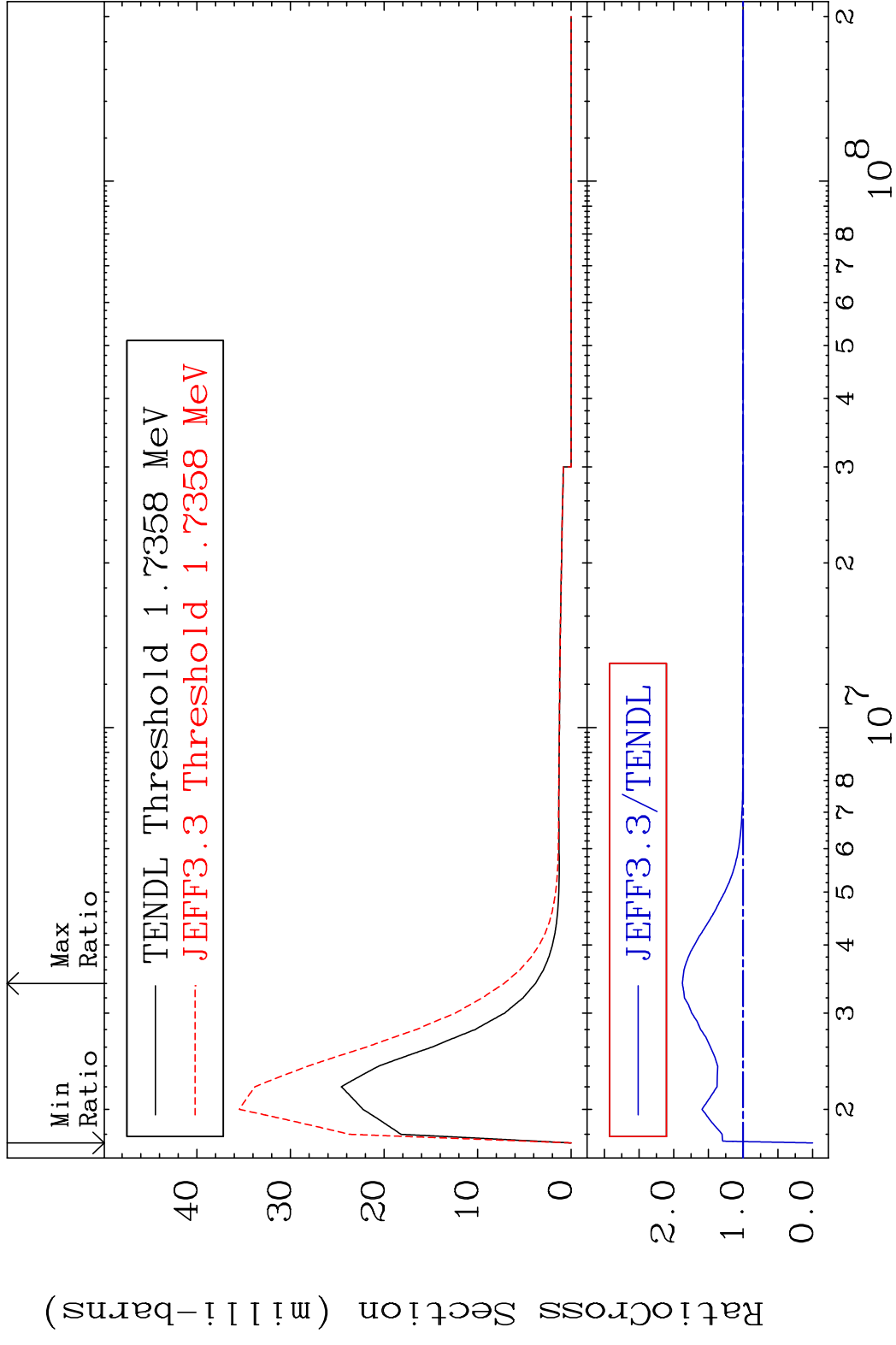


45 Incident Energy (eV) 66-Dy-164

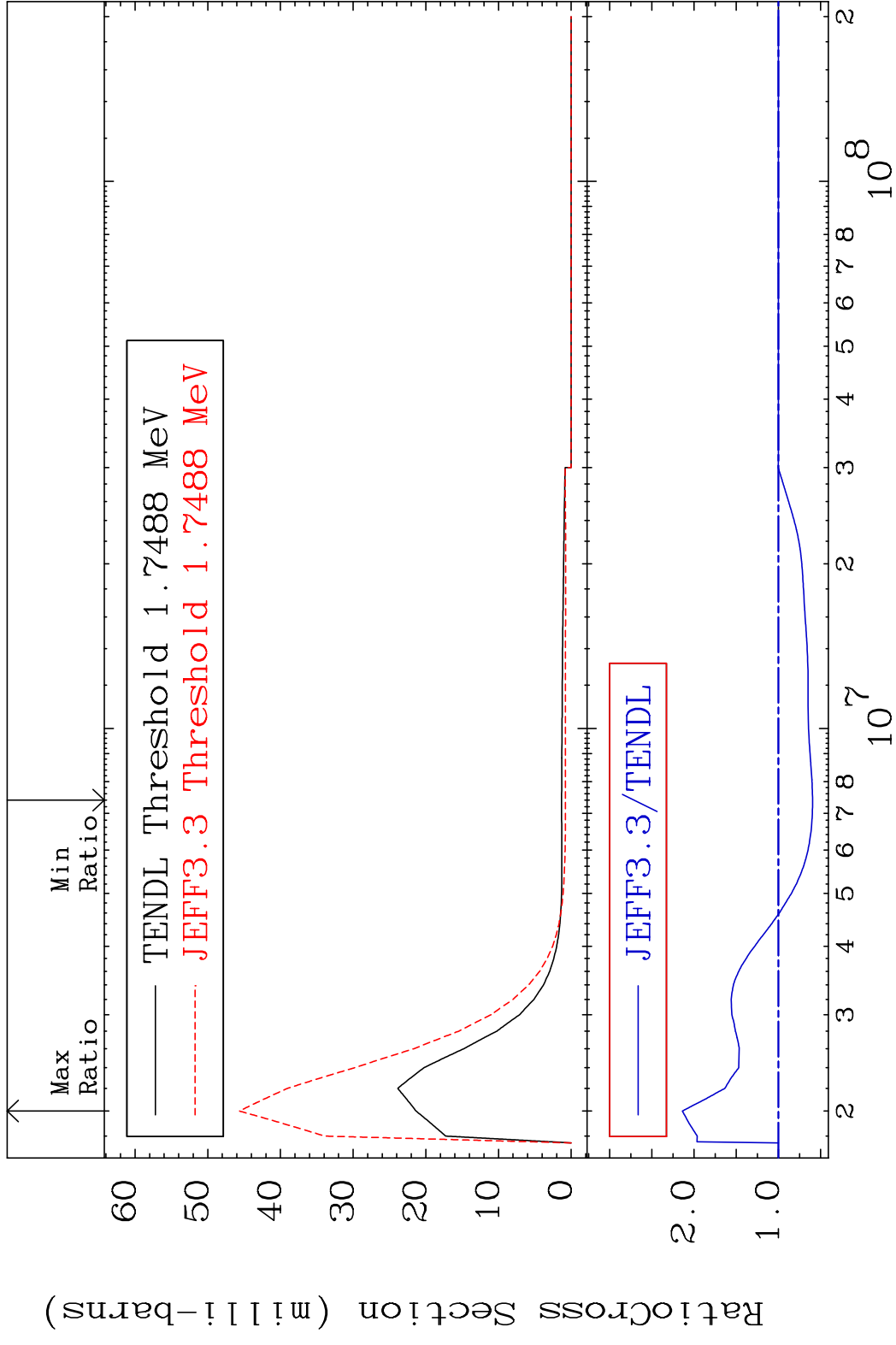
MAT 6649 MT= 77 (n, n') Level 66-Dy-164
 Cross Section -60.40 To 0.000 %



MAT 6649 MT= 78 (n, n') Level 66-Dy-164
 Cross Section -100.0 To 87.63 %



MAT 6649 MT= 79 (n,n') Level 66-Dy-164
 Cross Section -40.44 To 113.9 %

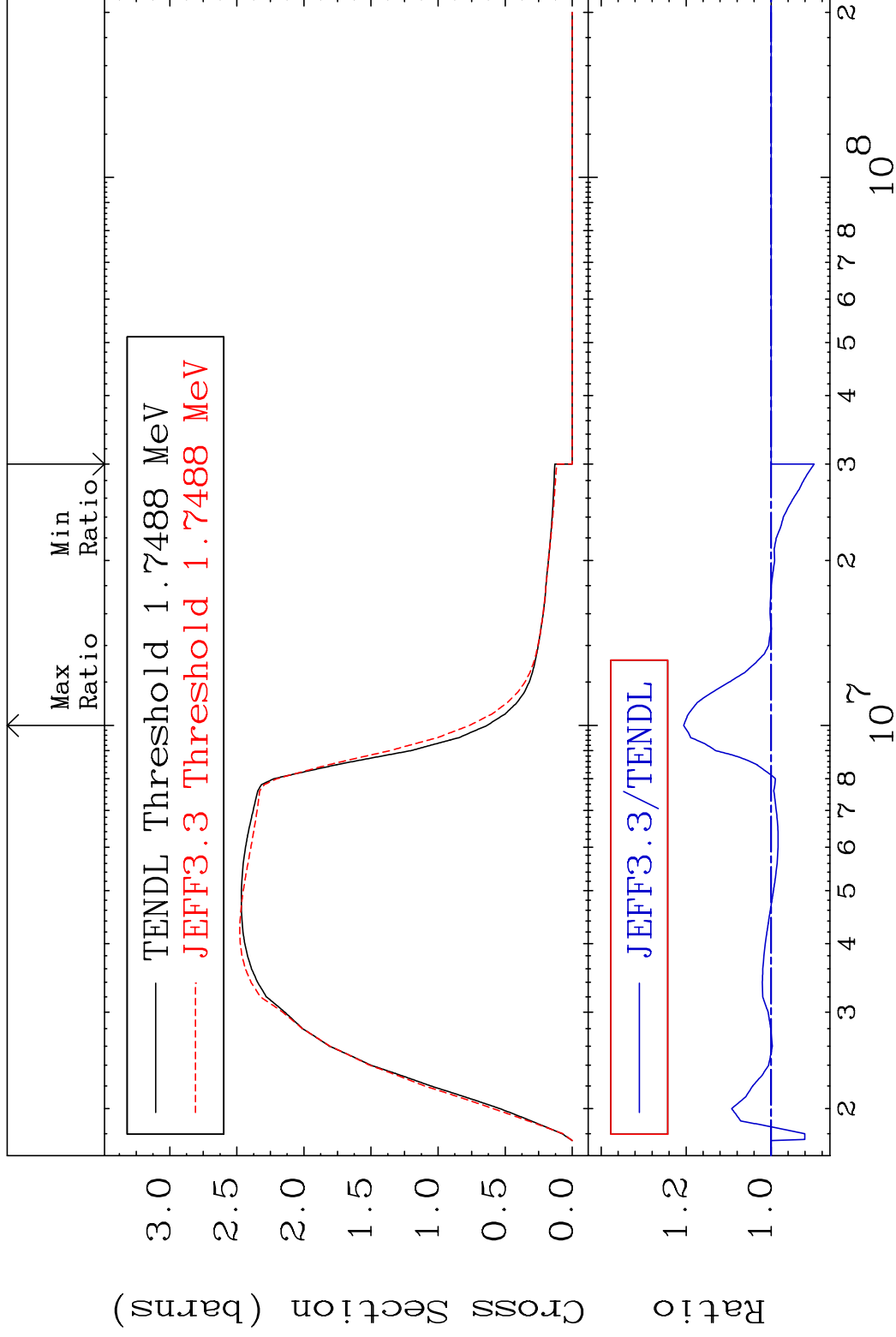


MAT 6649

(n, n') Continuum

66-Dy-164

Cross Section -10.11 To 20.58 %



49

Incident Energy (eV)

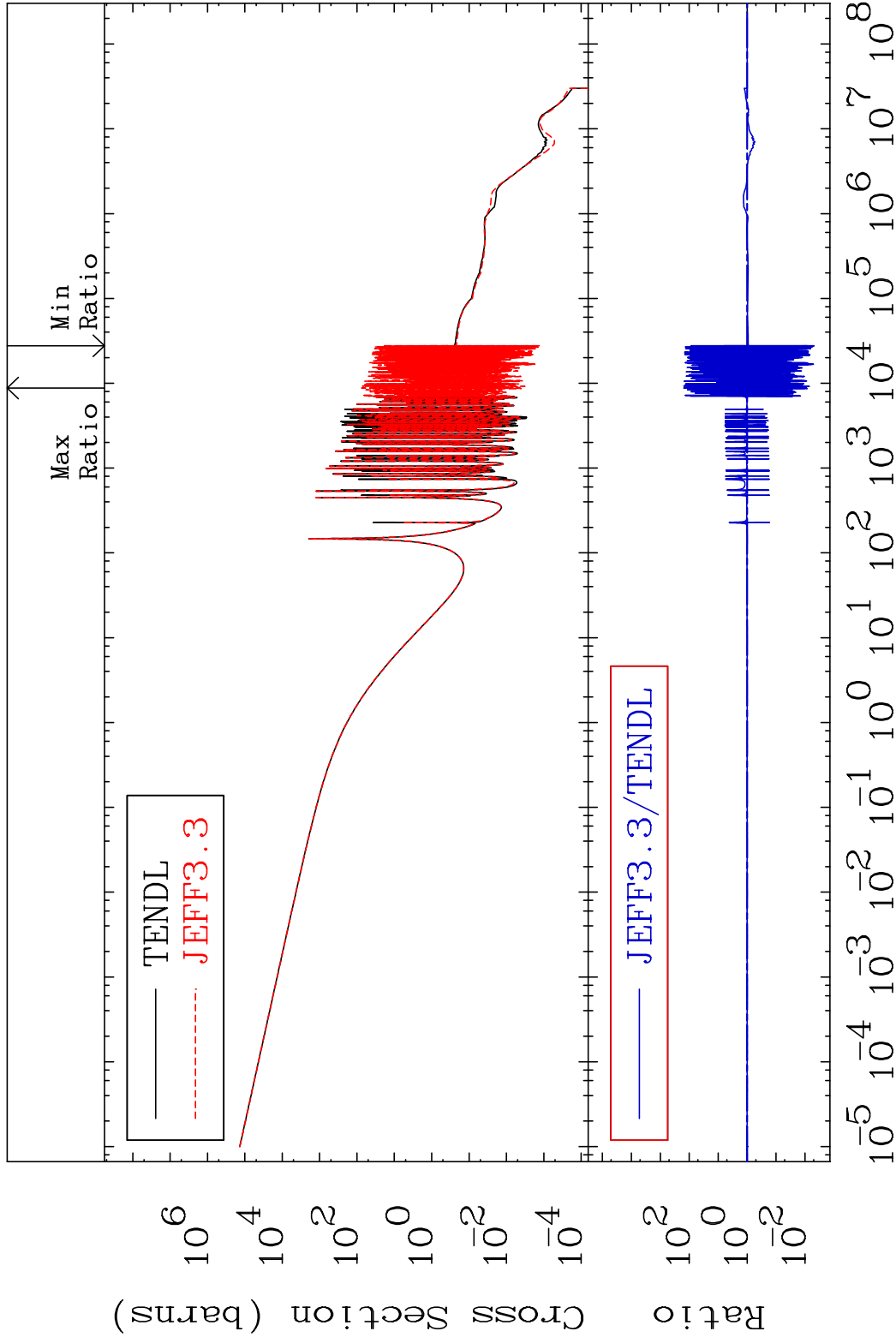
66-Dy-164

MAT 6649

(n, γ)

66-Dy-164

Cross Section -99.52 To 9999. %



50

Incident Energy (eV)

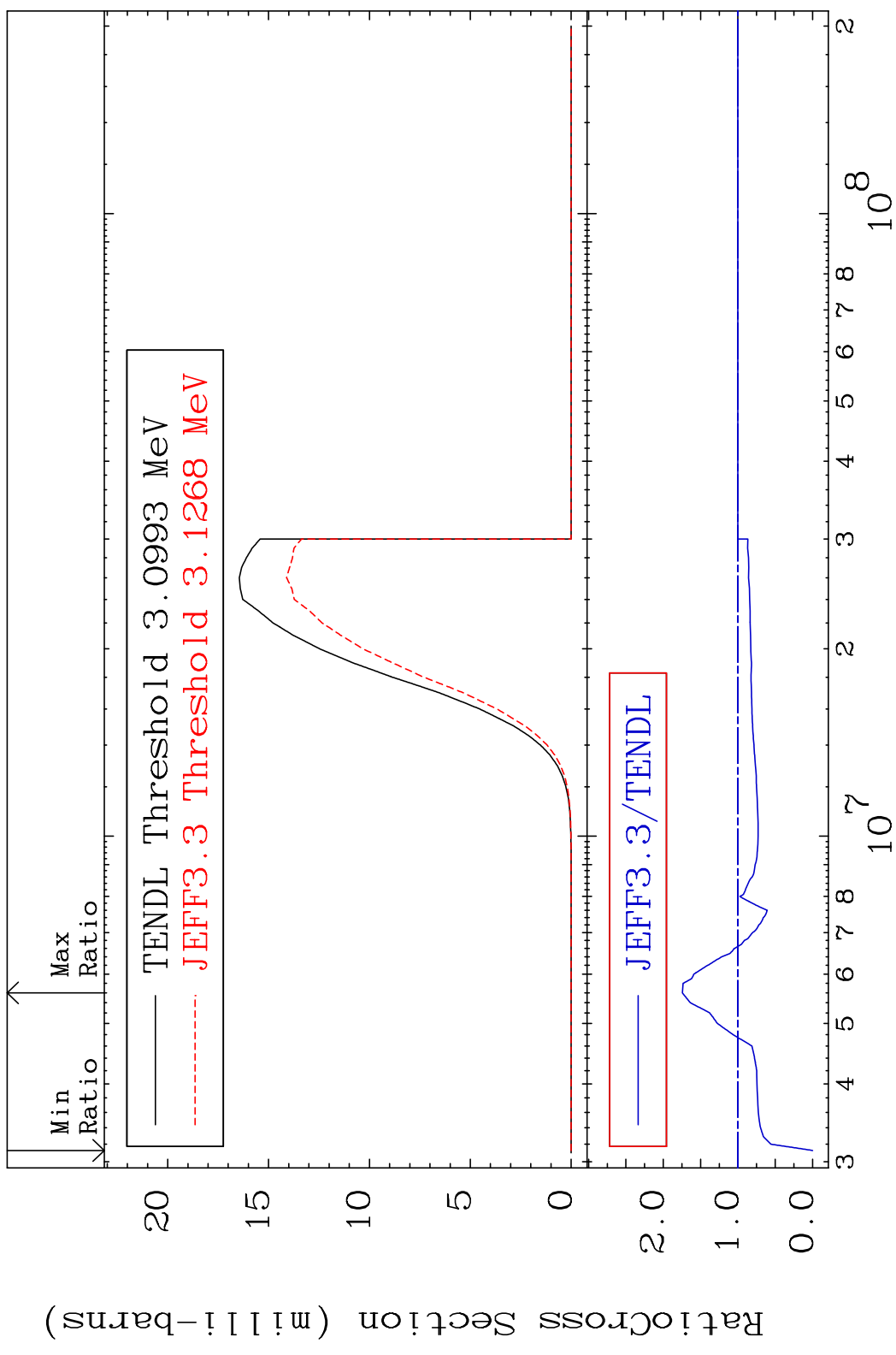
66-Dy-164

MAT 6649

(n,p)

66-Dy-164

Cross Section -100.0 To 74.42 %

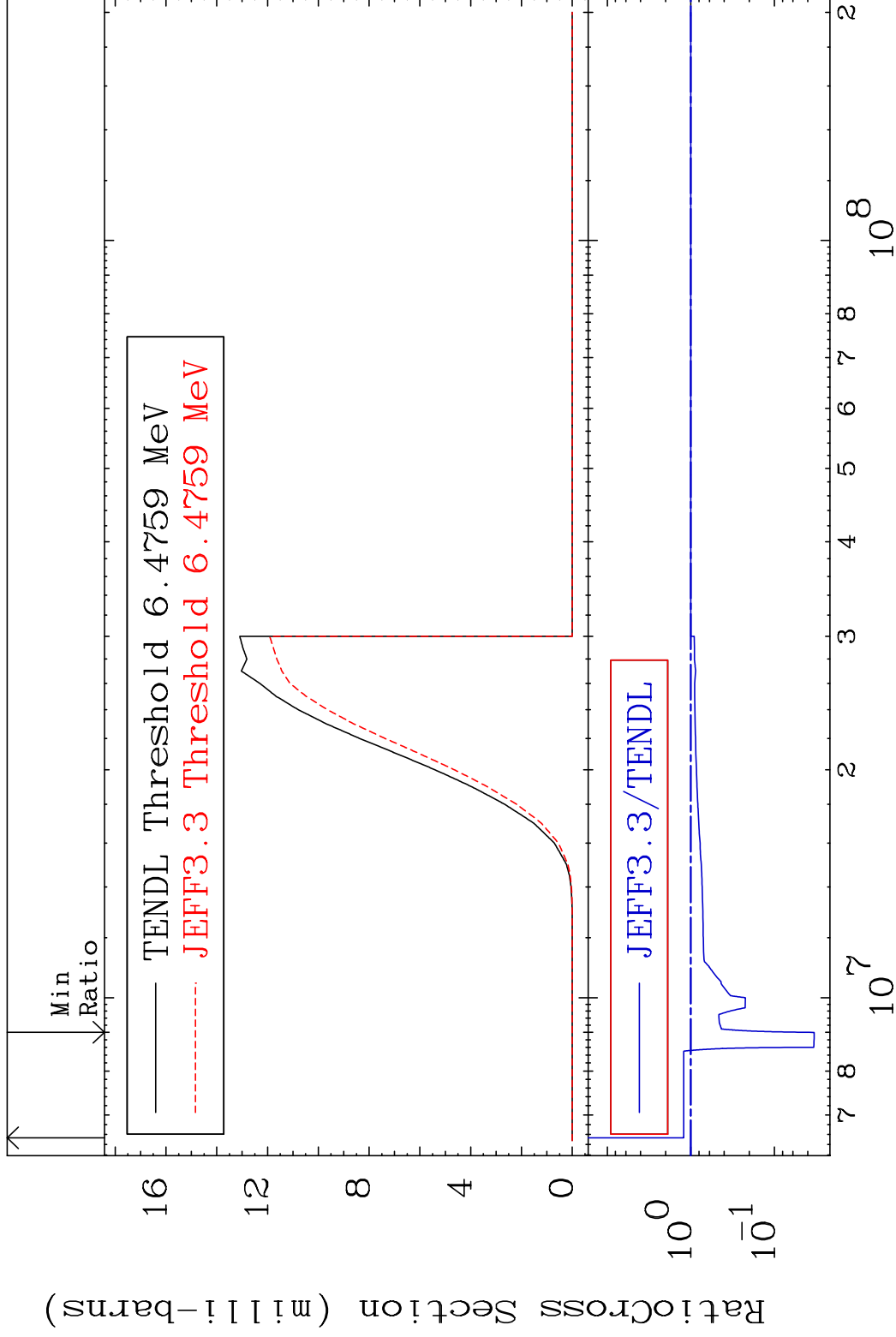


MAT 6649

(n, d)

66-Dy-164

Cross Section -96.65 To 22.01 %



52

Incident Energy (eV)

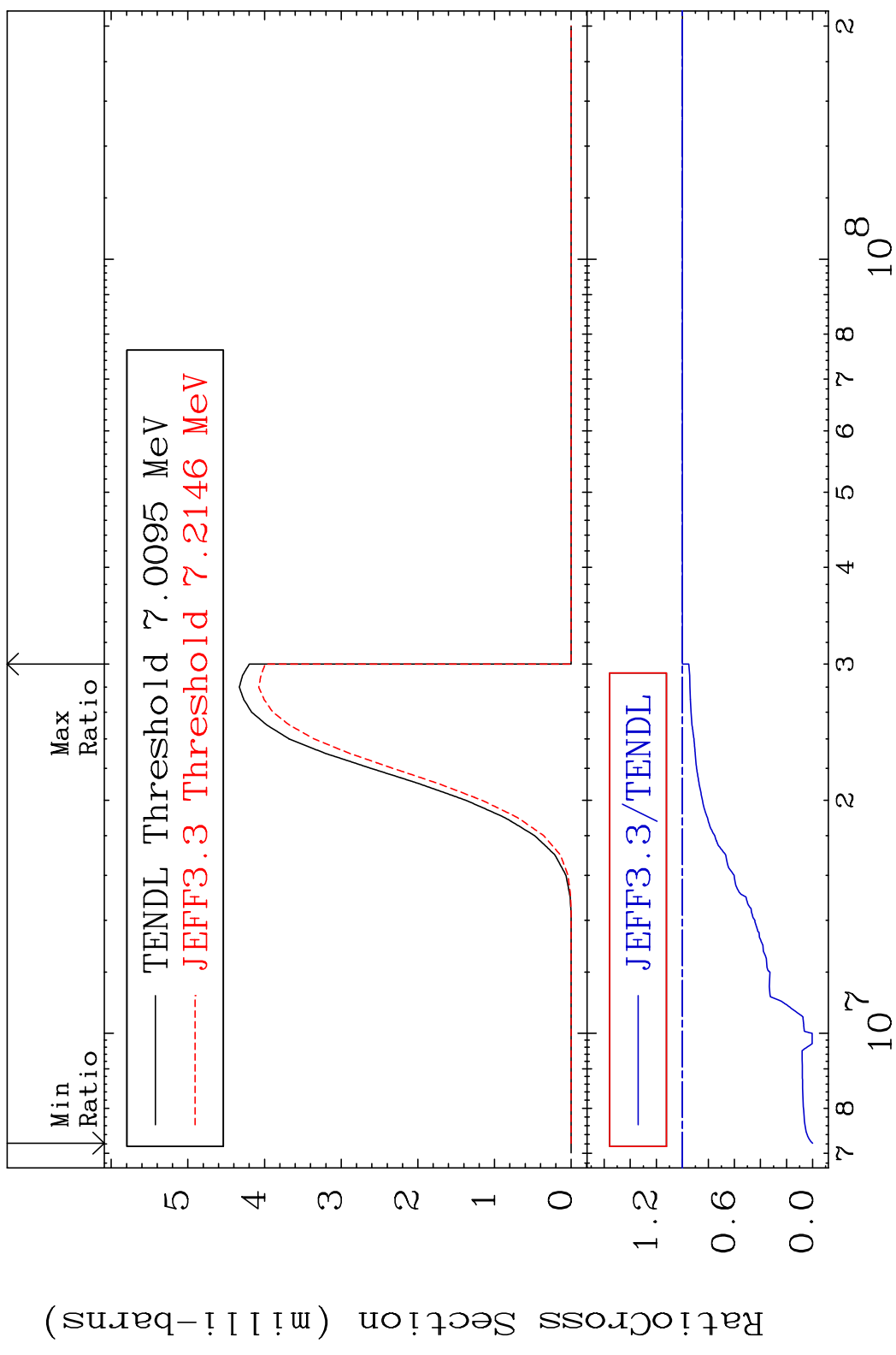
66-Dy-164

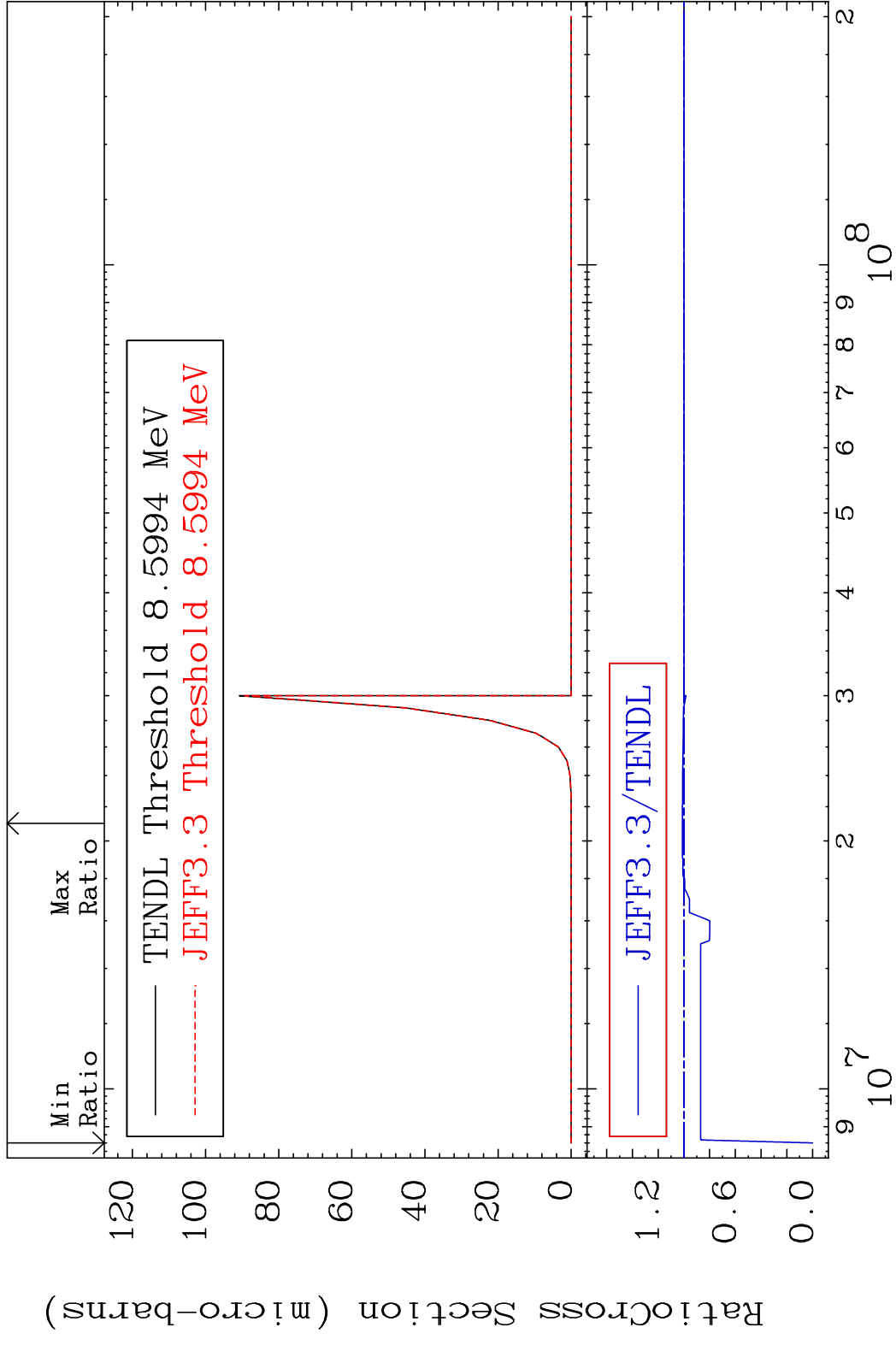
MAT 6649

(n, t)

66-Dy-164

Cross Section -100.0 To 0.000 %



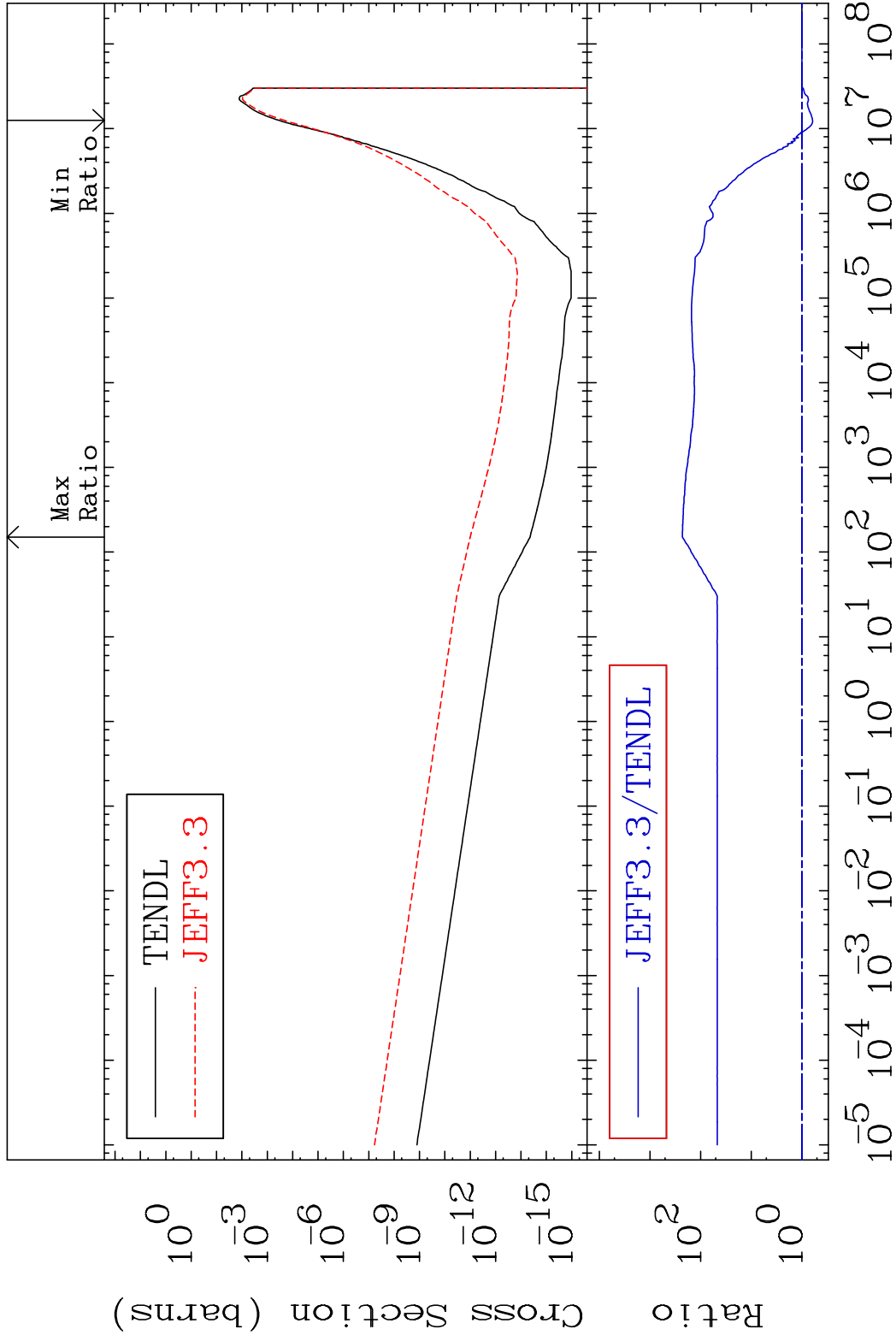


MAT 6649

(n, α)

66-Dy-164

Cross Section -38.68 To 9999. %



55

Incident Energy (eV)

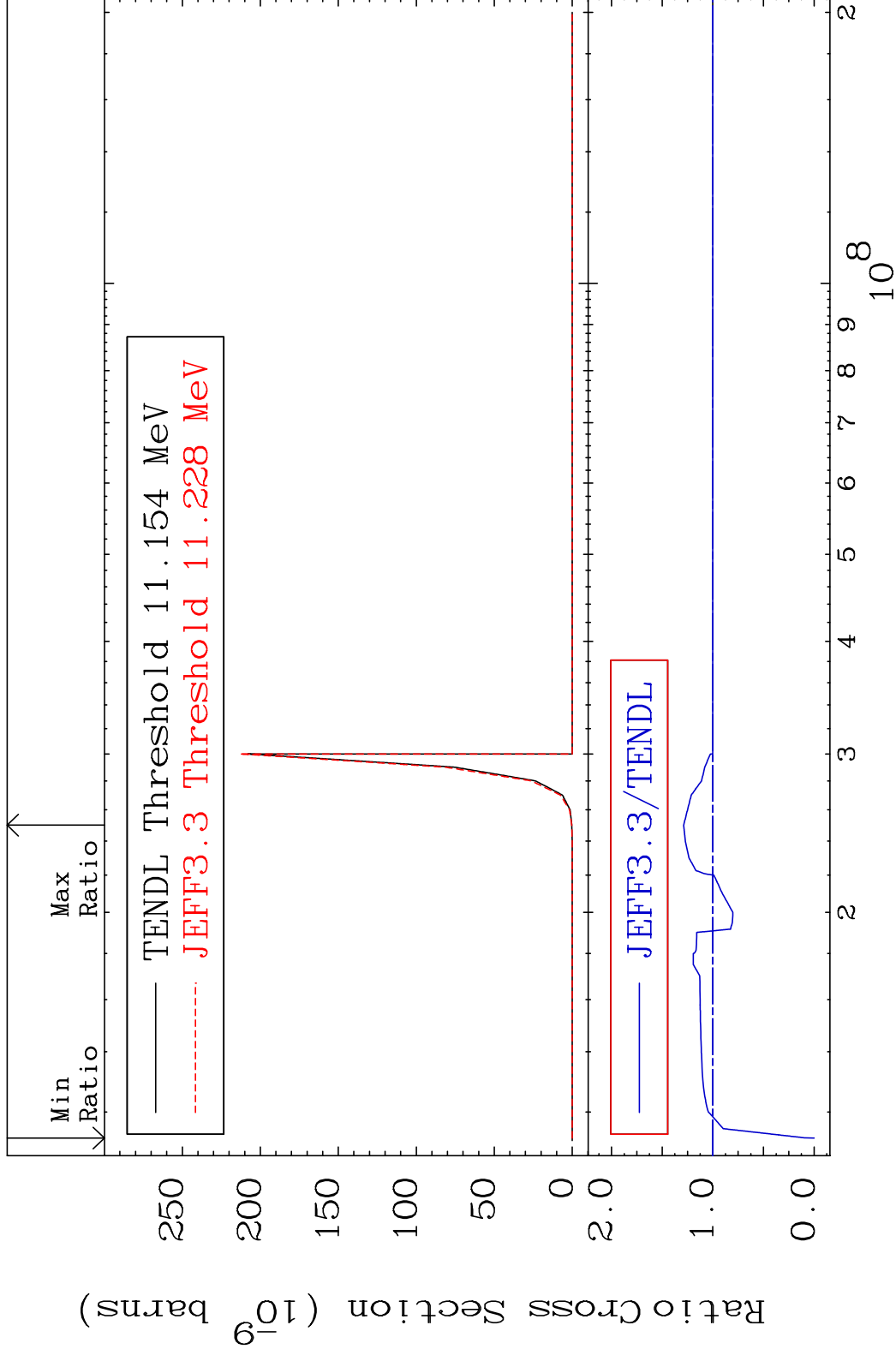
66-Dy-164

MAT 6649

(n,2p)

66-Dy-164

Cross Section -100.0 To 28.78 %



56

Incident Energy (eV)

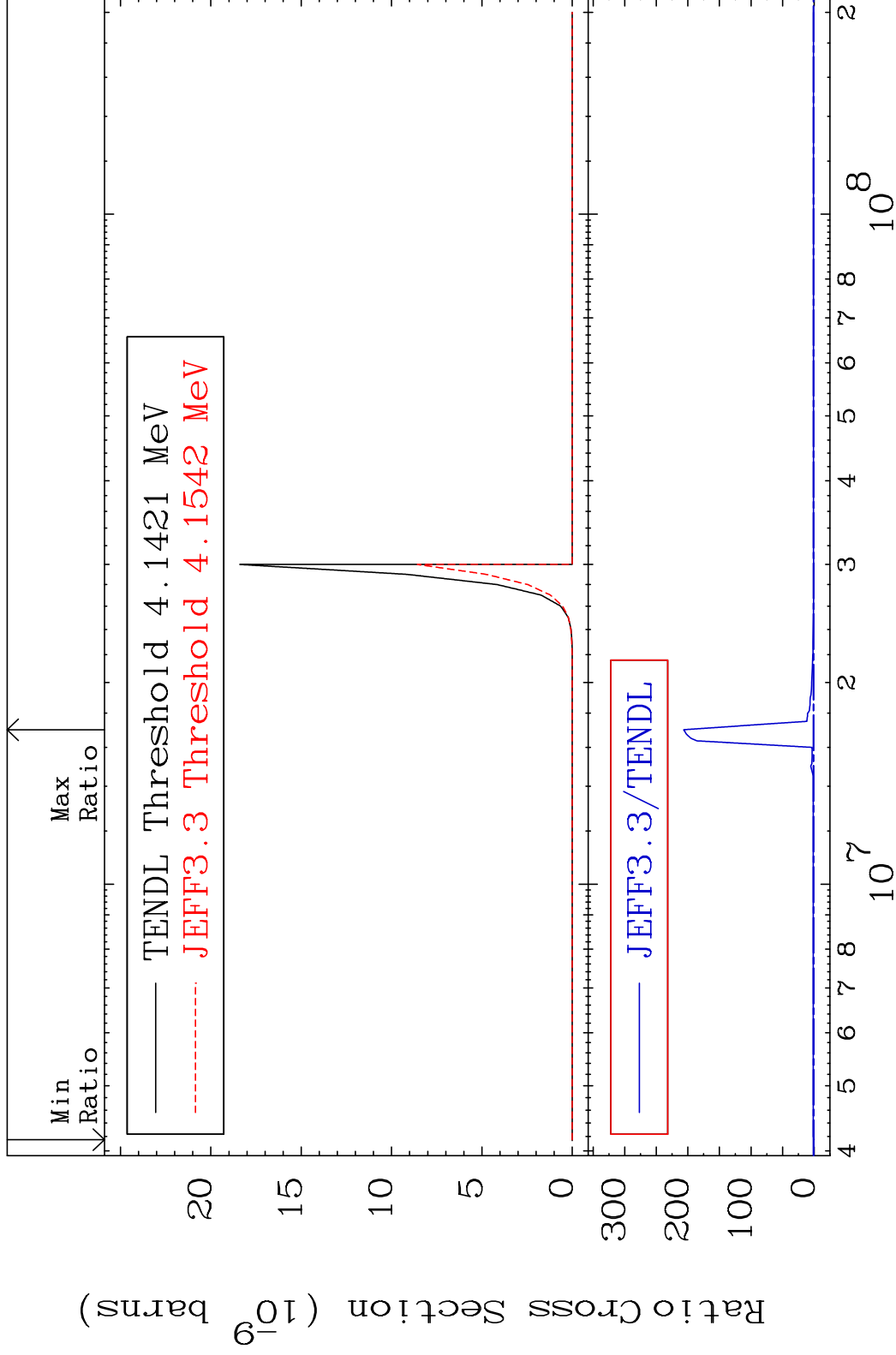
66-Dy-164

MAT 6649

(n,p) α

66-Dy-164

Cross Section -100.0 To 9999. %



57

Incident Energy (eV)

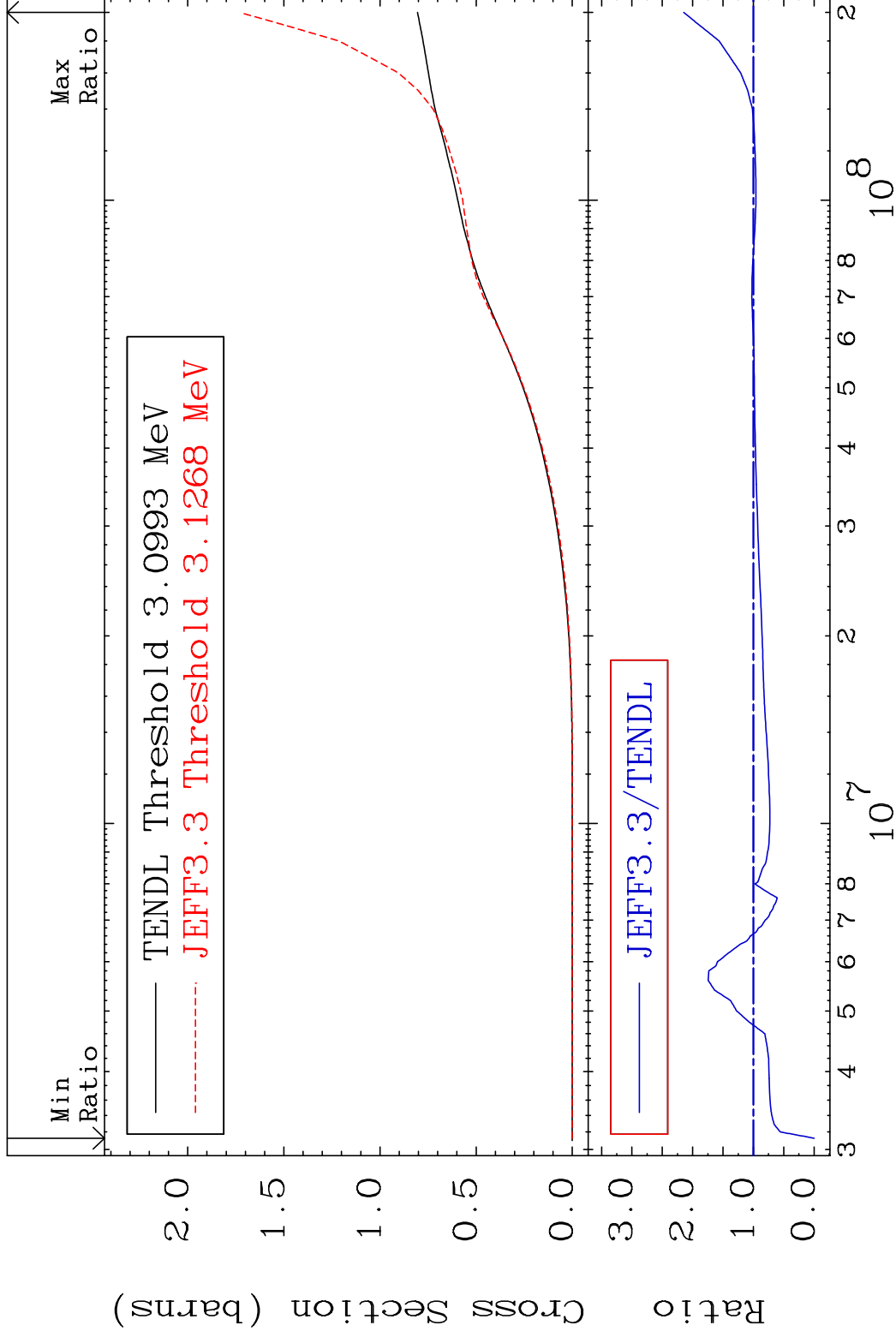
66-Dy-164

MAT 6649

Hydrogen Production

66-Dy-164

Cross Section -100.0 To 114.8 %



58

Incident Energy (eV)

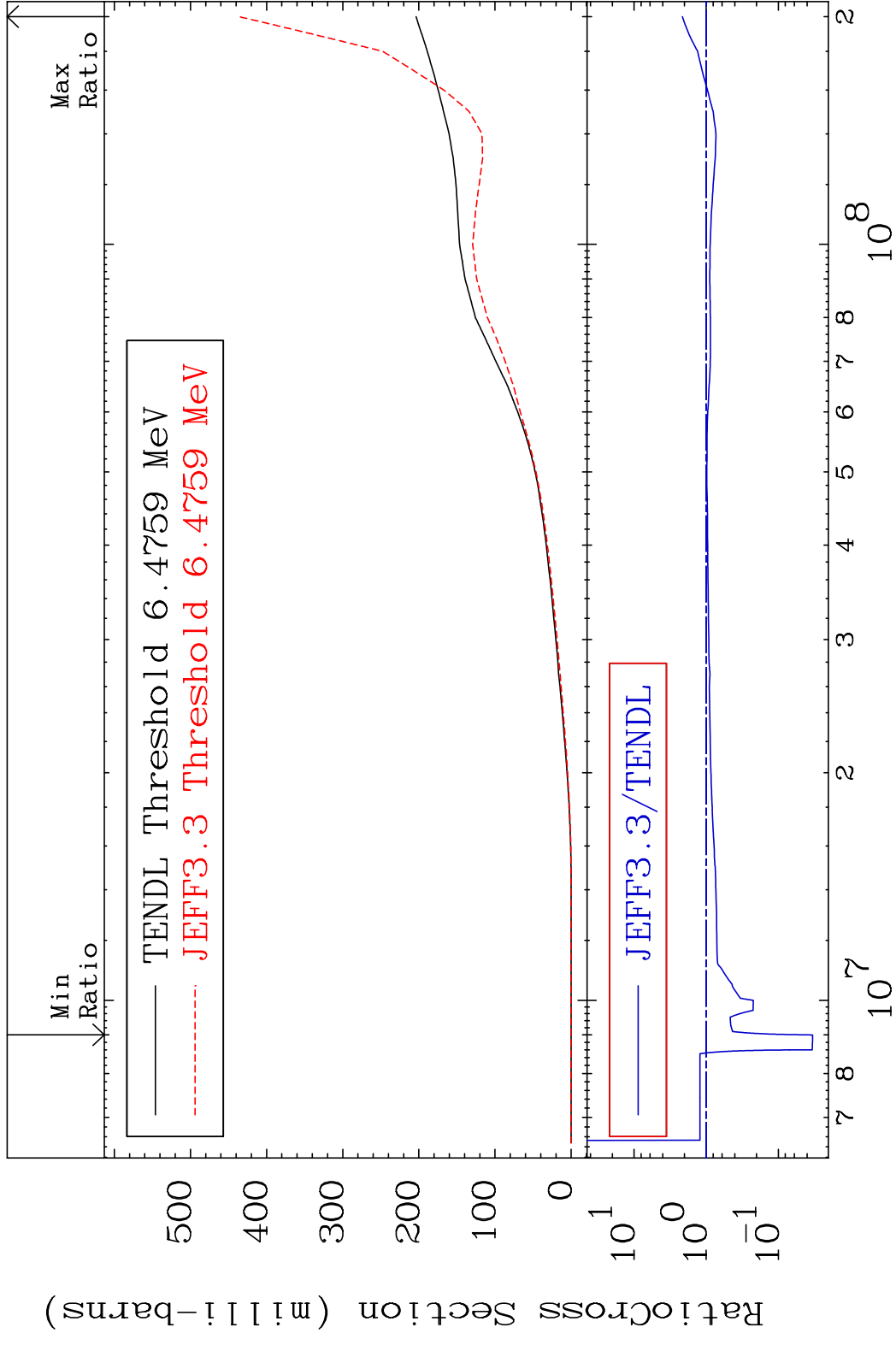
66-Dy-164

MAT 6649

Deuterium Production

66-Dy-164

Cross Section -96.65 To 113.8 %

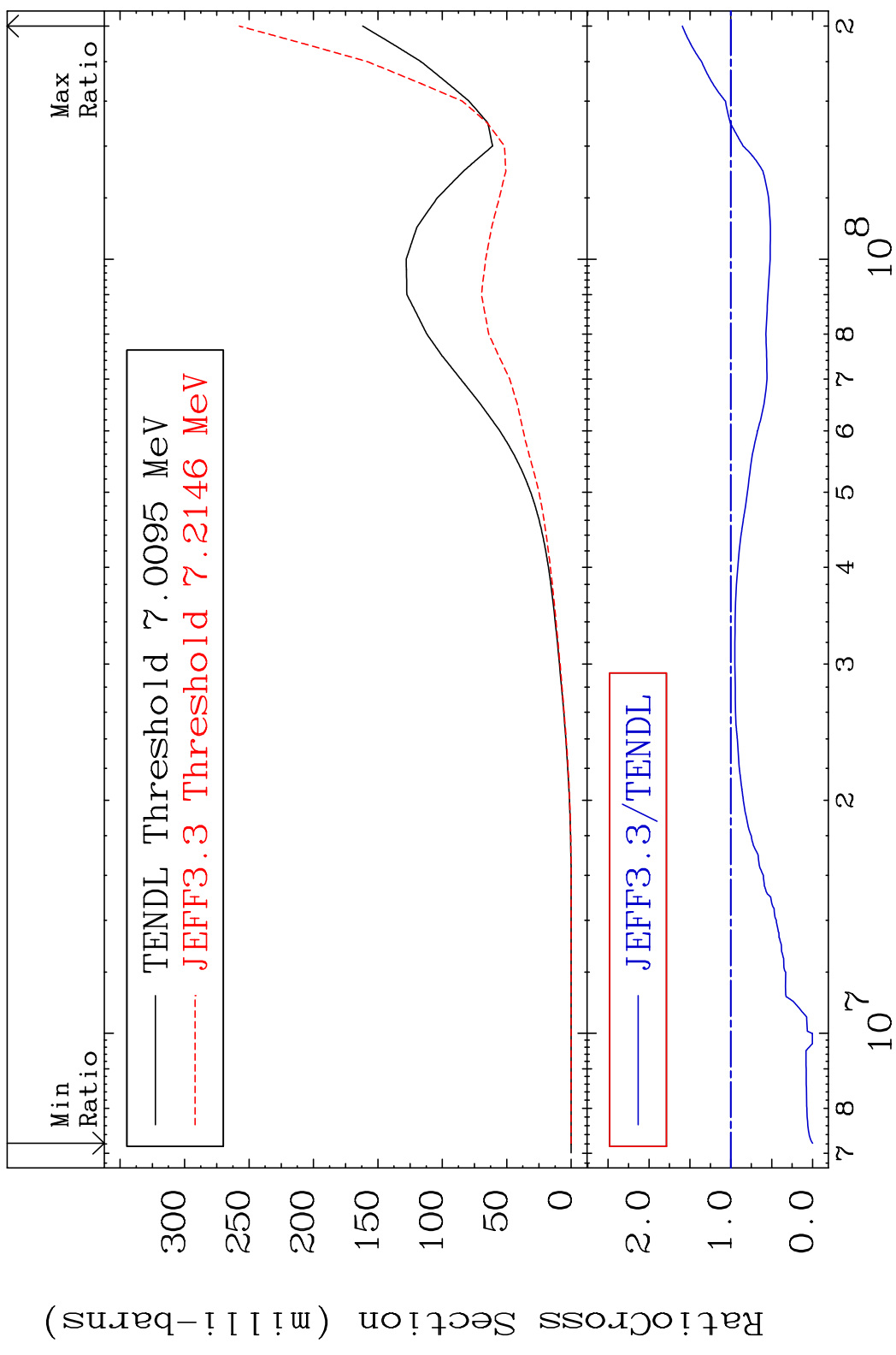


MAT 6649

Tritium Production

66-Dy-164

Cross Section -100.0 To 59.23 %



60

Incident Energy (eV)

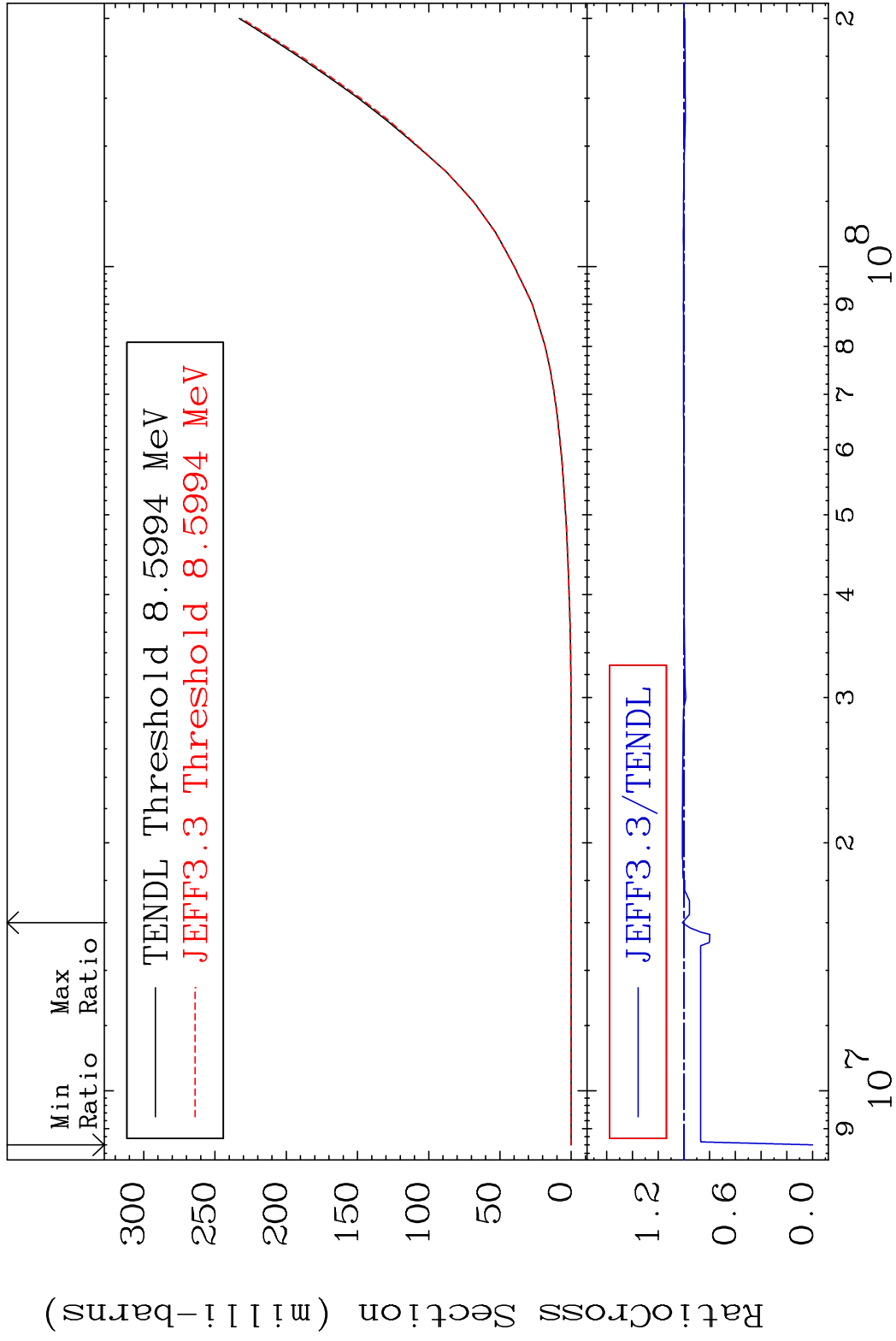
66-Dy-164

MAT 6649

He-3 Production

66-Dy-164

Cross Section -100.0 To 1.210 %



61

Incident Energy (eV)

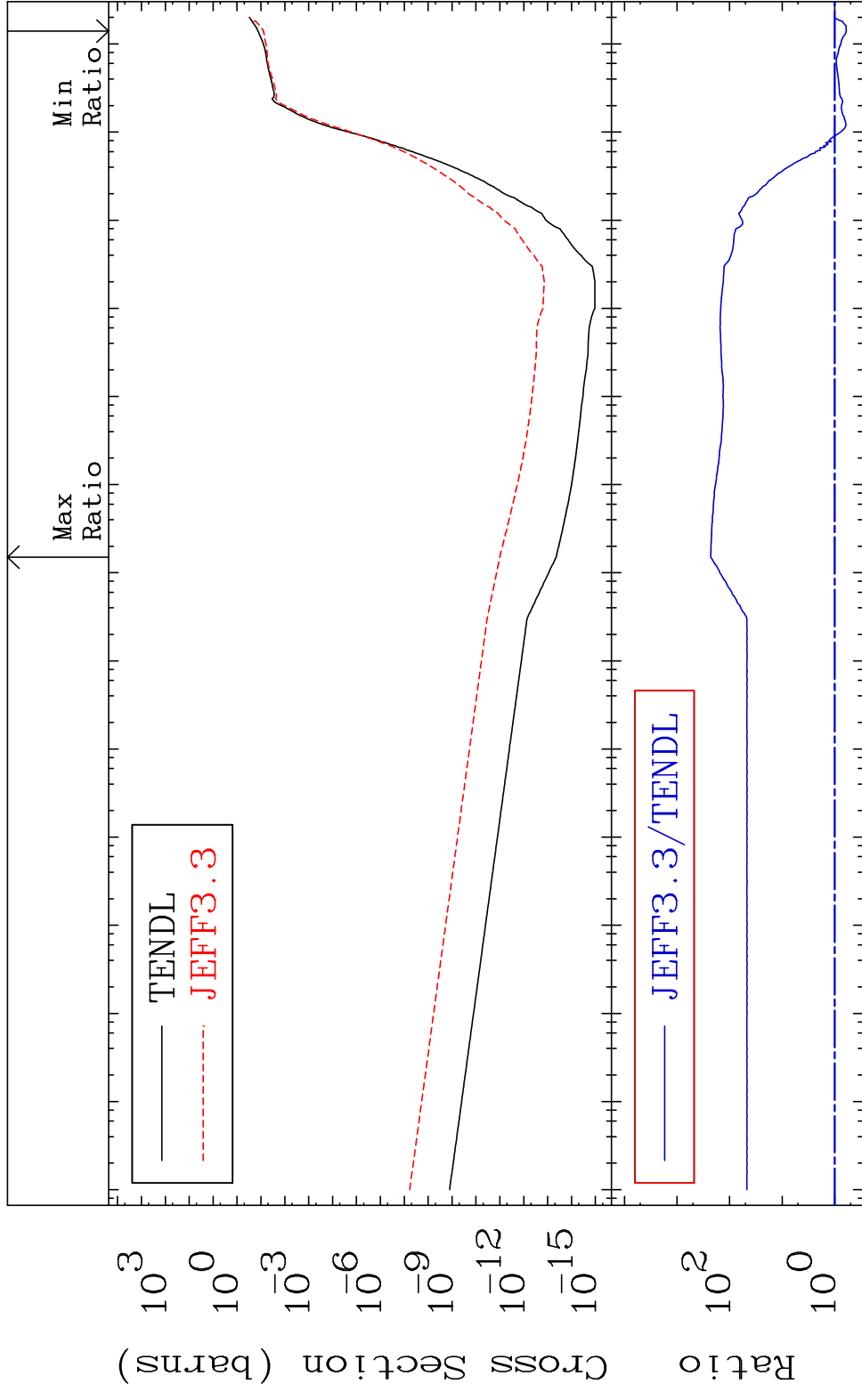
66-Dy-164

MAT 6649

He-4 Production

66-Dy-164

Cross Section -39.74 To 9999. %



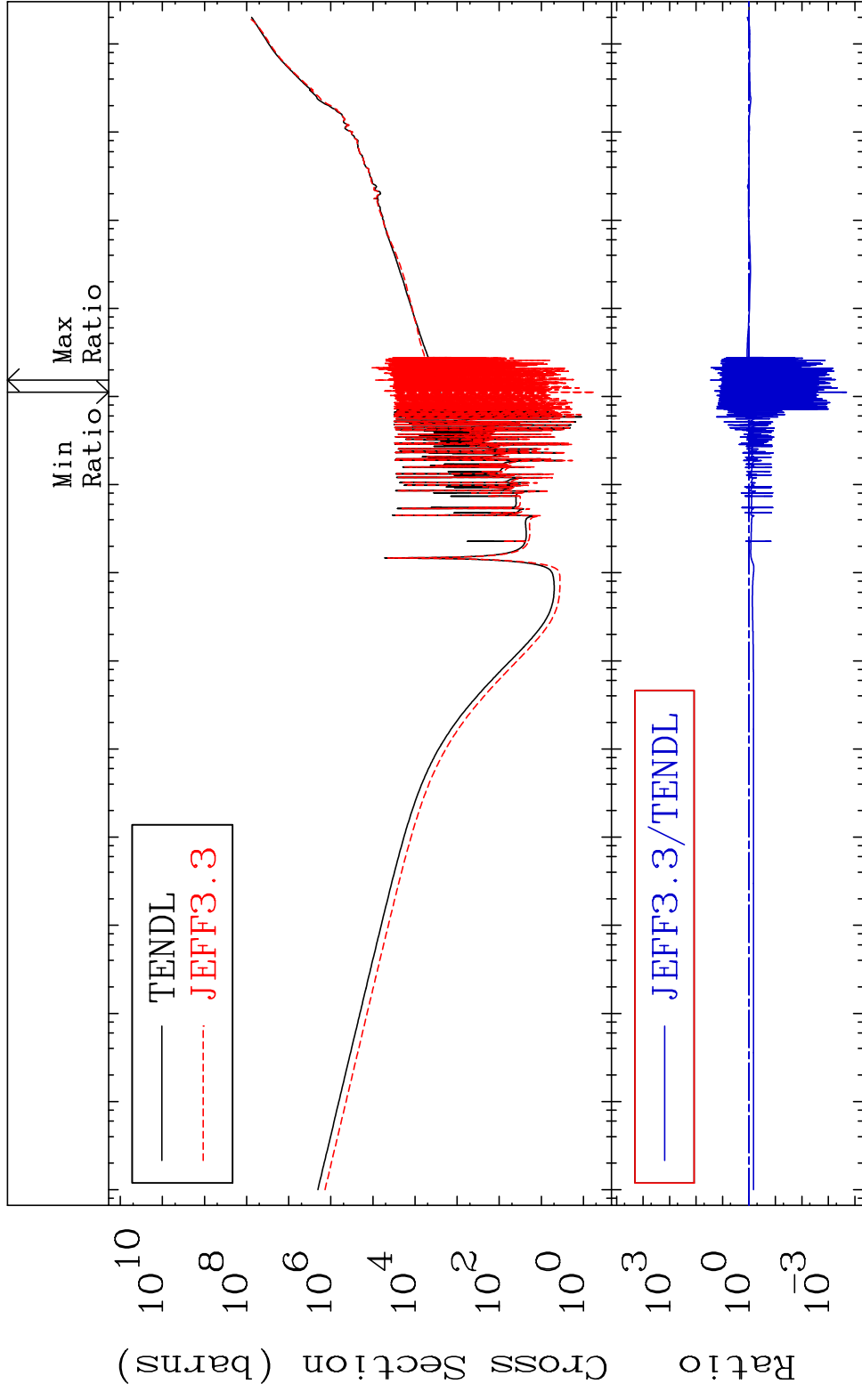
Ratio

62

Incident Energy (eV)

66-Dy-164

MAT 6649 Kerma total (eV-barns) 66-Dy-164
 Cross Section -99.98 To 2693. %

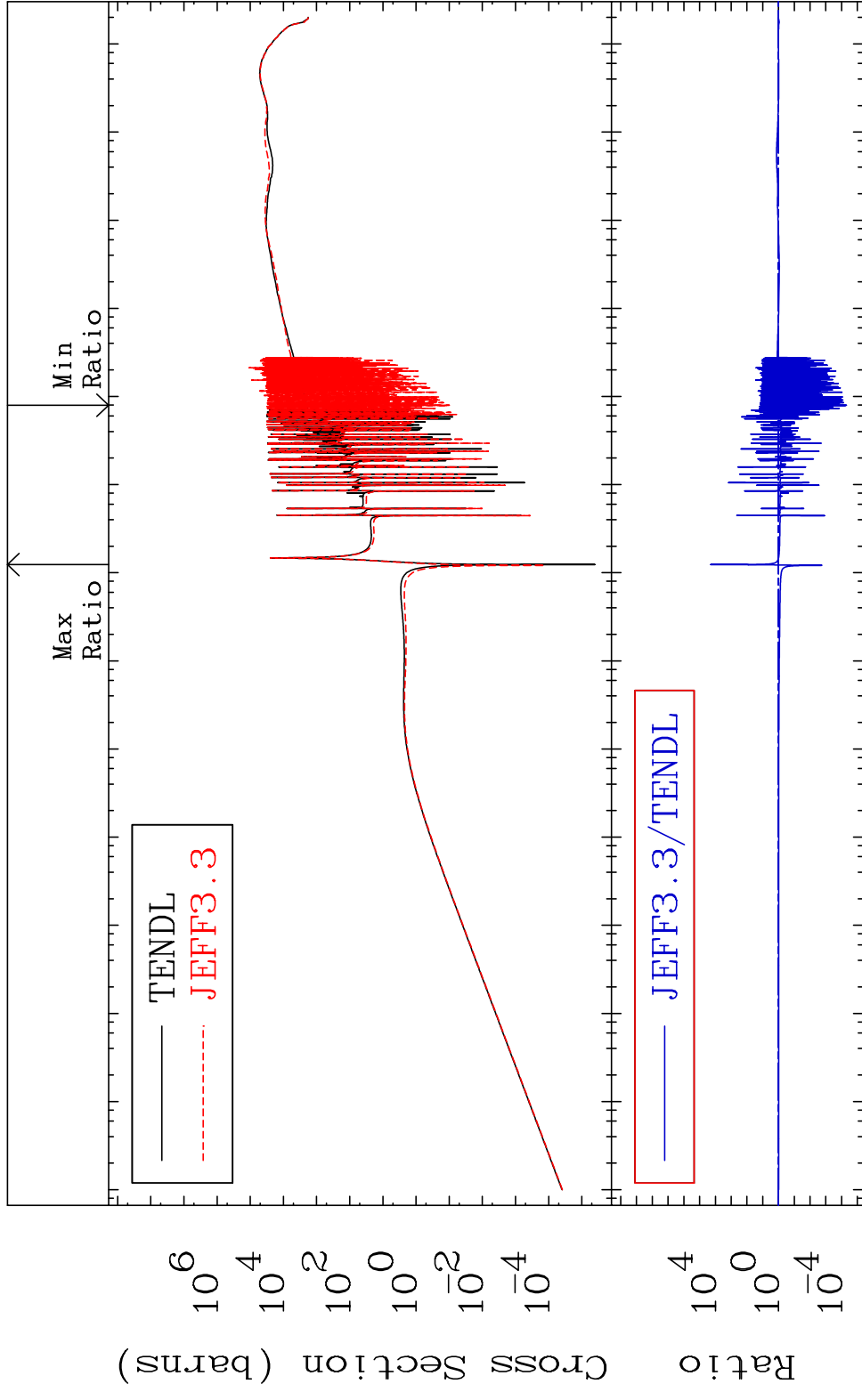


63 Incident Energy (eV) 66-Dy-164

MAT 6649

Kerma elastic
Cross Section

66-Dy-164
-99.99 To 9999. %



Cross Section (barns)
 10^6
 10^4
 10^2
 10^0
 10^{-2}
 10^{-4}

JEFF3.3/TENDL

Ratio
 10^4
 10^0
 10^{-4}

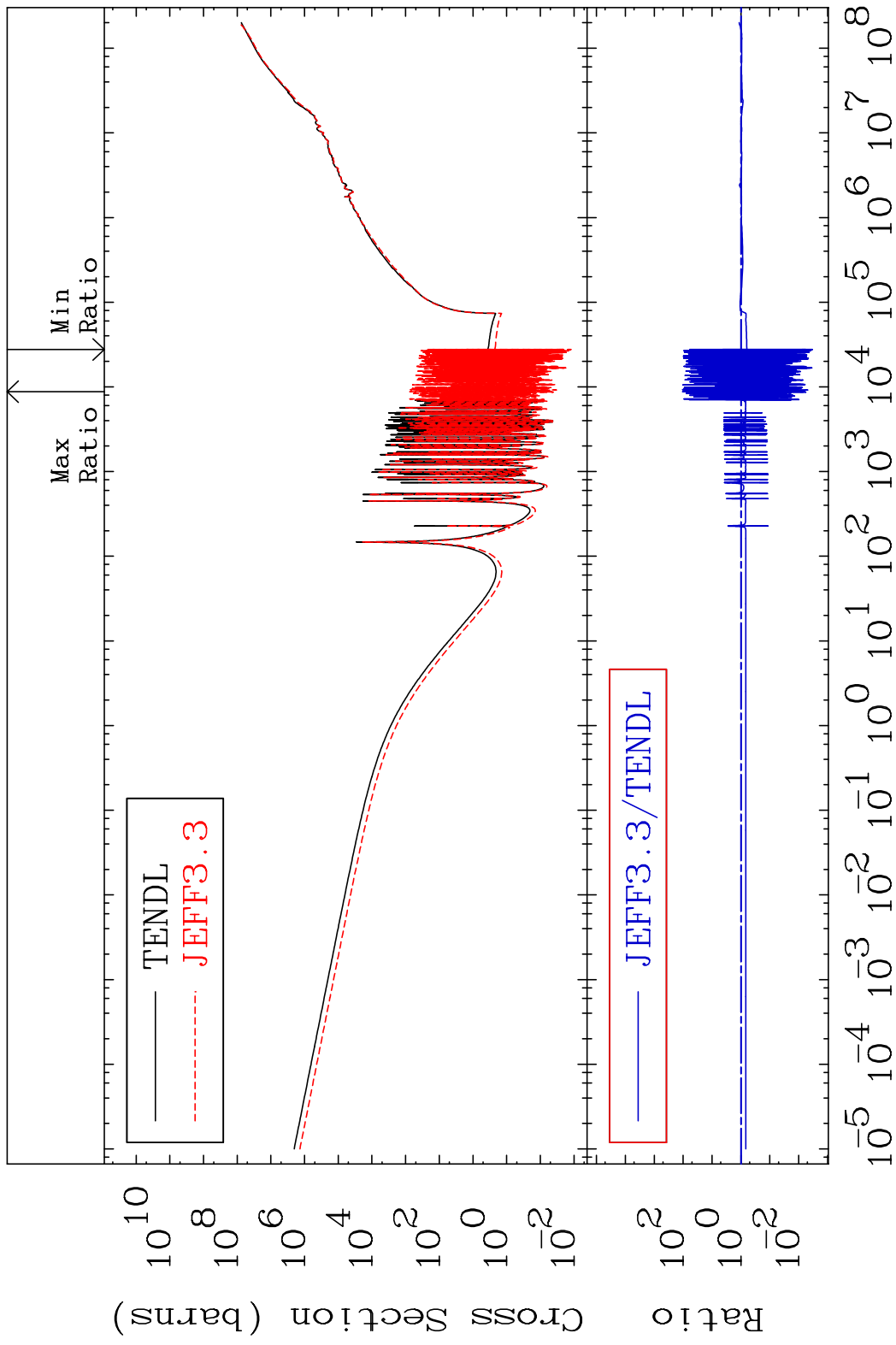
Incident Energy (eV)
 10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8

64

Incident Energy (eV)

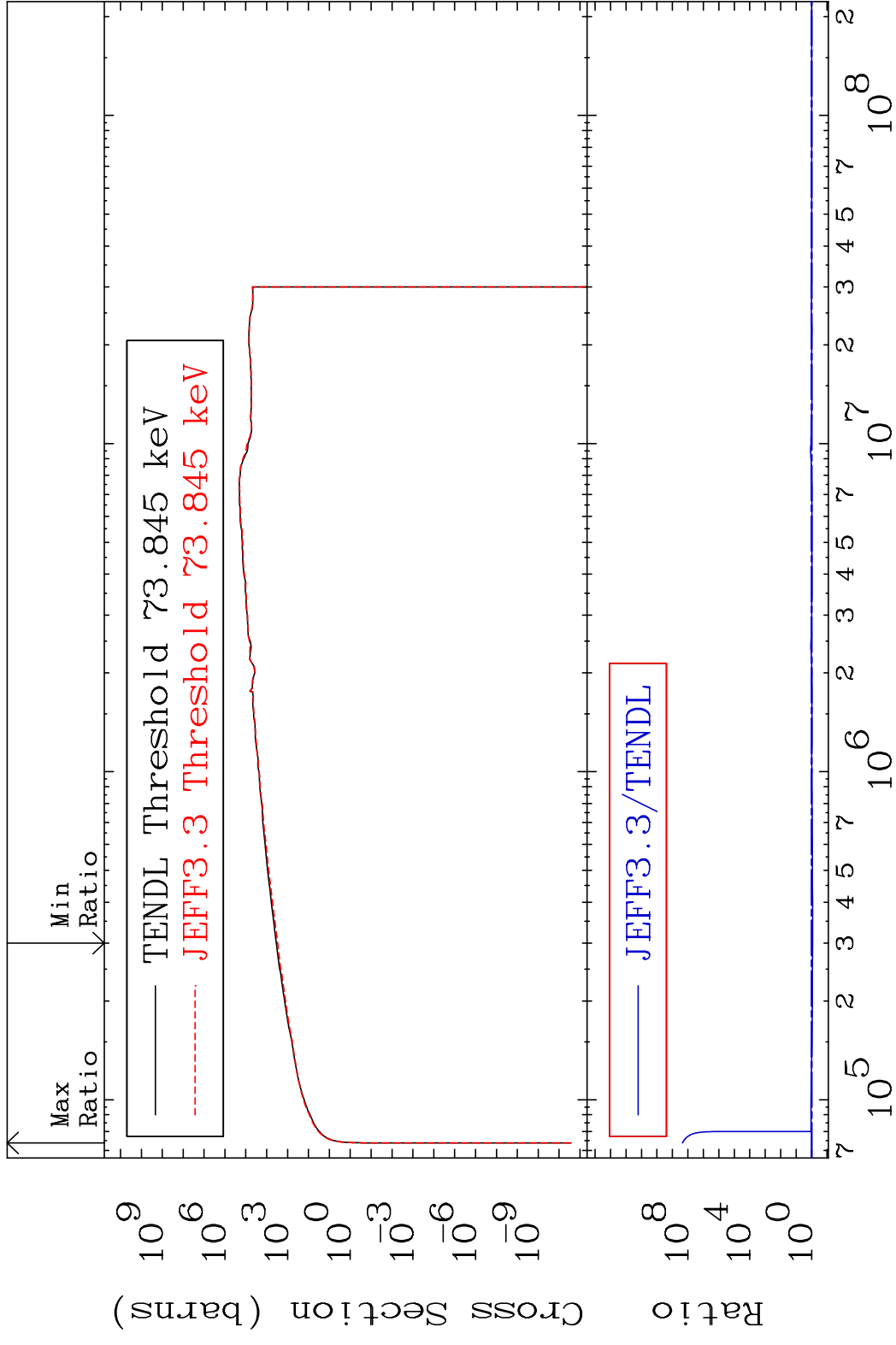
66-Dy-164

MAT 6649 Kerma non-elastic (all but mt2) 66-Dy-164
 Cross Section -99.67 To 9999. %



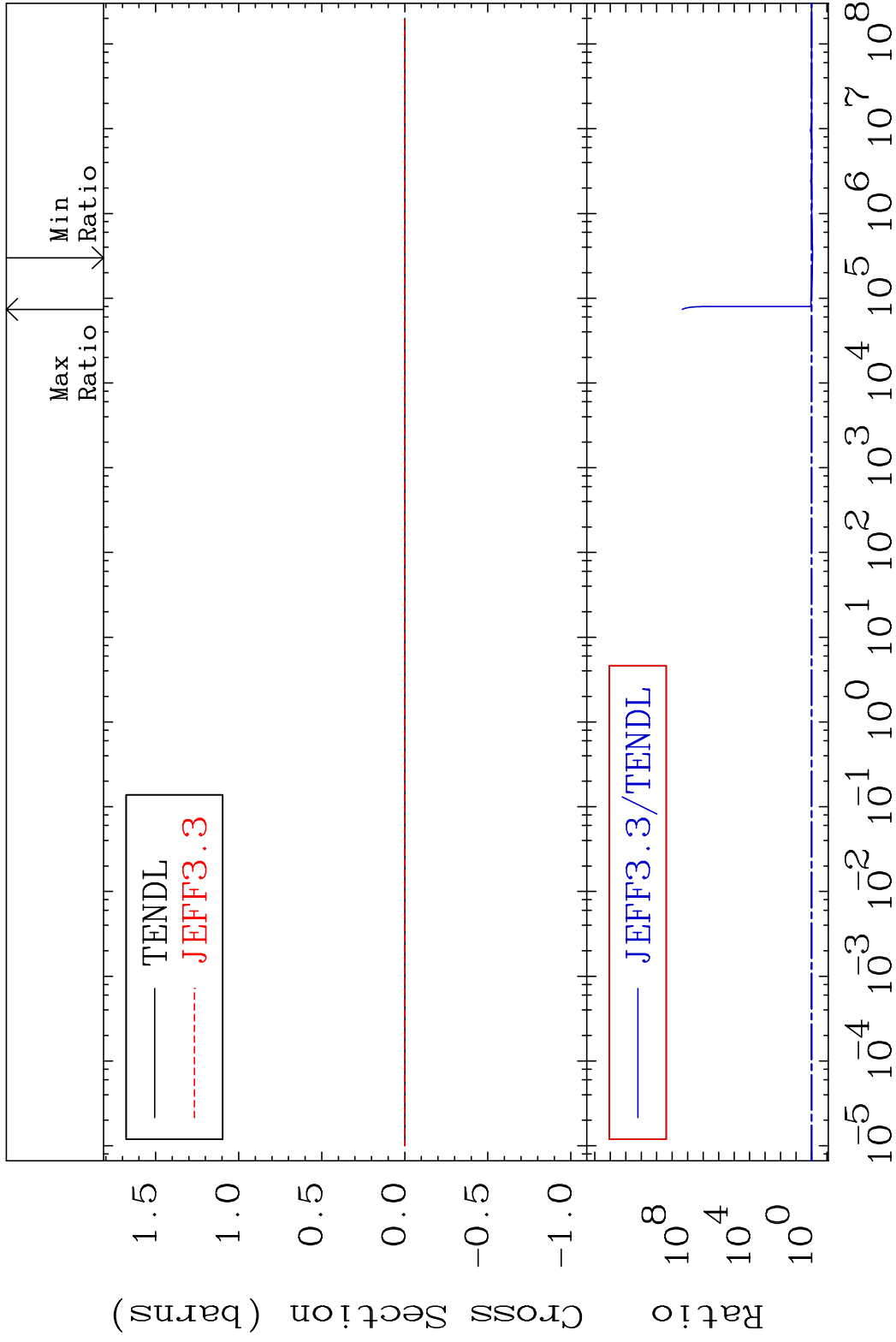
65 Incident Energy (eV) 66-Dy-164

MAT 6649 Kerma inelastic (mt51-91) 66-Dy-164
 Cross Section -13.31 To 9999. %



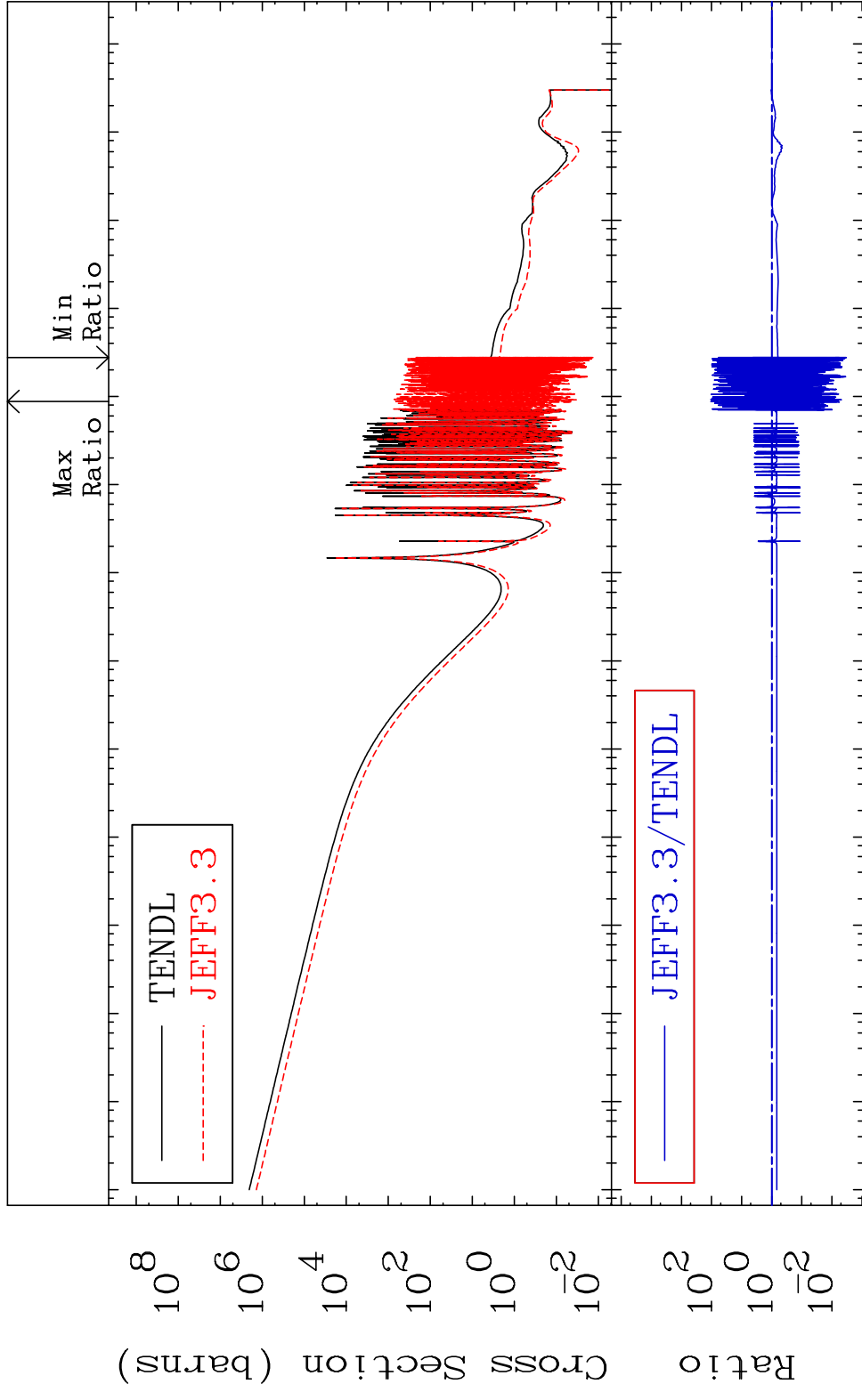
66 Incident Energy (eV) 66-Dy-164

MAT 6649 Kerma fission (mt18 or mt19-20-21-38) 66-Dy-164
 Cross Section -13.31 To 9999. %



MAT 6649

Kerma capture (mt102) 66-Dy-164
Cross Section -99.67 To 9999. %



68

Incident Energy (eV)

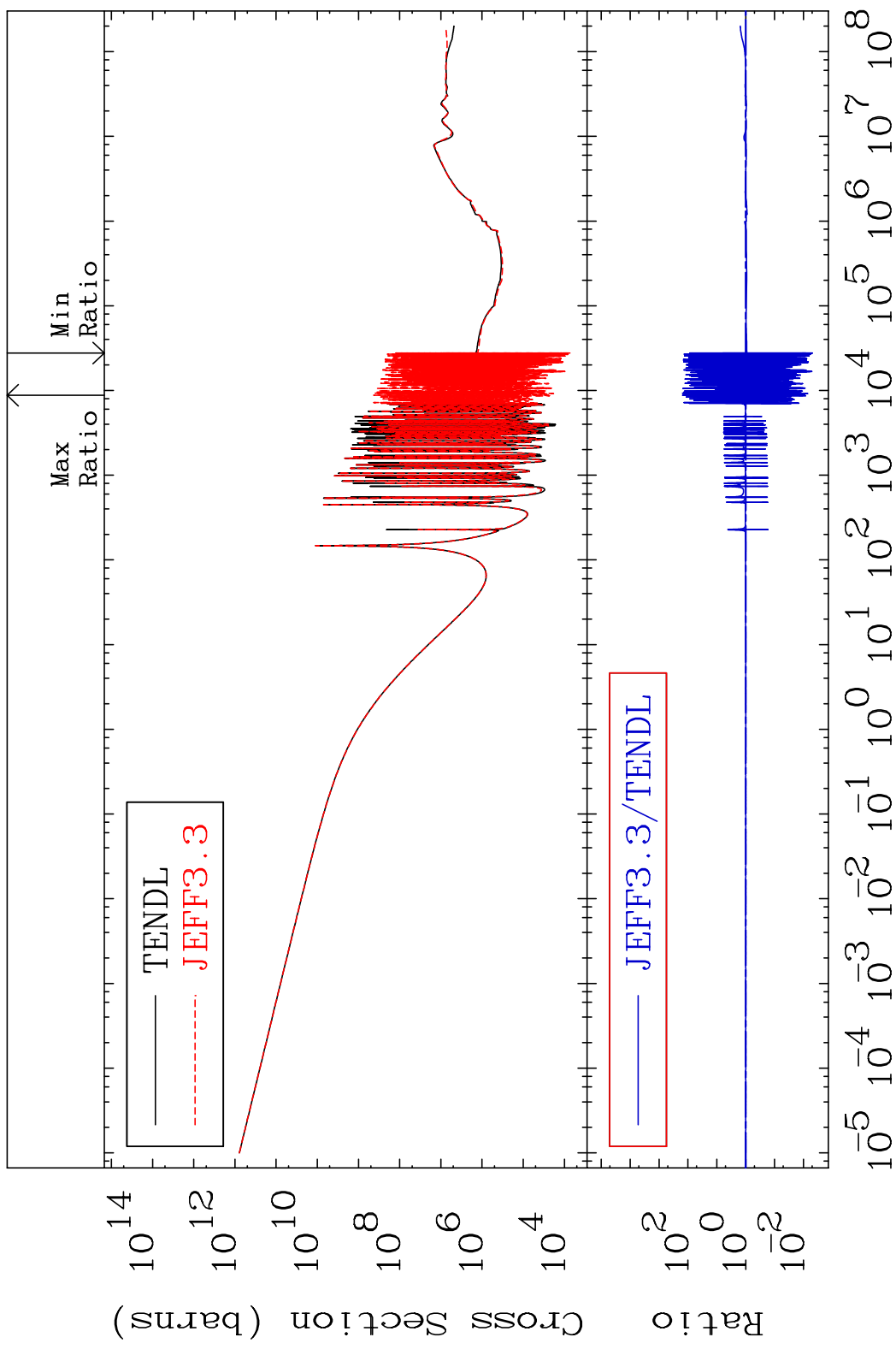
66-Dy-164

MAT 6649

Total photon (eV-barns)

66-Dy-164

Cross Section -99.52 To 9999. %

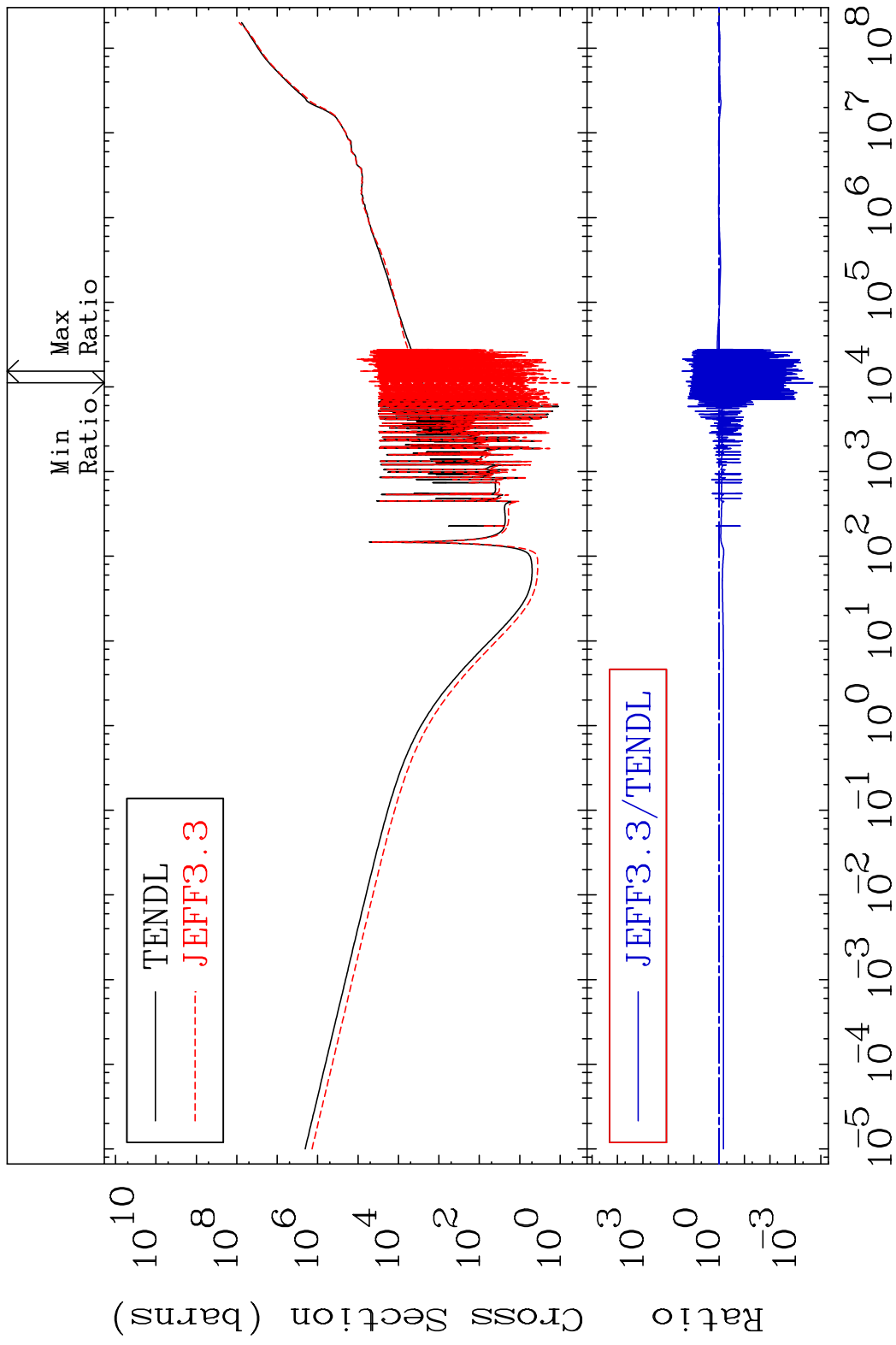


69

Incident Energy (eV)

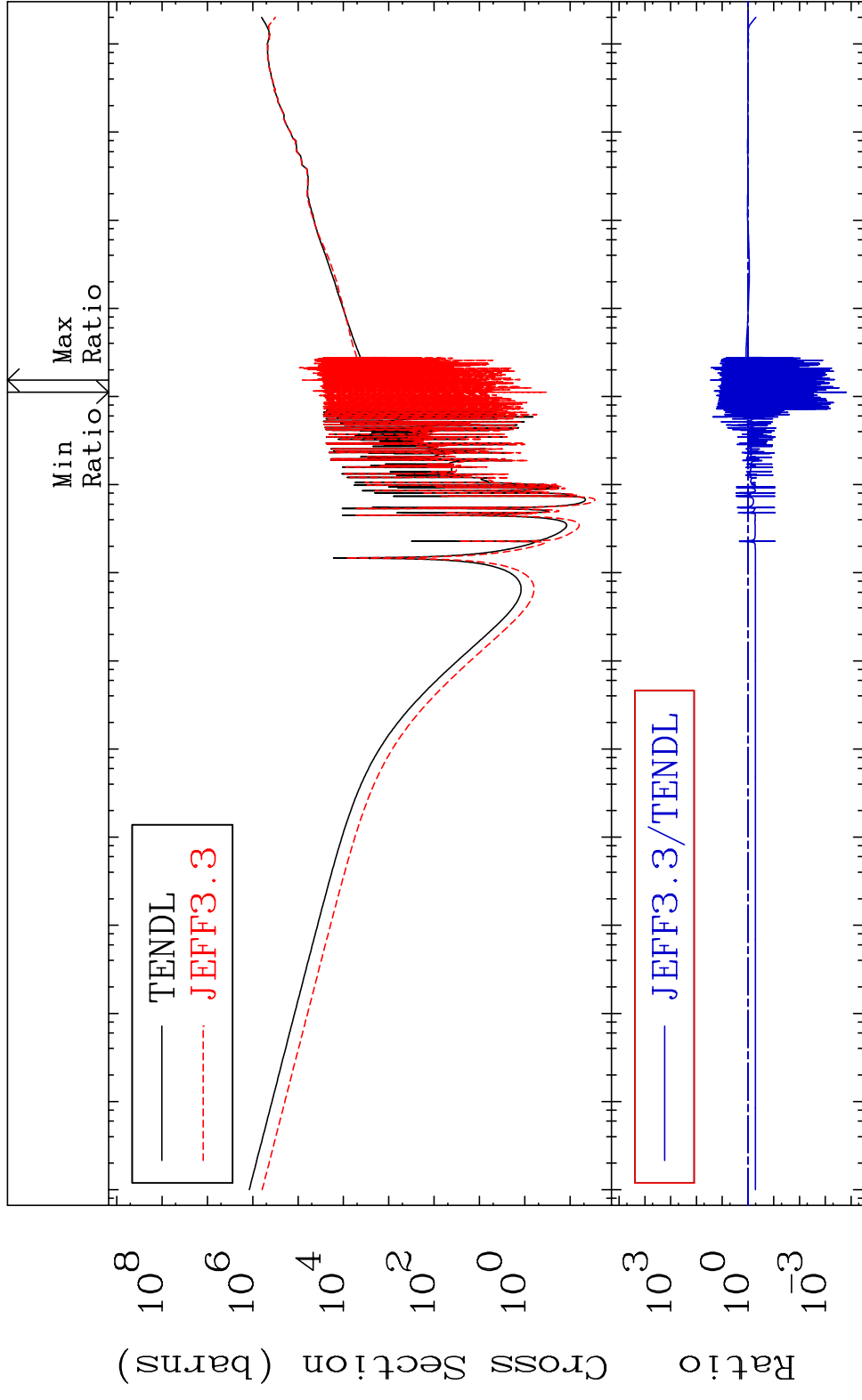
66-Dy-164

MAT 6649 Total kinematic kerma (high limit) 66-Dy-164
Cross Section -99.98 To 2693. %



70 Incident Energy (eV) 66-Dy-164

MAT 6649 Dpa total (eV-barns) 66-Dy-164
 Cross Section -99.98 To 2690. %

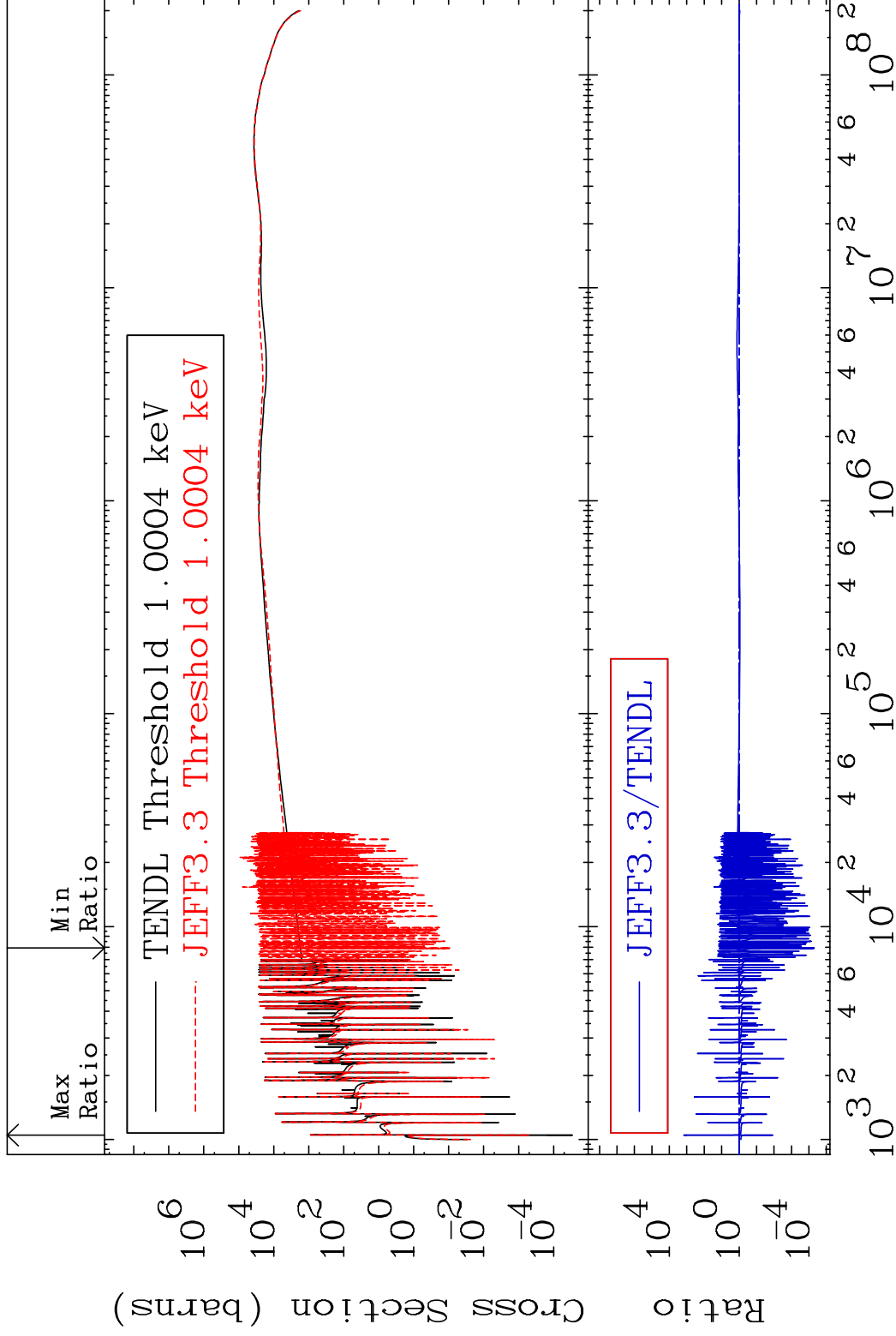


MAT 6649

Dpa elastic (mt2)

66-Dy-164

Cross Section -99.99 To 9999. %

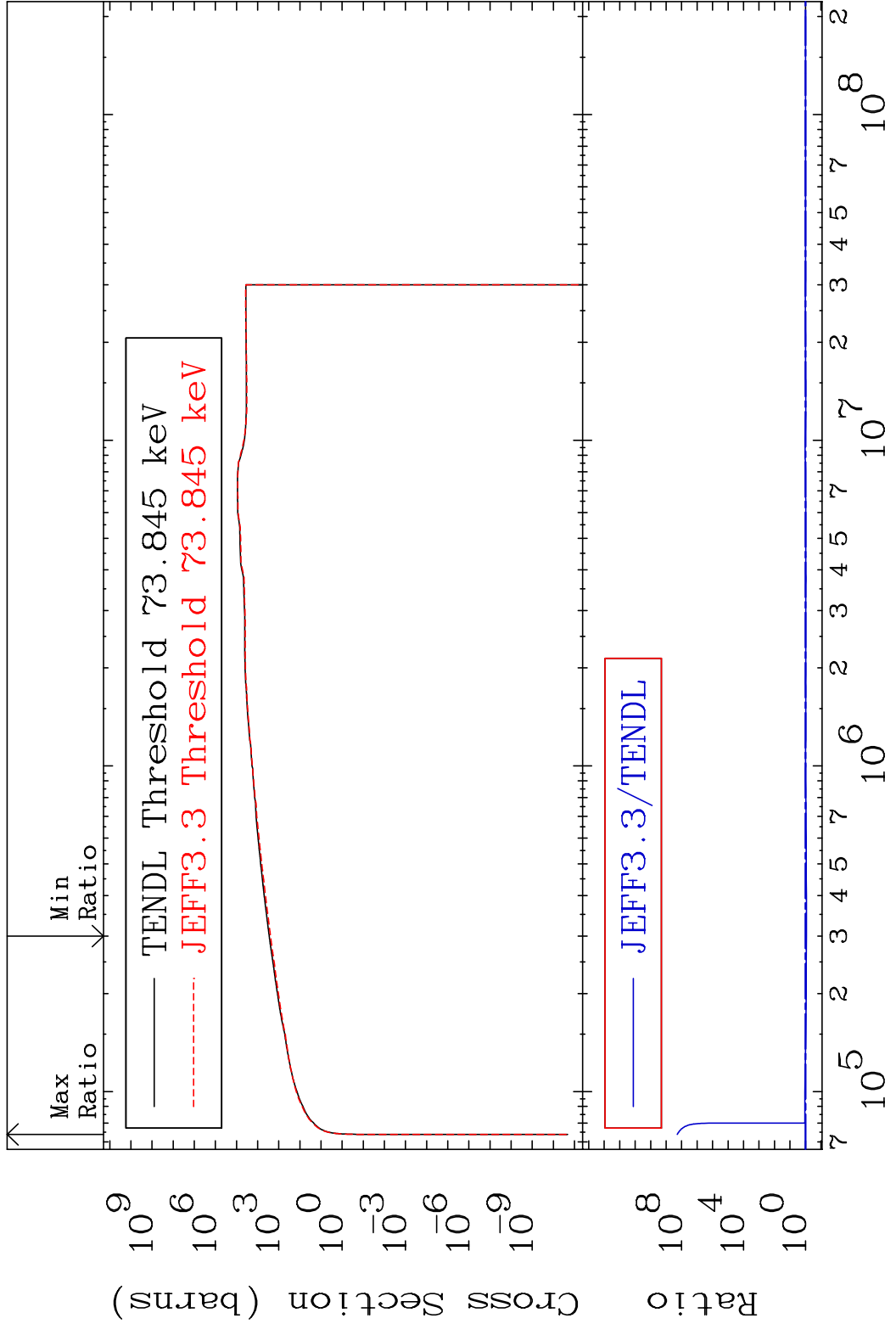


72

Incident Energy (eV)

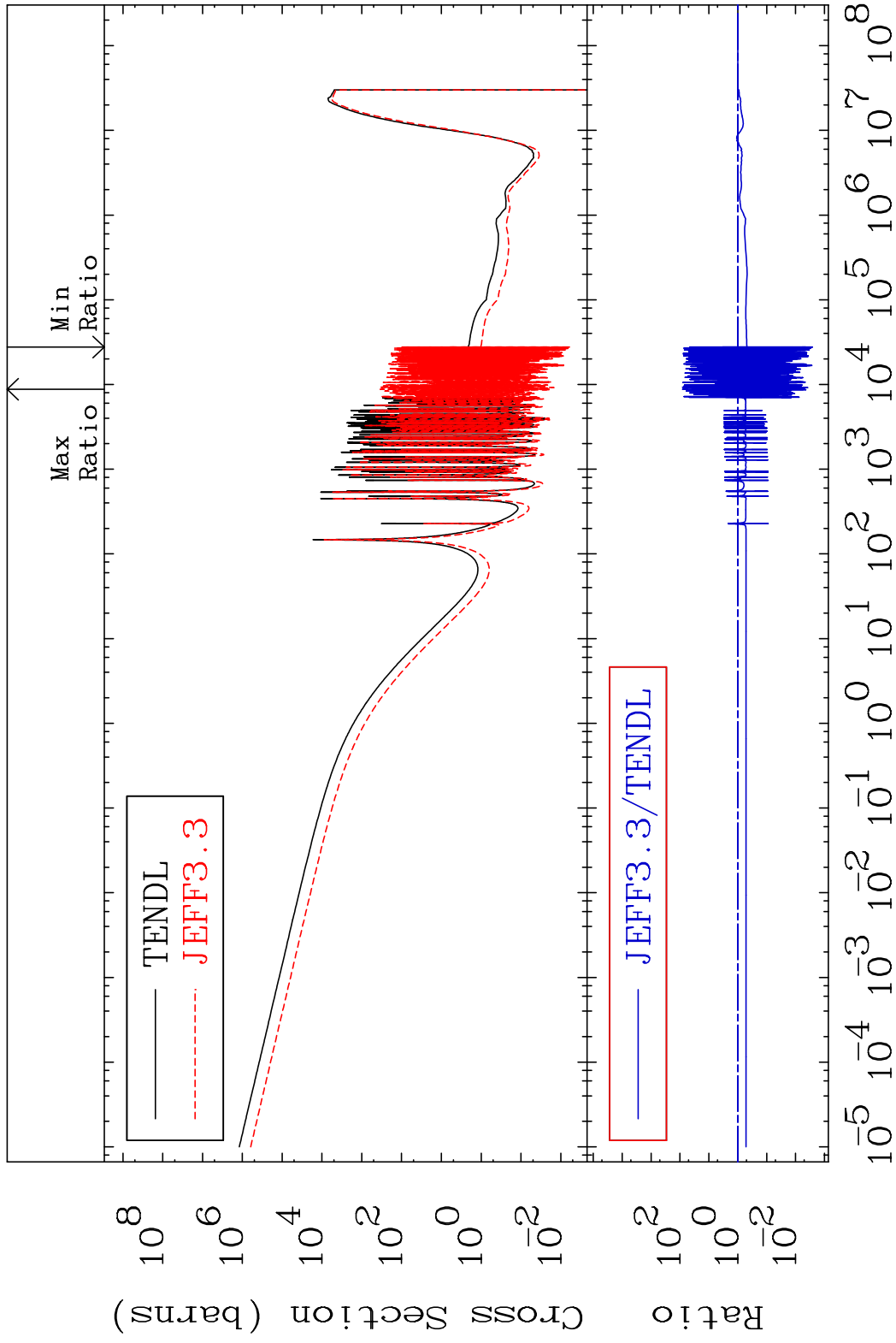
66-Dy-164

MAT 6649 Dpa inelastic (mt51-91) 66-Dy-164
 Cross Section -13.26 To 9999. %



73 Incident Energy (eV) 66-Dy-164

MAT 6649 Dpa disappearance (mt102 -120) 66-Dy-164
 Cross Section -99.74 To 8161. %



74 Incident Energy (eV) 66-Dy-164