

Program Complot
(Version 2021-1)

by

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(Present Contact Information)

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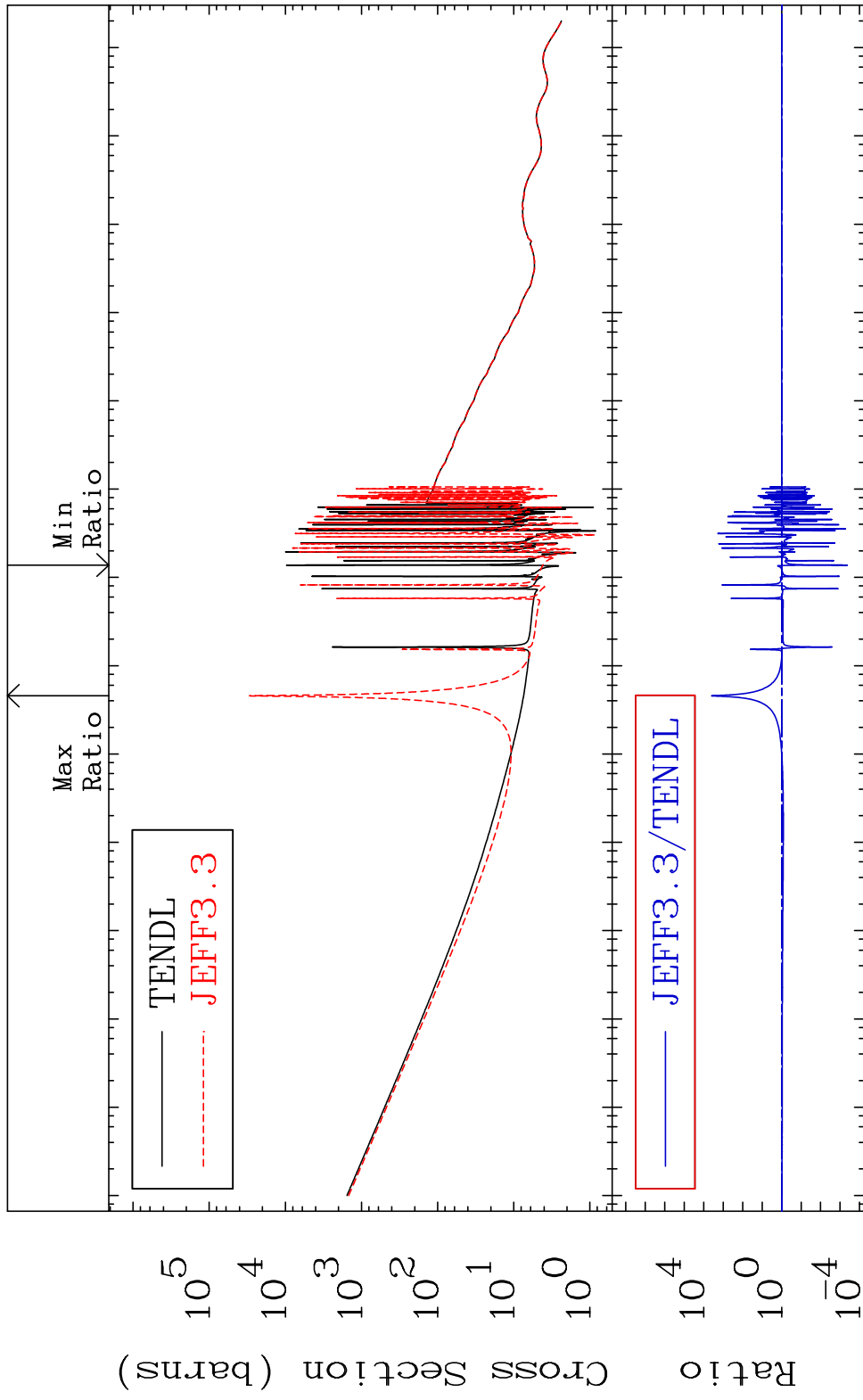
Press Mouse Button to Start

MAT 6419

Total

64-Gd-150

Cross Section -99.96 To 9999. %



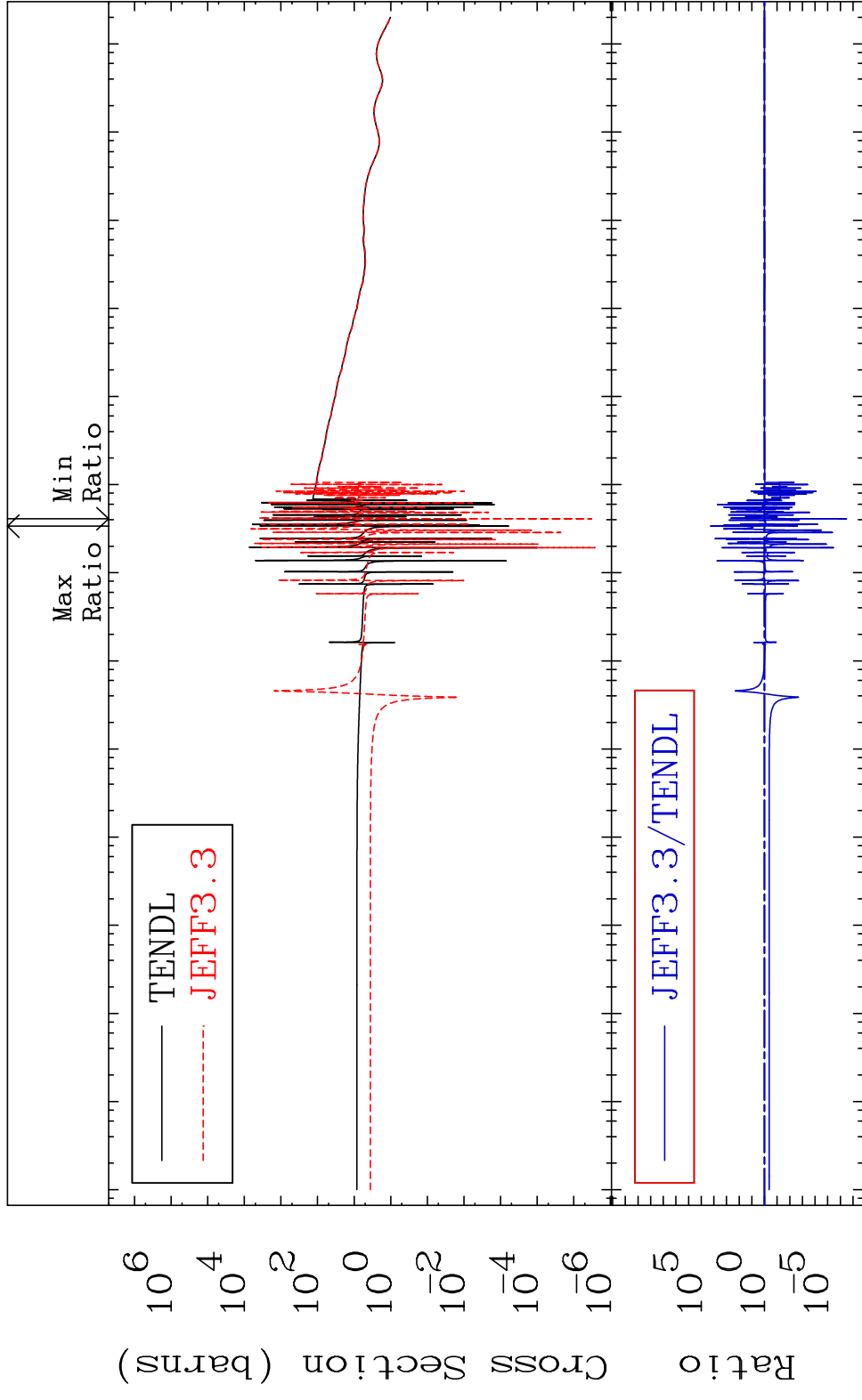
1

Incident Energy (eV)

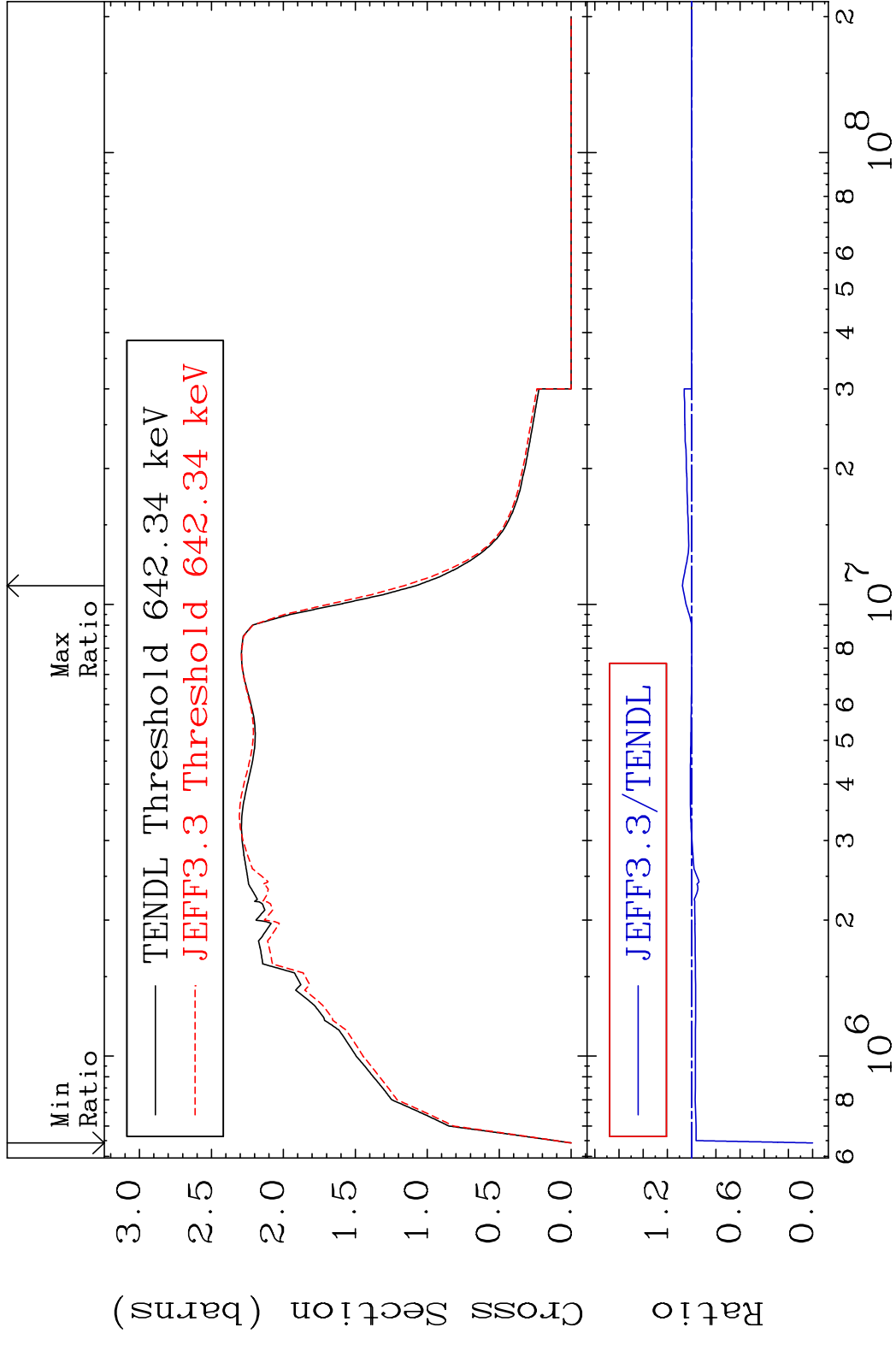
64-Gd-150

MAT 6419

Elastic Cross Section -100.0 To 9999. %
64-Gd-150



MAT 6419 Inelastic 64-Gd-150
 Cross Section -100.0 To 7.658 %



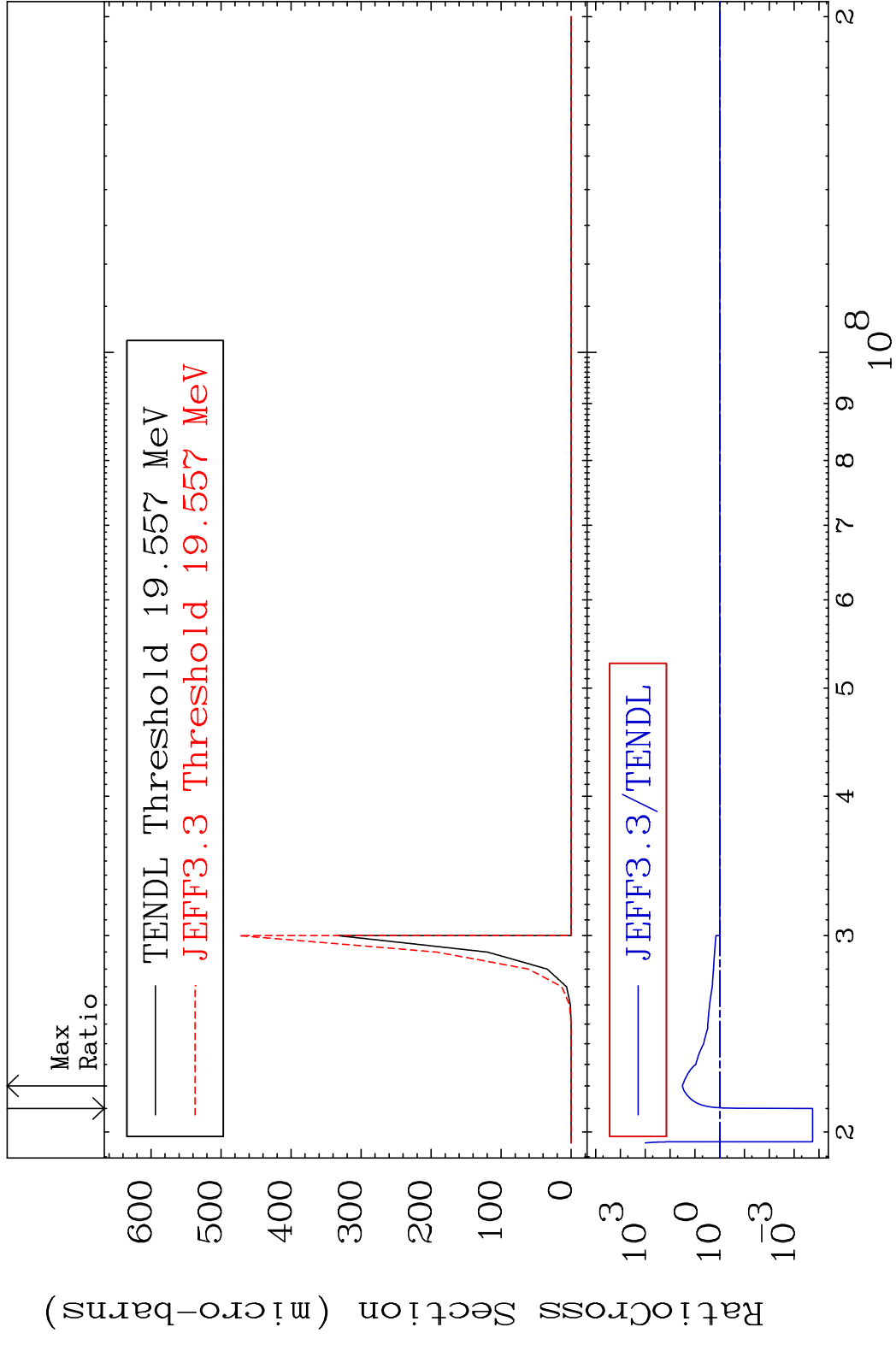
3 Incident Energy (eV) 64-Gd-150

MAT 6419

(n,2n) d

64-Gd-150

Cross Section -99.98 To 3102. %

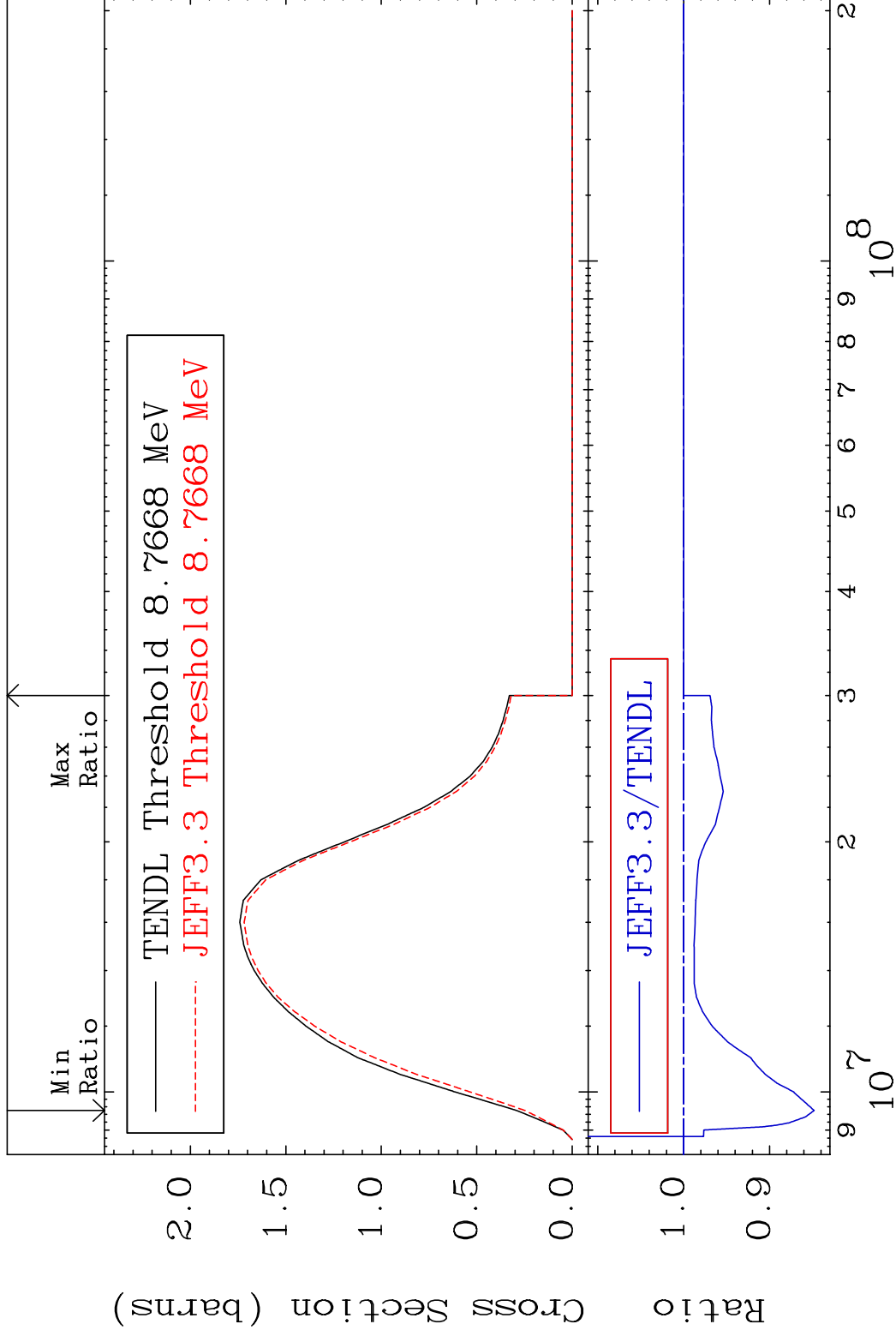


MAT 6419

(n,2n)

64-Gd-150

Cross Section -15.19 To 0.000 %



5

Incident Energy (eV)

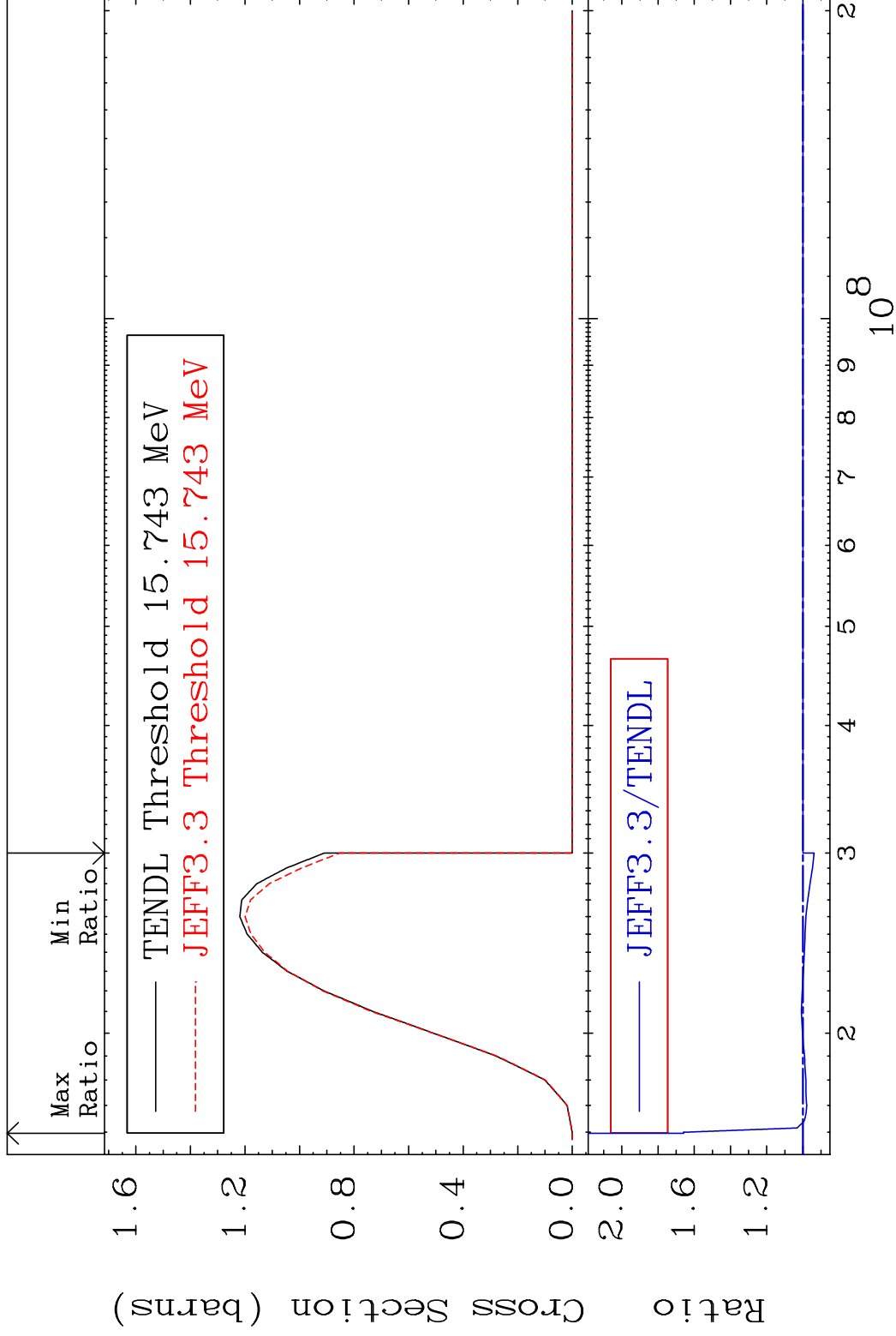
64-Gd-150

MAT 6419

(n,3n)

64-Gd-150

Cross Section -6.173 To 65.87 %



6

Incident Energy (eV)

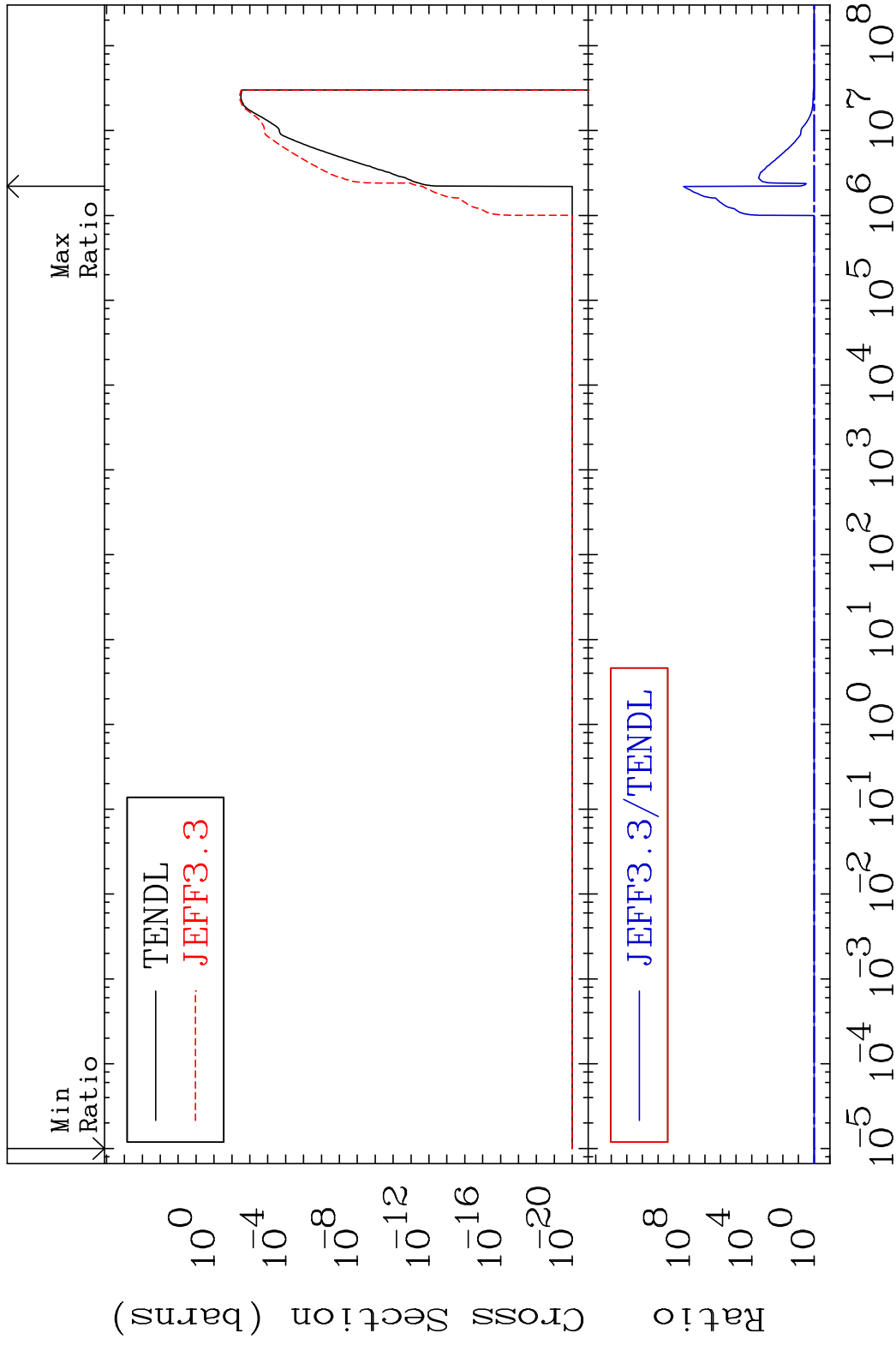
64-Gd-150

MAT 6419

(n, n') α

64-Gd-150

Cross Section 0.000 To 9999. %

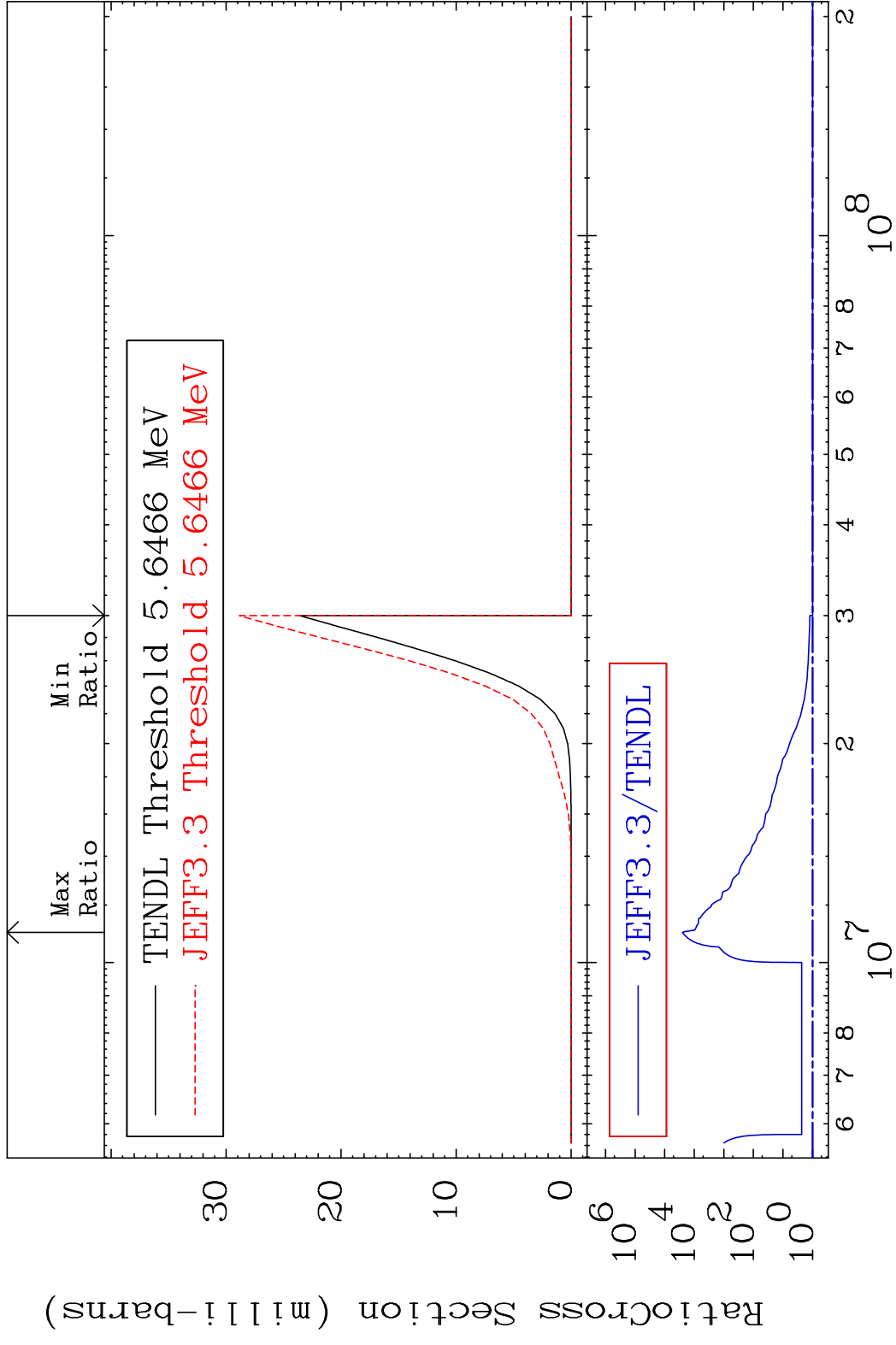


7

Incident Energy (eV)

64-Gd-150

MAT 6419 (n,2n) α 64-Gd-150
 Cross Section 0.000 To 9999. %

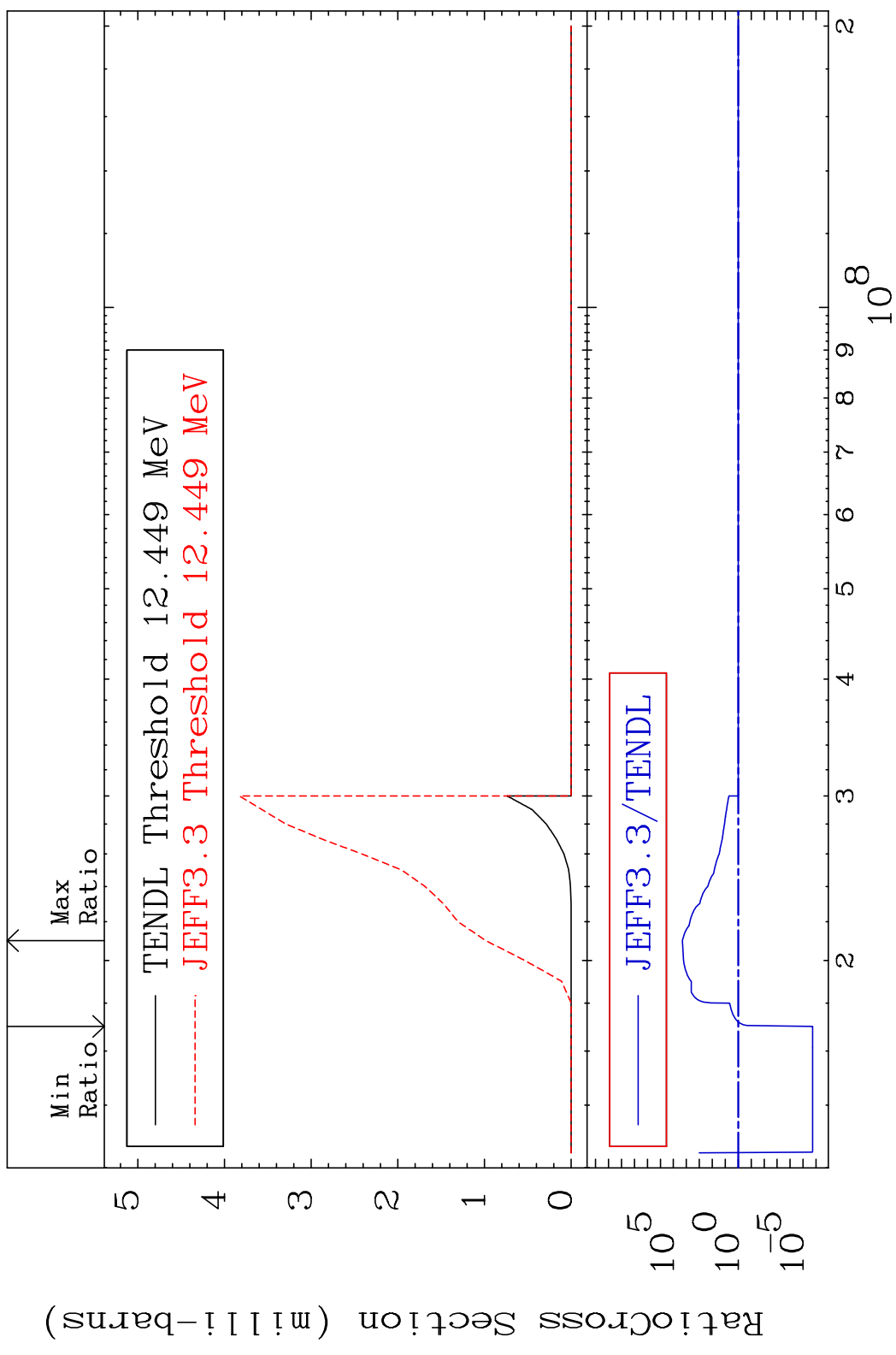


MAT 6419

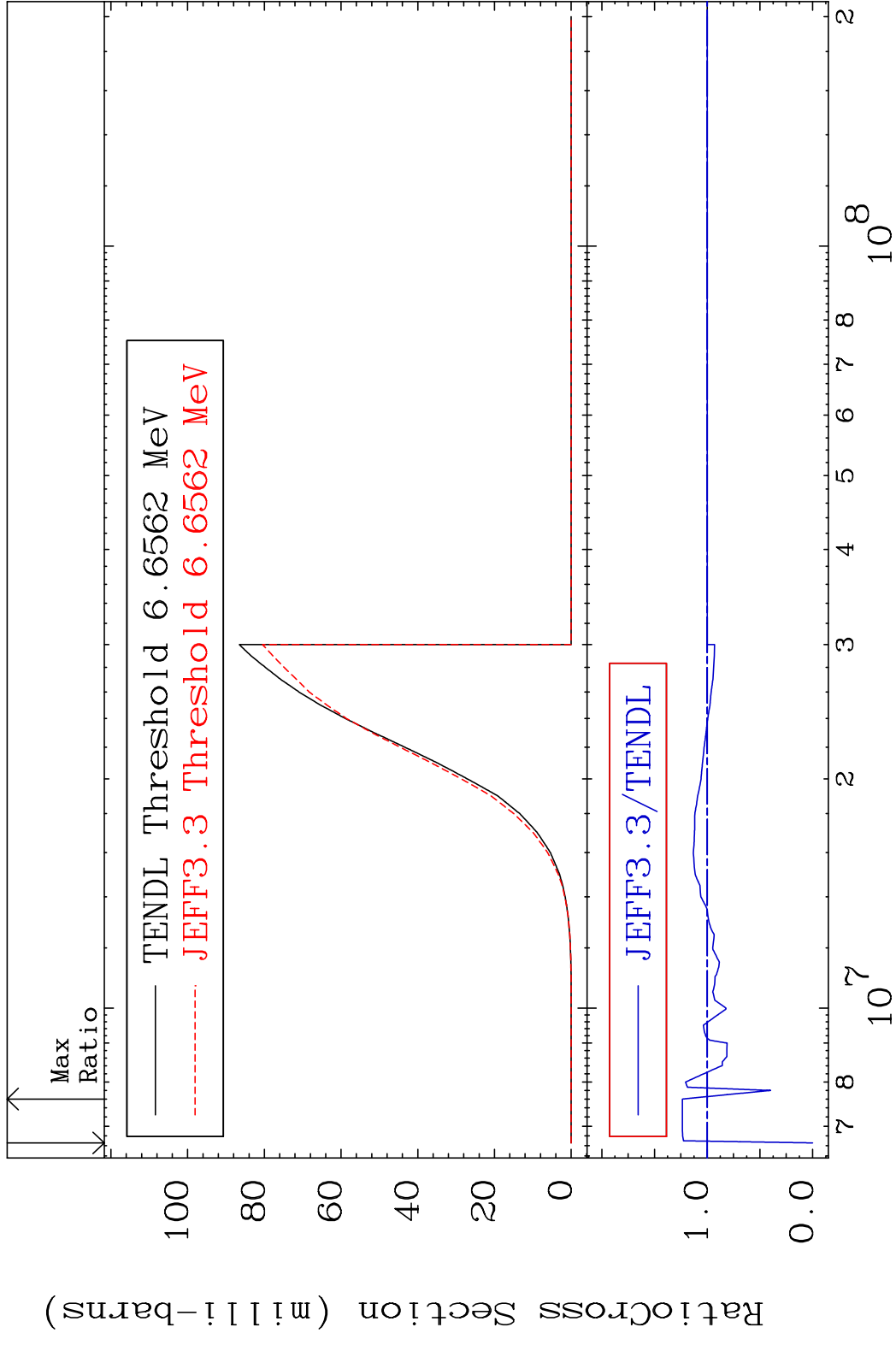
(n,3n) α

64-Gd-150

Cross Section -100.0 To 9999. %



MAT 6419 (n, n') p 64-Gd-150
 Cross Section -100.0 To 23.57 %



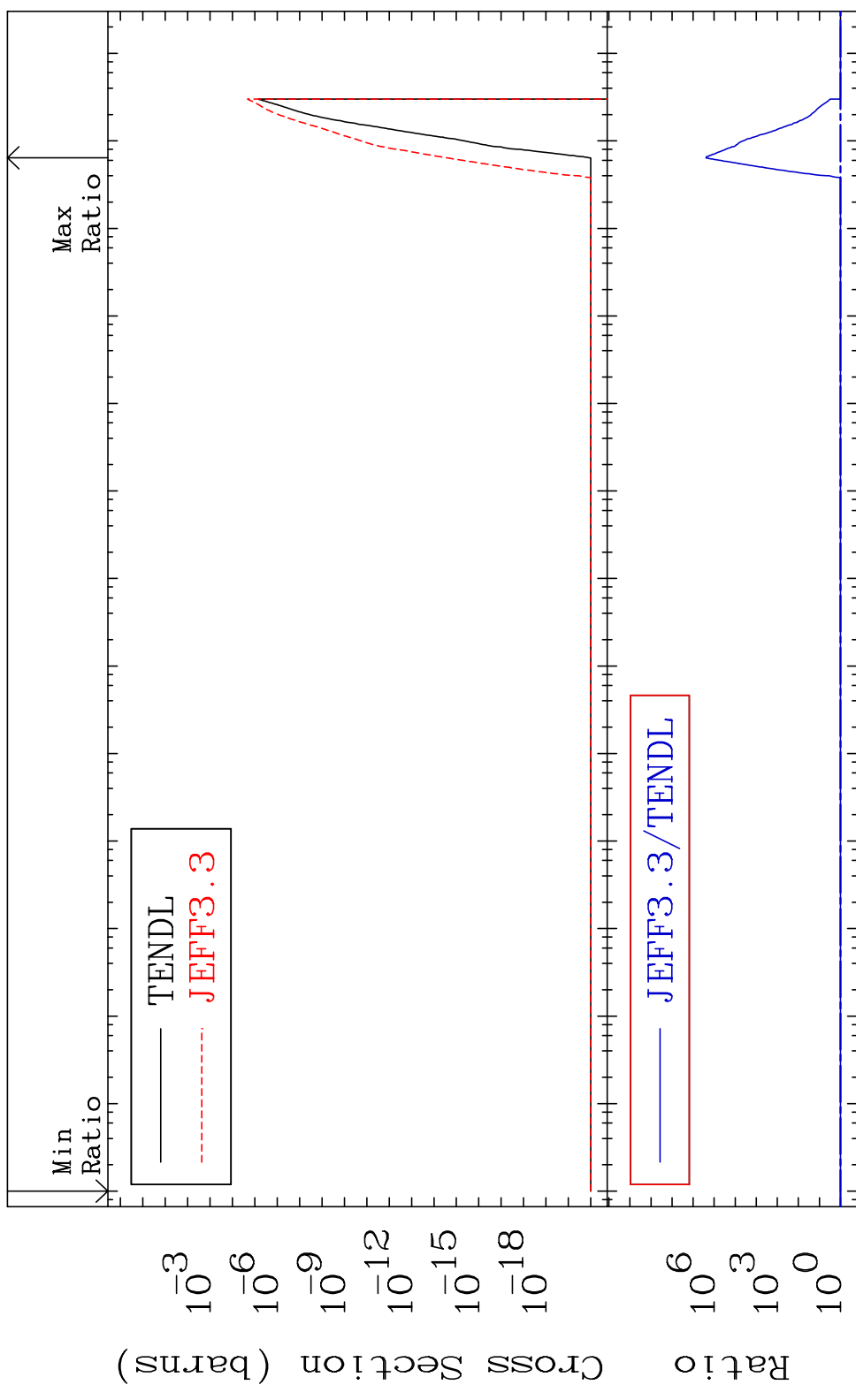
10 Incident Energy (eV) 64-Gd-150

MAT 6419

(n, n') 2α

64-Gd-150

Cross Section 0.000 To 9999. %

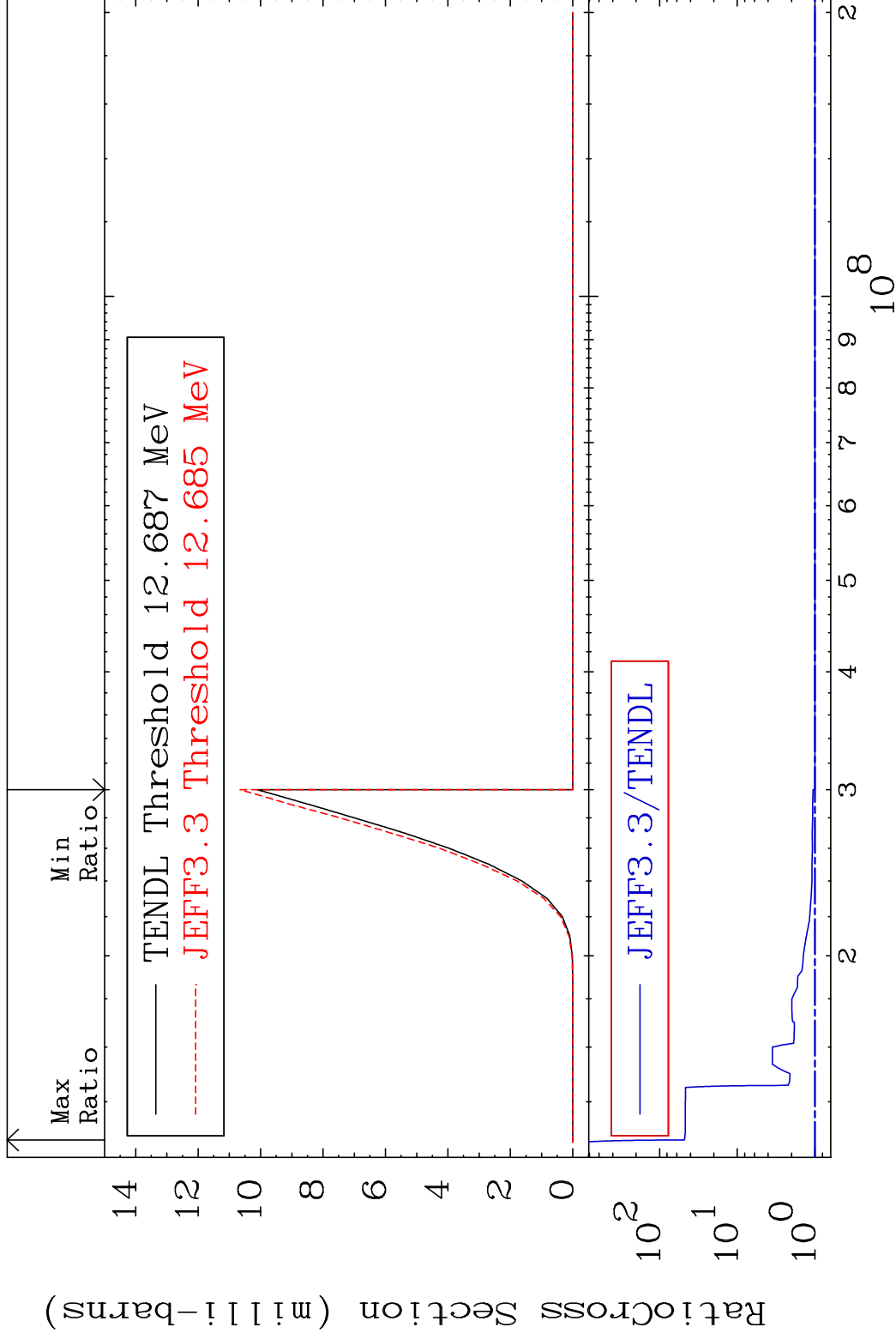


MAT 6419

(n, n') d

64-Gd-150

Cross Section 0.000 To 4699. %

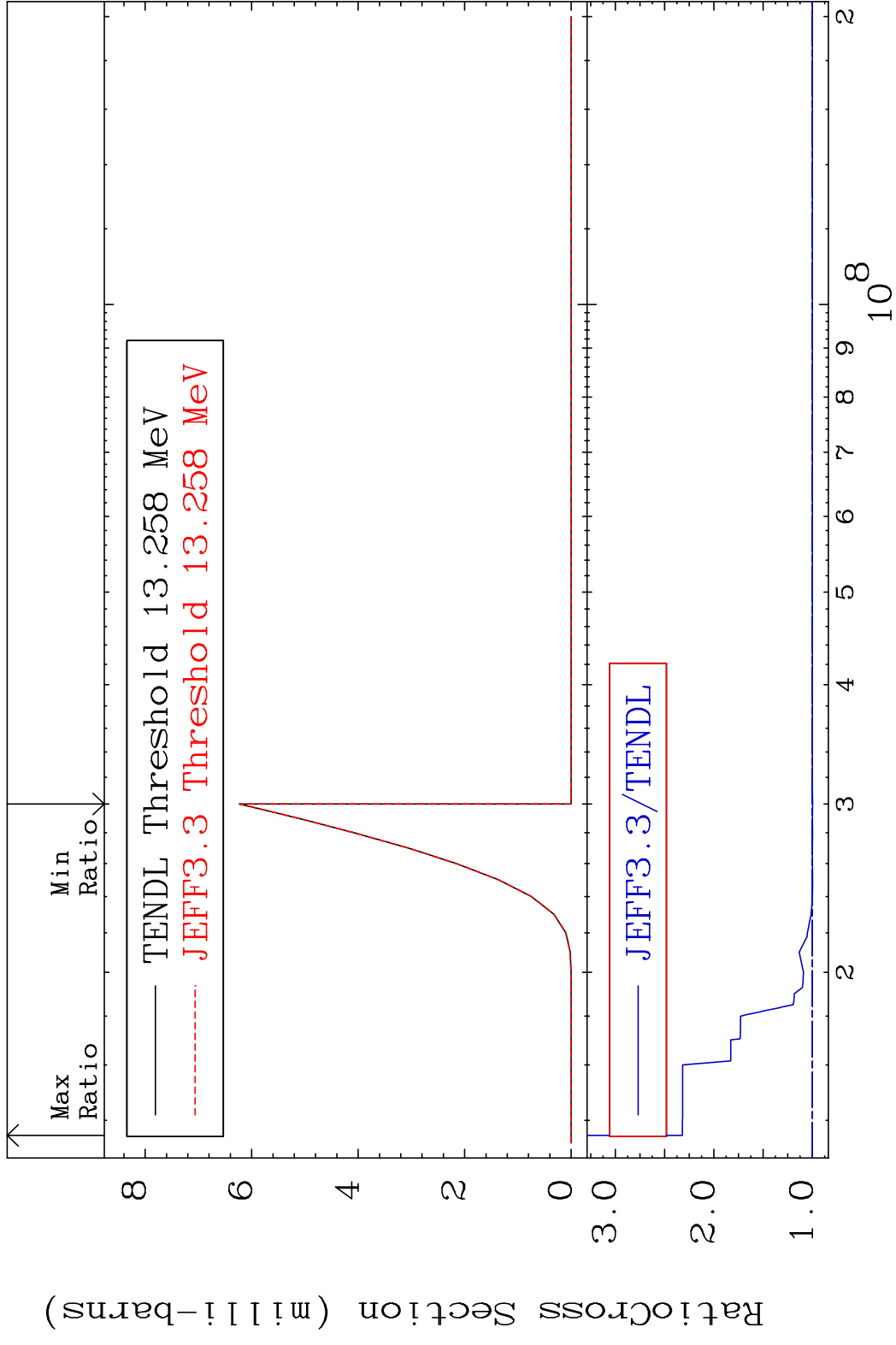


MAT 6419

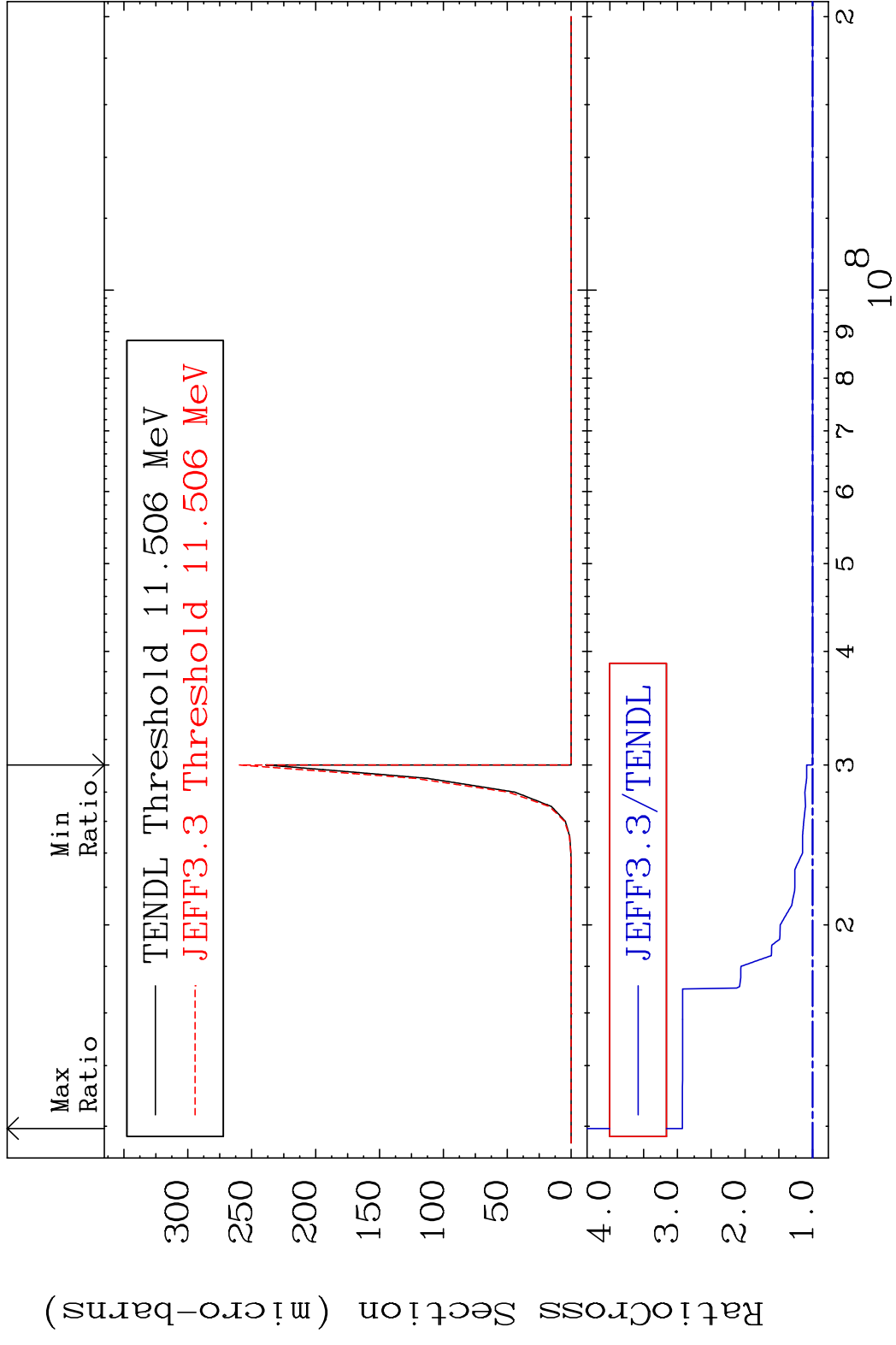
(n, n') t

64-Gd-150

Cross Section -0.163 To 132.0 %



MAT 6419 (n,n') He-3 64-Gd-150
 Cross Section 0.000 To 192.8 %

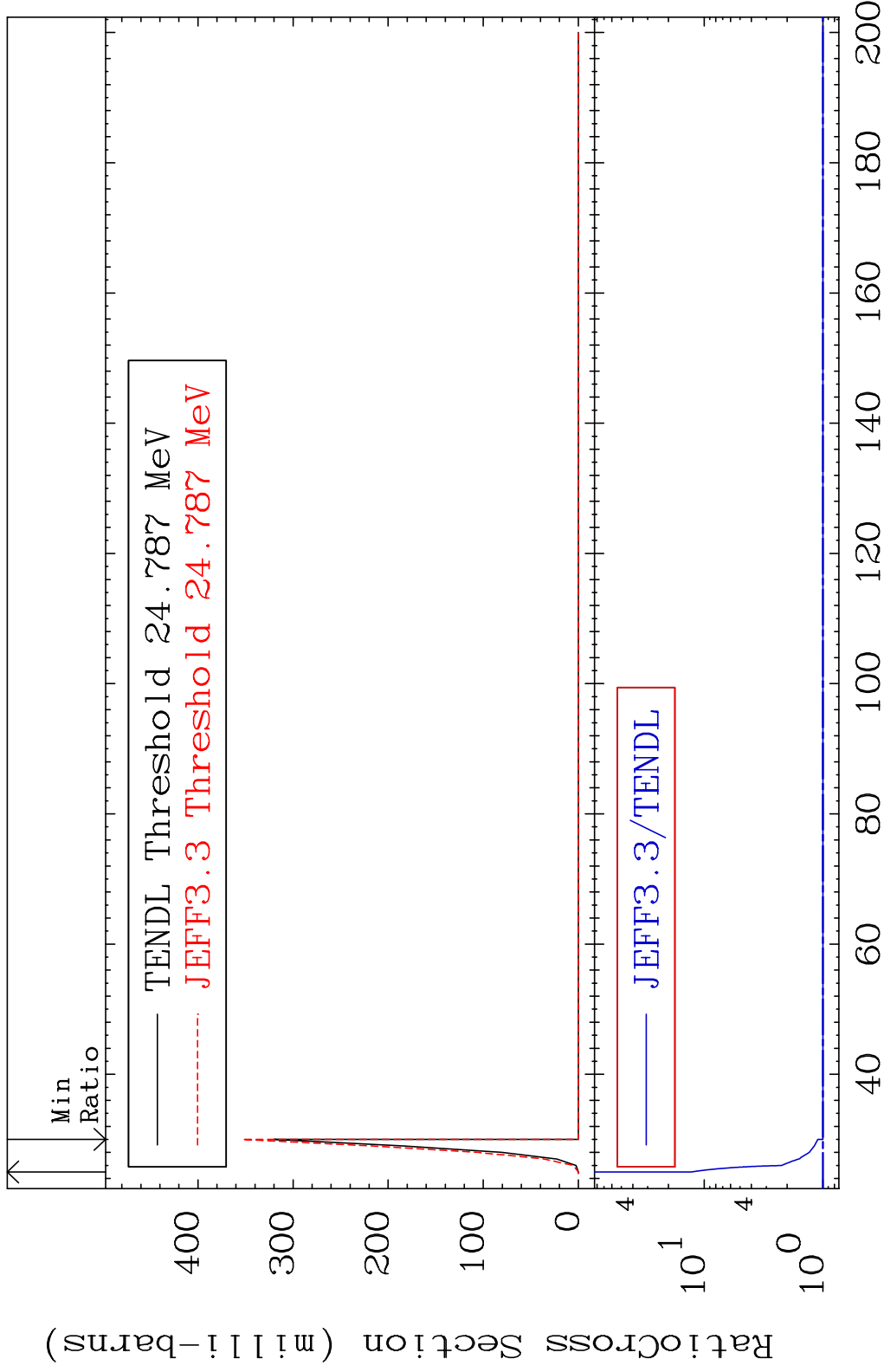


MAT 6419

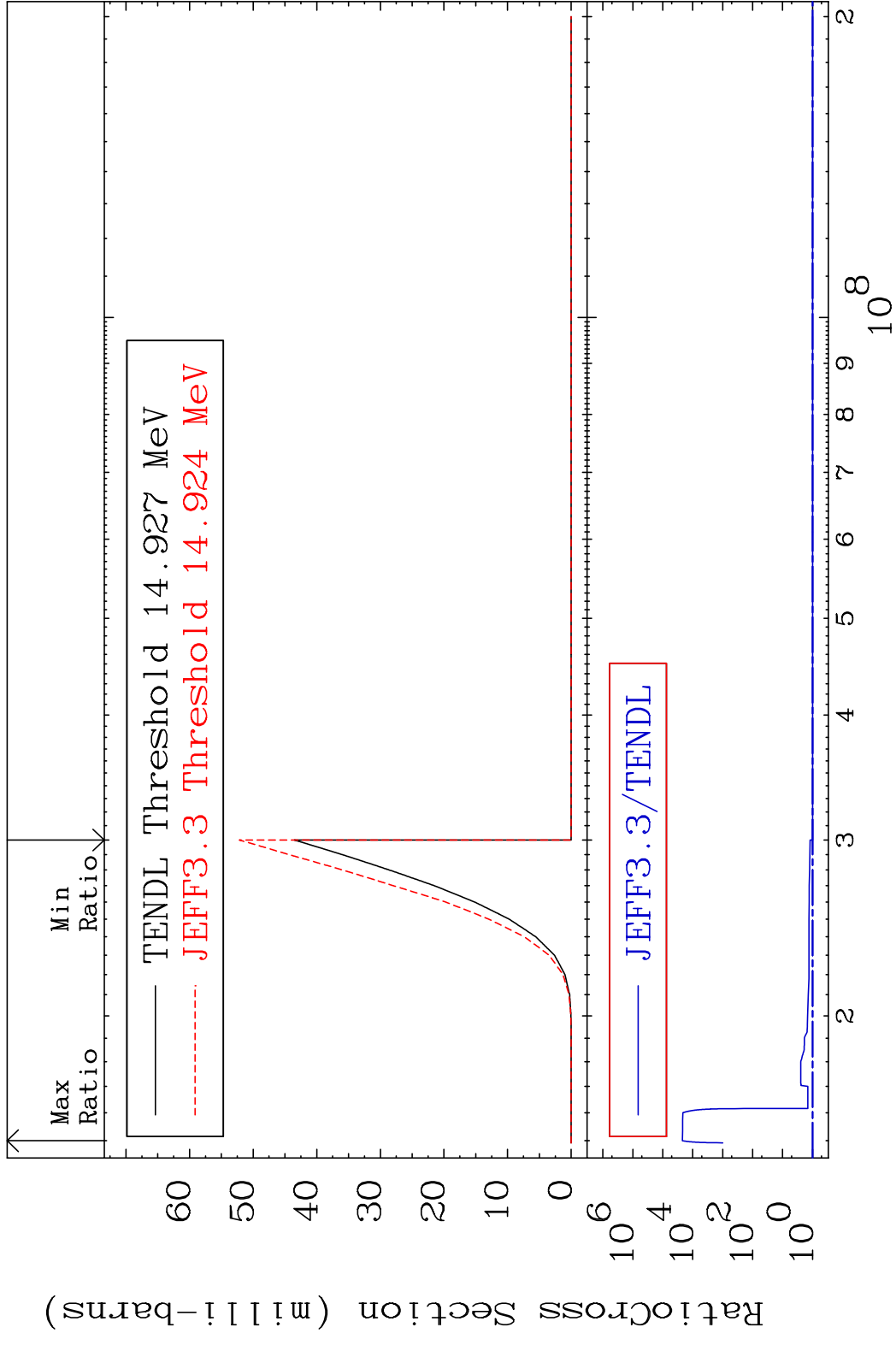
(n,4n)

64-Gd-150

Cross Section 0.000 To 1192. %



MAT 6419 (n,2n) p 64-Gd-150
 Cross Section 0.000 To 9999. %

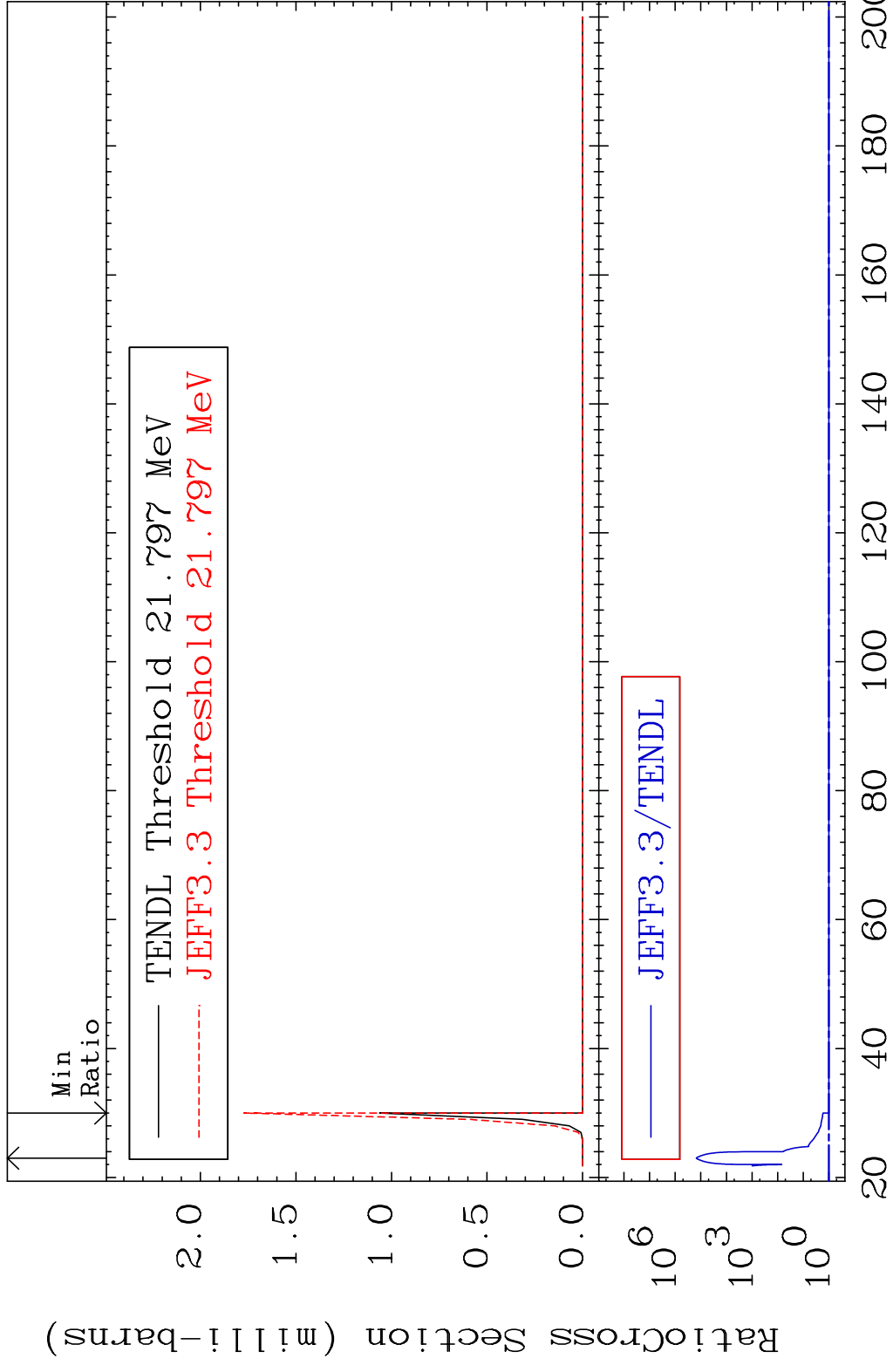


MAT 6419

(n,3n) p

64-Gd-150

Cross Section 0.000 To 9999. %



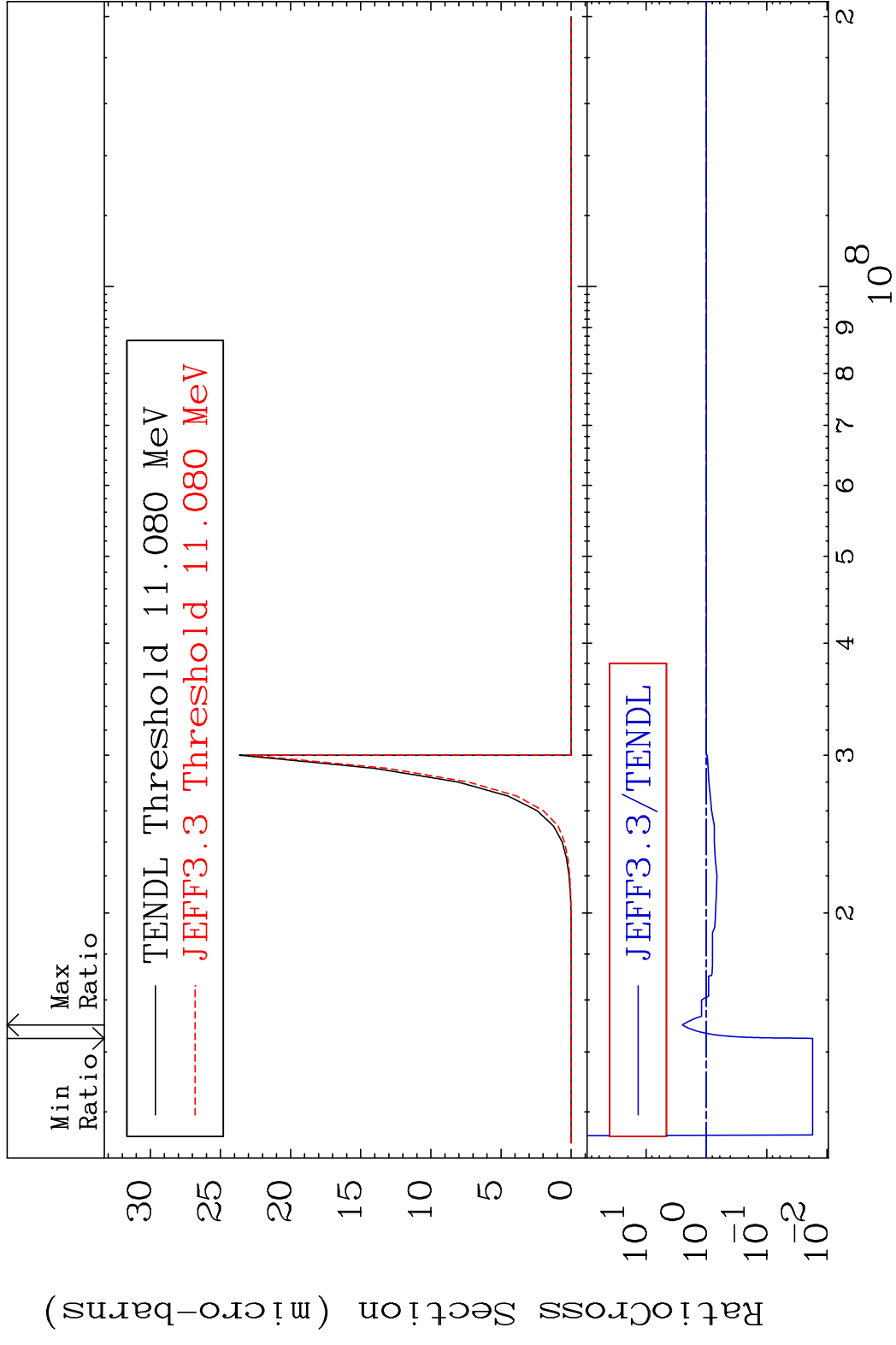
MAT 6419

(n,2n) p

64-Gd-150

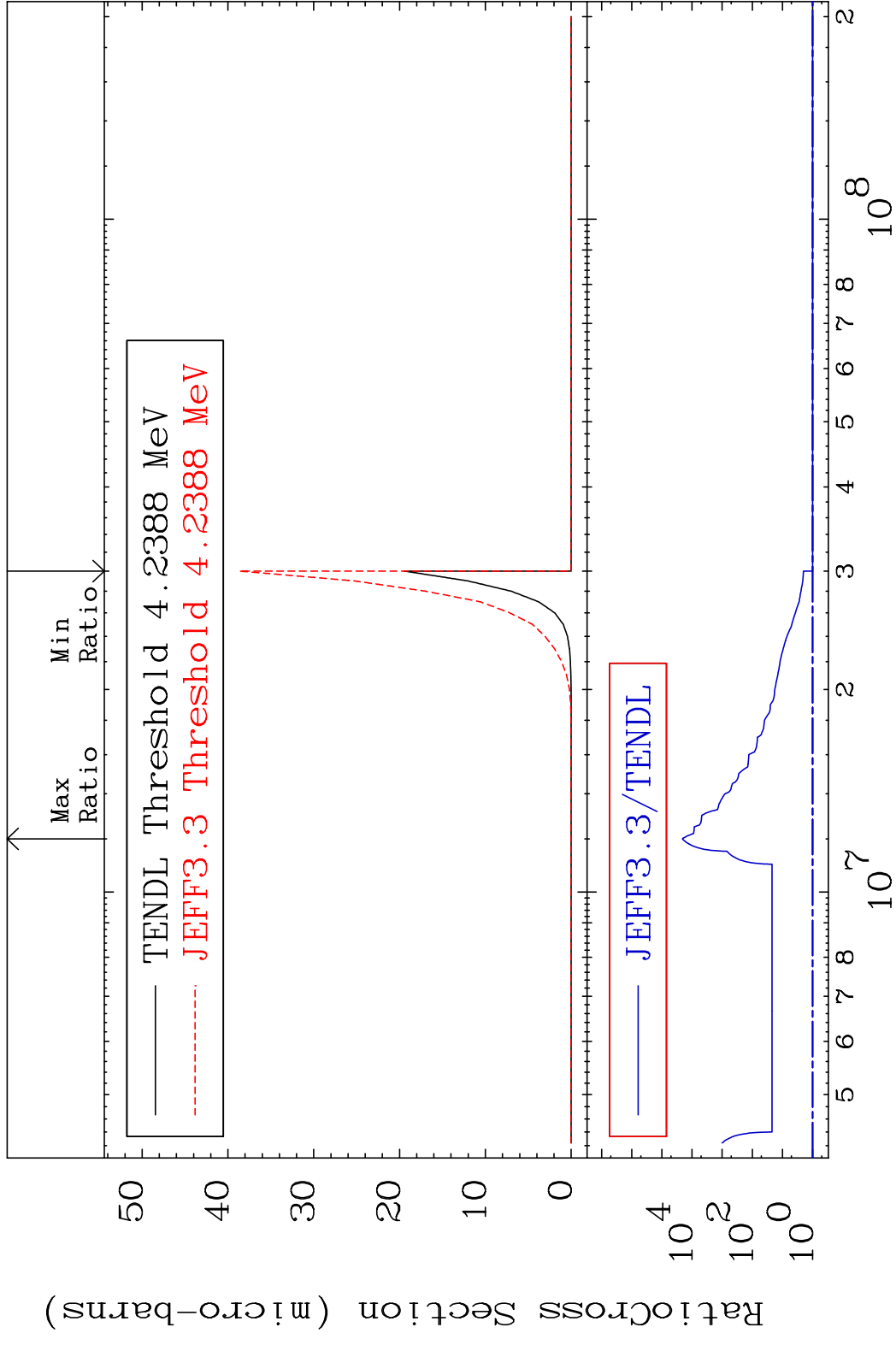
Cross Section

-98.26 To 150.0 %



MAT 6419

(n, n') p α
Cross Section 0.000 To 9999. %

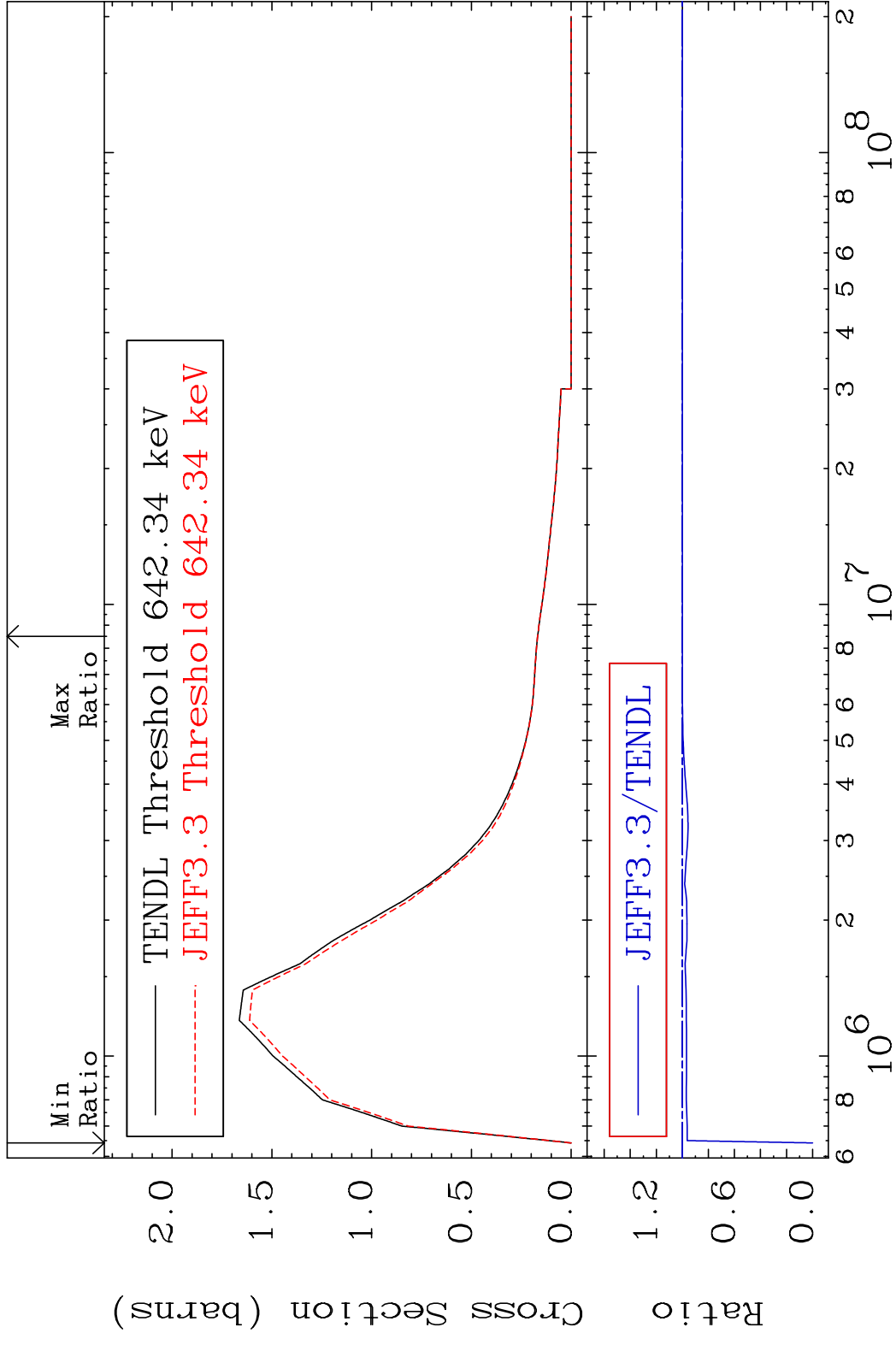


20

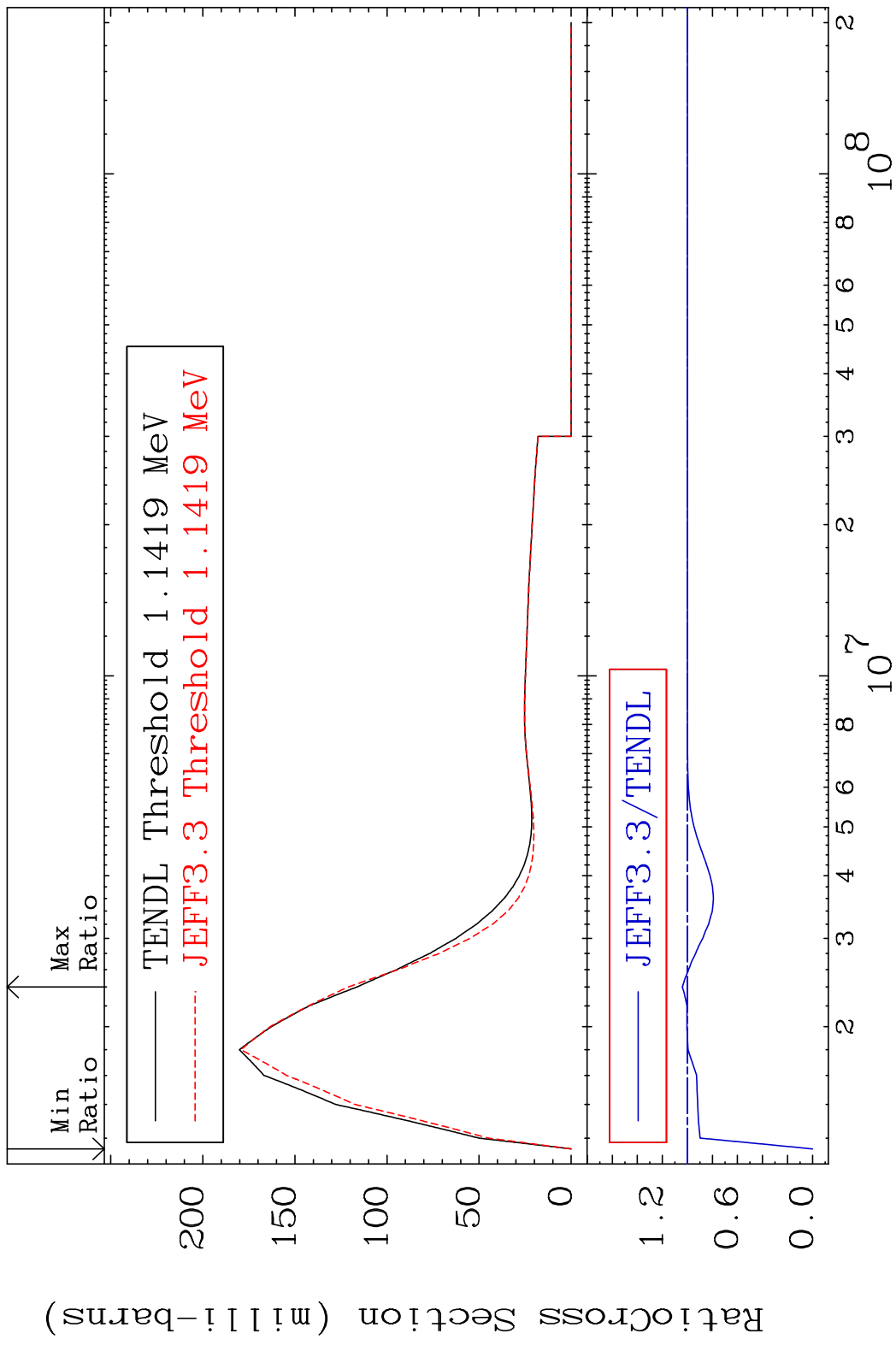
Incident Energy (eV)

64-Gd-150

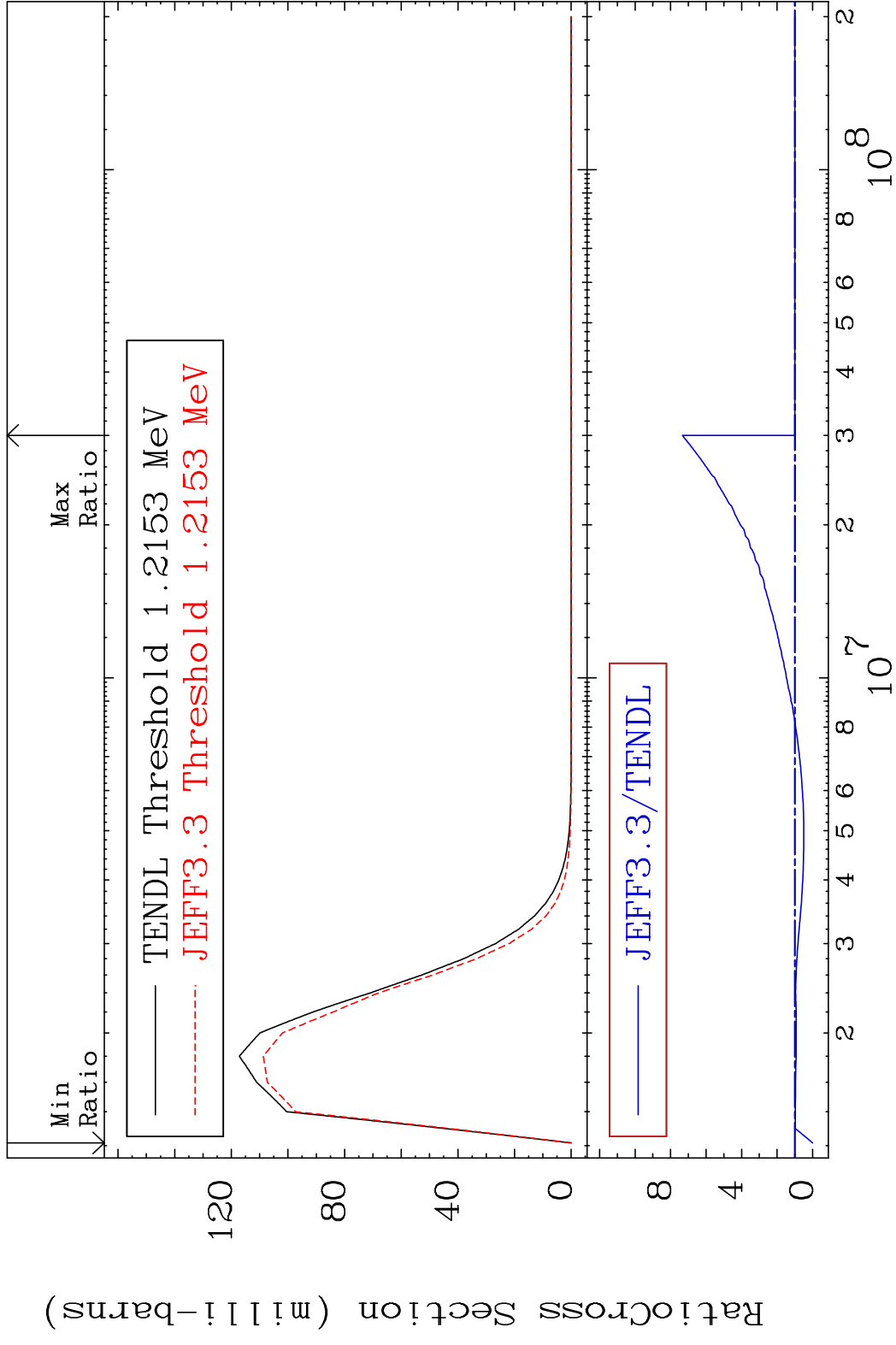
MAT 6419 MT= 51 (n, n') Level 64-Gd-150
 Cross Section -100.0 To 0.000 %



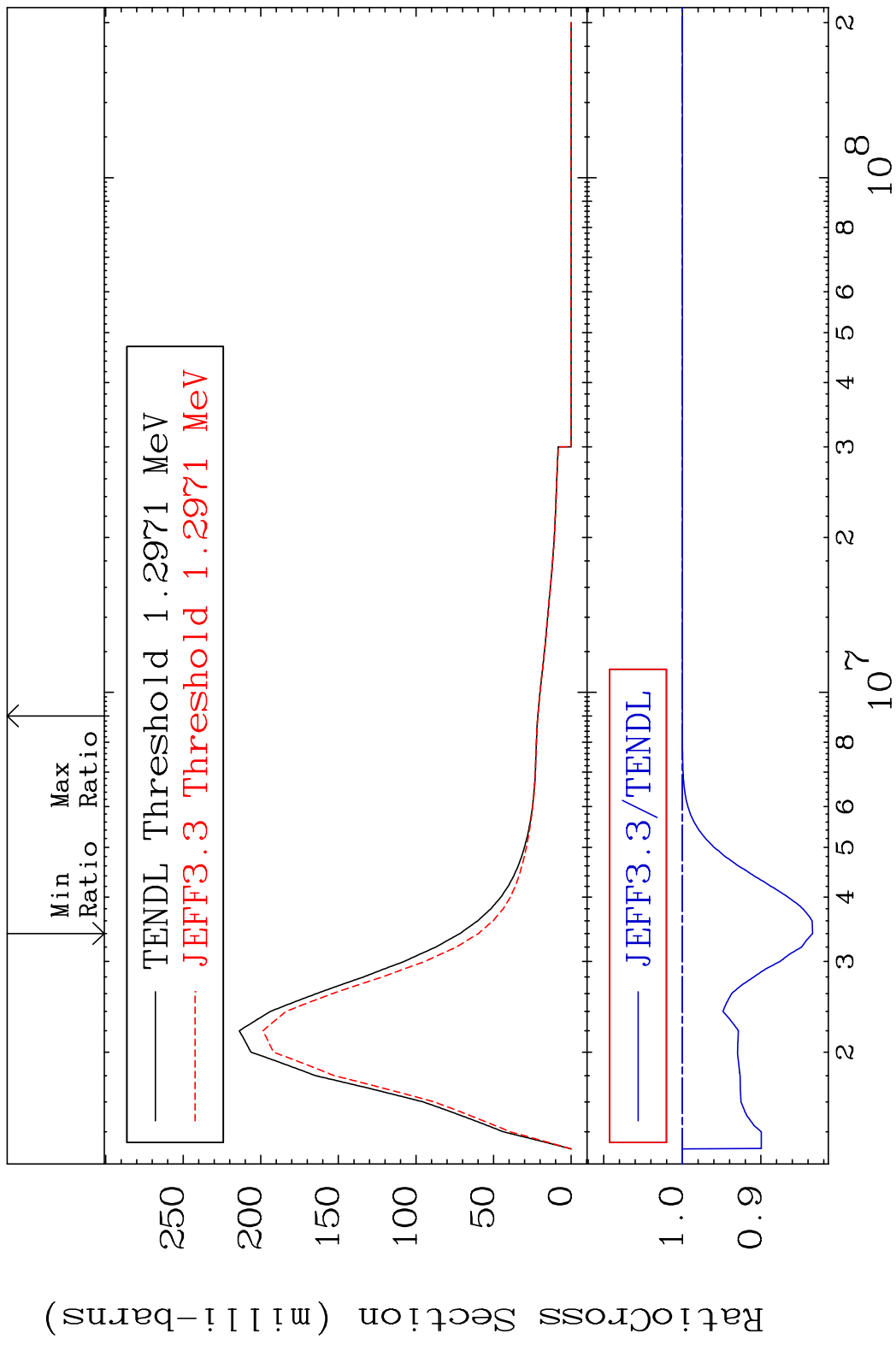
MAT 6419 MT= 52 (n,n') Level 64-Gd-150
 Cross Section -100.0 To 4.028 %



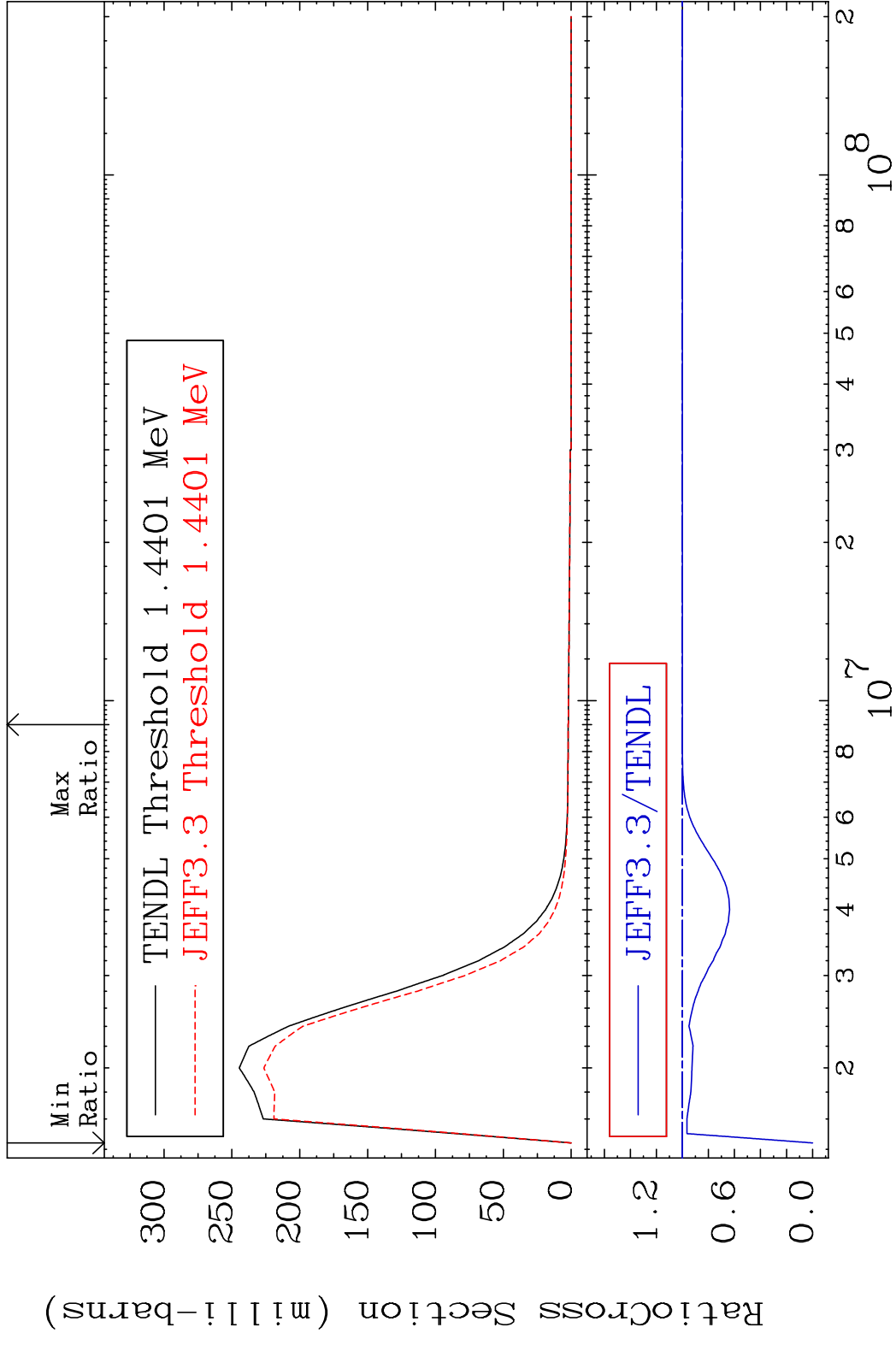
MAT 6419 MT= 53 (n, n') Level 64-Gd-150
 Cross Section -100.0 To 633.7 %



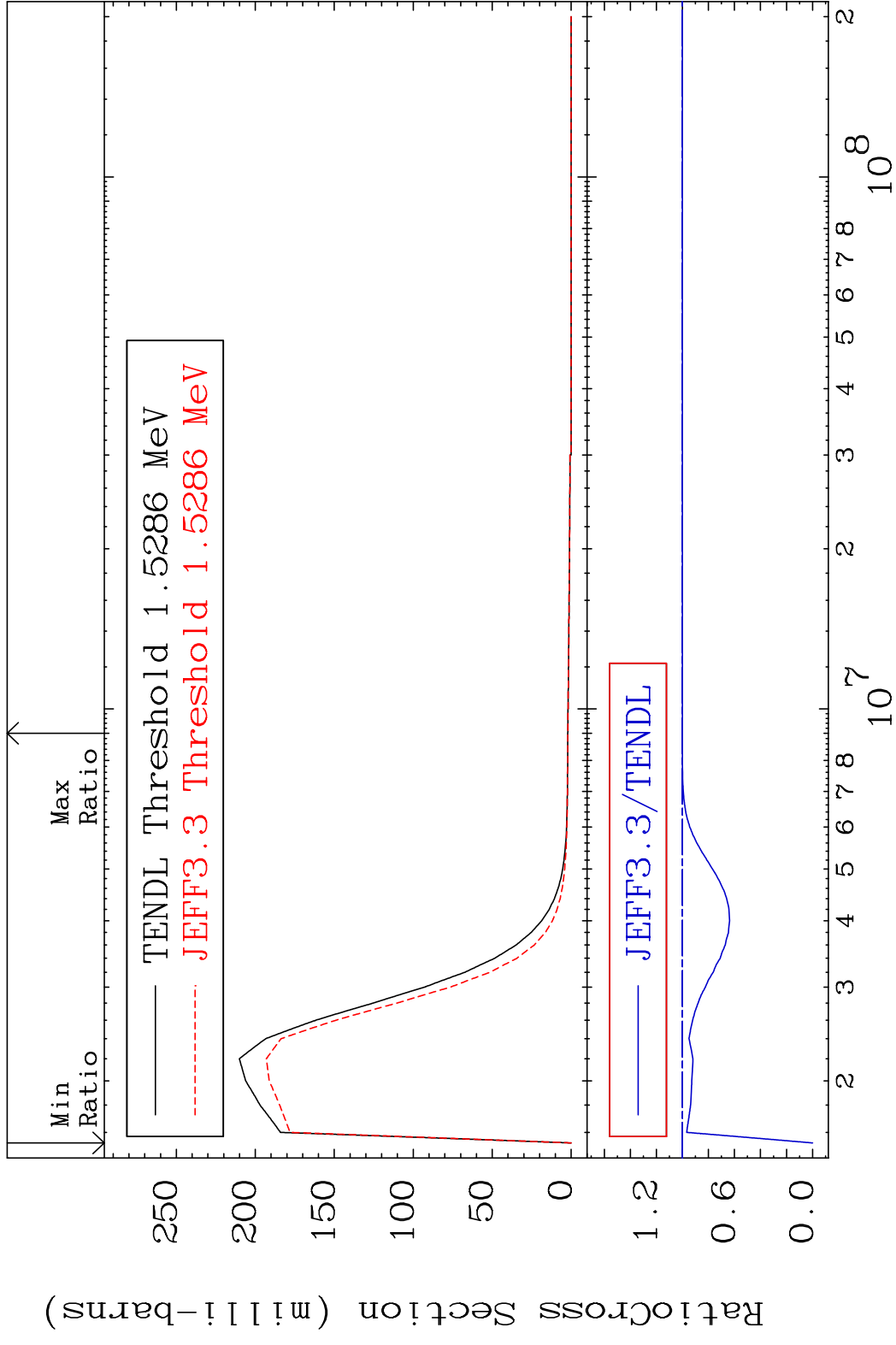
MAT 6419 MT= 54 (n,n') Level 64-Gd-150
 Cross Section -16.57 To 0.003 %



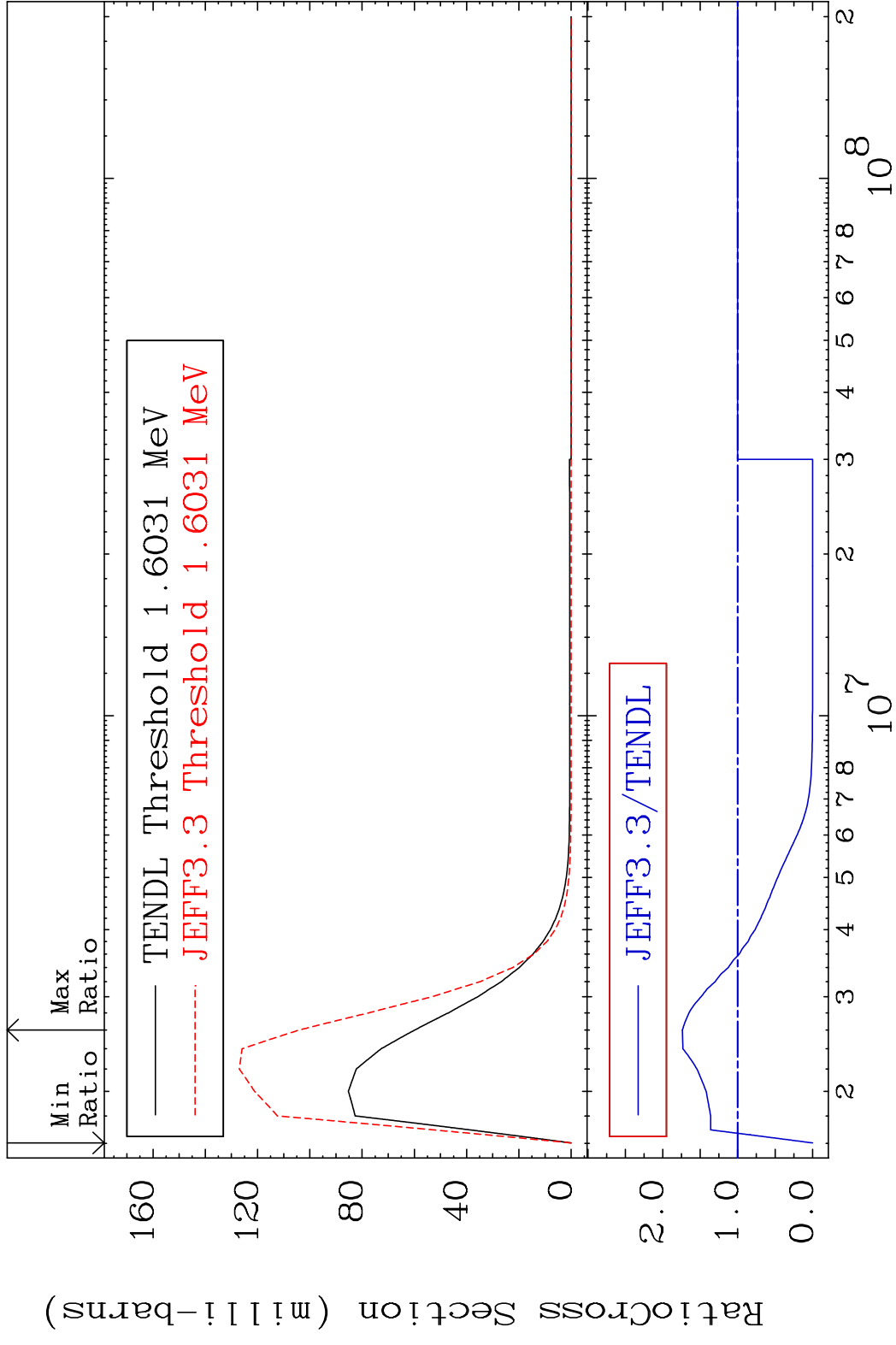
MAT 6419 MT= 55 (n,n') Level 64-Gd-150
 Cross Section -100.0 To 0.026 %



MAT 6419 MT= 56 (n,n') Level 64-Gd-150
 Cross Section -100.0 To 0.026 %



MAT 6419 MT= 57 (n,n') Level 64-Gd-150
 Cross Section -100.0 To 73.87 %

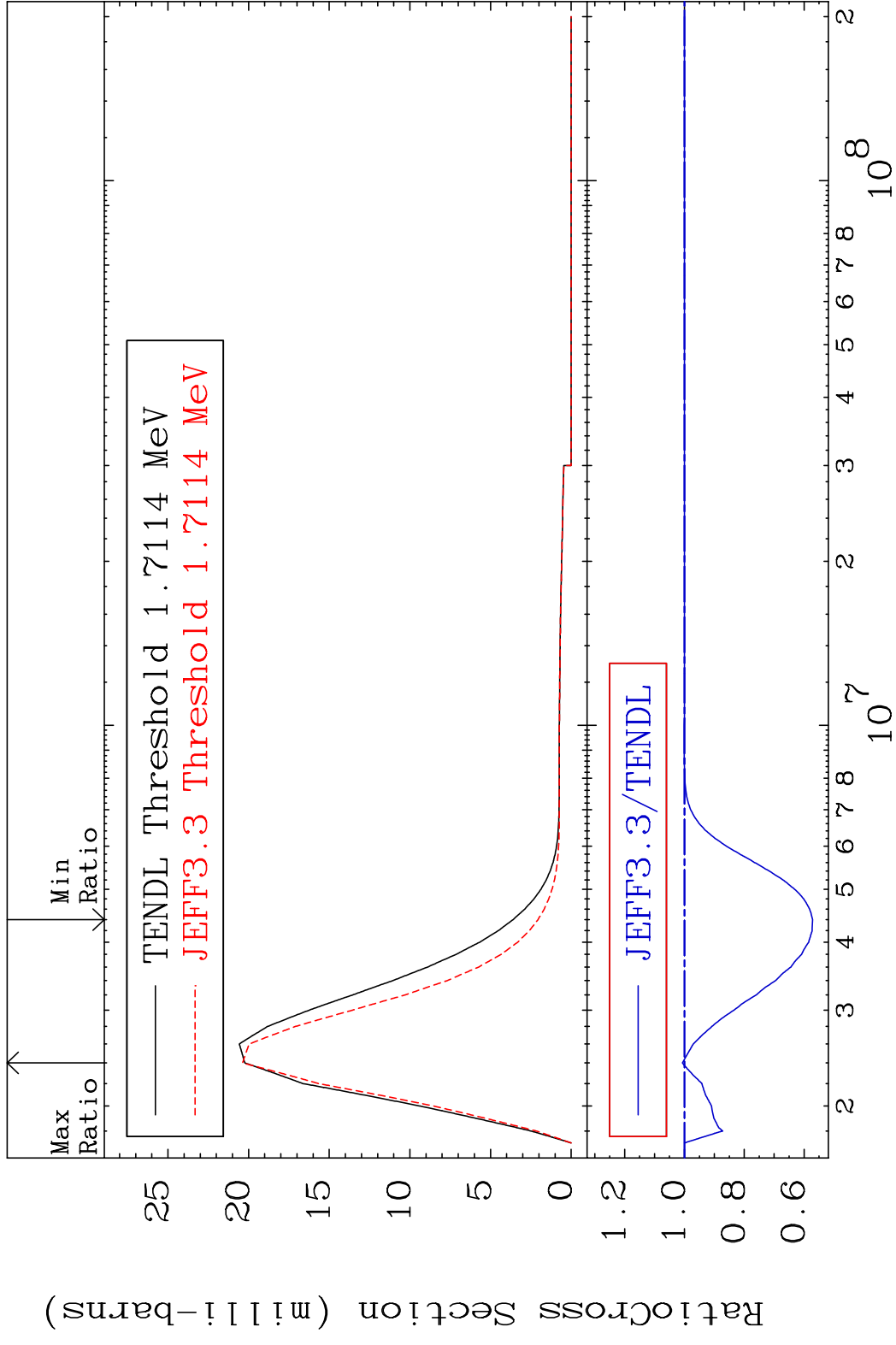


MAT 6419

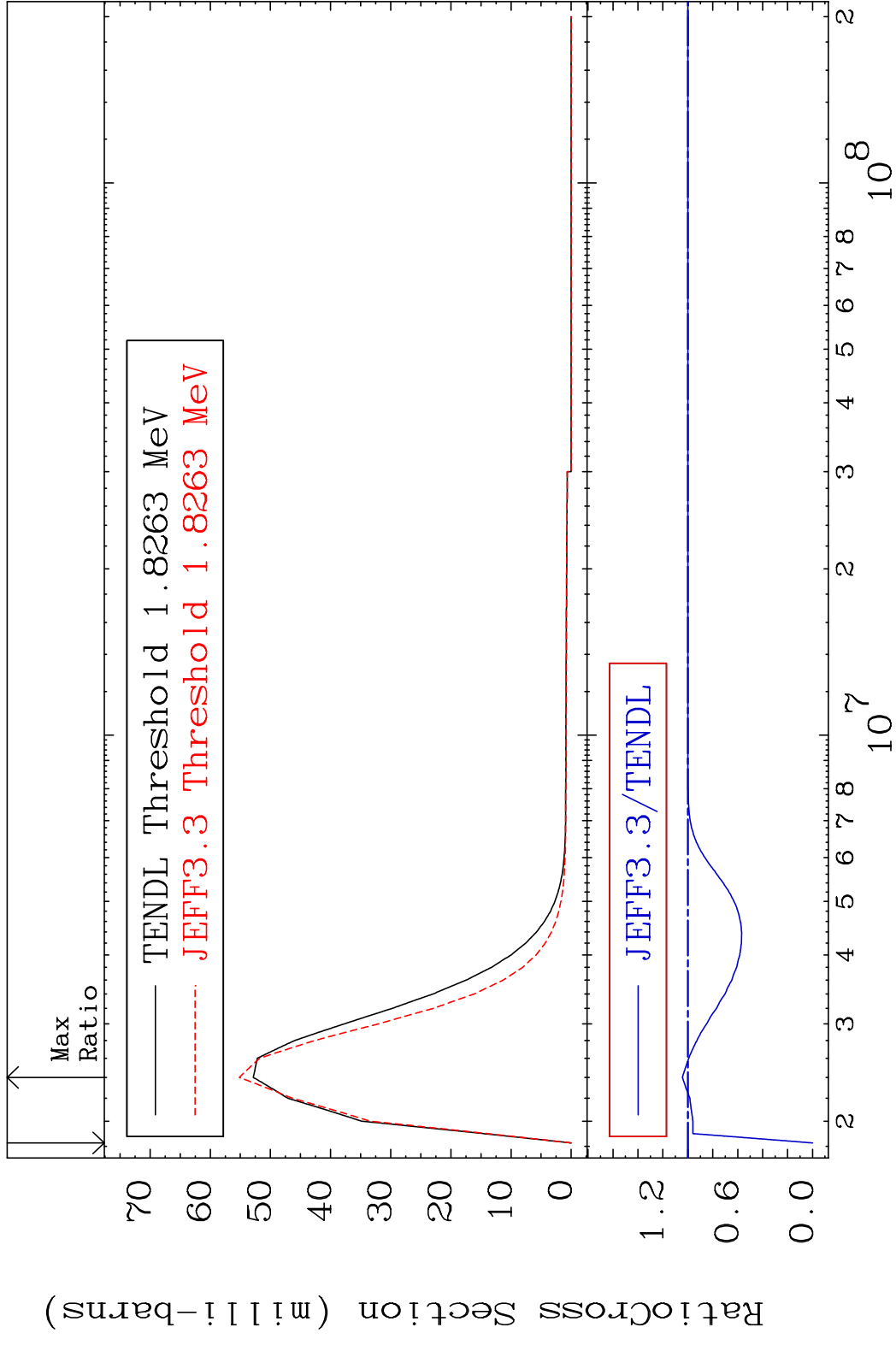
MT= 58 (n,n') Level

64-Gd-150

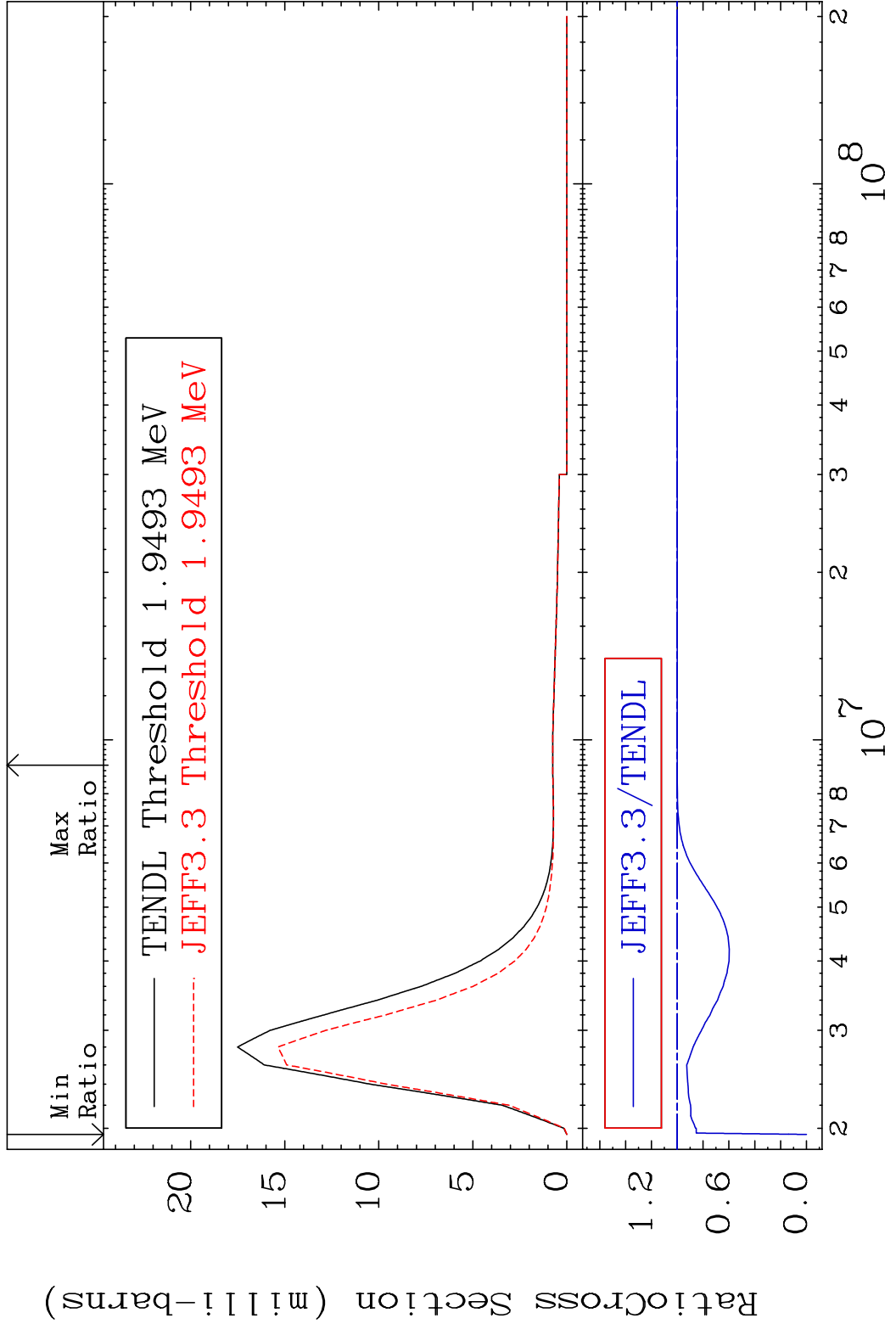
Cross Section -42.84 To 0.702 %



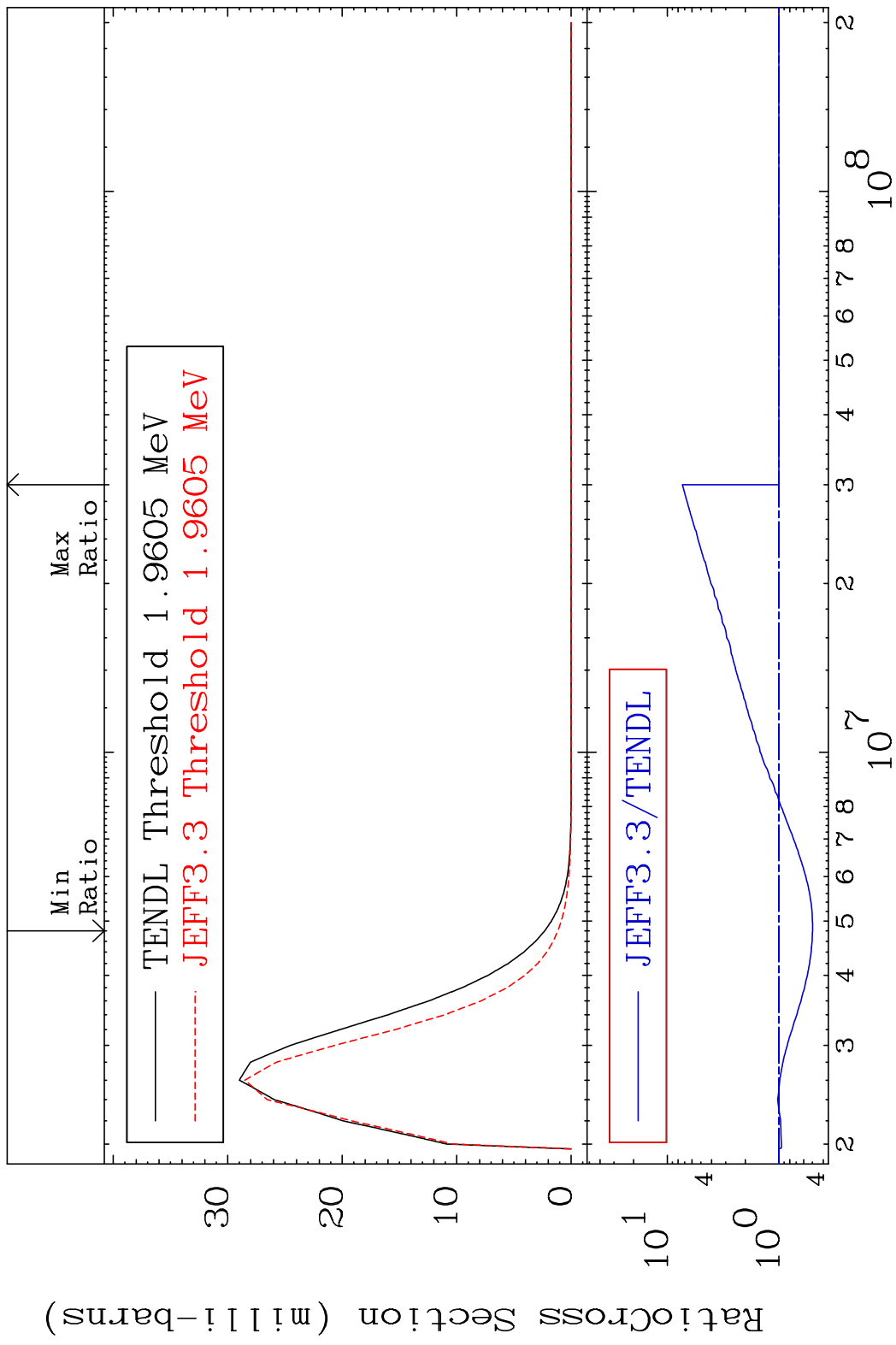
MAT 6419 MT= 59 (n, n') Level 64-Gd-150
 Cross Section -100.0 To 4.394 %



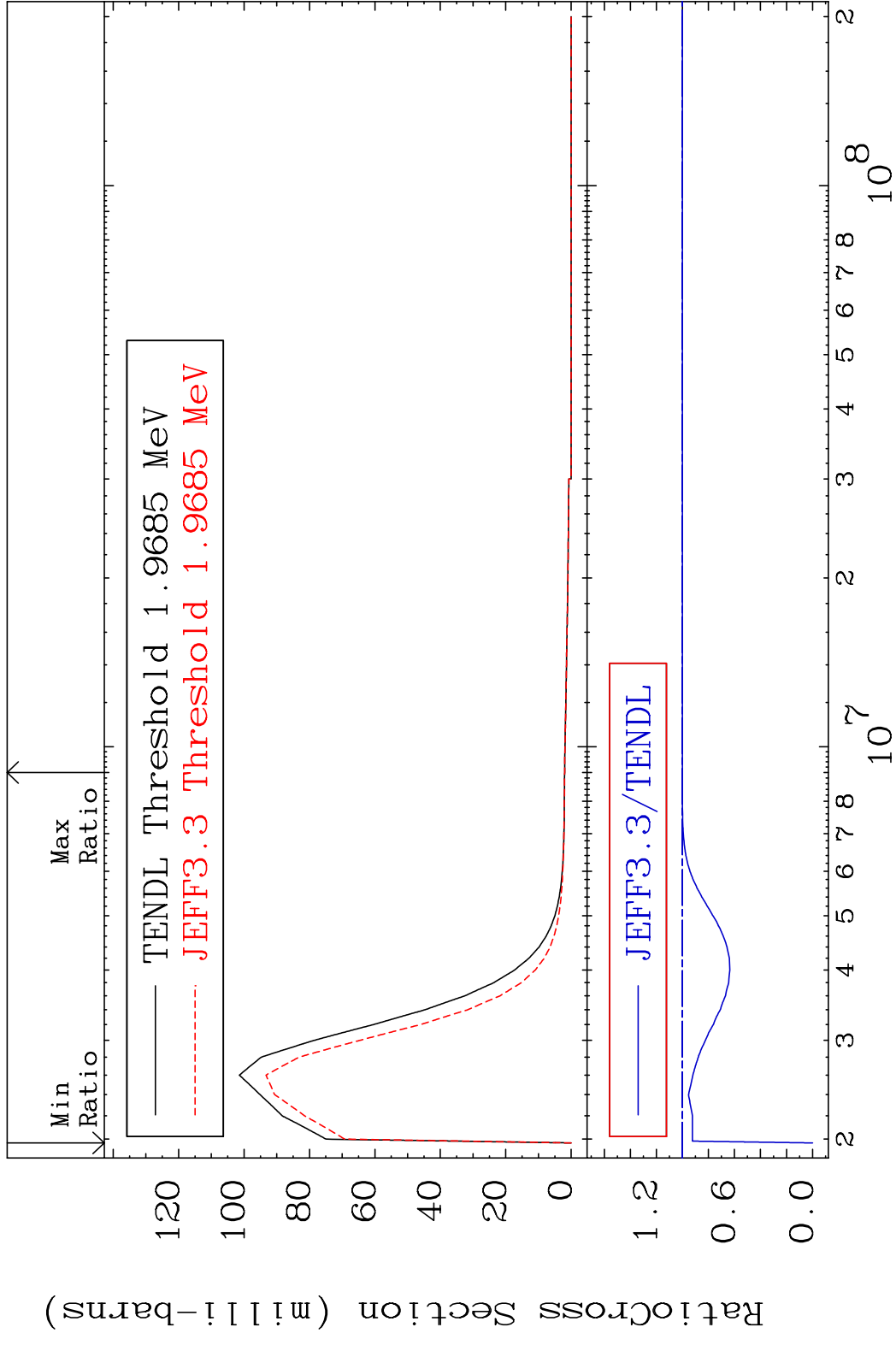
MAT 6419 MT= 60 (n, n') Level 64-Gd-150
 Cross Section -100.0 To 0.064 %



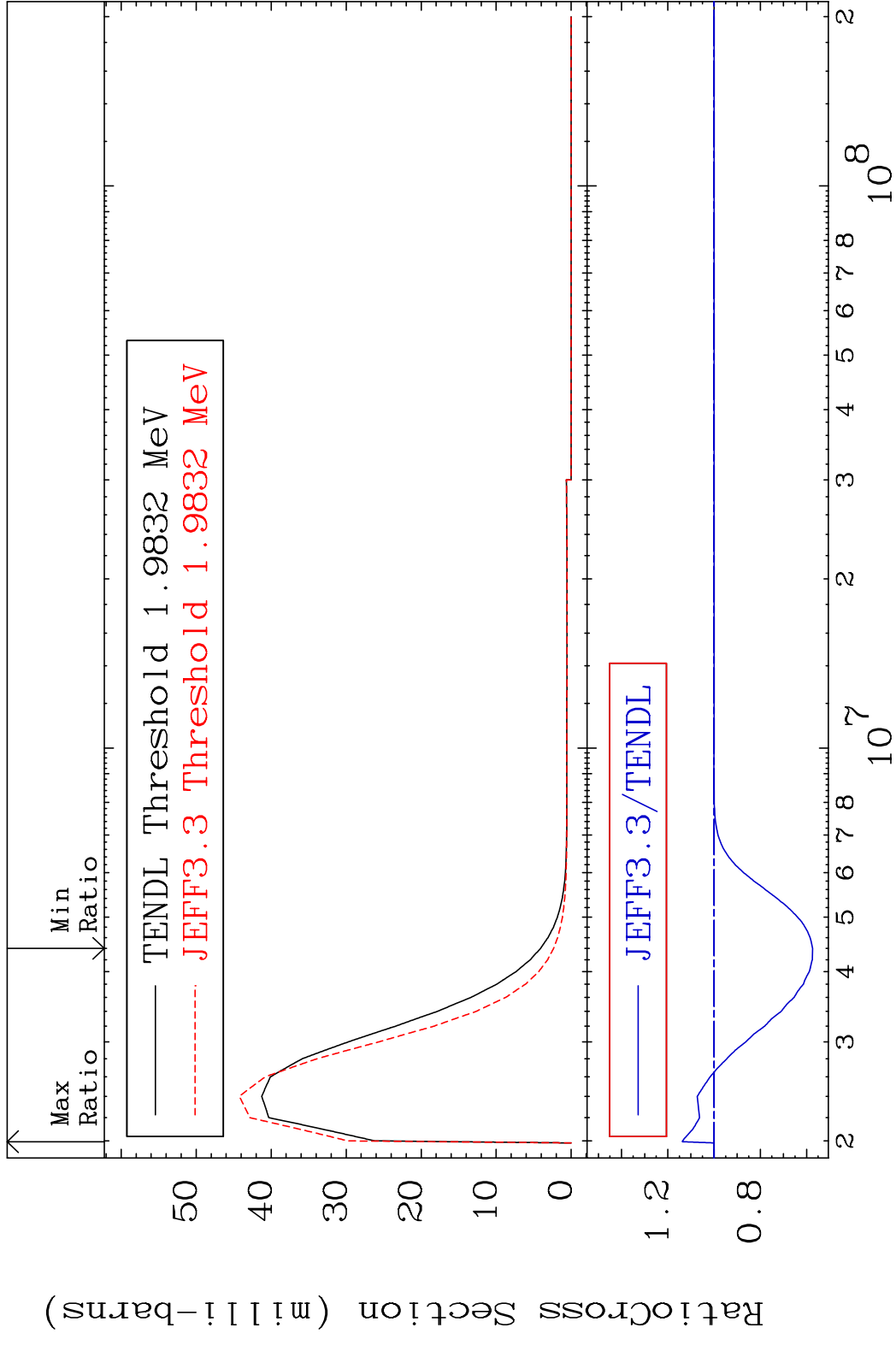
MAT 6419 MT= 61 (n, n') Level 64-Gd-150
 Cross Section -50.08 To 632.7 %



MAT 6419 MT= 62 (n,n') Level 64-Gd-150
 Cross Section -100.0 To 0.027 %



MAT 6419 MT= 63 (n, n') Level 64-Gd-150
 Cross Section -42.58 To 13.70 %

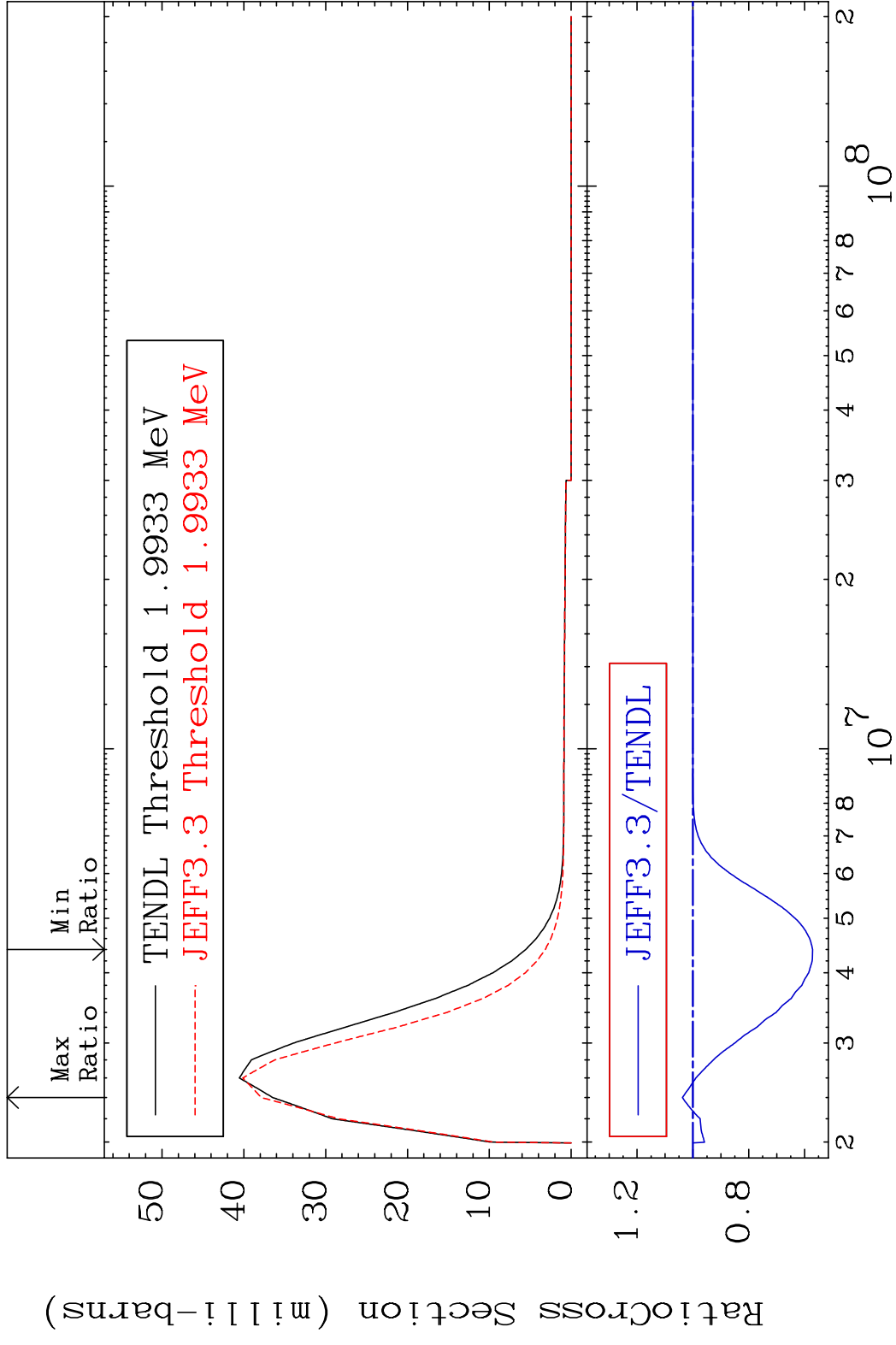


MAT 6419

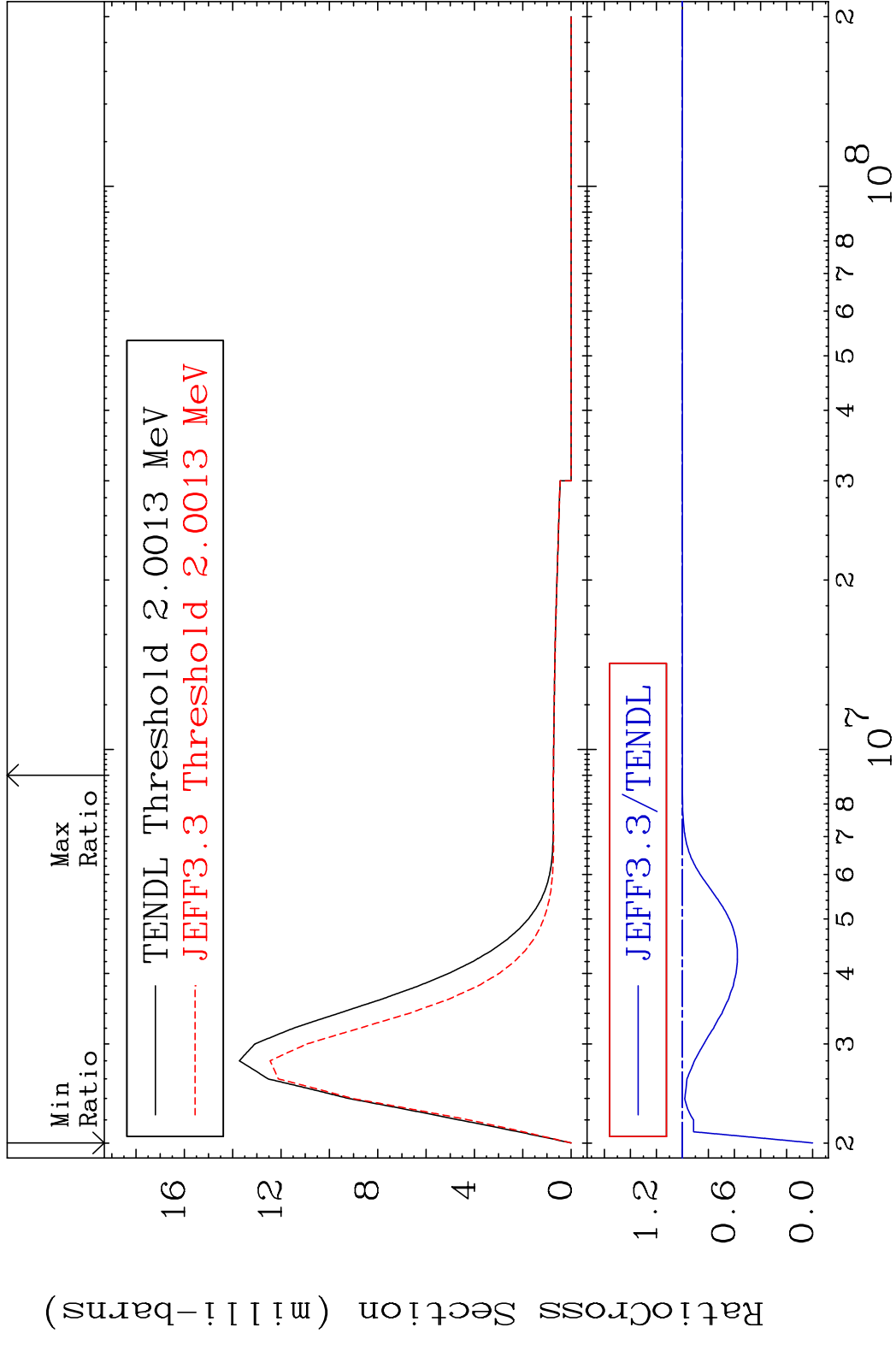
MT= 64 (n, n') Level

64-Gd-150

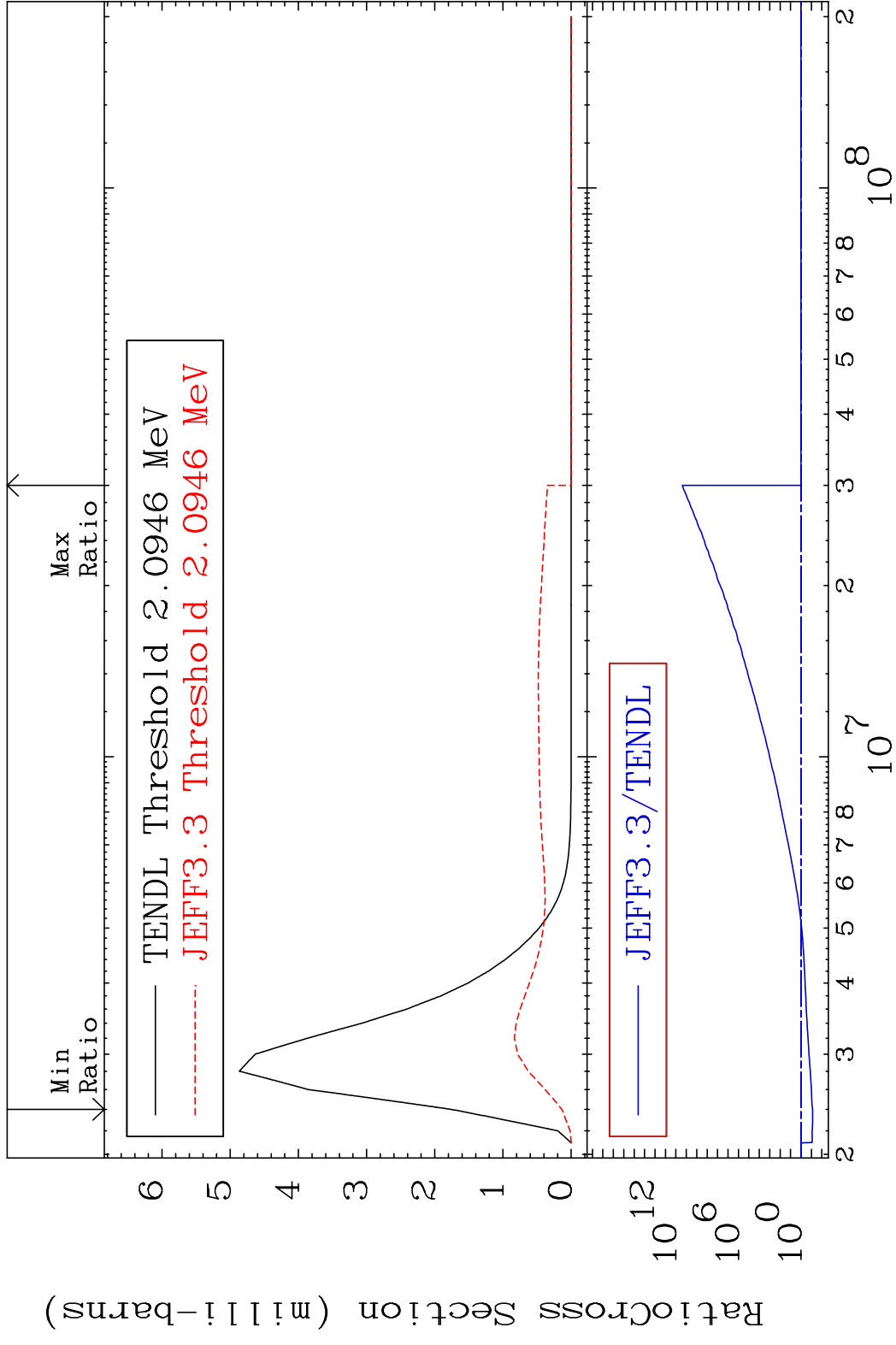
Cross Section -42.83 To 3.796 %



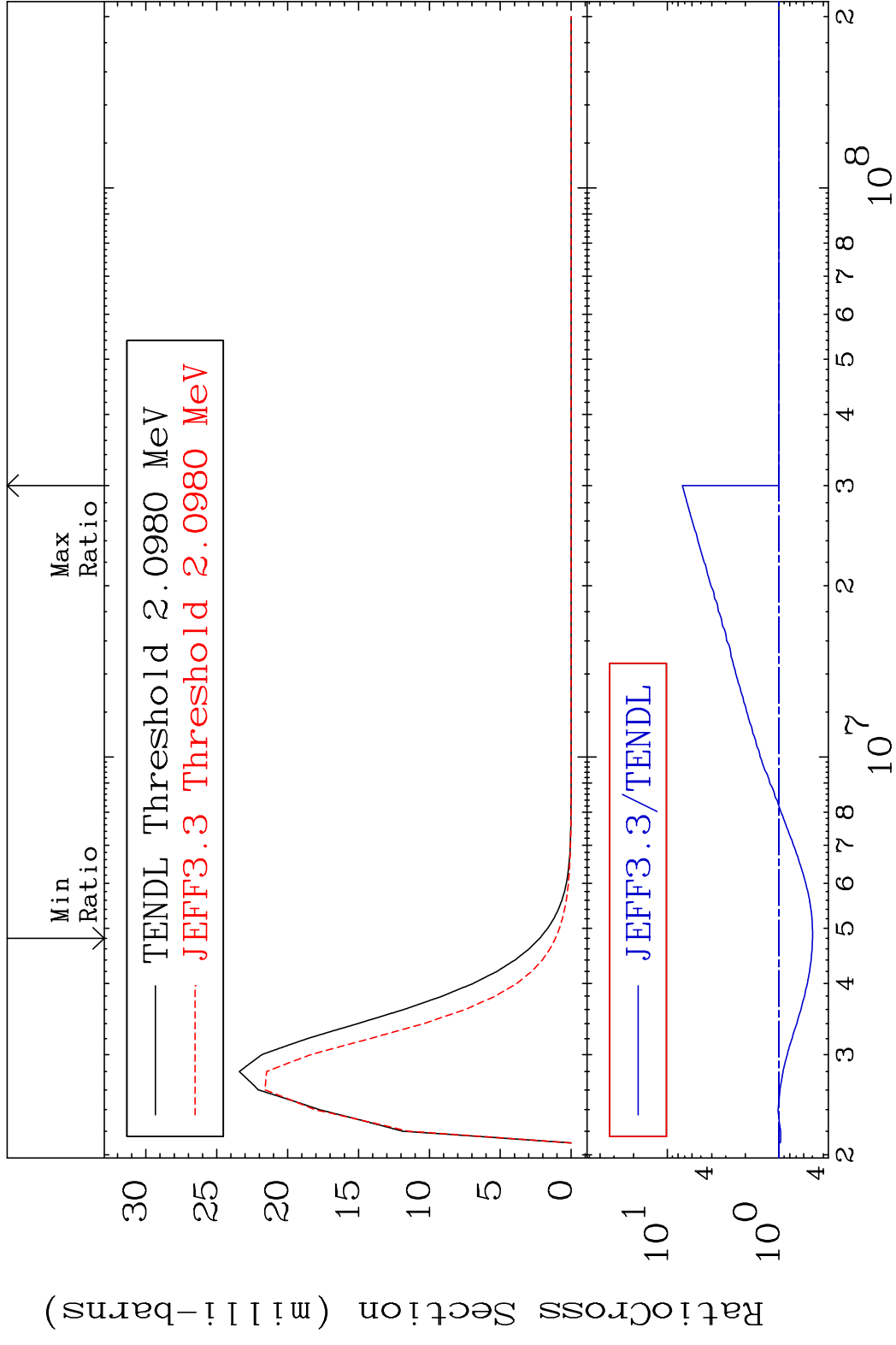
MAT 6419 MT= 65 (n,n') Level 64-Gd-150
 Cross Section -100.0 To 0.081 %



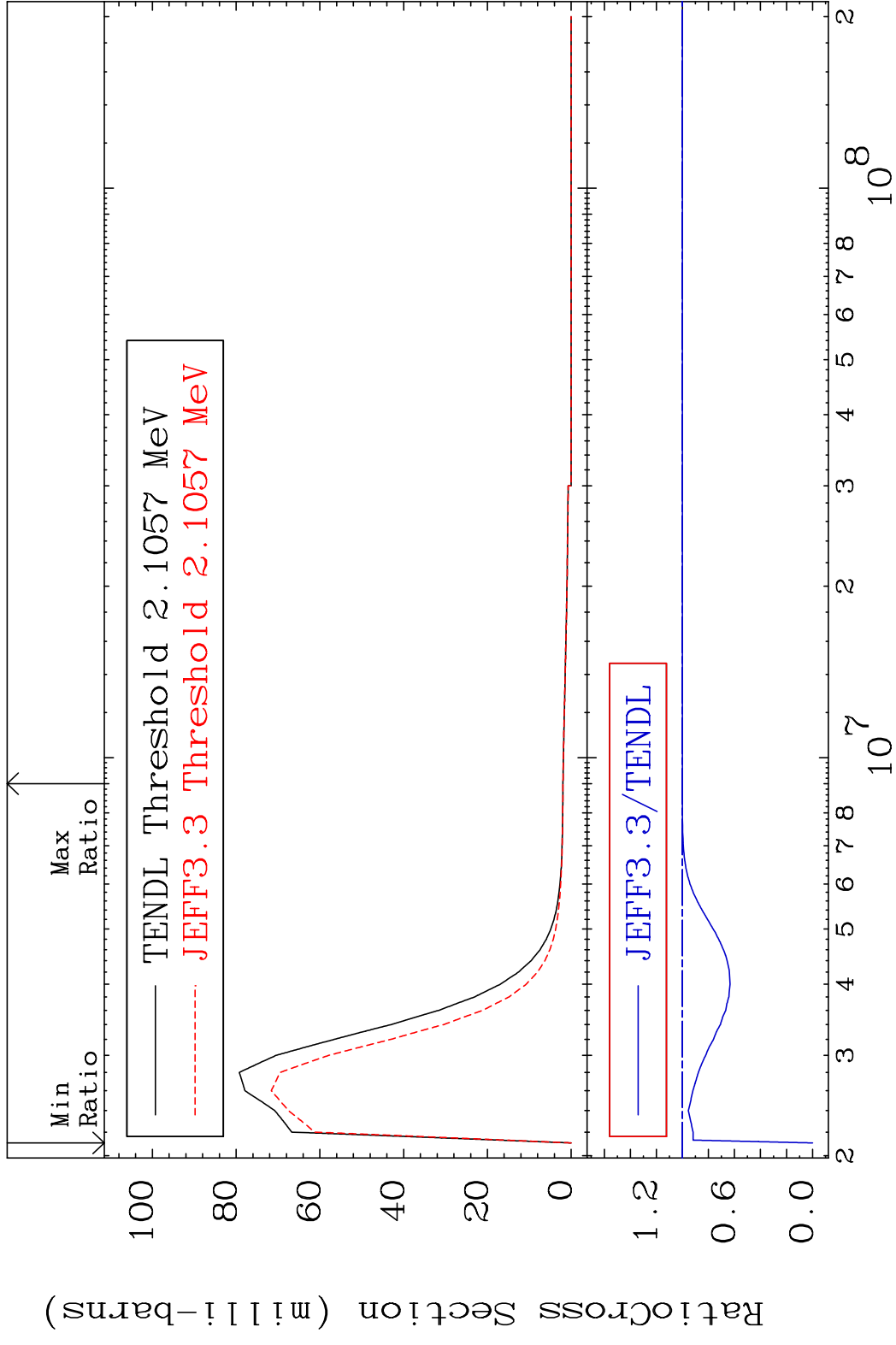
MAT 6419 MT= 66 (n, n') Level 64-Gd-150
 Cross Section -92.24 To 9999. %



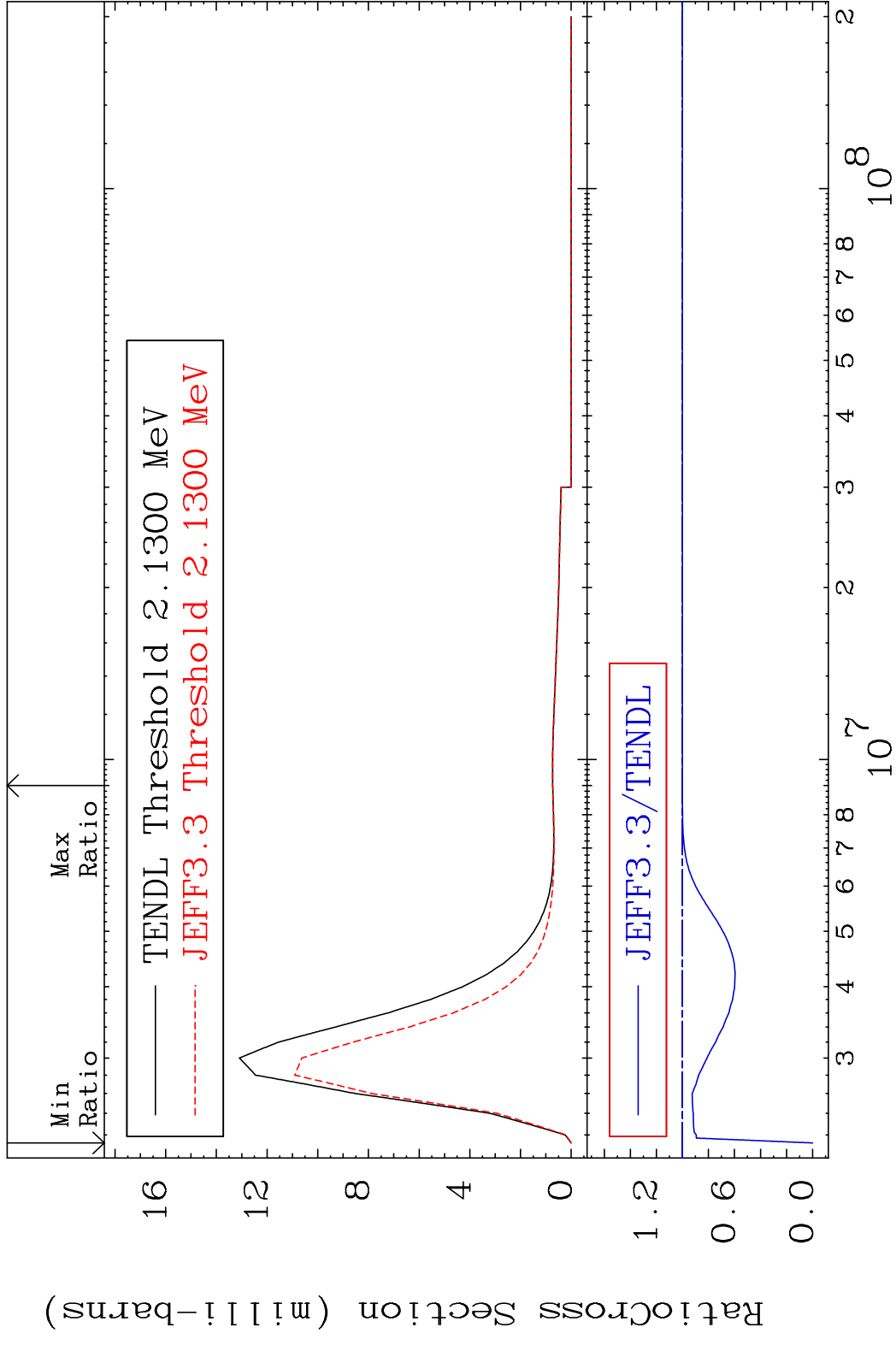
MAT 6419 MT= 67 (n, n') Level 64-Gd-150
 Cross Section -50.08 To 632.8 %



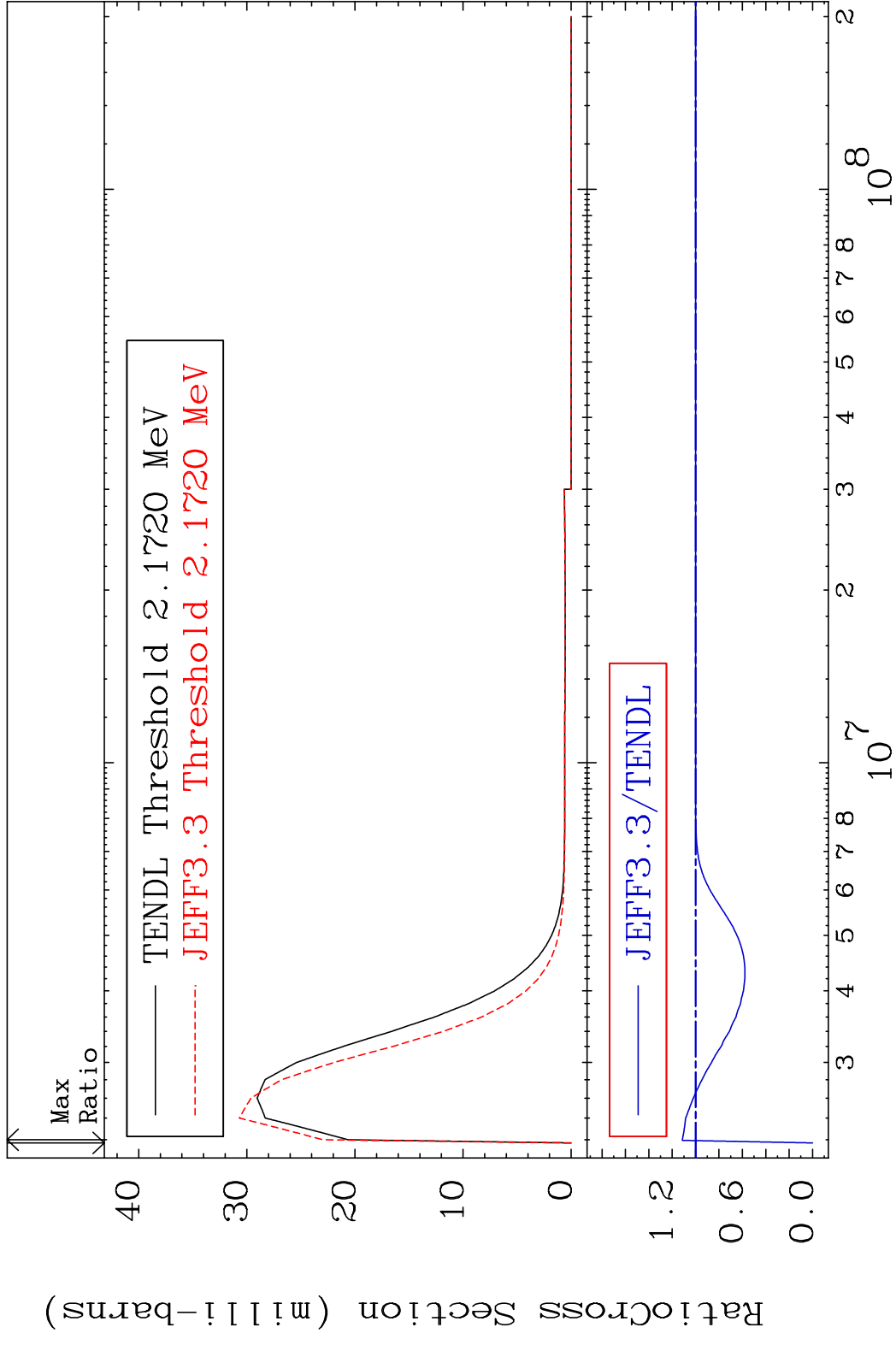
MAT 6419 MT= 68 (n,n') Level 64-Gd-150
 Cross Section -100.0 To 0.027 %



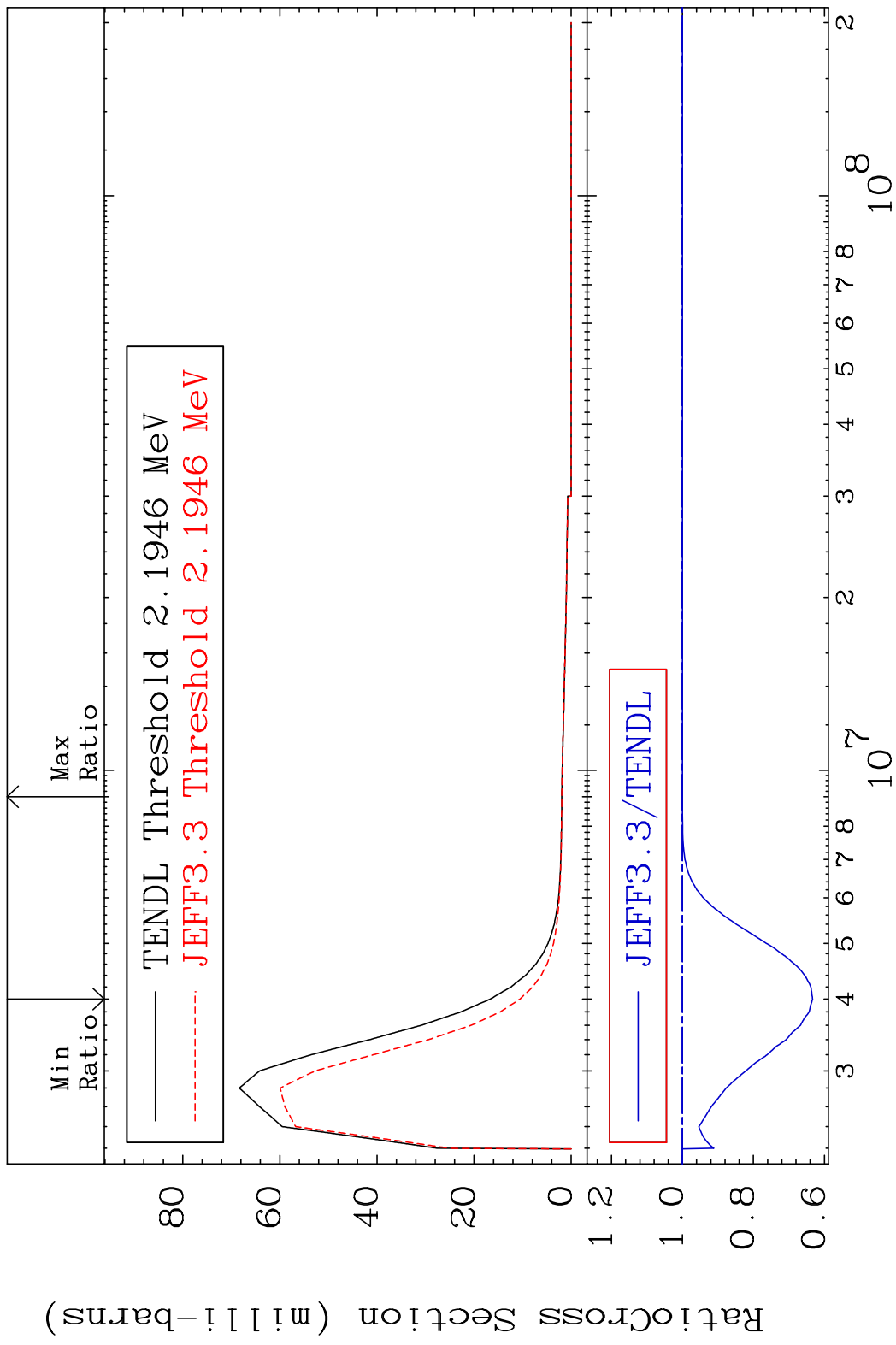
MAT 6419 MT= 69 (n,n') Level 64-Gd-150
 Cross Section -100.0 To 0.064 %



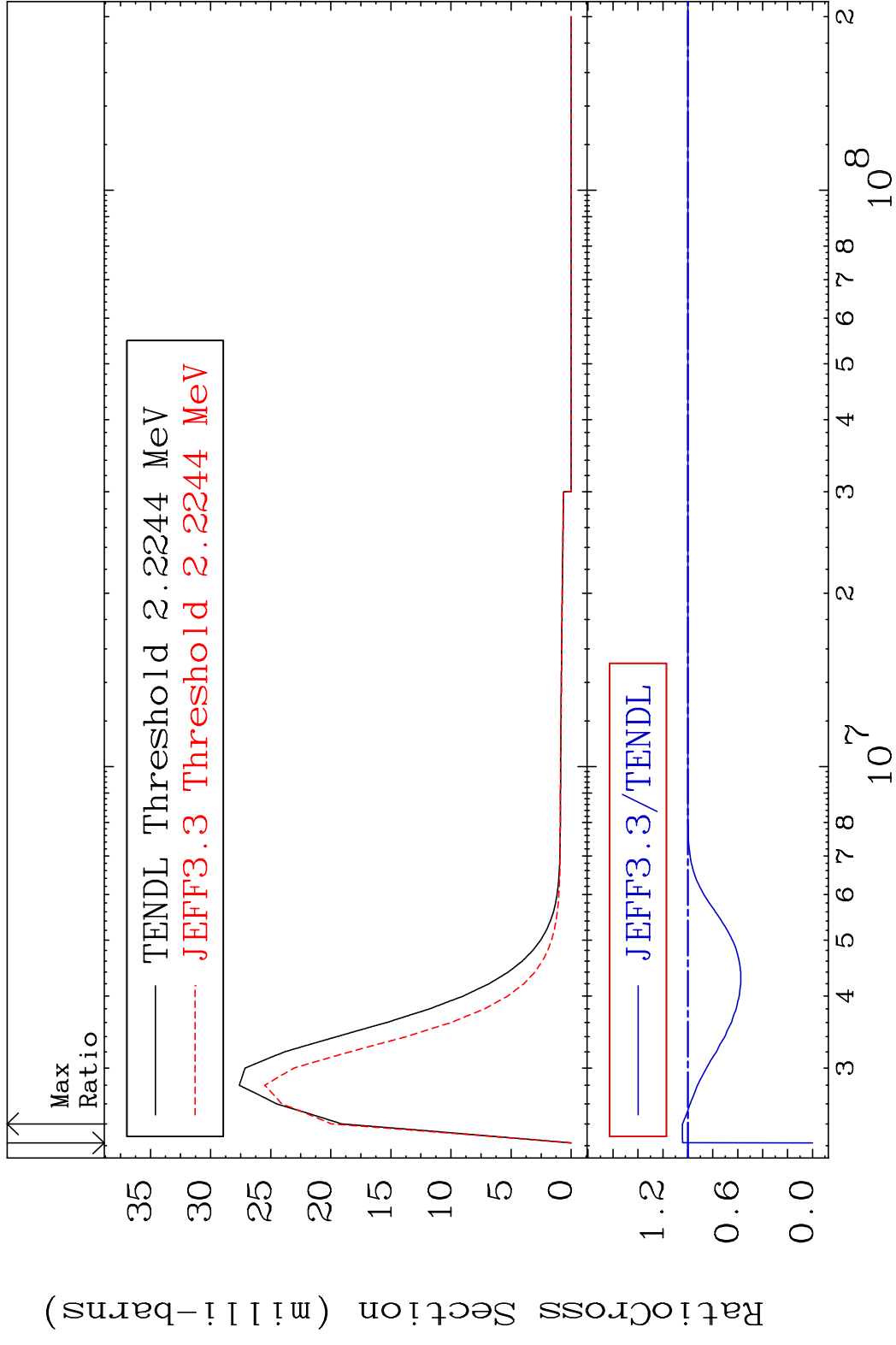
MAT 6419 MT= 70 (n,n') Level 64-Gd-150
 Cross Section -100.0 To 11.32 %



MAT 6419 MT= 71 (n, n') Level 64-Gd-150
 Cross Section -36.67 To 0.027 %



MAT 6419 MT= 72 (n,n') Level 64-Gd-150
 Cross Section -100.0 To 4.402 %

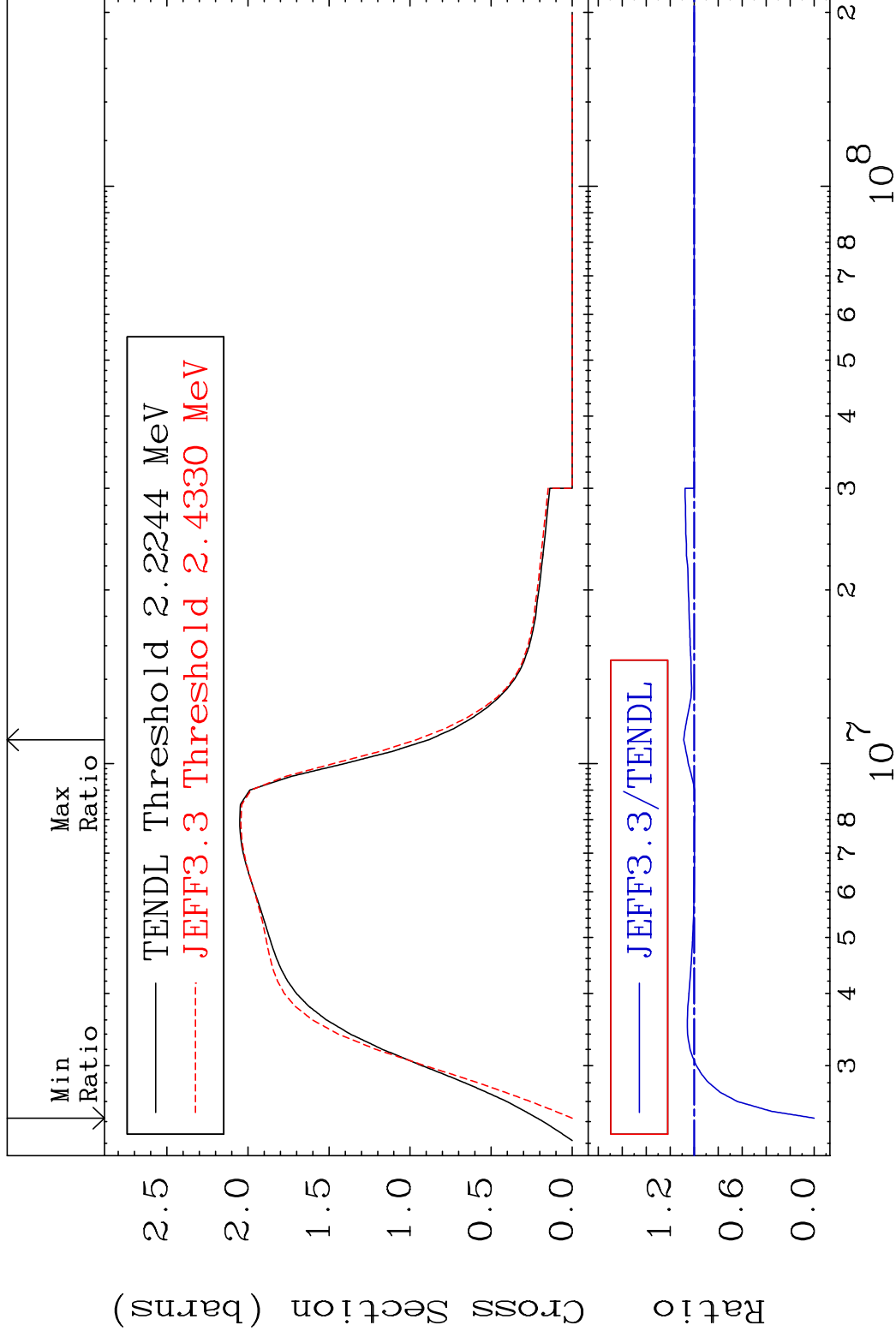


MAT 6419

(n, n') Continuum

64-Gd-150

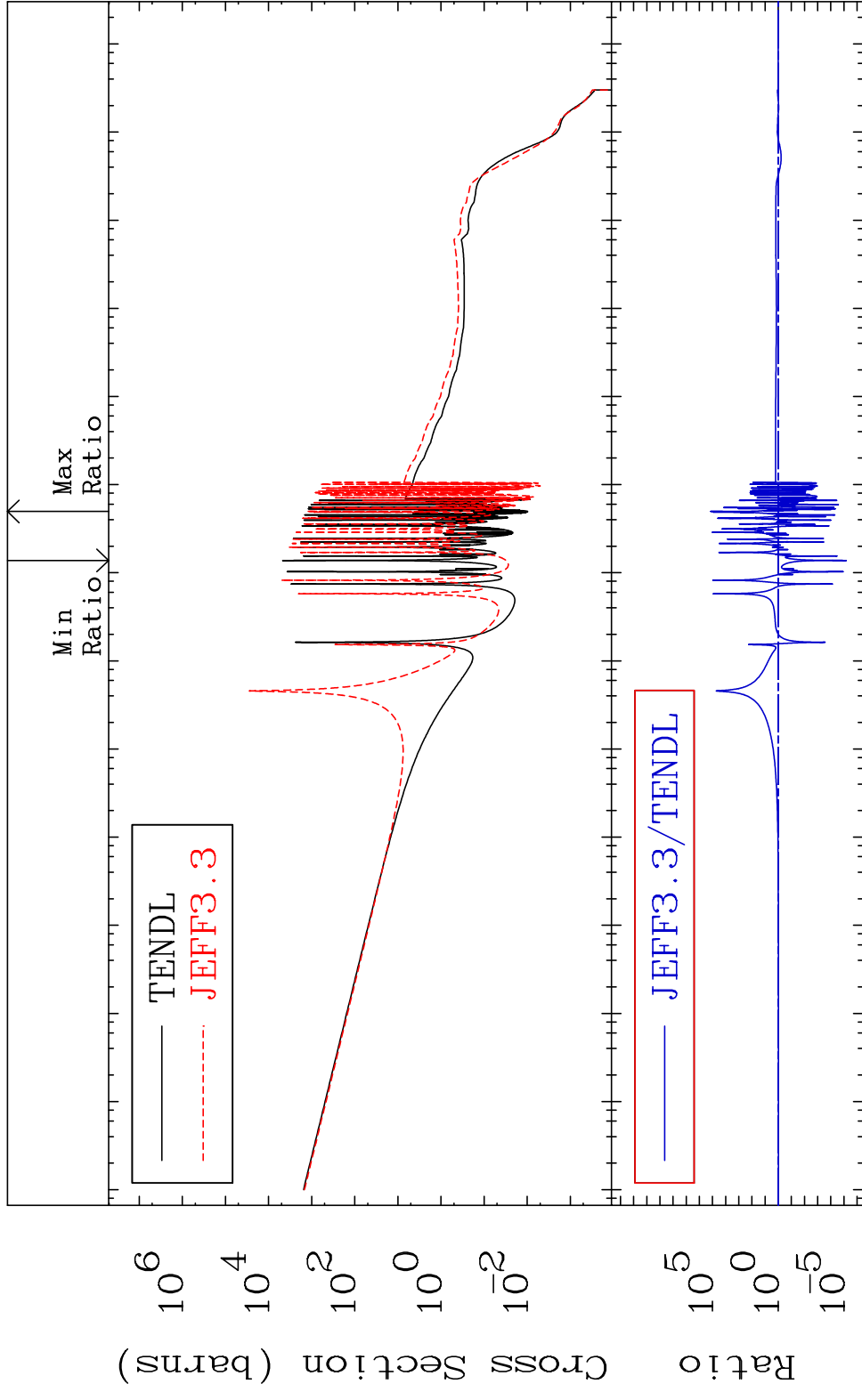
Cross Section -100.0 To 8.732 %



MAT 6419

(n, γ)
Cross Section -100.0 To 9999. %

64-Gd-150

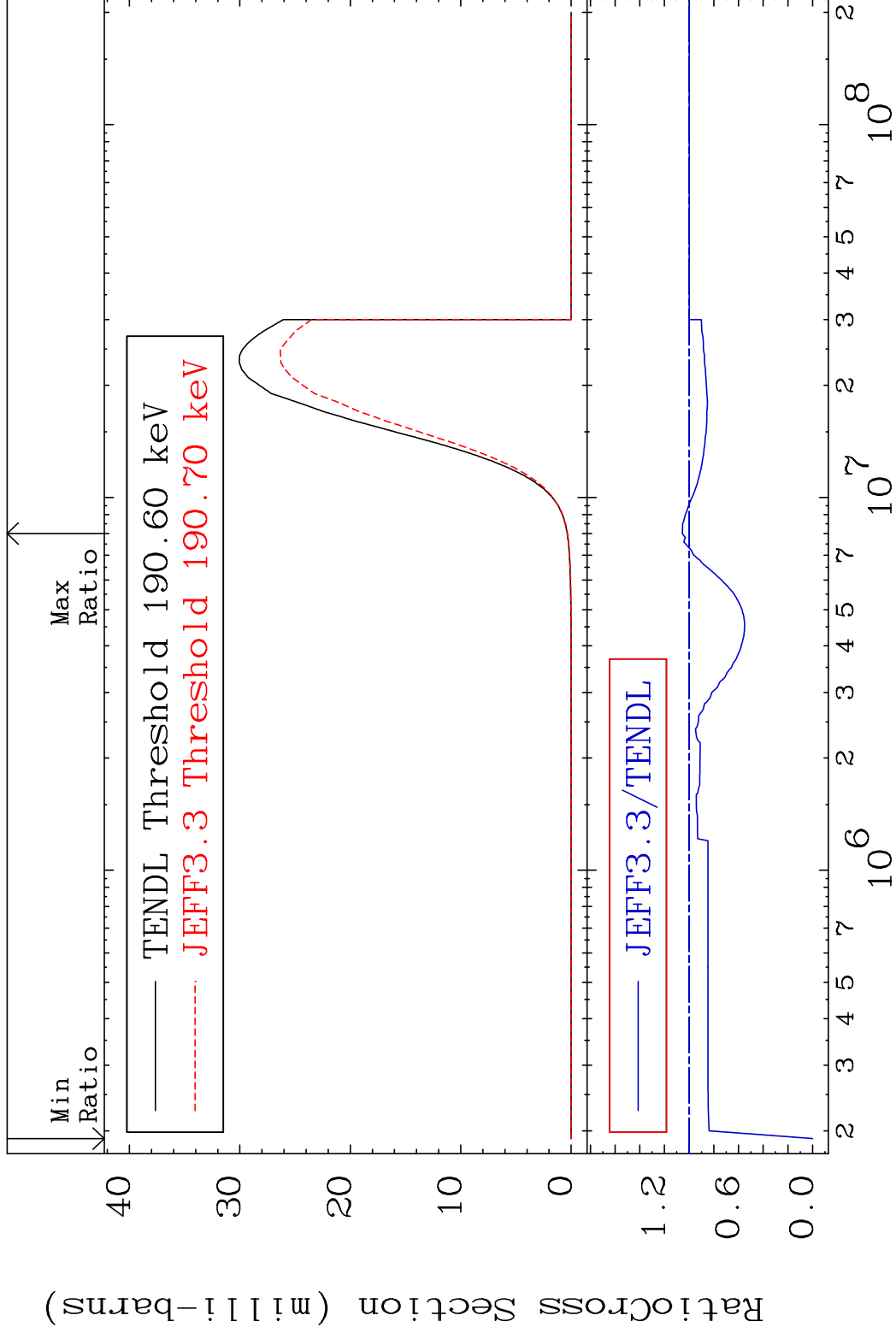


MAT 6419

(n, p)

64-Gd-150

Cross Section -100.0 To 5.497 %



45

Incident Energy (eV)

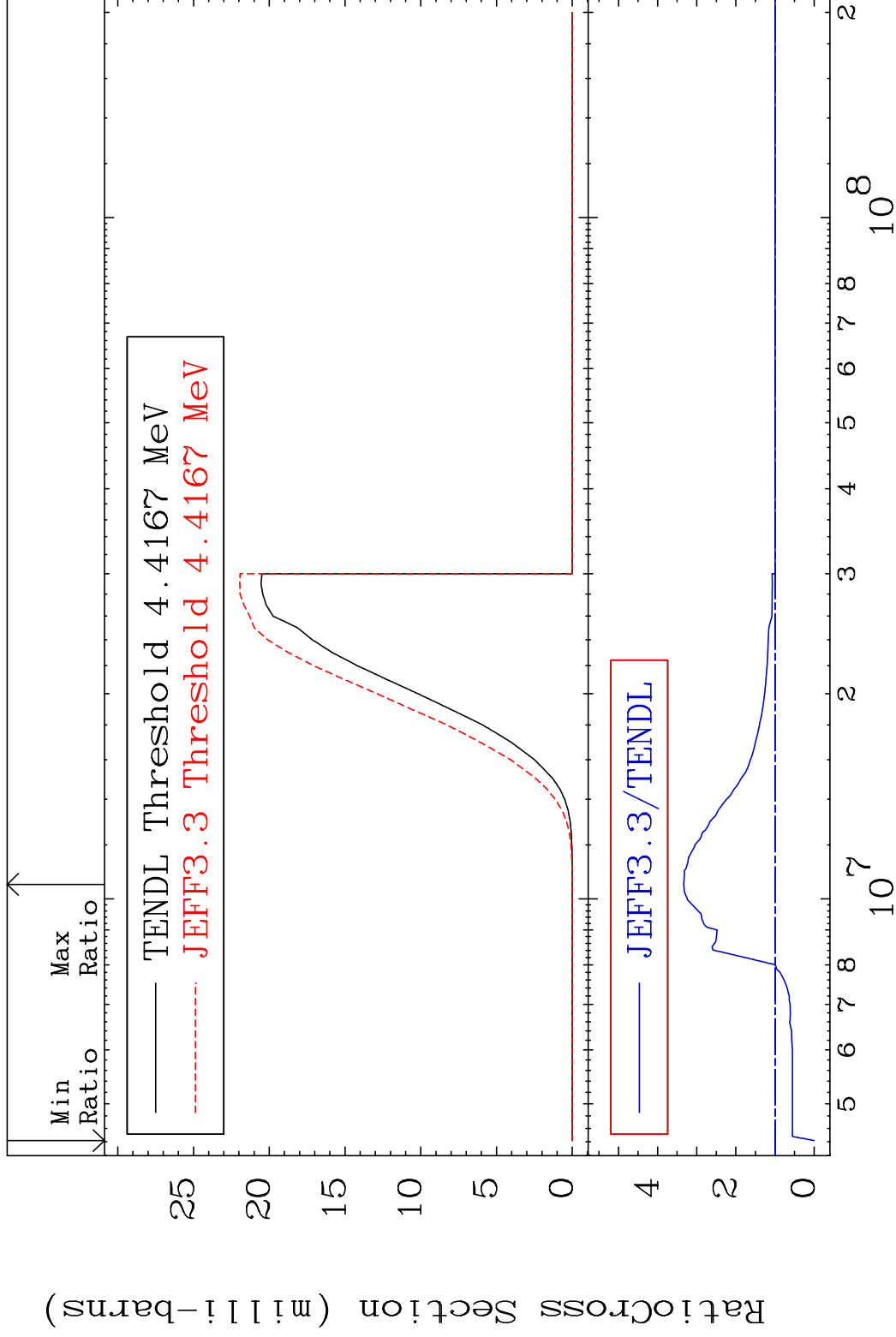
64-Gd-150

MAT 6419

(n, d)

64-Gd-150

Cross Section -100.0 To 233.4 %



46

Incident Energy (eV)

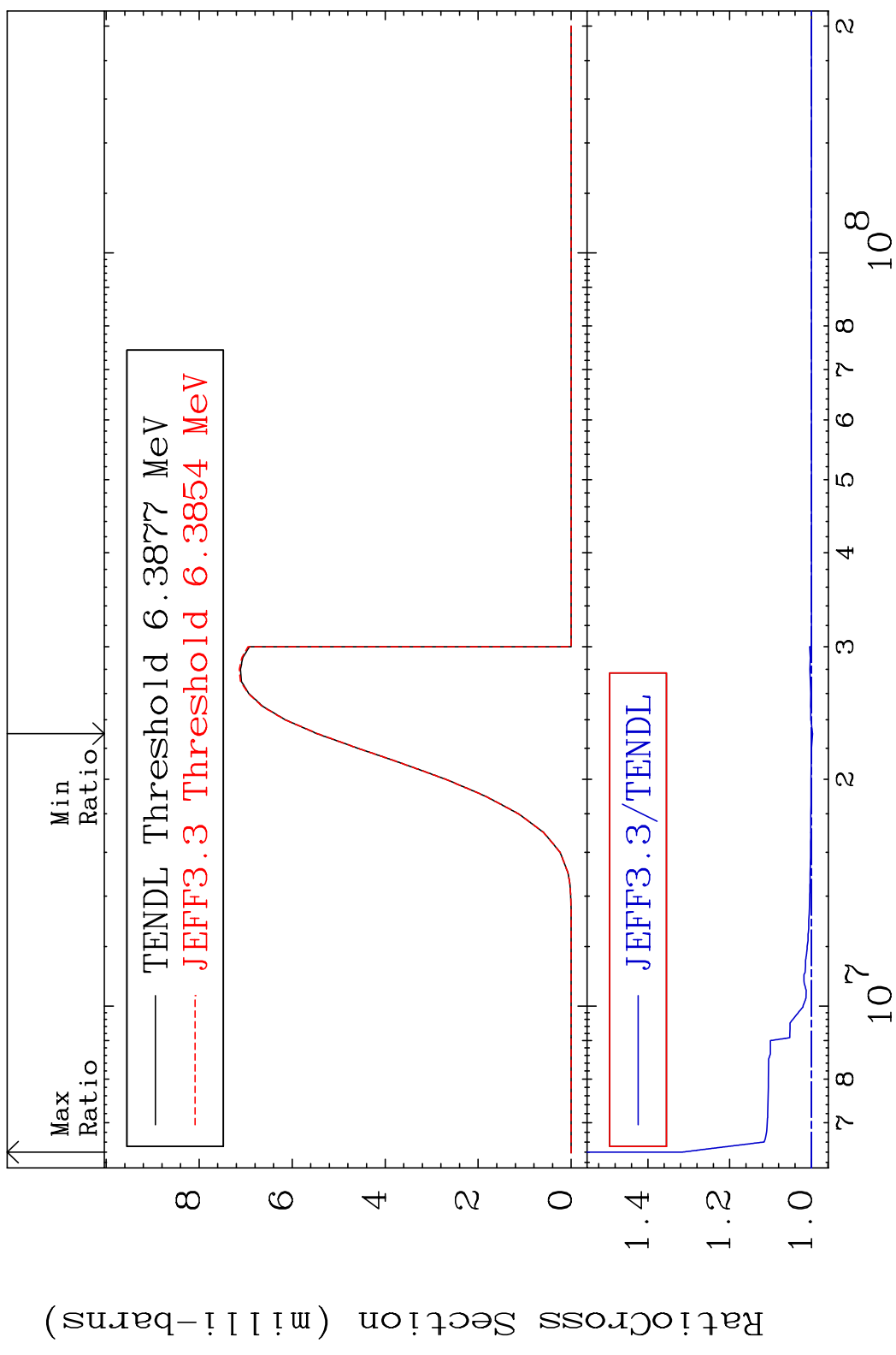
64-Gd-150

MAT 6419

(n, t)

64-Gd-150

Cross Section -0.274 To 31.57 %



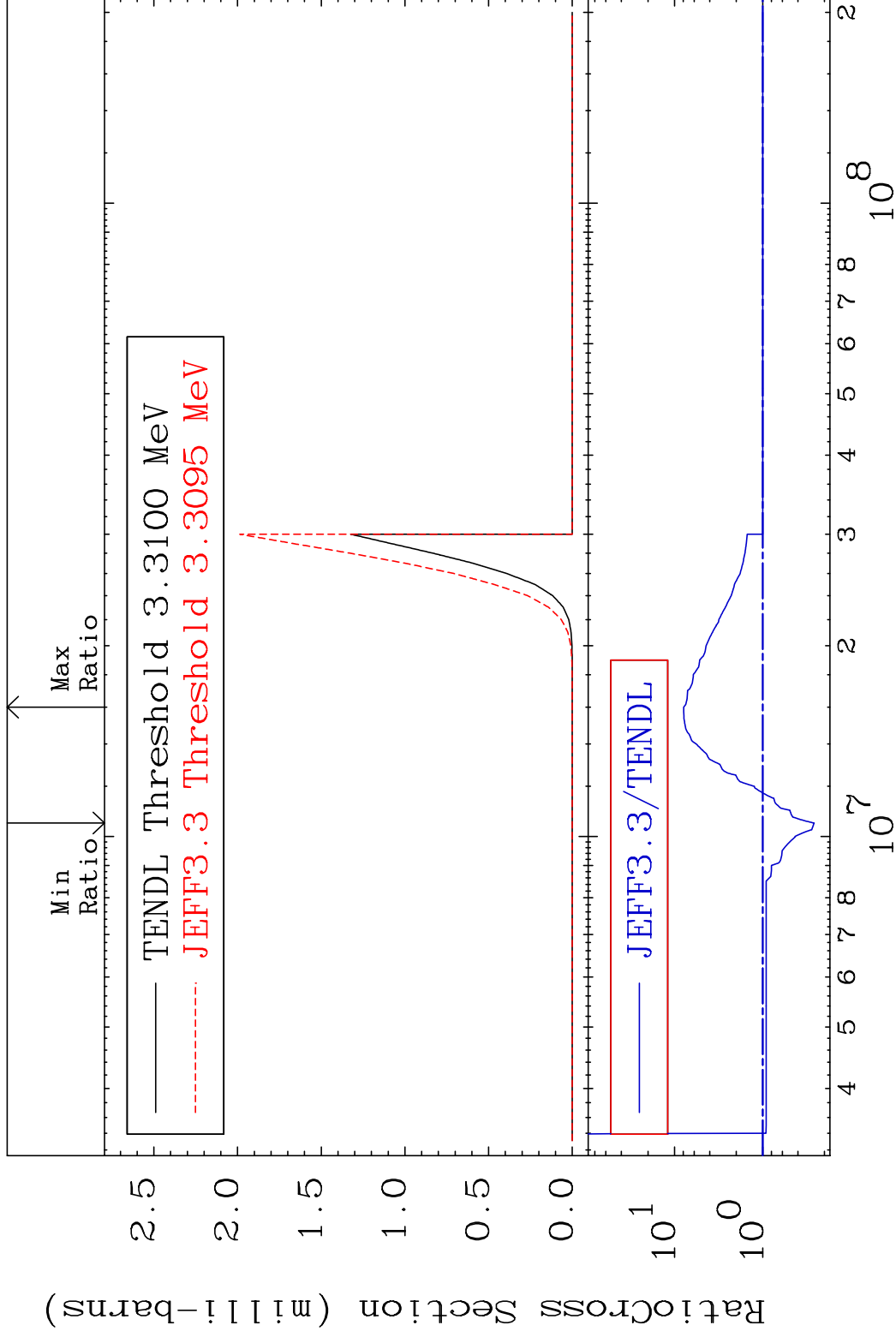
MAT 6419

(n, He-3)

64-Gd-150

Cross Section

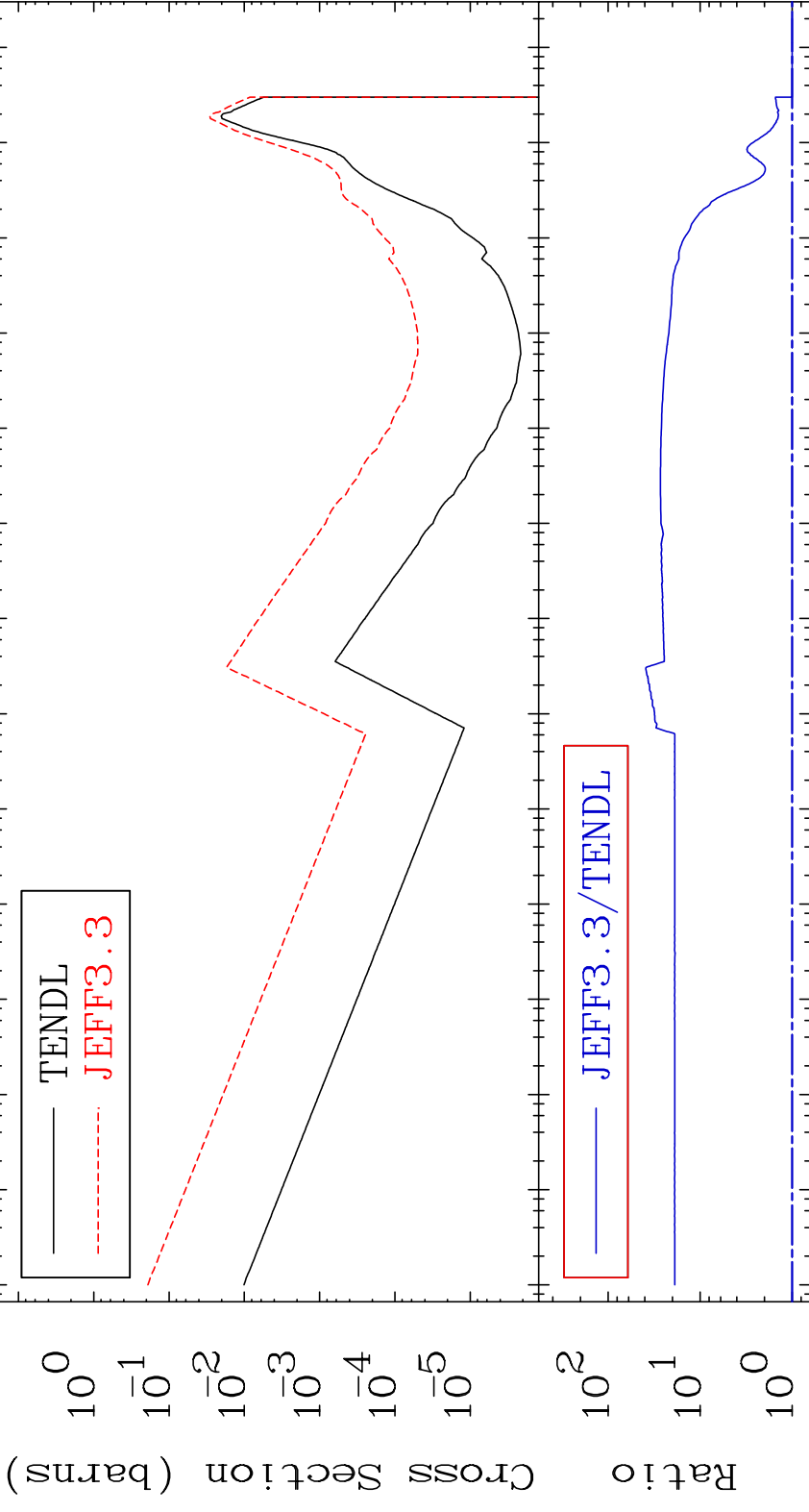
-73.74 To 688.9 %



MAT 6419

(n, α)
Cross Section 0.000 To 3801. %

64-Gd-150



49

Incident Energy (eV)

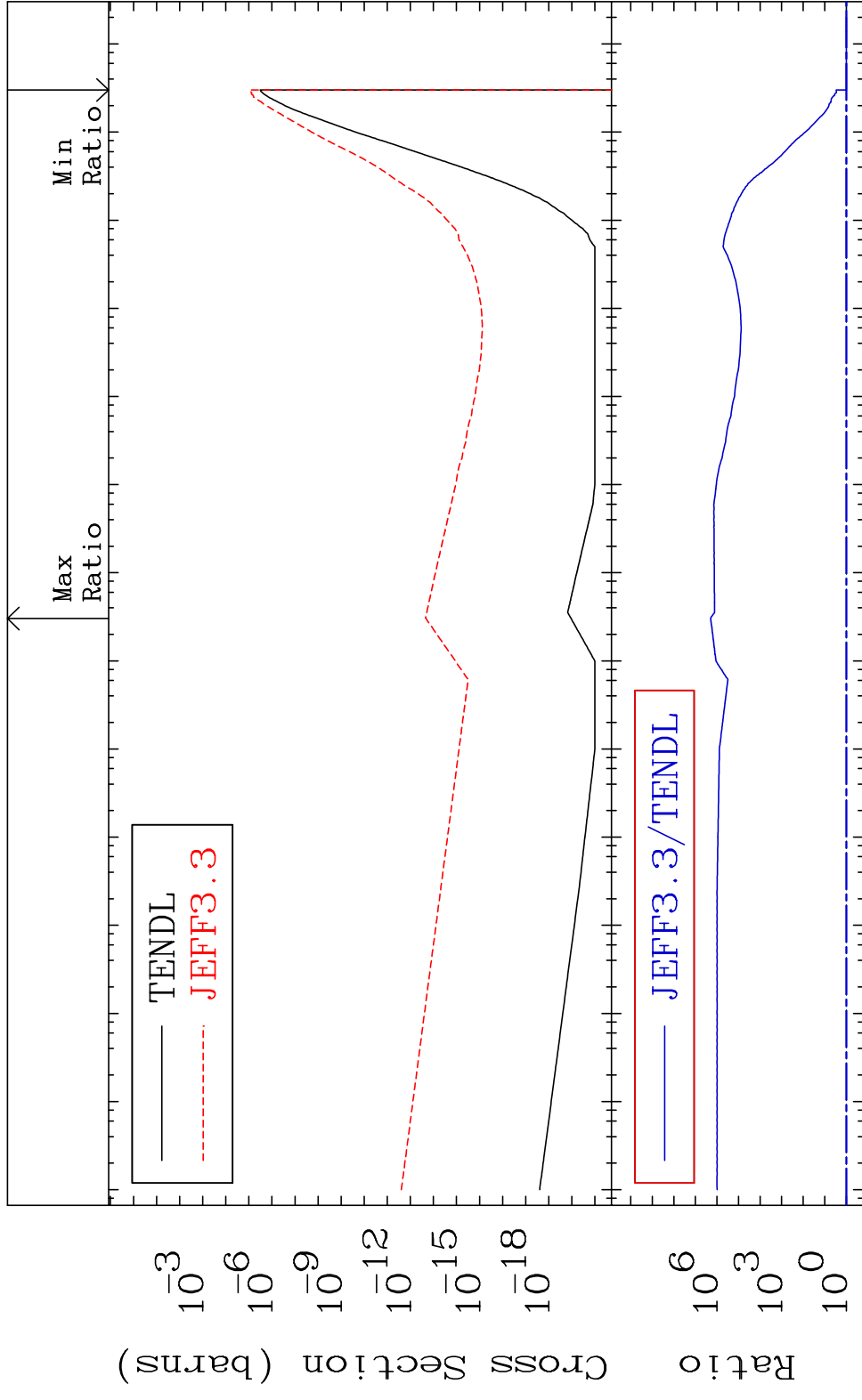
64-Gd-150

MAT 6419

(n, 2α)

64-Gd-150

Cross Section 0.000 To 9999. %



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

50

Incident Energy (eV)

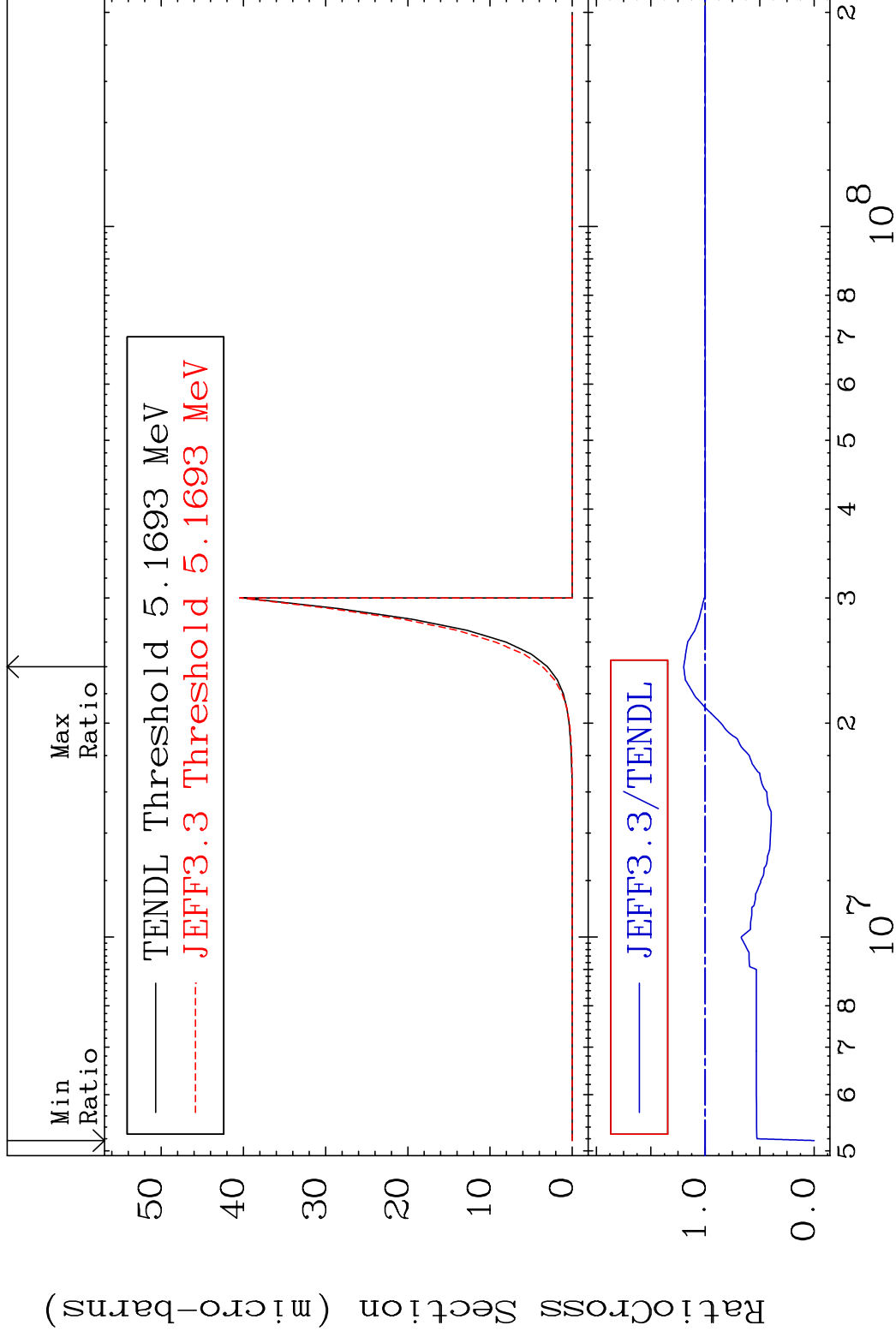
64-Gd-150

MAT 6419

(n,2p)

64-Gd-150

Cross Section -100.0 To 19.81 %



51

Incident Energy (eV)

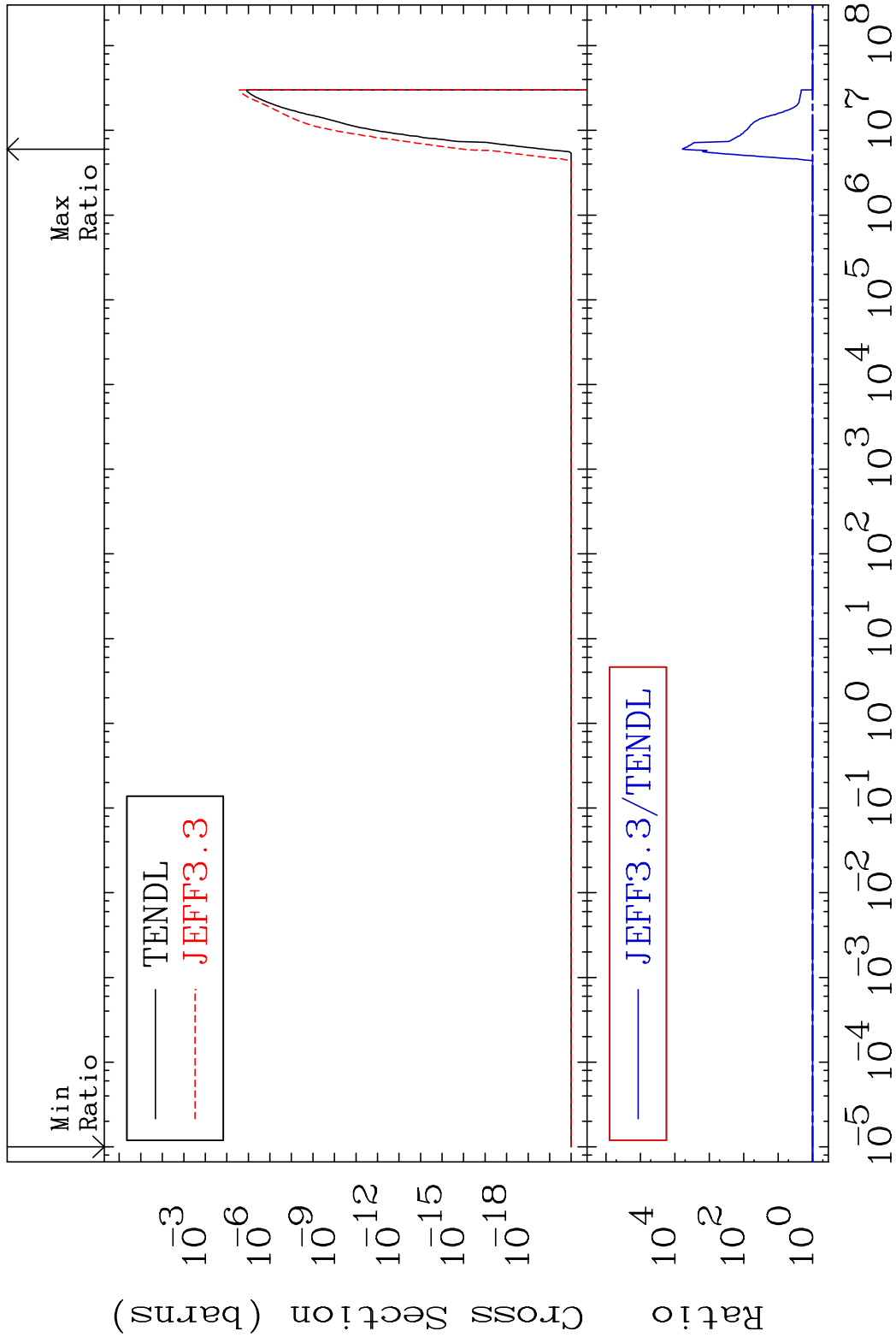
64-Gd-150

MAT 6419

(n,p) α

64-Gd-150

Cross Section 0.000 To 9999. %



52

Incident Energy (eV)

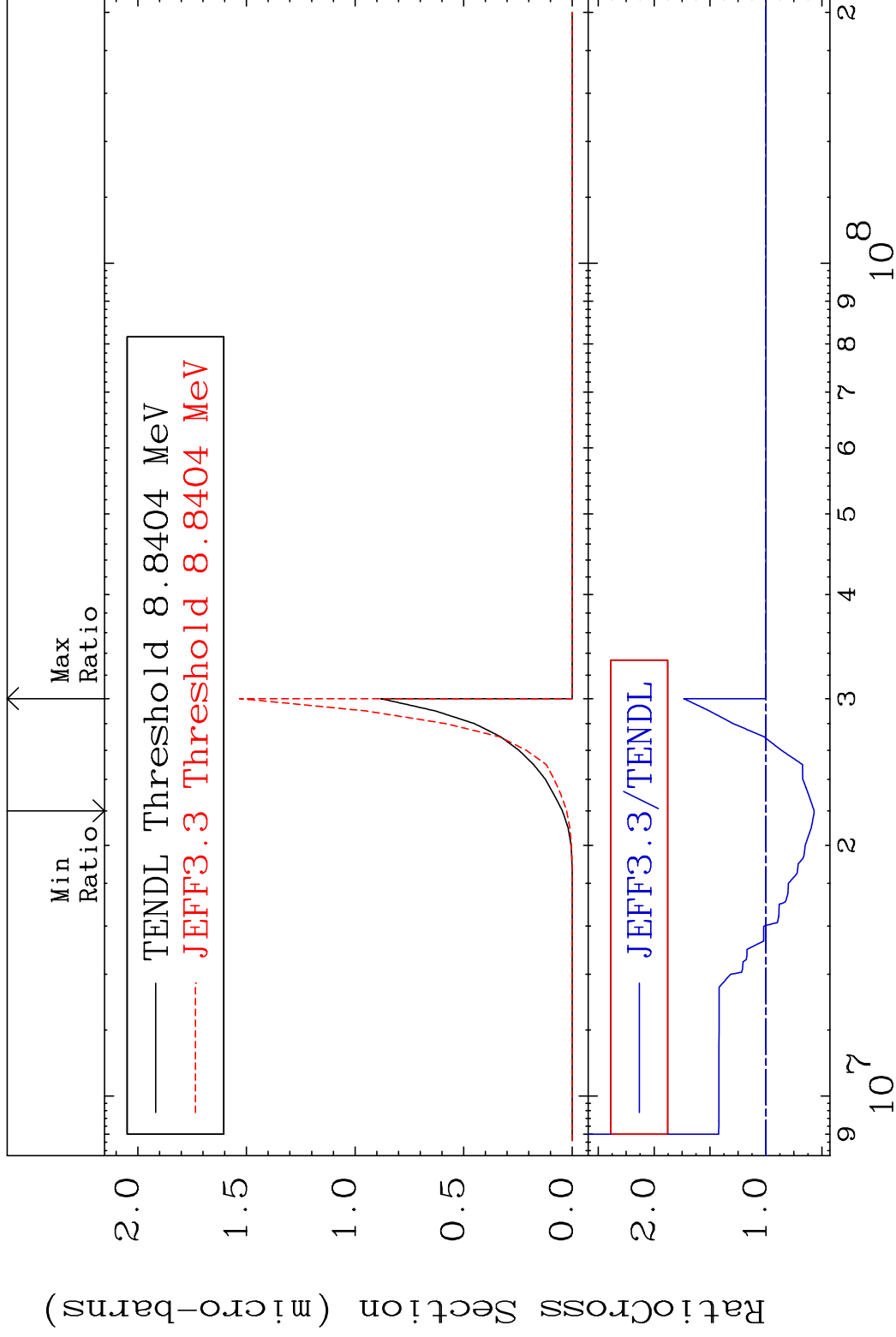
64-Gd-150

MAT 6419

(n,p) d

64-Gd-150

Cross Section -43.07 To 73.59 %

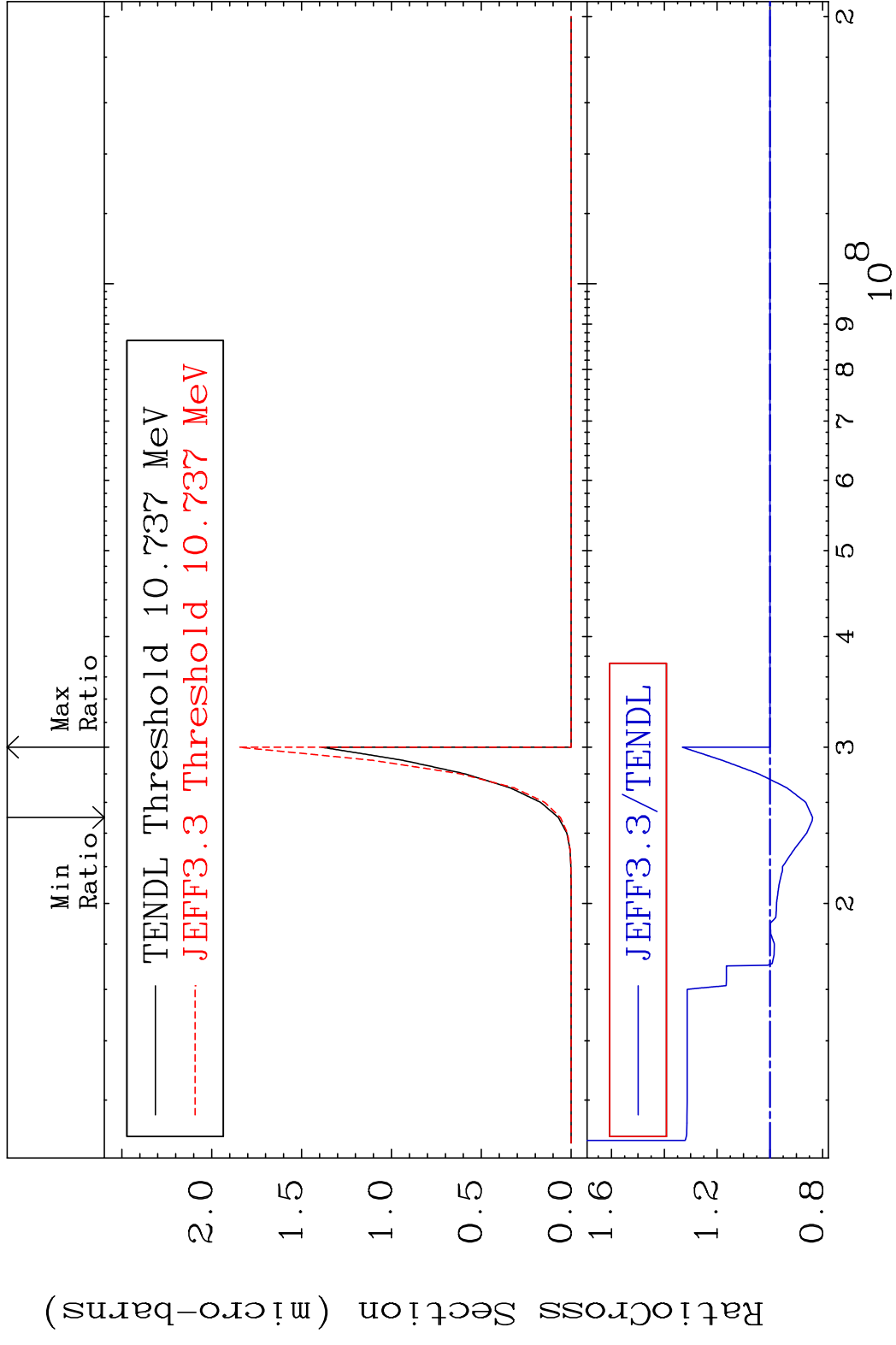


53

Incident Energy (eV)

64-Gd-150

MAT 6419 (n,p) t 64-Gd-150
 Cross Section -16.15 To 33.16 %

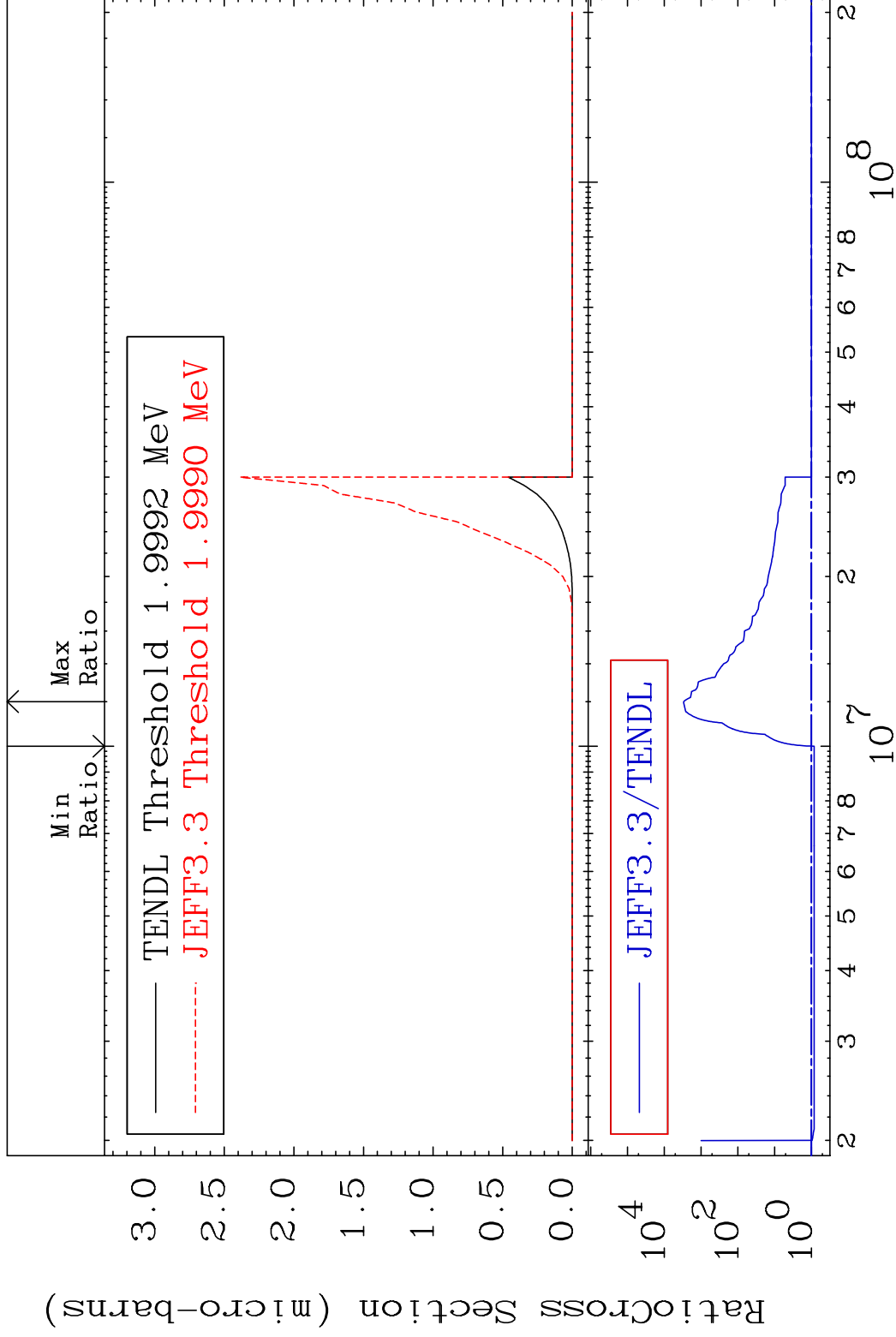


MAT 6419

(n,d) α

64-Gd-150

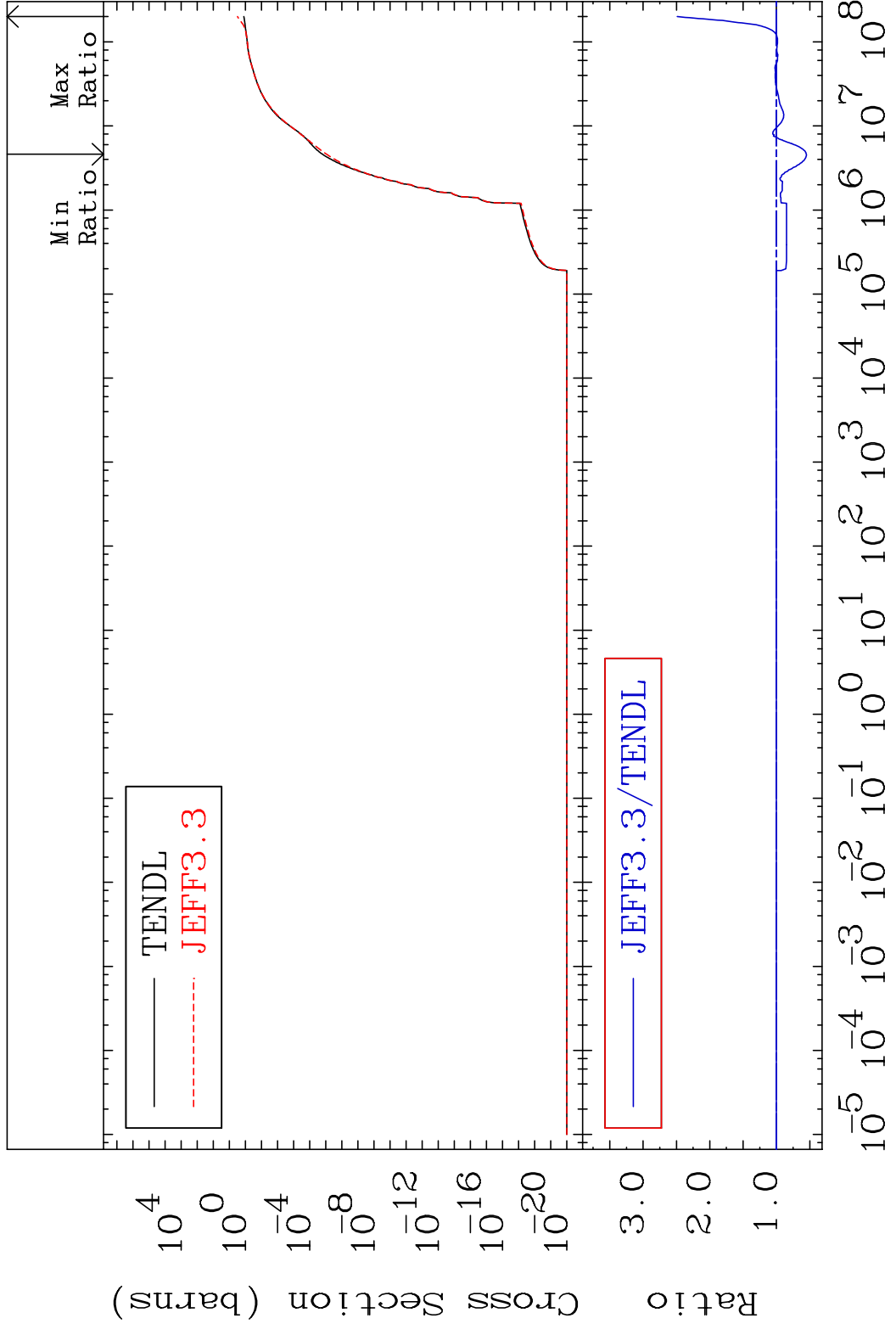
Cross Section -15.78 To 9999. %



MAT 6419

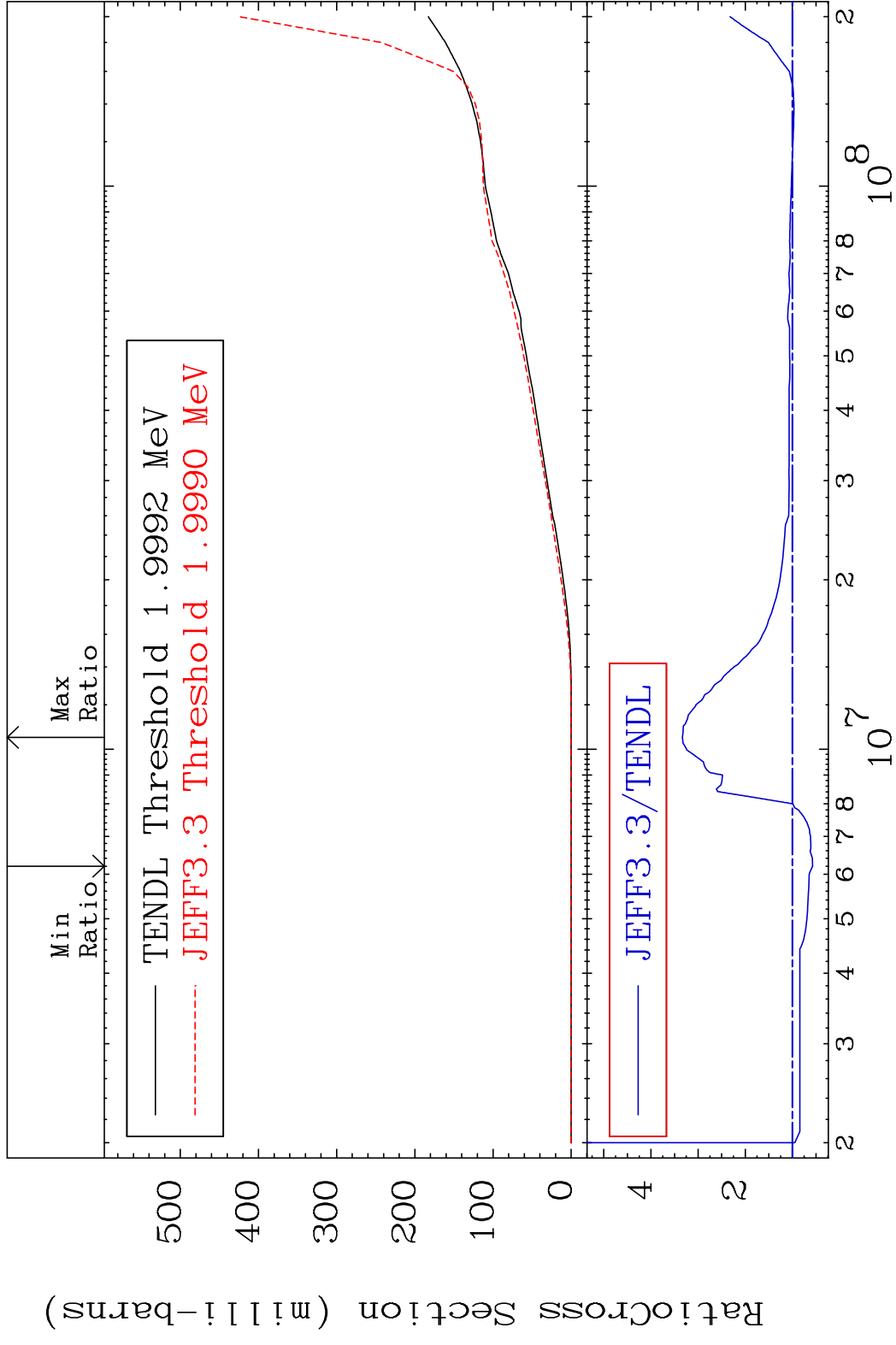
Hydrogen Production
Cross Section -44.94 To 148.9 %

64-Gd-150



MAT 6419

Deuterium Production 64-Gd-150
Cross Section -42.72 To 233.4 %



57

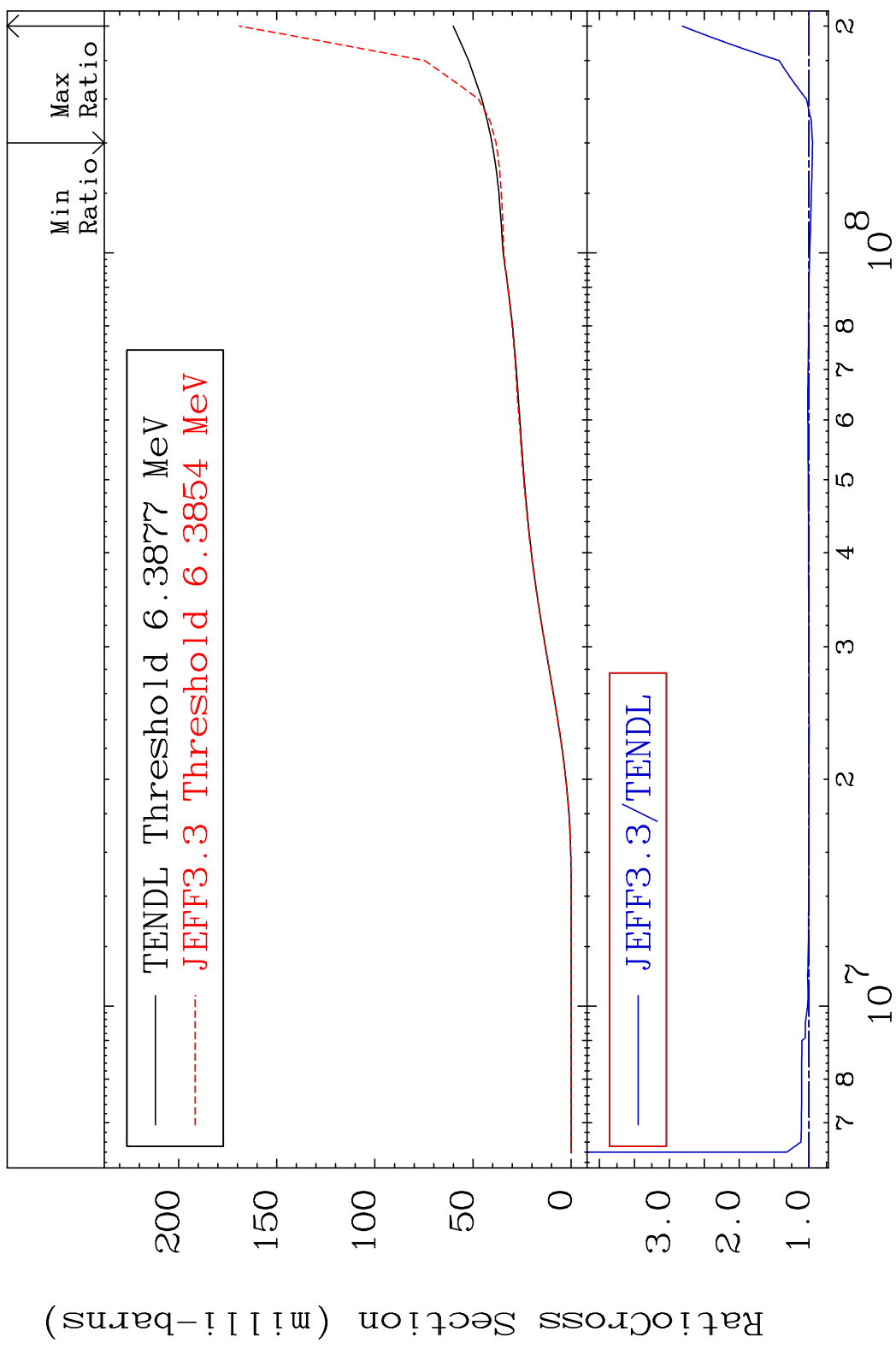
Incident Energy (eV) 64-Gd-150

MAT 6419

Tritium Production

64-Gd-150

Cross Section -5.119 To 181.3 %

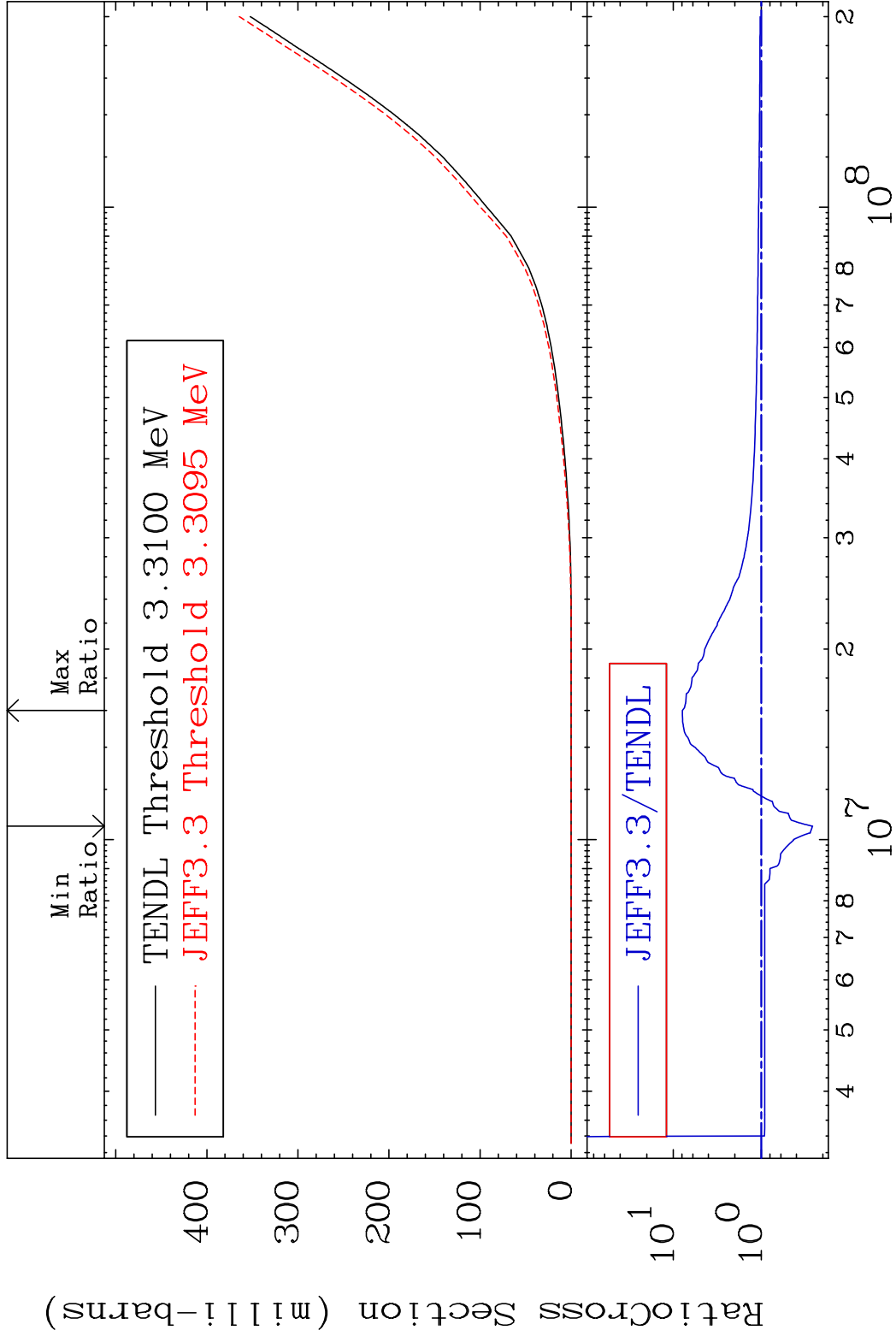


MAT 6419

He-3 Production

64-Gd-150

Cross Section -73.74 To 688.9 %



59

Incident Energy (eV)

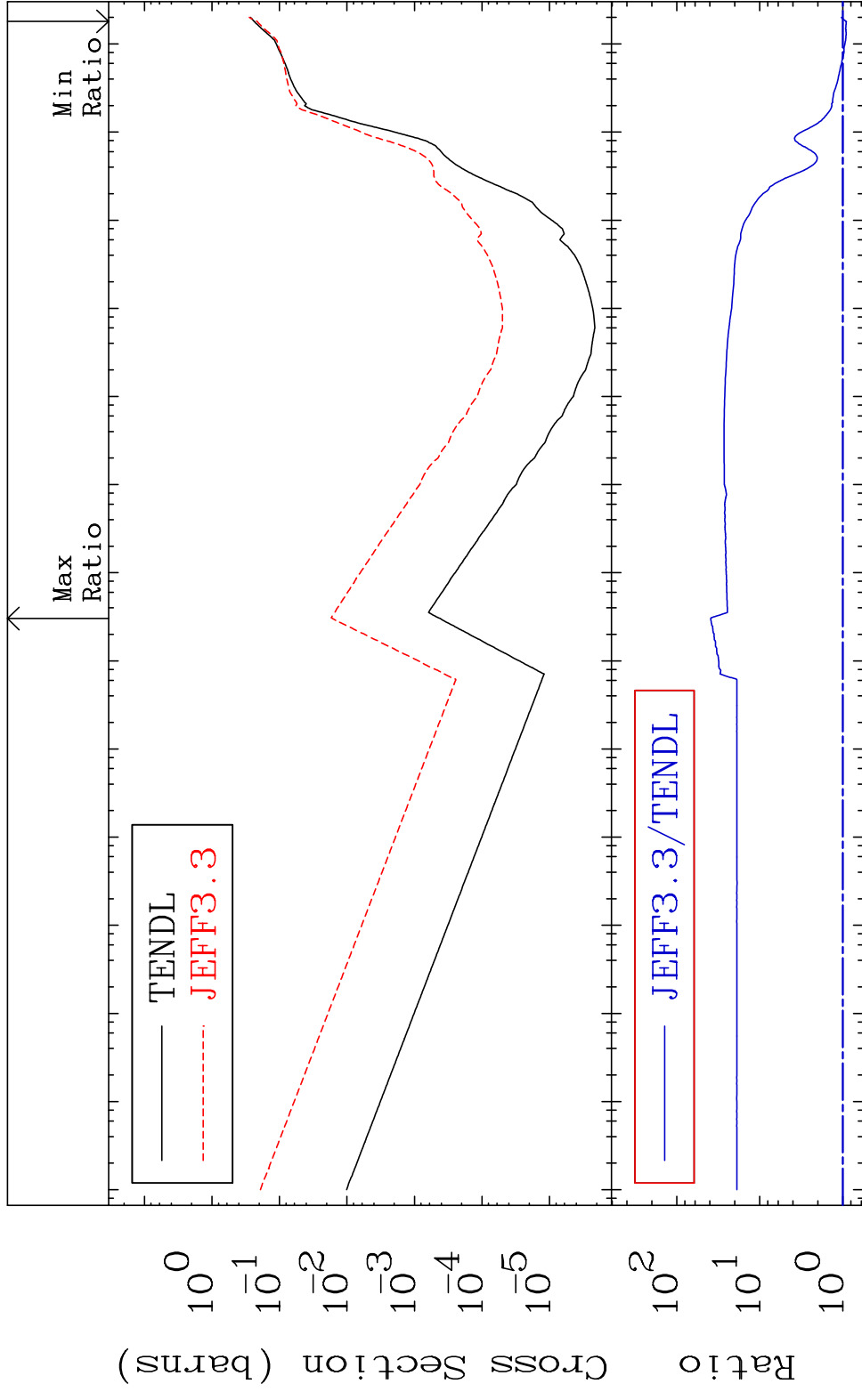
64-Gd-150

MAT 6419

He-4 Production

64-Gd-150

Cross Section -9.273 To 3801. %

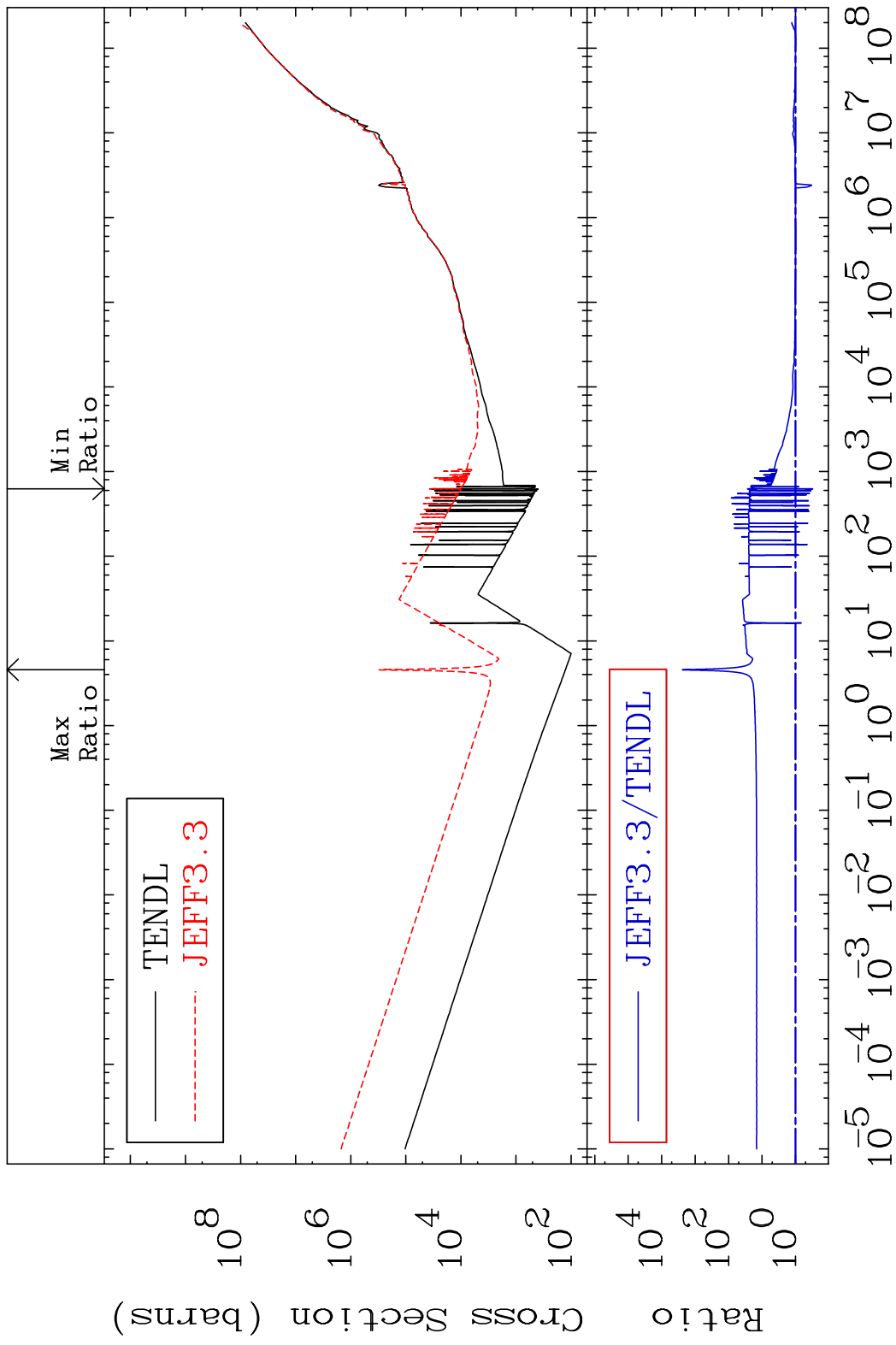


60

Incident Energy (eV)

64-Gd-150

MAT 6419 Kerma total (eV-barns) 64-Gd-150
 Cross Section -69.00 To 9999. %

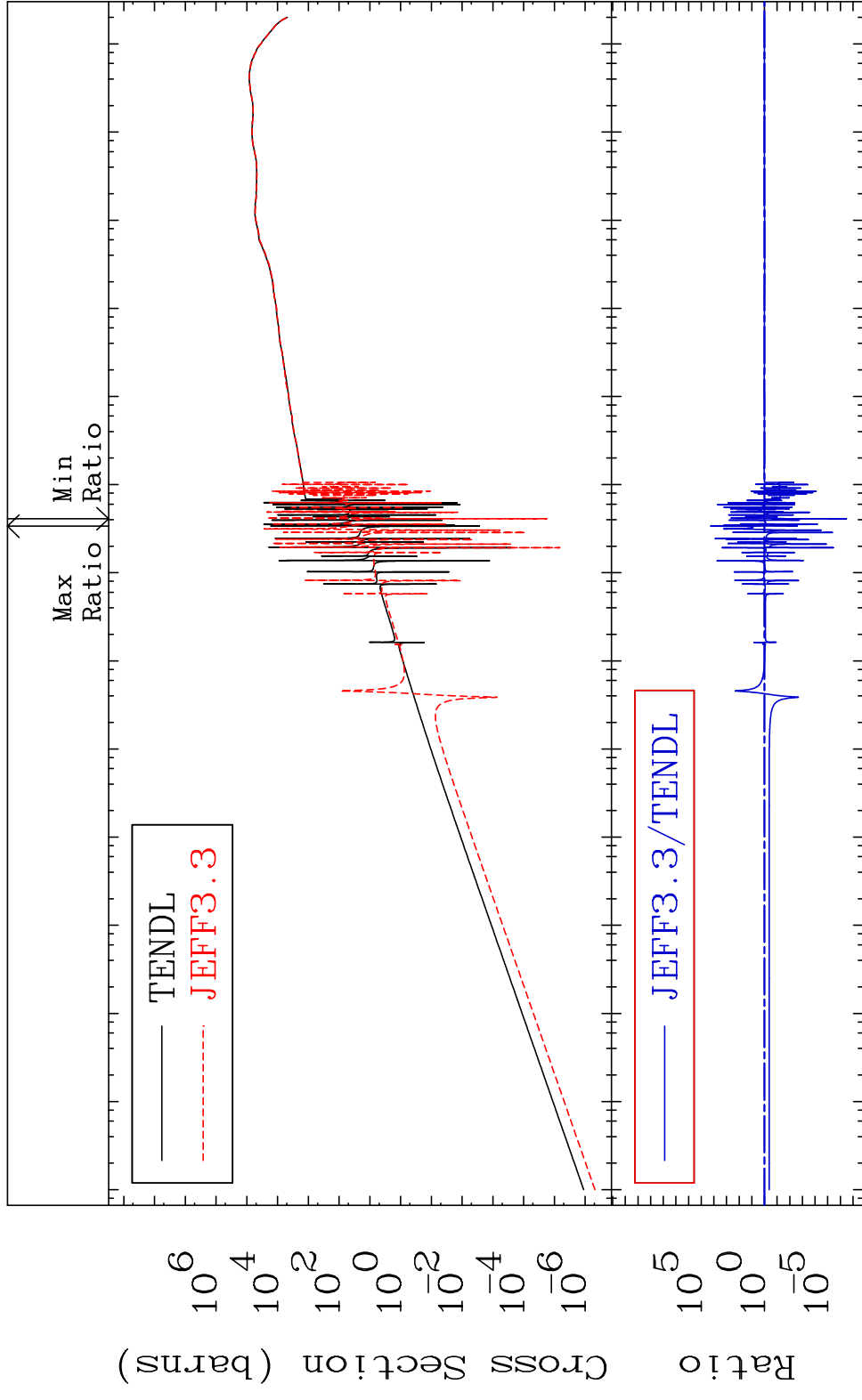


61 Incident Energy (eV) 64-Gd-150

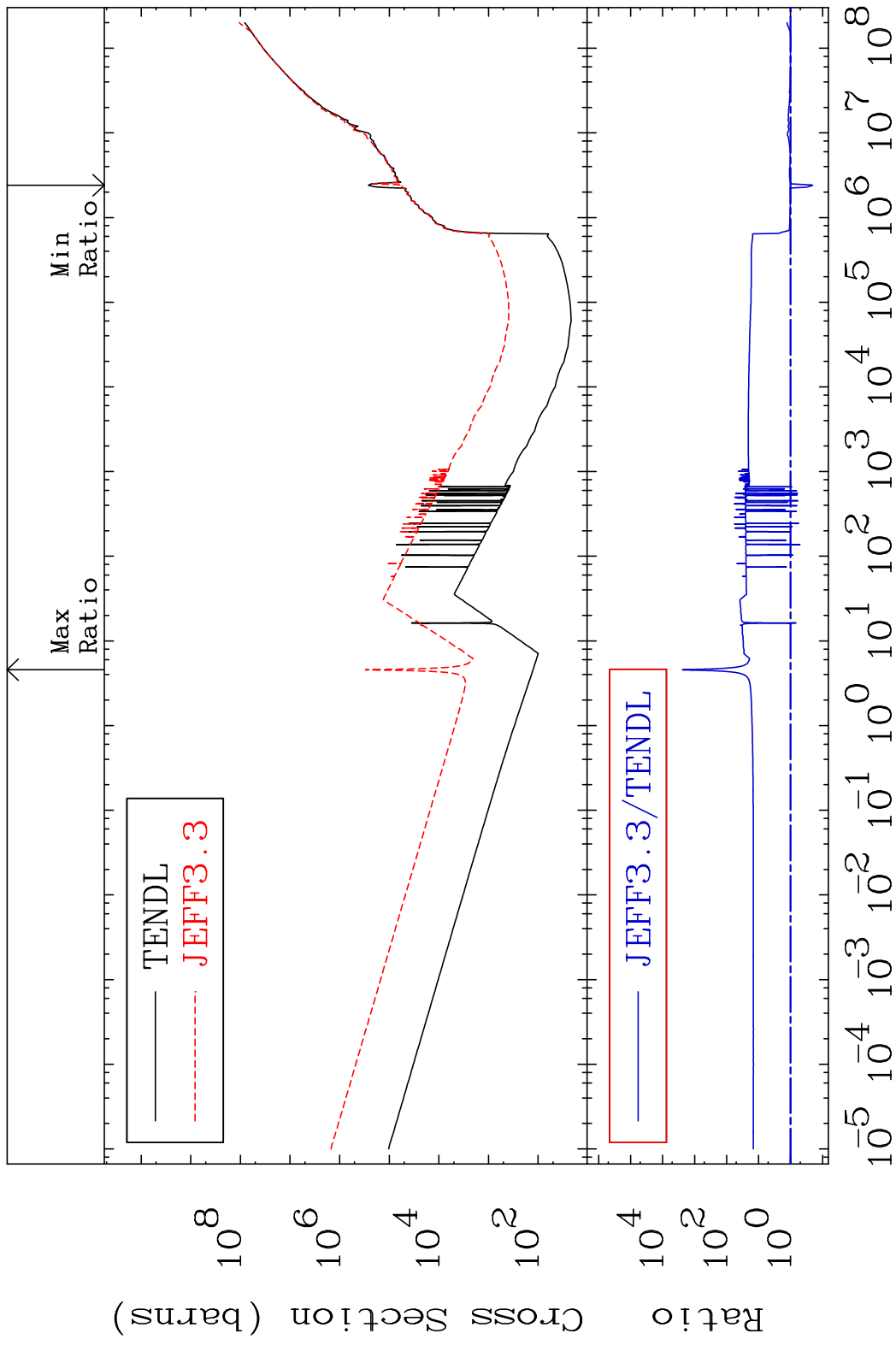
MAT 6419

Kerma elastic
Cross Section -100.0 To 9999. %

64-Gd-150

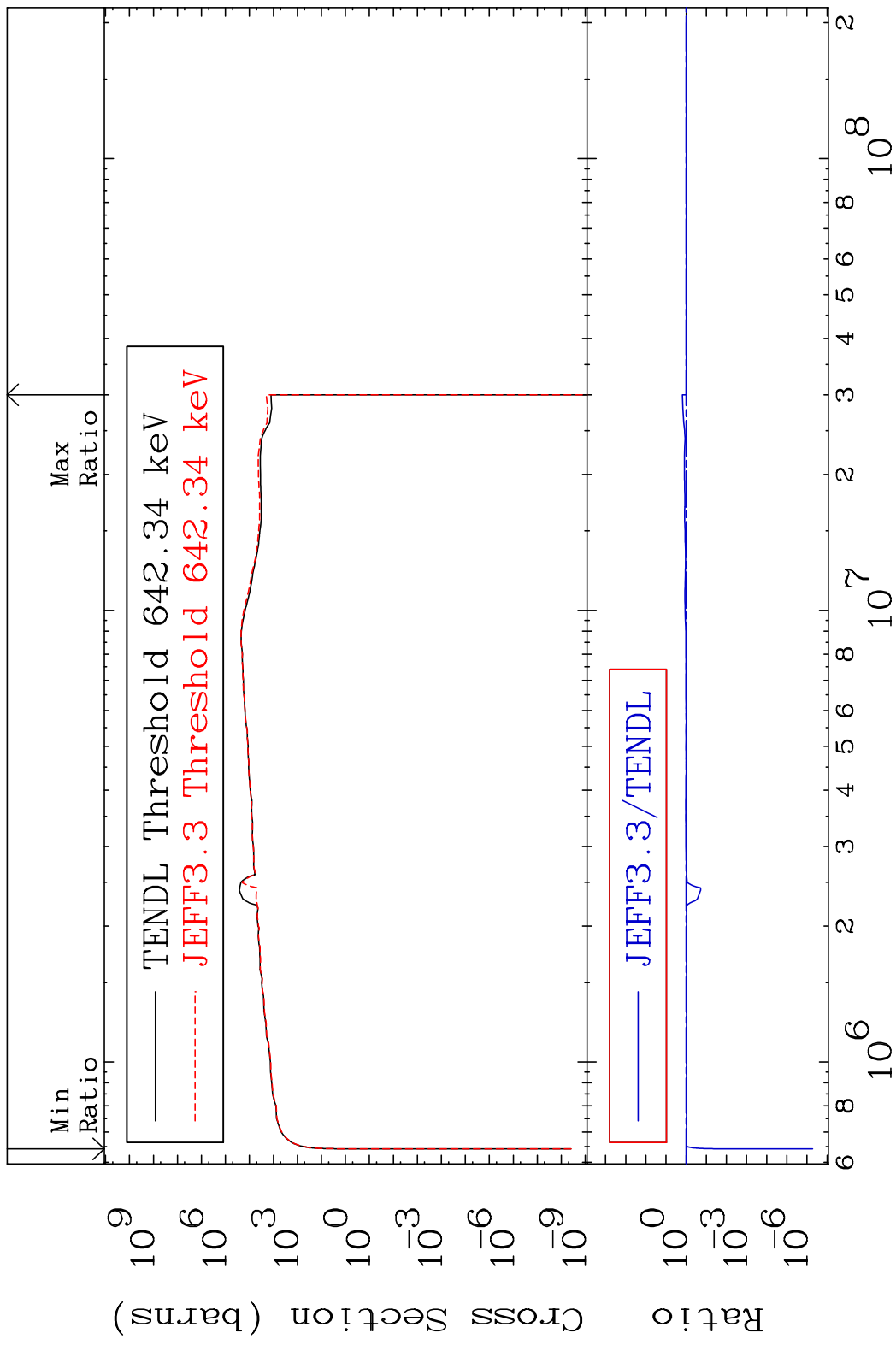


MAT 6419 Kerma non-elastic (all but mt2) 64-Gd-150
 Cross Section -79.46 To 9999. %

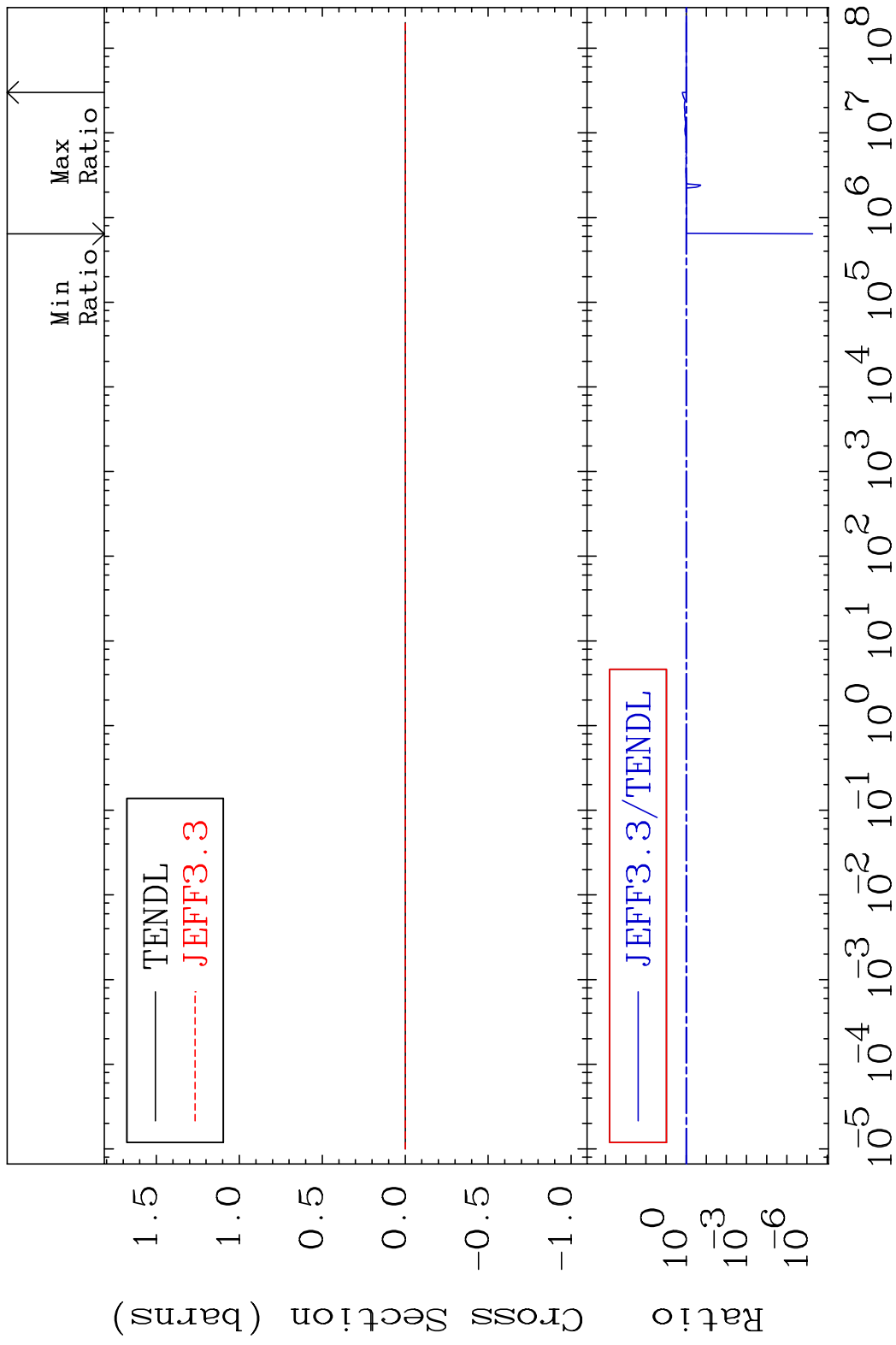


63 Incident Energy (eV) 64-Gd-150

MAT 6419 Kerma inelastic (mt51-91) 64-Gd-150
 Cross Section -100.0 To 54.39 %

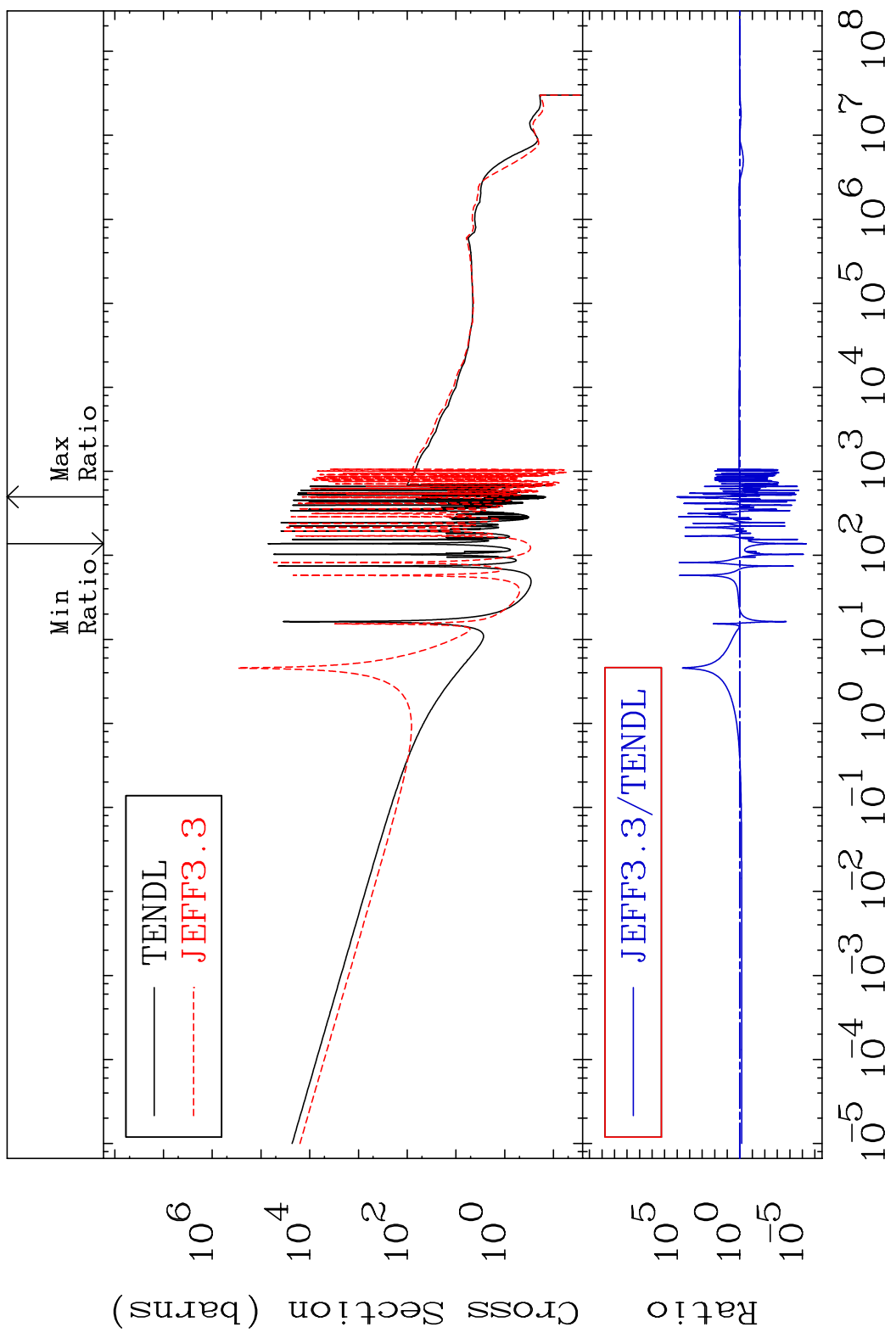


MAT 6419 Kerma fission (mt18 or mt19-20-21-38) 64-Gd-150
 Cross Section -100.0 To 54.39 %



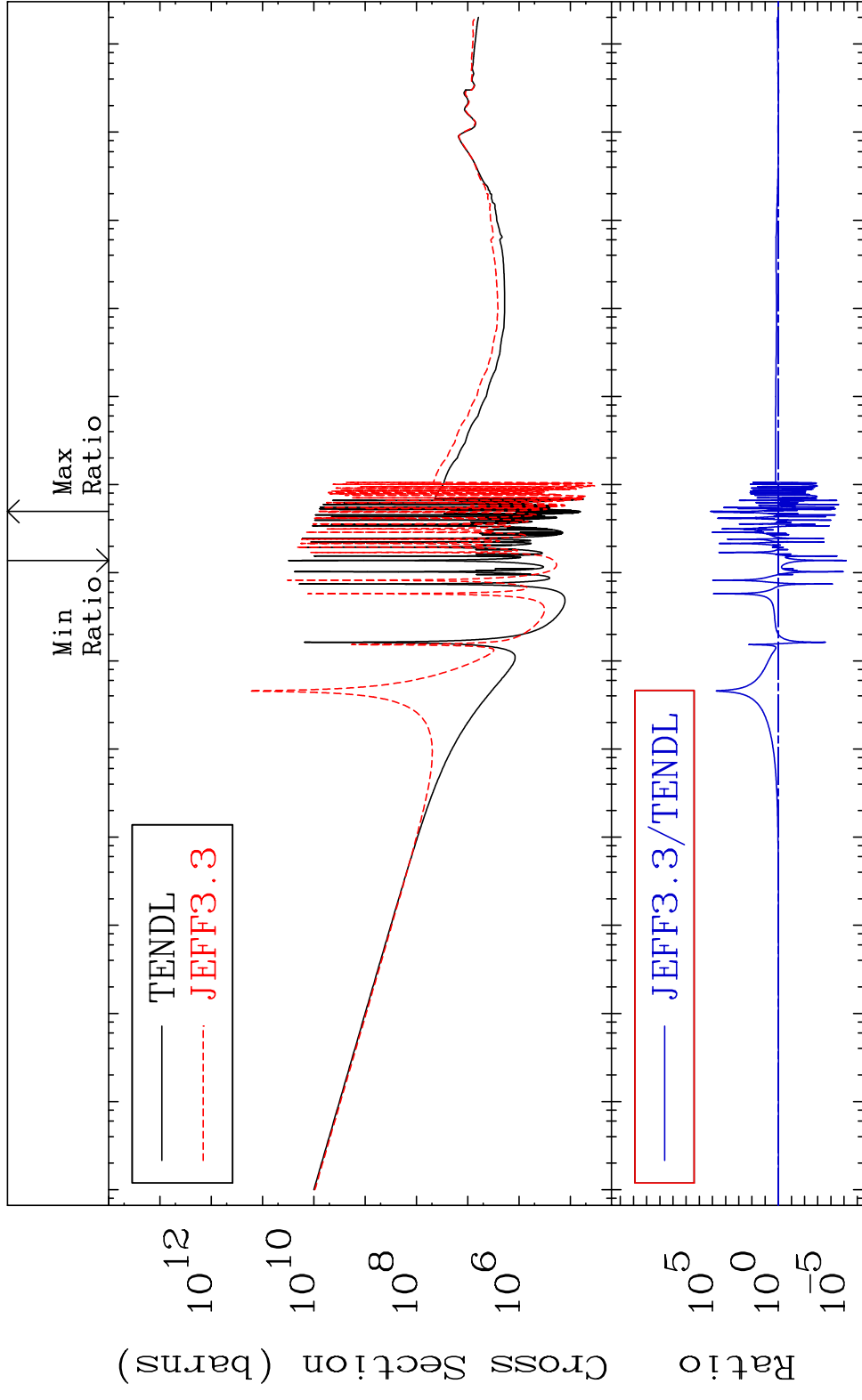
MAT 6419

Kerma capture (mt102) 64-Gd-150
Cross Section -100.0 To 9999. %



MAT 6419

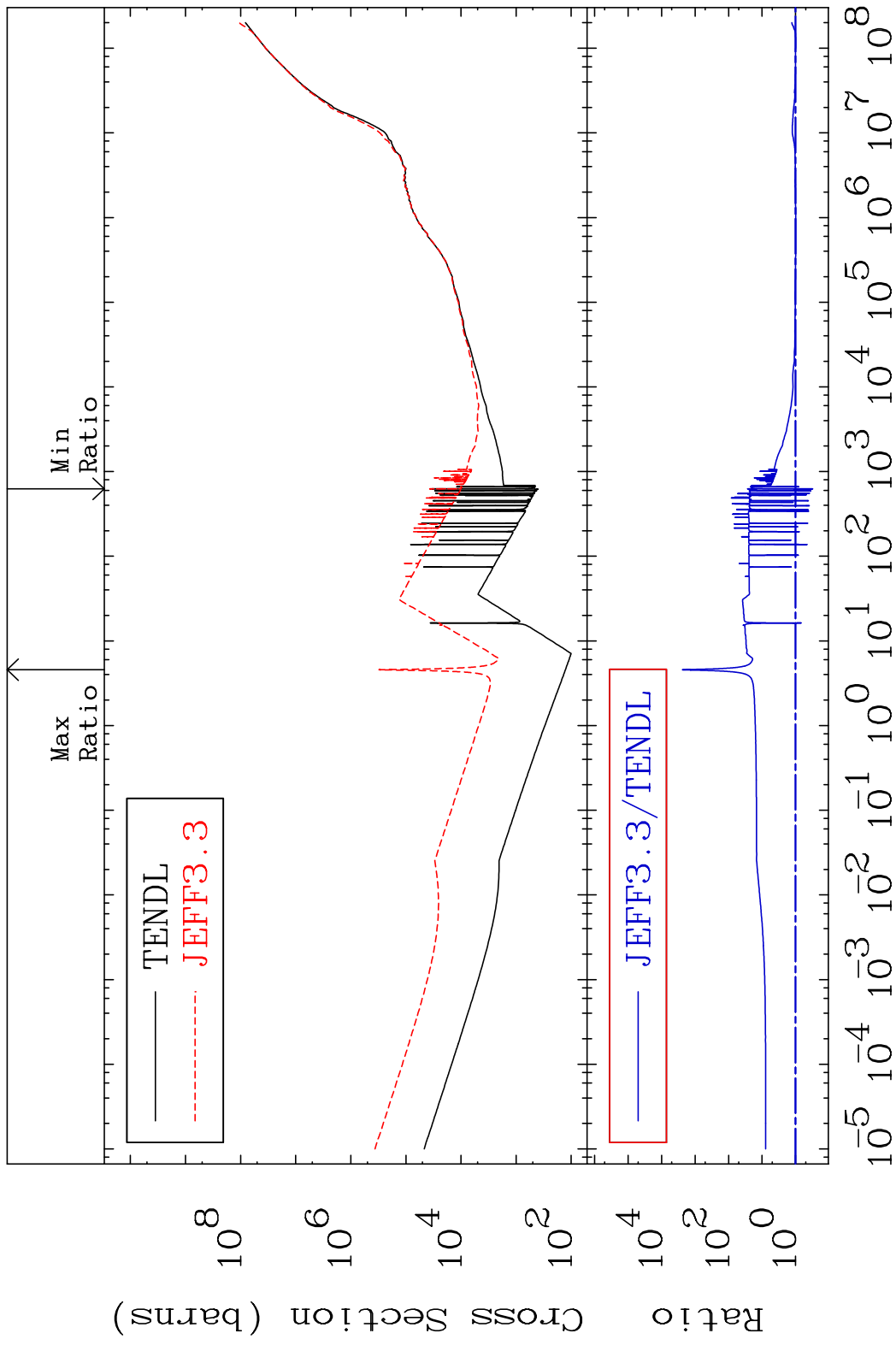
Total photon (eV-barns) 64-Gd-150
Cross Section -100.0 To 9999. %



67

Incident Energy (eV) 64-Gd-150

MAT 6419 Total kinematic kerma (high limit) 64-Gd-150
 Cross Section -68.85 To 9999. %

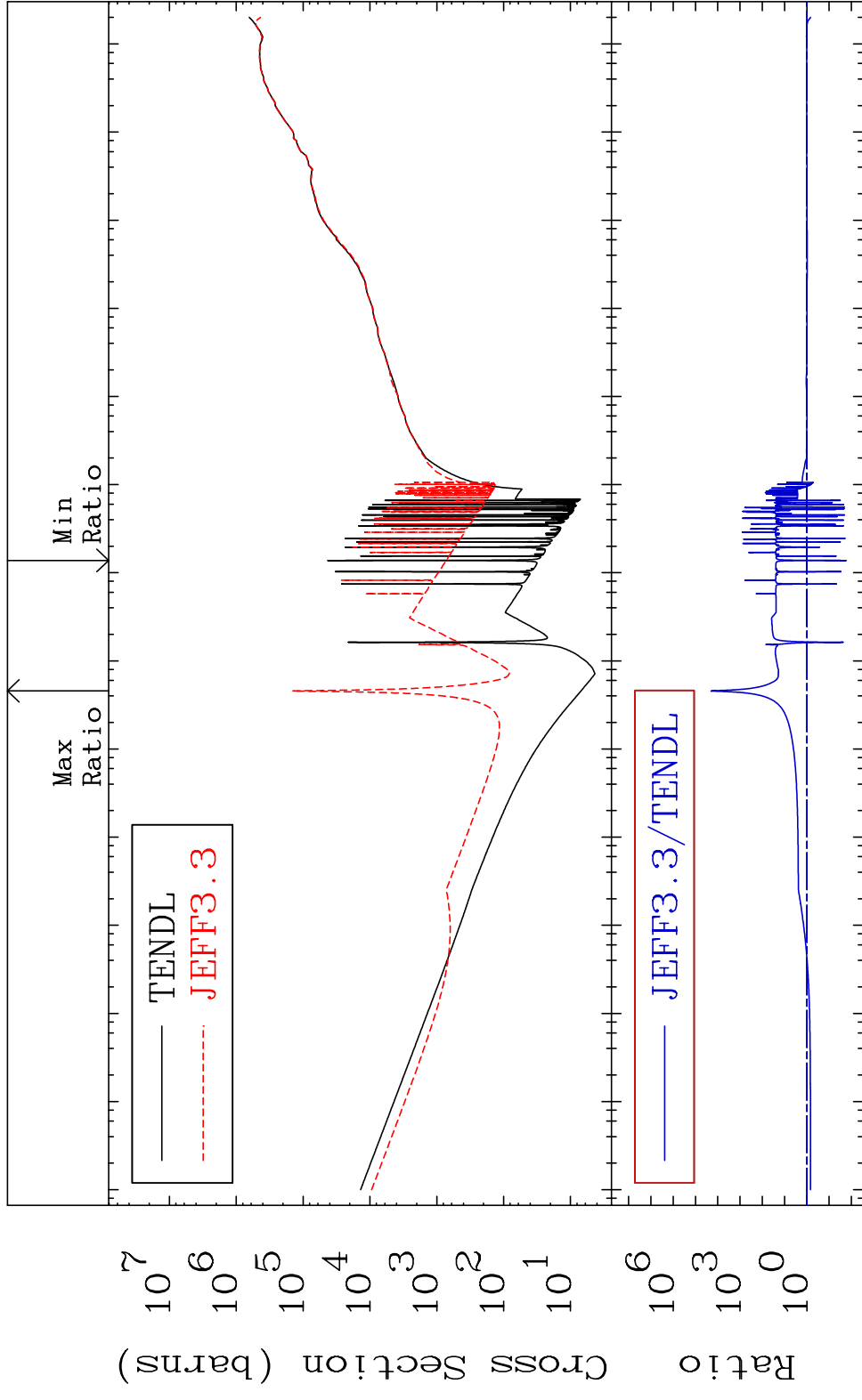


MAT 6419

Dpa total (eV-barns)

64-Gd-150

Cross Section -98.31 To 9999. %



69

Incident Energy (eV)

64-Gd-150

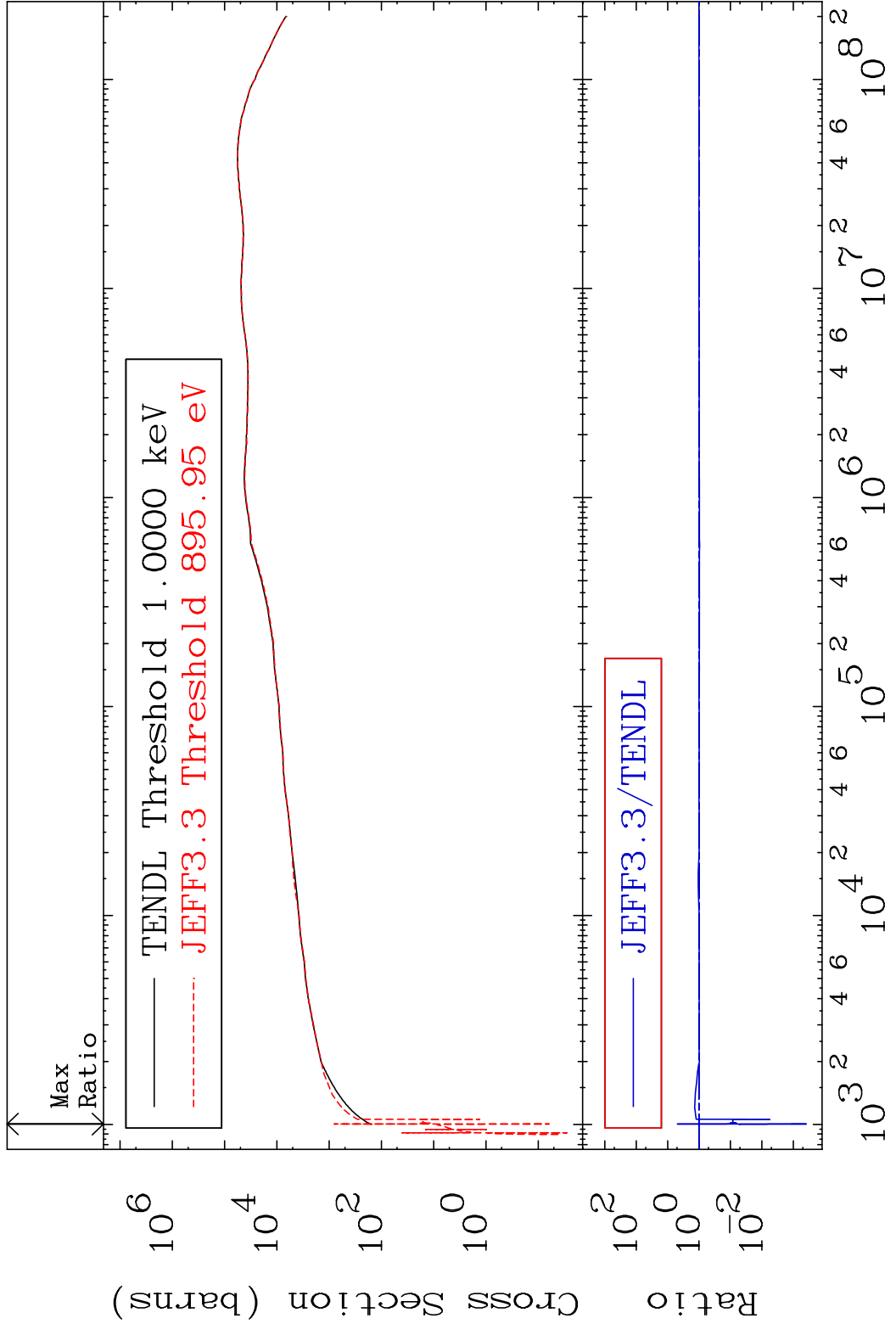
MAT 6419

Dpa elastic (mt2)

64-Gd-150

Cross Section

-99.96 To 396.9 %

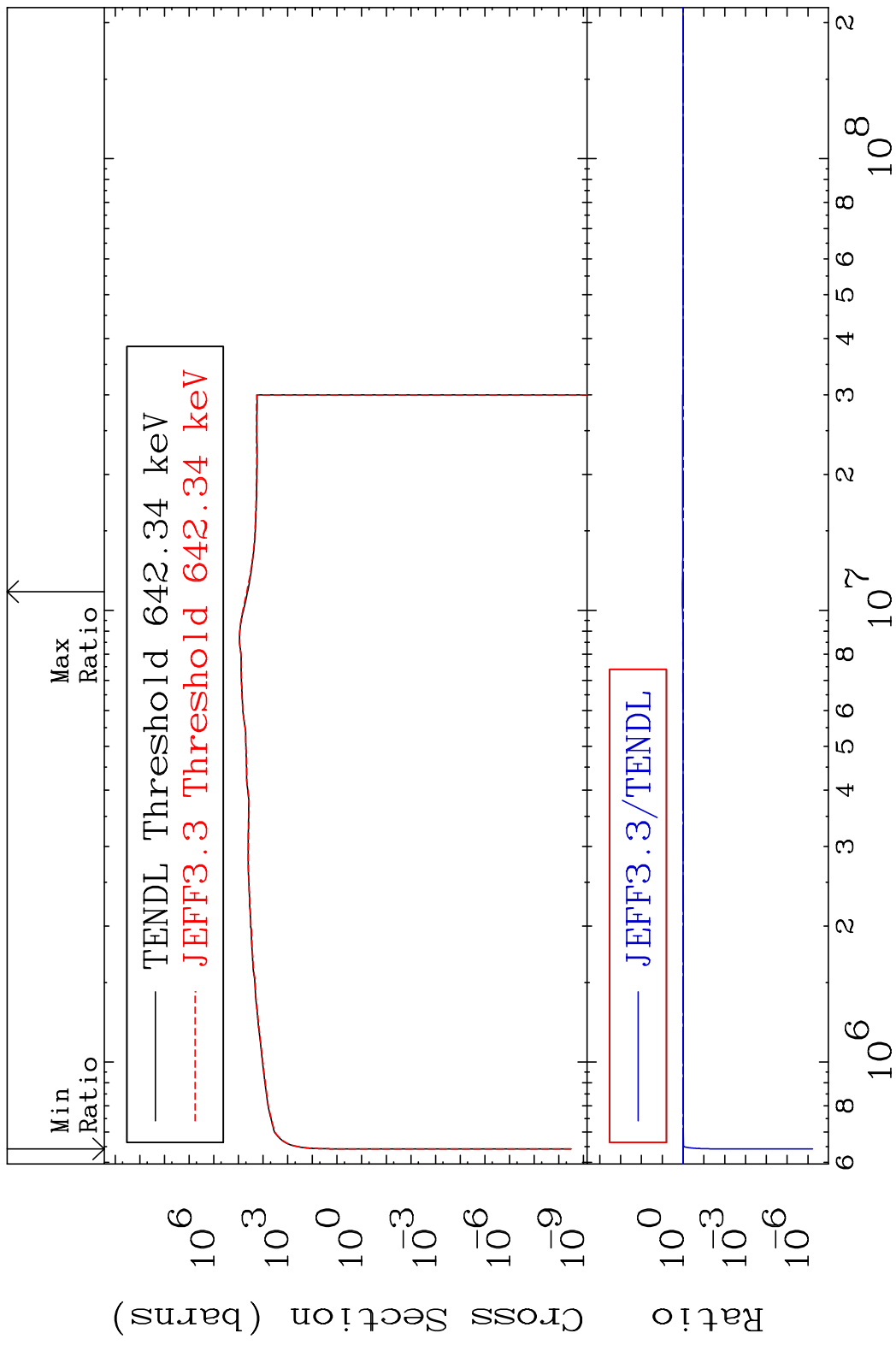


70

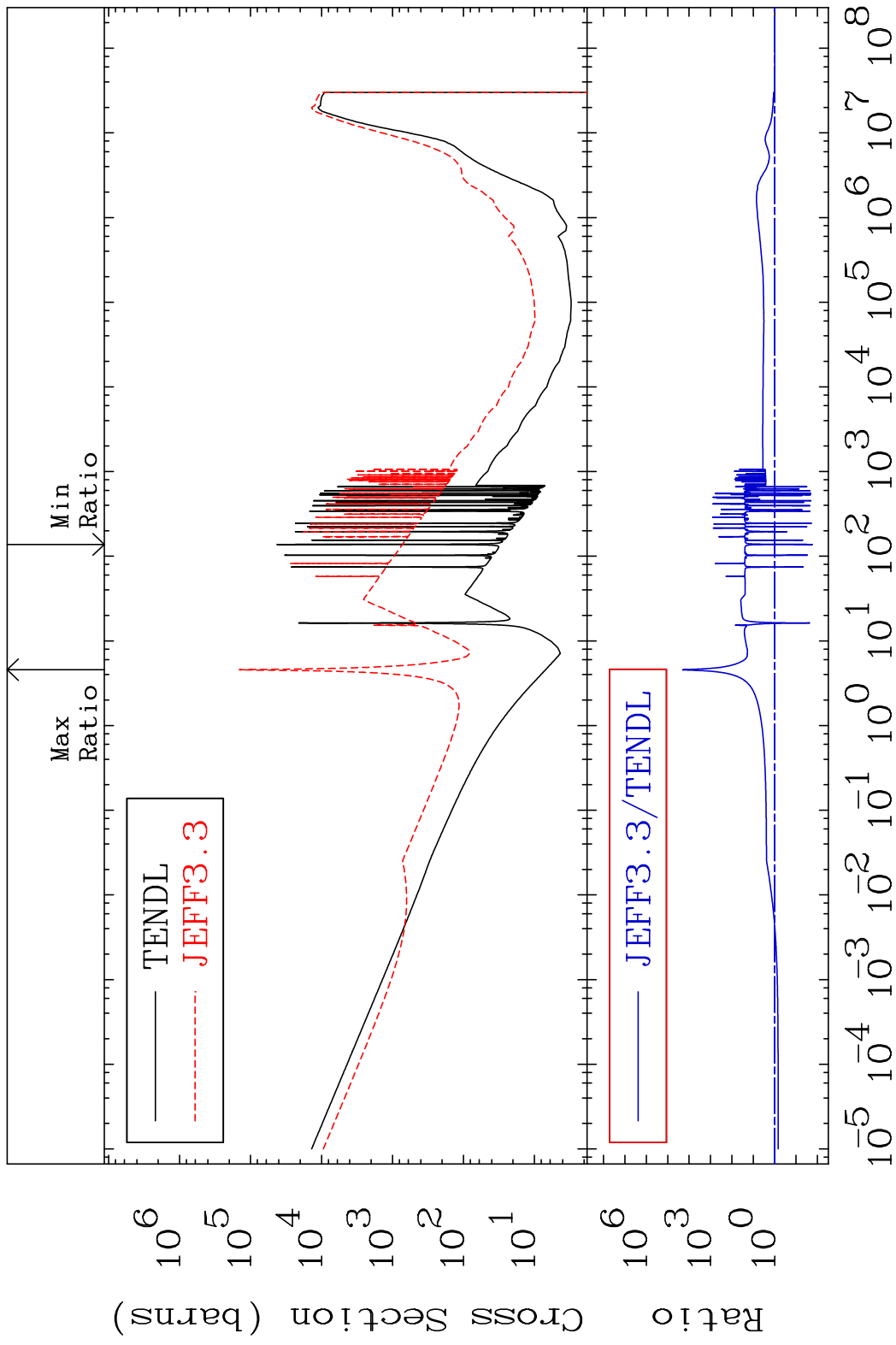
Incident Energy (eV)

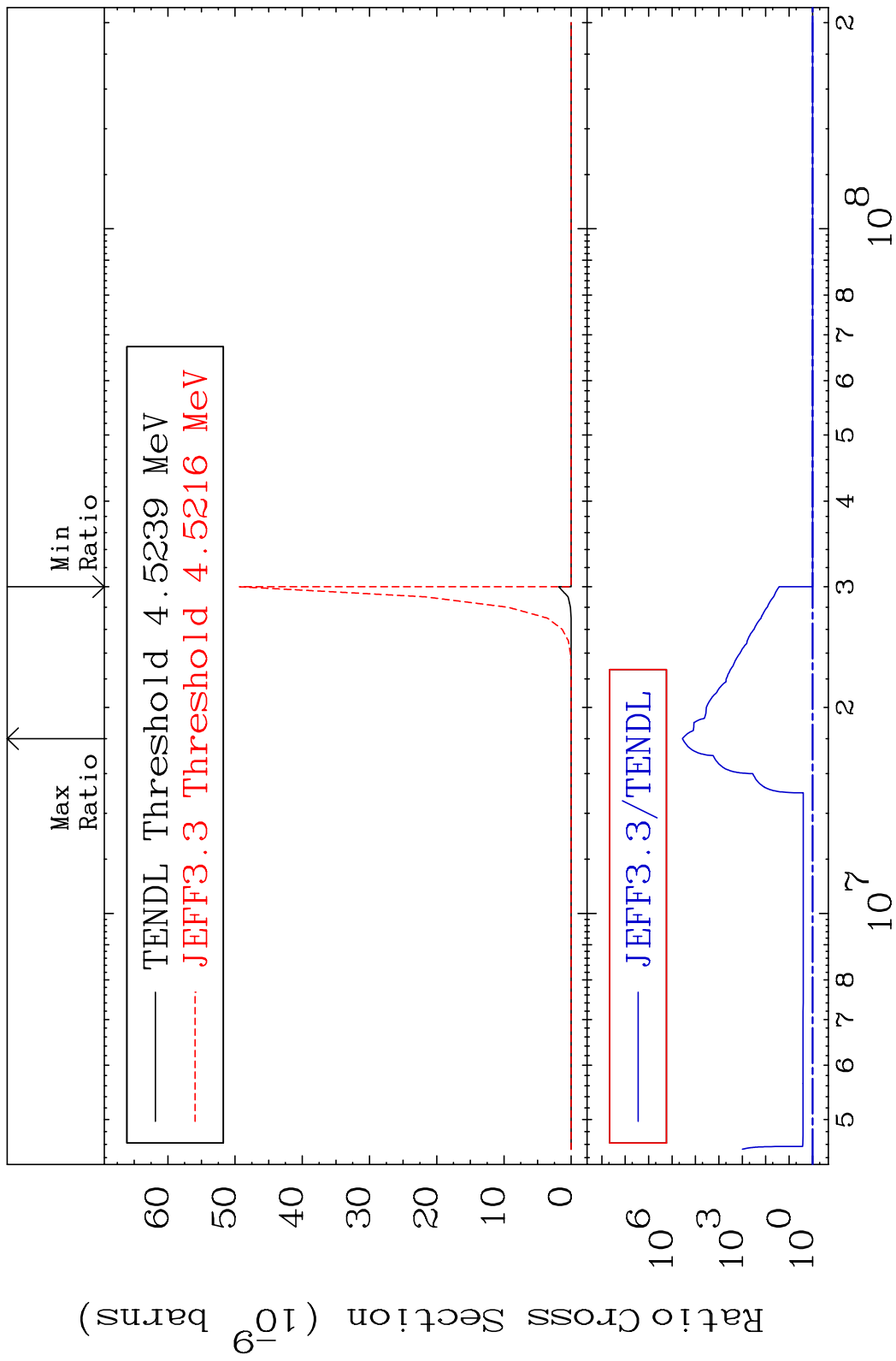
64-Gd-150

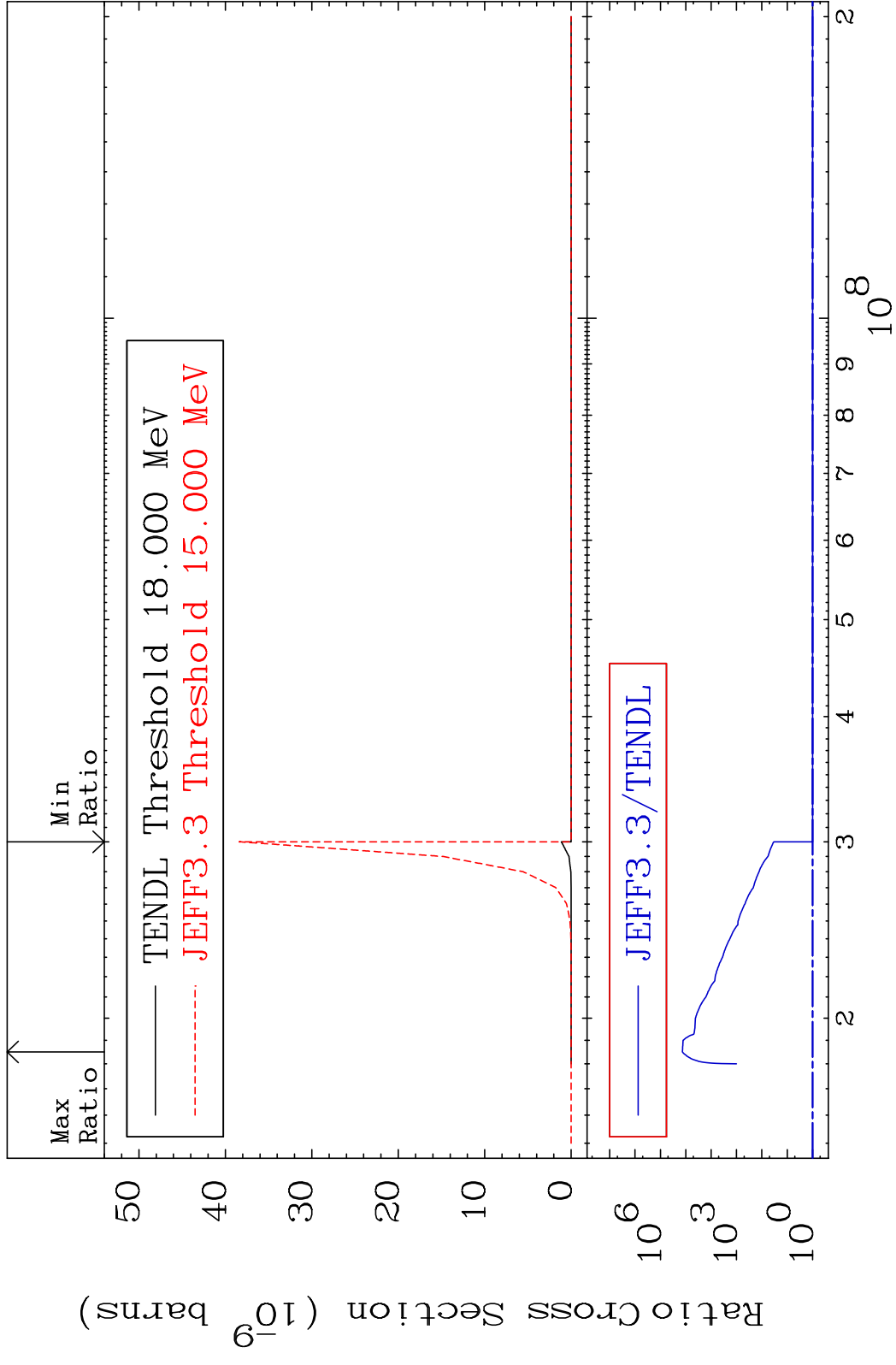
MAT 6419 Dpa inelastic (mt51-91) 64-Gd-150
 Cross Section -100.0 To 7.977 %



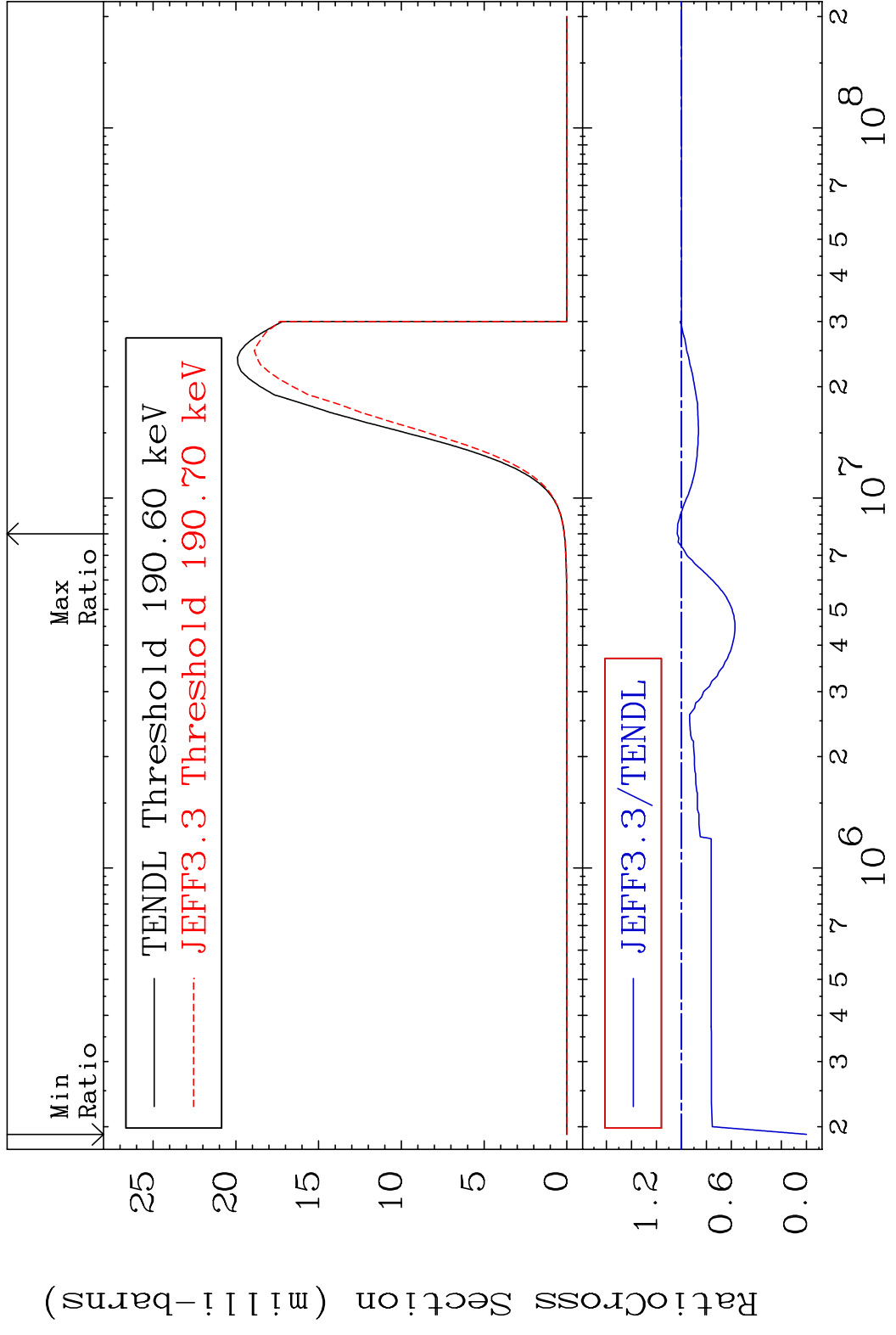
MAT 6419 Dpa disappearance (mt102 -120) 64-Gd-150
 Cross Section -98.31 To 9999. %







MAT 6419 (n,p):63-Eu-150g 64-Gd-150
 Radionuclide Production Cross Section Ratio 3.379 %



MAT 6419 (n, p) : 63-Eu-150m1 64-Gd-150
 Radionuclide Production Cross Section Ratio 7.170 %

