

Program Complot
(Version 2021-1)

by

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(Present Contact Information)

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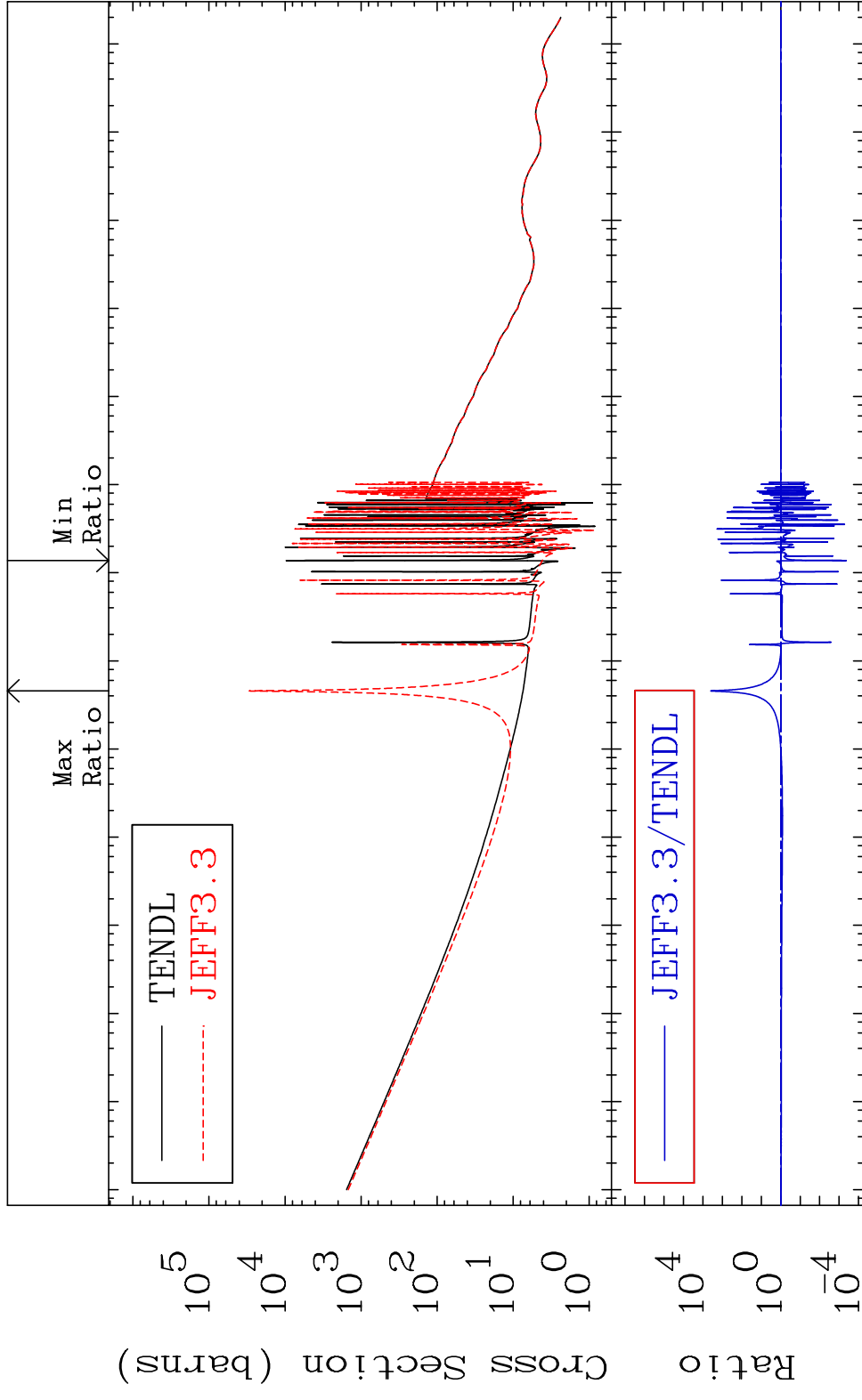
Press Mouse Button to Start

MAT 6419

64-Gd-150

Total

Cross Section -99.96 To 9999. %



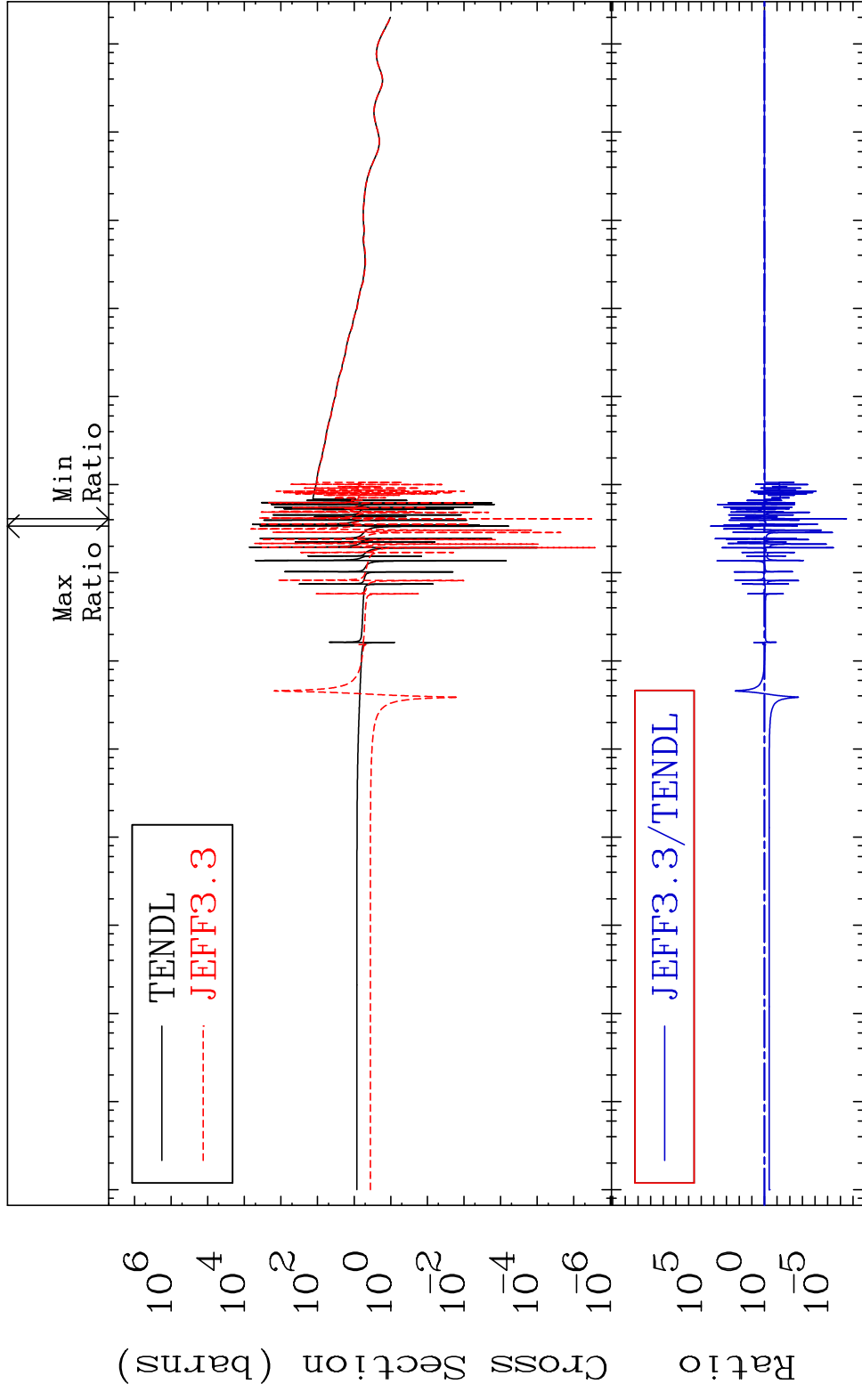
1

Incident Energy (eV)

64-Gd-150

MAT 6419

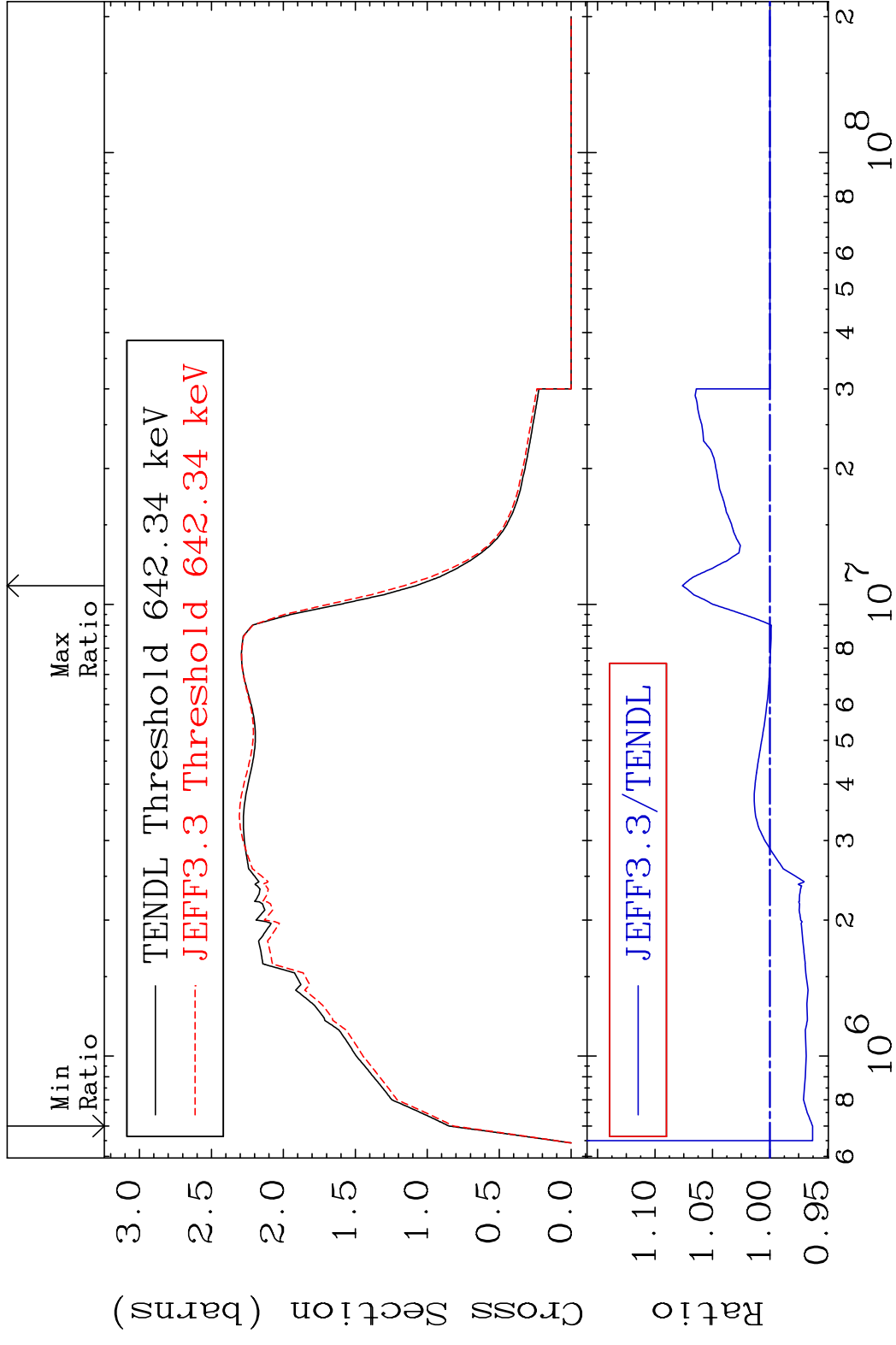
Elastic
Cross Section -100.0 To 9999. %
64-Gd-150



2

Incident Energy (eV) 64-Gd-150

MAT 6419 Inelastic 64-Gd-150
 Cross Section -3.709 To 7.620 %

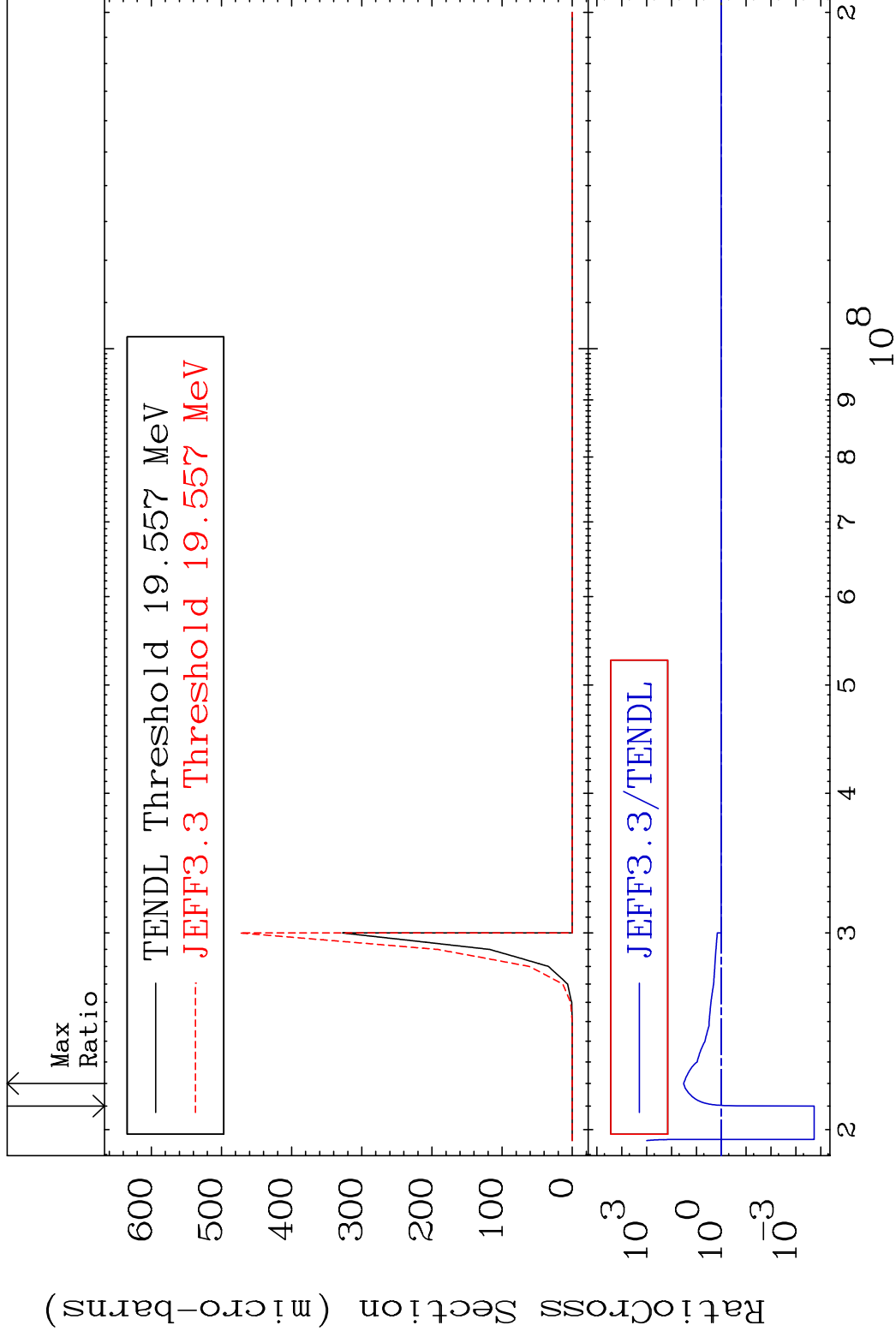


MAT 6419

(n,2n) d

64-Gd-150

Cross Section -99.98 To 3158. %



4

Incident Energy (eV)

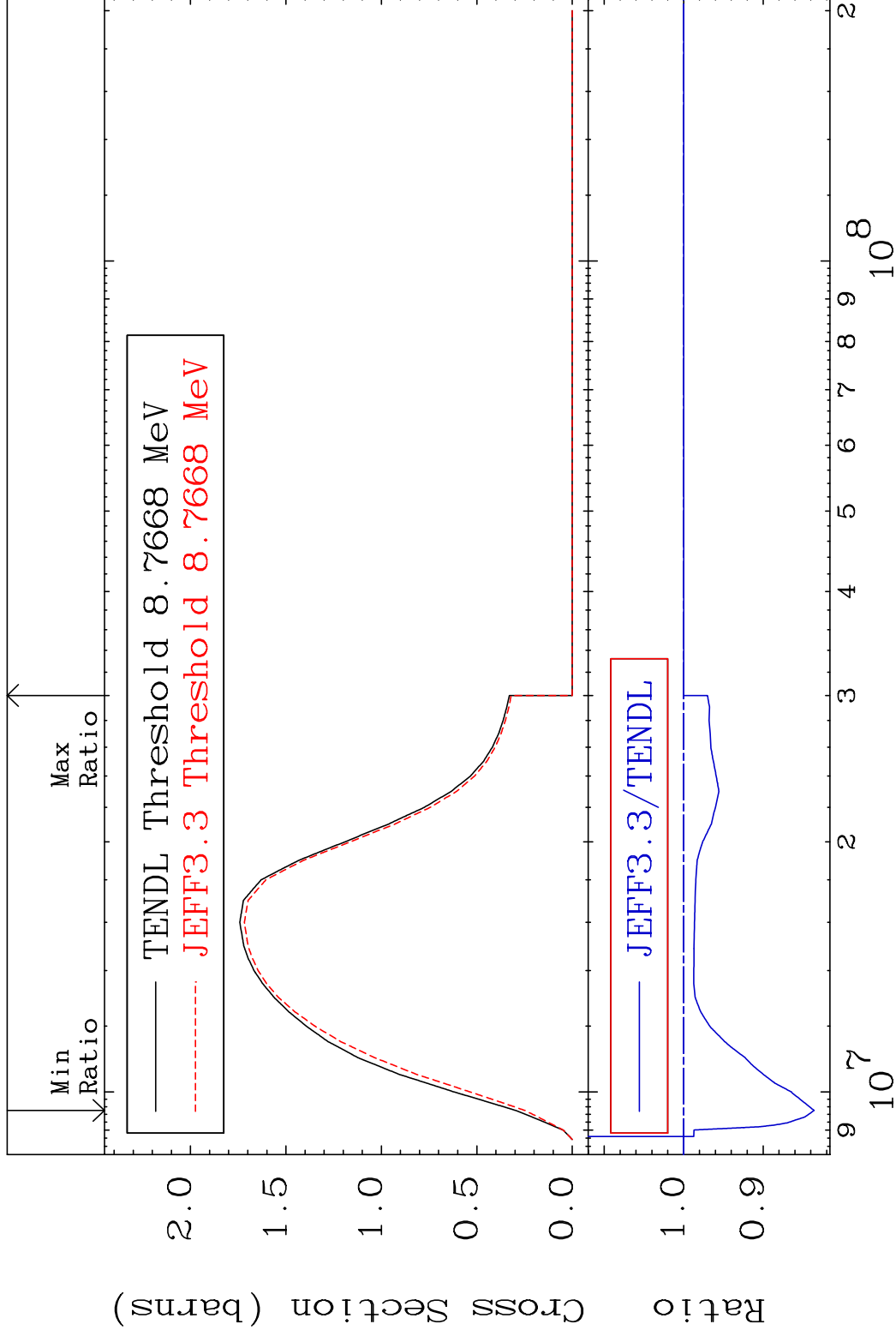
64-Gd-150

MAT 6419

(n,2n)

64-Gd-150

Cross Section -16.42 To 0.000 %



5

Incident Energy (eV)

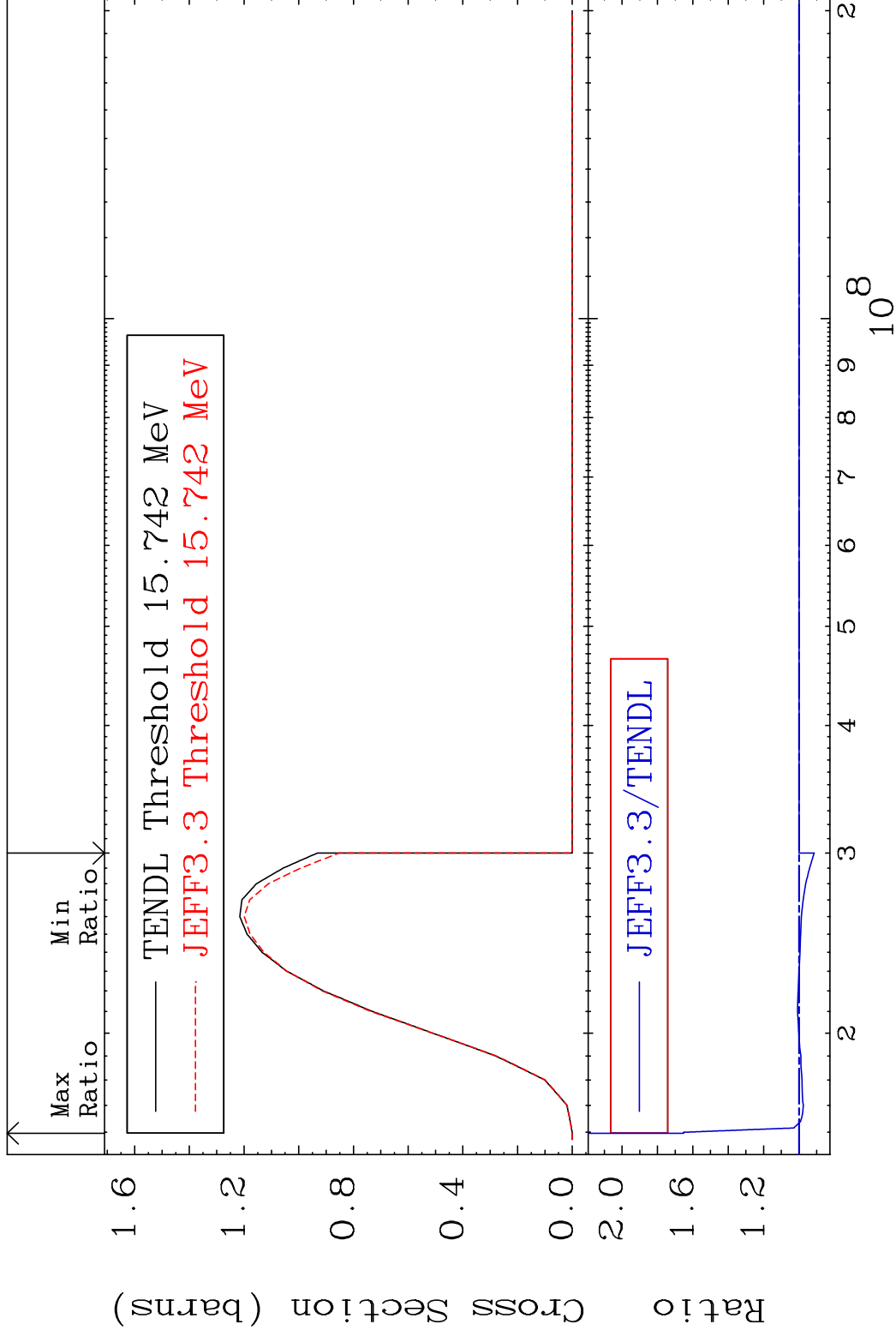
64-Gd-150

MAT 6419

(n,3n)

64-Gd-150

Cross Section -8.561 To 65.19 %



6

Incident Energy (eV)

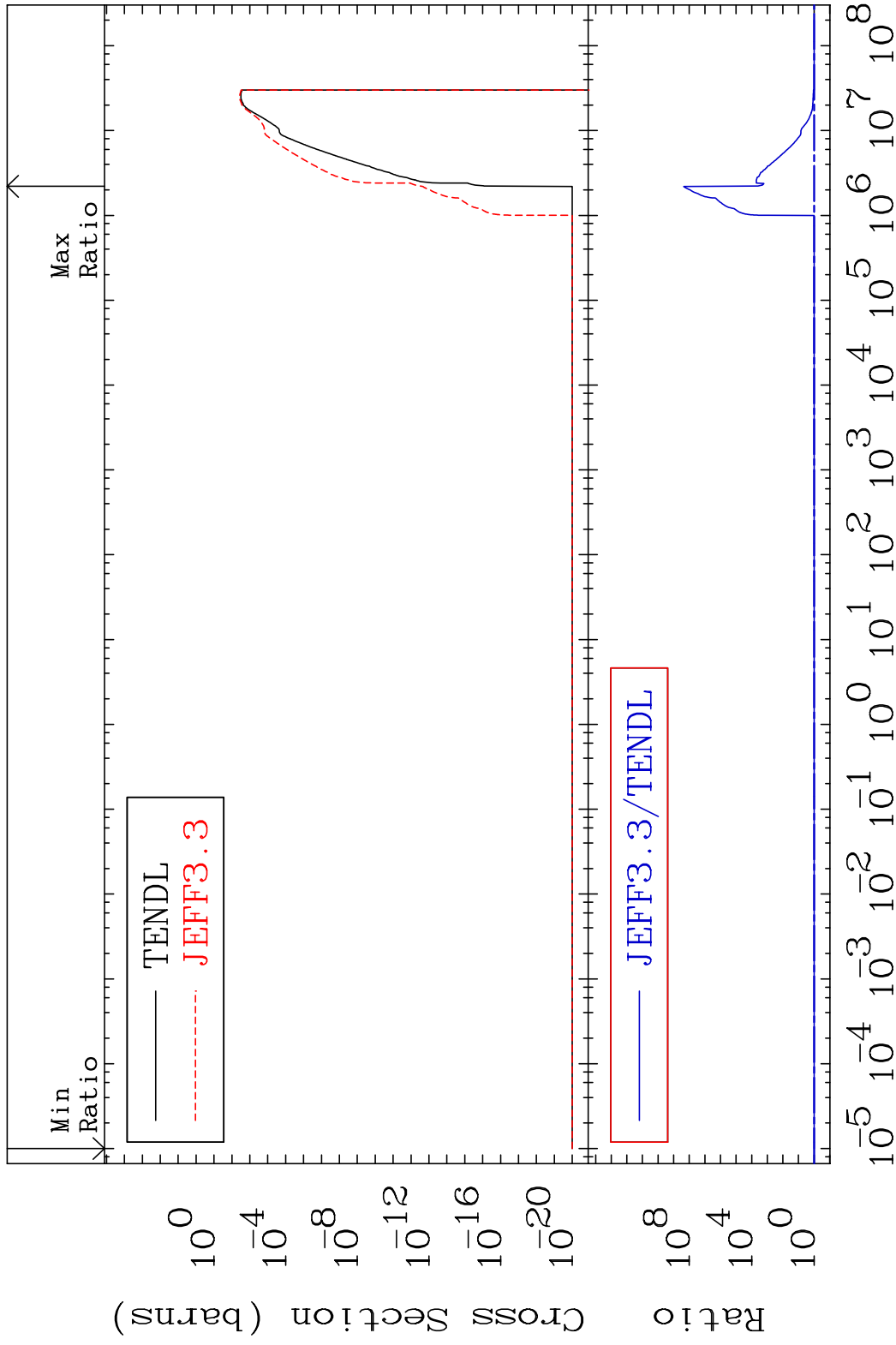
64-Gd-150

MAT 6419

(n, n') α

64-Gd-150

Cross Section 0.000 To 9999. %

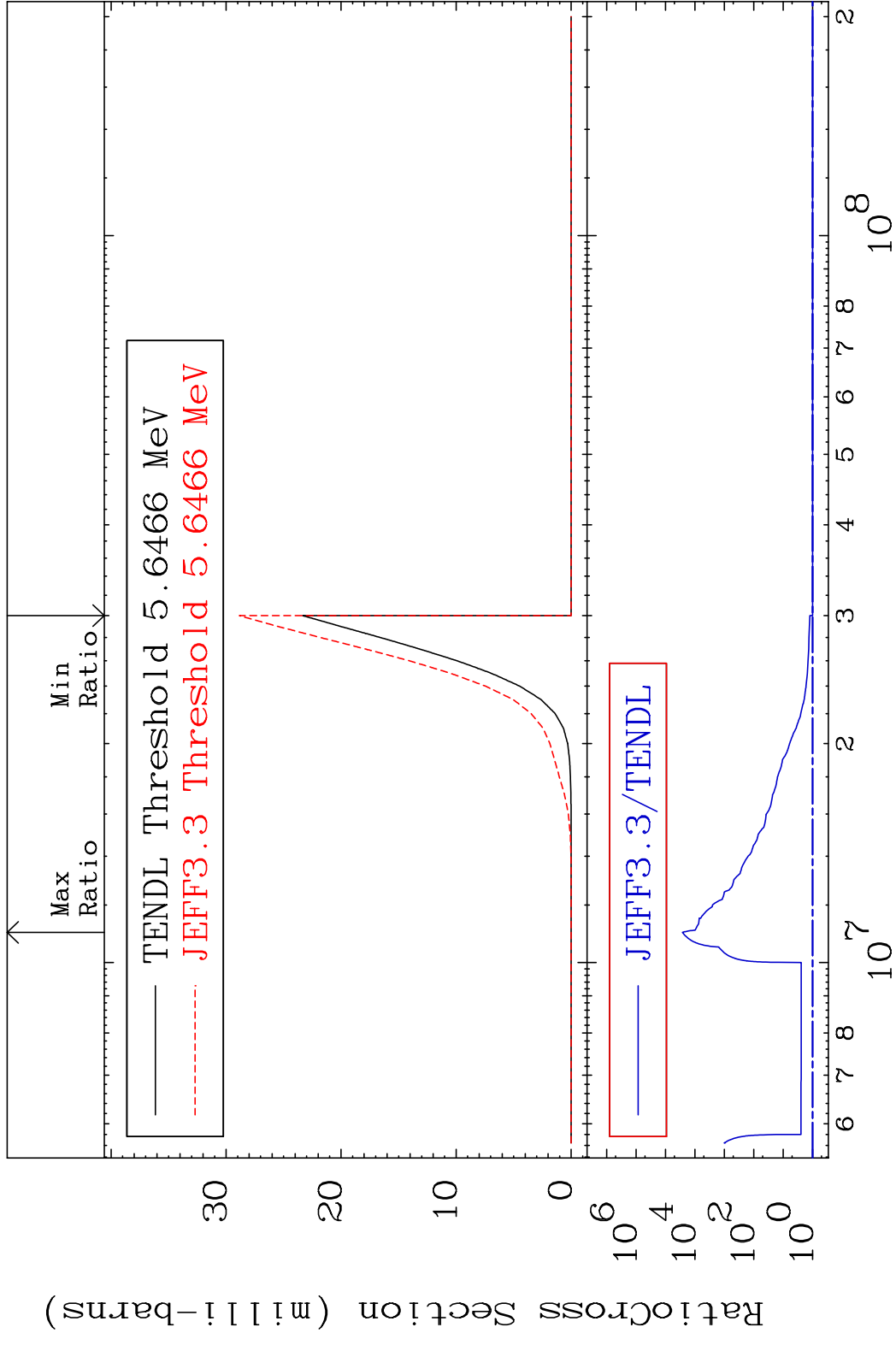


7

Incident Energy (eV)

64-Gd-150

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



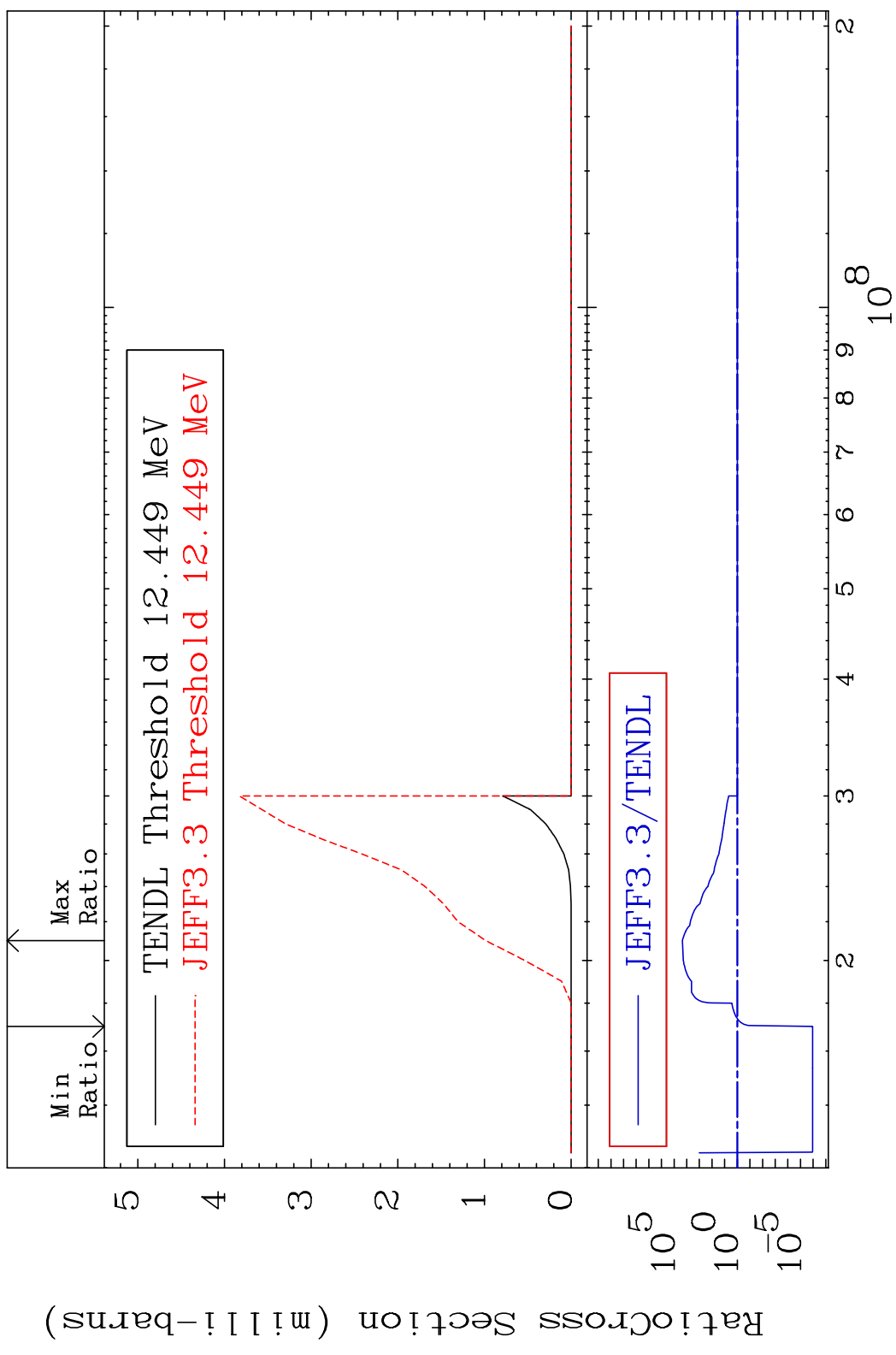
8 Incident Energy (eV) 64-Gd-150

MAT 6419

(n,3n) α

64-Gd-150

Cross Section -100.0 To 9999. %

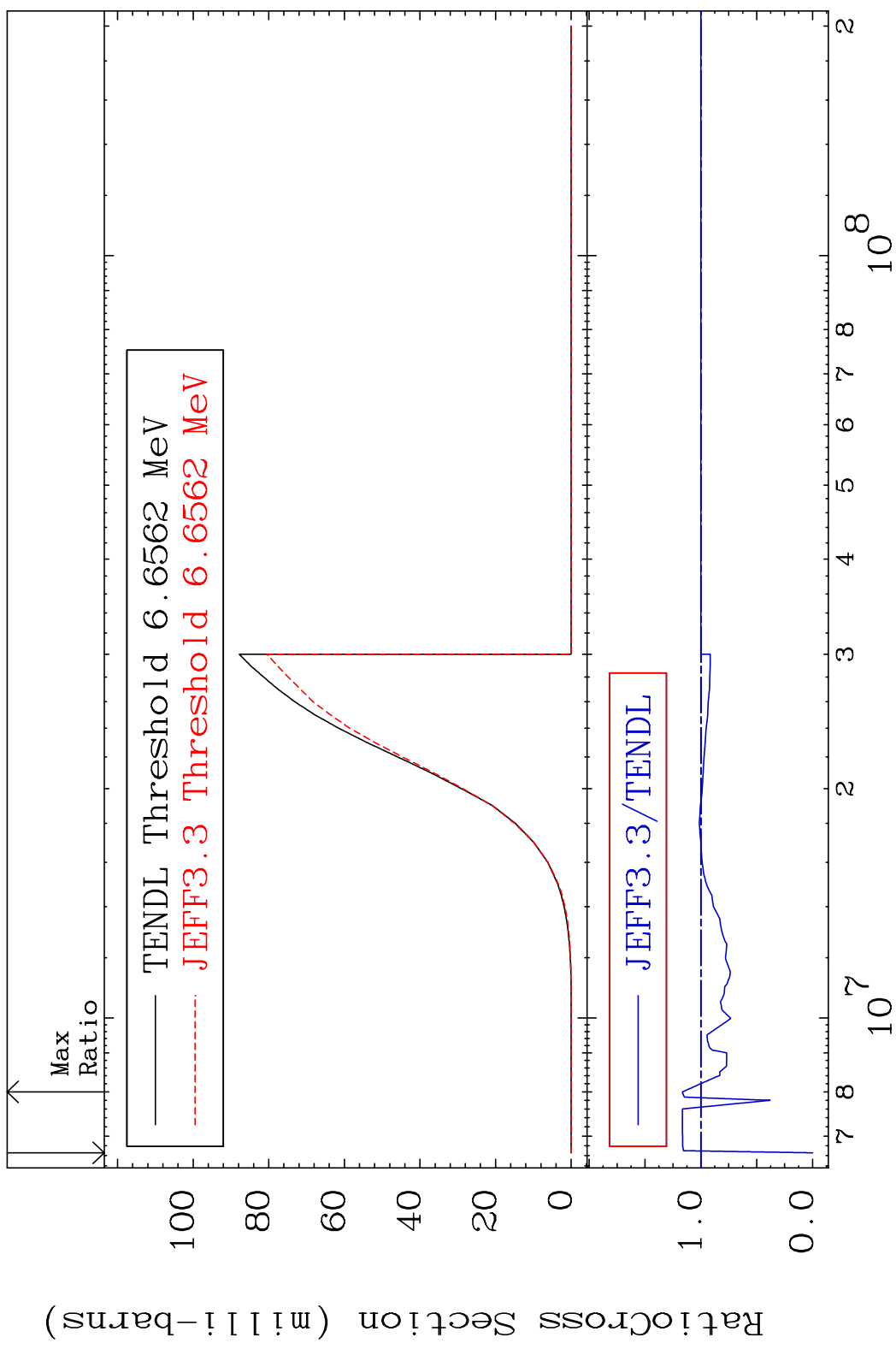


MAT 6419

(n, n') p

64-Gd-150

Cross Section -100.0 To 16.57 %



10

Incident Energy (eV)

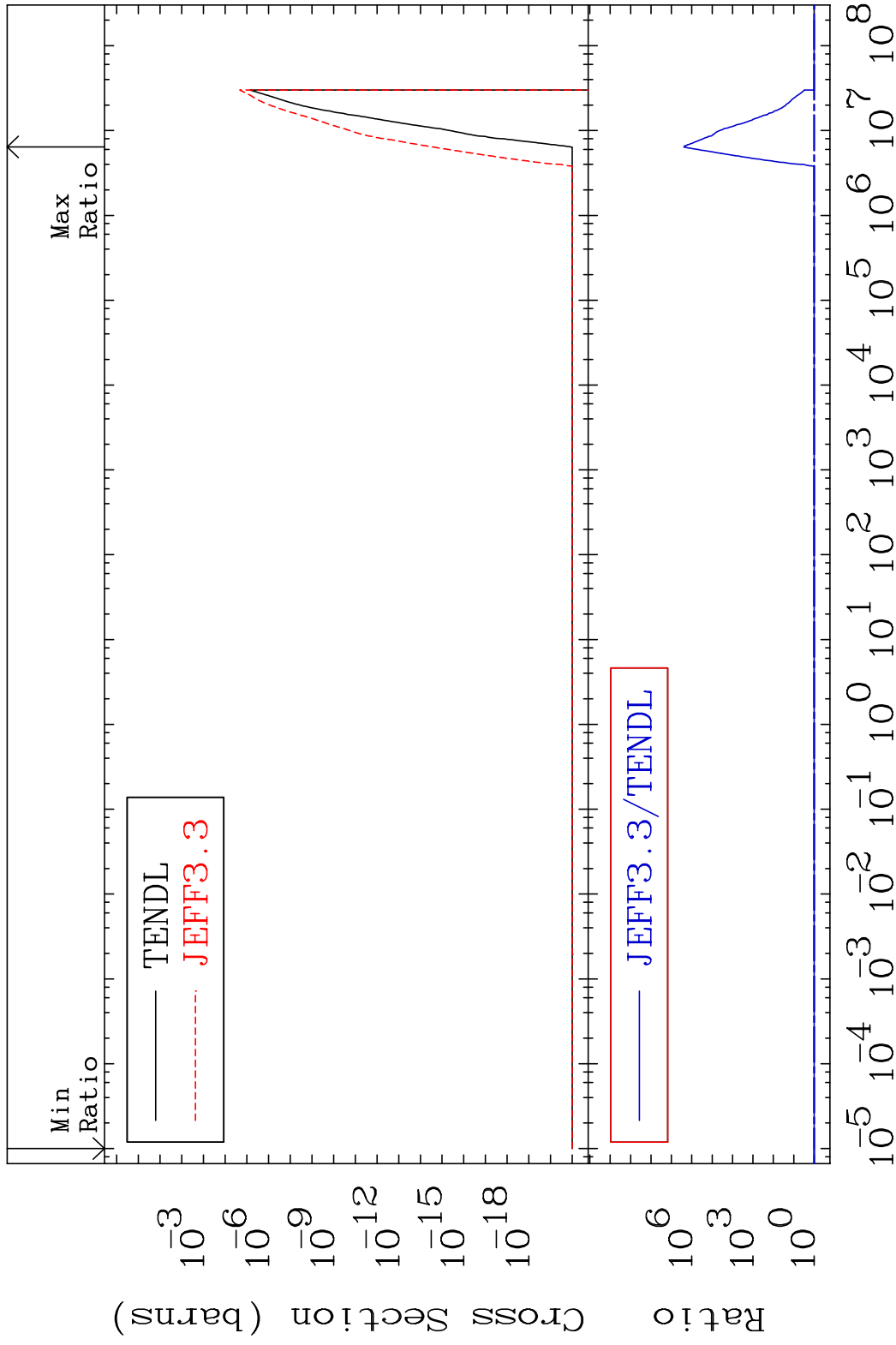
64-Gd-150

MAT 6419

(n, n') 2α

64-Gd-150

Cross Section 0.000 To 9999. %

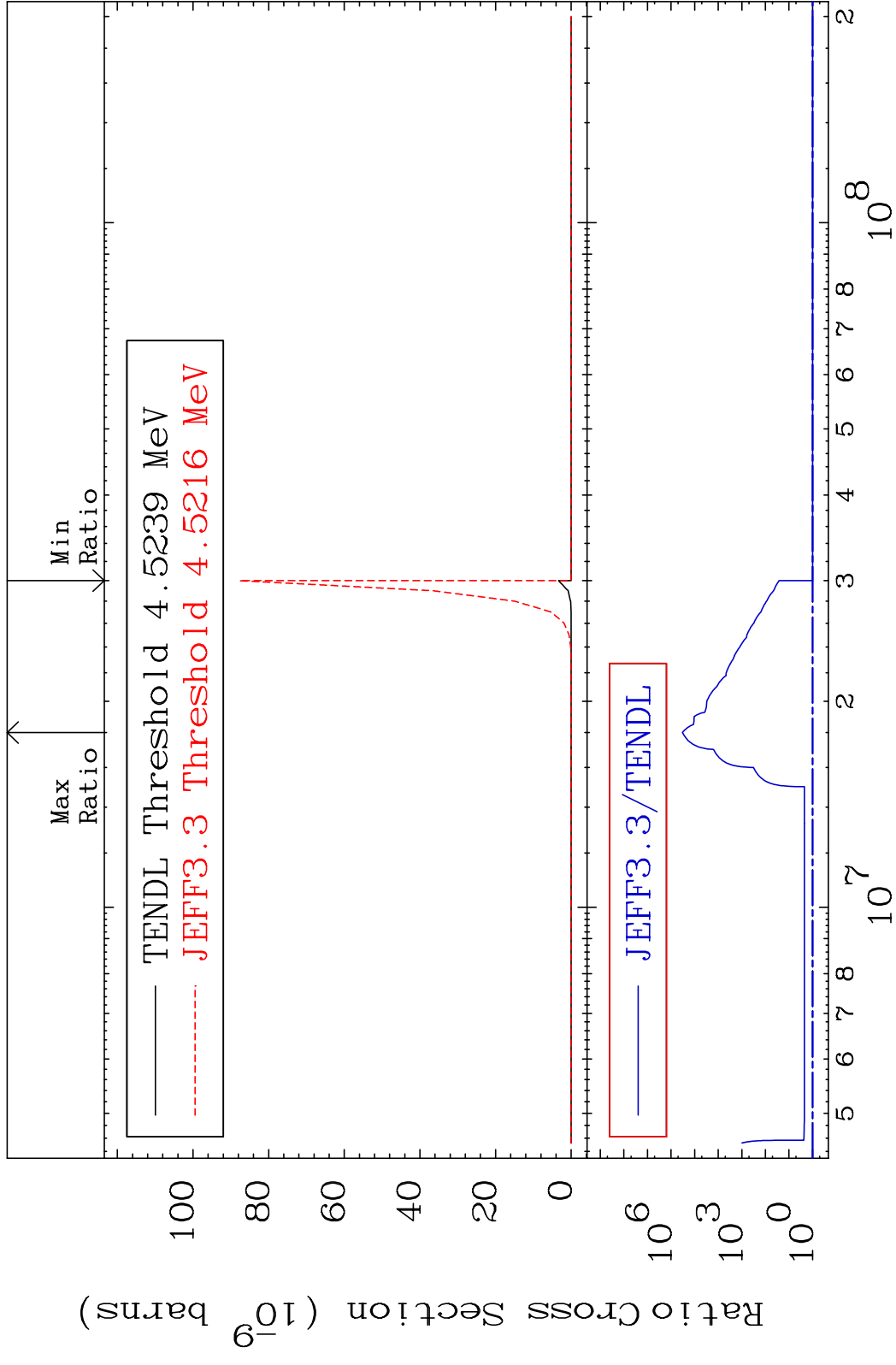


11

Incident Energy (eV)

64-Gd-150

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

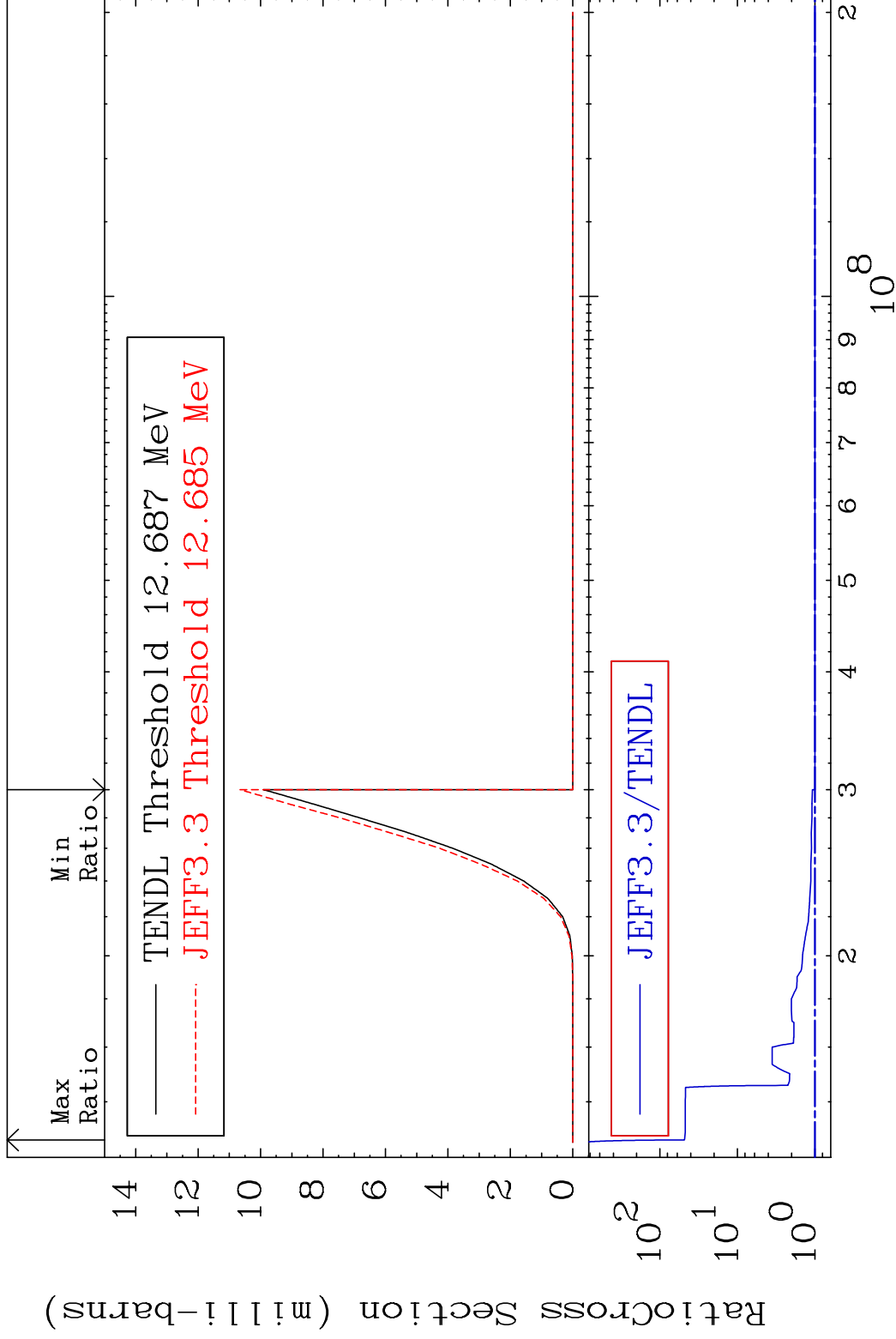


MAT 6419

(n, n') d

64-Gd-150

Cross Section 0.000 To 4750. %



13

Incident Energy (eV)

64-Gd-150

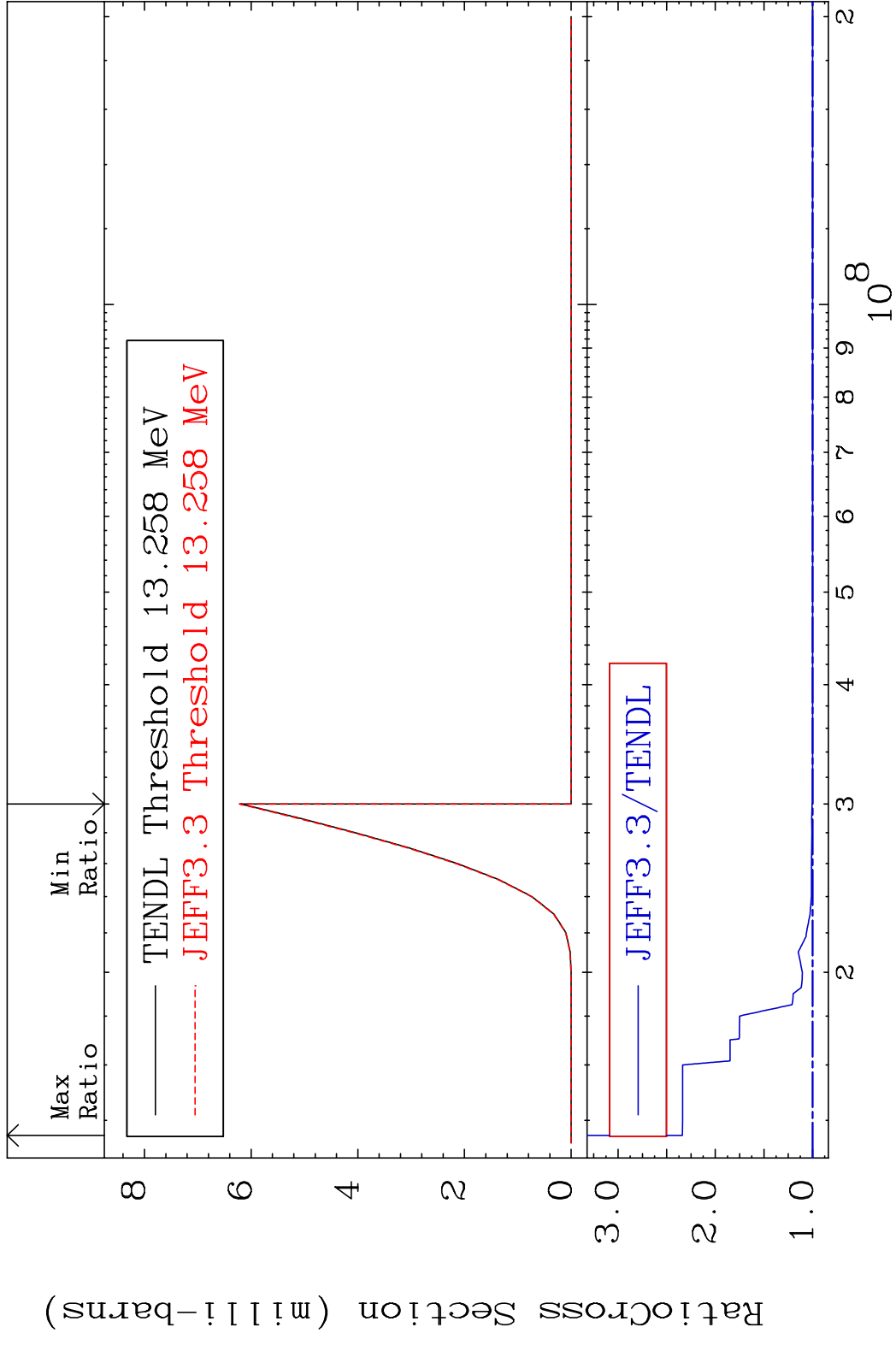
MAT 6419

(n, n') t

64-Gd-150

Cross Section 0.000

To 133.9 %



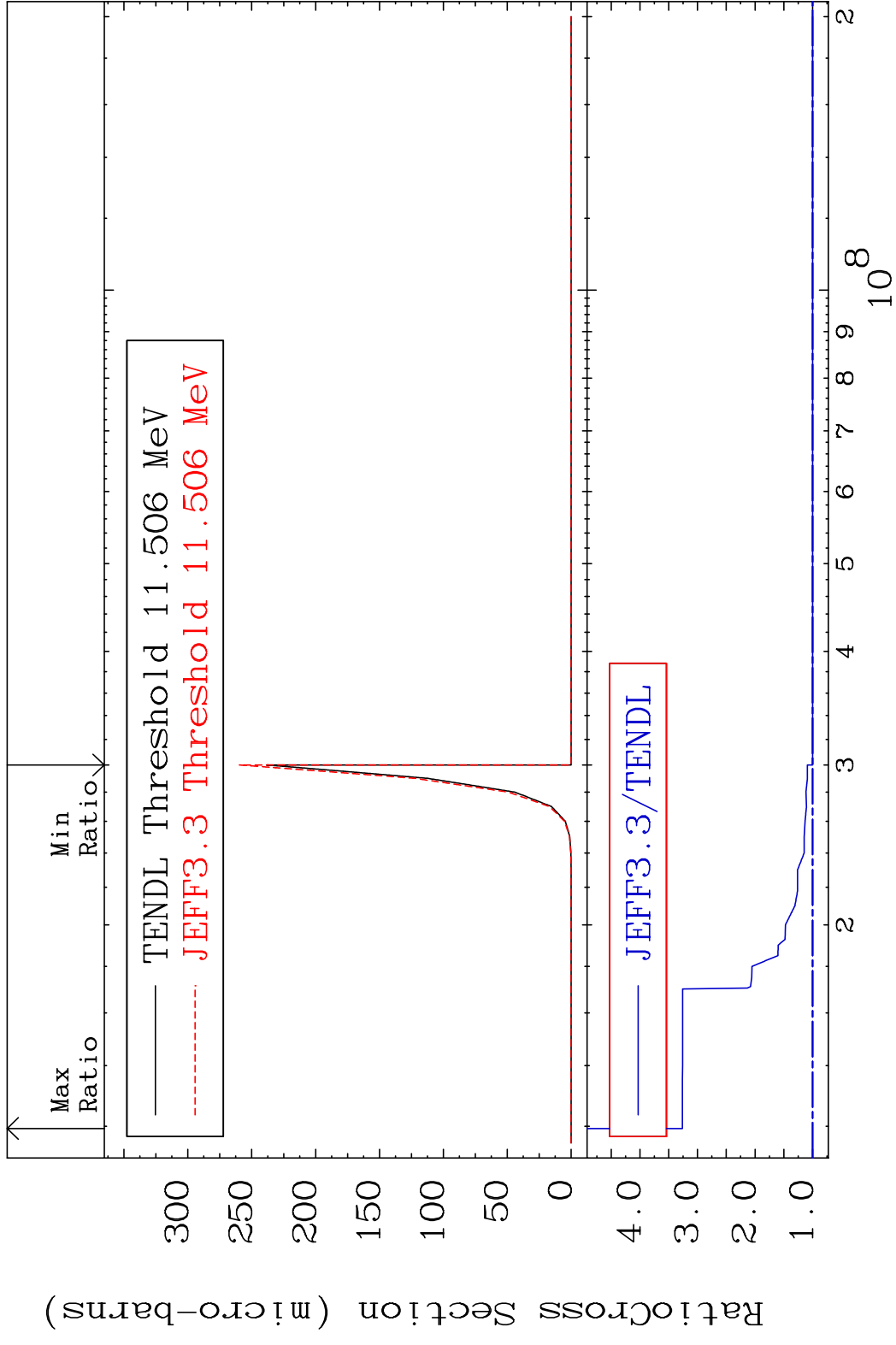
MAT 6419

(n,n') He-3

64-Gd-150

Cross Section 0.000

To 226.3 %

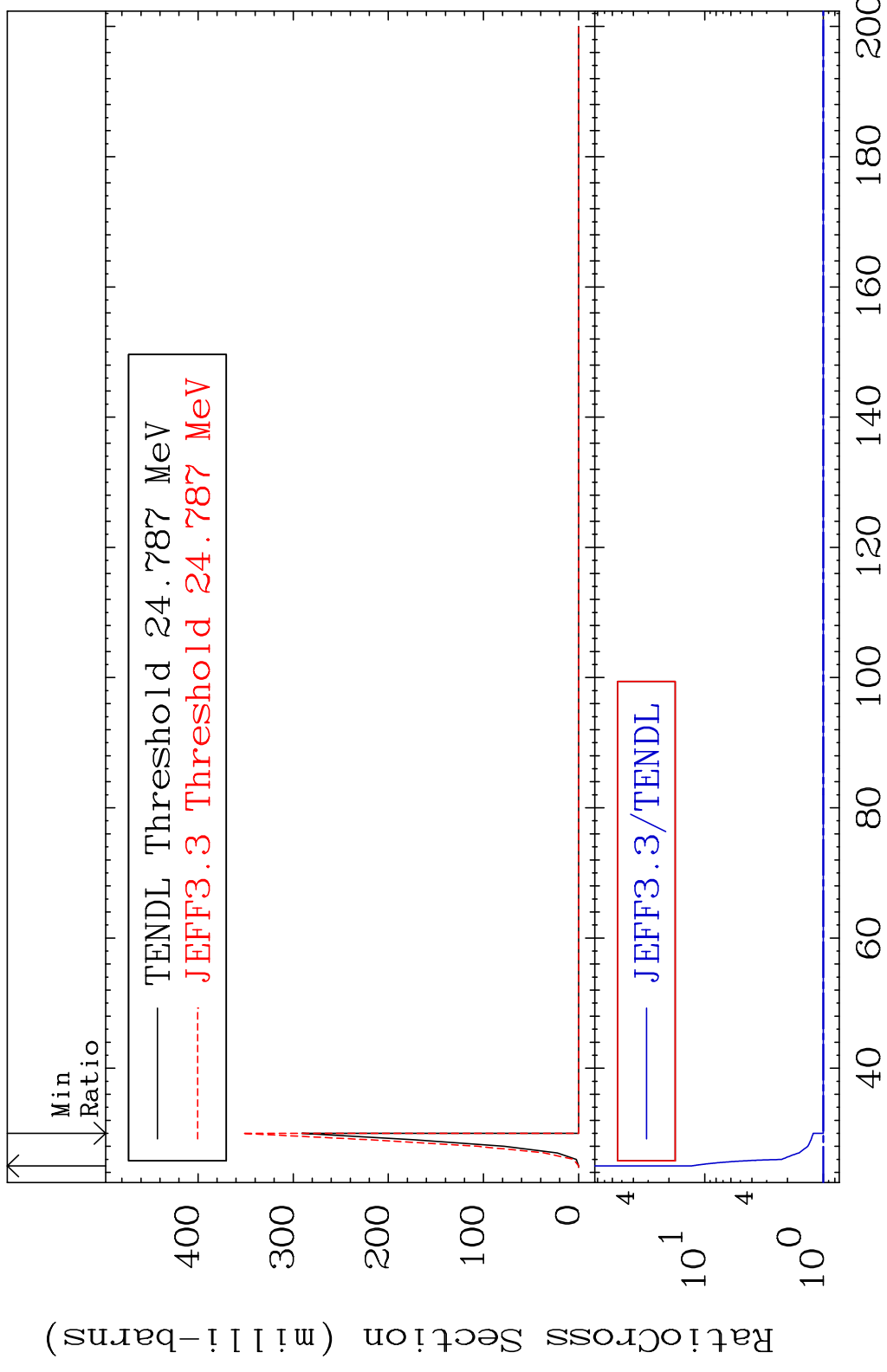


MAT 6419

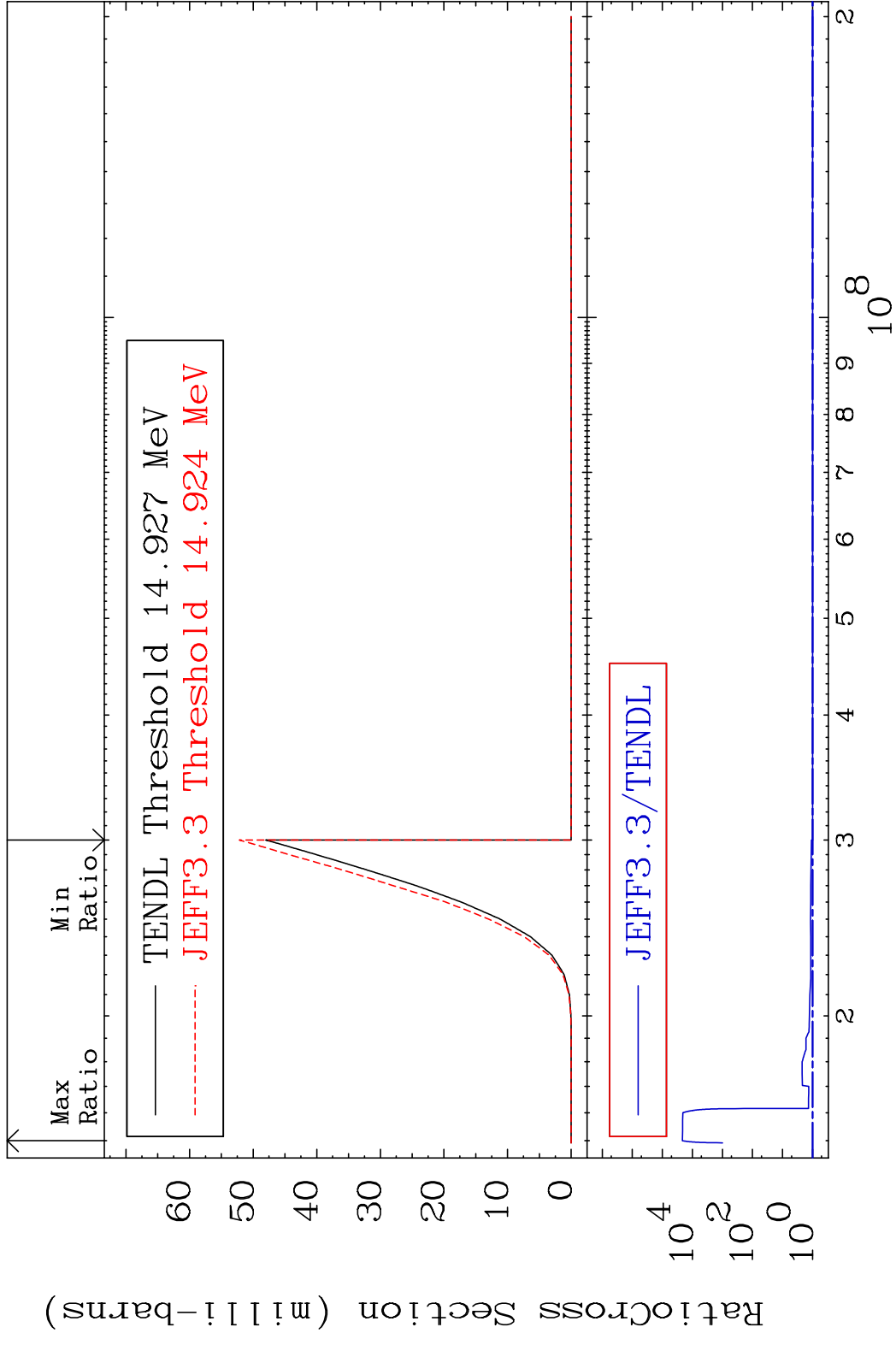
(n, 4n)

64-Gd-150
To 1195. %

Cross Section 0.000



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

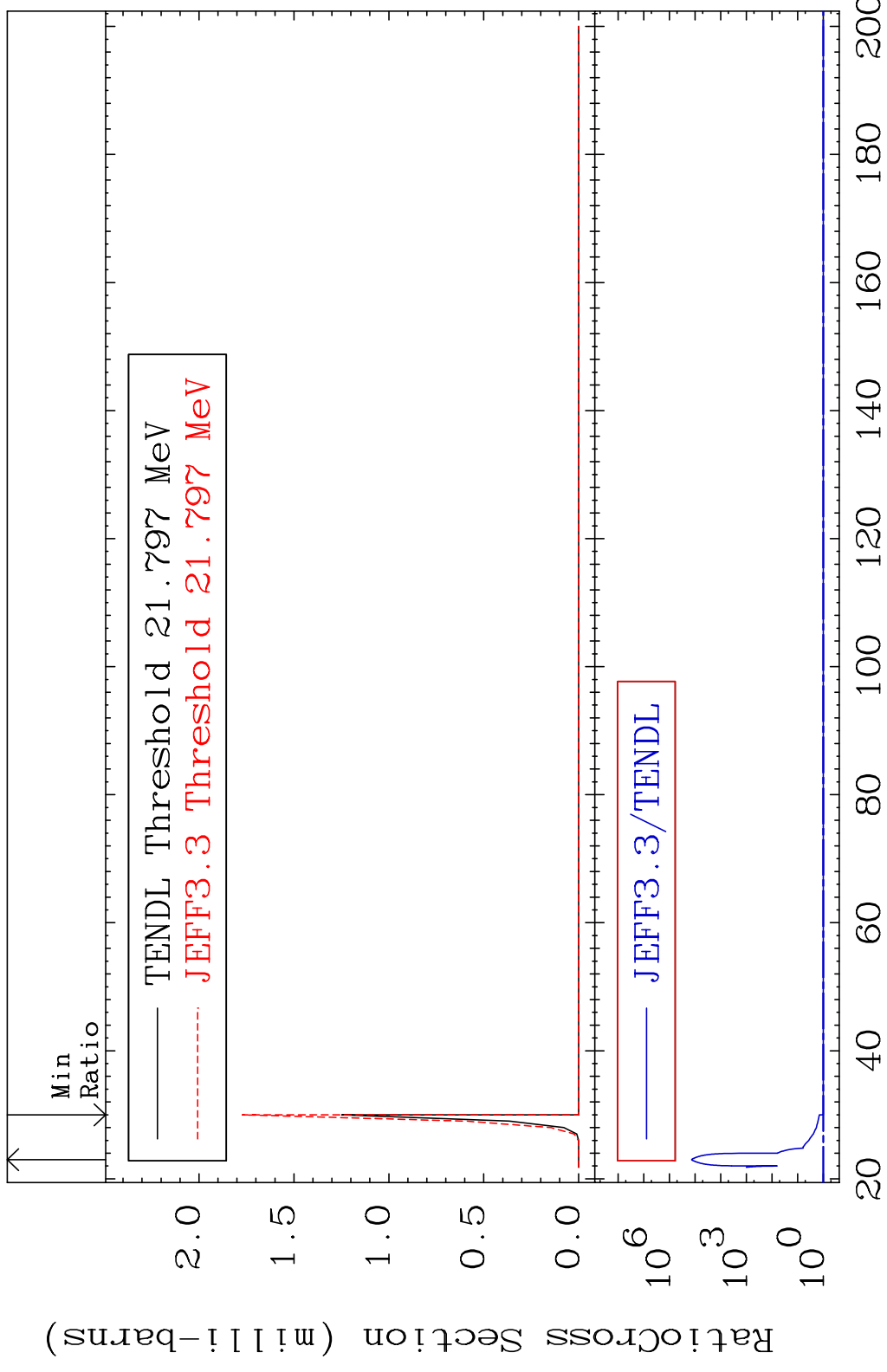


MAT 6419

(n,3n) p

64-Gd-150

Cross Section 0.000 To 9999. %



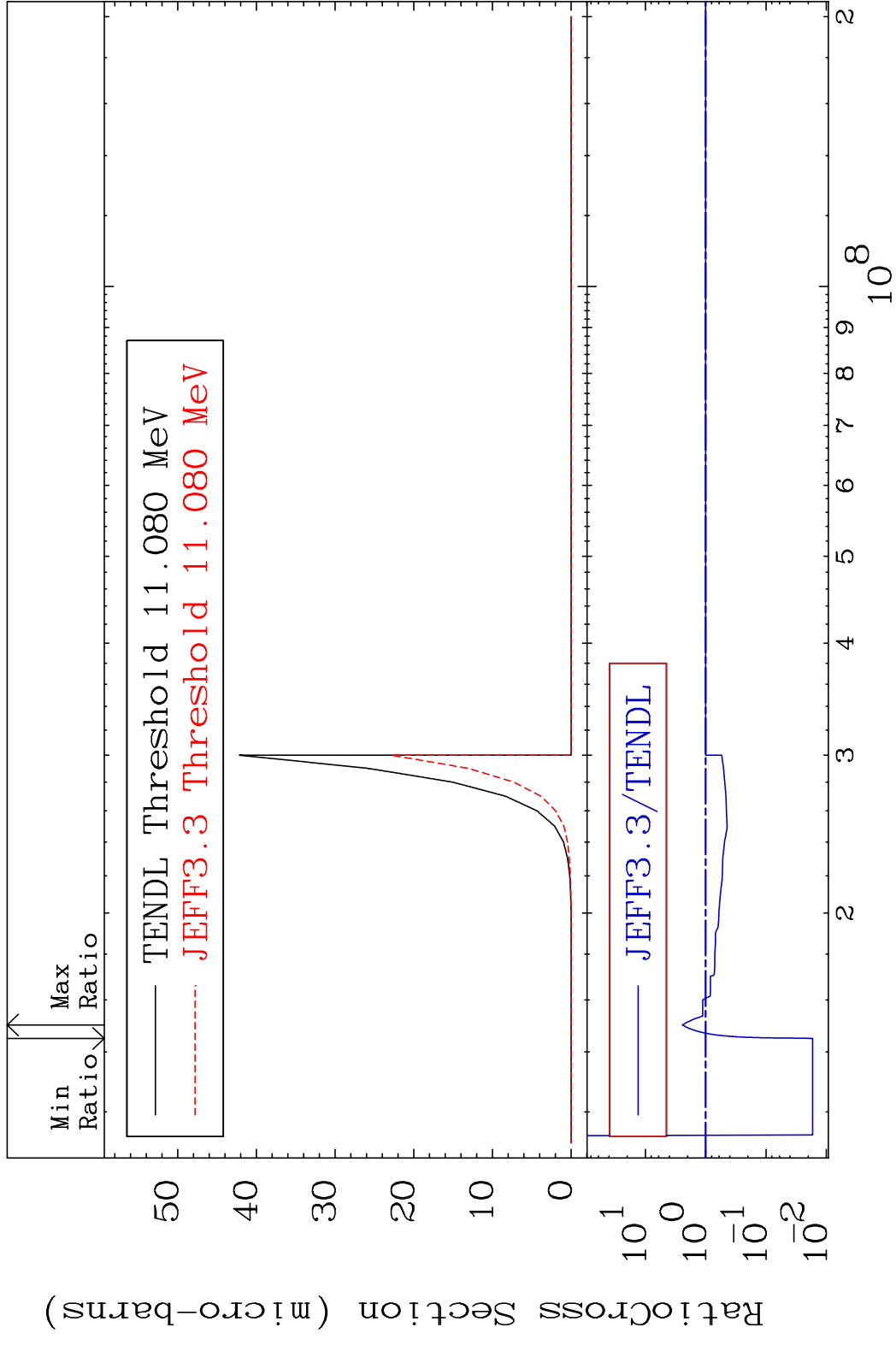
MAT 6419

(n,2n) p

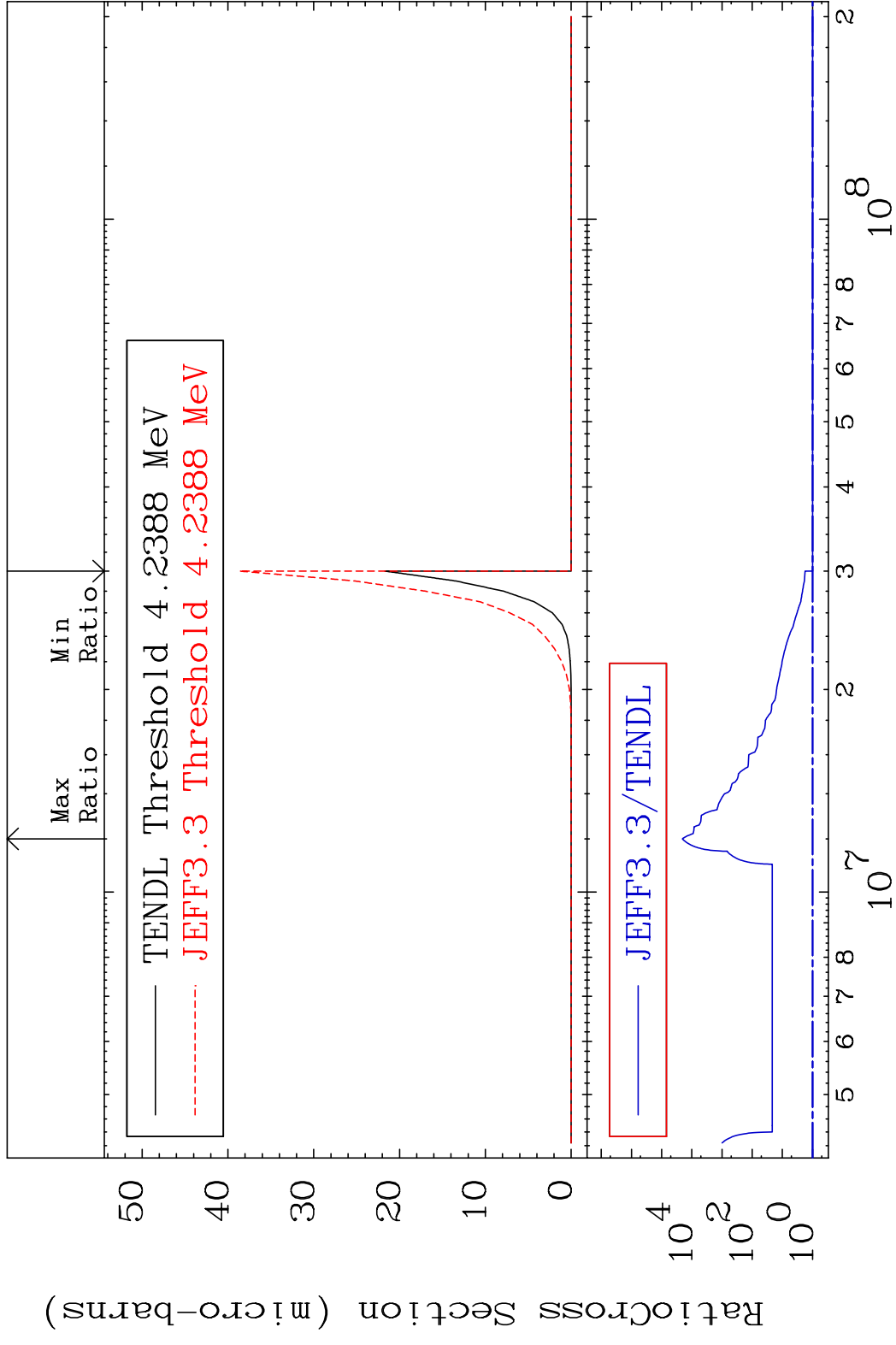
64-Gd-150

Cross Section

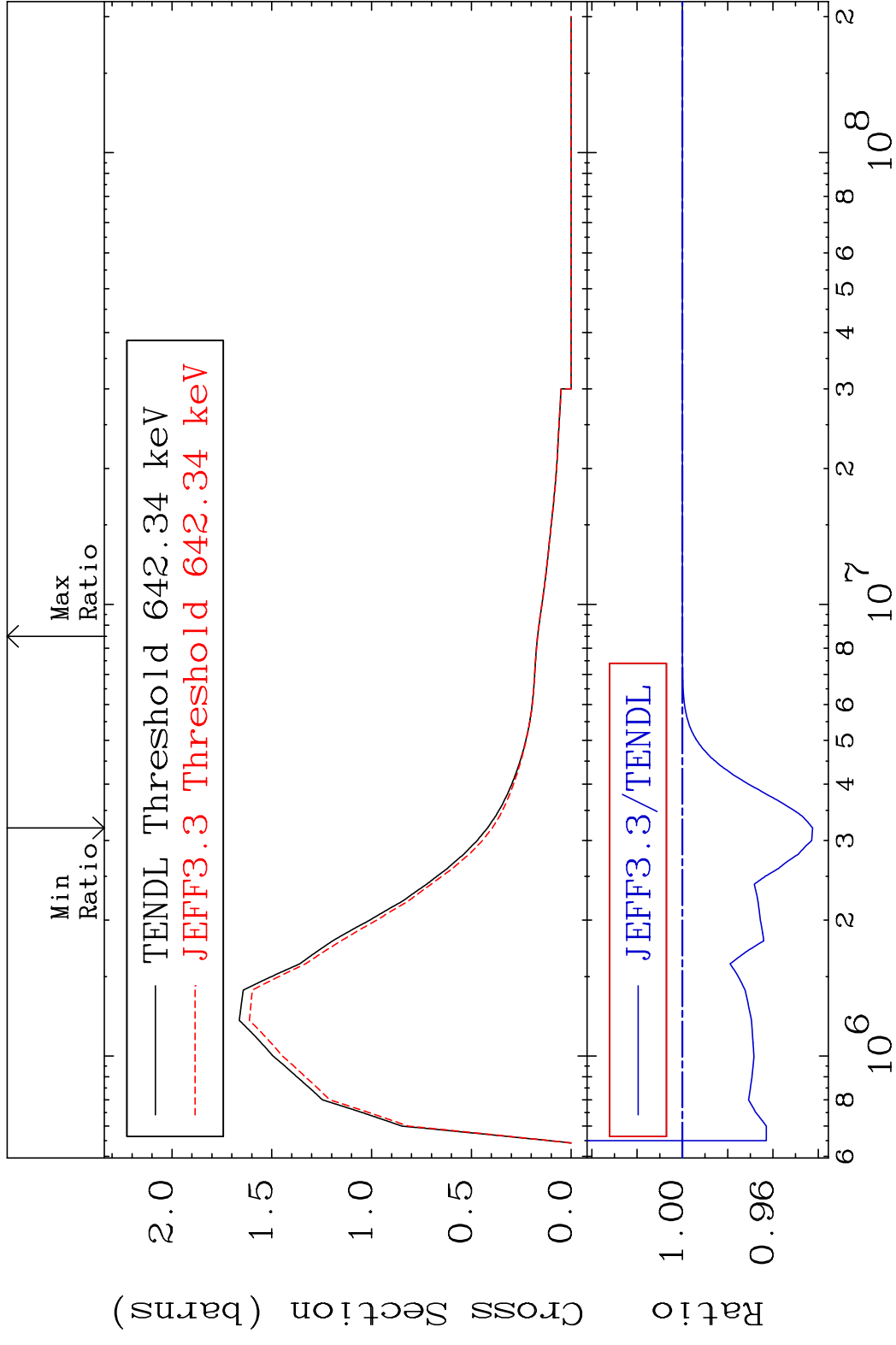
-98.30 To 143.7 %



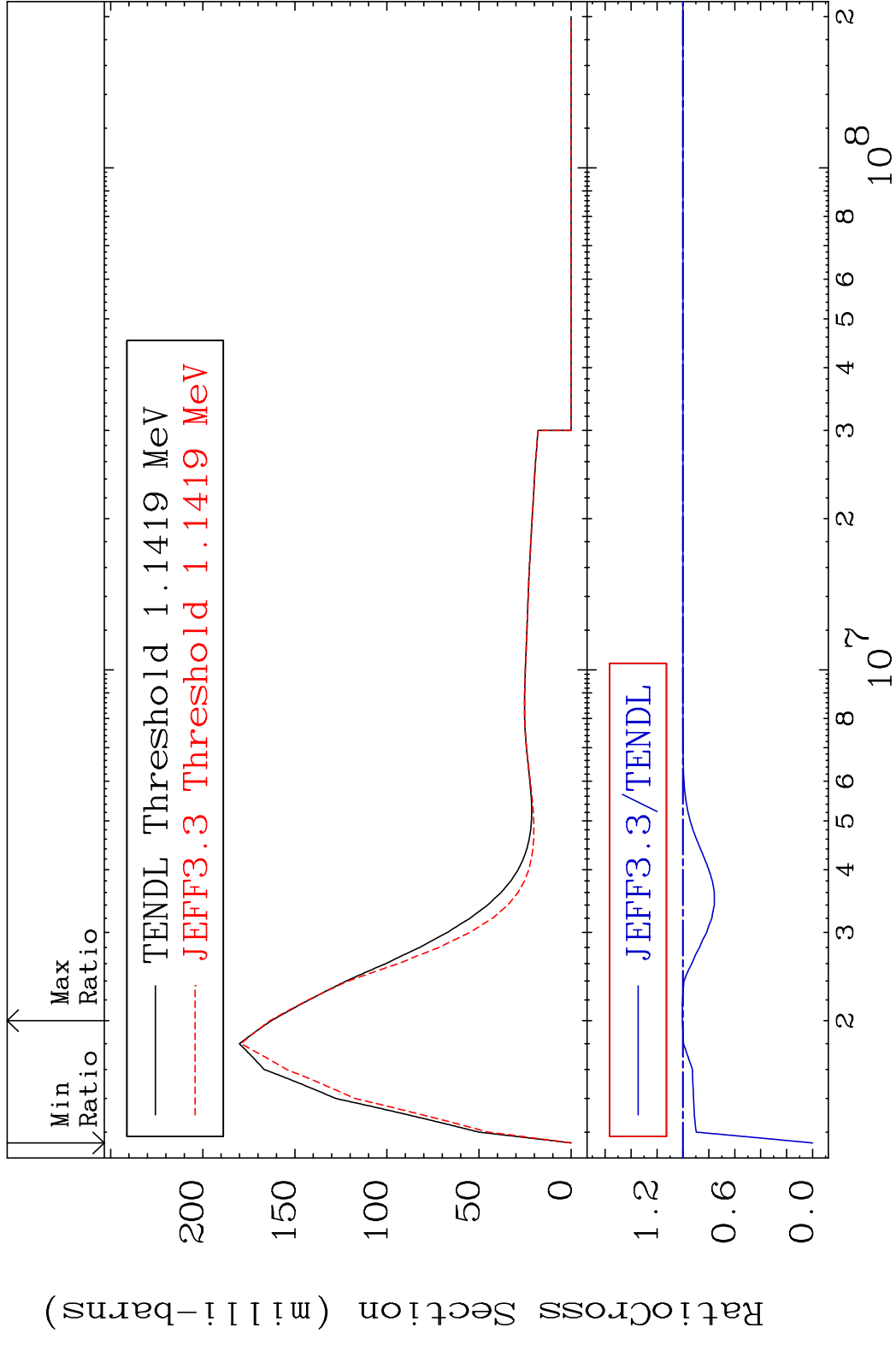
MAT 6419 (n, n') p α 64-Gd-150
 Cross Section 0.000 To 9999. %



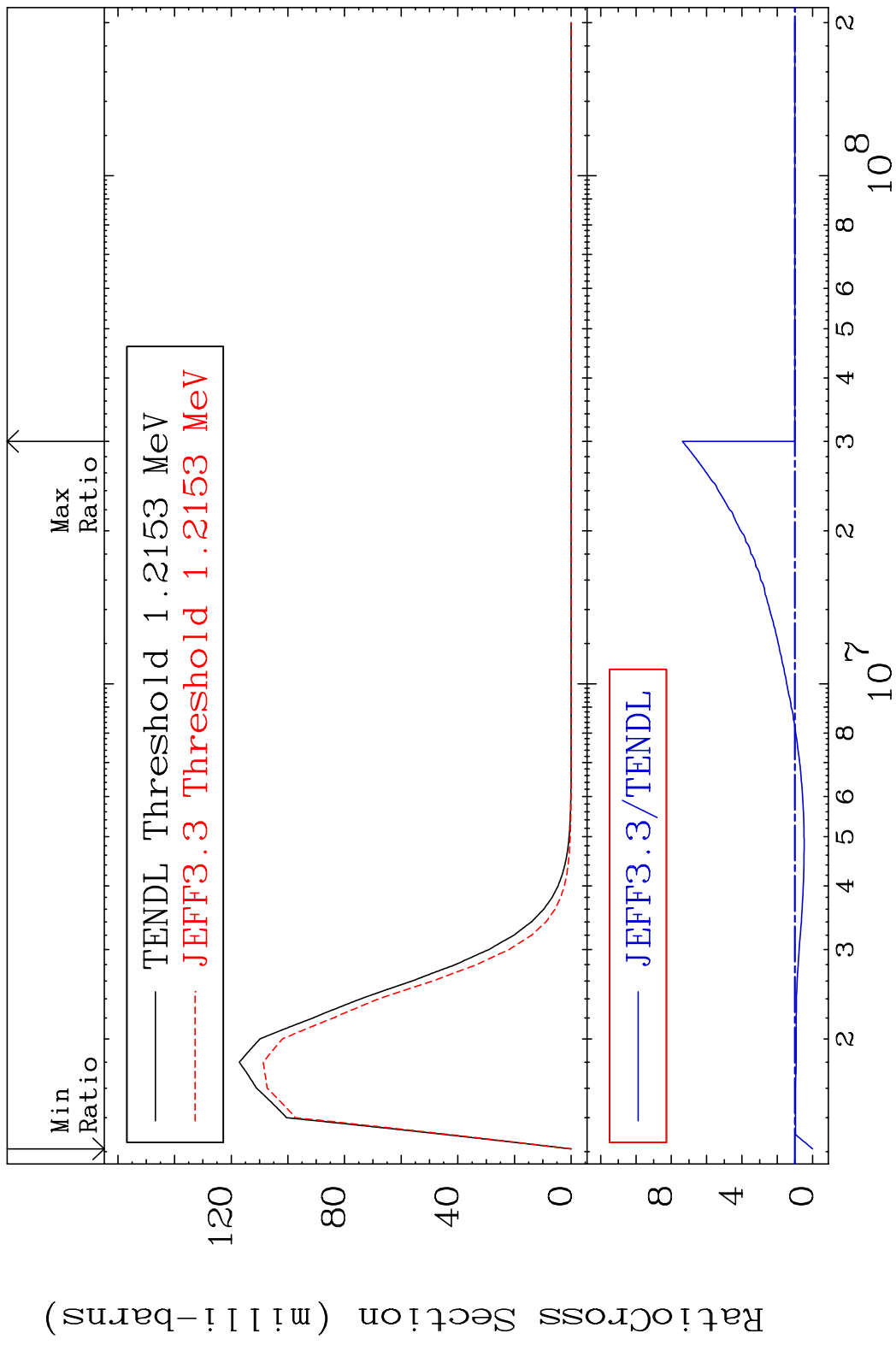
MAT 6419 MT= 51 (n, n') Level 64-Gd-150
 Cross Section -5.748 To 0.000 %



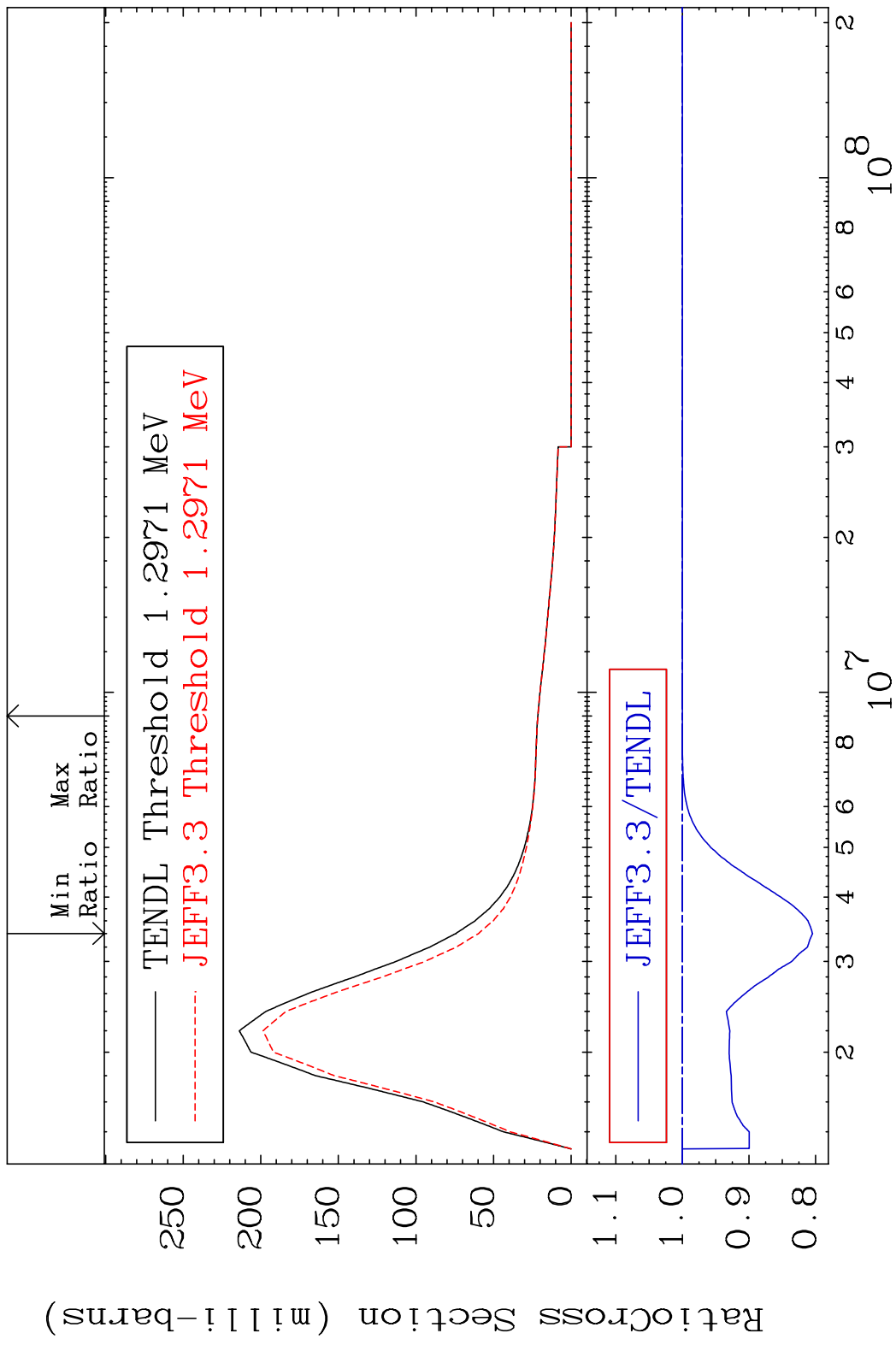
MAT 6419 MT= 52 (n,n') Level 64-Gd-150
 Cross Section -100.0 To 0.447 %



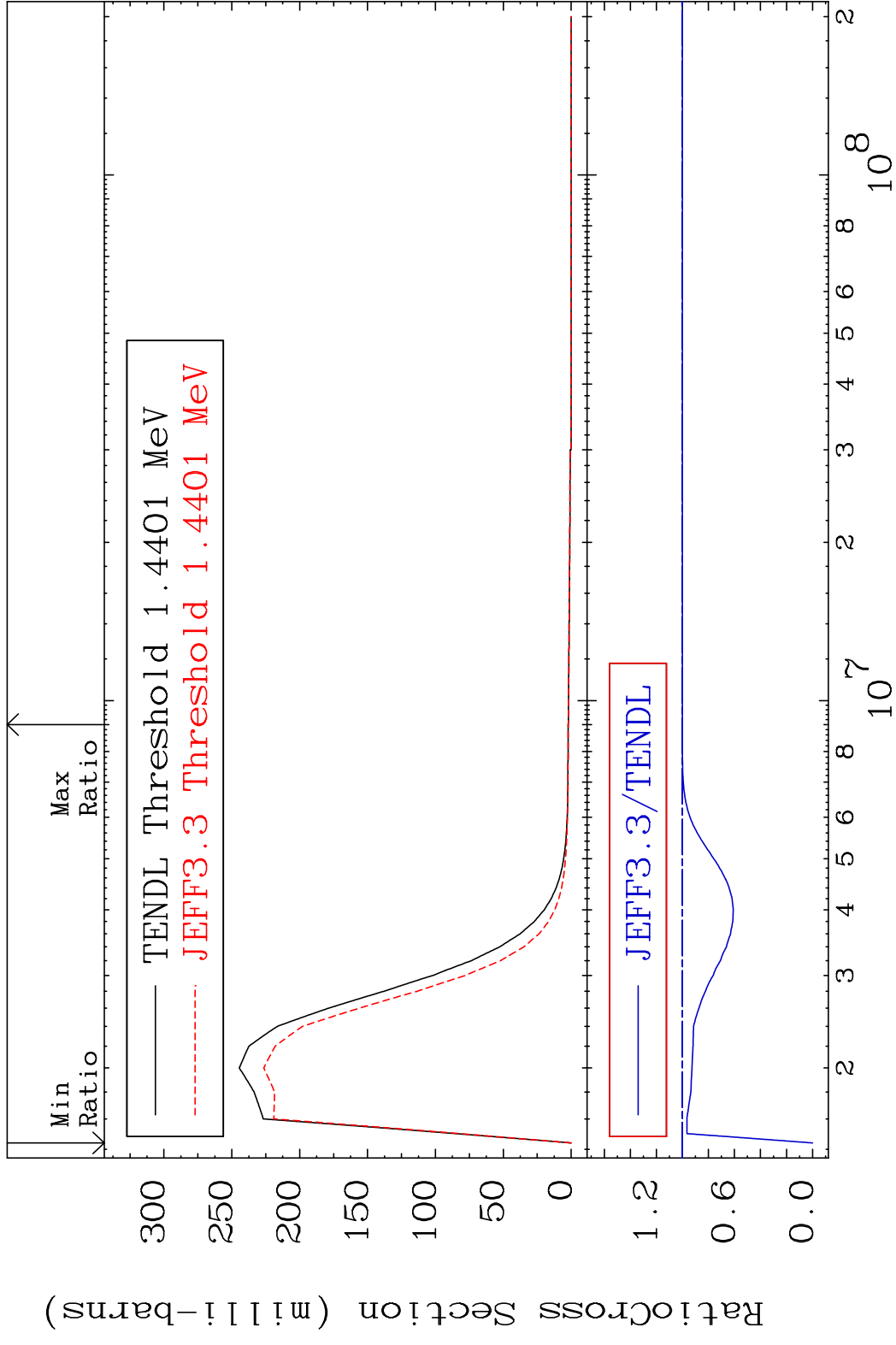
MAT 6419 MT= 53 (n, n') Level 64-Gd-150
 Cross Section -100.0 To 637.5 %



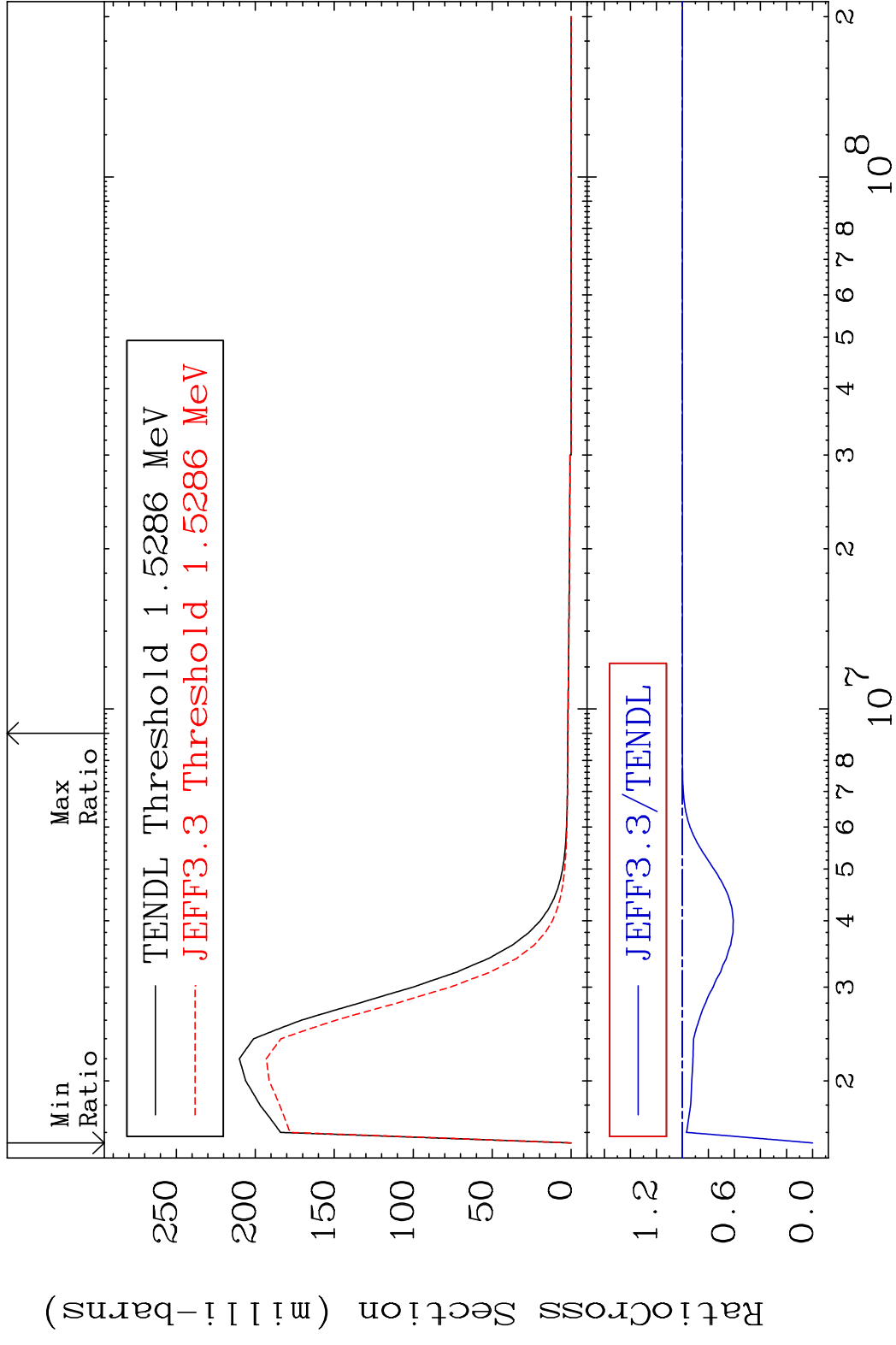
MAT 6419 MT= 54 (n,n') Level 64-Gd-150
 Cross Section -19.56 To 0.003 %



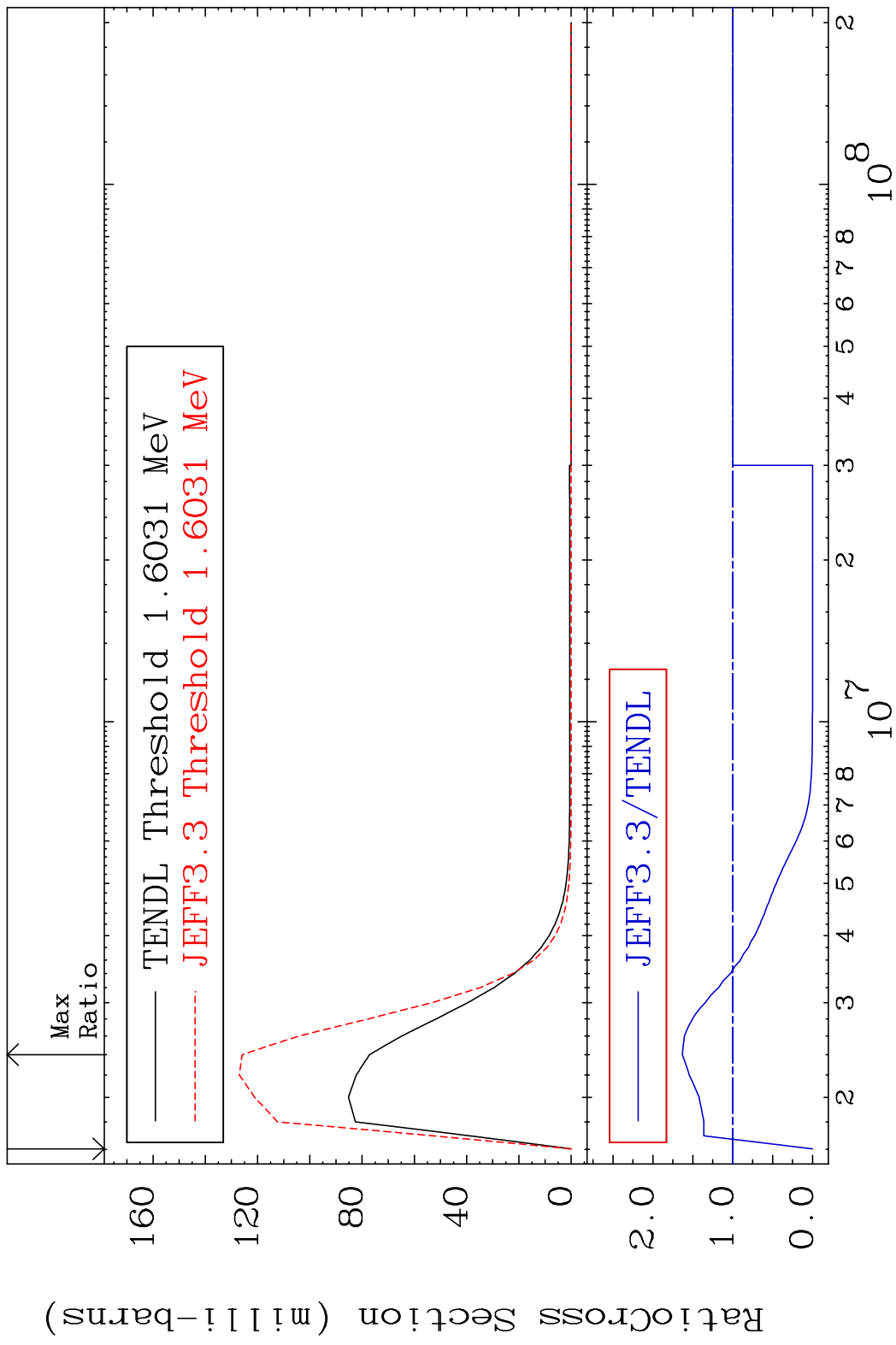
MAT 6419 MT= 55 (n,n') Level 64-Gd-150
 Cross Section -100.0 To 0.026 %



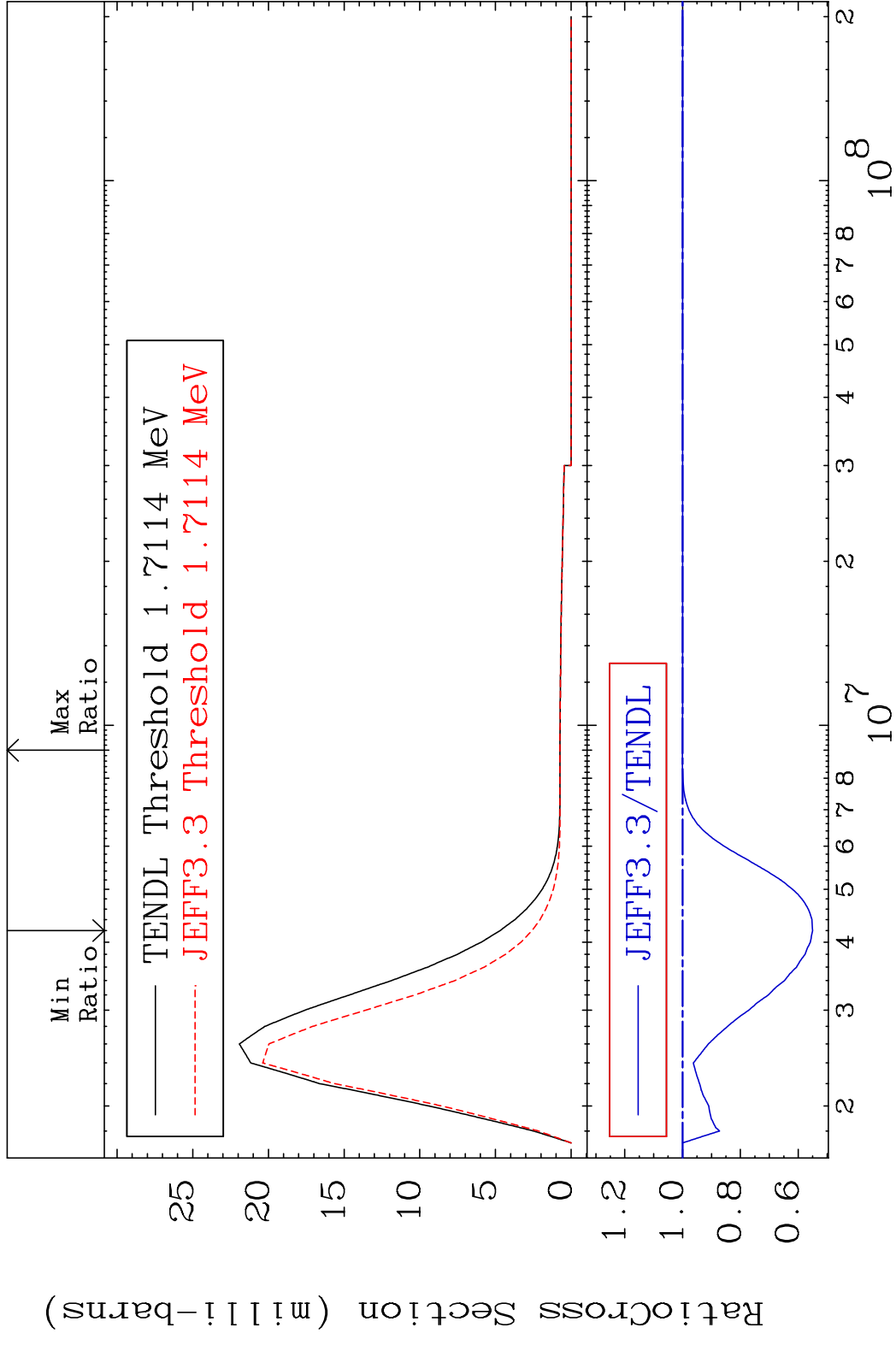
MAT 6419 MT= 56 (n,n') Level 64-Gd-150
 Cross Section -100.0 To 0.025 %



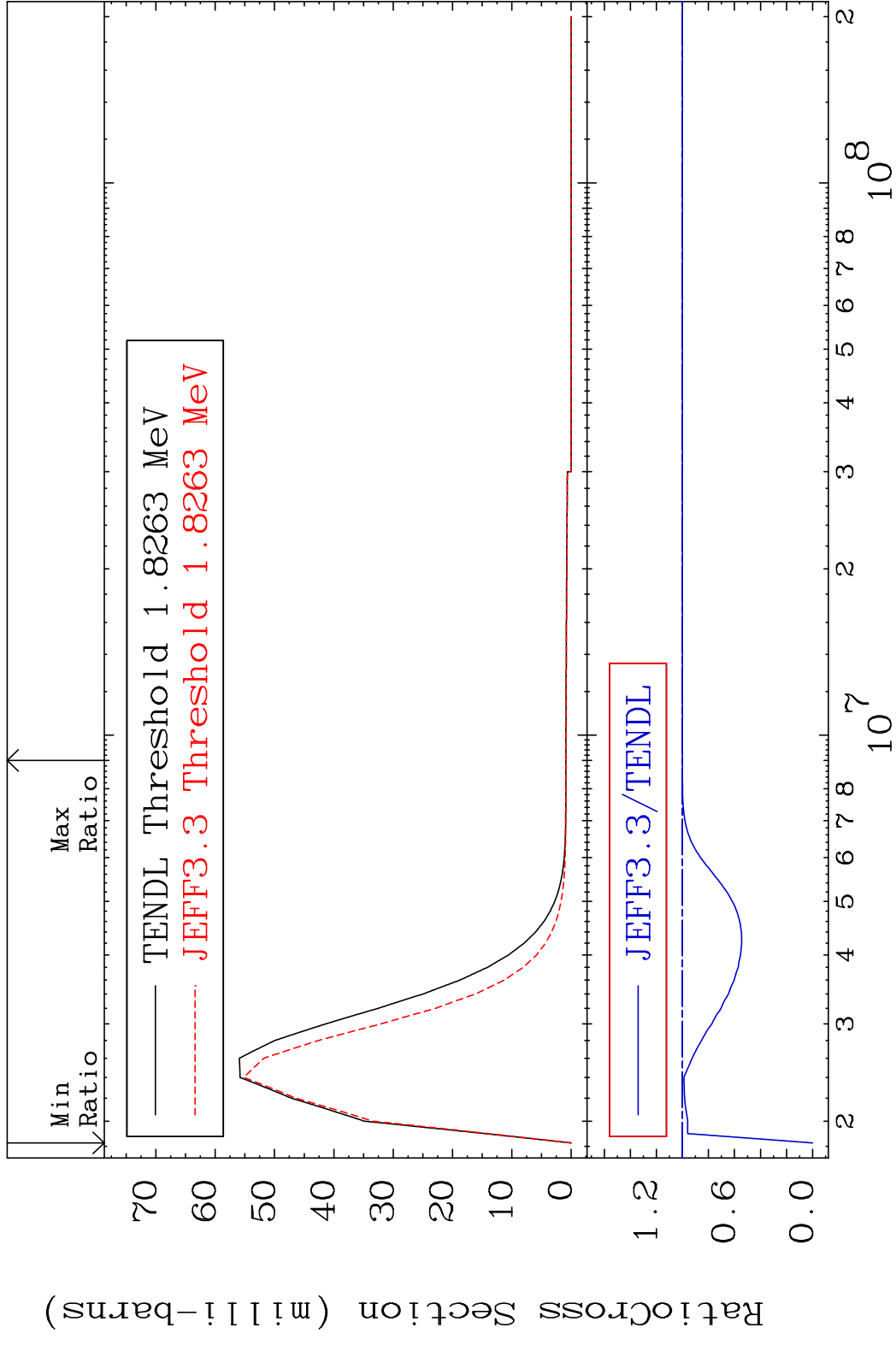
MAT 6419 MT= 57 (n,n') Level 64-Gd-150
 Cross Section -100.0 To 63.15 %



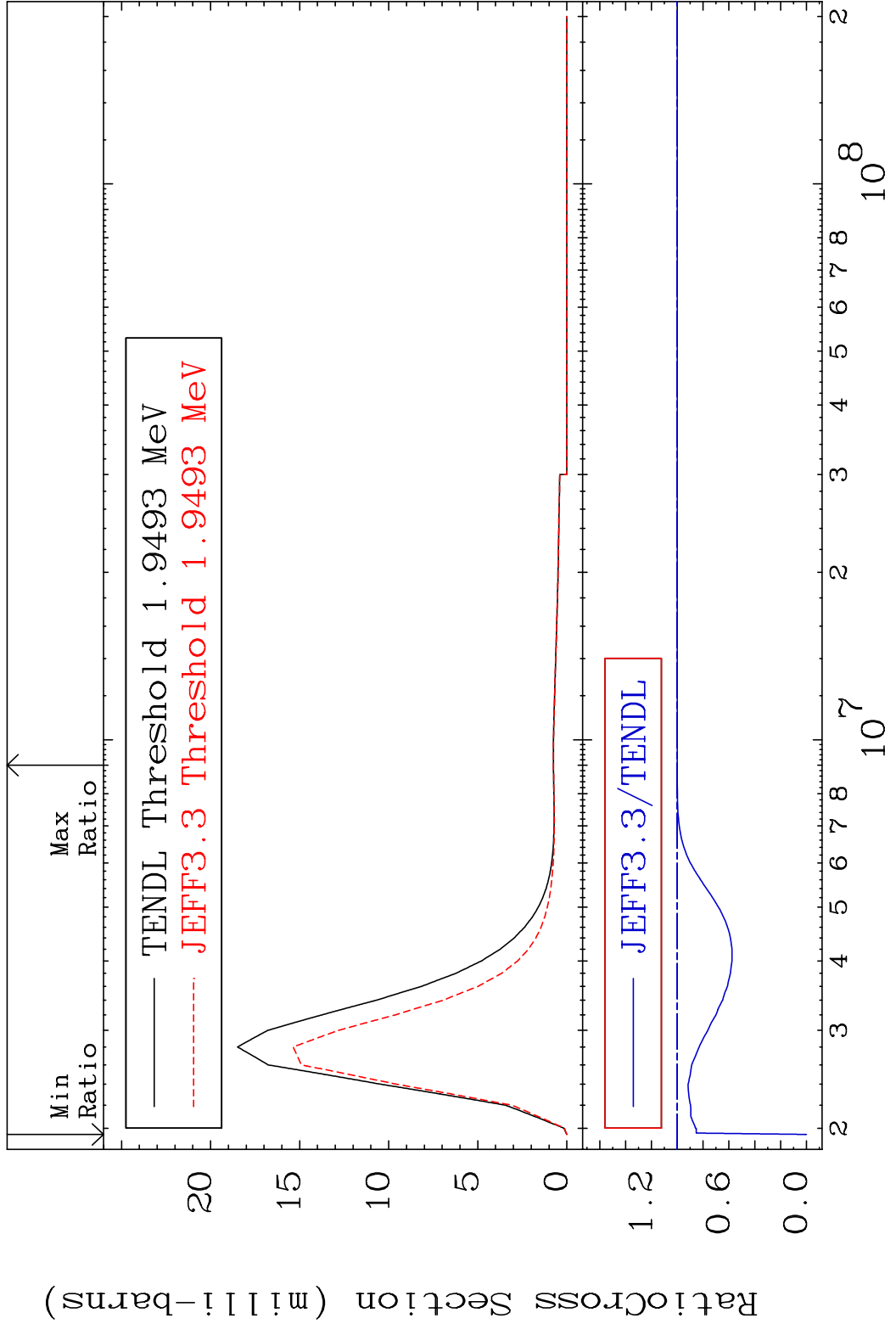
MAT 6419 MT= 58 (n,n') Level 64-Gd-150
 Cross Section -44.95 To 0.081 %



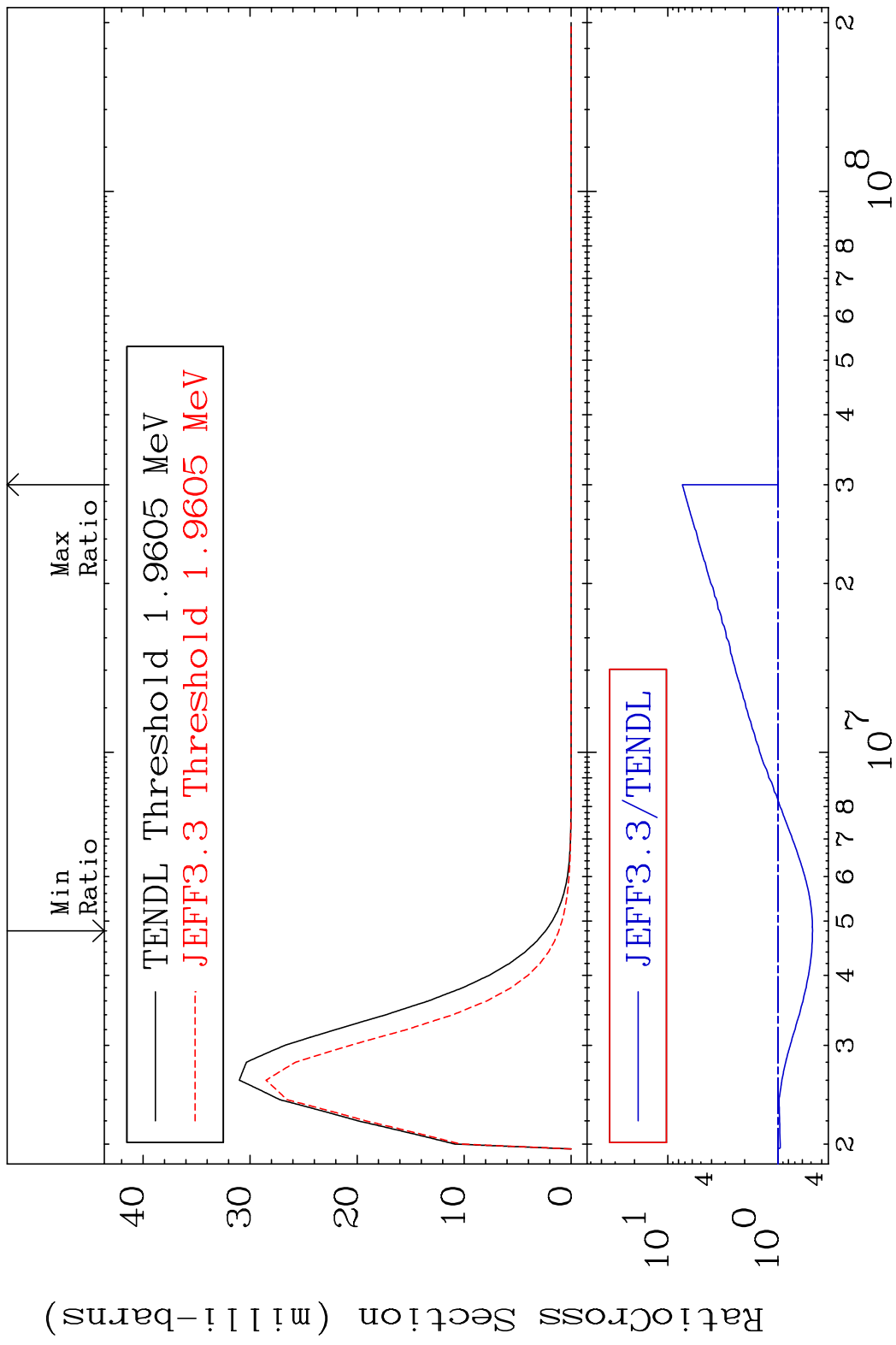
MAT 6419 MT= 59 (n,n') Level 64-Gd-150
 Cross Section -100.0 To 0.068 %



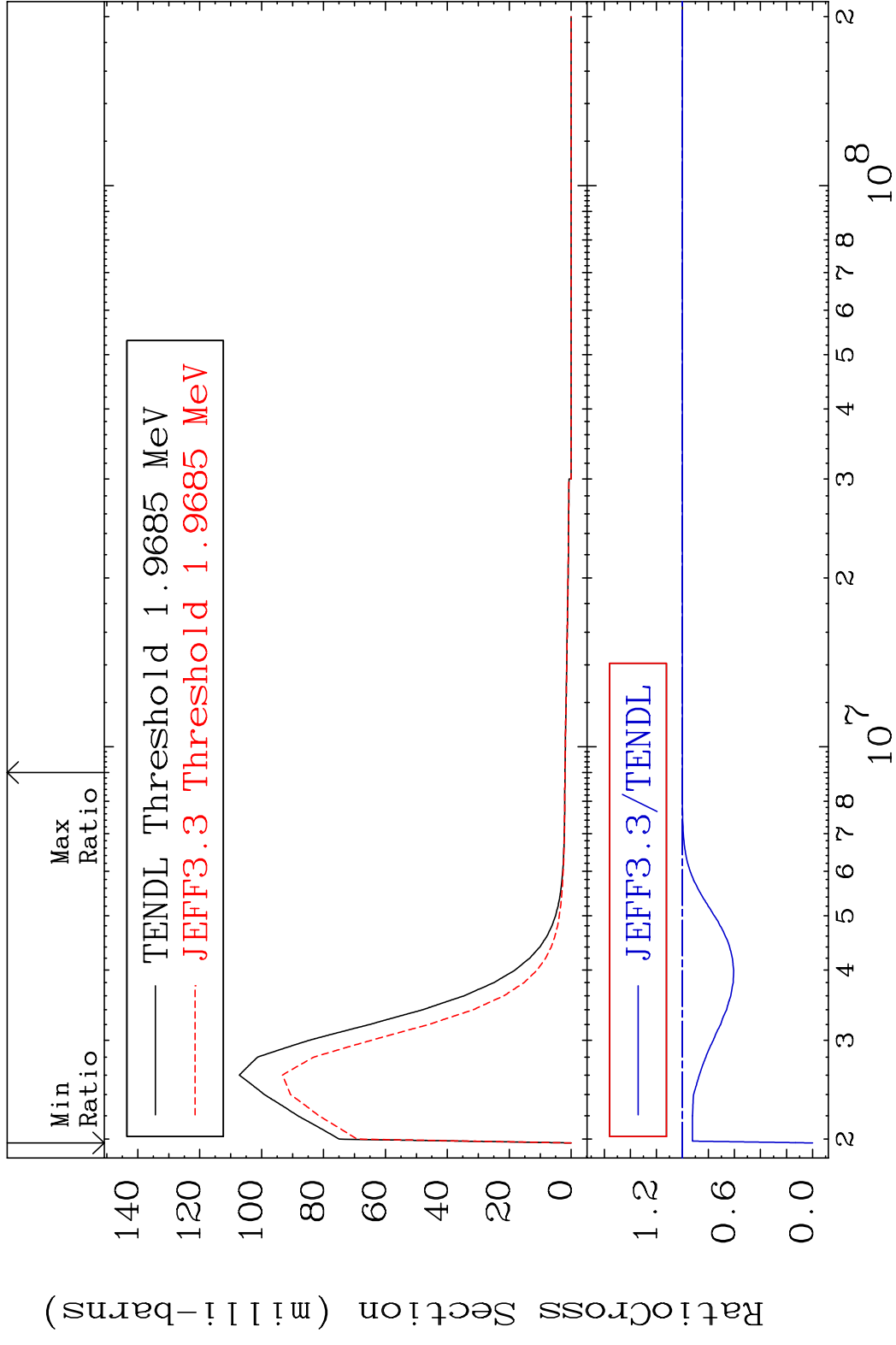
MAT 6419 MT= 60 (n,n') Level 64-Gd-150
 Cross Section -100.0 To 0.063 %



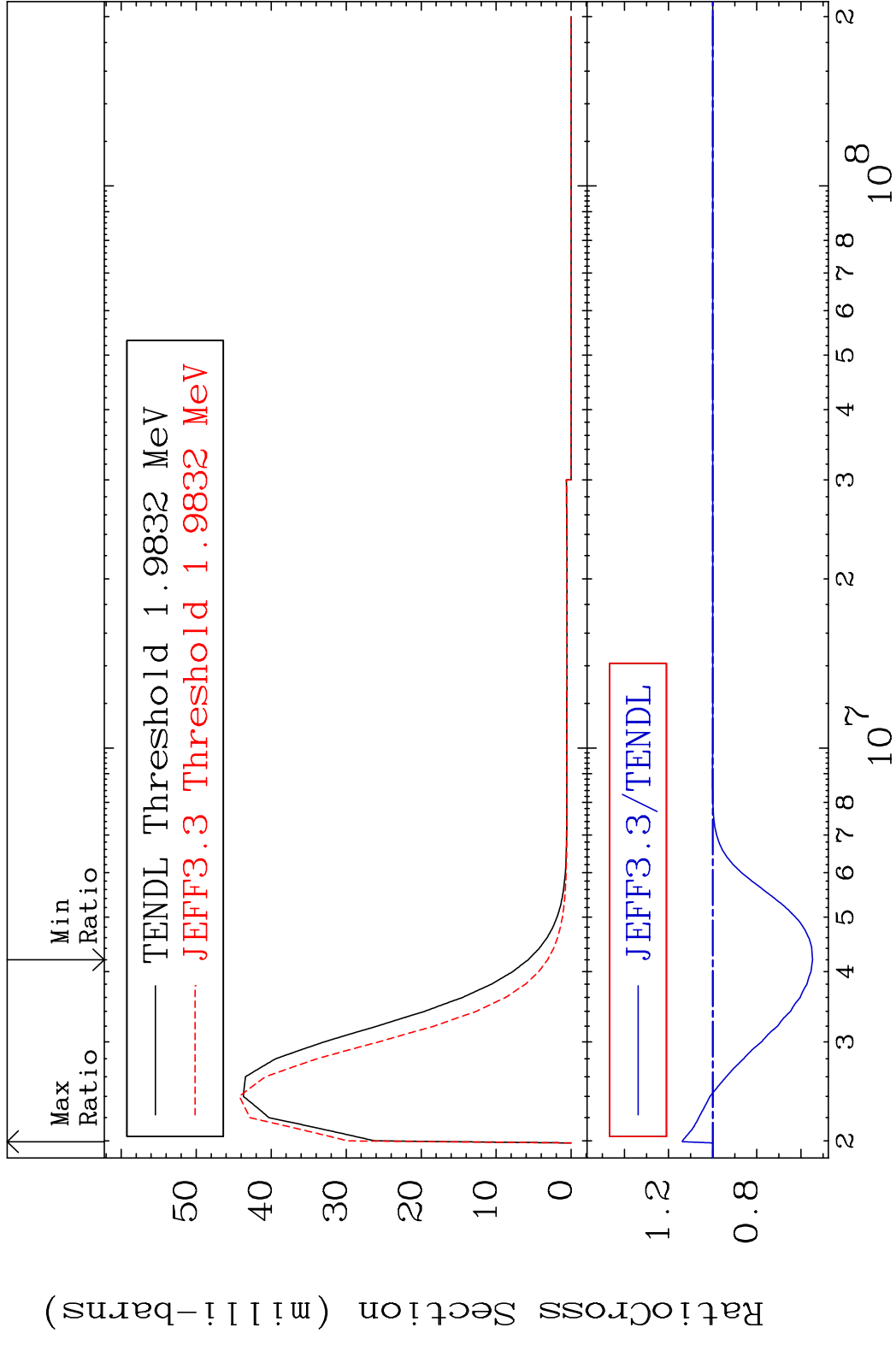
MAT 6419 MT= 61 (n, n') Level 64-Gd-150
 Cross Section -51.61 To 636.6 %



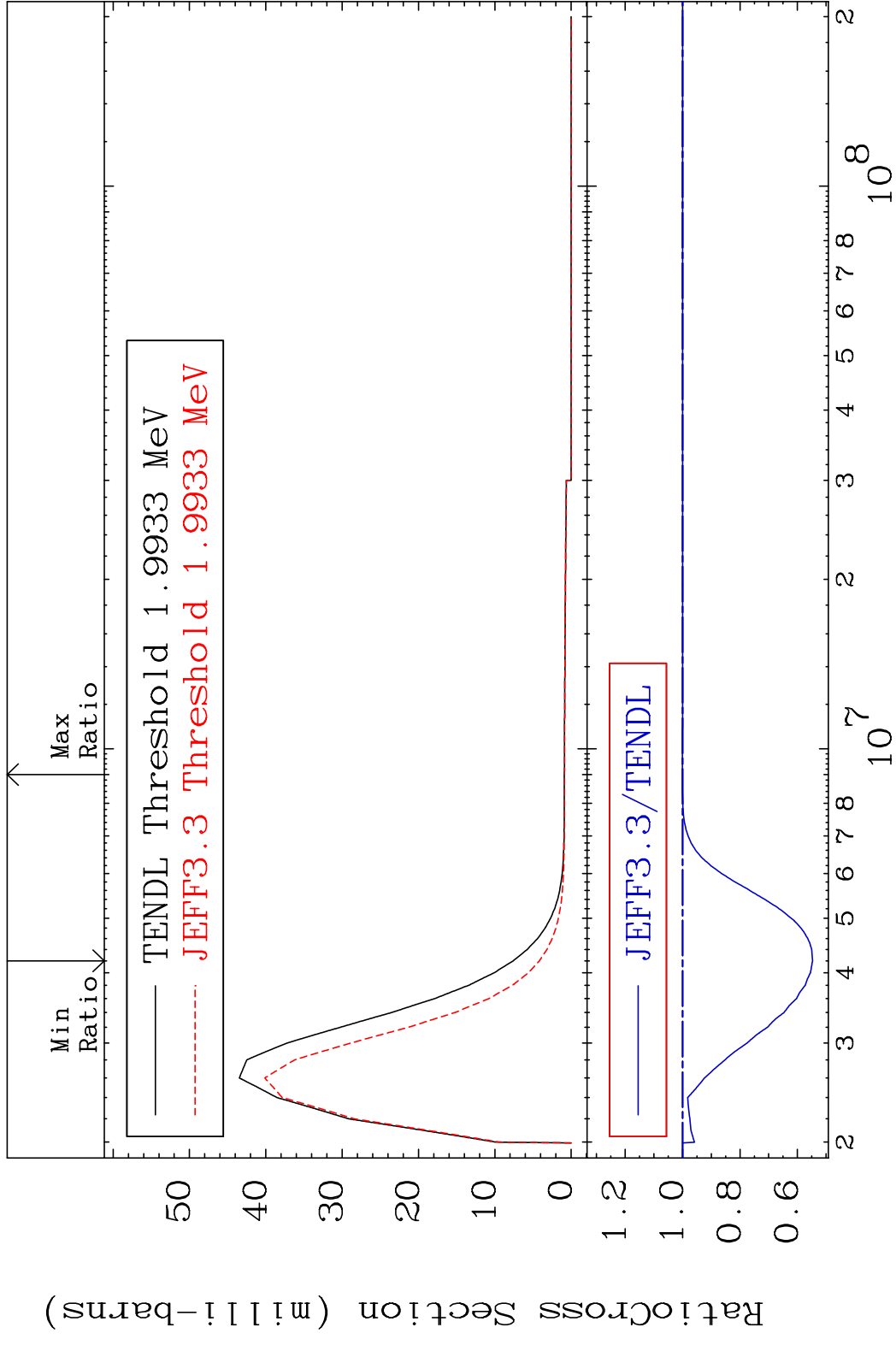
MAT 6419 MT= 62 (n,n') Level 64-Gd-150
 Cross Section -100.0 To 0.026 %



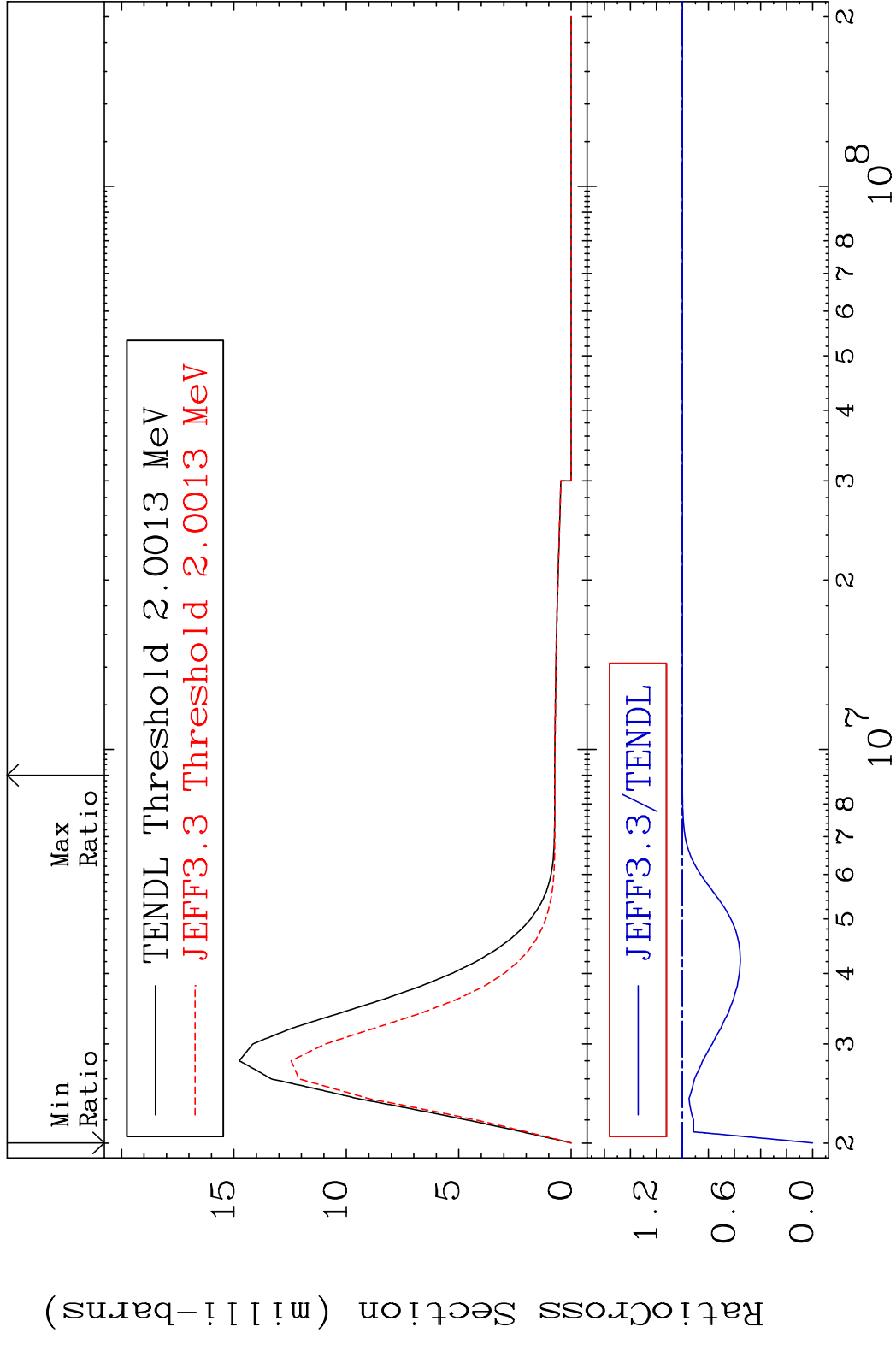
MAT 6419 MT= 63 (n, n') Level 64-Gd-150
 Cross Section -45.25 To 13.75 %



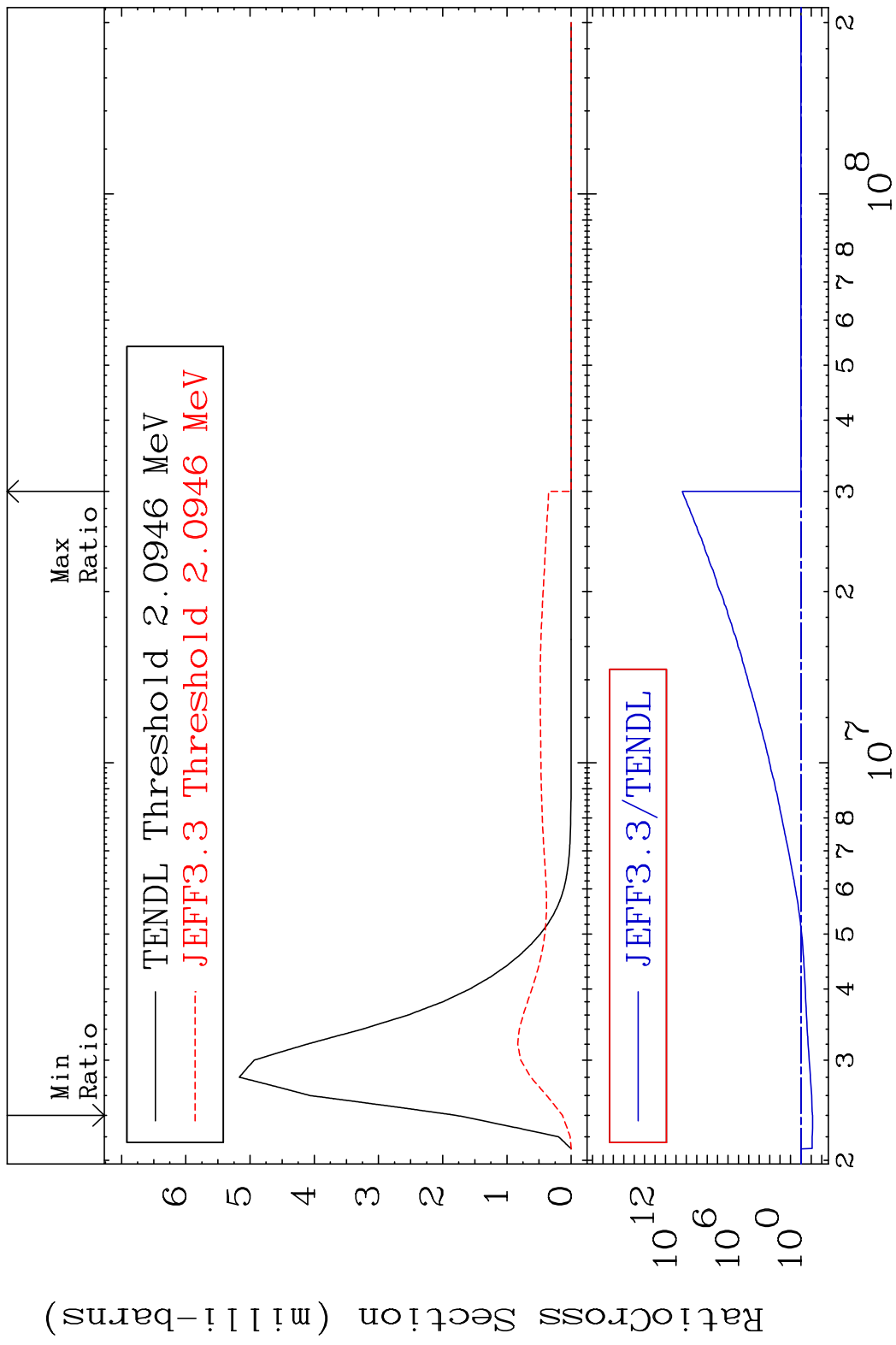
MAT 6419 MT= 64 (n,n') Level 64-Gd-150
 Cross Section -45.27 To 0.067 %



MAT 6419 MT= 65 (n,n') Level 64-Gd-150
 Cross Section -100.0 To 0.079 %



MAT 6419 MT= 66 (n, n') Level 64-Gd-150
 Cross Section -92.36 To 9999. %

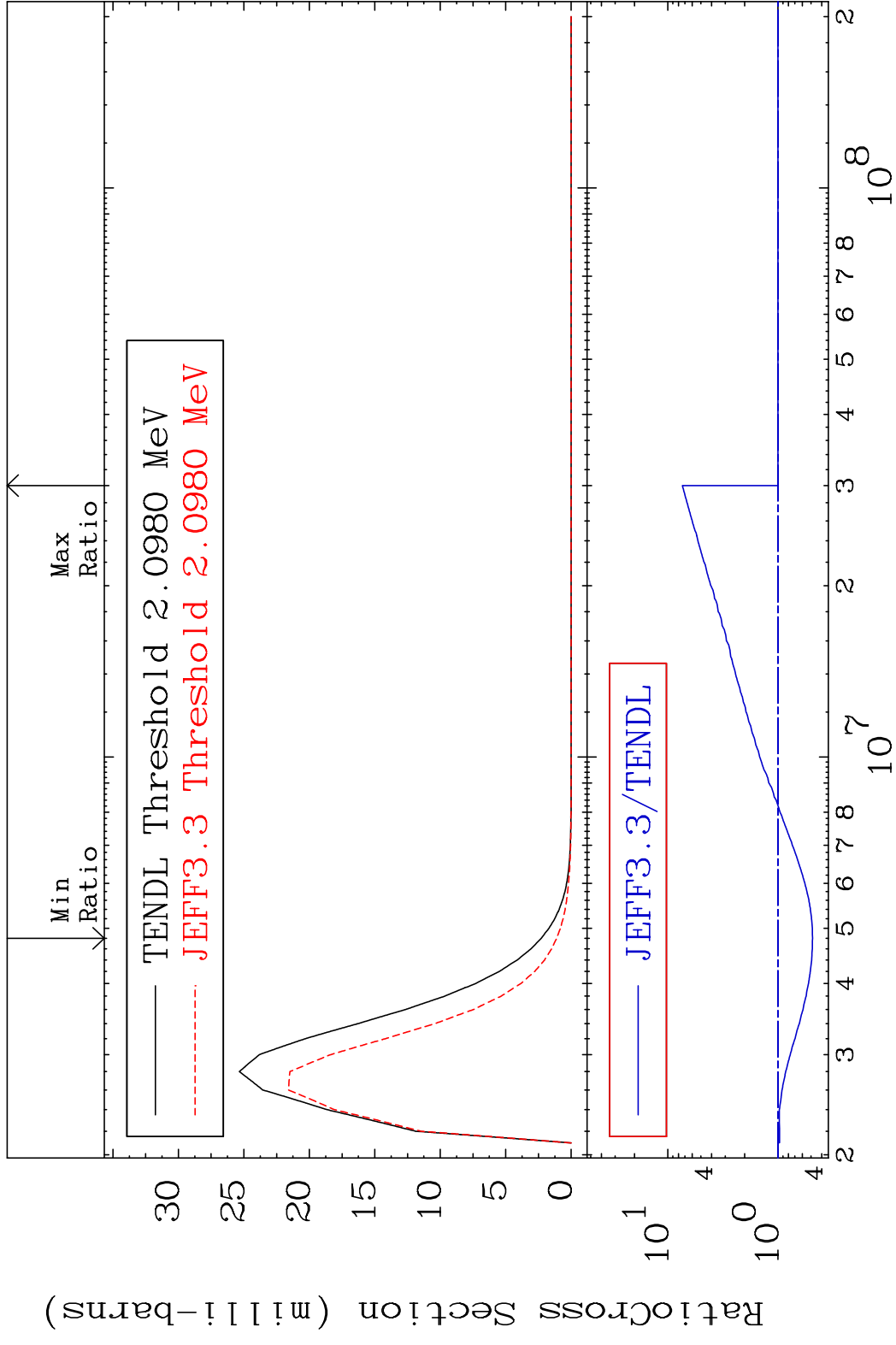


MAT 6419

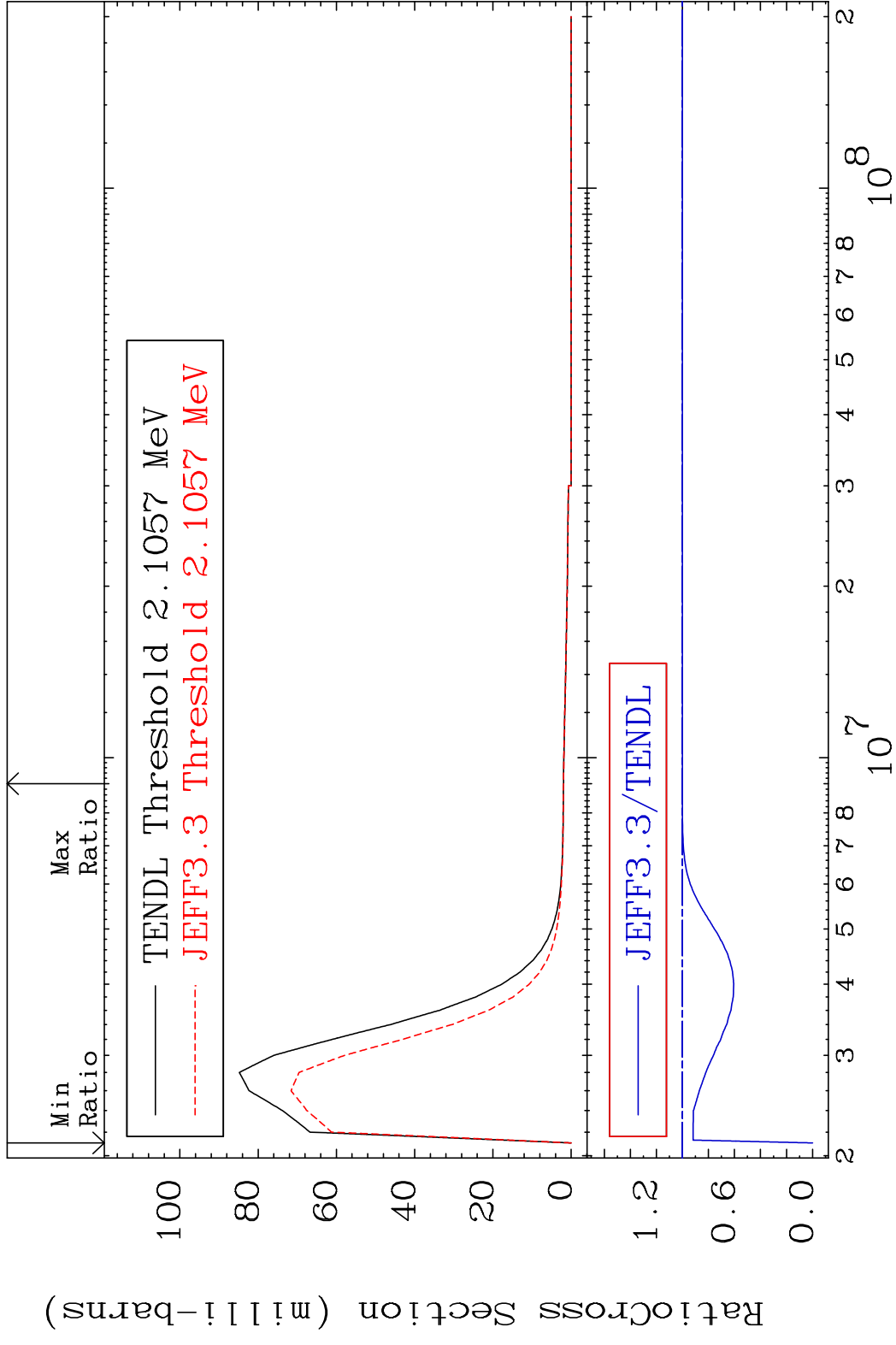
MT= 67 (n, n') Level

64-Gd-150

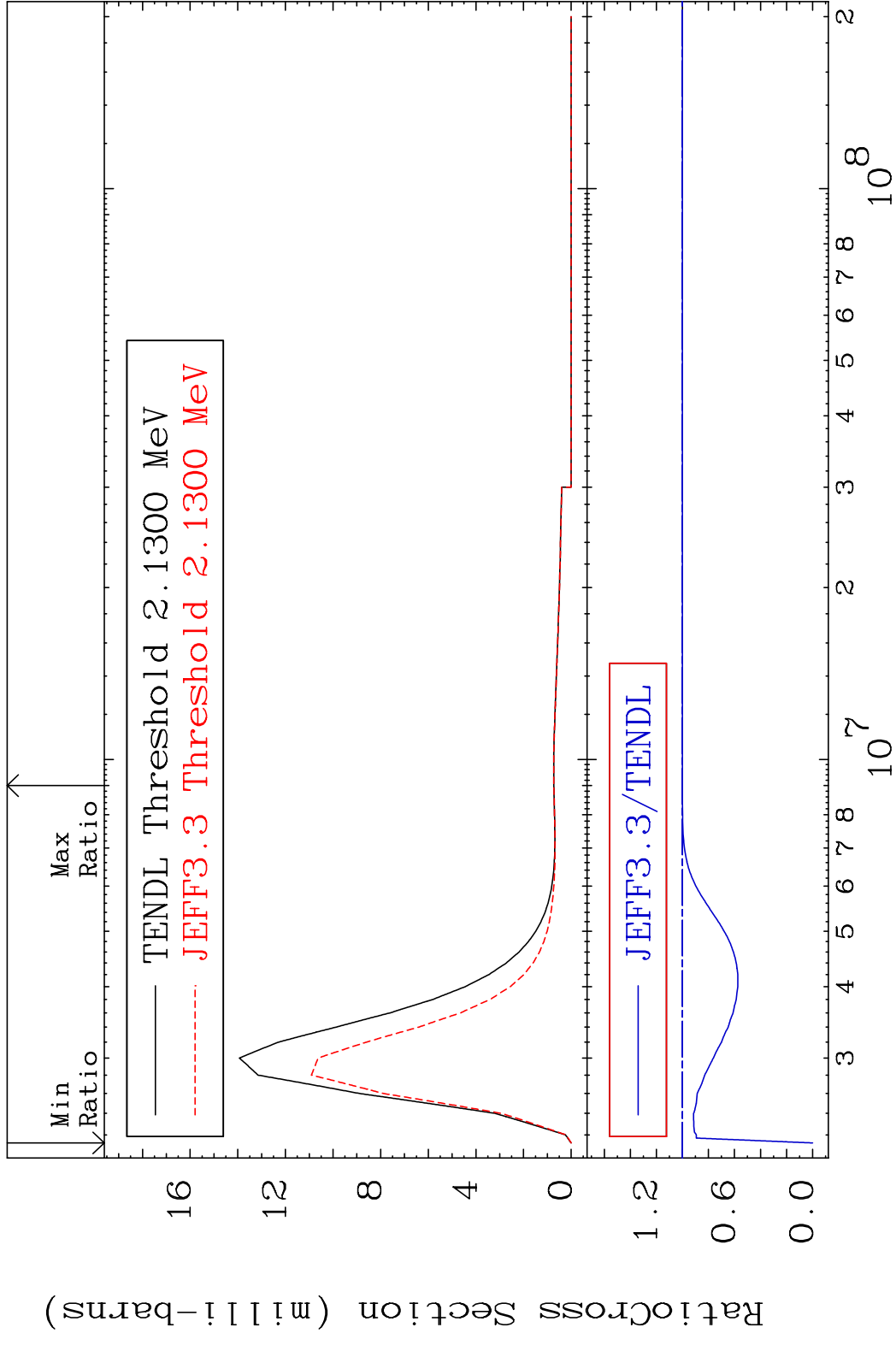
Cross Section -51.60 To 636.6 %



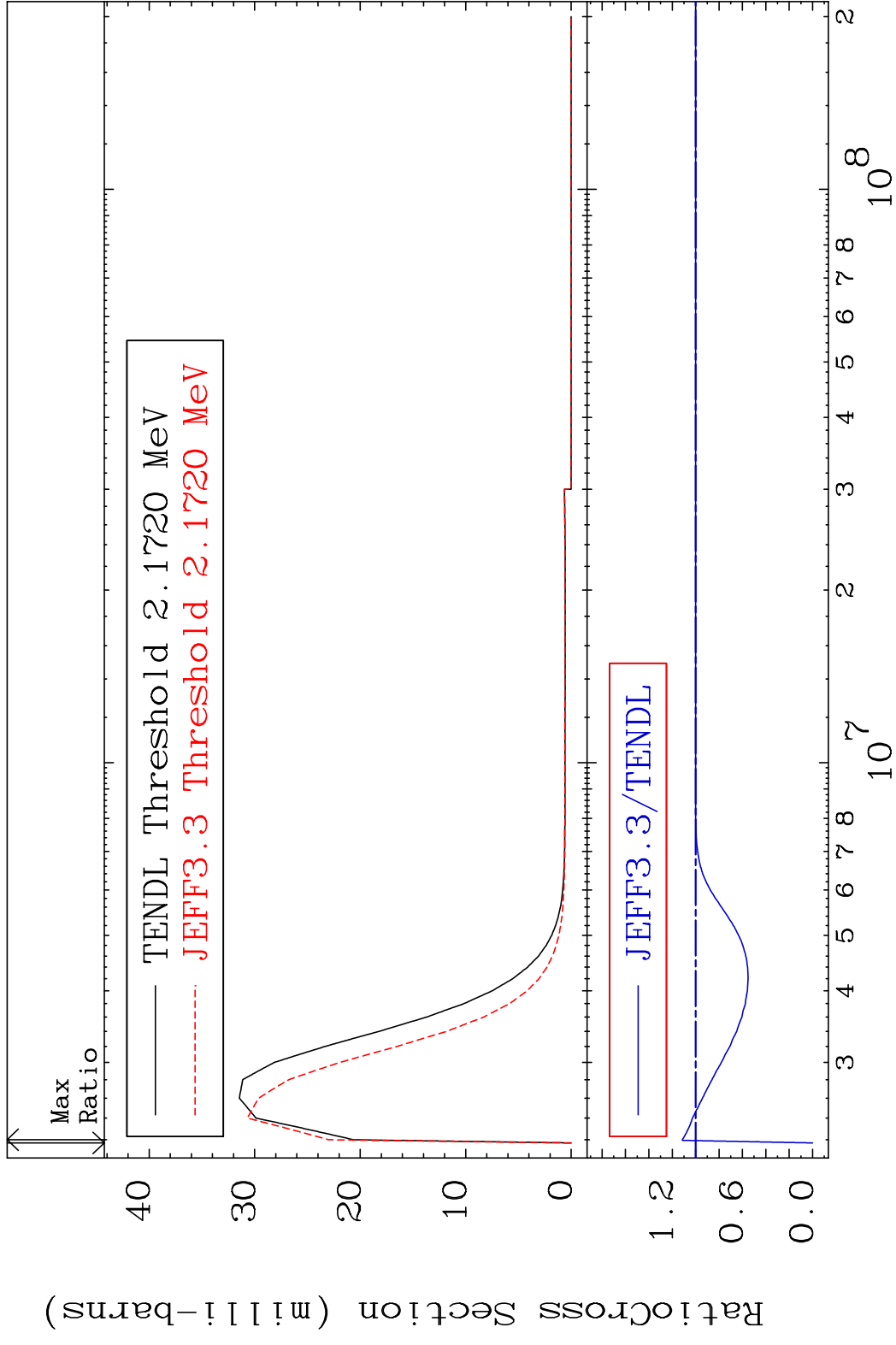
MAT 6419 MT= 68 (n,n') Level 64-Gd-150
 Cross Section -100.0 To 0.026 %



MAT 6419 MT= 69 (n,n') Level 64-Gd-150
 Cross Section -100.0 To 0.063 %

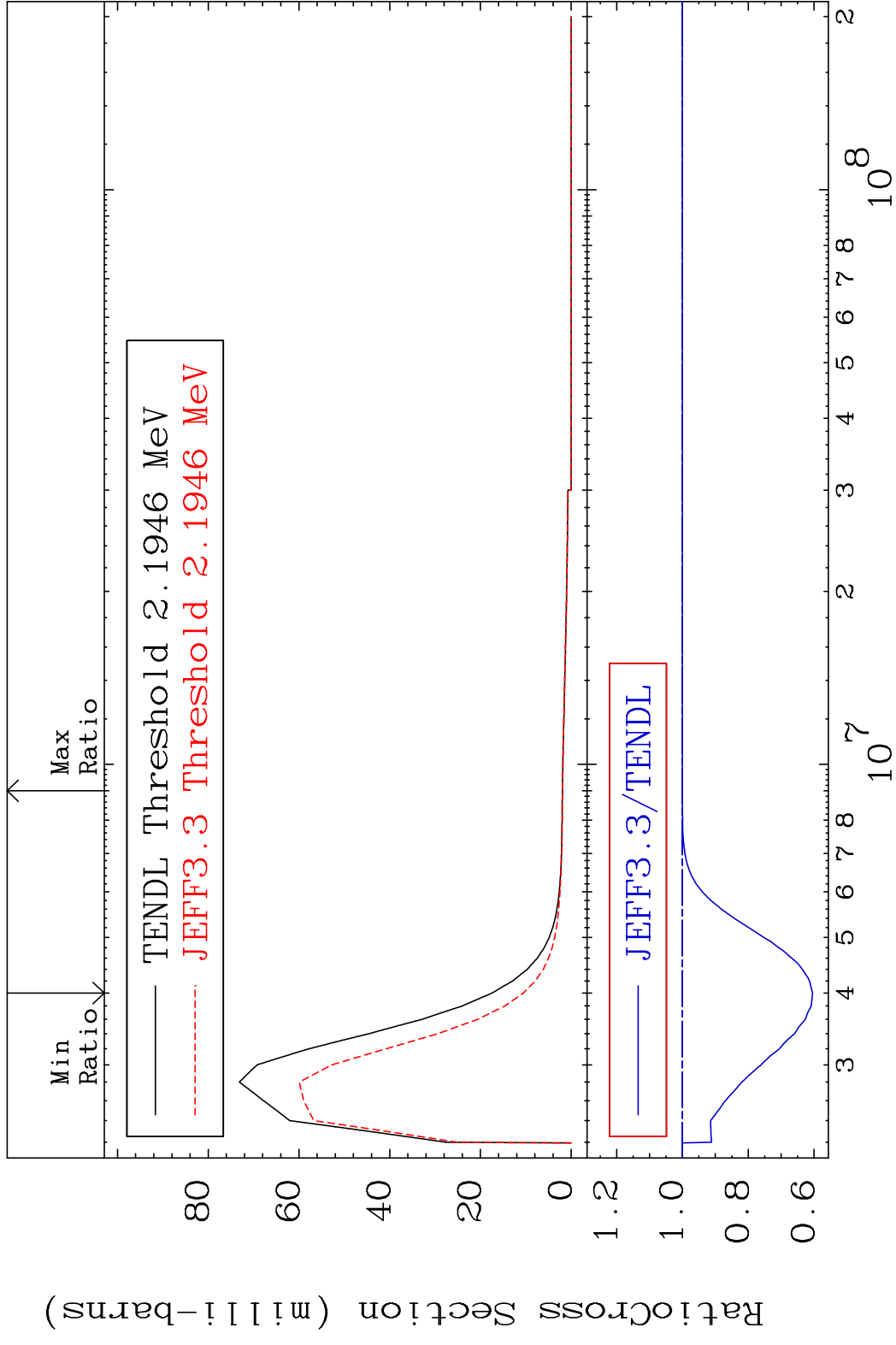


MAT 6419 MT= 70 (n,n') Level 64-Gd-150
 Cross Section -100.0 To 11.36 %

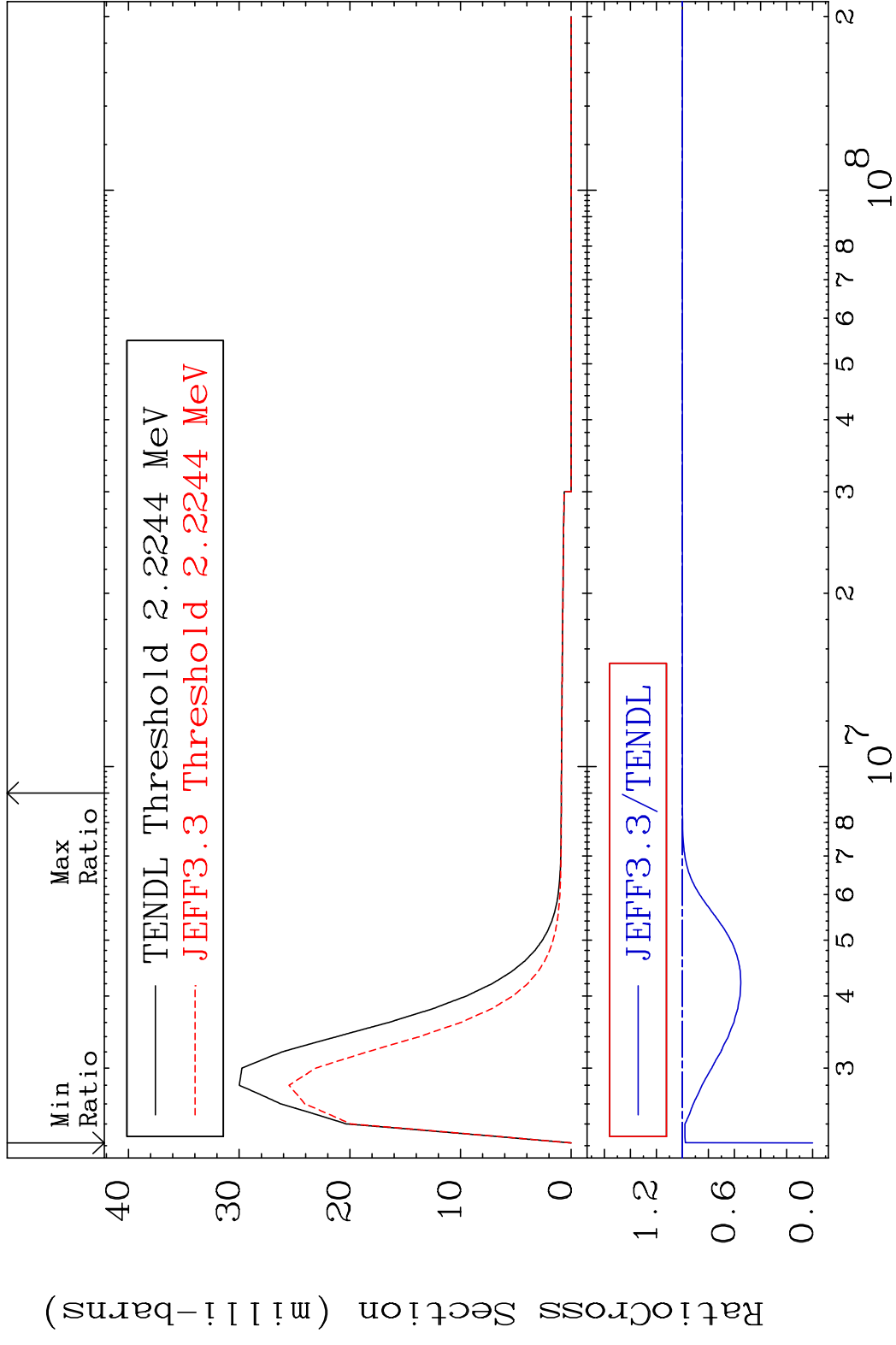


40 64-Gd-150

MAT 6419 MT= 71 (n,n') Level 64-Gd-150
 Cross Section -39.55 To 0.026 %

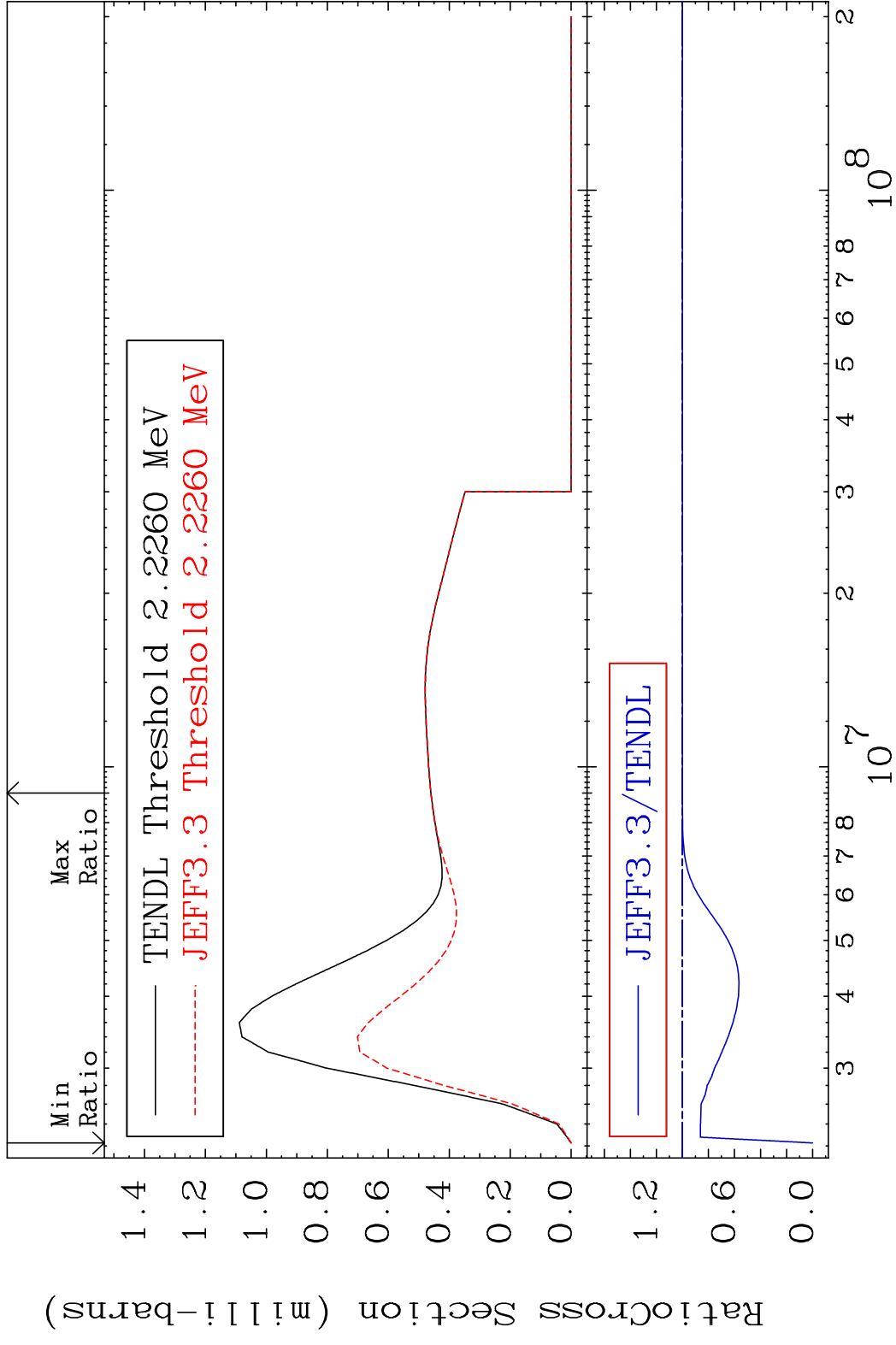


MAT 6419 MT= 72 (n, n') Level 64-Gd-150
 Cross Section -100.0 To 0.066 %



42 Incident Energy (eV) 64-Gd-150

MAT 6419 MT= 73 (n, n') Level 64-Gd-150
 Cross Section -100.0 To 0.073 %

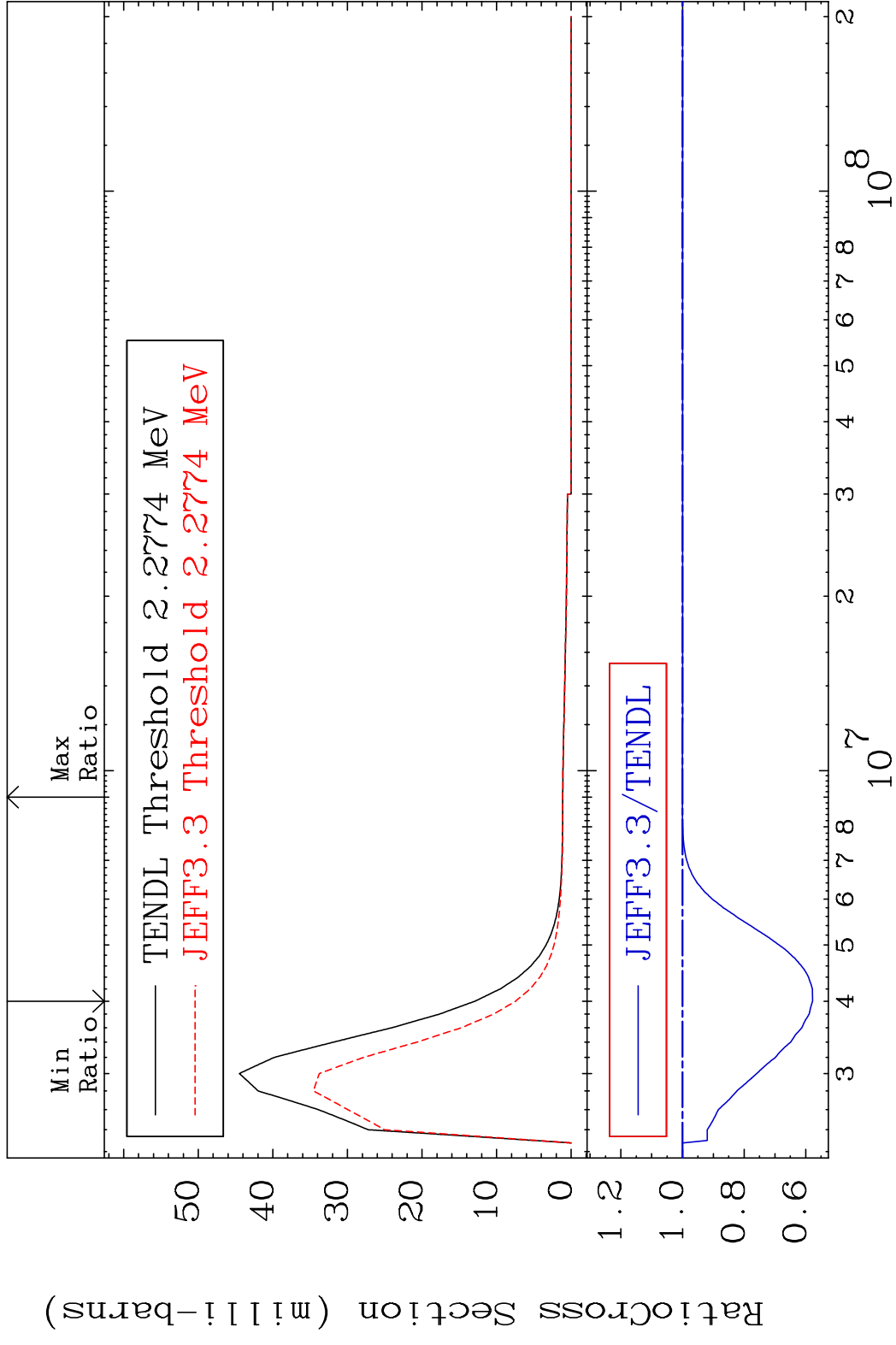


MAT 6419

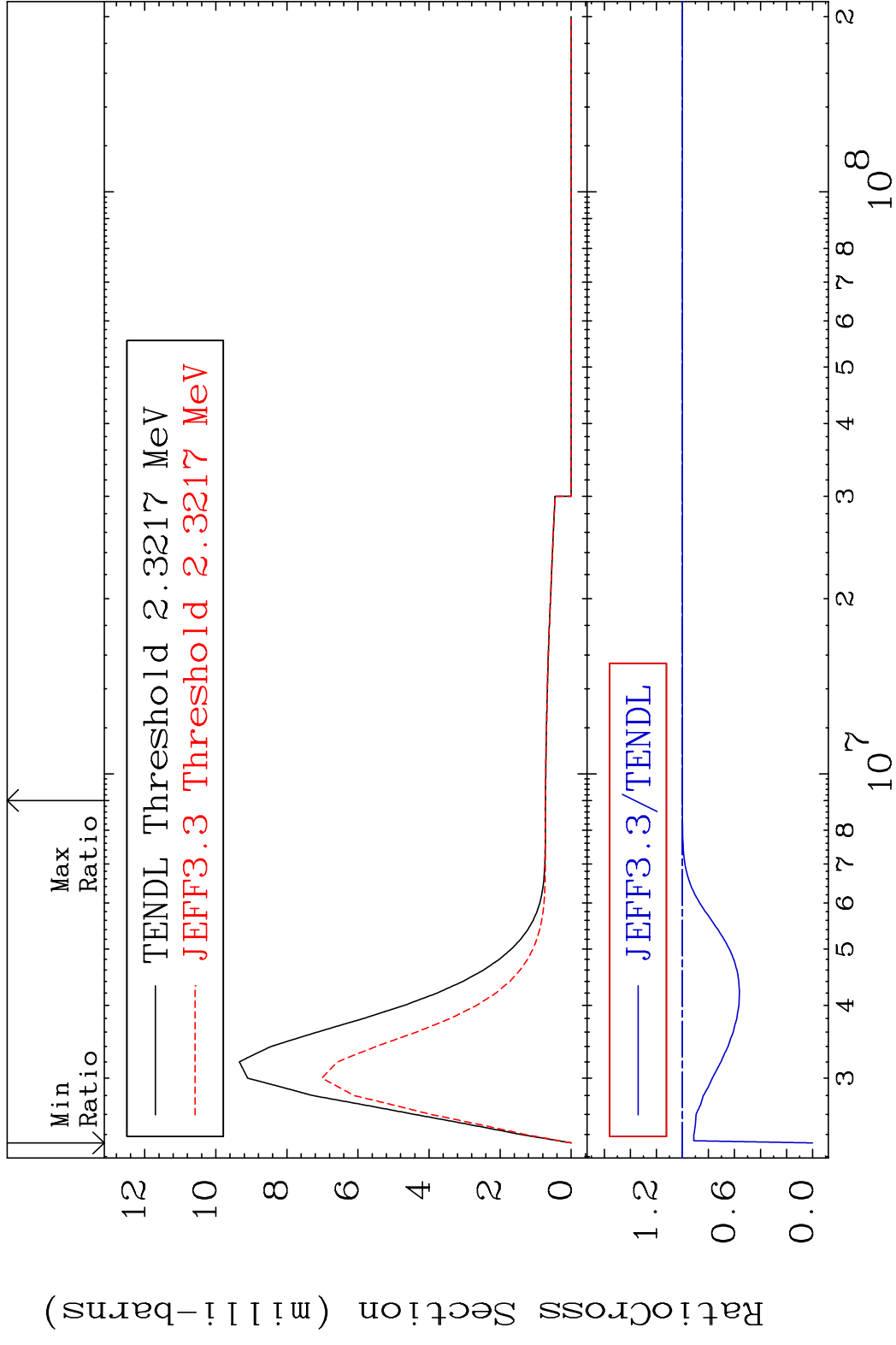
MT= 74 (n, n') Level

64-Gd-150

Cross Section -42.22 To 0.053 %



MAT 6419 MT= 75 (n,n') Level 64-Gd-150
 Cross Section -100.0 To 0.077 %

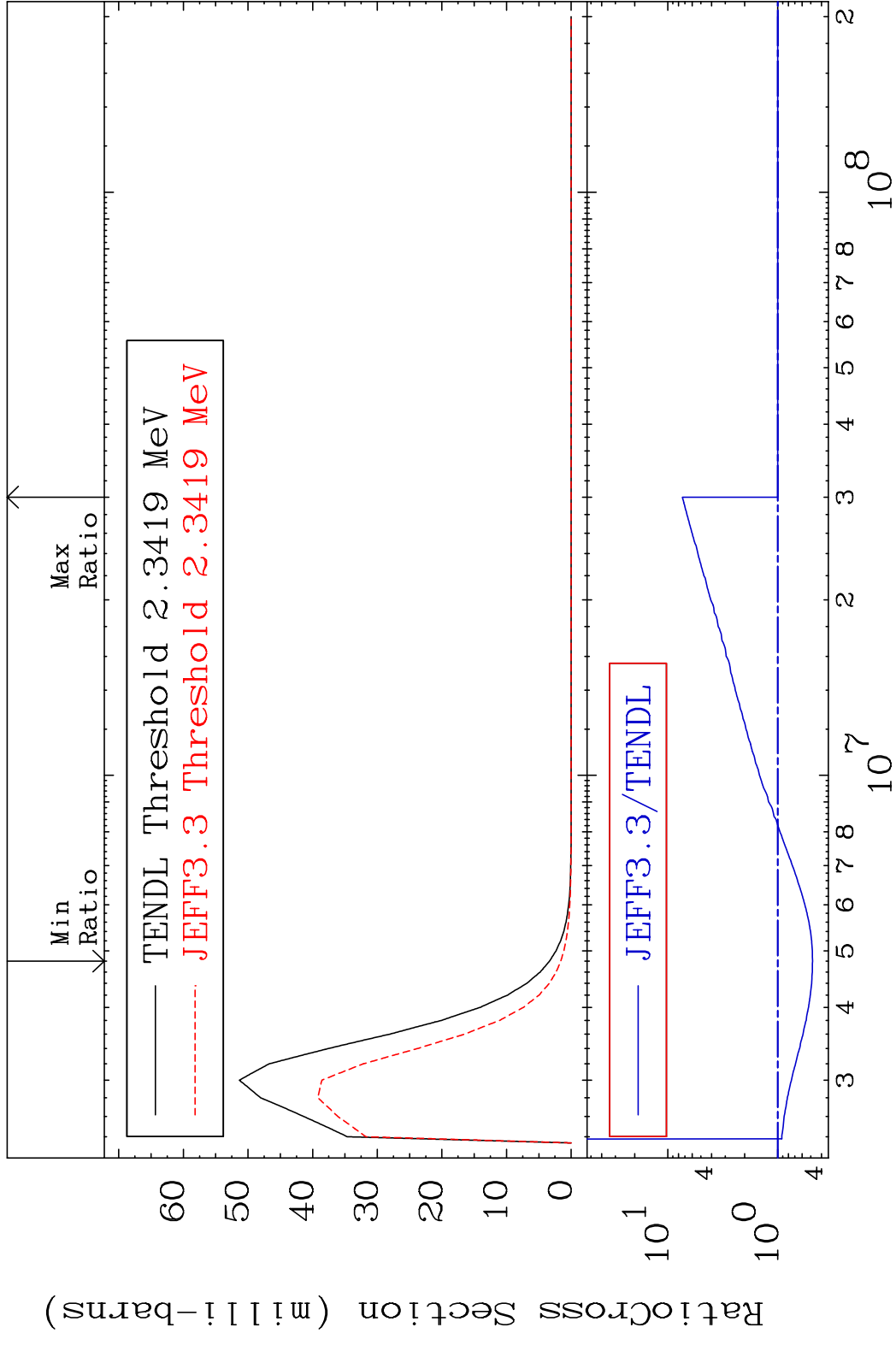


MAT 6419

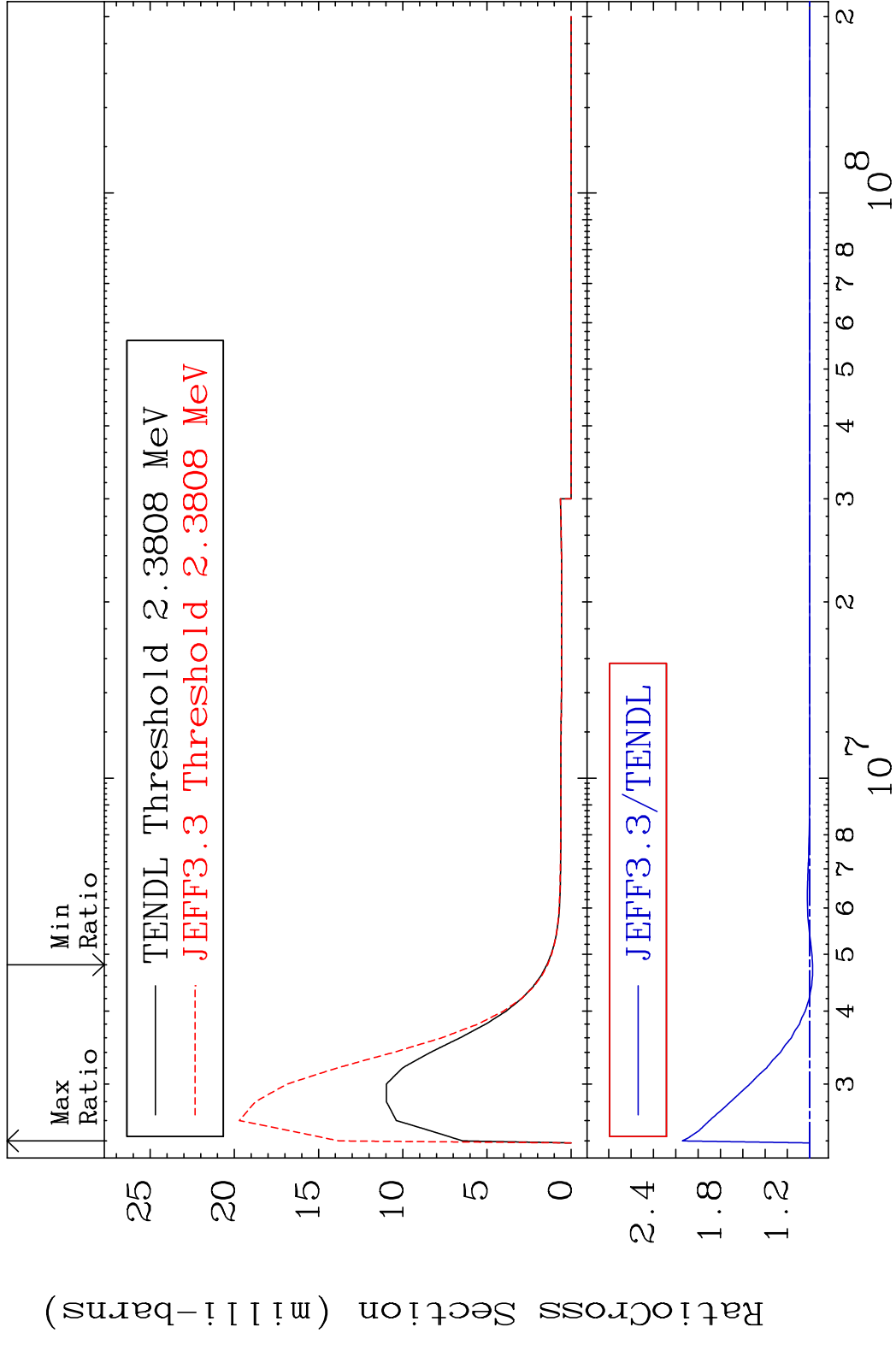
MT= 76 (n, n') Level

64-Gd-150

Cross Section -51.84 To 637.2 %



MAT 6419 MT= 77 (n,n') Level 64-Gd-150
 Cross Section -2.533 To 114.1 %

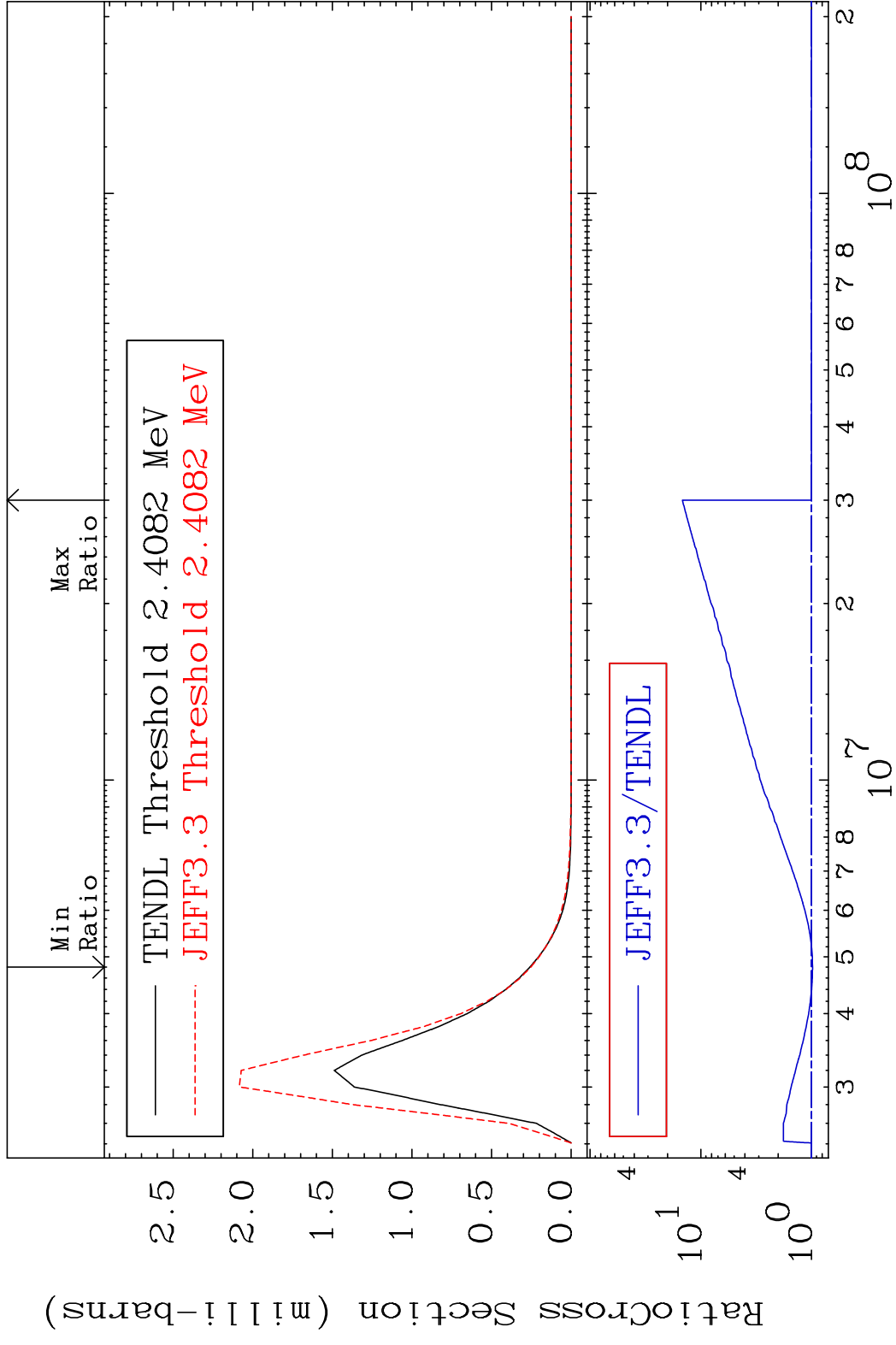


MAT 6419

MT= 78 (n, n') Level

64-Gd-150

Cross Section -2.166 To 1368. %

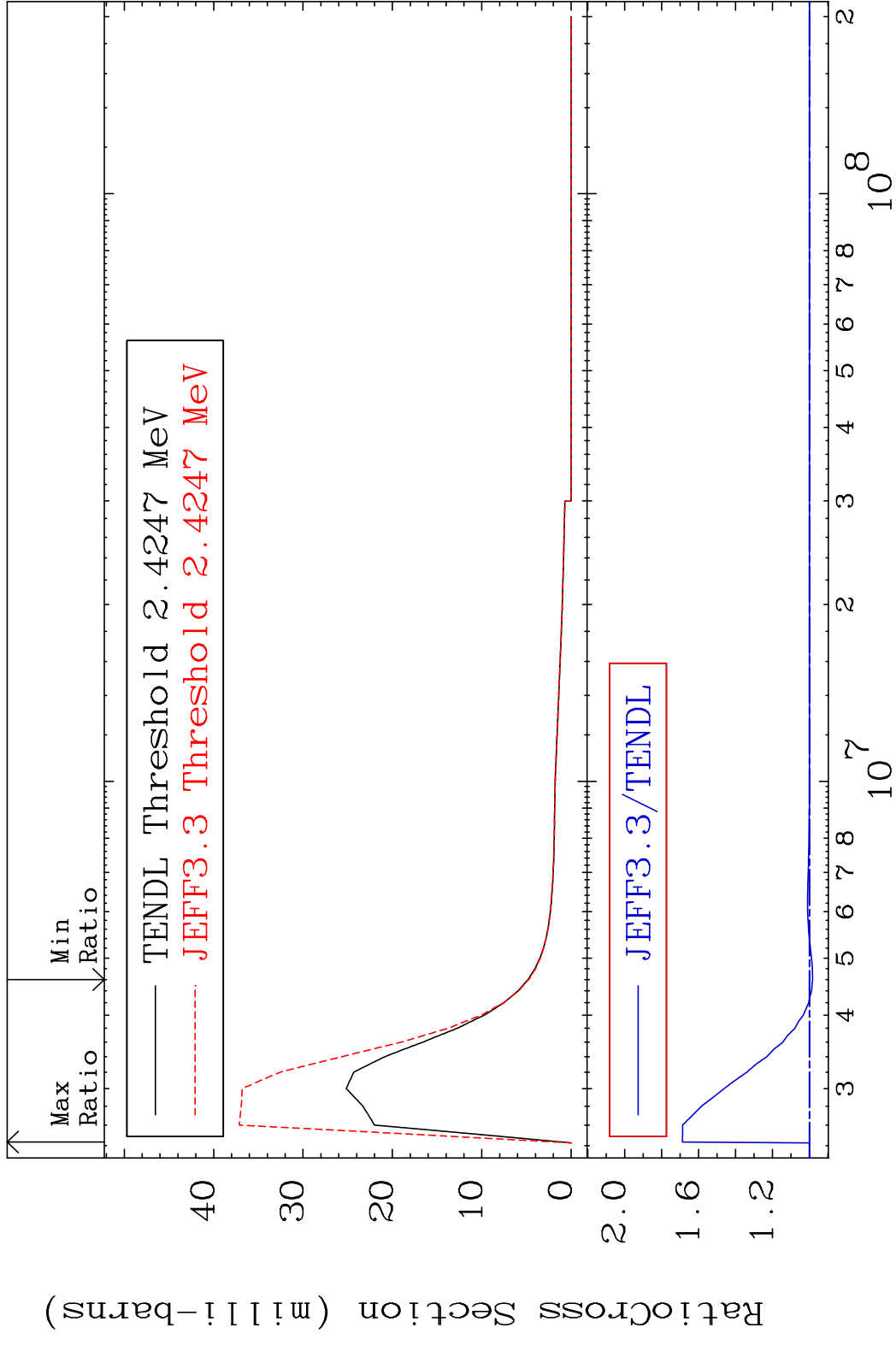


MAT 6419

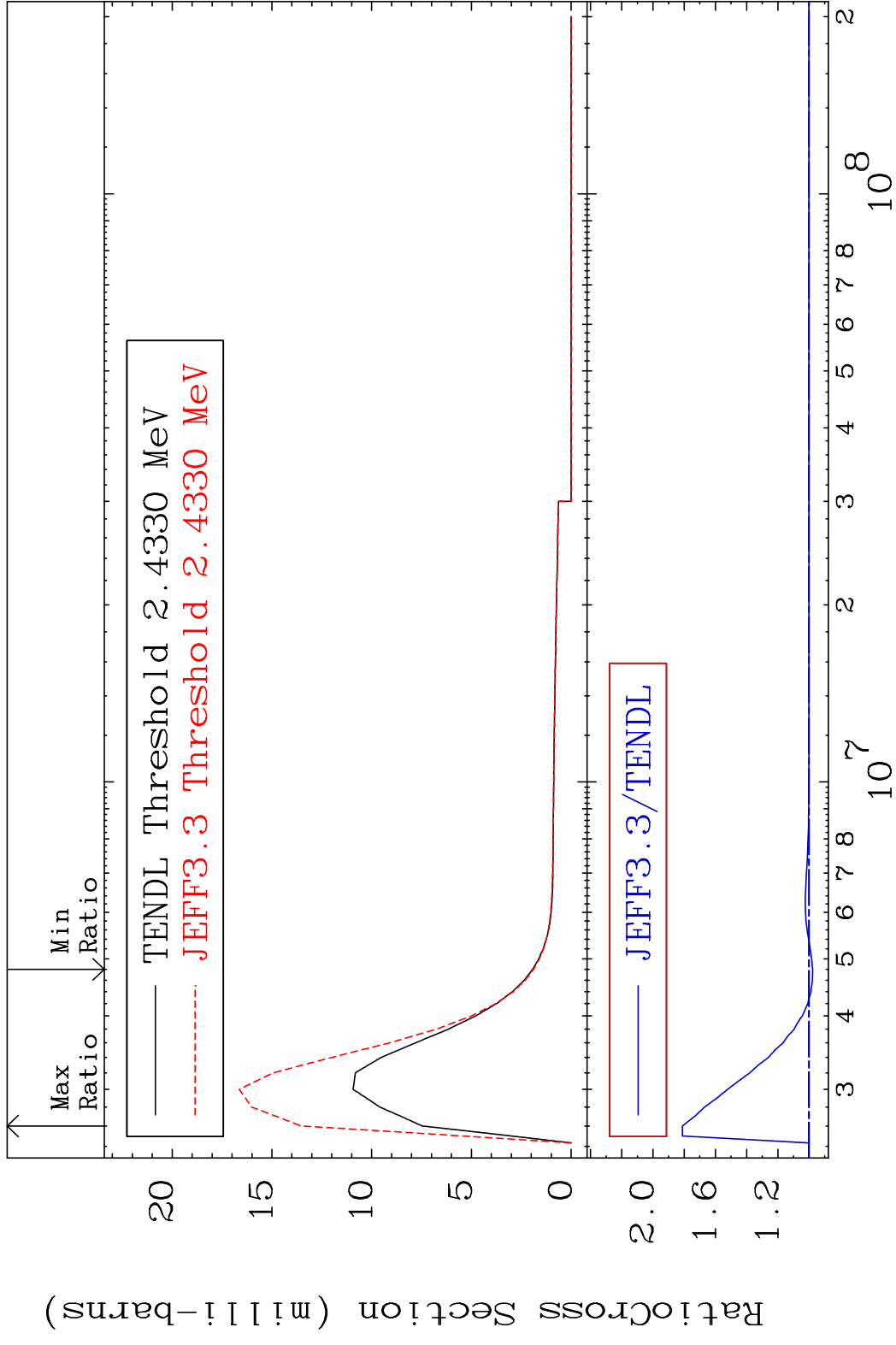
MT= 79 (n, n') Level

64-Gd-150

Cross Section -1.666 To 68.83 %



MAT 6419 MT= 80 (n,n') Level 64-Gd-150
 Cross Section -2.241 To 81.19 %

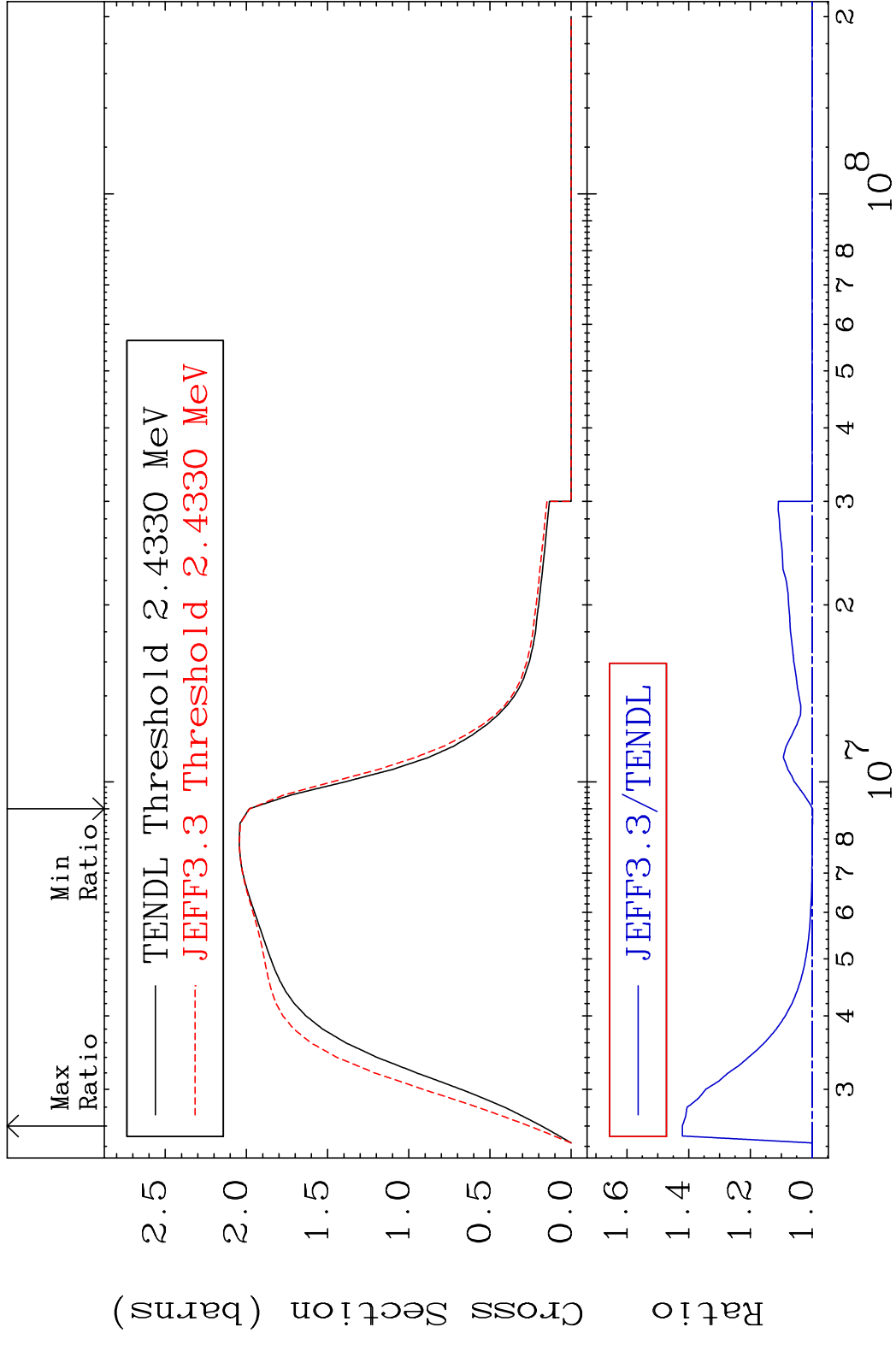


MAT 6419

(n, n') Continuum

64-Gd-150

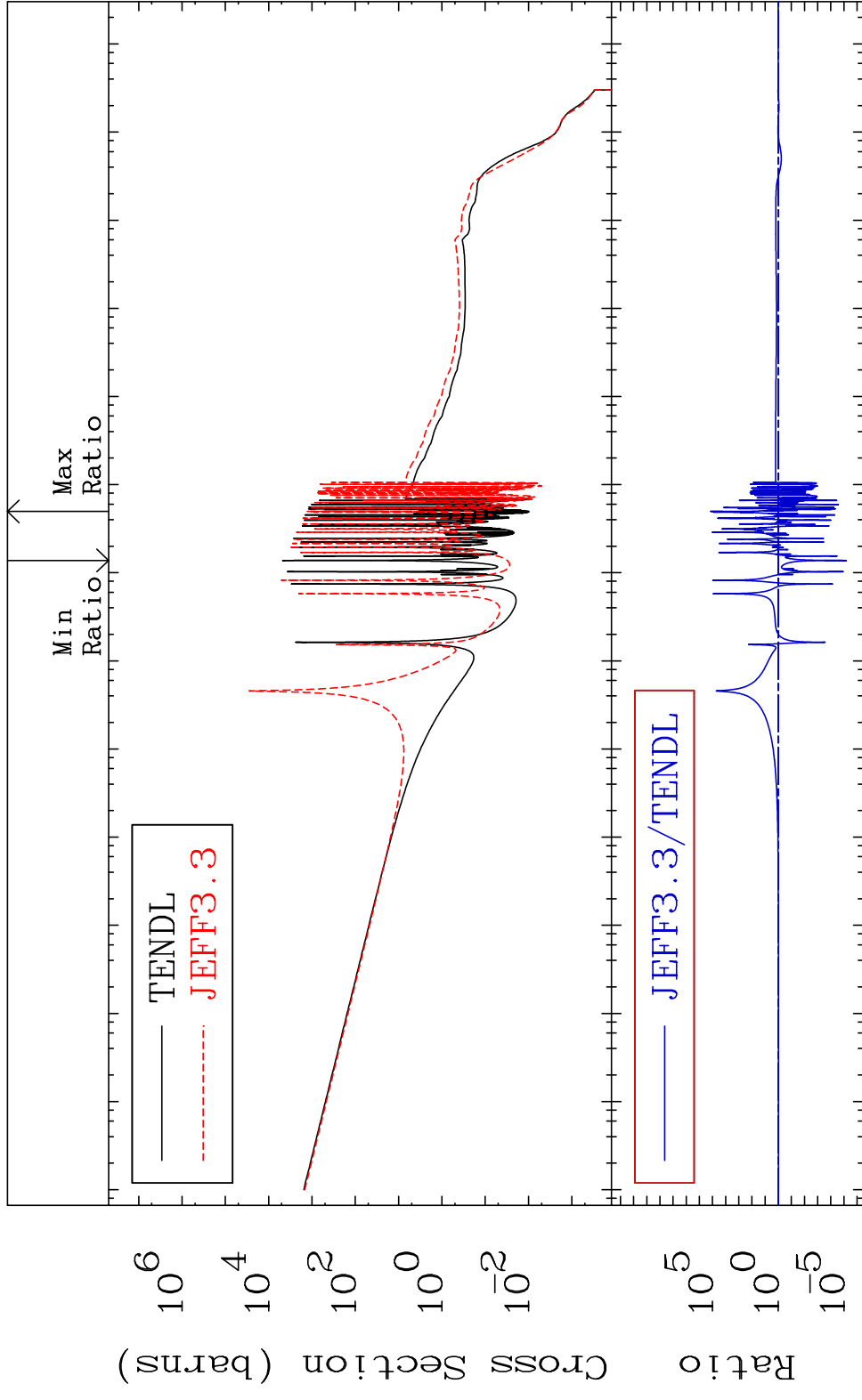
Cross Section -0.124 To 42.05 %

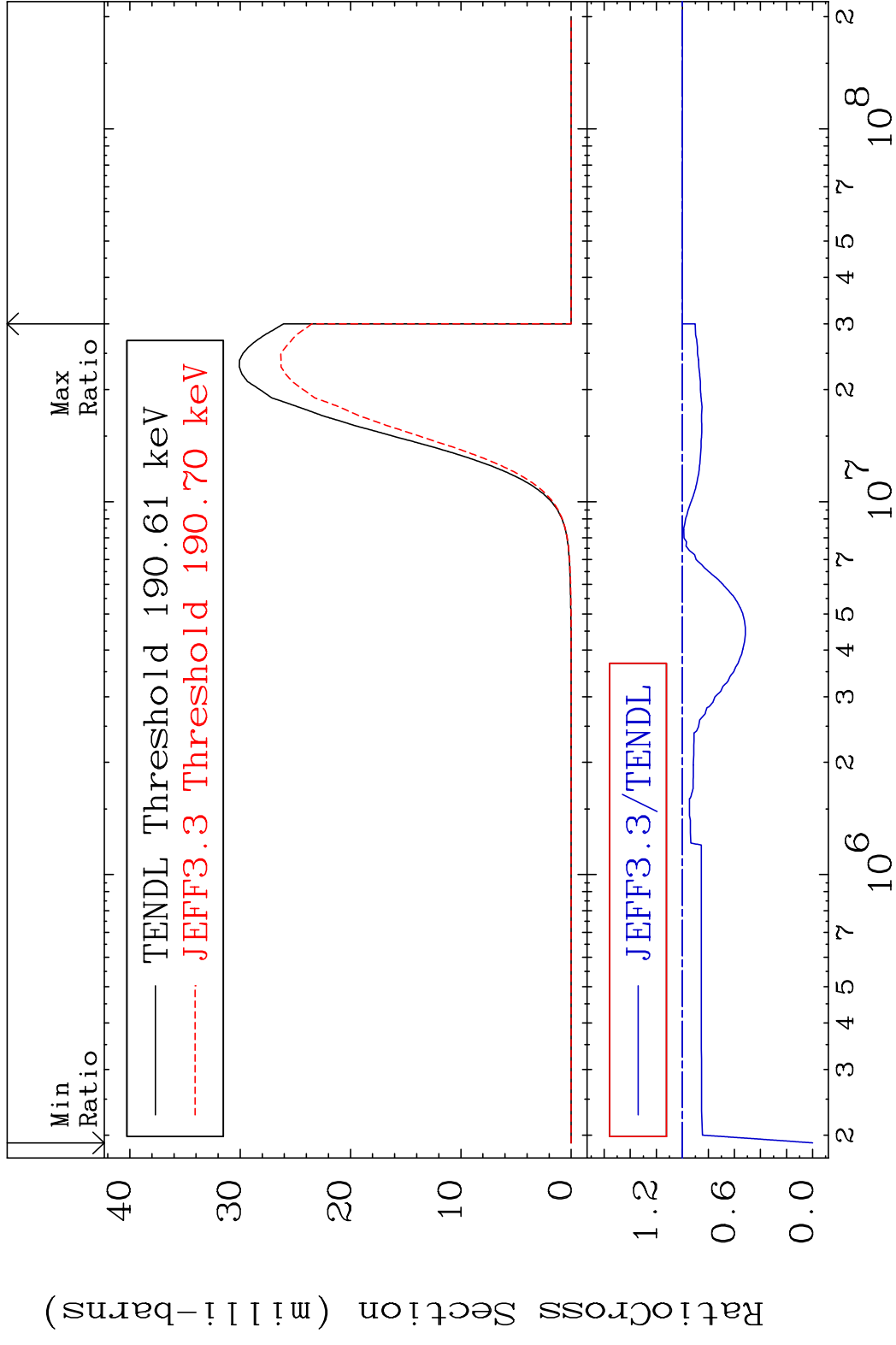


MAT 6419

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

64-Gd-150



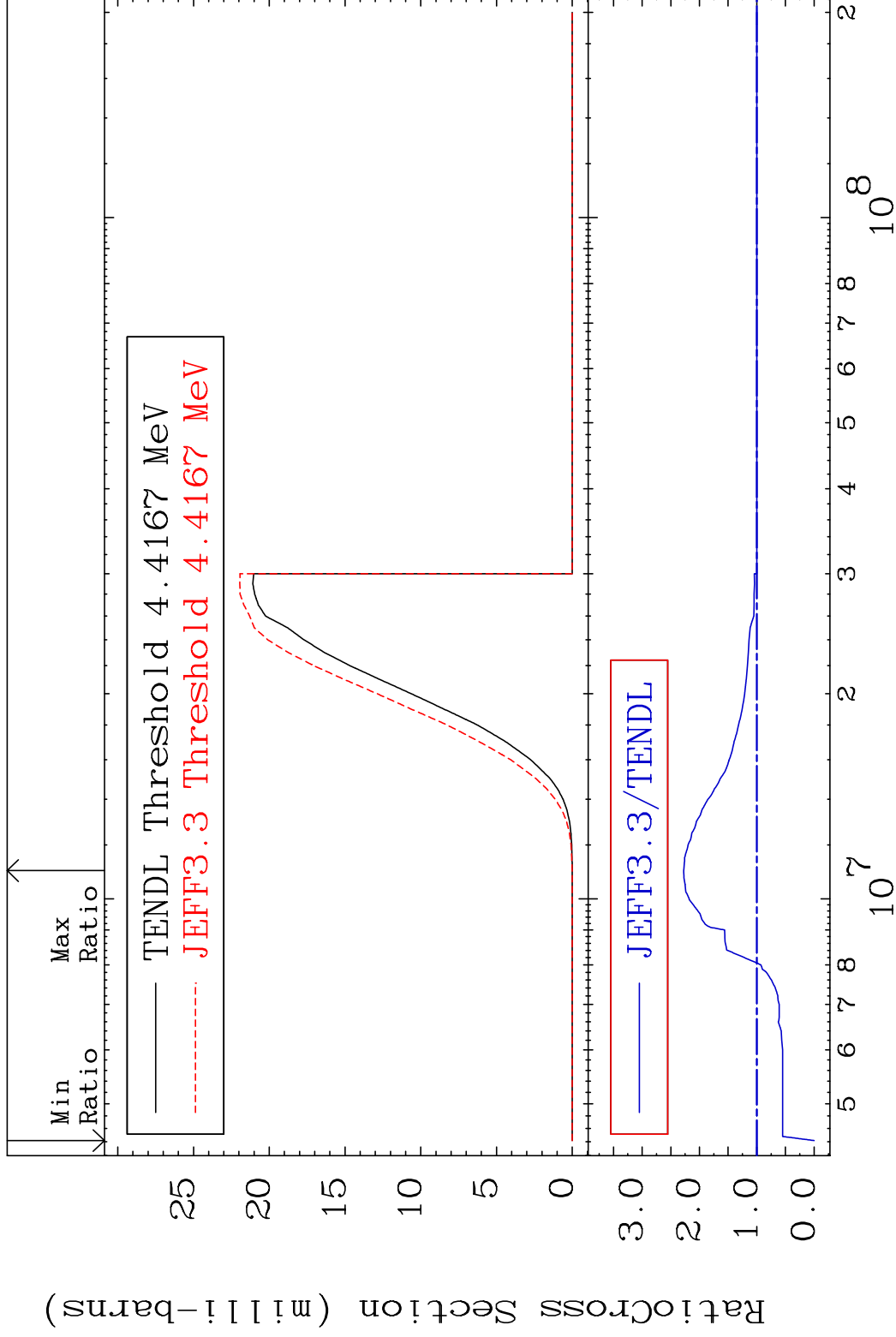


MAT 6419

(n,d)

64-Gd-150

Cross Section -100.0 To 127.6 %

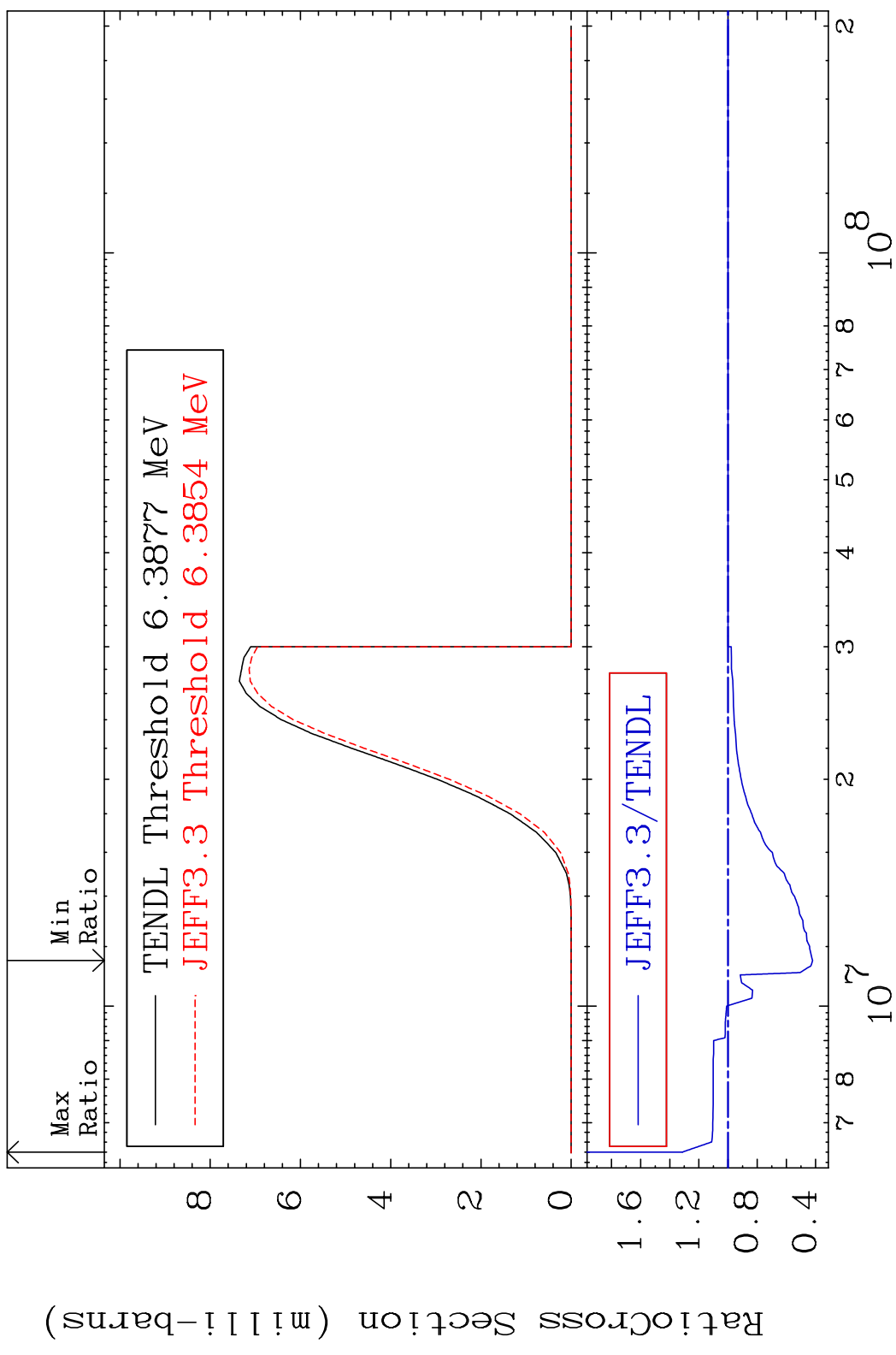


MAT 6419

(n, t)

64-Gd-150

Cross Section -57.95 To 31.35 %



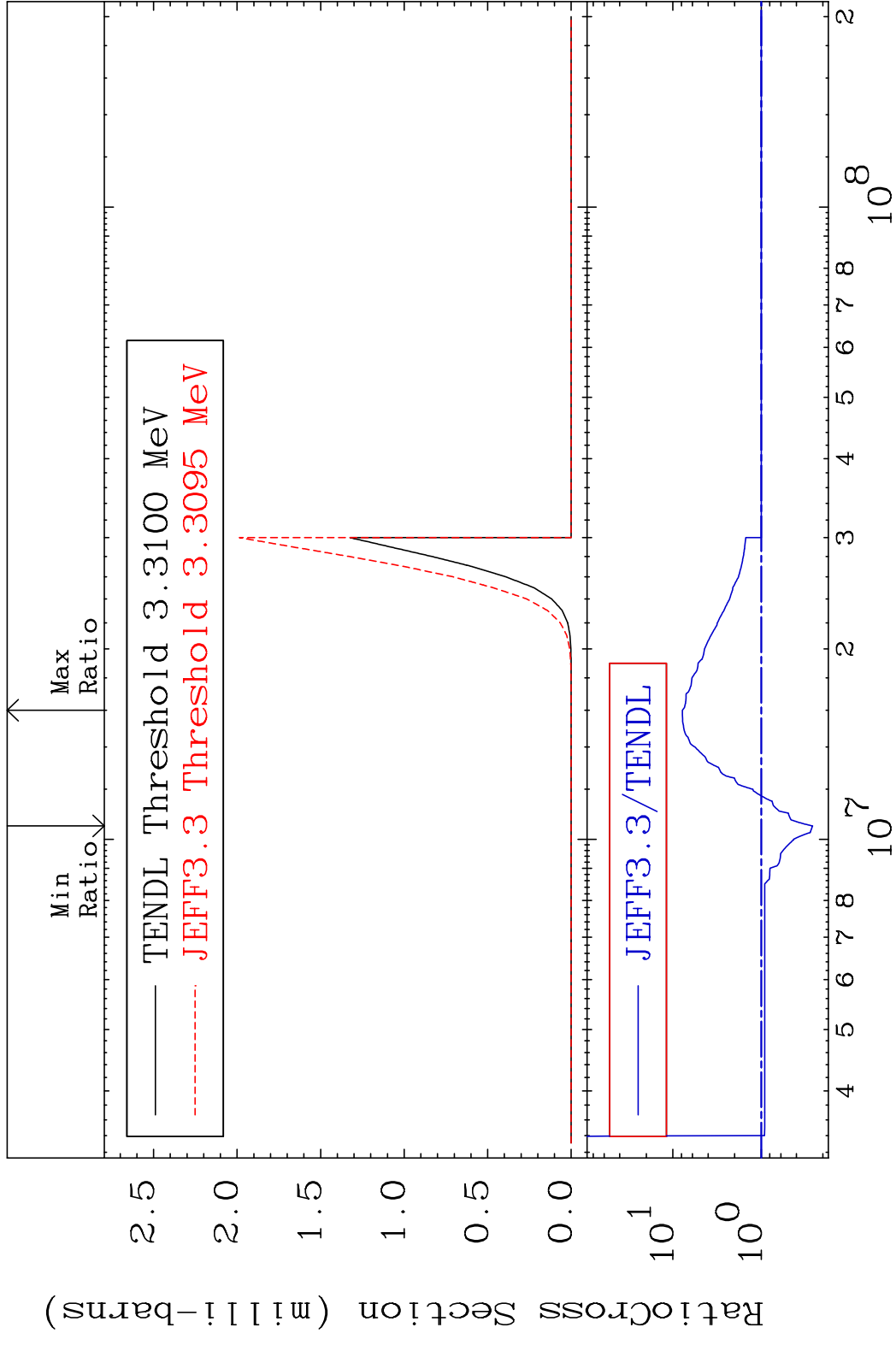
MAT 6419

(n, He-3)

64-Gd-150

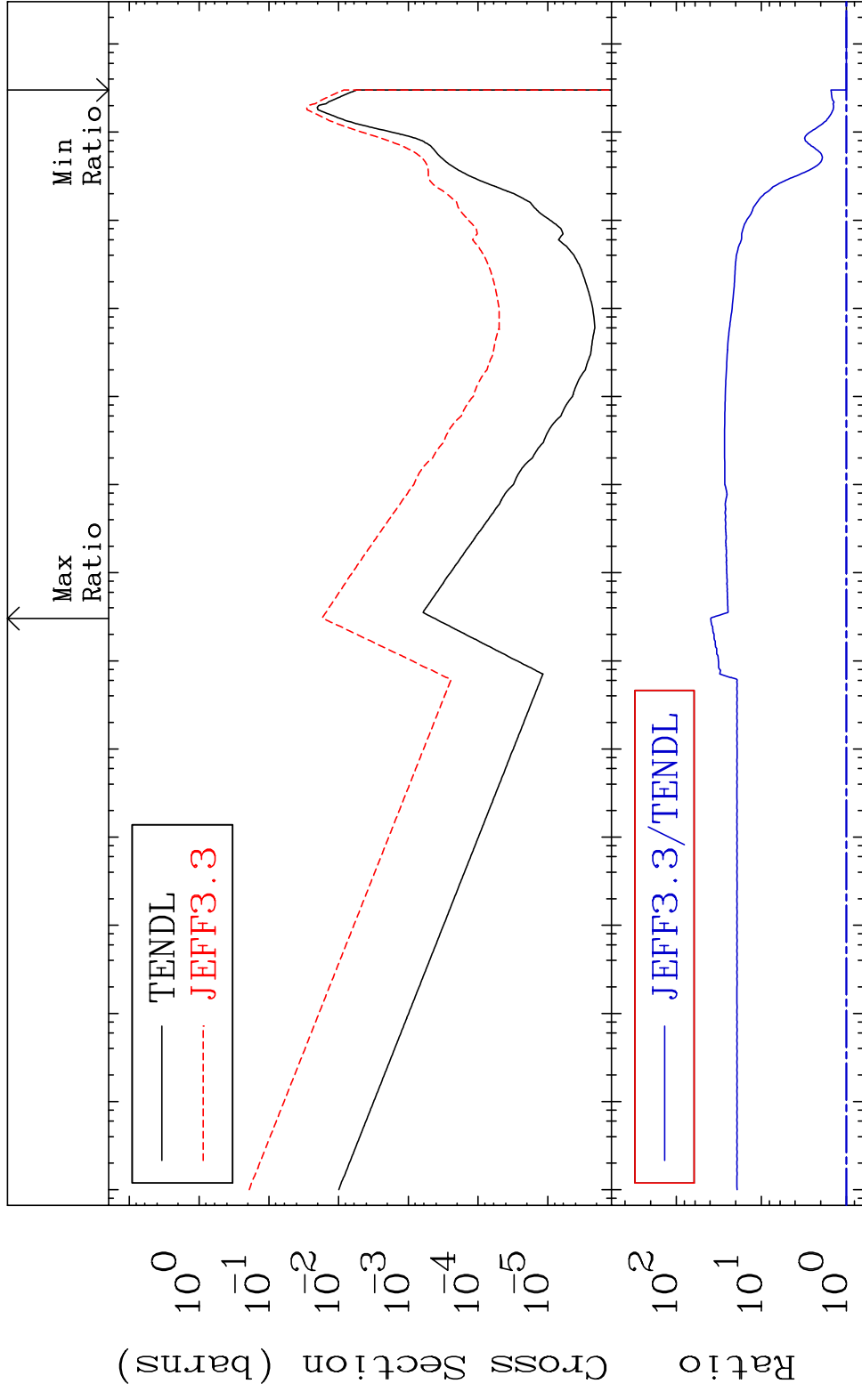
Cross Section

-73.76 To 682.0 %



MAT 6419

(n, α)
Cross Section 0.000 To 3831. %
64-Gd-150

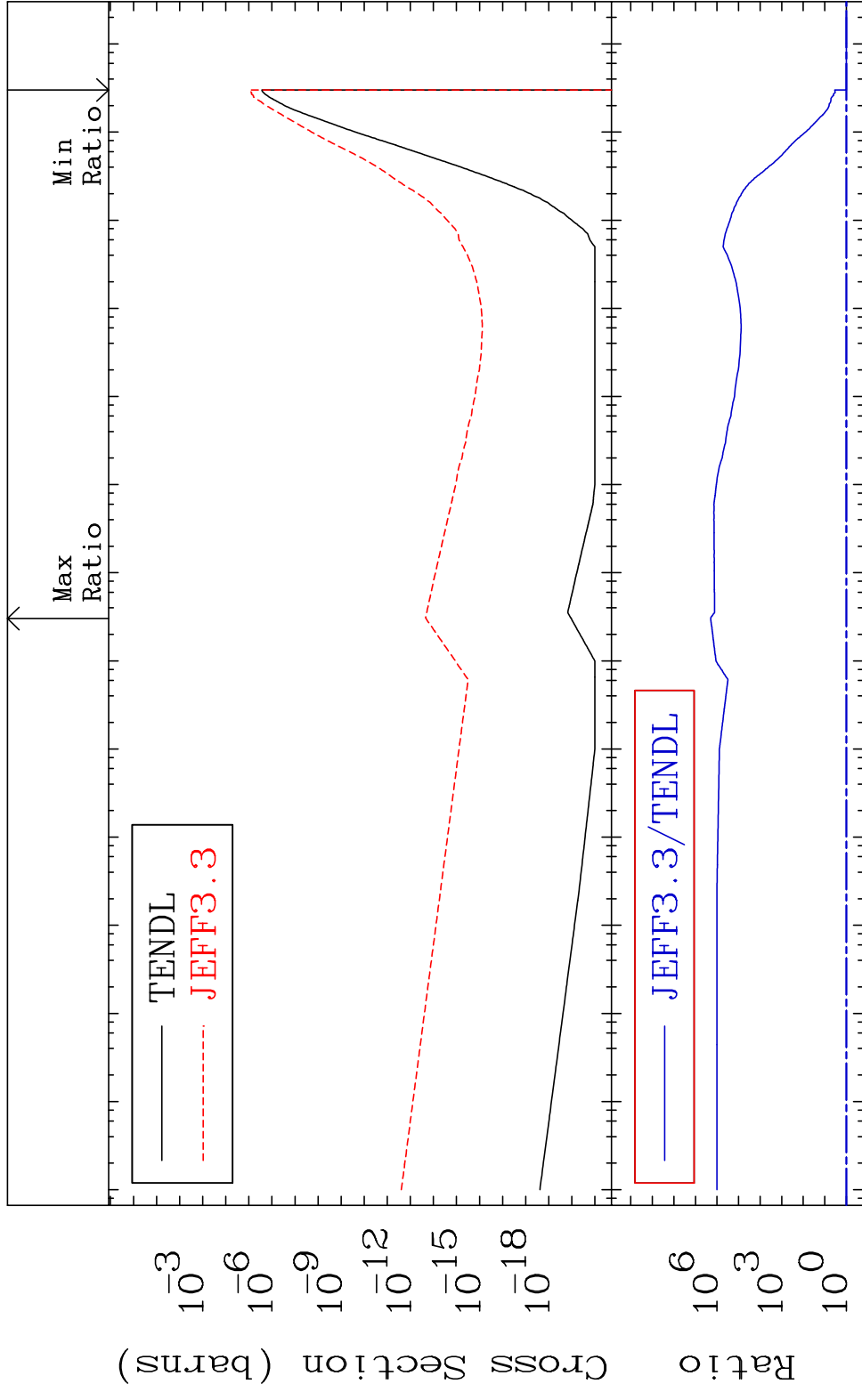


MAT 6419

64-Gd-150

(n, 2α)

Cross Section 0.000 To 9999. %

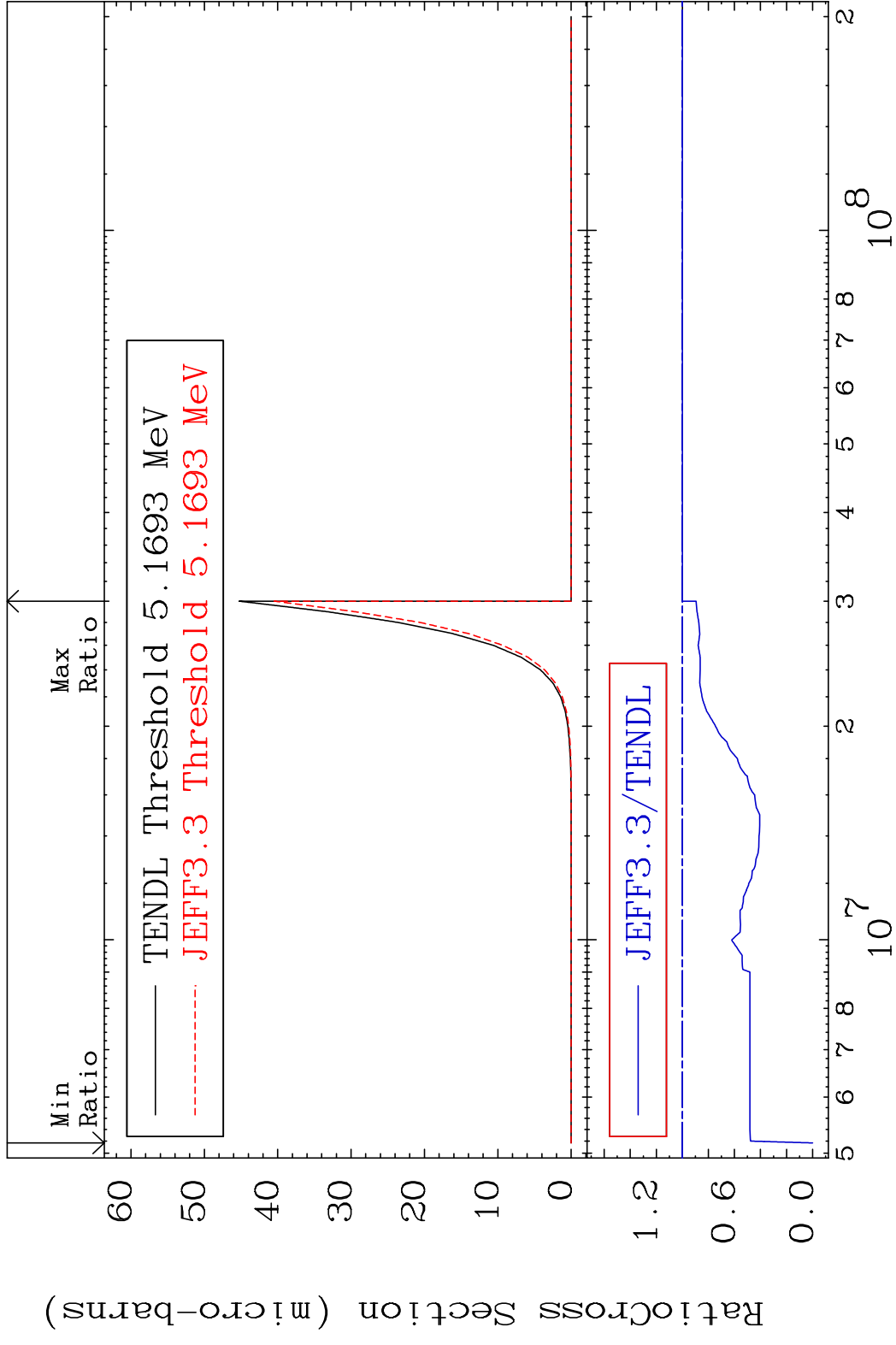


MAT 6419

(n,2p)

64-Gd-150

Cross Section -100.0 To 0.000 %

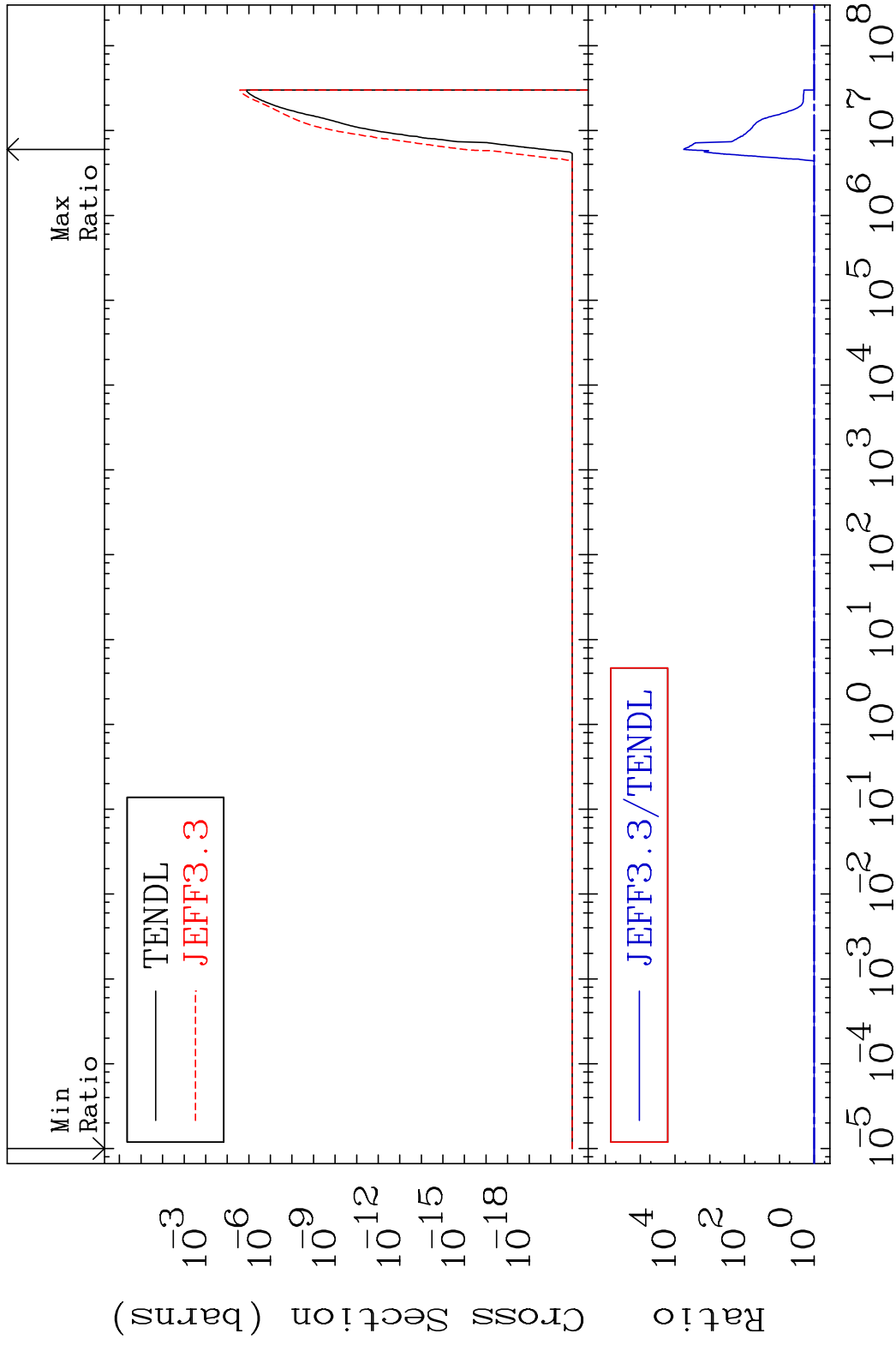


MAT 6419

(n,p) α

64-Gd-150

Cross Section 0.000 To 9999. %

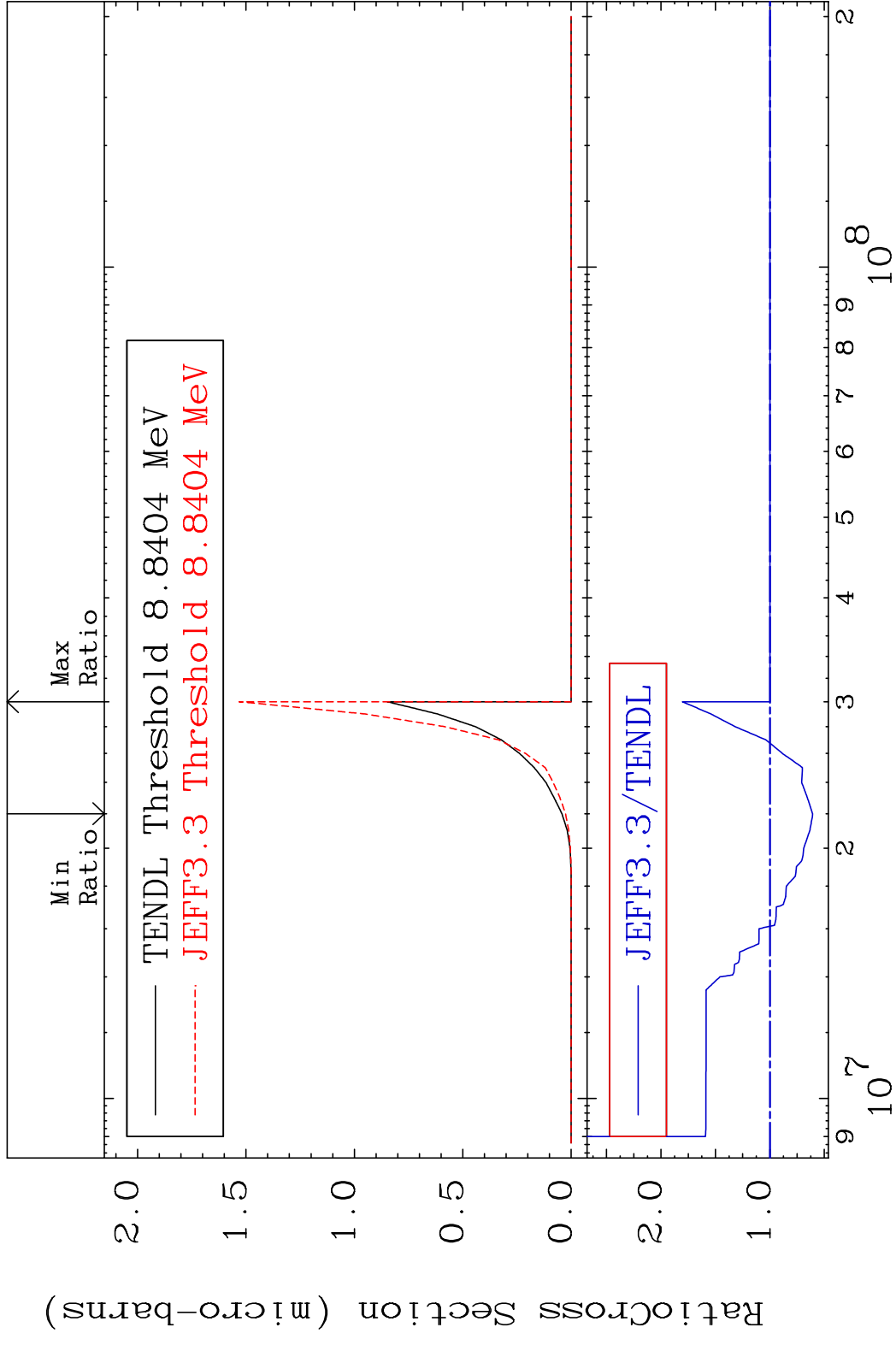


MAT 6419

(n,p) d

64-Gd-150

Cross Section -39.17 To 80.40 %



61

Incident Energy (eV)

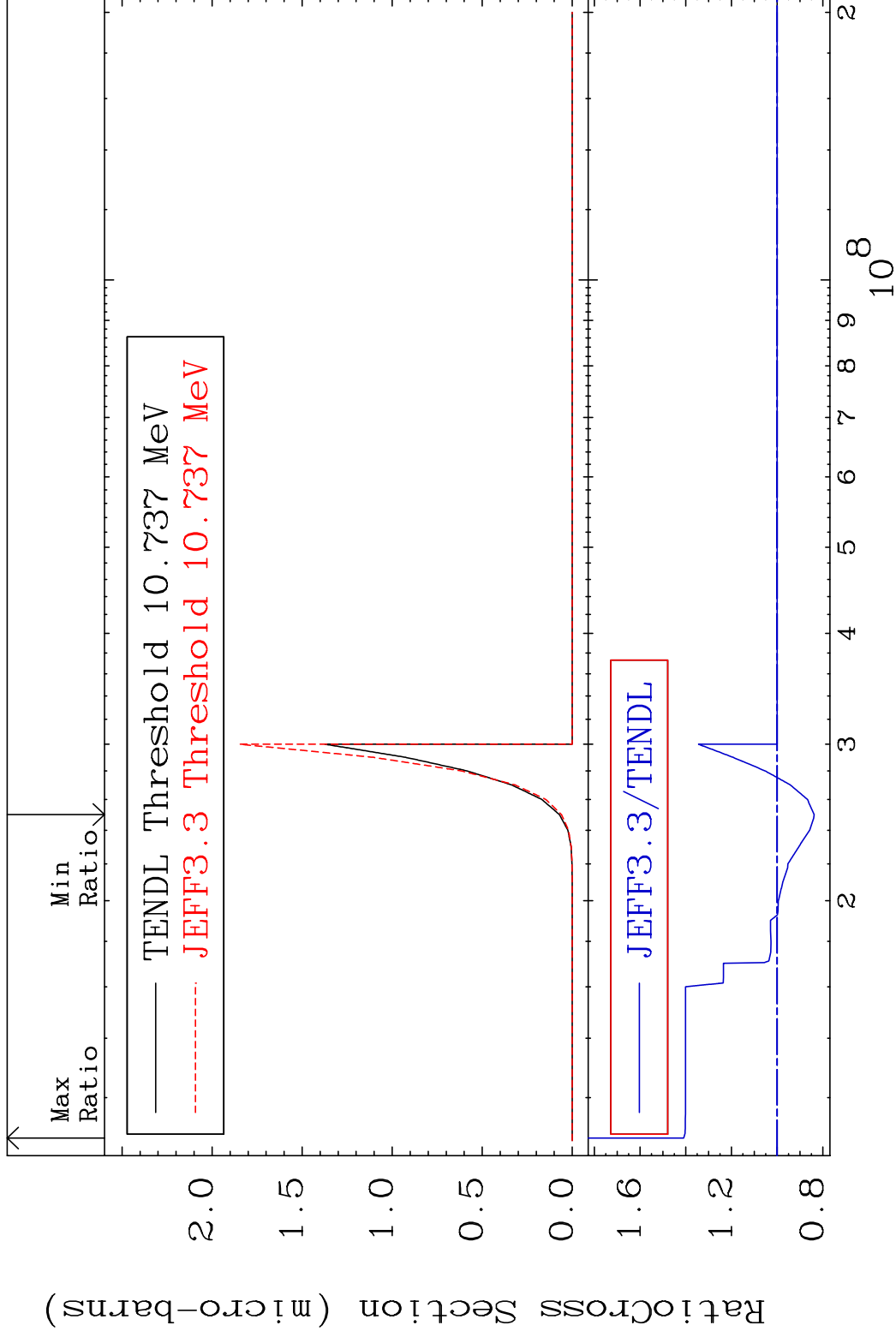
64-Gd-150

MAT 6419

(n,p) t

64-Gd-150

Cross Section -16.15 To 40.95 %



62

Incident Energy (eV)

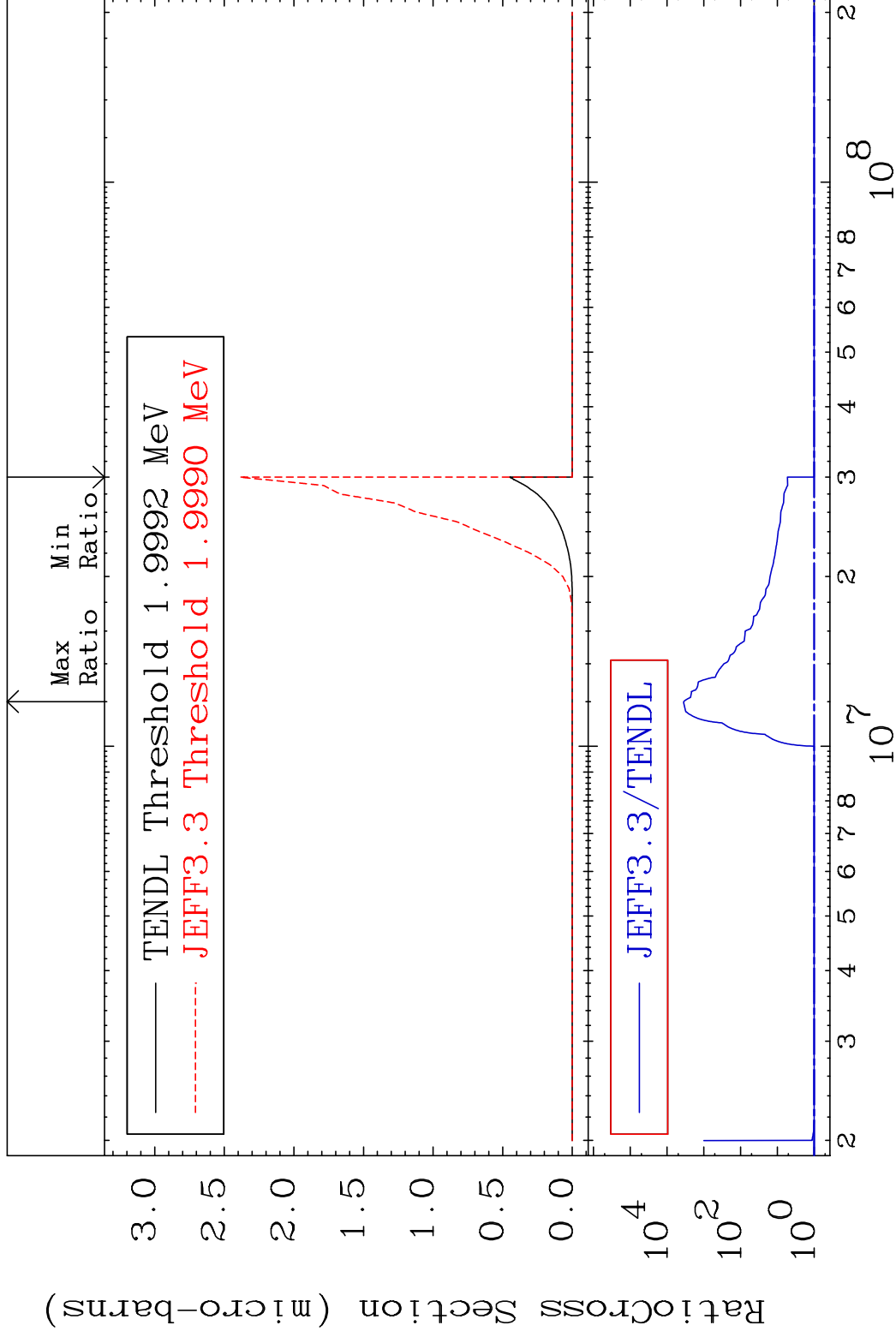
64-Gd-150

MAT 6419

(n,d) α

64-Gd-150

Cross Section 0.000 To 9999. %



63

Incident Energy (eV)

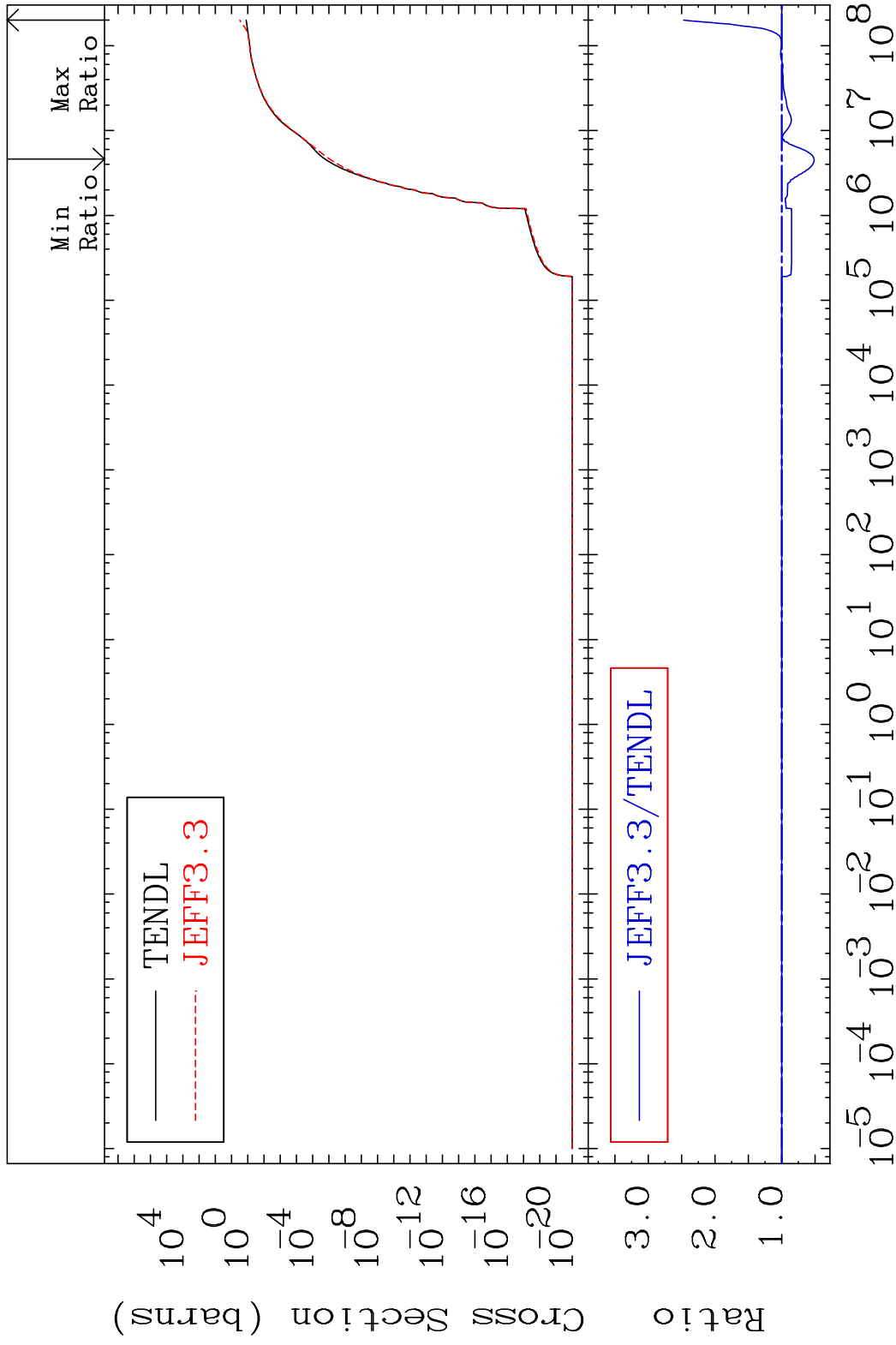
64-Gd-150

MAT 6419

Hydrogen Production

64-Gd-150

Cross Section -48.42 To 147.0 %



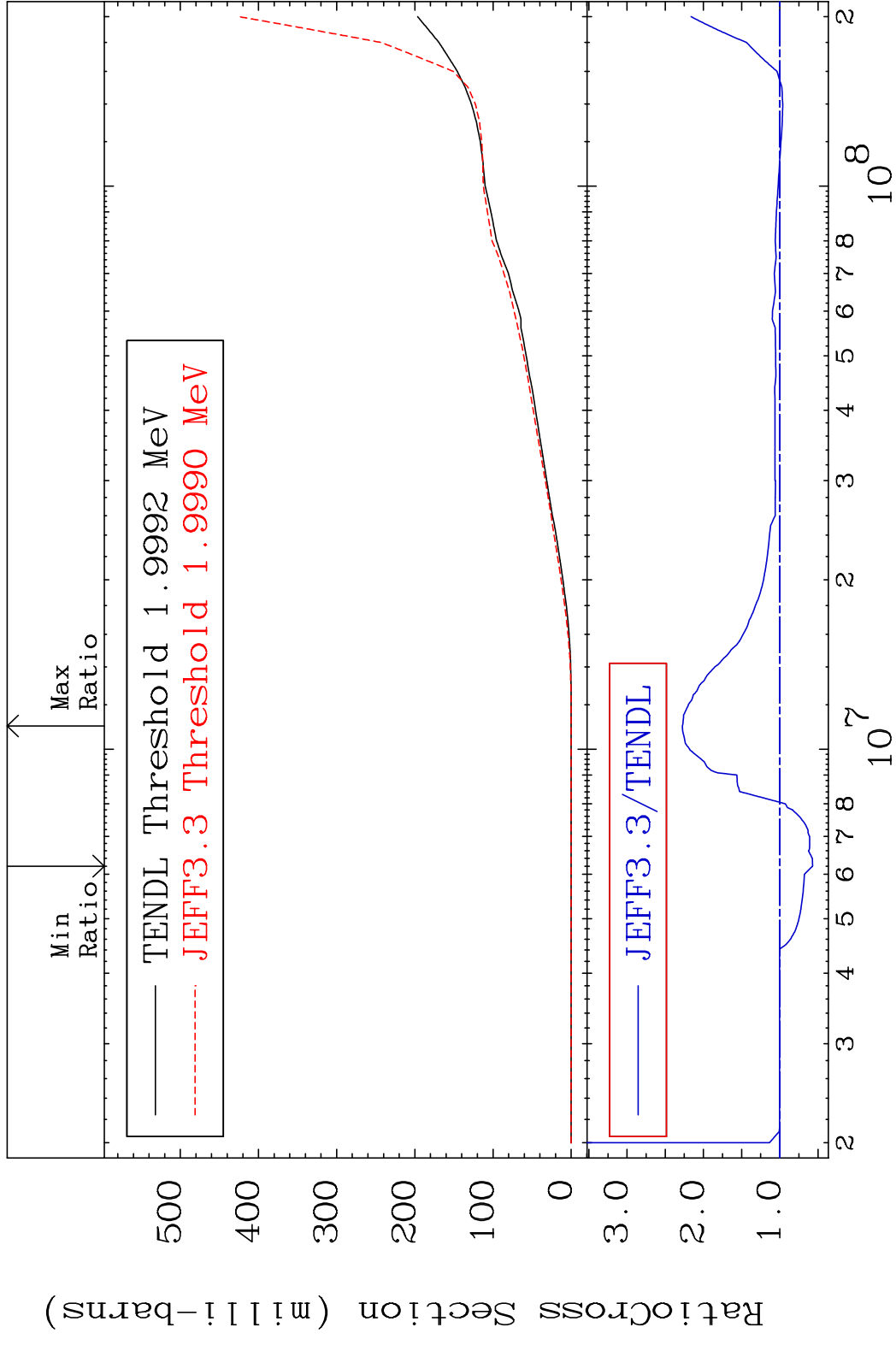
64

Incident Energy (eV)

64-Gd-150

MAT 6419

Deuterium Production 64-Gd-150
Cross Section -42.91 To 127.6 %



65

Incident Energy (eV) 64-Gd-150

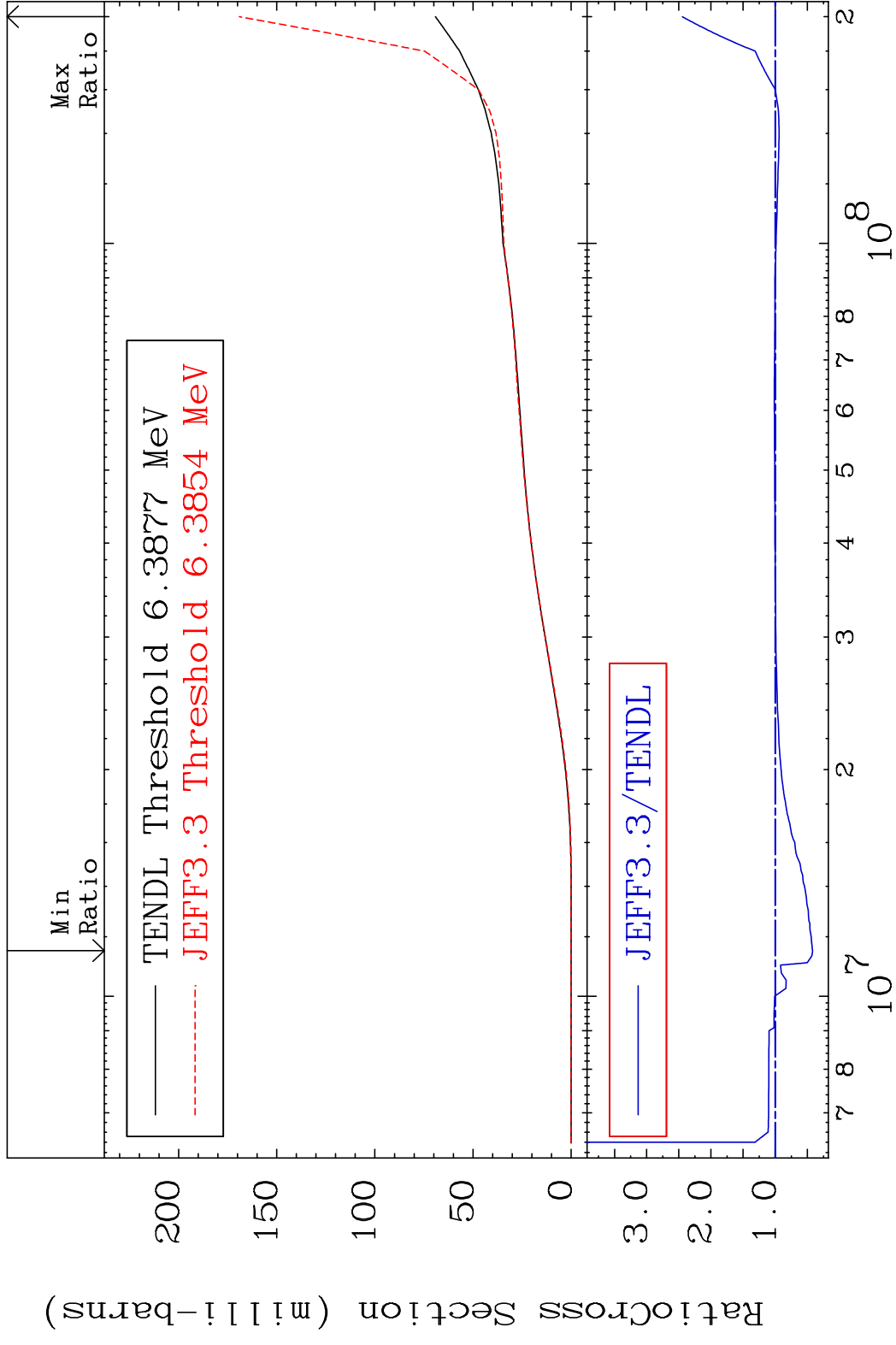
MAT 6419

Tritium Production

64-Gd-150

Cross Section

-57.95 To 144.5 %

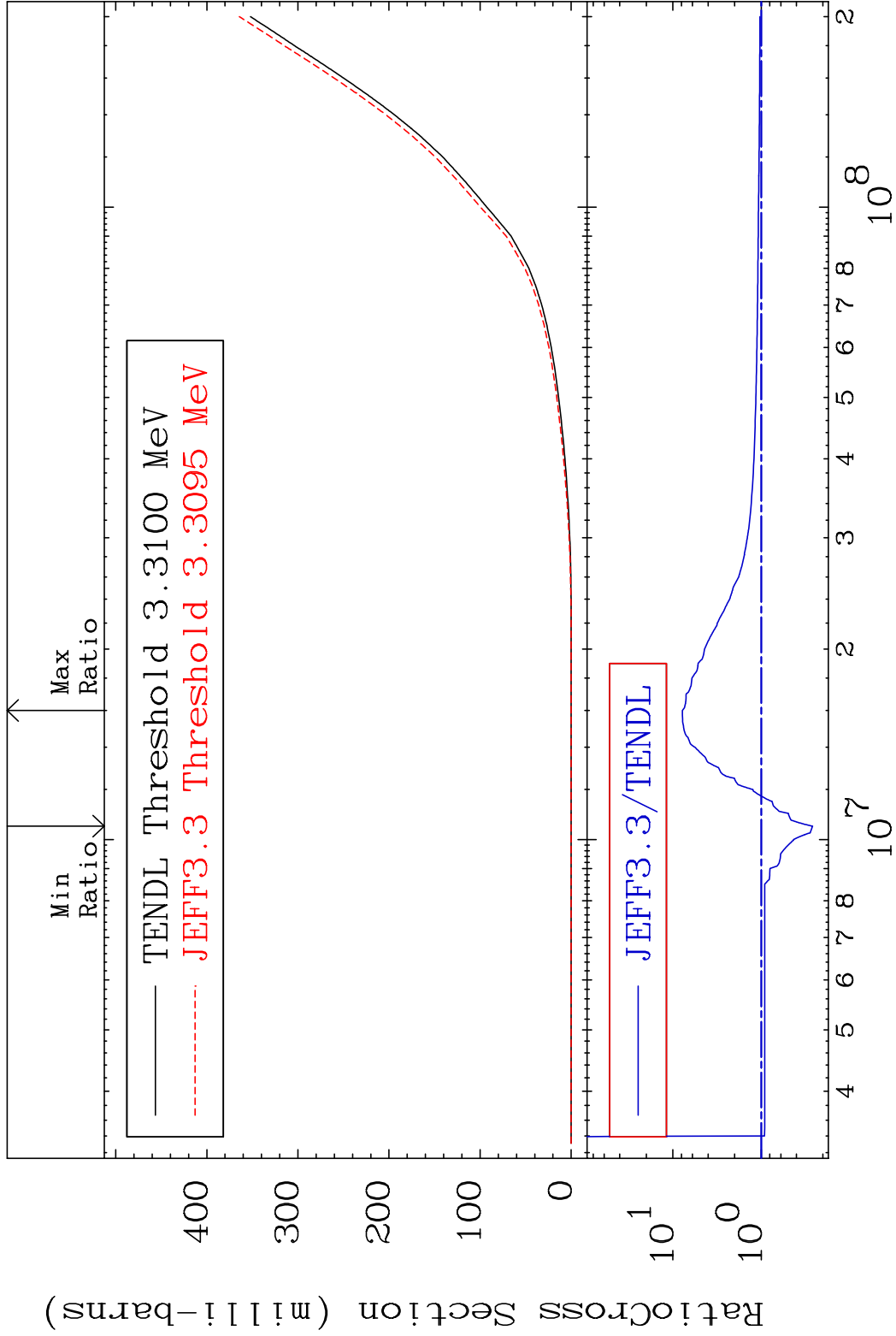


MAT 6419

He-3 Production

64-Gd-150

Cross Section -73.76 To 682.0 %



67

Incident Energy (eV)

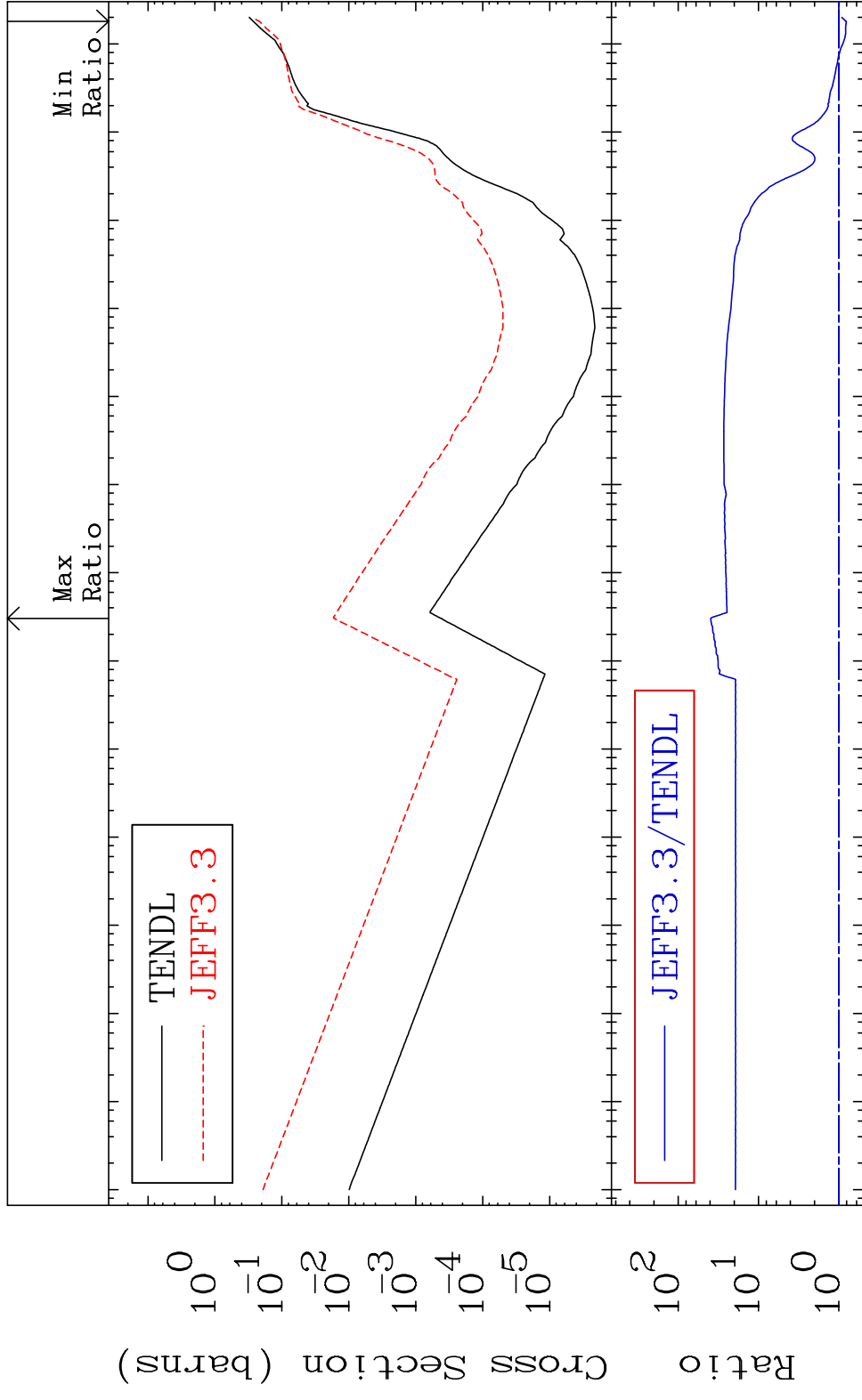
64-Gd-150

MAT 6419

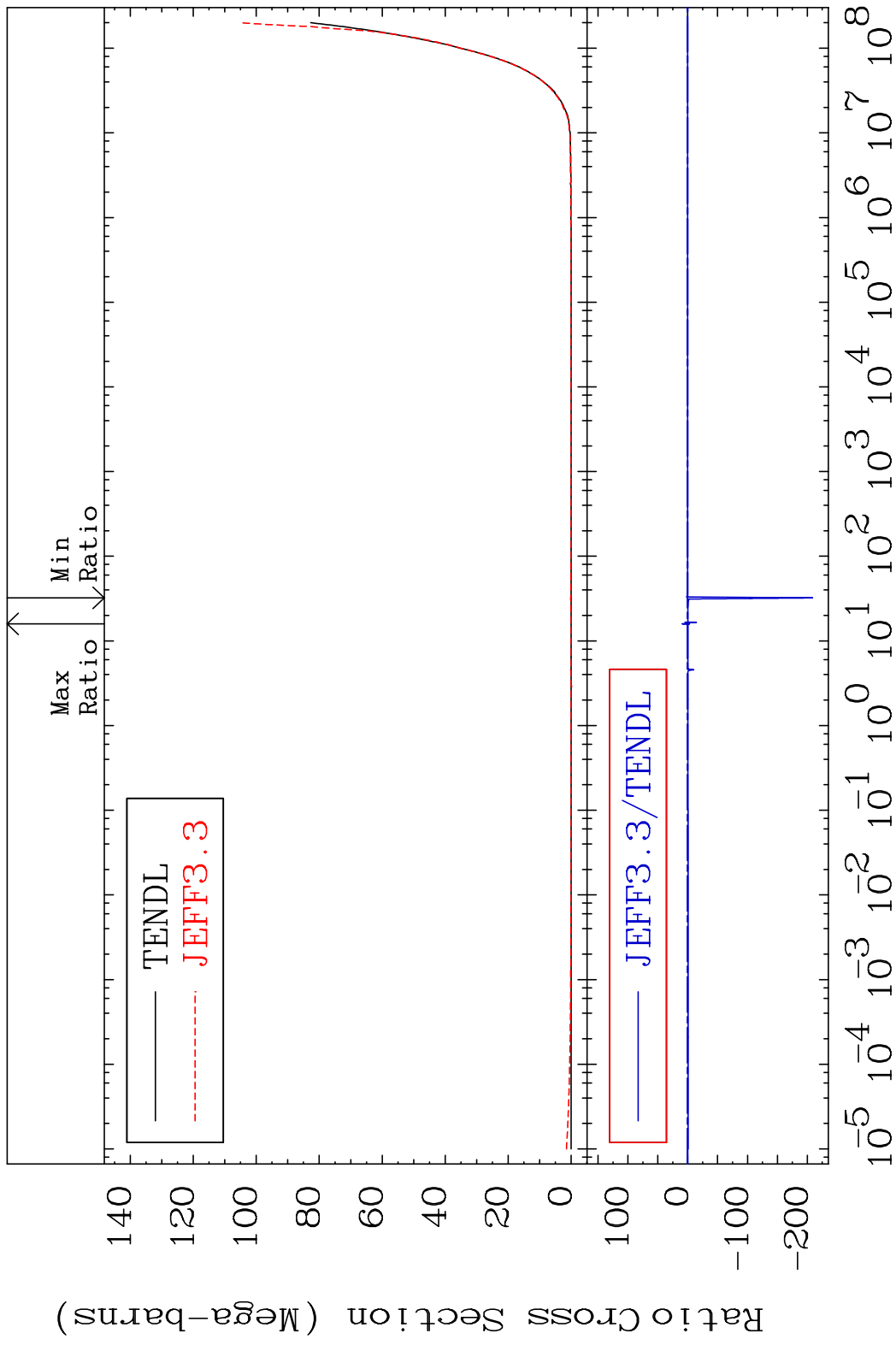
He-4 Production

64-Gd-150

Cross Section -19.45 To 3831. %



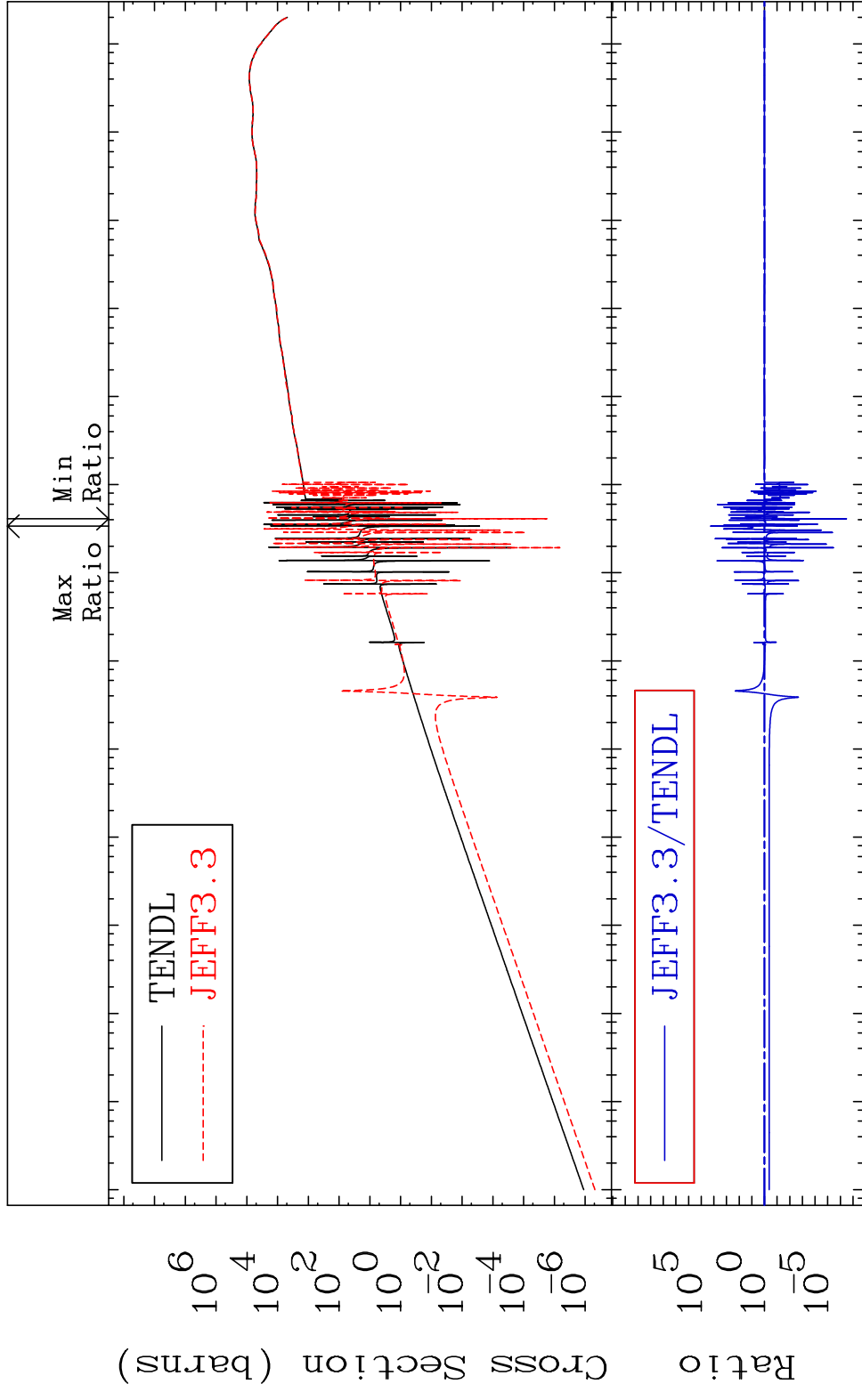
MAT 6419 Kerma total (eV-barns) 64-Gd-150
 Cross Section -9999. To 9999. %



69 Incident Energy (eV) 64-Gd-150

MAT 6419

Kerma elastic
Cross Section -100.0 To 9999. %
64-Gd-150

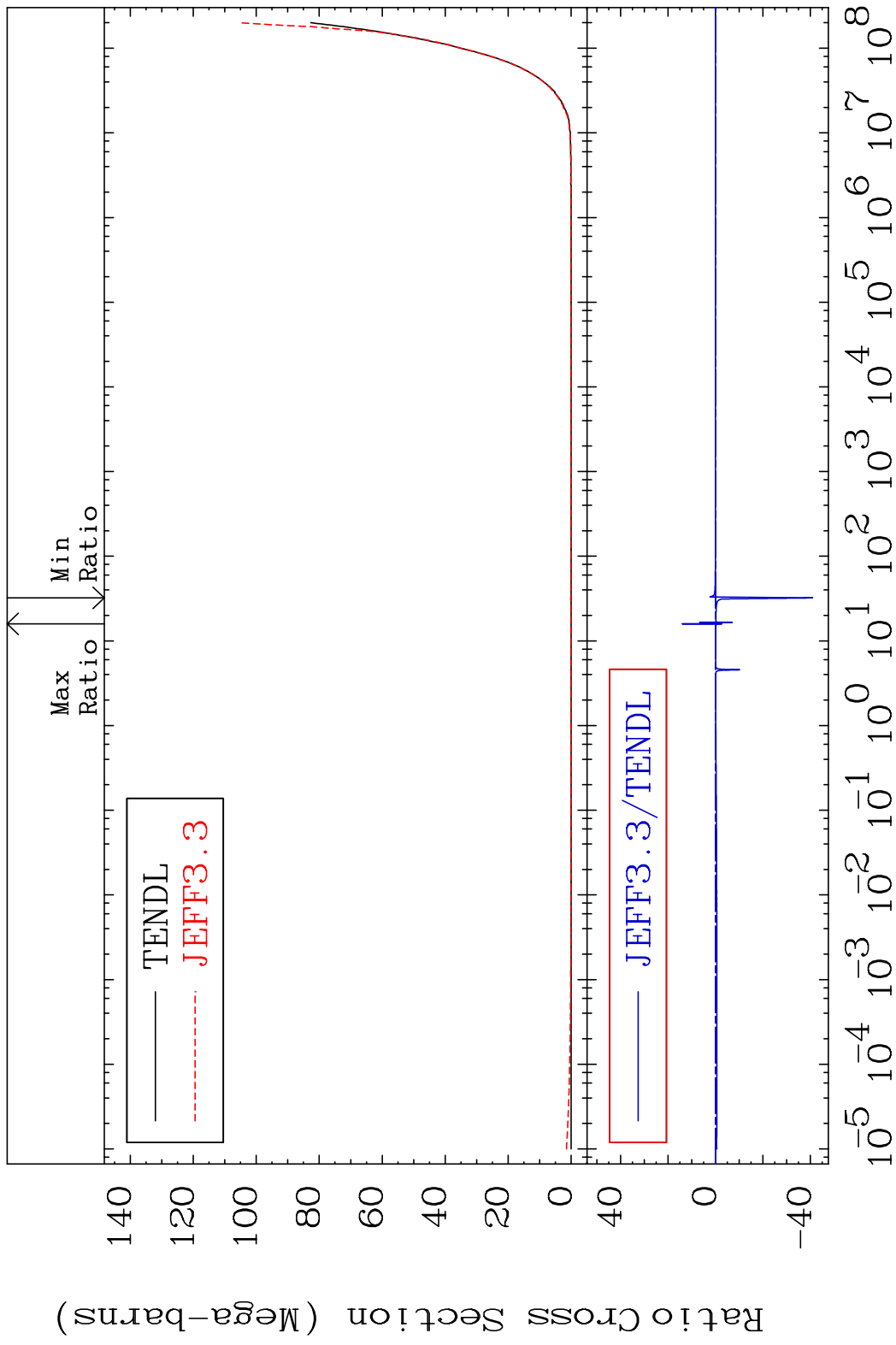


Ratio
10⁵
10⁰
10⁻⁵
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸
Incident Energy (eV)

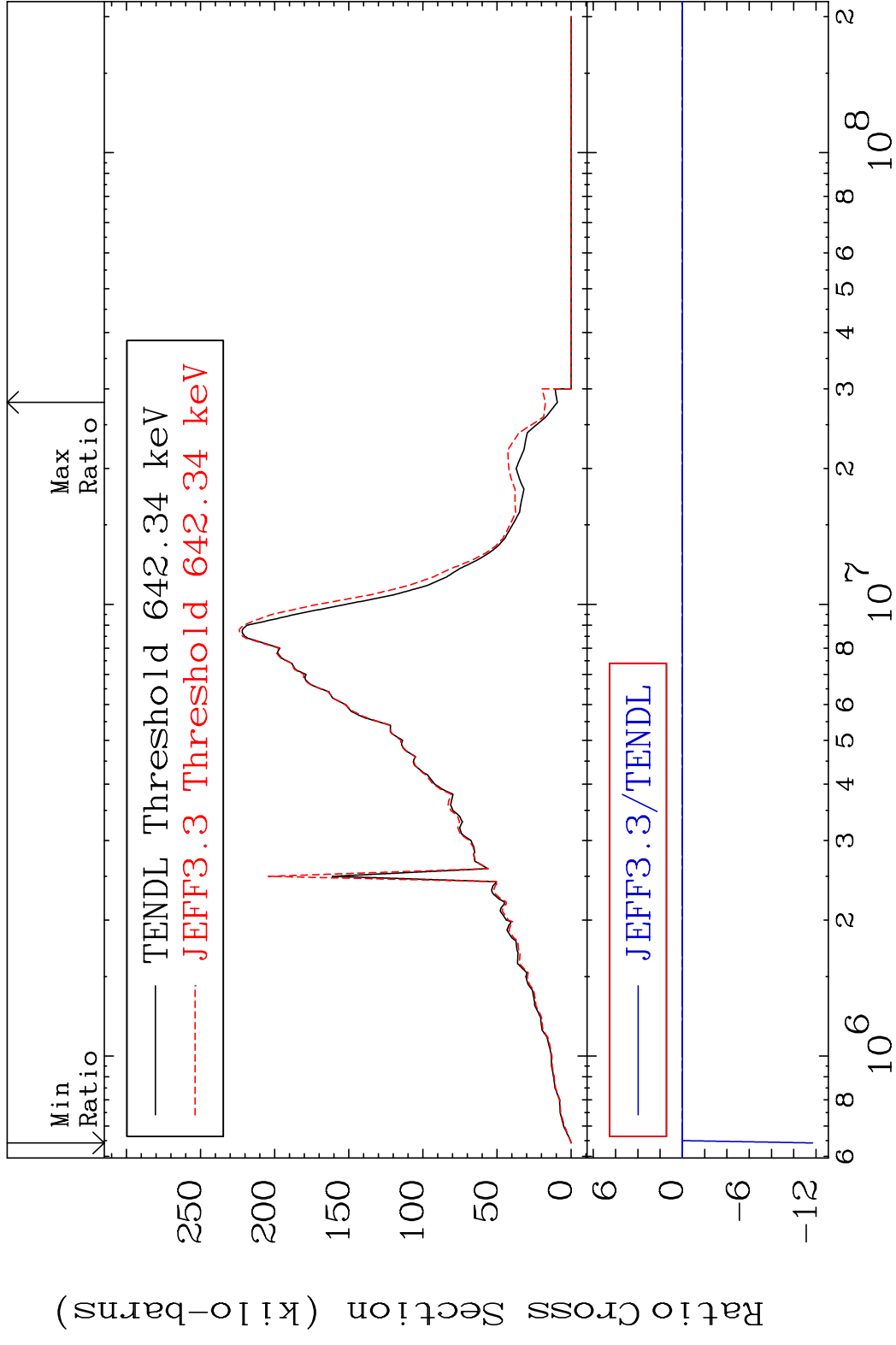
70

64-Gd-150

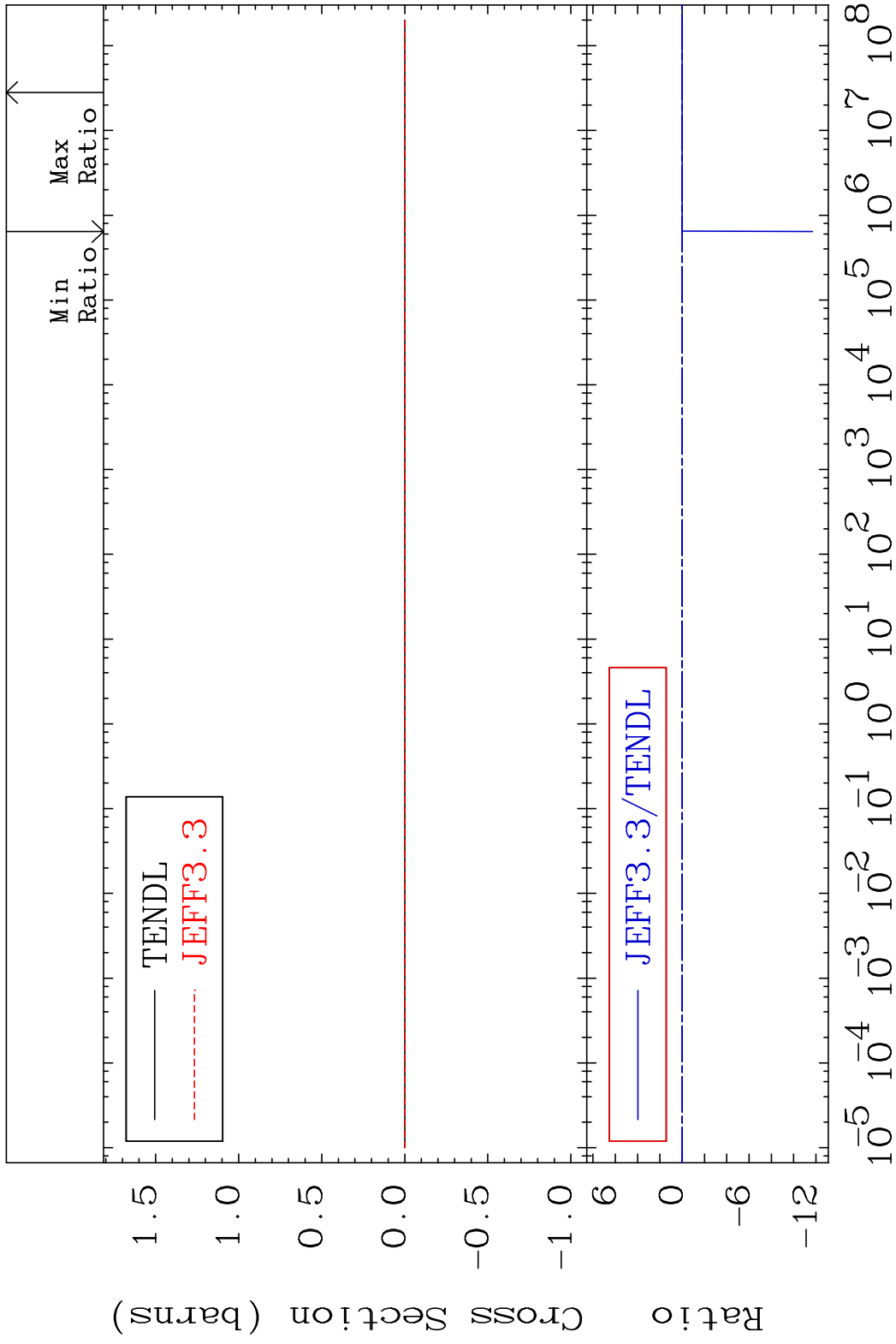
MAT 6419 Kerma non-elastic (all but mt2) 64-Gd-150
 Cross Section -9999. To 9999. %



MAT 6419 Kerma inelastic (mt51-91) 64-Gd-150
 Cross Section -9999. To 85.19 %

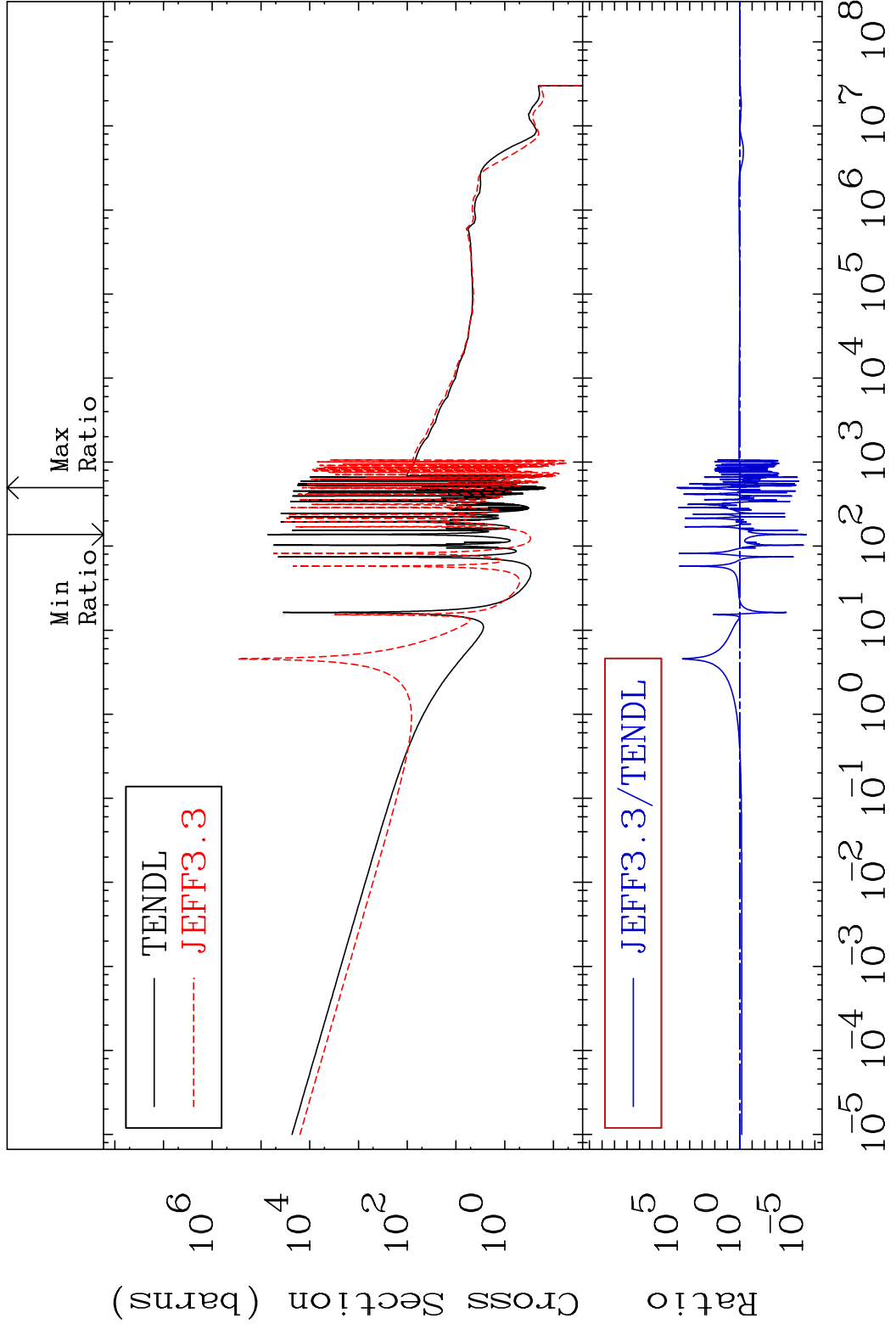


MAT 6419 Kerma fission (mt18 or mt19-20-21-38) 64-Gd-150
 Cross Section -9999. To 85.19 %



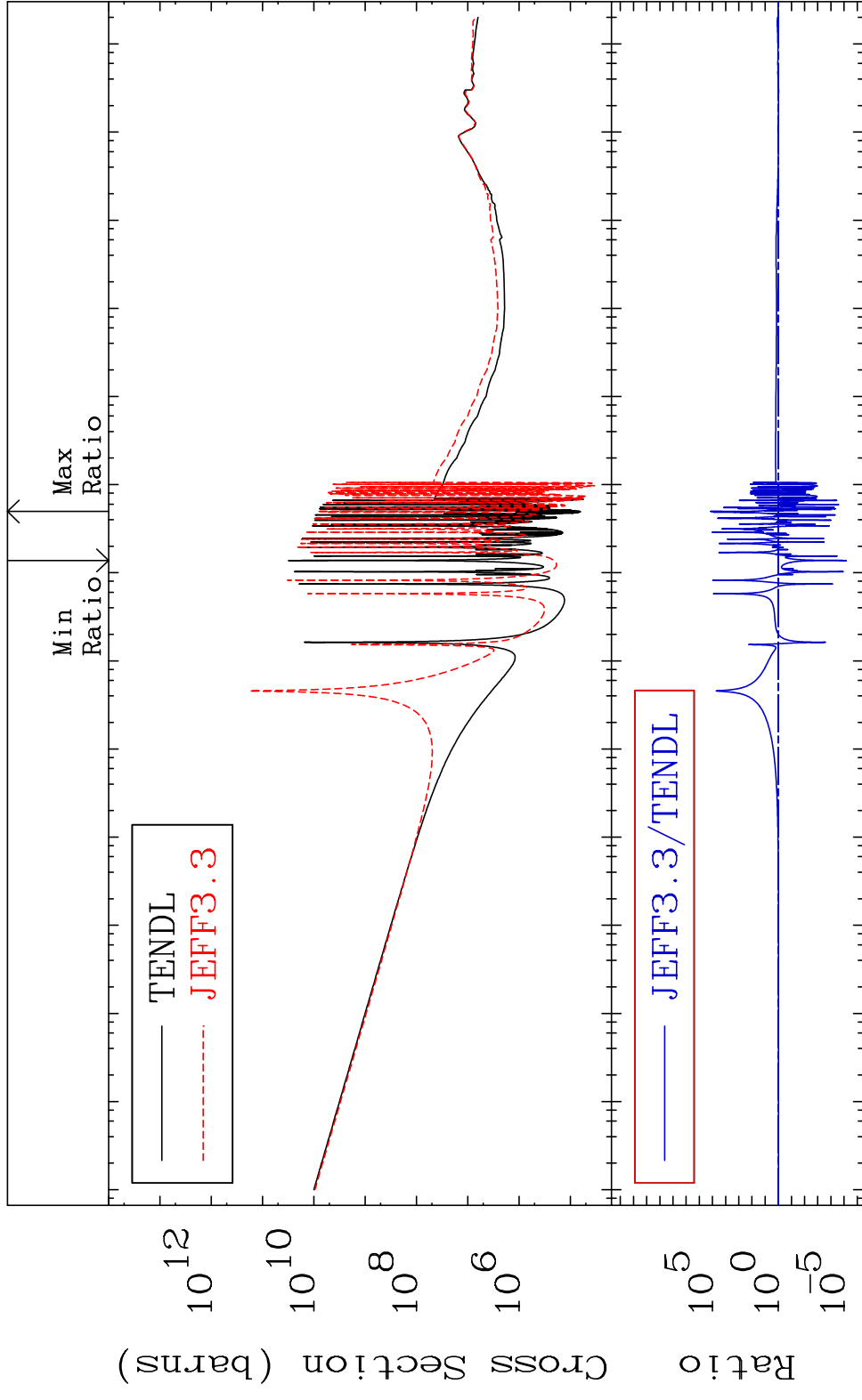
MAT 6419

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



MAT 6419

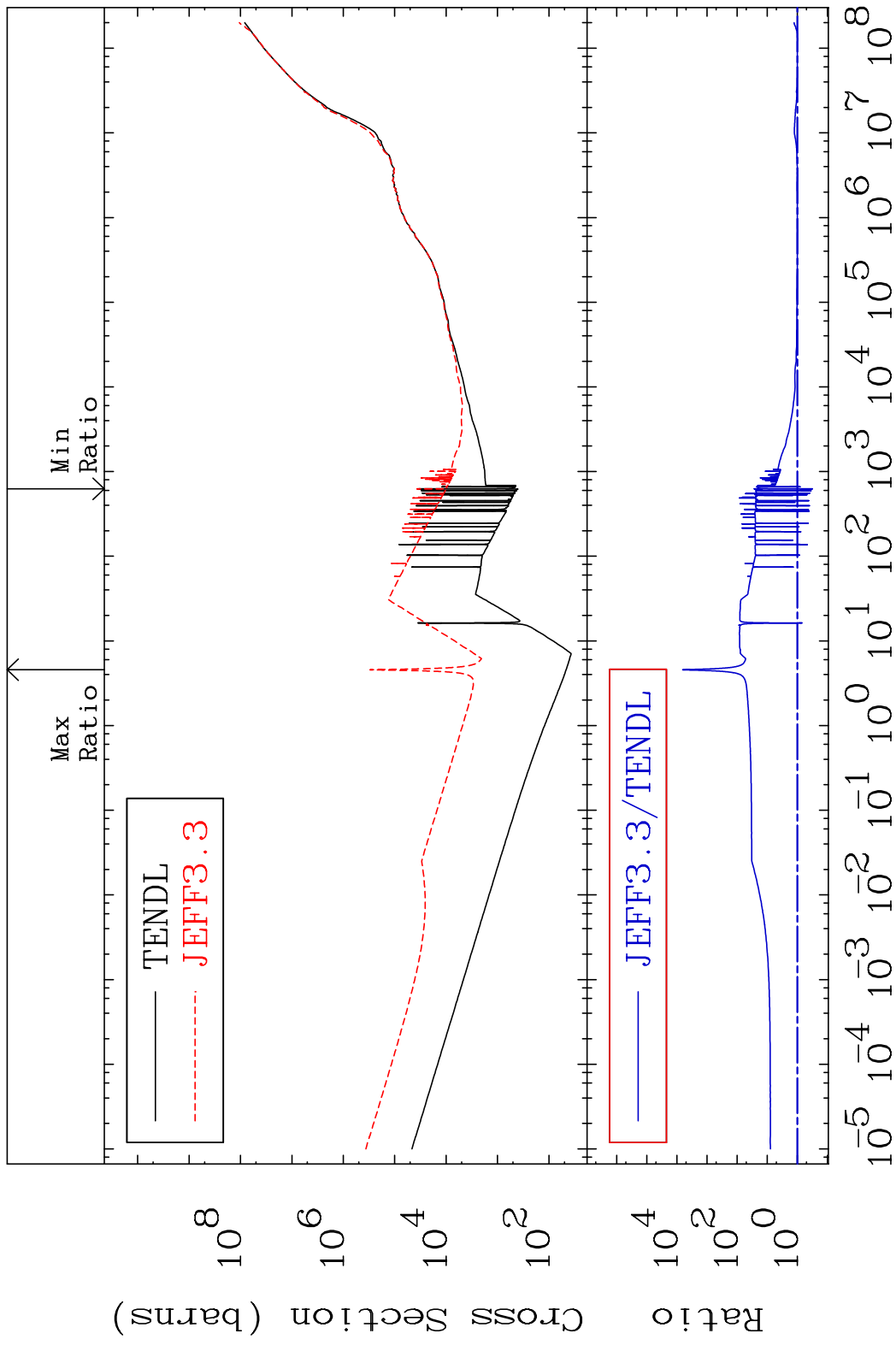
Total photon (eV-barns) 64-Gd-150
Cross Section -100.0 To 9999. %



75

Incident Energy (eV) 64-Gd-150

MAT 6419 Total kinematic kerma (high limit) 64-Gd-150
 Cross Section -68.87 To 9999. %

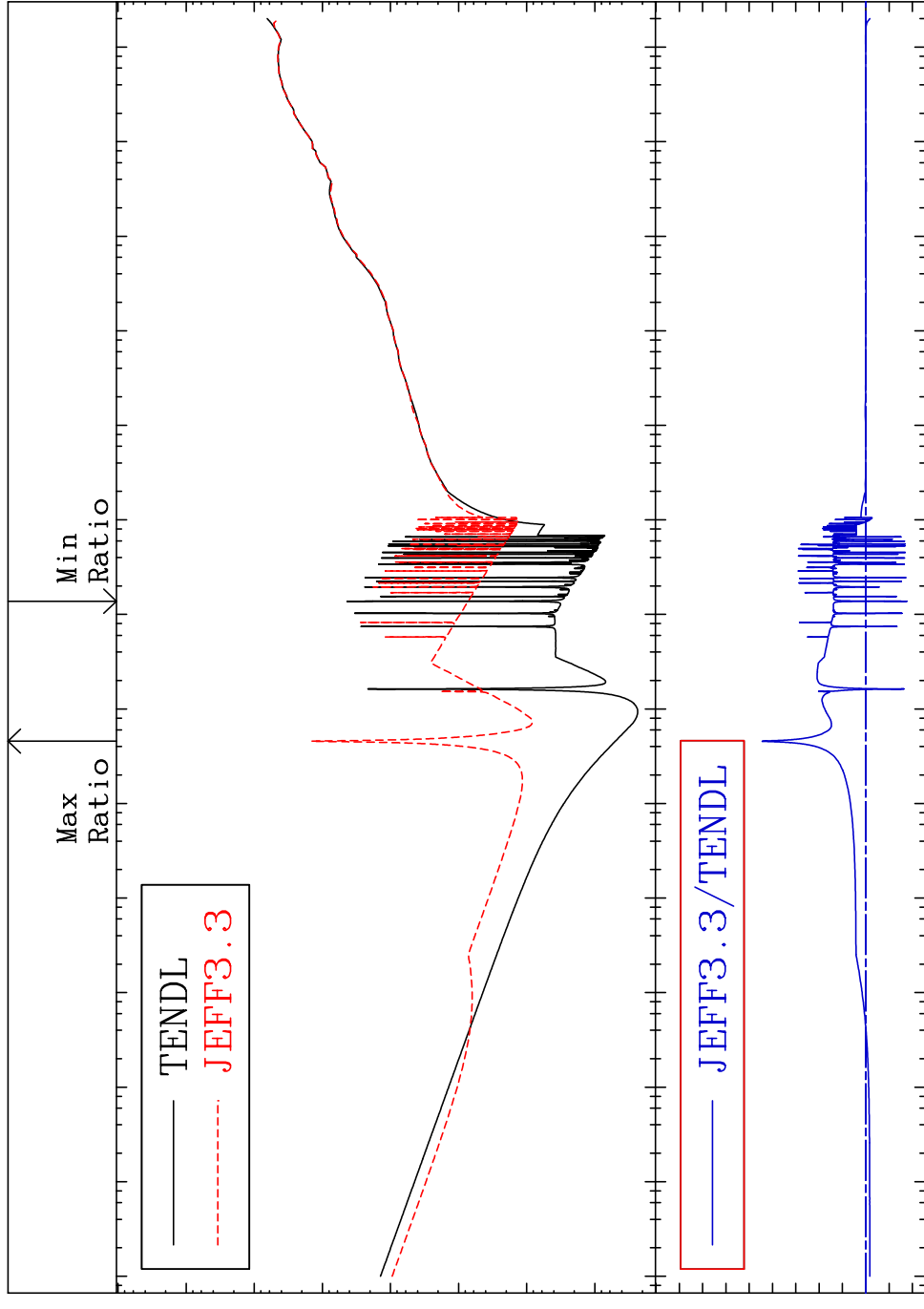


MAT 6419

Dpa total (eV-barns)

64-Gd-150

Cross Section -98.33 To 9999. %



77

Incident Energy (eV)

64-Gd-150

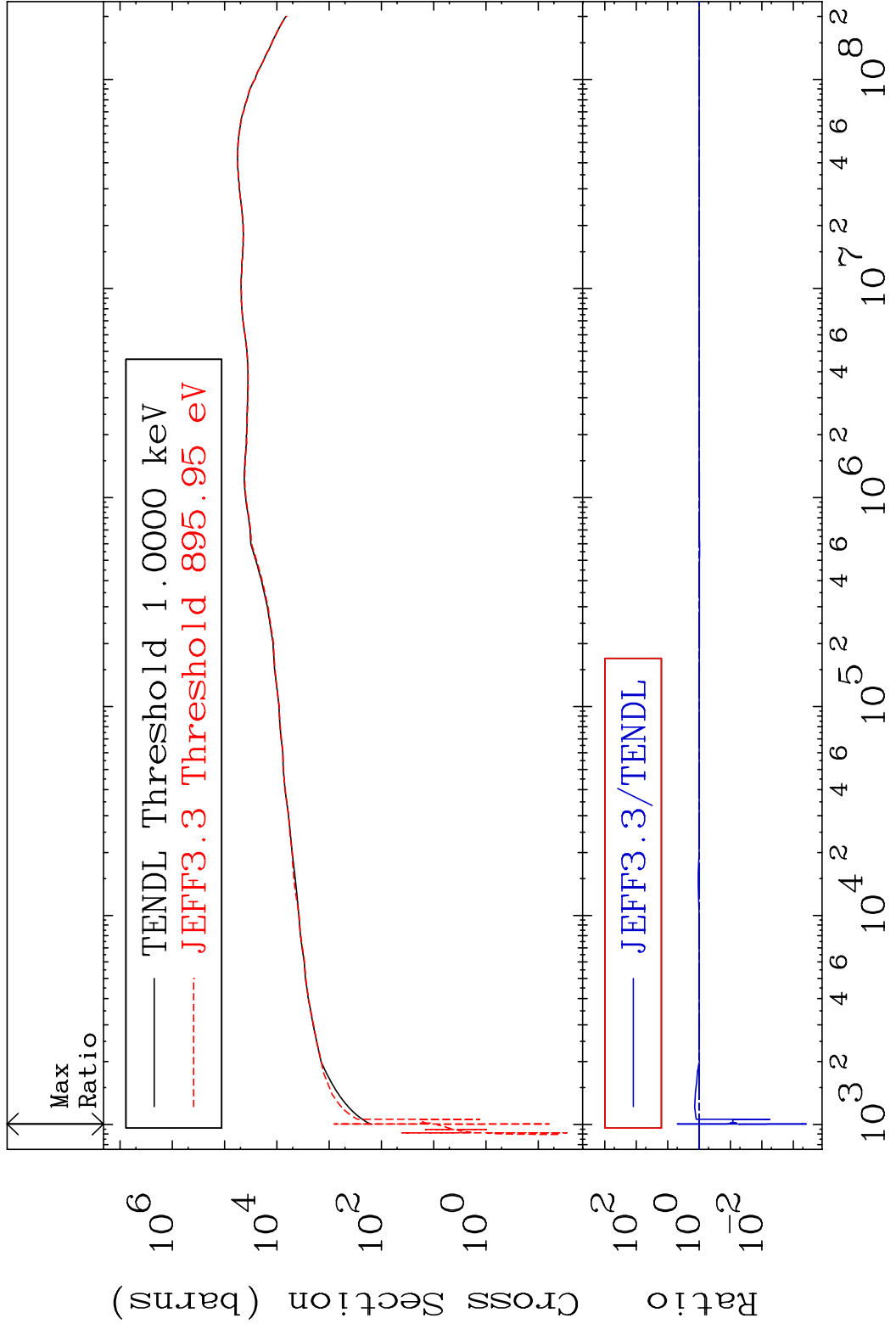
MAT 6419

Dpa elastic (mt2)

64-Gd-150

Cross Section

-99.96 To 397.3 %



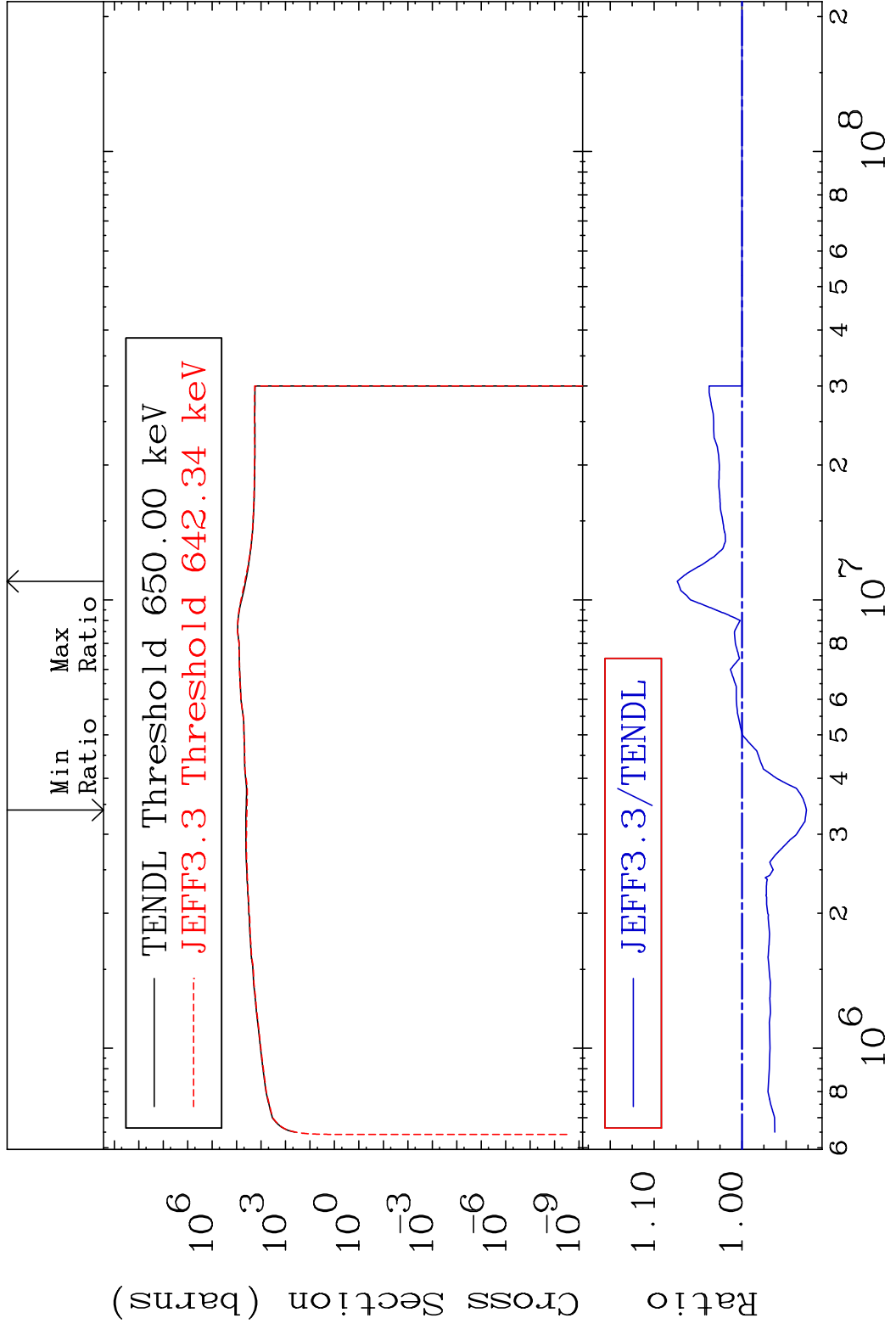
78

Incident Energy (eV)

64-Gd-150

MAT 6419

Dpa inelastic (mt51-91) 64-Gd-150
Cross Section -7.321 To 7.376 %

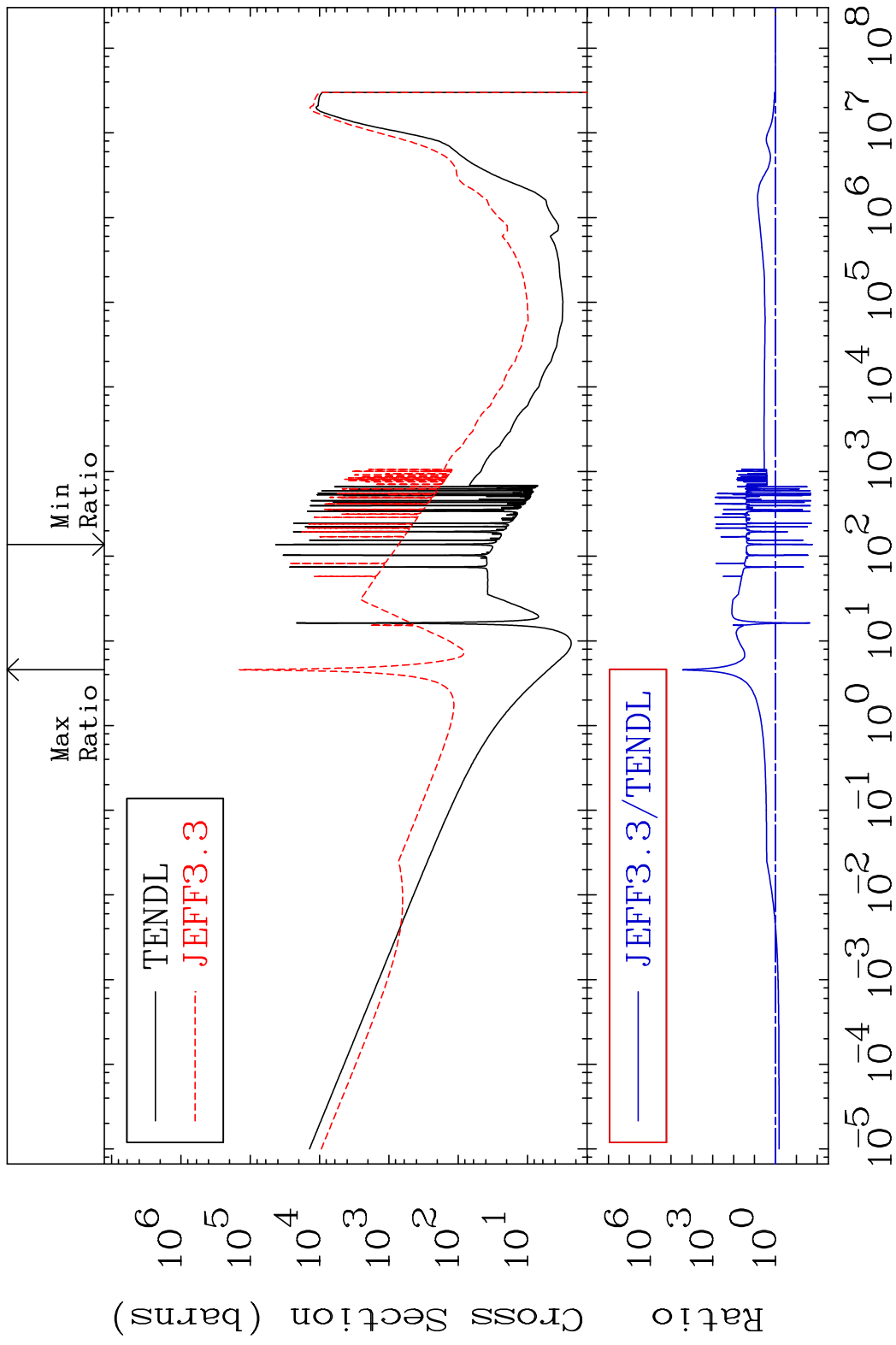


79

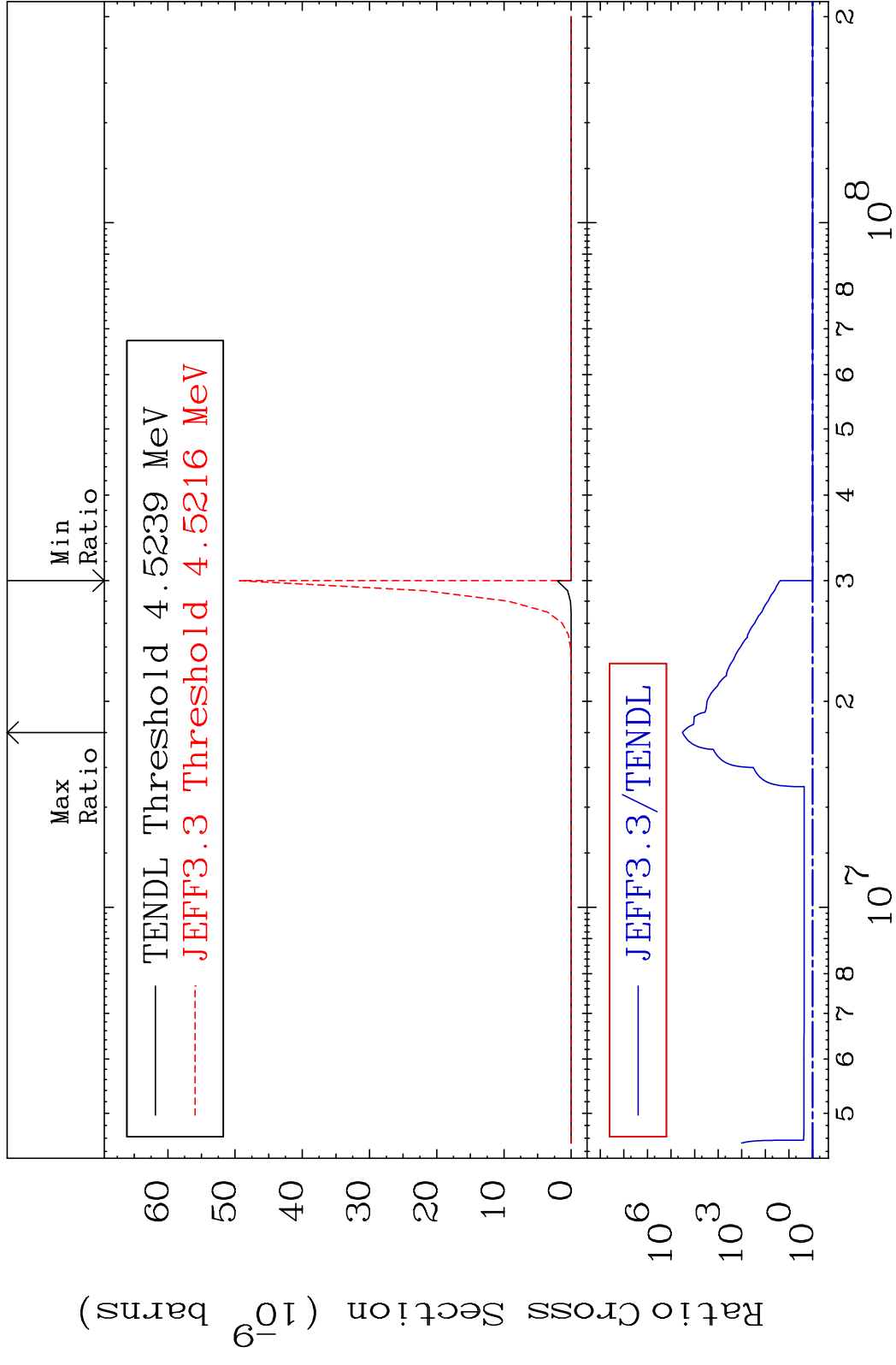
Incident Energy (eV)

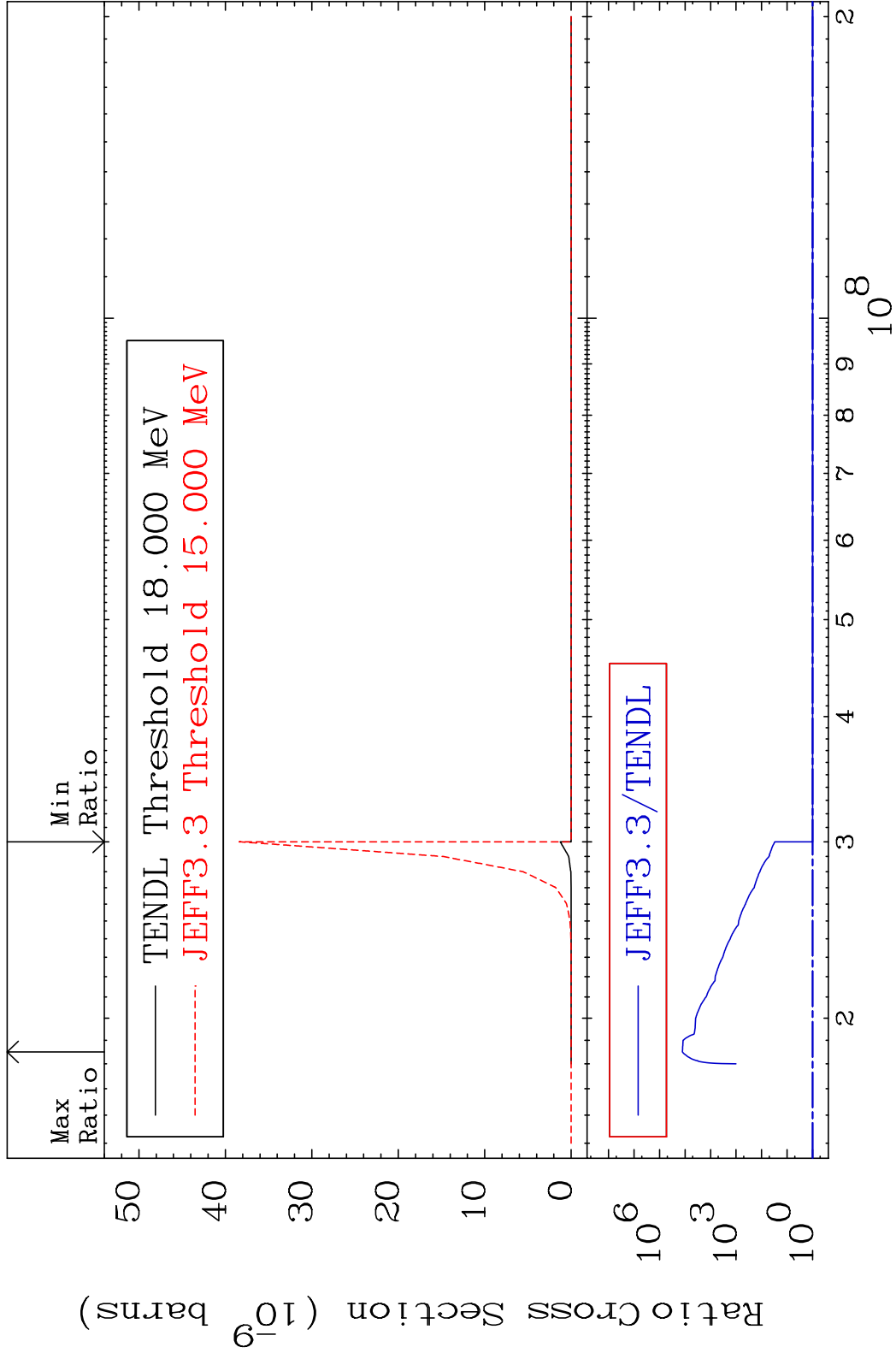
64-Gd-150

MAT 6419 Dpa disappearance (mt102 -120) 64-Gd-150
 Cross Section -98.33 To 9999. %

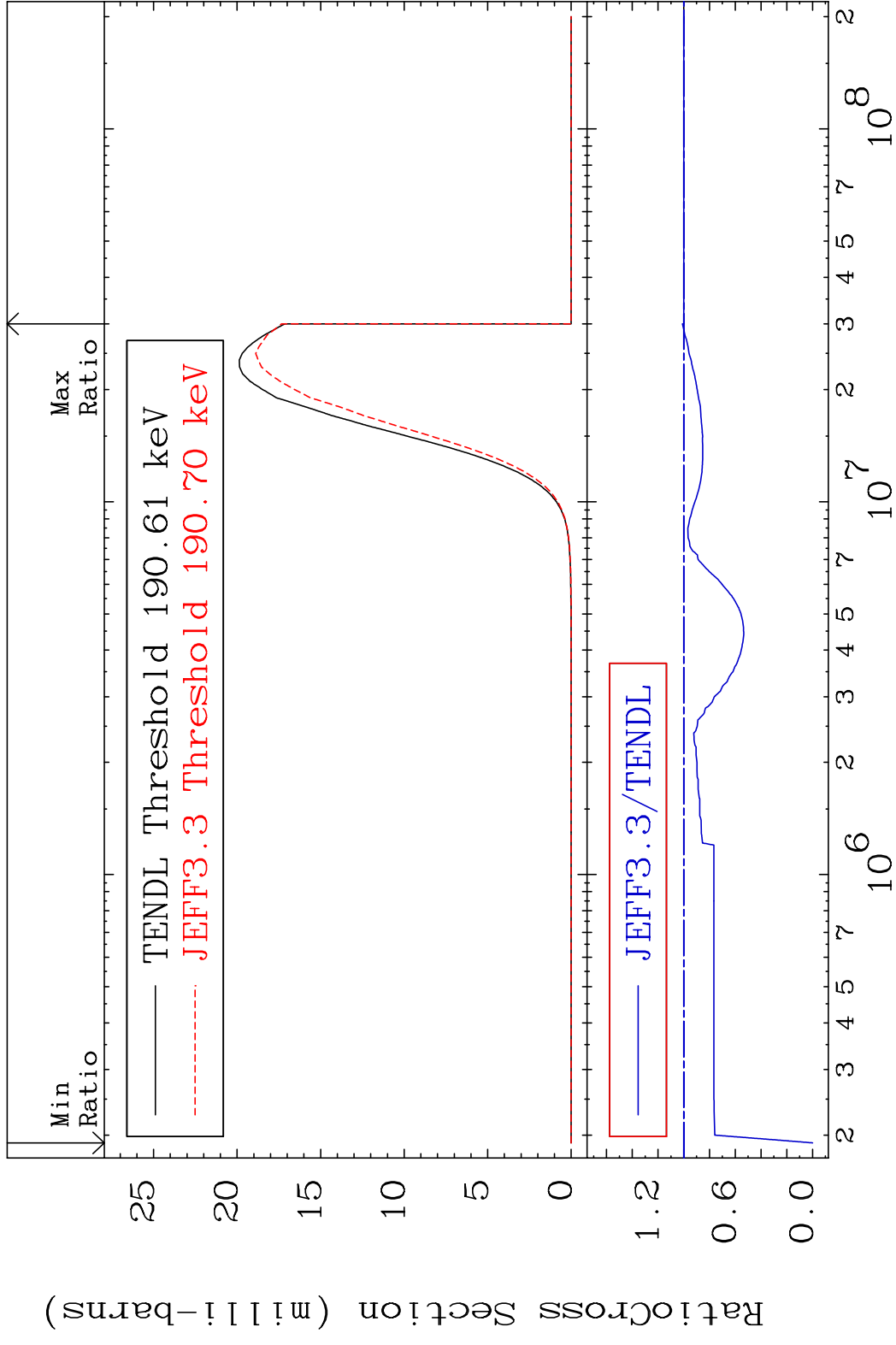


80 64-Gd-150





MAT 6419 (n,p):63-Eu-150g 64-Gd-150
 Radionuclide Production Cross Section Ratio 1.091 %



MAT 6419 (n, p) : 63-Eu-150m1 64-Gd-150
 Radionuclide Production Cross Section Ratio 0.823 %

