

Program Complot
(Version 2021-1)

by

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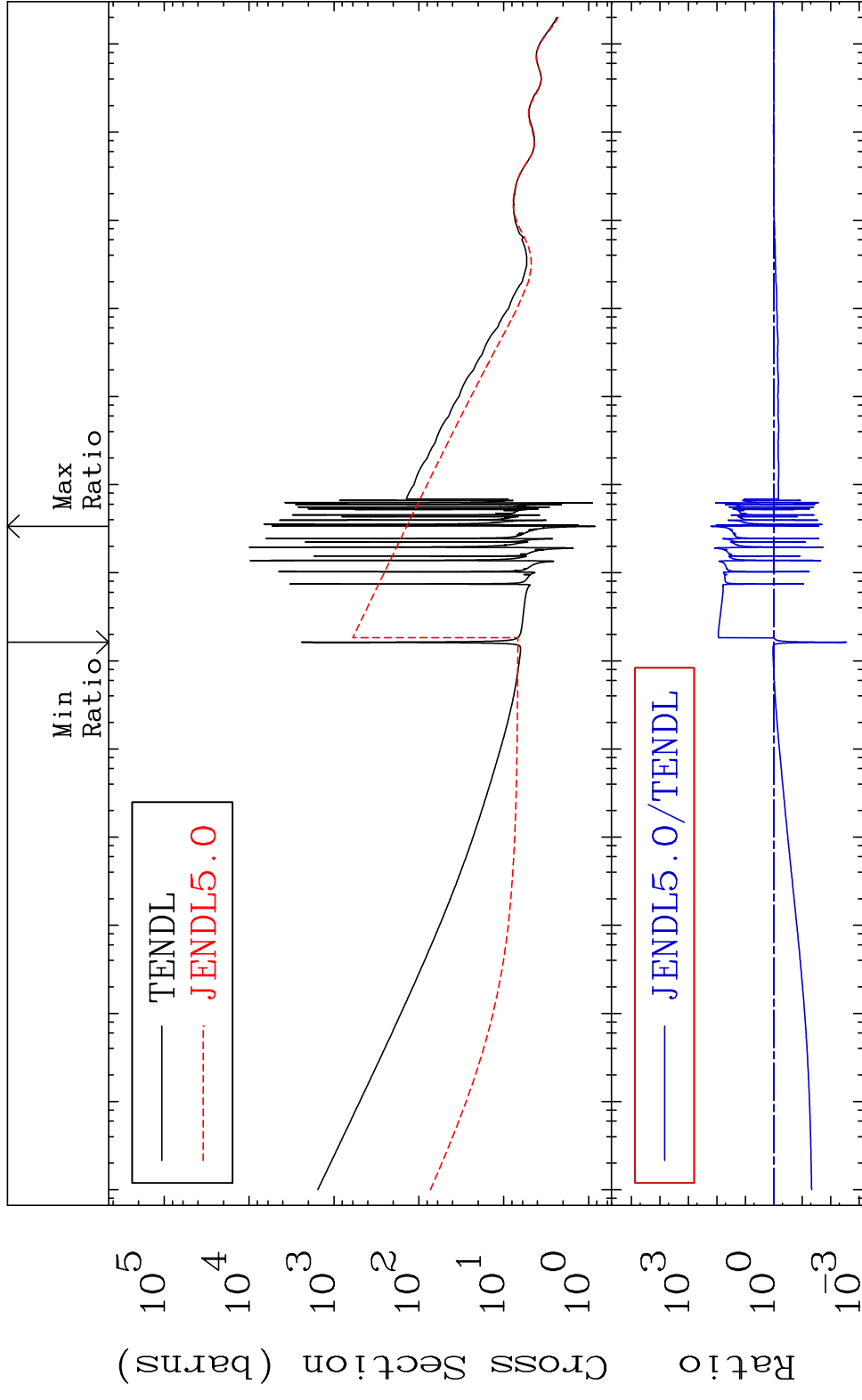
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6419

Total
Cross Section -99.72 To 9999. %

64-Gd-150



1

Incident Energy (eV)

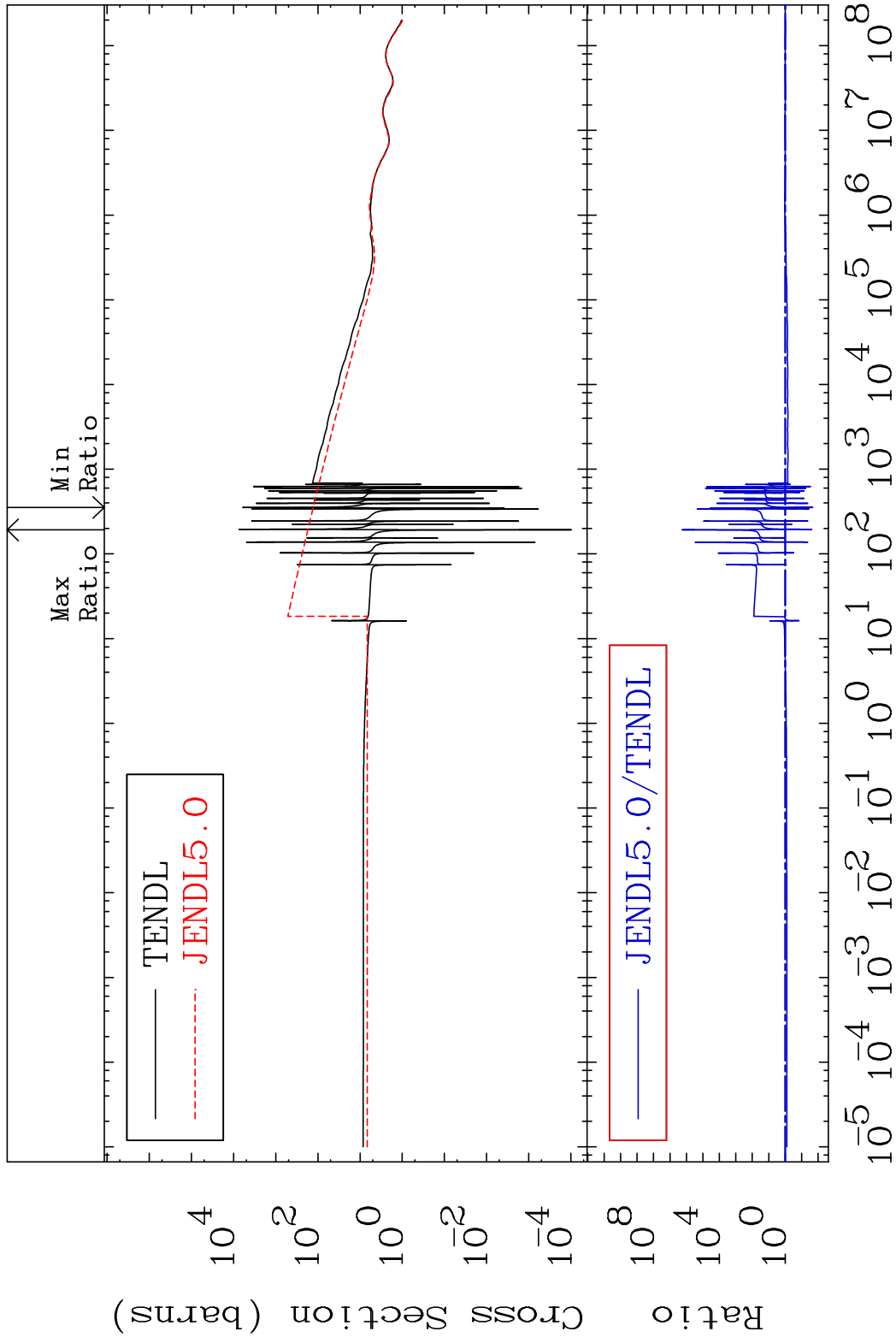
64-Gd-150

MAT 6419

Elastic

64-Gd-150

Cross Section -97.83 To 9999. %

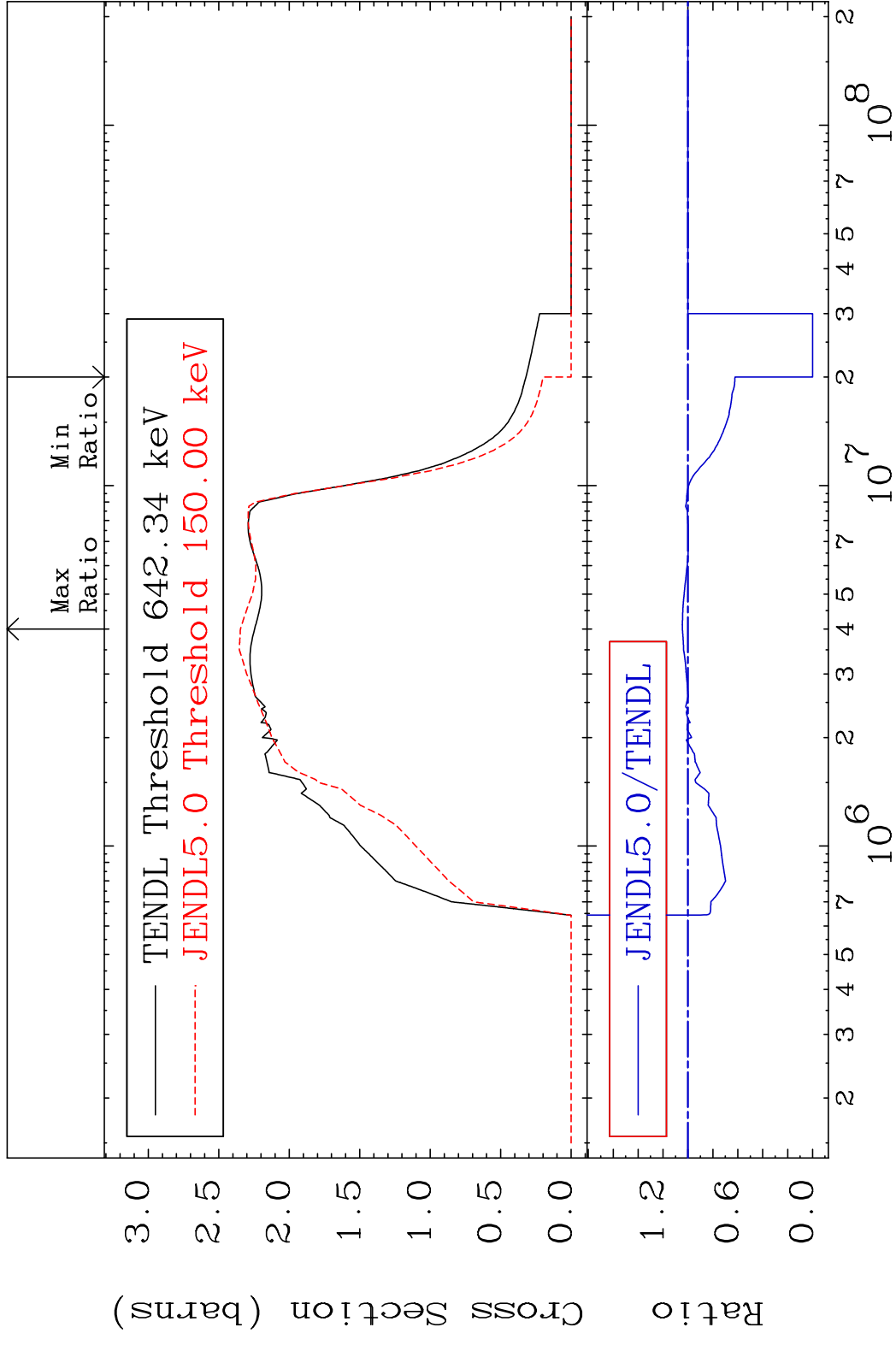


2

Incident Energy (eV)

64-Gd-150

MAT 6419 Inelastic Cross Section -100.0 To 4.492 % 64-Gd-150

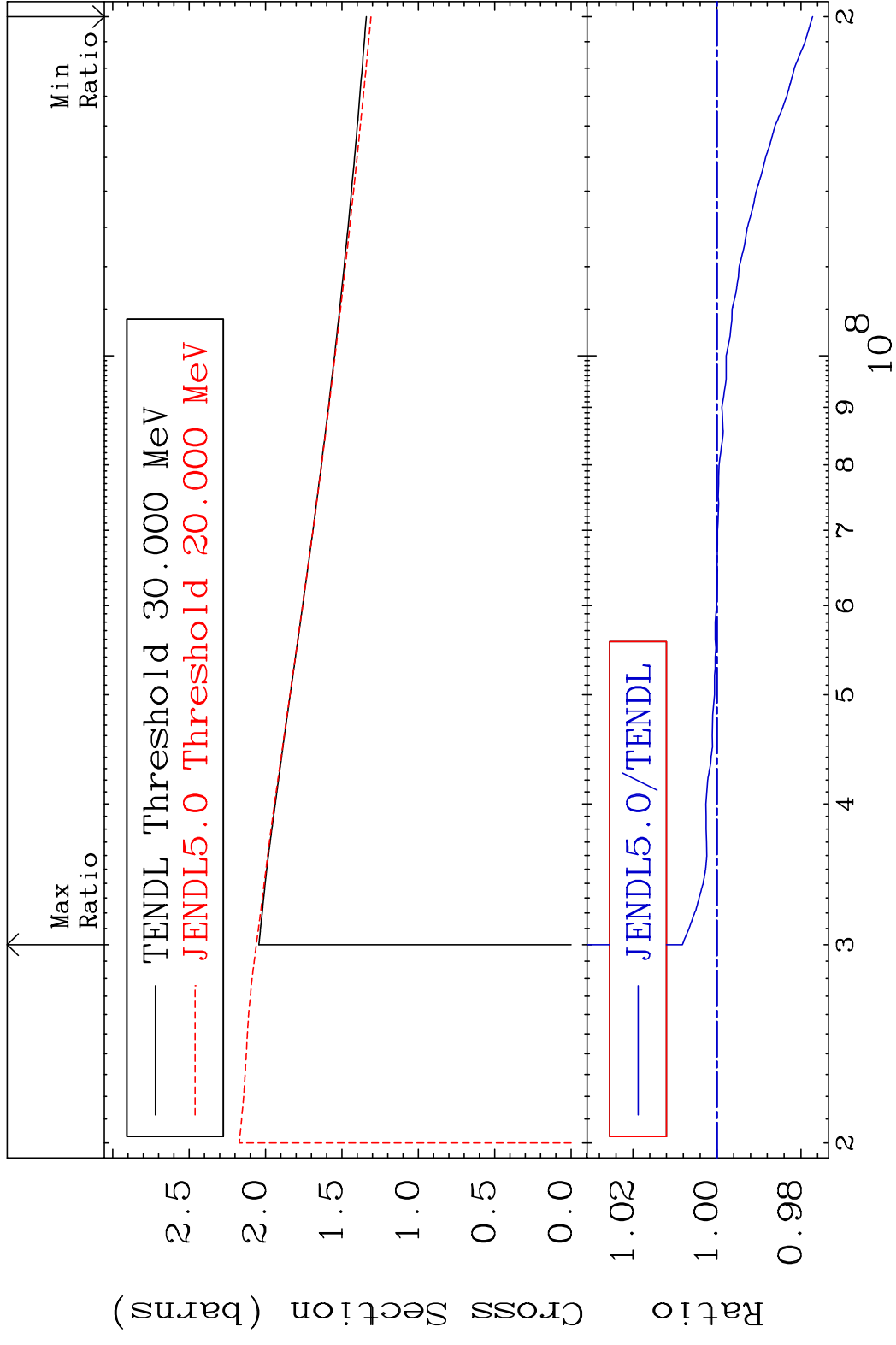


MAT 6419

(n, remainder)

64-Gd-150

Cross Section -2.277 To 0.823 %



4

Incident Energy (eV)

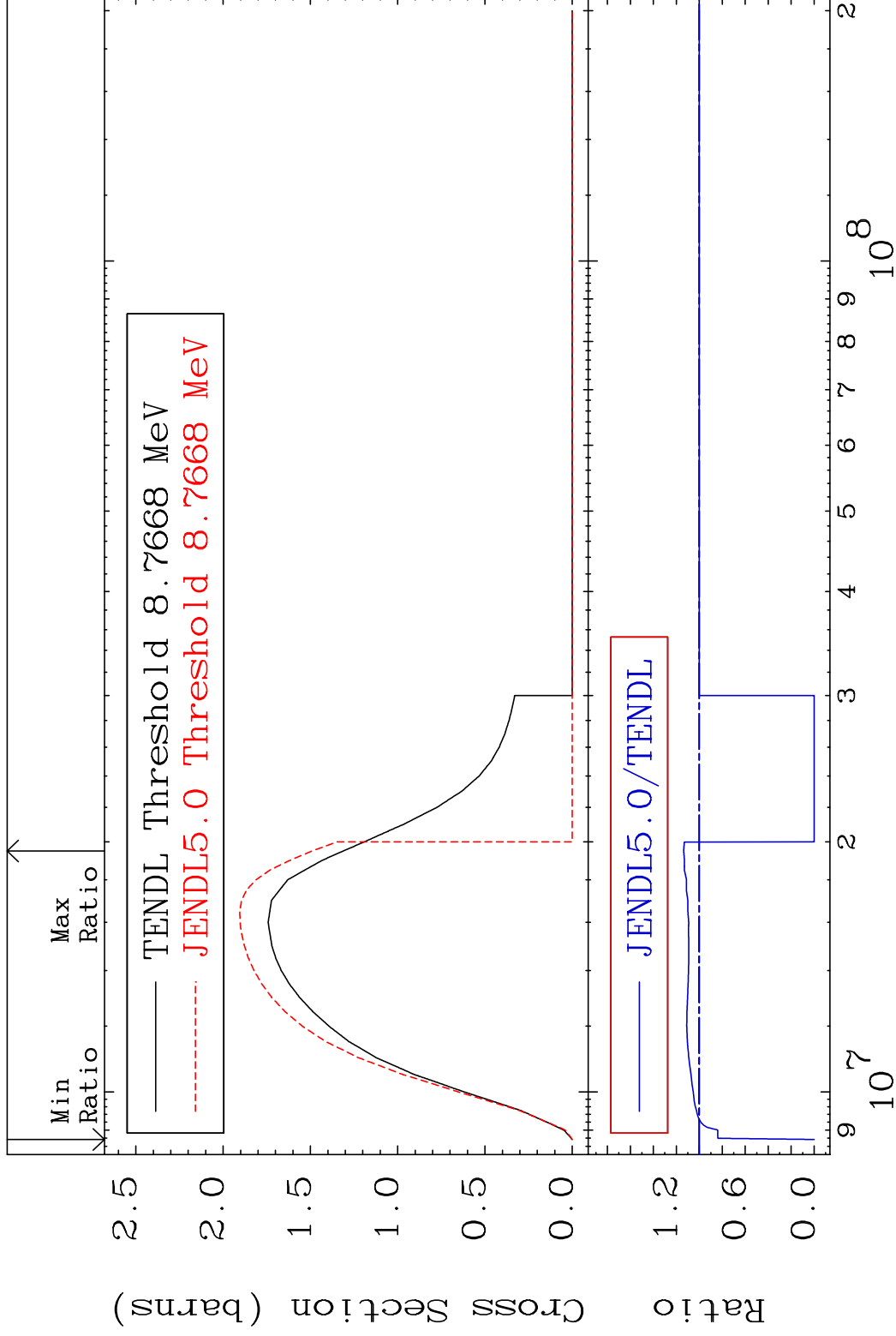
64-Gd-150

MAT 6419

(n,2n)

64-Gd-150

Cross Section -100.0 To 13.61 %

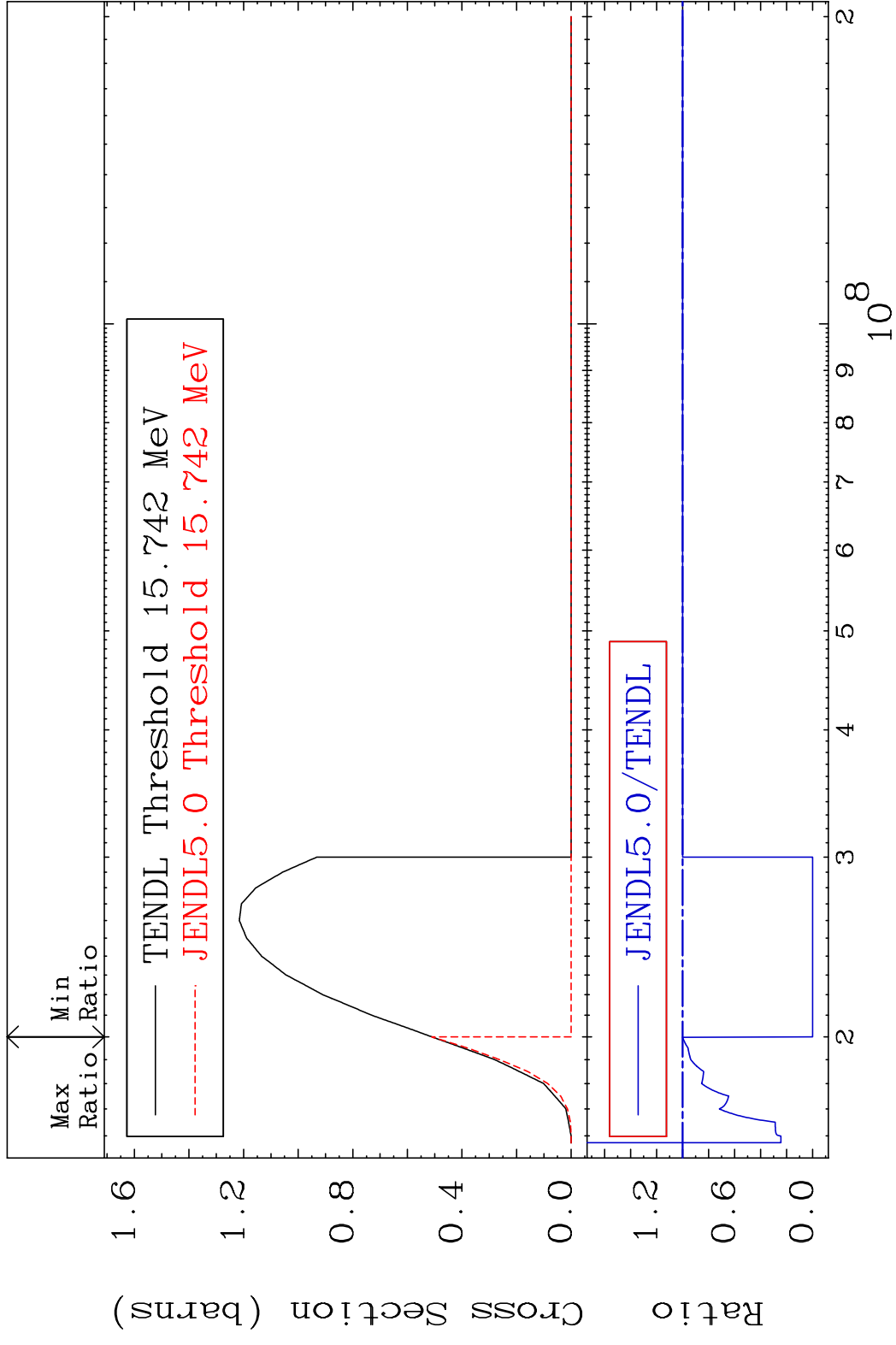


5

Incident Energy (eV)

64-Gd-150

MAT 6419 (n,3n) 64-Gd-150
 Cross Section -100.0 To 0.142 %

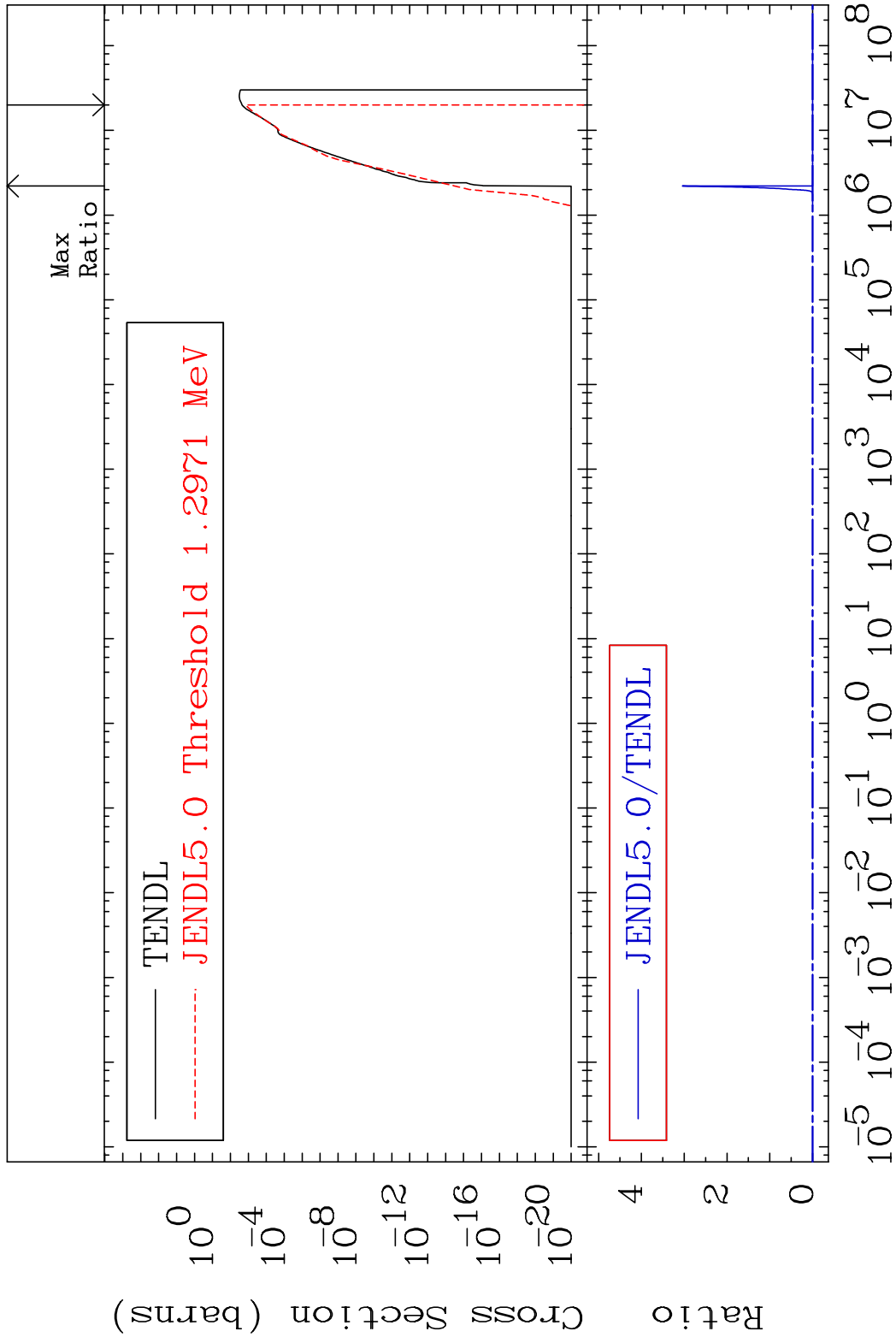


MAT 6419

(n, n') α

64-Gd-150

Cross Section -100.0 To 9999. %

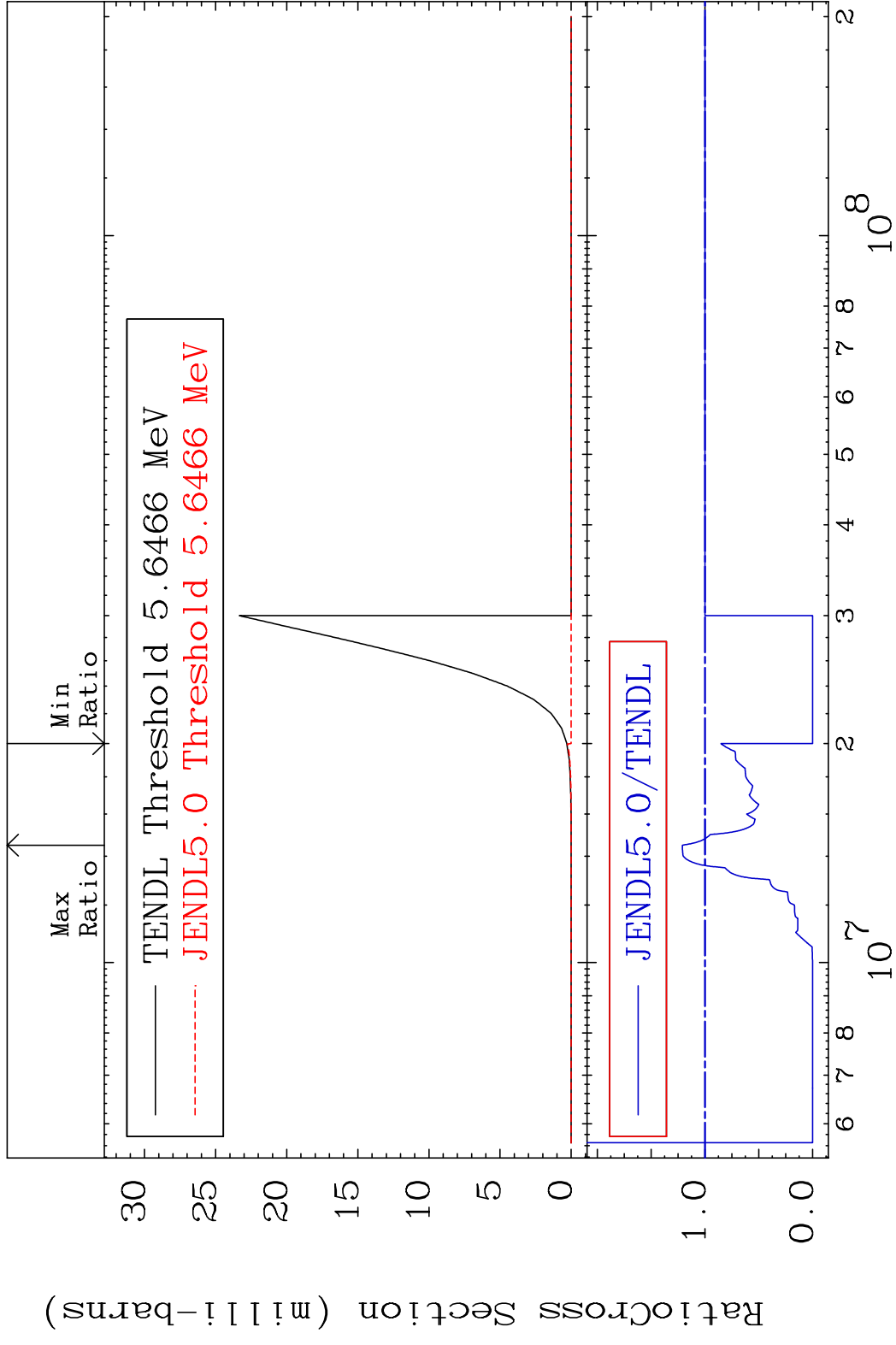


7

Incident Energy (eV)

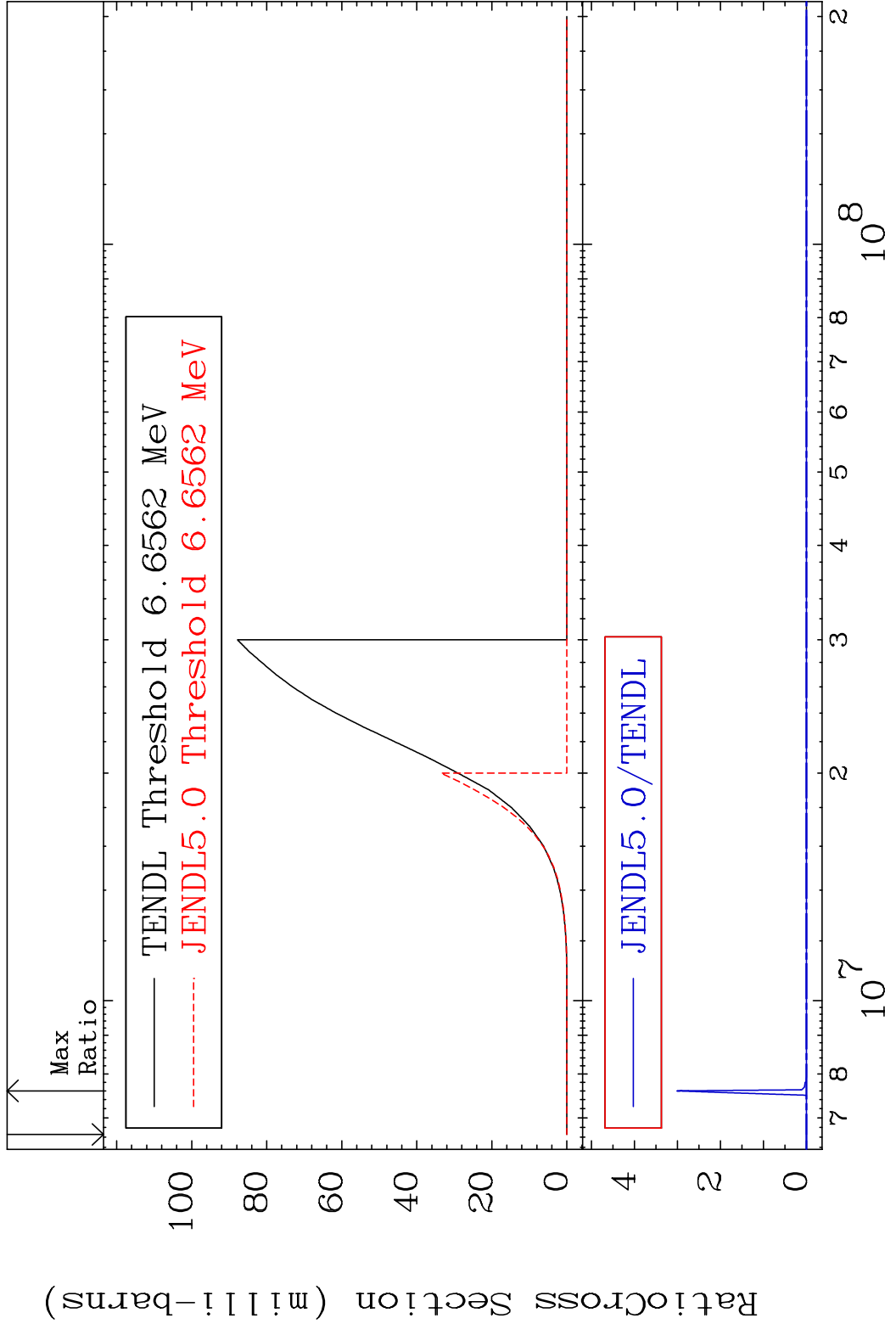
64-Gd-150

MAT 6419 (n,2n) α 64-Gd-150
 Cross Section -100.0 To 20.99 %



8 Incident Energy (eV) 64-Gd-150

MAT 6419 (n, n') p 64-Gd-150
 Cross Section -100.0 To 9999. %



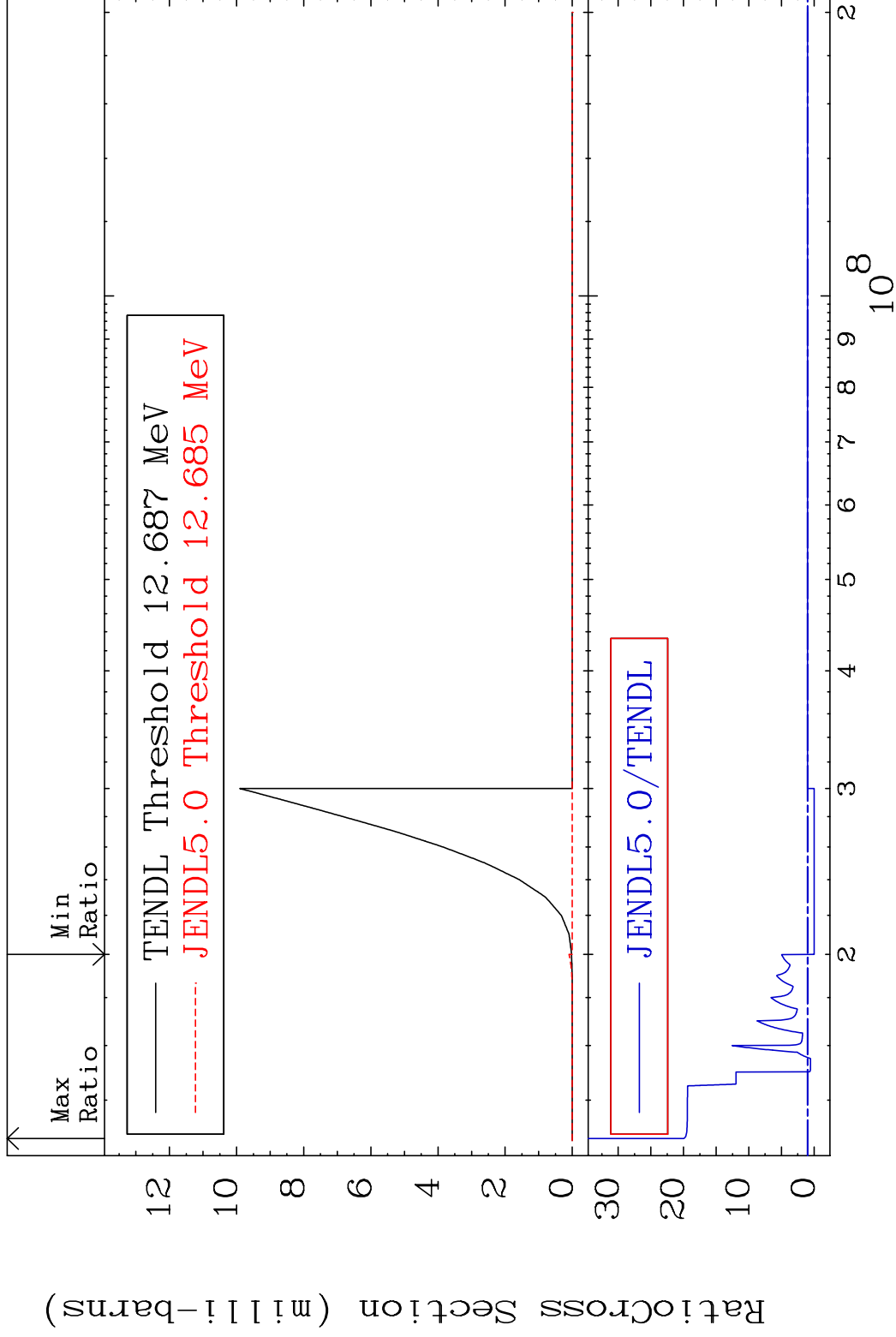
9 9 Incident Energy (eV) 64-Gd-150

MAT 6419

(n, n') d

64-Gd-150

Cross Section -100.0 To 1898. %



10

Incident Energy (eV)

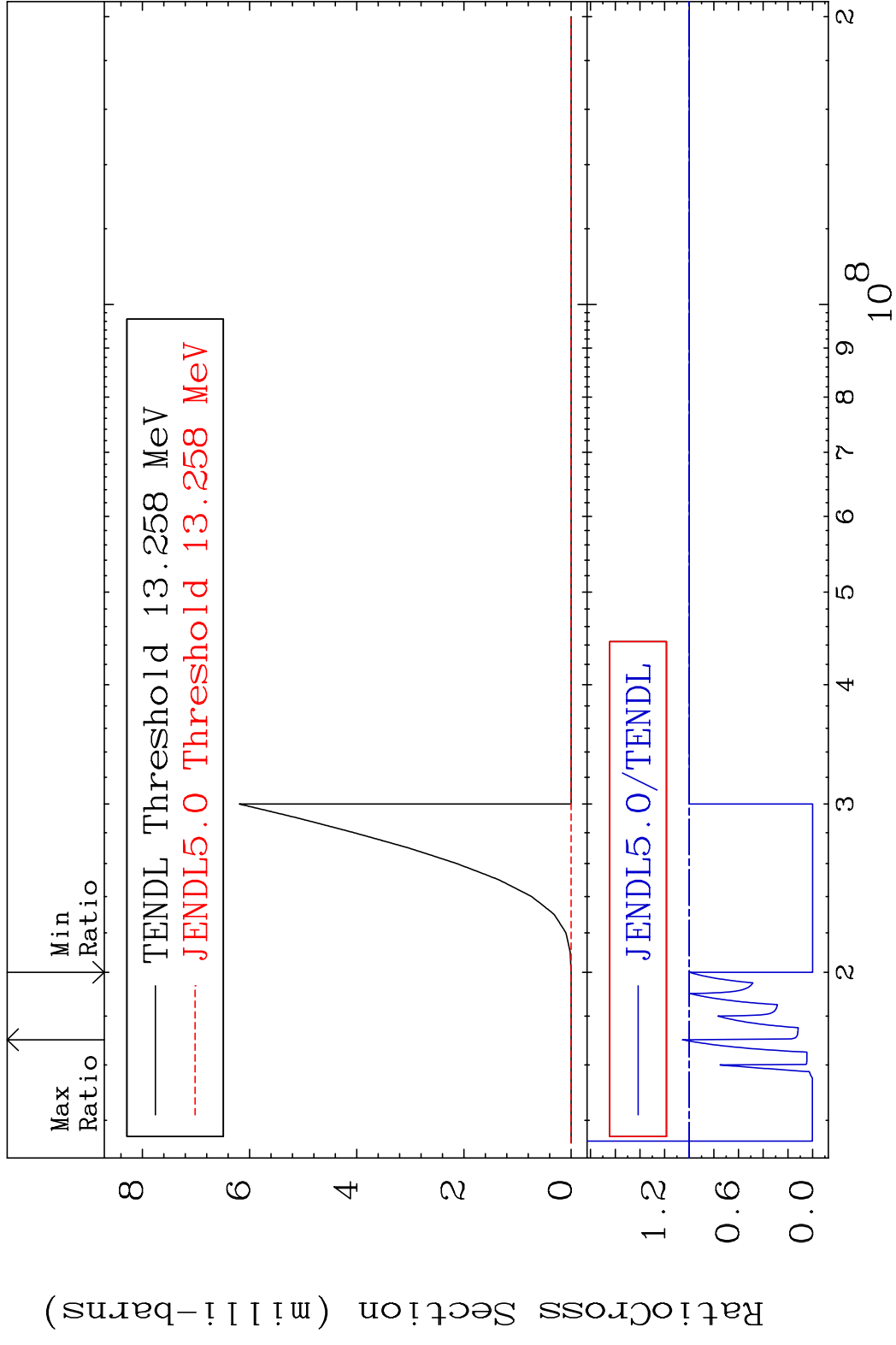
64-Gd-150

MAT 6419

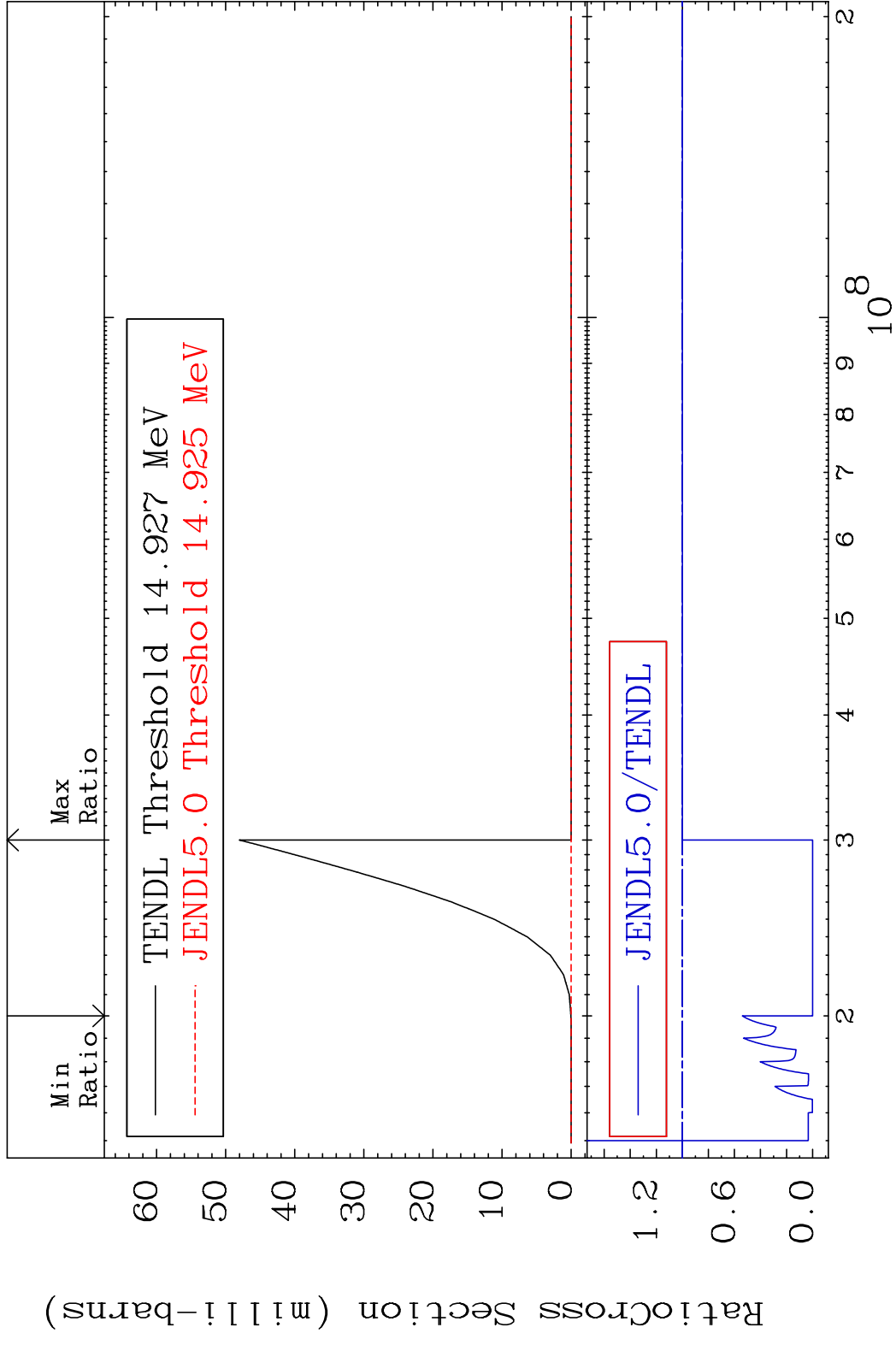
(n, n') t

64-Gd-150

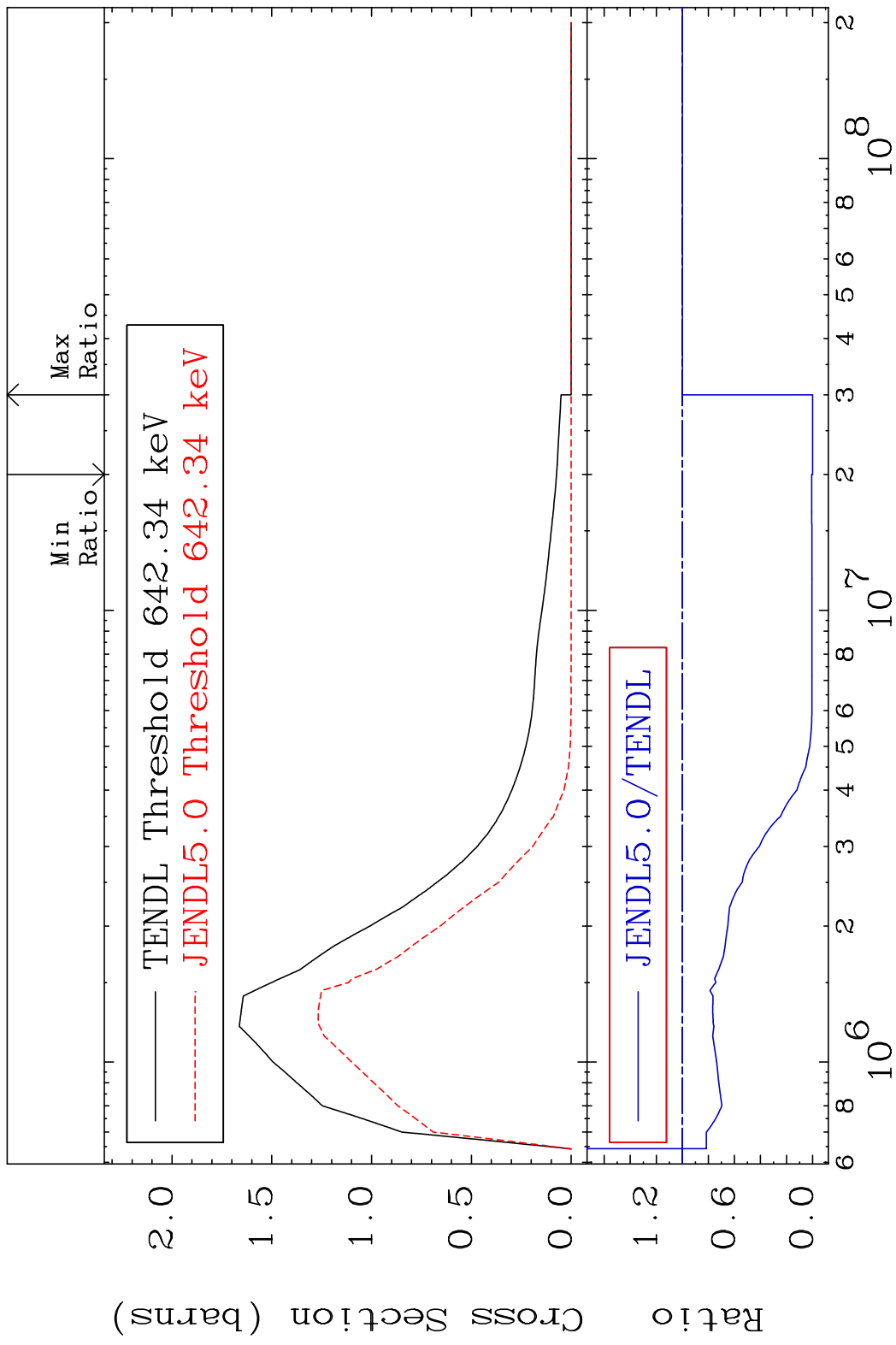
Cross Section -100.0 To 5.574 %



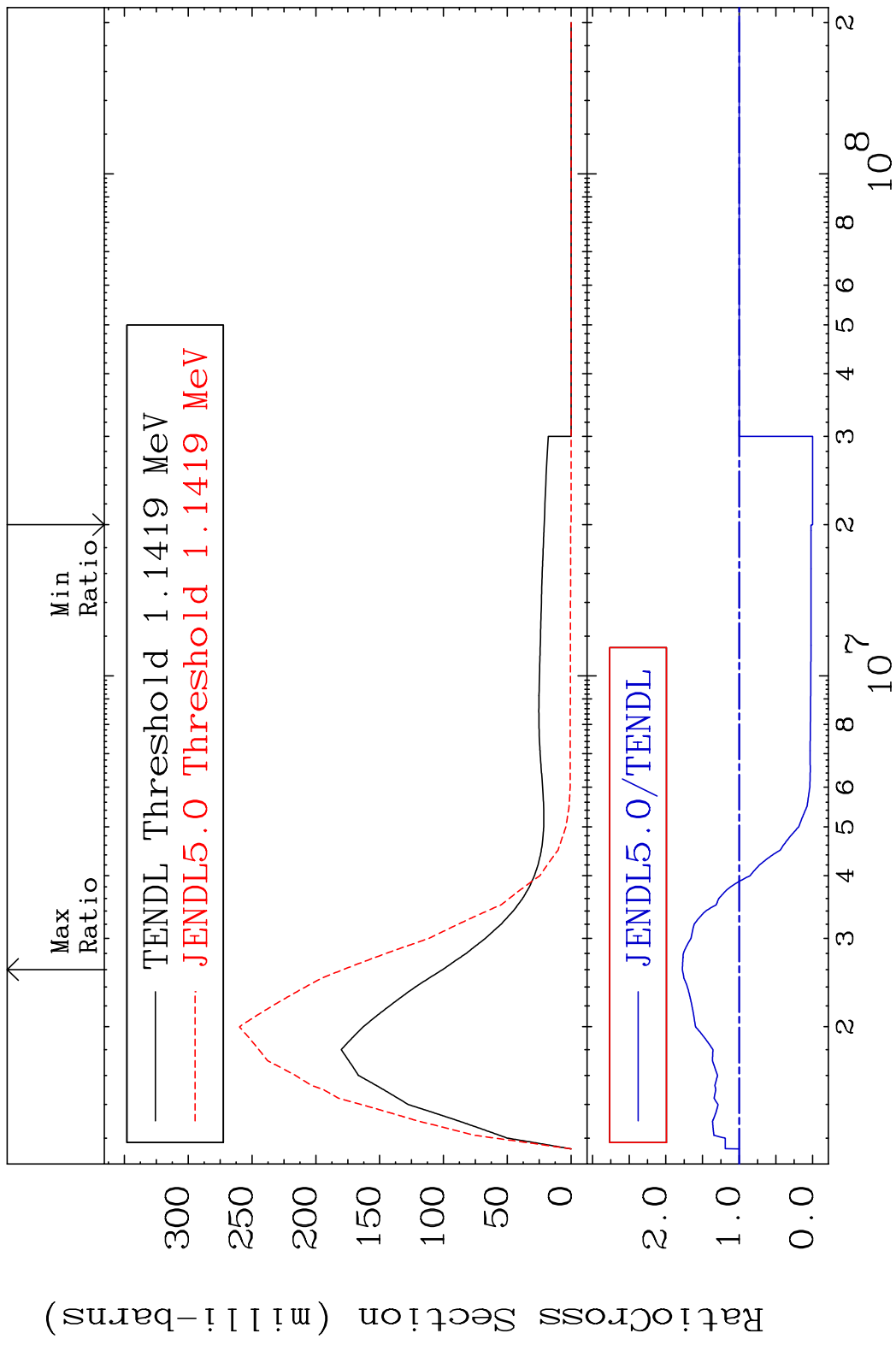
MAT 6419 (n,2n) p 64-Gd-150
 Cross Section -100.0 To 0.000 %



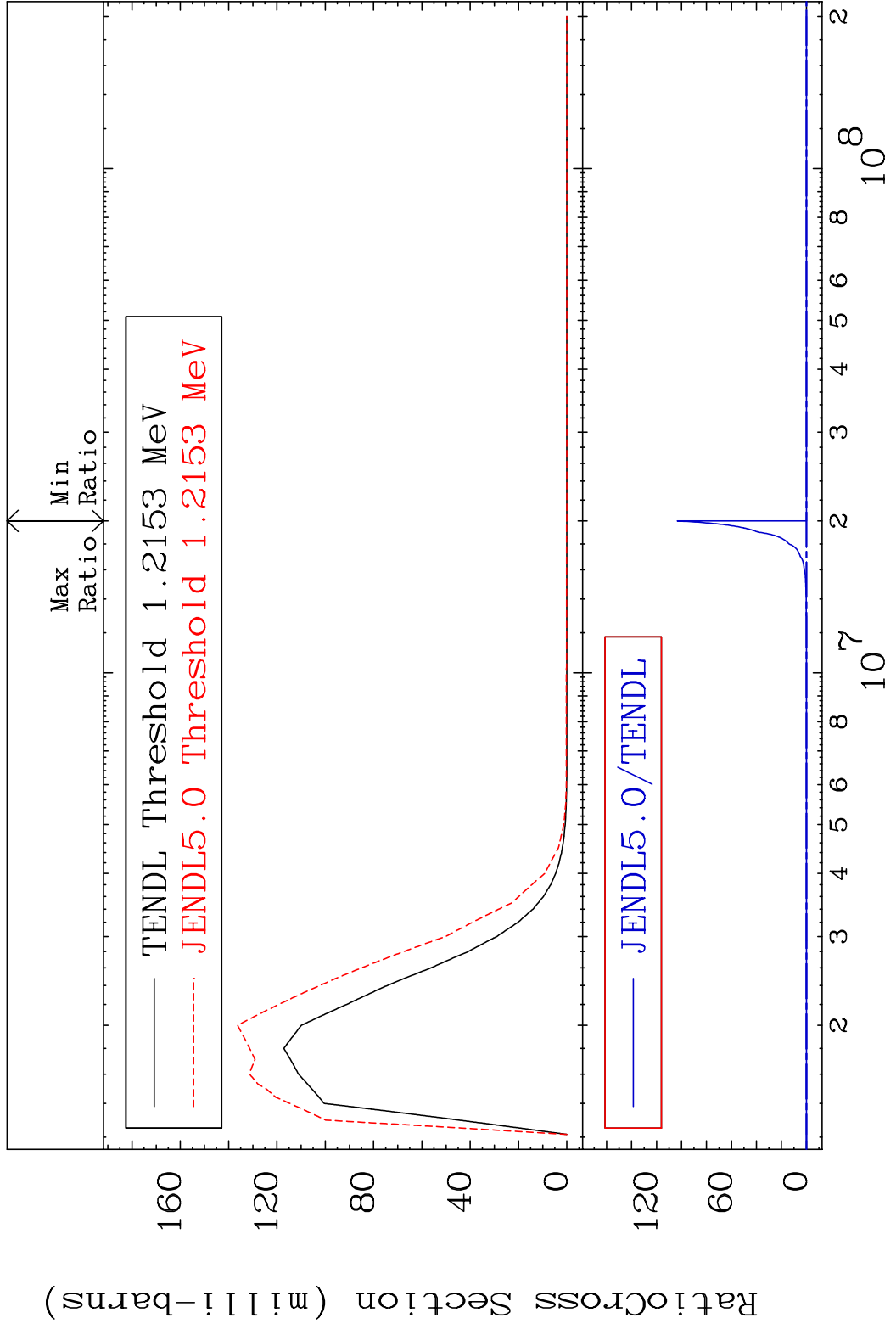
MAT 6419 MT= 51 (n, n') Level 64-Gd-150
 Cross Section -100.0 To 0.000 %



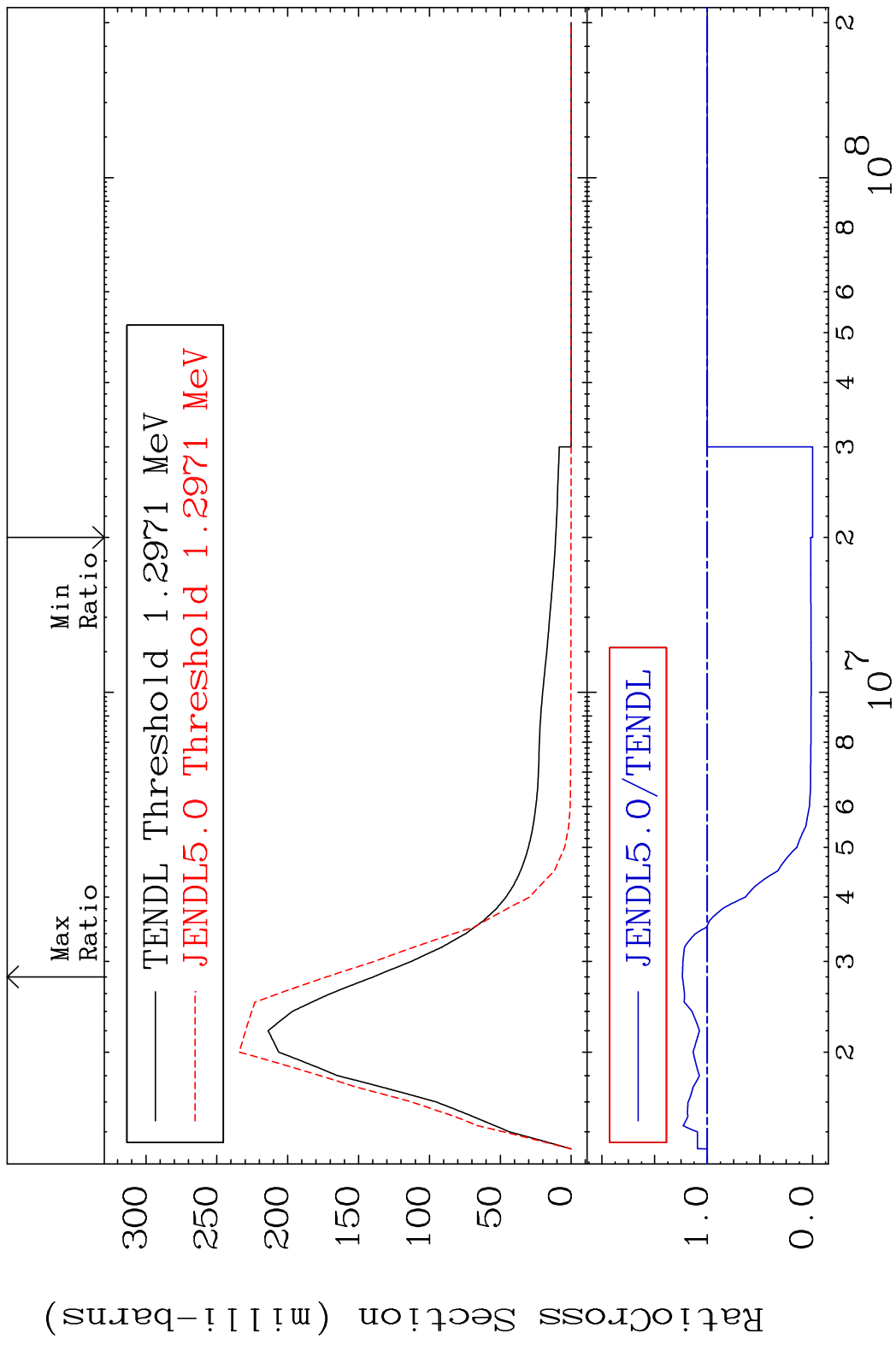
MAT 6419 MT= 52 (n, n') Level 64-Gd-150
 Cross Section -100.0 To 77.50 %



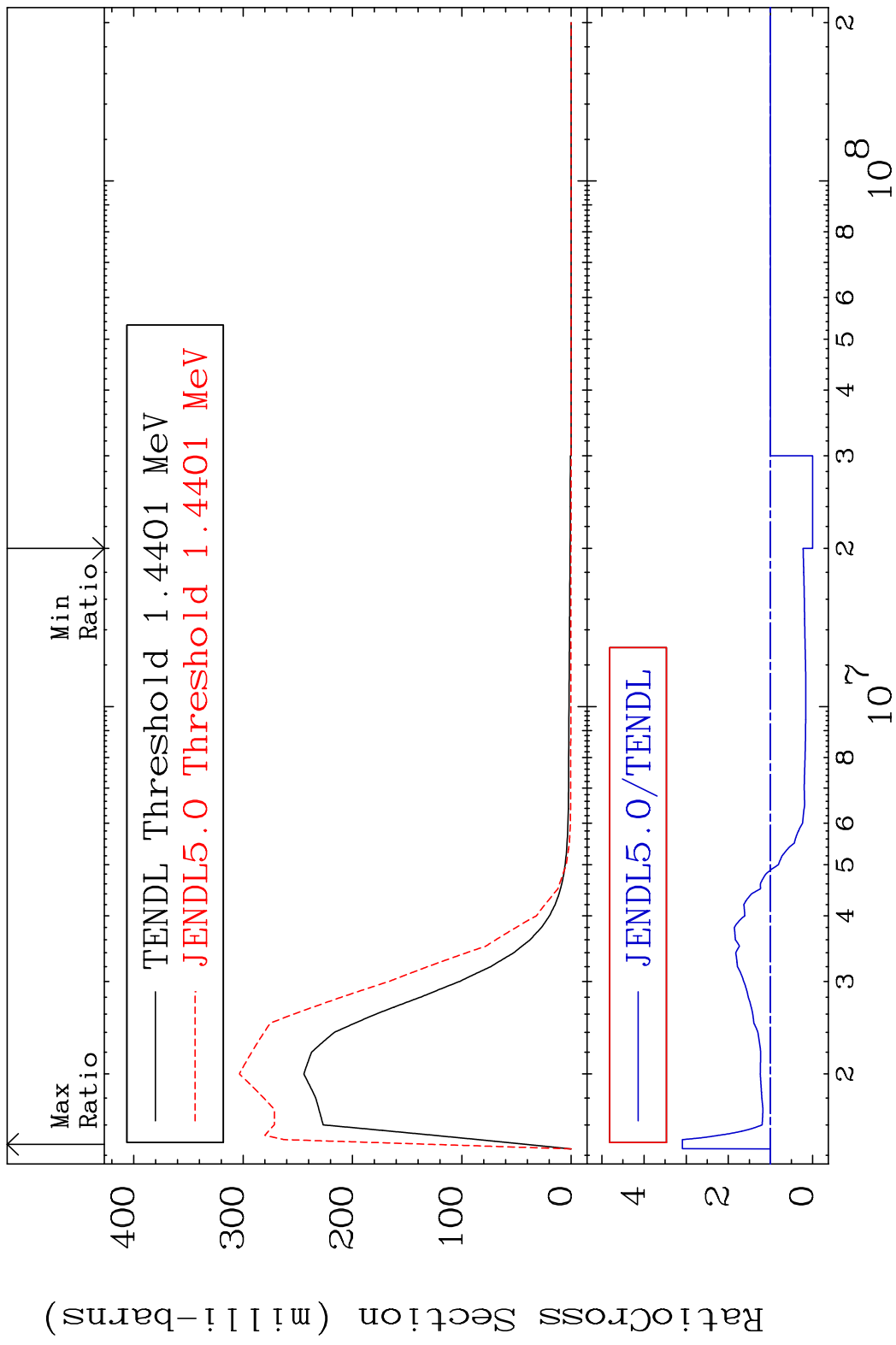
MAT 6419 MT= 53 (n, n') Level 64-Gd-150
 Cross Section -100.0 To 9999. %



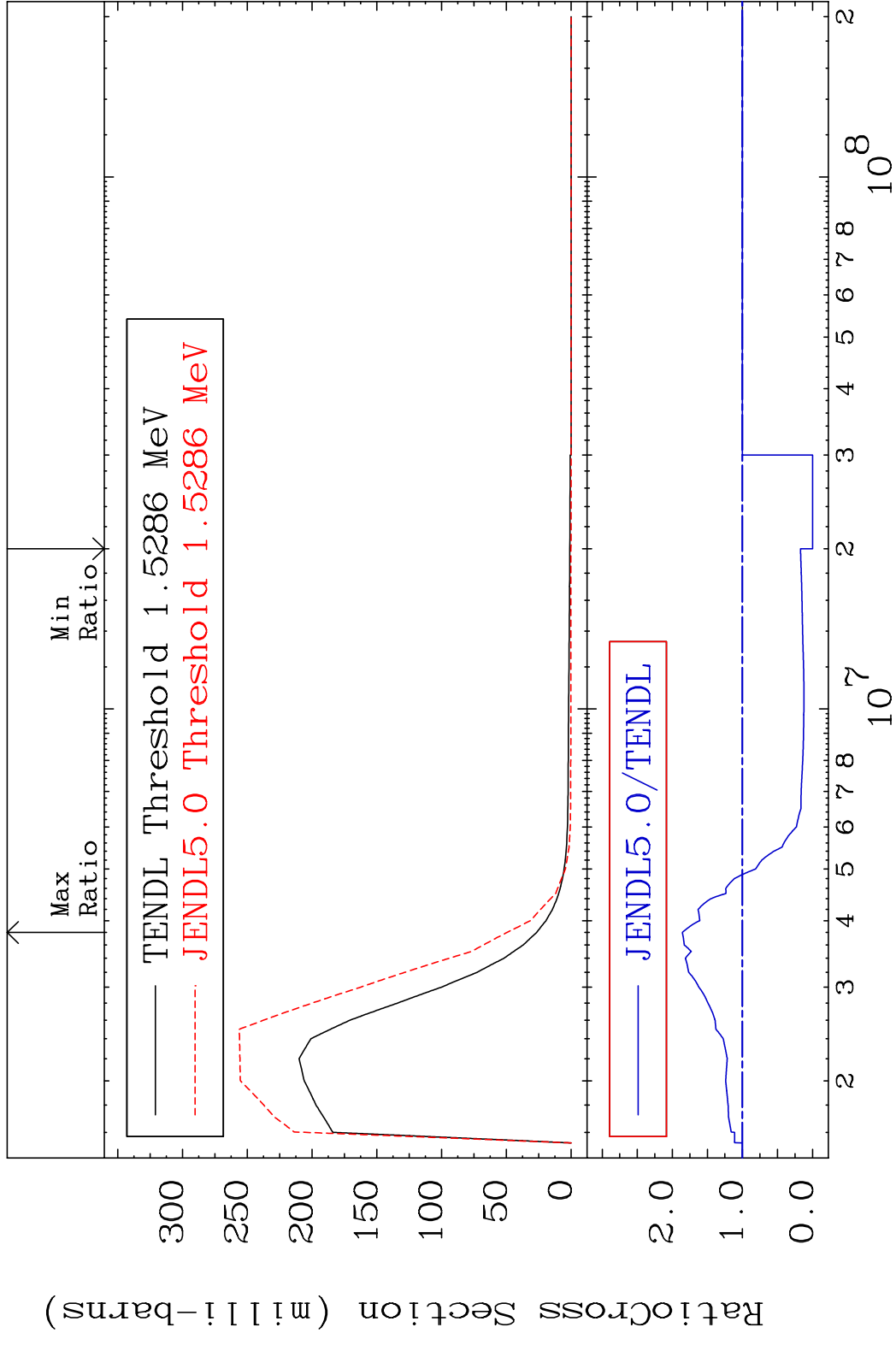
MAT 6419 MT= 54 (n, n') Level 64-Gd-150
 Cross Section -100.0 To 23.66 %



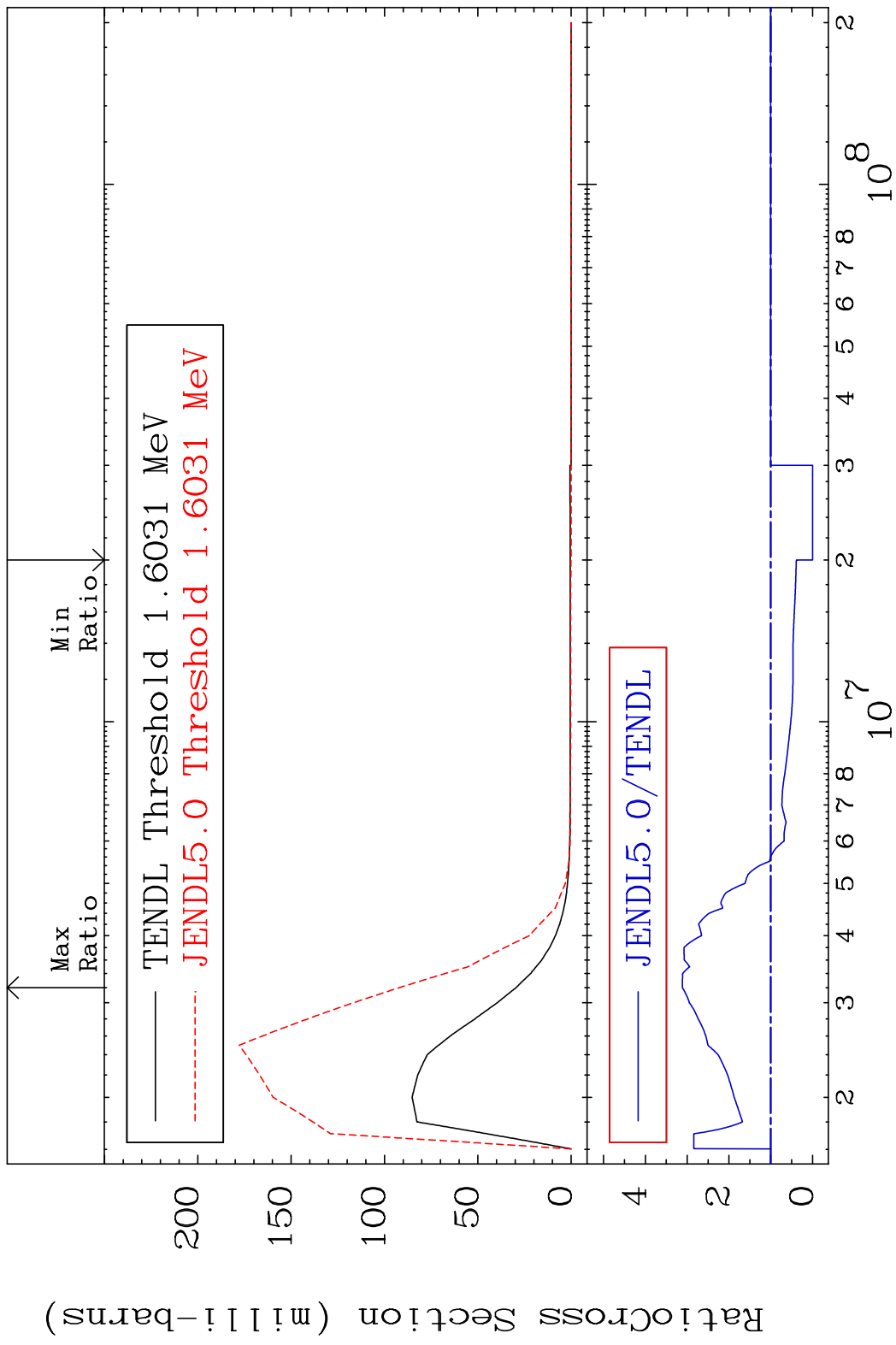
MAT 6419 MT= 55 (n, n') Level 64-Gd-150
 Cross Section -100.0 To 209.0 %



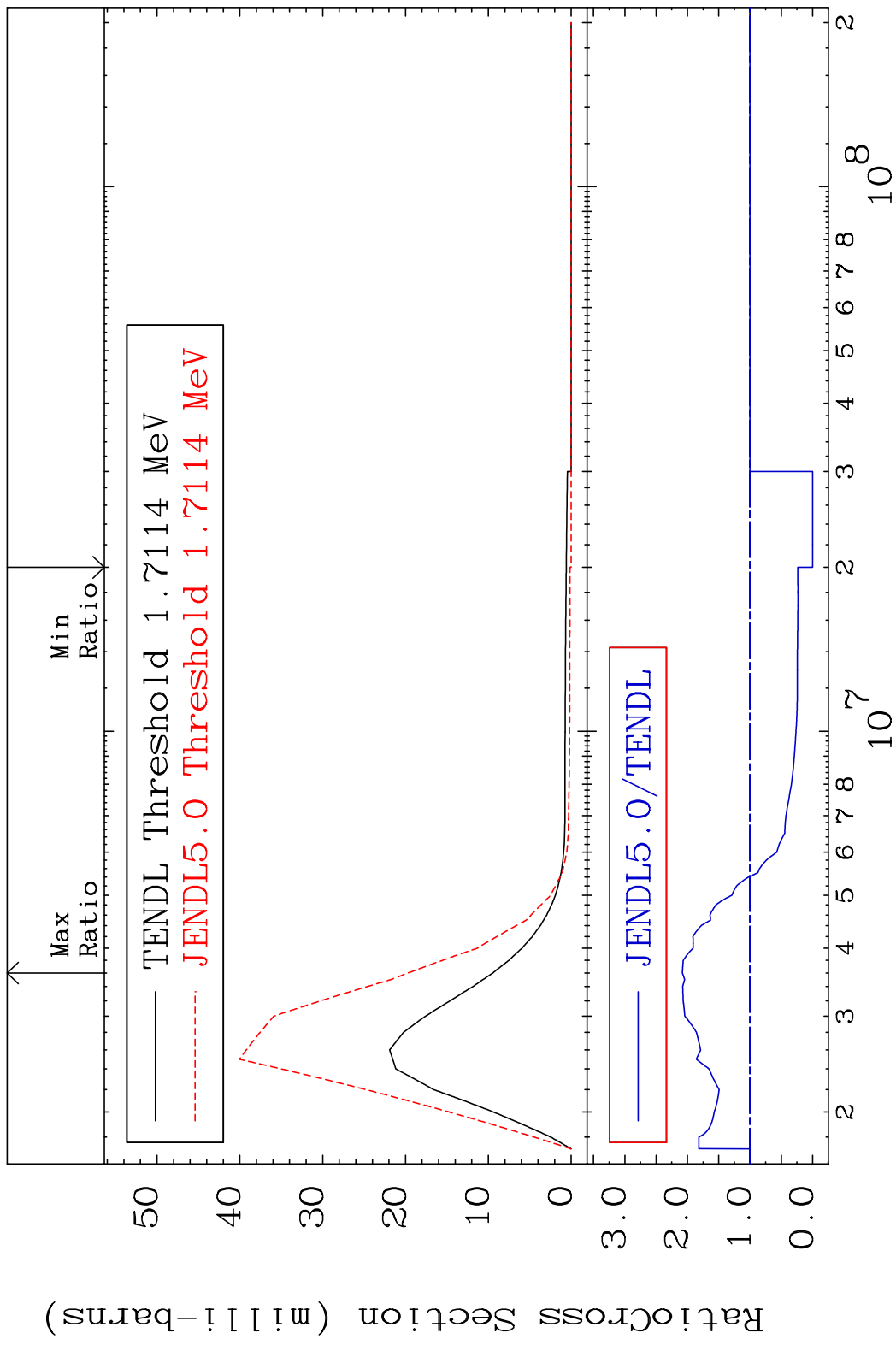
MAT 6419 MT= 56 (n, n') Level 64-Gd-150
 Cross Section -100.0 To 85.71 %



MAT 6419 MT= 57 (n, n') Level 64-Gd-150
 Cross Section -100.0 To 211.5 %



MAT 6419 MT= 58 (n, n') Level 64-Gd-150
 Cross Section -100.0 To 108.1 %

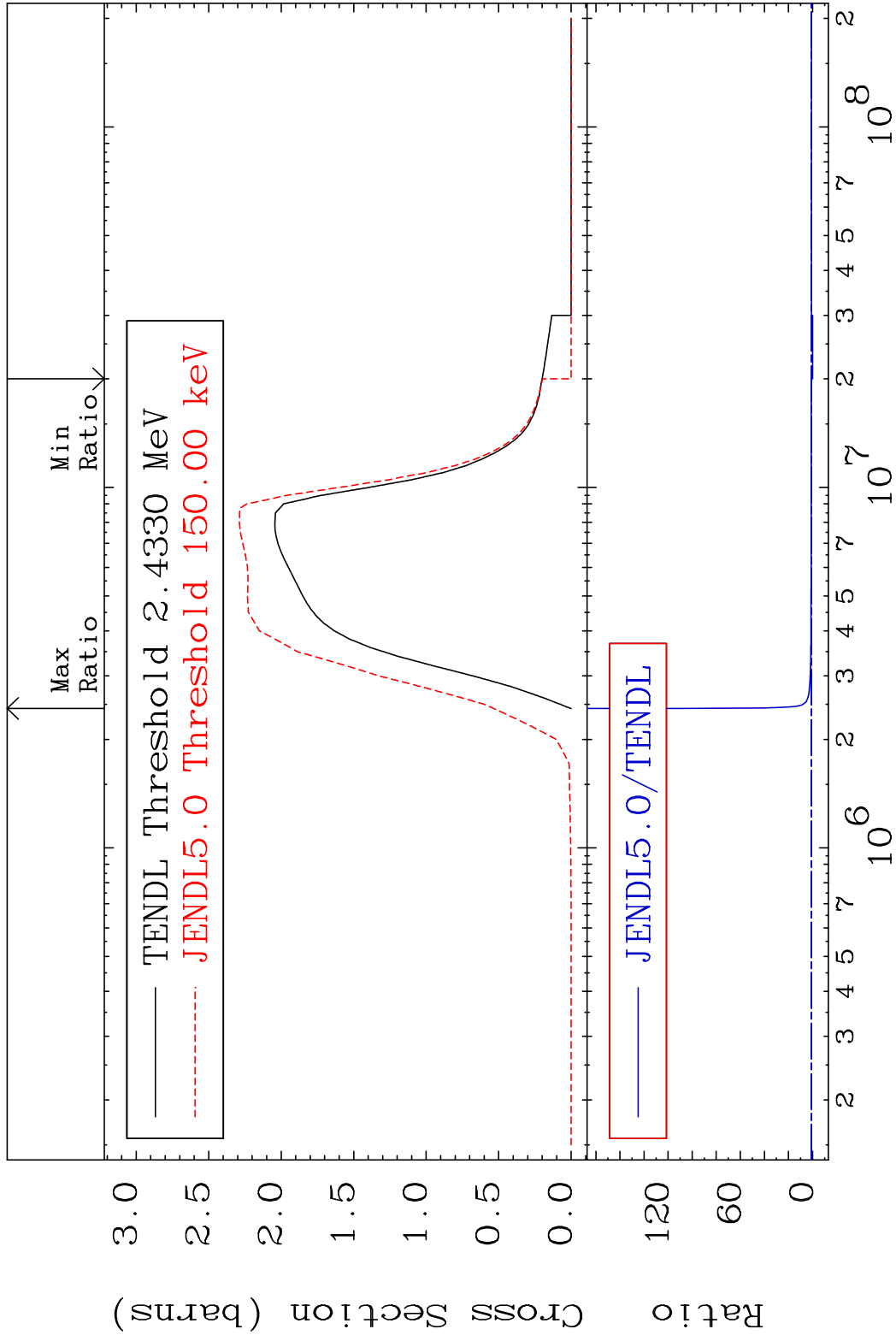


MAT 6419

(n,n') Continuum

64-Gd-150

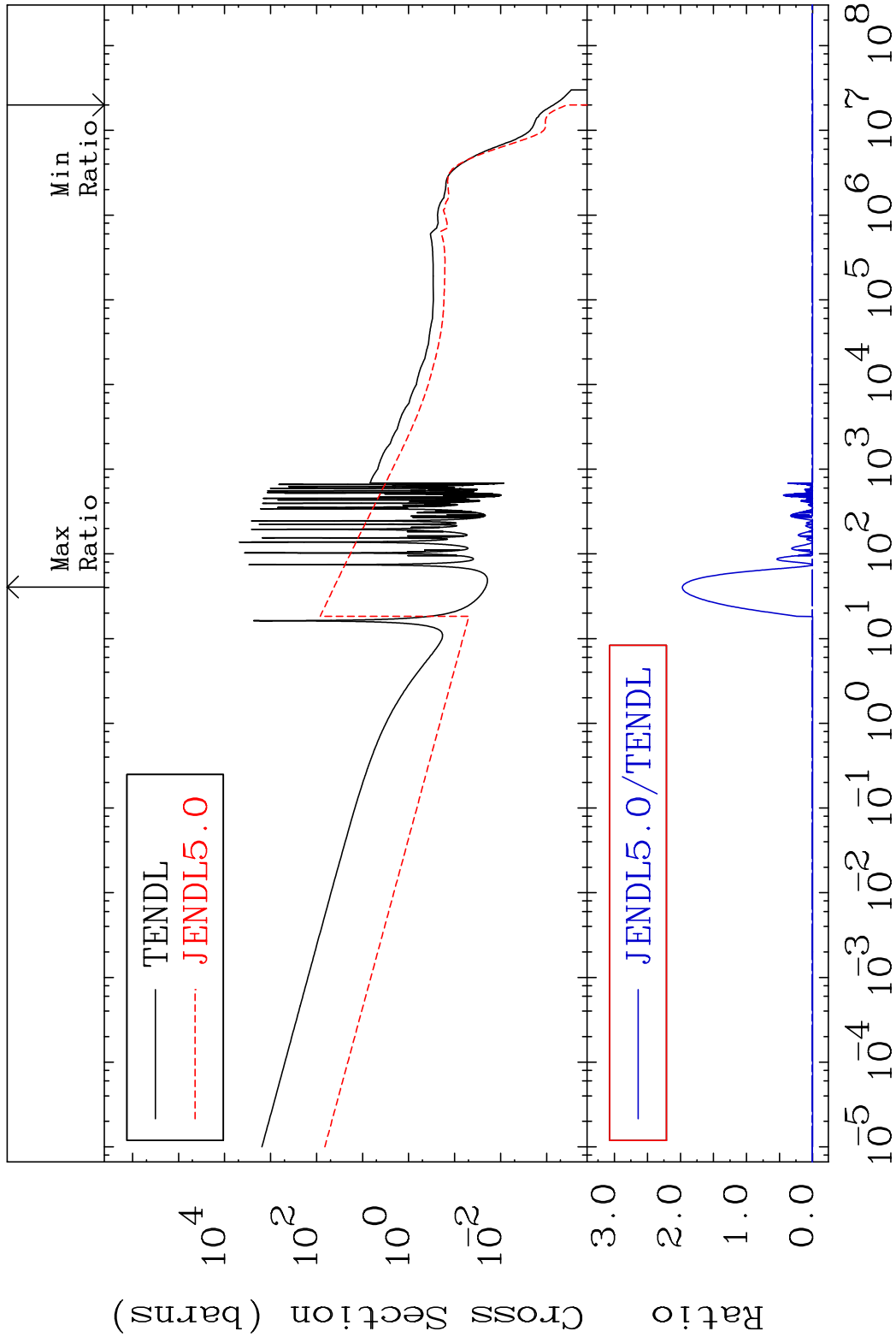
Cross Section -100.0 To 9999. %



MAT 6419

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

64-Gd-150



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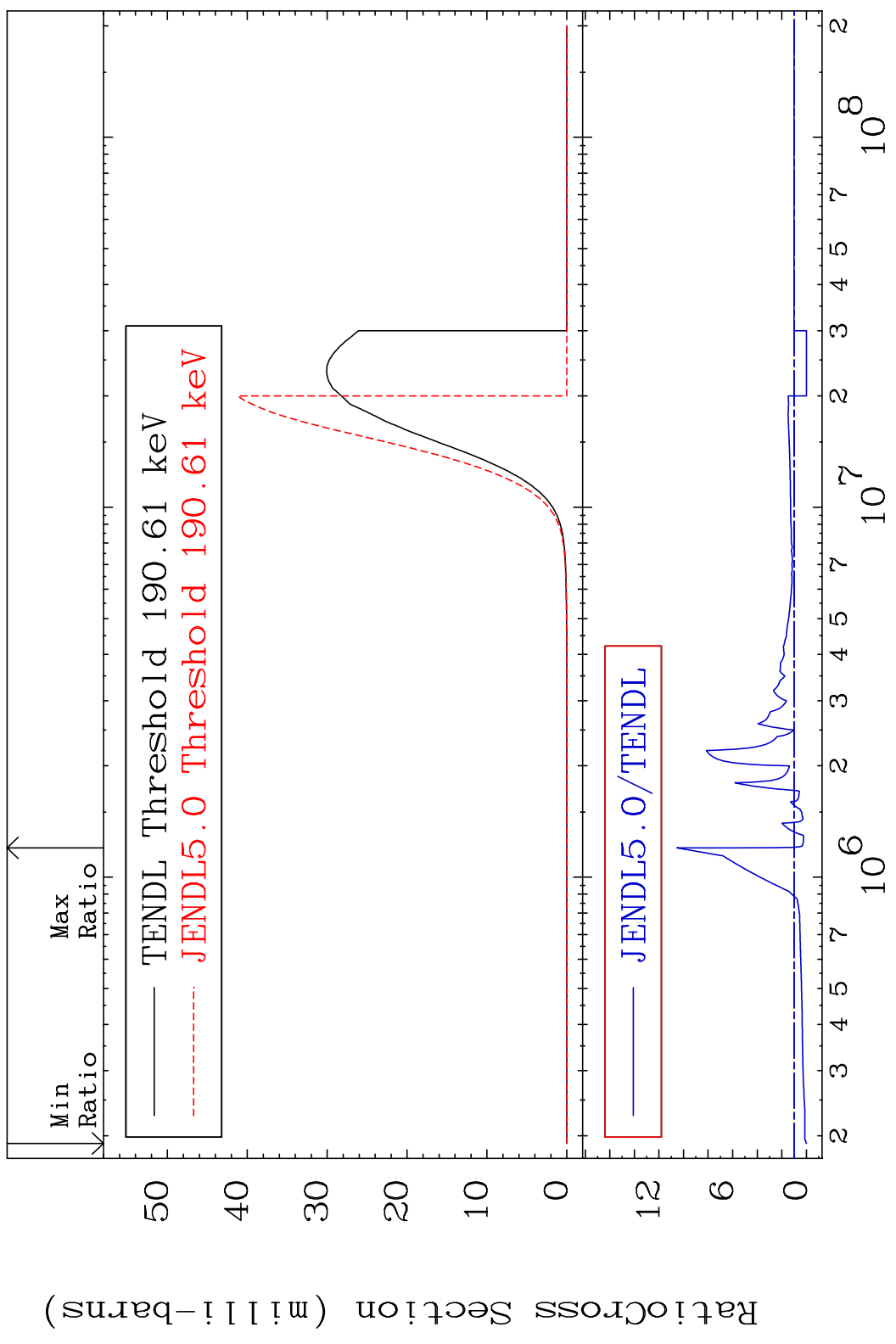
64-Gd-150

MAT 6419

(n,p)

64-Gd-150

Cross Section -100.0 To 951.7 %

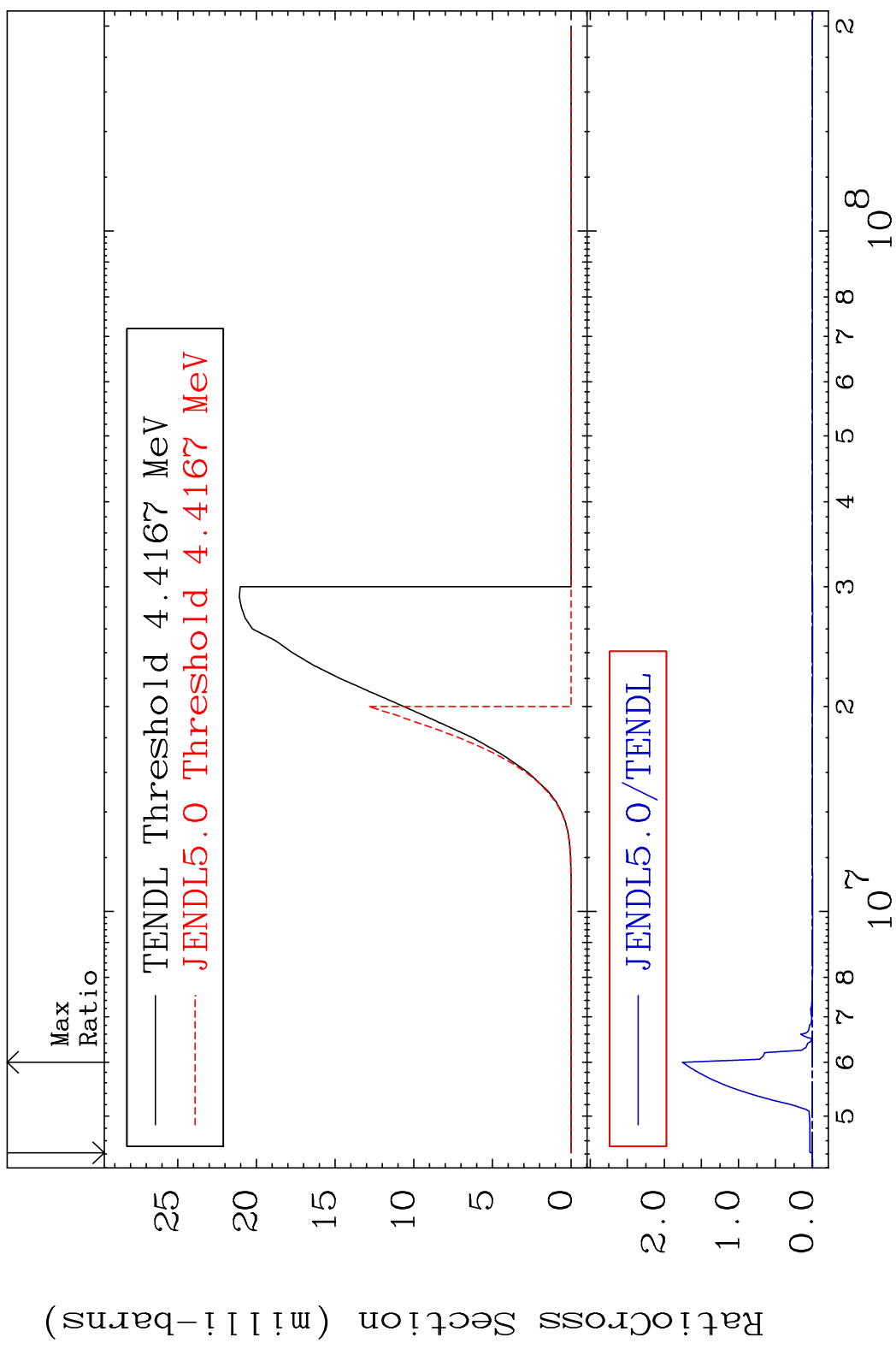


MAT 6419

(n,d)

64-Gd-150

Cross Section -100.0 To 9999. %

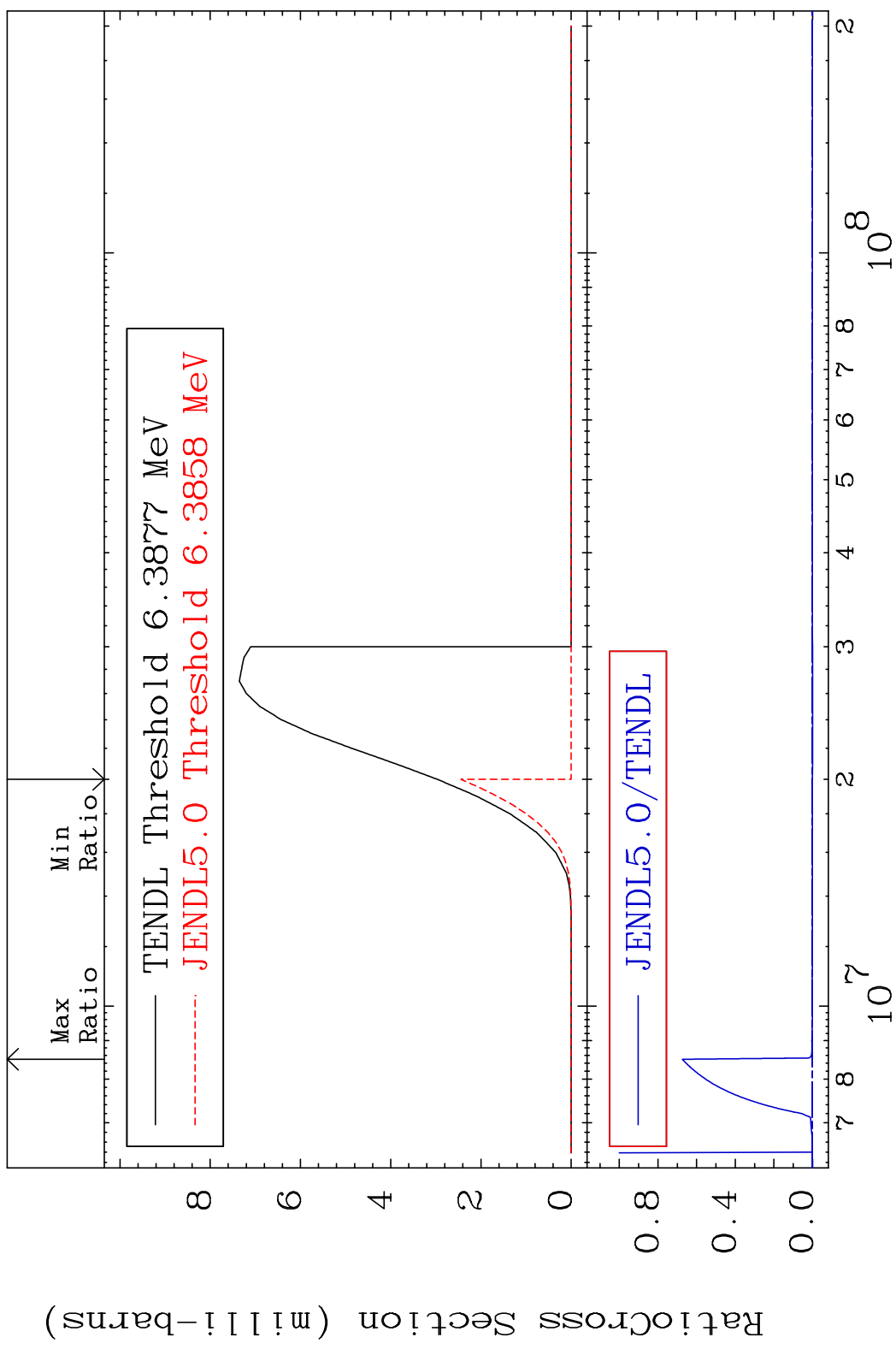


MAT 6419

(n, t)

64-Gd-150

Cross Section -100.0 To 9999. %

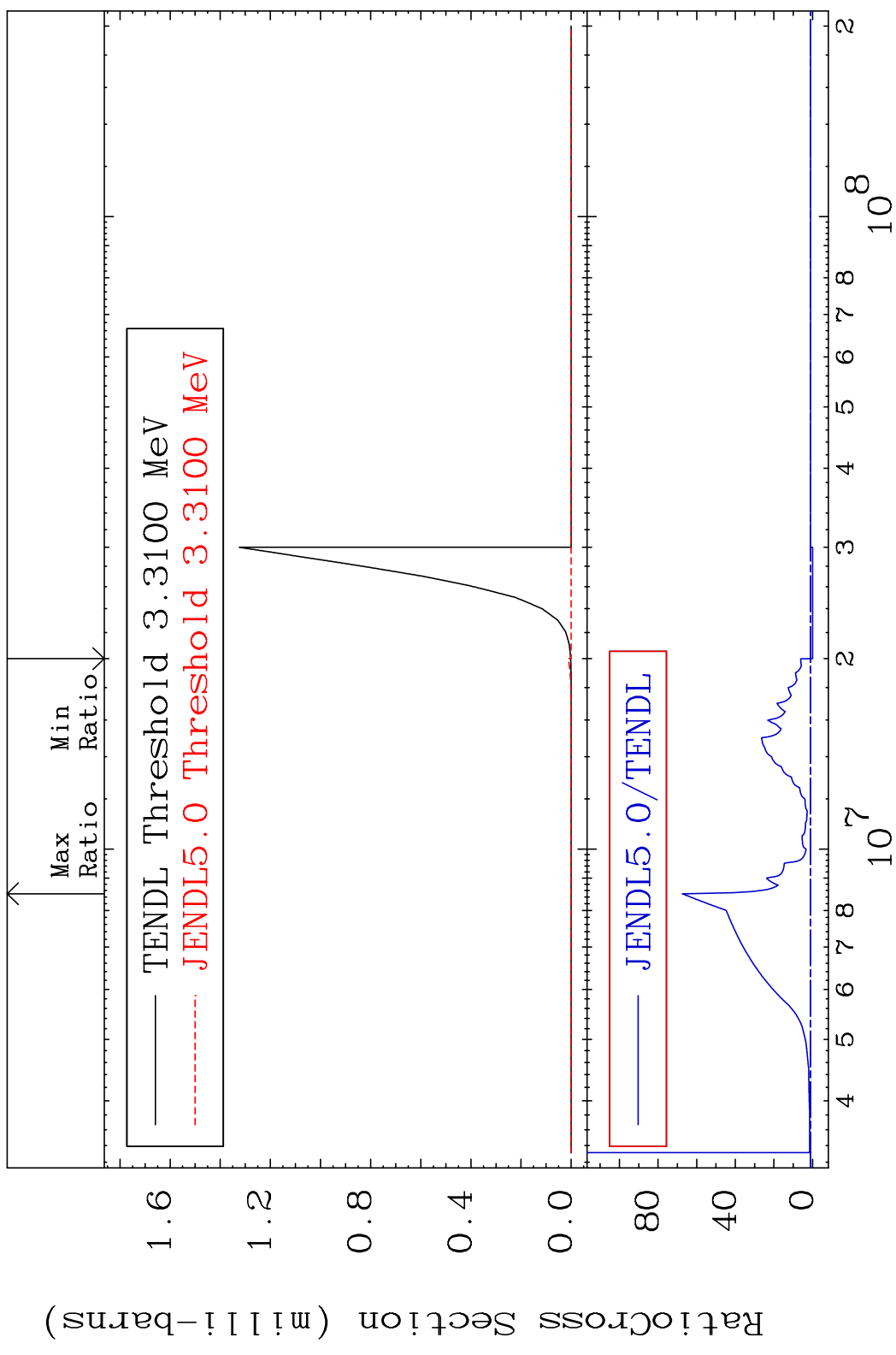


MAT 6419

(n, He-3)

64-Gd-150

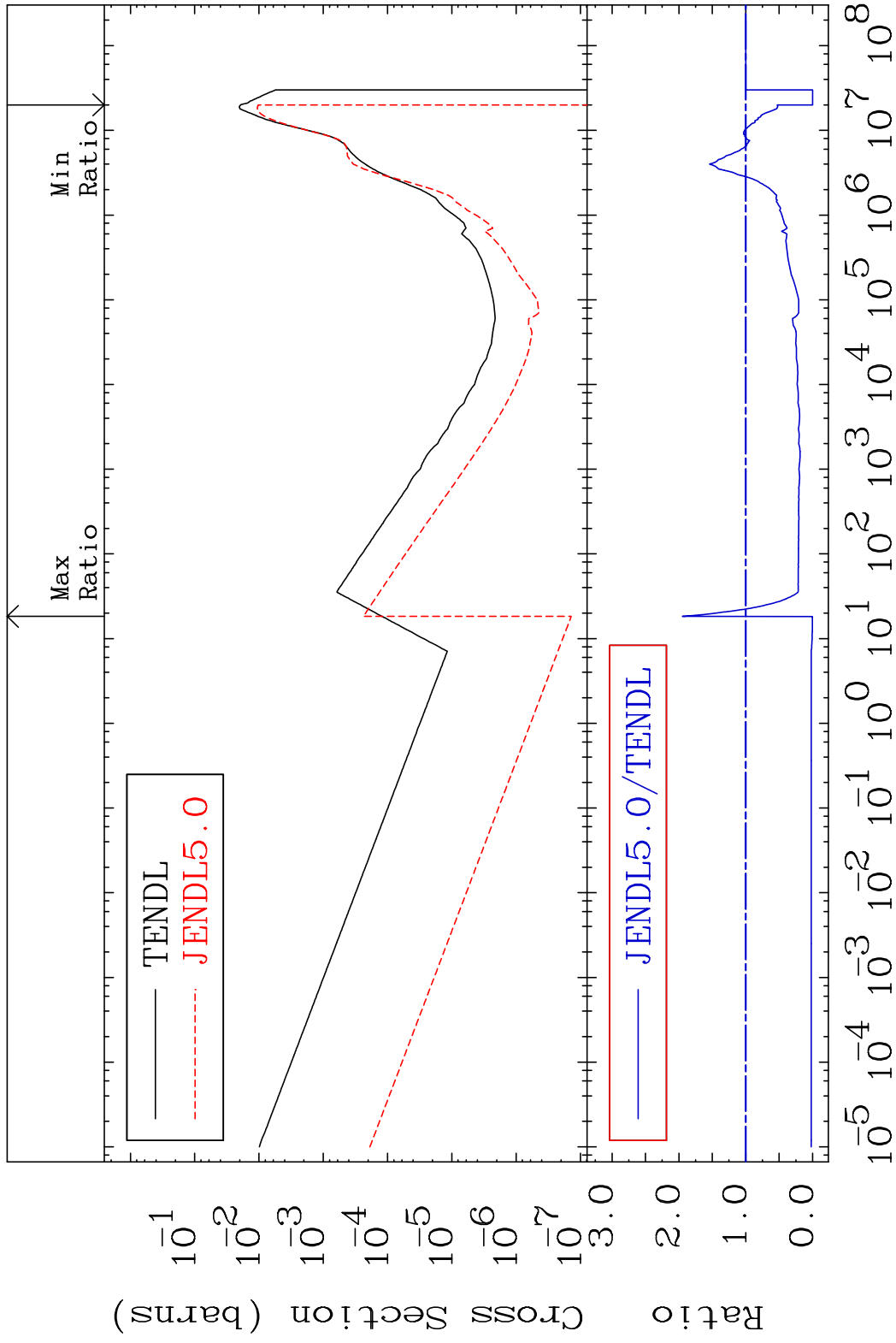
Cross Section -100.0 To 6643. %



MAT 6419

(n, α)
Cross Section -100.0 To 94.80 %

64-Gd-150



27

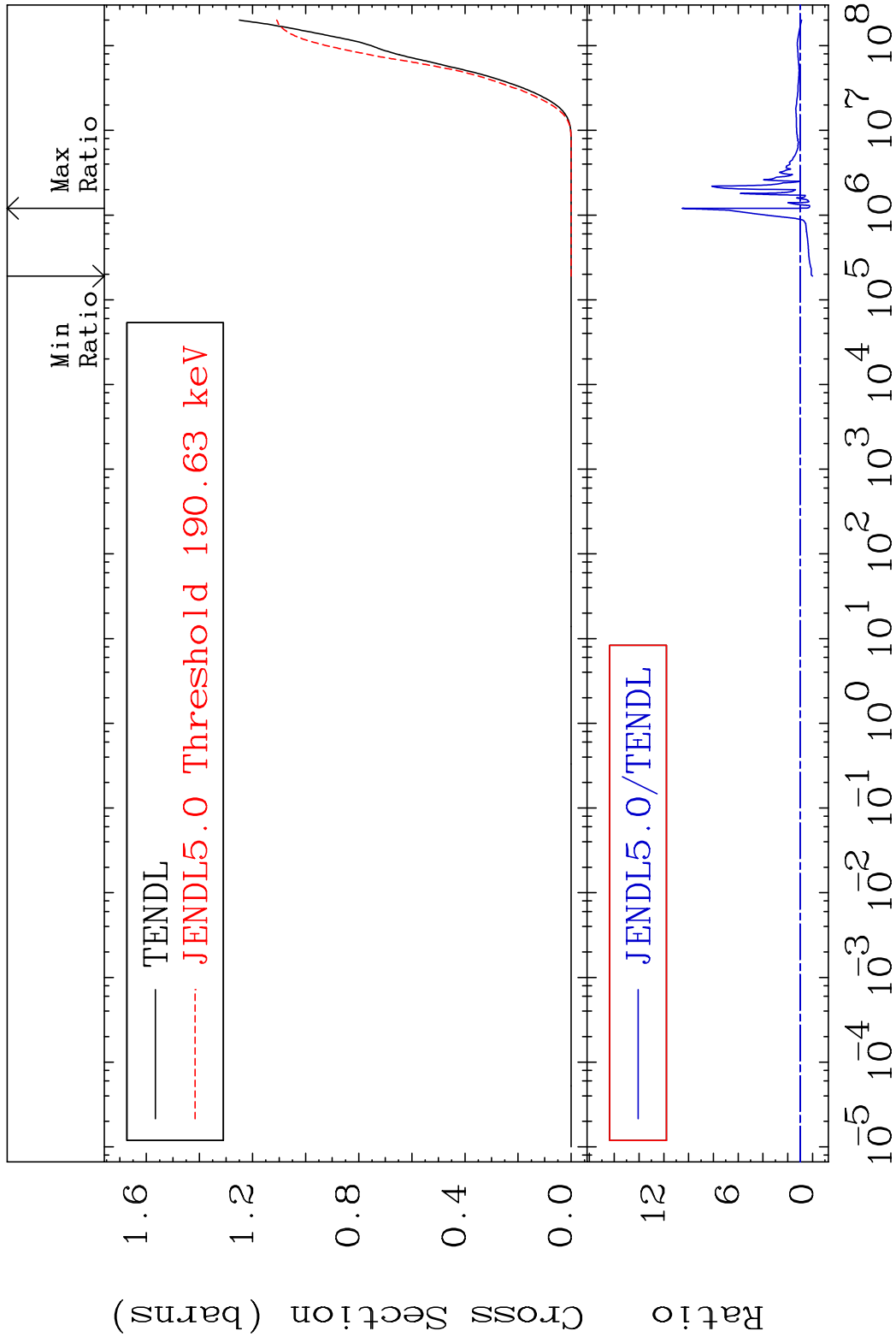
Incident Energy (eV) 64-Gd-150

MAT 6419

Hydrogen Production

64-Gd-150

Cross Section -100.0 To 950.4 %

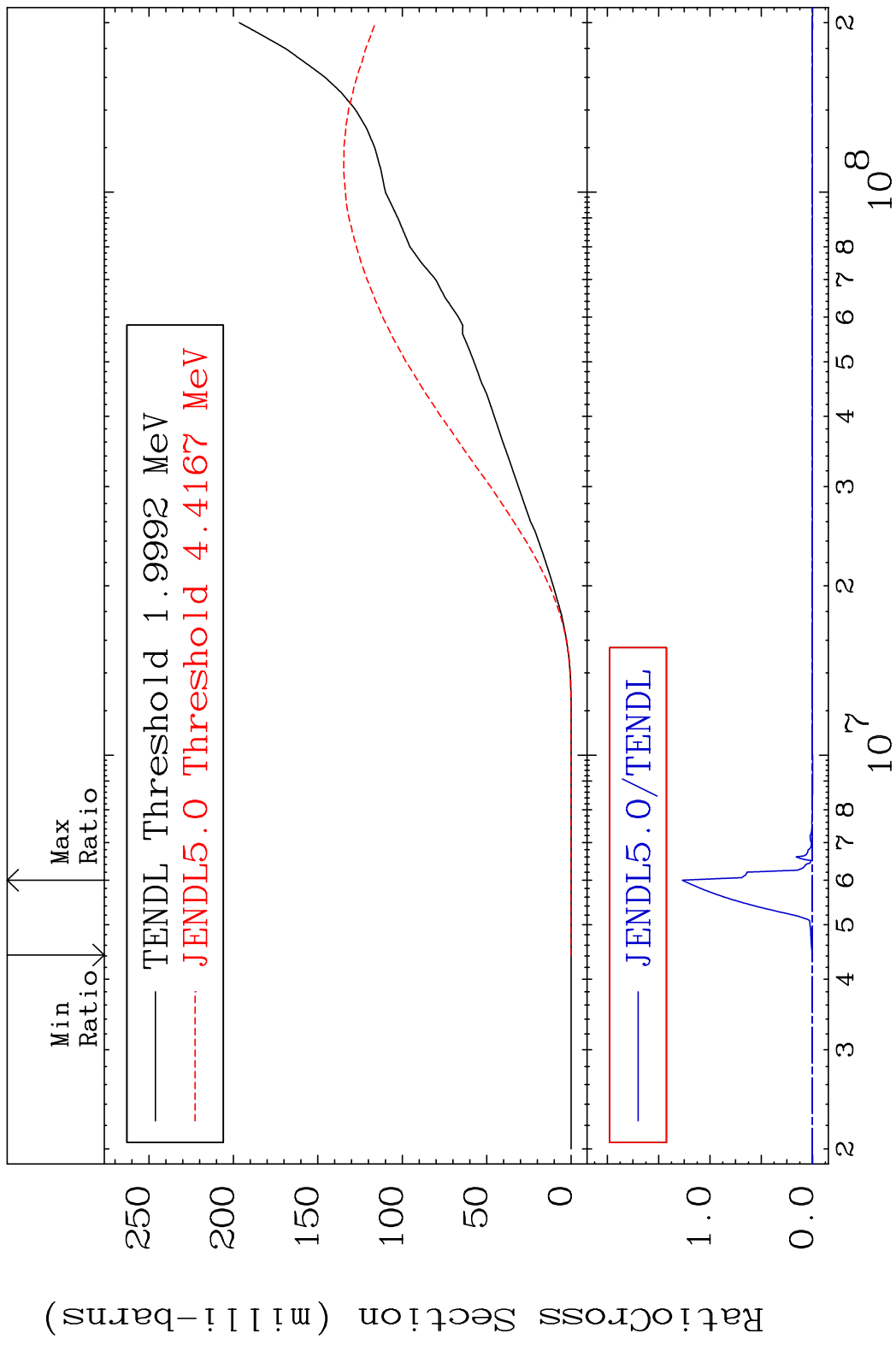


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Incident Energy (eV)

64-Gd-150

MAT 6419 Deuterium Production 64-Gd-150
 Cross Section -100.0 To 9999. %



29 Incident Energy (eV) 64-Gd-150

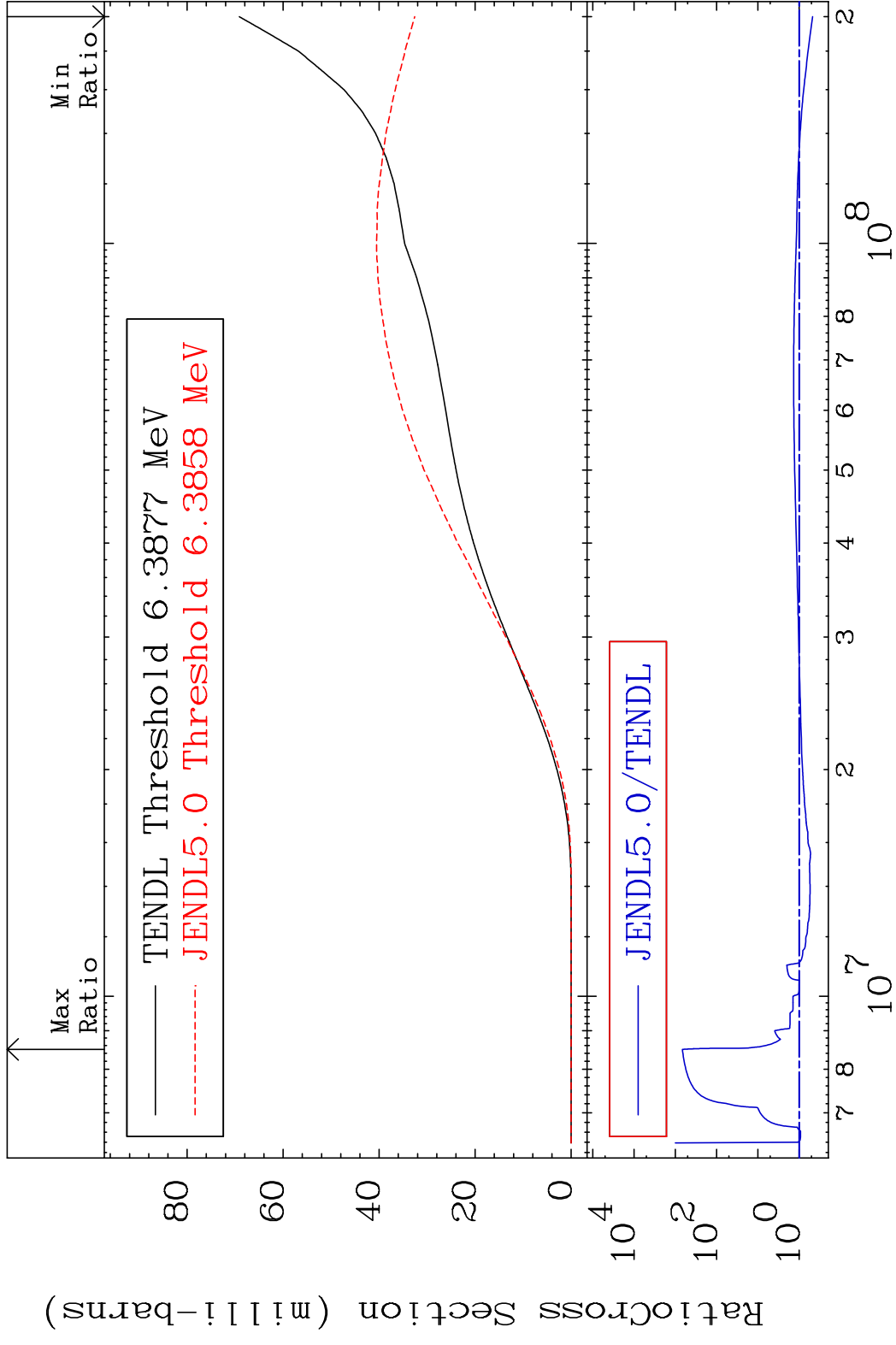
MAT 6419

Tritium Production

64-Gd-150

Cross Section

-52.85 To 9999. %



30

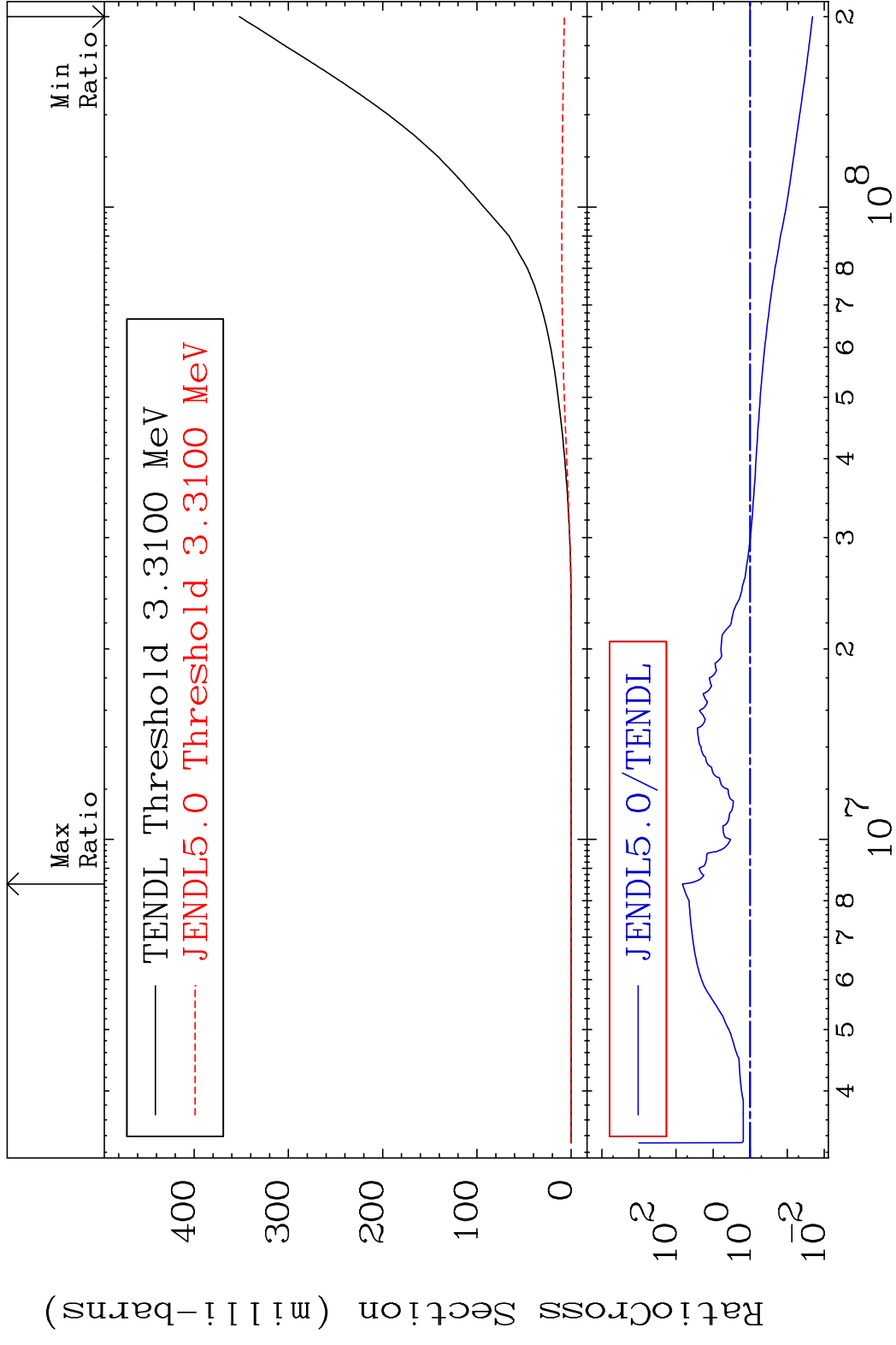
Incident Energy (eV)

64-Gd-150

MAT 6419

He-3 Production
Cross Section

64-Gd-150
-97.93 To 6643. %

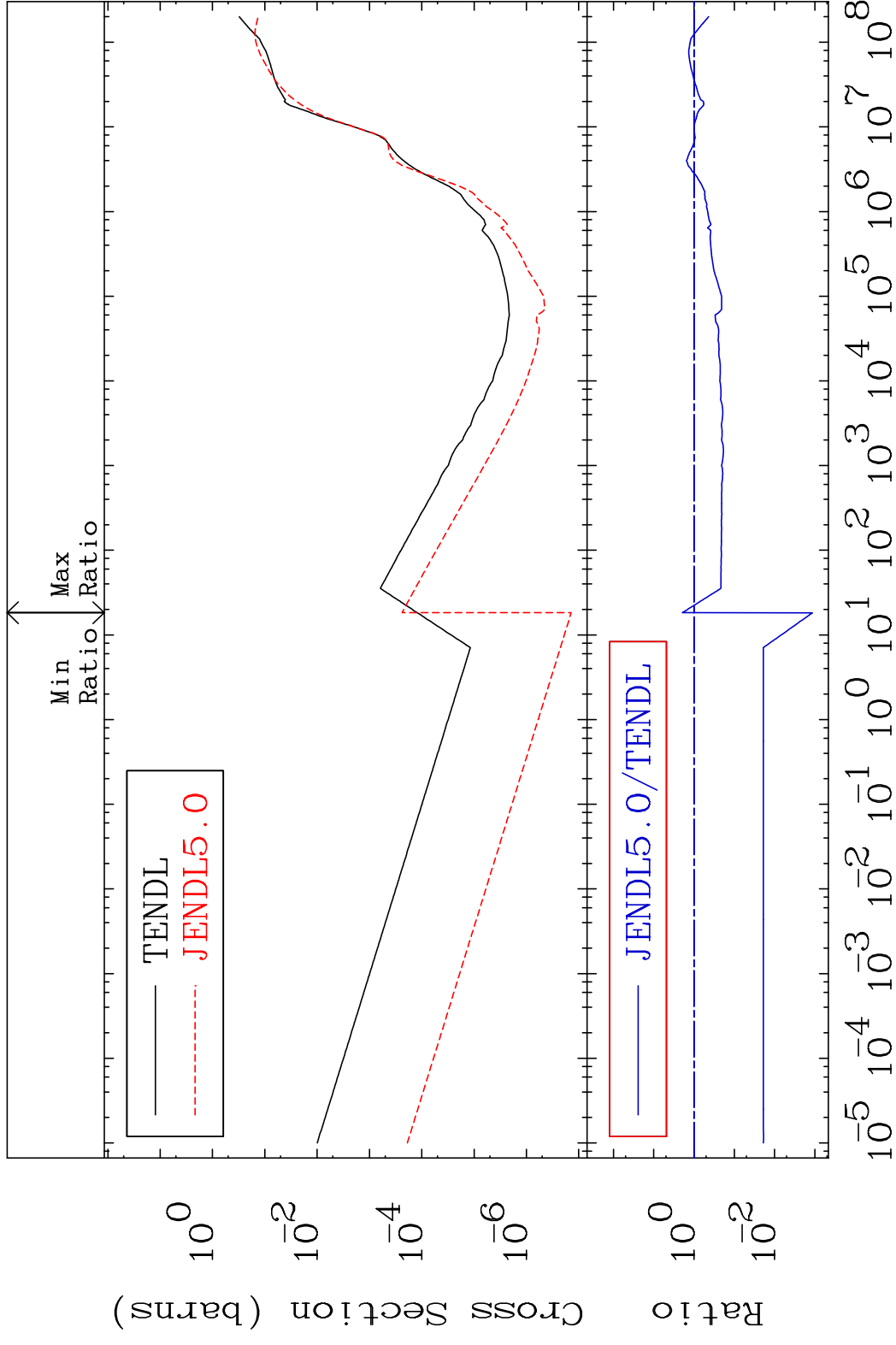


MAT 6419

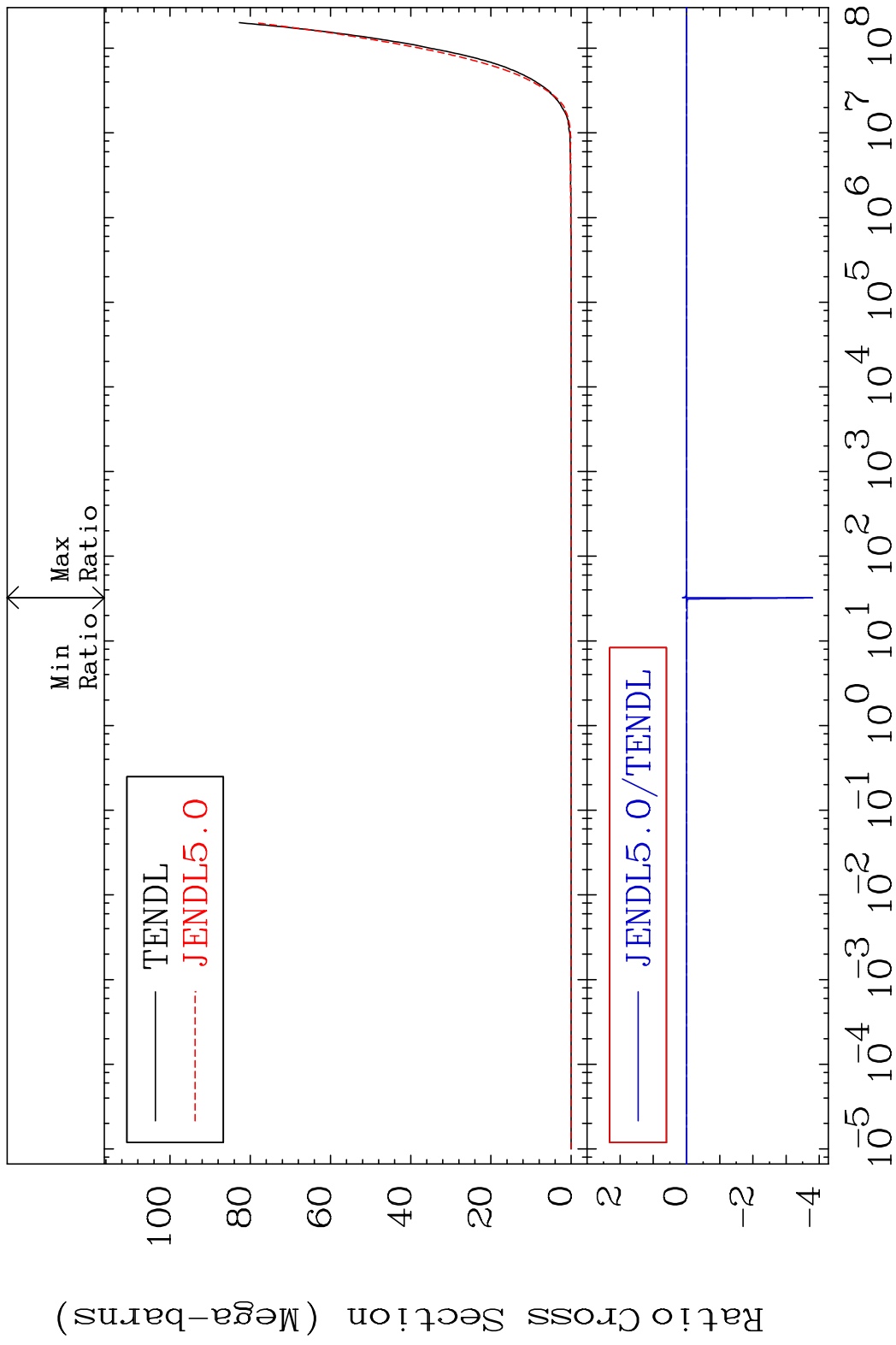
He-4 Production

64-Gd-150

Cross Section -99.89 To 94.80 %



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

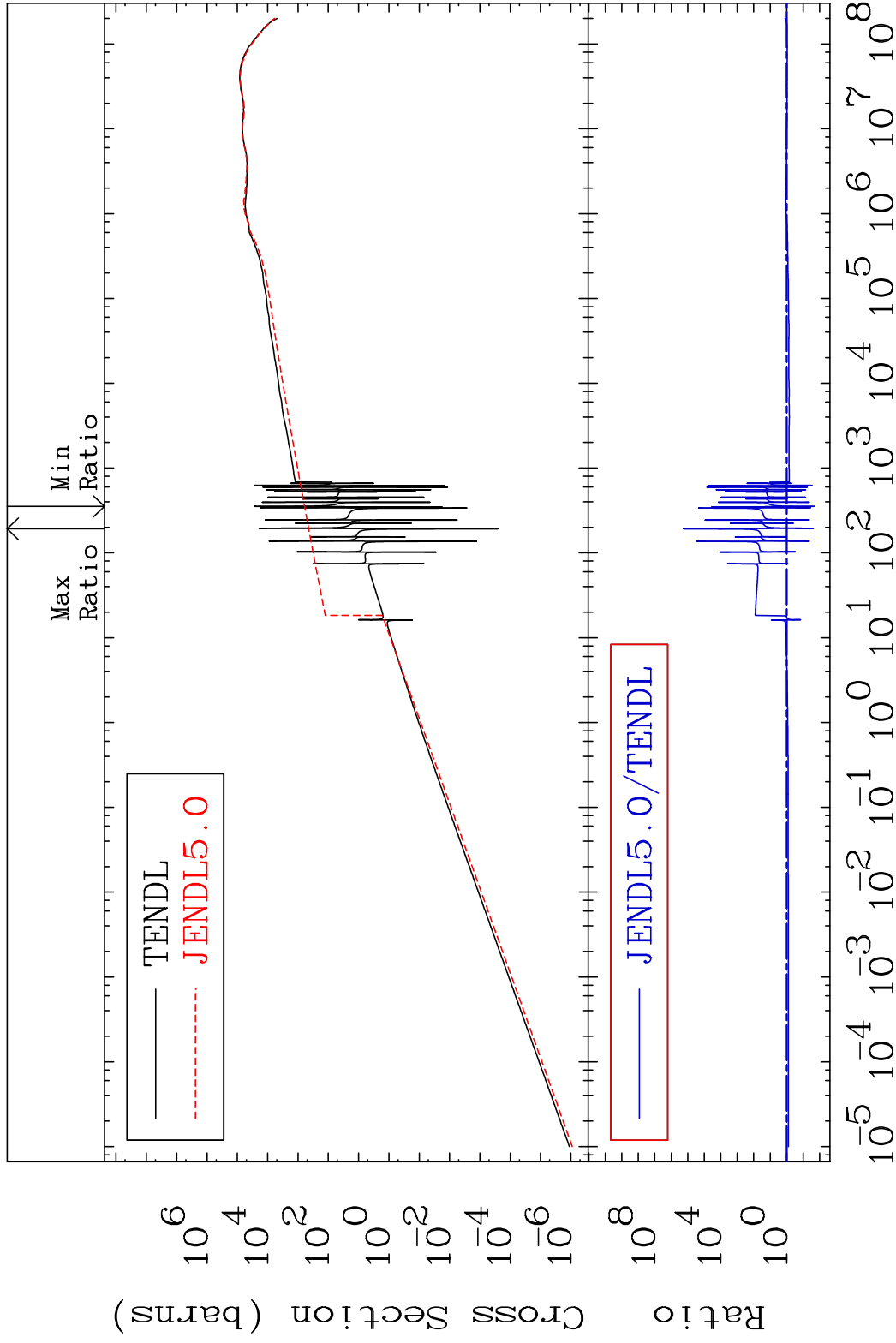


MAT 6419

Kerma elastic

64-Gd-150

Cross Section -97.83 To 9999. %

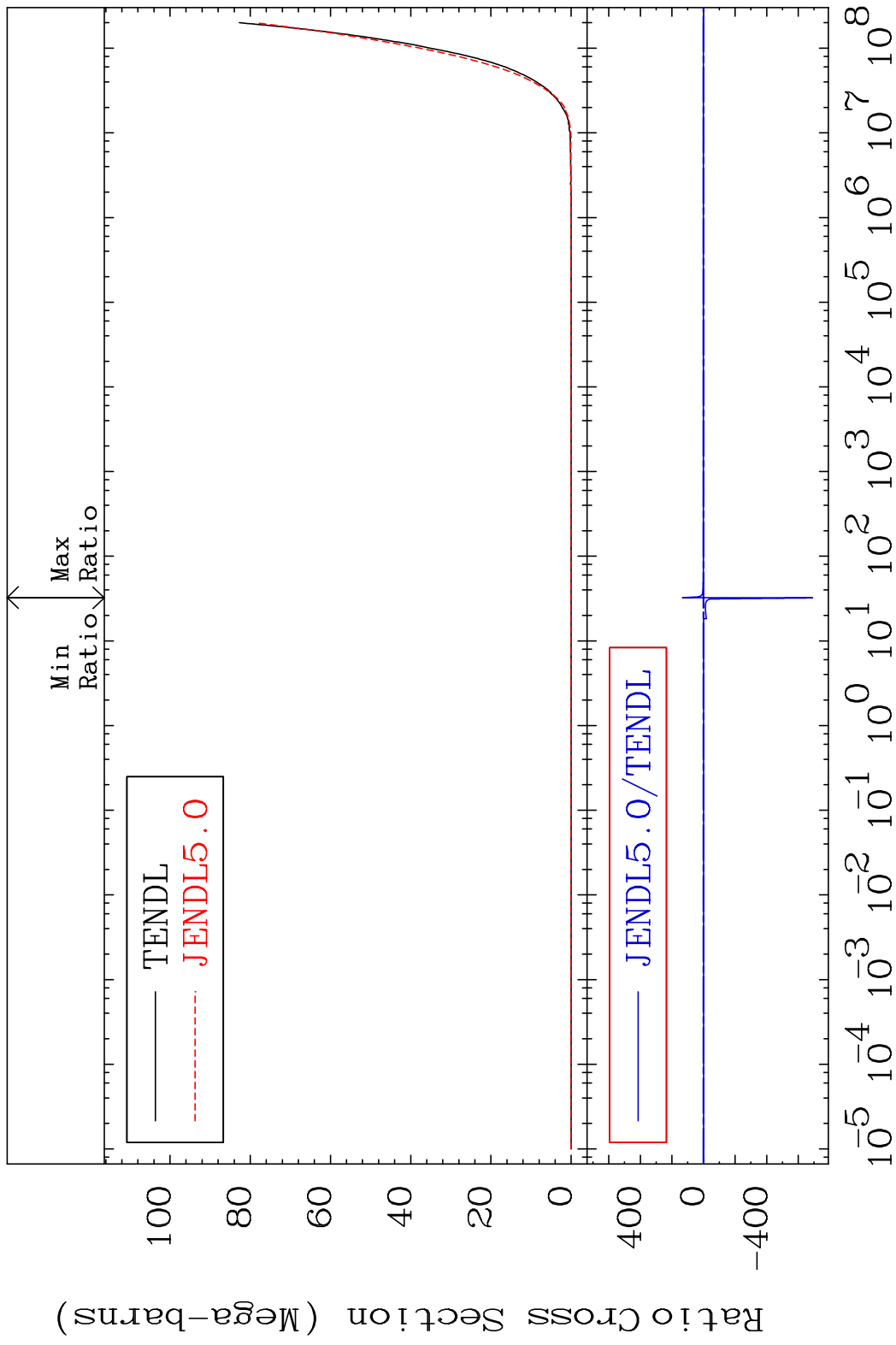


34

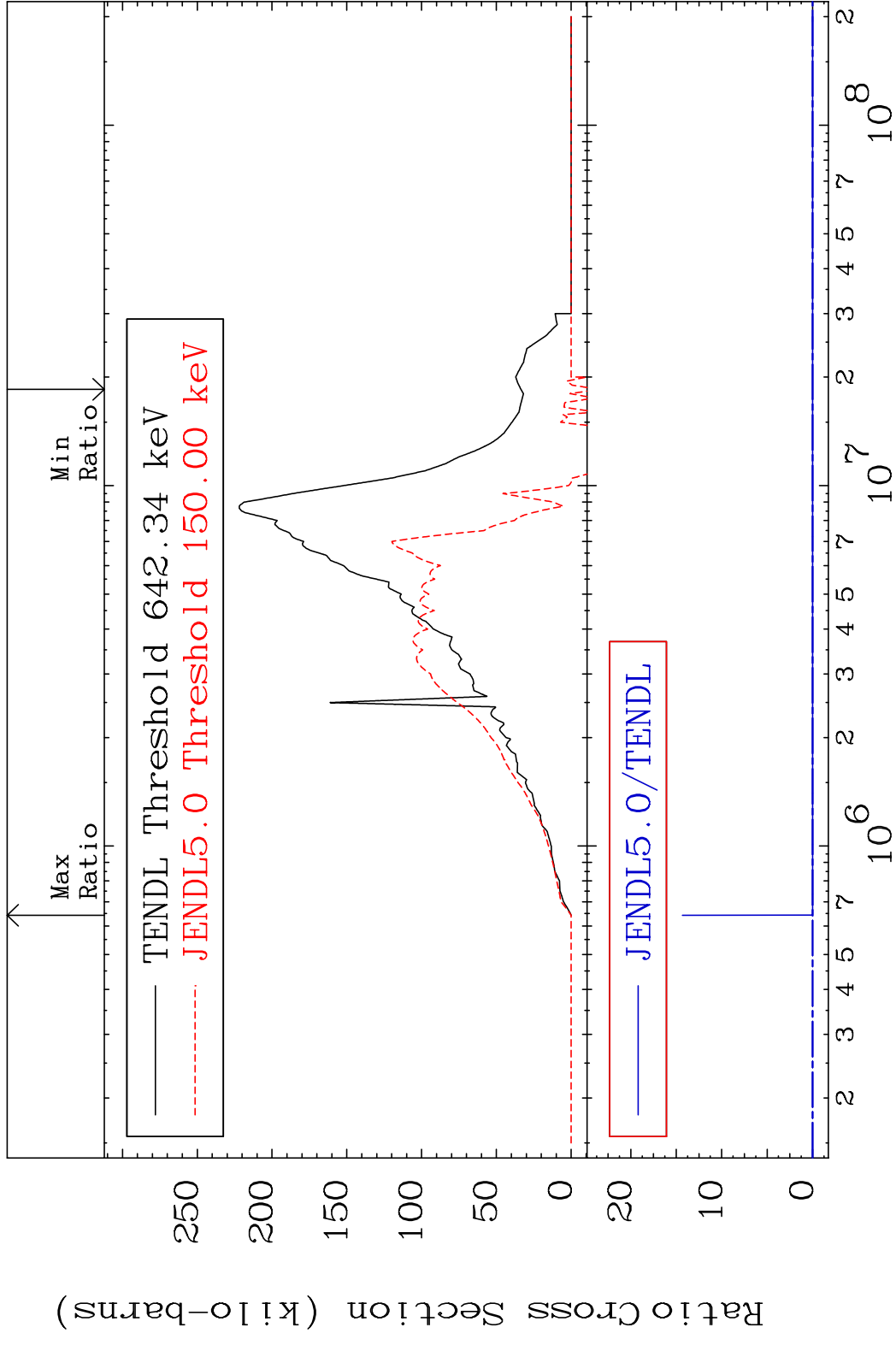
Incident Energy (eV)

64-Gd-150

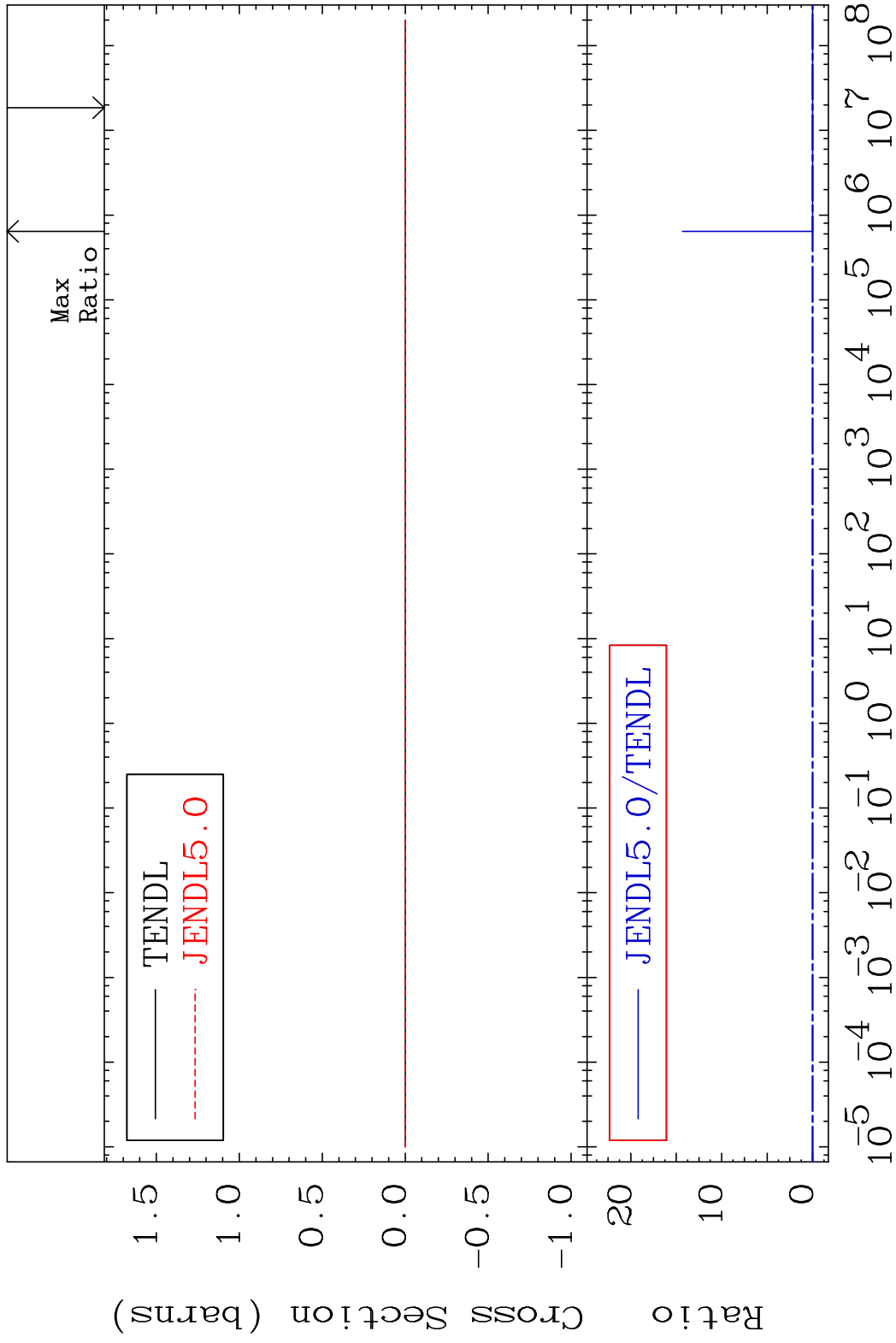
MAT 6419 Kerma non-elastic (all but mt2) 64-Gd-150
Cross Section -9999. To 9999. %



MAT 6419 Kerma inelastic (mt51-91) 64-Gd-150
 Cross Section -156.1 To 9999. %

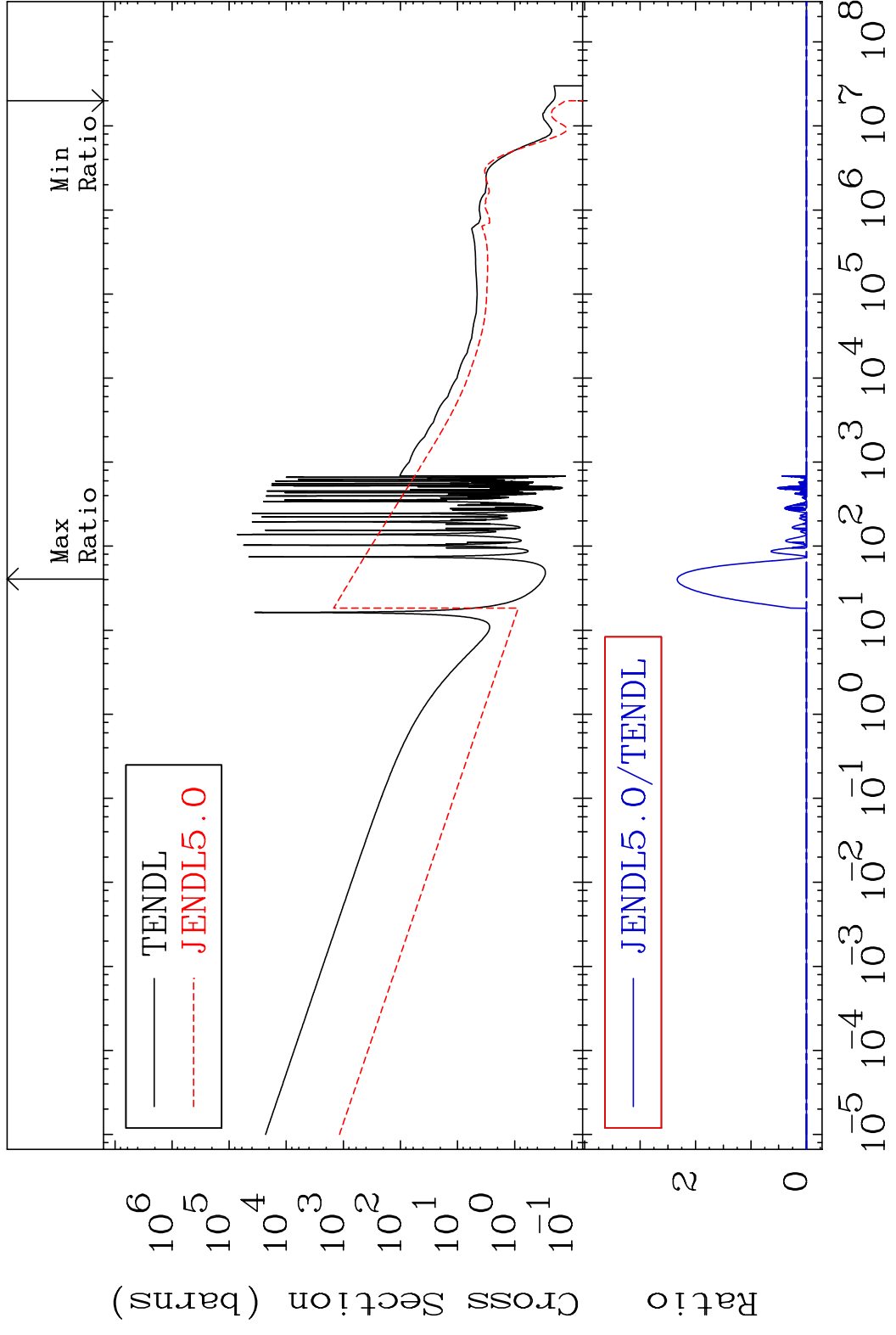


MAT 6419 Kerma fission (mt18 or mt19-20-21-38) 64-Gd-150
 Cross Section -156.1 To 9999. %

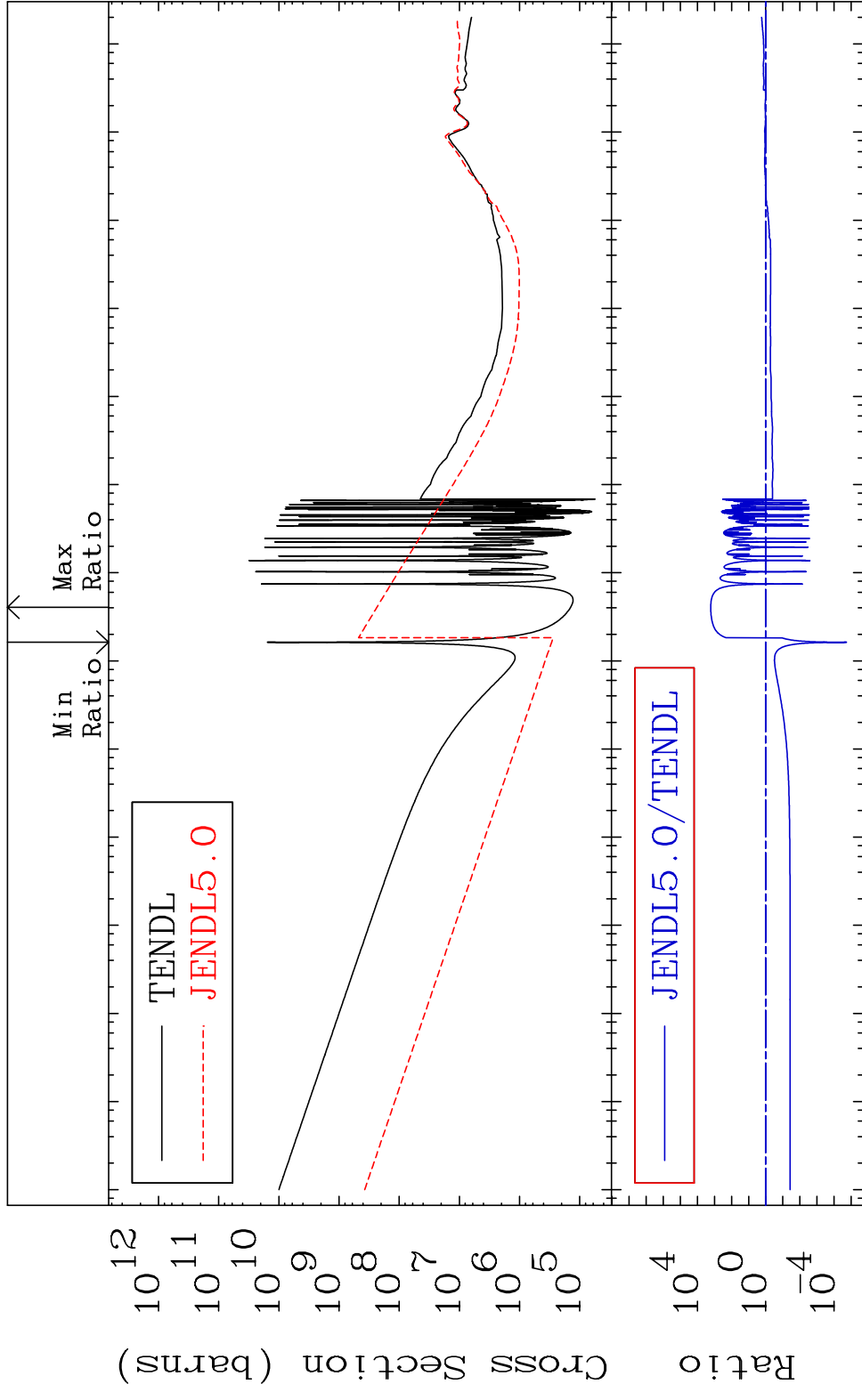


MAT 6419

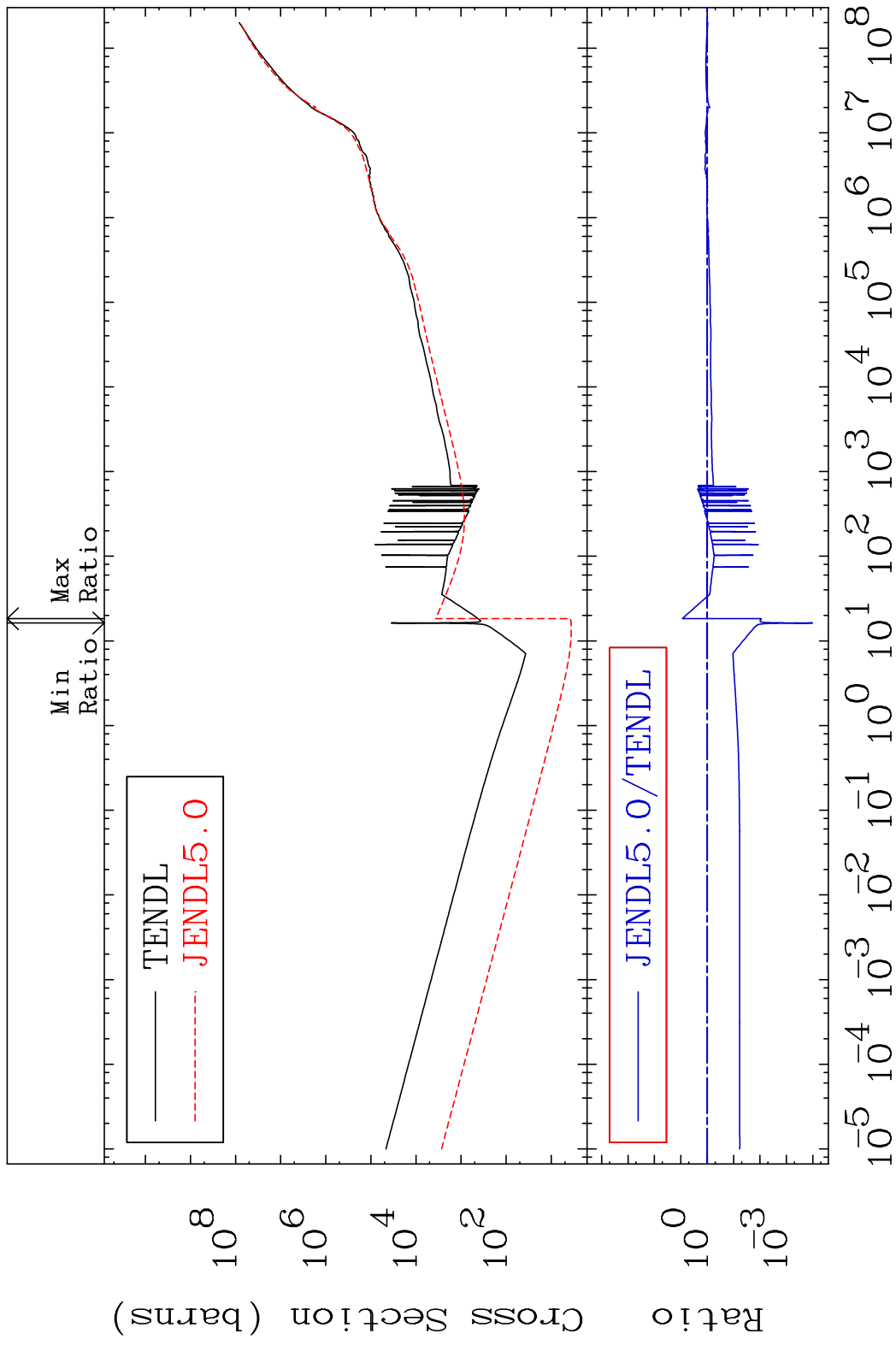
Kerma capture (mt102) 64-Gd-150
Cross Section -100.0 To 9999. %



MAT 6419 Total photon (eV-barns) 64-Gd-150
 Cross Section -100.0 To 9999. %

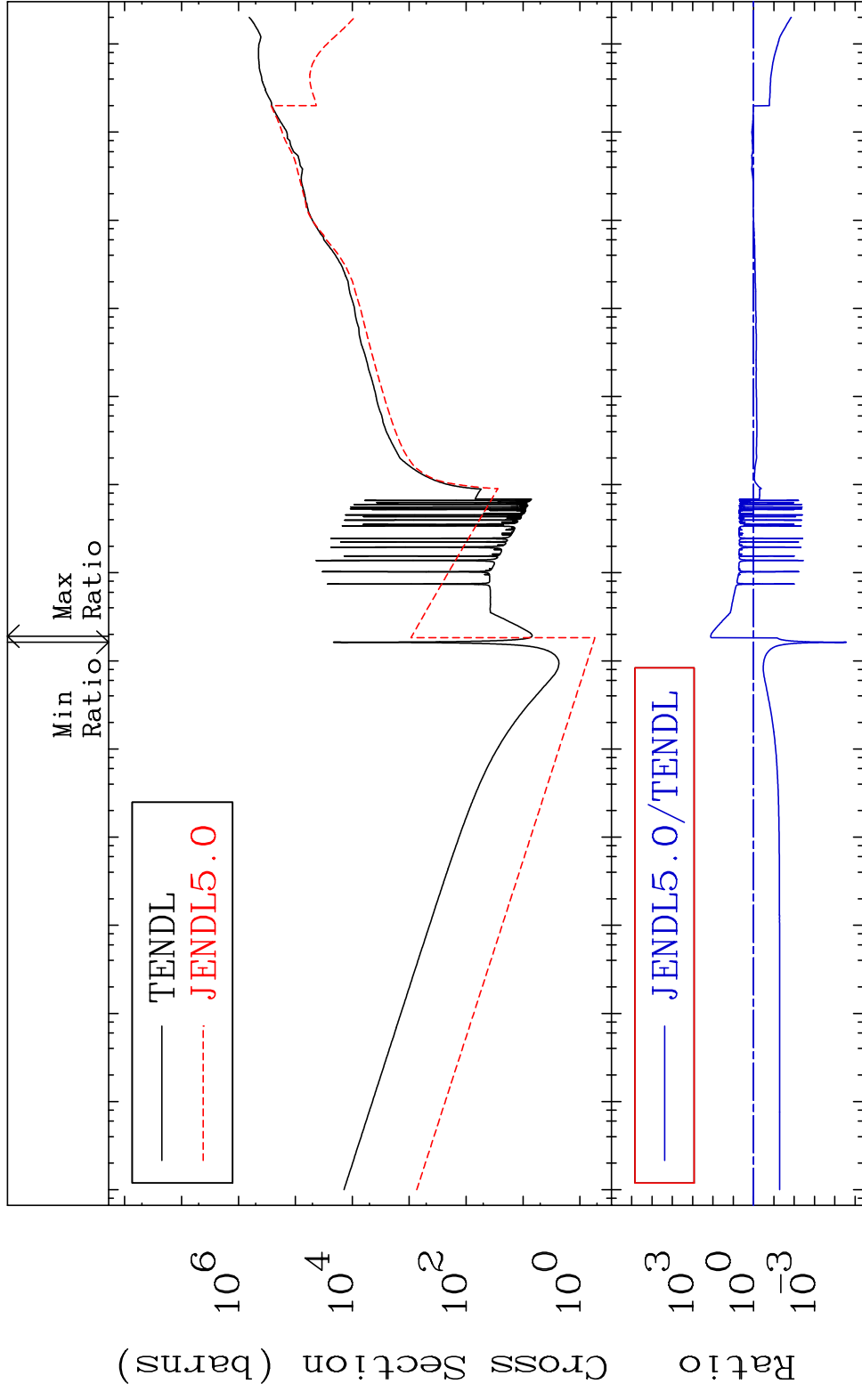


MAT 6419 Total kinematic kerma (high limit) 64-Gd-150
Cross Section -99.99 To 775.6 %



40 Incident Energy (eV) 64-Gd-150

MAT 6419 Dpa total (eV-barns) 64-Gd-150
 Cross Section -100.0 To 9999. %



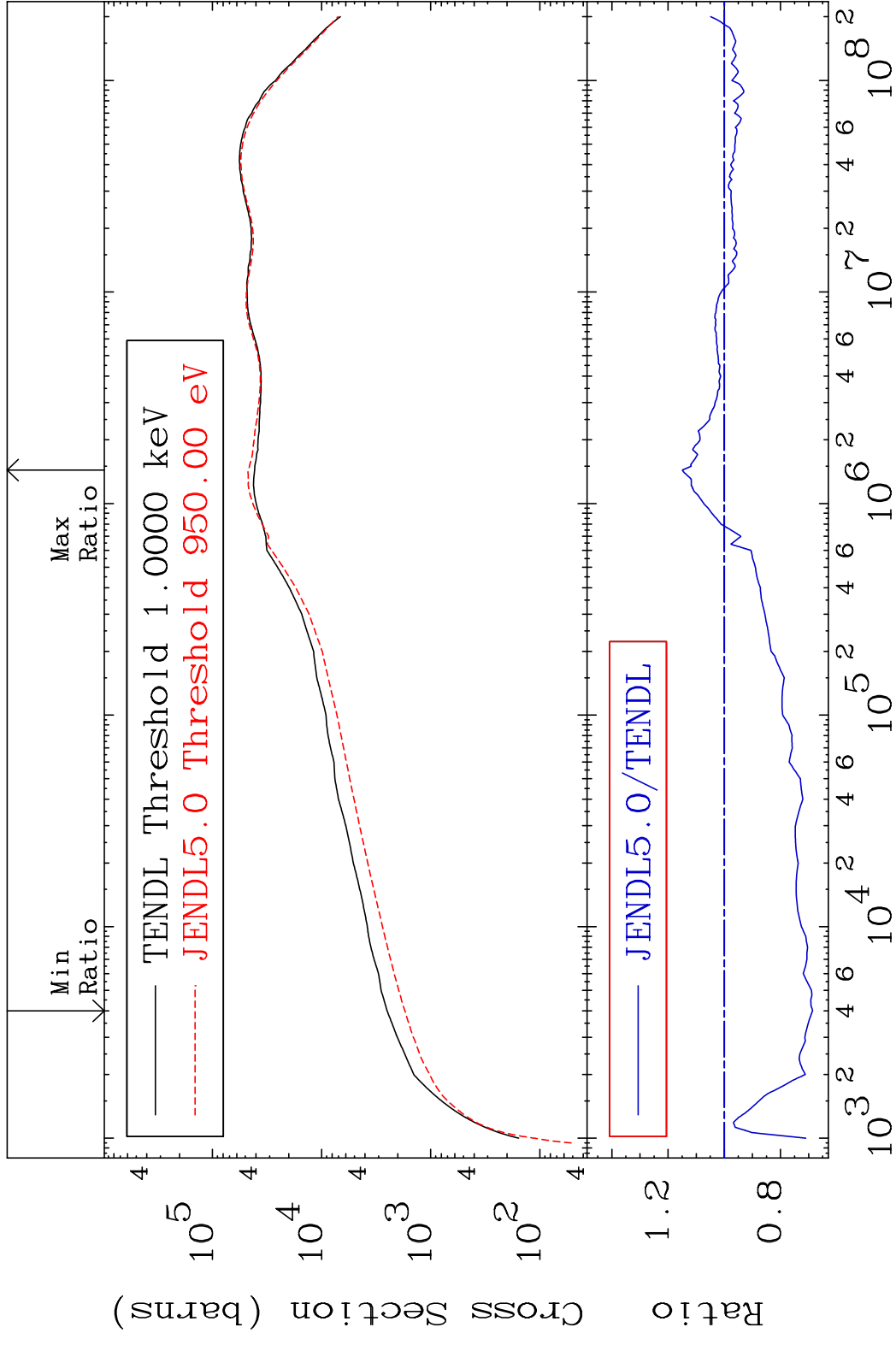
41 Incident Energy (eV) 64-Gd-150

MAT 6419

Dpa elastic (mt2)

64-Gd-150

Cross Section -31.40 To 14.93 %

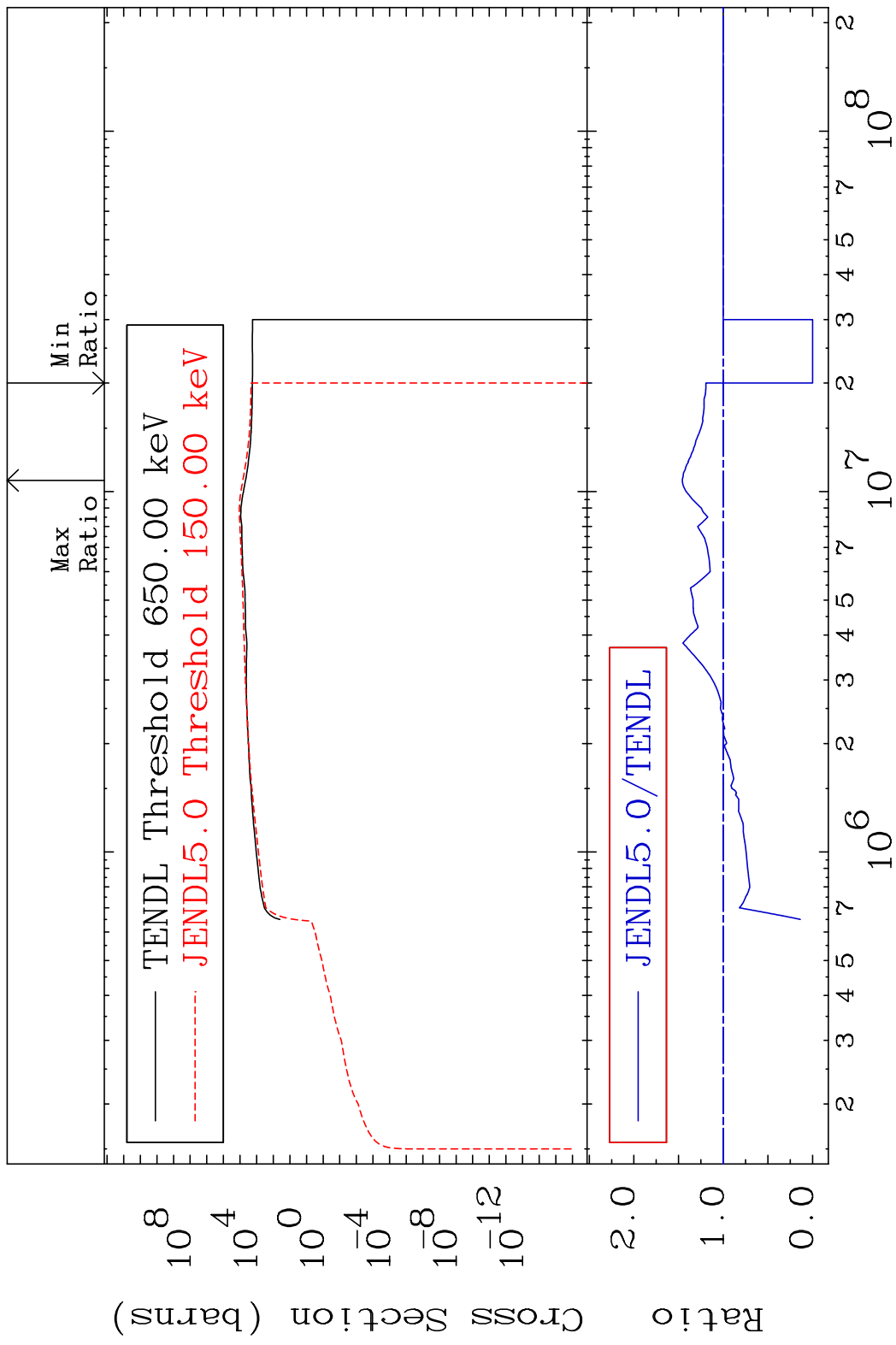


42

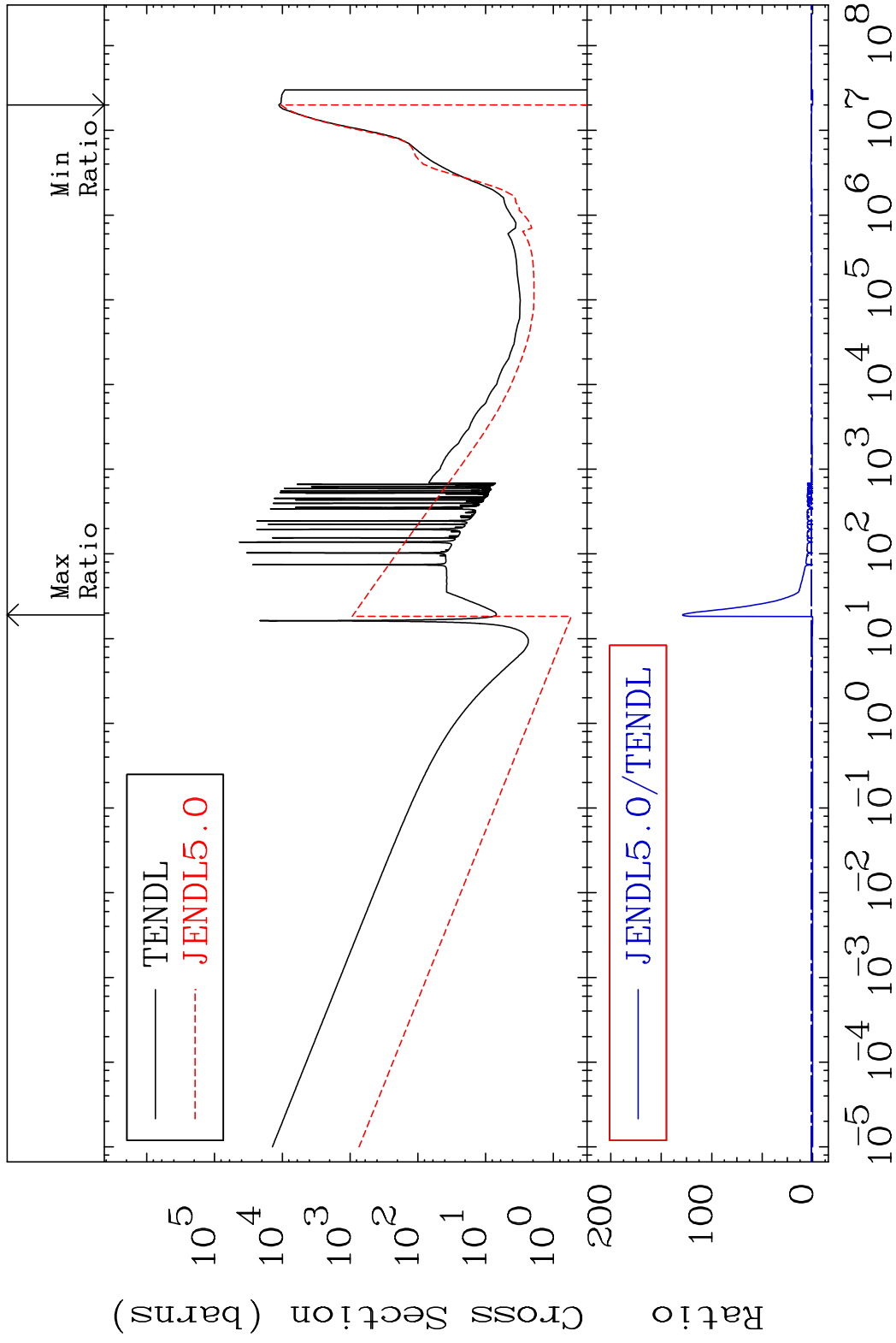
Incident Energy (eV)

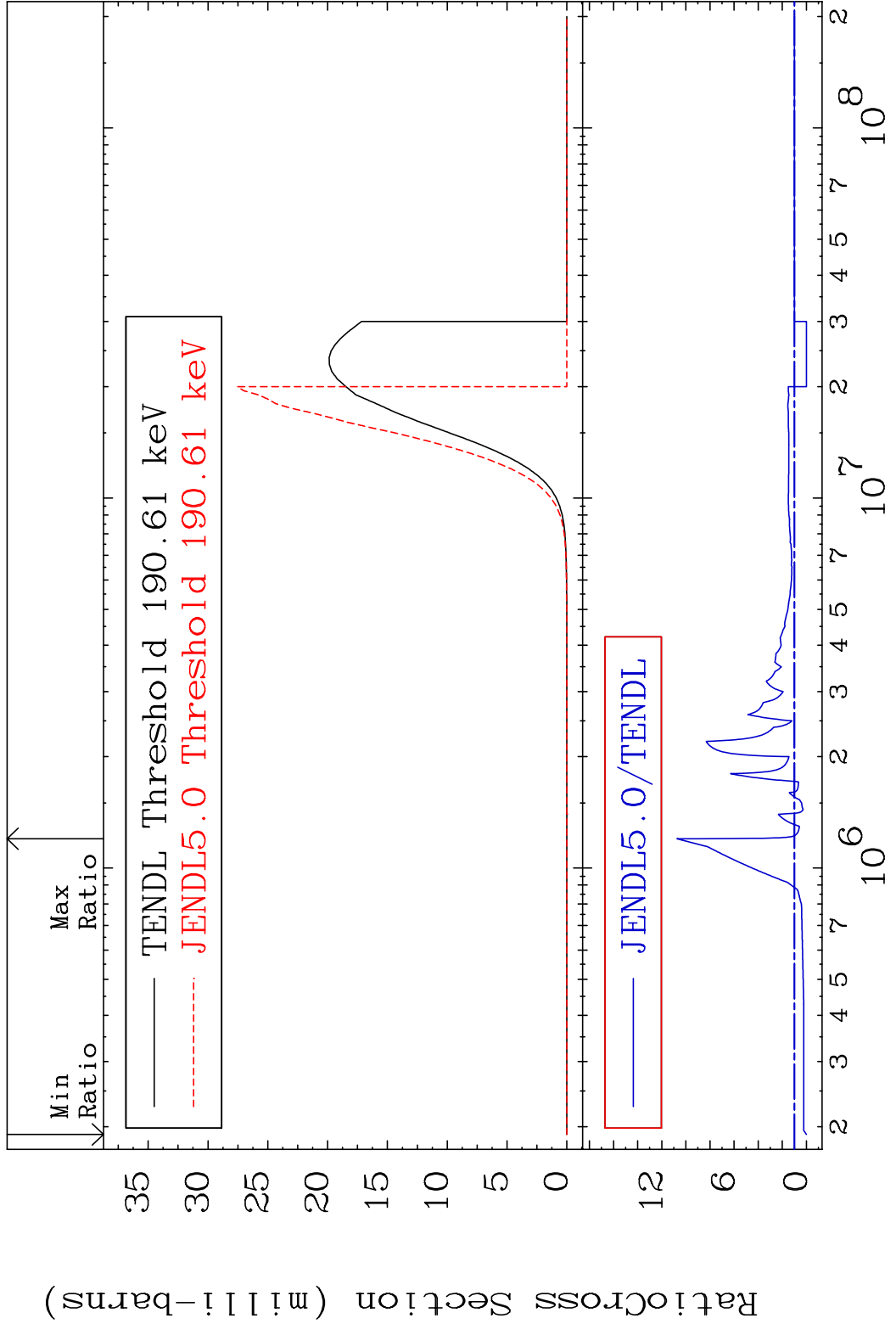
64-Gd-150

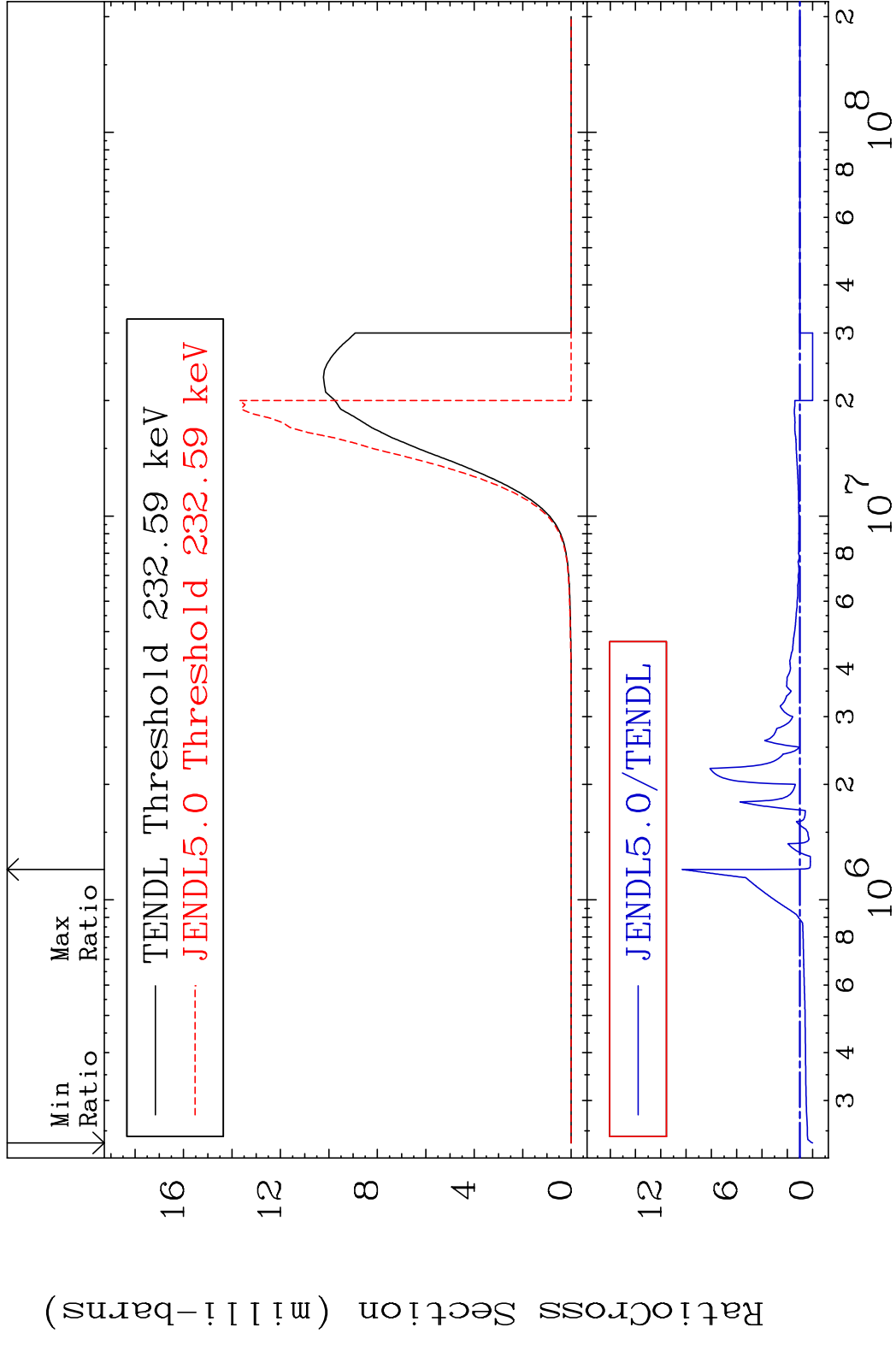
MAT 6419 Dpa inelastic (mt51-91) 64-Gd-150
 Cross Section -100.0 To 45.78 %



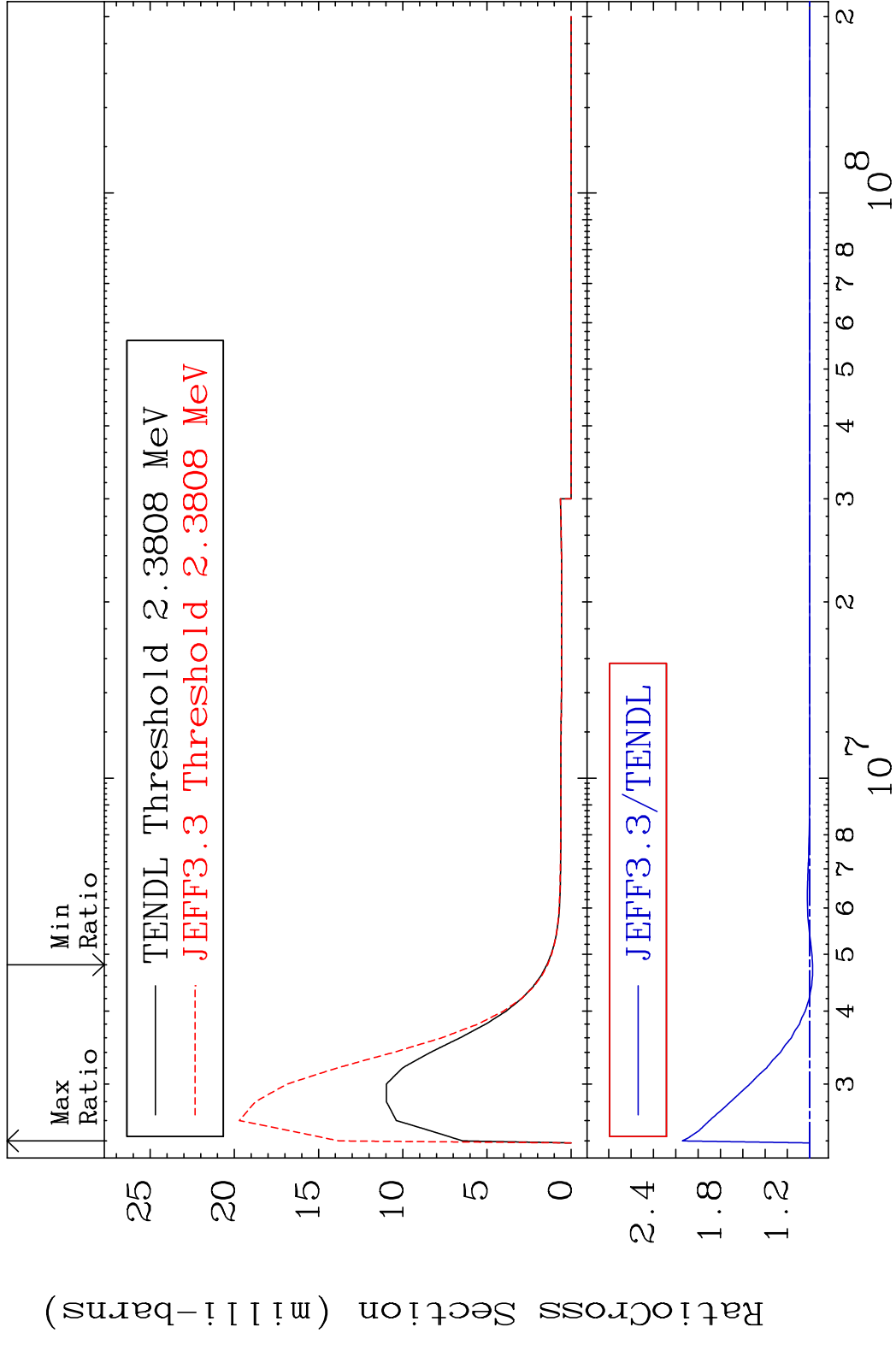
MAT 6419 Dpa disappearance (mt102 -120) 64-Gd-150
 Cross Section -100.0 To 9999. %



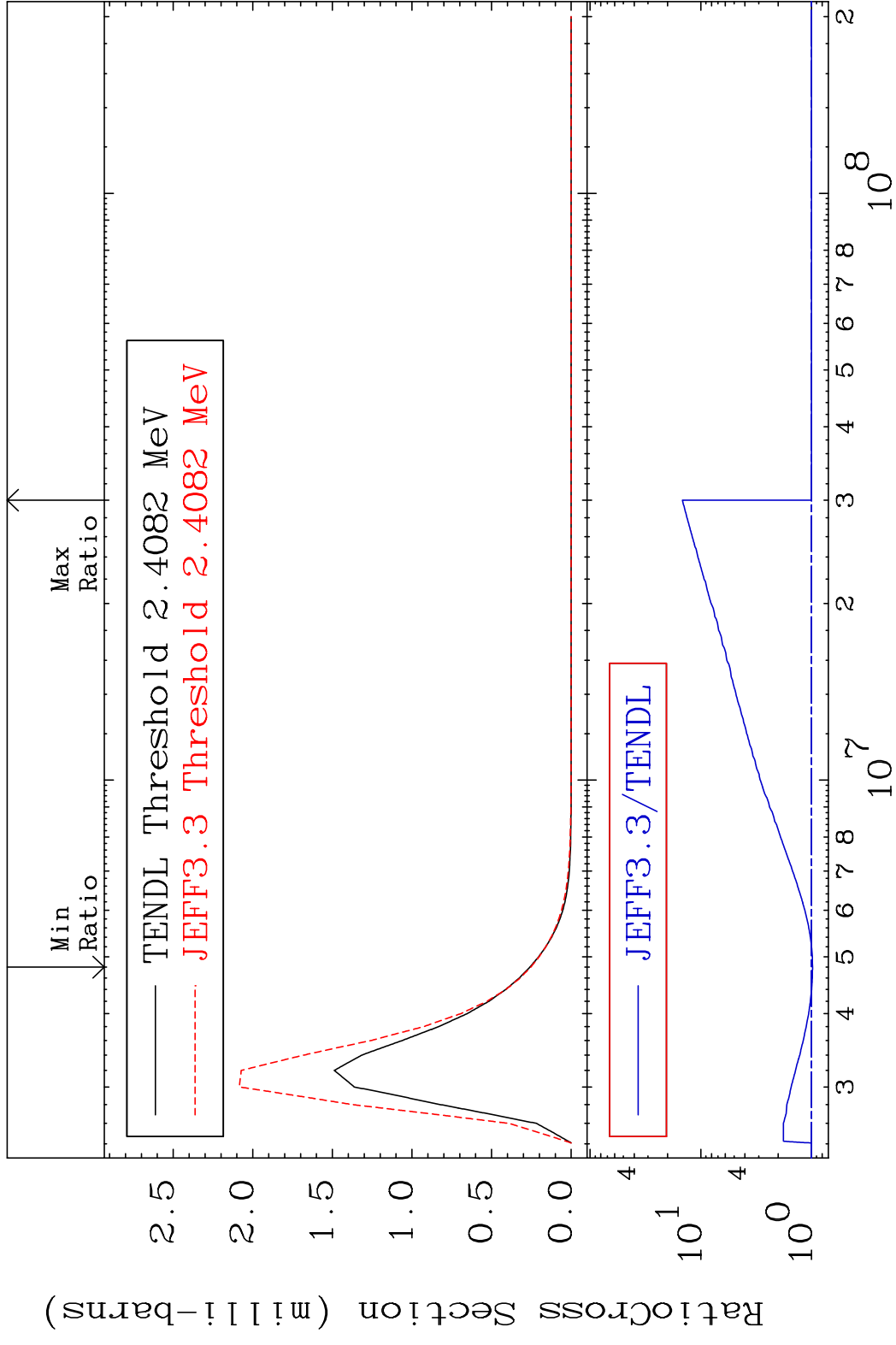




MAT 6419 MT= 77 (n,n') Level 64-Gd-150
 Cross Section -2.533 To 114.1 %



MAT 6419 MT= 78 (n, n') Level 64-Gd-150
 Cross Section -2.166 To 1368. %

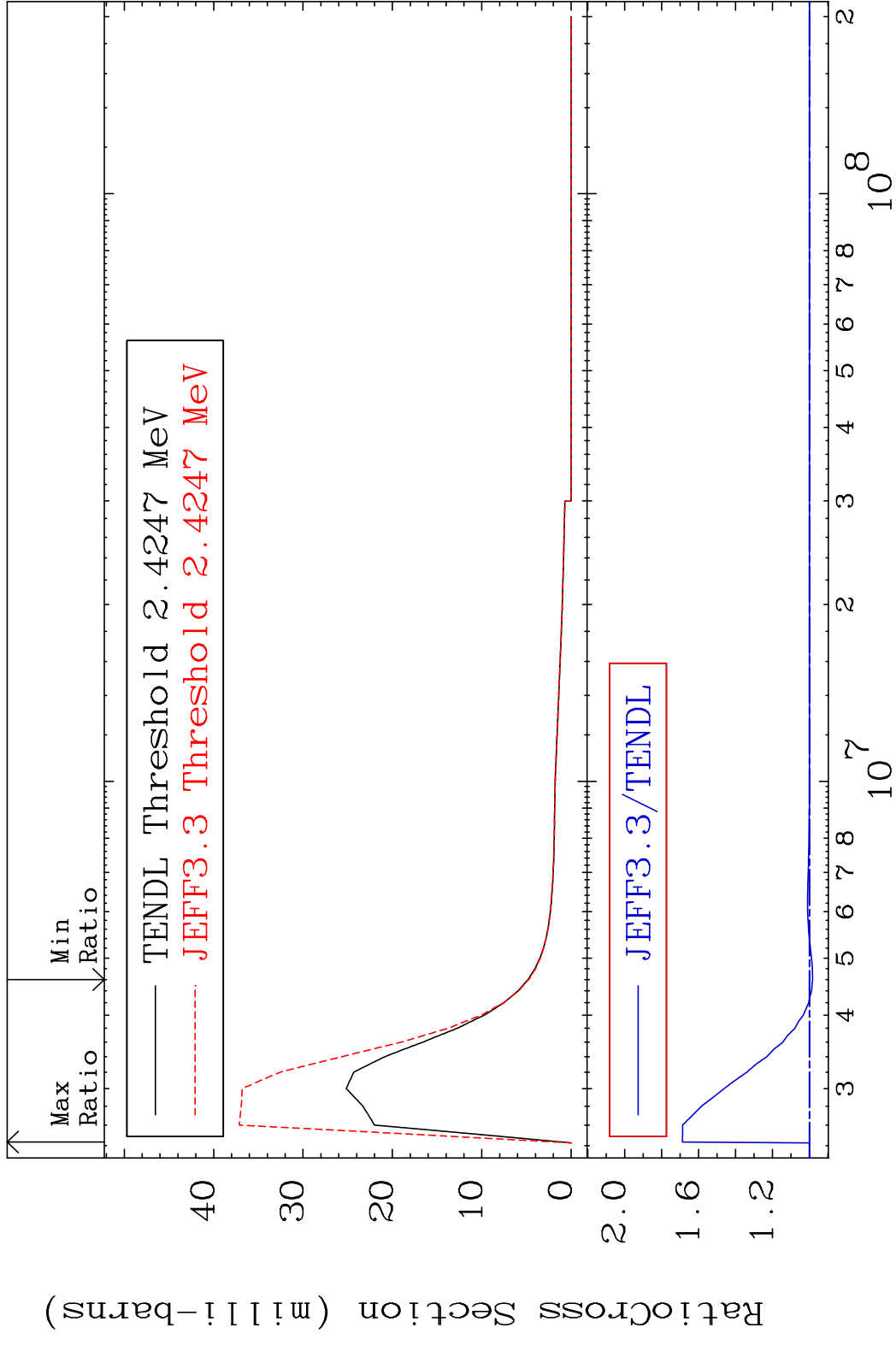


MAT 6419

MT= 79 (n, n') Level

64-Gd-150

Cross Section -1.666 To 68.83 %

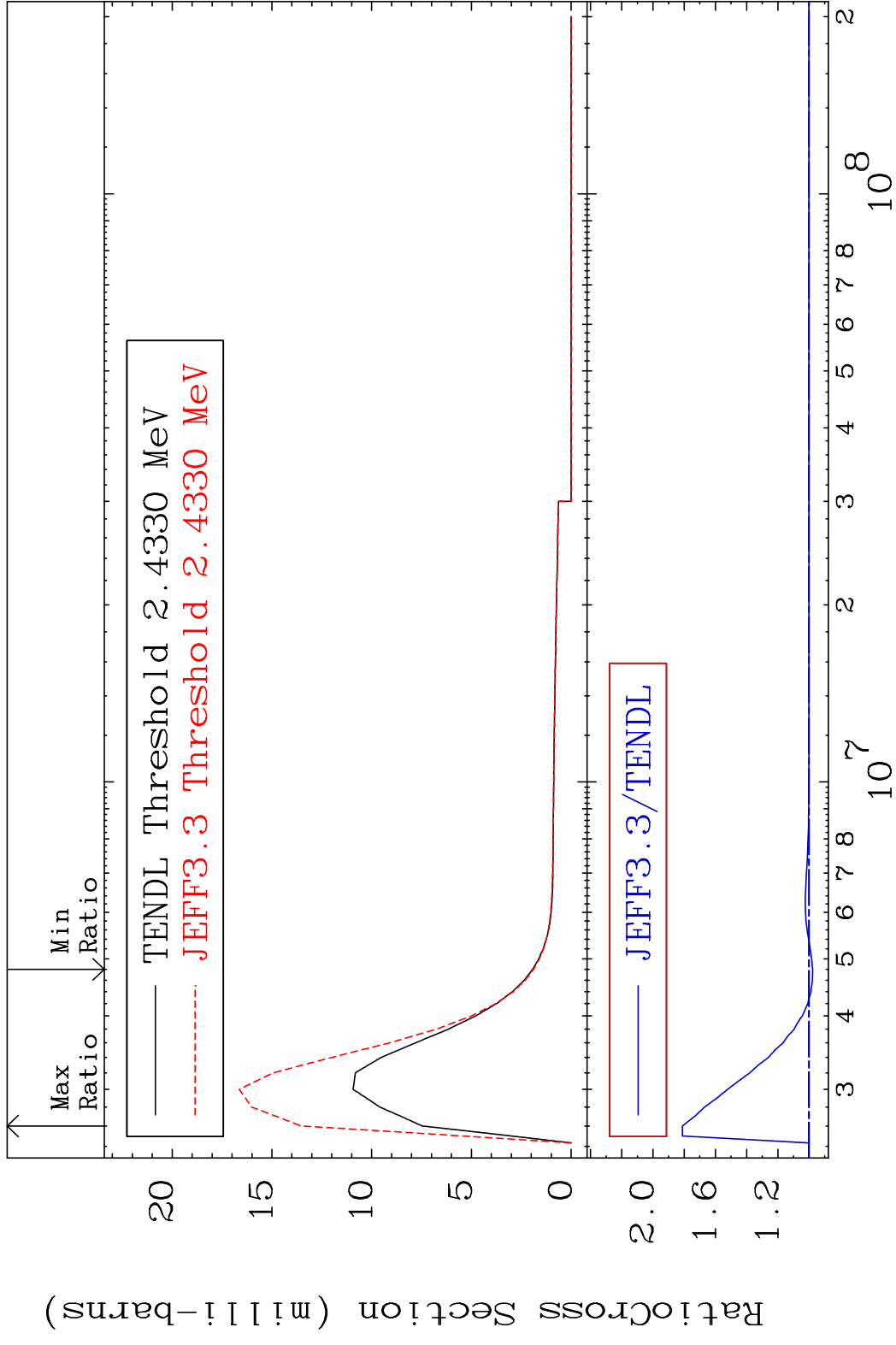


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Incident Energy (eV)

64-Gd-150

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

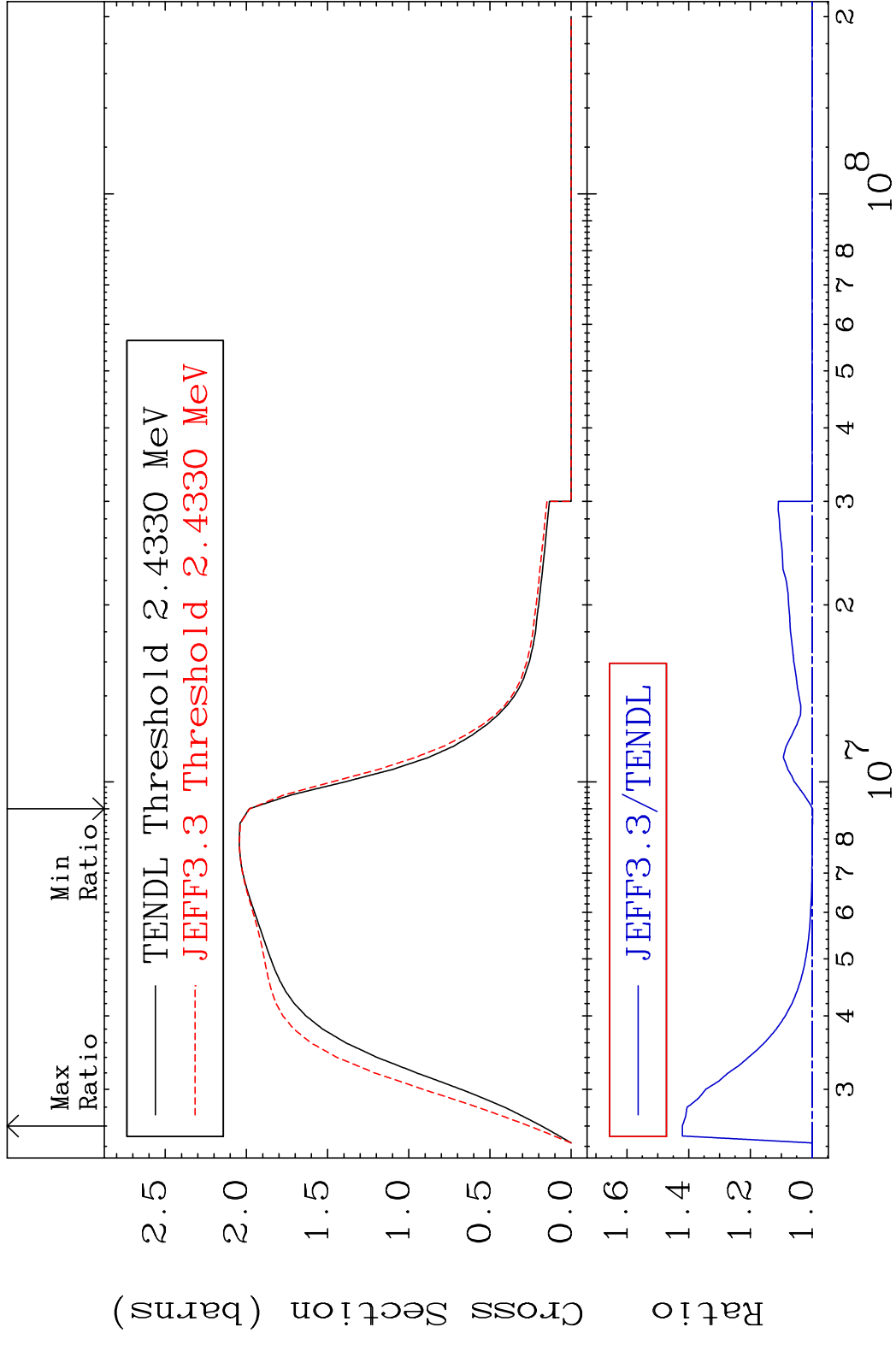


MAT 6419

(n,n') Continuum

64-Gd-150

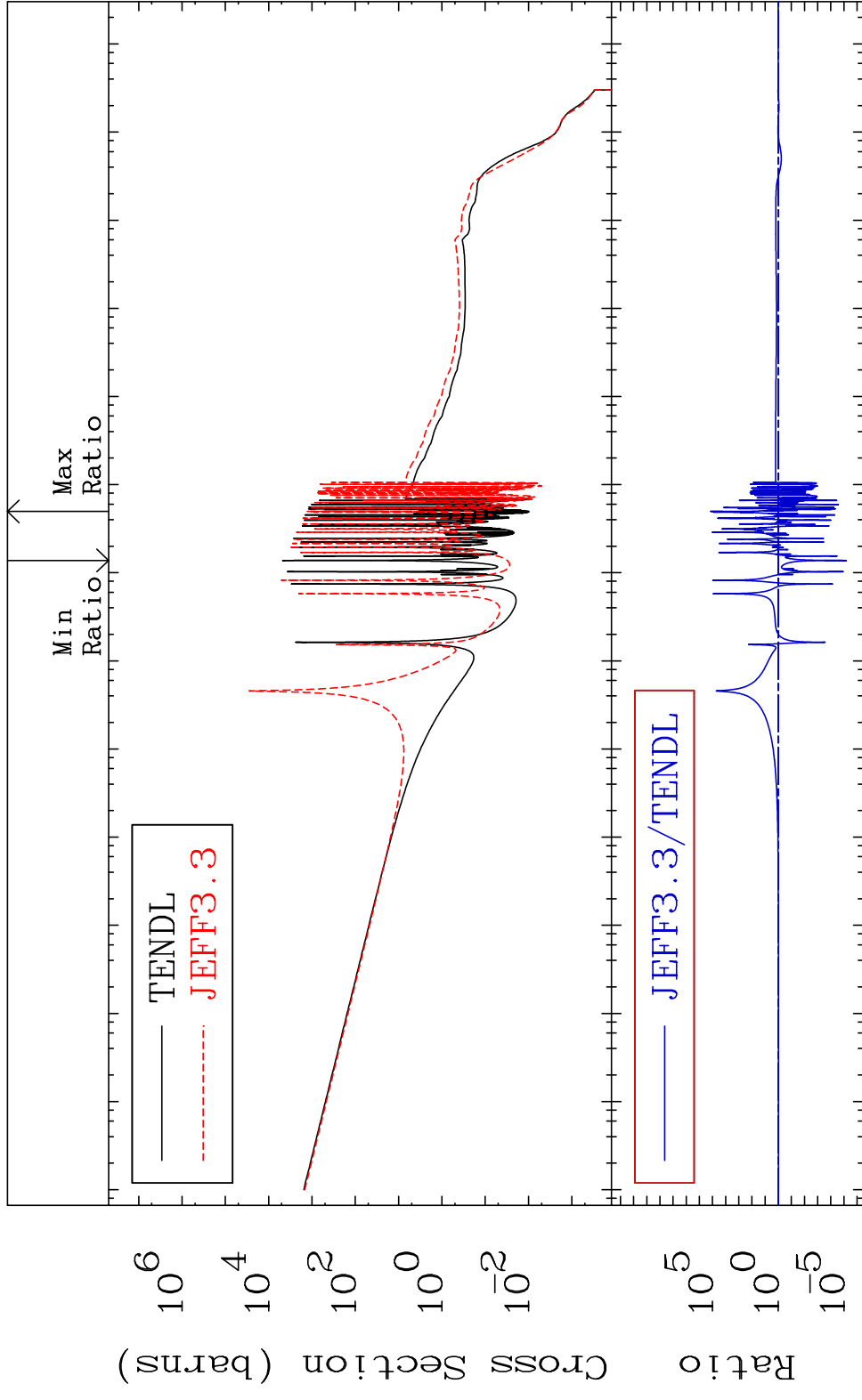
Cross Section -0.124 To 42.05 %

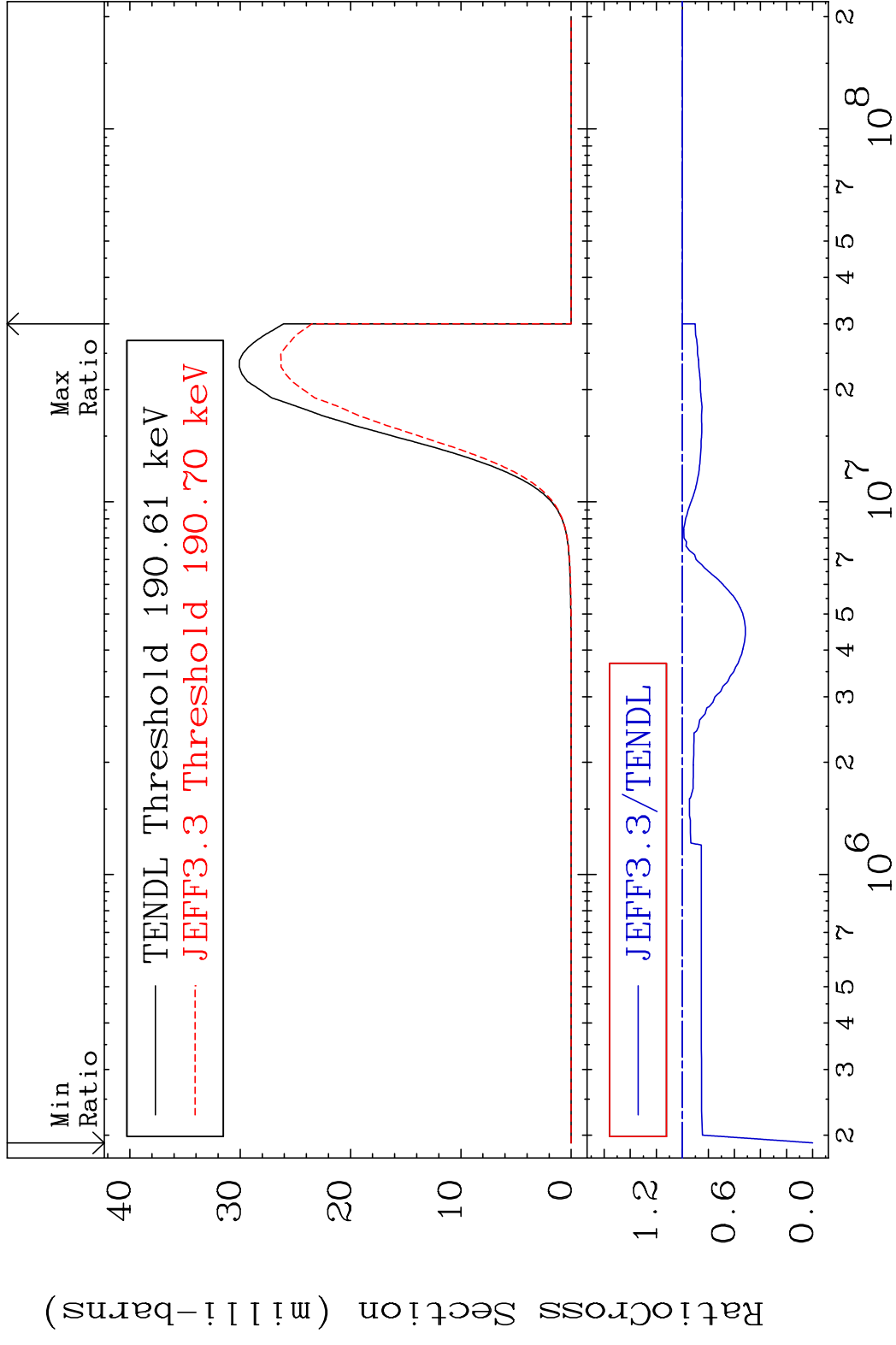


MAT 6419

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

64-Gd-150



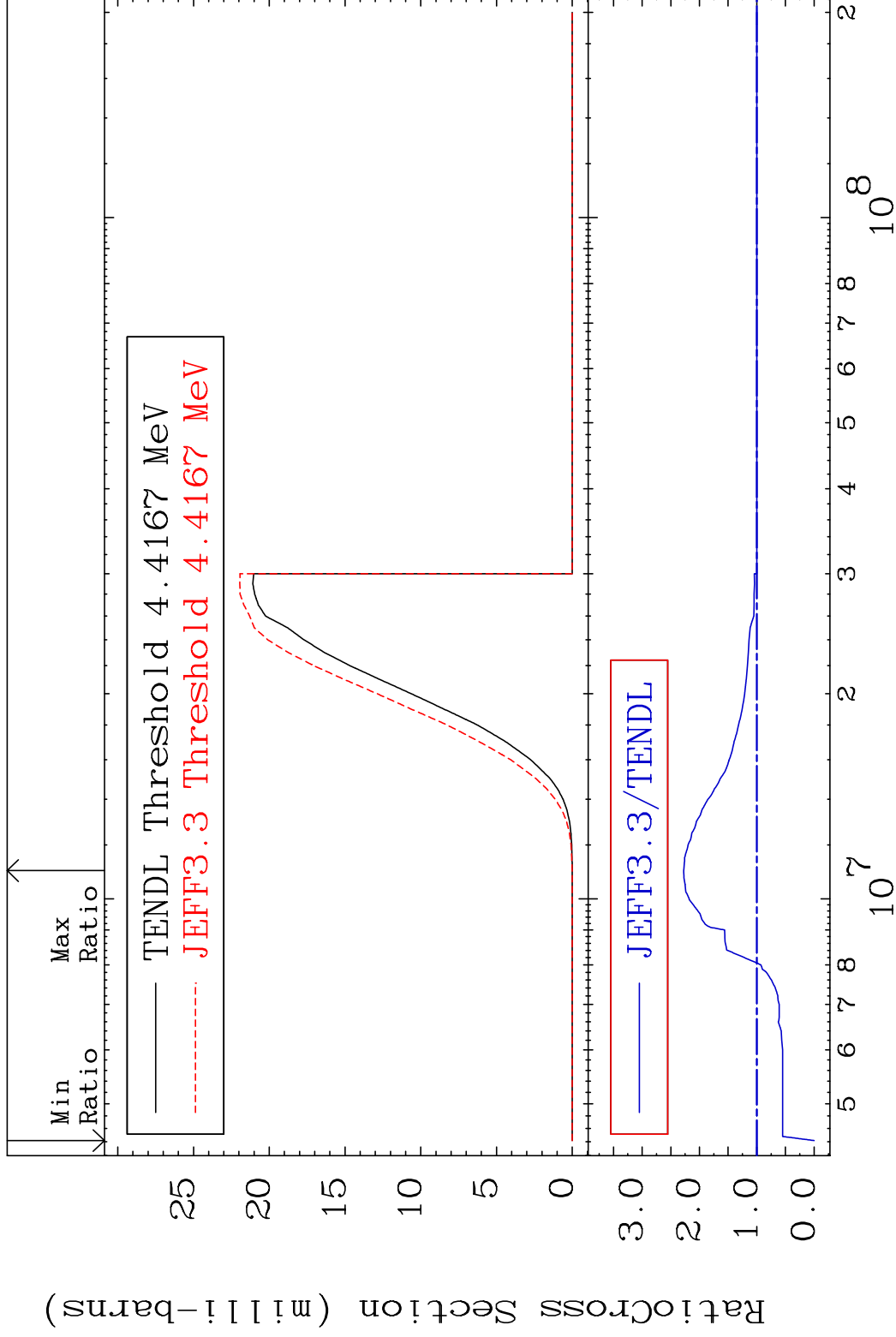


MAT 6419

(n,d)

64-Gd-150

Cross Section -100.0 To 127.6 %



54

Incident Energy (eV)

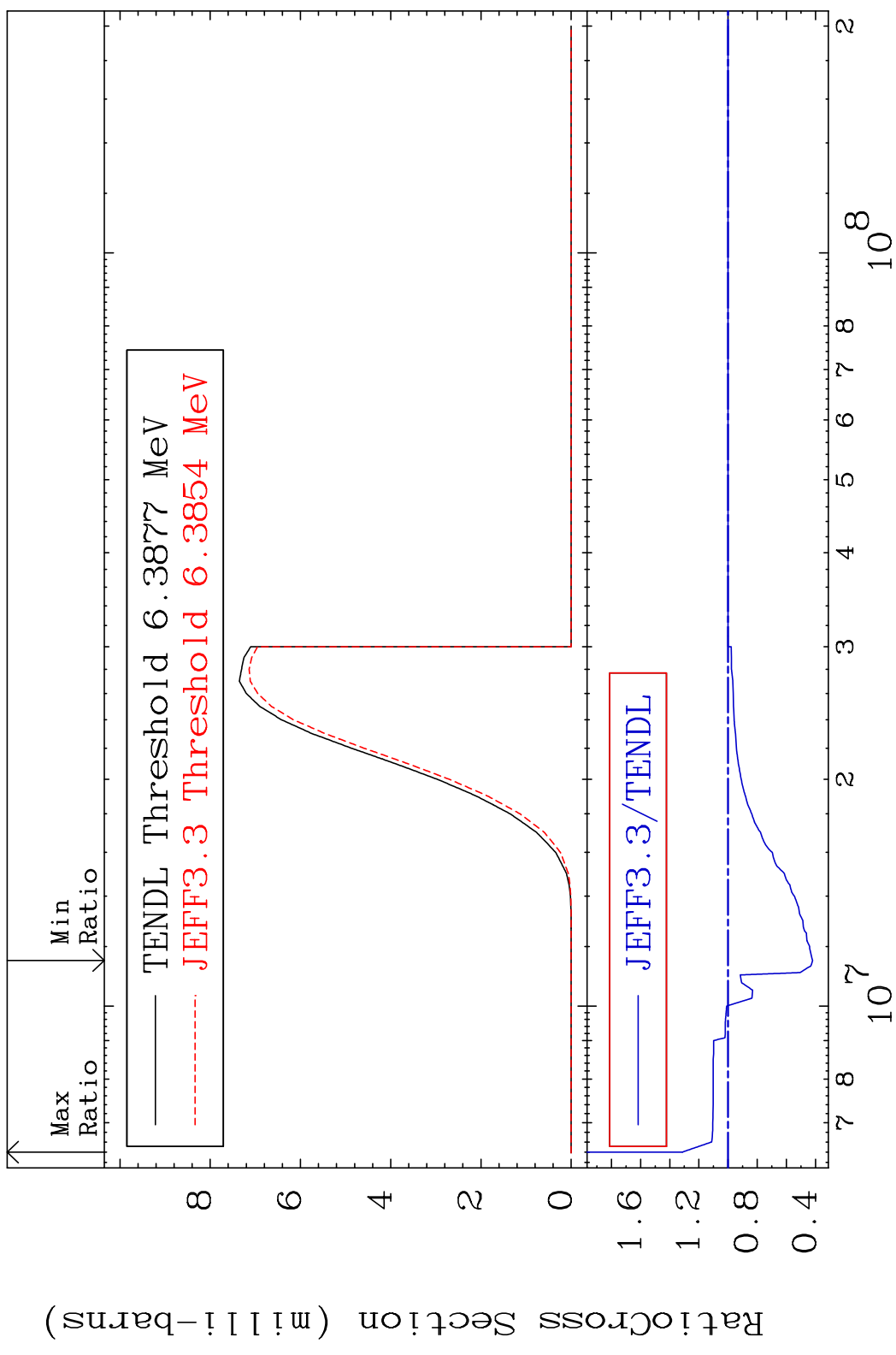
64-Gd-150

MAT 6419

(n, t)

64-Gd-150

Cross Section -57.95 To 31.35 %

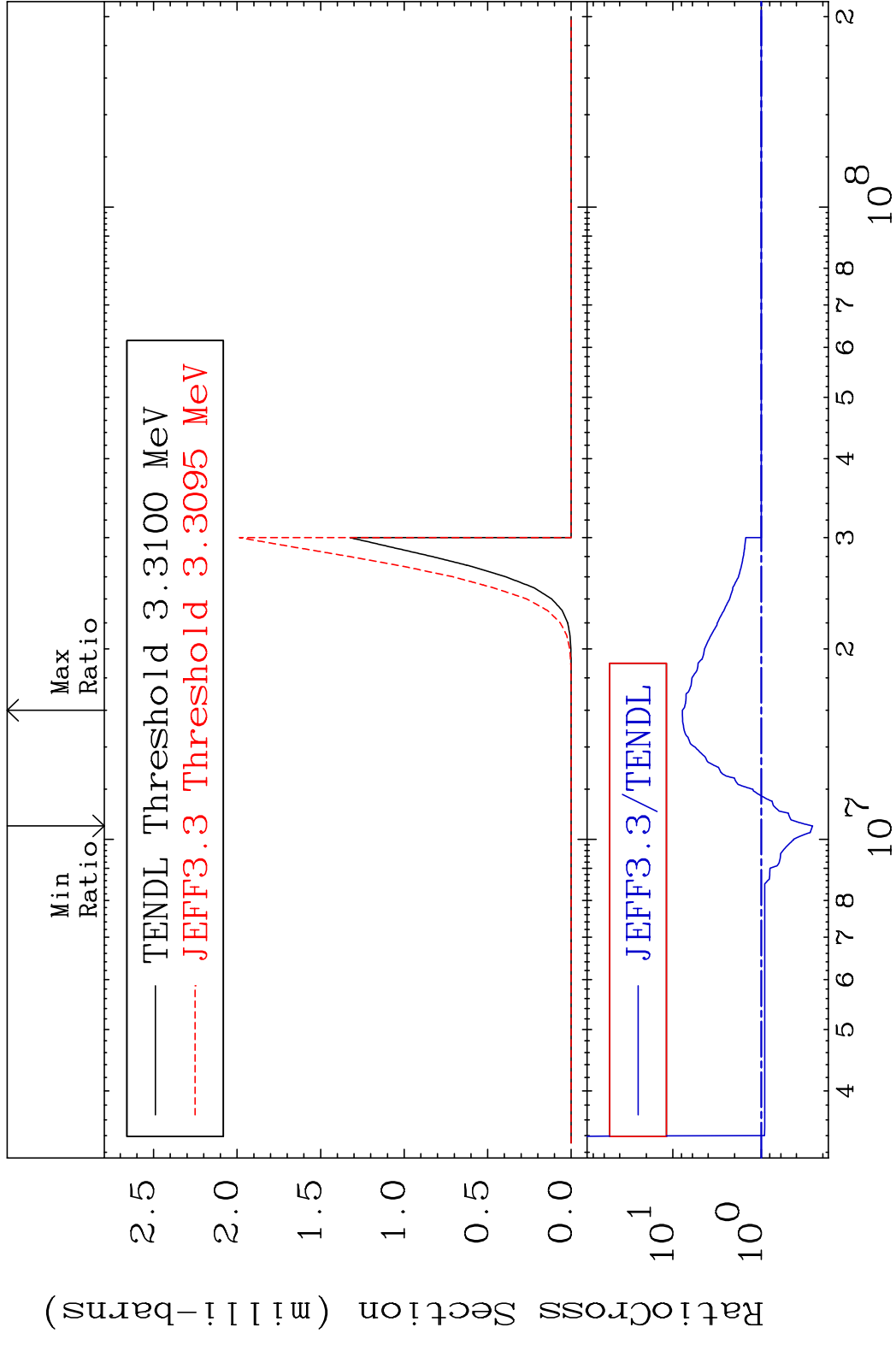


MAT 6419

(n, He-3)

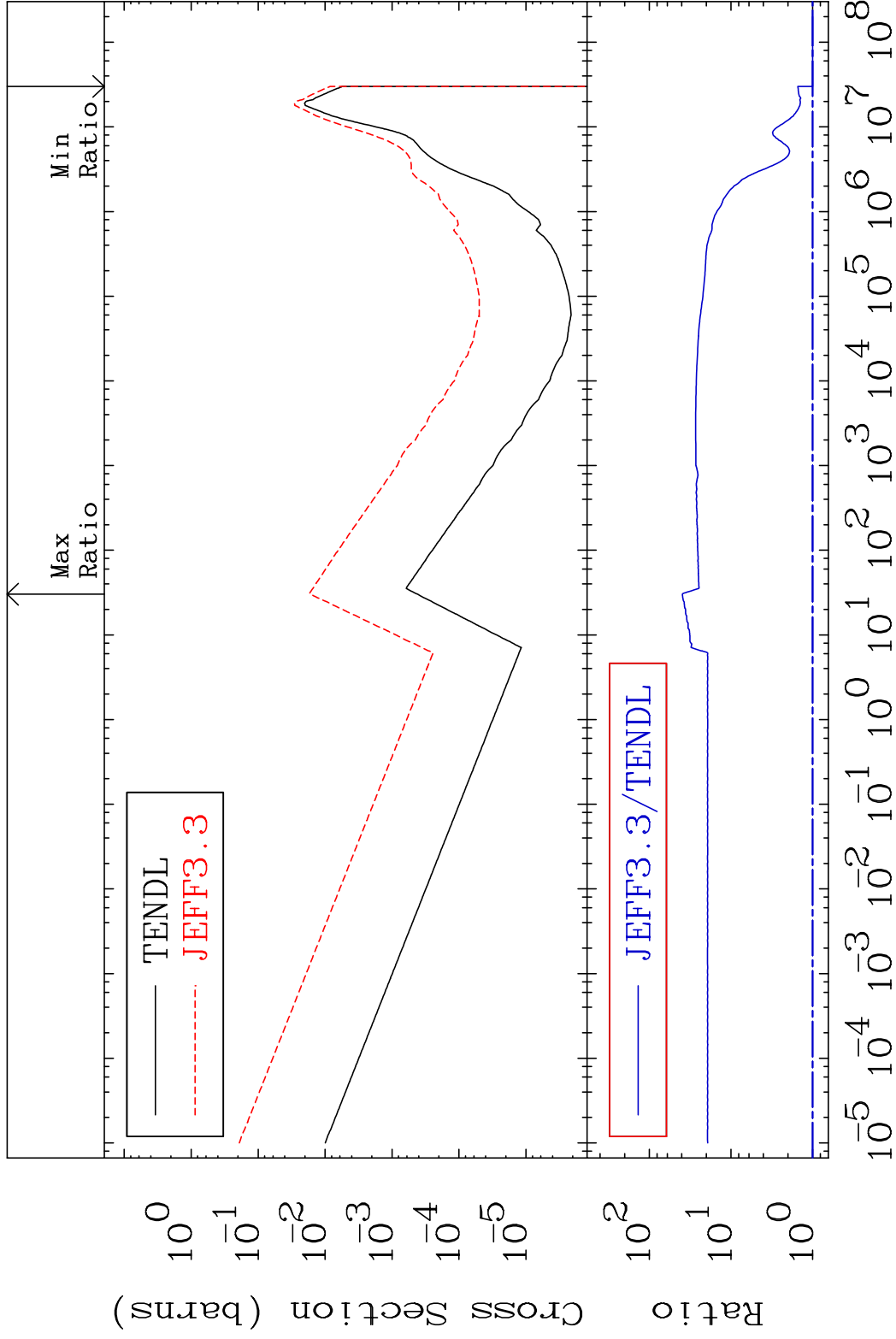
64-Gd-150

Cross Section -73.76 To 682.0 %



MAT 6419

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



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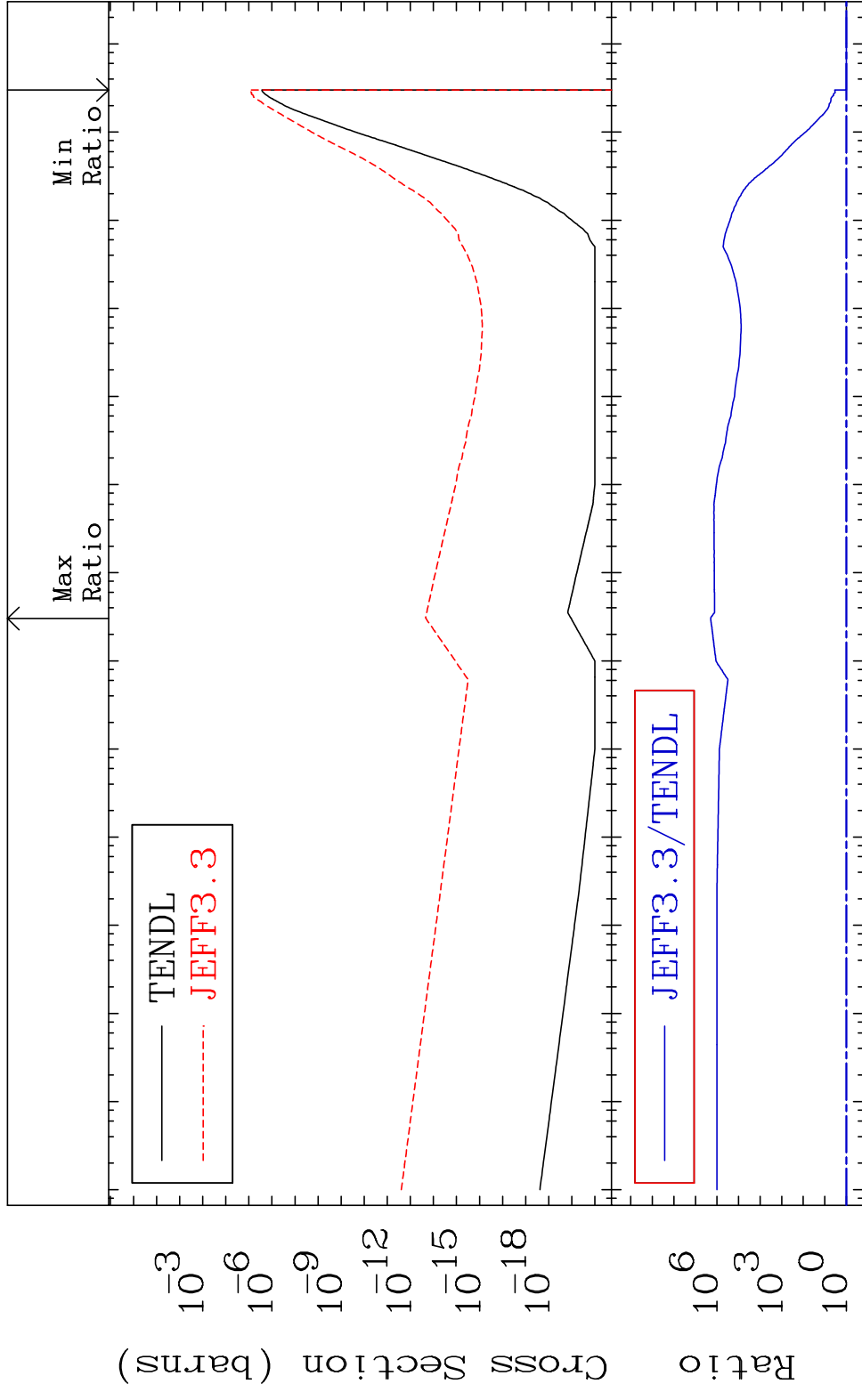
Incident Energy (eV) 64-Gd-150

MAT 6419

64-Gd-150

(n, 2α)

Cross Section 0.000 To 9999. %



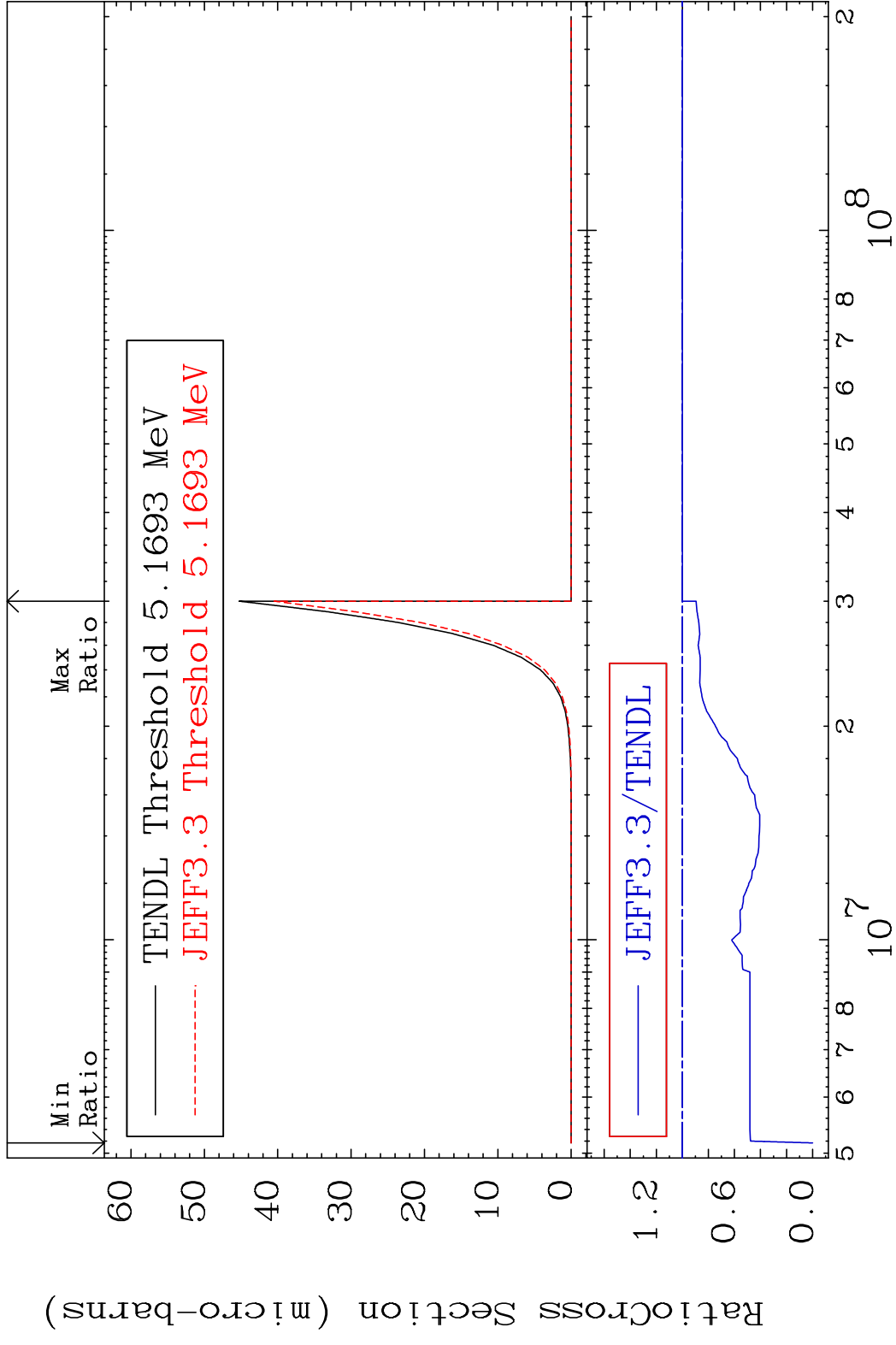
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

MAT 6419

(n,2p)

64-Gd-150

Cross Section -100.0 To 0.000 %



59

Incident Energy (eV)

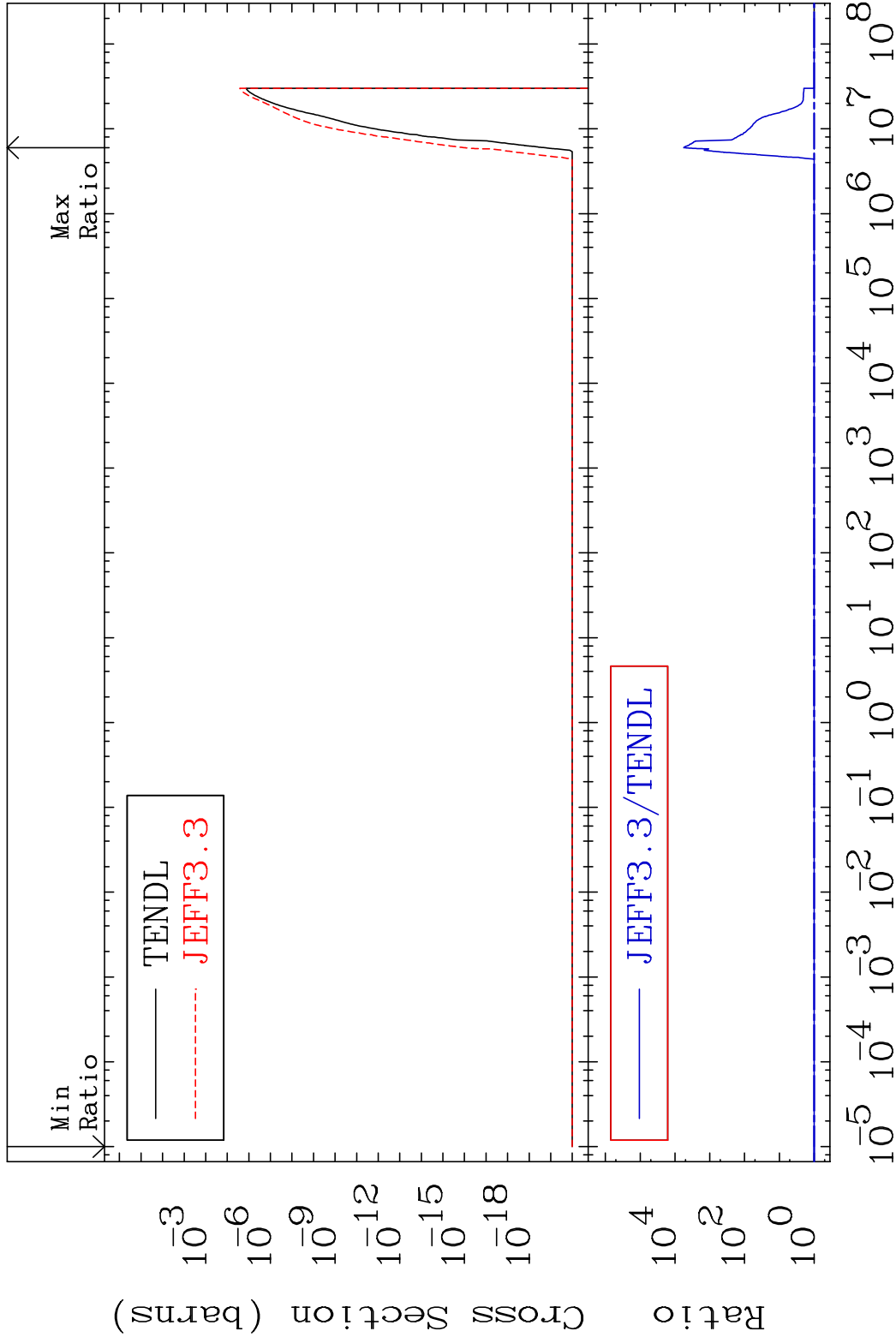
64-Gd-150

MAT 6419

(n,p) α

64-Gd-150

Cross Section 0.000 To 9999. %

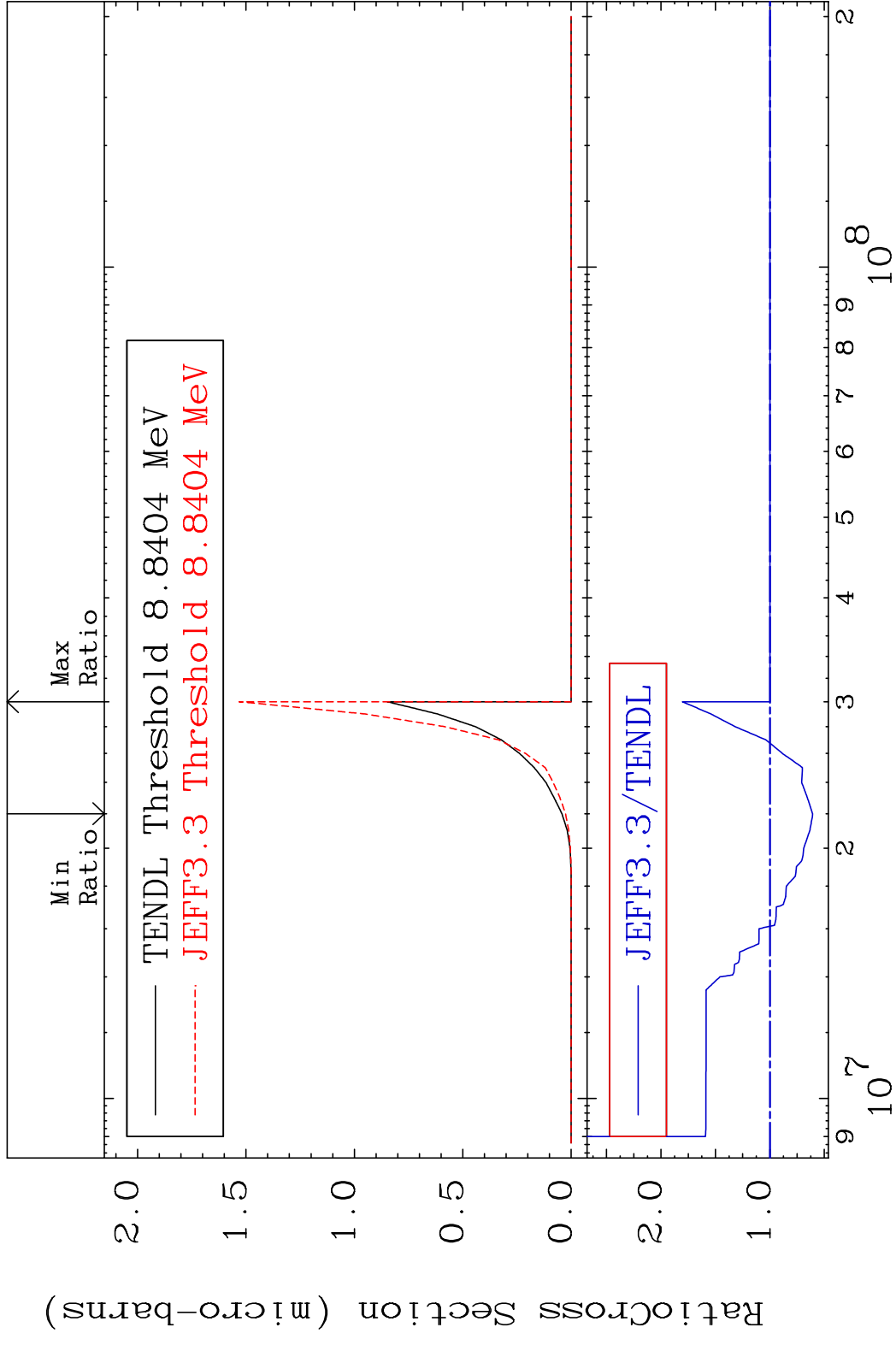


MAT 6419

(n,p) d

64-Gd-150

Cross Section -39.17 To 80.40 %



61

Incident Energy (eV)

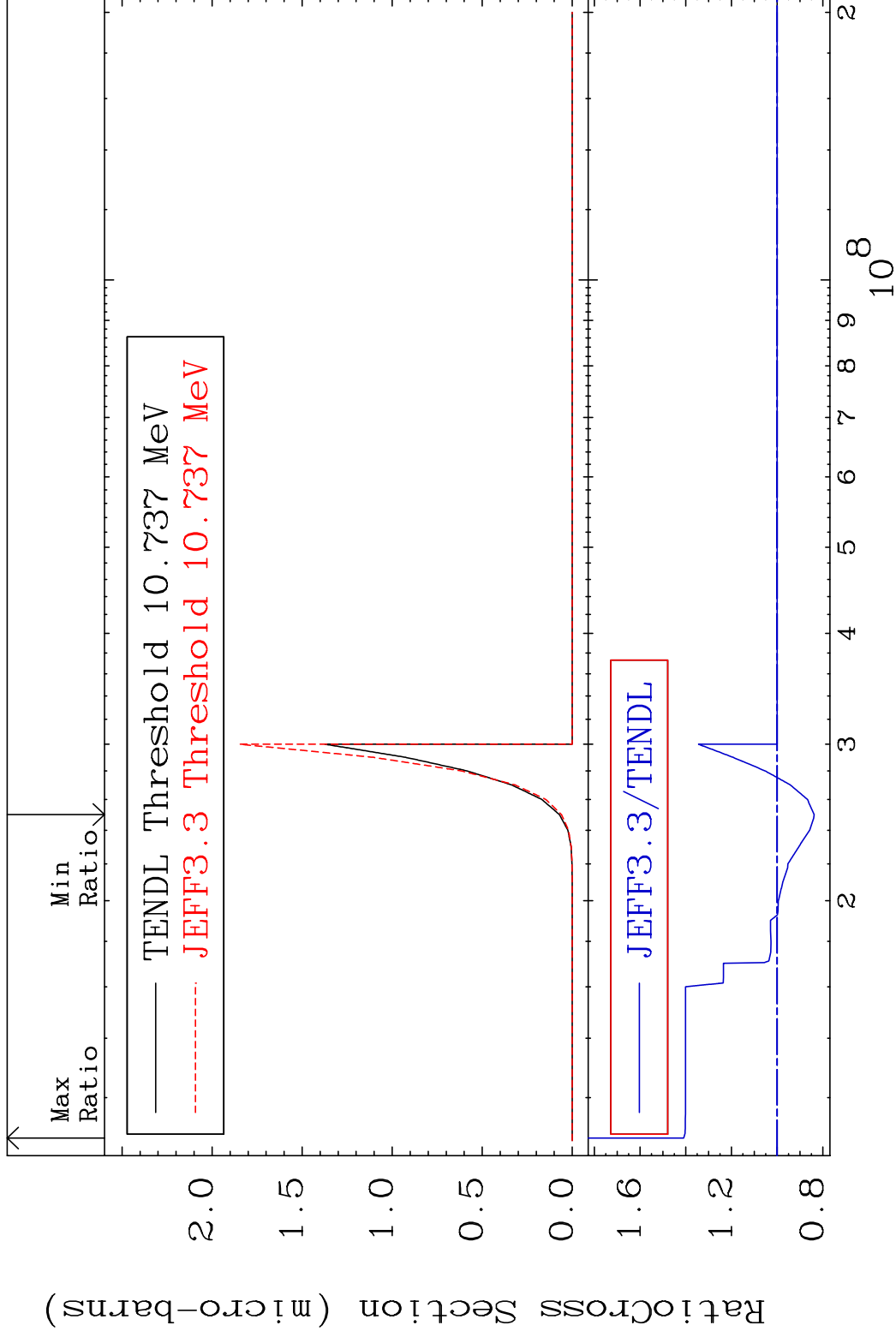
64-Gd-150

MAT 6419

(n,p) t

64-Gd-150

Cross Section -16.15 To 40.95 %



62

Incident Energy (eV)

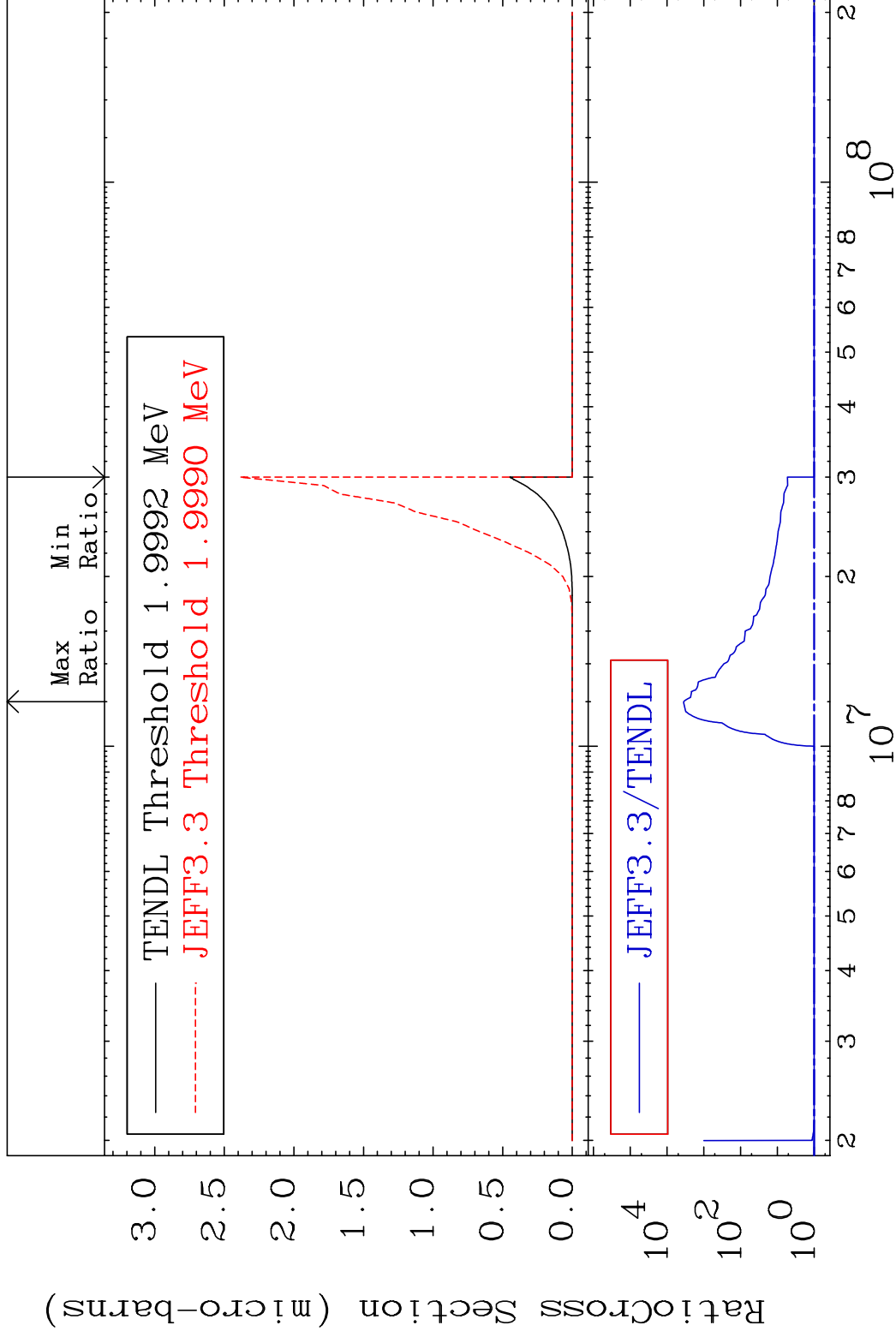
64-Gd-150

MAT 6419

(n,d) α

64-Gd-150

Cross Section 0.000 To 9999. %



63

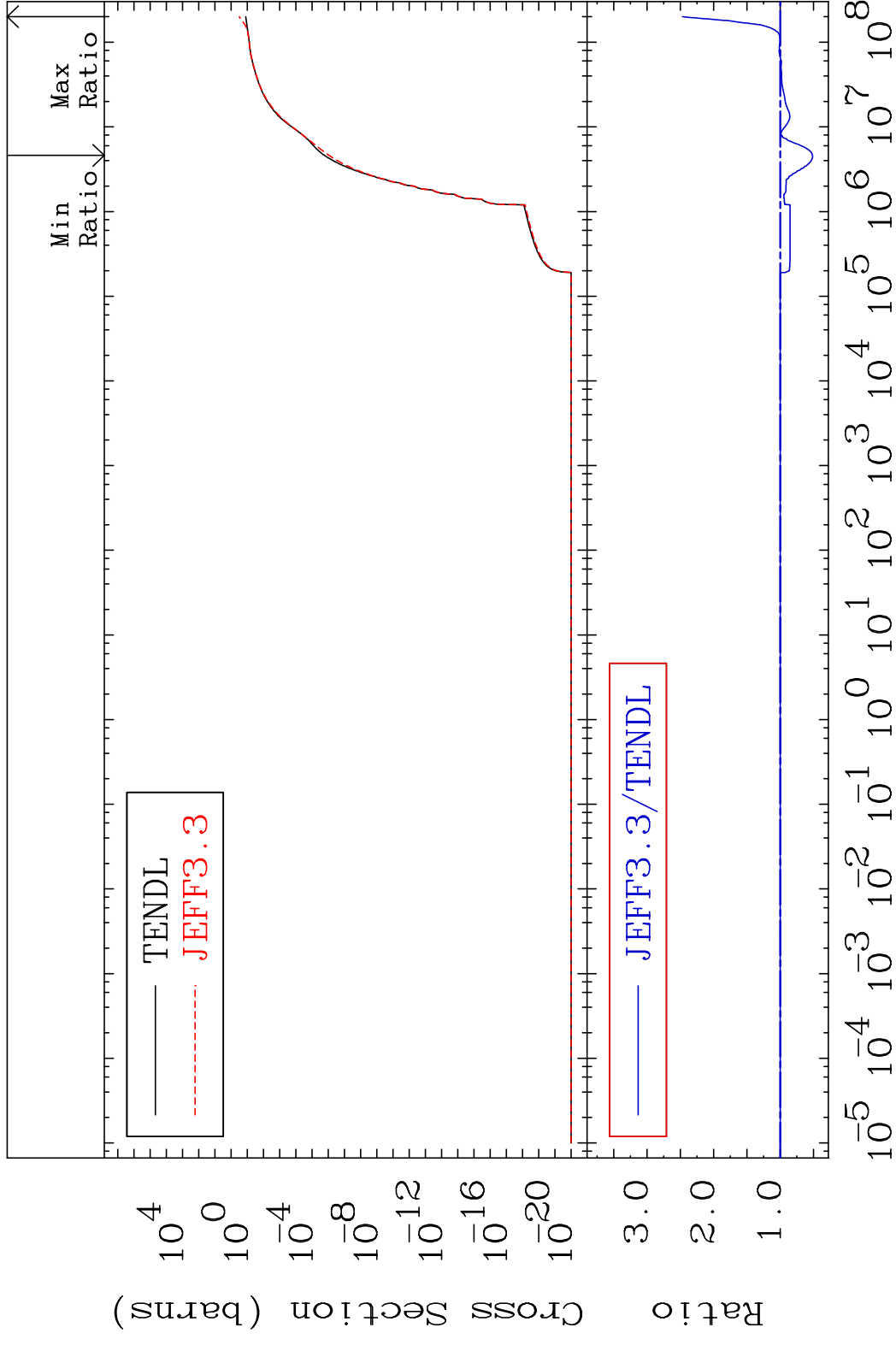
Incident Energy (eV)

64-Gd-150

MAT 6419

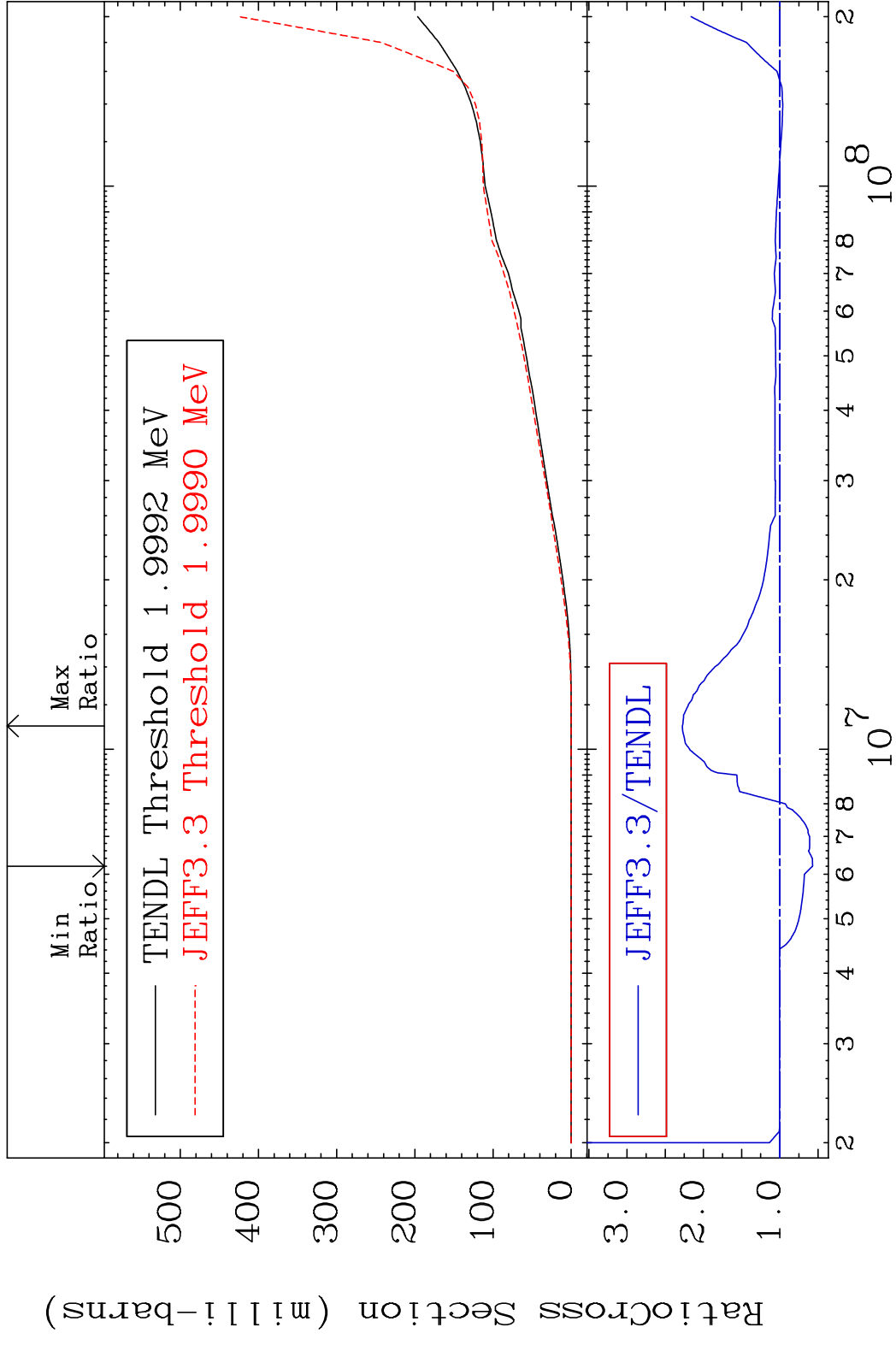
Hydrogen Production
Cross Section -48.42 To 147.0 %

64-Gd-150



MAT 6419

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

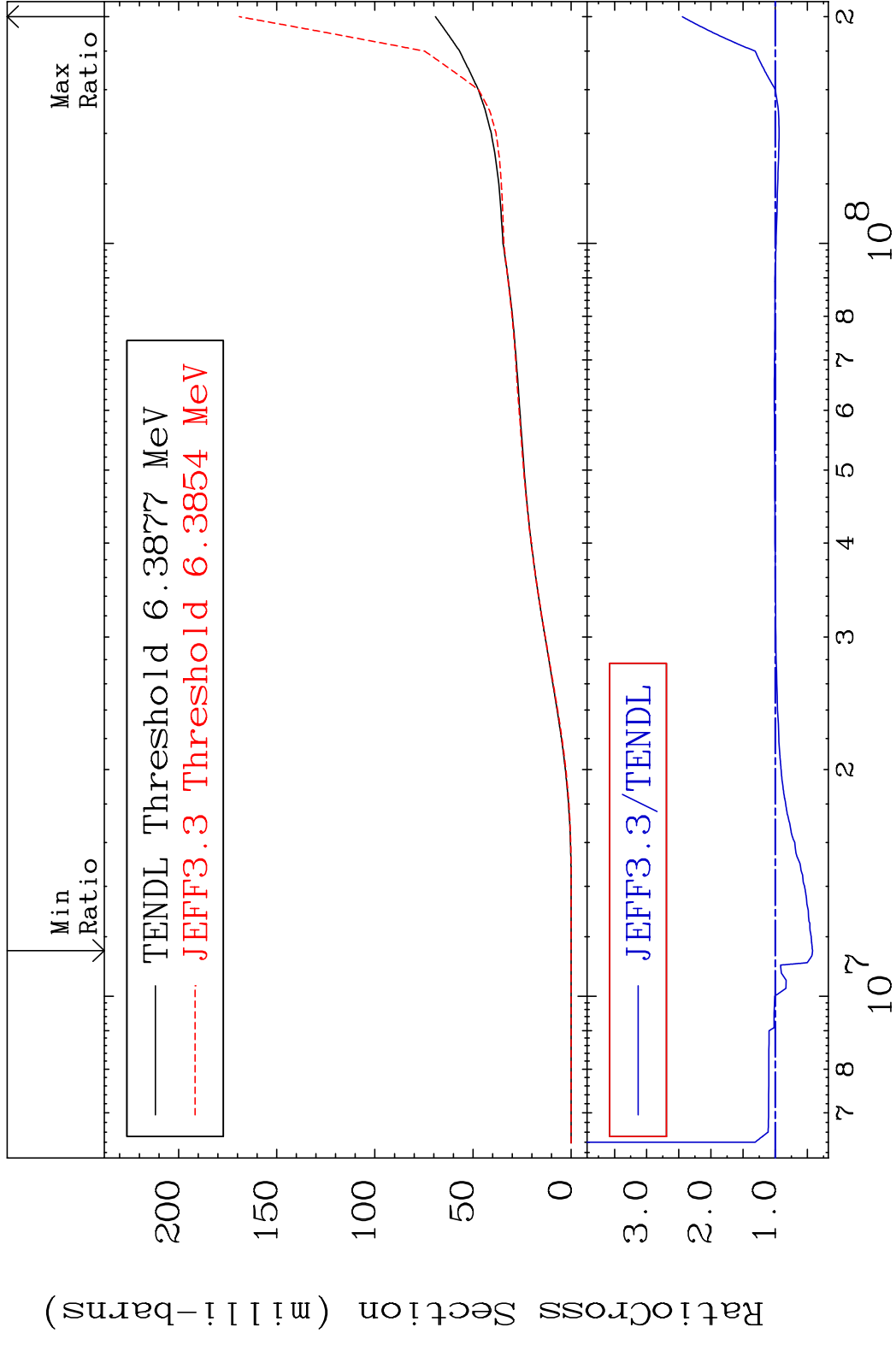


65

Incident Energy (eV) 64-Gd-150

MAT 6419

Tritium Production 64-Gd-150
Cross Section -57.95 To 144.5 %



66

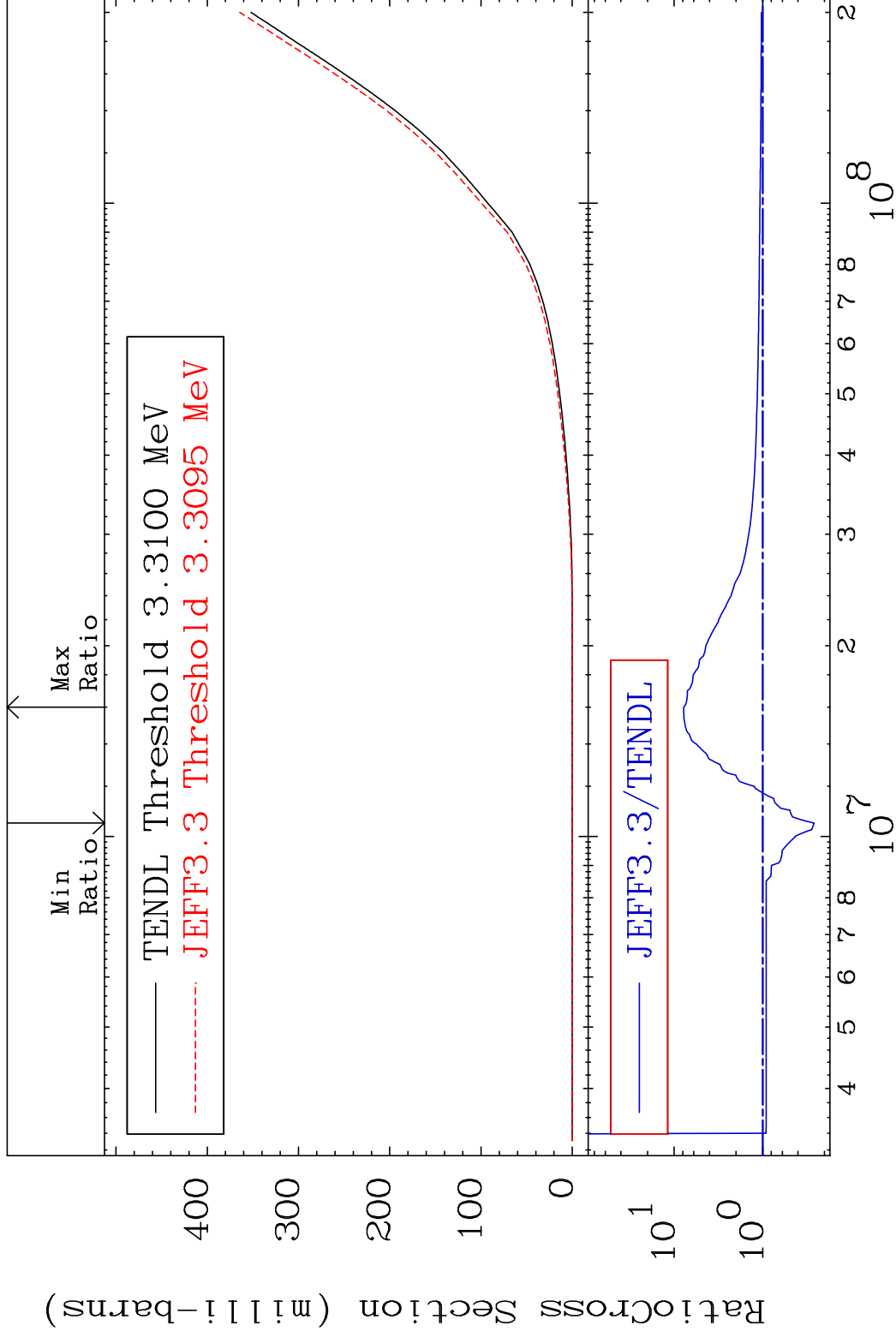
Incident Energy (eV) 64-Gd-150

MAT 6419

He-3 Production

64-Gd-150

Cross Section -73.76 To 682.0 %



67

Incident Energy (eV)

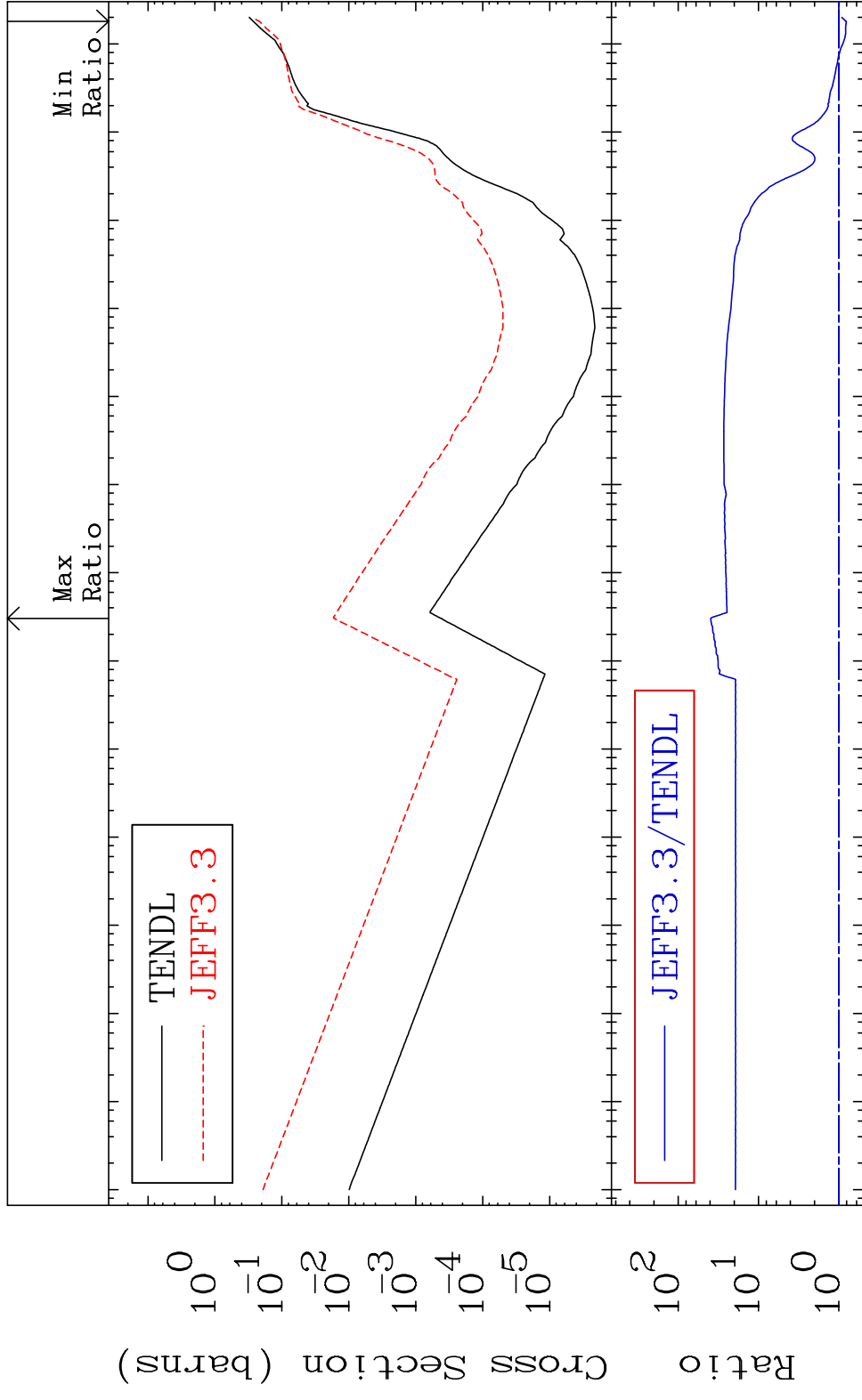
64-Gd-150

MAT 6419

He-4 Production

64-Gd-150

Cross Section -19.45 To 3831. %



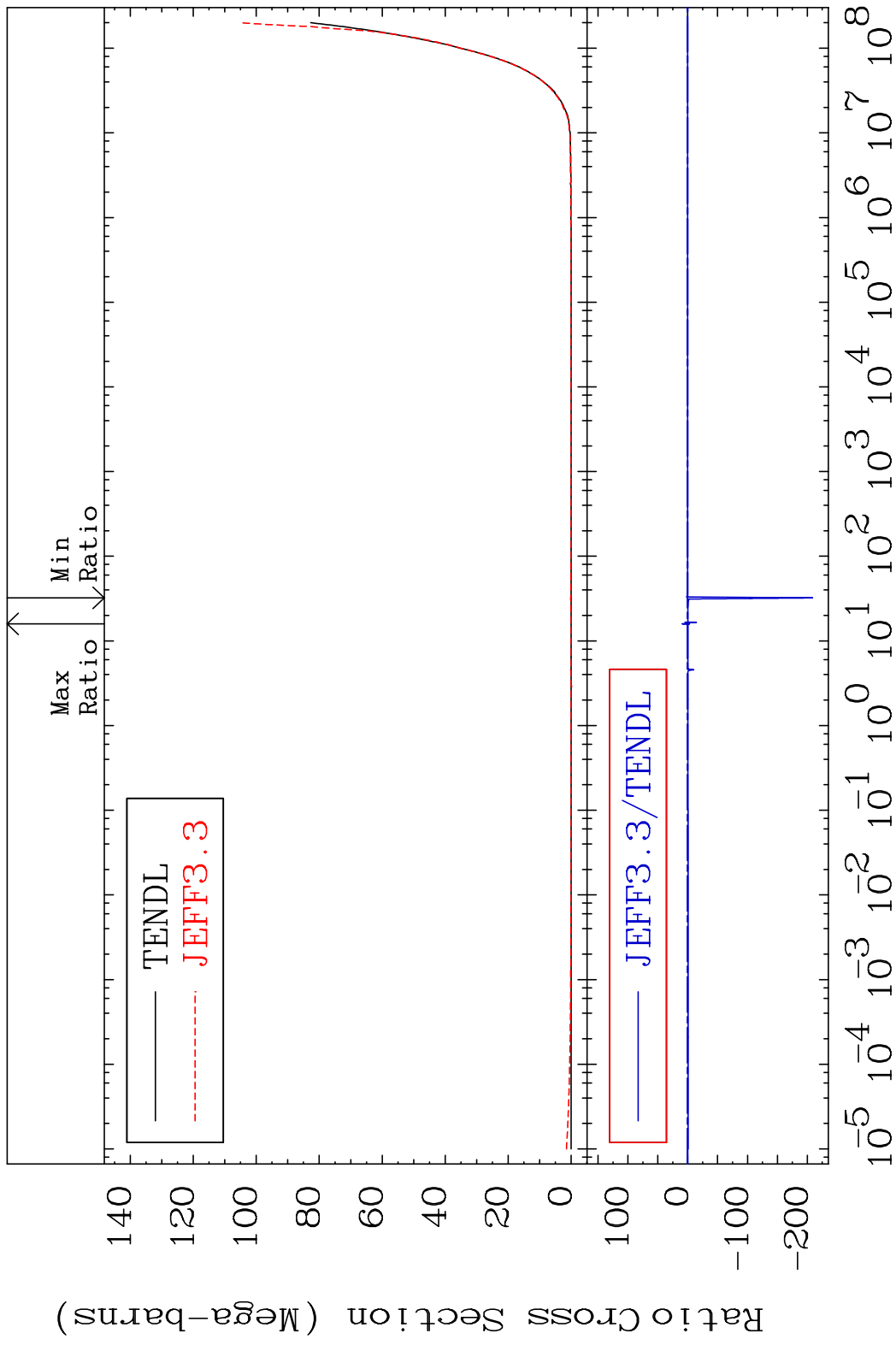
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

68

Incident Energy (eV)

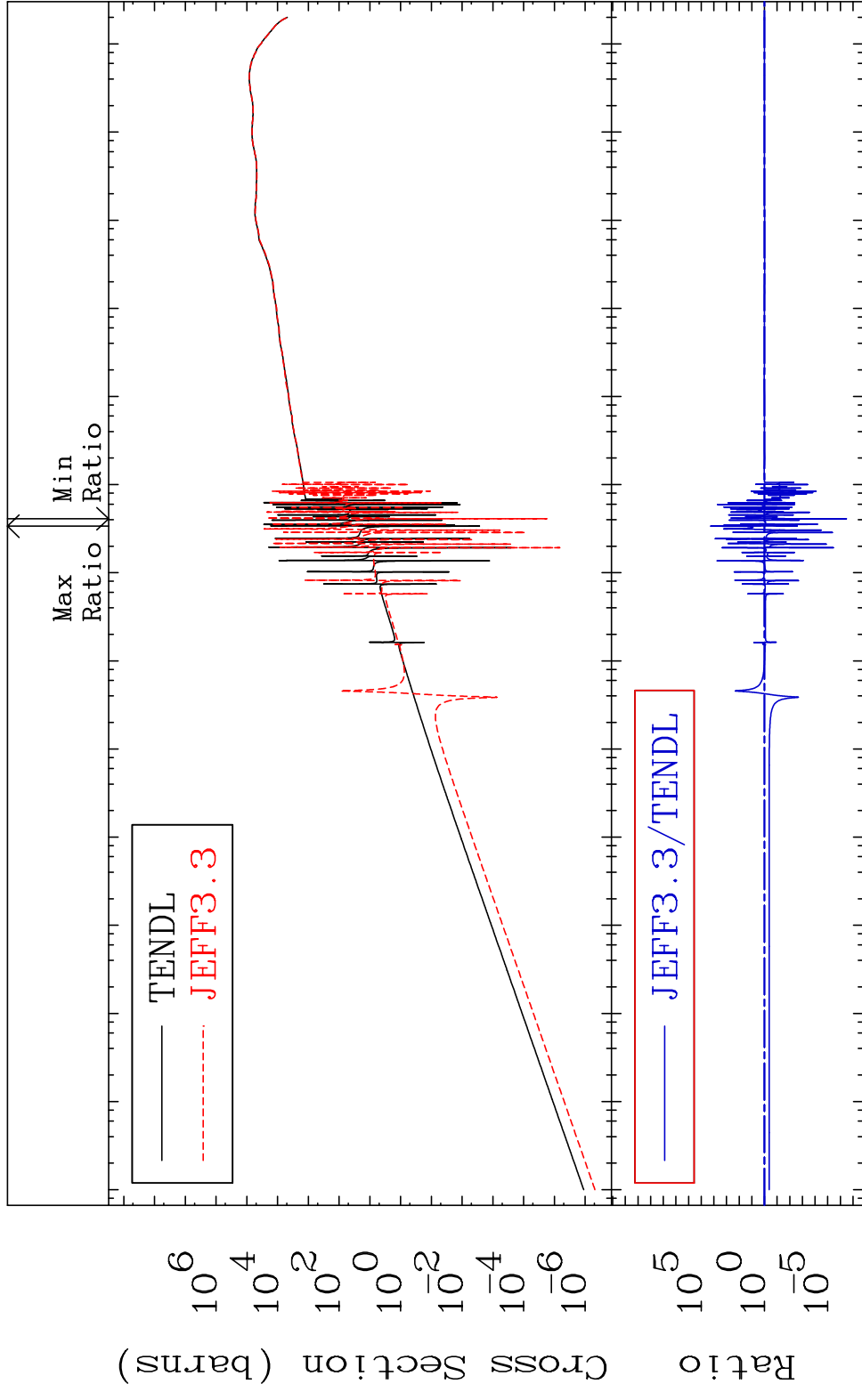
64-Gd-150

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



MAT 6419

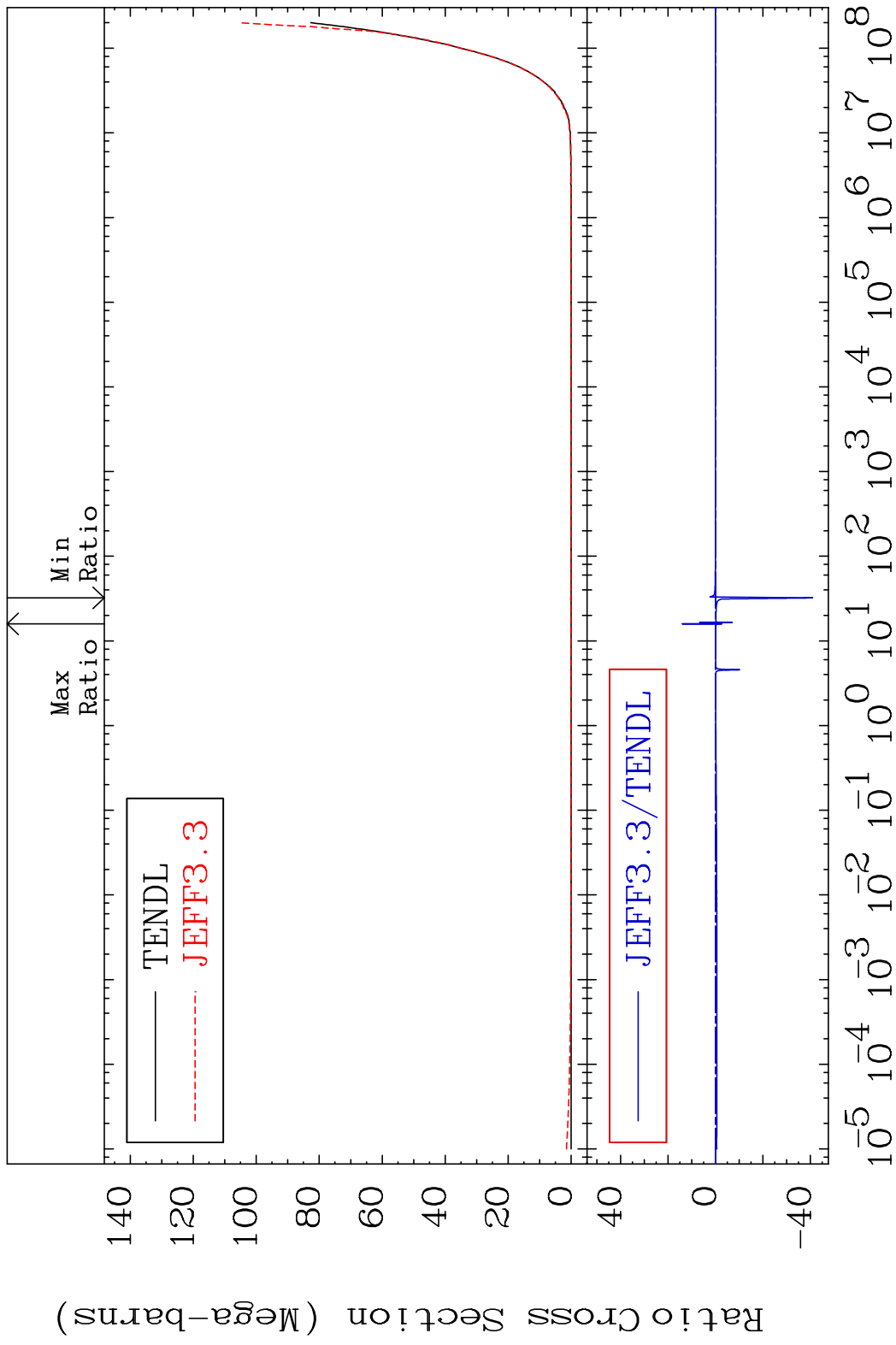
Kerma elastic
Cross Section -100.0 To 9999. %
64-Gd-150



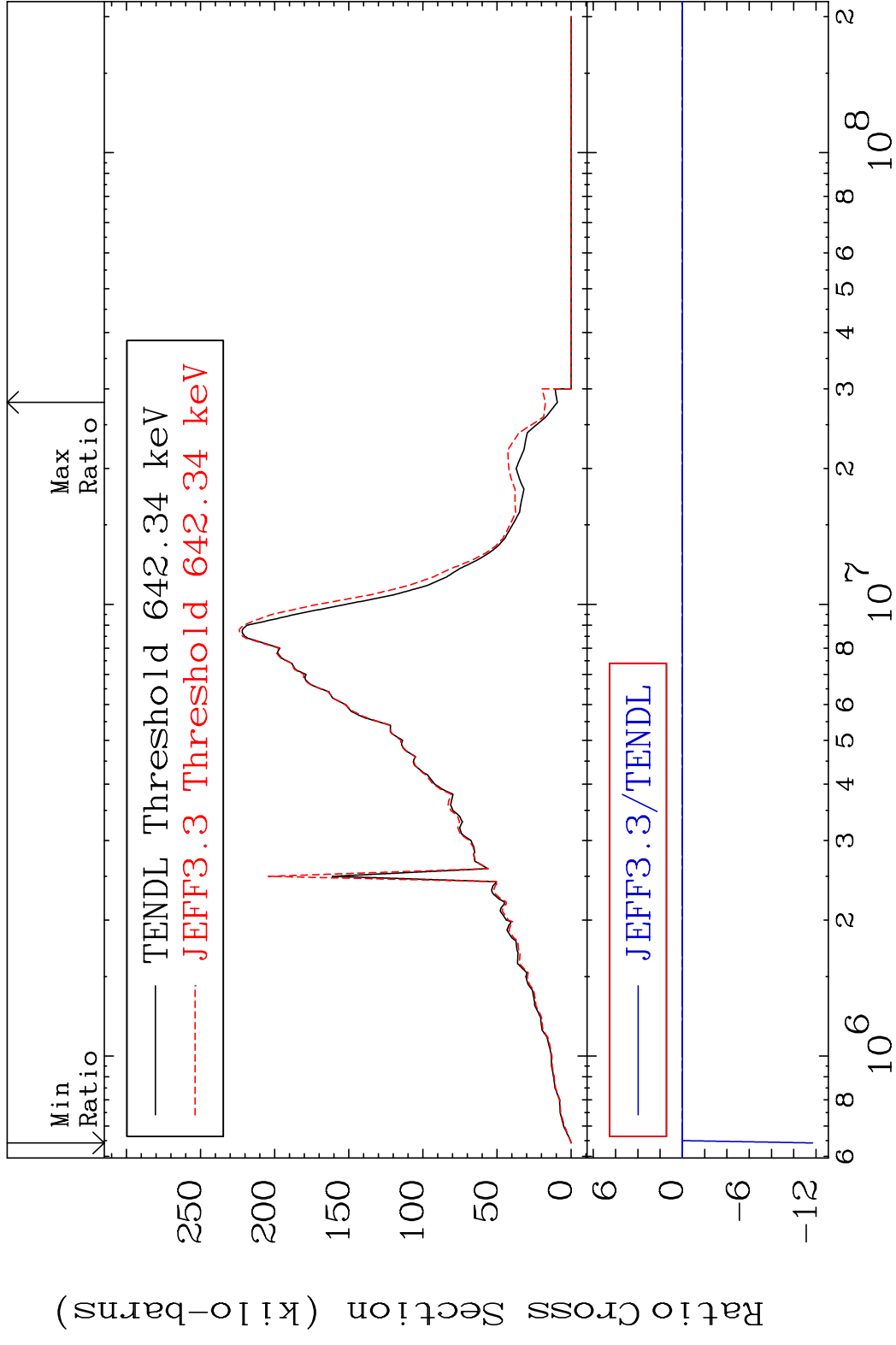
70

Incident Energy (eV) 64-Gd-150

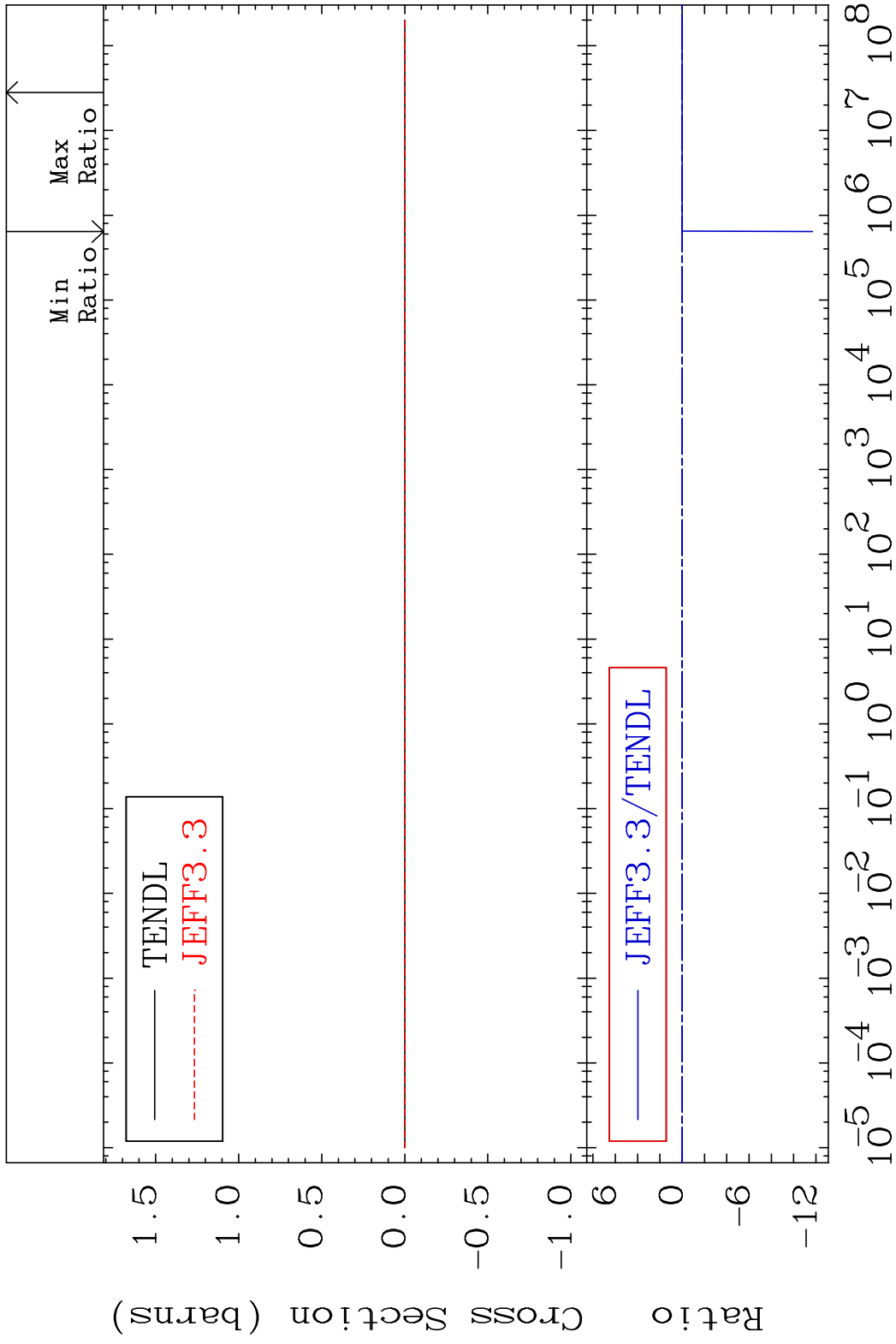
MAT 6419 Kerma non-elastic (all but mt2) 64-Gd-150
 Cross Section -9999. To 9999. %



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

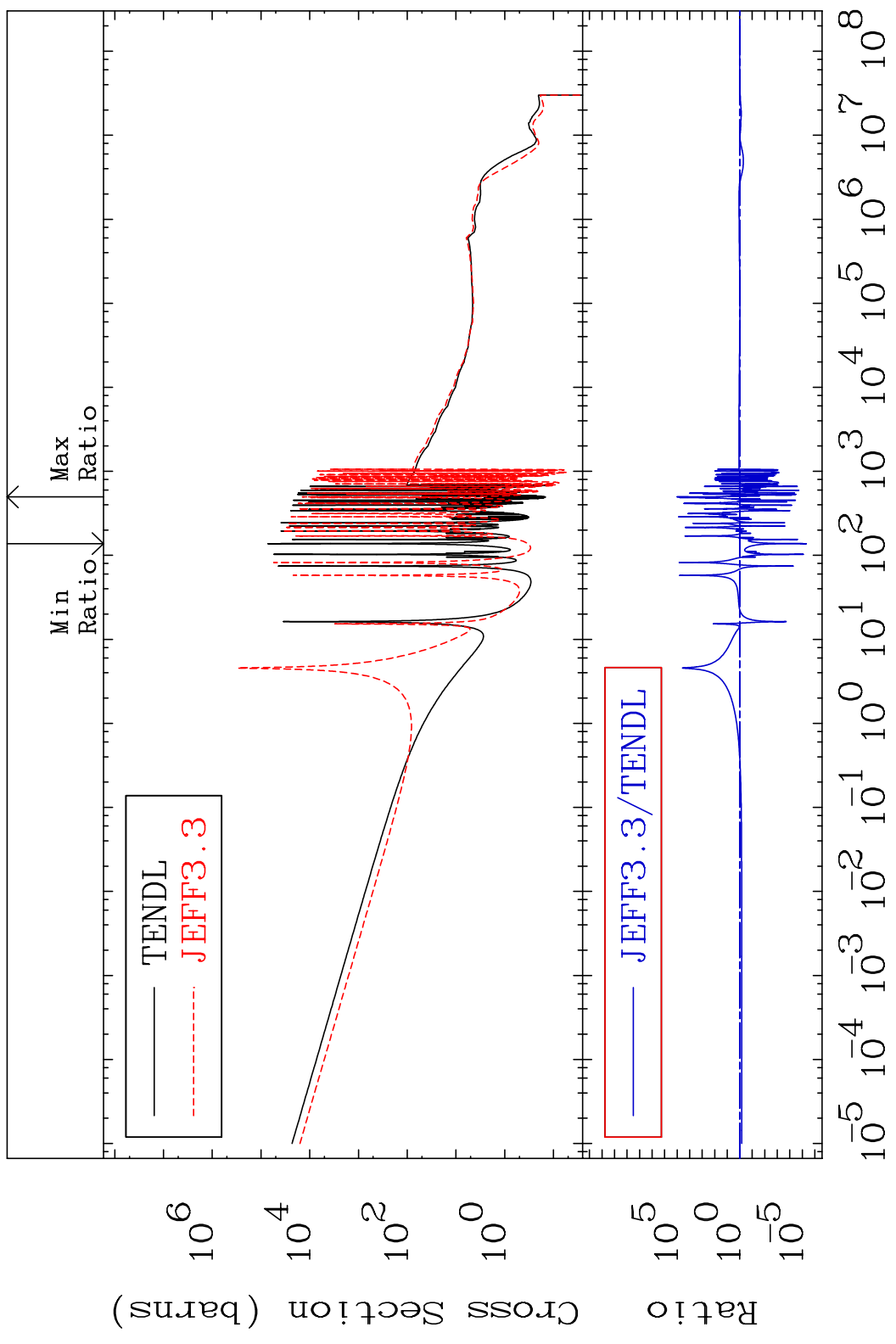


MAT 6419 Kerma fission (mt18 or mt19-20-21-38) 64-Gd-150
 Cross Section -9999. To 85.19 %



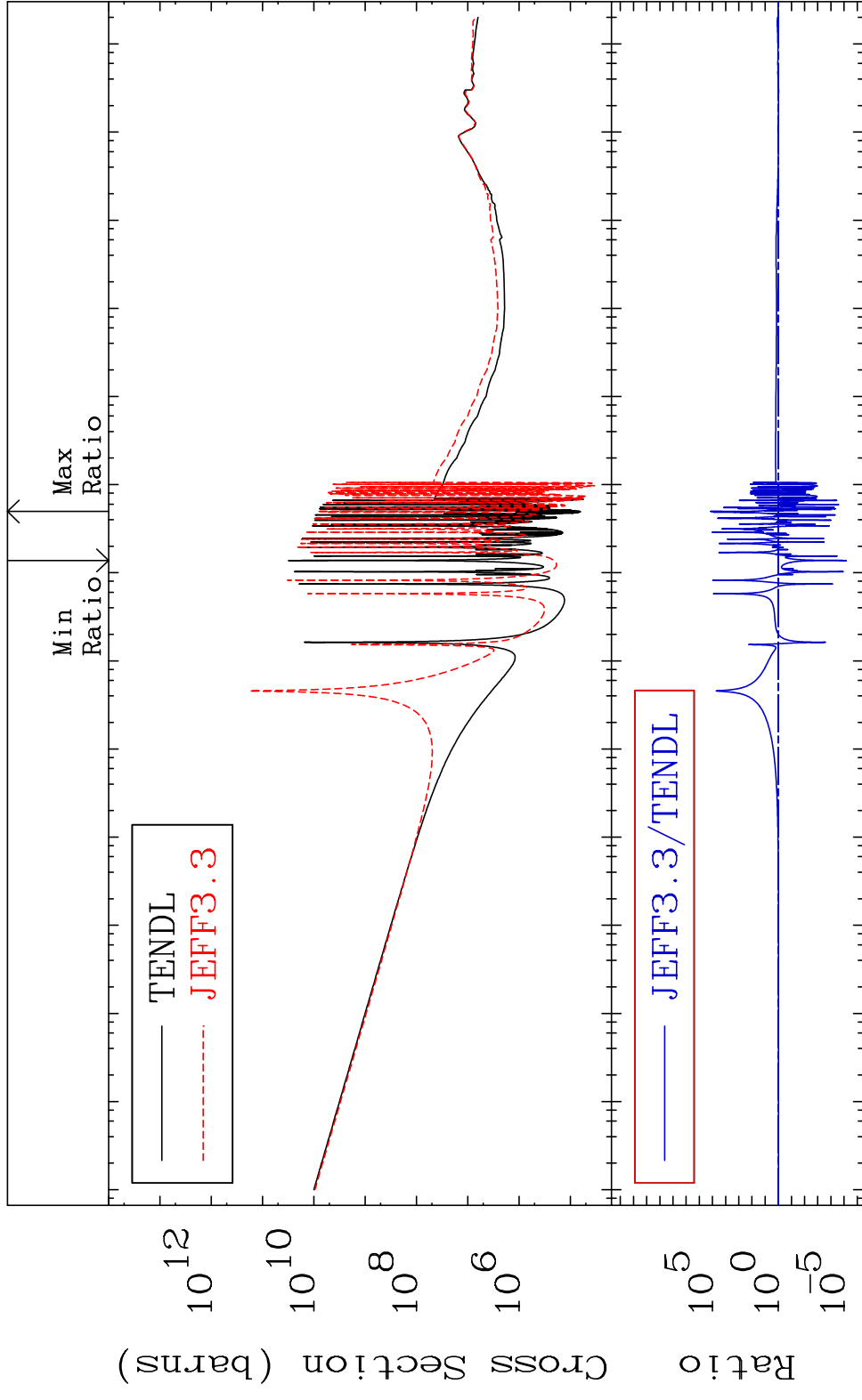
MAT 6419

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



MAT 6419

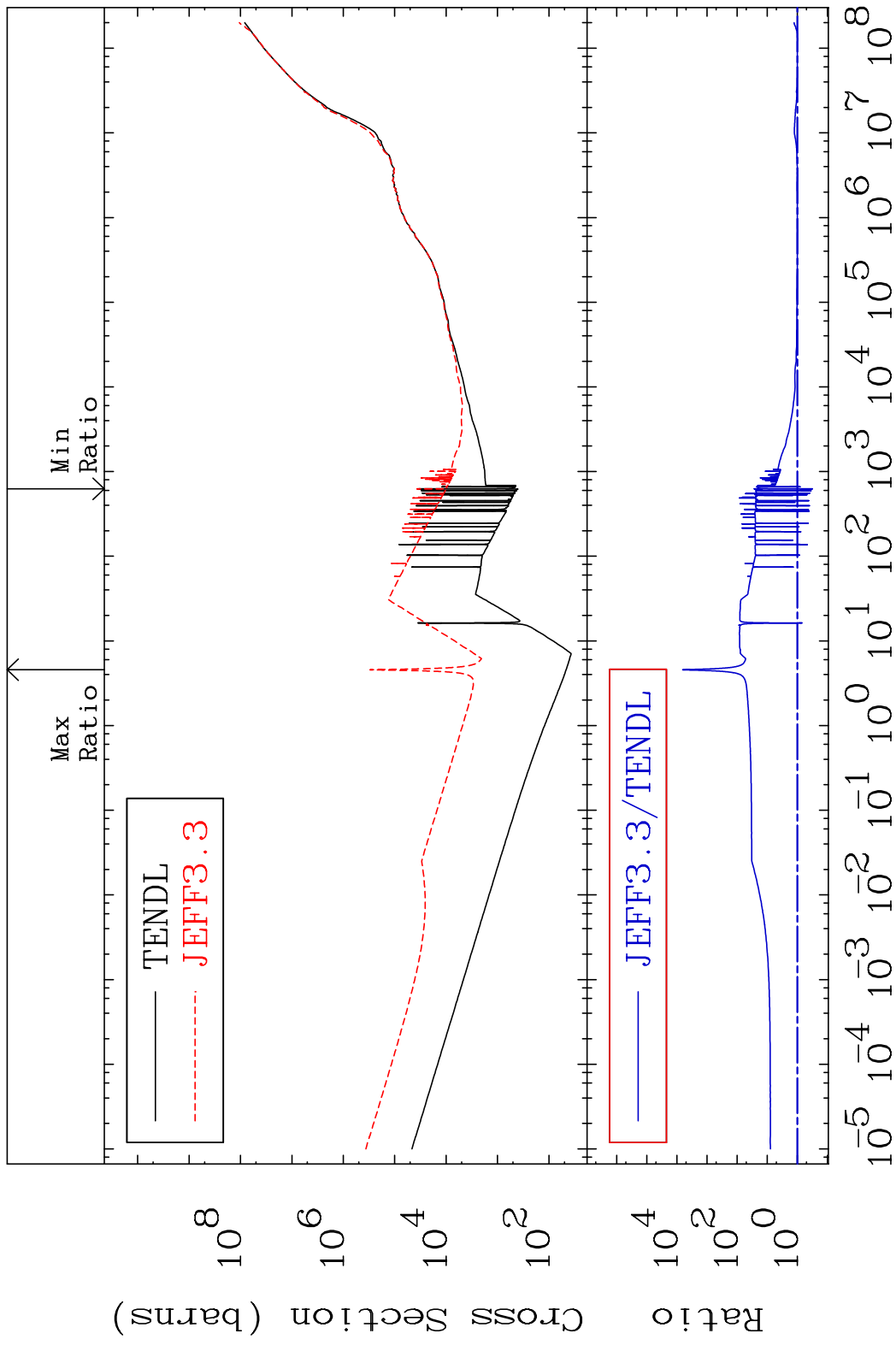
Total photon (eV-barns) 64-Gd-150
Cross Section -100.0 To 9999. %



75

Incident Energy (eV) 64-Gd-150

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

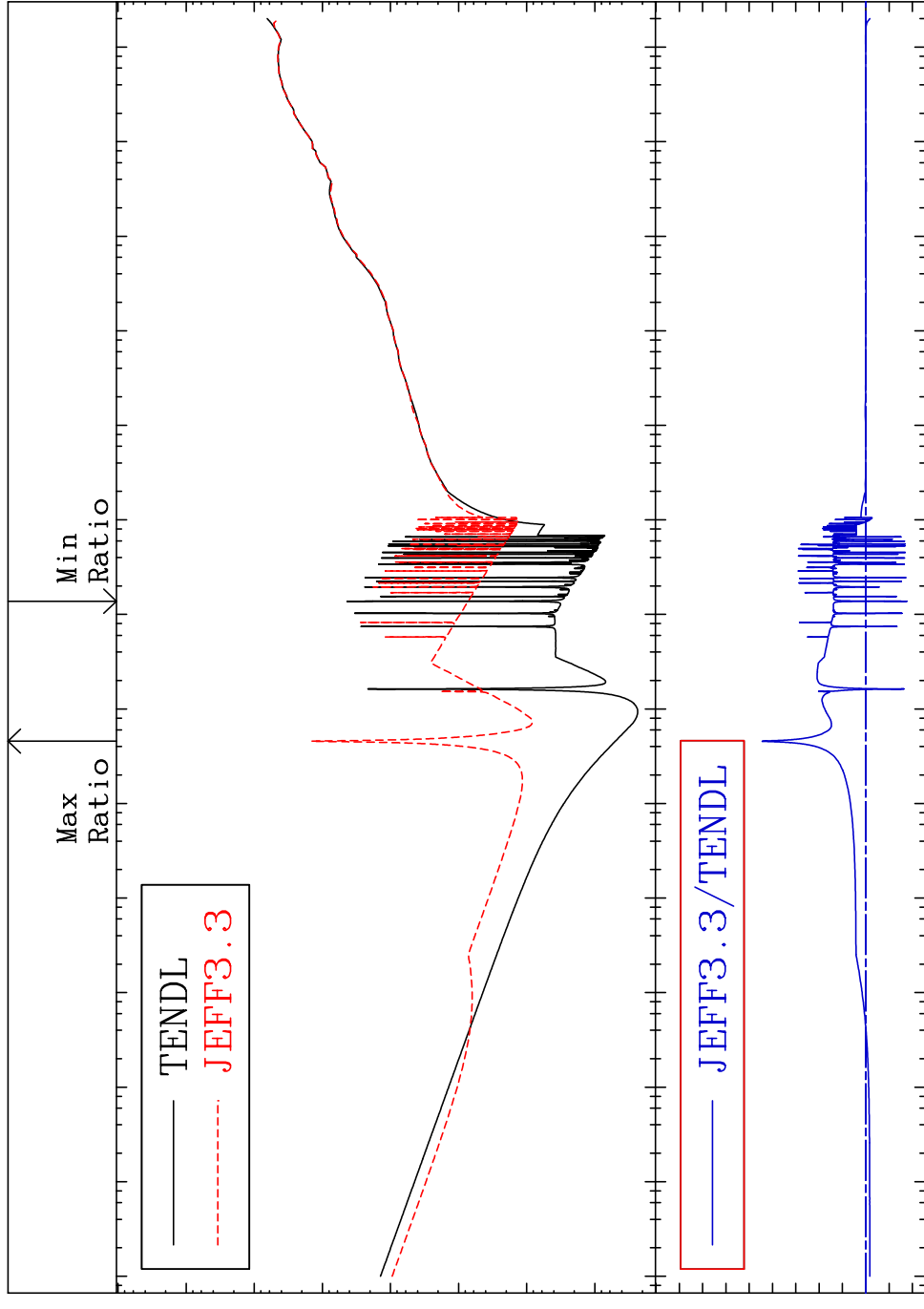


MAT 6419

Dpa total (eV-barns)

64-Gd-150

Cross Section -98.33 To 9999. %



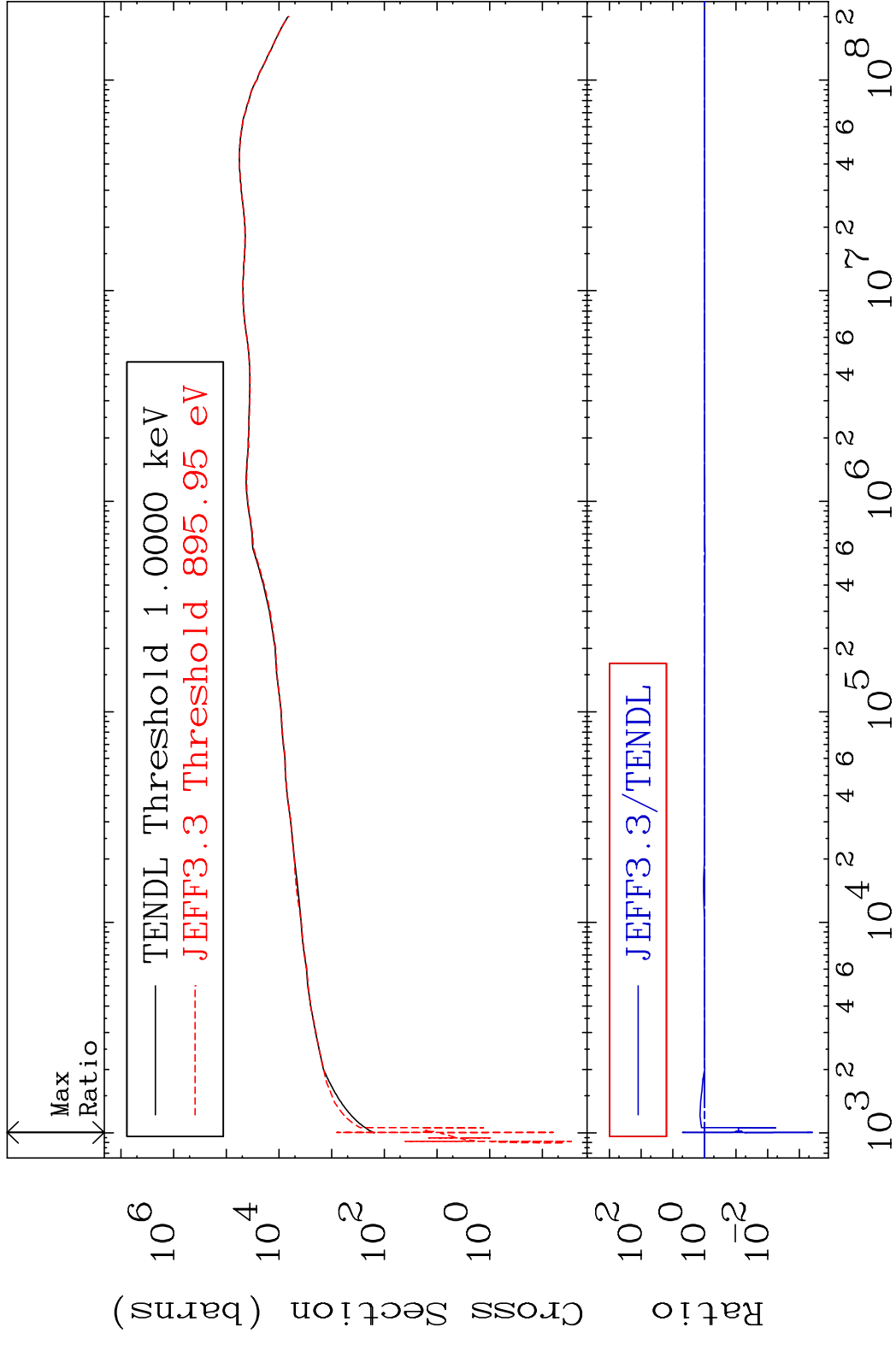
MAT 6419

Dpa elastic (mt2)

64-Gd-150

Cross Section

-99.96 To 397.3 %



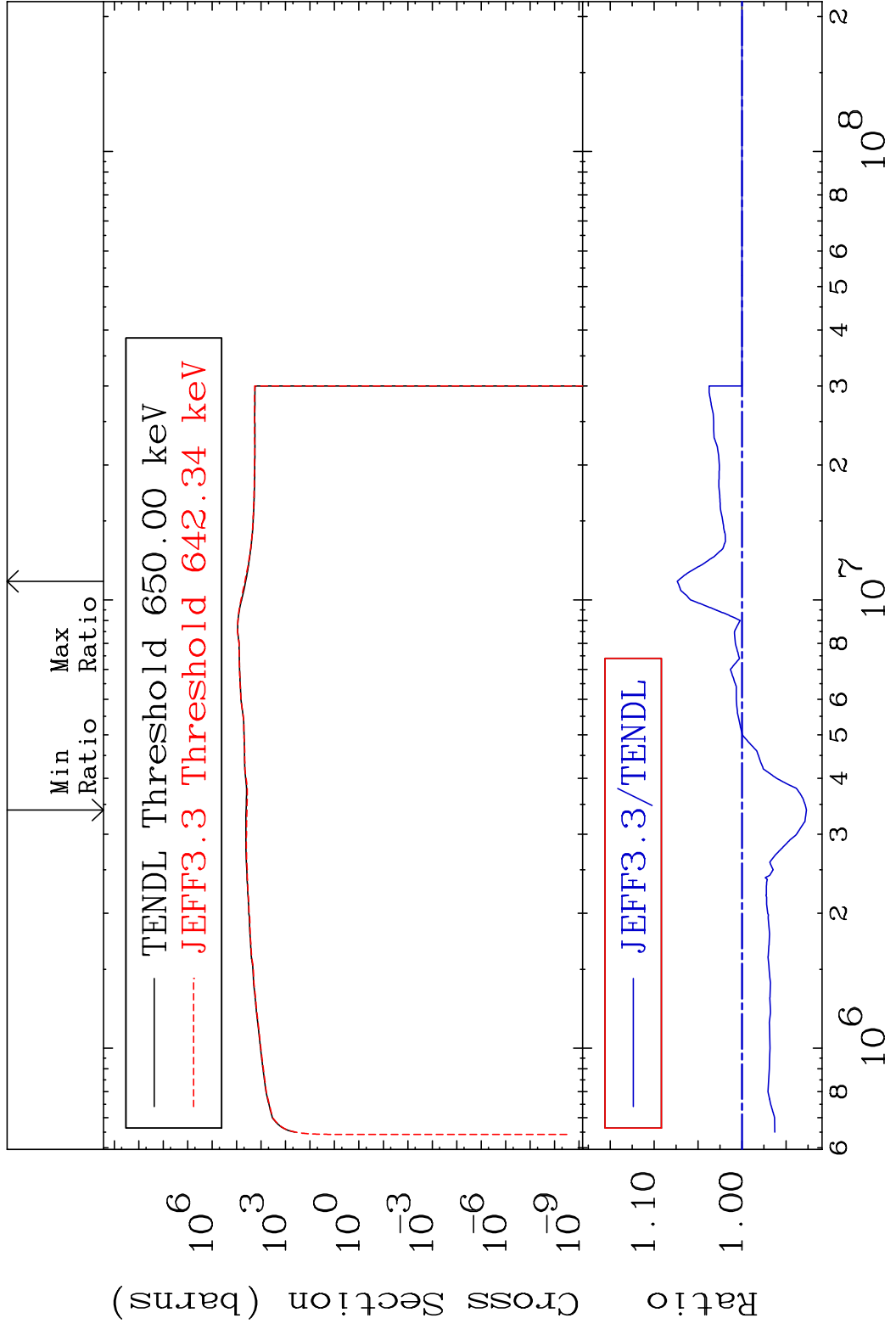
78

Incident Energy (eV)

64-Gd-150

MAT 6419

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

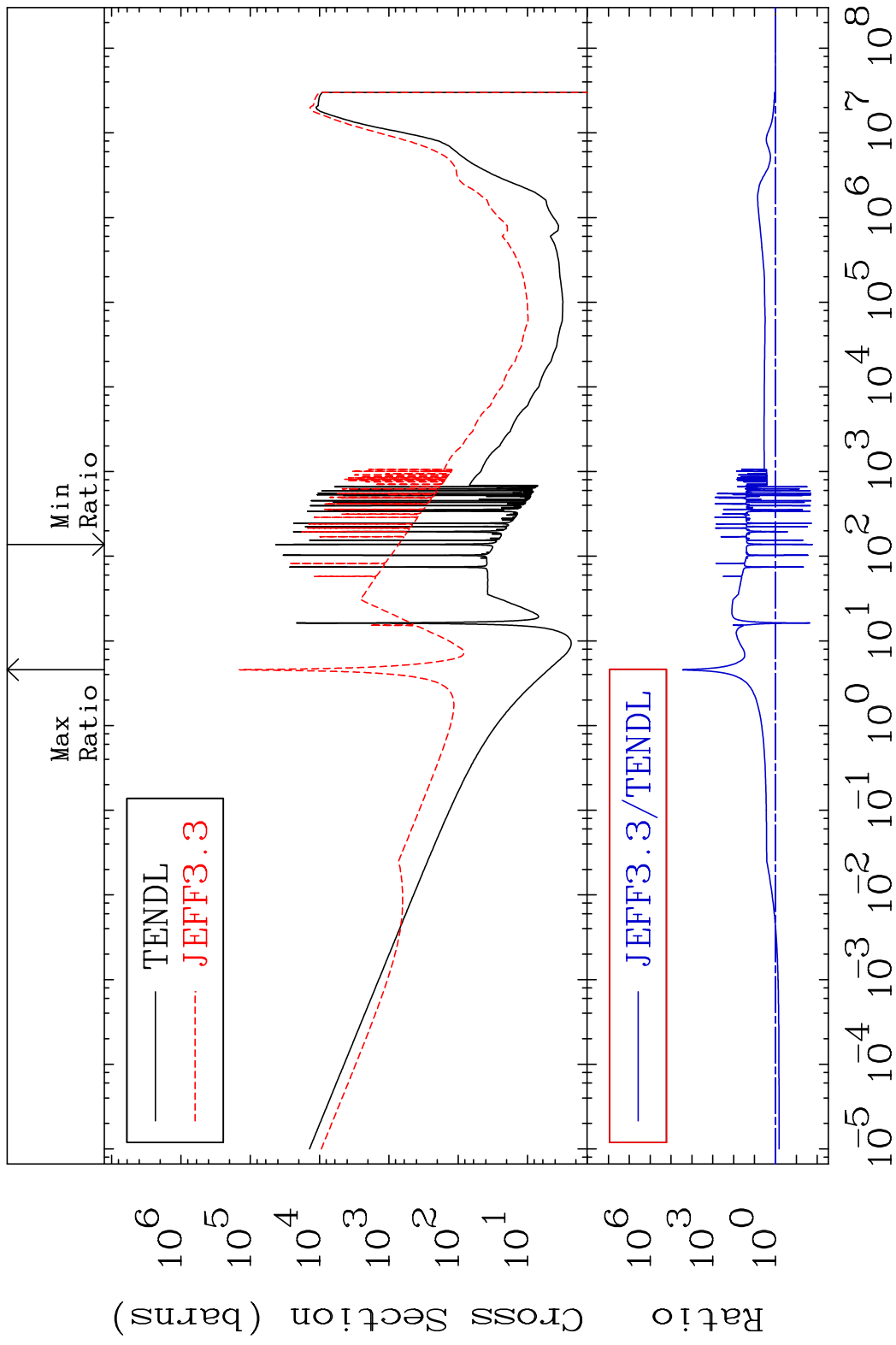


79

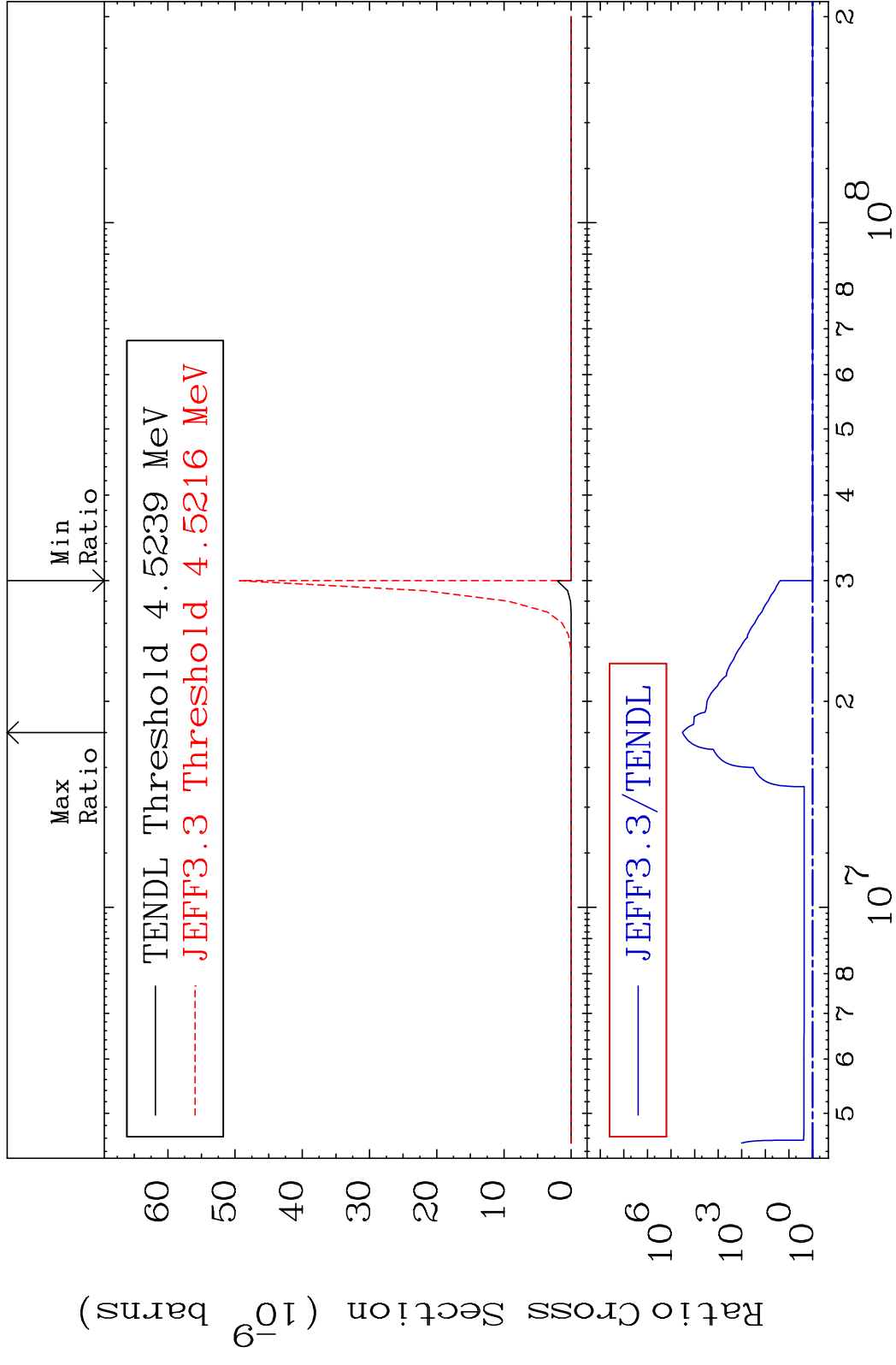
Incident Energy (eV)

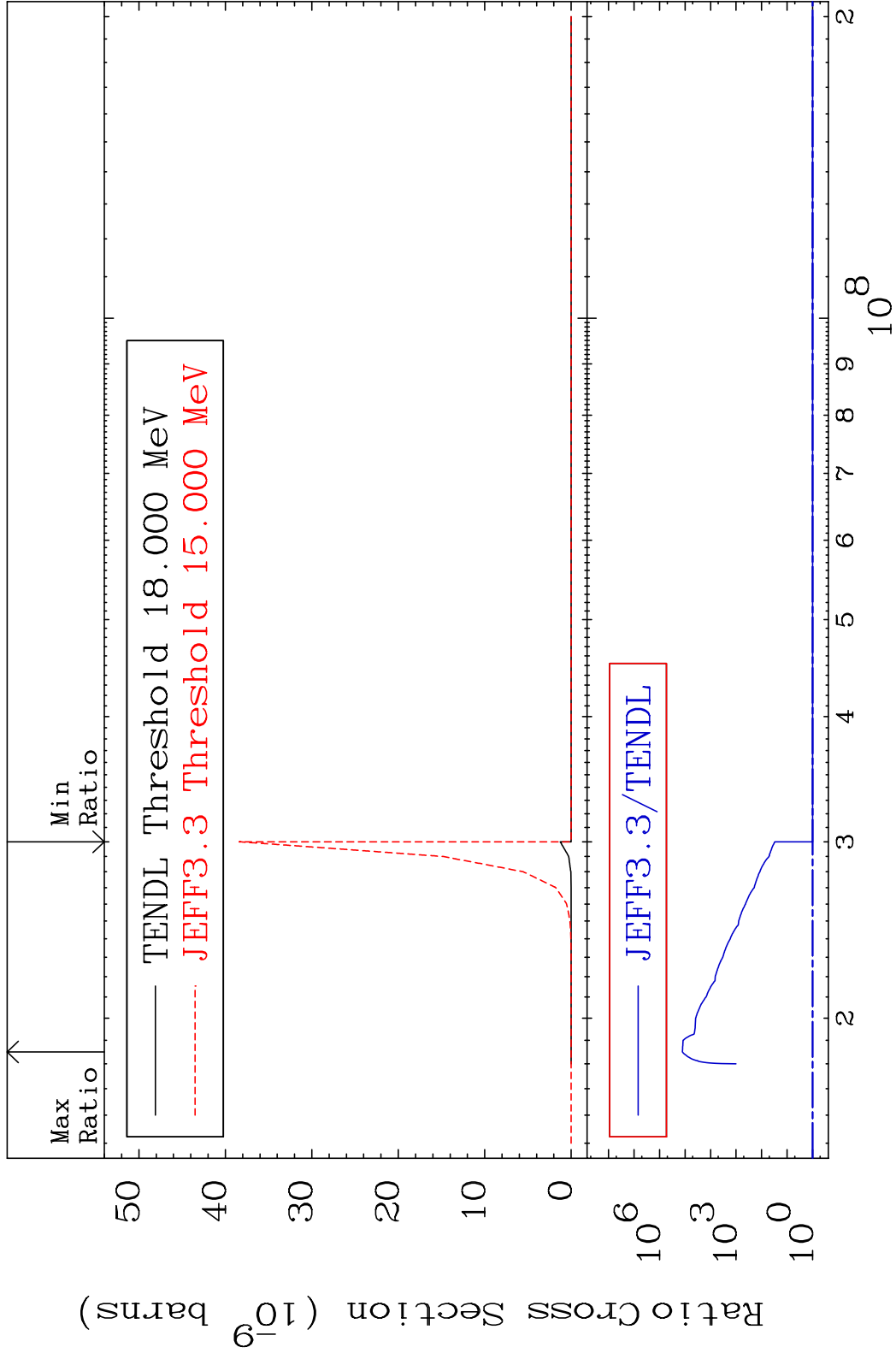
64-Gd-150

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

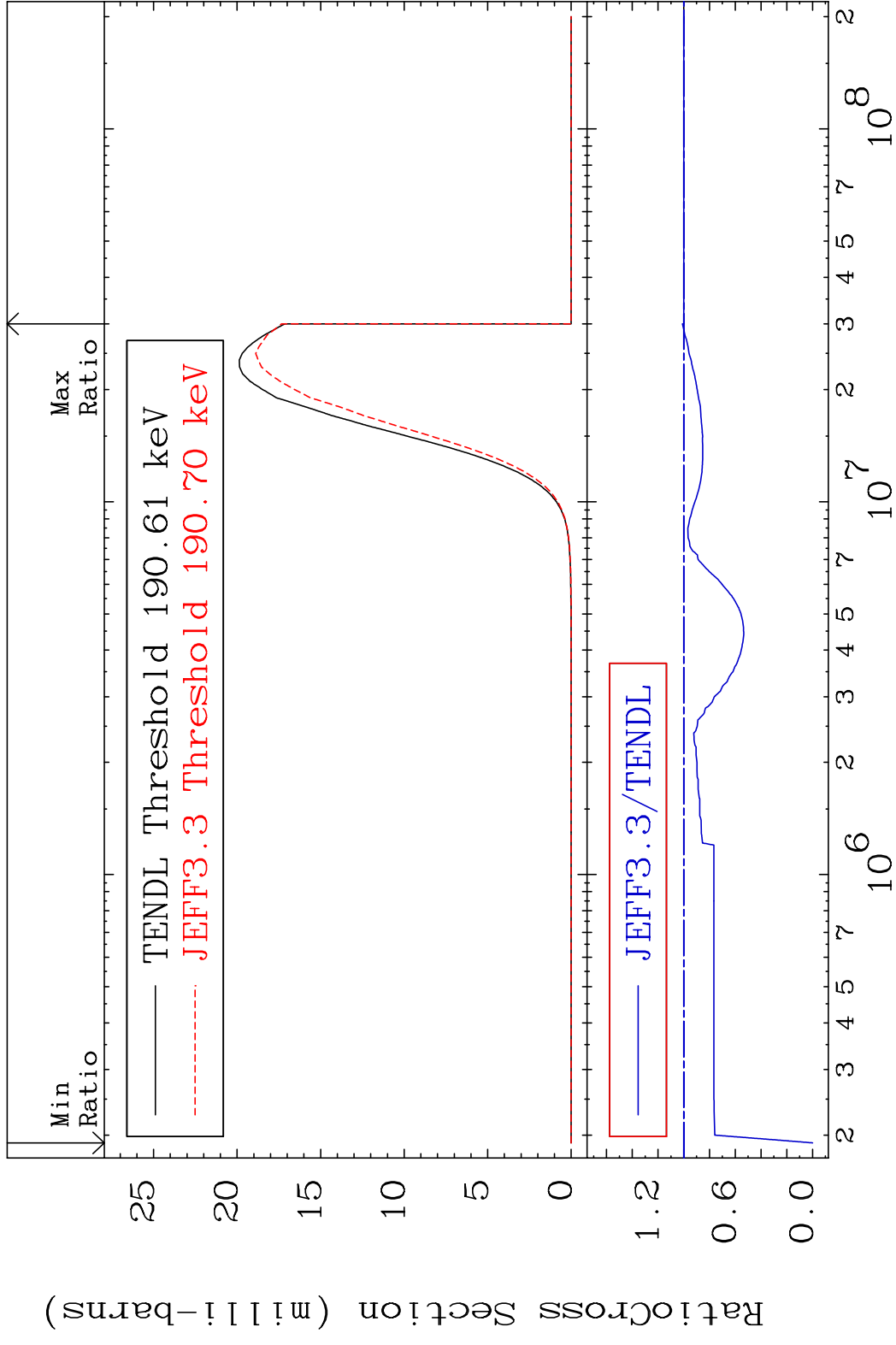


80 Incident Energy (eV) 64-Gd-150





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 %

