

Program Complot
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

U.S.A.

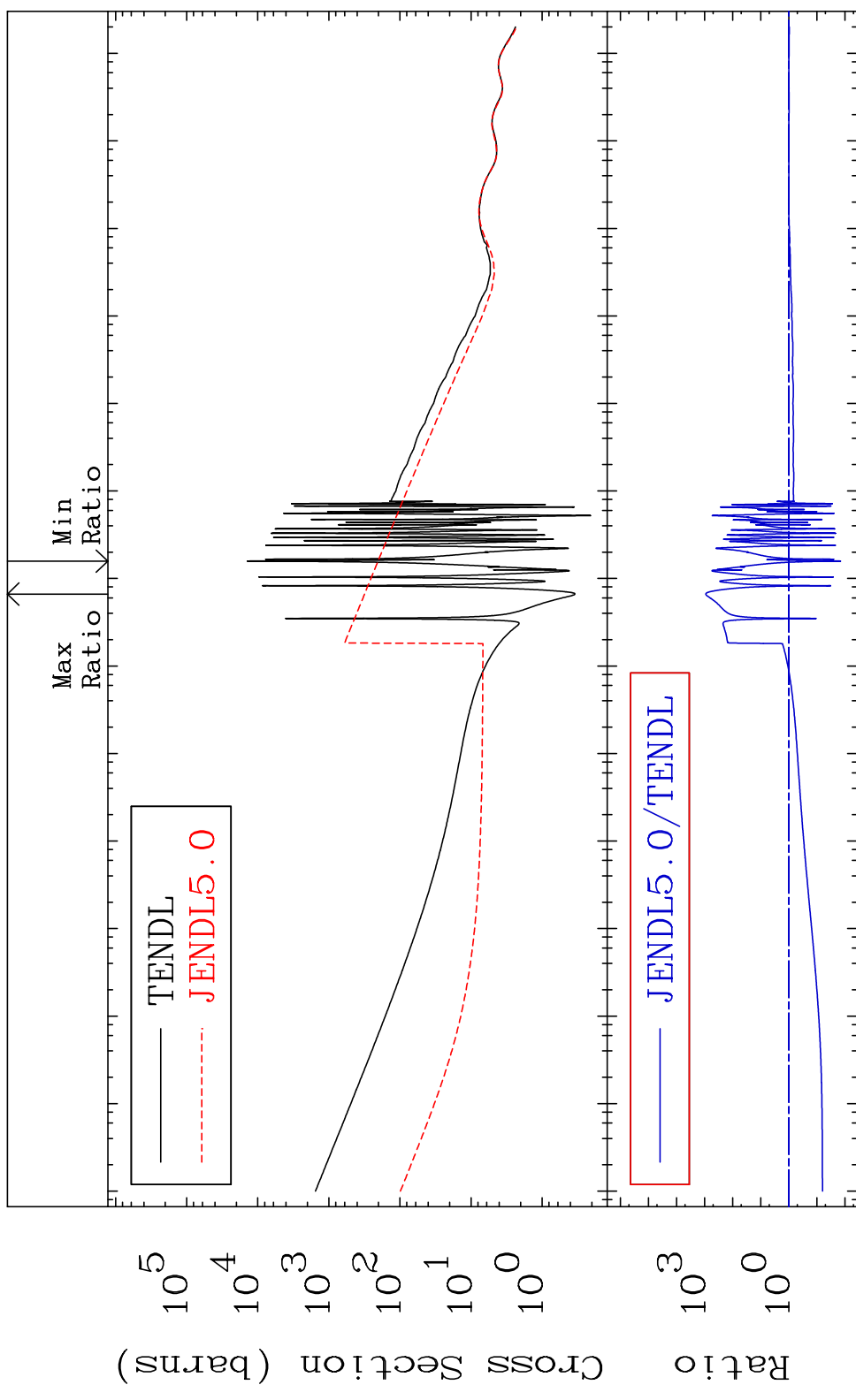
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 6419

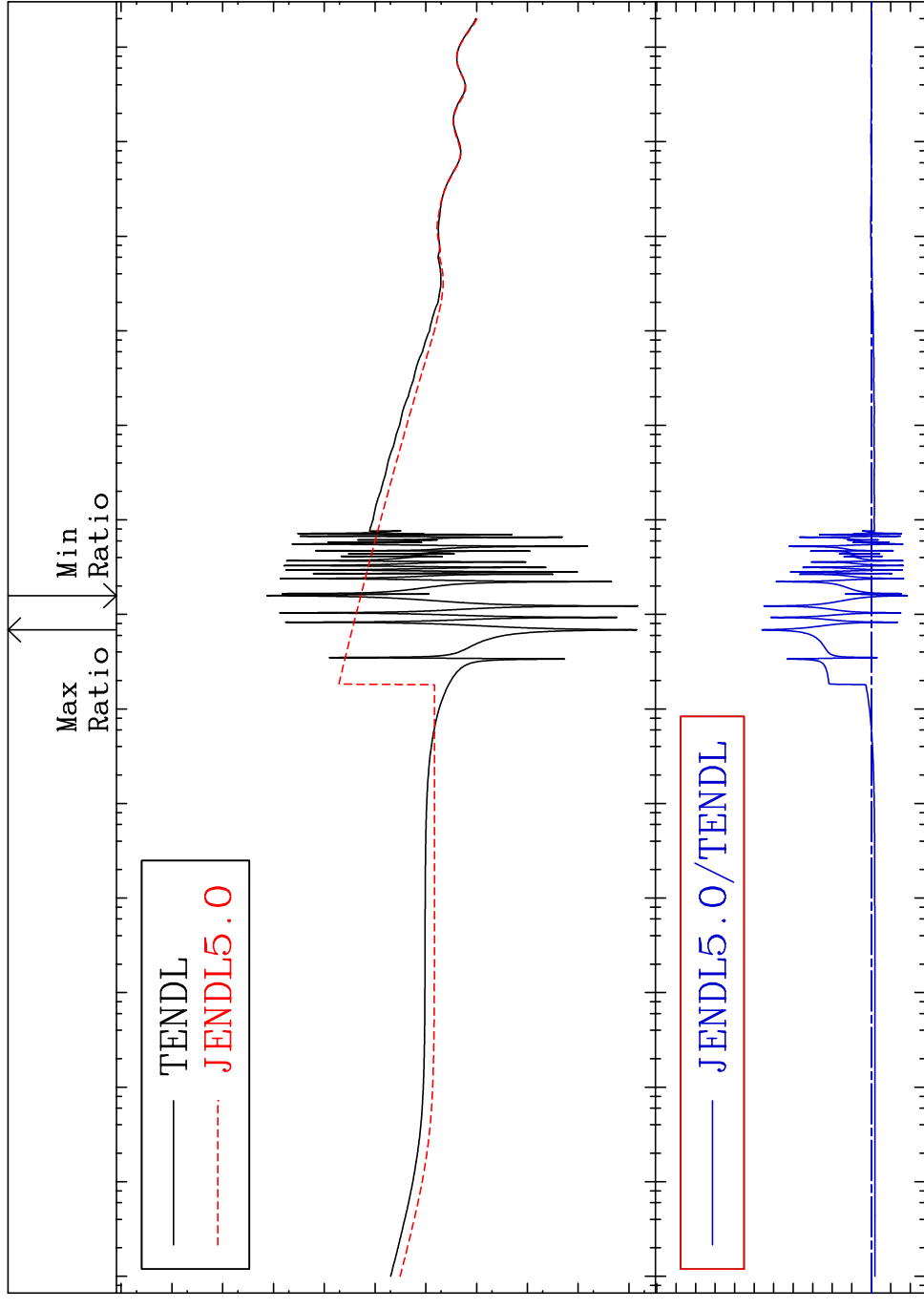
Total Cross Section -98.54 To 9999. %
64-Gd-150



1 Incident Energy (eV) 64-Gd-150

MAT 6419

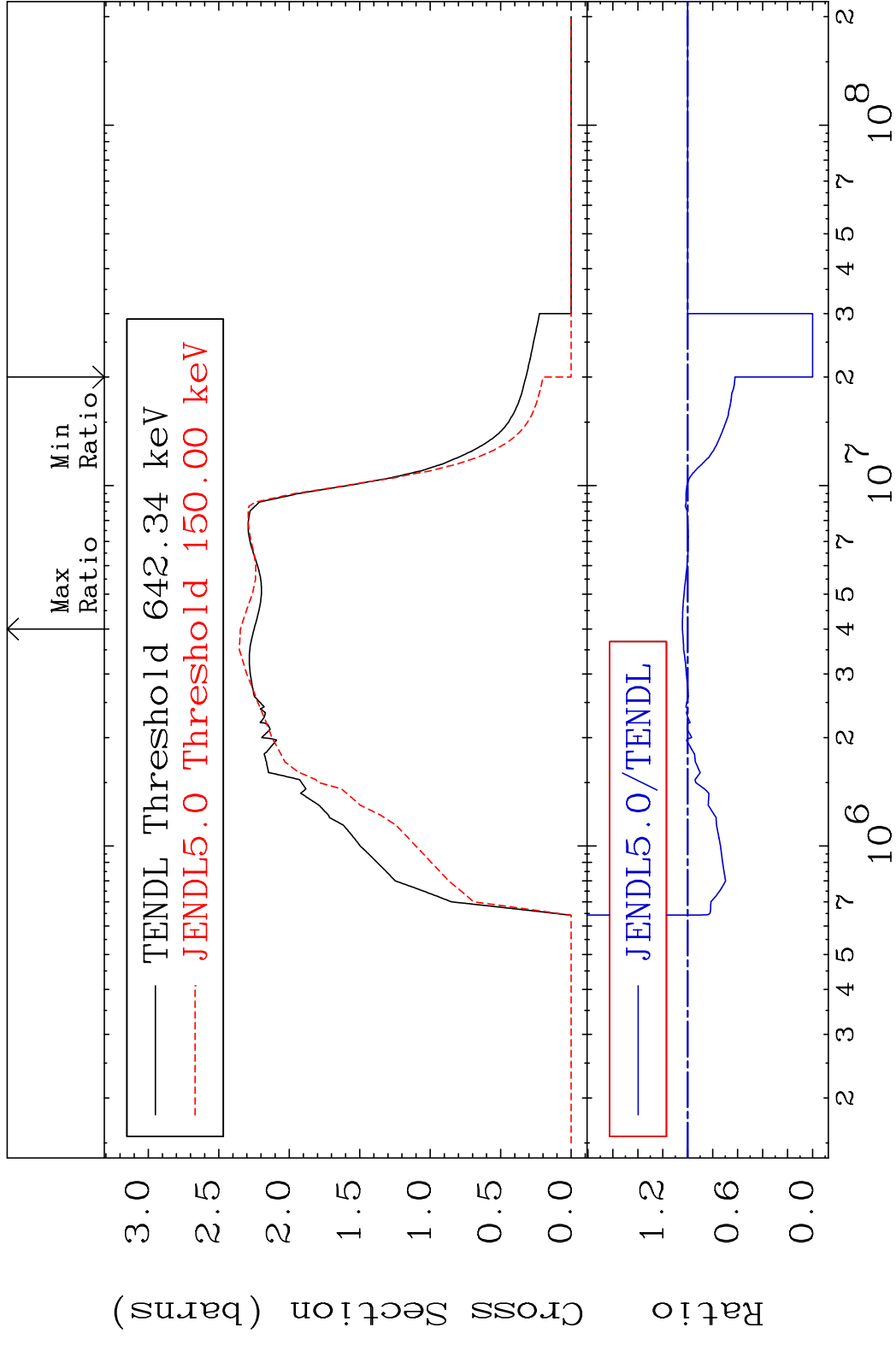
Elastic Cross Section -98.57 To 9999. %
64-Gd-150



2

Incident Energy (eV) 64-Gd-150

MAT 6419 Inelastic Cross Section -100.0 To 4.314 % 64-Gd-150

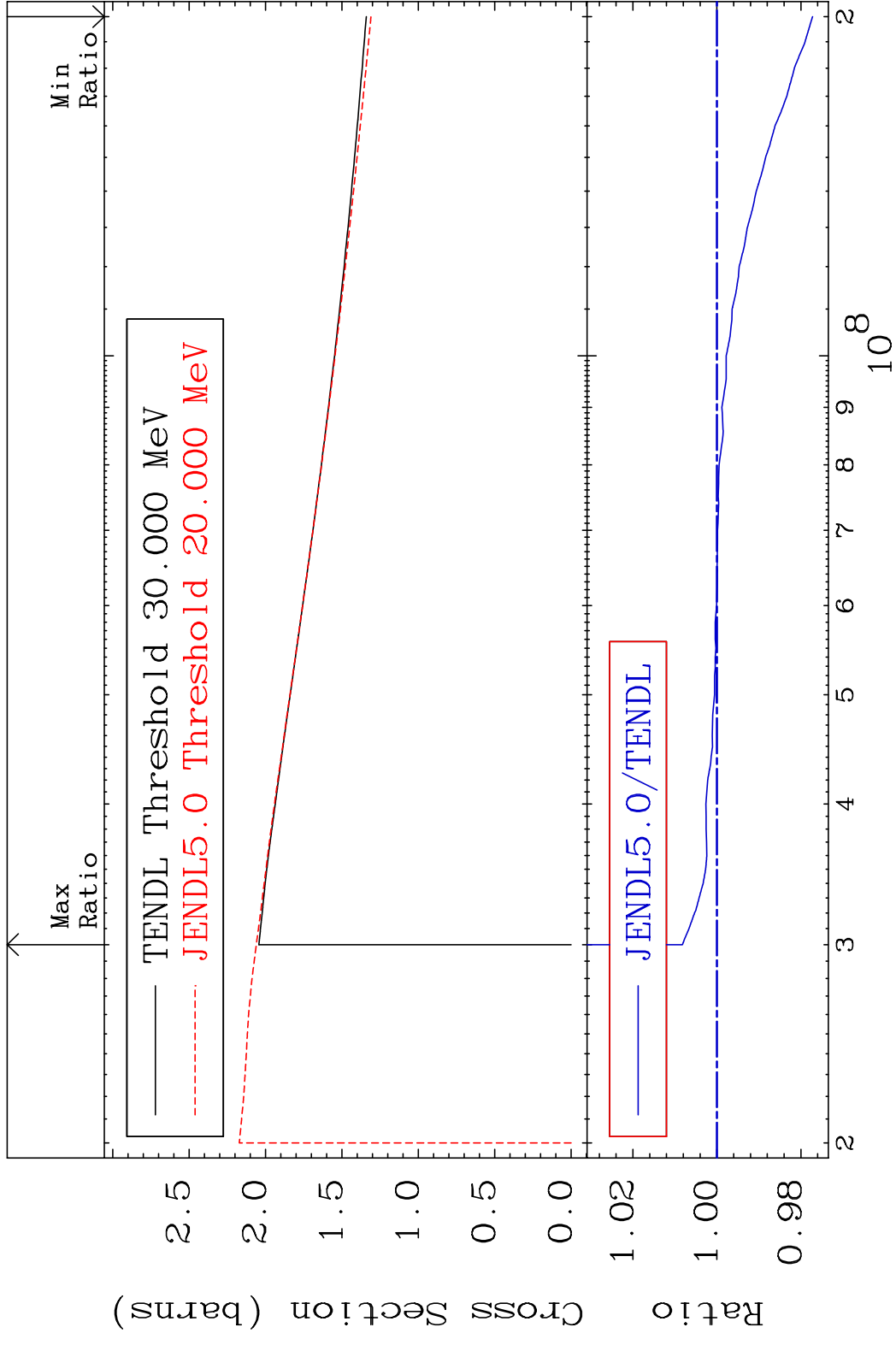


MAT 6419

(n, remainder)

64-Gd-150

Cross Section -2.277 To 0.823 %



4

Incident Energy (eV)

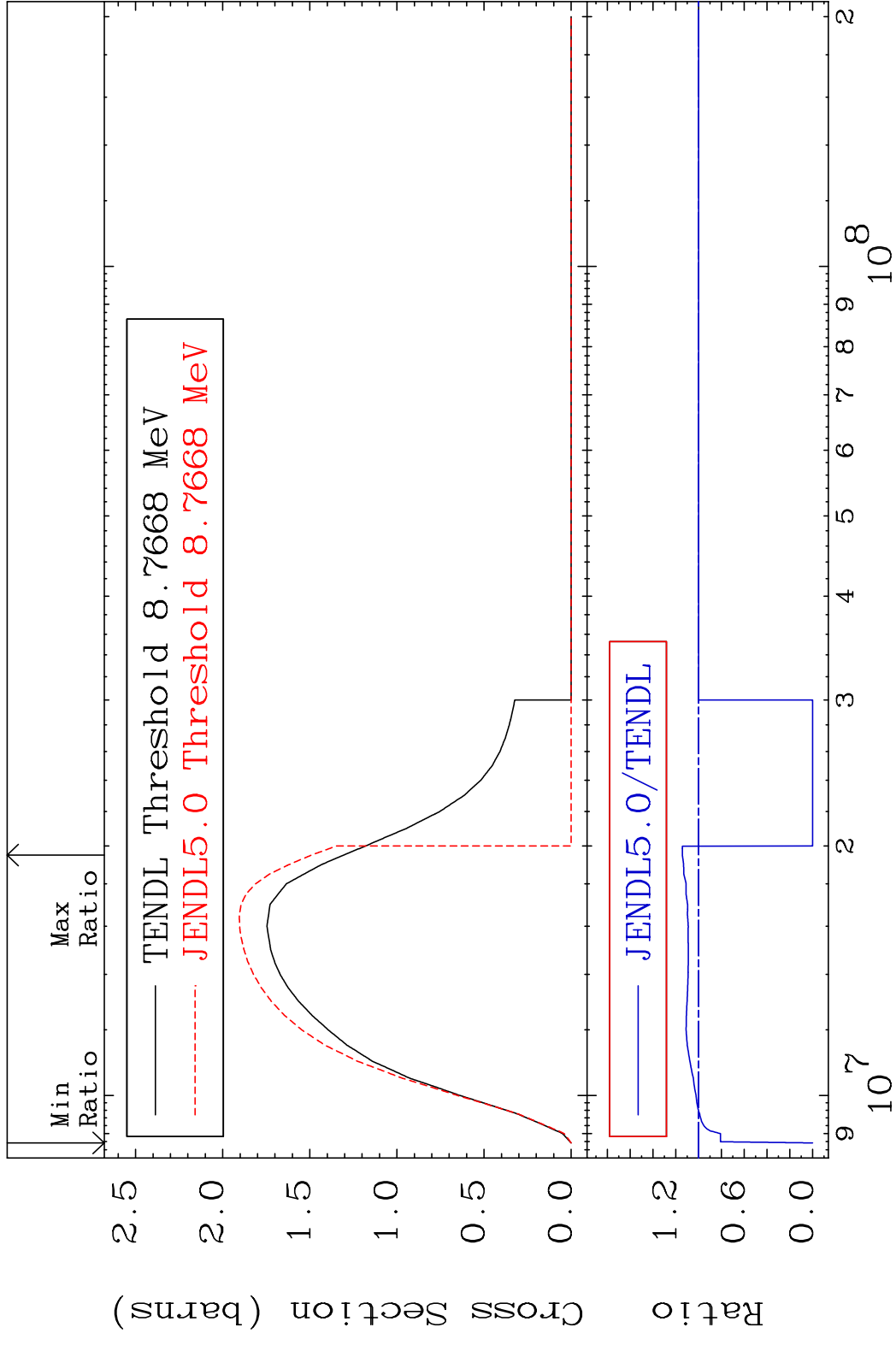
64-Gd-150

MAT 6419

(n,2n)

64-Gd-150

Cross Section -100.0 To 14.15 %

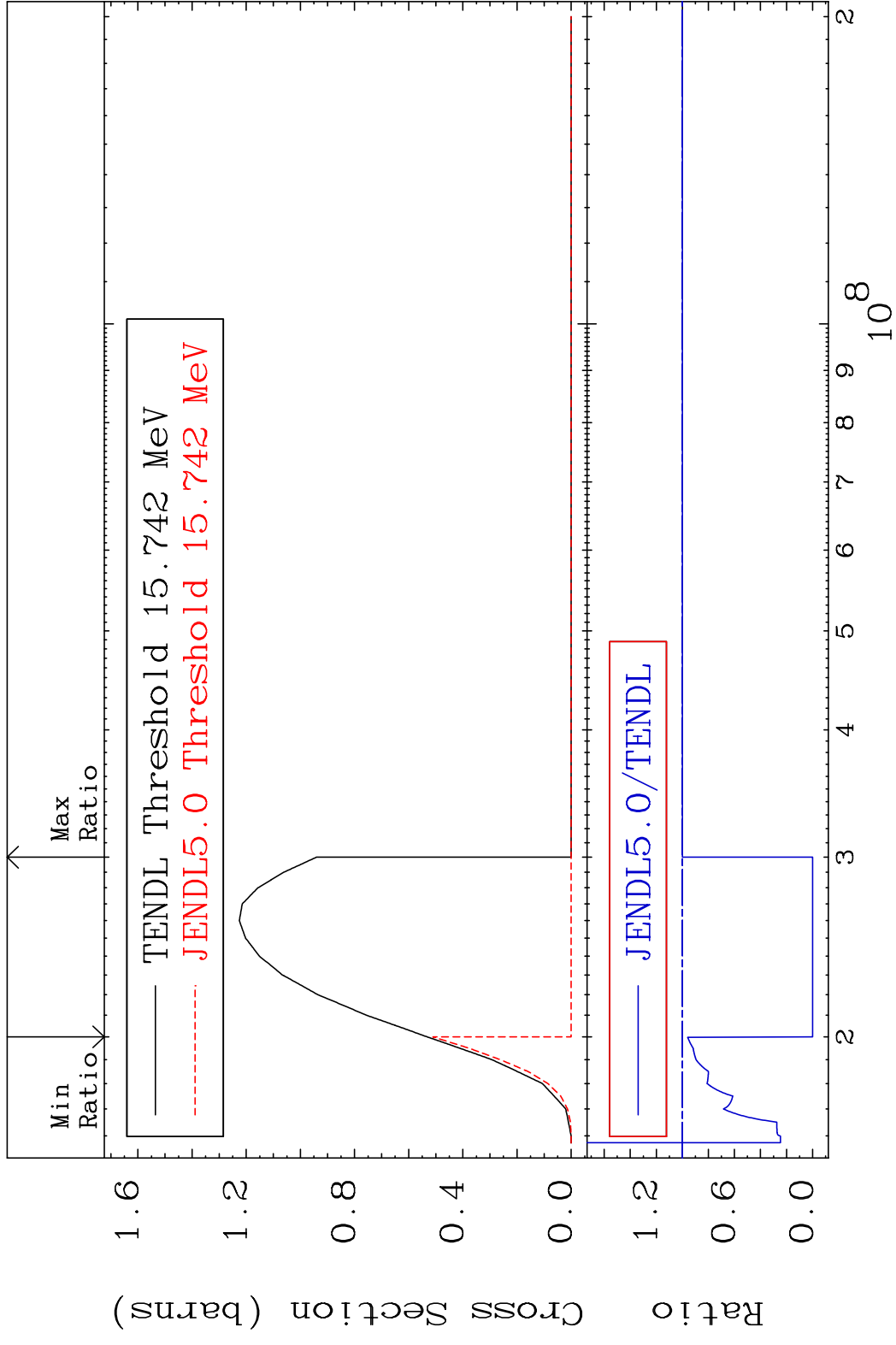


5

Incident Energy (eV)

64-Gd-150

MAT 6419 (n,3n) 64-Gd-150
 Cross Section -100.0 To 0.000 %



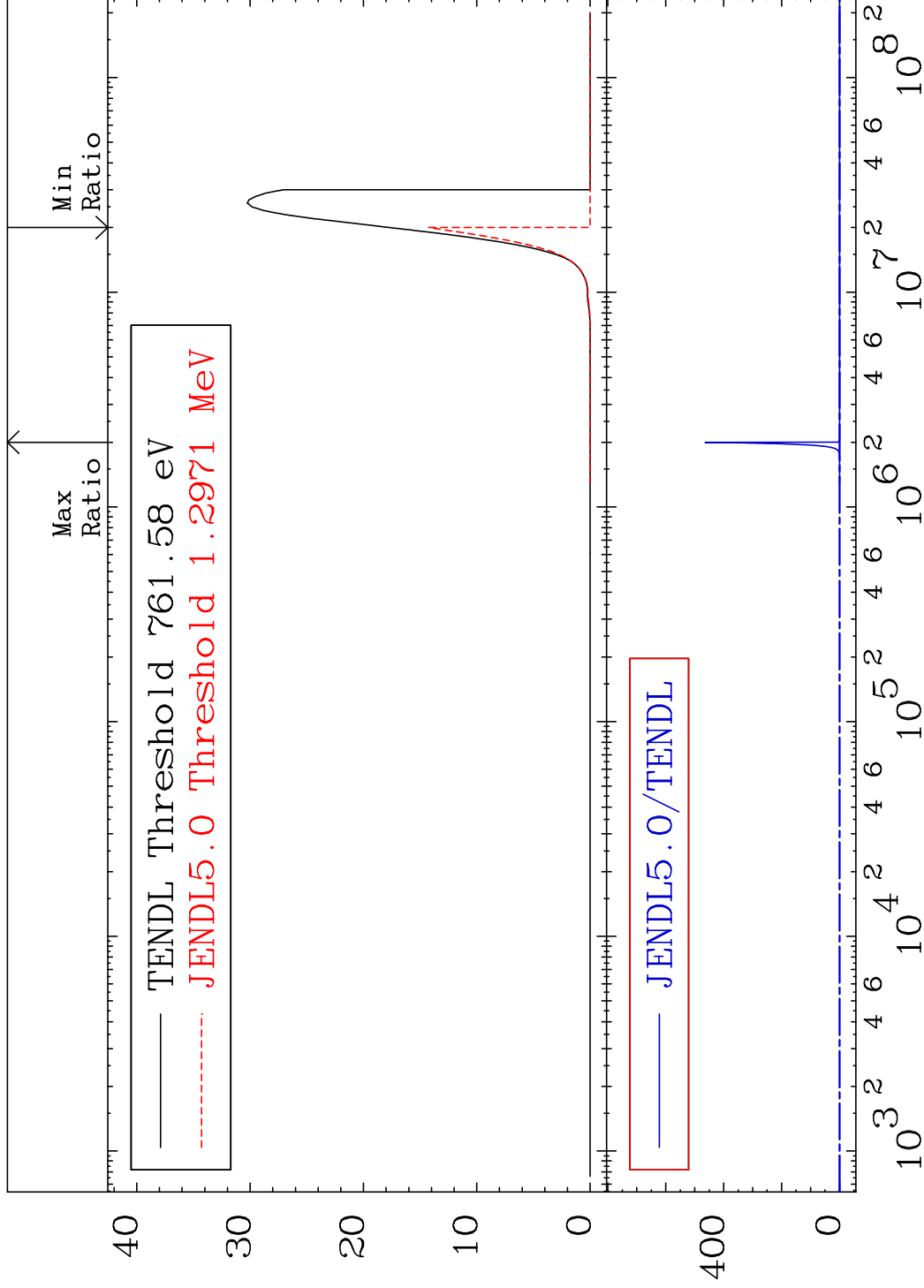
MAT 6419

64-Gd-150

(n, n') α

Cross Section -100.0 To 9999. %

Ratio Cross Section (milli-barns)

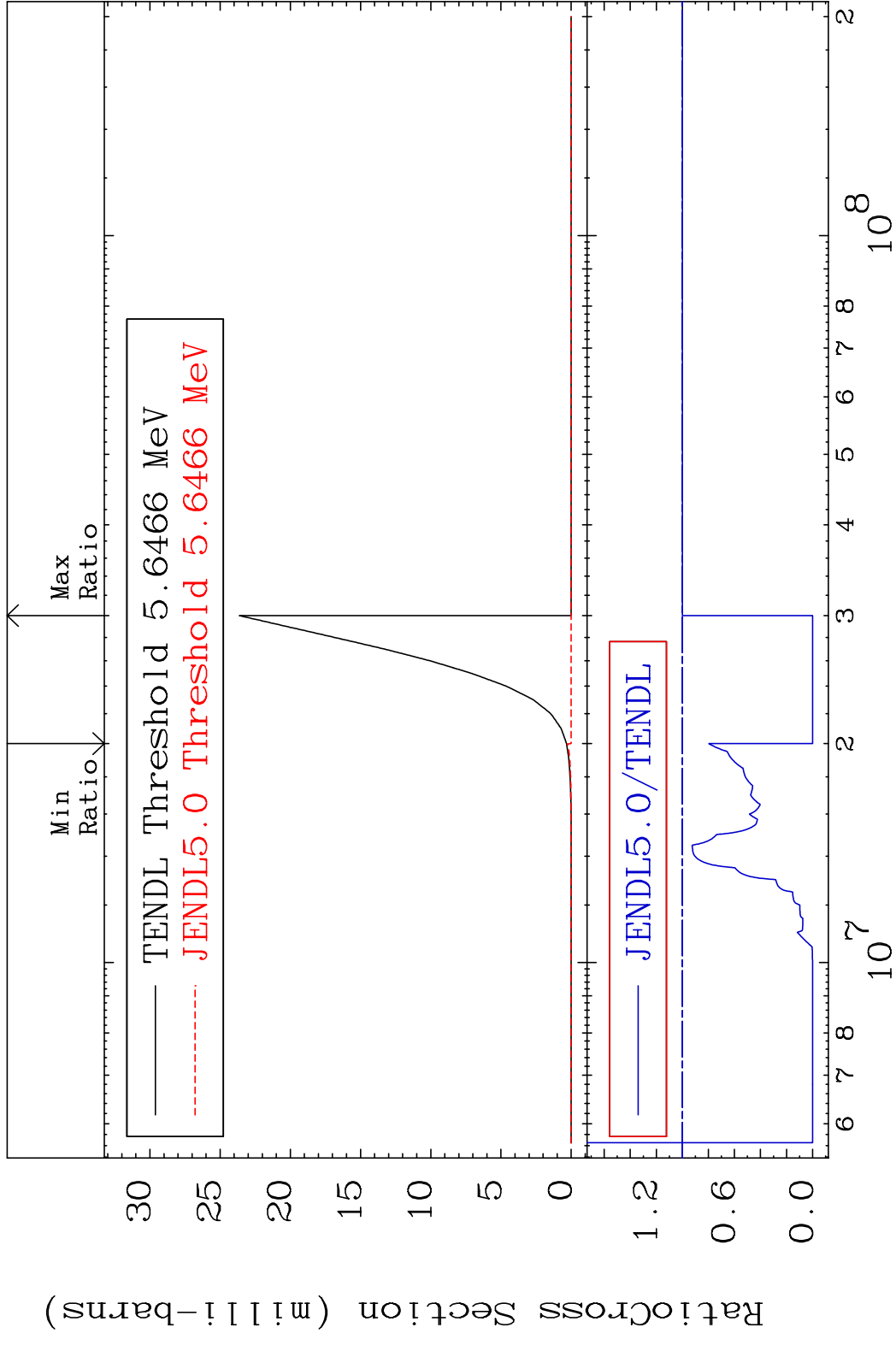


7

Incident Energy (eV)

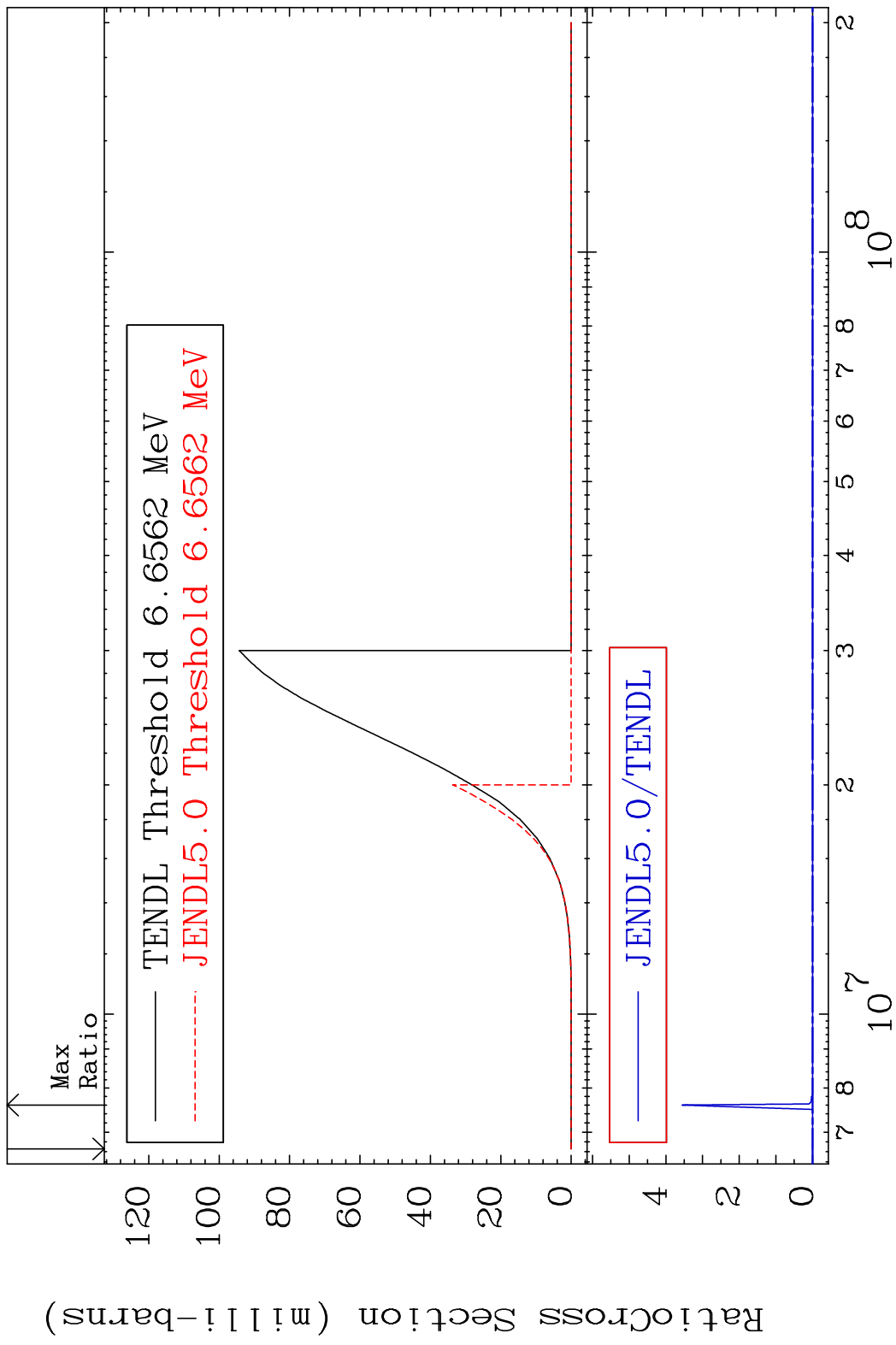
64-Gd-150

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



8 Incident Energy (eV) 64-Gd-150

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



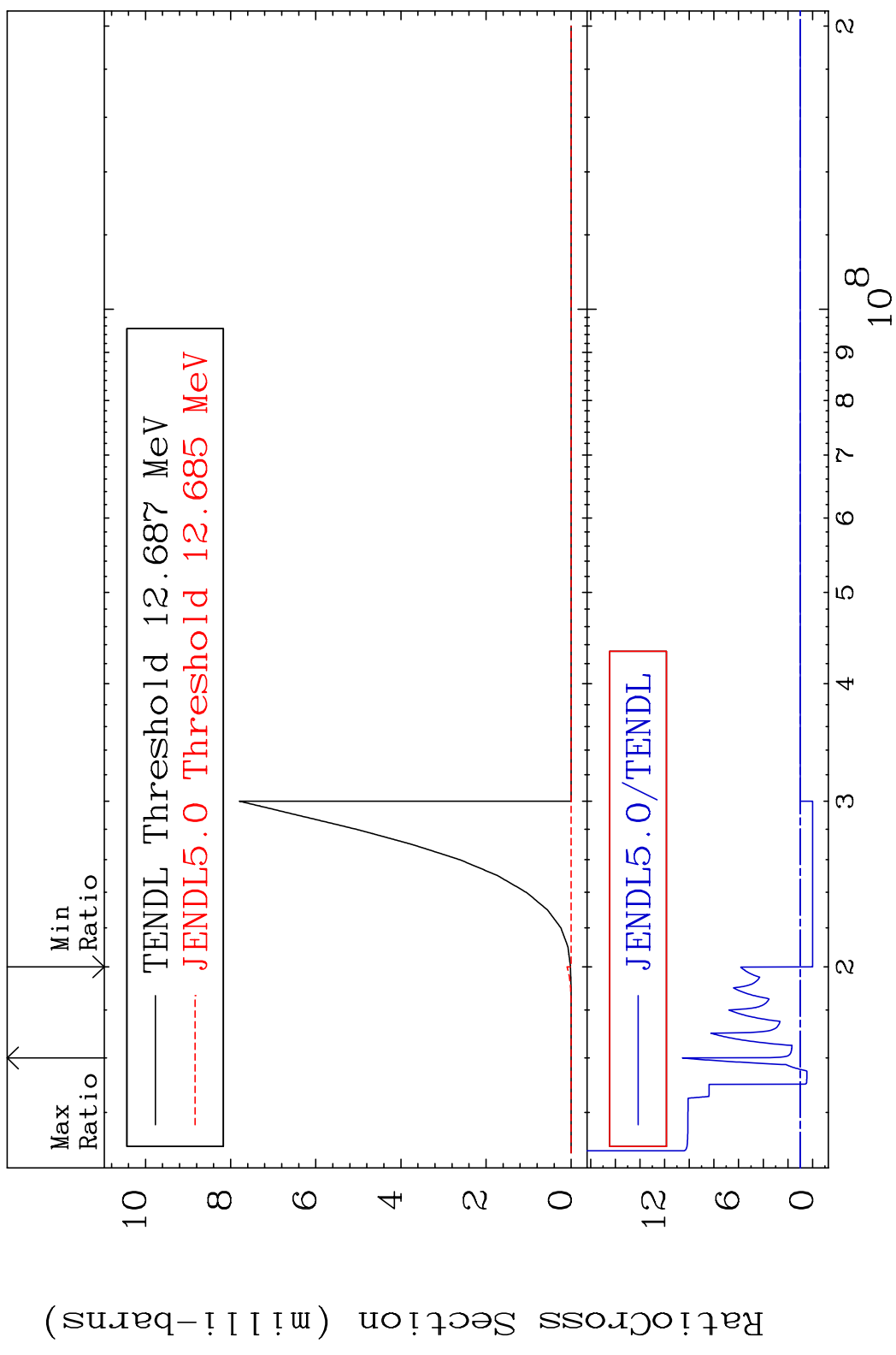
9 Incident Energy (eV) 64-Gd-150

MAT 6419

(n, n') d

64-Gd-150

Cross Section -100.0 To 956.3 %

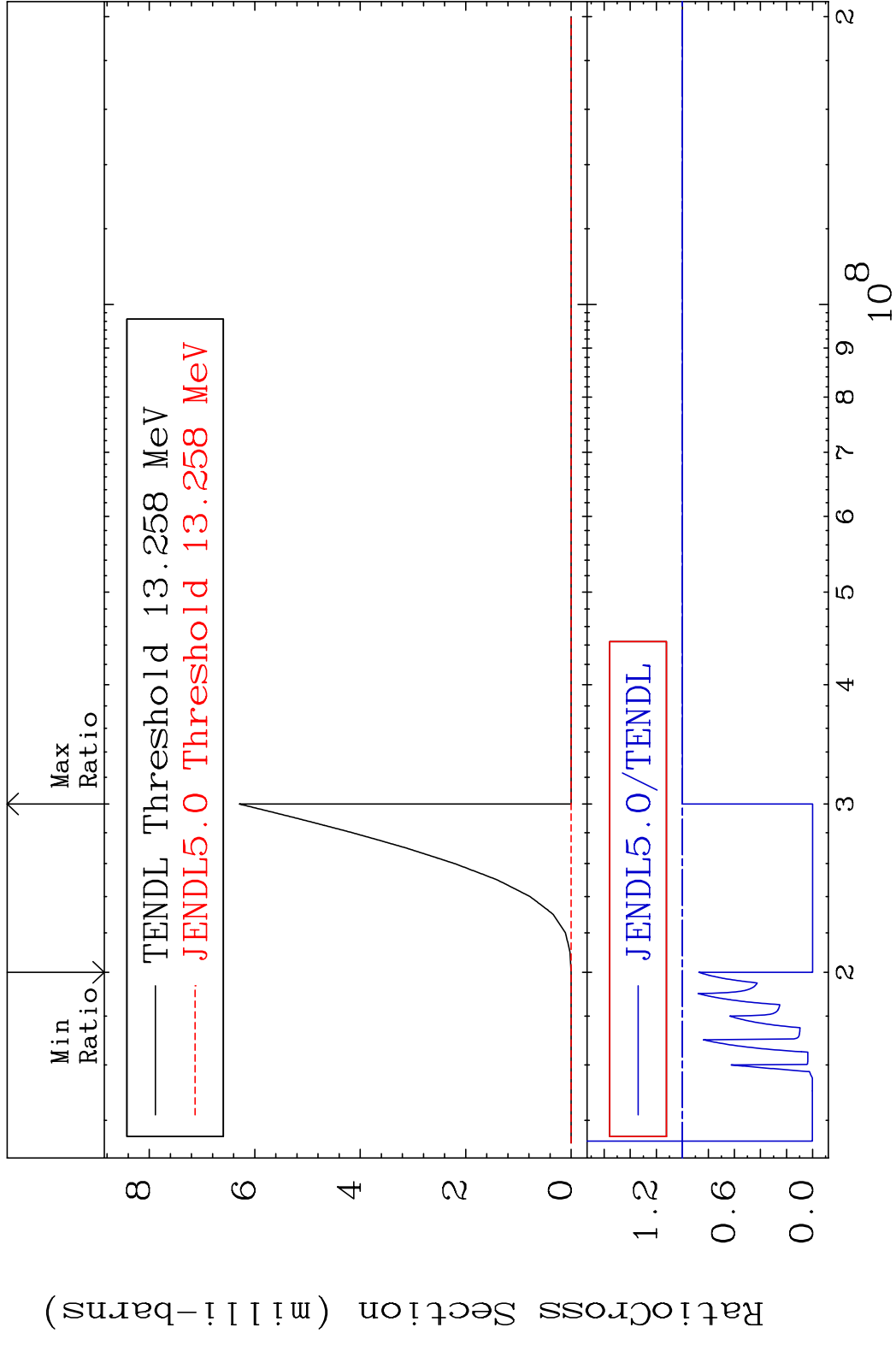


10

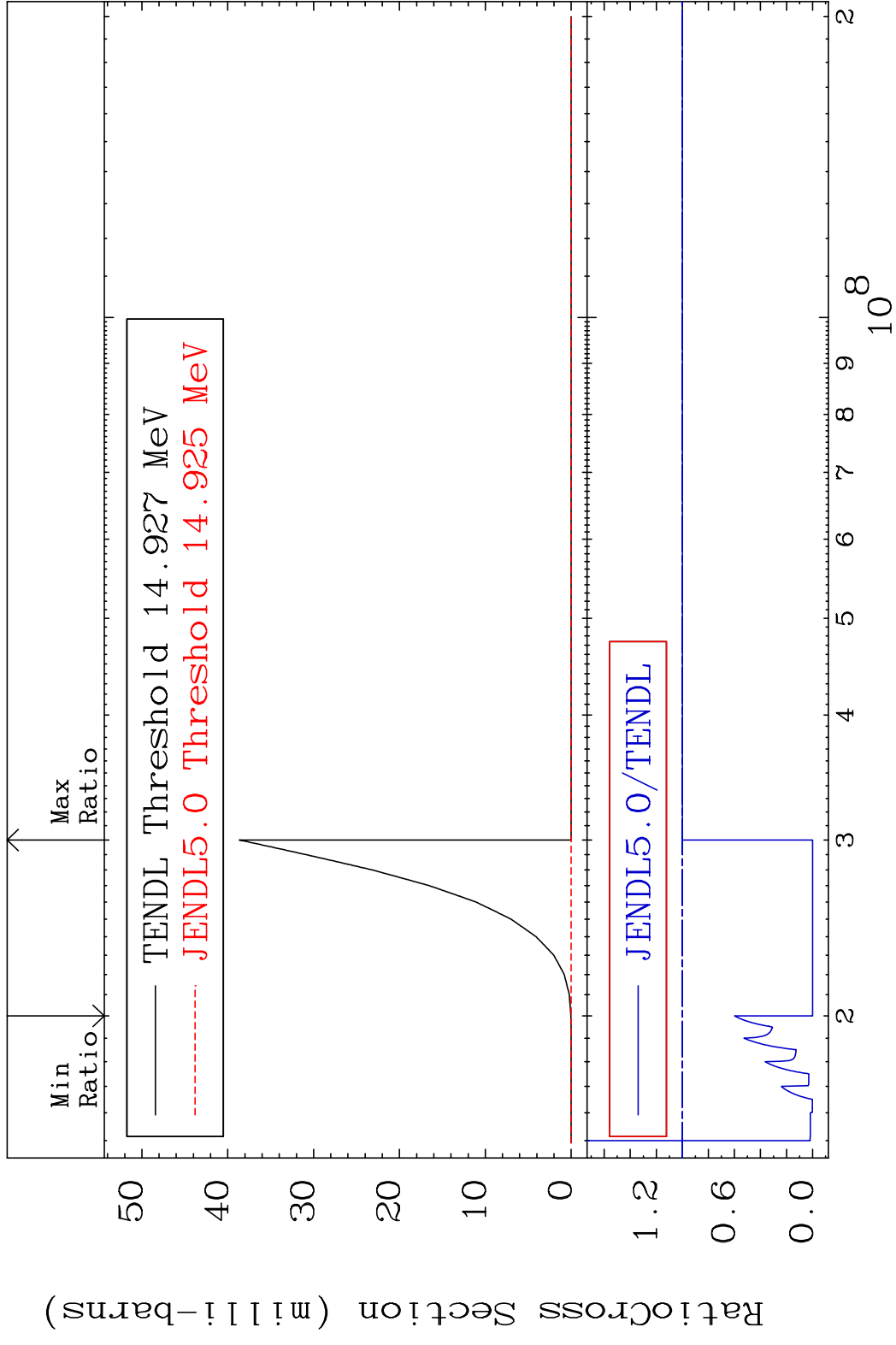
Incident Energy (eV)

64-Gd-150

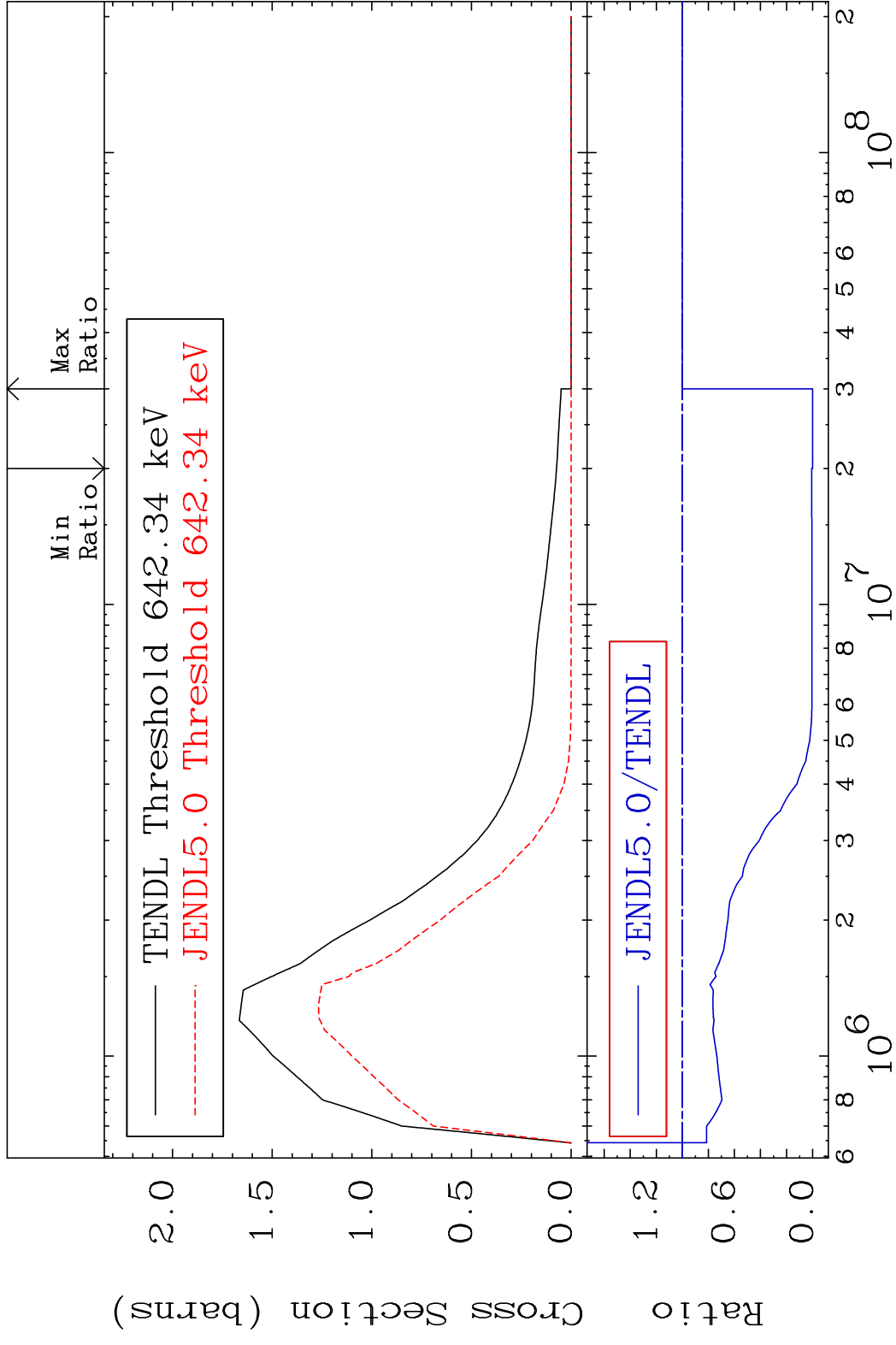
MAT 6419 (n, n') t 64-Gd-150
 Cross Section -100.0 To 0.000 %



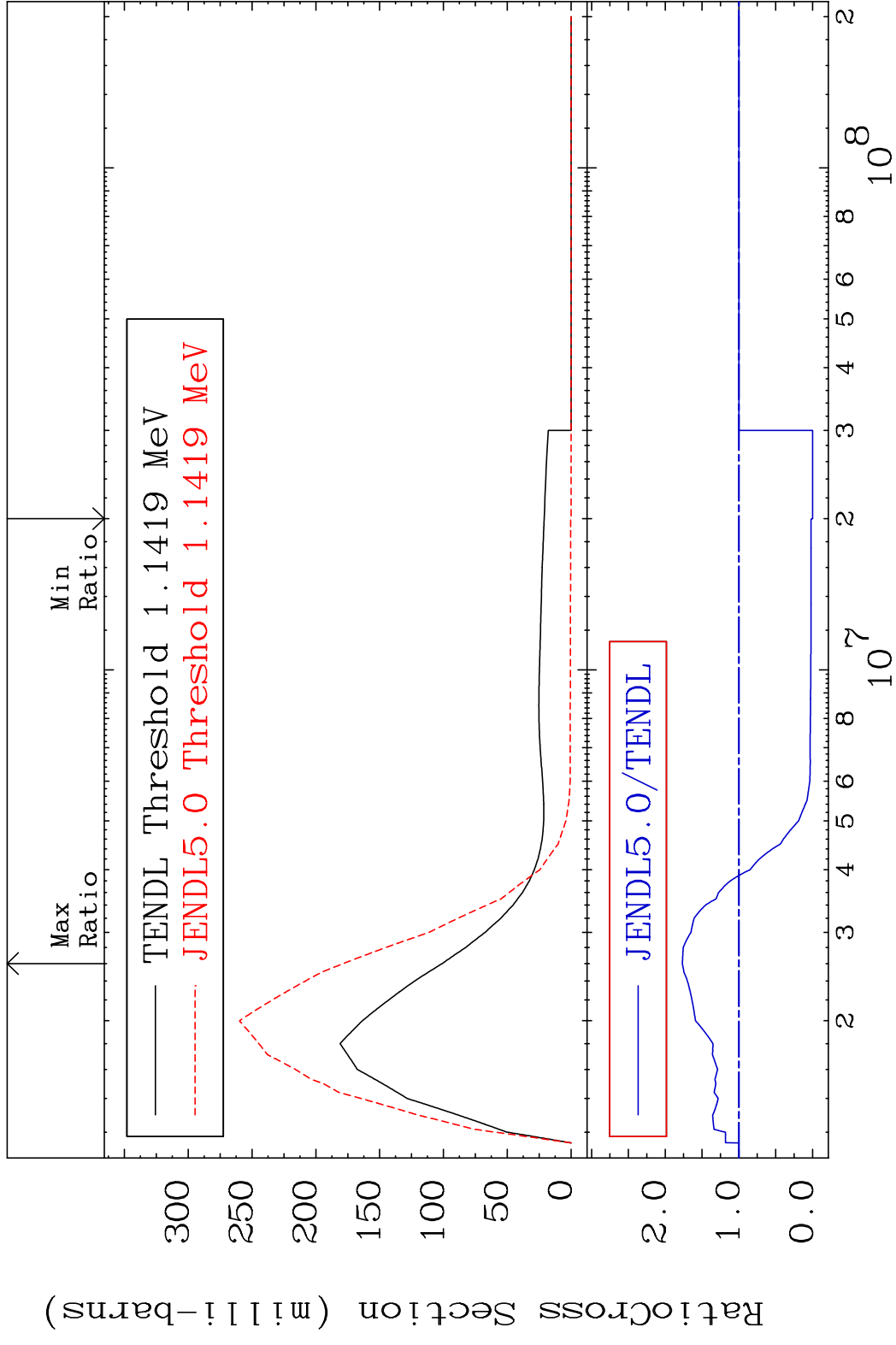
MAT 6419 (n,2n) p 64-Gd-150
 Cross Section -100.0 To 0.000 %



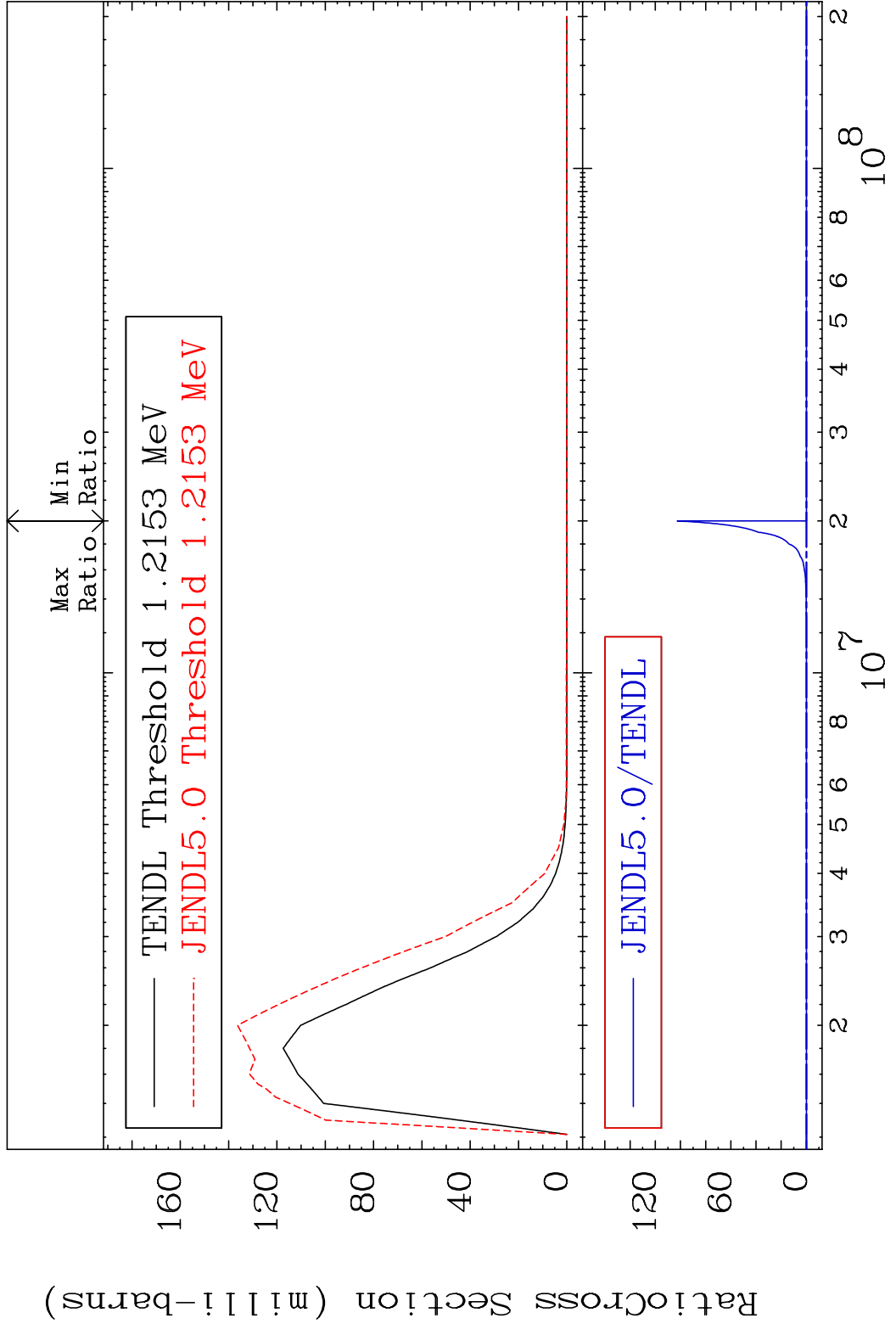
MAT 6419 MT= 51 (n, n') Level 64-Gd-150
 Cross Section -100.0 To 0.000 %



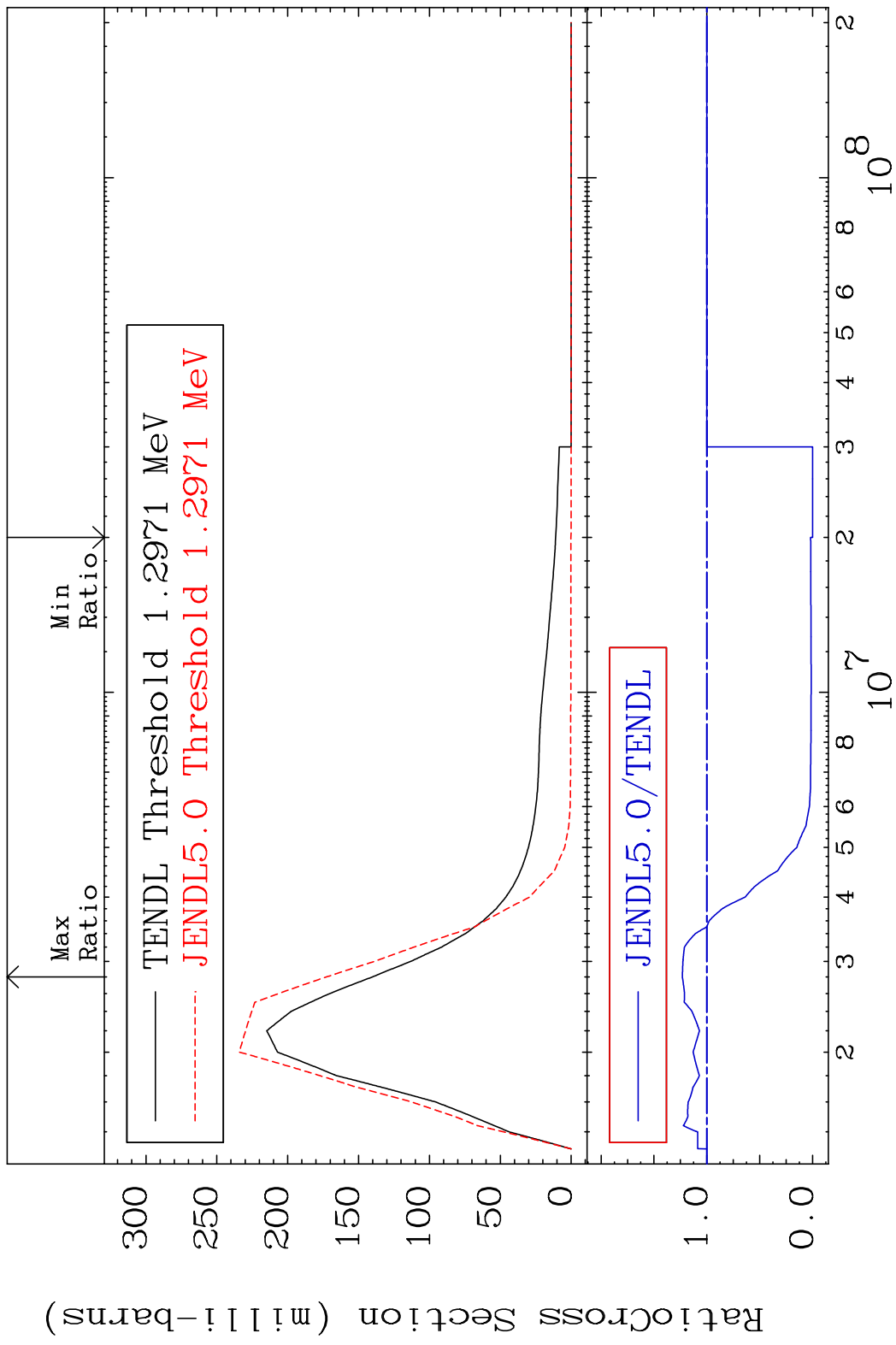
MAT 6419 MT= 52 (n, n') Level 64-Gd-150
 Cross Section -100.0 To 76.73 %



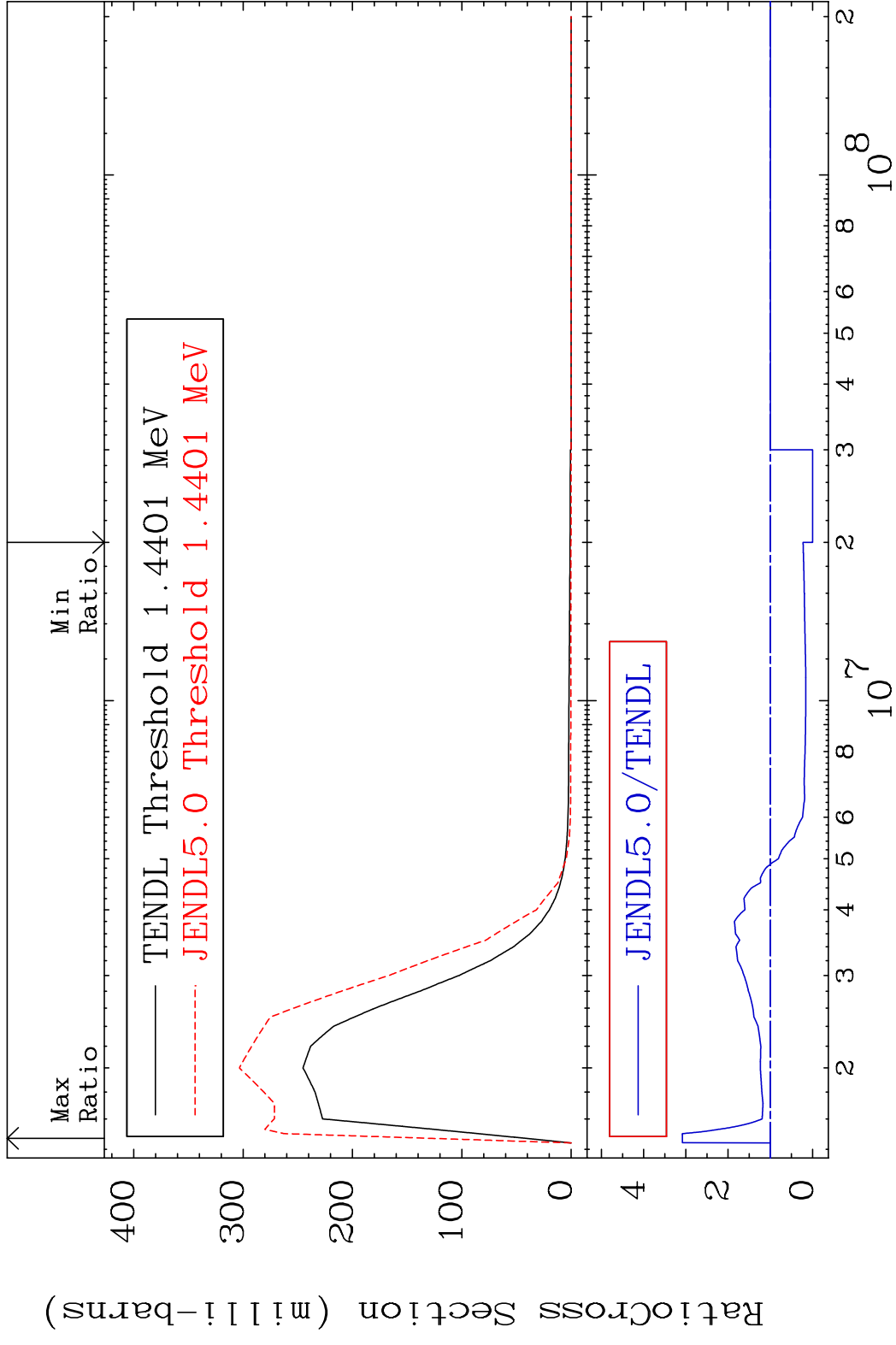
MAT 6419 MT= 53 (n, n') Level 64-Gd-150
 Cross Section -100.0 To 9999. %



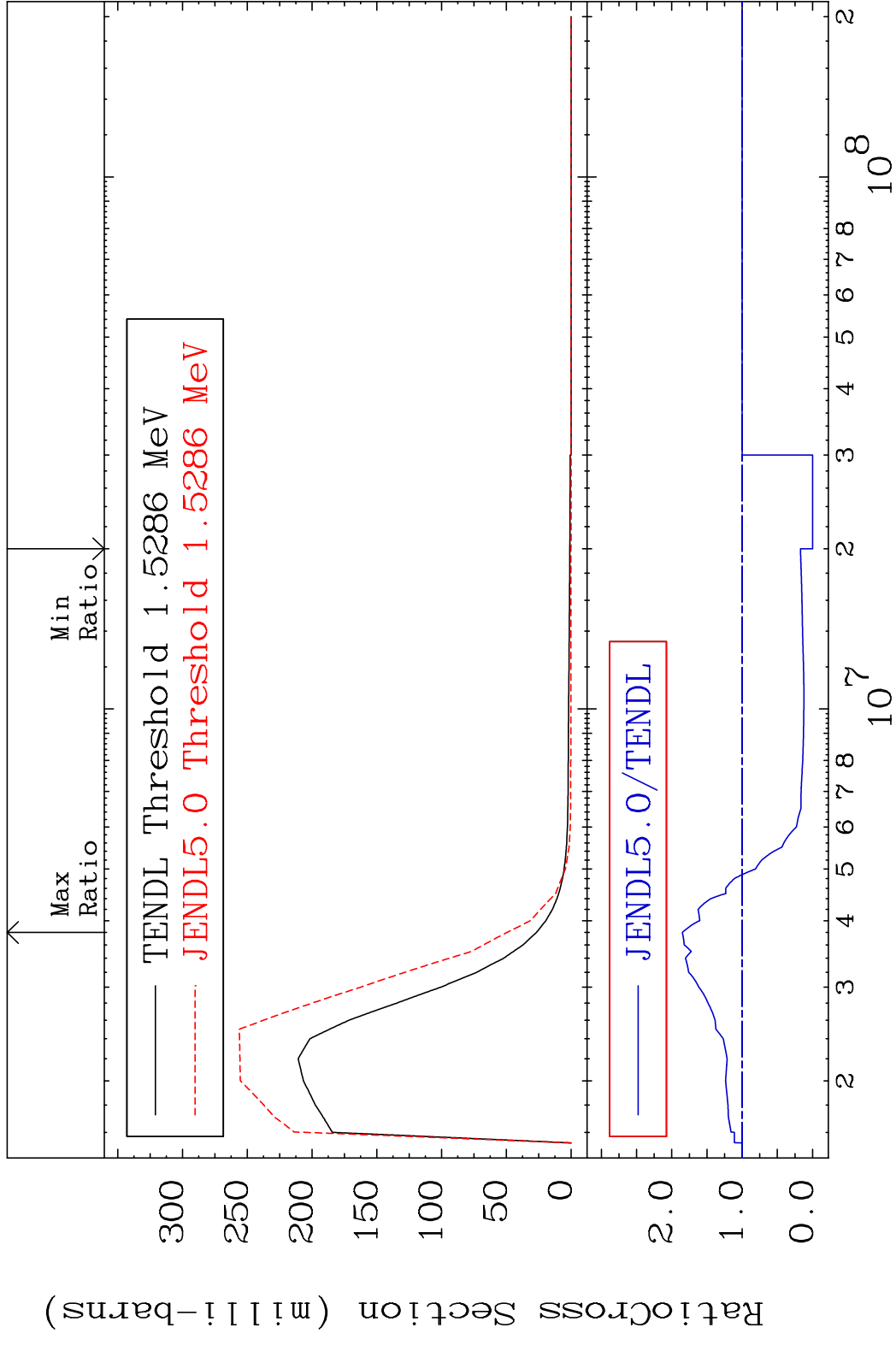
MAT 6419 MT= 54 (n, n') Level 64-Gd-150
 Cross Section -100.0 To 23.16 %



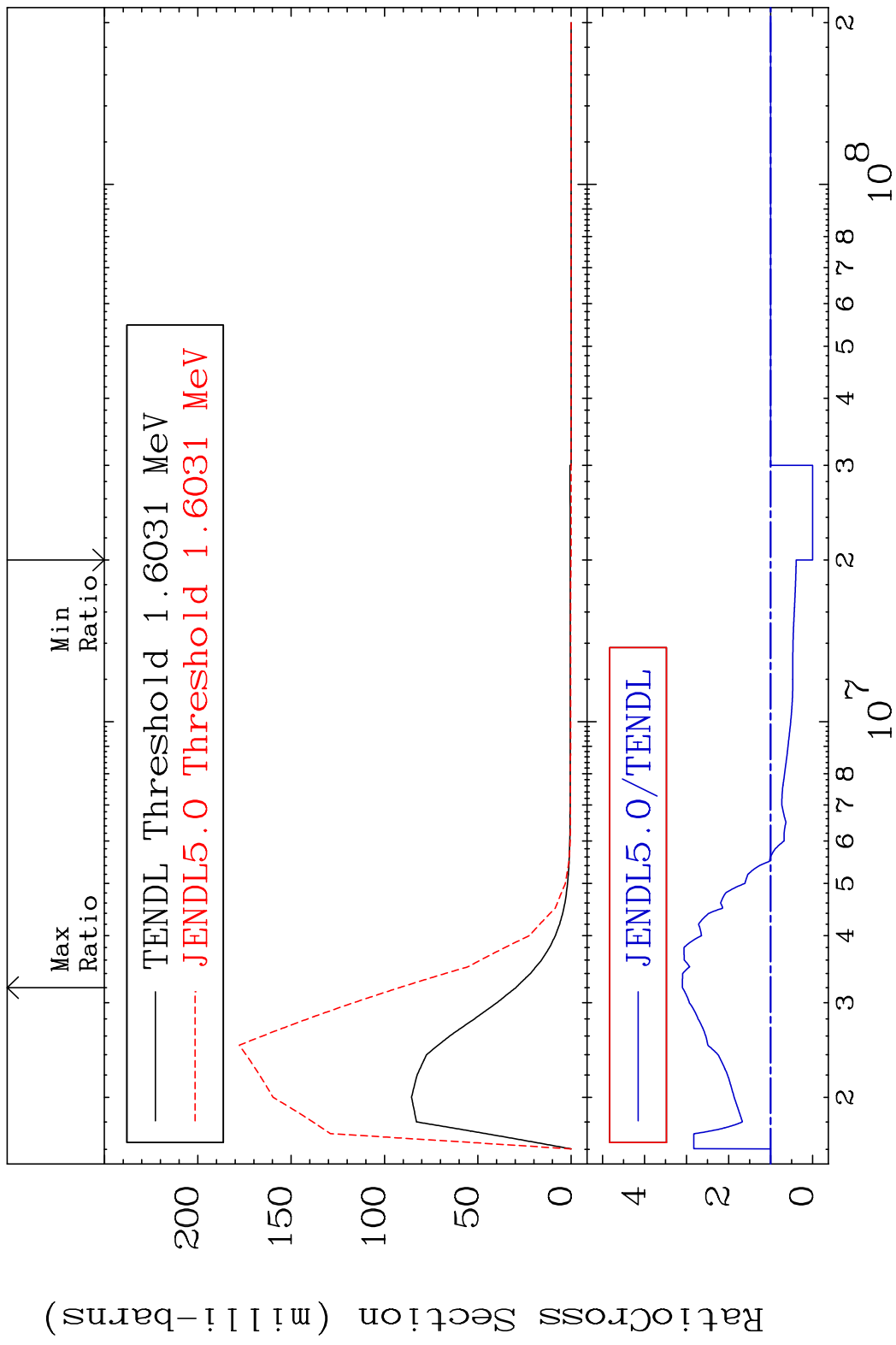
MAT 6419 MT= 55 (n, n') Level 64-Gd-150
 Cross Section -100.0 To 208.3 %



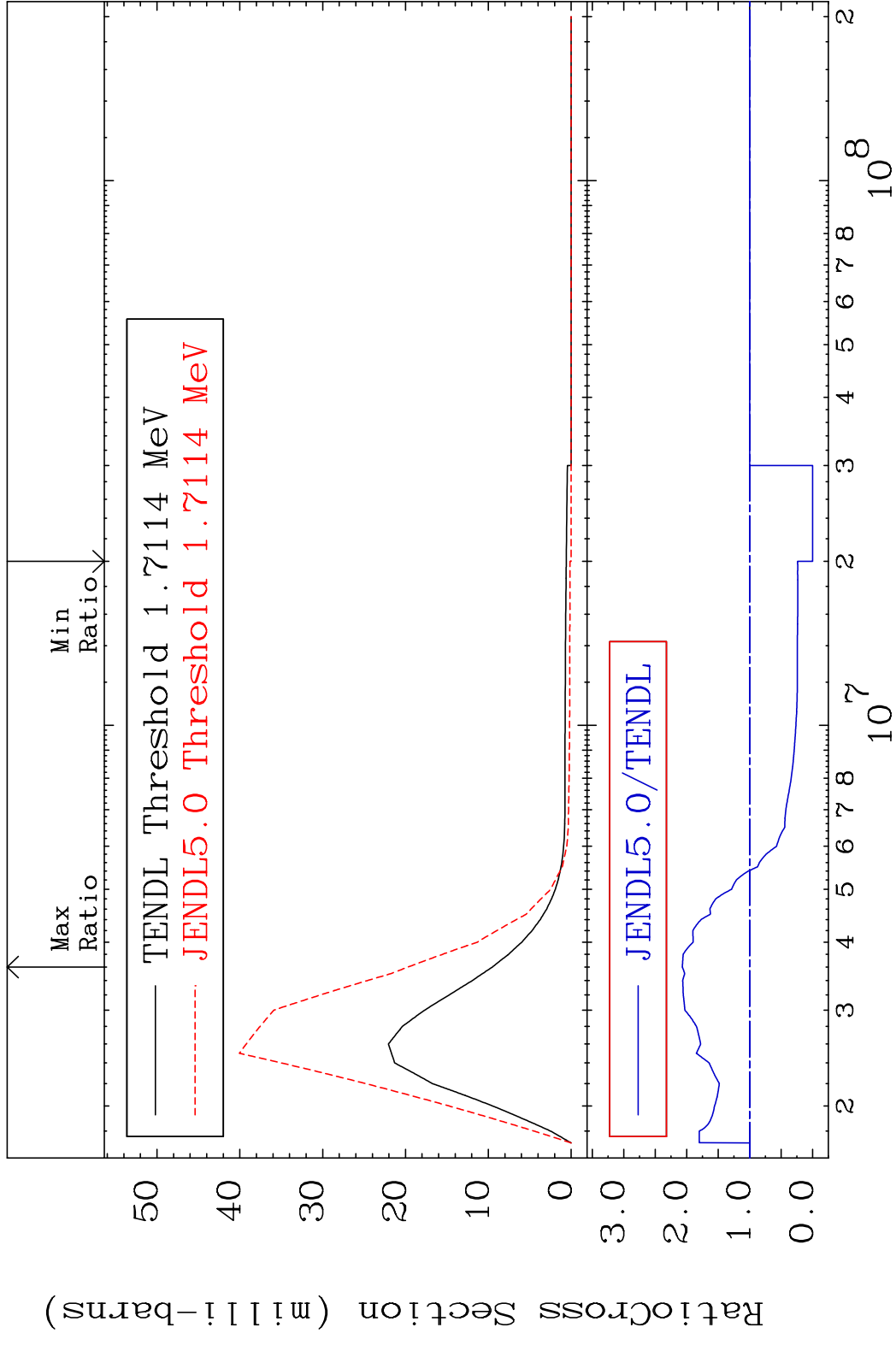
MAT 6419 MT= 56 (n, n') Level 64-Gd-150
 Cross Section -100.0 To 84.95 %



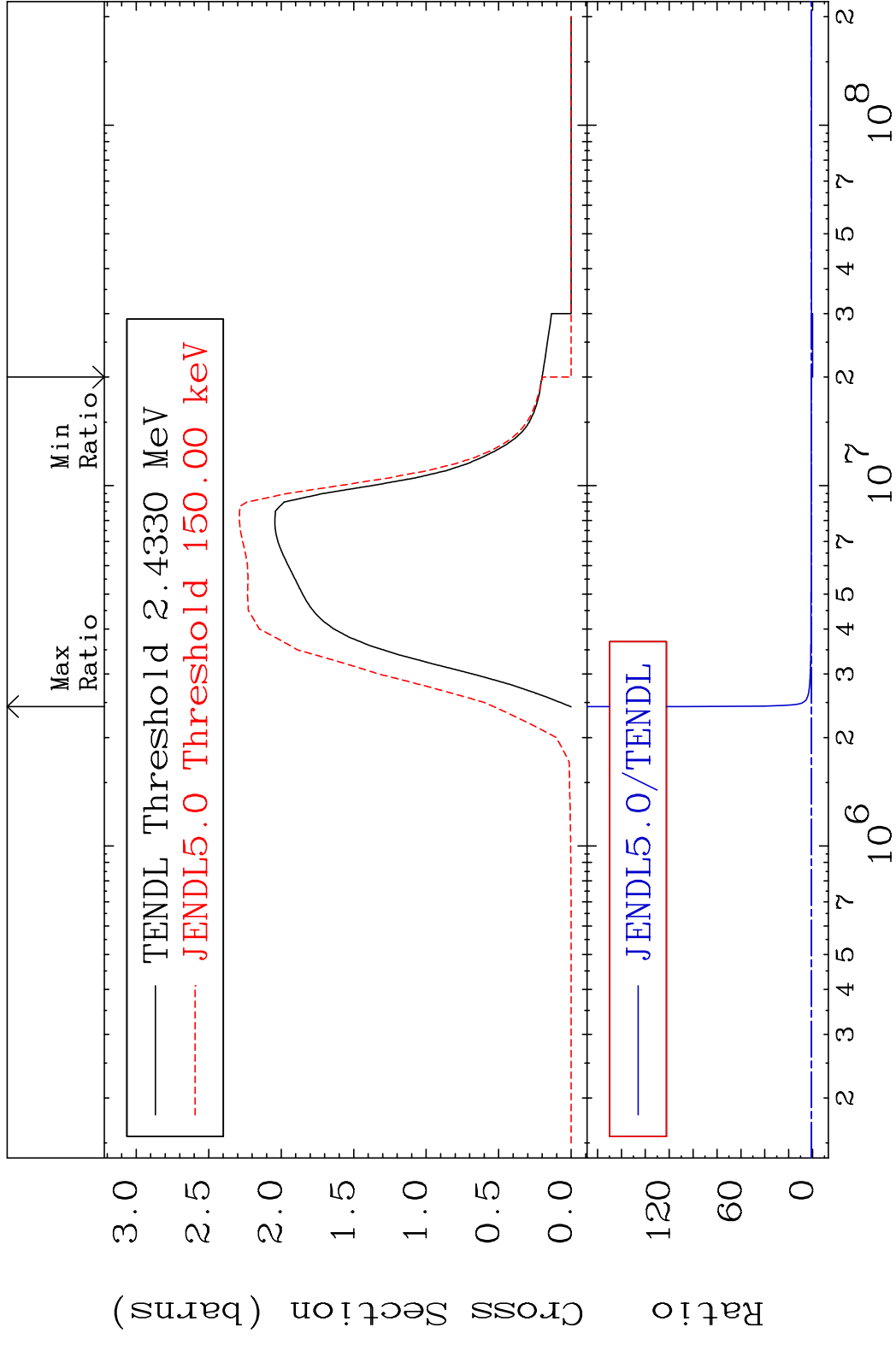
MAT 6419 MT= 57 (n, n') Level 64-Gd-150
 Cross Section -100.0 To 210.1 %



MAT 6419 MT= 58 (n, n') Level 64-Gd-150
 Cross Section -100.0 To 106.9 %

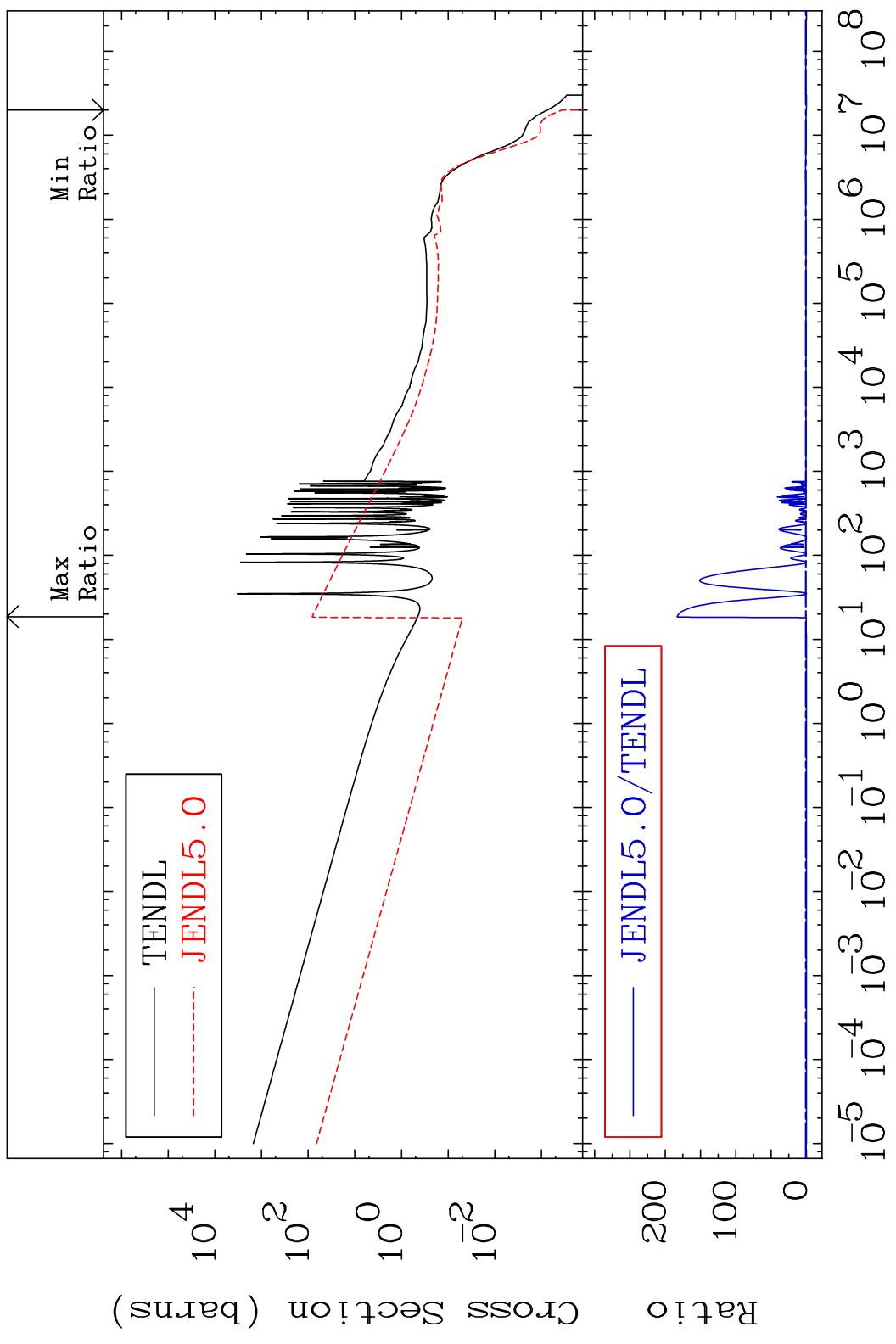


20 20 64-Gd-150



MAT 6419

(n, γ)
Cross Section -100.0 To 9999. %
64-Gd-150

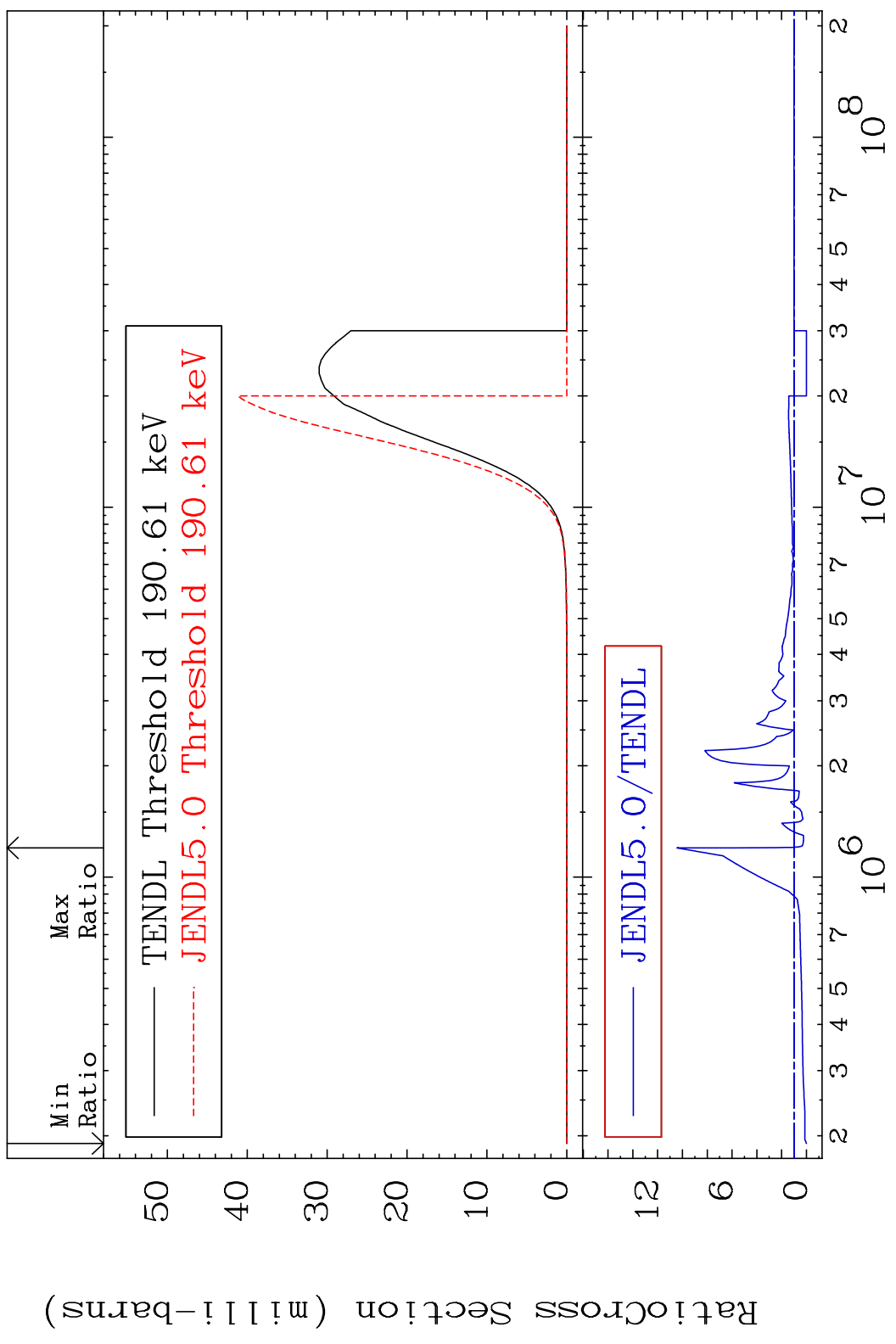


MAT 6419

(n,p)

64-Gd-150

Cross Section -100.0 To 942.3 %

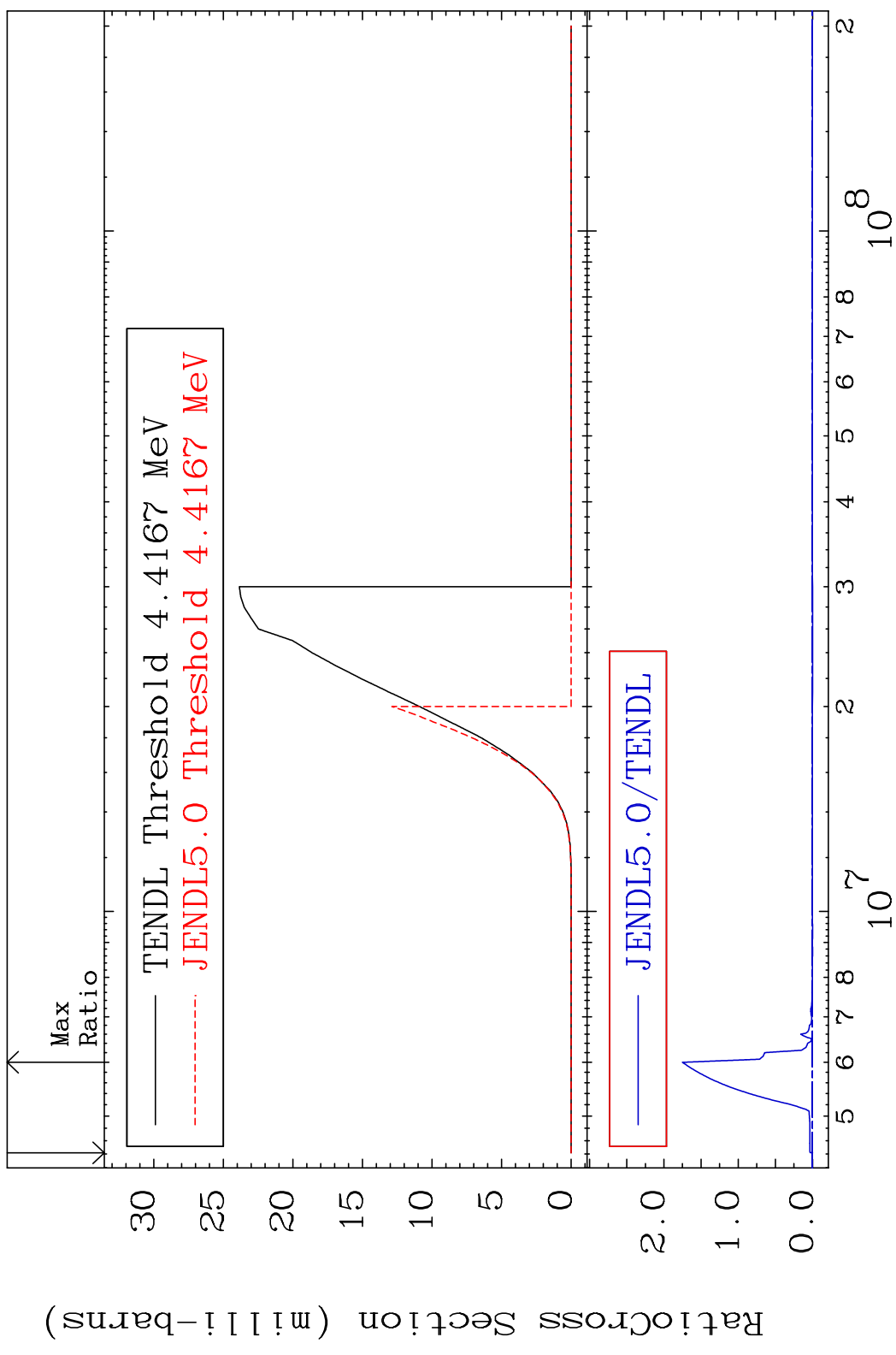


MAT 6419

(n,d)

64-Gd-150

Cross Section -100.0 To 9999. %

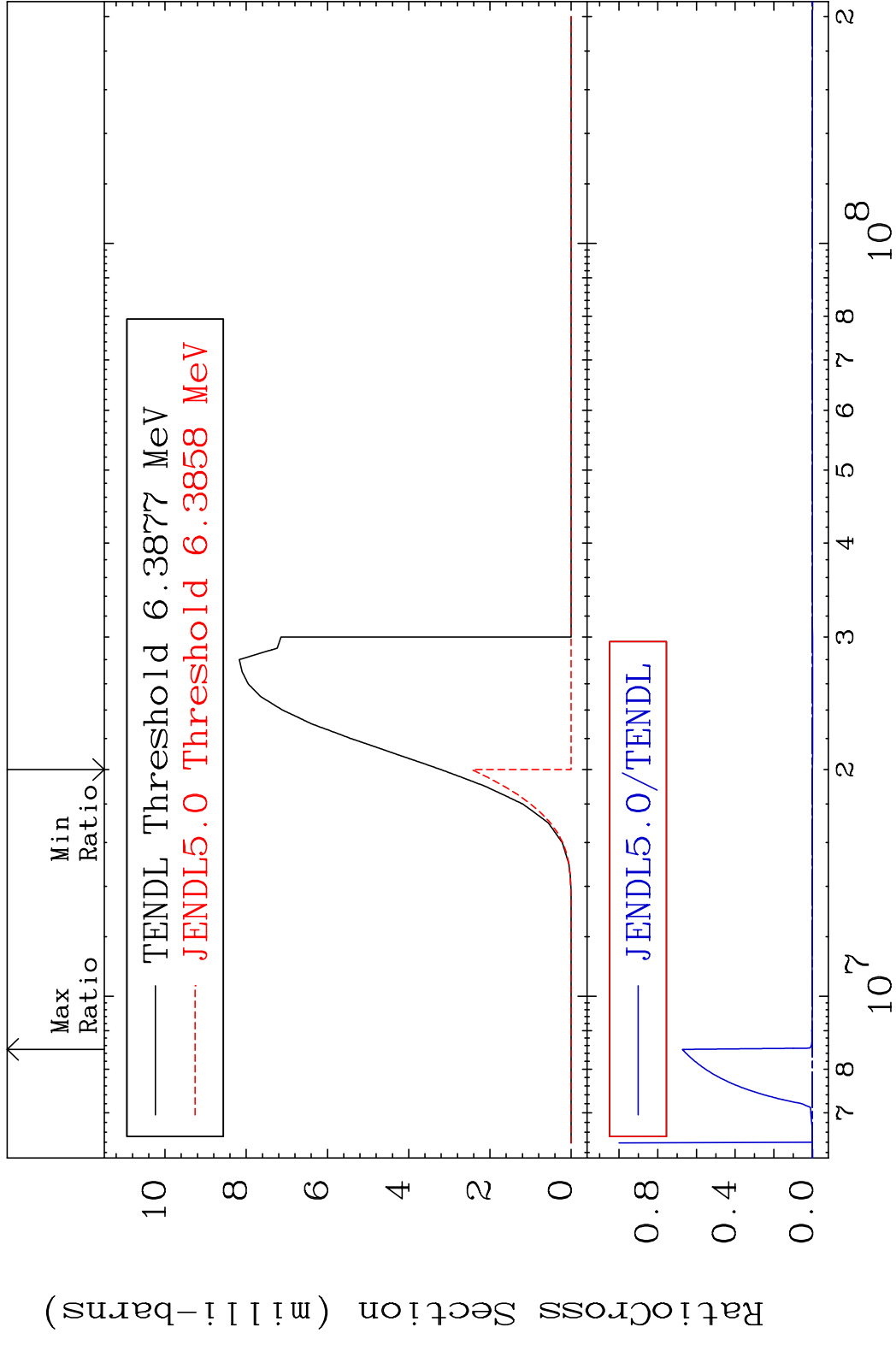


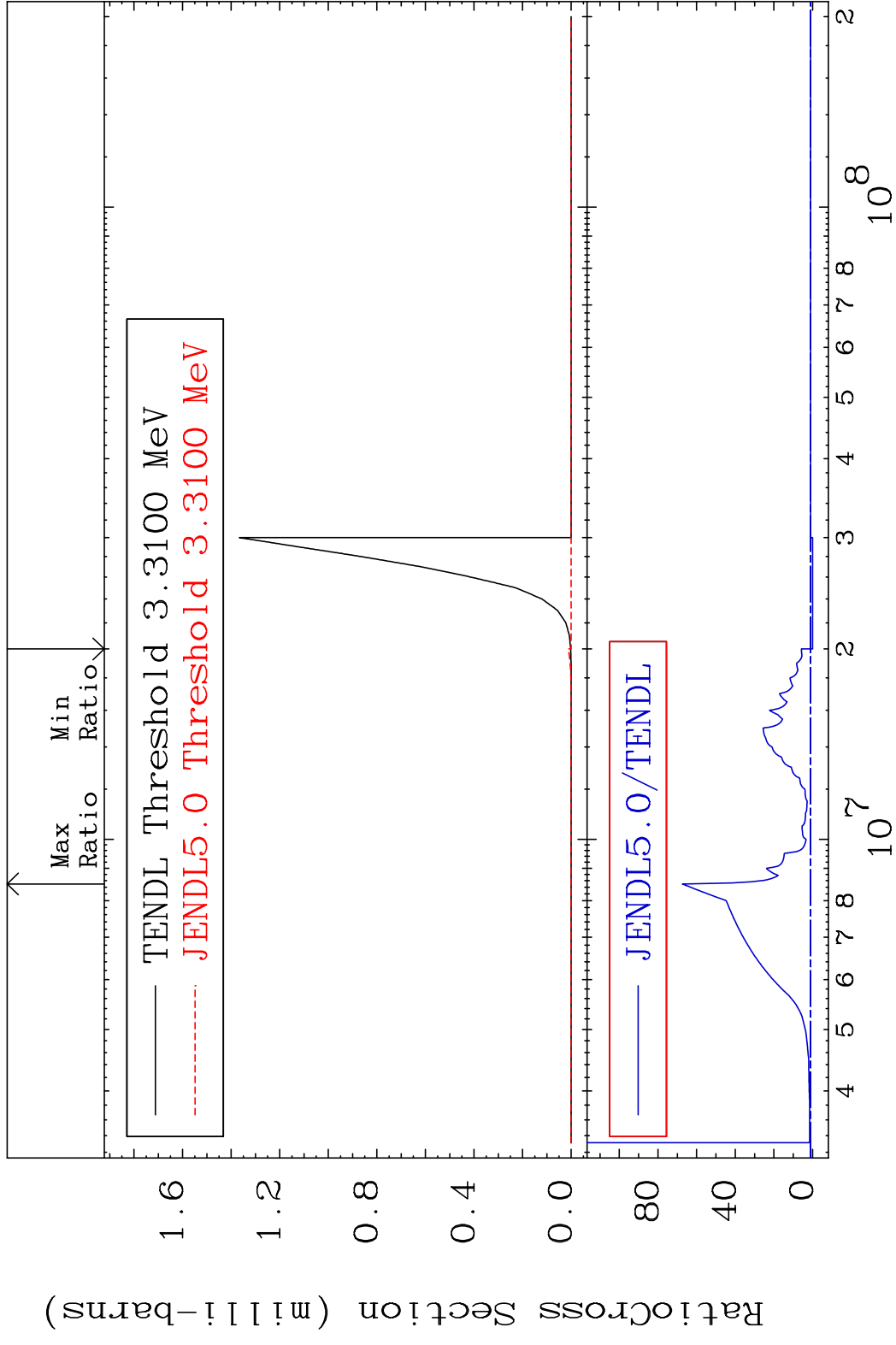
MAT 6419

64-Gd-150

(n, t)

Cross Section -100.0 To 9999. %

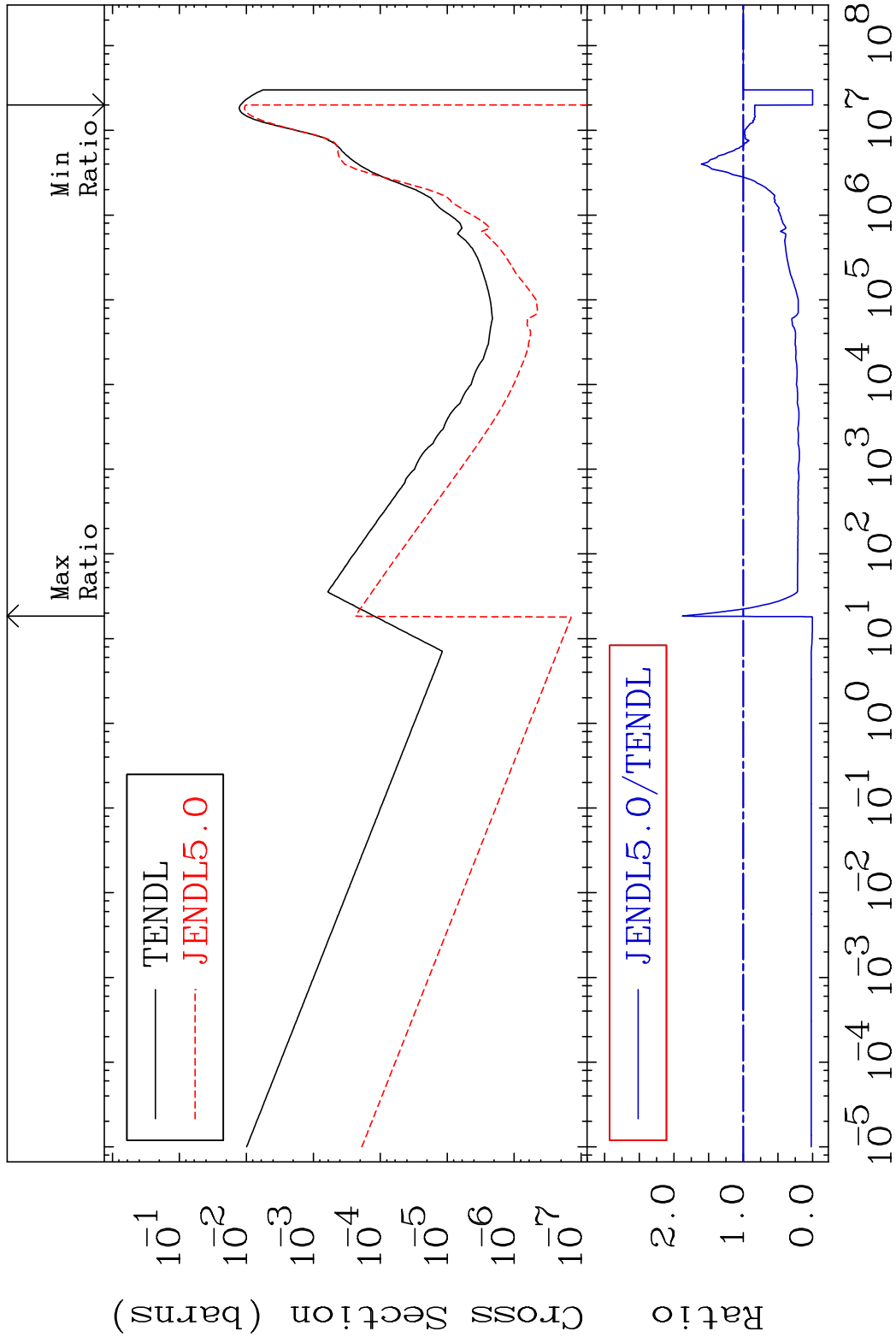




MAT 6419

(n, α)
Cross Section -100.0 To 87.91 %

64-Gd-150



27

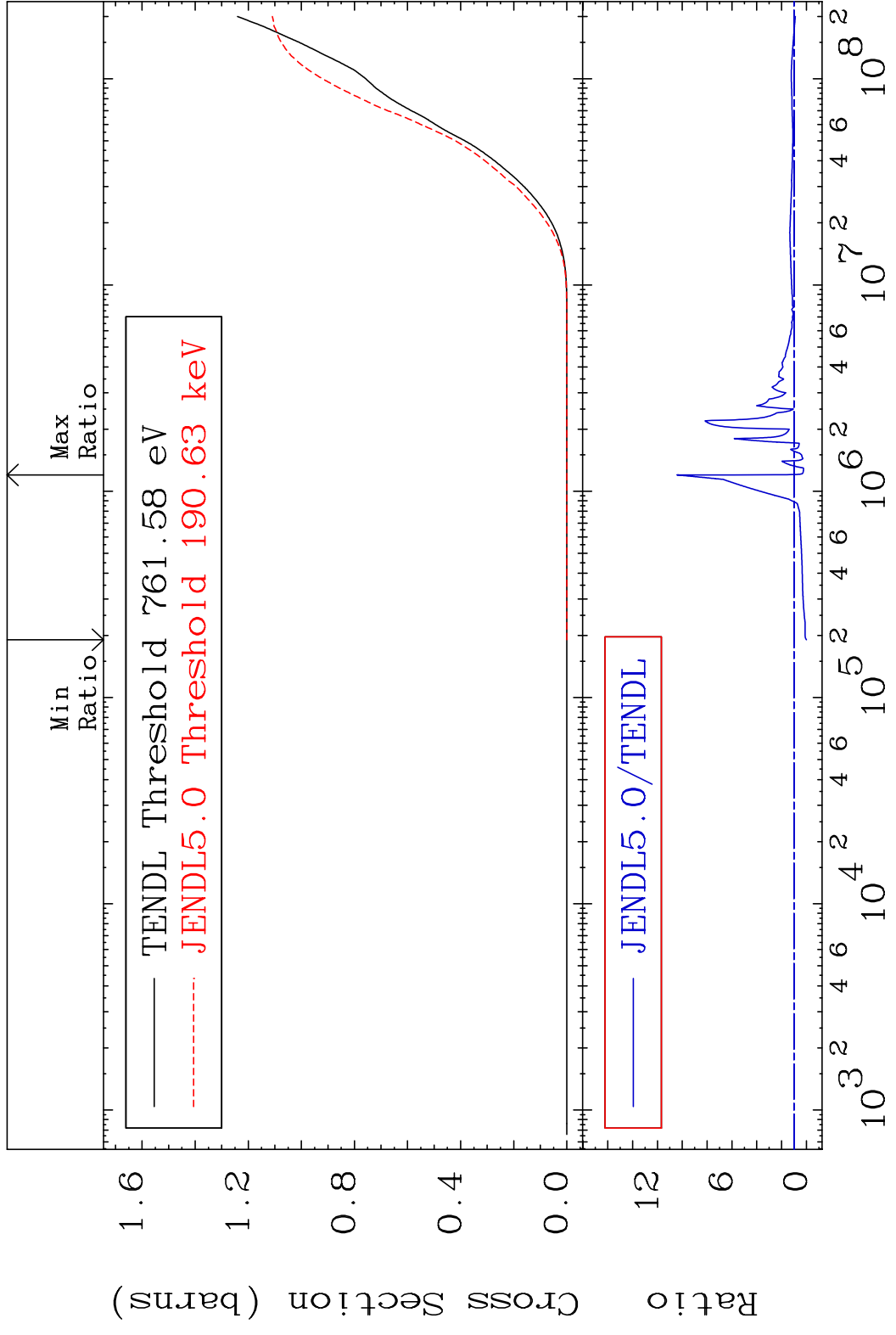
Incident Energy (eV)

64-Gd-150

MAT 6419

Hydrogen Production
Cross Section -100.0 To 941.0 %

64-Gd-150

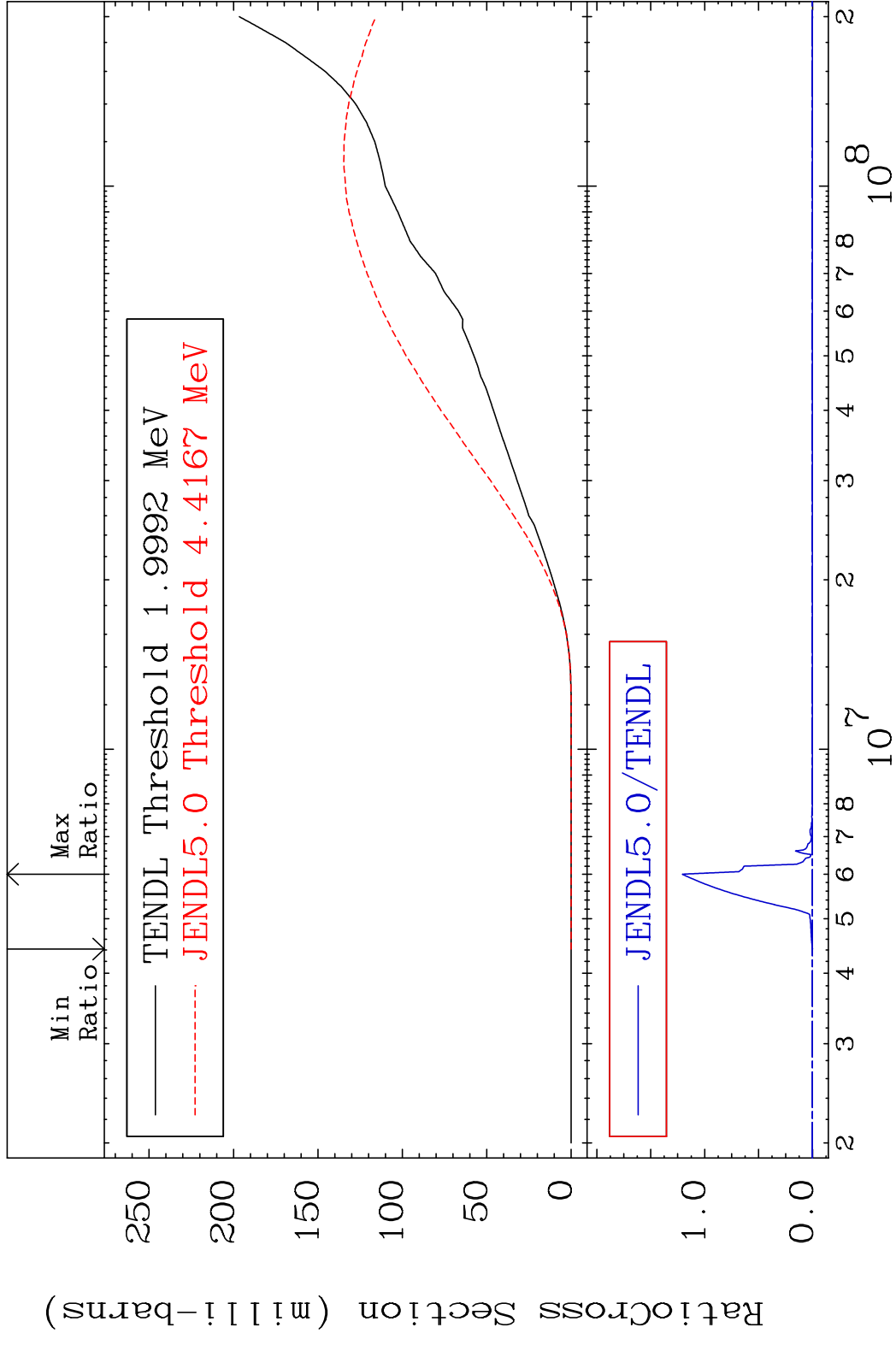


28

Incident Energy (eV)

64-Gd-150

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

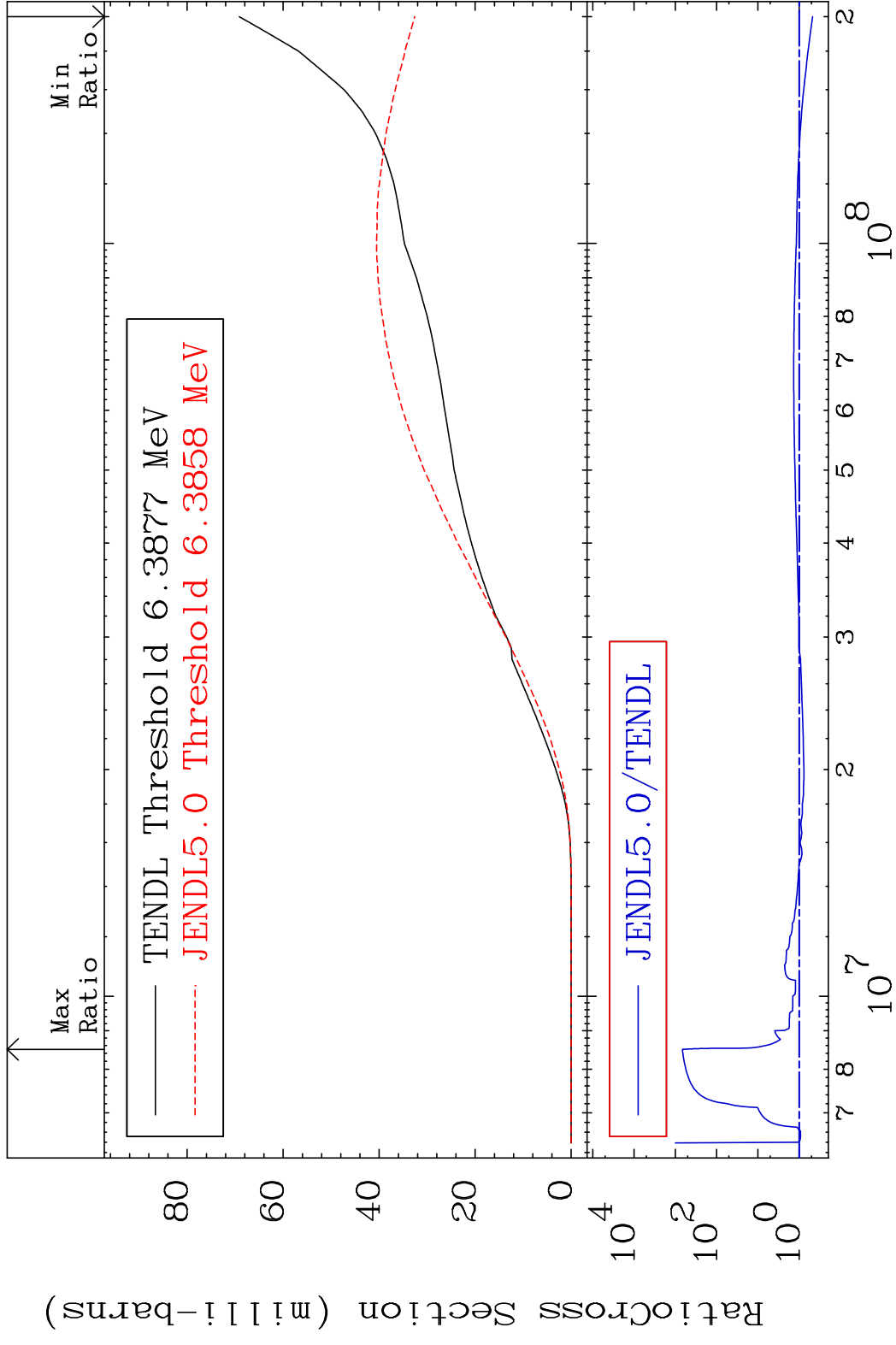


MAT 6419

Tritium Production

64-Gd-150

Cross Section -52.86 To 9999. %



30

Incident Energy (eV)

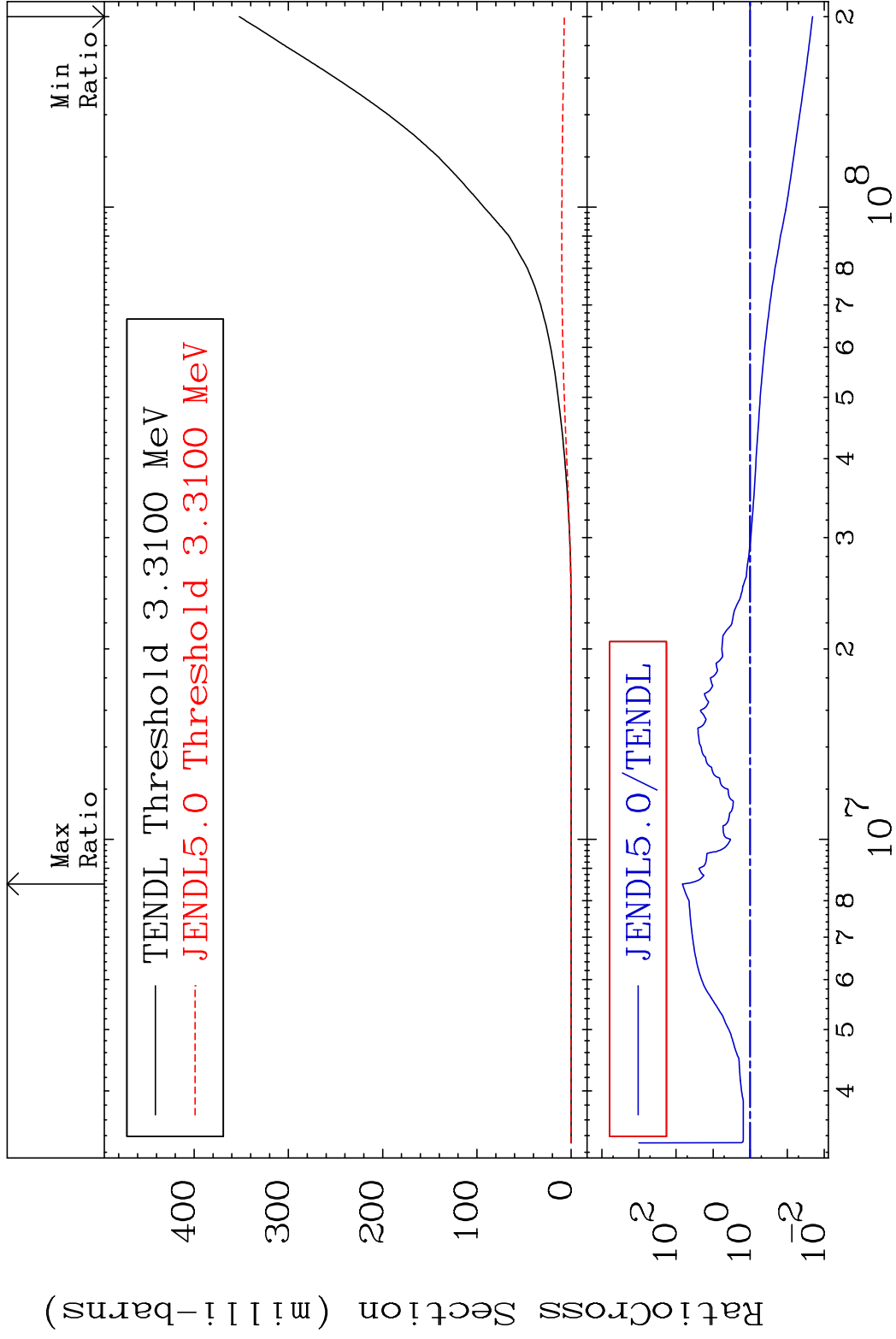
64-Gd-150

MAT 6419

He-3 Production

64-Gd-150

Cross Section -97.93 To 6637. %

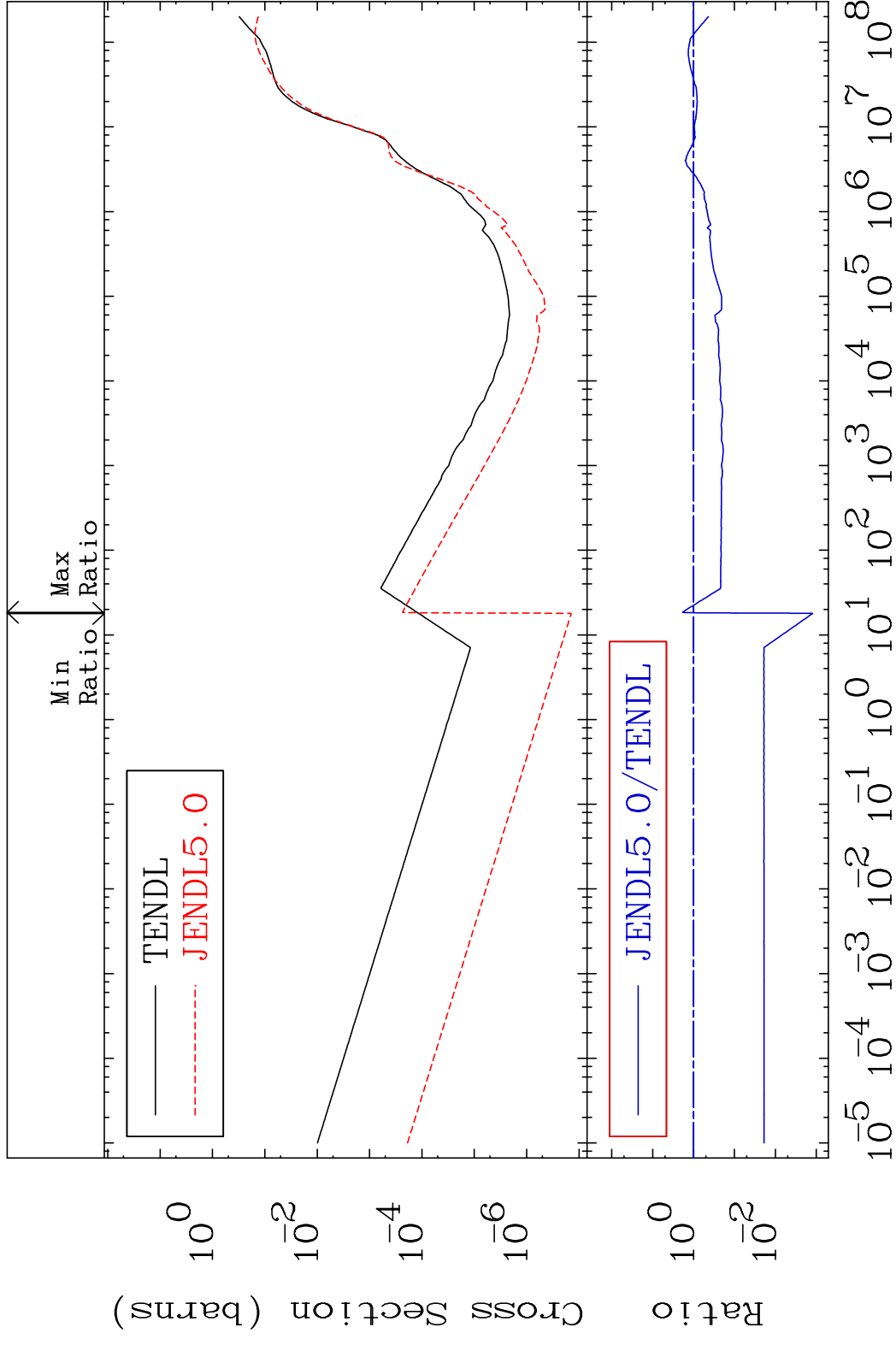


MAT 6419

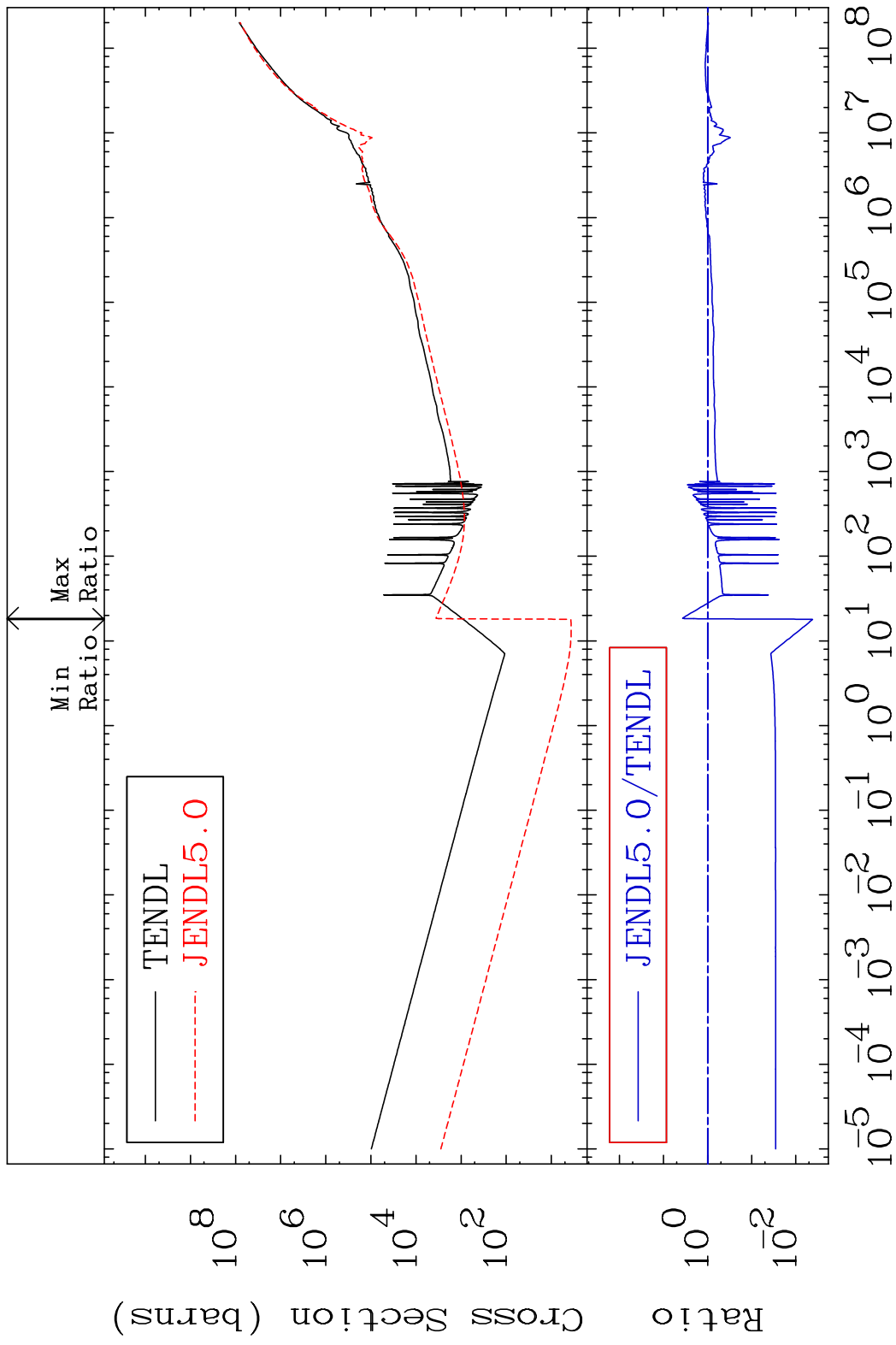
He-4 Production

64-Gd-150

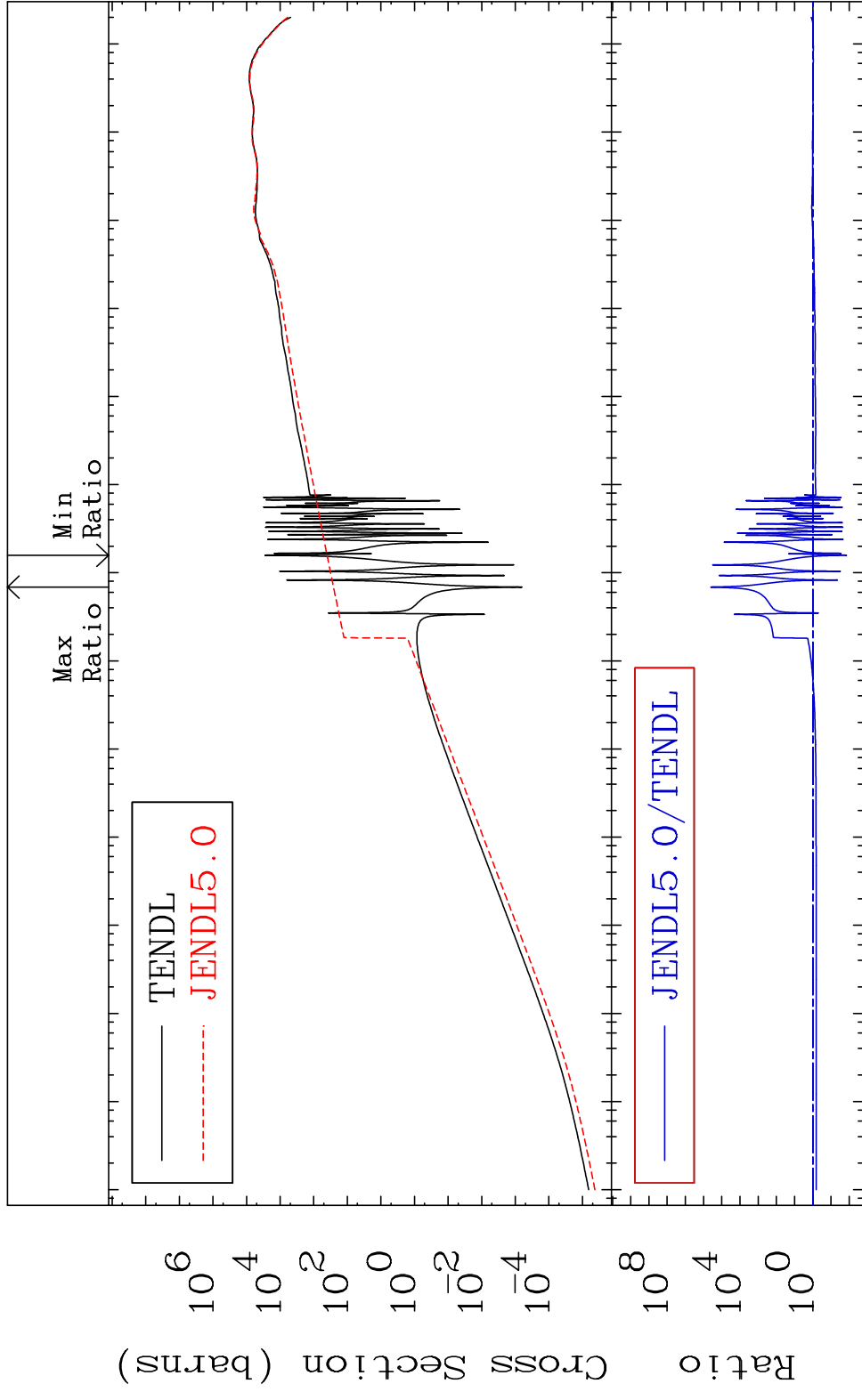
Cross Section -99.88 To 87.91 %



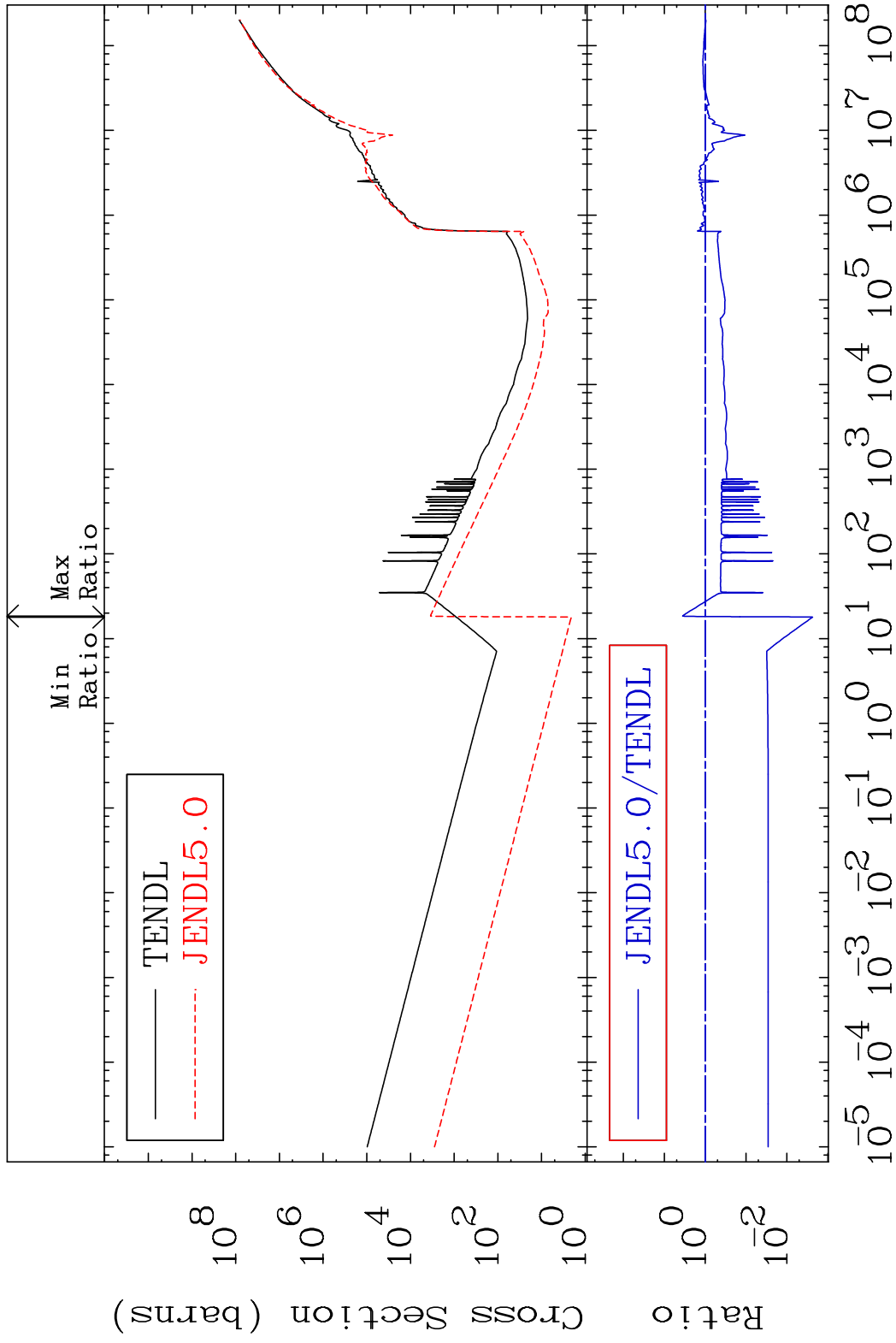
MAT 6419 Kerma total (eV-barns) 64-Gd-150
 Cross Section -99.58 To 273.8 %



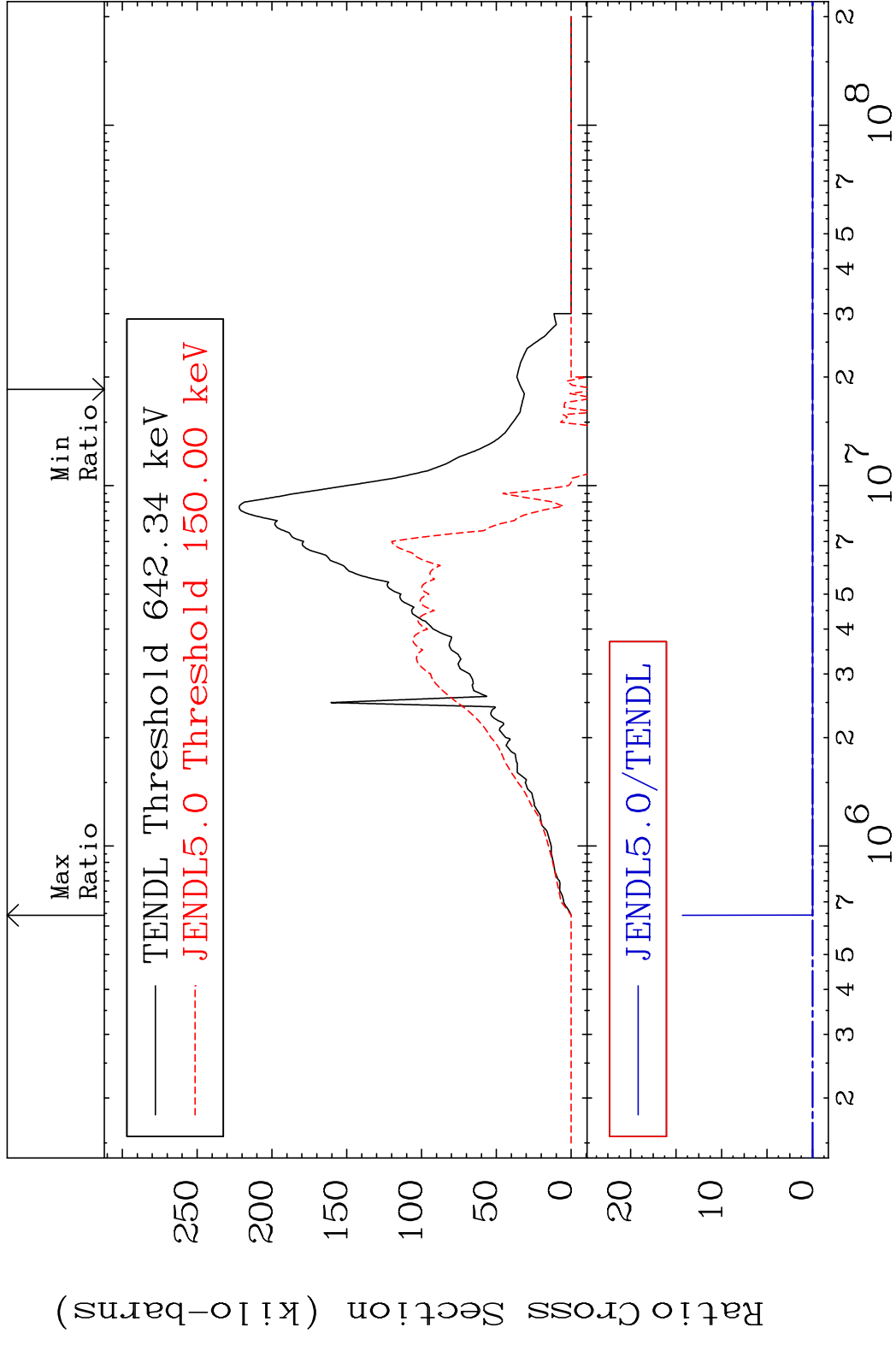
MAT 6419 Kerma elastic 64-Gd-150
 Cross Section -98.57 To 9999. %



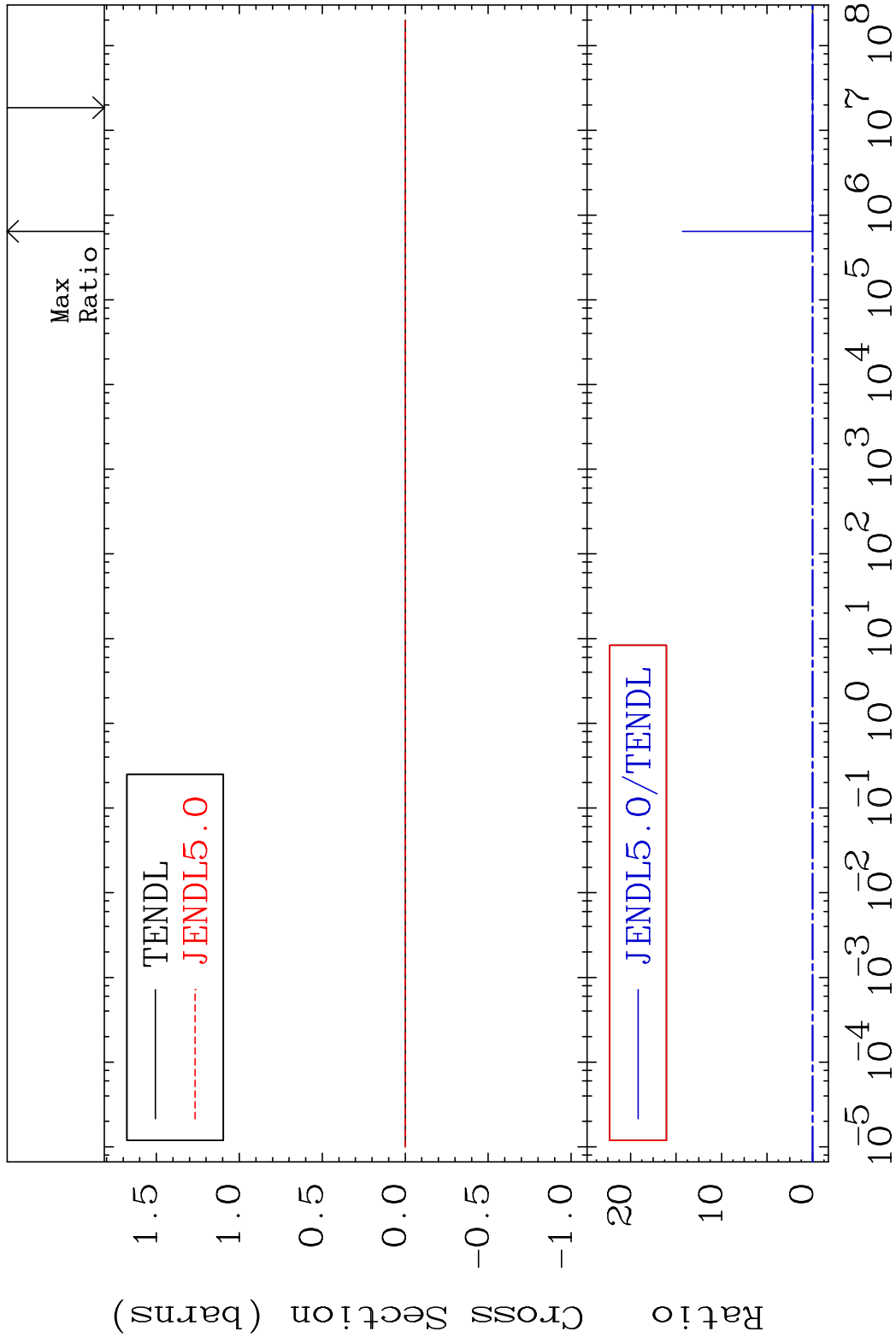
MAT 6419 Kerma non-elastic (all but mt2) 64-Gd-150
 Cross Section -99.76 To 261.1 %



MAT 6419 Kerma inelastic (mt51-91) 64-Gd-150
 Cross Section -157.3 To 9999. %

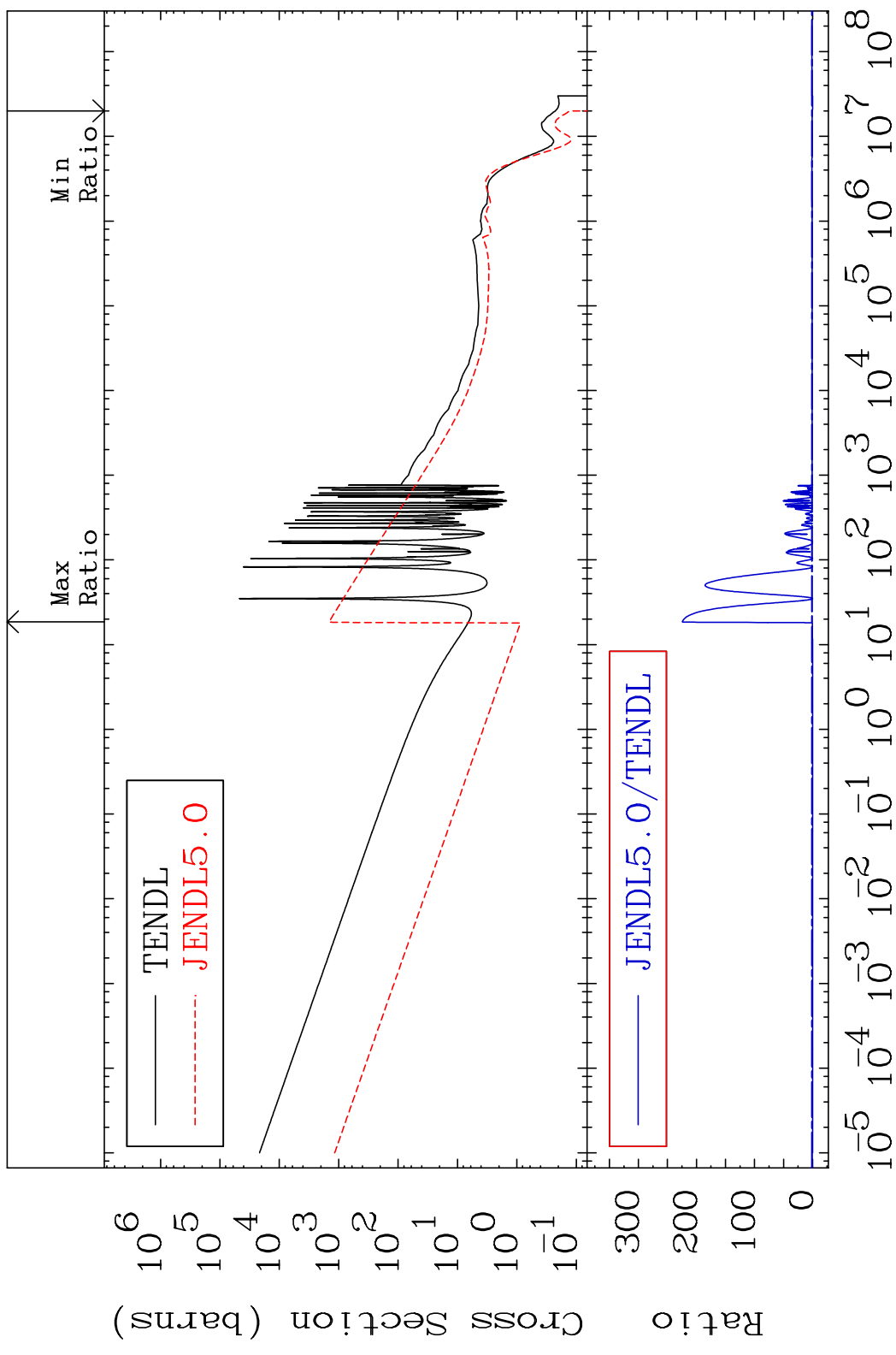


MAT 6419 Kerma fission (mt18 or mt19-20-21-38) 64-Gd-150
 Cross Section -157.3 To 9999. %

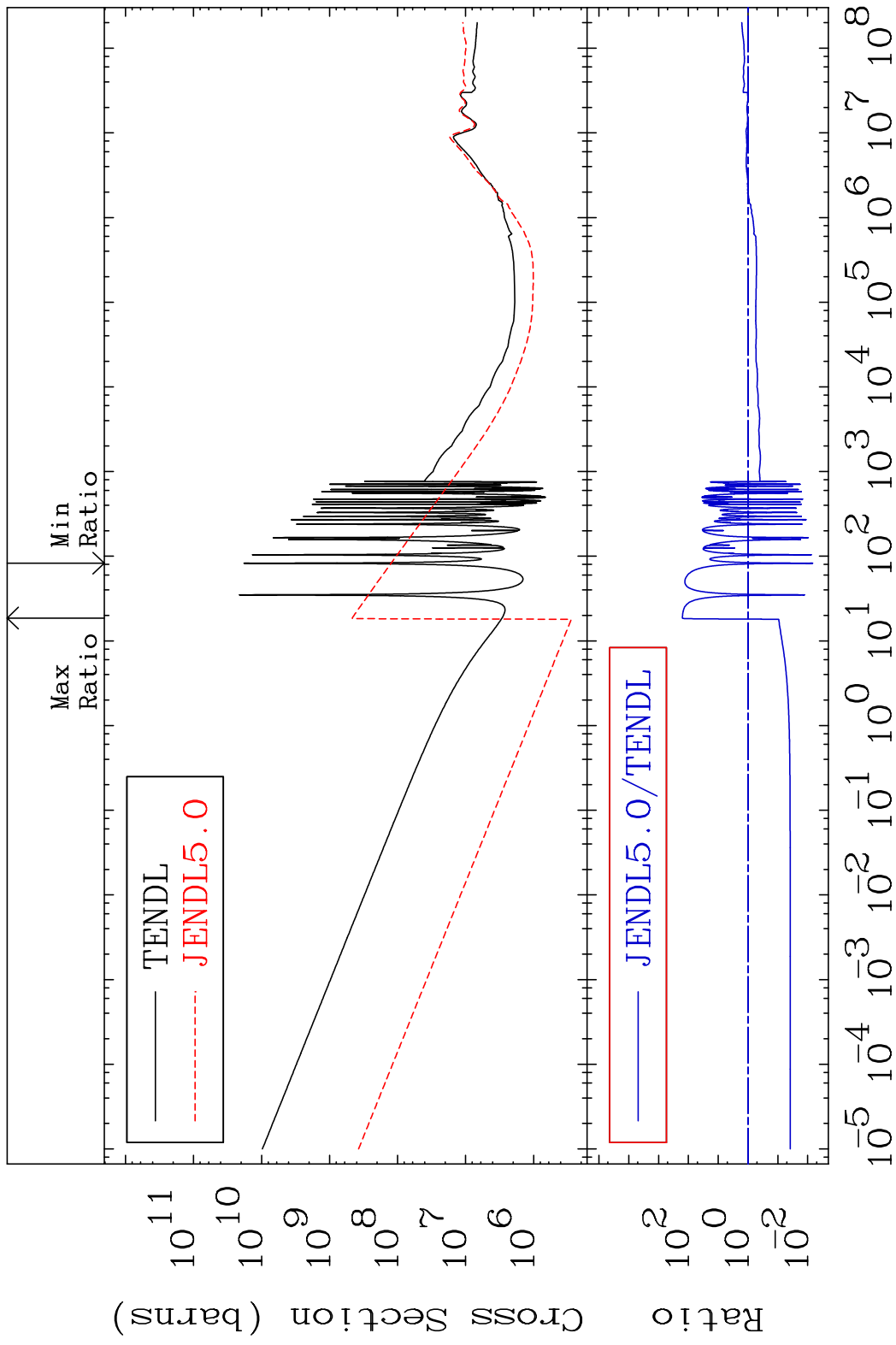


MAT 6419

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

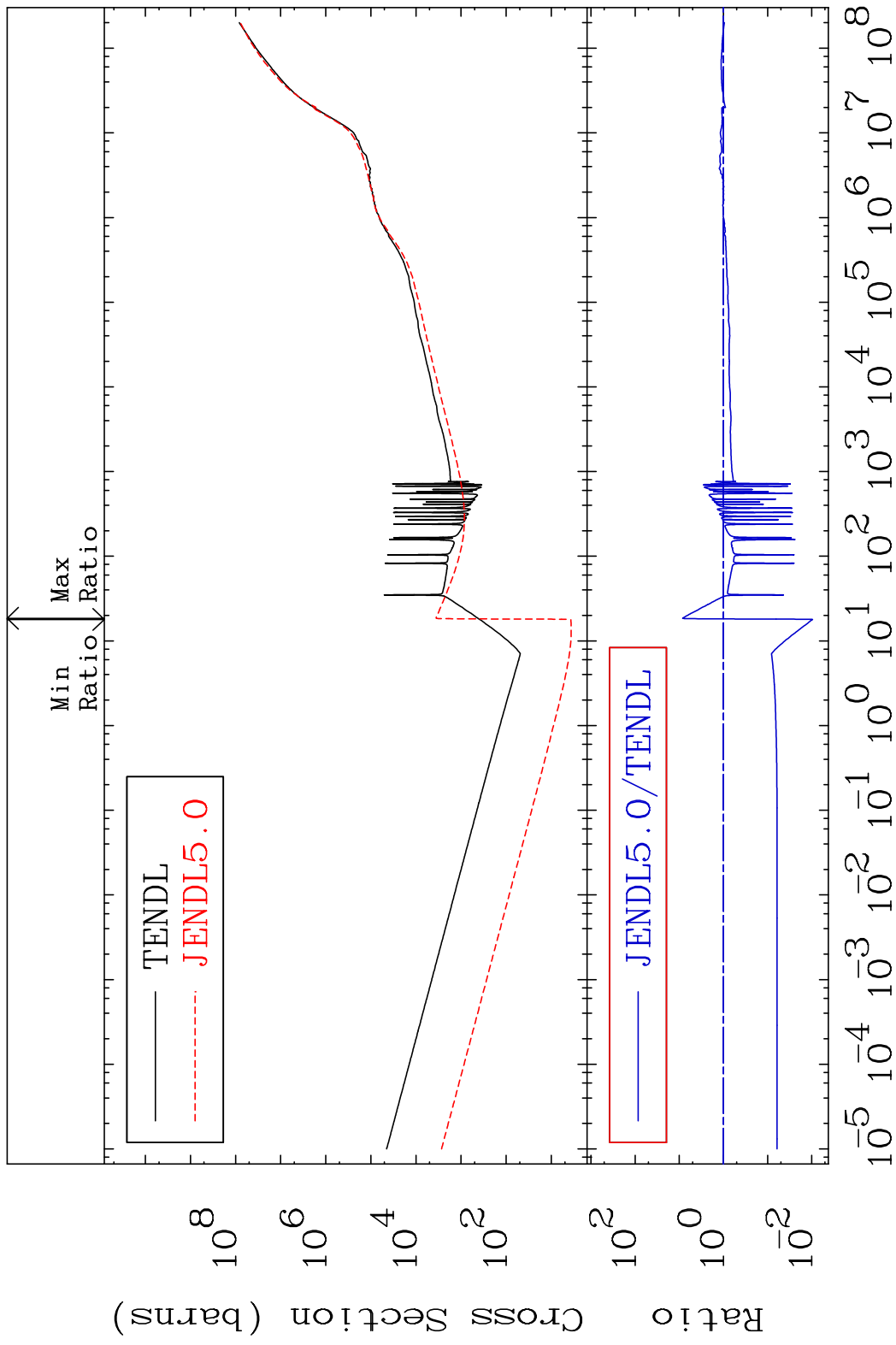


MAT 6419 Total photon (eV-barns) 64-Gd-150
 Cross Section -99.31 To 9999. %



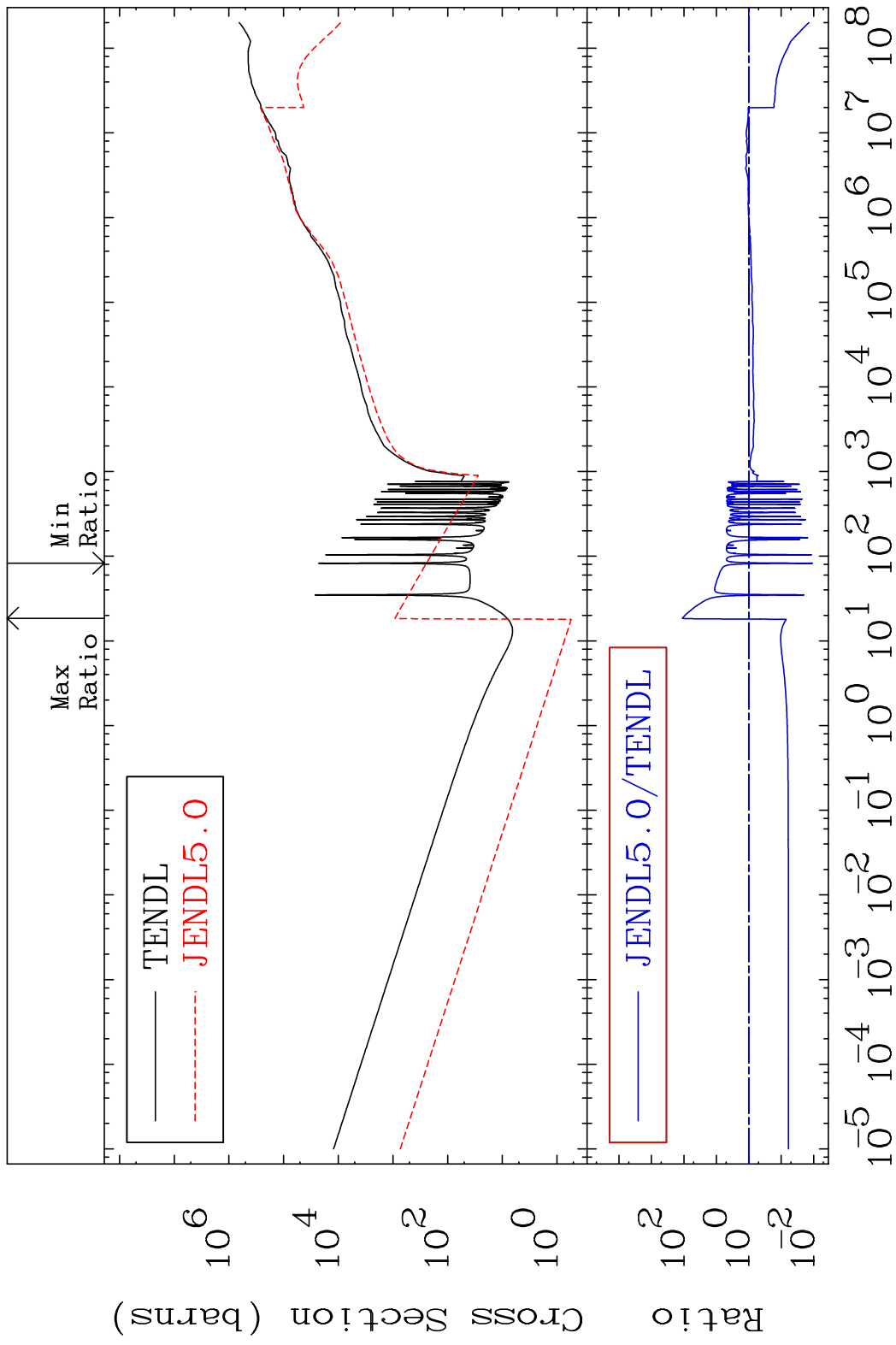
39 Incident Energy (eV) 64-Gd-150

MAT 6419 Total kinematic kerma (high limit) 64-Gd-150
Cross Section -99.04 To 752.0 %



40 Incident Energy (eV) 64-Gd-150

MAT 6419 Dpa total (eV-barns) 64-Gd-150
 Cross Section -98.92 To 9999. %

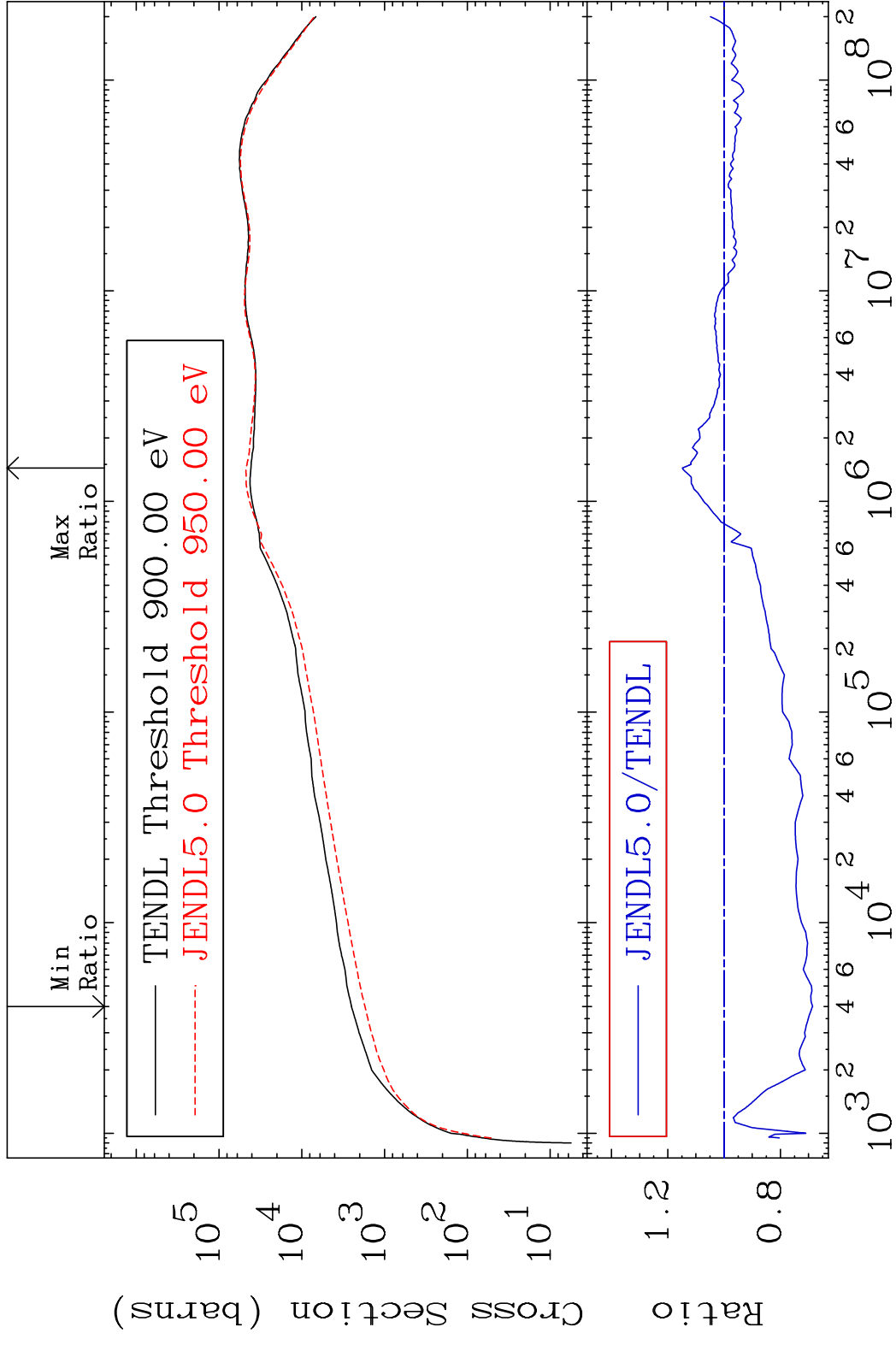


MAT 6419

Dpa elastic (mt2)

64-Gd-150

Cross Section -31.42 To 14.83 %

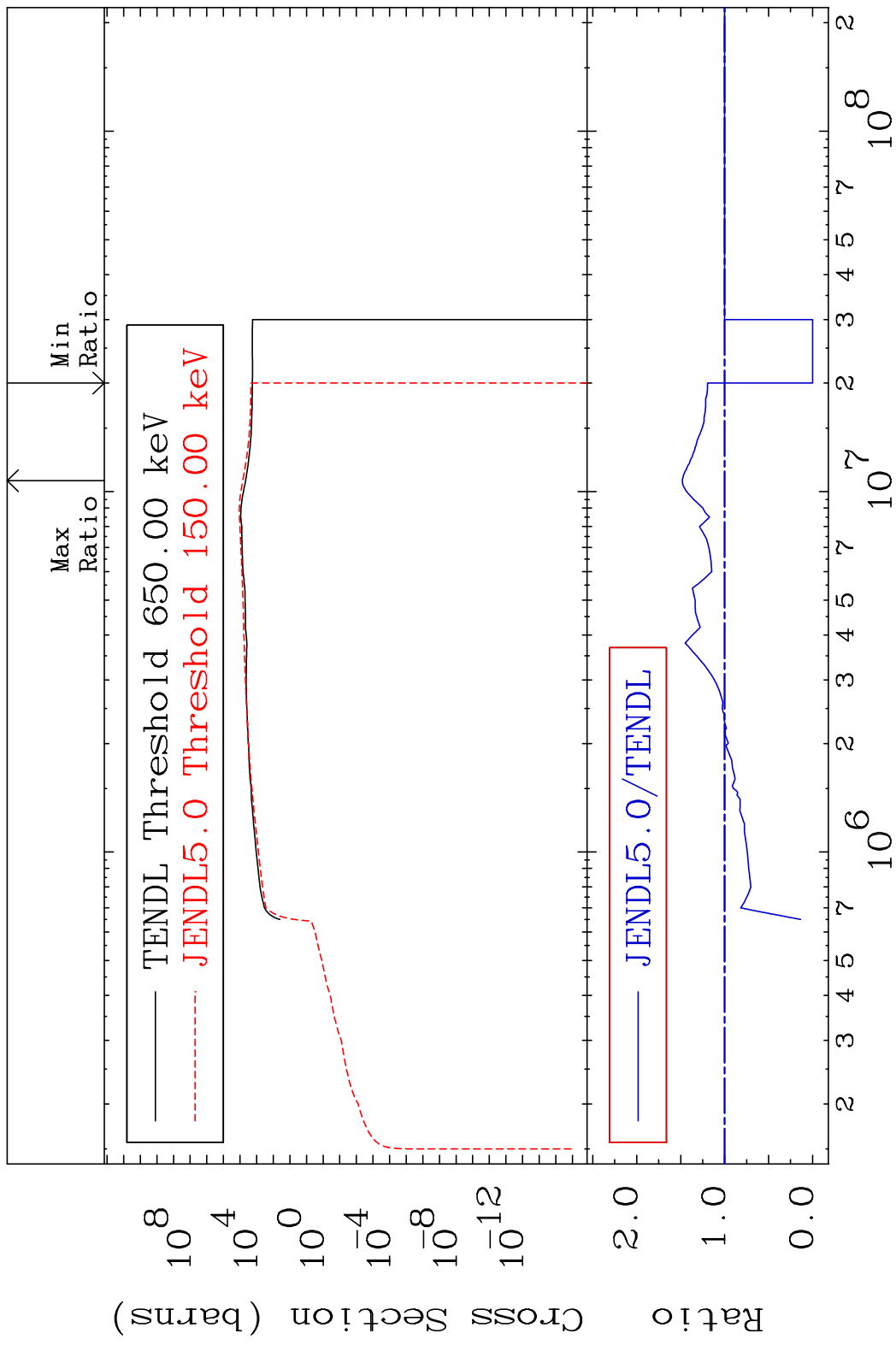


42

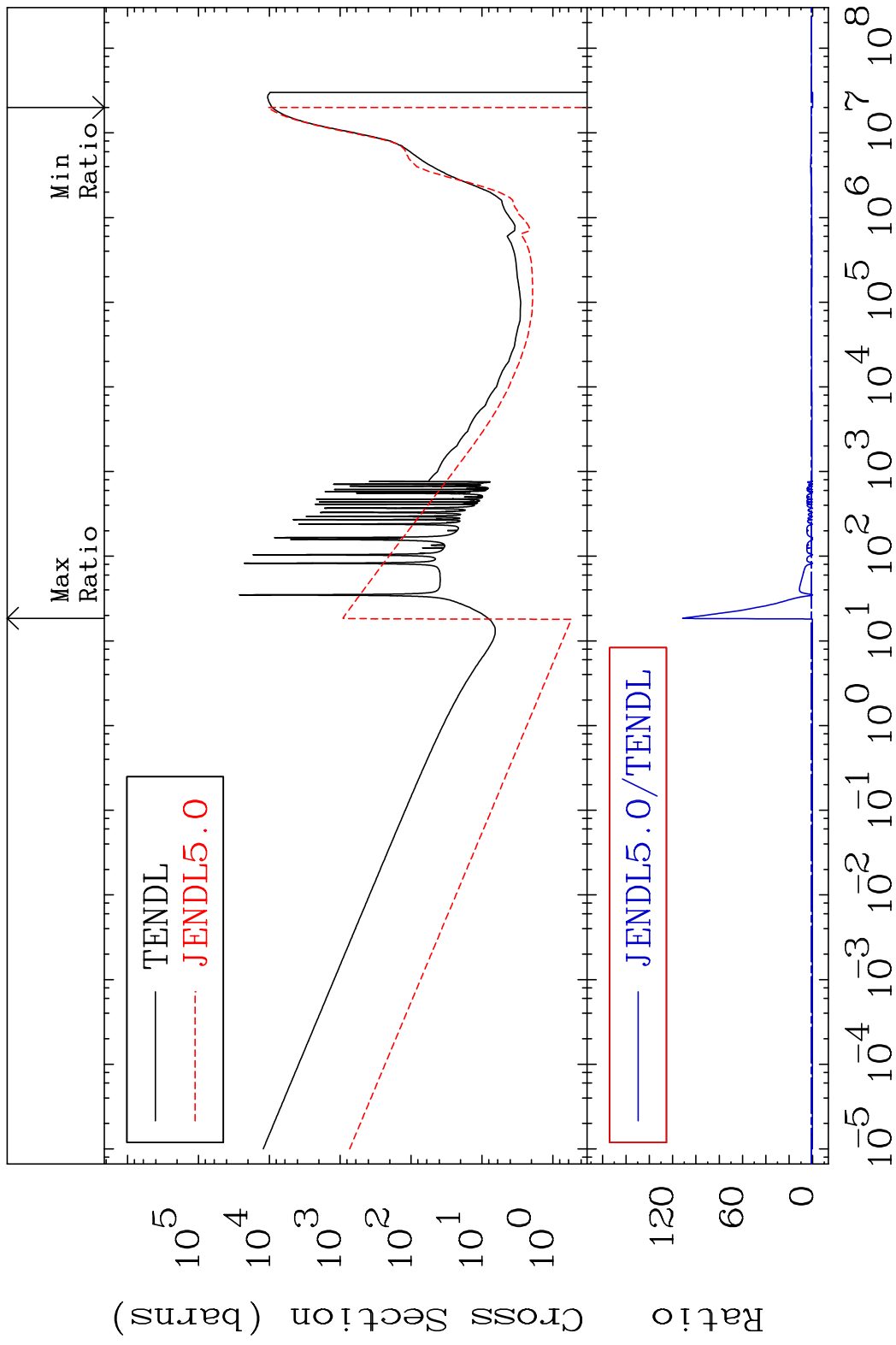
Incident Energy (eV)

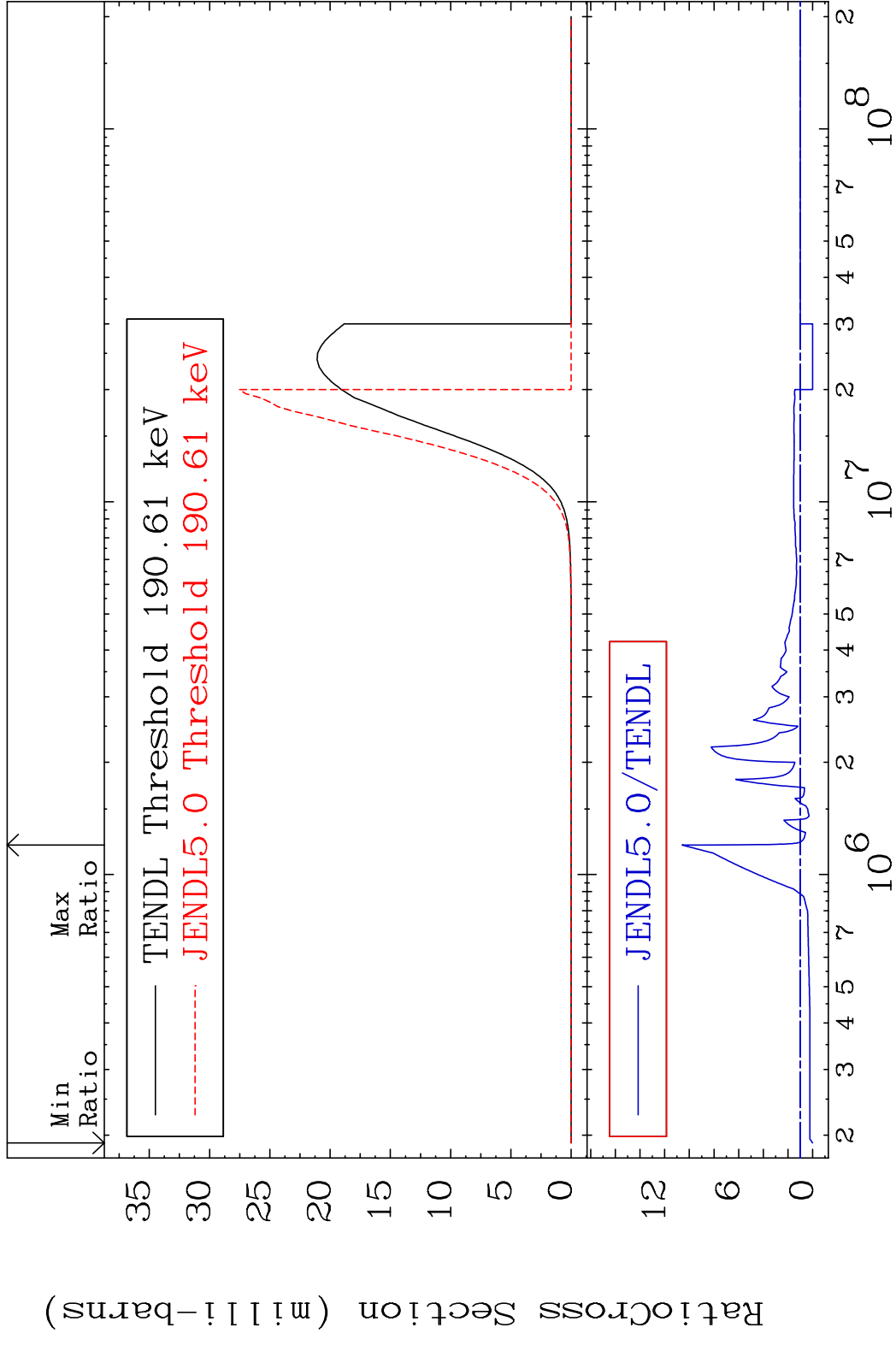
64-Gd-150

MAT 6419 Dpa inelastic (mt51-91) 64-Gd-150
 Cross Section -100.0 To 48.11 %

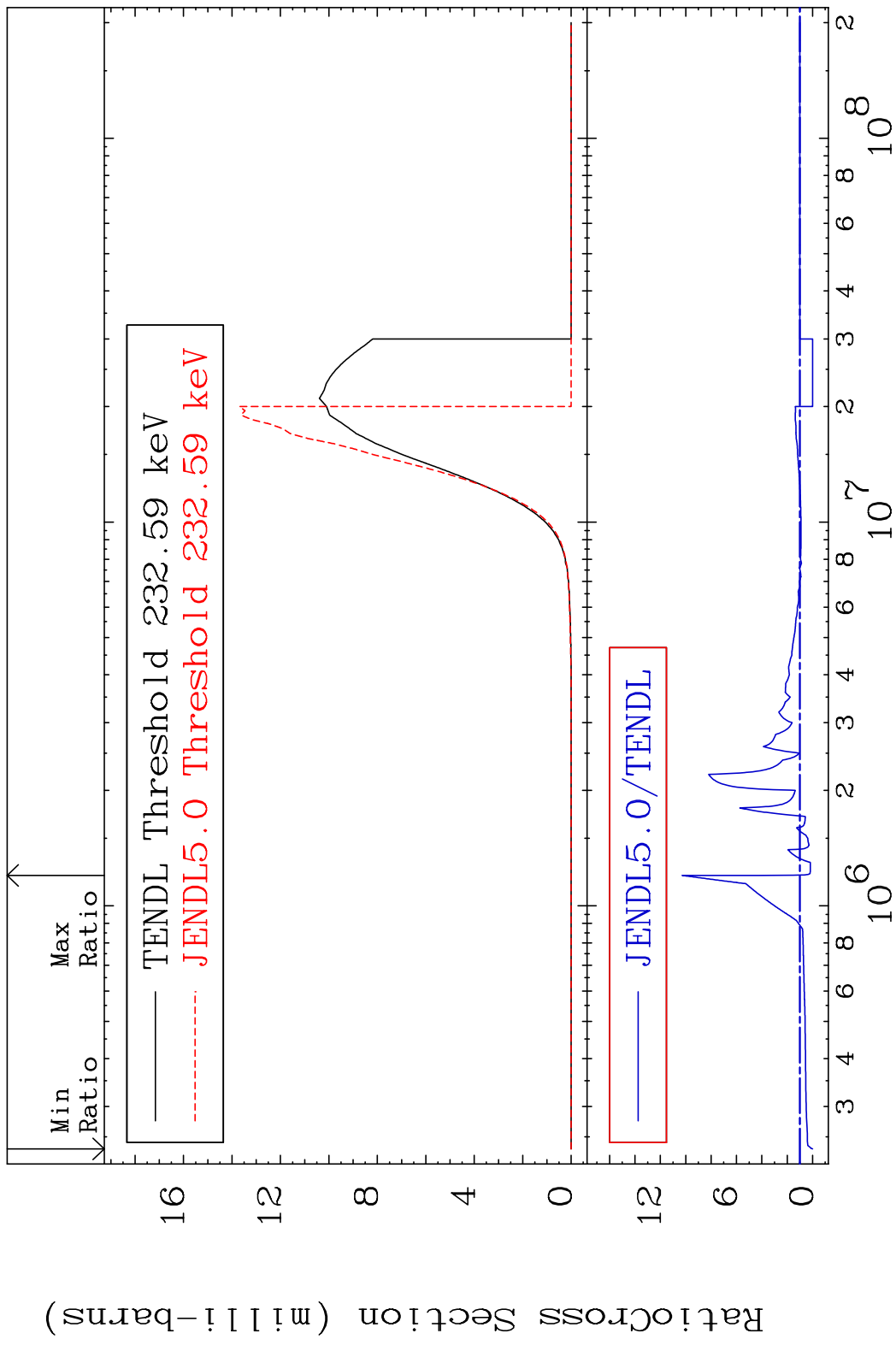


MAT 6419 Dpa disappearance (mt102 -120) 64-Gd-150
 Cross Section -100.0 To 9999. %

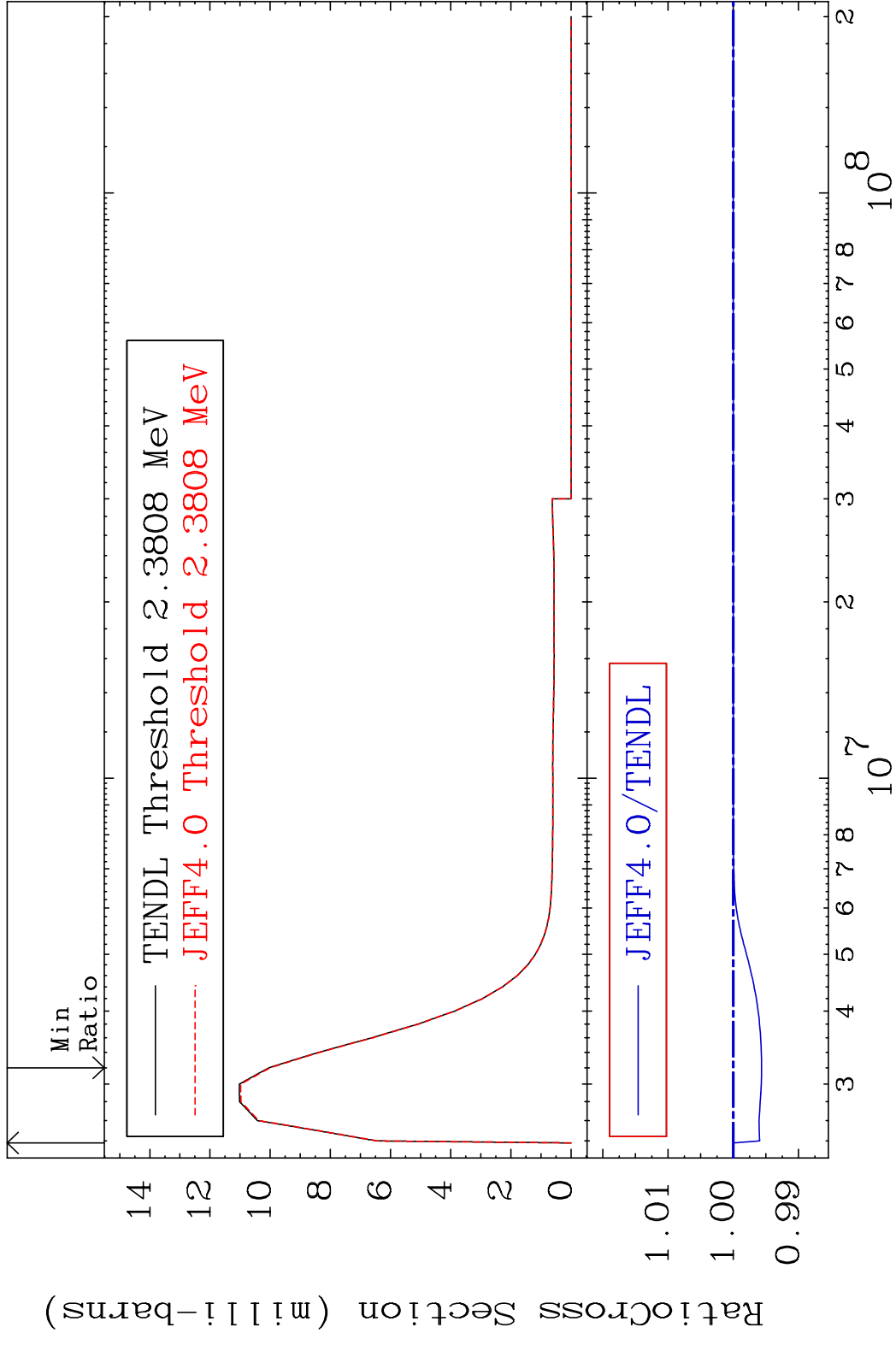




MAT 6419 (n, p) : 63-Eu-150m1 64-Gd-150
 Radionuclide Production Cross Section 180.01 dth 926.3 %

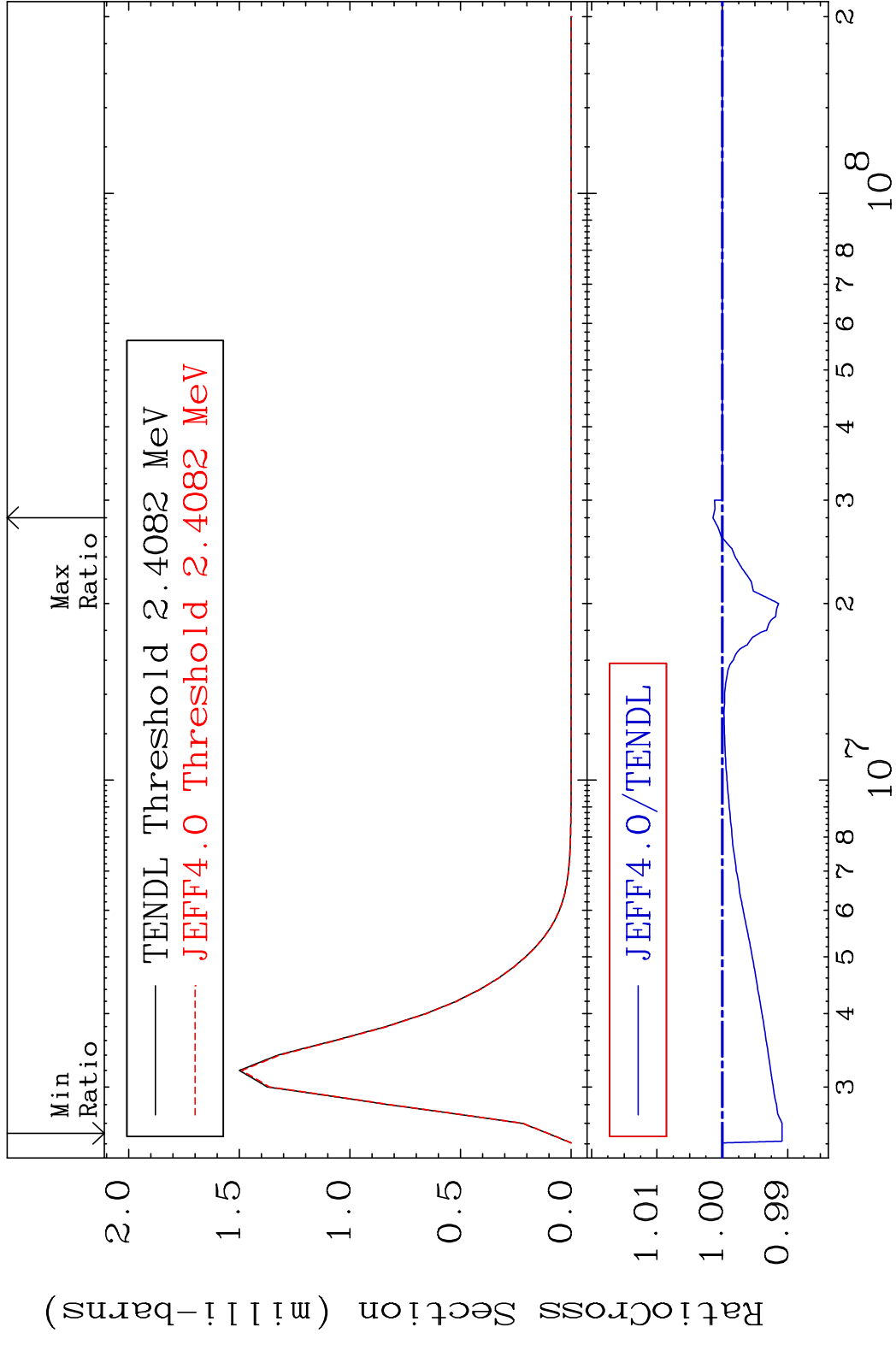


MAT 6419 MT= 77 (n,n') Level 64-Gd-150
 Cross Section -0.434 To 0.000 %

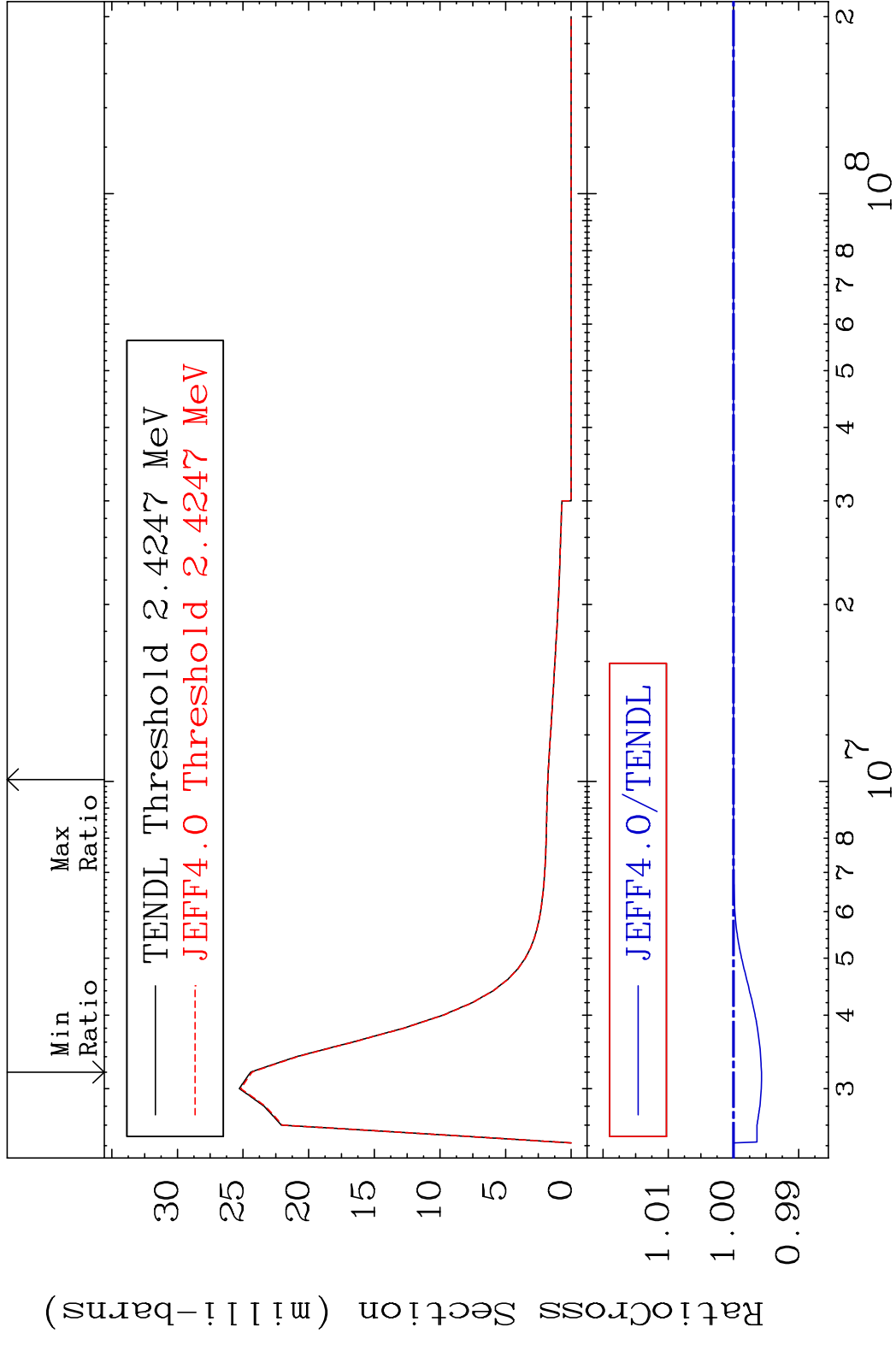


47 Incident Energy (eV) 64-Gd-150

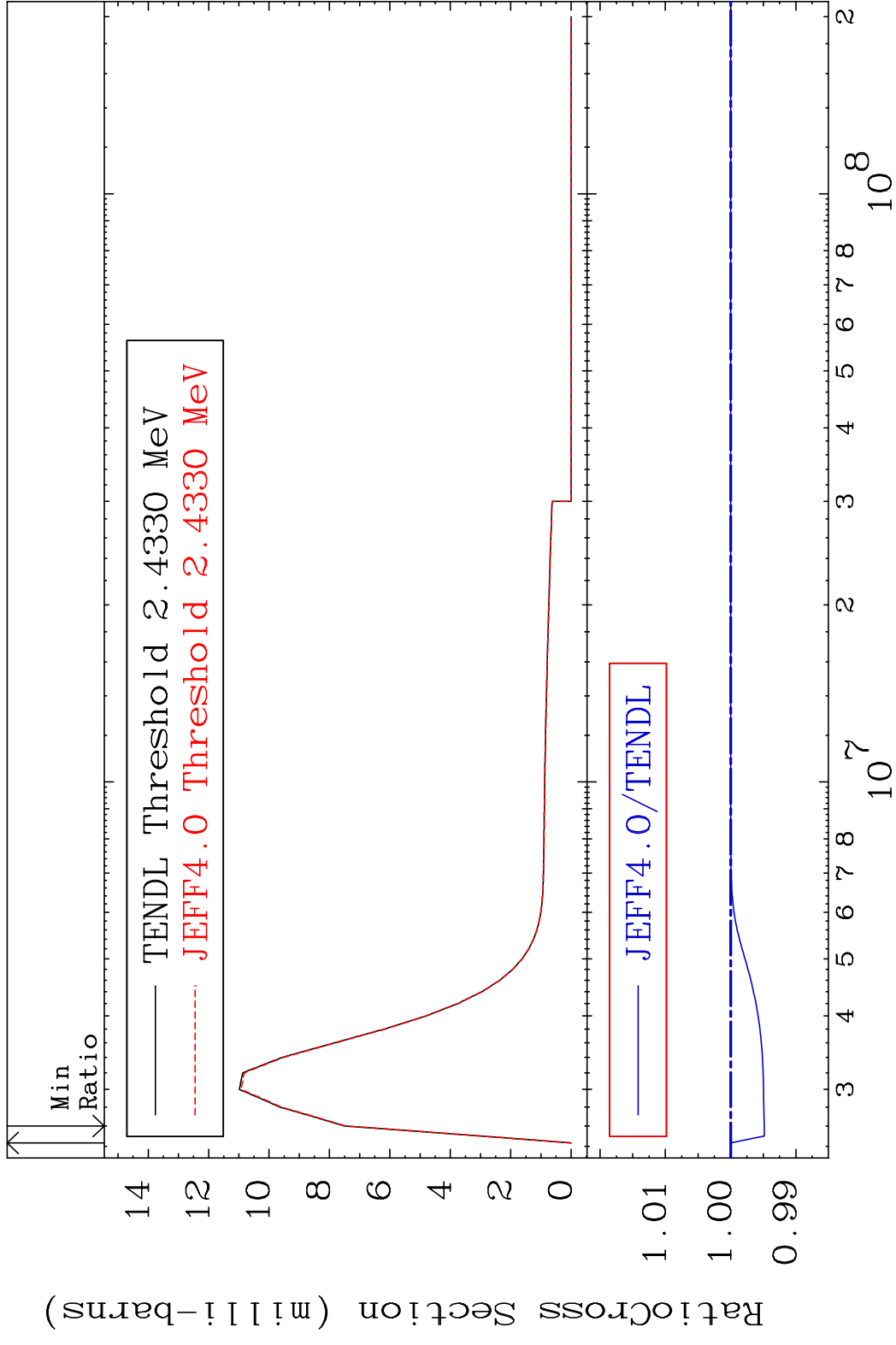
MAT 6419 MT= 78 (n, n') Level 64-Gd-150
 Cross Section -0.915 To 0.144 %



MAT 6419 MT= 79 (n,n') Level 64-Gd-150
 Cross Section -0.430 To 0.000 %



MAT 6419 MT= 80 (n,n') Level 64-Gd-150
 Cross Section -0.515 To 0.000 %

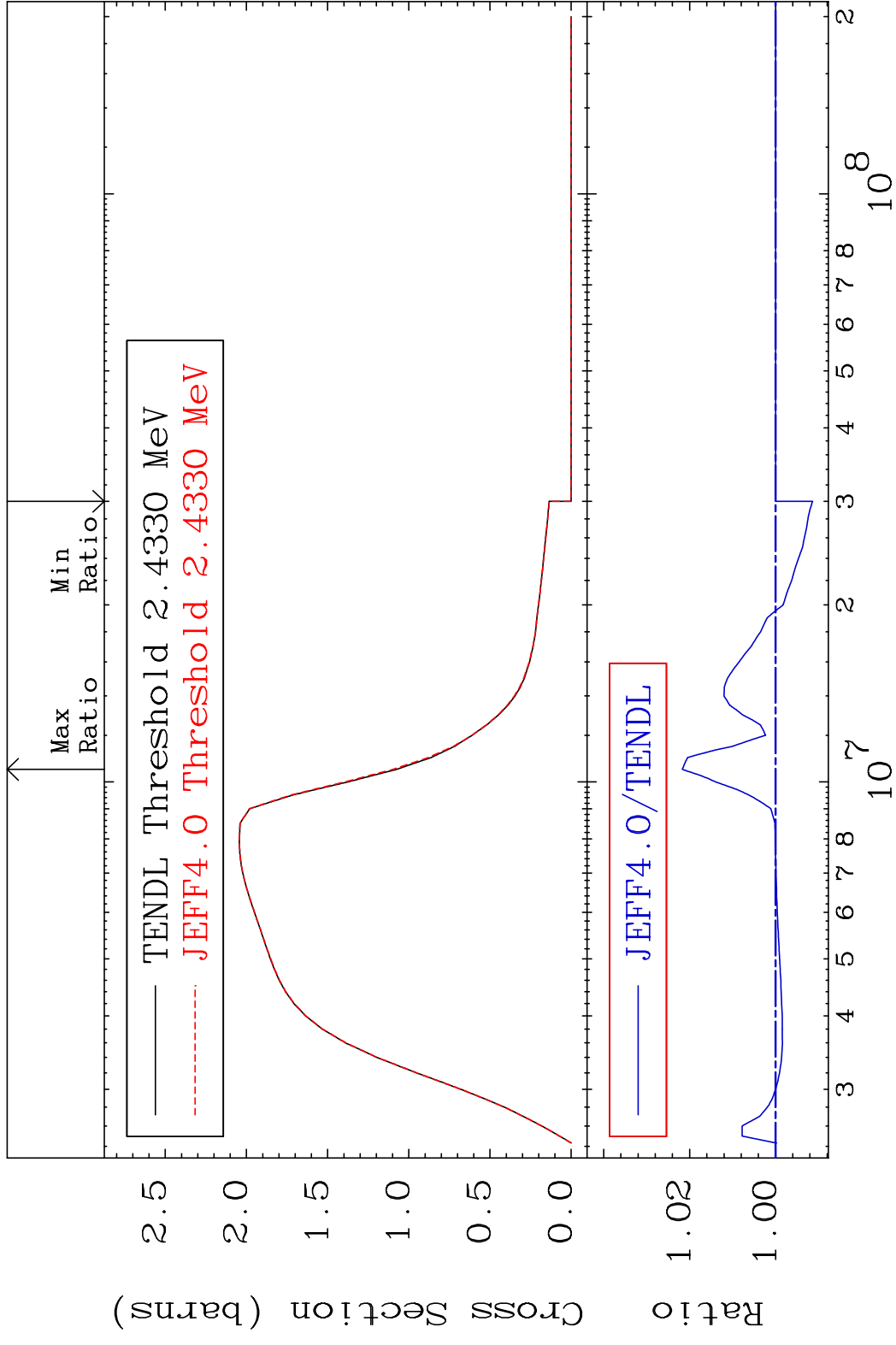


MAT 6419

(n, n') Continuum

64-Gd-150

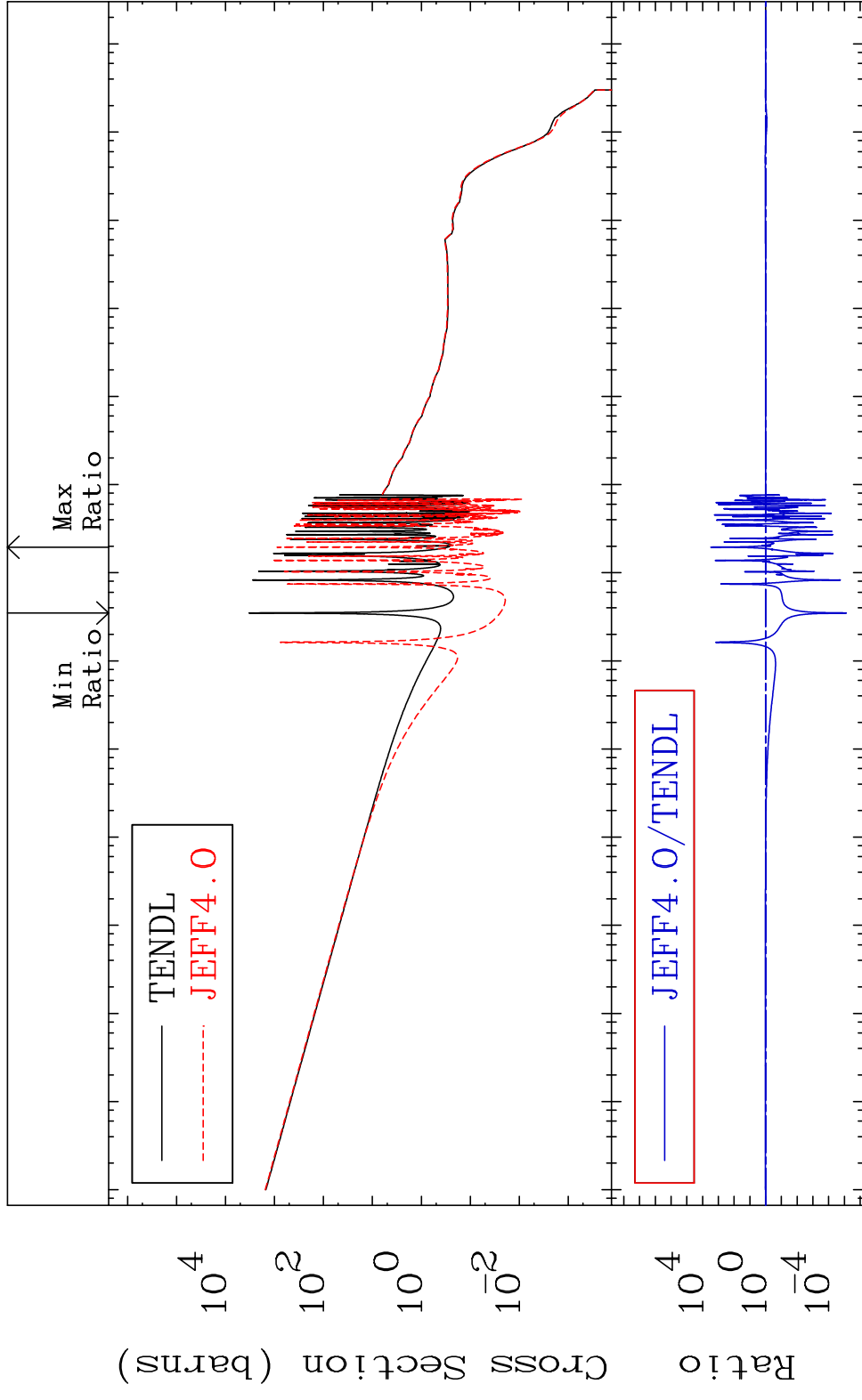
Cross Section -0.861 To 2.170 %



MAT 6419

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

64-Gd-150

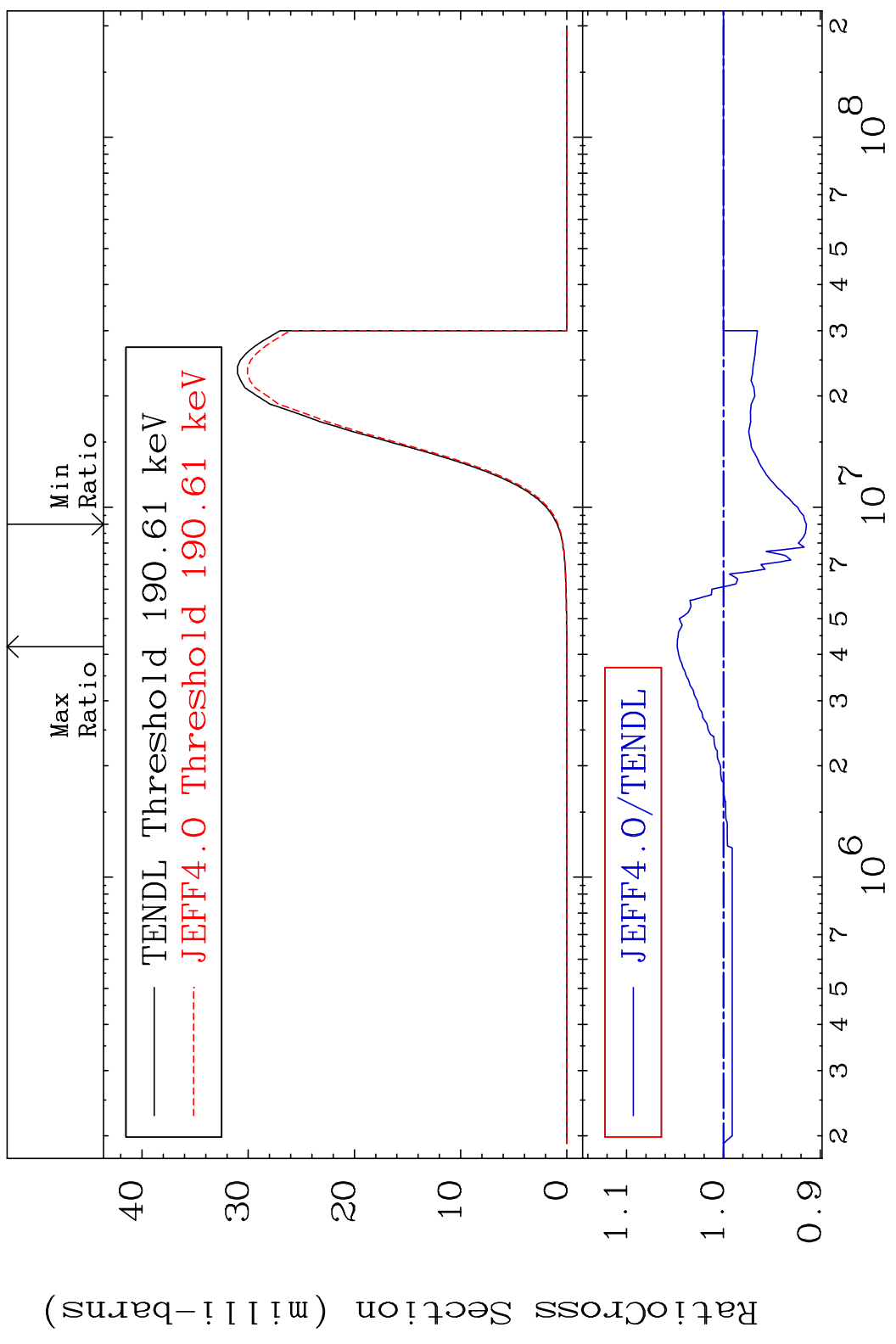


MAT 6419

(n, p)

64-Gd-150

Cross Section -8.559 To 4.774 %

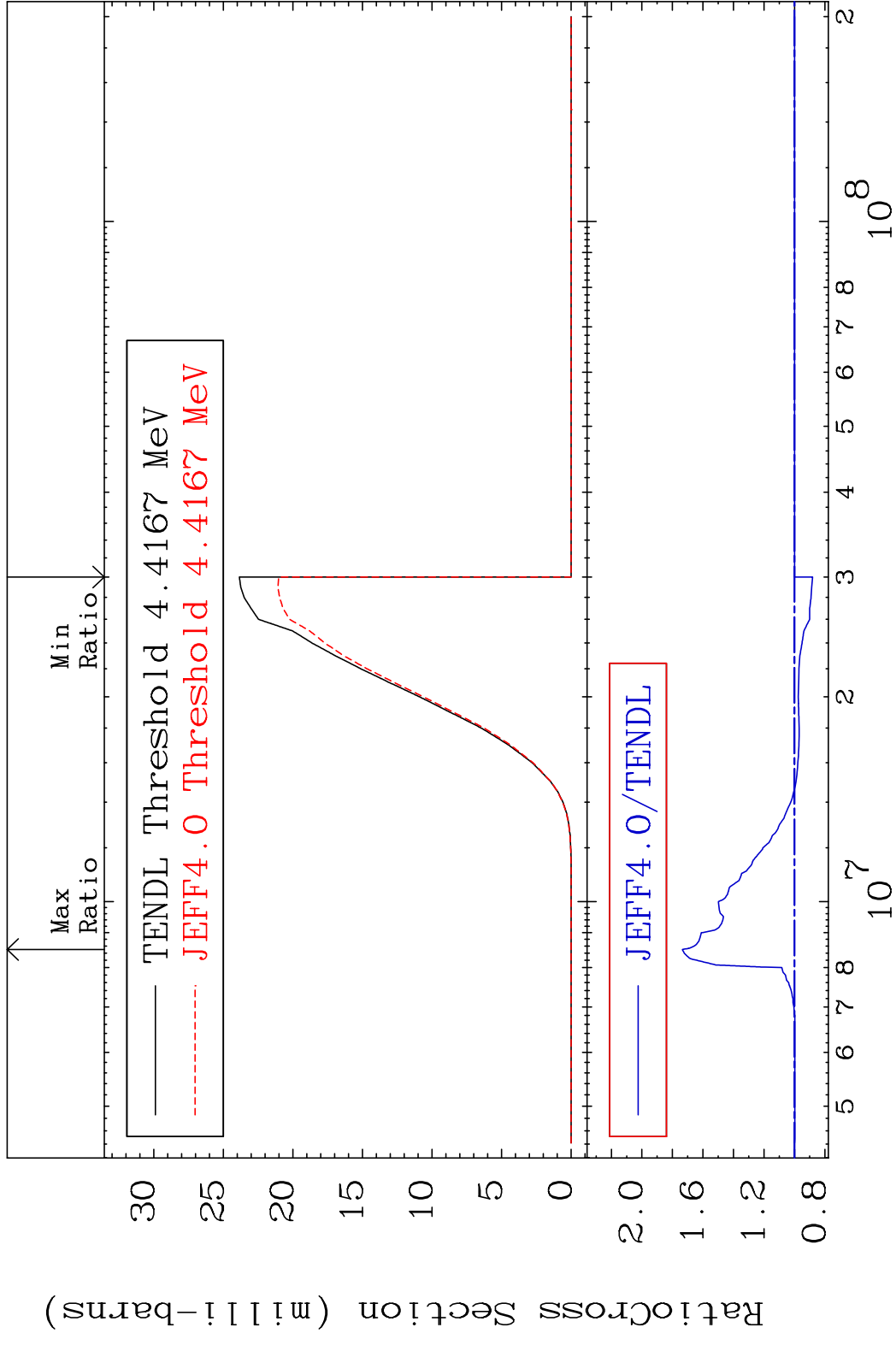


MAT 6419

(n, d)

64-Gd-150

Cross Section -11.85 To 73.49 %

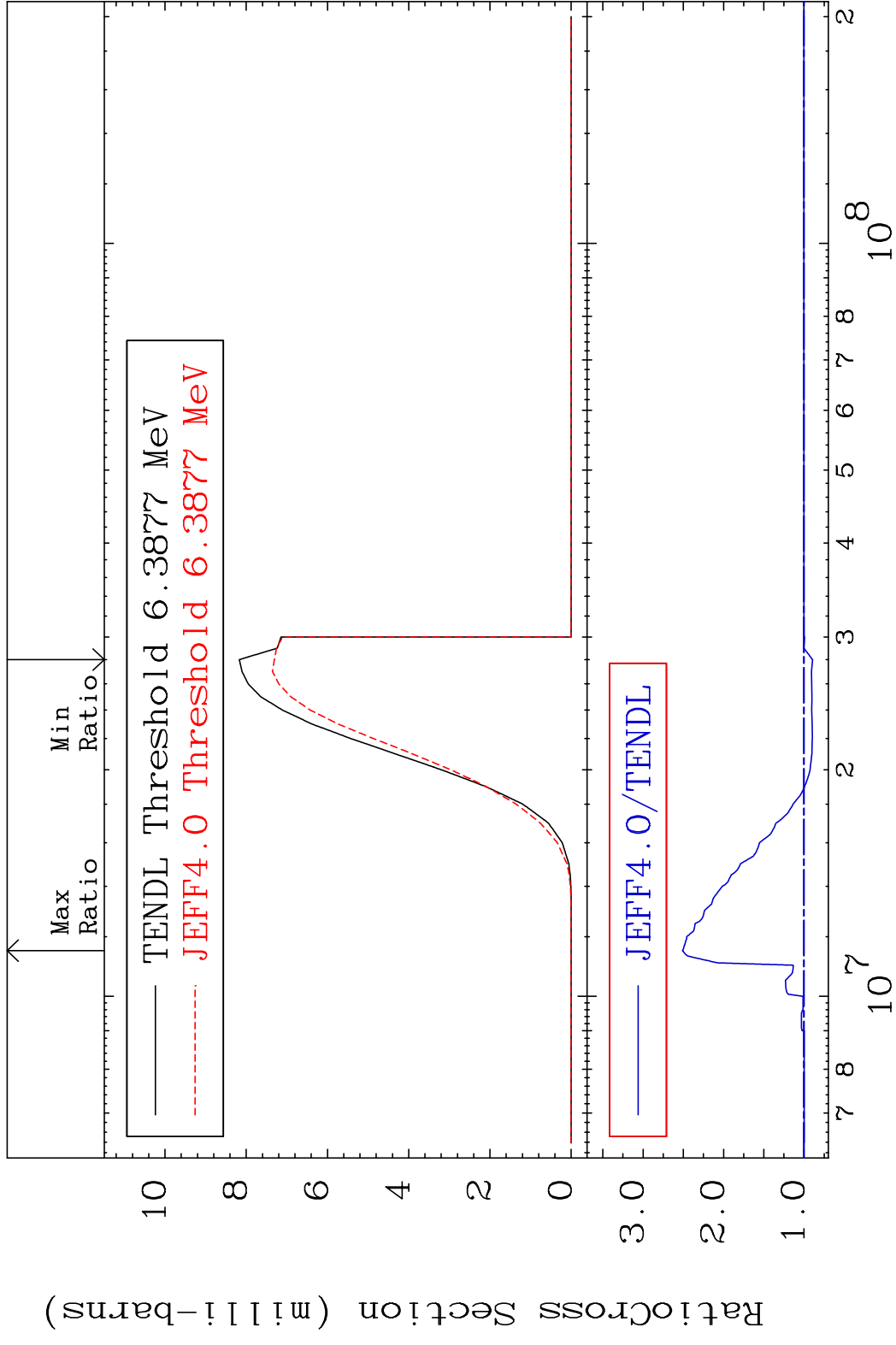


MAT 6419

(n, t)

64-Gd-150

Cross Section -10.58 To 151.2 %

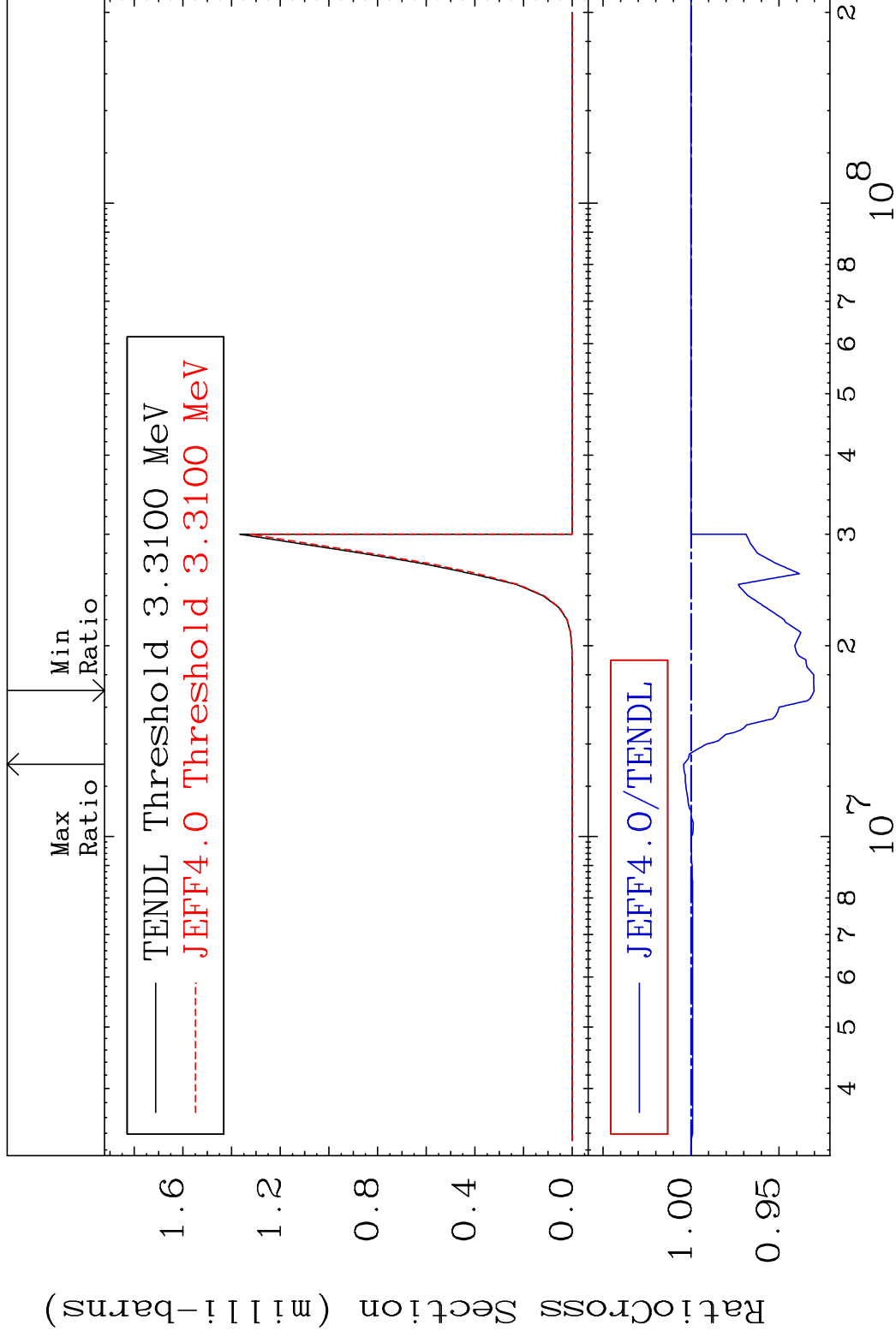


MAT 6419

(n, He-3)

64-Gd-150

Cross Section -6.990 To 0.421 %



56

Incident Energy (eV)

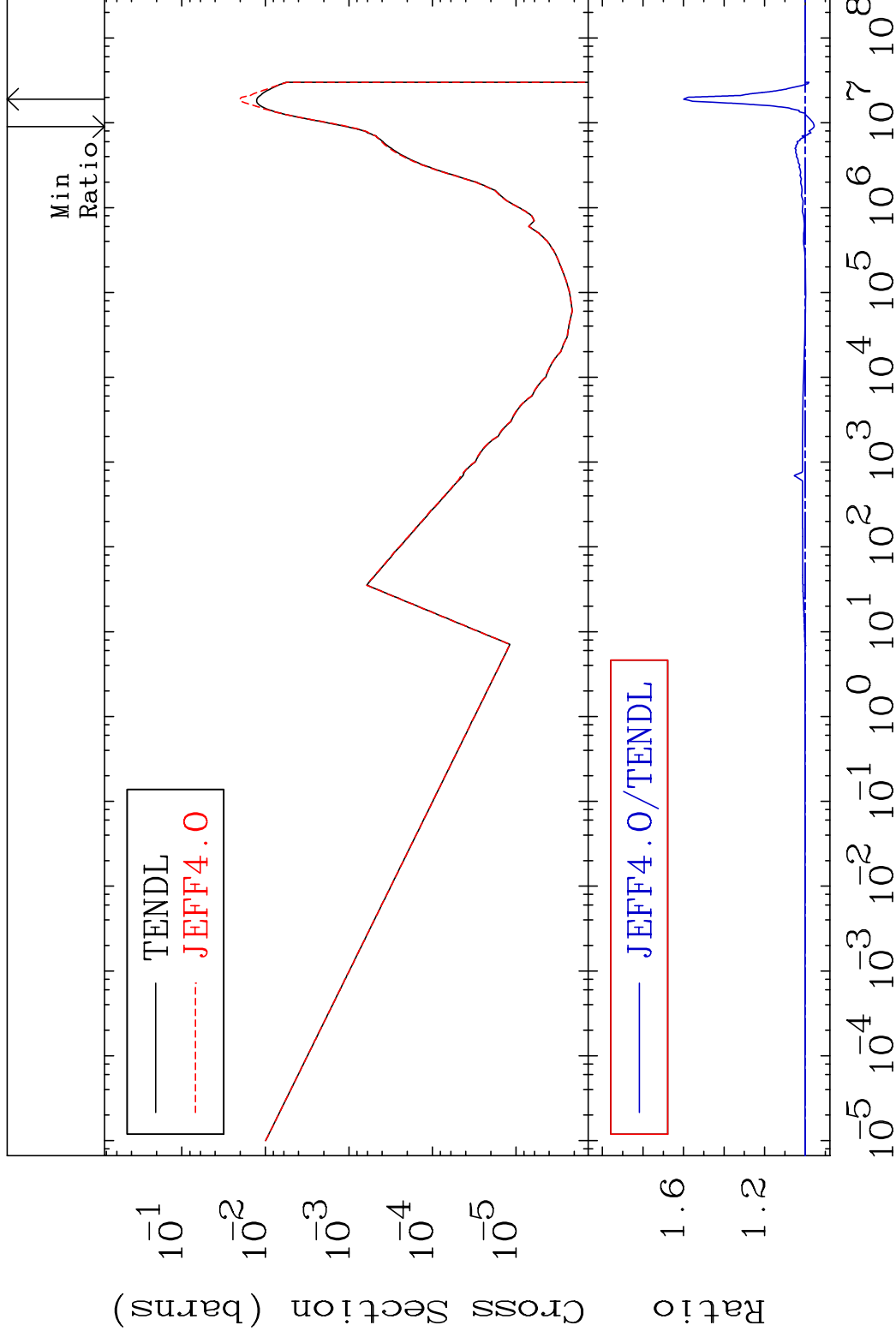
64-Gd-150

MAT 6419

(n, α)

64-Gd-150

Cross Section -4.423 To 59.93 %



57

Incident Energy (eV)

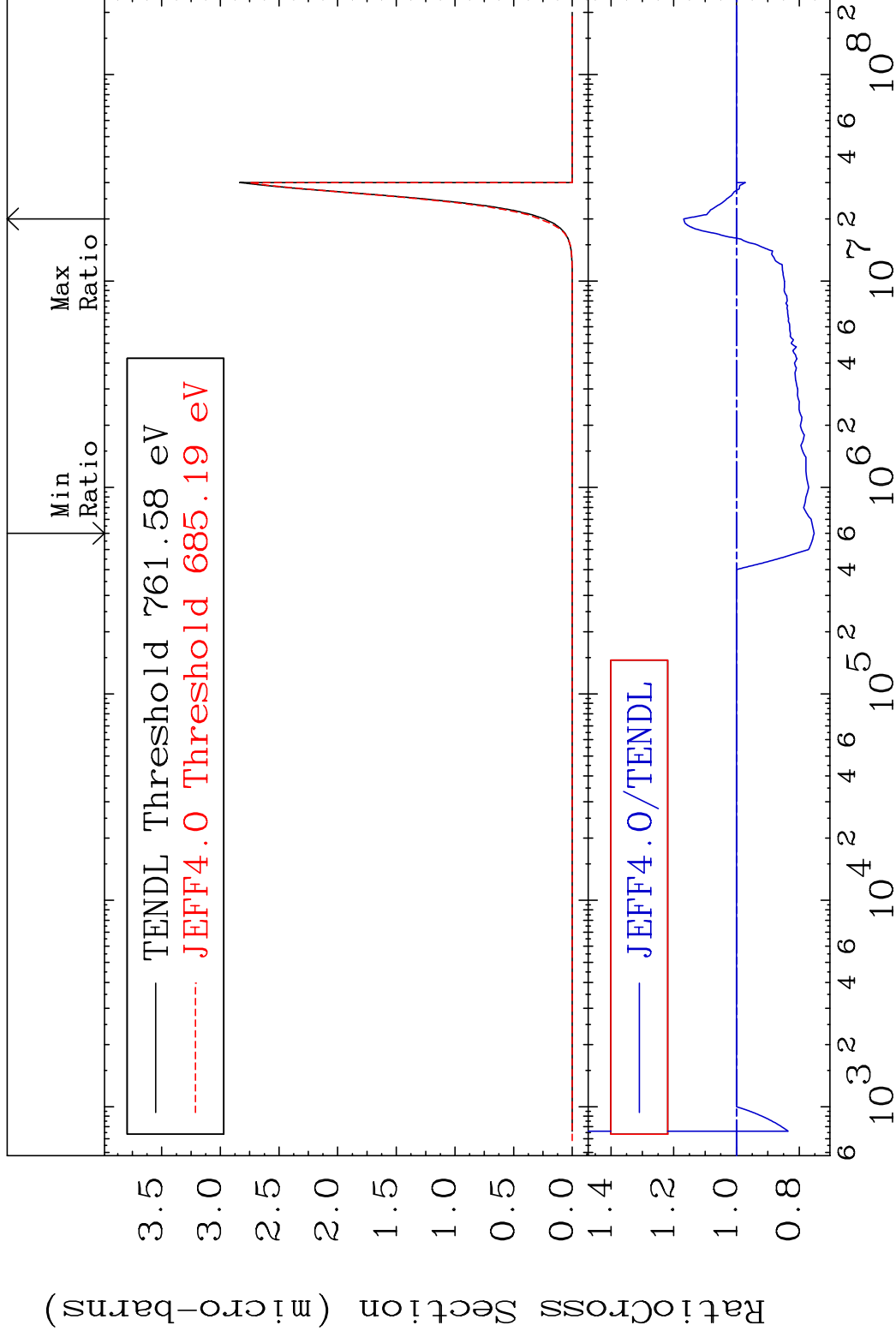
64-Gd-150

MAT 6419

(n, 2α)

64-Gd-150

Cross Section -24.73 To 16.84 %



58

Incident Energy (eV)

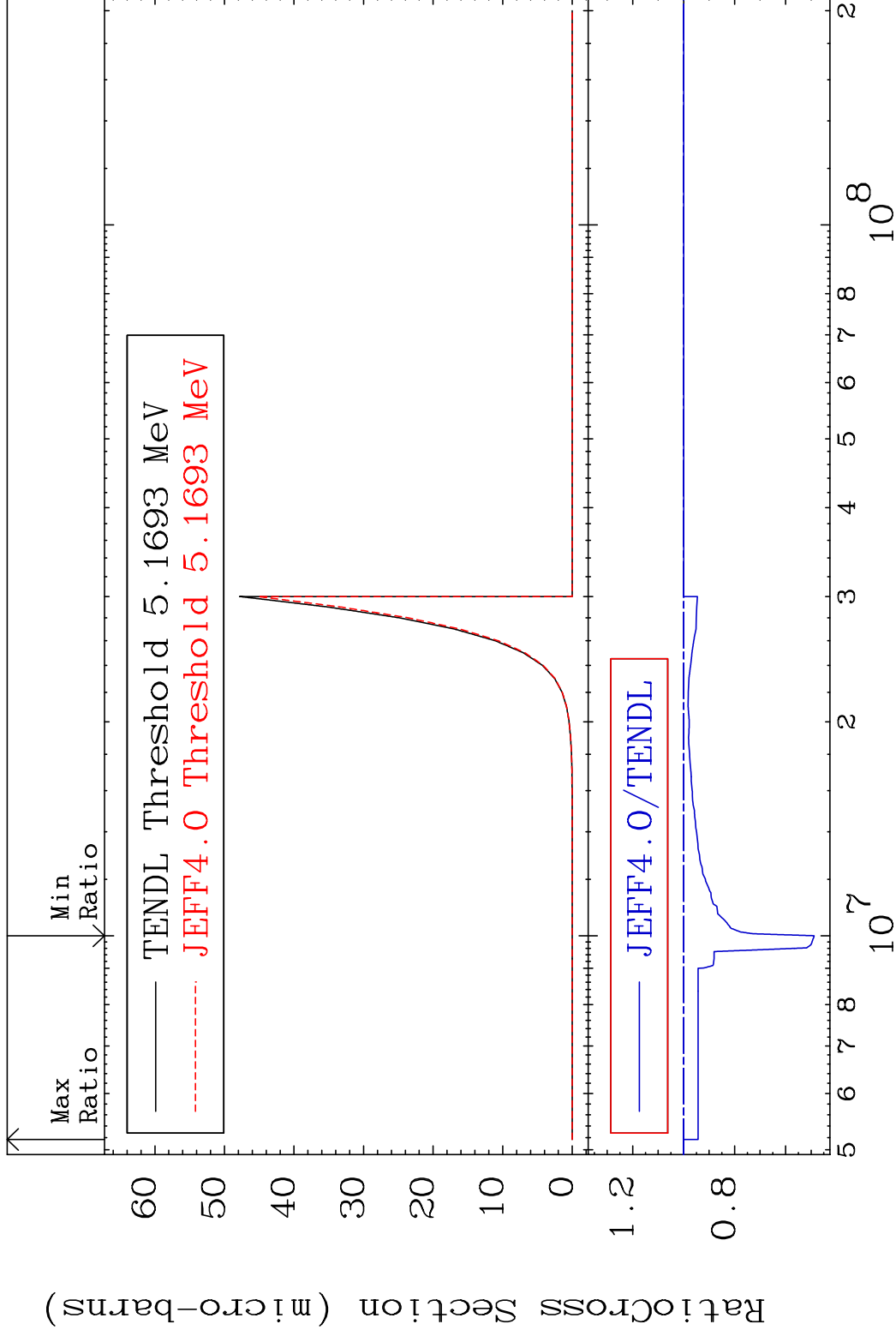
64-Gd-150

MAT 6419

(n,2p)

64-Gd-150

Cross Section -51.19 To 0.000 %



59

Incident Energy (eV)

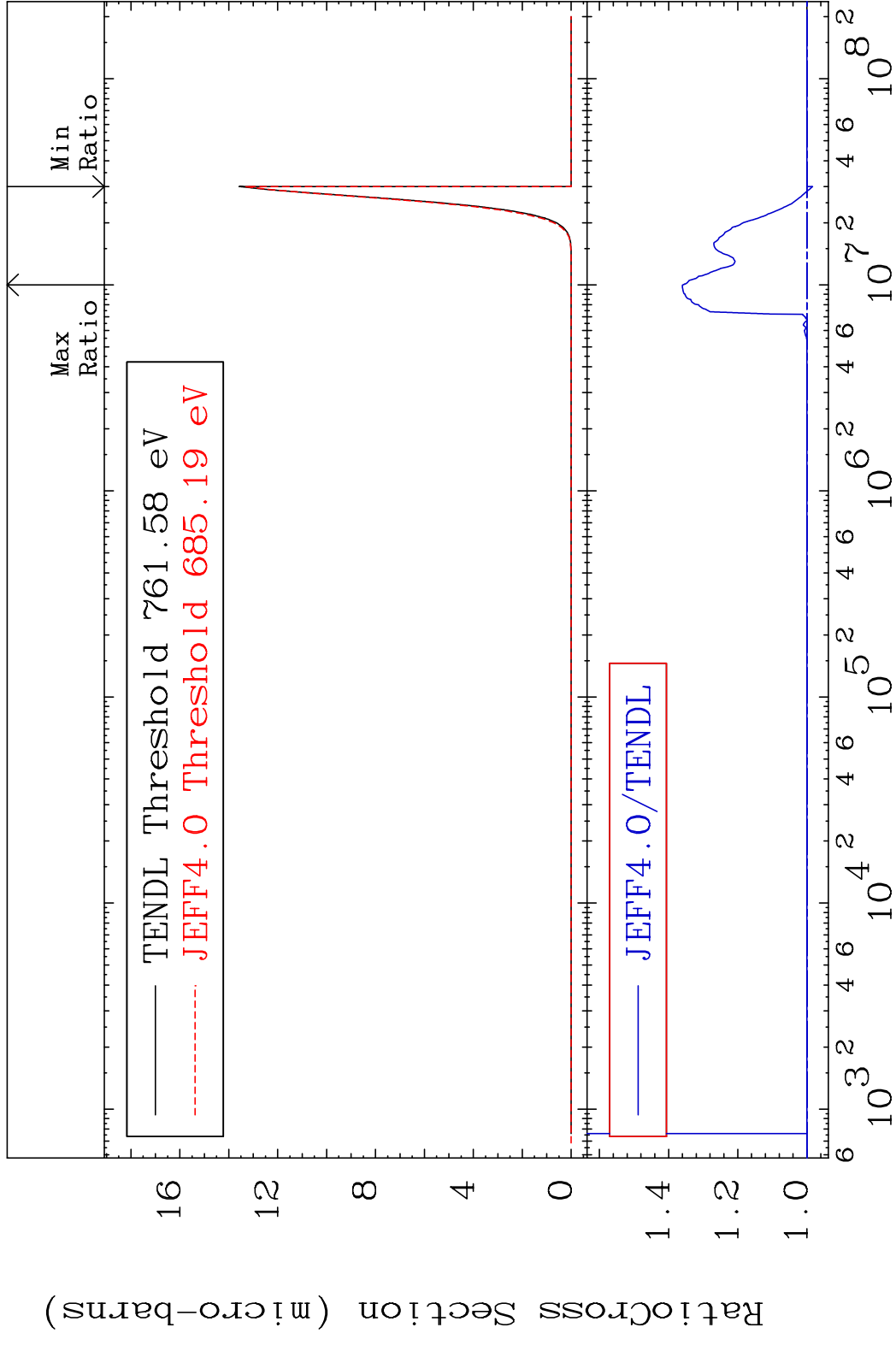
64-Gd-150

MAT 6419

(n,p) α

64-Gd-150

Cross Section -1.631 To 36.02 %

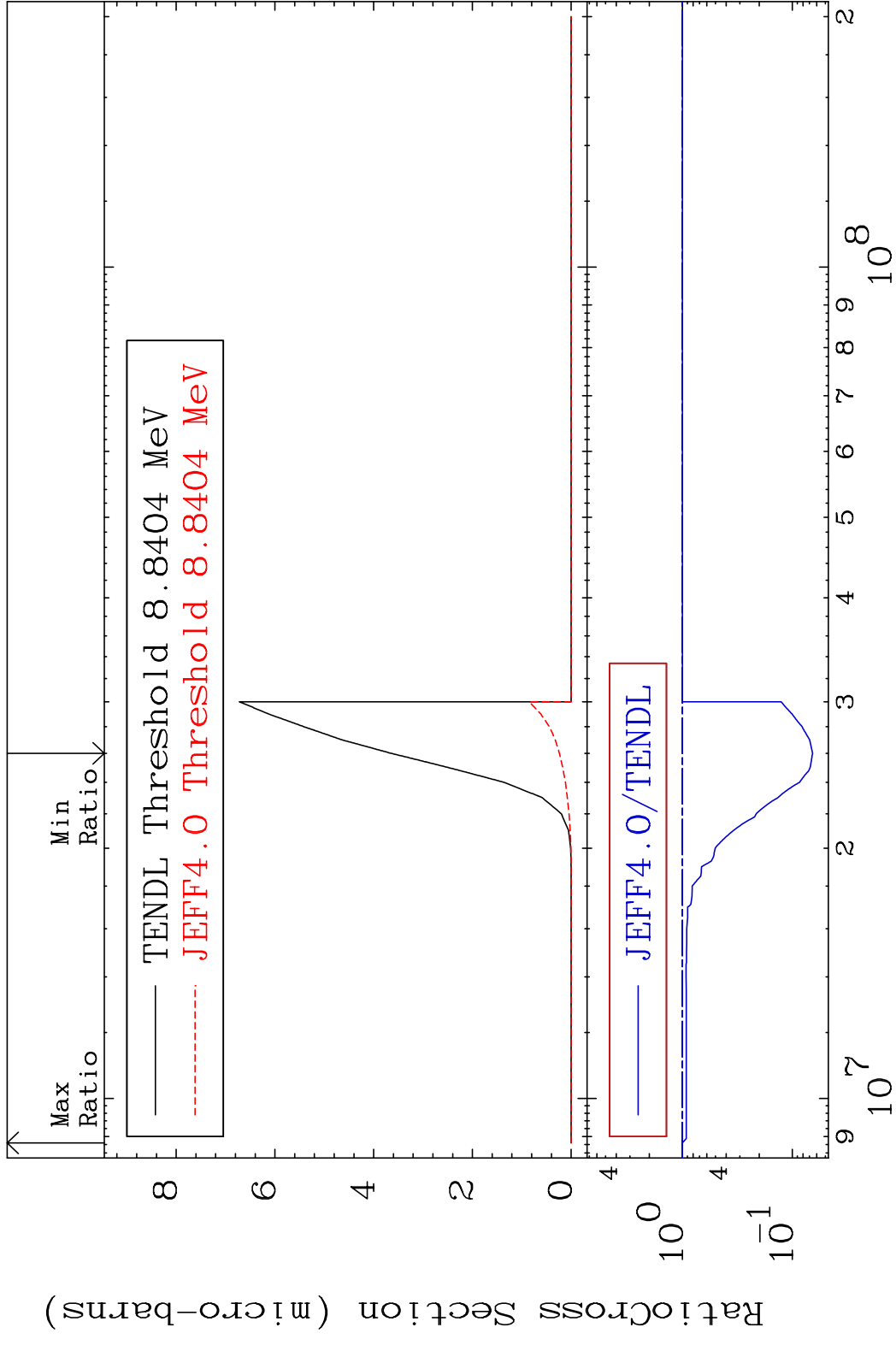


60

Incident Energy (eV)

64-Gd-150

MAT 6419 (n,p) d 64-Gd-150
 Cross Section -93.45 To 0.000 %



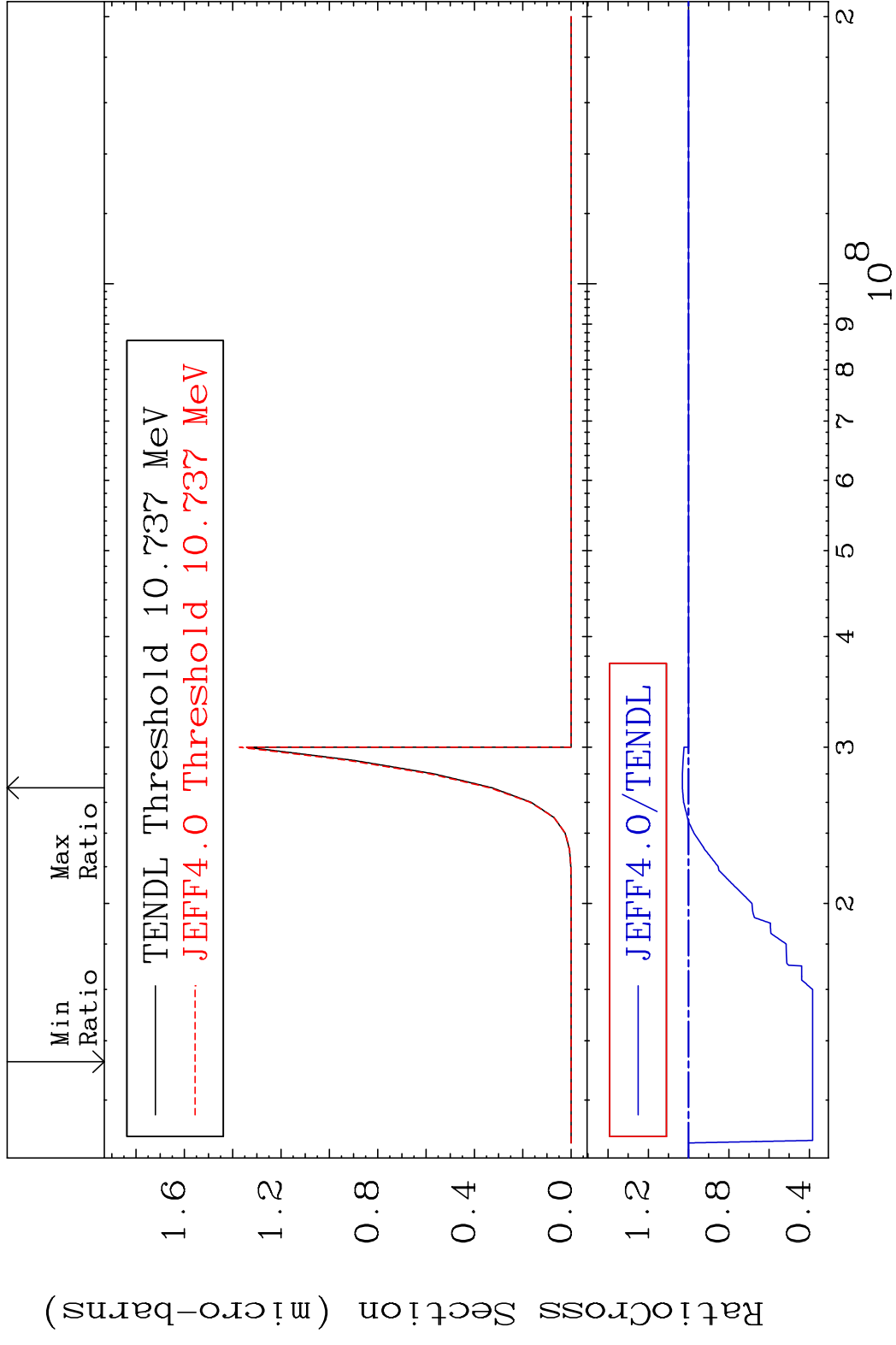
61 Incident Energy (eV) 64-Gd-150

MAT 6419

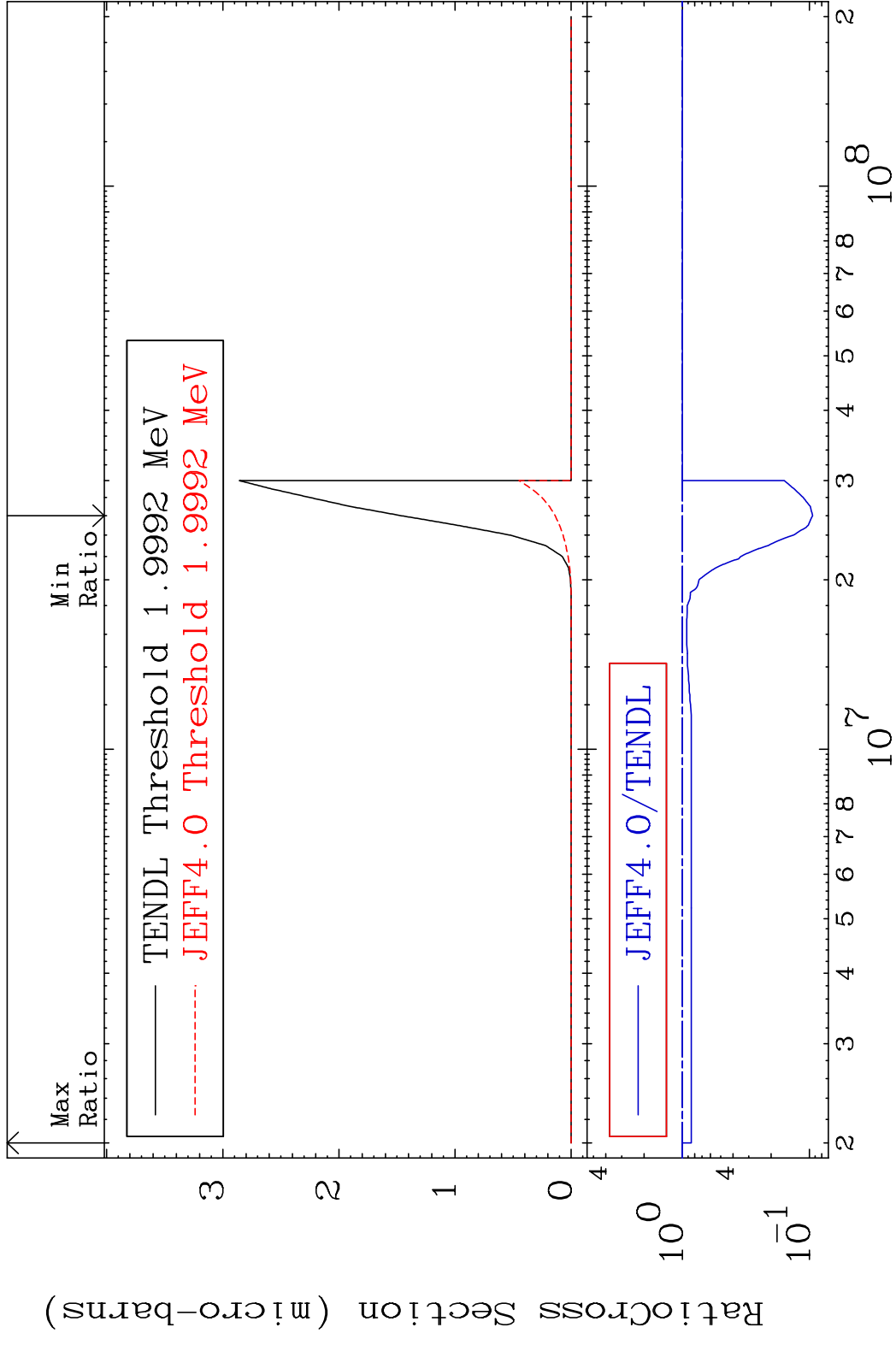
(n,p) t

64-Gd-150

Cross Section -61.59 To 3.085 %



MAT 6419 (n,d) α 64-Gd-150
 Cross Section -90.56 To 0.000 %



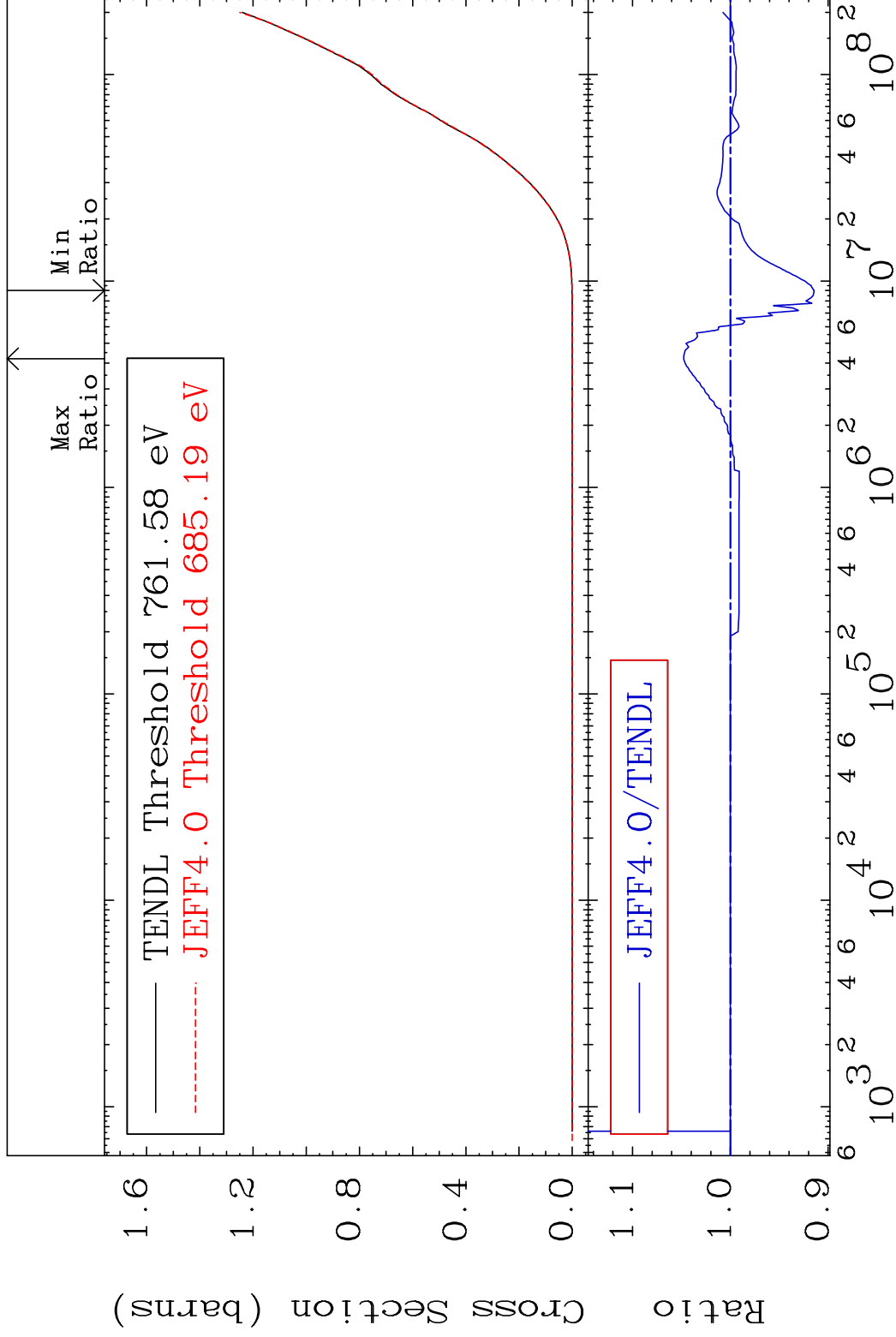
63 Incident Energy (eV) 64-Gd-150

MAT 6419

Hydrogen Production

64-Gd-150

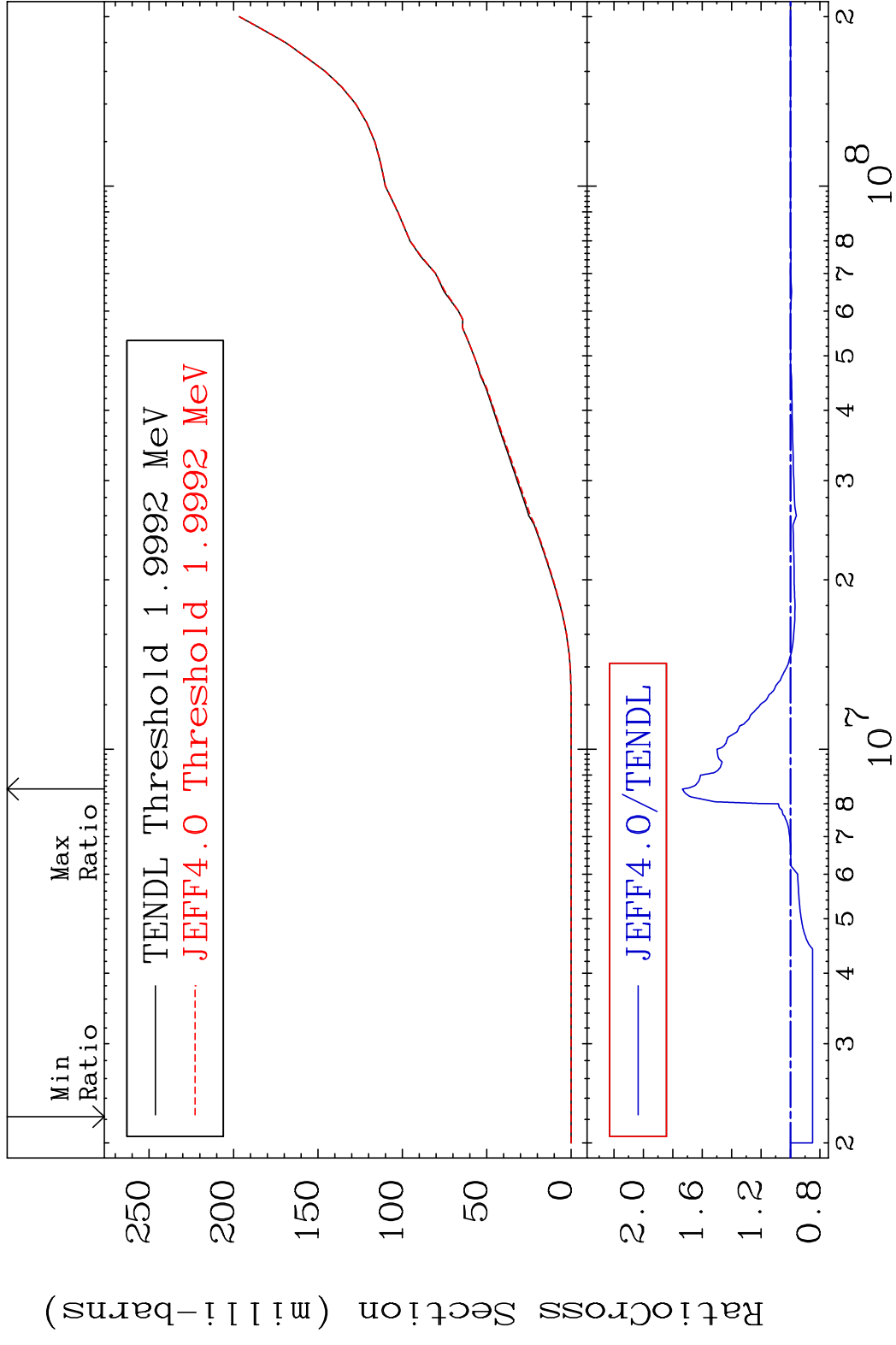
Cross Section -8.559 To 4.774 %



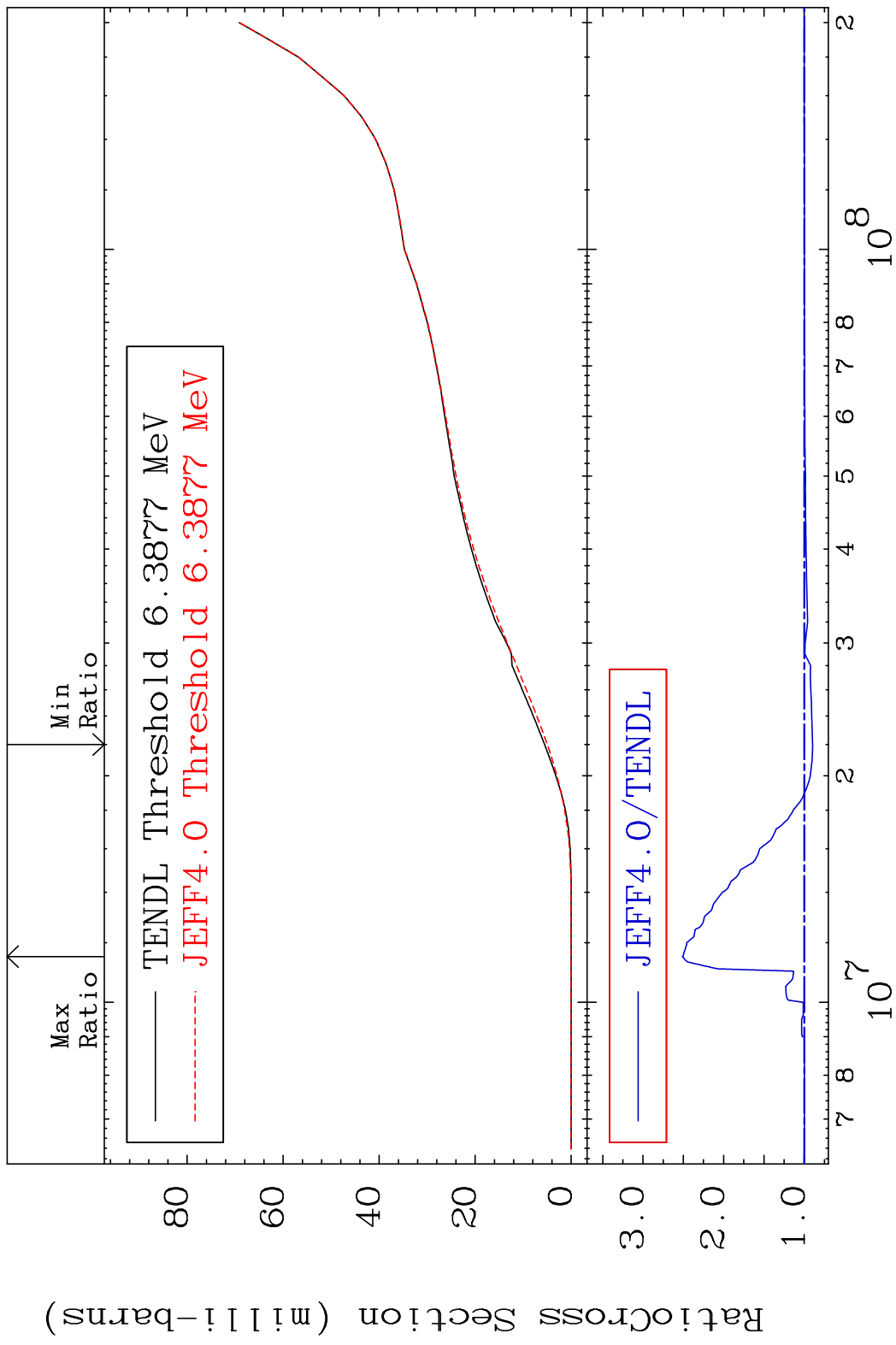
64

Incident Energy (eV)

64-Gd-150



MAT 6419 Tritium Production 64-Gd-150
 Cross Section -10.27 To 151.2 %



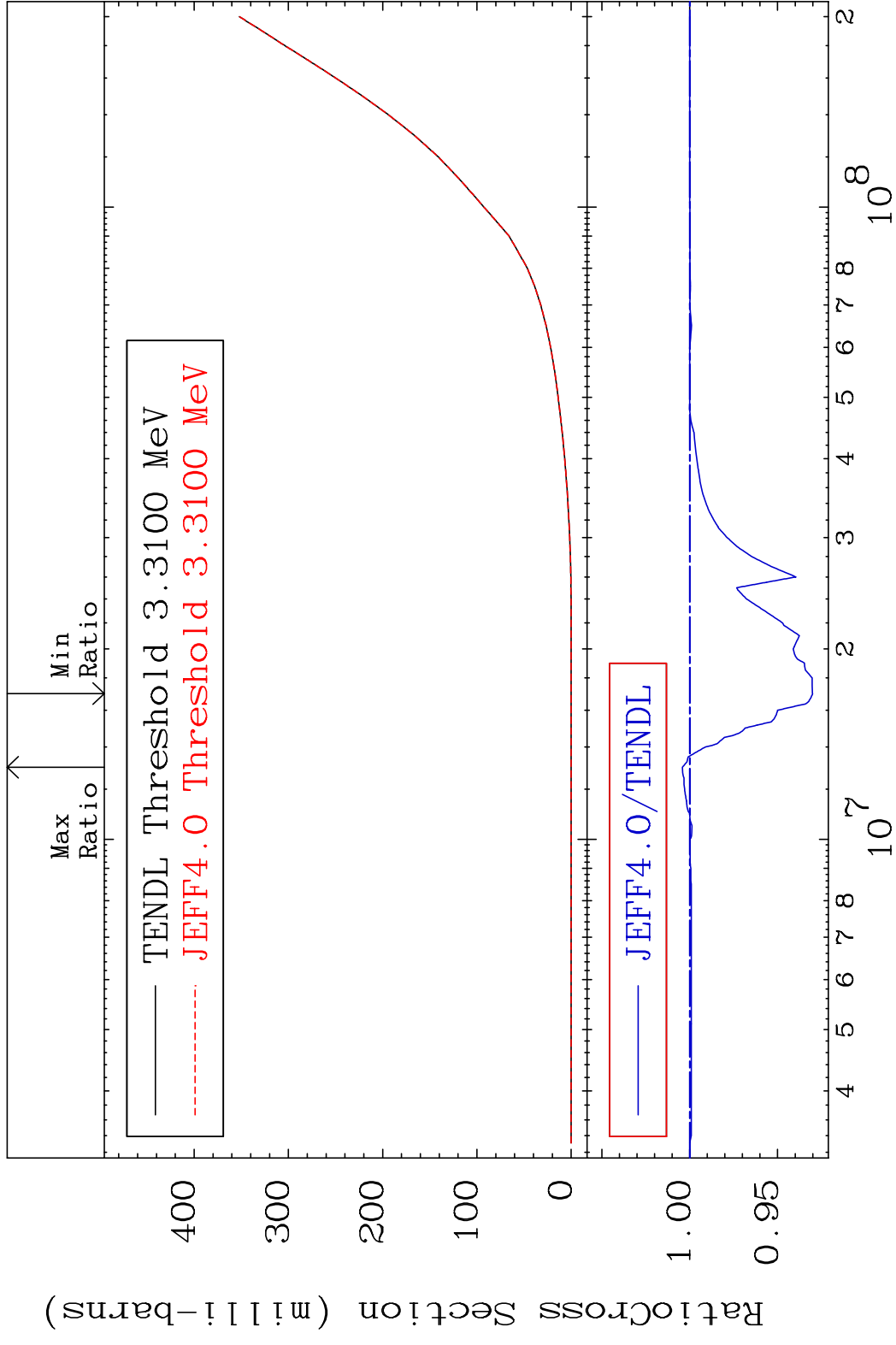
66 64-Gd-150

MAT 6419

He-3 Production

64-Gd-150

Cross Section -6.990 To 0.421 %



67

Incident Energy (eV)

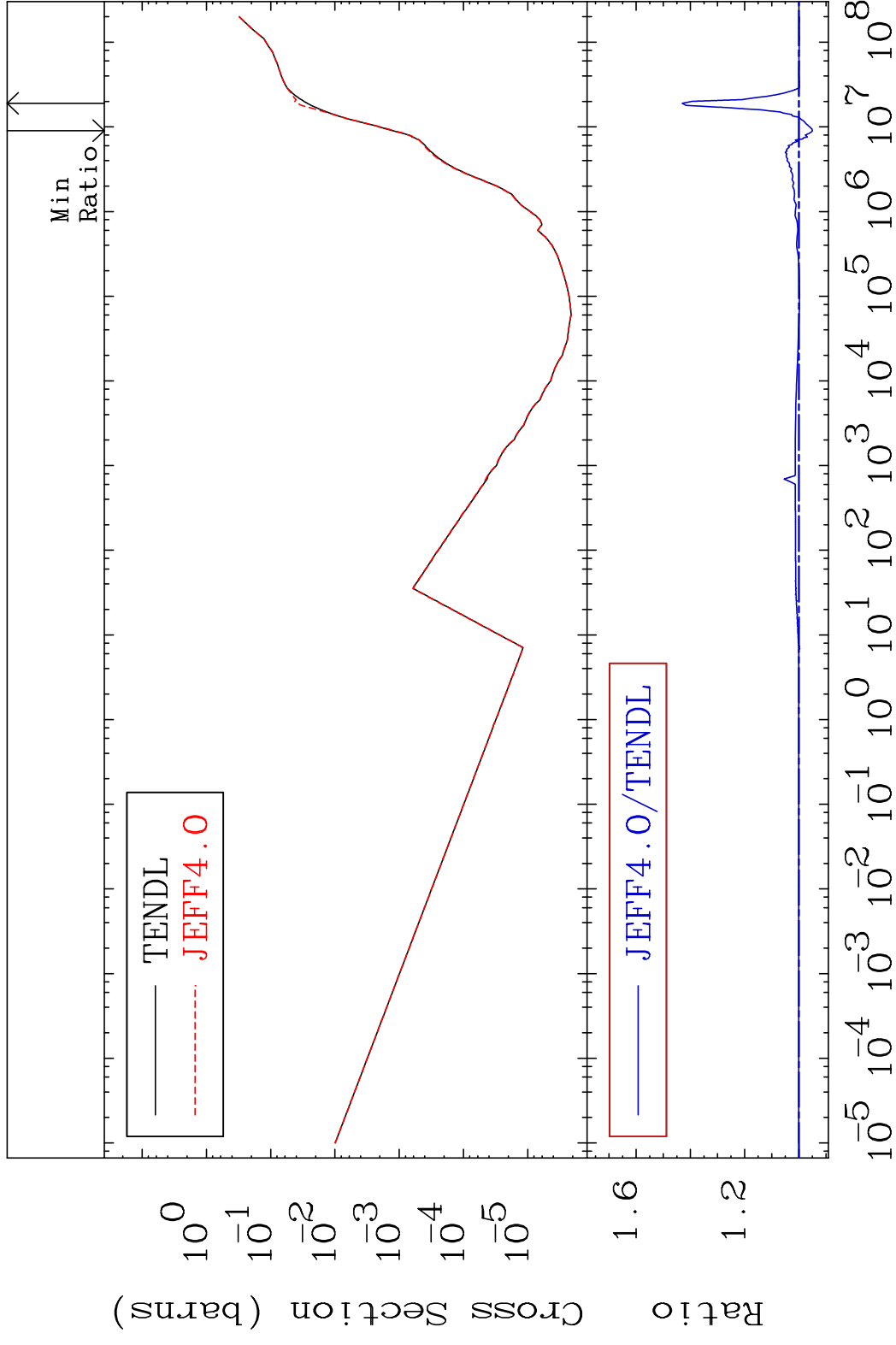
64-Gd-150

MAT 6419

He-4 Production

64-Gd-150

Cross Section -5.057 To 42.97 %

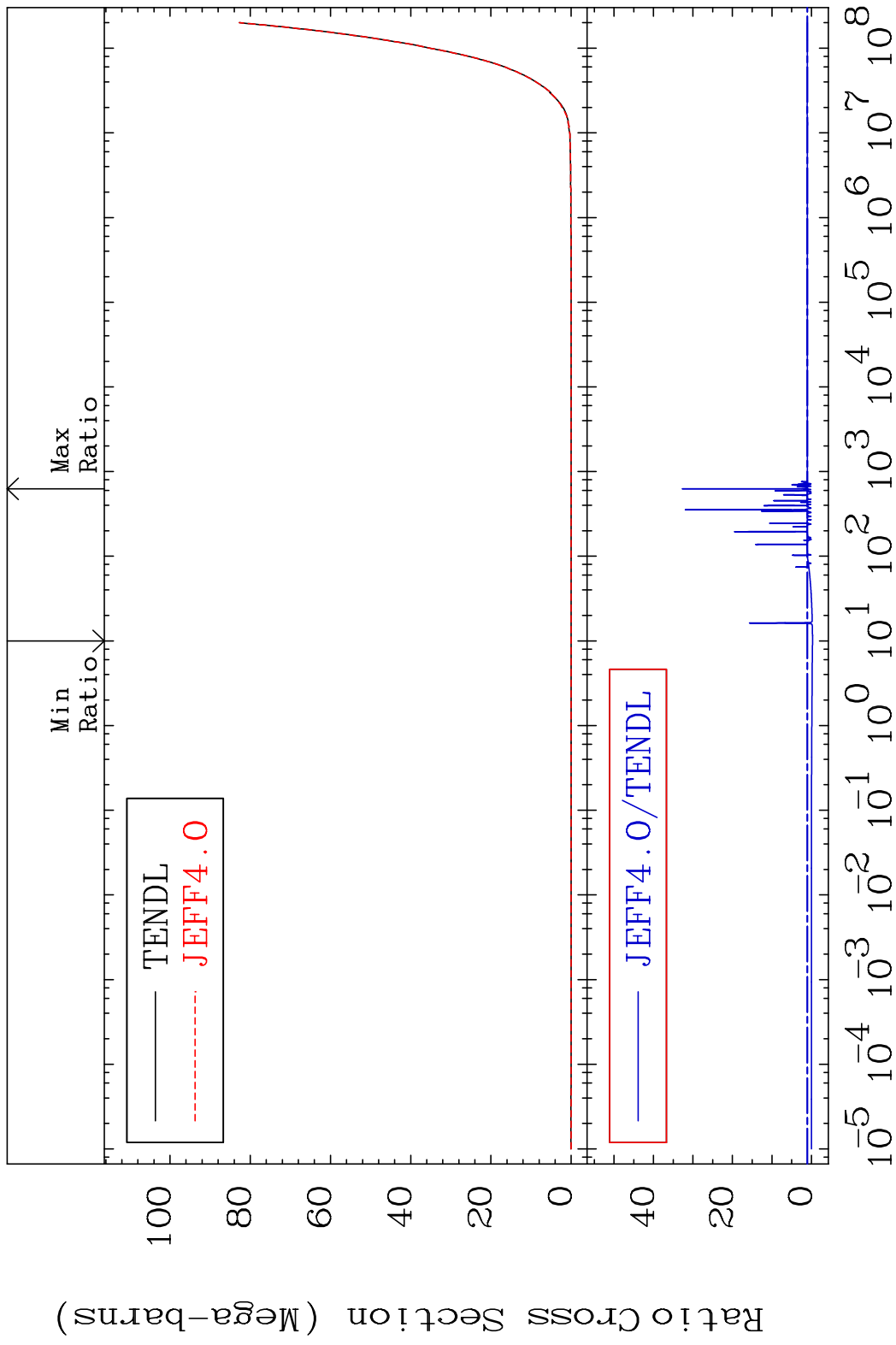


68

Incident Energy (eV)

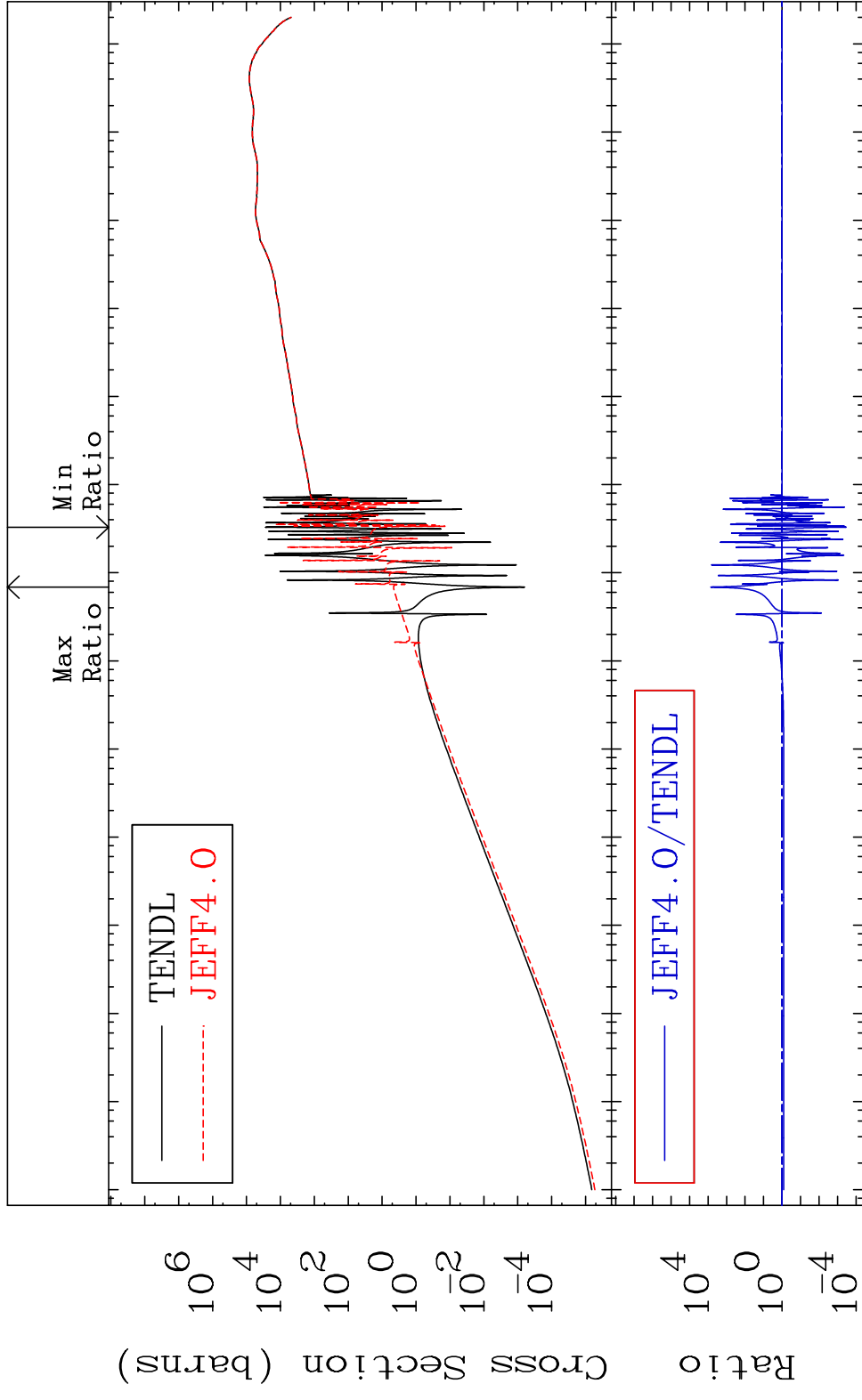
64-Gd-150

MAT 6419 Kerma total (eV-barns) 64-Gd-150
 Cross Section -130.4 To 3169. %



MAT 6419

Kerma elastic Cross Section -99.97 To 9999. %
64-Gd-150

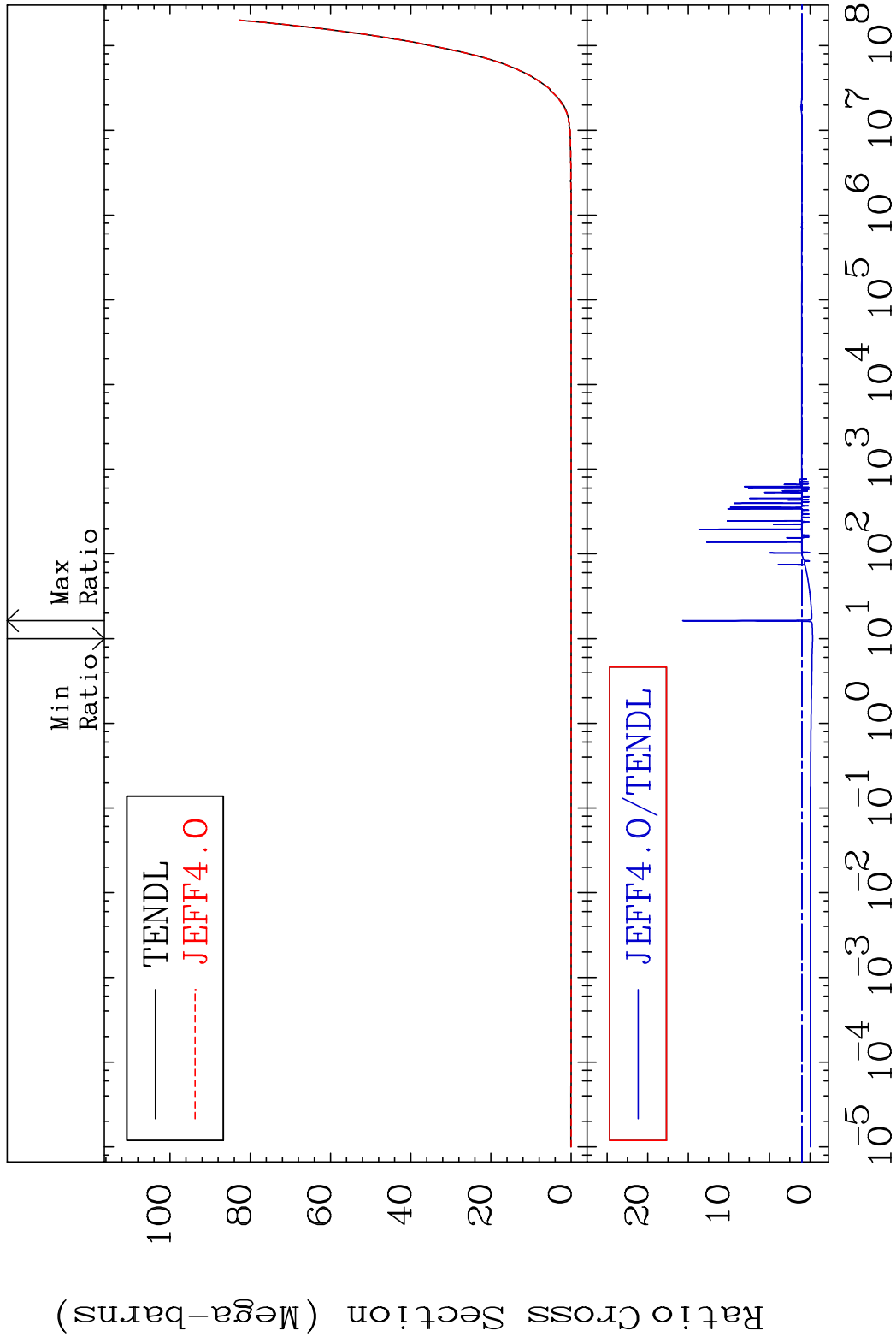


70

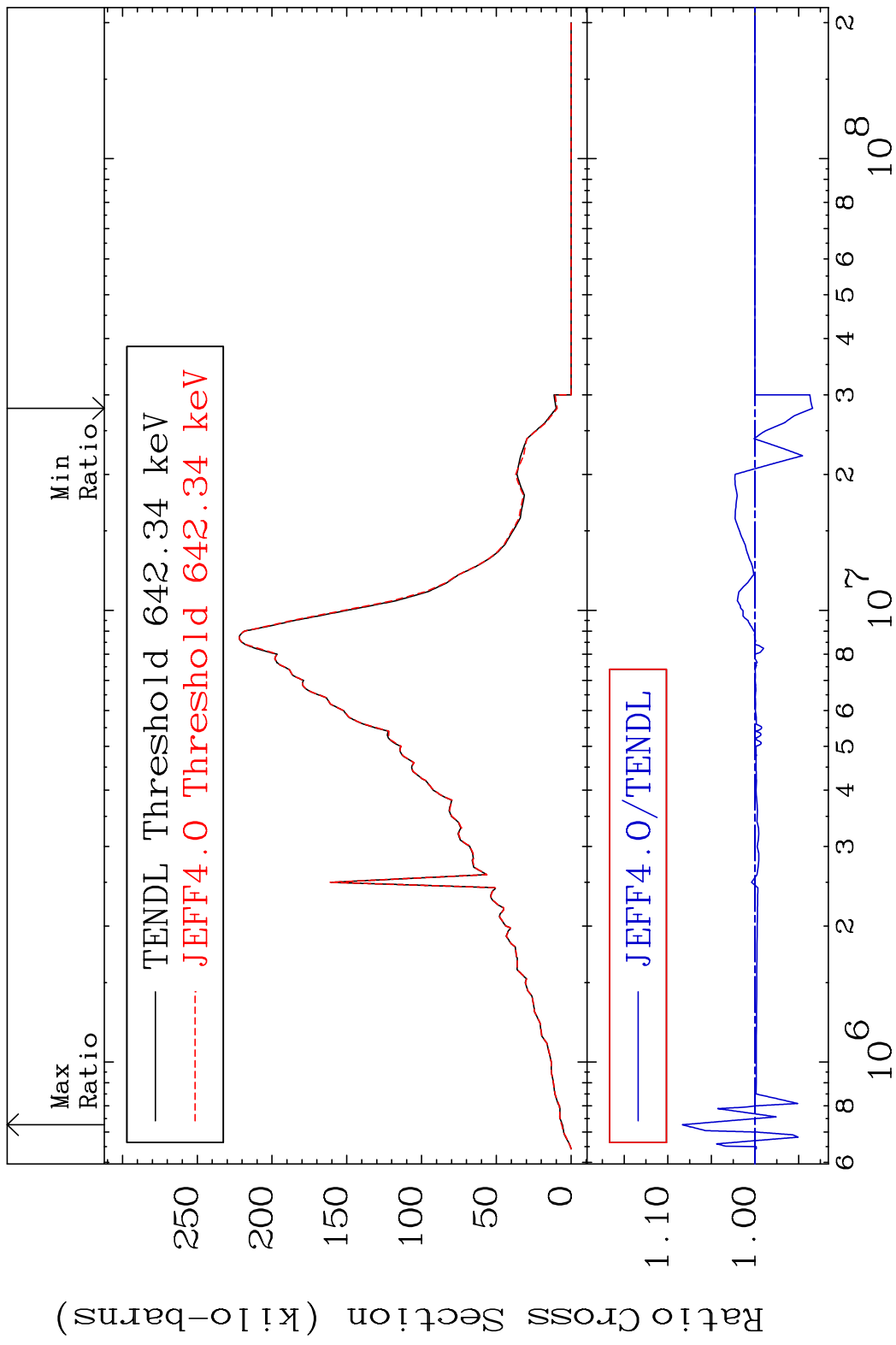
Incident Energy (eV)

64-Gd-150

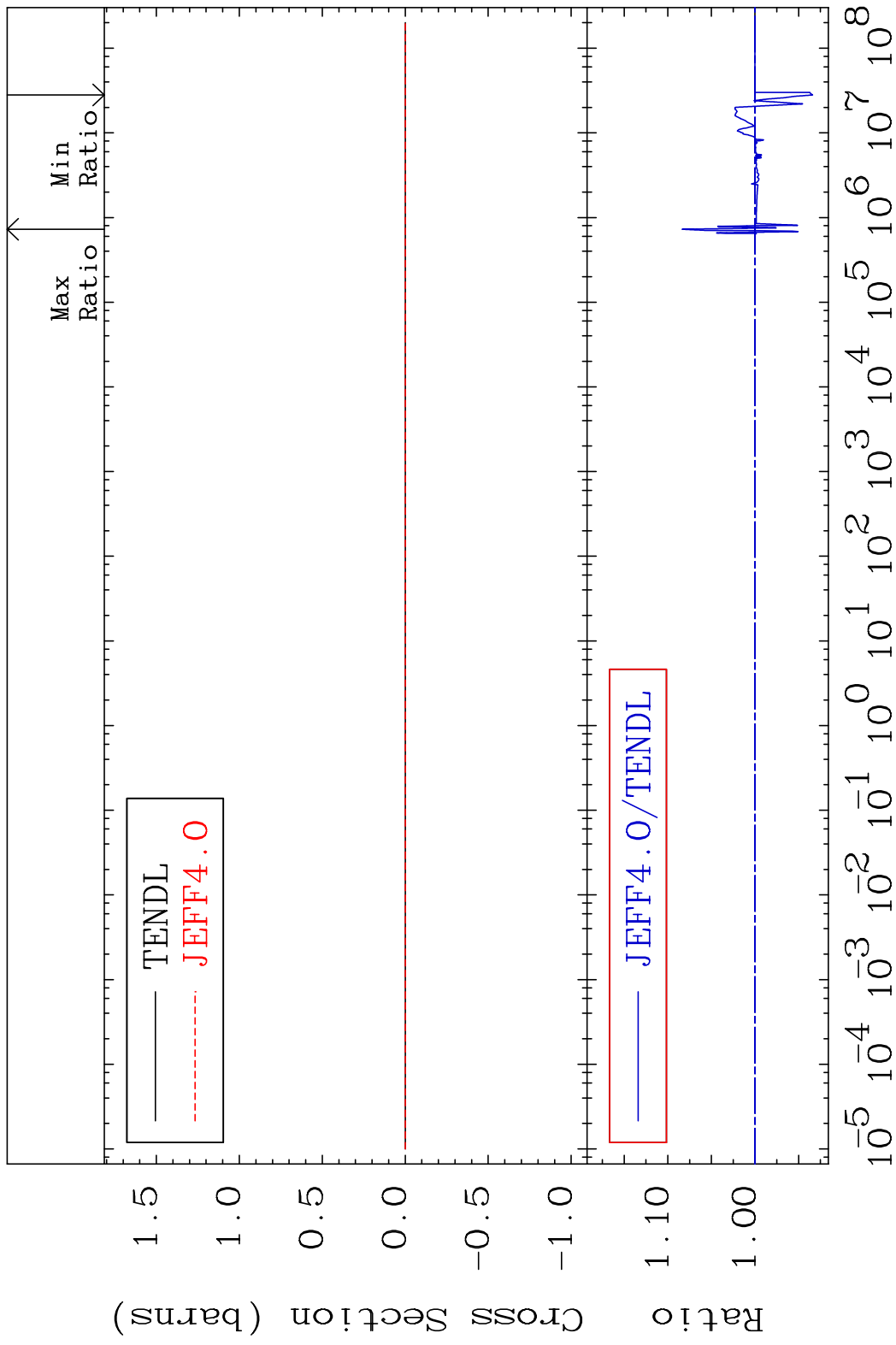
MAT 6419 Kerma non-elastic (all but mt2) 64-Gd-150
 Cross Section -130.9 To 1474. %



MAT 6419 Kerma inelastic (mt51-91) 64-Gd-150
 Cross Section -6.601 To 8.332 %

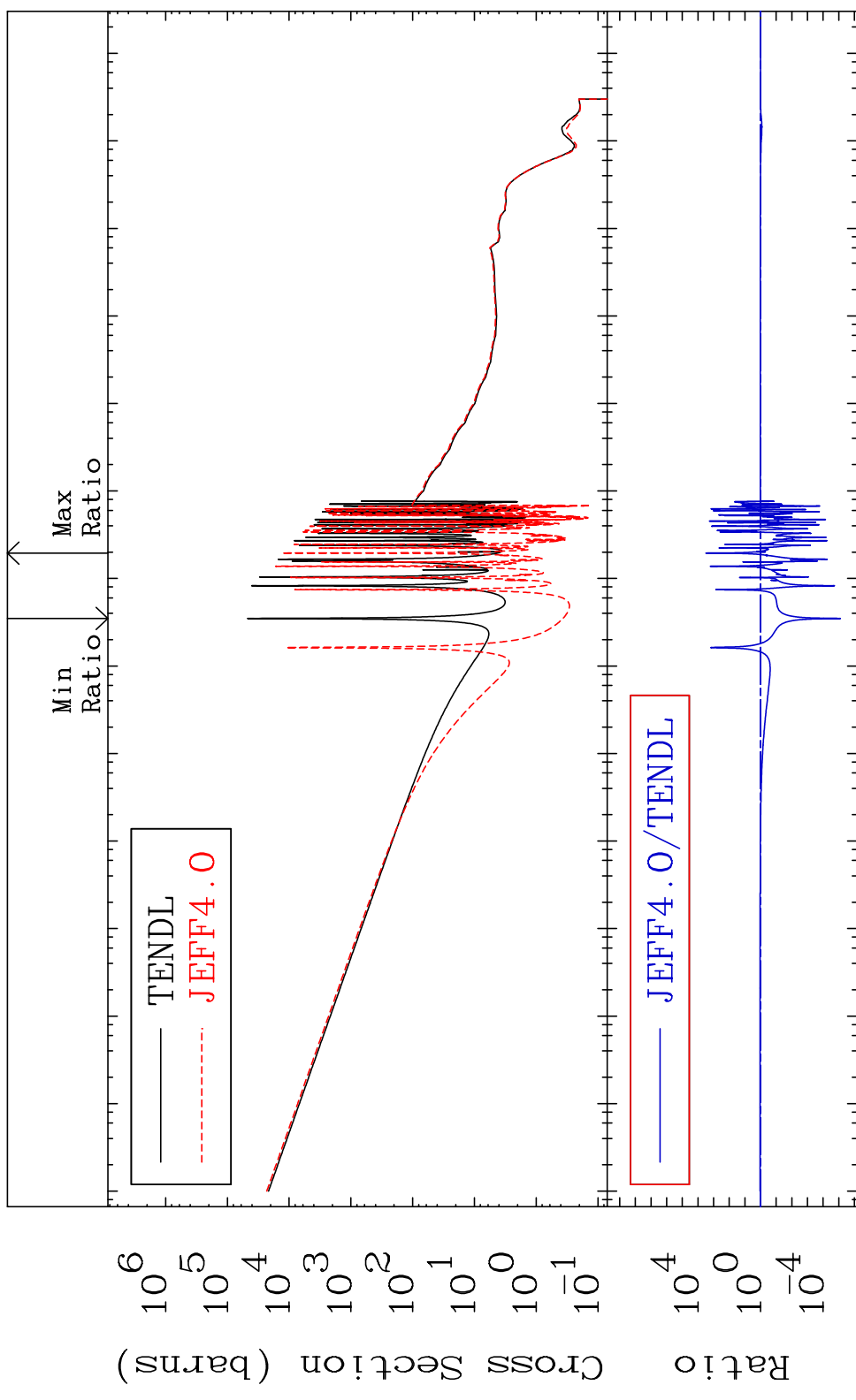


MAT 6419 Kerma fission (mt18 or mt19-20-21-38) 64-Gd-150
 Cross Section -6.601 To 8.332 %



MAT 6419

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

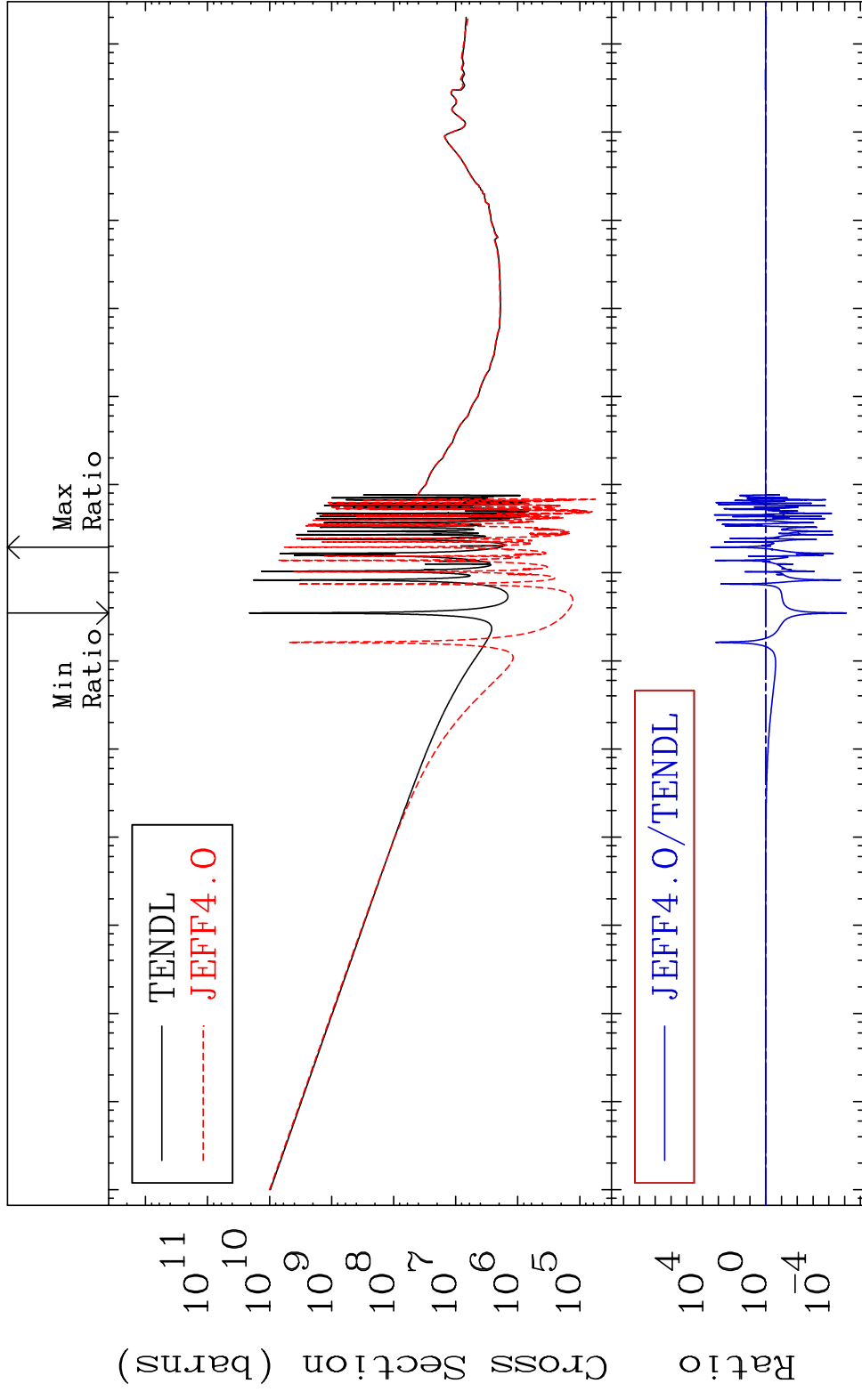


74

Incident Energy (eV) 64-Gd-150

MAT 6419

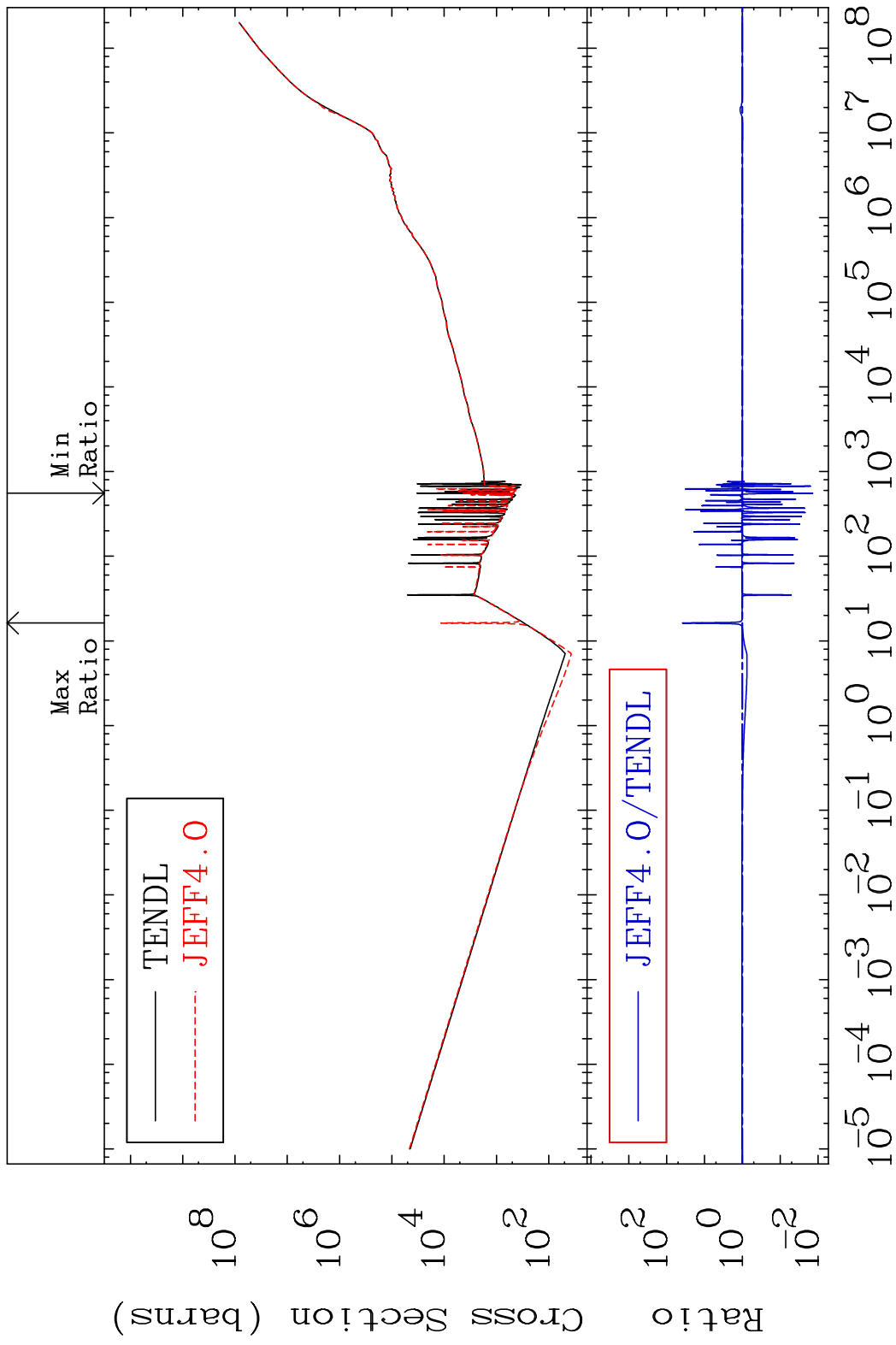
Total photon (eV-barns) 64-Gd-150
Cross Section -100.0 To 9999. %



75

Incident Energy (eV) 64-Gd-150

MAT 6419 Total kinematic kerma (high limit) 64-Gd-150
 Cross Section -98.60 To 3762. %

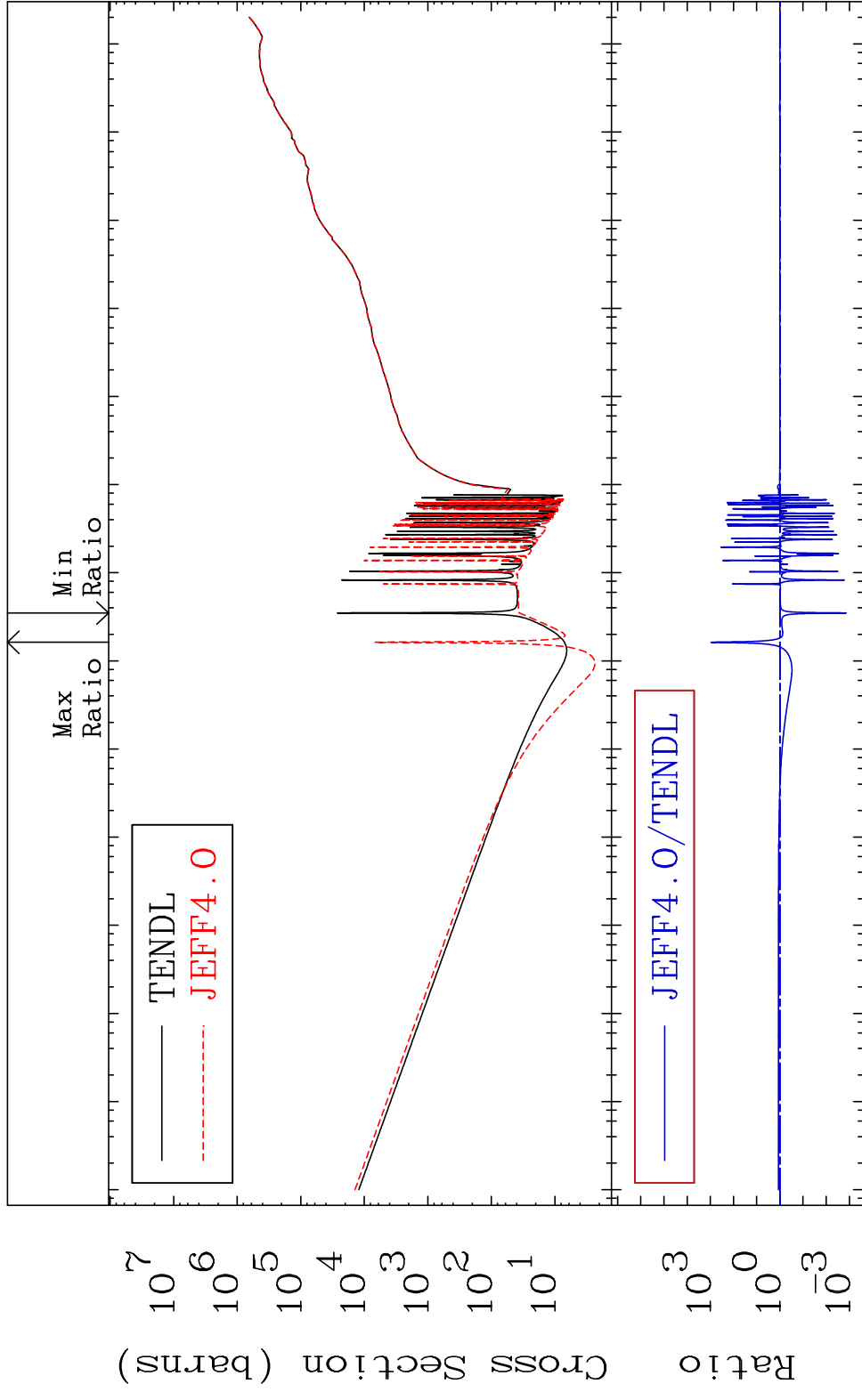


MAT 6419

Dpa total (eV-barns)

64-Gd-150

Cross Section -99.86 To 9999. %

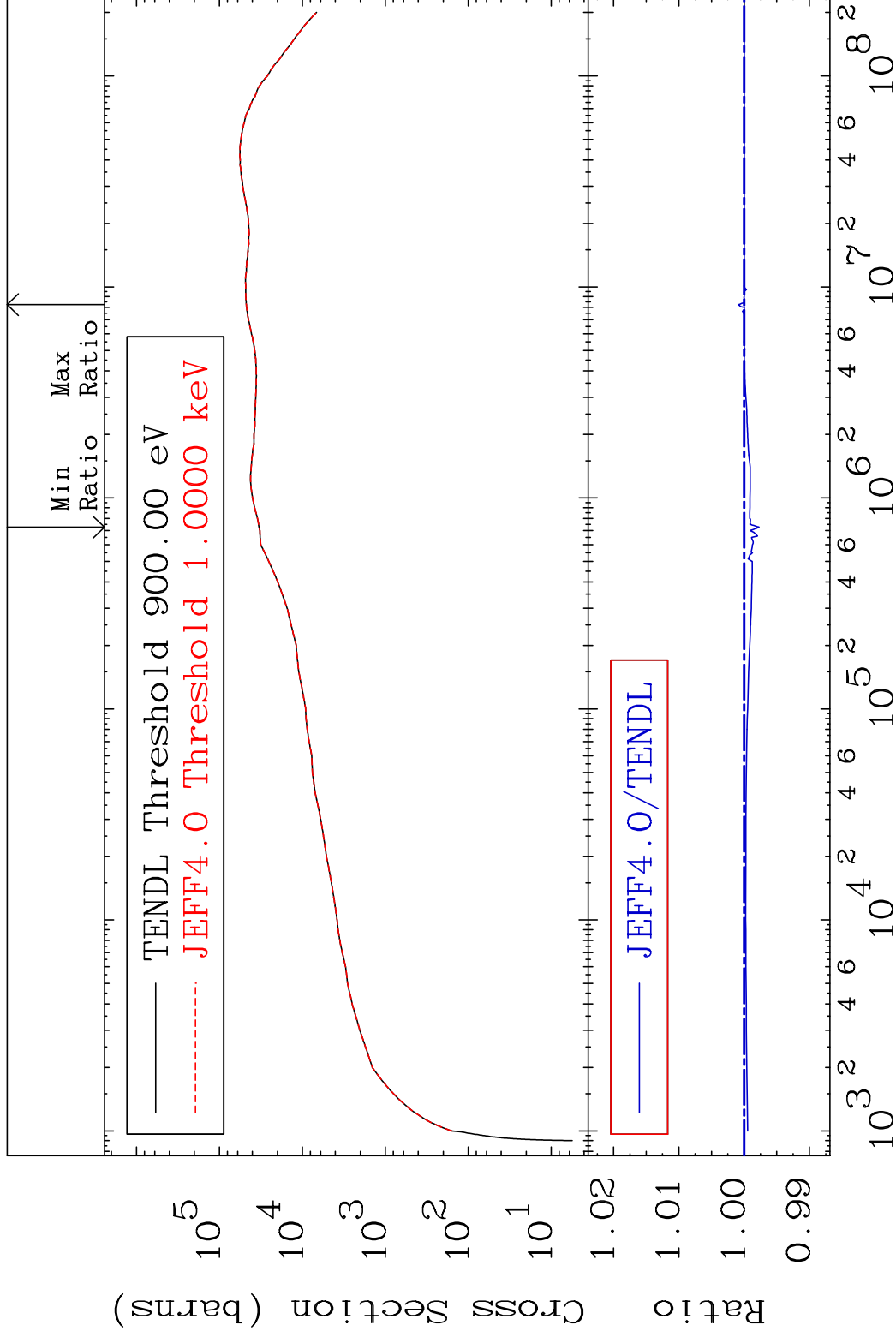


MAT 6419

Dpa elastic (mt2)

64-Gd-150

Cross Section -0.230 To 0.084 %



78

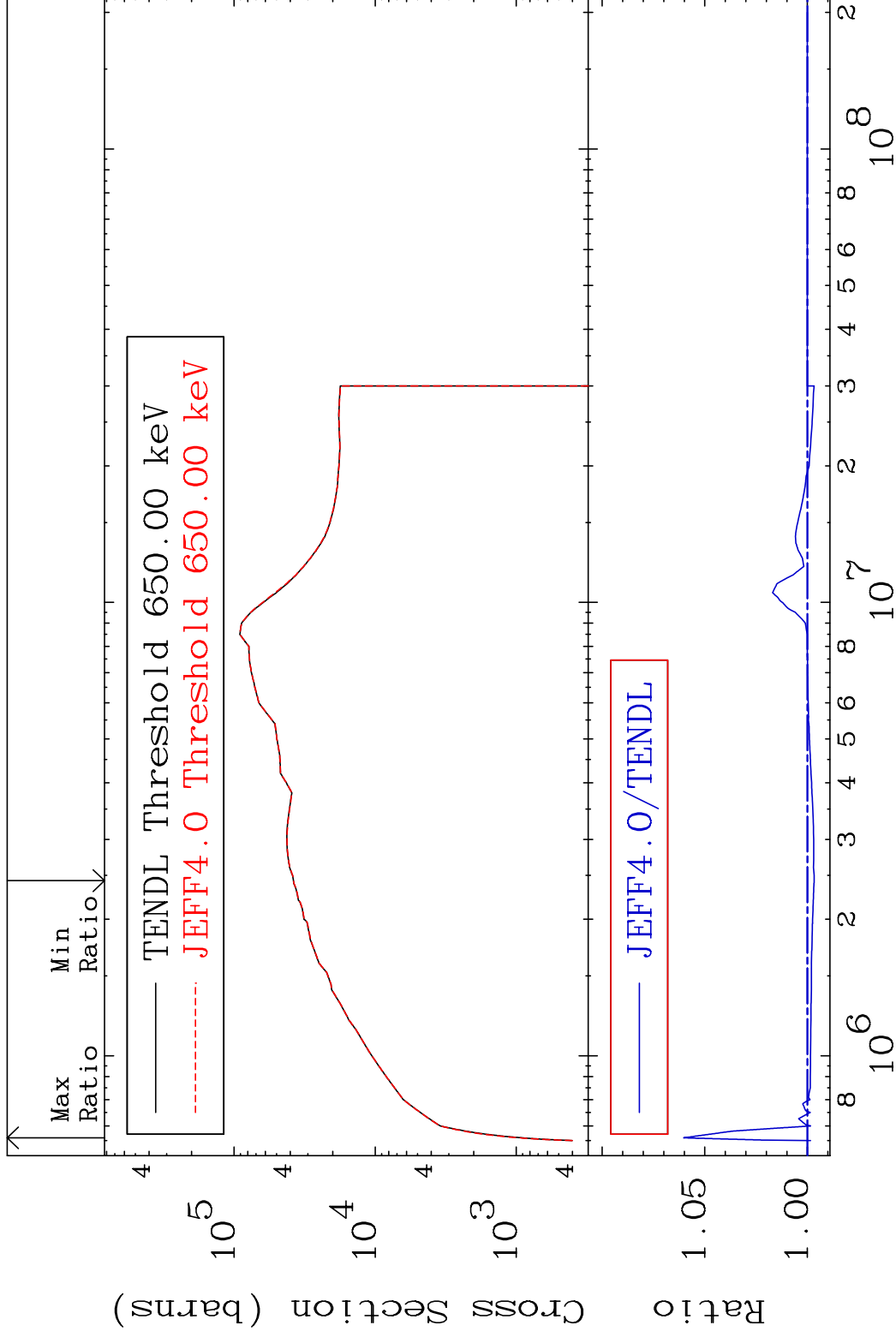
Incident Energy (eV)

64-Gd-150

MAT 6419

Dpa inelastic (mt51-91) 64-Gd-150

Cross Section -0.326 To 6.030 %

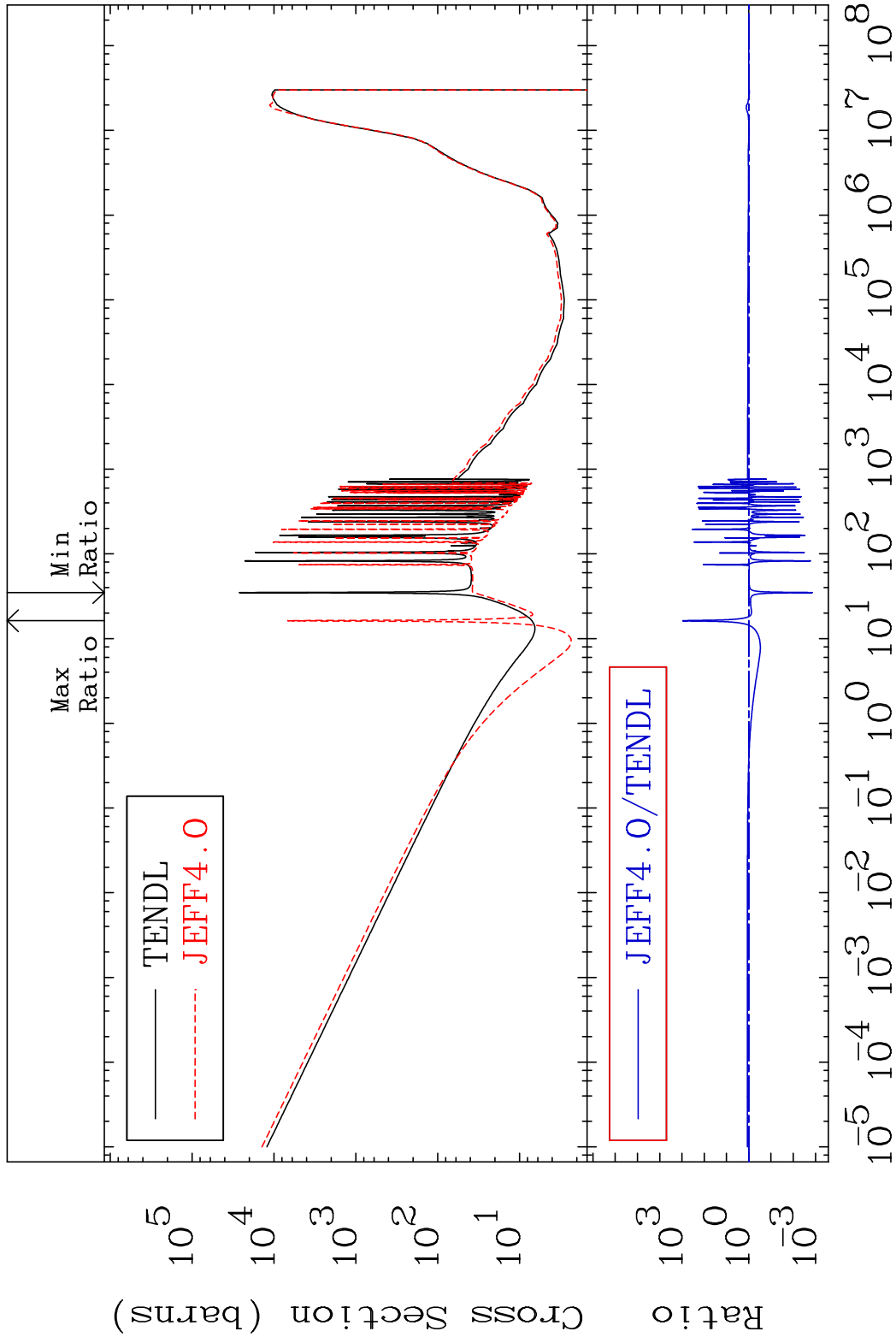


79

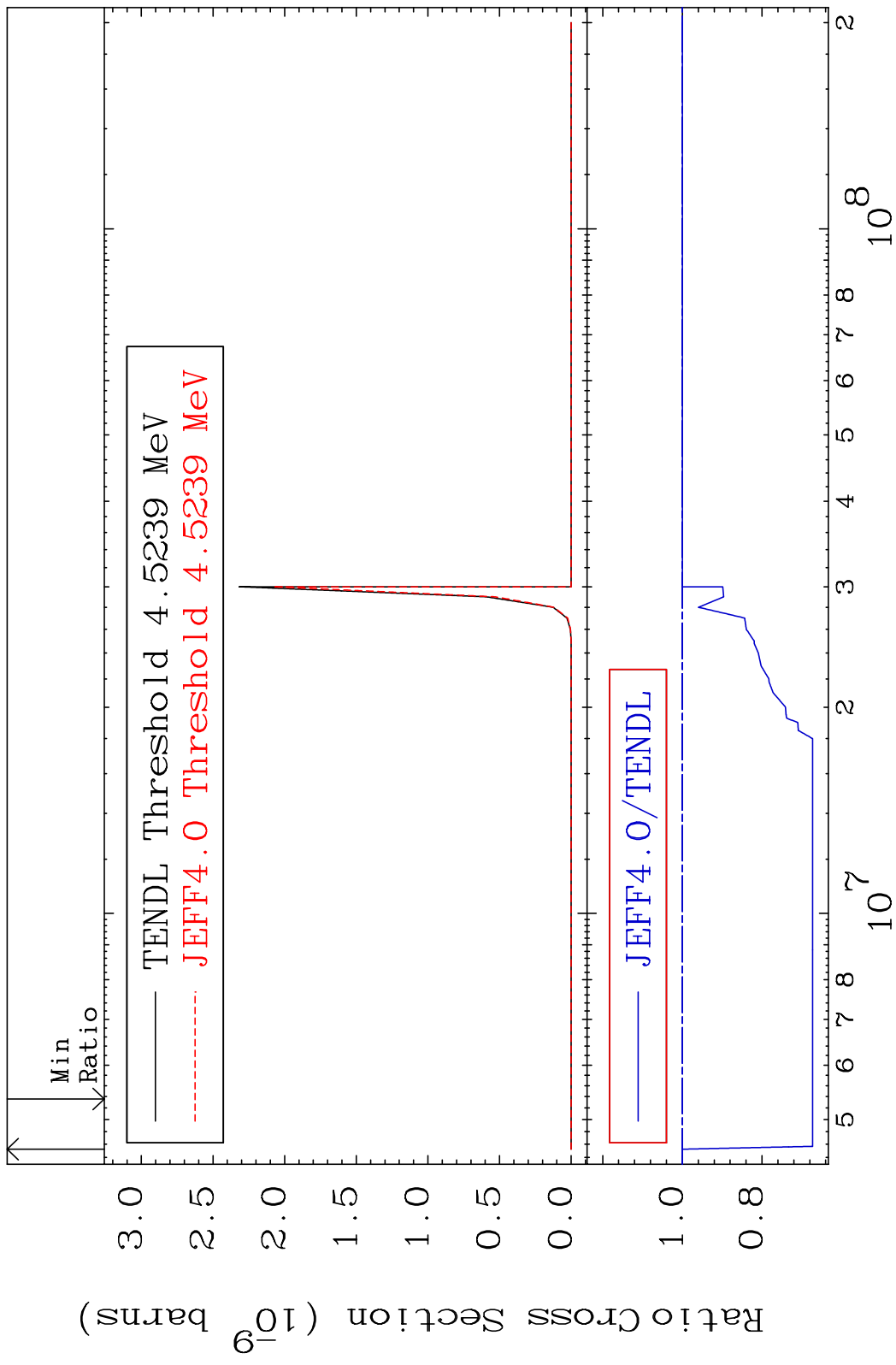
Incident Energy (eV)

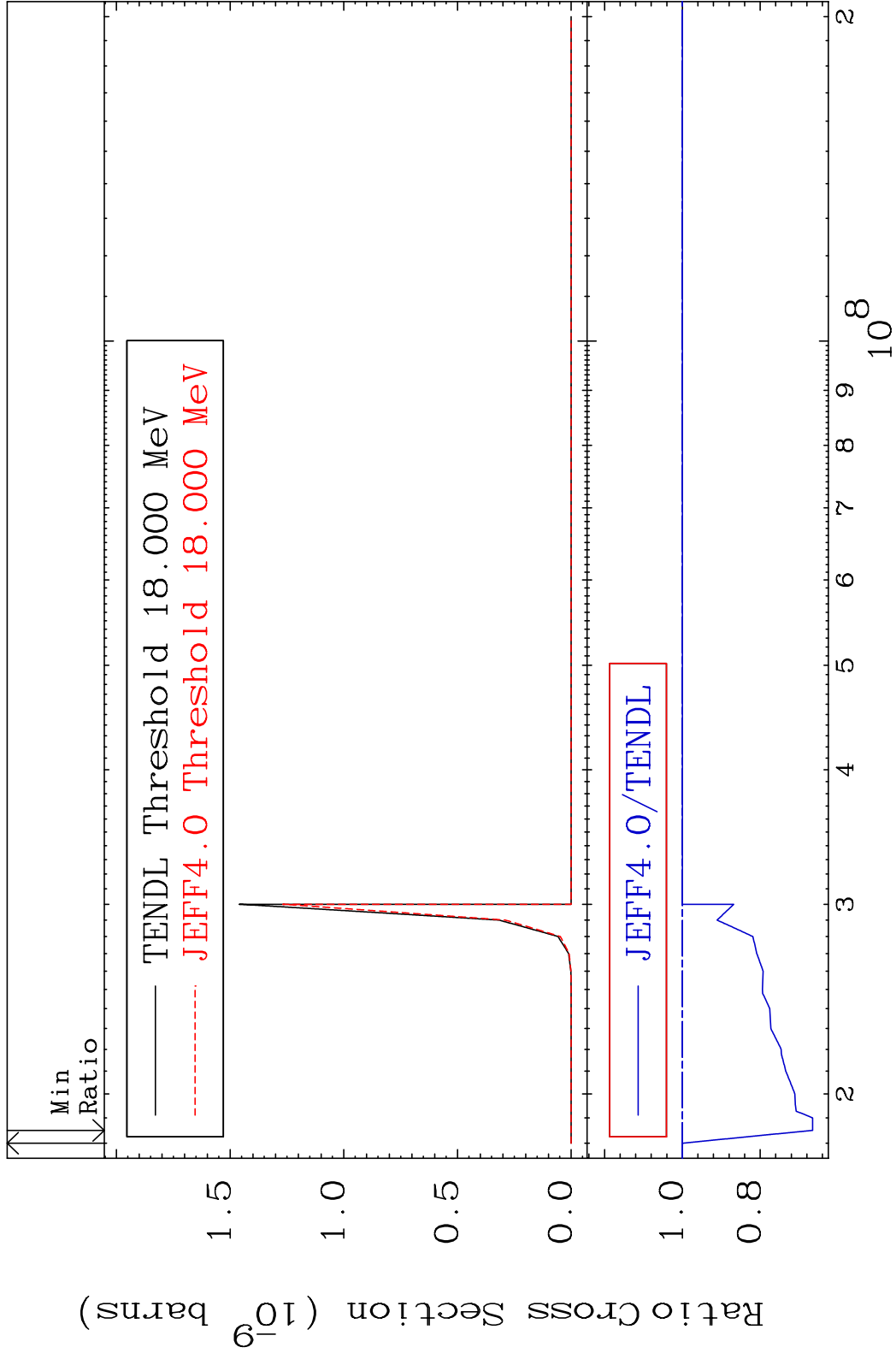
64-Gd-150

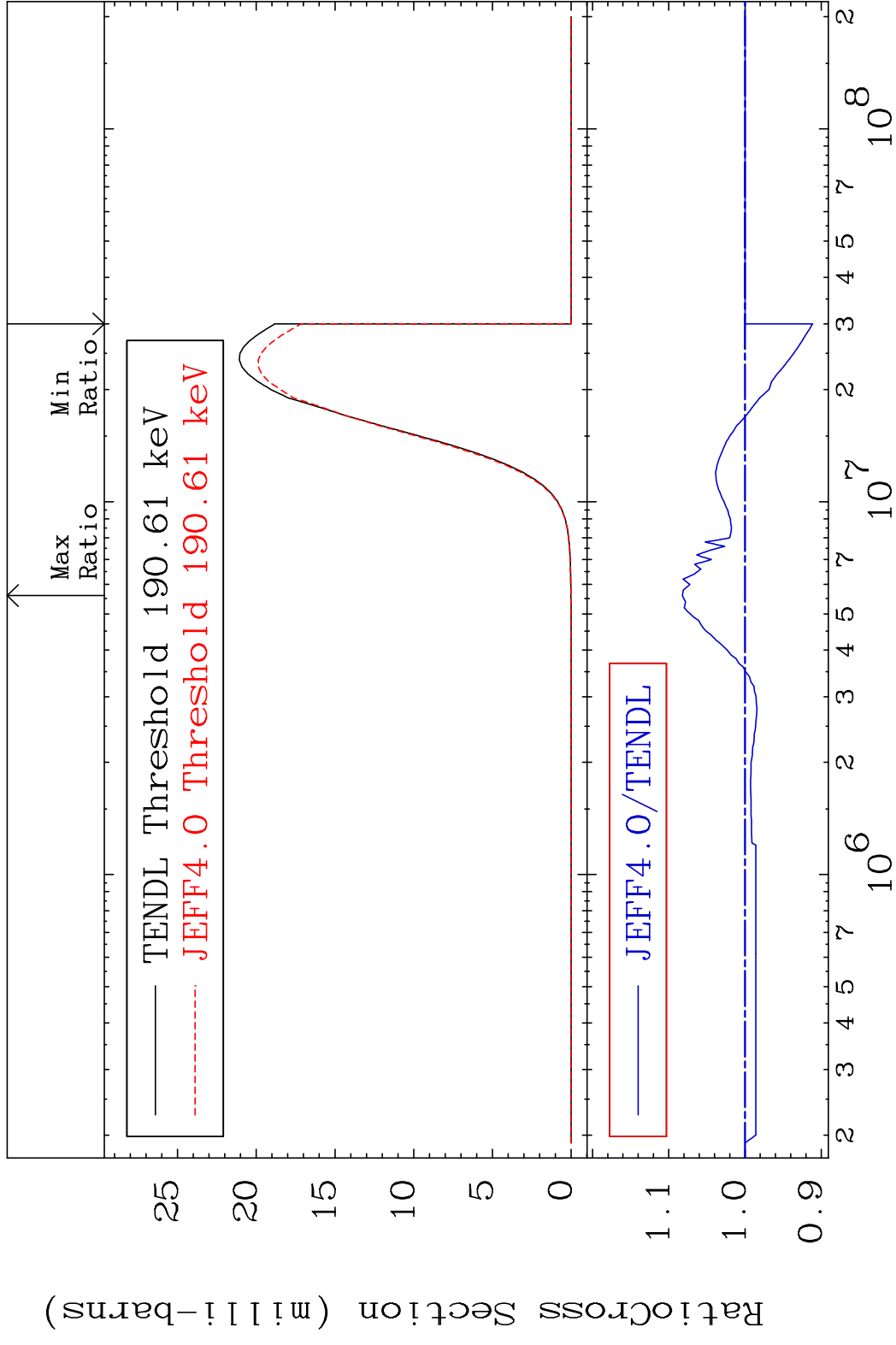
MAT 6419 Dpa disappearance (mt102 -120) 64-Gd-150
 Cross Section -99.86 To 9999. %



80 Incident Energy (eV) 64-Gd-150







MAT 6419 (n, p) : 63-Eu-150m1 64-Gd-150
 Radionuclide Production Cross Section 8.826 %

