

Program Complot
(Version 2018-1)

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

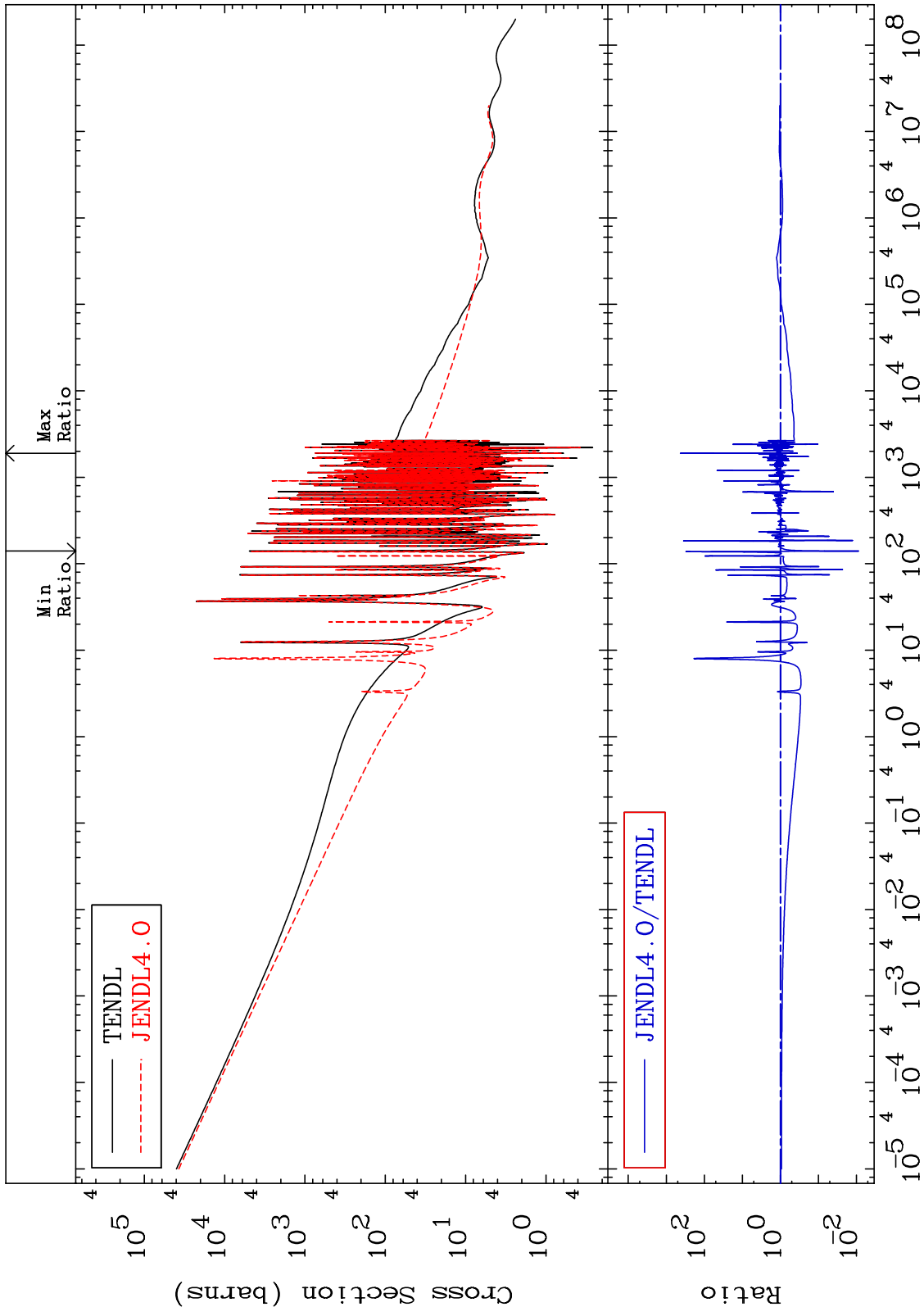
Press Mouse Button to Start

MAT 6425

Total
Cross Section

64-Gd-152

-99.14 To 9999. %



1

Incident Energy (eV)

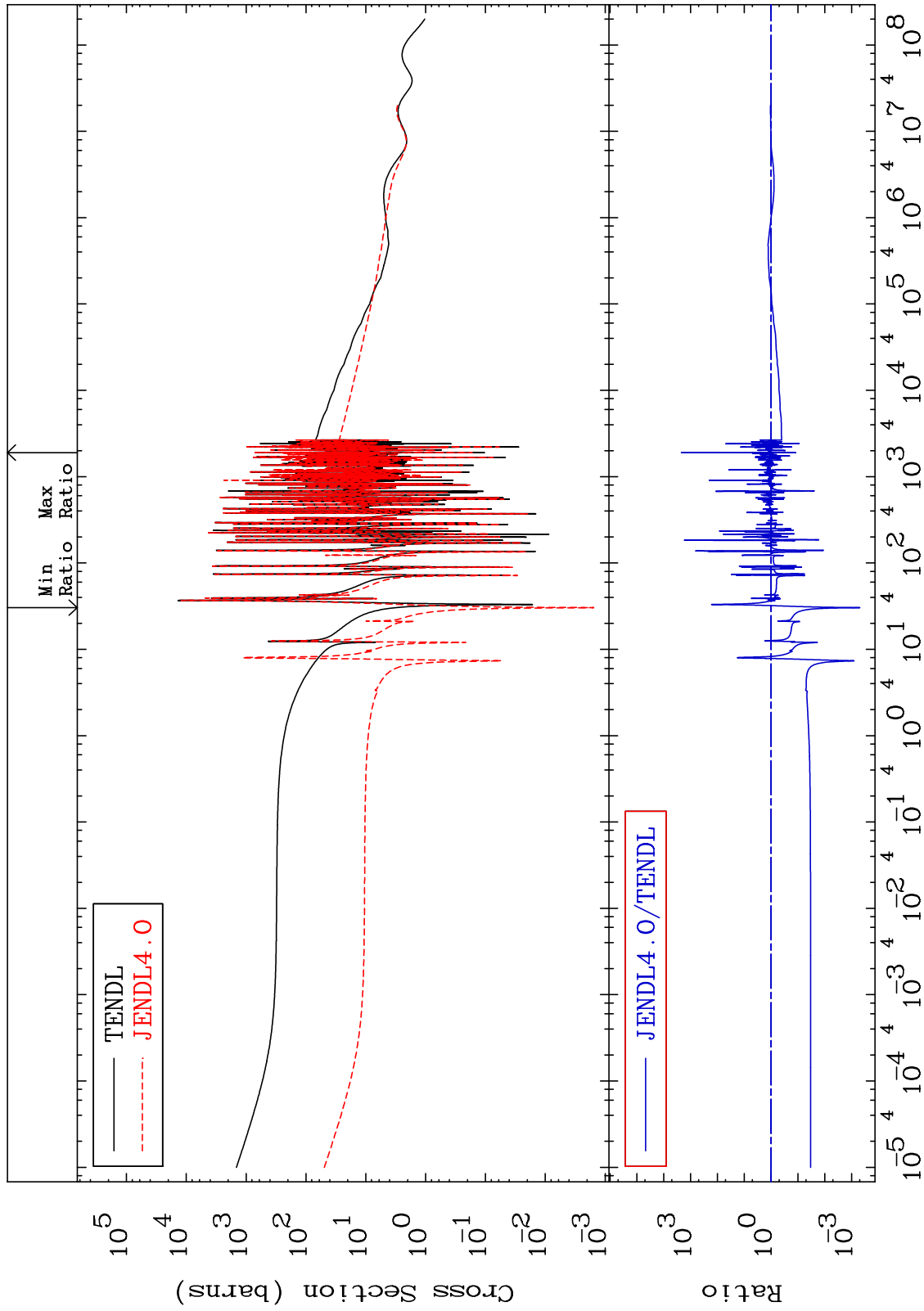
64-Gd-152

MAT 6425

Elastic
Cross Section

64-Gd-152

-99.95 To 9999. %



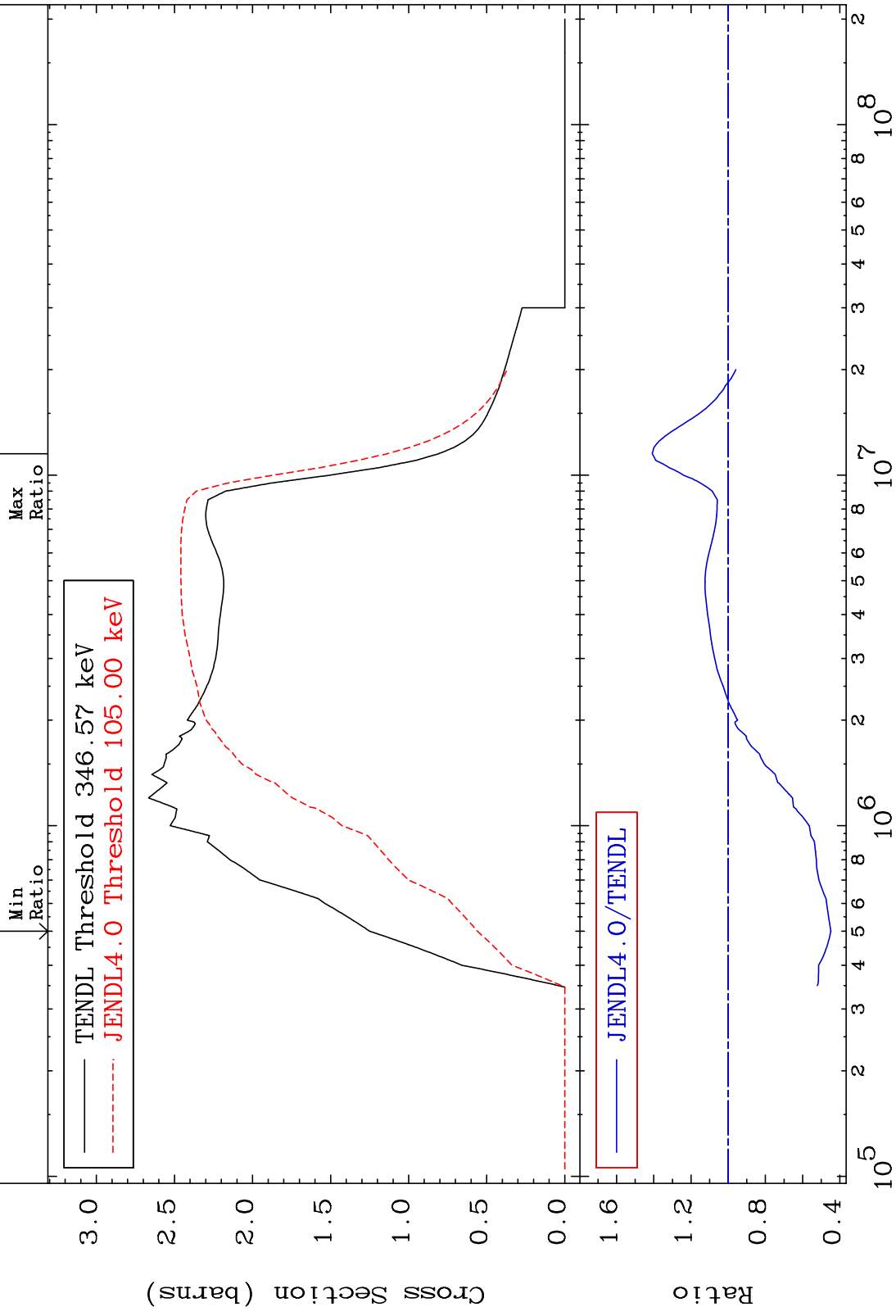
2

Incident Energy (eV)

64-Gd-152

MAT 6425 64-Gd-152 -55.20 To 40.82 %

Inelastic Cross Section

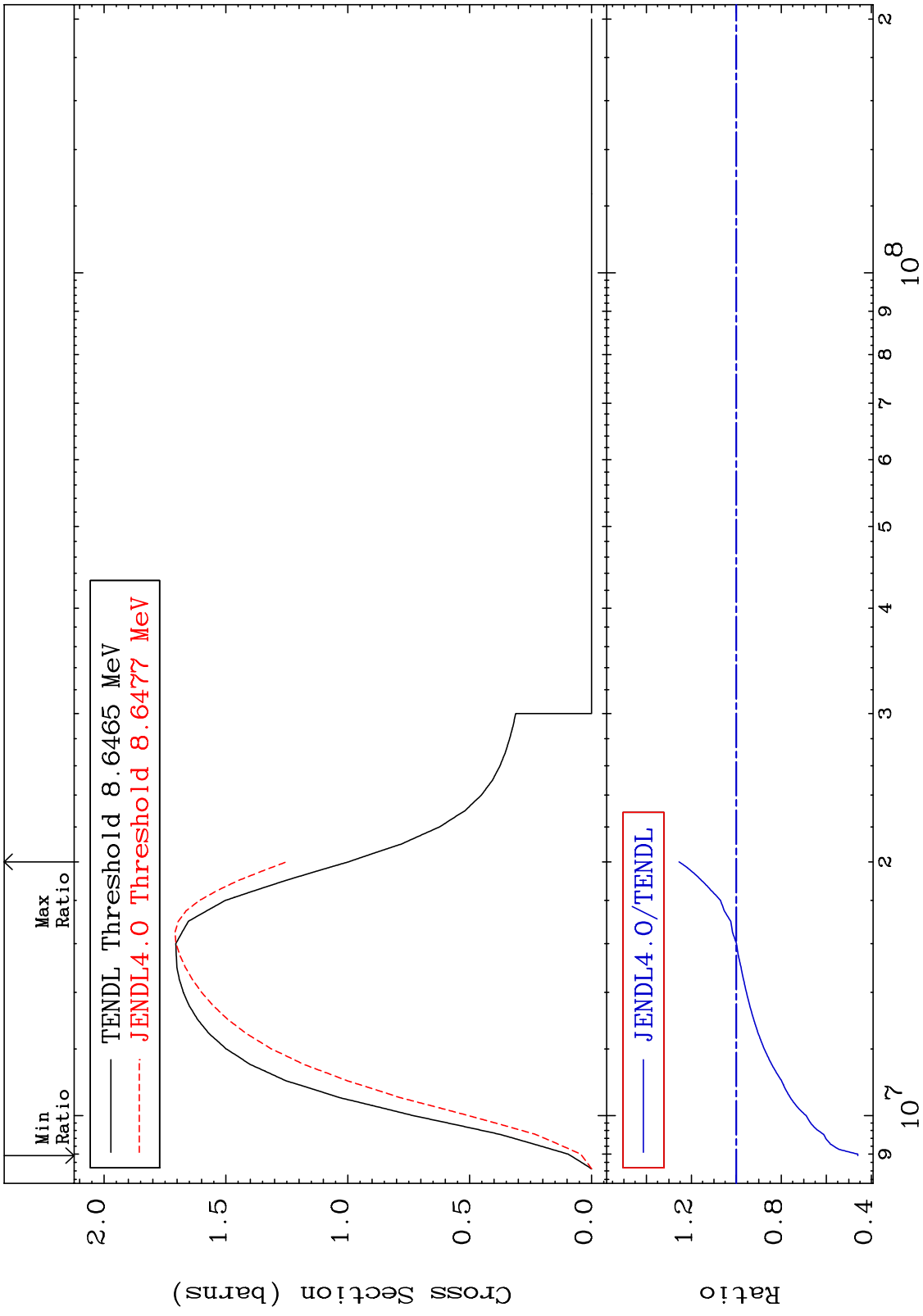


64-Gd-152

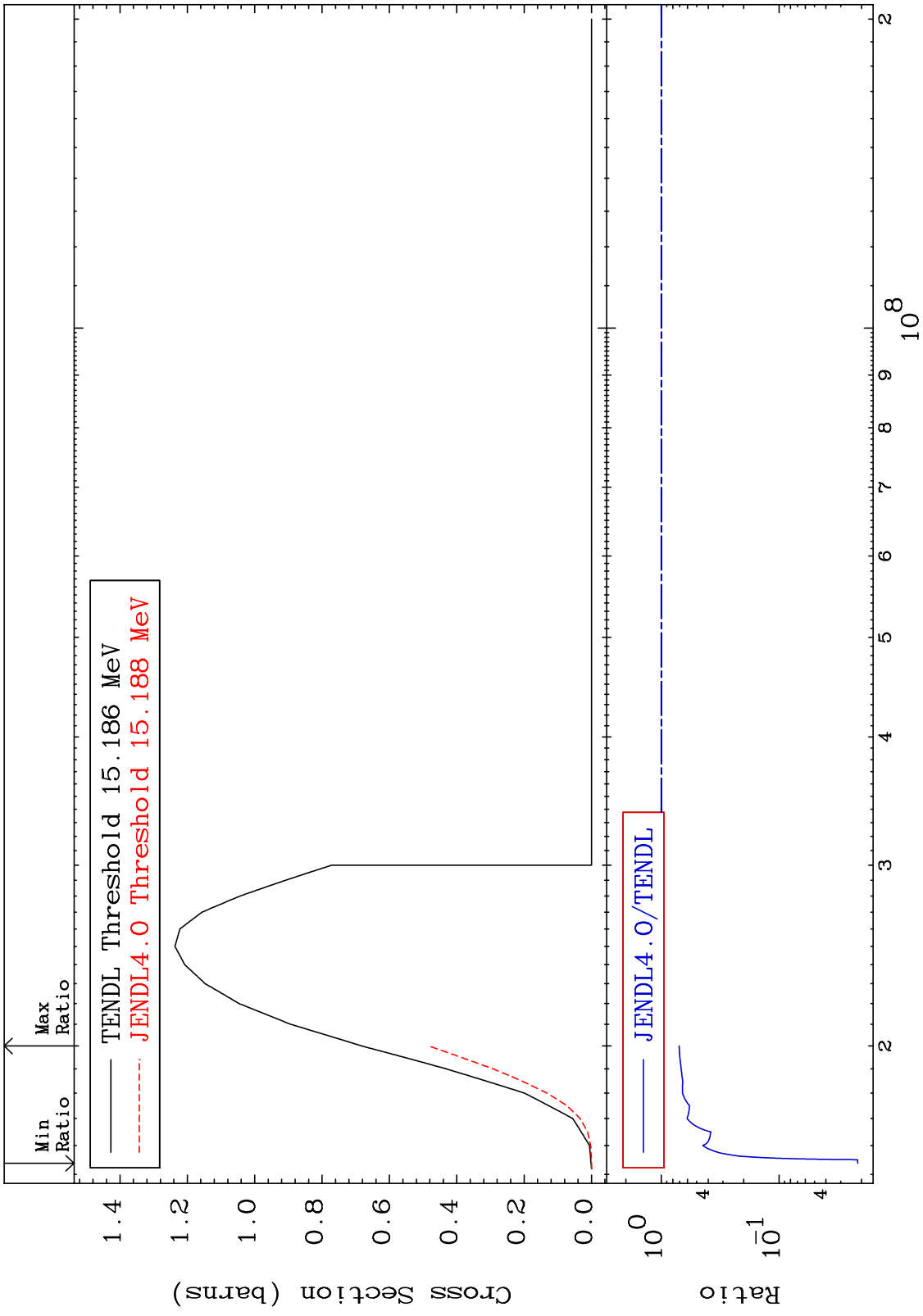
Incident Energy (eV)

3

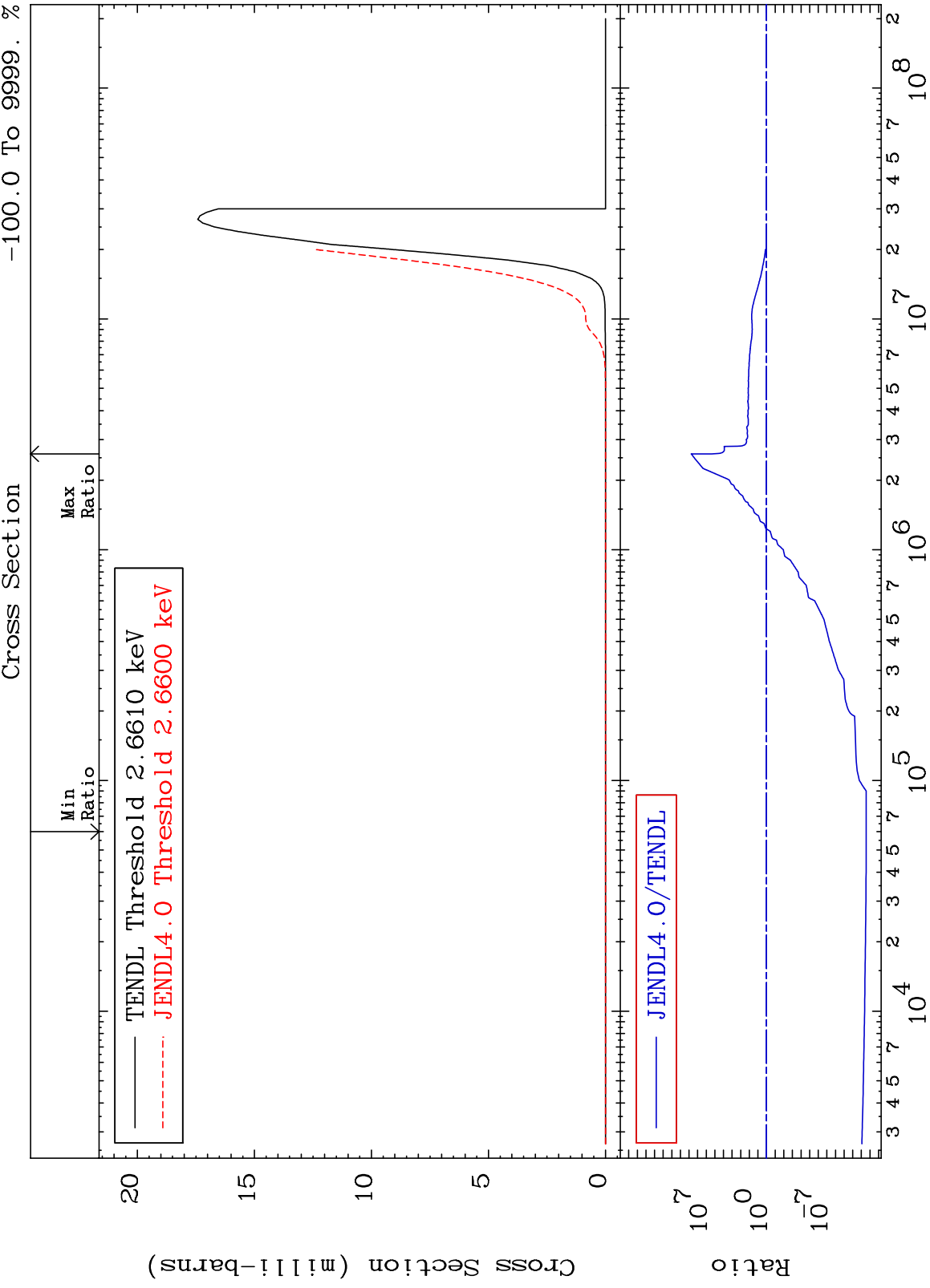
MAT 6425 (n,2n) Cross Section 64-Gd-152 -54.01 To 25.47 %



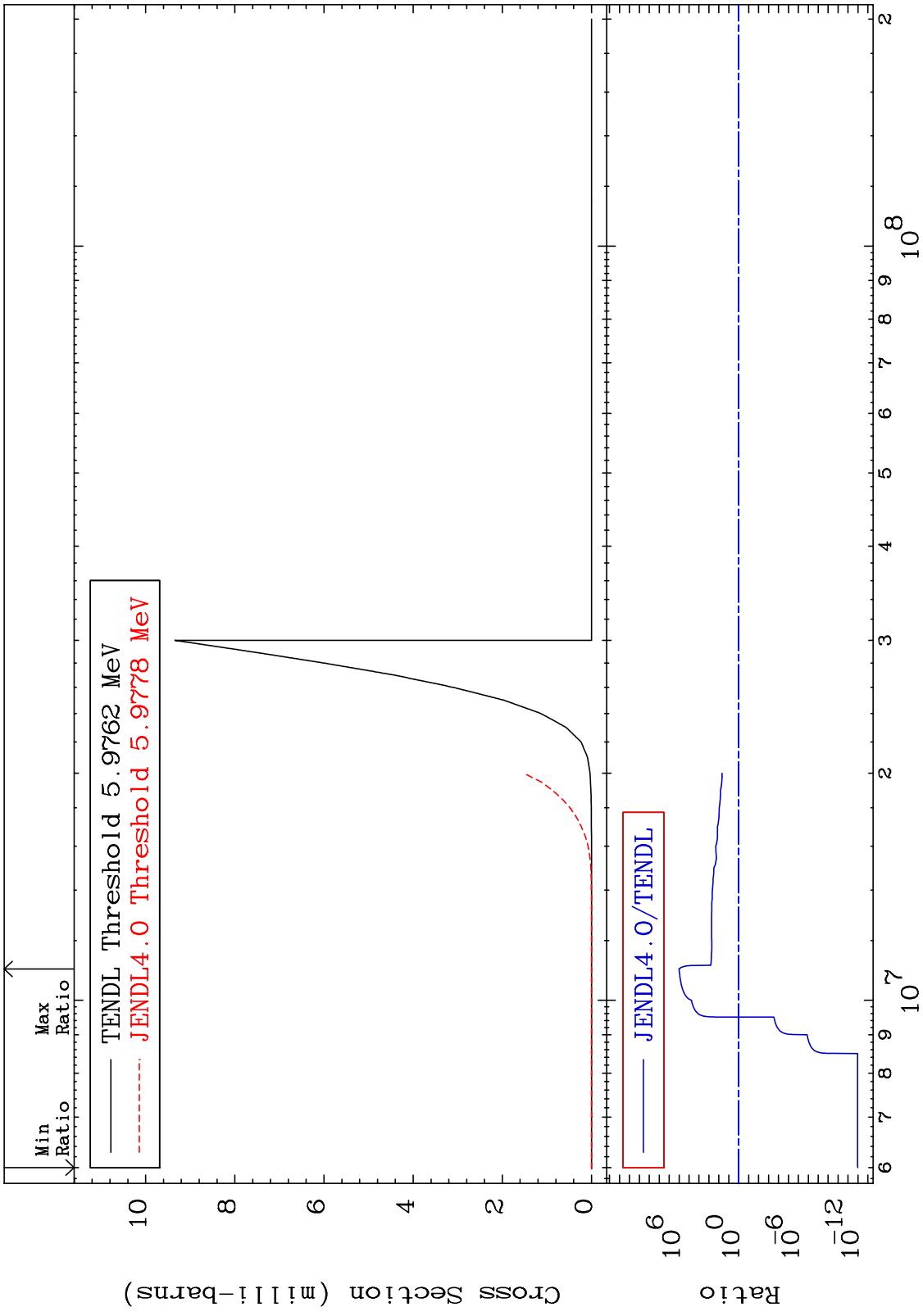
64-Gd-152 Incident Energy (eV) 4



MAT 6425 $(n, n') \alpha$ 64-Gd-152 -100.0 To 9999. %

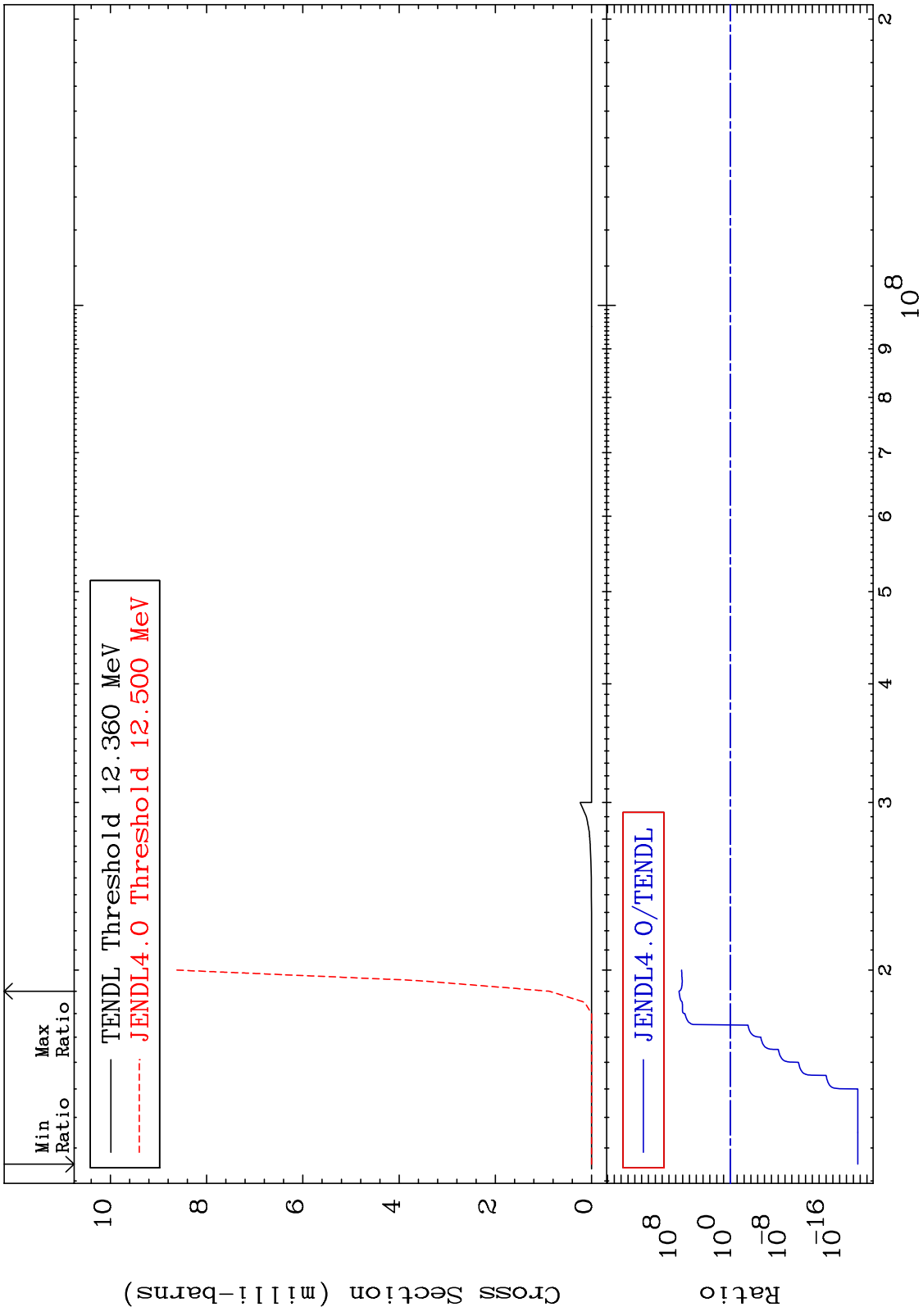


MAT 6425 $(n, 2n) \alpha$ 64-Gd-152
 Cross Section -100.0 To 9999. %

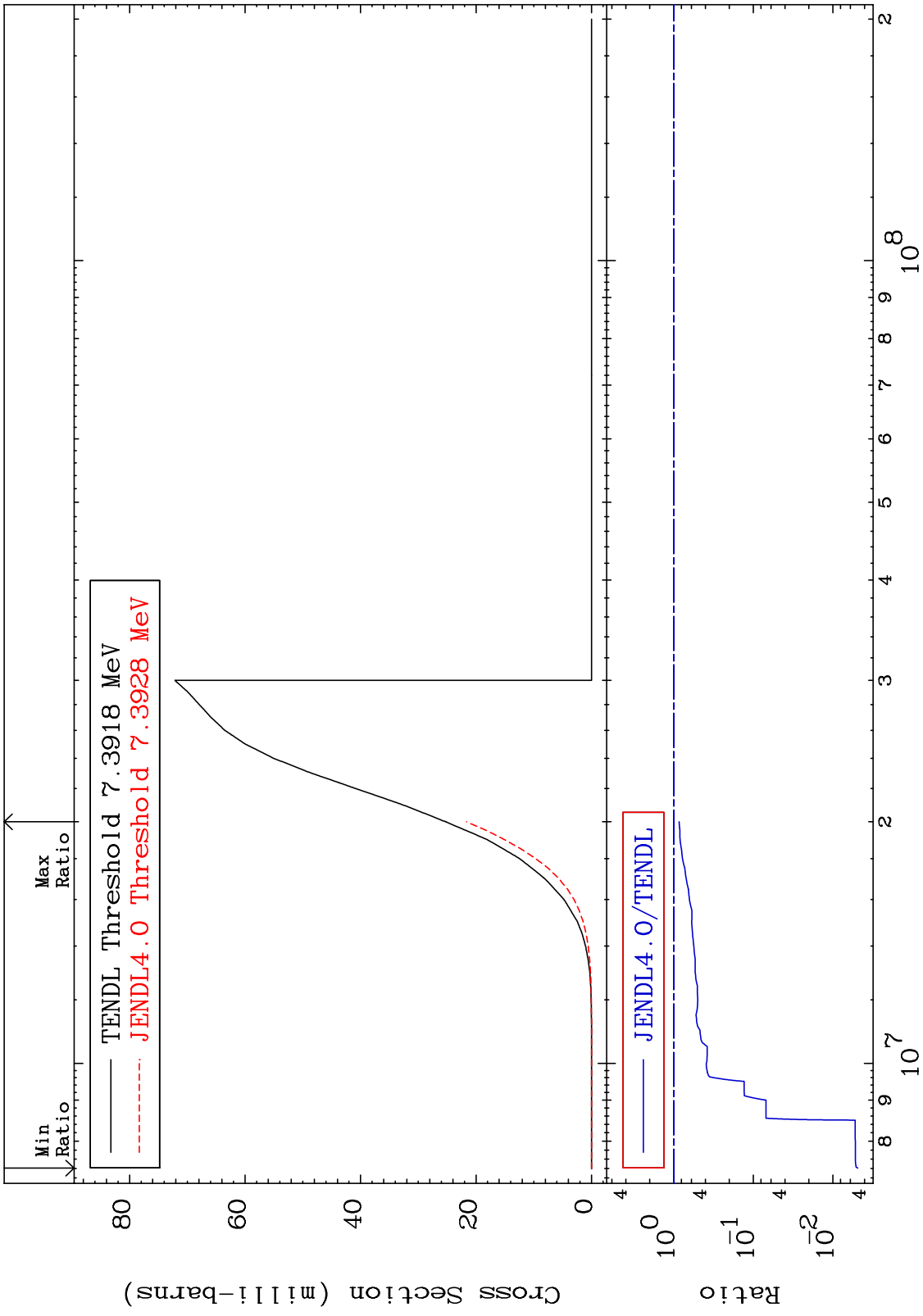


7 64-Gd-152

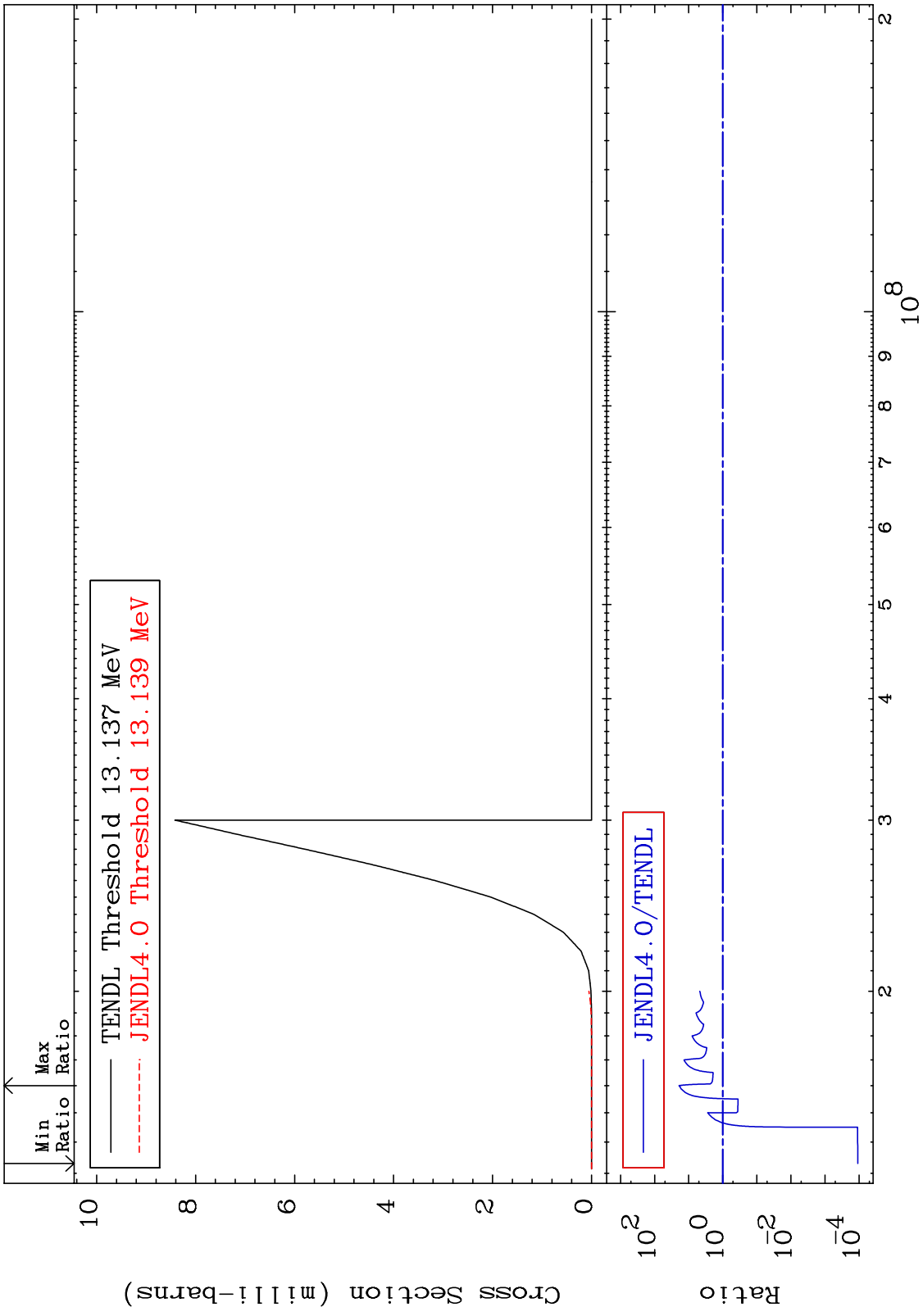
MAT 6425 $(n, 3n) \alpha$ 64-Gd-152
 Cross Section -100.0 To 9999. %



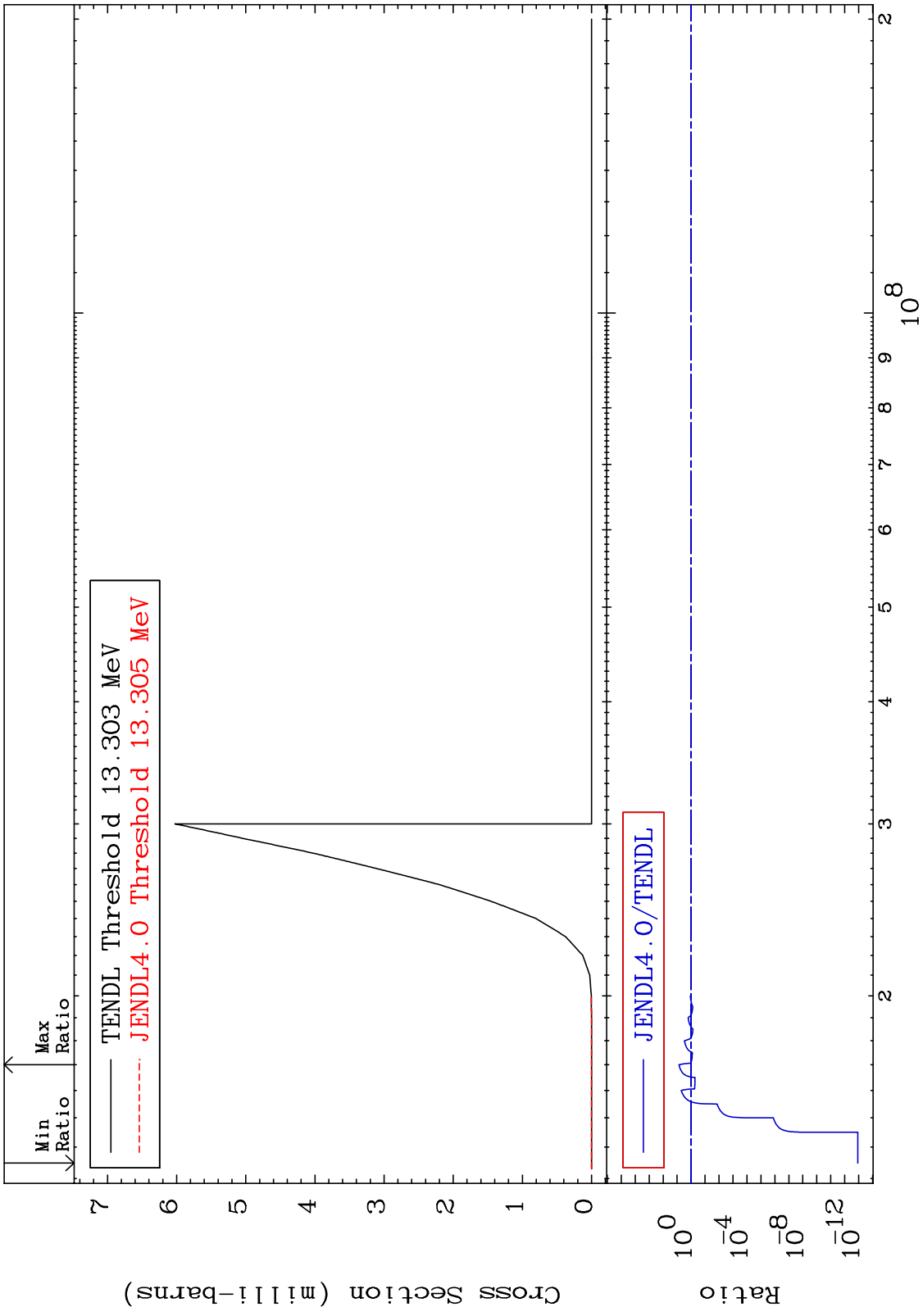
MAT 6425 (n, n') p 64-Gd-152
 Cross Section -99.52 To -14.27%



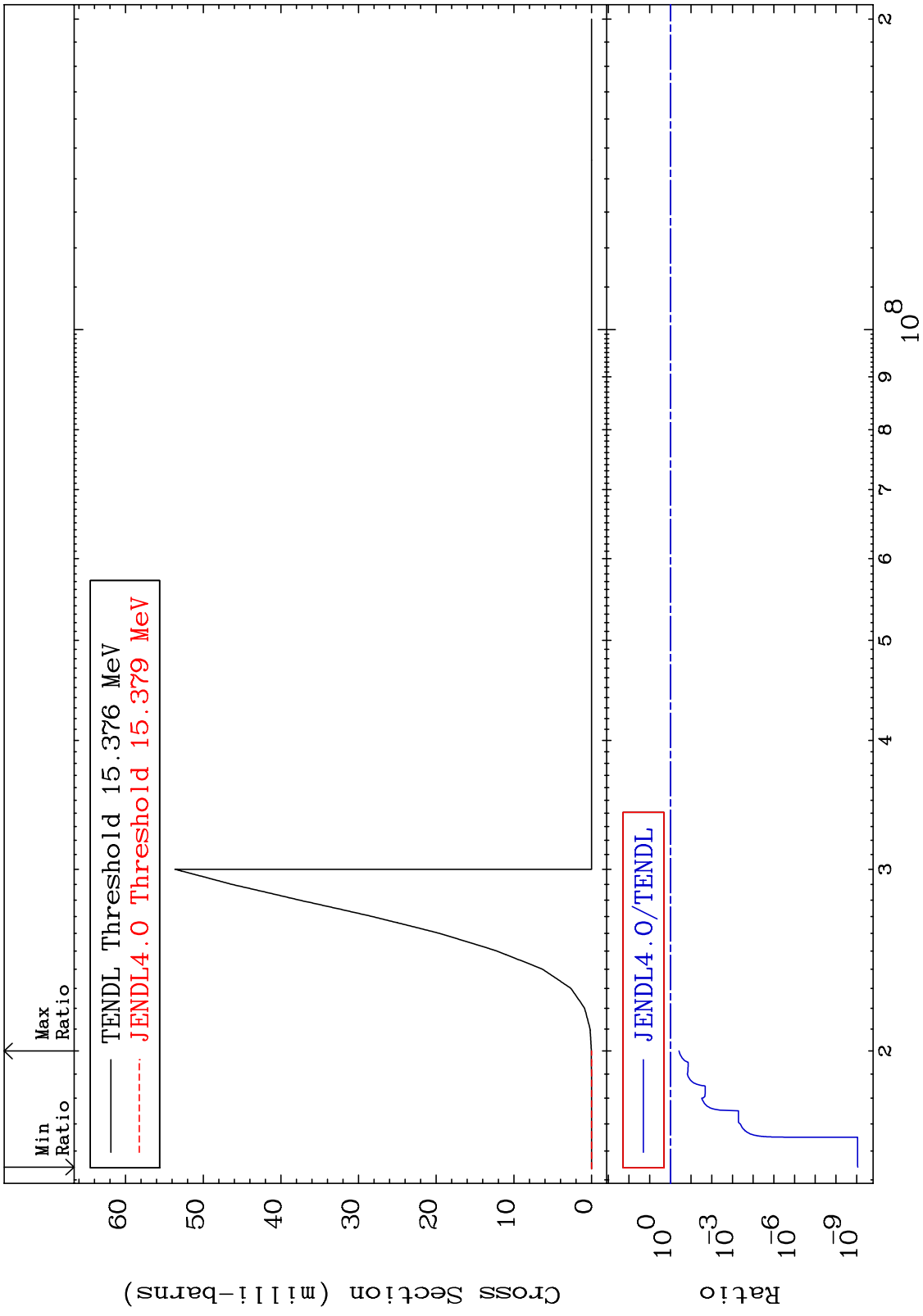
MAT 6425 (n,n') d 64-Gd-152
 Cross Section -99.99 To 1820. %



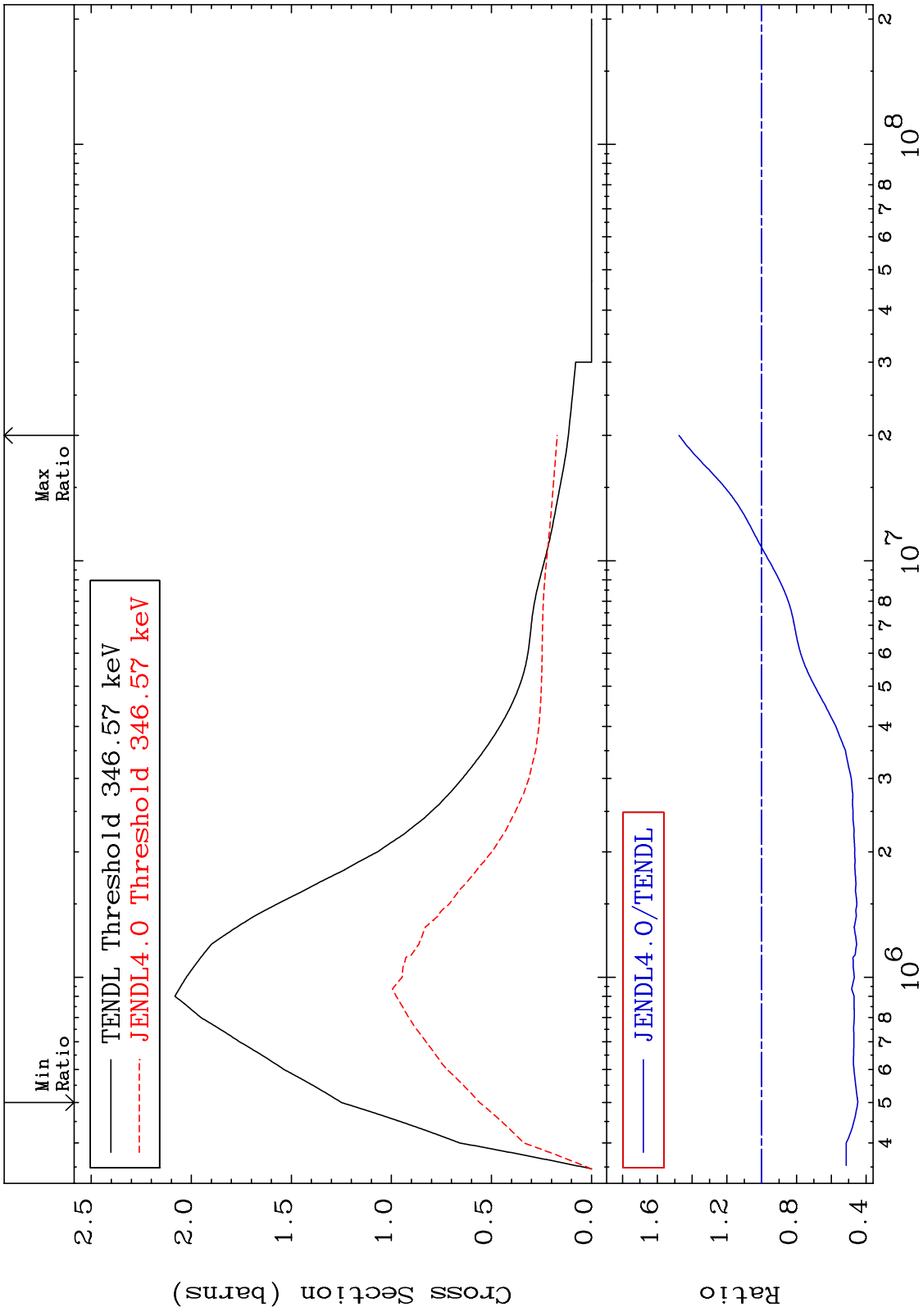
MAT 6425 (n,n') t 64-Gd-152
 Cross Section -100.0 To 626.9 %



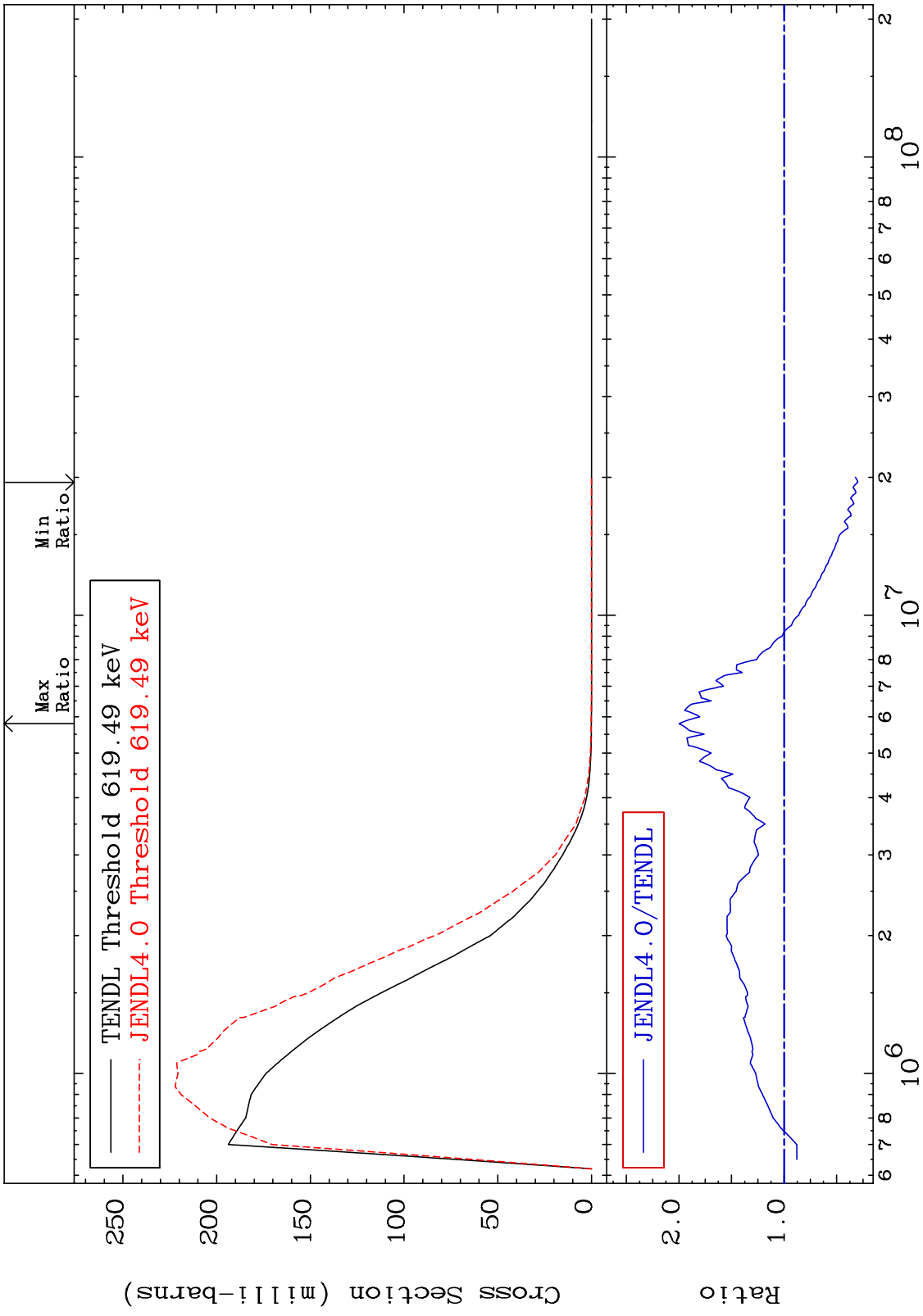
MAT 6425 (n,2n) p 64-Gd-152
 Cross Section -100.0 To -61.94%



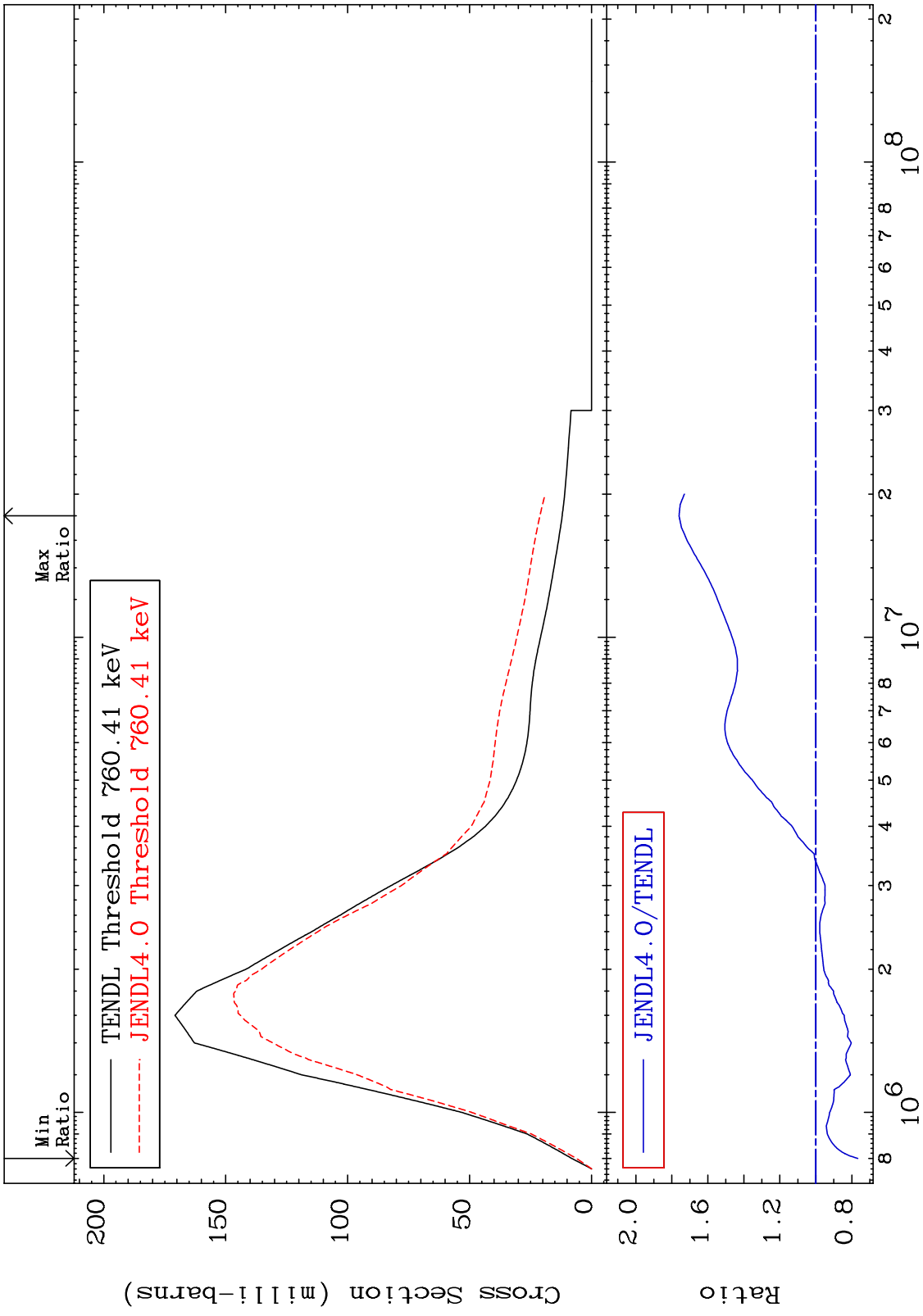
MAT 6425 MT= 51 (n,n') Level Cross Section 64-Gd-152
 -55.27 To 47.51 %



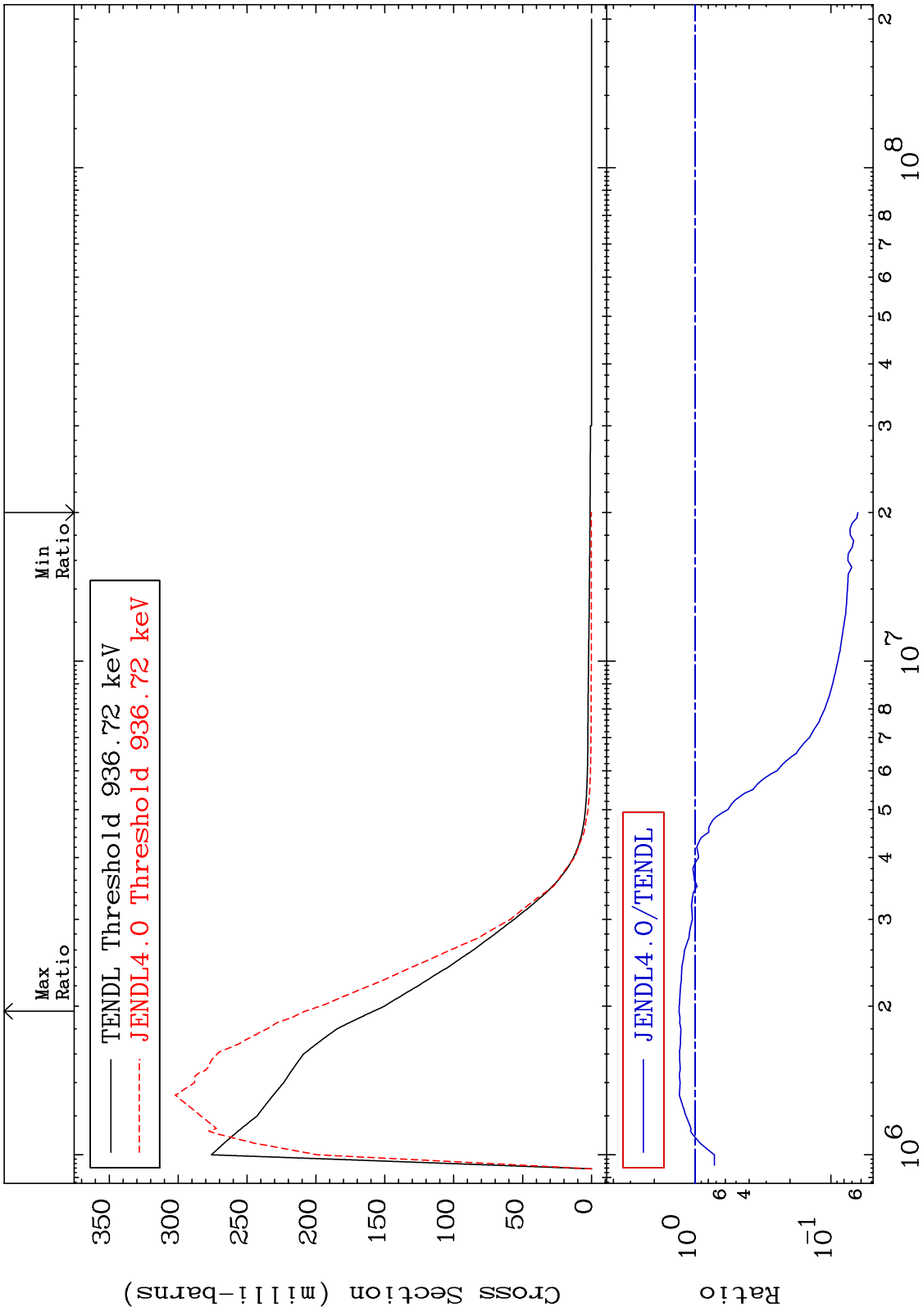
MAT 6425 MT= 52 (n,n') Level Cross Section 64-Gd-152
 -70.11 To 99.92 %



MAT 6425 MT= 53 (n, n') Level Cross Section 64-Gd-152
-23.36 To 76.00 %

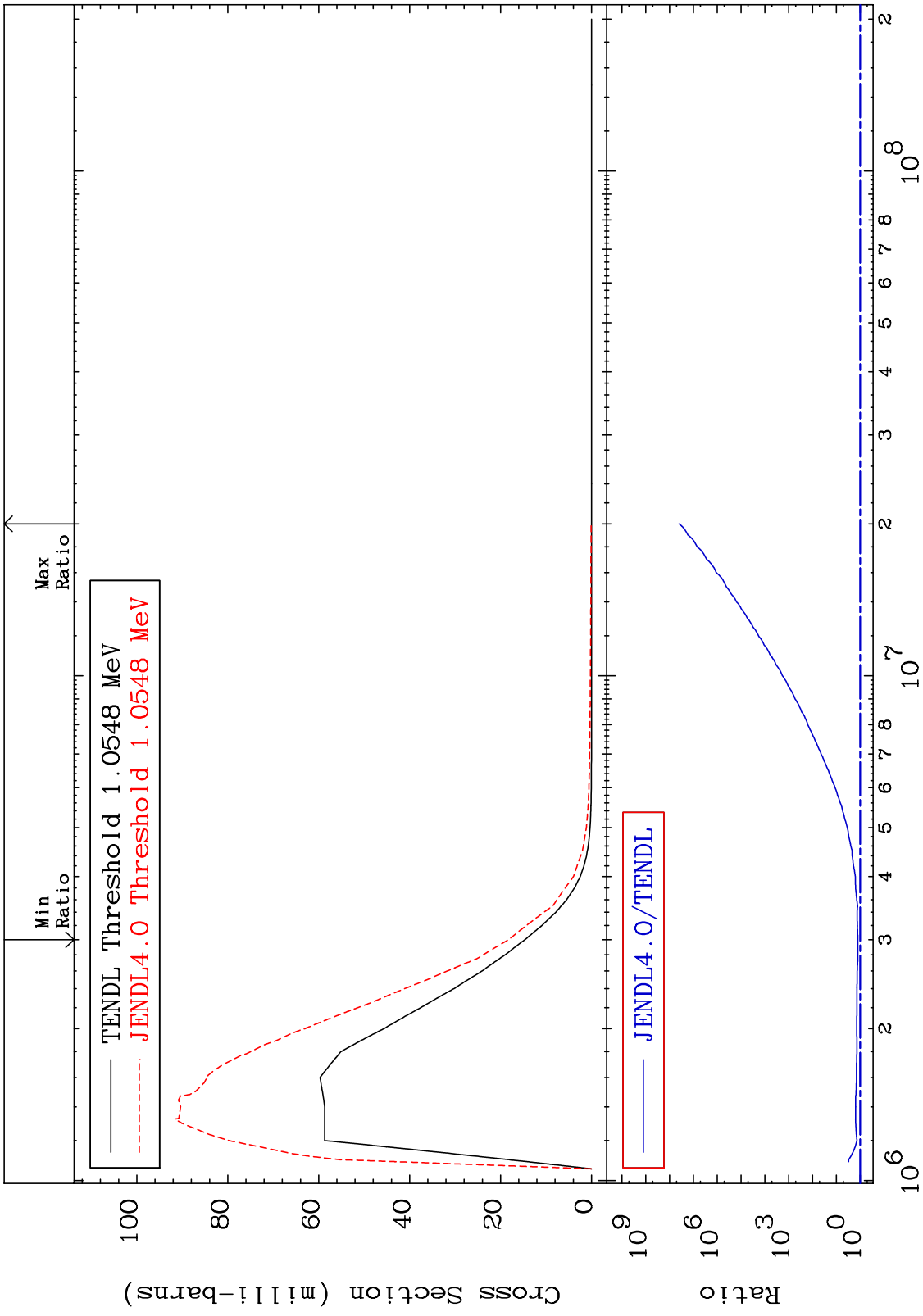


MAT 6425 MT= 54 (n,n') Level Cross Section 64-Gd-152 -93.67 To 31.37 %

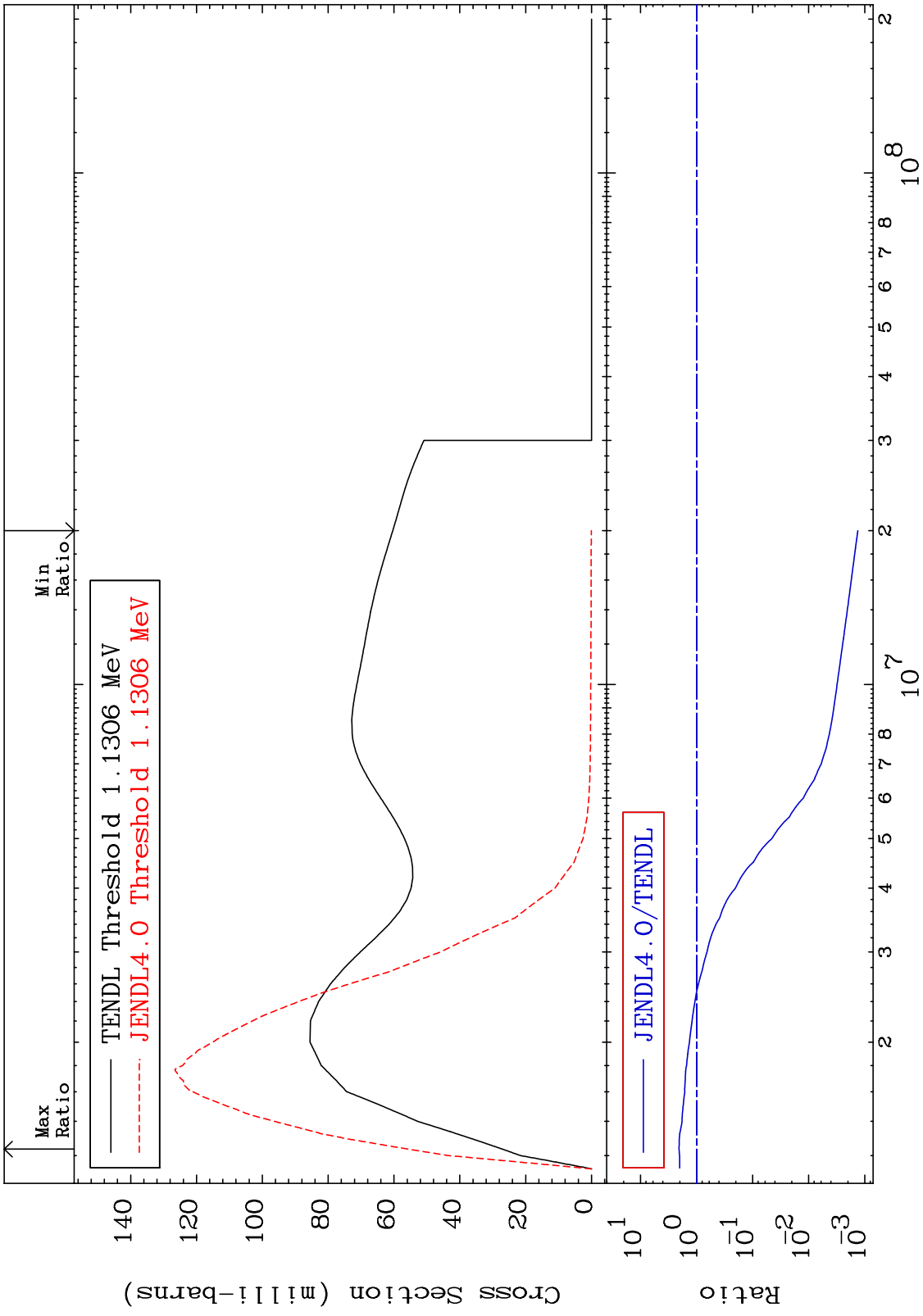


16 Incident Energy (eV) 64-Gd-152

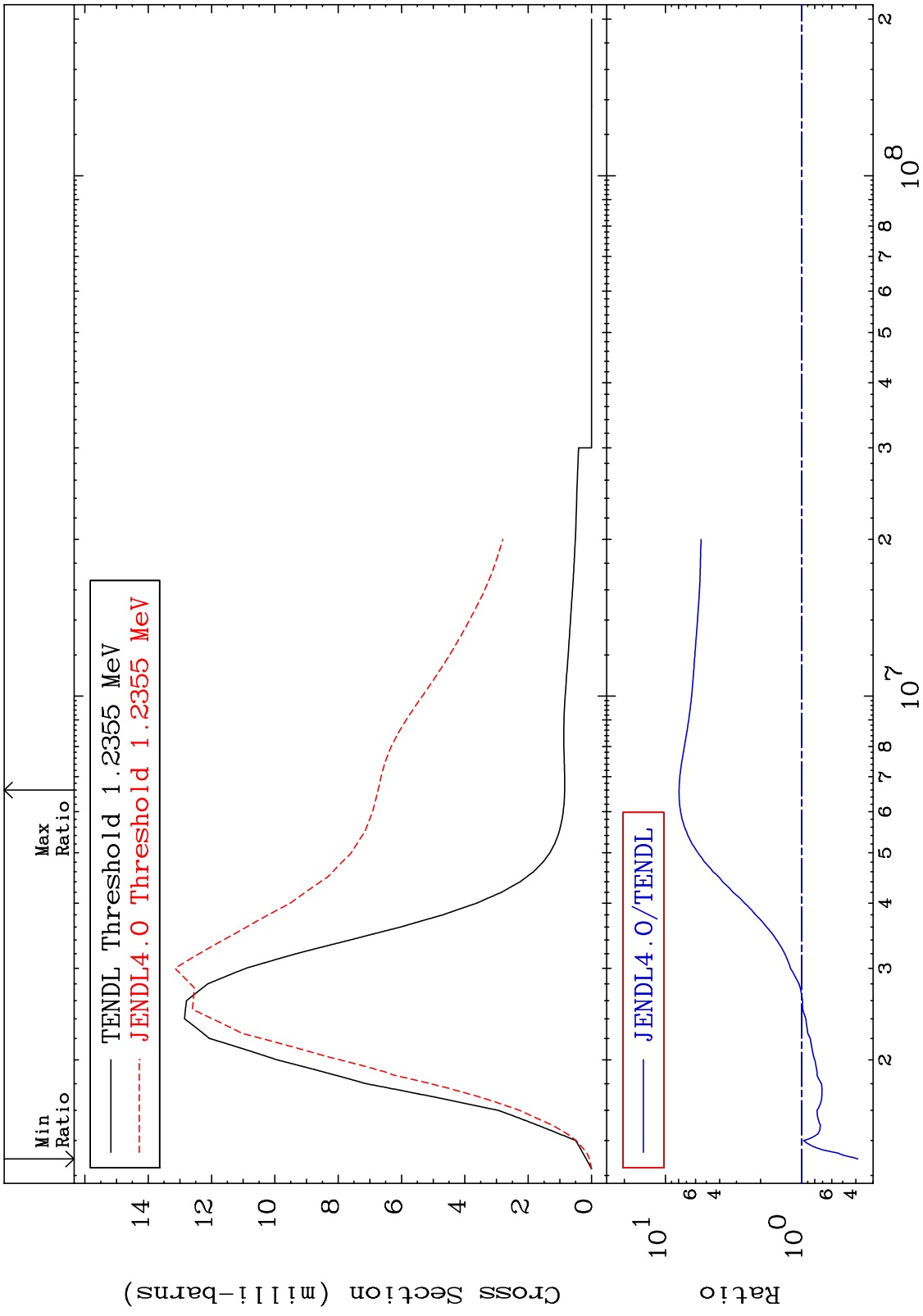
MAT 6425 MT= 55 (n,n') Level Cross Section 24.44 To 9999. % 64-Gd-152



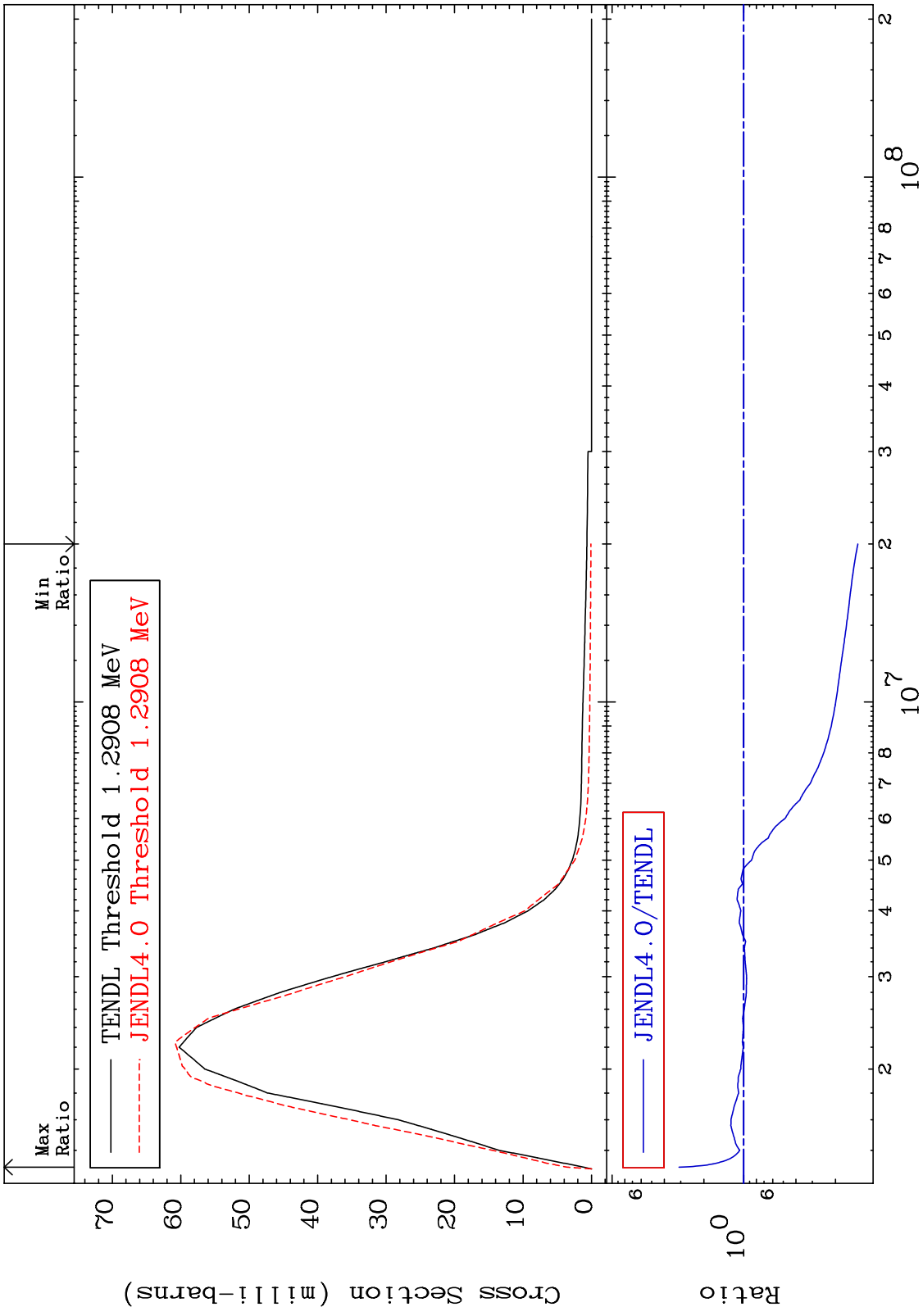
MAT 6425 MT= 57 (n,n') Level Cross Section 64-Gd-152 -99.87 To 106.0 %



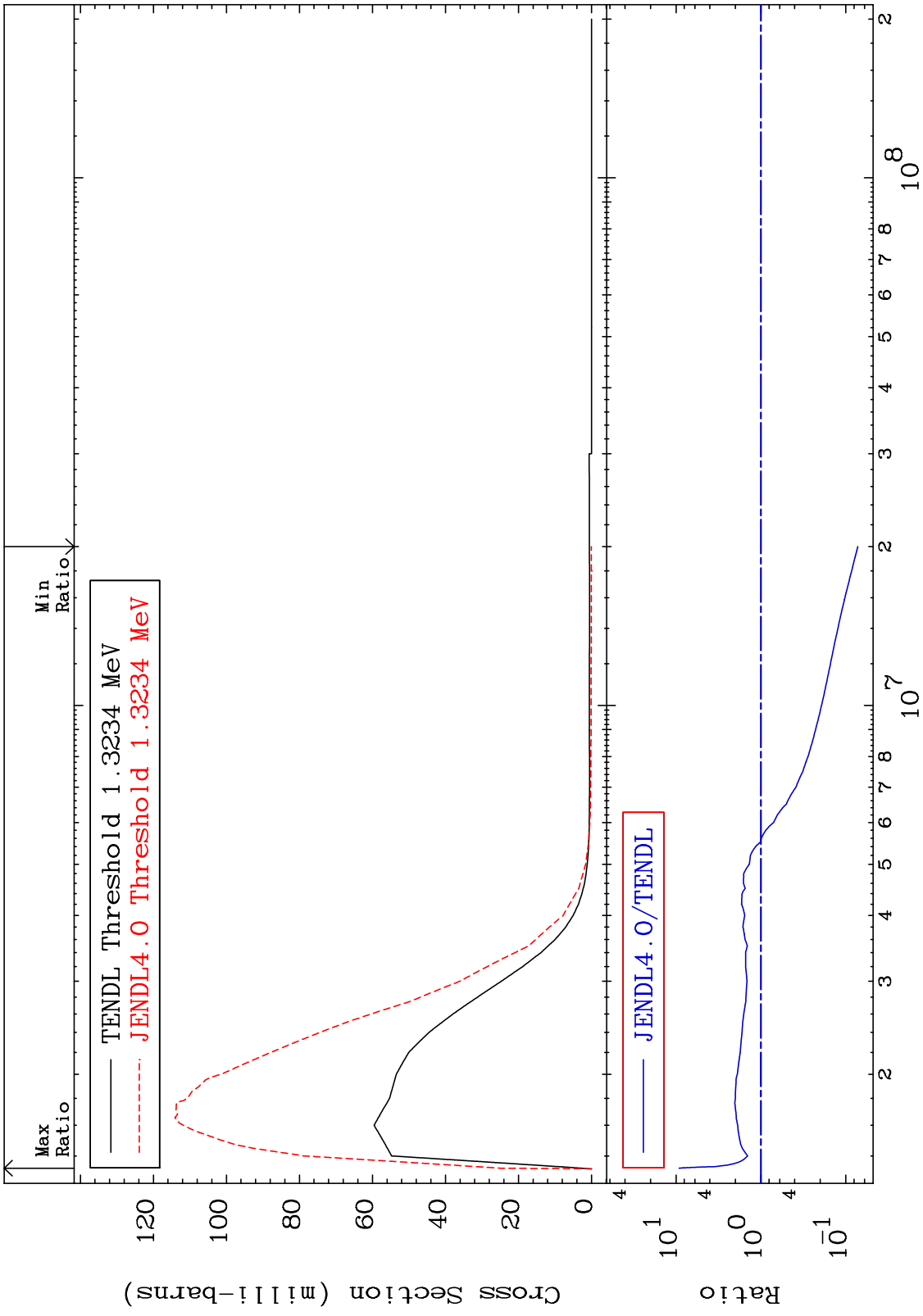
MAT 6425 MT= 58 (n,n') Level Cross Section 64-Gd-152
 -61.35 To 693.1 %



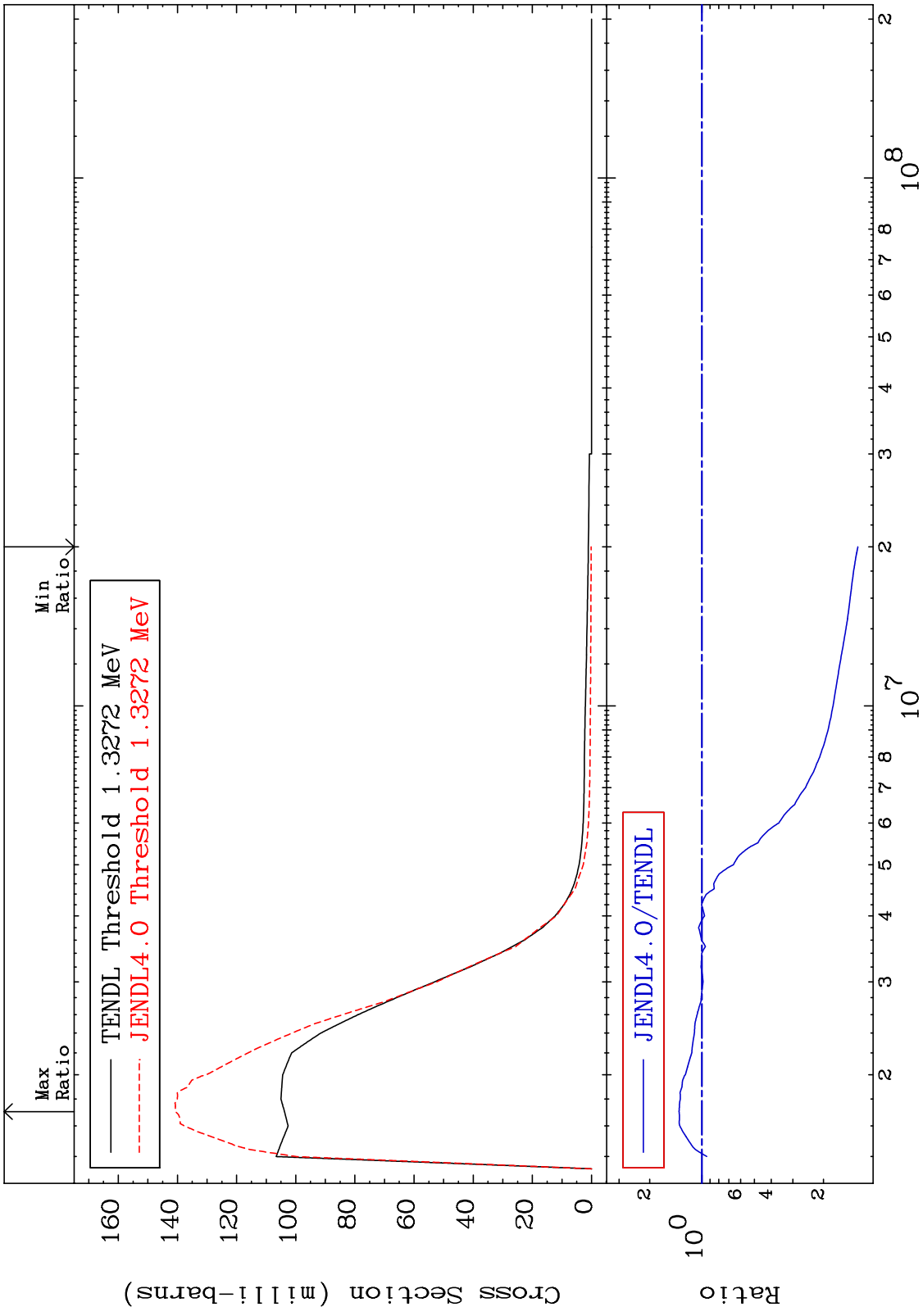
MAT 6425 MT= 59 (n,n') Level Cross Section -86.46 To 209.4 % 64-Gd-152



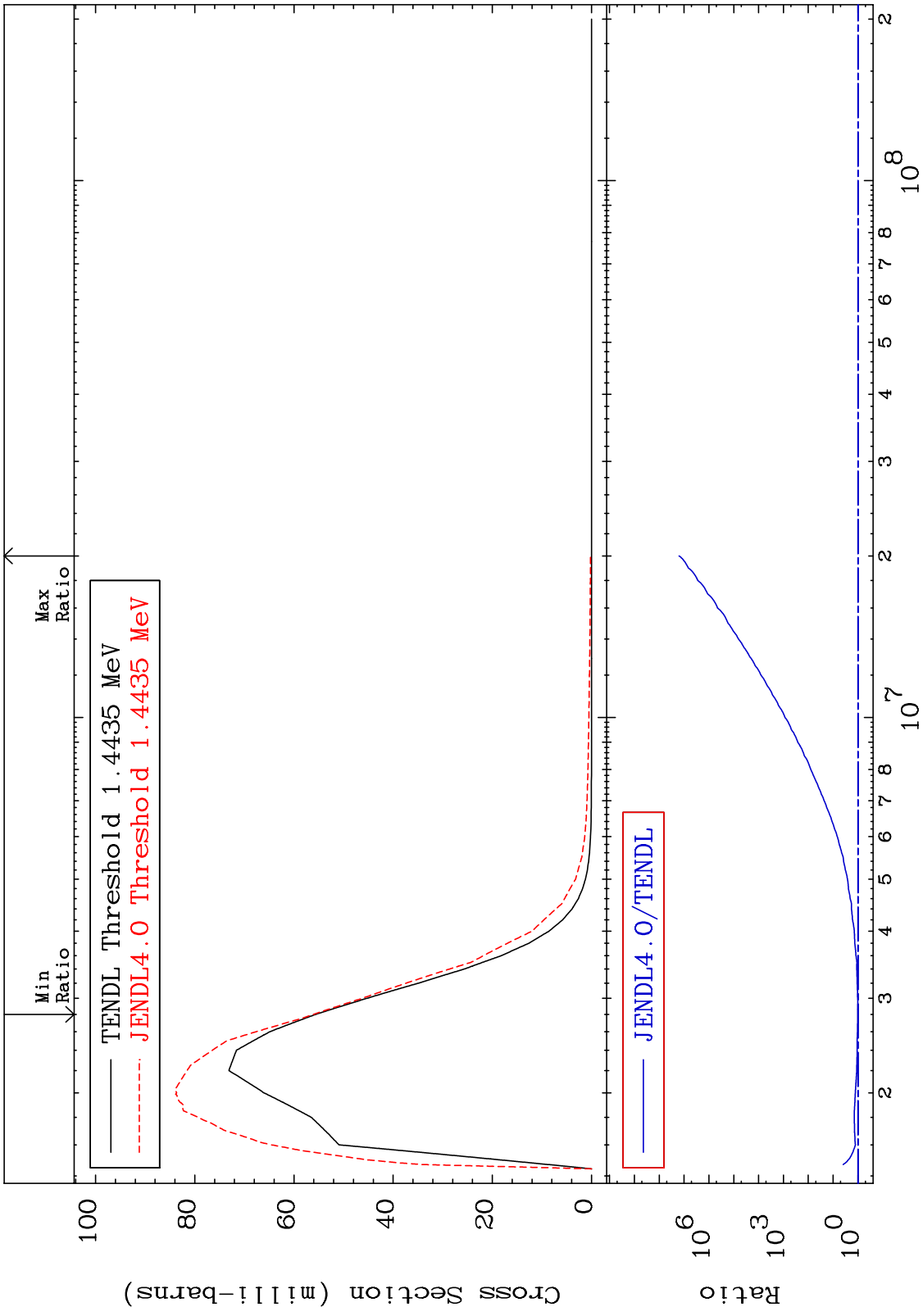
MAT 6425 MT= 60 (n,n') Level Cross Section 64-Gd-152 -92.79 To 822.0 %



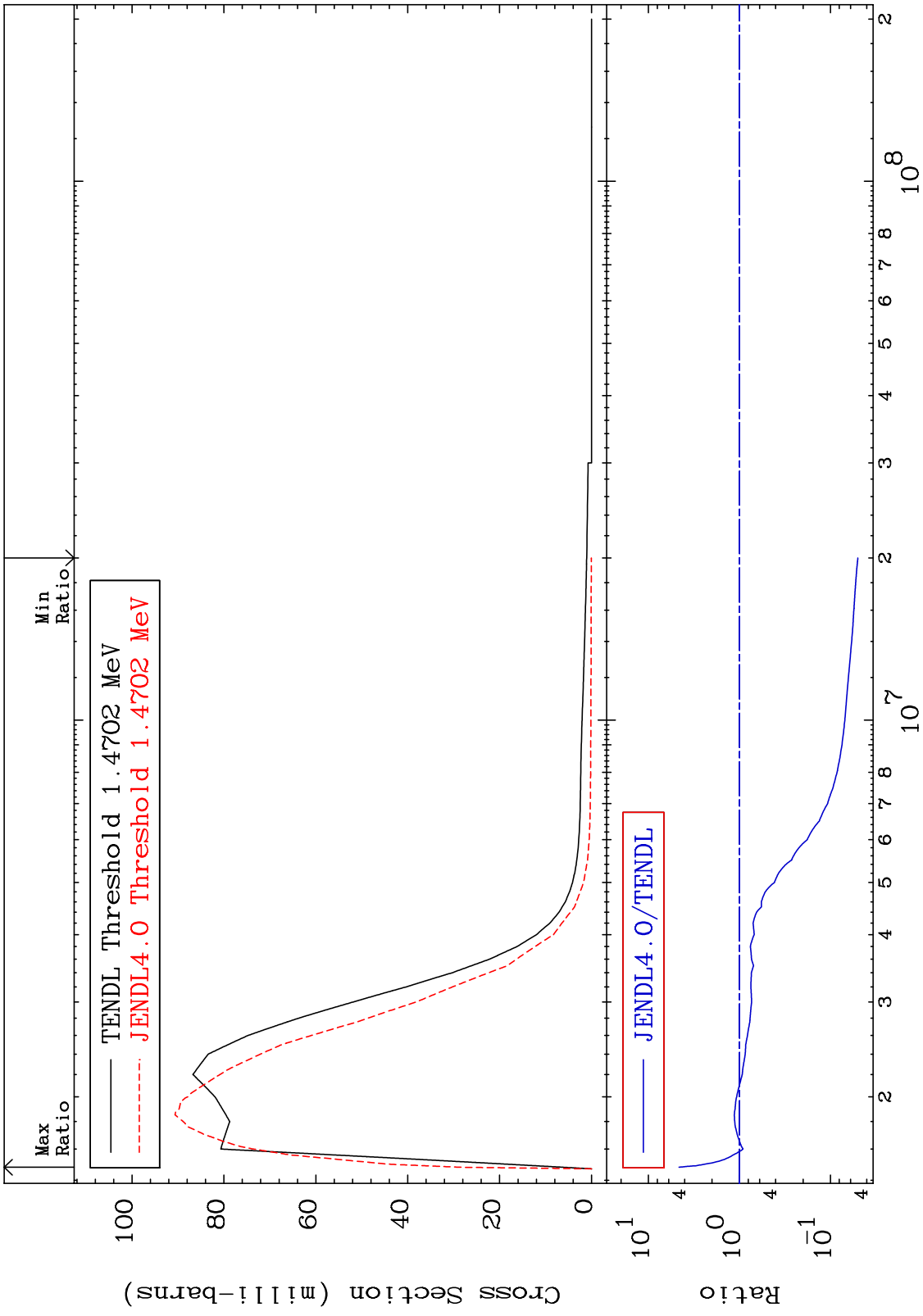
MAT 6425 MT= 61 (n,n') Level Cross Section 64-Gd-152 -87.32 To 35.51 %



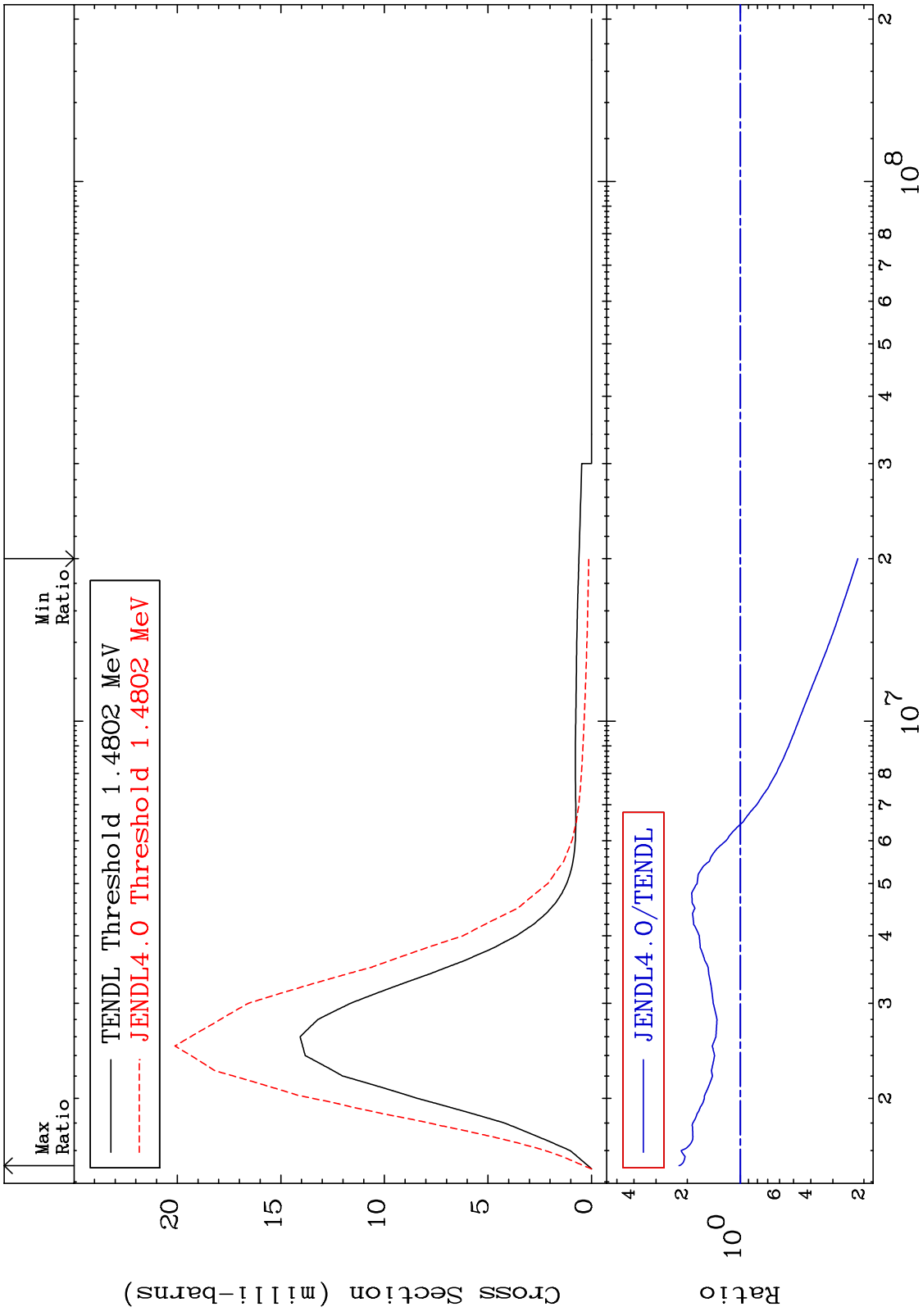
MAT 6425 MT= 62 (n,n') Level Cross Section 64-Gd-152 To 9999. %
 0.895



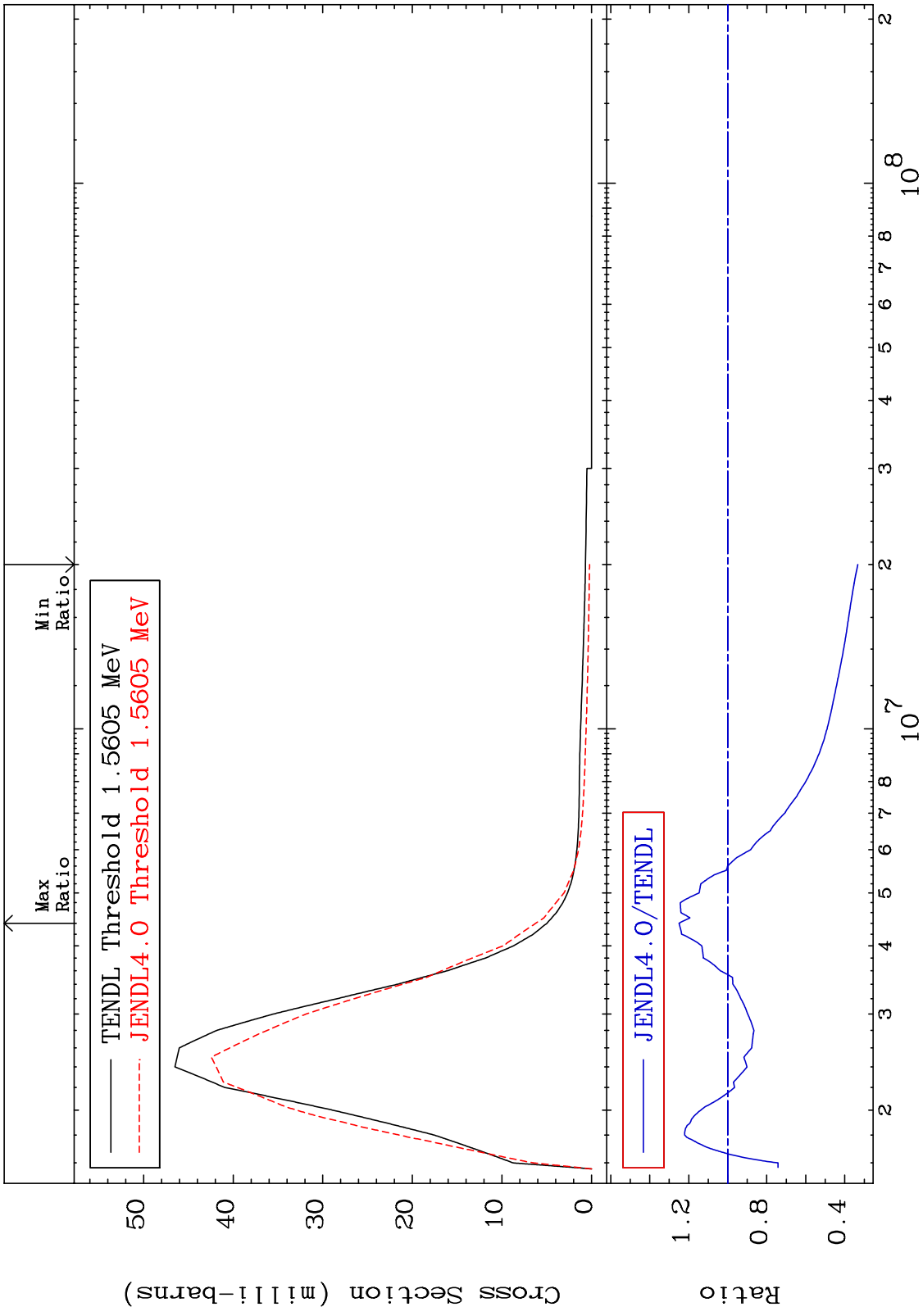
MAT 6425 MT= 63 (n,n') Level Cross Section 64-Gd-152 -95.00 To 361.0 %



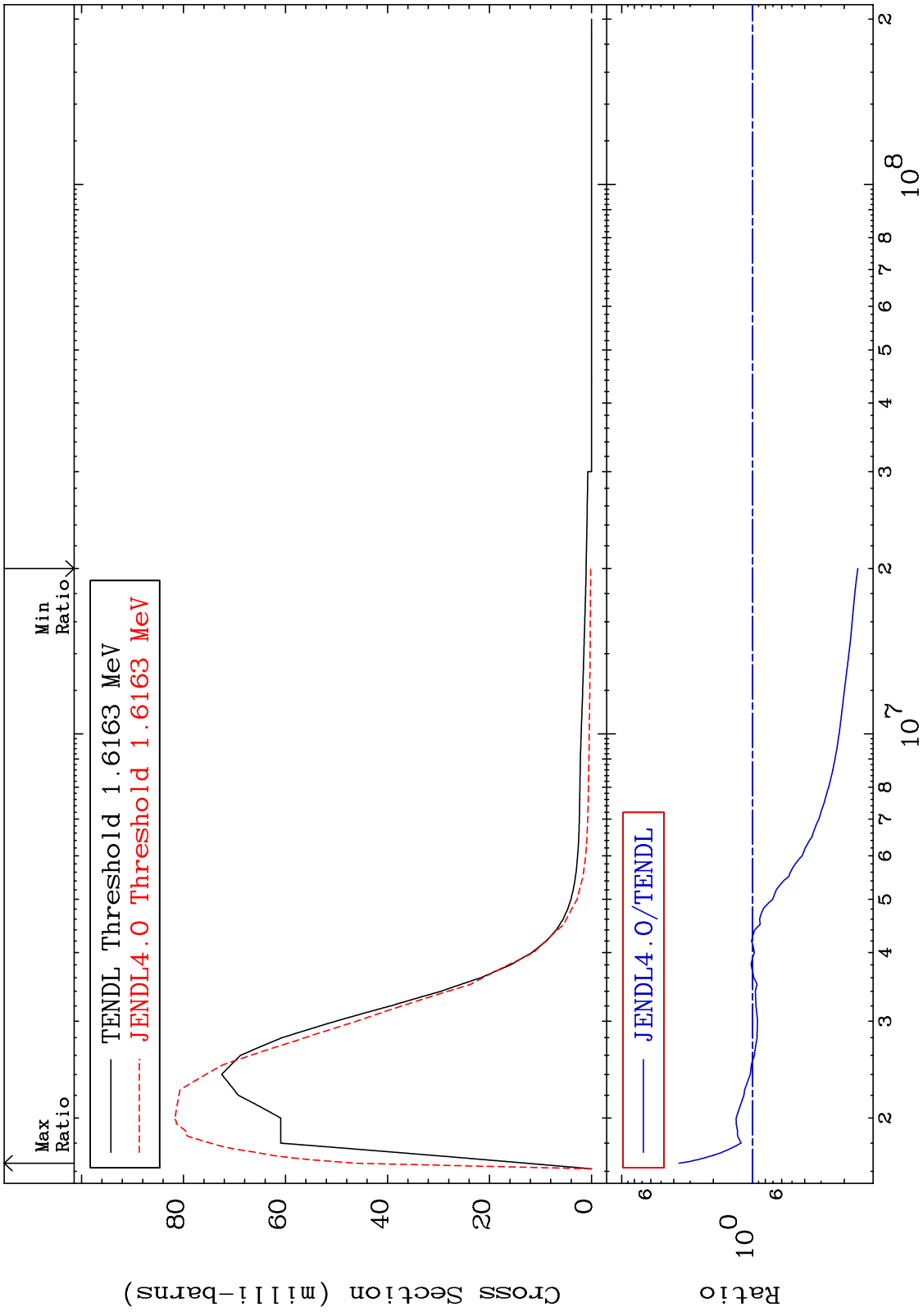
MAT 6425 MT= 64 (n,n') Level Cross Section 64-Gd-152
 -78.35 To 122.3 %



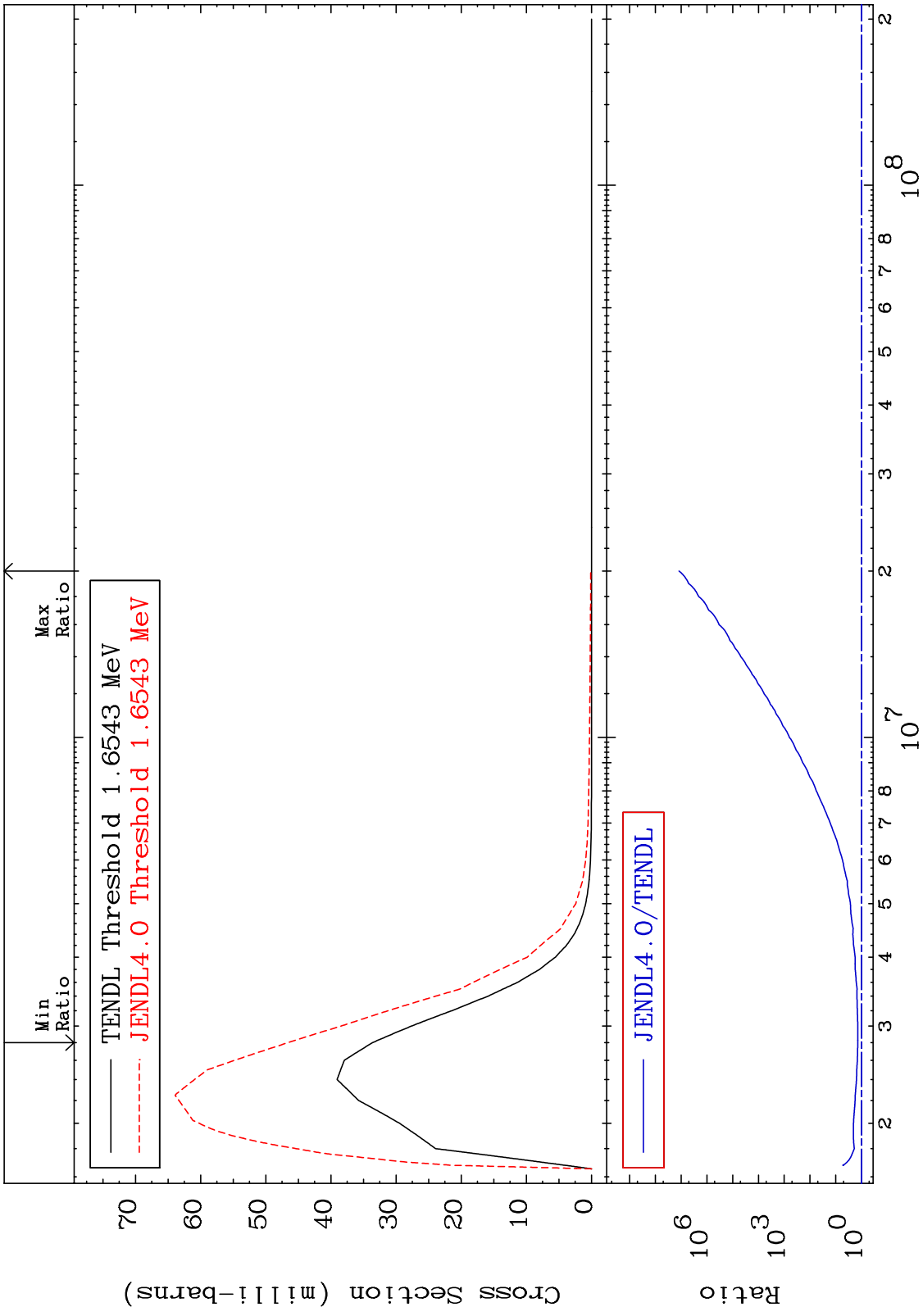
MAT 6425 MT= 65 (n,n') Level Cross Section 64-Gd-152 -66.71 To 24.96 %



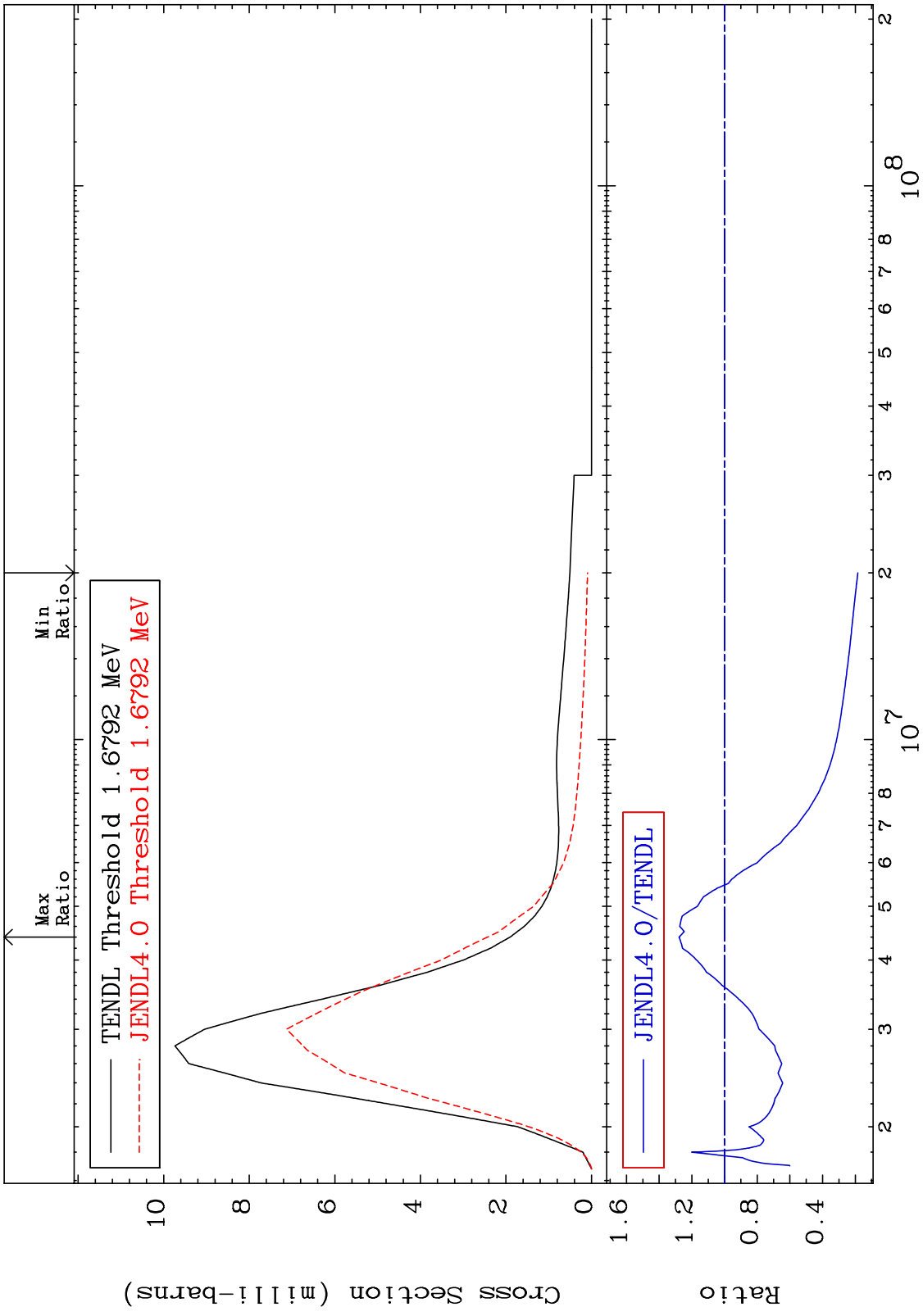
MAT 6425 MT= 66 (n,n') Level Cross Section 64-Gd-152 -84.27 To 265.0 %



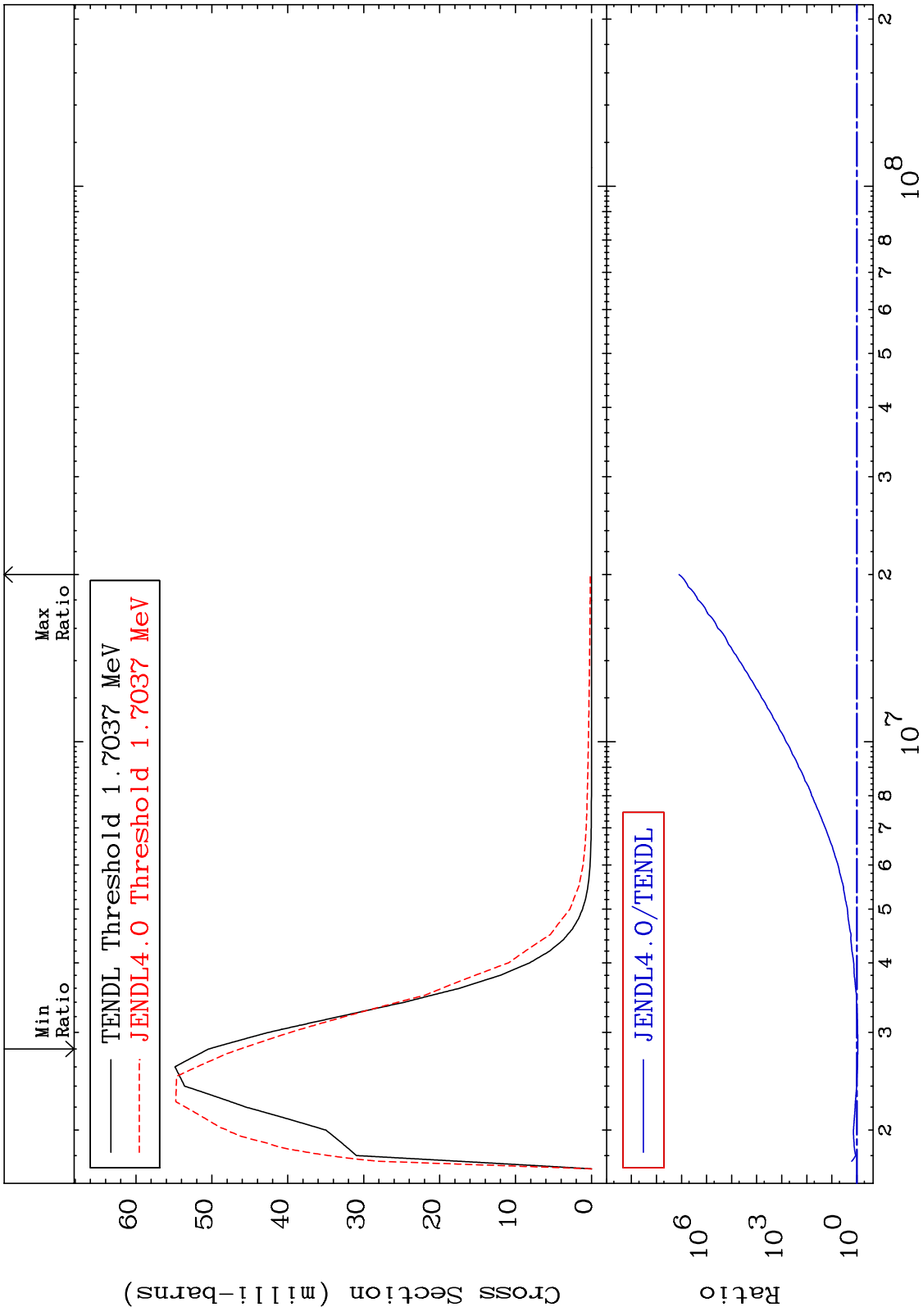
MAT 6425 MT= 67 (n,n') Level Cross Section 64-Gd-152 38.59 To 9999. %



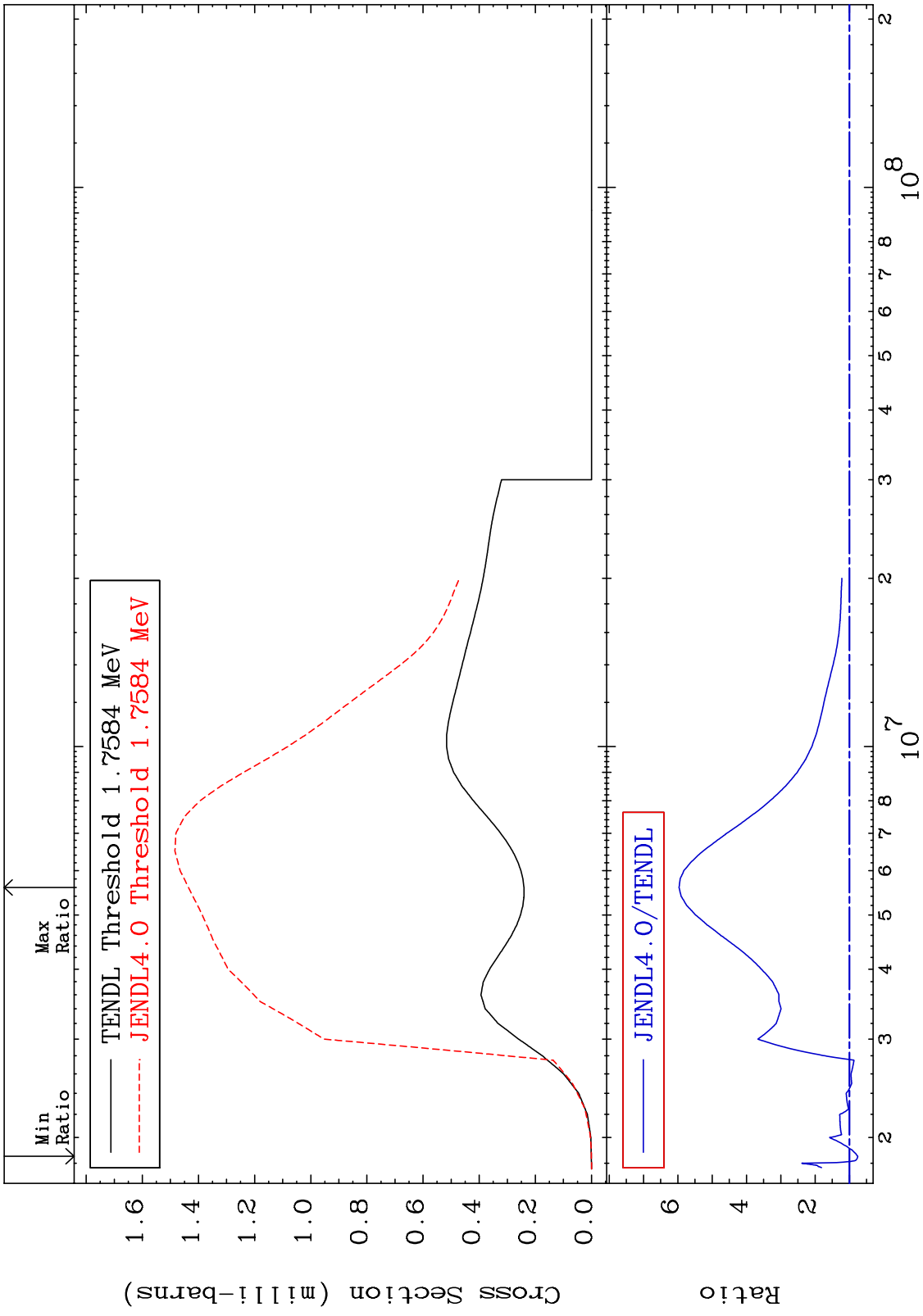
MAT 6425 MT= 68 (n,n') Level Cross Section 64-Gd-152 -81.57 To 27.83 %



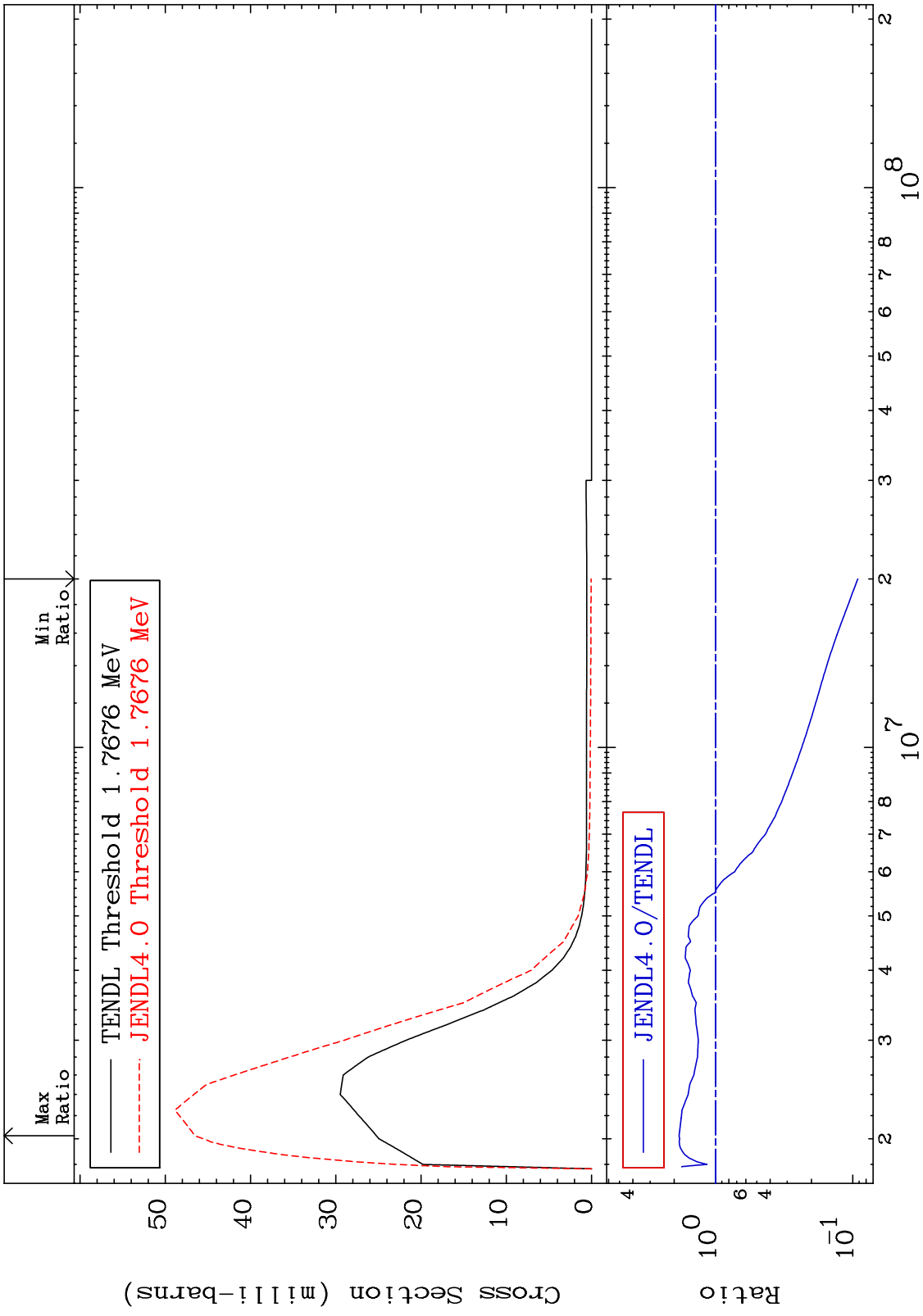
MAT 6425 MT= 69 (n,n') Level Cross Section 64-Gd-152 -8.235 To 9999. %



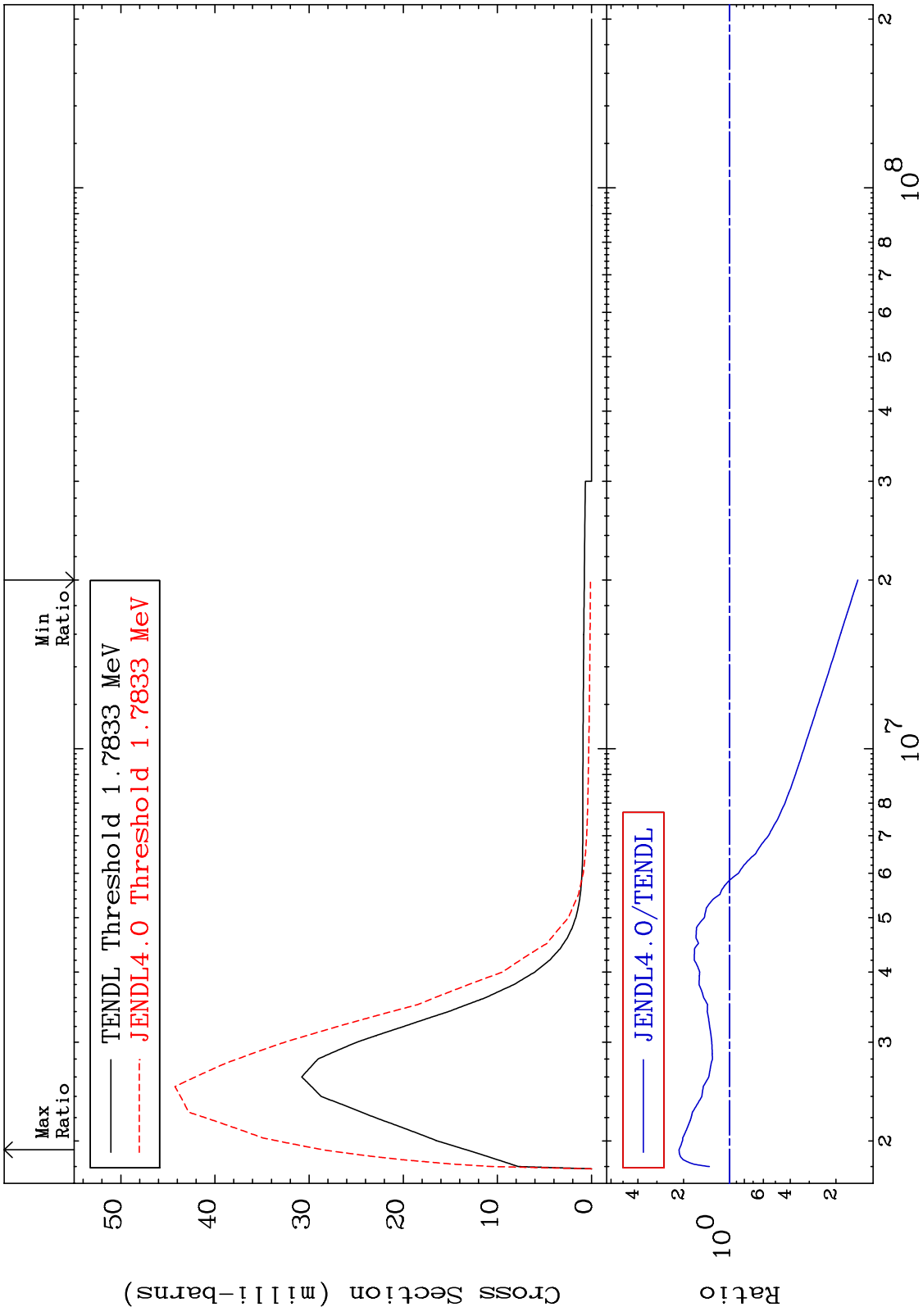
MAT 6425 MT= 70 (n,n') Level Cross Section 64-Gd-152
 -24.46 To 496.5 %



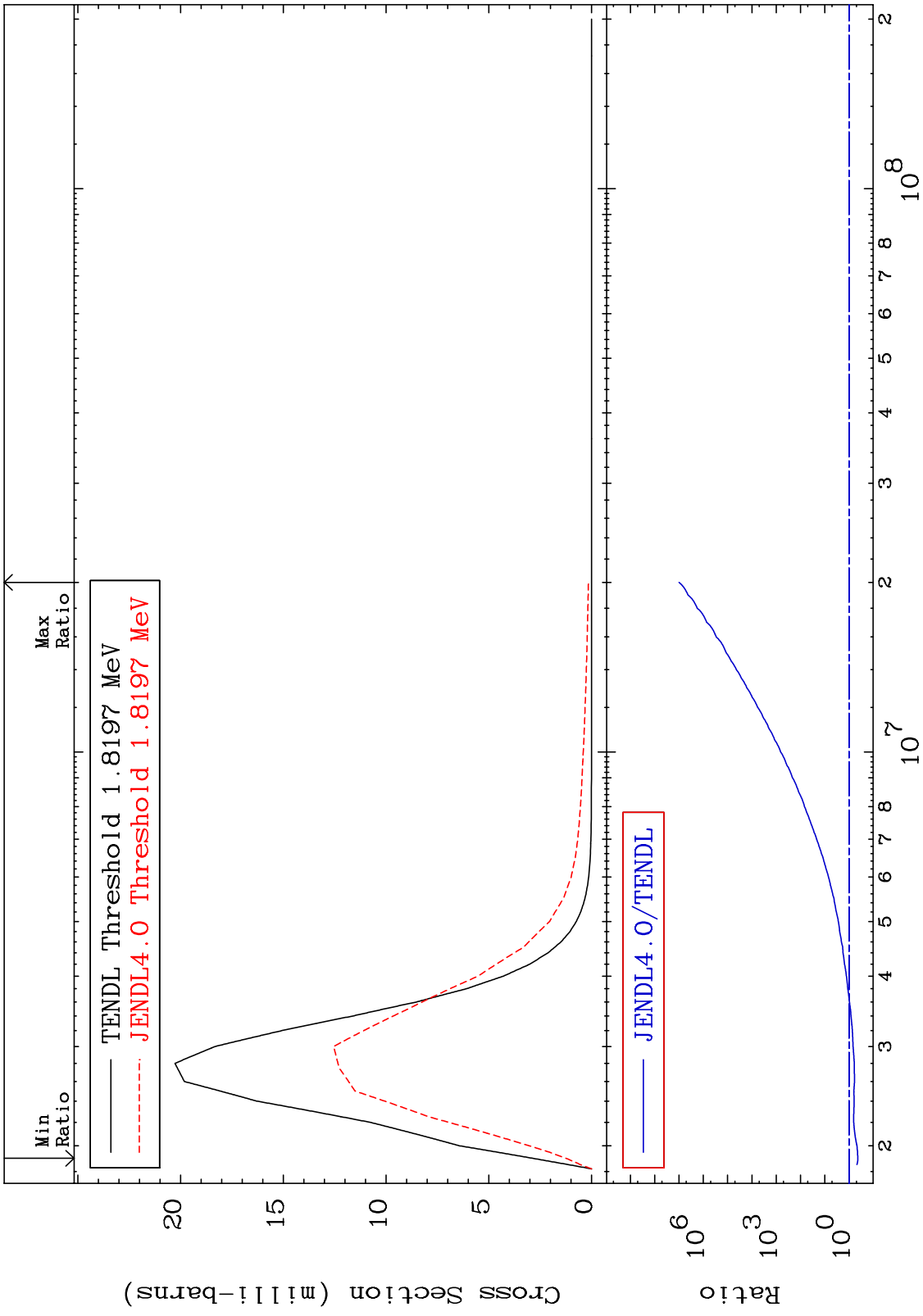
MAT 6425 MT= 71 (n,n') Level Cross Section 64-Gd-152
 -90.81 To 84.34 %



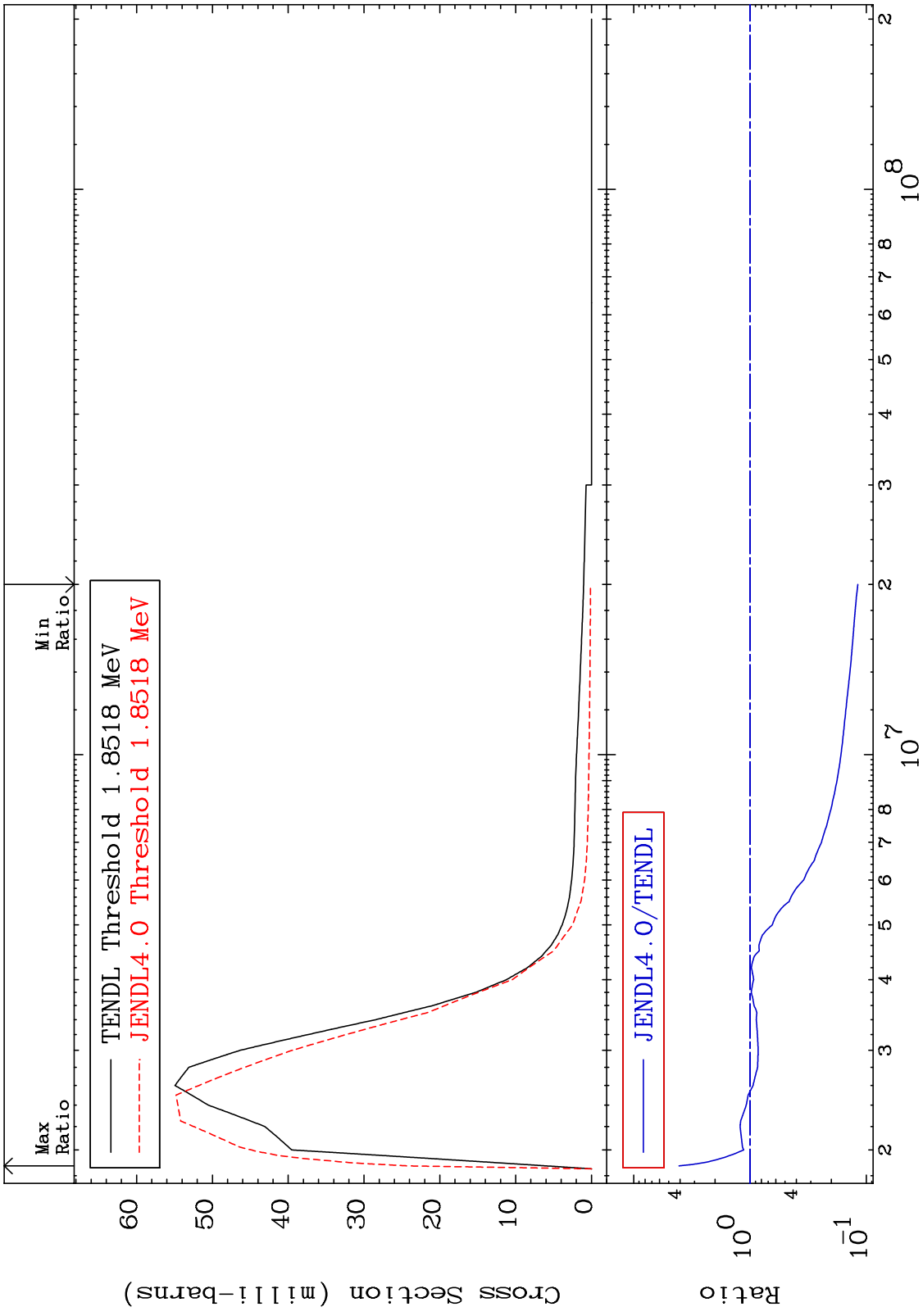
MAT 6425 MT= 72 (n,n') Level Cross Section 64-Gd-152
 -85.62 To 114.4 %



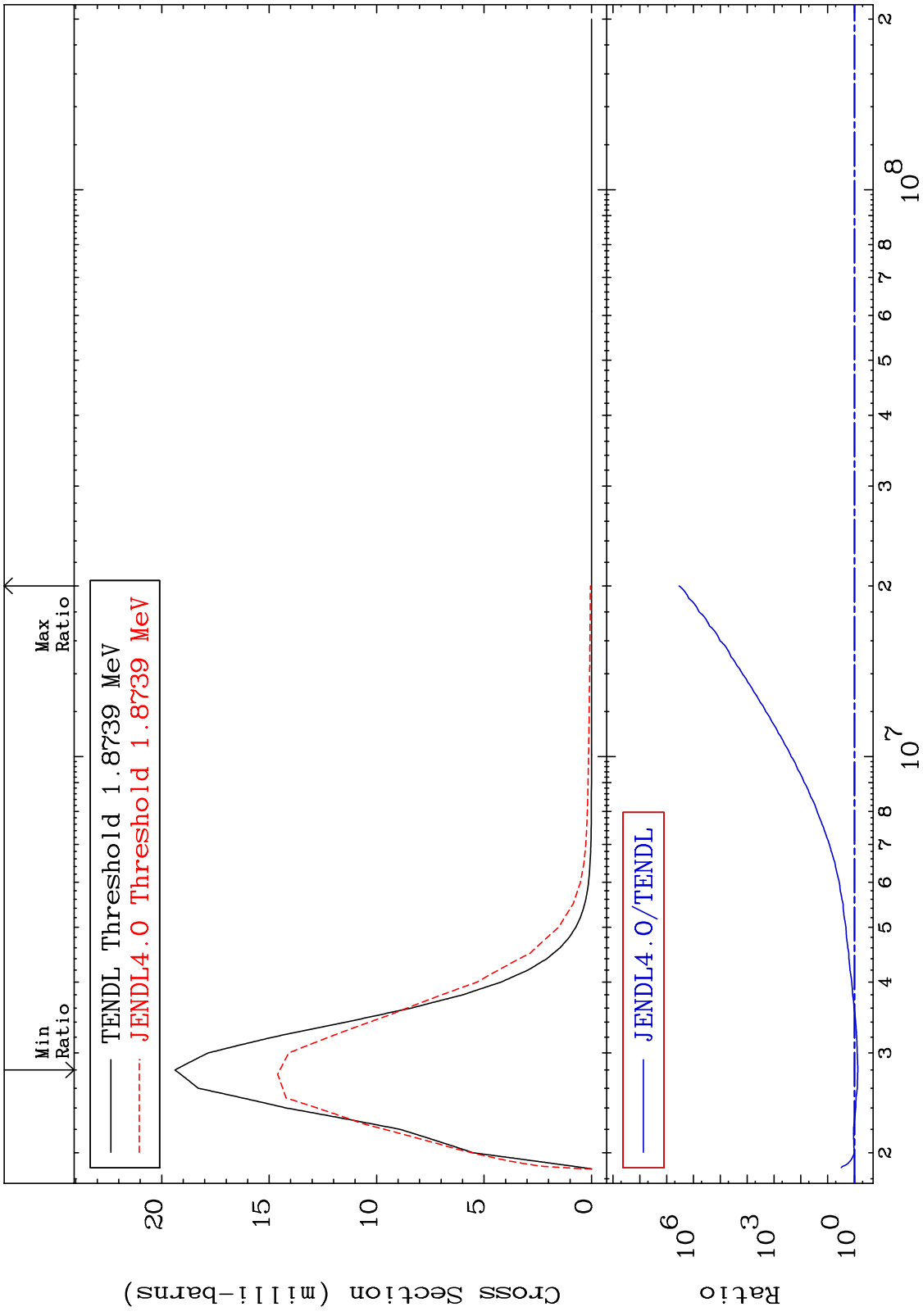
MAT 6425 MT= 73 (n,n') Level Cross Section 64-Gd-152
 -56.38 To 9999. %



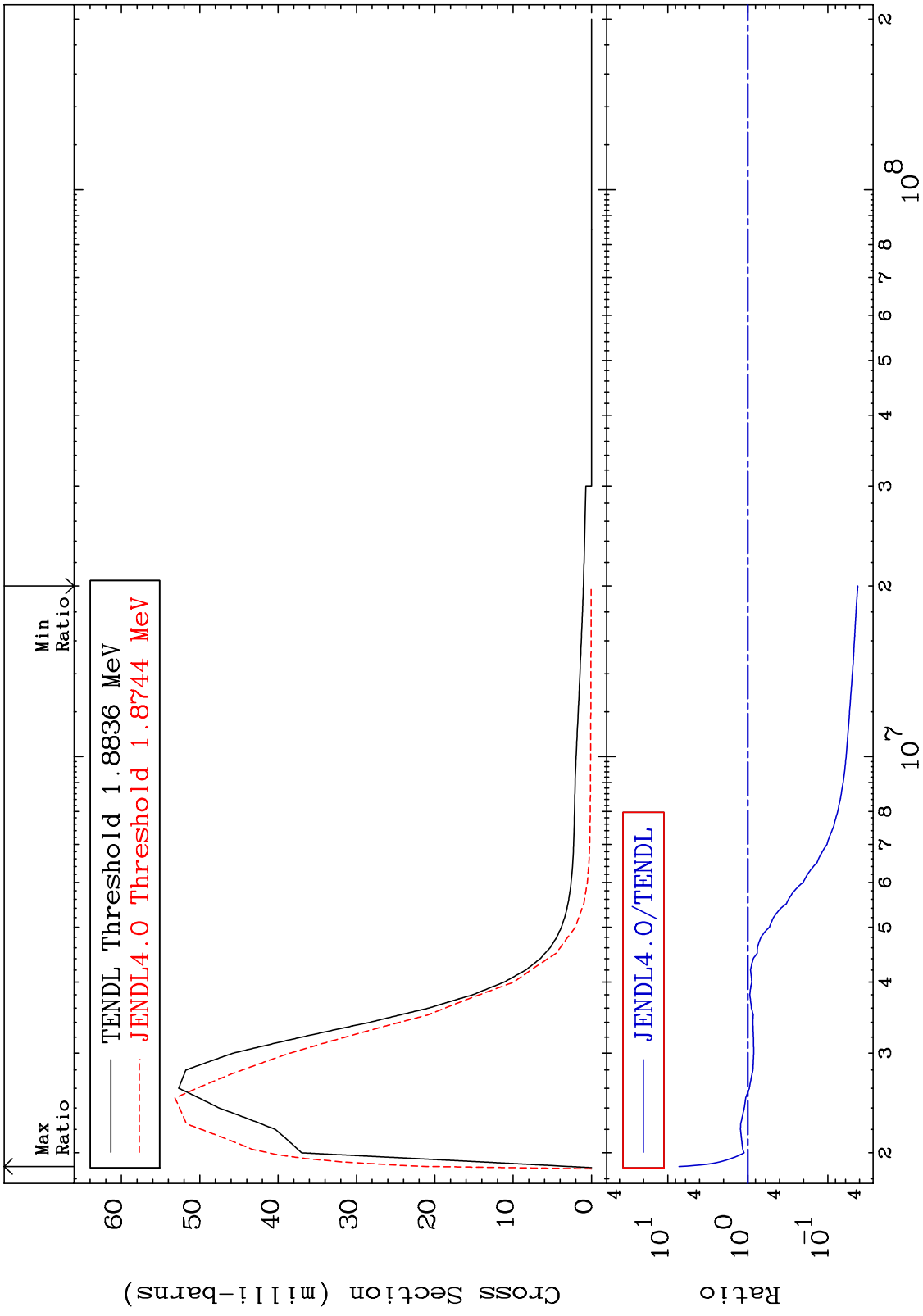
MAT 6425 MT= 74 (n,n') Level Cross Section 64-Gd-152 -88.16 To 307.9 %



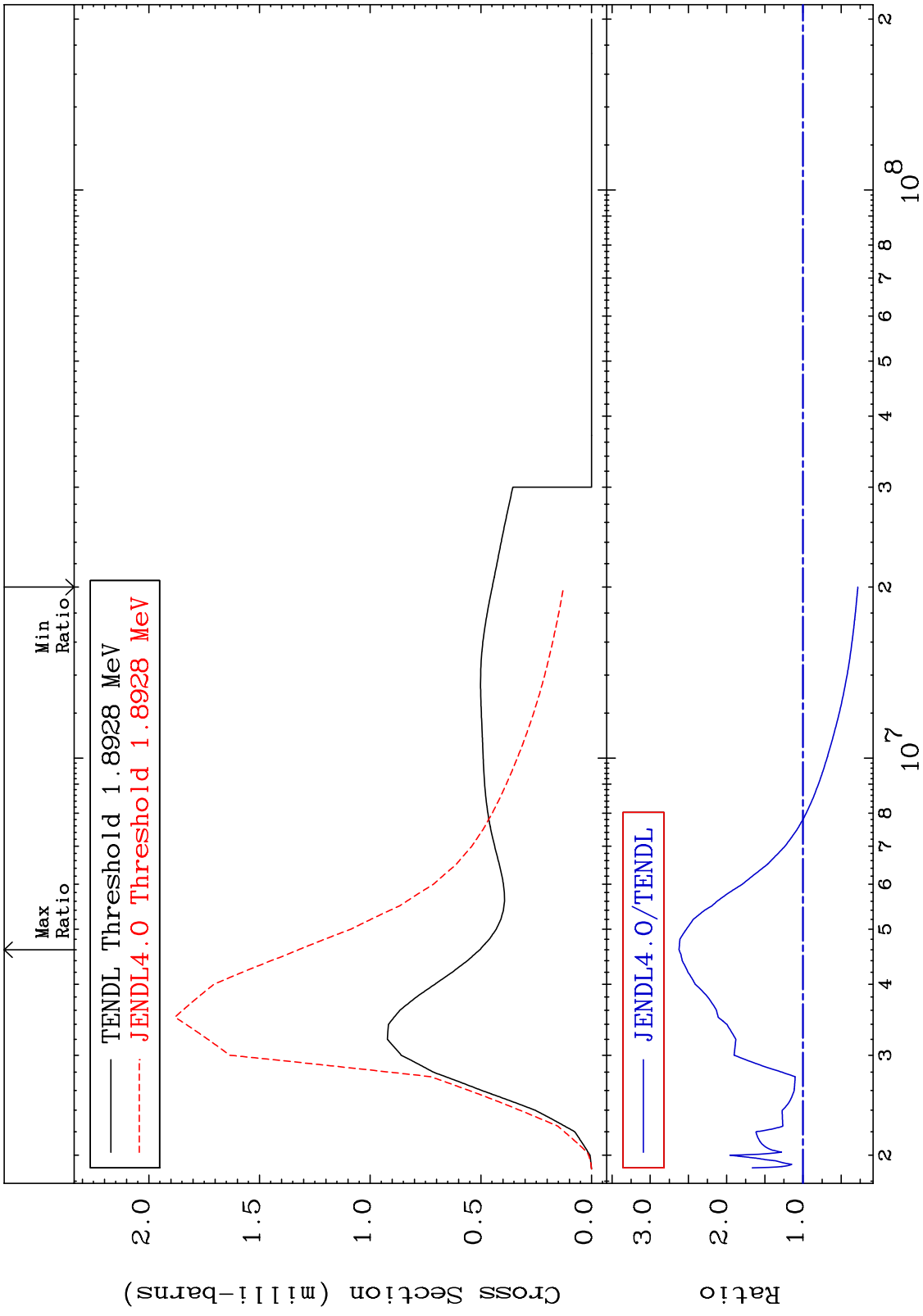
MAT 6425 MT= 75 (n,n') Level Cross Section 64-Gd-152
 -25.20 To 9999. %



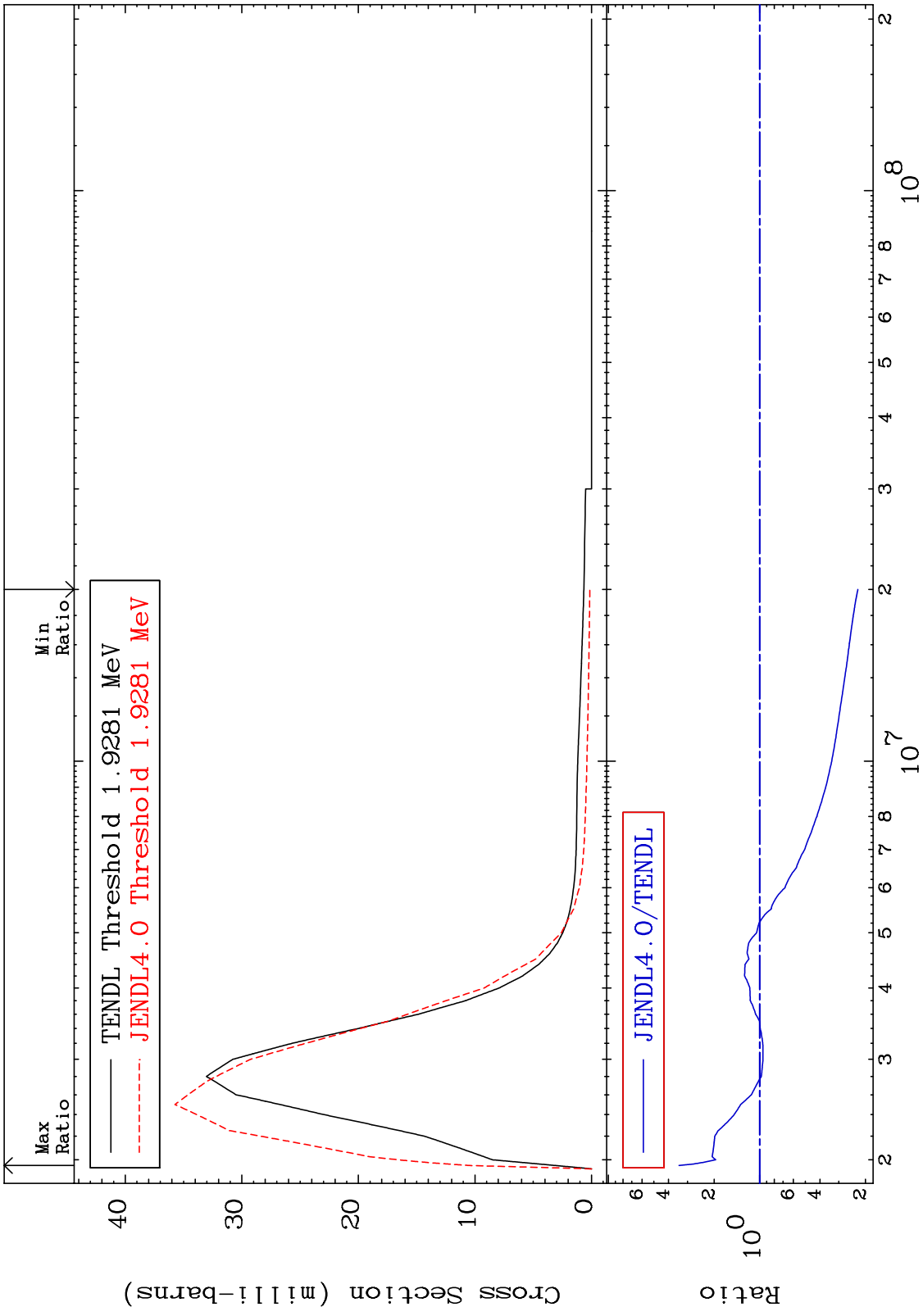
MAT 6425 MT= 76 (n,n') Level Cross Section 64-Gd-152 -95.79 To 622.2 %



MAT 6425 MT= 77 (n,n') Level Cross Section 64-Gd-152
 -71.84 To 162.3 %

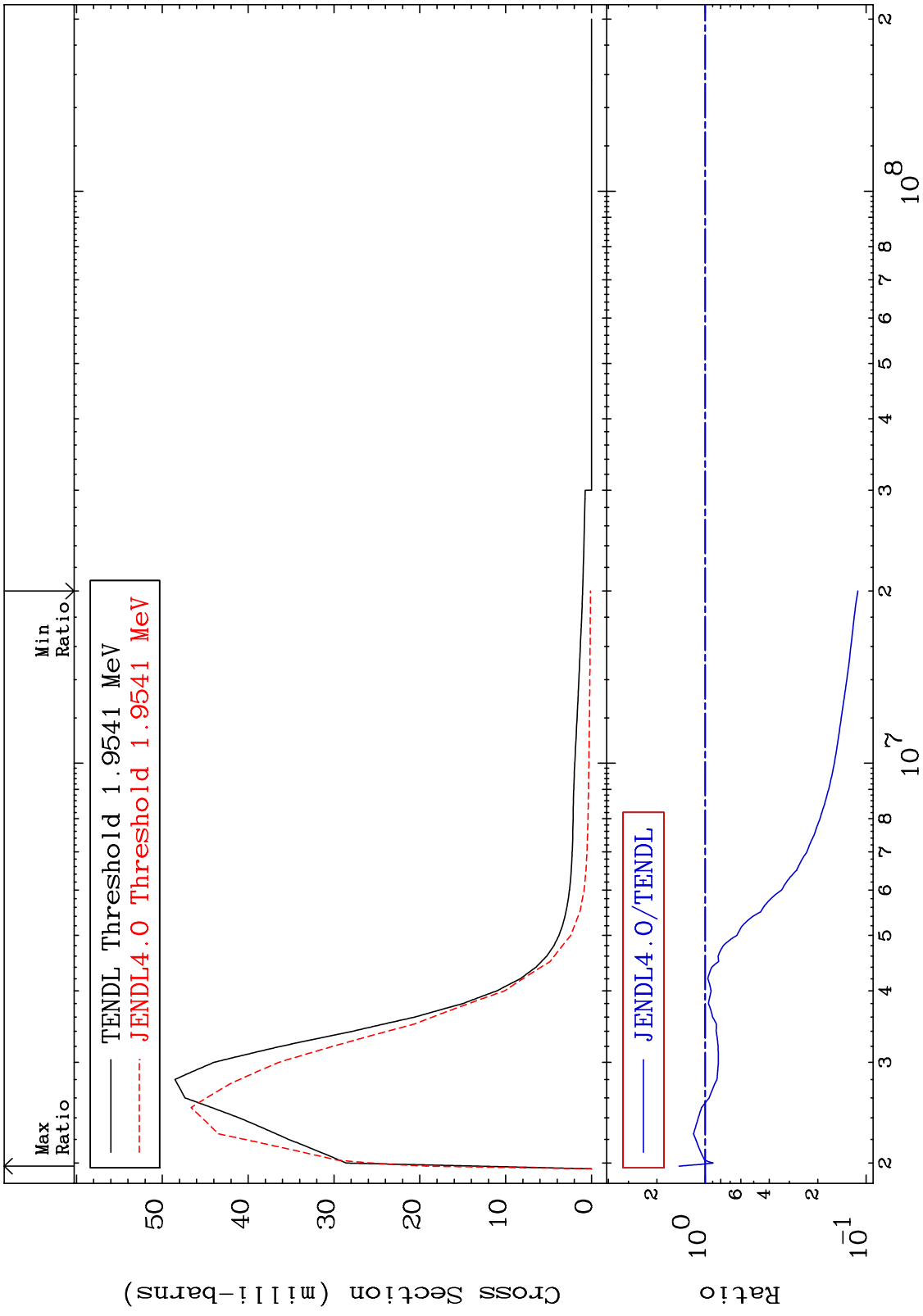


MAT 6425 MT= 78 (n,n') Level Cross Section 64-Gd-152
 -77.54 To 241.1 %

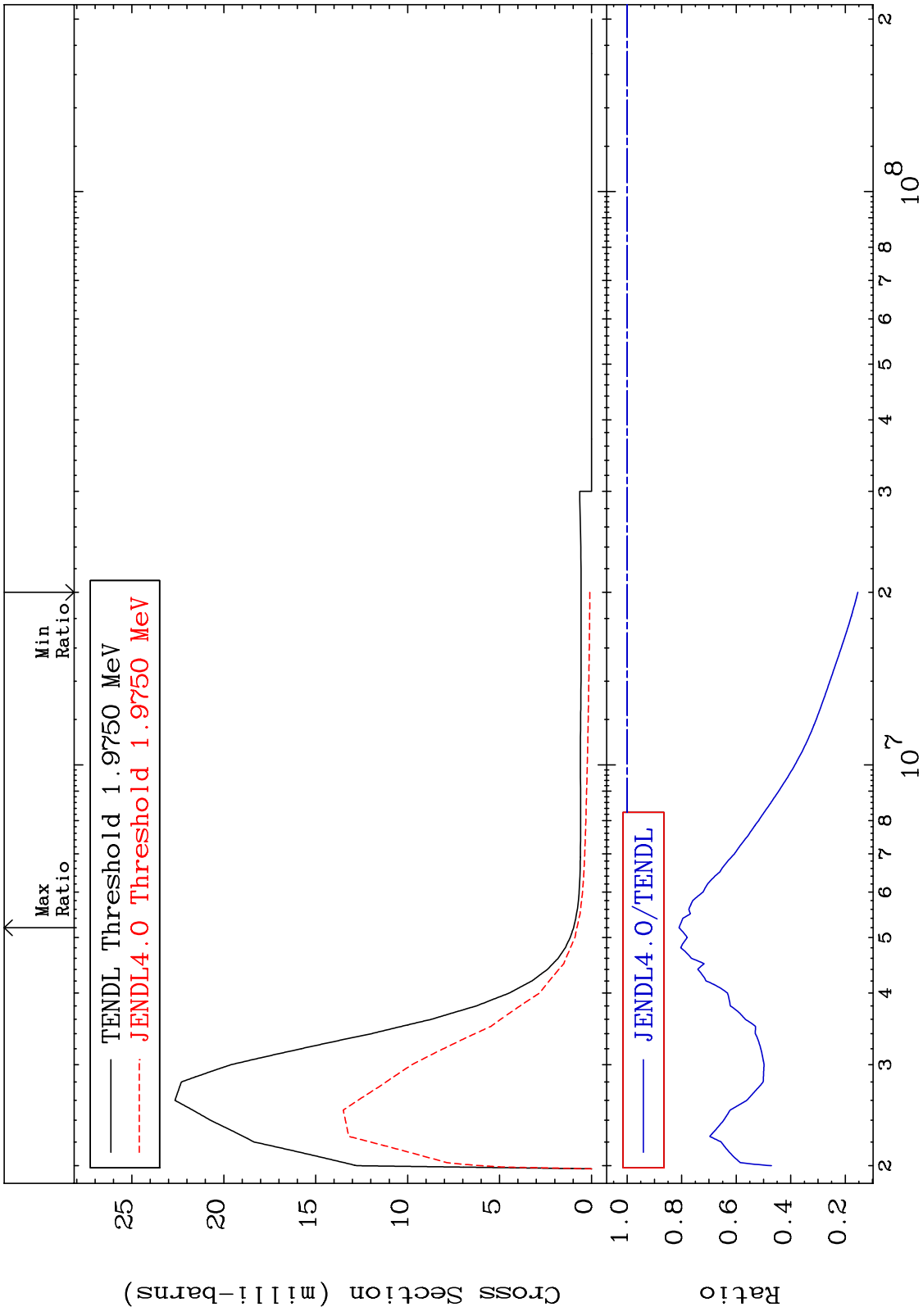


40 64-Gd-152

MAT 6425 MT= 79 (n,n') Level Cross Section 64-Gd-152 -88.74 To 45.49 %



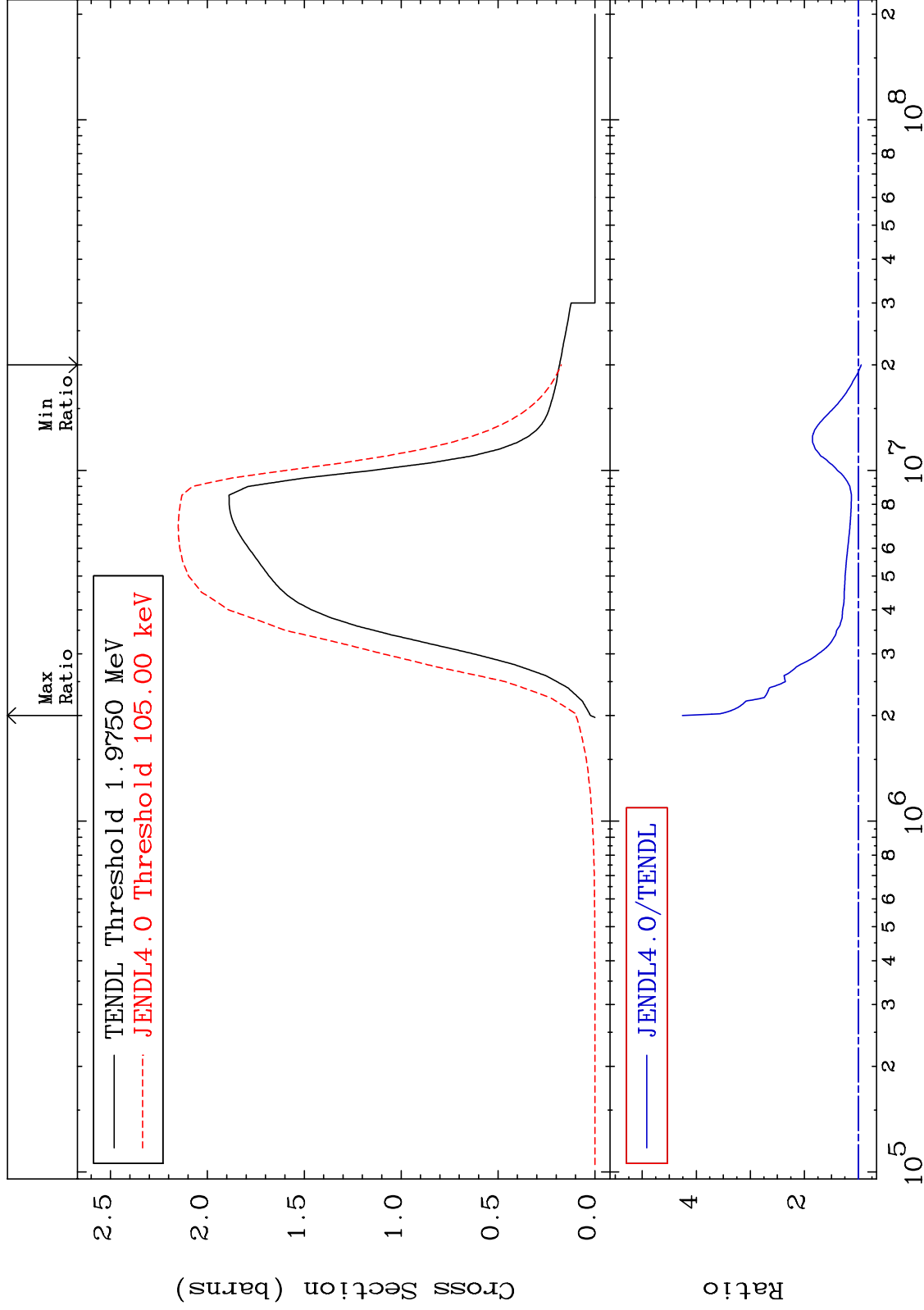
MAT 6425 MT= 80 (n,n') Level Cross Section 64-Gd-152 -84.62 To -19.02%



MAT 6425

(n, n') Continuum
Cross Section

64-Gd-152
-5.233 To 325.6 %

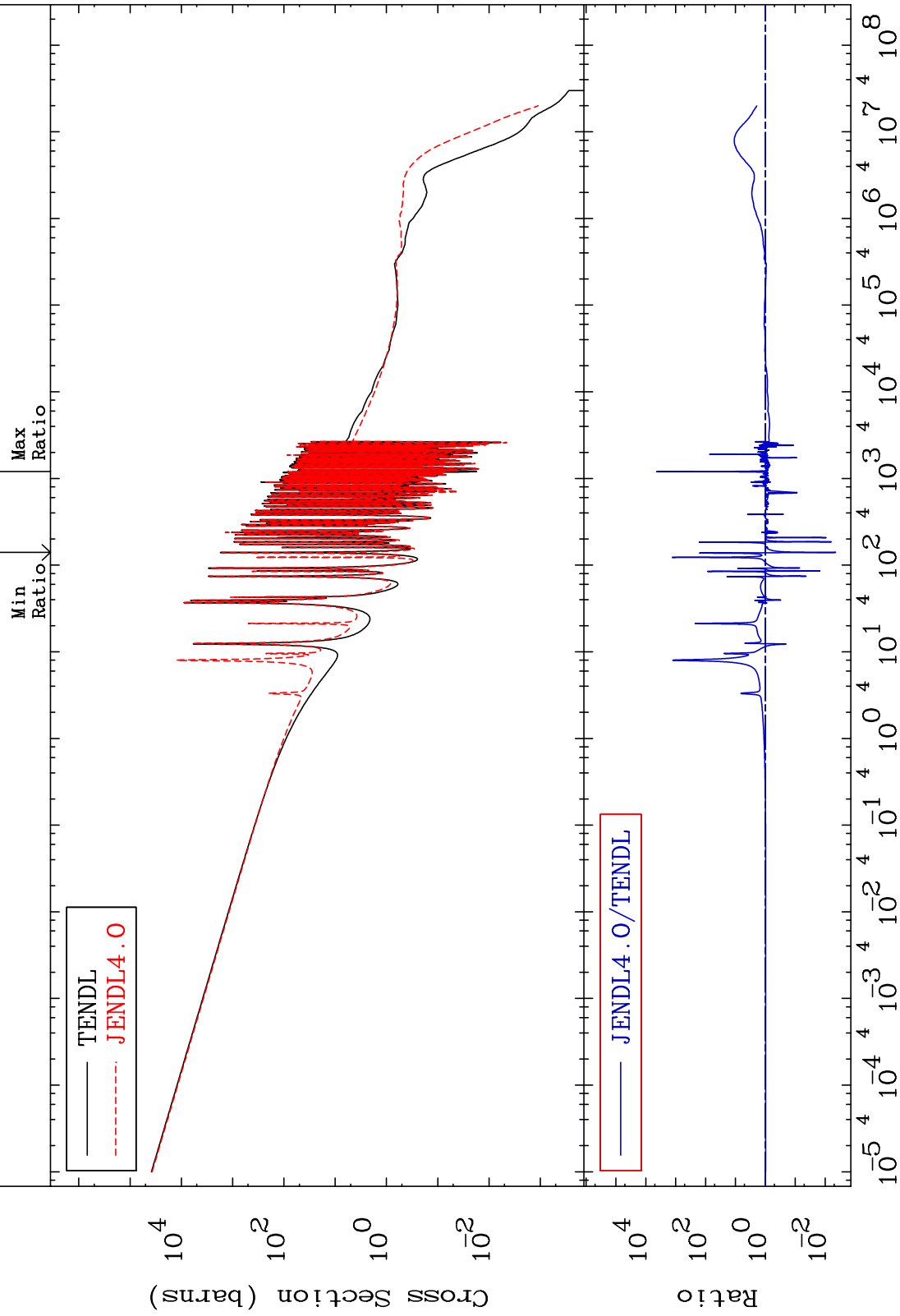


43

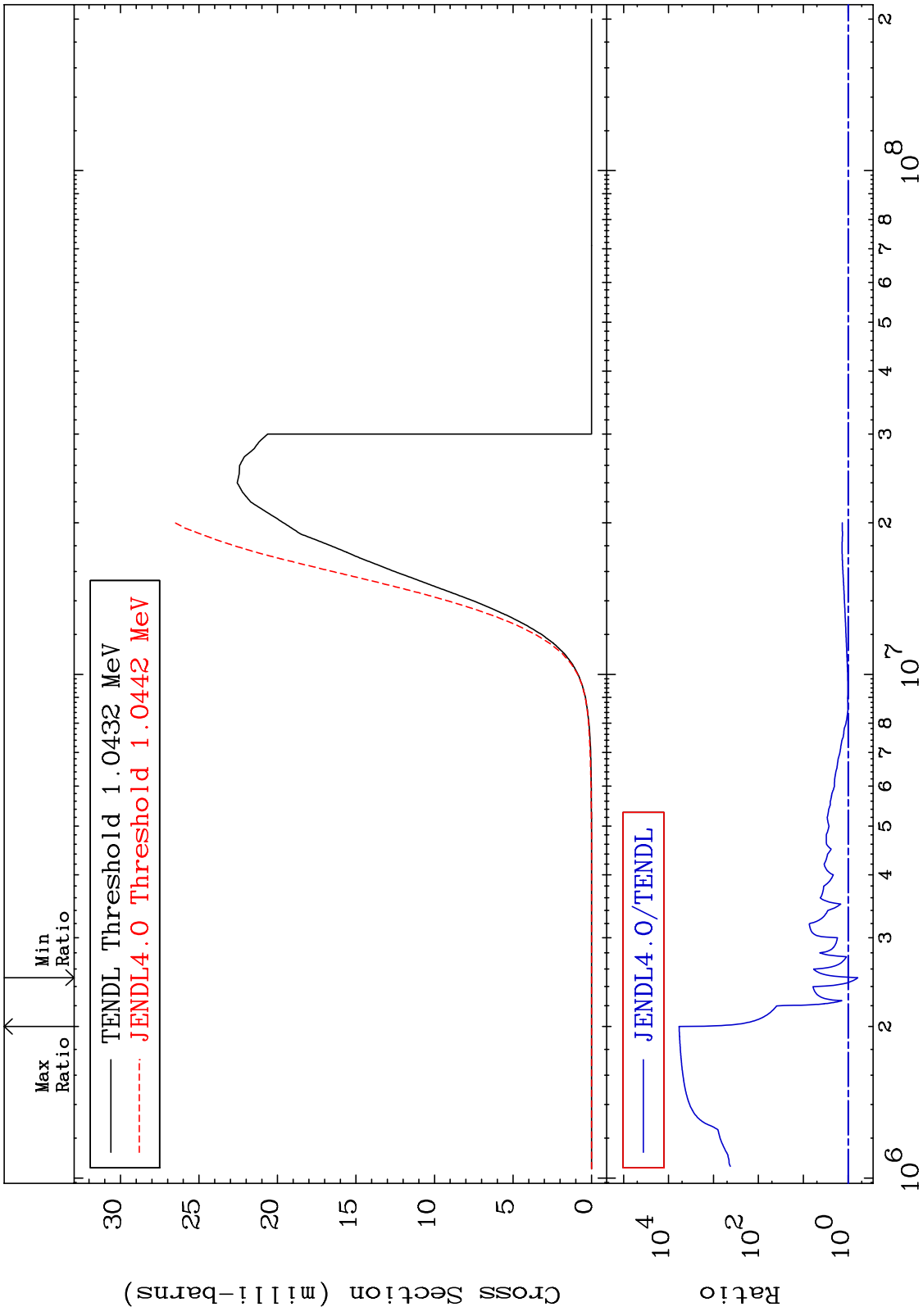
MAT 6425

(n, γ)
Cross Section

64-Gd-152
-99.55 To 9999. %

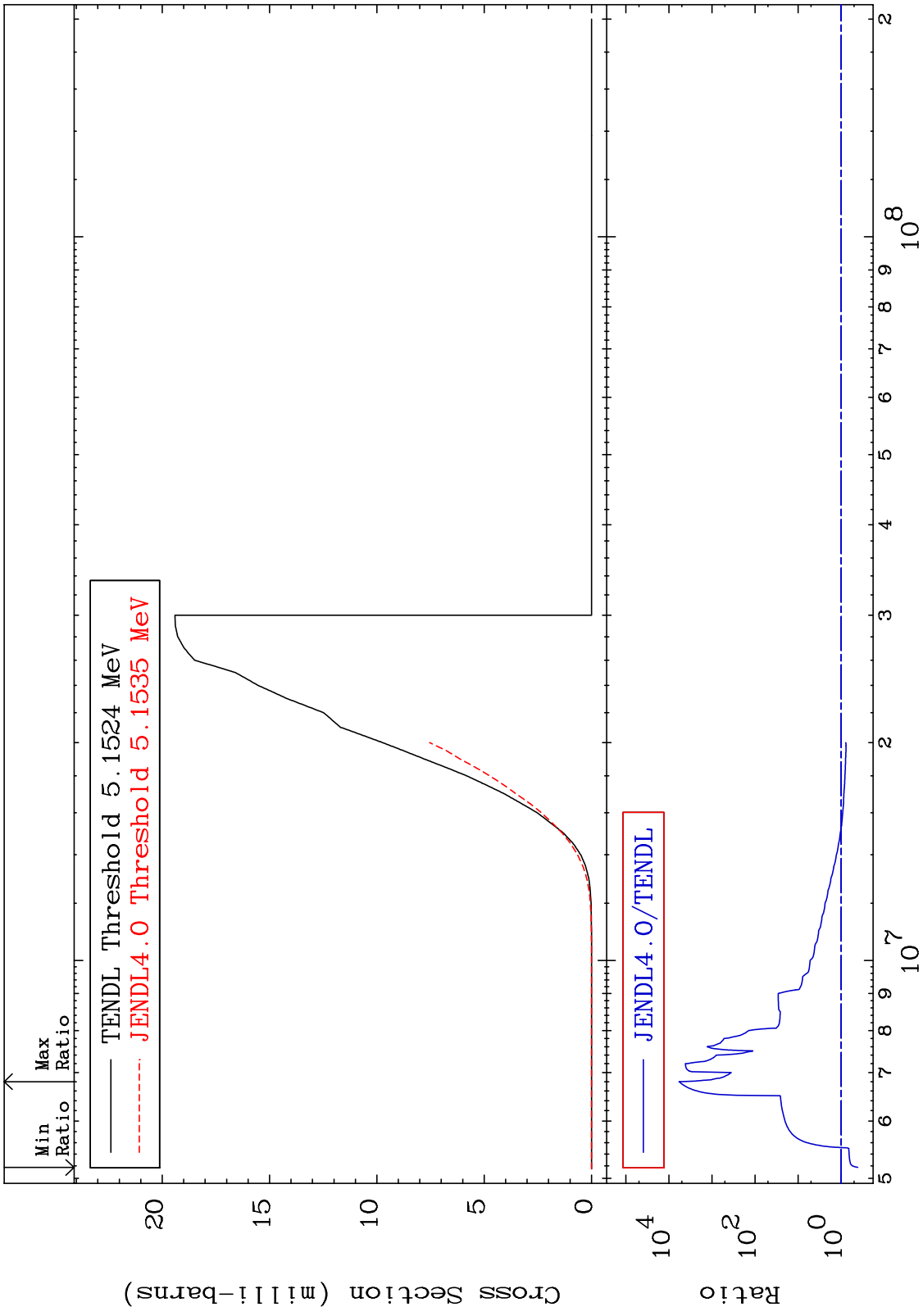


MAT 6425 (n,p) Cross Section 64-Gd-152
 -38.91 To 9999. %

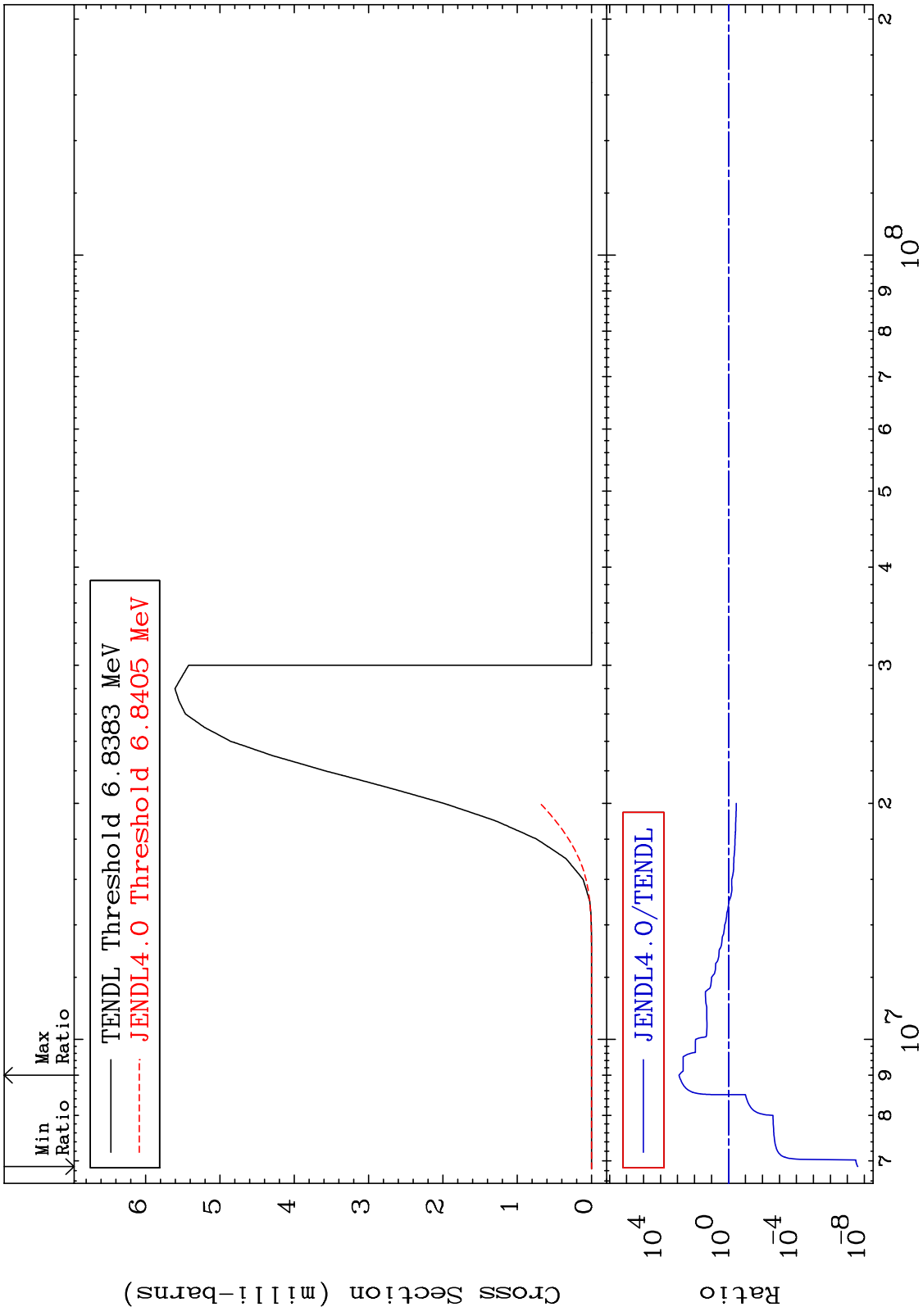


Incident Energy (eV) 64-Gd-152

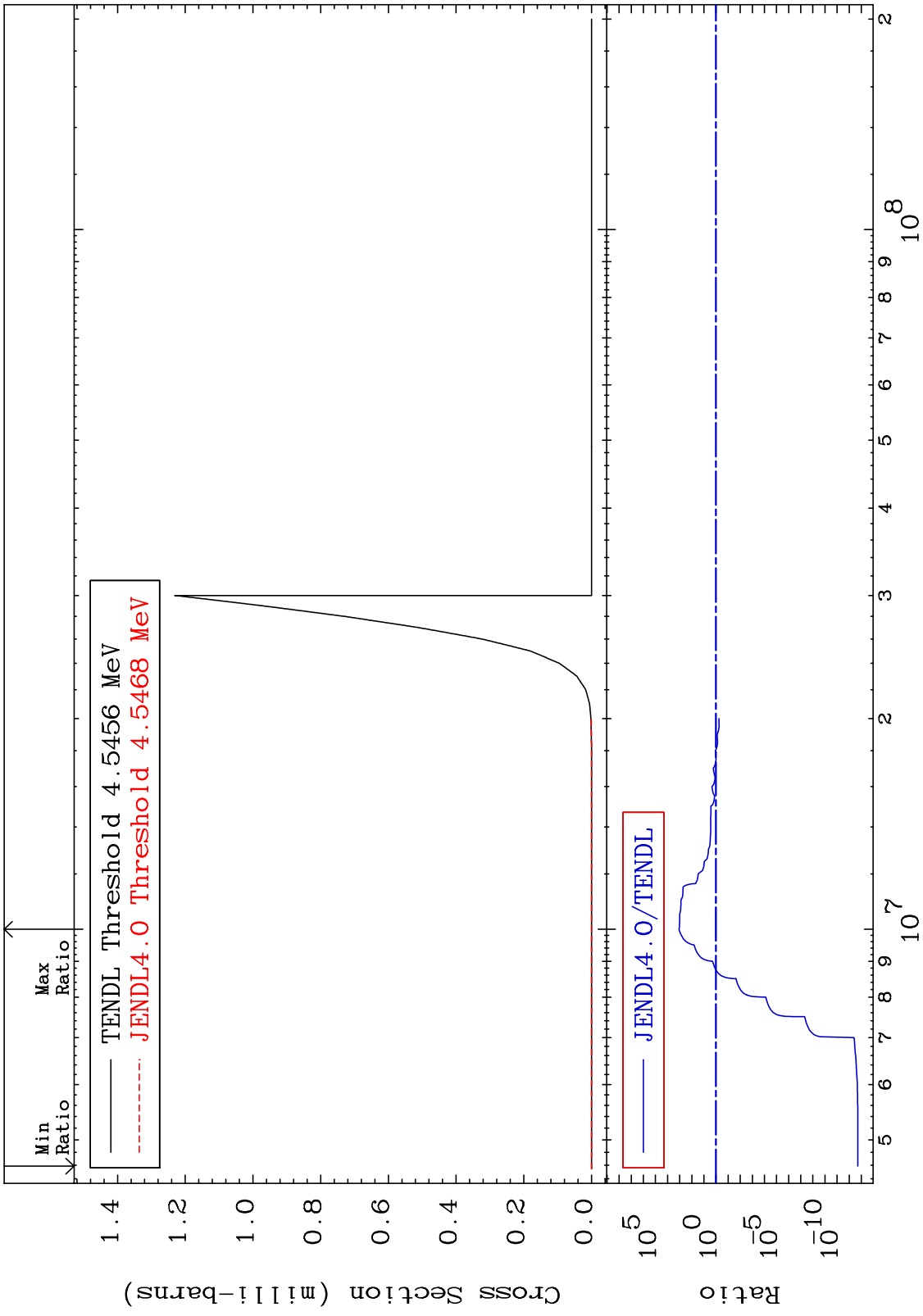
MAT 6425 (n,d) Cross Section 64-Gd-152
 -59.17 To 9999. %



MAT 6425 (n,t) 64-Gd-152
Cross Section -100.0 To 9999. %



MAT 6425 (n,He-3) 64-Gd-152
 Cross Section -100.0 To 9999. %



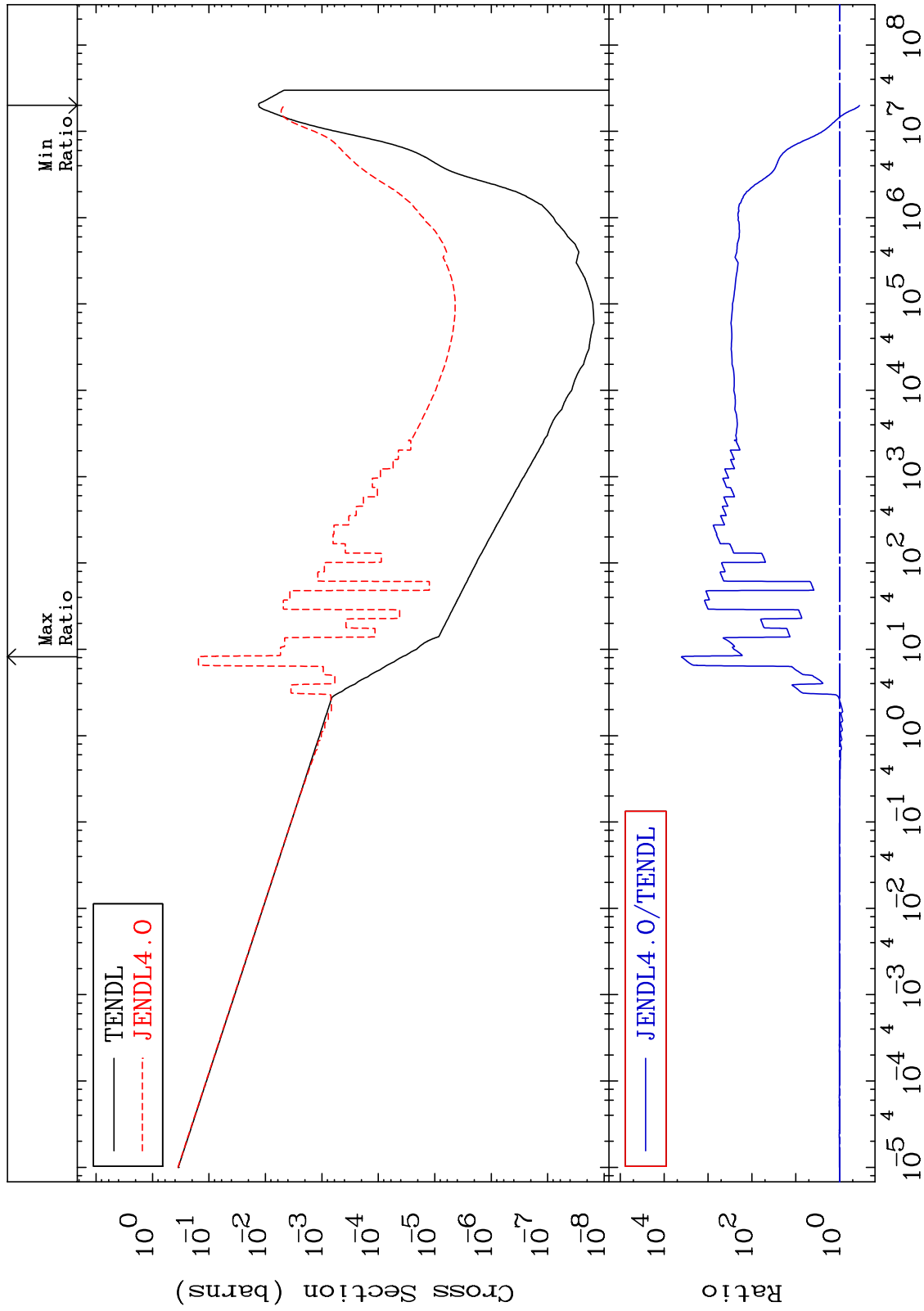
48 Incident Energy (eV) 64-Gd-152

MAT 6425

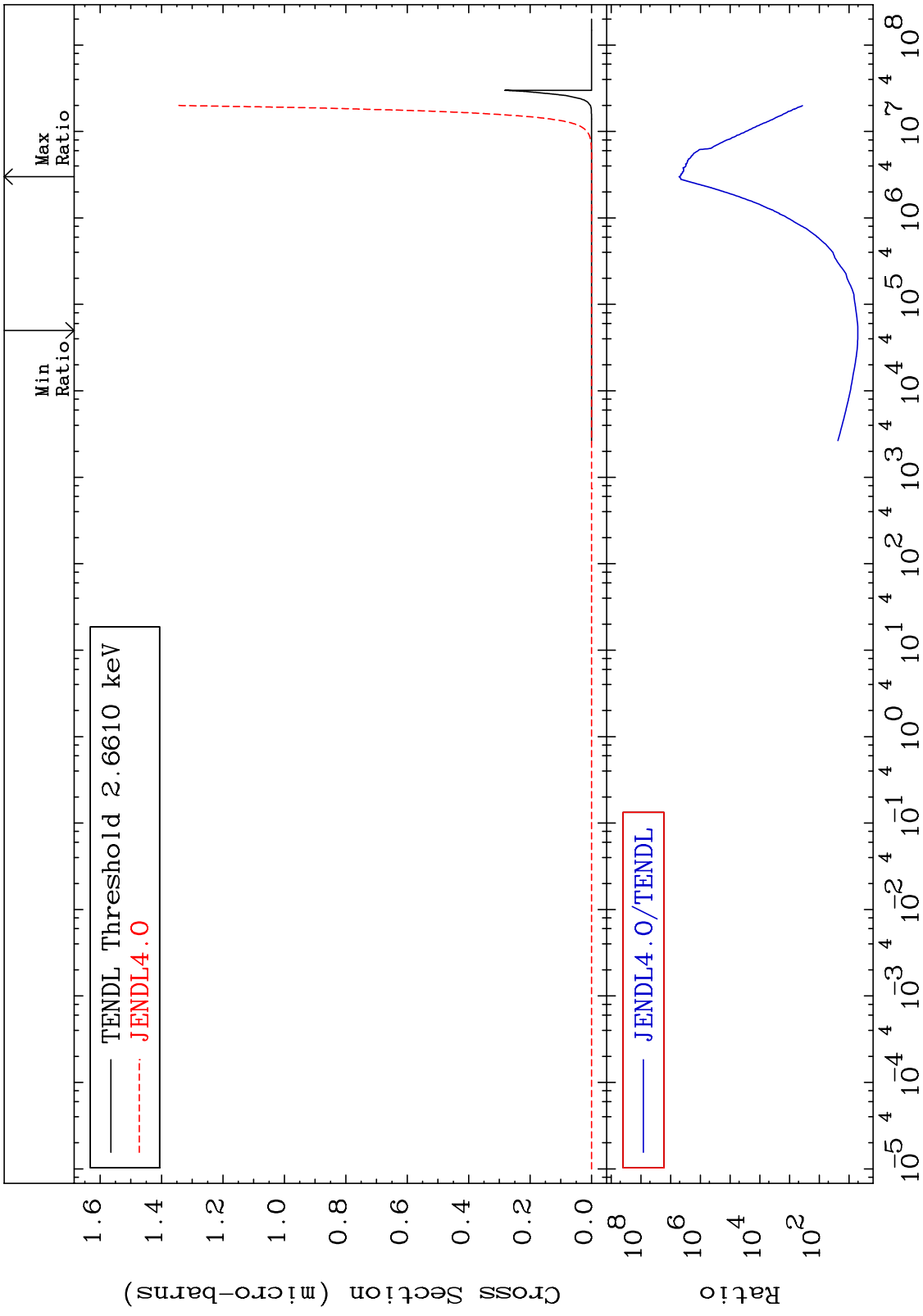
(n, α)

64-Gd-152

-65.34 To 9999. %



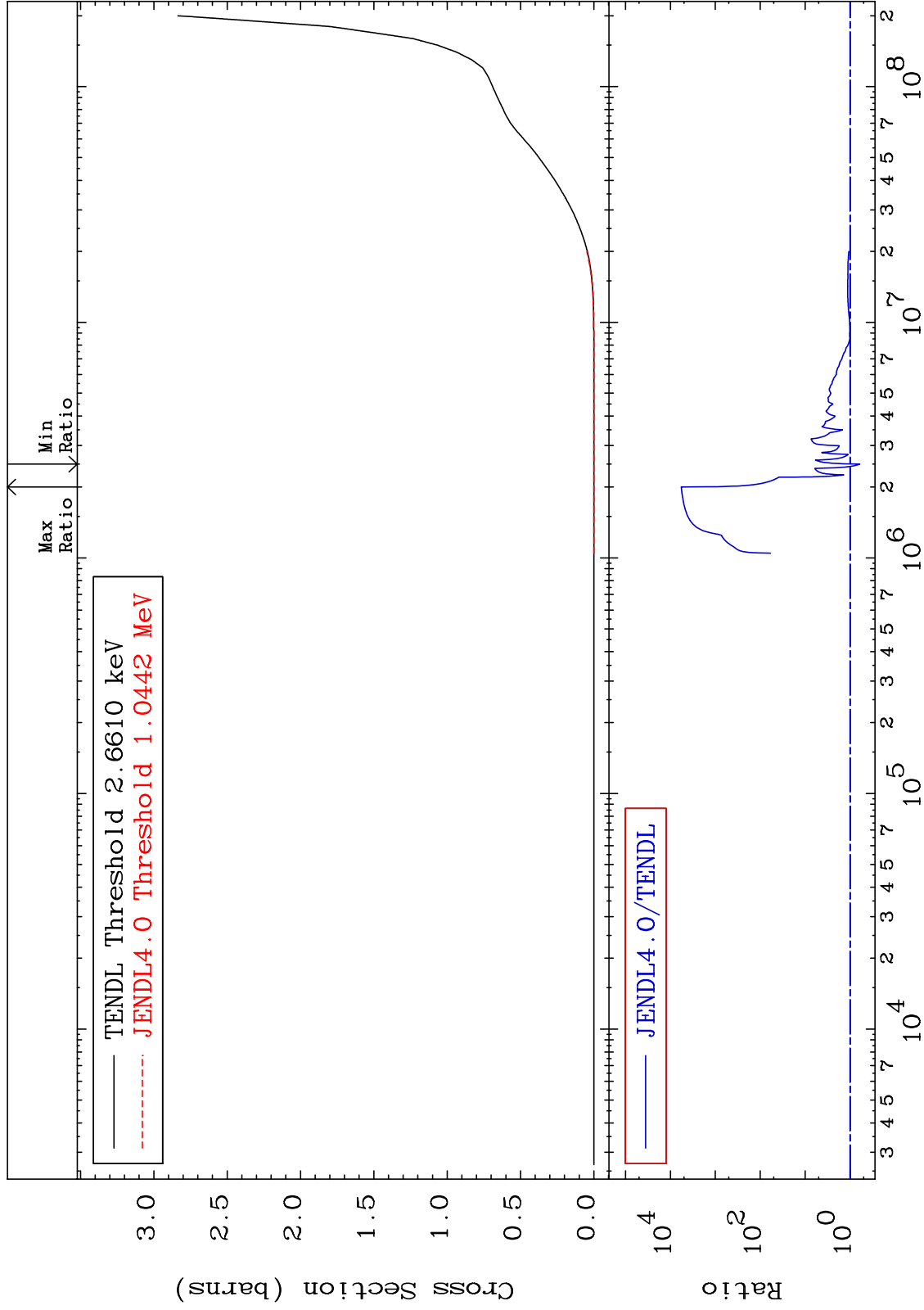
MAT 6425 $(n, 2\alpha)$ Cross Section 64-Gd-152 408.2 To 9999. %



MAT 6425

Hydrogen Production
Cross Section

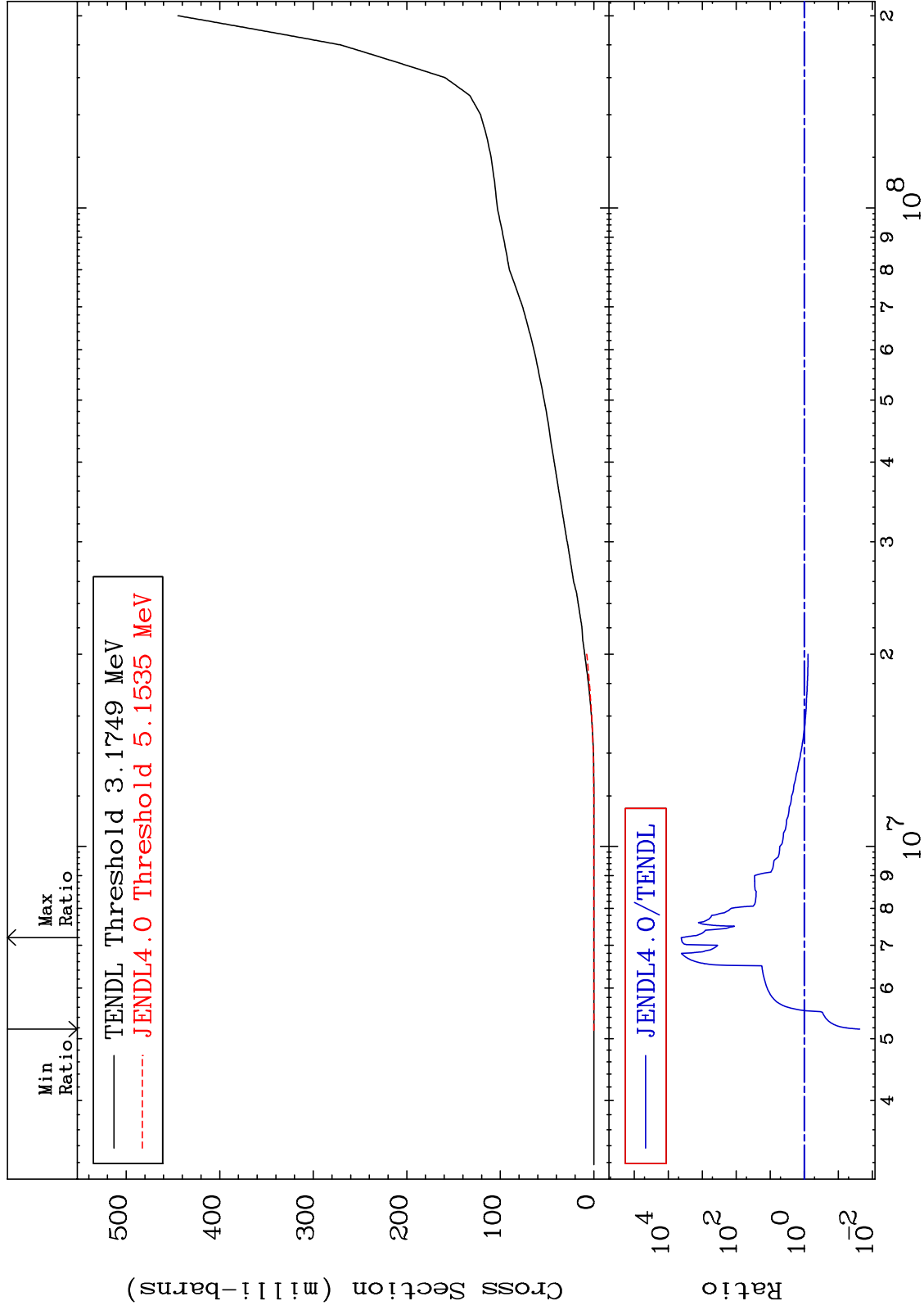
64-Gd-152
-38.91 To 9999. %

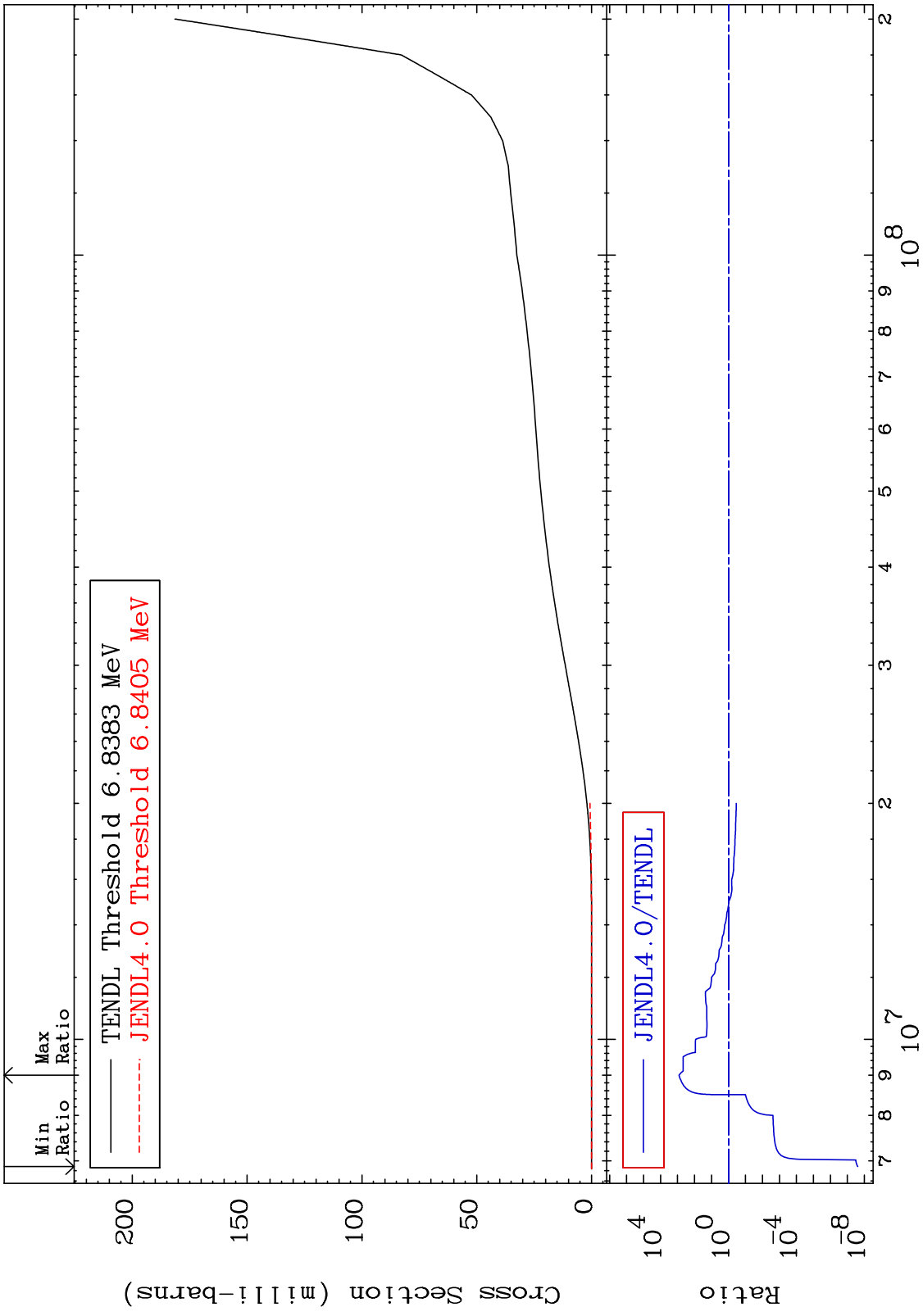


MAT 6425

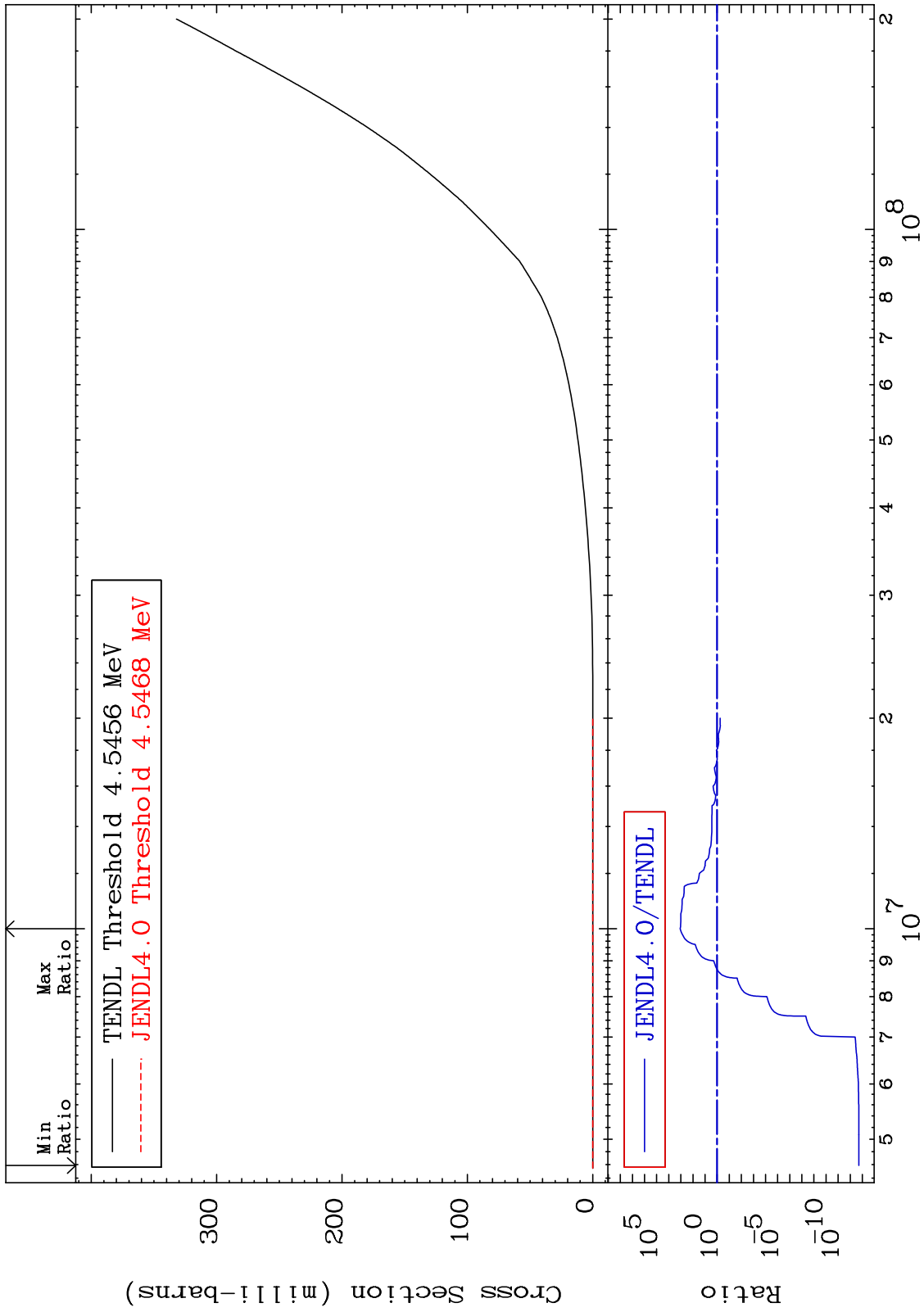
Deuterium Production Cross Section

64-Gd-152
-97.66 To 9999. %





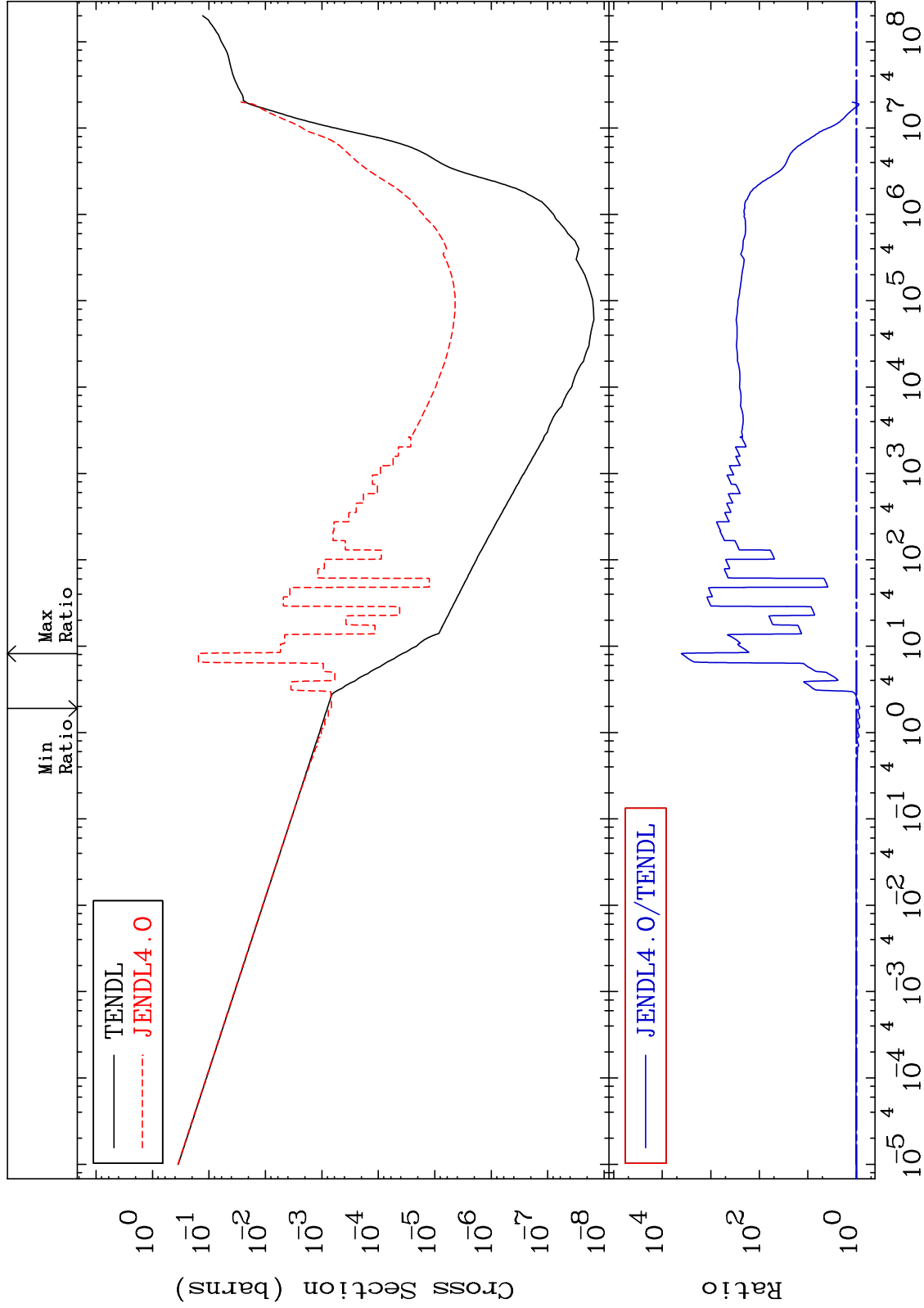
MAT 6425 He-3 Production Cross Section 64-Gd-152 -100.0 To 9999. %



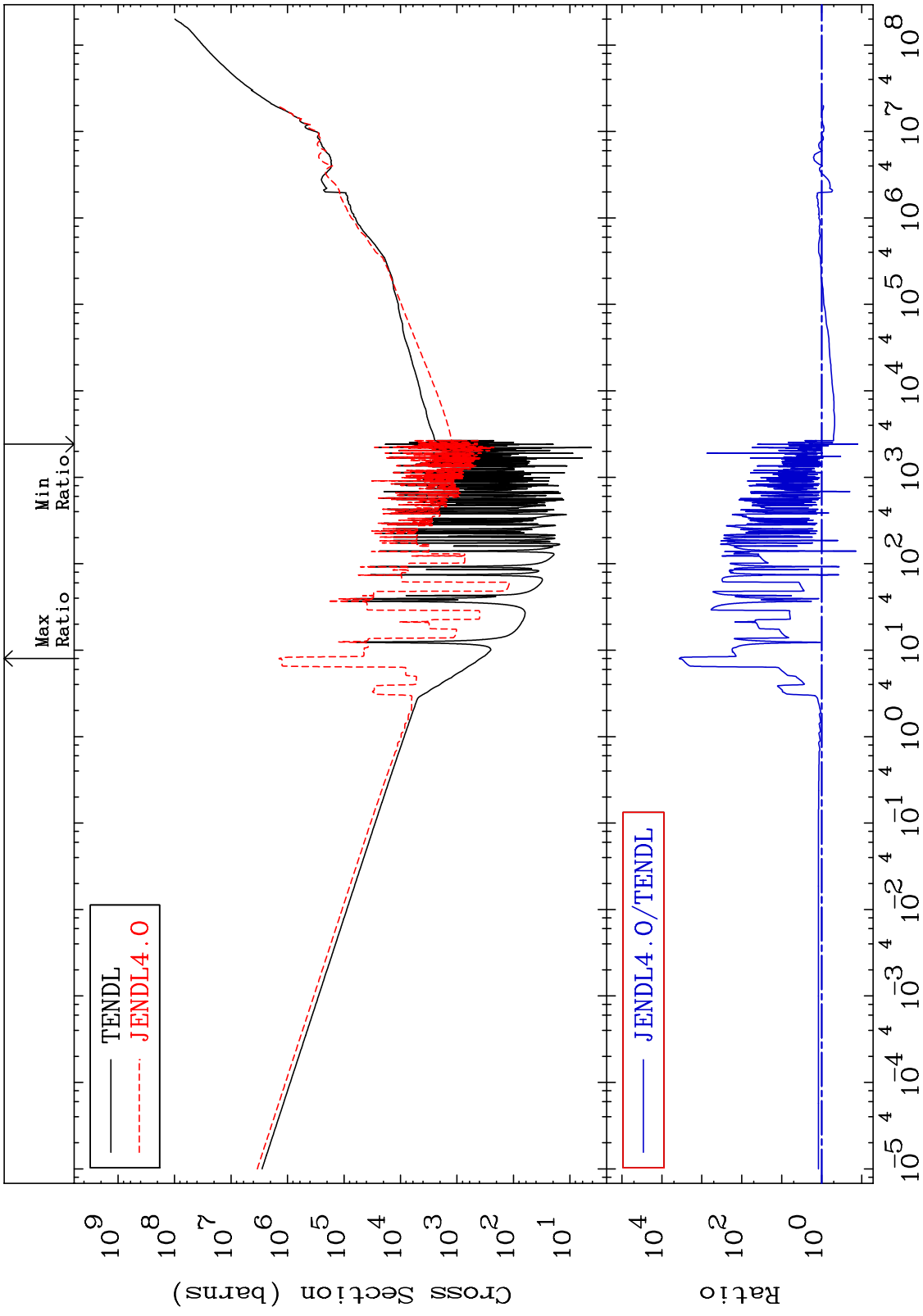
MAT 6425

He-4 Production
Cross Section

64-Gd-152
-14.72 To 9999. %



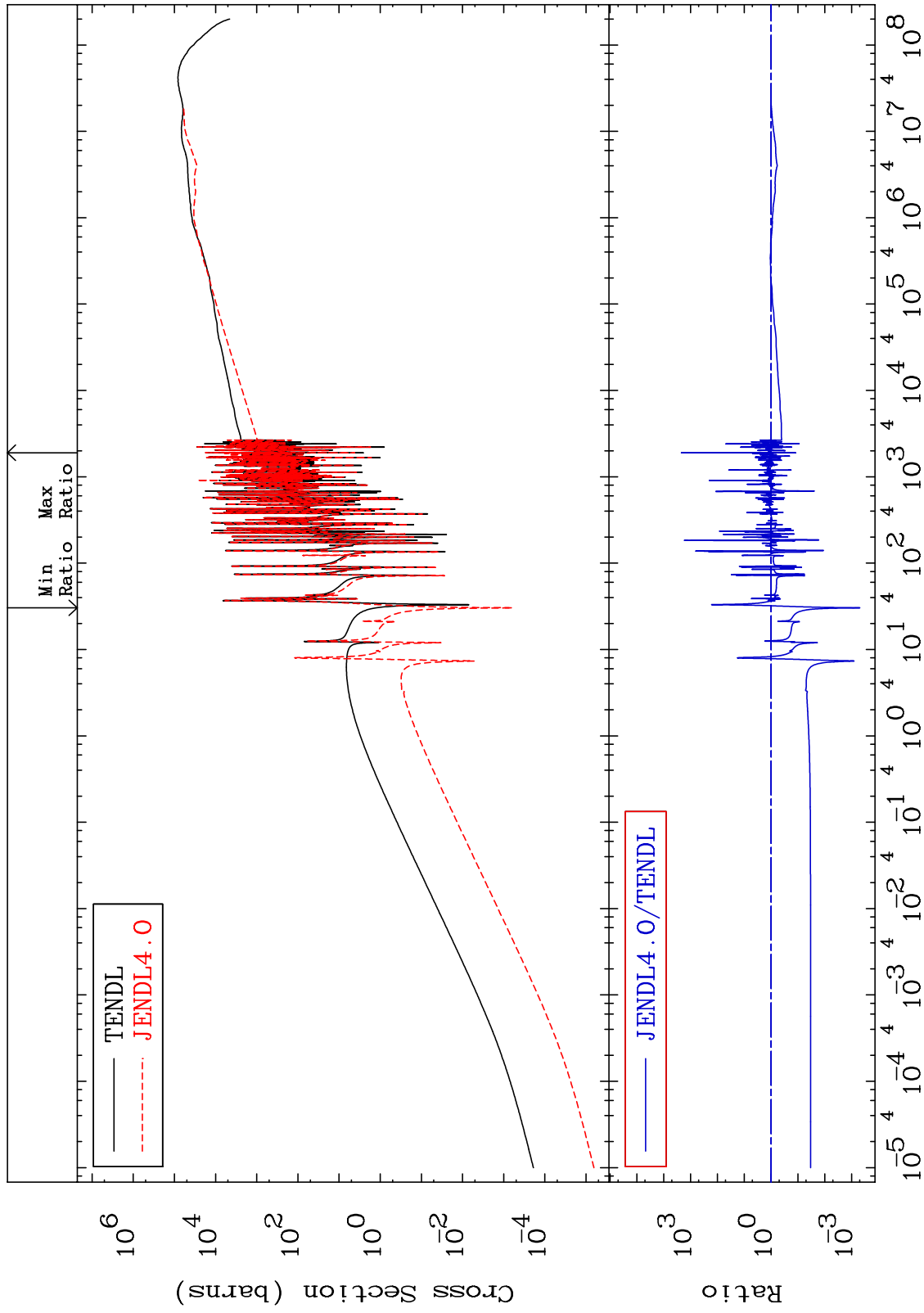
MAT 6425 Kerma total (eV-barns) 64-Gd-152
 Cross Section -87.52 To 9999. %



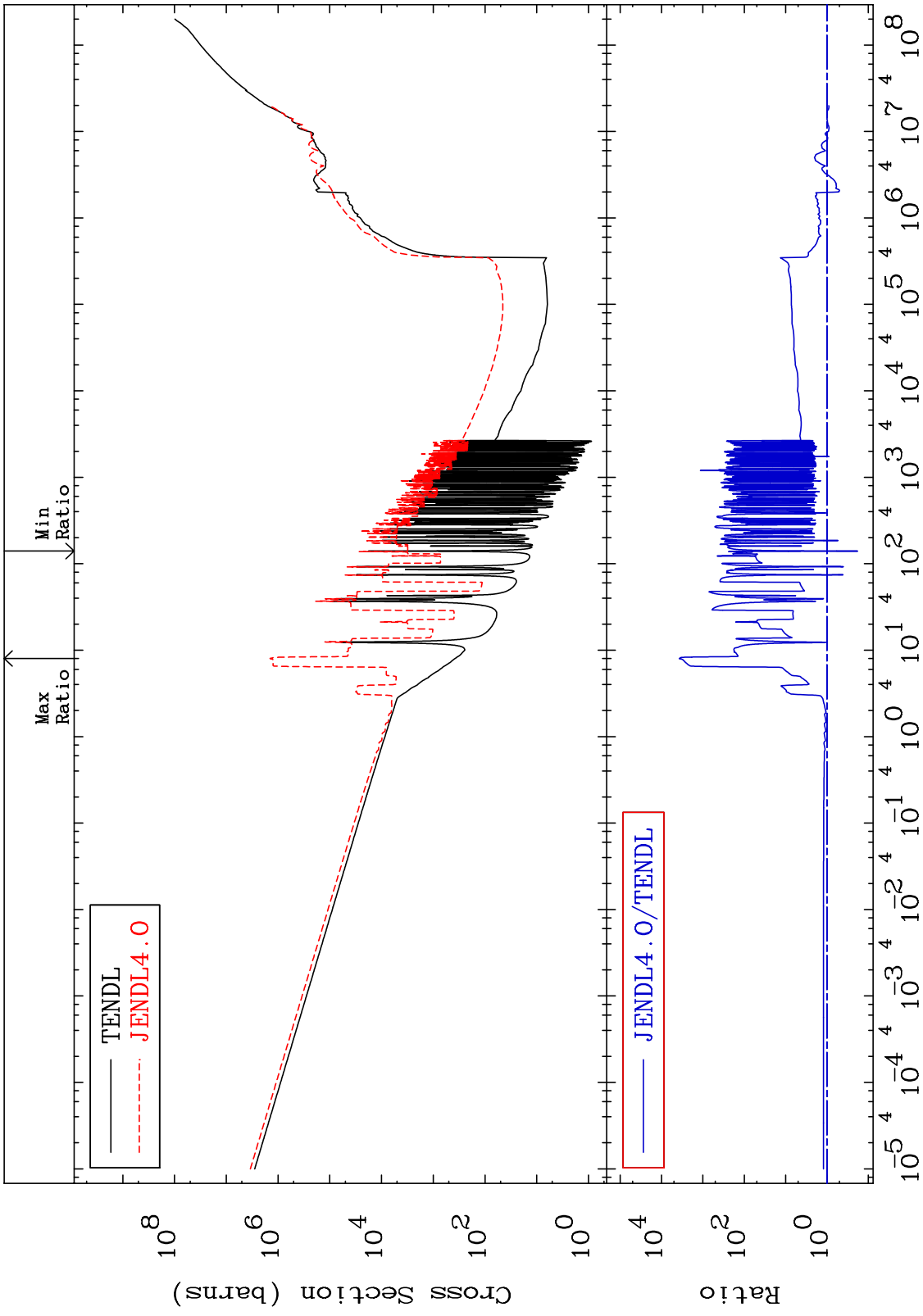
MAT 6425

Kerma elastic
Cross Section

64-Gd-152
-99.95 To 9999. %



MAT 6425 Kerma non-elastic (all but mt2) 64-Gd-152
 Cross Section -82.03 To 9999. %



MAT 6425 Kerma inelastic (mt51-91) 64-Gd-152
 Cross Section -50.63 To 9999. %

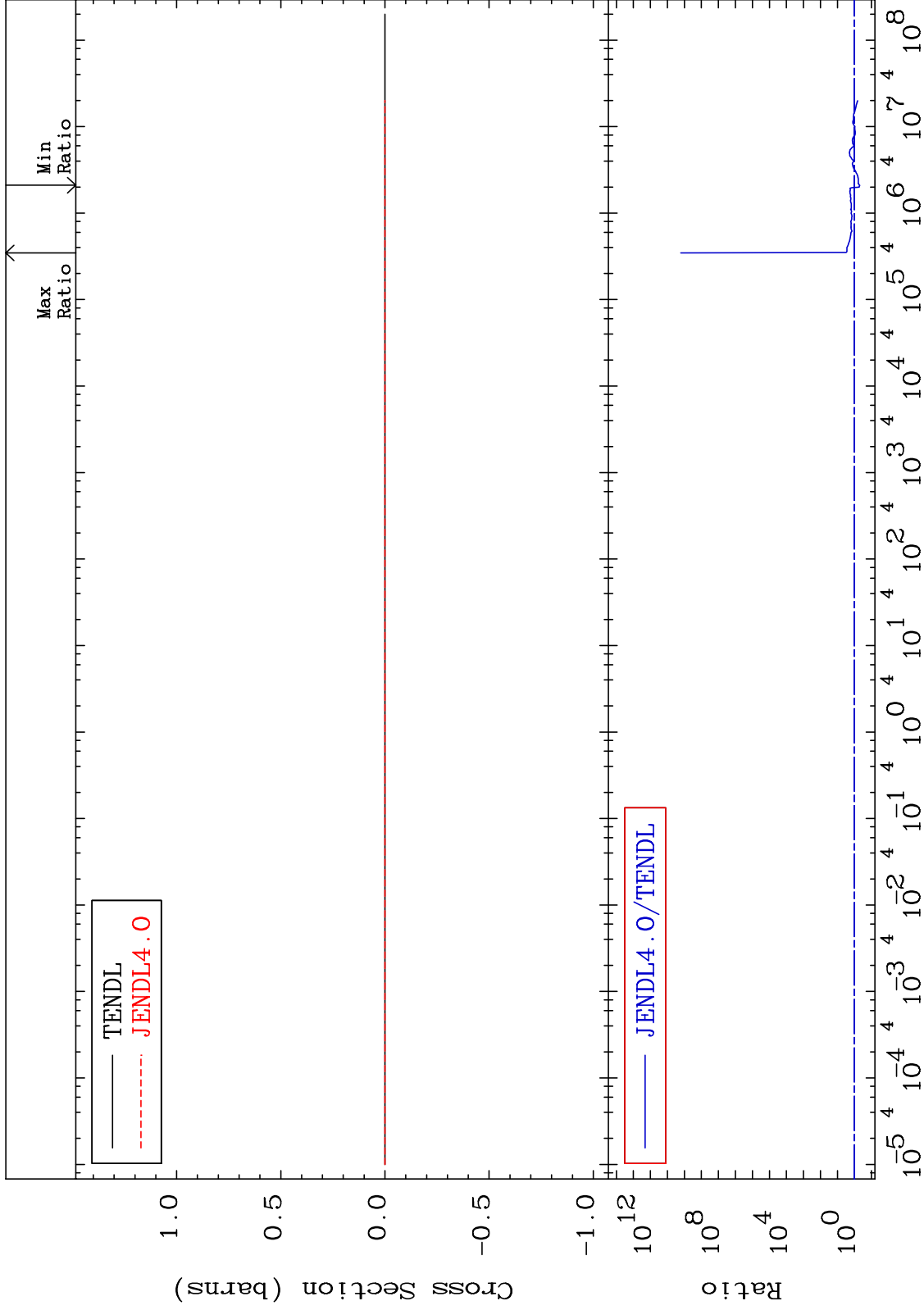


59 Incident Energy (eV) 64-Gd-152

MAT 6425

Kerma fission (mt18 or mt19-20-21-38)
Cross Section

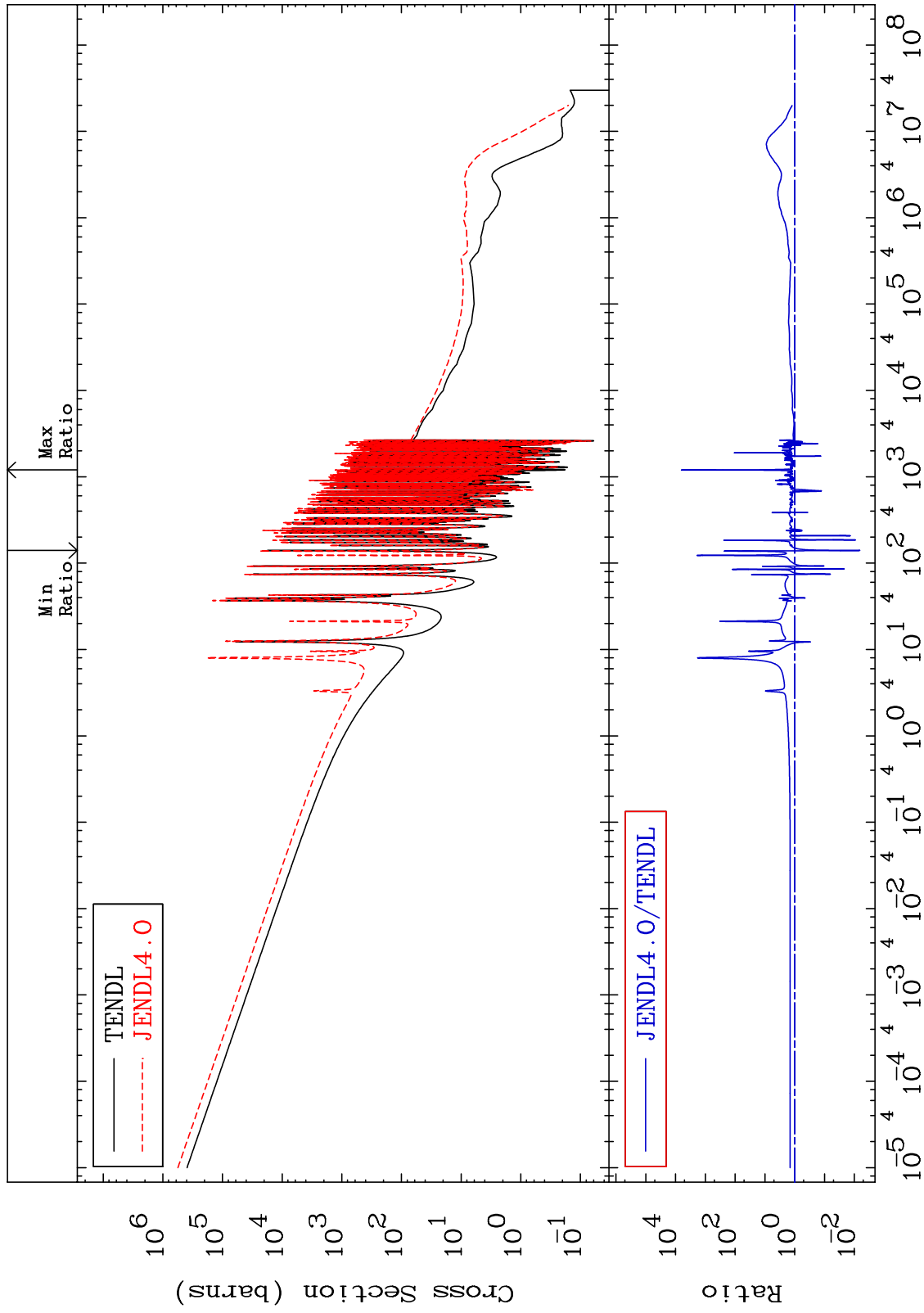
64-Gd-152
-50.63 To 9999. %



MAT 6425

Kerma capture (mt102)
Cross Section

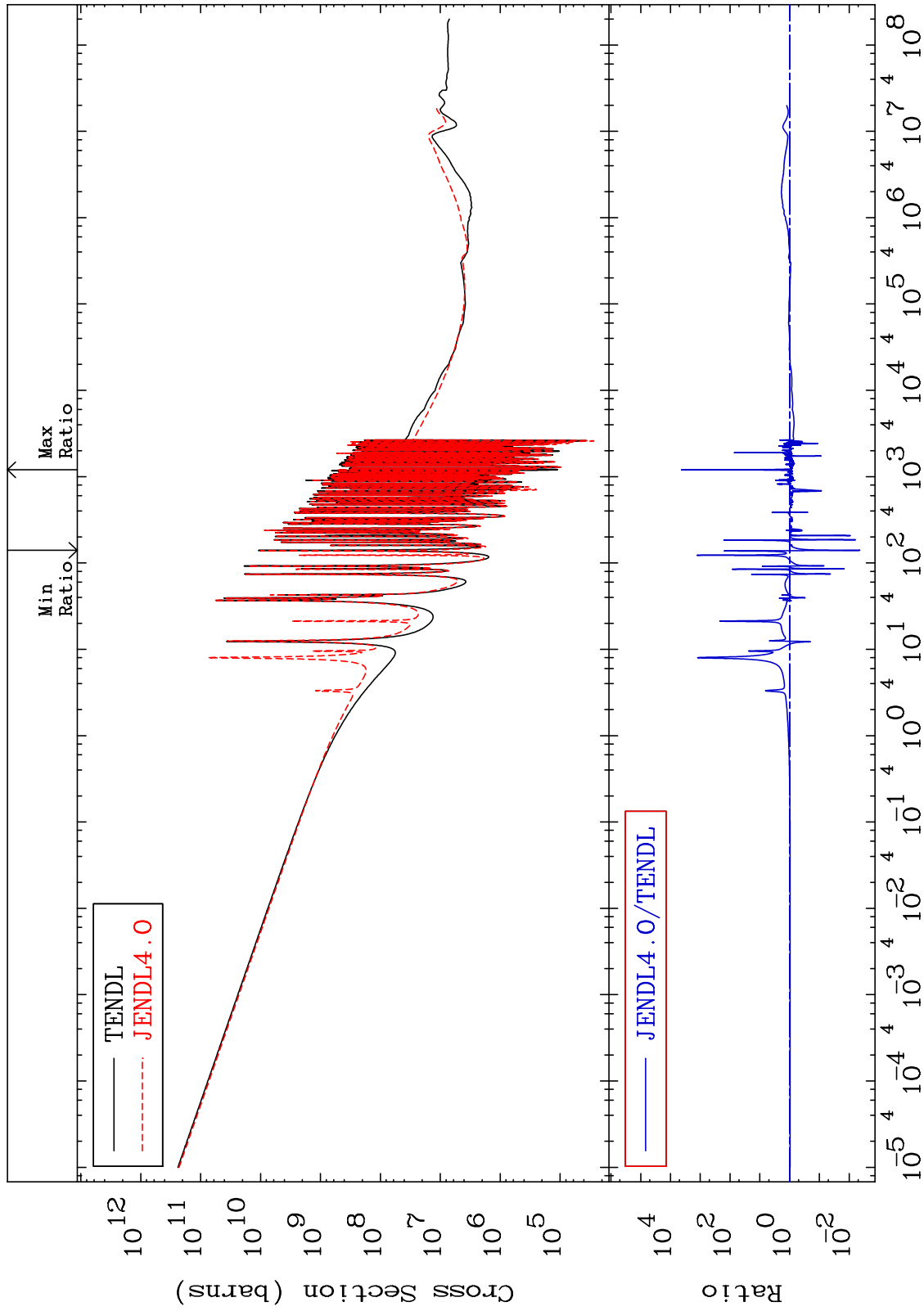
64-Gd-152
-99.34 To 9999. %



MAT 6425

Total photon (eV-barns)
Cross Section

64-Gd-152
-99.56 To 9999. %

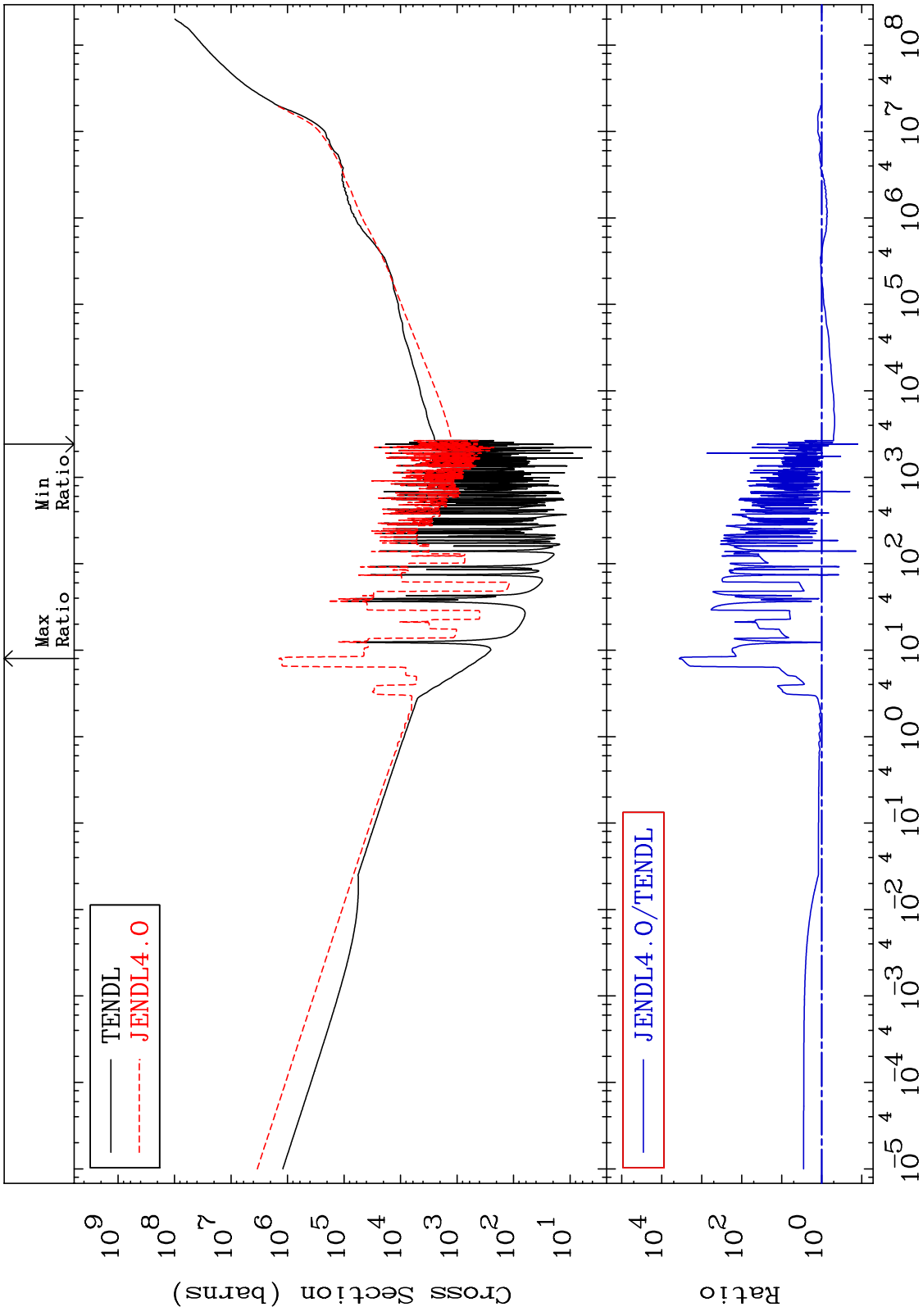


62

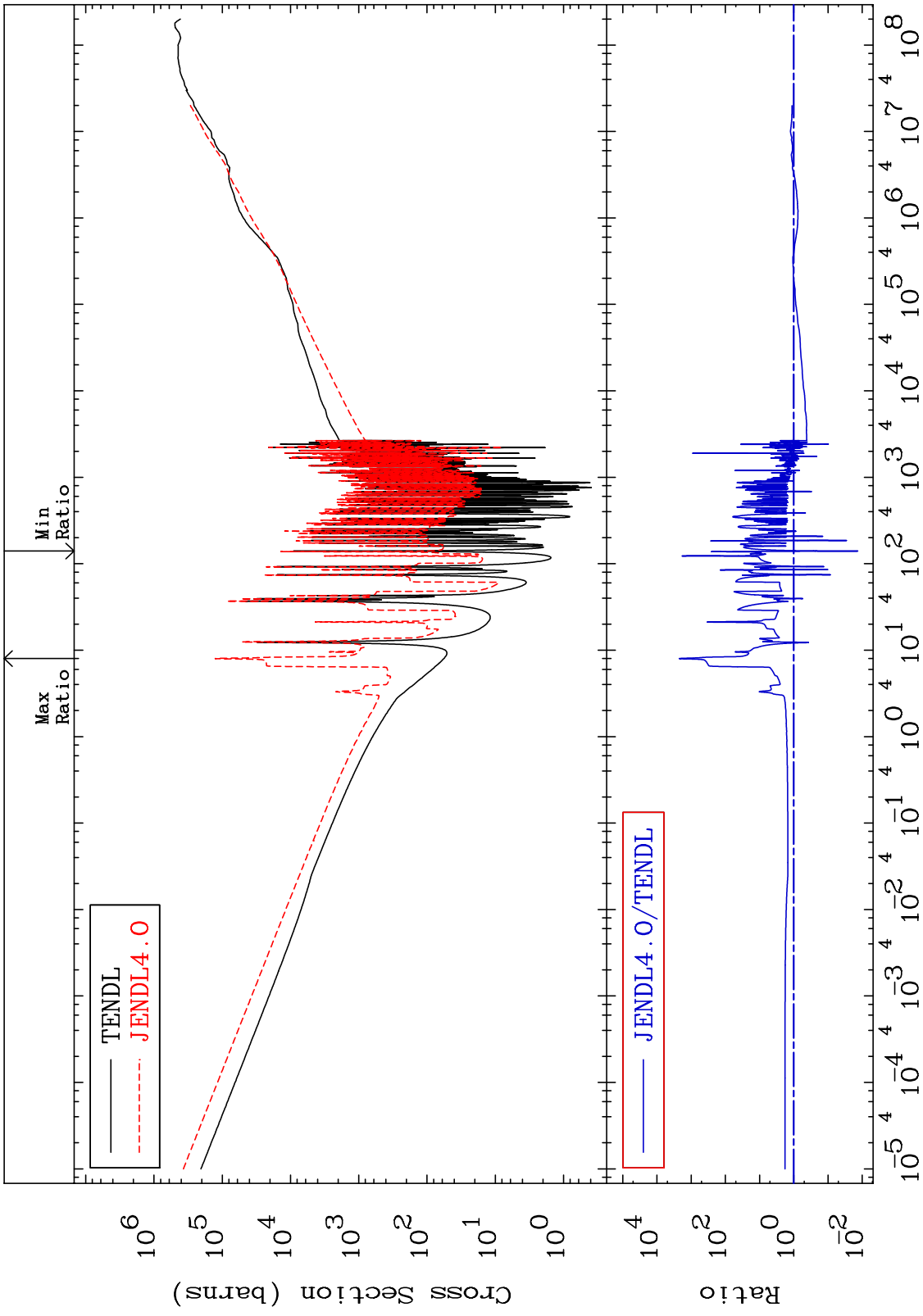
Incident Energy (eV)

64-Gd-152

MAT 6425 Total kinematic kerma (high limit) 64-Gd-152
 Cross Section -87.52 To 9999. %

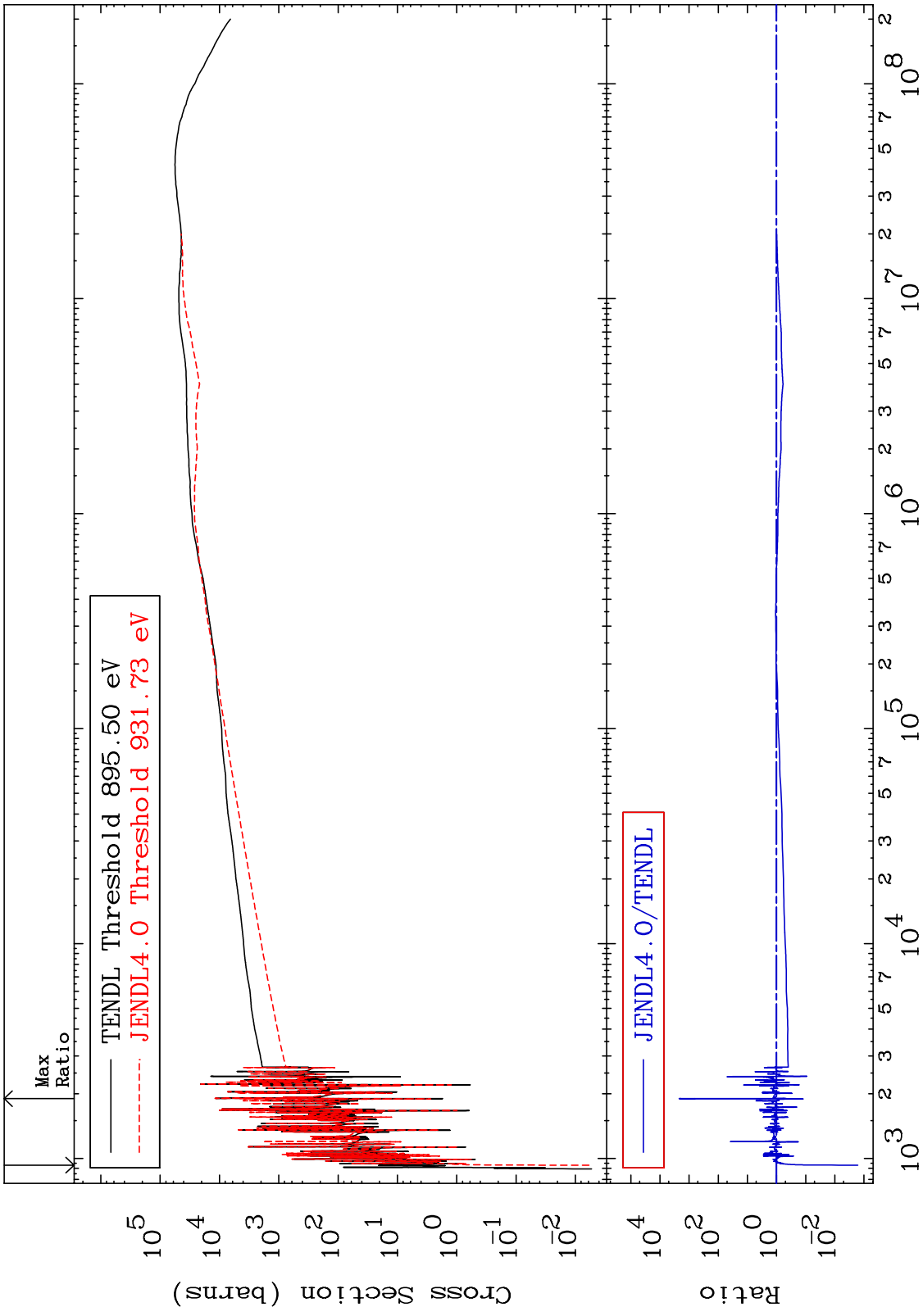


MAT 6425 Dpa total (eV-barns) 64-Gd-152
Cross Section -98.65 To 9999. %



64 Incident Energy (eV) 64-Gd-152

MAT 6425 Dpa elastic (mt2) 64-Gd-152
Cross Section -99.84 To 9999. %

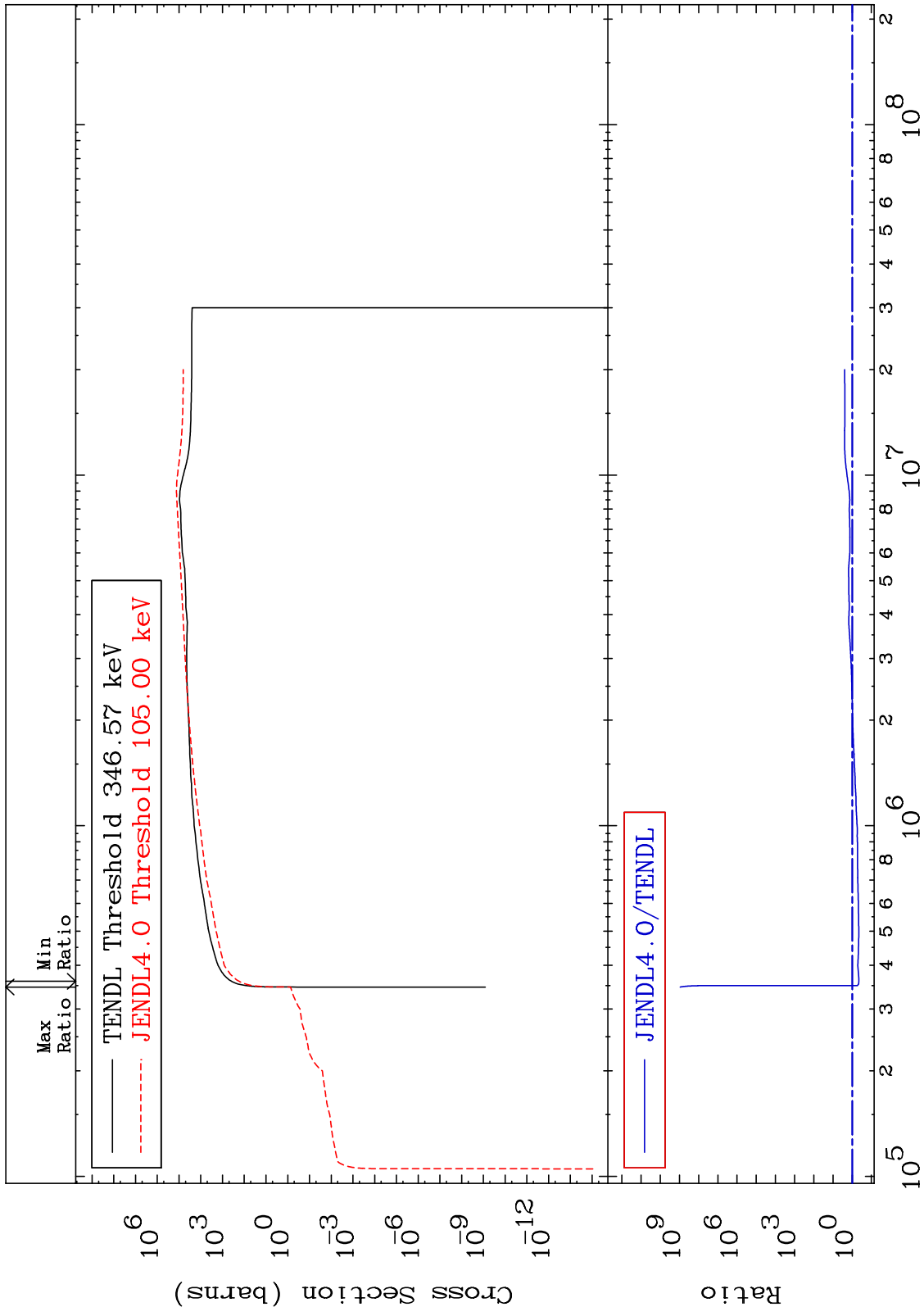


65 64-Gd-152

MAT 6425

Dpa inelastic (mt51-91)
Cross Section

64-Gd-152
-55.17 To 9999. %



66

Incident Energy (eV)

64-Gd-152

MAT 6425 Dpa disappearance (mt102 -120) 64-Gd-152
 Cross Section -98.65 To 9999. %

