

Program Complot
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

U.S.A.

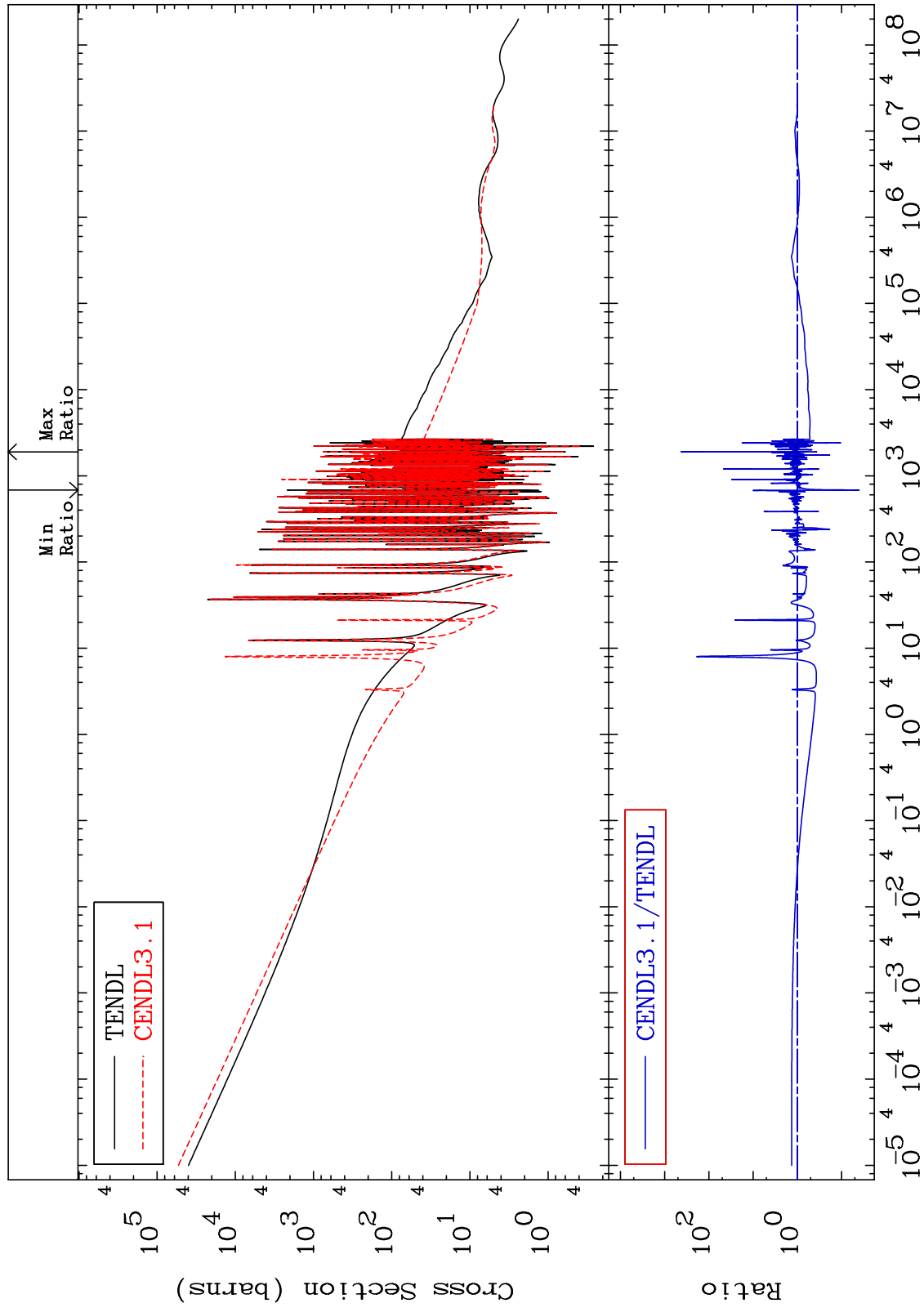
Tele: 925-443-1911

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

Press Mouse Button to Start

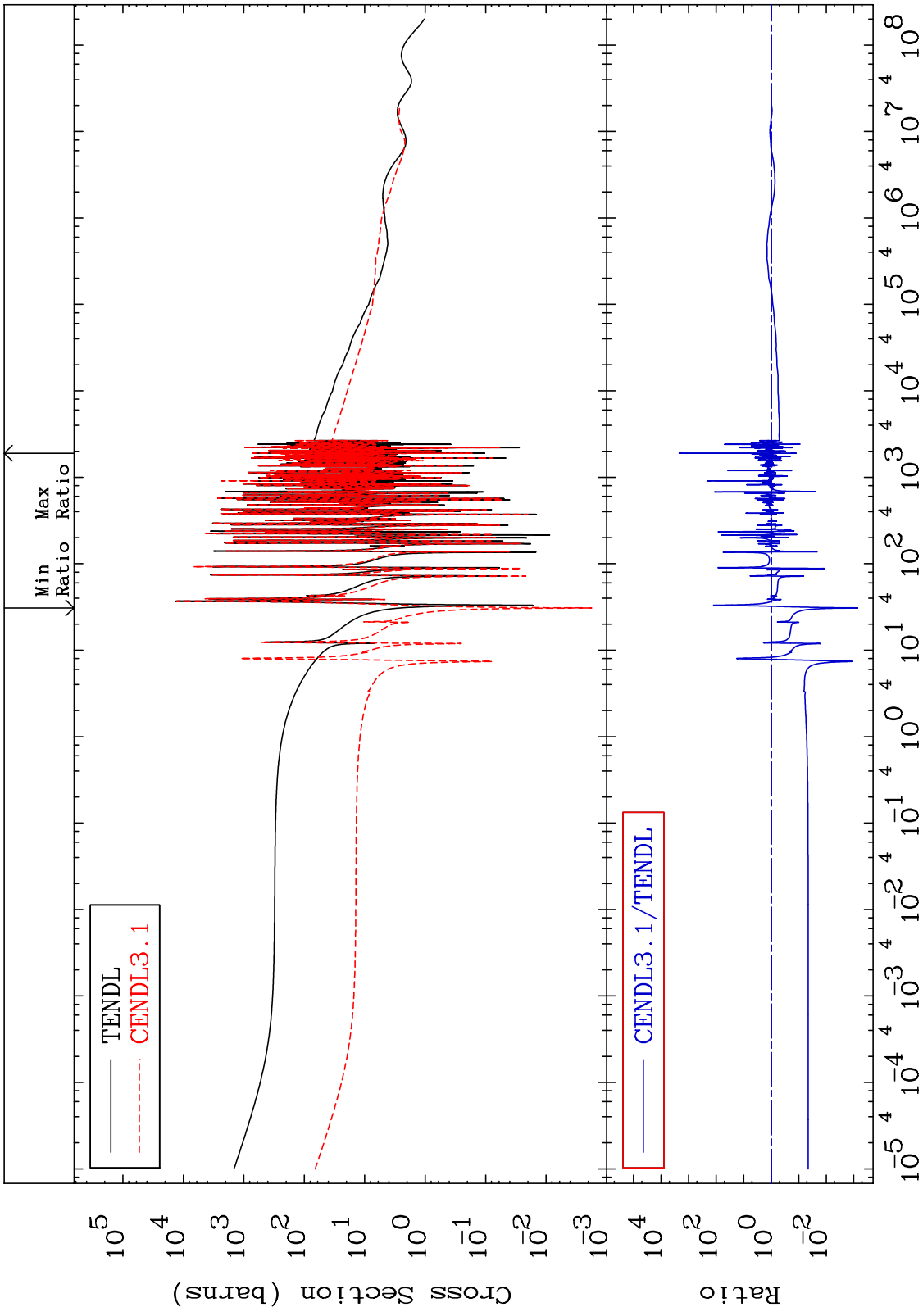
MAT 6425 64-Gd-152 -95.99 To 9999. %

Total Cross Section



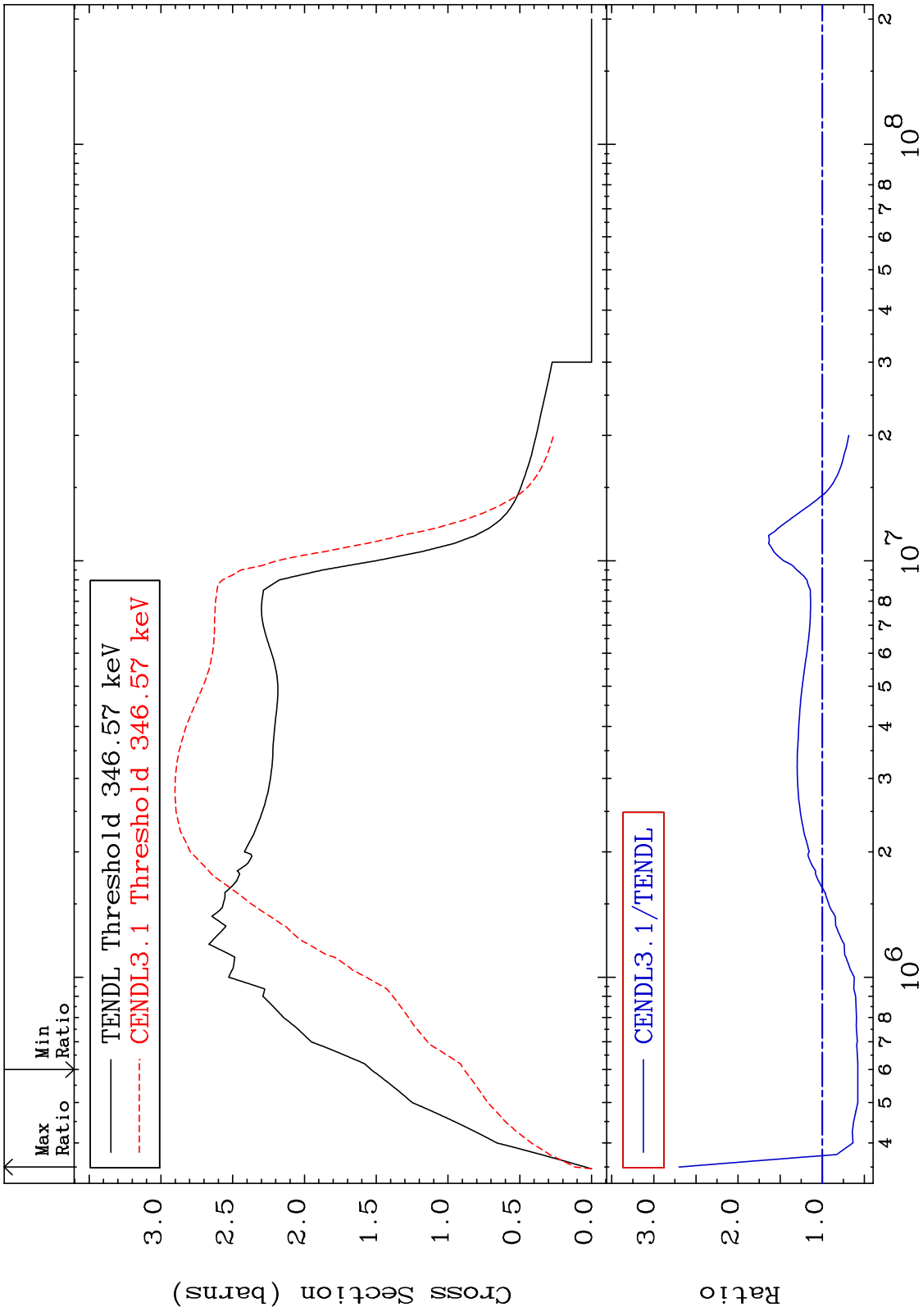
64-Gd-152 Incident Energy (eV)

MAT 6425 Elastic Cross Section 64-Gd-152 -99.93 To 9999. %



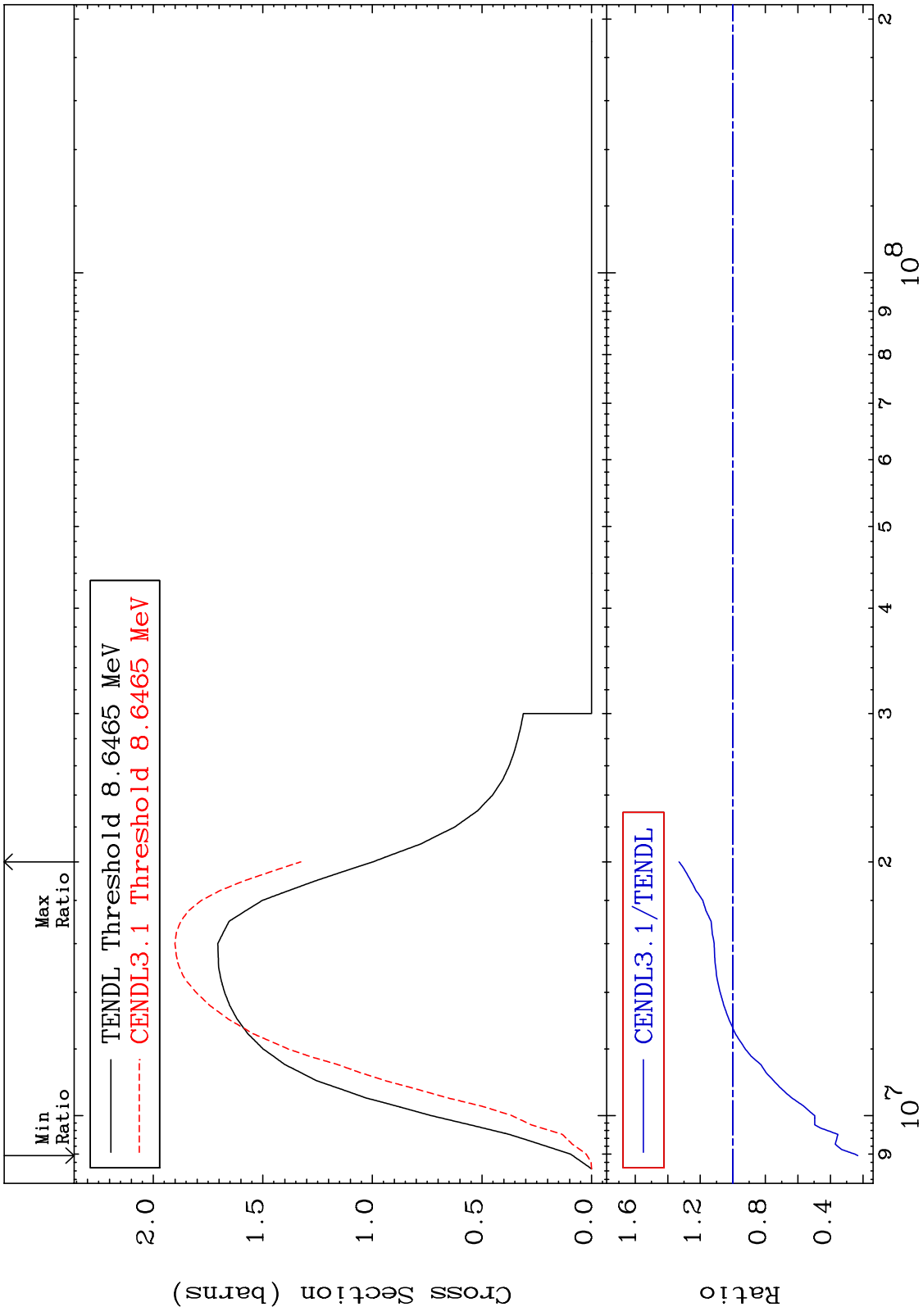
2 64-Gd-152

MAT 6425 Inelastic Cross Section 64-Gd-152 -42.16 To 170.1 %

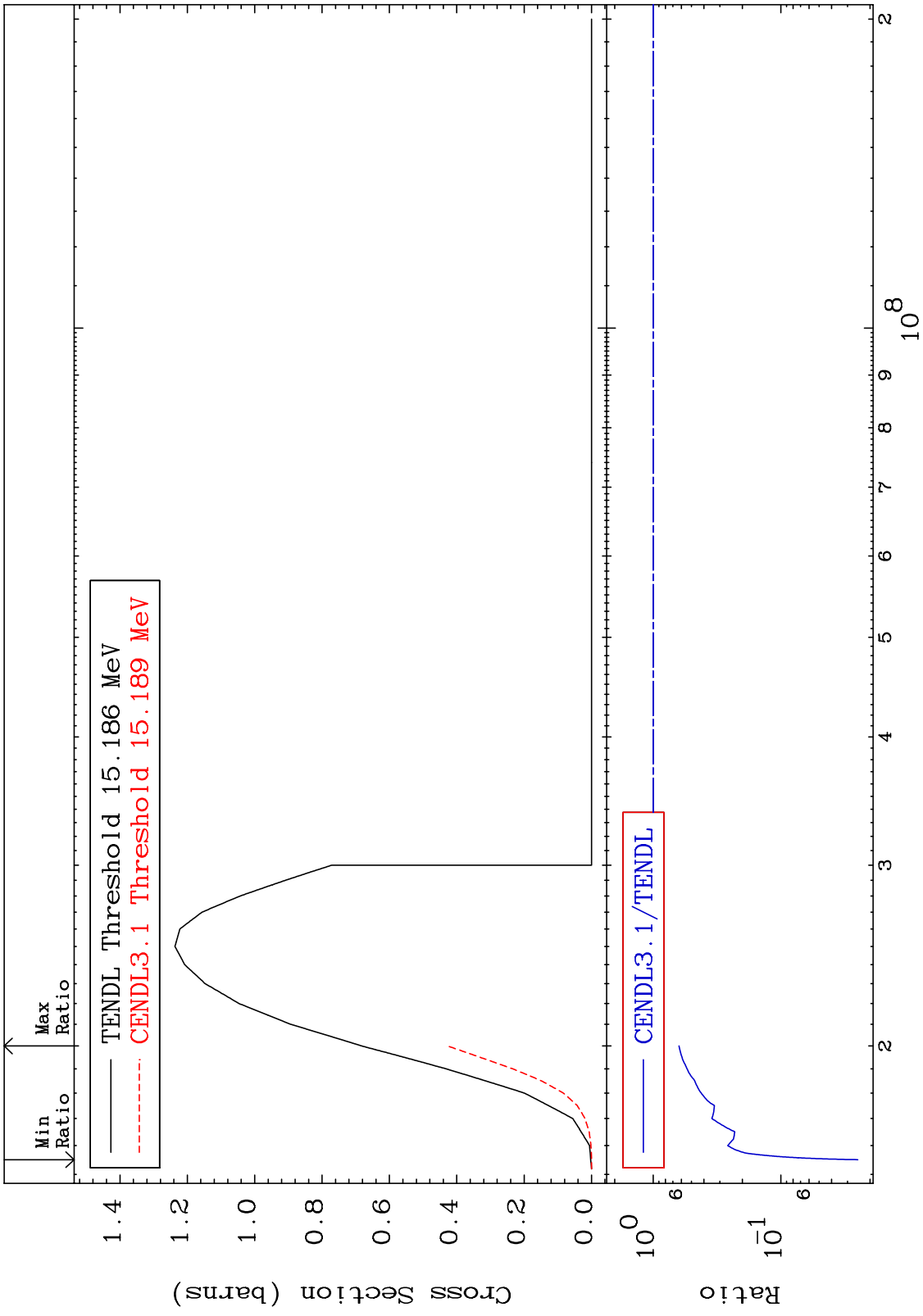


3 64-Gd-152

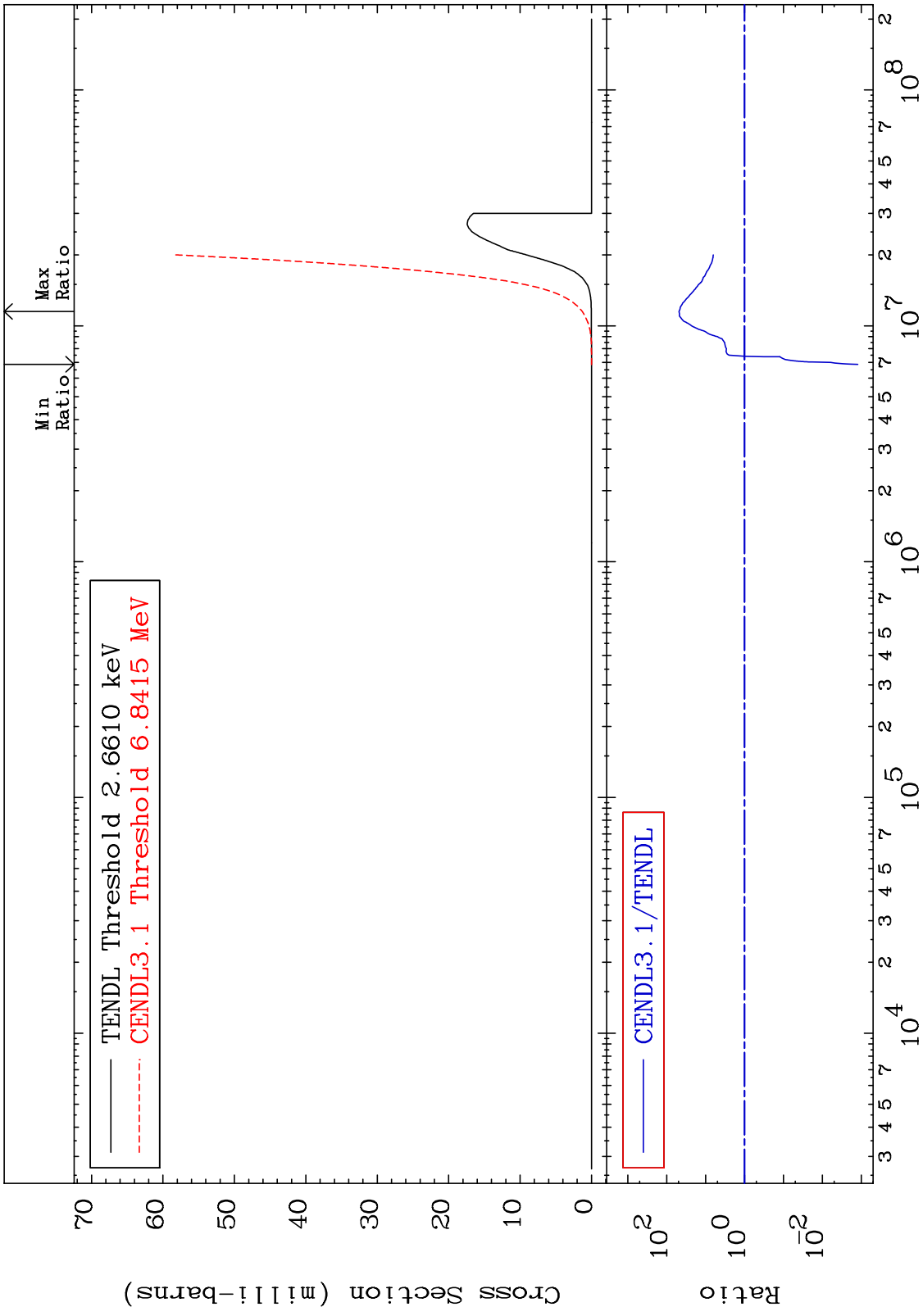
MAT 6425 (n,2n) Cross Section 64-Gd-152 -76.84 To 33.06 %



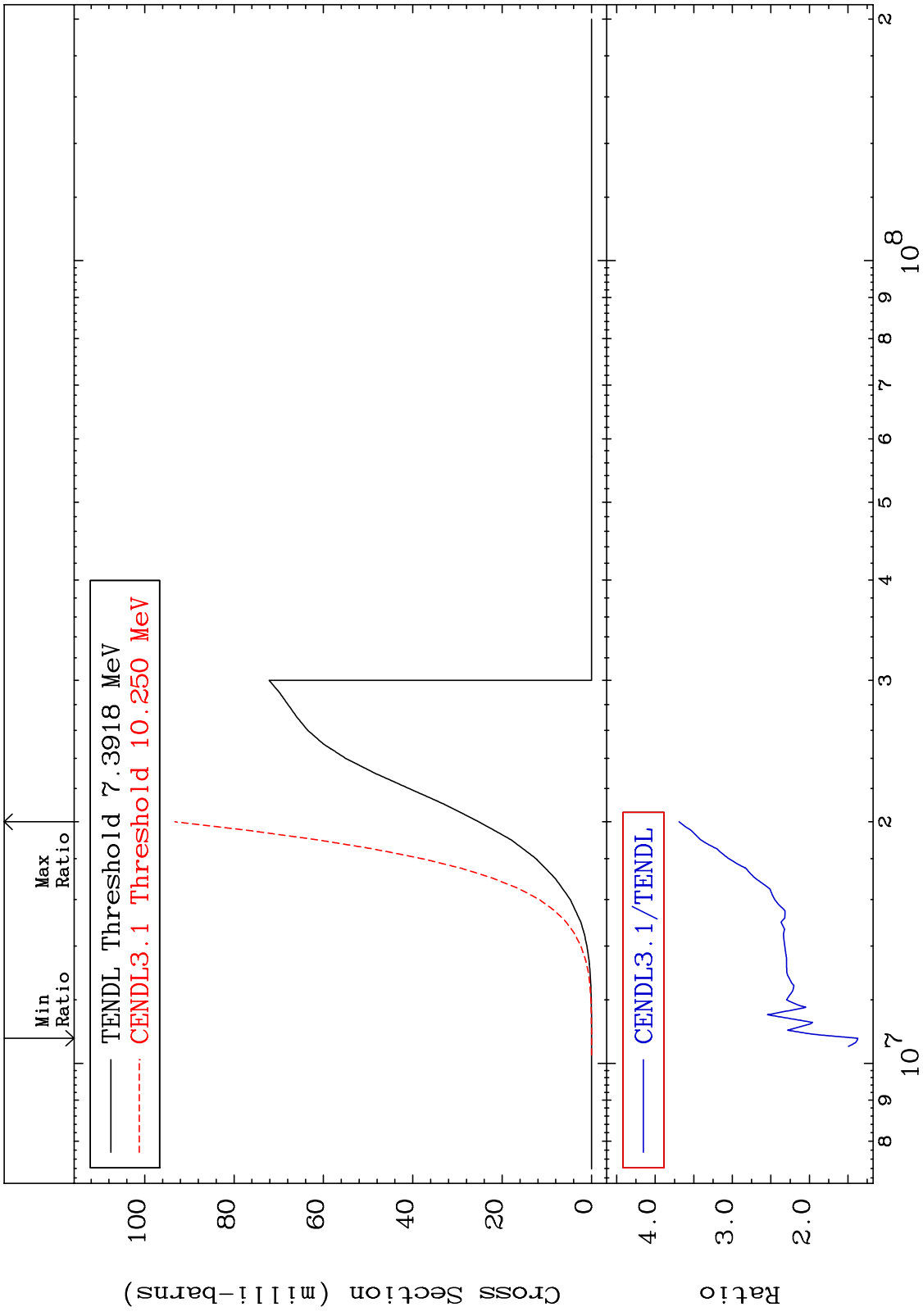
4 64-Gd-152



MAT 6425 $(n, n') \alpha$ Cross Section 64-Gd-152
 -99.88 To 4742. %

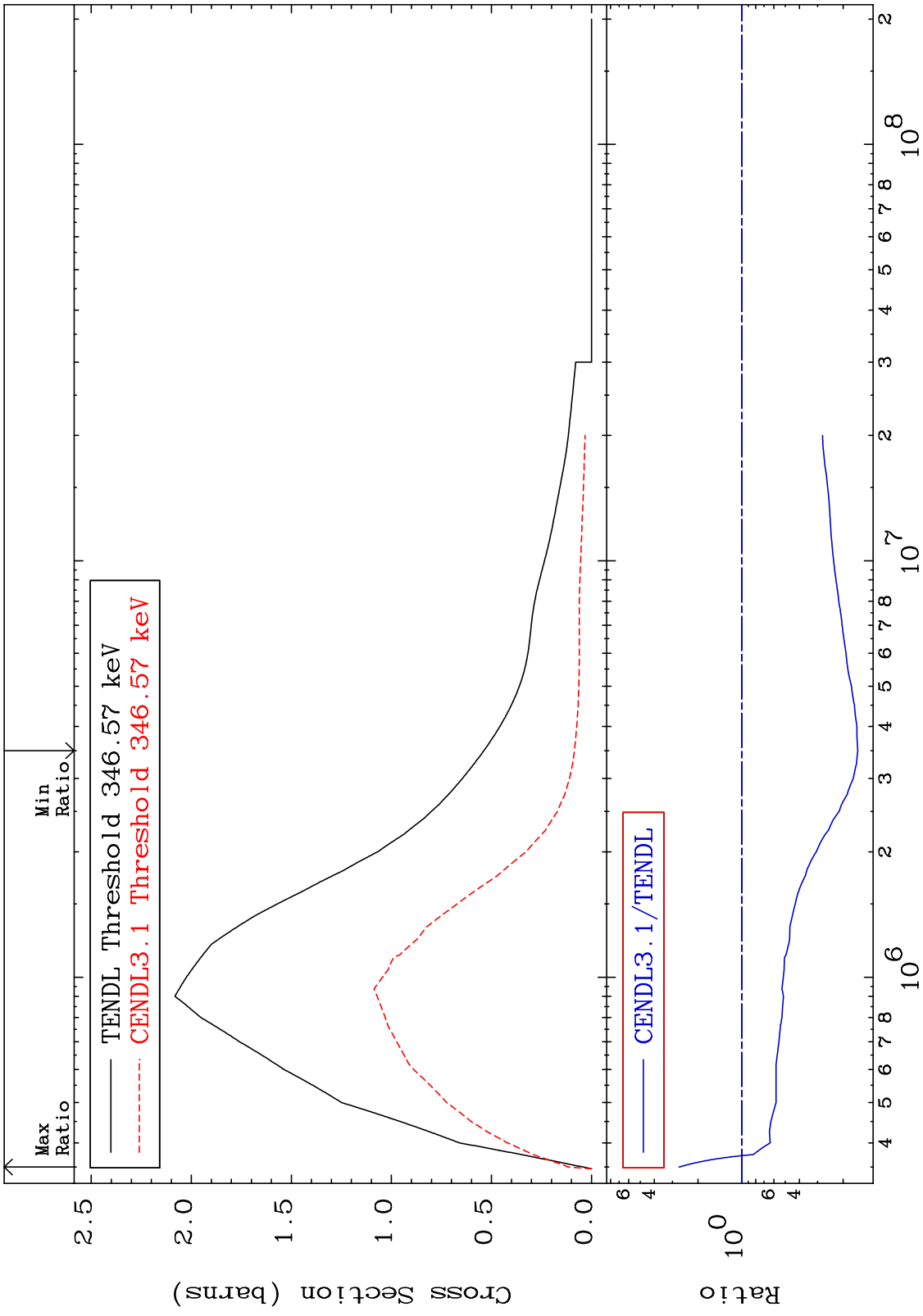


MAT 6425 (n, n') p 64-Gd-152
 Cross Section 37.17 To 269.1 %

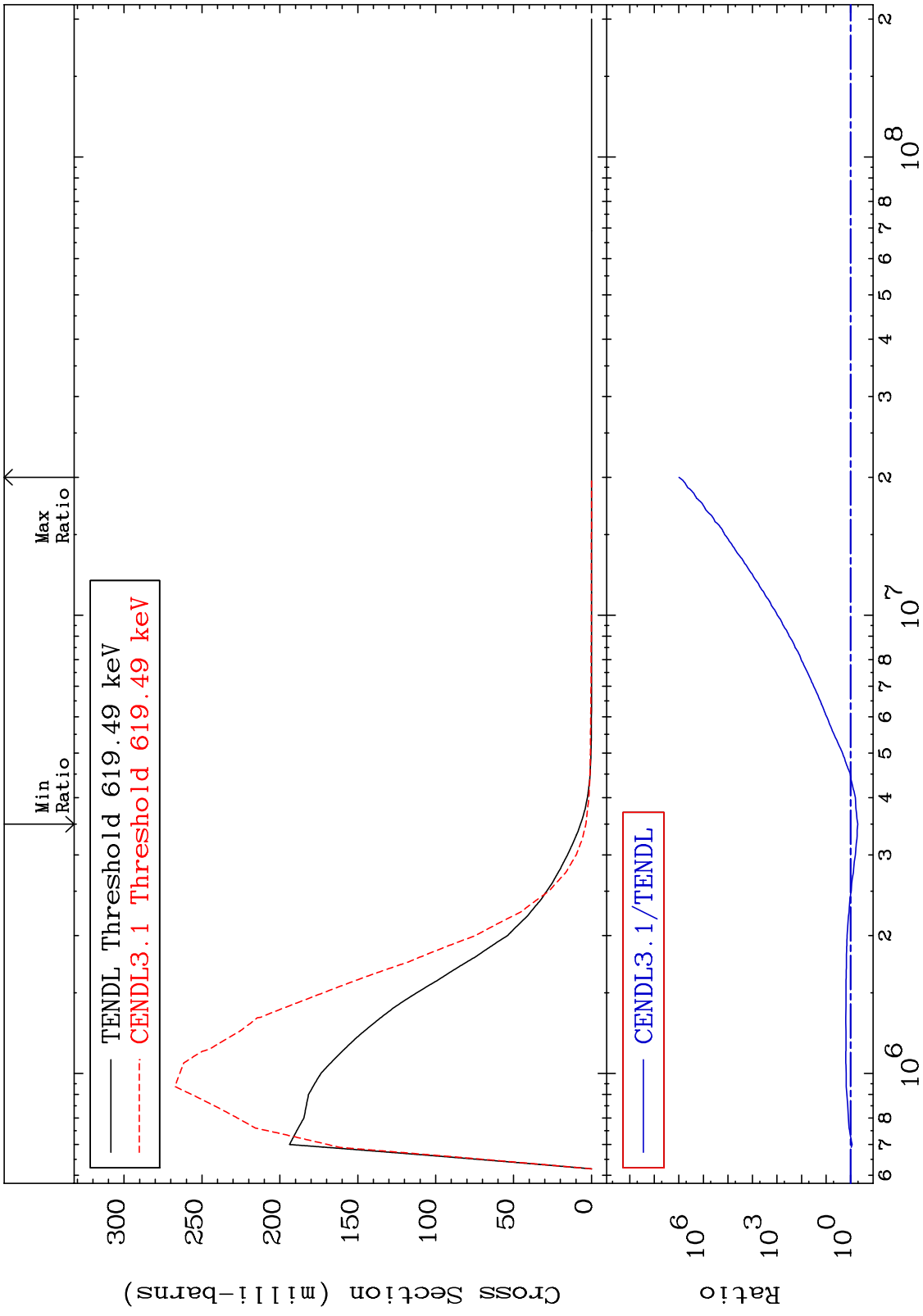


7 8 9 10⁷ 2 3 4 5 6 7 8 9 10⁸ 64-Gd-152

MAT 6425 MT= 51 (n,n') Level Cross Section 64-Gd-152
 -84.19 To 170.1 %

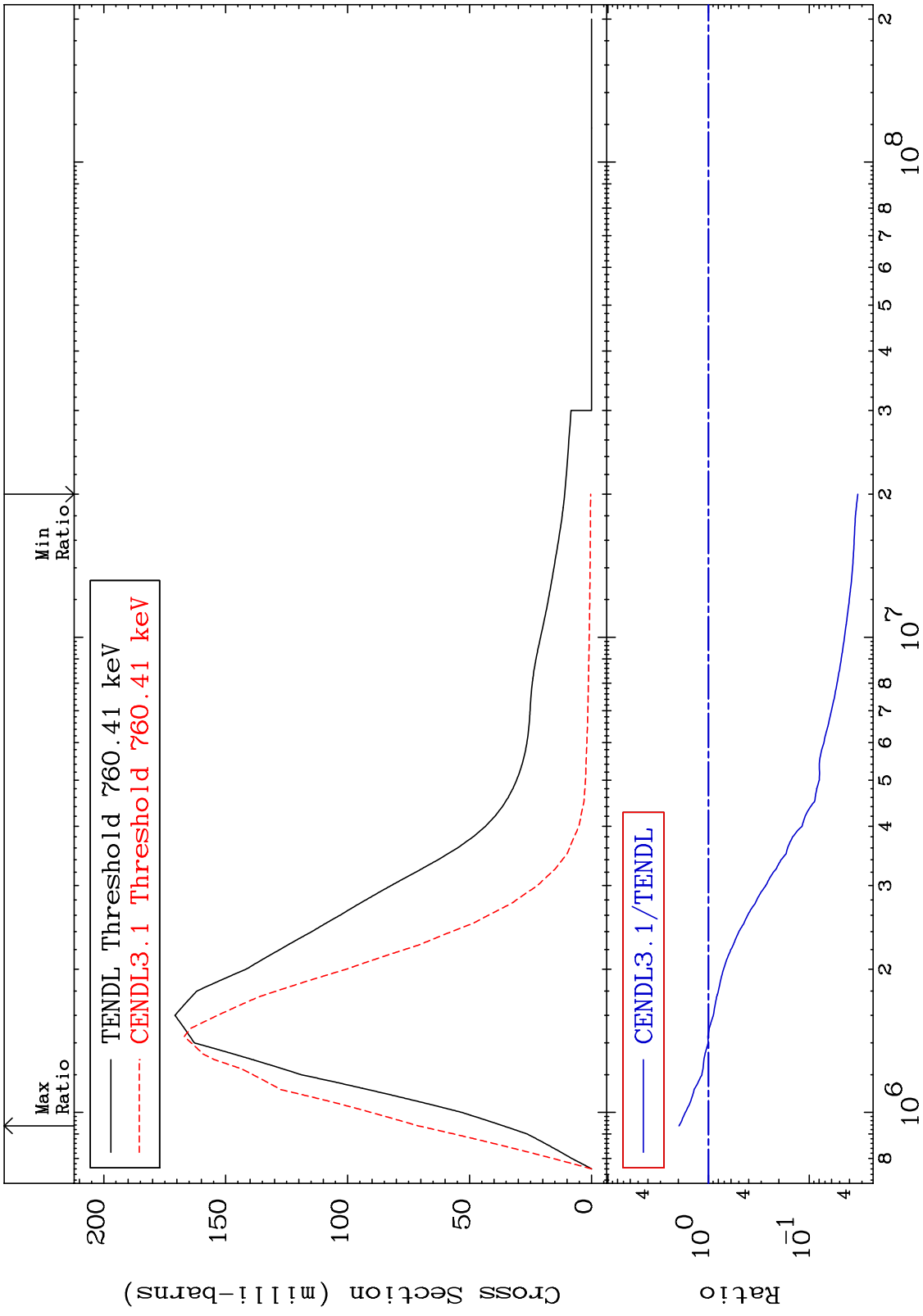


MAT 6425 MT= 52 (n,n') Level Cross Section 64-Gd-152
 -49.28 To 9999. %



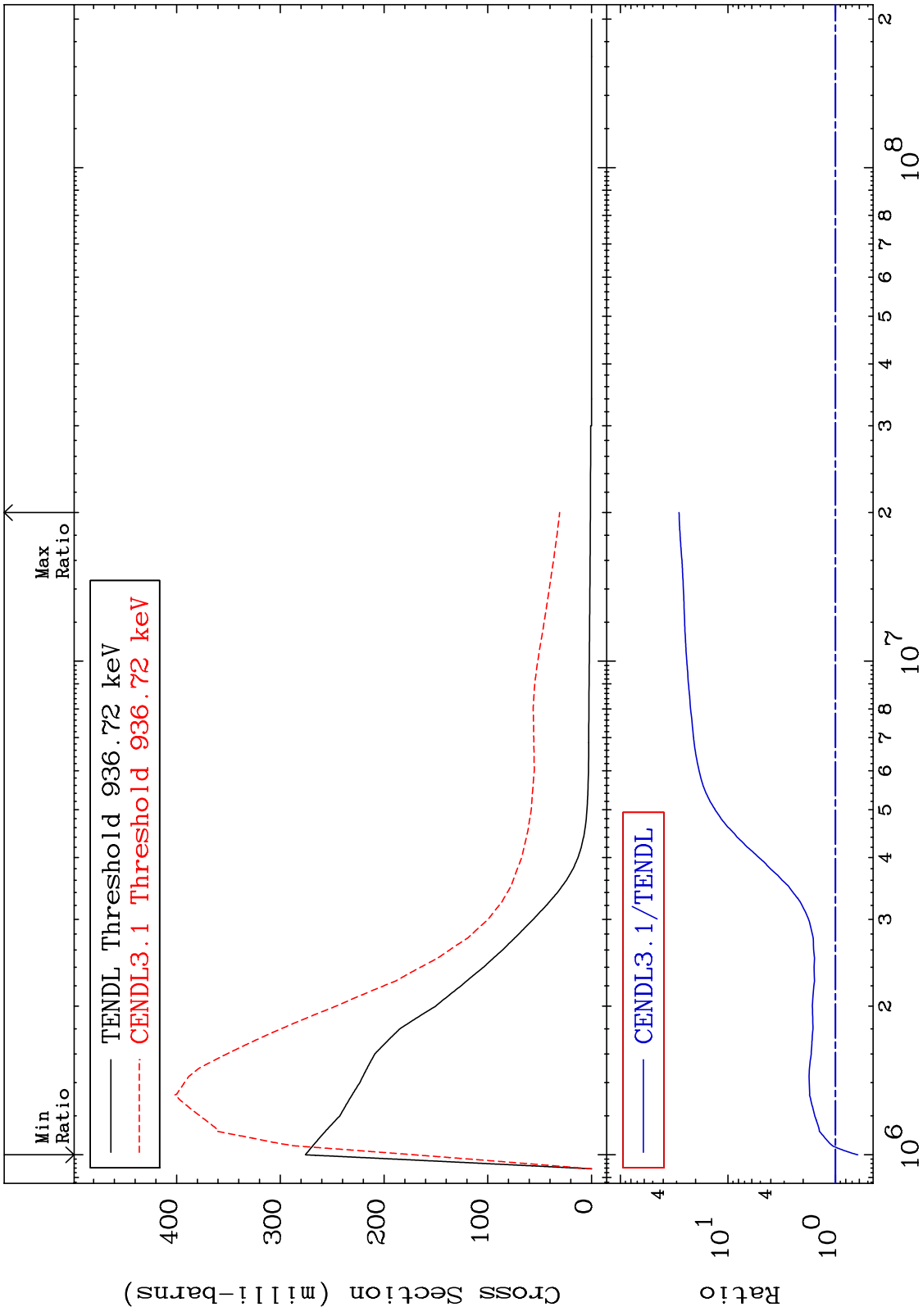
9 Incident Energy (eV) 64-Gd-152

MAT 6425 MT= 53 (n,n') Level Cross Section 64-Gd-152
 -96.70 To 96.33 %



Incident Energy (eV) 64-Gd-152

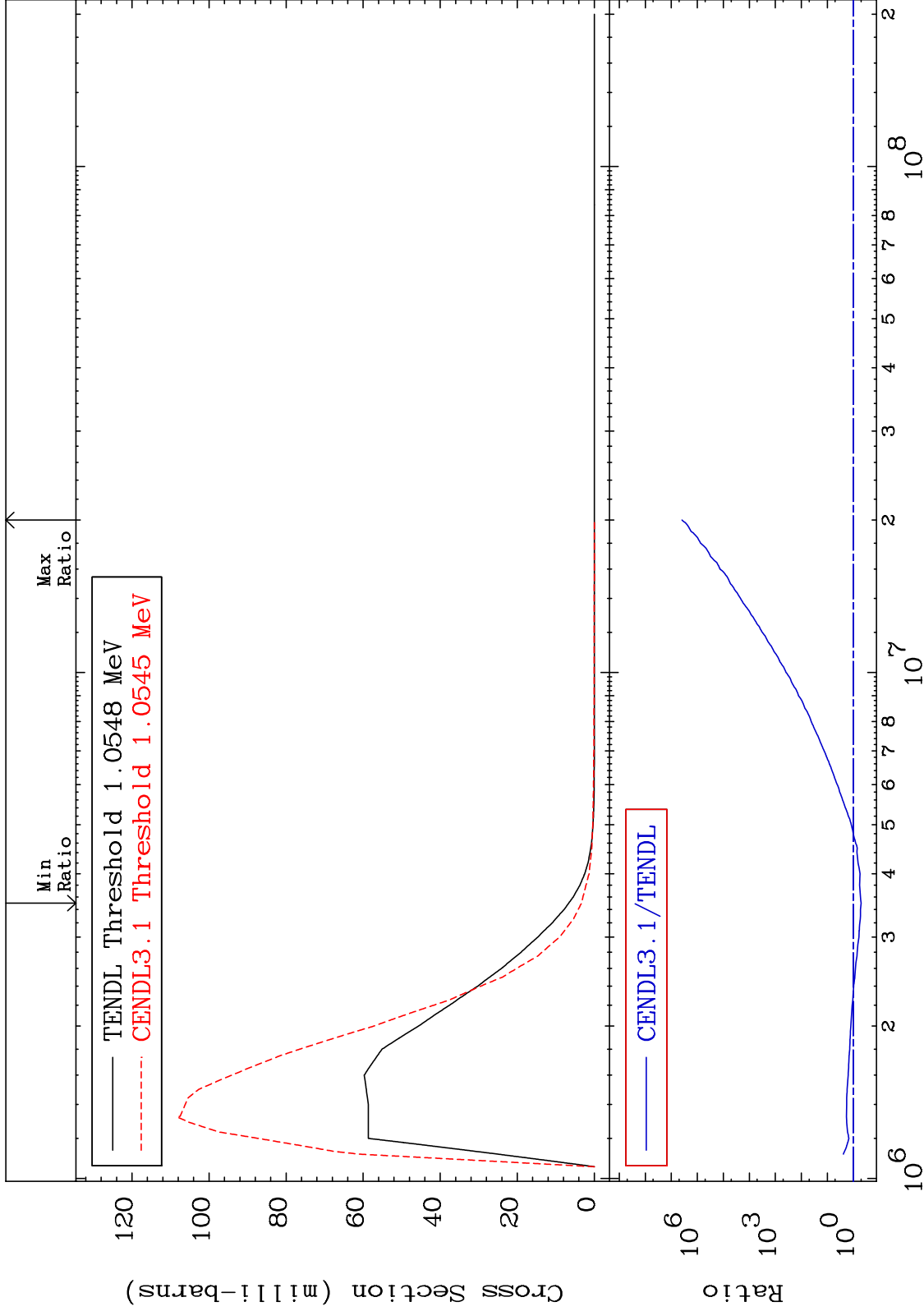
MAT 6425 MT= 54 (n,n') Level Cross Section 64-Gd-152
 -38.08 To 2752. %



MAT 6425

MT= 55 (n,n') Level
Cross Section

64-Gd-152
-49.98 To 9999. %

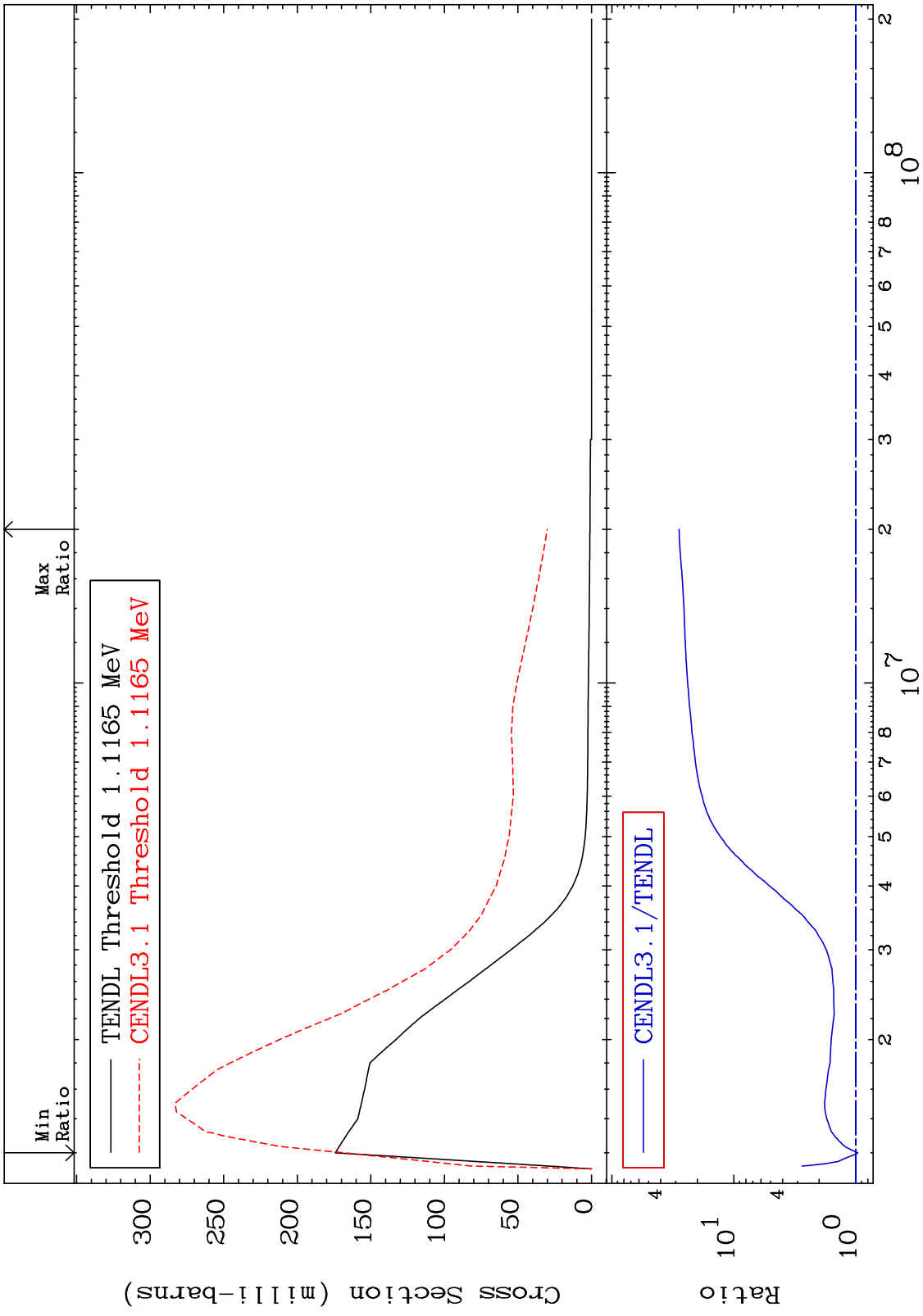


12

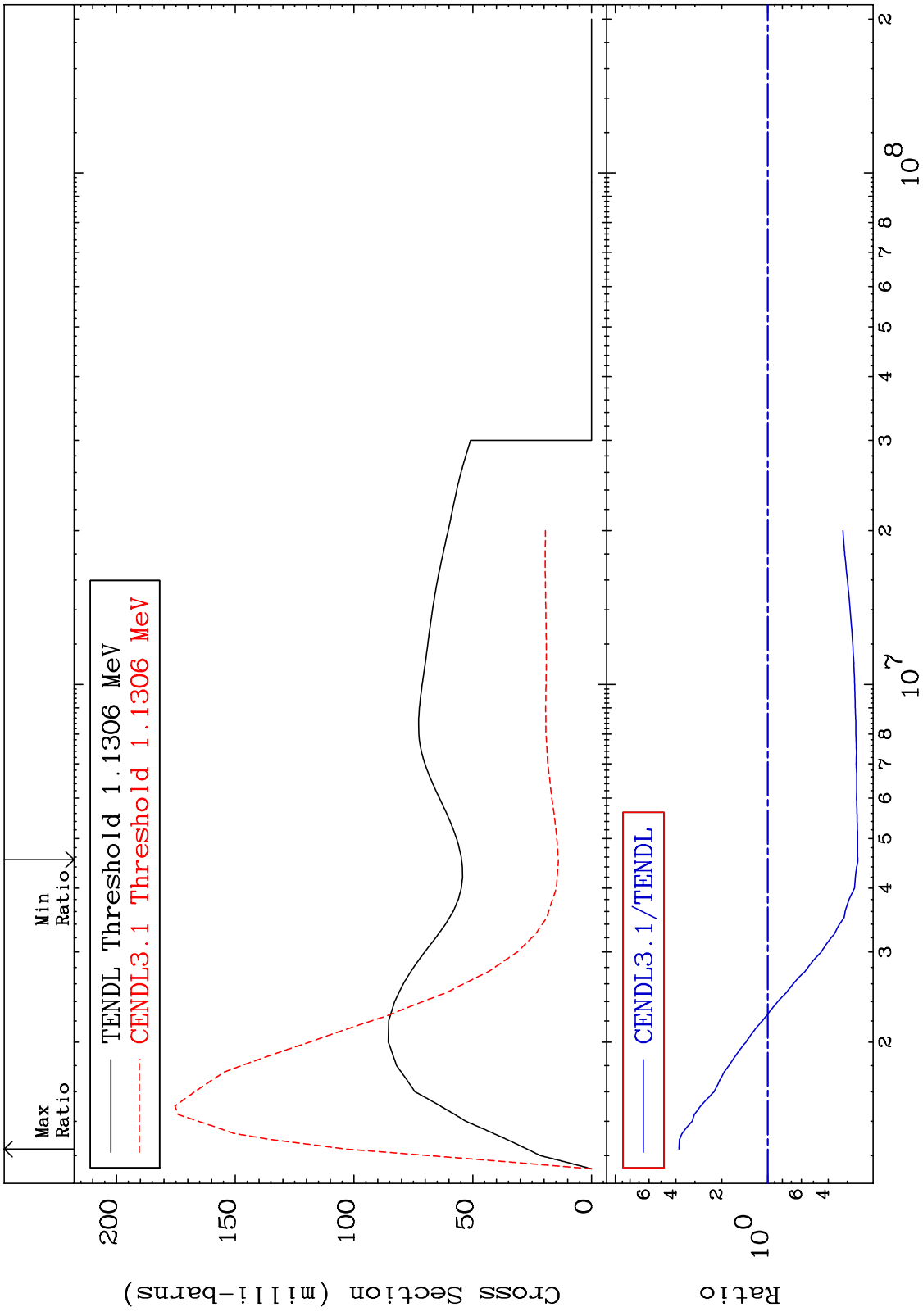
Incident Energy (eV)

64-Gd-152

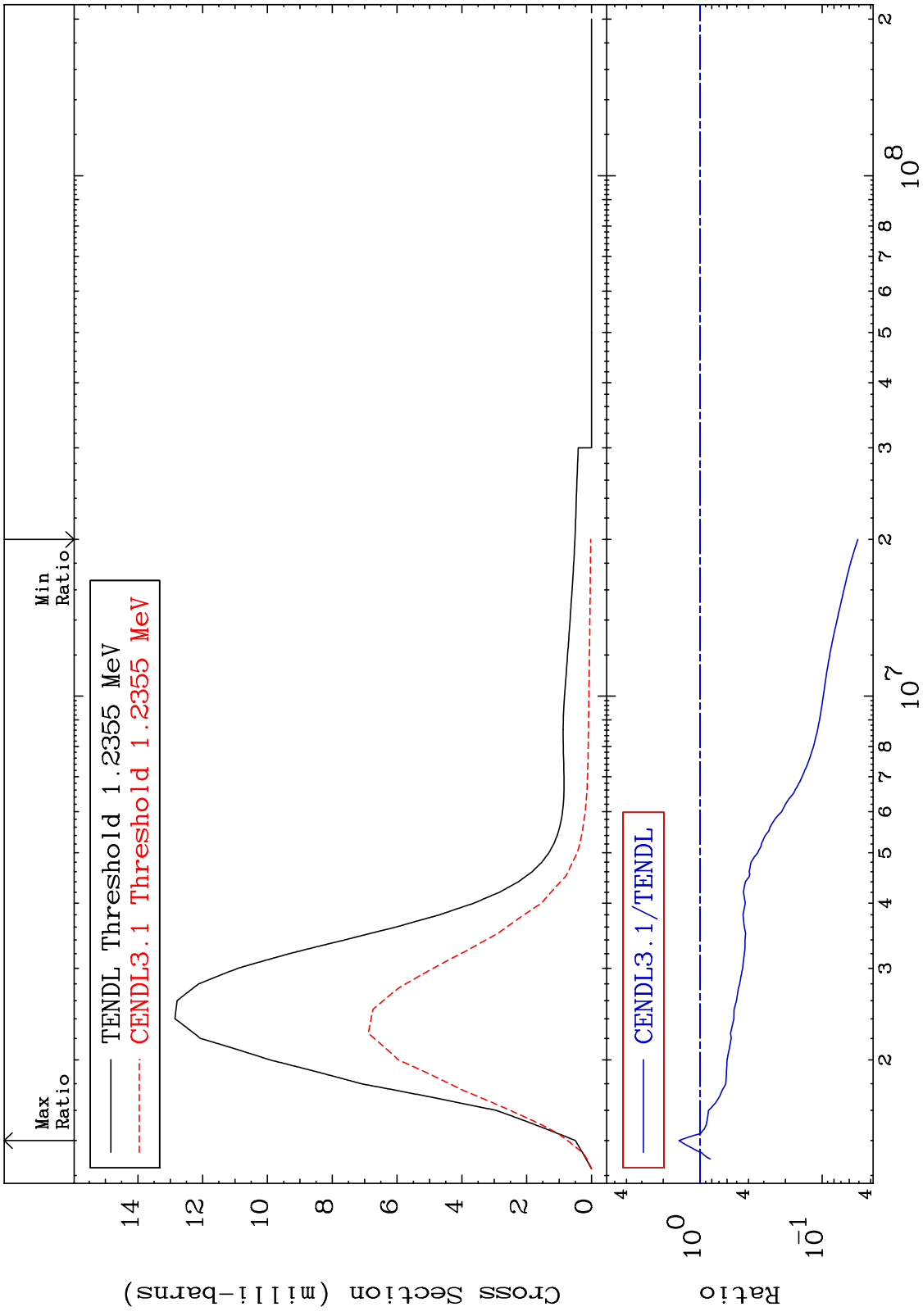
MAT 6425 MT= 56 (n,n') Level Cross Section 64-Gd-152
 -3.545 To 2719. %



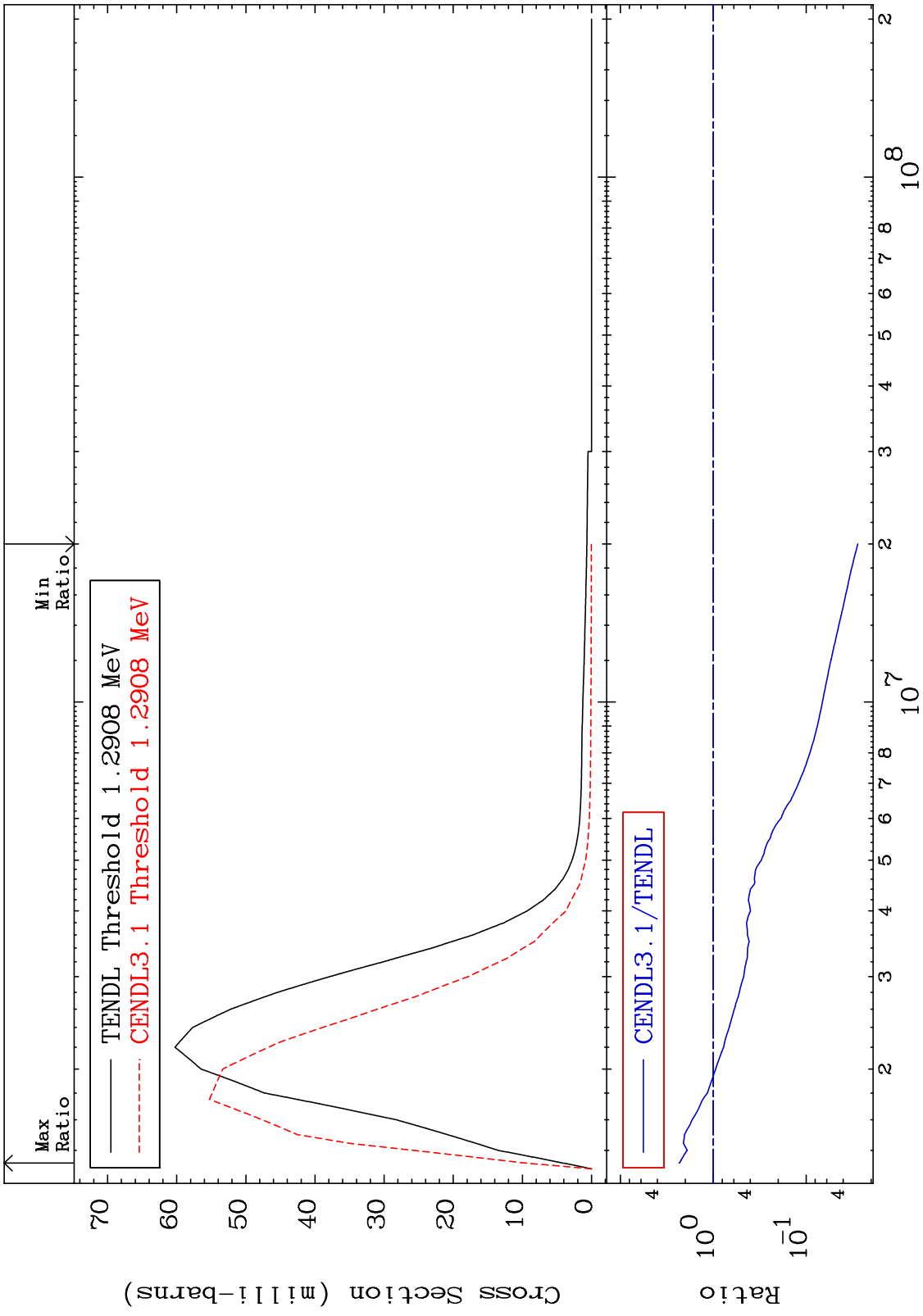
MAT 6425 MT= 57 (n,n') Level Cross Section 64-Gd-152
 -74.41 To 281.5 %



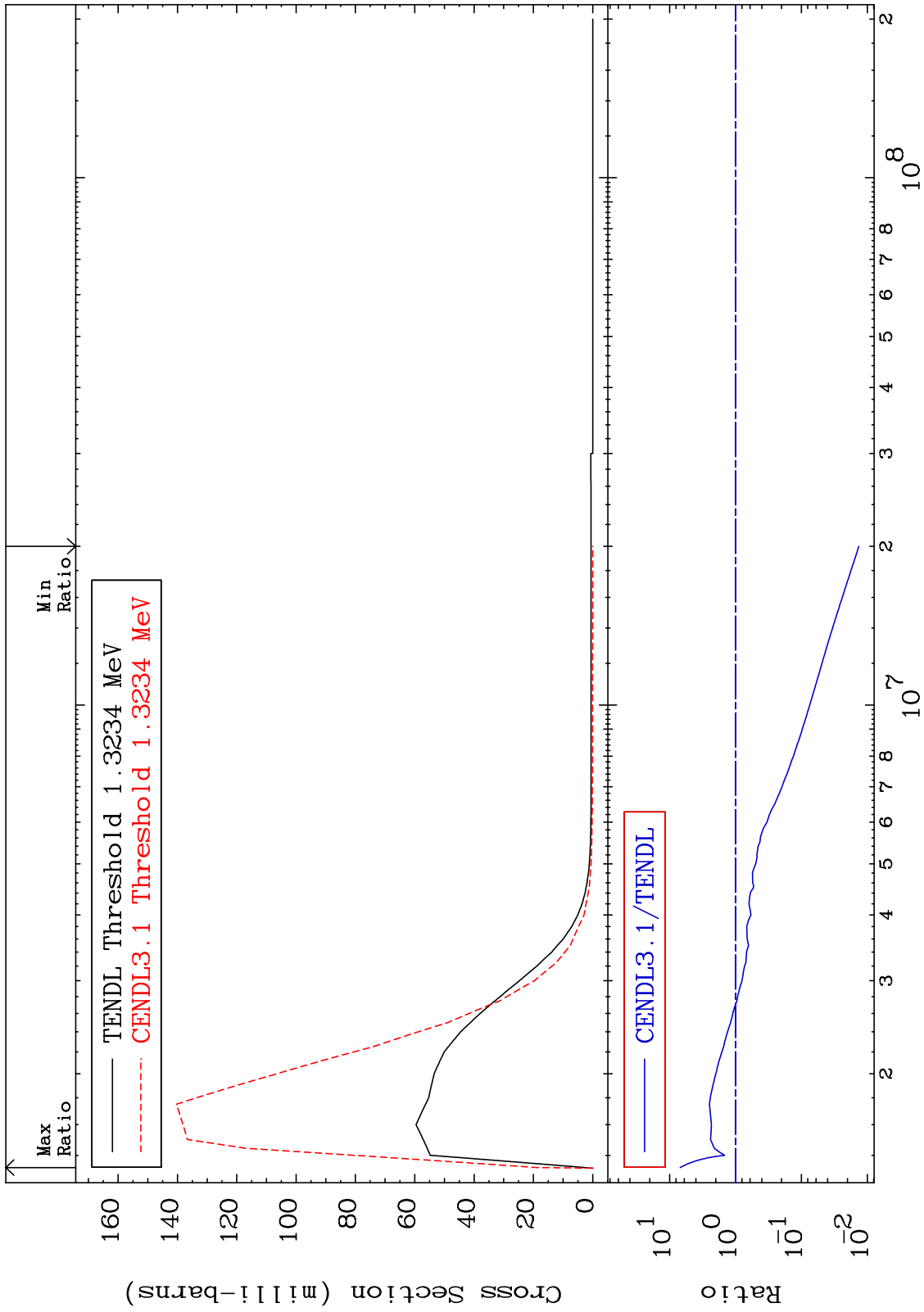
MAT 6425 MT= 58 (n,n') Level Cross Section 64-Gd-152 -94.90 To 48.48 %



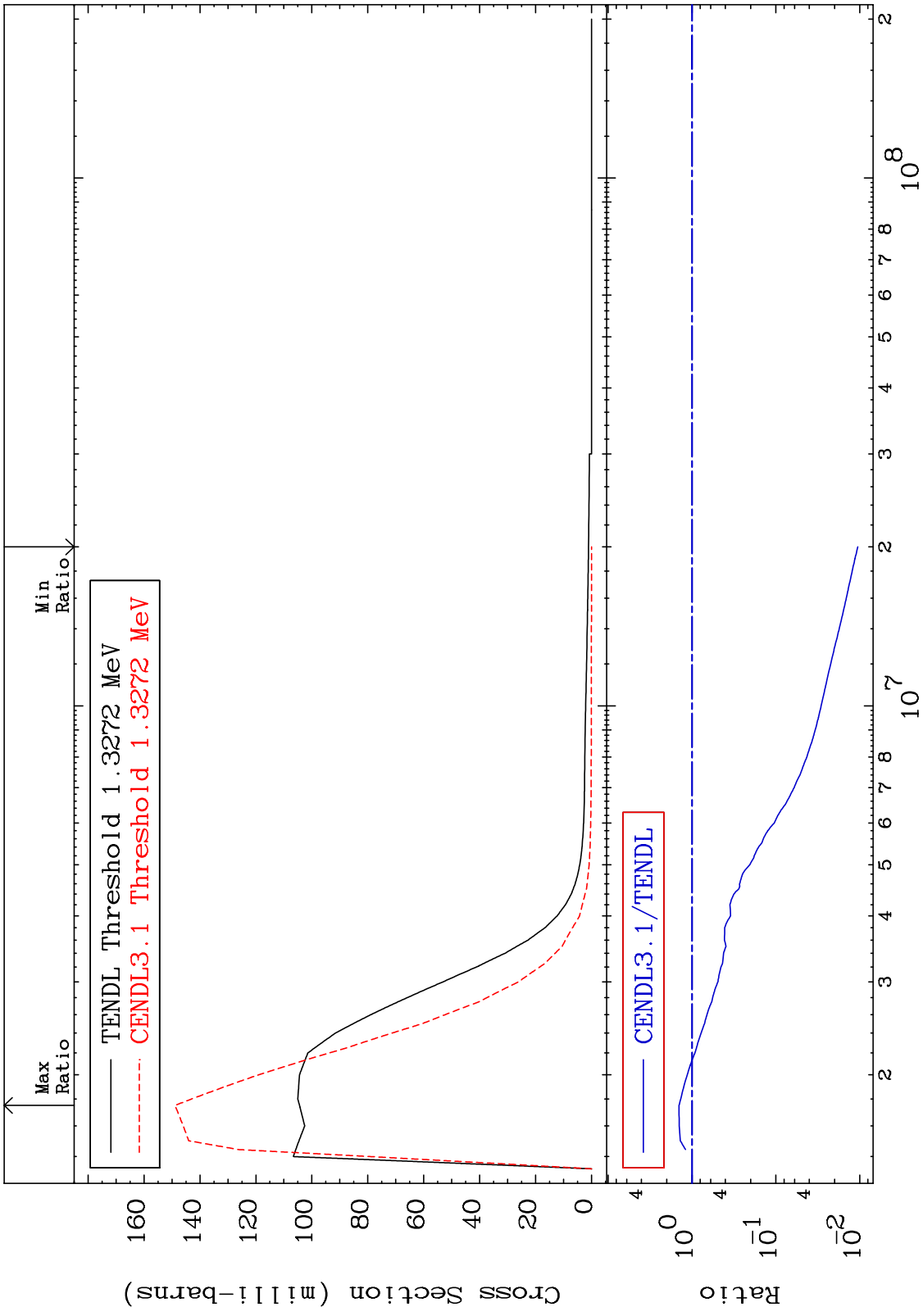
MAT 6425 MT= 59 (n,n') Level Cross Section 64-Gd-152 -97.22 To 133.5 %



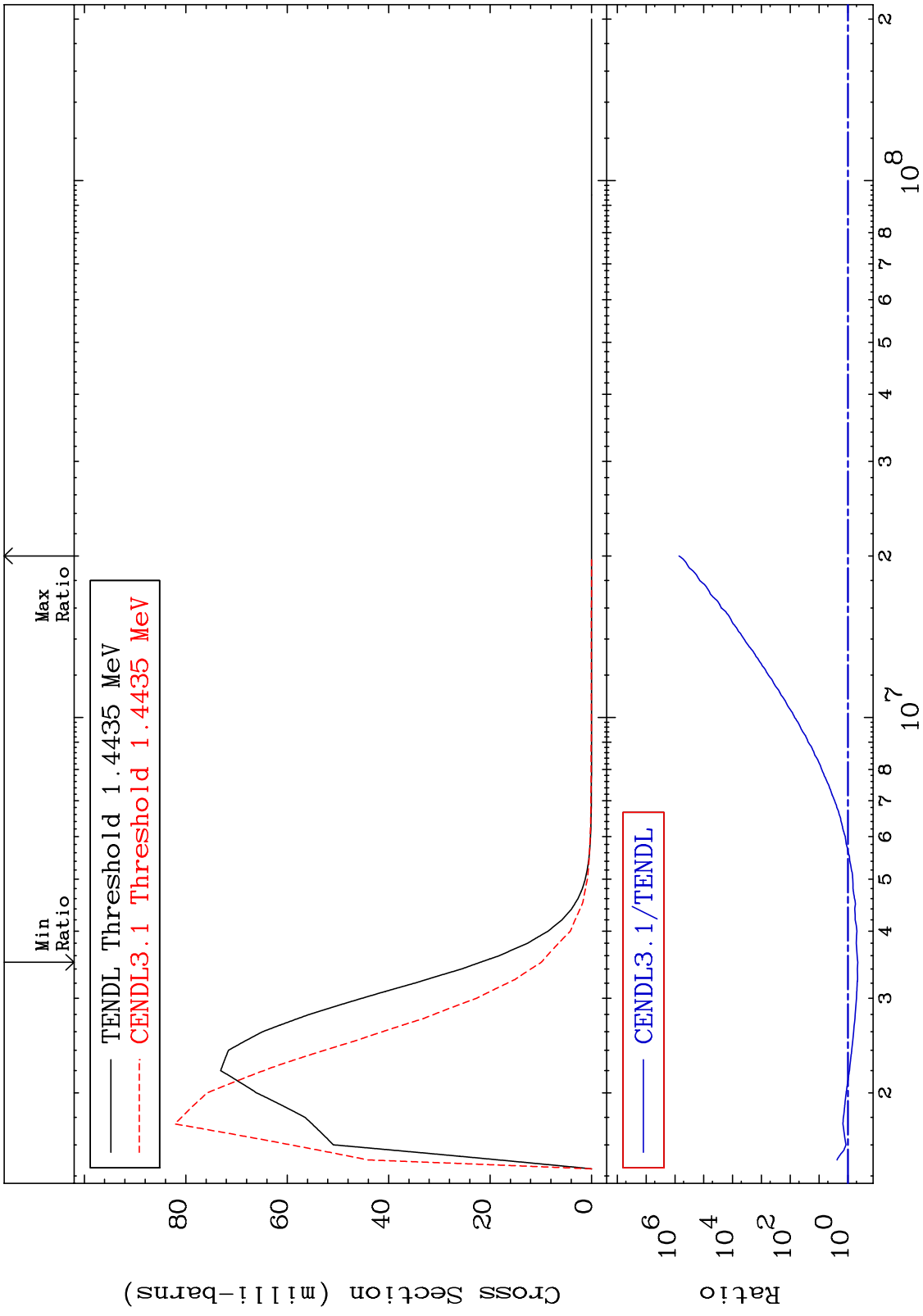
MAT 6425 MT= 60 (n,n') Level Cross Section 64-Gd-152 -98.66 To 590.8 %

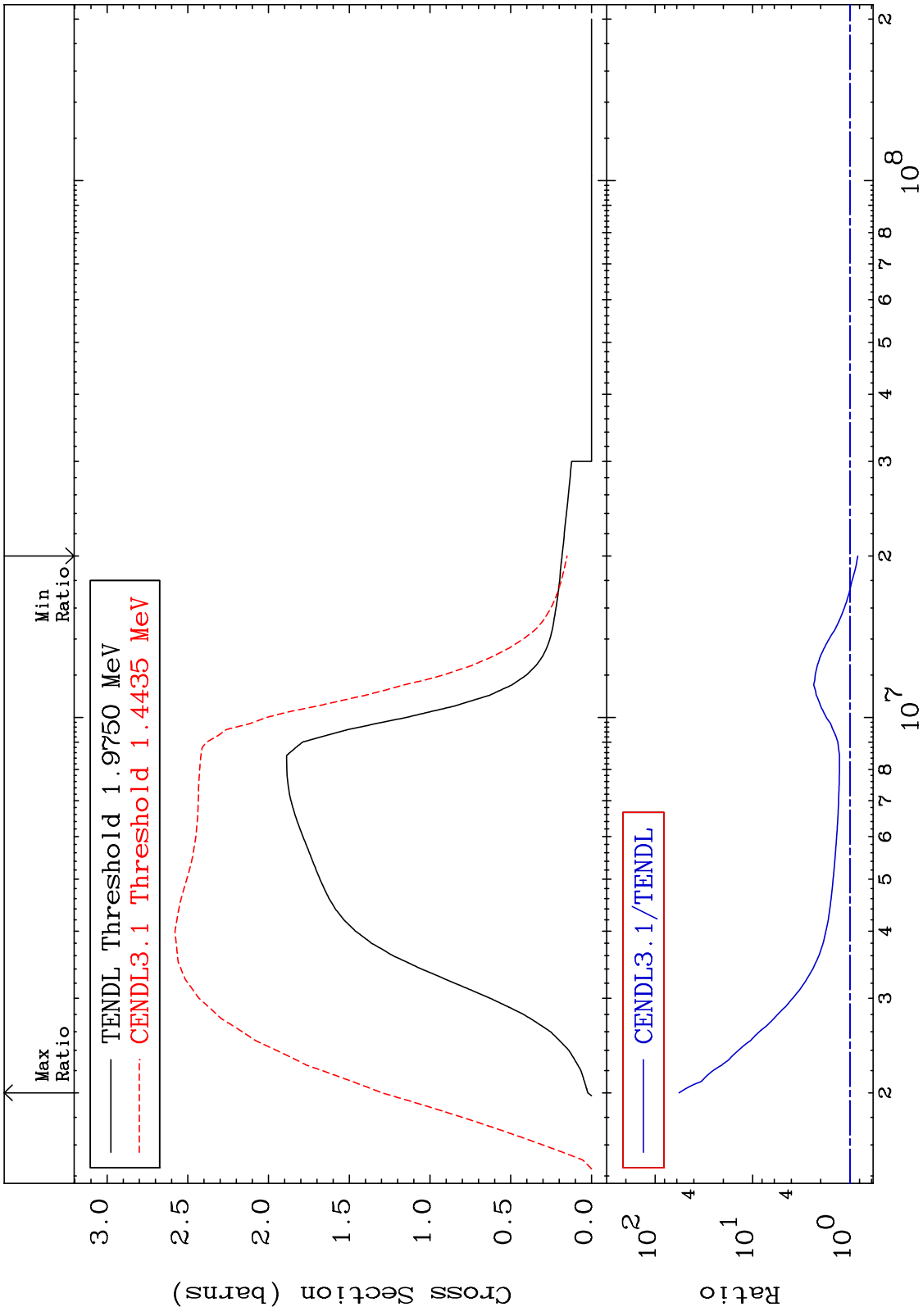


MAT 6425 MT= 61 (n,n') Level Cross Section 64-Gd-152 -98.94 To 42.68 %



MAT 6425 MT= 62 (n,n') Level Cross Section 64-Gd-152
 -54.78 To 9999. %





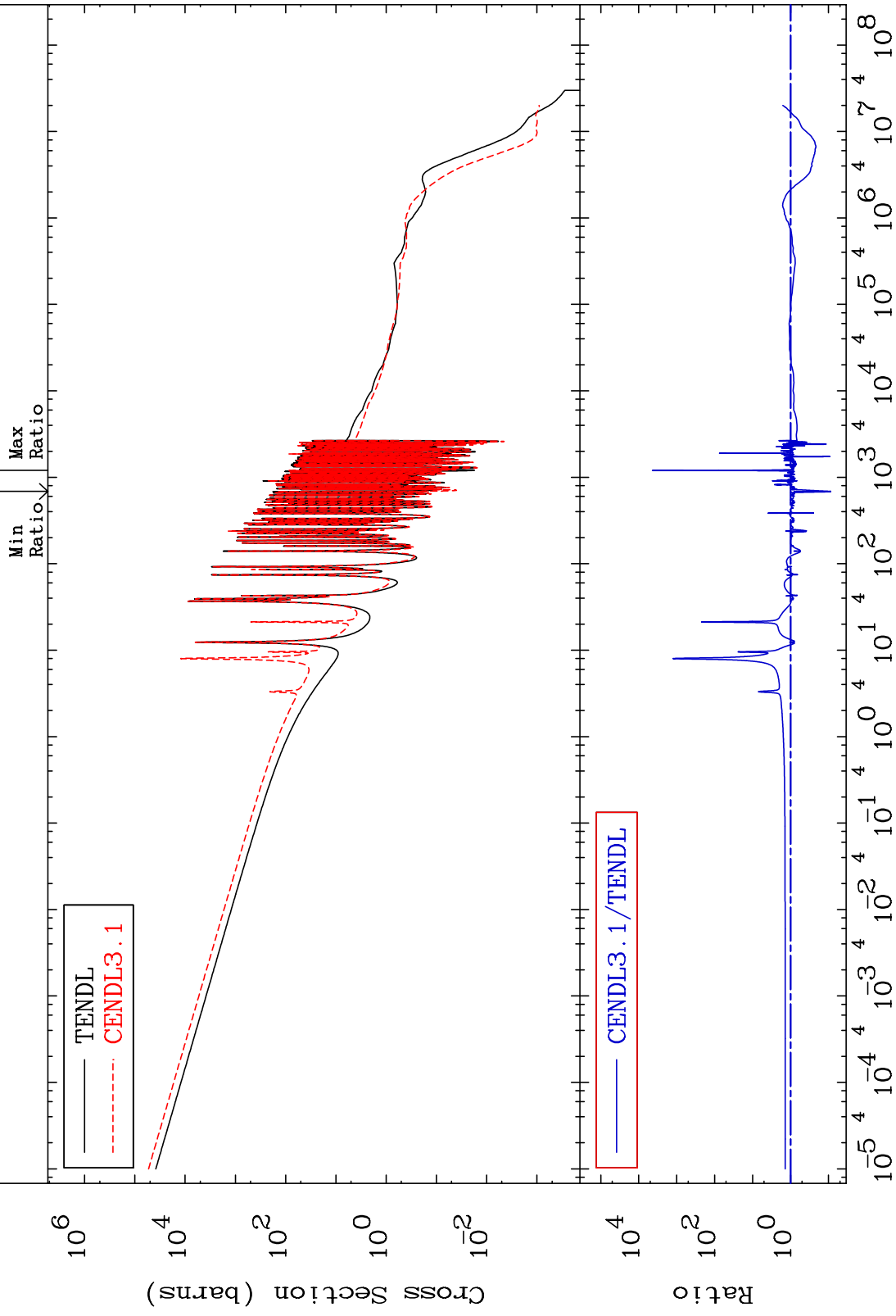
MAT 6425

(n, γ)

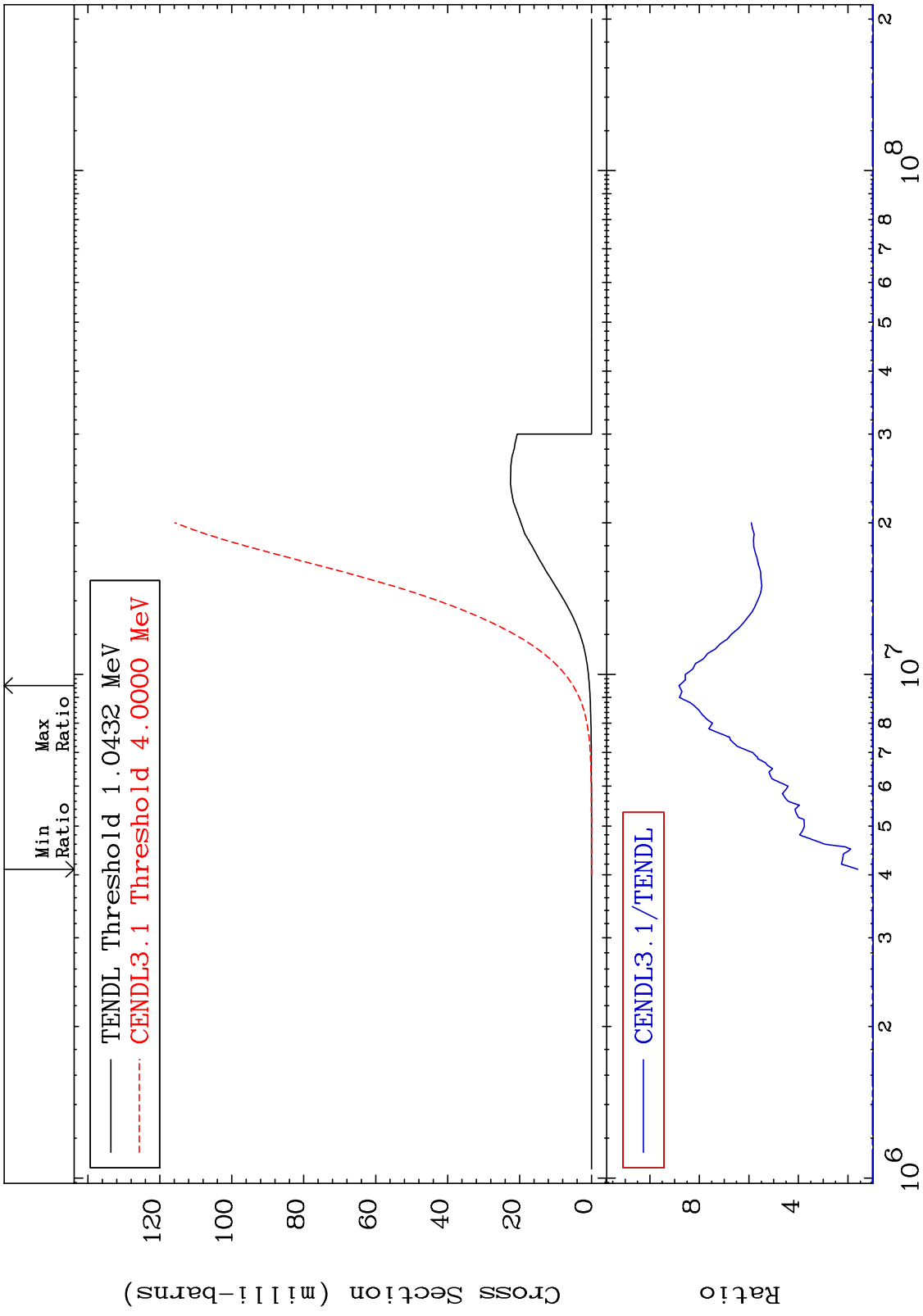
64-Gd-152

-91.32 To 9999. %

Cross Section

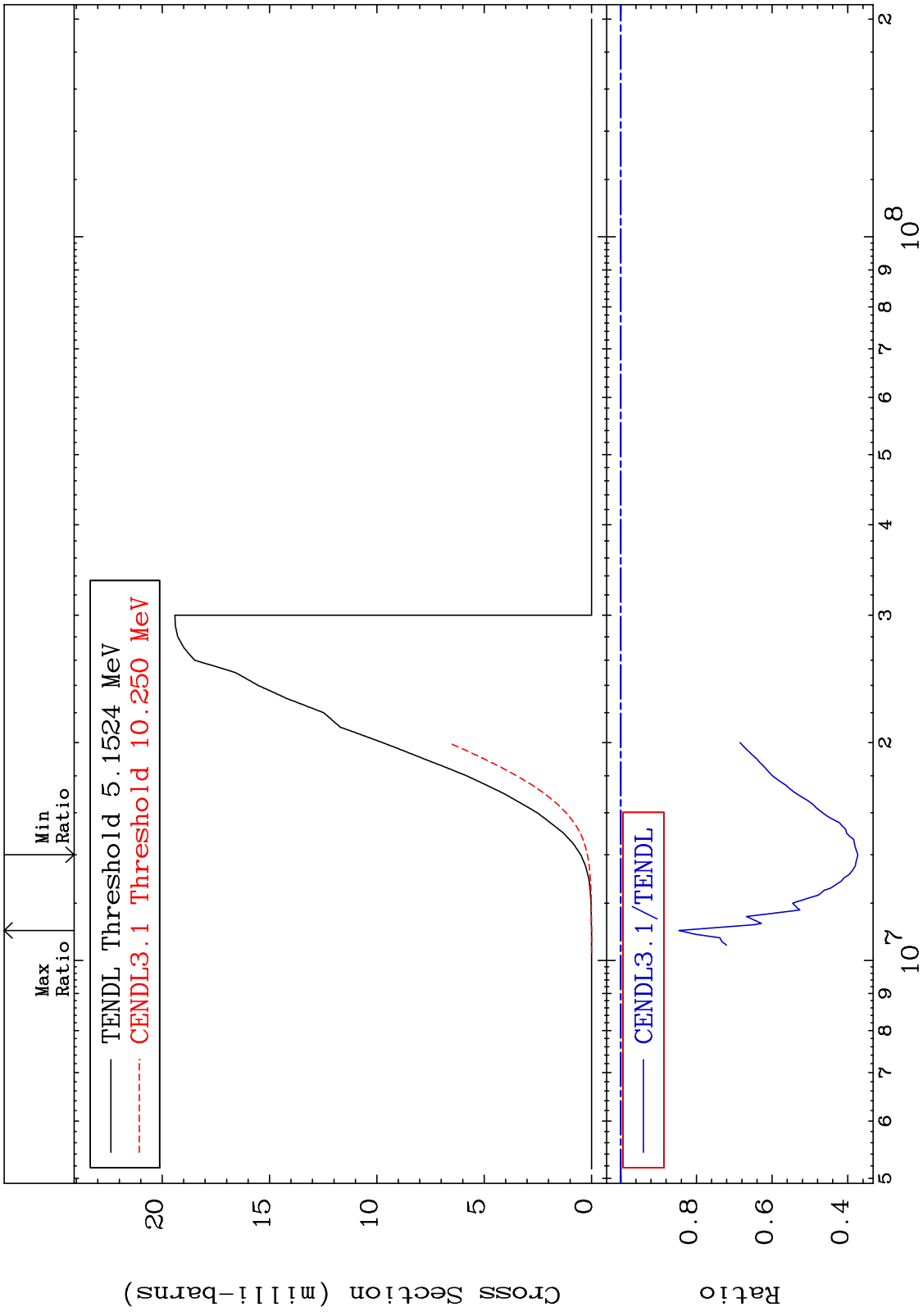


MAT 6425 (n,p) Cross Section 64-Gd-152 60.01 To 782.2 %

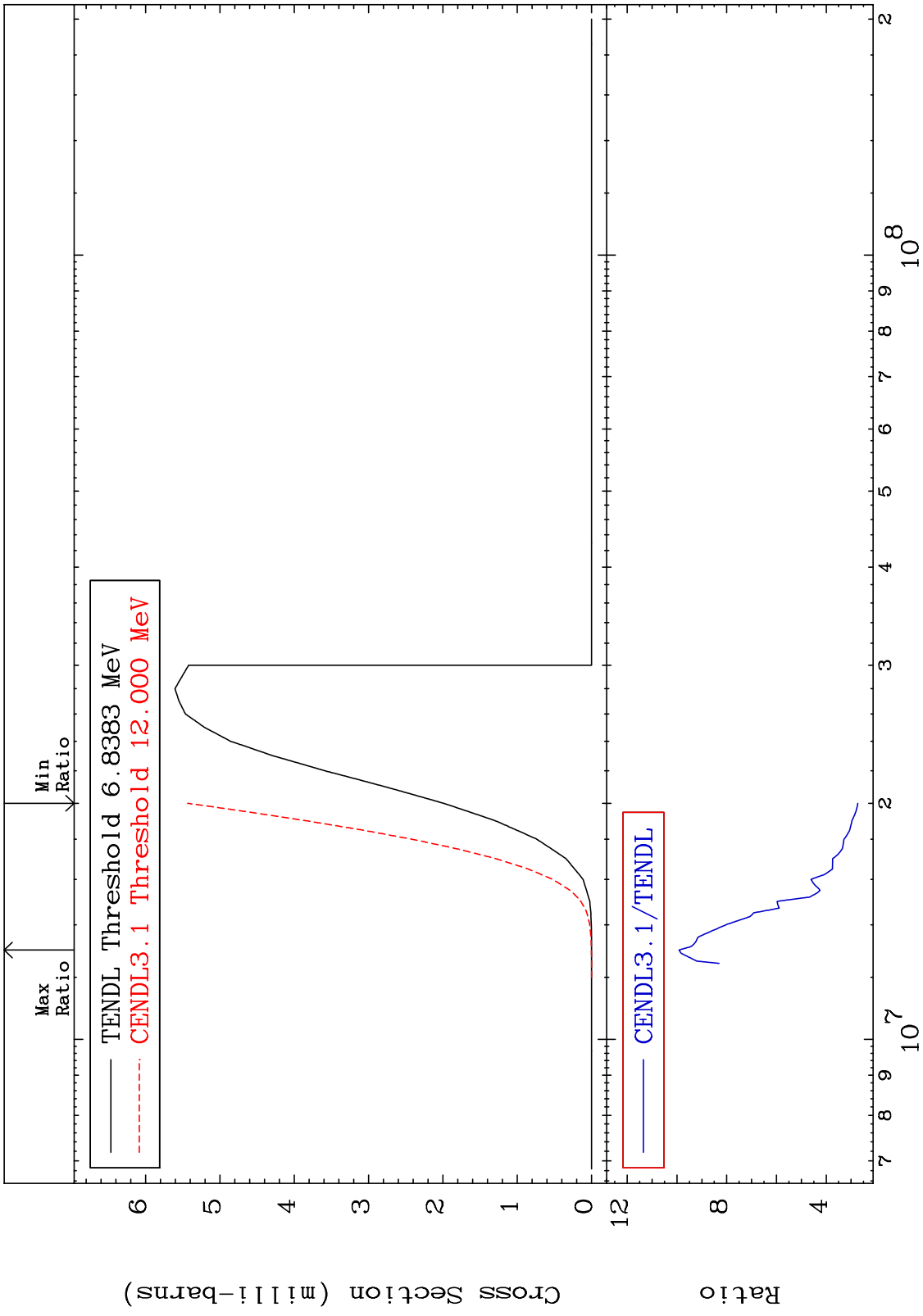


Incident Energy (eV) 64-Gd-152

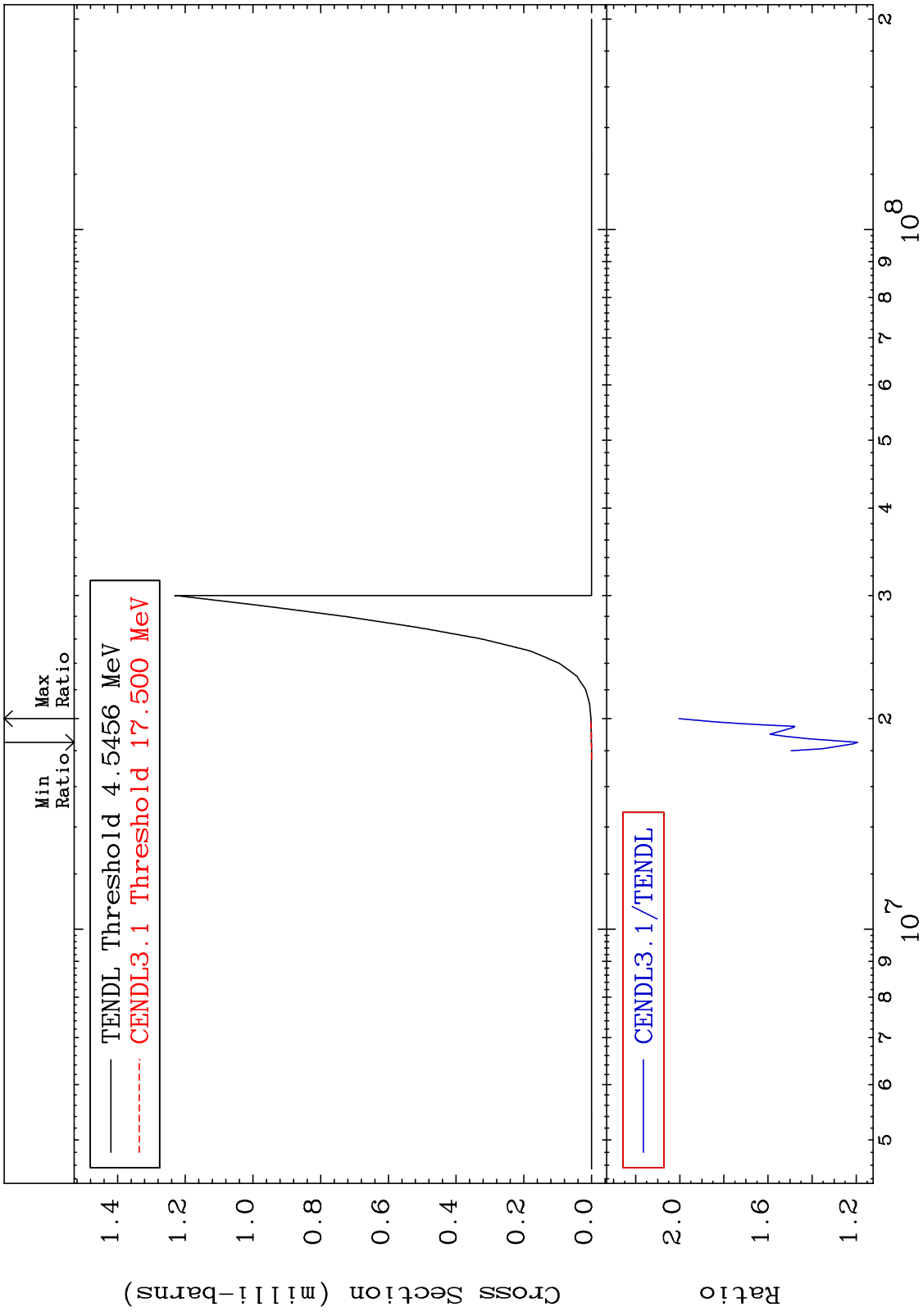
MAT 6425 (n,d) Cross Section 64-Gd-152 -62.65 To -15.40%



MAT 6425 (n,t) Cross Section 64-Gd-152 172.9 To 891.6 %

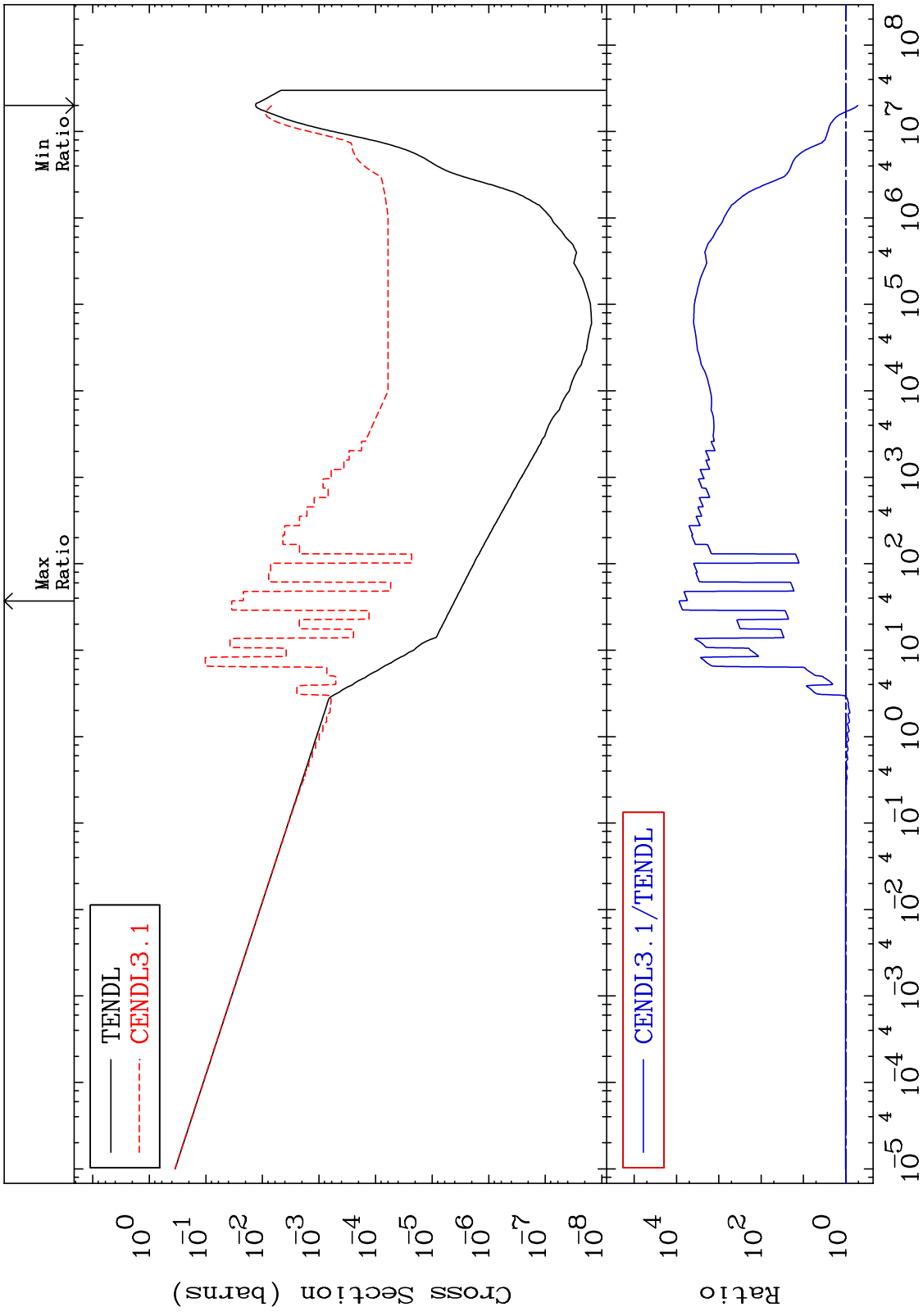


MAT 6425 (n, He-3) Cross Section 64-Gd-152
 19.24 To 100.3 %

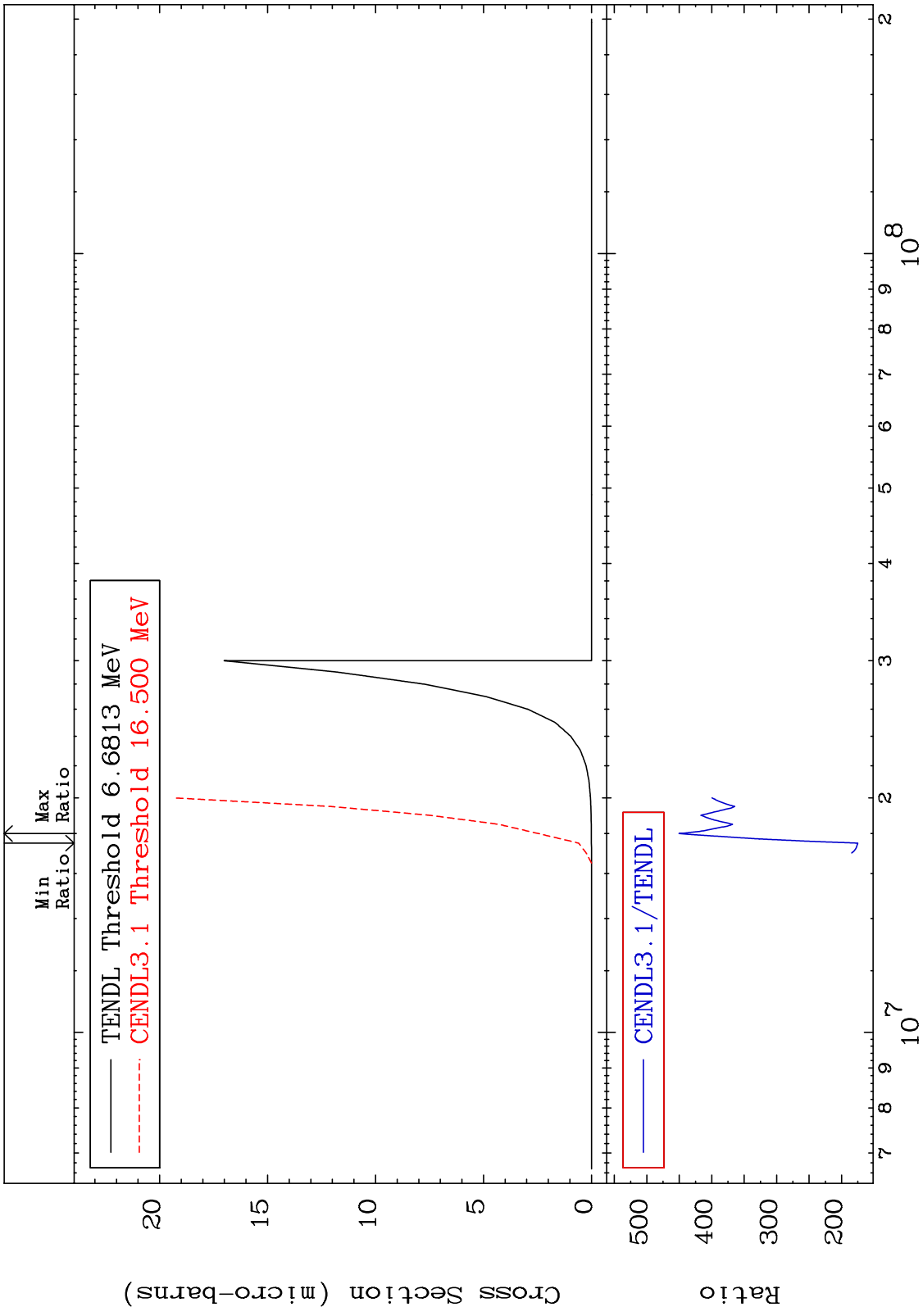


25 64-Gd-152

MAT 6425 64-Gd-152
-48.33 To 9999. %
 (n, α)
 Cross Section



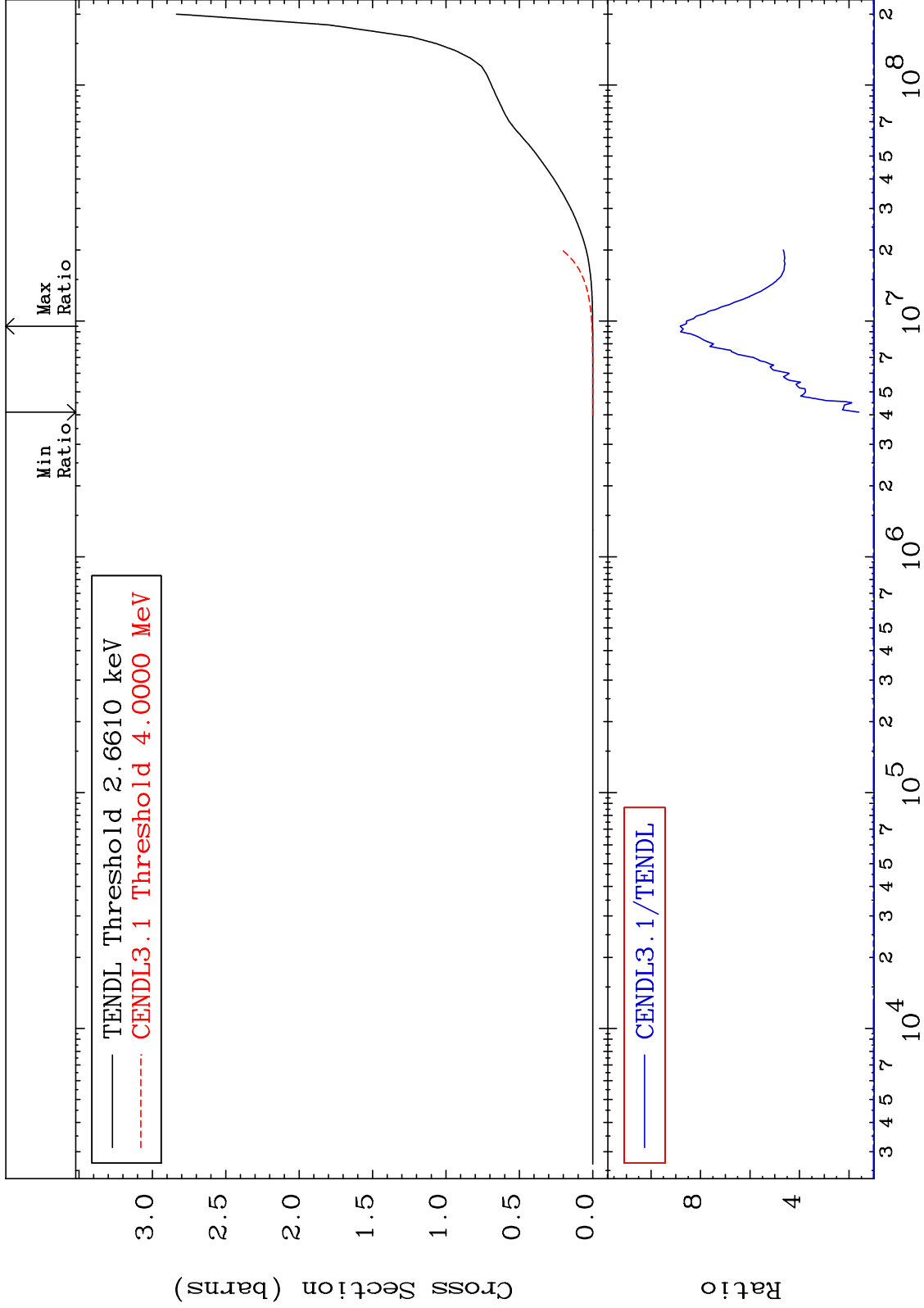
MAT 6425 (n,2p) Cross Section 64-Gd-152 To 9999. %



MAT 6425

Hydrogen Production
Cross Section

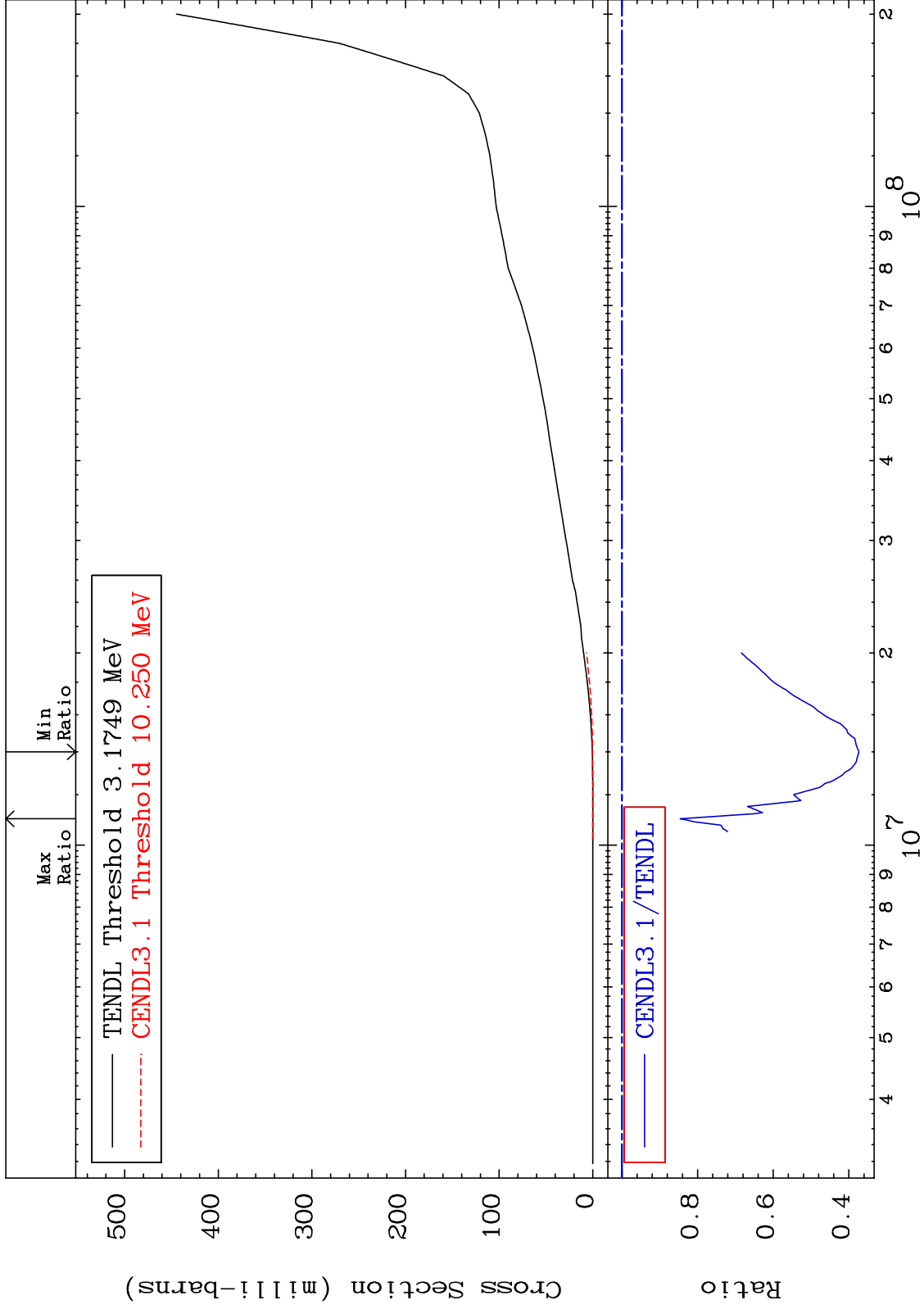
64-Gd-152
60.01 To 782.2 %



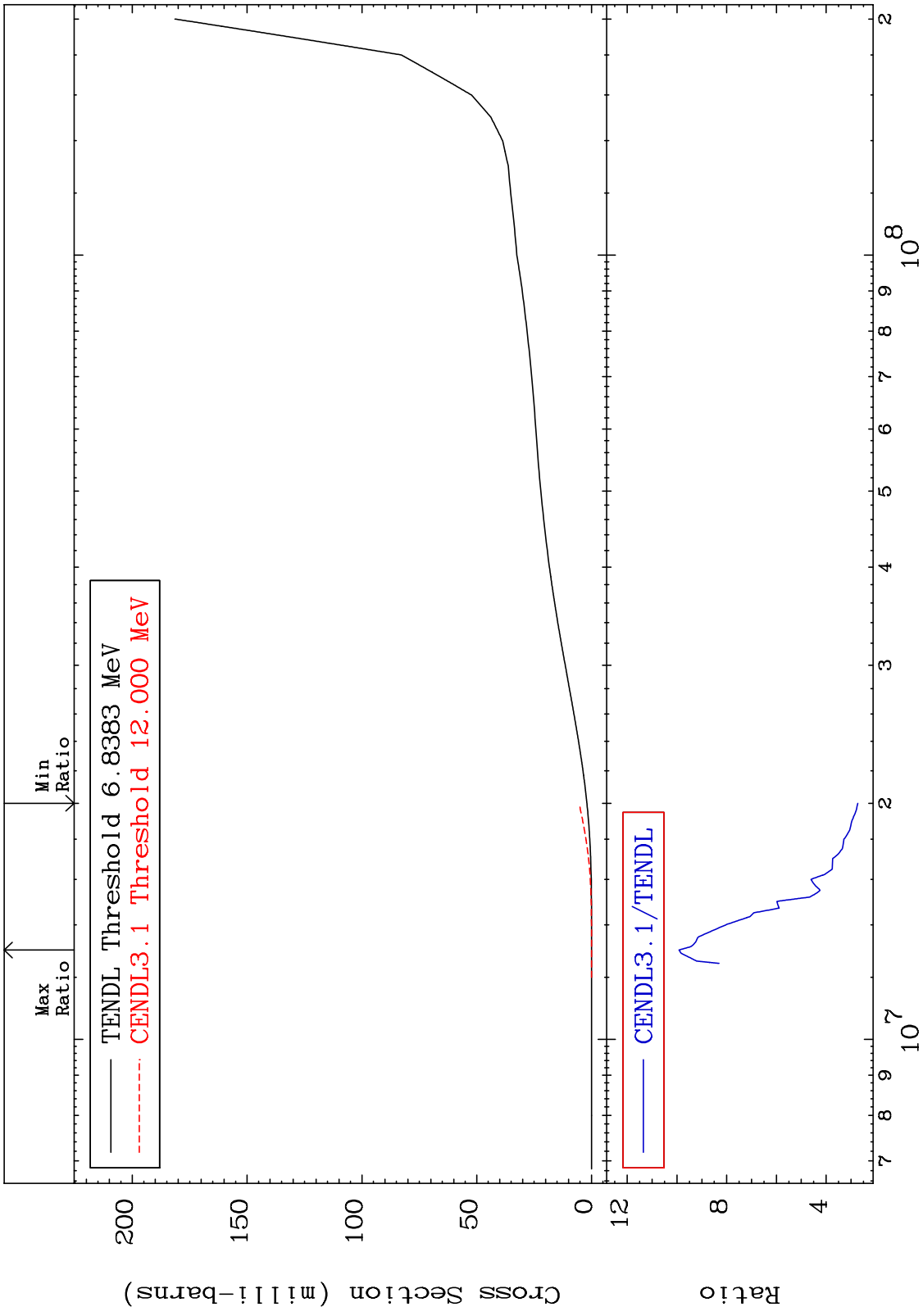
MAT 6425

Deuterium Production
Cross Section

64-Gd-152
-62.65 To -15.40%

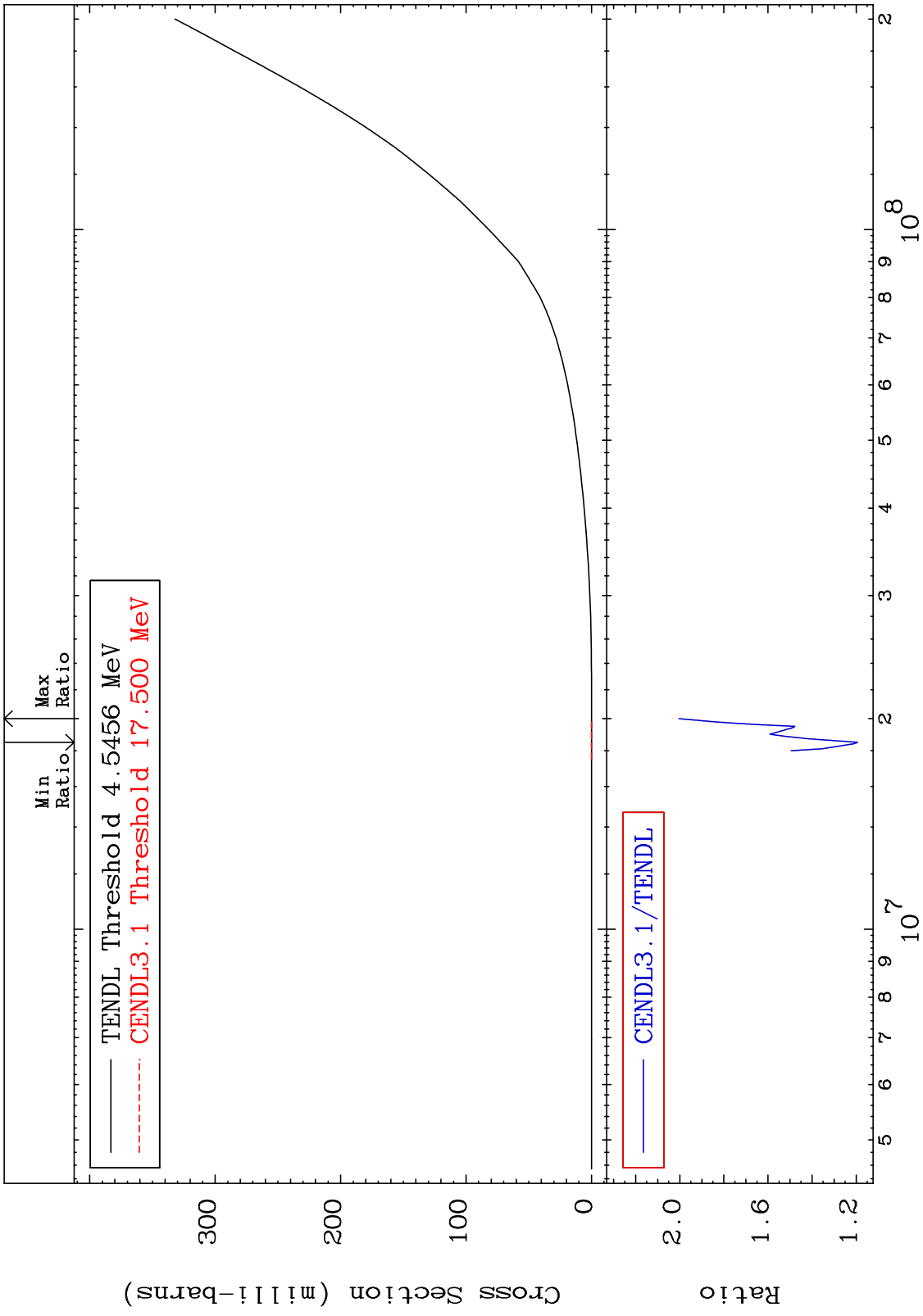


MAT 6425 Tritium Production Cross Section 64-Gd-152 172.5 To 891.6 %



30 64-Gd-152 Incident Energy (eV)

MAT 6425 He-3 Production Cross Section 64-Gd-152 To 100.3 %

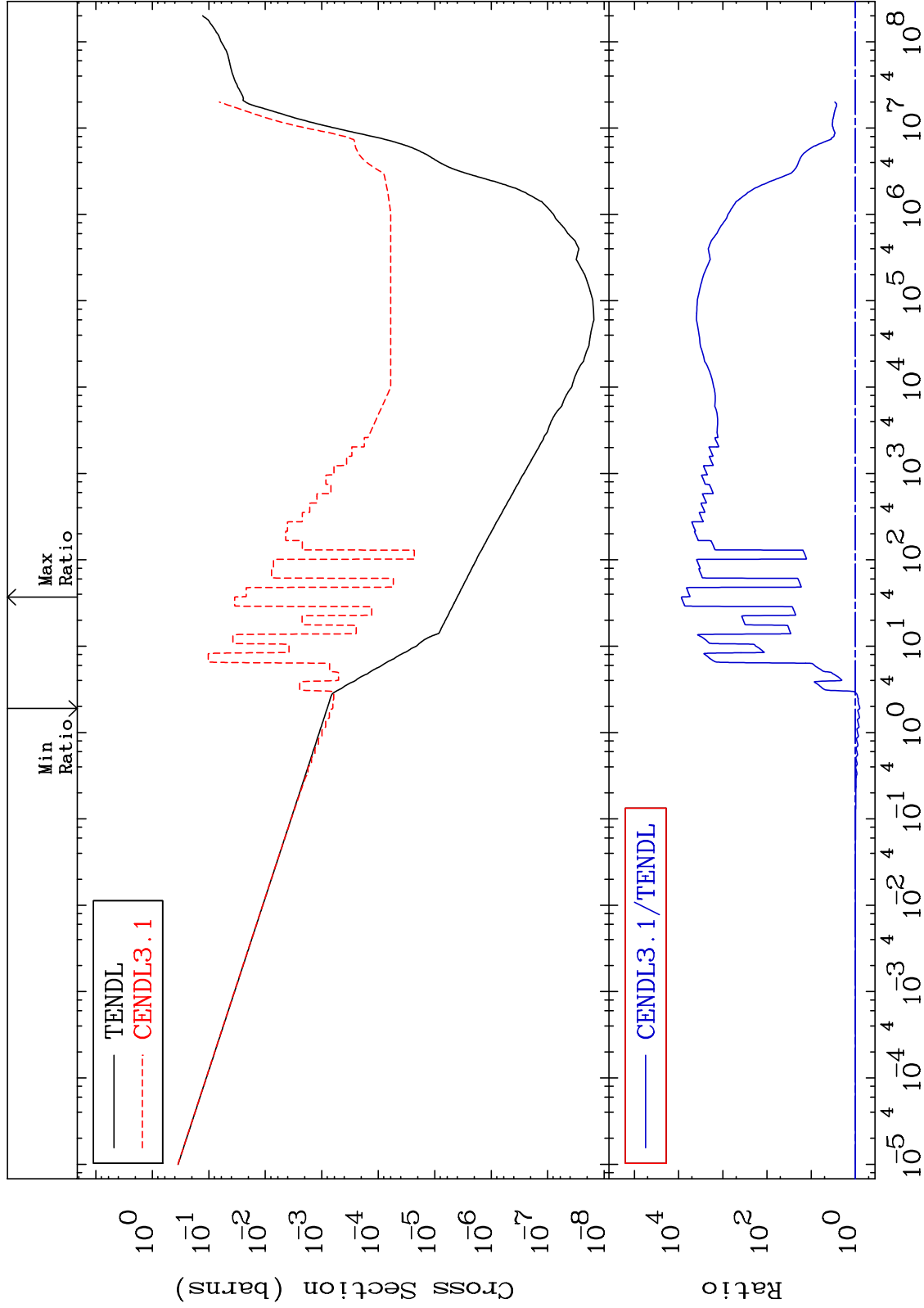


31 64-Gd-152

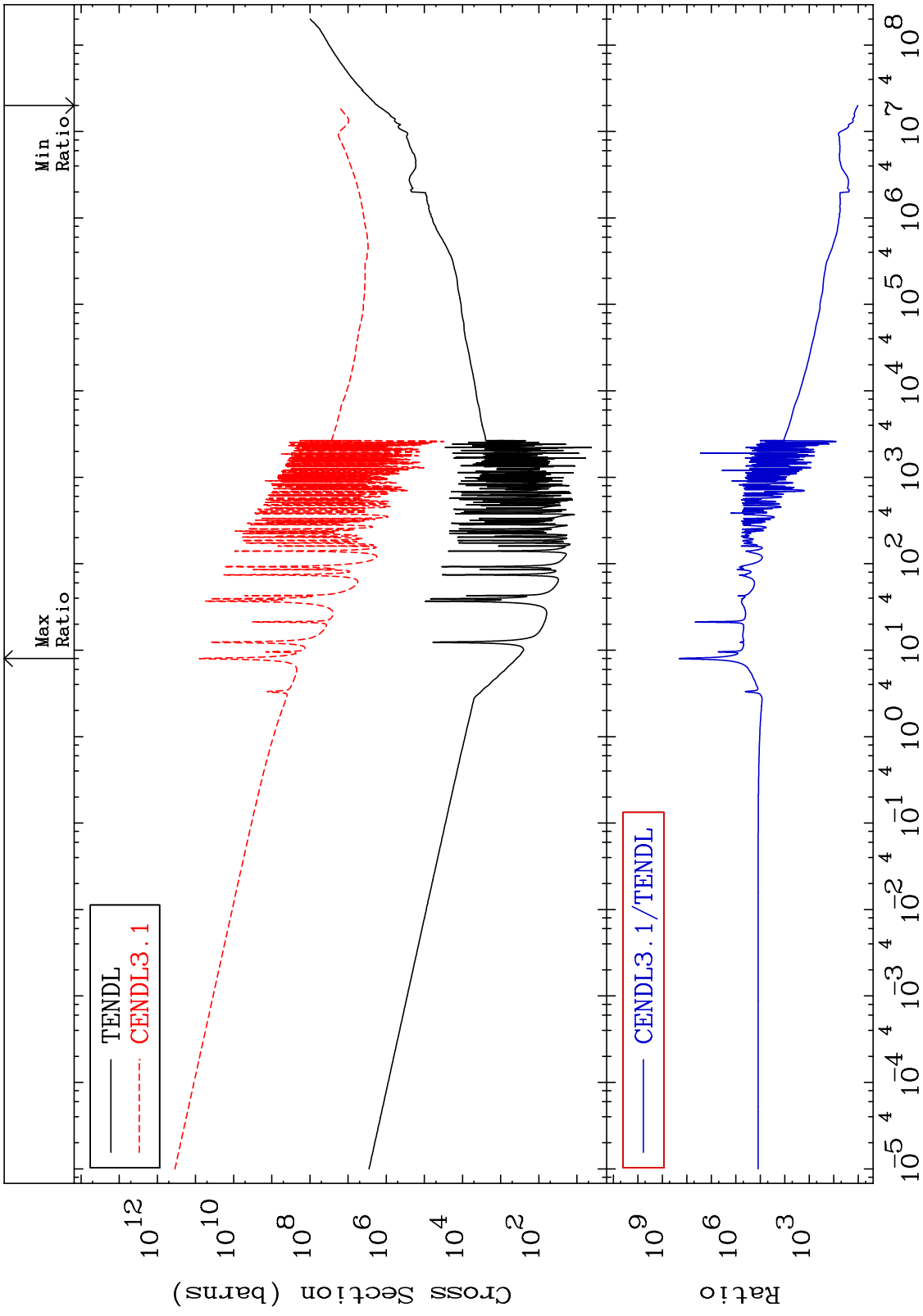
MAT 6425

He-4 Production
Cross Section

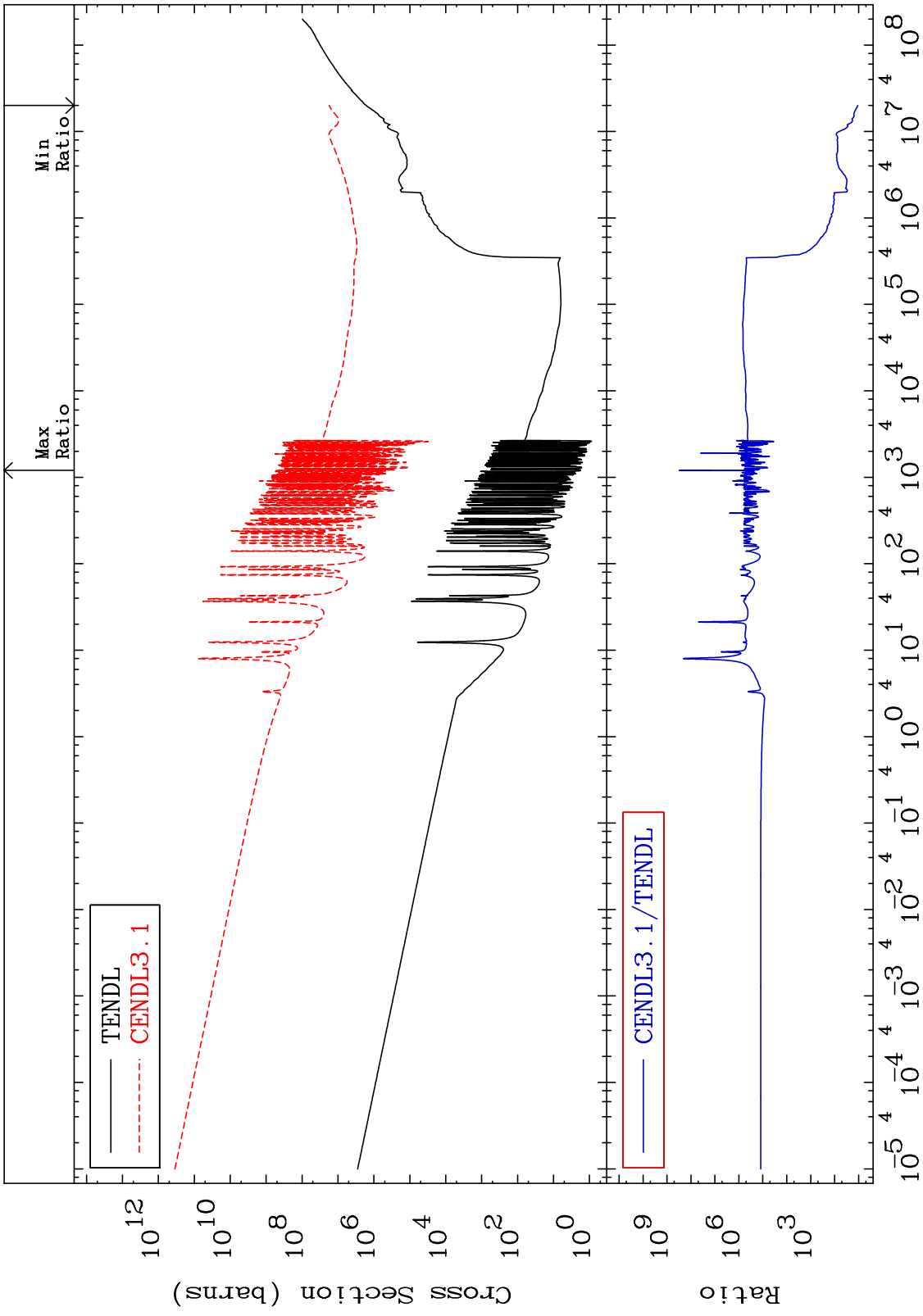
64-Gd-152
-20.21 To 9999. %



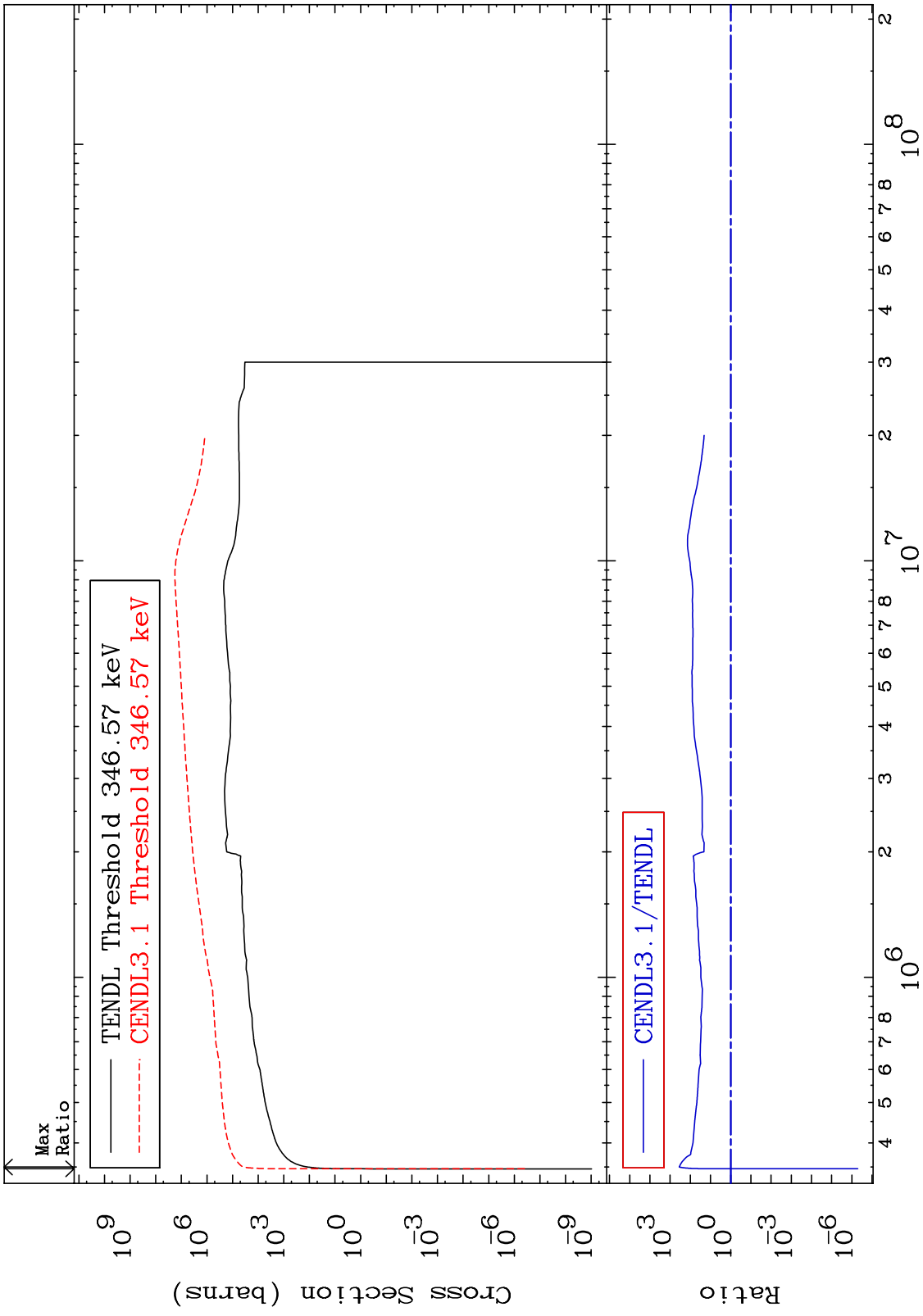
MAT 6425 Kerma total (eV-barns) 64-Gd-152
 Cross Section 938.9 To 9999. %



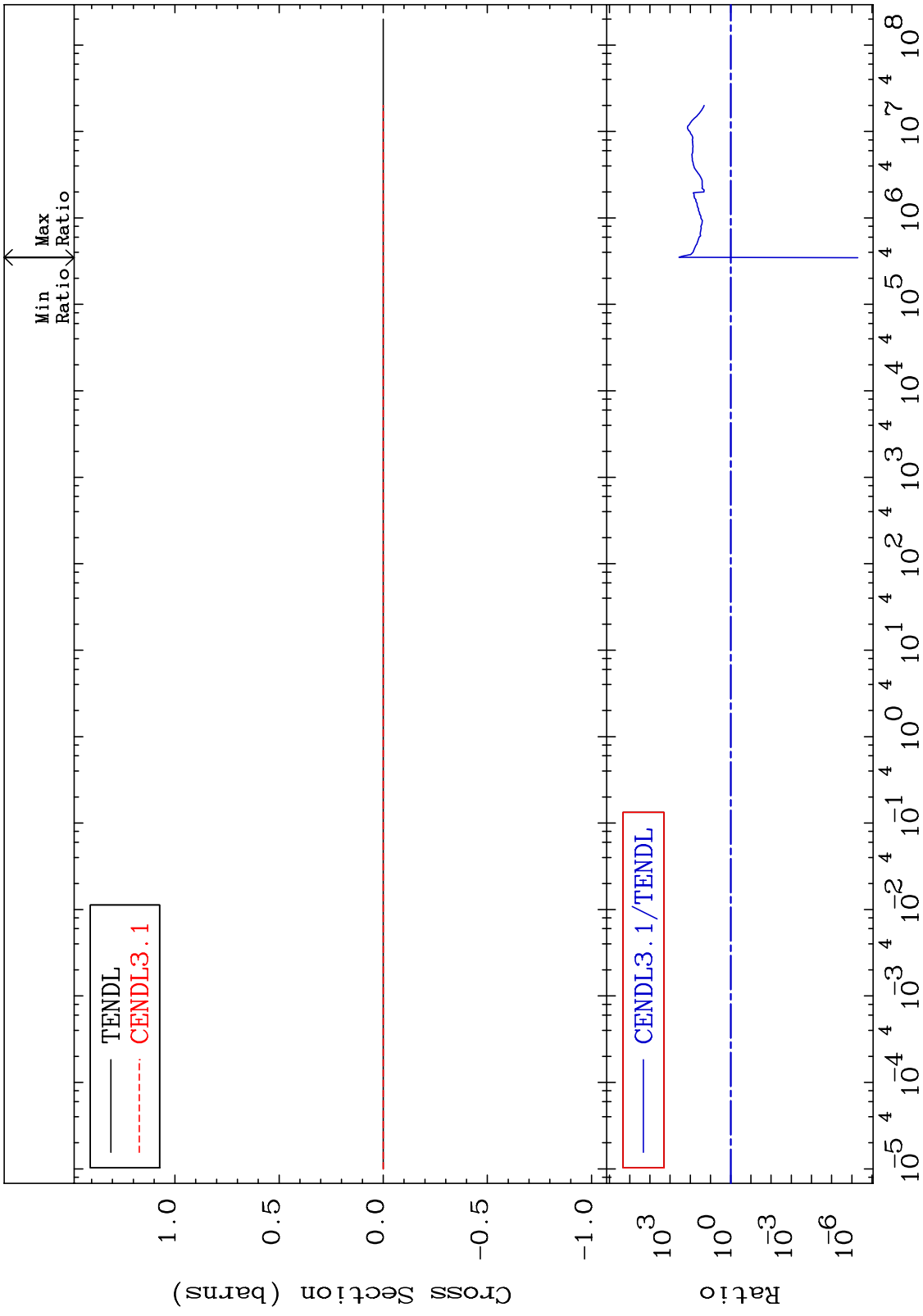
MAT 6425 Kerma non-elastic (all but mt2) 64-Gd-152
 Cross Section 974.3 To 9999. %



MAT 6425 Kerma inelastic (mt51-91) 64-Gd-152
 Cross Section -100.0 To 9999. %



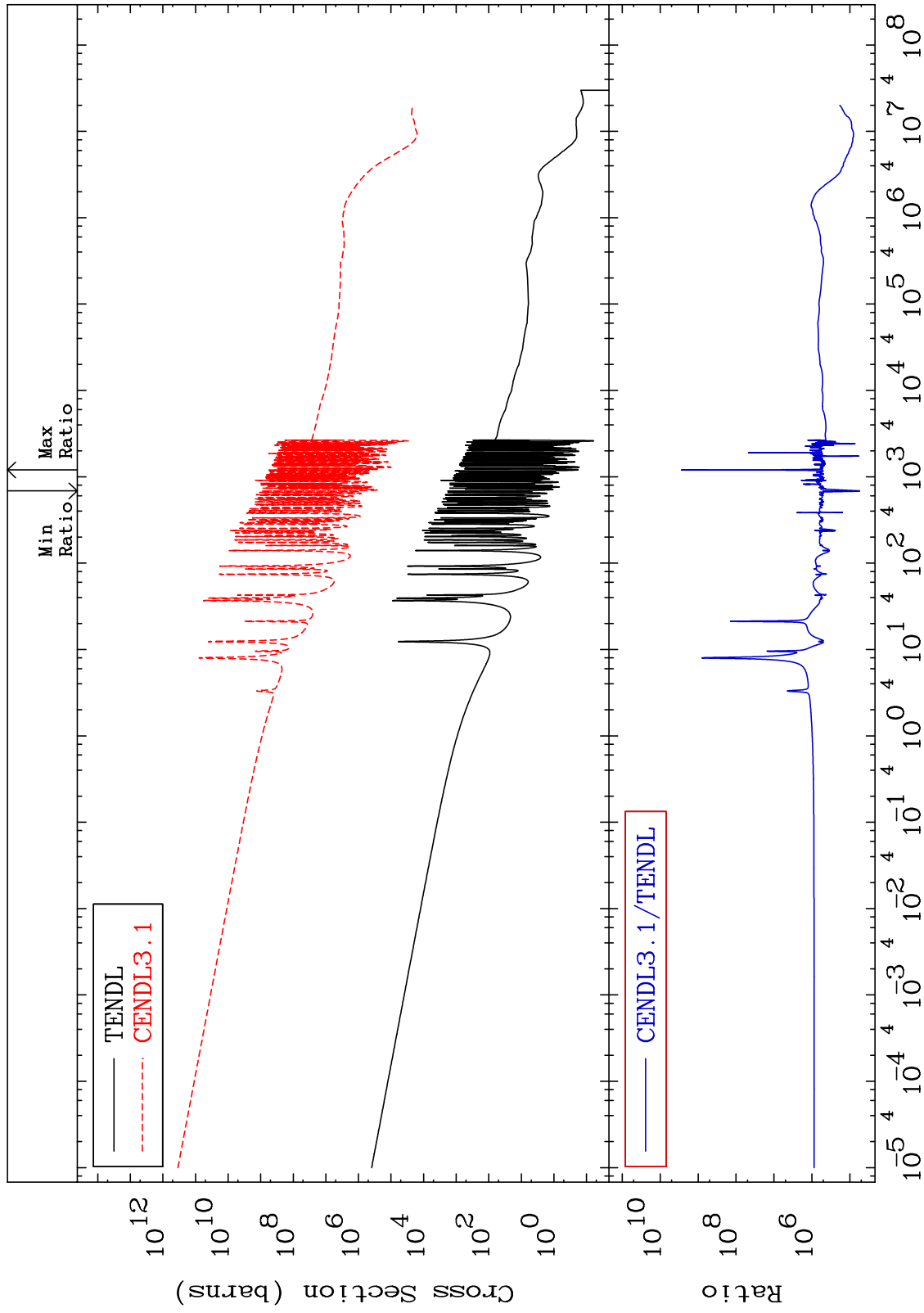
MAT 6425 Kerma fission (mt18 or mt19-20-21-38) 64-Gd-152
 Cross Section -100.0 To 9999. %



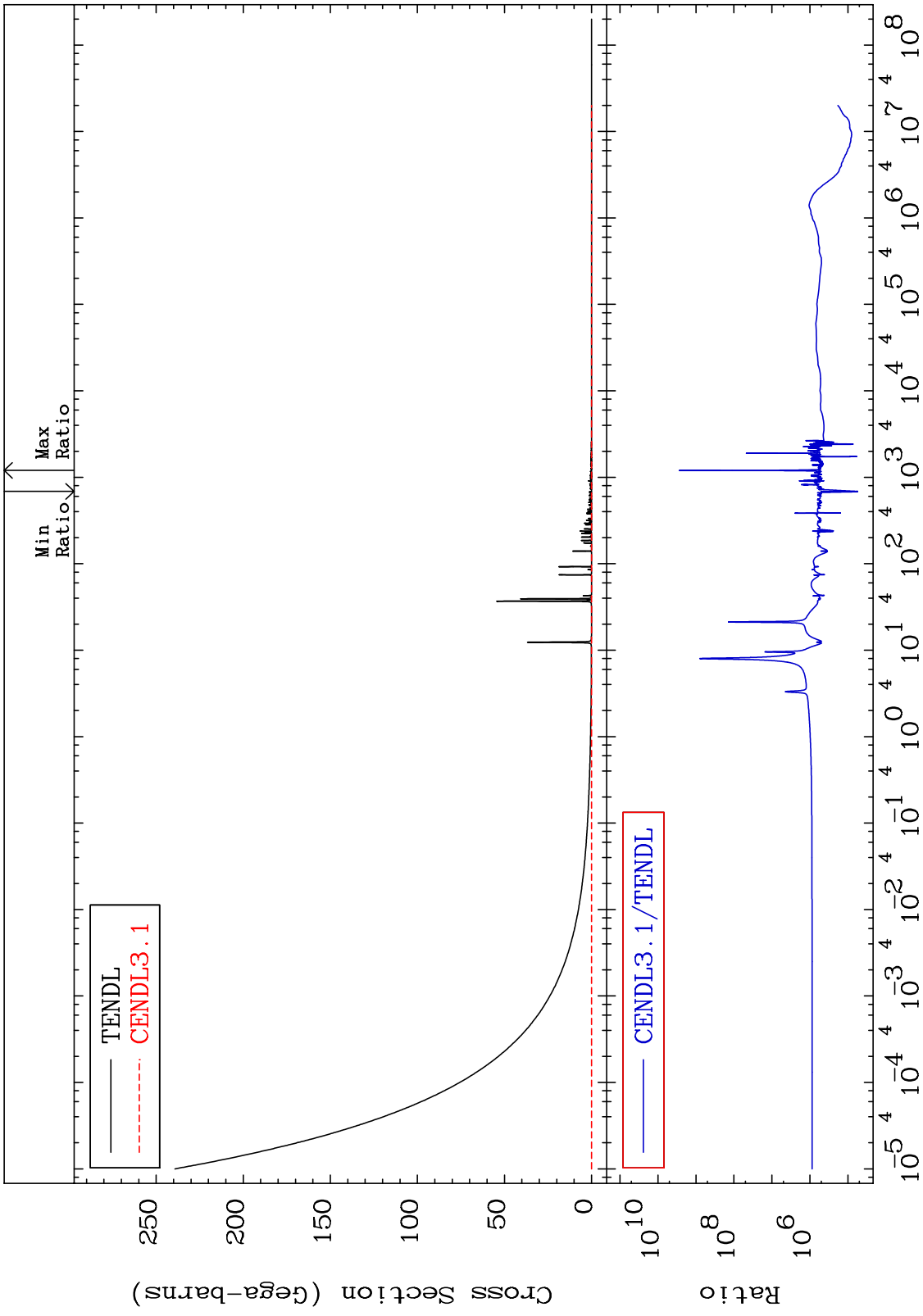
MAT 6425

Kerma capture (mt102)
Cross Section

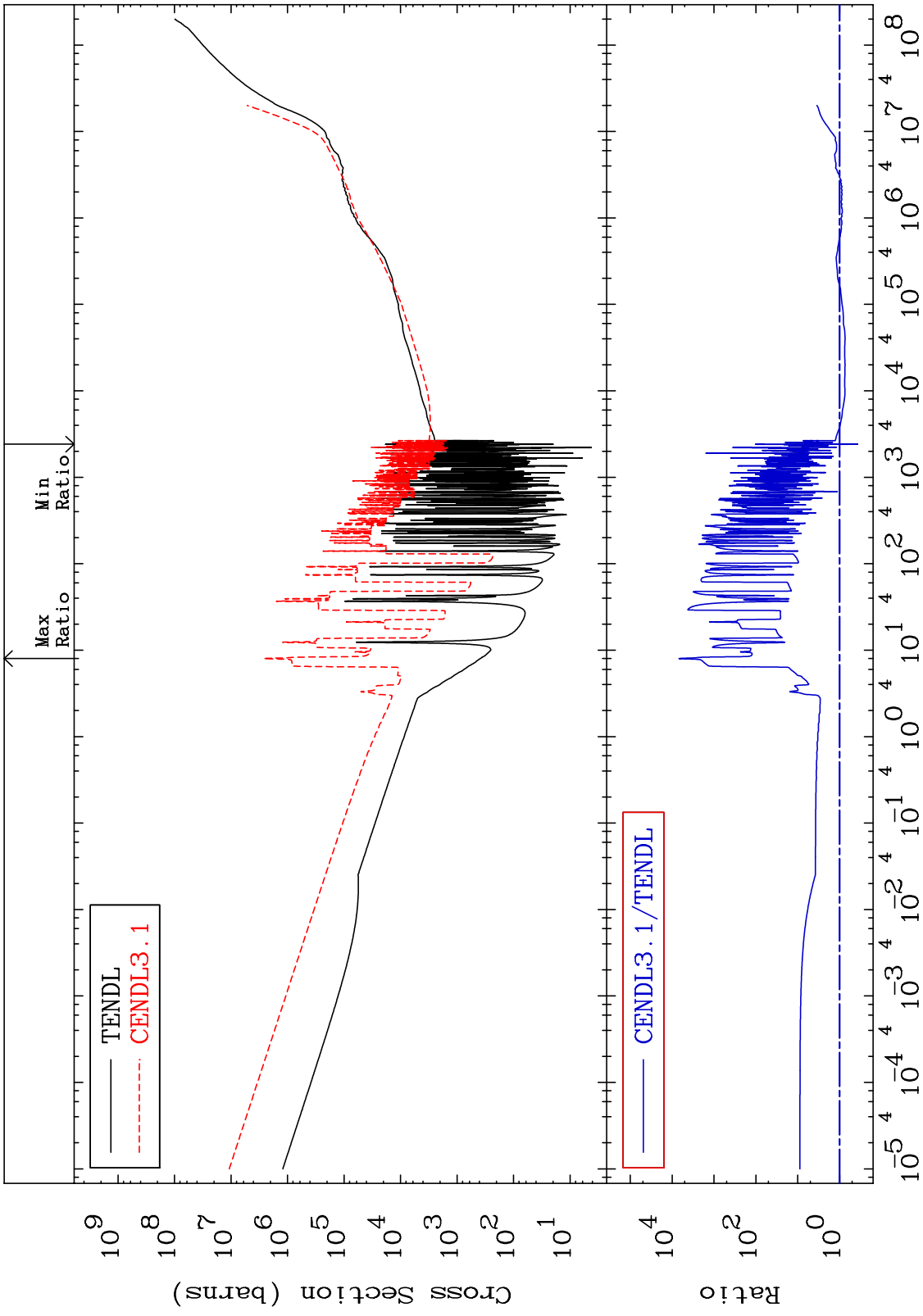
64-Gd-152
9999. To 9999. %



MAT 6425 Total photon (eV-barns) Cross Section 64-Gd-152 9999. To 9999. %

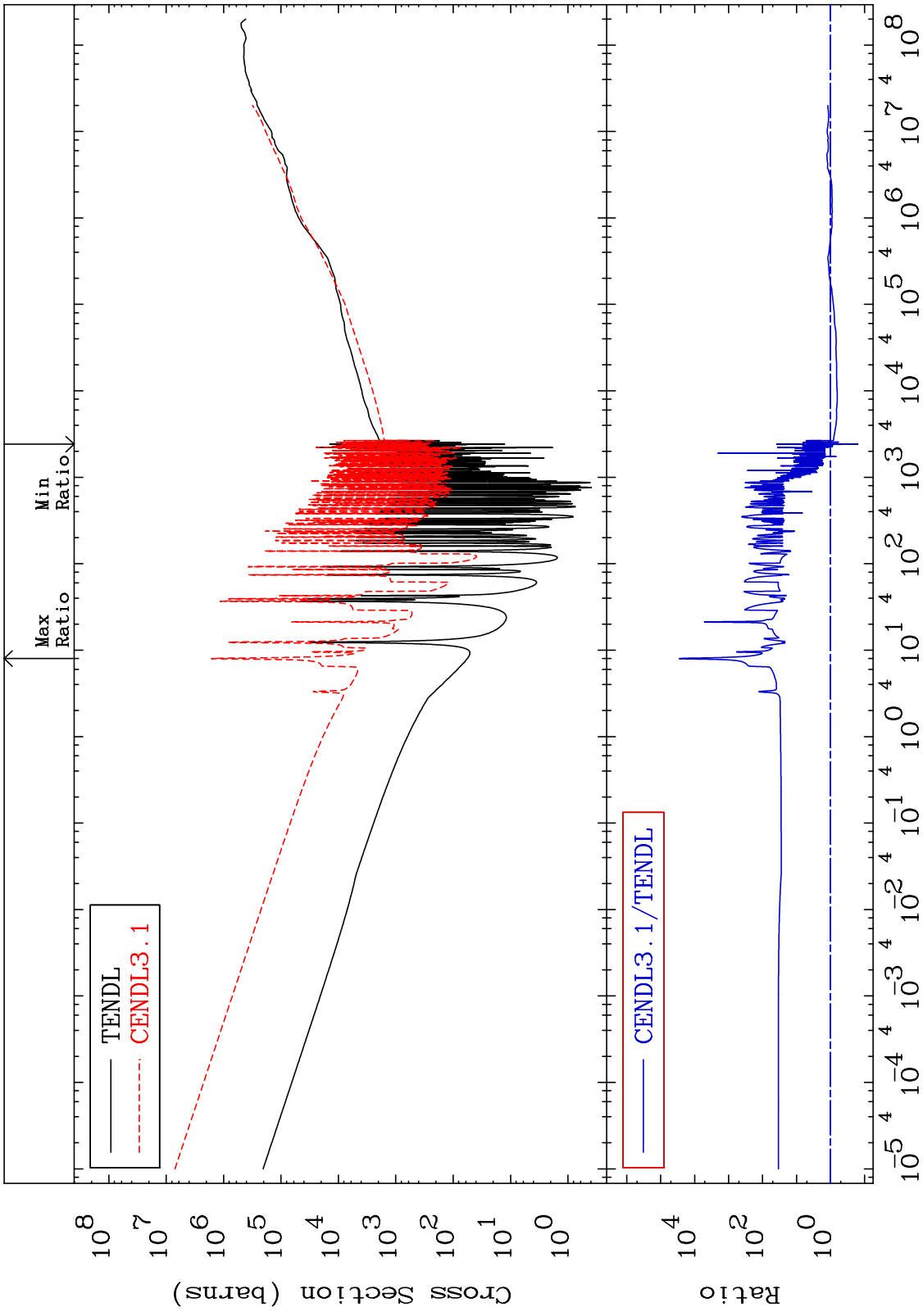


MAT 6425 Total kinematic kerma (high limit) 64-Gd-152
 Cross Section -63.40 To 9999. %

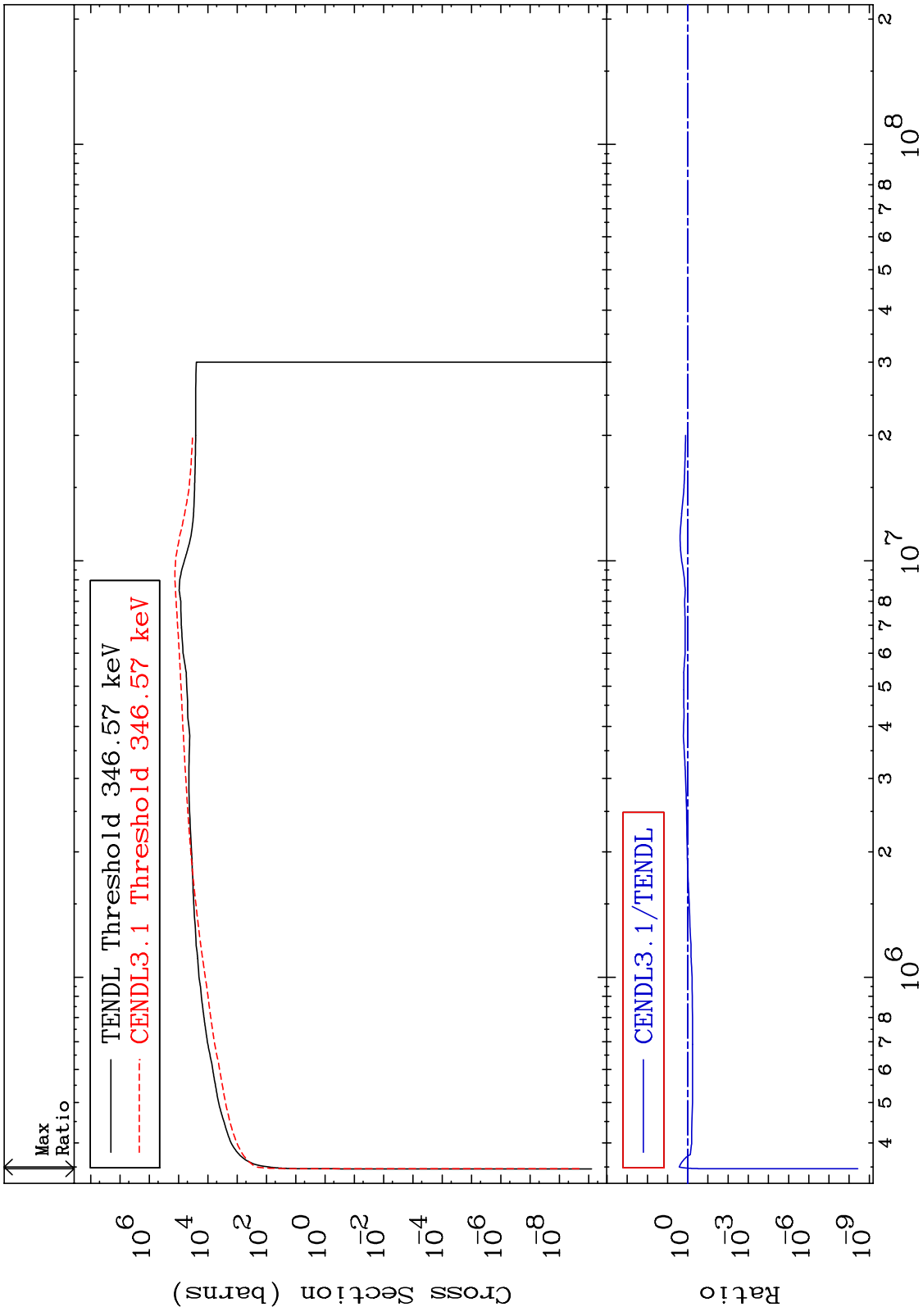


40 64-Gd-152

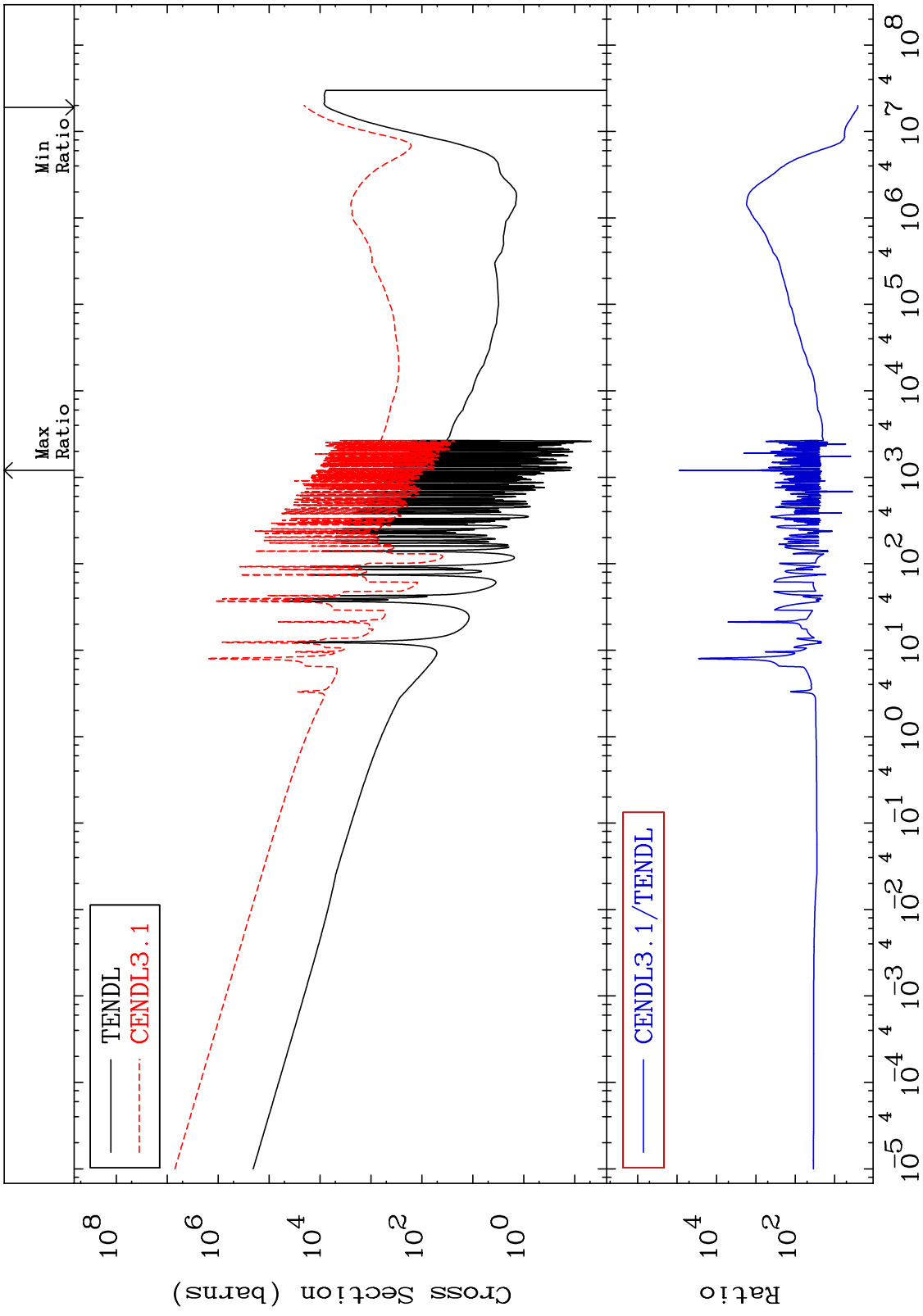
MAT 6425 Dpa total (eV-barns) 64-Gd-152
 Cross Section -84.28 To 9999. %



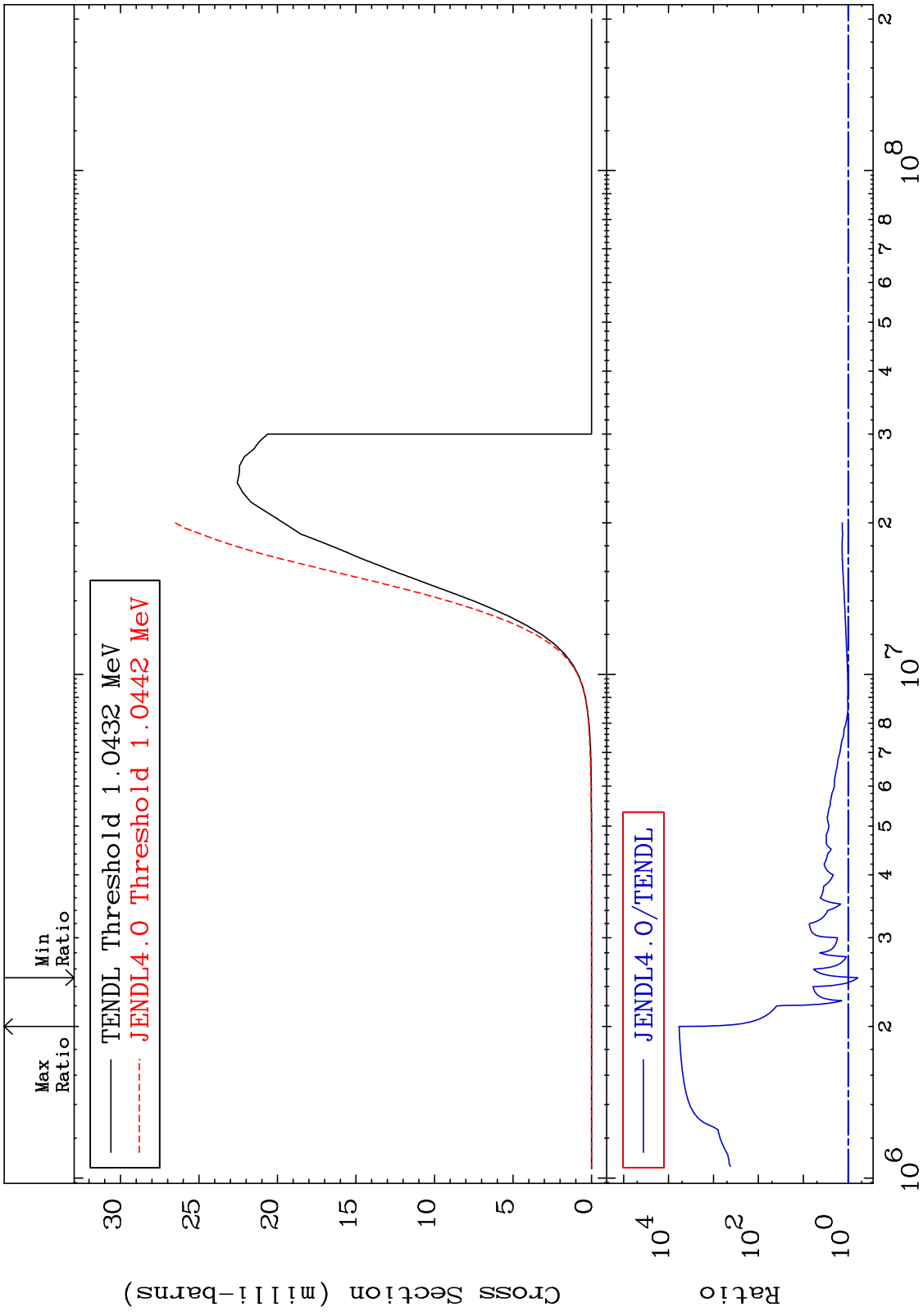
MAT 6425 Dpa inelastic (mt51-91) 64-Gd-152
 Cross Section -100.0 To 170.1 %



MAT 6425 Dpa disappearance (mt102 -120) 64-Gd-152
 Cross Section 157.9 To 9999. %

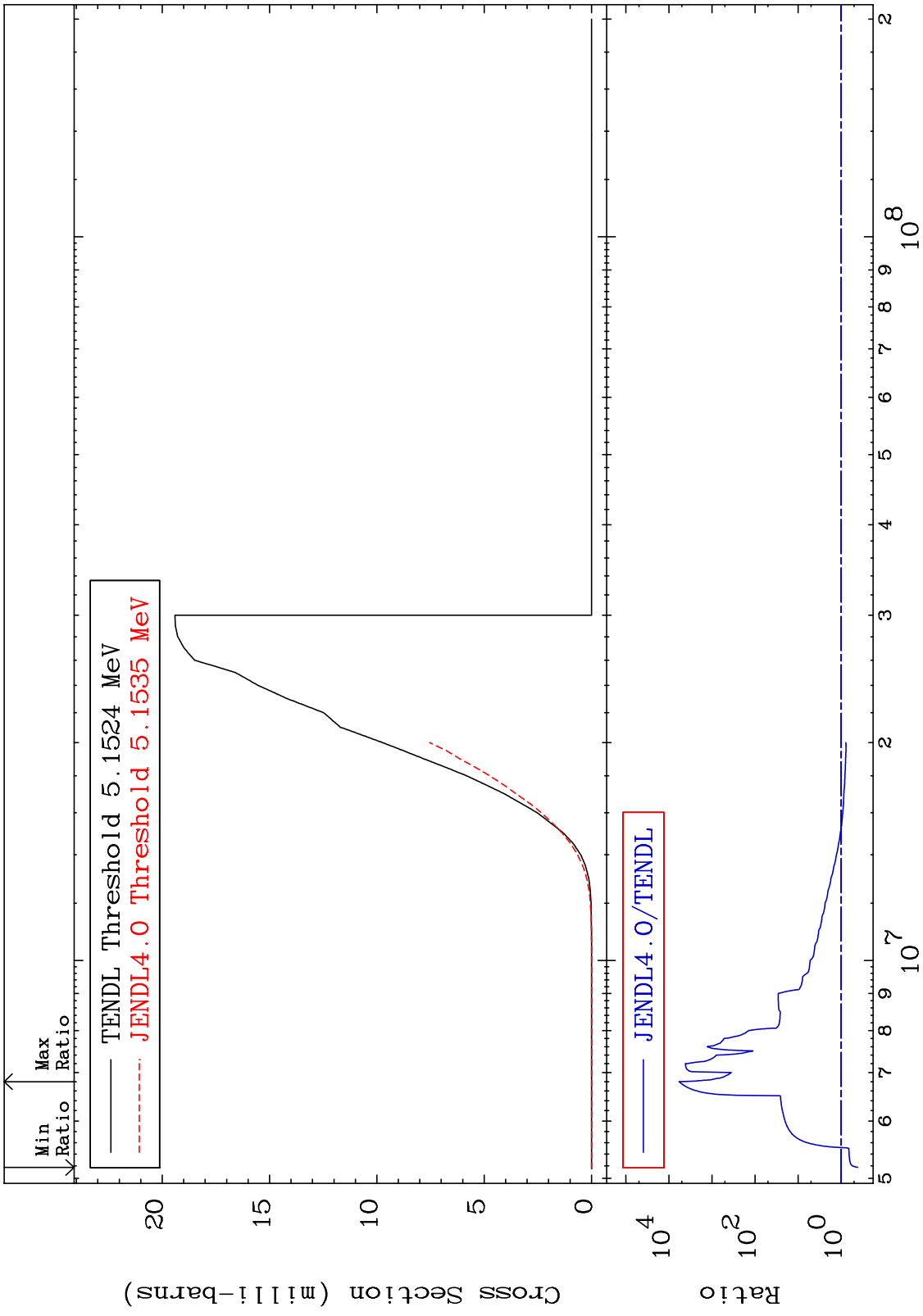


MAT 6425 (n,p) Cross Section 64-Gd-152
 -38.91 To 9999. %

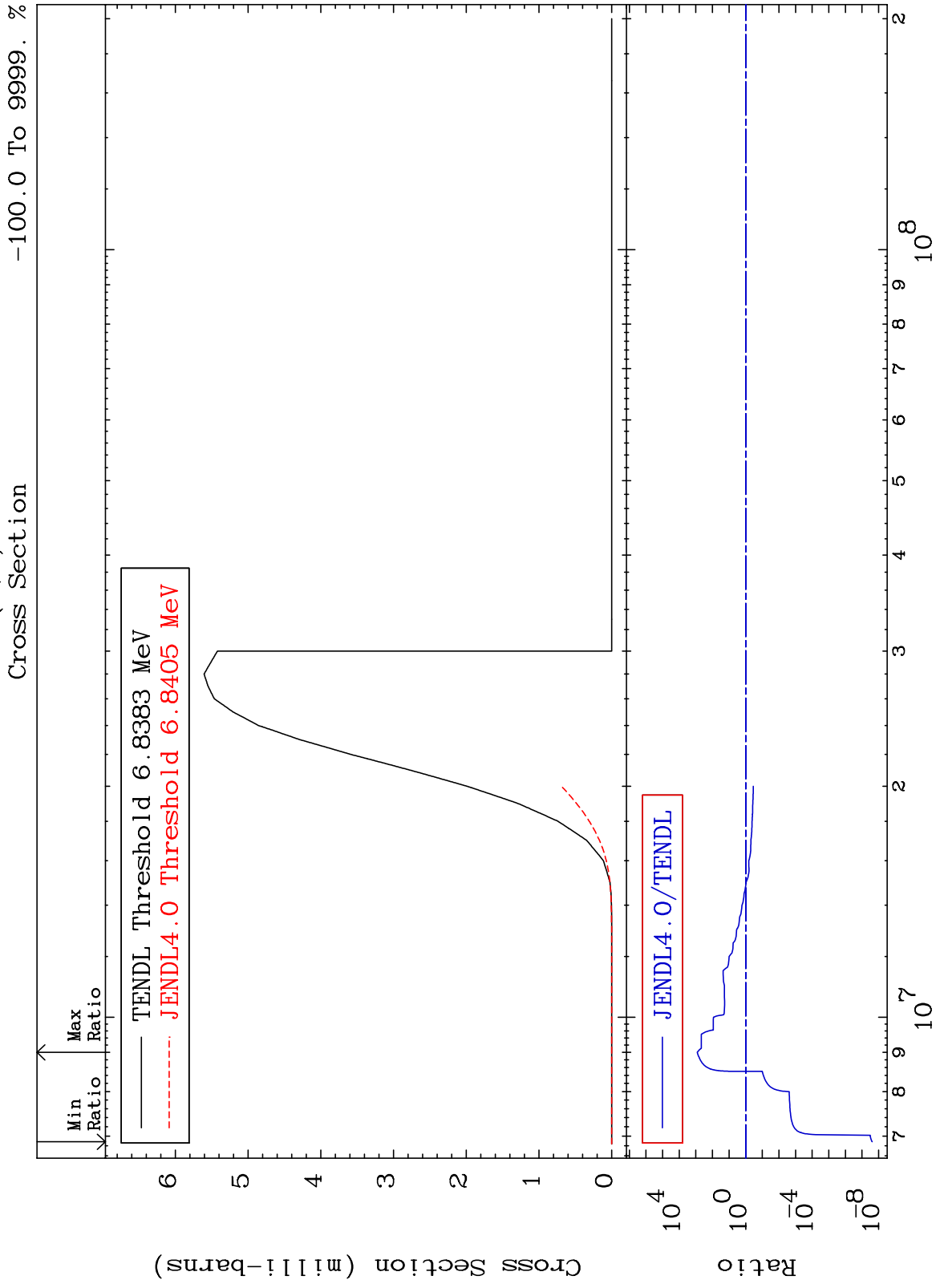


45 64-Gd-152

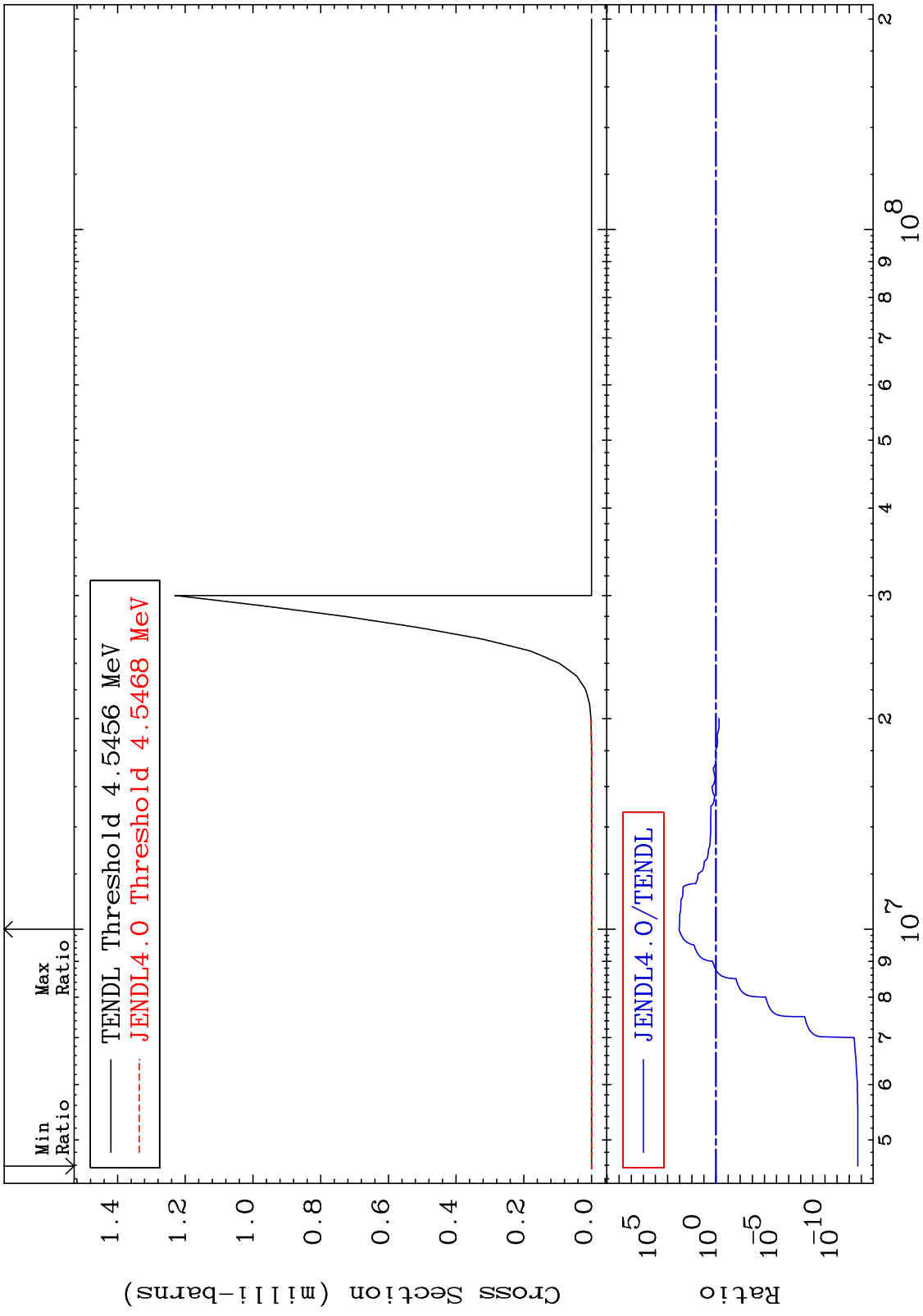
MAT 6425 (n,d) Cross Section 64-Gd-152
 -59.17 To 9999. %



46 64-Gd-152



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



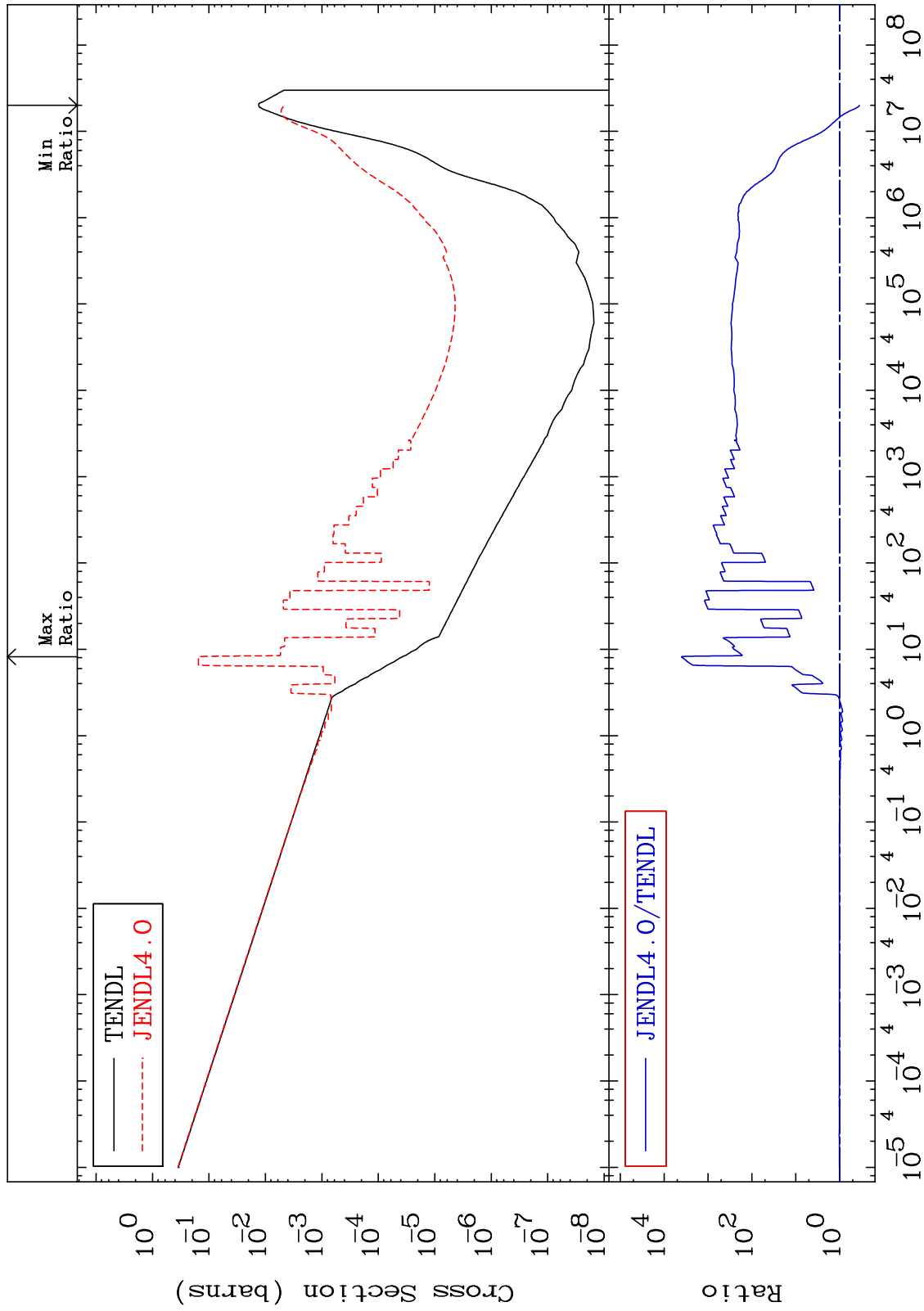
48 Incident Energy (eV) 64-Gd-152

MAT 6425

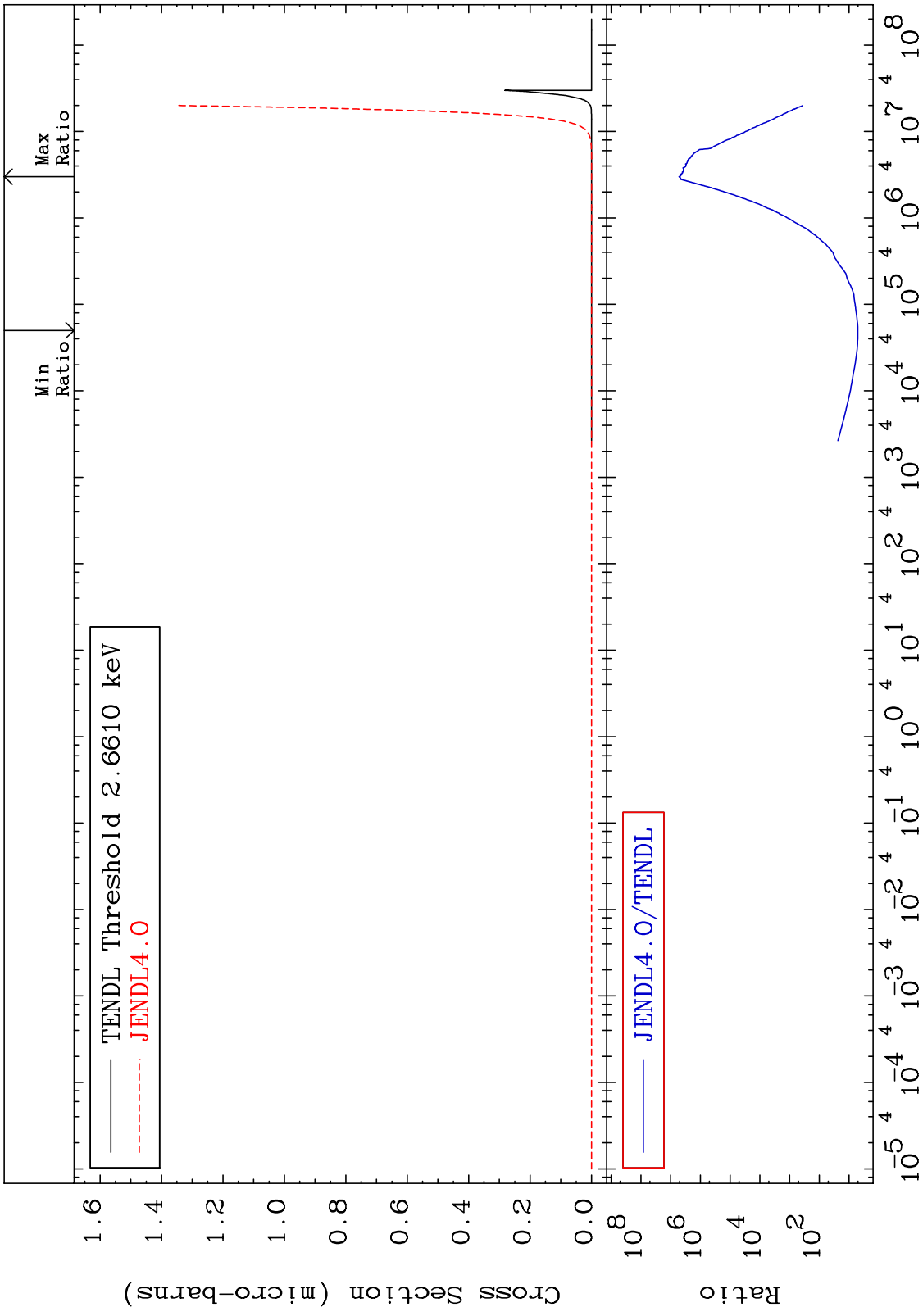
(n, α)

64-Gd-152

-65.34 To 9999. %



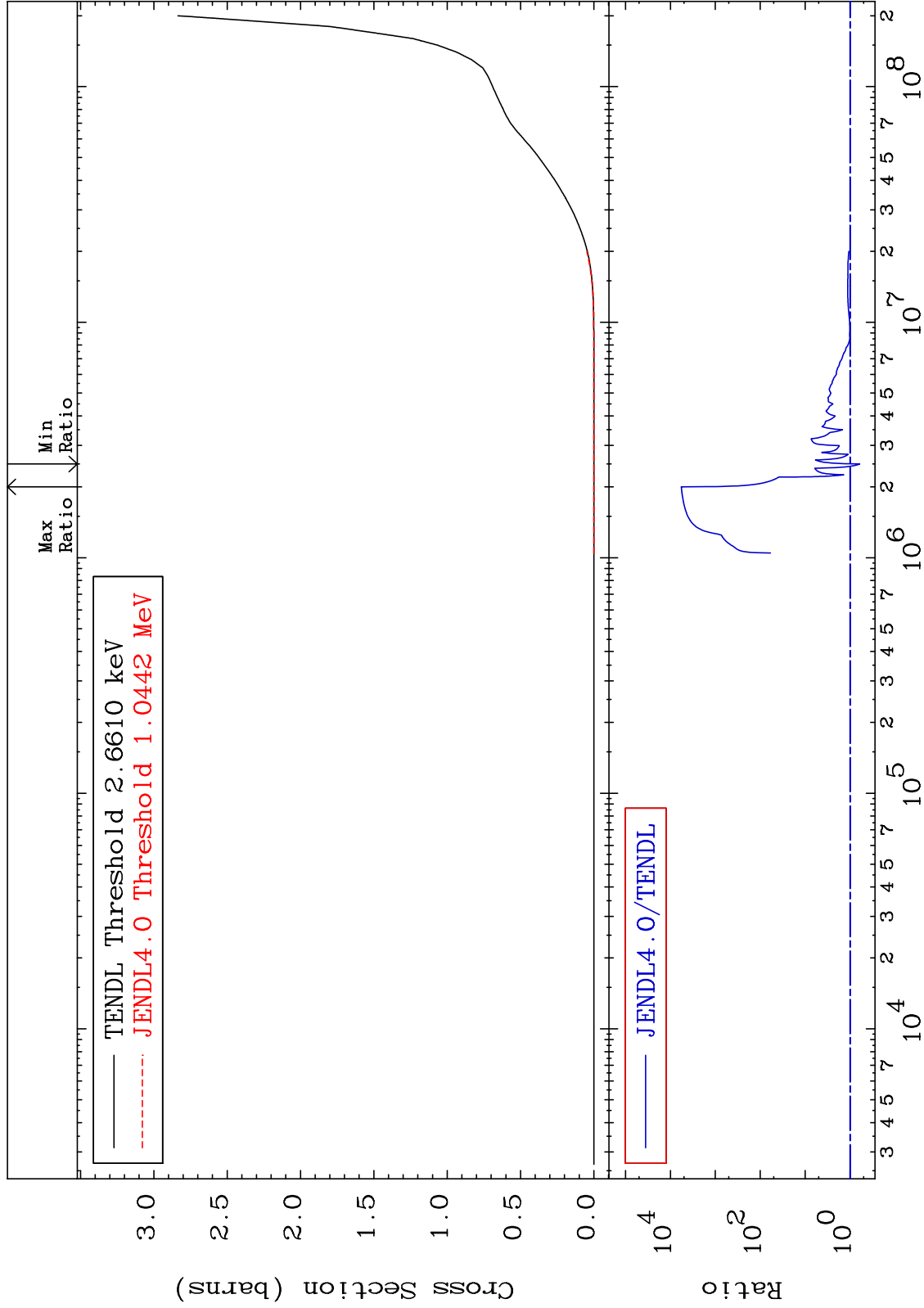
MAT 6425 $(n, 2\alpha)$ Cross Section 64-Gd-152 408.2 To 9999. %



MAT 6425

Hydrogen Production
Cross Section

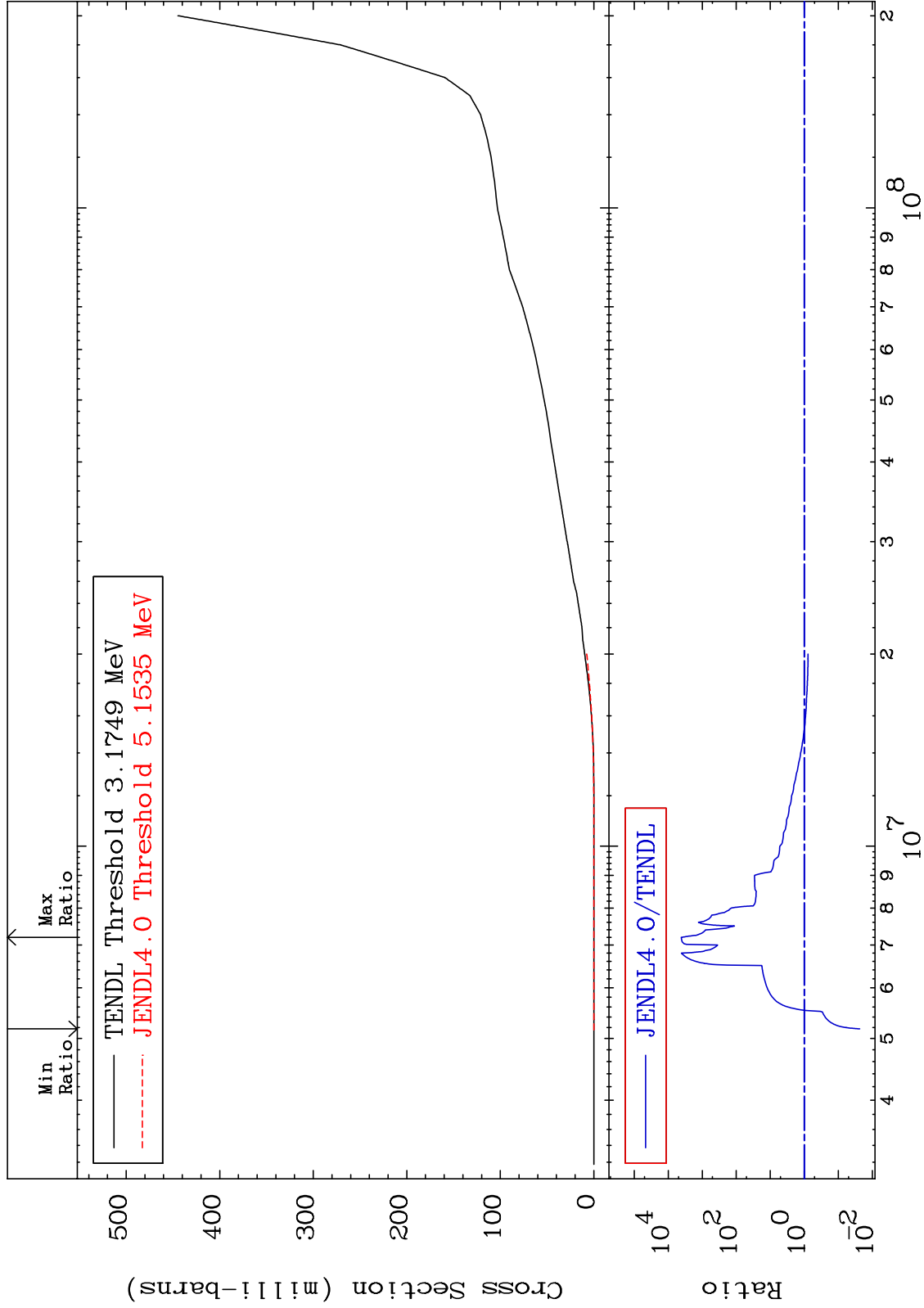
64-Gd-152
-38.91 To 9999. %

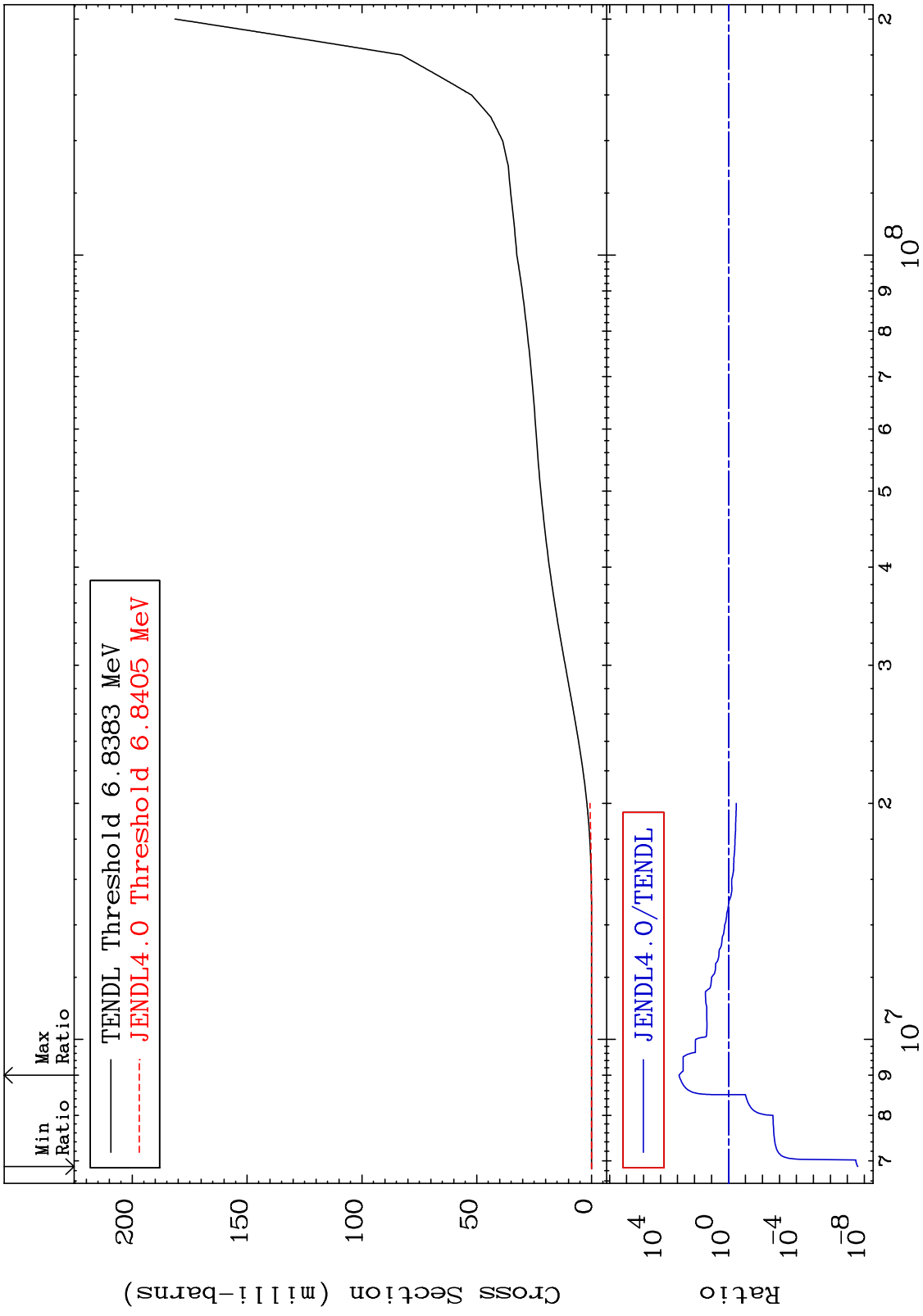


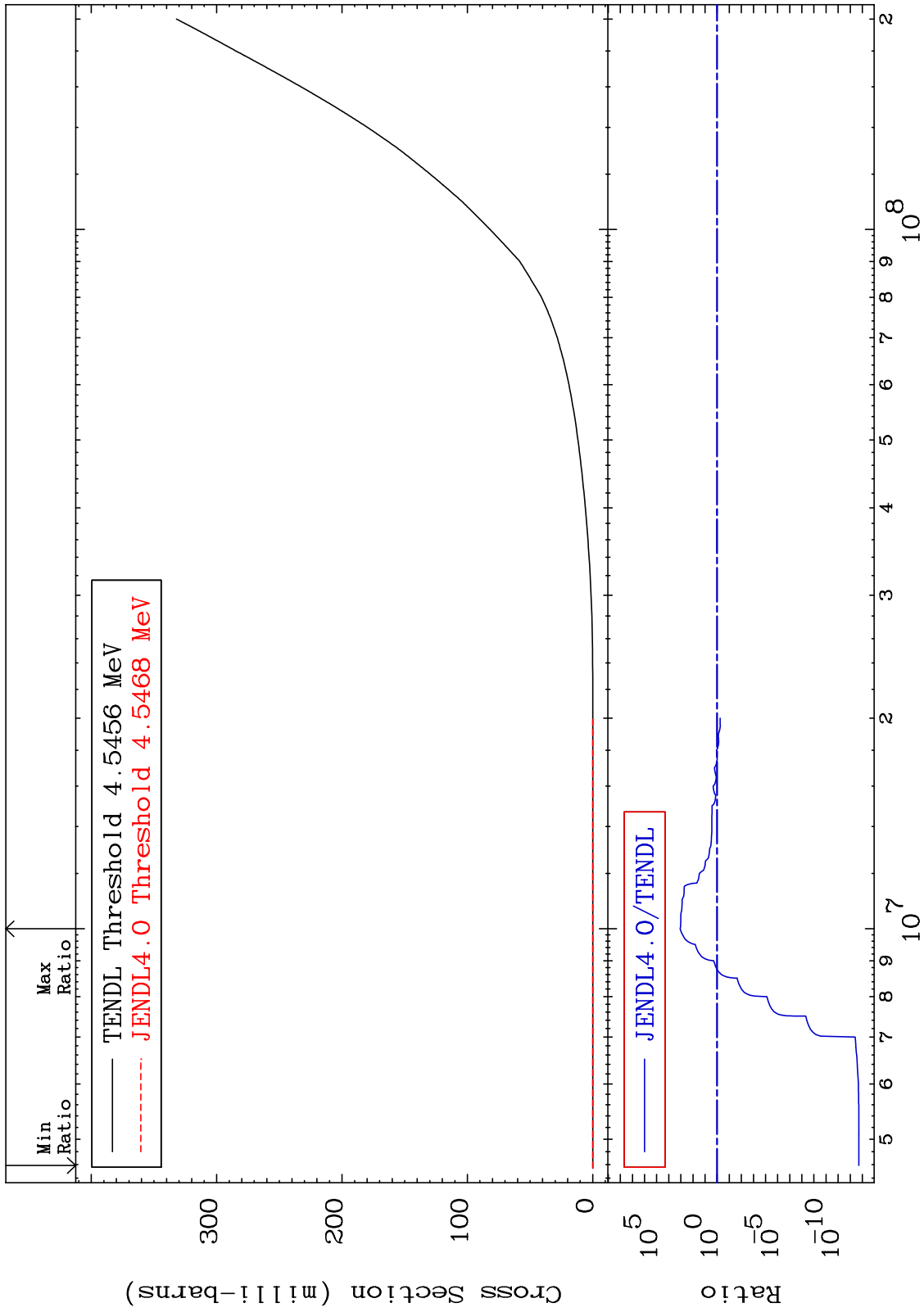
MAT 6425

Deuterium Production
Cross Section

64-Gd-152
-97.66 To 9999. %



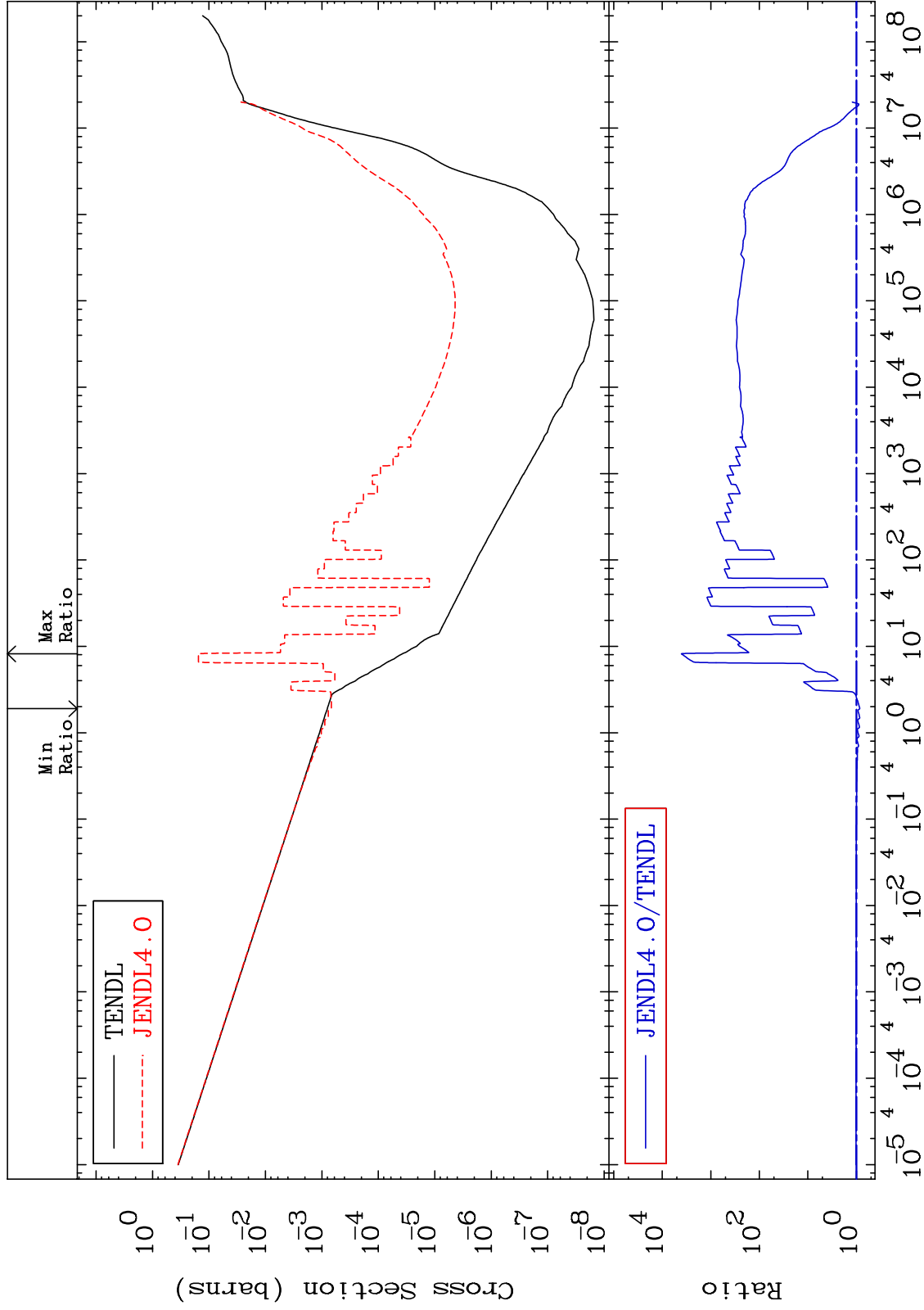




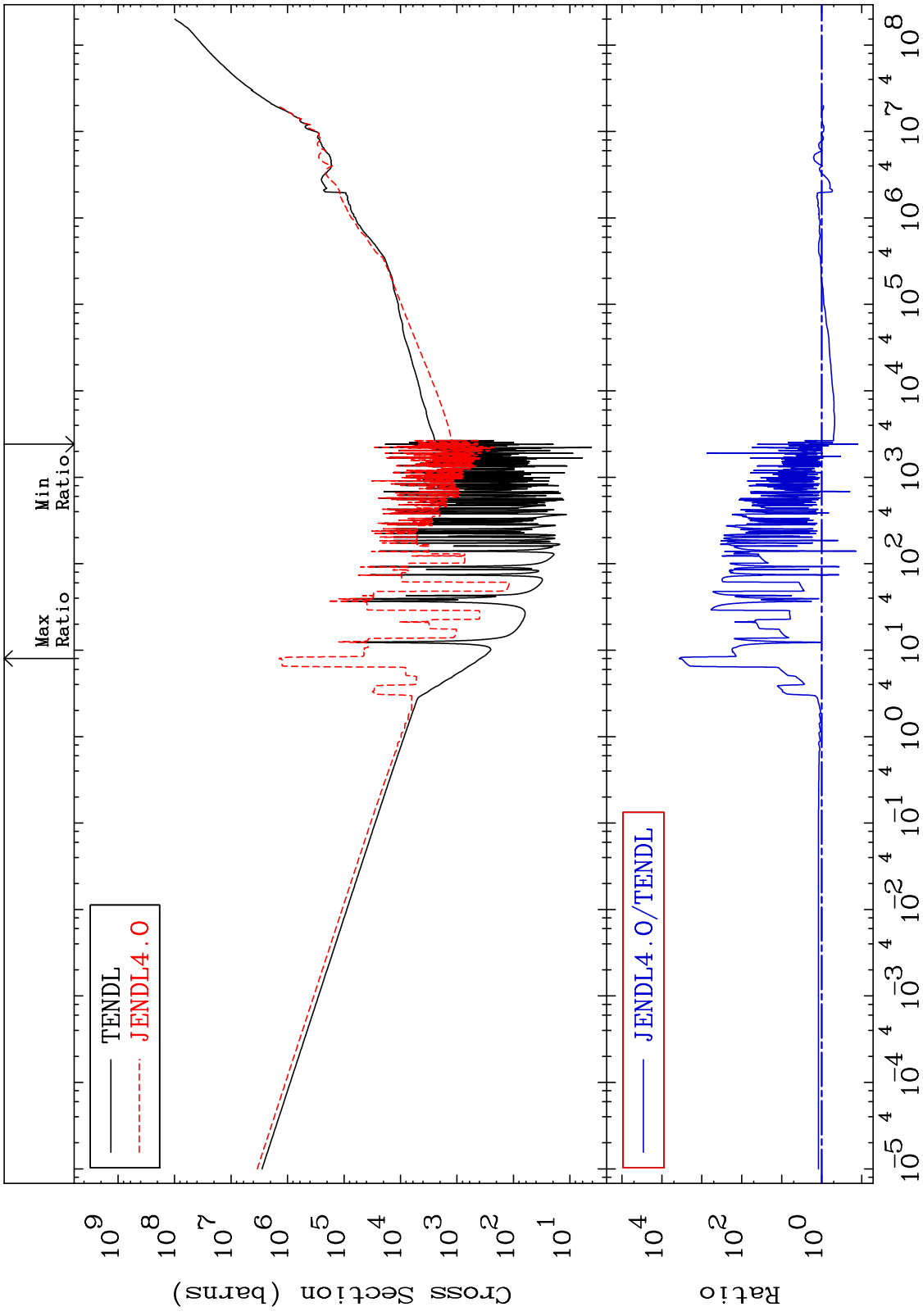
MAT 6425

He-4 Production
Cross Section

64-Gd-152
-14.72 To 9999. %



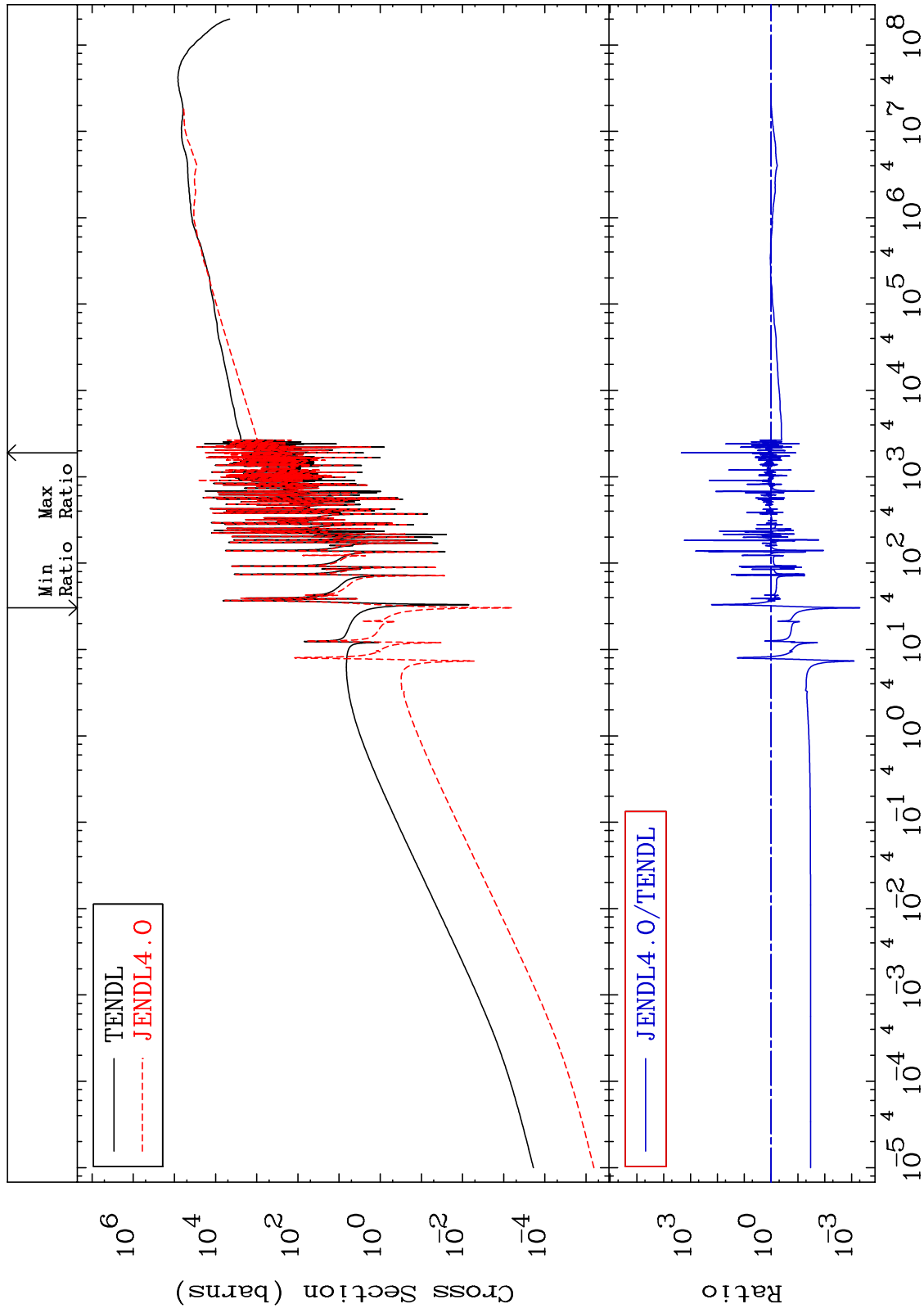
MAT 6425 Kerma total (eV-barns) 64-Gd-152
 Cross Section -87.52 To 9999. %



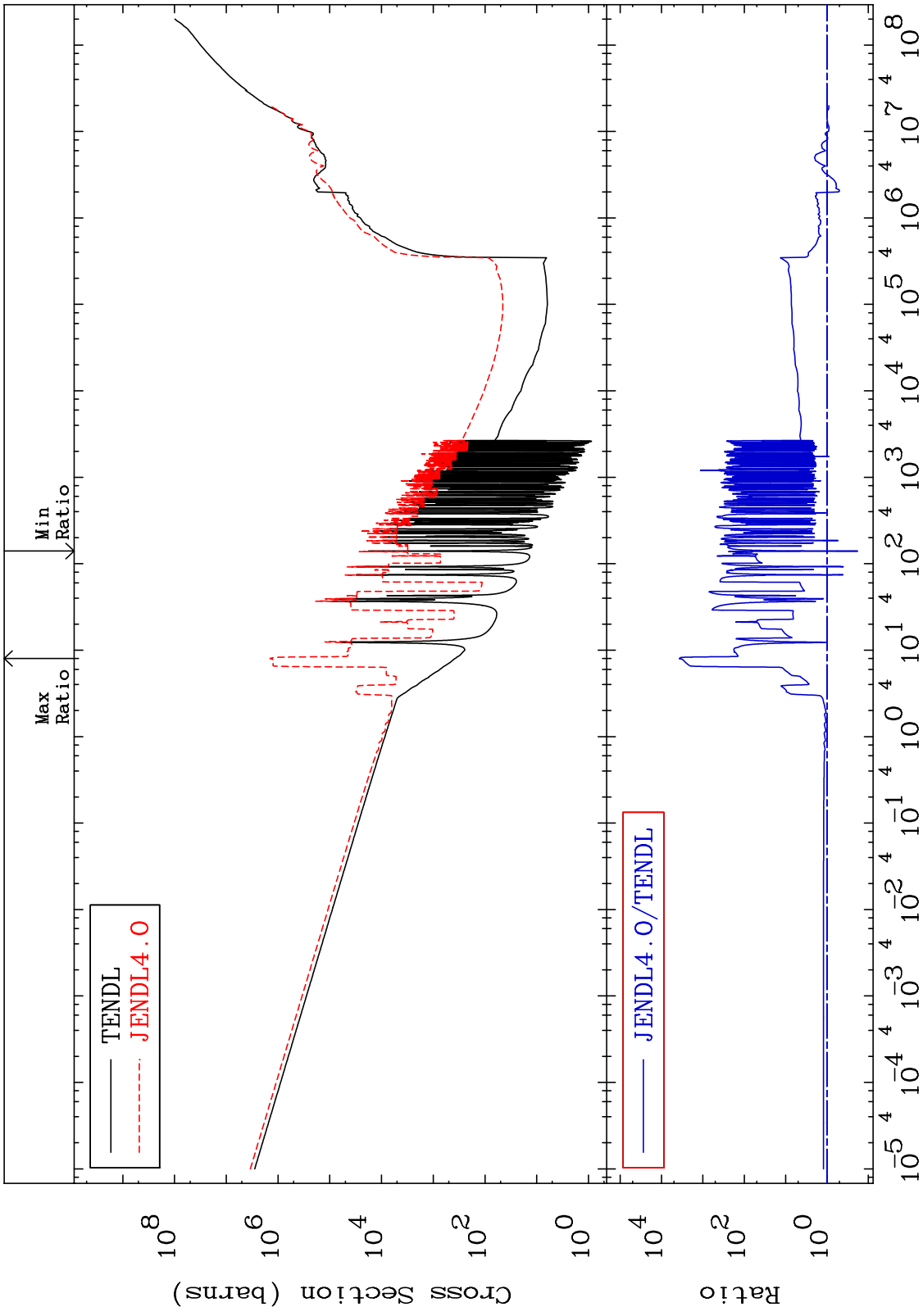
MAT 6425

Kerma elastic
Cross Section

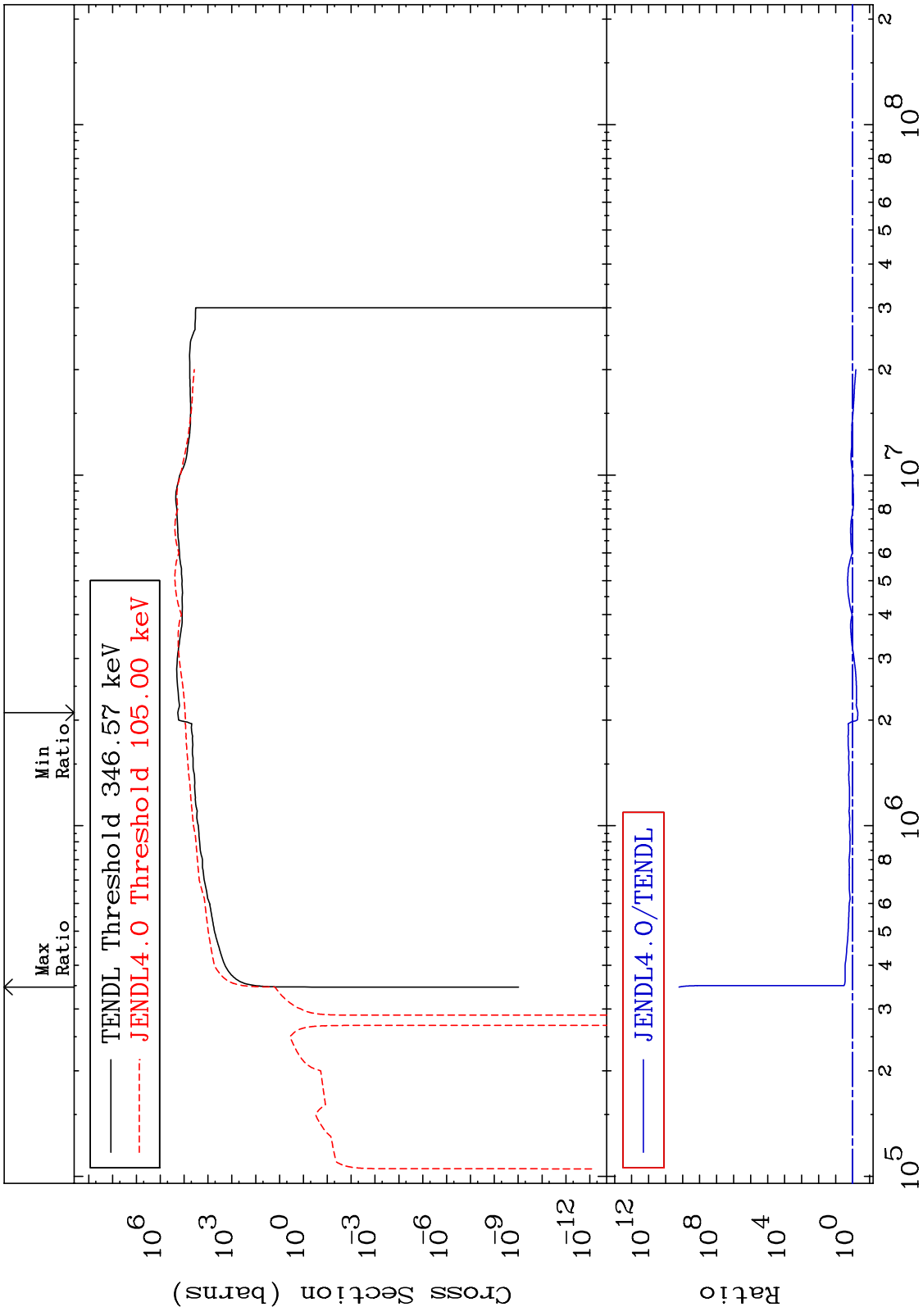
64-Gd-152
-99.95 To 9999. %



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

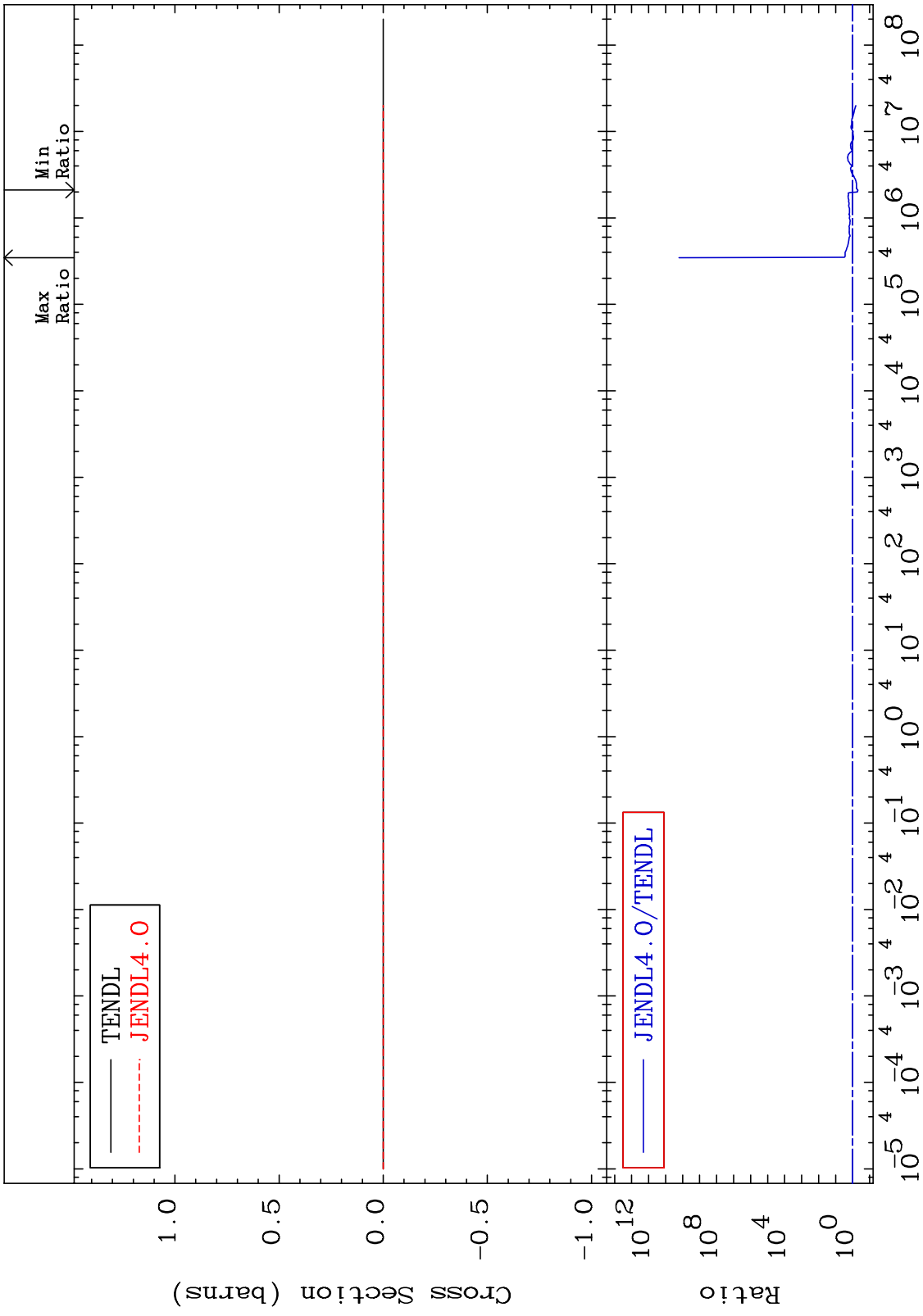


MAT 6425 Kerma inelastic (mt51-91) 64-Gd-152
 Cross Section -50.63 To 9999. %



59 Incident Energy (eV) 64-Gd-152

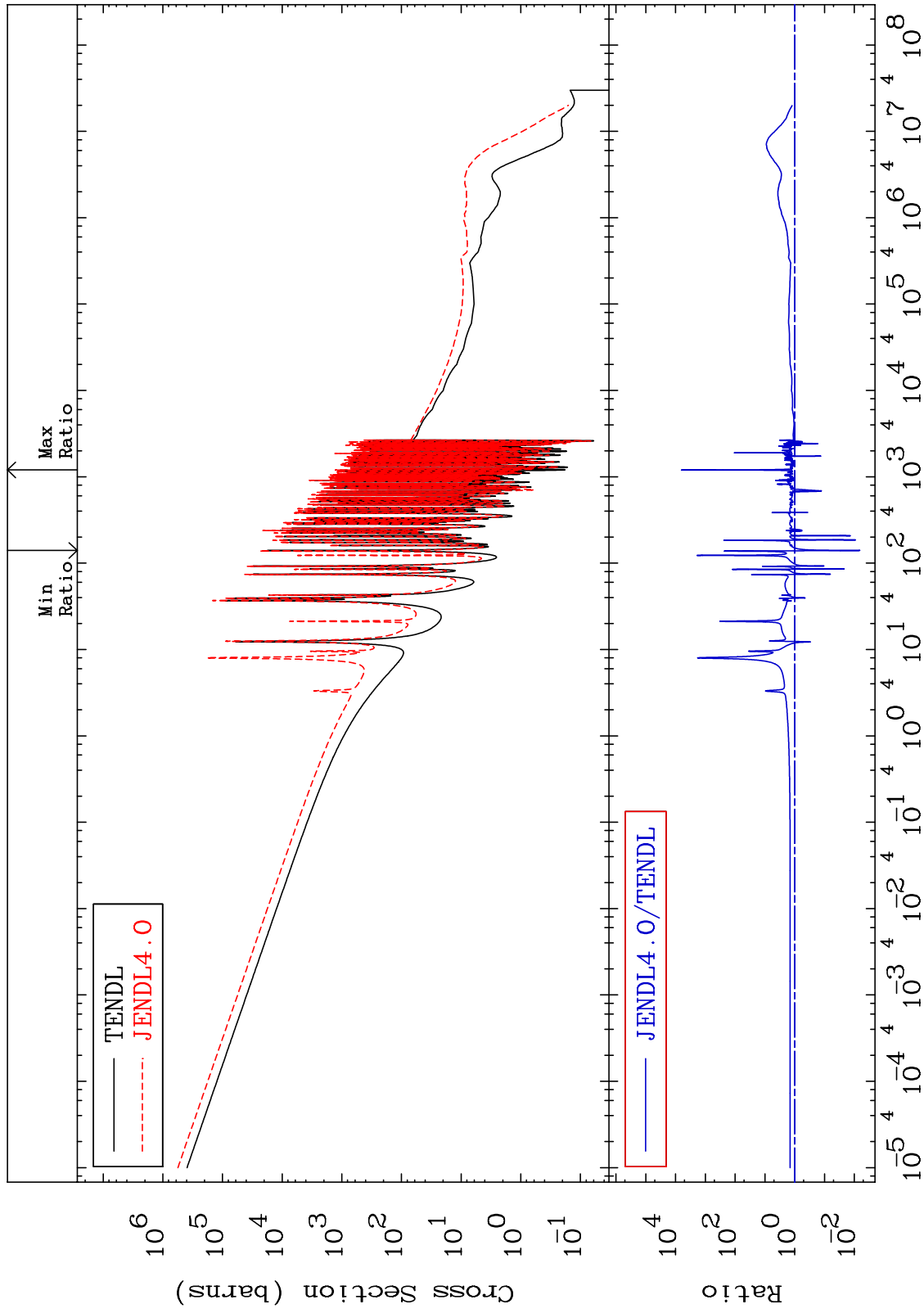
MAT 6425 Kerma fission (mt18 or mt19-20-21-38) 64-Gd-152
 Cross Section -50.63 To 9999. %



MAT 6425

Kerma capture (mt102)
Cross Section

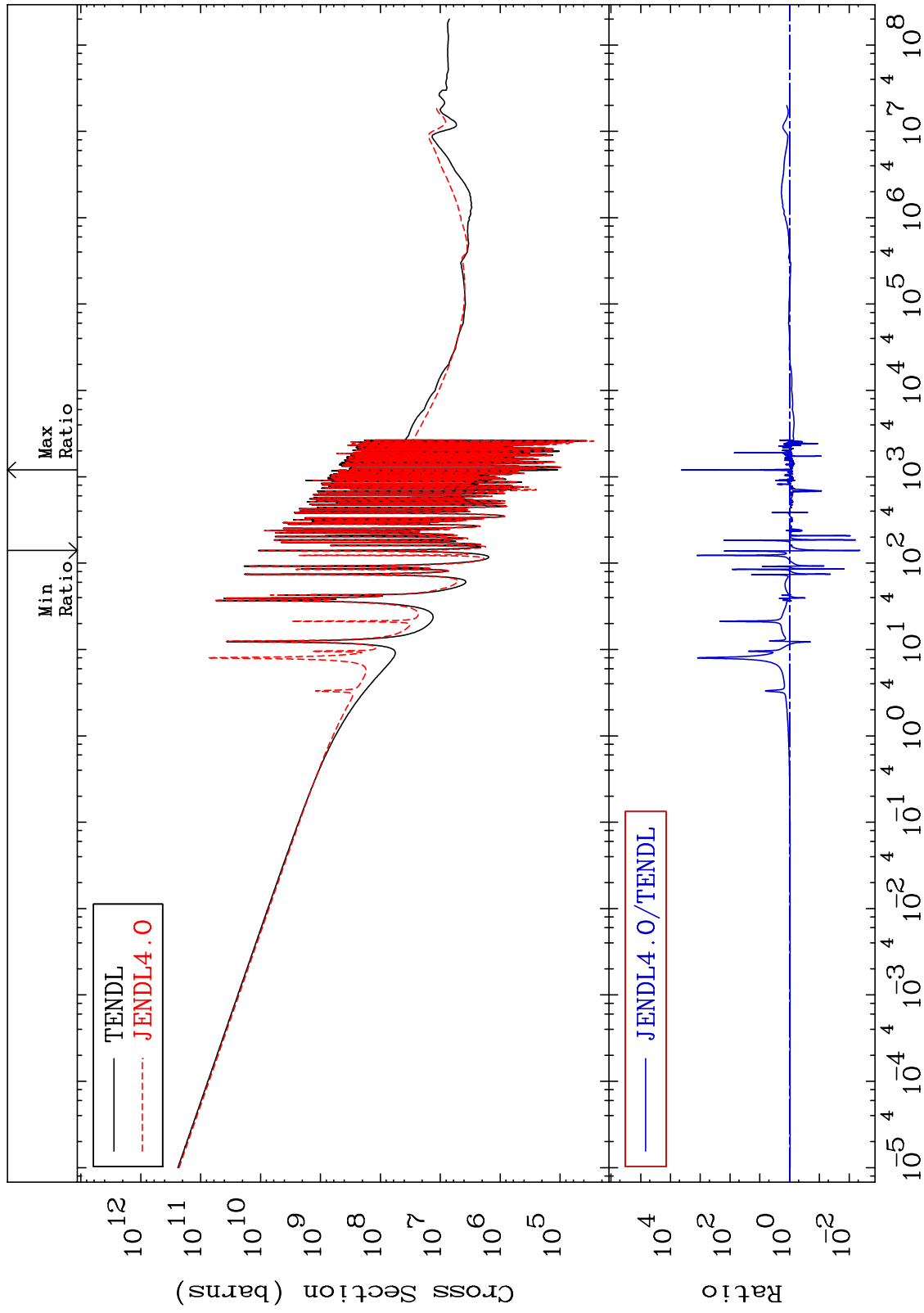
64-Gd-152
-99.34 To 9999. %



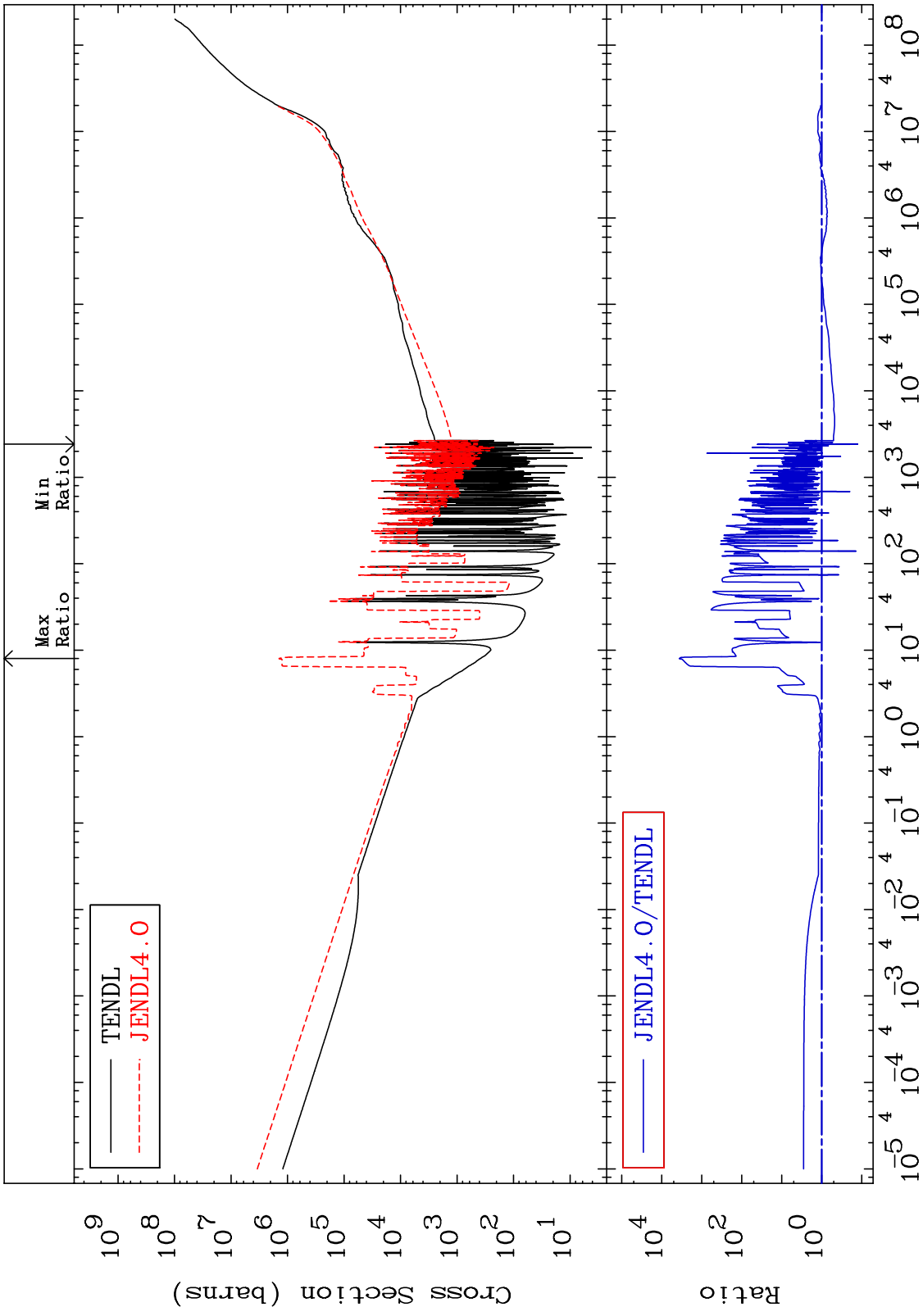
MAT 6425

Total photon (eV-barns)
Cross Section

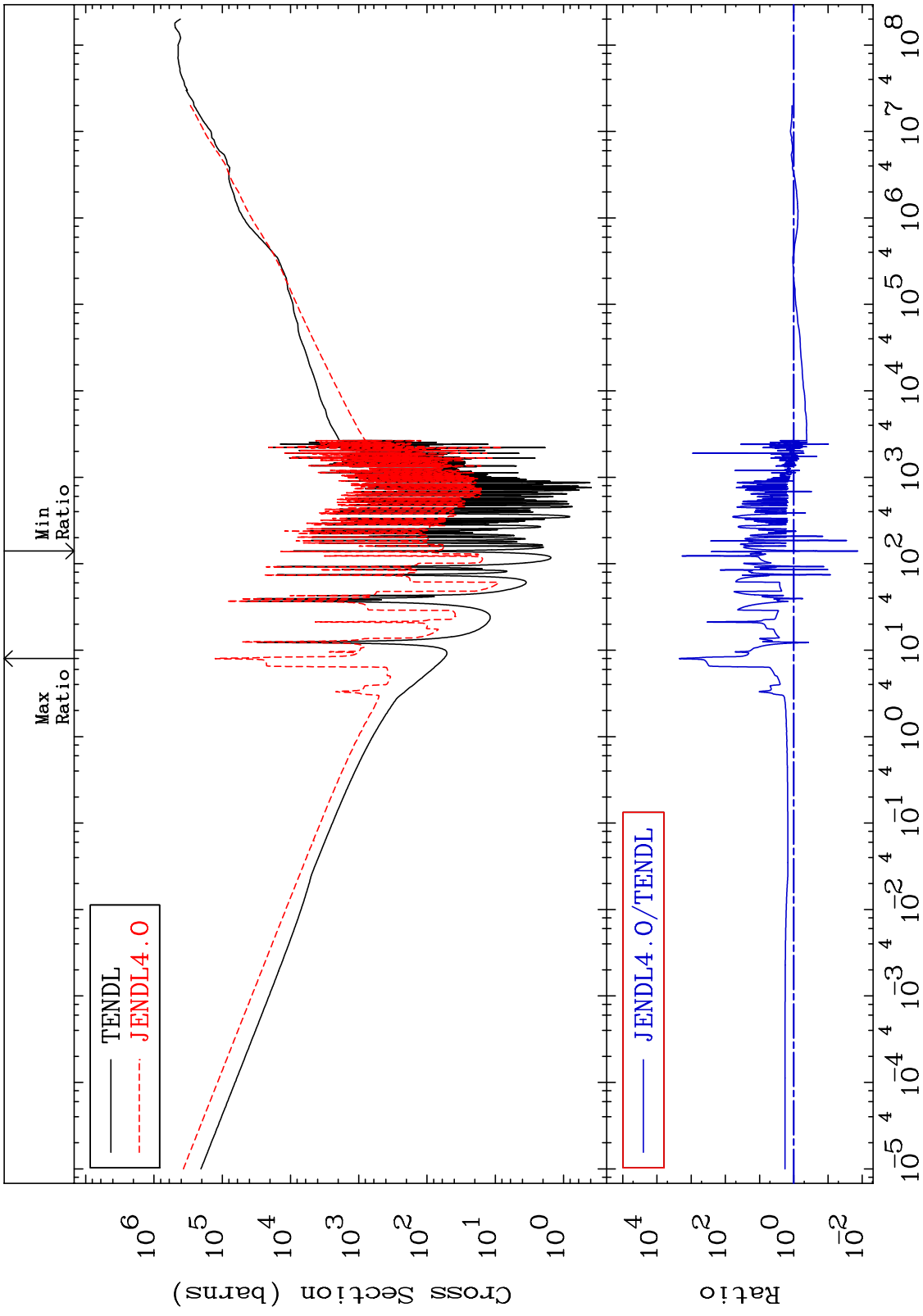
64-Gd-152
-99.56 To 9999. %



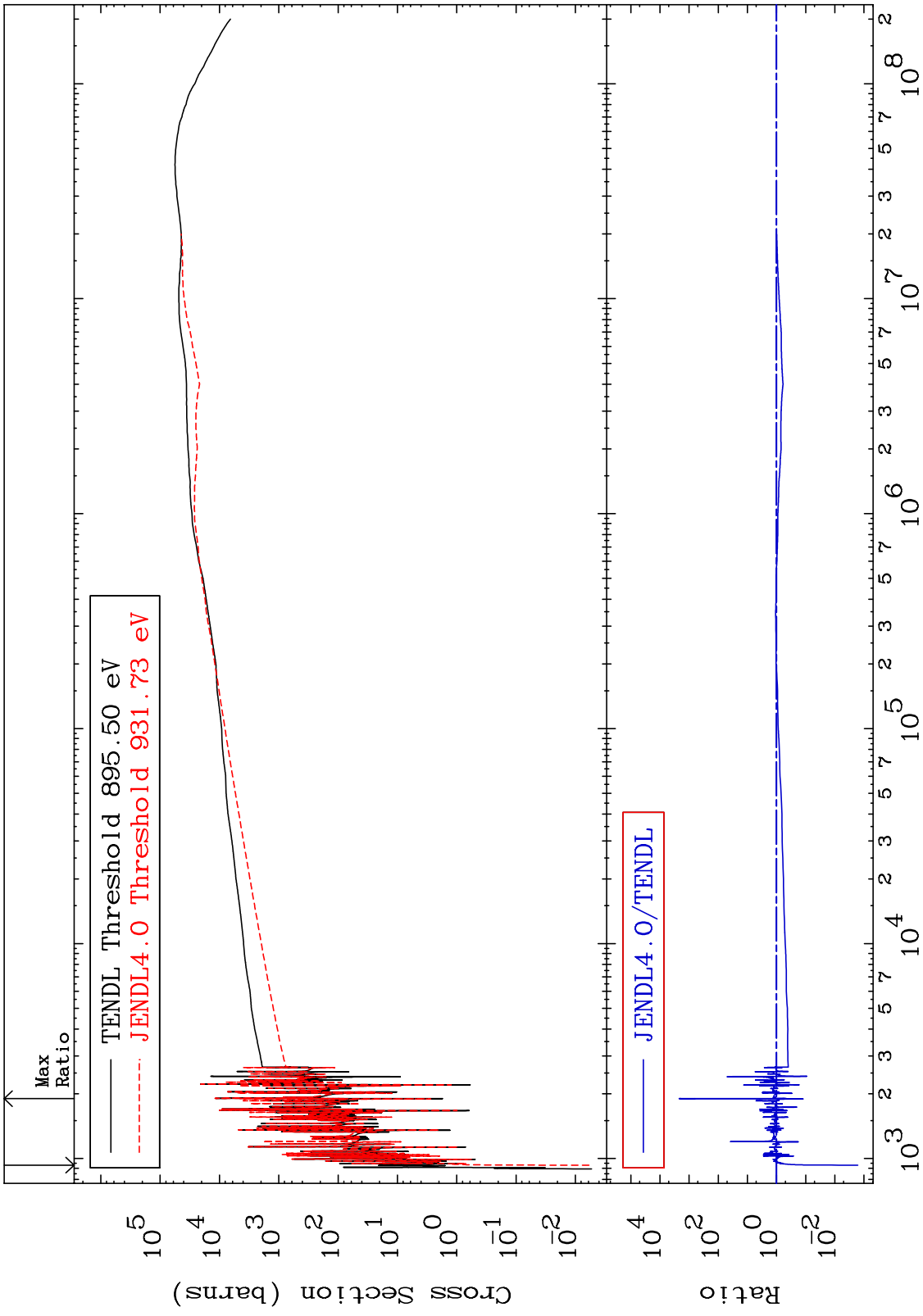
MAT 6425 Total kinematic kerma (high limit) 64-Gd-152
Cross Section -87.52 To 9999. %



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



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

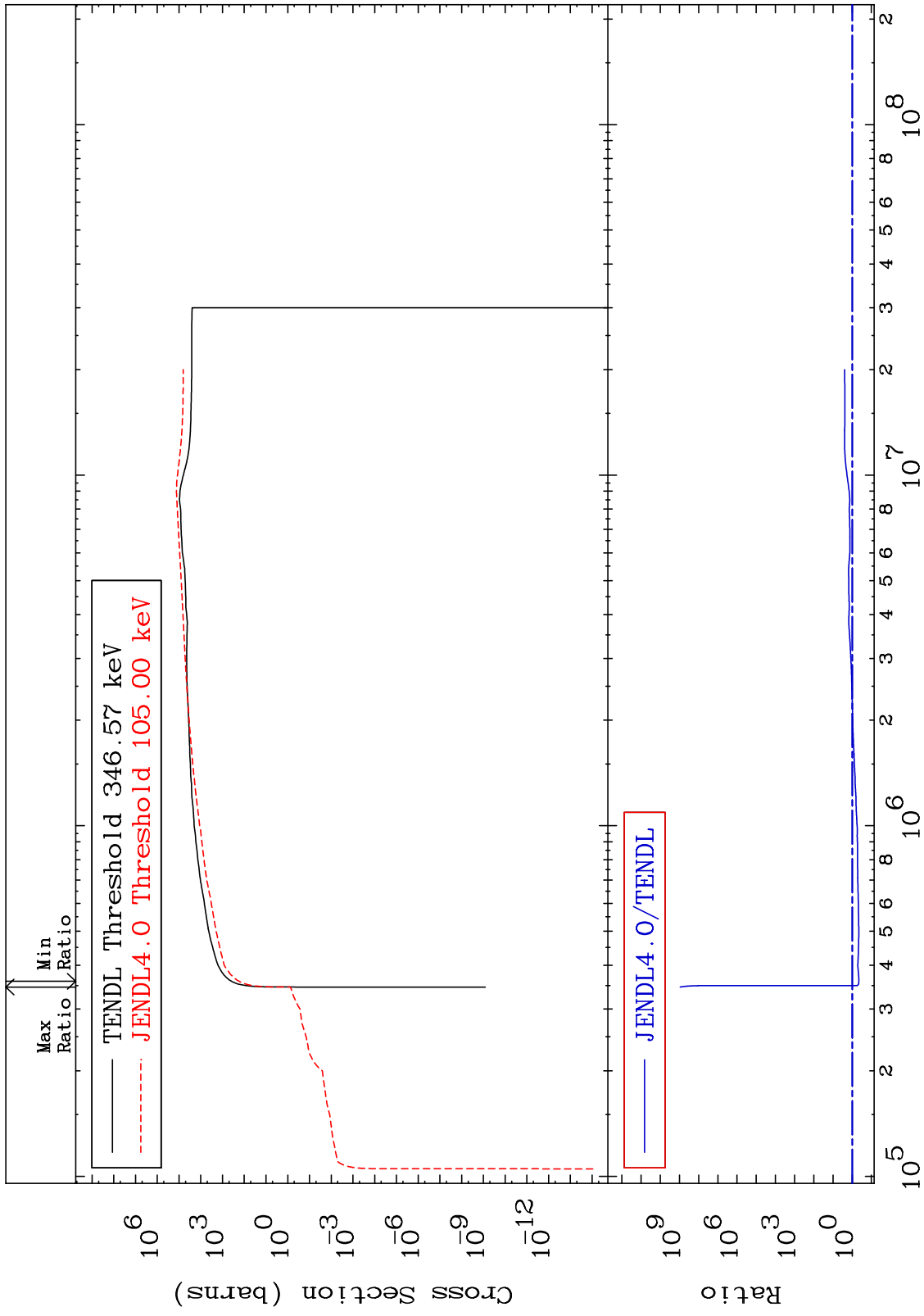


65 64-Gd-152

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. %

