

Program Complot
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

U.S.A.

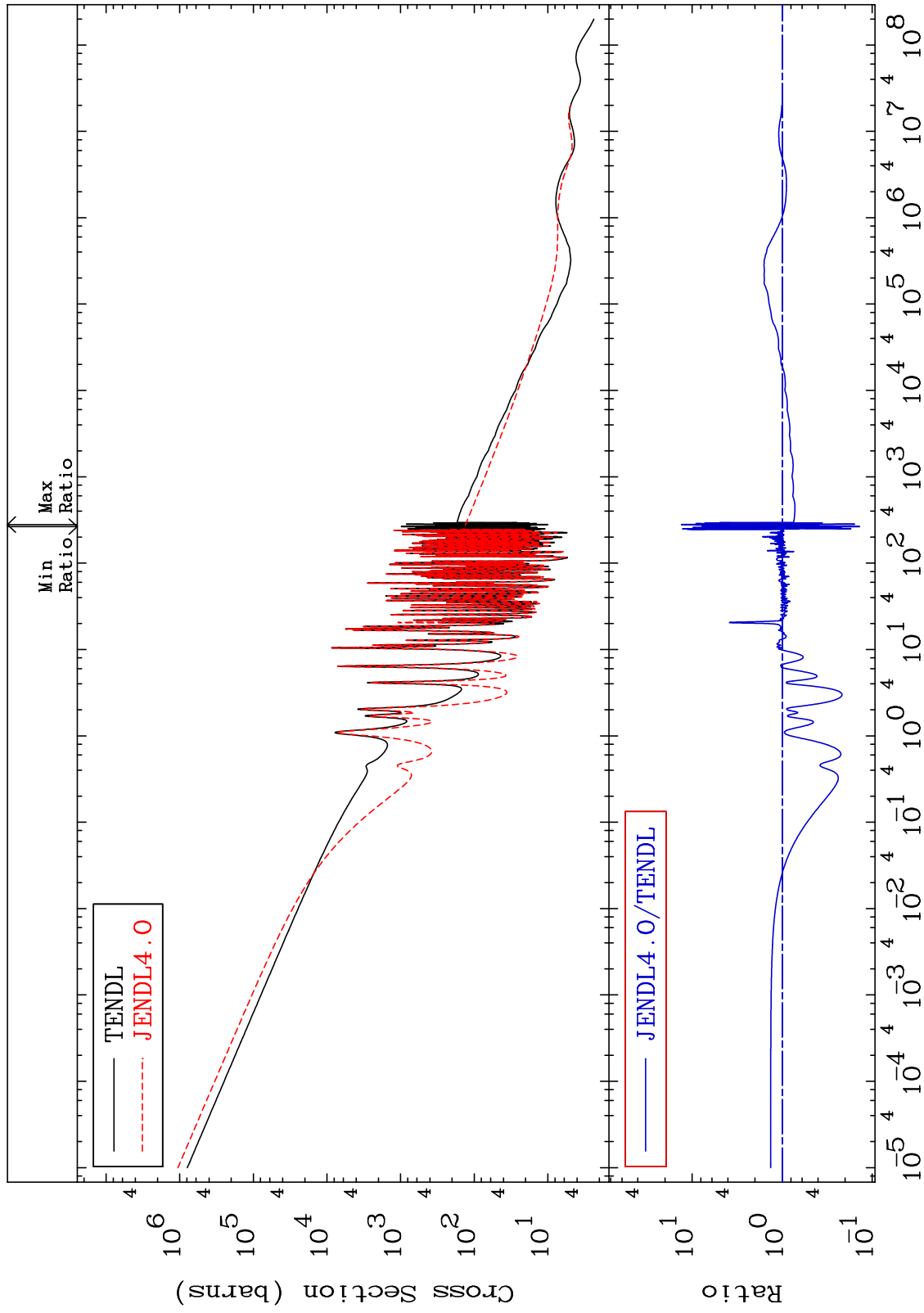
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 6246

Total Cross Section
62-Sm-151
-86.25 To 1218. %

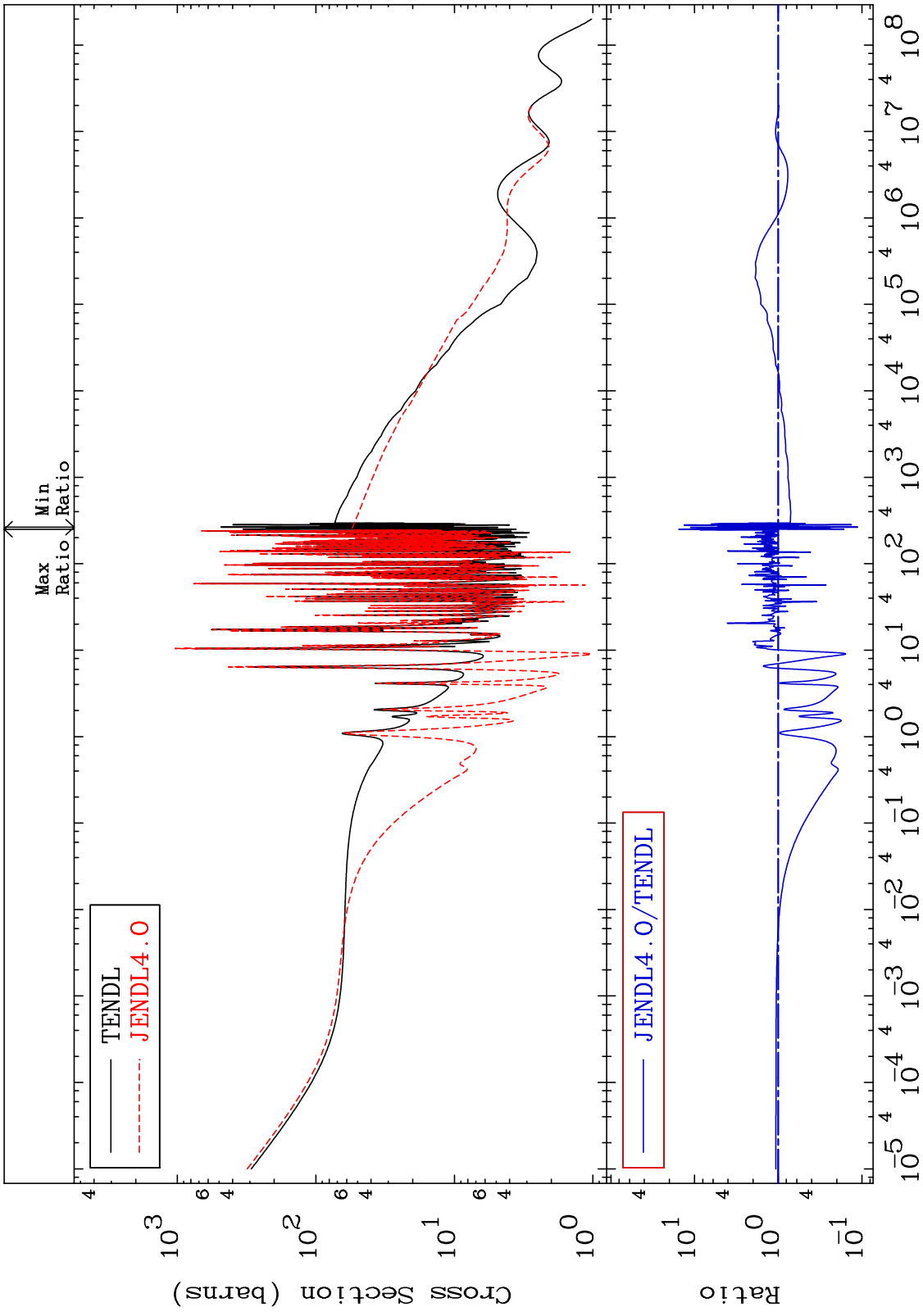


1

Incident Energy (eV)

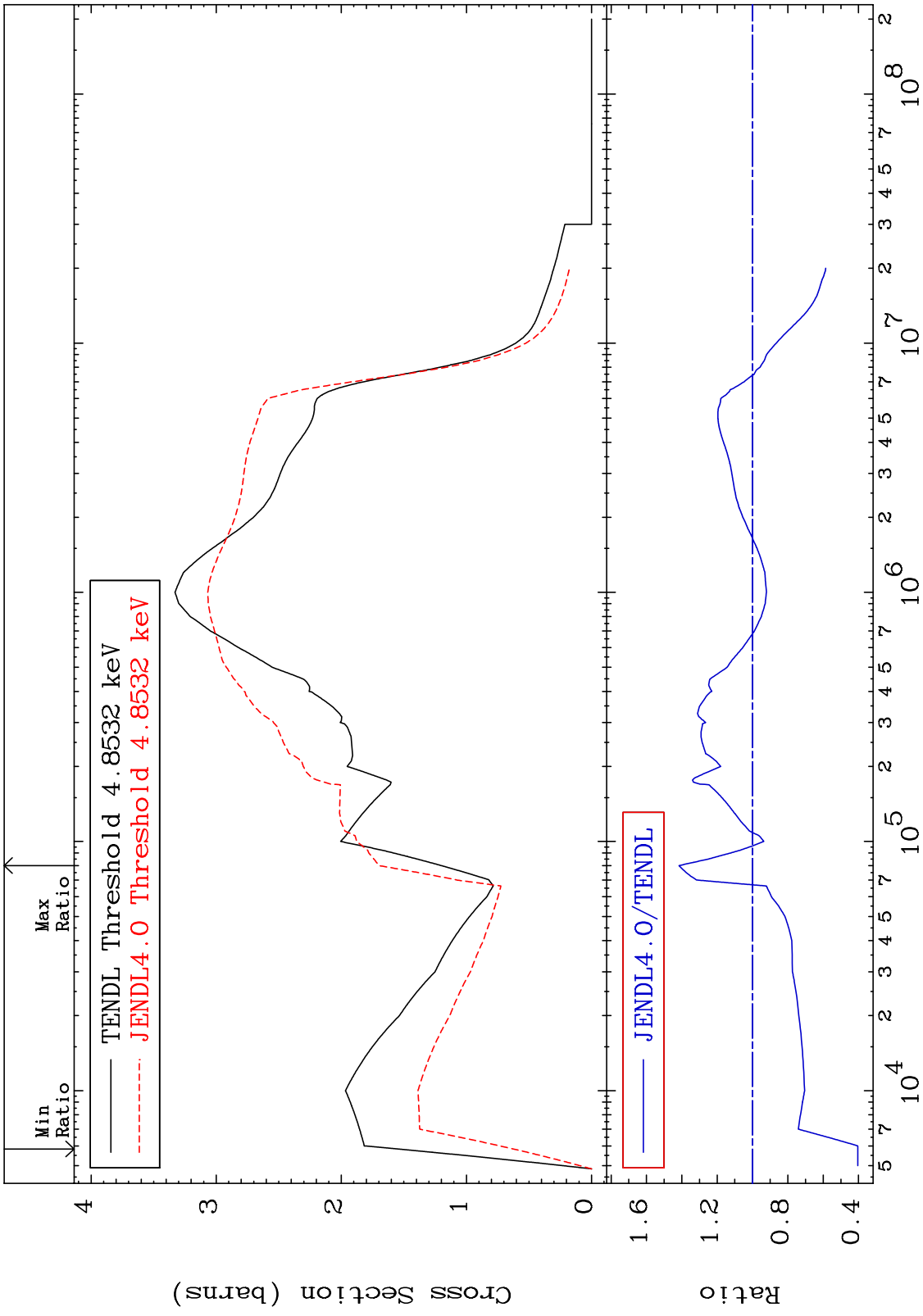
62-Sm-151

MAT 6246 Elastic Cross Section 62-Sm-151 -88.79 To 1434. %

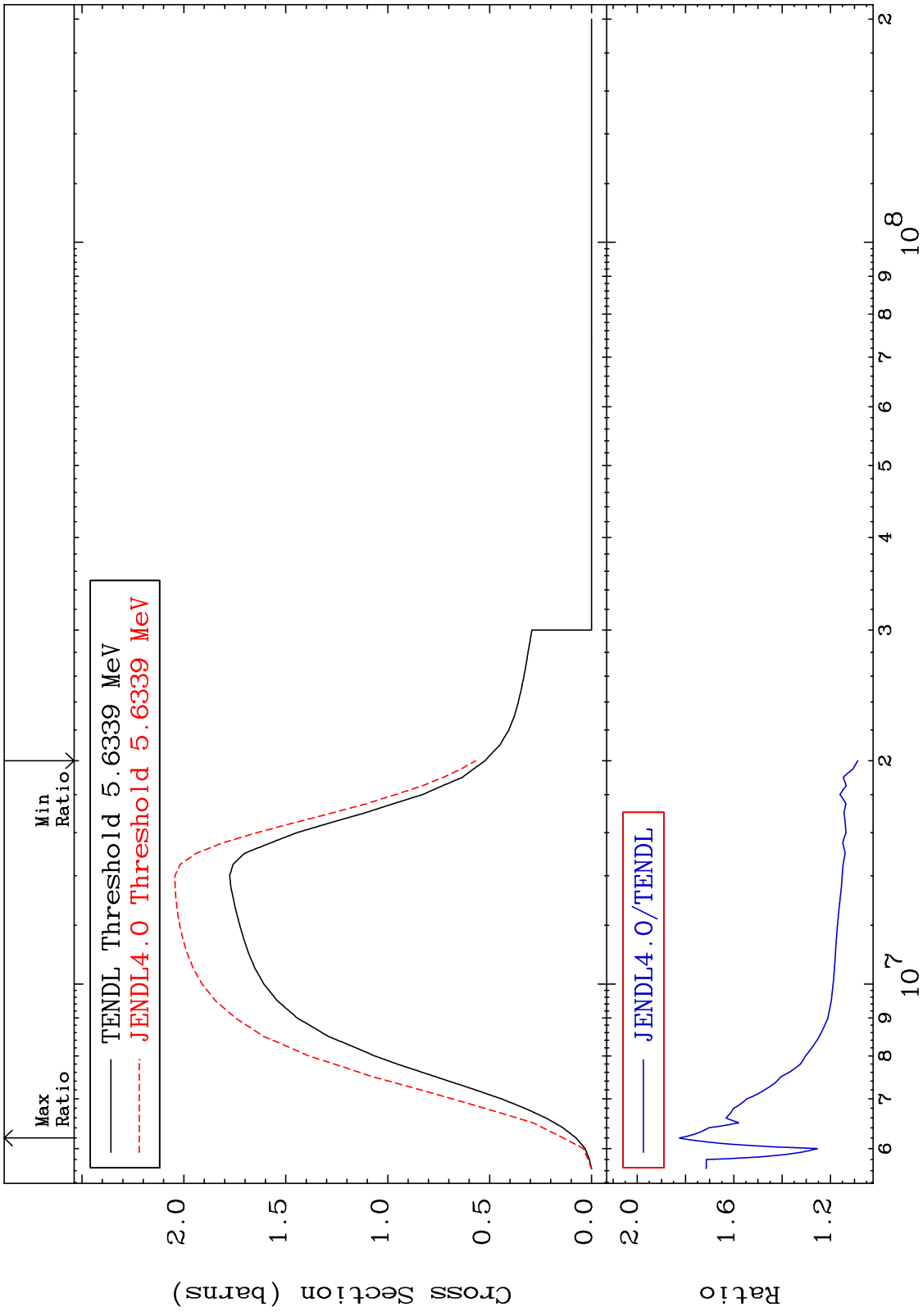


2 62-Sm-151

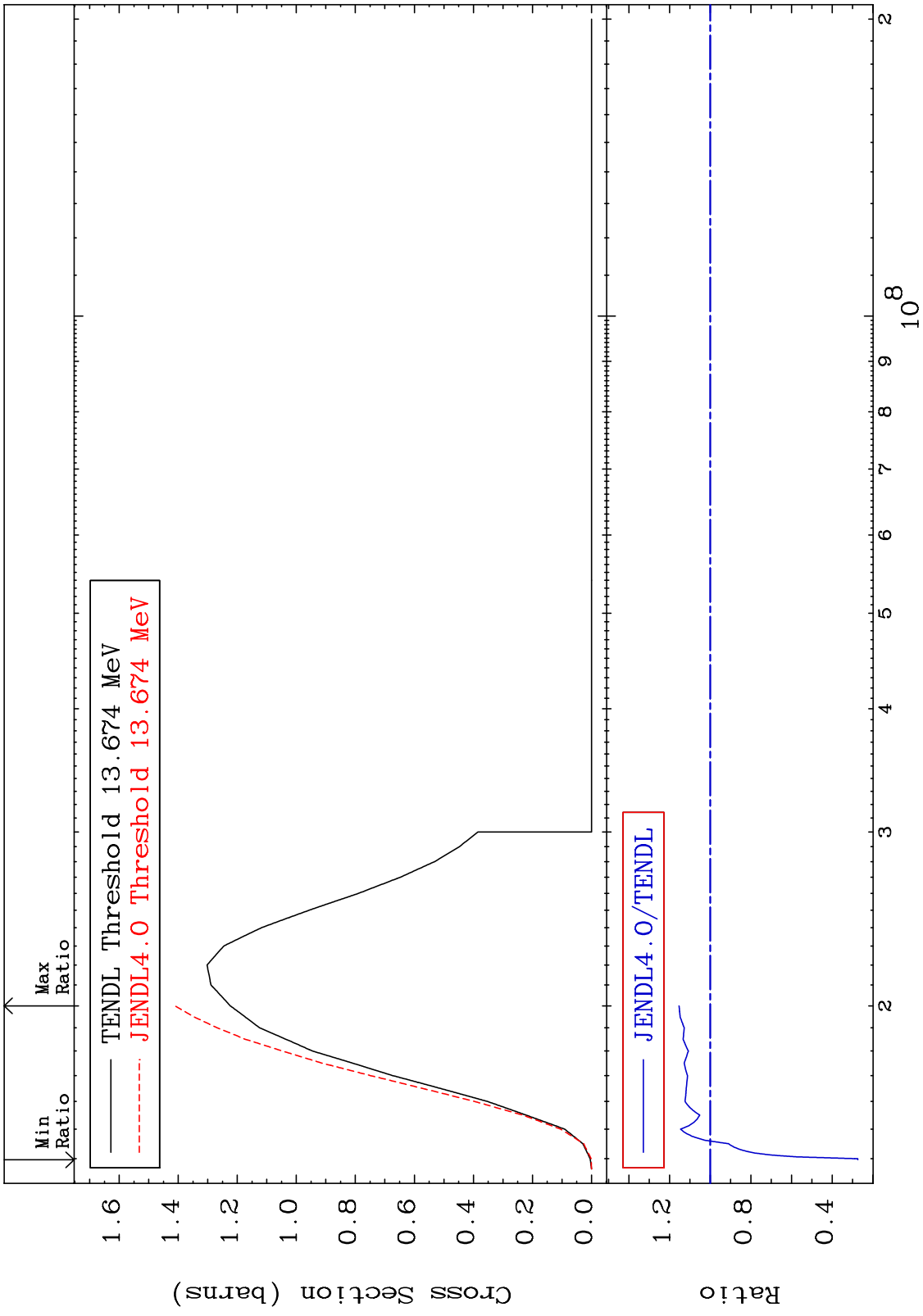
MAT 6246 Inelastic Cross Section 62-Sm-151 -59.60 To 41.56 %



MAT 6246 (n,2n) Cross Section 62-Sm-151 To 82.69 %



MAT 6246 (n,3n) Cross Section 62-Sm-151 -72.60 To 15.32 %



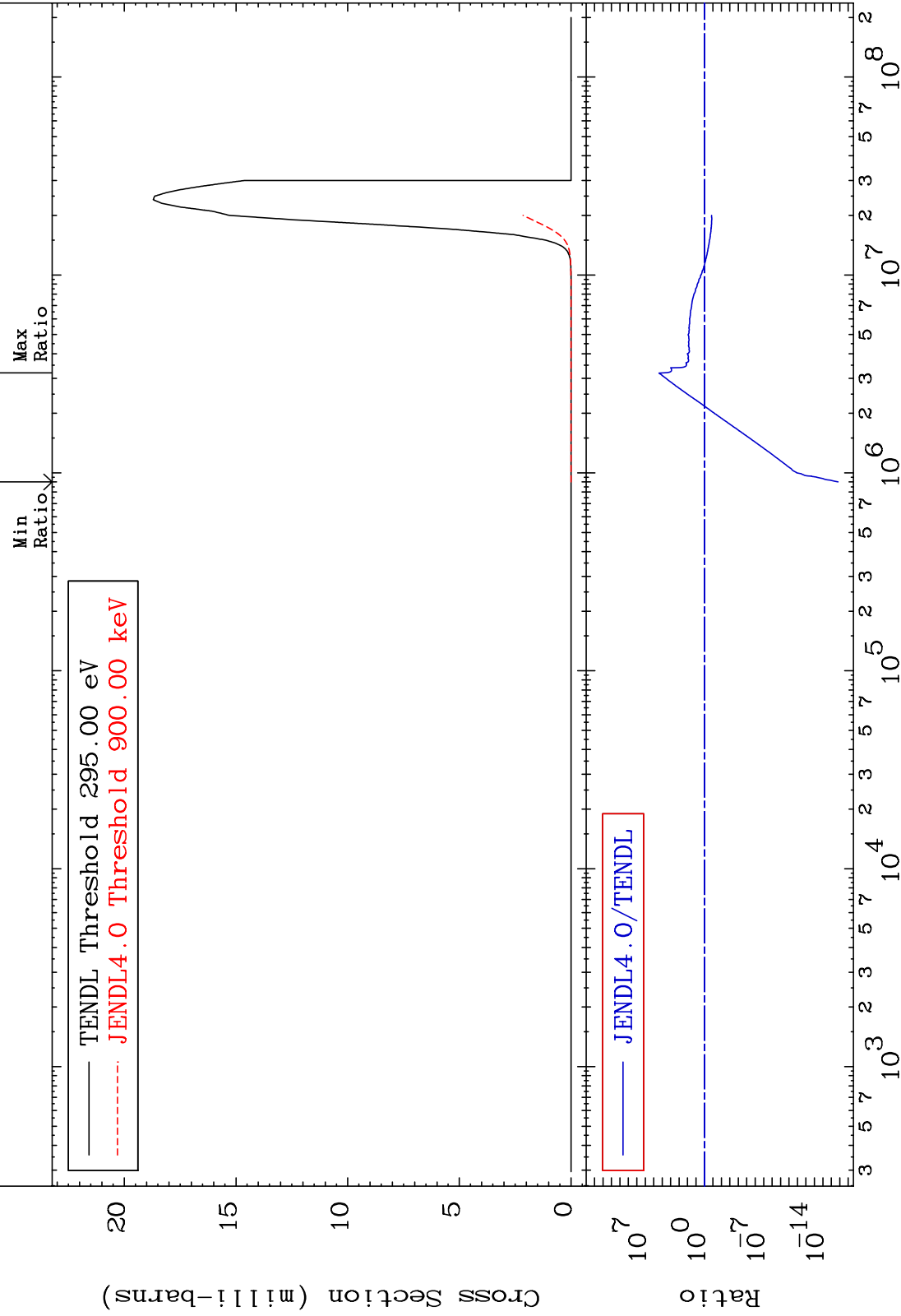
MAT 6246

(n, n') α

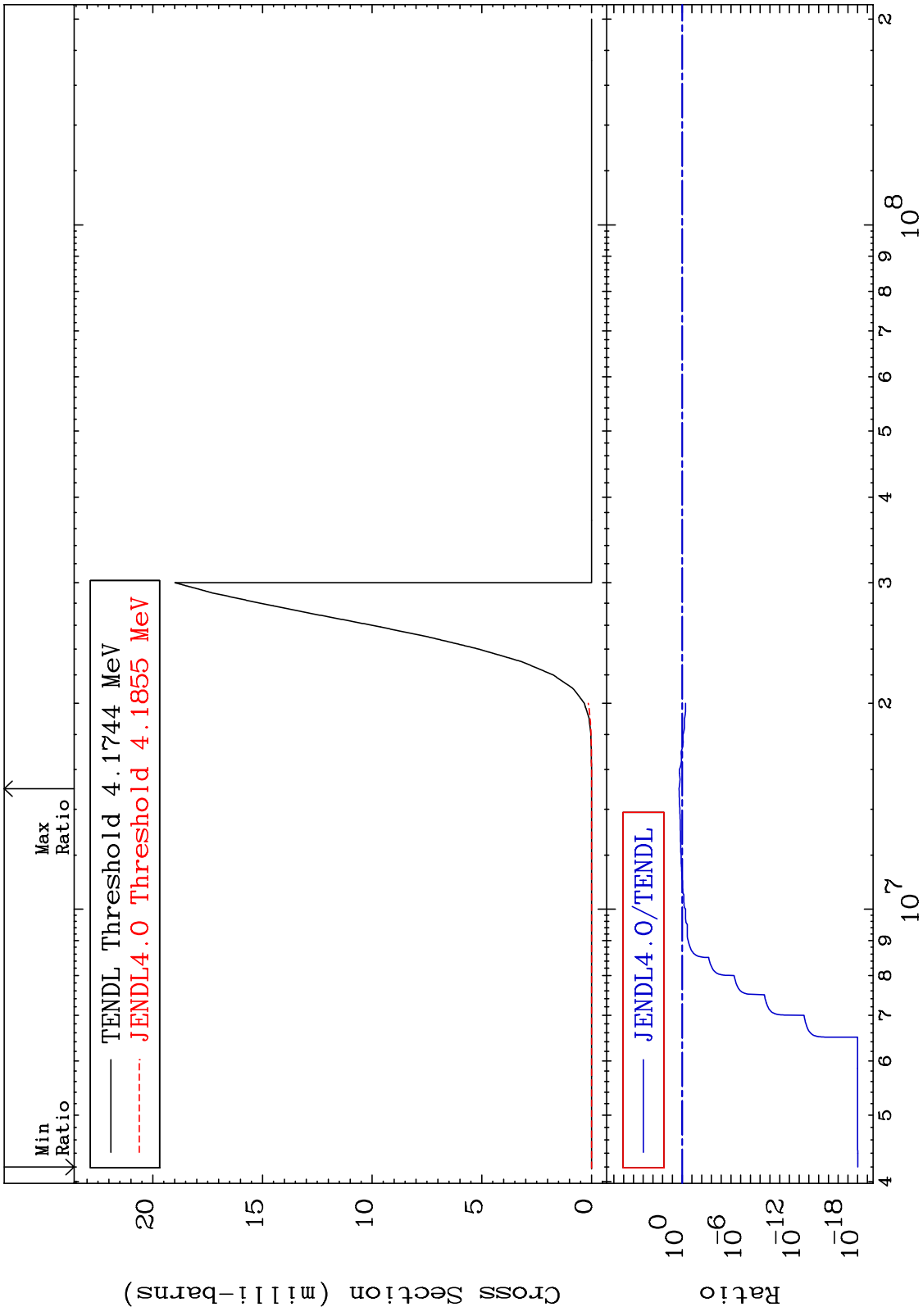
62-Sm-151

-100.0 To 9999. %

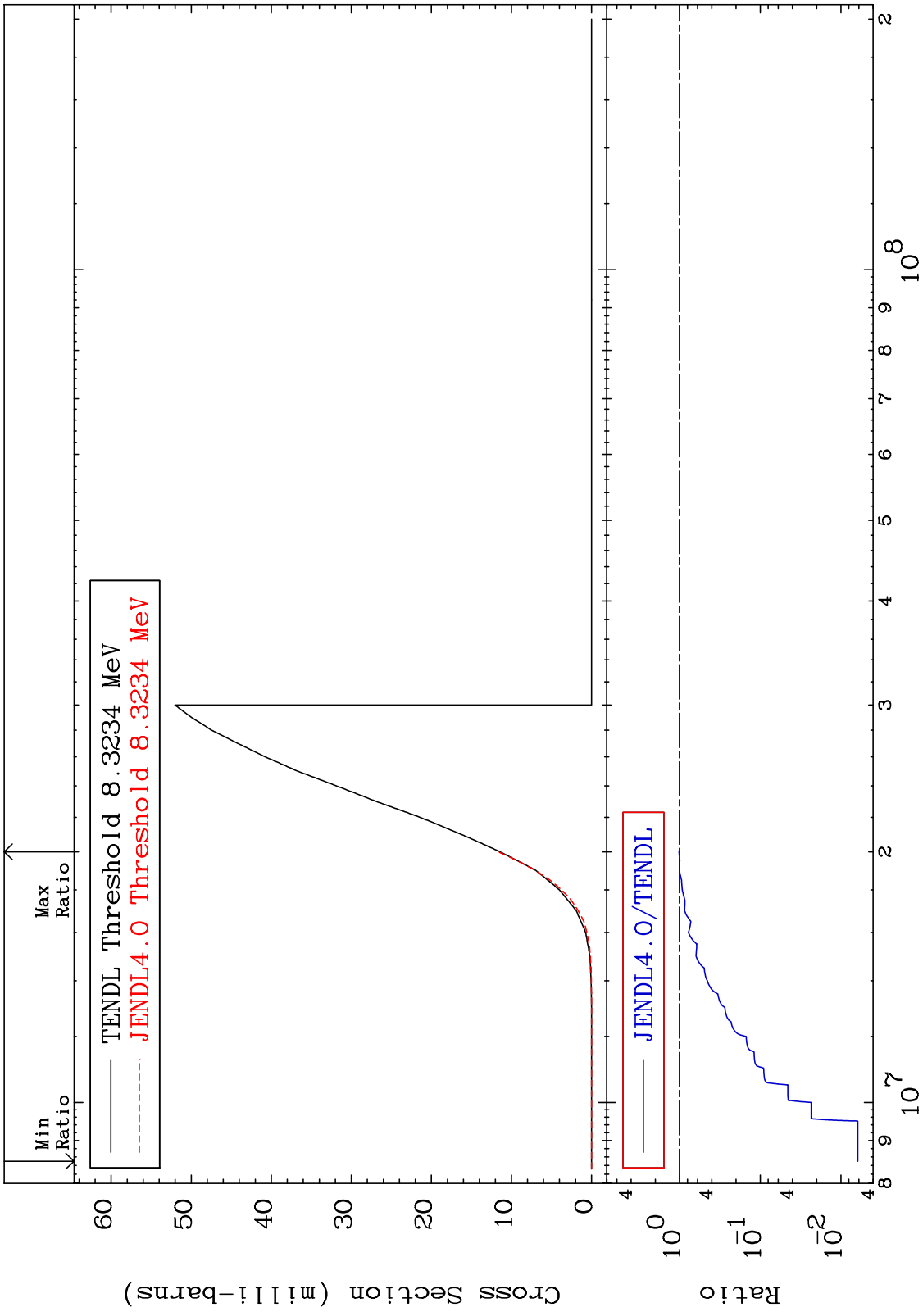
Cross Section



MAT 6246 $(n, 2n) \alpha$ 62-Sm-151
 -100.0 To 108.6 %
 Cross Section

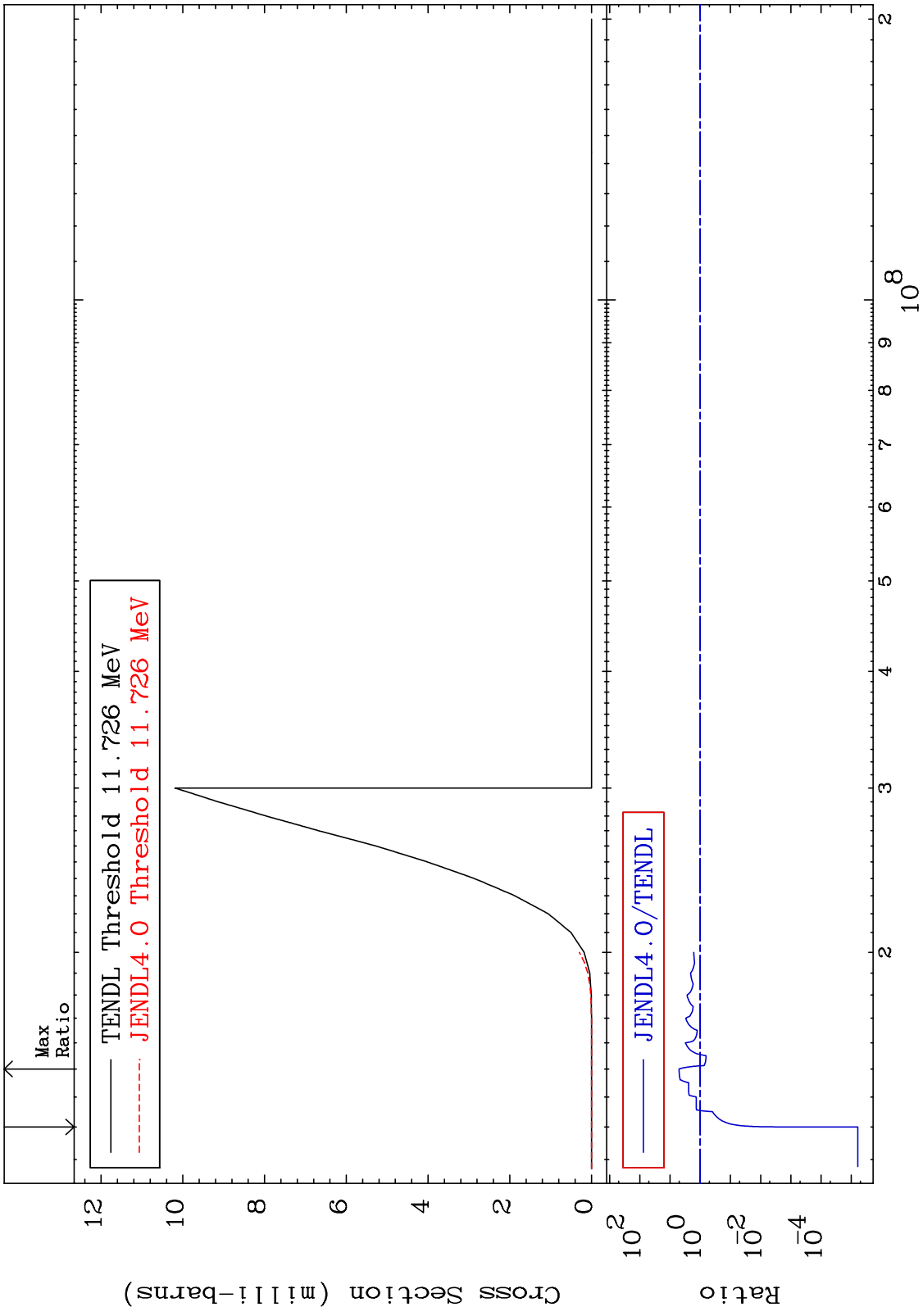


MAT 6246 62-Sm-151
-99.38 To 1.974 %
 (n,n') p
 Cross Section

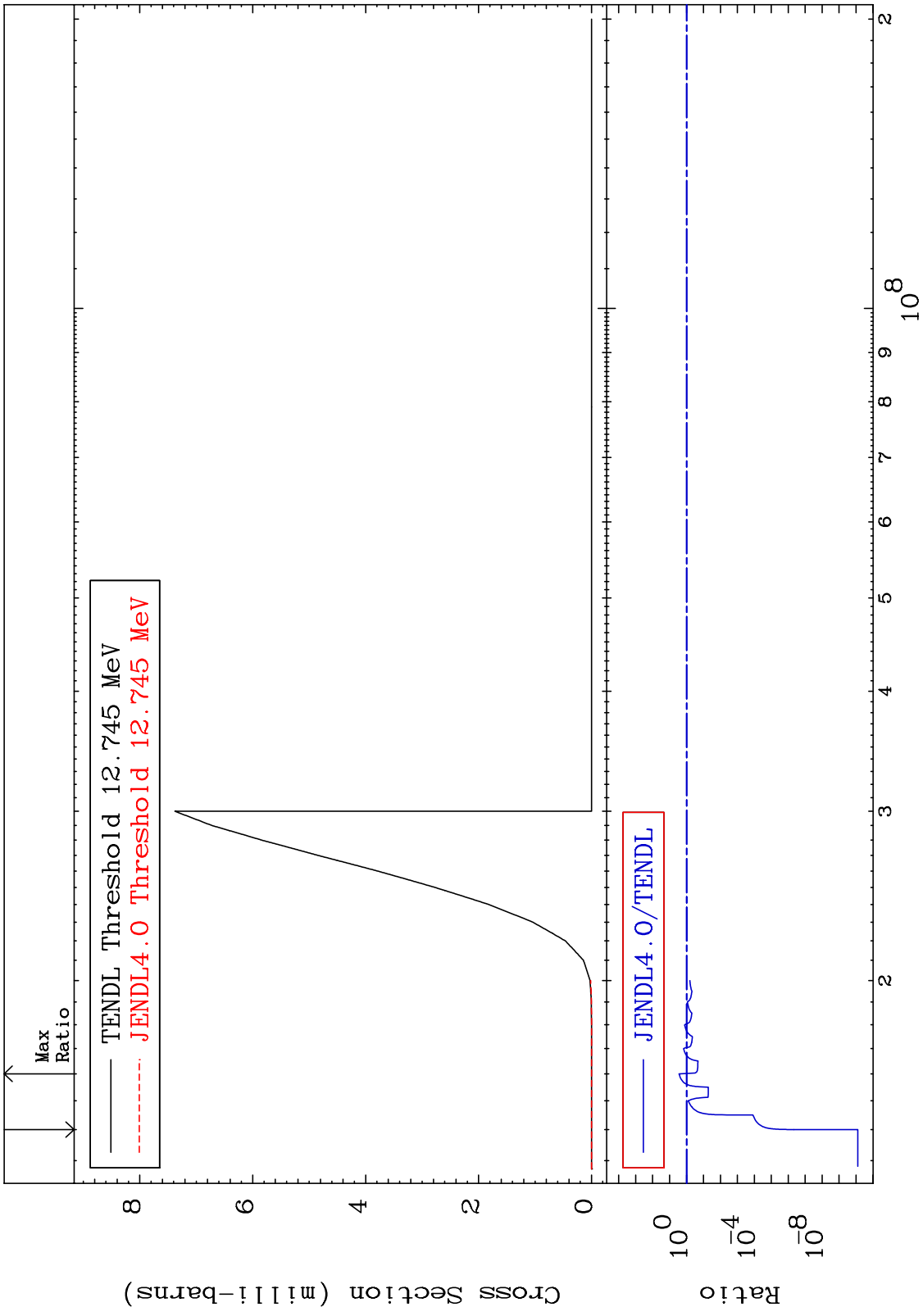


8 62-Sm-151
 Incident Energy (eV)

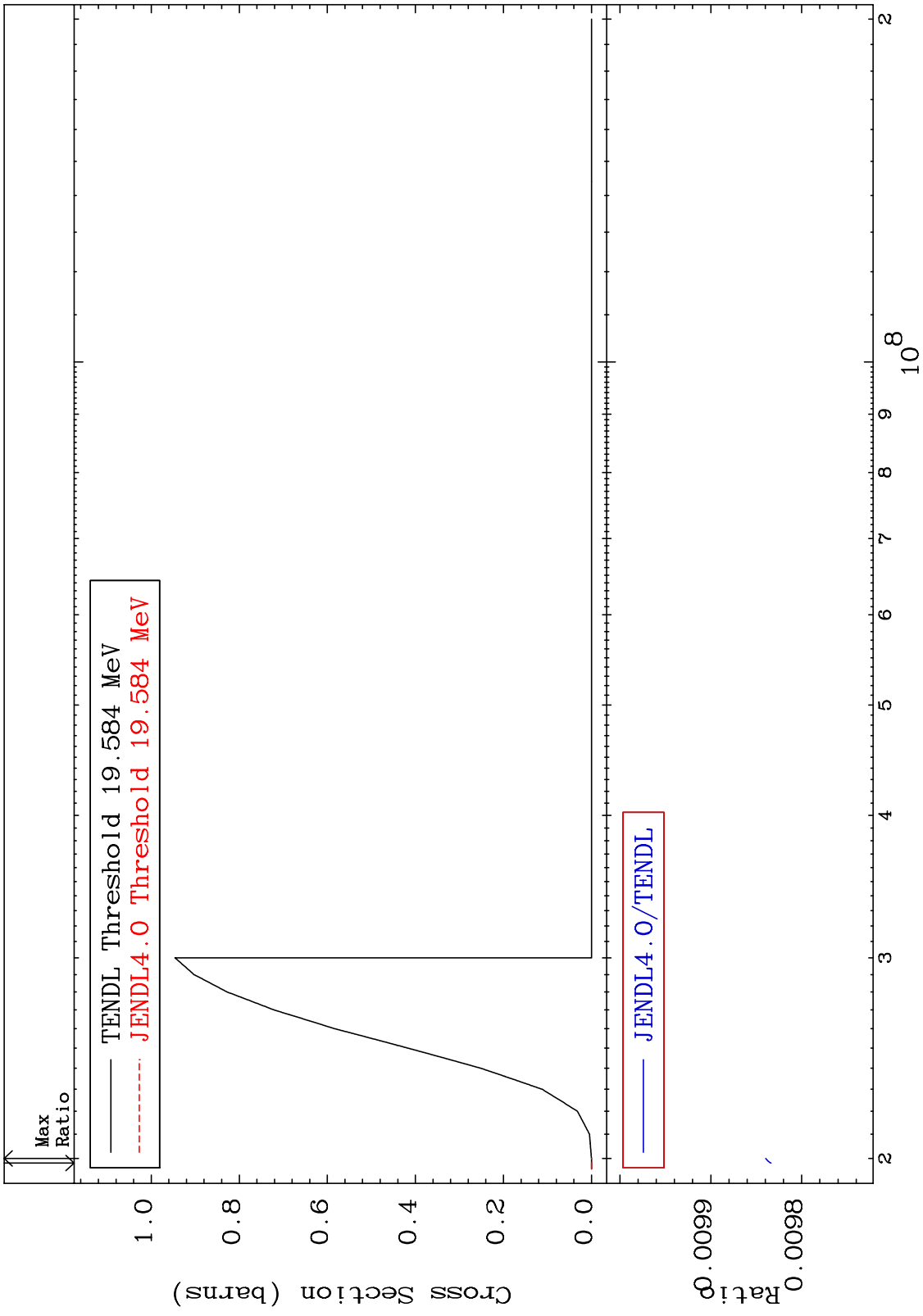
MAT 6246 (n,n') d 62-Sm-151
 Cross Section -100.0 To 402.7 %



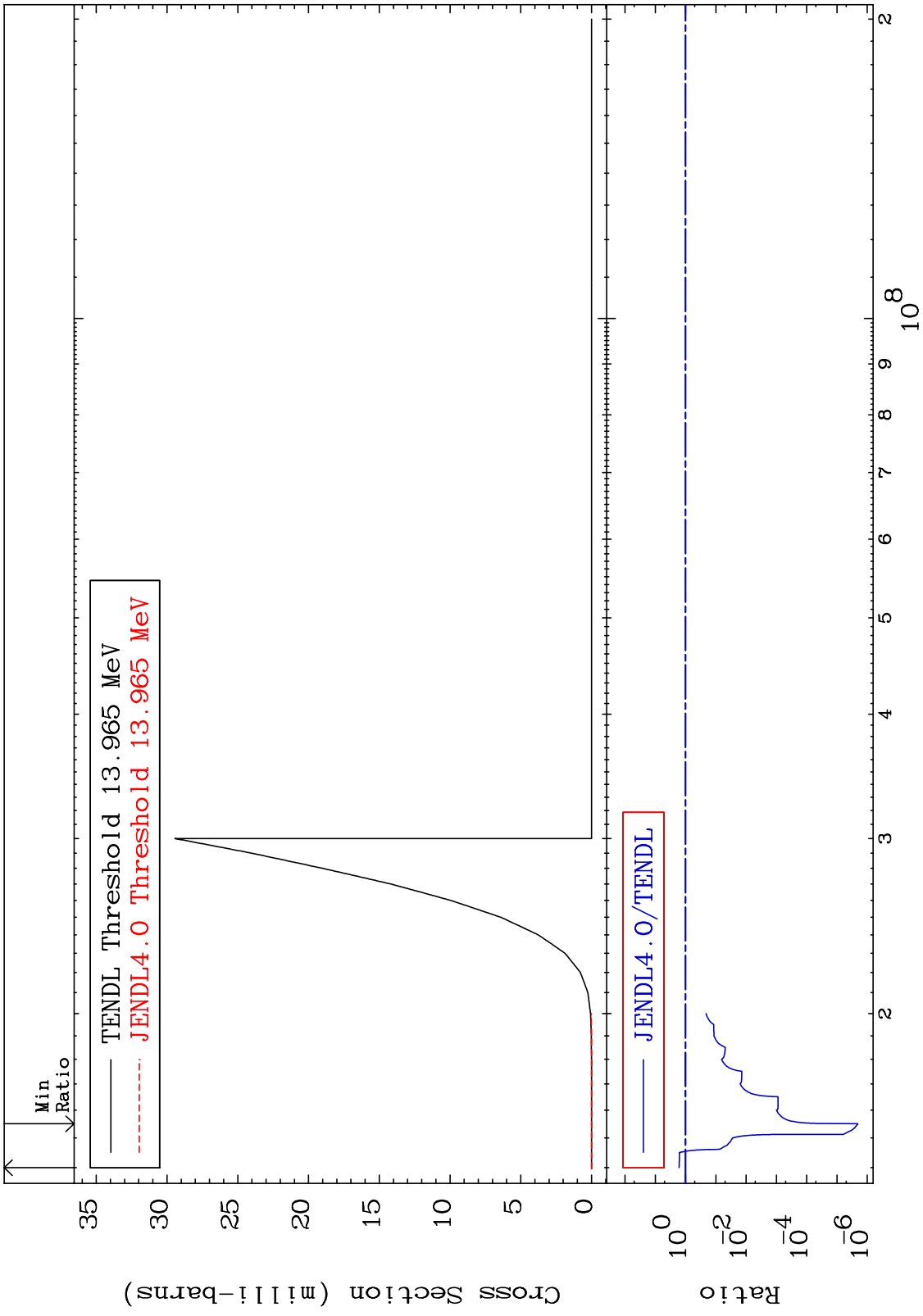
MAT 6246 (n, n') t 62-Sm-151
 Cross Section -100.0 To 176.2 %



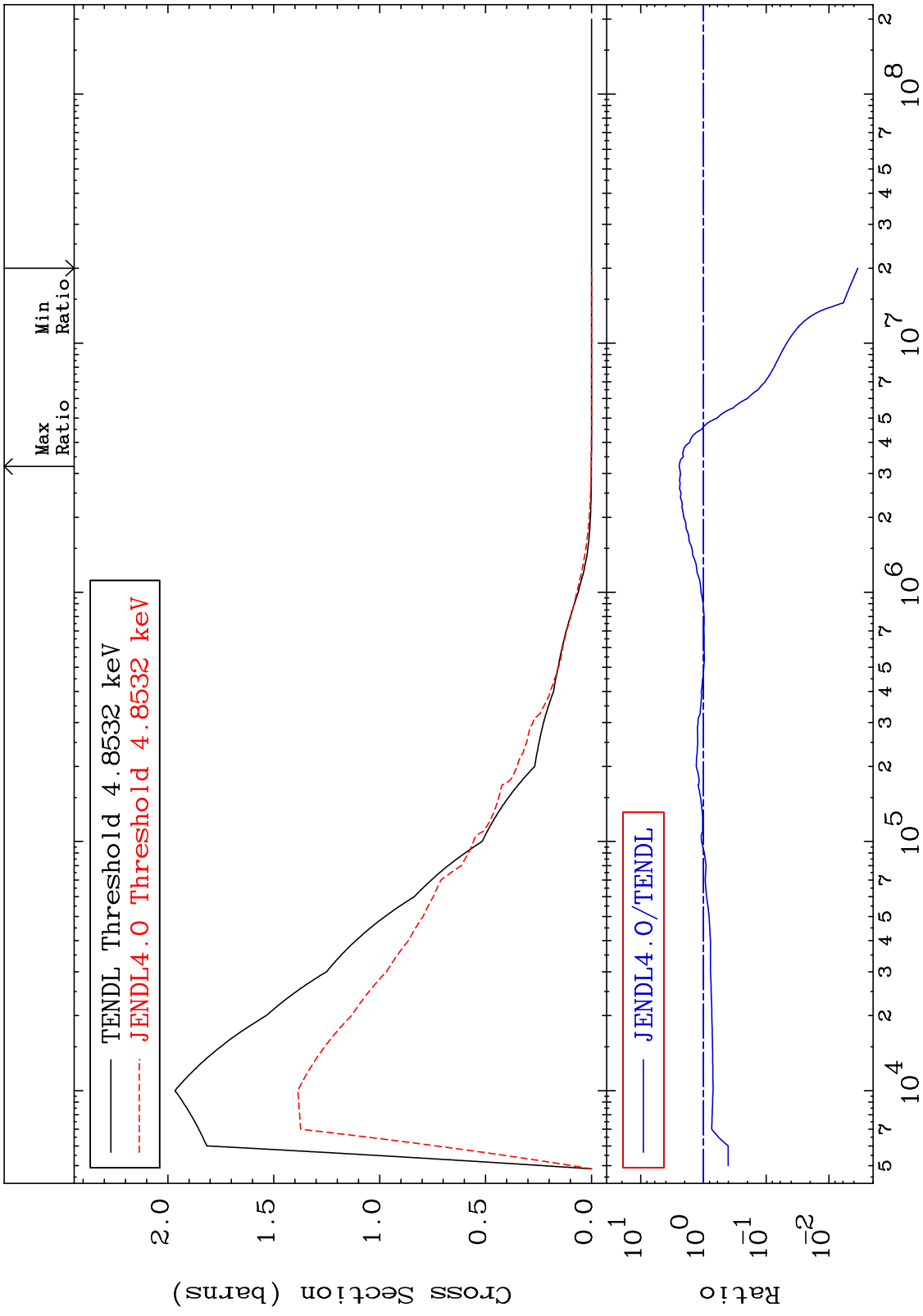
MAT 6246 (n,4n) Cross Section 62-Sm-151 -99.02 To -99.02%



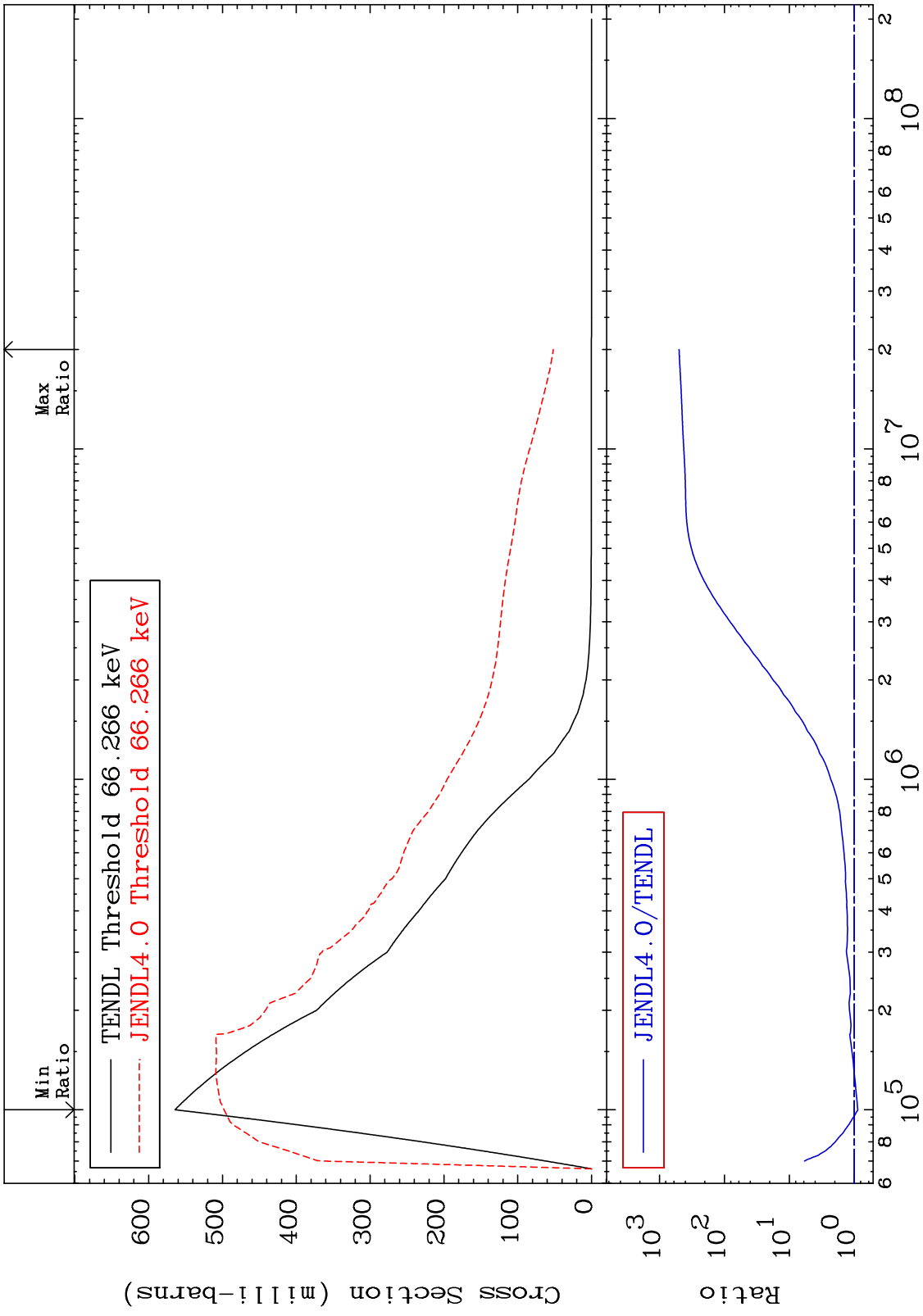
MAT 6246 (n,2n) p 62-Sm-151
 Cross Section -100.0 To 64.99 %



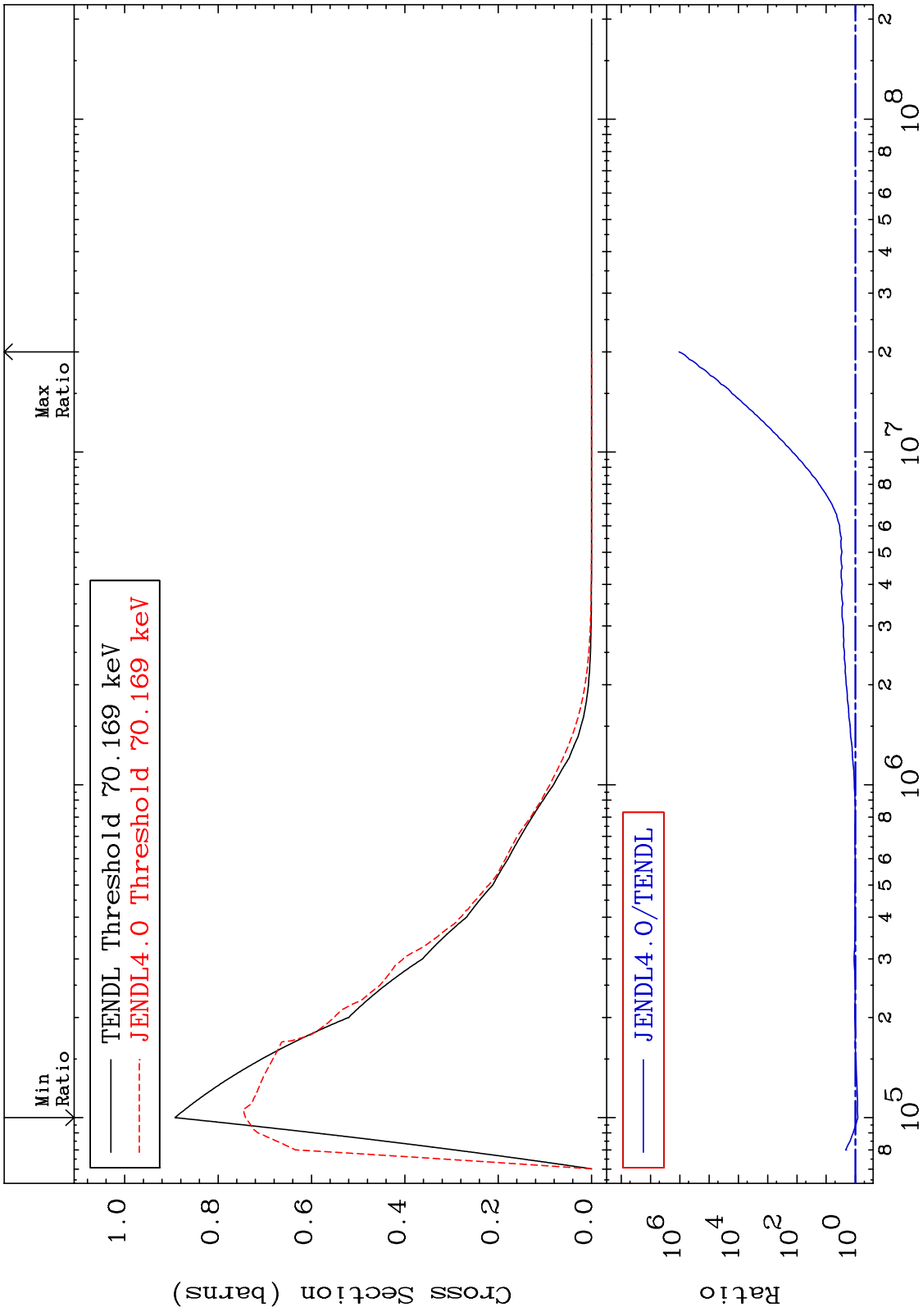
MAT 6246 MT= 51 (n,n') Level Cross Section 62-Sm-151 -99.65 To 145.6 %



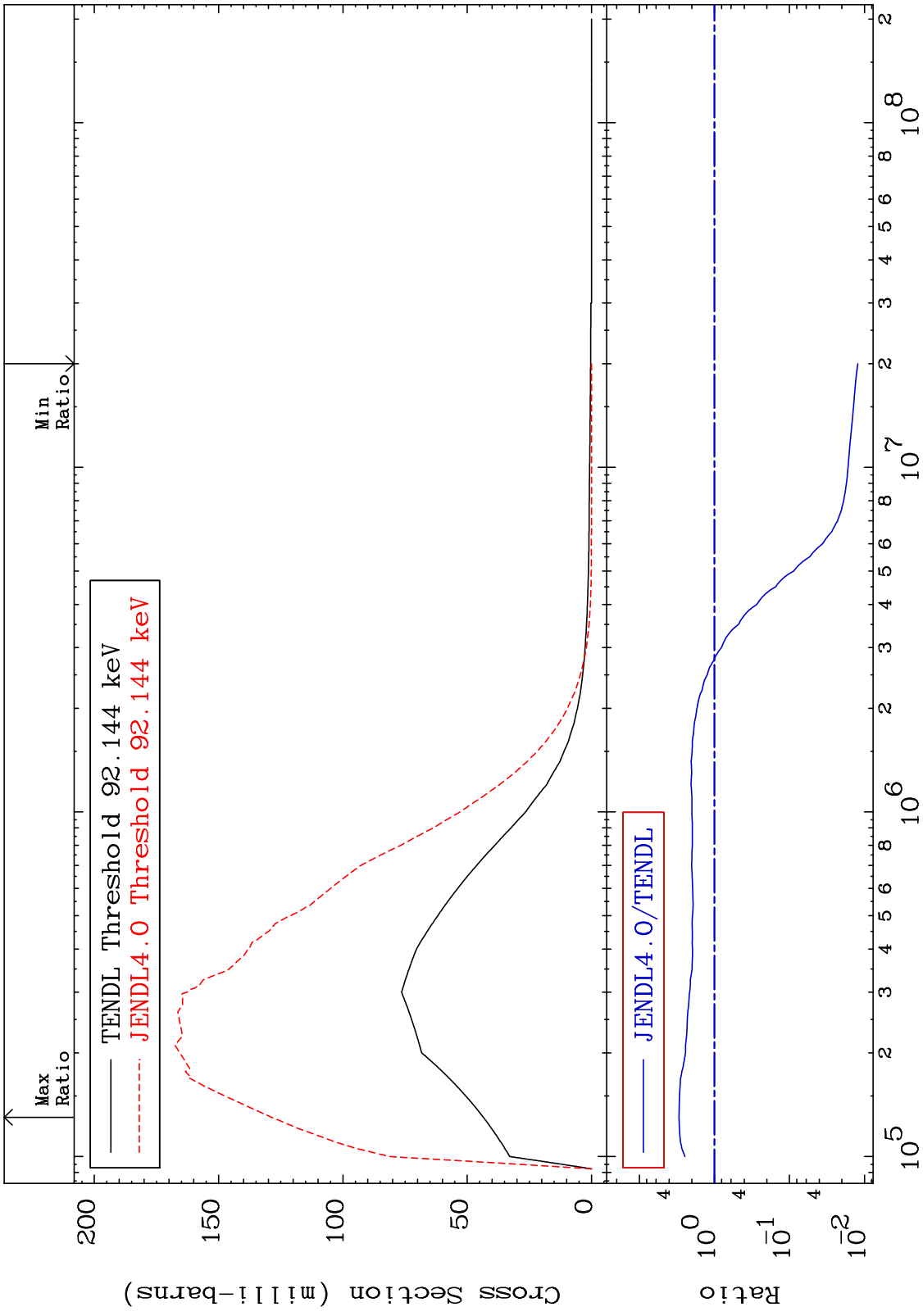
MAT 6246 MT= 52 (n,n') Level Cross Section 62-Sm-151 -11.78 To 9999. %



MAT 6246 MT= 53 (n,n') Level Cross Section 62-Sm-151
 -16.95 To 9999. %

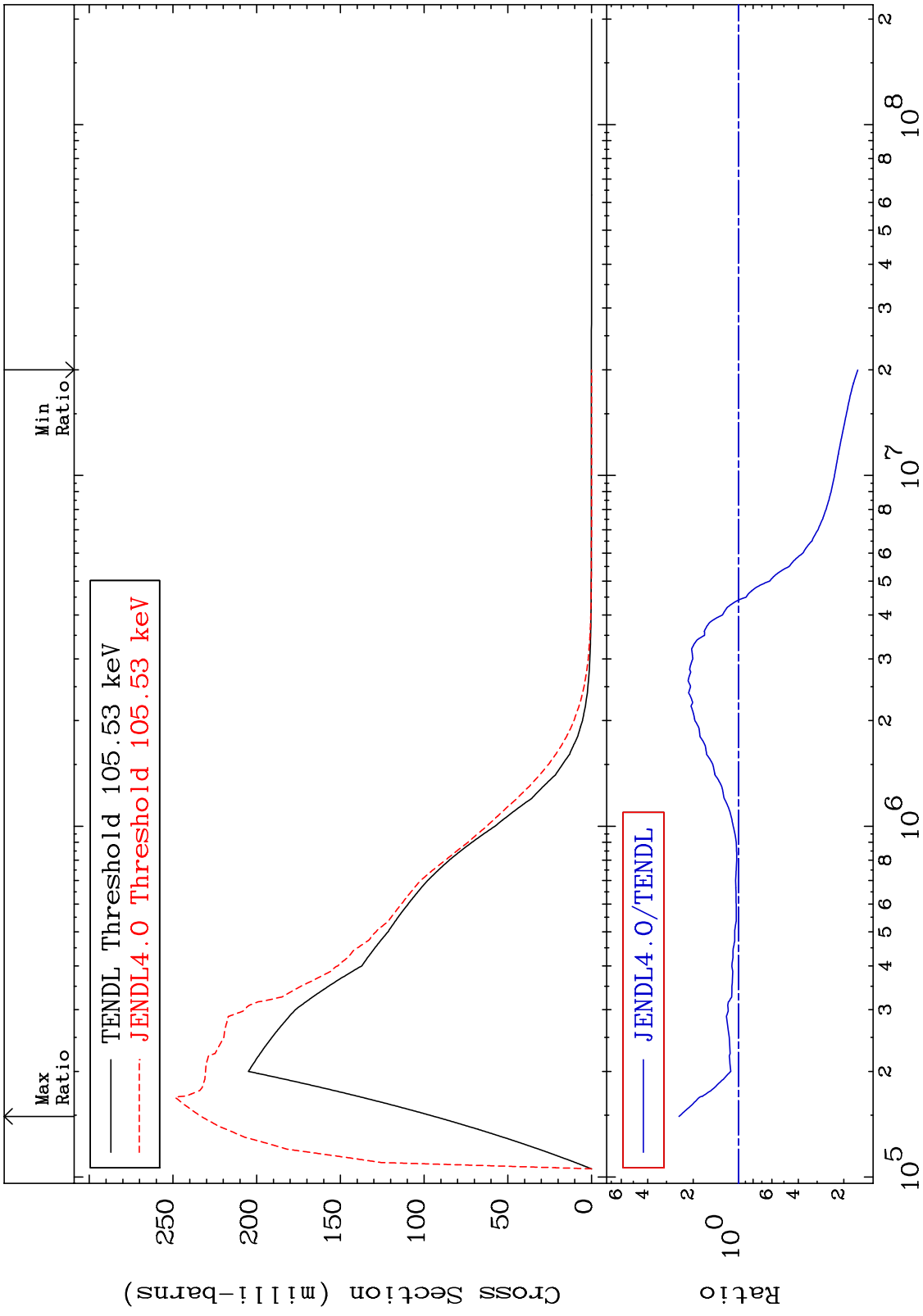


MAT 6246 MT= 54 (n,n') Level Cross Section 62-Sm-151
 -98.77 To 195.8 %

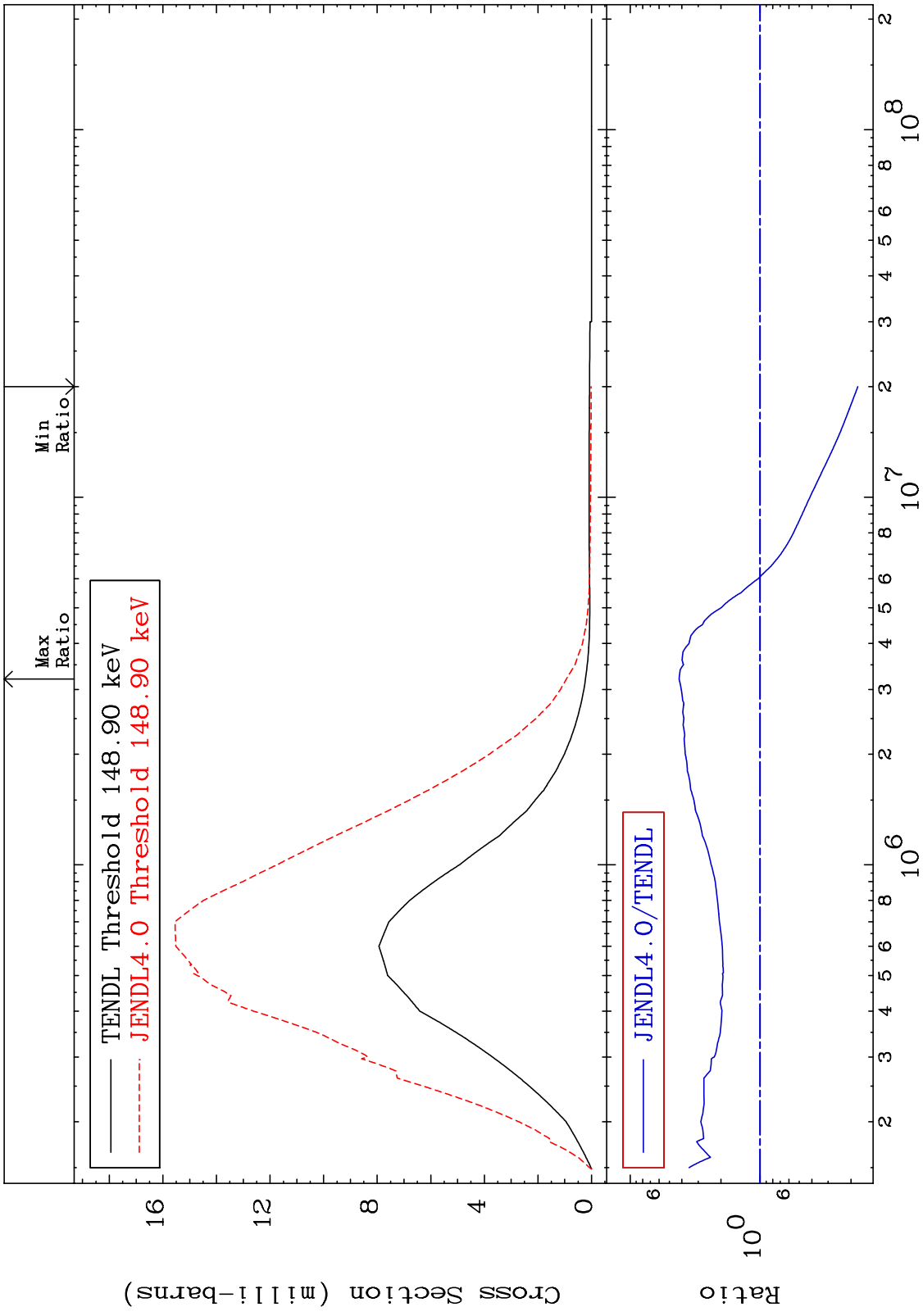


16 Incident Energy (eV) 62-Sm-151

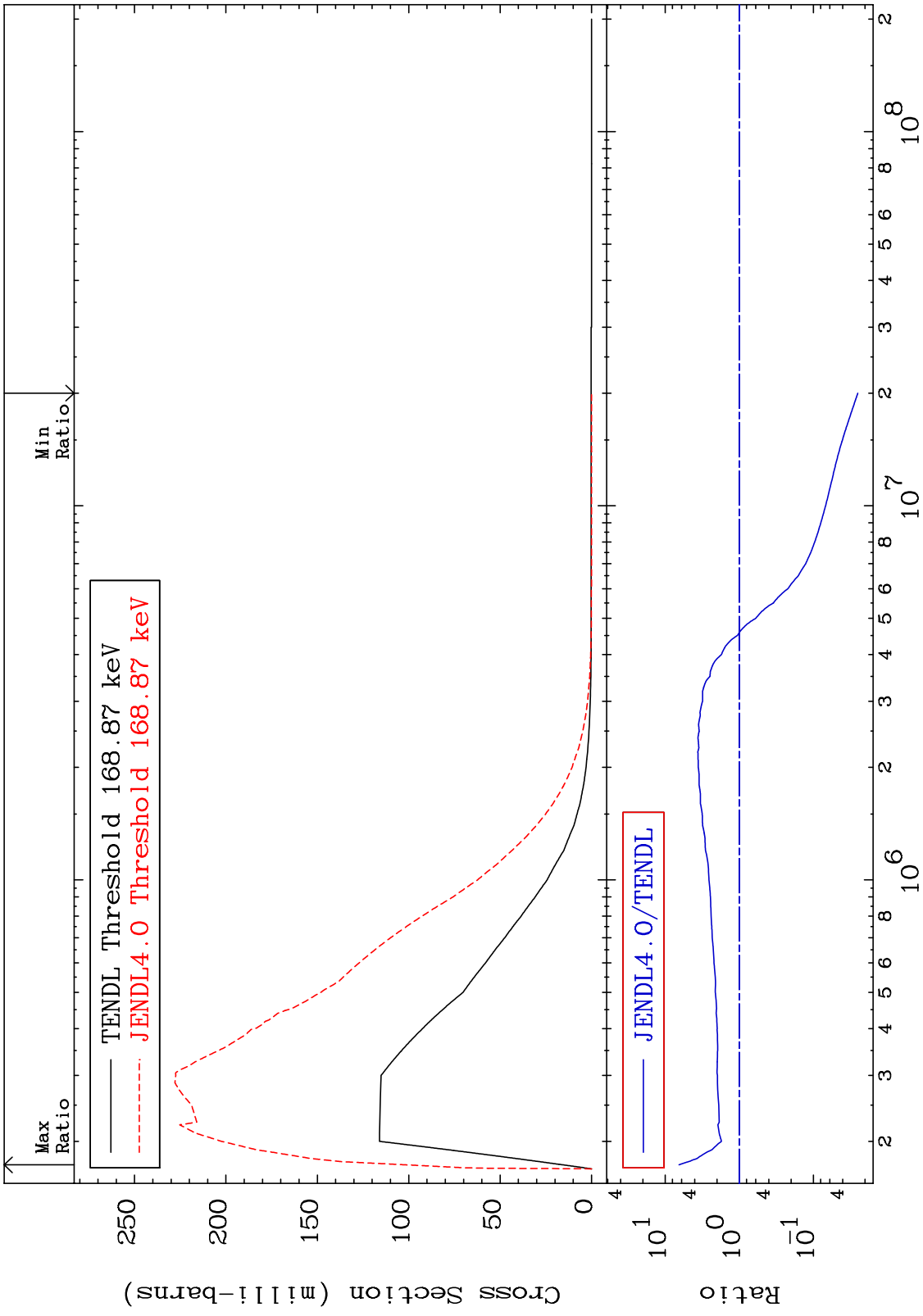
MAT 6246 MT= 55 (n,n') Level Cross Section 62-Sm-151
 -83.87 To 148.1 %



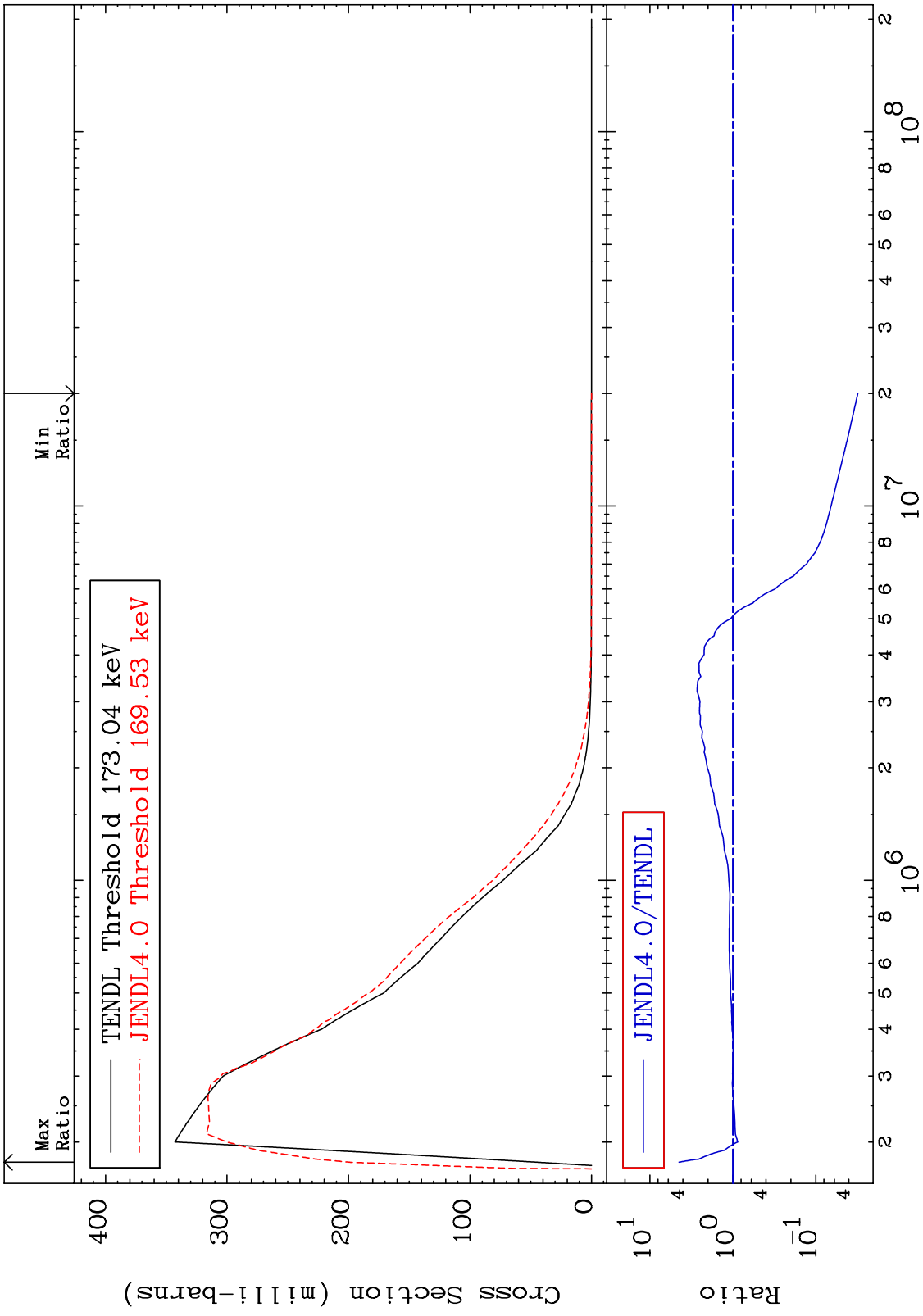
MAT 6246 MT= 56 (n,n') Level Cross Section 62-Sm-151 -82.28 To 320.7 %



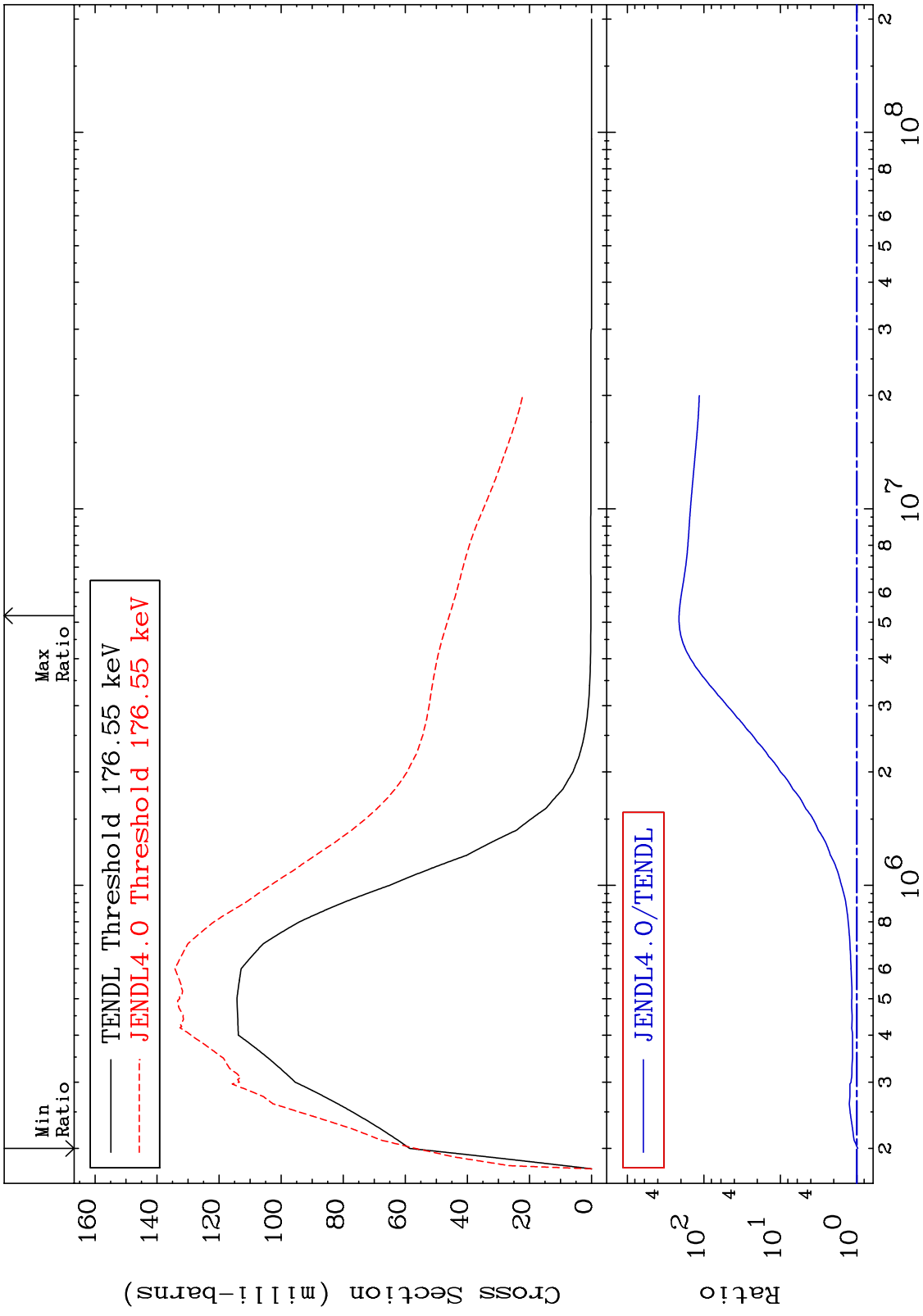
MAT 6246 MT= 57 (n,n') Level Cross Section 62-Sm-151 -97.49 To 551.1 %



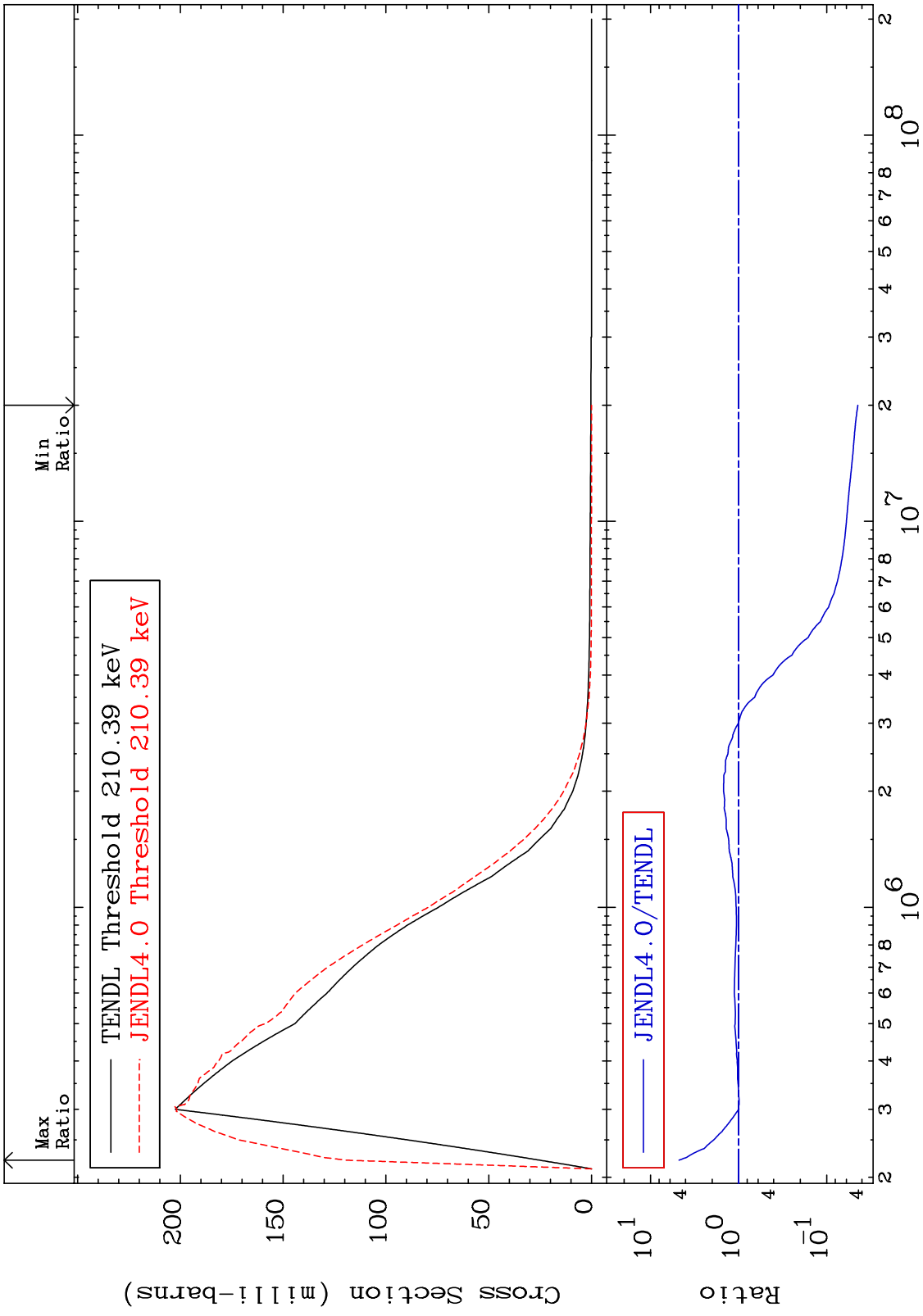
MAT 6246 MT= 58 (n,n') Level Cross Section 62-Sm-151 -96.88 To 345.9 %



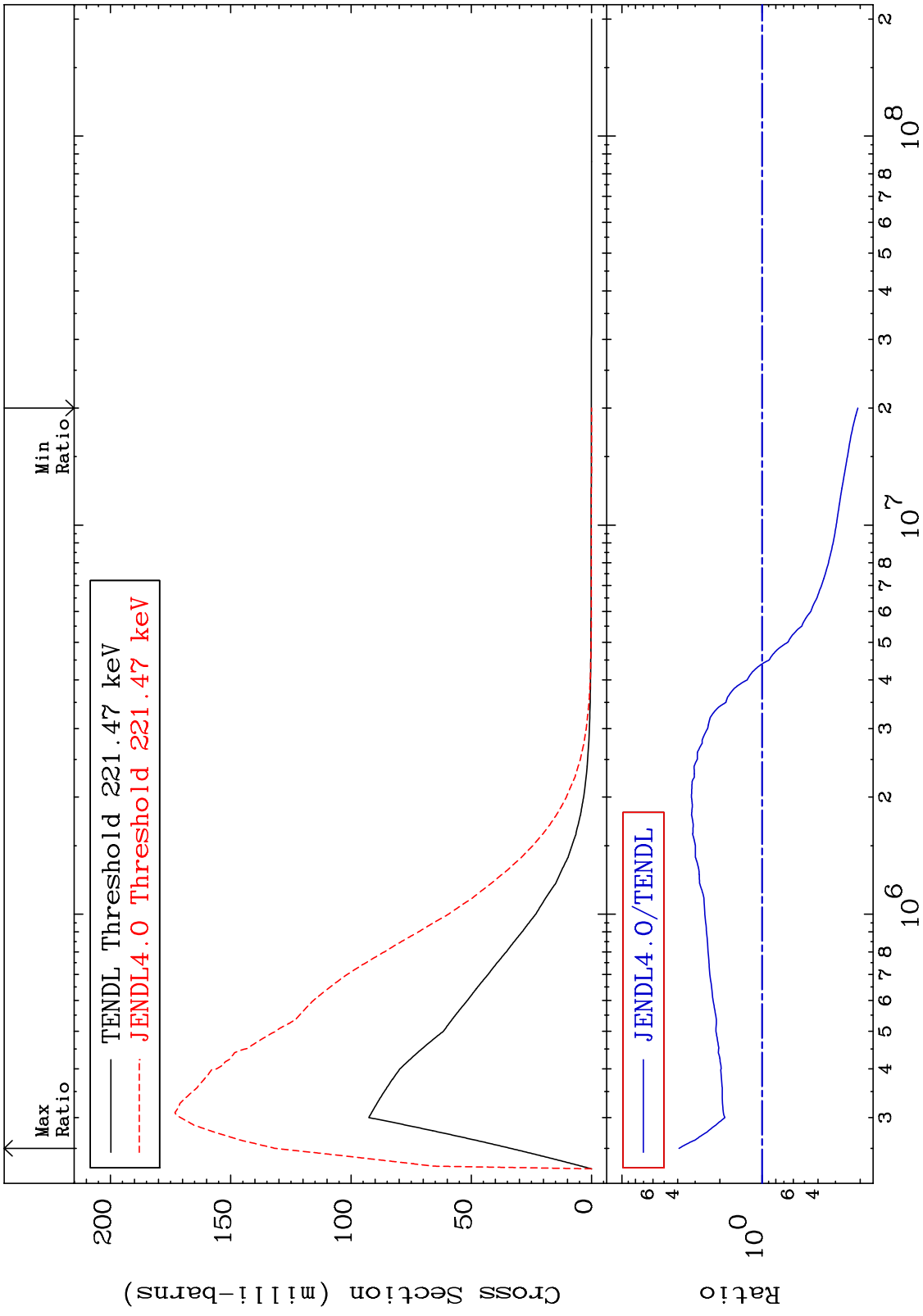
MAT 6246 MT= 59 (n,n') Level 62-Sm-151
 Cross Section -3.056 To 9999. %



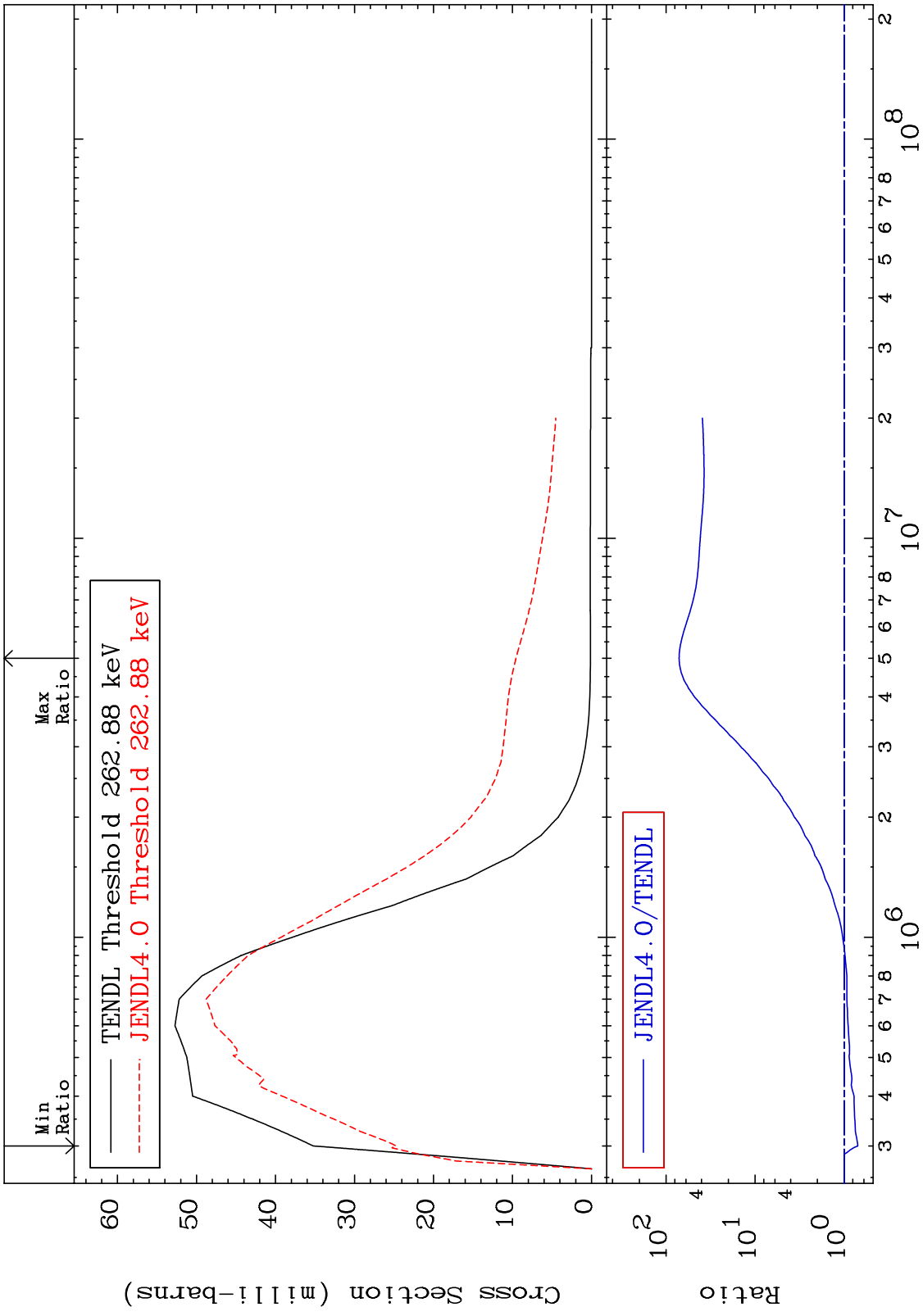
MAT 6246 MT= 60 (n,n') Level Cross Section 62-Sm-151 -95.56 To 374.8 %



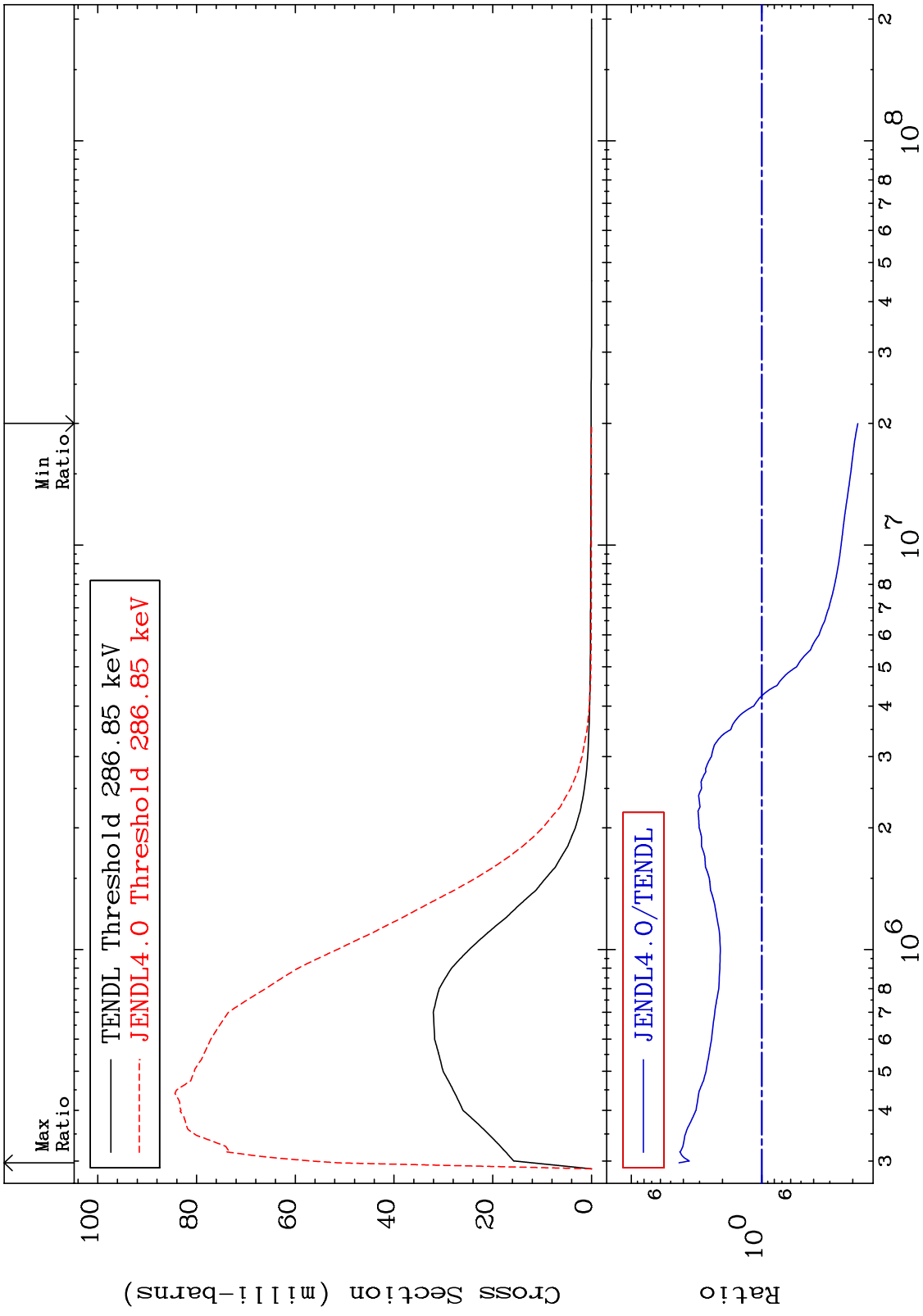
MAT 6246 MT= 61 (n,n') Level Cross Section 62-Sm-151 -79.22 To 291.3 %



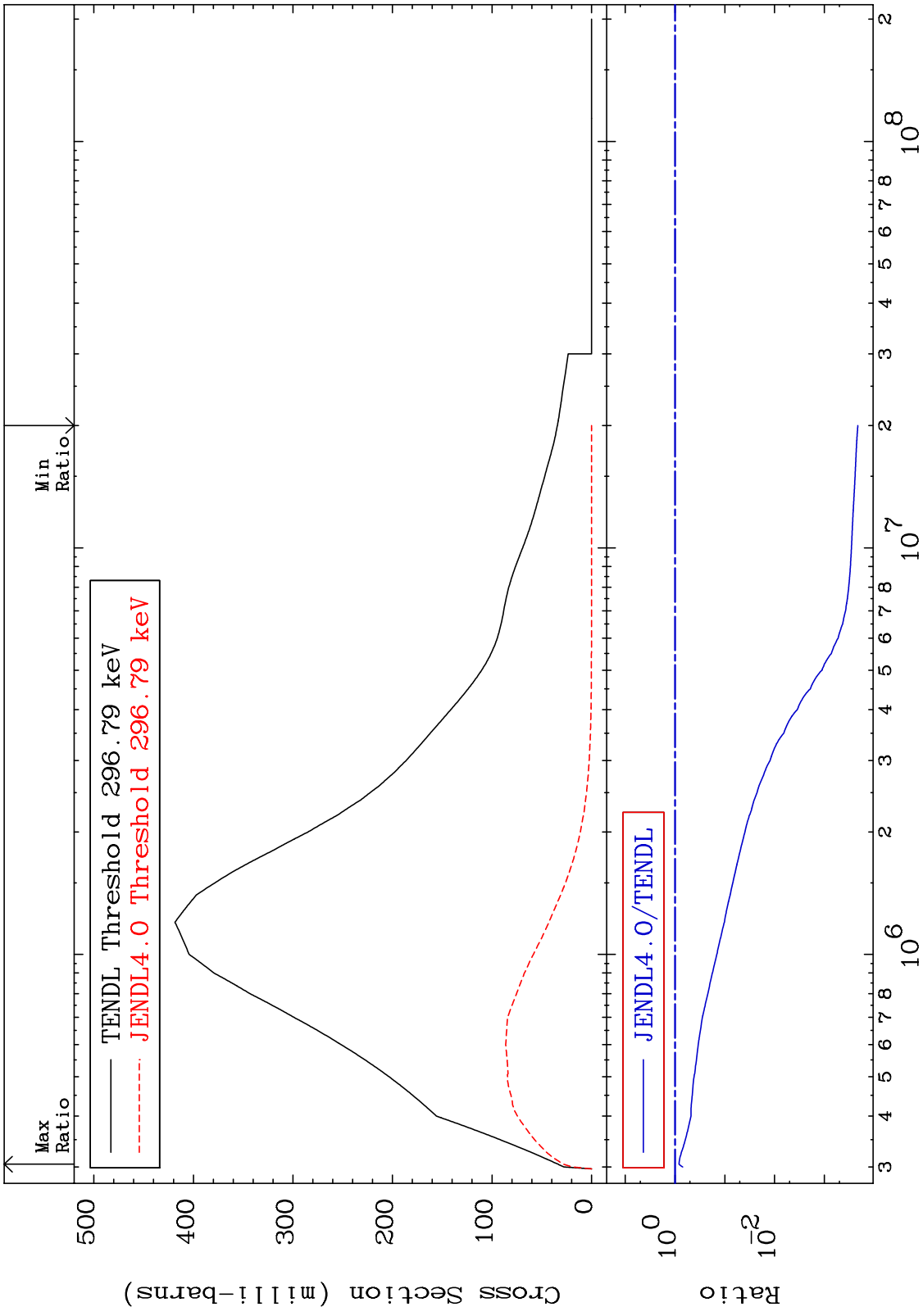
MAT 6246 MT= 62 (n,n') Level Cross Section 62-Sm-151 -29.76 To 7059. %



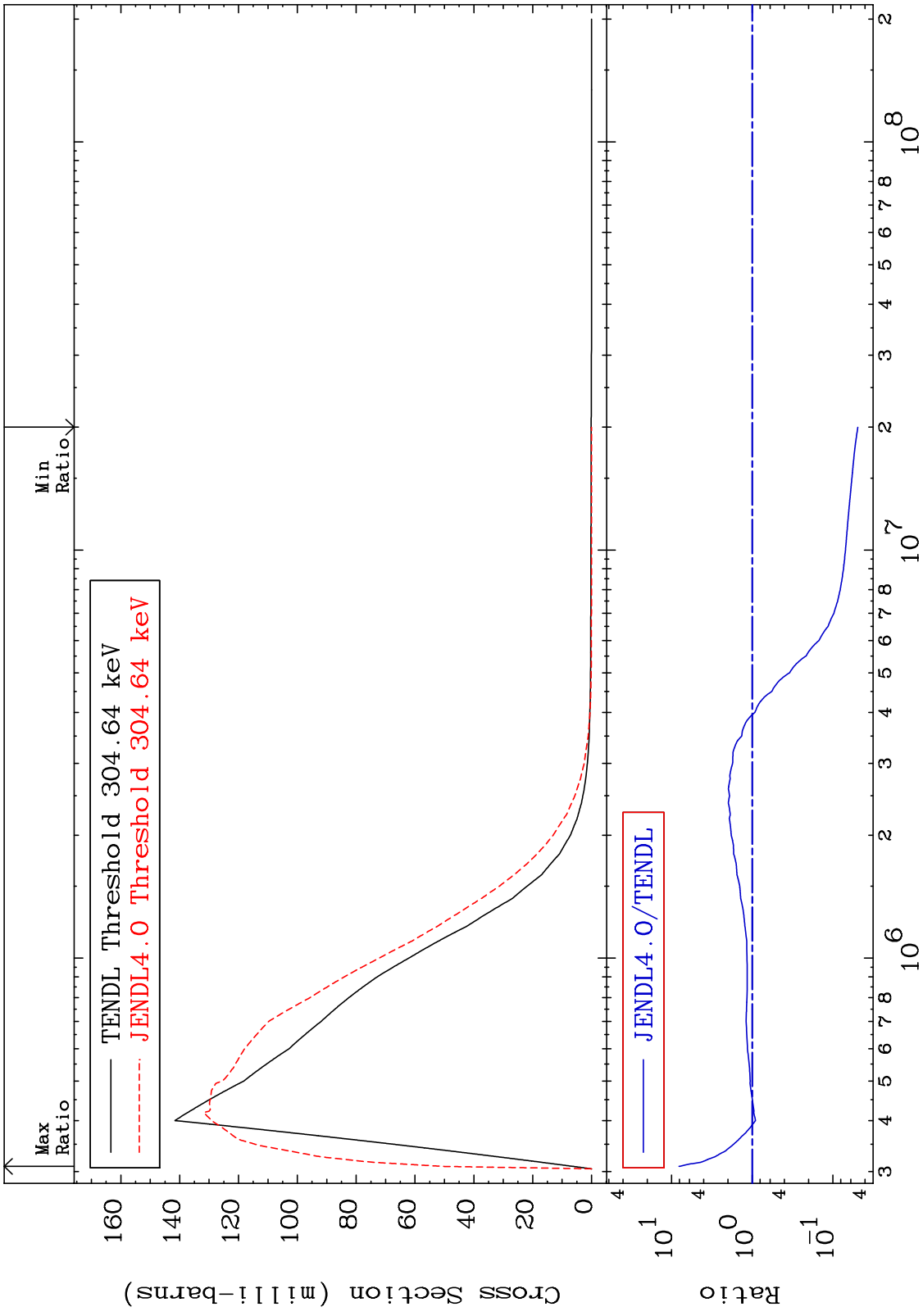
MAT 6246 MT= 63 (n,n') Level Cross Section 62-Sm-151 -81.70 To 331.0 %



MAT 6246 MT= 64 (n,n') Level Cross Section 62-Sm-151 -99.98 To -16.96%

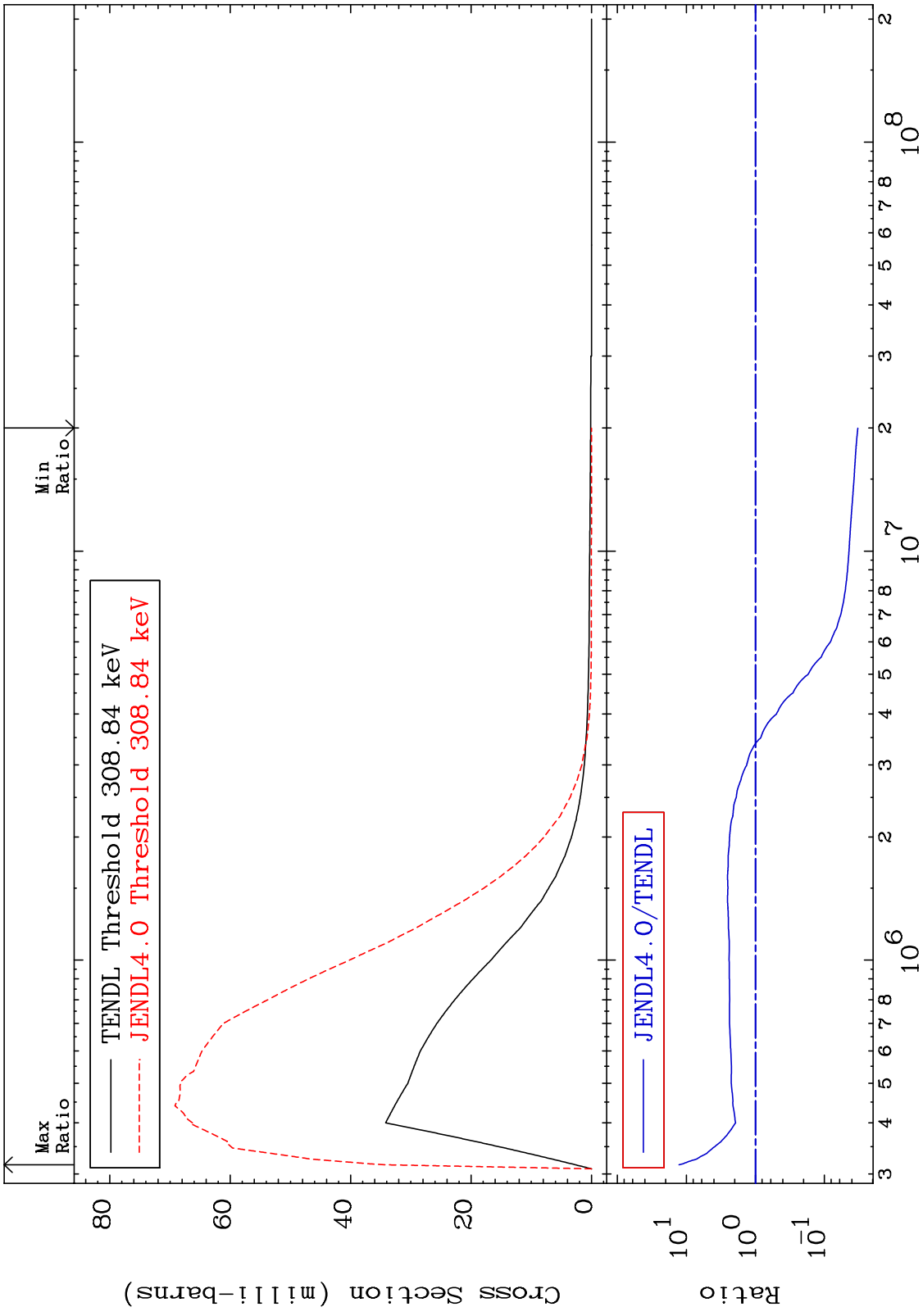


MAT 6246 MT= 65 (n,n') Level Cross Section 62-Sm-151 -95.08 To 708.0 %

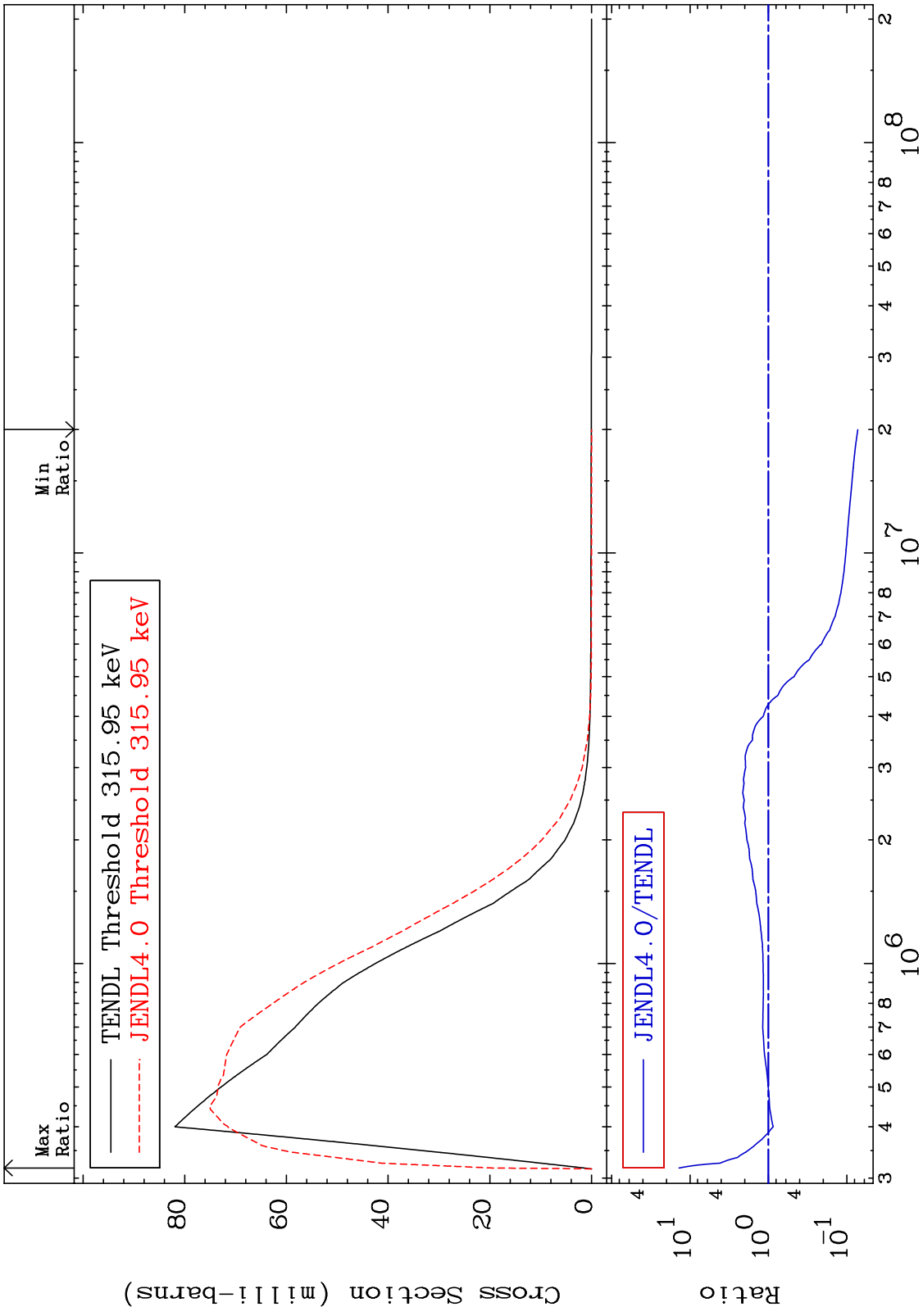


27 62-Sm-151

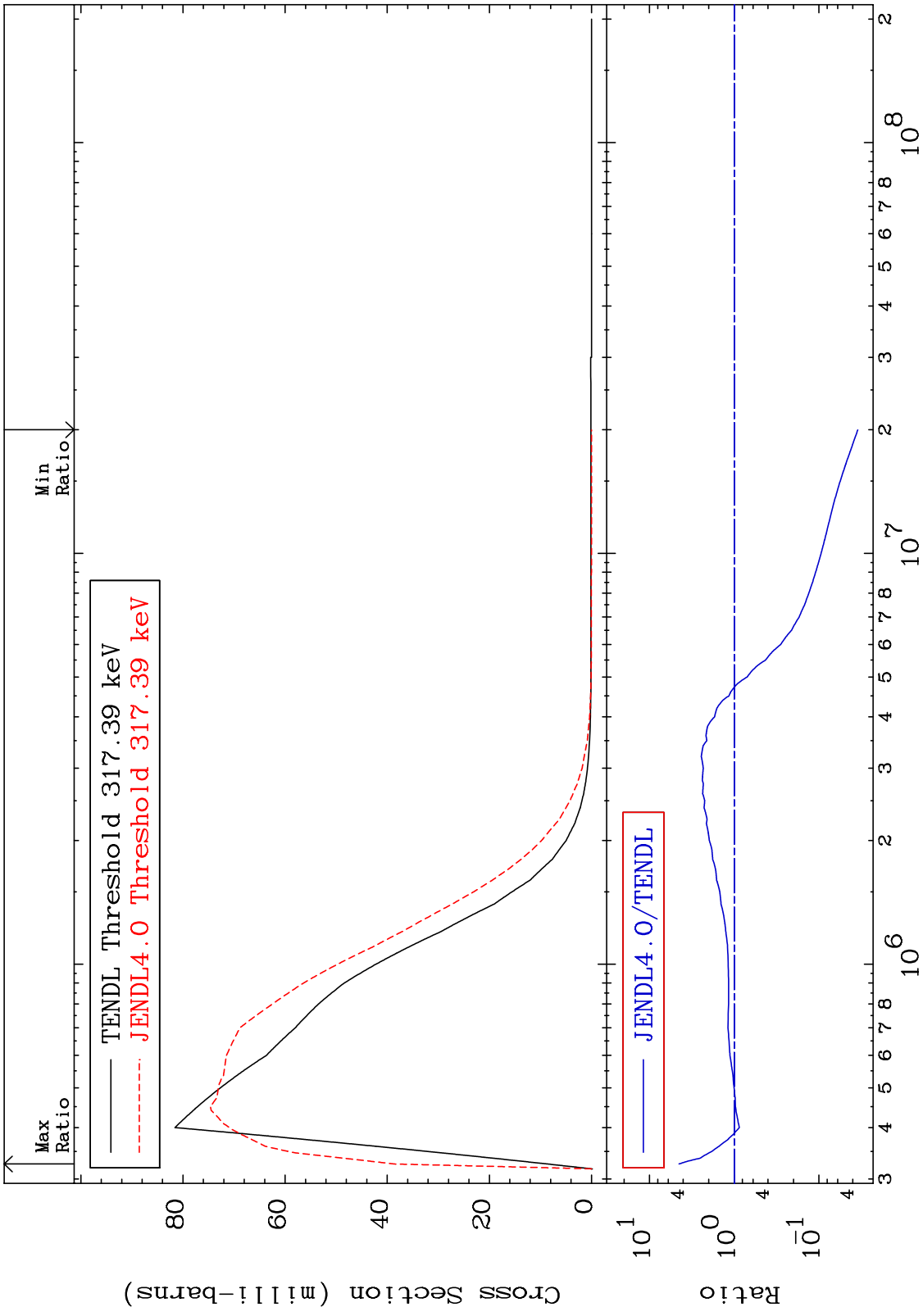
MAT 6246 MT= 66 (n,n') Level Cross Section 62-Sm-151 -96.72 To 1180. %



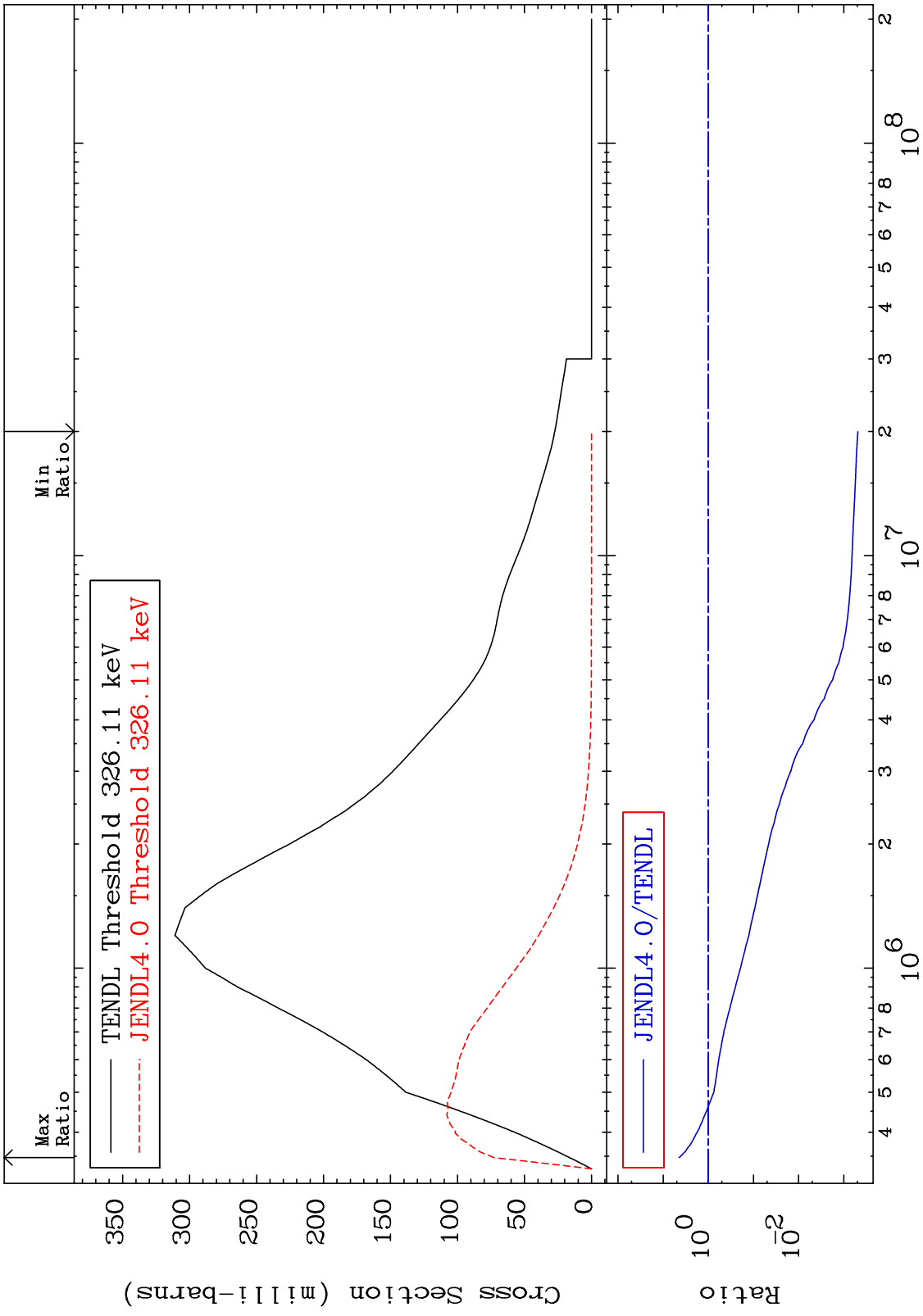
MAT 6246 MT= 67 (n,n') Level Cross Section 62-Sm-151
 -92.76 To 1281. %



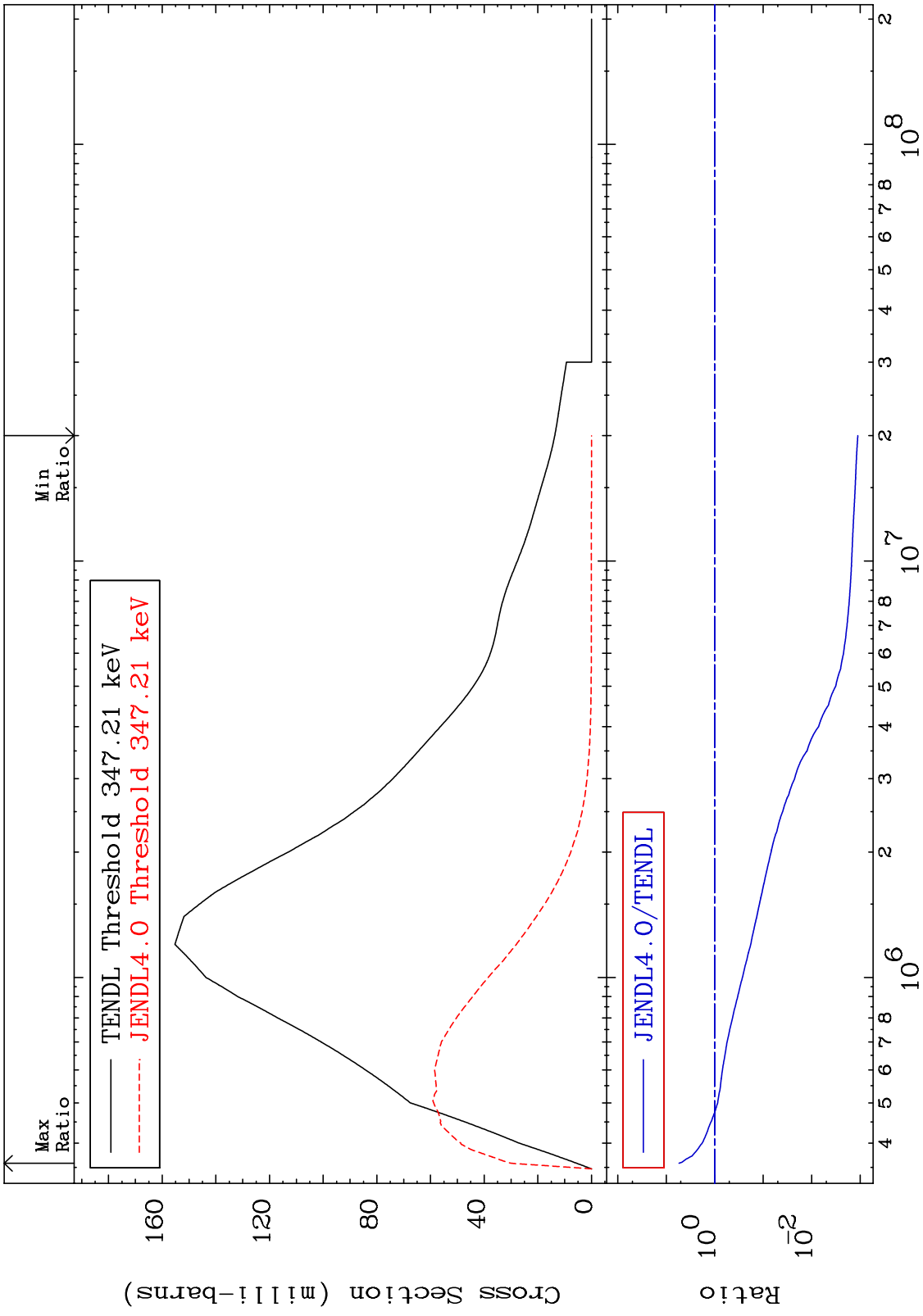
MAT 6246 MT= 68 (n,n') Level Cross Section 62-Sm-151 -96.52 To 348.1 %



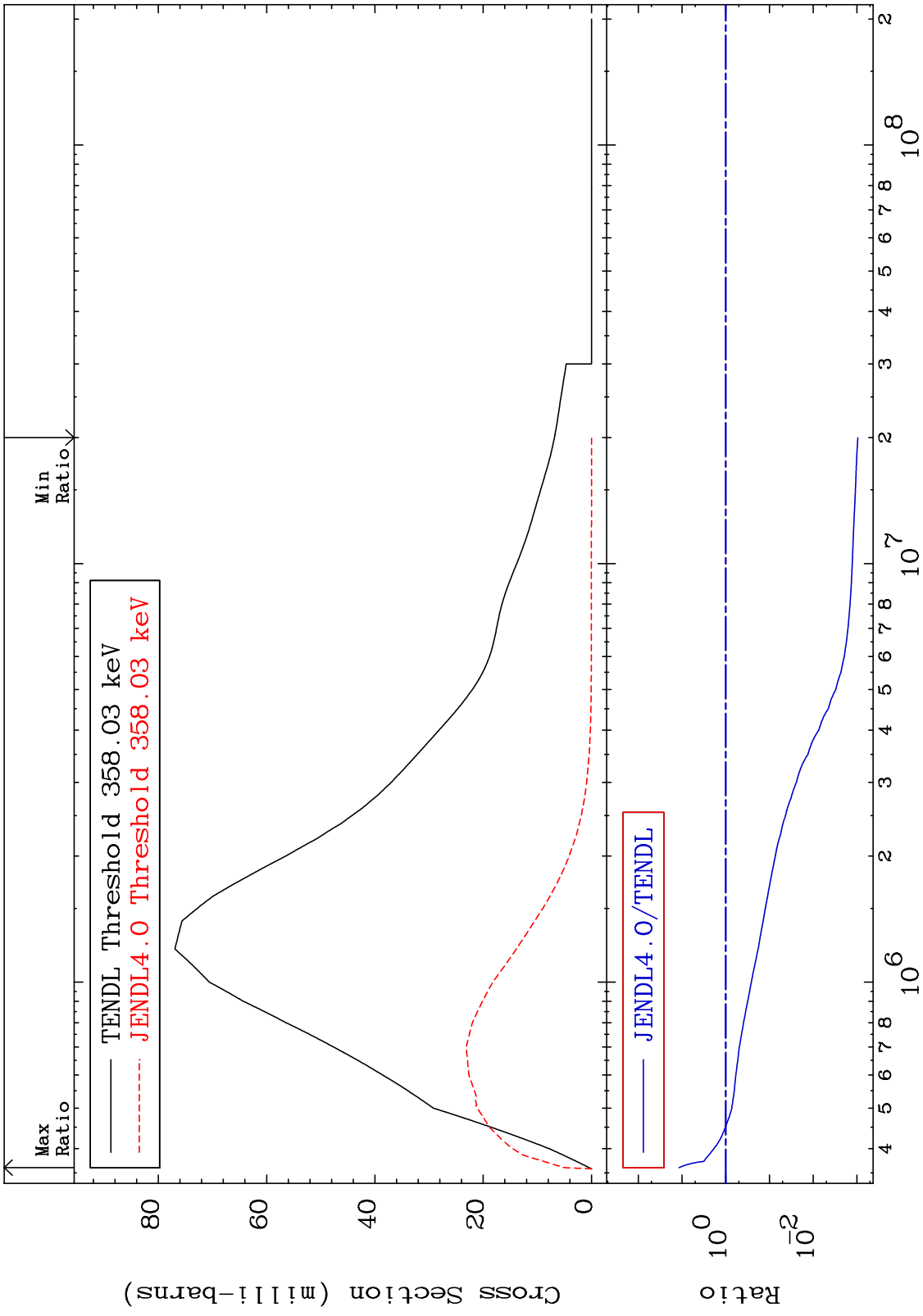
MAT 6246 MT= 69 (n,n') Level Cross Section 62-Sm-151 -99.95 To 345.0 %



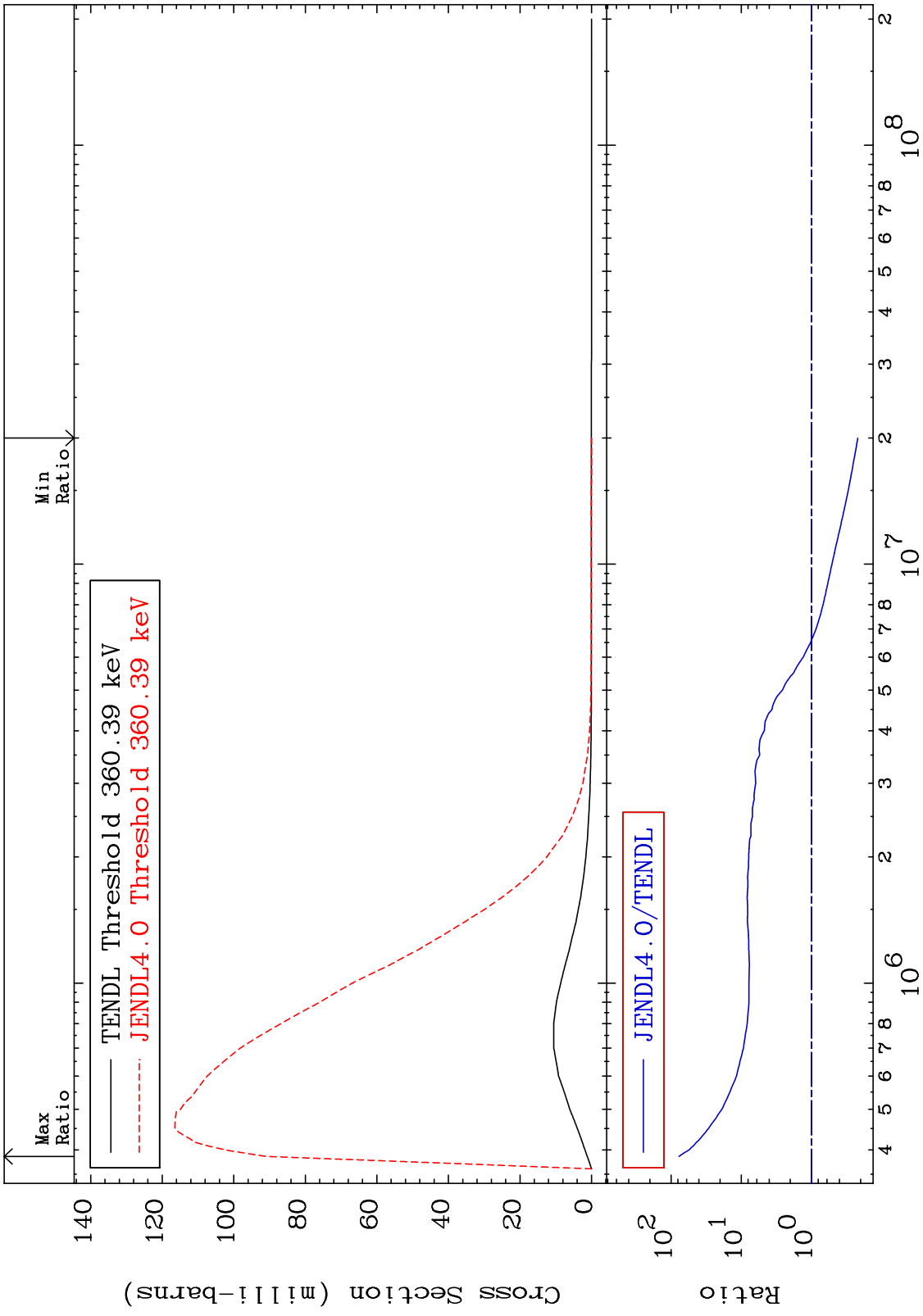
MAT 6246 MT= 70 (n,n') Level Cross Section 62-Sm-151 -99.89 To 444.1 %



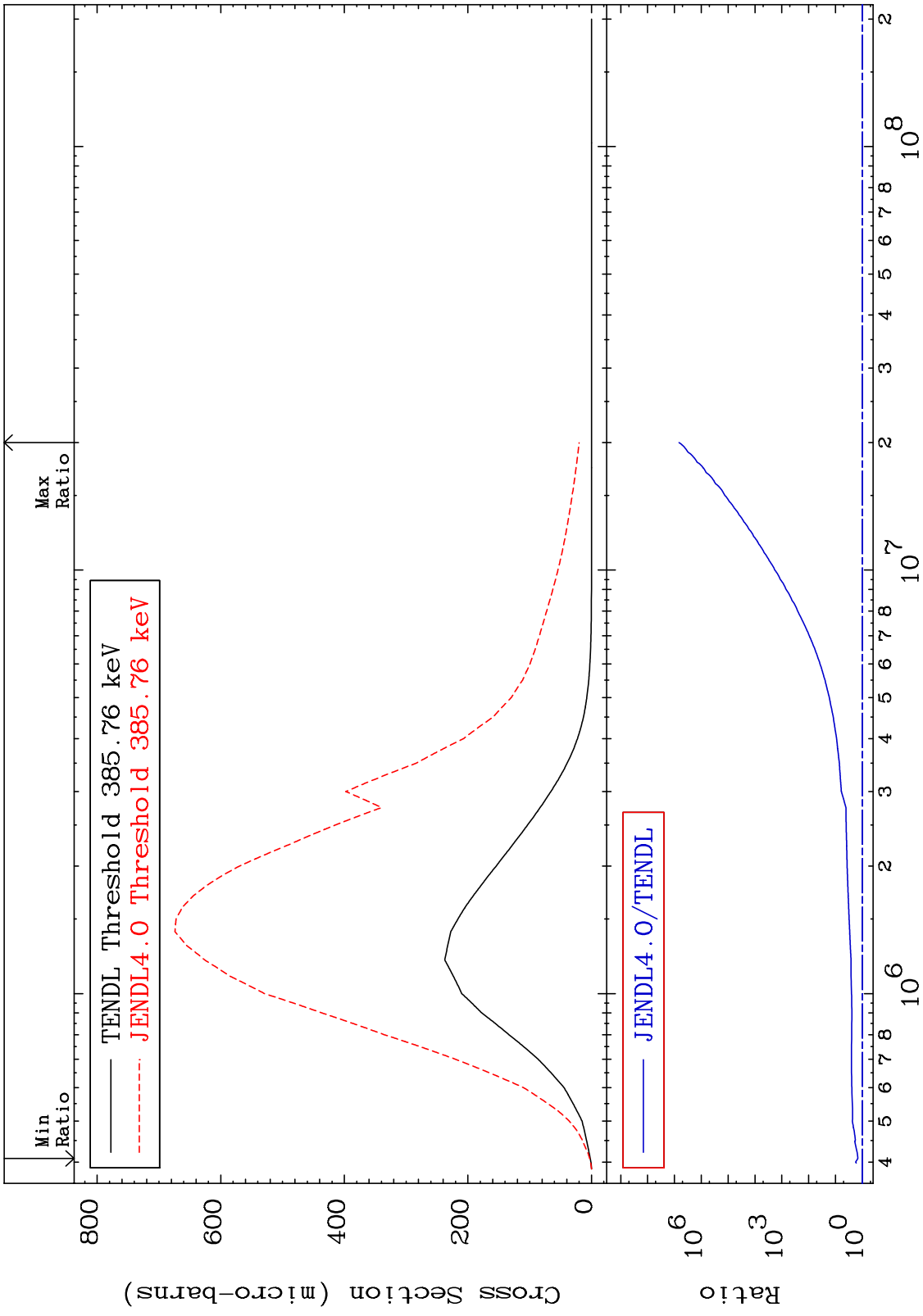
MAT 6246 MT= 71 (n,n') Level Cross Section 62-Sm-151 -99.91 To 1065. %



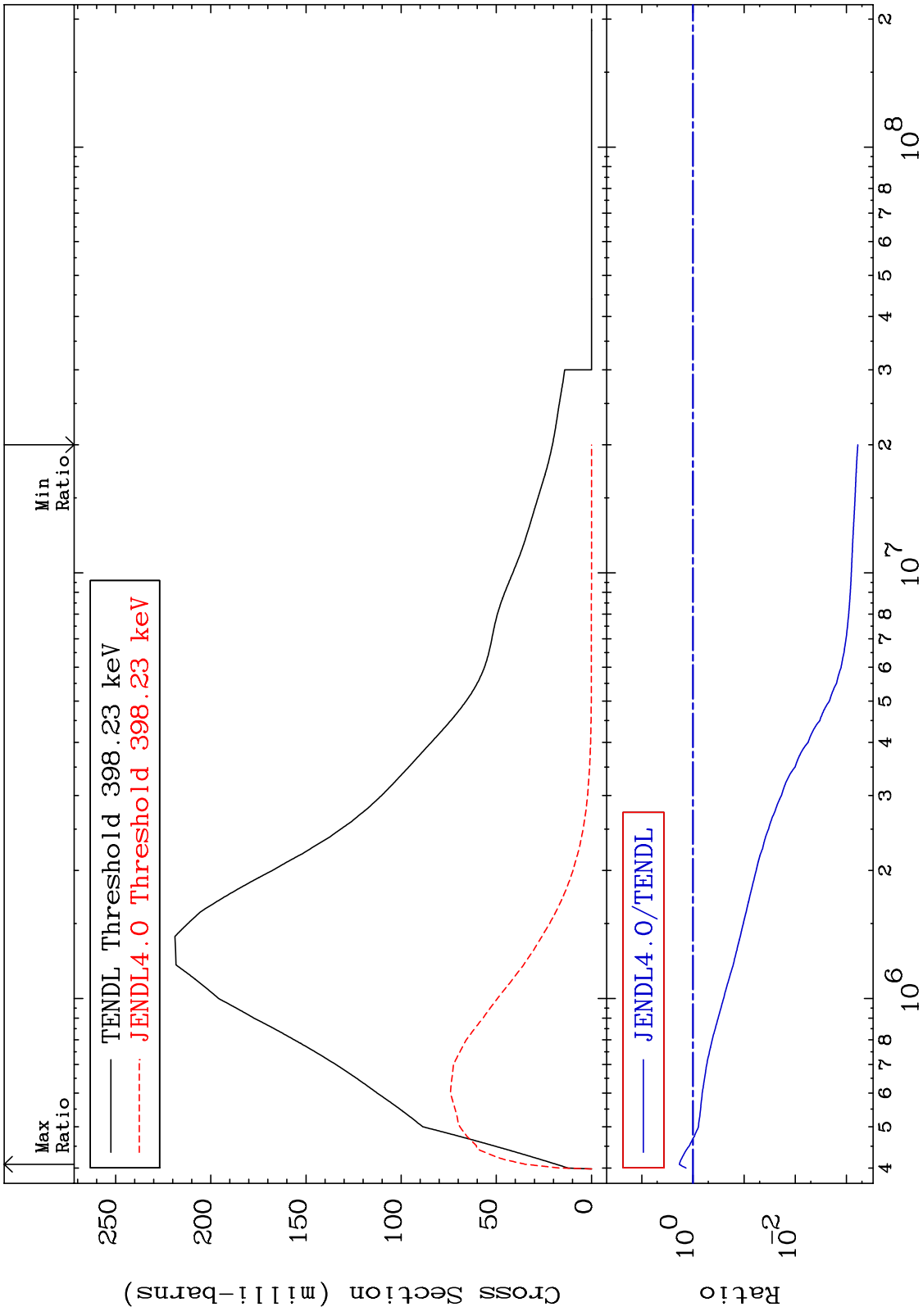
MAT 6246 MT= 72 (n,n') Level Cross Section 62-Sm-151
 -78.13 To 7588. %



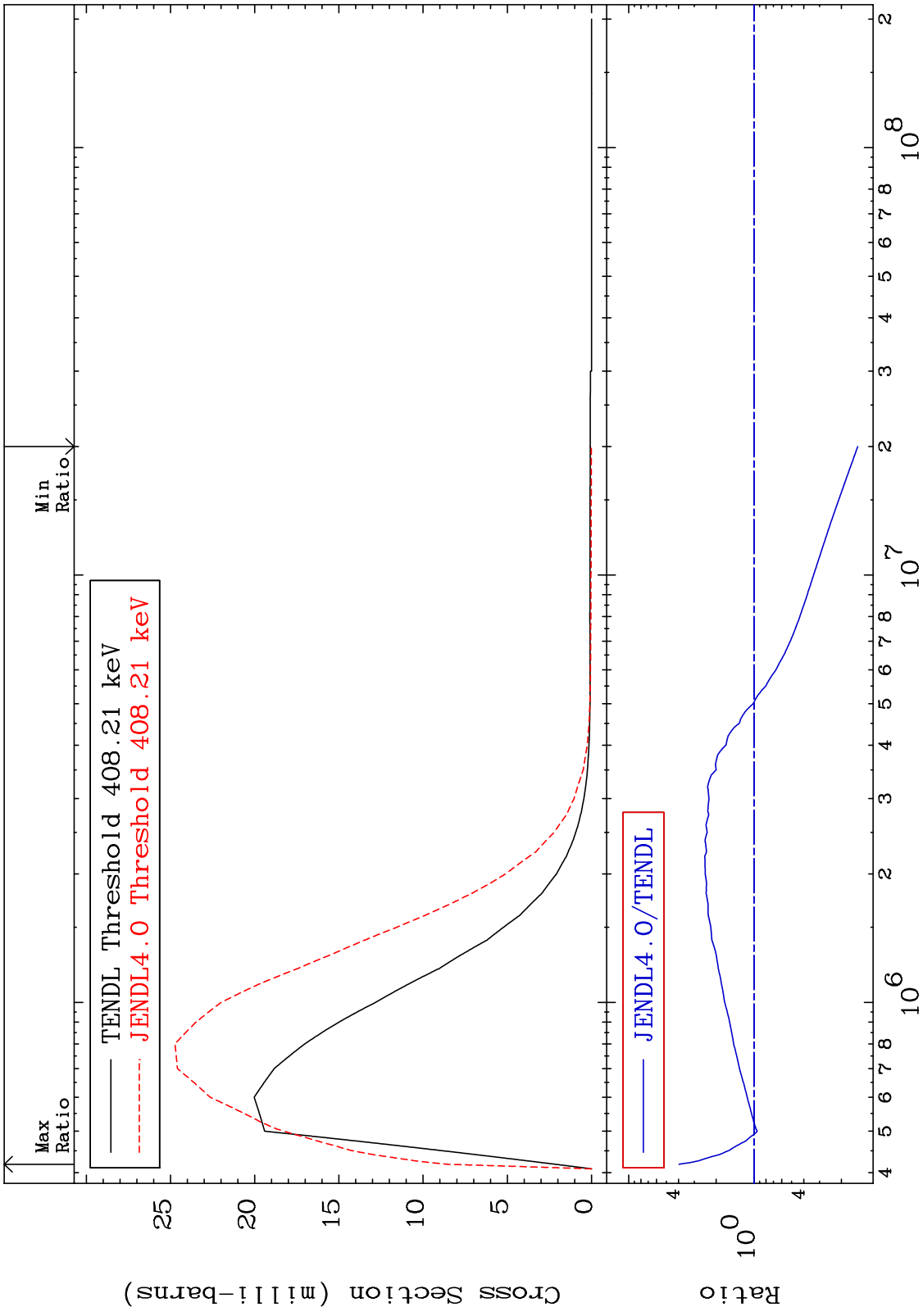
MAT 6246 MT= 73 (n,n') Level Cross Section 62-Sm-151
 47.04 To 9999. %



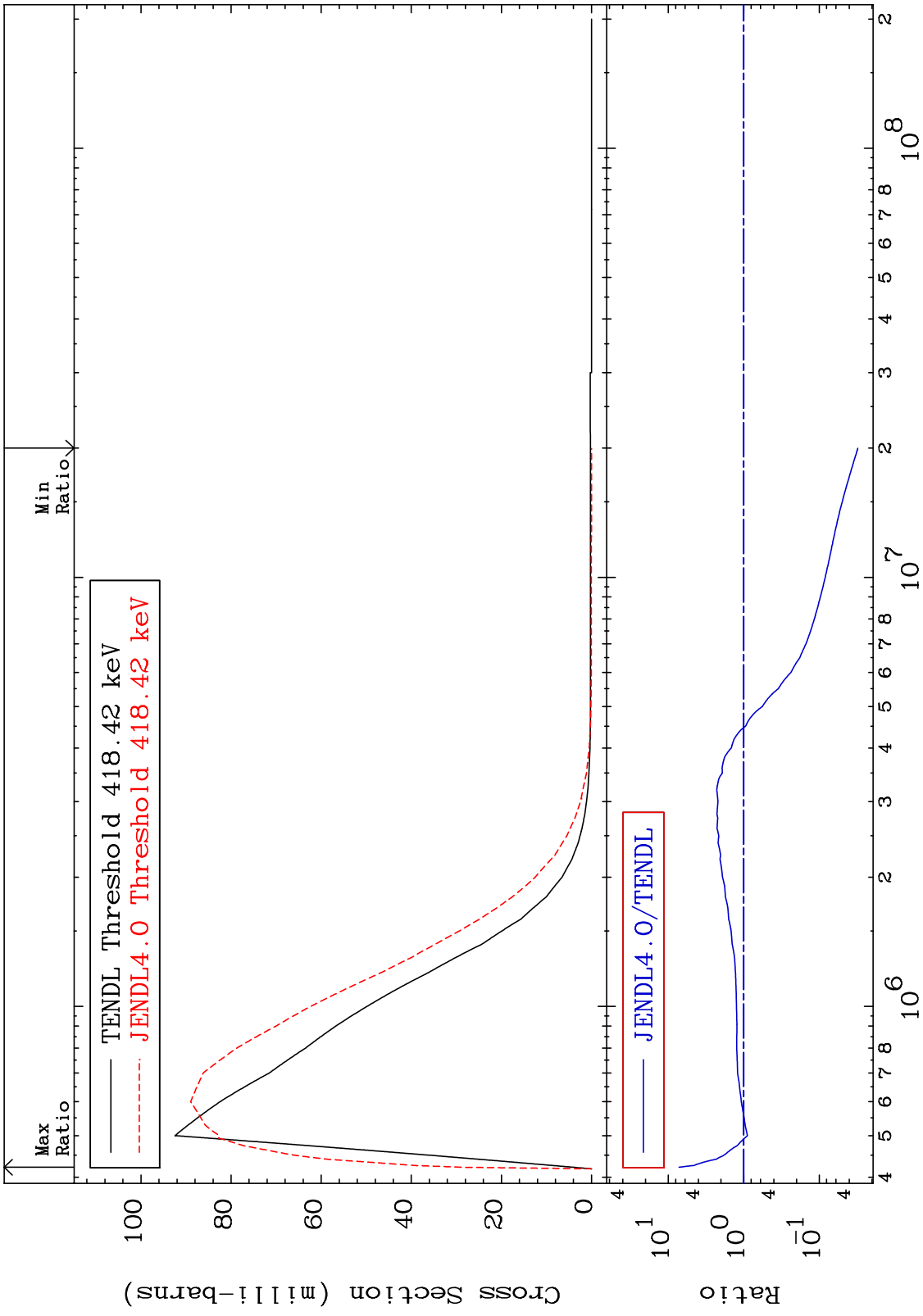
MAT 6246 MT= 74 (n,n') Level Cross Section 62-Sm-151 -99.94 To 87.17 %



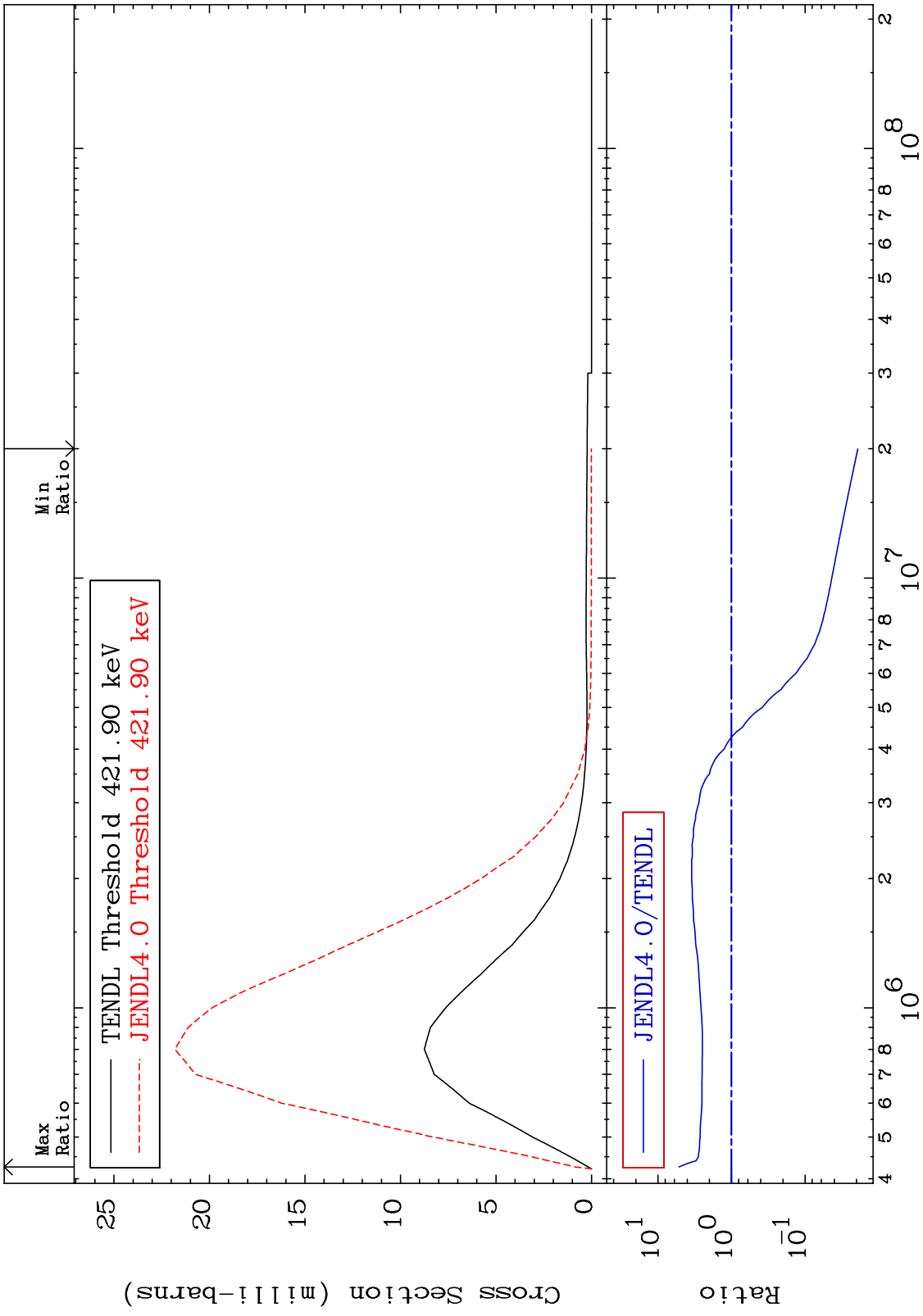
MAT 6246 MT= 75 (n,n') Level Cross Section 62-Sm-151 -85.19 To 296.3 %



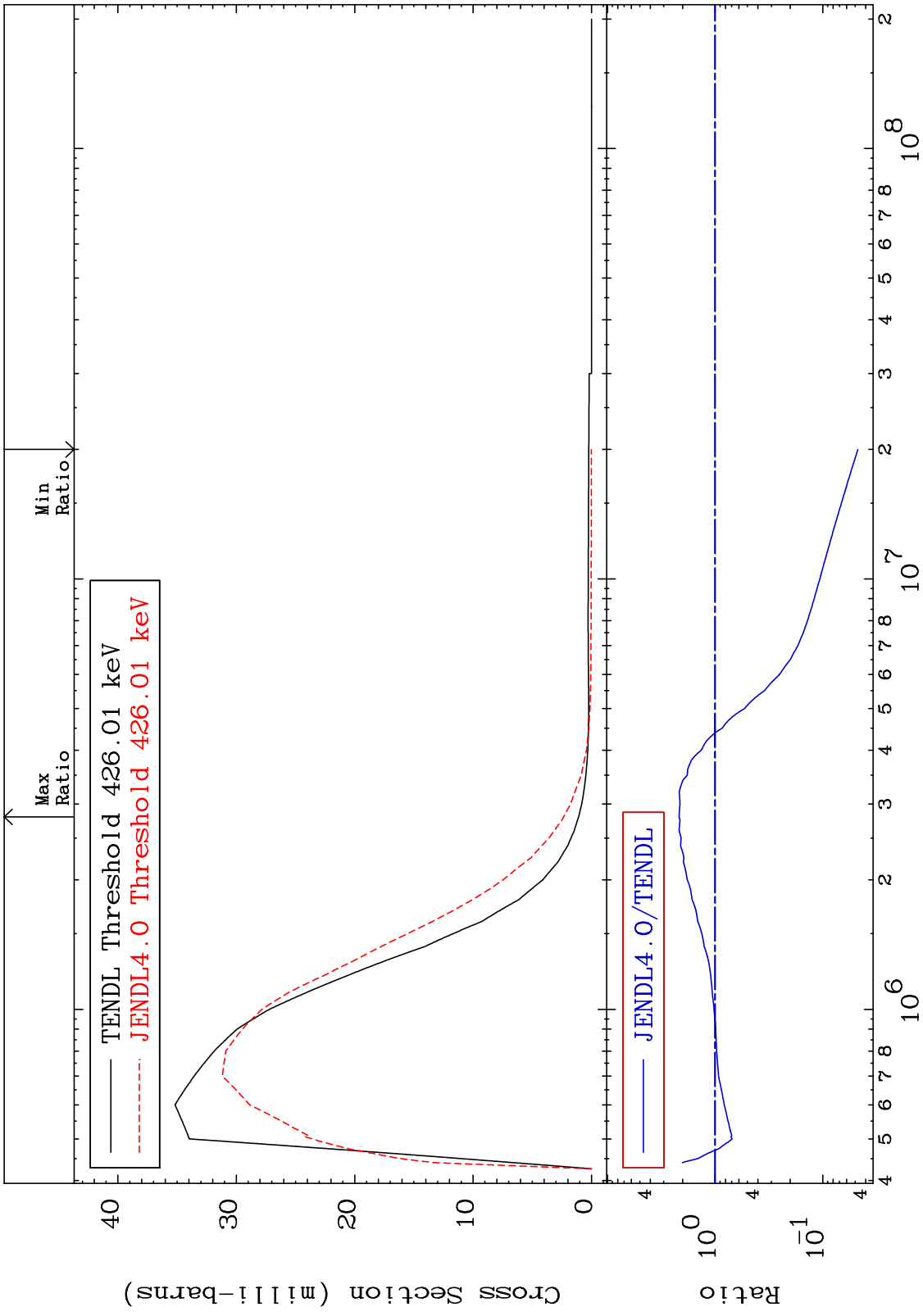
MAT 6246 MT= 76 (n,n') Level Cross Section 62-Sm-151 -96.92 To 620.2 %



MAT 6246 MT= 77 (n,n') Level Cross Section 62-Sm-151 -98.08 To 417.2 %

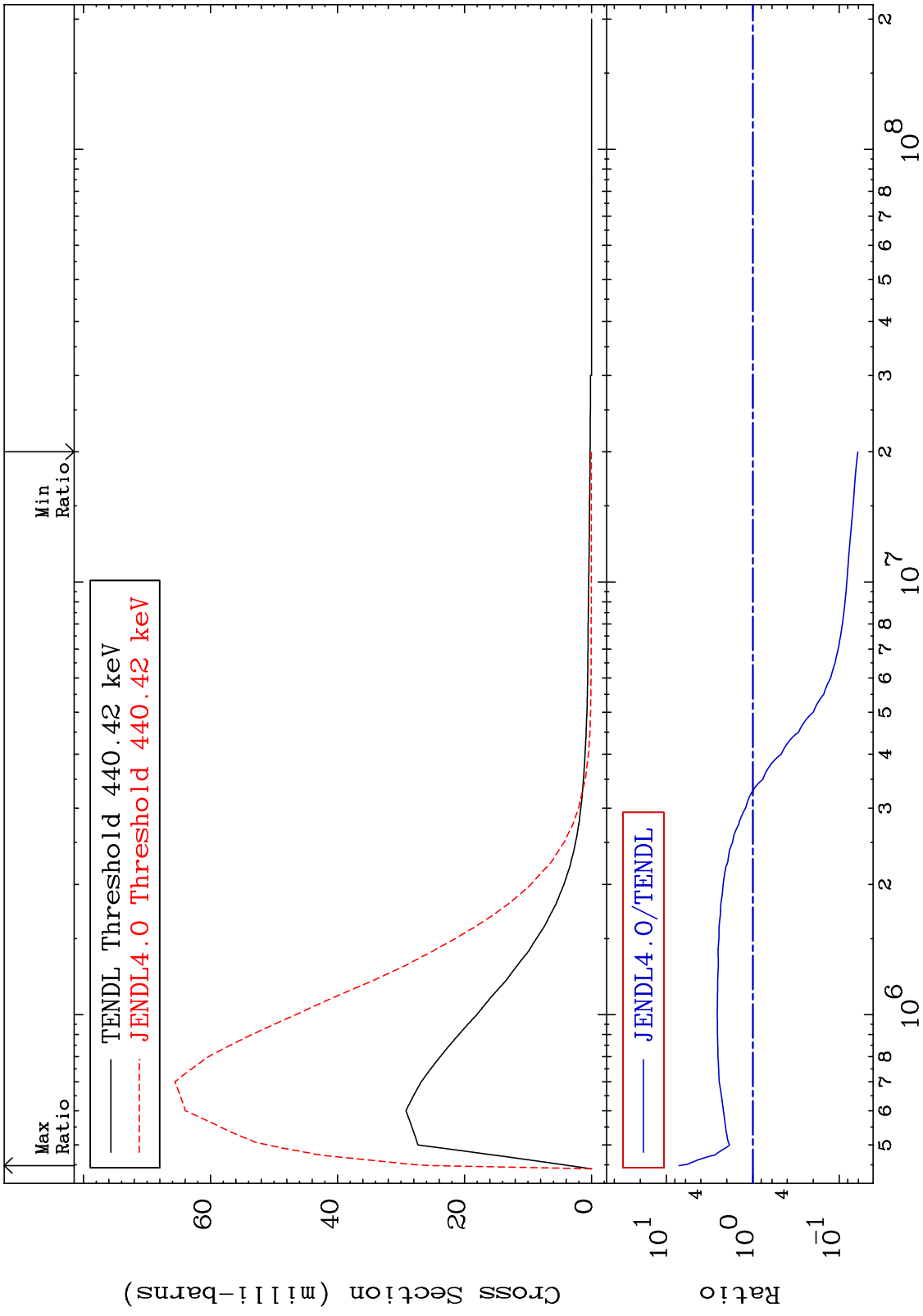


MAT 6246 MT= 78 (n,n') Level Cross Section 62-Sm-151 -95.28 To 116.0 %

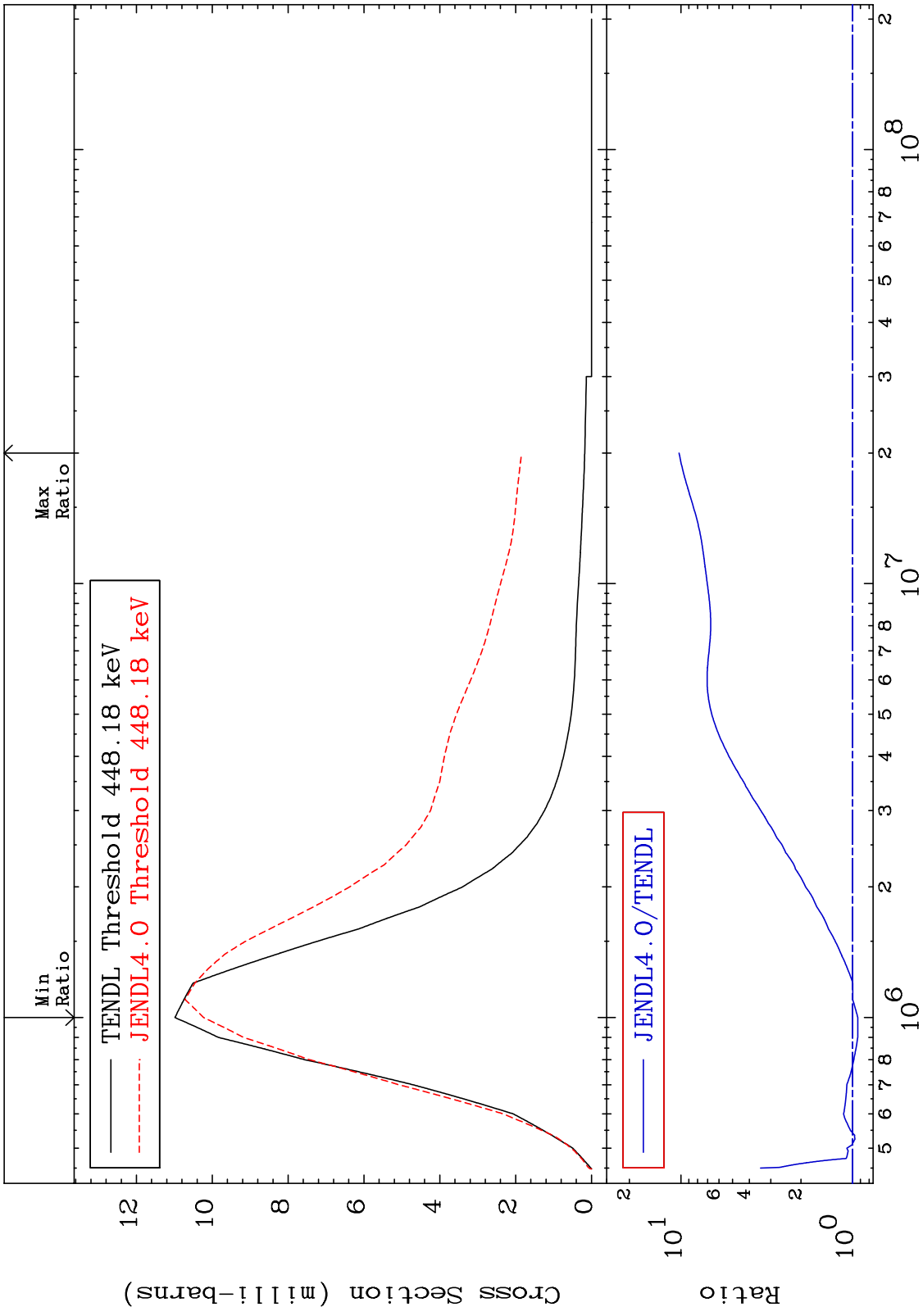


40 Incident Energy (eV) 62-Sm-151

MAT 6246 MT= 79 (n,n') Level Cross Section 62-Sm-151 -93.90 To 613.7 %



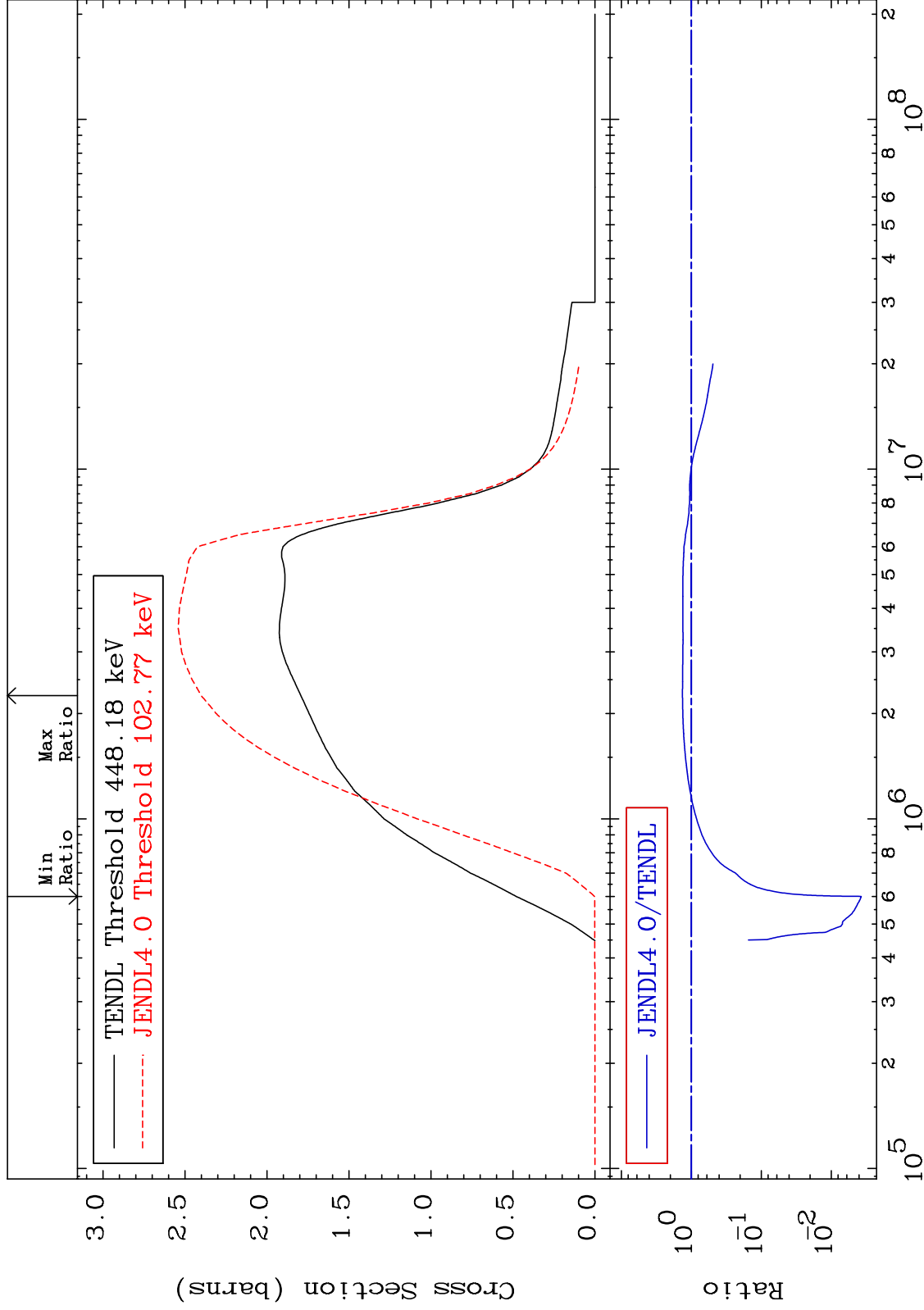
MAT 6246 MT= 80 (n,n') Level Cross Section 62-Sm-151 -6.880 To 926.7 %



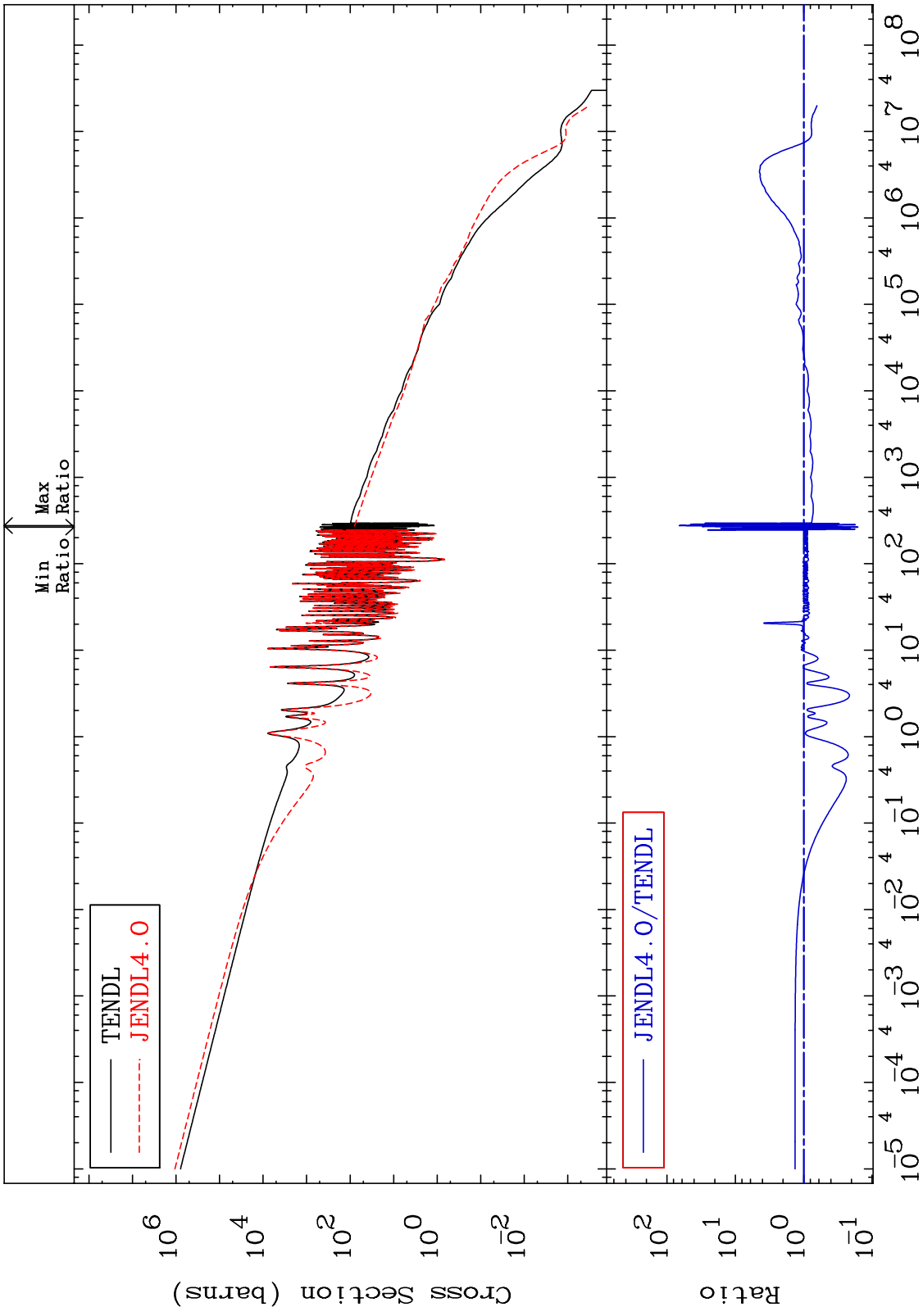
MAT 6246

(n,n') Continuum
Cross Section

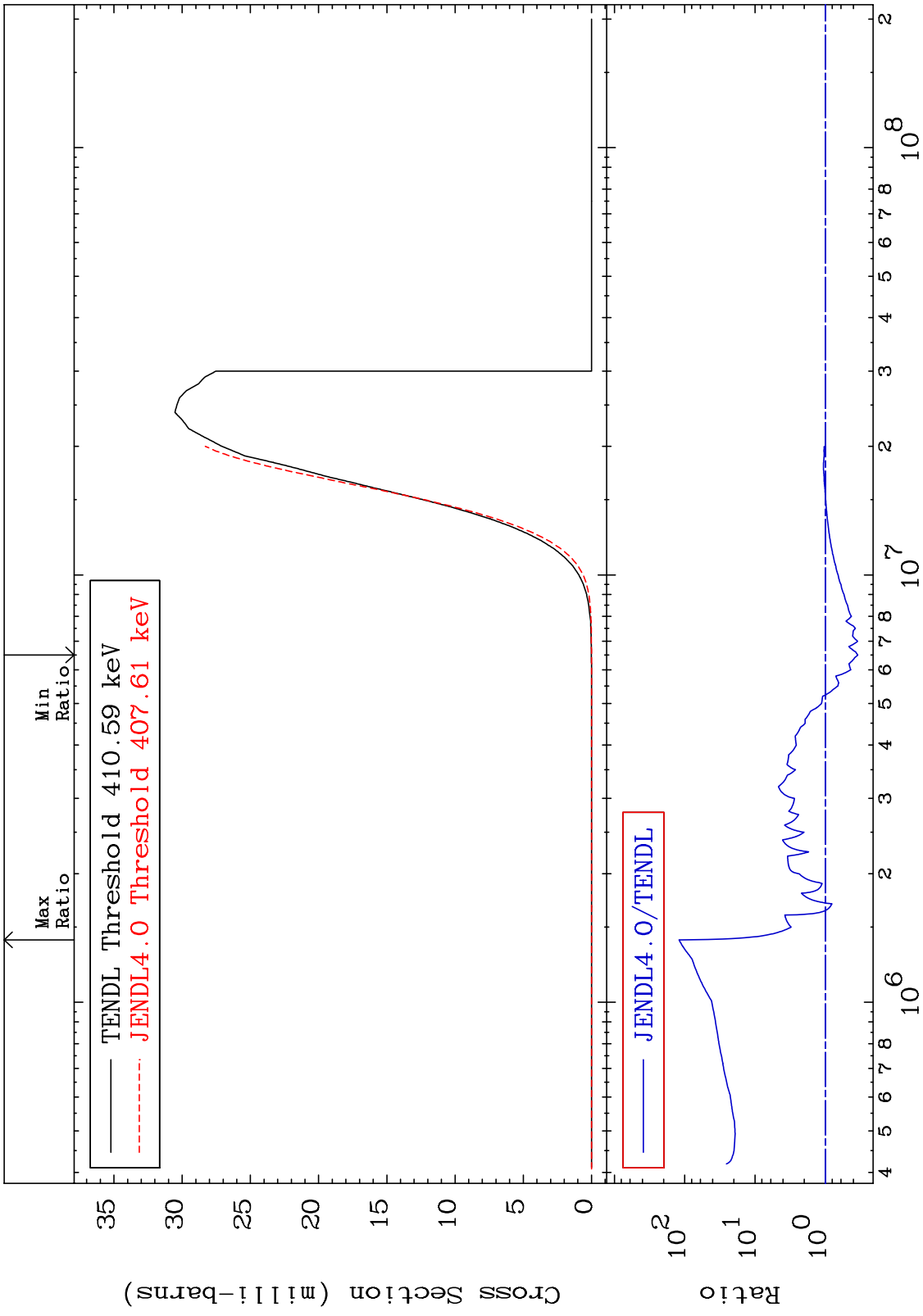
62-Sm-151
-99.63 To 33.95 %



MAT 6246 62-Sm-151
-83.84 To 6554. %
 Cross Section (n, γ)

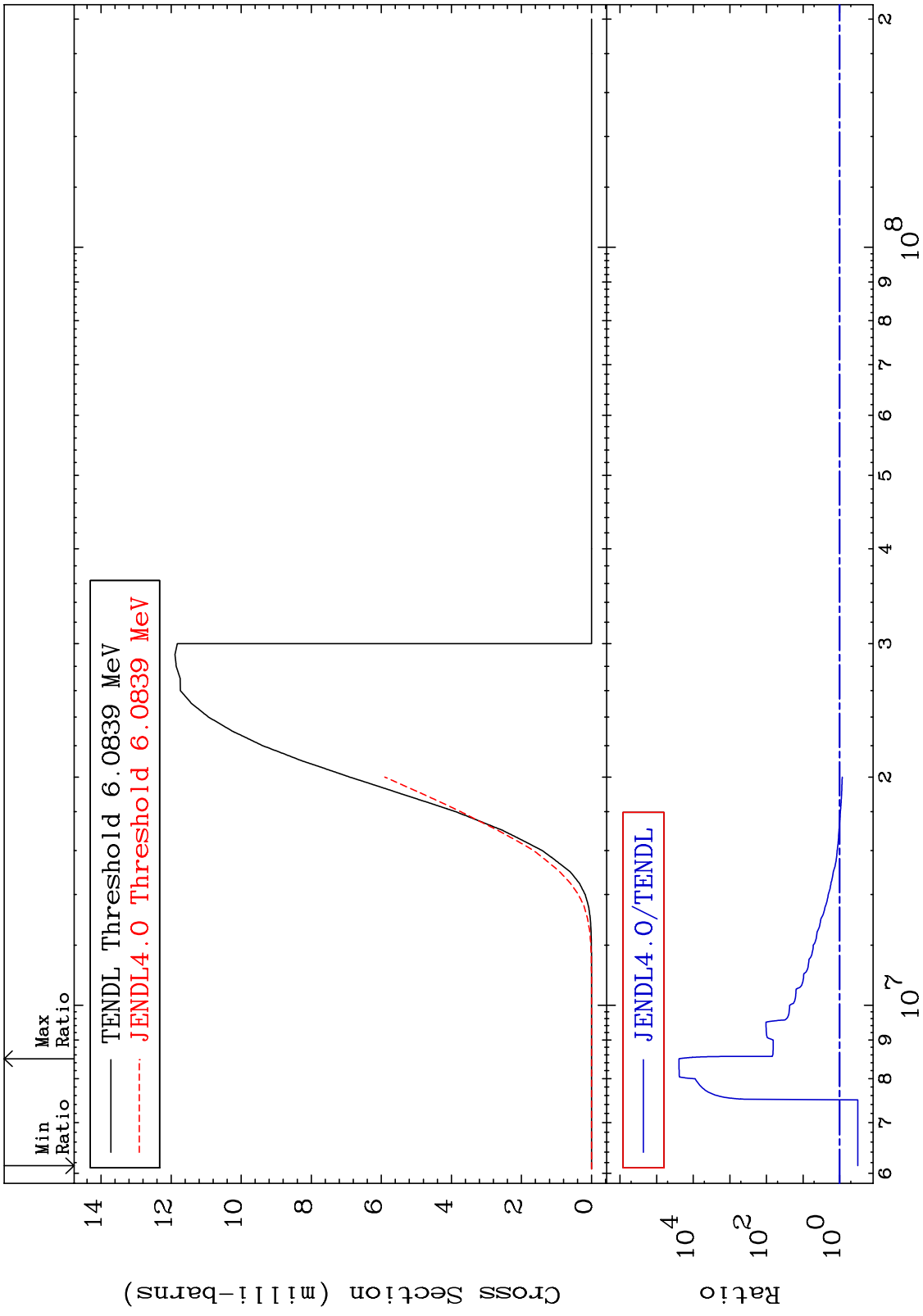


MAT 6246 (n,p) Cross Section 62-Sm-151 -65.38 To 9999. %



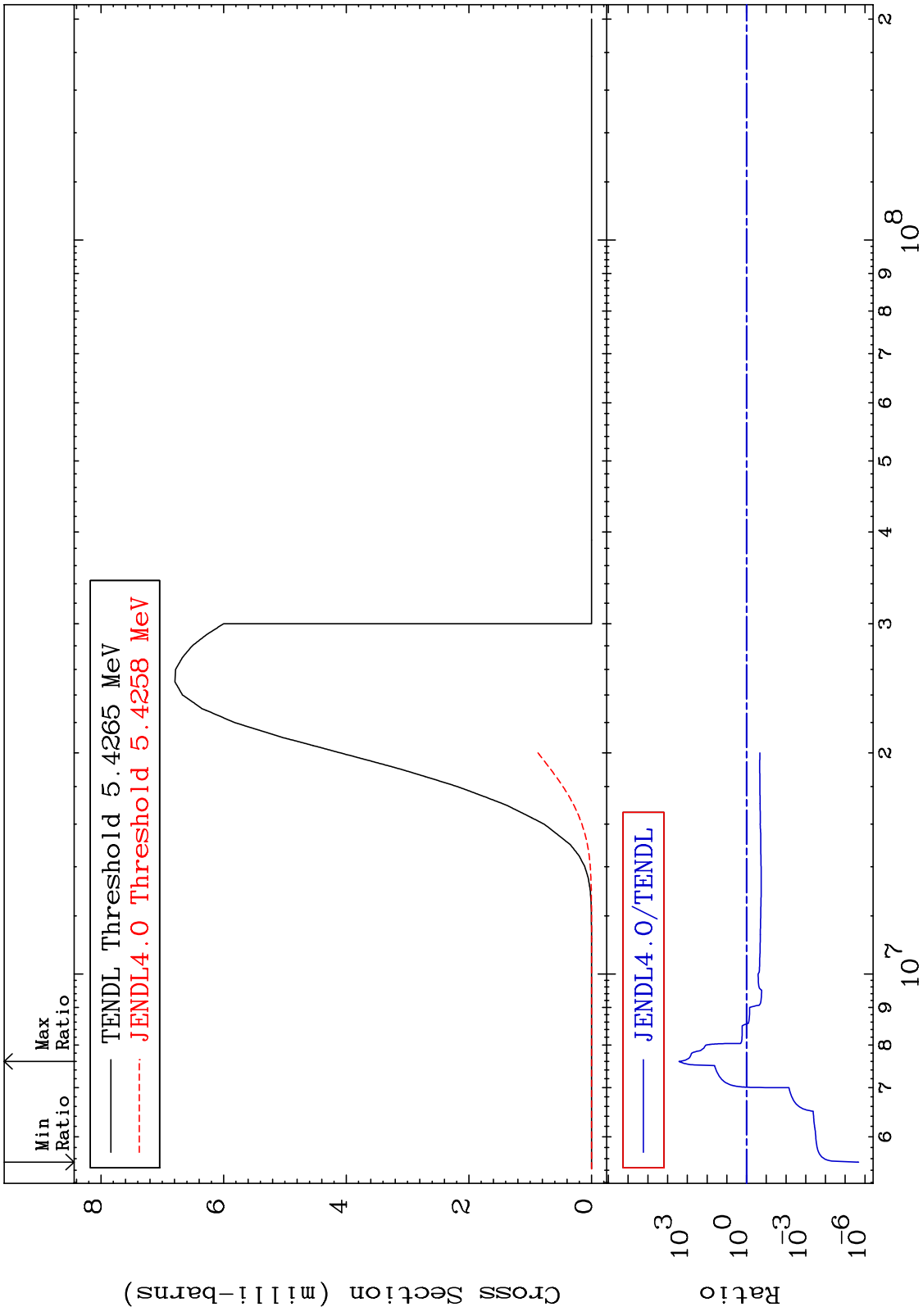
45 Incident Energy (eV) 62-Sm-151

MAT 6246 (n,d) Cross Section 62-Sm-151 -67.98 To 9999. %

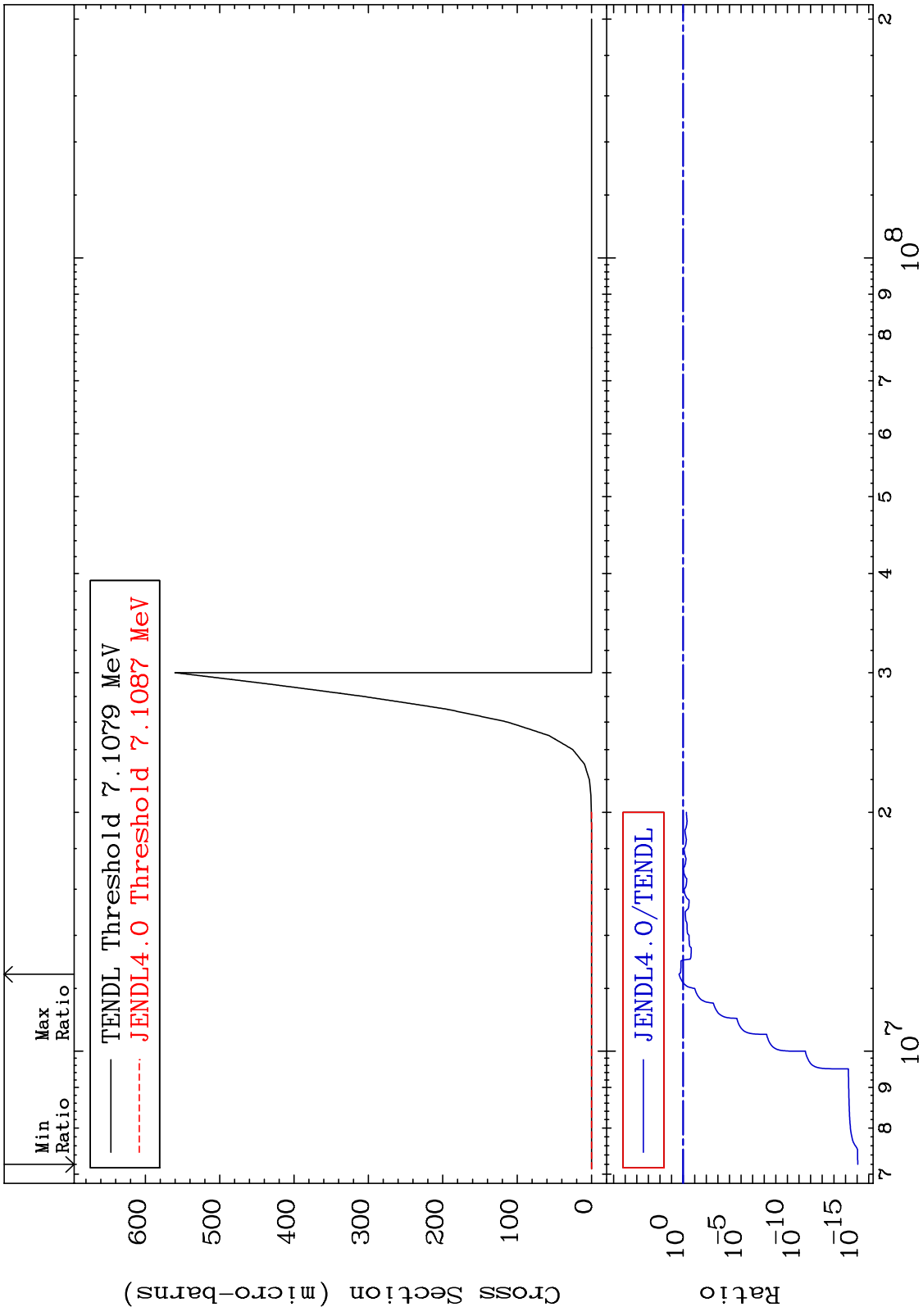


46 62-Sm-151

MAT 6246 (n,t) 62-Sm-151
 Cross Section -100.0 To 9999. %



MAT 6246 (n, He-3) 62-Sm-151
 Cross Section -100.0 To 128.6 %



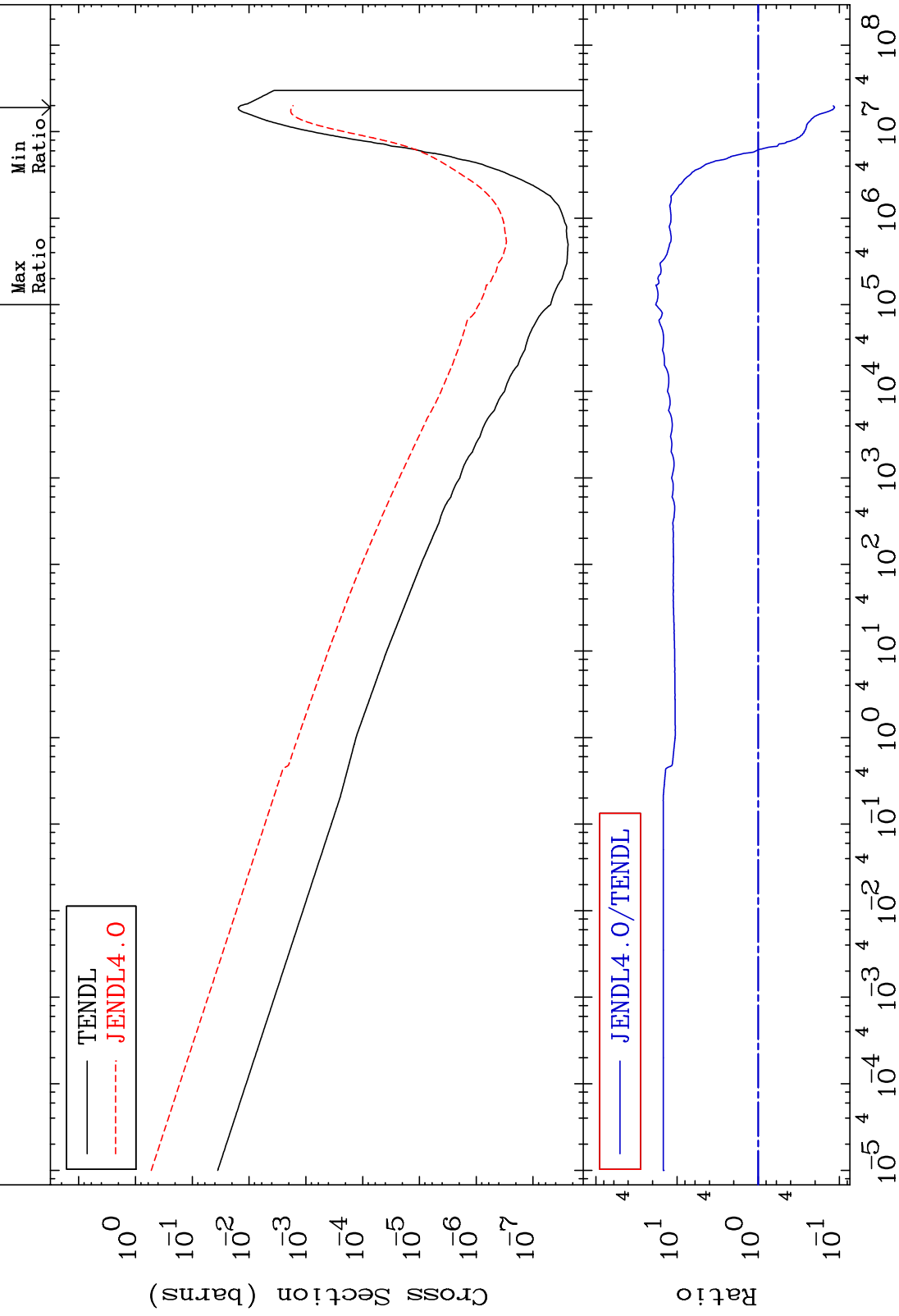
MAT 6246

(n, α)

62-Sm-151

Cross Section

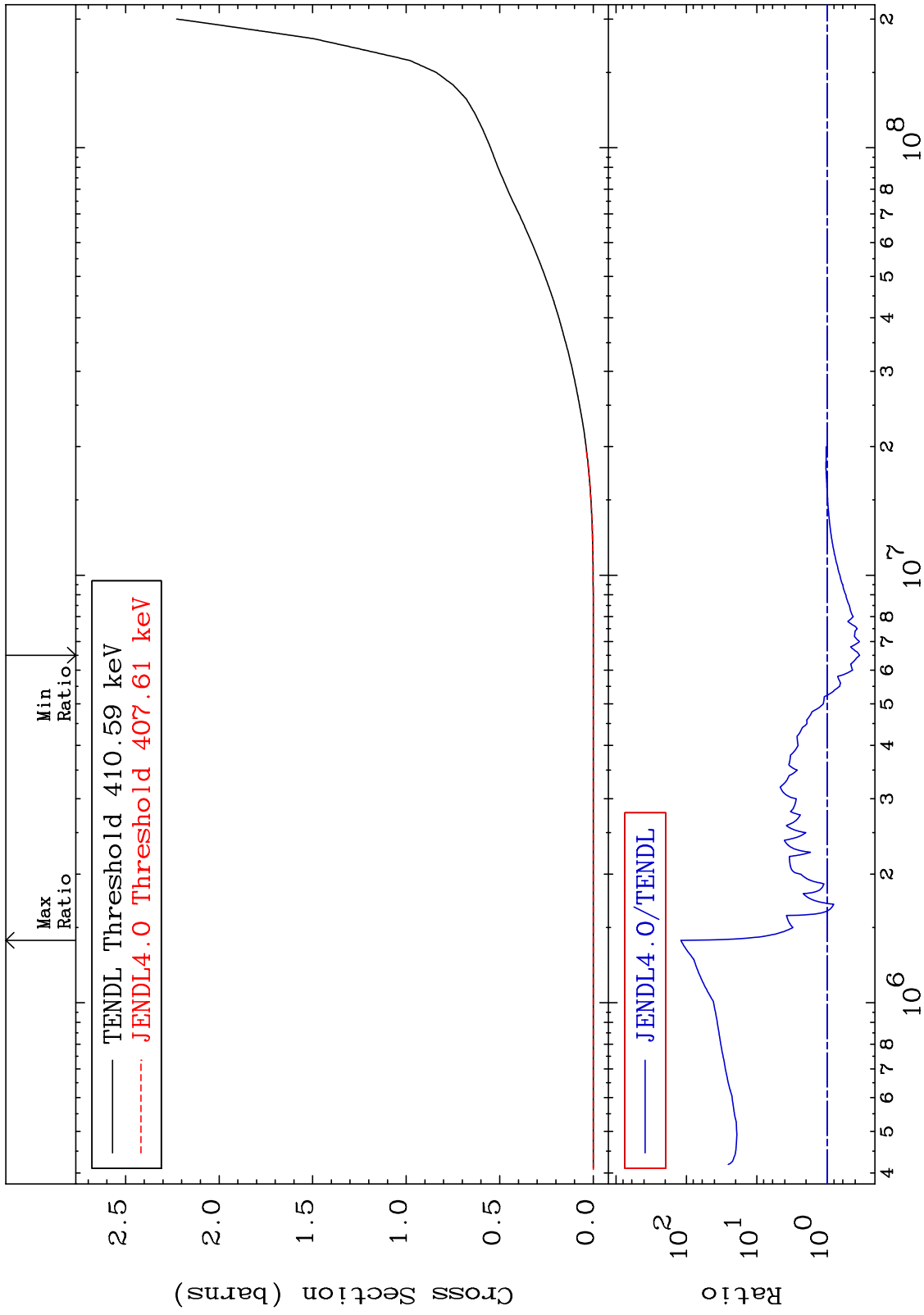
-88.52 To 1732. %



MAT 6246

Hydrogen Production
Cross Section

62-Sm-151
-65.38 To 9999. %



50

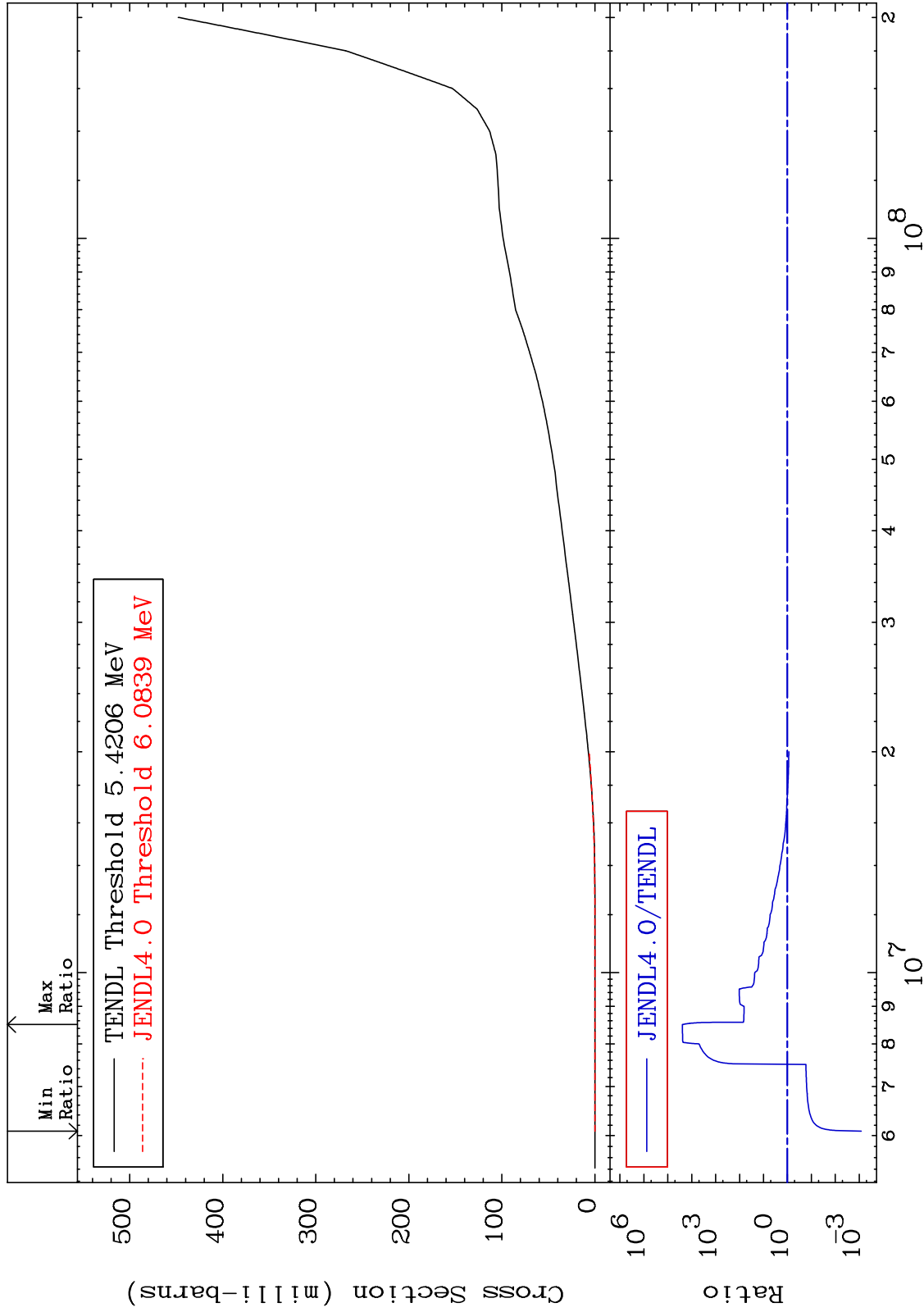
Incident Energy (eV)

62-Sm-151

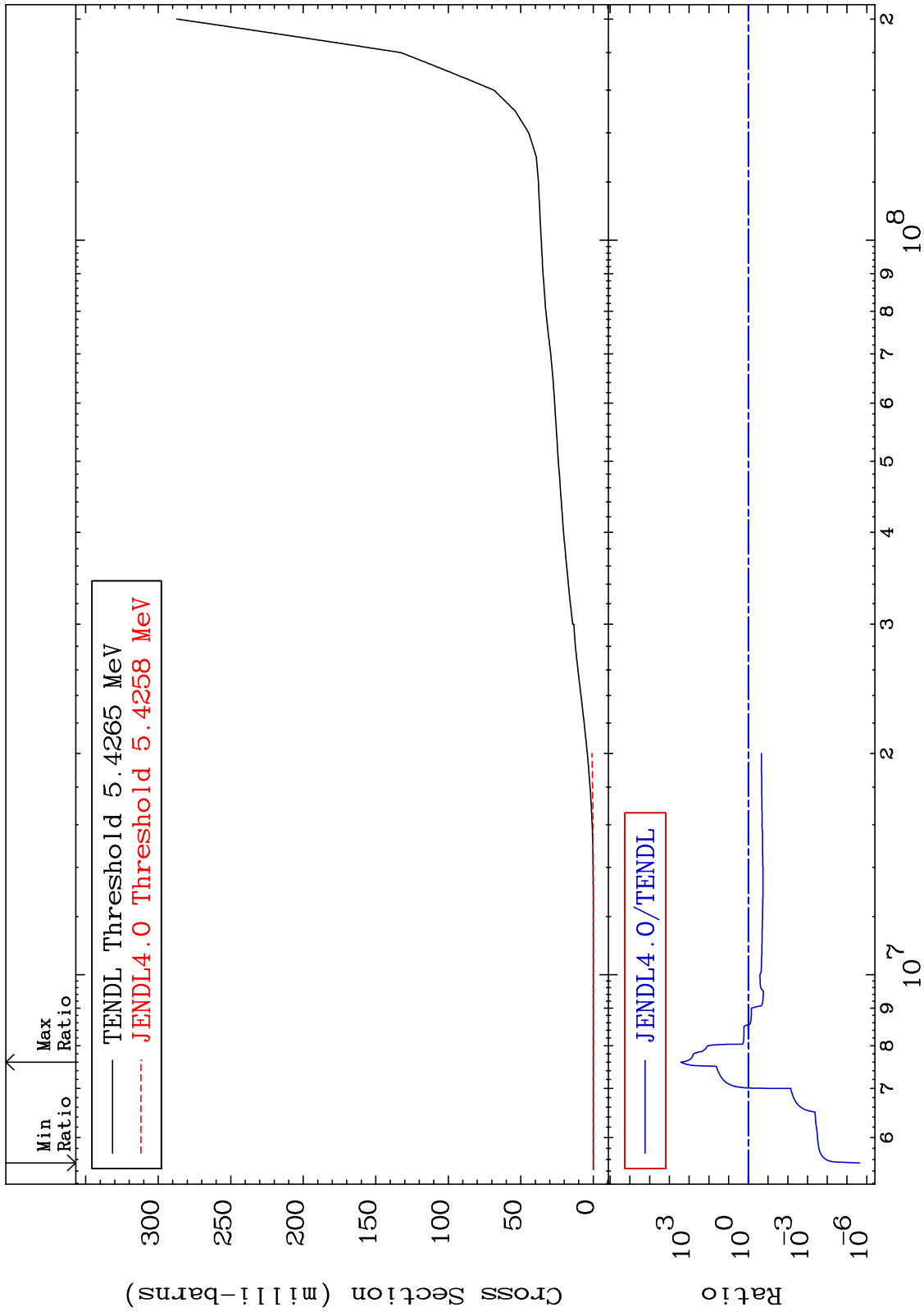
MAT 6246

Deuterium Production
Cross Section

62-Sm-151
-99.92 To 9999. %



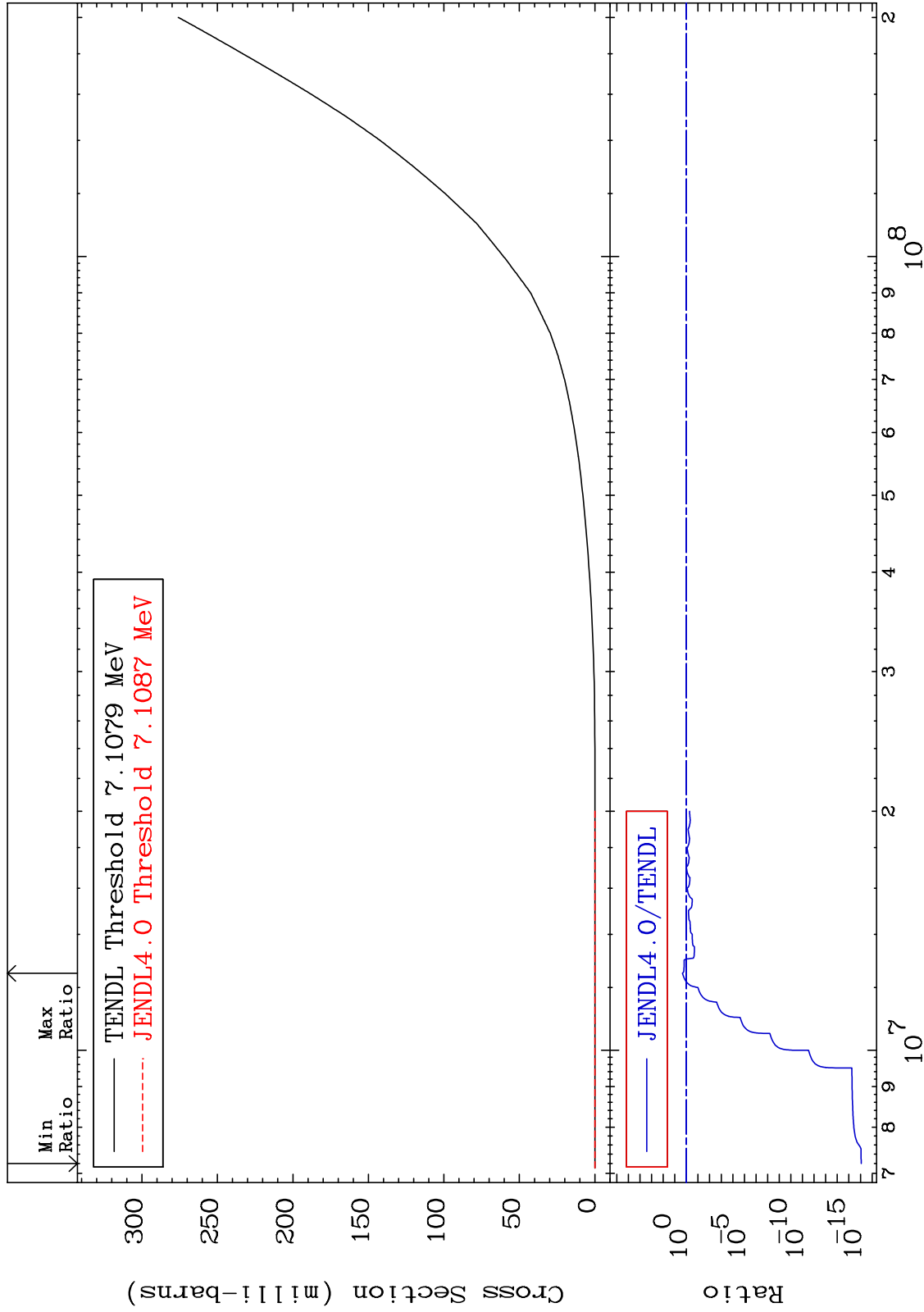
MAT 6246 Tritium Production Cross Section 62-Sm-151
 -100.0 To 9999. %



MAT 6246

He-3 Production
Cross Section

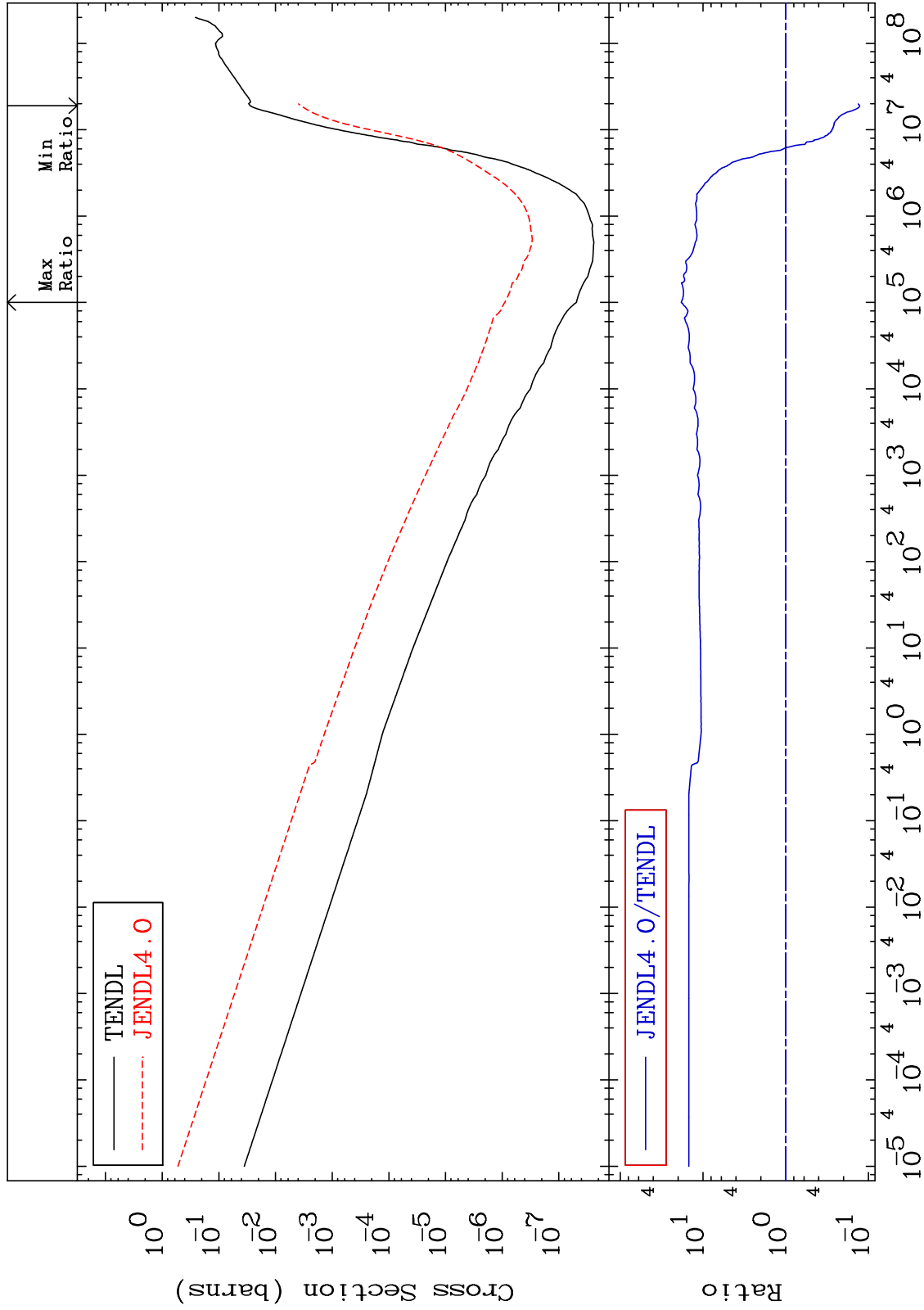
62-Sm-151
-100.0 To 118.1 %



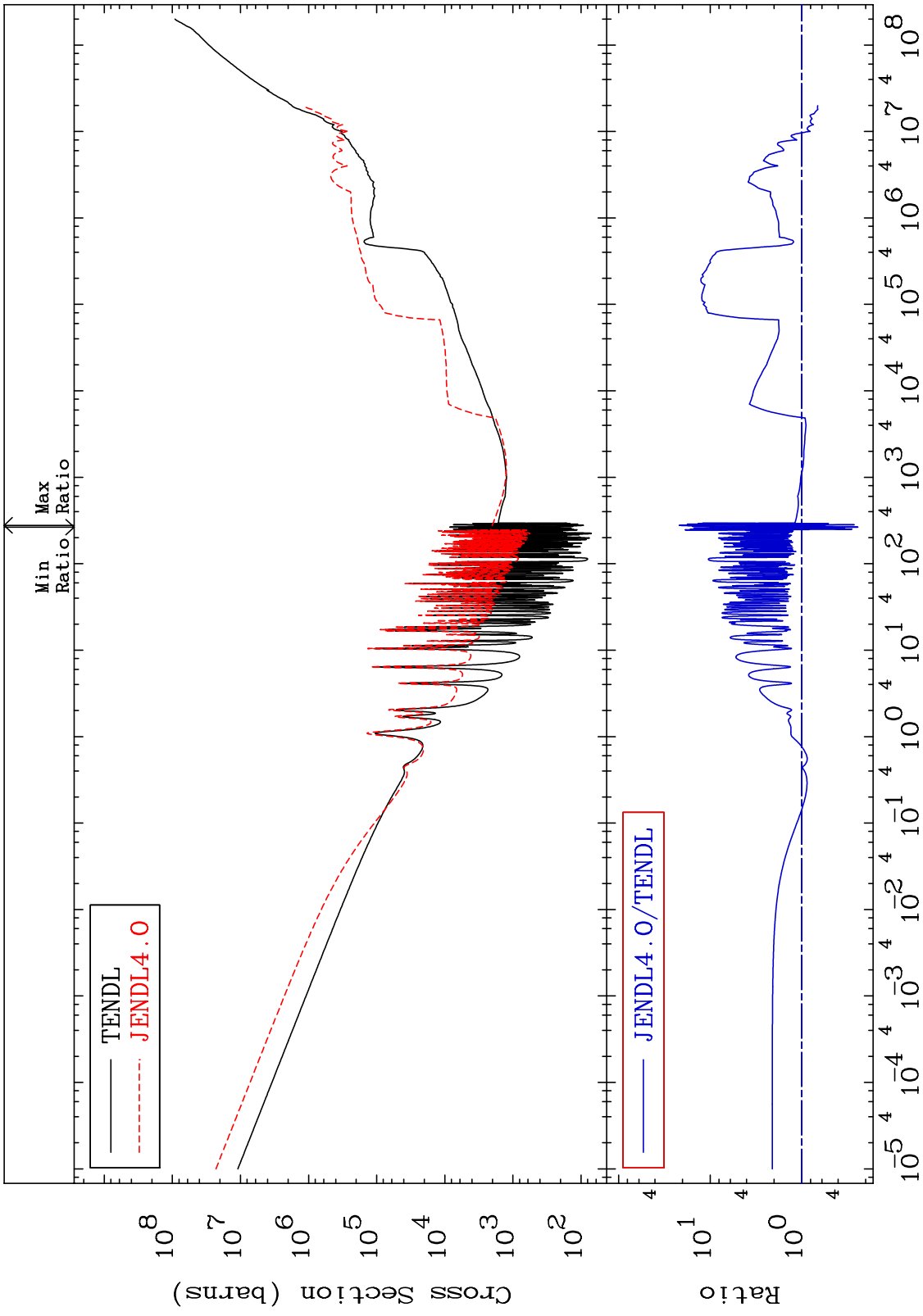
MAT 6246

He-4 Production
Cross Section

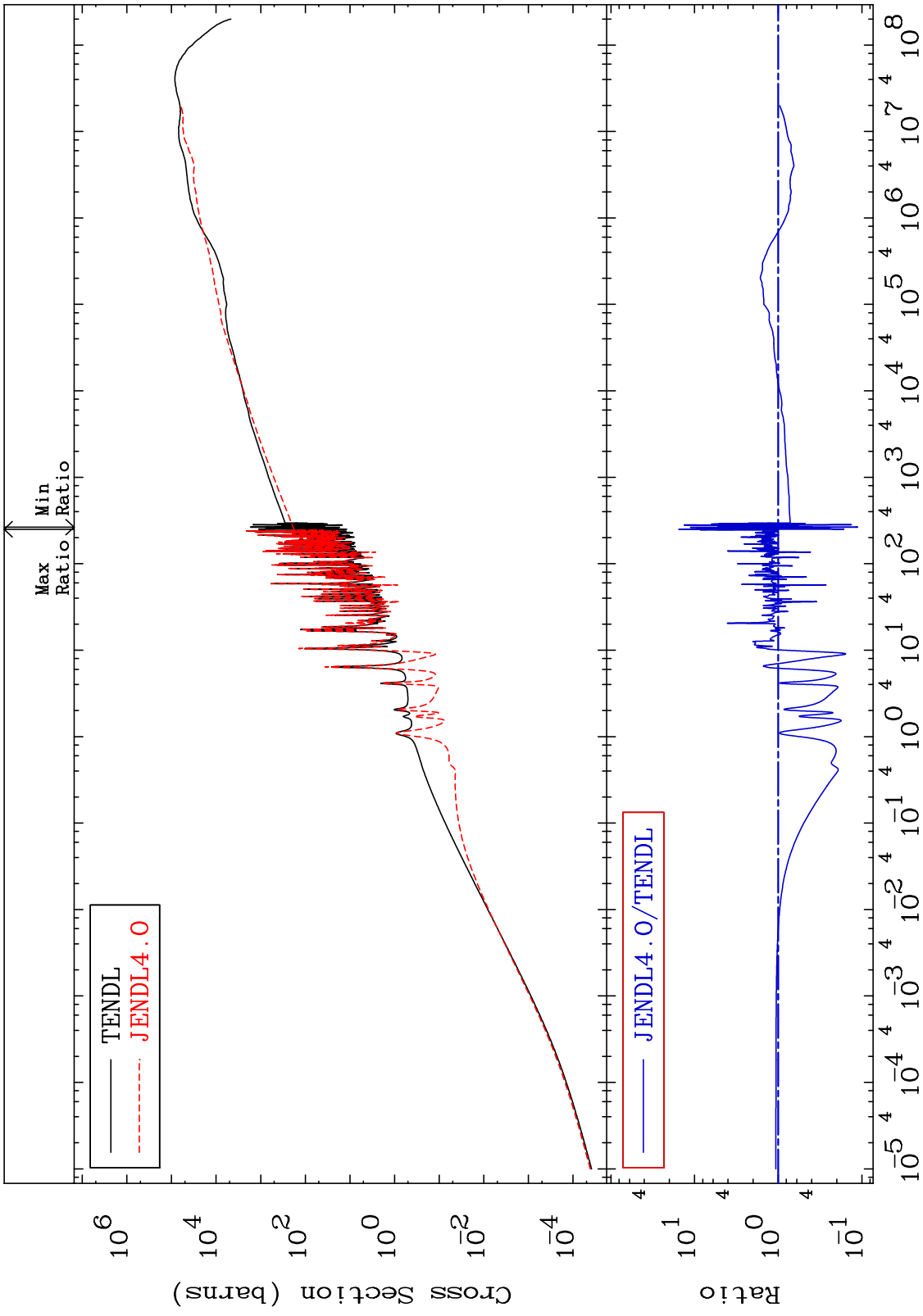
62-Sm-151
-87.27 To 1732. %



MAT 6246 Kerma total (eV-barns) Cross Section 62-Sm-151 -75.62 To 2085. %

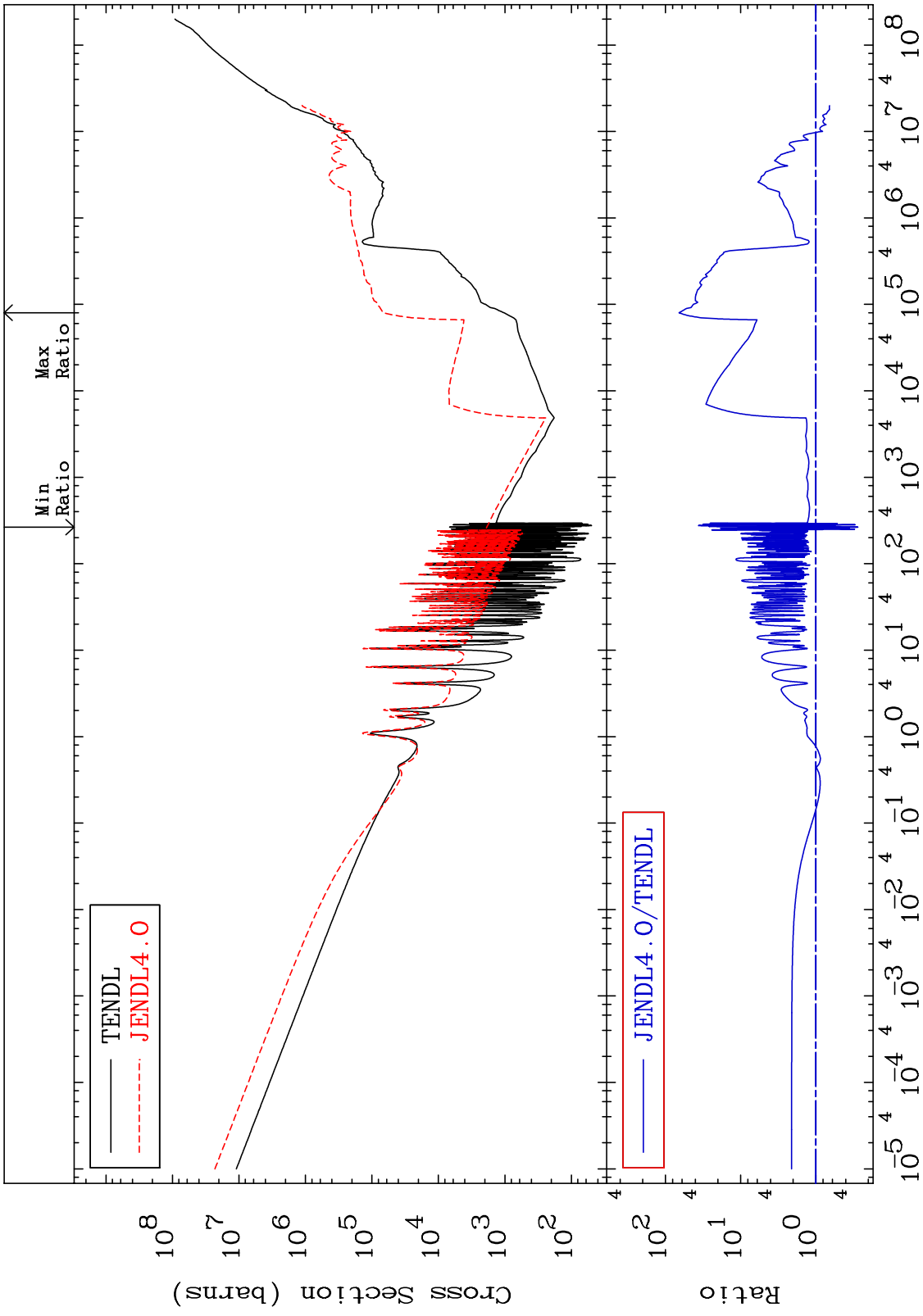


MAT 6246 Kerma elastic Cross Section 62-Sm-151
 -88.79 To 1434. %

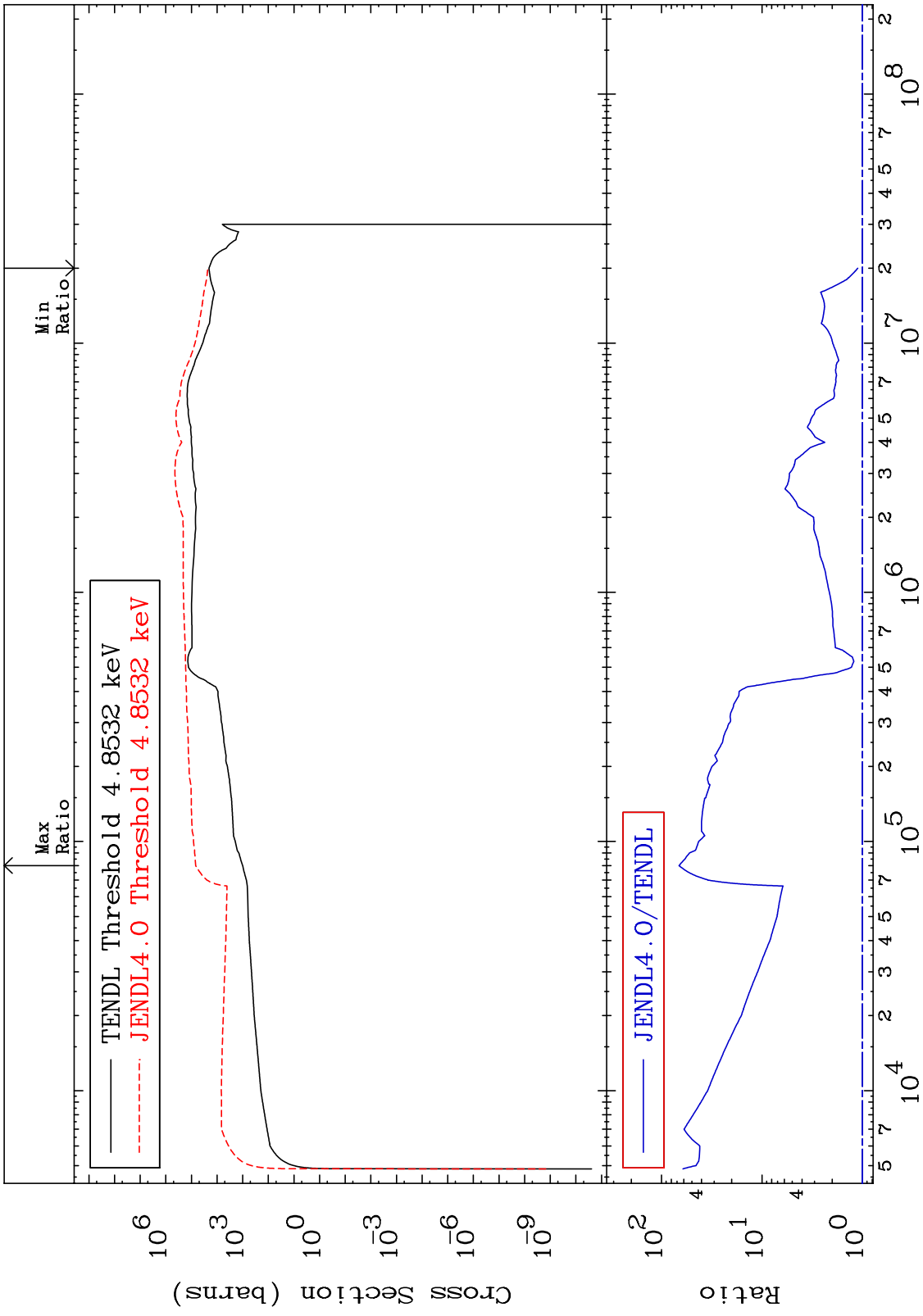


56 Incident Energy (eV) 62-Sm-151

MAT 6246 Kerma non-elastic (all but mt2) 62-Sm-151
 Cross Section -72.38 To 6482. %



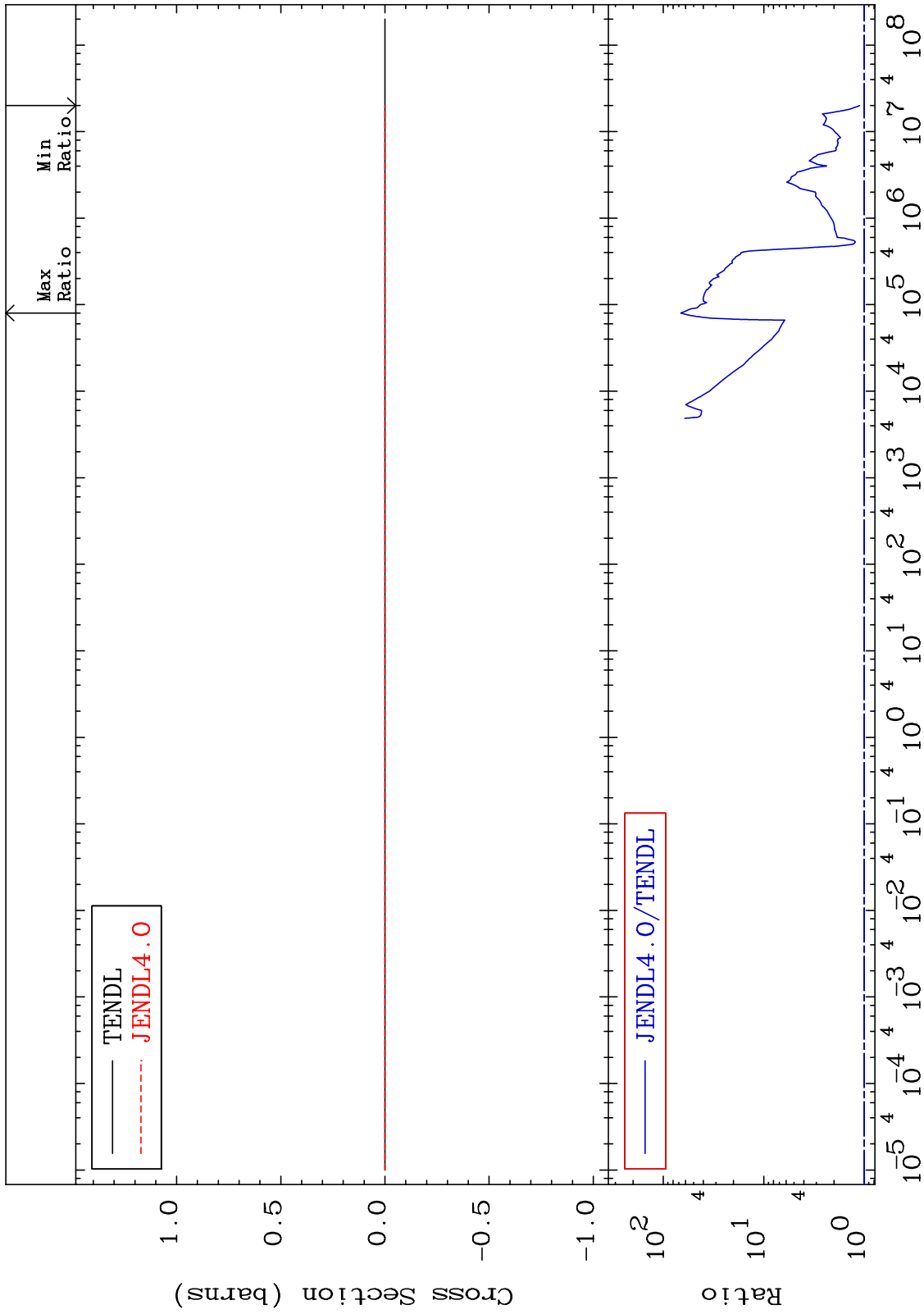
MAT 6246 Kerma inelastic (mt51-91) Cross Section 62-Sm-151 To 6596. %



MAT 6246

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

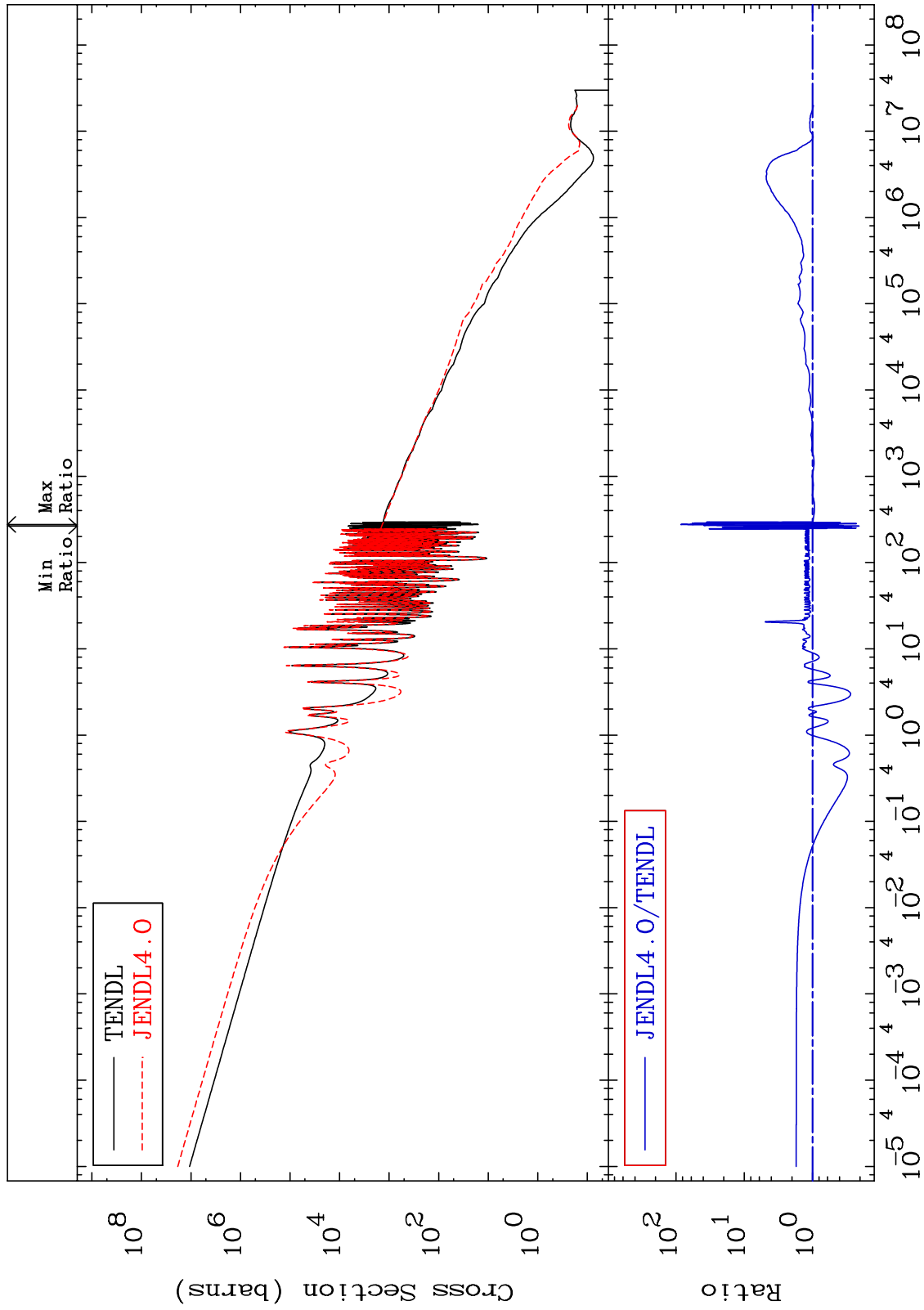
62-Sm-151
11.19 To 6596. %



MAT 6246

Kerma capture (mt102)
Cross Section

62-Sm-151
-79.22 To 8458. %

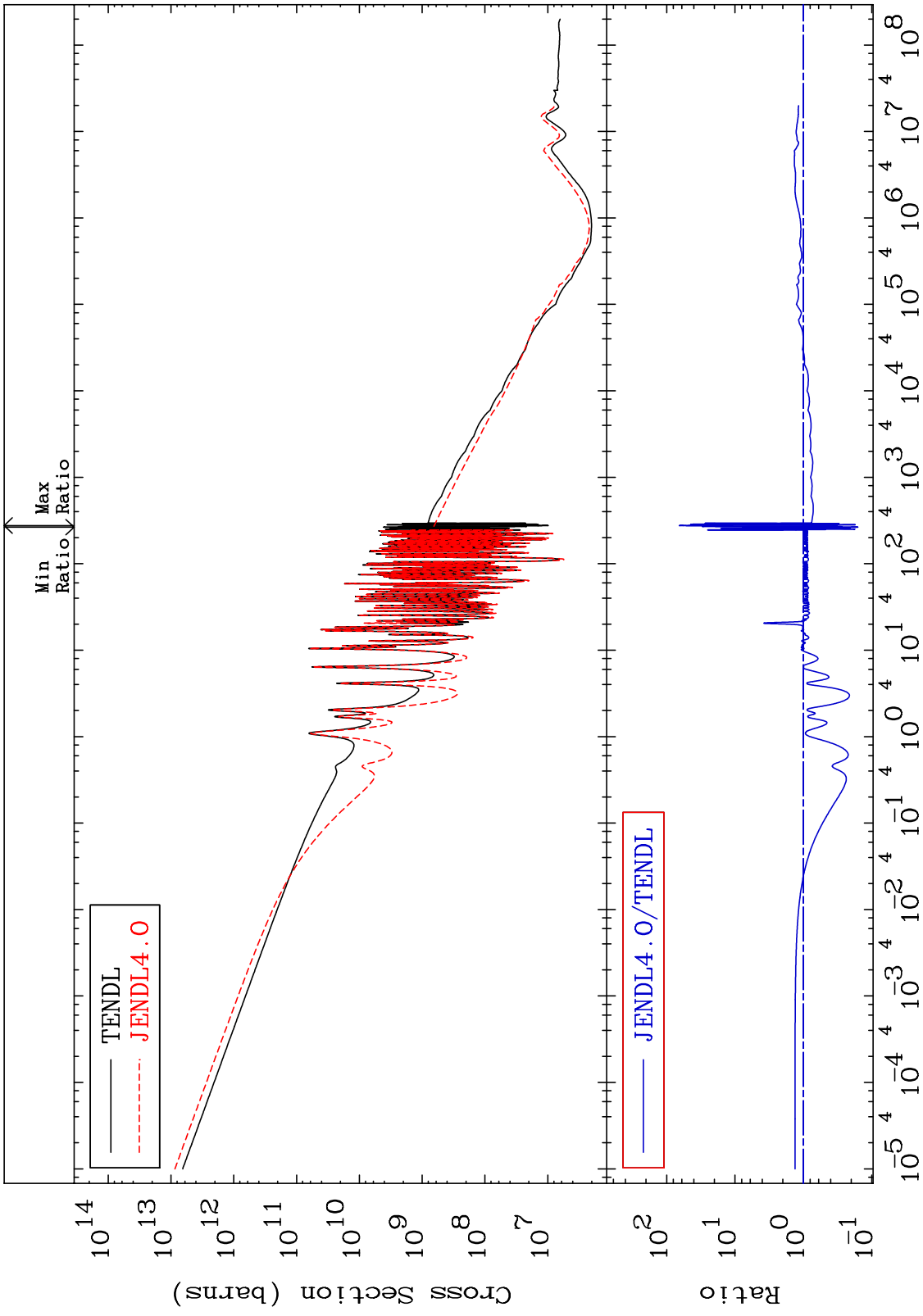


60

Incident Energy (eV)

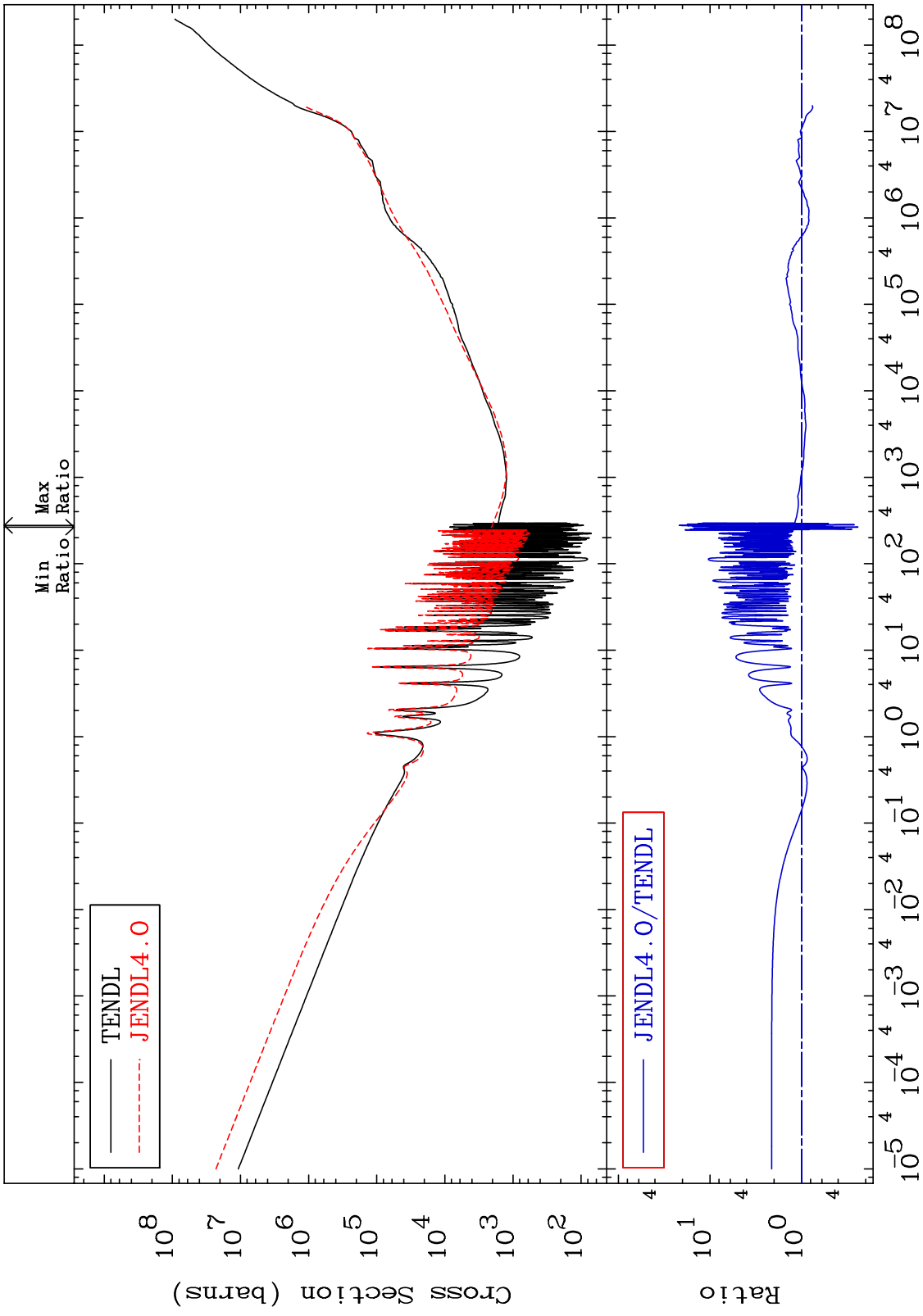
62-Sm-151

MAT 6246 62-Sm-151 -84.00 To 6489. %
Total photon (eV-barns)
Cross Section

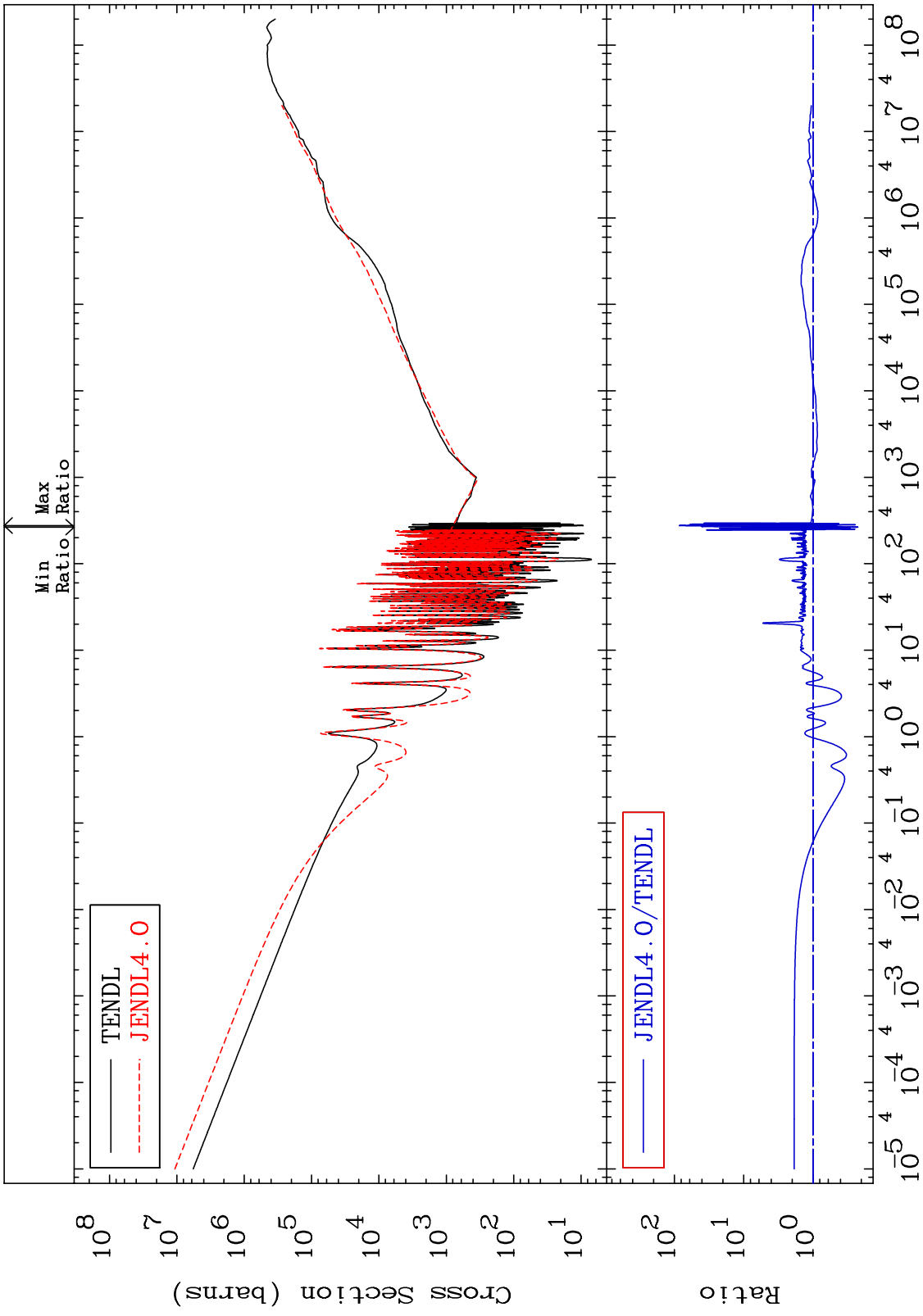


61 62-Sm-151
Incident Energy (eV)

MAT 6246 Total kinematic kerma (high limit) 62-Sm-151
Cross Section -75.62 To 2080. %

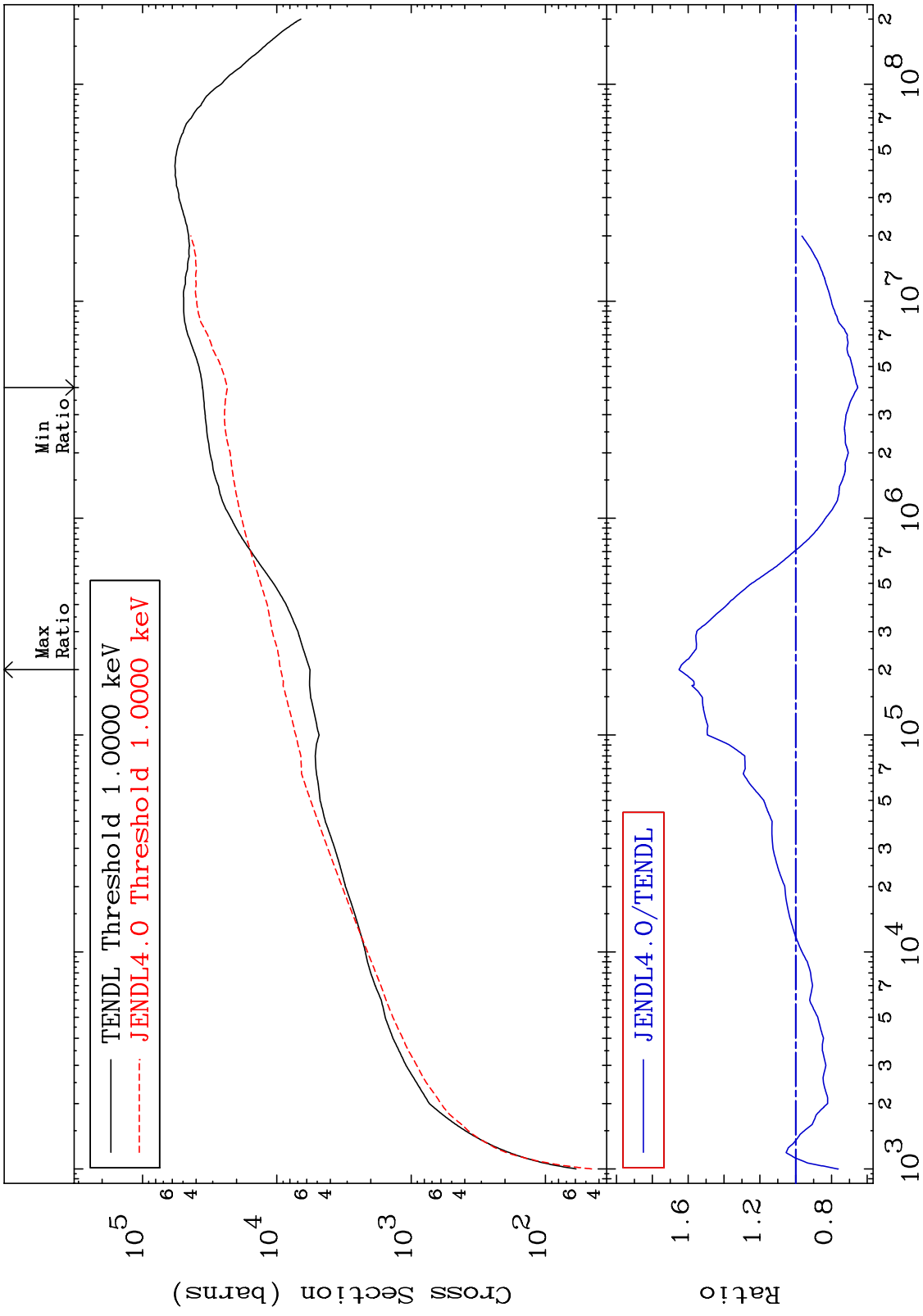


MAT 6246 Dpa total (eV-barns) 62-Sm-151
 -77.49 To 8466. %
 Cross Section



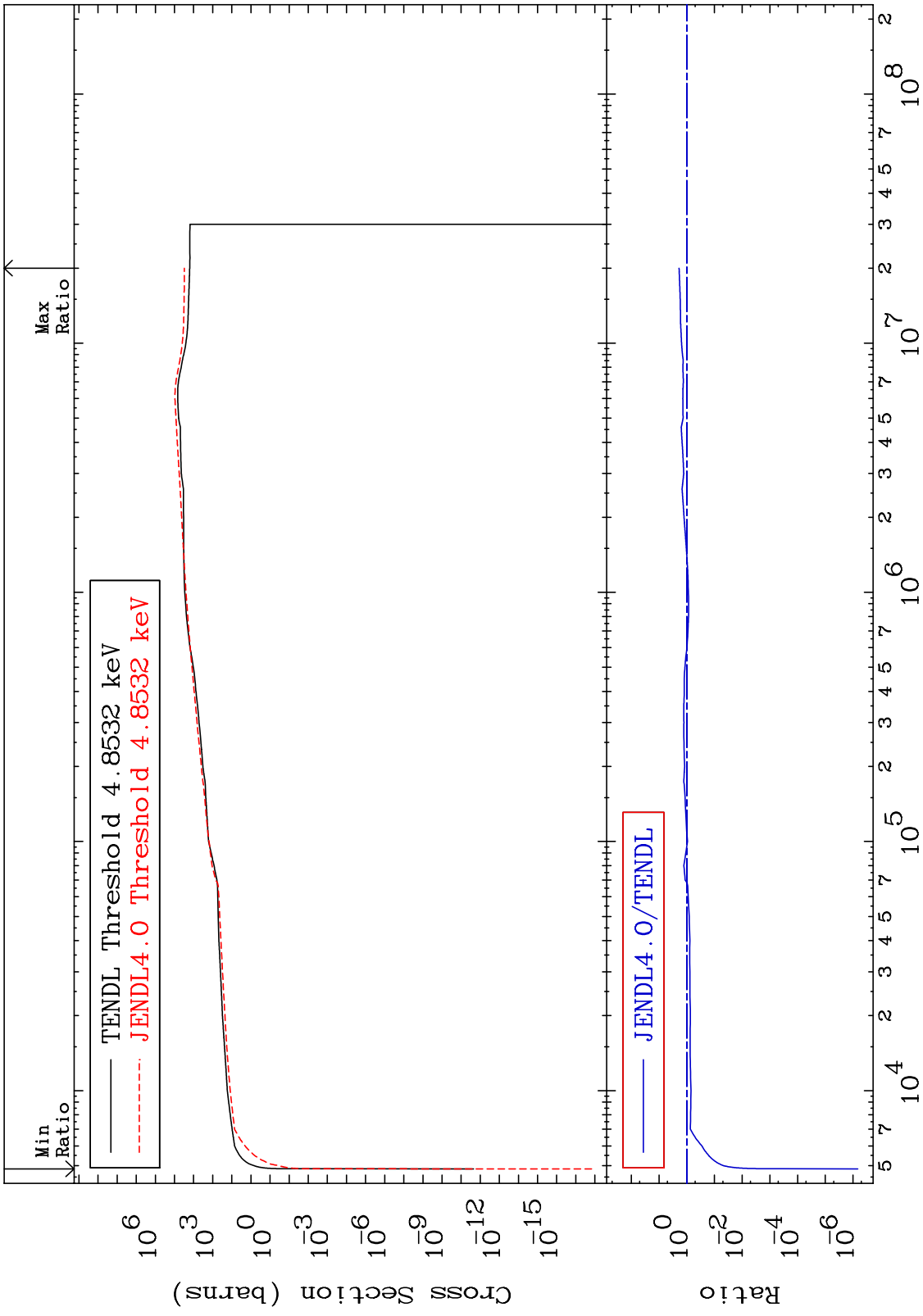
63 Incident Energy (eV) 62-Sm-151

MAT 6246 62-Sm-151
 Dpa elastic (mt2) -34.72 To 65.08 %
 Cross Section



64 62-Sm-151

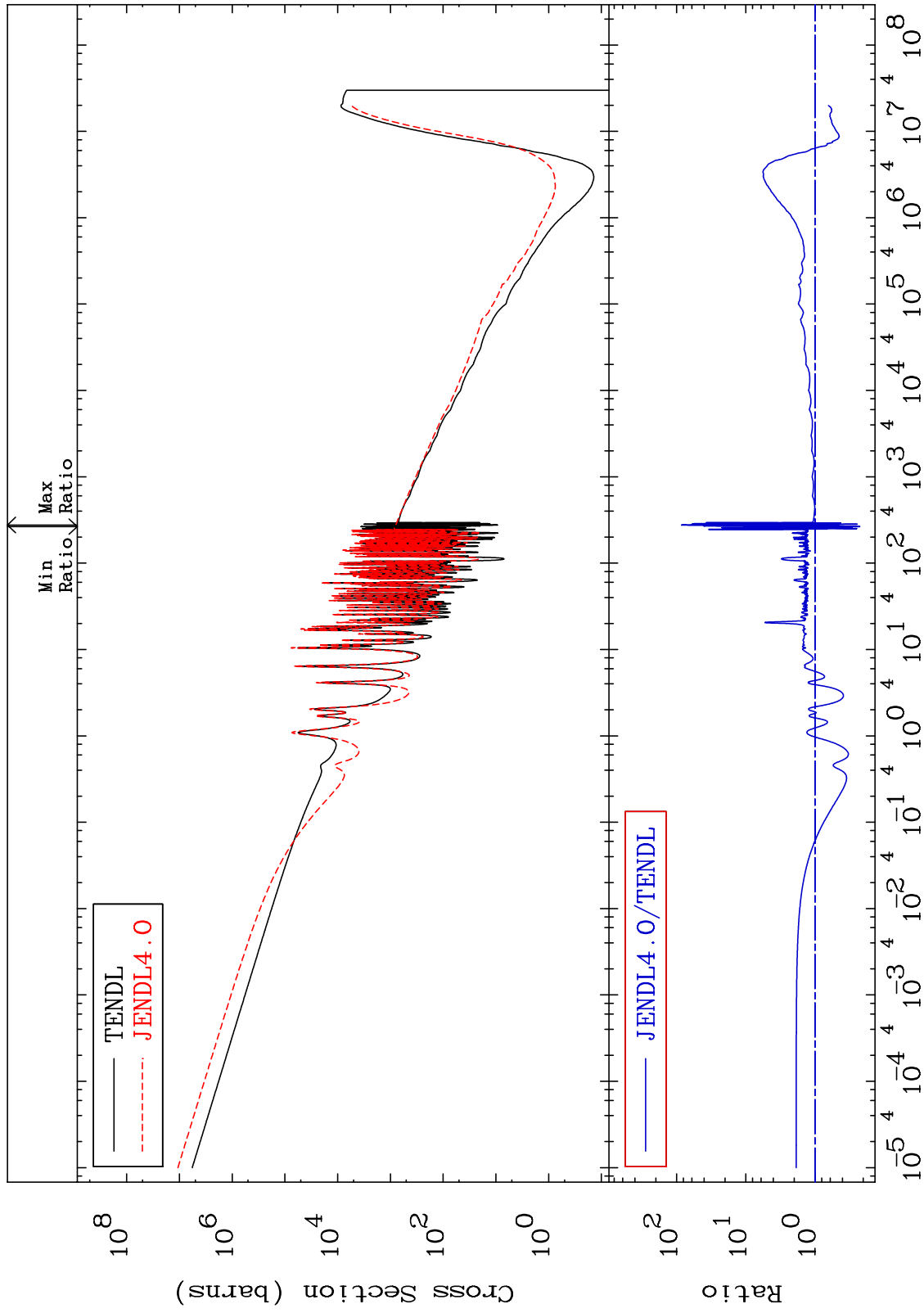
MAT 6246 Dpa inelastic (mt51-91) 62-Sm-151
 Cross Section -100.0 To 90.25 %



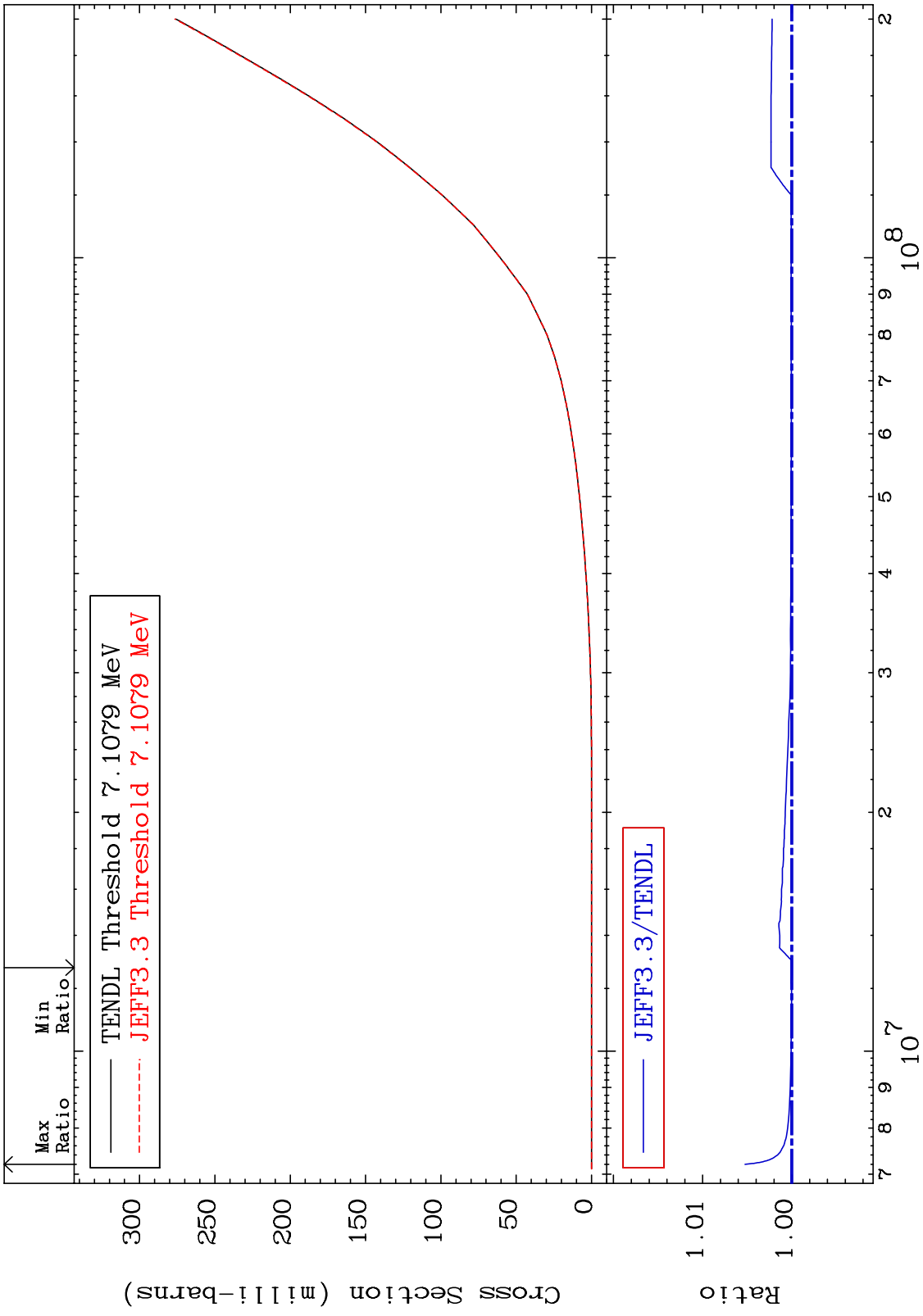
MAT 6246

Dpa disappearance (mt102 -120)
Cross Section

62-Sm-151
-77.49 To 8466. %



MAT 6246 He-3 Production Cross Section 62-Sm-151 To 0.524 %

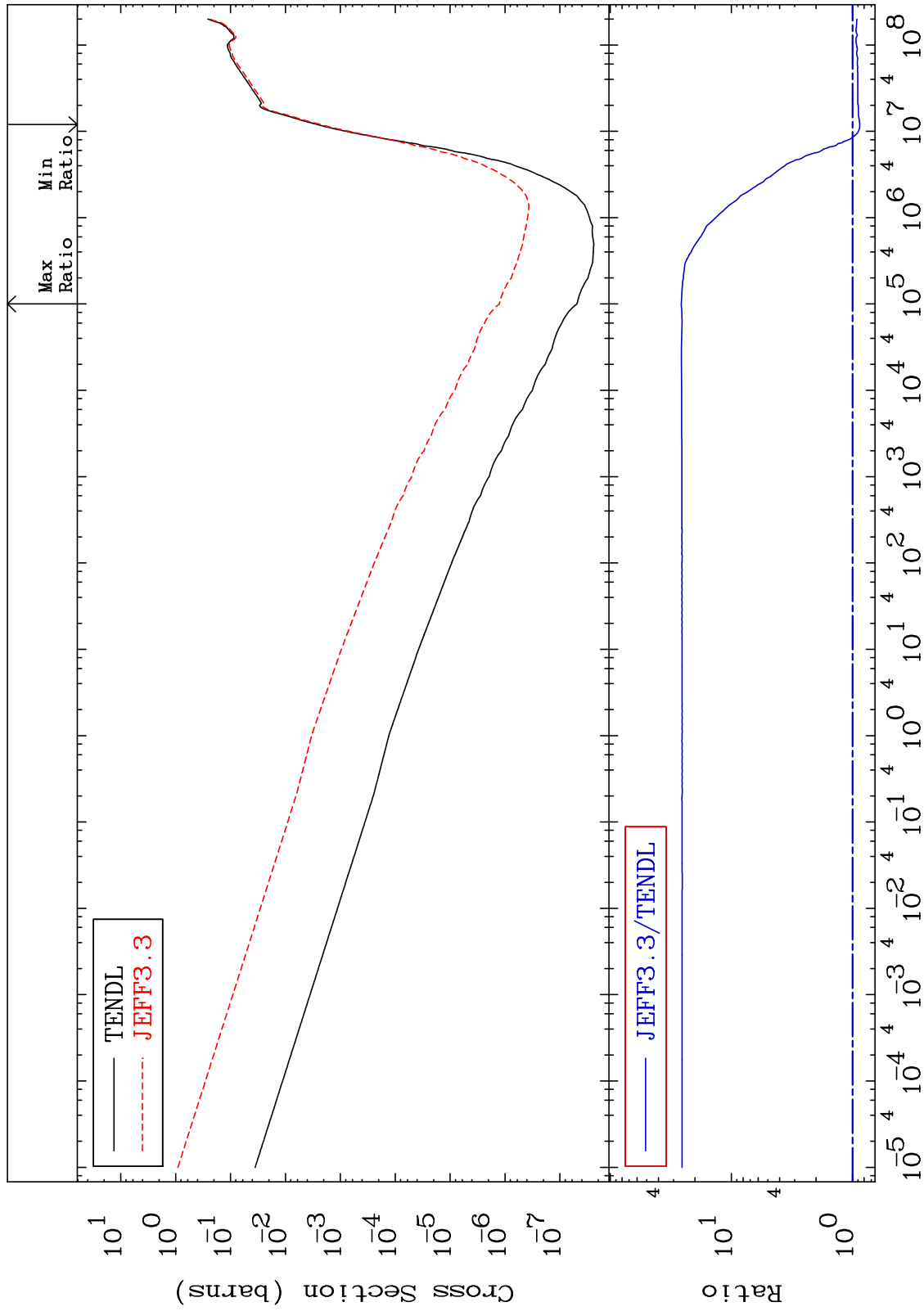


67 62-Sm-151 Incident Energy (eV)

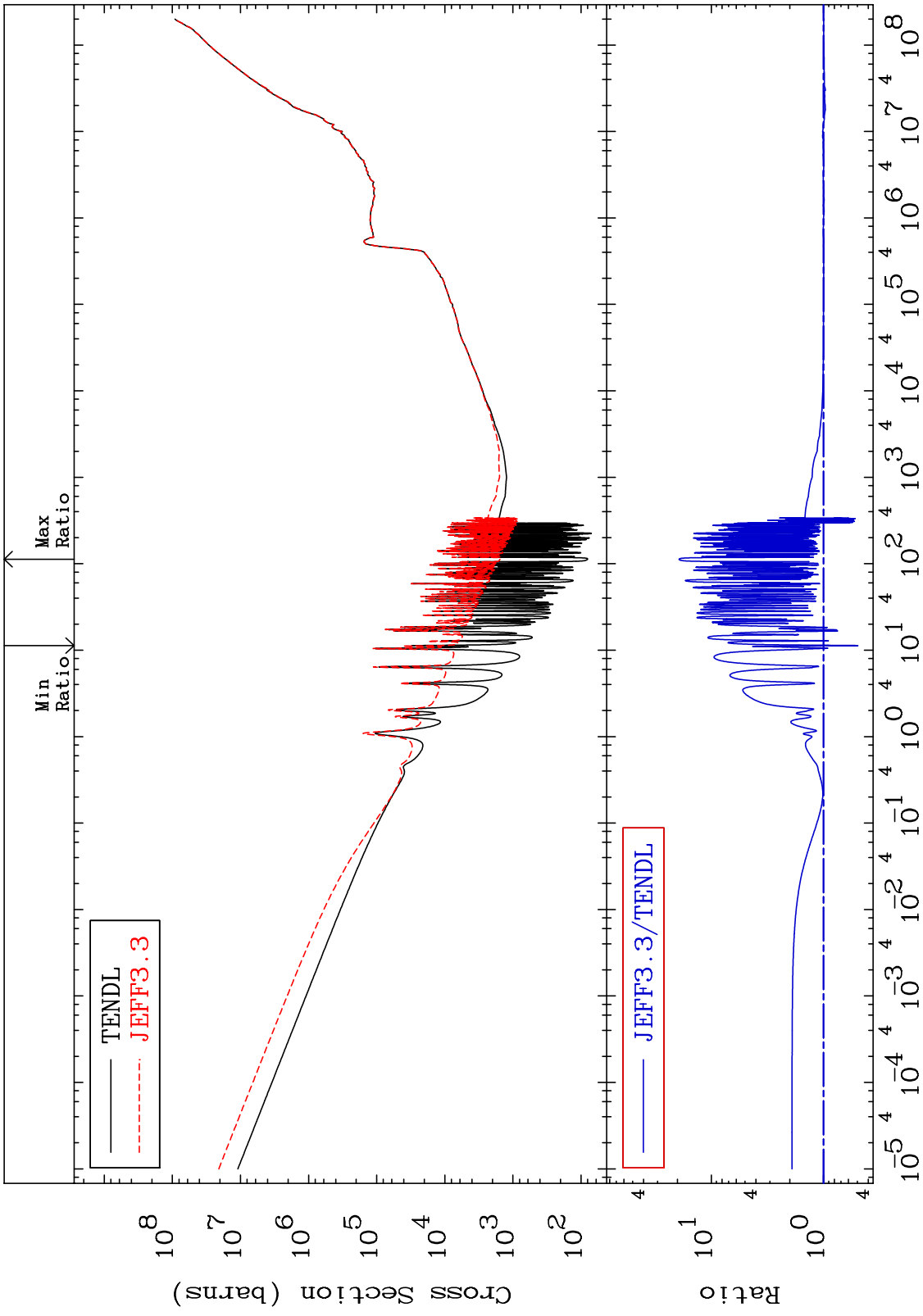
MAT 6246

He-4 Production
Cross Section

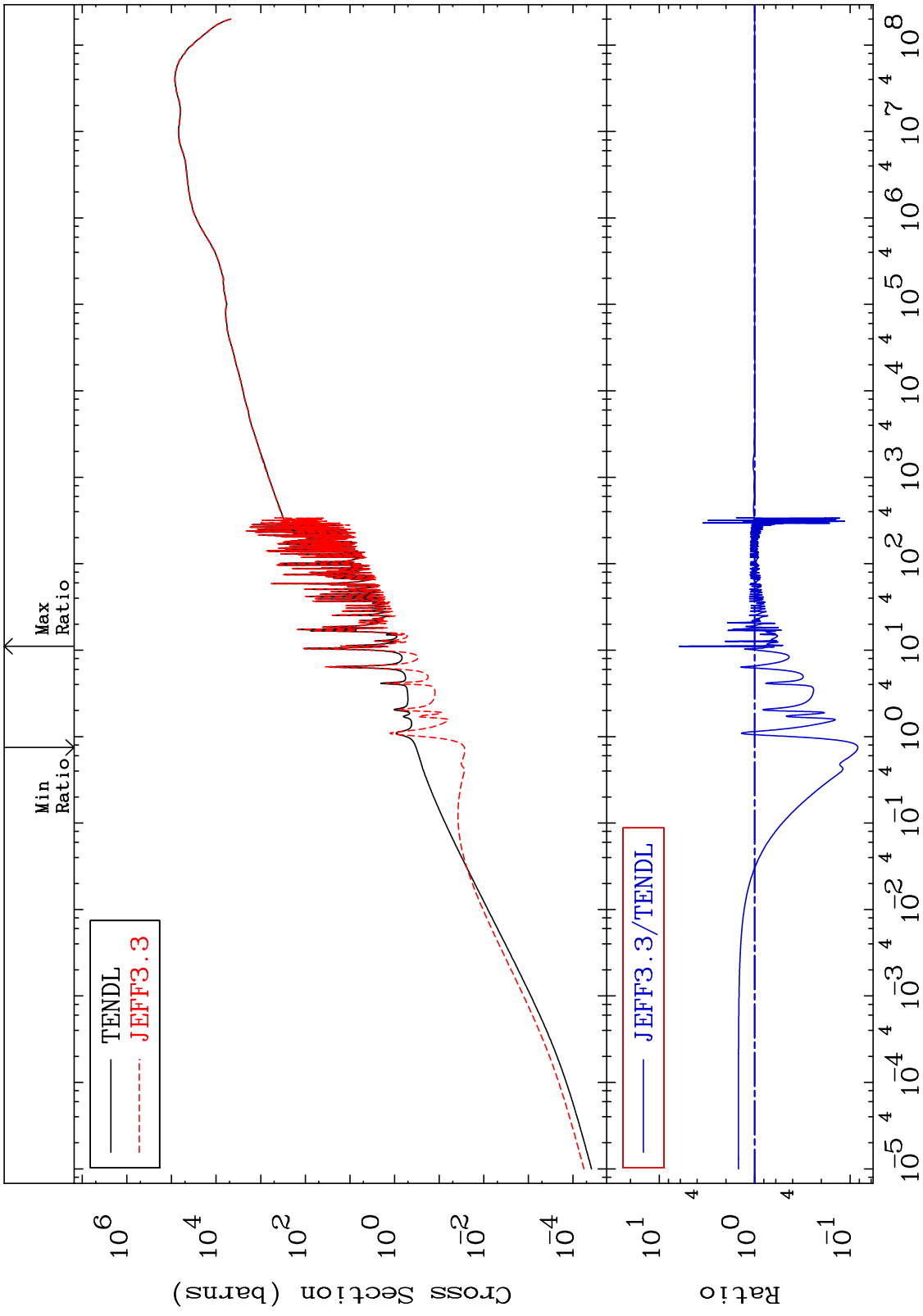
62-Sm-151
-12.97 To 2493. %



MAT 6246 Kerma total (eV-barns) 62-Sm-151
 Cross Section -50.46 To 1834. %

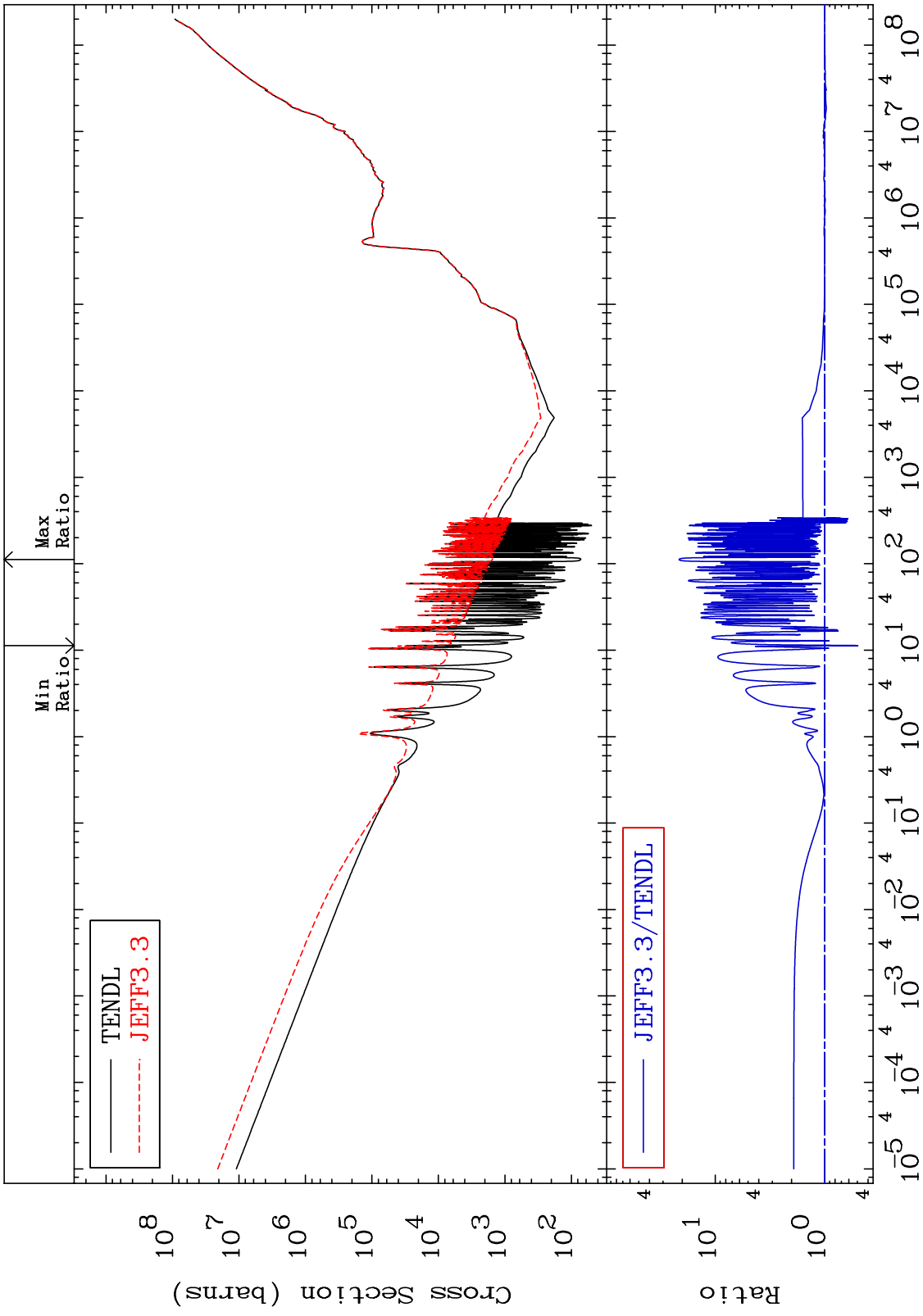


MAT 6246 62-Sm-151 -91.72 To 519.4 % Kerma elastic Cross Section



70 62-Sm-151

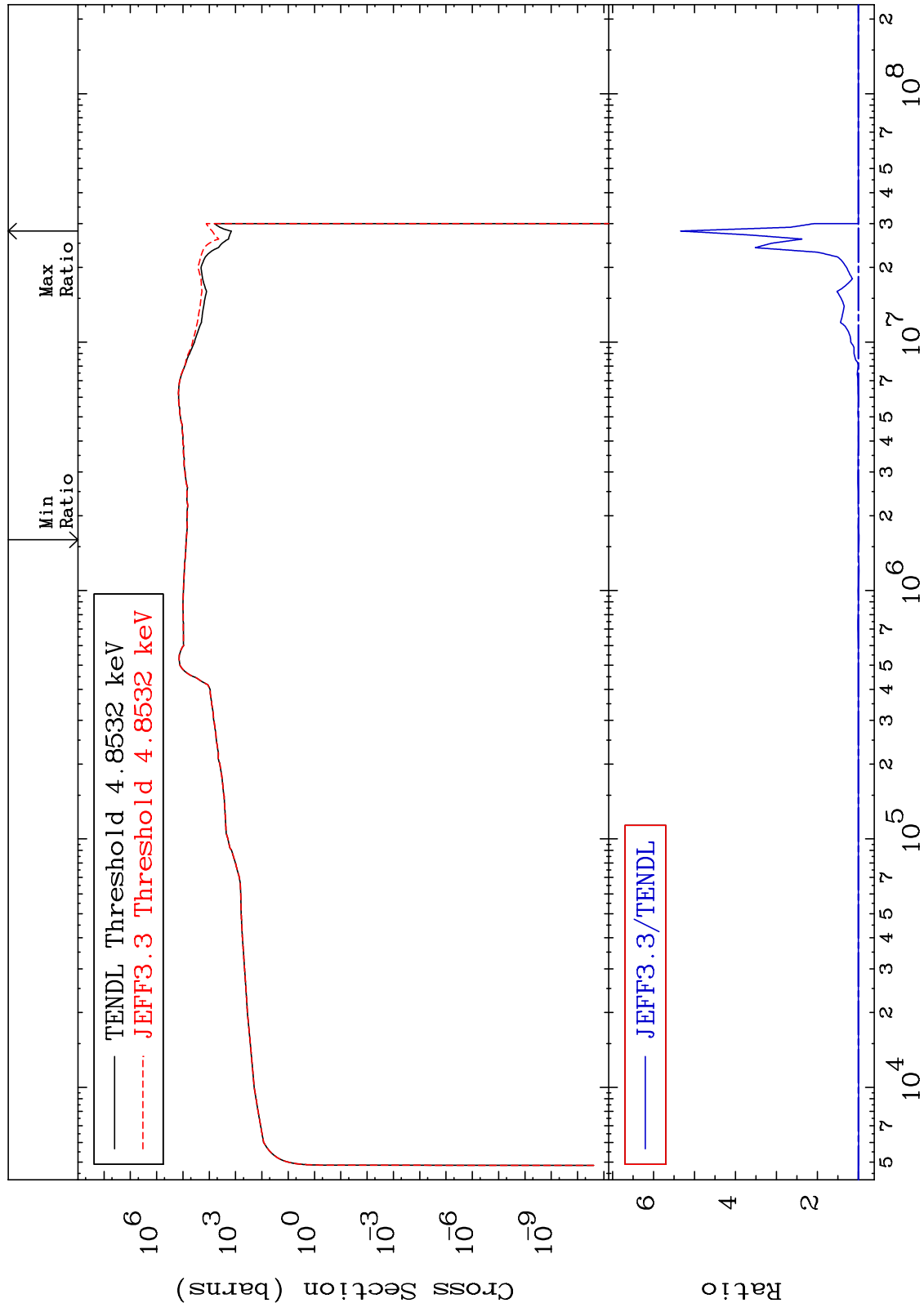
MAT 6246 Kerma non-elastic (all but mt2) 62-Sm-151
 Cross Section -50.47 To 2041. %



MAT 6246

Kerma inelastic (mt51-91)
Cross Section

62-Sm-151
-1.713 To 433.3 %



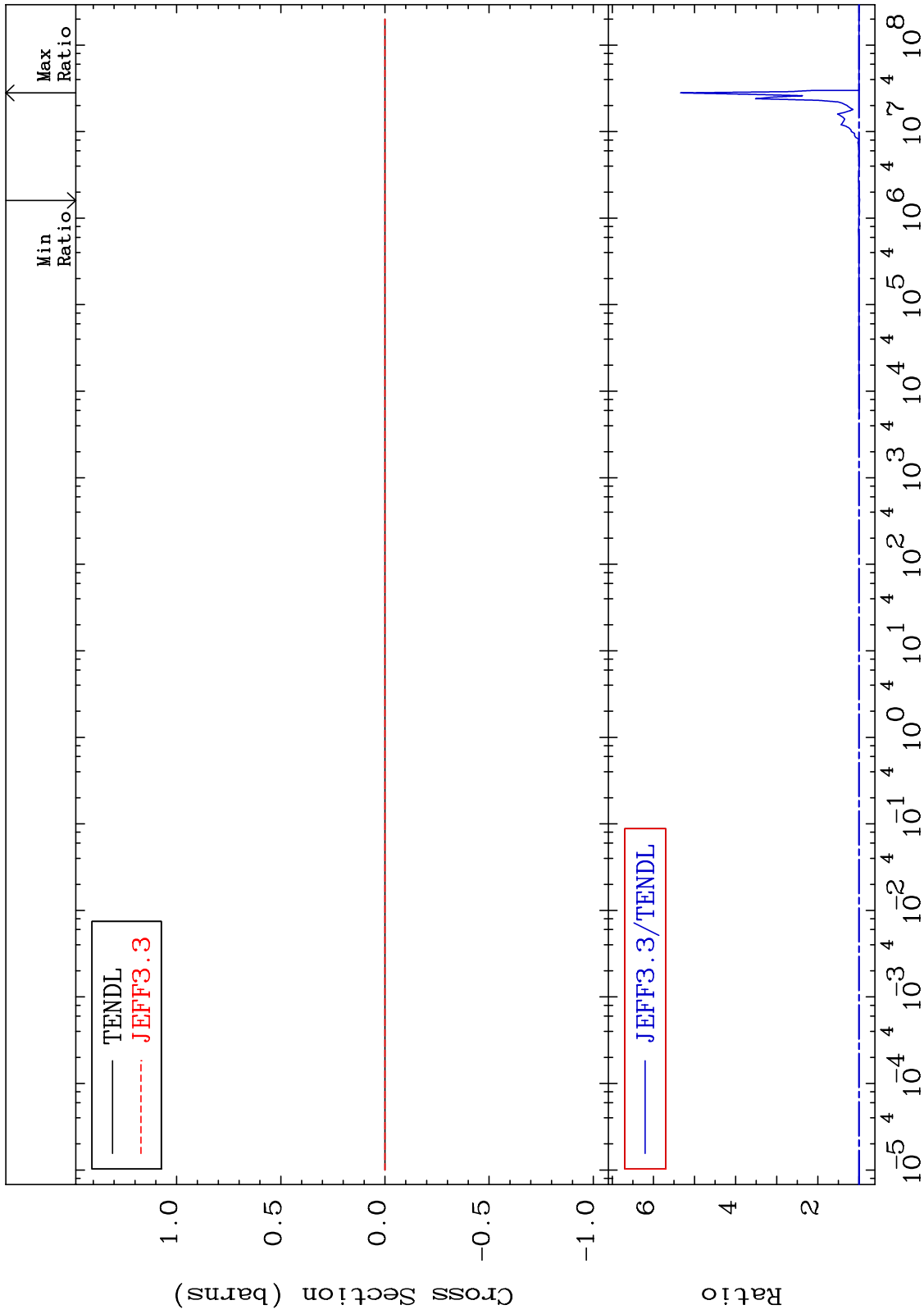
72

62-Sm-151

MAT 6246

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

62-Sm-151
-1.713 To 433.3 %

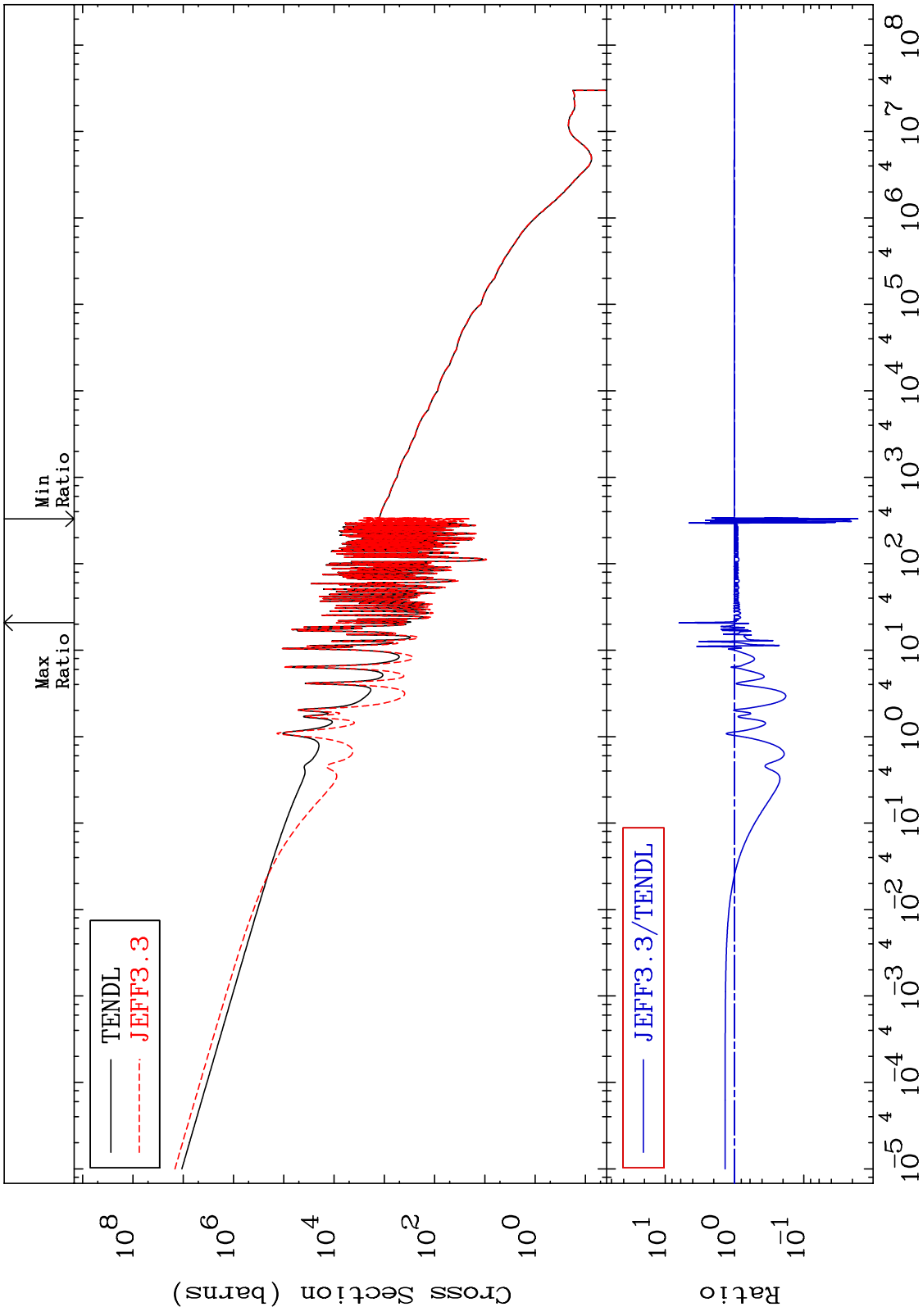


73

Incident Energy (eV)

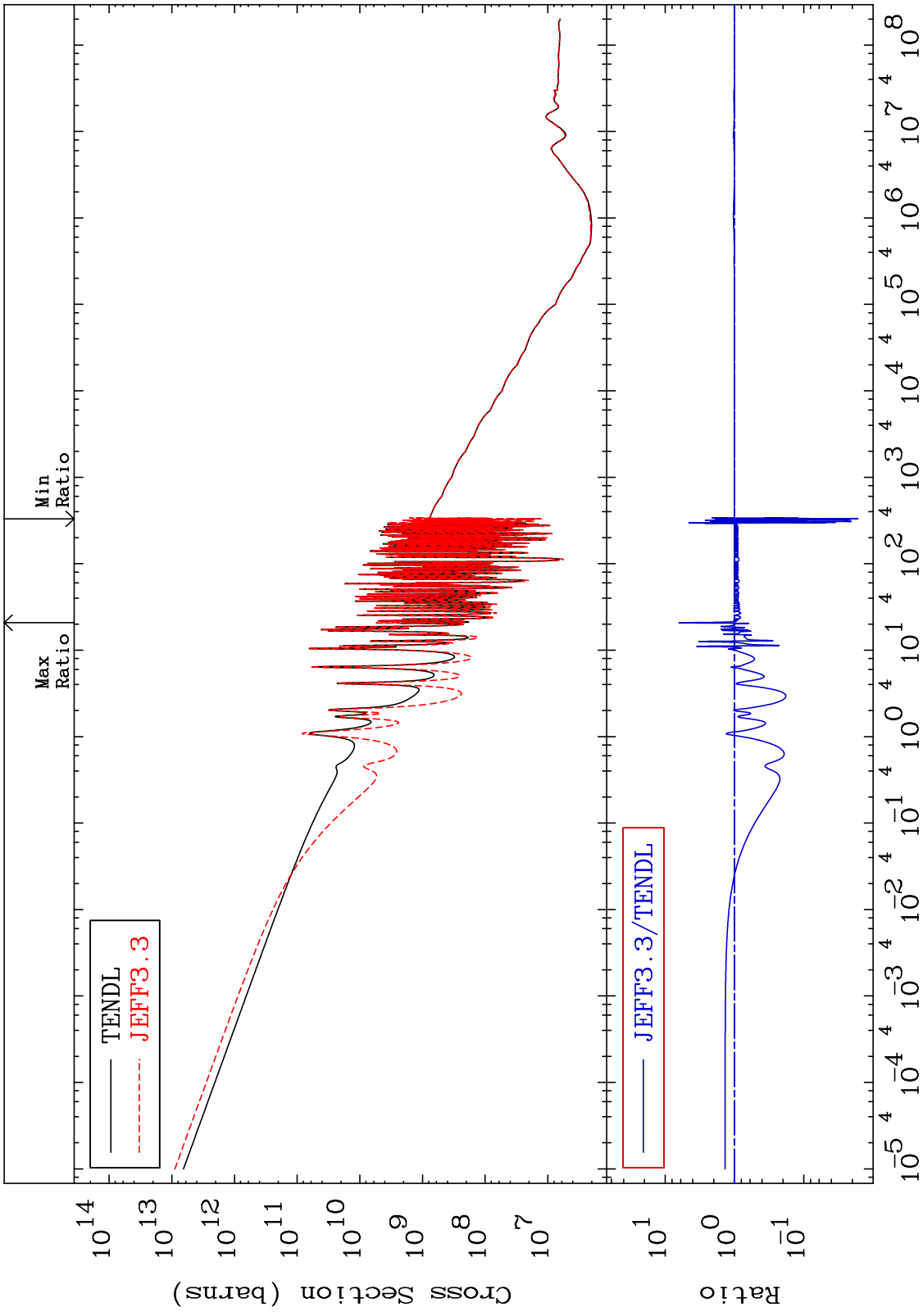
62-Sm-151

MAT 6246 62-Sm-151
 Kerma capture (mt102) -98.34 To 532.8 %
 Cross Section



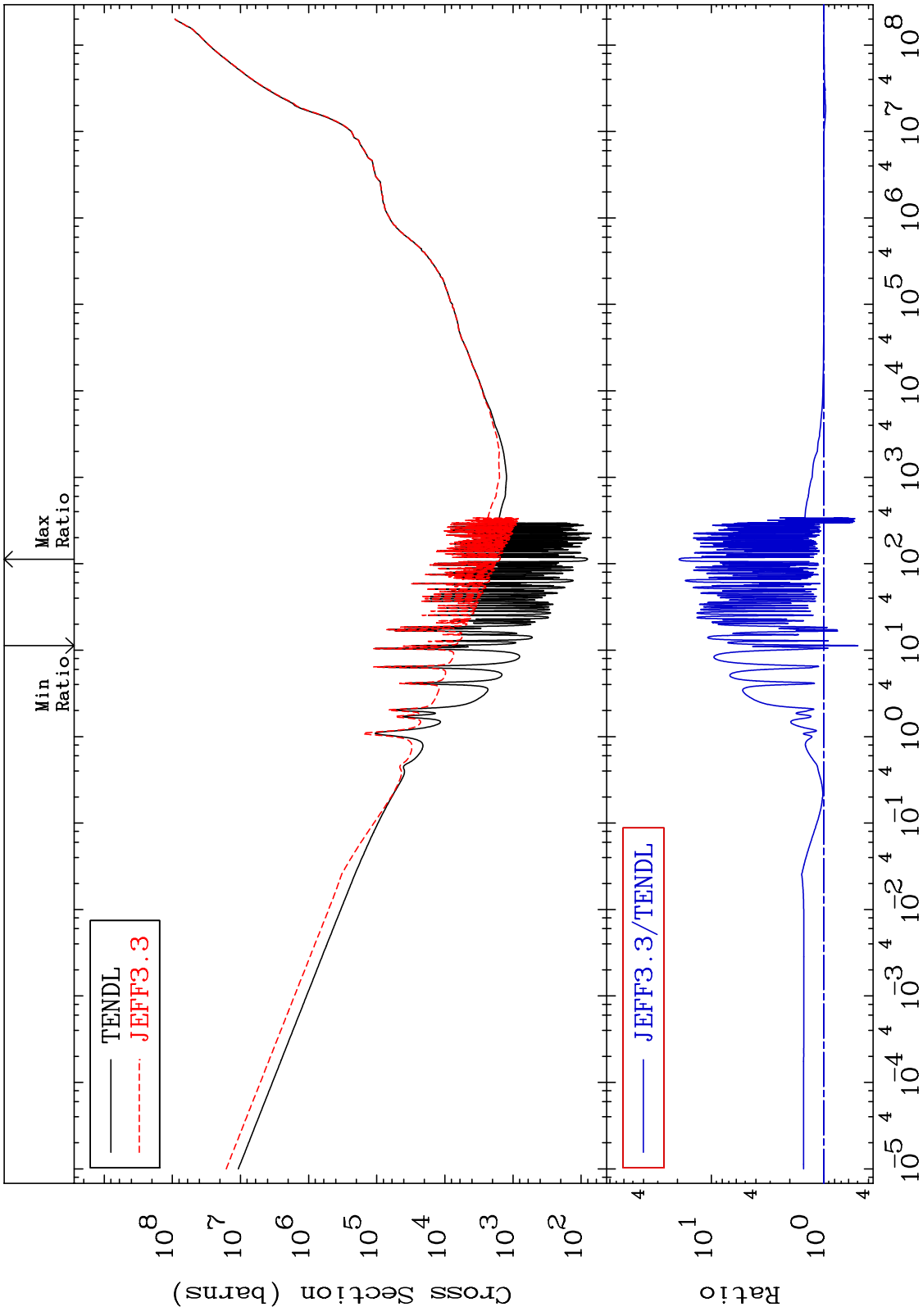
74 62-Sm-151

MAT 6246 62-Sm-151 -98.34 To 532.8 %
Total photon (eV-barns)
Cross Section

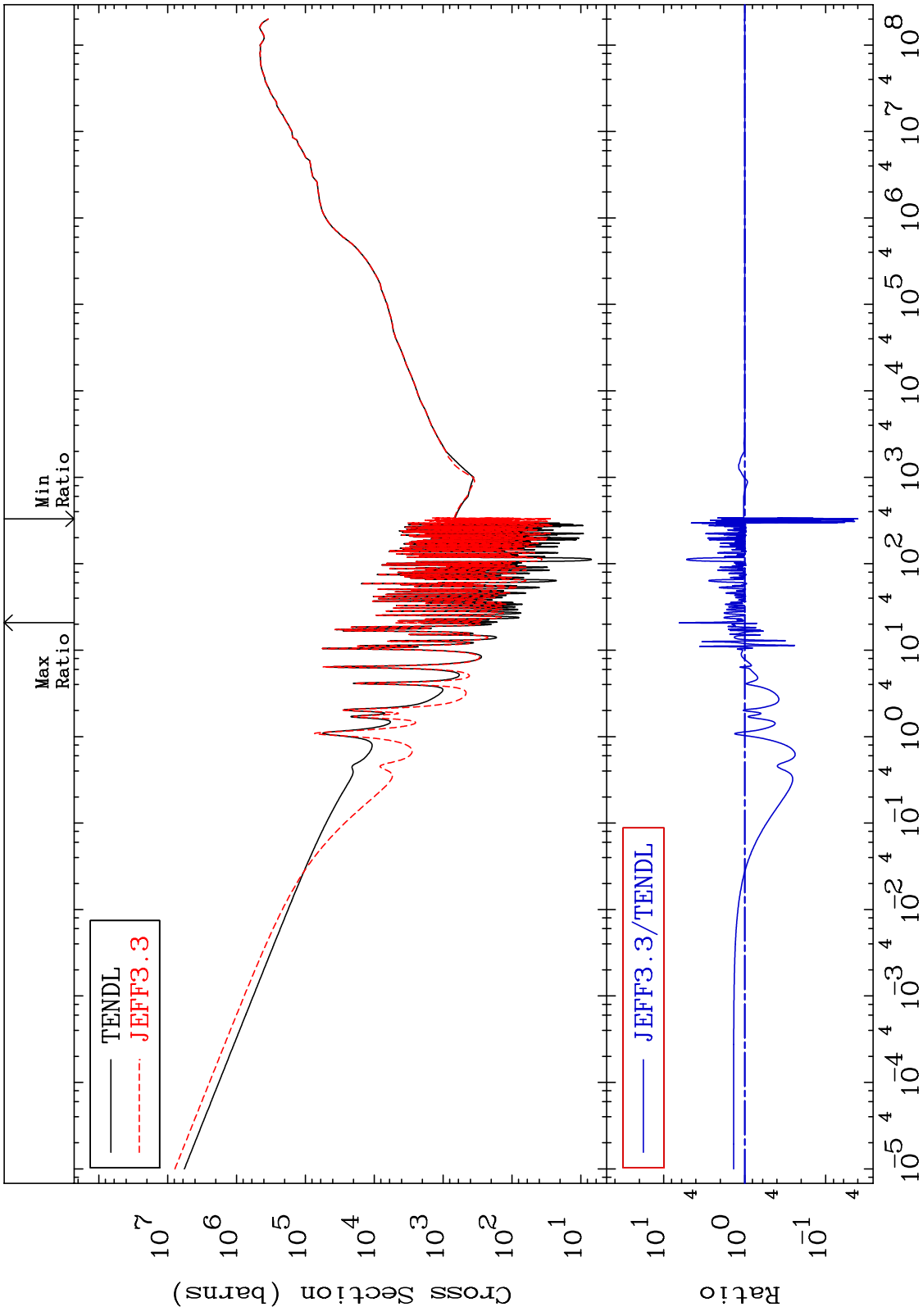


75 62-Sm-151

MAT 6246 Total kinematic kerma (high limit) 62-Sm-151
Cross Section -50.33 To 1836. %



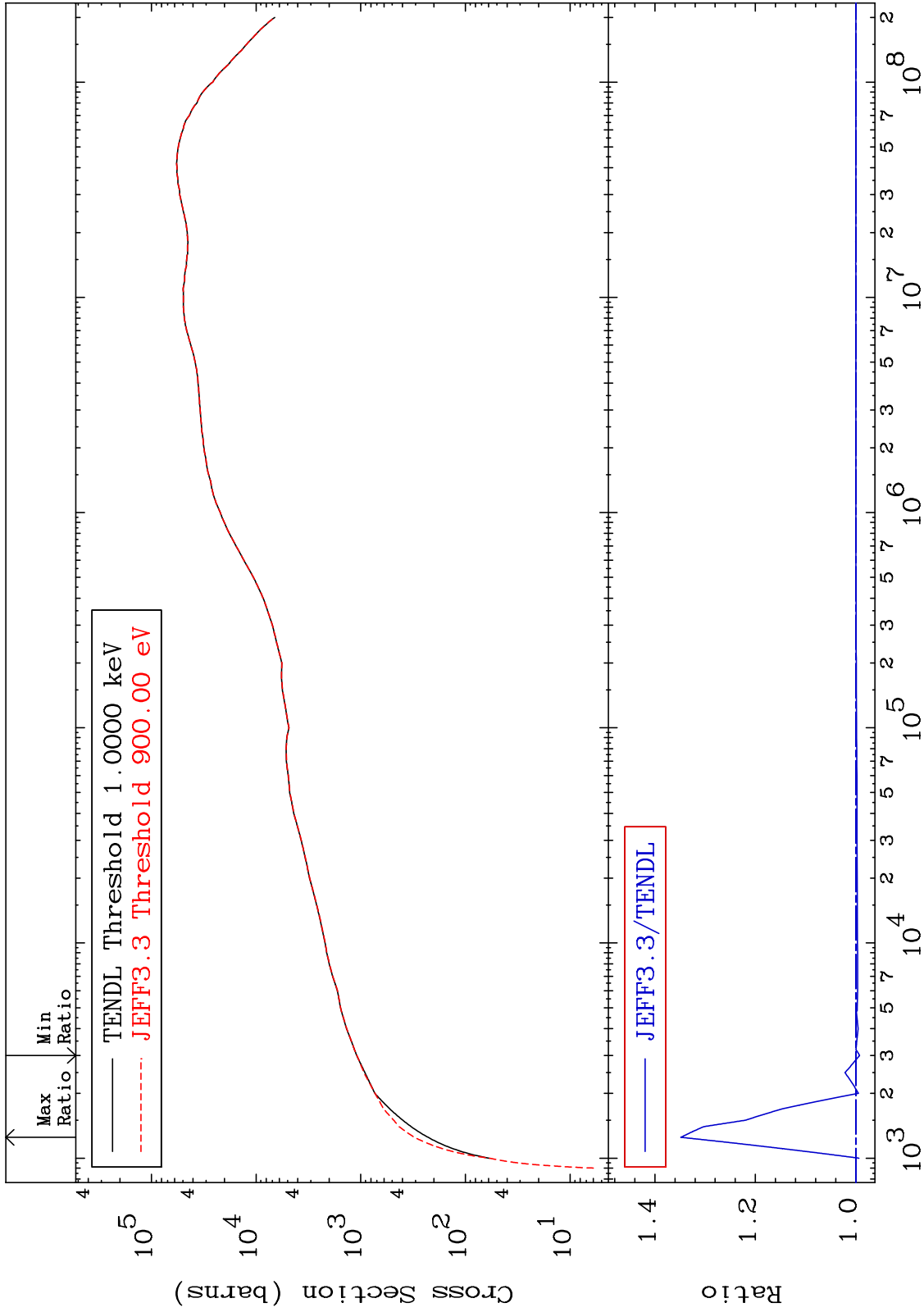
MAT 6246 Dpa total (eV-barns) 62-Sm-151
 Cross Section -95.99 To 546.3 %



MAT 6246

Dpa elastic (mt2)
Cross Section

62-Sm-151
-0.758 To 34.84 %

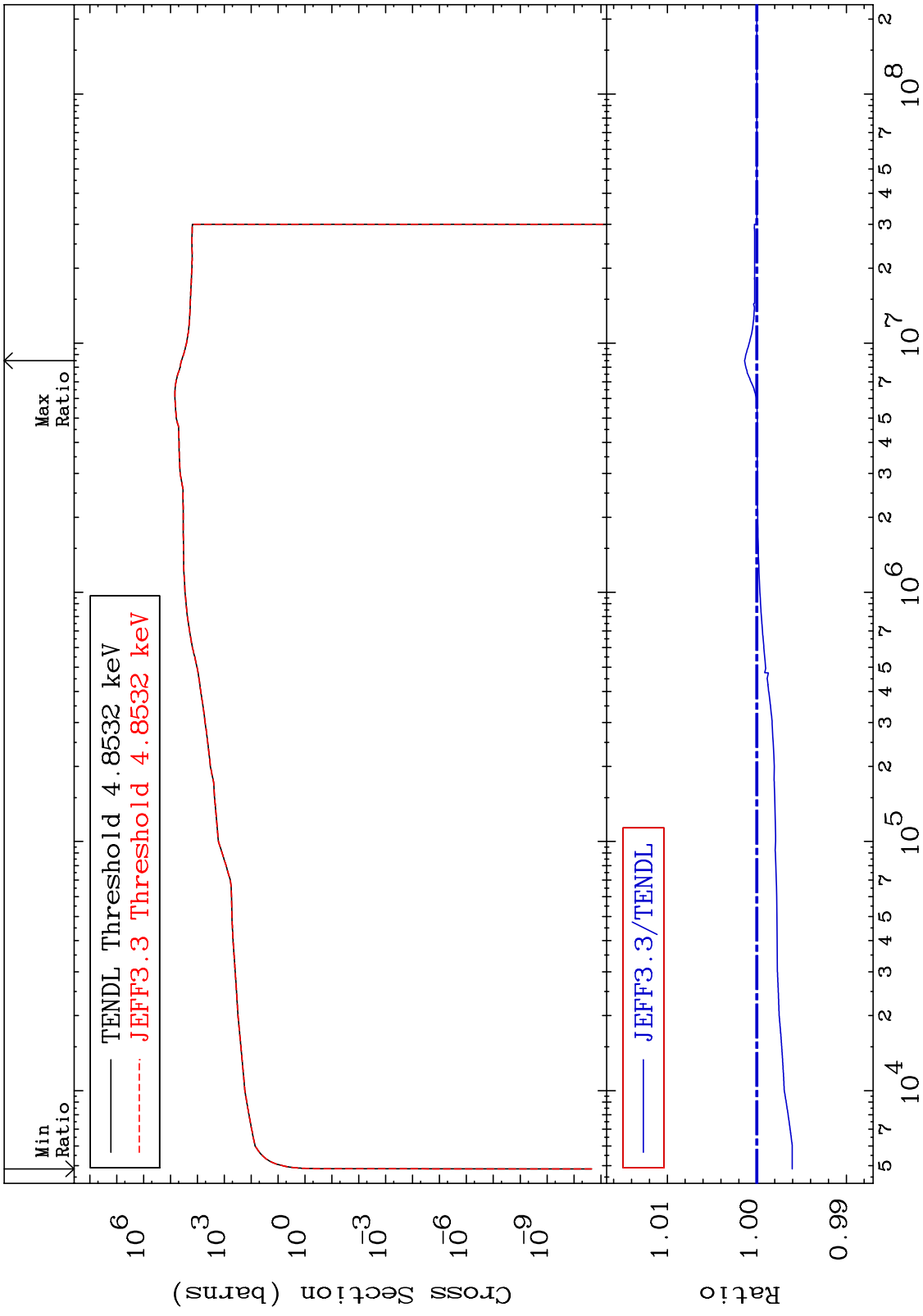


78

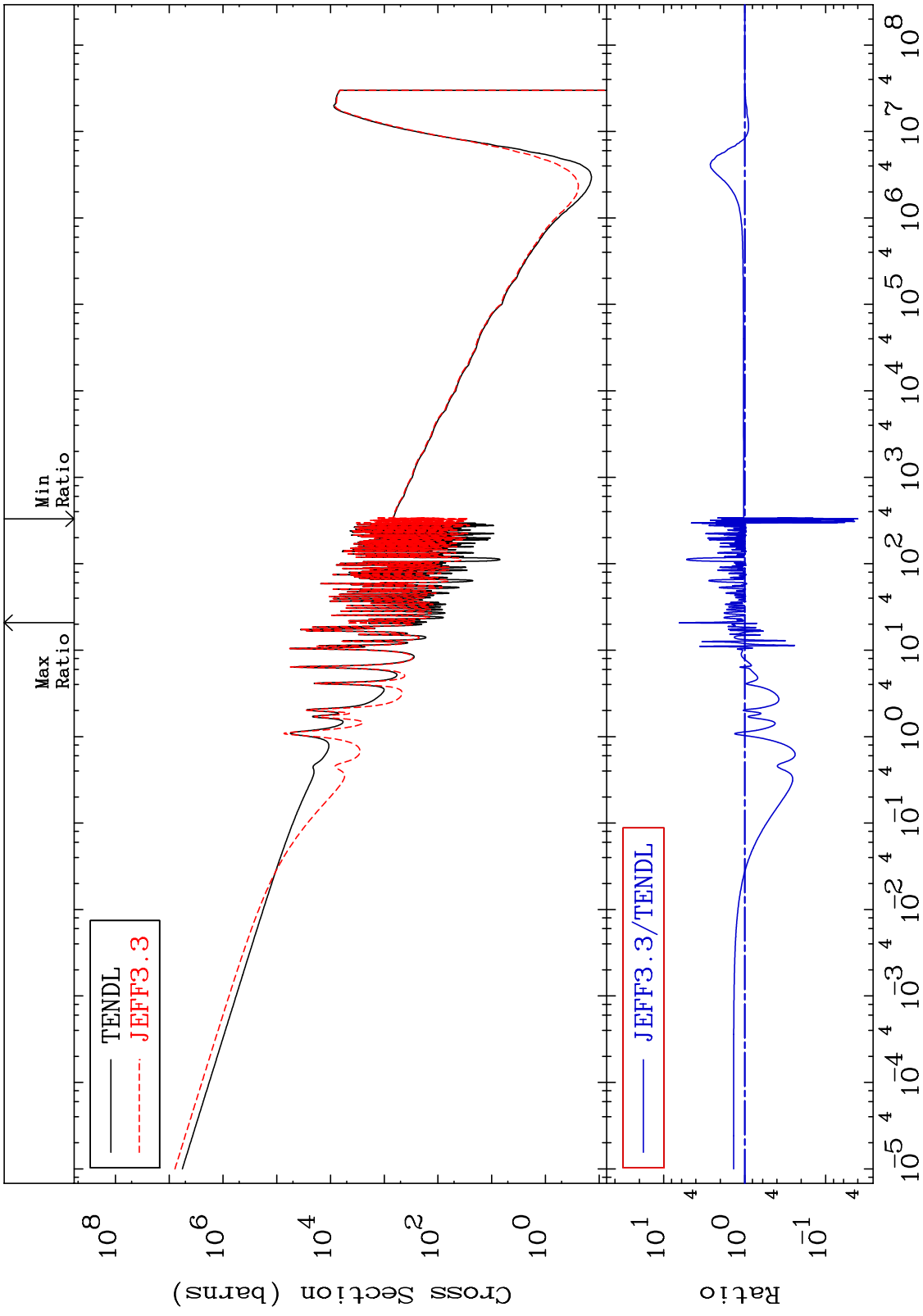
Incident Energy (eV)

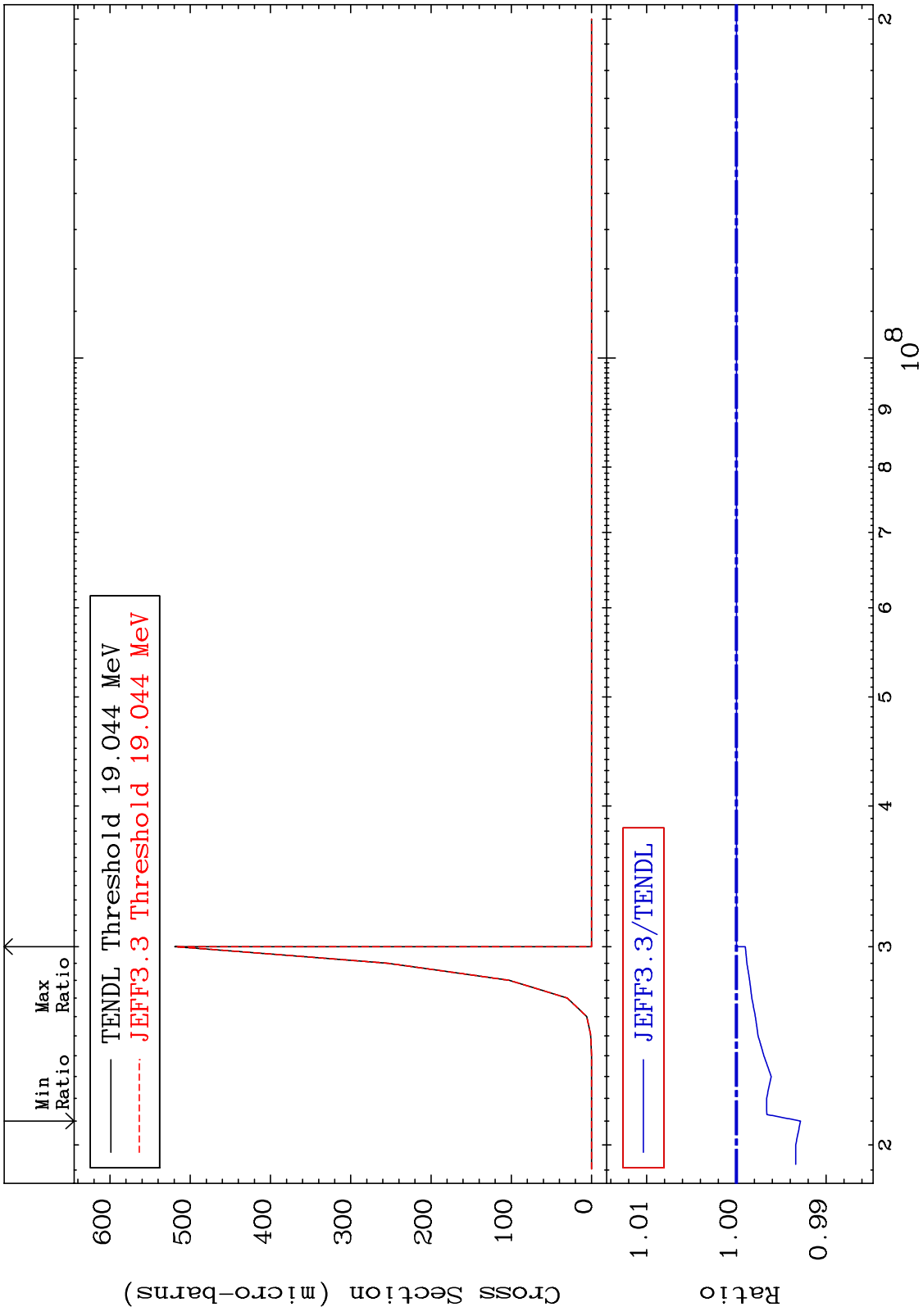
62-Sm-151

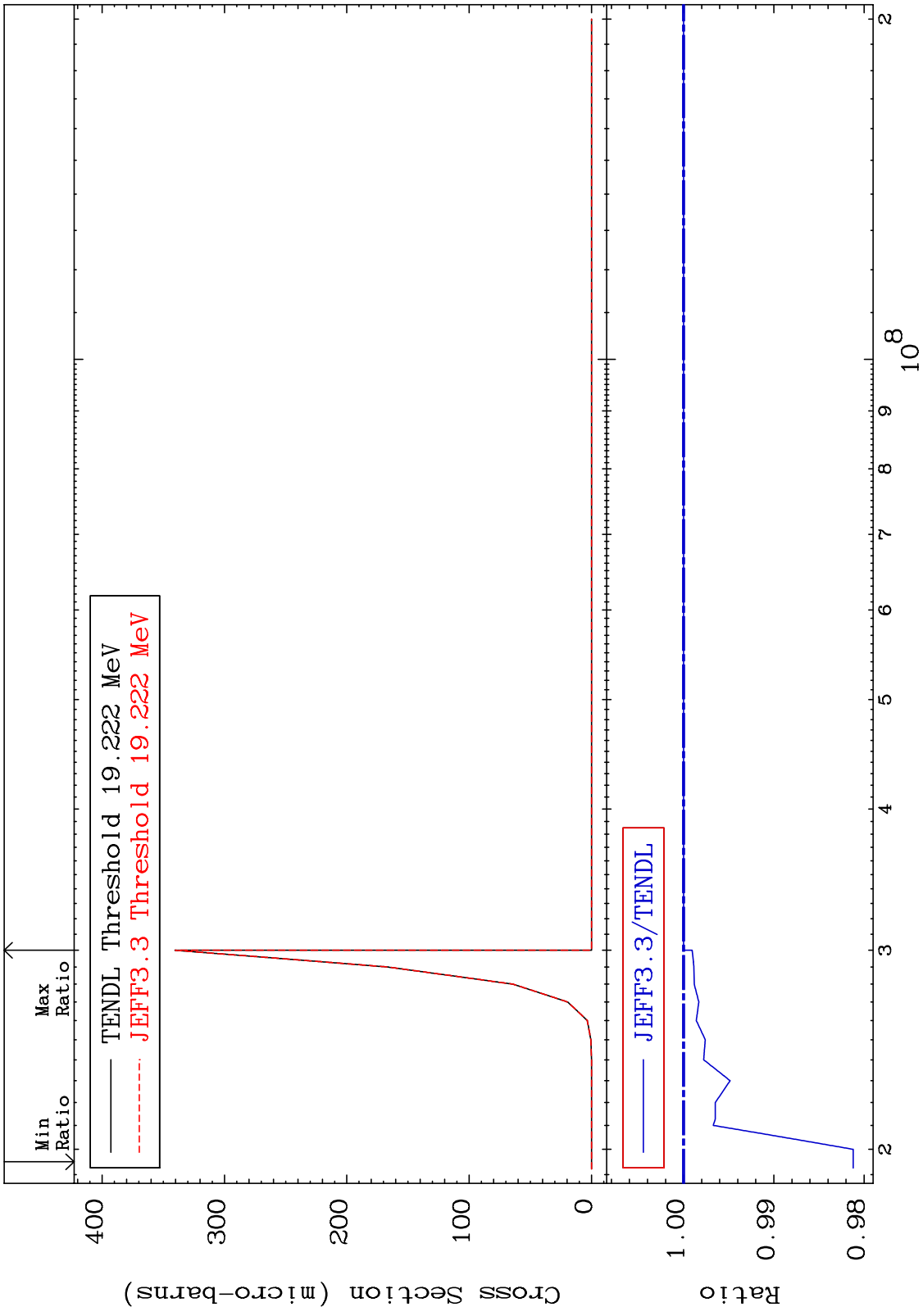
MAT 6246 Dpa inelastic (mt51-91) 62-Sm-151
 Cross Section -0.396 To 0.136 %



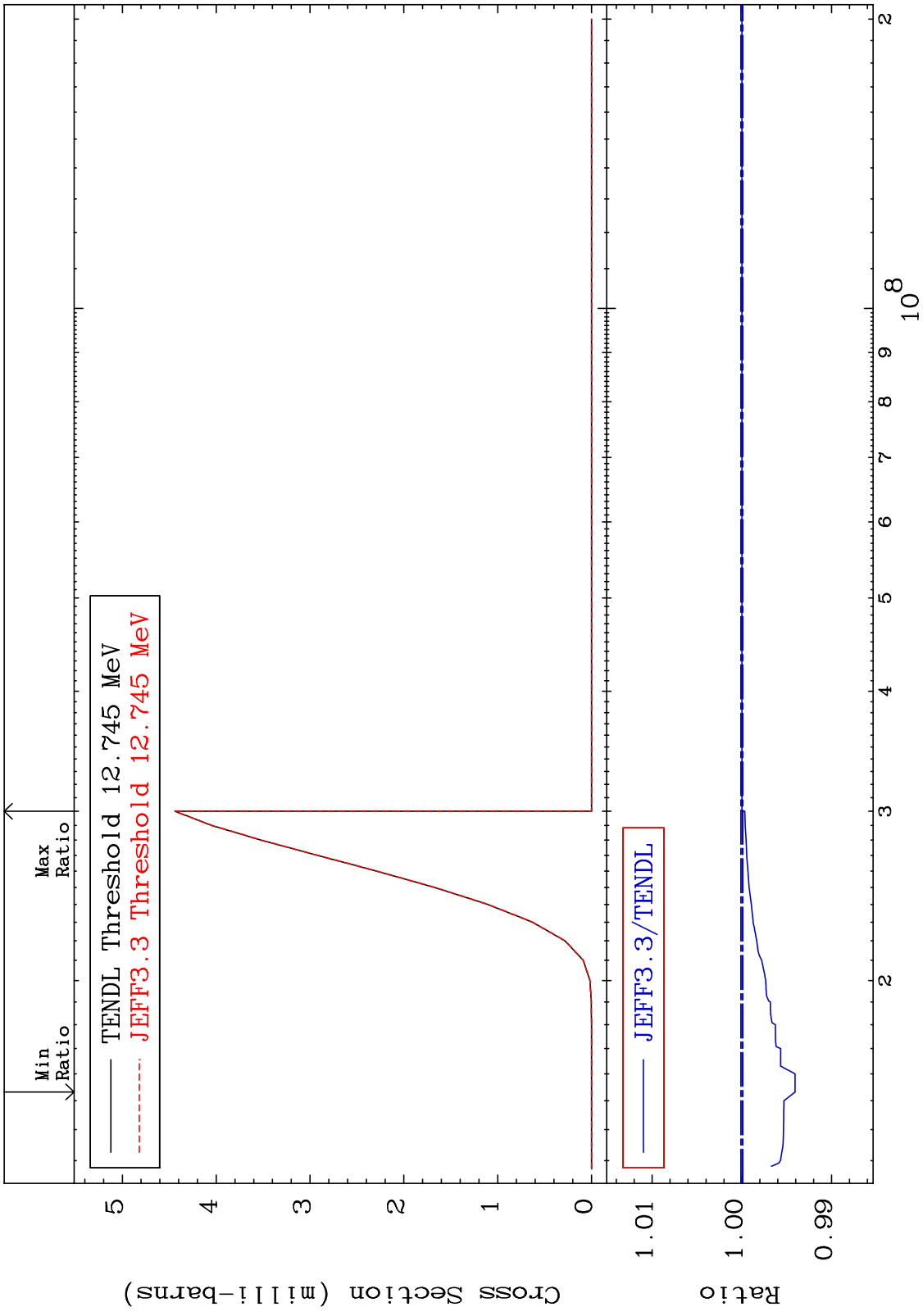
MAT 6246 Dpa disappearance (mt102 -120) 62-Sm-151
 Cross Section -95.99 To 546.3 %



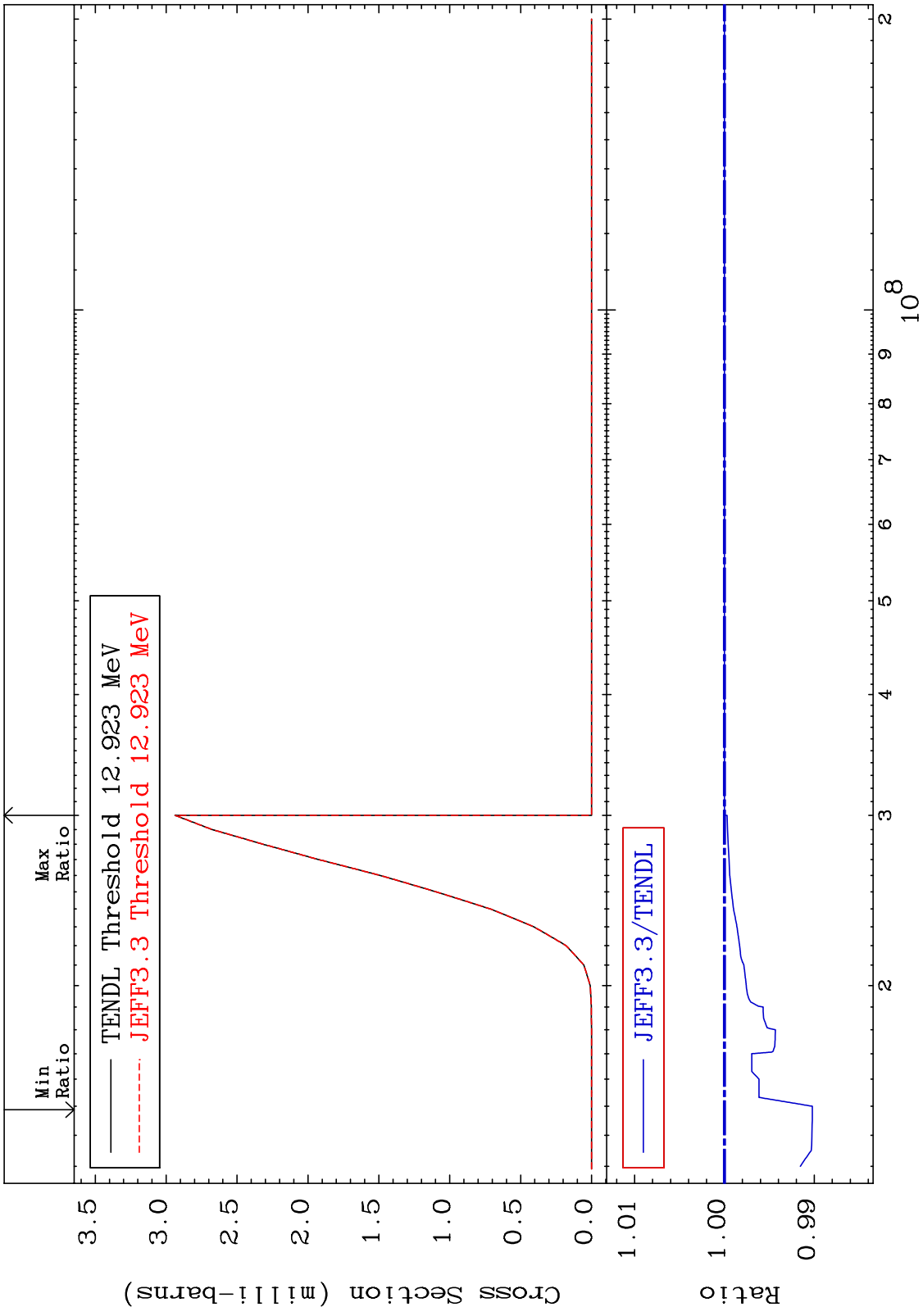




MAT 6246 (n, n') t:61-Pm-148g 62-Sm-151
 Radionuclide Production Cross Section -0.593 To 0.000 %



MAT 6246 (n,n') t:61-Pm-148m3 62-Sm-151
 Radionuclide Production Cross Section -0.979 To 0.000 %

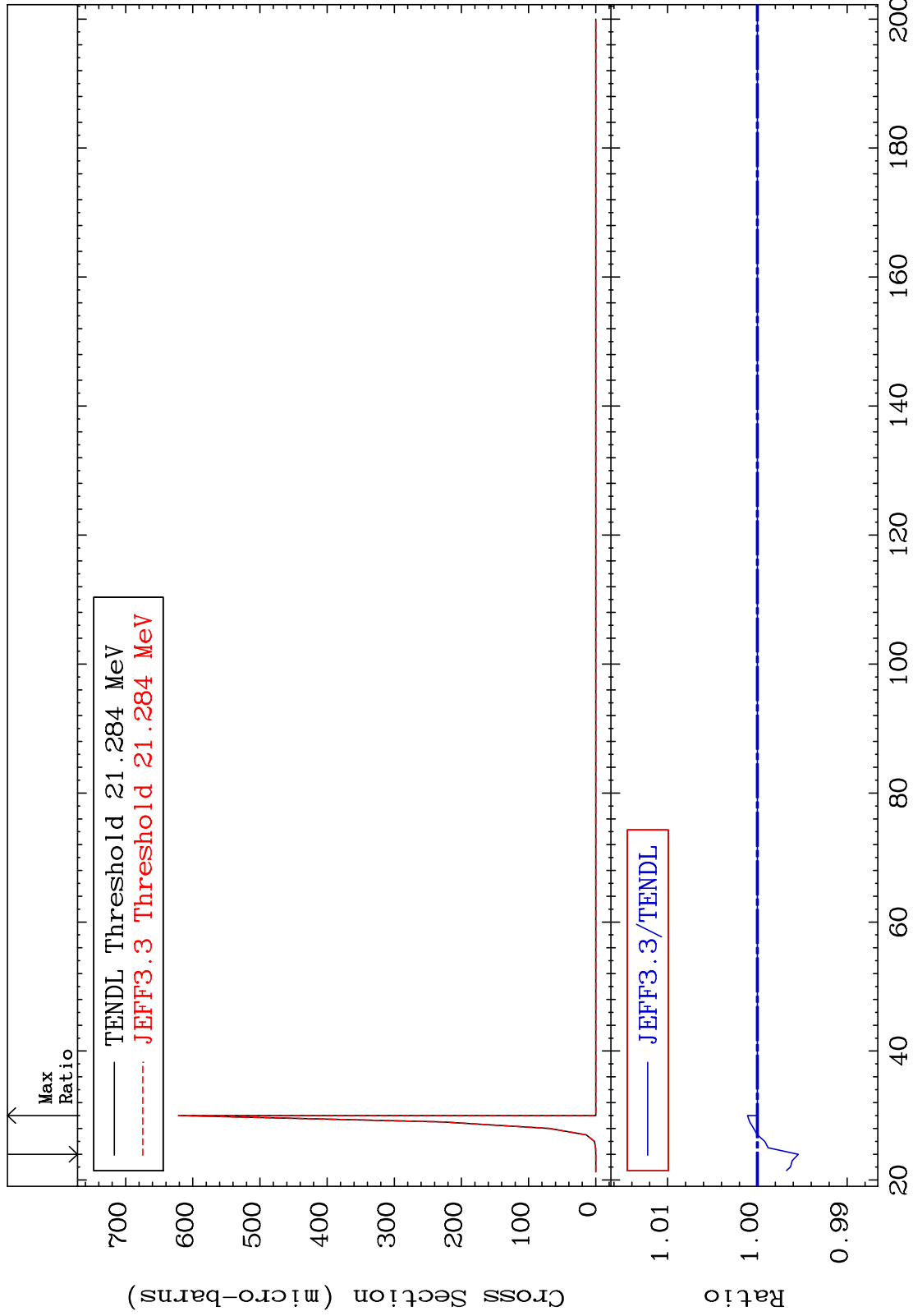


MAT 6246

(n,3n) p:61-Pm-148g

62-Sm-151

Radionuclide Production Cross Section -0.457 To 0.109 %



85

Incident Energy (MeV)

62-Sm-151

MAT 6246

(n,3n) p:61-Pm-148m3

62-Sm-151

Radionuclide Production Cross Section -0.531 To 0.115 %

