

Program Complot
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

U.S.A.

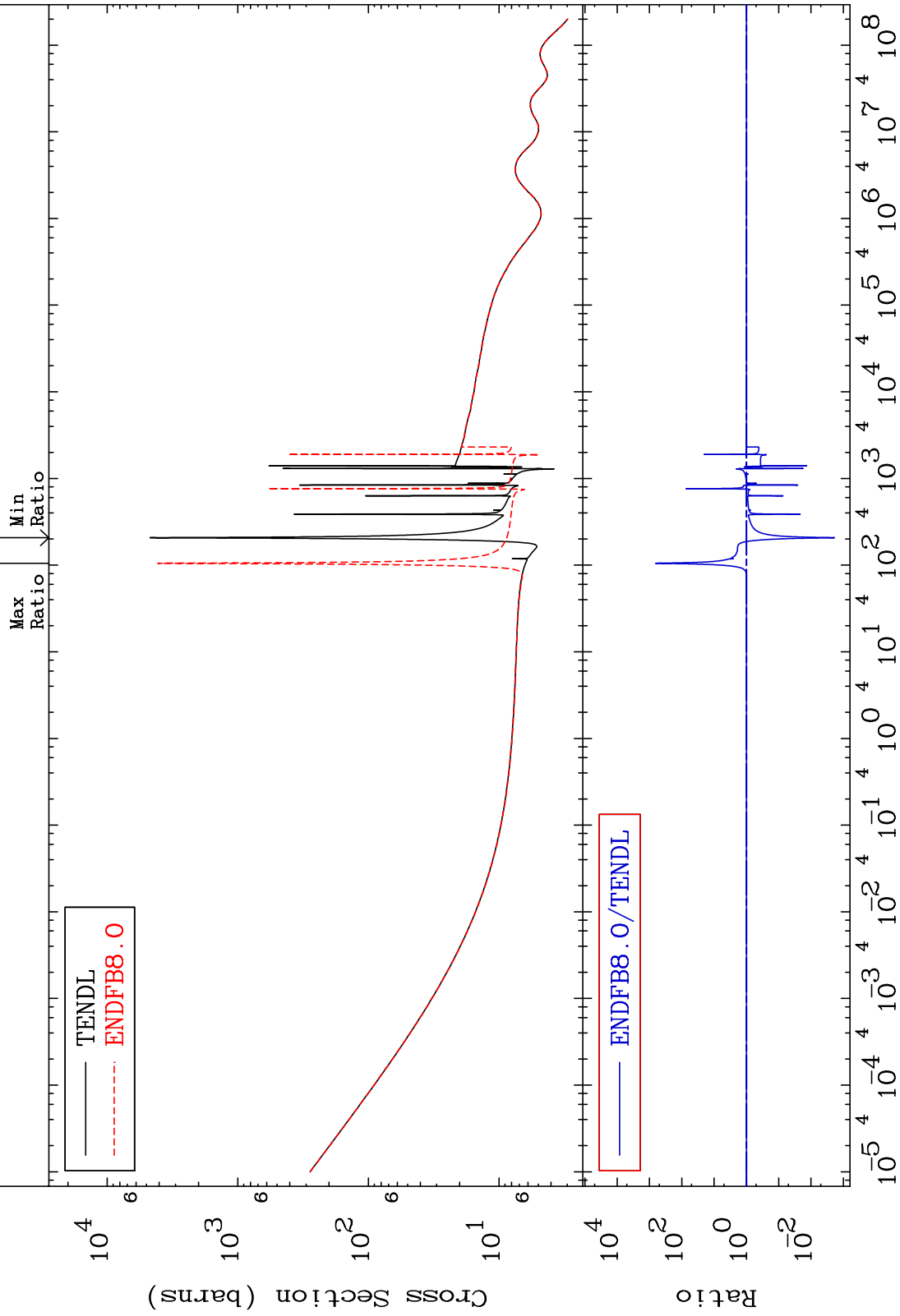
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 8228 82-Pb-205 -99.81 To 9999. %

Total Cross Section



82-Pb-205

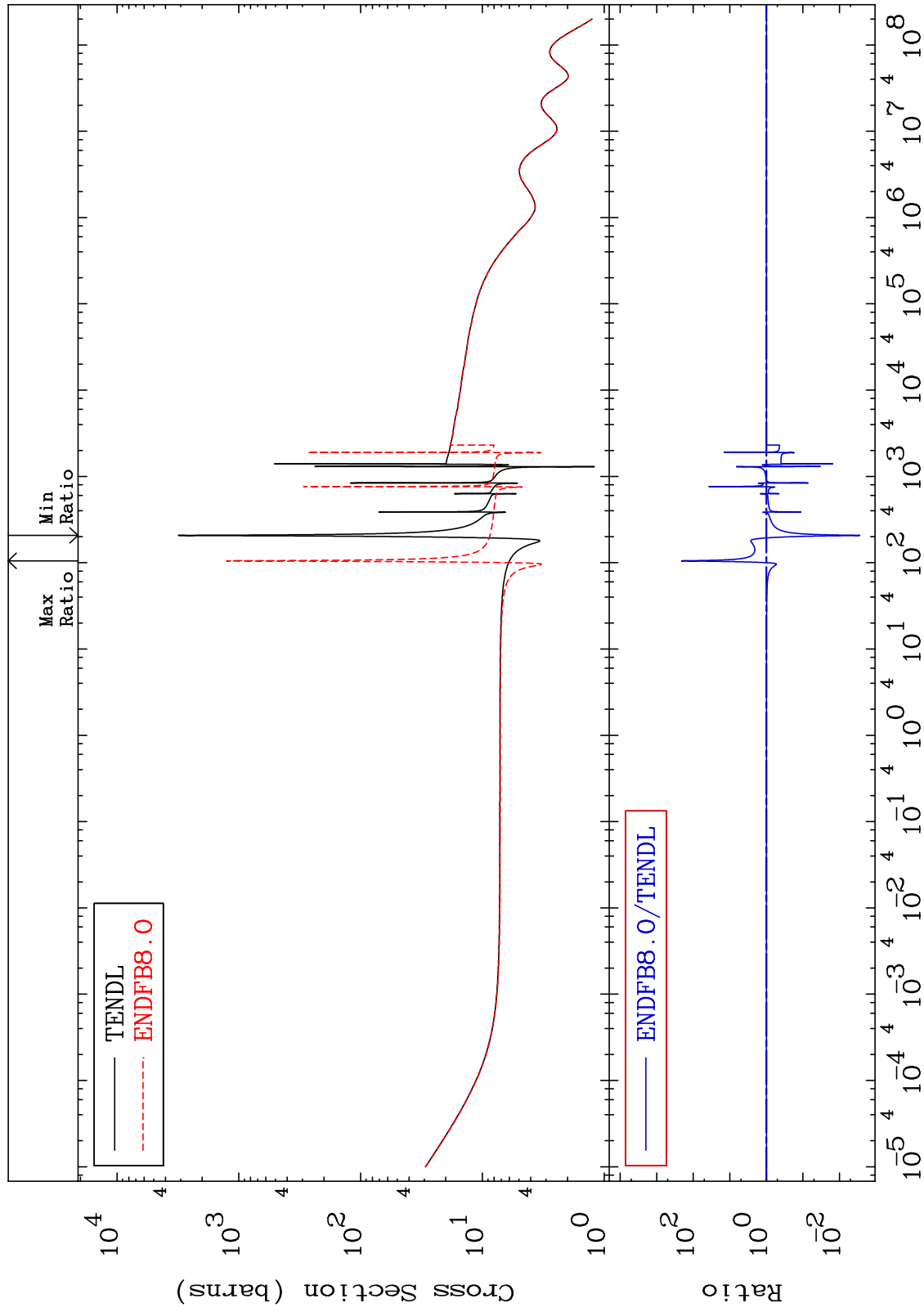
Incident Energy (eV)

1

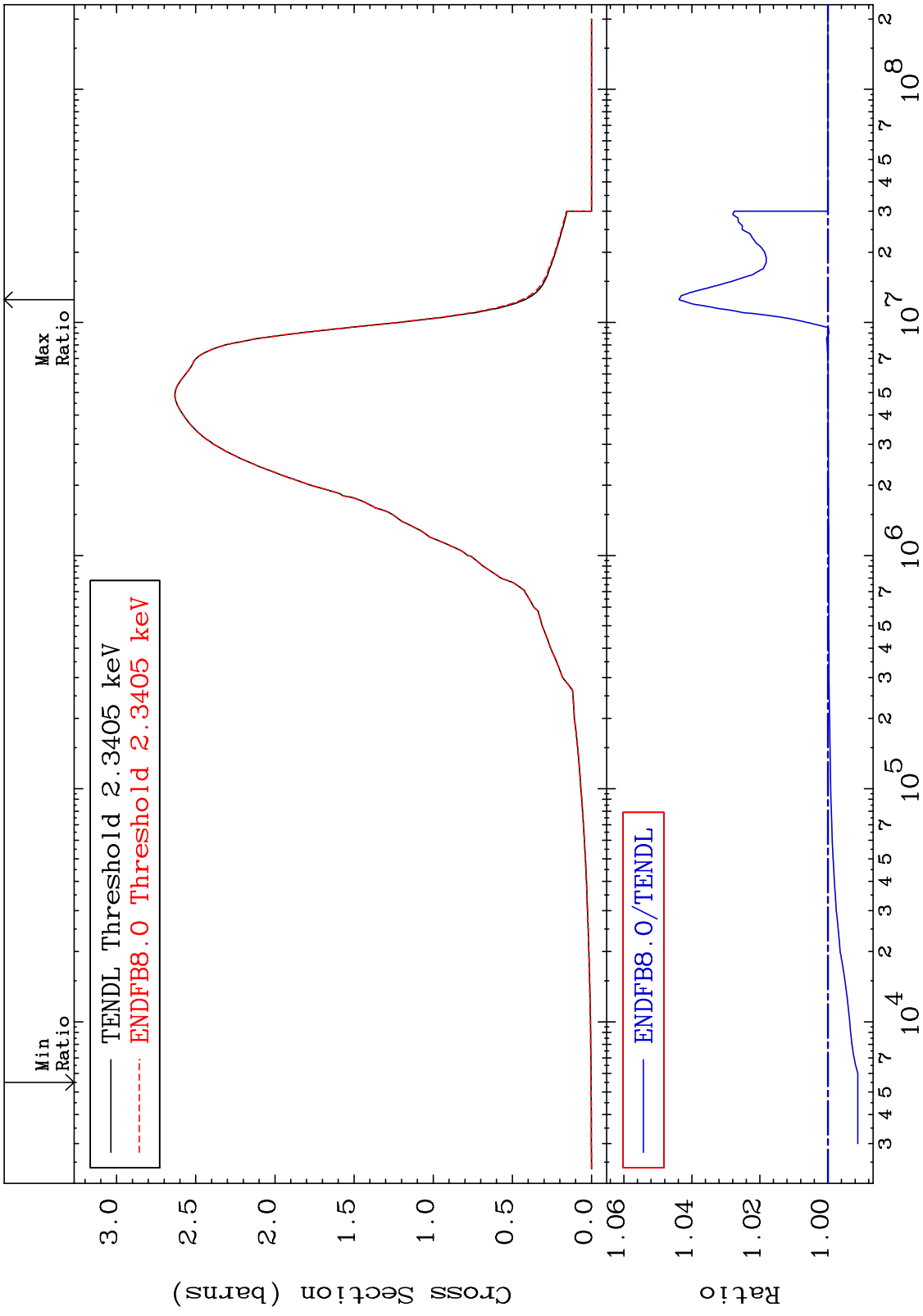
MAT 8228

Elastic
Cross Section

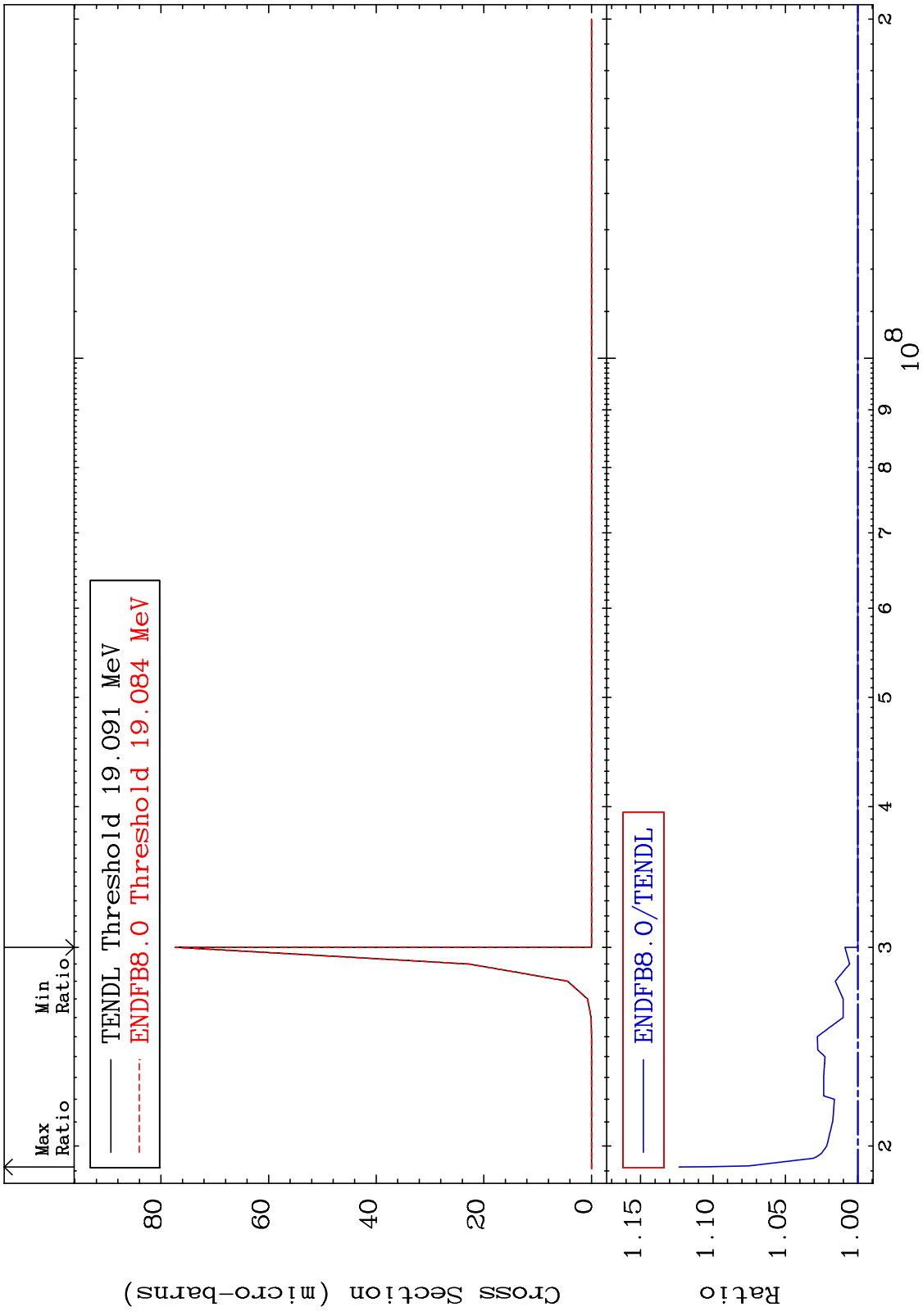
82-Pb-205
-99.72 To 9999. %



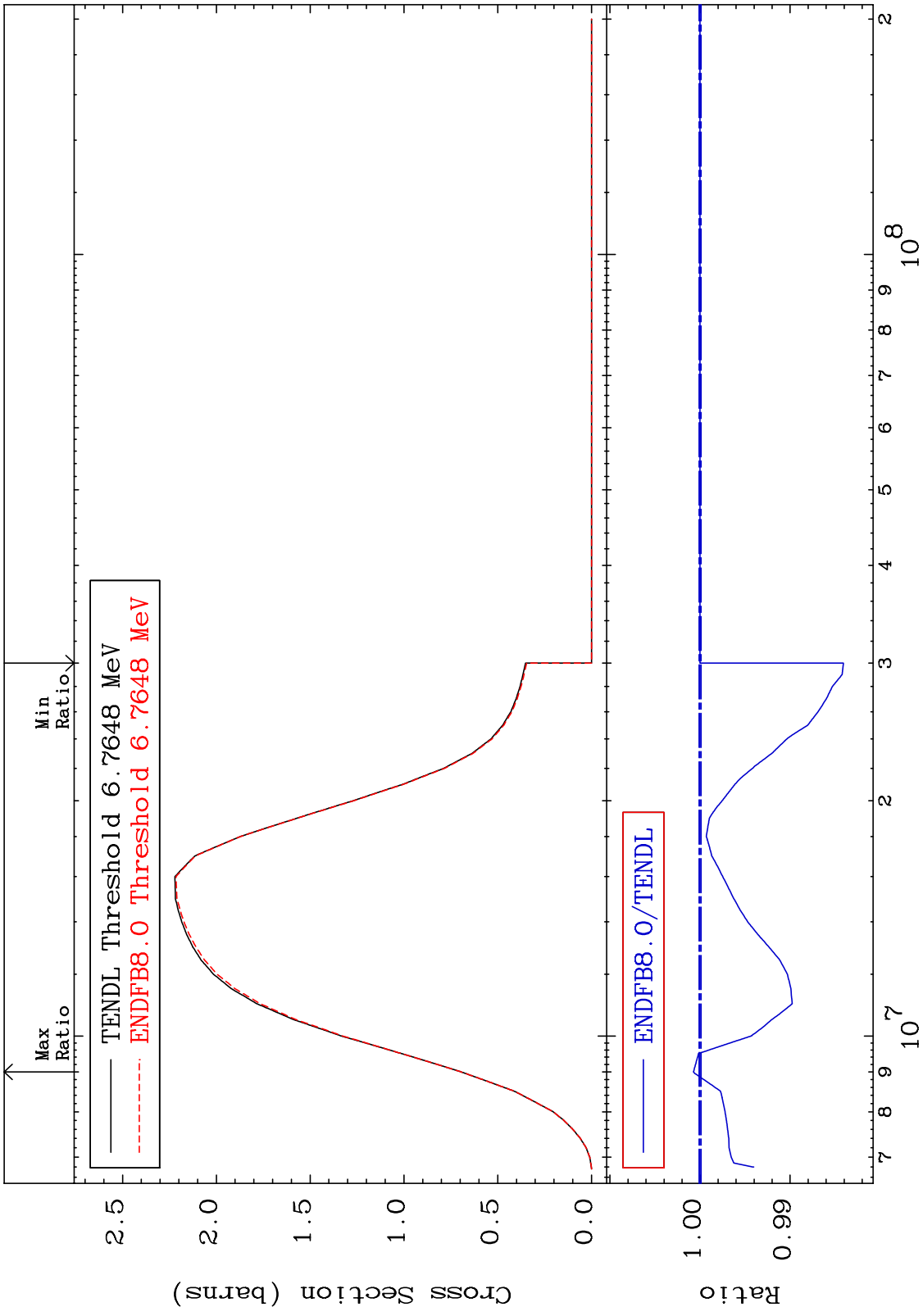
MAT 8228 Inelastic Cross Section 82-Pb-205 -0.882 To 4.377 %



MAT 8228 (n,2n) d 82-Pb-205
 Cross Section 0.000 To 12.34 %

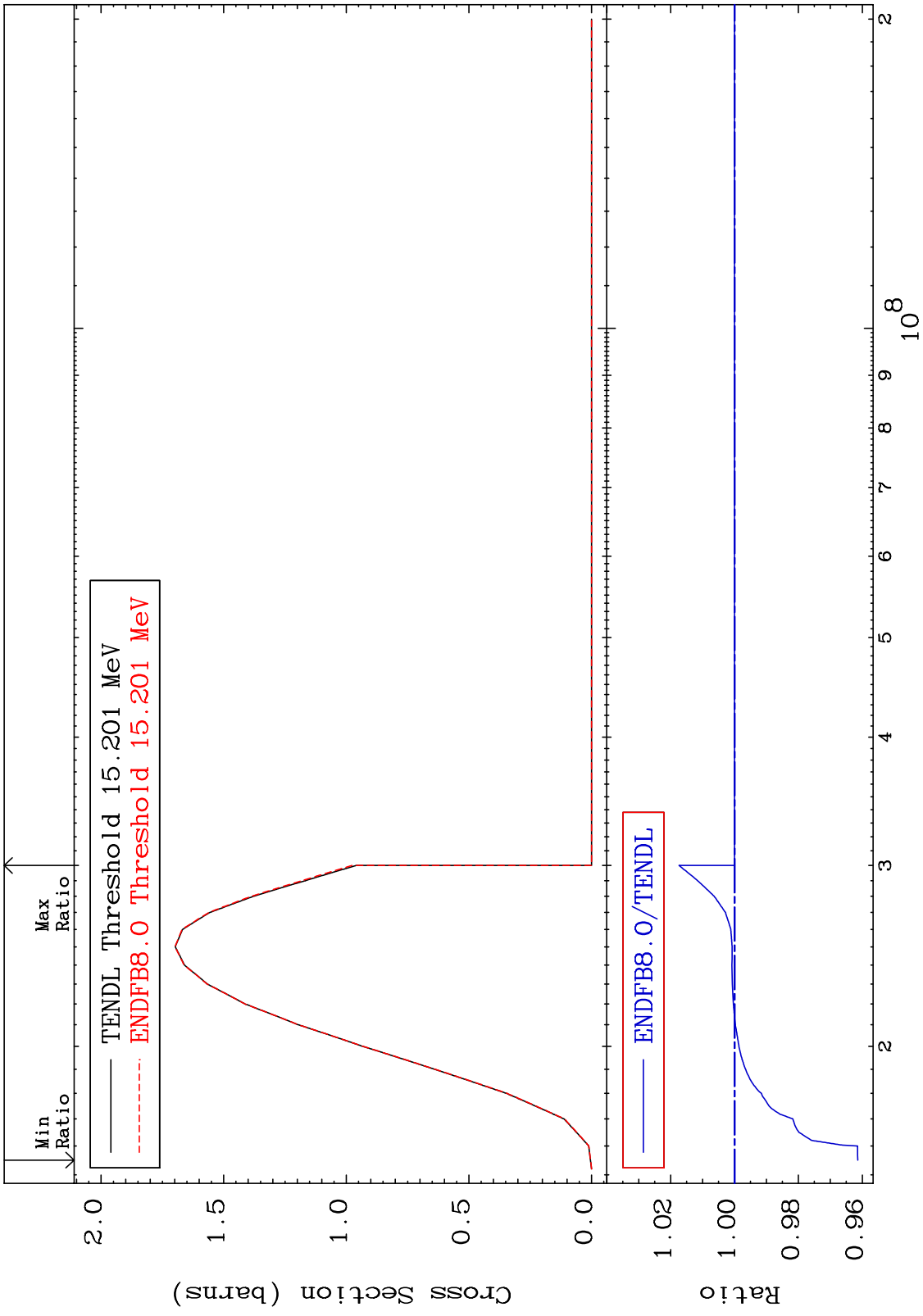


MAT 8228 (n,2n) Cross Section 82-Pb-205 -1.591 To 0.073 %



5 82-Pb-205

MAT 8228 (n,3n) Cross Section 82-Pb-205 -3.861 To 1.737 %



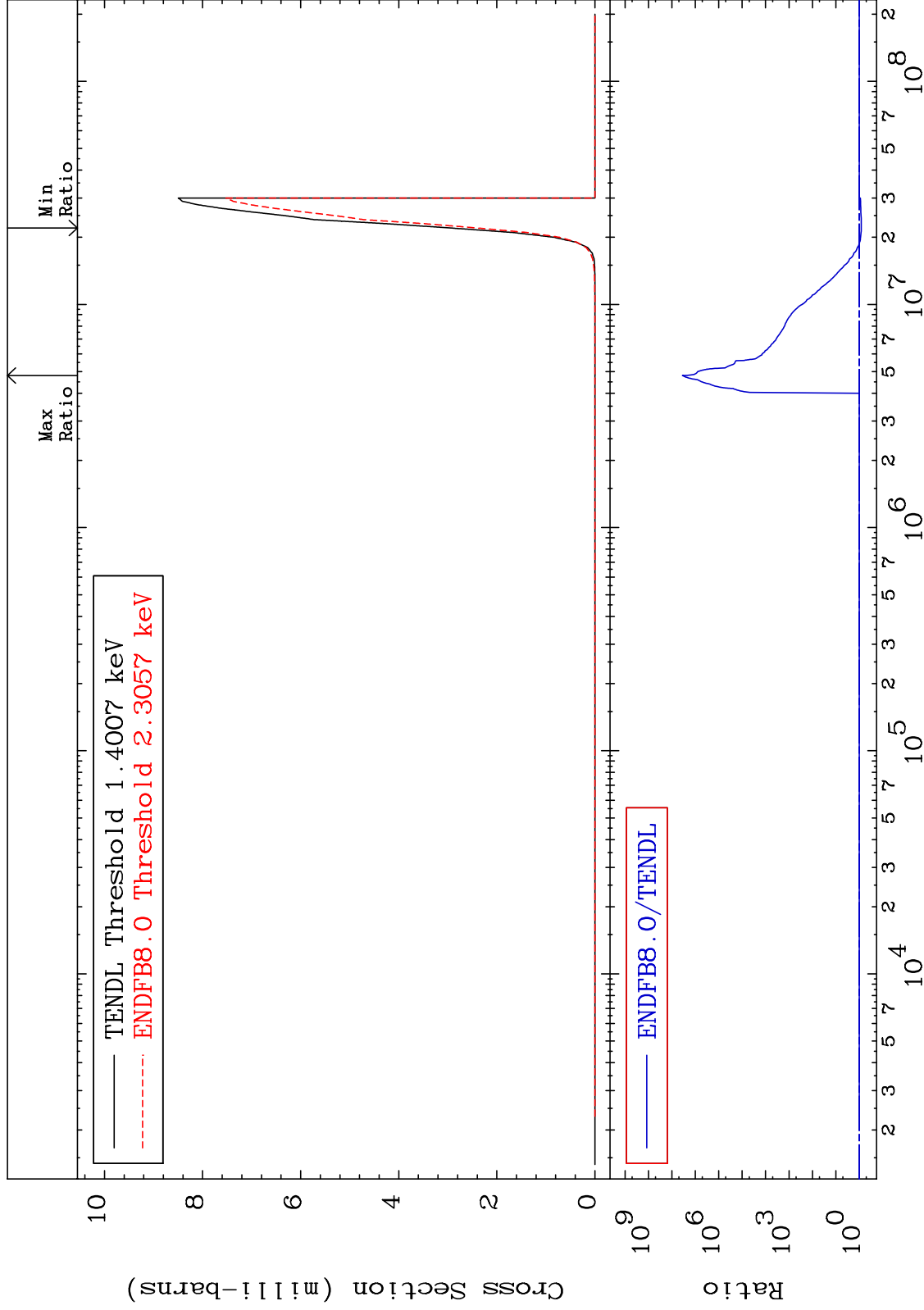
MAT 8228

$(n, n') \alpha$

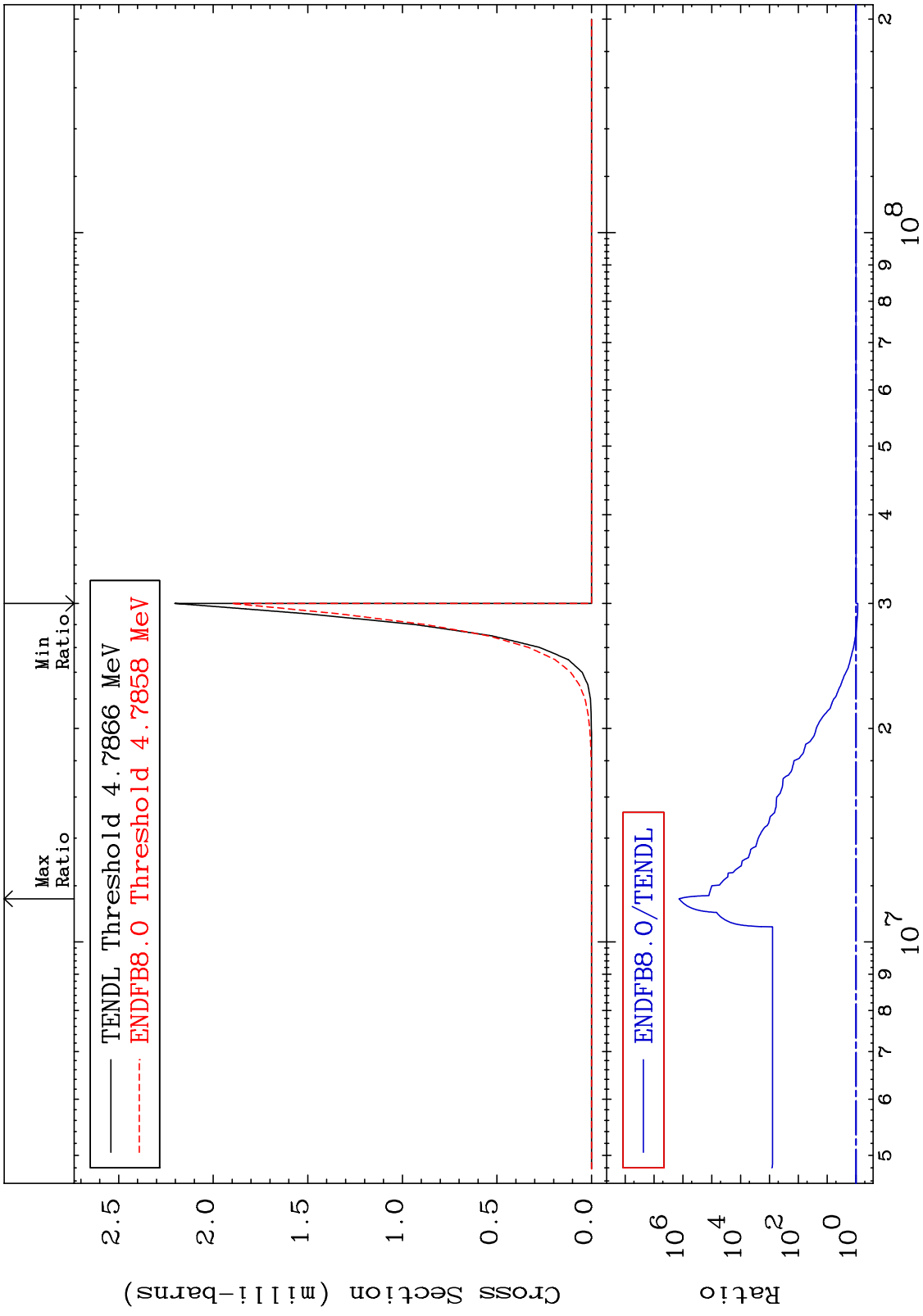
82-Pb-205

Cross Section

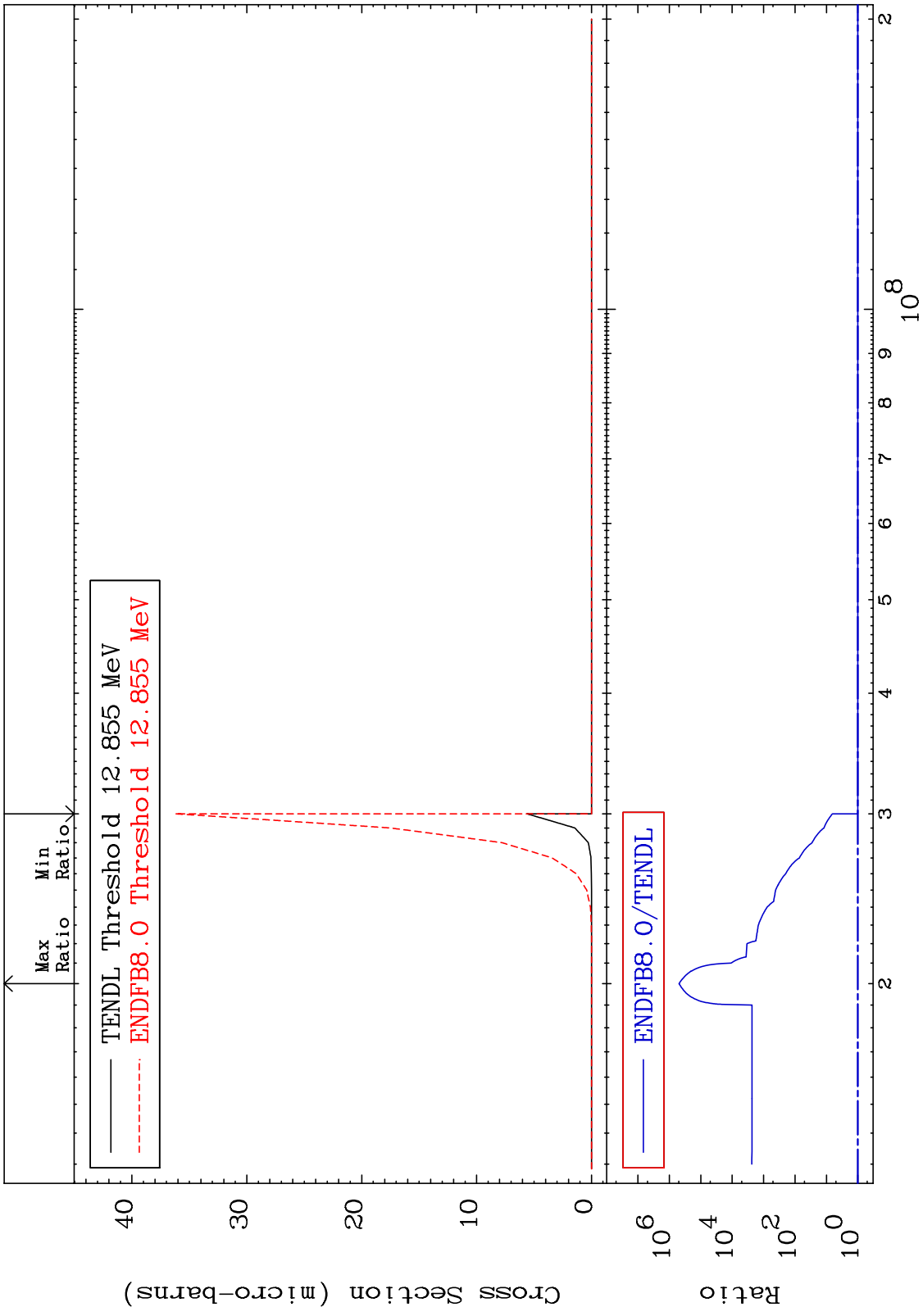
-18.35 To 9999. %



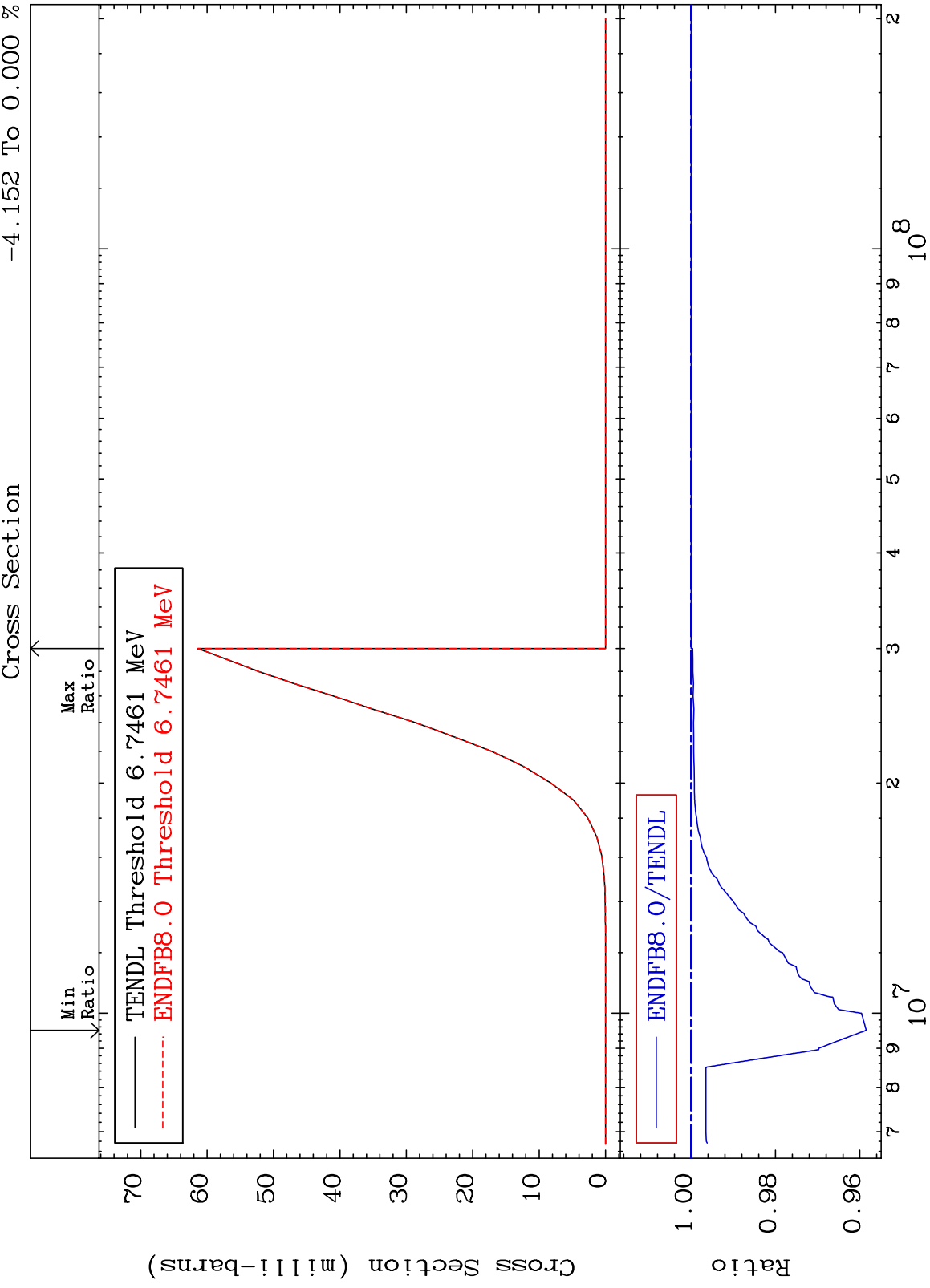
MAT 8228 $(n,2n) \alpha$ 82-Pb-205
 Cross Section -13.58 To 9999. %



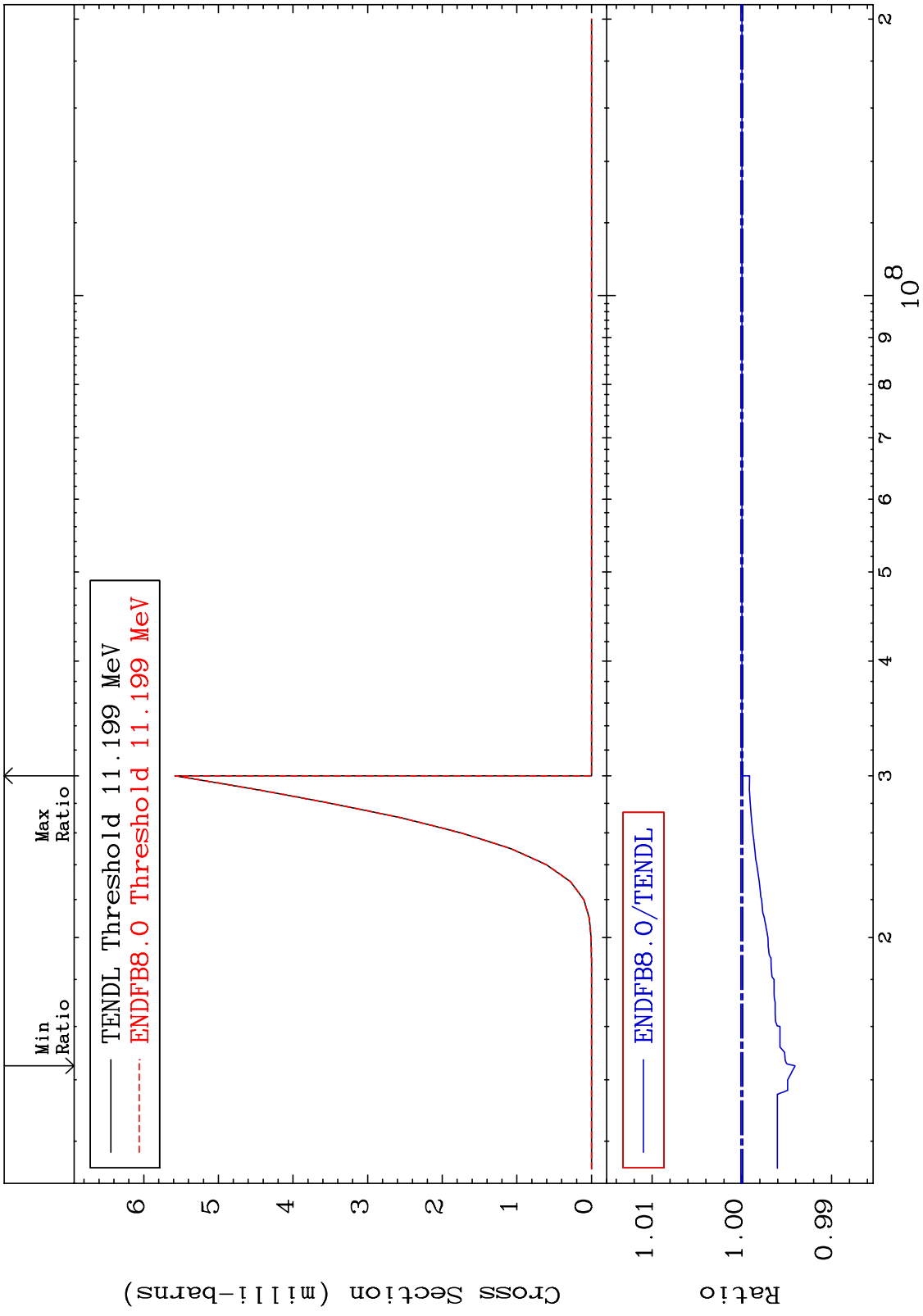
MAT 8228 $(n, 3n) \alpha$ 82-Pb-205
 Cross Section 0.000 To 9999. %



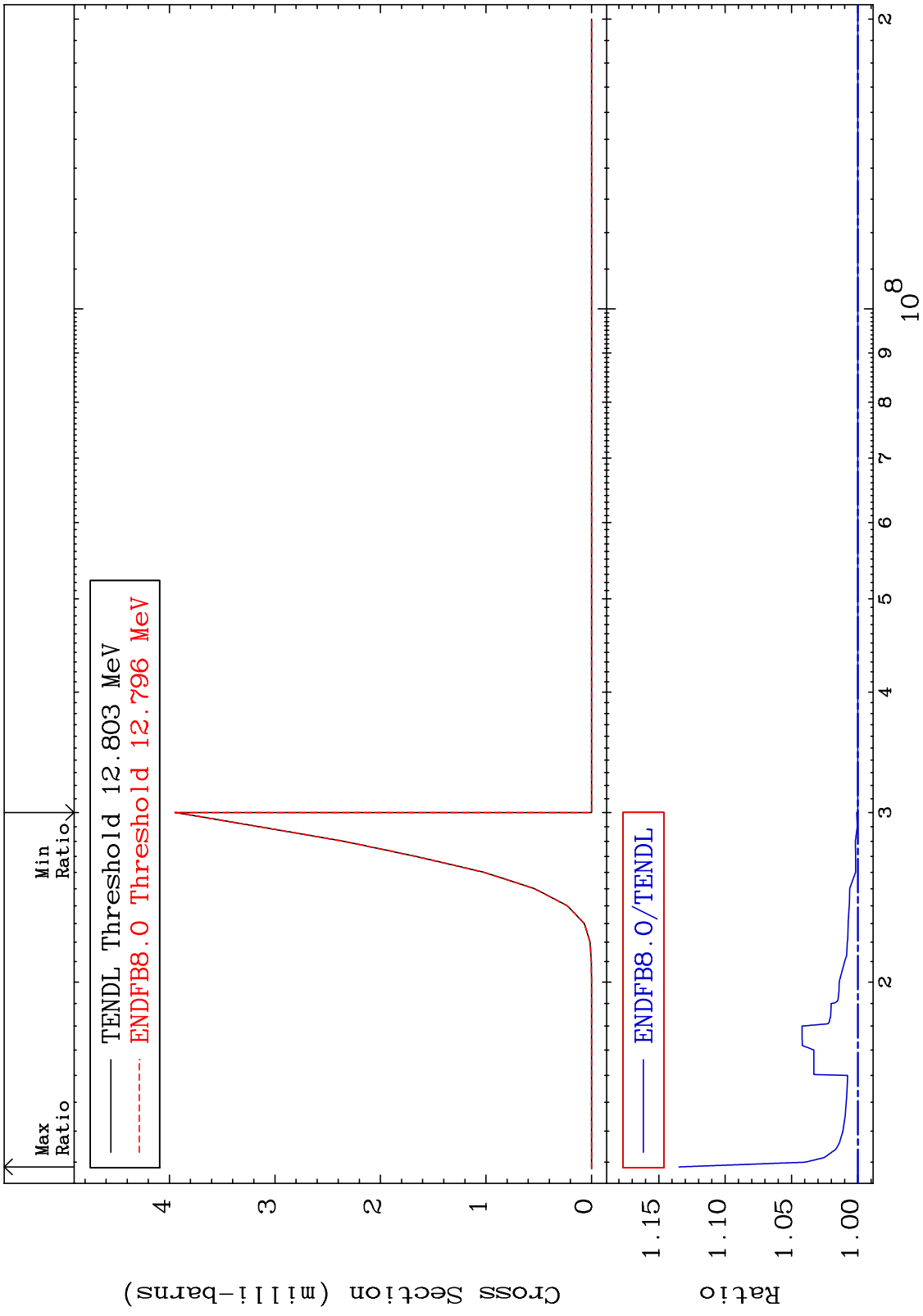
MAT 8228 (n, n') p 82-Pb-205 -4.152 To 0.000 %



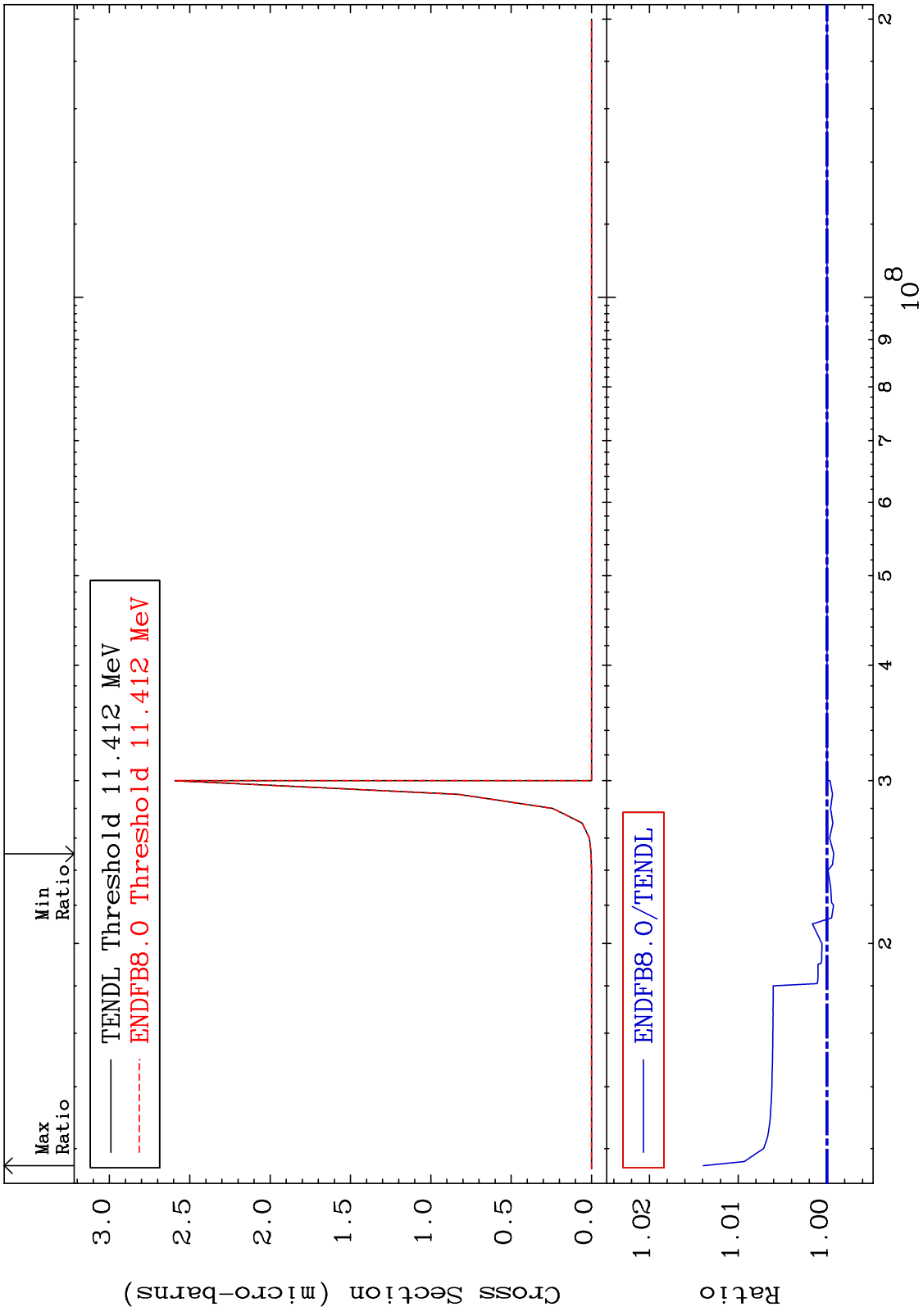
10 82-Pb-205



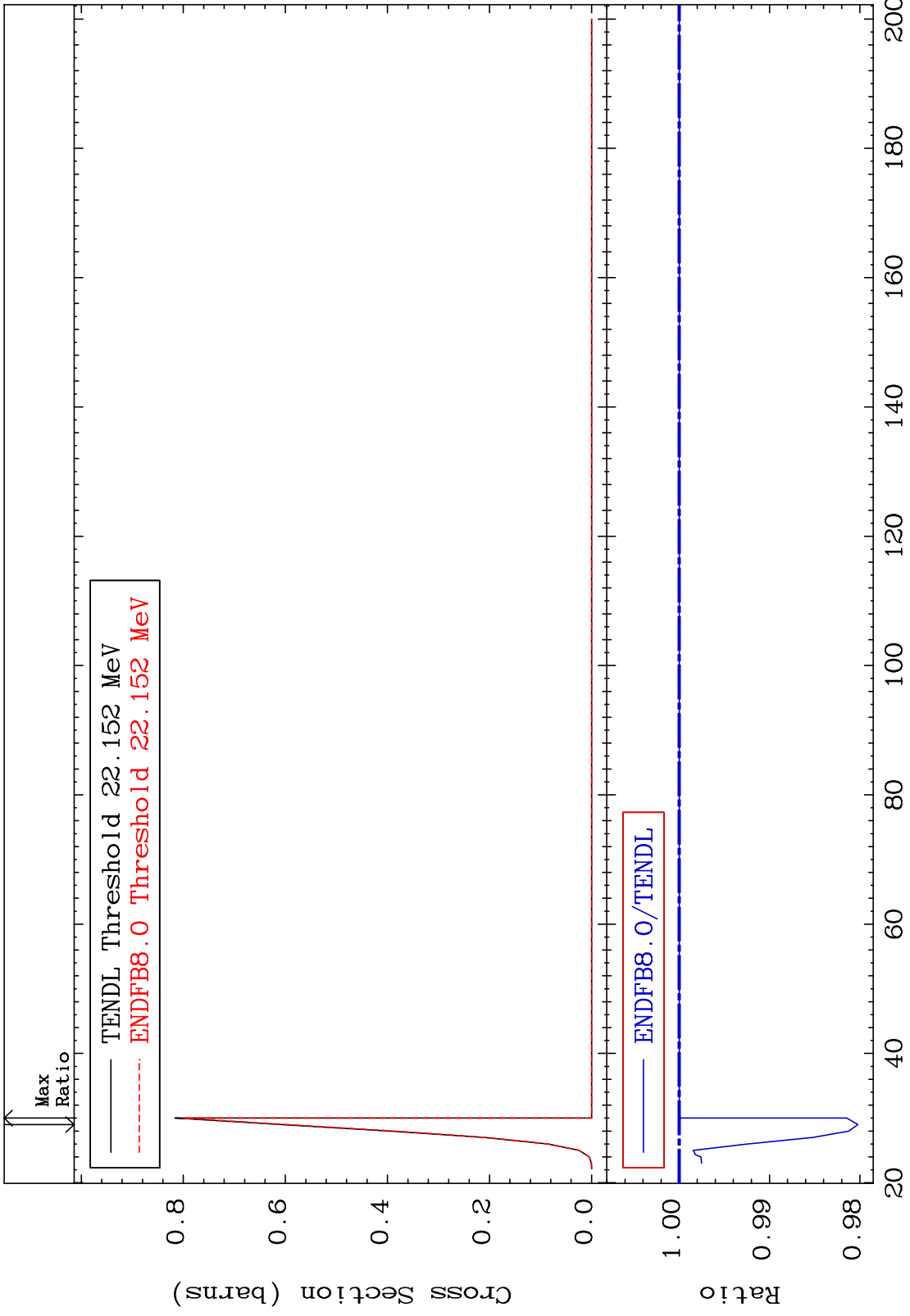
MAT 8228 (n,n') t 82-Pb-205
 Cross Section 0.000 To 13.47 %



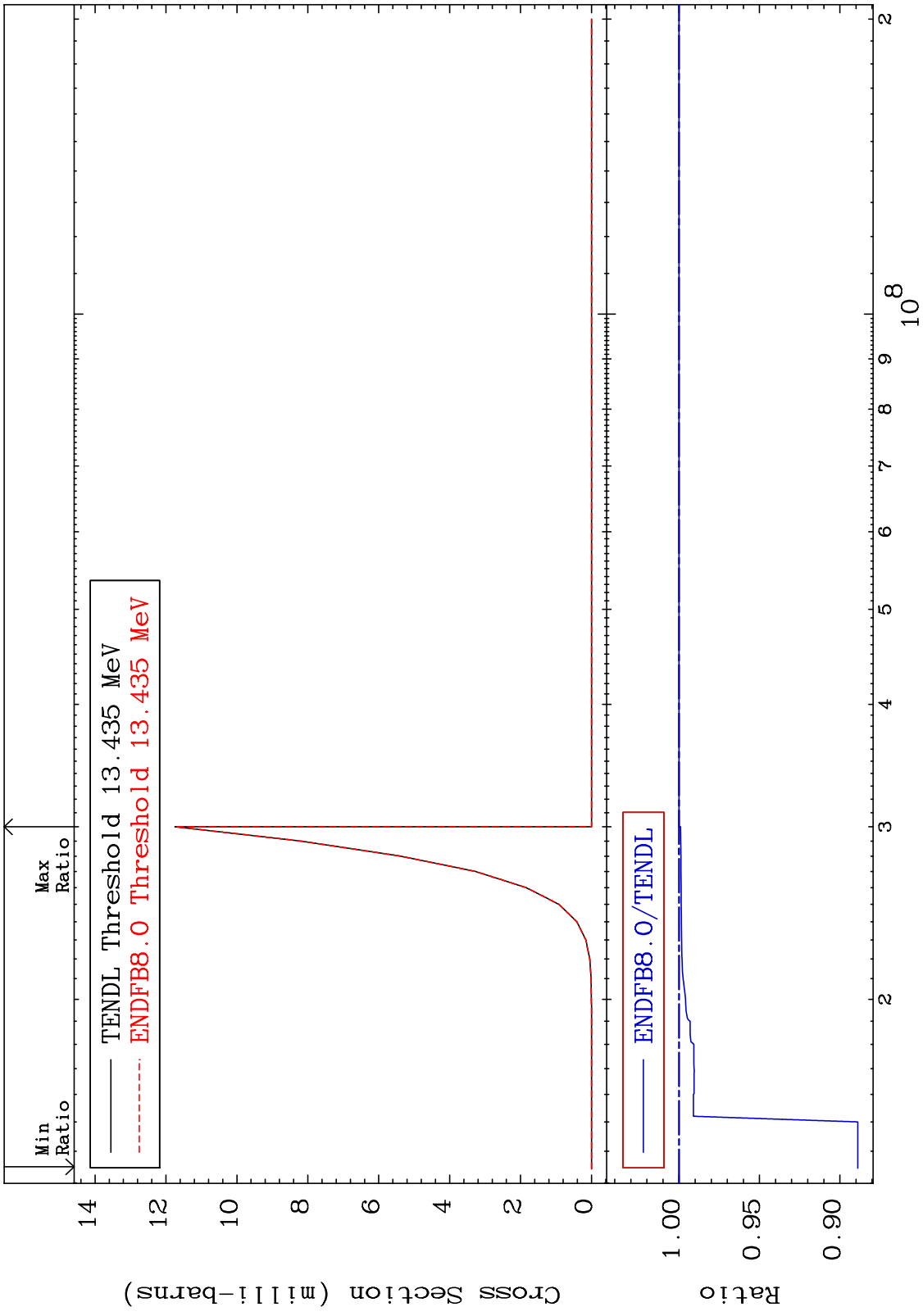
MAT 8228 (n,n') He-3 82-Pb-205
 Cross Section -0.076 To 1.395 %



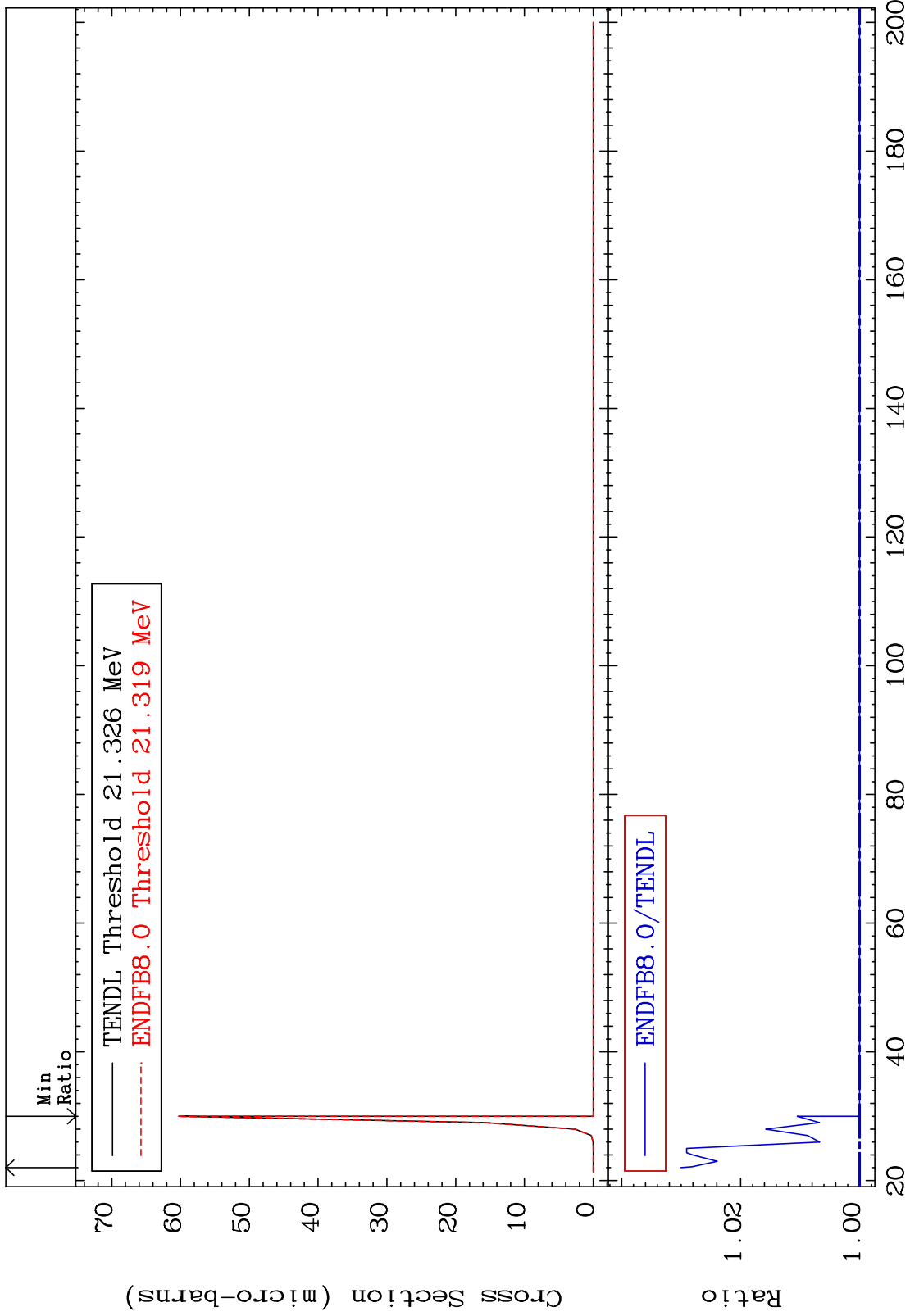
MAT 8228 (n,4n) Cross Section 82-Pb-205
 -1.979 To 0.000 %



MAT 8228 (n,2n) p 82-Pb-205
 Cross Section -11.11 To 0.000 %

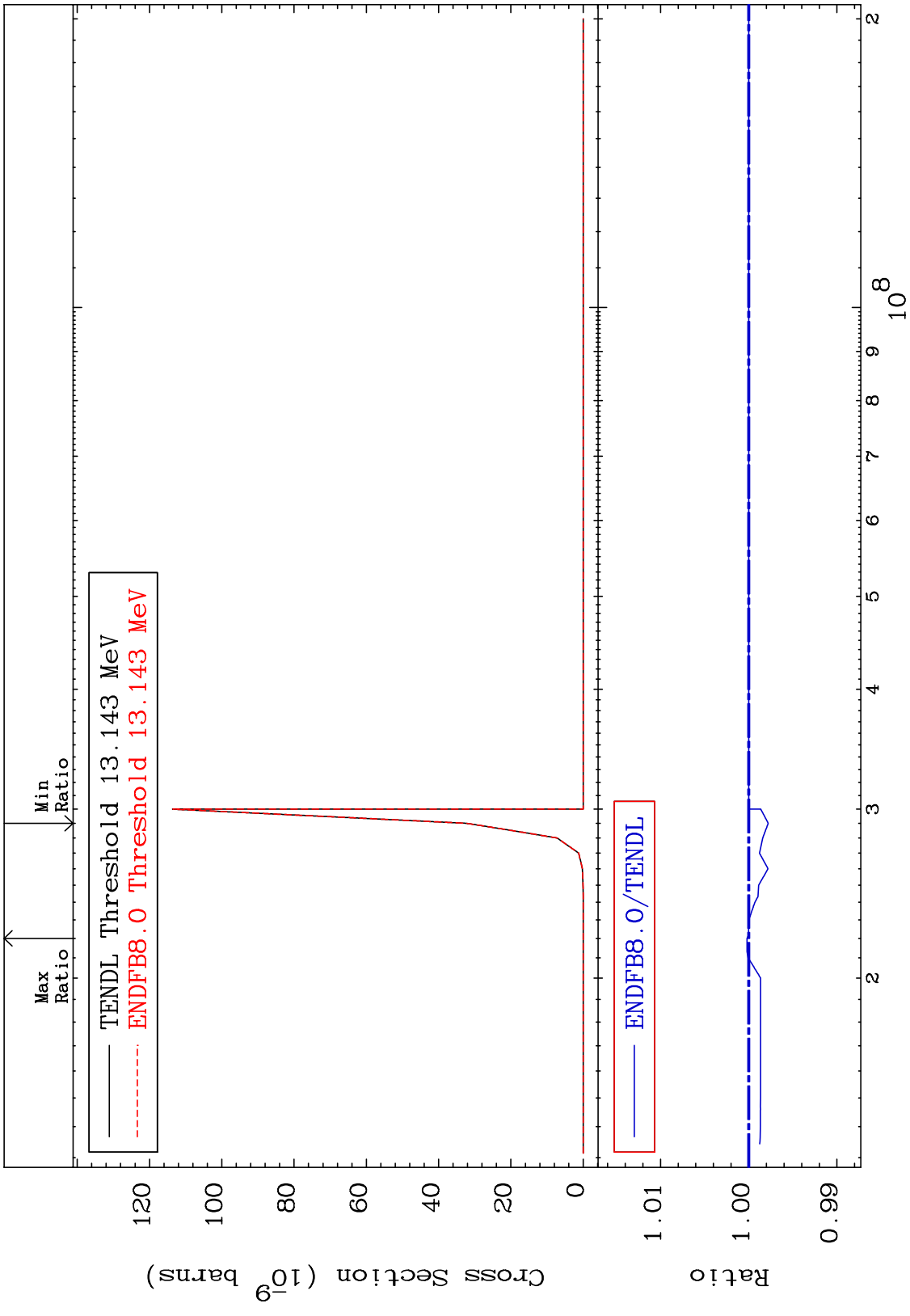


MAT 8228 (n,3n) p 82-Pb-205
 Cross Section 0.000 To 3.007 %

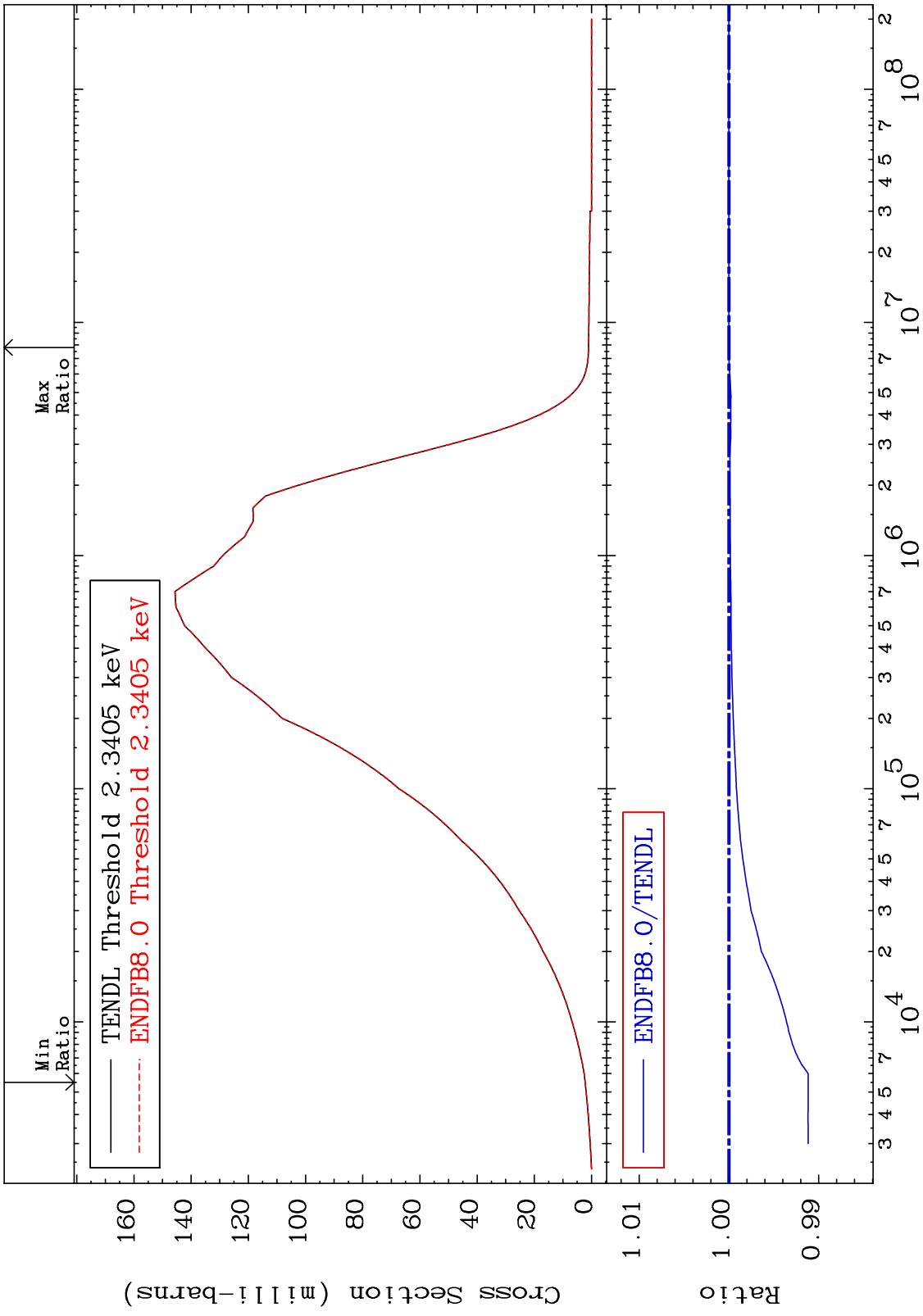


16 82-Pb-205

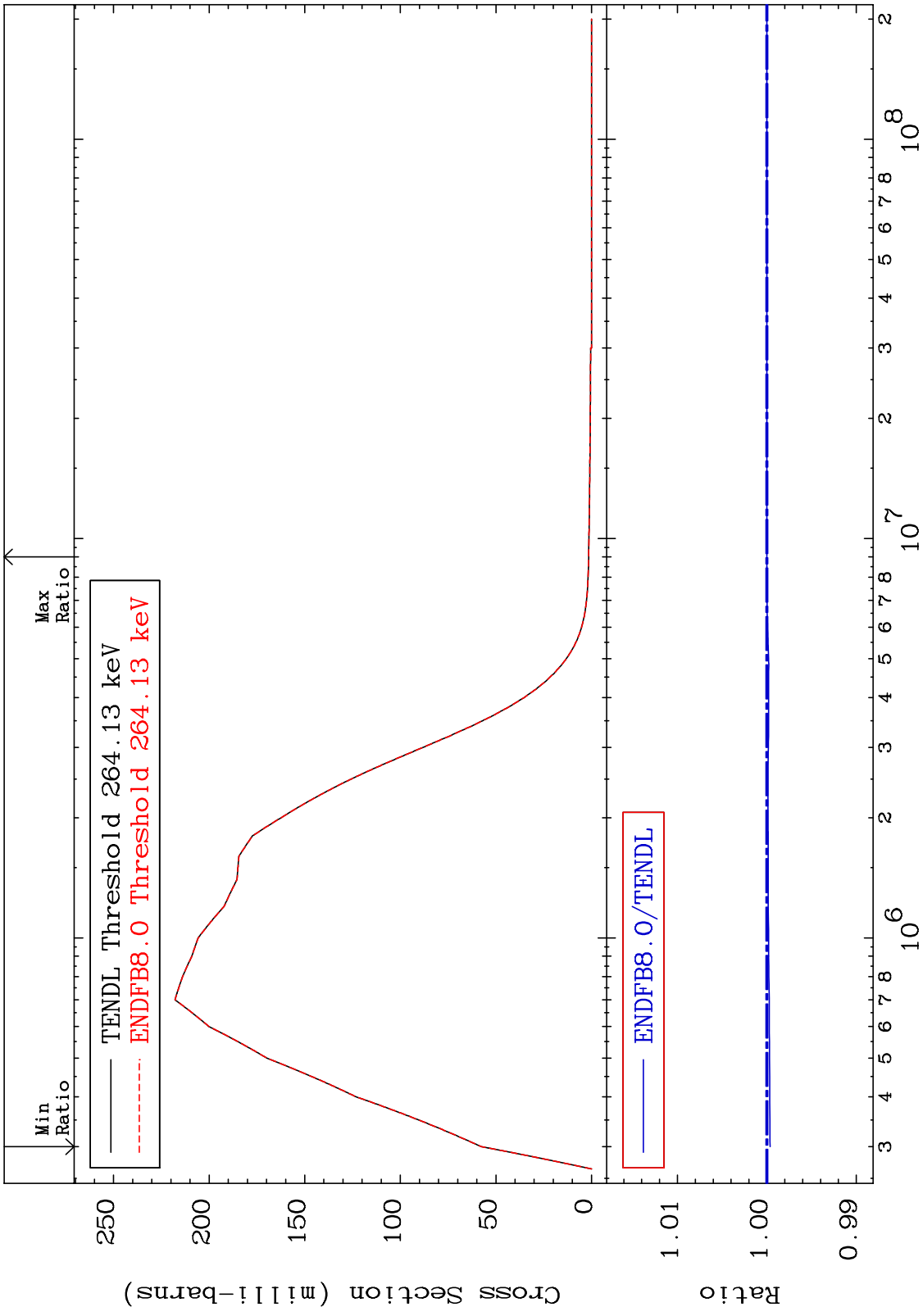
MAT 8228 (n,2n) p 82-Pb-205
 Cross Section -0.221 To 0.020 %



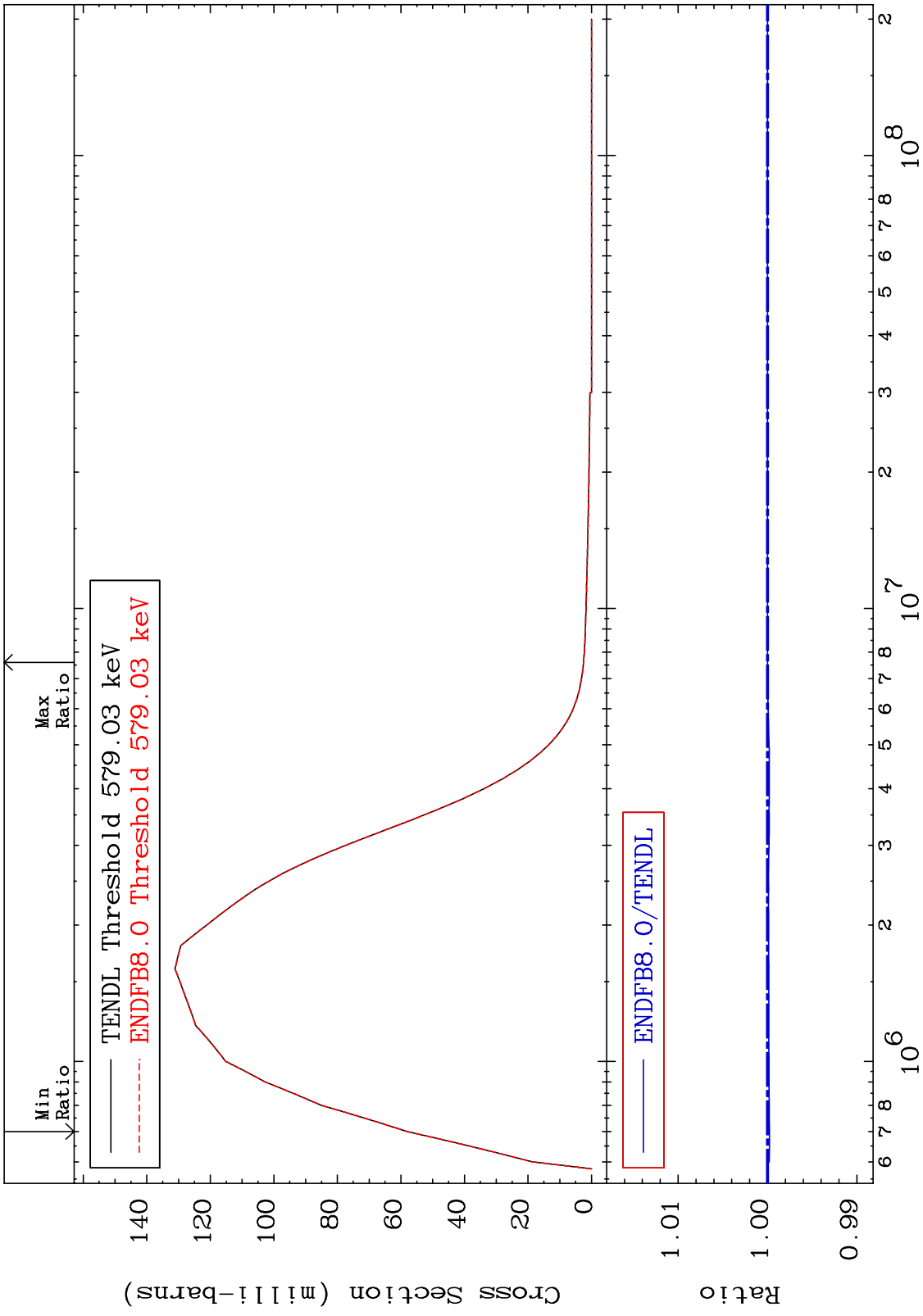
MAT 8228 MT= 51 (n,n') Level Cross Section 82-Pb-205
 -0.882 To 0.000 %



MAT 8228 MT= 52 (n,n') Level Cross Section 82-Pb-205
 -0.036 To 0.000 %

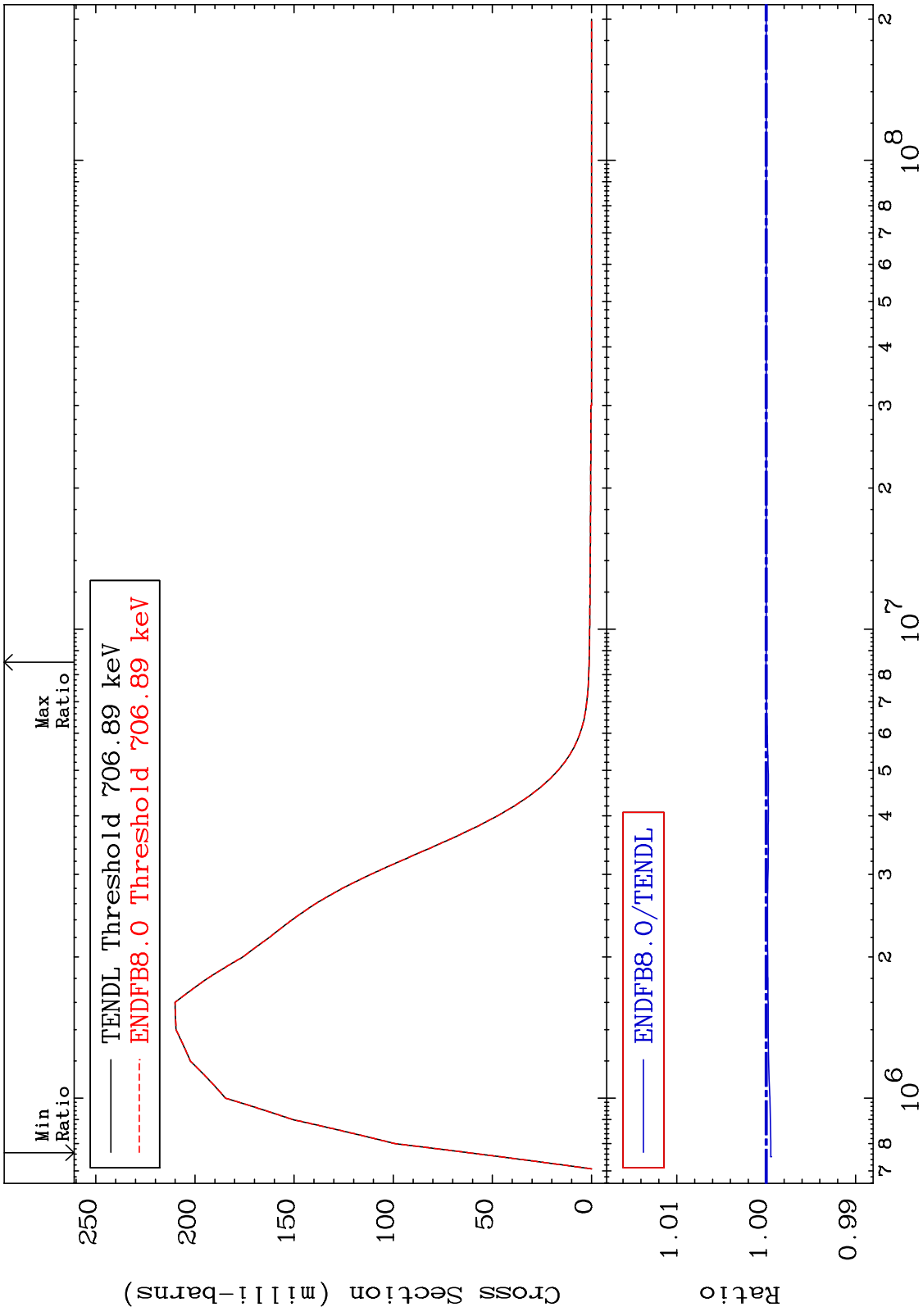


MAT 8228 MT= 53 (n,n') Level Cross Section 82-Pb-205
 -0.022 To 0.000 %

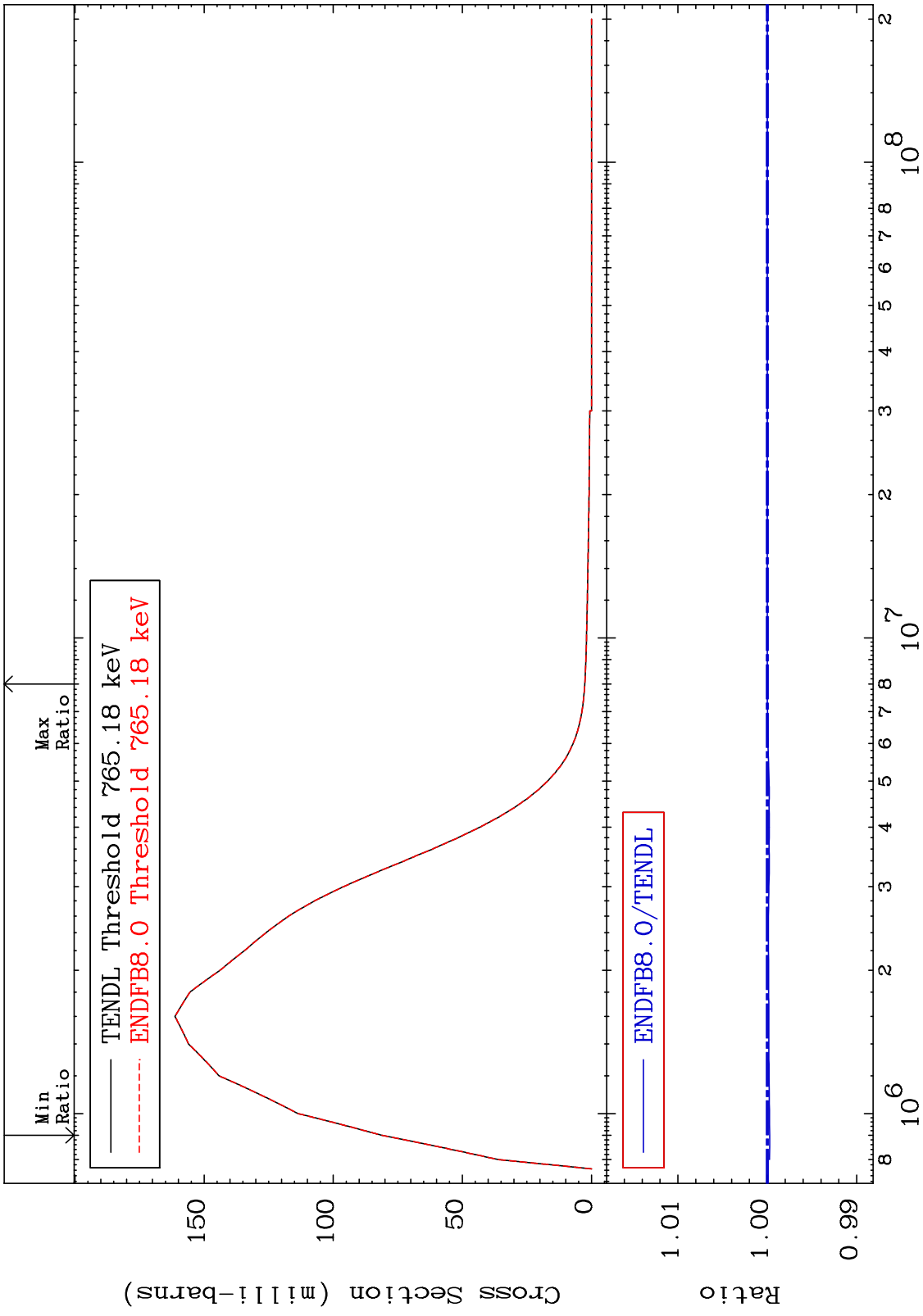


20 Incident Energy (eV) 82-Pb-205

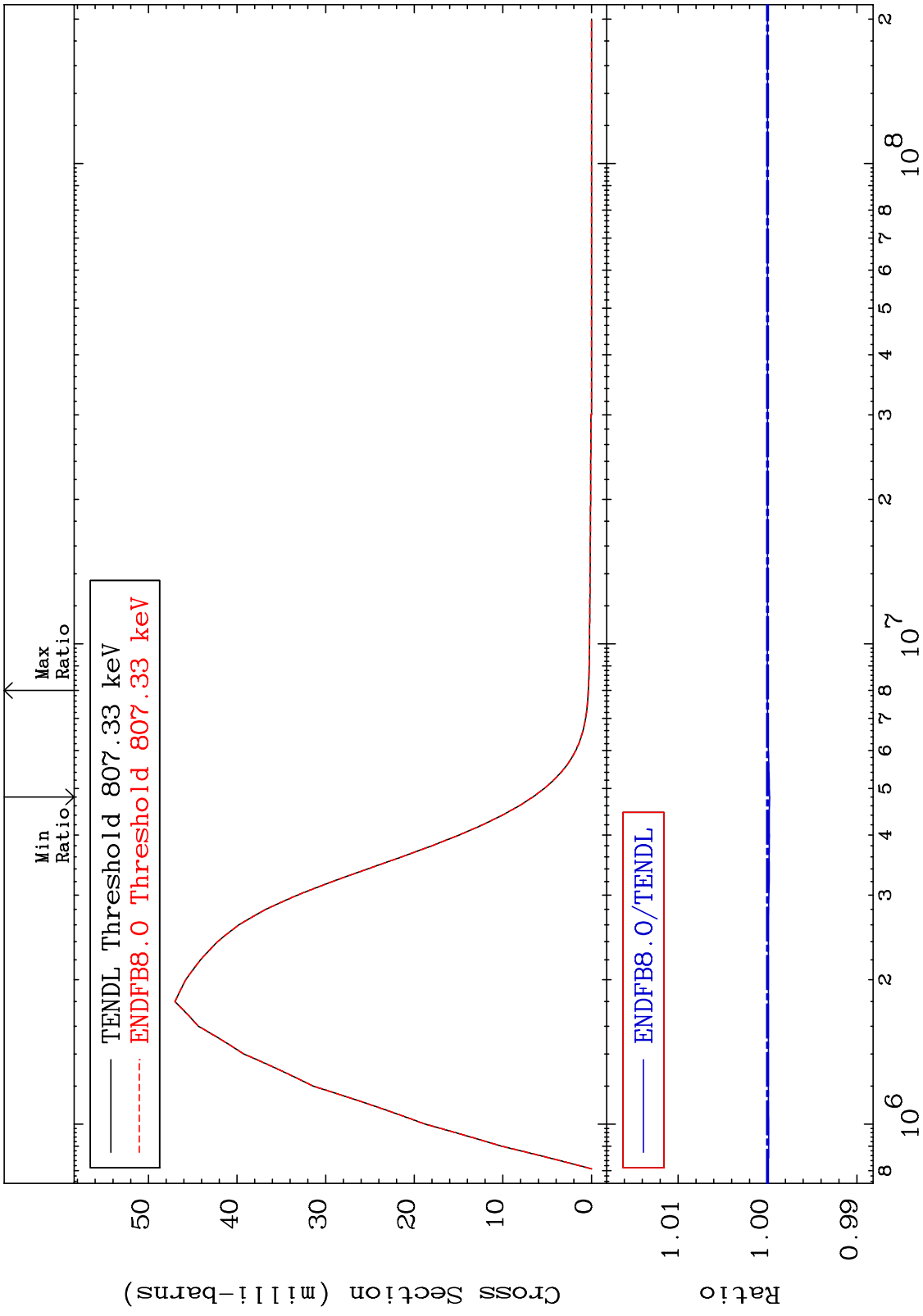
MAT 8228 MT= 54 (n,n') Level Cross Section 82-Pb-205
 -0.052 To 0.002 %



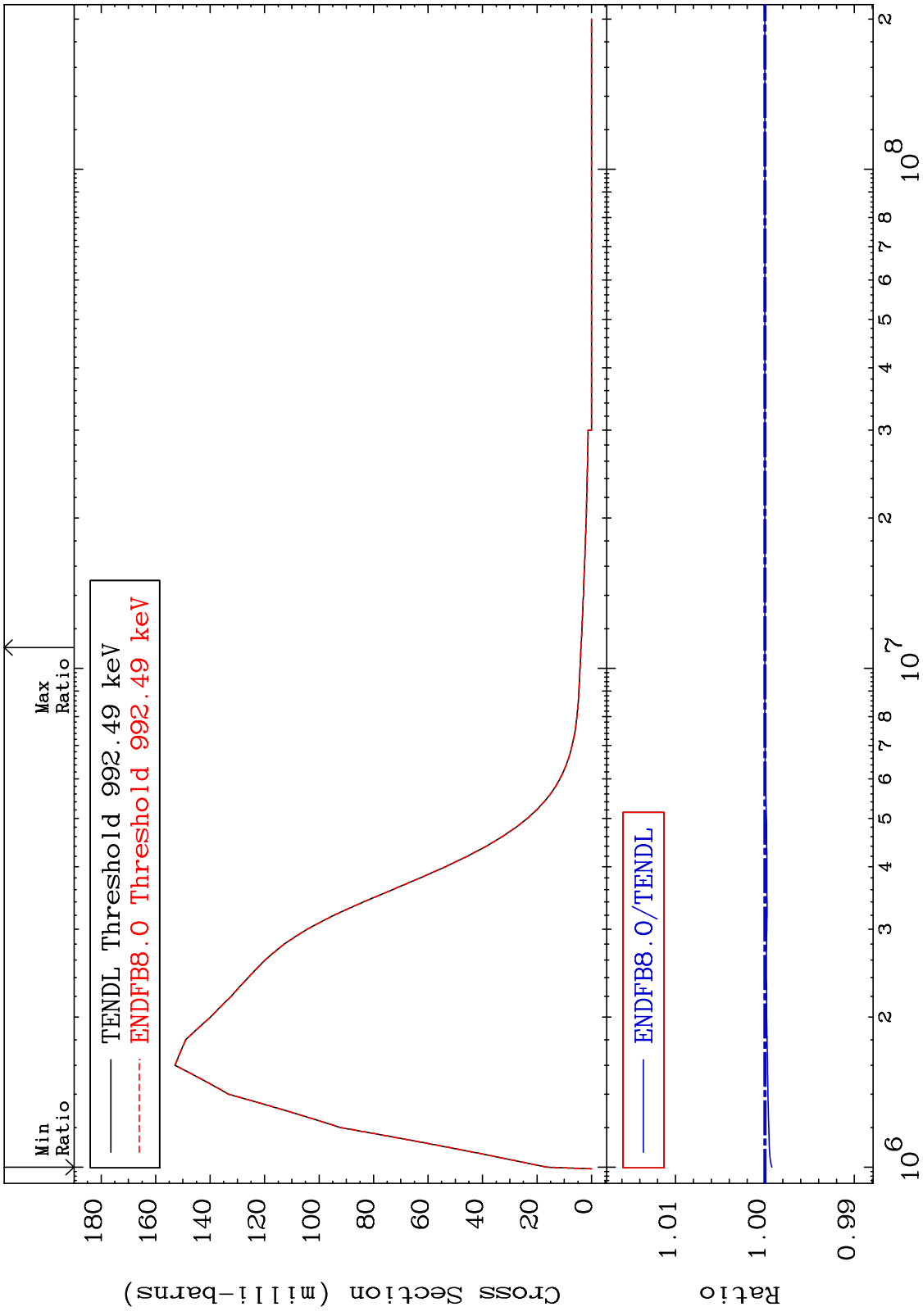
MAT 8228 MT= 55 (n,n') Level Cross Section 82-Pb-205
-0.025 To 0.000 %



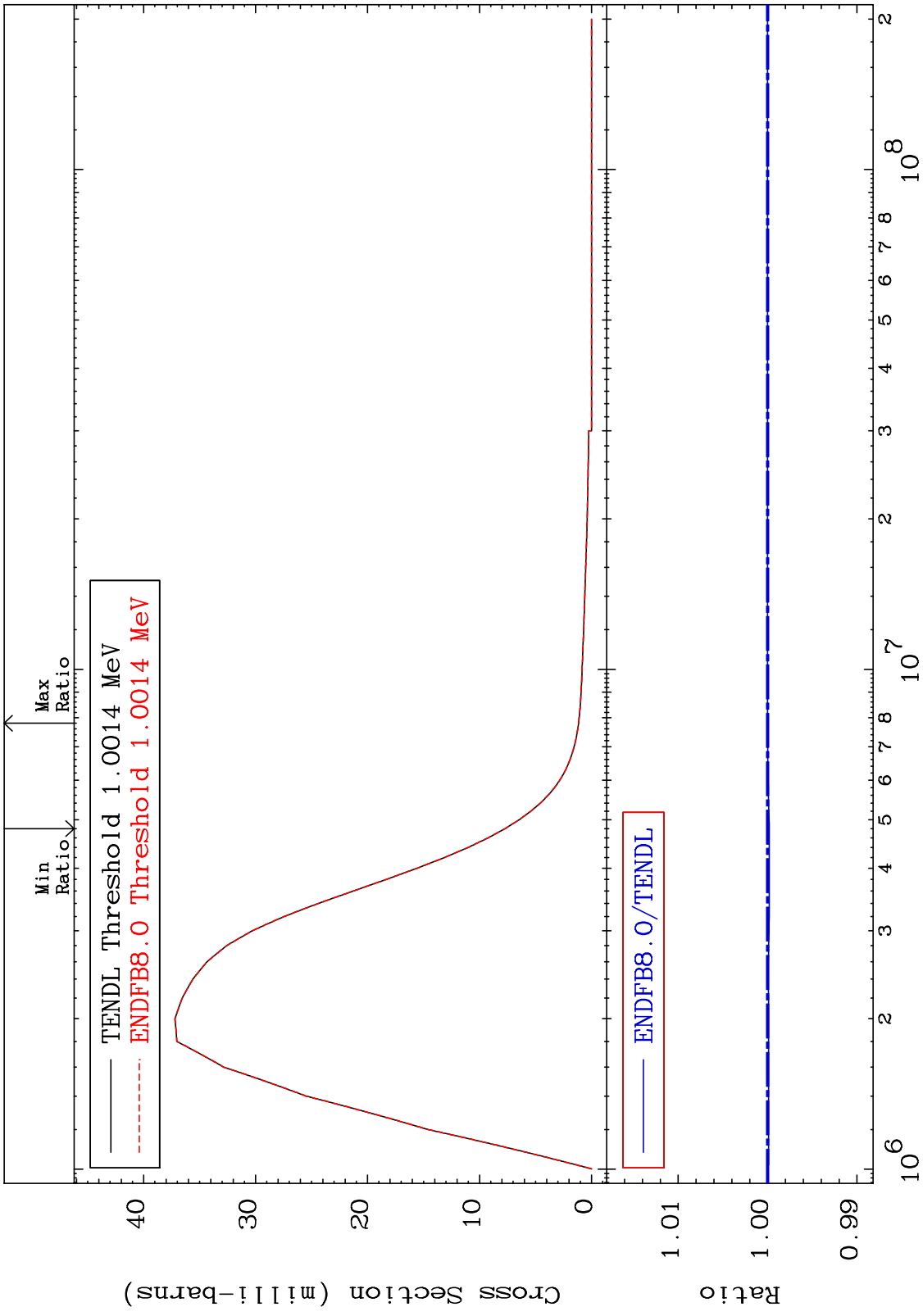
MAT 8228 MT= 56 (n,n') Level Cross Section -0.024 To 0.002 % 82-Pb-205



MAT 8228 MT= 57 (n,n') Level Cross Section 82-Pb-205 -0.078 To 0.000 %

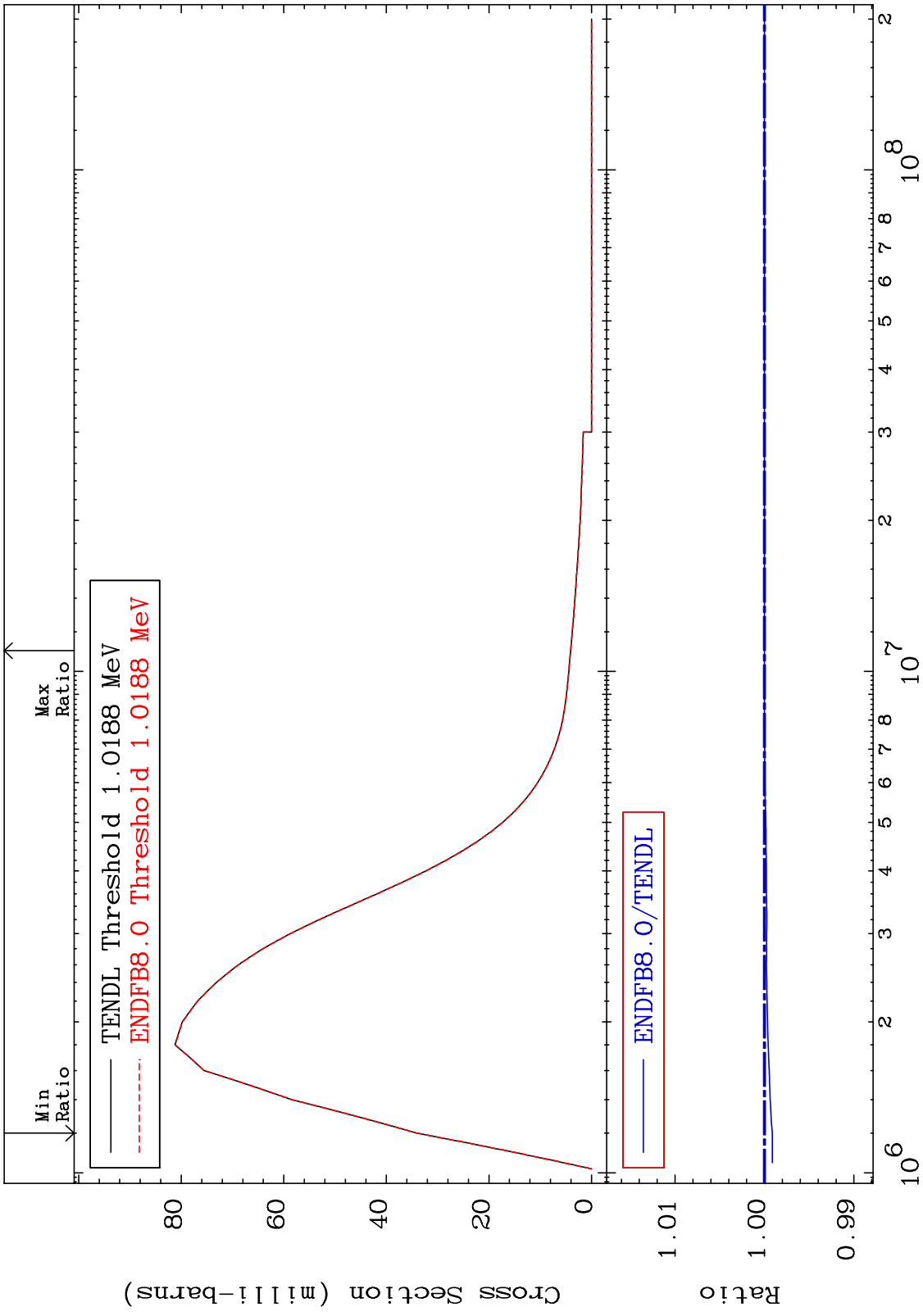


MAT 8228 MT= 58 (n,n') Level Cross Section 82-Pb-205
-0.020 To 0.000 %



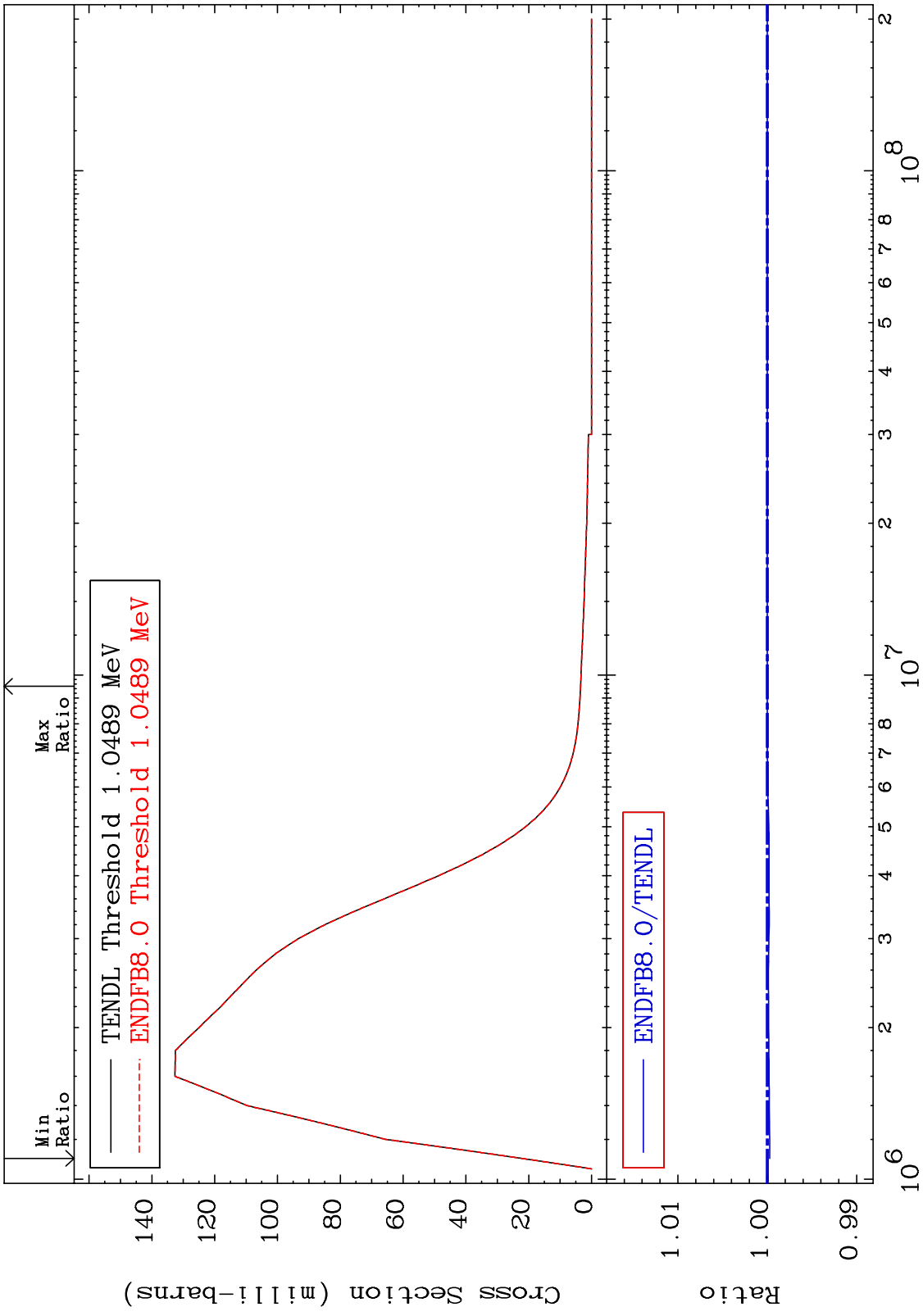
25 82-Pb-205

MAT 8228 MT= 59 (n,n') Level Cross Section 82-Pb-205
 -0.088 To 0.000 %



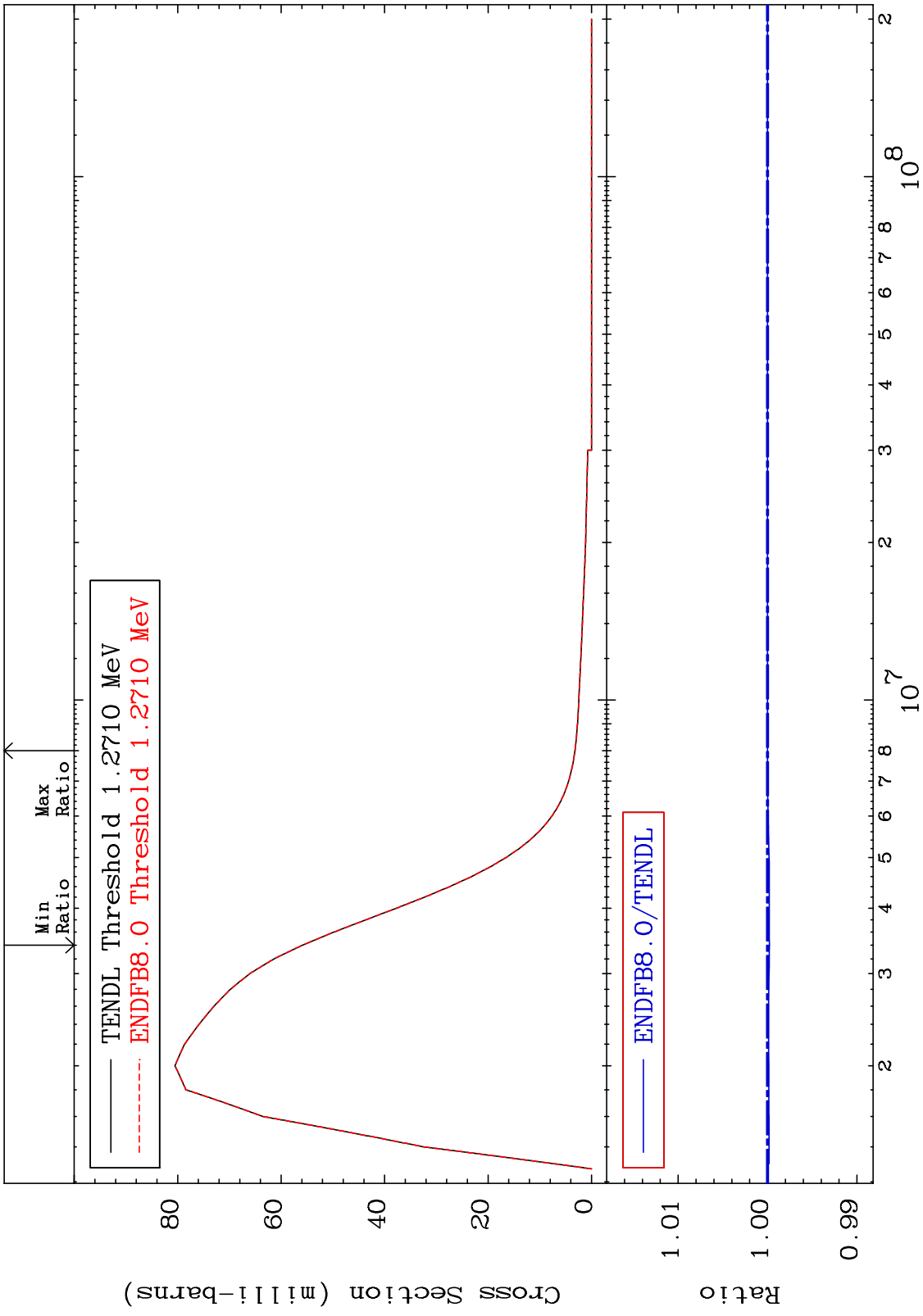
26 Incident Energy (eV) 82-Pb-205

MAT 8228 MT= 60 (n,n') Level Cross Section 82-Pb-205
 -0.026 To 0.000 %

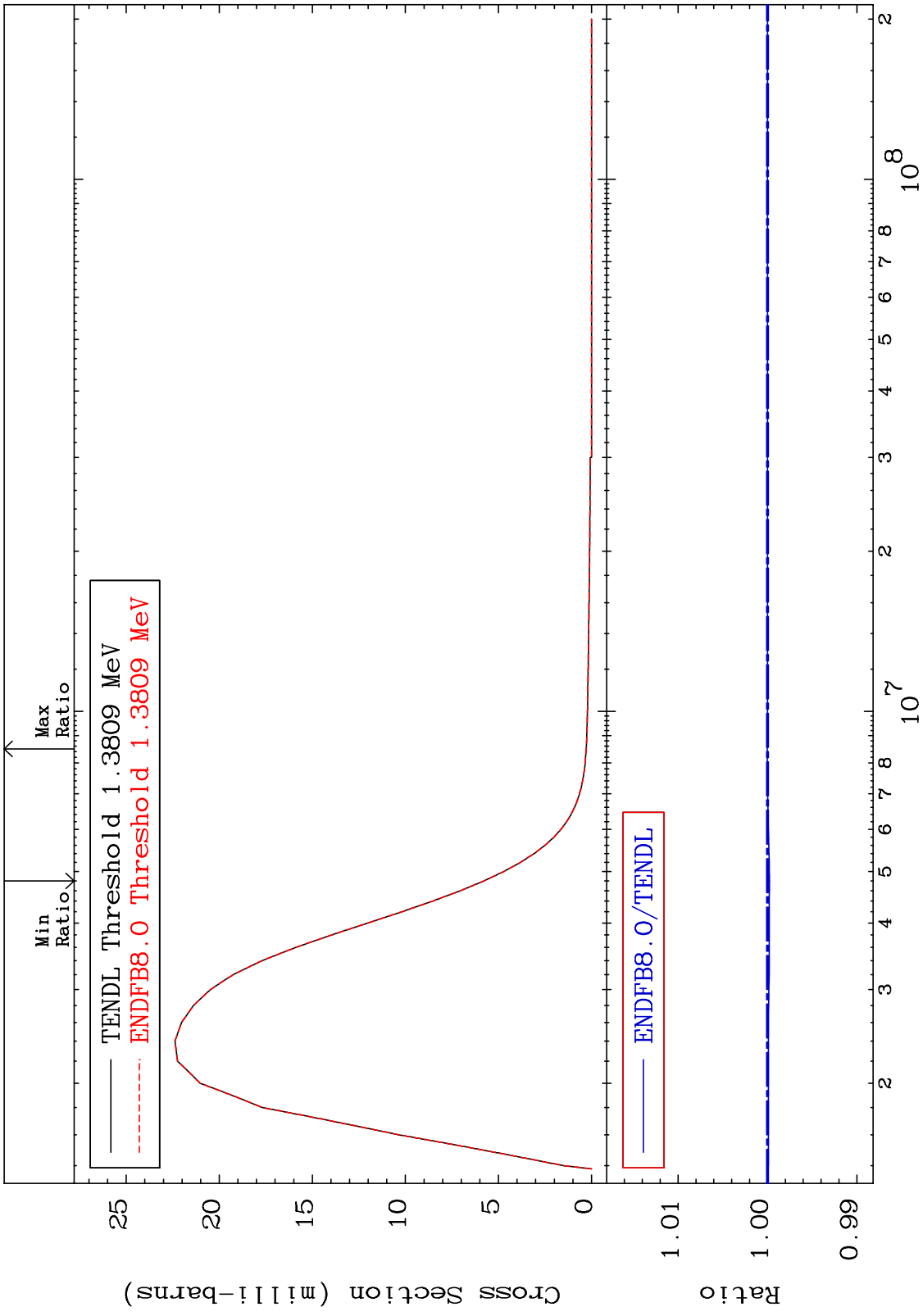


27 Incident Energy (eV) 82-Pb-205

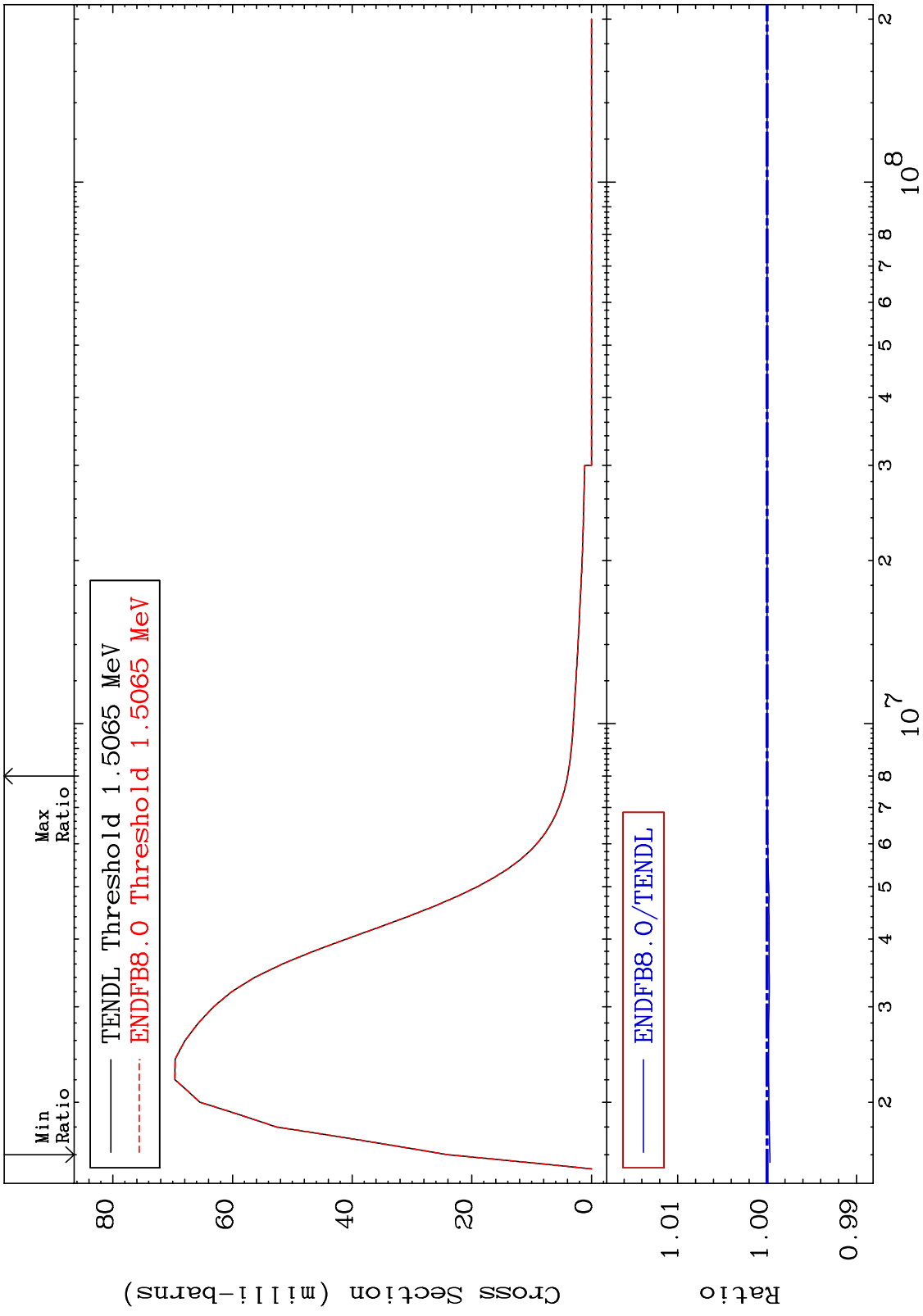
MAT 8228 MT= 61 (n,n') Level Cross Section 82-Pb-205
 -0.020 To 0.000 %



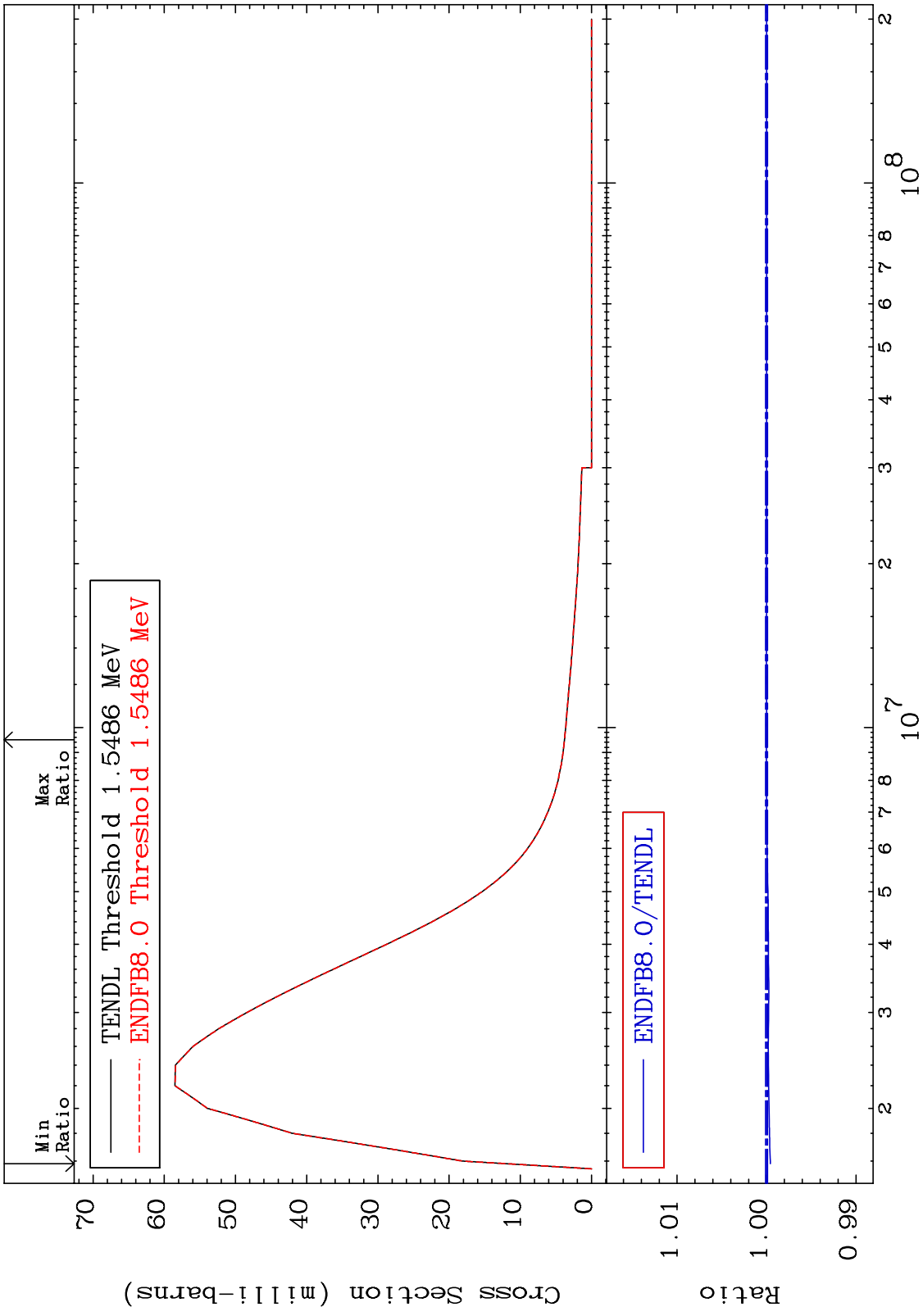
MAT 8228 MT= 62 (n,n') Level Cross Section 82-Pb-205
 -0.024 To 0.002 %



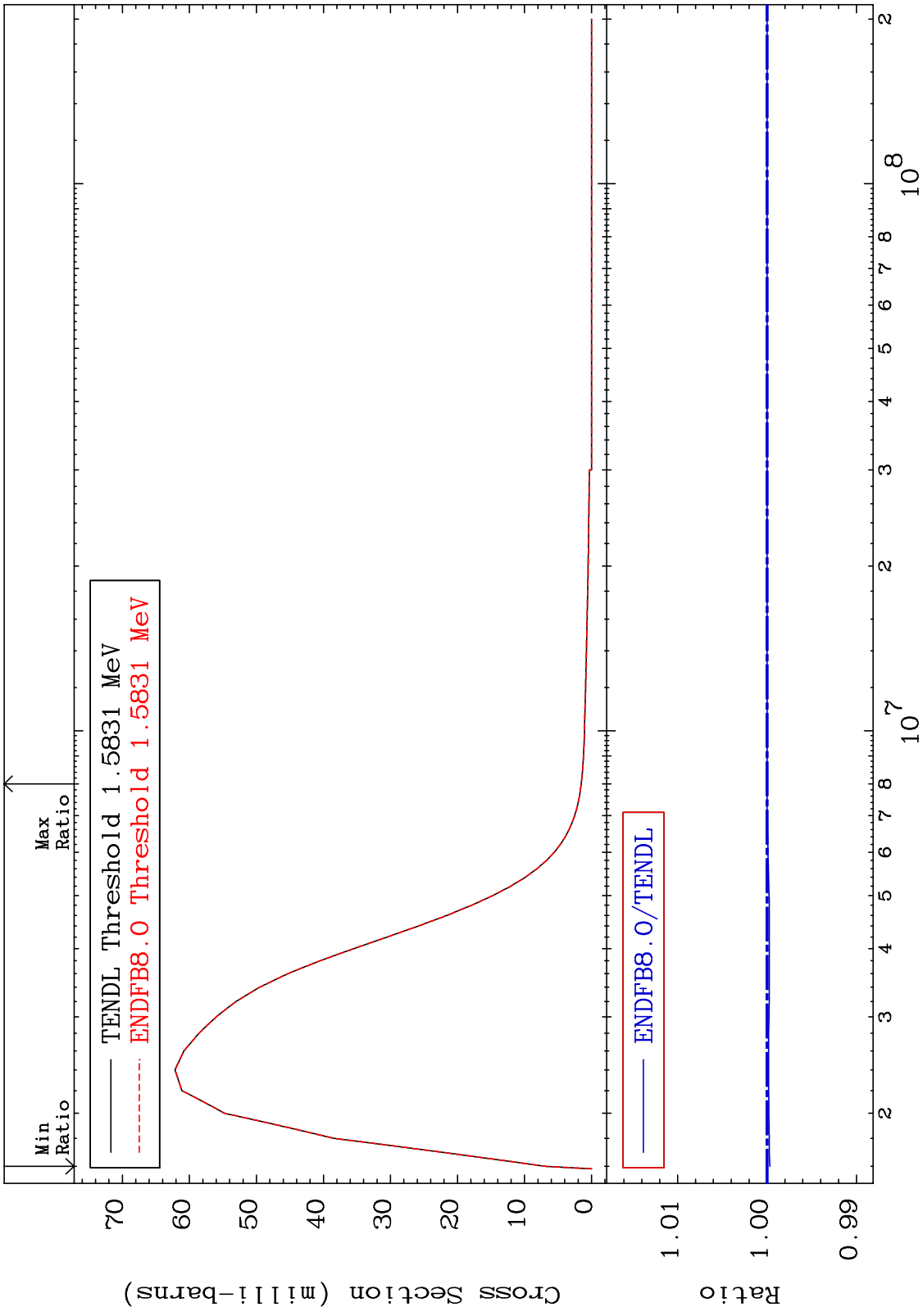
MAT 8228 MT= 63 (n,n') Level Cross Section 82-Pb-205
 -0.031 To 0.000 %



MAT 8228 MT= 64 (n,n') Level Cross Section 82-Pb-205
 -0.043 To 0.000 %



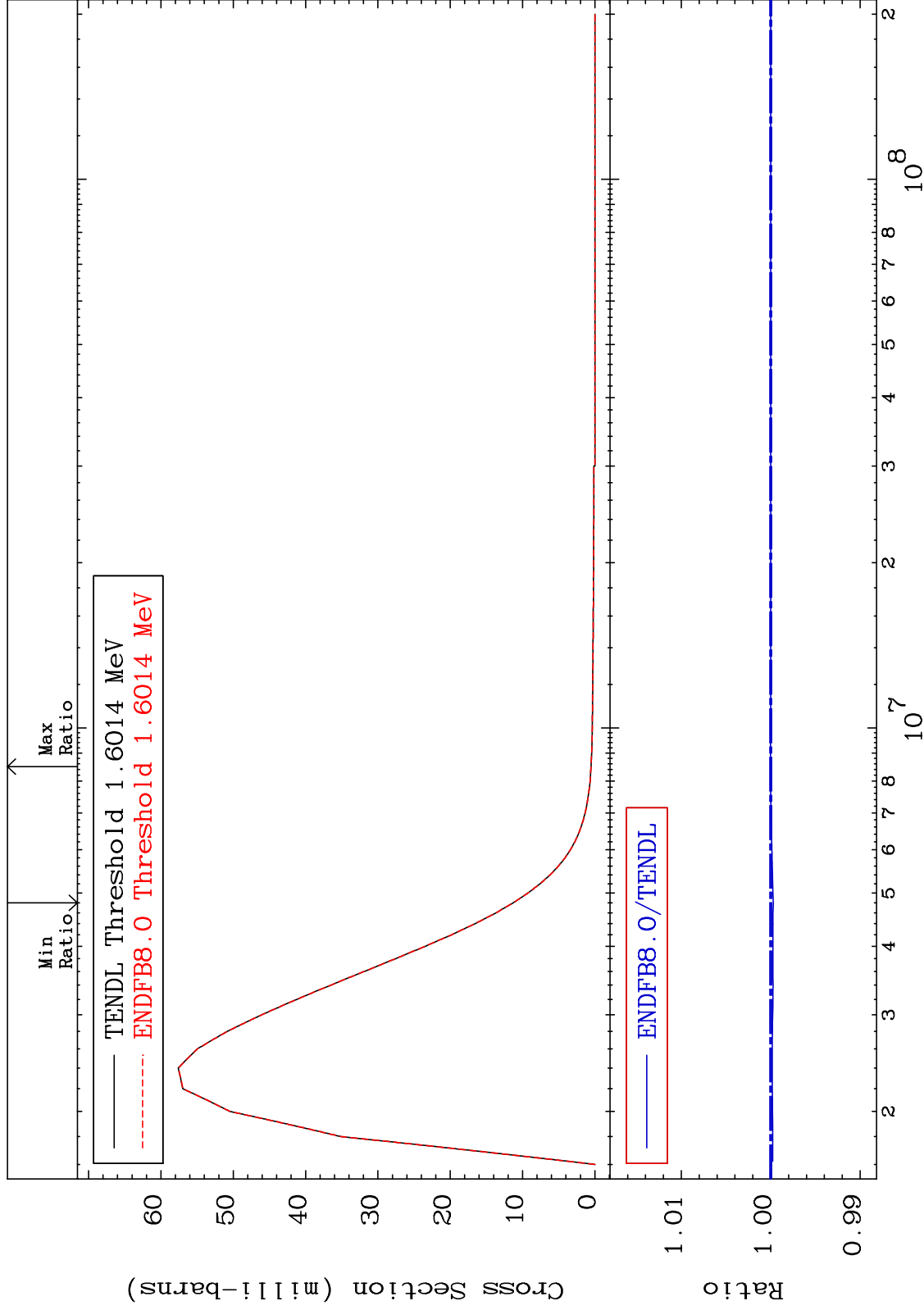
MAT 8228 MT= 65 (n,n') Level Cross Section 82-Pb-205
 -0.033 To 0.001 %



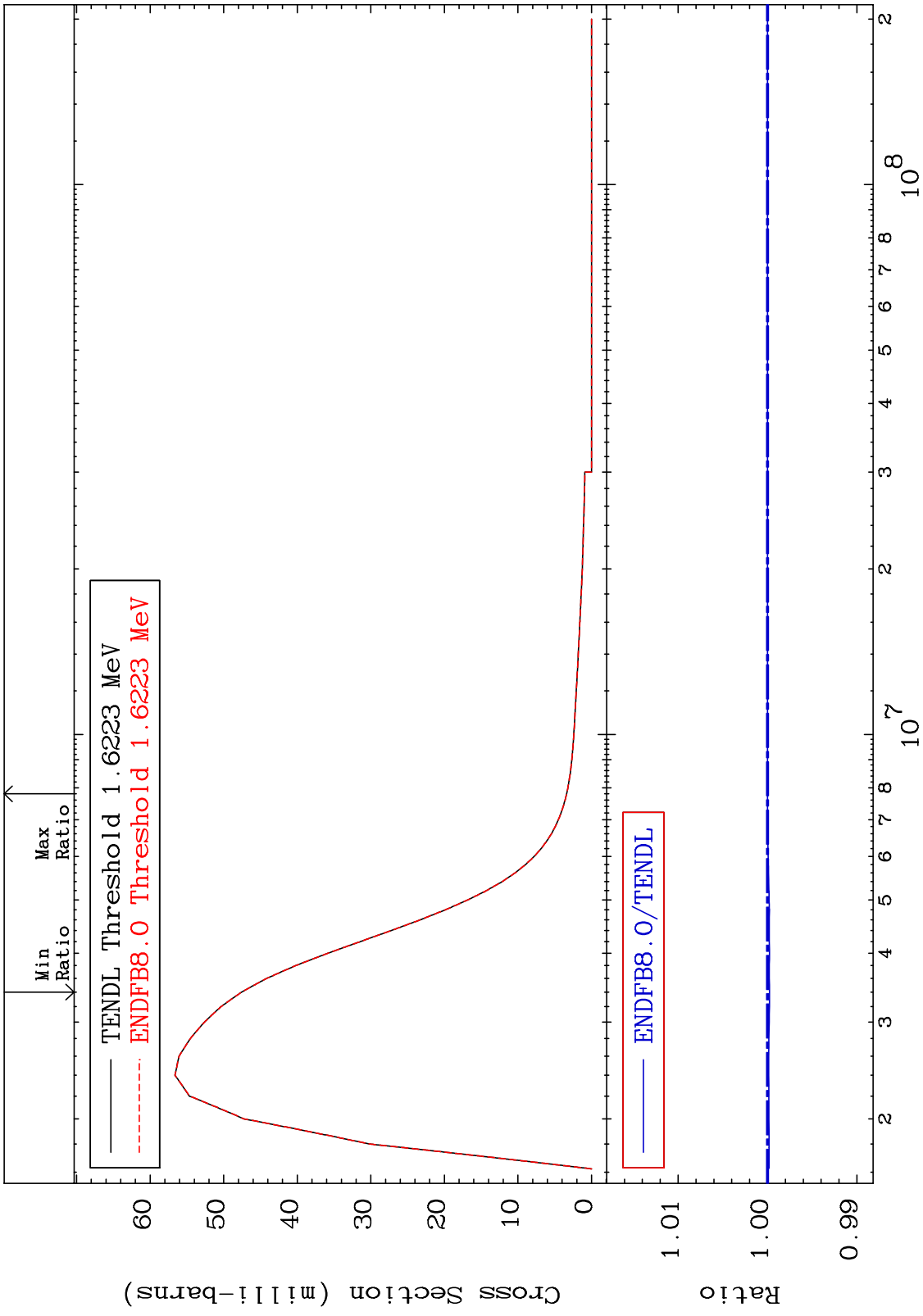
MAT 8228

MT= 66 (n,n') Level
Cross Section

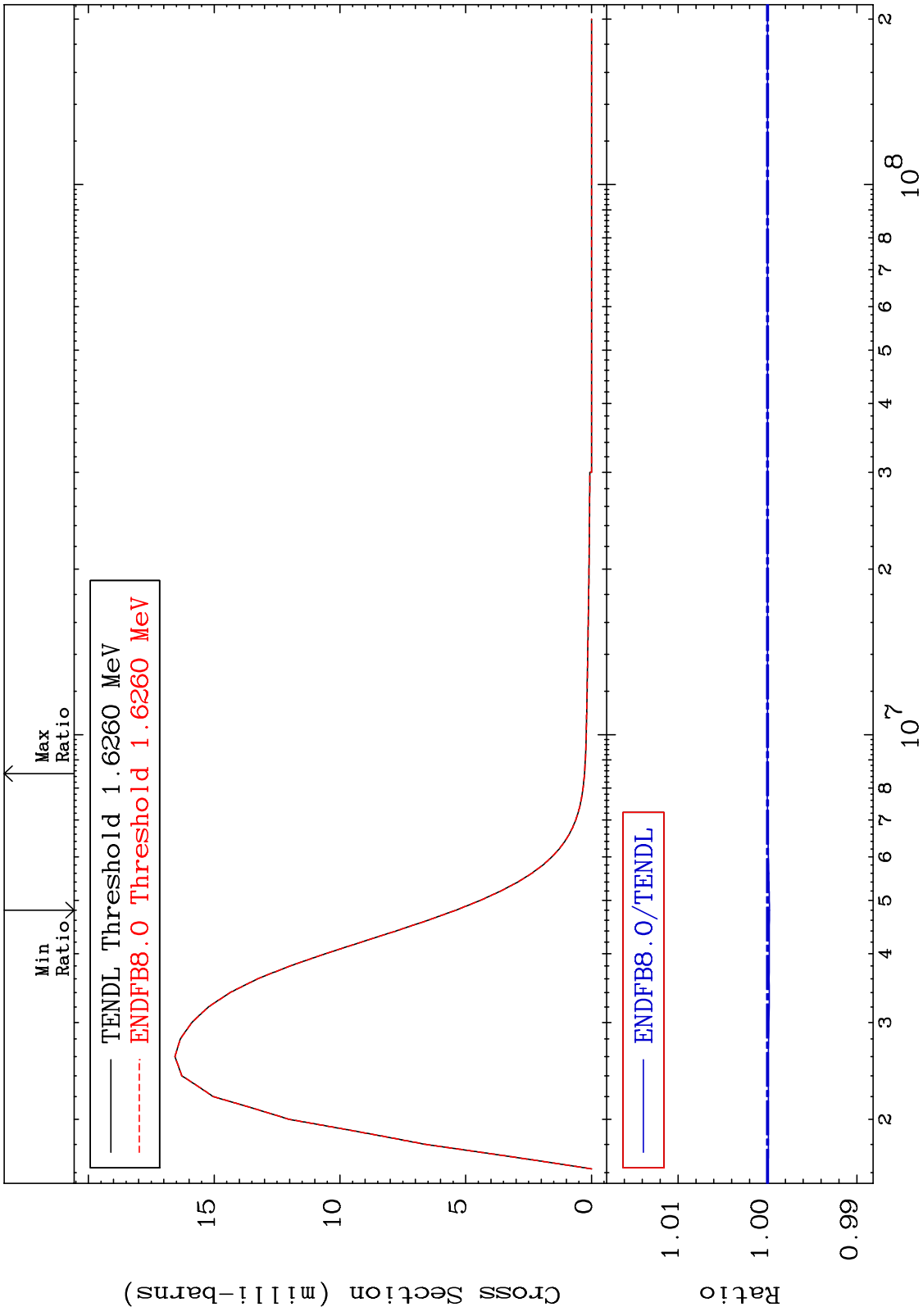
82-Pb-205
-0.028 To 0.003 %



MAT 8228 MT= 67 (n,n') Level Cross Section 82-Pb-205
 -0.022 To 0.000 %



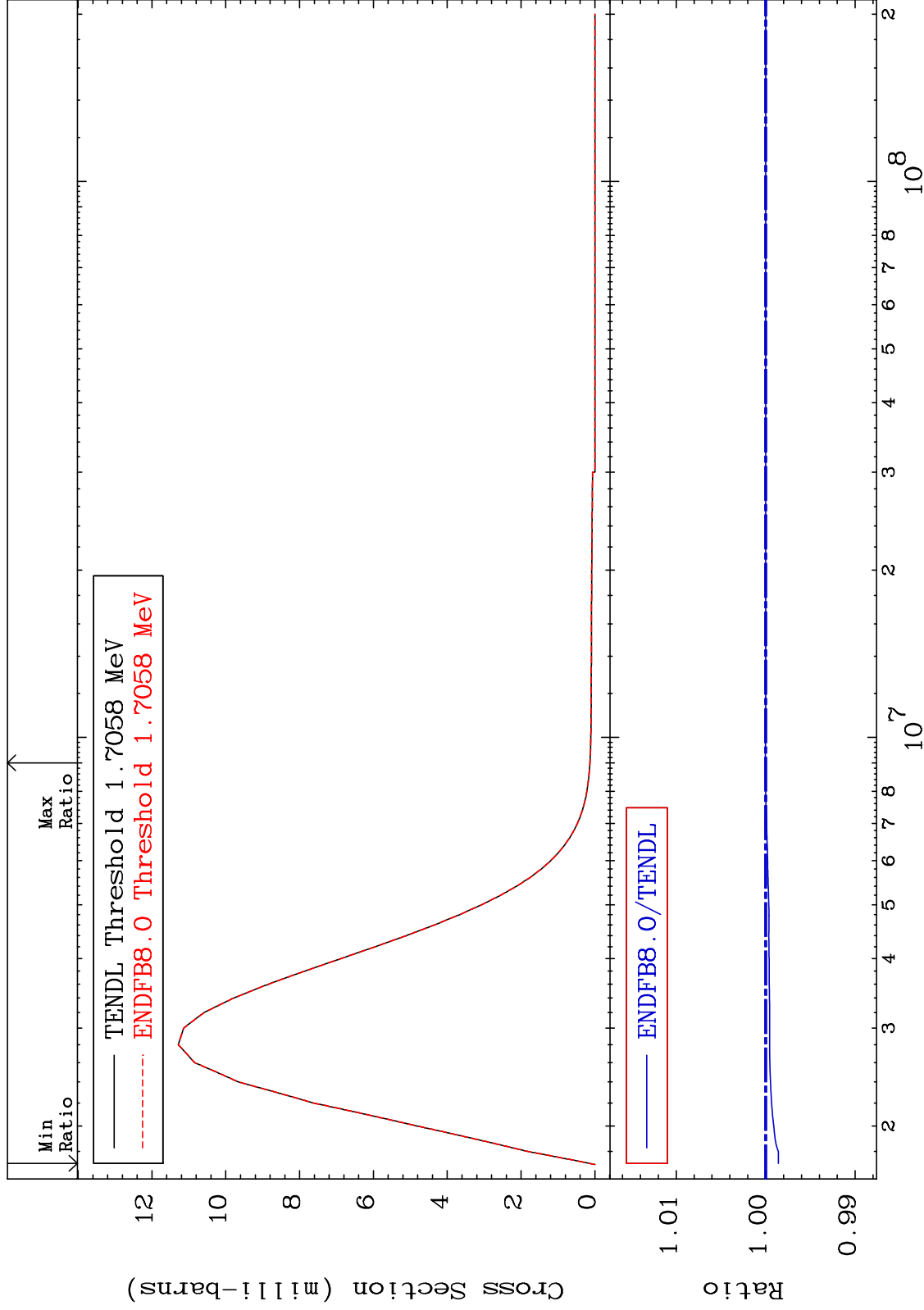
MAT 8228 MT= 68 (n,n') Level Cross Section 82-Pb-205
 -0.024 To 0.002 %



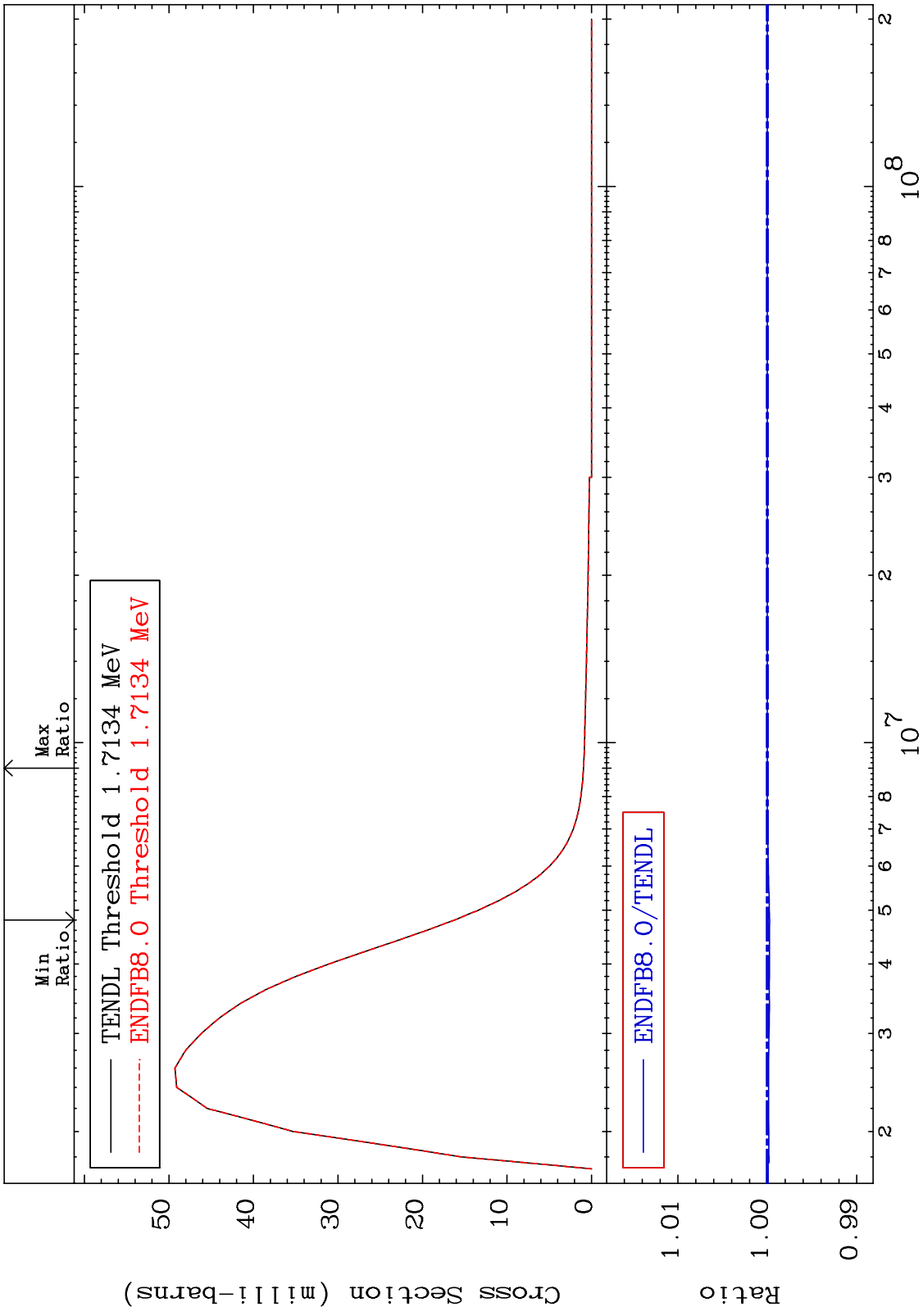
MAT 8228

MT= 69 (n,n') Level
Cross Section

82-Pb-205
-0.142 To 0.004 %



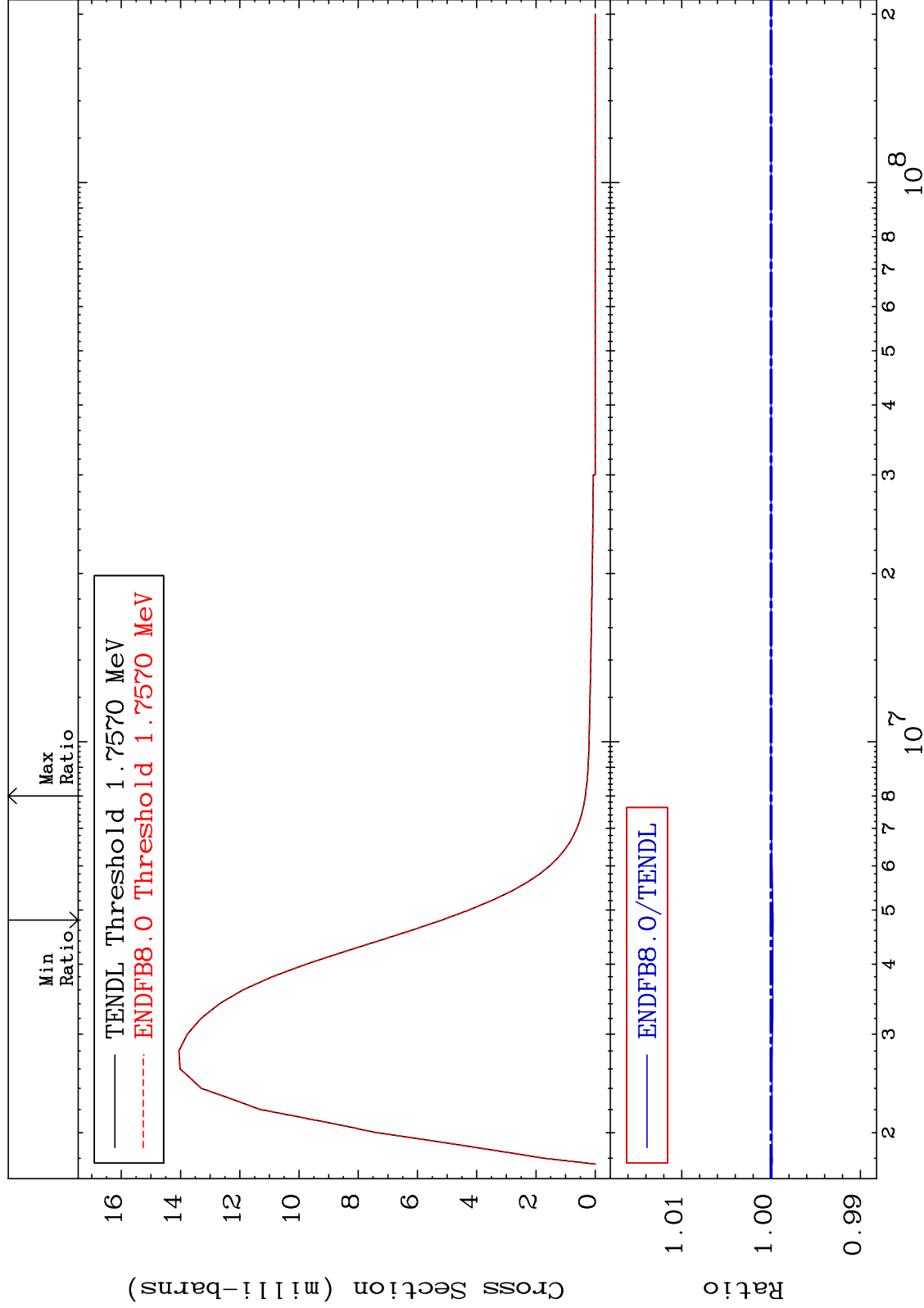
MAT 8228 MT= 70 (n,n') Level Cross Section 82-Pb-205
 -0.025 To 0.001 %



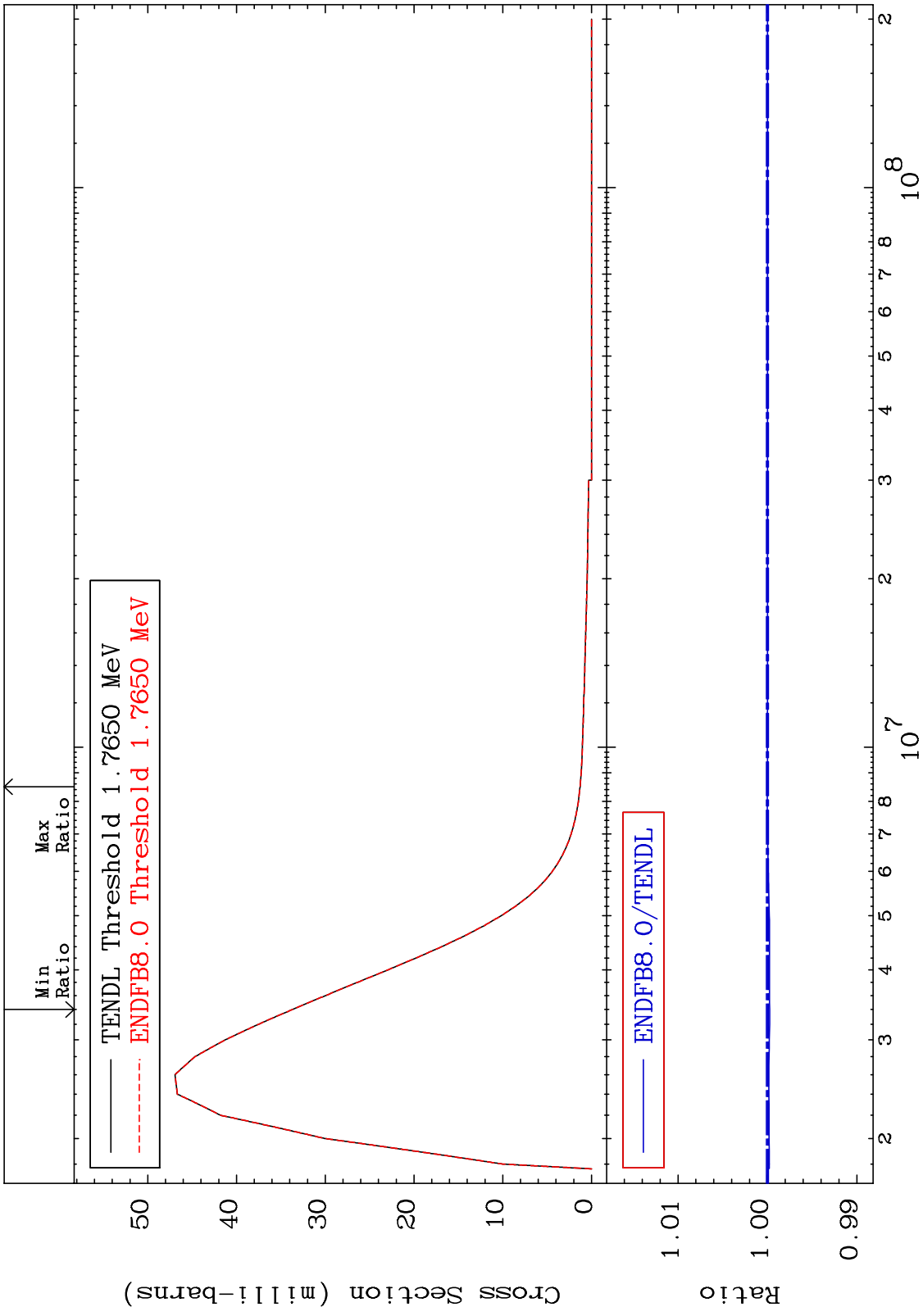
MAT 8228

MT= 71 (n,n') Level
Cross Section

82-Pb-205
-0.024 To 0.002 %



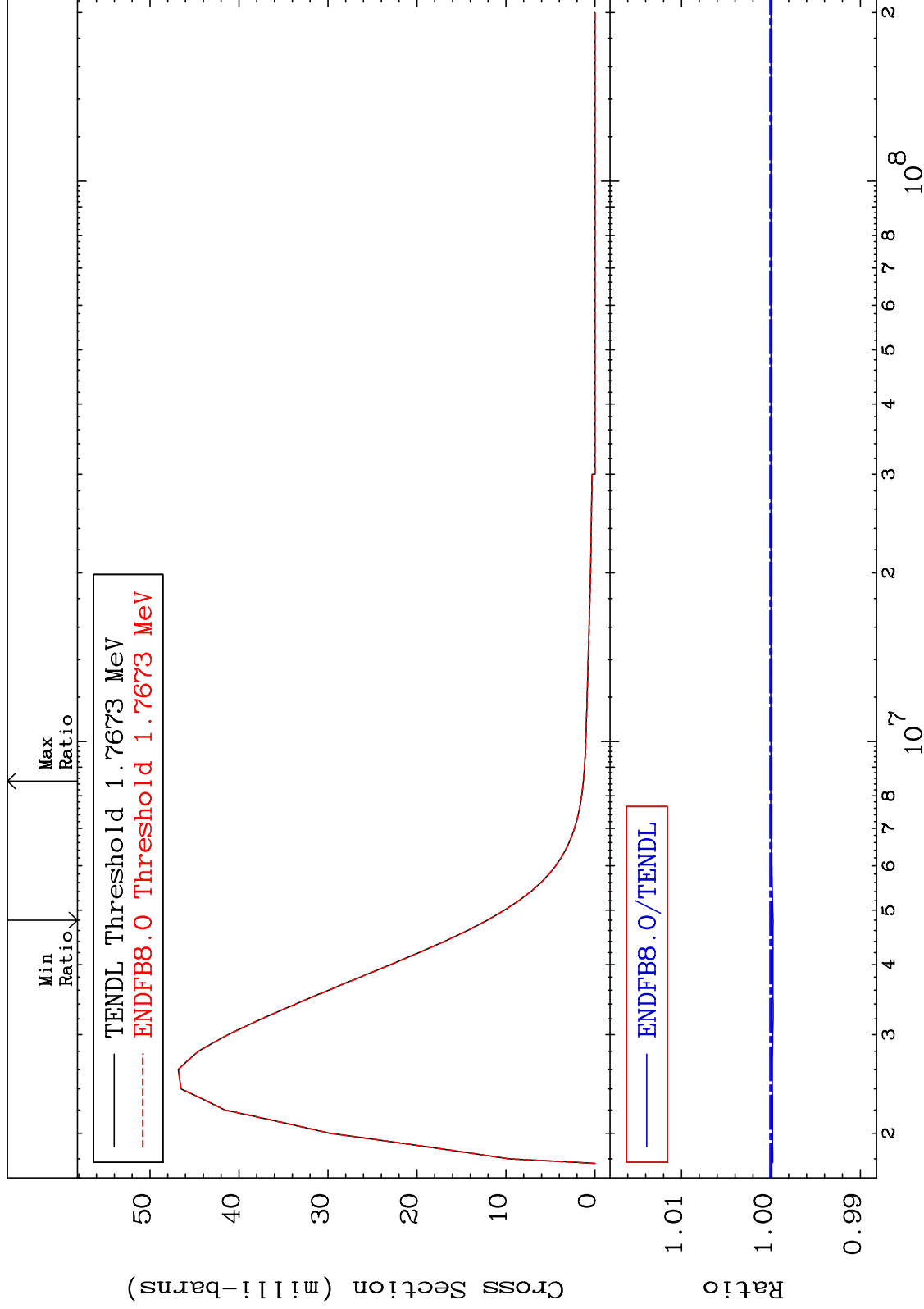
MAT 8228 MT= 72 (n,n') Level Cross Section 82-Pb-205
 -0.025 To 0.002 %



MAT 8228

MT= 73 (n,n') Level
Cross Section

82-Pb-205
-0.025 To 0.002 %

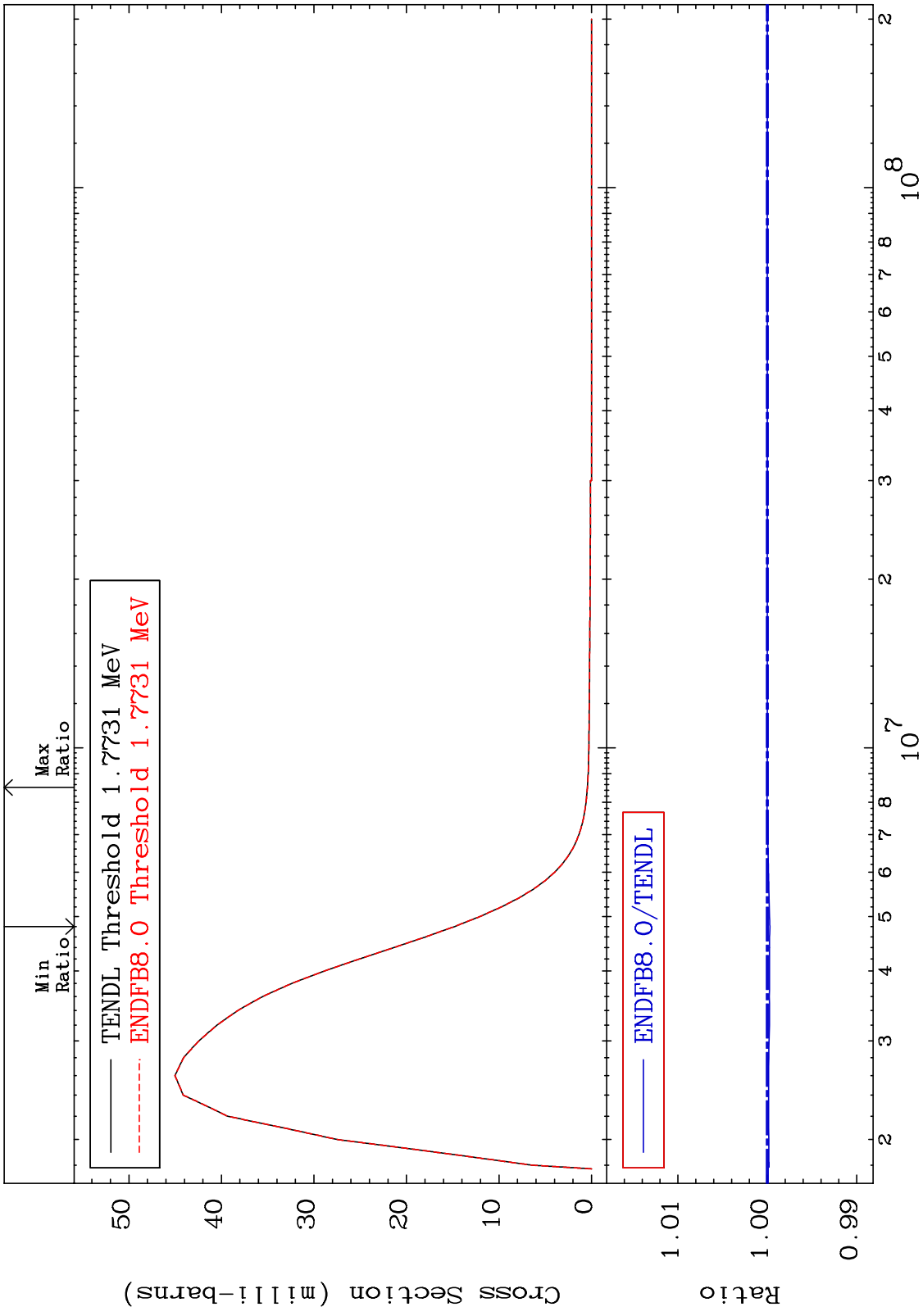


40

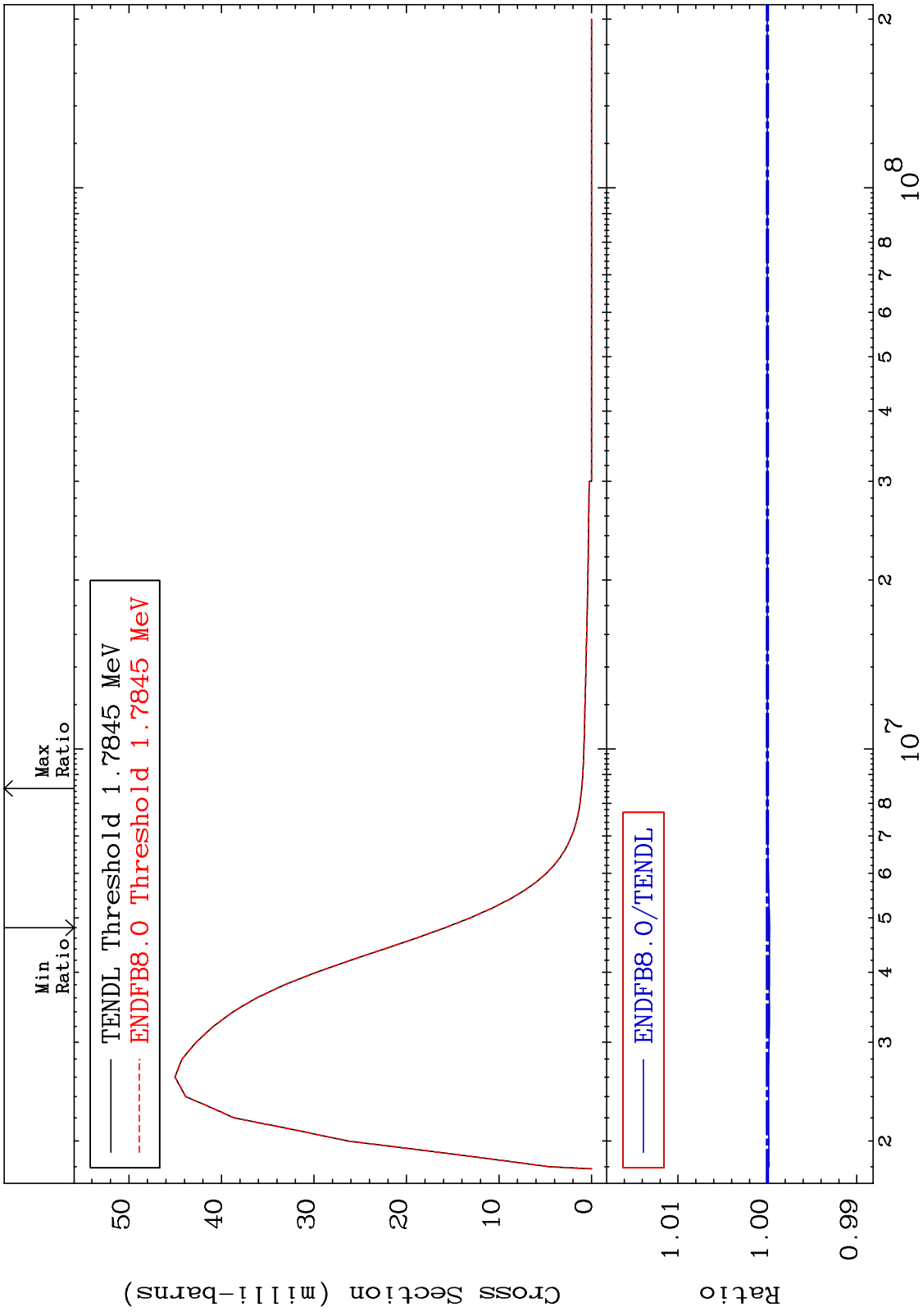
Incident Energy (eV)

82-Pb-205

MAT 8228 MT= 74 (n,n') Level Cross Section 82-Pb-205
 -0.028 To 0.003 %



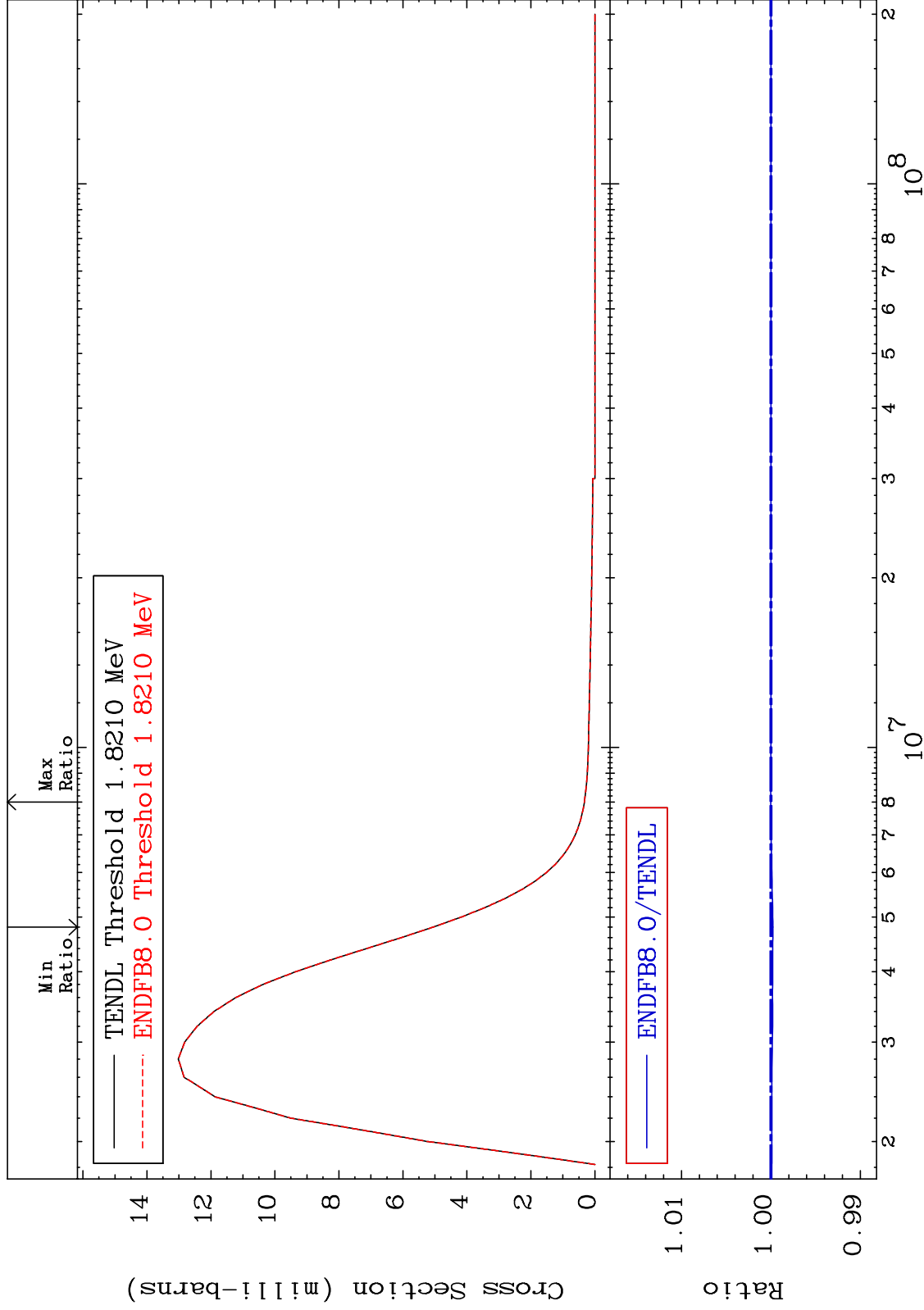
MAT 8228 MT= 75 (n,n') Level Cross Section 82-Pb-205
 -0.025 To 0.002 %



MAT 8228

MT= 76 (n,n') Level
Cross Section

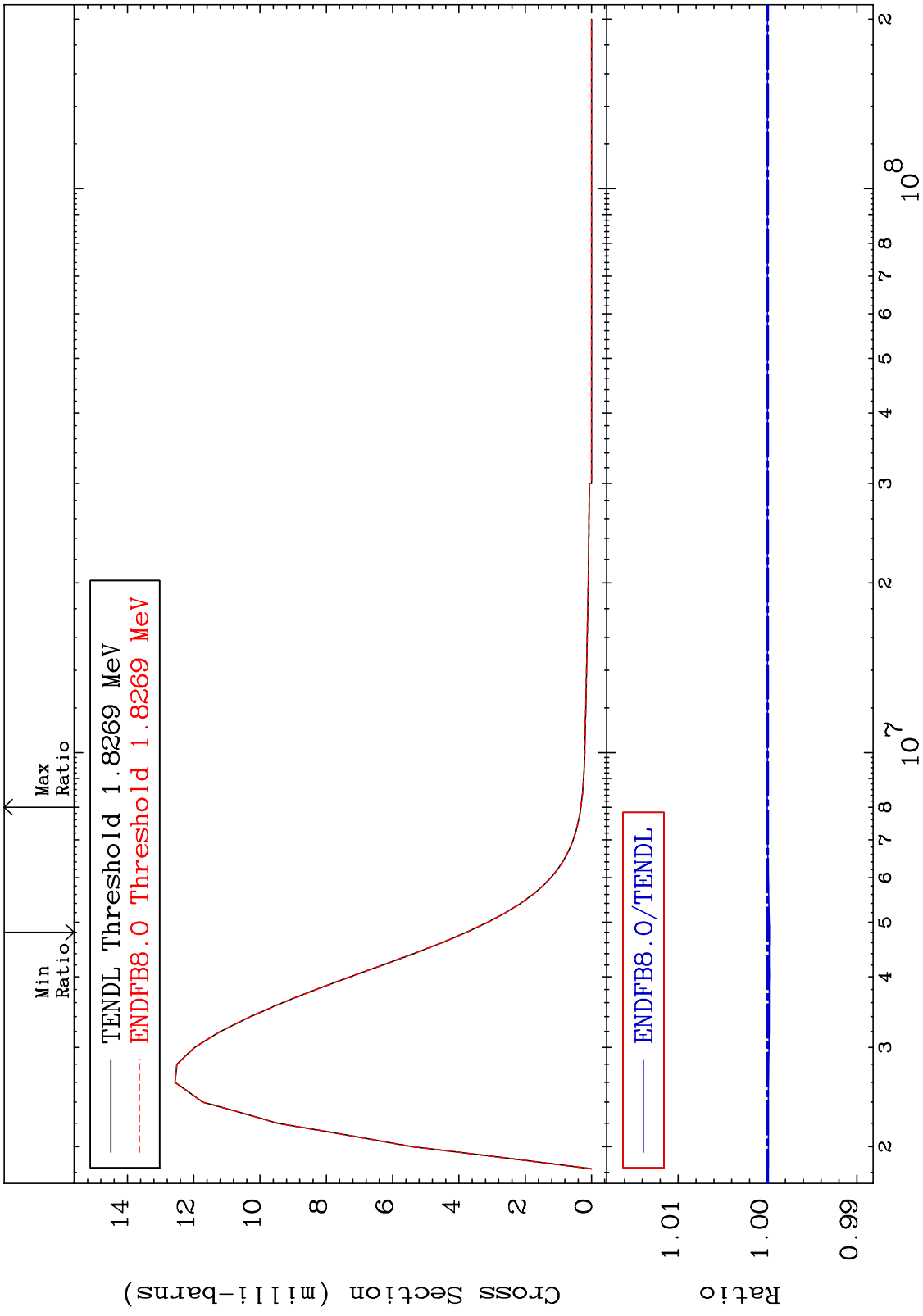
82-Pb-205
-0.024 To 0.002 %



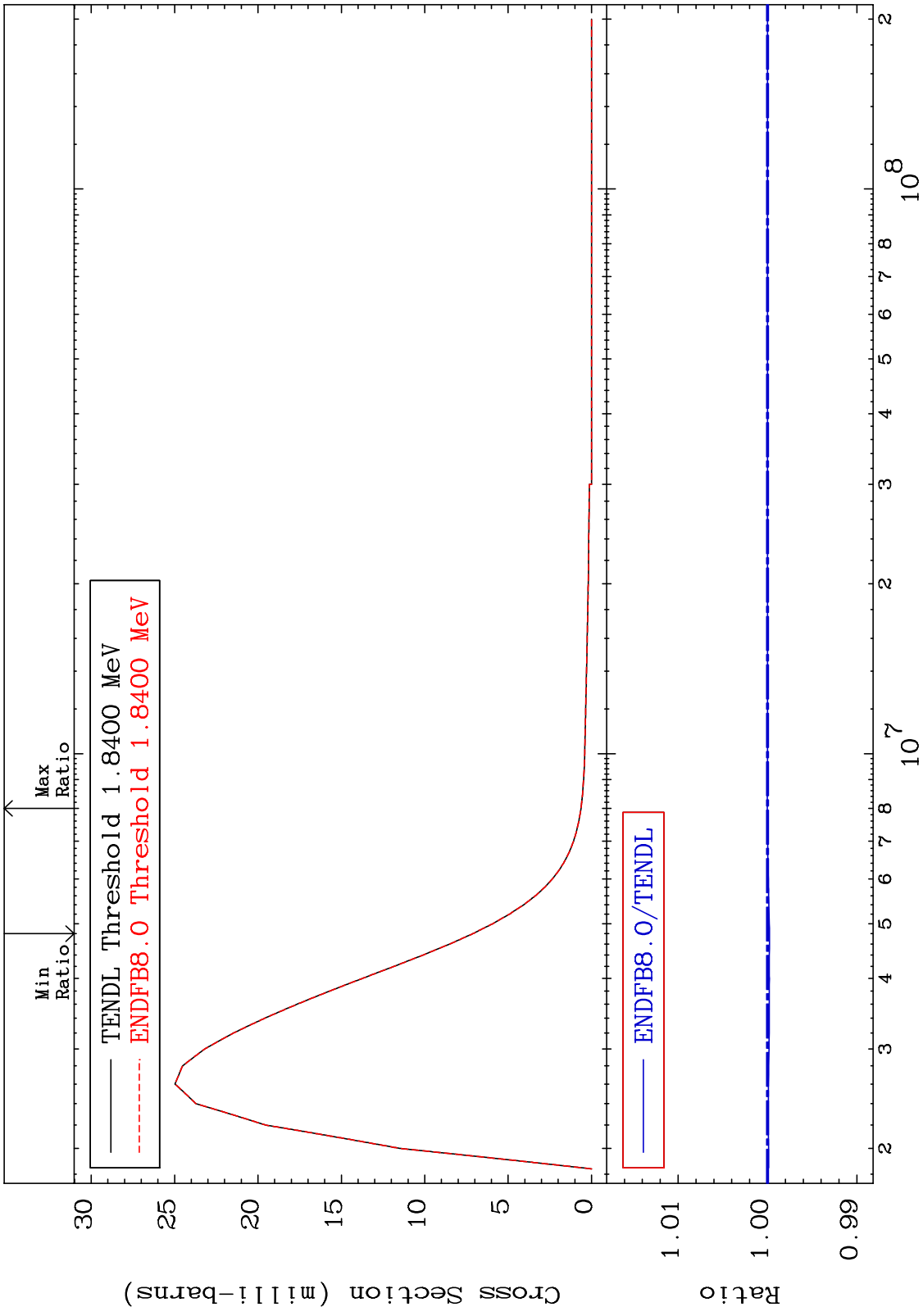
43

82-Pb-205

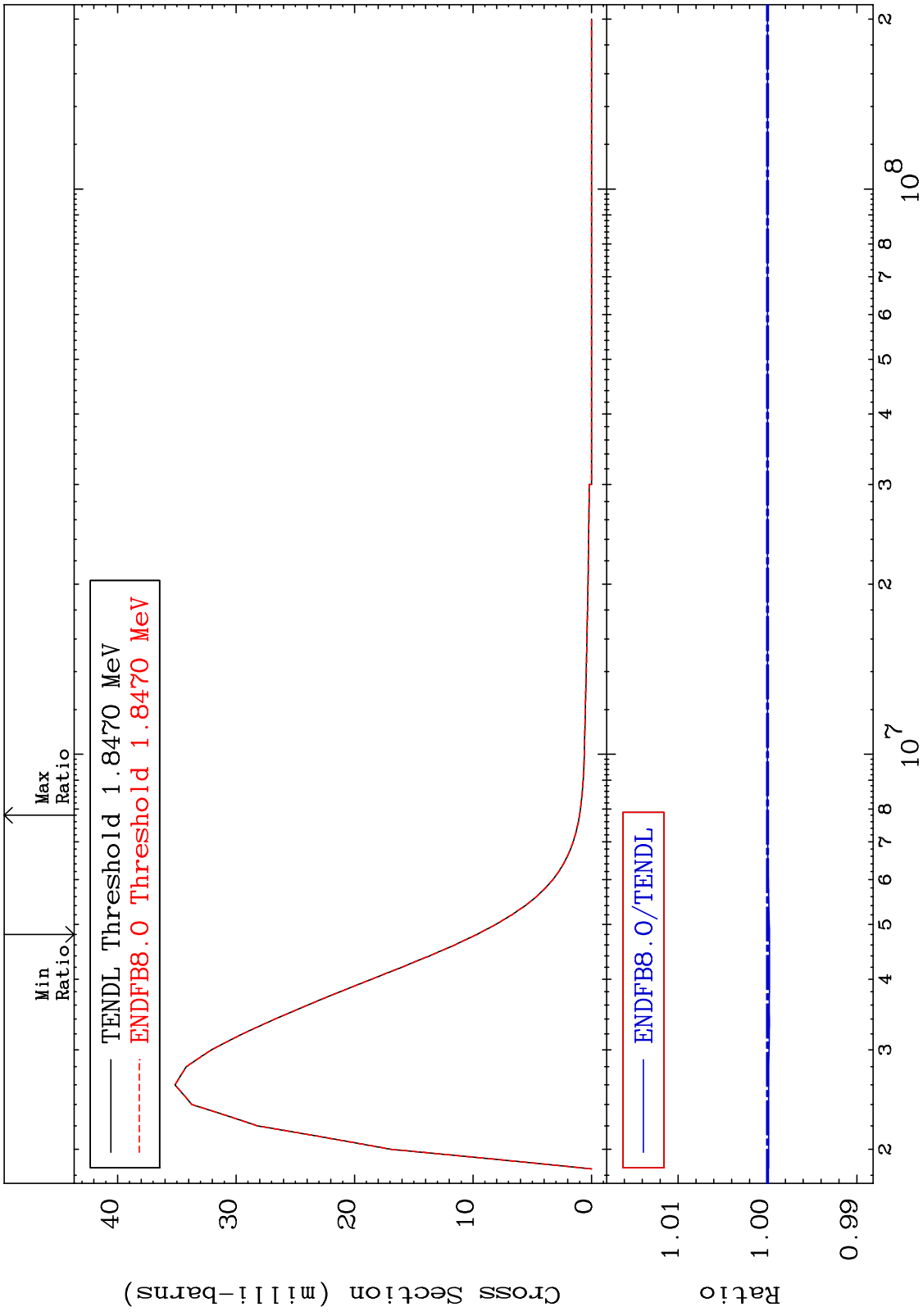
MAT 8228 MT= 77 (n,n') Level Cross Section 82-Pb-205
 -0.023 To 0.002 %



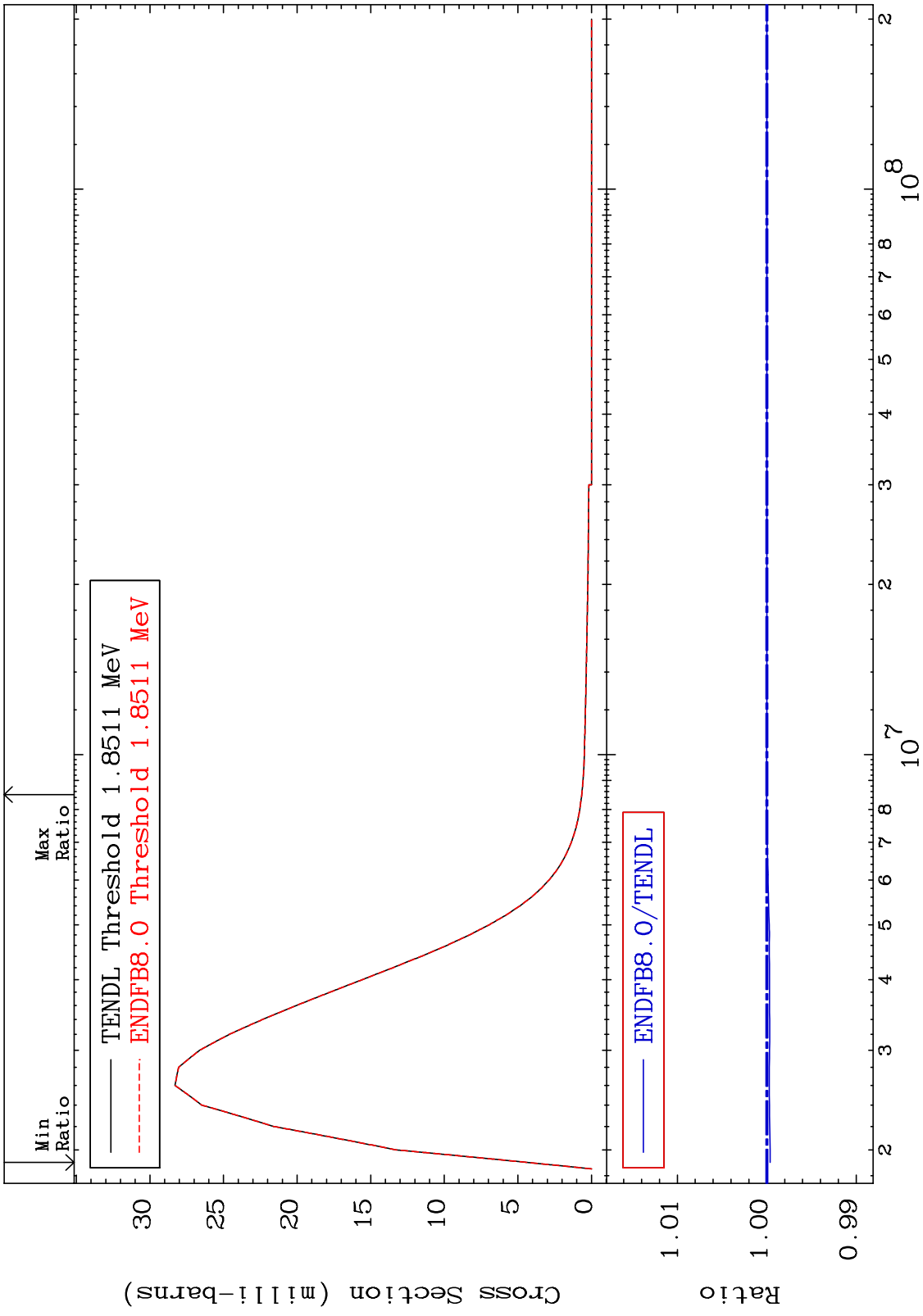
MAT 8228 MT= 78 (n,n') Level Cross Section 82-Pb-205
 -0.023 To 0.002 %



MAT 8228 MT= 79 (n,n') Level Cross Section 82-Pb-205
 -0.023 To 0.002 %



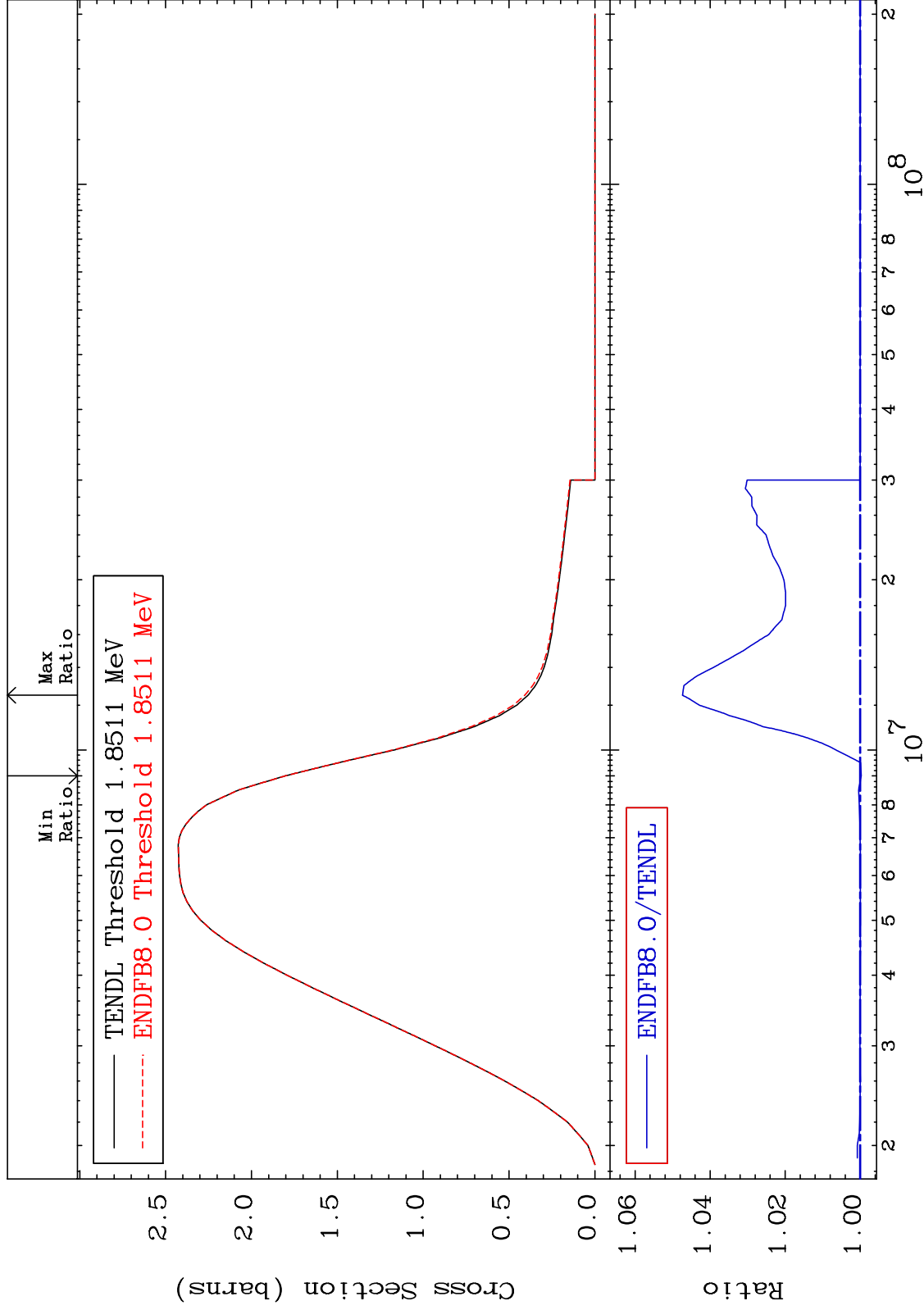
MAT 8228 MT= 80 (n,n') Level Cross Section 82-Pb-205
 -0.038 To 0.002 %



MAT 8228

(n, n') Continuum
Cross Section

82-Pb-205
-0.030 To 4.738 %



48

Incident Energy (eV)

82-Pb-205

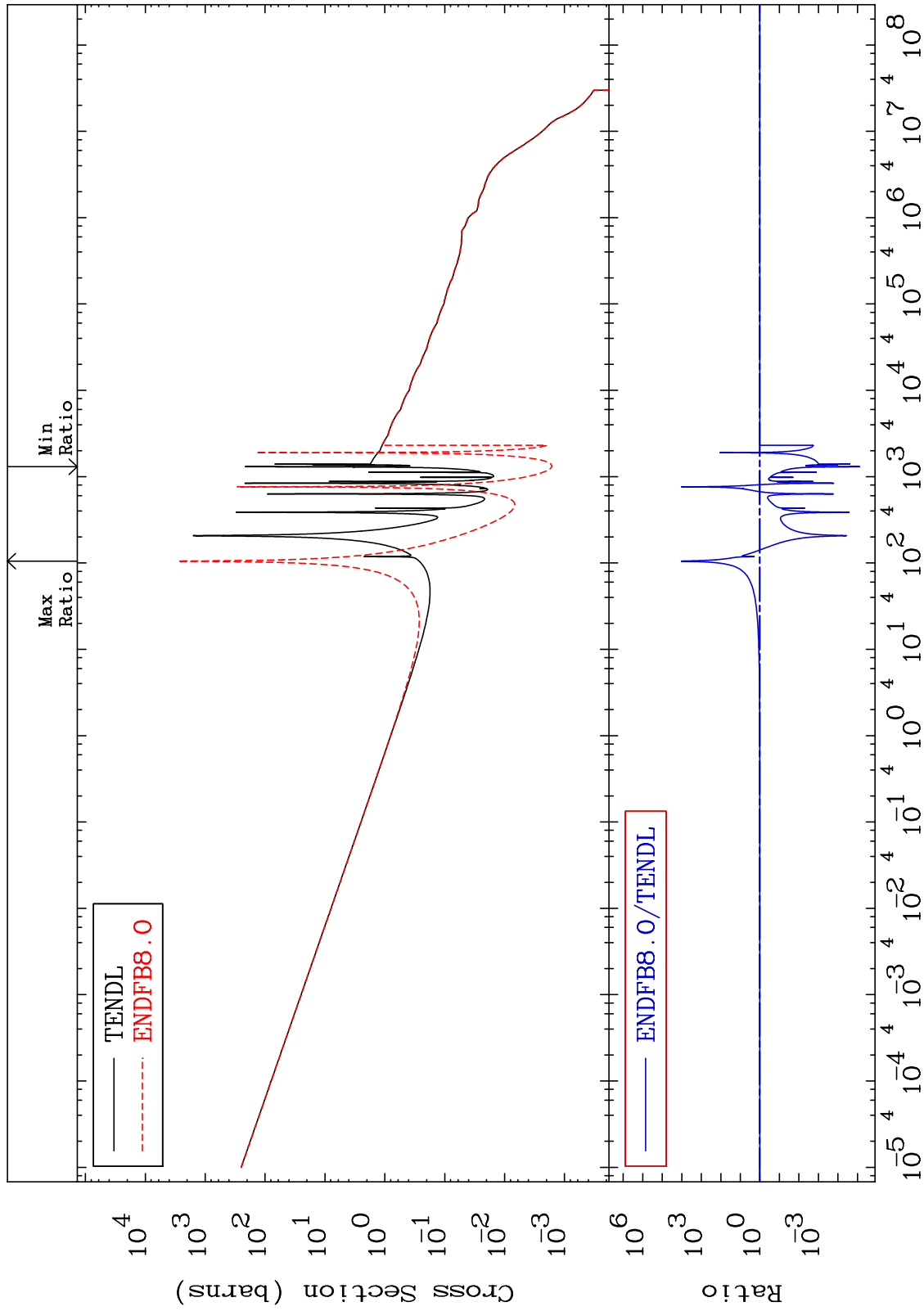
MAT 8228

82-Pb-205

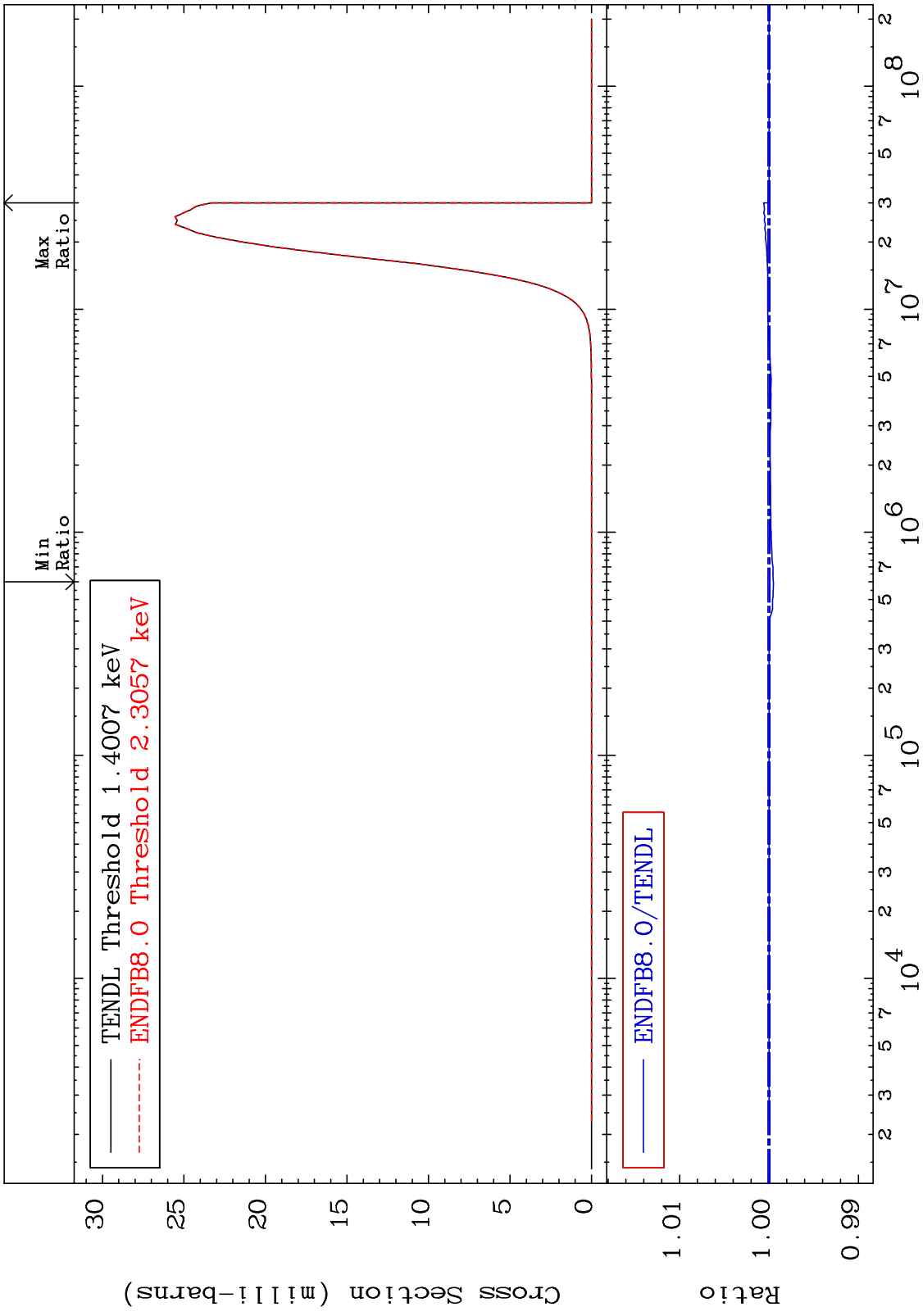
(n, γ)

Cross Section

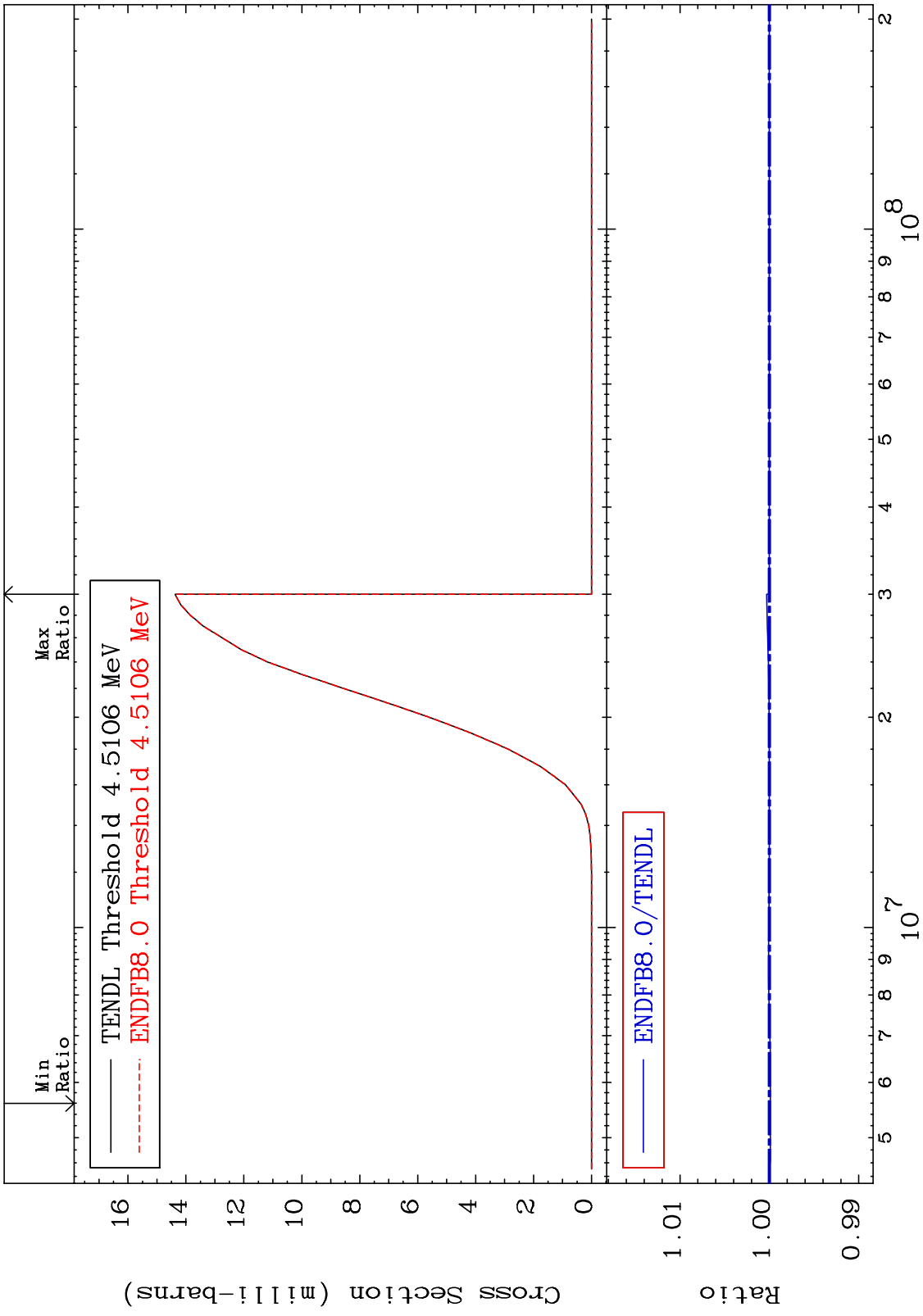
-100.0 To 9999. %



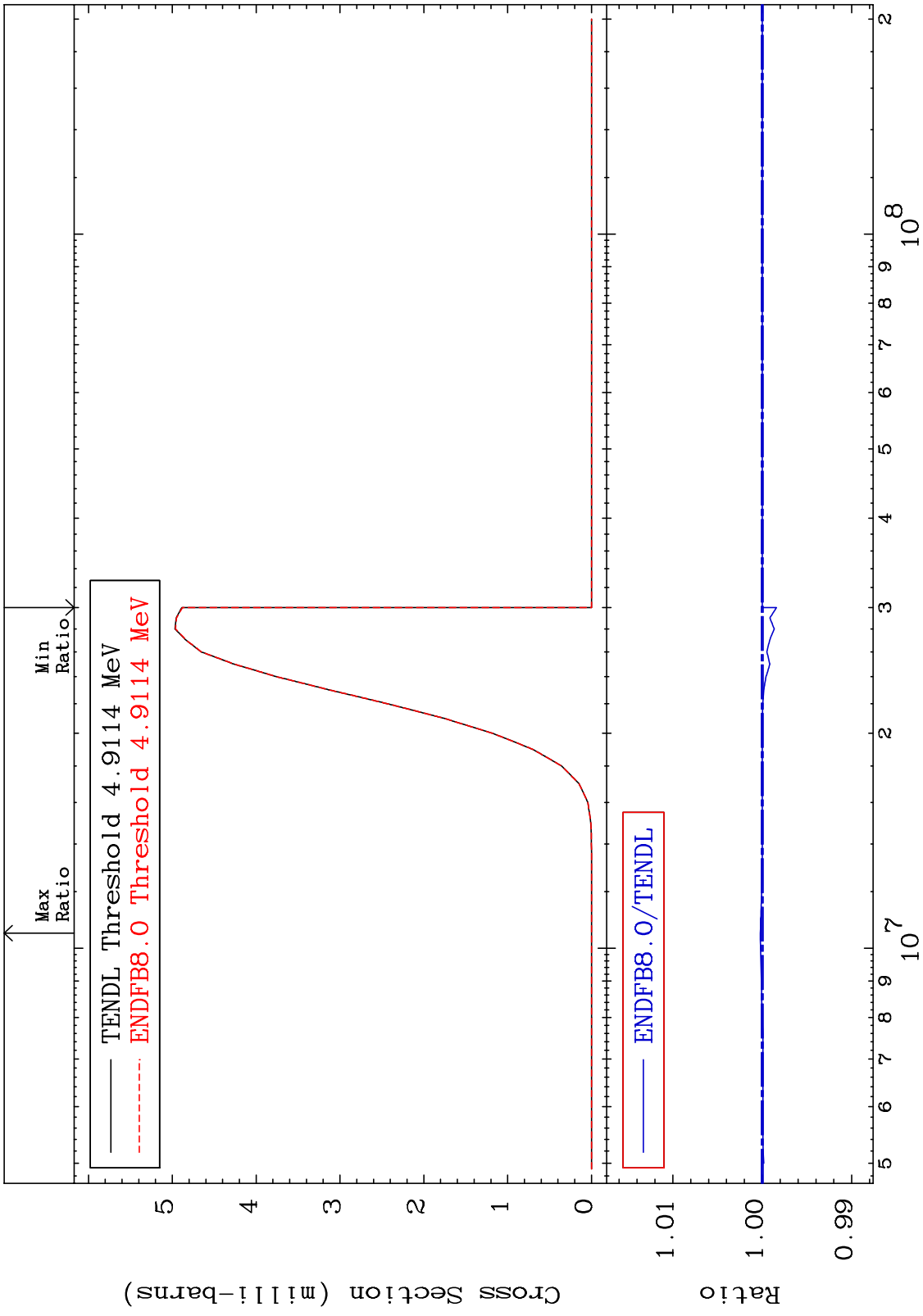
MAT 8228 (n,p) Cross Section 82-Pb-205
 -0.050 To 0.061 %



MAT 8228 (n,d) Cross Section 82-Pb-205
 -0.011 To 0.031 %

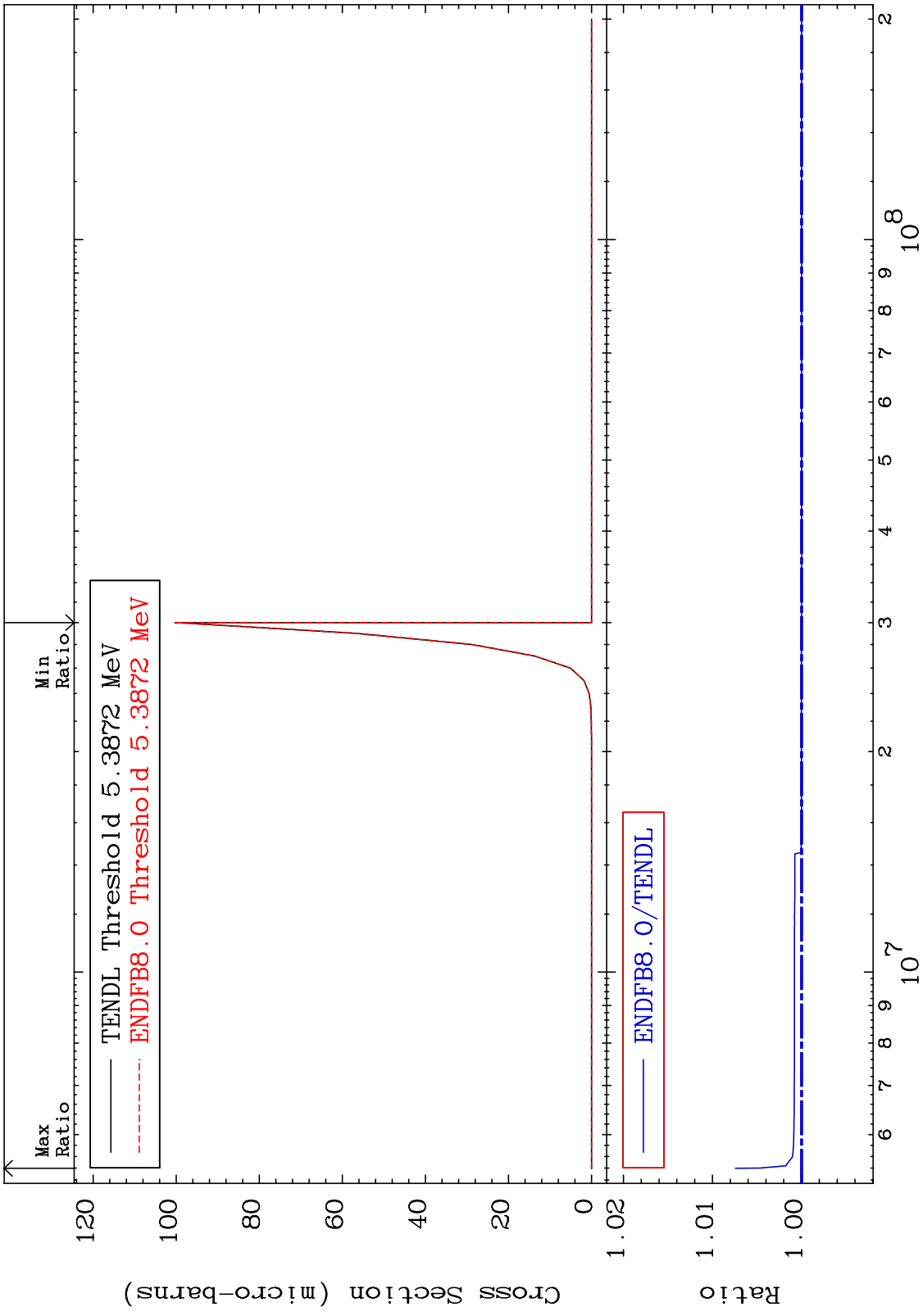


MAT 8228 (n,t) Cross Section 82-Pb-205 -0.159 To 0.021 %



52 82-Pb-205

MAT 8228 (n, He-3) Cross Section 82-Pb-205 To 0.744 %



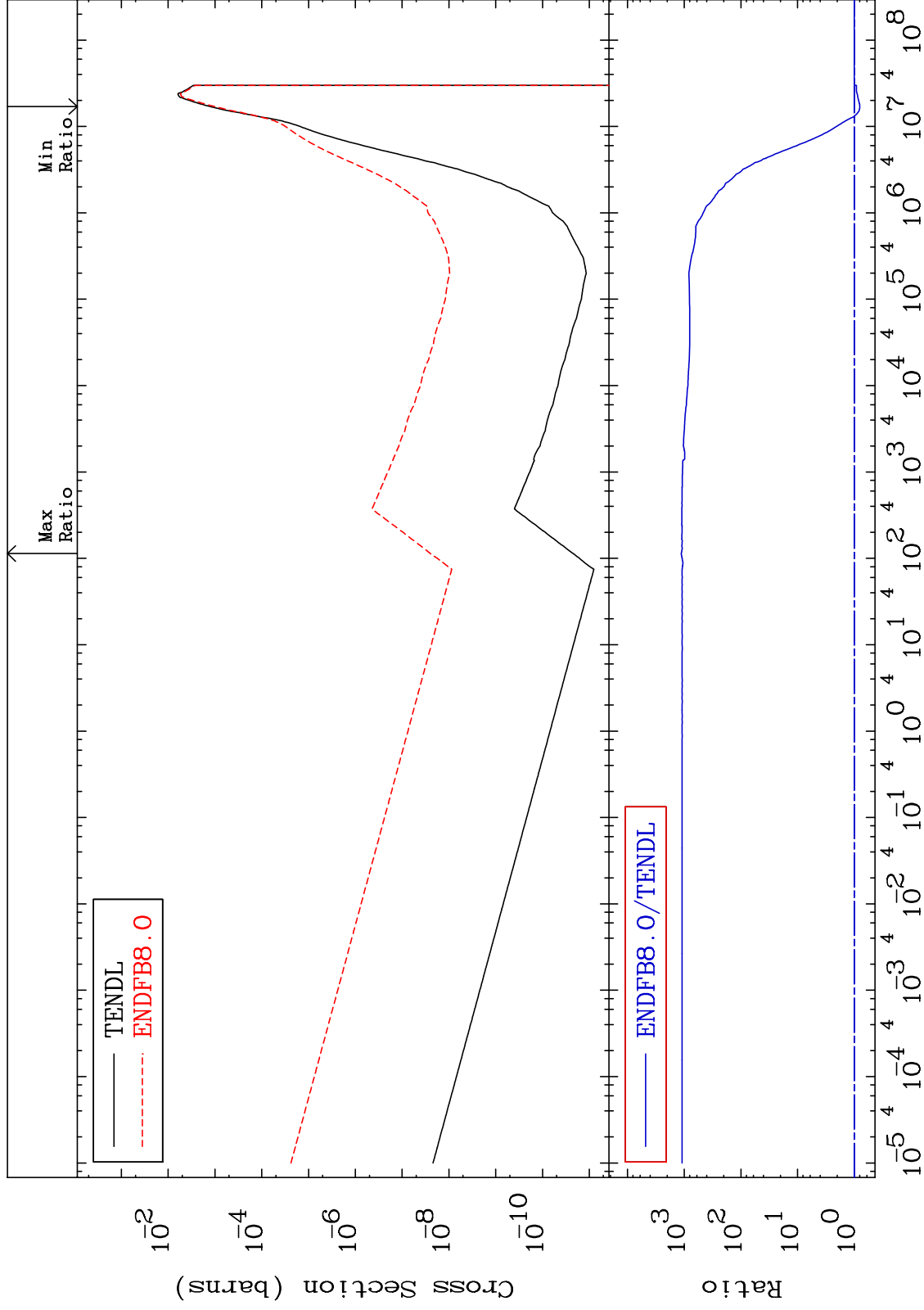
MAT 8228

(n, α)

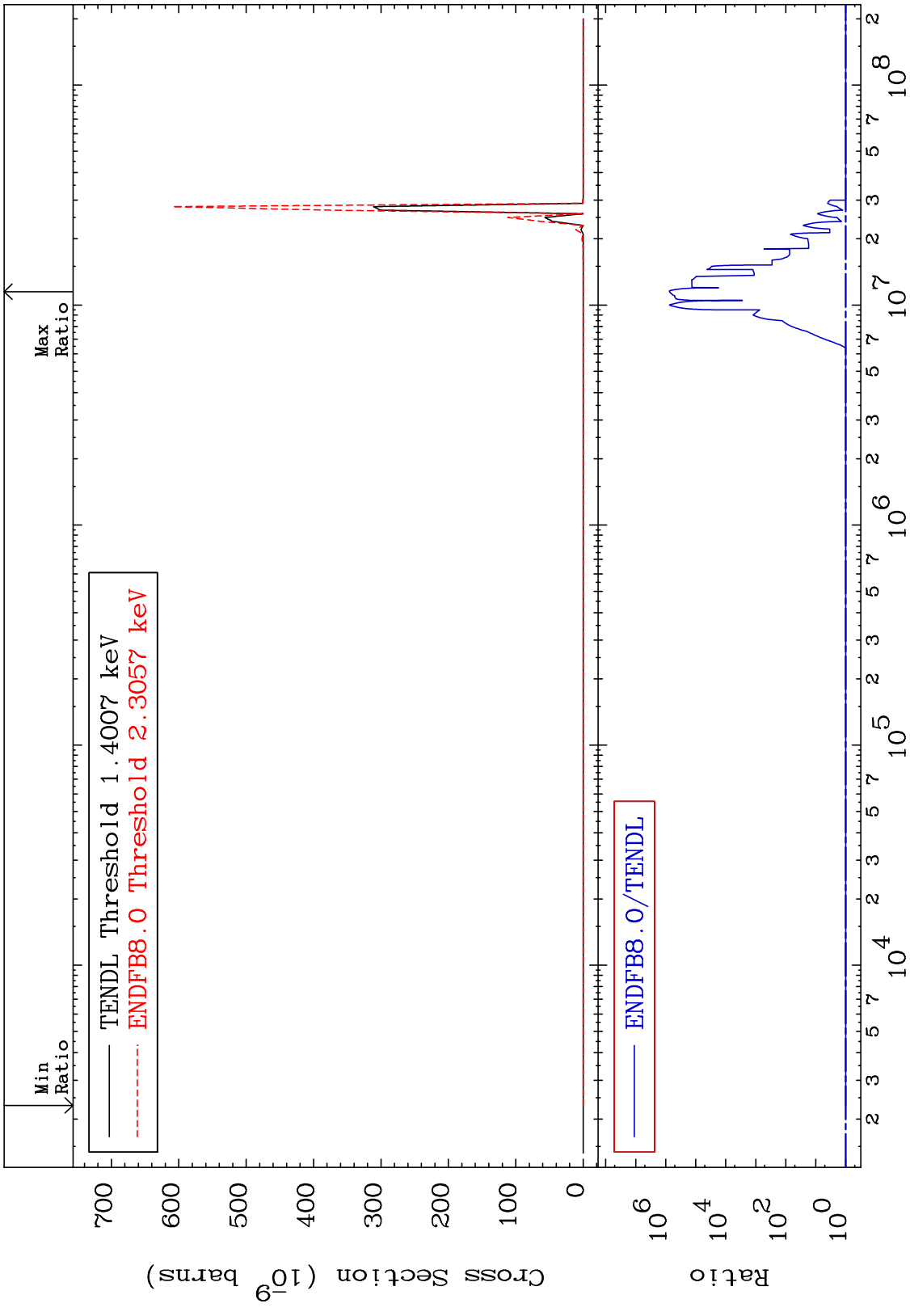
82-Pb-205

Cross Section

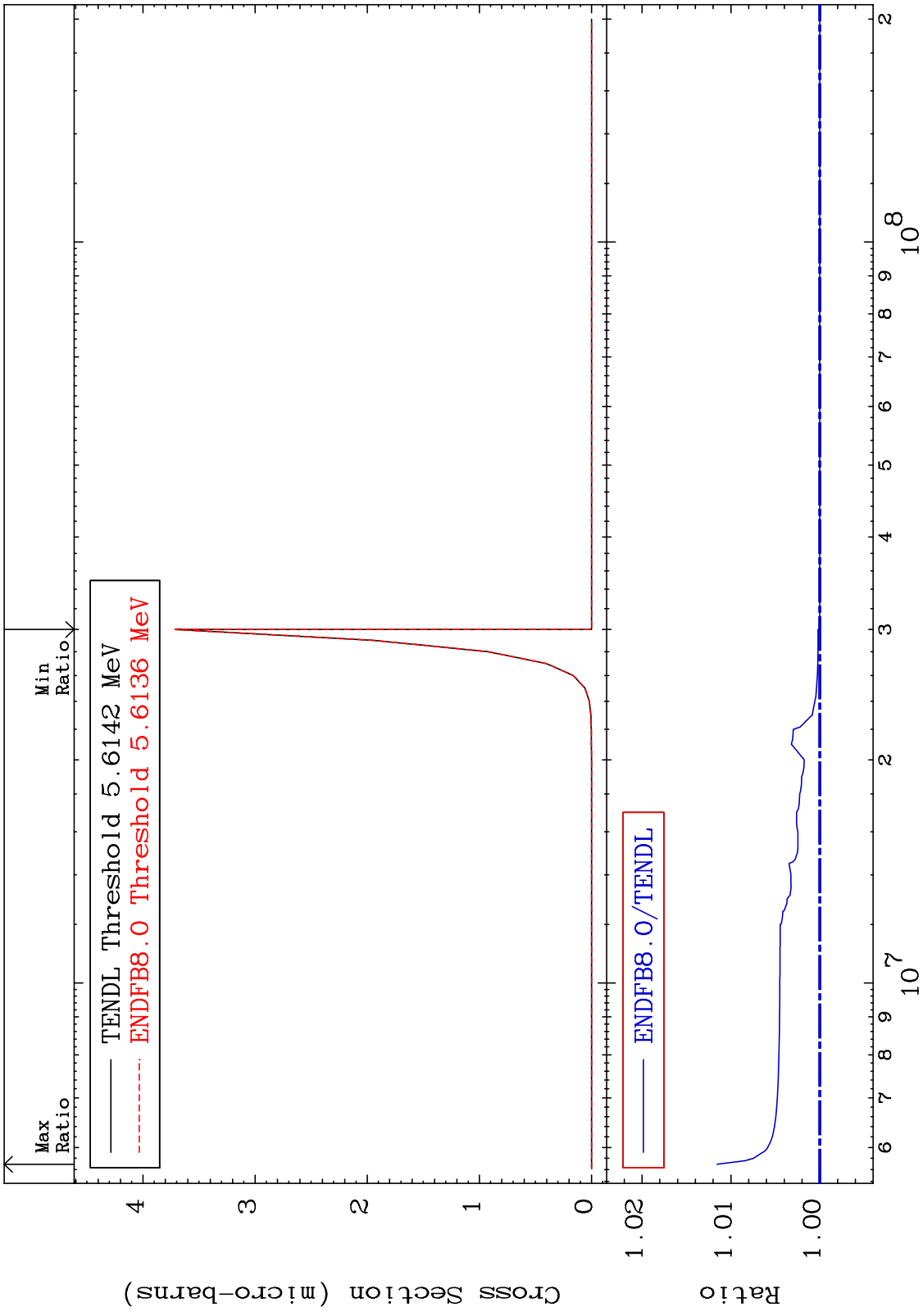
-20.04 To 9999. %

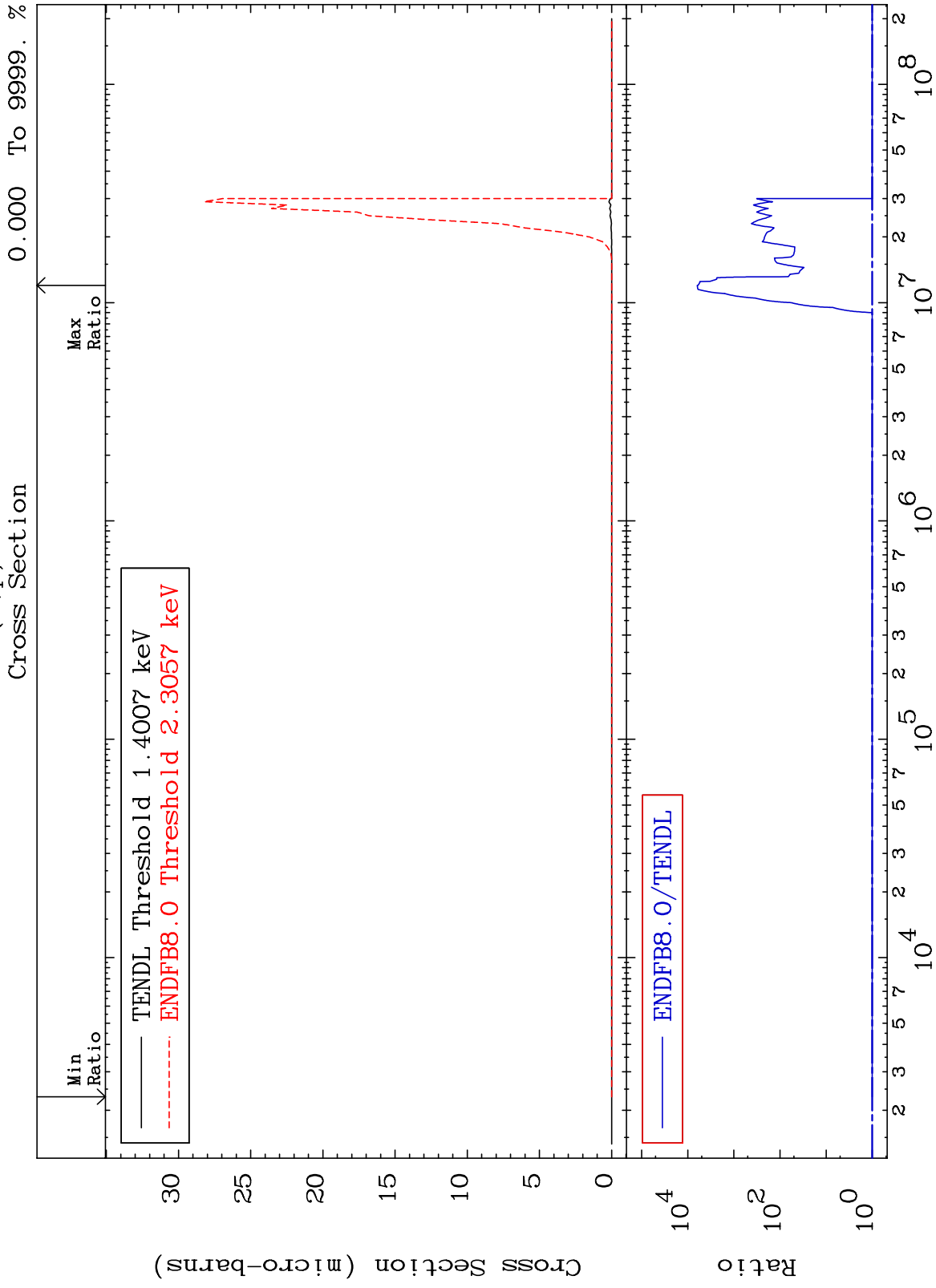


MAT 8228 (n,2α) Cross Section 82-Pb-205 To 9999. %

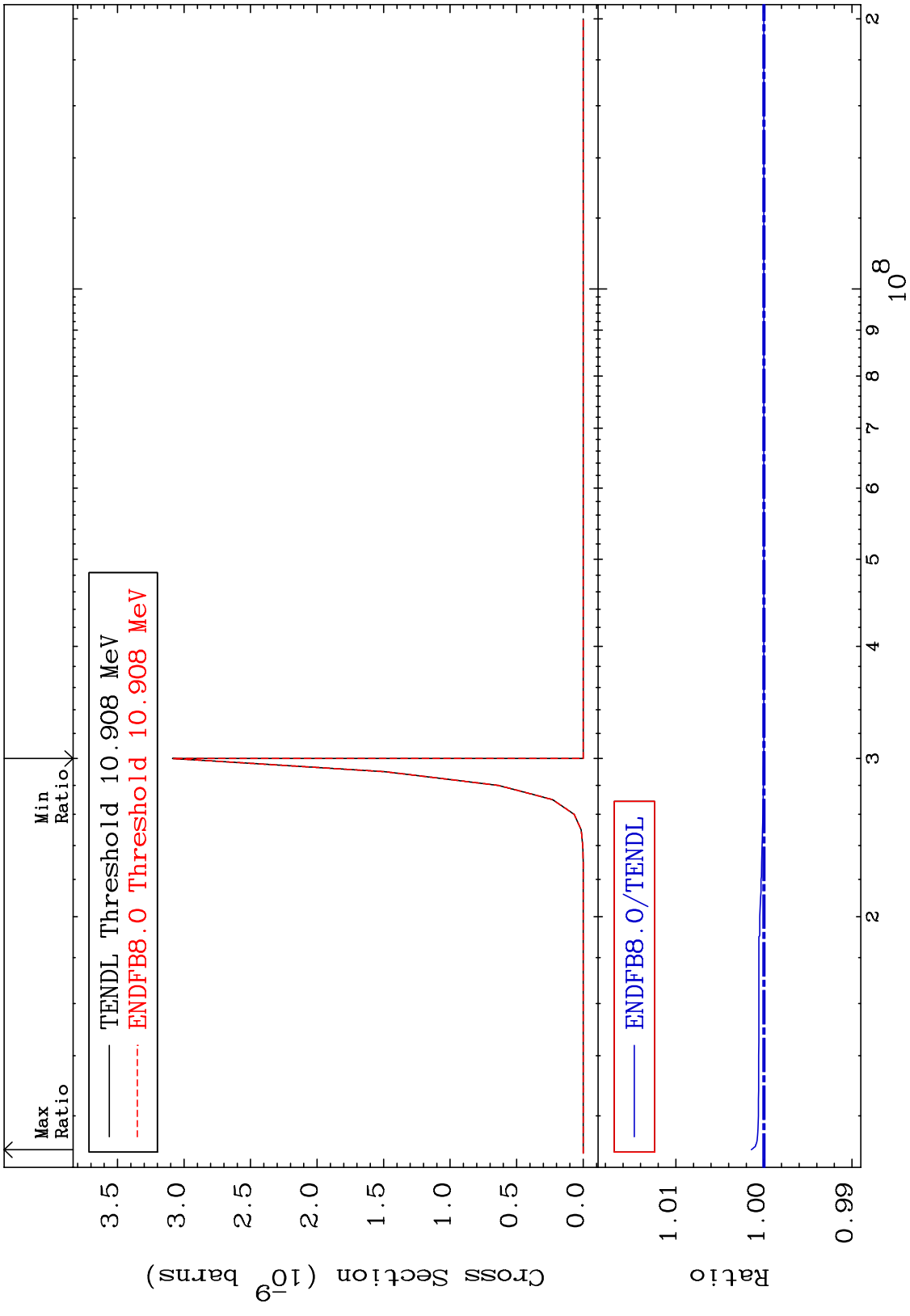


MAT 8228 (n,2p) Cross Section 82-Pb-205 To 1.156 %

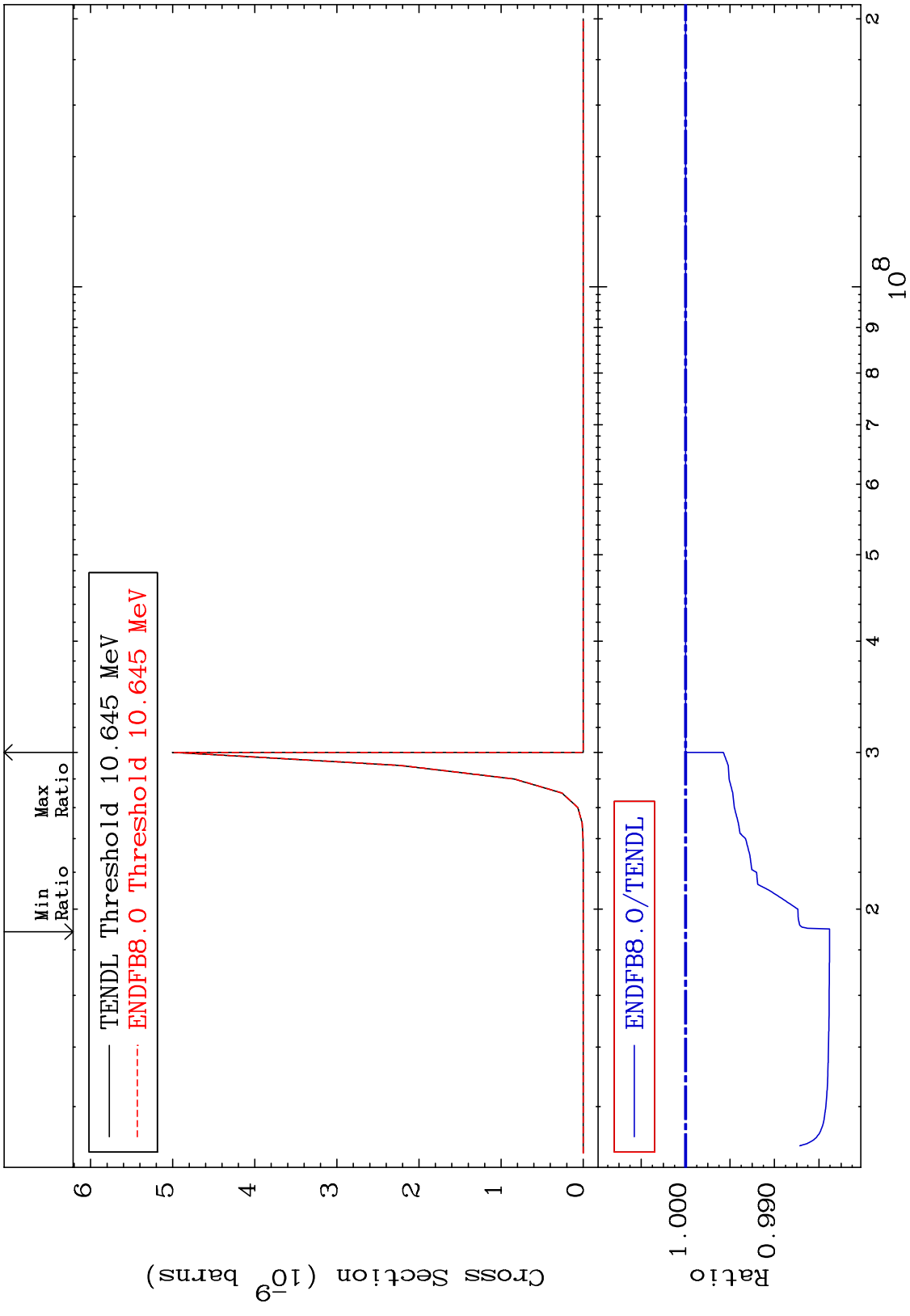




MAT 8228 (n,p) d 82-Pb-205
 Cross Section 0.000 To 0.143 %



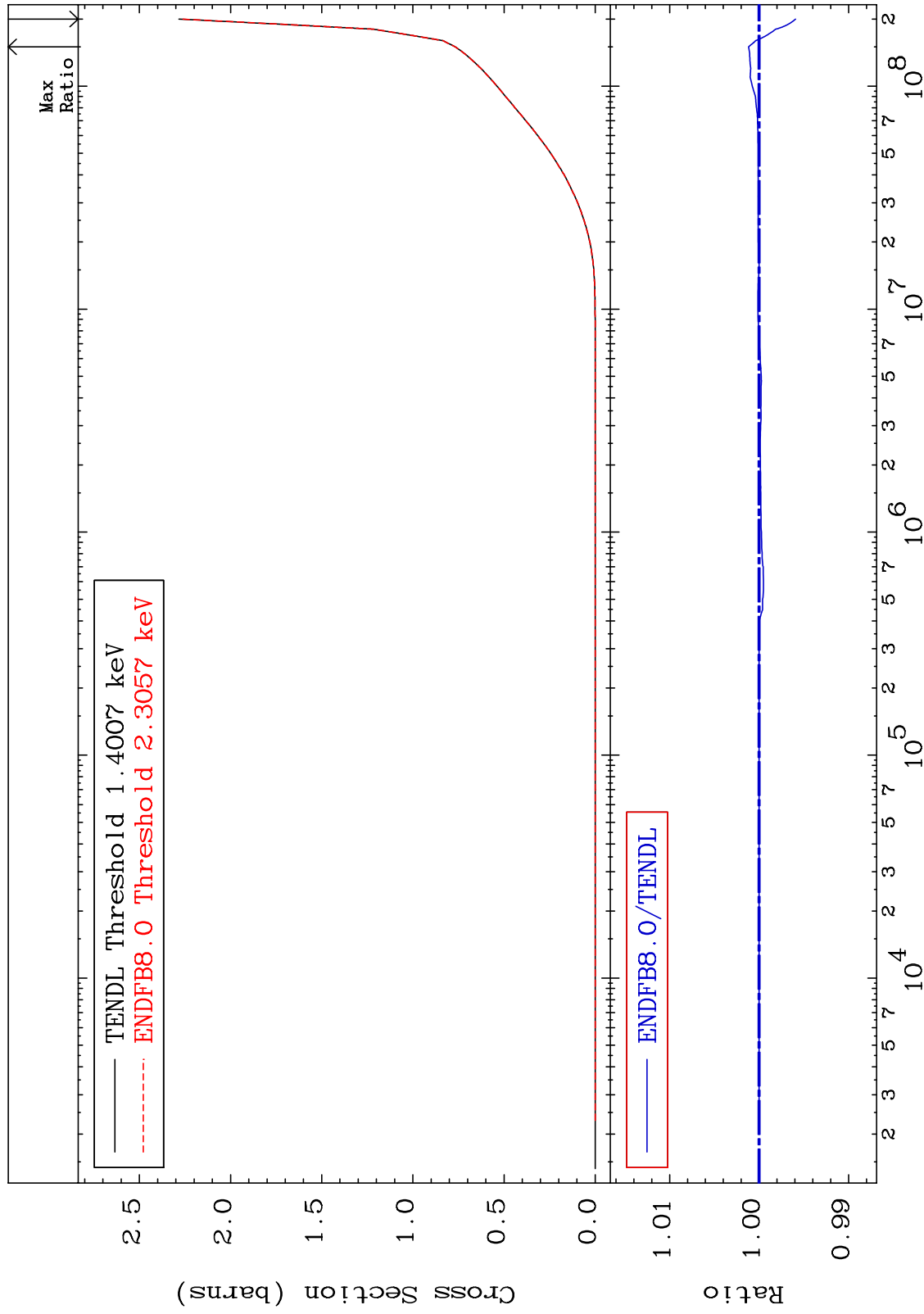
MAT 8228 (n,p) t 82-Pb-205
 Cross Section -1.621 To 0.000 %



MAT 8228

Hydrogen Production
Cross Section

82-Pb-205
-0.407 To 0.119 %



60

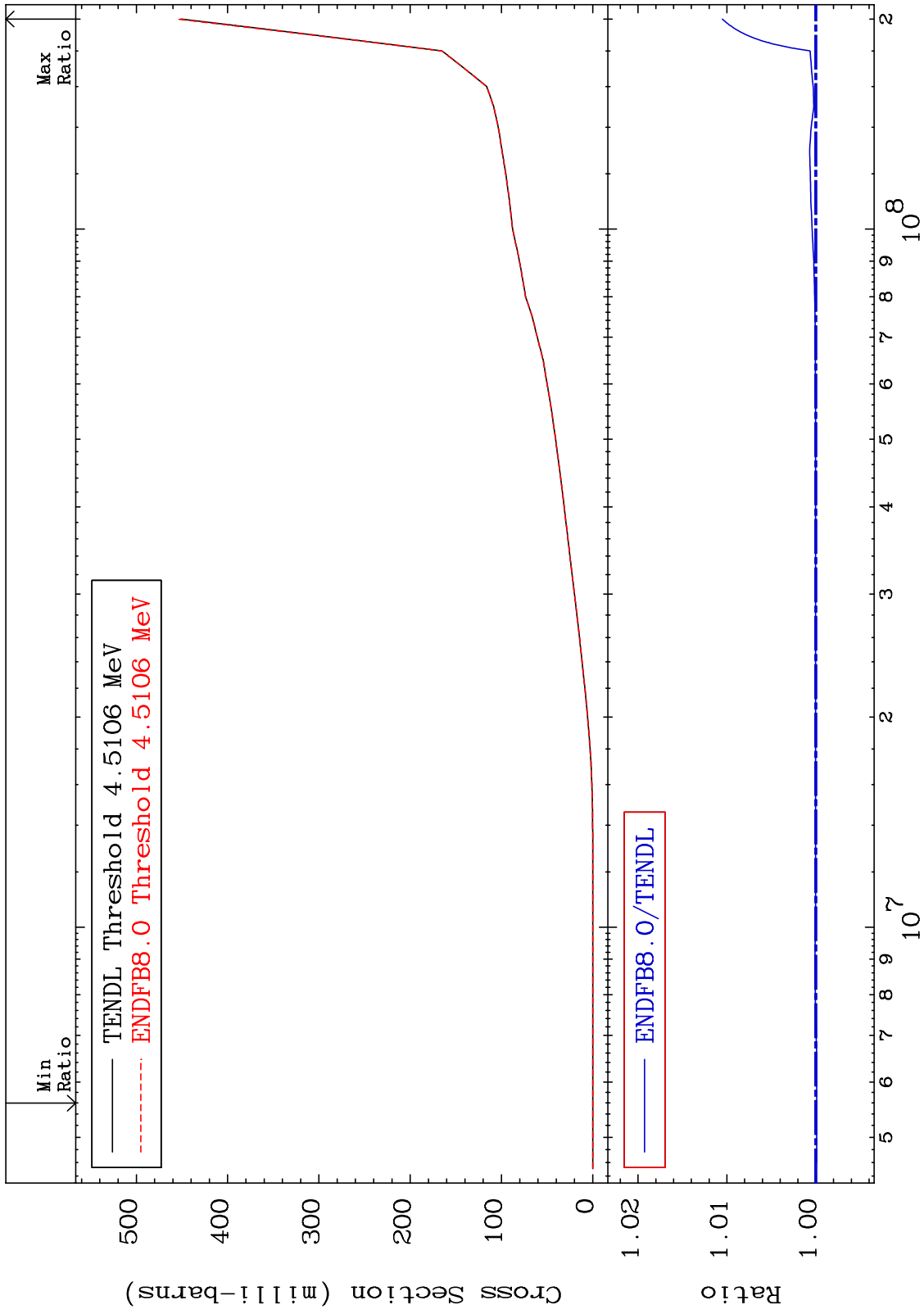
Incident Energy (eV)

82-Pb-205

MAT 8228

Deuterium Production
Cross Section

82-Pb-205
-0.011 To 1.051 %



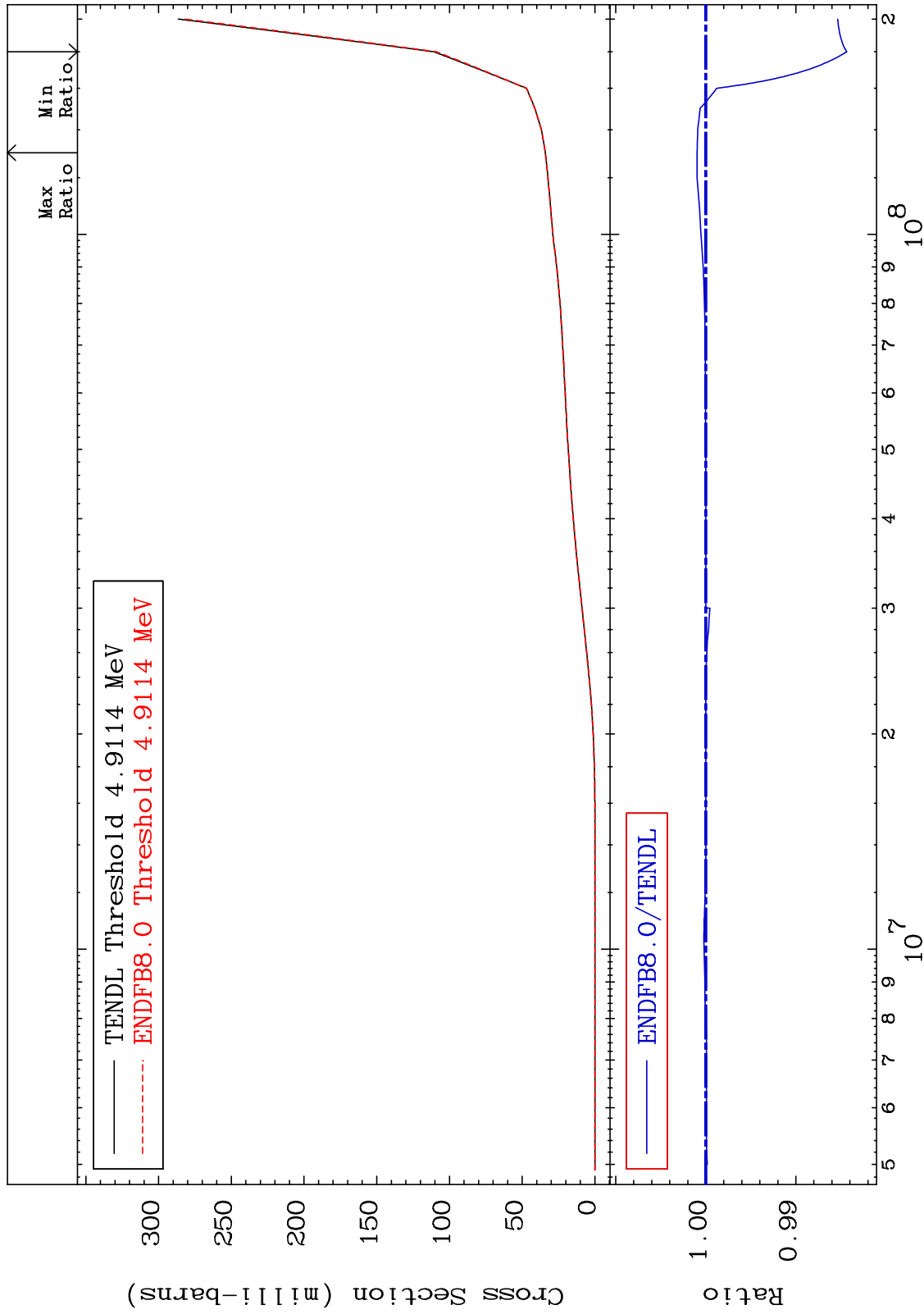
61

82-Pb-205

MAT 8228

Tritium Production
Cross Section

82-Pb-205
-1.565 To 0.098 %

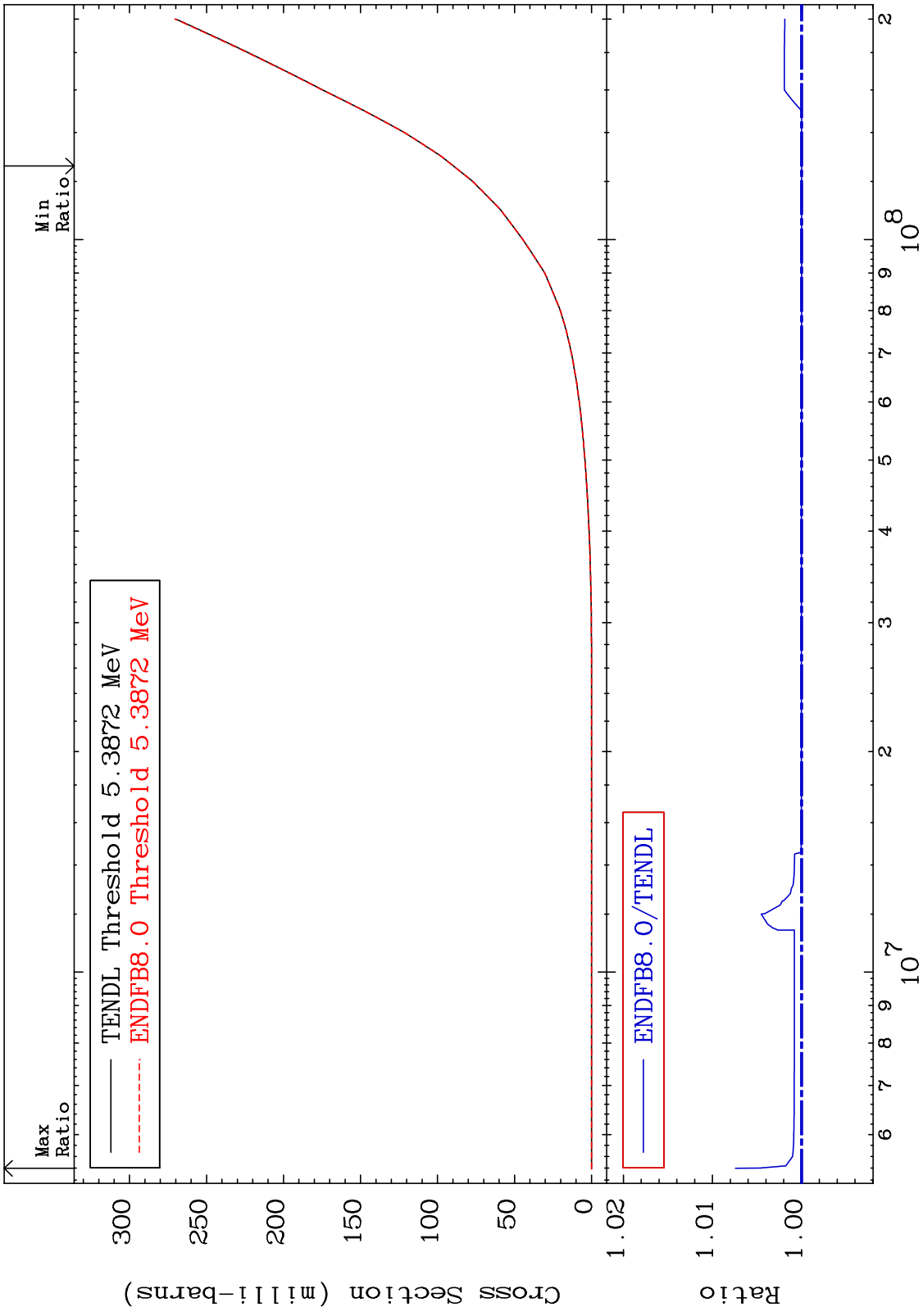


62

Incident Energy (eV)

82-Pb-205

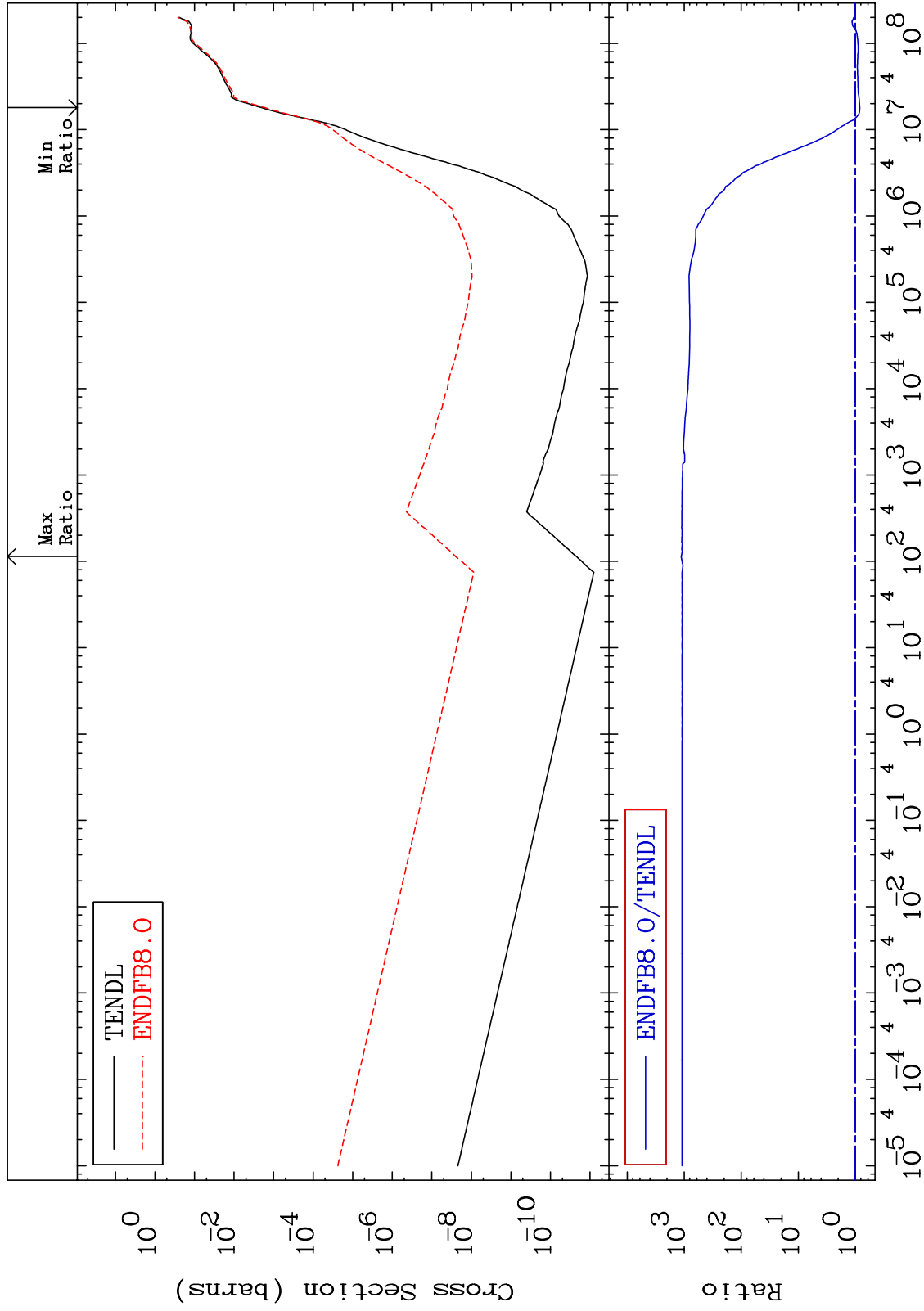
MAT 8228 He-3 Production Cross Section 82-Pb-205 To 0.744 %



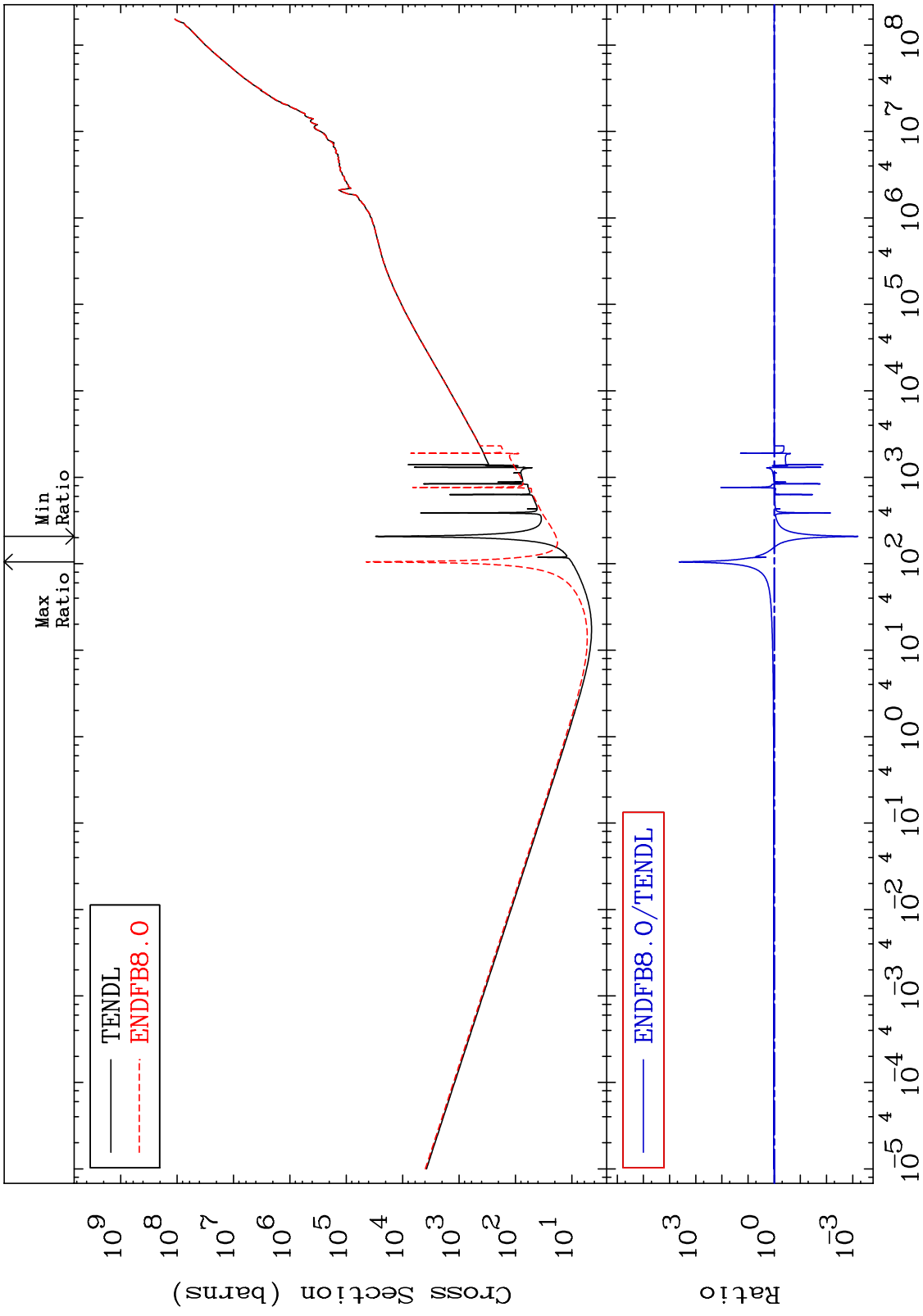
MAT 8228

He-4 Production
Cross Section

82-Pb-205
-16.45 To 9999. %



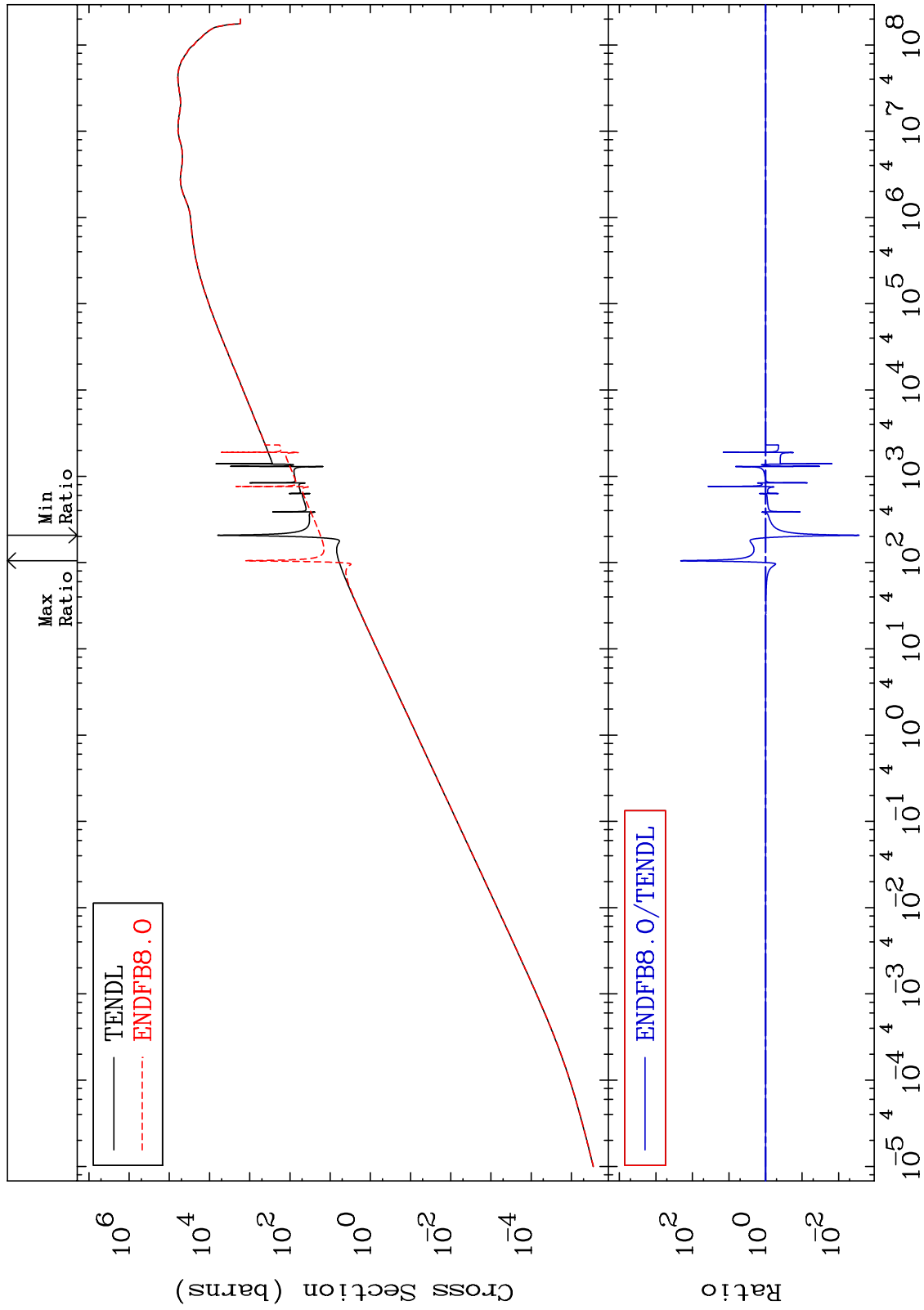
MAT 8228 Kerma total (eV-barns) 82-Pb-205
 Cross Section -99.94 To 9999. %



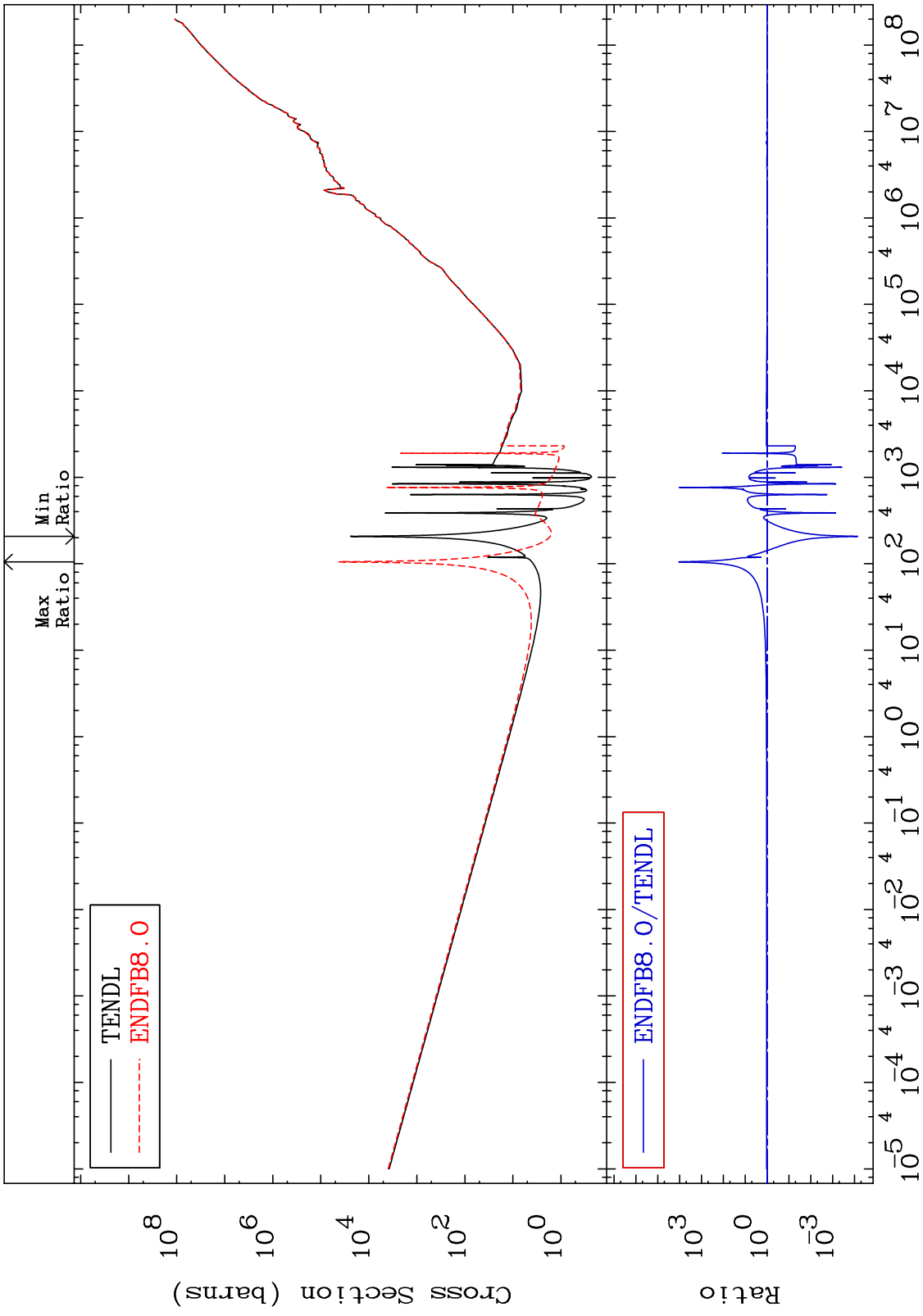
MAT 8228

Kerma elastic
Cross Section

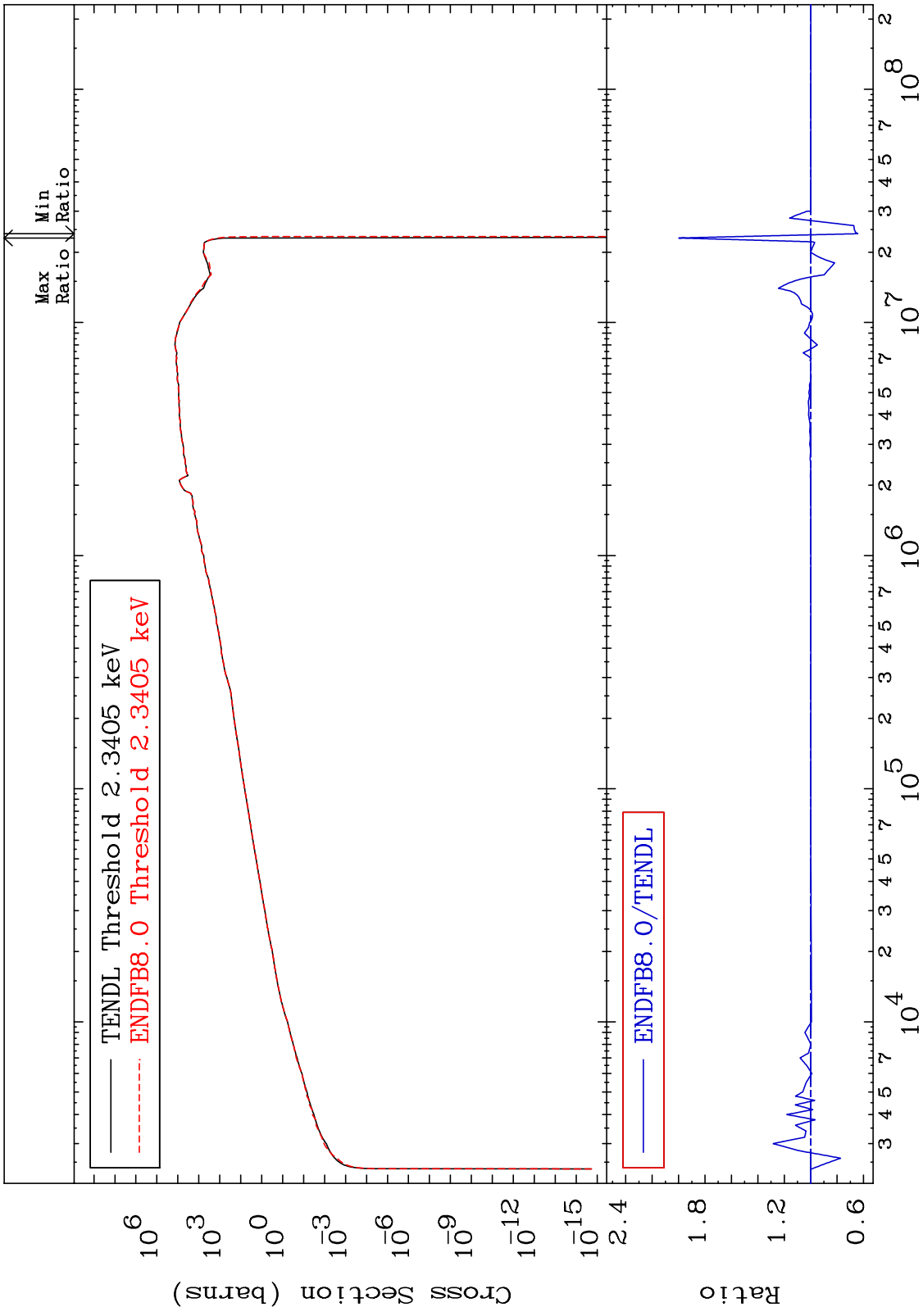
82-Pb-205
-99.72 To 9999. %



MAT 8228 Kerma non-elastic (all but mt2) 82-Pb-205
 Cross Section -99.99 To 9999. %

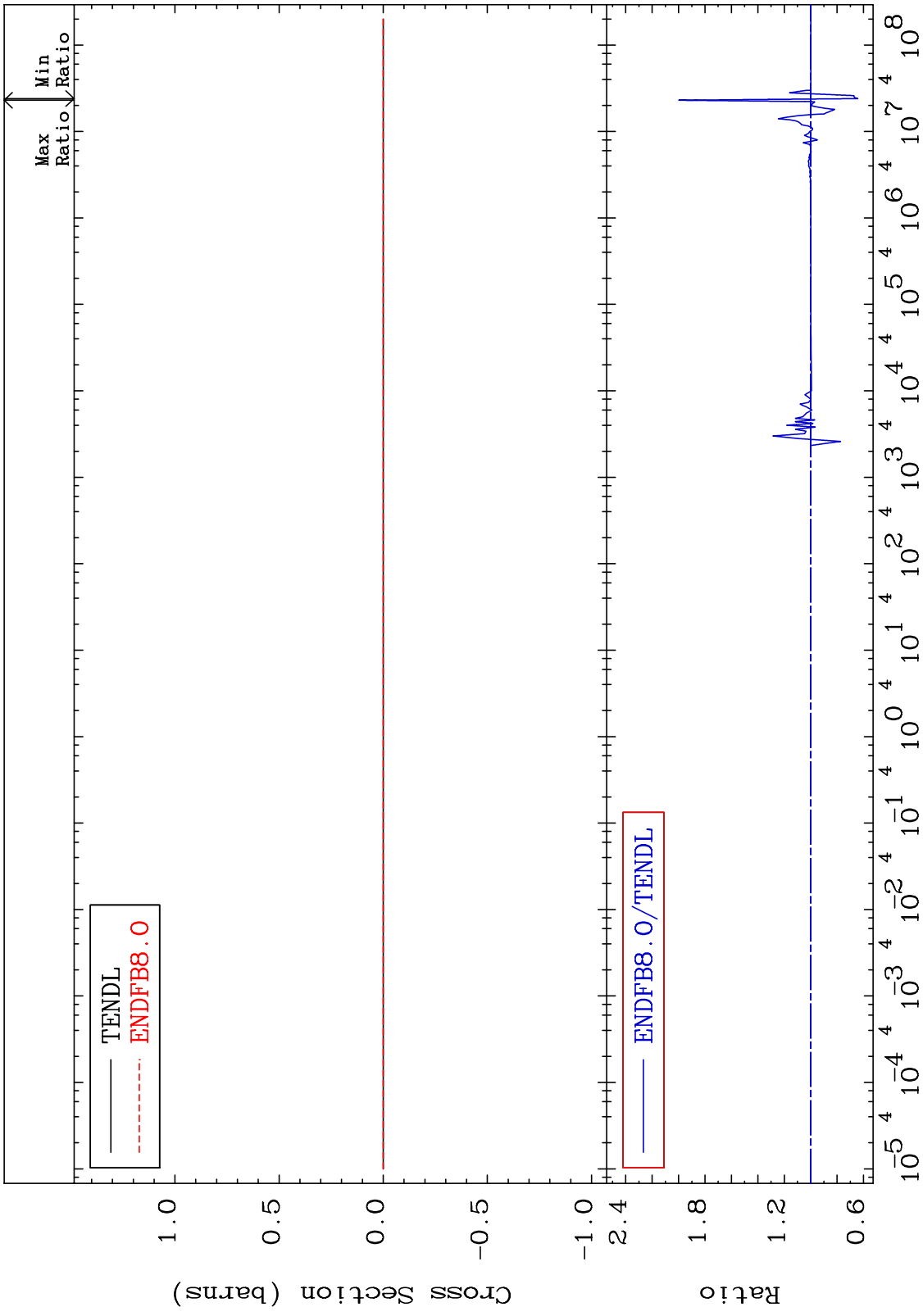


MAT 8228 Kerma inelastic (mt51-91) 82-Pb-205
 Cross Section -35.68 To 99.63 %



68 Incident Energy (eV) 82-Pb-205

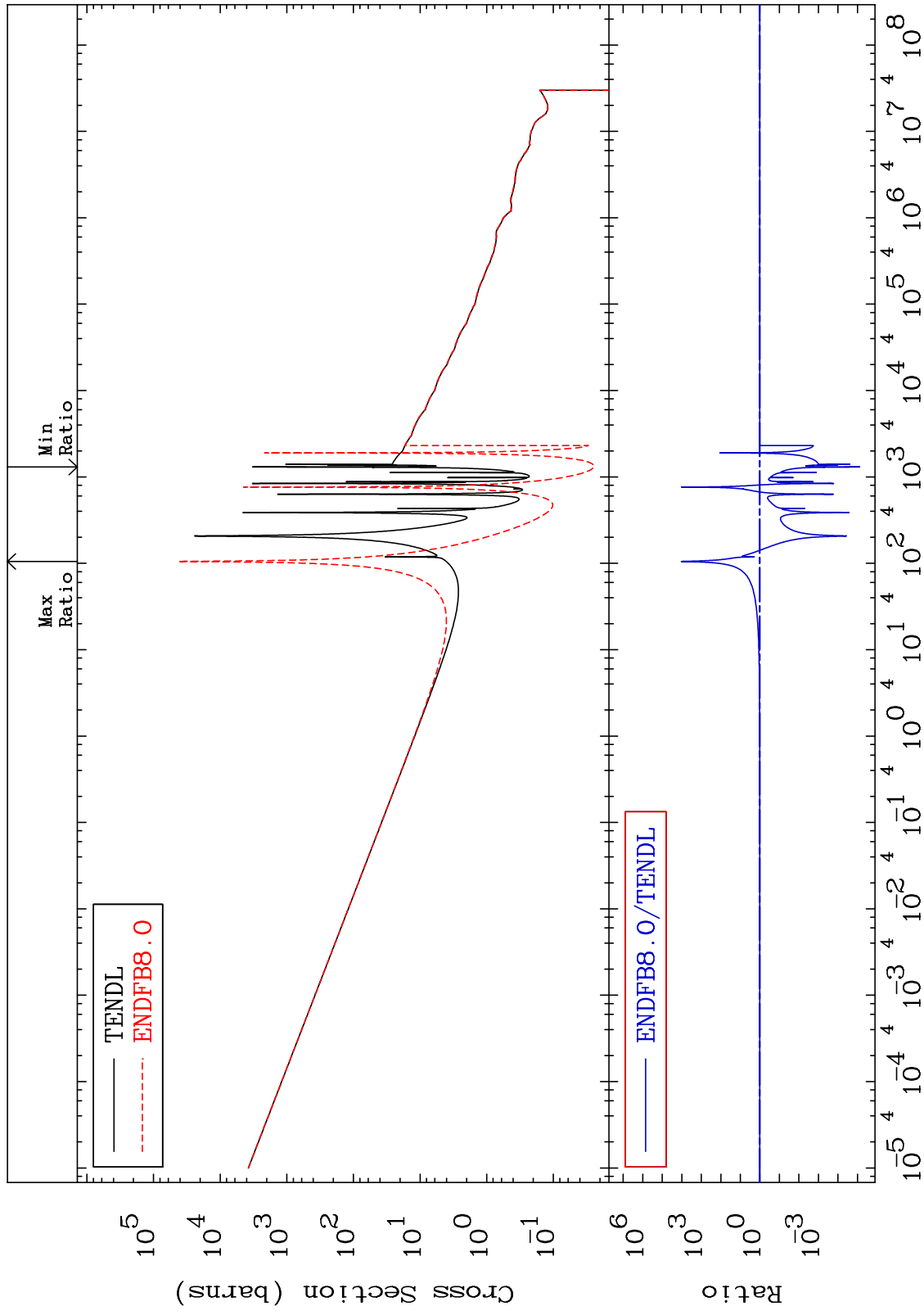
MAT 8228 Kerma fission (mt18 or mt19-20-21-38) 82-Pb-205
 Cross Section -35.68 To 99.63 %



MAT 8228

Kerma capture (mt102)
Cross Section

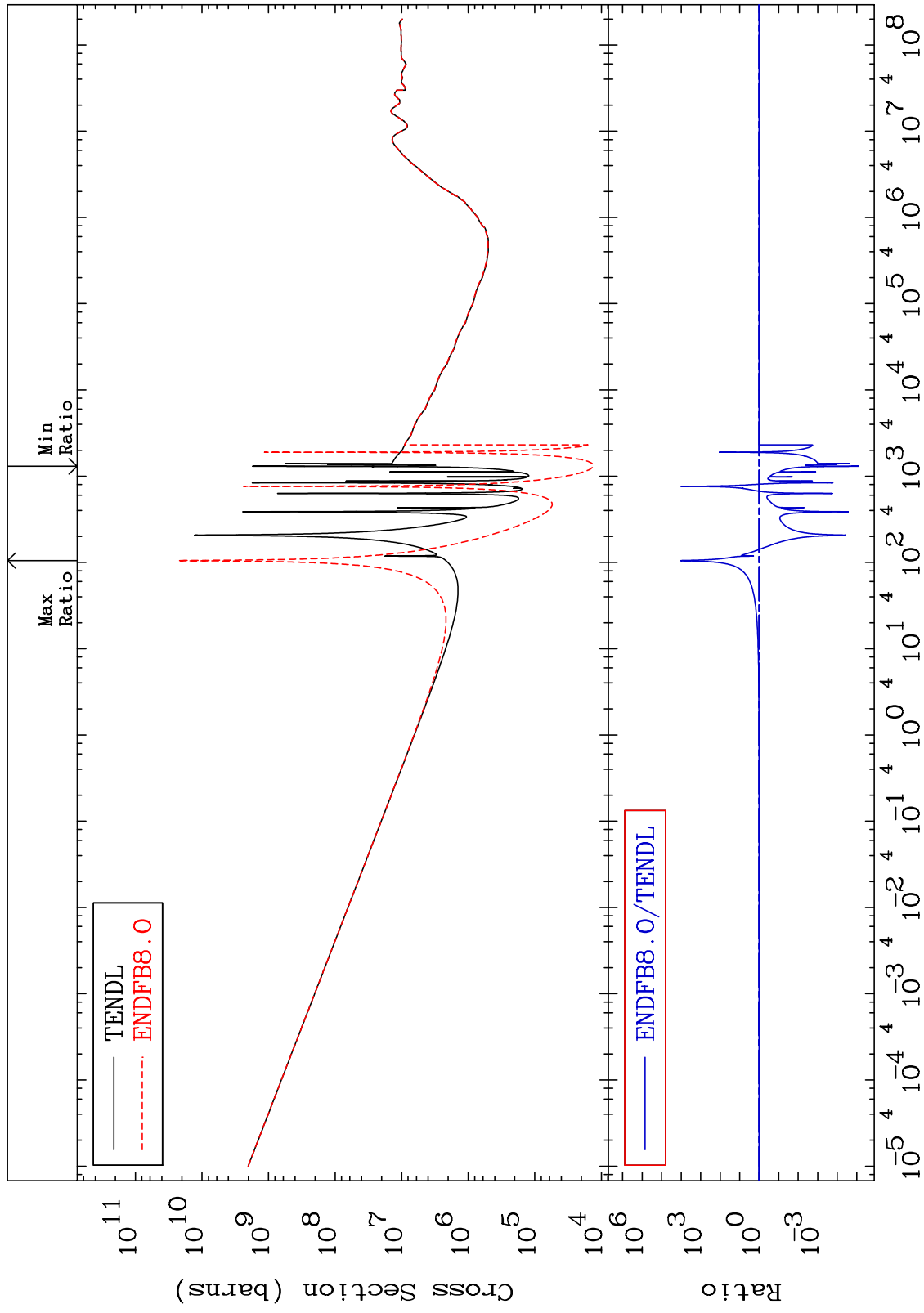
82-Pb-205
-100.0 To 9999. %



MAT 8228

Total photon (eV-barns)
Cross Section

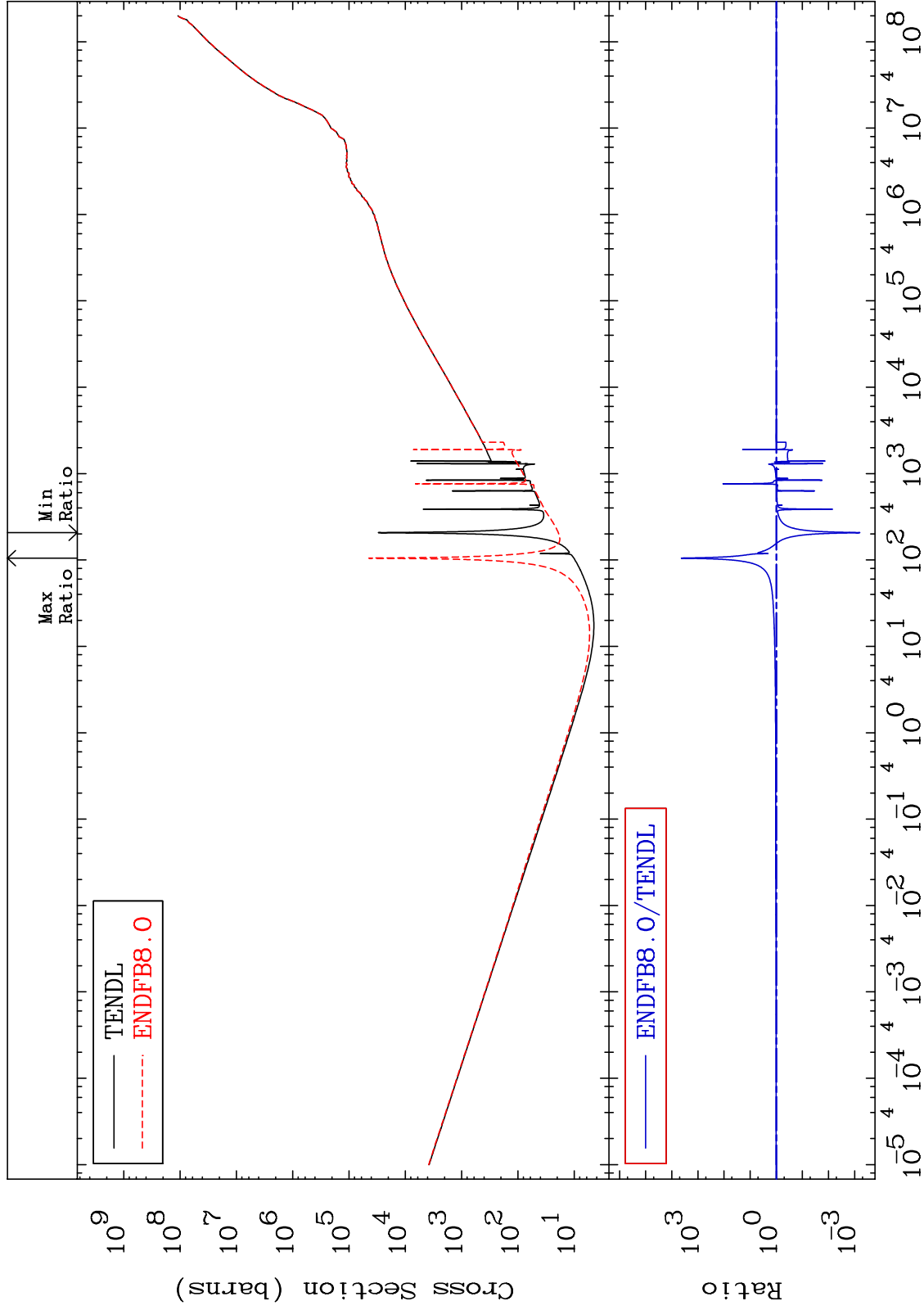
82-Pb-205
-100.0 To 9999. %



MAT 8228

Total kinematic kerma (high limit)
Cross Section

82-Pb-205
-99.94 To 9999. %



72

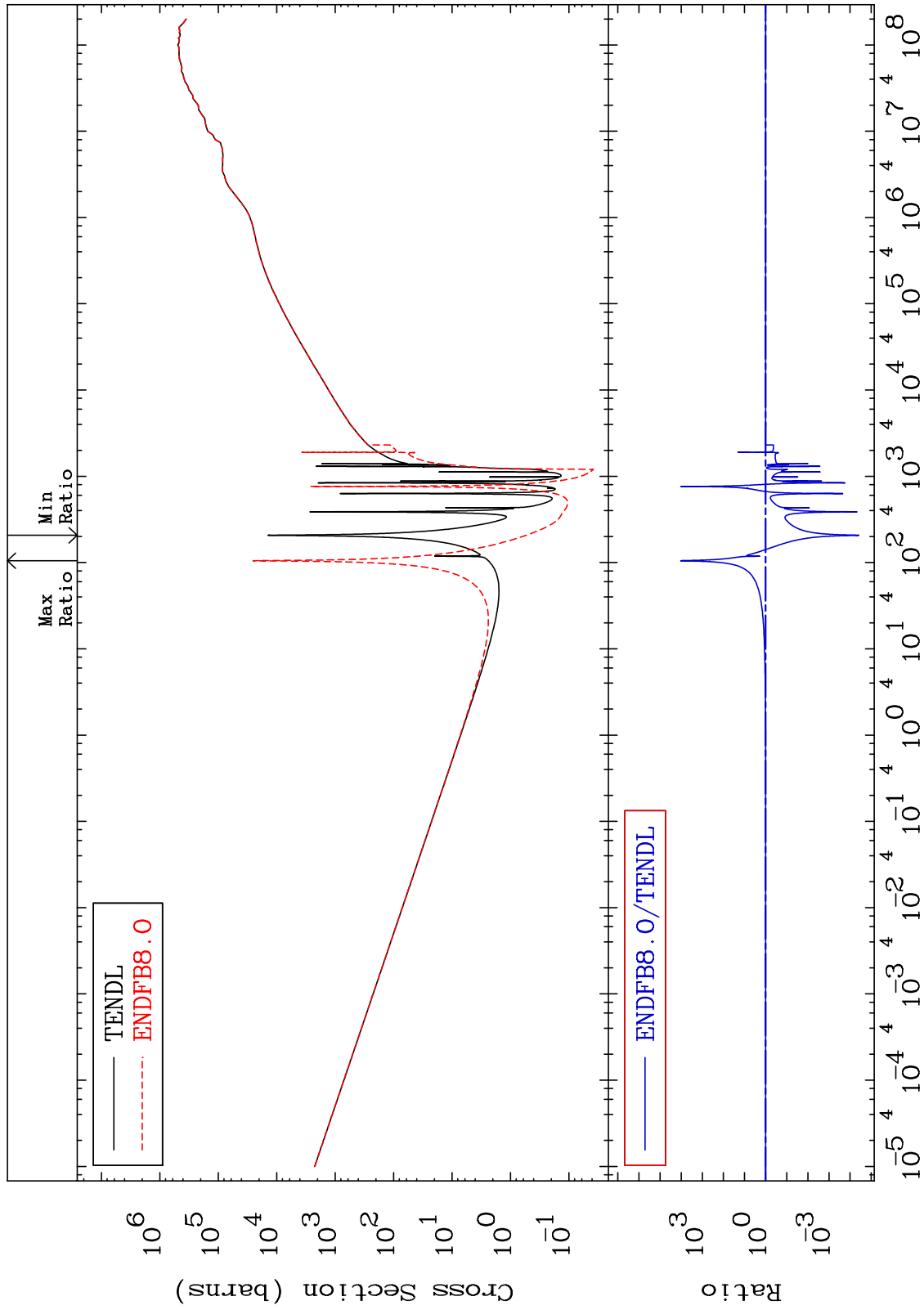
Incident Energy (eV)

82-Pb-205

MAT 8228

Dpa total (eV-barns)
Cross Section

82-Pb-205
-100.0 To 9999. %

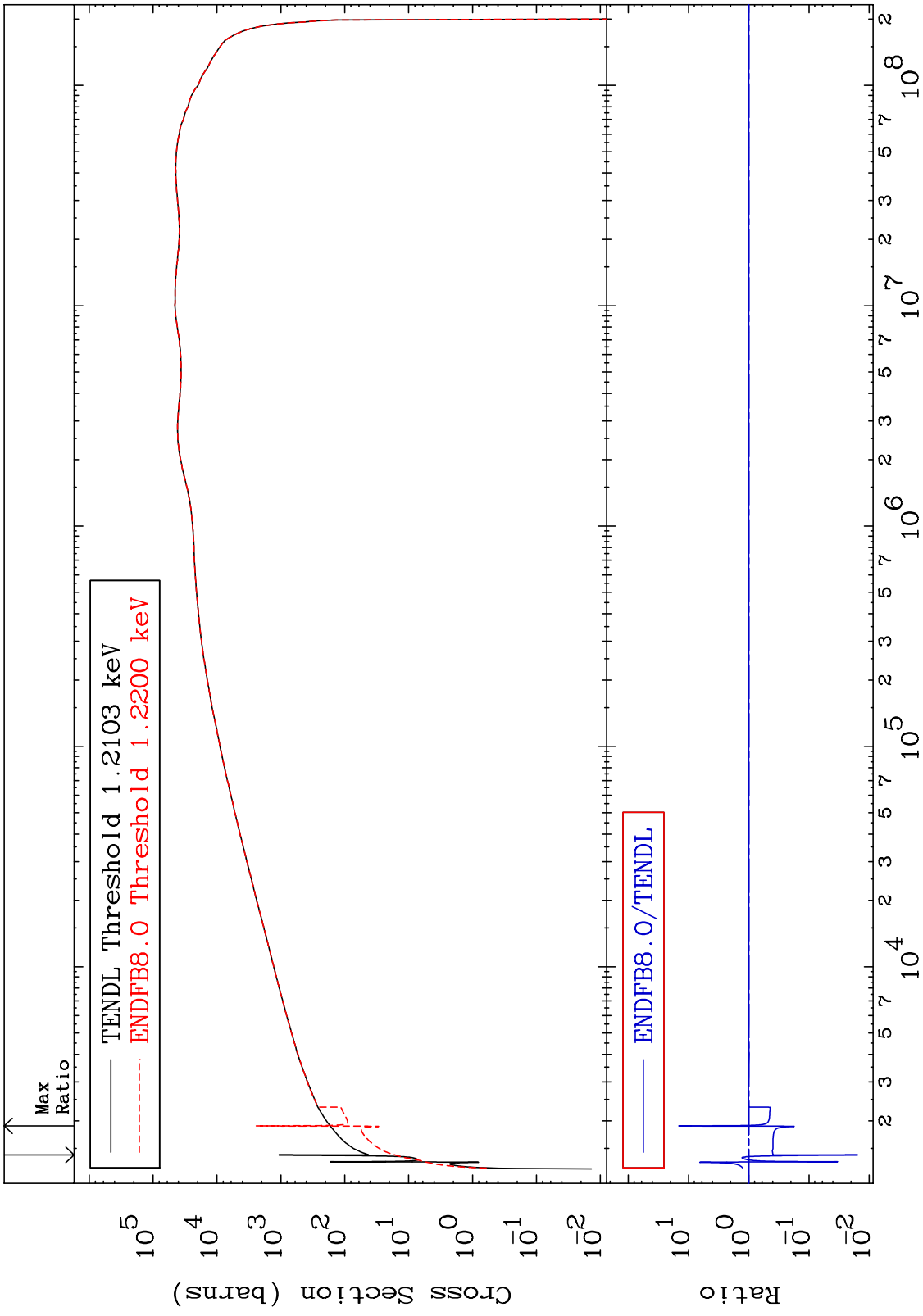


73

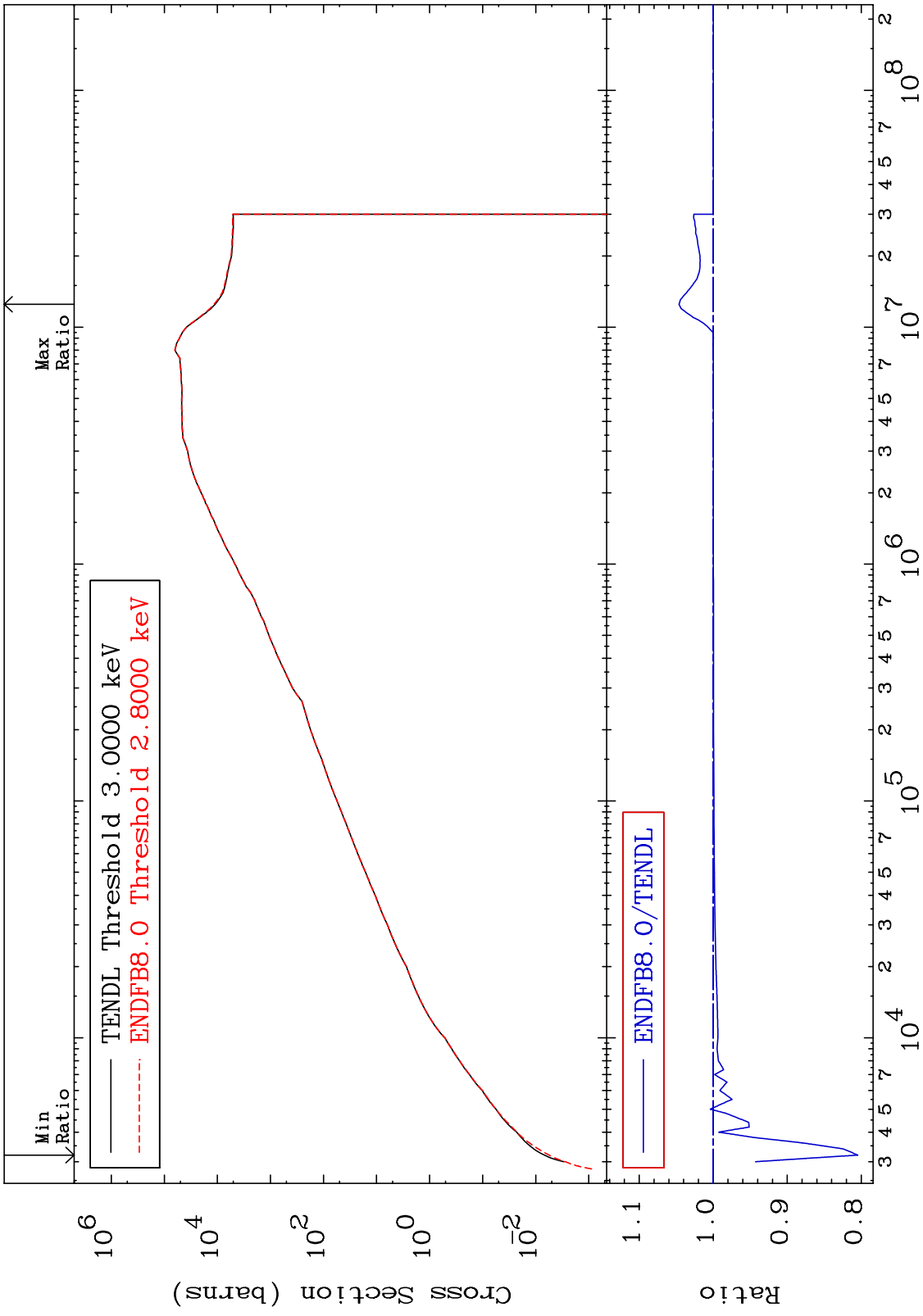
Incident Energy (eV)

82-Pb-205

MAT 8228 Dpa elastic (mt2) 82-Pb-205
 Cross Section -98.46 To 1337. %



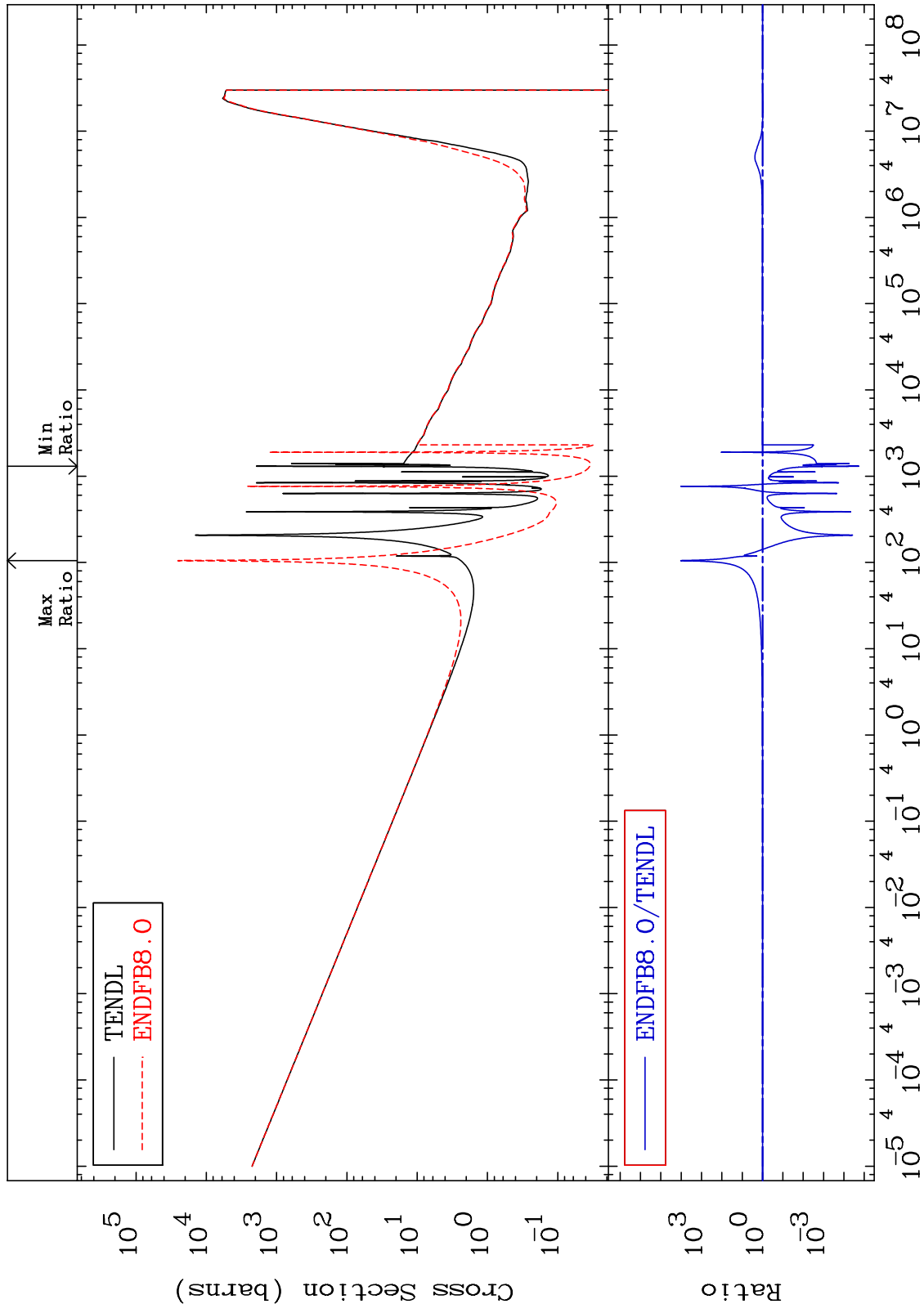
MAT 8228 Dpa inelastic (mt51-91) 82-Pb-205
 Cross Section -19.54 To 4.618 %



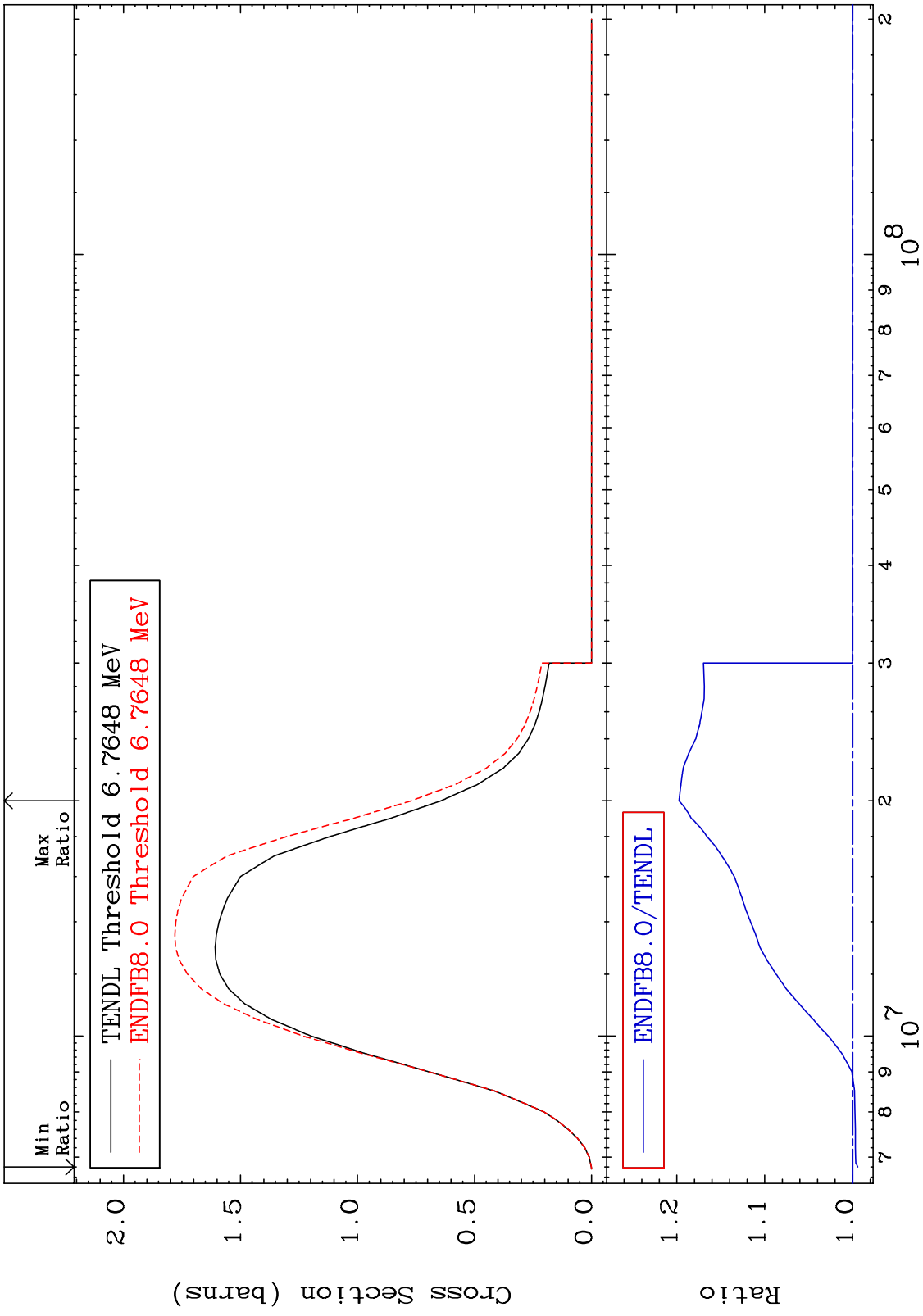
MAT 8228

Dpa disappearance (mt102 -120)
Cross Section

82-Pb-205
-100.0 To 9999. %



MAT 8228 (n,2n):82-Pb-204g 82-Pb-205
 Radionuclide Production Cross Section -0.596 To 19.75 %

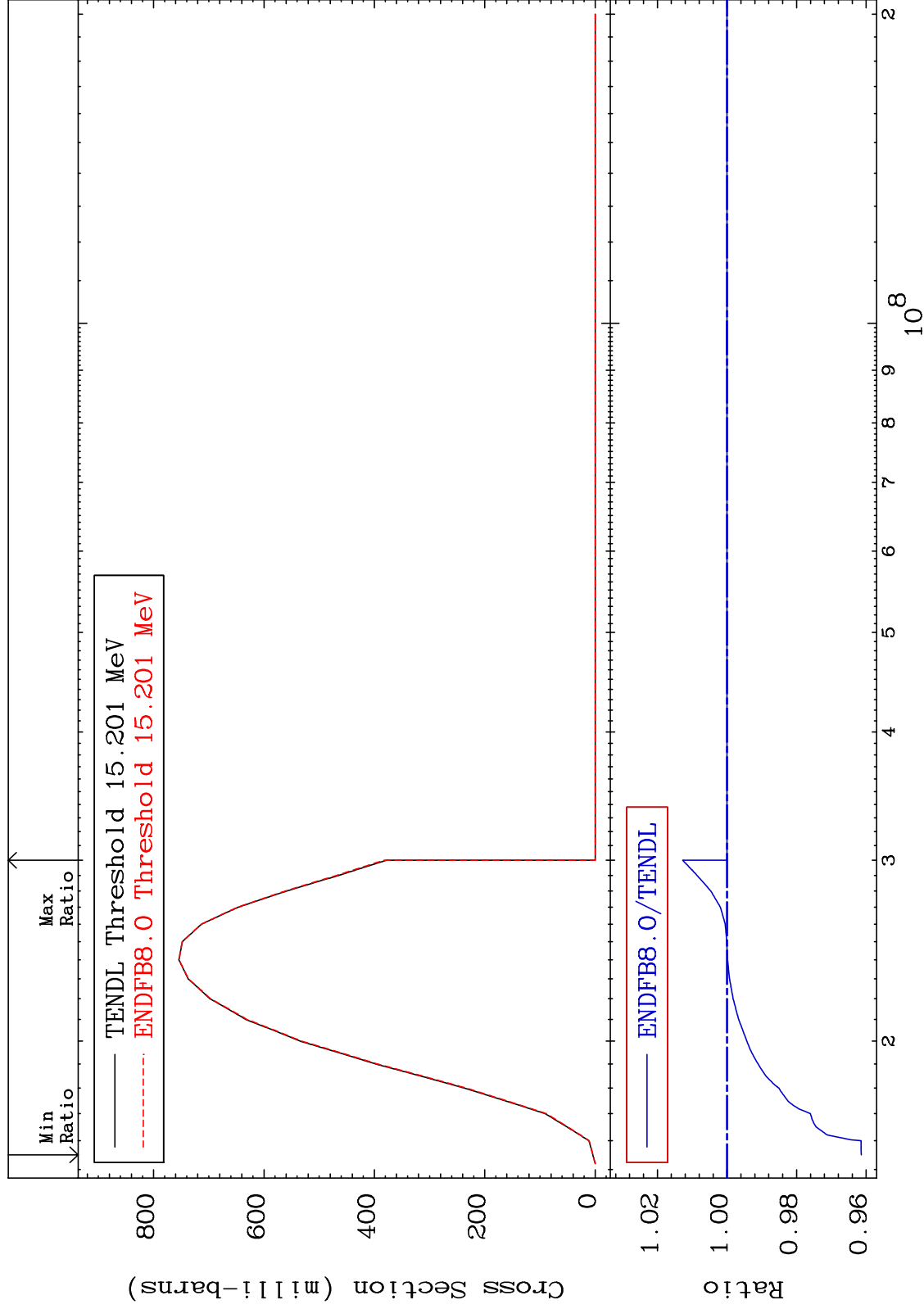


MAT 8228

(n,3n):82-Pb-203g

82-Pb-205

Radionuclide Production Cross Section -3.861 To 1.275 %



78

Incident Energy (eV)

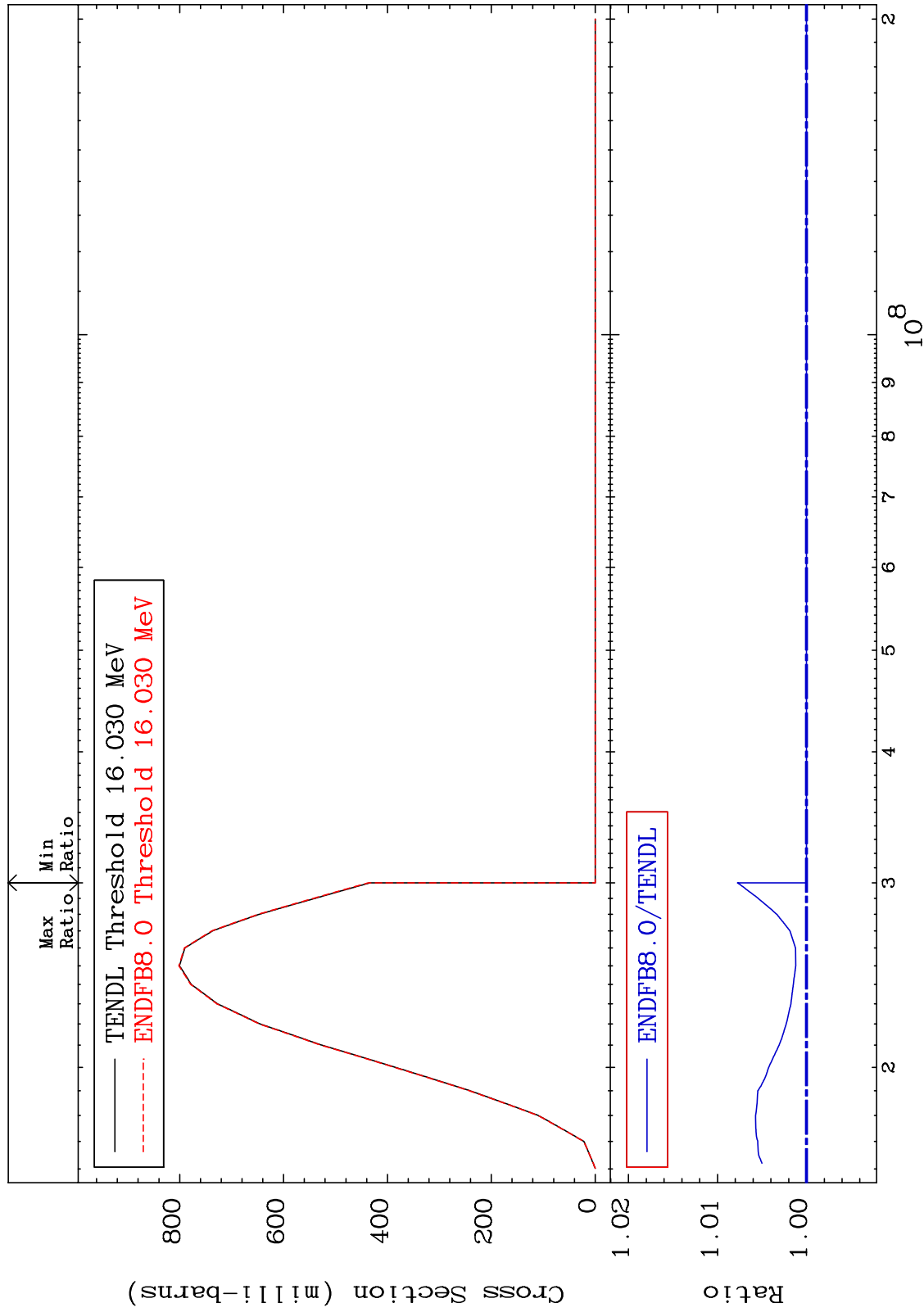
82-Pb-205

MAT 8228

(n,3n) : 82-Pb-203m6

82-Pb-205

Radionuclide Production Cross Section 0.000 To 0.775 %

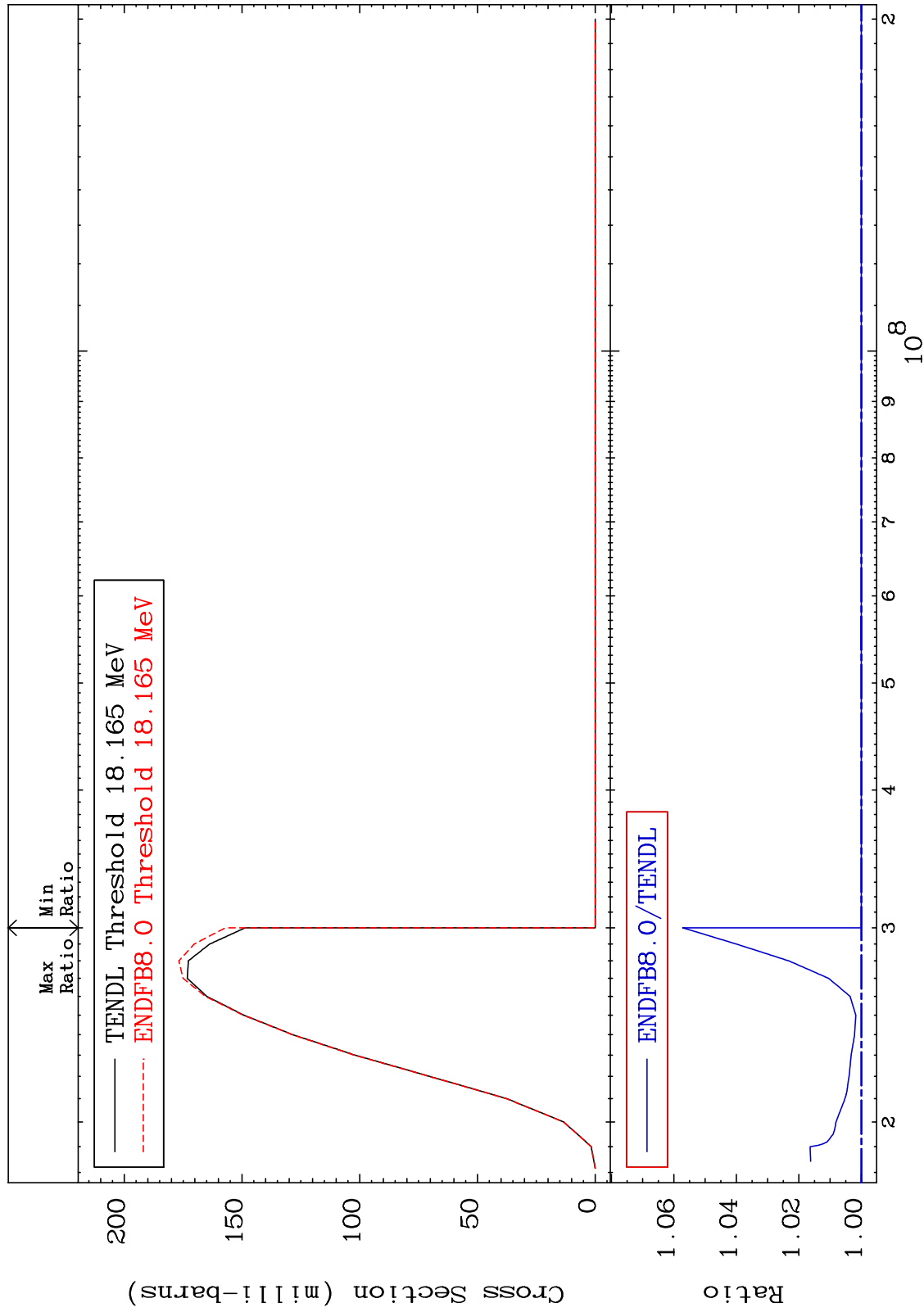


MAT 8228

(n,3n):82-Pb-203m10

82-Pb-205

Radionuclide Production Cross Section 0.000 To 5.719 %

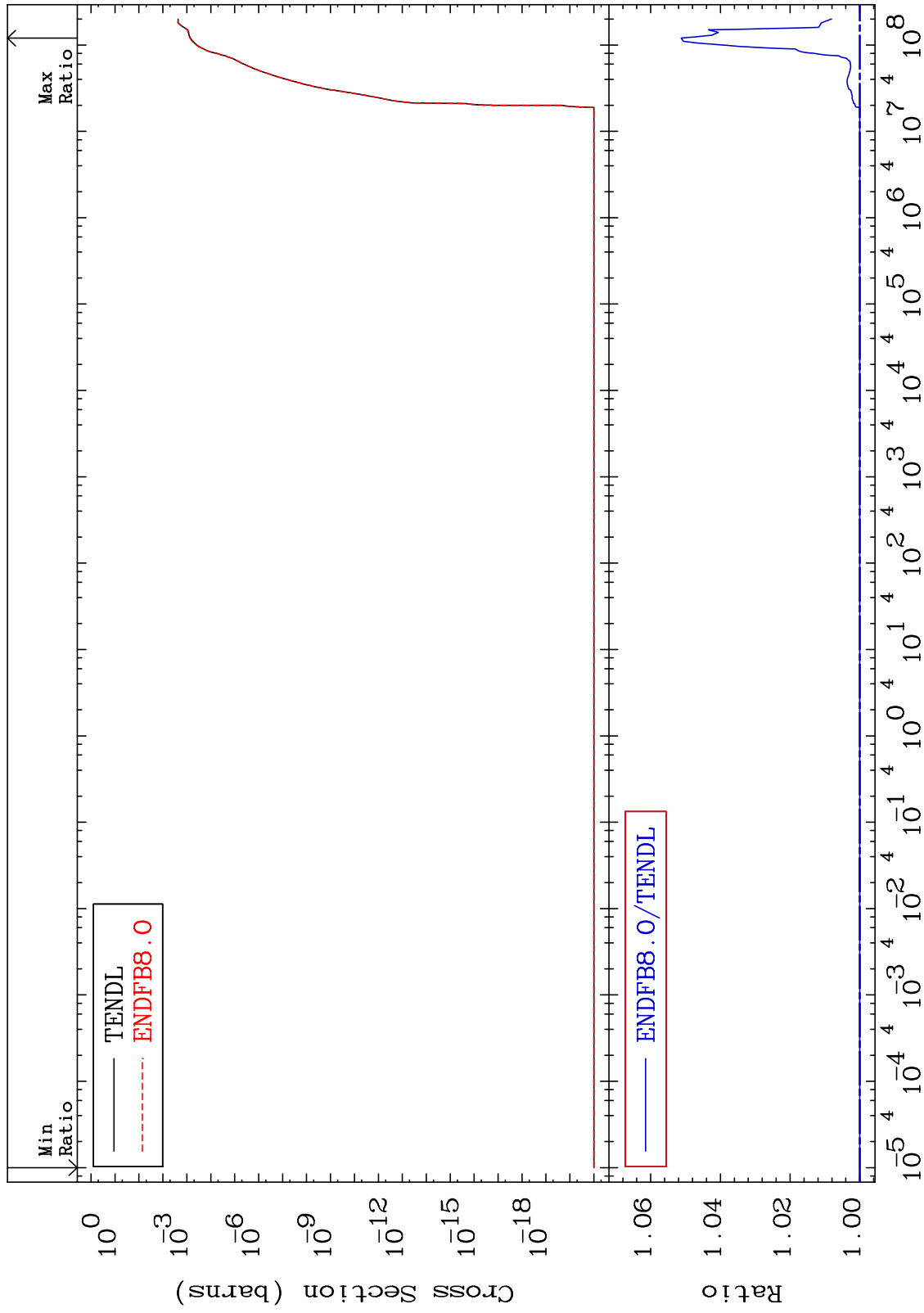


MAT 8228

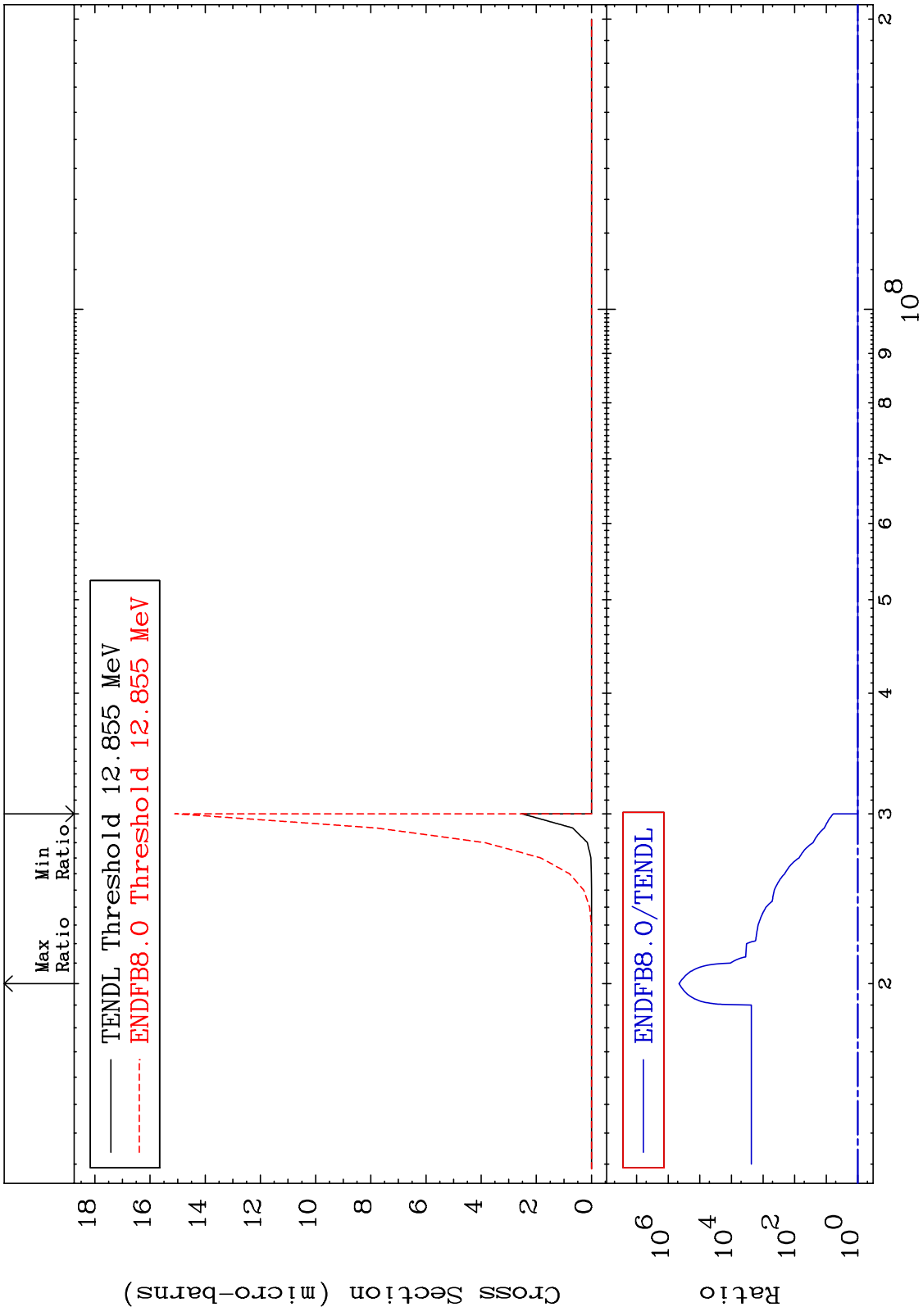
Fission: 0-??-Nat

82-Pb-205

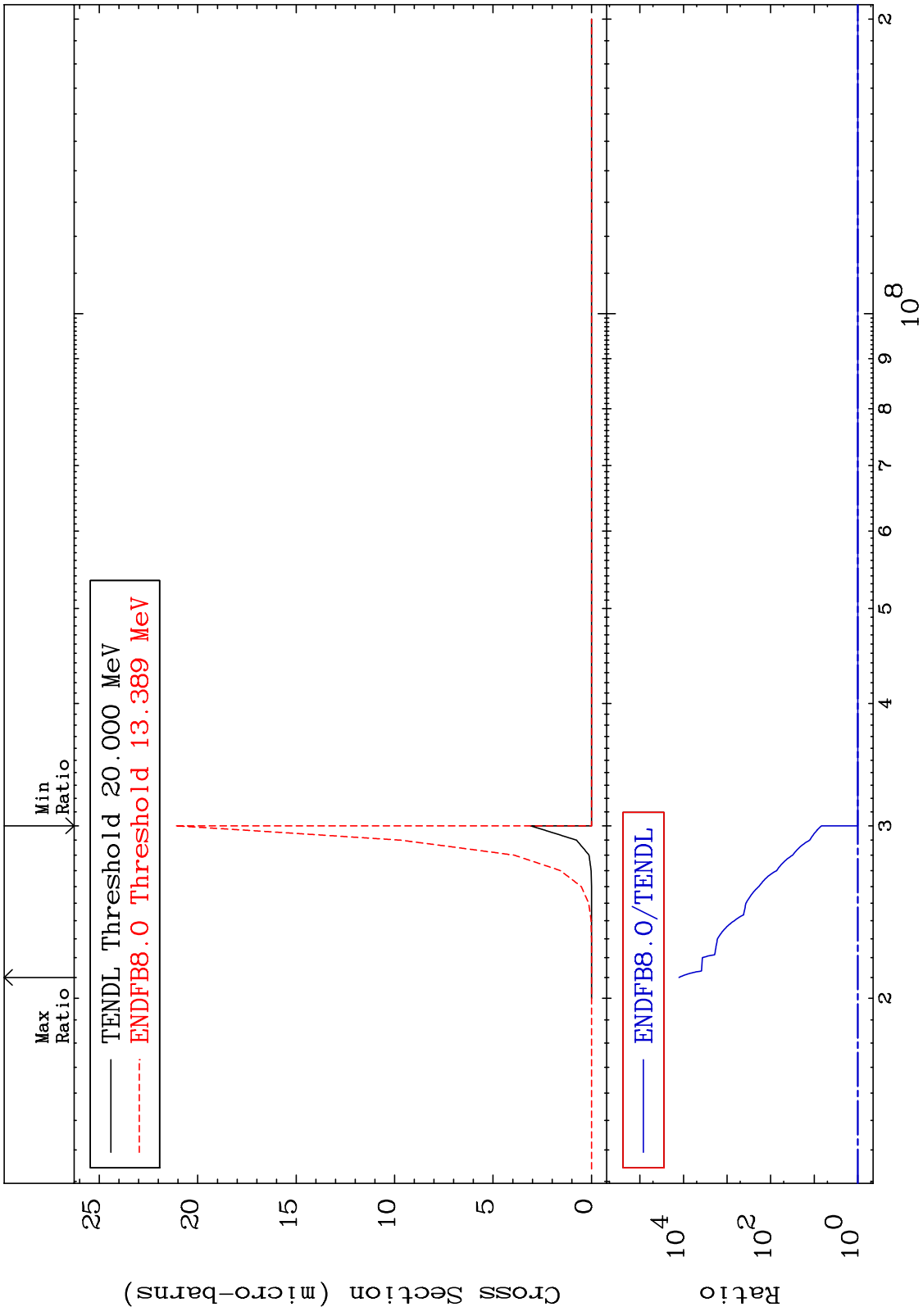
Radionuclide Production Cross Section 0.000 To 5.123 %



MAT 8228 (n,3n) α :80-Hg-199g 82-Pb-205
 Radionuclide Production Cross Section 0.000 To 9999. %



MAT 8228 (n,3n) α : 80-Hg-199m7 82-Pb-205
 Radionuclide Production Cross Section 0.000 To 9999. %



MAT 8228

(n,4n):82-Pb-202g

82-Pb-205

Radionuclide Production Cross Section -0.247 To 6.831 %

