

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

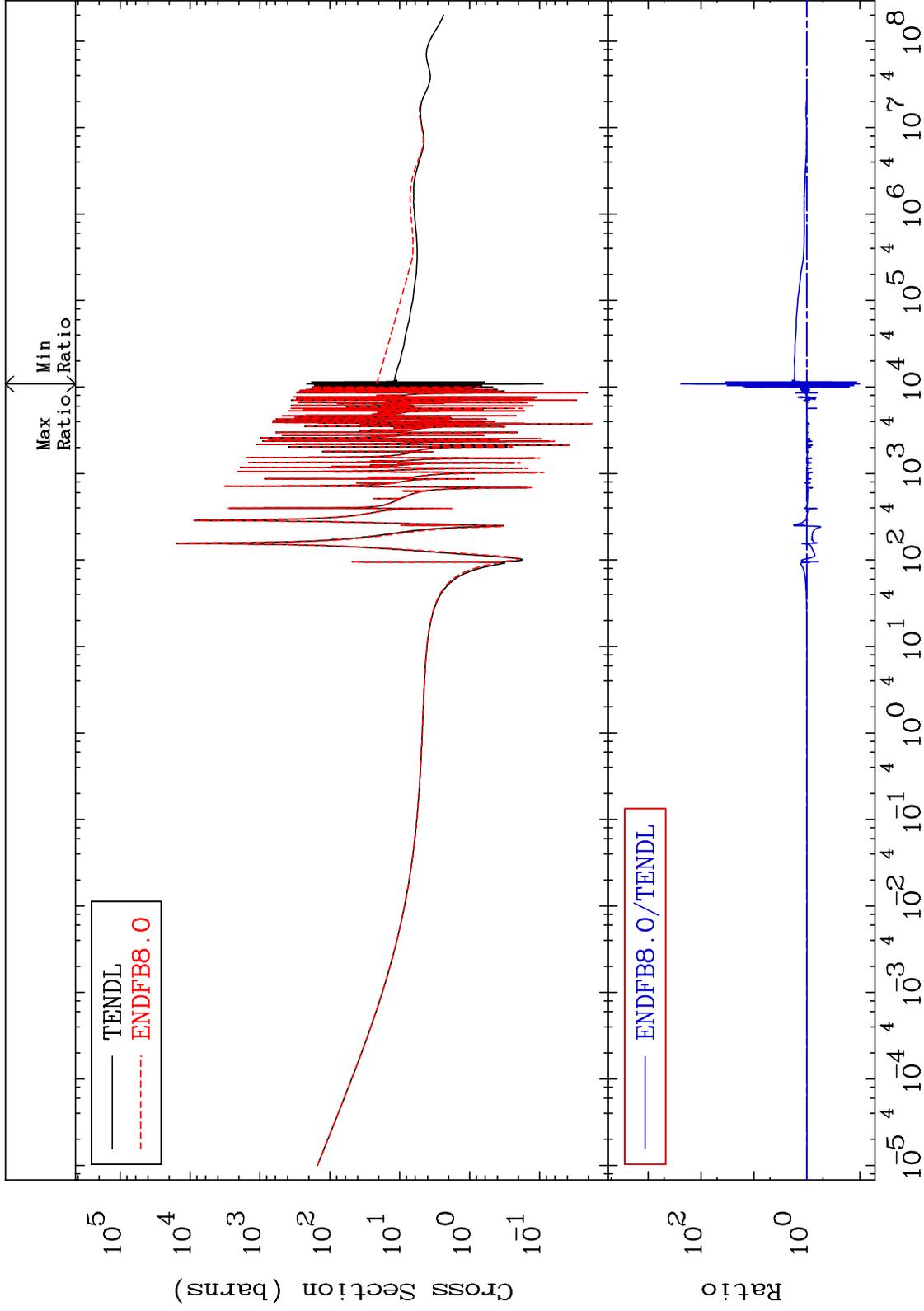
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6043

Total
Cross Section

60-Nd-148
-89.95 To 9999. %



1

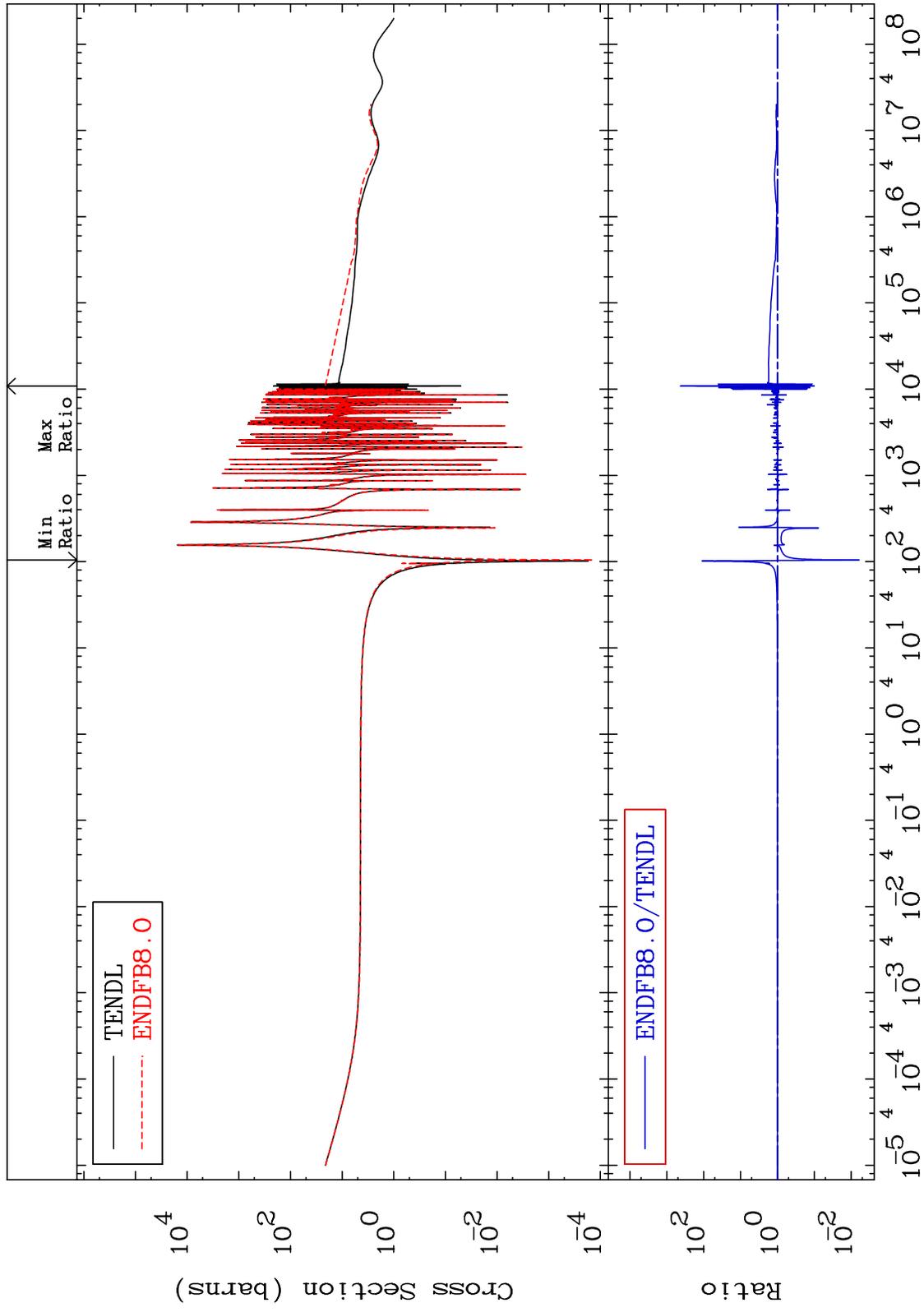
Incident Energy (eV)

60-Nd-148

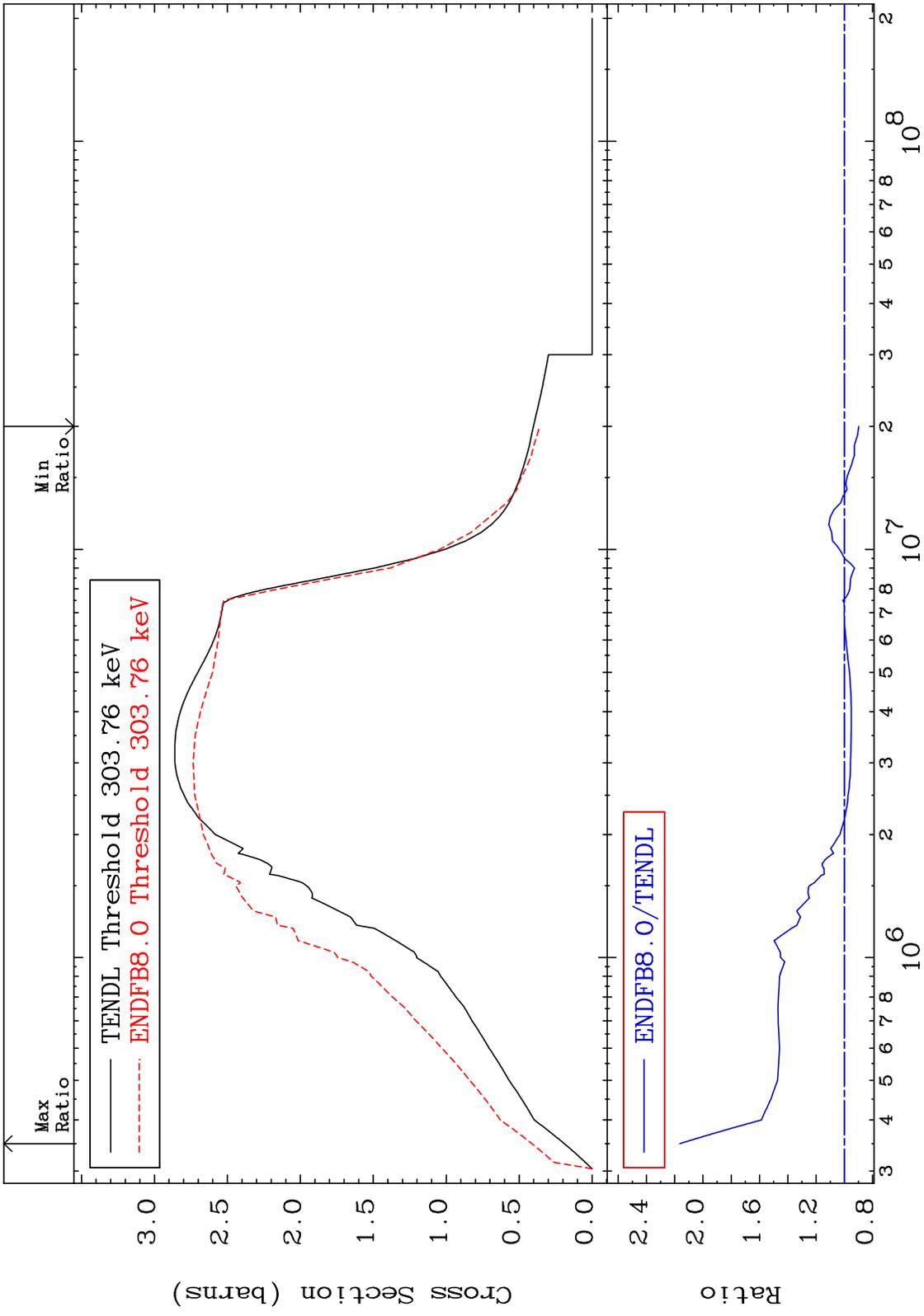
MAT 6043

Elastic
Cross Section

60-Nd-148
-99.39 To 9999. %

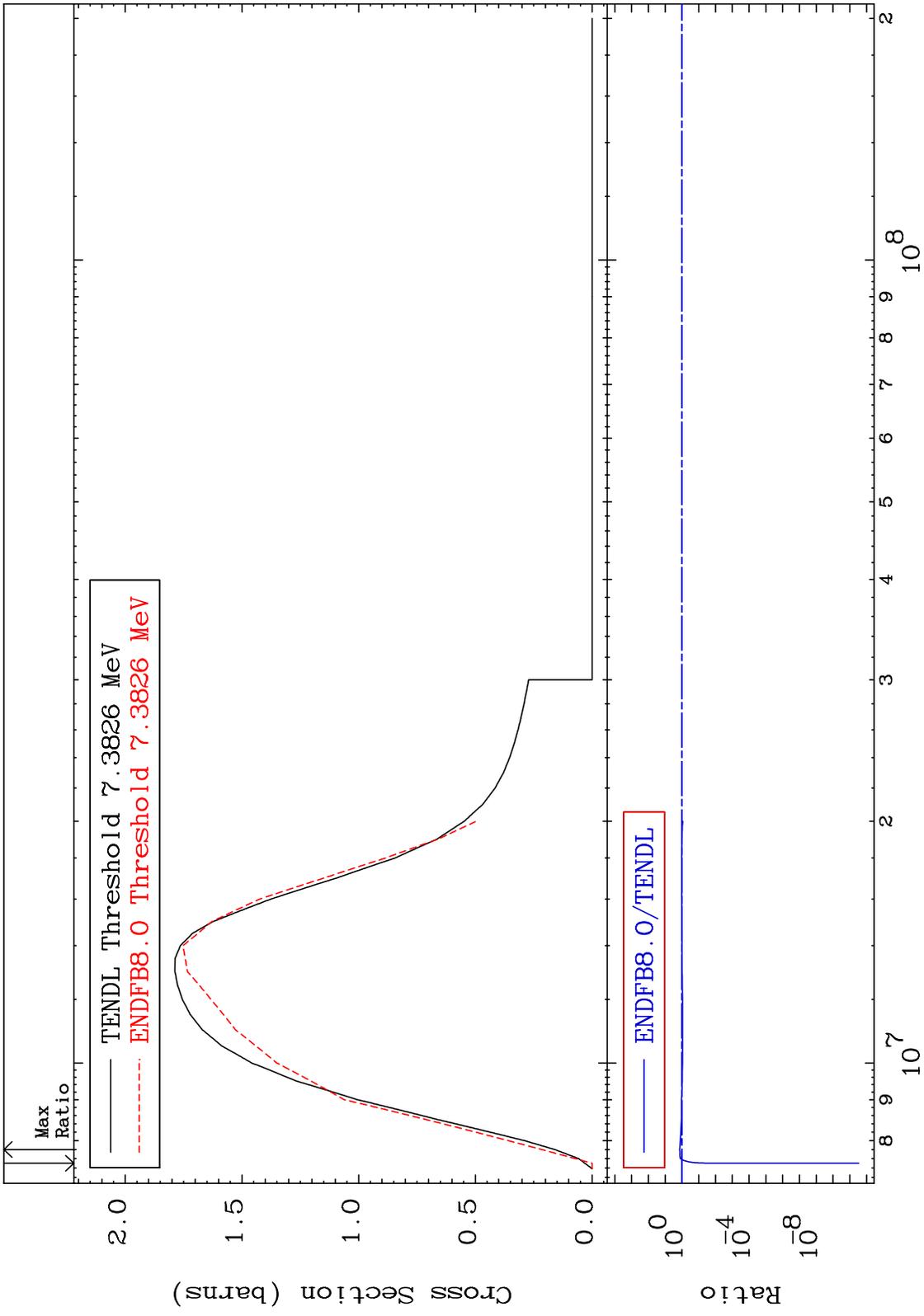


MAT 6043 Inelastic Cross Section 60-Nd-148 -10.22 To 116.4 %



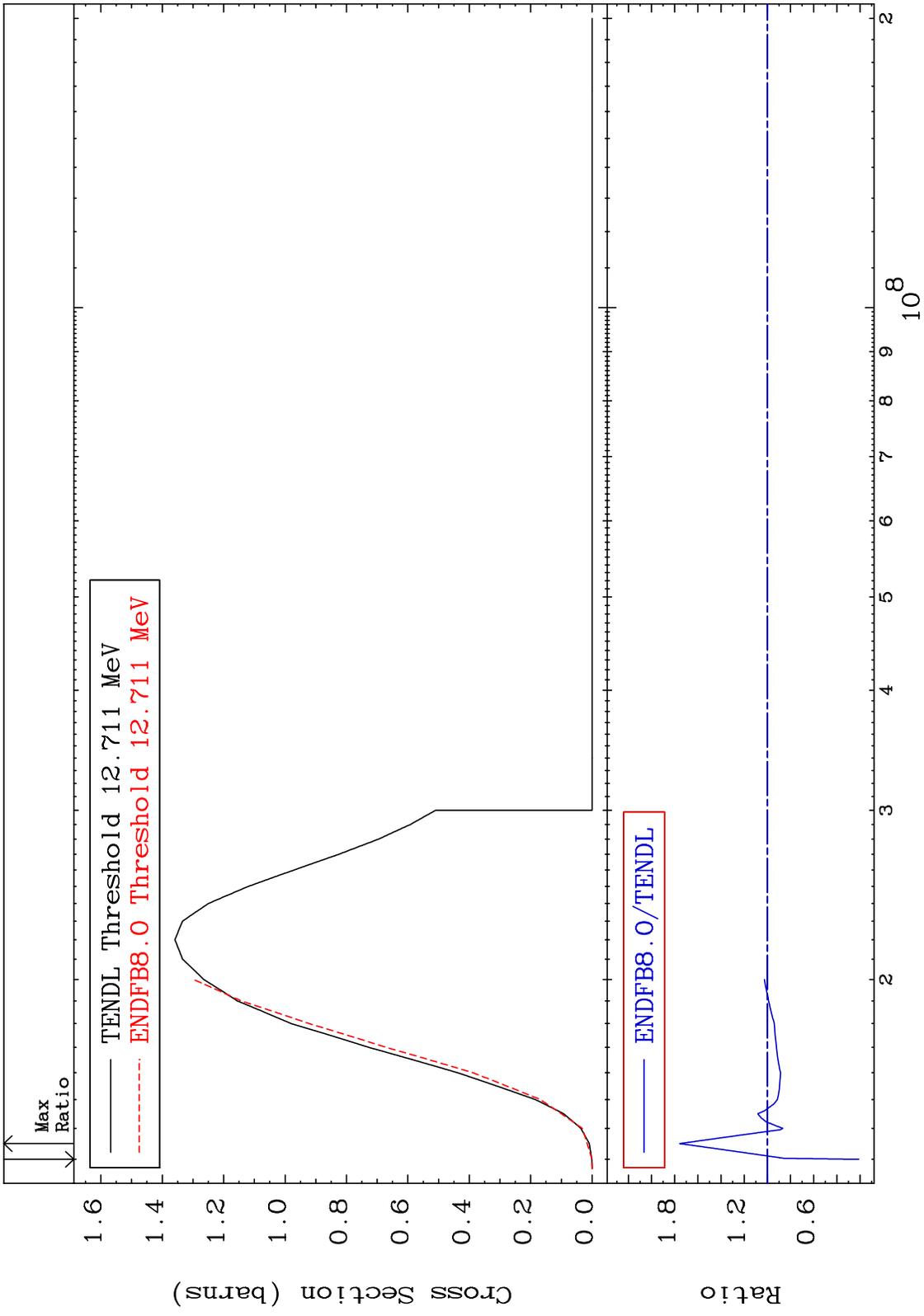
3 Incident Energy (eV) 60-Nd-148

MAT 6043 (n,2n) Cross Section 60-Nd-148 -100.0 To 34.64 %



4 Incident Energy (eV) 60-Nd-148

MAT 6043 (n,3n) Cross Section 60-Nd-148 -78.92 To 75.65 %



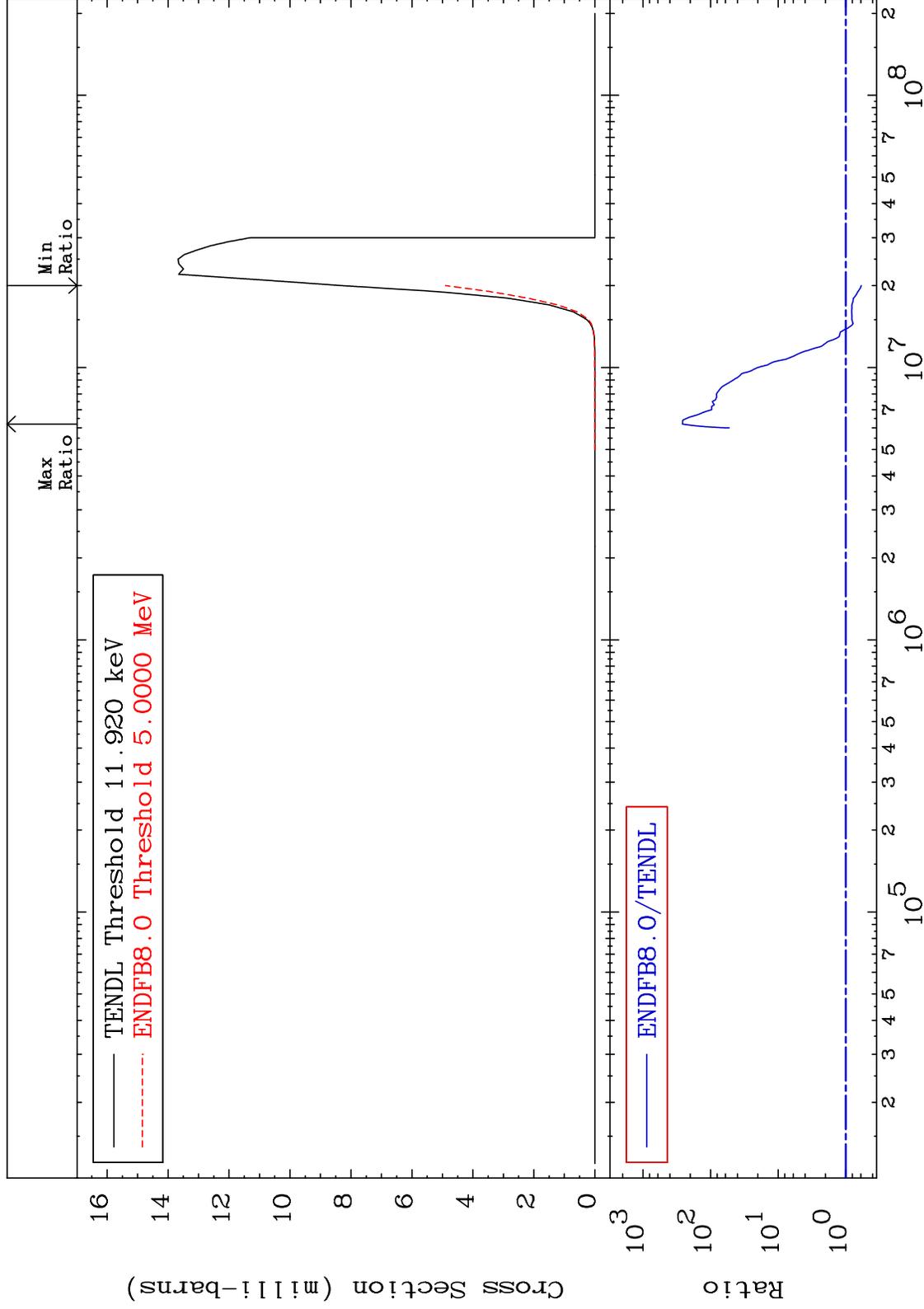
MAT 6043

(n, n') α

60-Nd-148

Cross Section

-41.10 To 9999. %



MAT 6043

(n,2n) α

60-Nd-148

703.3 To 9999. %

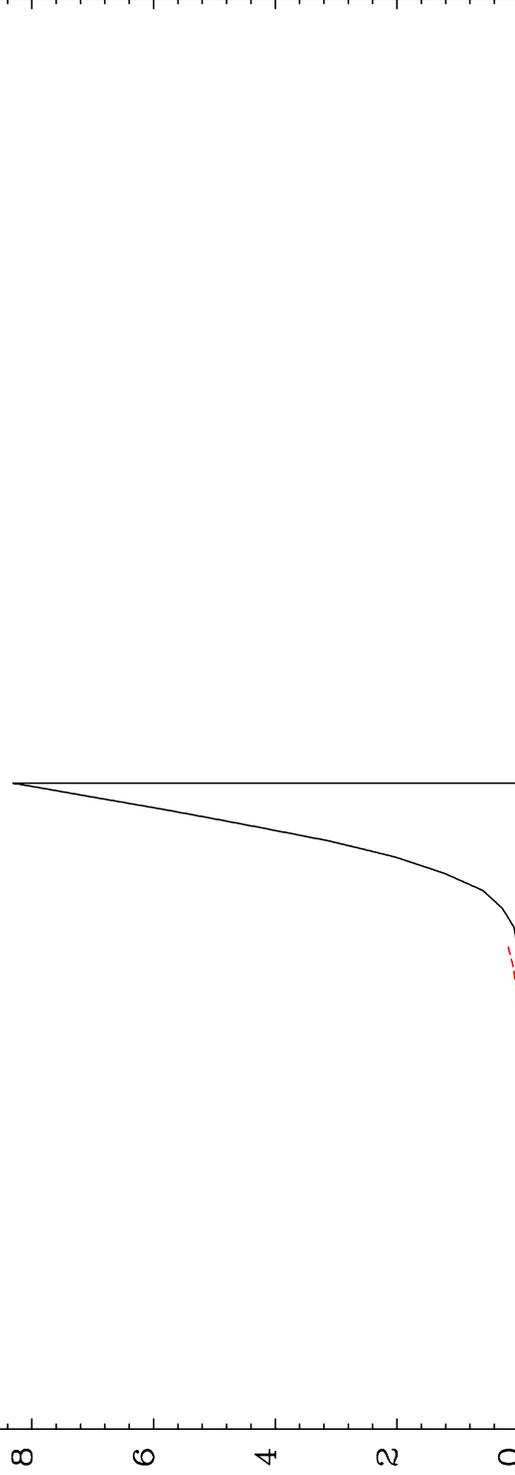
Cross Section

Max Ratio

Min Ratio

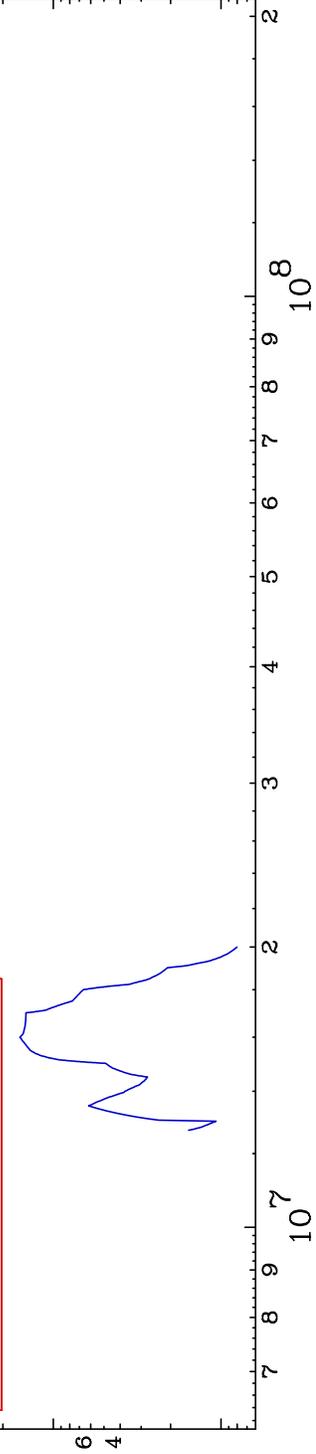
TENDL Threshold 6.3405 MeV
ENDFB8.0 Threshold 12.000 MeV

Cross Section (milli-barns)



ENDFB8.0/TENDL

Ratio

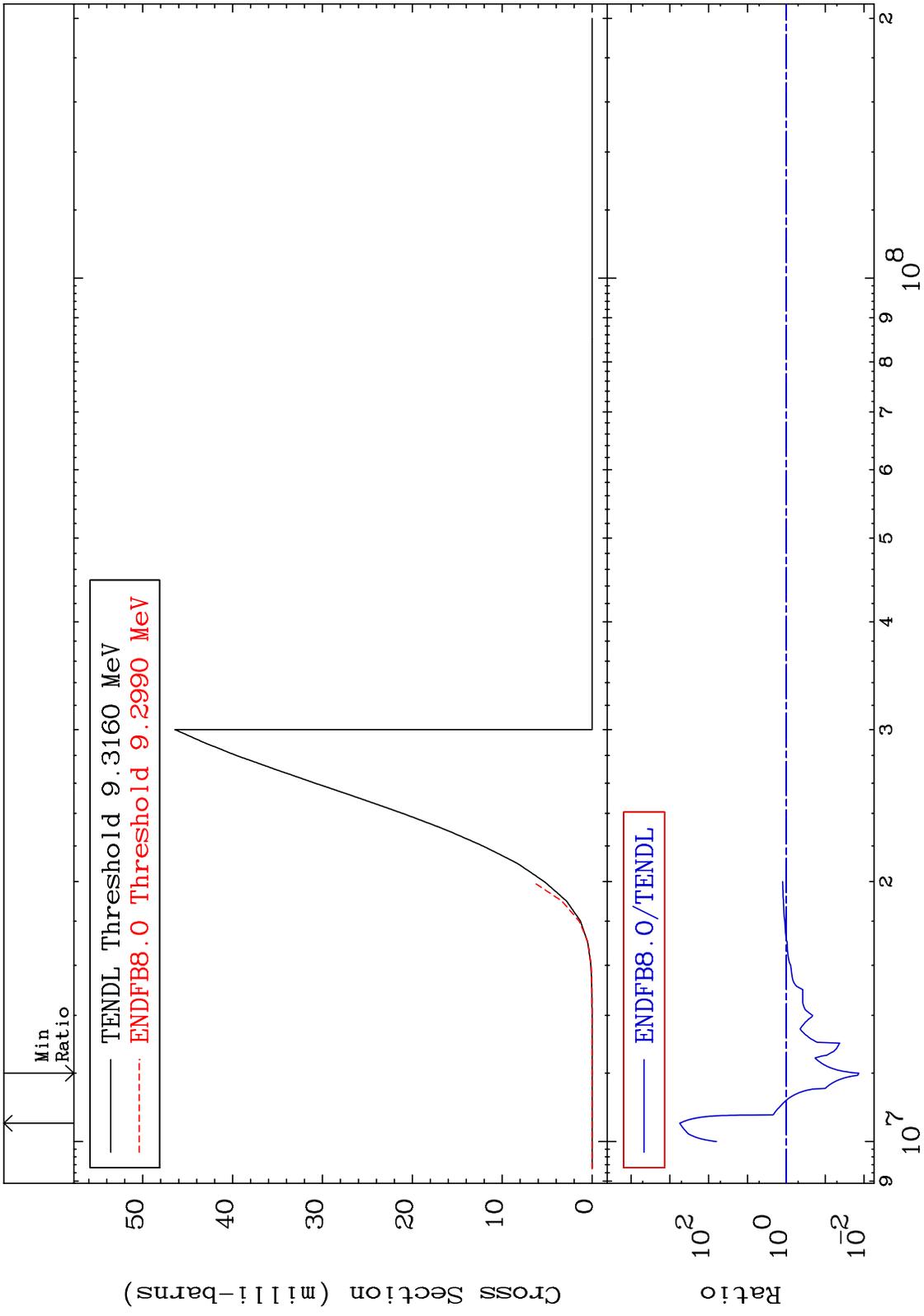


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Incident Energy (eV)

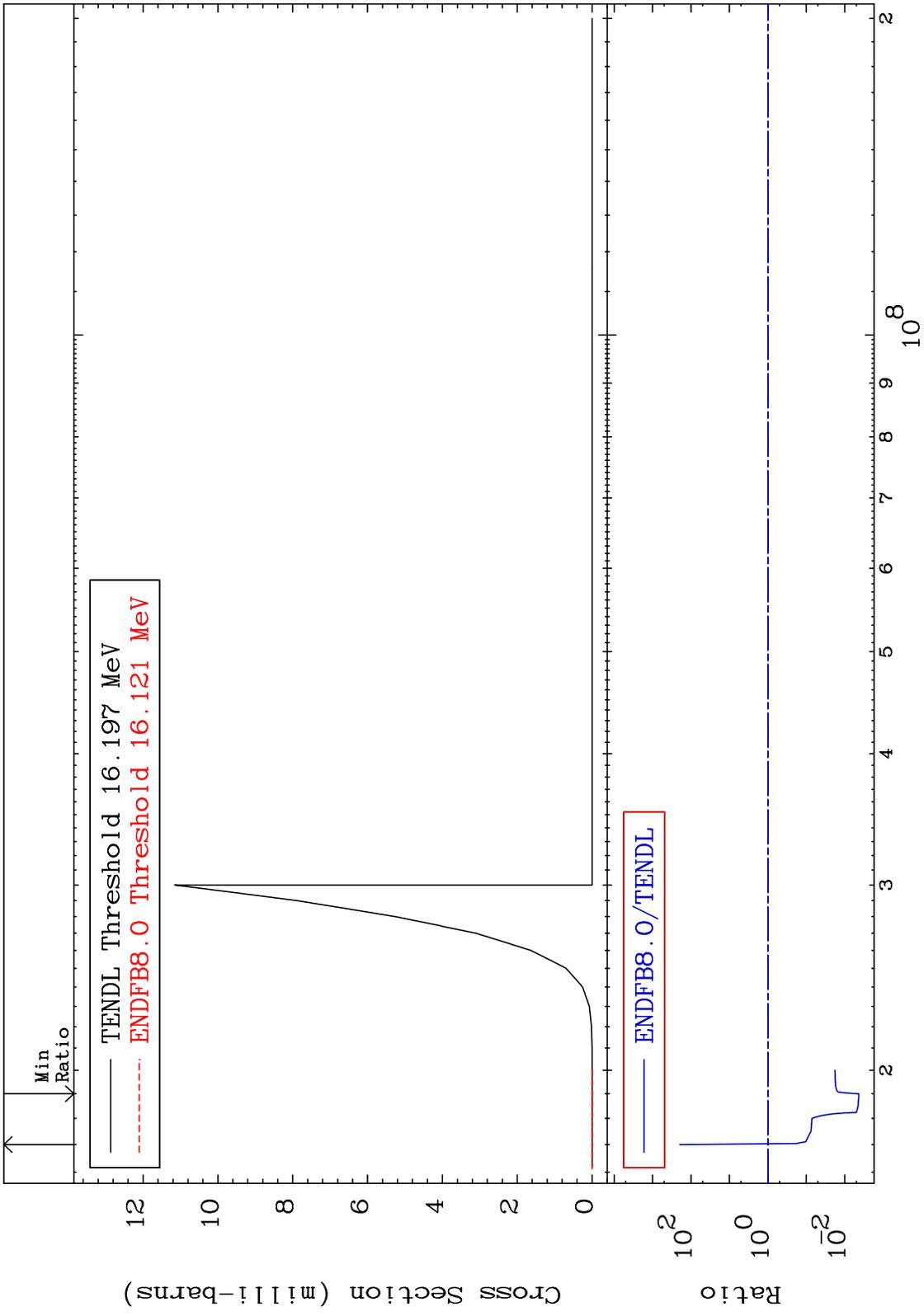
60-Nd-148

MAT 6043 (n,n') p 60-Nd-148
Cross Section -98.64 To 9999. %

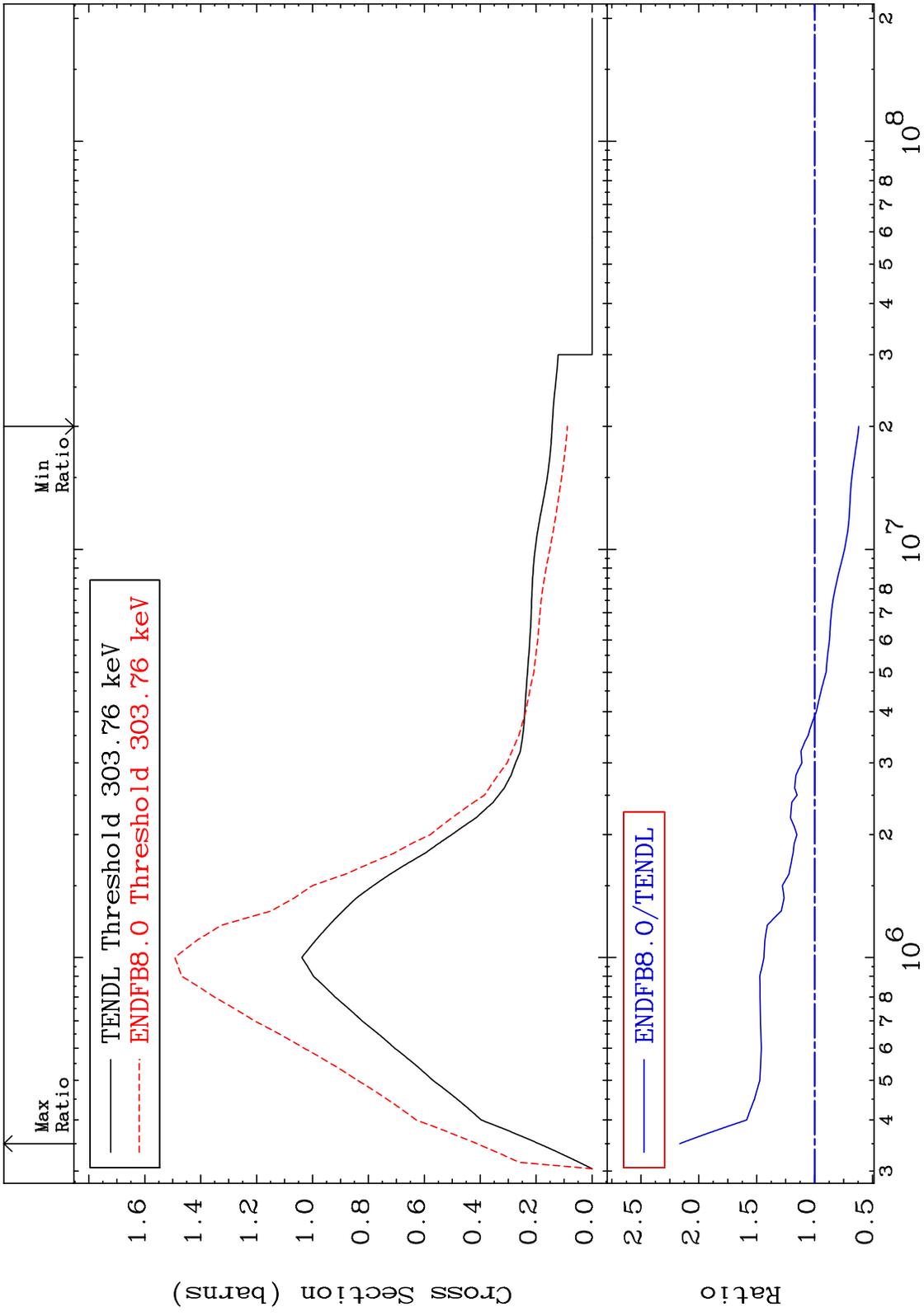


8 60-Nd-148

MAT 6043 (n,2n) p 60-Nd-148
 Cross Section -99.57 To 9999. %

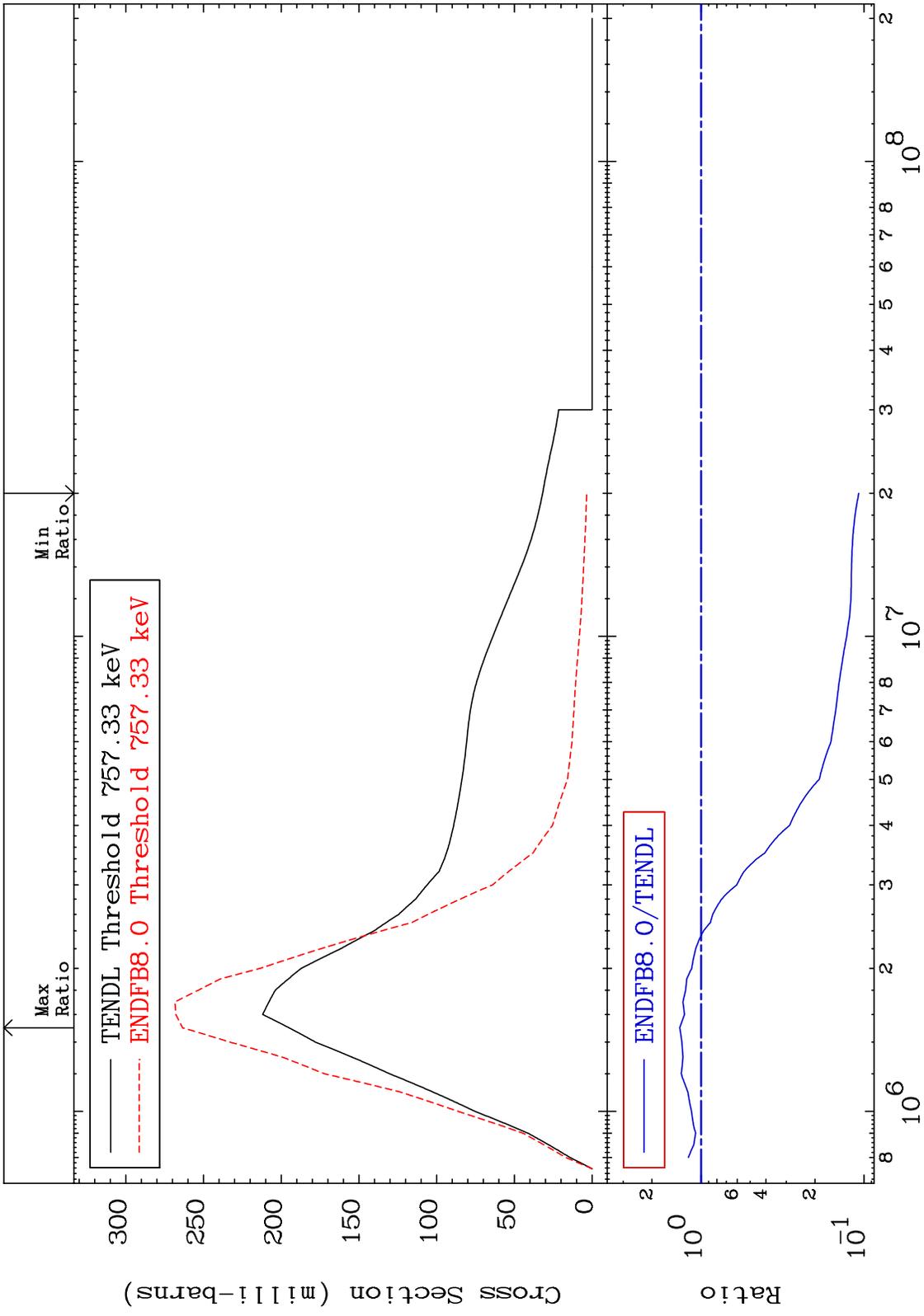


MAT 6043 MT= 51 (n,n') Level Cross Section 60-Nd-148
 -38.13 To 116.4 %

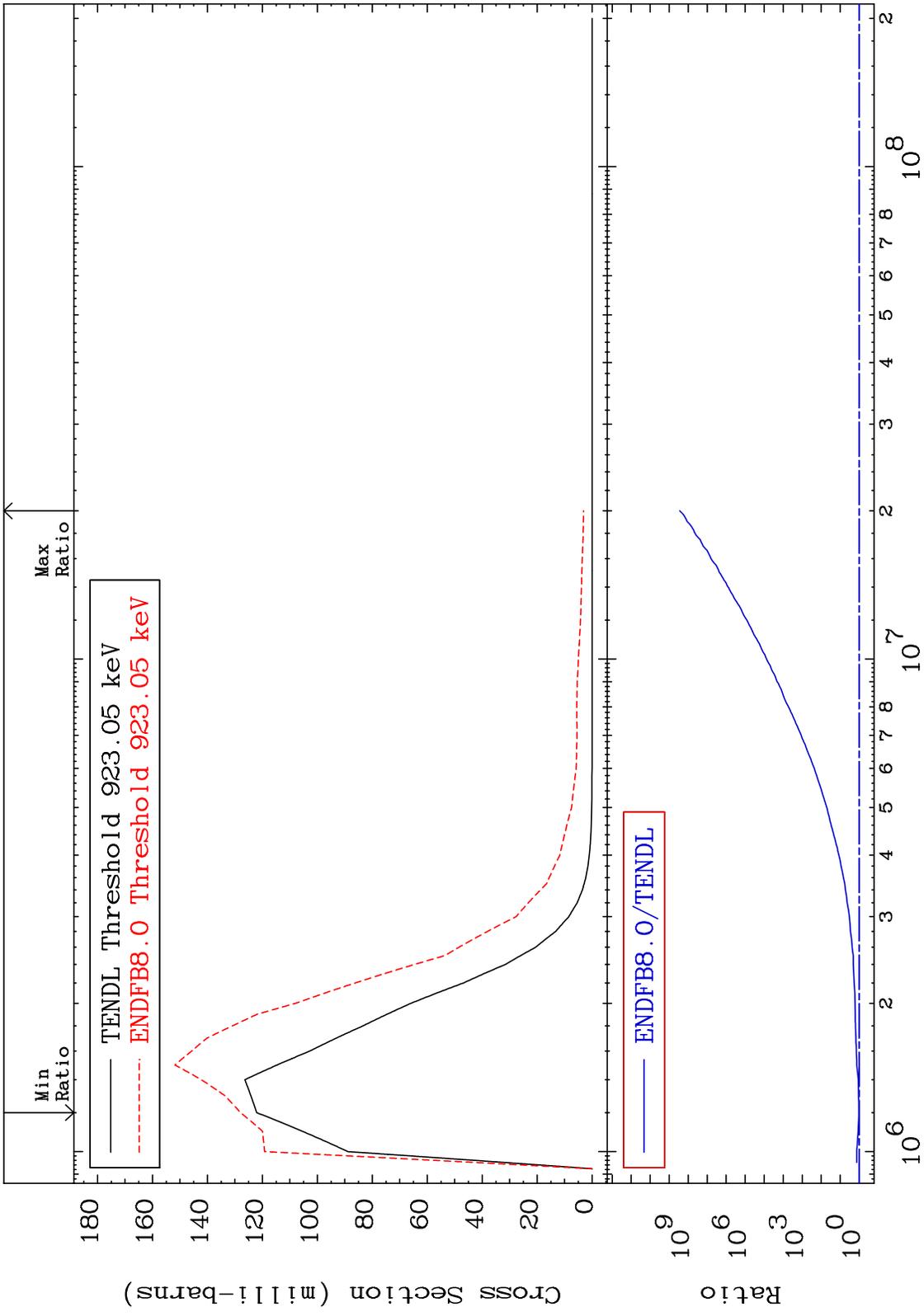


10 Incident Energy (eV) 60-Nd-148

MAT 6043 MT= 52 (n,n') Level Cross Section 60-Nd-148
 -89.24 To 35.09 %

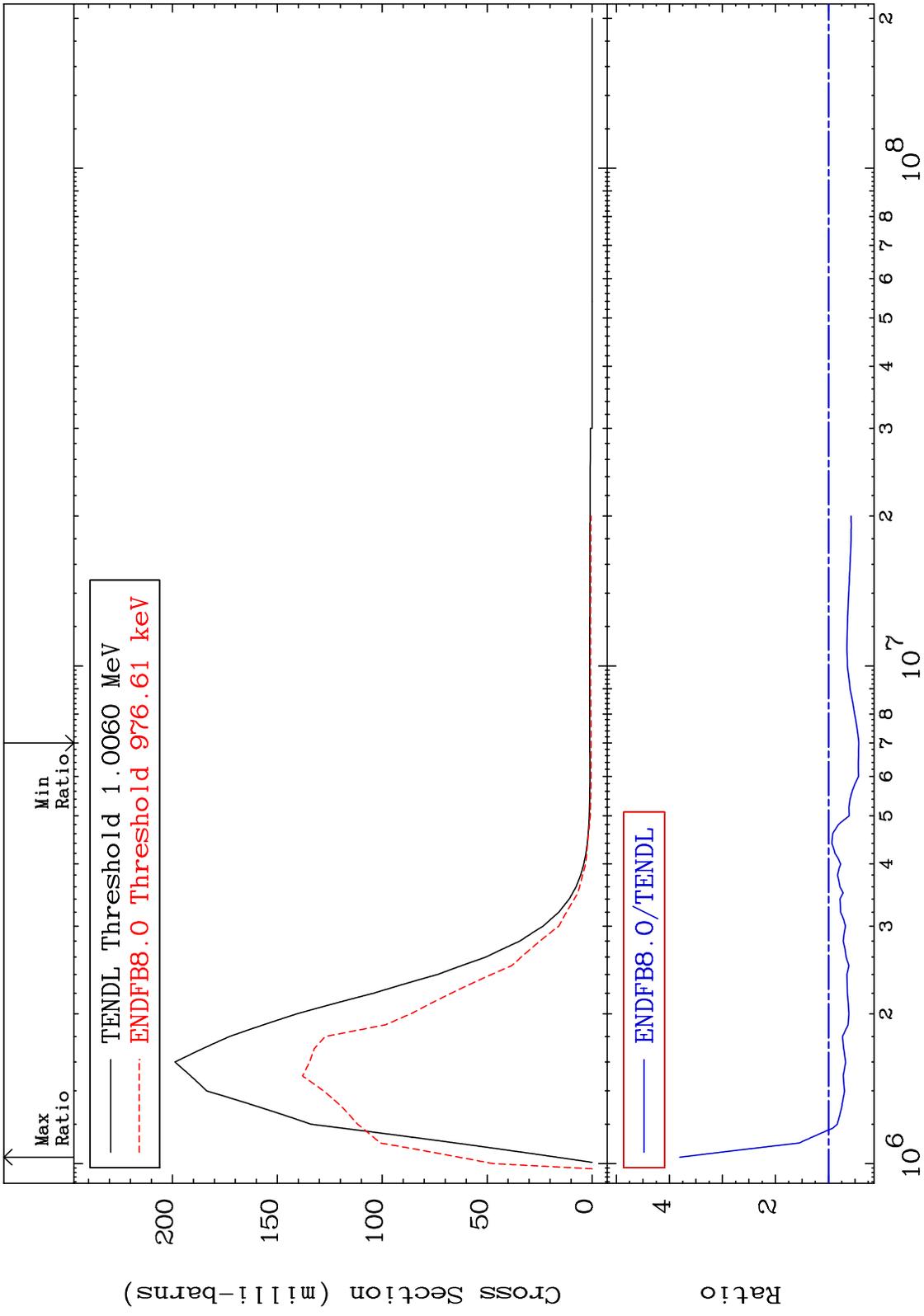


MAT 6043 MT= 53 (n,n') Level Cross Section 60-Nd-148 To 9999. %
 4.811



12 Incident Energy (eV) 60-Nd-148

MAT 6043 MT= 54 (n,n') Level Cross Section 60-Nd-148
 -57.24 To 280.5 %

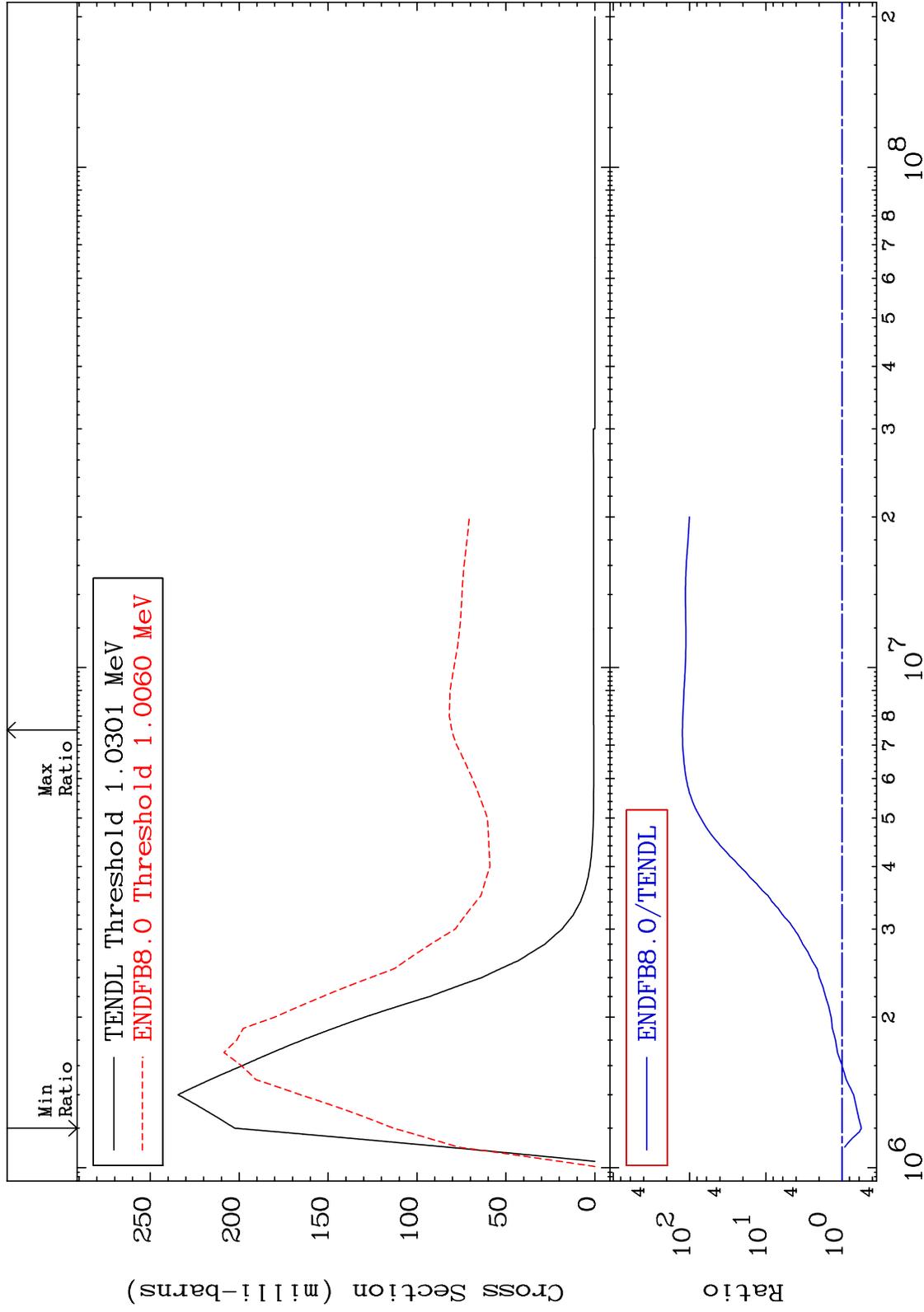


13 Incident Energy (eV) 60-Nd-148

MAT 6043

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

60-Nd-148
-44.08 To 9999. %

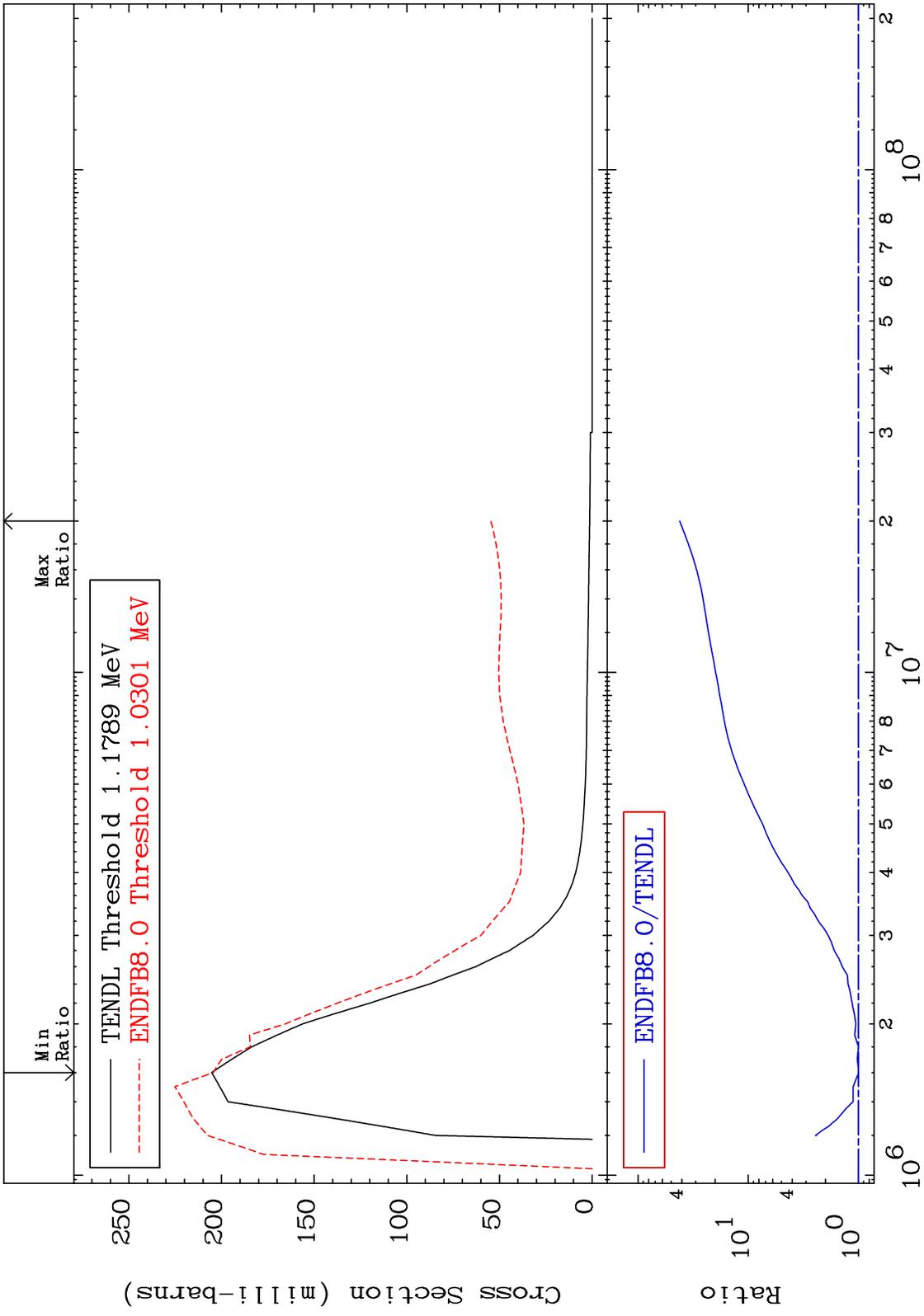


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Incident Energy (eV)

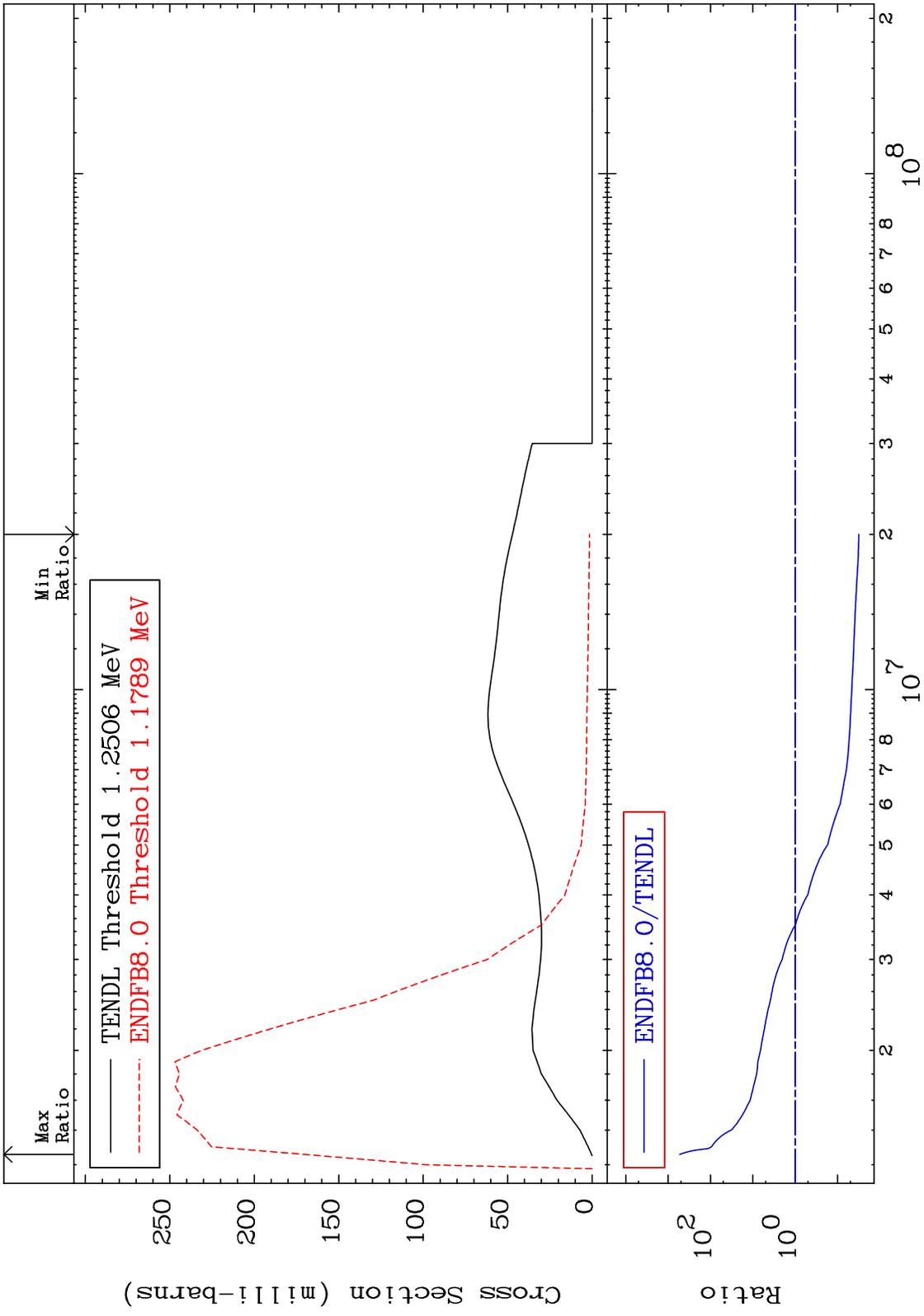
60-Nd-148

MAT 6043 MT= 56 (n,n') Level Cross Section 60-Nd-148
 -0.375 To 4082. %

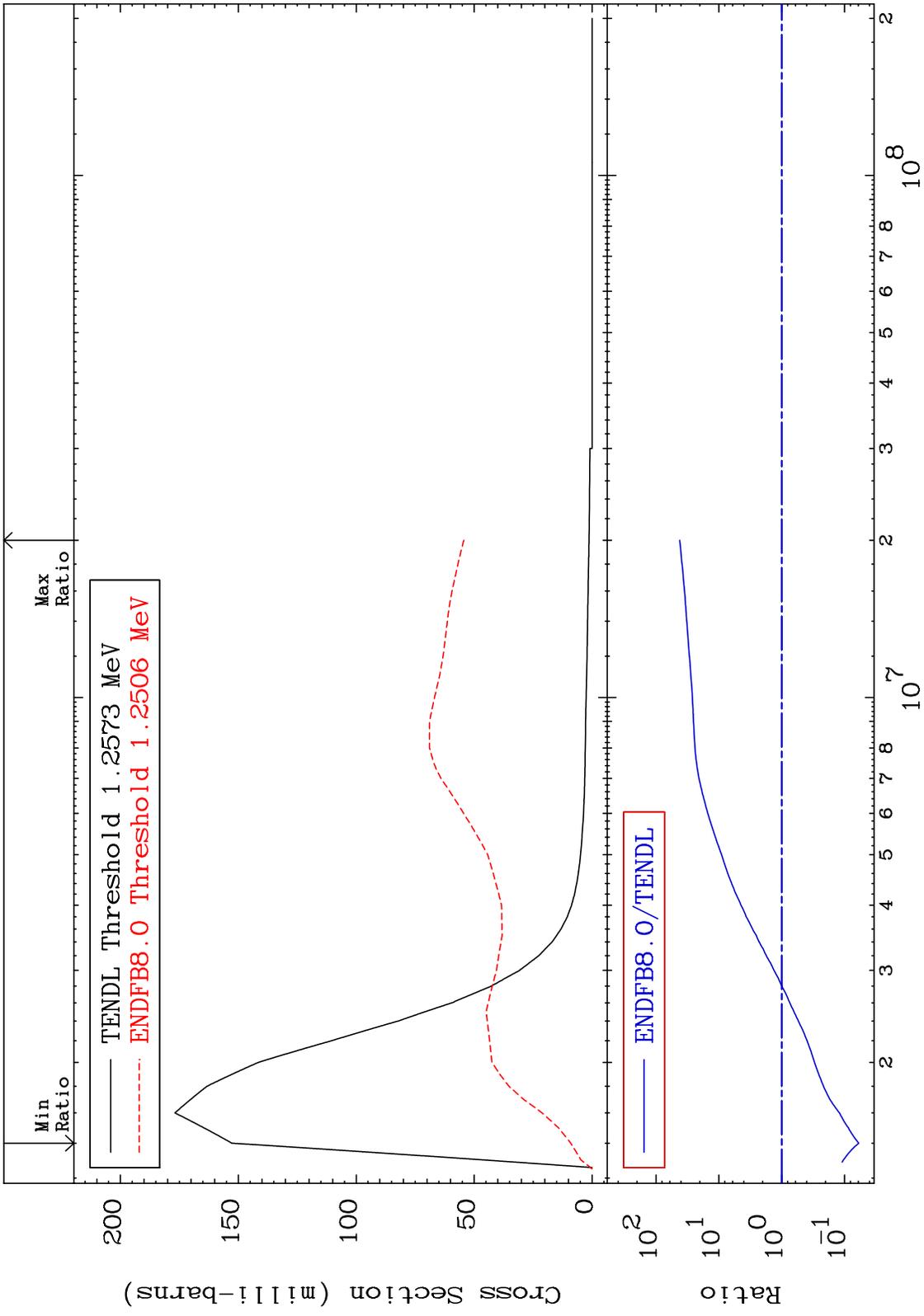


15 Incident Energy (eV) 60-Nd-148

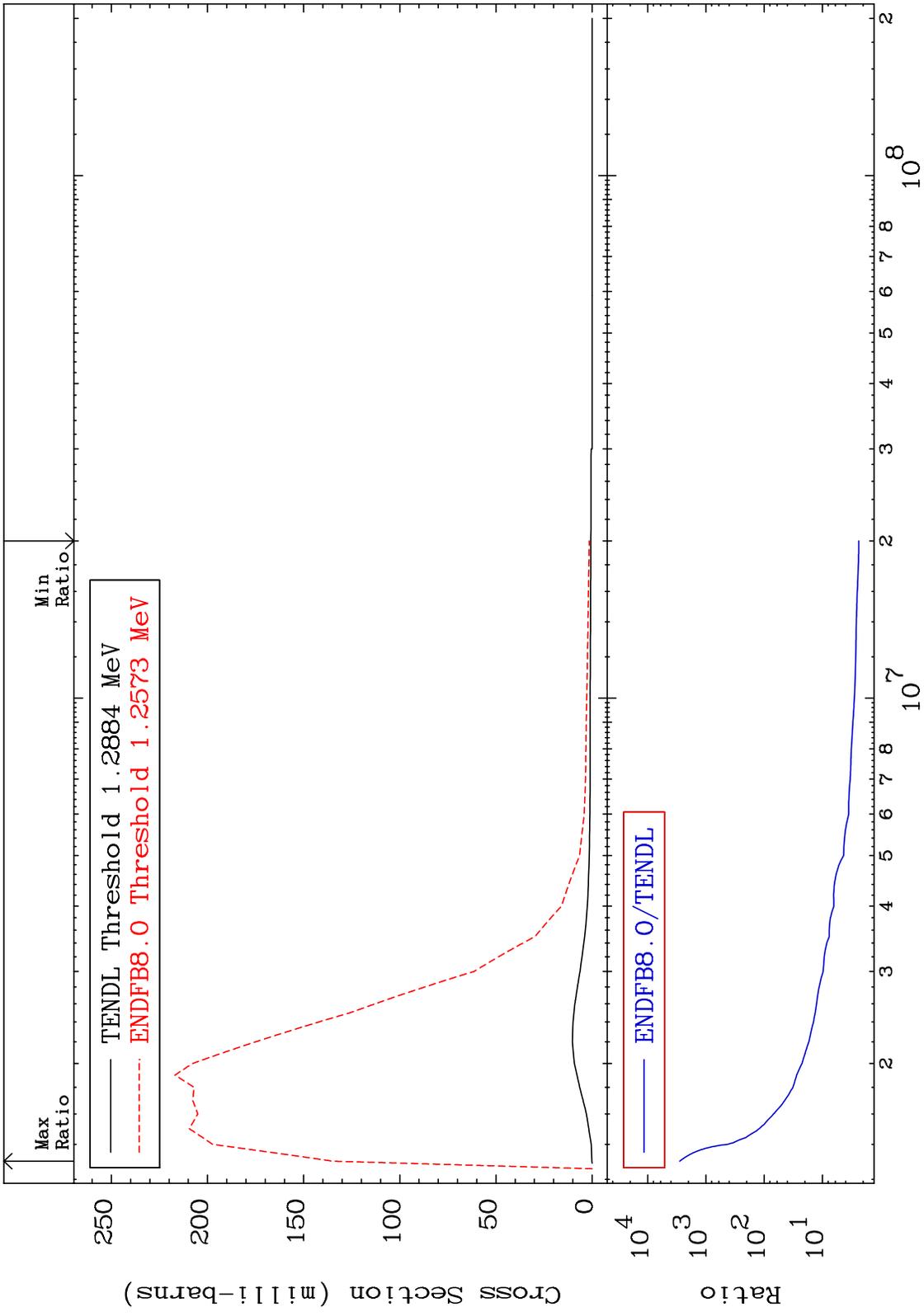
MAT 6043 MT= 57 (n,n') Level Cross Section 60-Nd-148
 -96.84 To 9999. %



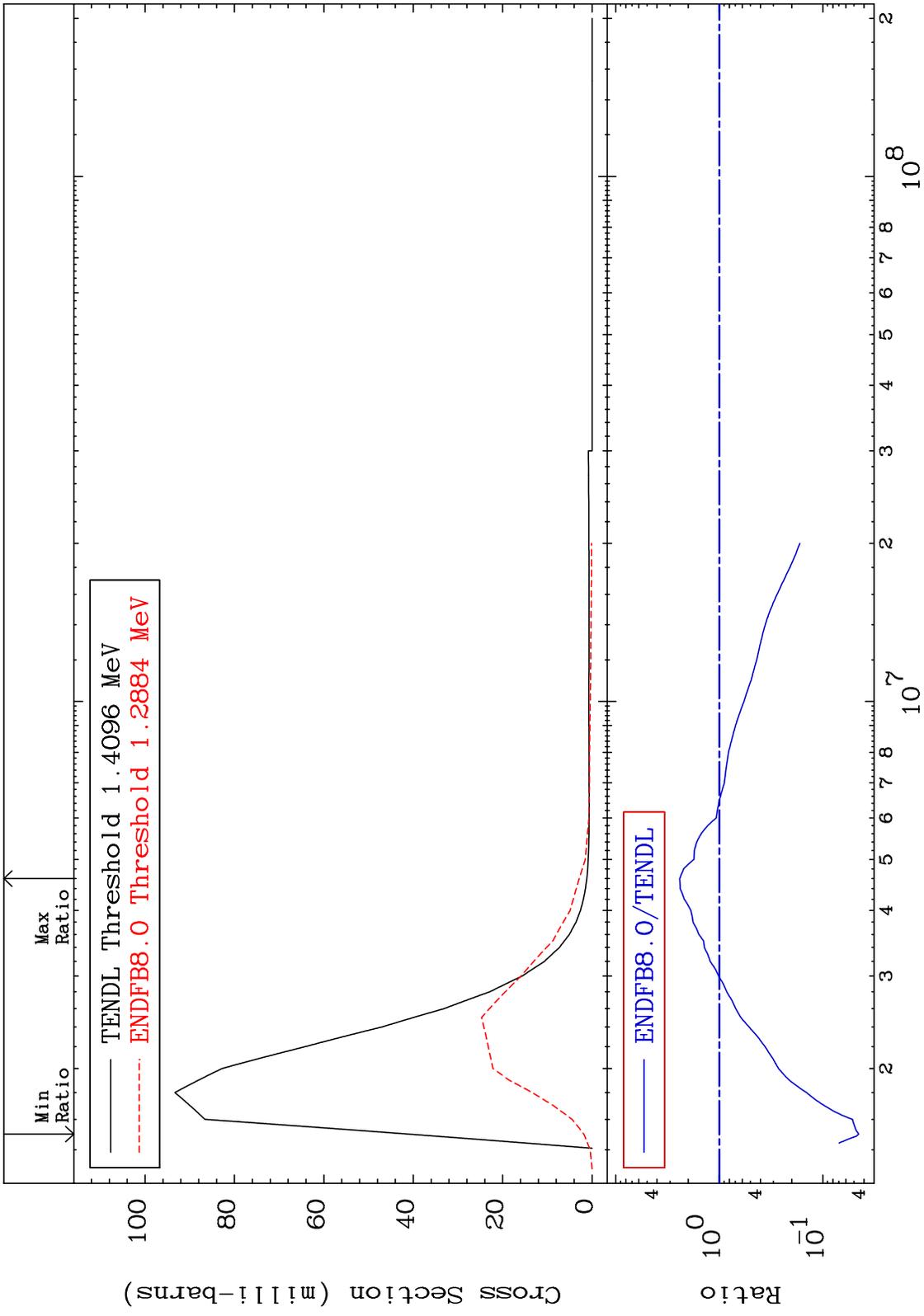
MAT 6043 MT= 58 (n,n') Level Cross Section 60-Nd-148
 -94.09 To 4079. %



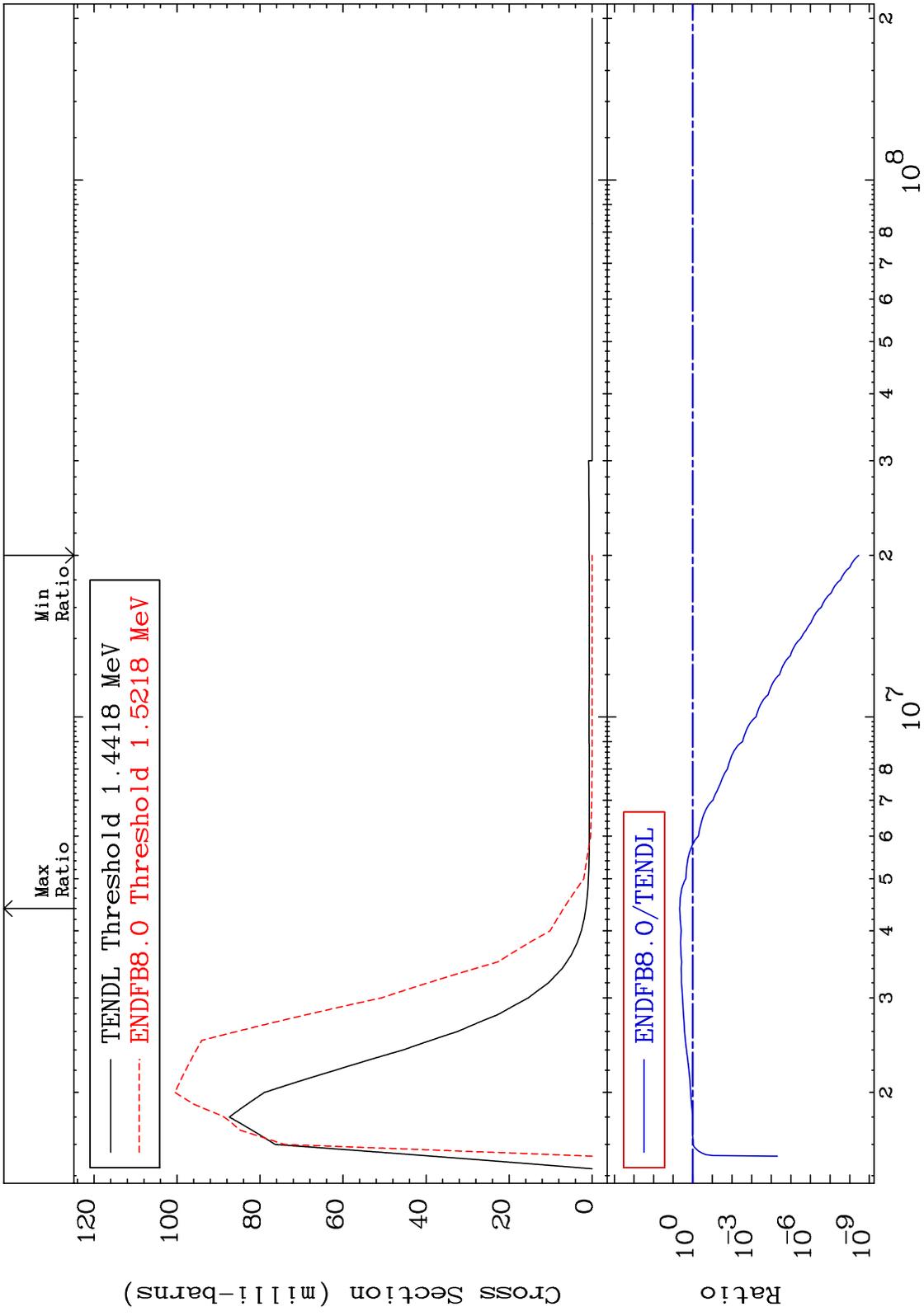
MAT 6043 MT= 59 (n,n') Level Cross Section 60-Nd-148 137.8 To 9999. %



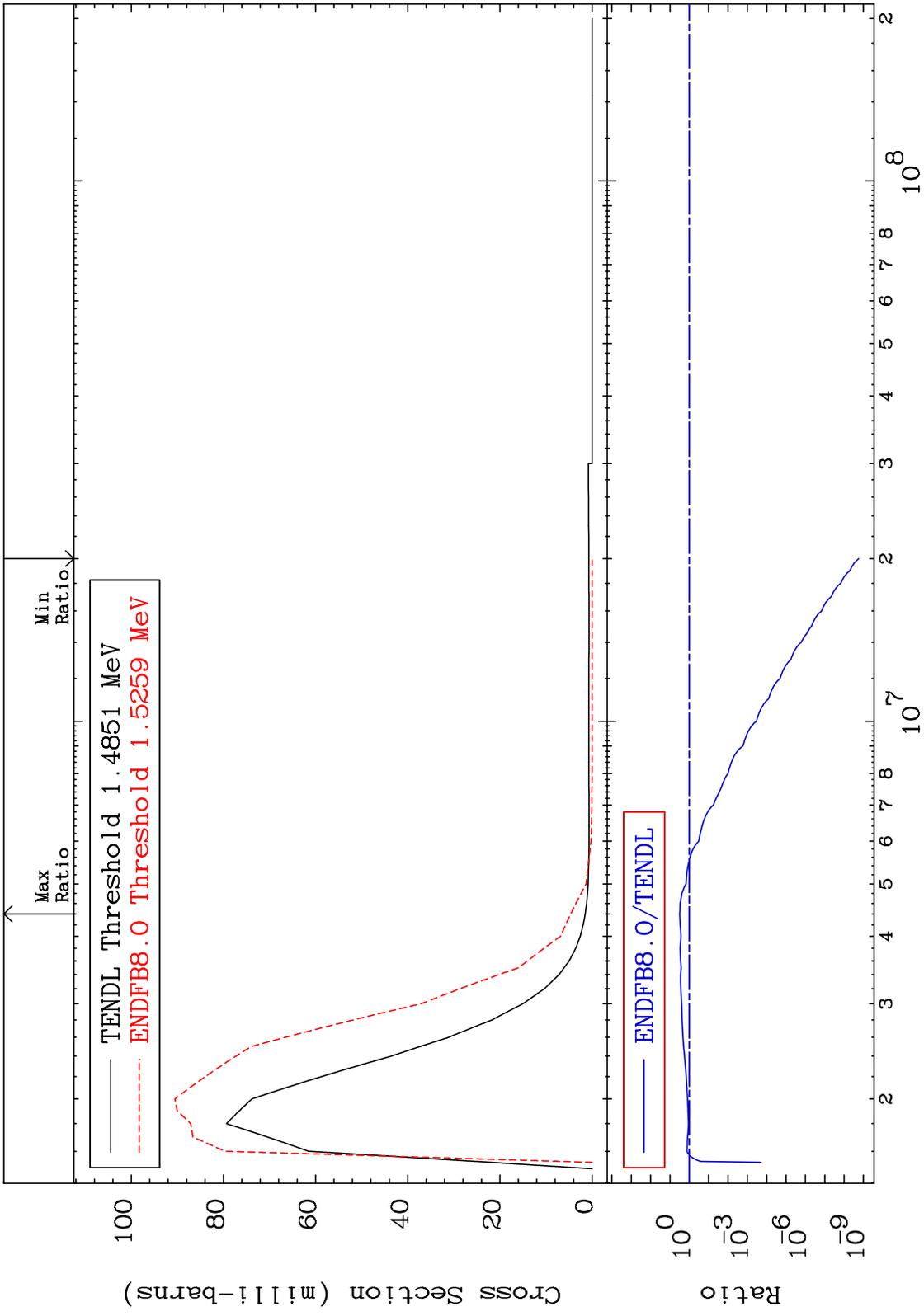
MAT 6043 MT= 60 (n,n') Level Cross Section 60-Nd-148
 -95.51 To 141.2 %



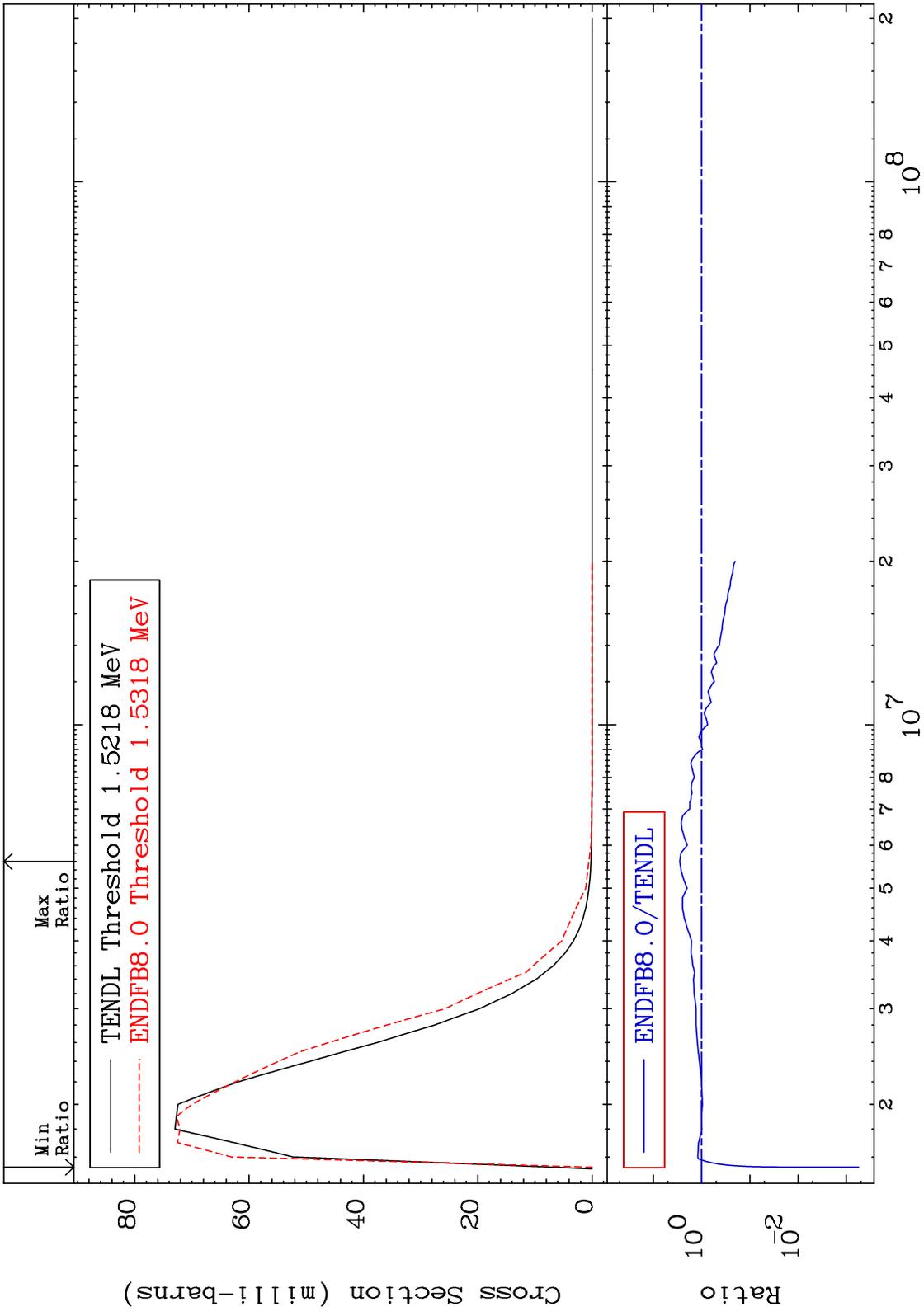
MAT 6043 MT= 61 (n,n') Level Cross Section 60-Nd-148
 -100.0 To 362.5 %



MAT 6043 MT= 62 (n,n') Level Cross Section 60-Nd-148
 -100.0 To 211.9 %



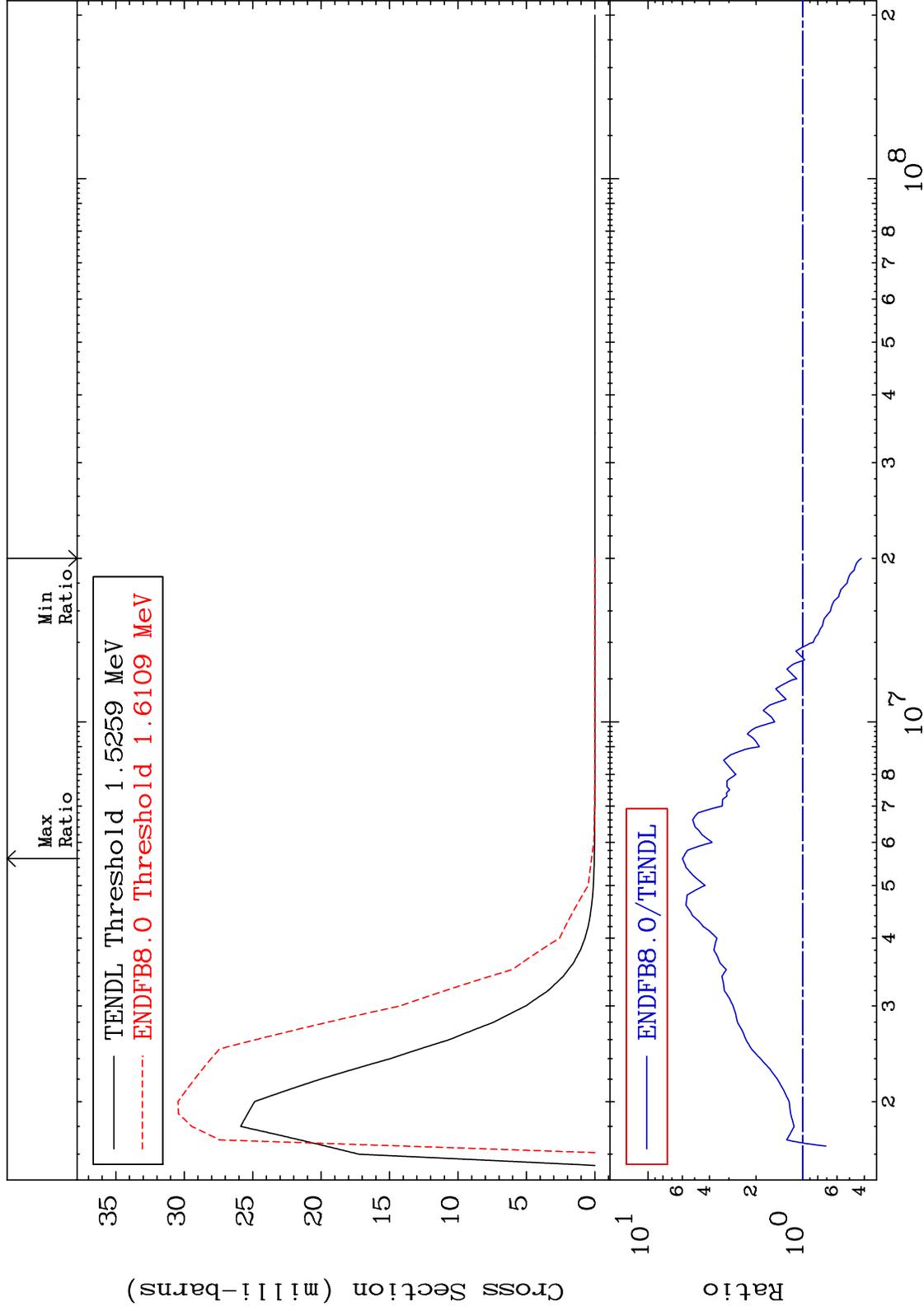
MAT 6043 MT= 63 (n,n') Level Cross Section 60-Nd-148 -99.94 To 184.7 %



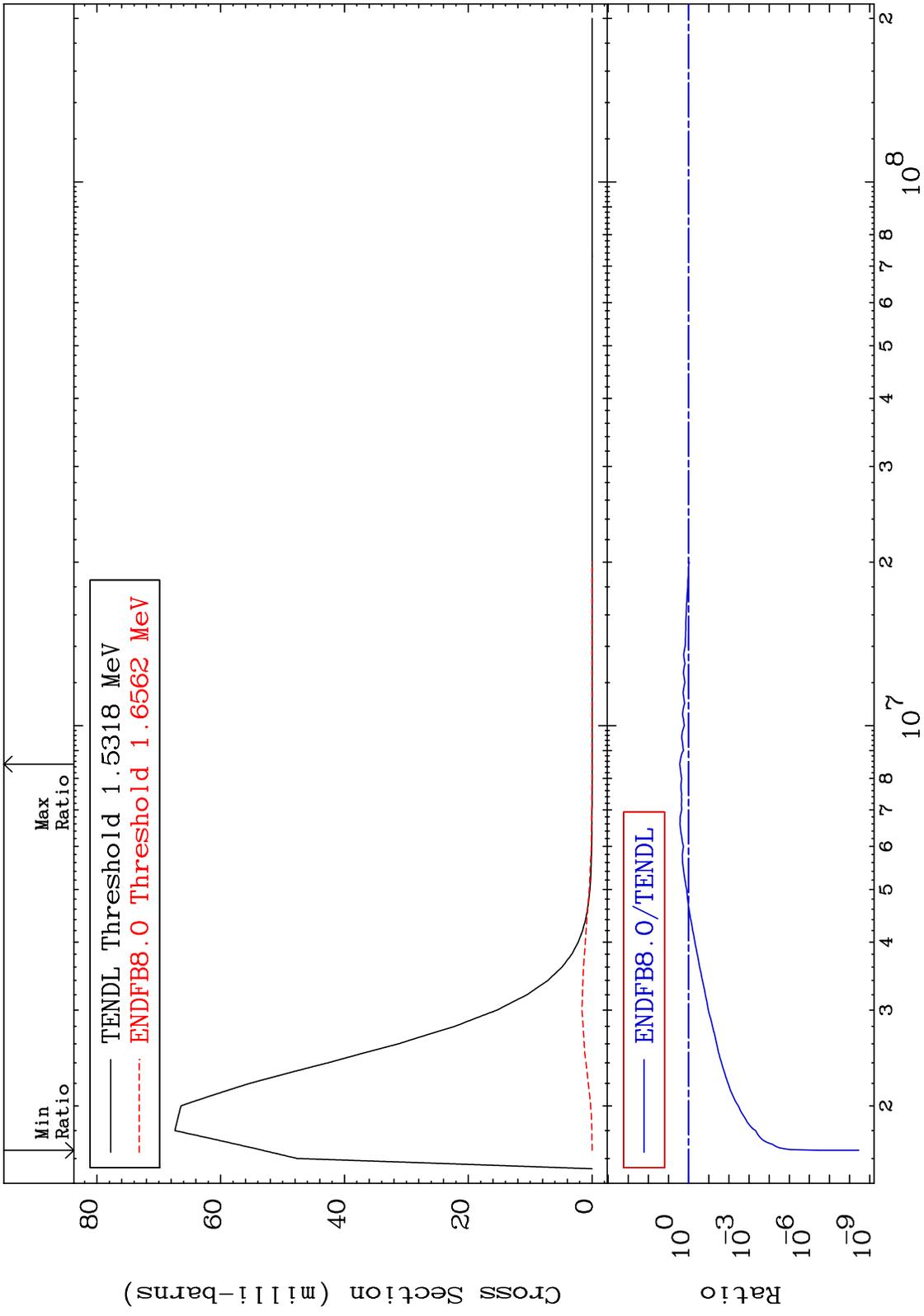
MAT 6043

MT= 64 (n,n') Level
Cross Section

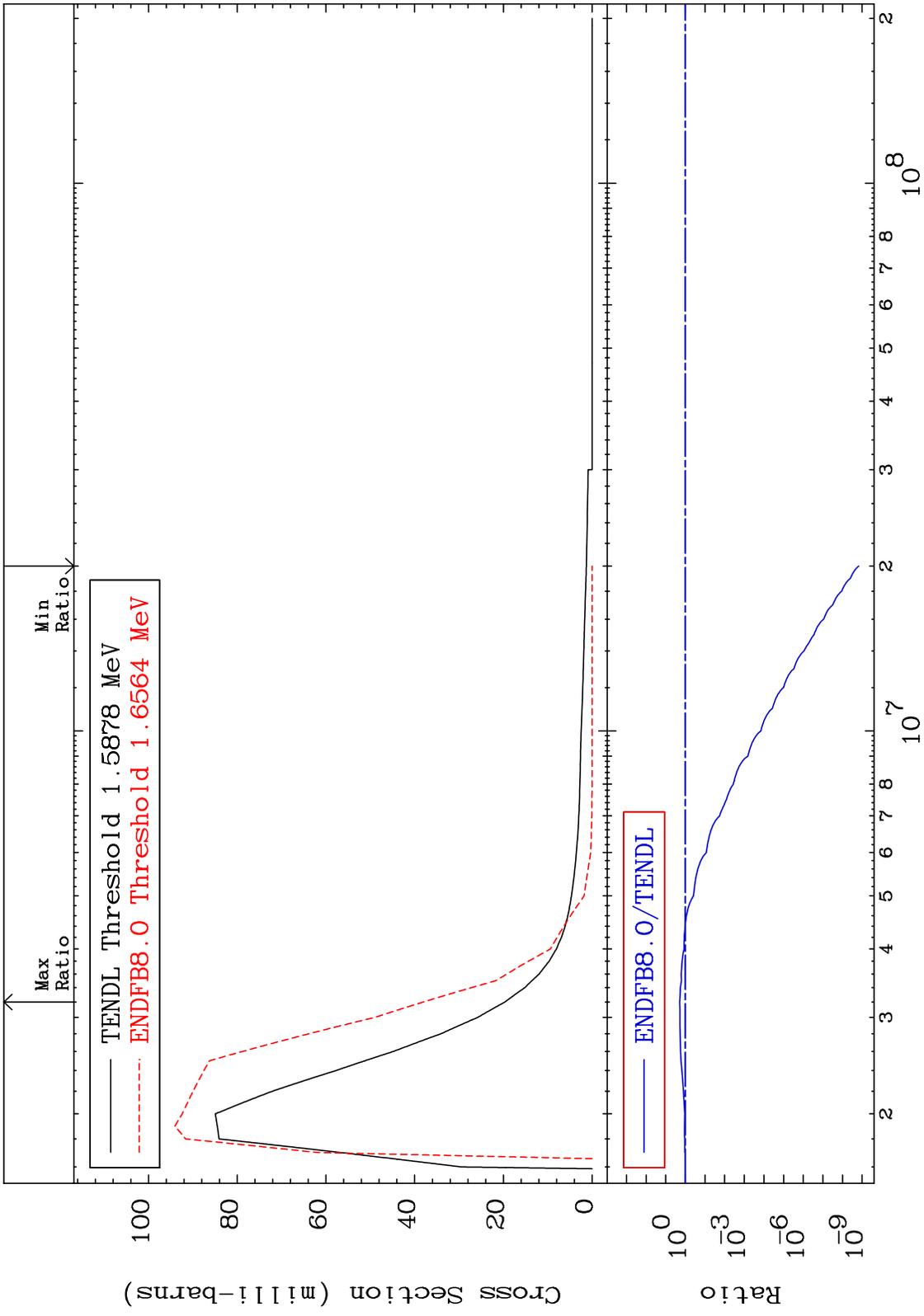
60-Nd-148
-58.15 To 498.9 %



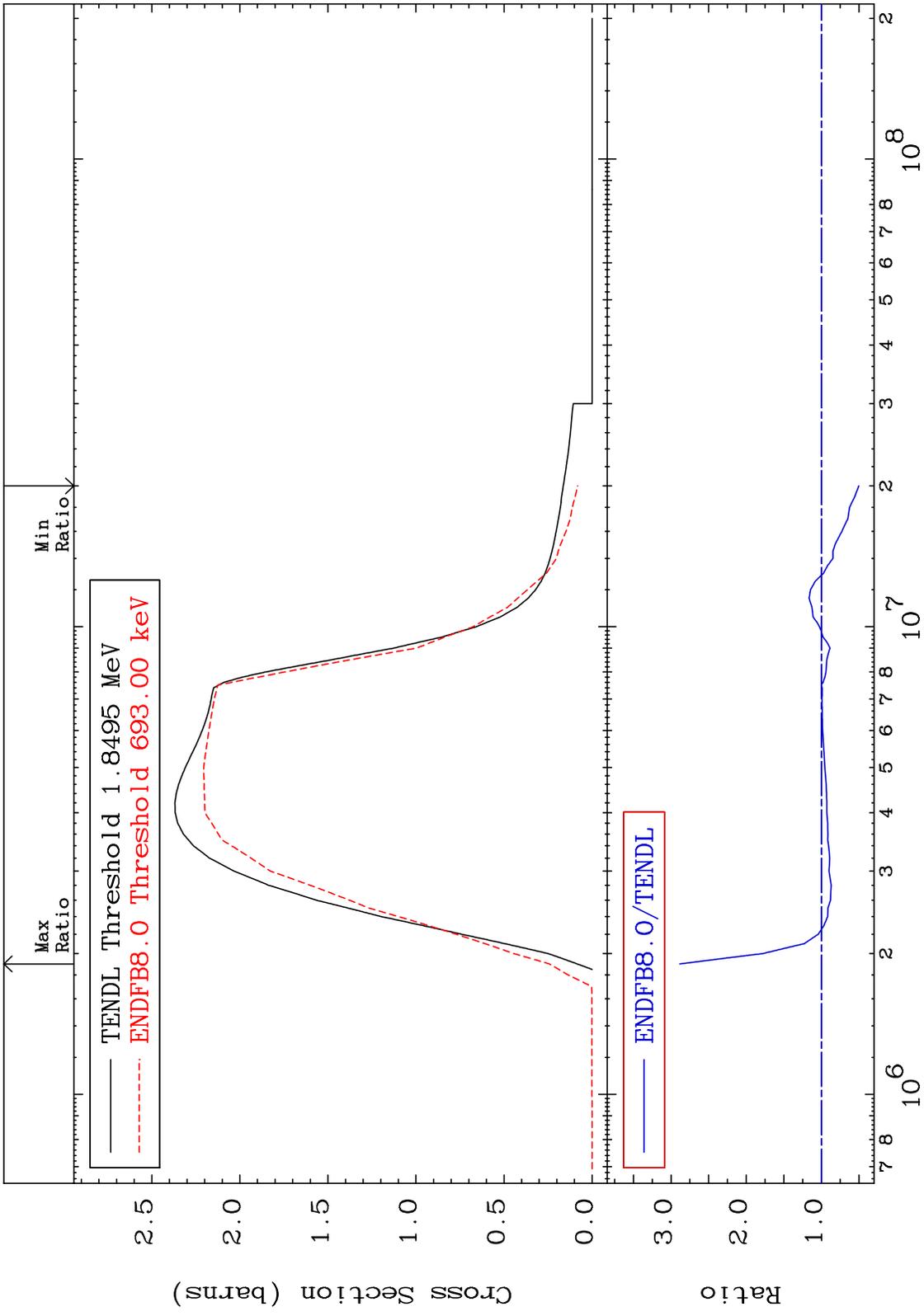
MAT 6043 MT= 65 (n,n') Level Cross Section 60-Nd-148
 -100.0 To 177.8 %



MAT 6043 MT= 66 (n,n') Level Cross Section 60-Nd-148
 -100.0 To 93.45 %



MAT 6043 (n, n') Continuum Cross Section 60-Nd-148 -49.69 To 188.4 %



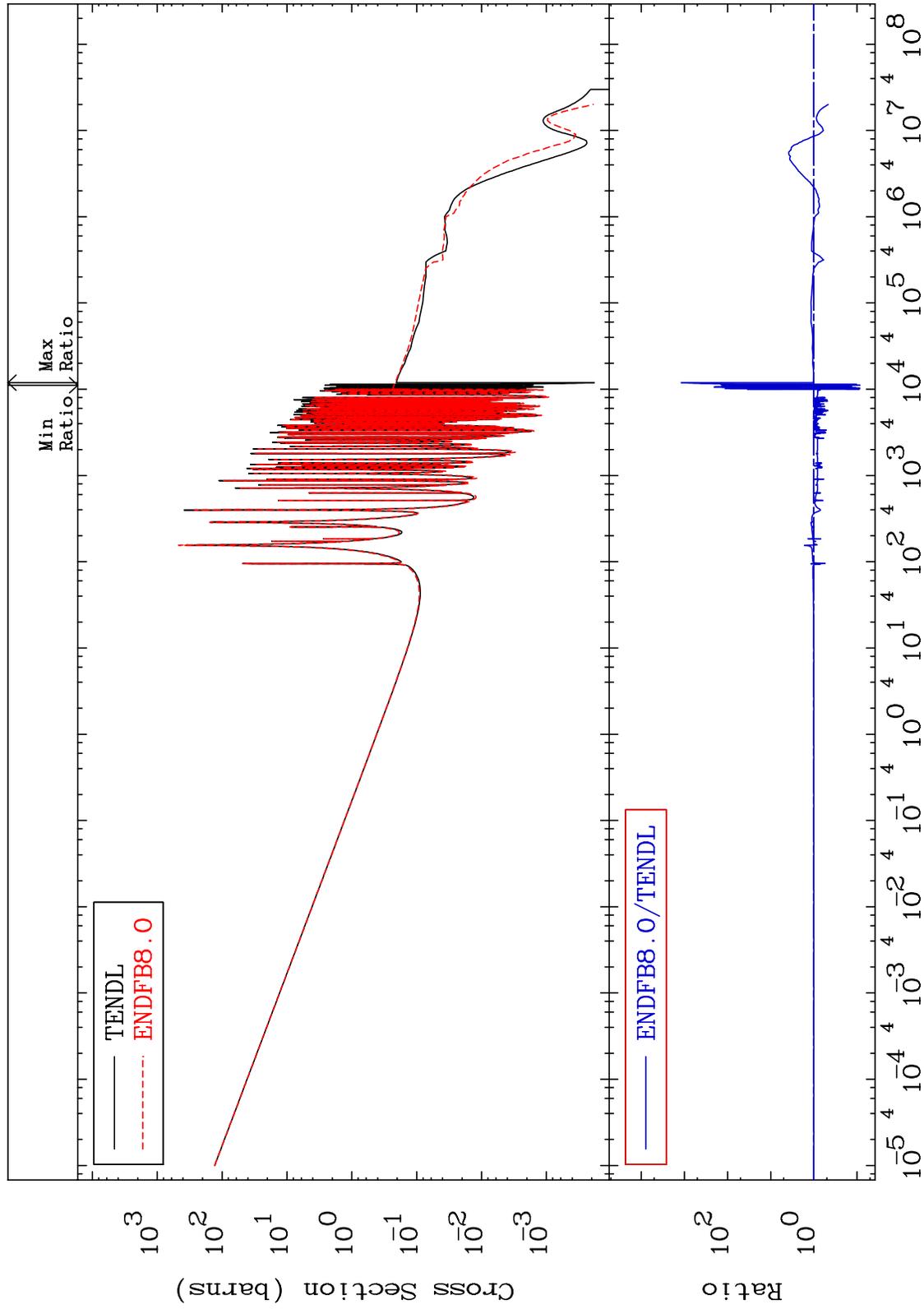
MAT 6043

(n, γ)

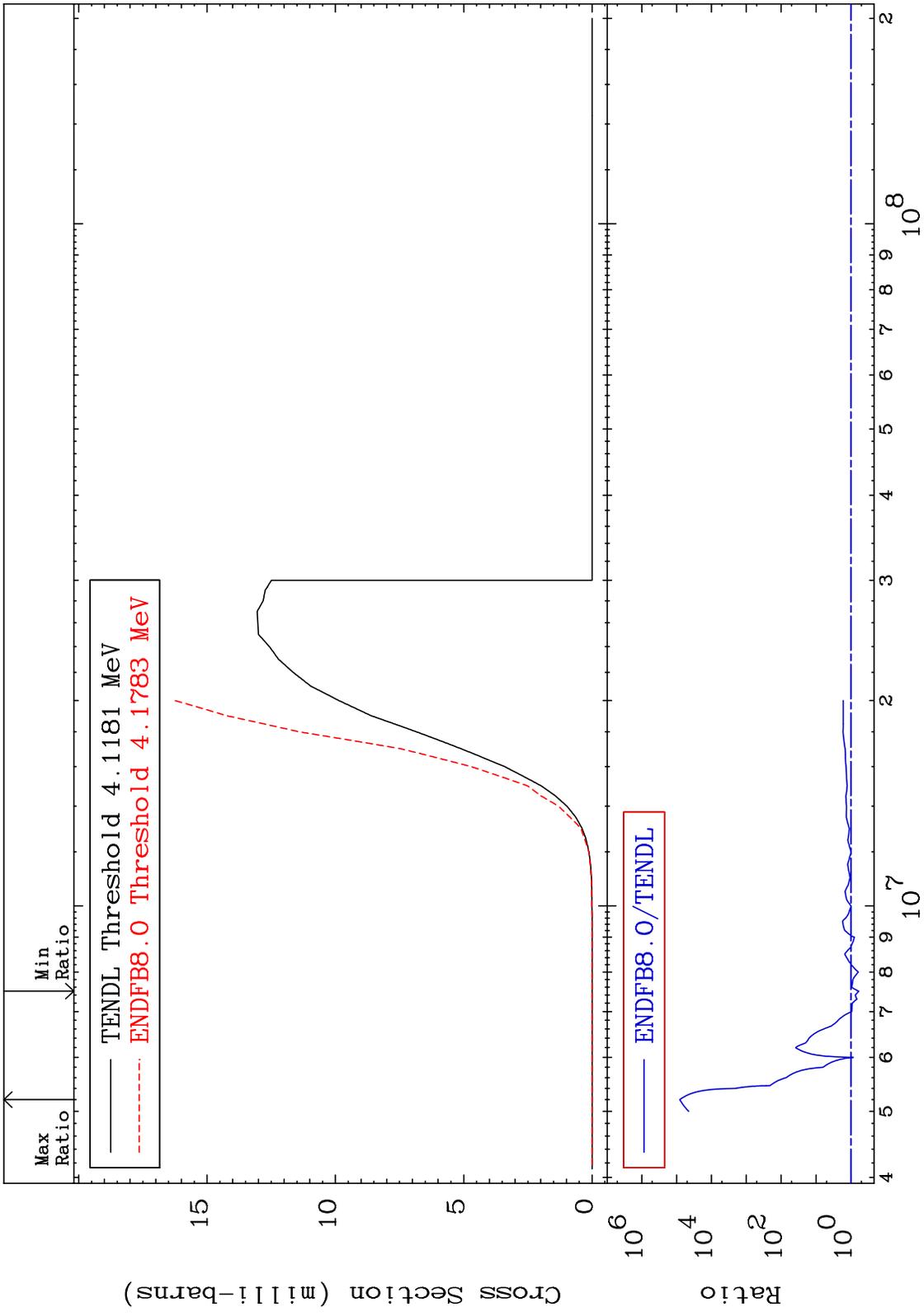
60-Nd-148

Cross Section

-91.38 To 9999. %

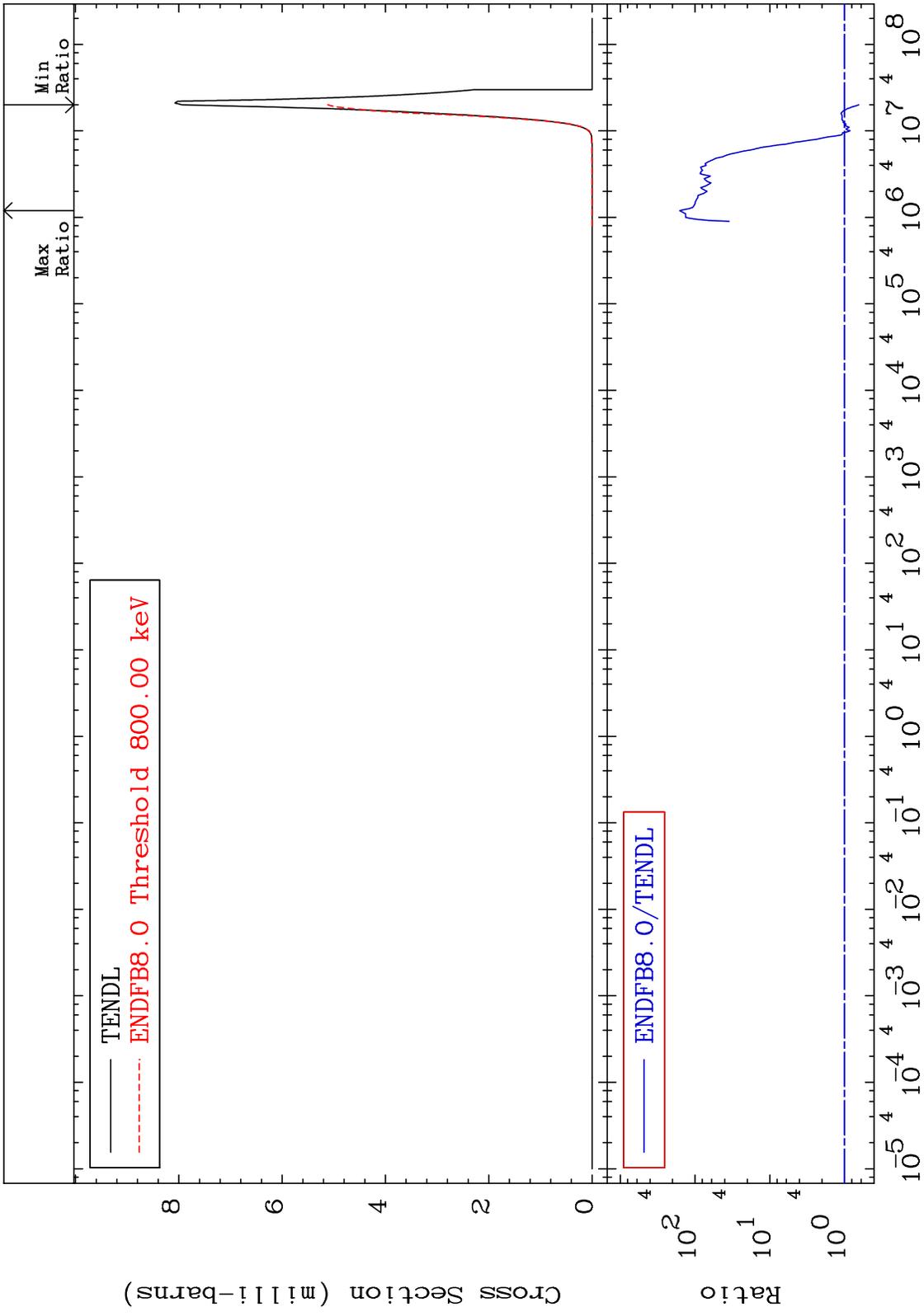


MAT 6043 (n,p) Cross Section 60-Nd-148
 -40.87 To 9999. %



28 Incident Energy (eV) 60-Nd-148

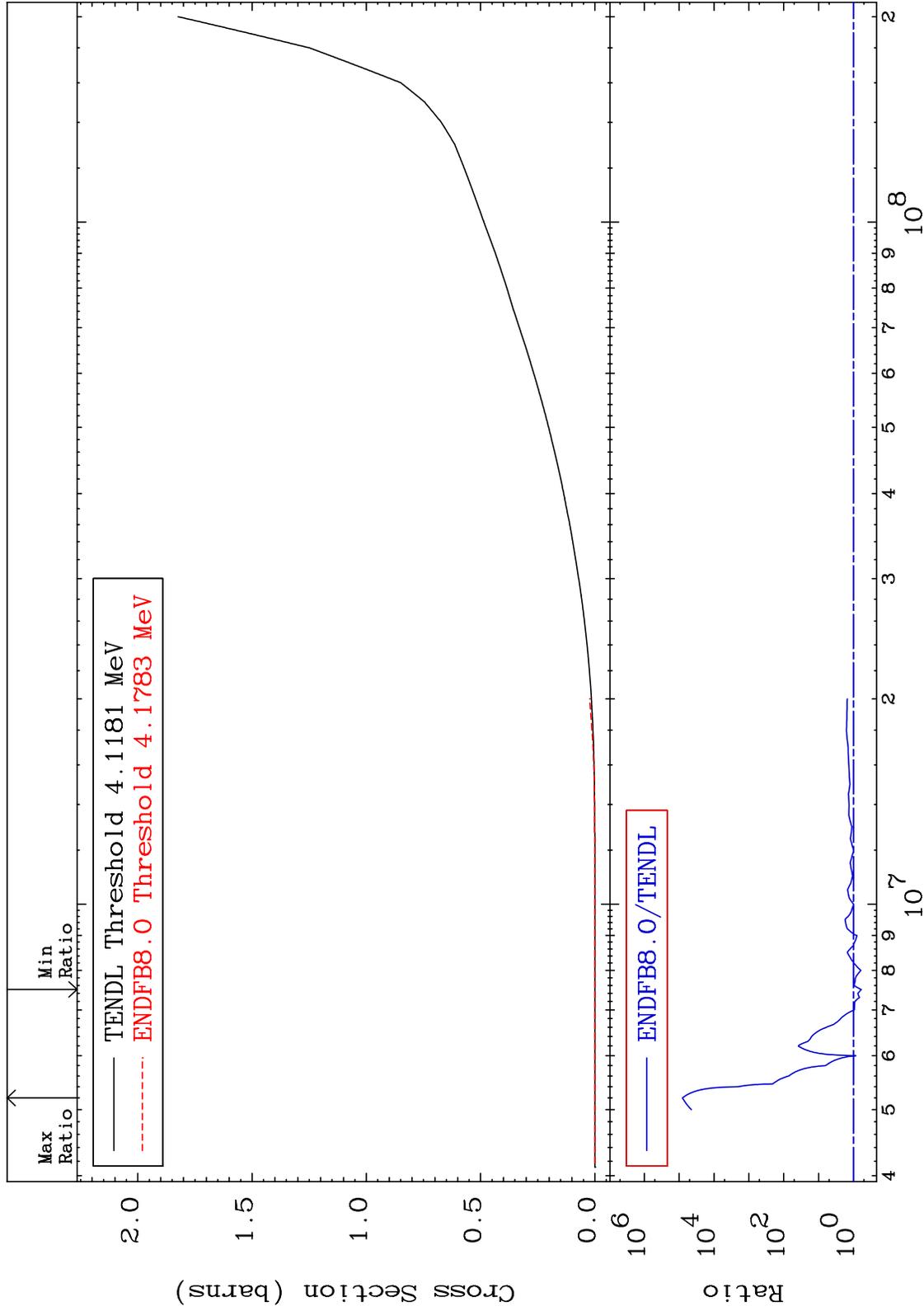
MAT 6043 (n,α) Cross Section 60-Nd-148 -35.60 To 9999. %



MAT 6043

Hydrogen Production
Cross Section

60-Nd-148
-40.87 To 9999. %



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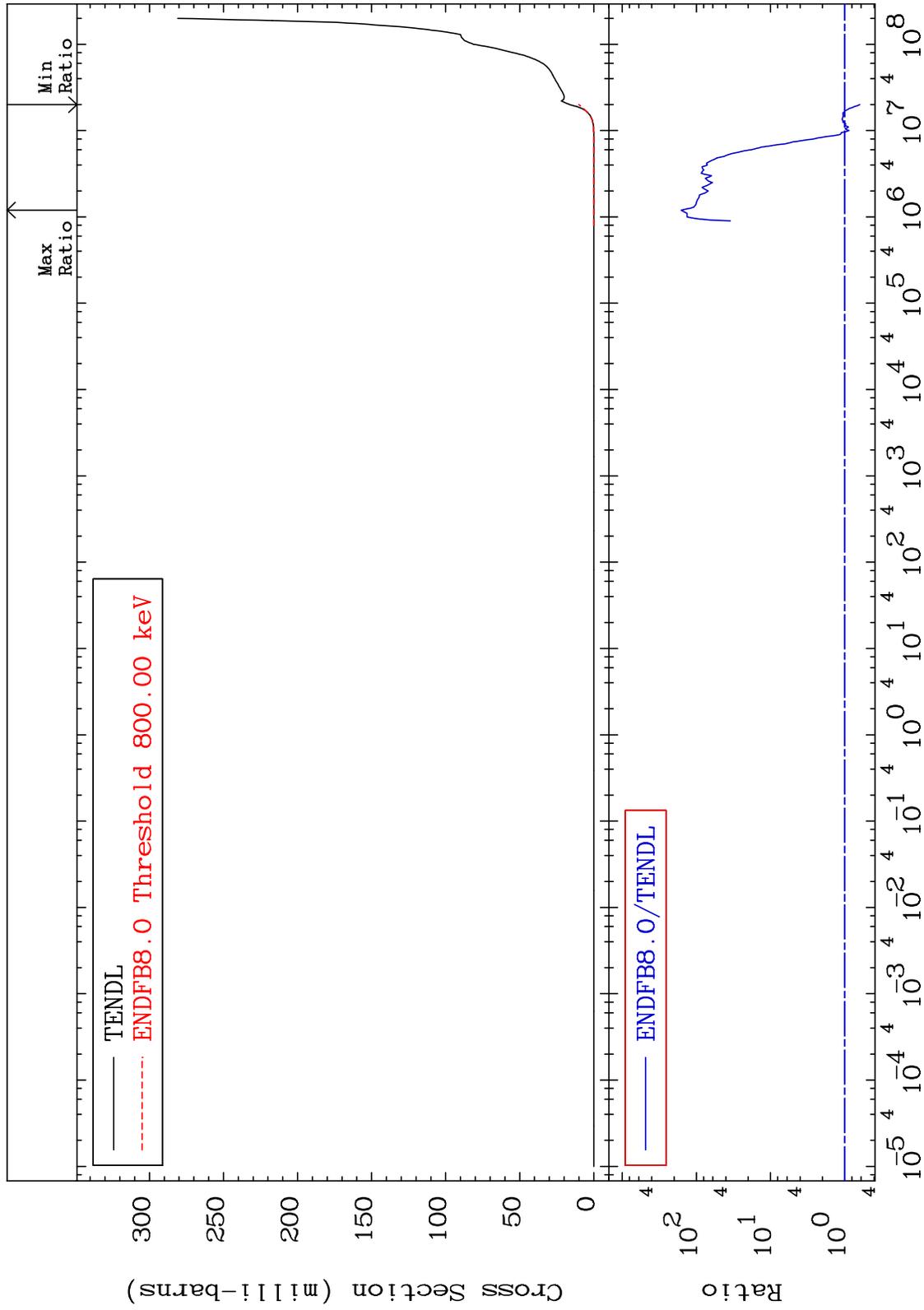
Incident Energy (eV)

60-Nd-148

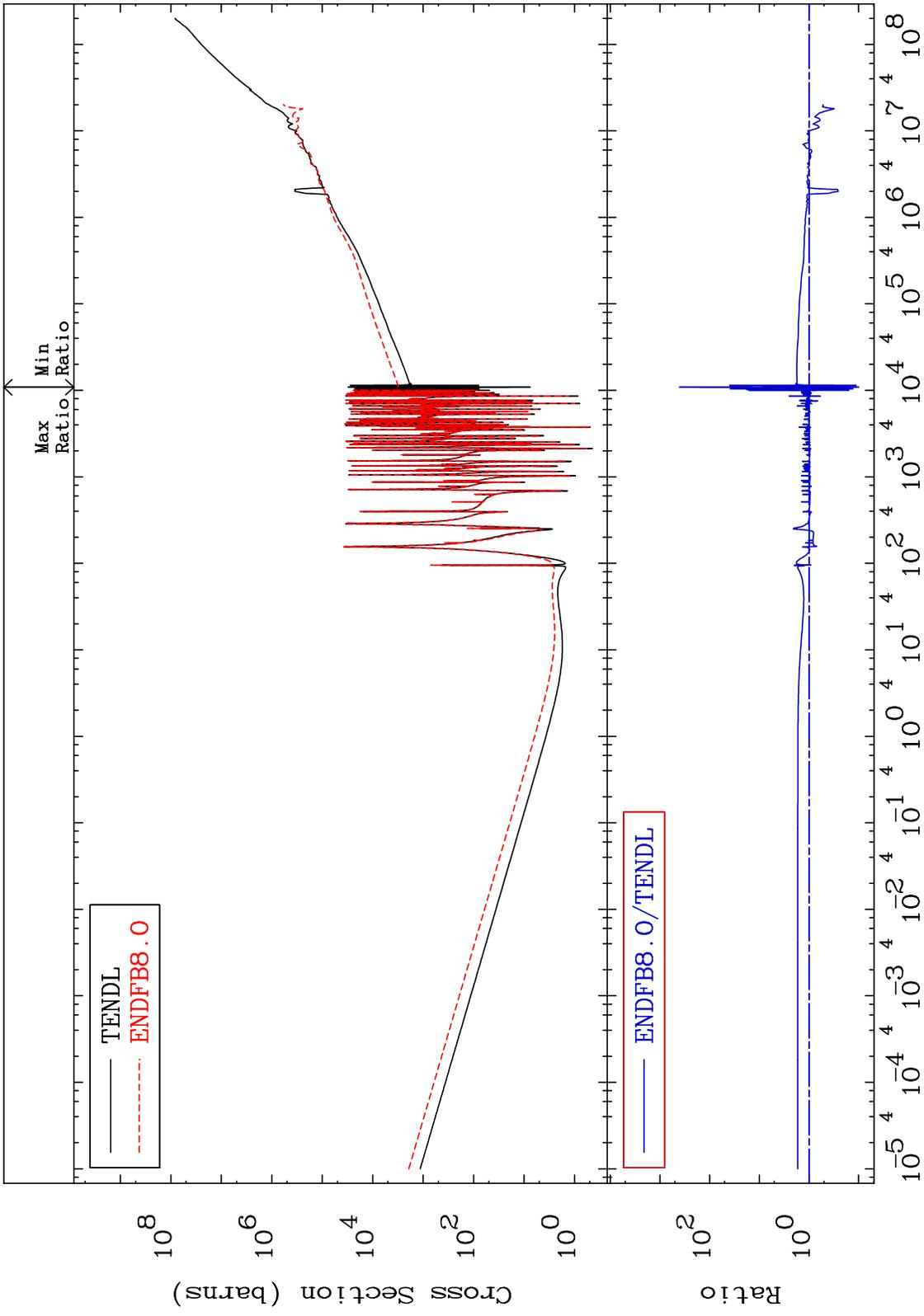
MAT 6043

He-4 Production
Cross Section

60-Nd-148
-37.44 To 9999. %



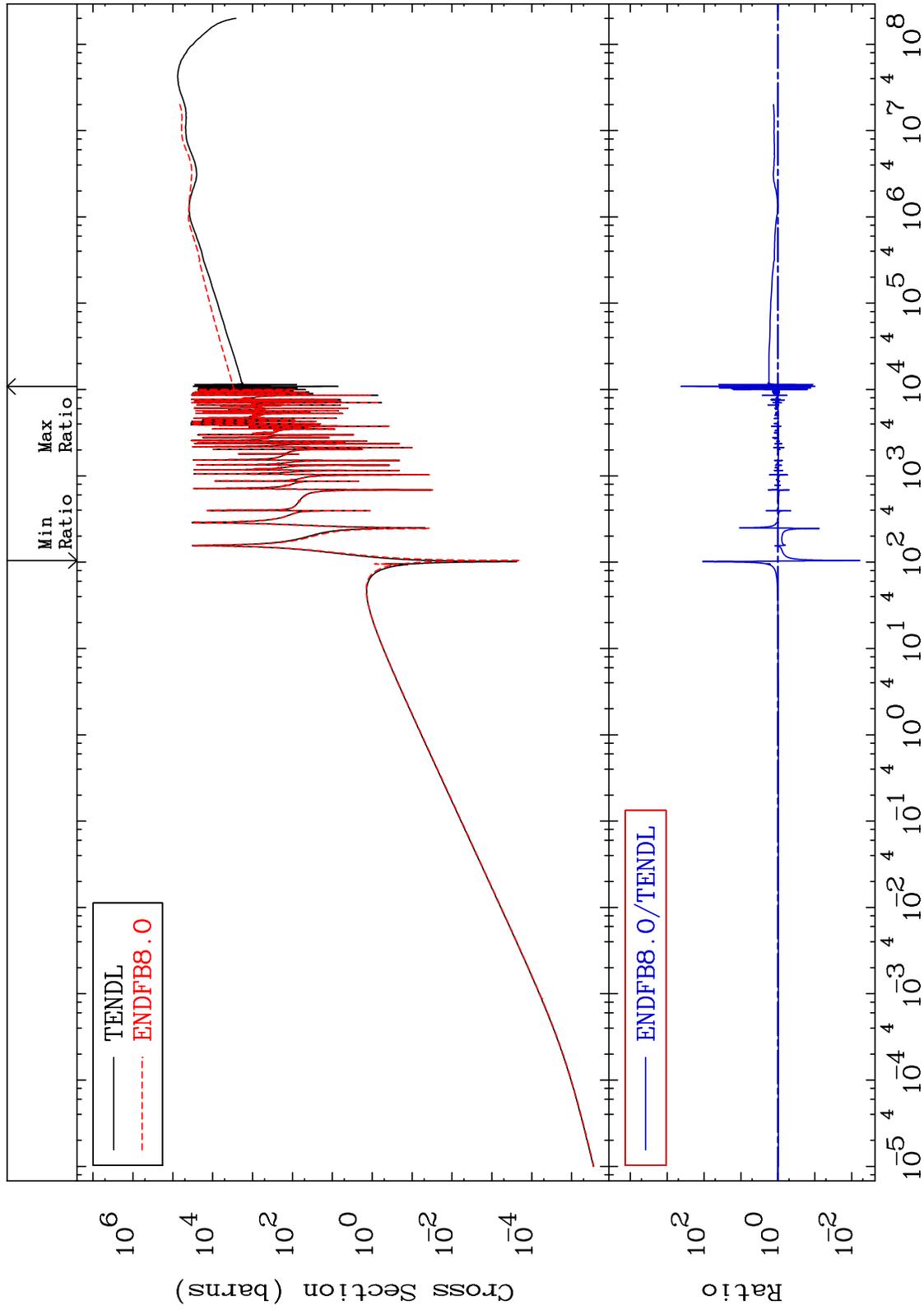
MAT 6043 Kerma total (eV-barns) 60-Nd-148
 Cross Section -90.07 To 9999. %



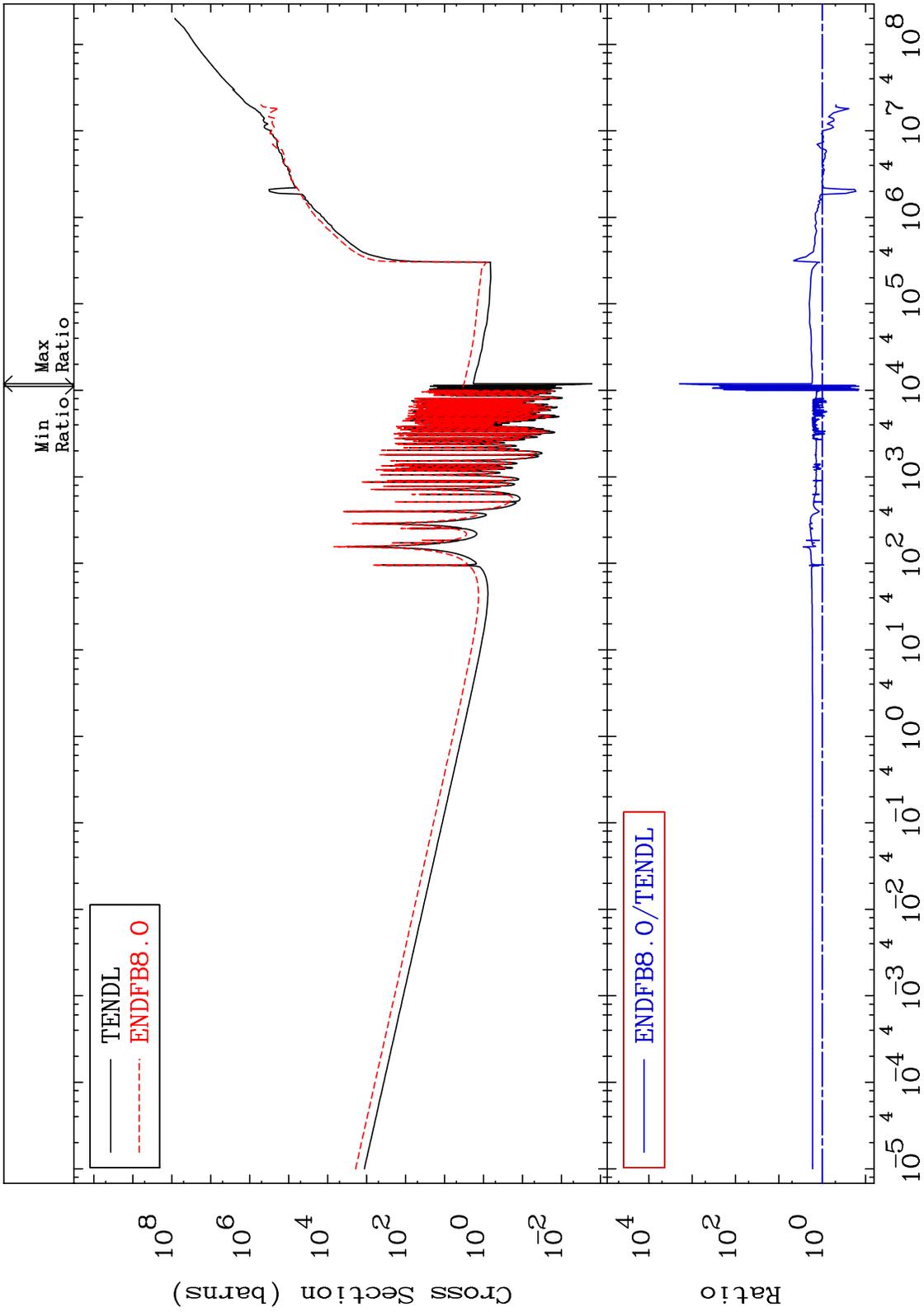
MAT 6043

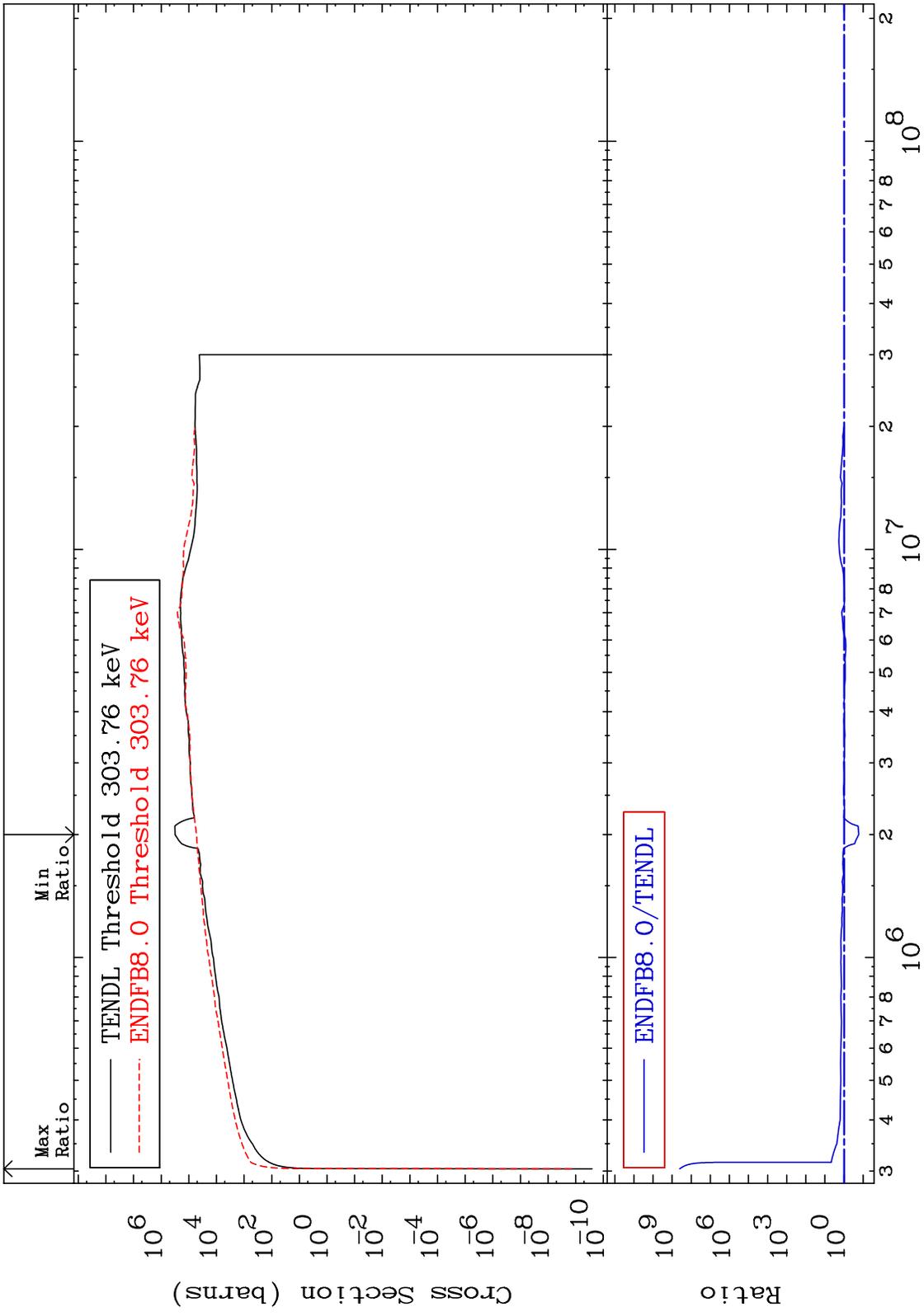
Kerma elastic
Cross Section

60-Nd-148
-99.40 To 9999. %



MAT 6043 Kerma non-elastic (all but mt2) 60-Nd-148
 Cross Section -85.64 To 9999. %

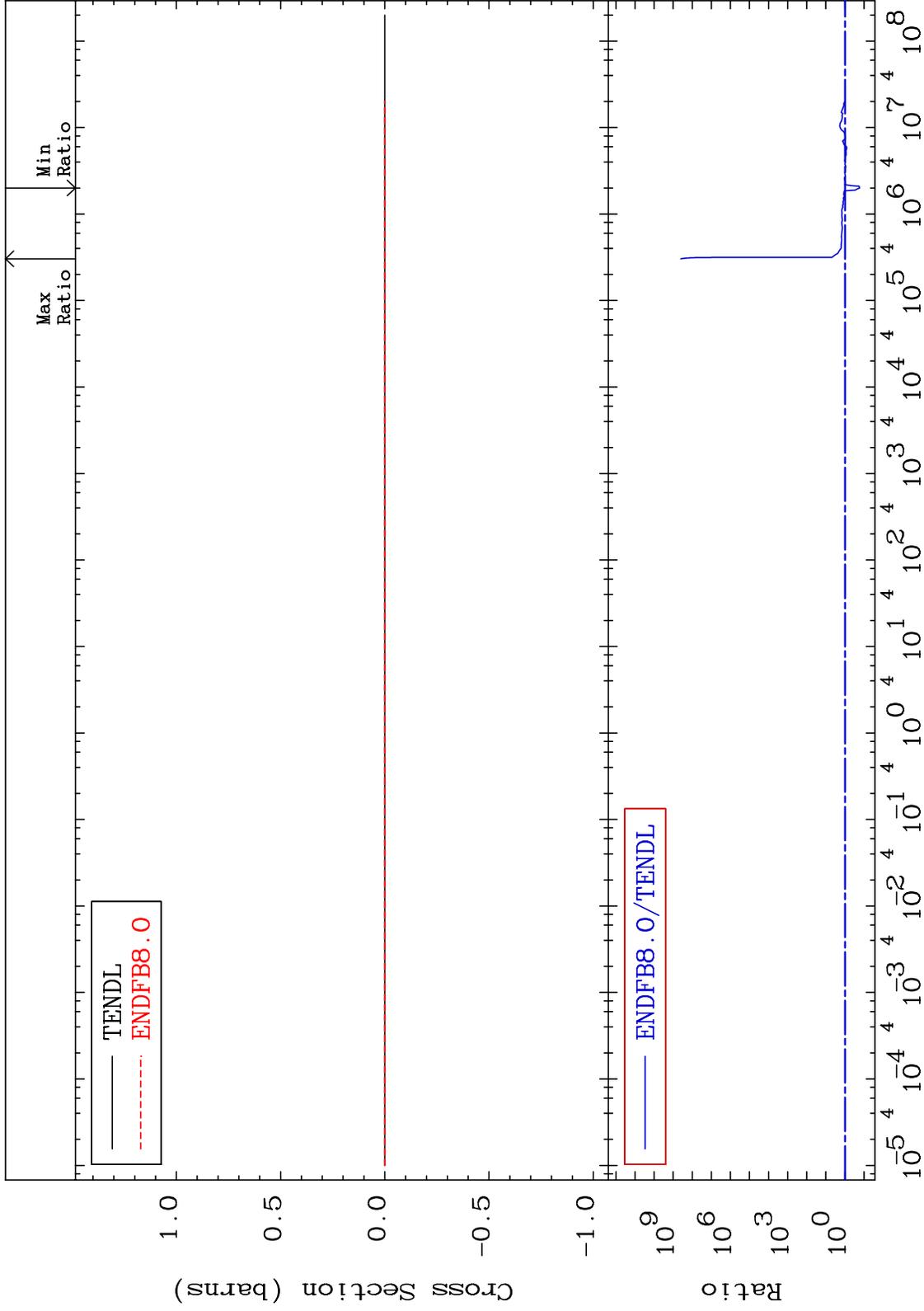




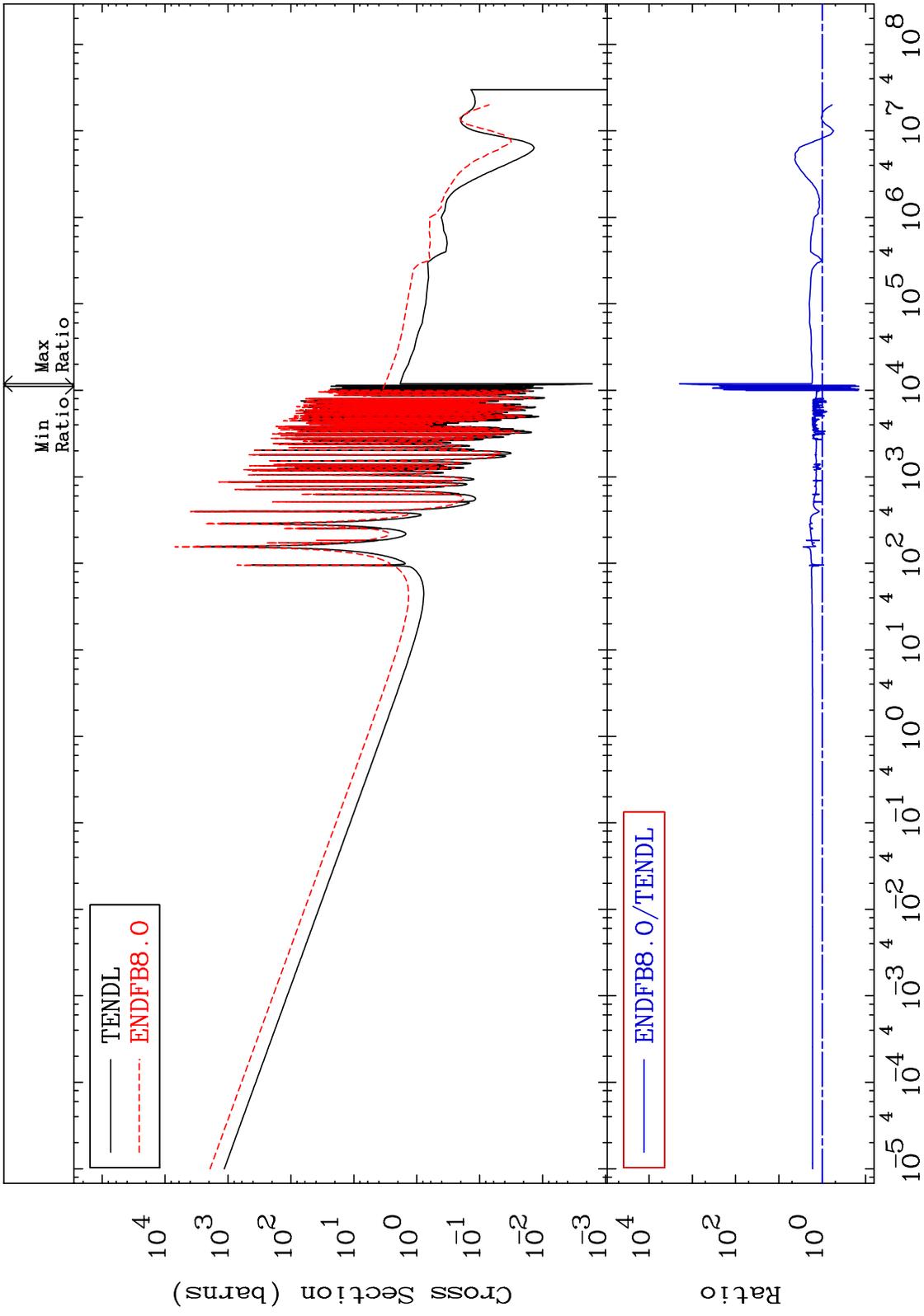
MAT 6043

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

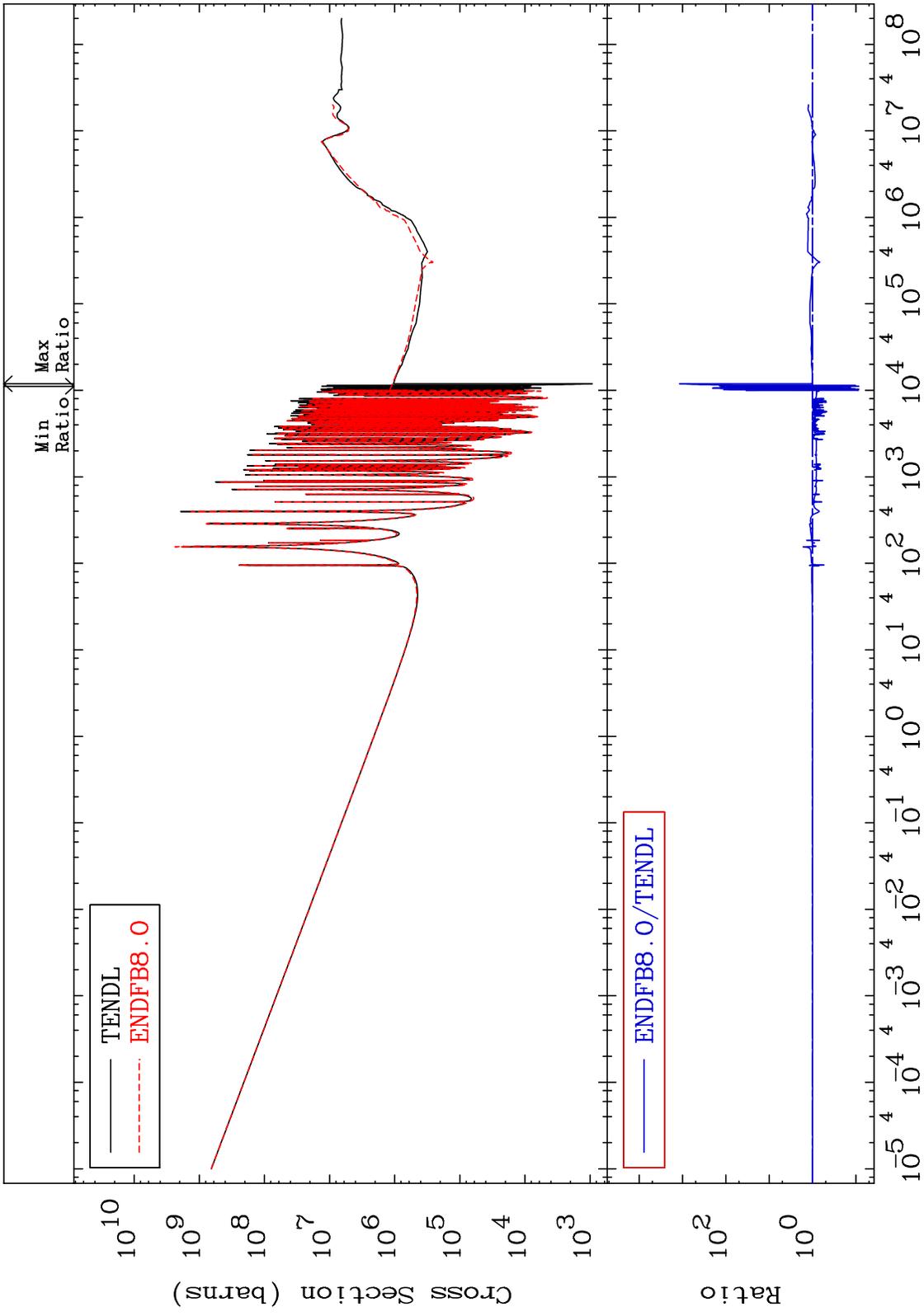
60-Nd-148
-83.25 To 9999. %



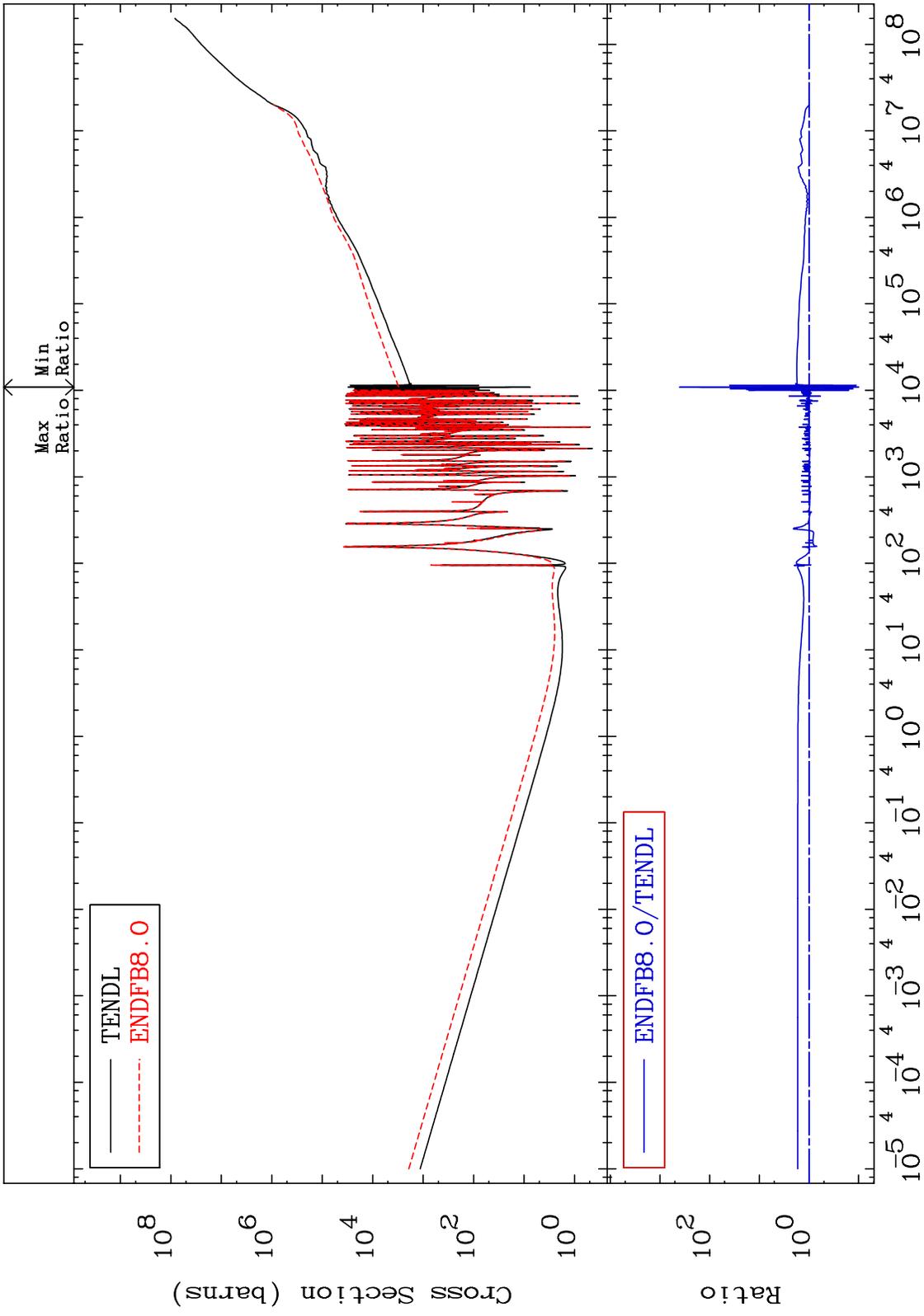
MAT 6043 Kerma capture (mt102) 60-Nd-148
 Cross Section -85.64 To 9999. %



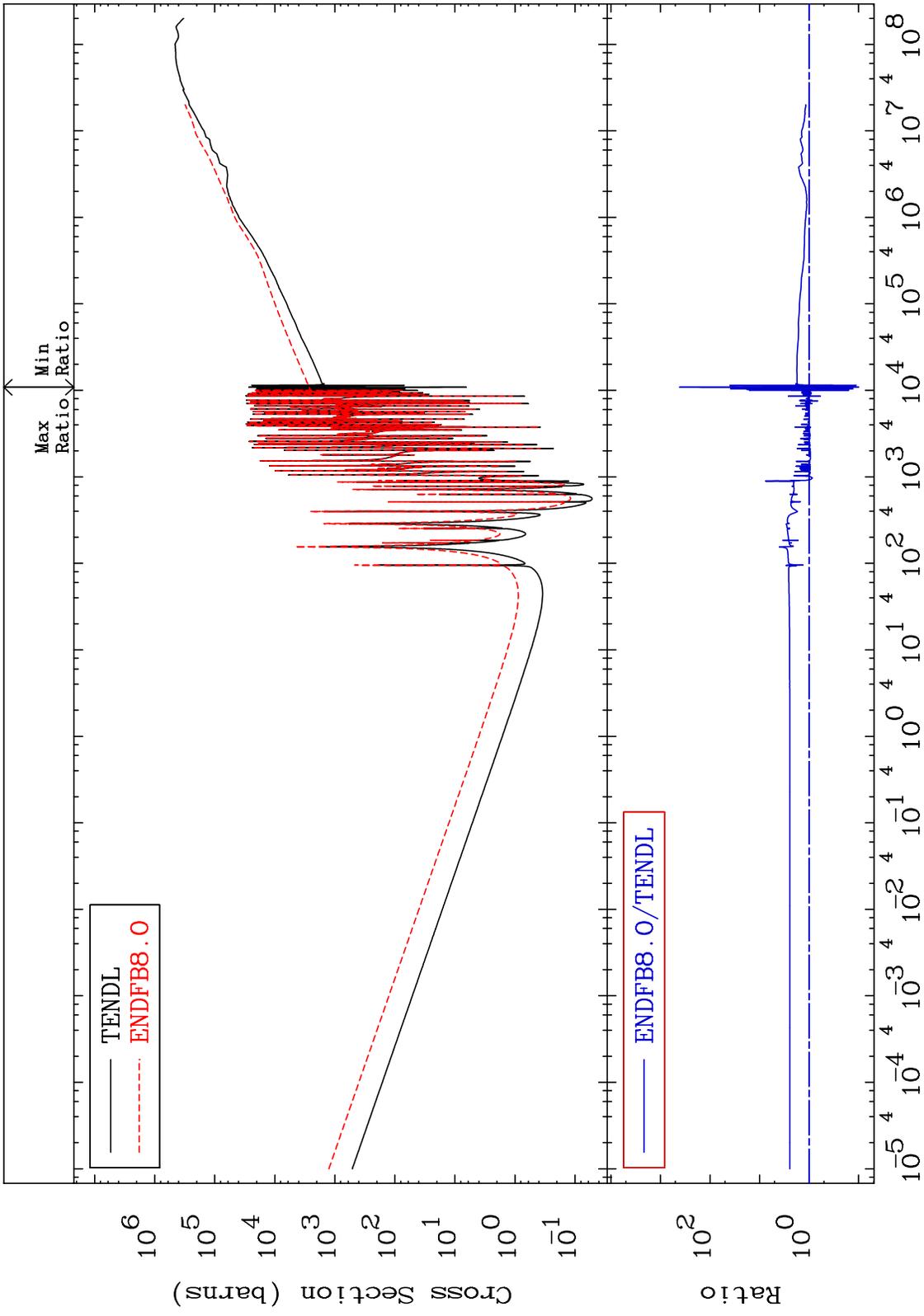
MAT 6043 Total photon (eV-barns) Cross Section 60-Nd-148 -91.42 To 9999. %



MAT 6043 Total kinematic kerma (high limit) 60-Nd-148
 Cross Section -90.07 To 9999. %

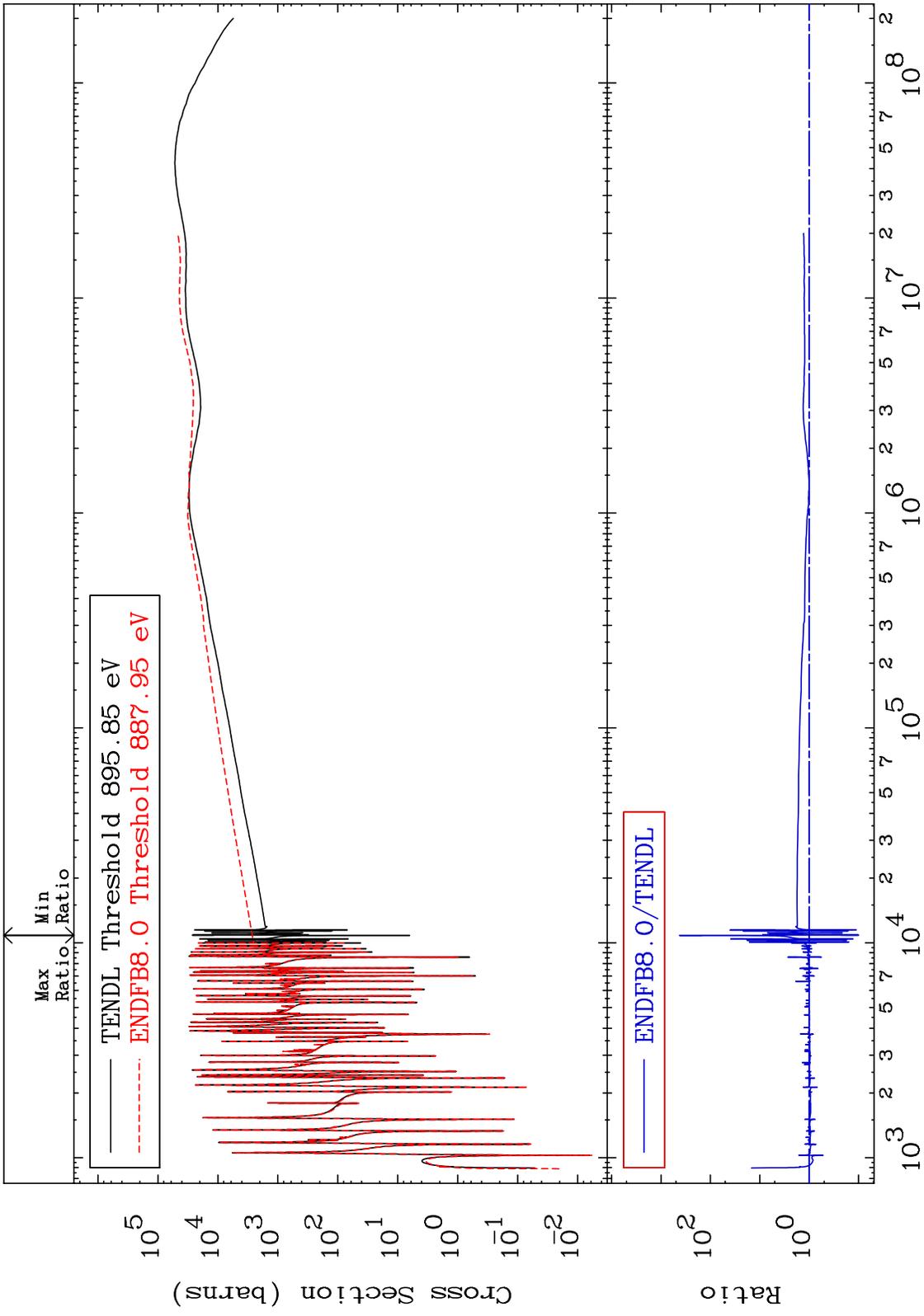


MAT 6043 Dpa total (eV-barns) 60-Nd-148
 Cross Section -90.08 To 9999. %

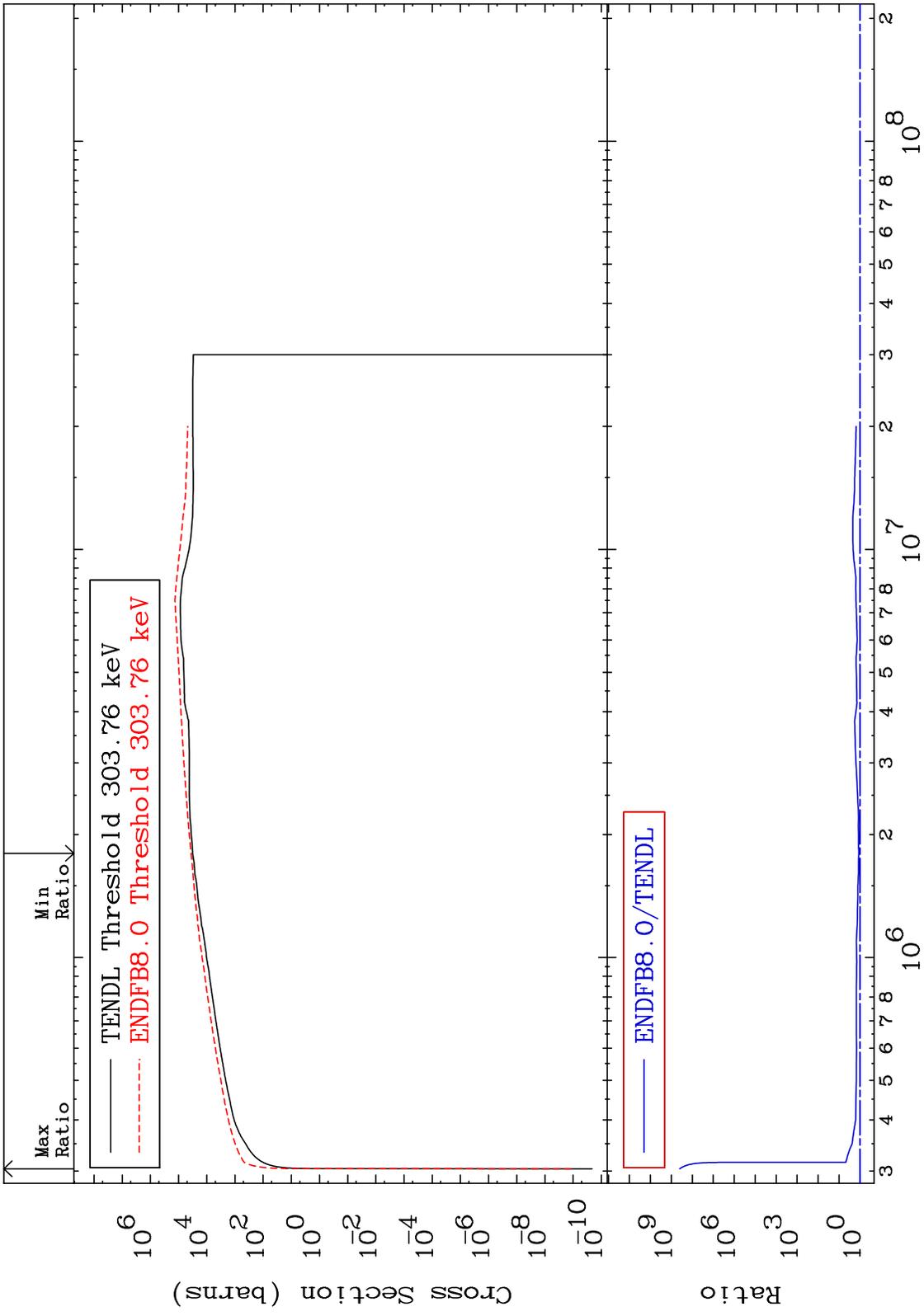


40 Incident Energy (eV) 60-Nd-148

MAT 6043 60-Nd-148
 Dpa elastic (mt2) -90.08 To 9999. %
 Cross Section



MAT 6043 Dpa inelastic (mt51-91) 60-Nd-148
 Cross Section 13.51 To 9999. %



MAT 6043 Dpa disappearance (mt102 -120) 60-Nd-148
 Cross Section -79.09 To 9999. %

