

Program Complot
(Version 2018-1)

by

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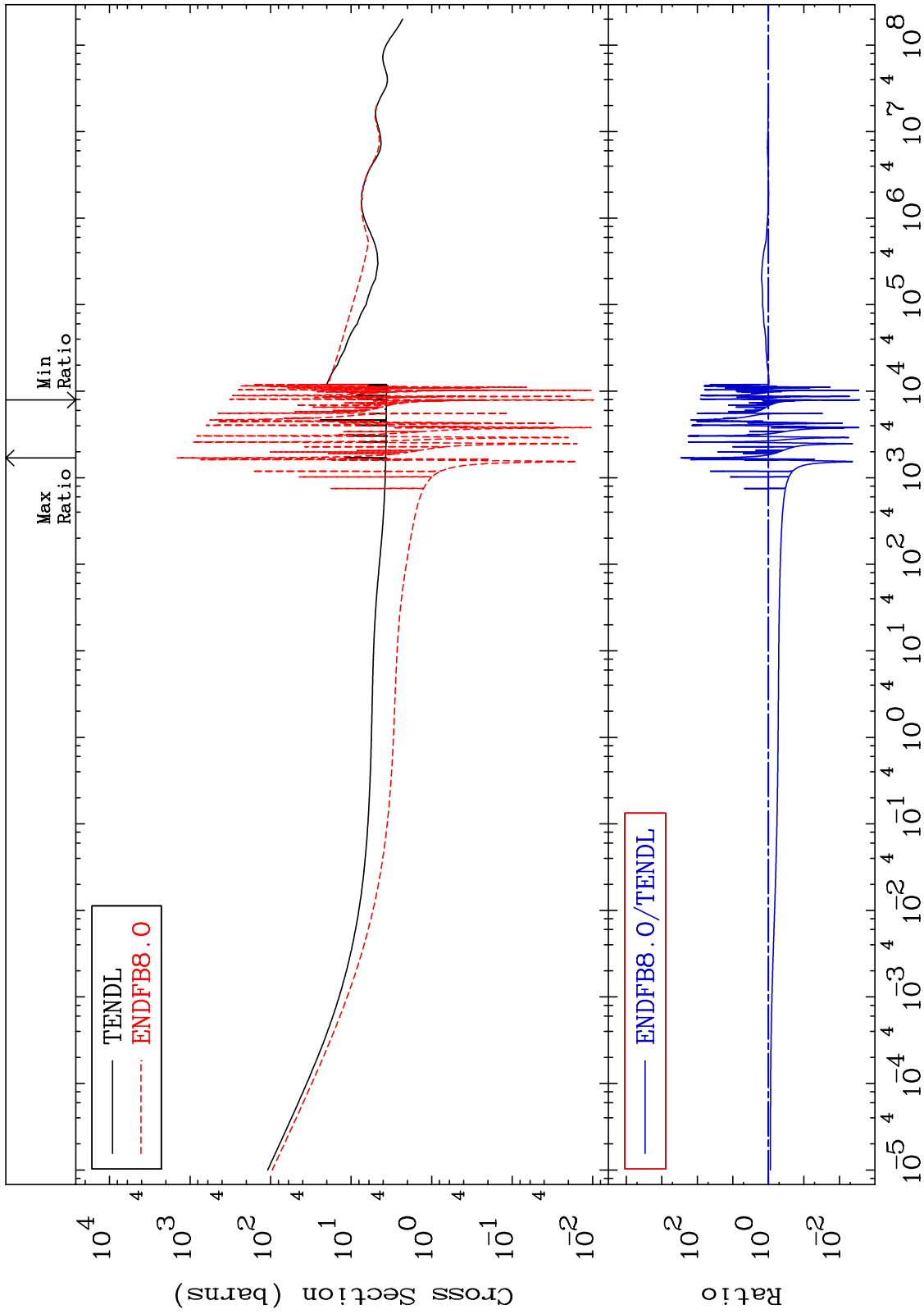
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6225

Total
Cross Section

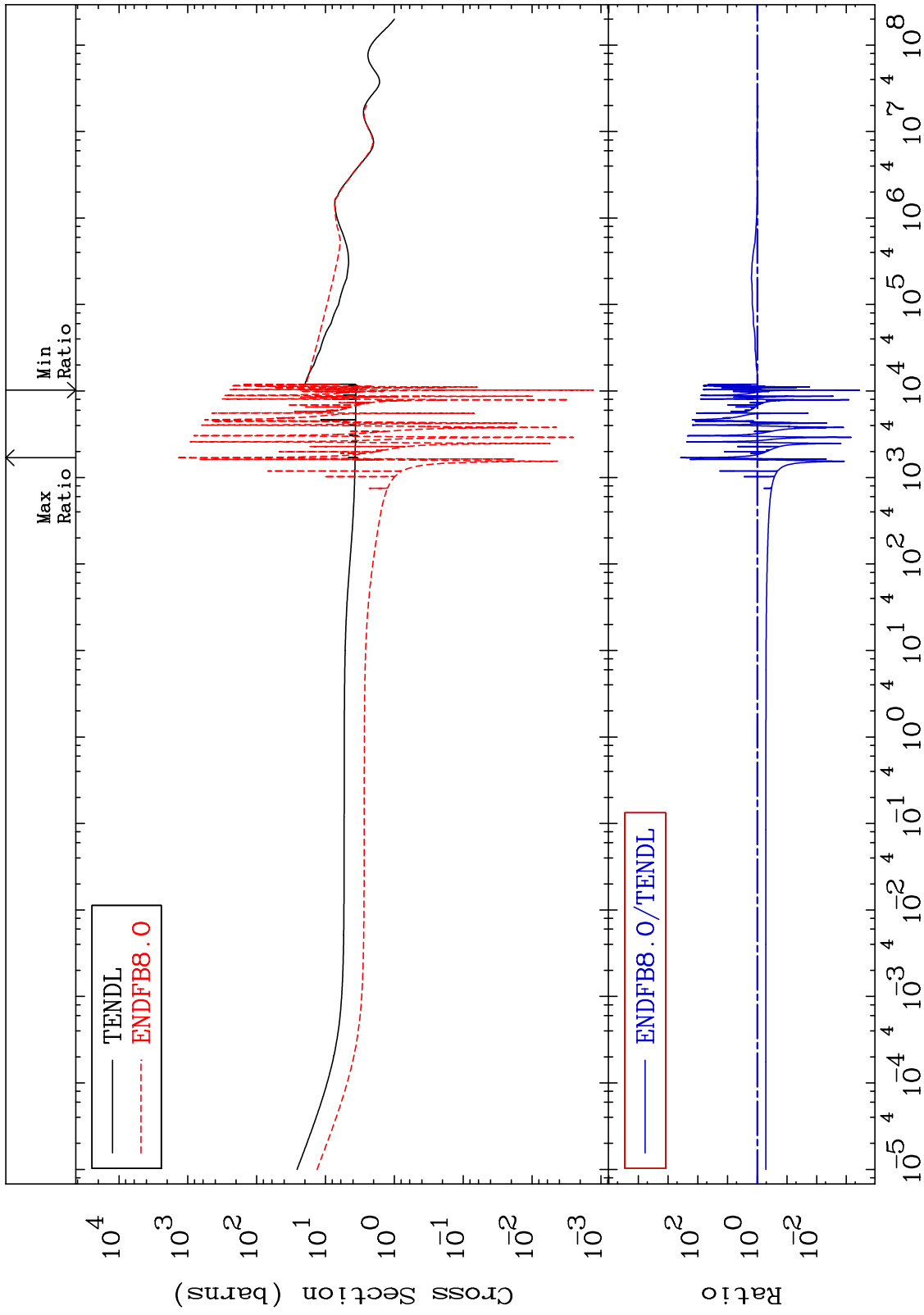
62-Sm-144
-99.73 To 9999. %



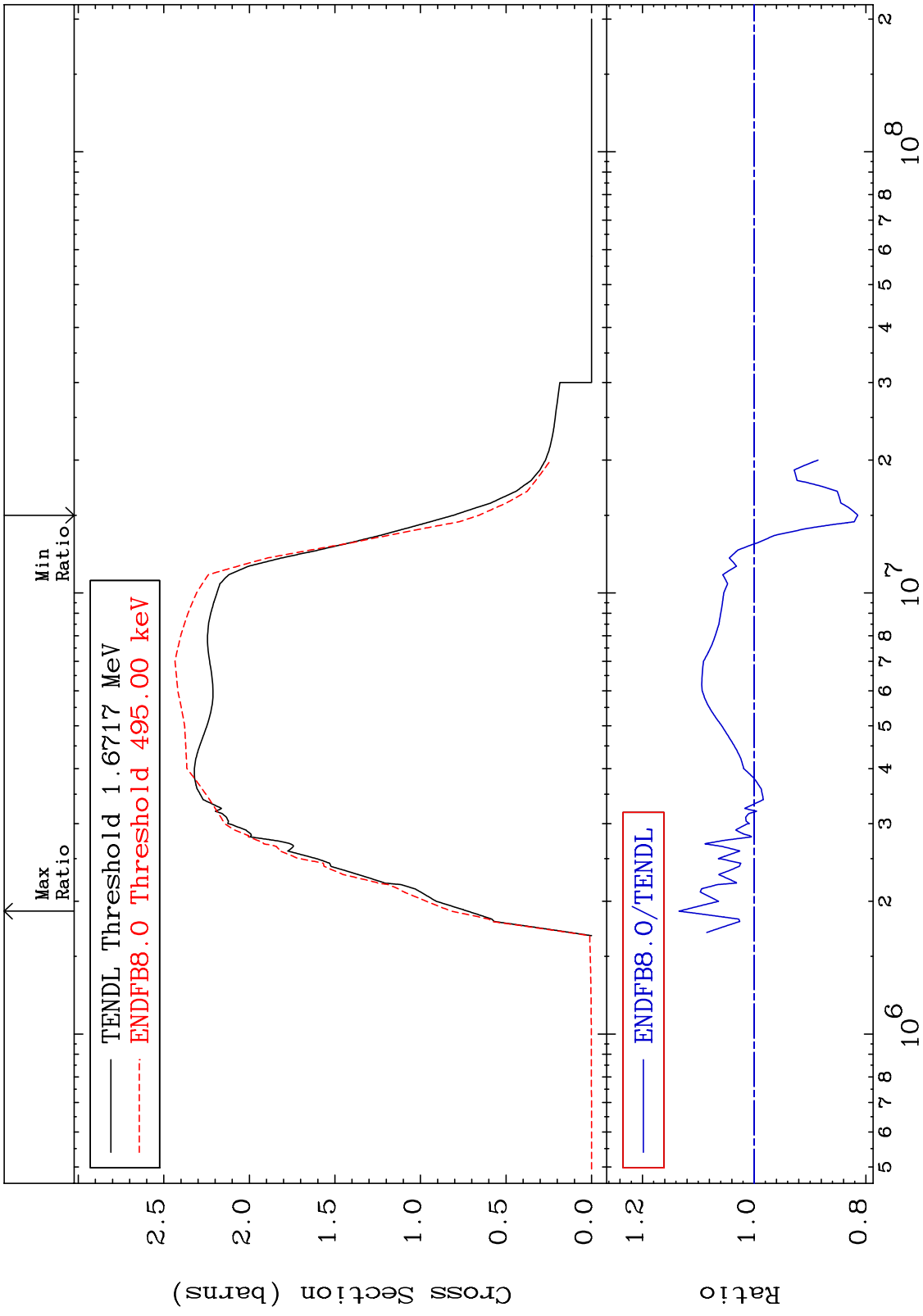
MAT 6225

Elastic
Cross Section

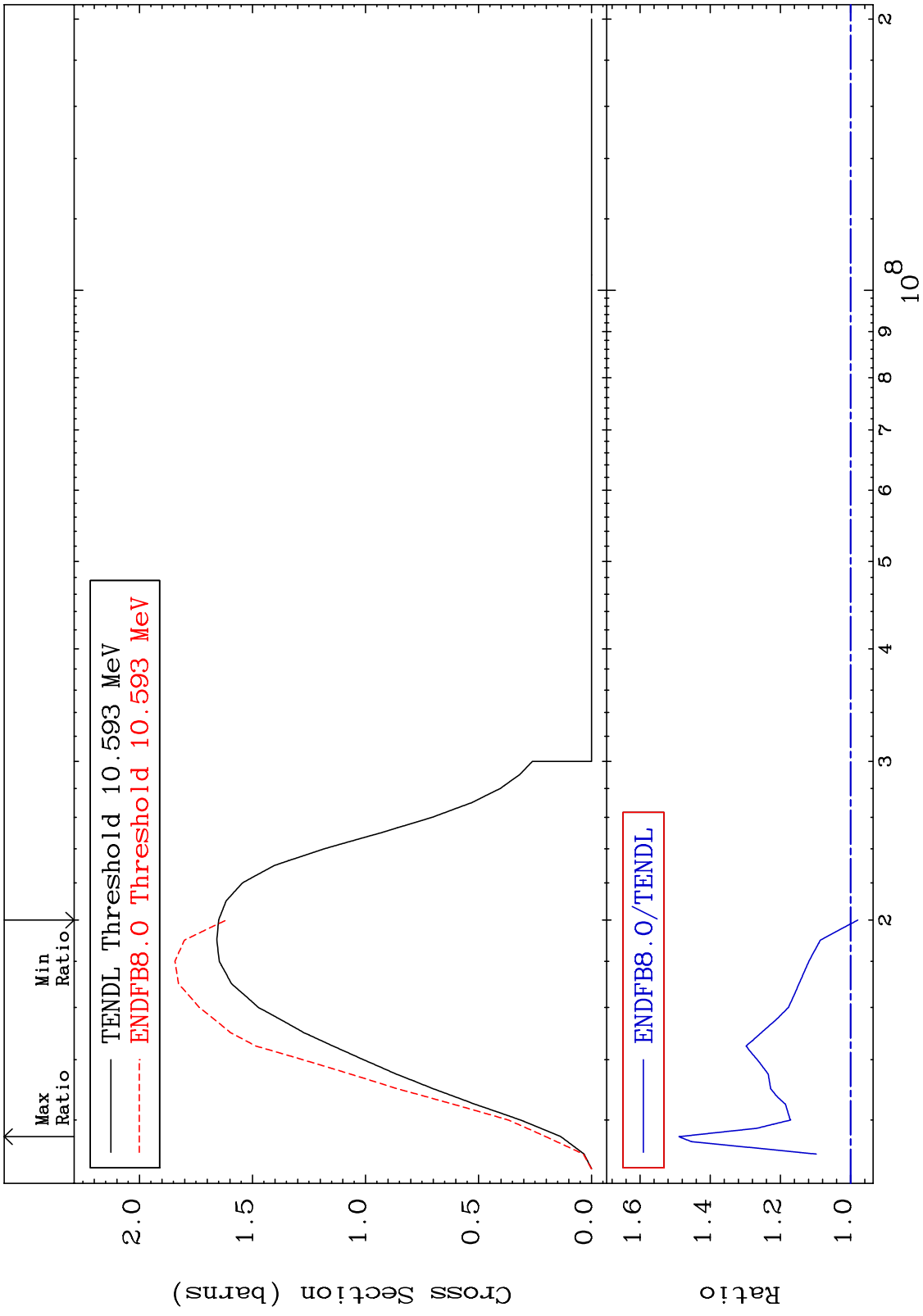
62-Sm-144
-99.96 To 9999. %



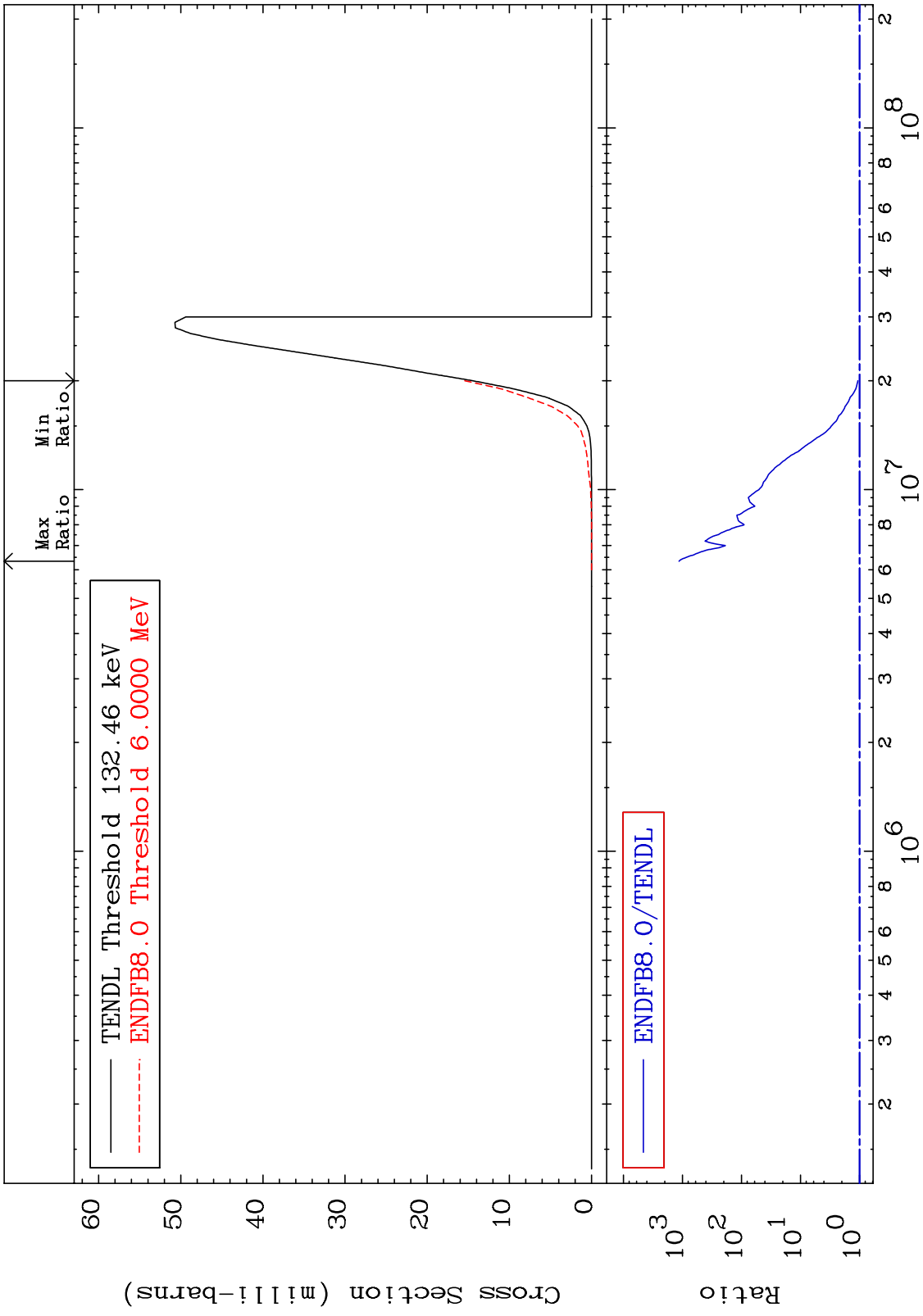
MAT 6225 Inelastic Cross Section 62-Sm-144 -18.55 To 13.44 %

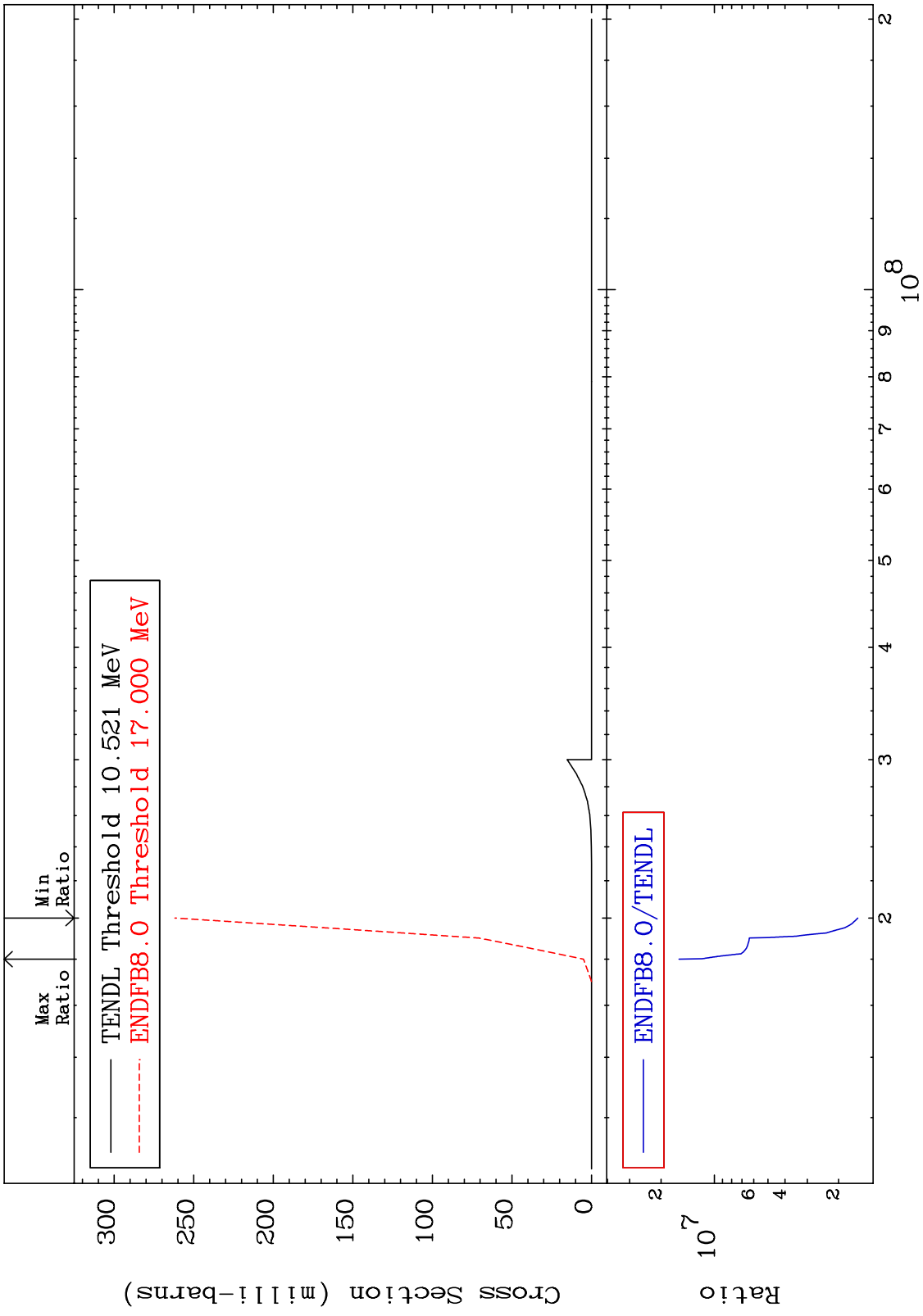


MAT 6225 (n,2n) Cross Section 62-Sm-144 -2.050 To 48.90 %

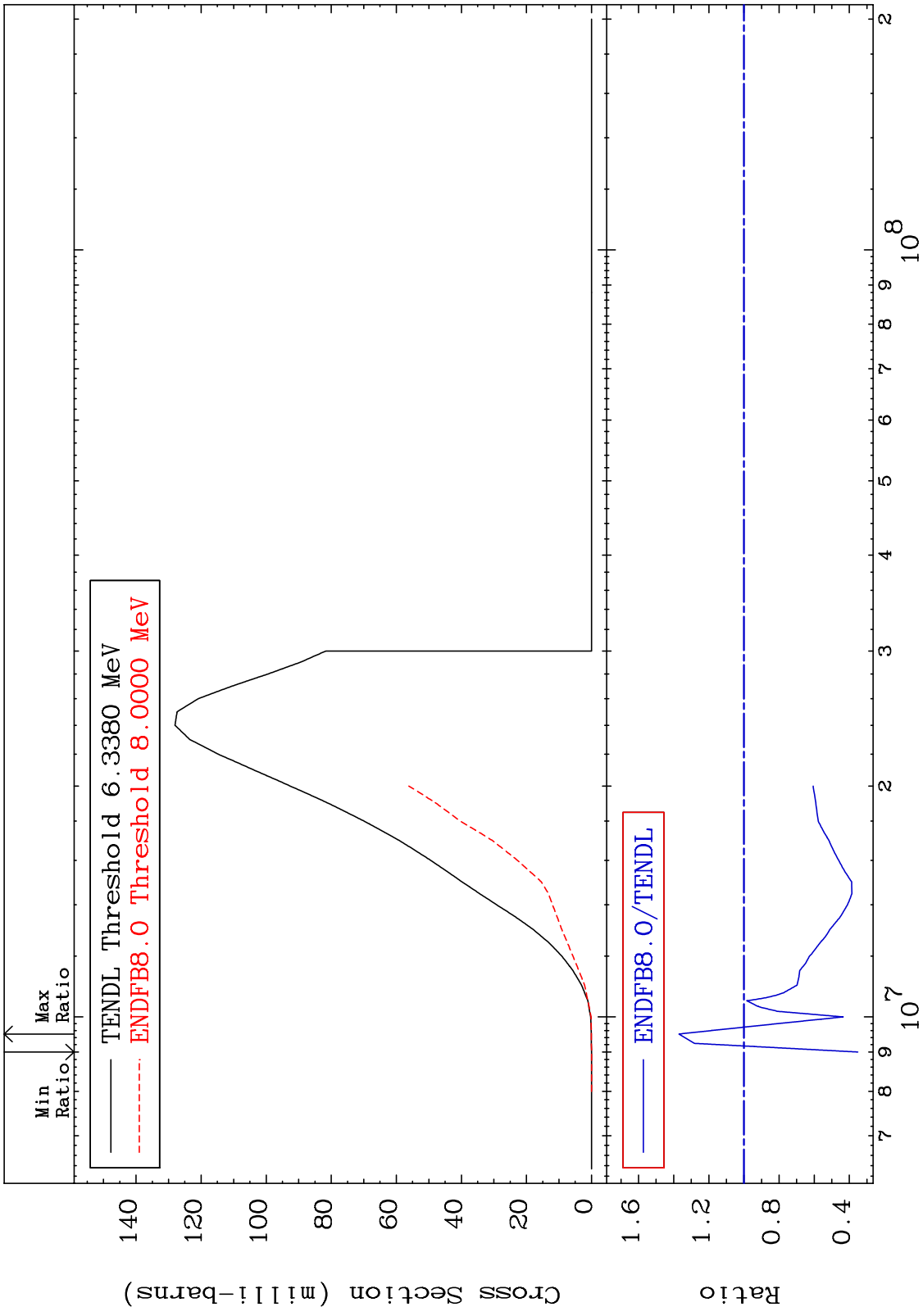


MAT 6225 $(n, n') \alpha$ Cross Section 62-Sm-144 6.765 To 9999. %

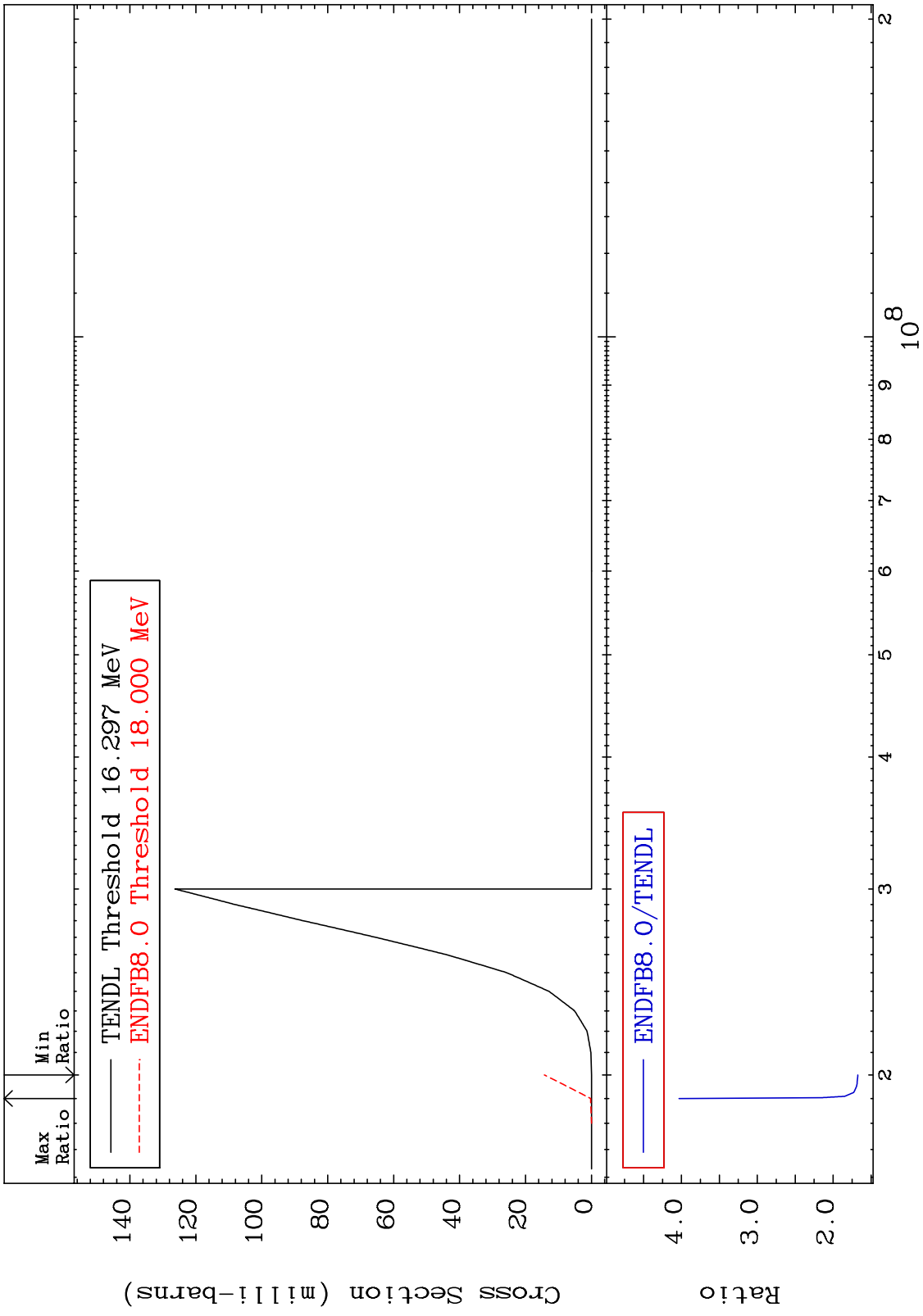




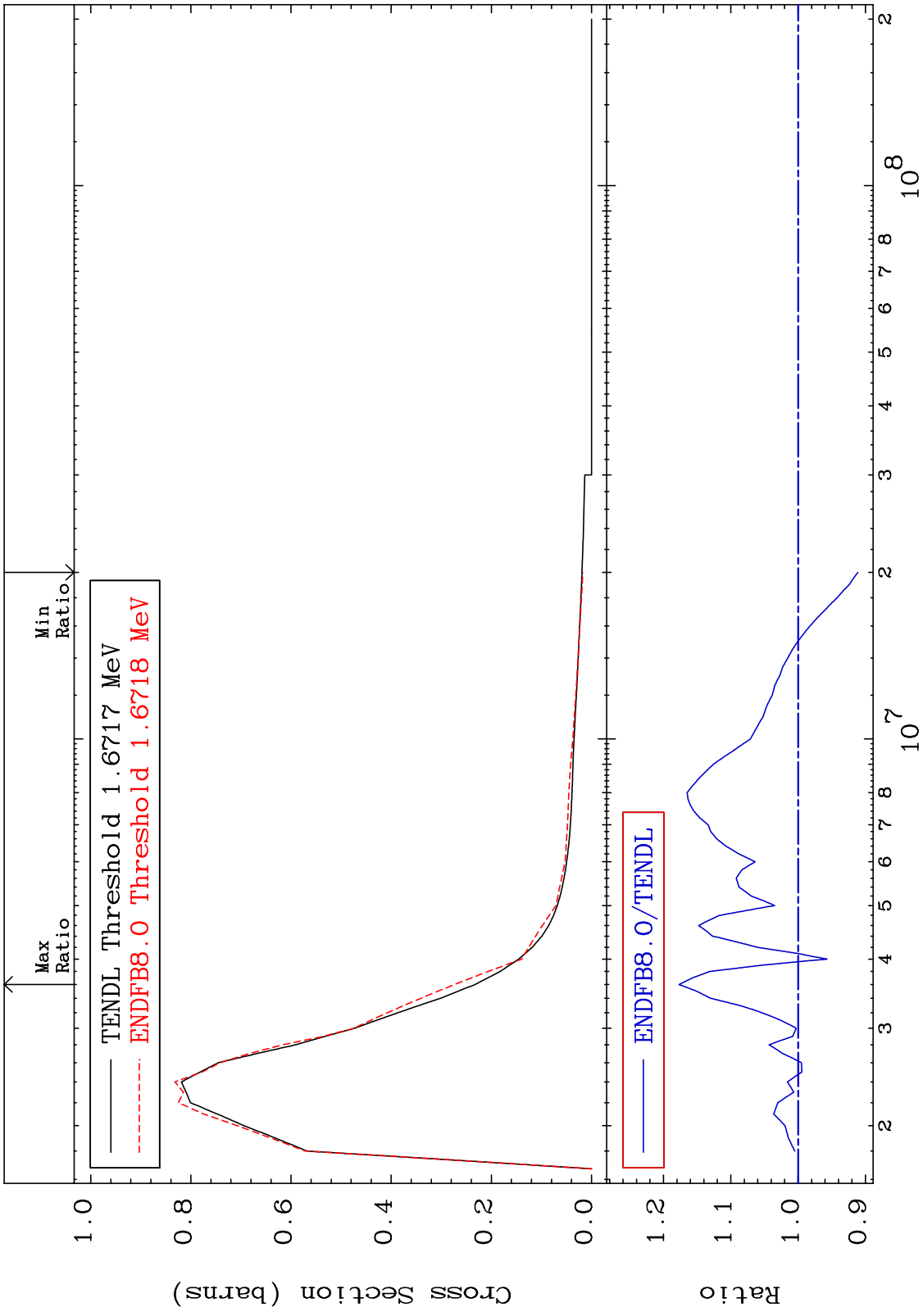
MAT 6225 (n,n') p 62-Sm-144
 Cross Section -64.82 To 36.95 %



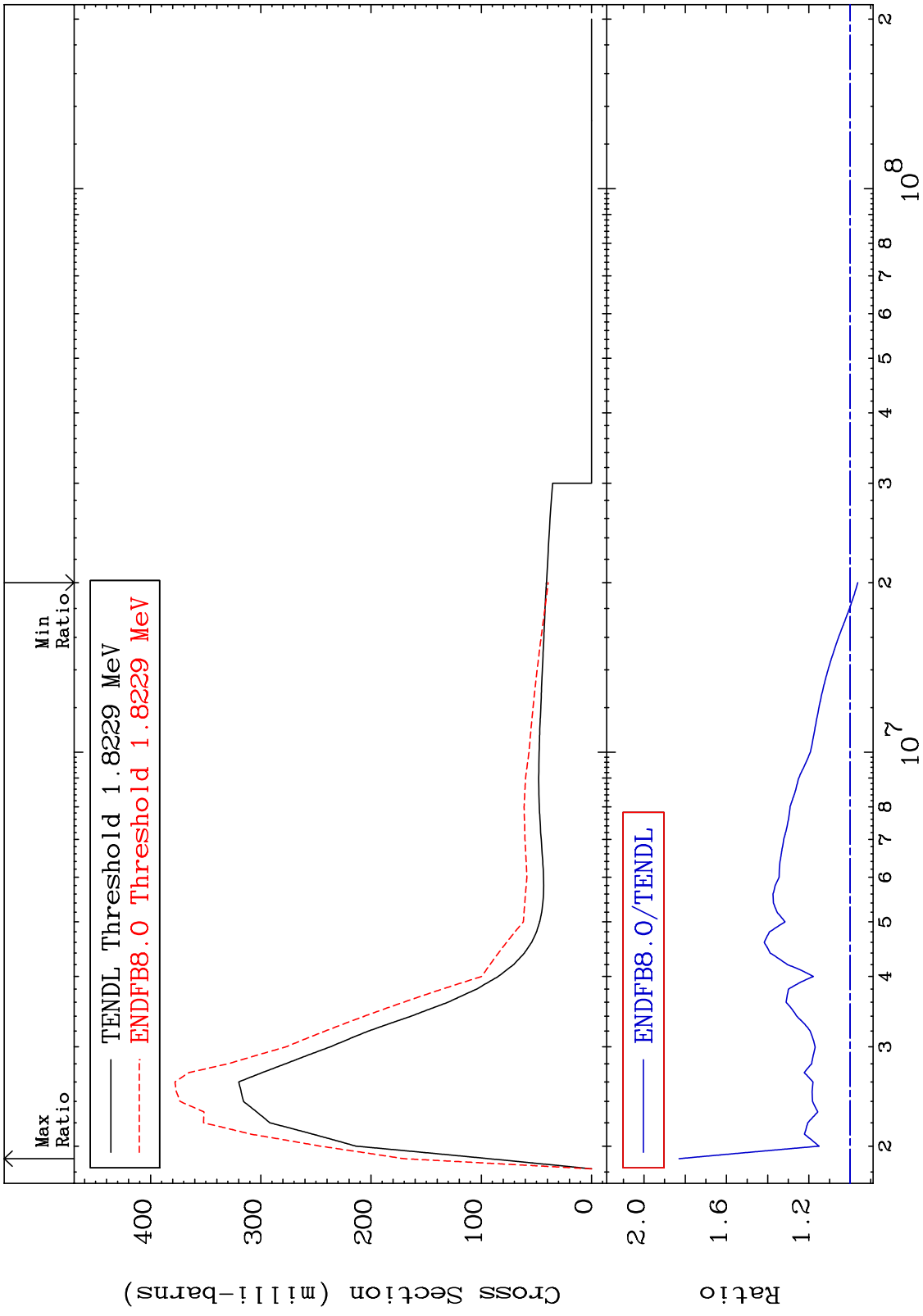
7 Incident Energy (eV) 62-Sm-144



MAT 6225 MT= 51 (n,n') Level Cross Section 62-Sm-144 -8.869 To 17.69 %

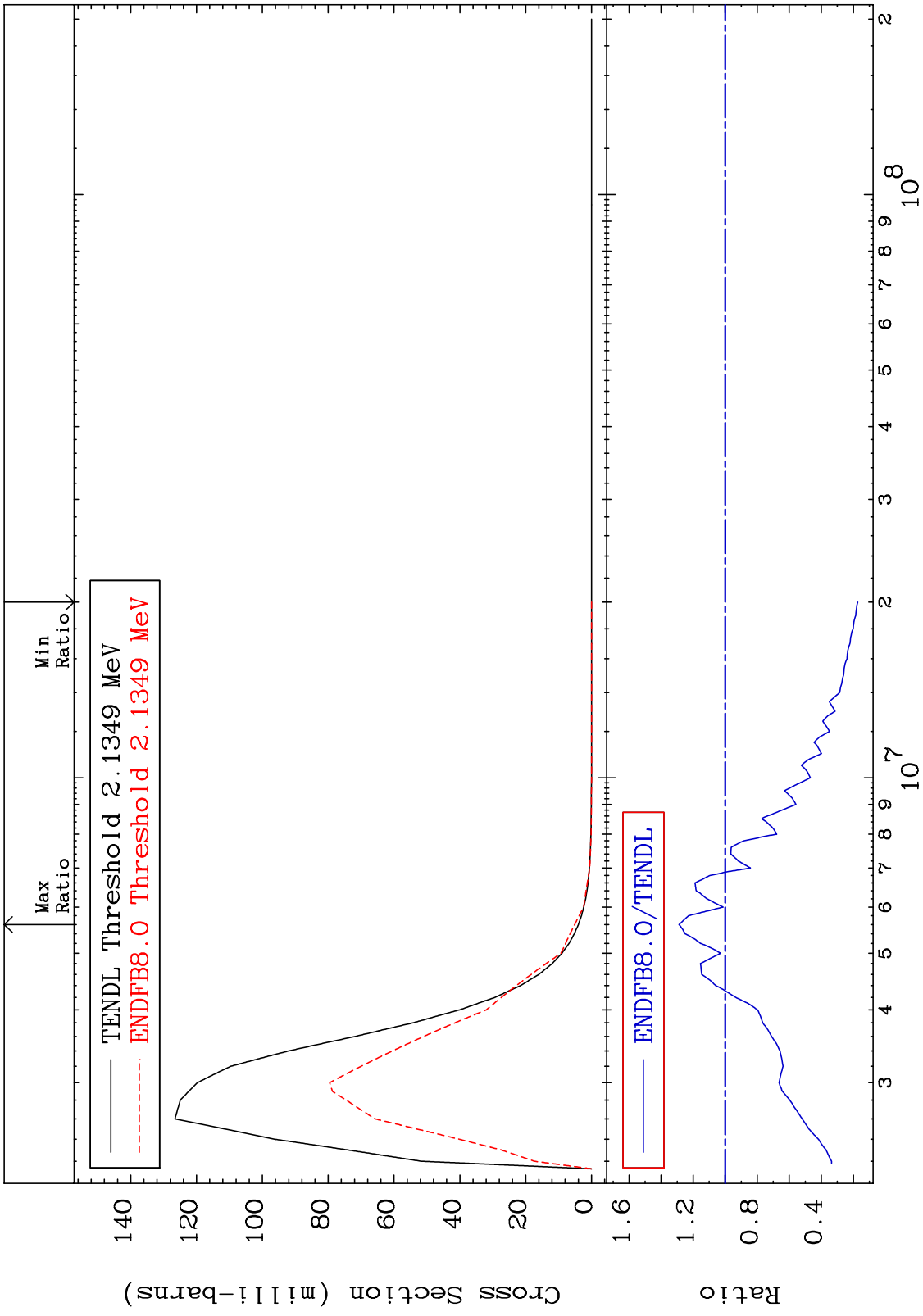


MAT 6225 MT= 52 (n,n') Level Cross Section 62-Sm-144 -3.728 To 83.02 %

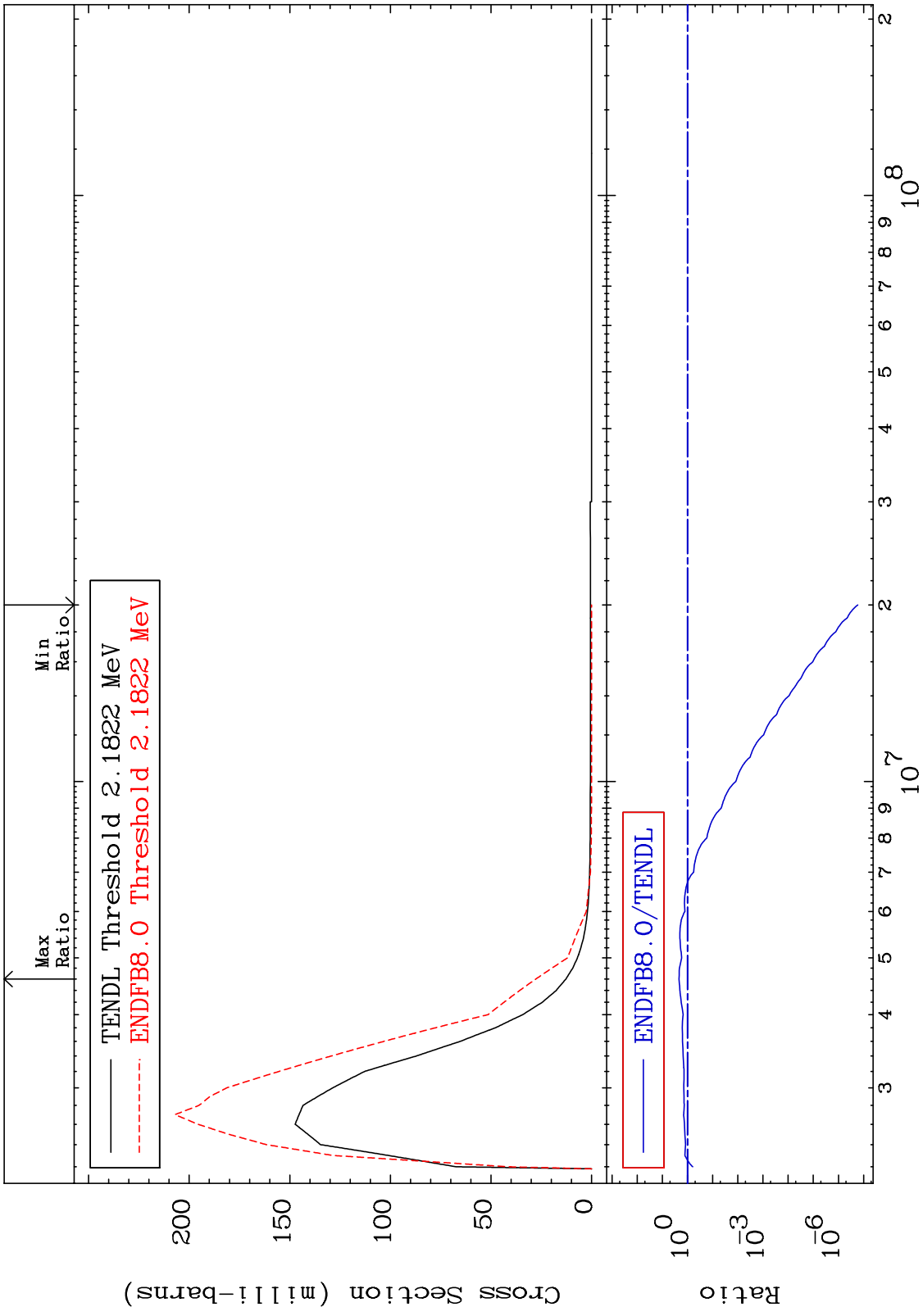


10 Incident Energy (eV) 62-Sm-144

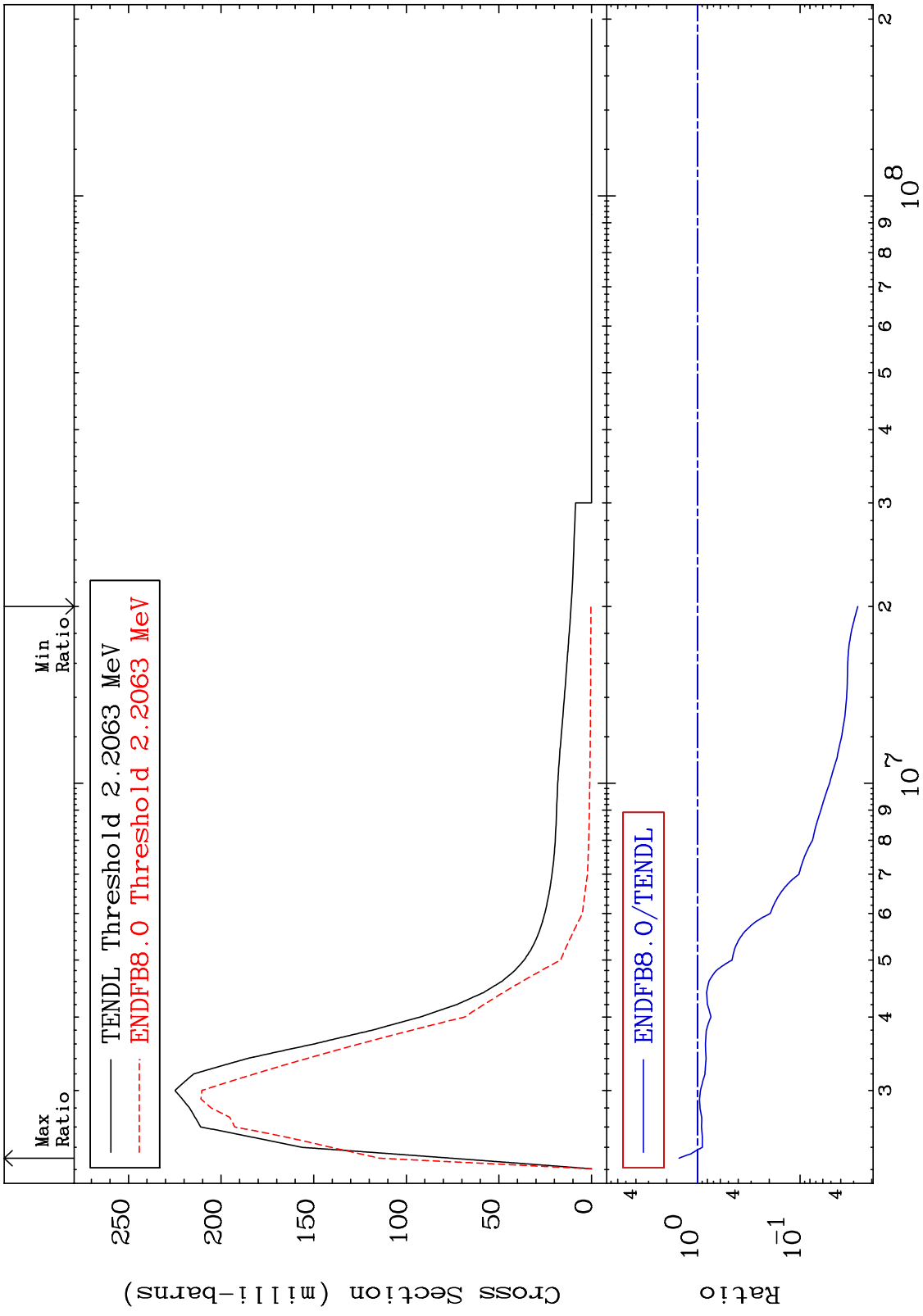
MAT 6225 MT= 53 (n,n') Level Cross Section 62-Sm-144 -82.83 To 28.83 %



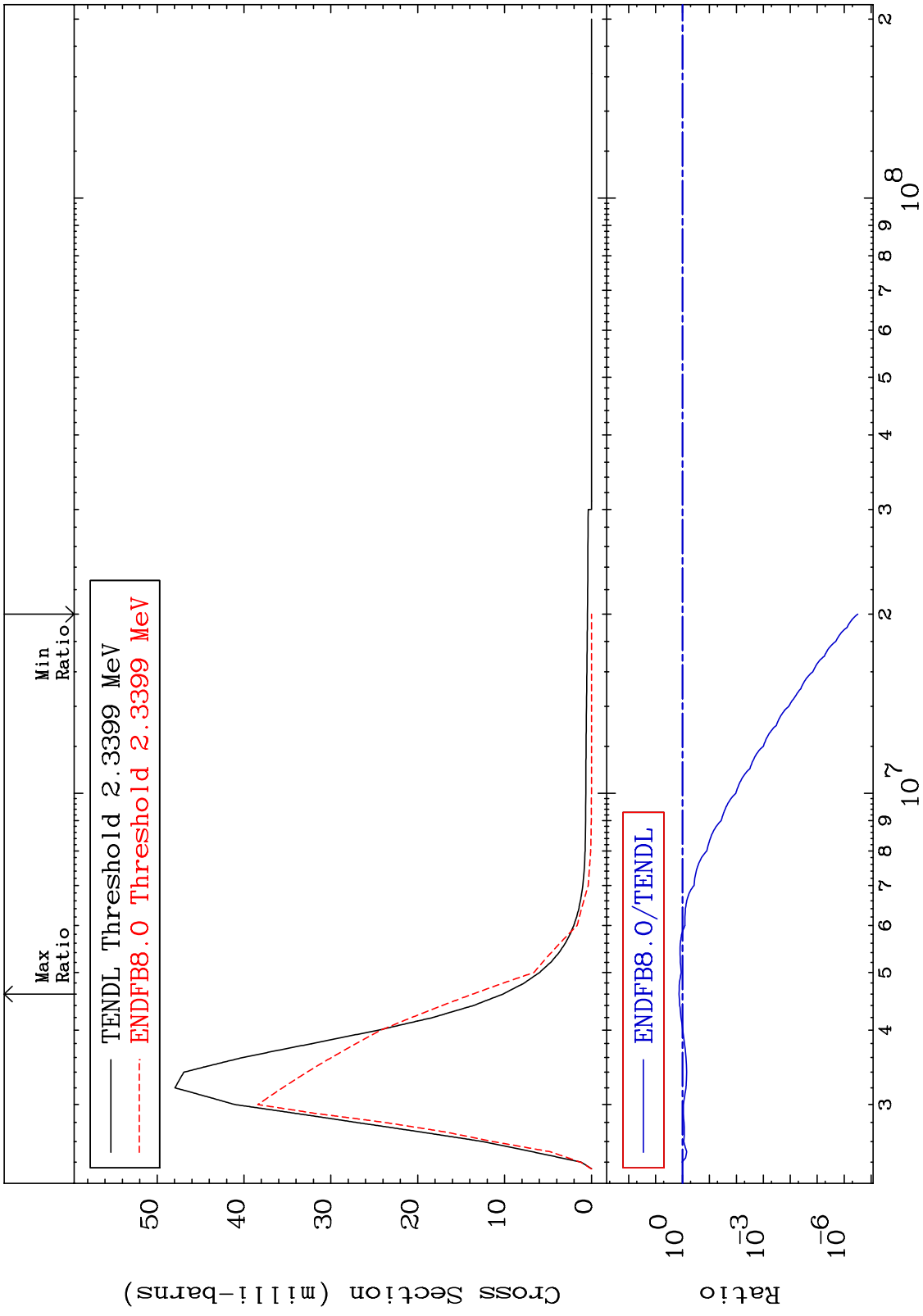
MAT 6225 MT= 54 (n,n') Level Cross Section 62-Sm-144
 -100.0 To 117.6 %



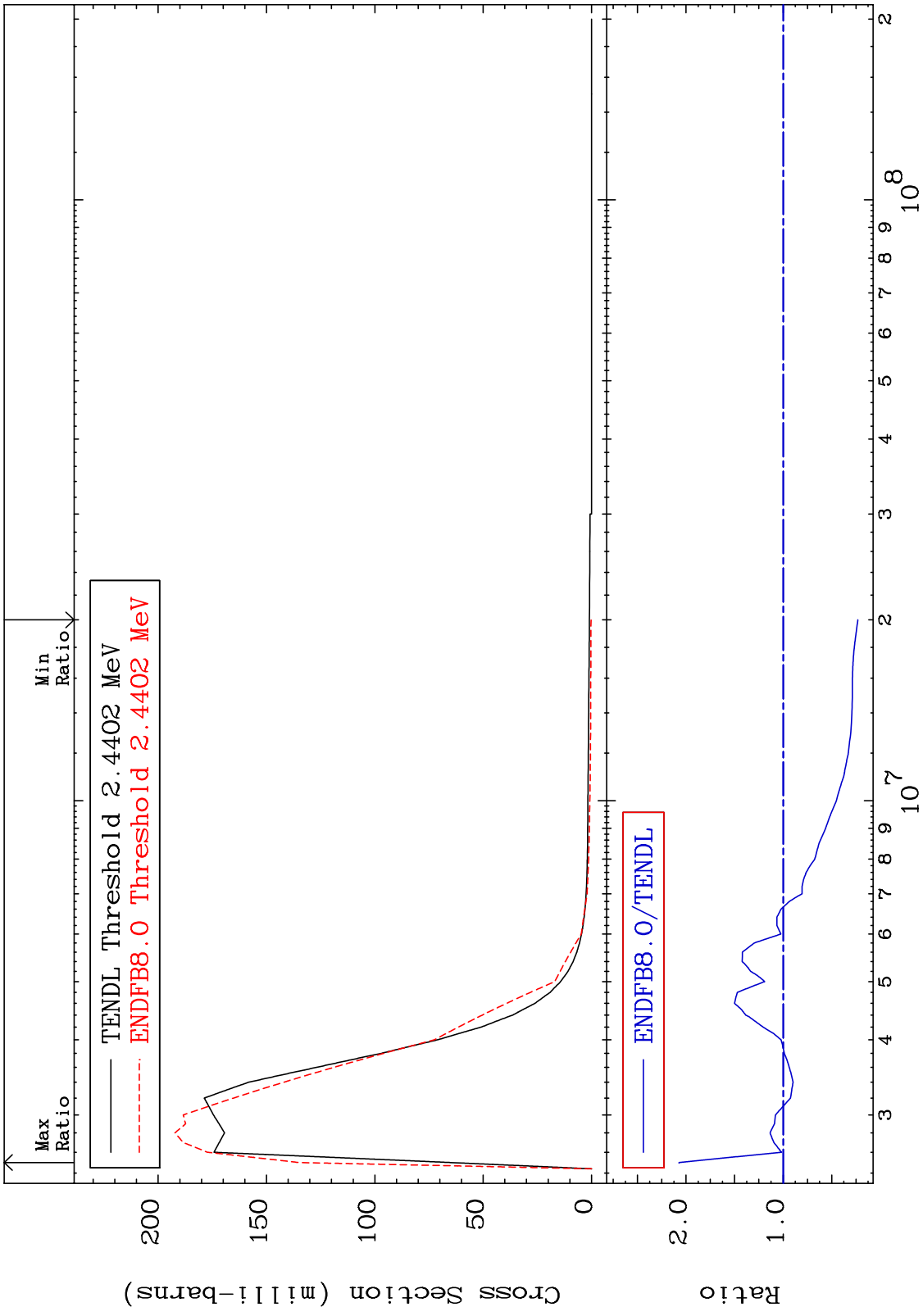
MAT 6225 MT= 55 (n,n') Level Cross Section 62-Sm-144 -97.27 To 51.46 %



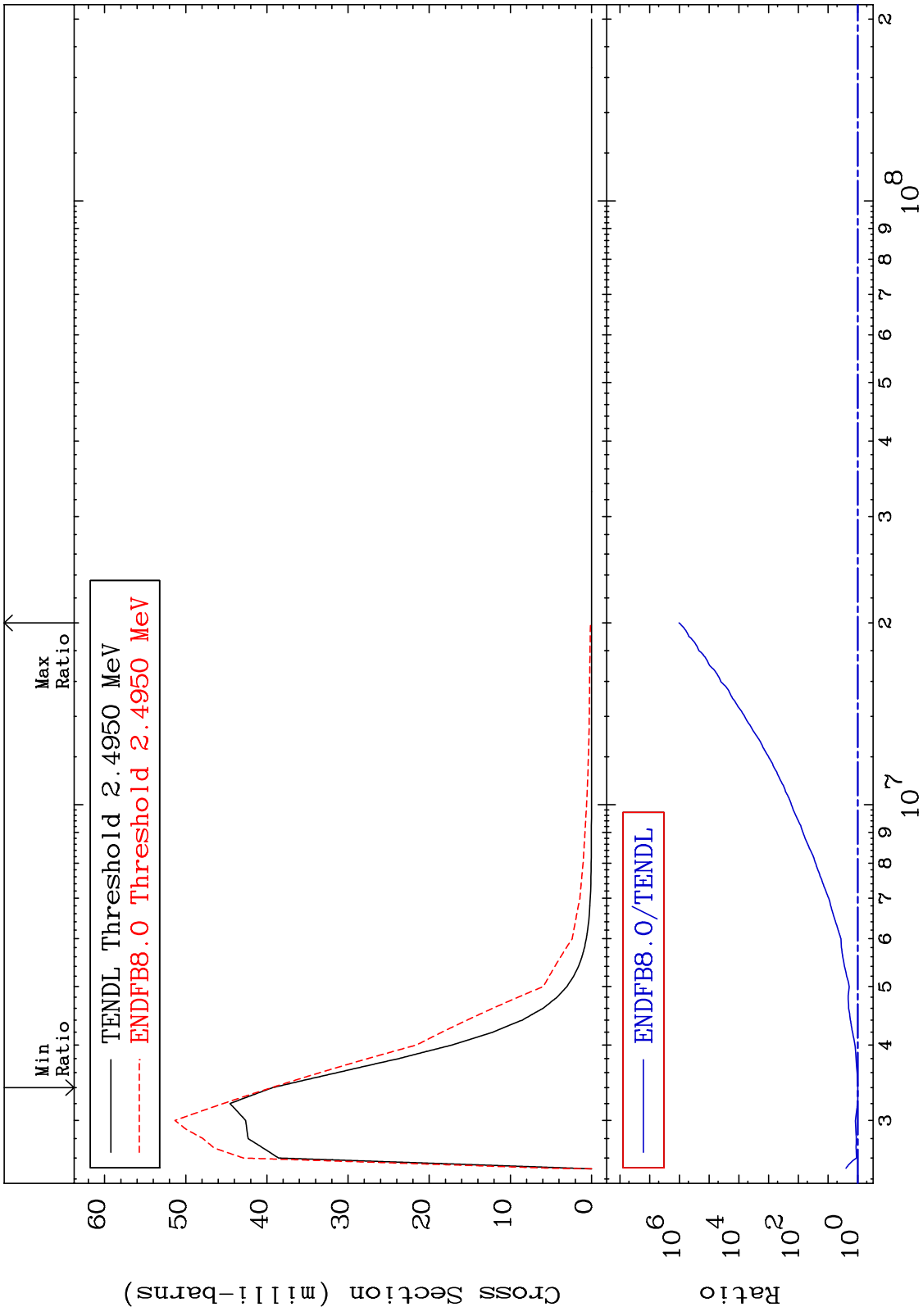
MAT 6225 MT= 56 (n,n') Level Cross Section 62-Sm-144
 -100.0 To 34.30 %



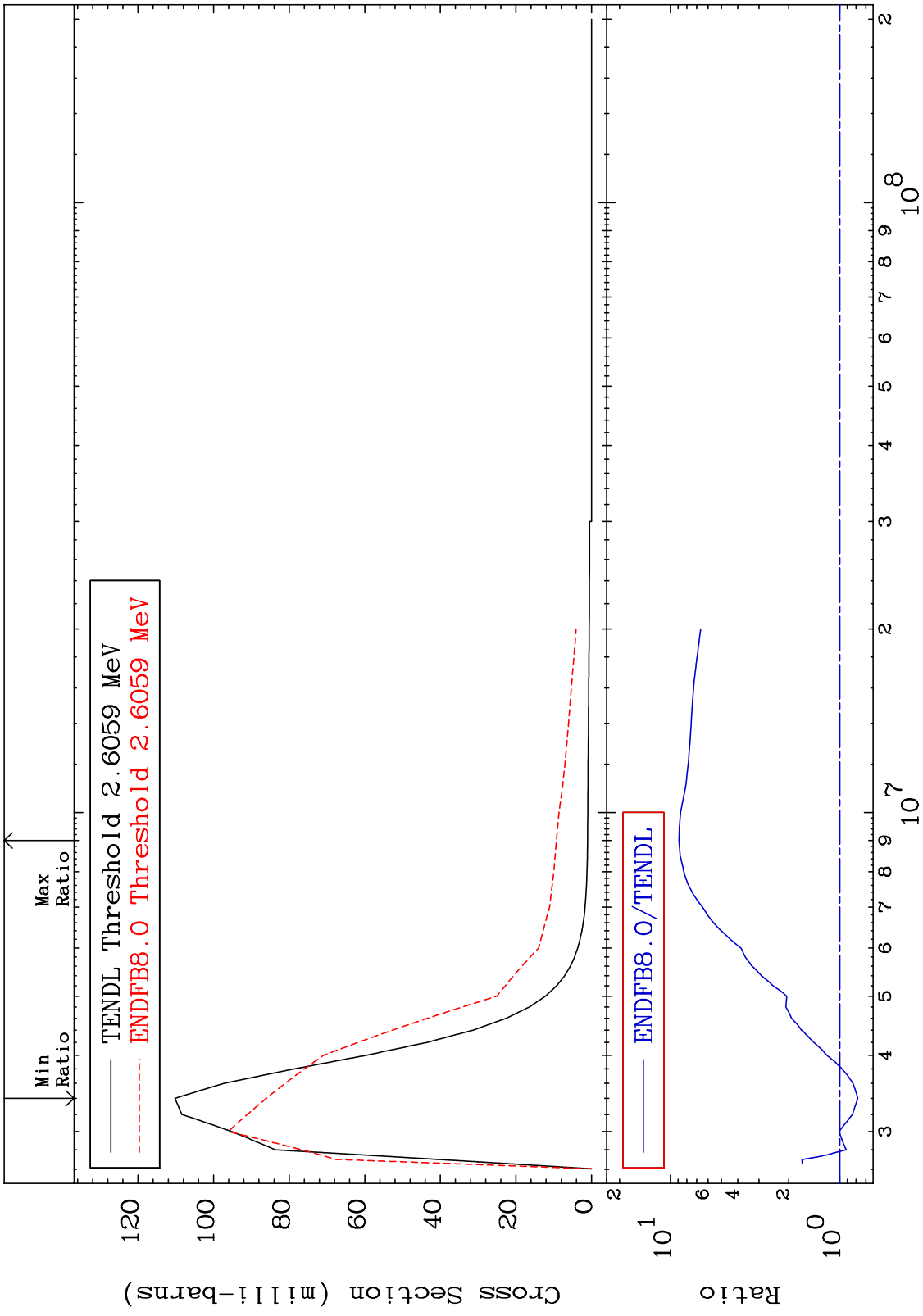
MAT 6225 MT= 57 (n,n') Level Cross Section 62-Sm-144 -76.91 To 107.2 %



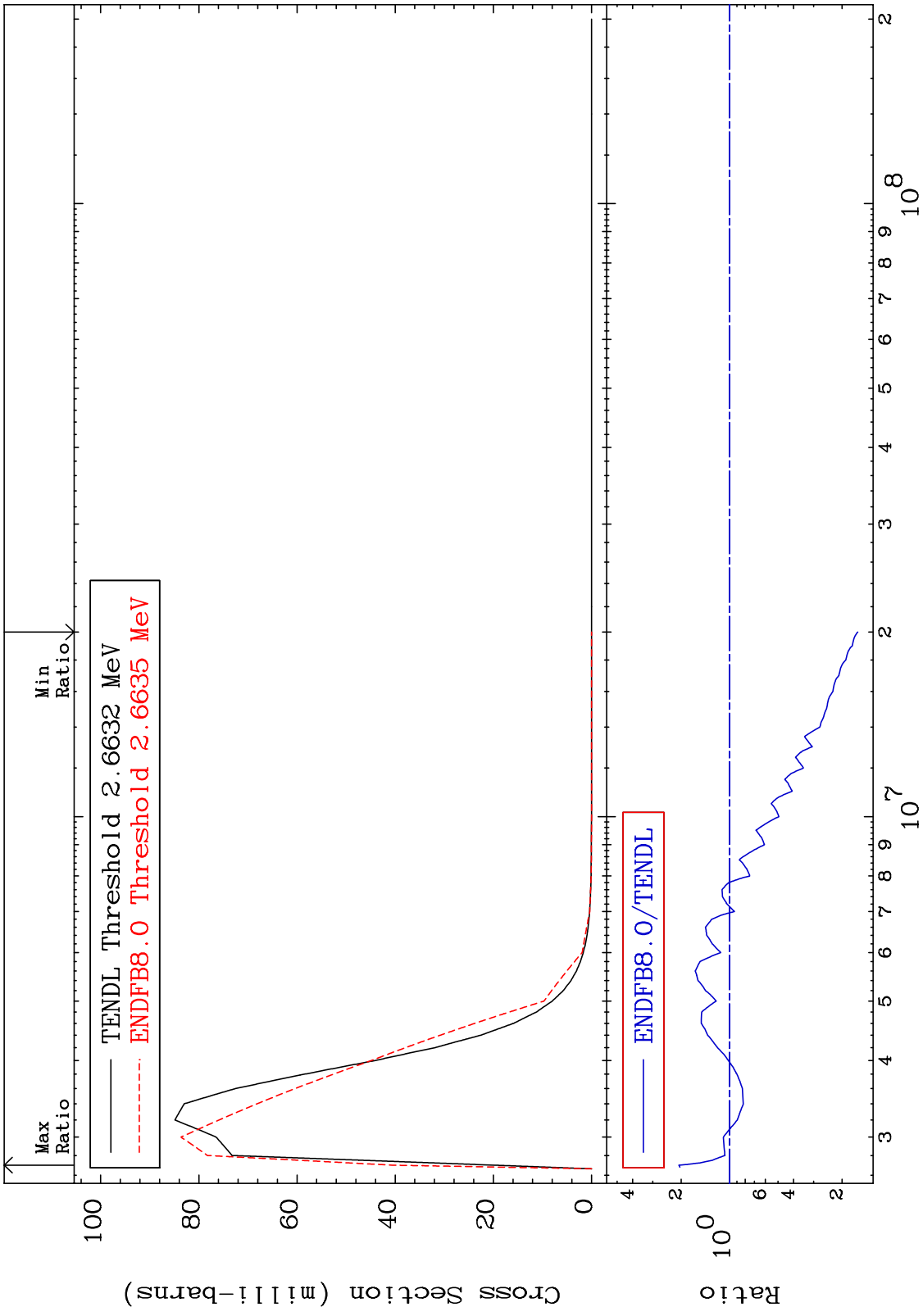
MAT 6225 MT= 58 (n,n') Level Cross Section 62-Sm-144 To 9999. %
 0.329



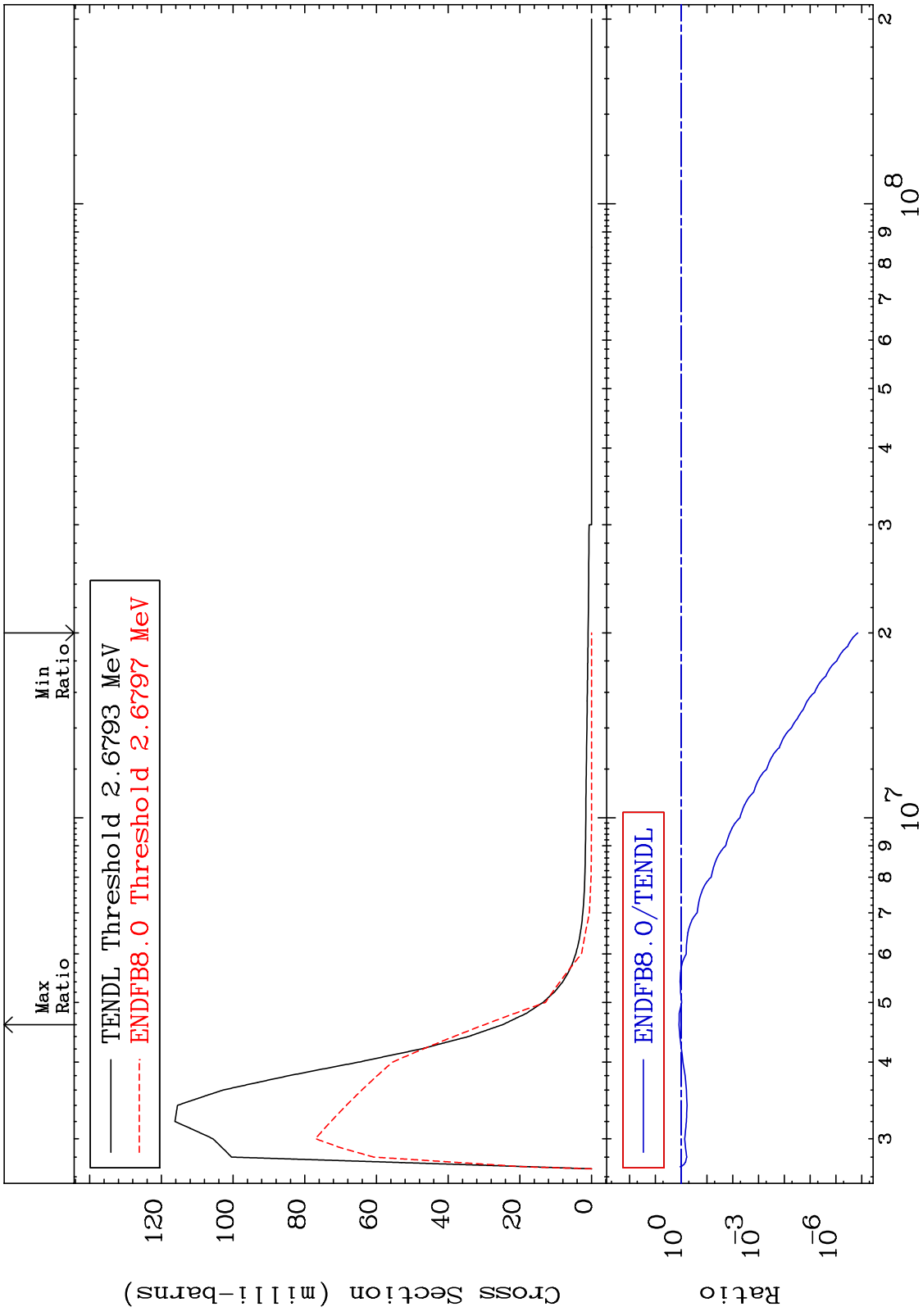
MAT 6225 MT= 59 (n,n') Level Cross Section 62-Sm-144 -21.95 To 789.7 %



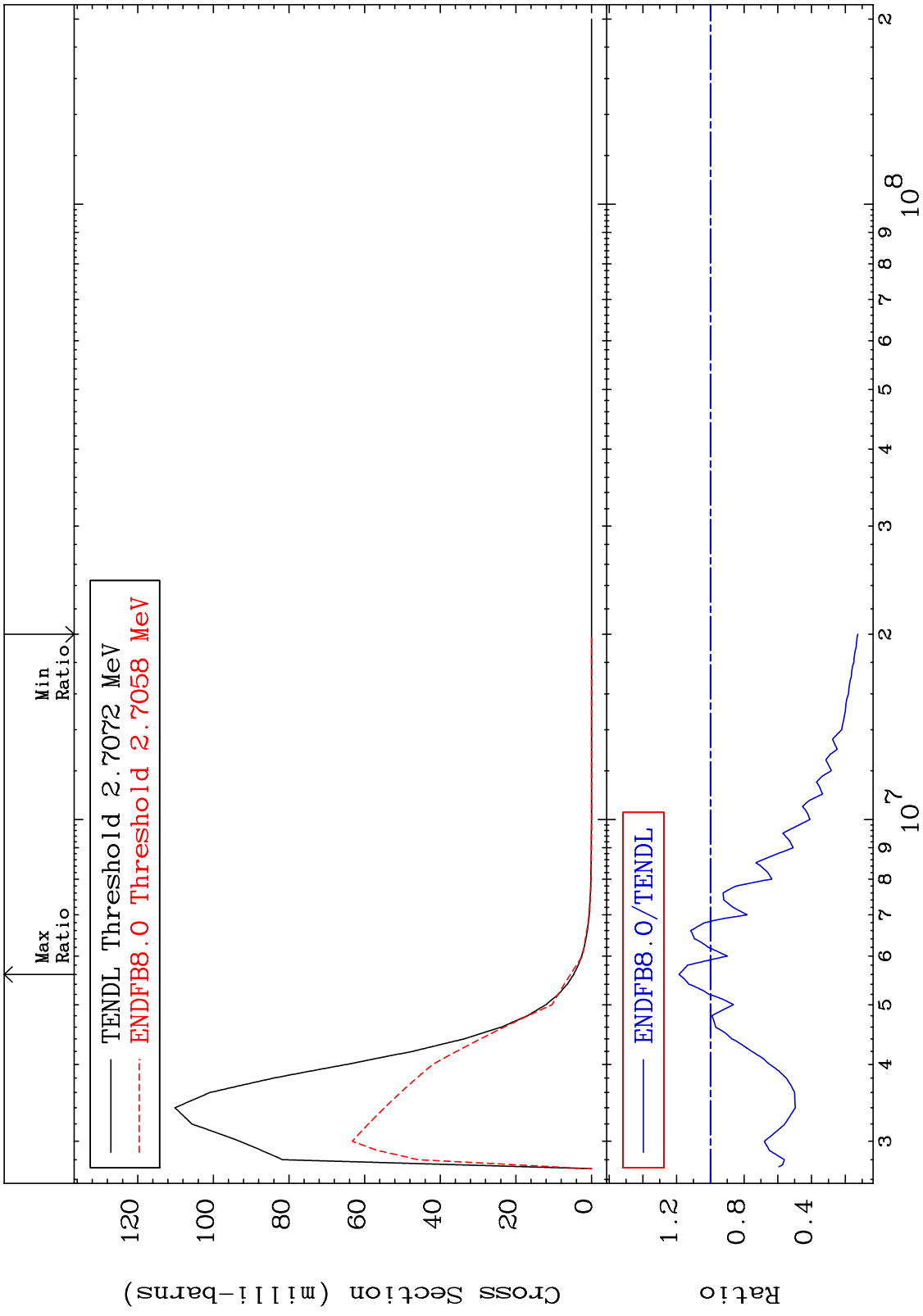
MAT 6225 MT= 60 (n,n') Level Cross Section 62-Sm-144 -84.05 To 106.0 %



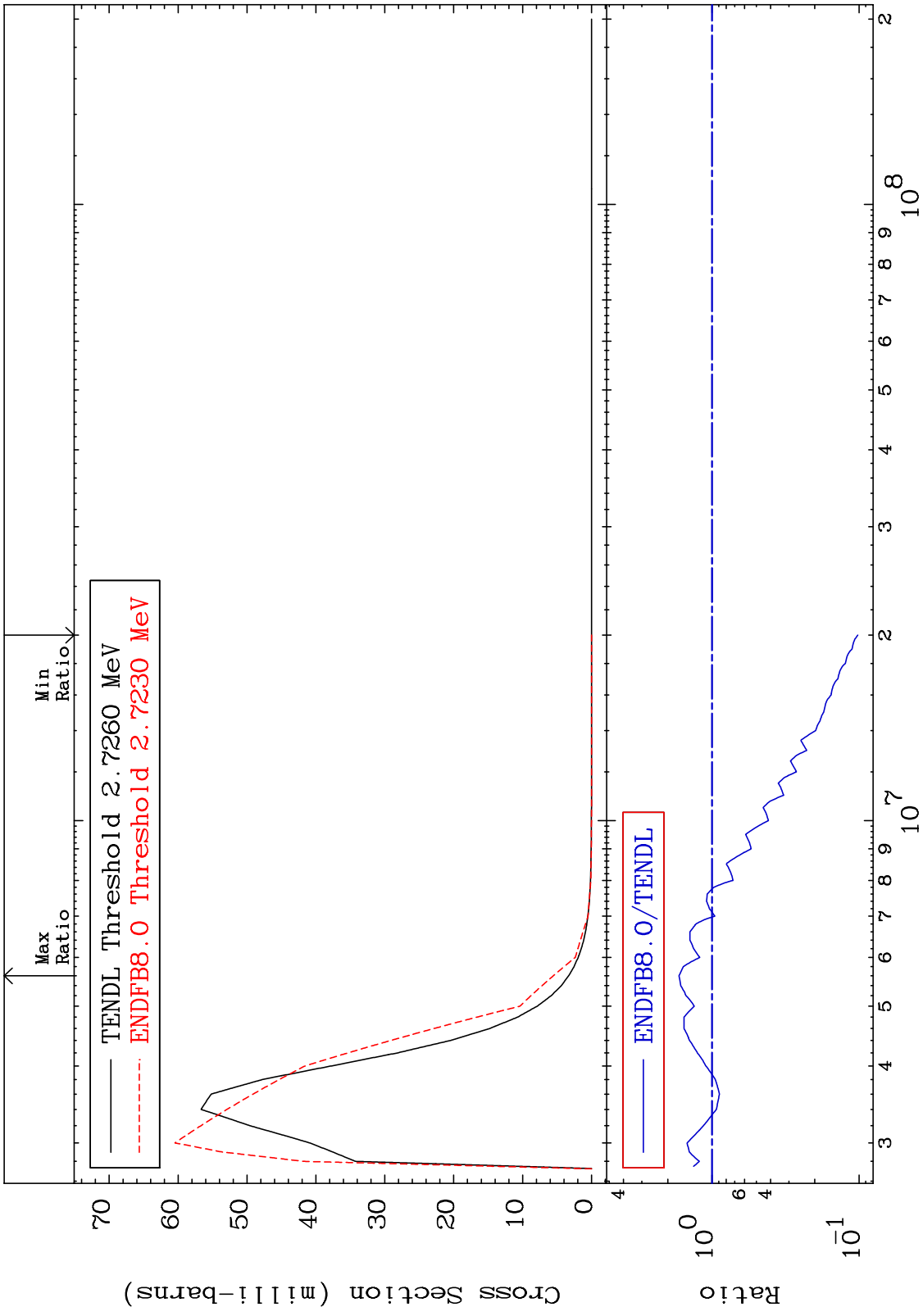
MAT 6225 MT= 61 (n,n') Level Cross Section 62-Sm-144
 -100.0 To 20.47 %



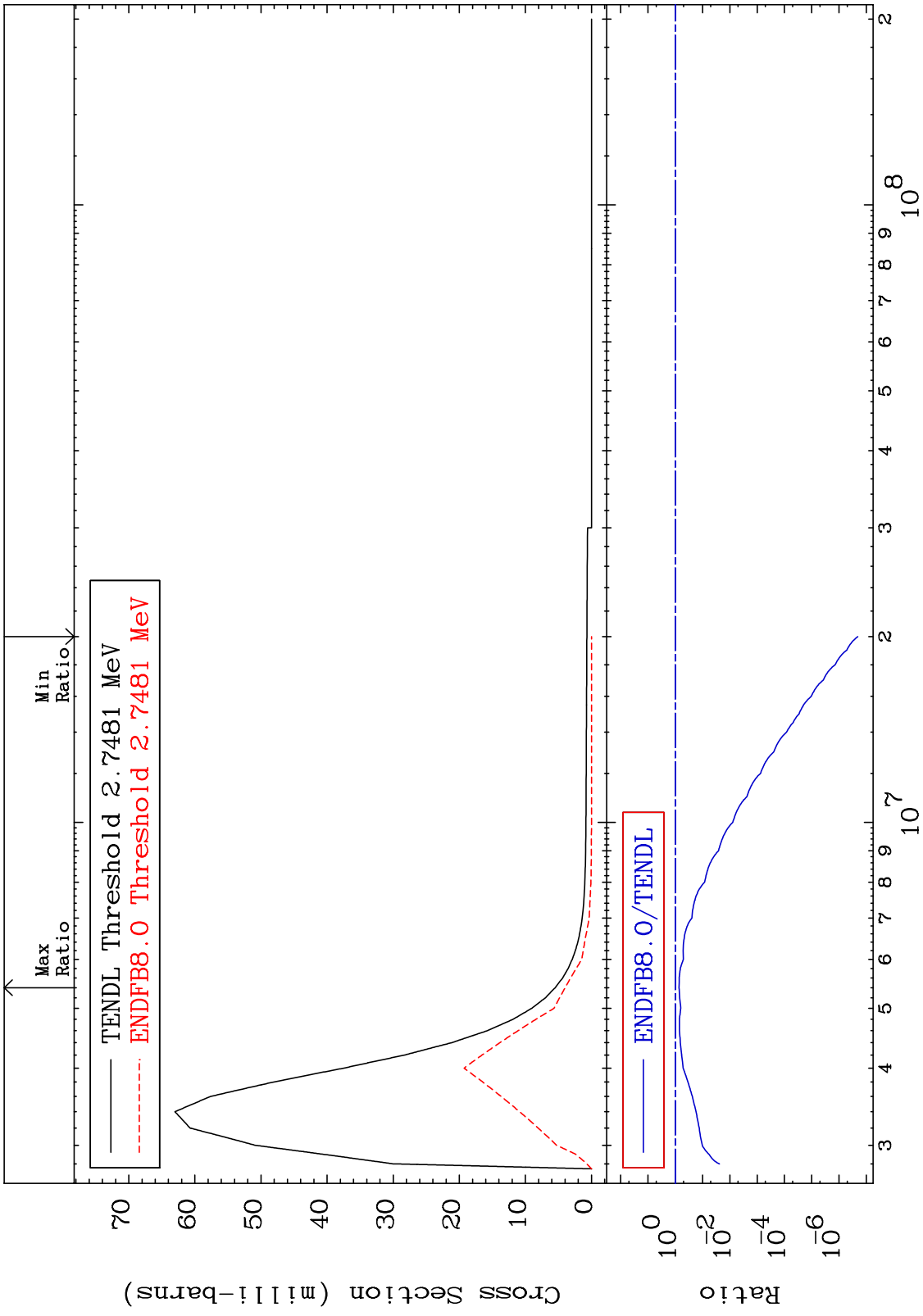
MAT 6225 MT= 62 (n,n') Level Cross Section 62-Sm-144 -87.46 To 18.58 %



MAT 6225 MT= 63 (n,n') Level Cross Section 62-Sm-144 -89.82 To 67.61 %

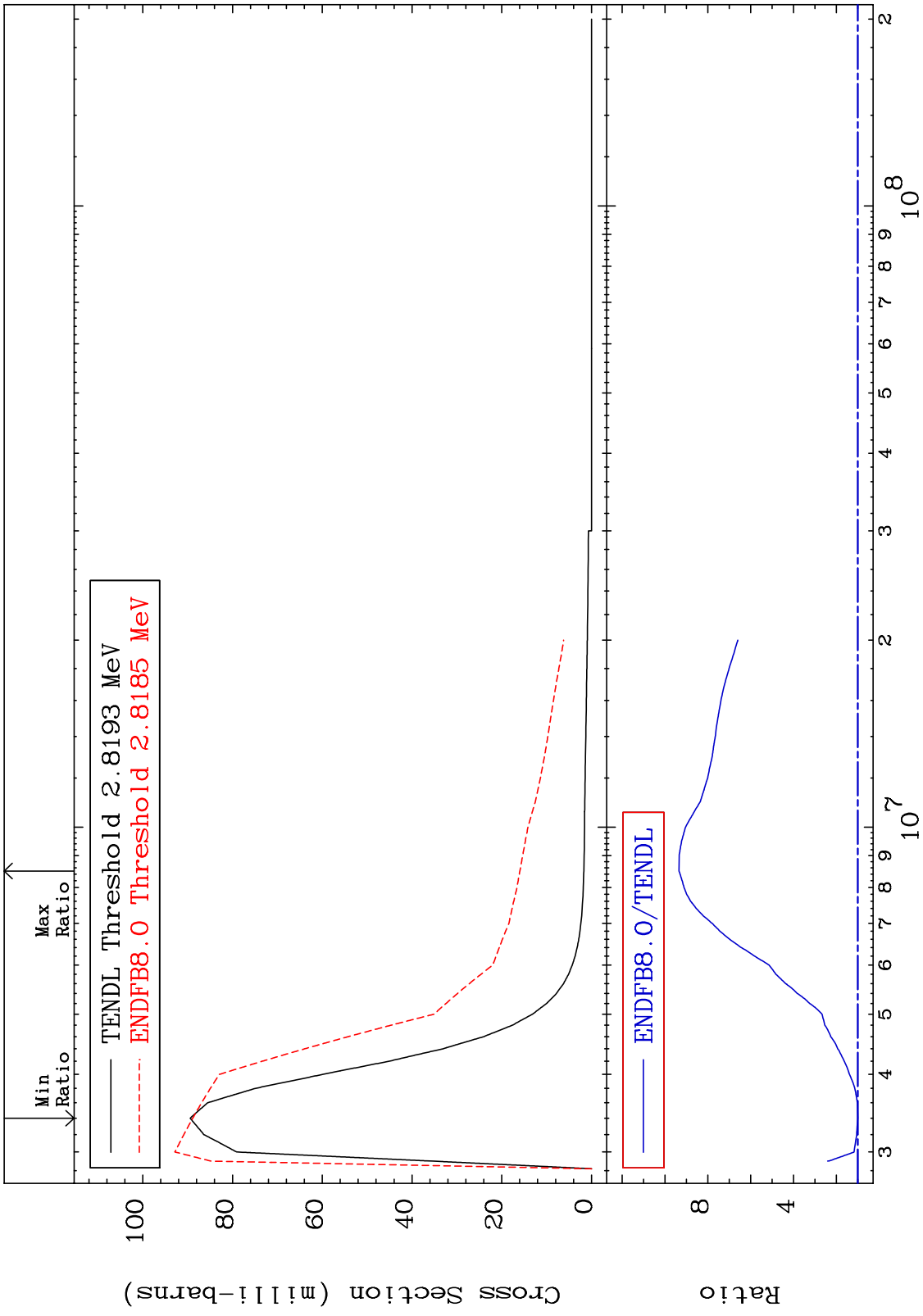


MAT 6225 MT= 64 (n,n') Level Cross Section 62-Sm-144 -100.0 To -27.18%

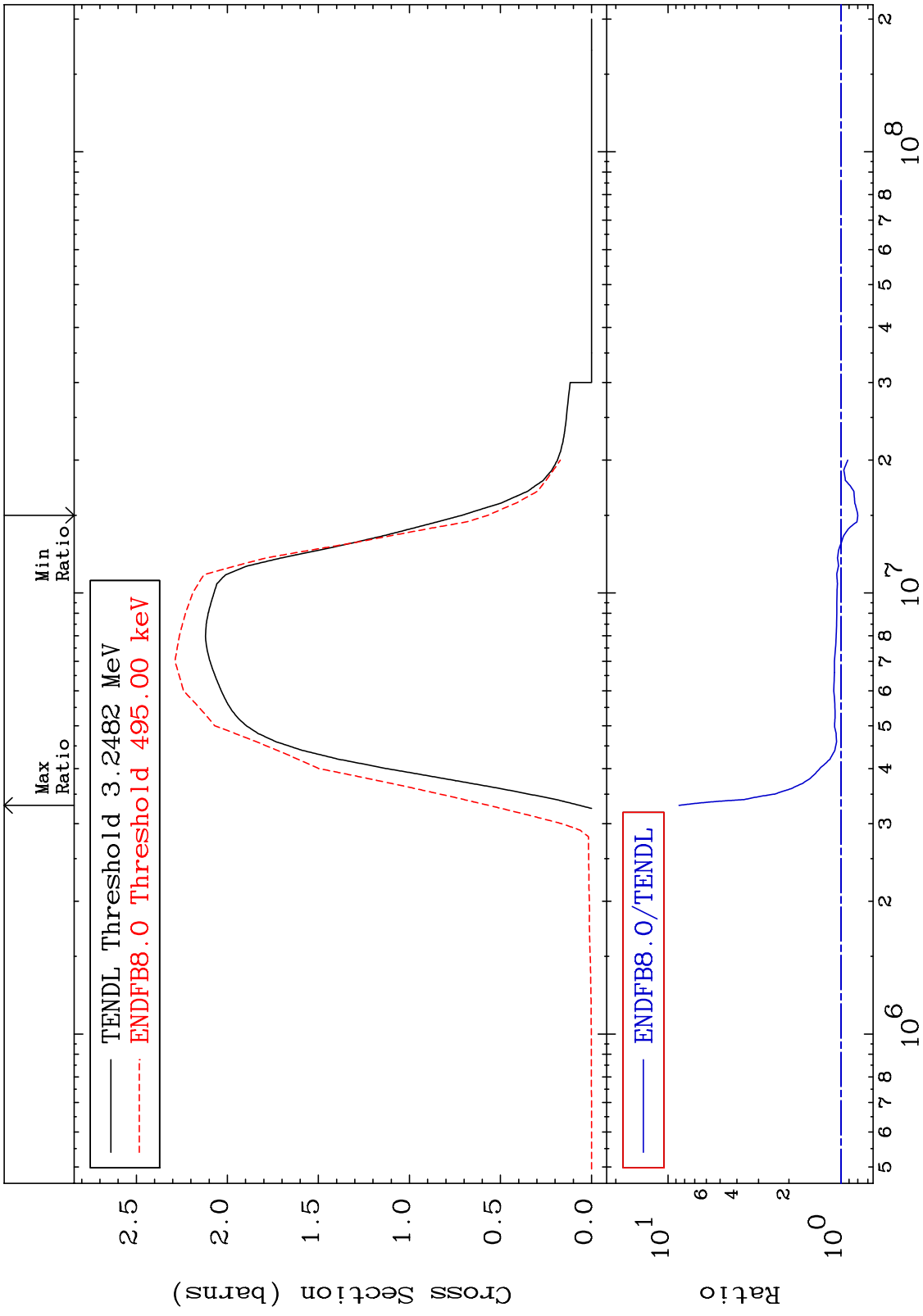


22 62-Sm-144 Incident Energy (eV)

MAT 6225 MT= 65 (n,n') Level Cross Section 62-Sm-144 -0.645 To 834.2 %



MAT 6225 (n,n') Continuum Cross Section 62-Sm-144 -20.00 To 763.0 %



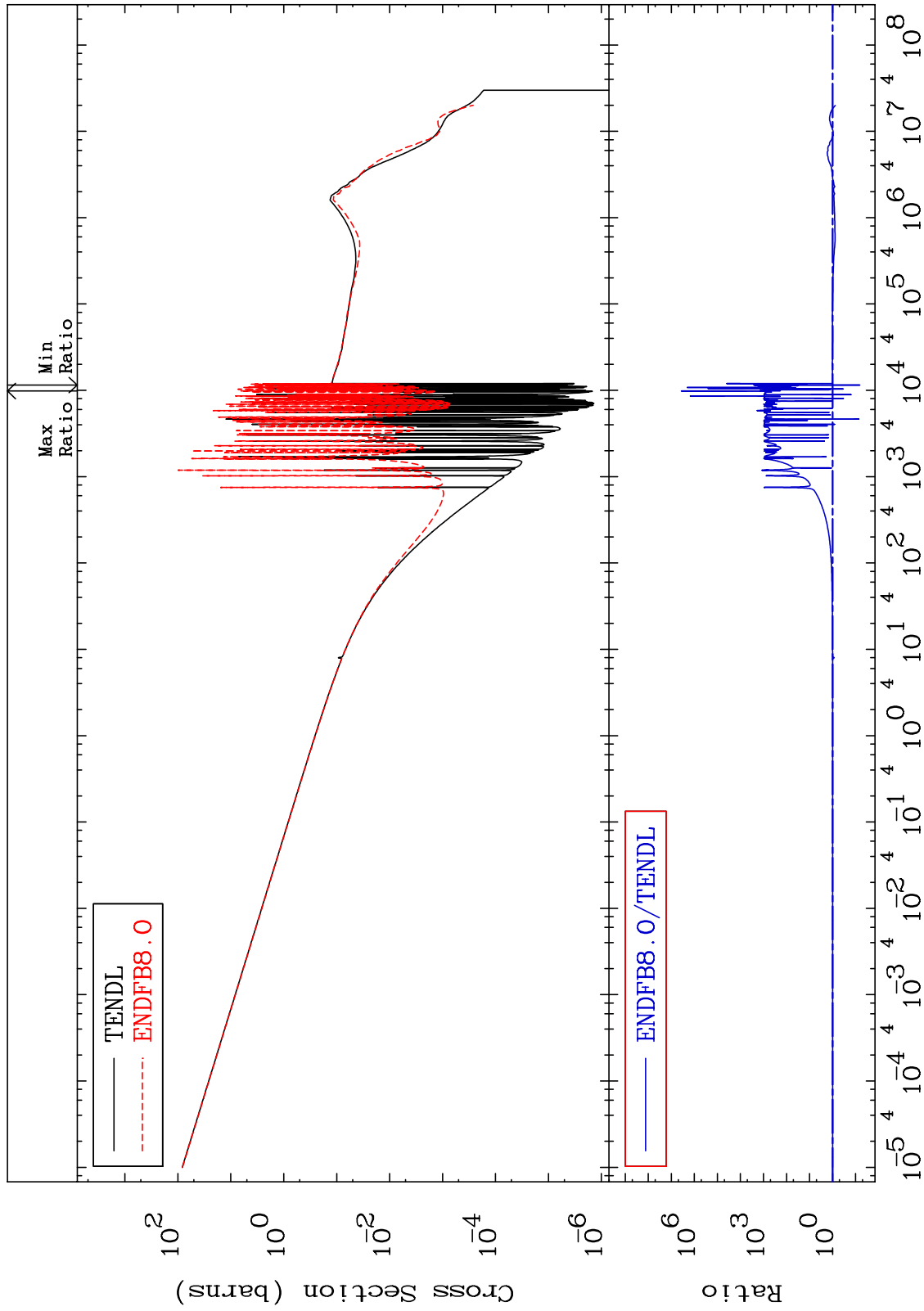
MAT 6225

(n, γ)

62-Sm-144

-93.41 To 9999. %

Cross Section



MAT 6225

(n,p)

62-Sm-144

-99.74 To 164.9 %

Cross Section

Min Ratio

Max Ratio

TENDL Threshold 12.000 keV
ENDFB8.0 Threshold 1.4000 MeV

Cross Section (milli-barns)

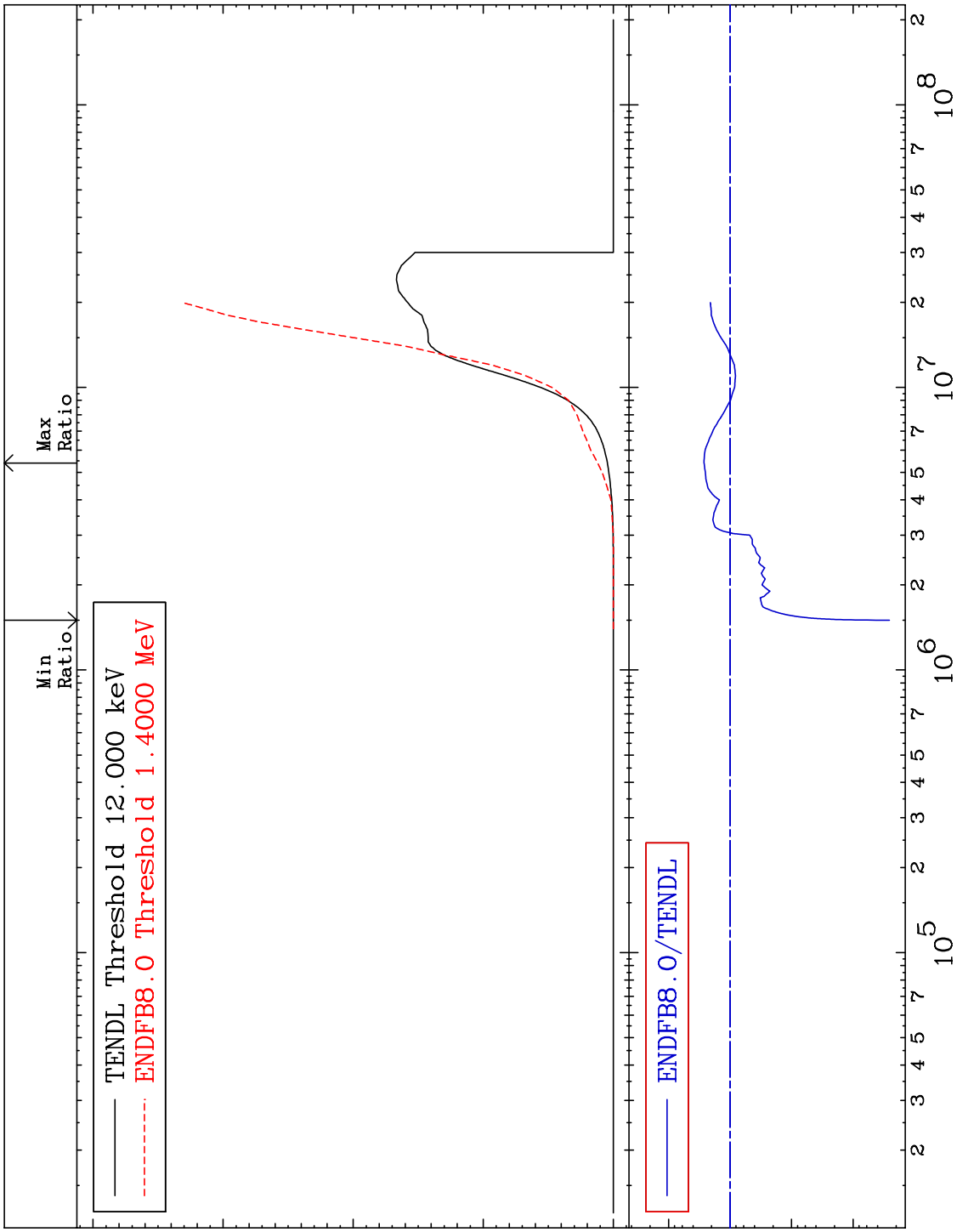
ENDFB8.0/TENDL

Ratio

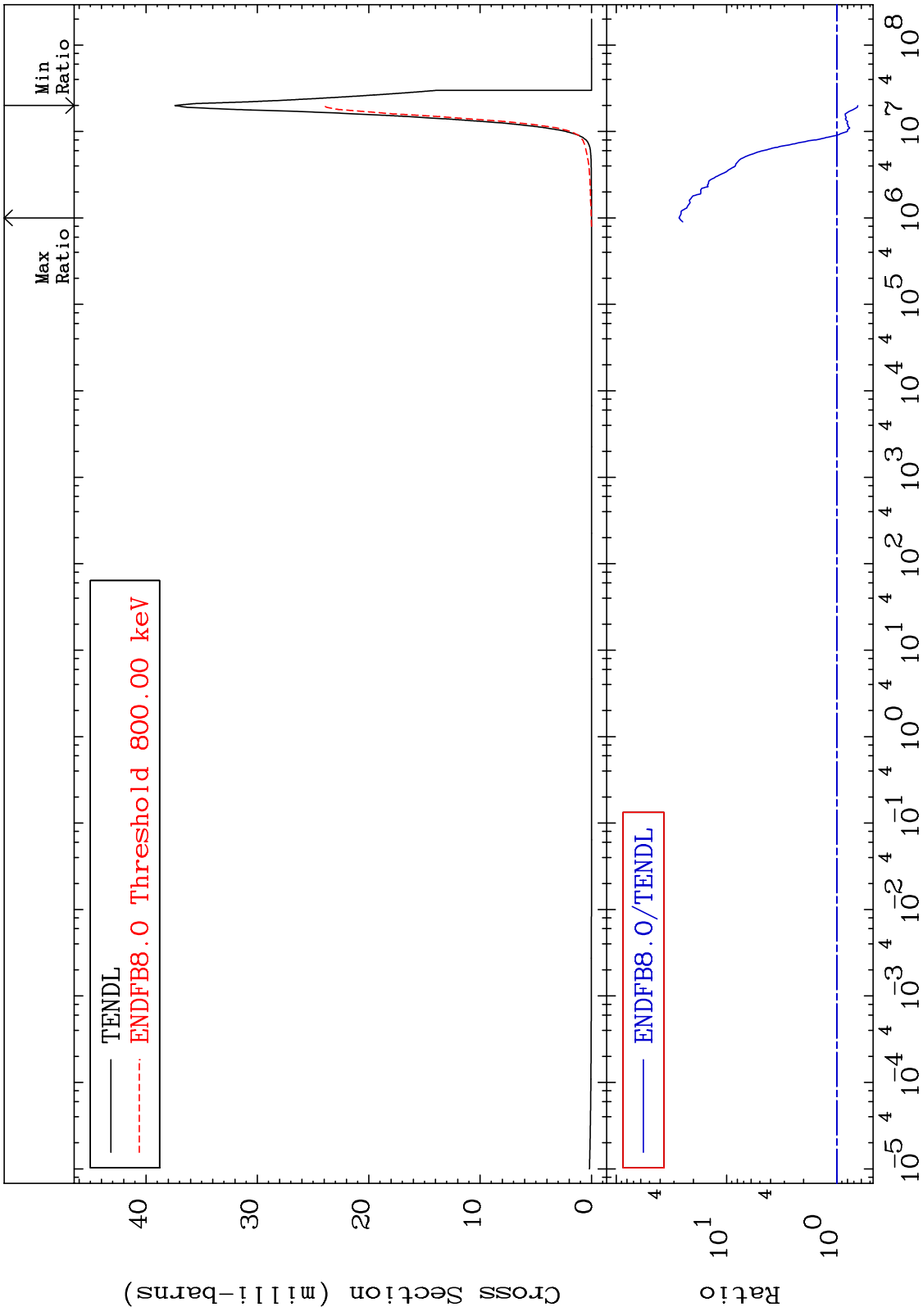
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Incident Energy (eV)

62-Sm-144



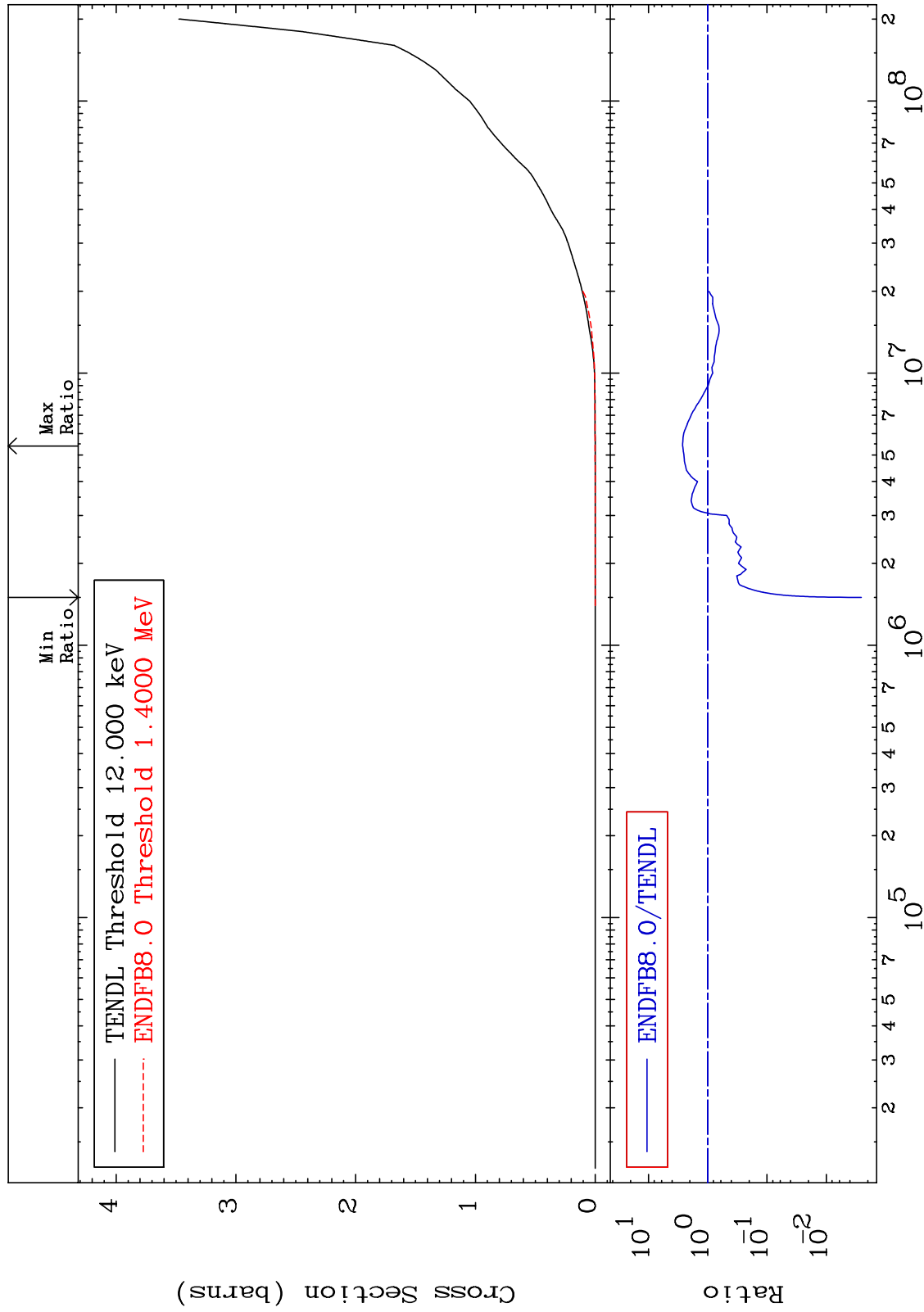
MAT 6225 (n, α) Cross Section 62-Sm-144 -35.49 To 2600. %



MAT 6225

Hydrogen Production
Cross Section

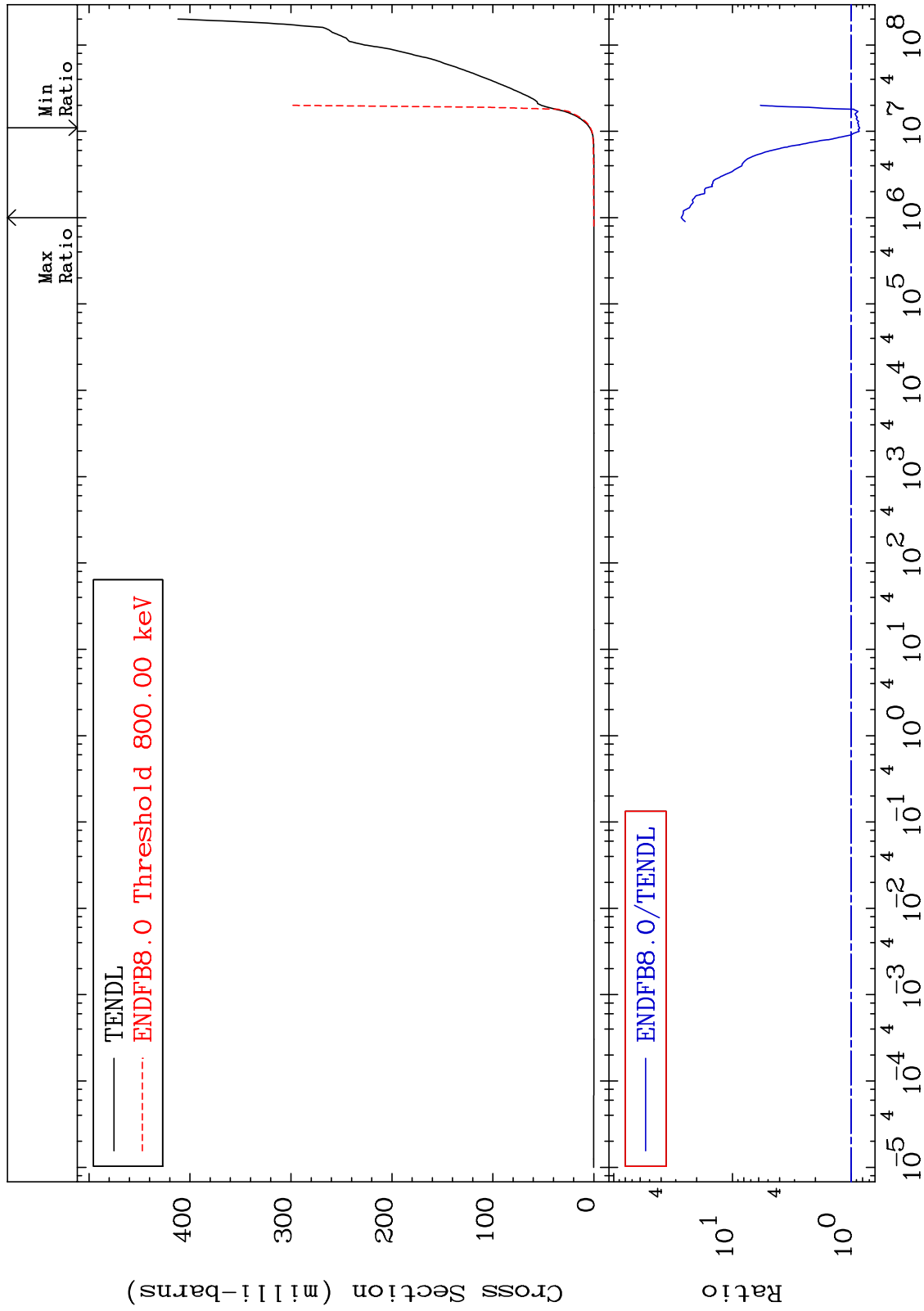
62-Sm-144
-99.74 To 164.9 %



MAT 6225

He-4 Production
Cross Section

62-Sm-144
-15.63 To 2600. %

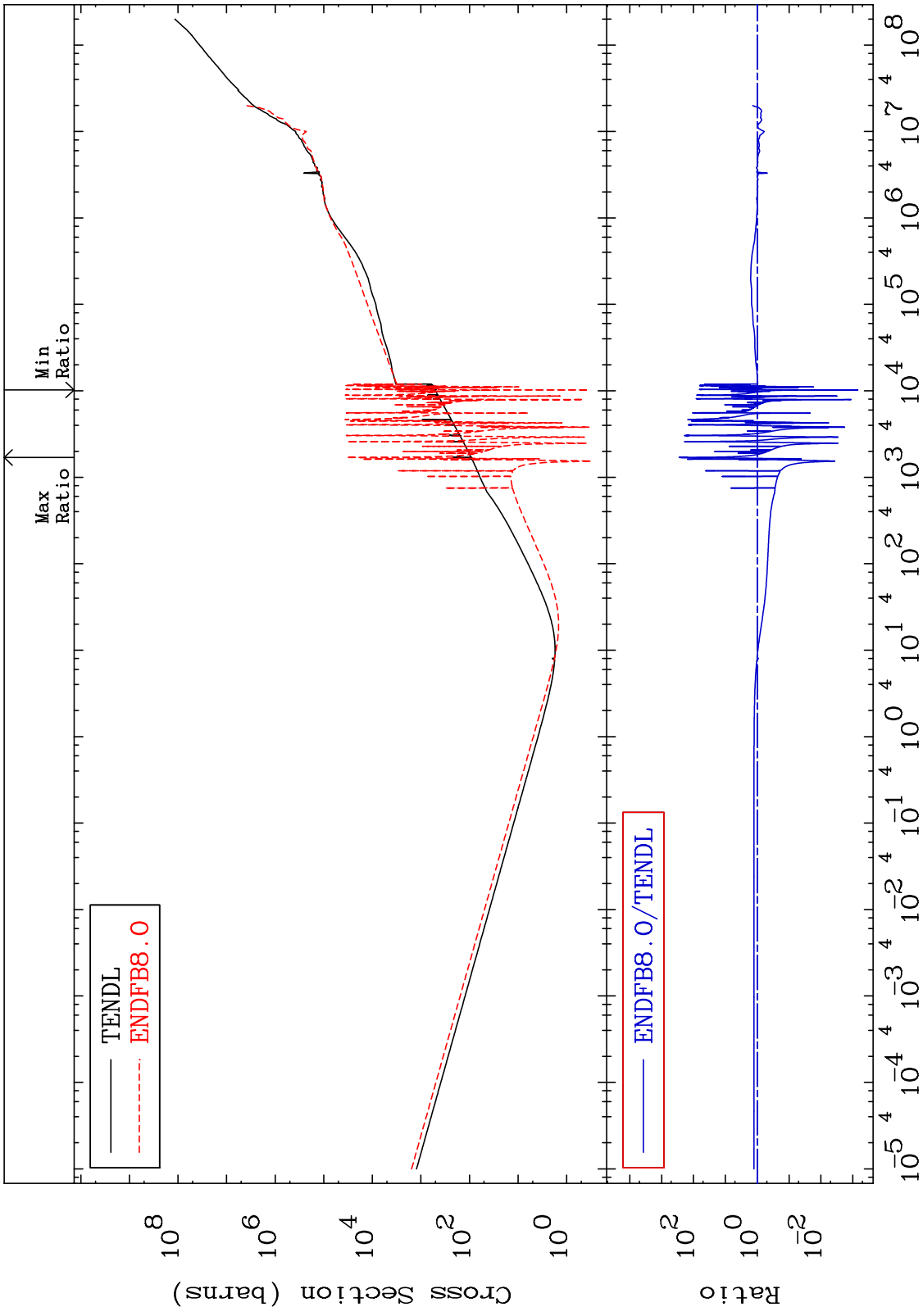


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Incident Energy (eV)

62-Sm-144

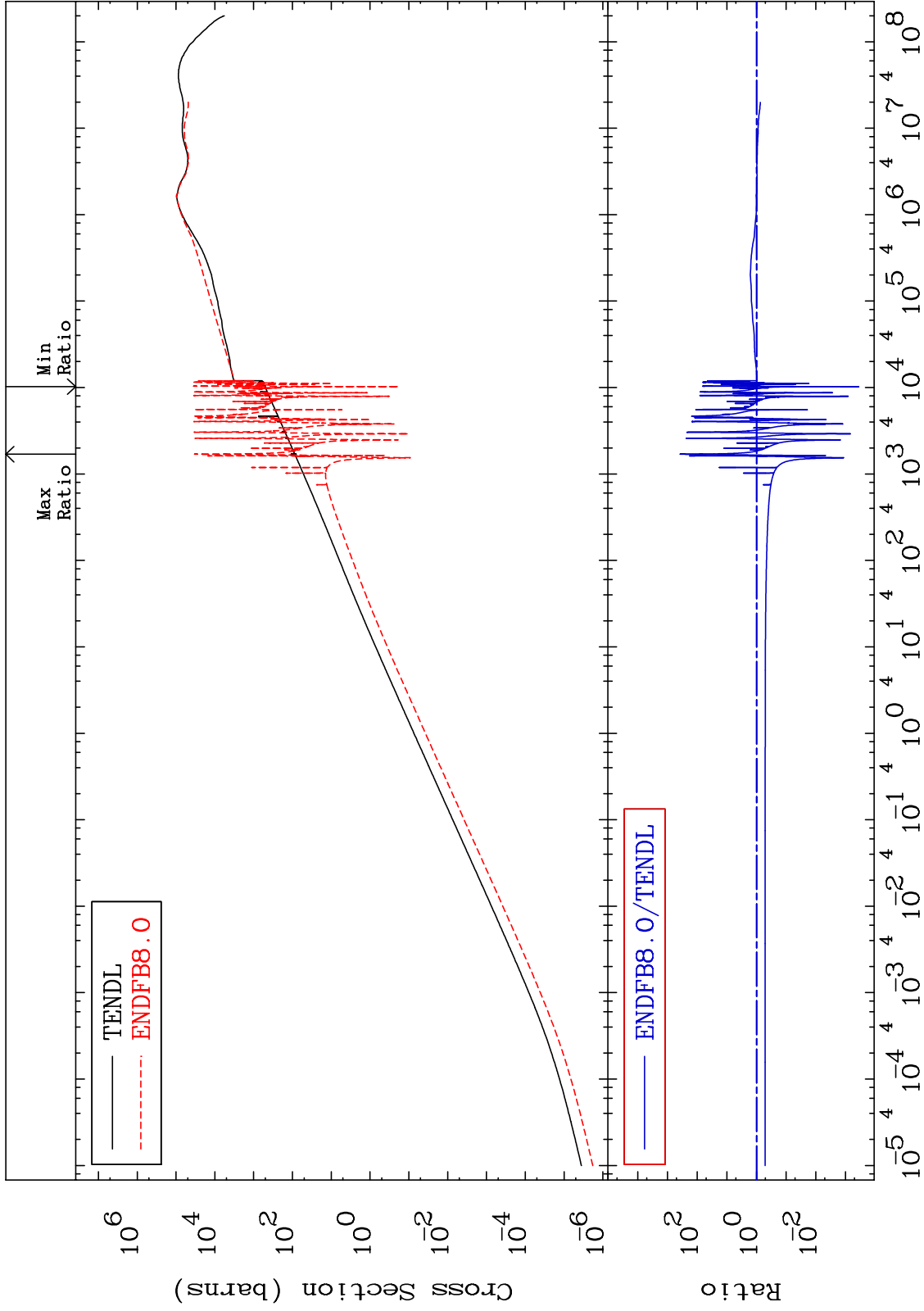
MAT 6225 Kerma total (eV-barns) 62-Sm-144
 Cross Section -99.93 To 9999. %



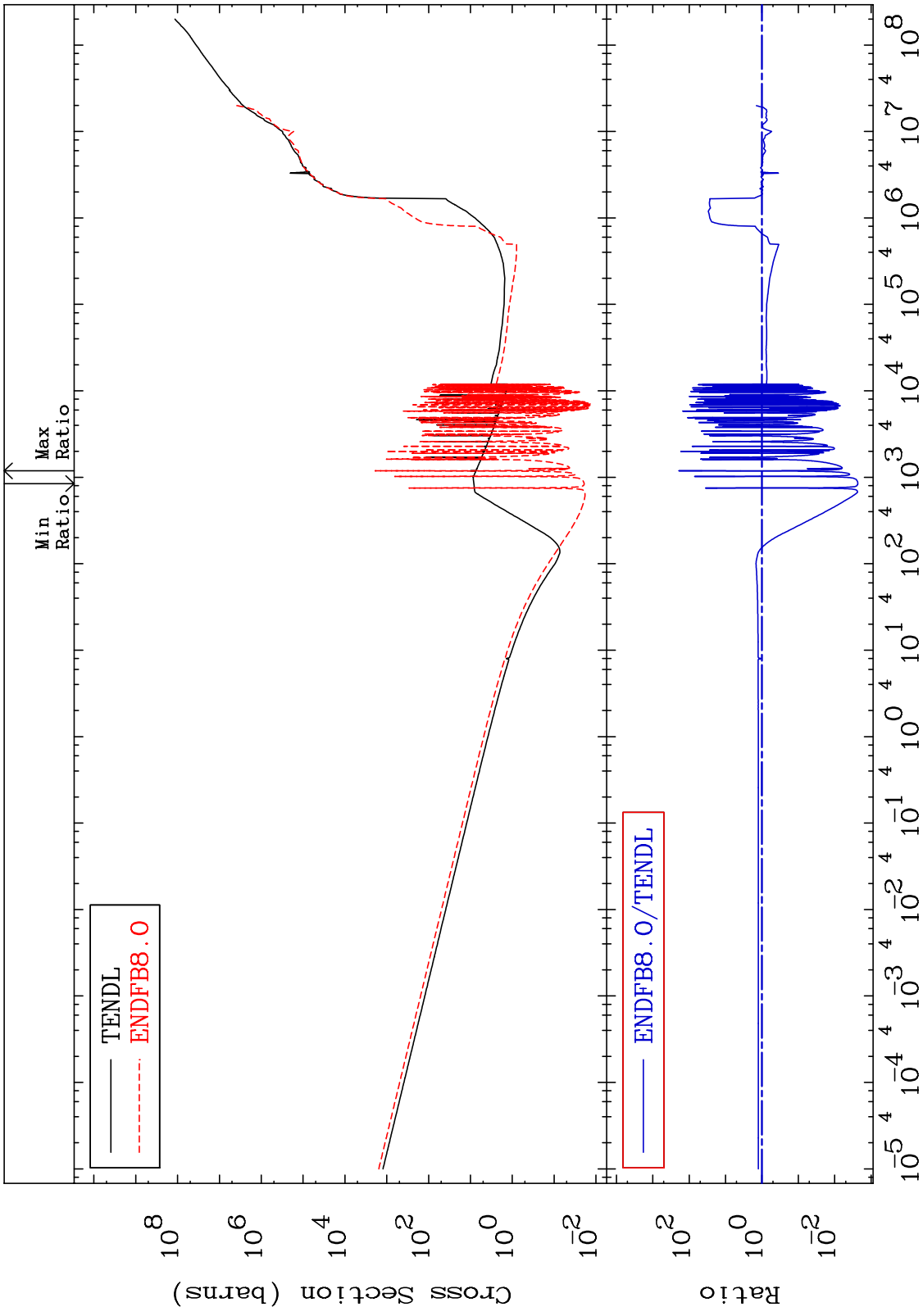
MAT 6225

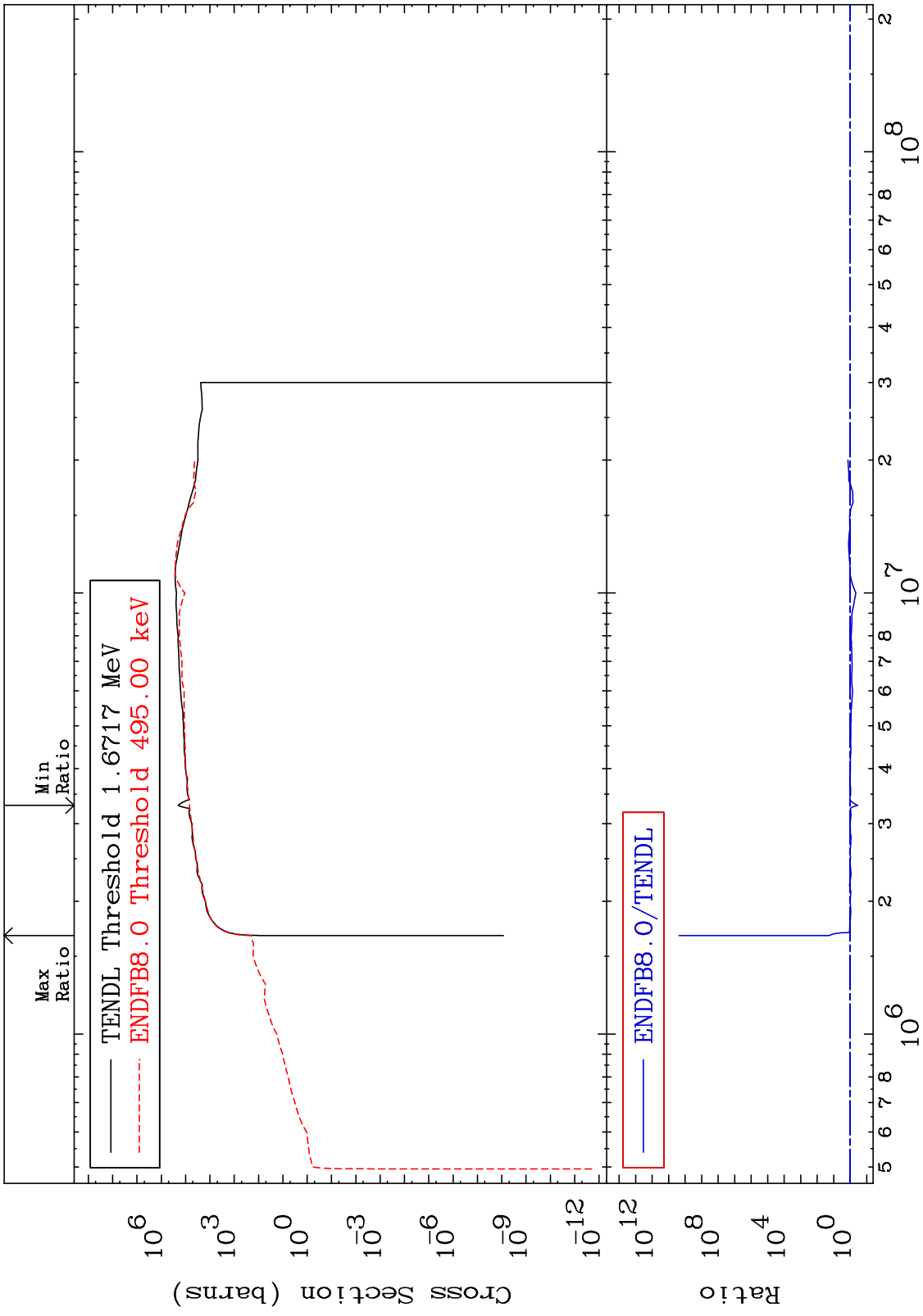
Kerma elastic
Cross Section

62-Sm-144
-99.96 To 9999. %

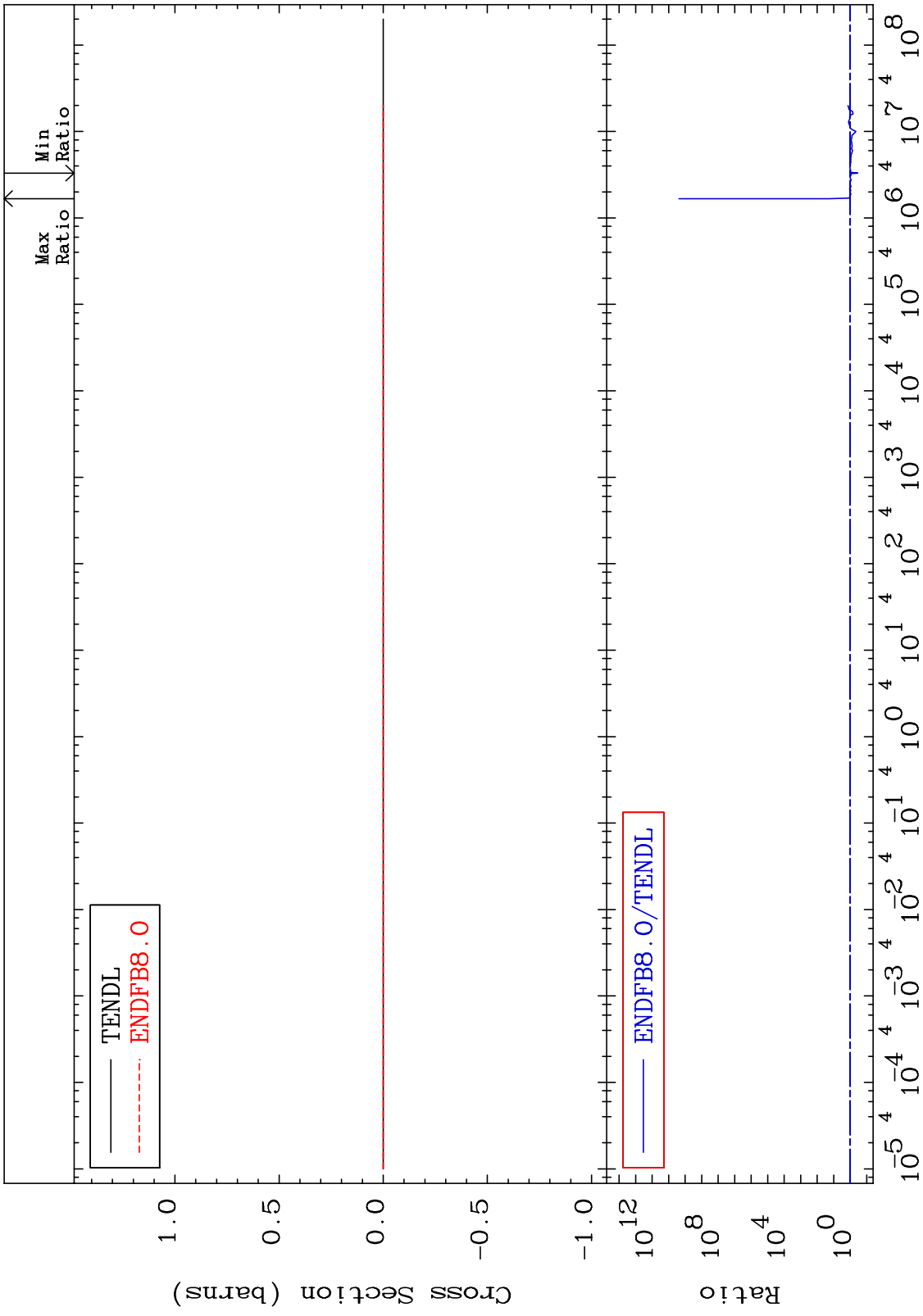


MAT 6225 Kerma non-elastic (all but mt.2) 62-Sm-144
 Cross Section -99.77 To 9999. %

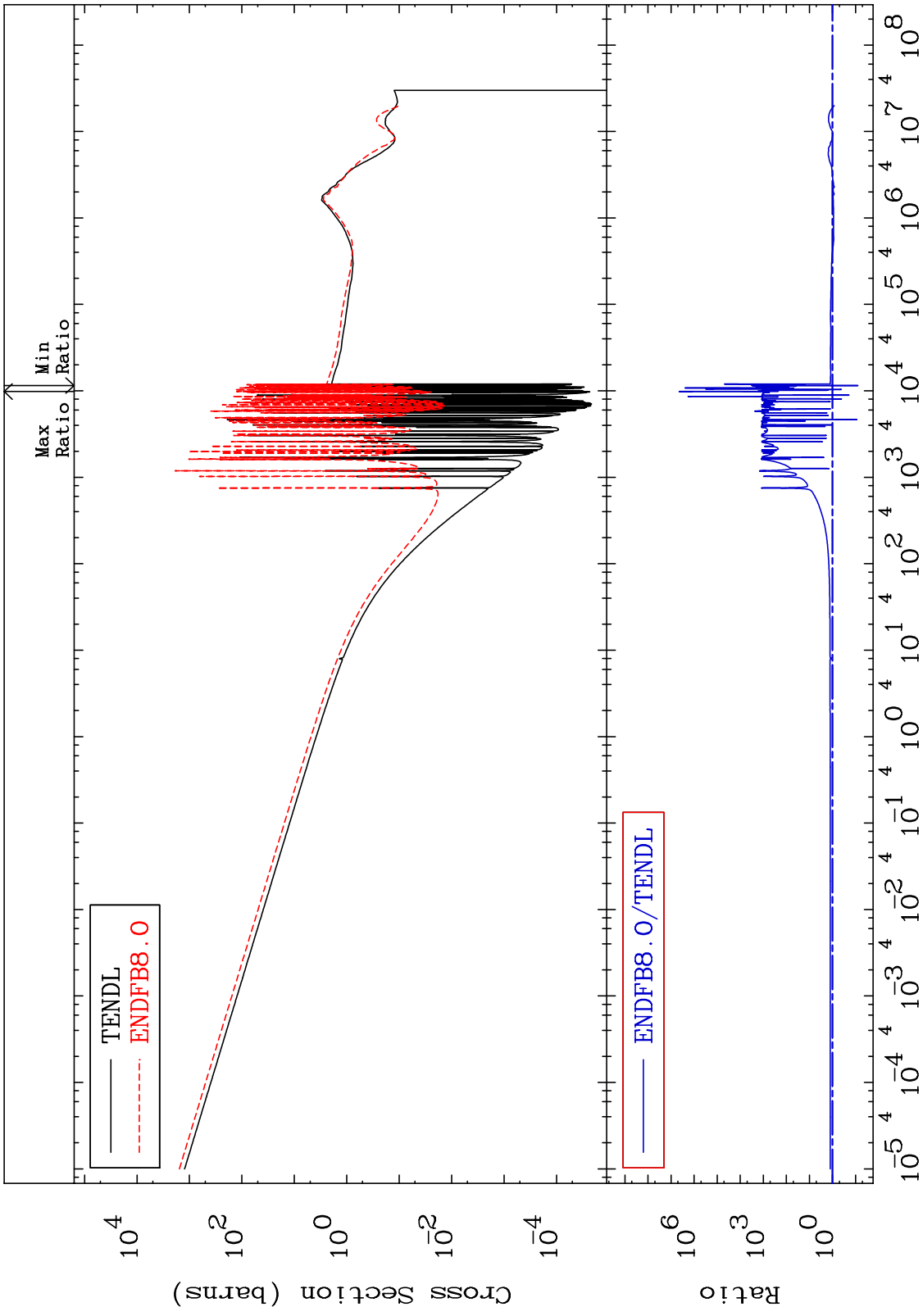




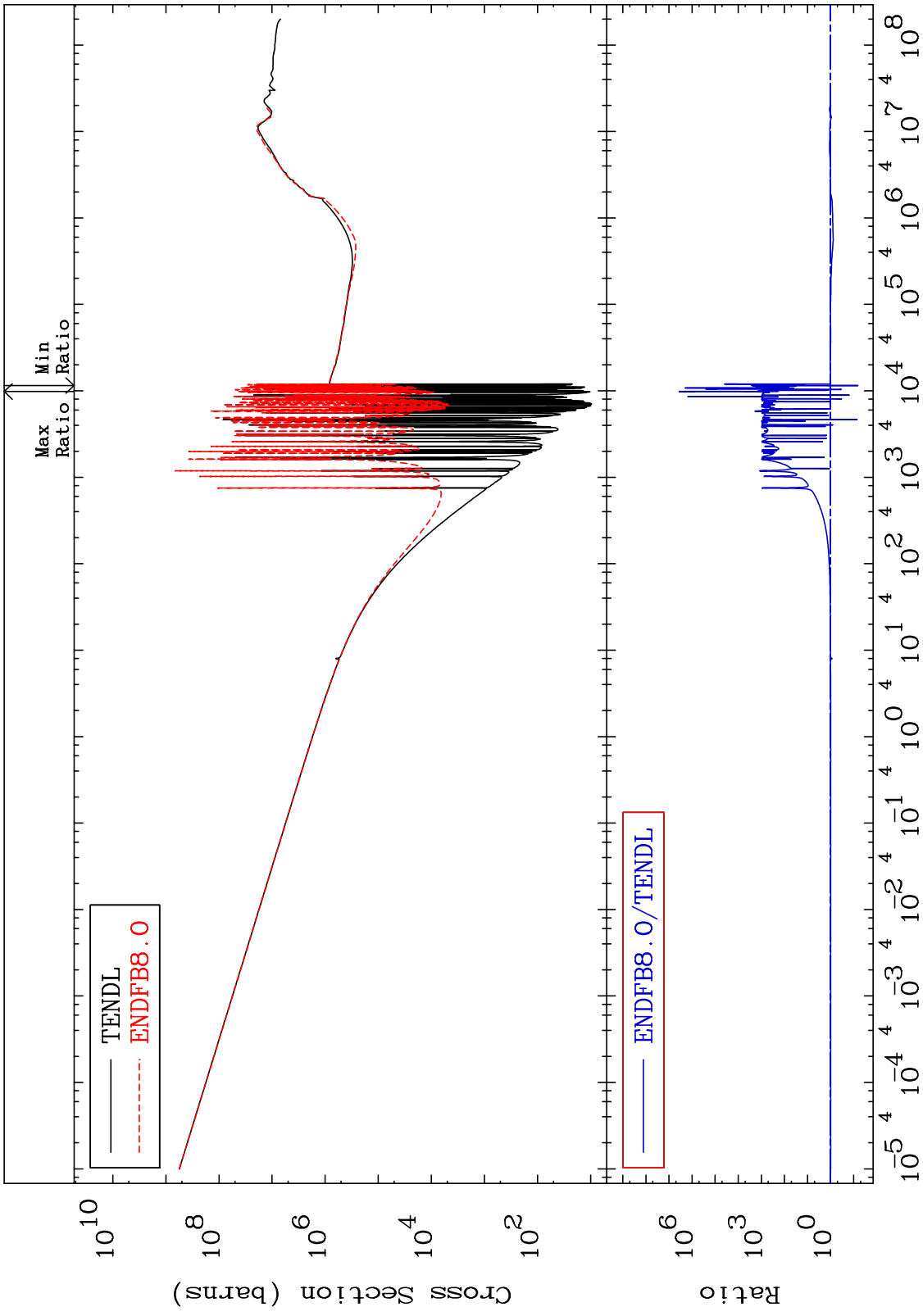
MAT 6225 Kerma fission (mt18 or mt19-20-21-38) 62-Sm-144
 Cross Section -65.72 To 9999. %



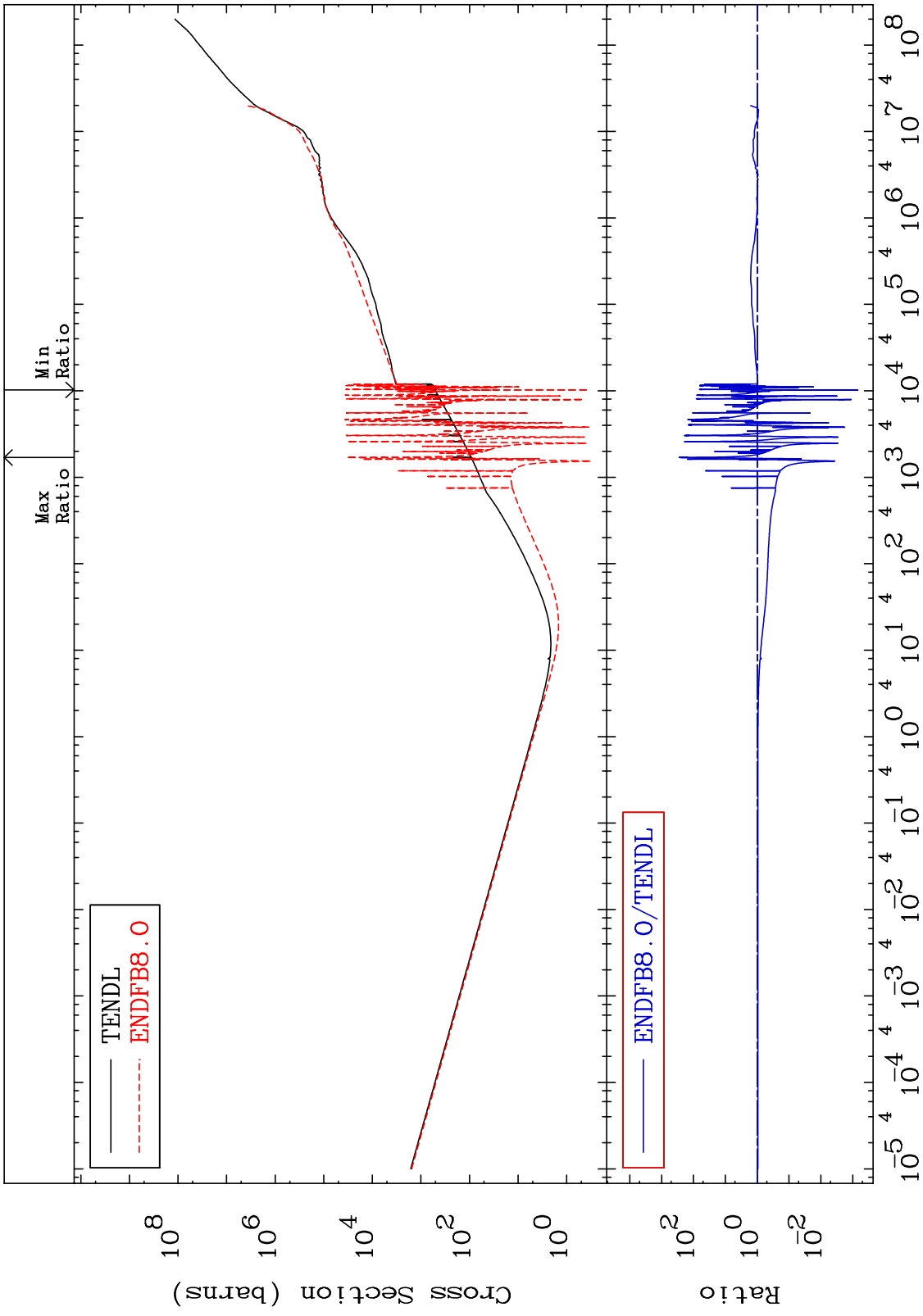
MAT 6225 Kerma capture (mt102) 62-Sm-144
 Cross Section -92.07 To 9999. %



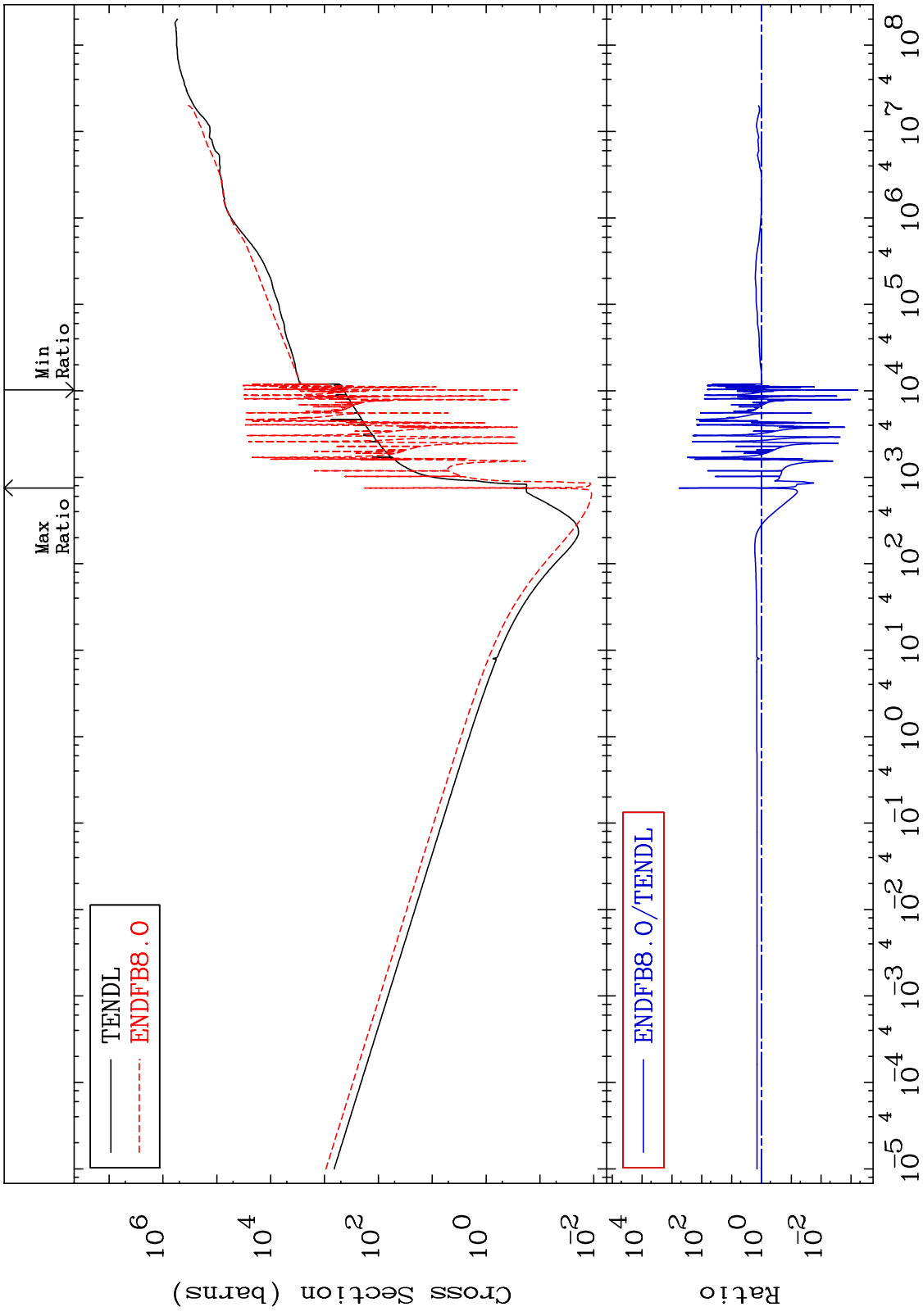
MAT 6225 62-Sm-144
-93.41 To 9999. %
 Total photon (eV-barns)
 Cross Section



MAT 6225 Total kinematic kerma (high limit) 62-Sm-144
 Cross Section -99.93 To 9999. %



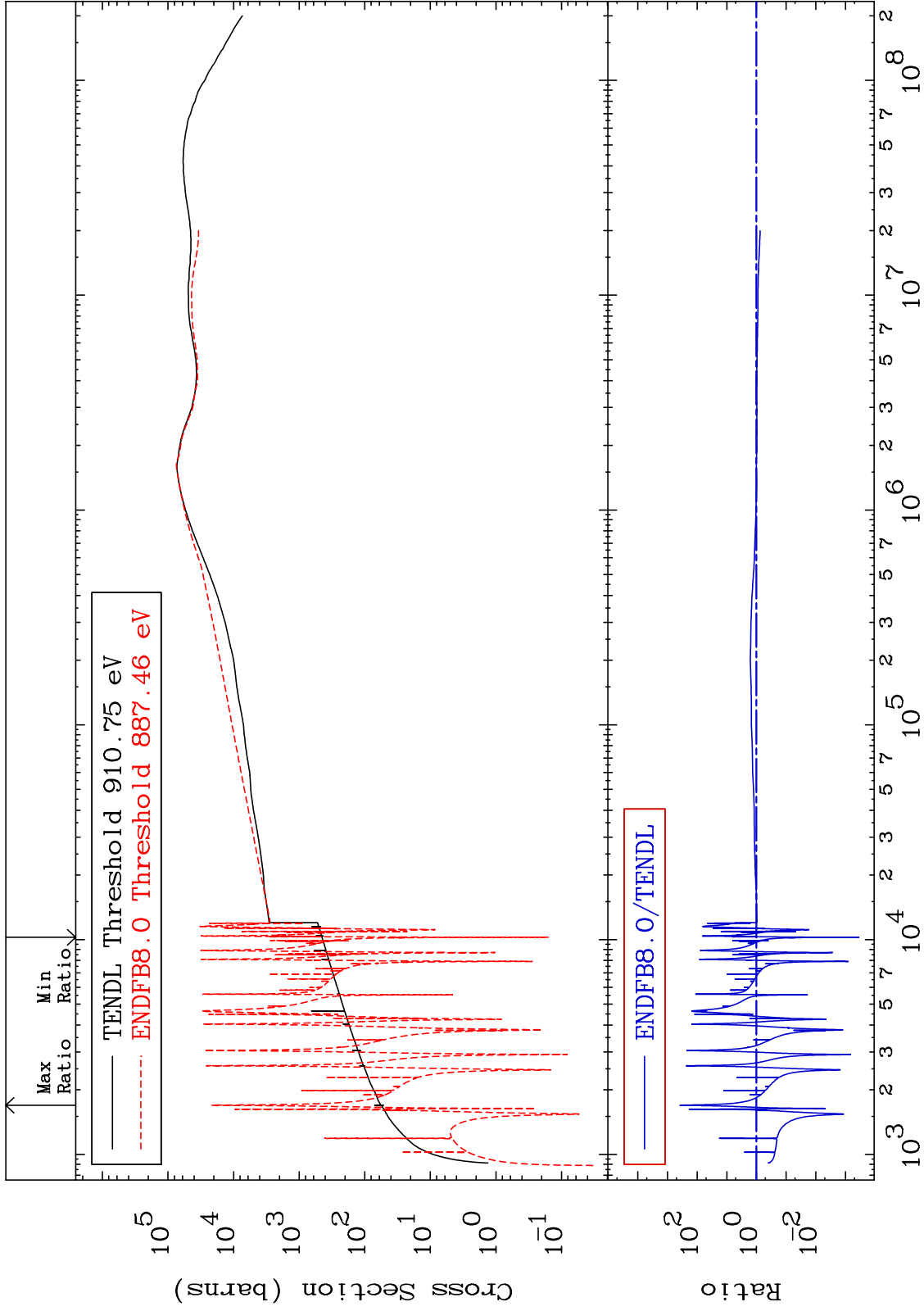
MAT 6225 Dpa total (eV-barns) 62-Sm-144
 Cross Section -99.94 To 9999. %



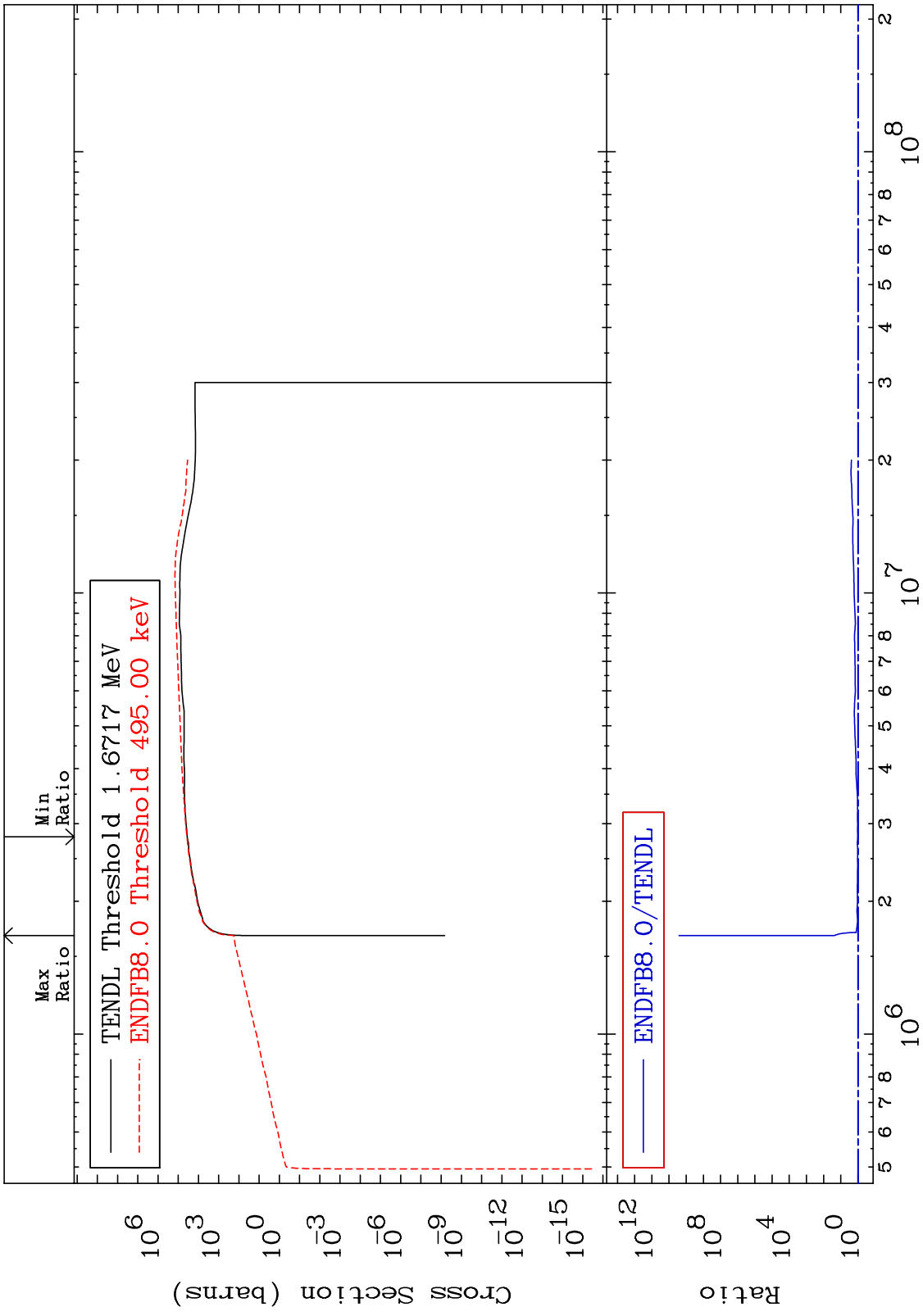
MAT 6225

Dpa elastic (mt2)
Cross Section

62-Sm-144
-99.96 To 9999. %



MAT 6225 Dpa inelastic (mt51-91) 62-Sm-144
 Cross Section 1.631 To 9999. %



MAT 6225 Dpa disappearance (mt102 -120) 62-Sm-144
 Cross Section -93.73 To 9999. %

