

Program Complot
(Version 2018-1)

by

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U.S.A.

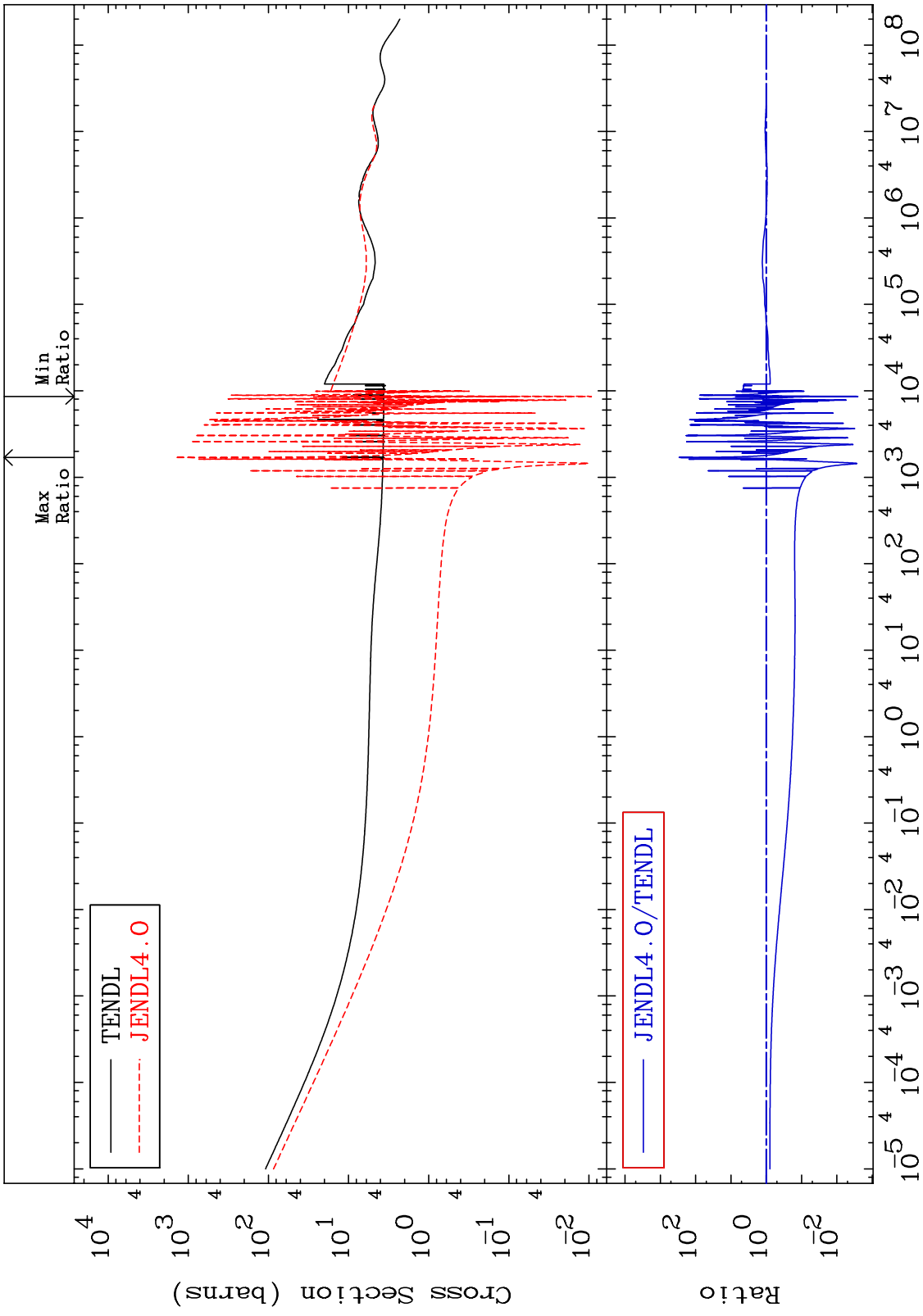
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E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6225 62-Sm-144 -99.74 To 9999. %

Total
Cross Section



62-Sm-144

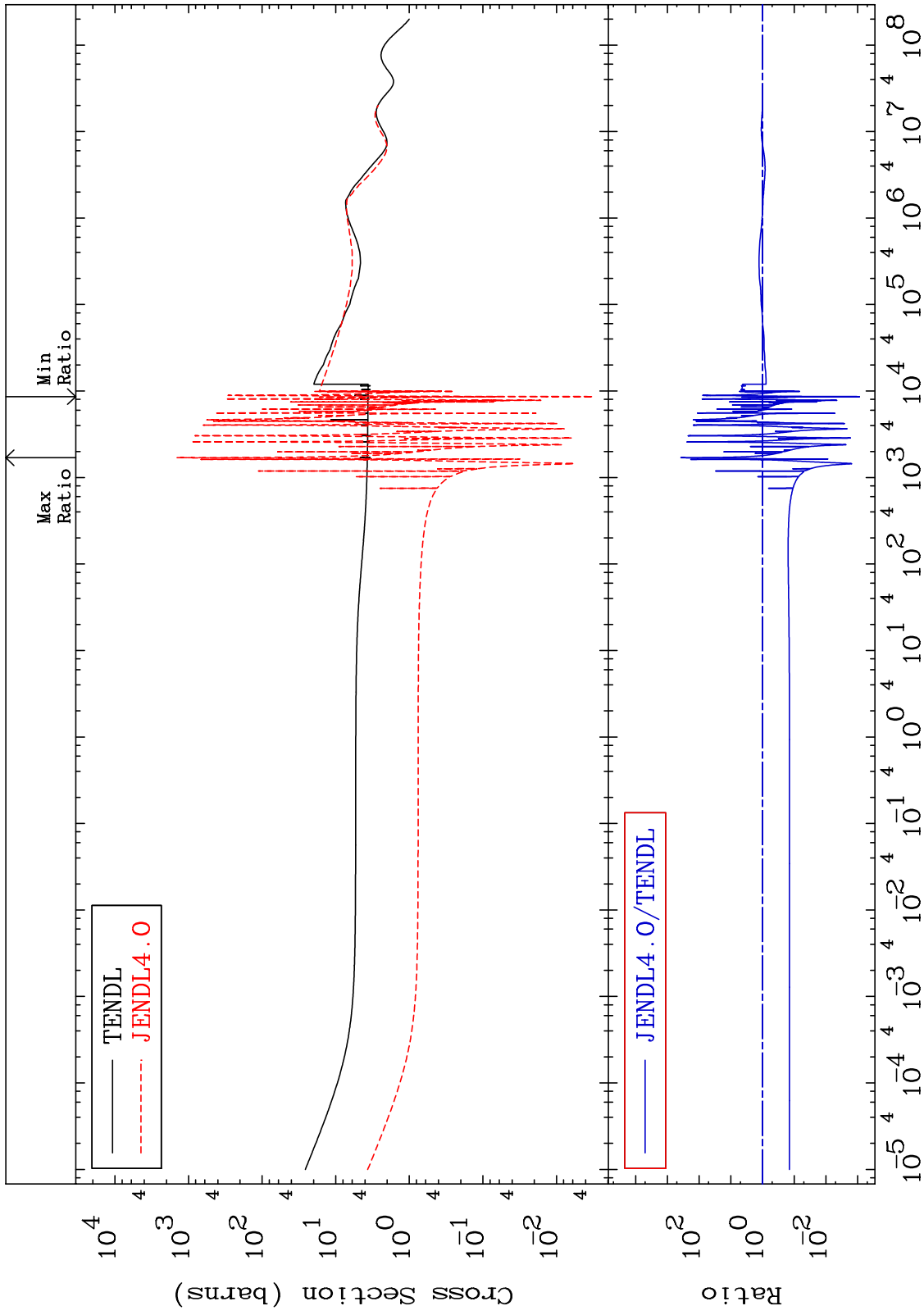
Incident Energy (eV)

1

MAT 6225

Elastic
Cross Section

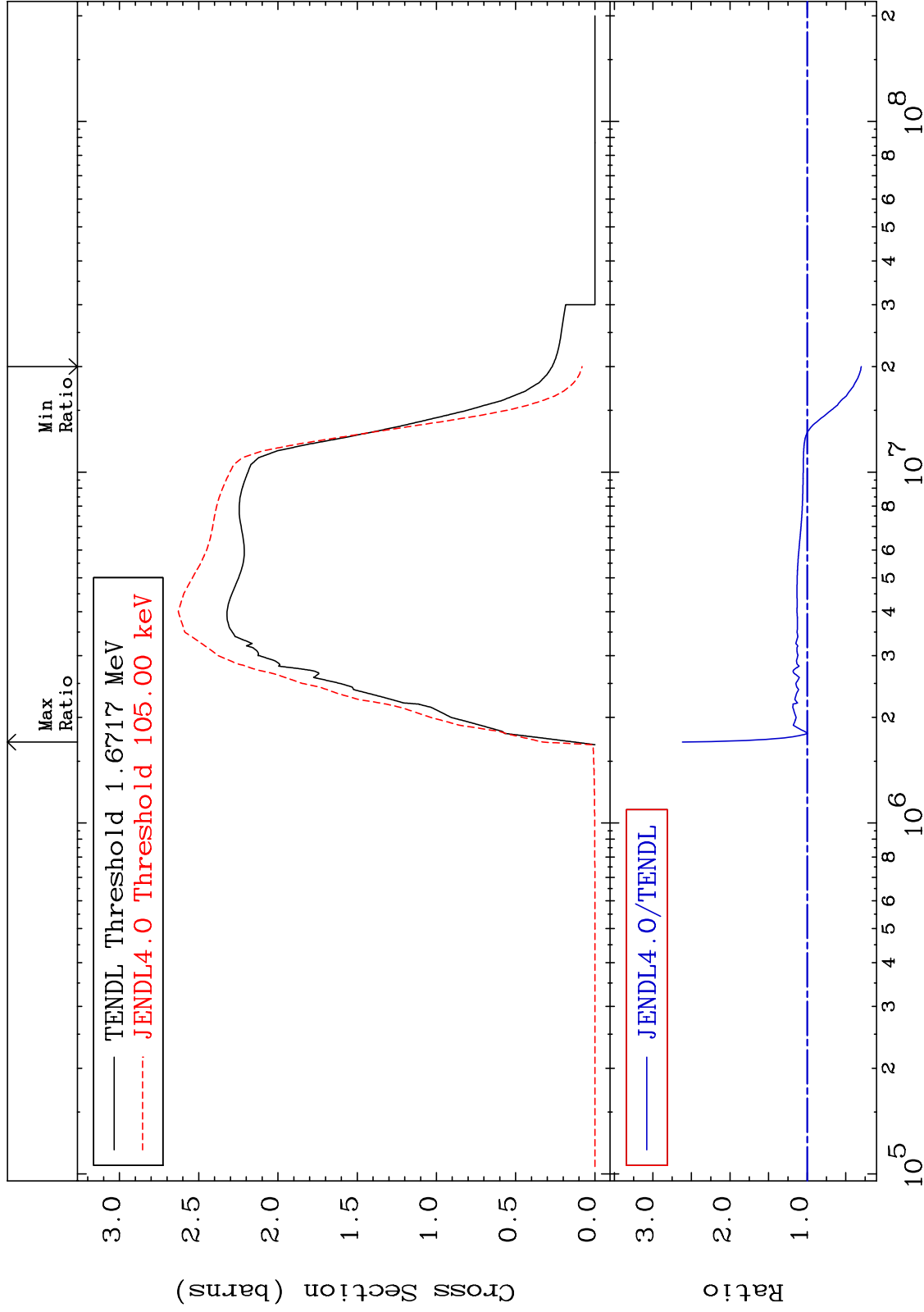
62-Sm-144
-99.91 To 9999. %



MAT 6225

Inelastic
Cross Section

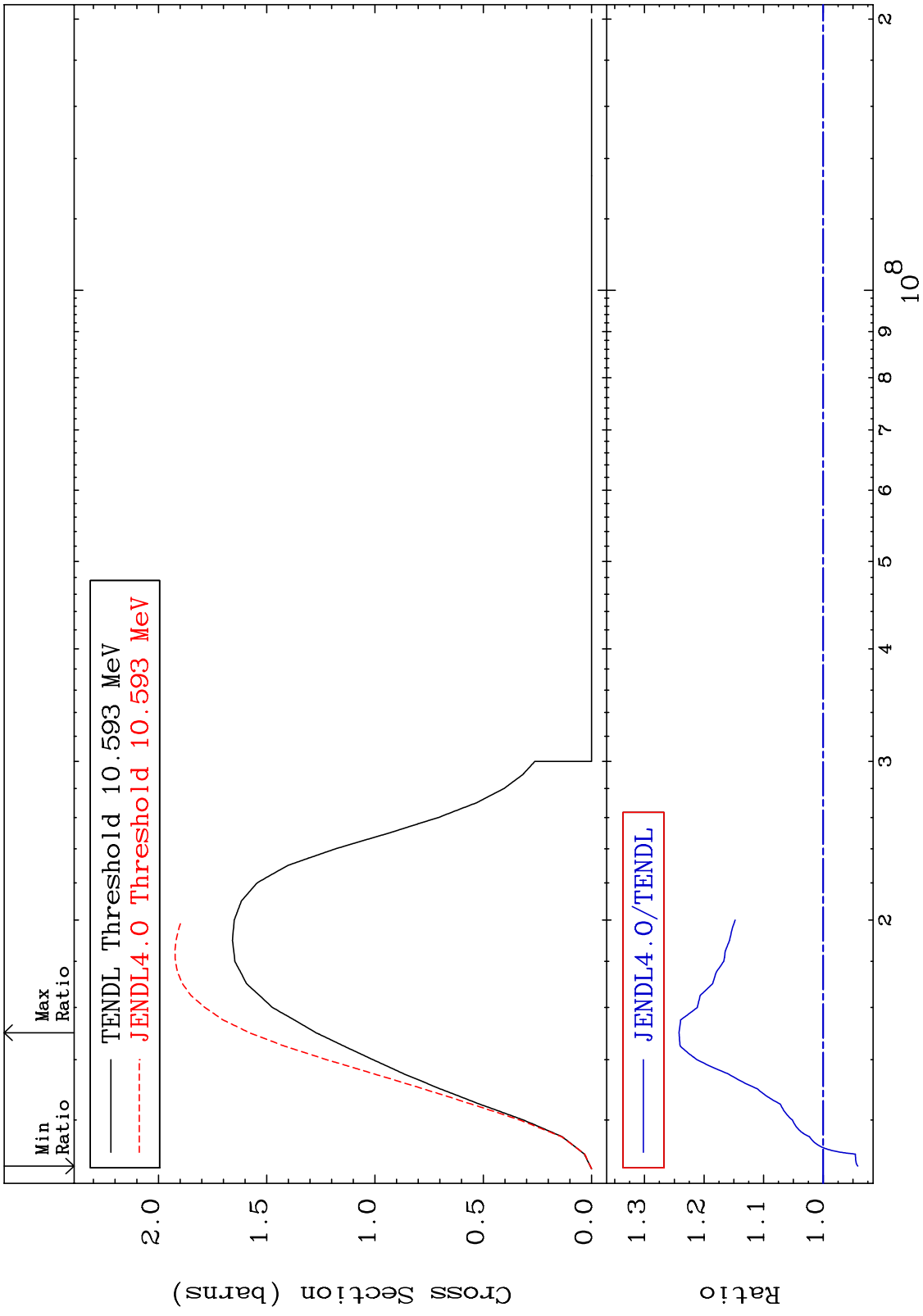
62-Sm-144
-70.09 To 161.7 %



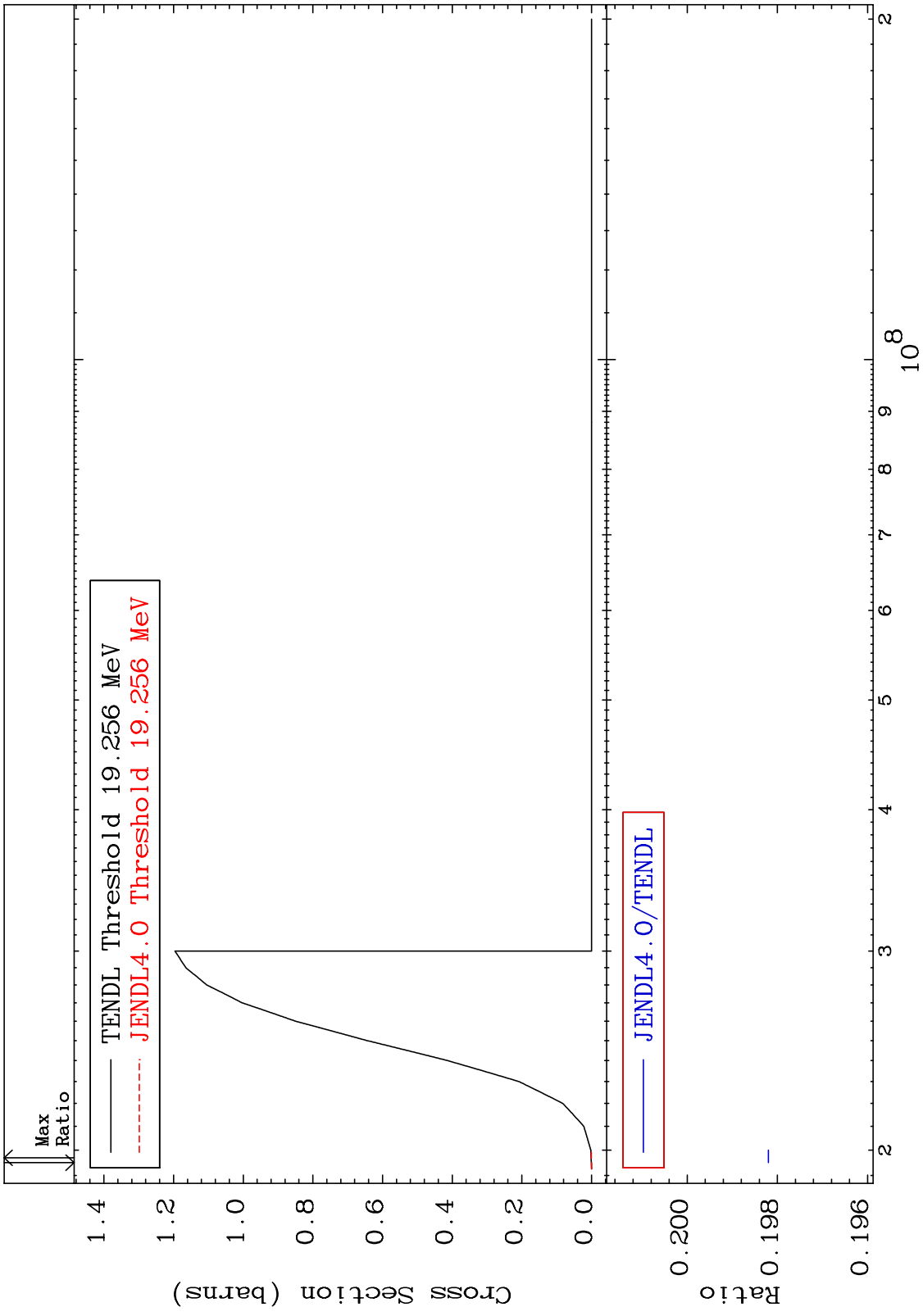
62-Sm-144

3

MAT 6225 (n,2n) Cross Section 62-Sm-144 -5.820 To 24.20 %

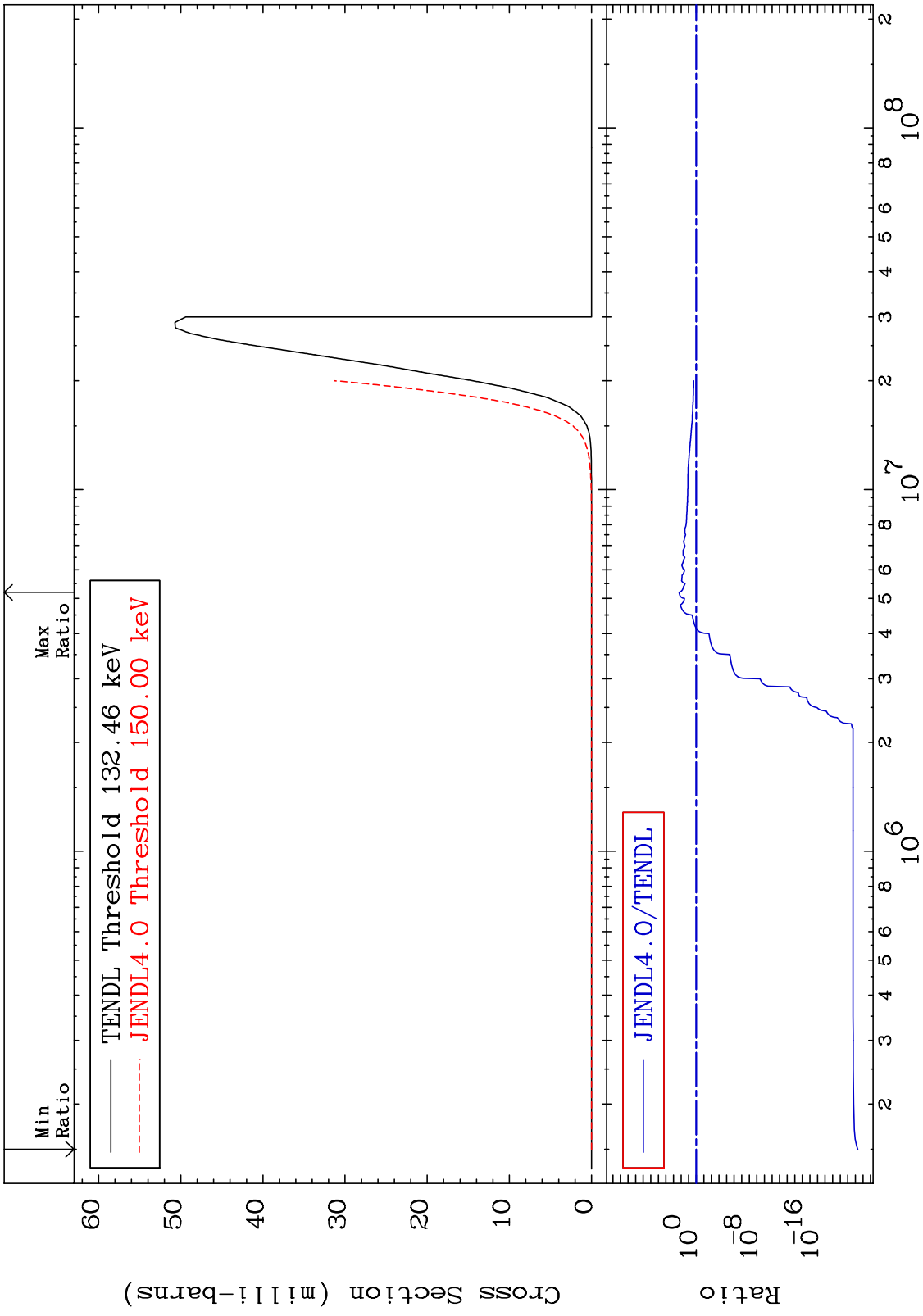


MAT 6225 (n,3n) Cross Section 62-Sm-144 -80.18 To -80.18%

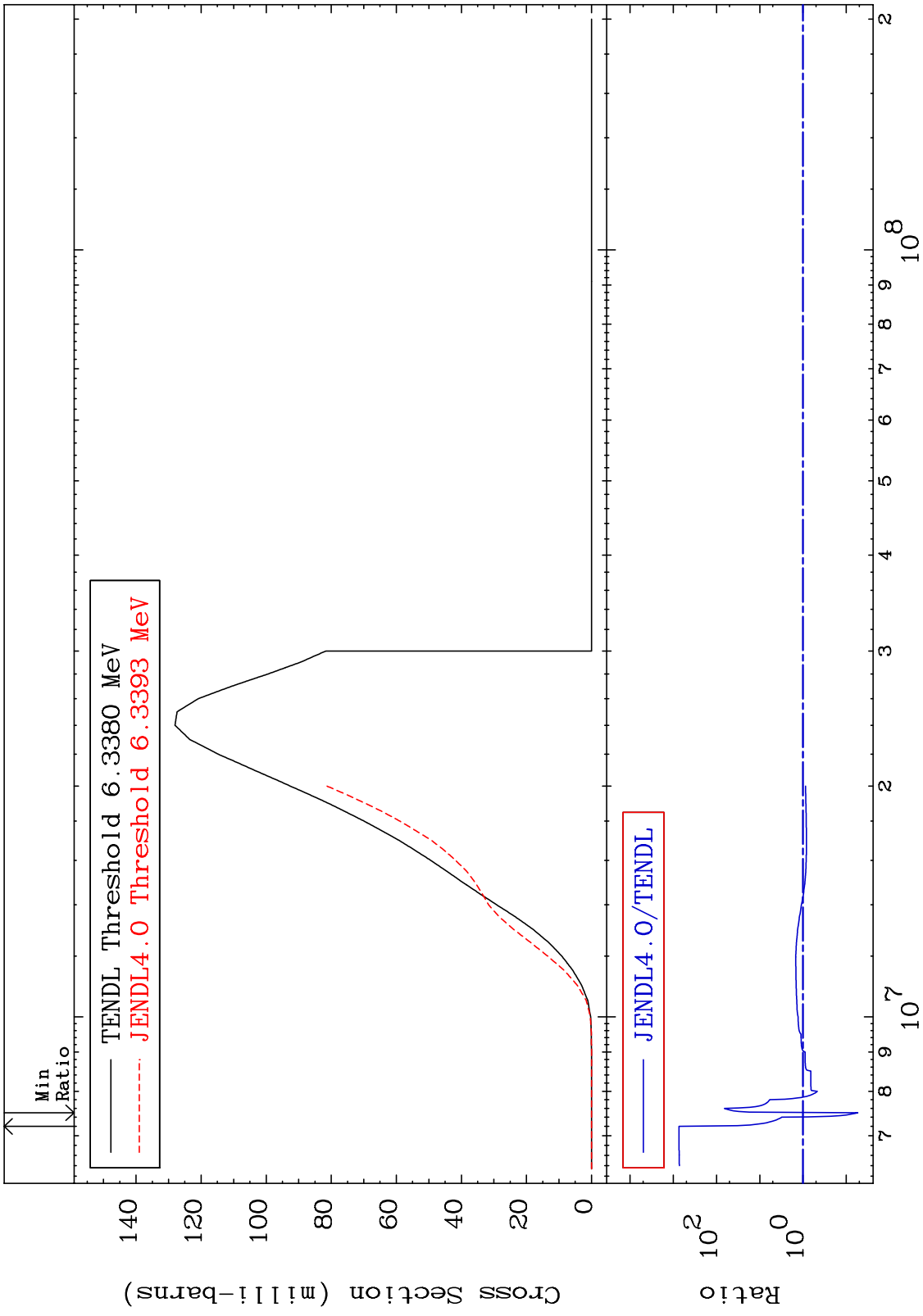


5 Incident Energy (eV) 62-Sm-144

MAT 6225 $(n, n') \alpha$ 62-Sm-144
 -100.0 To 9999. %
 Cross Section

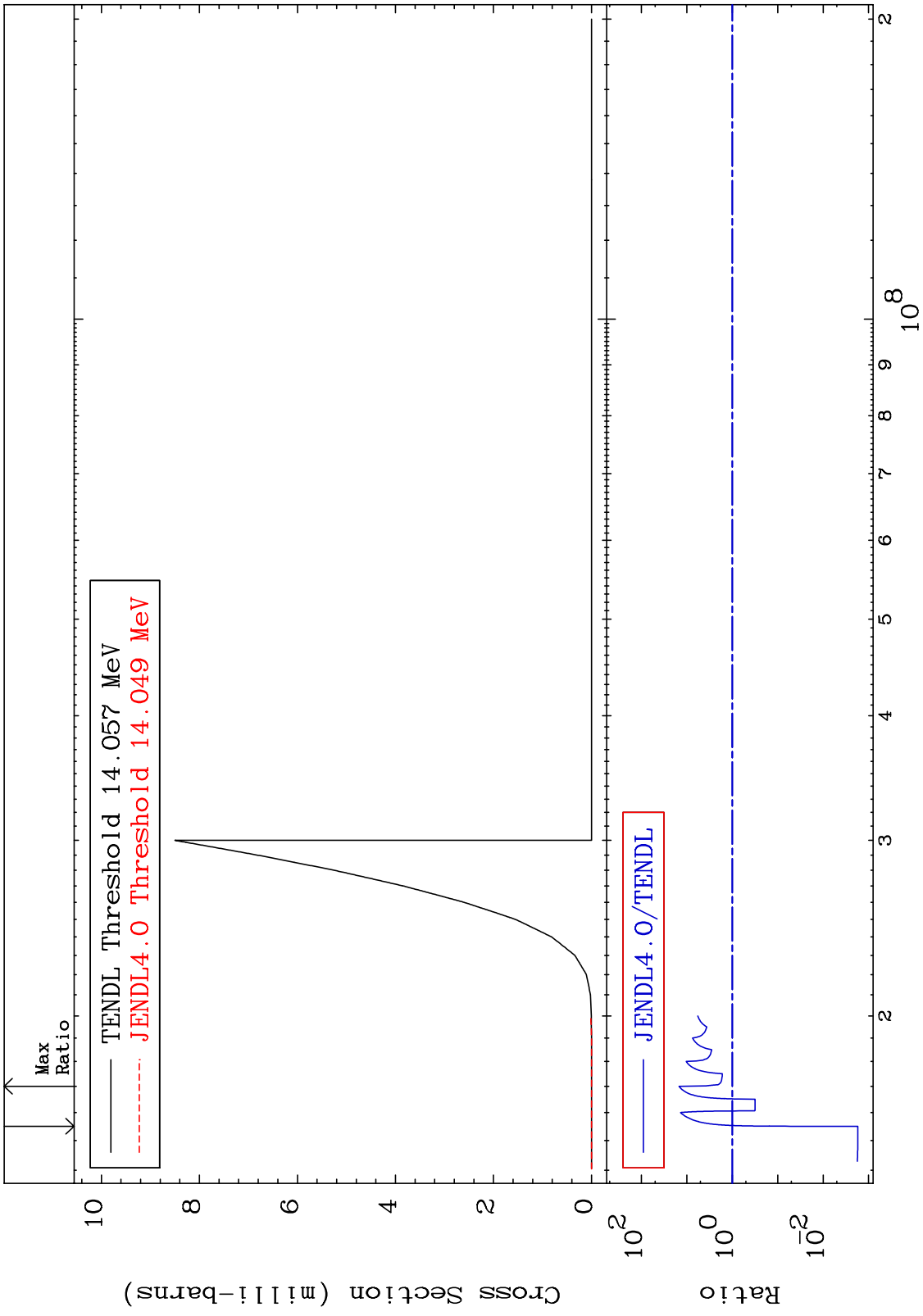


MAT 6225 (n,n') p 62-Sm-144
 Cross Section -94.60 To 9999. %

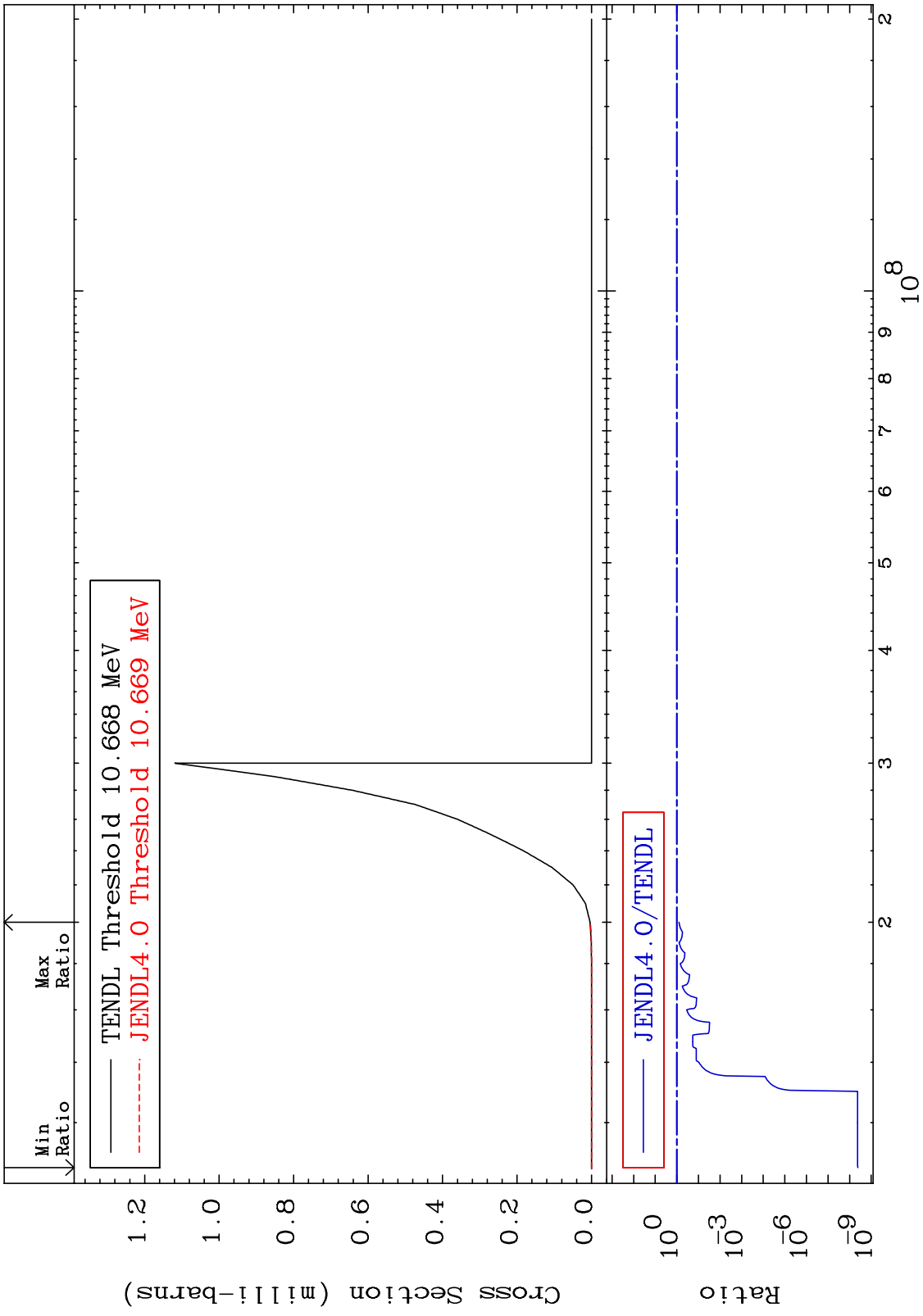


7 62-Sm-144

MAT 6225 (n, n') d 62-Sm-144
 Cross Section -99.83 To 1383. %



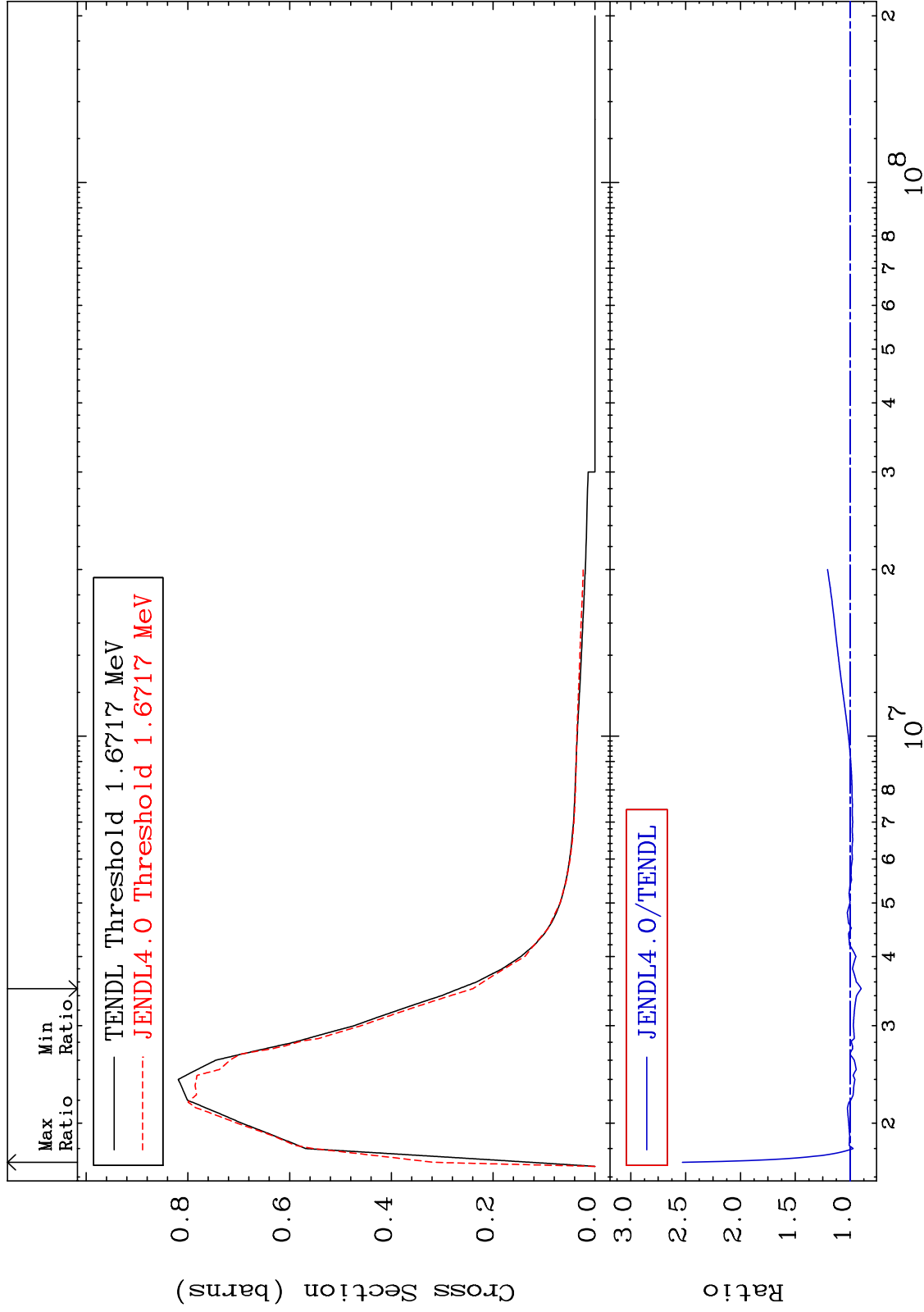
MAT 6225 (n,2n) p 62-Sm-144 -100.0 To -21.01% Cross Section



MAT 6225

MT= 51 (n,n') Level
Cross Section

62-Sm-144
-10.17 To 152.9 %

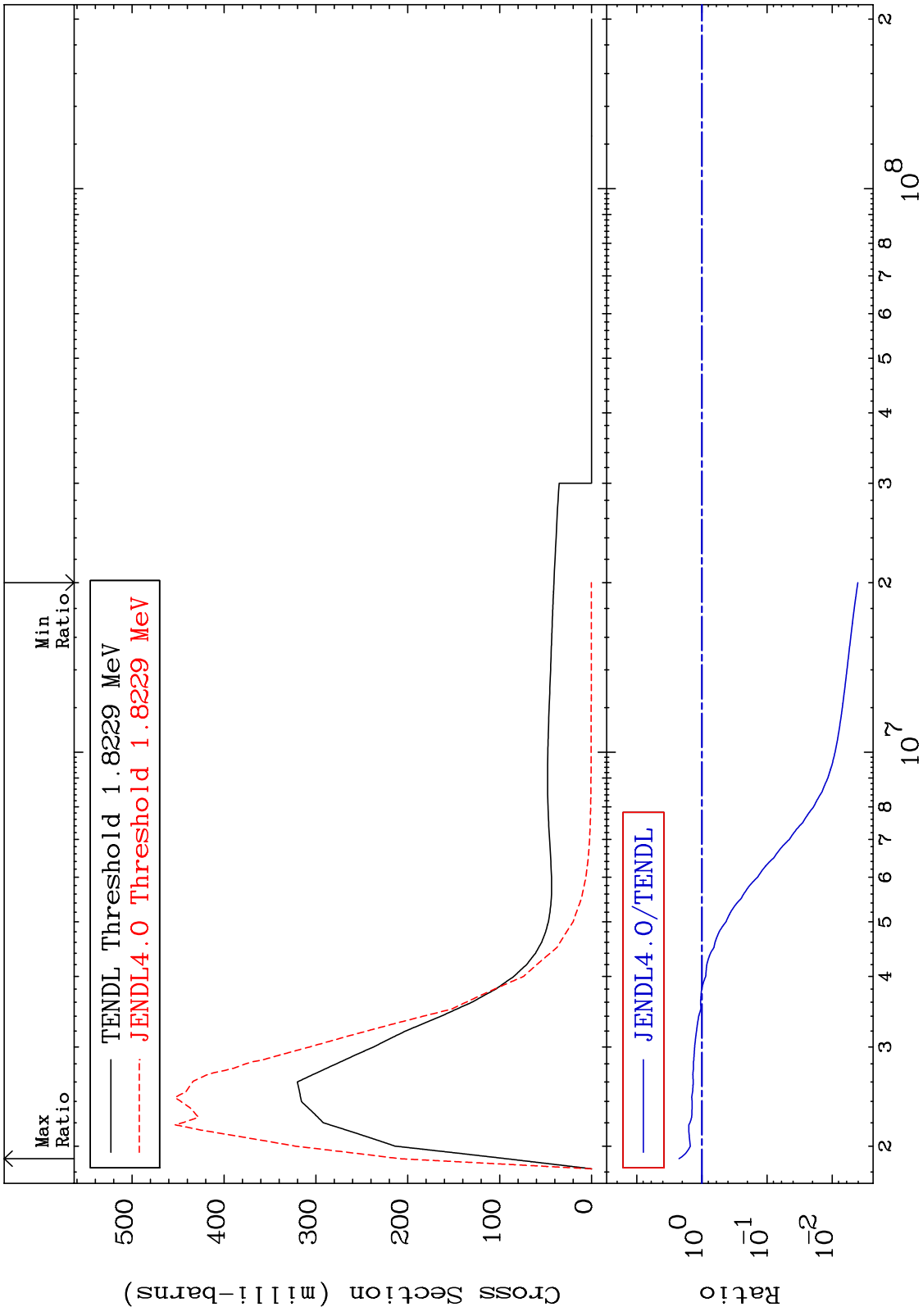


10

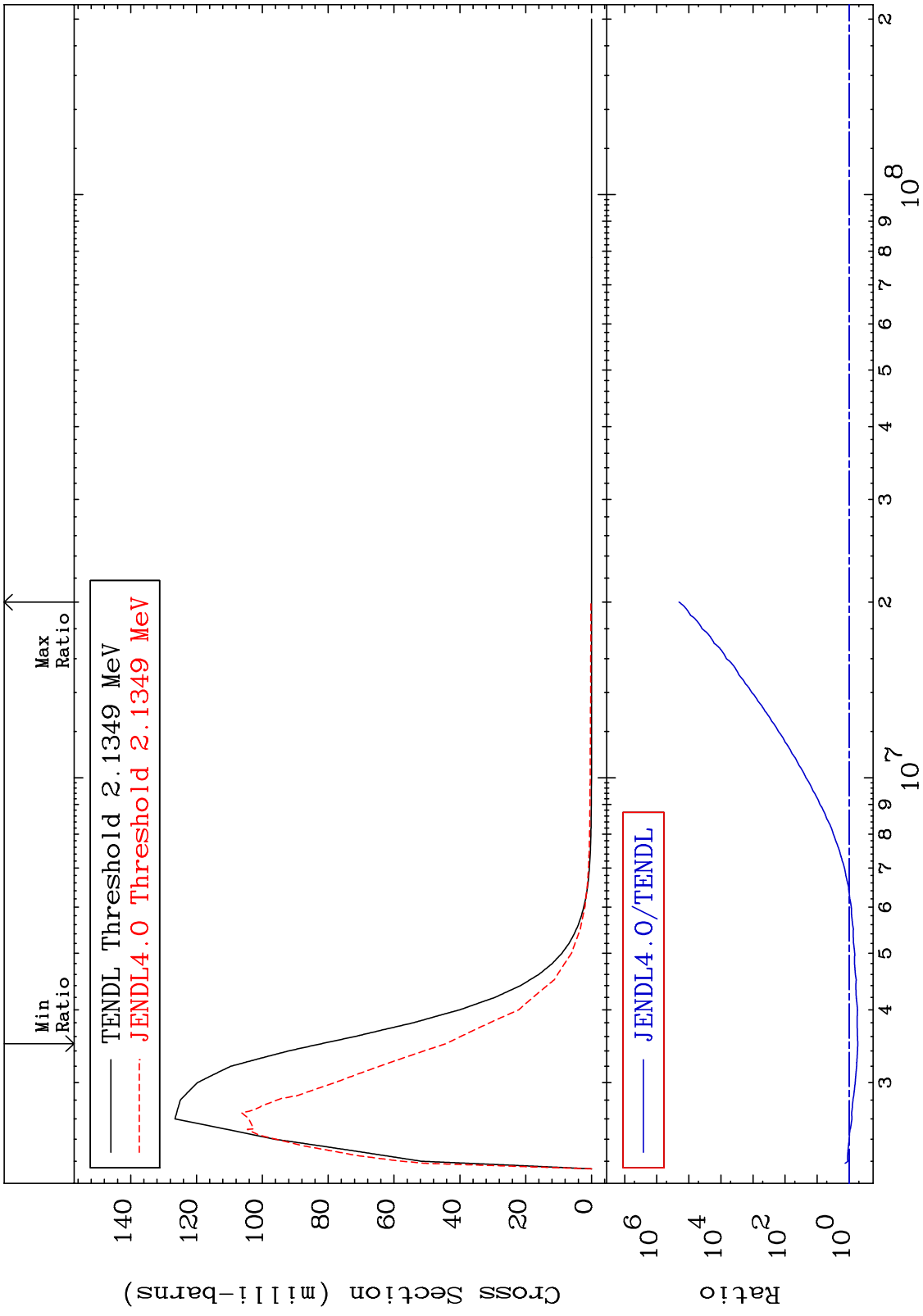
Incident Energy (eV)

62-Sm-144

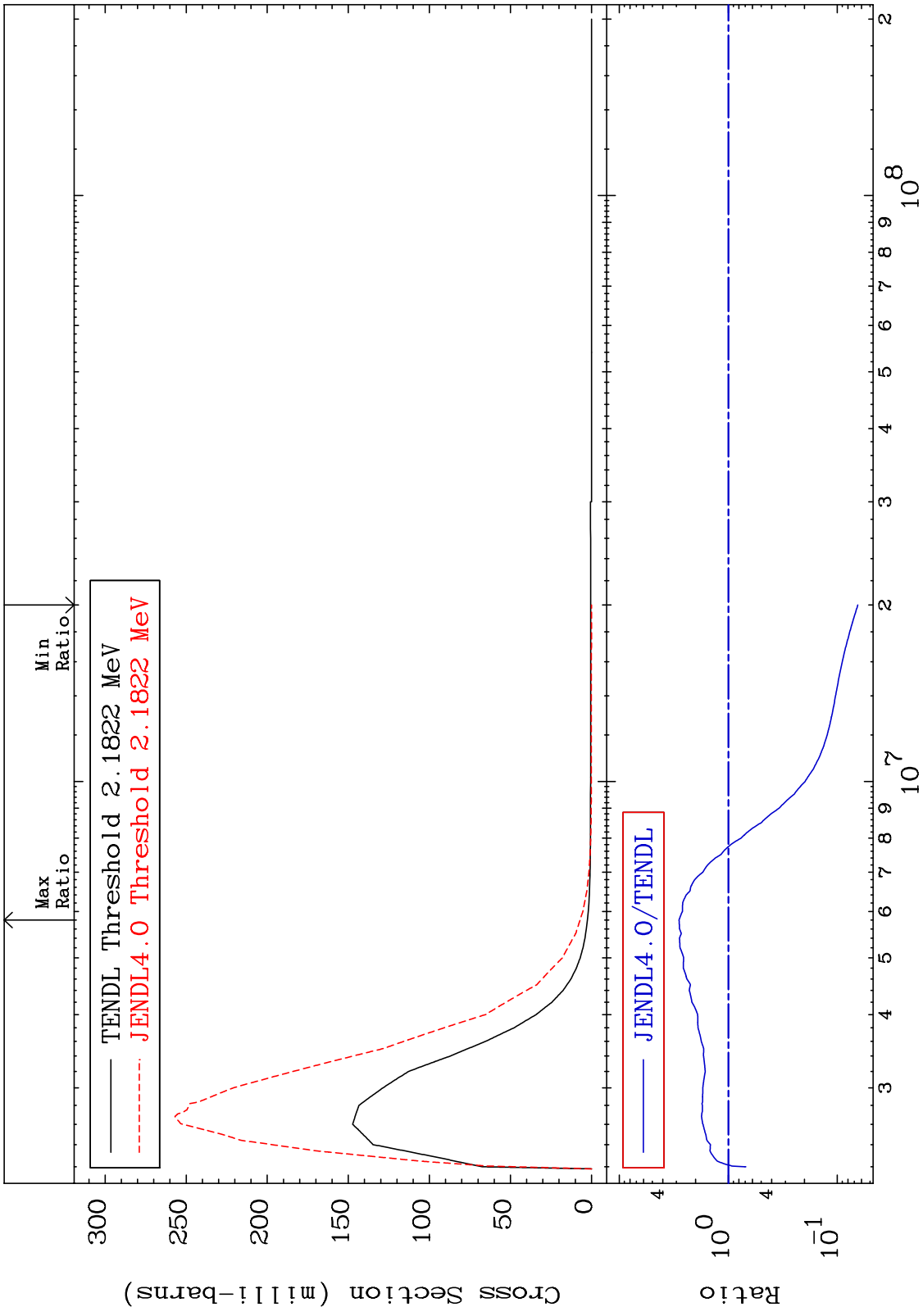
MAT 6225 MT= 52 (n,n') Level Cross Section 62-Sm-144 -99.60 To 124.4 %



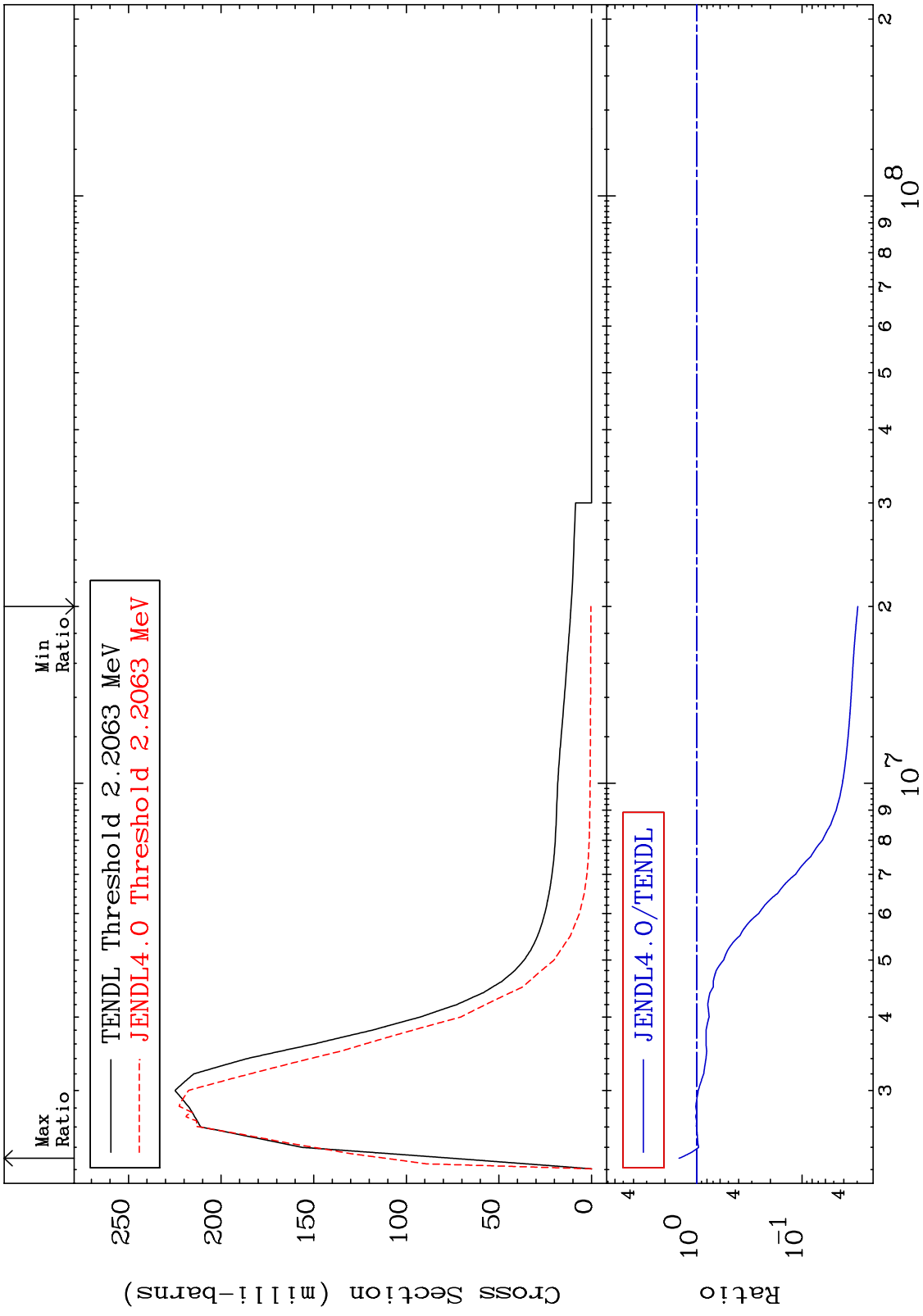
MAT 6225 MT= 53 (n,n') Level Cross Section 62-Sm-144
 -46.10 To 9999. %



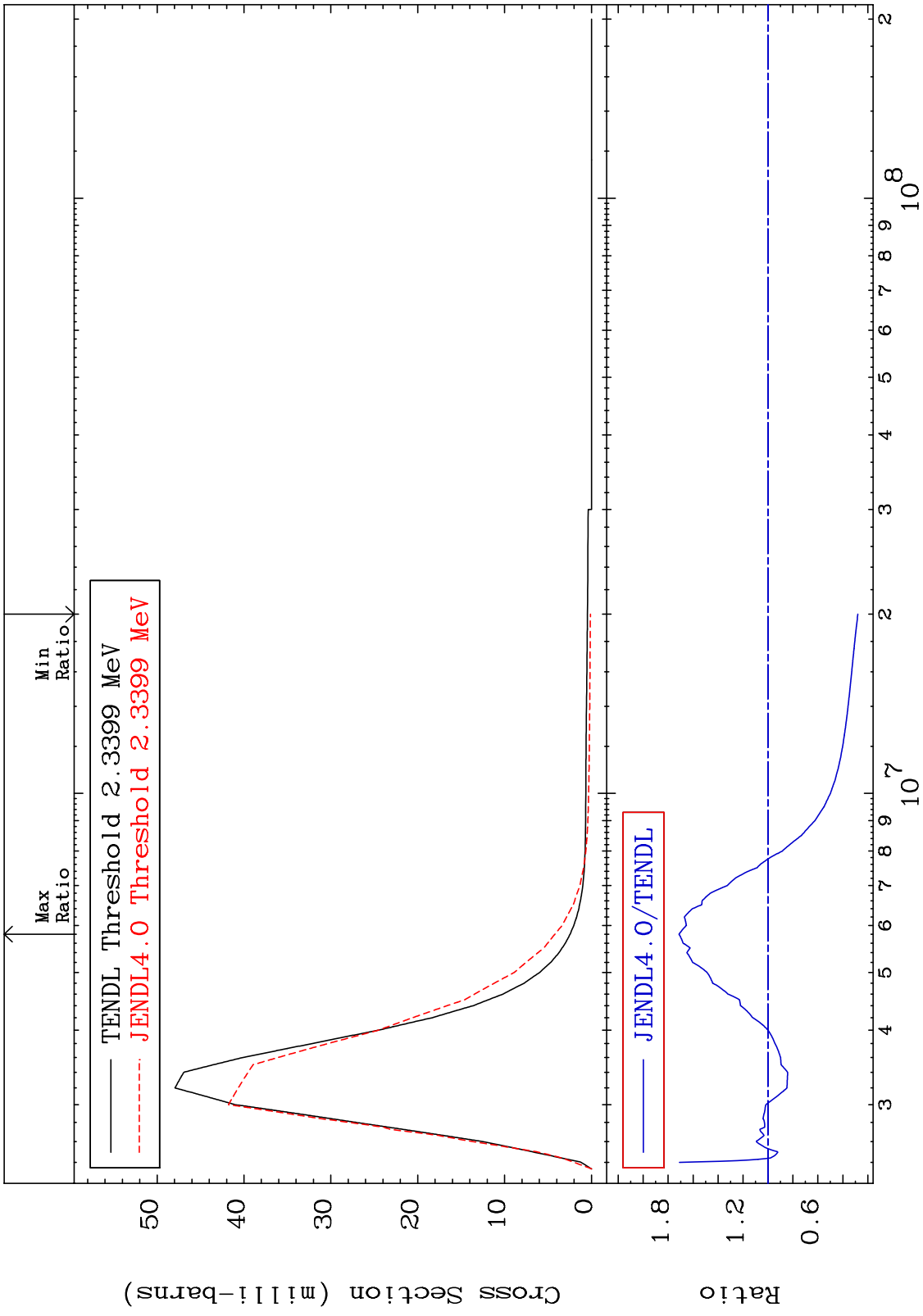
MAT 6225 MT= 54 (n,n') Level Cross Section 62-Sm-144 -93.52 To 183.5 %



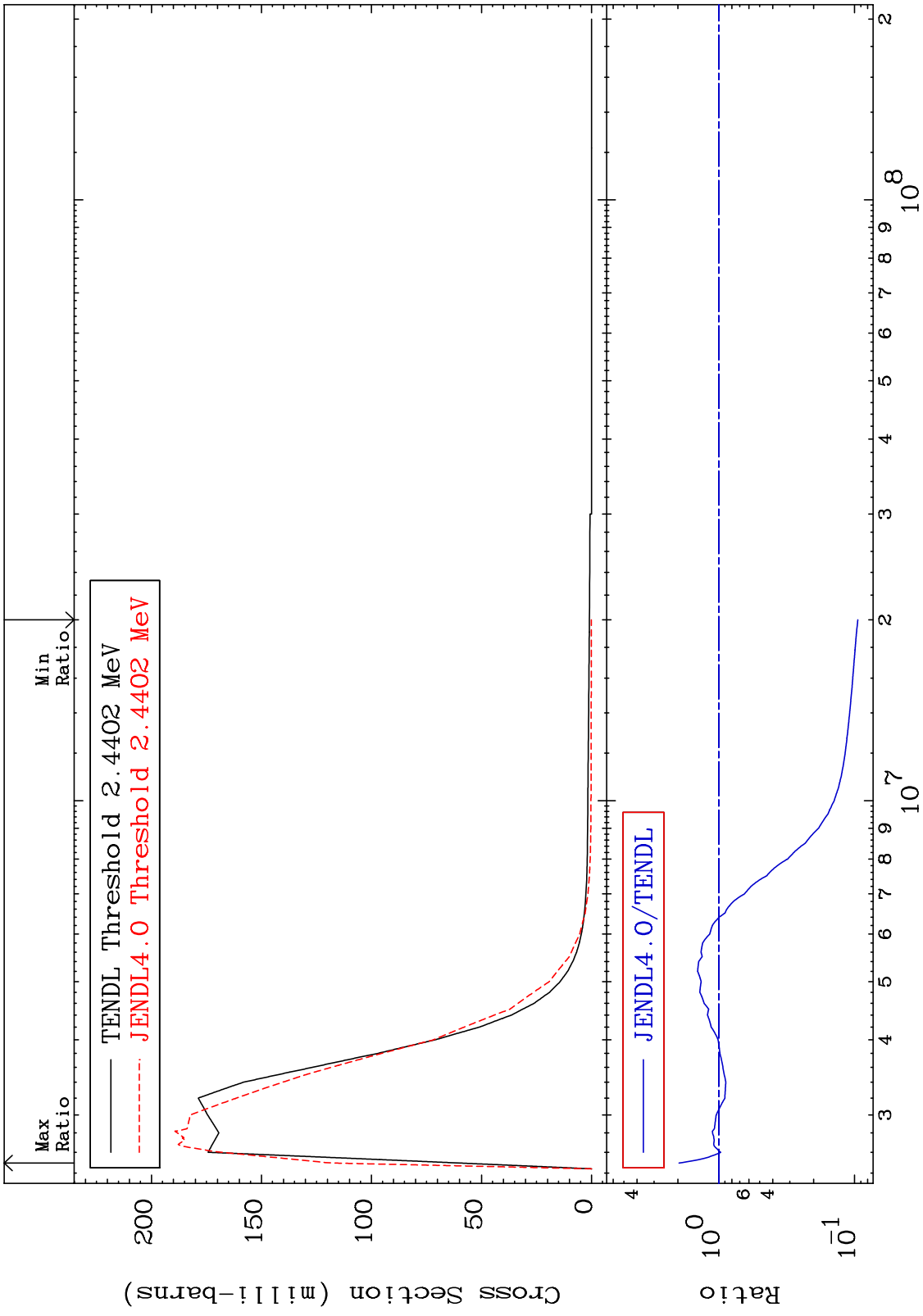
MAT 6225 MT= 55 (n,n') Level Cross Section 62-Sm-144 -97.05 To 47.37 %



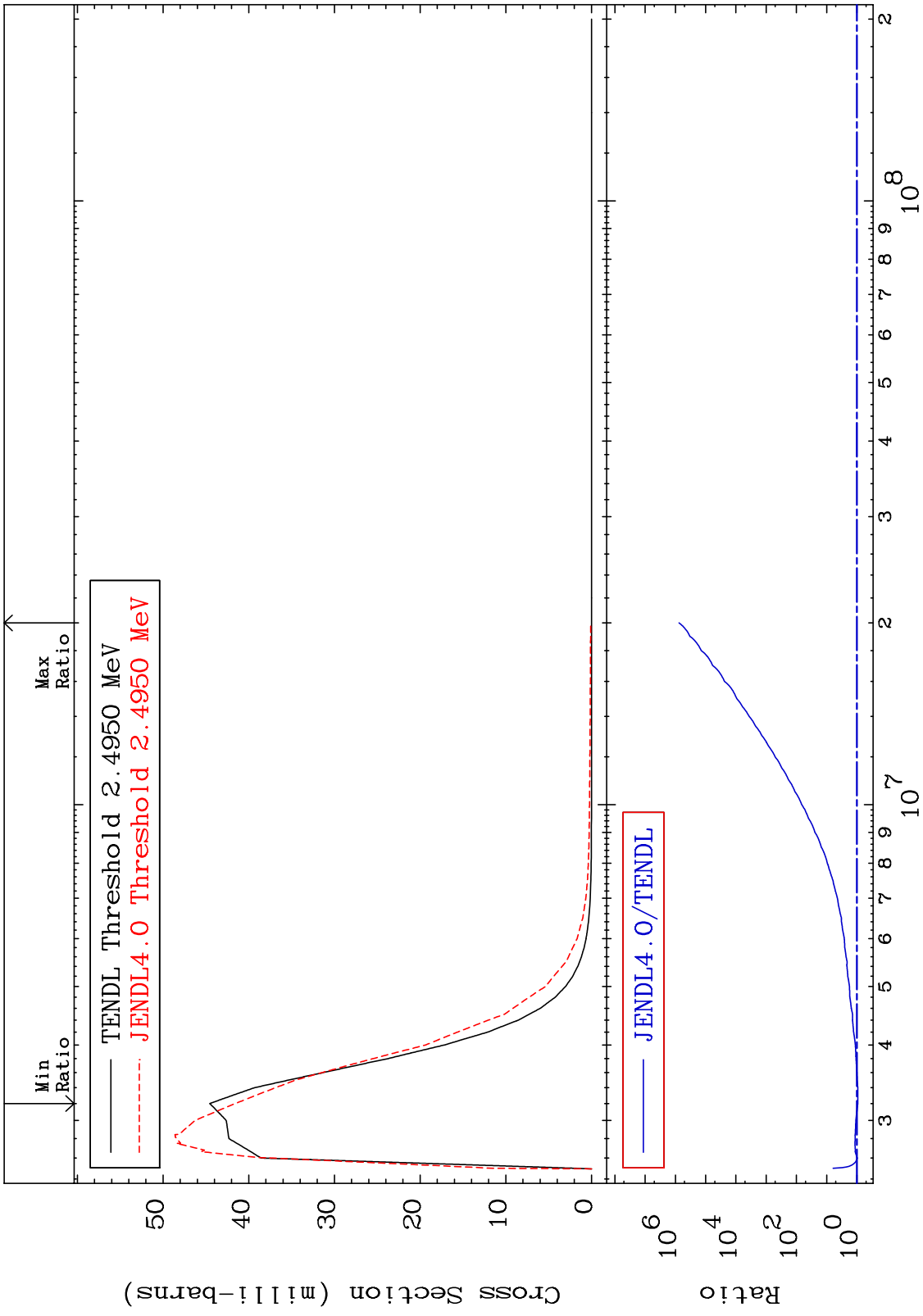
MAT 6225 MT= 56 (n,n') Level Cross Section 62-Sm-144 -72.03 To 71.27 %



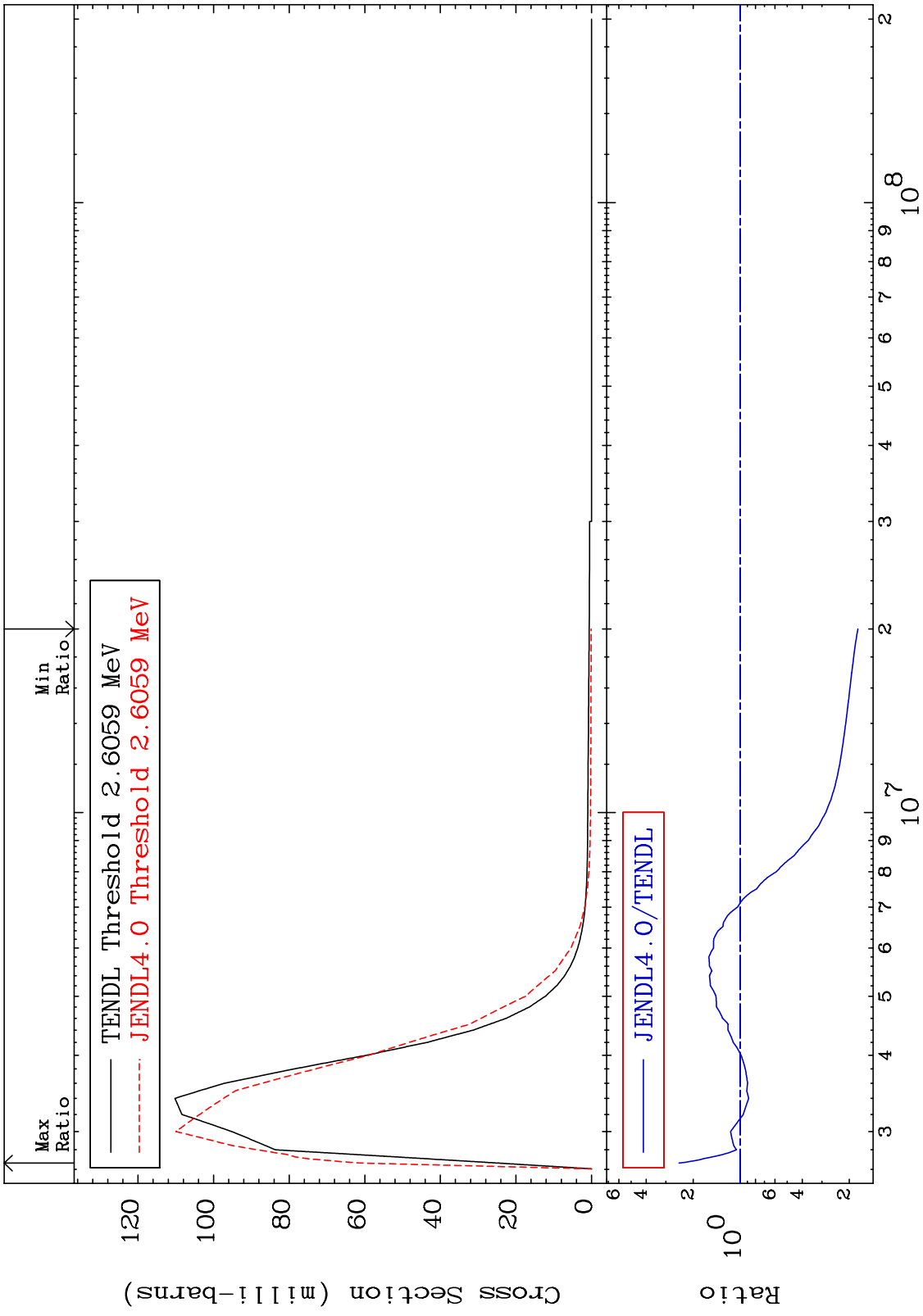
MAT 6225 MT= 57 (n,n') Level Cross Section 62-Sm-144 -90.54 To 96.11 %



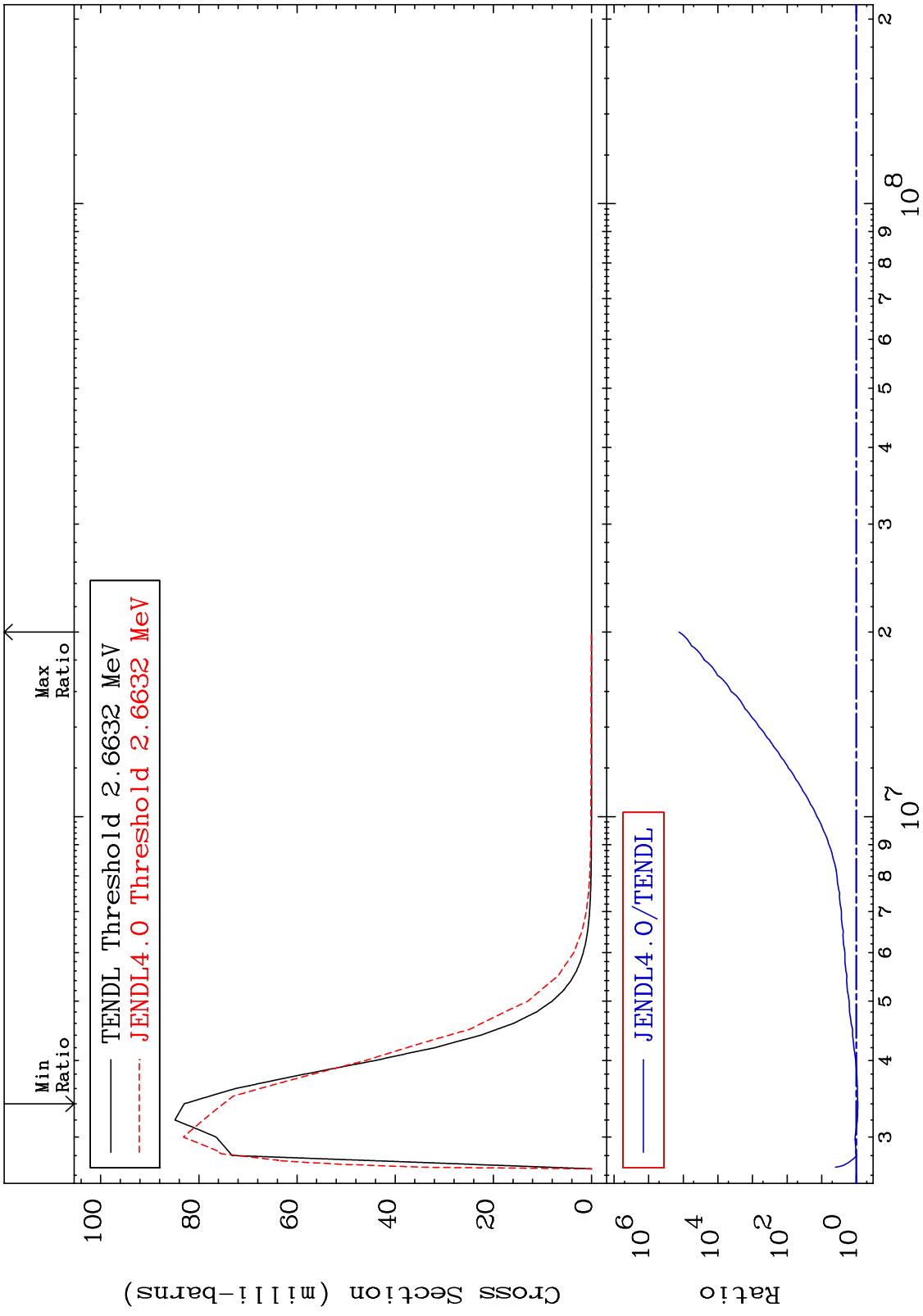
MAT 6225 MT= 58 (n,n') Level Cross Section 62-Sm-144
 -6.703 To 9999. %



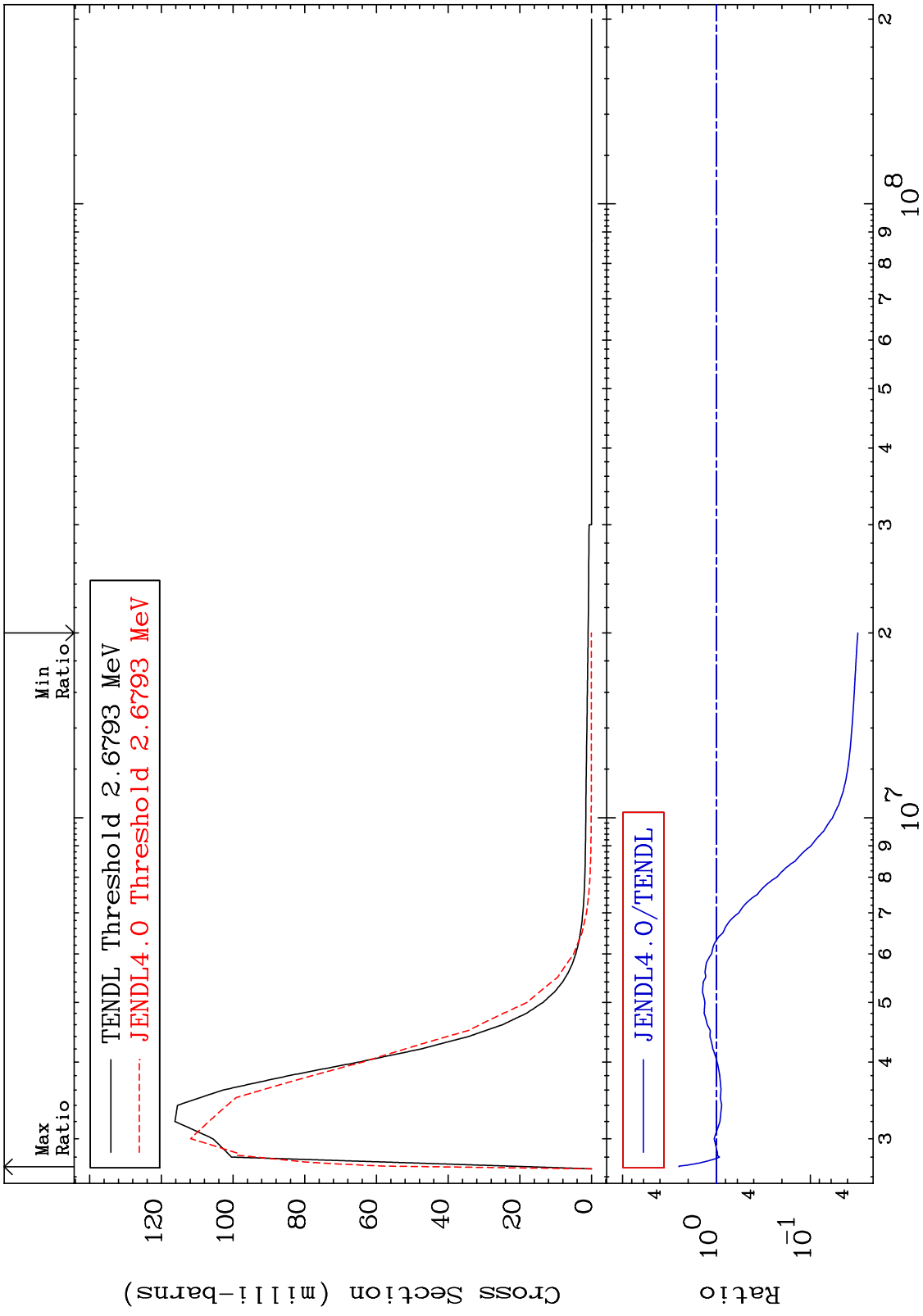
MAT 6225 MT= 59 (n,n') Level Cross Section 62-Sm-144 -82.36 To 146.7 %



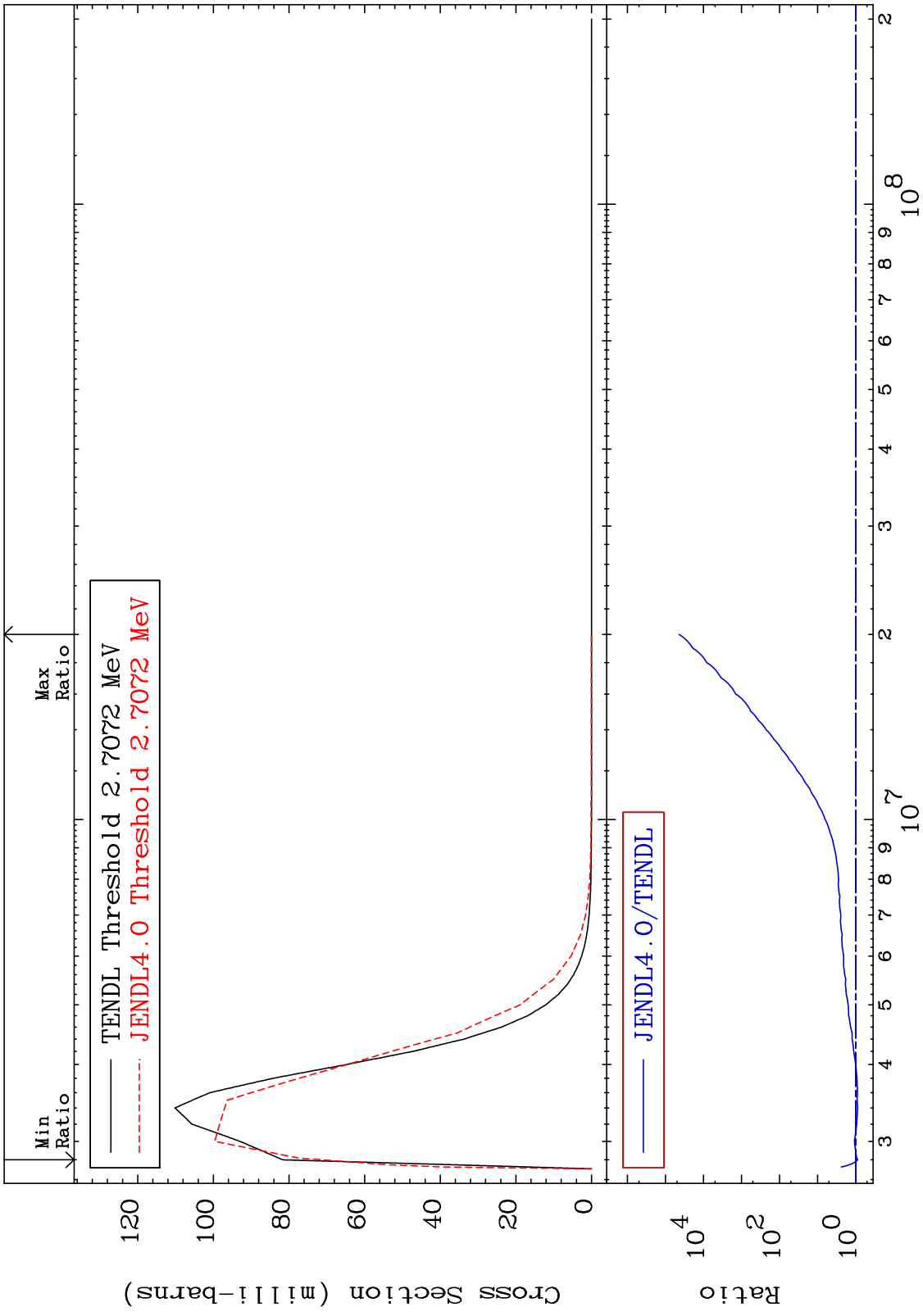
MAT 6225 MT= 60 (n,n') Level Cross Section 62-Sm-144
 -9.616 To 9999. %



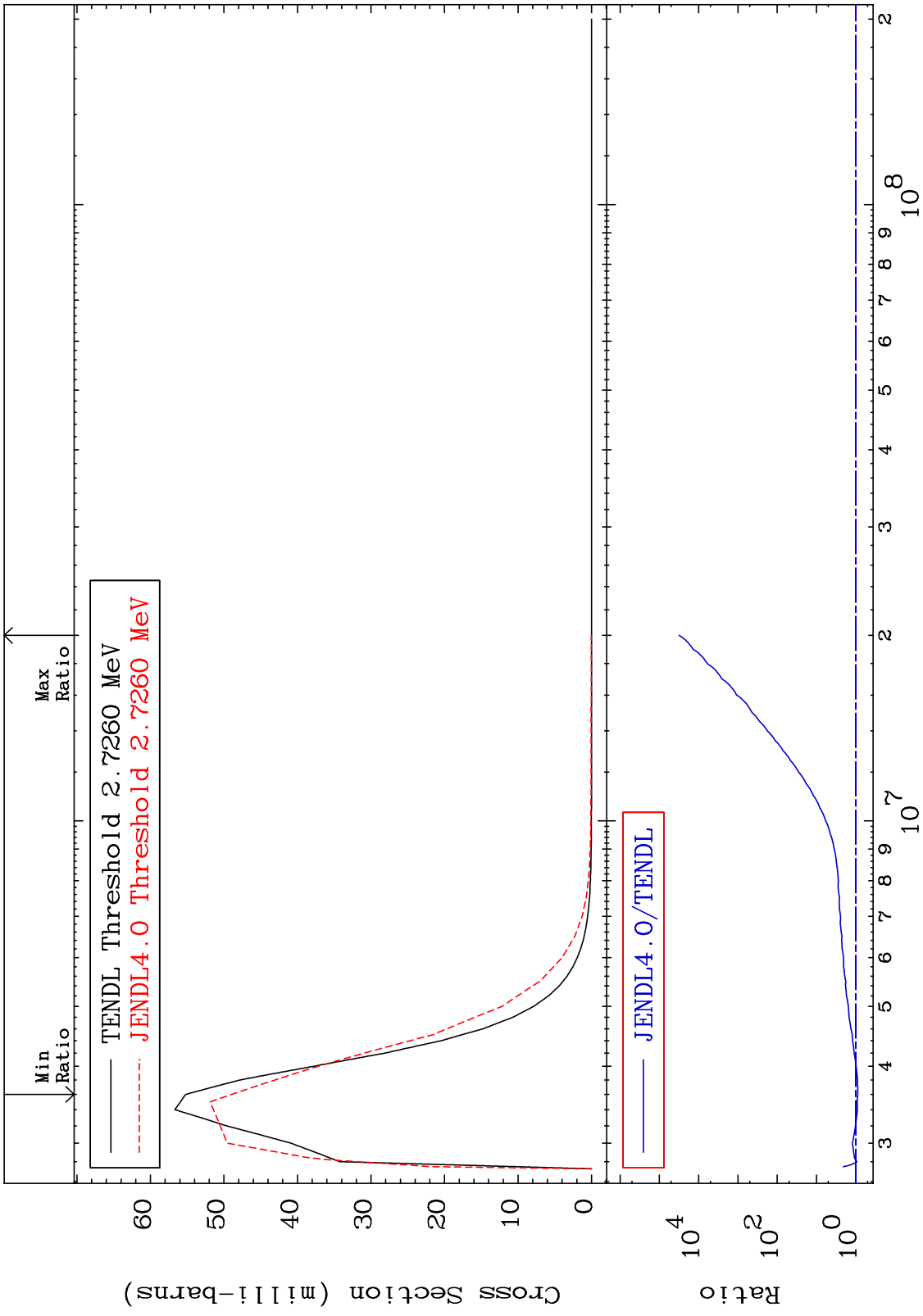
MAT 6225 MT= 61 (n,n') Level Cross Section 62-Sm-144 -96.89 To 150.5 %



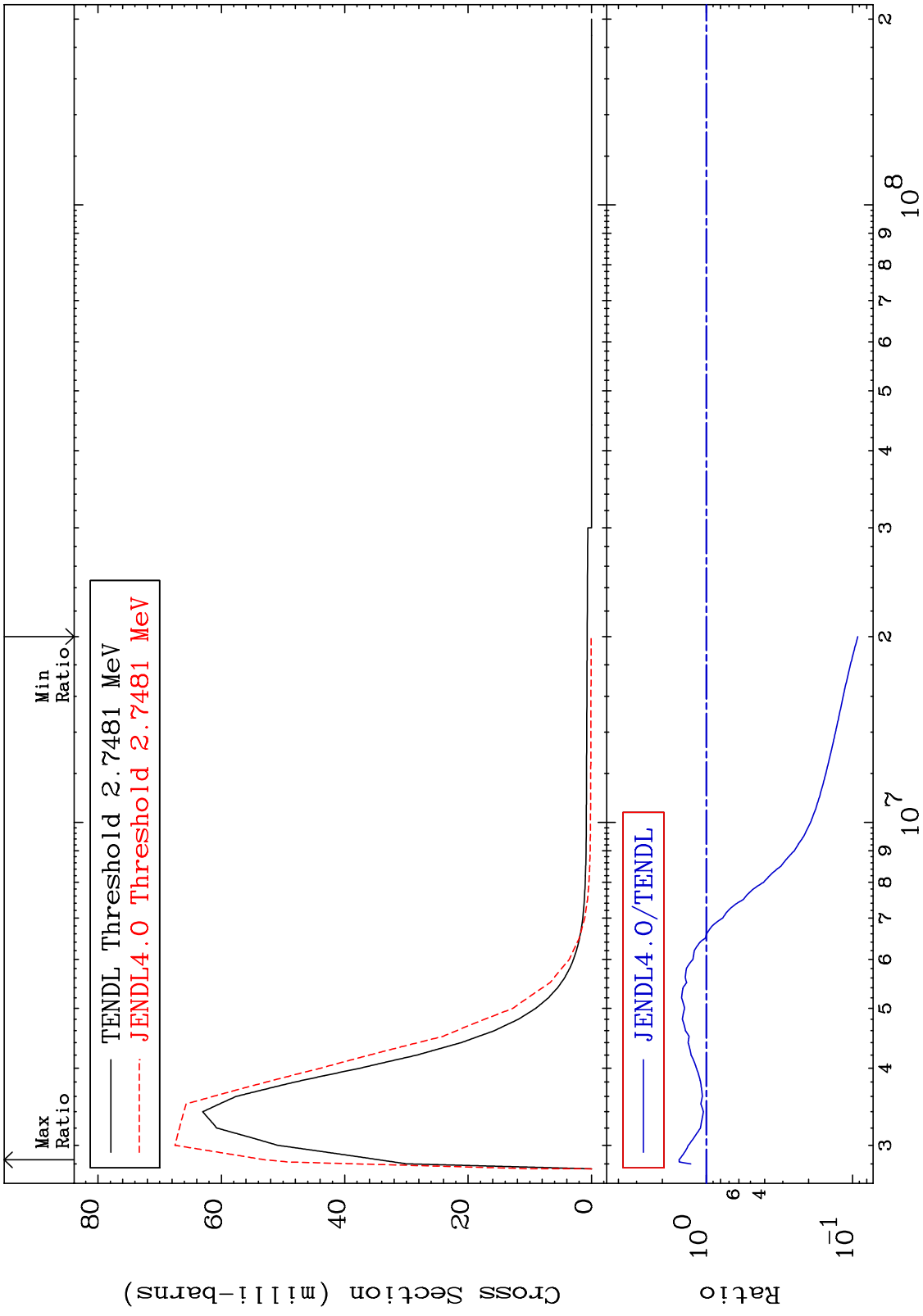
MAT 6225 MT= 62 (n,n') Level Cross Section 62-Sm-144 -12.91 To 9999. %



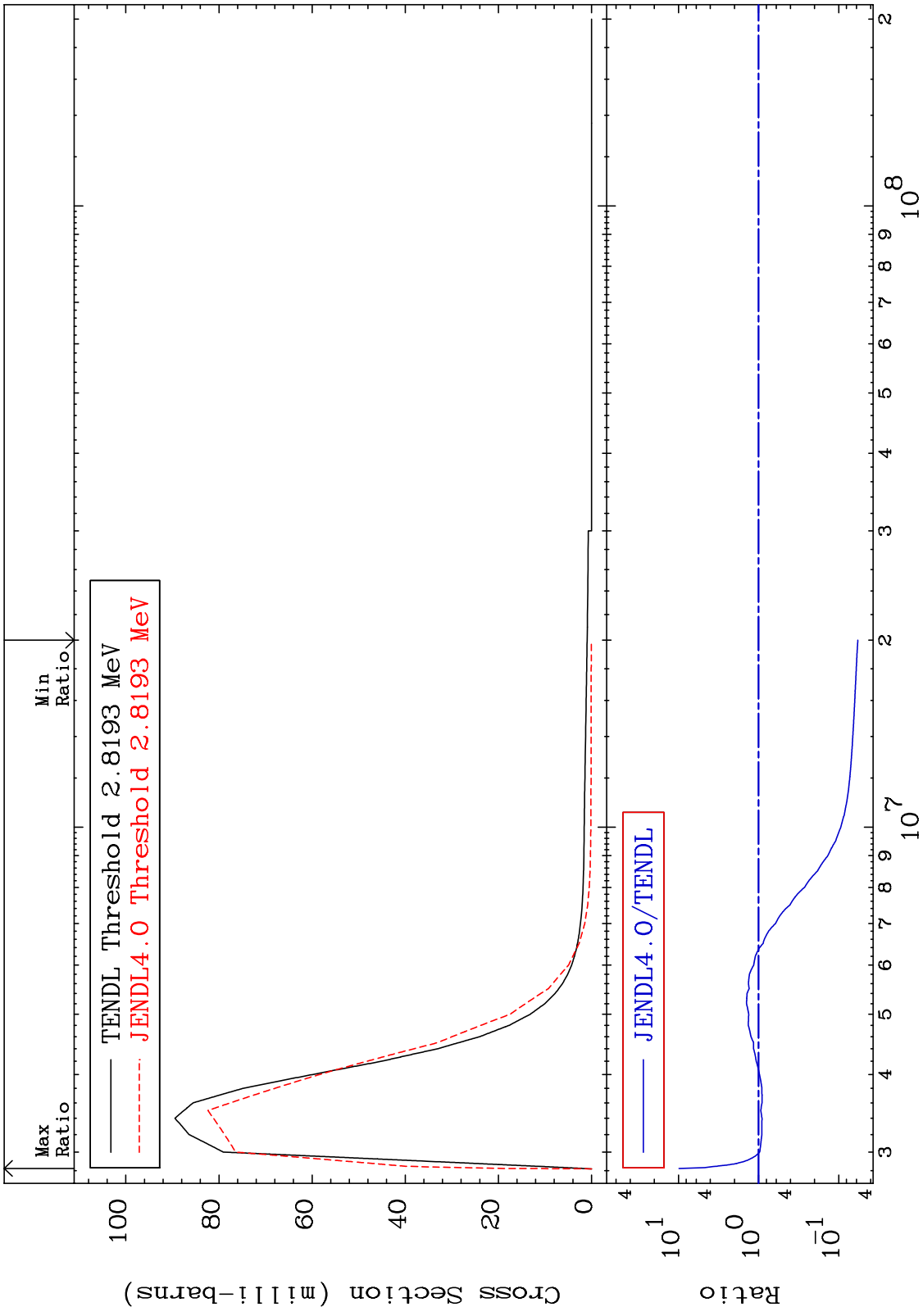
MAT 6225 MT= 63 (n,n') Level Cross Section 62-Sm-144 -11.34 To 9999. %



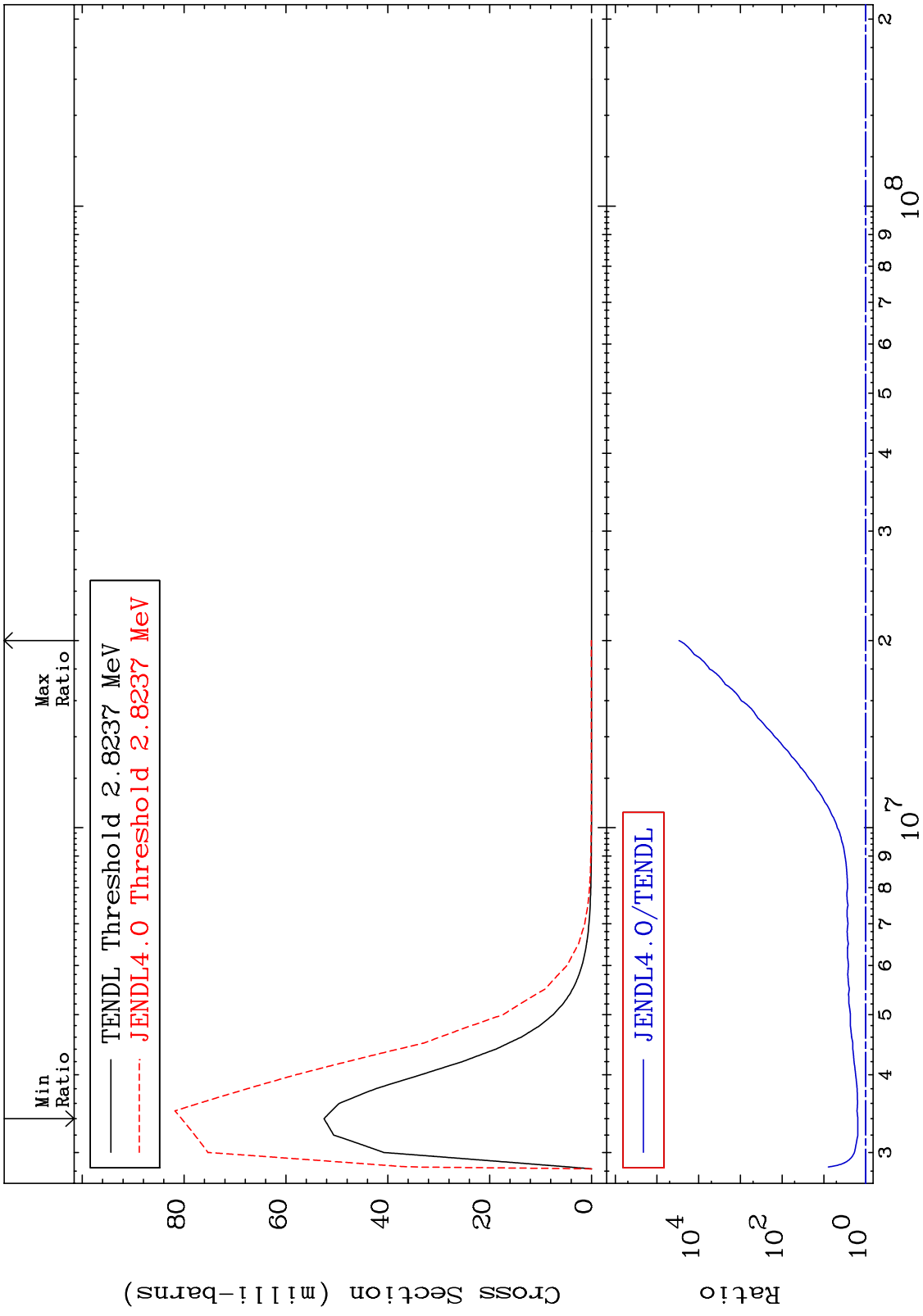
MAT 6225 MT= 64 (n,n') Level Cross Section 62-Sm-144 -90.79 To 53.84 %



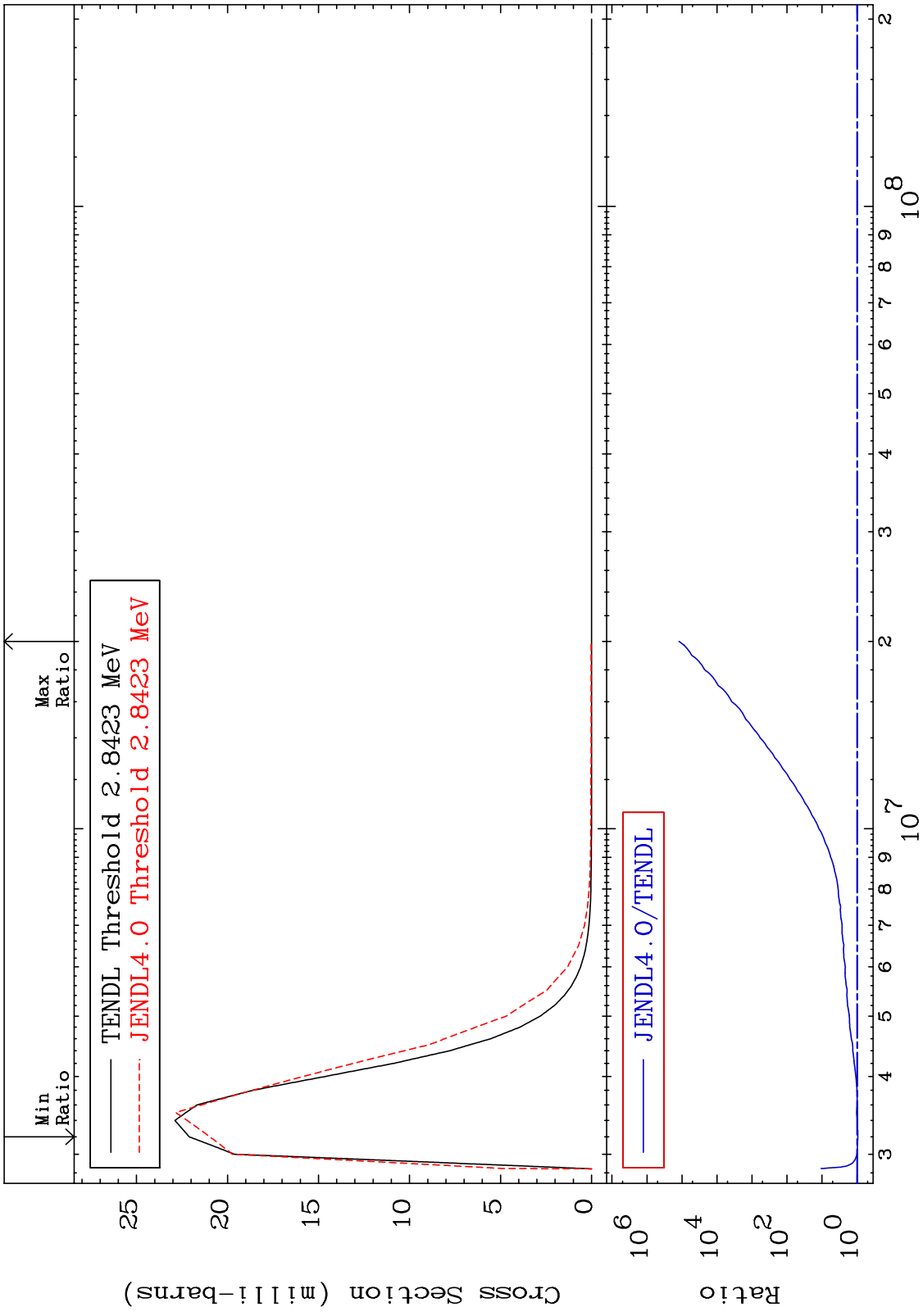
MAT 6225 MT= 65 (n,n') Level Cross Section 62-Sm-144 -94.23 To 883.0 %



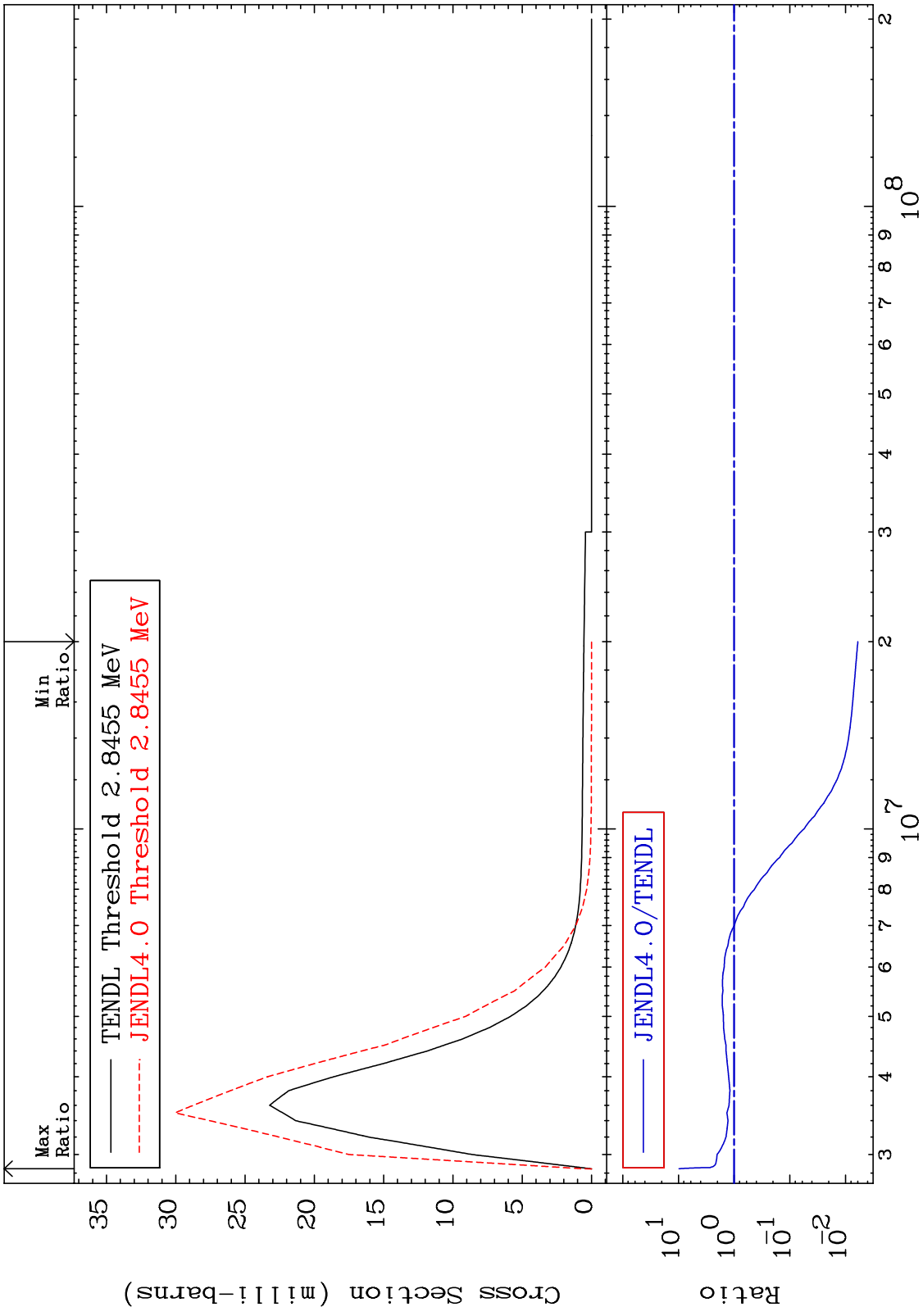
MAT 6225 MT= 66 (n,n') Level Cross Section 62-Sm-144
 53.21 To 9999. %



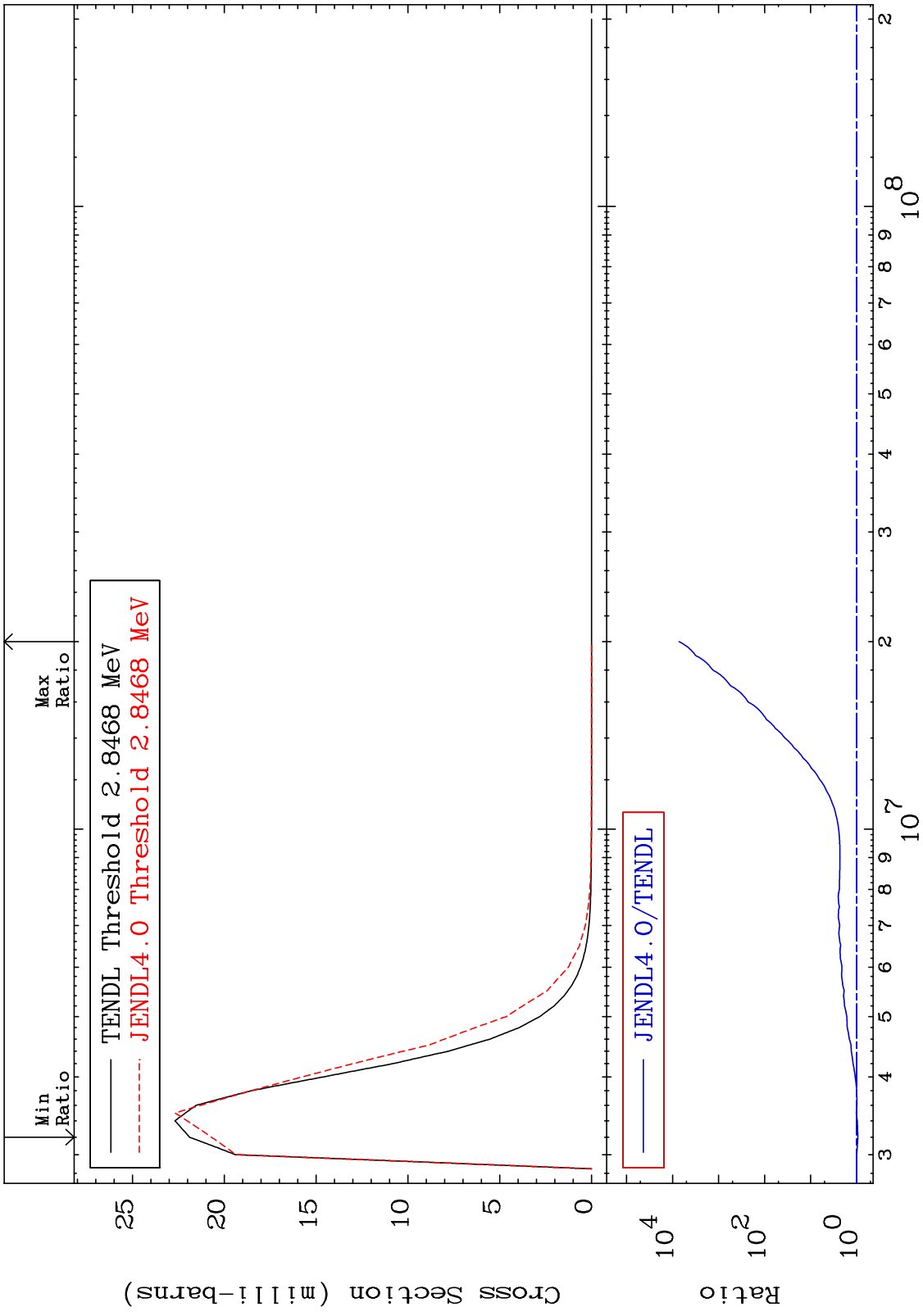
MAT 6225 MT= 67 (n,n') Level Cross Section 62-Sm-144
 -5.149 To 9999. %



MAT 6225 MT= 68 (n,n') Level Cross Section 62-Sm-144 -99.40 To 875.5 %



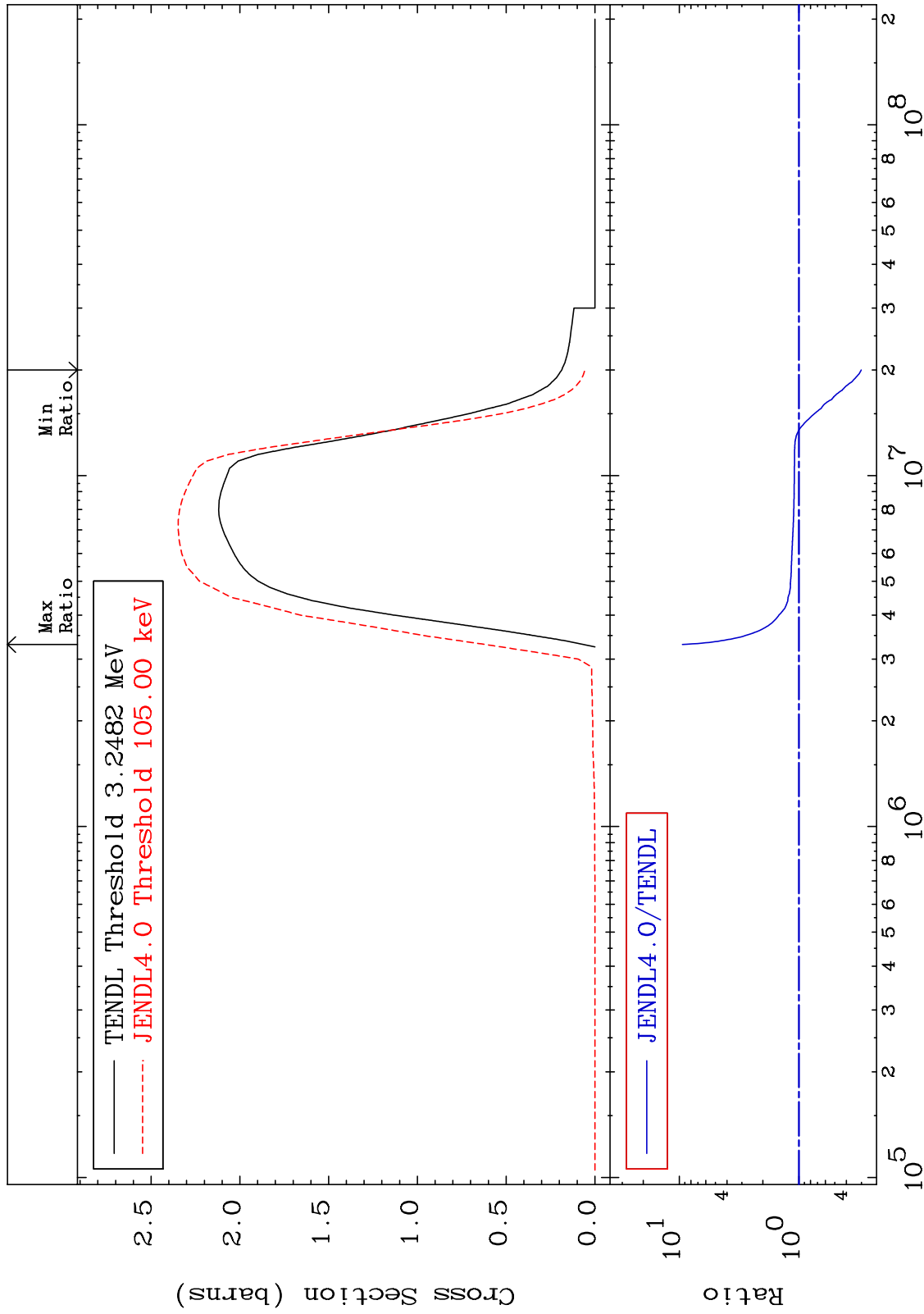
MAT 6225 MT= 69 (n,n') Level Cross Section 62-Sm-144
 -5.487 To 9999. %



MAT 6225

(n, n') Continuum
Cross Section

62-Sm-144
-69.93 To 841.6 %



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Incident Energy (eV)

62-Sm-144

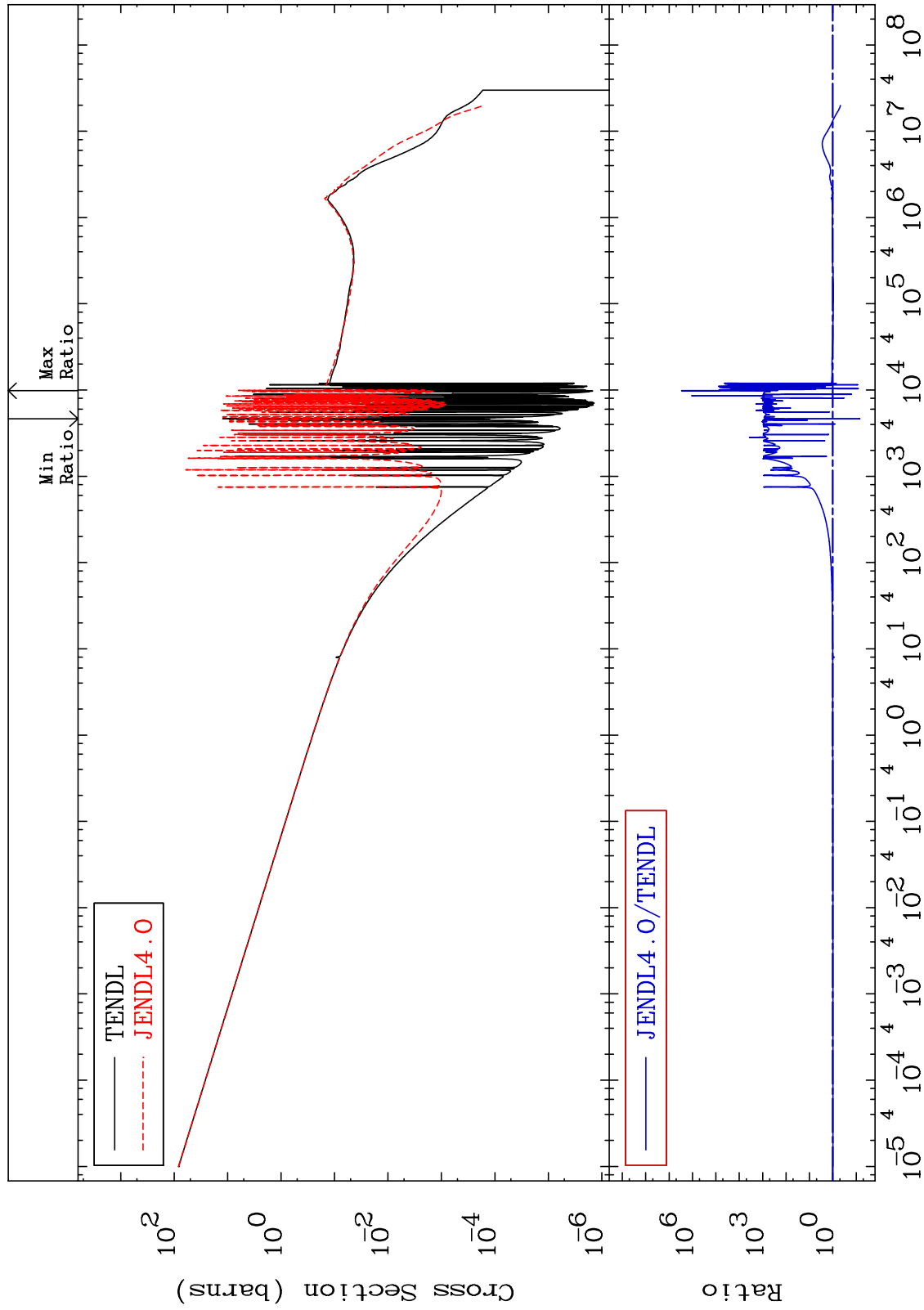
MAT 6225

(n, γ)

62-Sm-144

Cross Section

-92.97 To 9999. %



MAT 6225

(n,p)

62-Sm-144

-91.09 To 9999. %

Cross Section

Max Ratio

Min Ratio

TENDL Threshold 12.000 keV
JENDL4.0 Threshold 10.000 keV

Cross Section (milli-barns)

JENDL4.0/TENDL

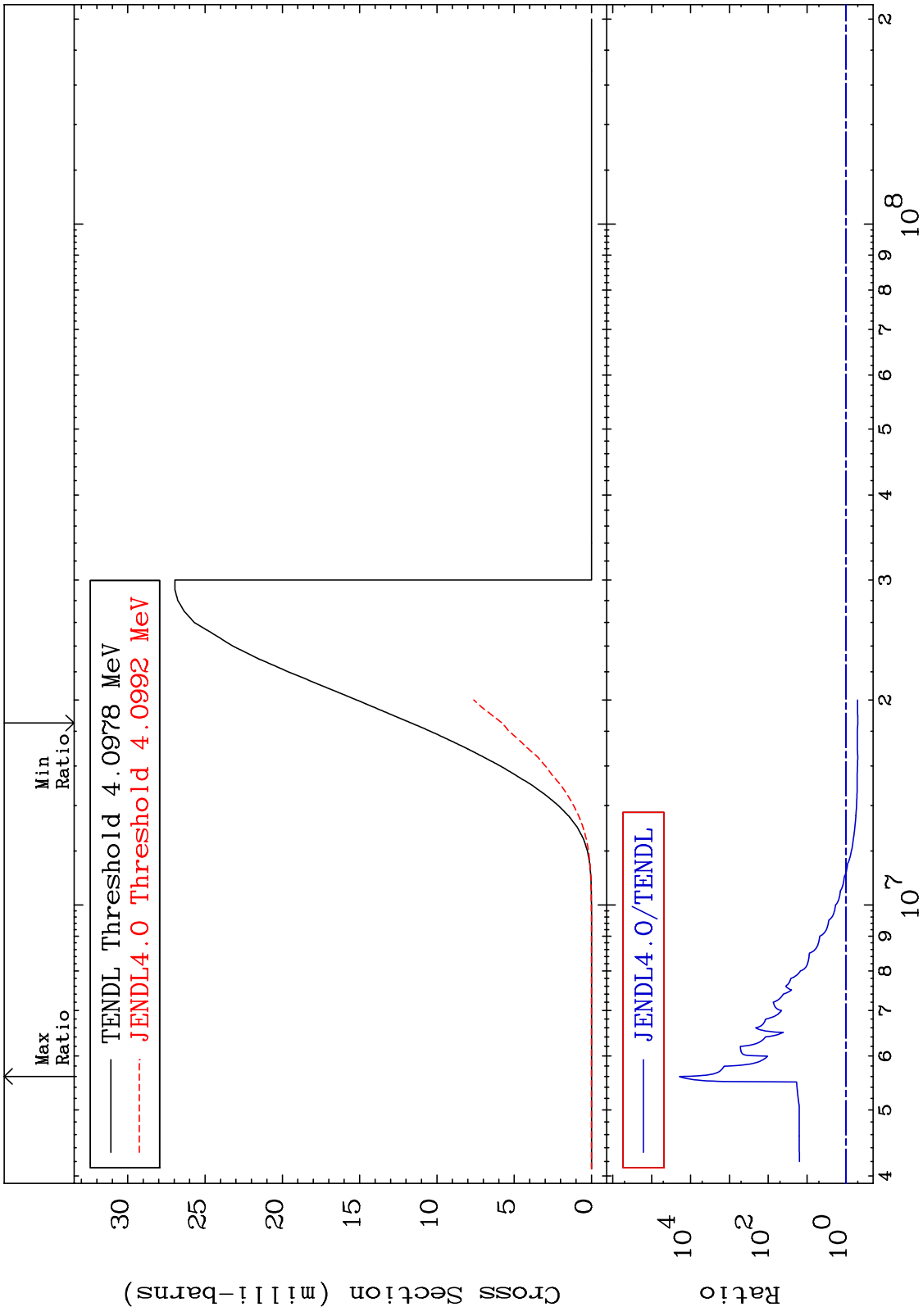
Ratio

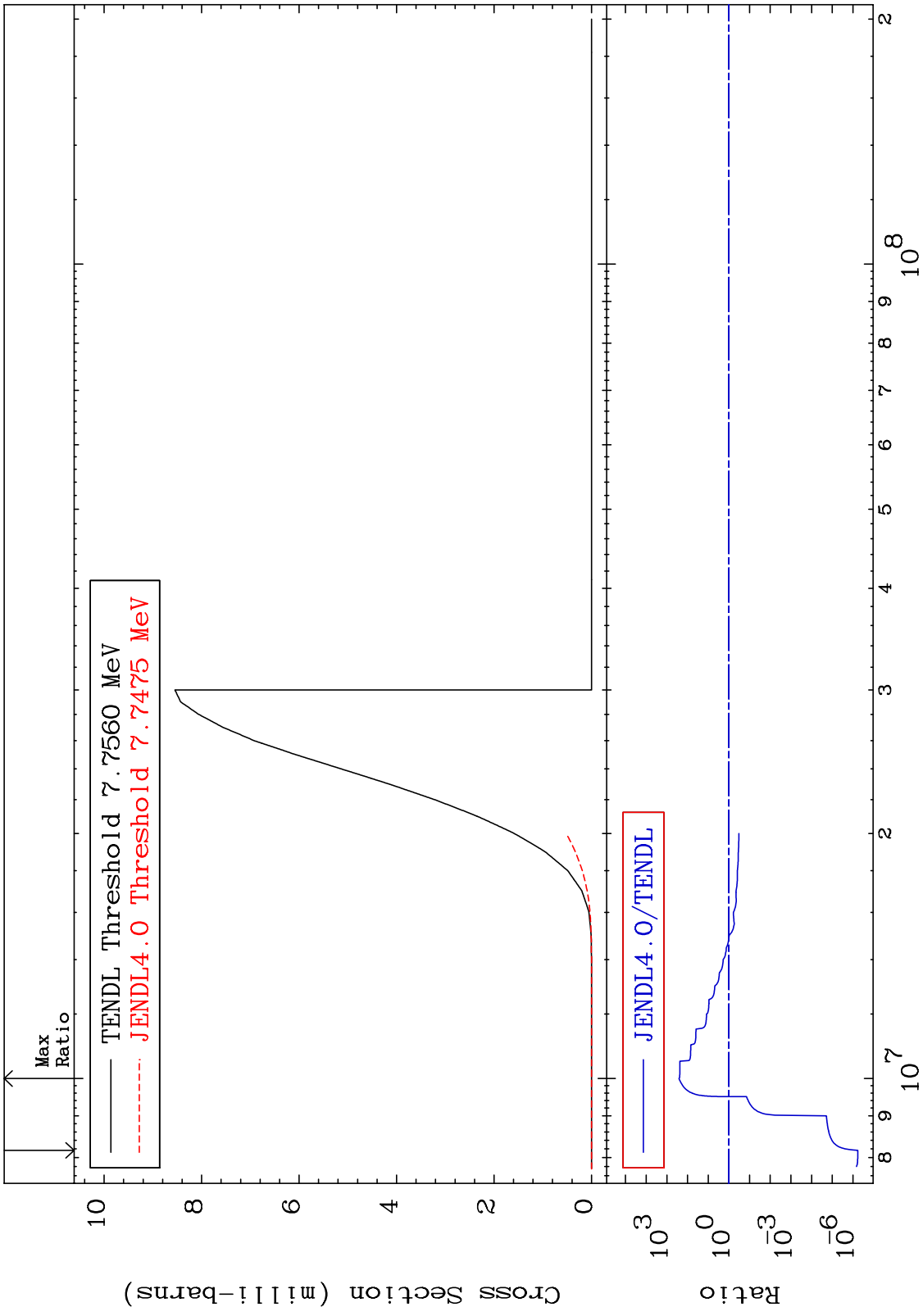
Incident Energy (eV)

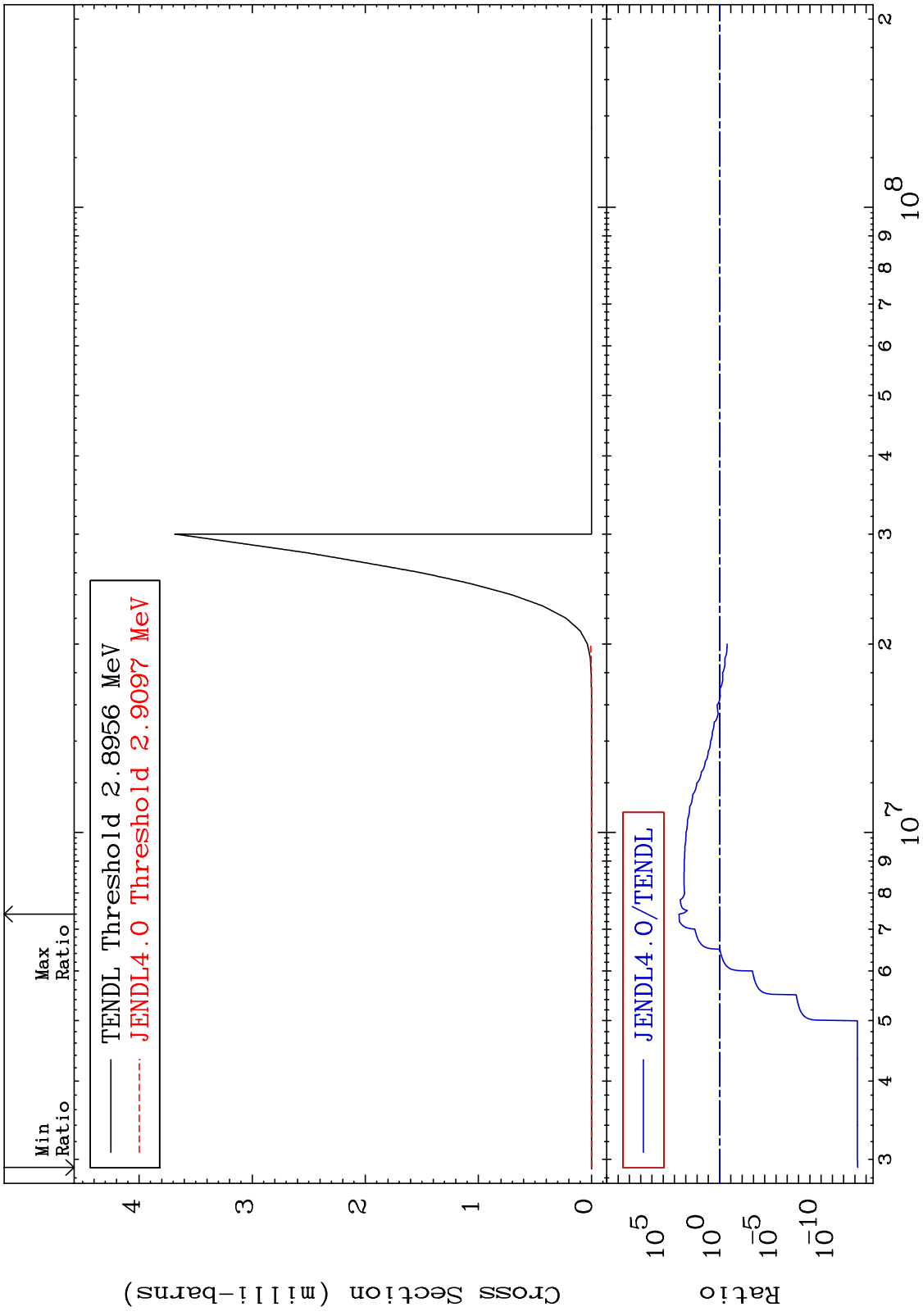
31

62-Sm-144

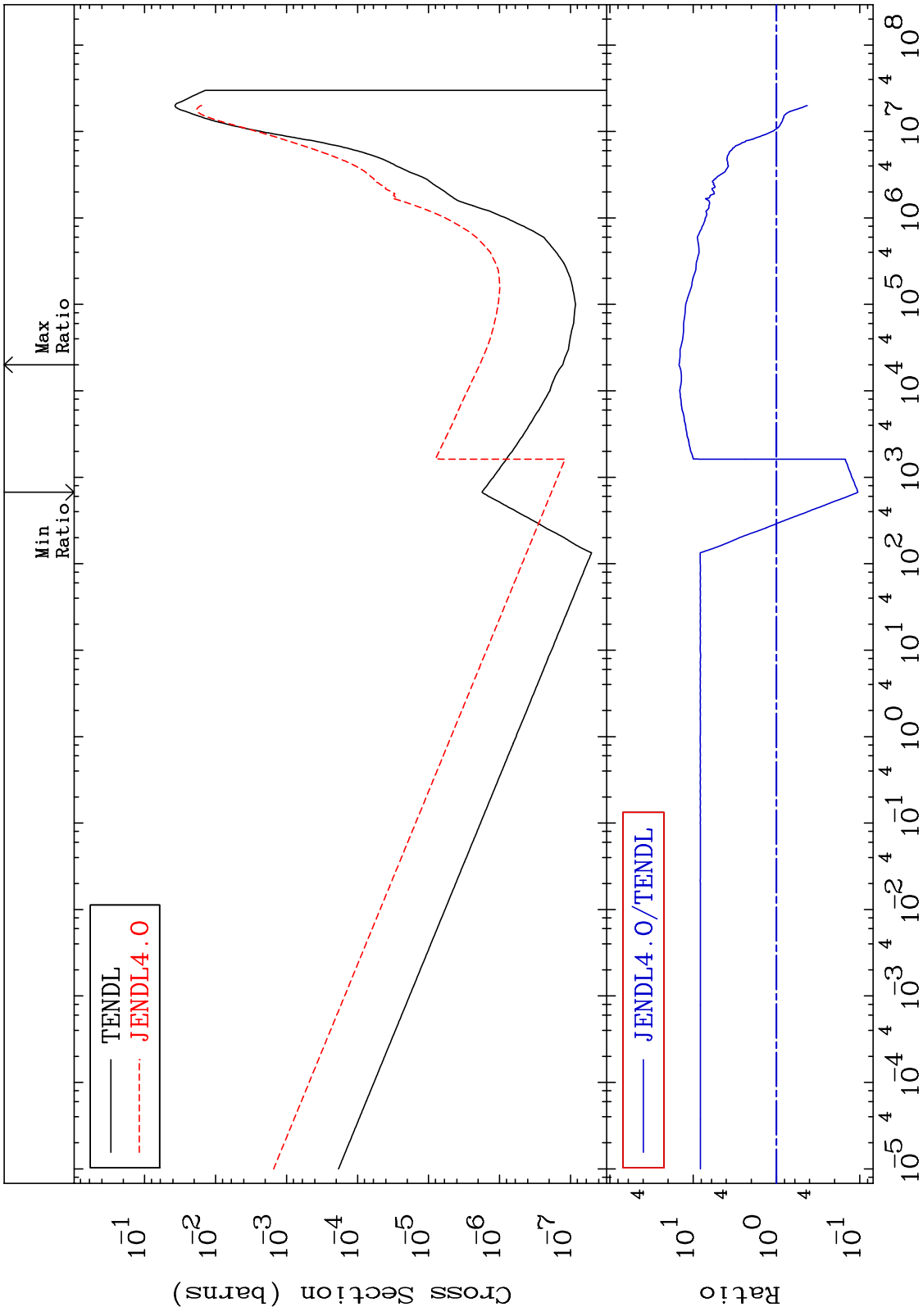
MAT 6225 (n,d) Cross Section 62-Sm-144 -50.42 To 9999. %





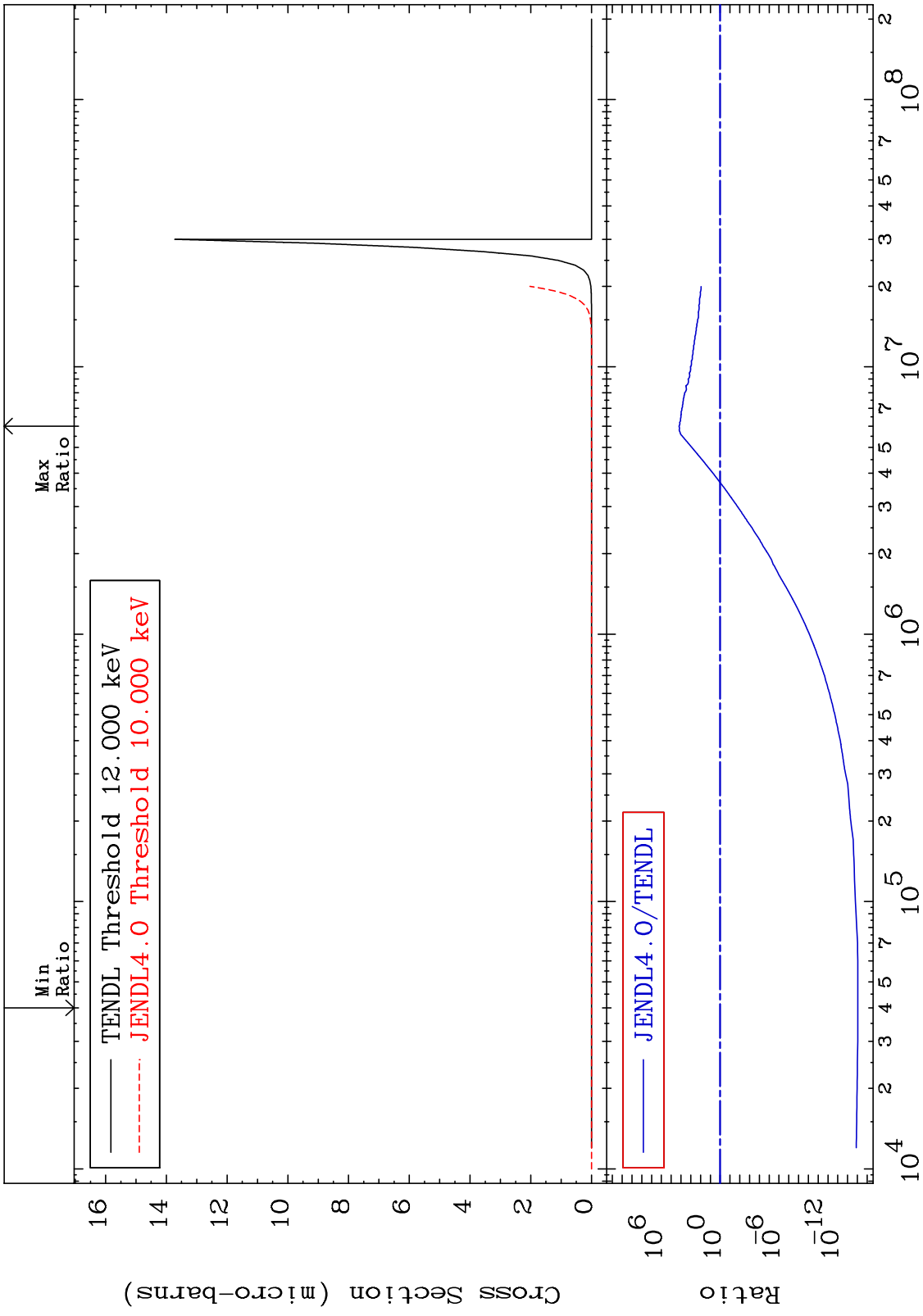


MAT 6225 (n, α) Cross Section 62-Sm-144 -89.48 To 1377. %

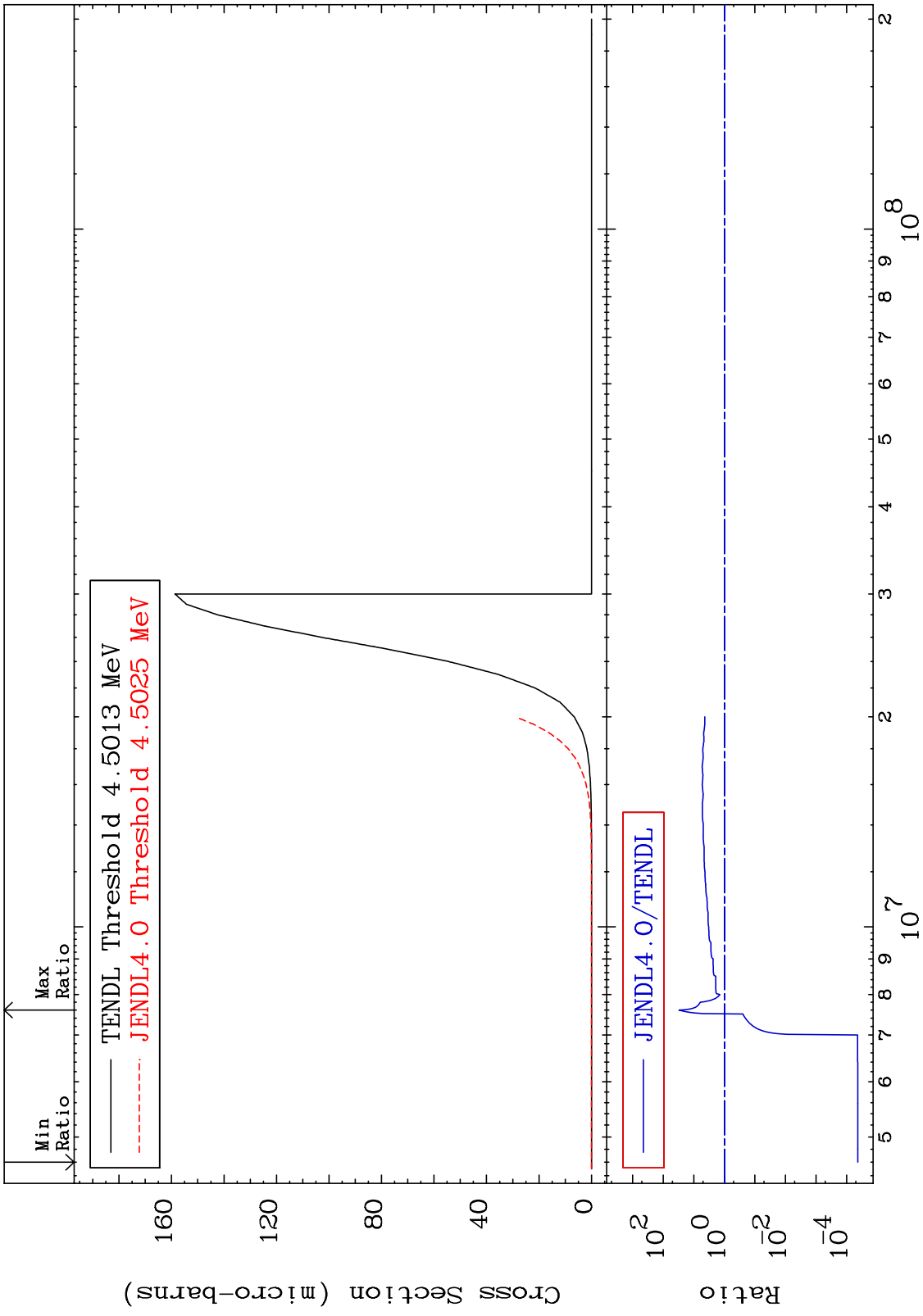


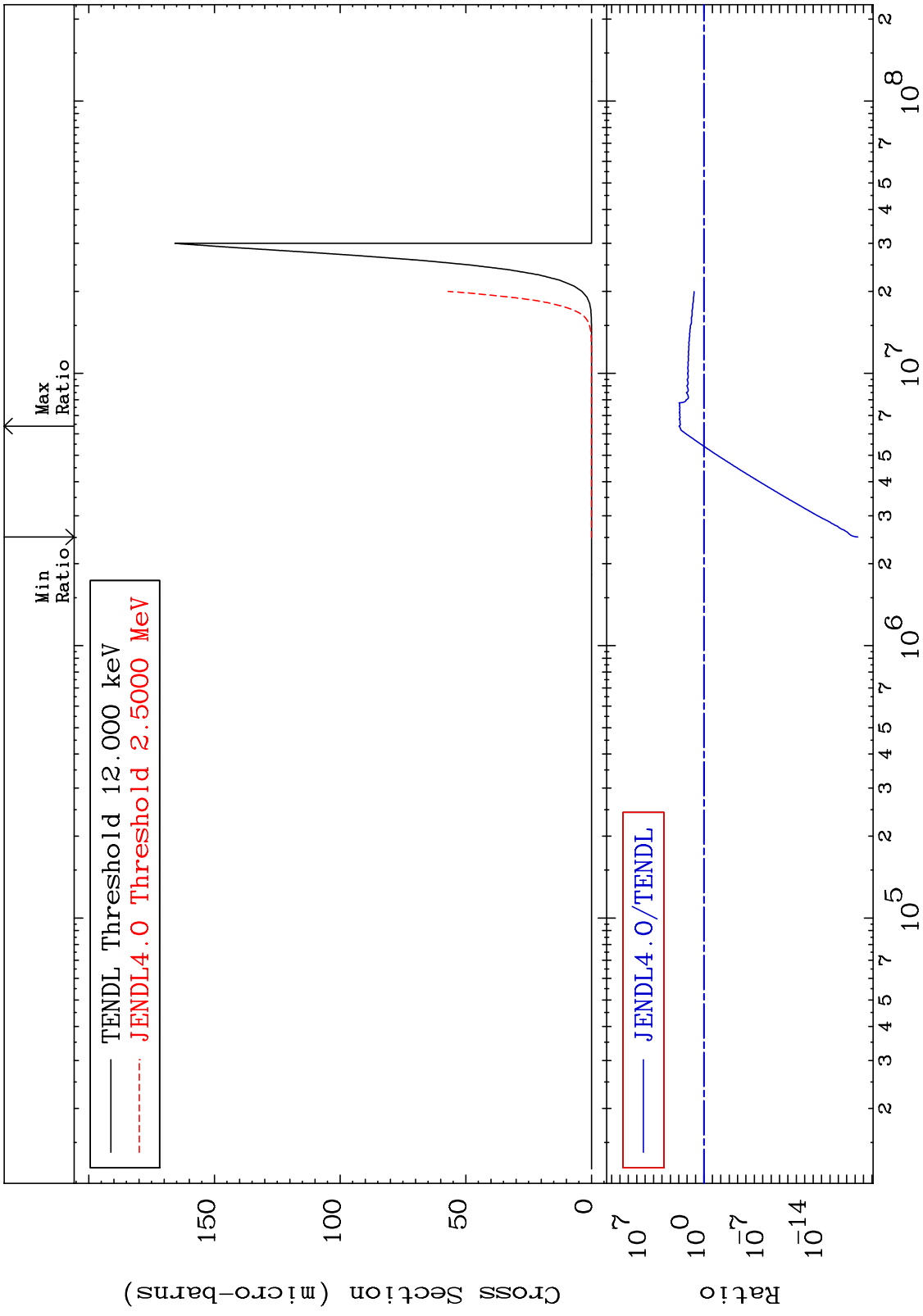
35 62-Sm-144

MAT 6225 (n,2α) Cross Section 62-Sm-144 -100.0 To 9999. %

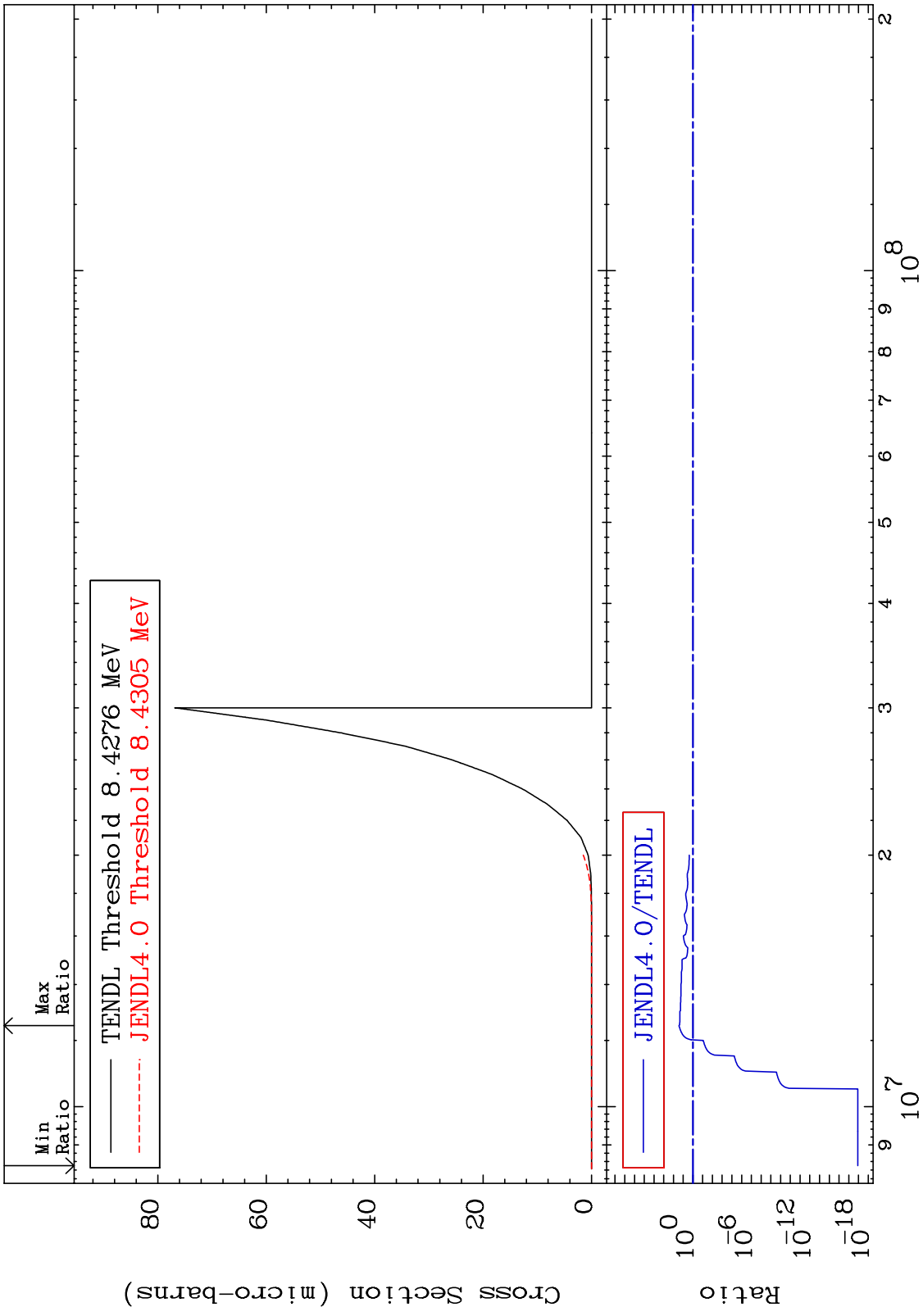


MAT 6225 (n,2p) Cross Section 62-Sm-144 -100.0 To 2939. %





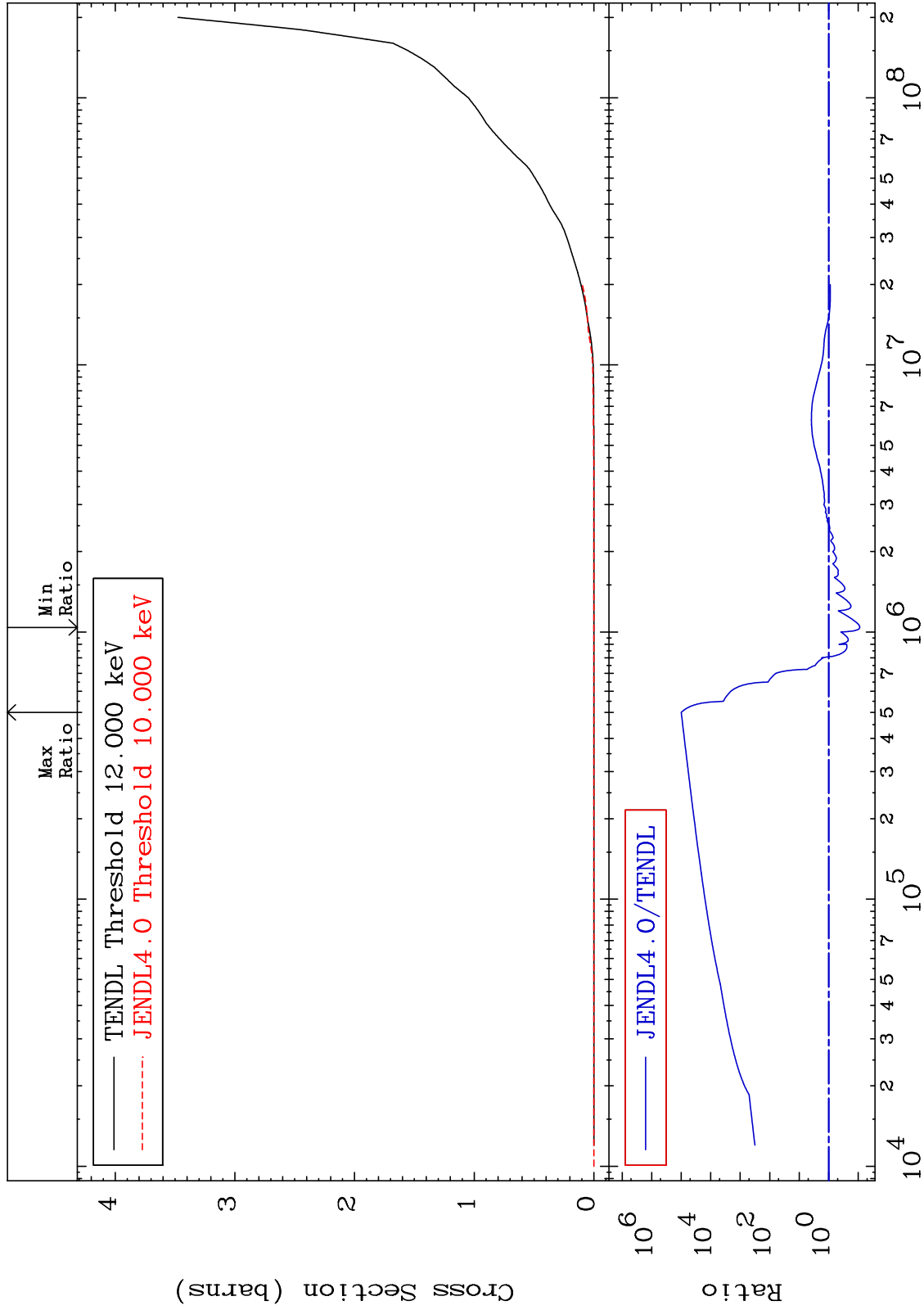
MAT 6225 (n,p) d 62-Sm-144
 Cross Section -100.0 To 2568. %



MAT 6225

Hydrogen Production
Cross Section

62-Sm-144
-91.09 To 9999. %

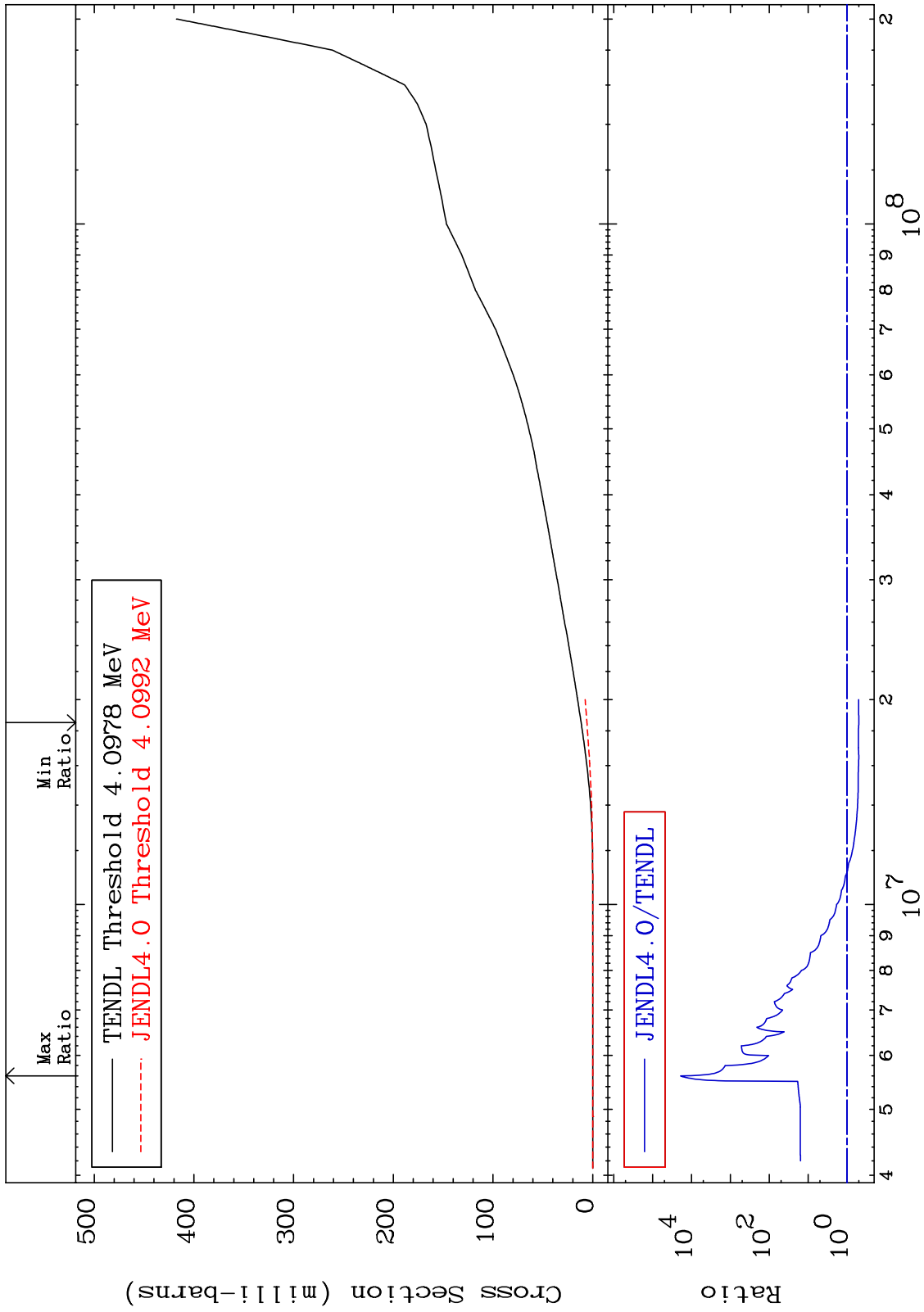


40

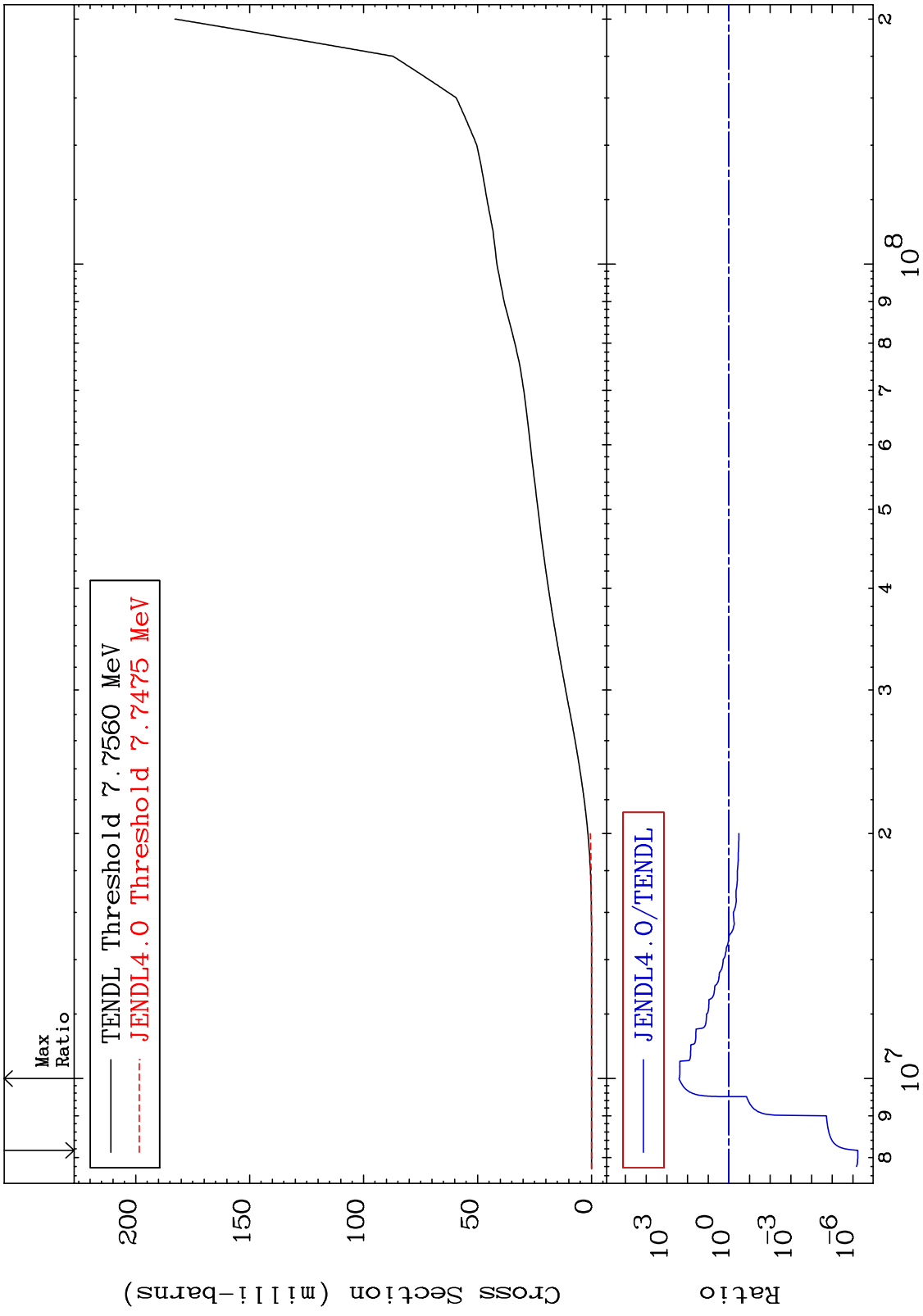
Incident Energy (eV)

62-Sm-144

MAT 6225 Deuterium Production Cross Section 62-Sm-144 -50.42 To 9999. %



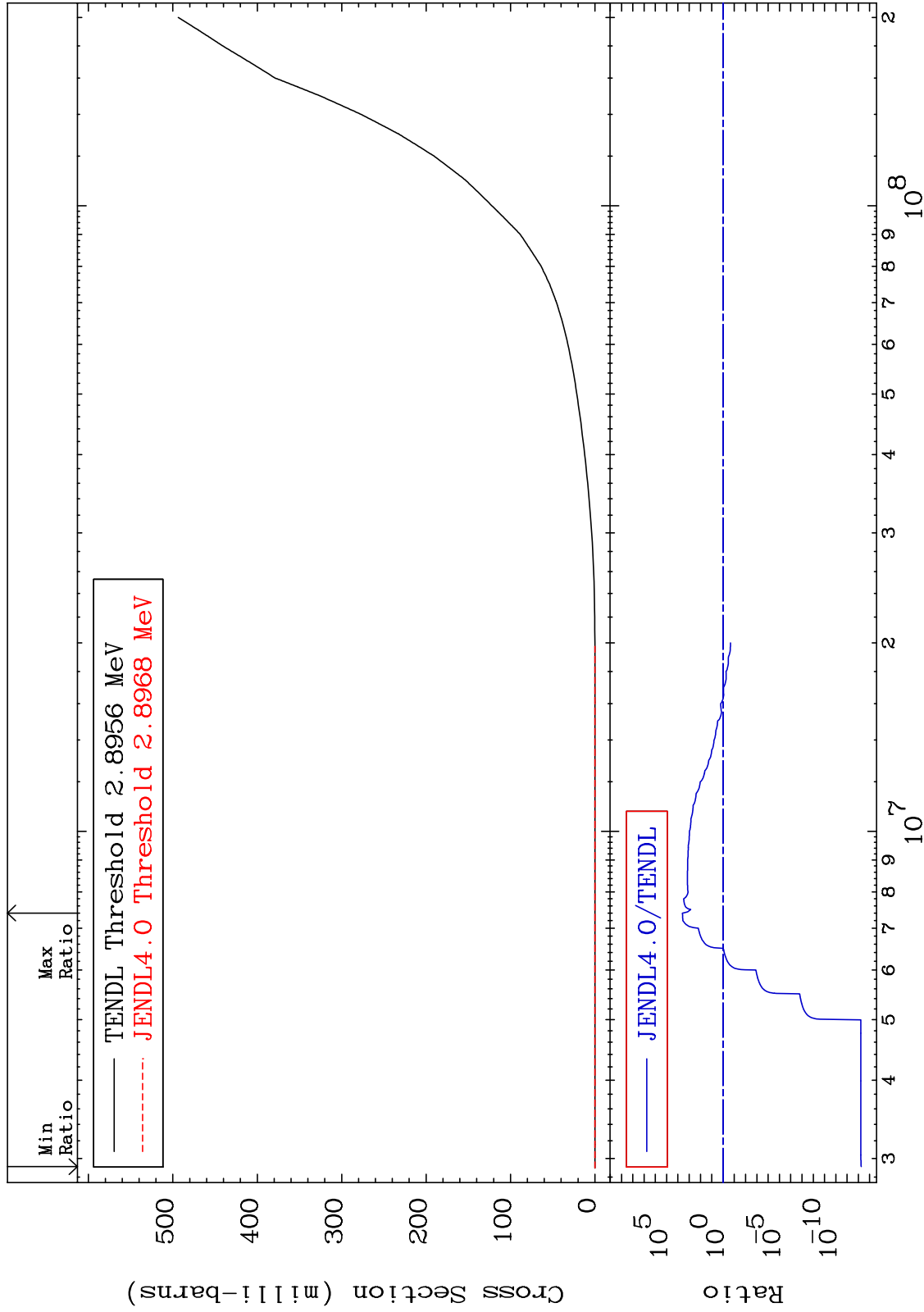
MAT 6225 Tritium Production Cross Section 62-Sm-144 -100.0 To 9999. %



MAT 6225

He-3 Production
Cross Section

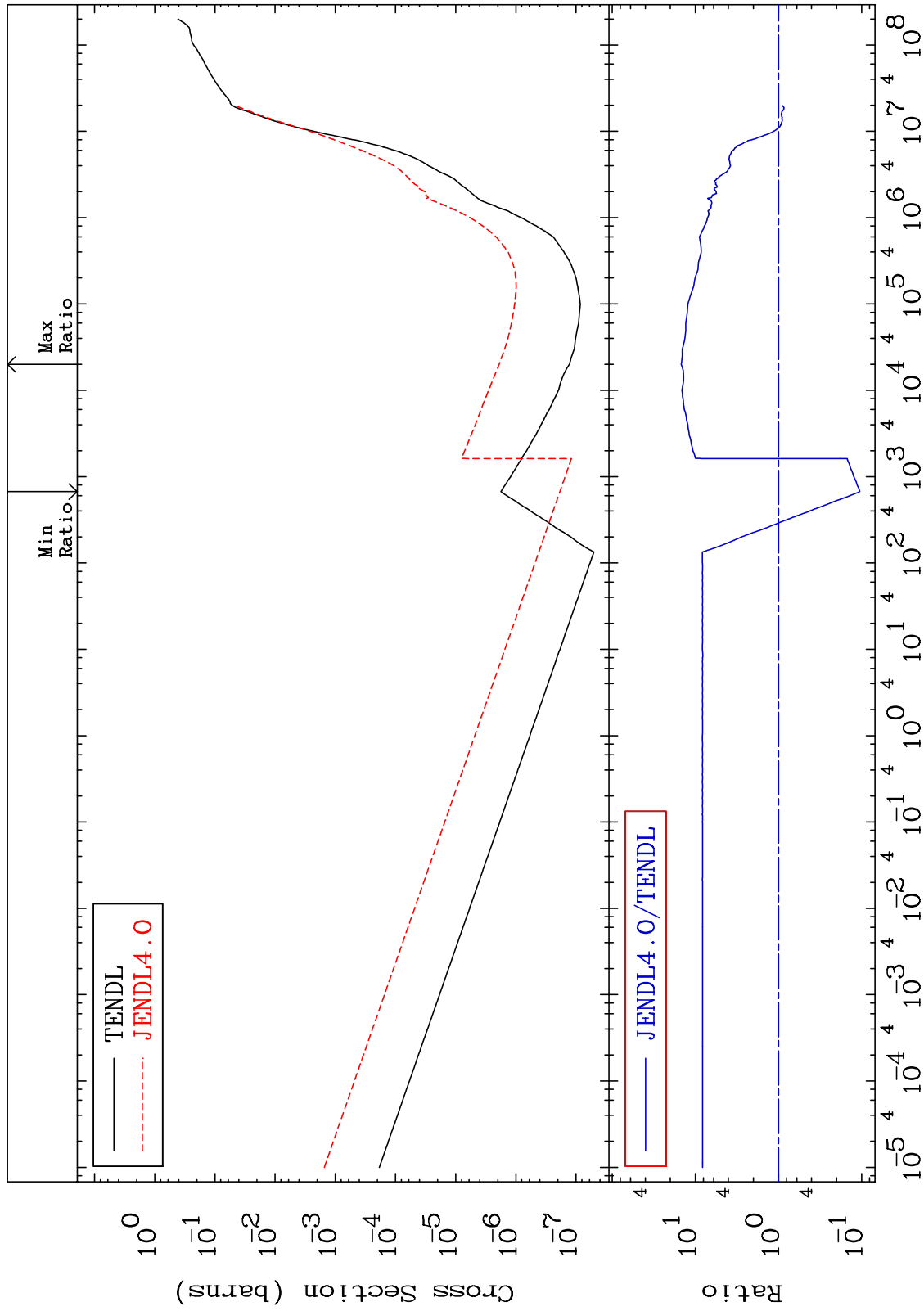
62-Sm-144
-100.0 To 9999. %

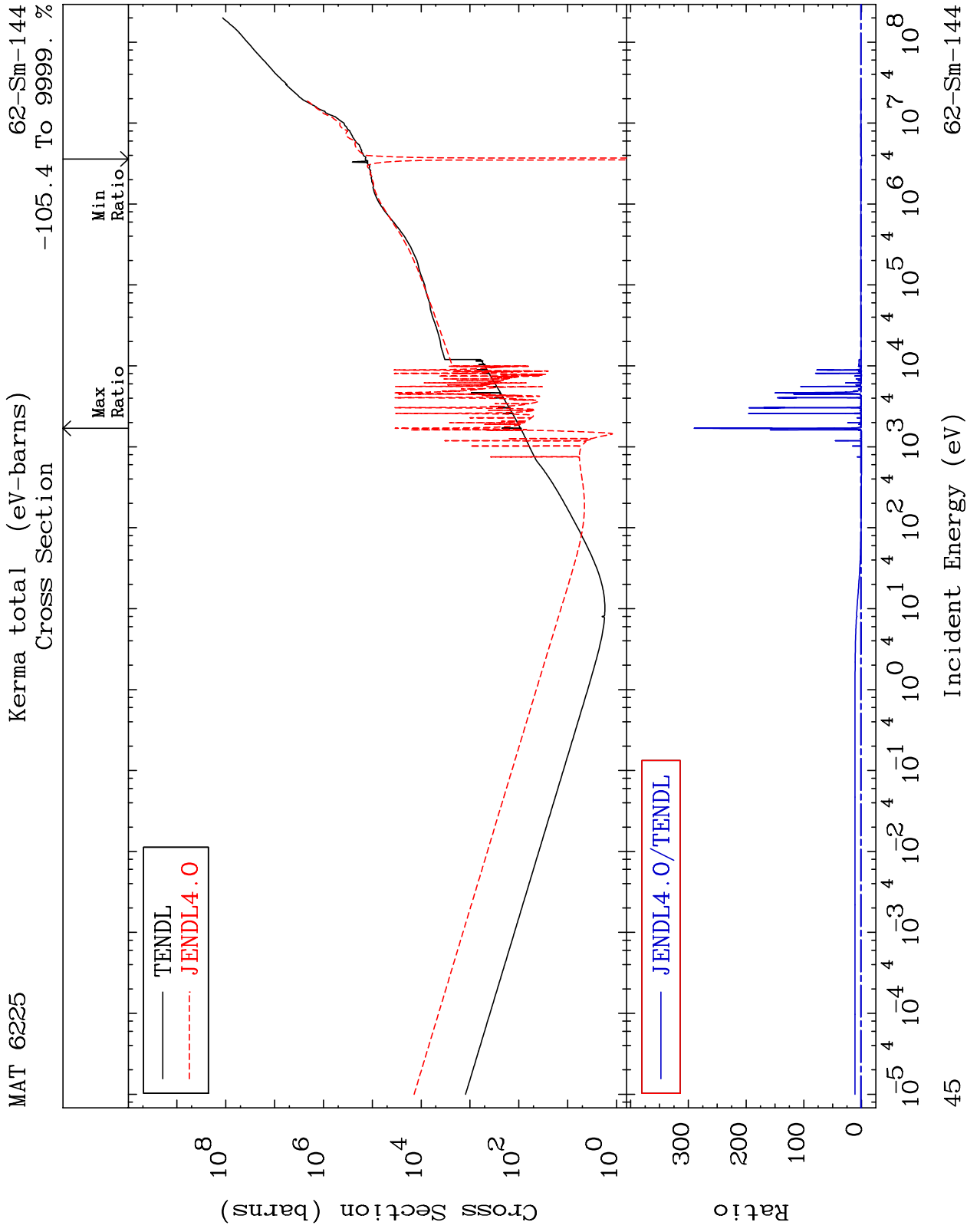


MAT 6225

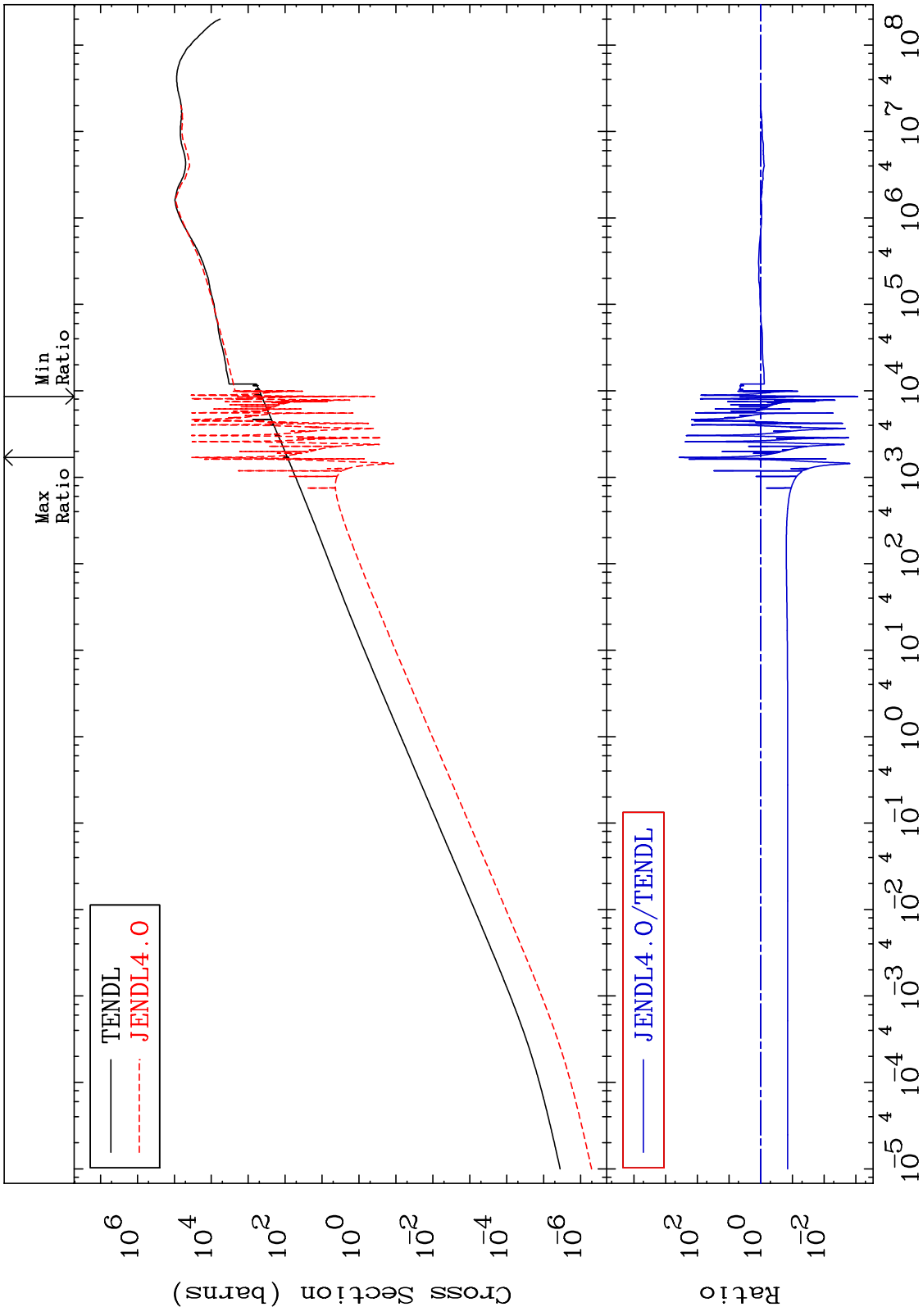
He-4 Production
Cross Section

62-Sm-144
-89.48 To 1377. %



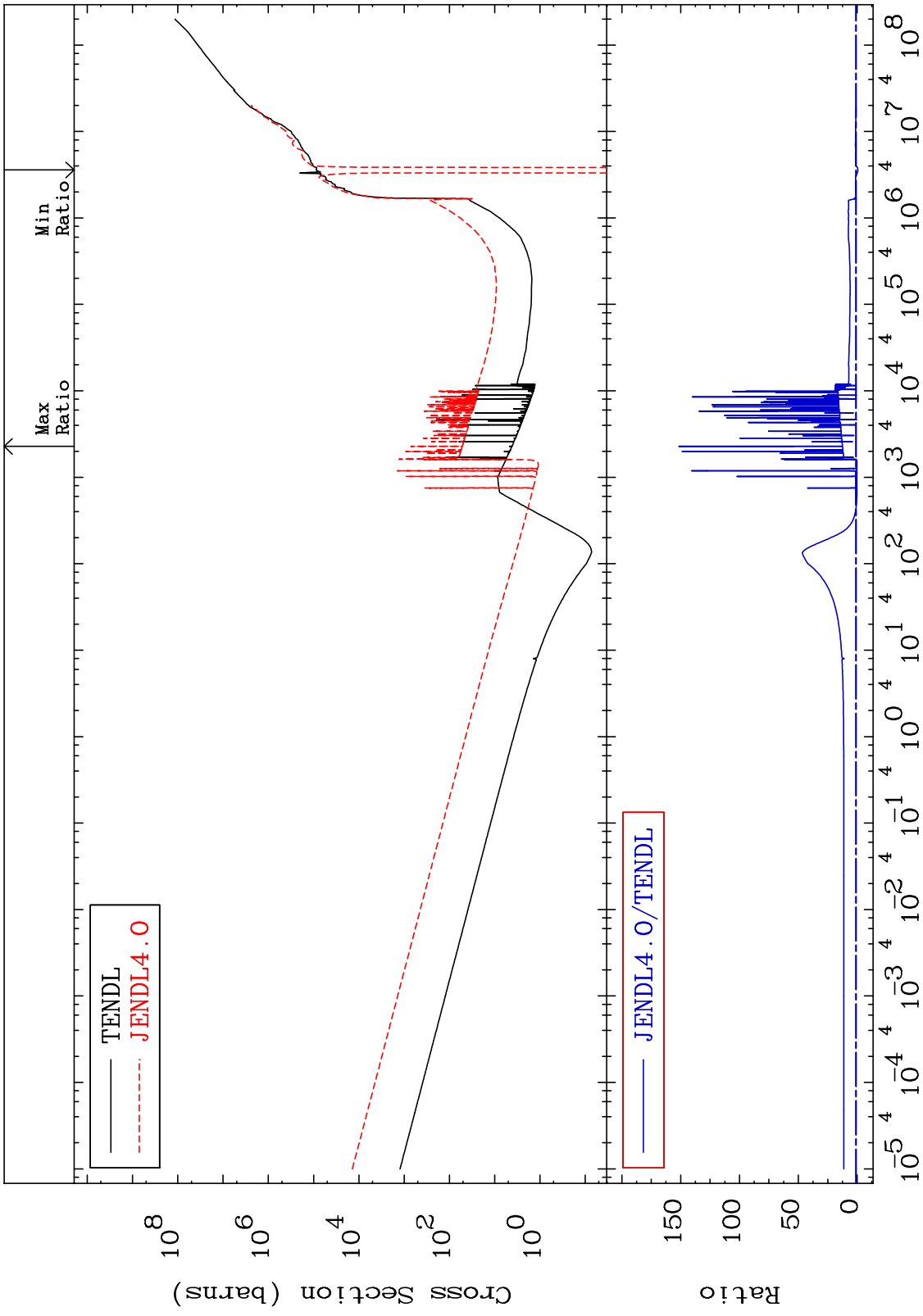


MAT 6225 62-Sm-144 -99.91 To 9999. %
 Kerma elastic Cross Section

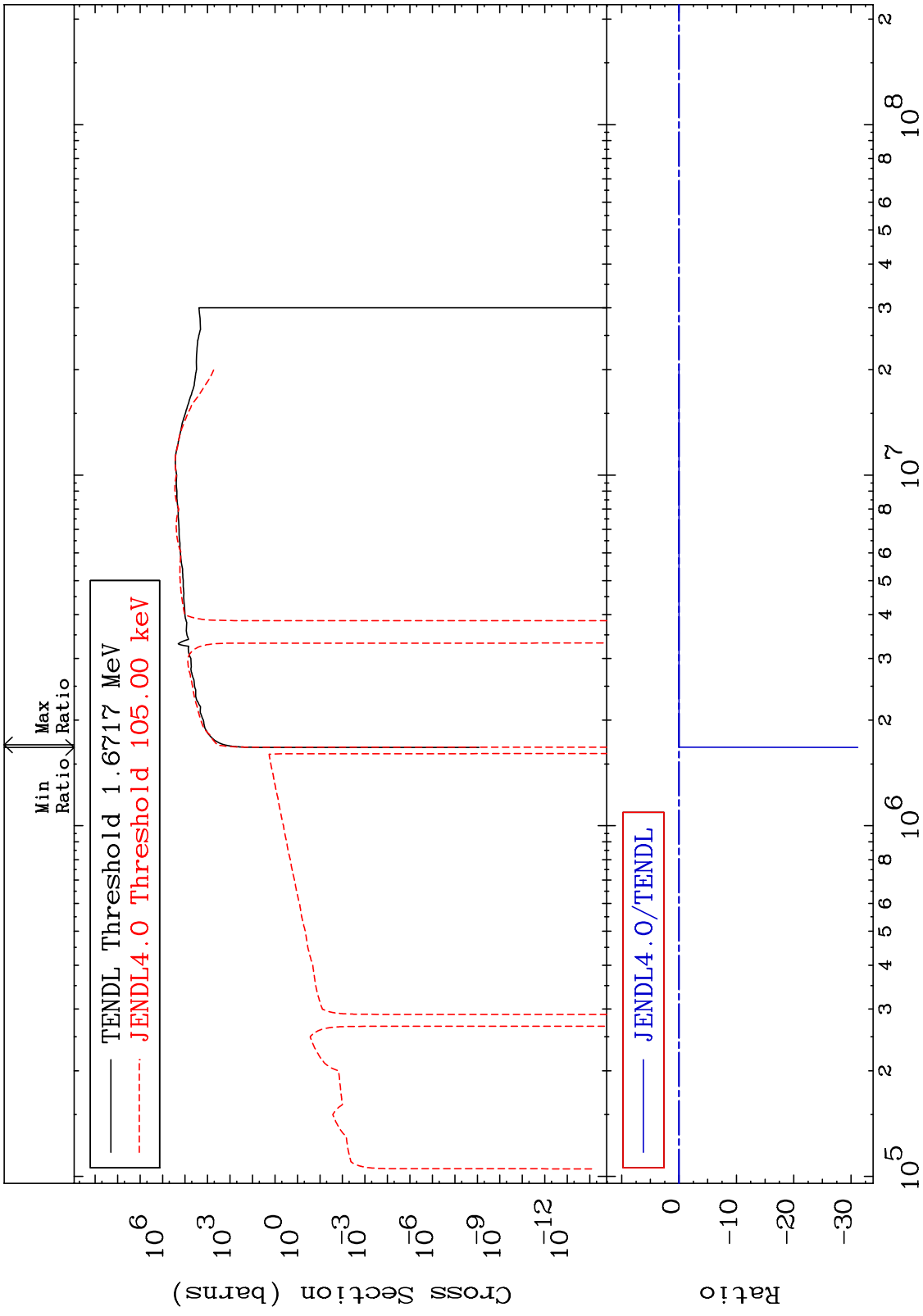


62-Sm-144
 Incident Energy (eV)

MAT 6225 Kerma non-elastic (all but mt2) Cross Section 62-Sm-144 -156.7 To 9999. %

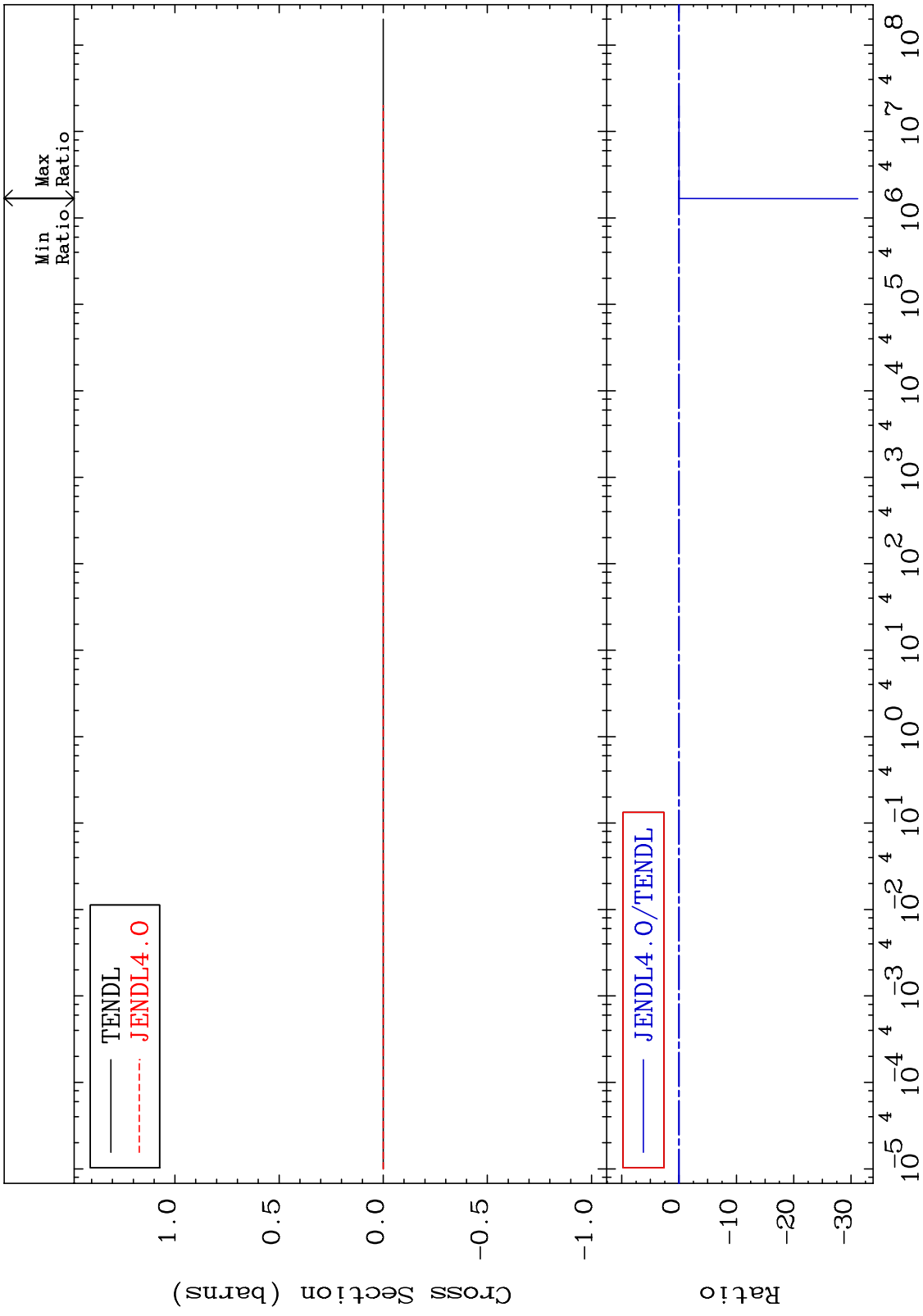


MAT 6225 Kerma inelastic (mt51-91) 62-Sm-144
Cross Section -9999. To 114.0 %

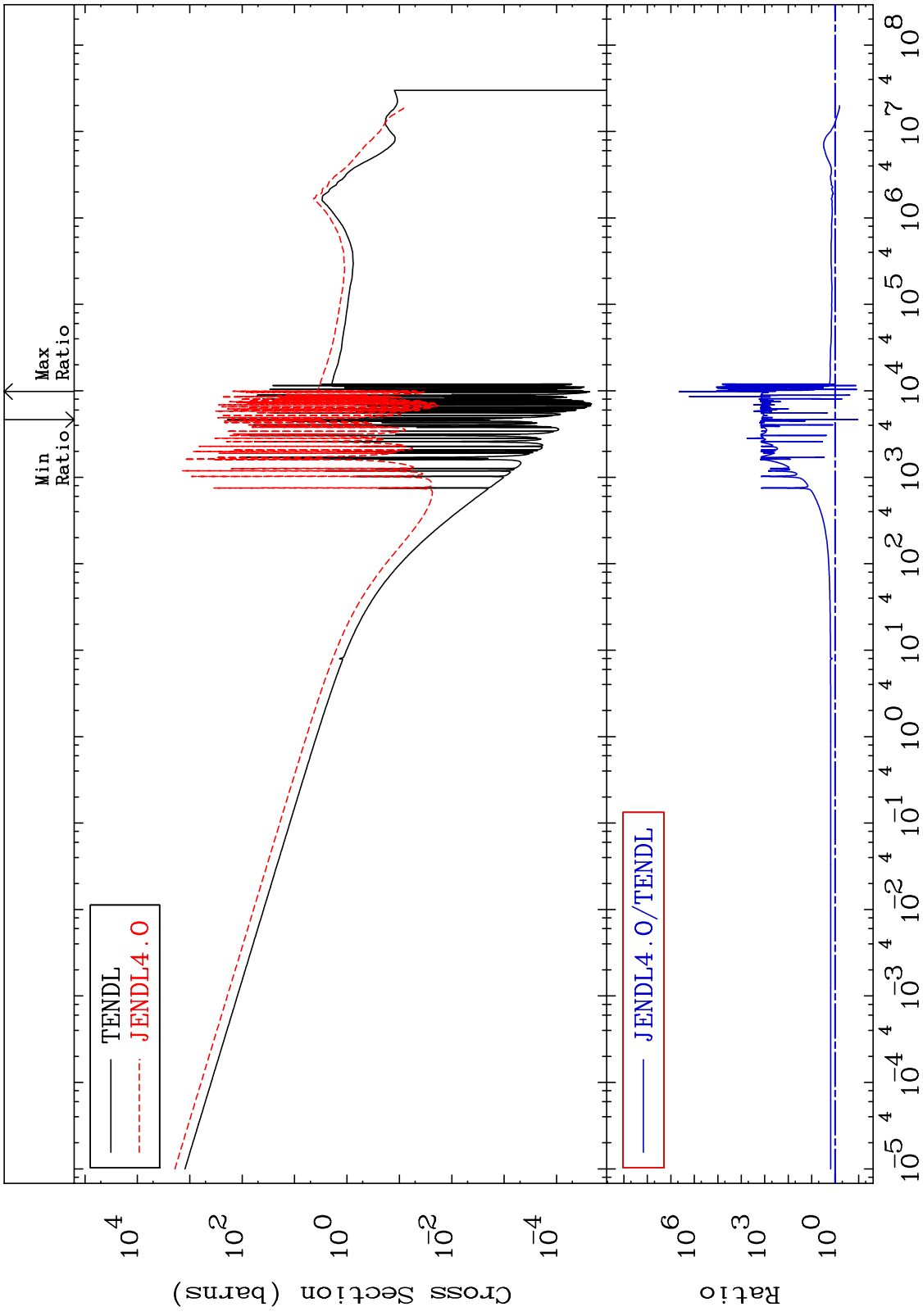


48 62-Sm-144

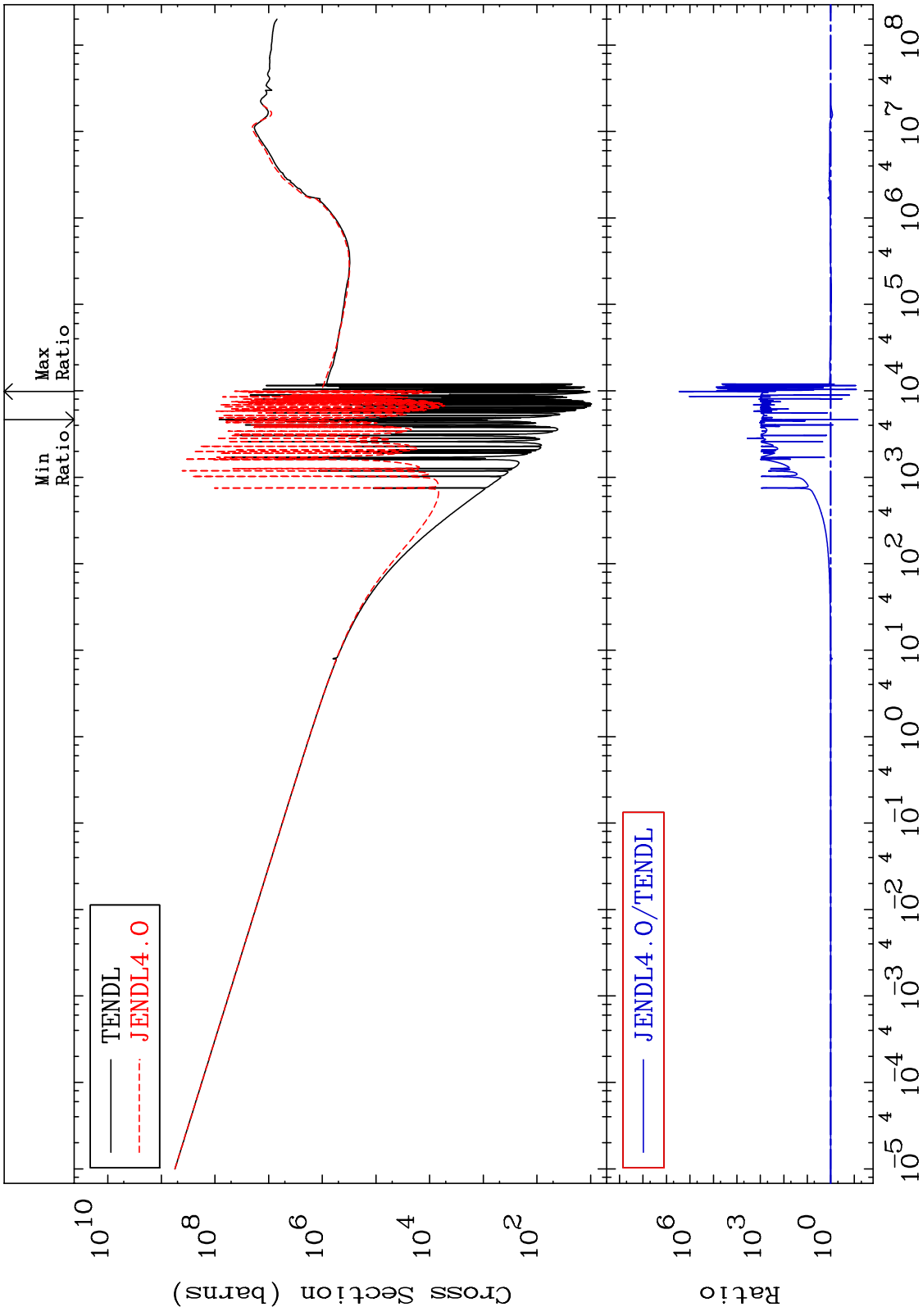
MAT 6225 Kerma fission (mt18 or mt19-20-21-38) 62-Sm-144
 Cross Section -9999. To 114.0 %



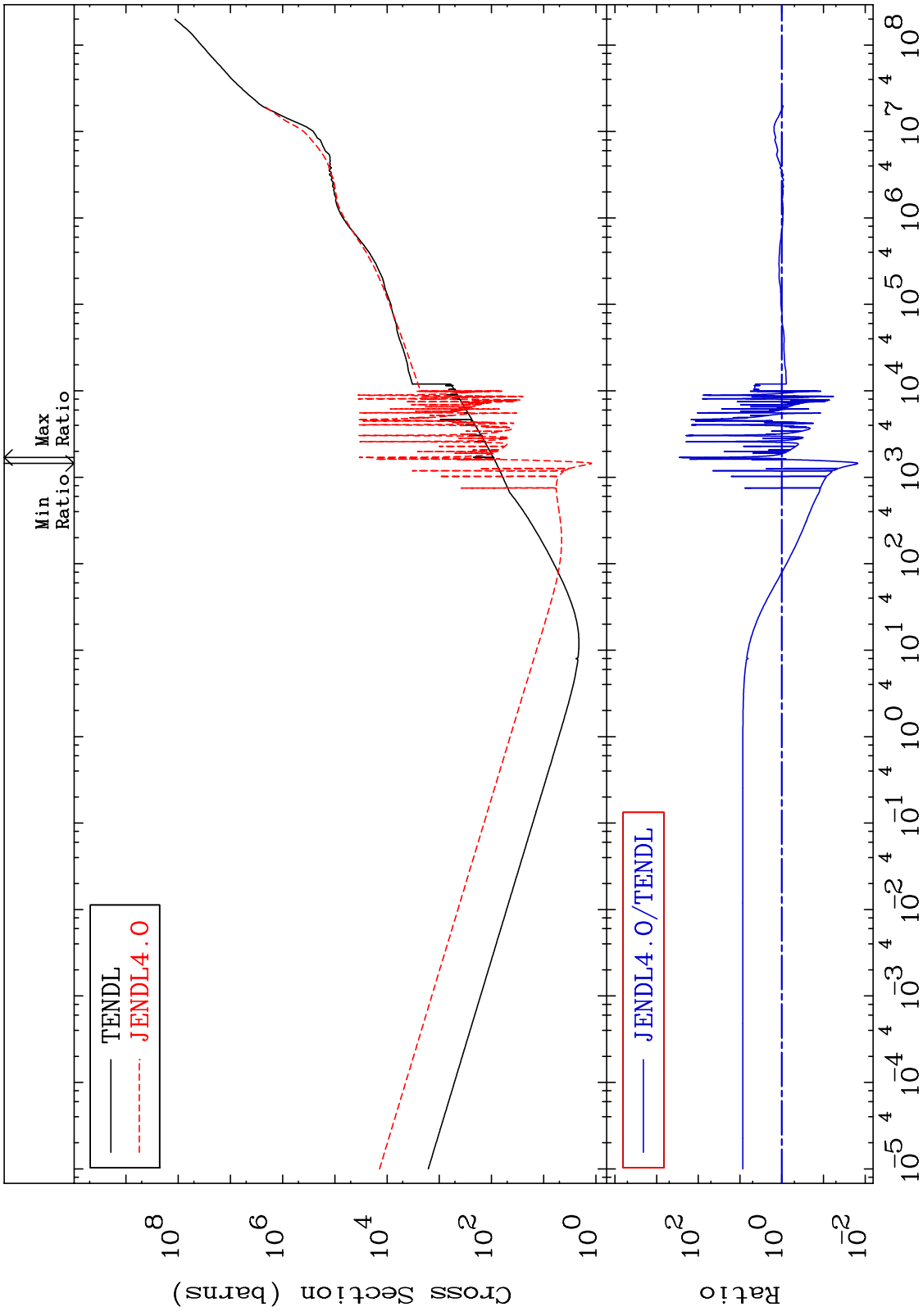
MAT 6225 Kerma capture (mt102) 62-Sm-144
 Cross Section -89.20 To 9999. %



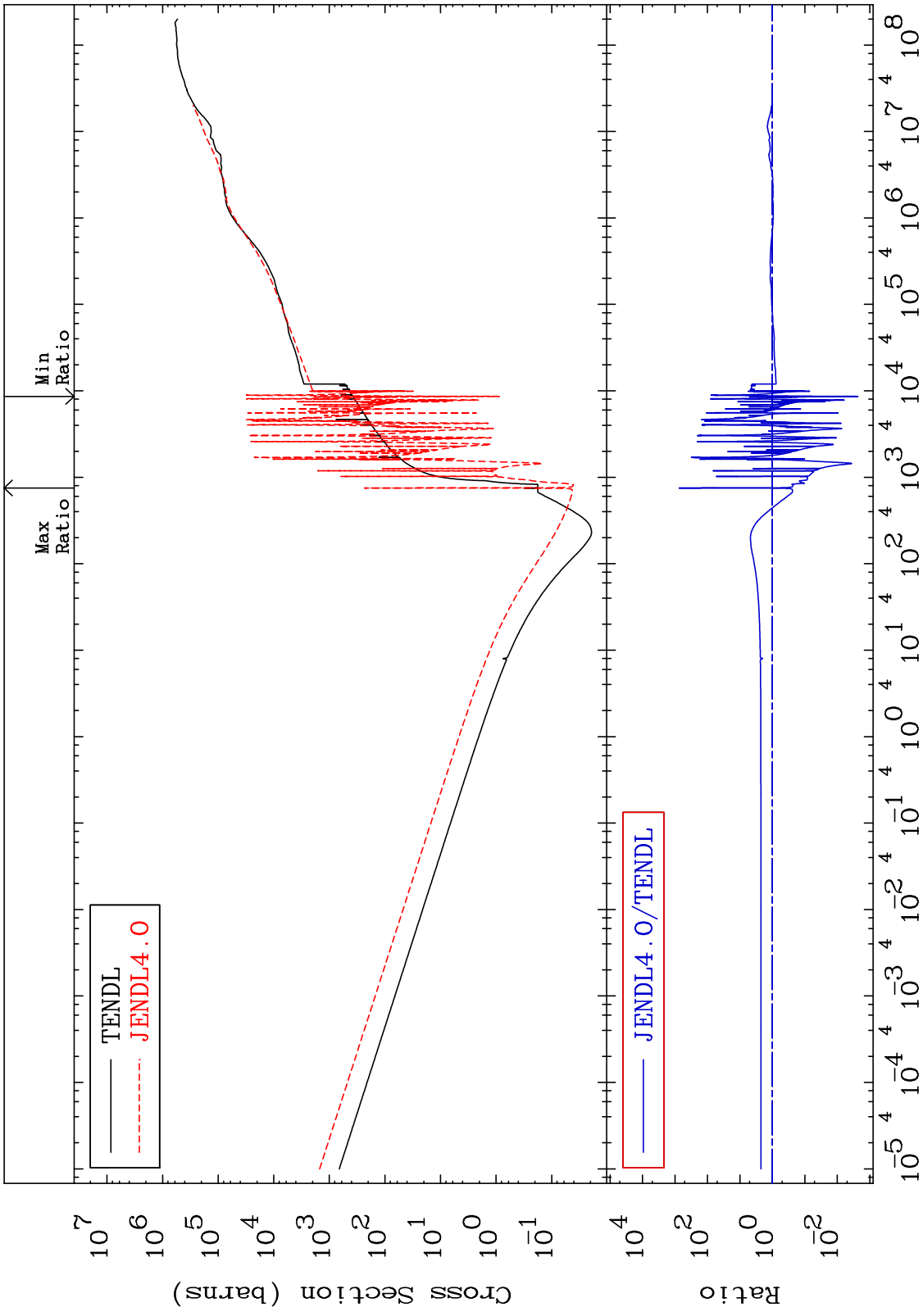
MAT 6225 62-Sm-144
-92.97 To 9999. %
 Total photon (eV-barns)
 Cross Section



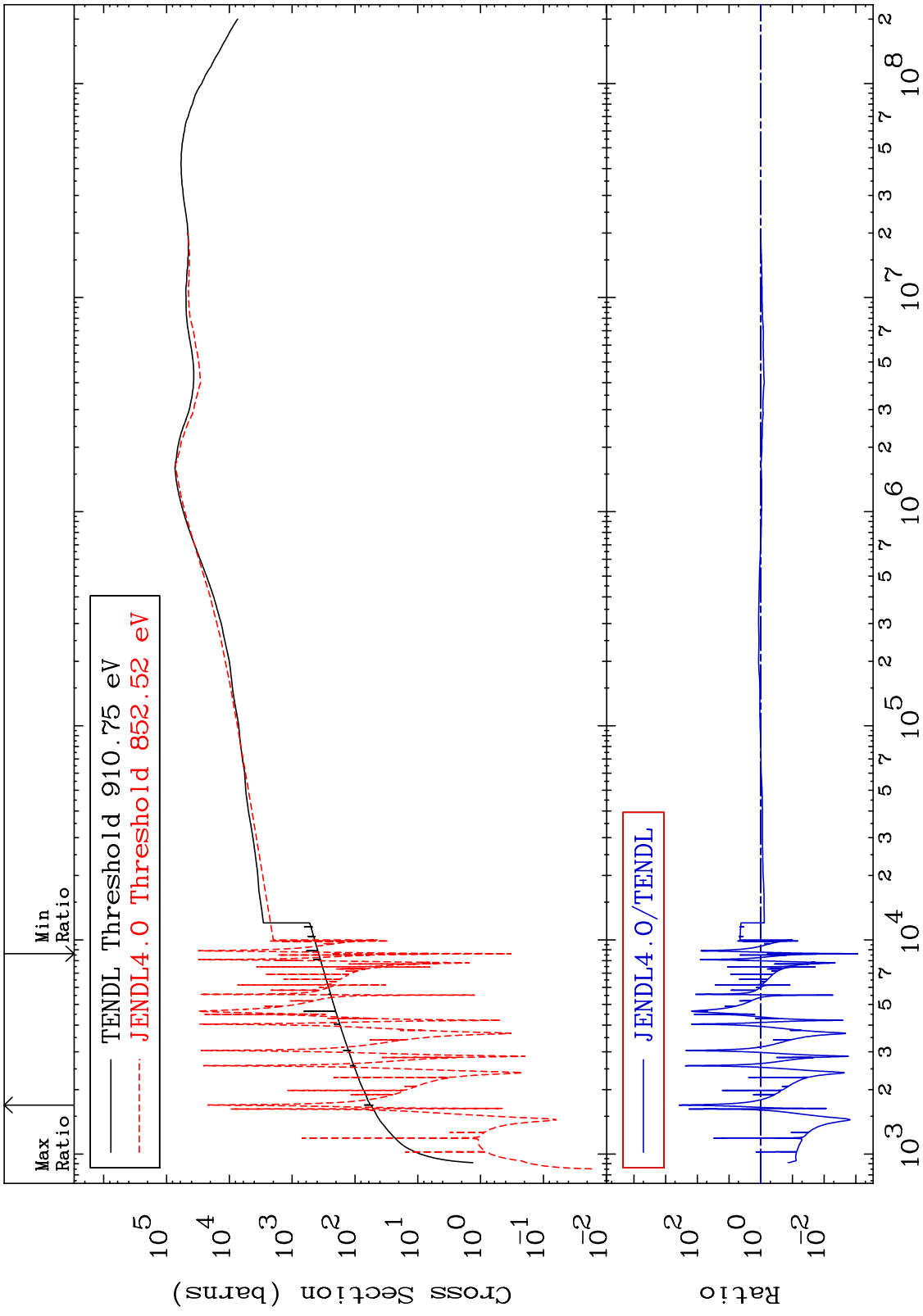
MAT 6225 Total kinematic kerma (high limit) 62-Sm-144
 Cross Section -98.50 To 9999. %



MAT 6225 Dpa total (eV-barns) 62-Sm-144
 Cross Section -99.77 To 9999. %



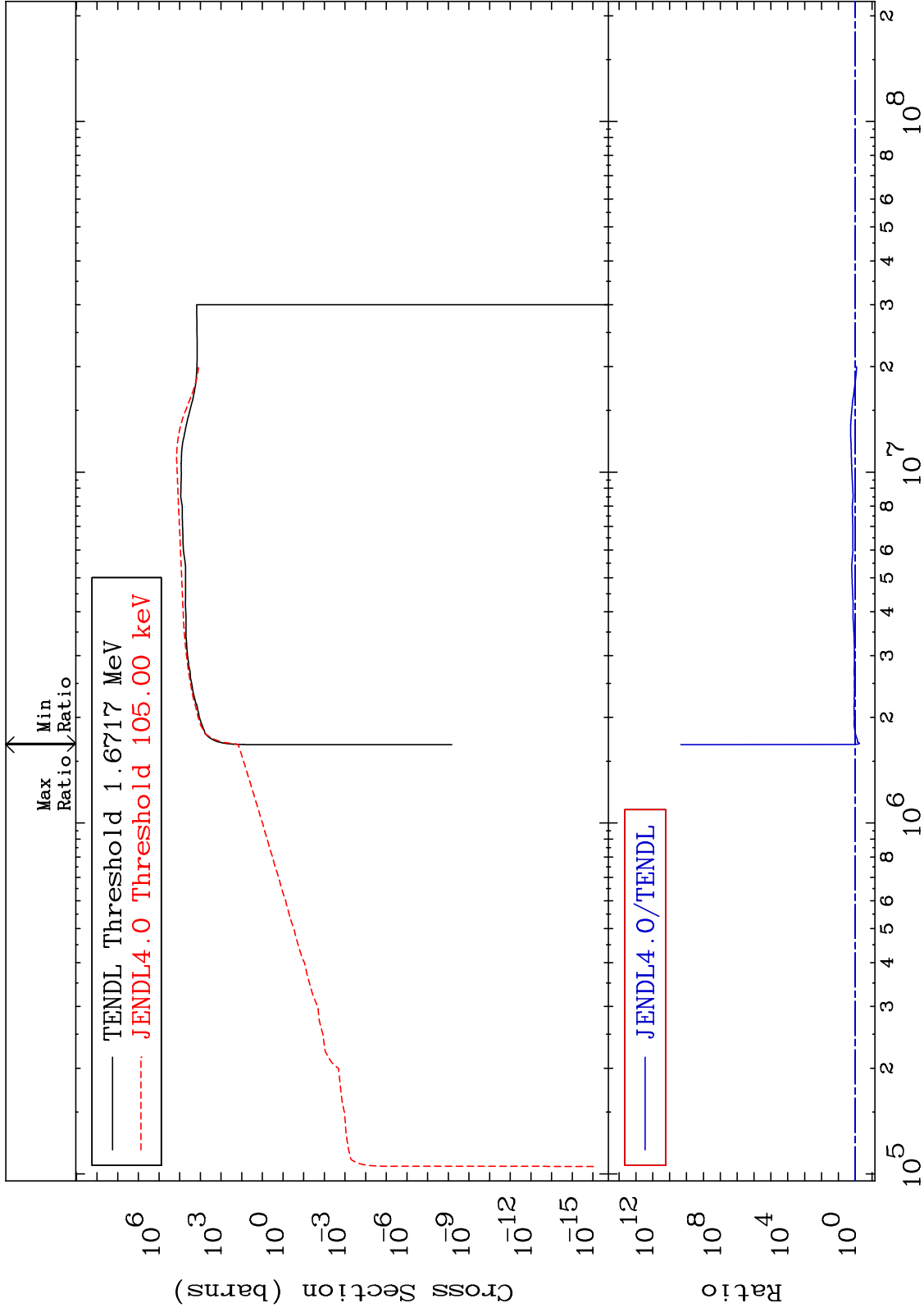
MAT 6225 Dpa elastic (mt2) 62-Sm-144
 Cross Section -99.91 To 9999. %



MAT 6225

Dpa inelastic (mt51-91)
Cross Section

62-Sm-144
-44.99 To 9999. %



55

Incident Energy (eV)

62-Sm-144

MAT 6225 Dpa disappearance (mt102 -120) 62-Sm-144
 Cross Section -86.10 To 9999. %

