

Program Complot  
(Version 2018-1)

by

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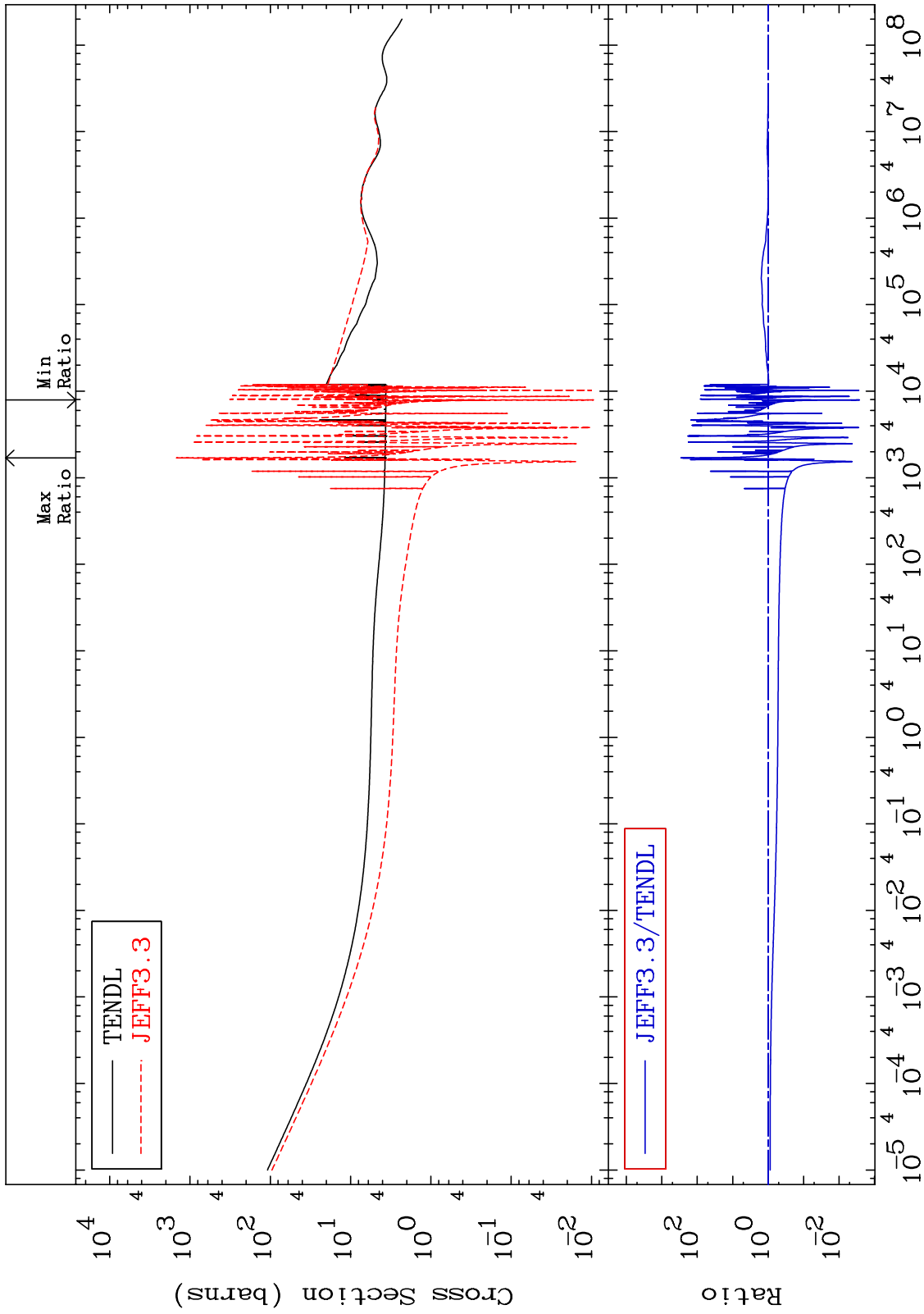
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 6225

Total  
Cross Section

62-Sm-144  
-99.74 To 9999. %



1

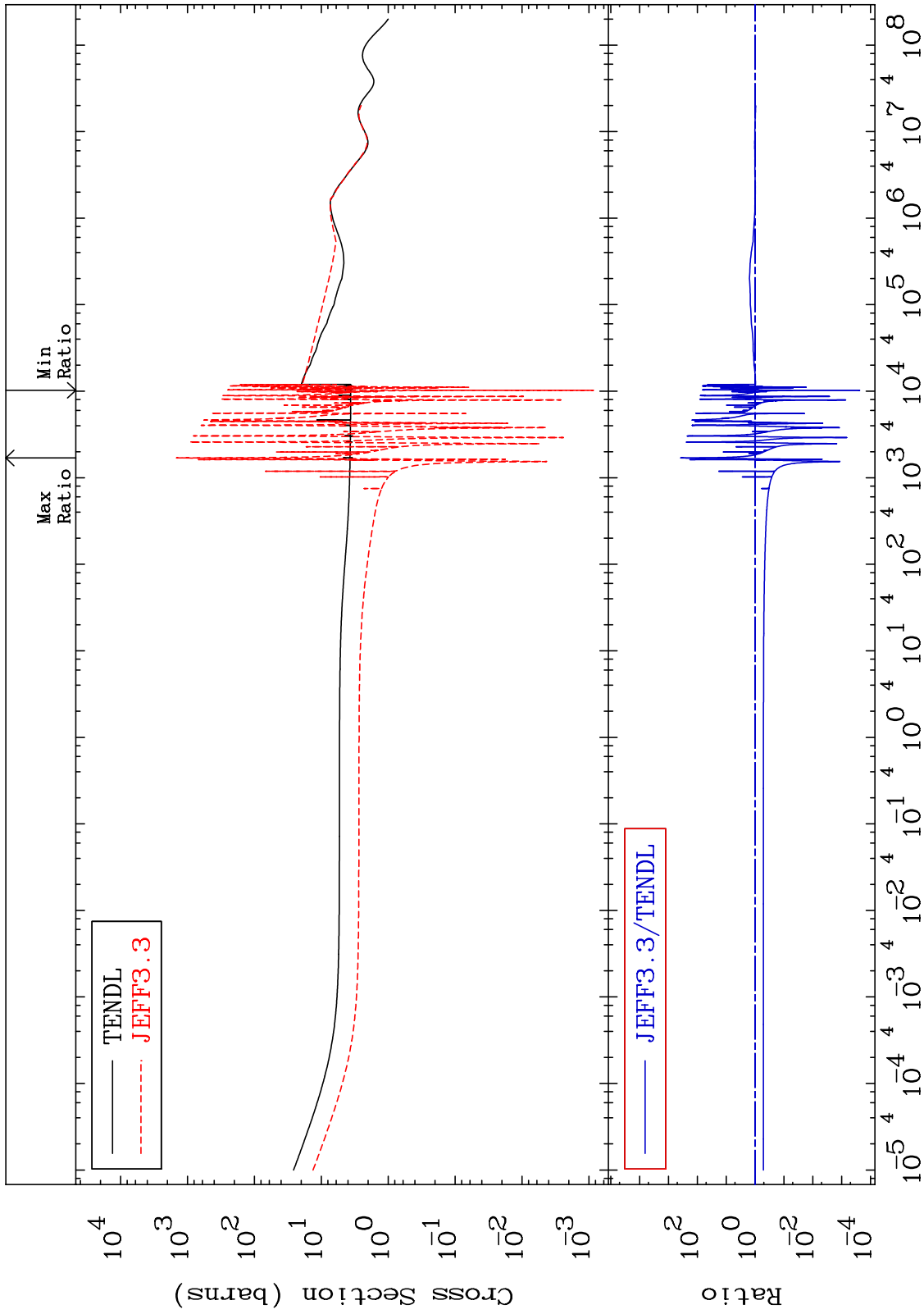
Incident Energy (eV)

62-Sm-144

MAT 6225

Elastic  
Cross Section

62-Sm-144  
-99.98 To 9999. %

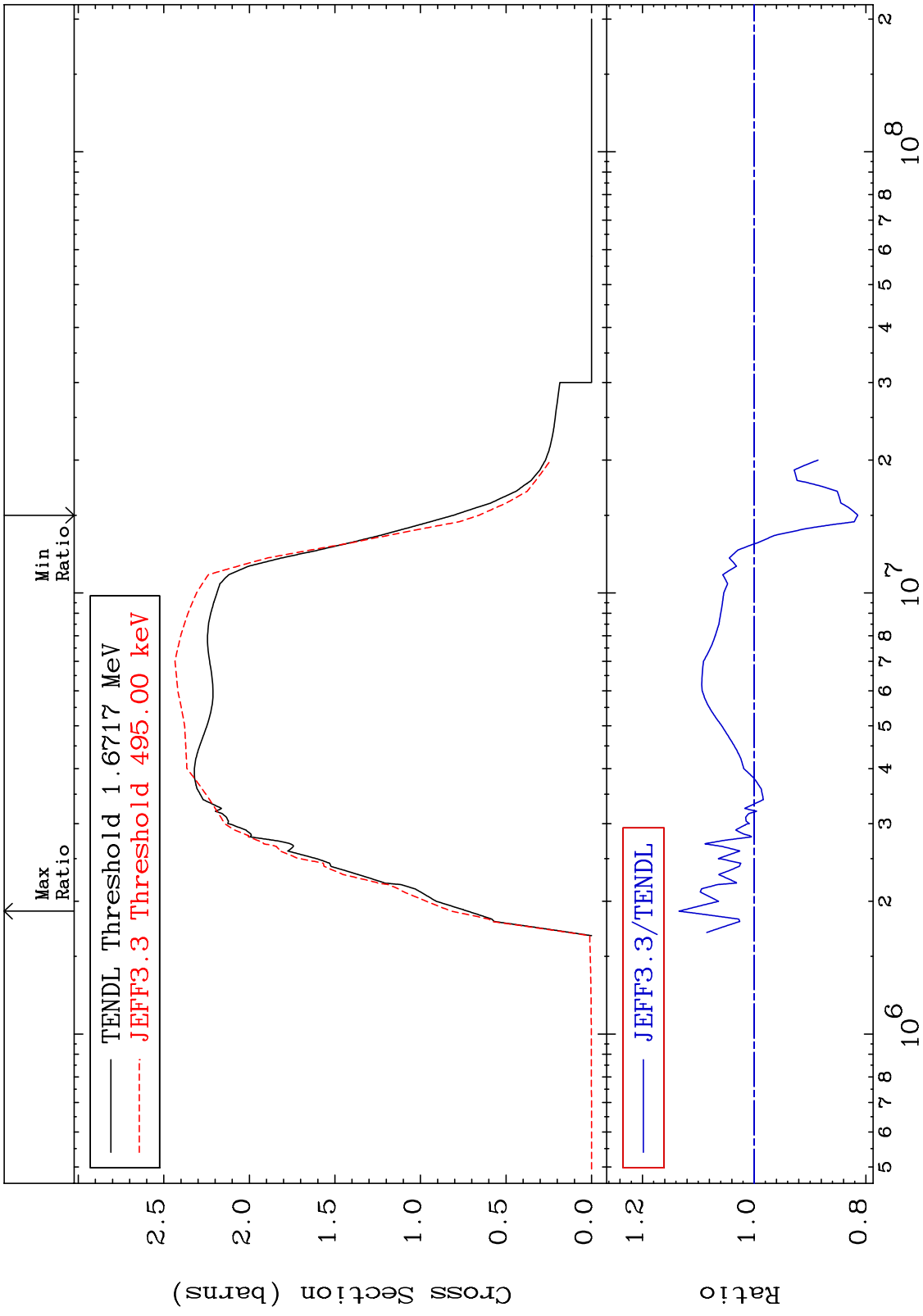


2

Incident Energy (eV)

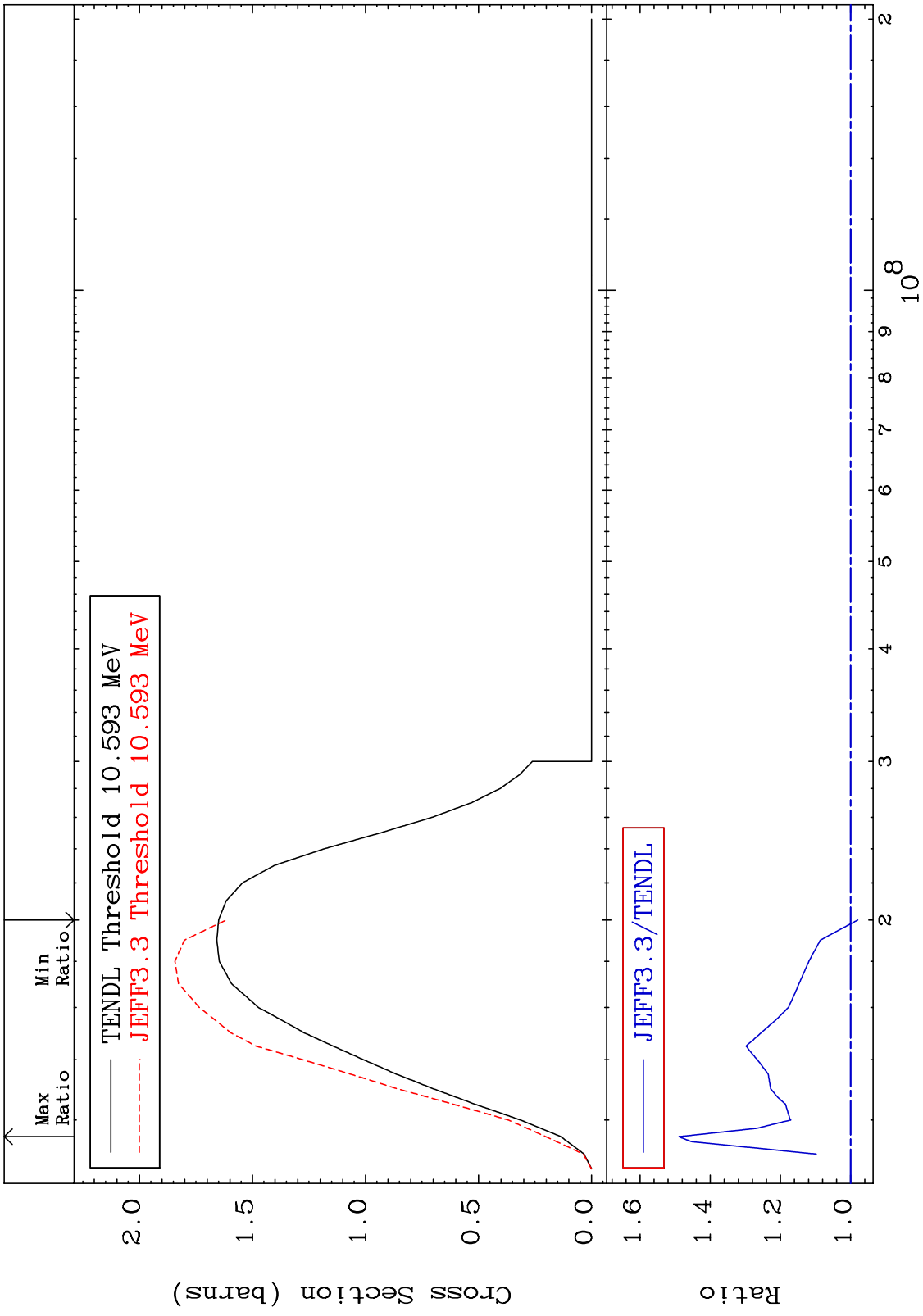
62-Sm-144

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



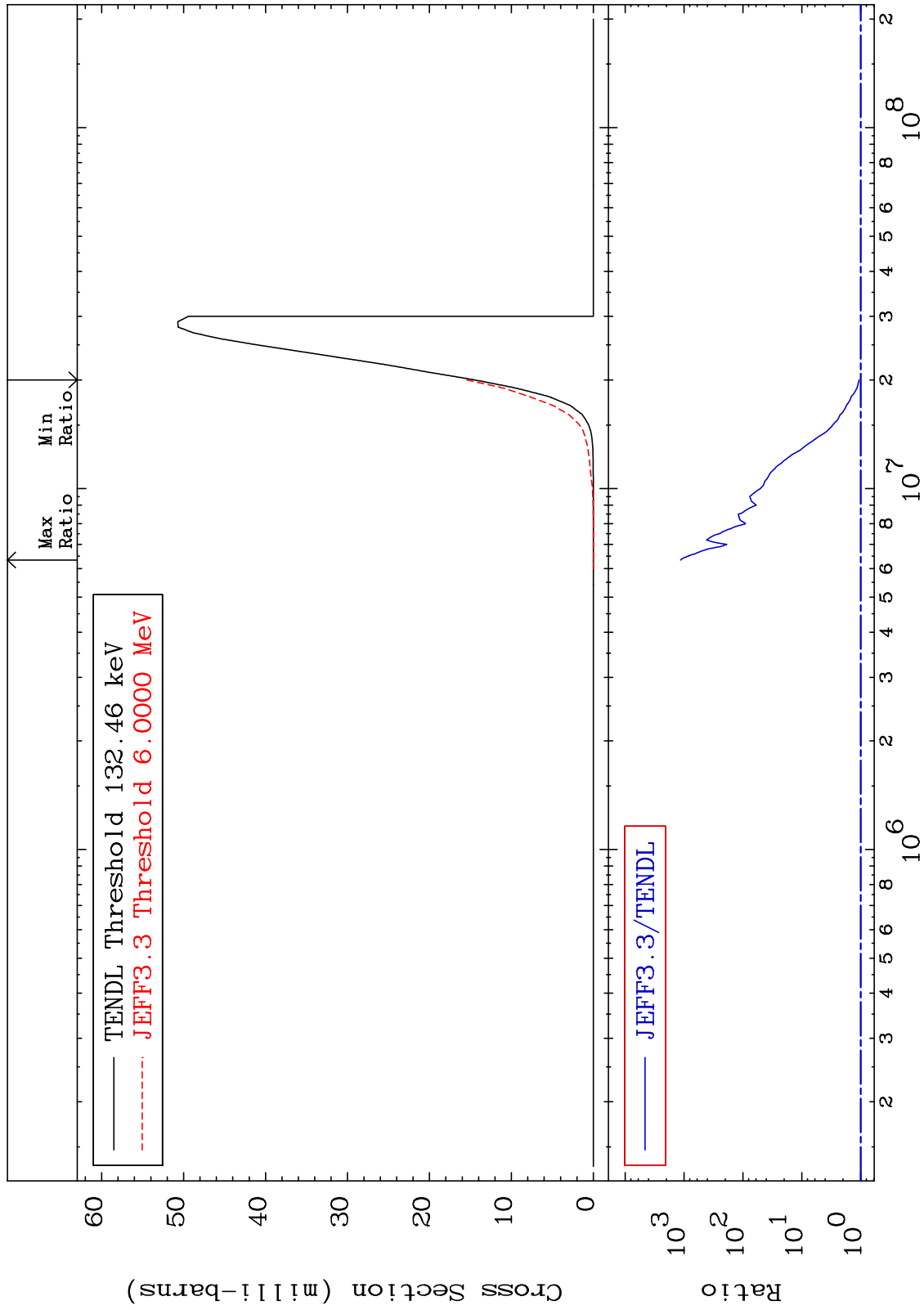
3 62-Sm-144

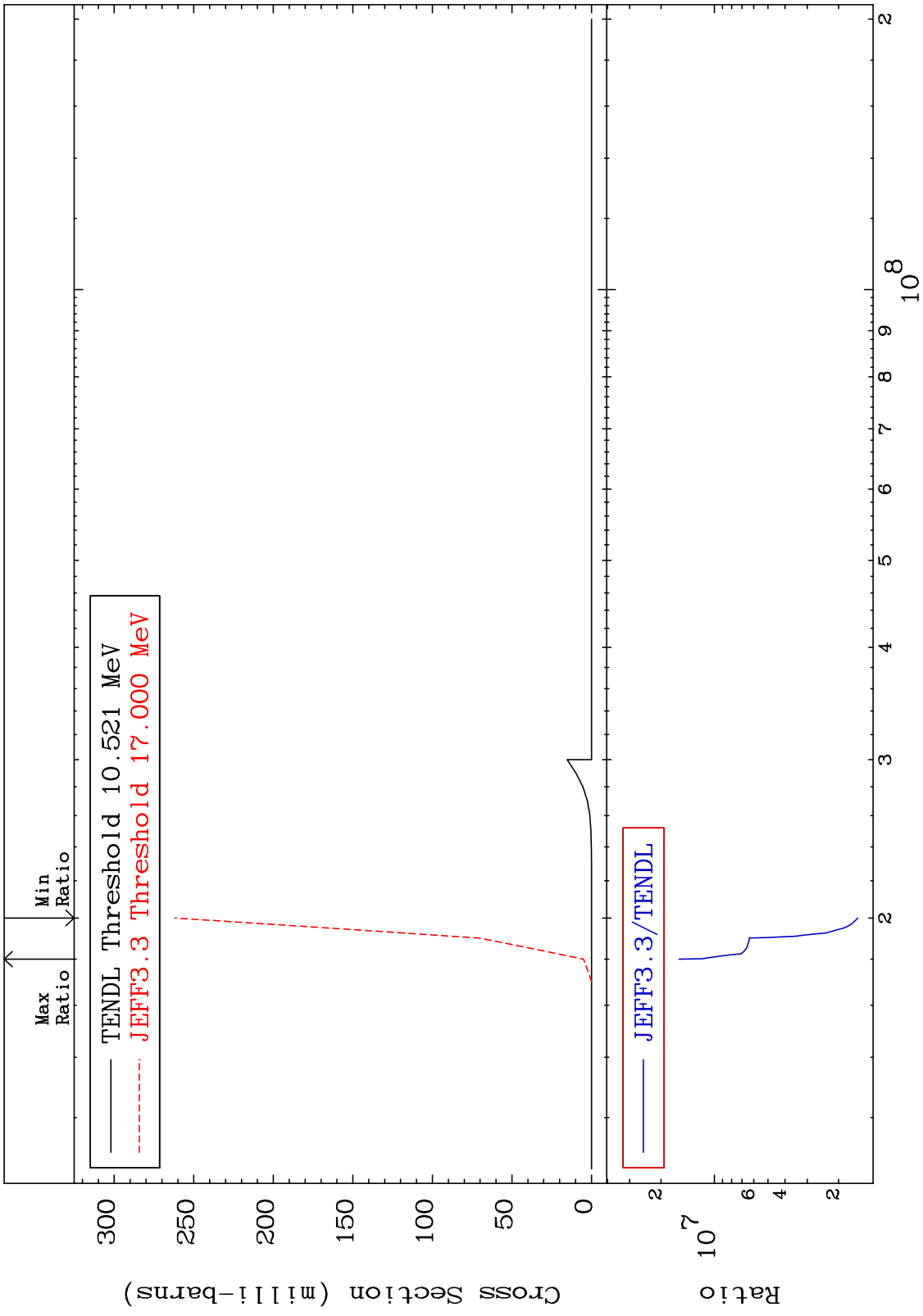
MAT 6225 (n,2n) Cross Section 62-Sm-144 -2.050 To 48.90 %



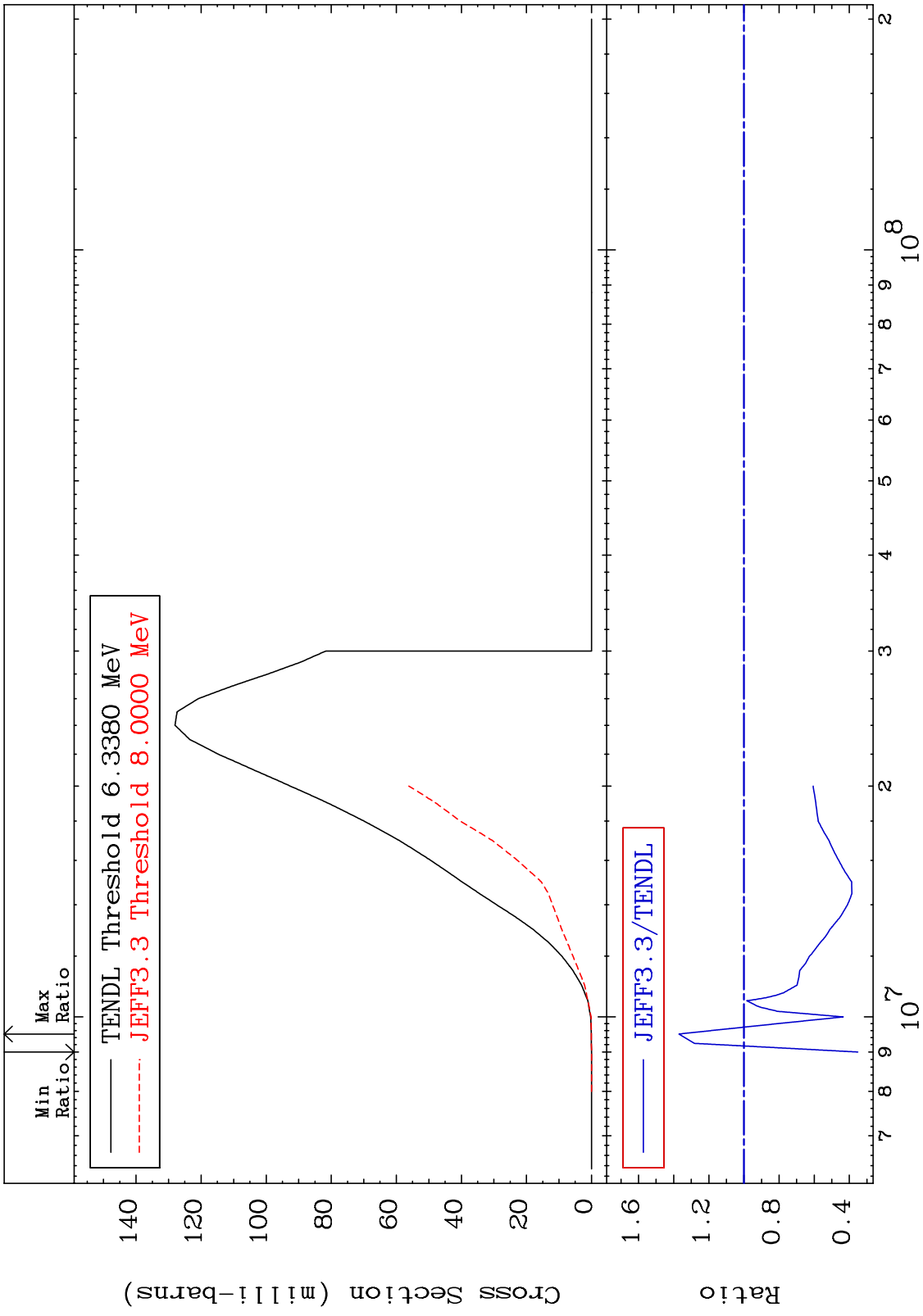
MAT 6225

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



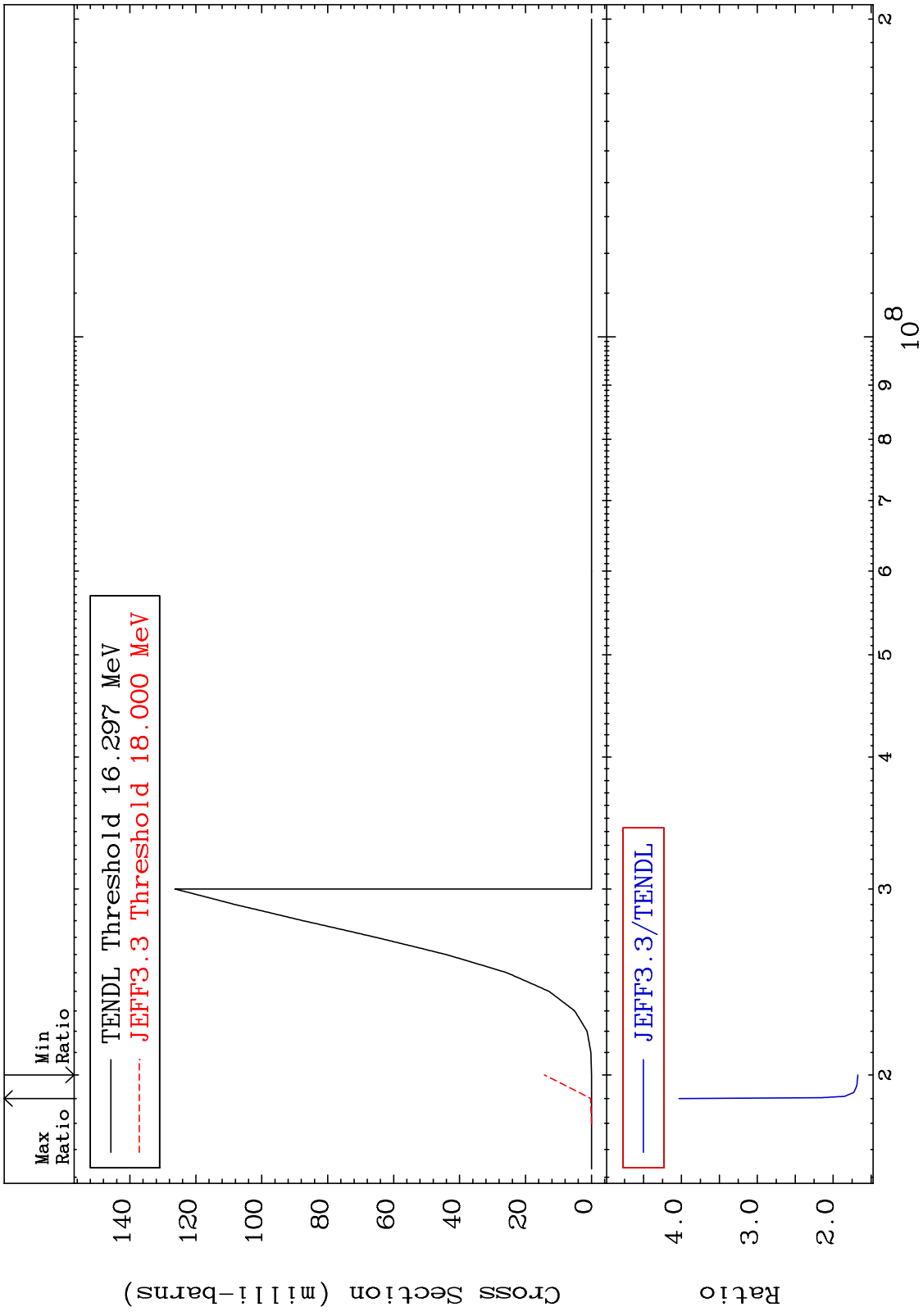


MAT 6225 (n, n') p 62-Sm-144  
 Cross Section -64.82 To 36.95 %

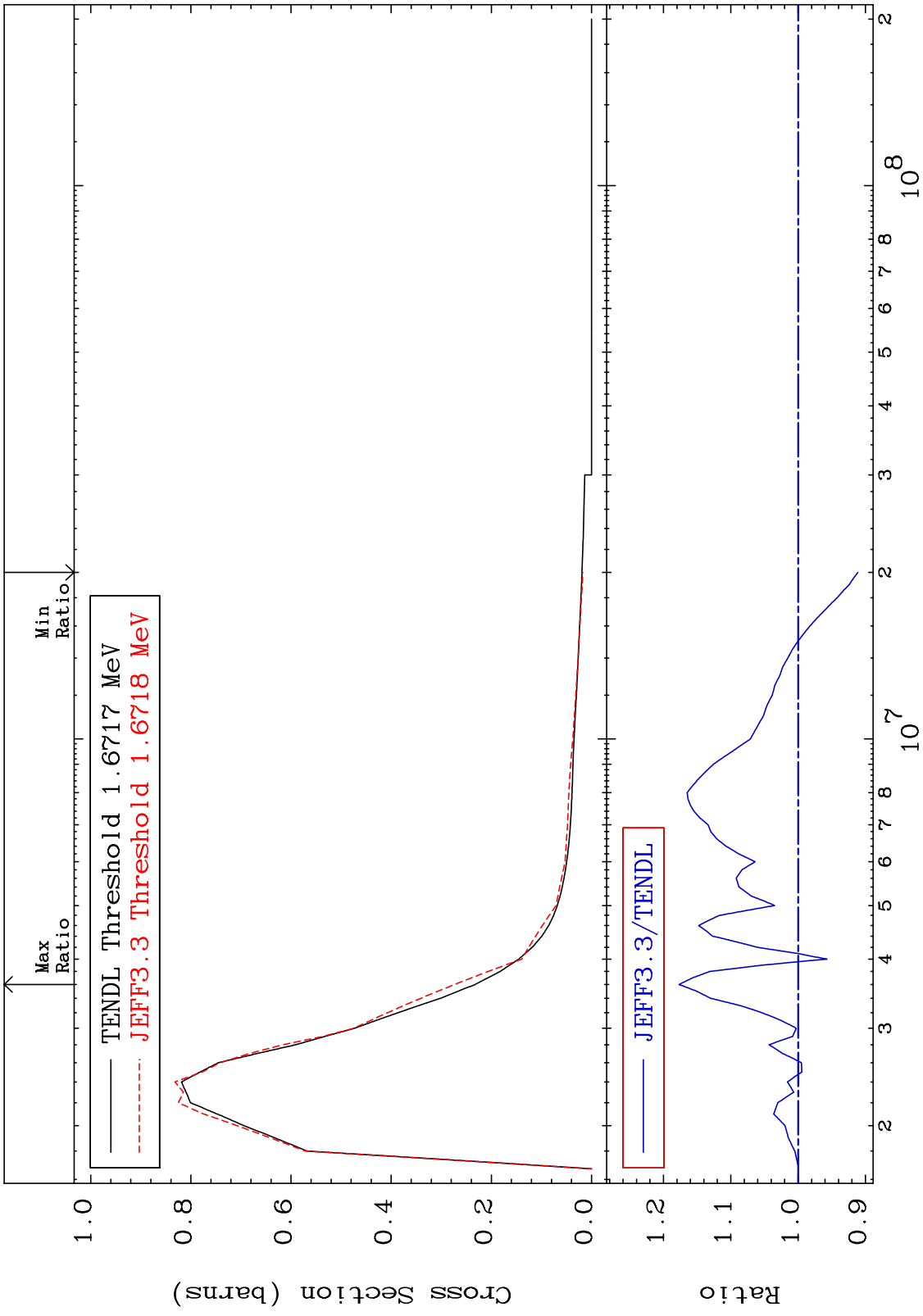


7 62-Sm-144

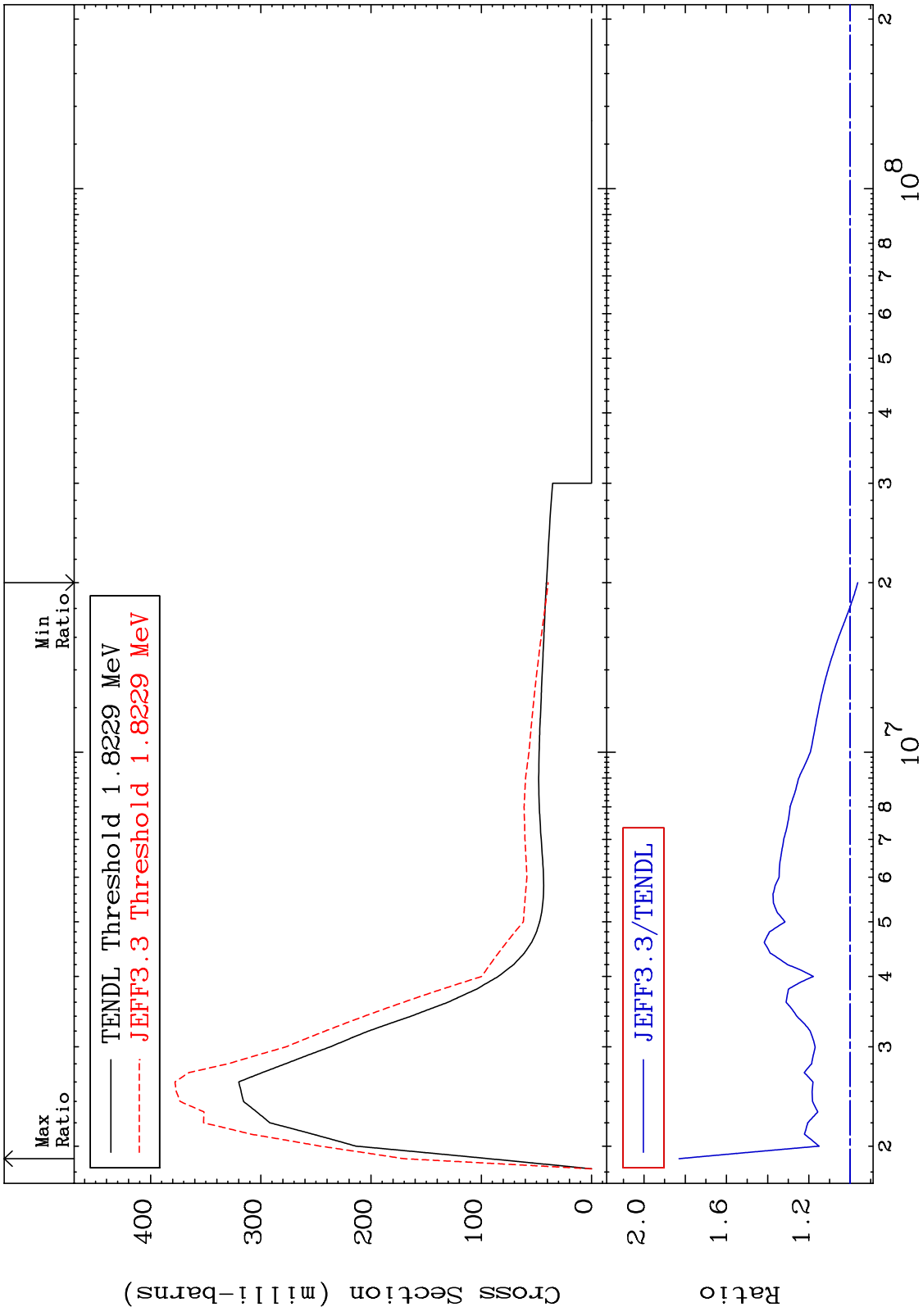




MAT 6225 MT= 51 (n,n') Level Cross Section 62-Sm-144 -8.869 To 17.69 %

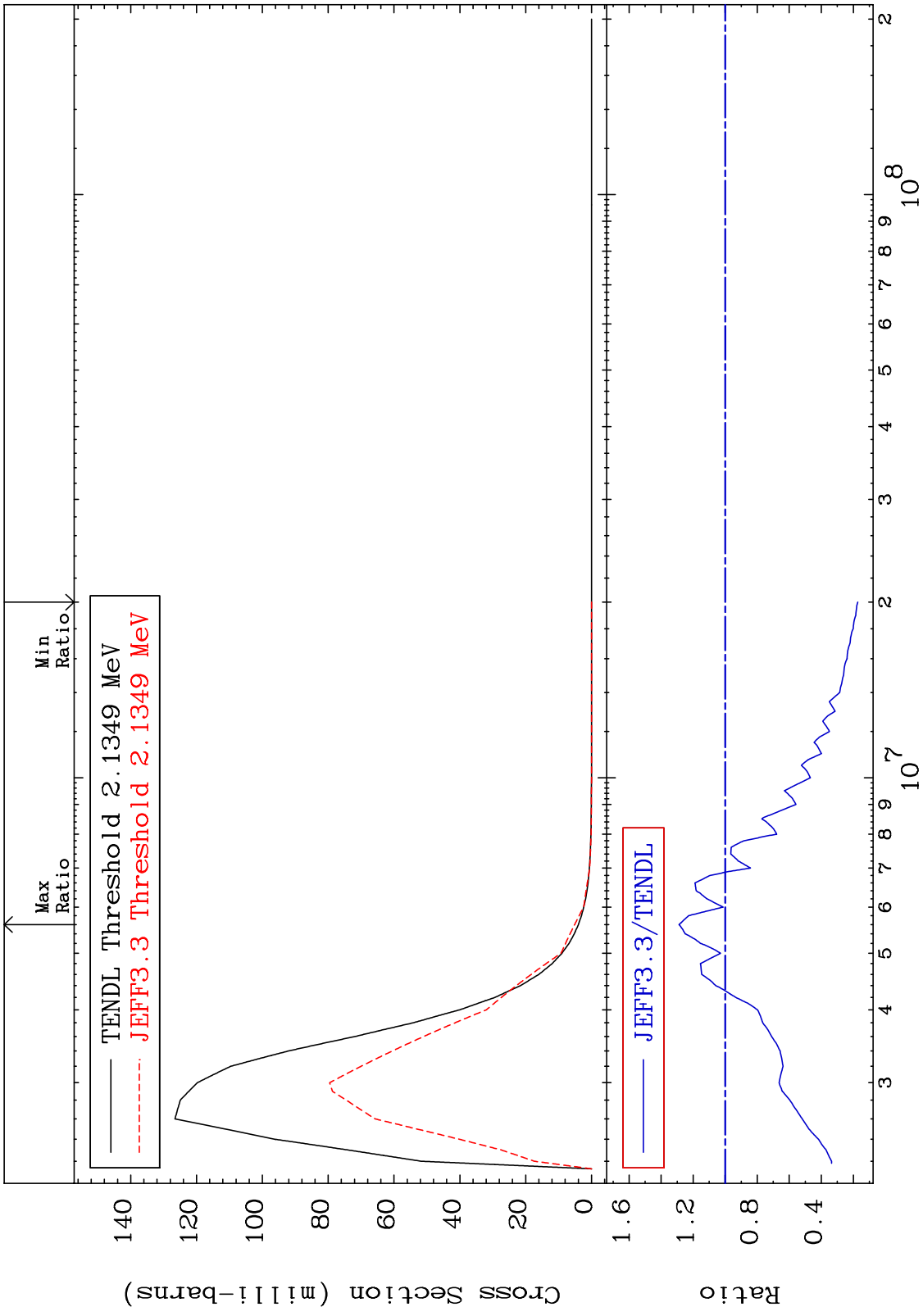


MAT 6225 MT= 52 (n,n') Level Cross Section 62-Sm-144 -3.728 To 83.02 %

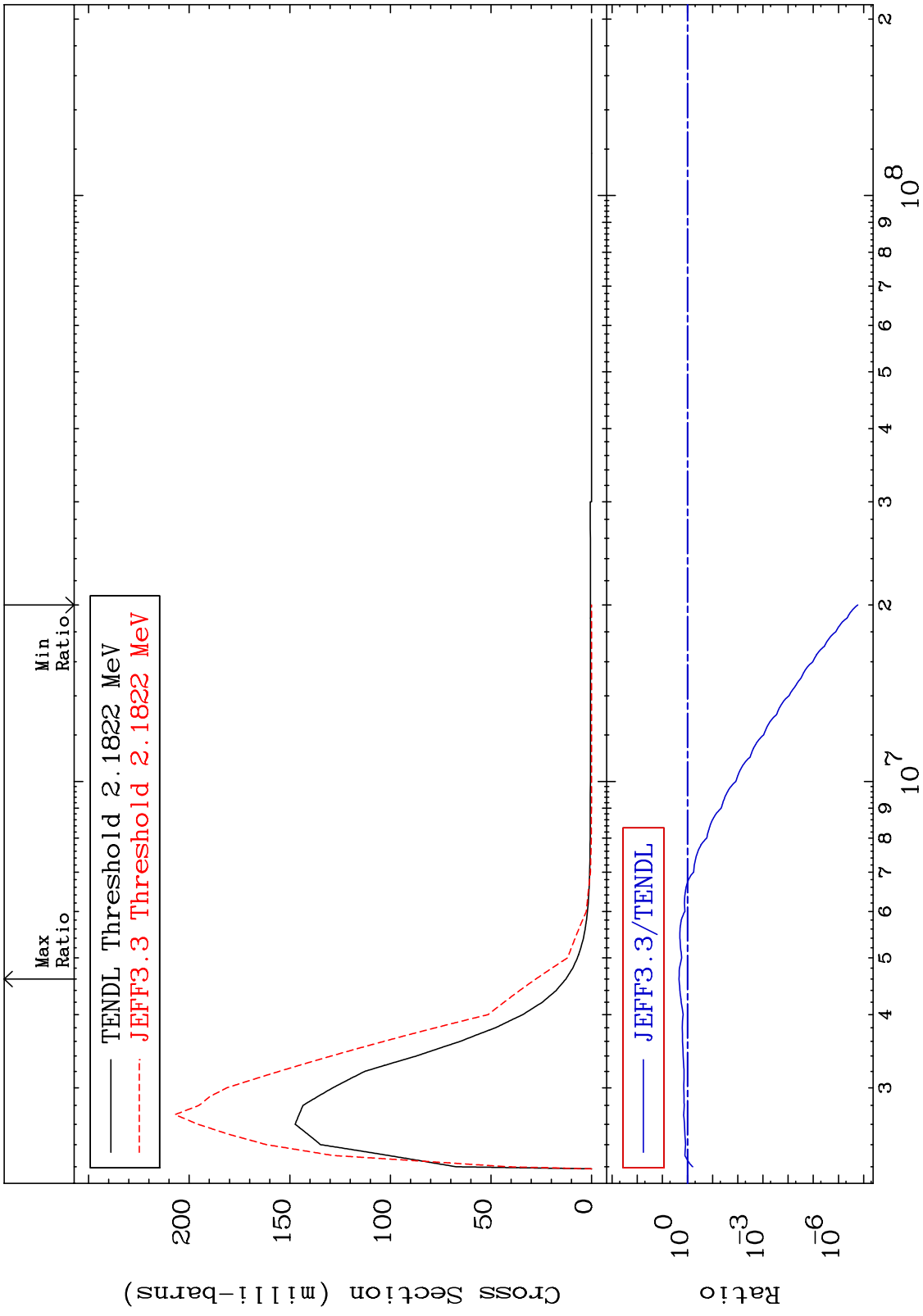


10 2 3 4 5 6 7 8 10<sup>7</sup> 2 3 4 5 6 7 8 10<sup>8</sup> 62-Sm-144

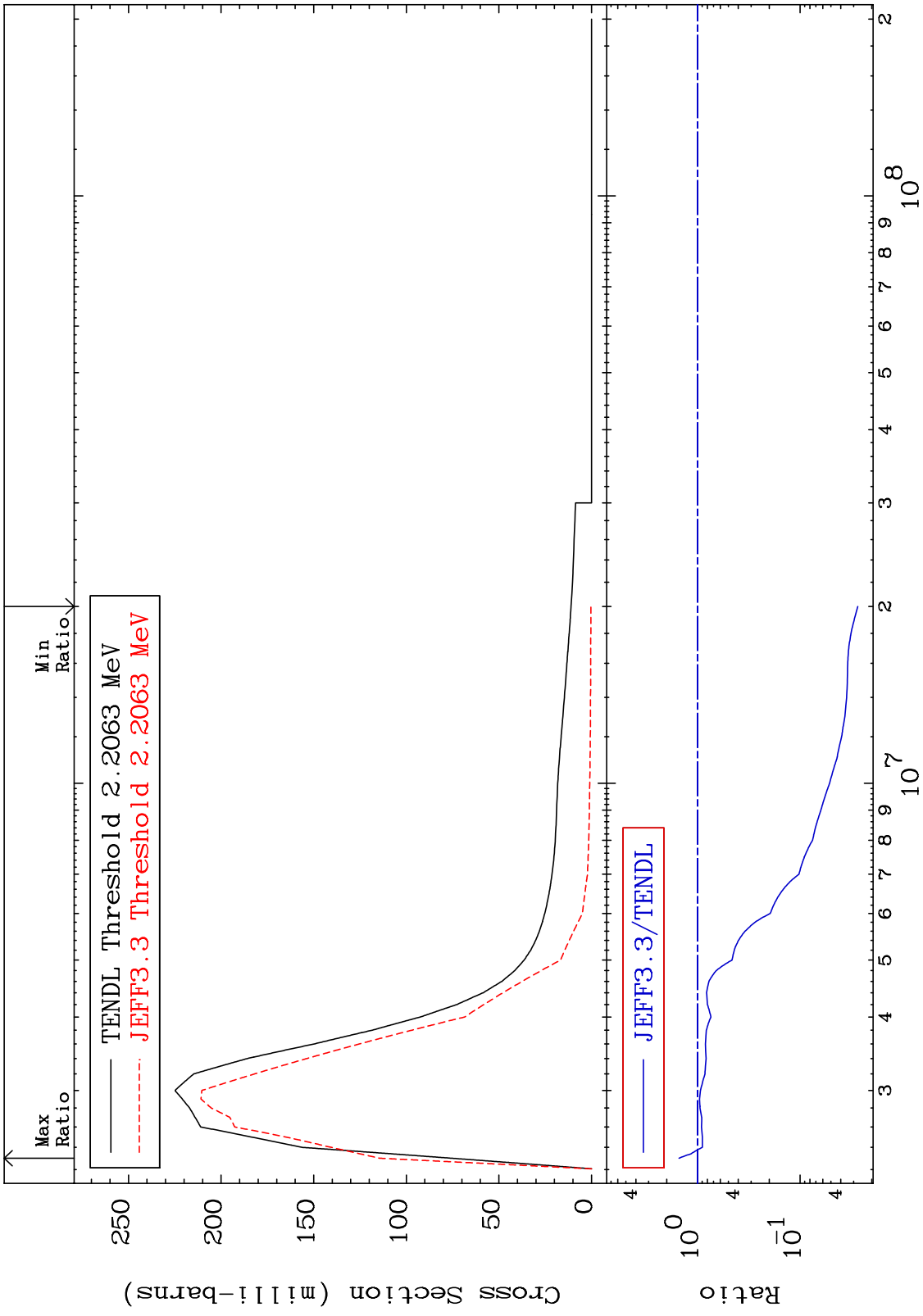
MAT 6225 MT= 53 (n,n') Level Cross Section 62-Sm-144 -82.83 To 28.83 %



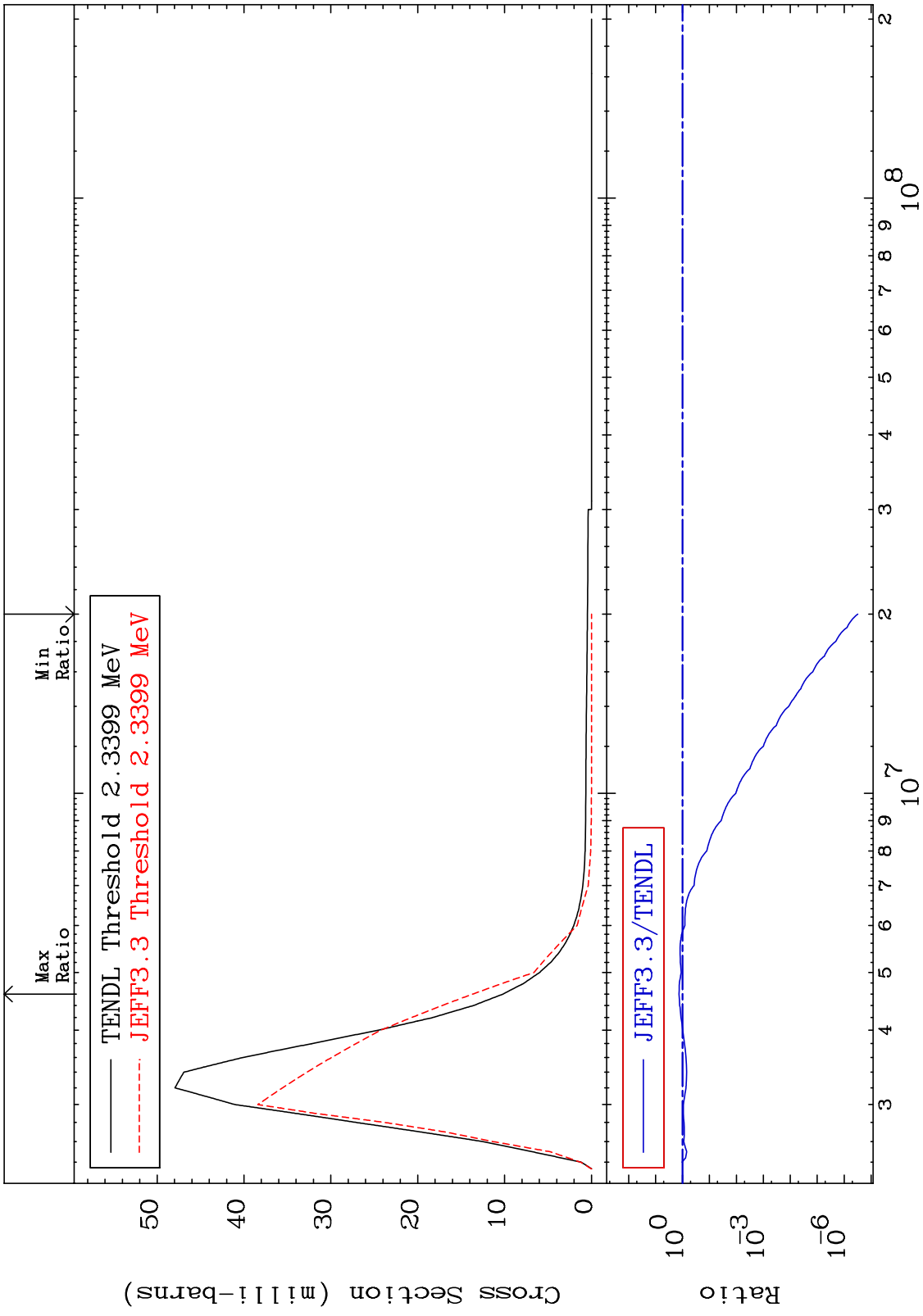
MAT 6225 MT= 54 (n,n') Level Cross Section 62-Sm-144  
 -100.0 To 117.6 %



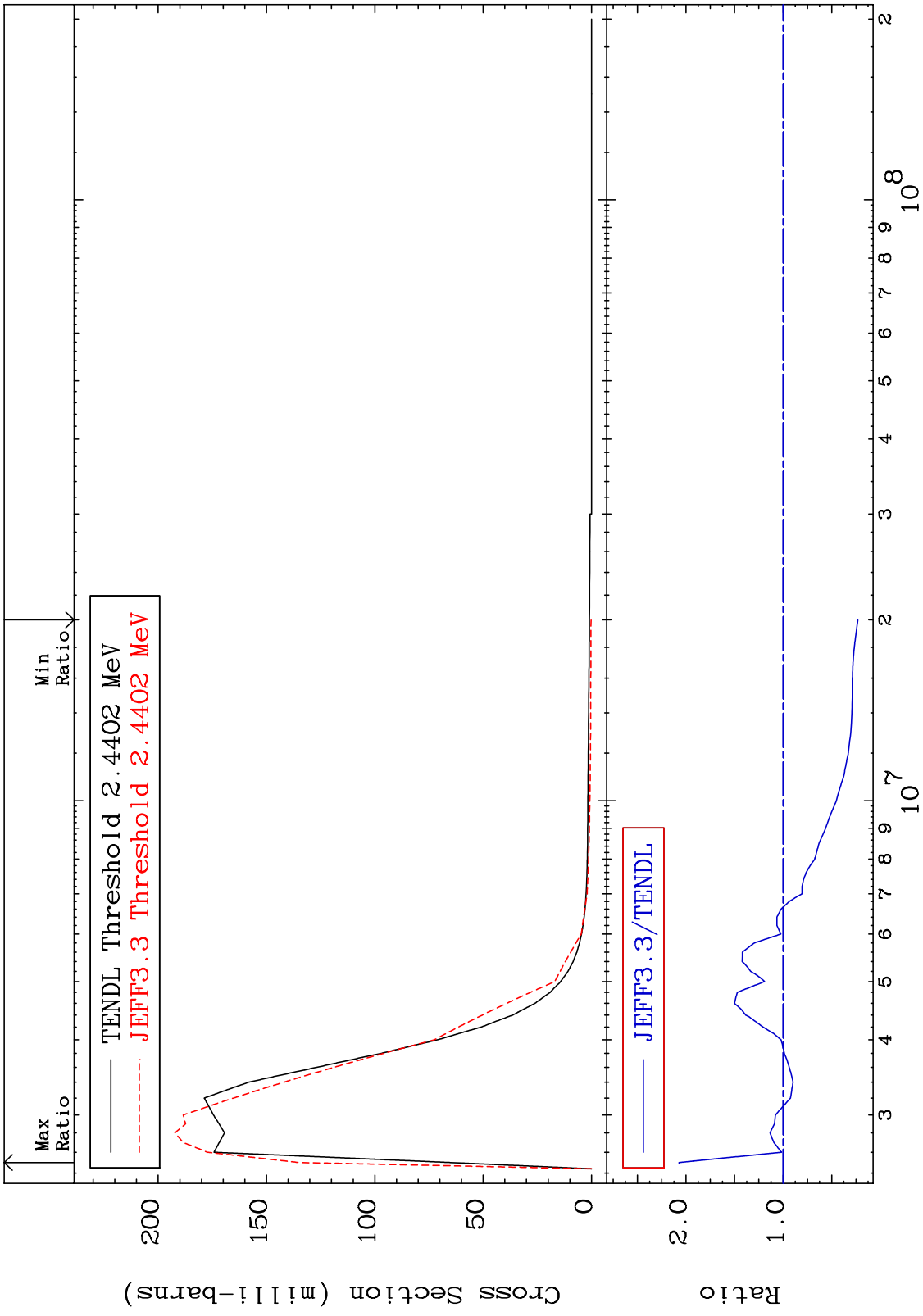
MAT 6225 MT= 55 (n,n') Level Cross Section 62-Sm-144 -97.27 To 51.46 %



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

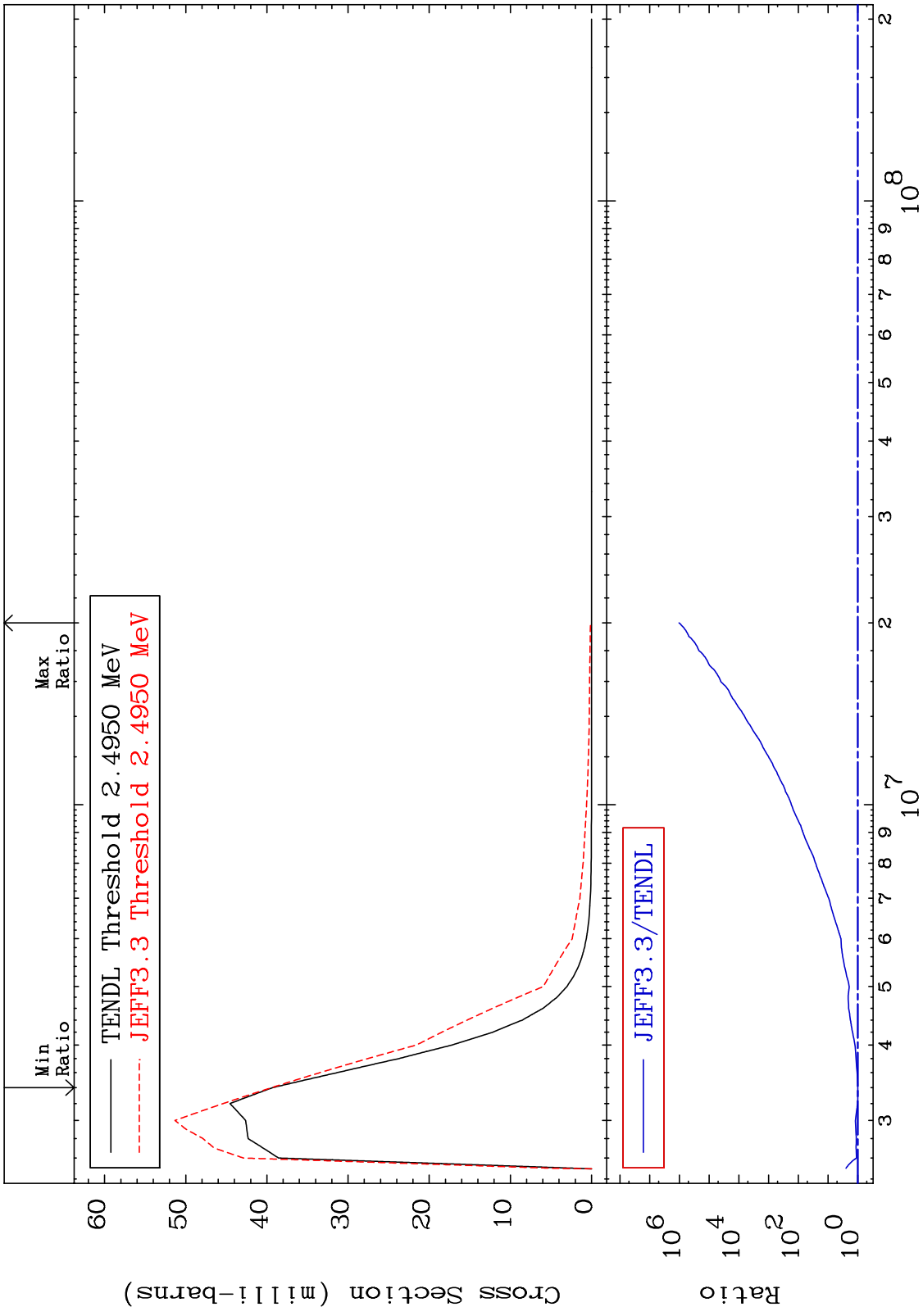


MAT 6225 MT= 57 (n,n') Level Cross Section 62-Sm-144 -76.91 To 107.2 %

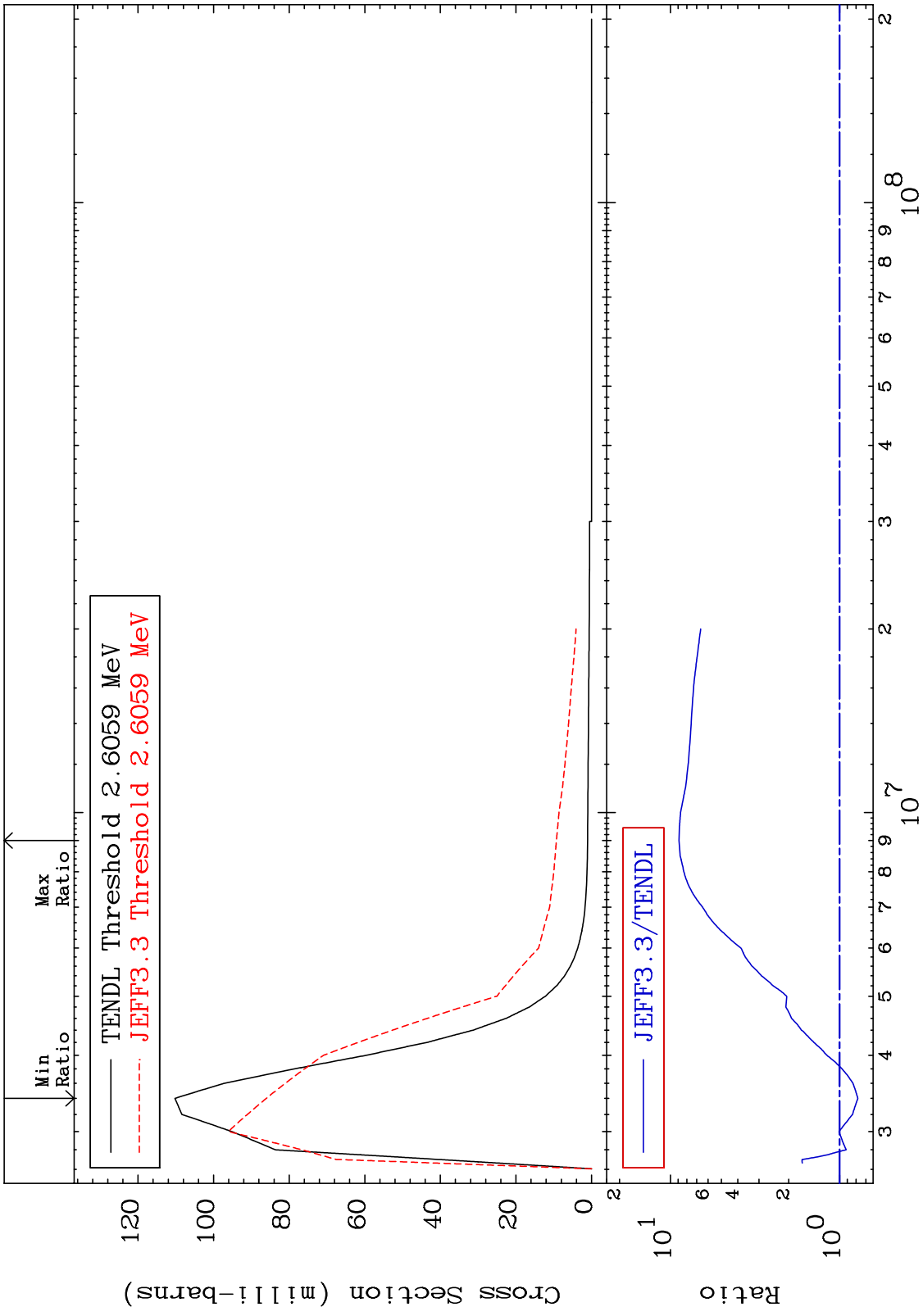




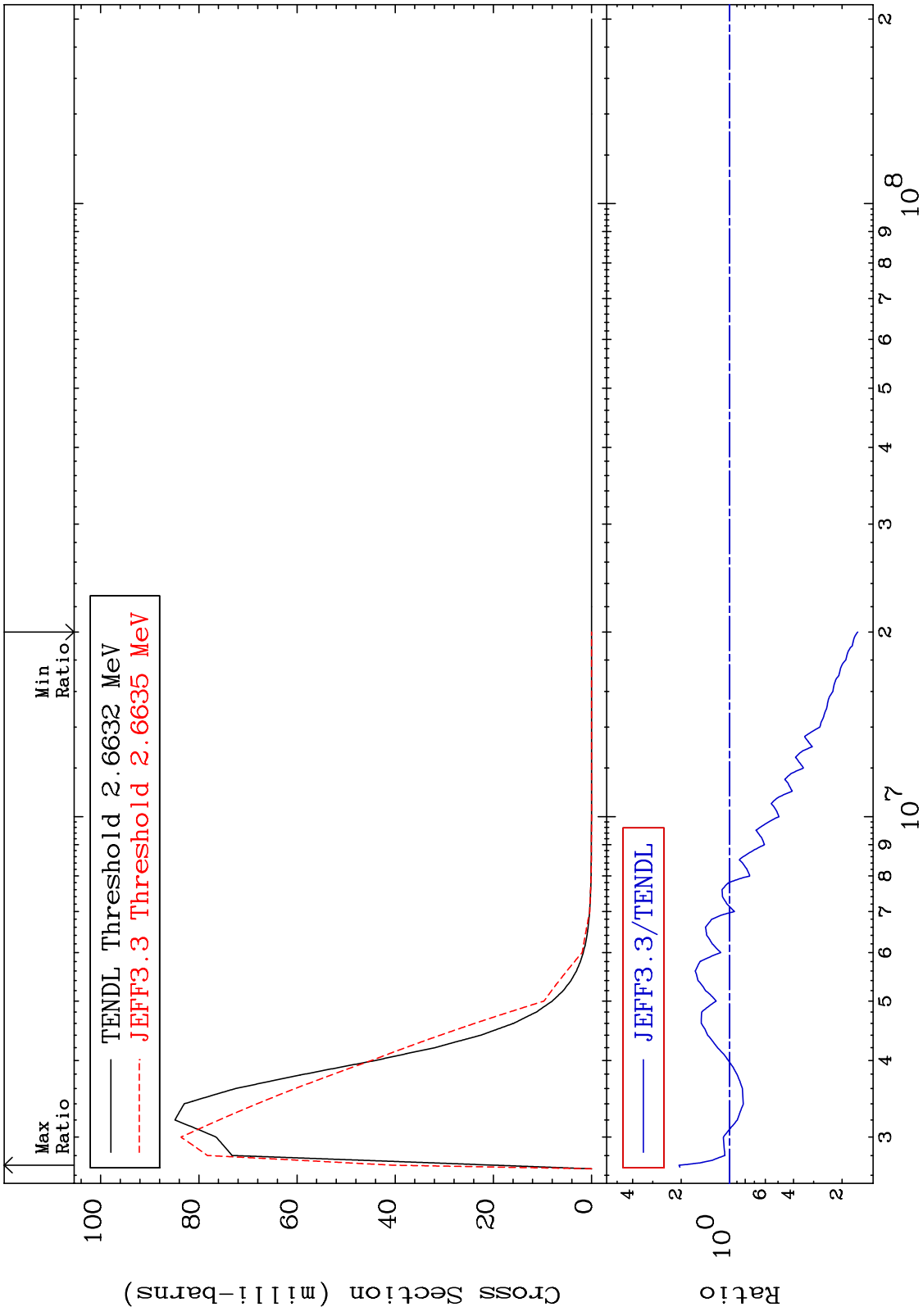
MAT 6225 MT= 58 (n,n') Level Cross Section 62-Sm-144 To 9999. %  
 0.329



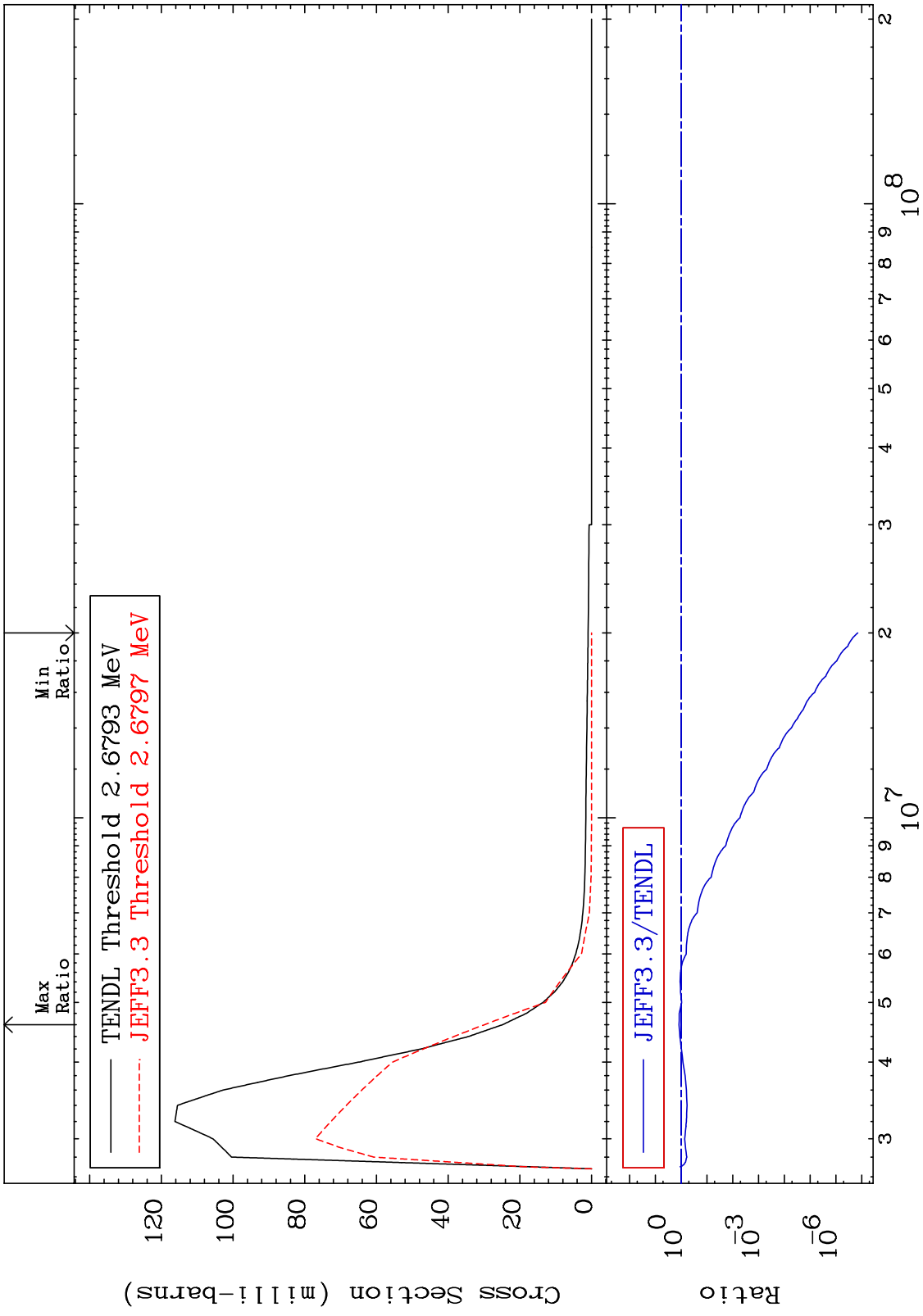
MAT 6225 MT= 59 (n,n') Level Cross Section 62-Sm-144 -21.95 To 789.7 %



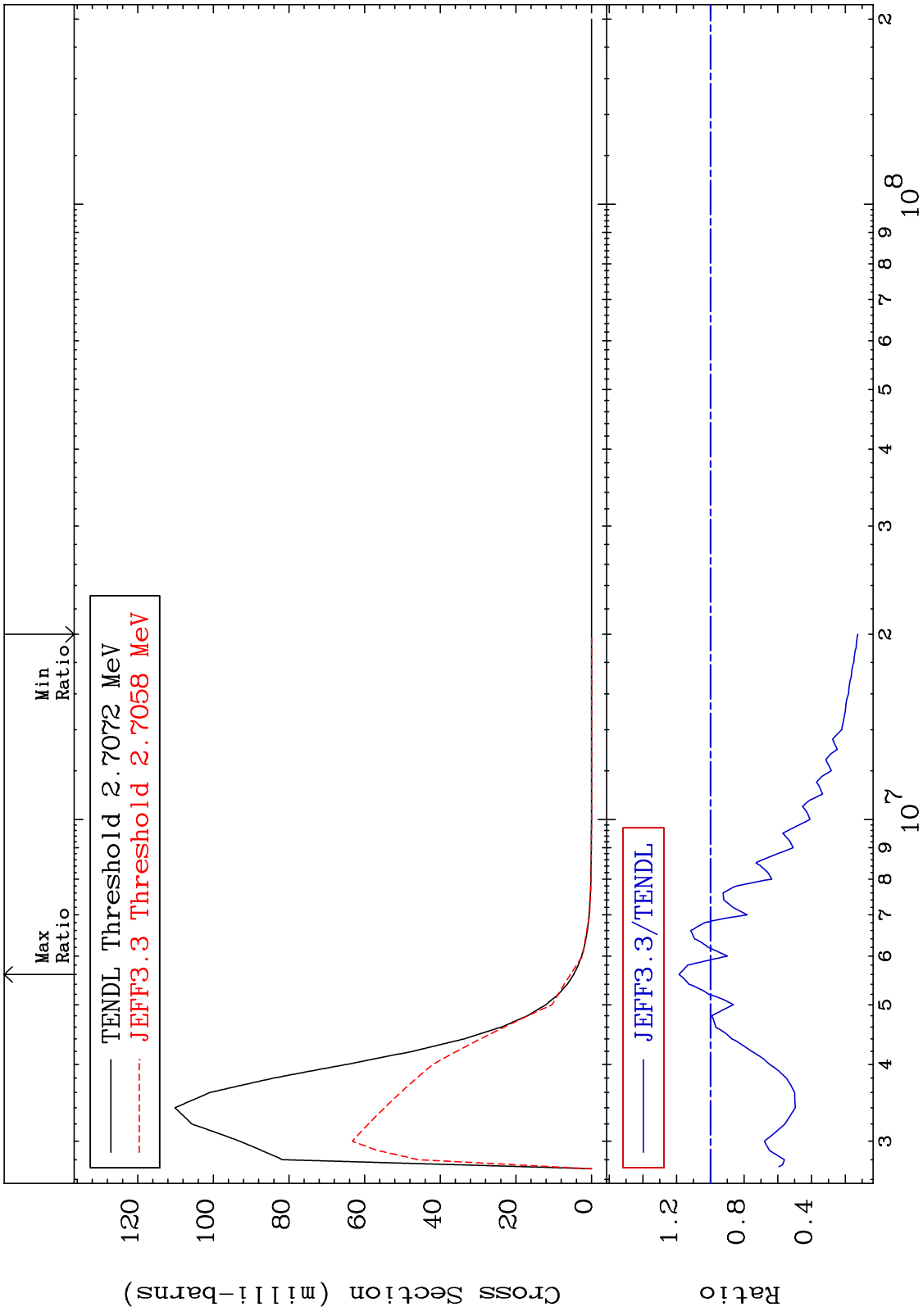
MAT 6225 MT= 60 (n,n') Level Cross Section 62-Sm-144 -84.05 To 106.0 %



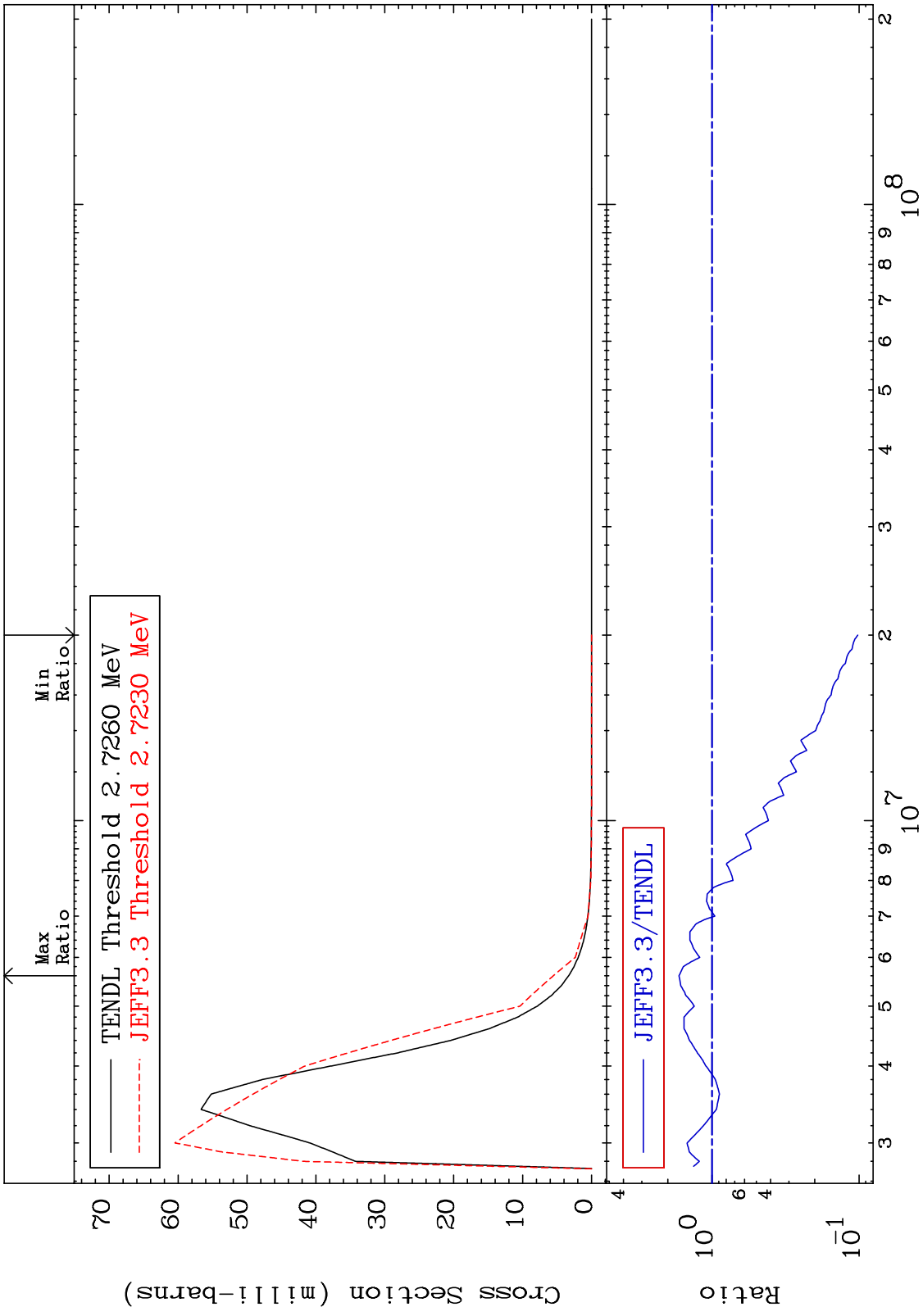
MAT 6225 MT= 61 (n,n') Level Cross Section 62-Sm-144  
 -100.0 To 20.47 %



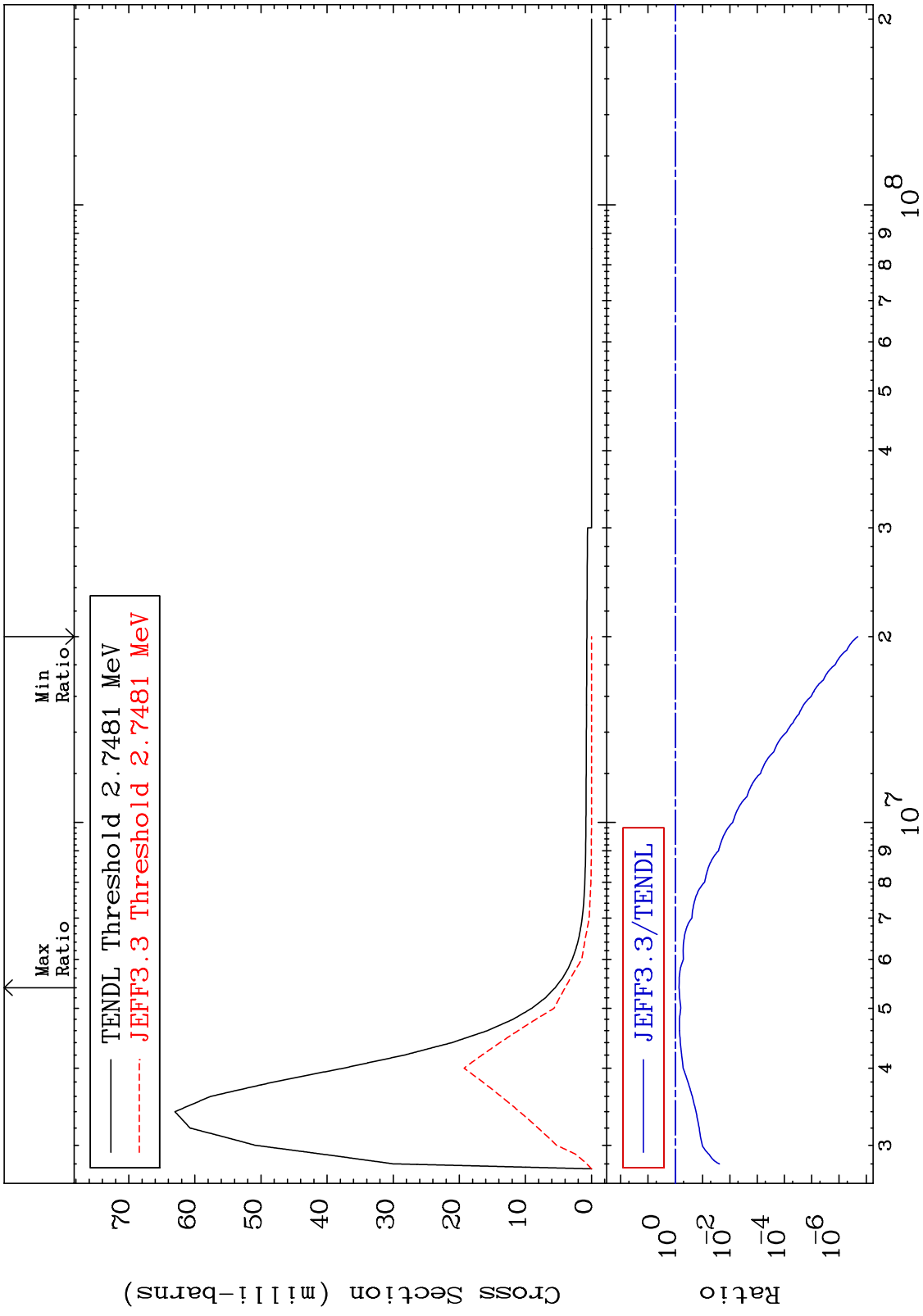
MAT 6225 MT= 62 (n,n') Level Cross Section 62-Sm-144 -87.46 To 18.58 %



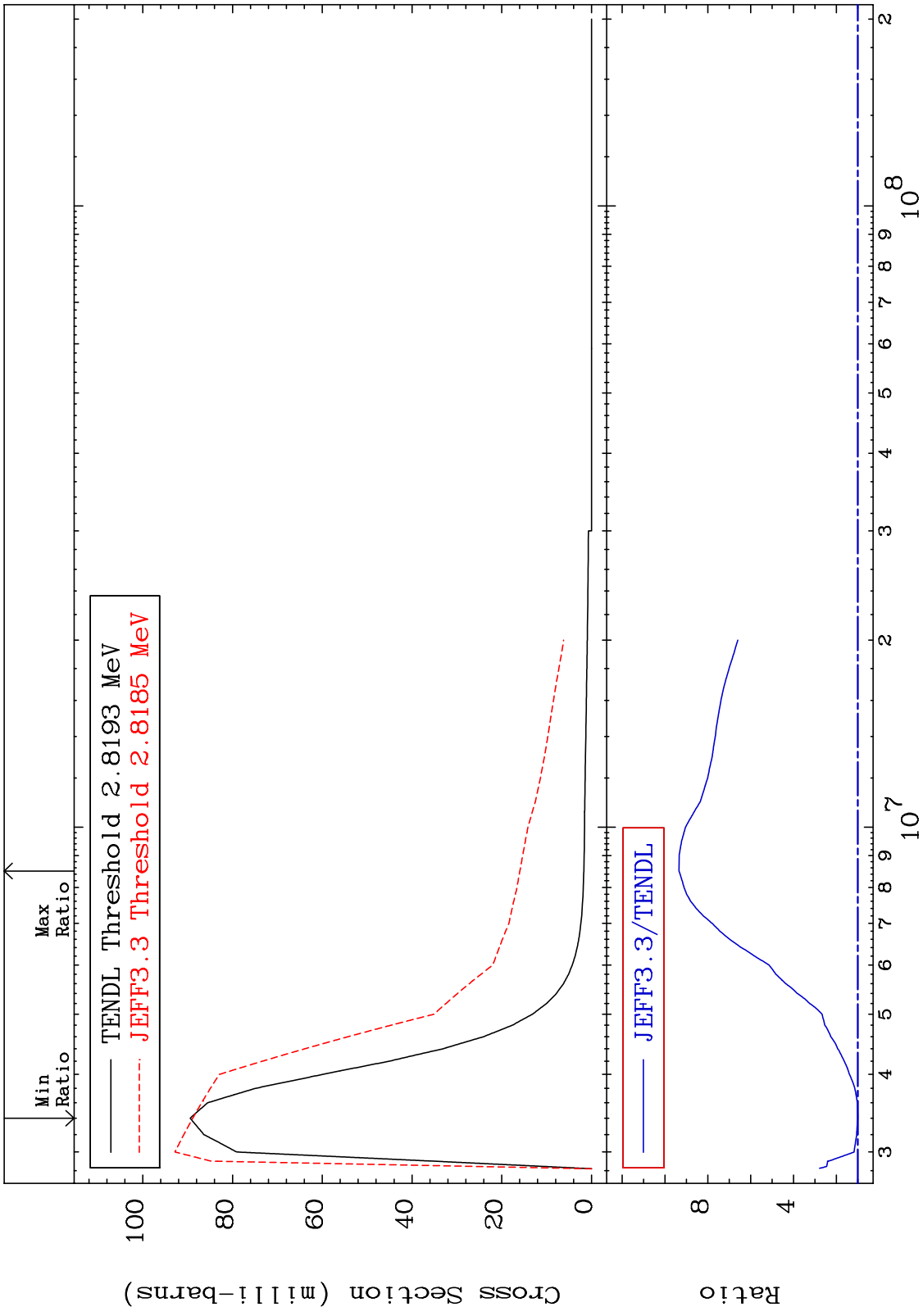
MAT 6225 MT= 63 (n,n') Level Cross Section 62-Sm-144 -89.82 To 67.61 %



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

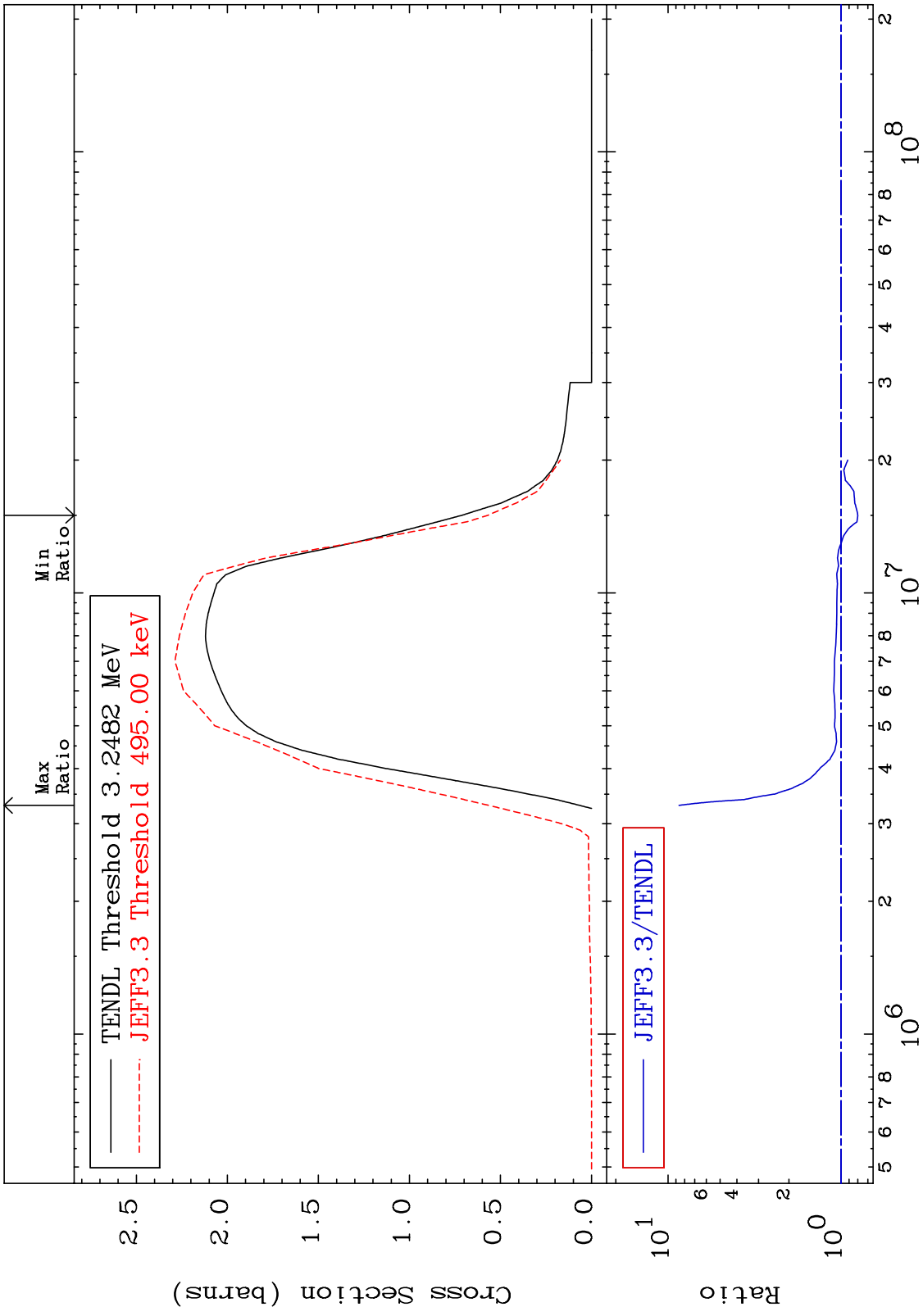


MAT 6225 MT= 65 (n,n') Level Cross Section 62-Sm-144 -0.645 To 834.2 %





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



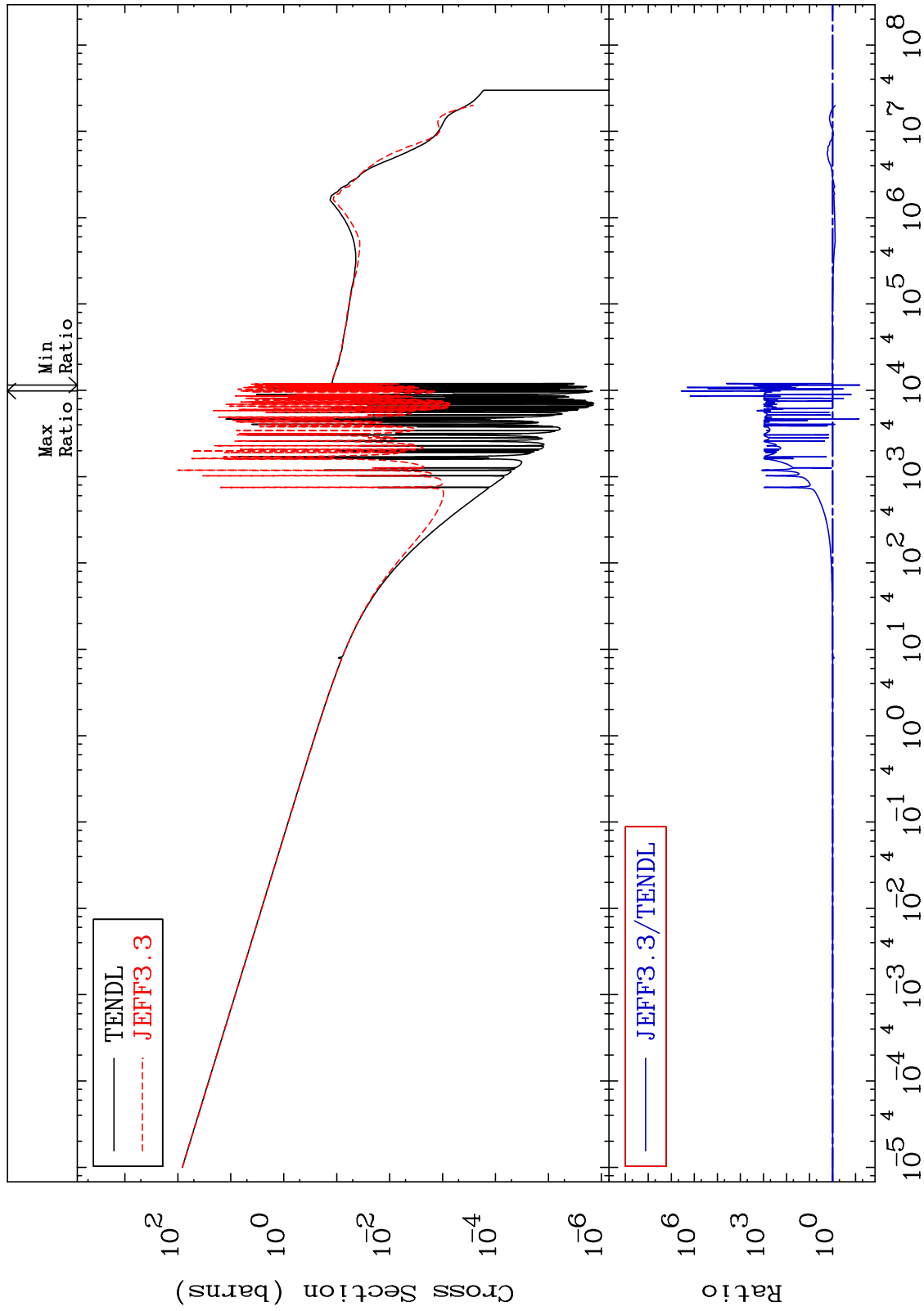
MAT 6225

(n,  $\gamma$ )

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  
JEFF3.3 Threshold 1.4000 MeV

Cross Section (milli-barns)

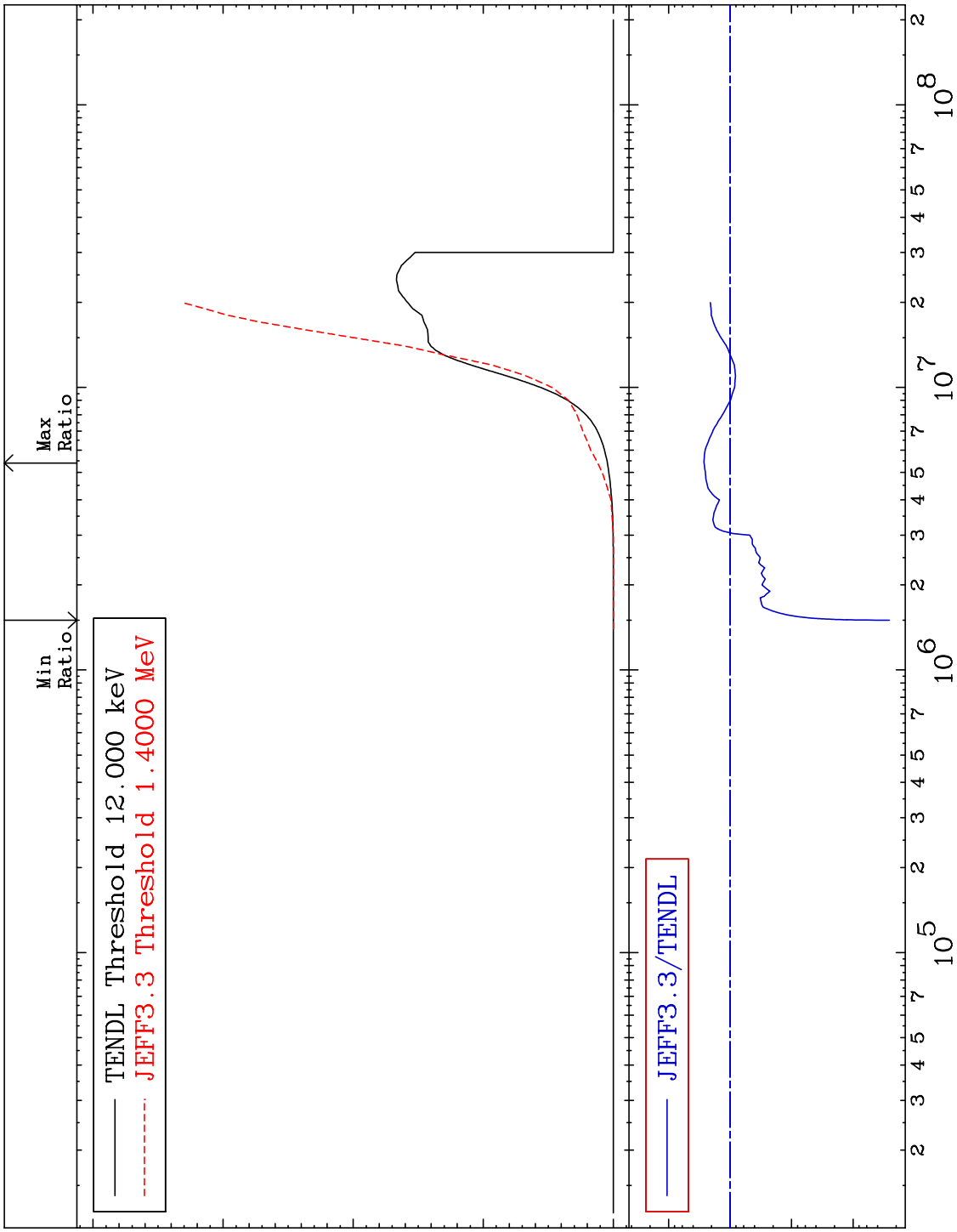
JEFF3.3/TENDL

Ratio

26

Incident Energy (eV)

62-Sm-144



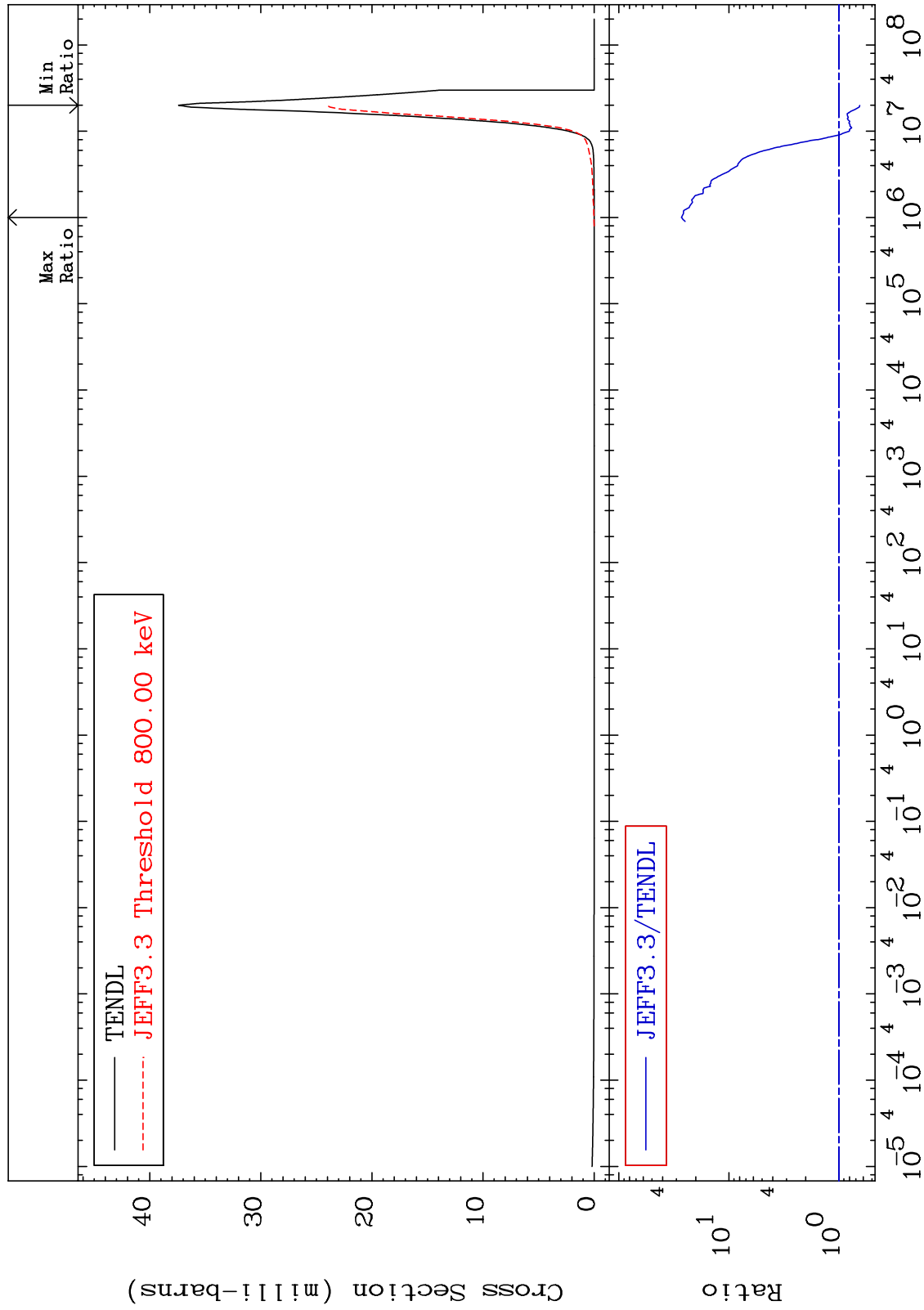
MAT 6225

(n,  $\alpha$ )

62-Sm-144

Cross Section

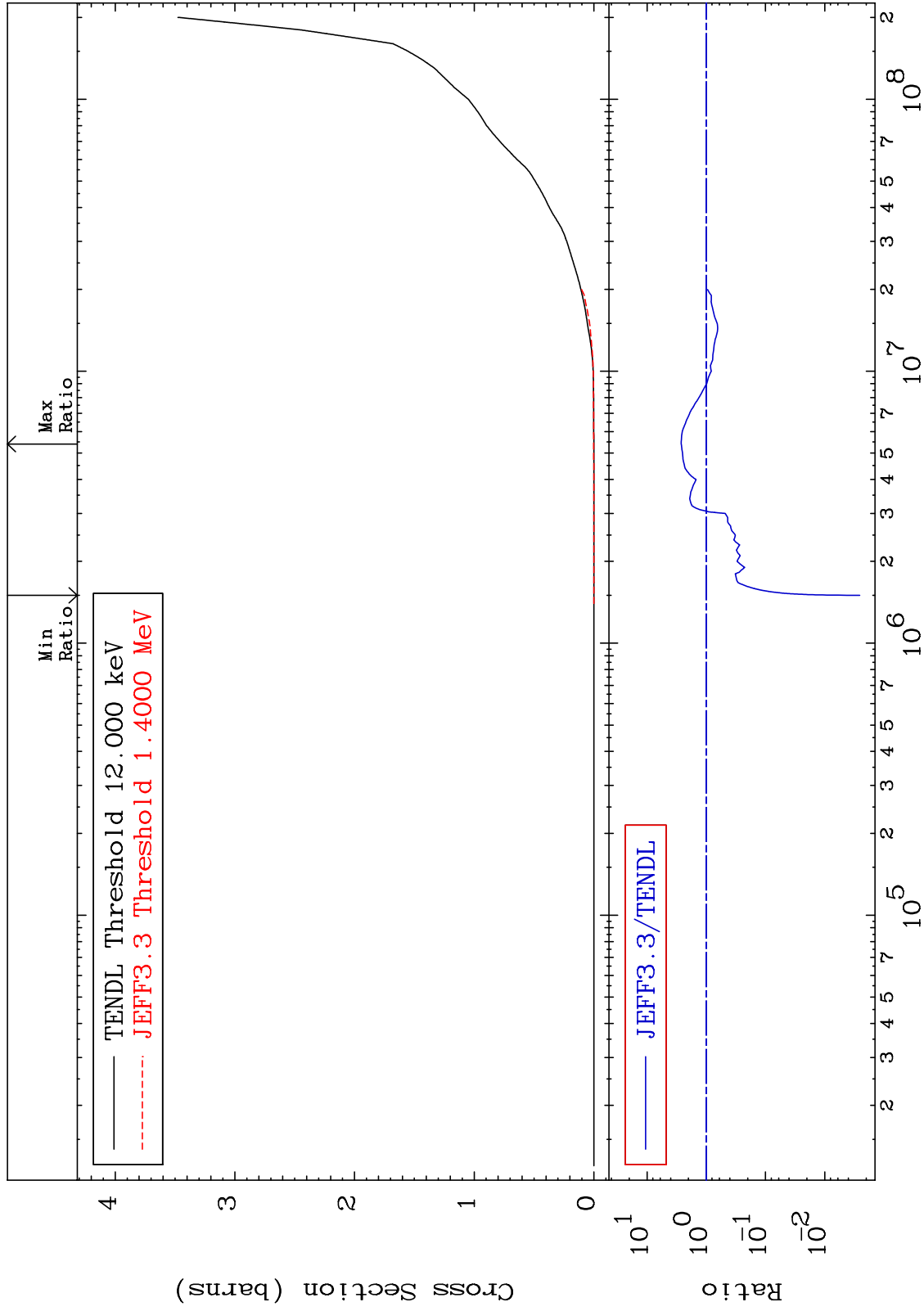
-35.49 To 2600. %



MAT 6225

Hydrogen Production  
Cross Section

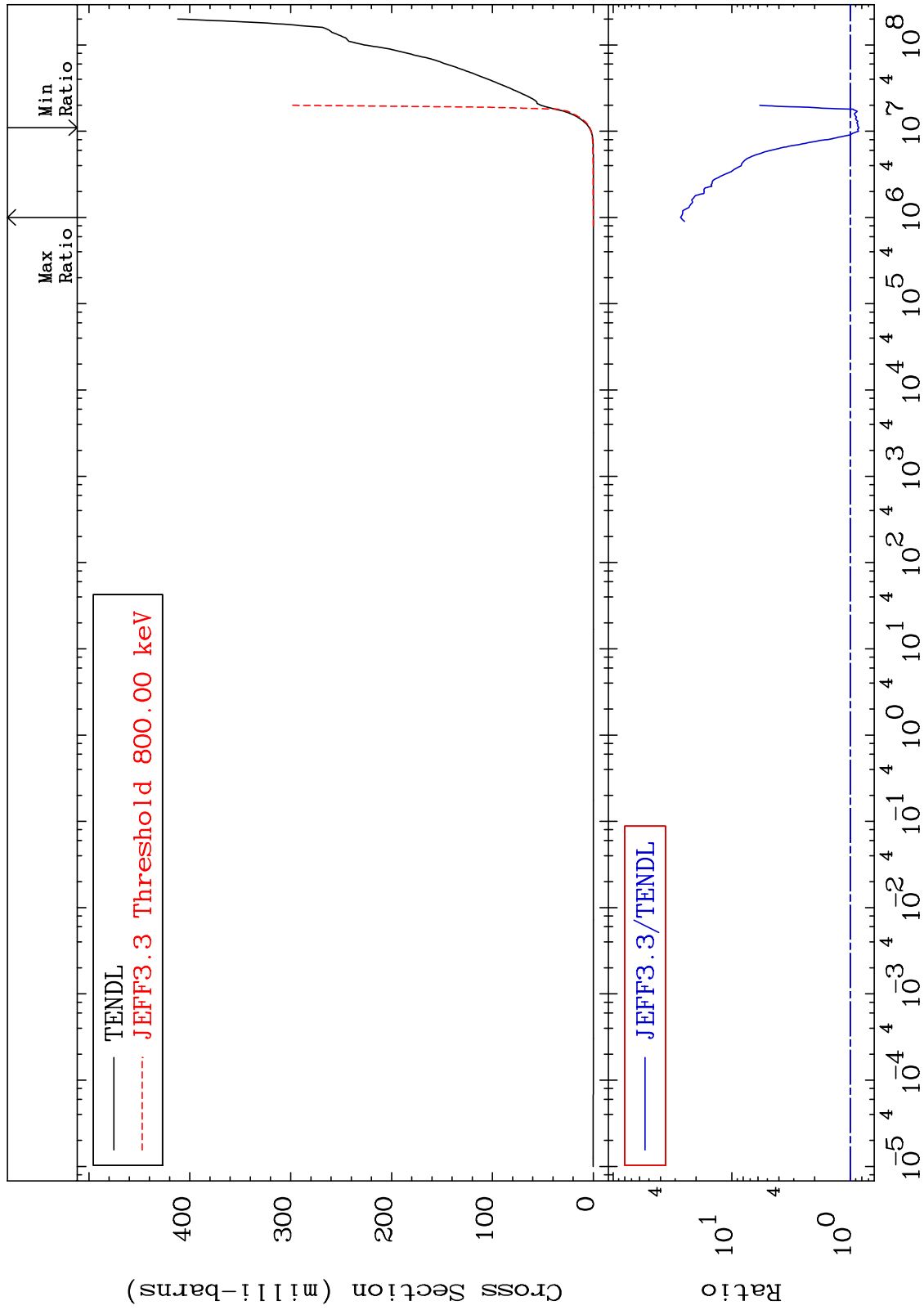
62-Sm-144  
-99.74 To 164.9 %



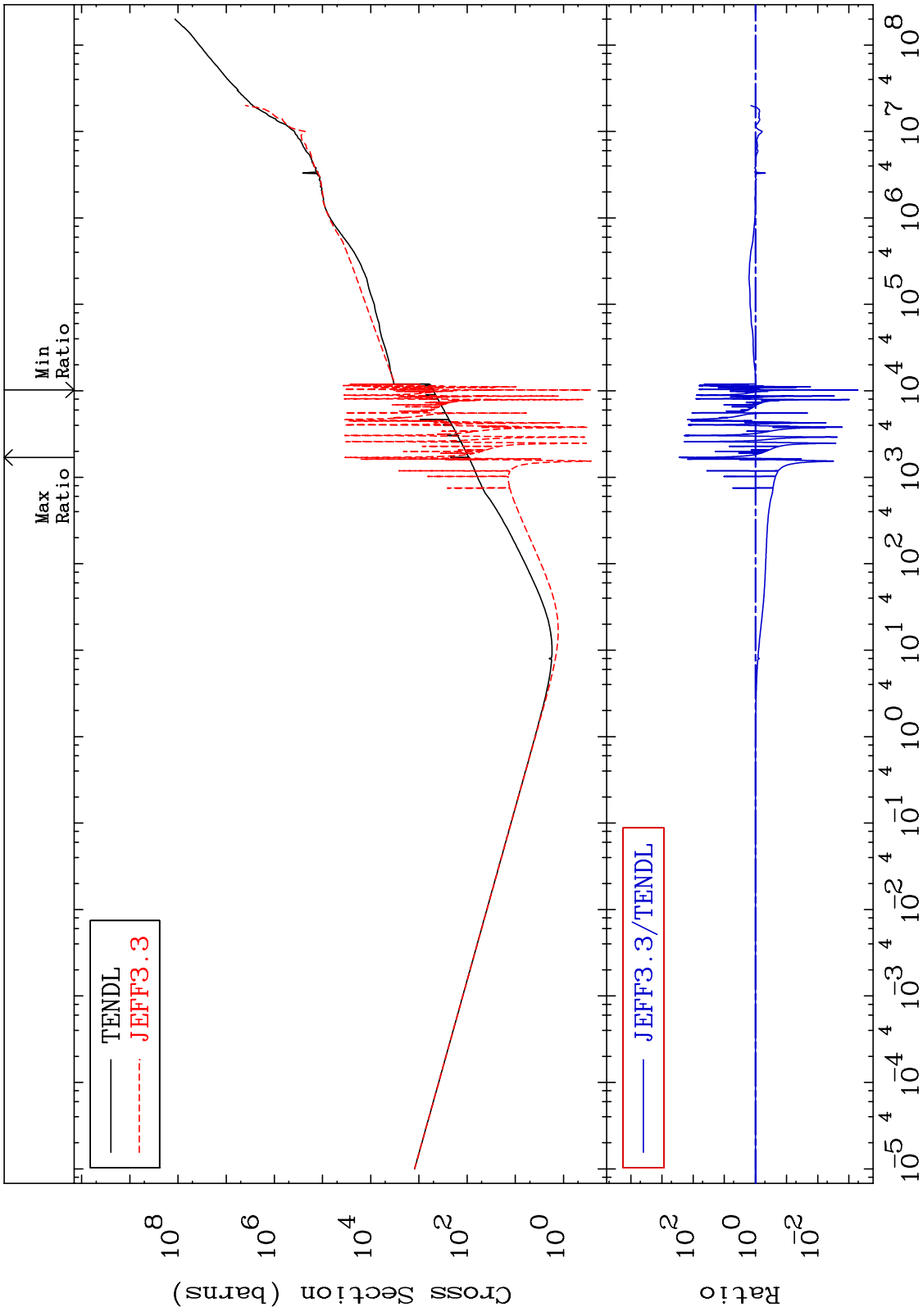
MAT 6225

He-4 Production  
Cross Section

62-Sm-144  
-15.63 To 2600. %



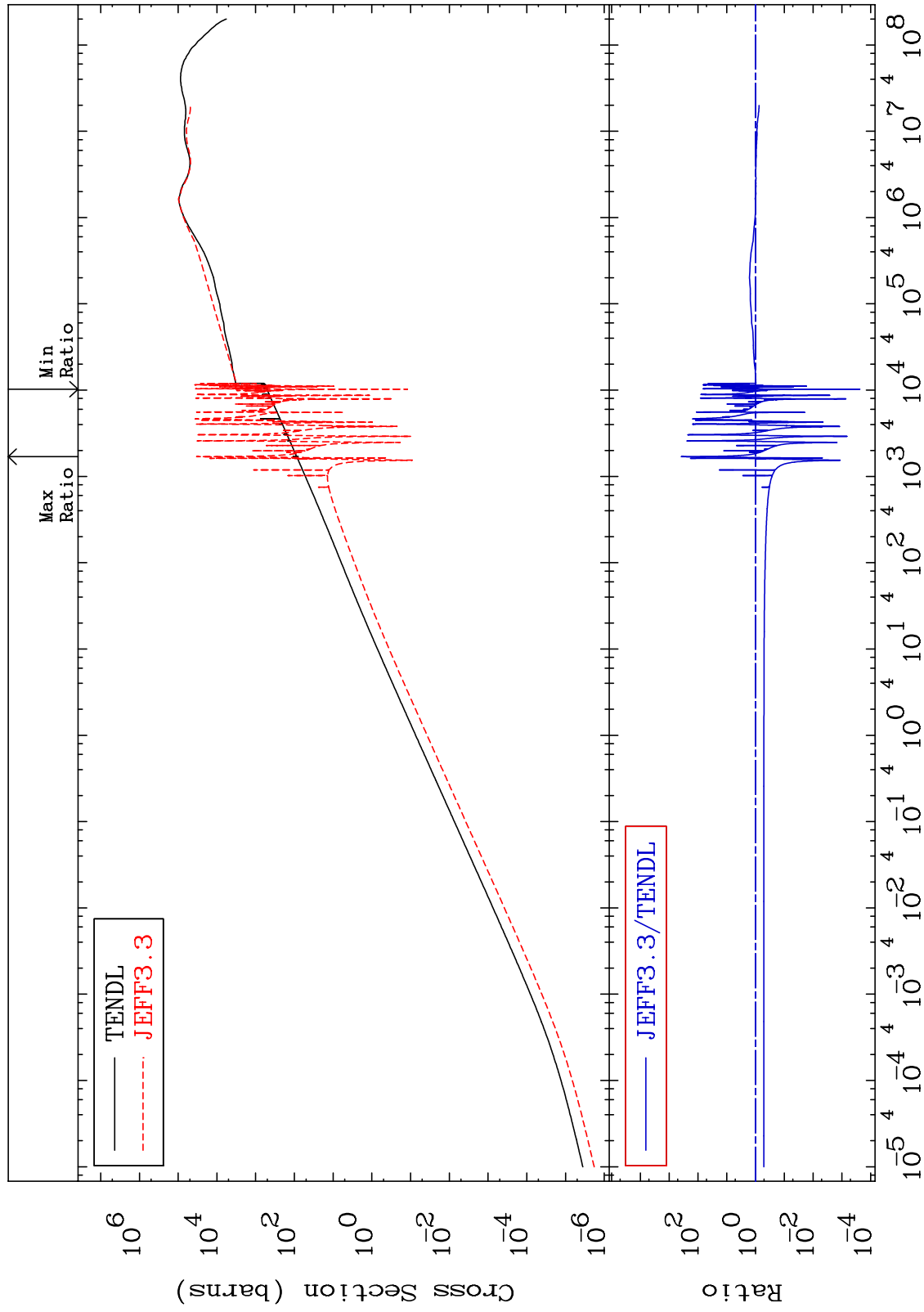
MAT 6225      Kerma total (eV-barns)  
 Cross Section      62-Sm-144  
 -99.95 To 9999. %



MAT 6225

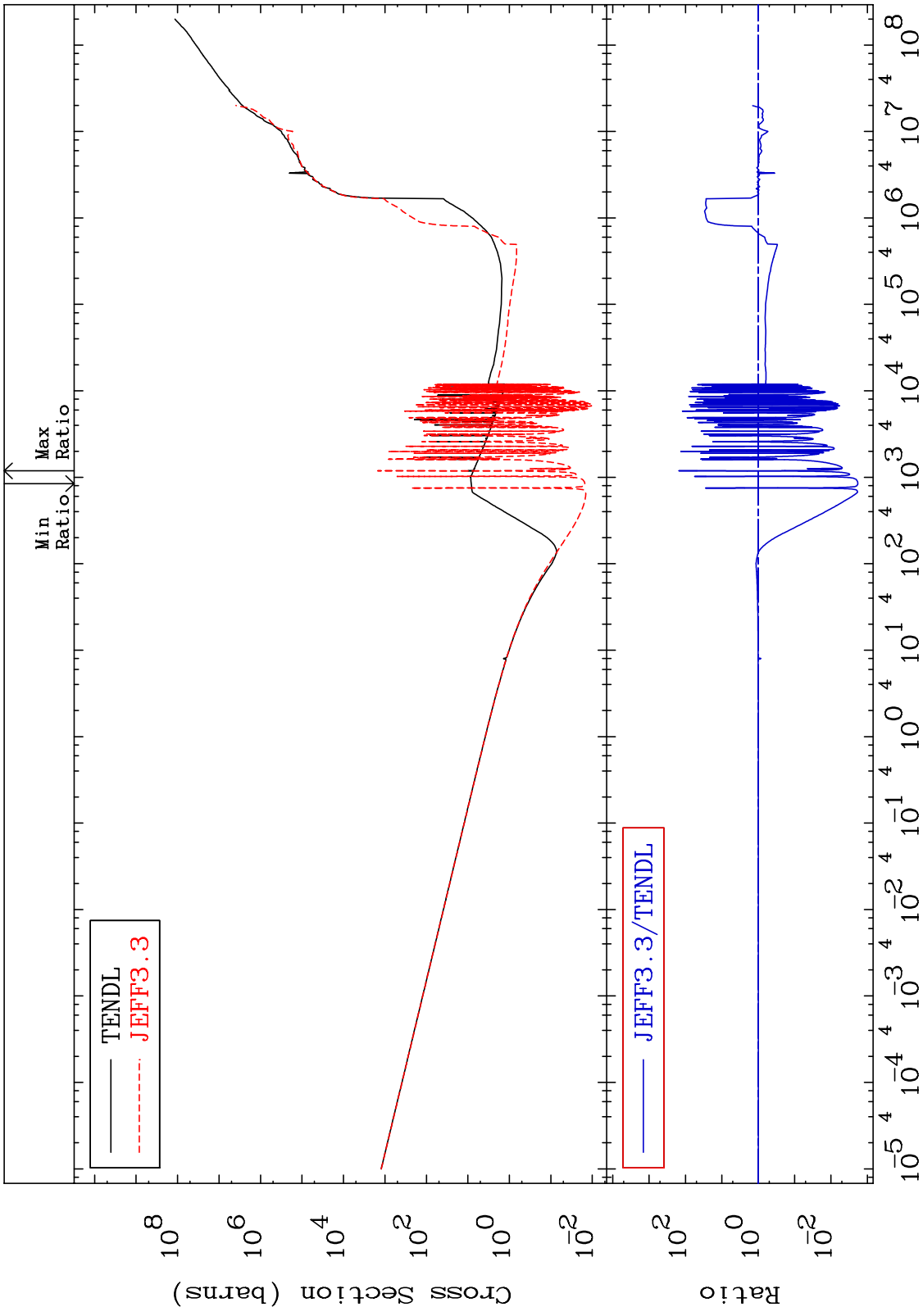
Kerma elastic  
Cross Section

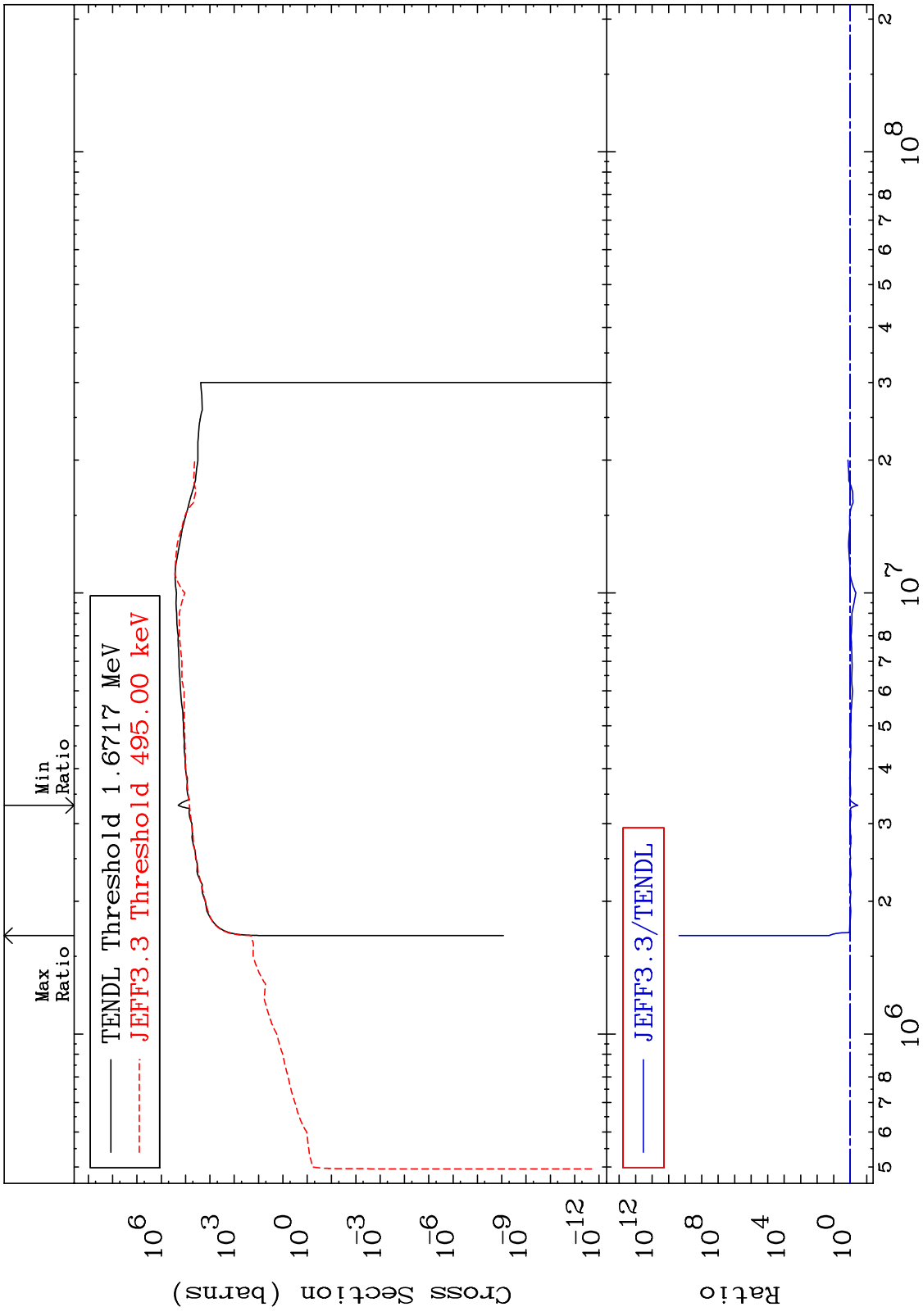
62-Sm-144  
-99.98 To 9999. %





MAT 6225      Kerma non-elastic (all but mt.2)      62-Sm-144  
 Cross Section      -99.82 To 9999. %

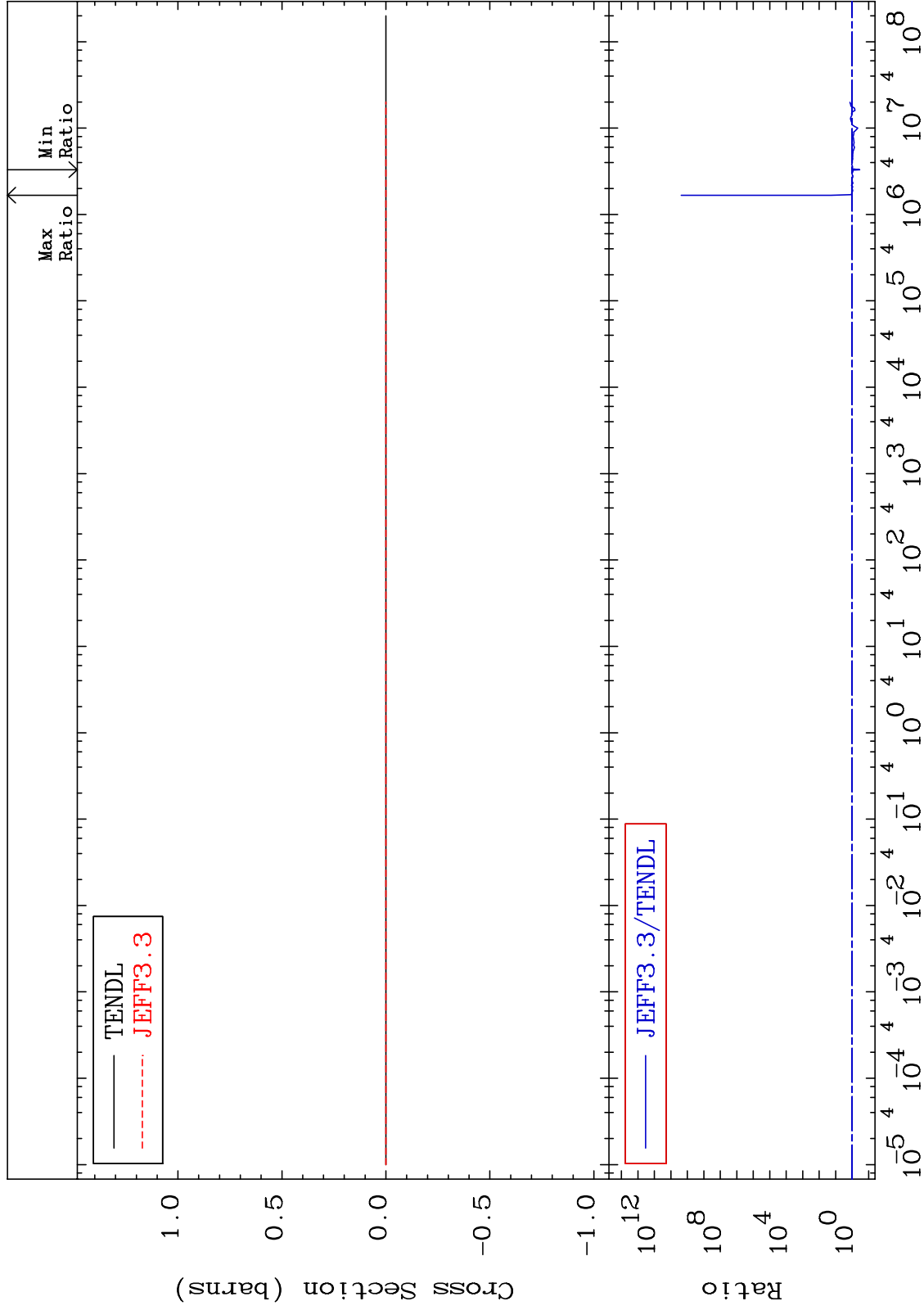




MAT 6225

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

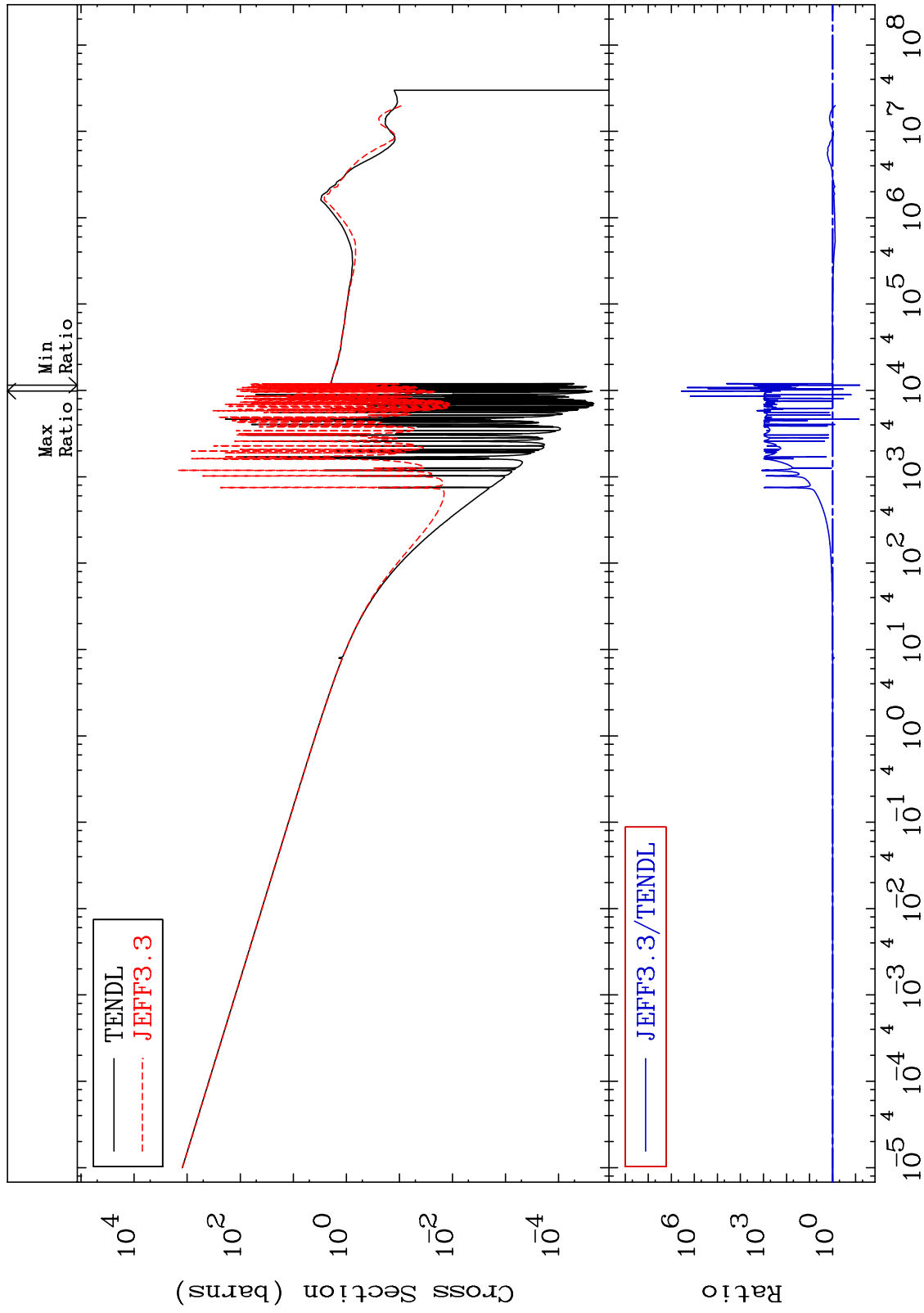
62-Sm-144  
-65.72 To 9999. %



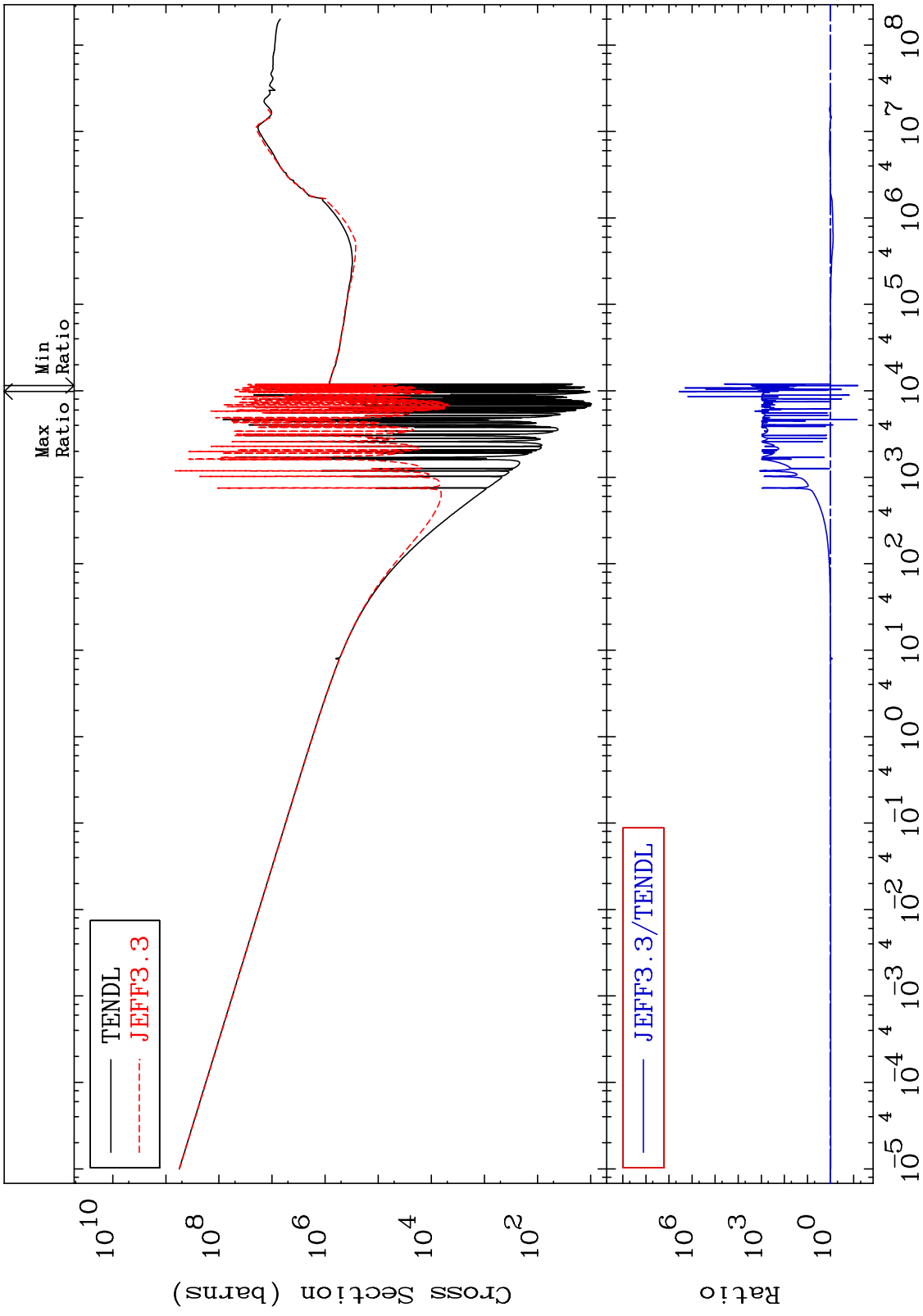
MAT 6225

Kerma capture (mt102)  
Cross Section

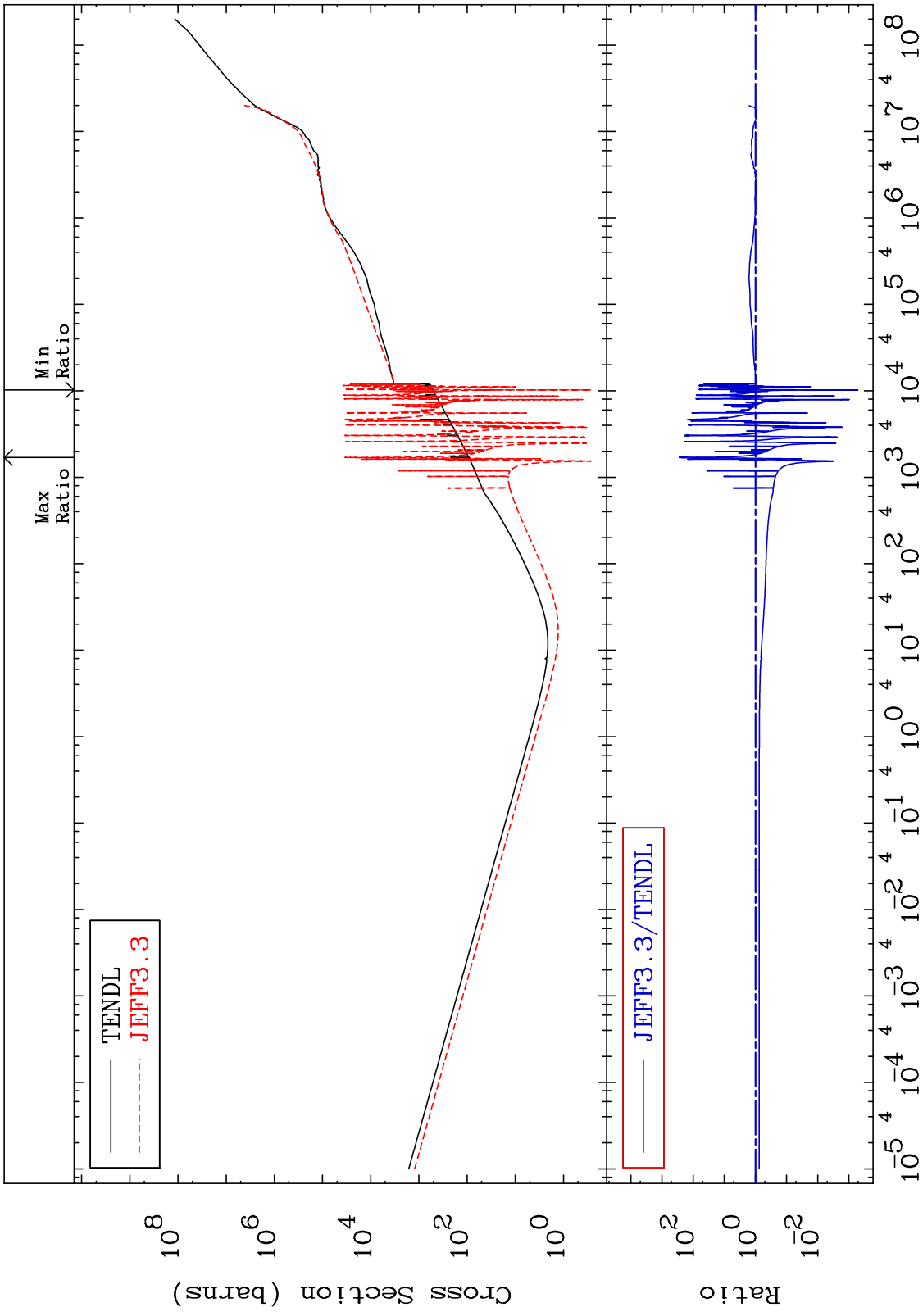
62-Sm-144  
-93.42 To 9999. %



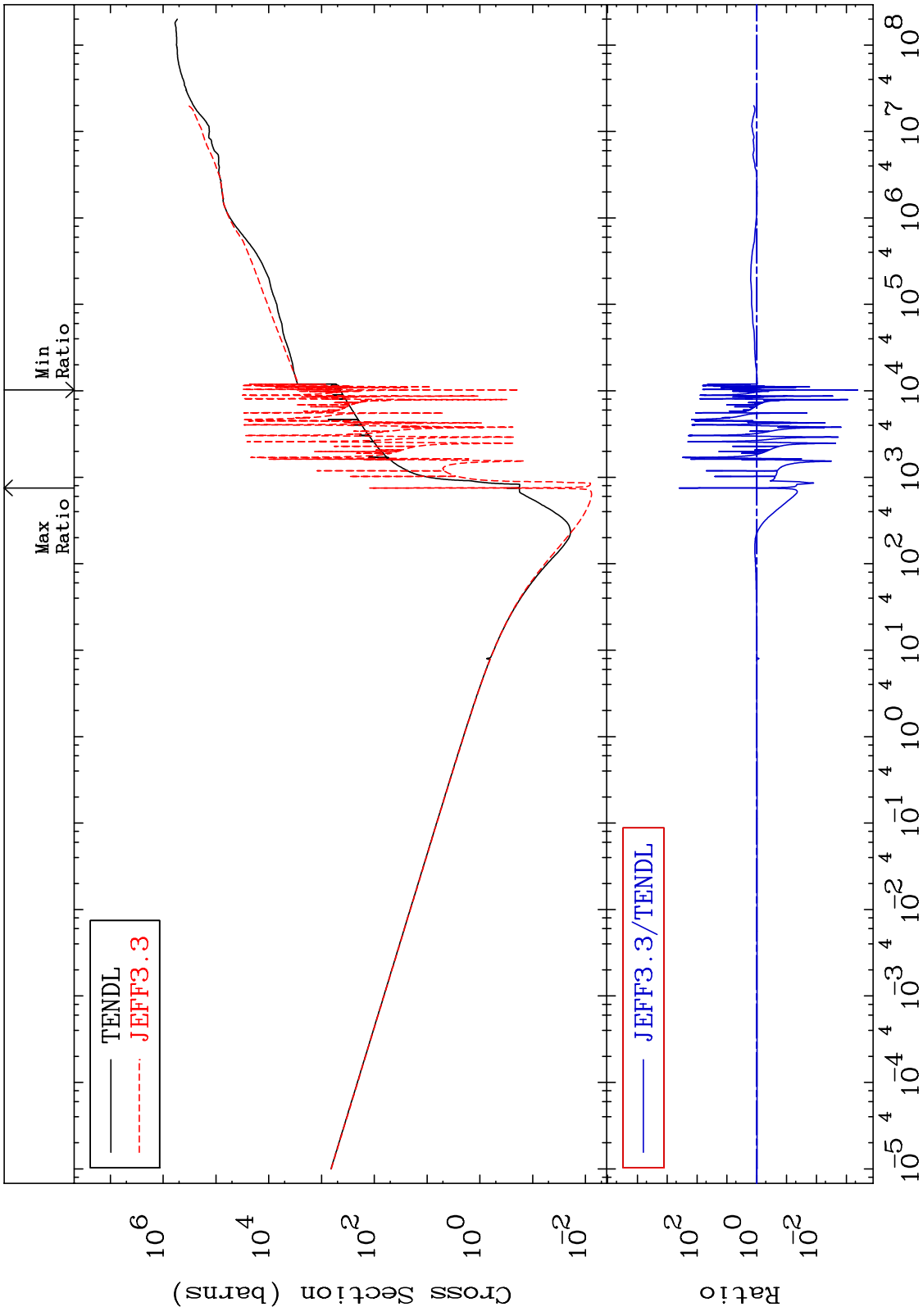
MAT 6225 Total photon (eV-barns) Cross Section 62-Sm-144 -93.41 To 9999. %



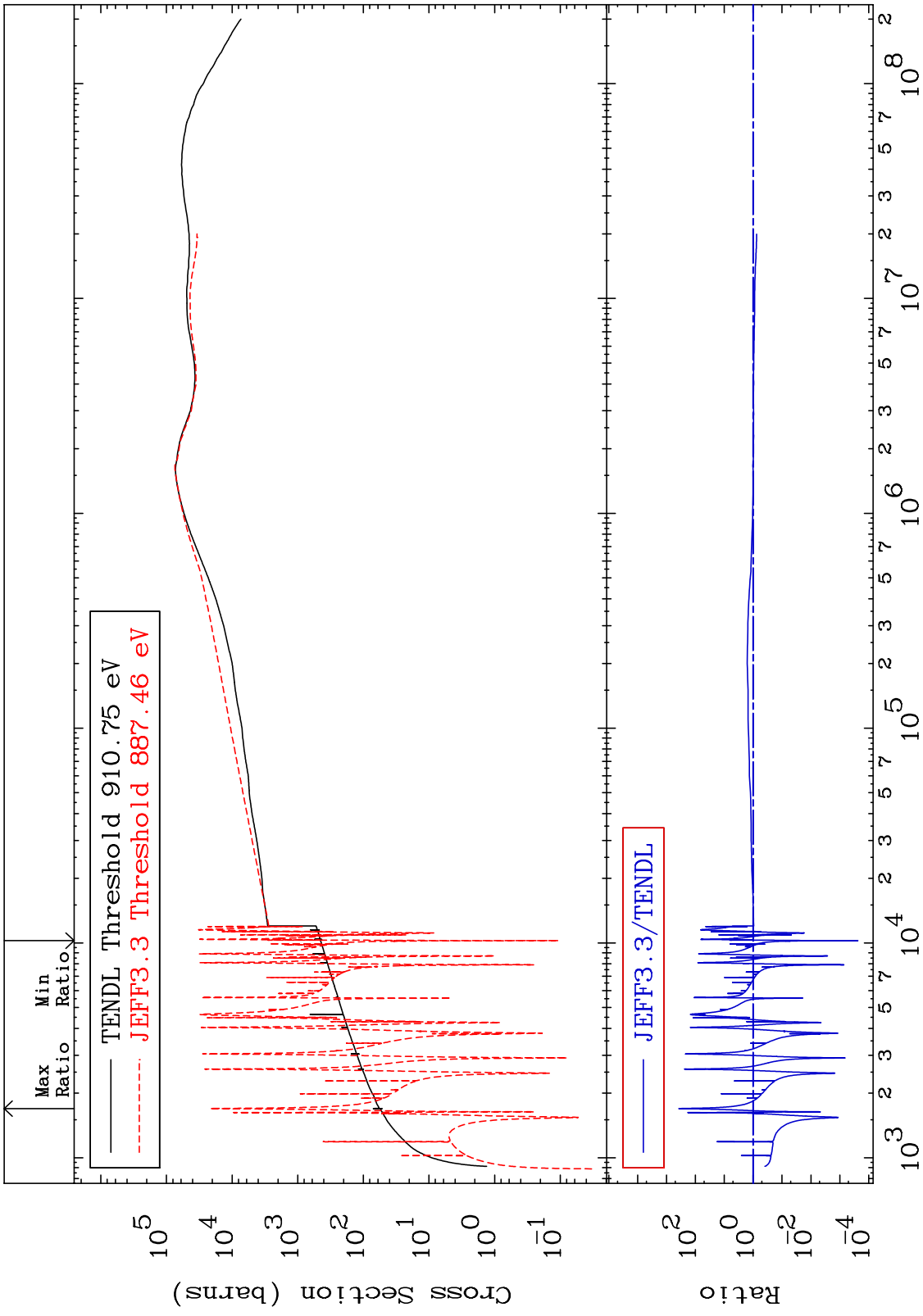
MAT 6225      Total kinematic kerma (high limit)      62-Sm-144  
Cross Section      -99.95 To 9999. %



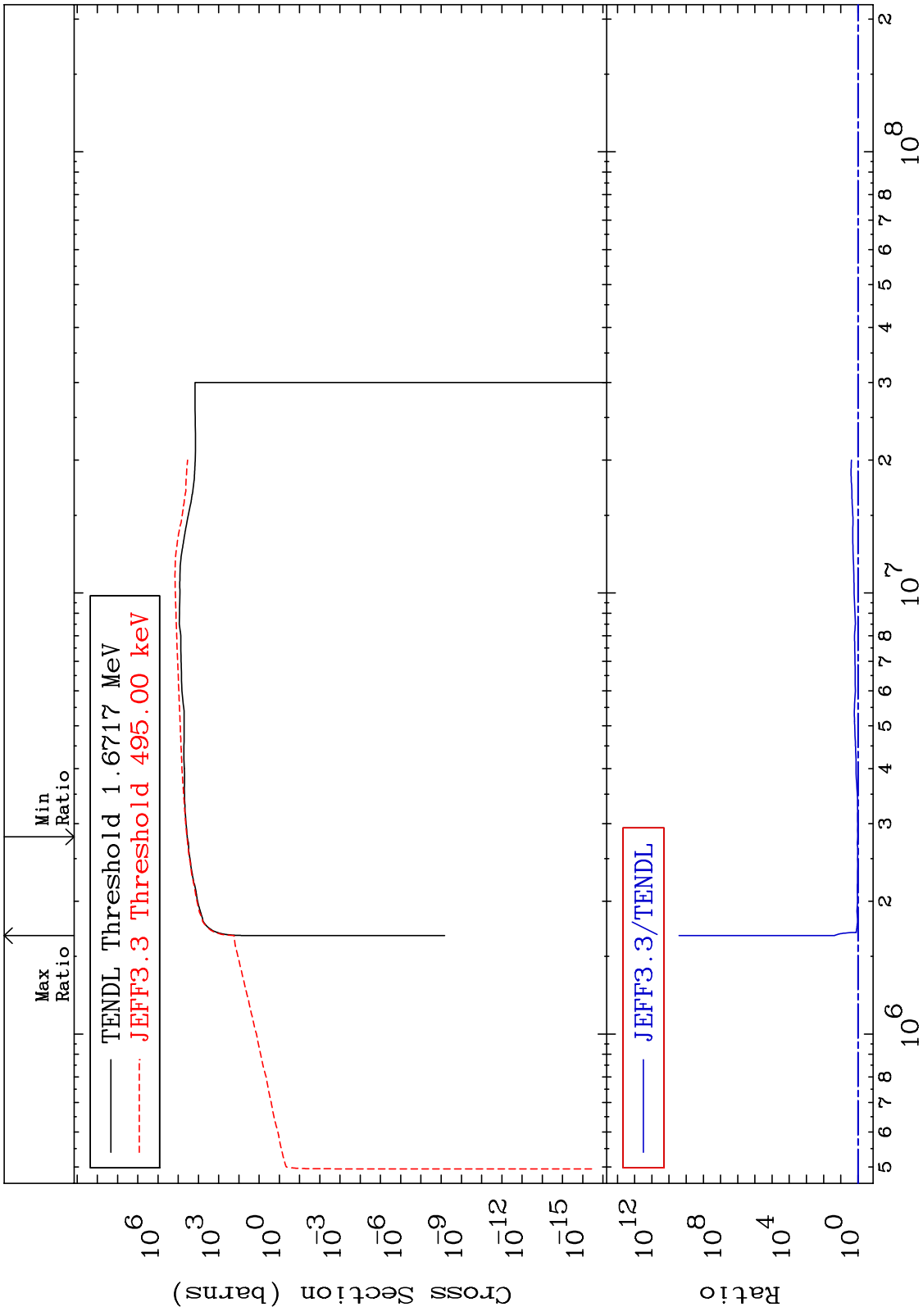
MAT 6225      Dpa total (eV-barns)      62-Sm-144  
 Cross Section      -99.96 To 9999. %



MAT 6225 62-Sm-144  
 Dpa elastic (mt2) -99.98 To 9999. %  
 Cross Section







MAT 6225      Dpa disappearance (mt102 -120)      62-Sm-144  
 Cross Section      -95.63 To 9999. %

