

Program Complot
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

U.S.A.

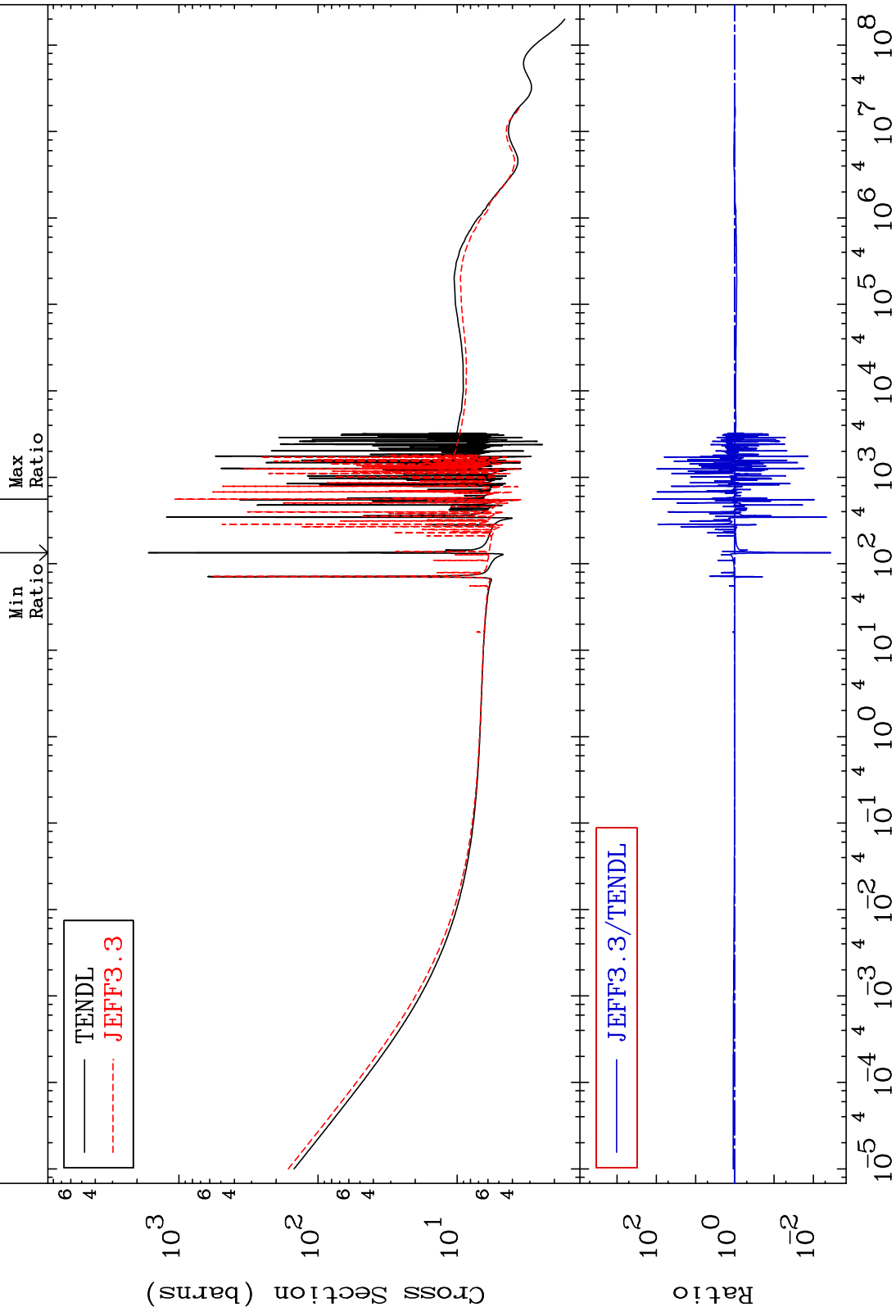
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 4240 42-Mo-97 -99.64 To 9999. %

Total Cross Section

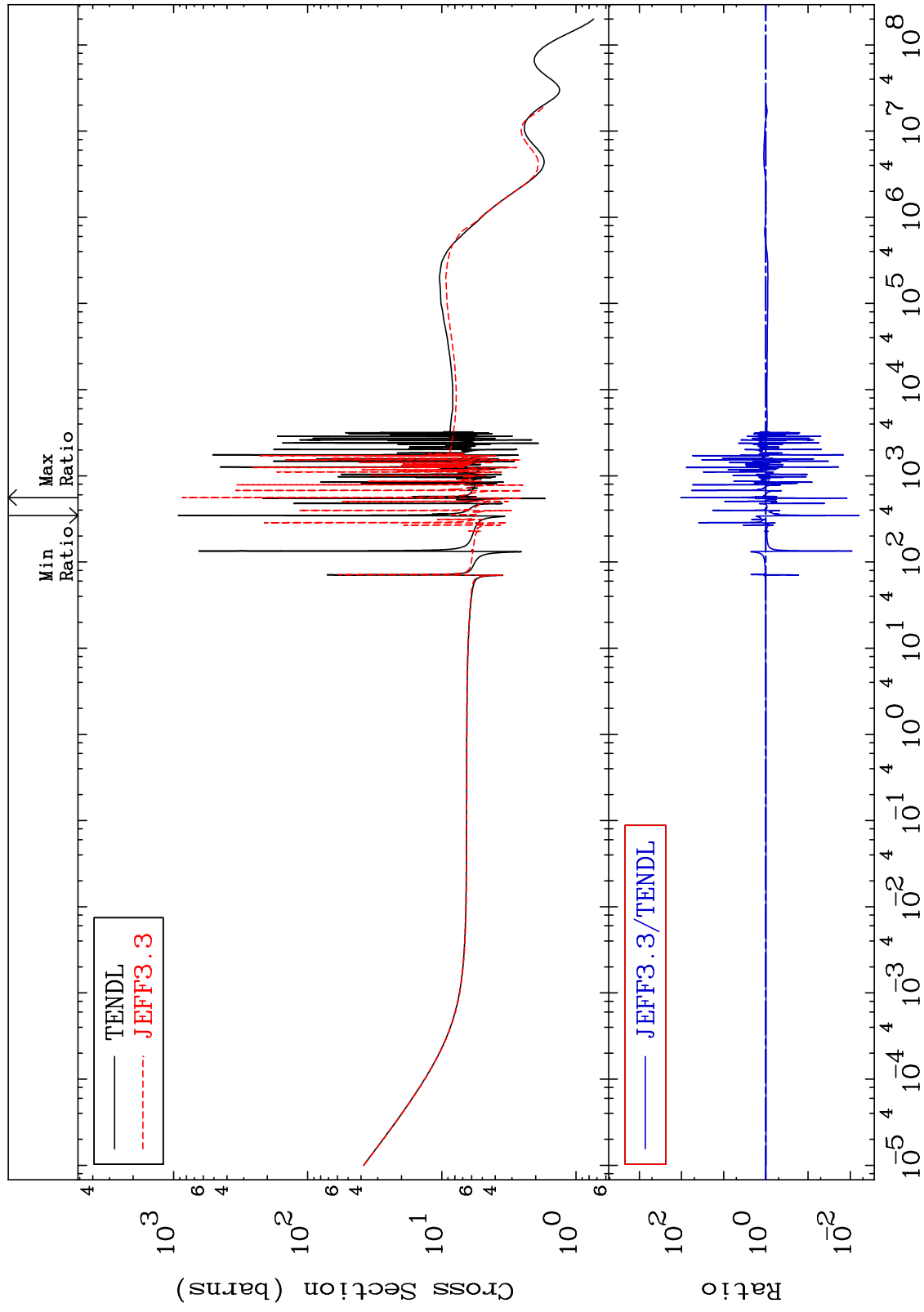


42-Mo-97

Incident Energy (eV)

1

MAT 4240 Elastic Cross Section 42-Mo-97 -99.38 To 9999. %



42-Mo-97

42-Mo-97

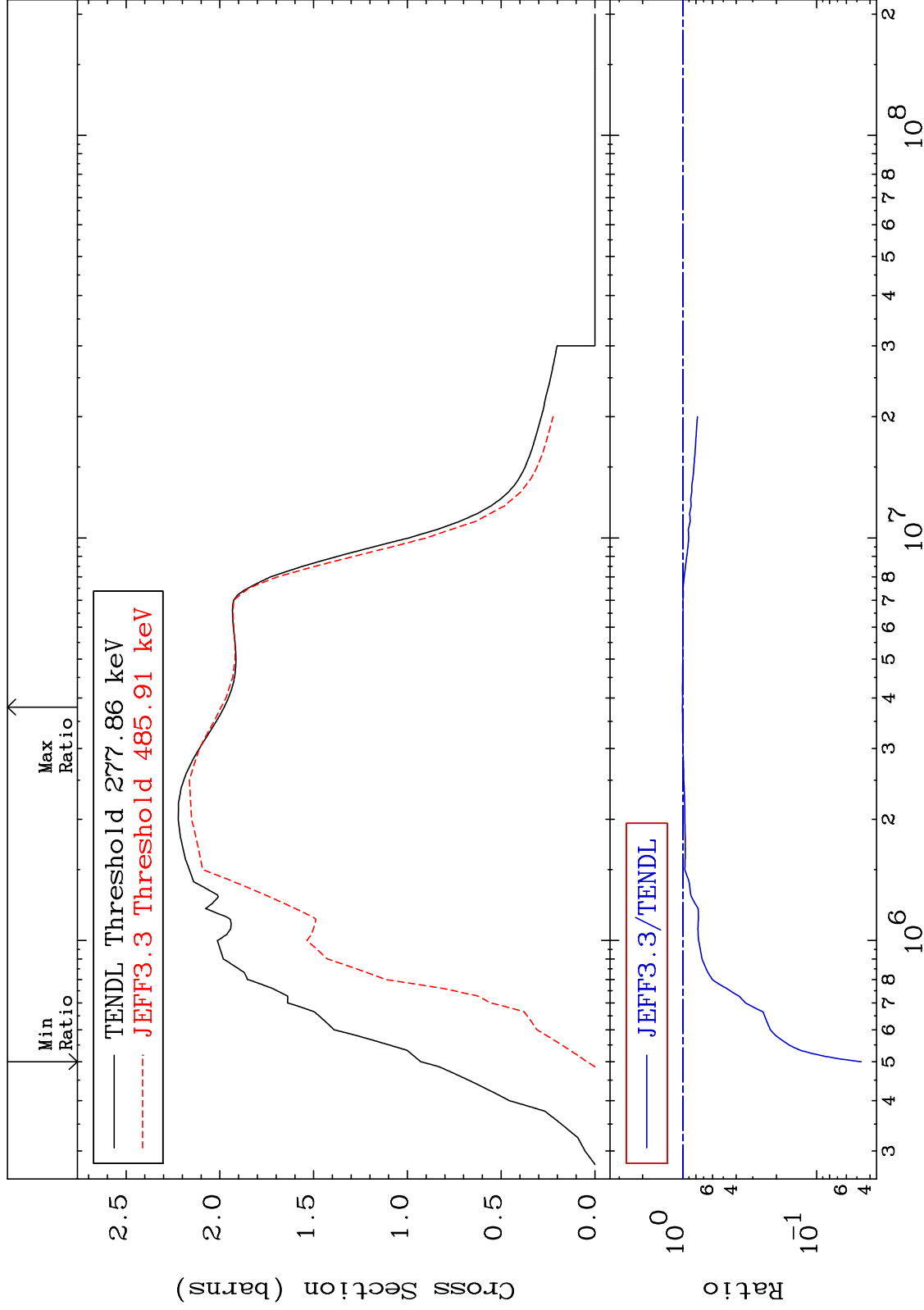
MAT 4240

Inelastic

42-Mo-97

Cross Section

-95.36 To 0.822 %

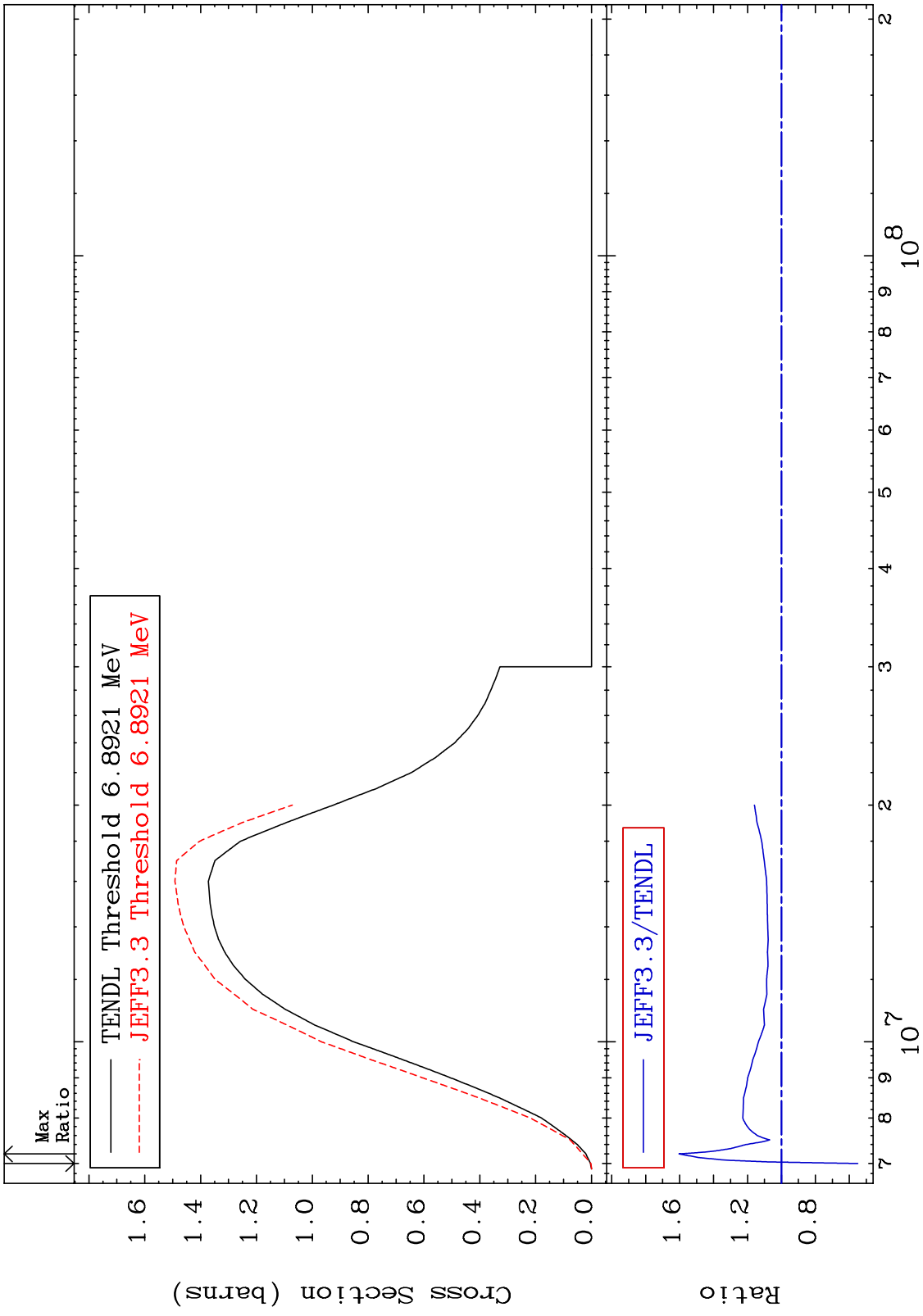


3

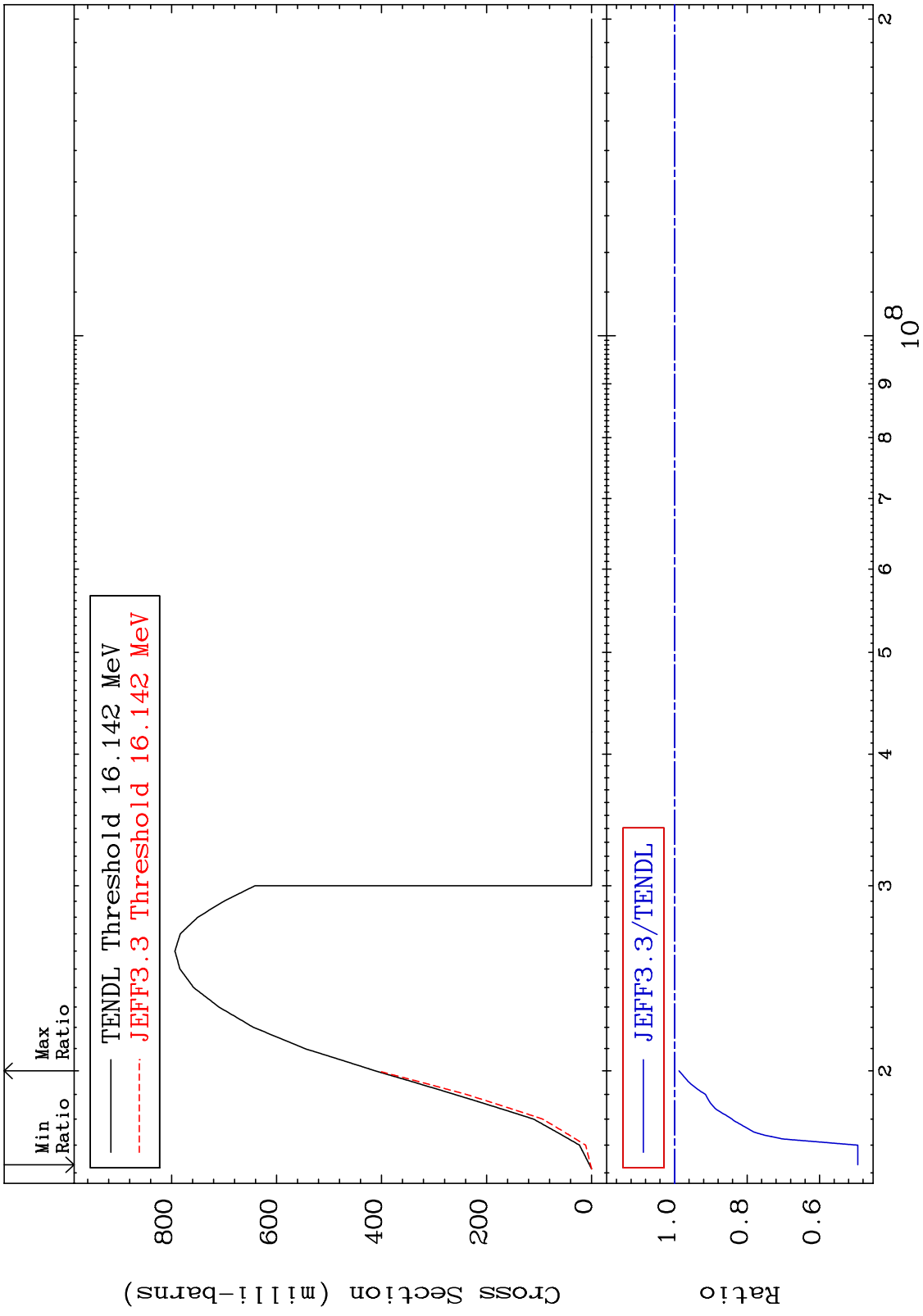
Incident Energy (eV)

42-Mo-97

MAT 4240 (n,2n) Cross Section 42-Mo-97 -44.99 To 60.33 %



MAT 4240 (n,3n) Cross Section 42-Mo-97 -50.54 To -1.237%



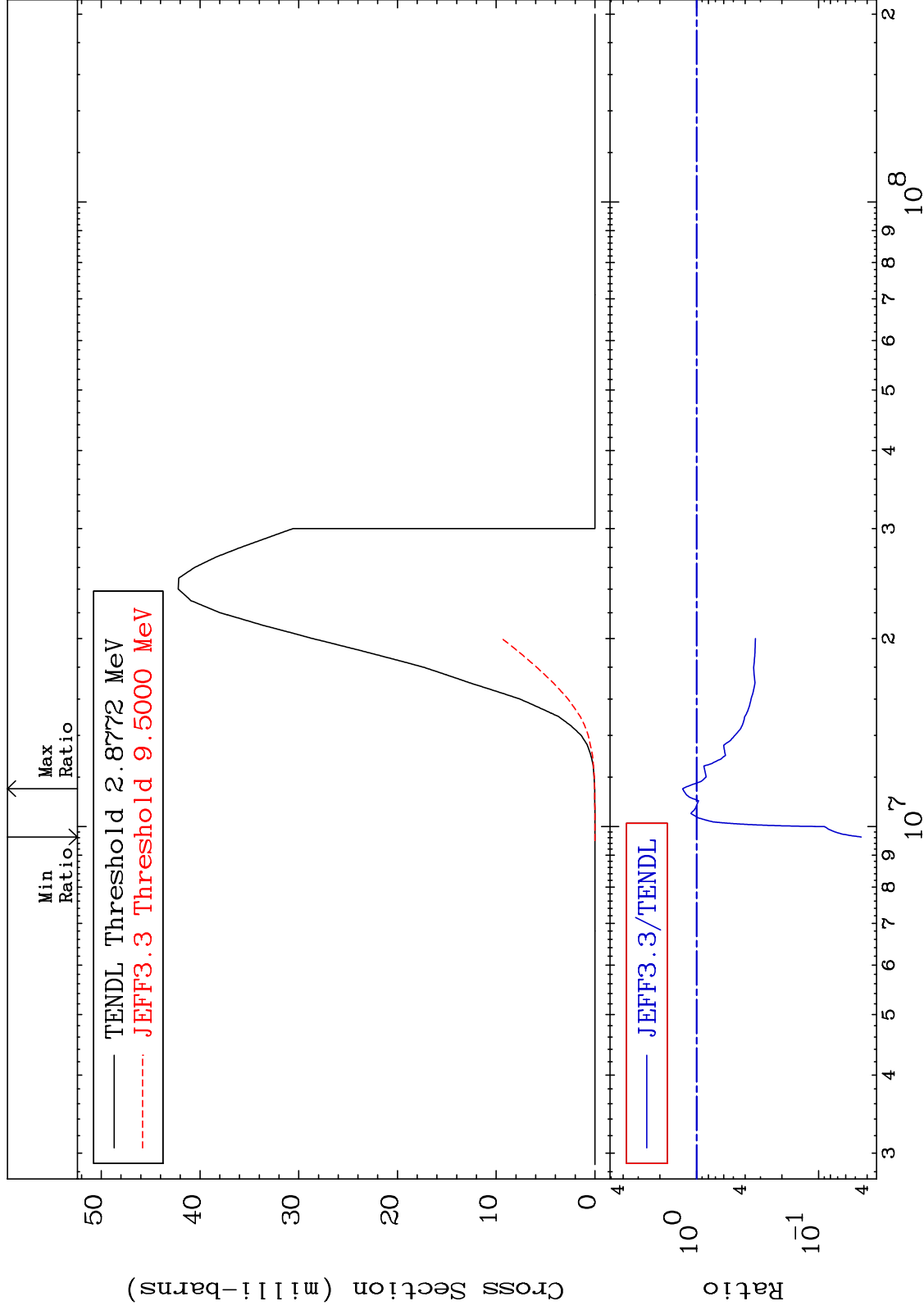
MAT 4240

(n, n') α

42-Mo-97

Cross Section

-95.53 To 30.42 %

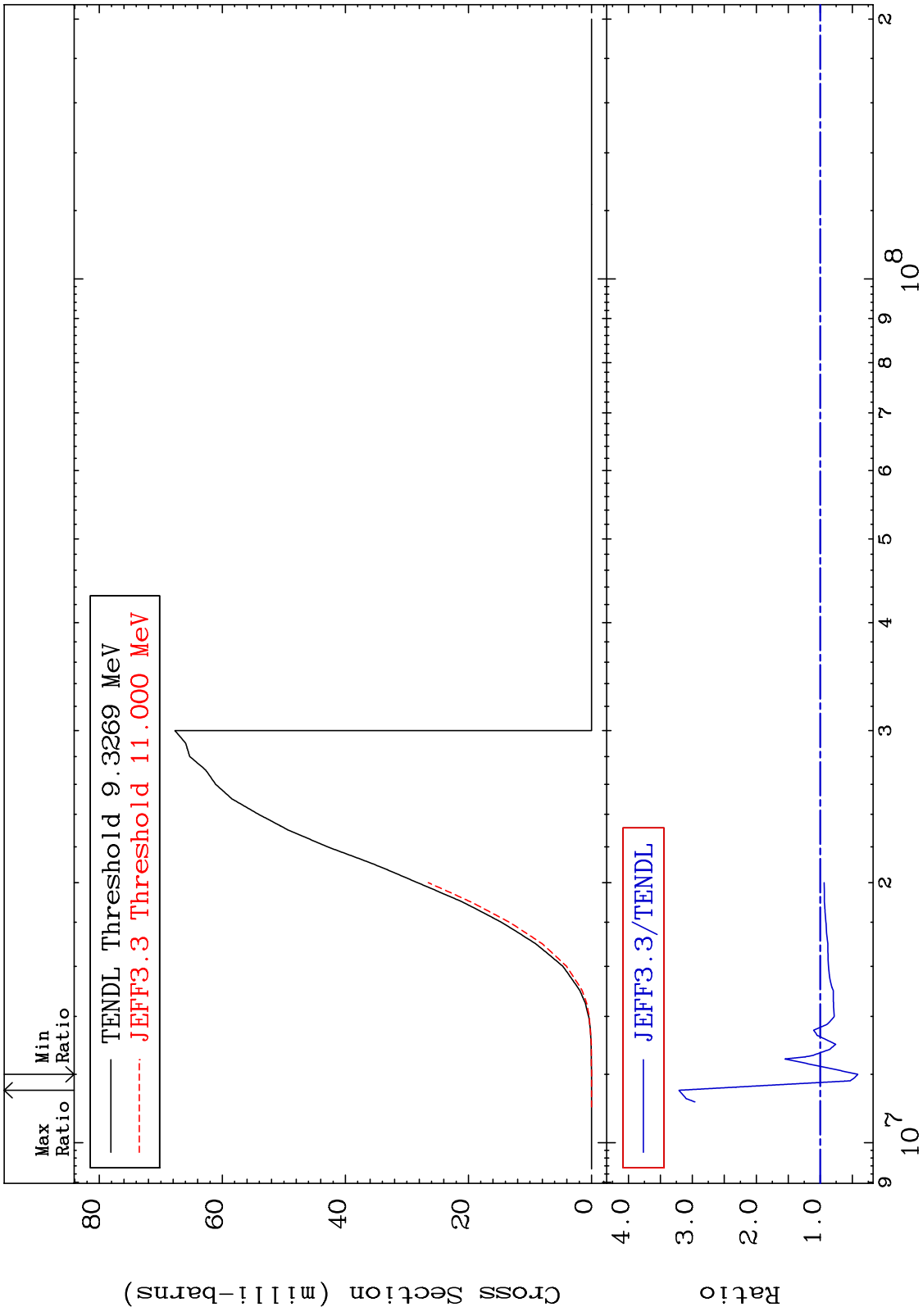


6

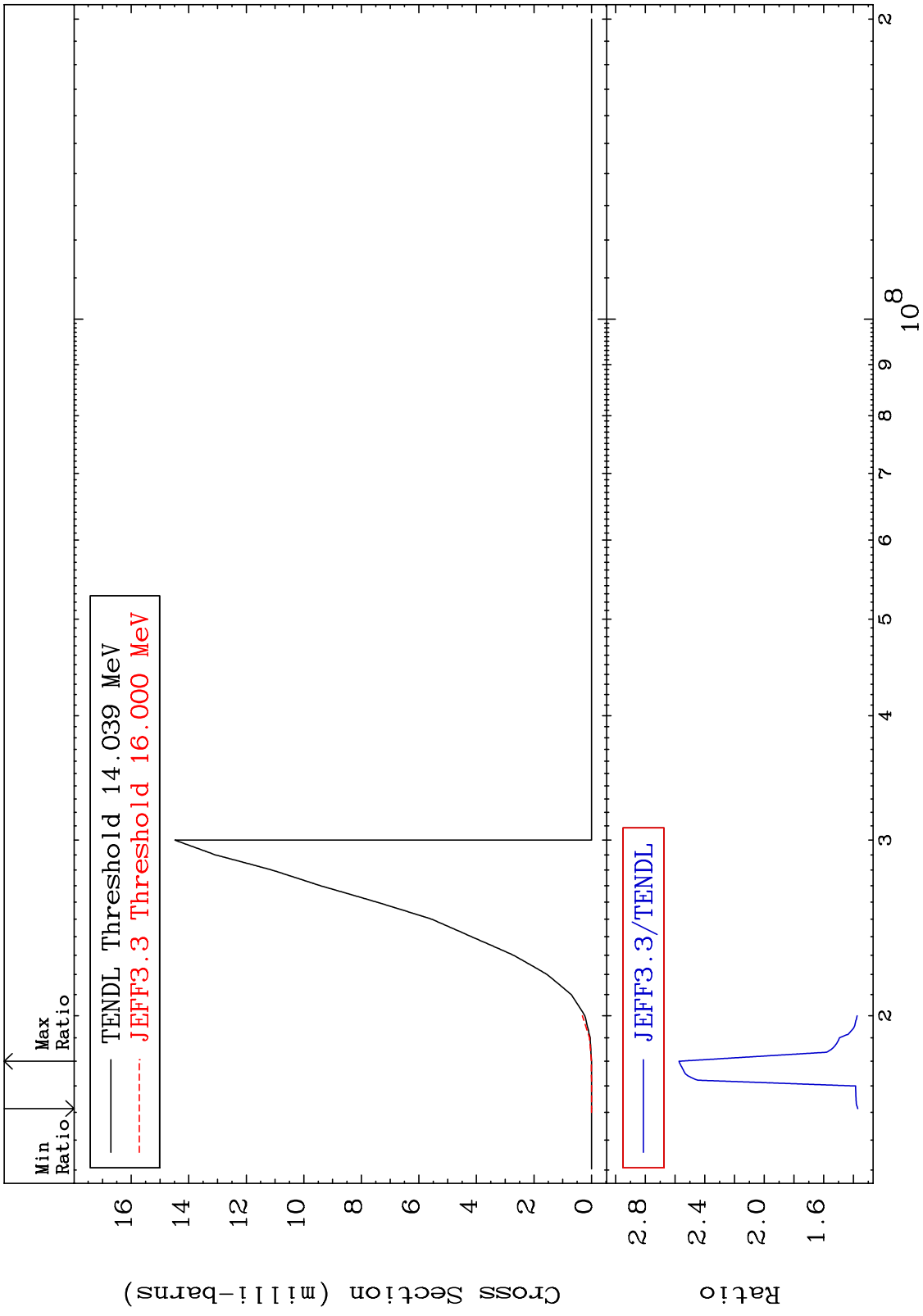
Incident Energy (eV)

42-Mo-97

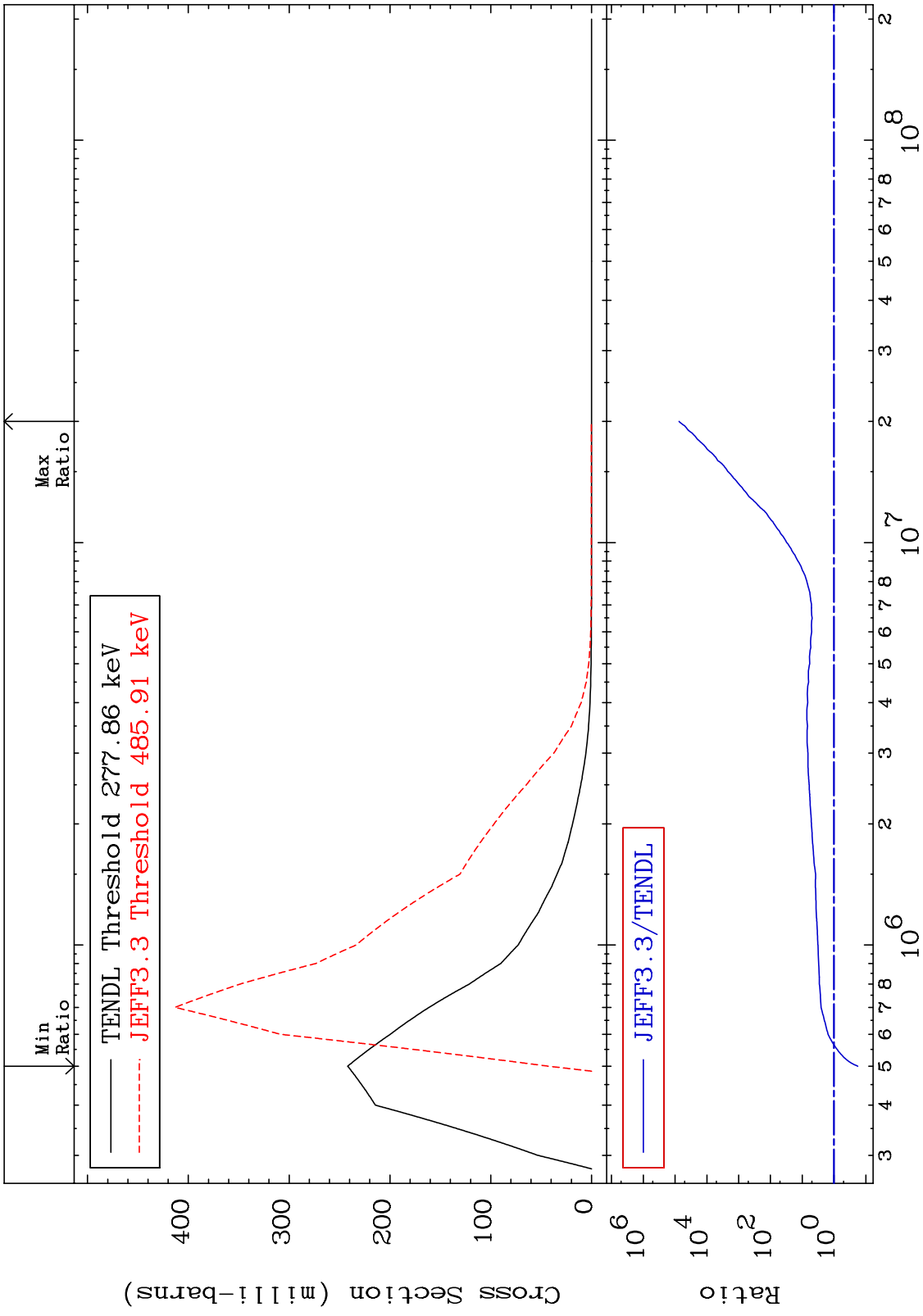
MAT 4240 (n, n') p Cross Section -58.78 To 220.8 % 42-Mo-97



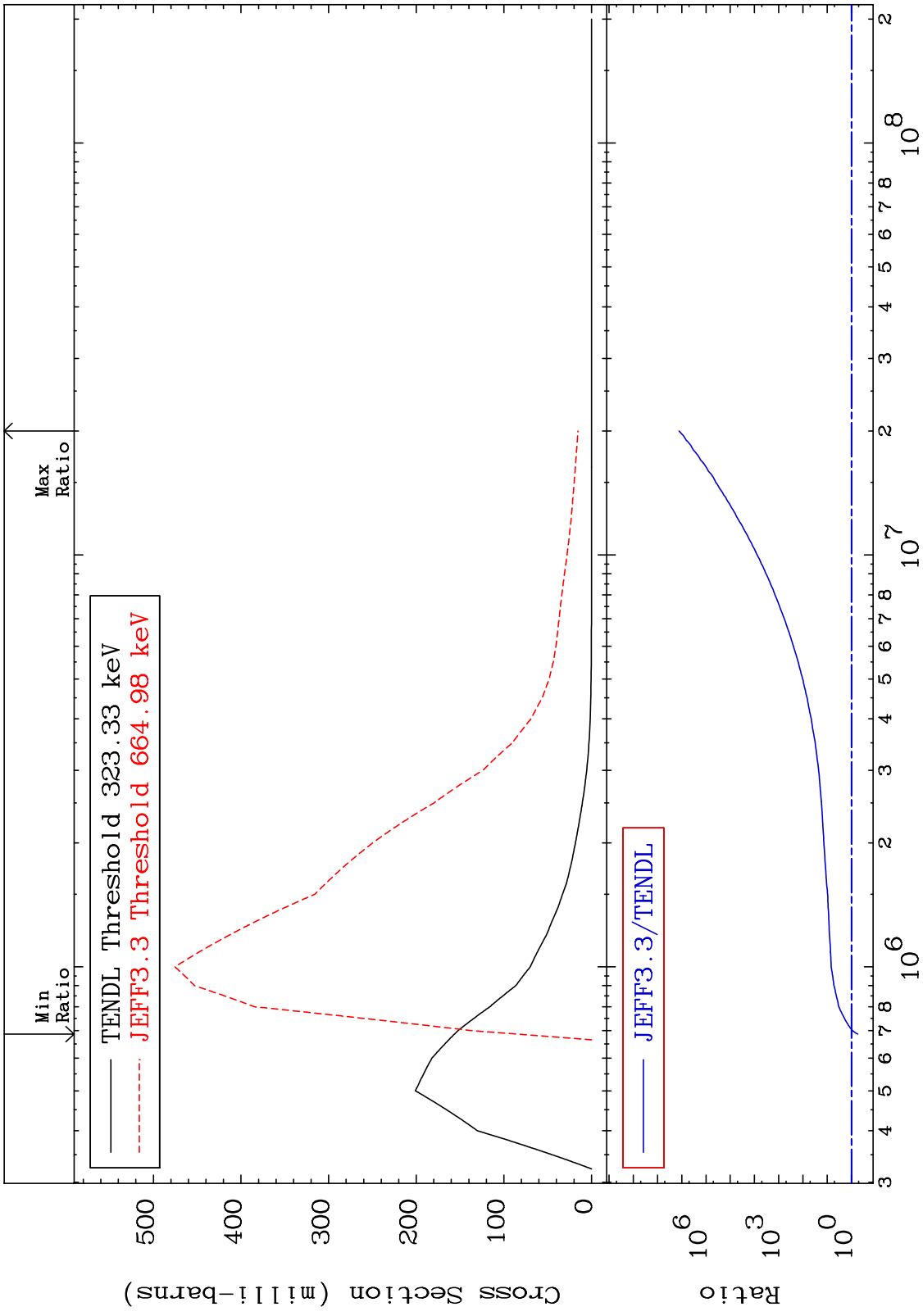
42-Mo-97



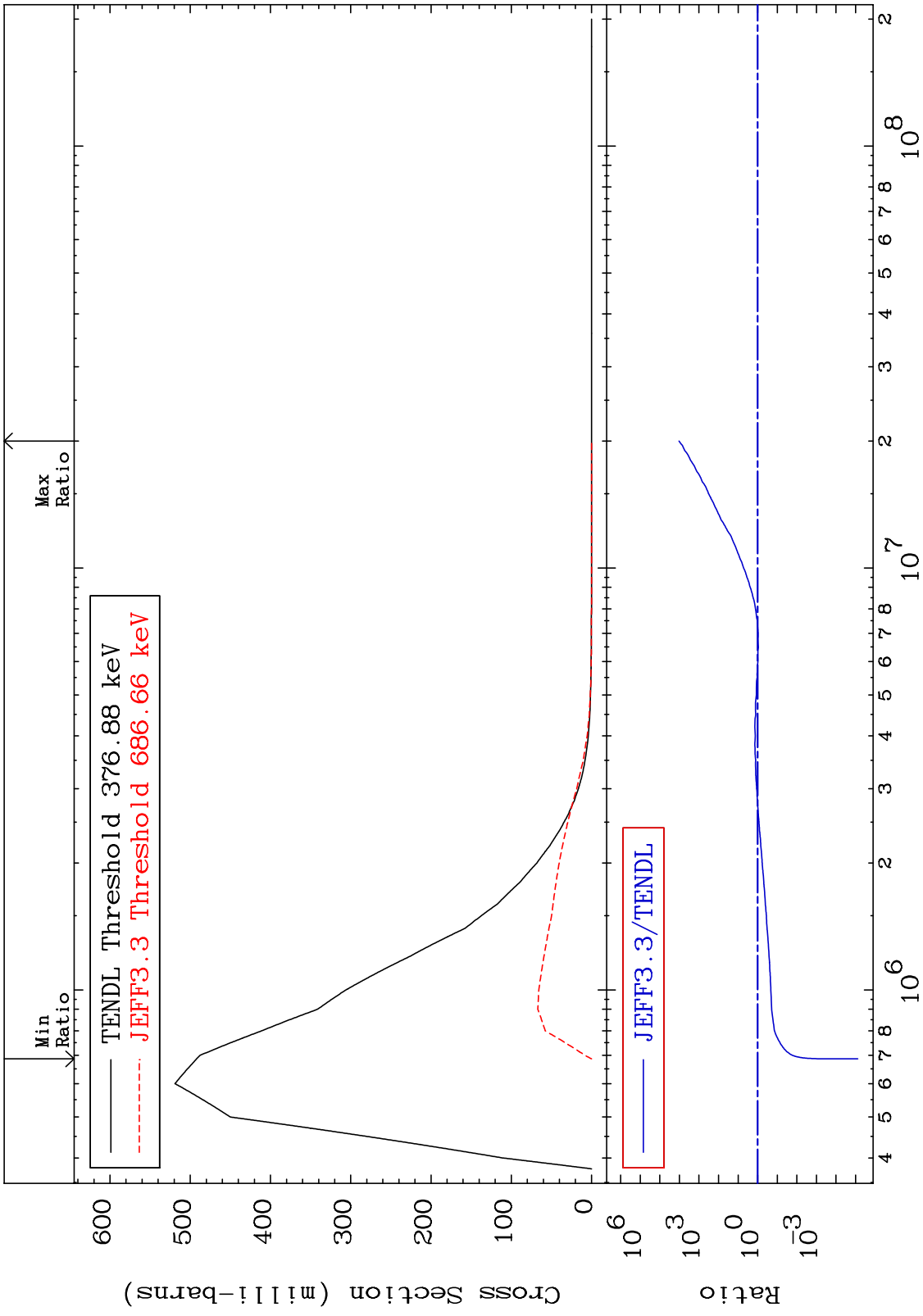
MAT 4240 MT= 51 (n,n') Level Cross Section -82.19 To 9999. % 42-Mo-97



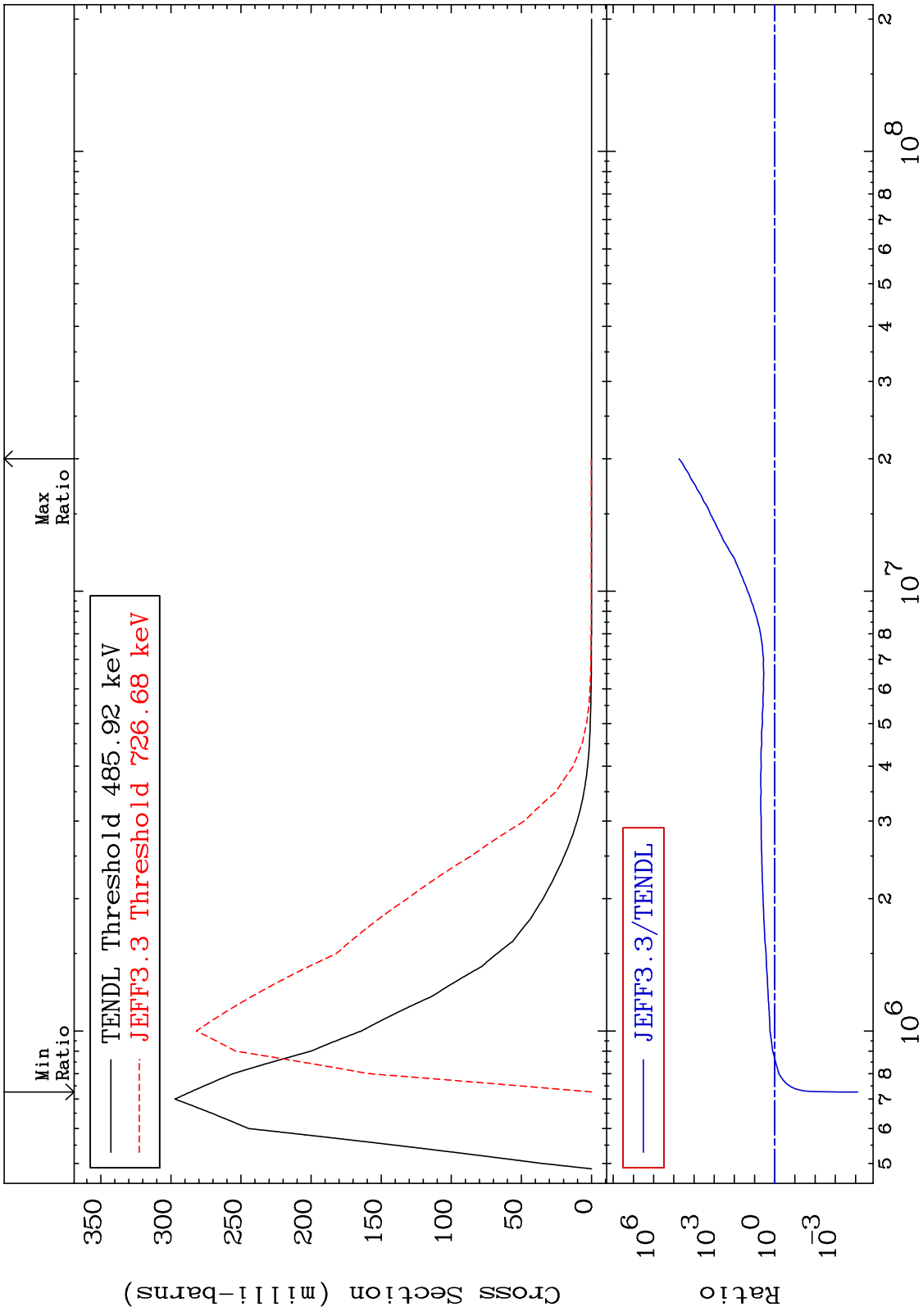
MAT 4240 MT= 52 (n,n') Level Cross Section -45.85 To 9999. % 42-Mo-97



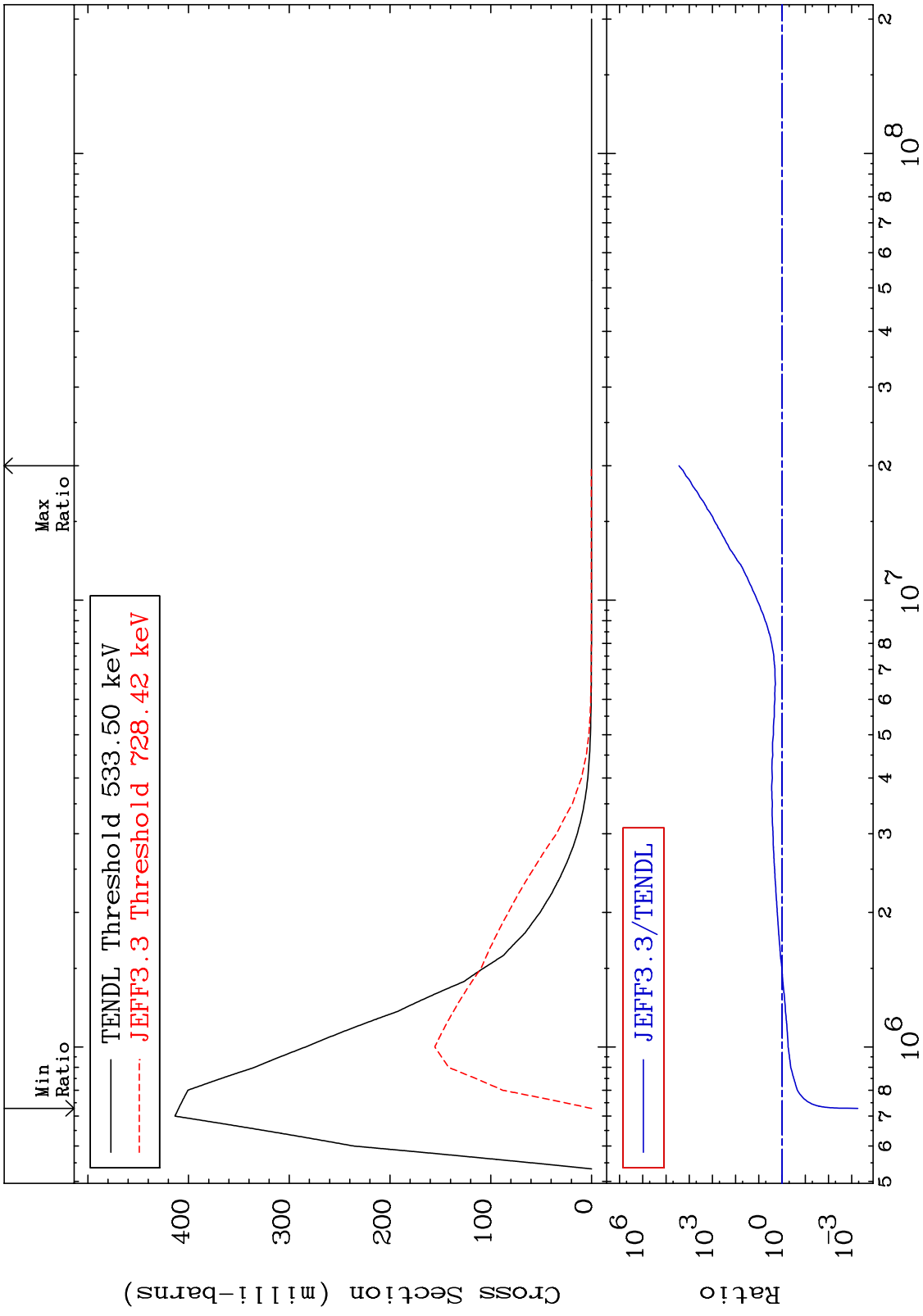
MAT 4240 MT= 53 (n,n') Level Cross Section -100.0 To 9999. % 42-Mo-97



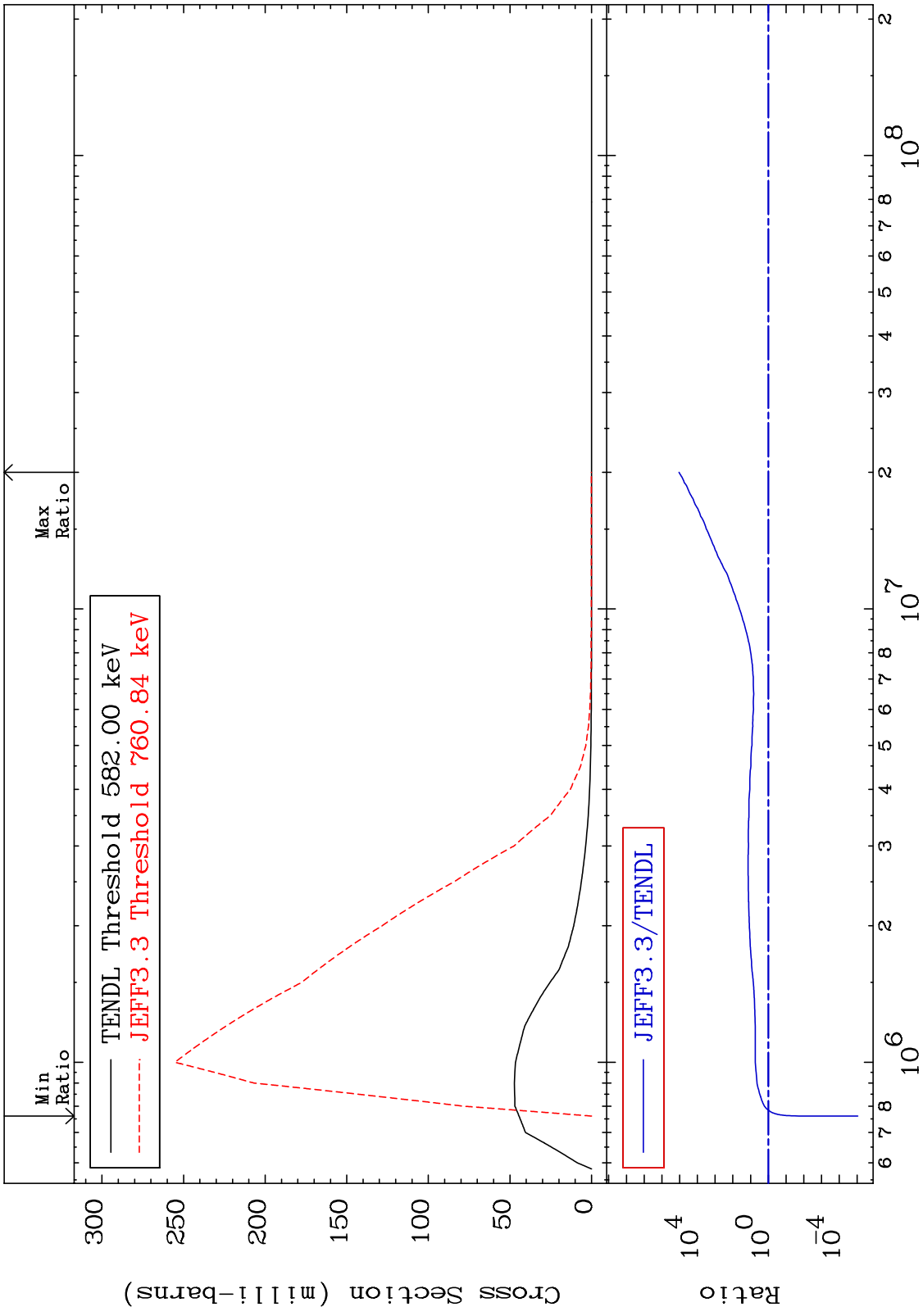
MAT 4240 MT= 54 (n,n') Level Cross Section -99.99 To 9999. % 42-Mo-97



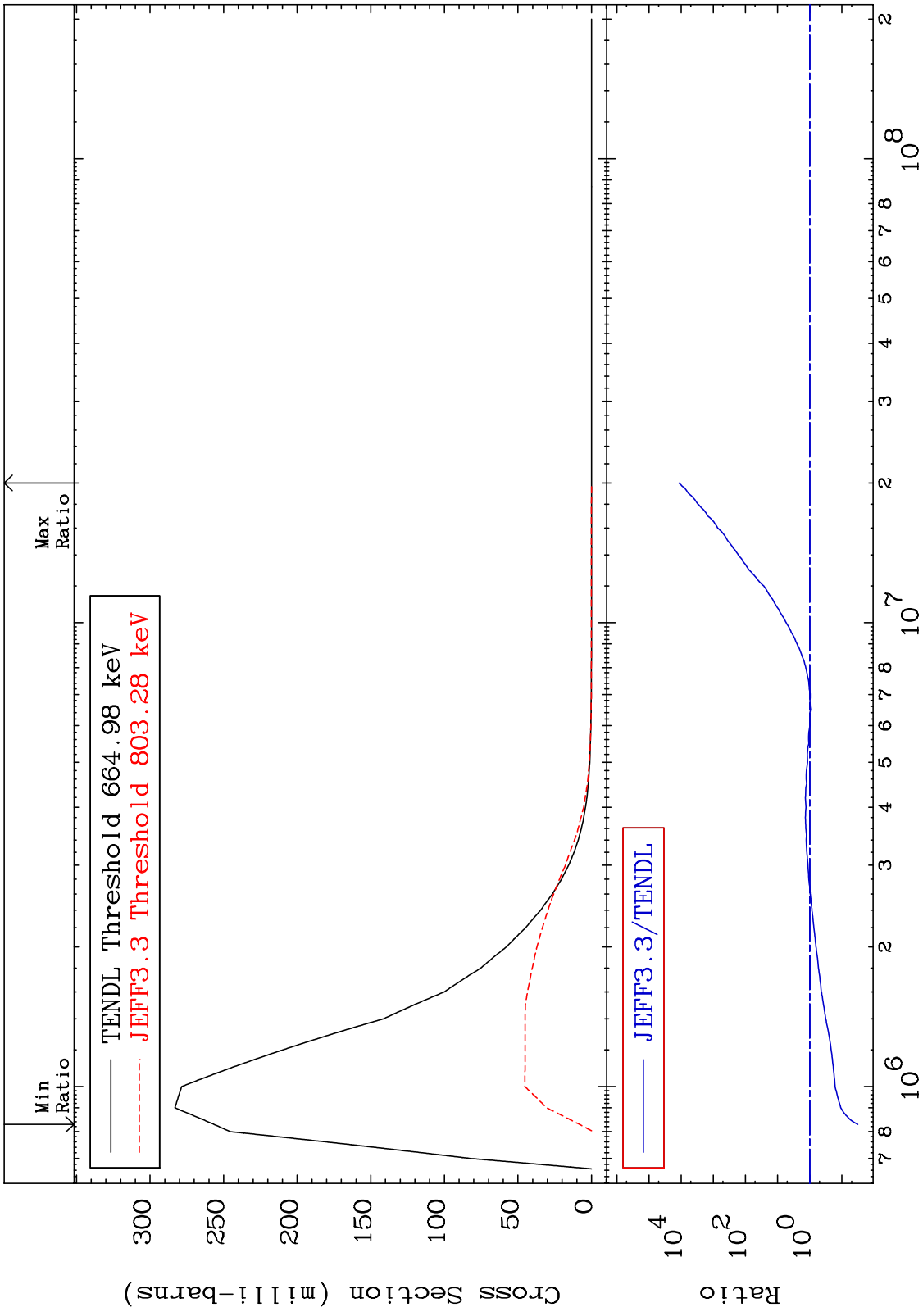
MAT 4240 MT= 55 (n,n') Level Cross Section -99.95 To 9999. % 42-Mo-97



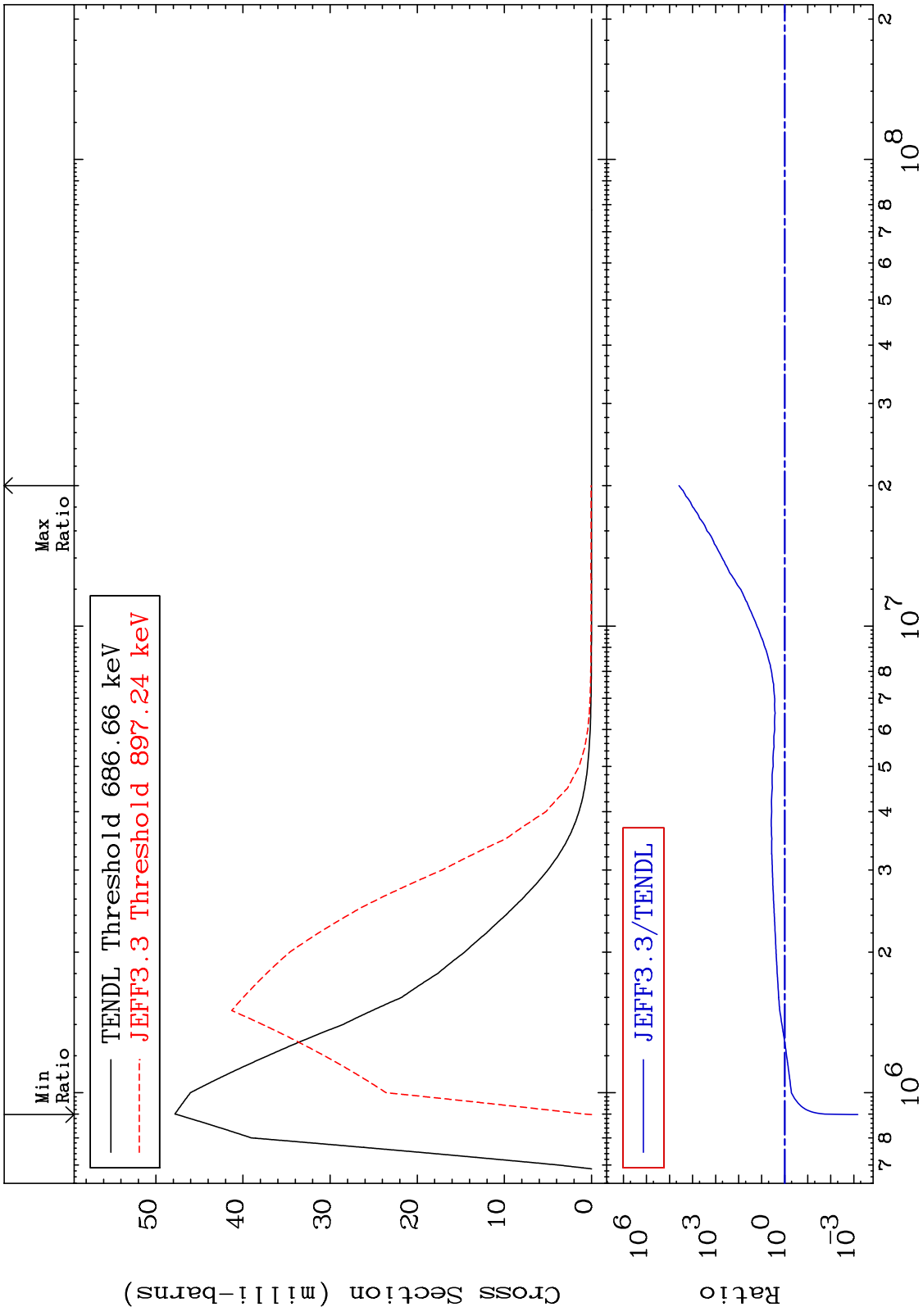
MAT 4240 MT= 56 (n,n') Level Cross Section -100.0 To 9999. % 42-Mo-97



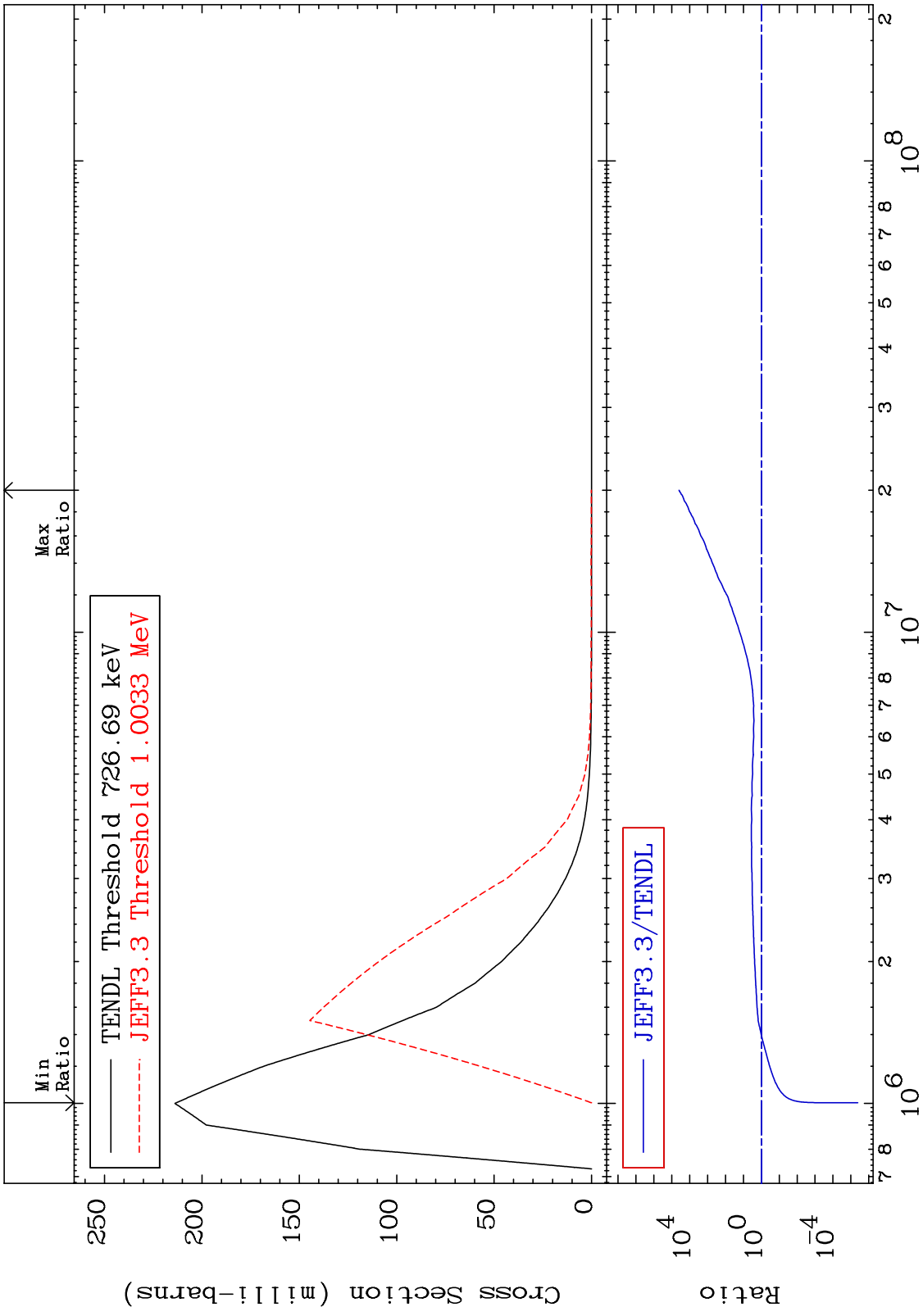
MAT 4240 MT= 57 (n,n') Level Cross Section -96.81 To 9999. % 42-Mo-97



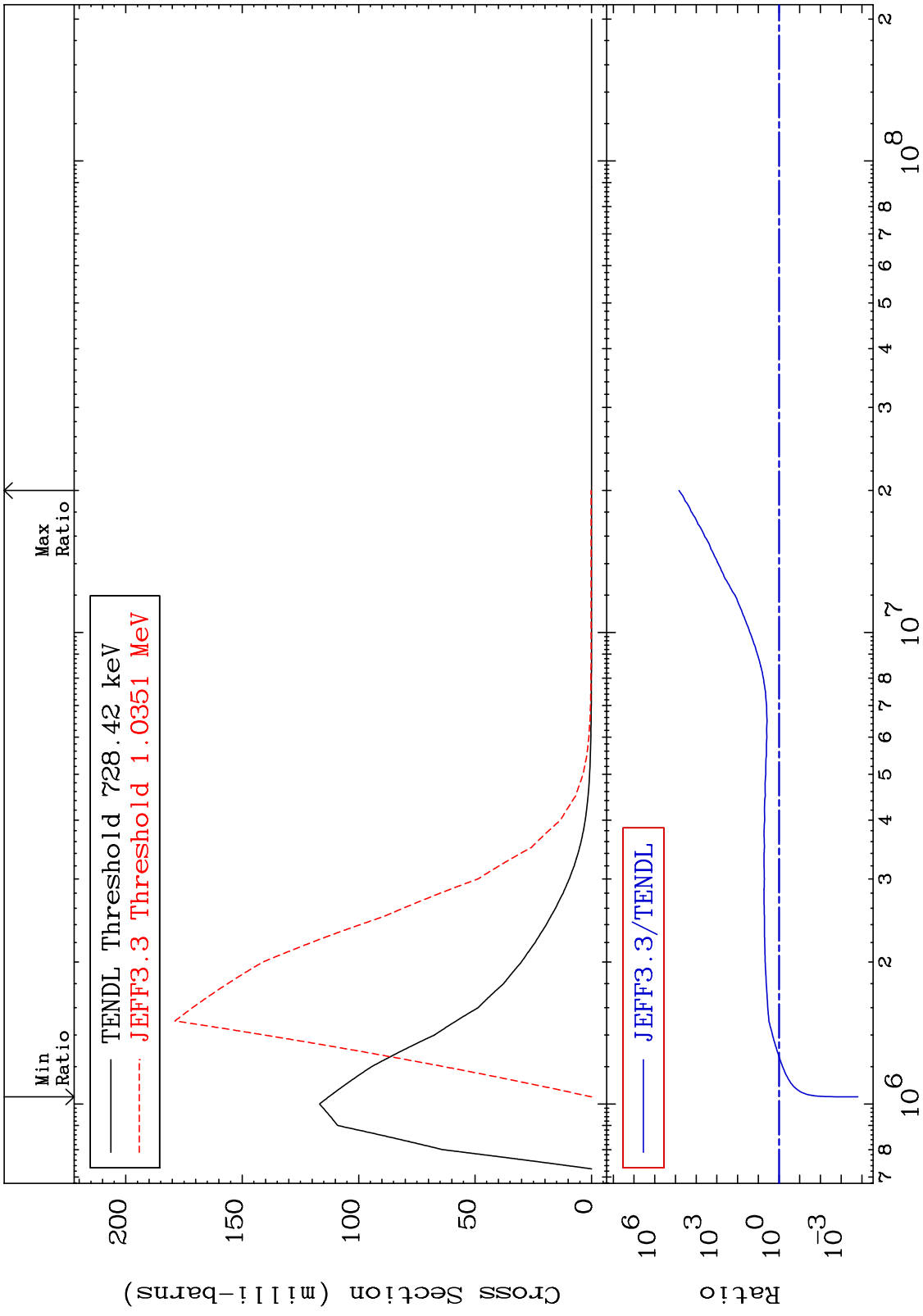
MAT 4240 MT= 58 (n,n') Level Cross Section -99.93 To 9999. % 42-Mo-97



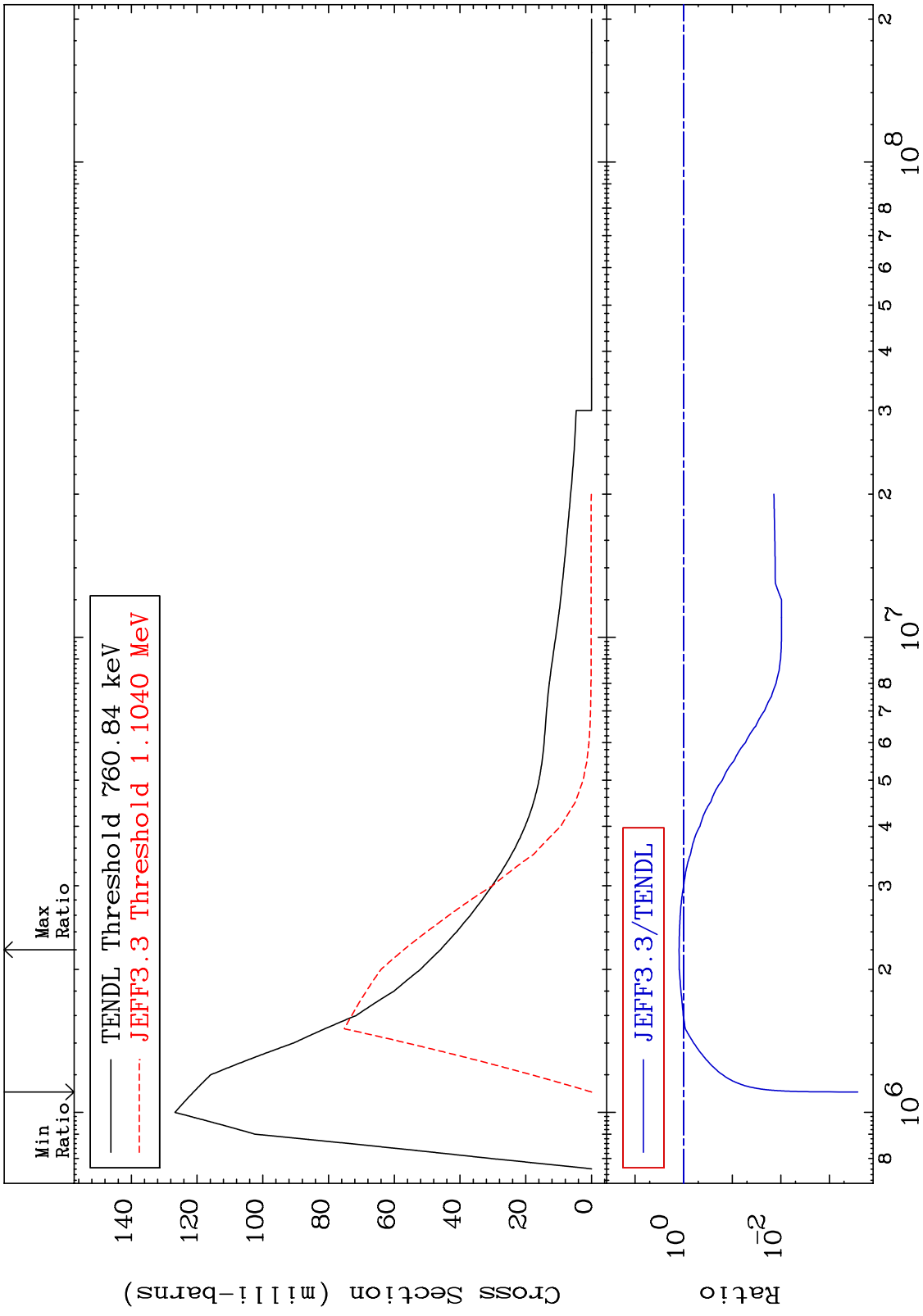
MAT 4240 MT= 59 (n,n') Level Cross Section 42-Mo-97
 -100.0 To 9999. %



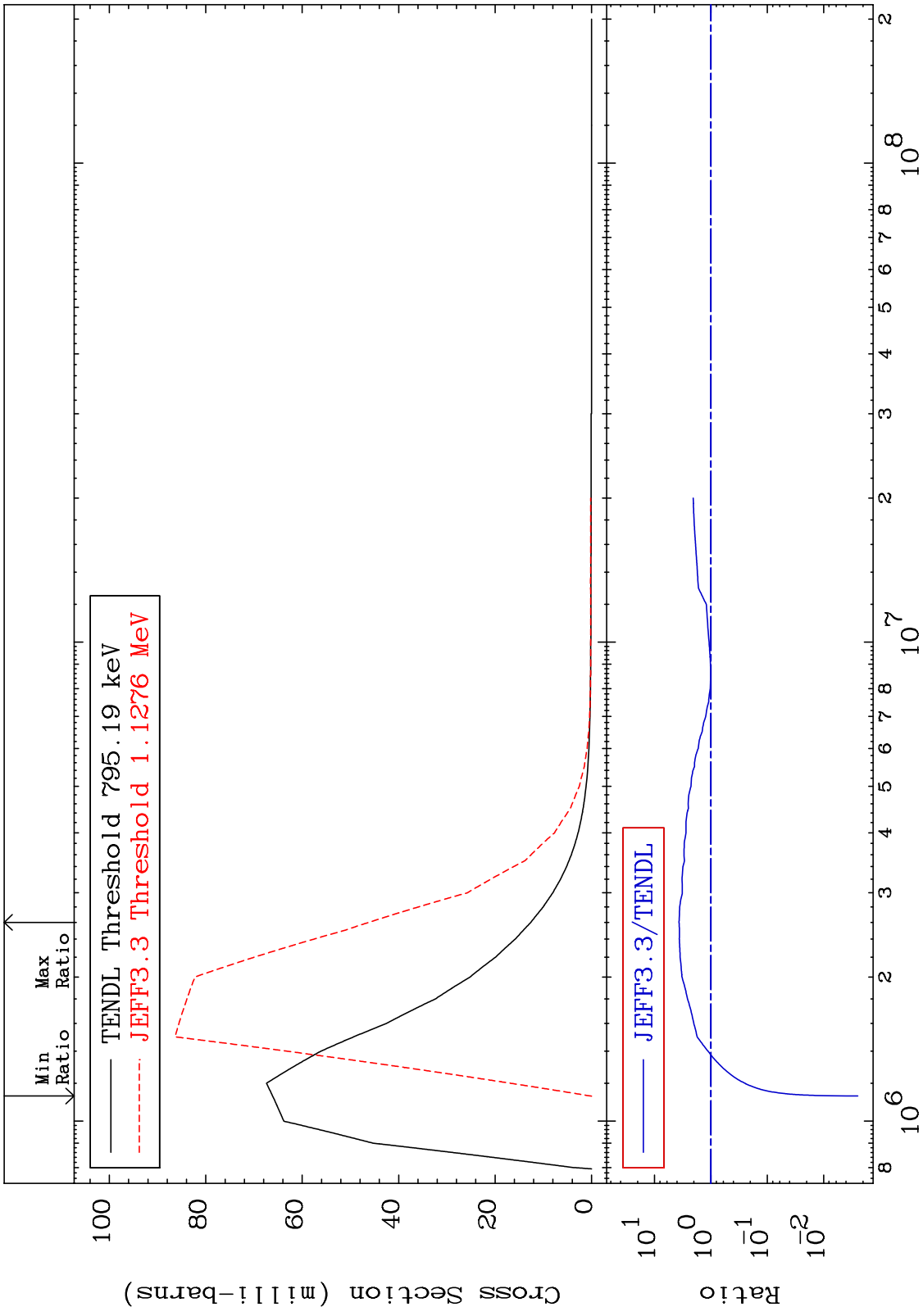
MAT 4240 MT= 60 (n,n') Level Cross Section -99.98 To 9999. % 42-Mo-97



MAT 4240 MT= 61 (n,n') Level Cross Section 42-Mo-97
 -99.97 To 24.27 %

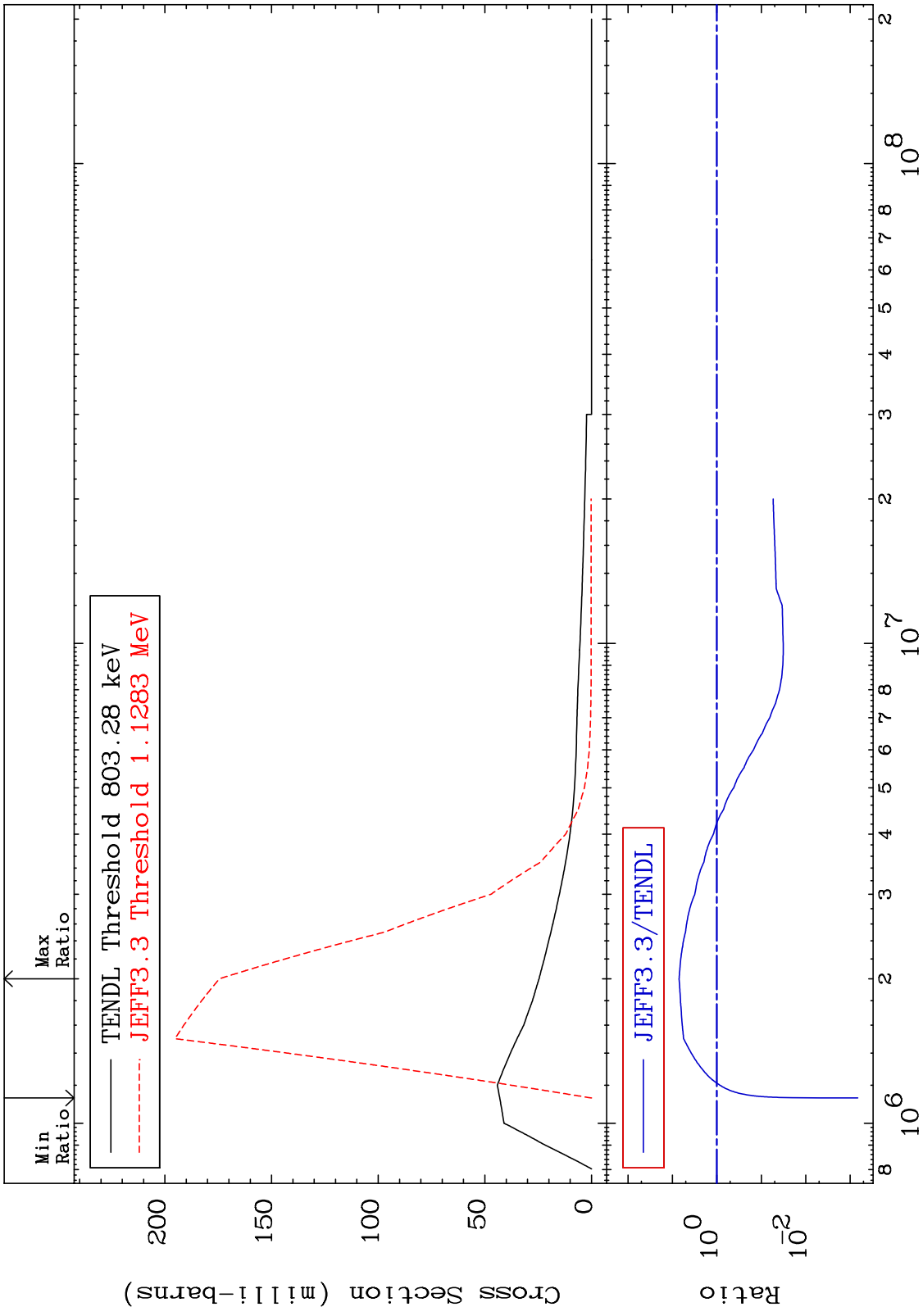


MAT 4240 MT= 62 (n,n') Level Cross Section 42-Mo-97
 -99.75 To 267.3 %

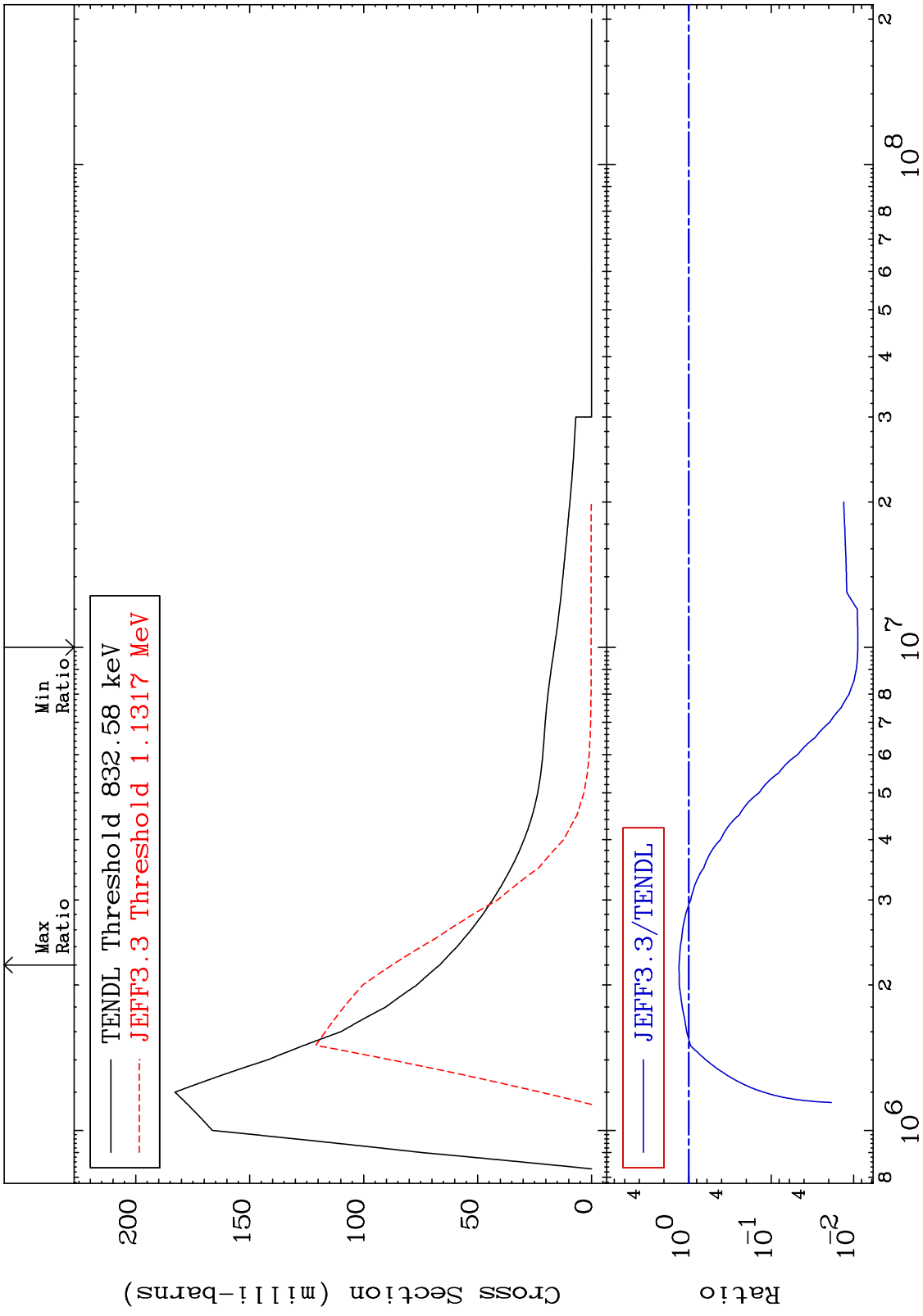


20 Incident Energy (eV) 42-Mo-97

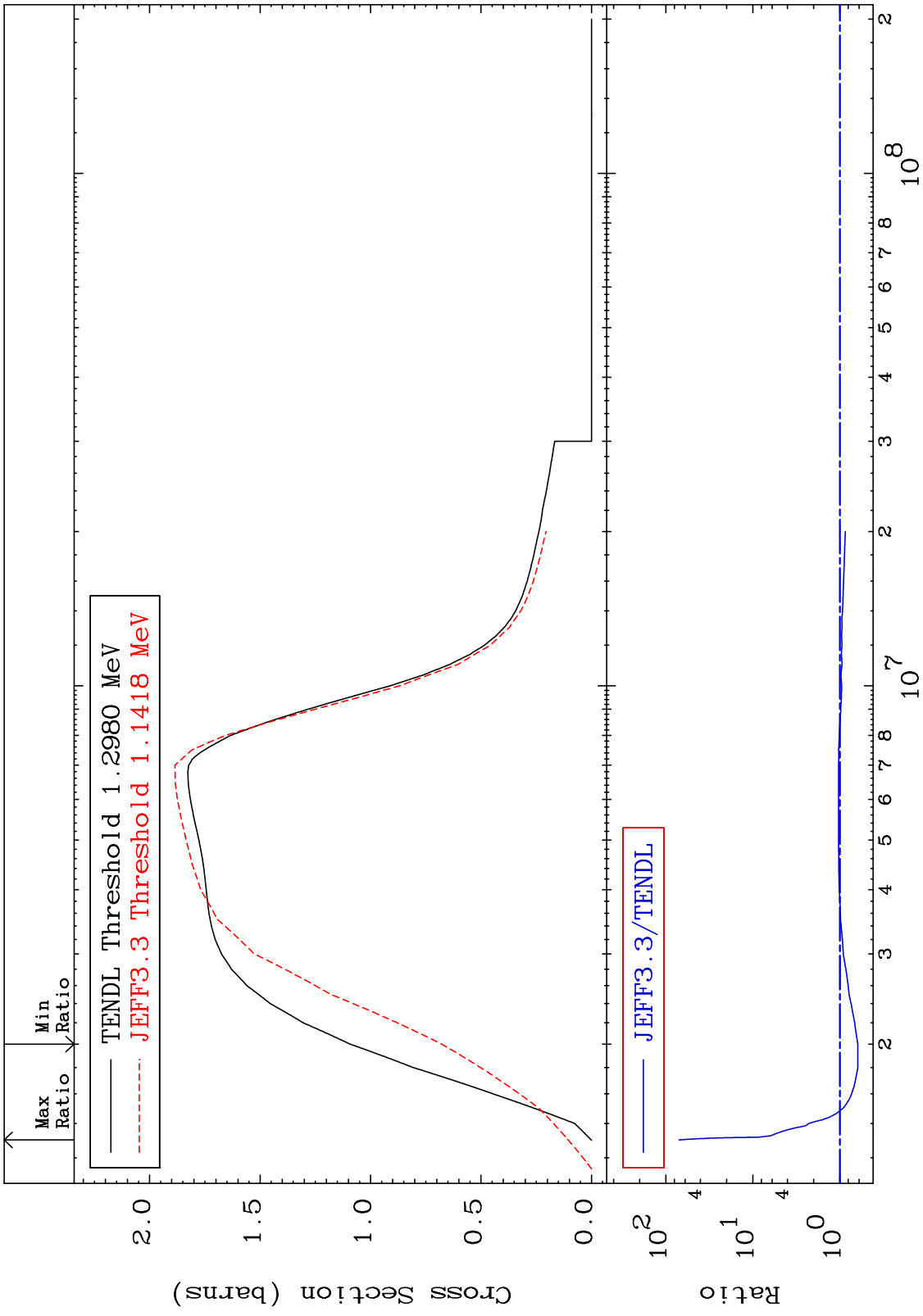
MAT 4240 MT= 63 (n,n') Level Cross Section 42-Mo-97
 -99.93 To 609.0 %



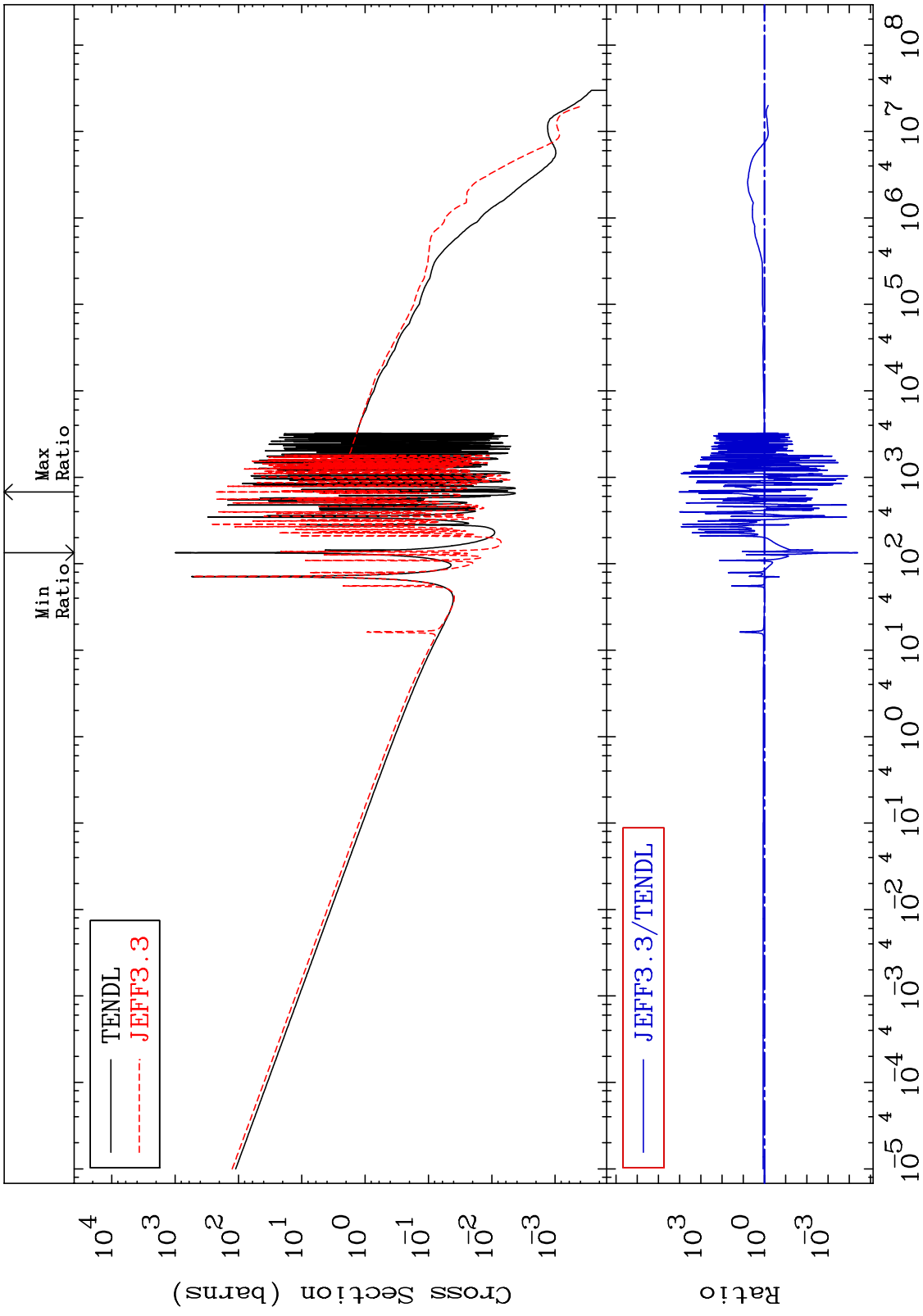
MAT 4240 MT= 64 (n,n') Level Cross Section -99.11 To 31.27 % 42-Mo-97



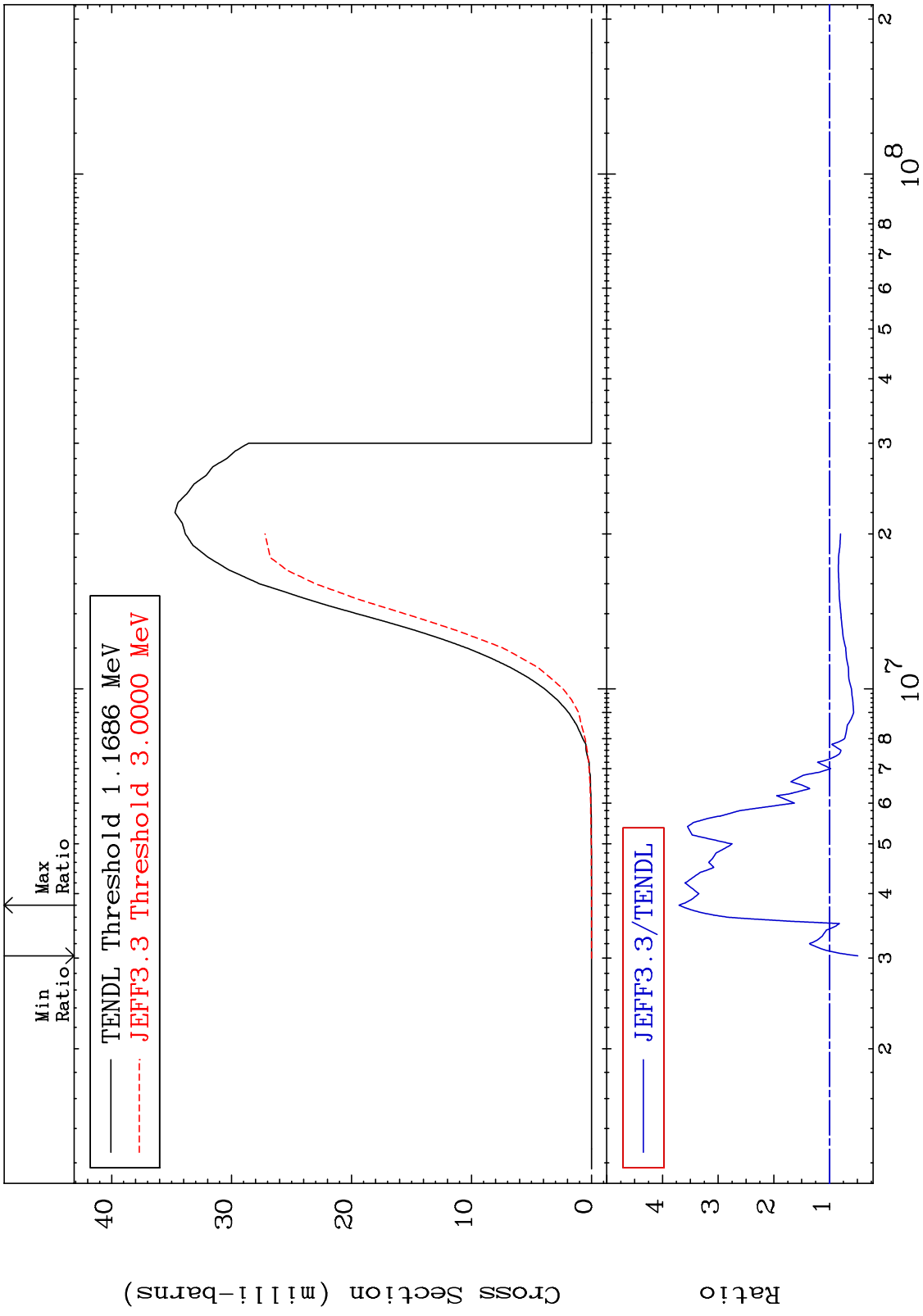
MAT 4240 (n, n') Continuum Cross Section -37.95 To 6960. % 42-Mo-97

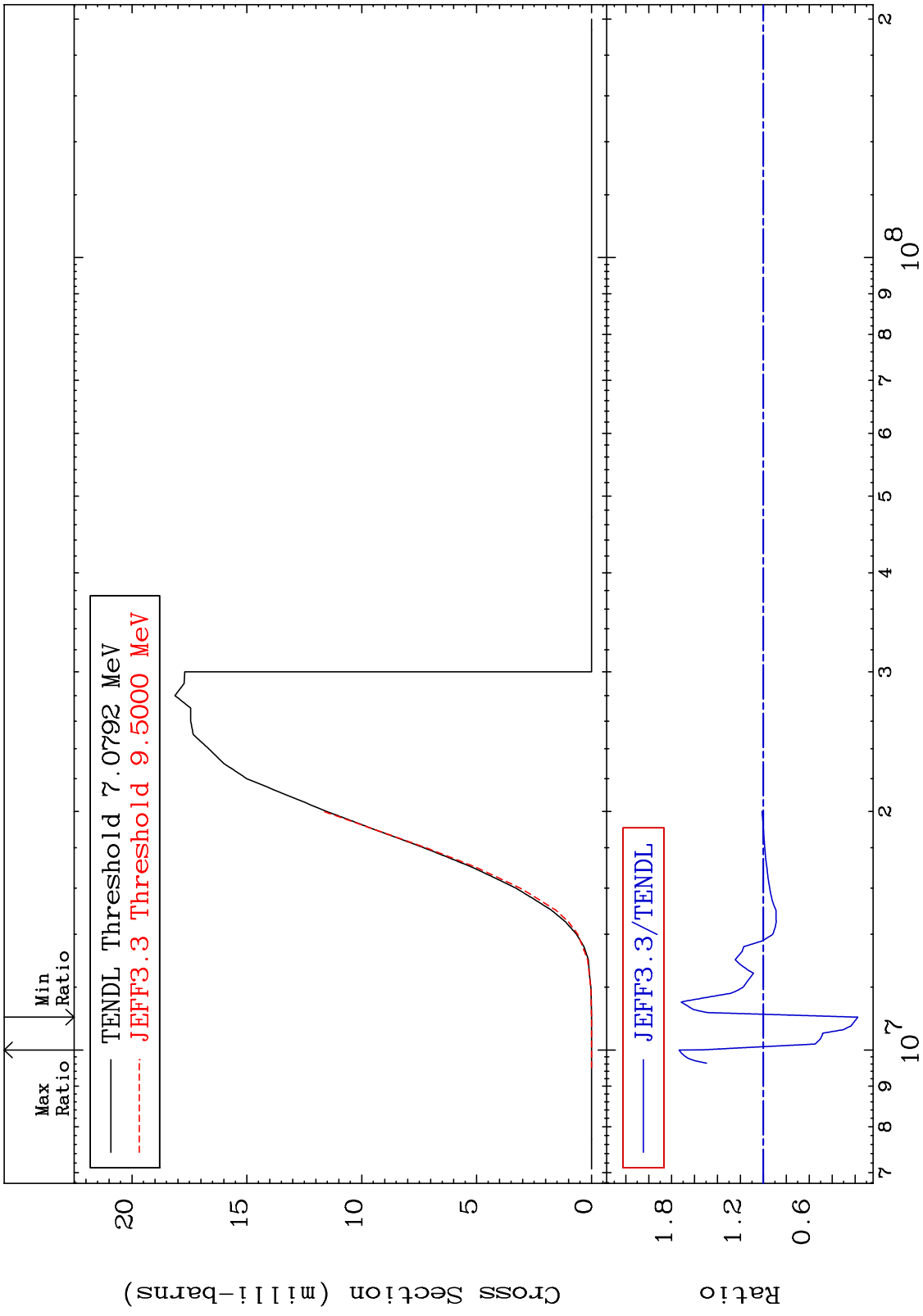


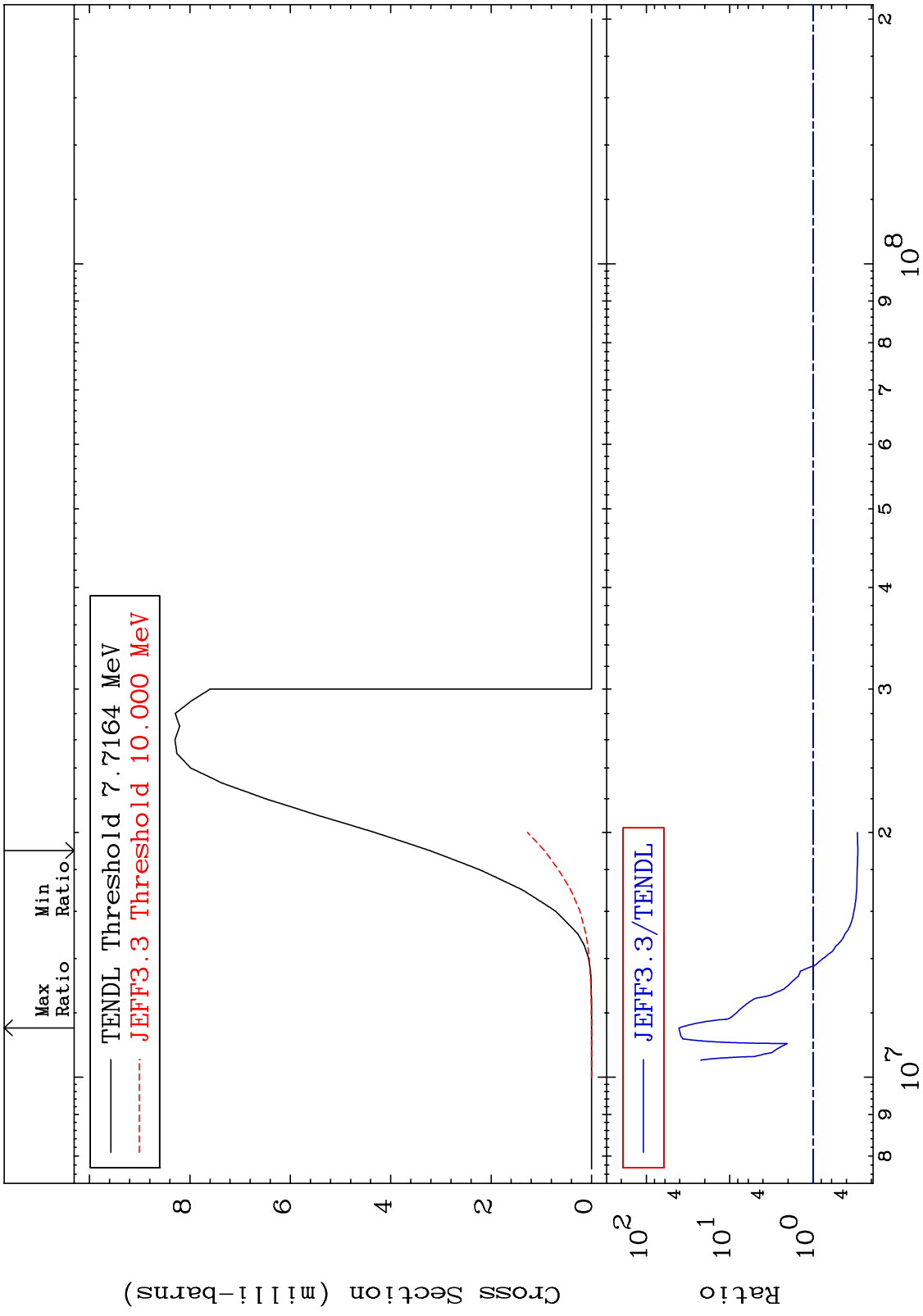
MAT 4240 (n, γ) Cross Section 42-Mo-97 -100.0 To 9999. %

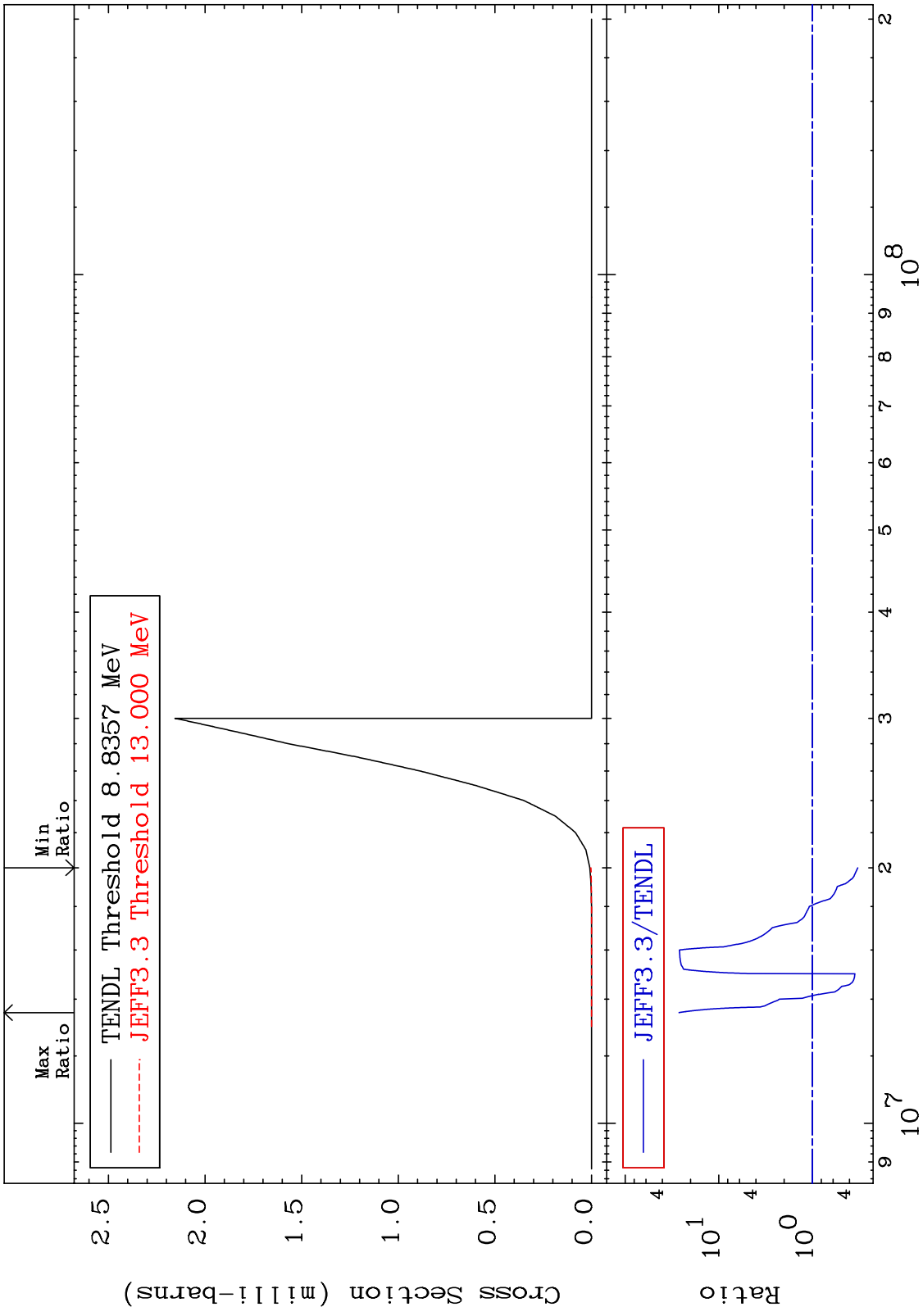


MAT 4240 (n,p) Cross Section 42-Mo-97 -50.85 To 270.3 %







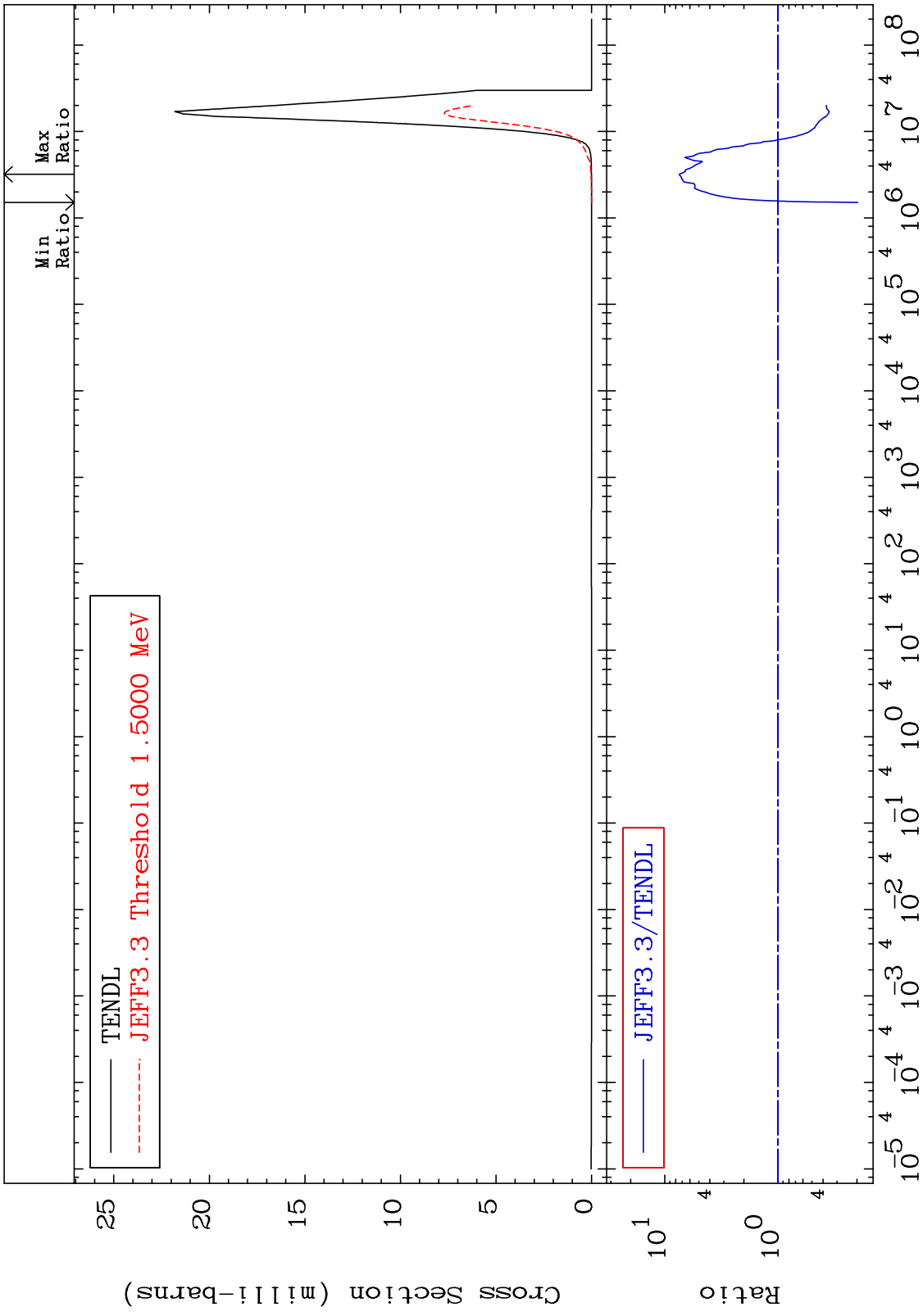


Max Ratio
Min Ratio

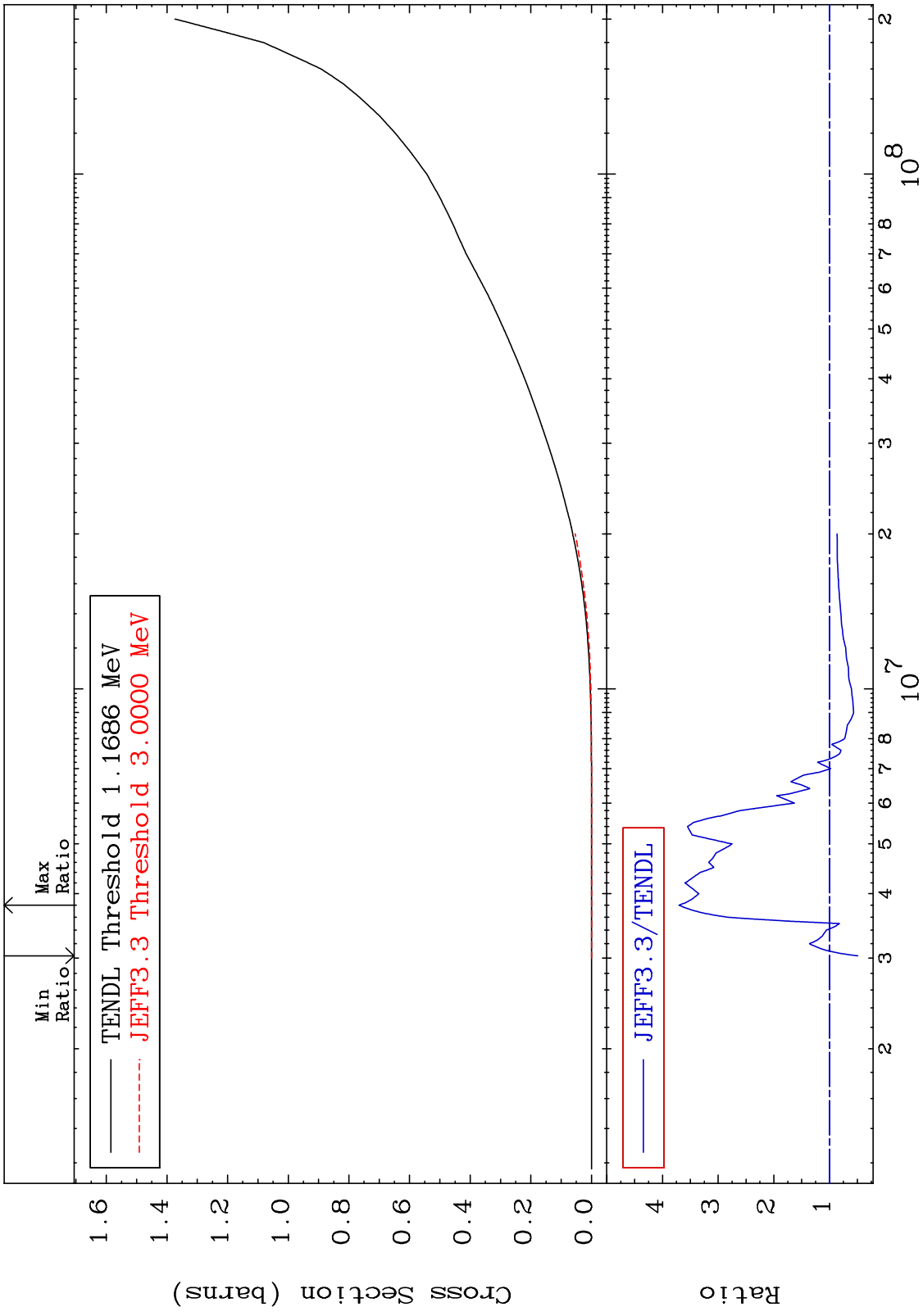
— TENDL Threshold 8.8357 MeV
- - - JEFF3.3 Threshold 13.000 MeV

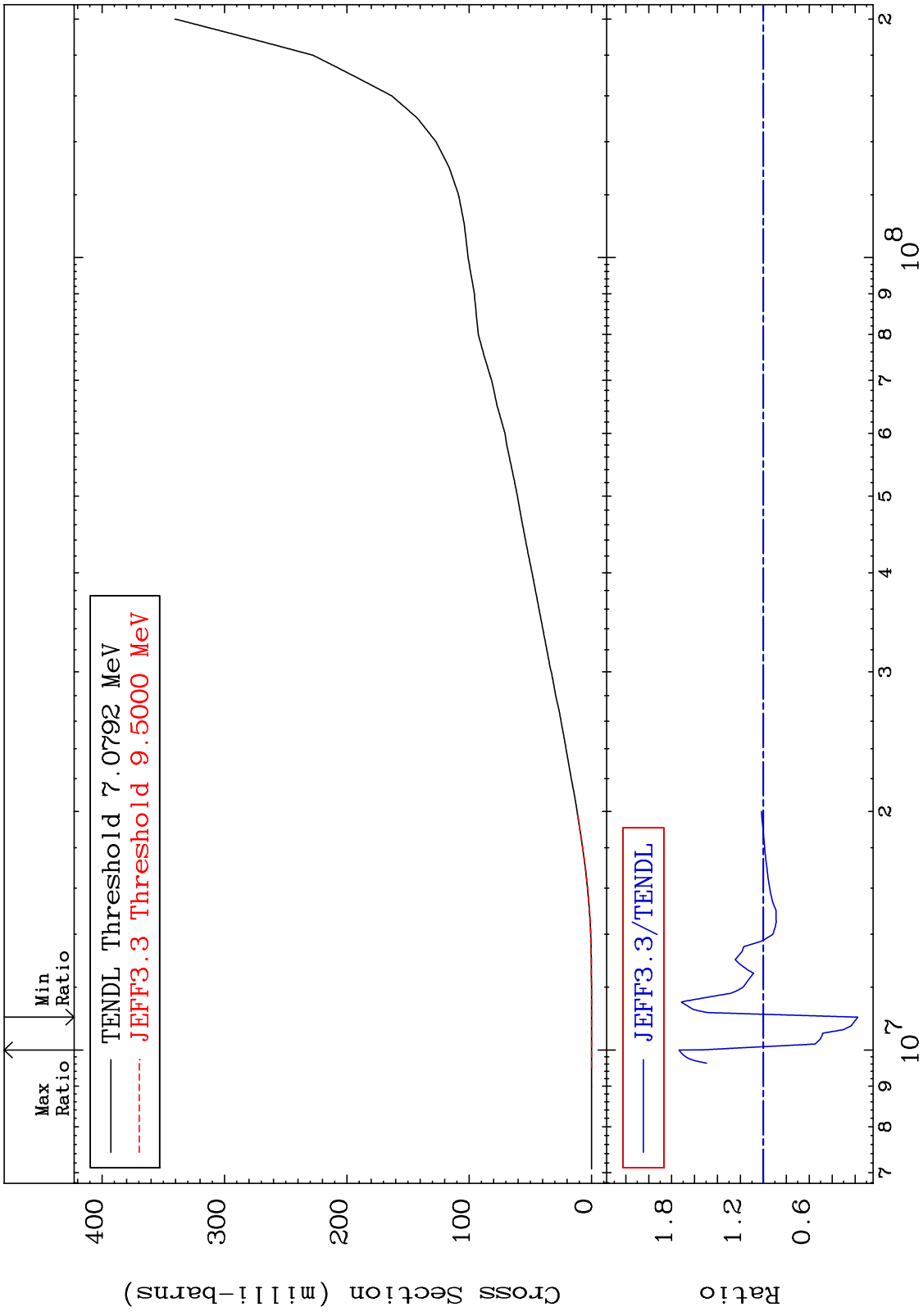
— JEFF3.3/TENDL

MAT 4240 (n, α) Cross Section 42-Mo-97
 -80.33 To 646.7 %



Incident Energy (eV) 42-Mo-97

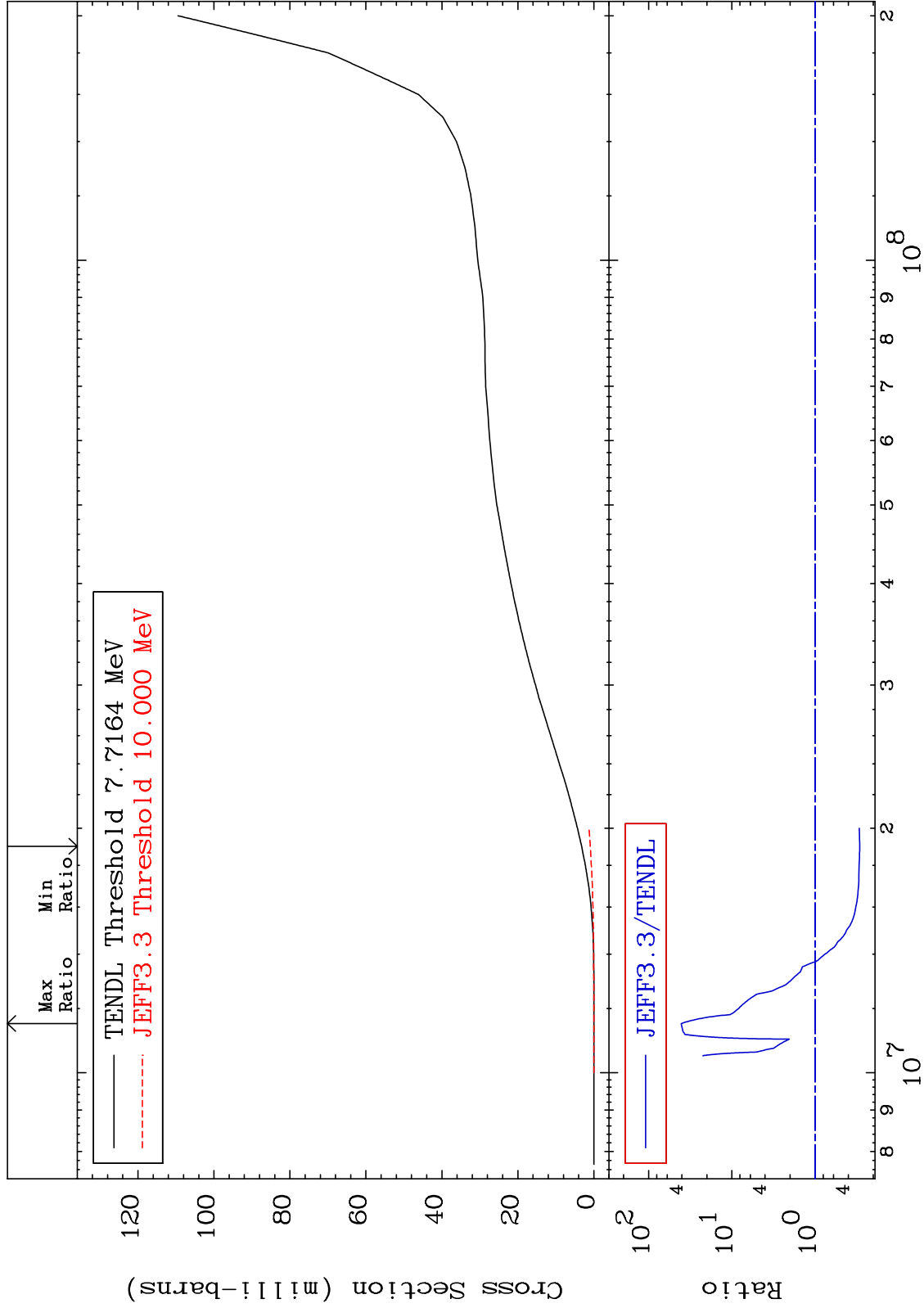




MAT 4240

Tritium Production
Cross Section

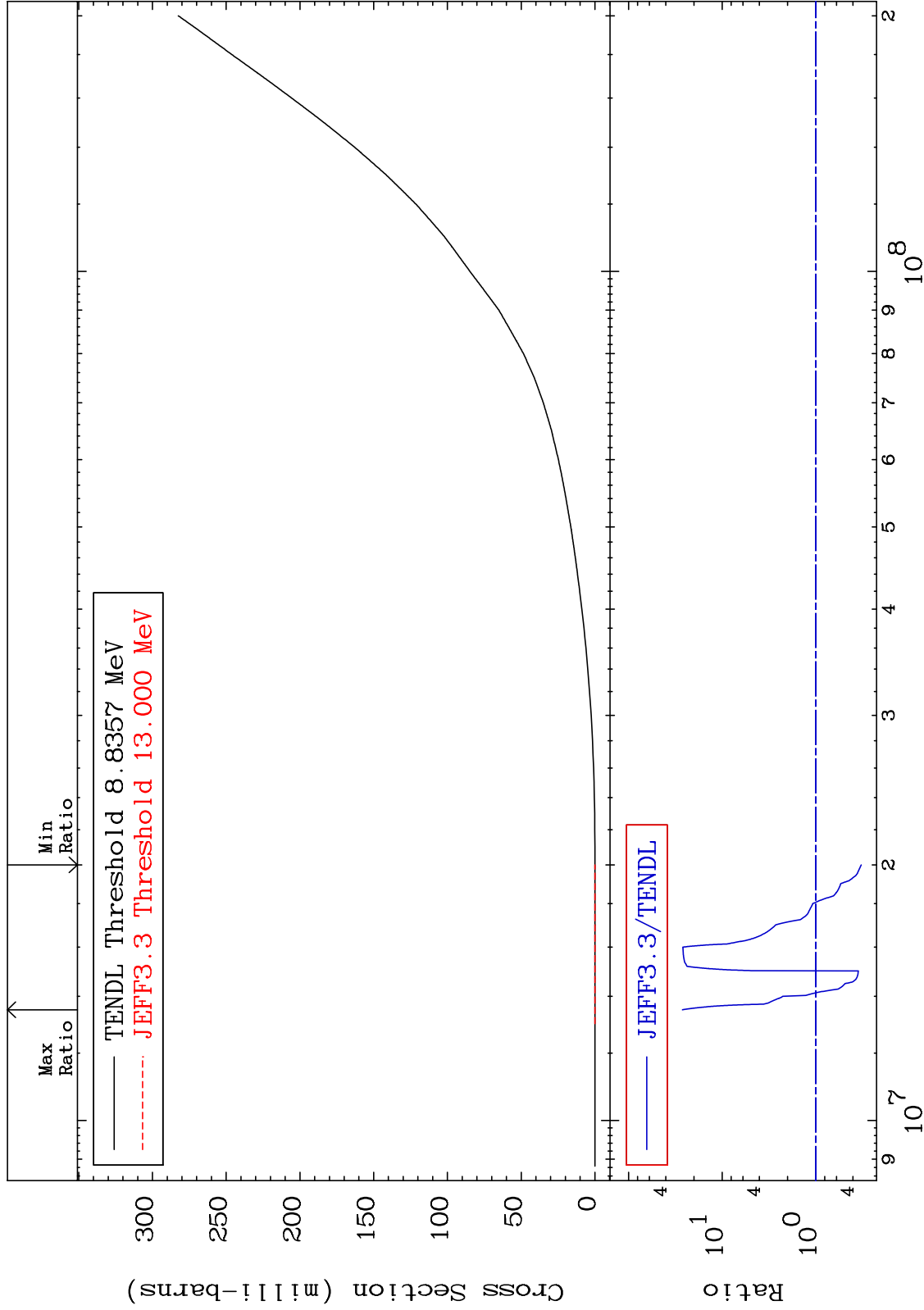
42-Mo-97
-70.90 To 3962. %



MAT 4240

He-3 Production
Cross Section

42-Mo-97
-67.41 To 2555. %



33

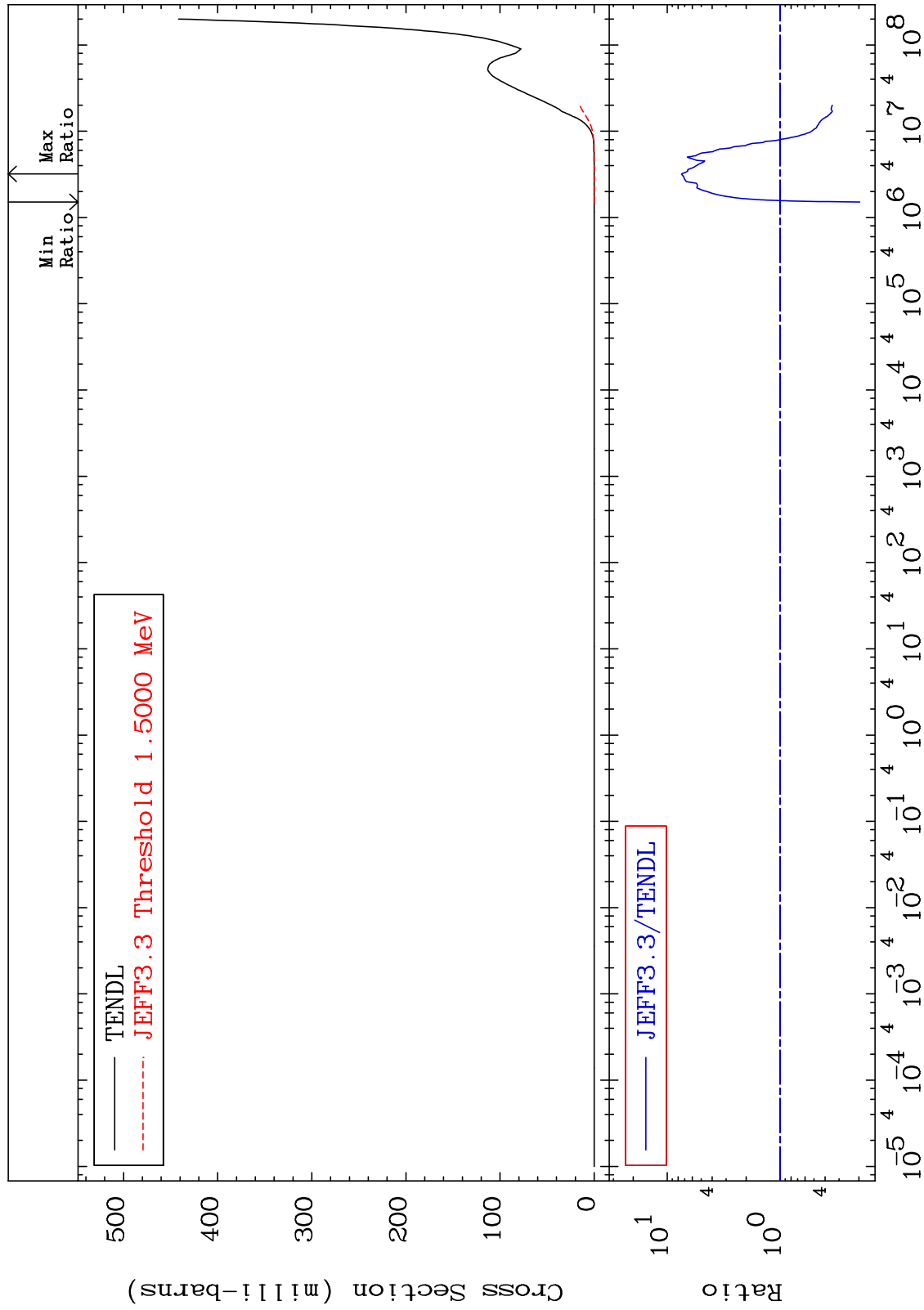
Incident Energy (eV)

42-Mo-97

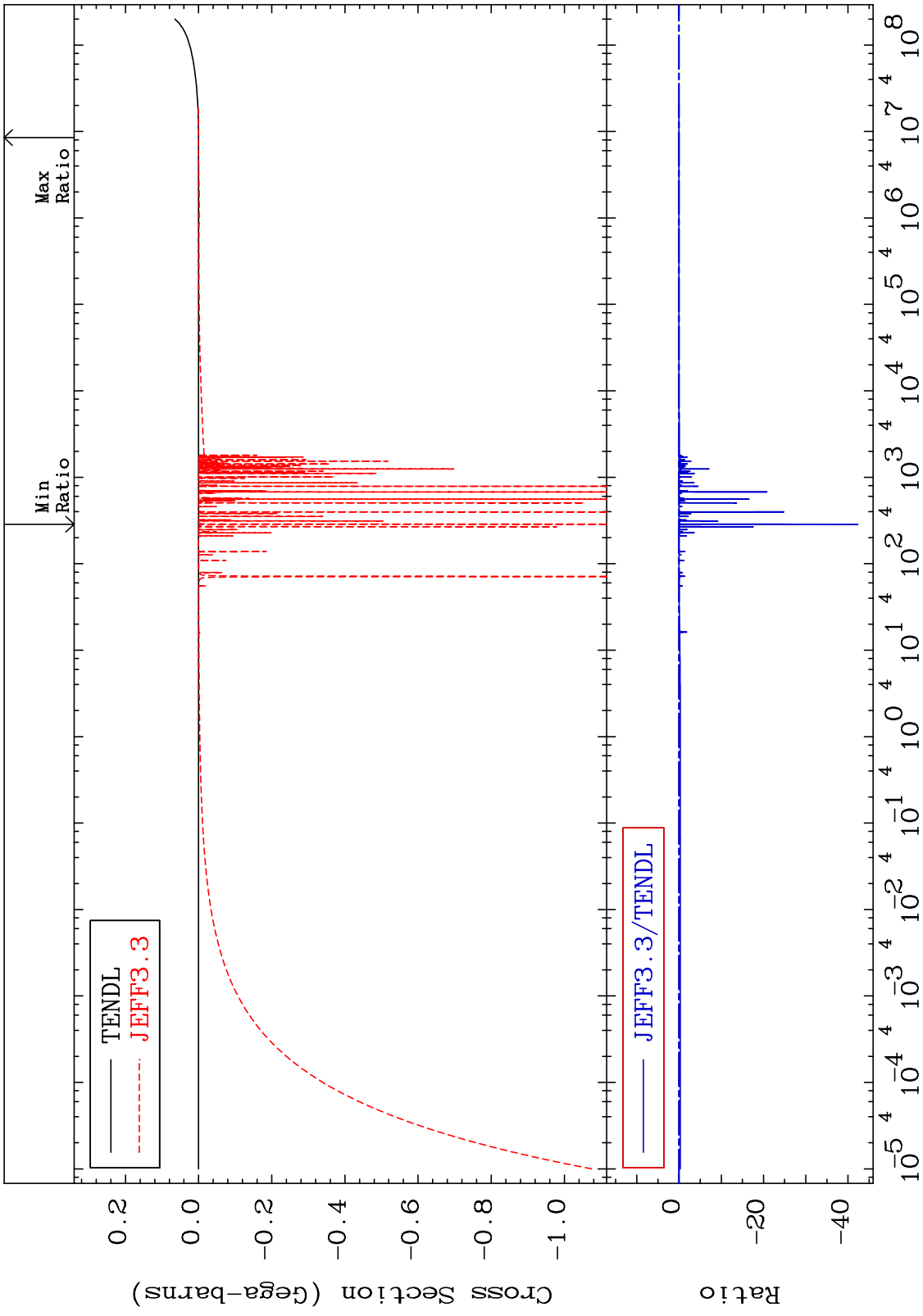
MAT 4240

He-4 Production
Cross Section

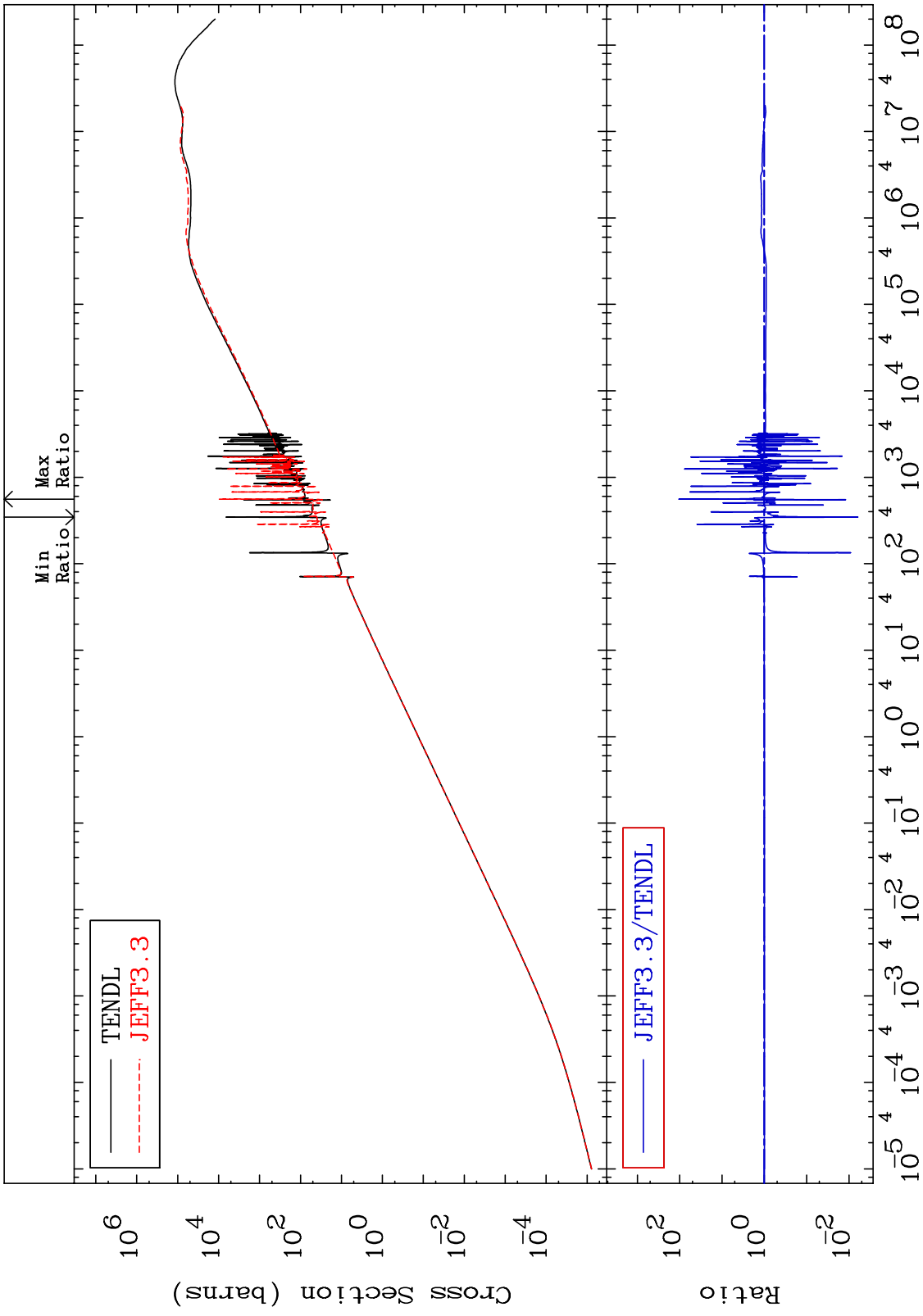
42-Mo-97
-80.33 To 646.7 %



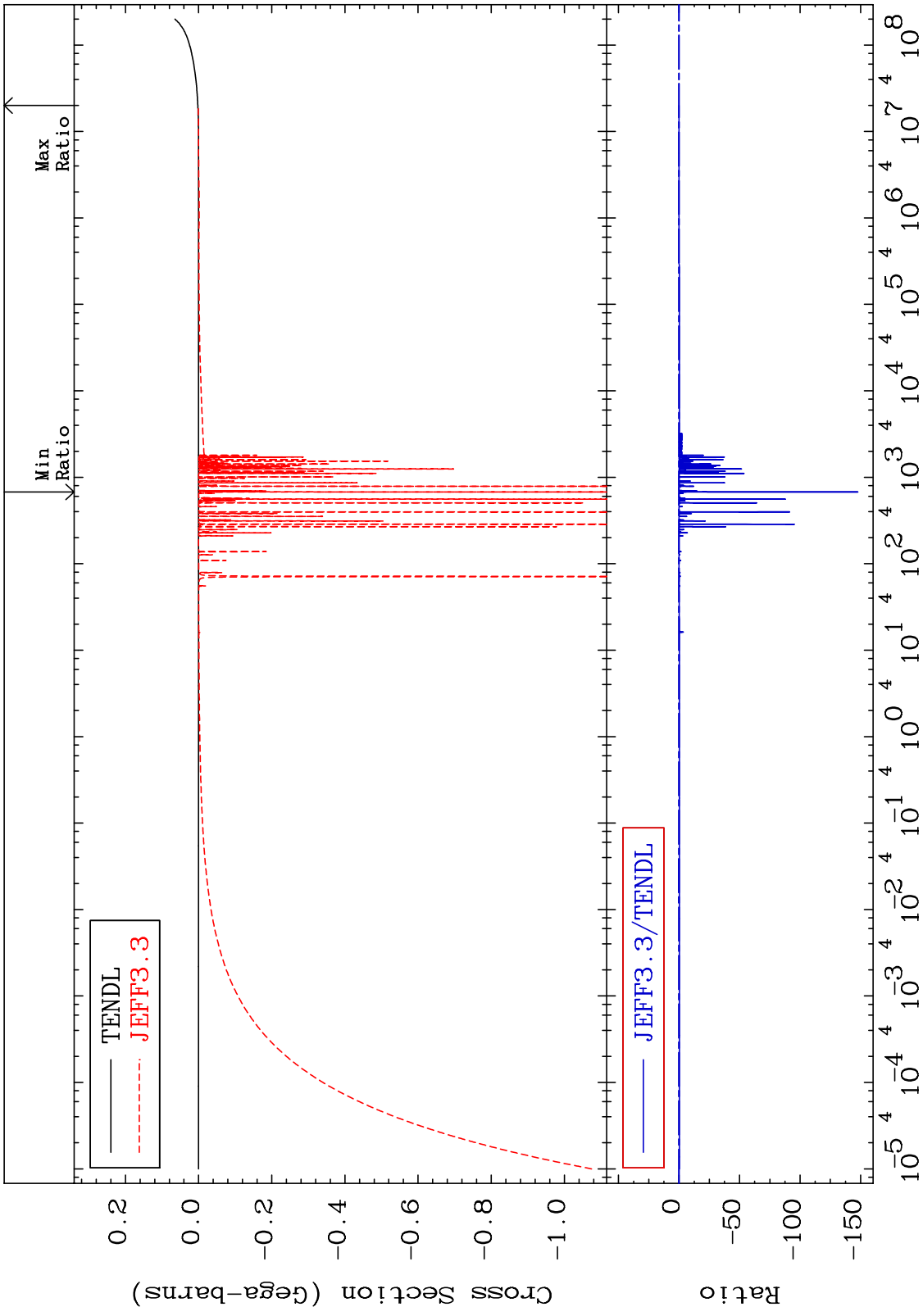
MAT 4240 Kerma total (eV-barns) 42-Mo-97
 Cross Section -9999. To -37.45%

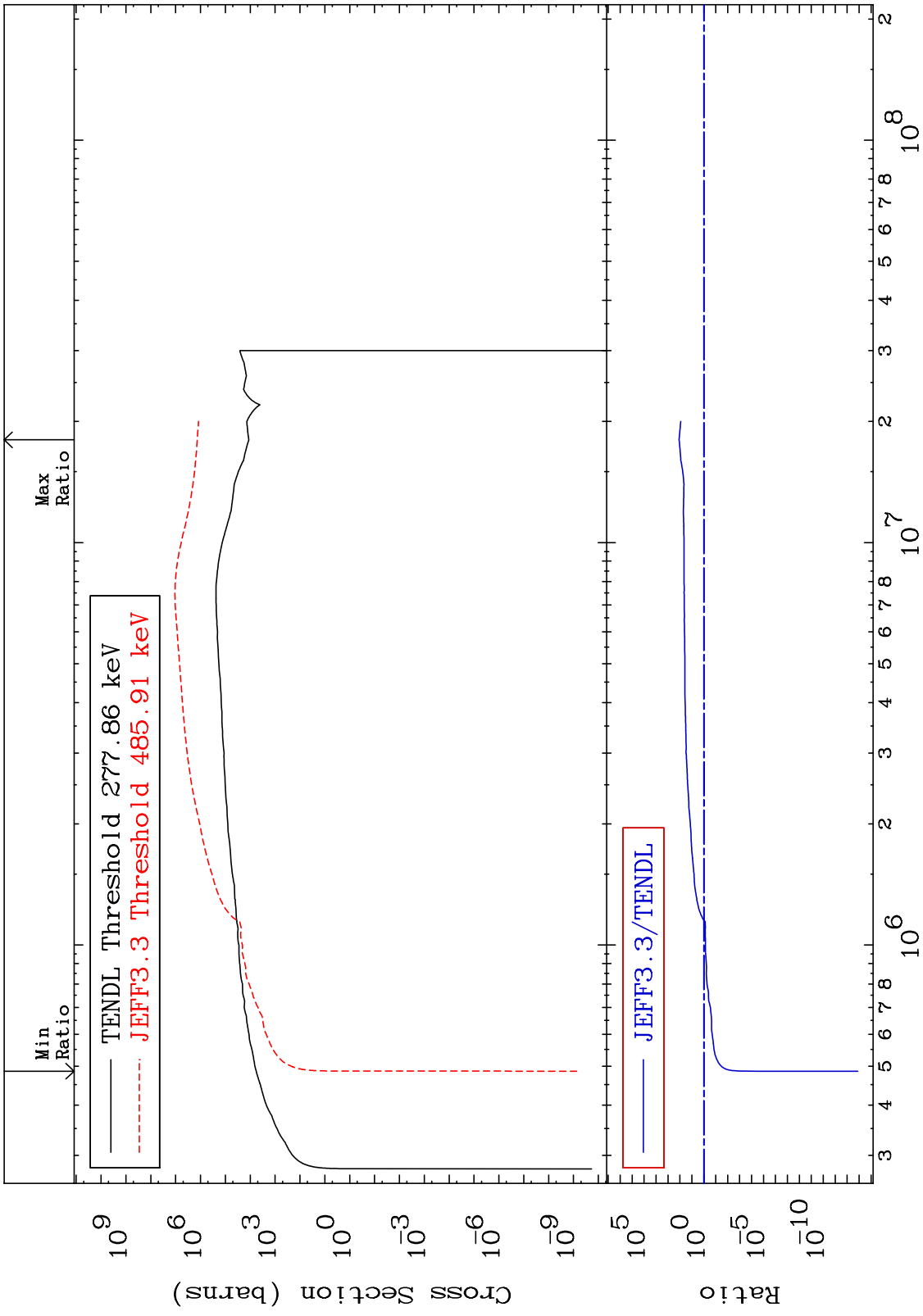


MAT 4240
Kerma elastic Cross Section
42-Mo-97
-99.38 To 9999. %



MAT 4240 Kerma non-elastic (all but mt.2) 42-Mo-97
Cross Section -9999. To -46.45%

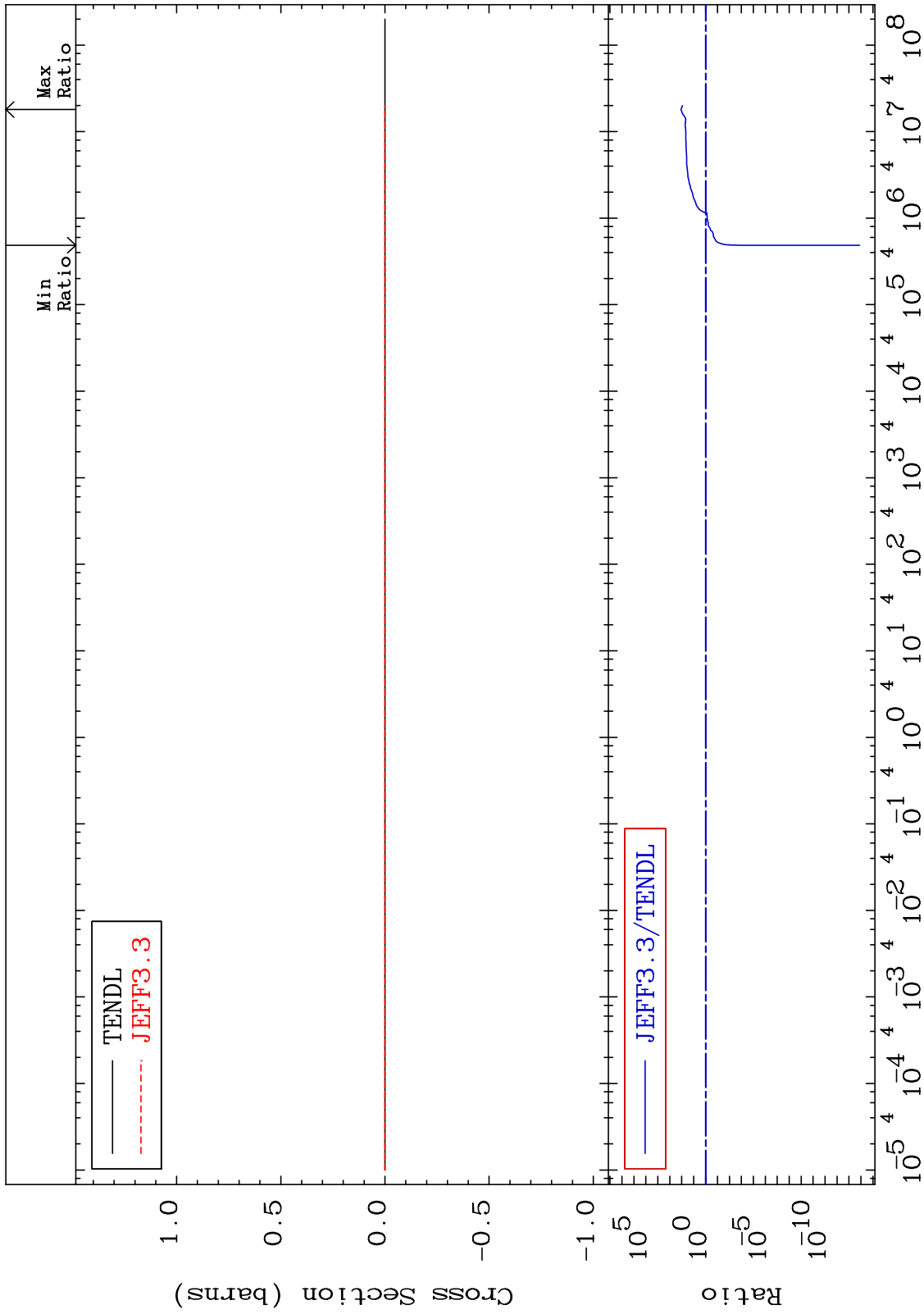




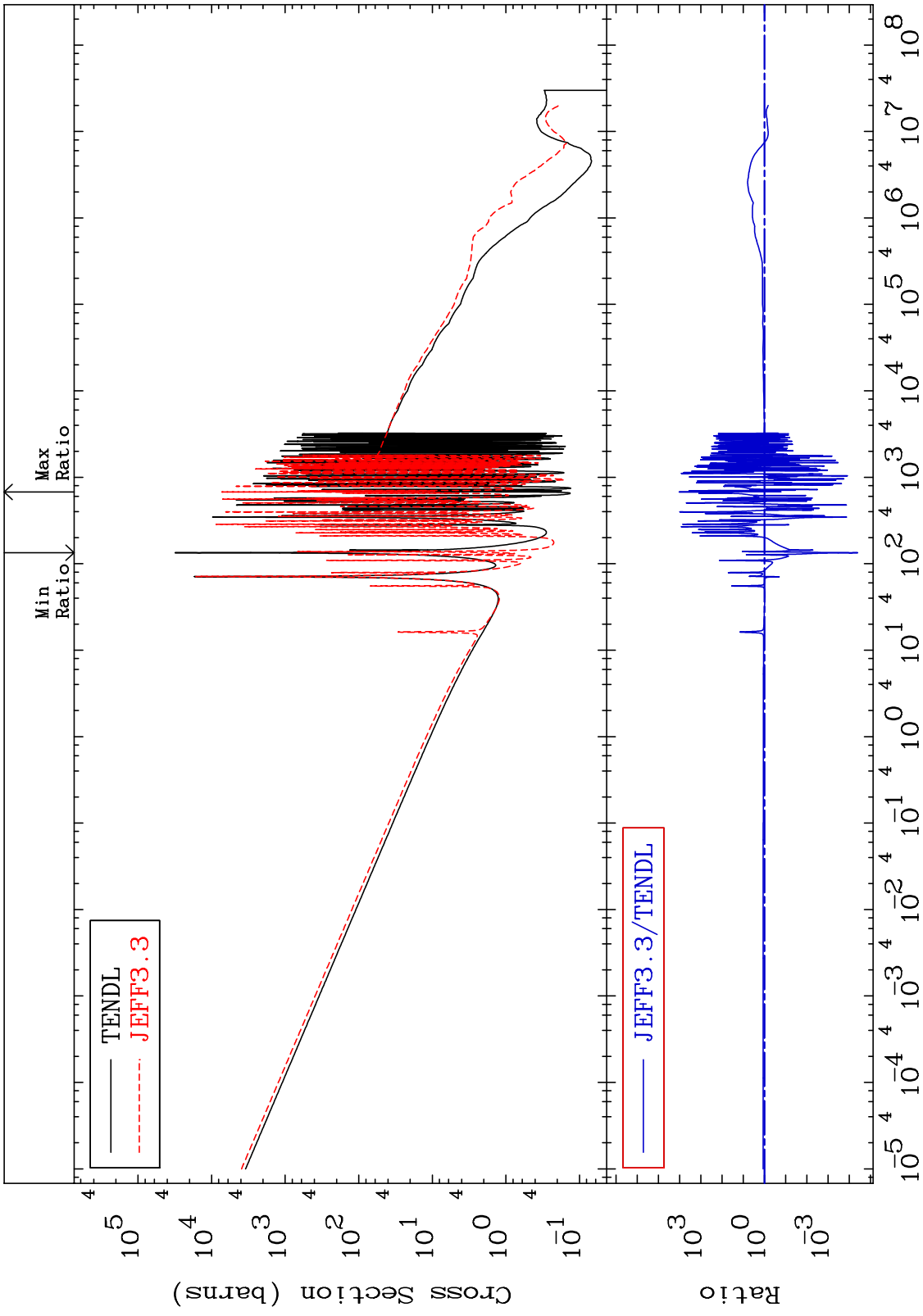
MAT 4240

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

42-Mo-97
-100.0 To 9999. %

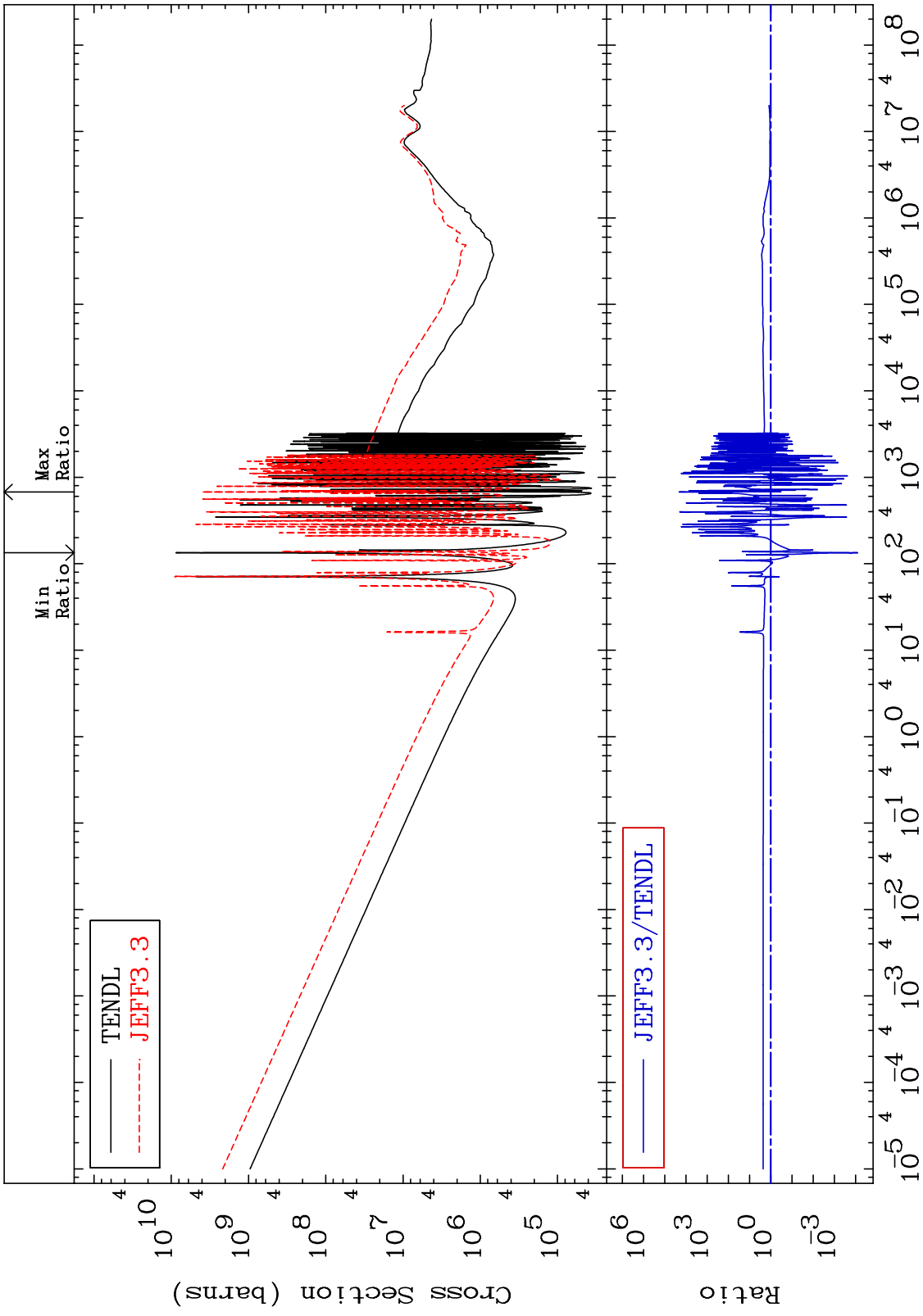


MAT 4240 Kerma capture (mt102) 42-Mo-97
 Cross Section -100.0 To 9999. %



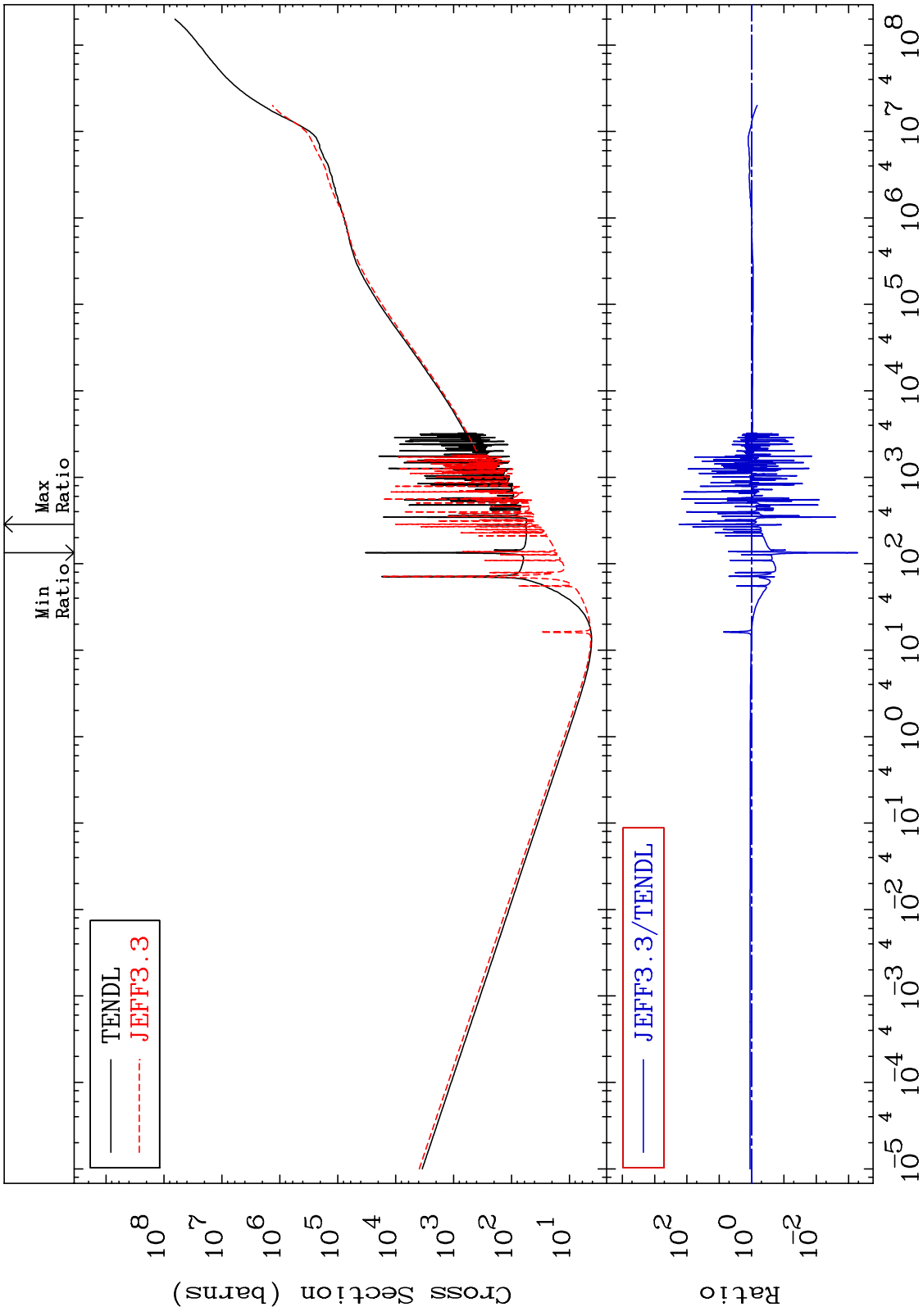
40 42-Mo-97

MAT 4240 42-Mo-97
 Total photon (eV-barns) -99.99 To 9999. %
 Cross Section

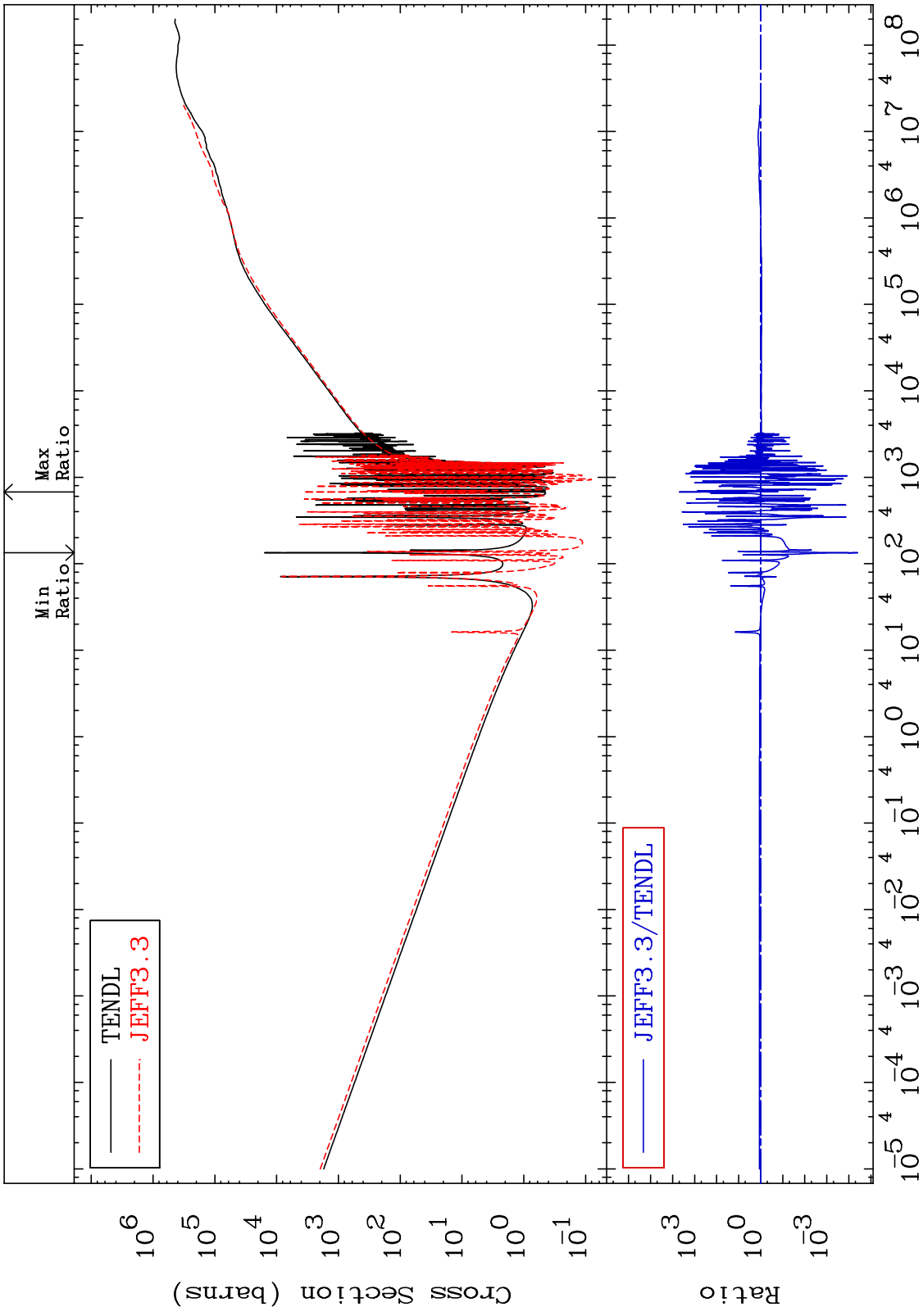


41 42-Mo-97

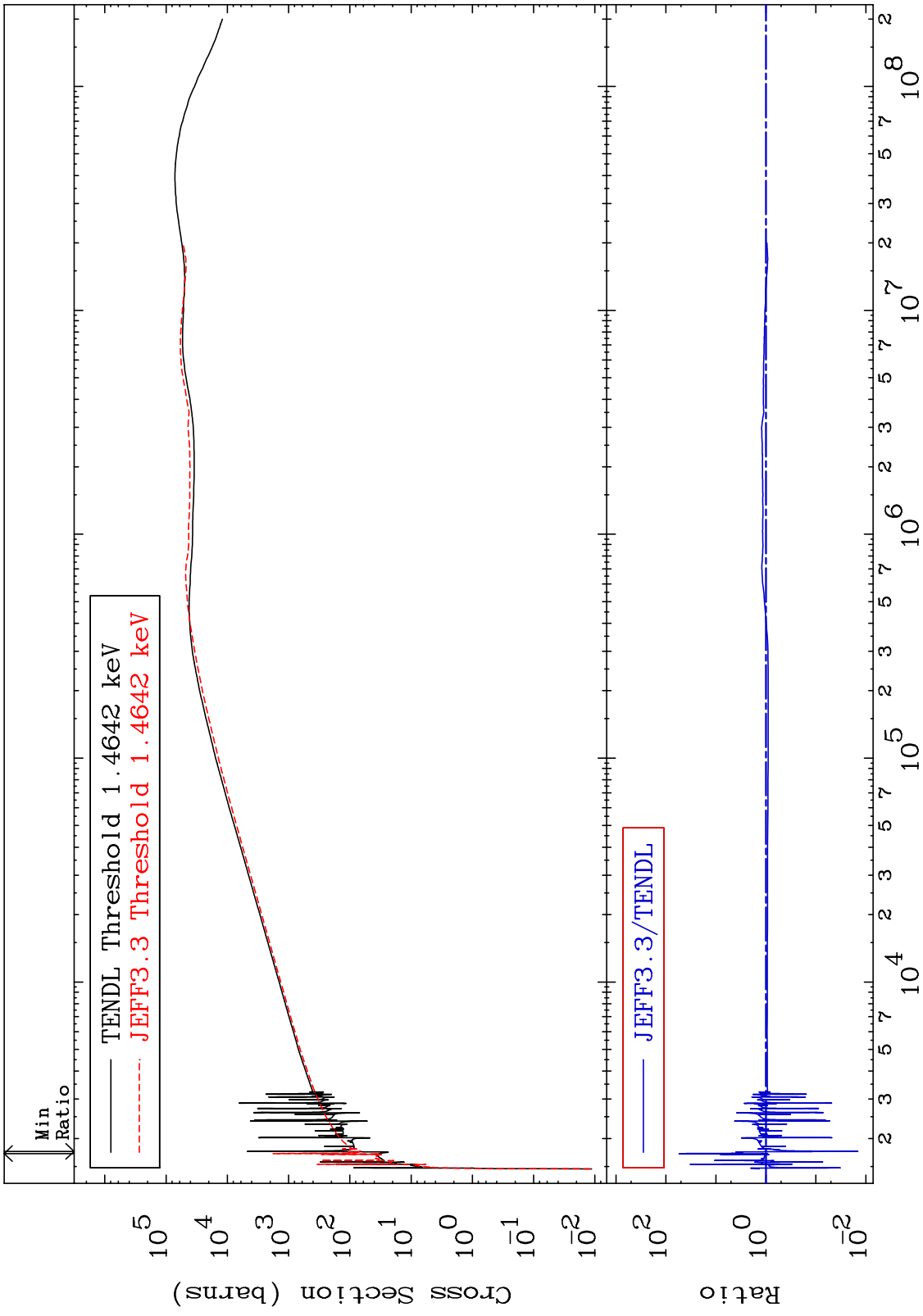
MAT 4240 Total kinematic kerma (high limit) Cross Section 42-Mo-97 -99.95 To 9999. %



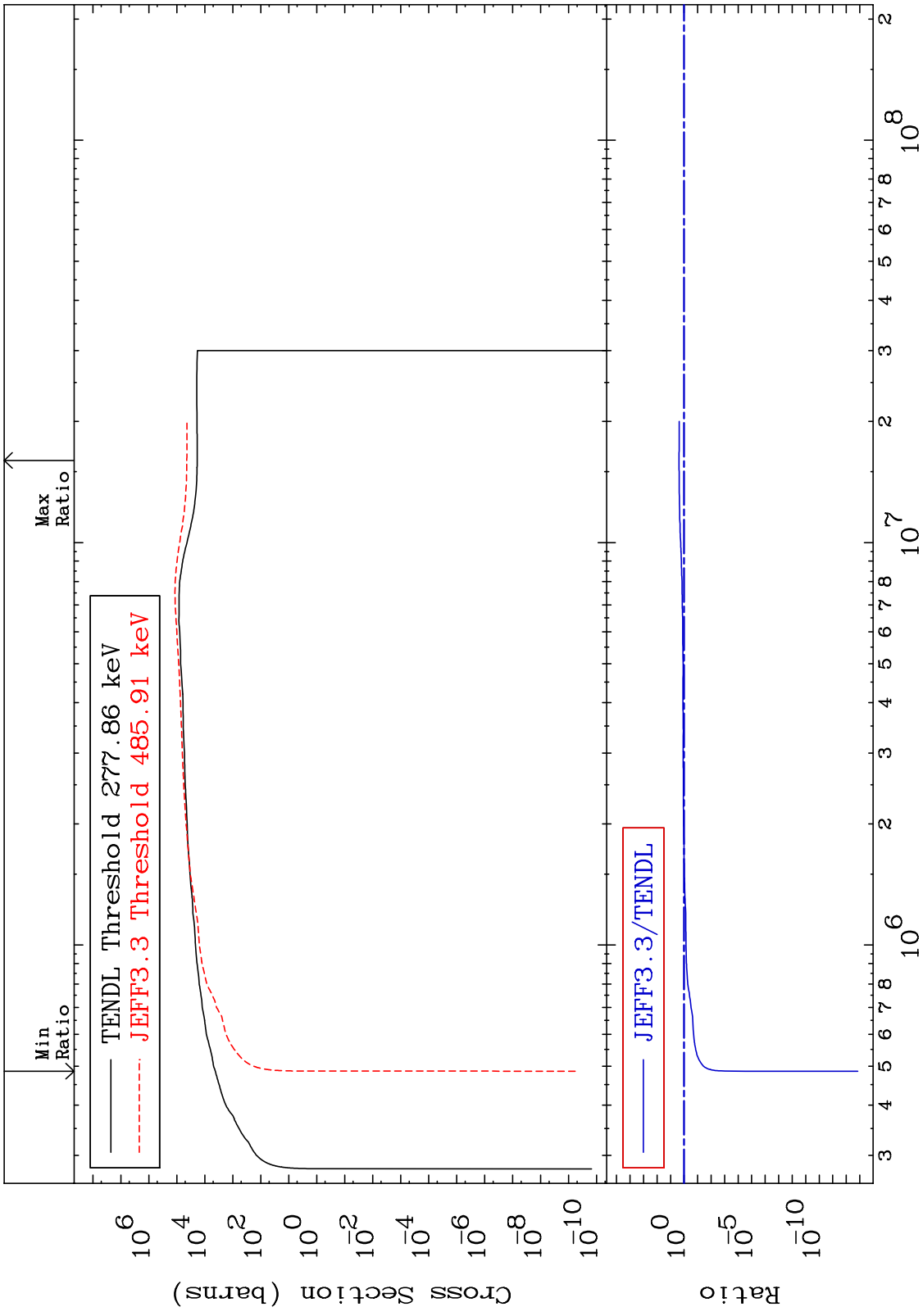
MAT 4240 Dpa total (eV-barns) 42-Mo-97
 -100.0 To 9999. %



MAT 4240 Dpa elastic (mt2) 42-Mo-97
Cross Section -98.55 To 5372. %

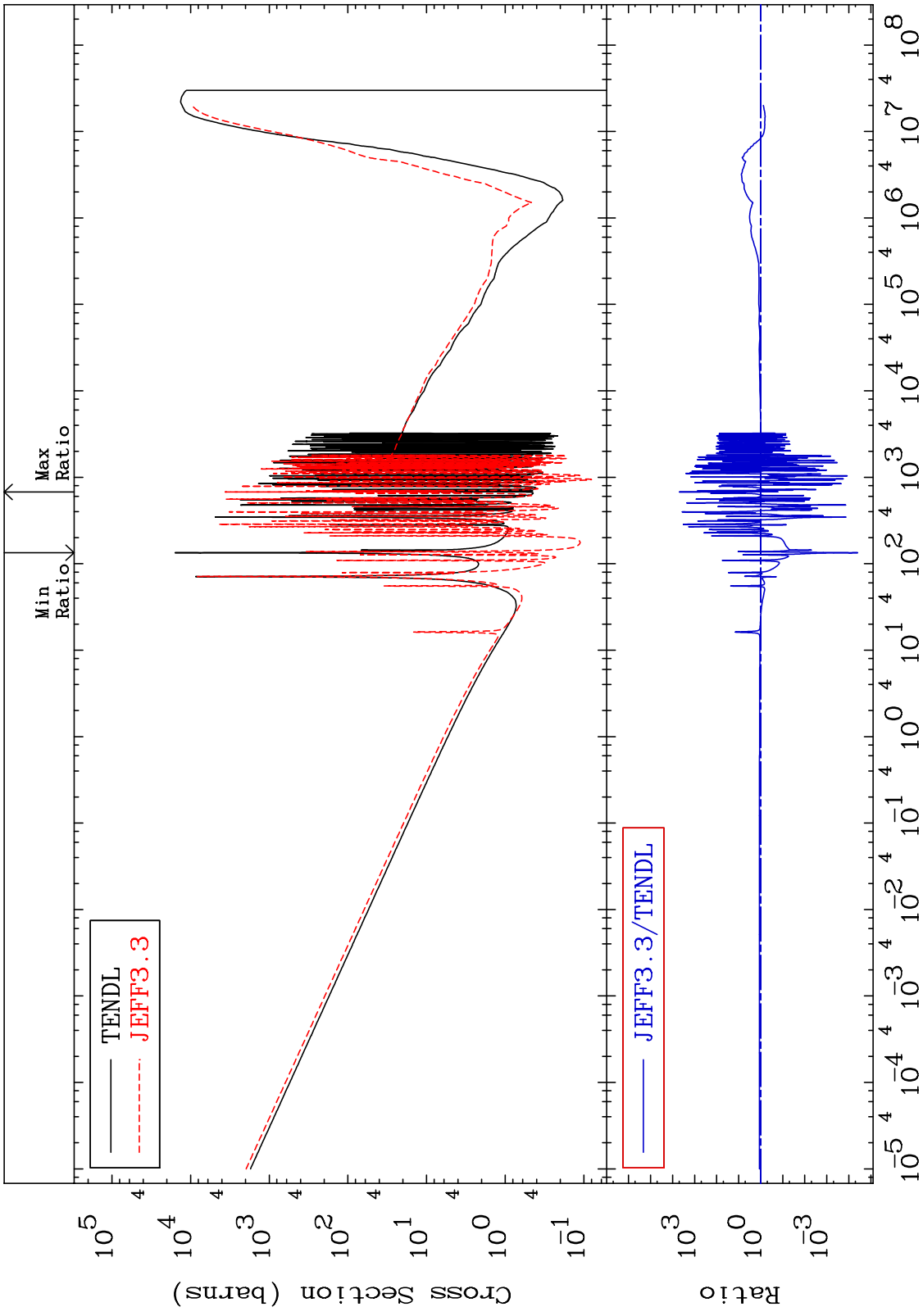


MAT 4240 Dpa inelastic (mt51-91) 42-Mo-97
 Cross Section -100.0 To 136.4 %



45 42-Mo-97 Incident Energy (eV)

MAT 4240 Dpa disappearance (mt102 -120) 42-Mo-97
 Cross Section -100.0 To 9999. %



46 Incident Energy (eV) 42-Mo-97