

Program Complot
(Version 2018-1)

by

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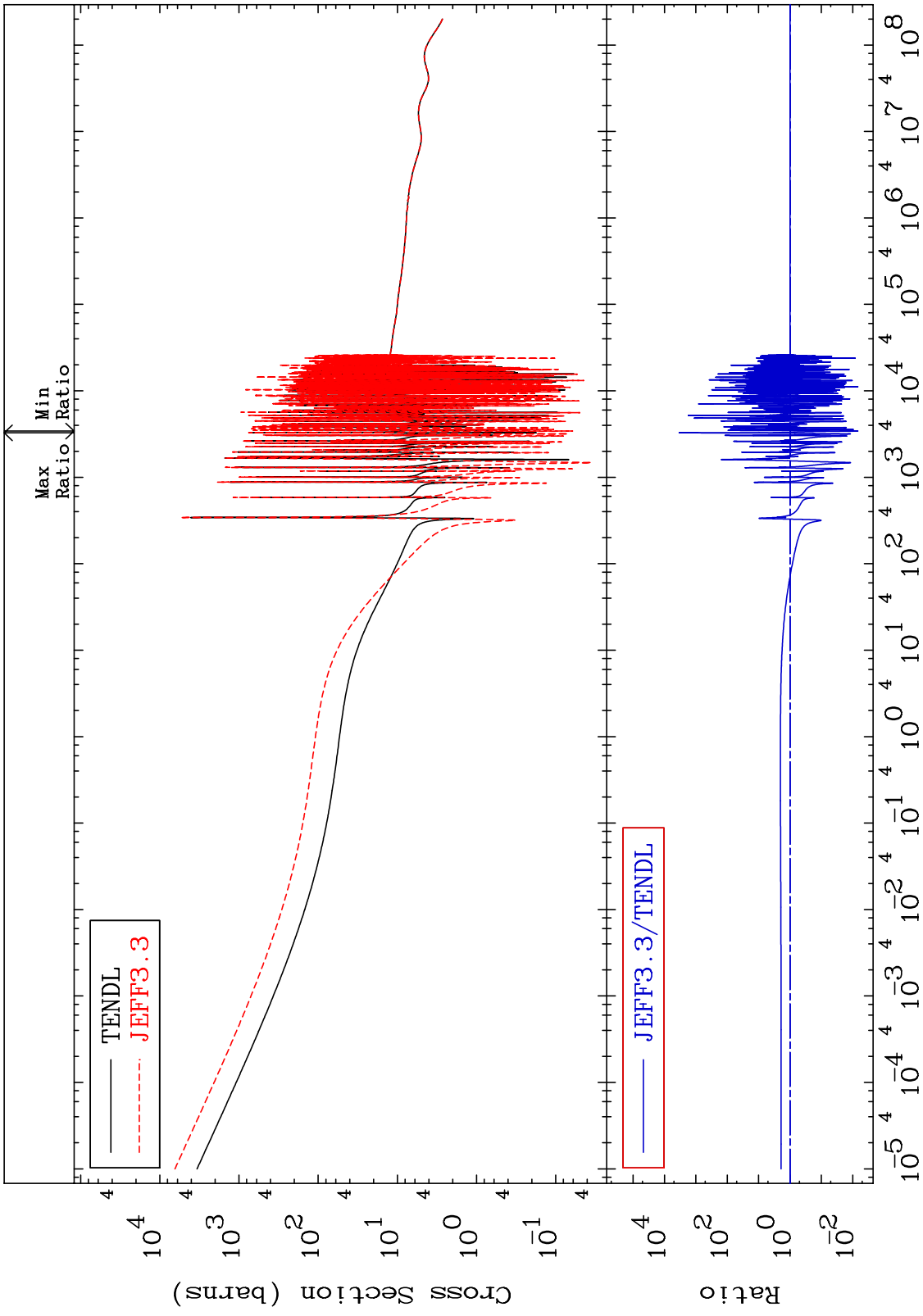
U.S.A.

Tele: 925-443-1911

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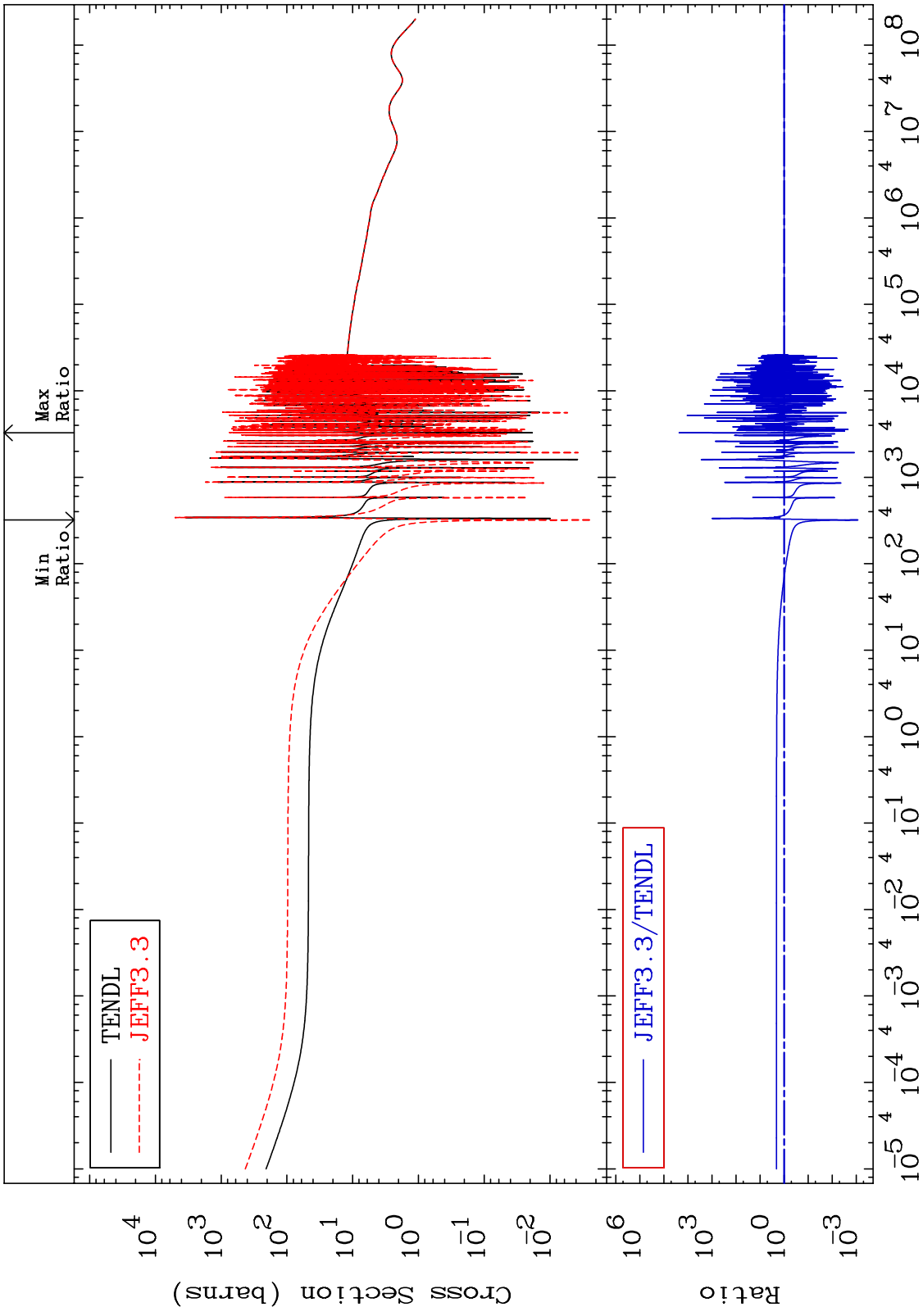
Press Mouse Button to Start

MAT 7043 Total Cross Section 70-Yb-174 -99.32 To 9999. %

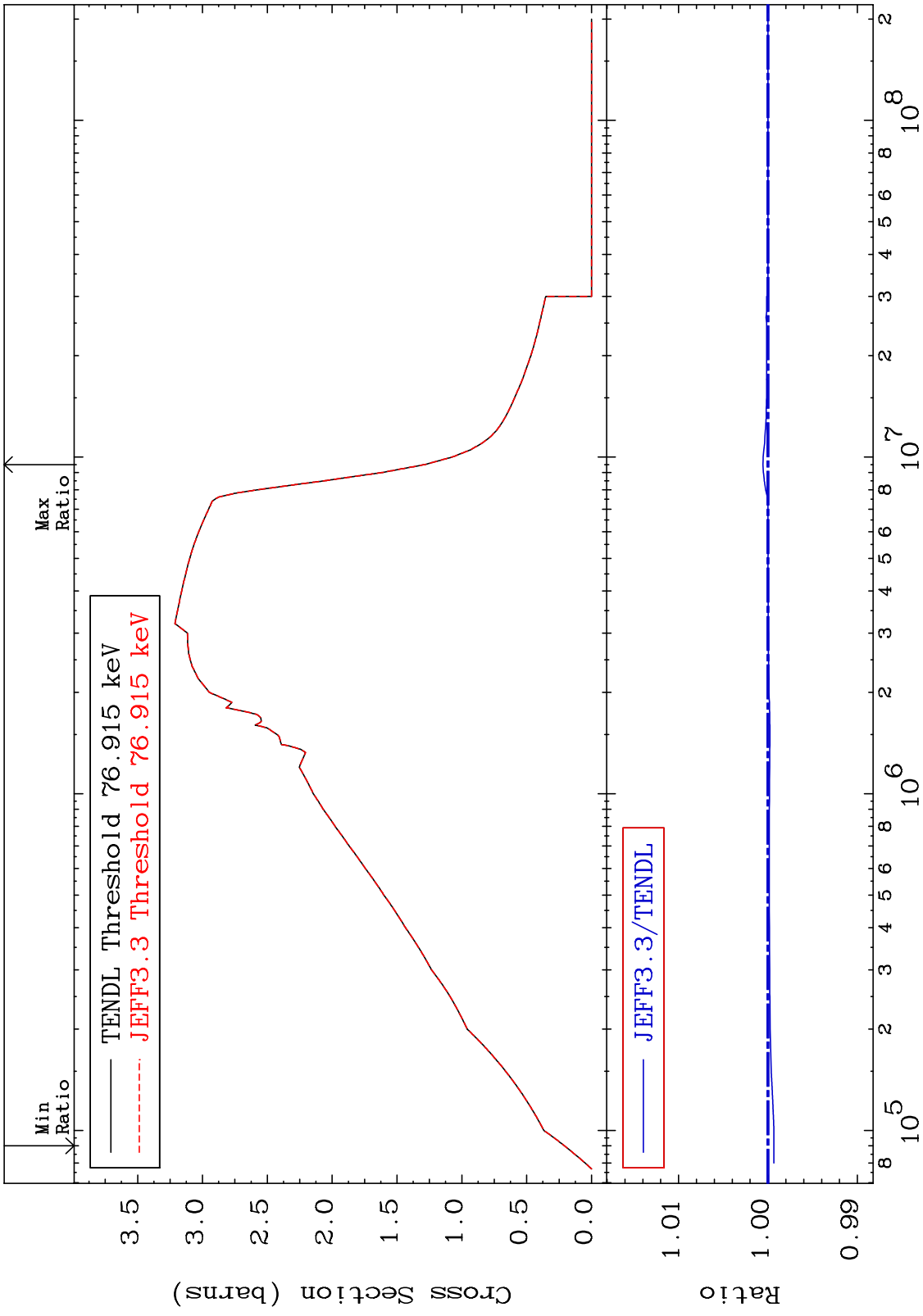


1 Incident Energy (eV) 70-Yb-174

MAT 7043 Elastic Cross Section 70-Yb-174
-99.91 To 9999. %

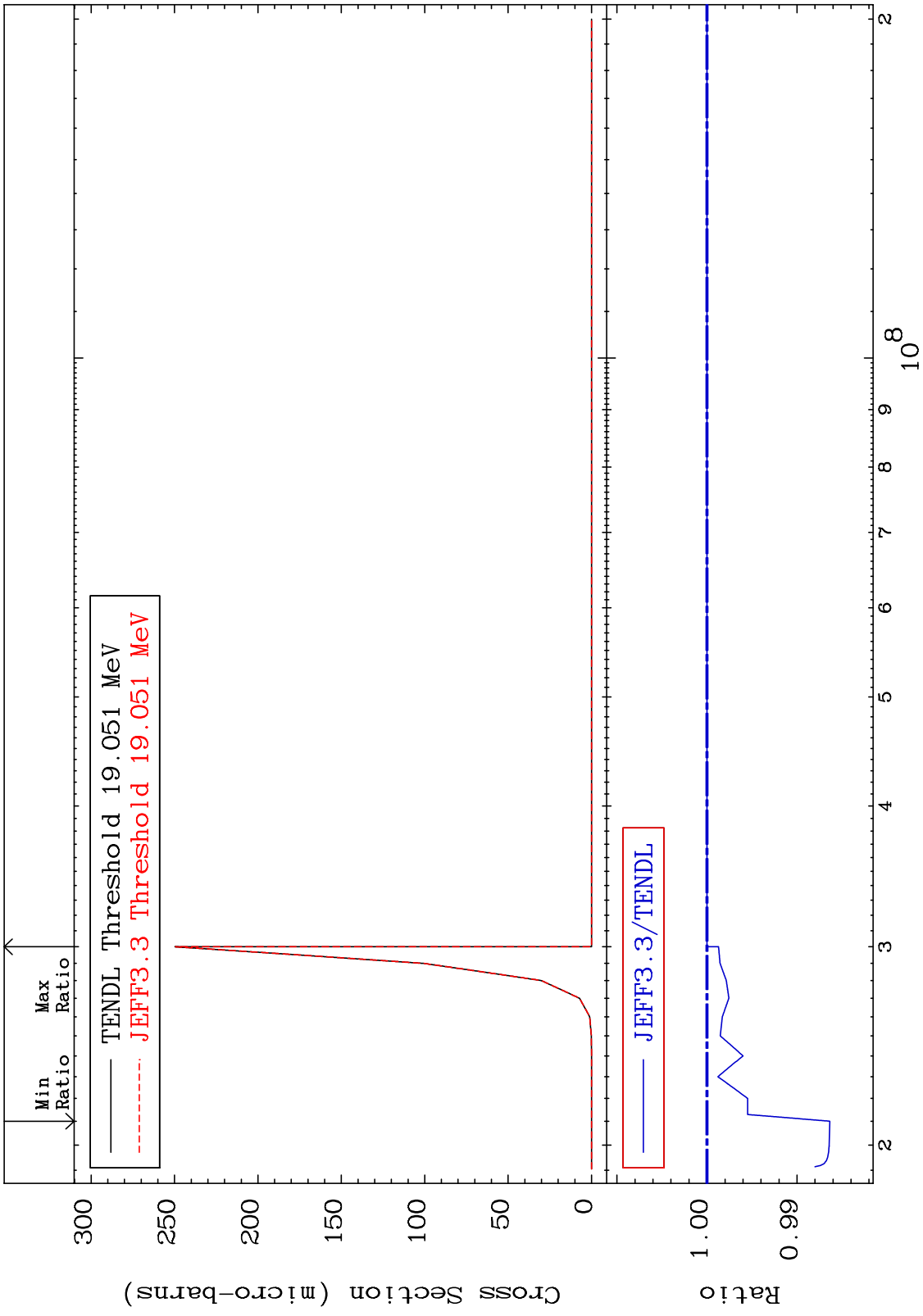


MAT 7043 Inelastic Cross Section 70-Yb-174 -0.066 To 0.056 %



3 Incident Energy (eV) 70-Yb-174

MAT 7043 (n,2n) d 70-Yb-174
 Cross Section -1.365 To 0.000 %



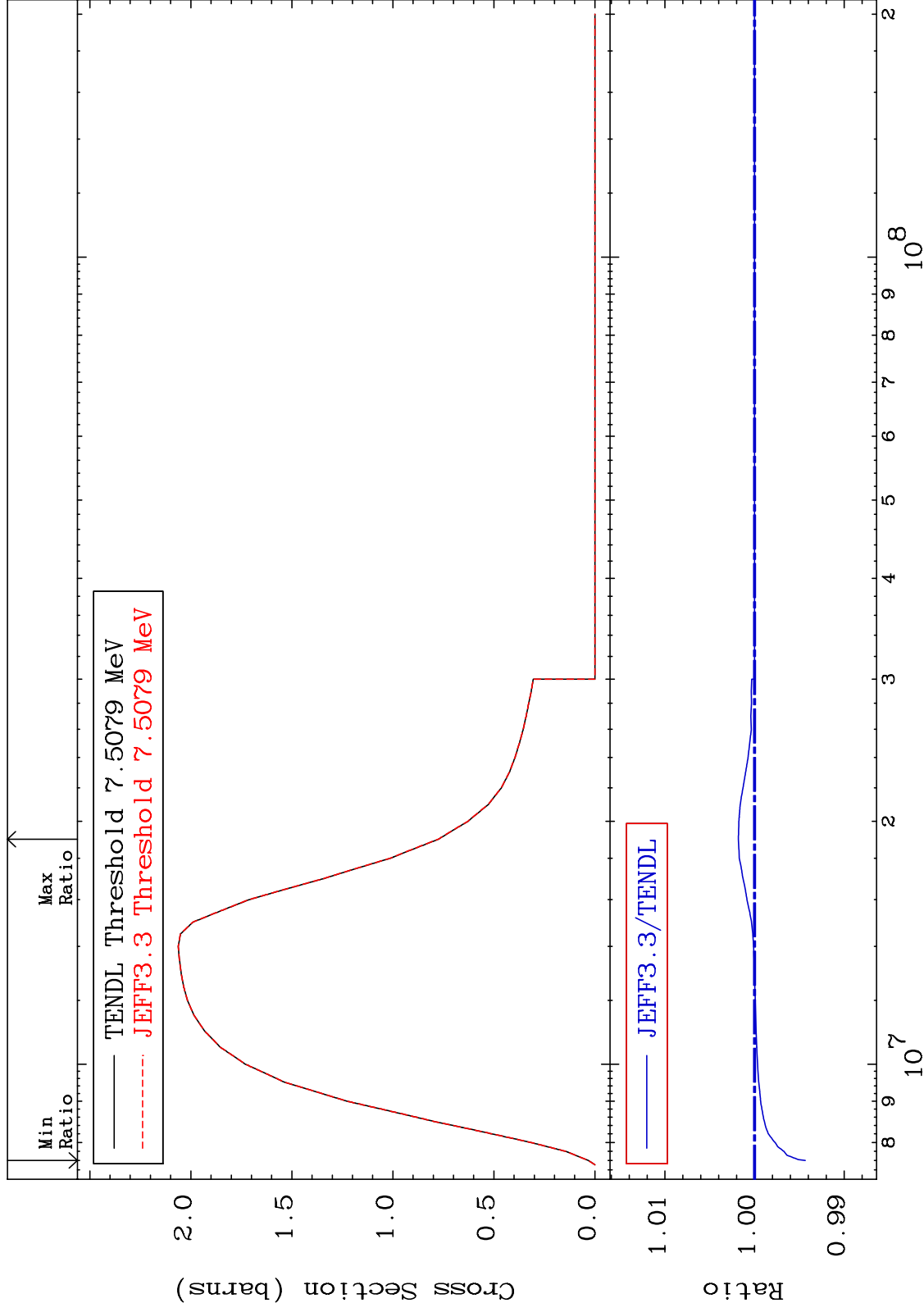
MAT 7043

(n,2n)

70-Yb-174

Cross Section

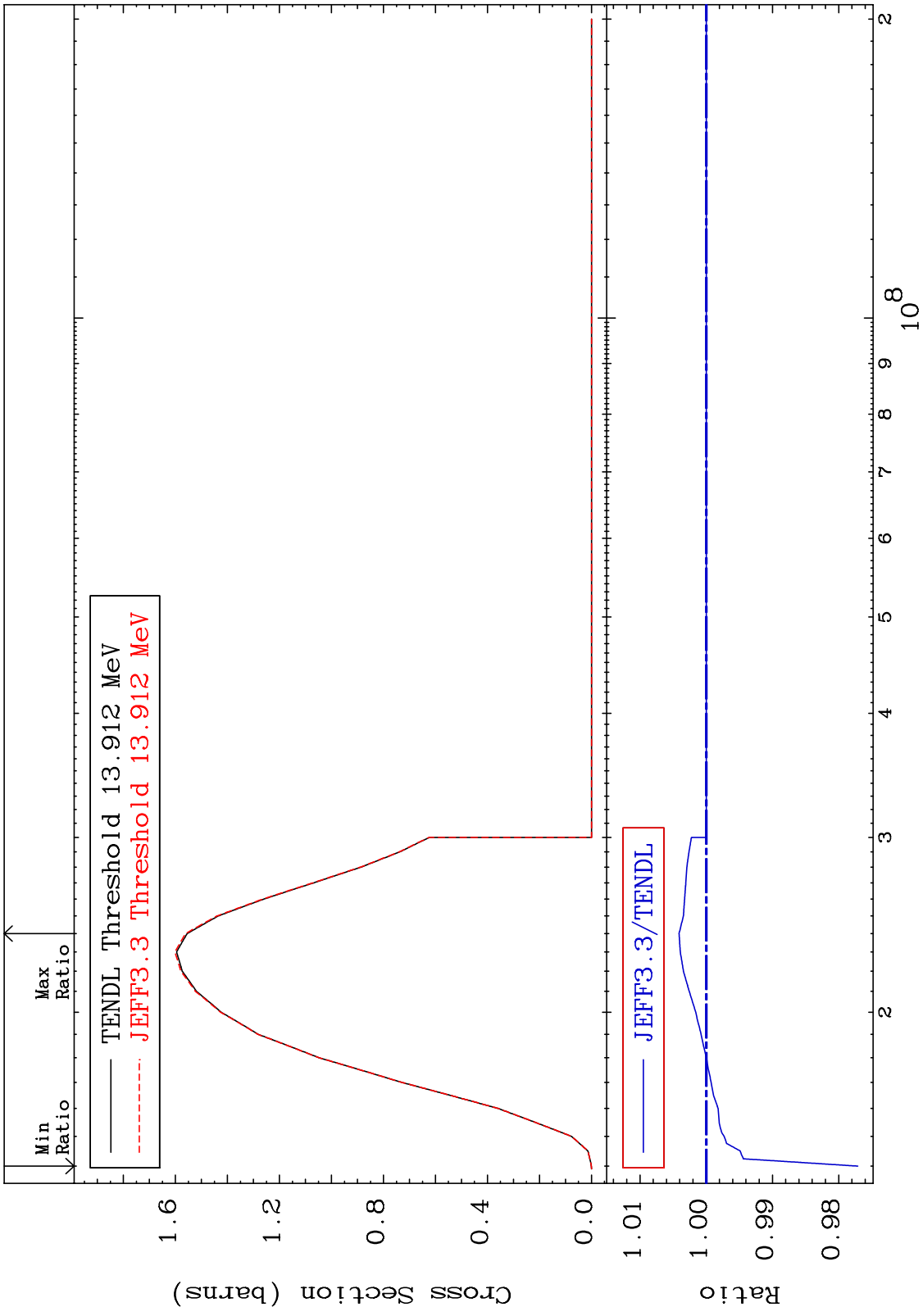
-0.567 To 0.181 %



5

Incident Energy (eV)

70-Yb-174

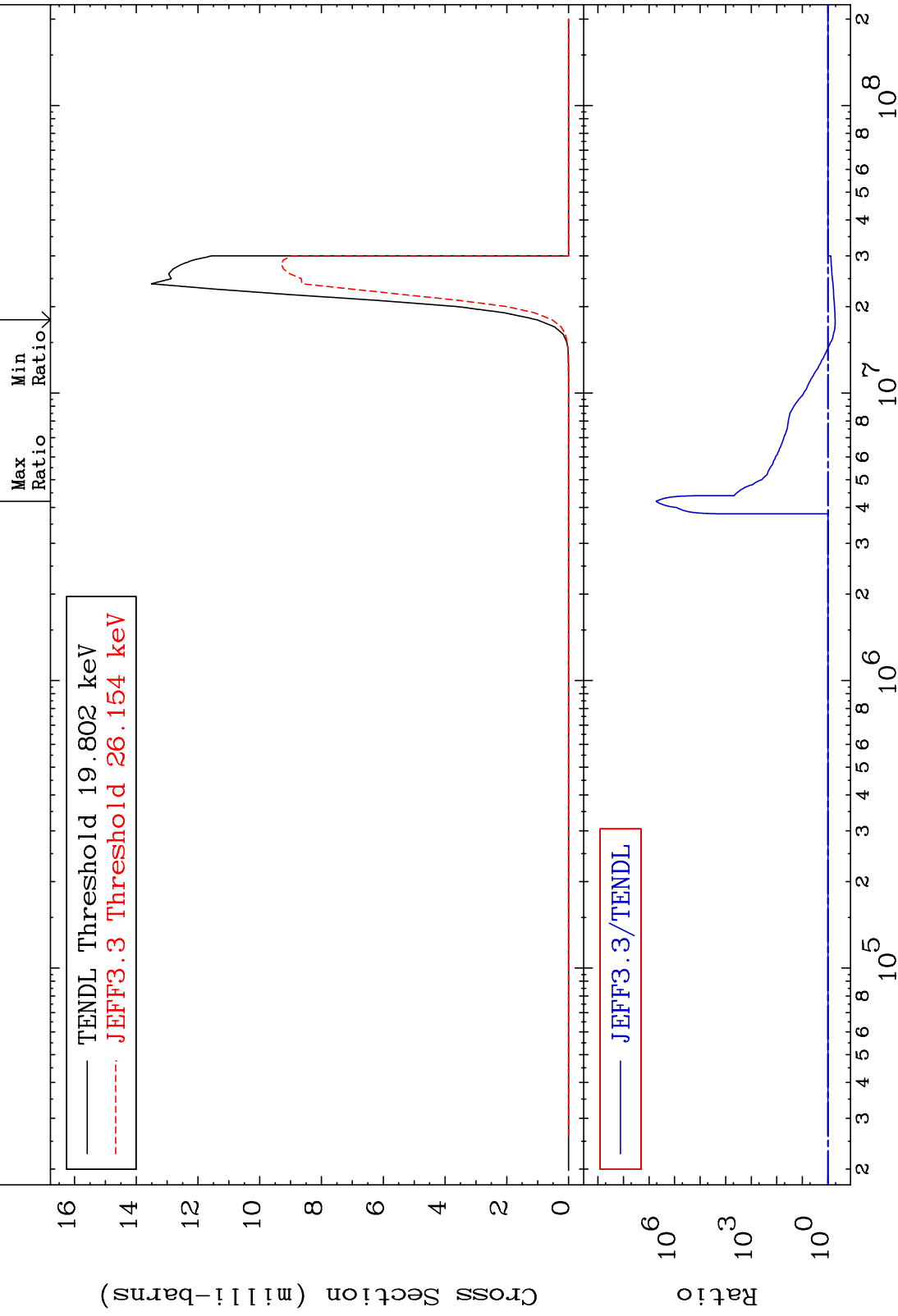


MAT 7043

$(n, n') \alpha$

70-Yb-174
-48.17 To 9999. %

Cross Section

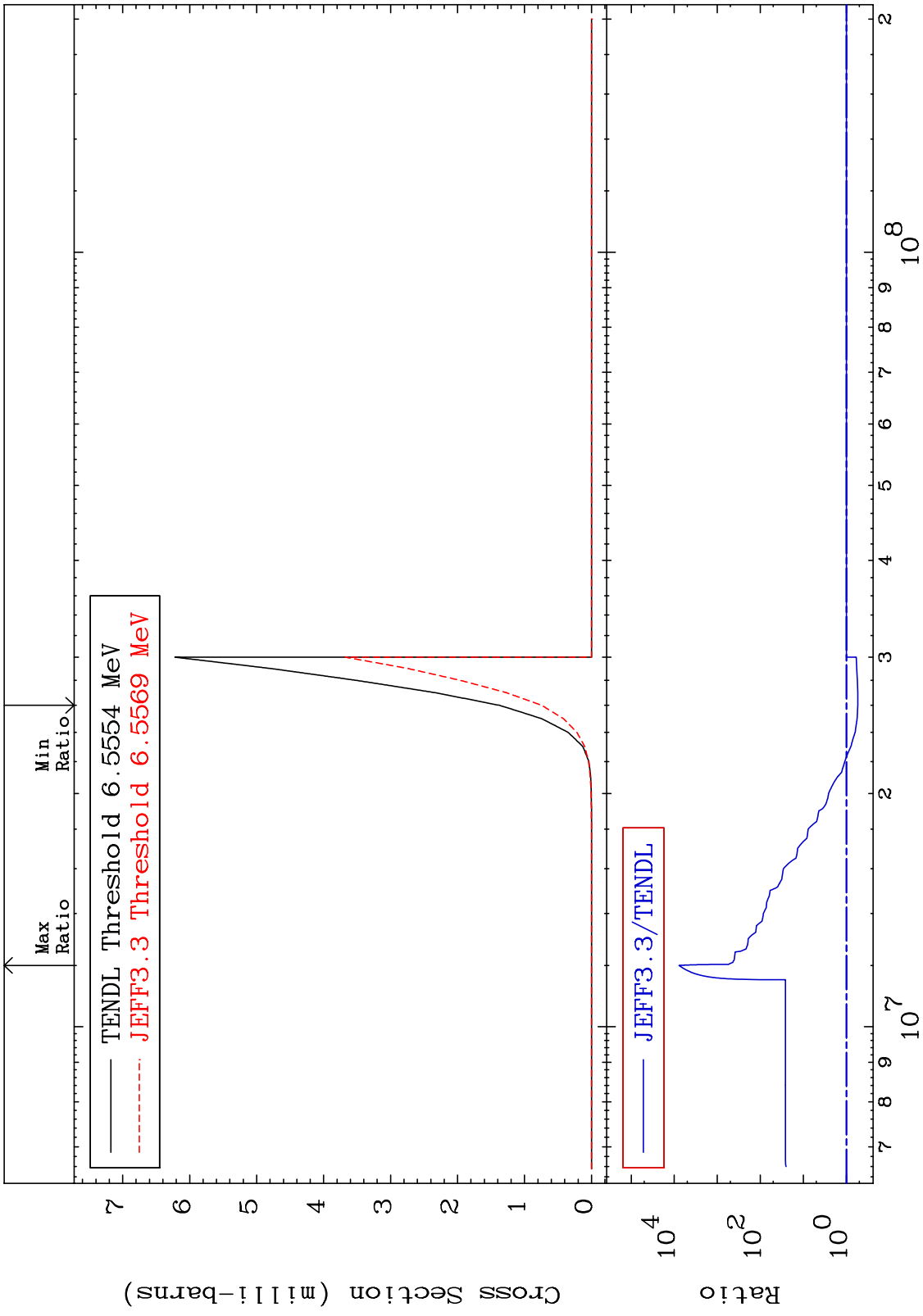


7

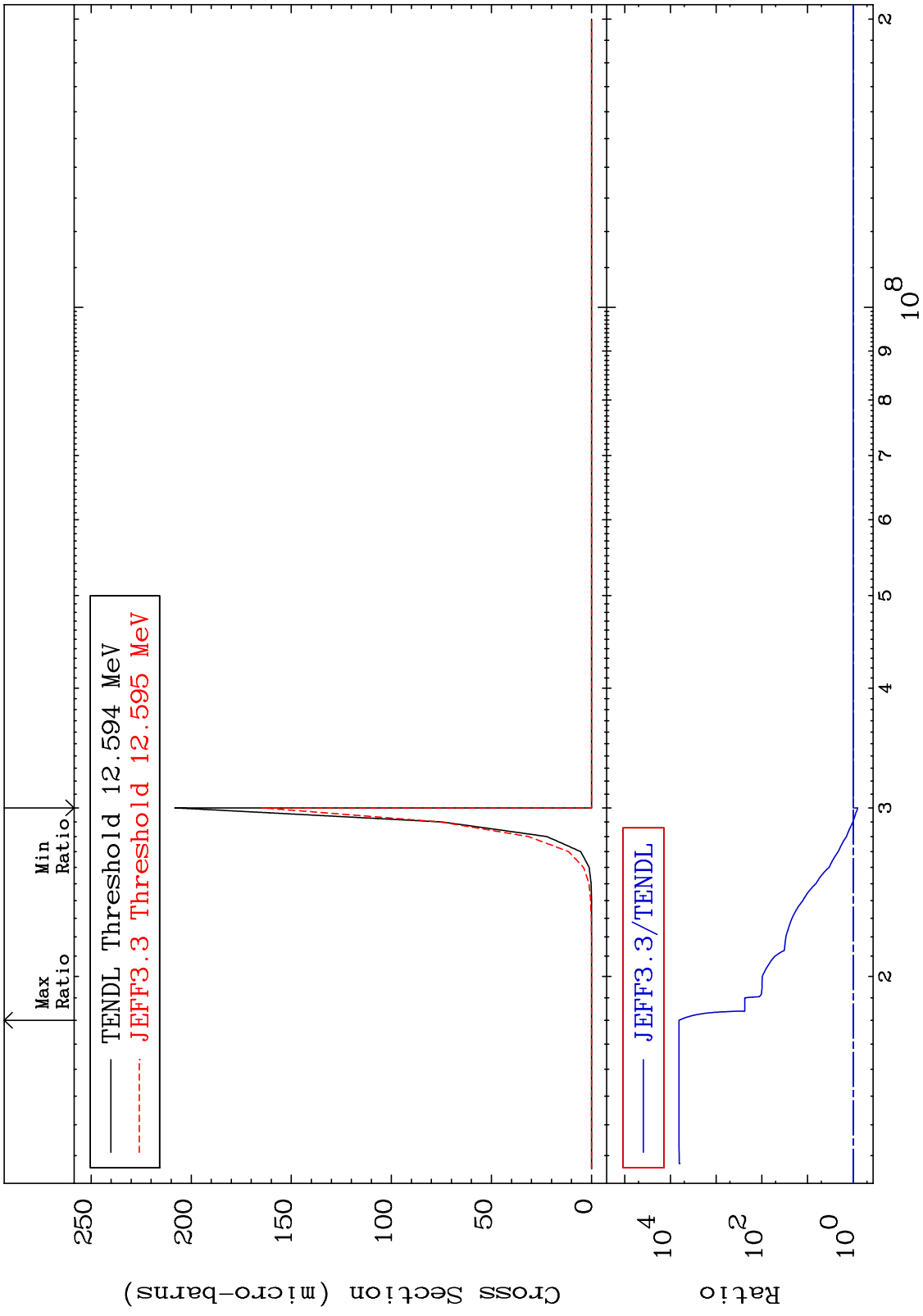
Incident Energy (eV)

70-Yb-174

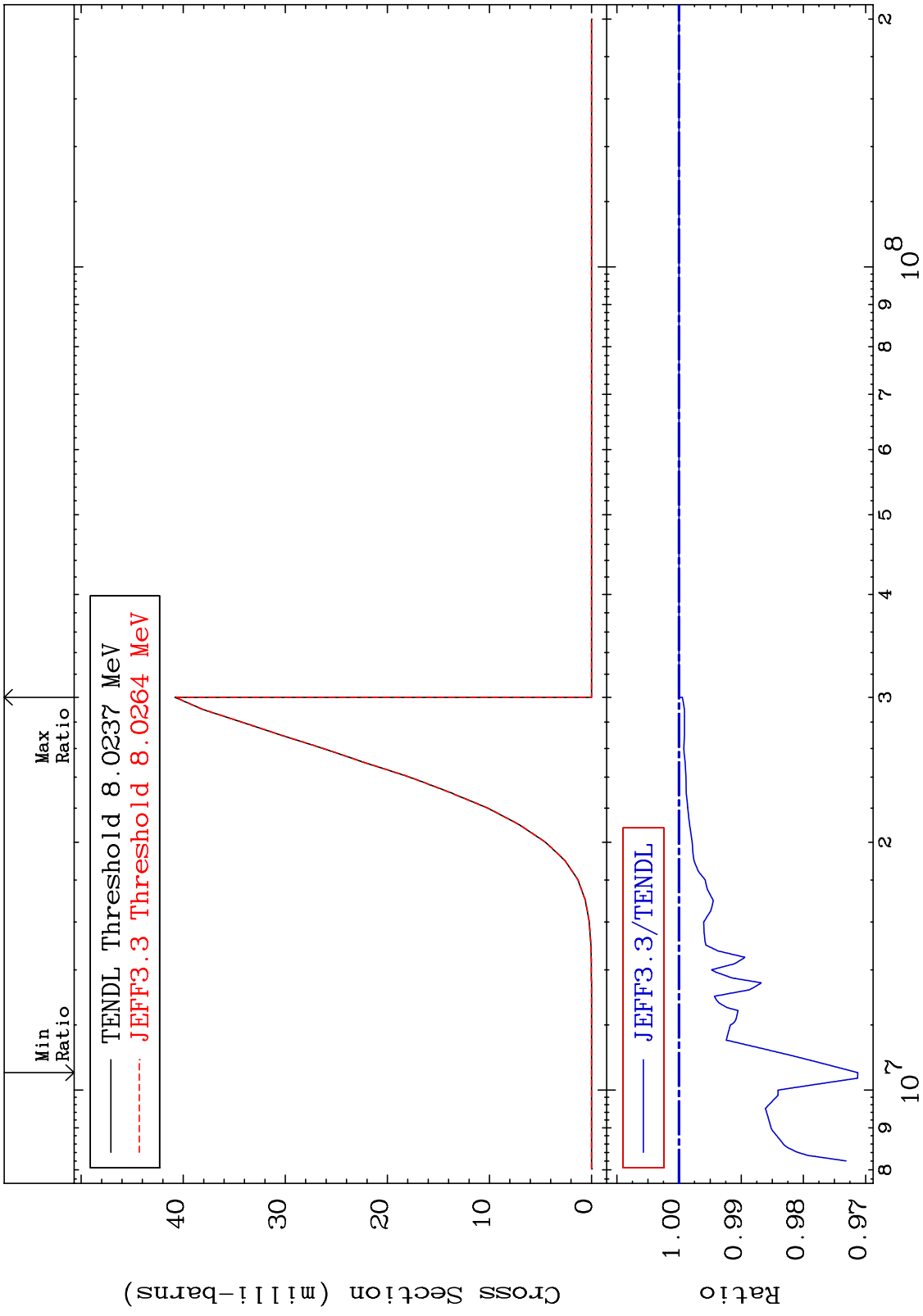
MAT 7043 $(n, 2n) \alpha$ 70-Yb-174
 Cross Section -45.86 To 9999. %



MAT 7043 $(n, 3n) \alpha$ $^{70}\text{Yb-174}$
 Cross Section $-20.89 \text{ To } 9999. \%$

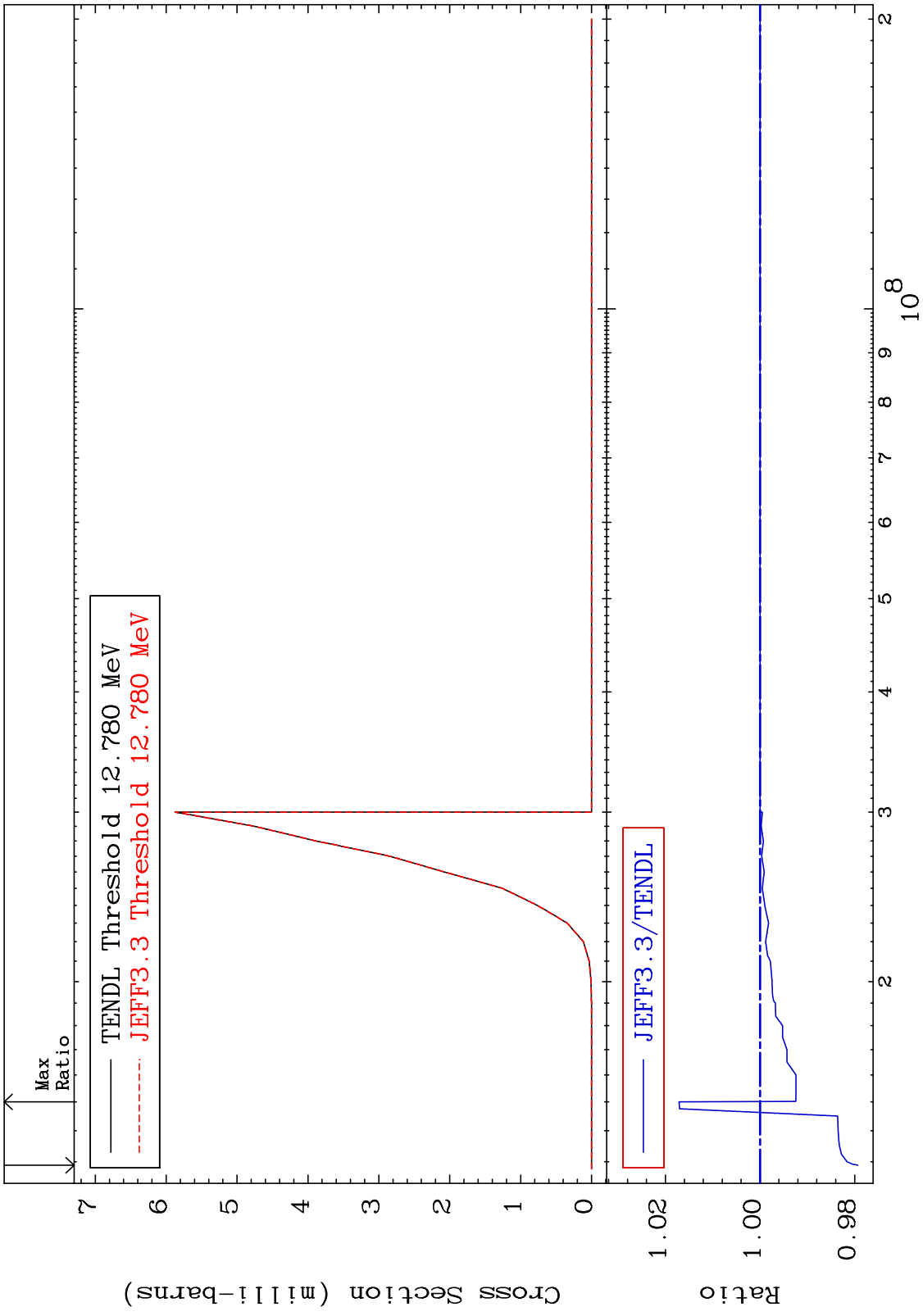


MAT 7043 (n, n') p $^{70}\text{Yb-174}$
Cross Section -2.876 To 0.000 %

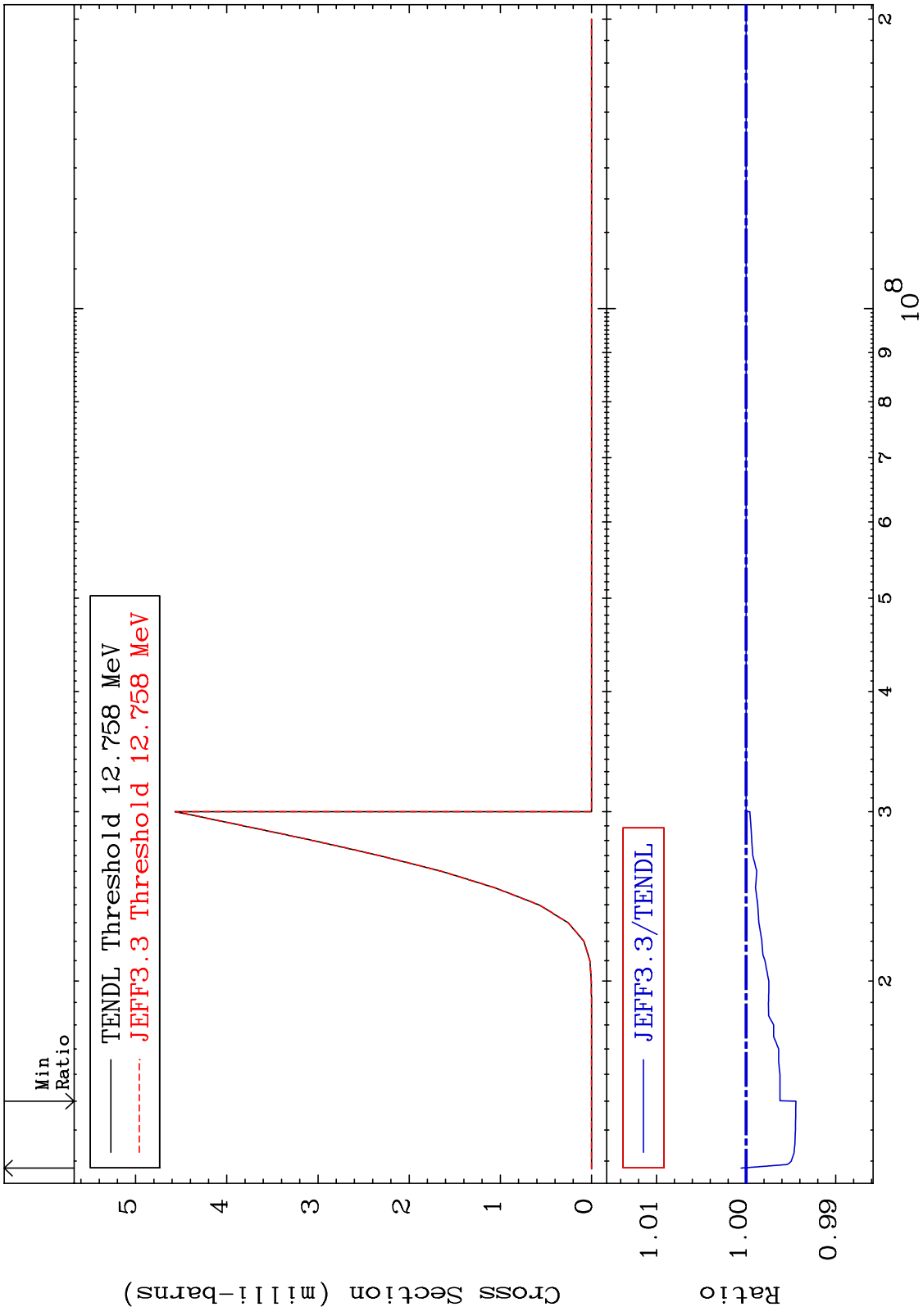


Incident Energy (eV) $^{70}\text{Yb-174}$

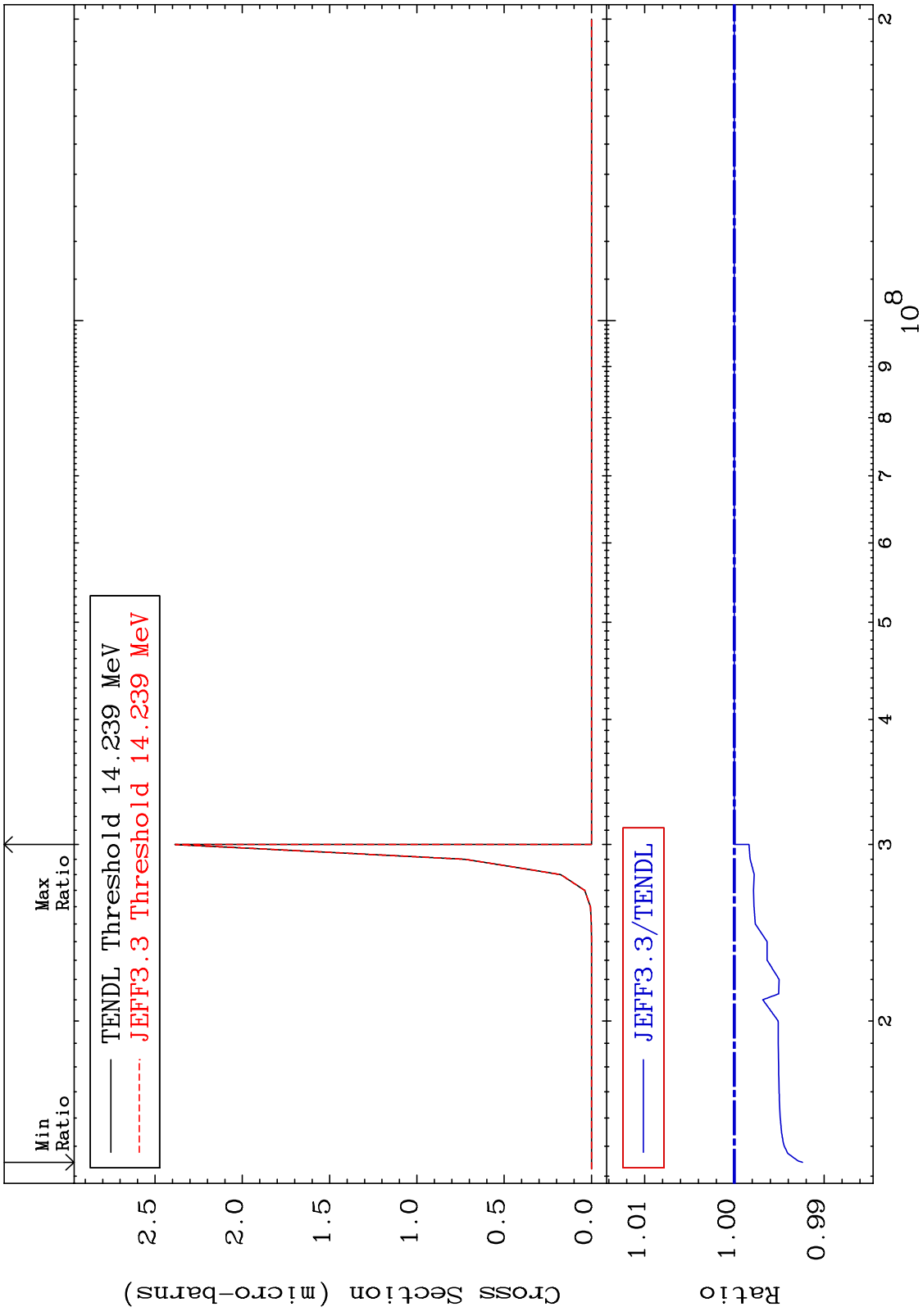
MAT 7043 (n, n') d 70-Yb-174
 Cross Section -2.067 To 1.712 %

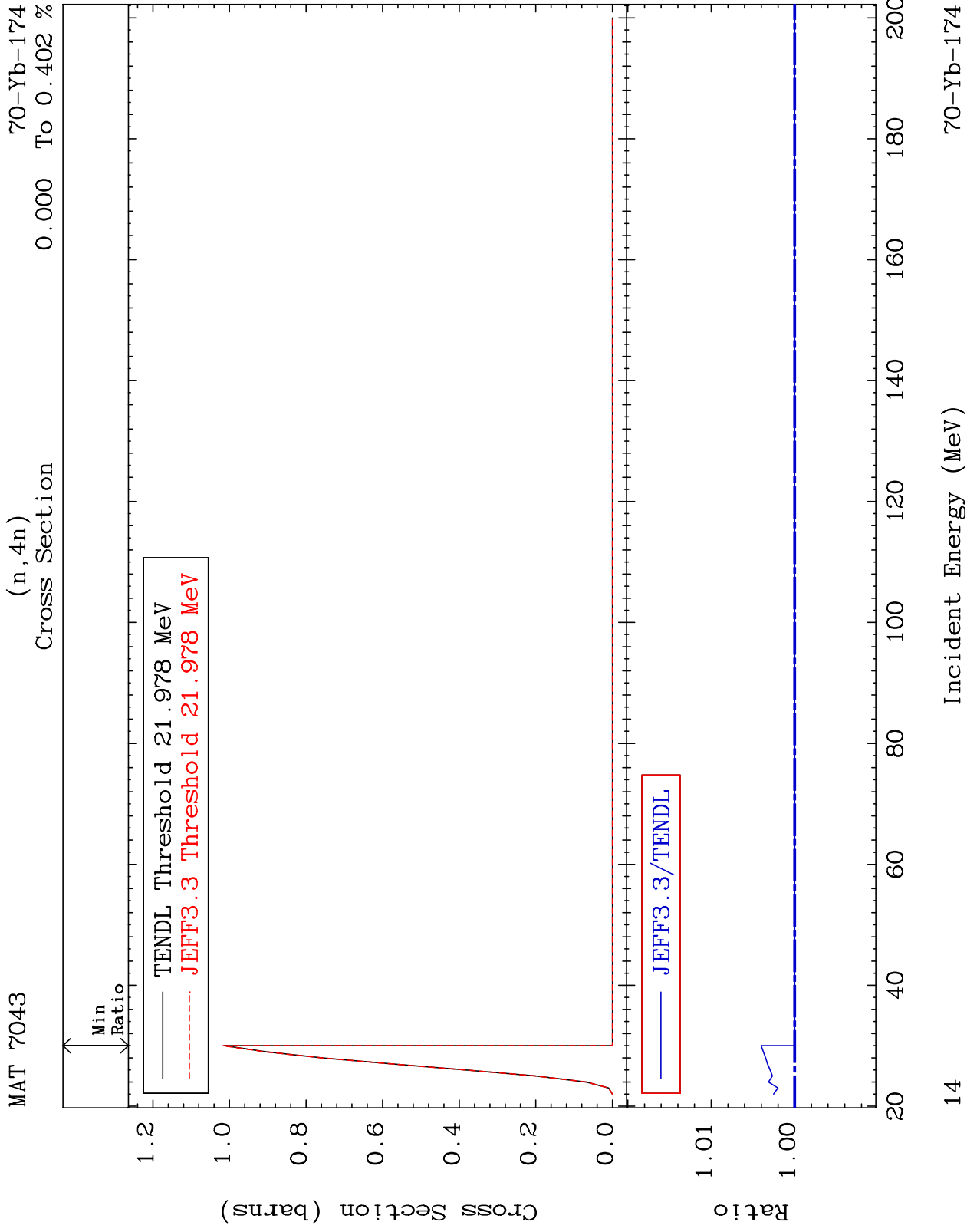


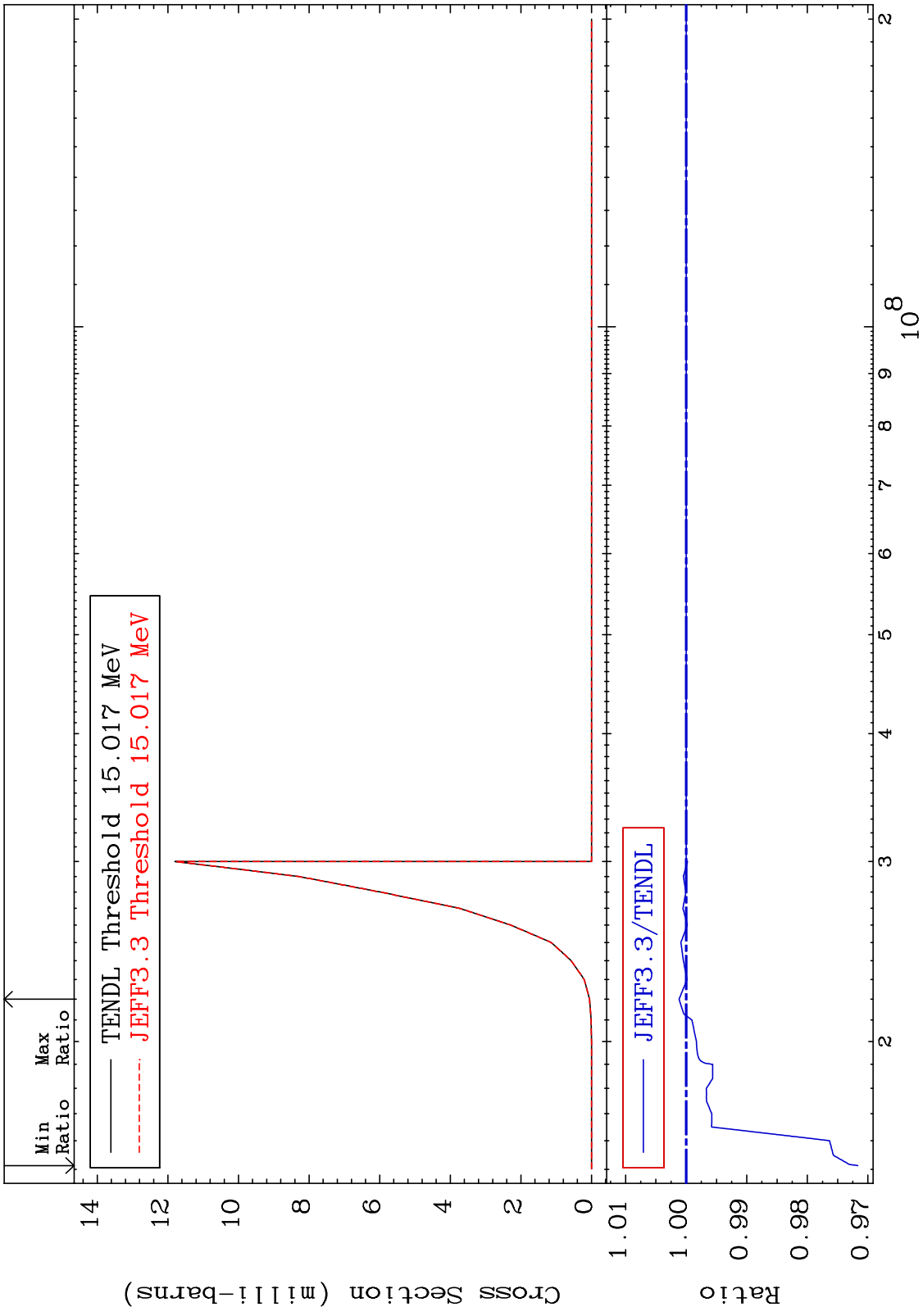
MAT 7043 (n,n') t 70-Yb-174
 Cross Section -0.555 To 0.057 %



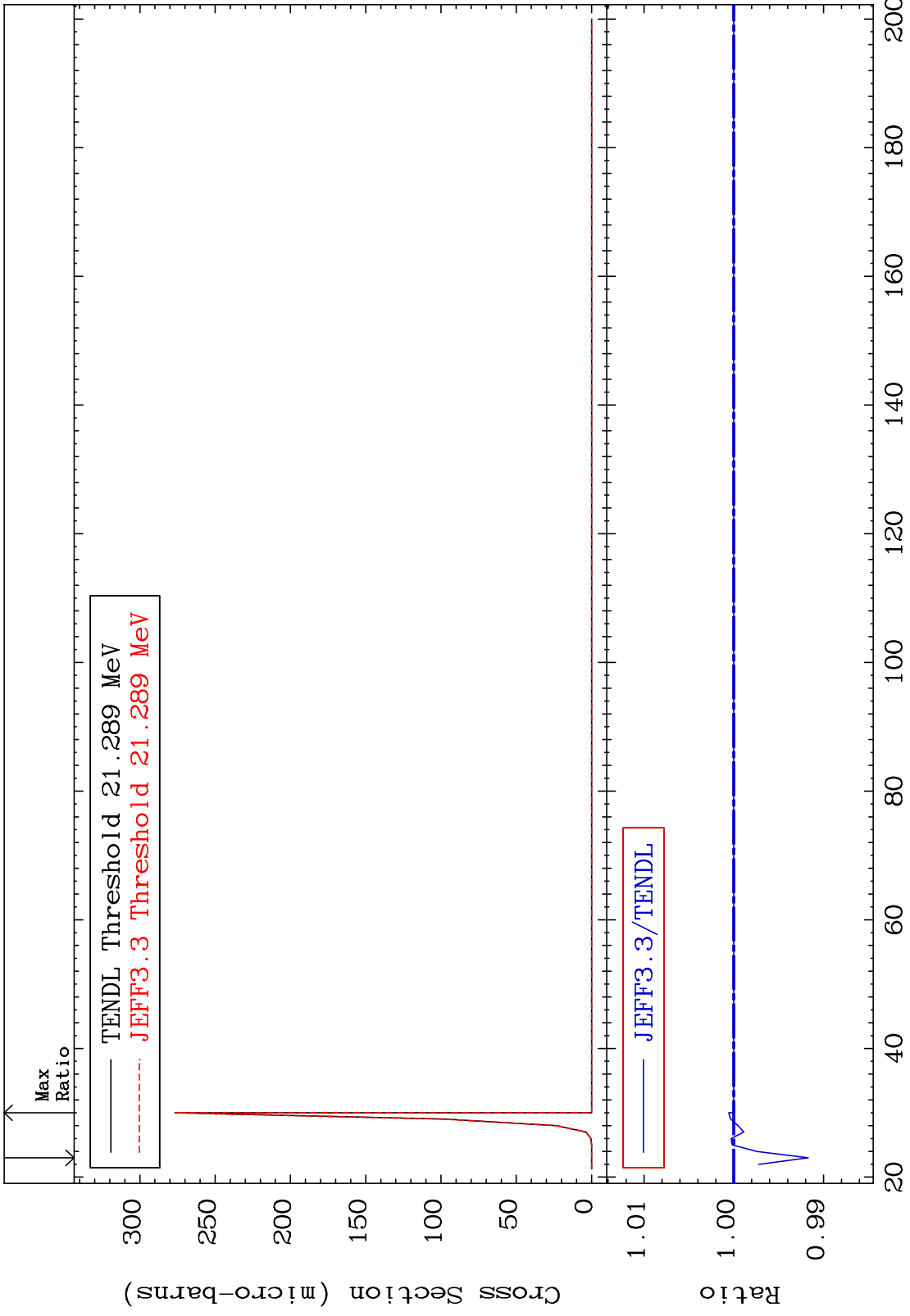
MAT 7043 (n, n') He-3 70-Yb-174
 Cross Section -0.759 To 0.000 %





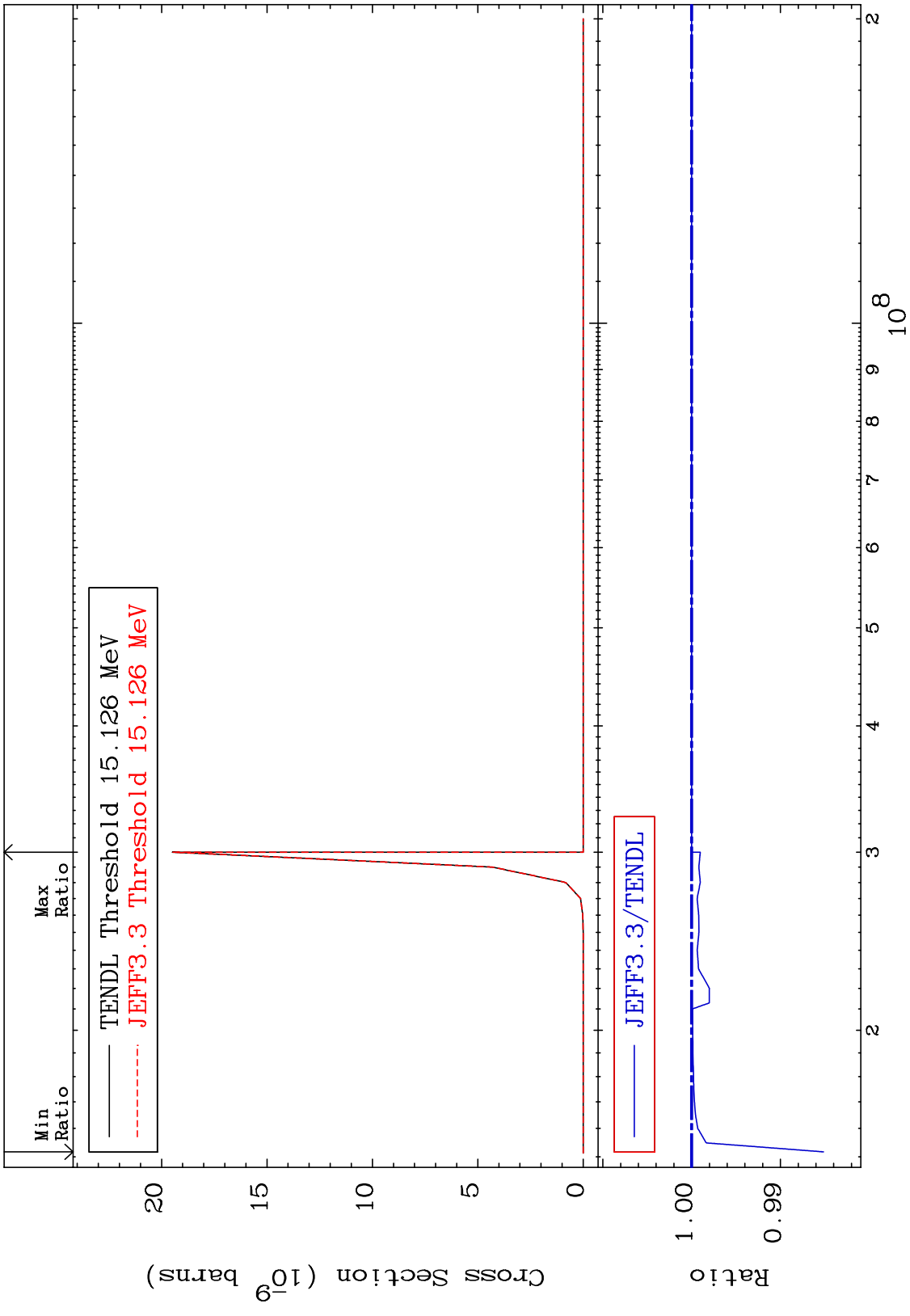


MAT 7043 (n,3n) p 70-Yb-174
Cross Section -0.830 To 0.056 %

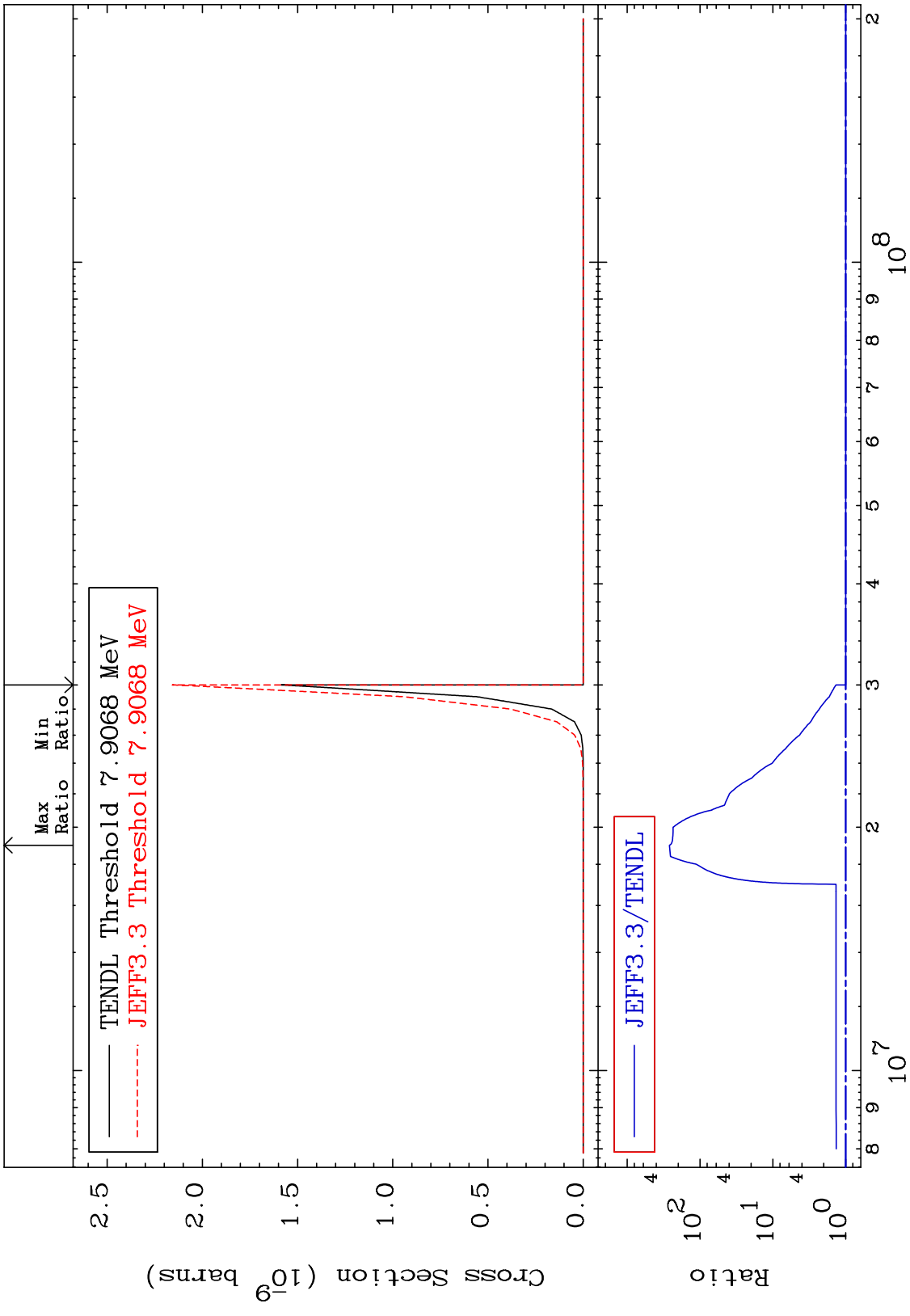


16 70-Yb-174

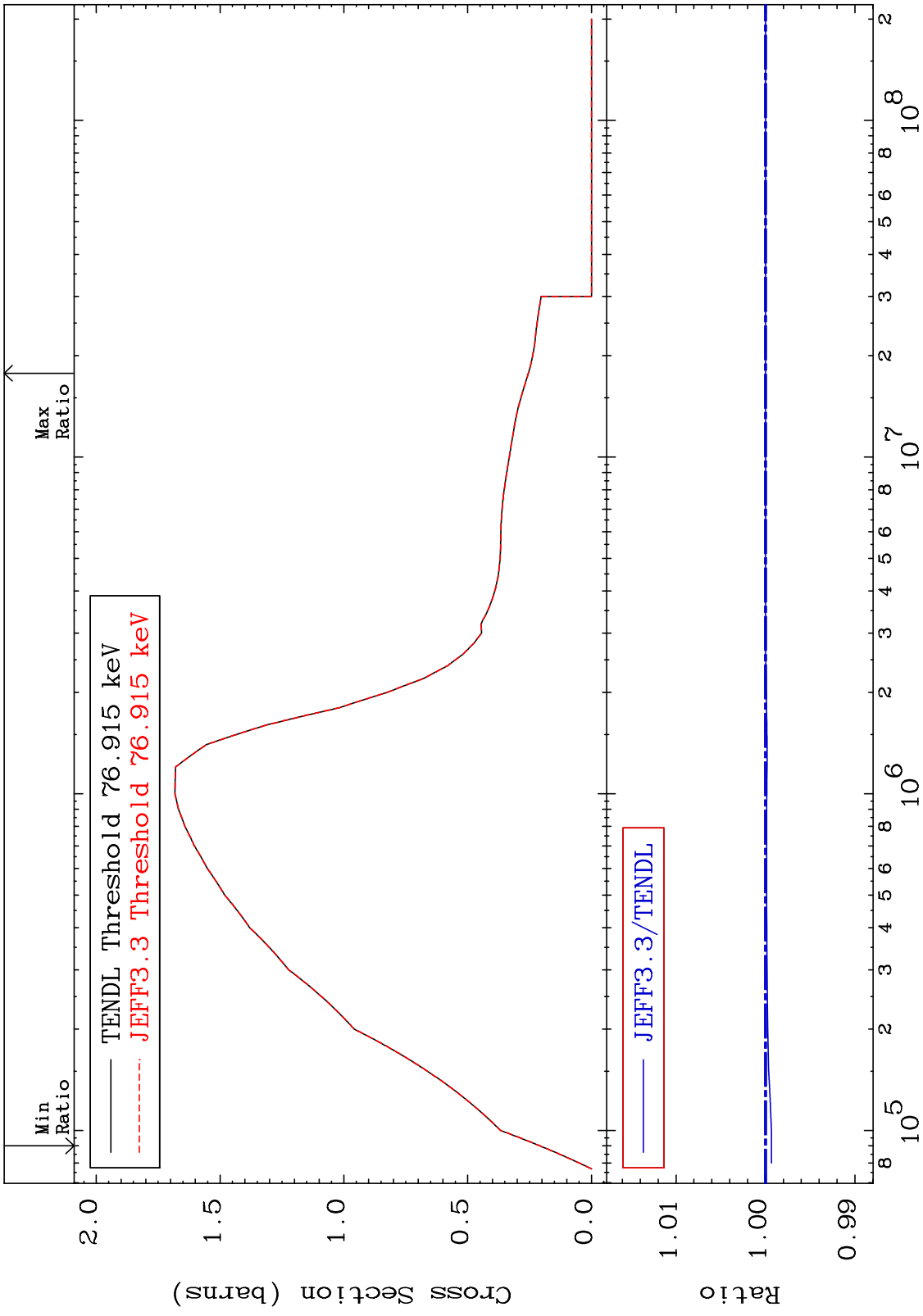
MAT 7043 (n,2n) p 70-Yb-174
 Cross Section -1.485 To 0.000 %



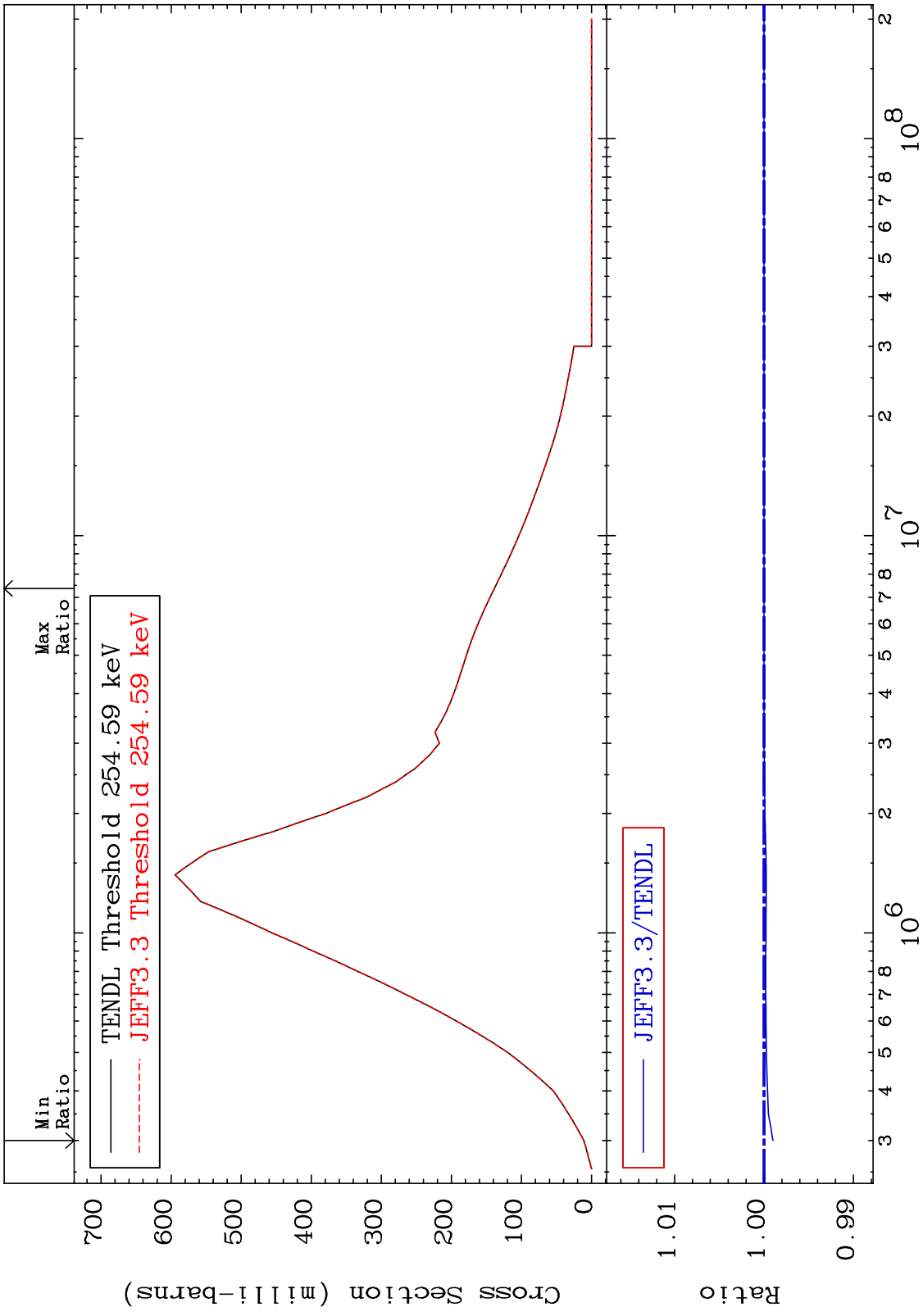
MAT 7043 70-Yb-174
To 9999. %
0.000
(n,n') p α
Cross Section



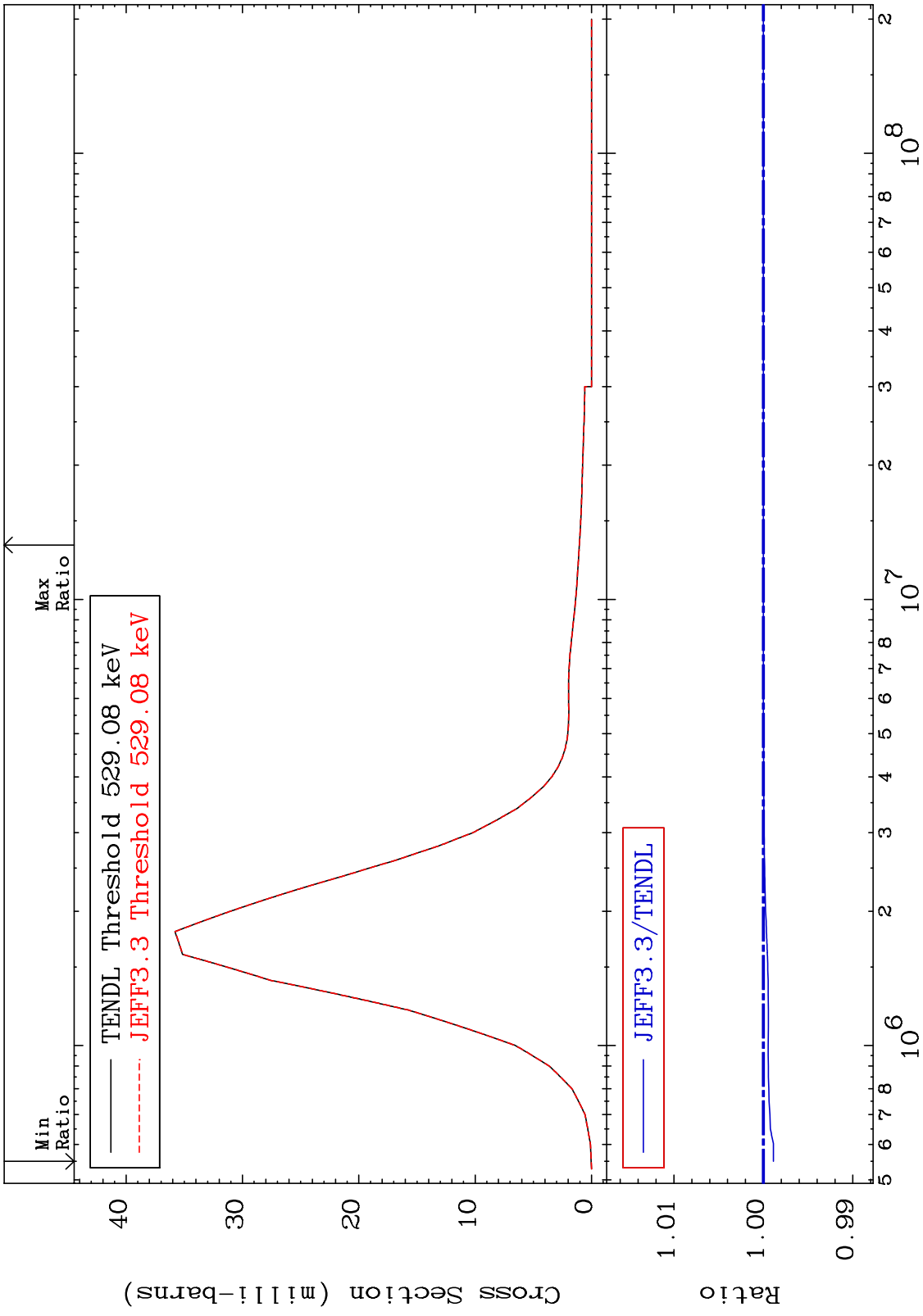
MAT 7043 MT= 51 (n,n') Level Cross Section 70-Yb-174 -0.066 To 0.000 %



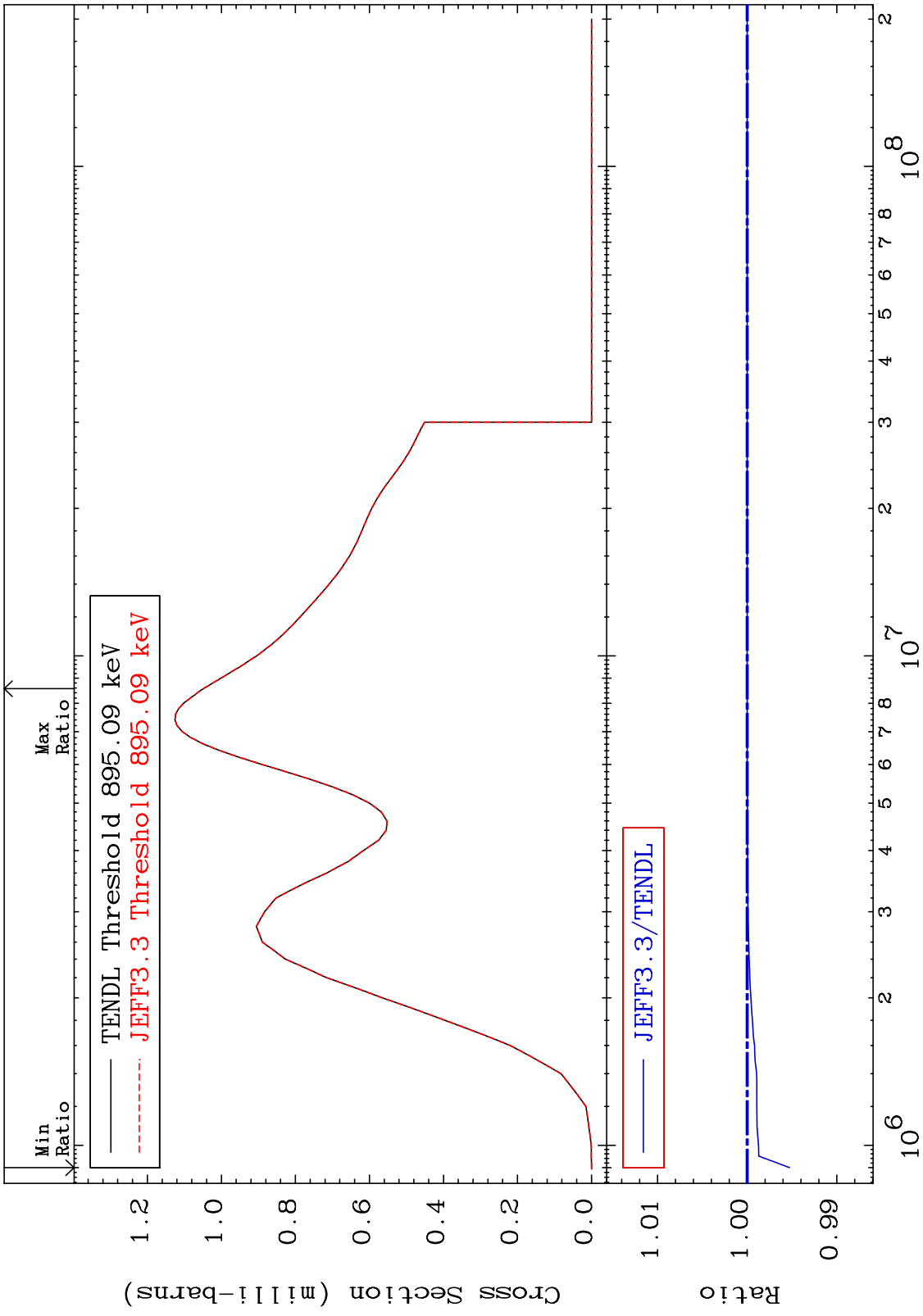
MAT 7043 MT= 52 (n,n') Level Cross Section -0.099 To 0.000 % 70-Yb-174



MAT 7043 MT= 53 (n,n') Level Cross Section -0.113 To 0.000 % 70-Yb-174

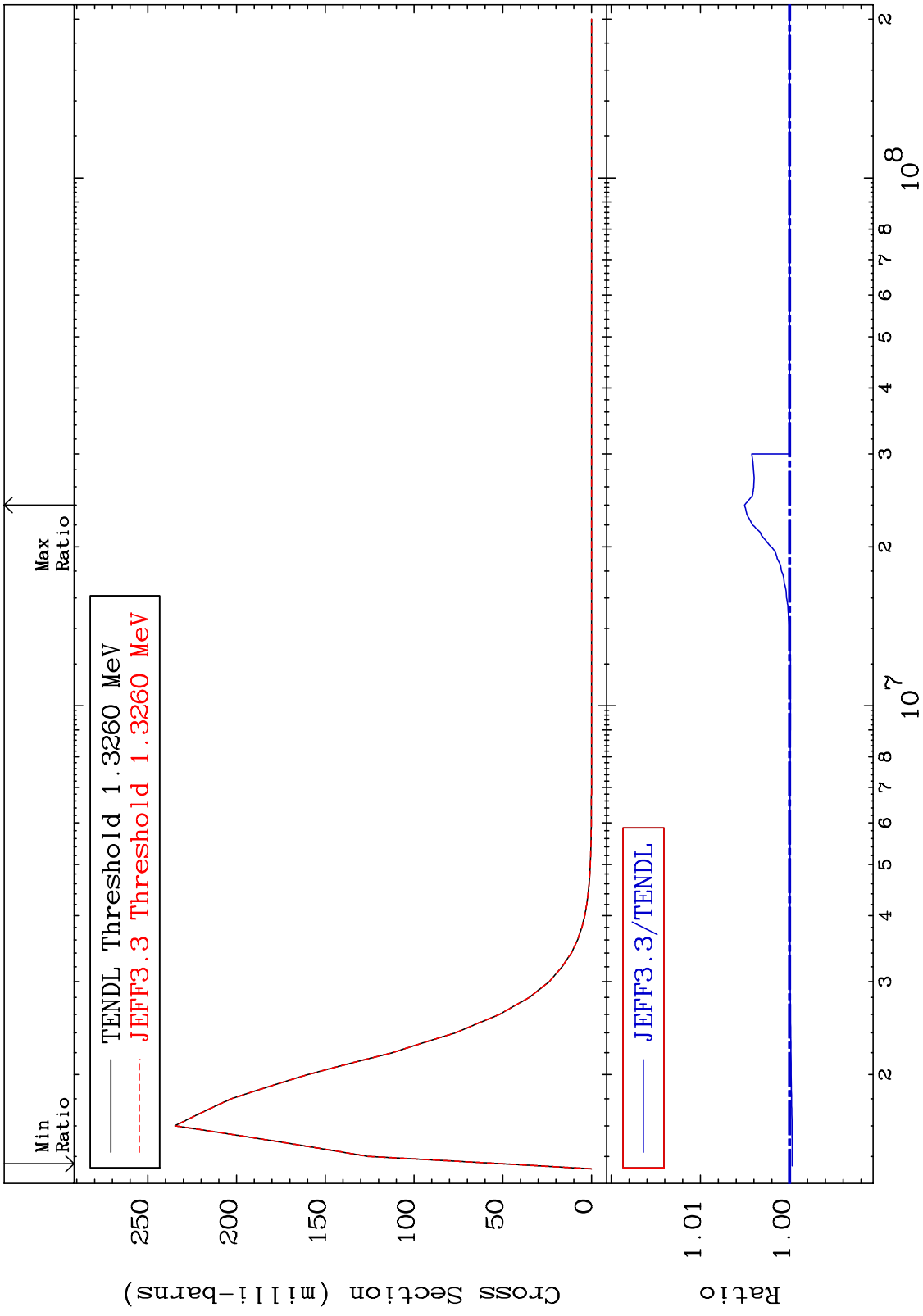


MAT 7043 MT= 54 (n,n') Level Cross Section 70-Yb-174
 -0.473 To 0.000 %

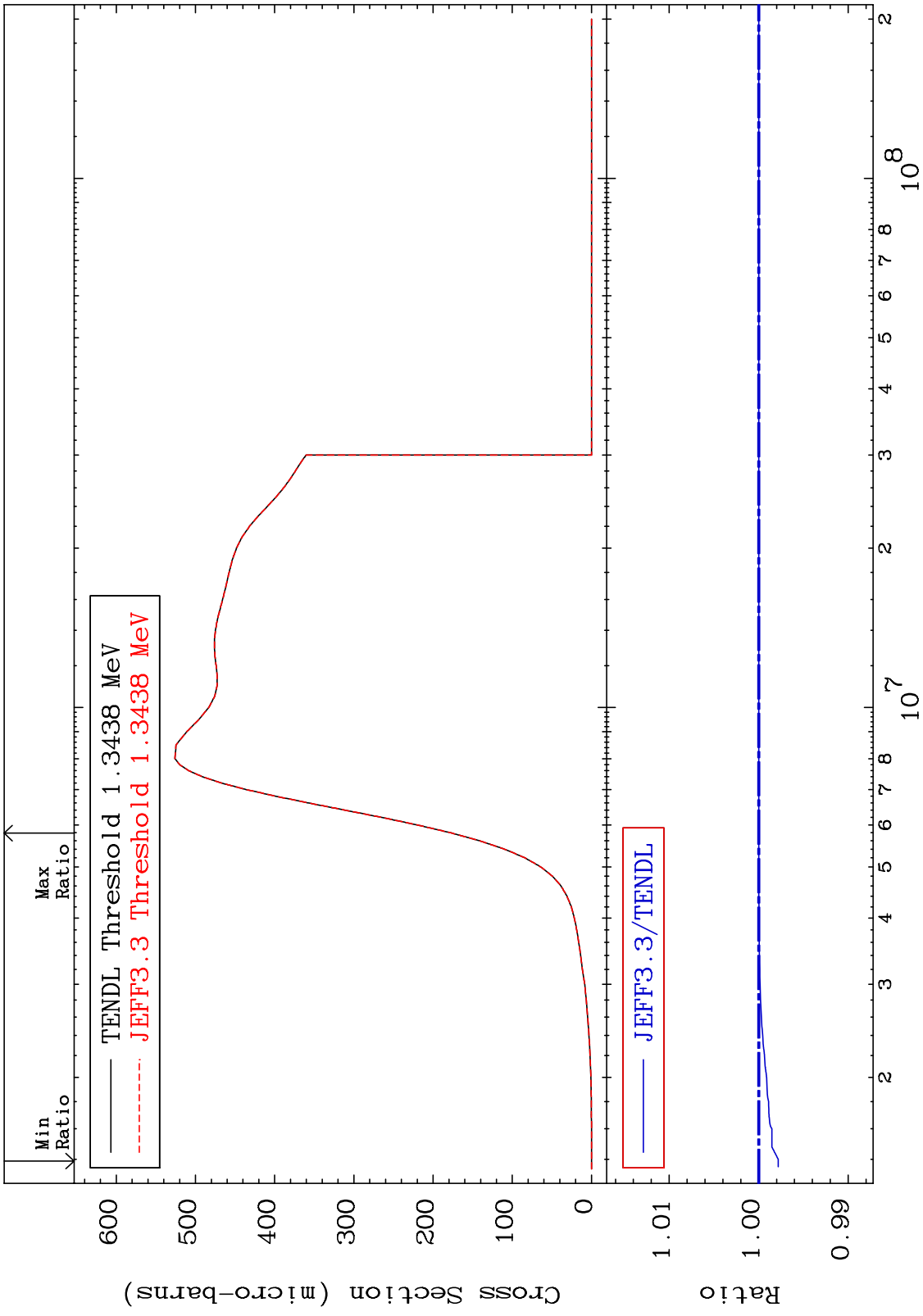


Incident Energy (eV) 70-Yb-174

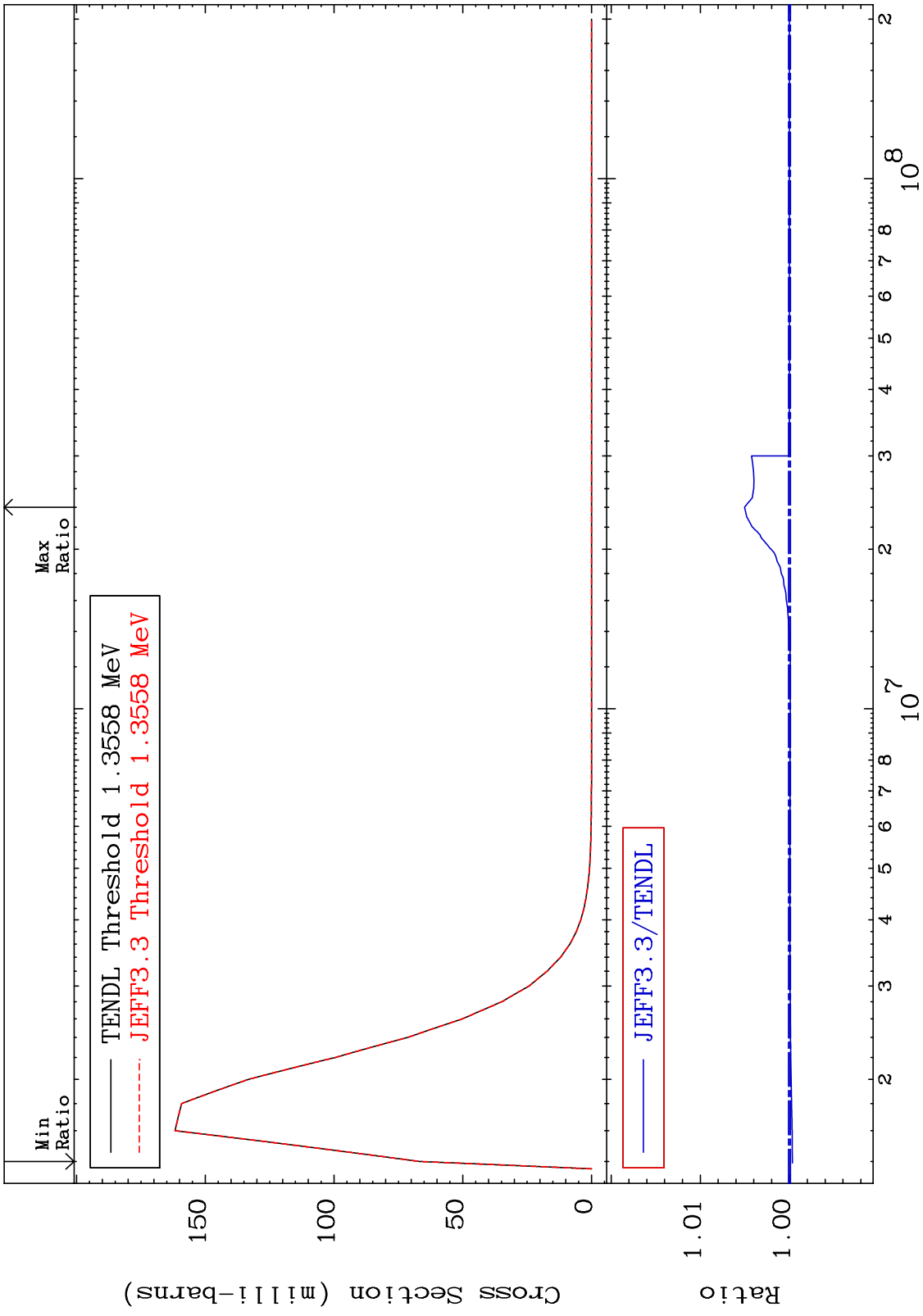
MAT 7043 MT= 55 (n,n') Level Cross Section 70-Yb-174
 -0.029 To 0.505 %



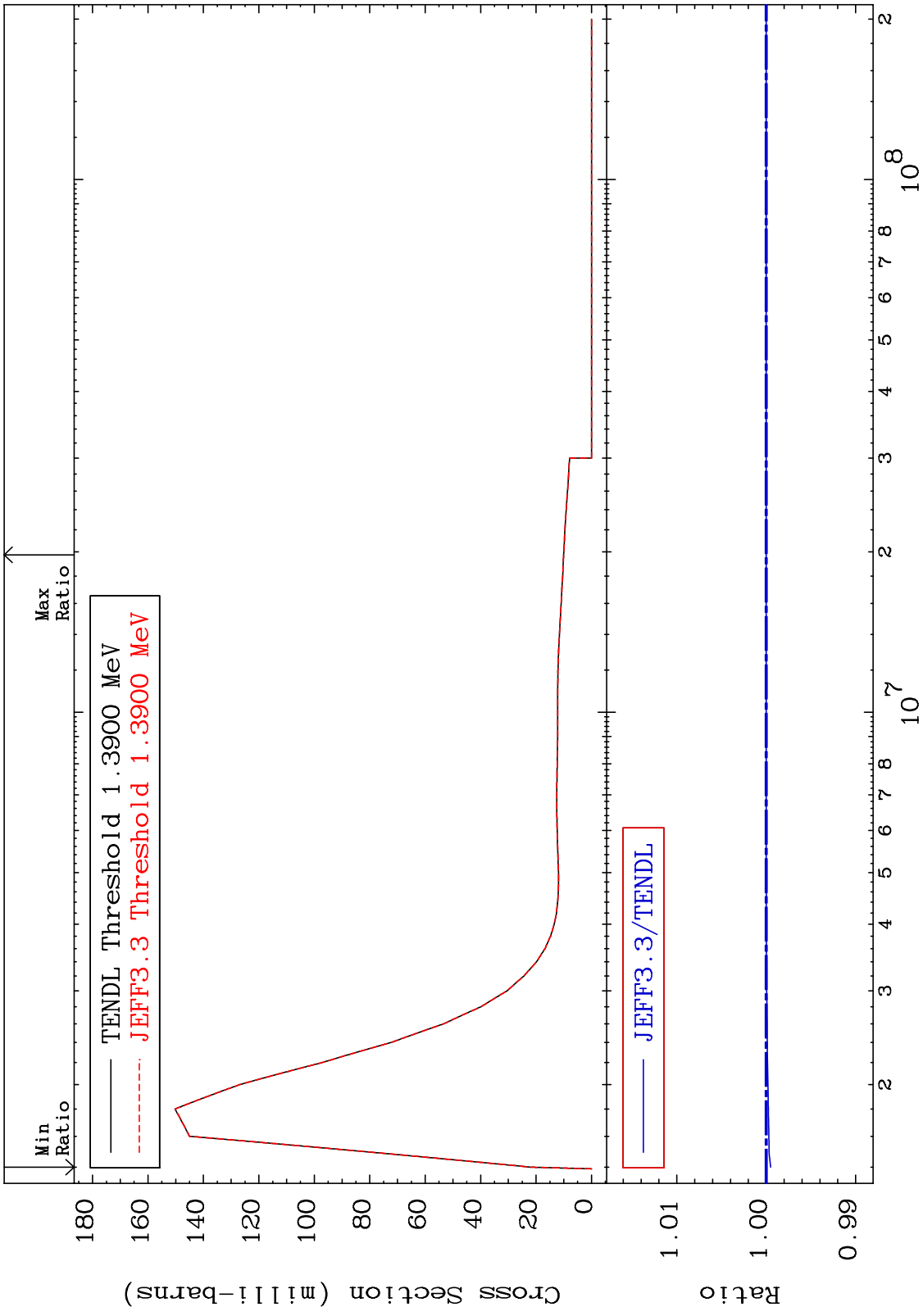
MAT 7043 MT= 56 (n,n') Level Cross Section 70-Yb-174 -0.218 To 0.000 %



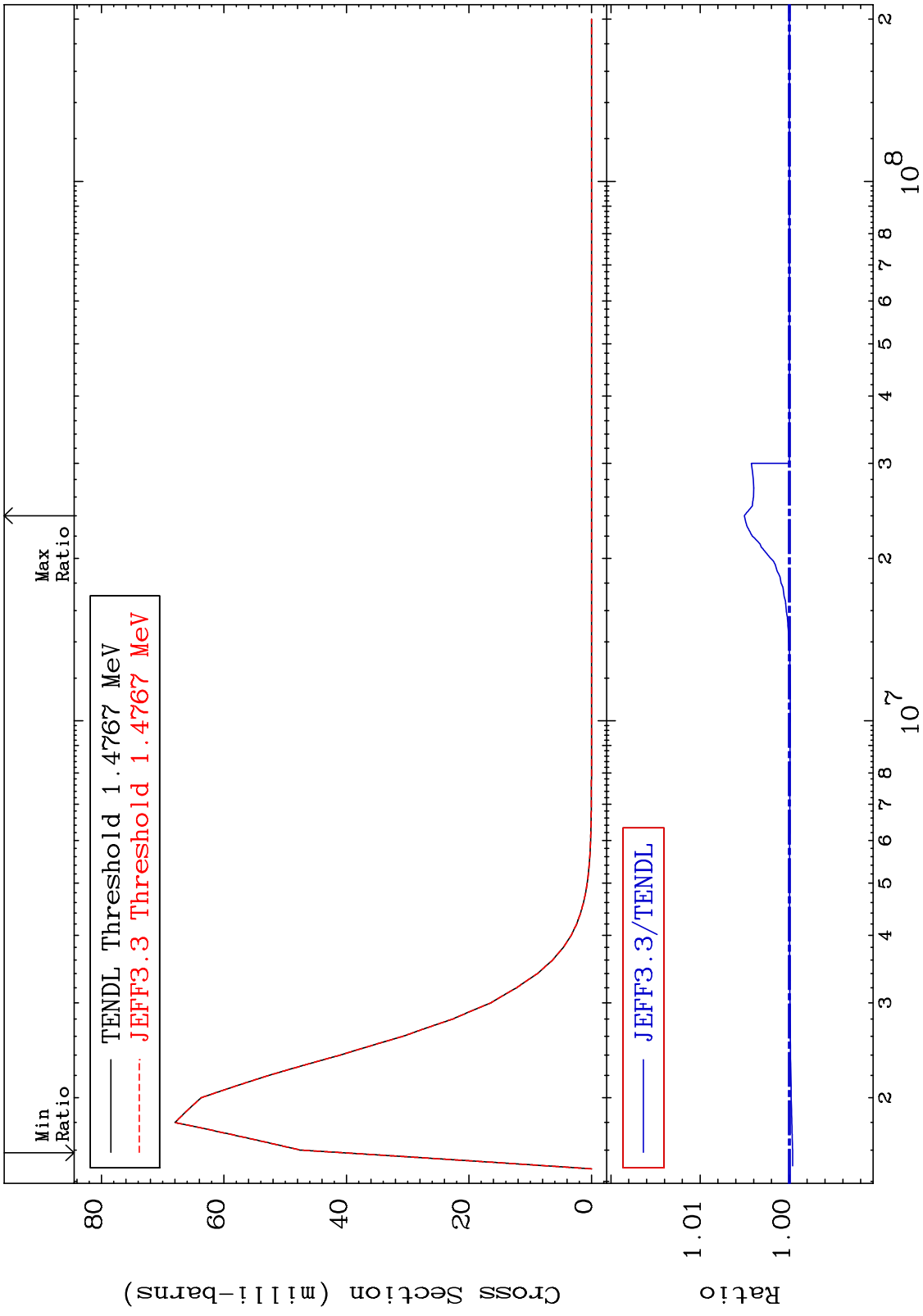
MAT 7043 MT= 57 (n,n') Level Cross Section 70-Yb-174
 -0.033 To 0.505 %



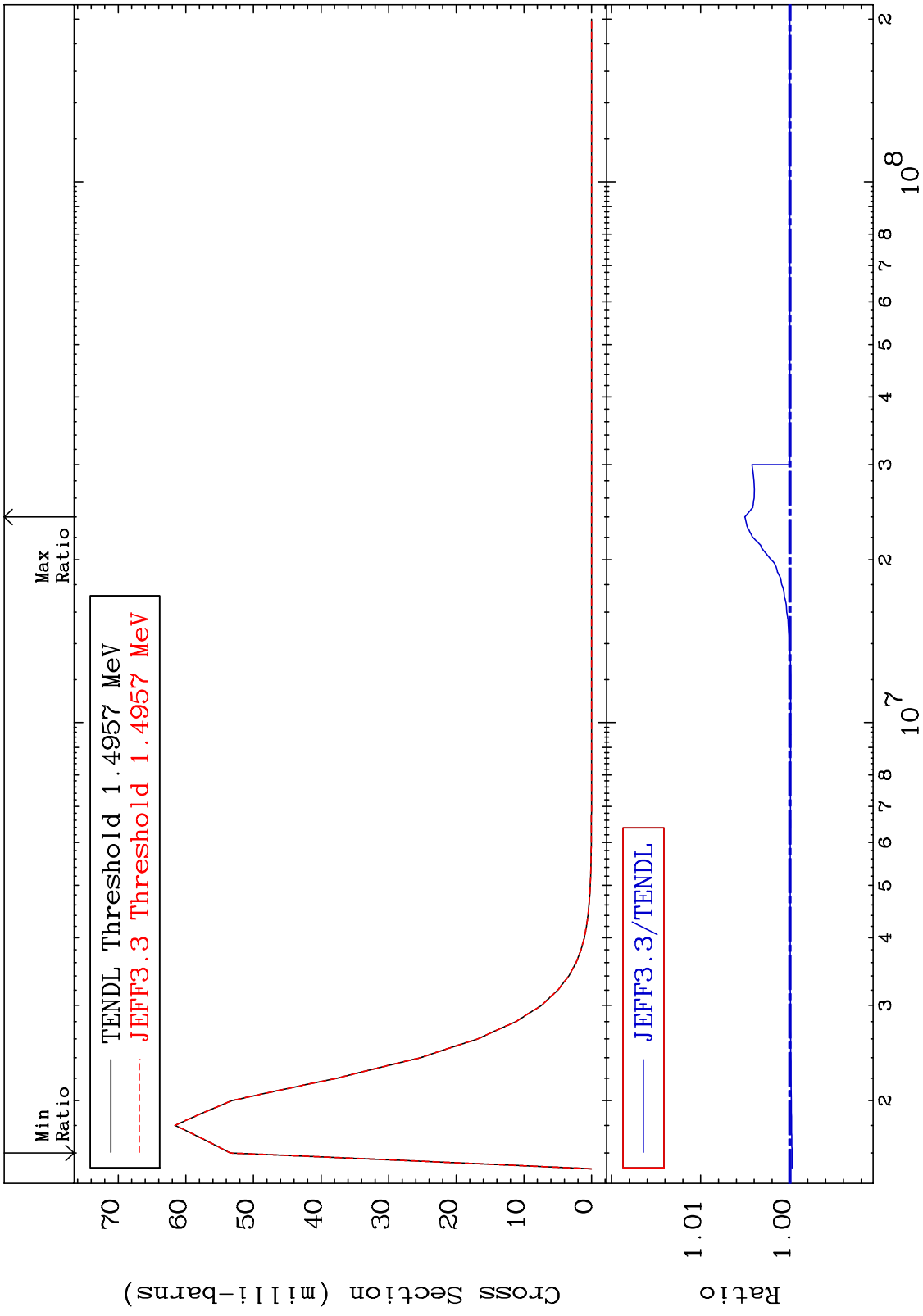
MAT 7043 MT= 58 (n,n') Level Cross Section 70-Yb-174
 -0.049 To 0.000 %



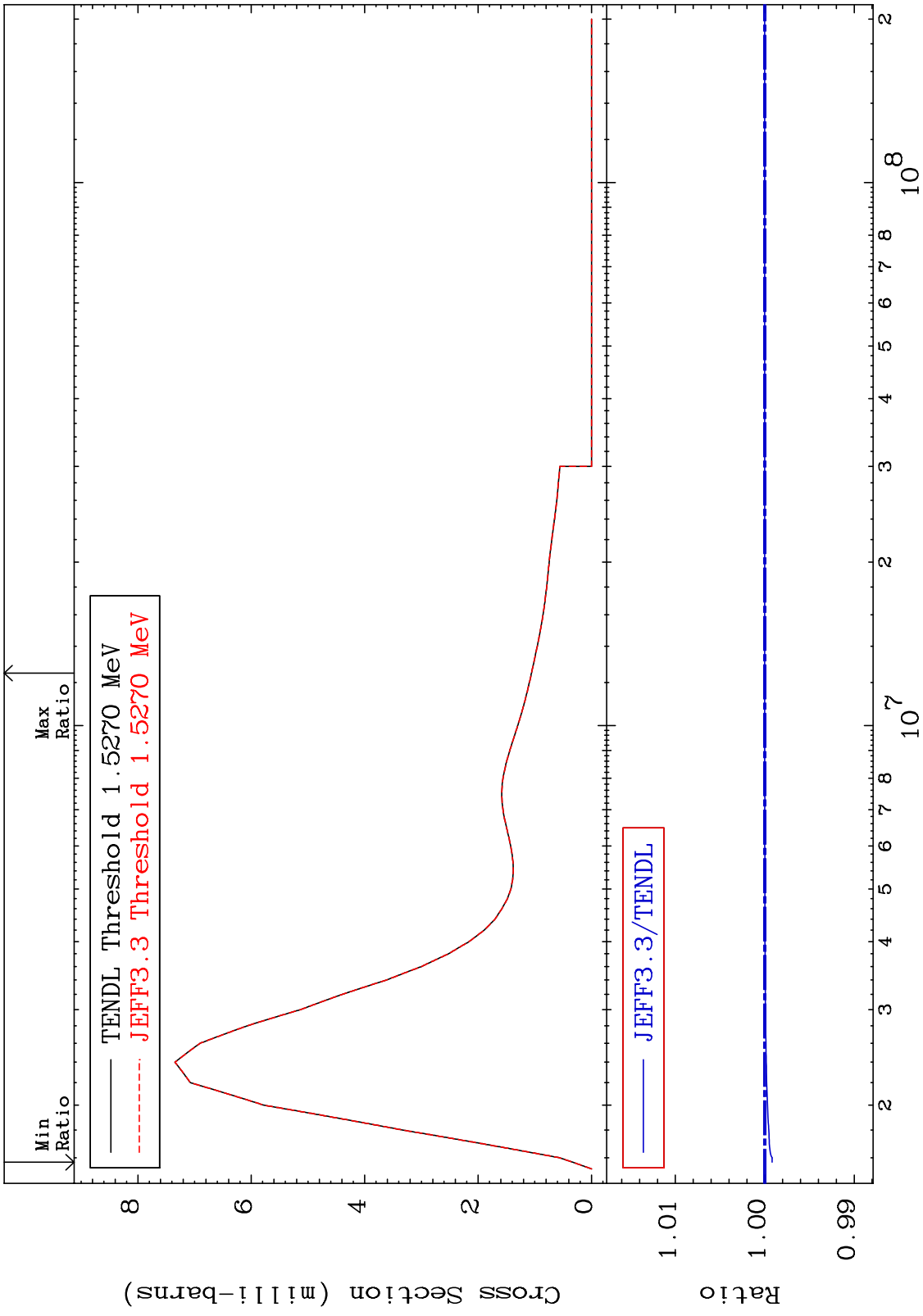
MAT 7043 MT= 59 (n, n') Level Cross Section 70-Yb-174
 -0.037 To 0.505 %



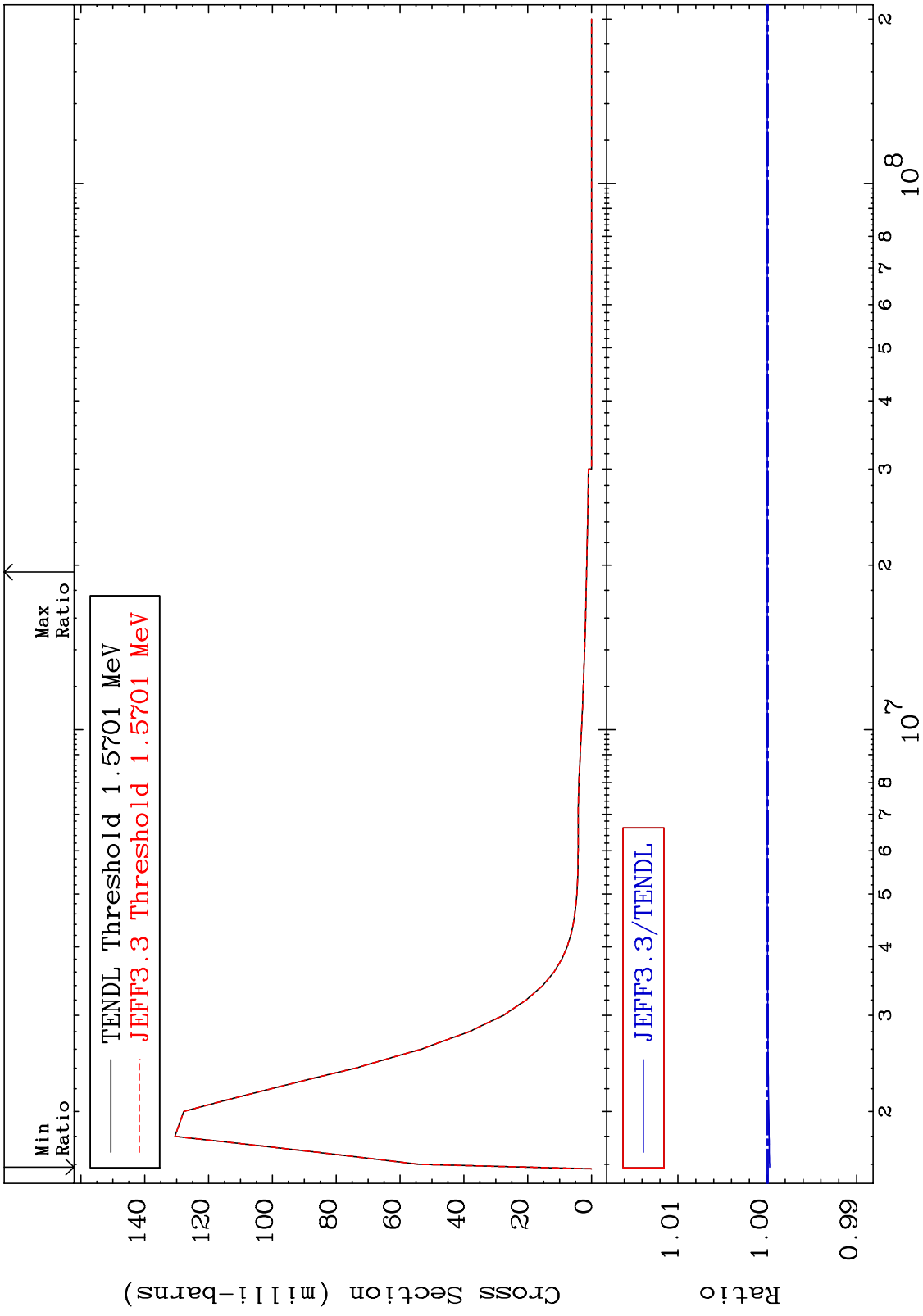
MAT 7043 MT= 60 (n,n') Level Cross Section 70-Yb-174 -0.024 To 0.505 %



MAT 7043 MT= 61 (n,n') Level Cross Section 70-Yb-174 -0.082 To 0.000 %

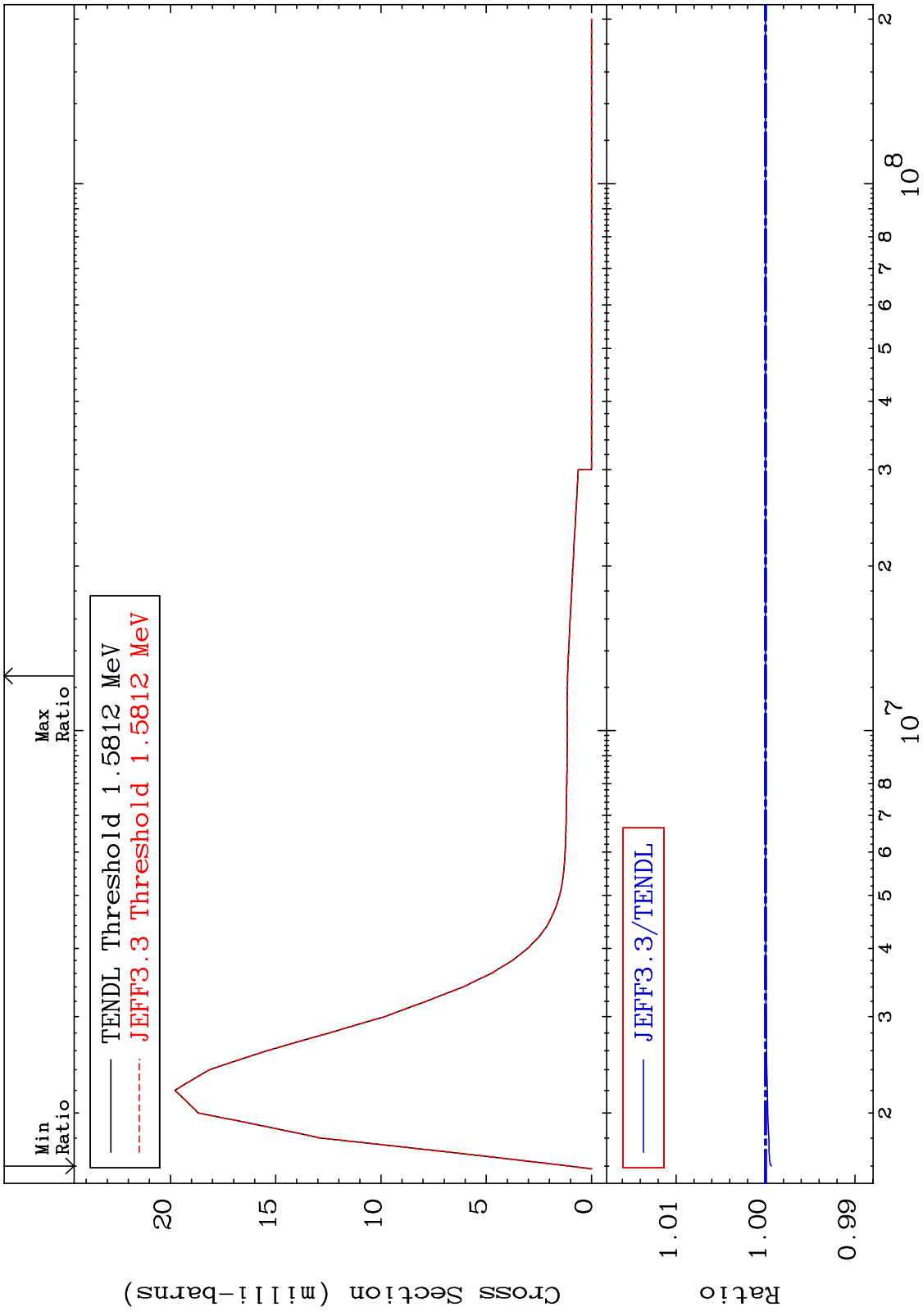


MAT 7043 MT= 62 (n,n') Level Cross Section 70-Yb-174
 -0.026 To 0.000 %

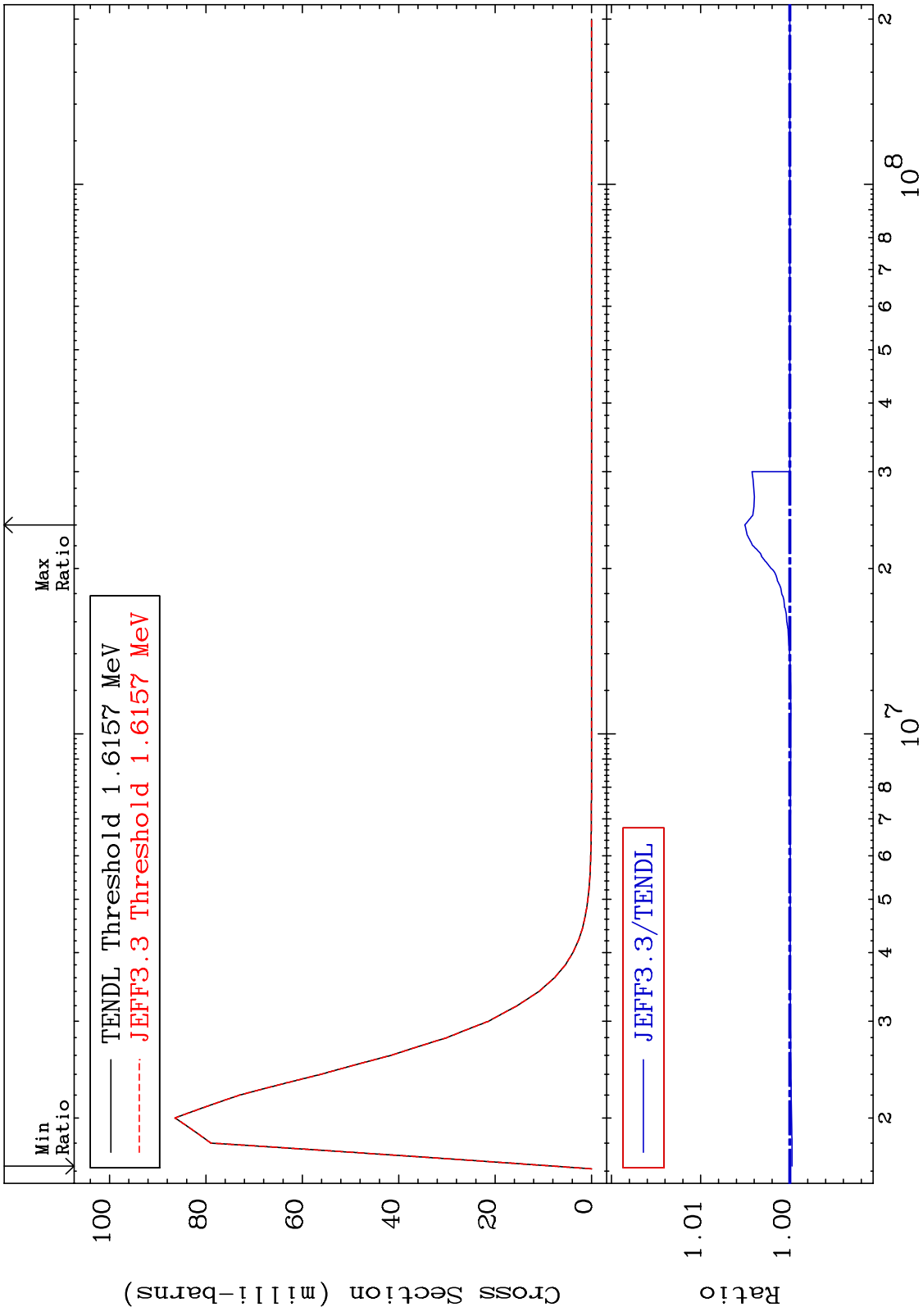


30 70-Yb-174 Incident Energy (eV)

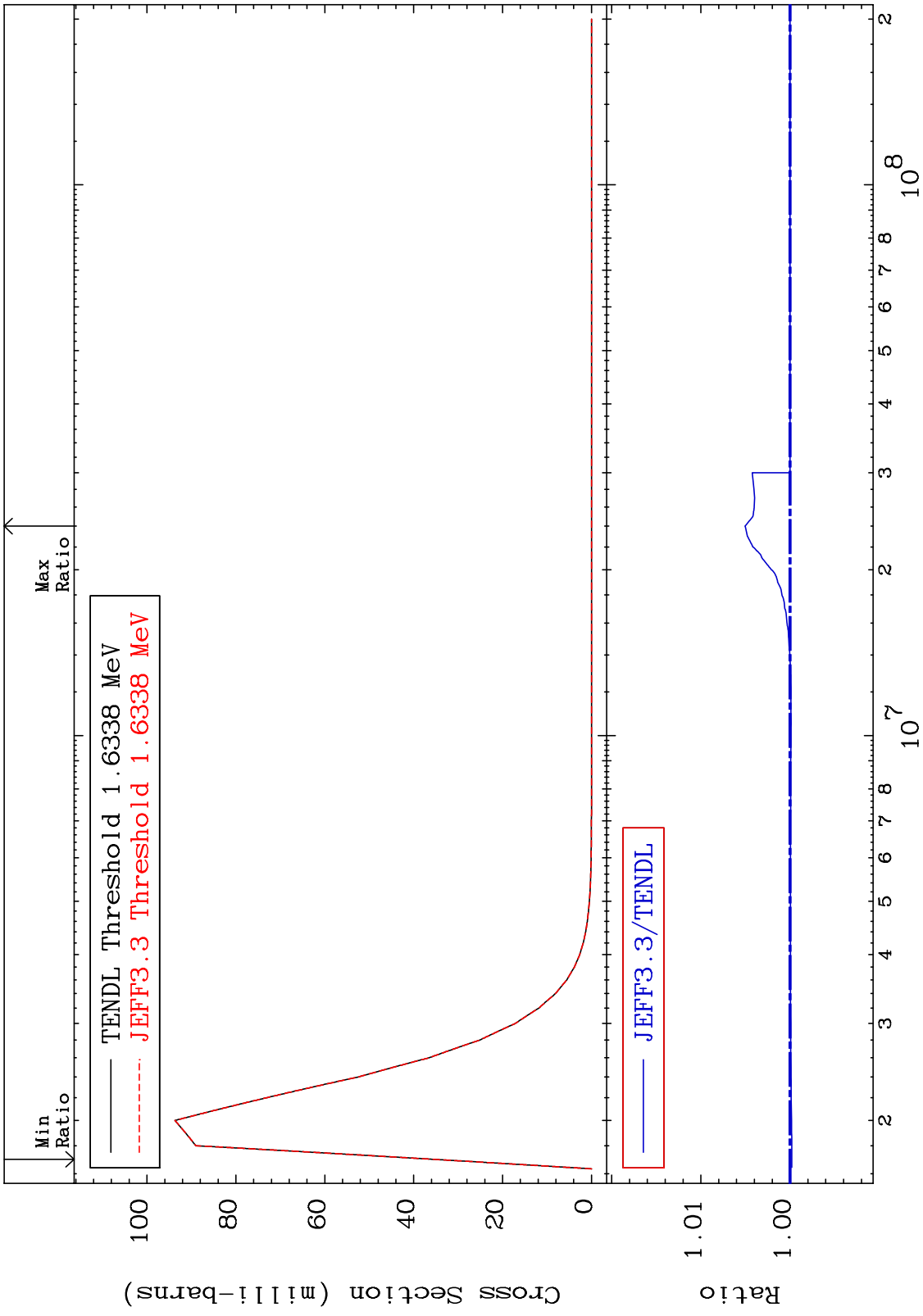
MAT 7043 MT= 63 (n,n') Level Cross Section 70-Yb-174 -0.066 To 0.000 %



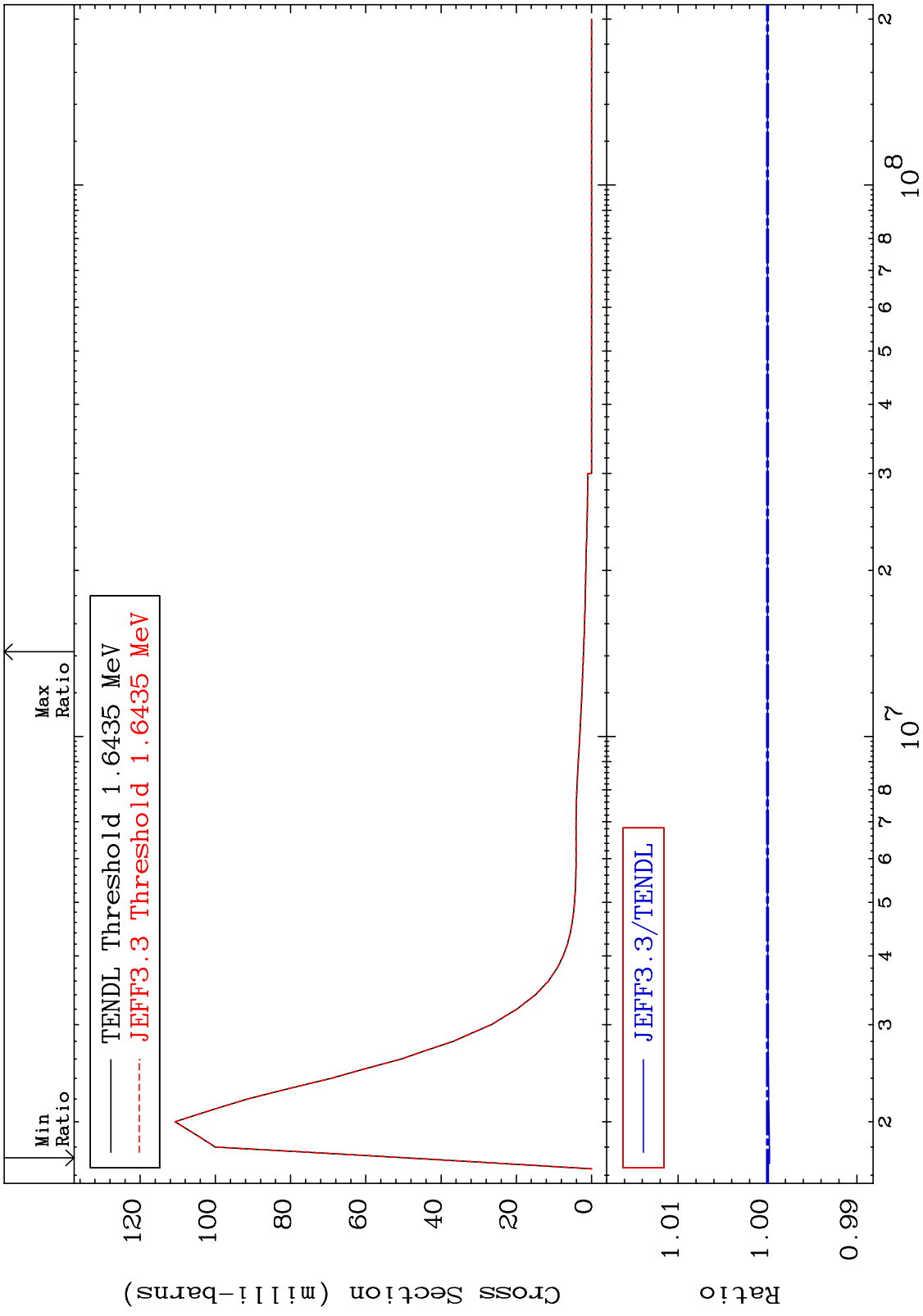
MAT 7043 MT= 64 (n,n') Level Cross Section -0.024 To 0.505 % 70-Yb-174



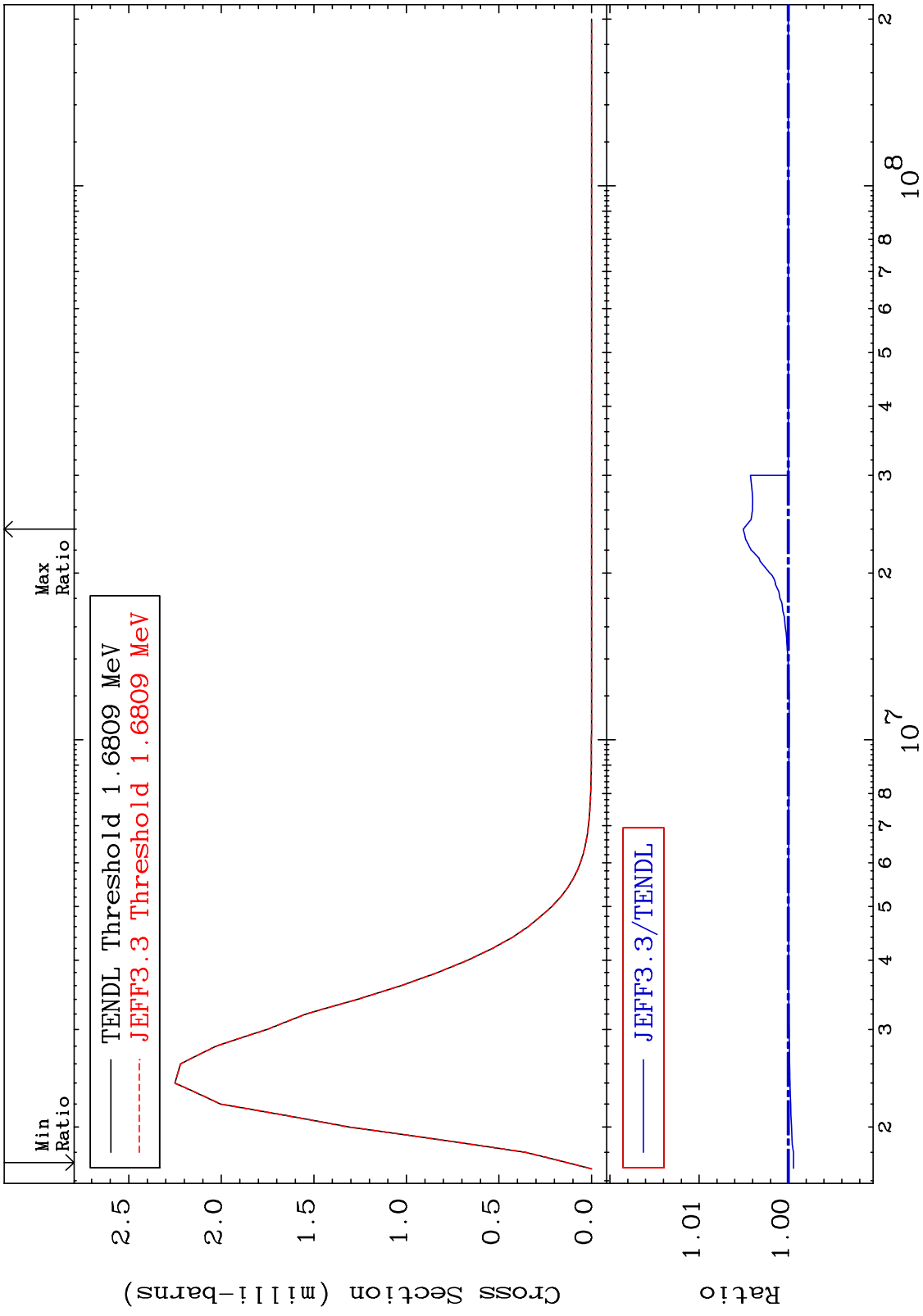
MAT 7043 MT= 65 (n,n') Level Cross Section -0.019 To 0.504 % 70-Yb-174



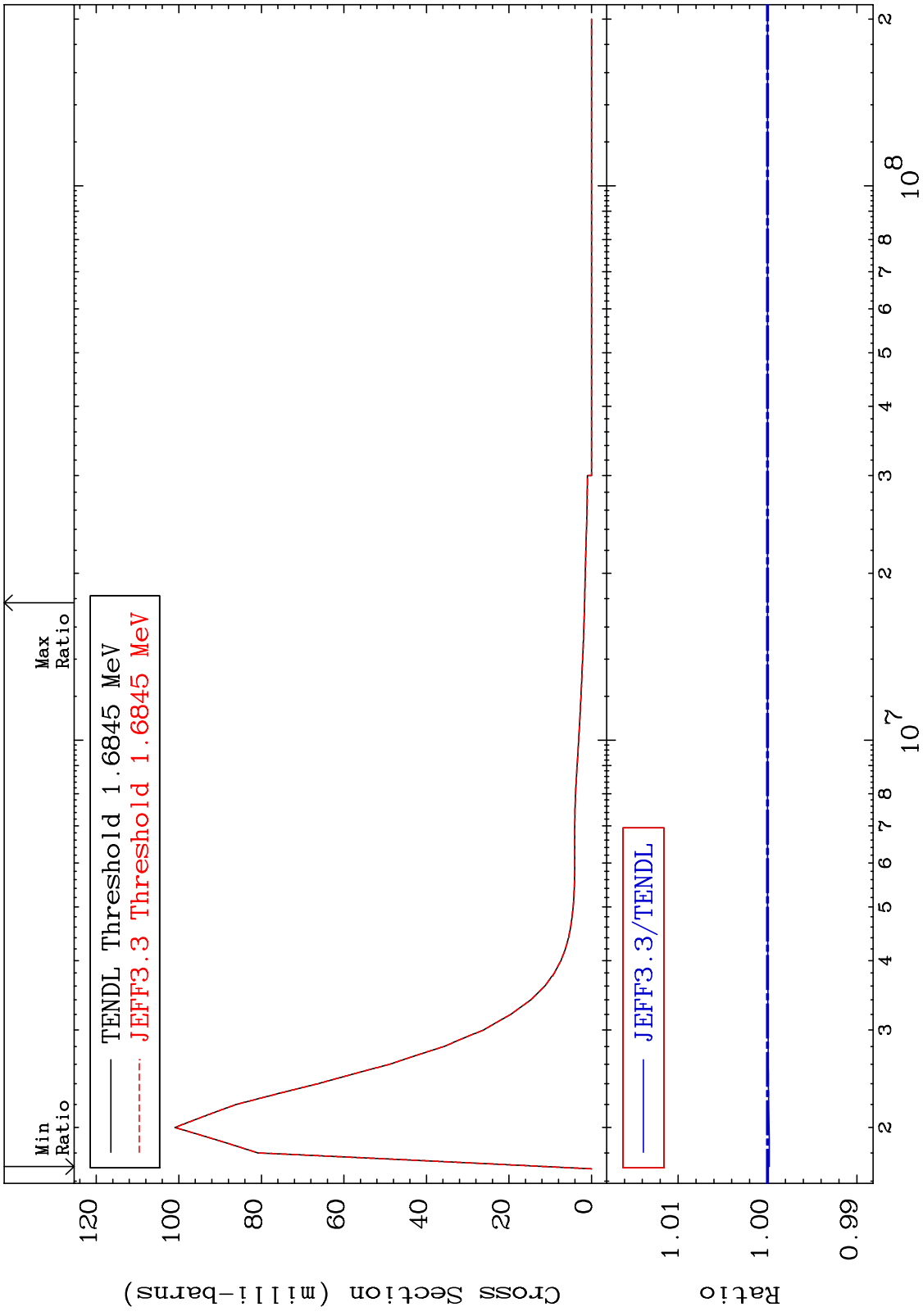
MAT 7043 MT= 66 (n,n') Level Cross Section -0.021 To 0.000 % 70-Yb-174



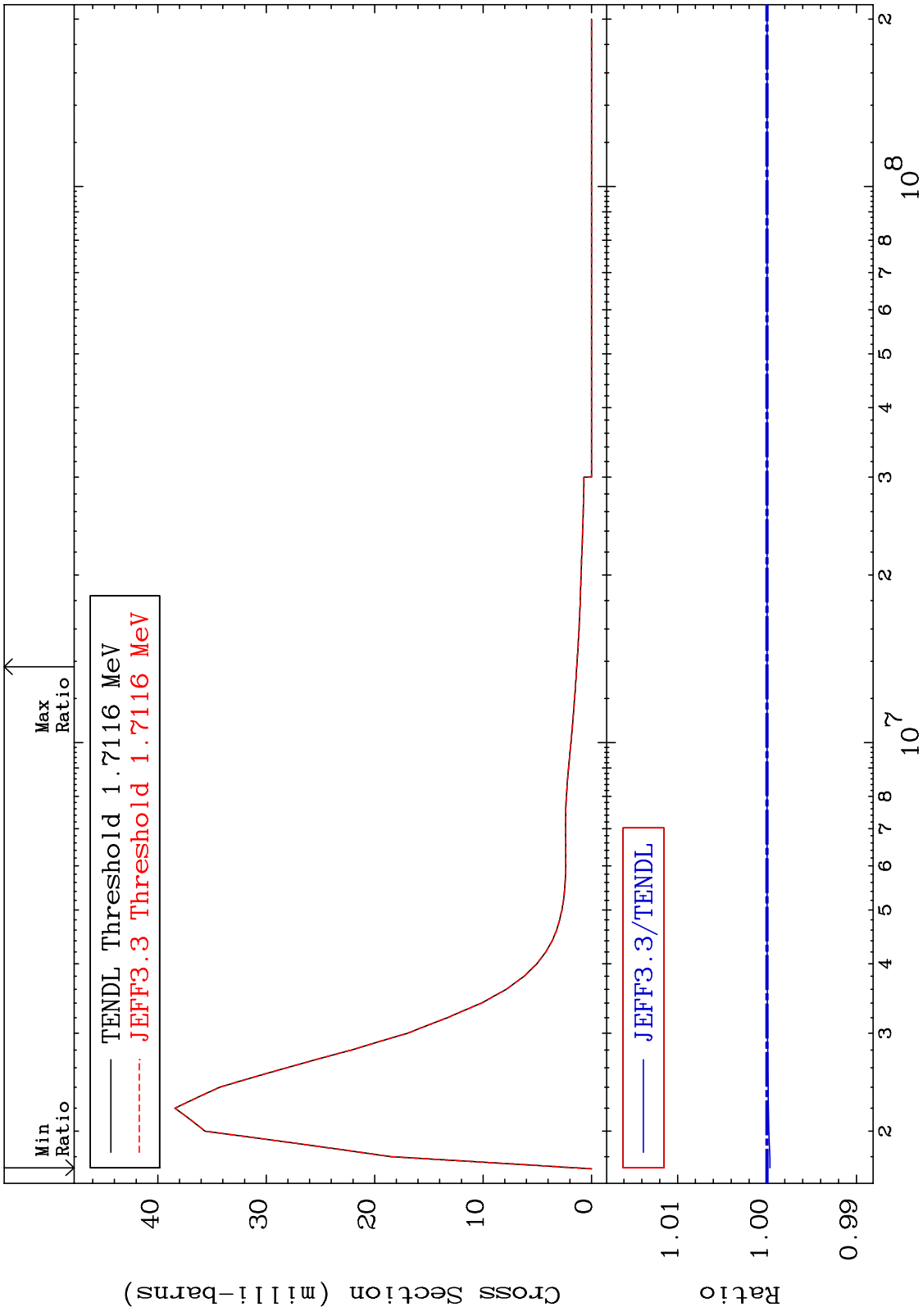
MAT 7043 MT= 67 (n,n') Level Cross Section 70-Yb-174 -0.059 To 0.505 %



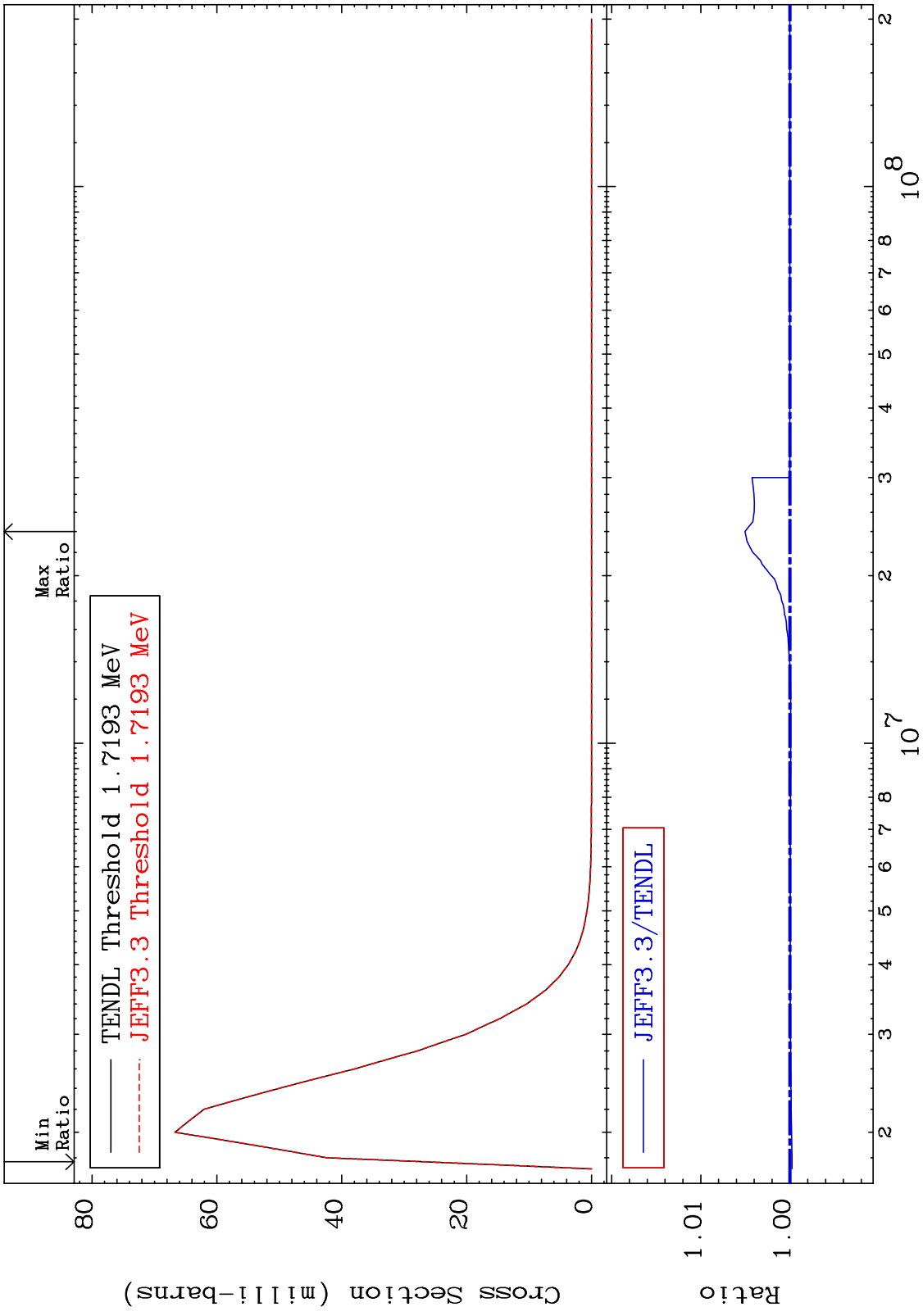
MAT 7043 MT= 68 (n,n') Level Cross Section 70-Yb-174 -0.020 To 0.000 %



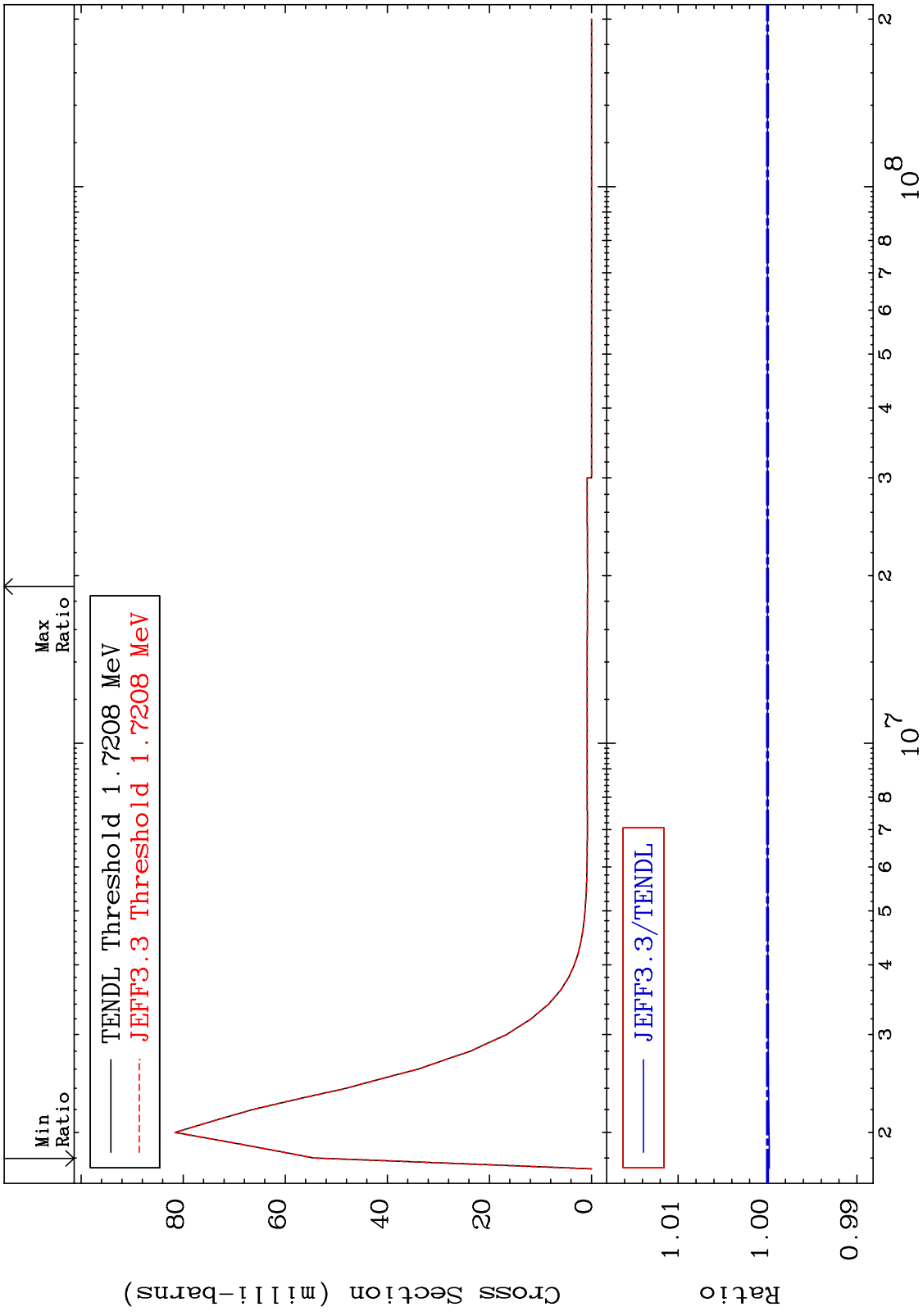
MAT 7043 MT= 69 (n,n') Level Cross Section 70-Yb-174 -0.033 To 0.000 %



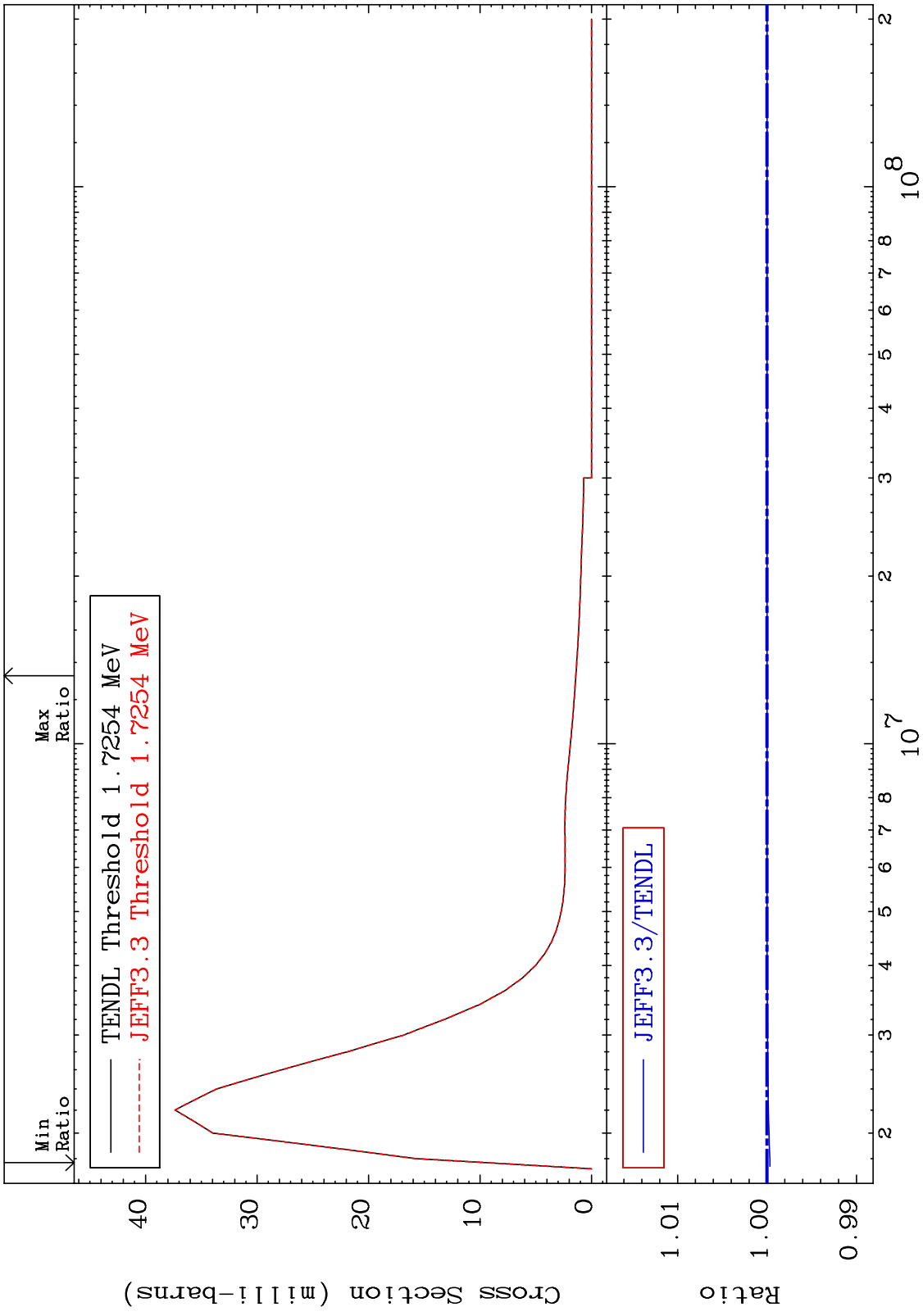
MAT 7043 MT= 70 (n,n') Level Cross Section 70-Yb-174 -0.023 To 0.505 %



MAT 7043 MT= 71 (n,n') Level Cross Section 70-Yb-174
 -0.019 To 0.000 %

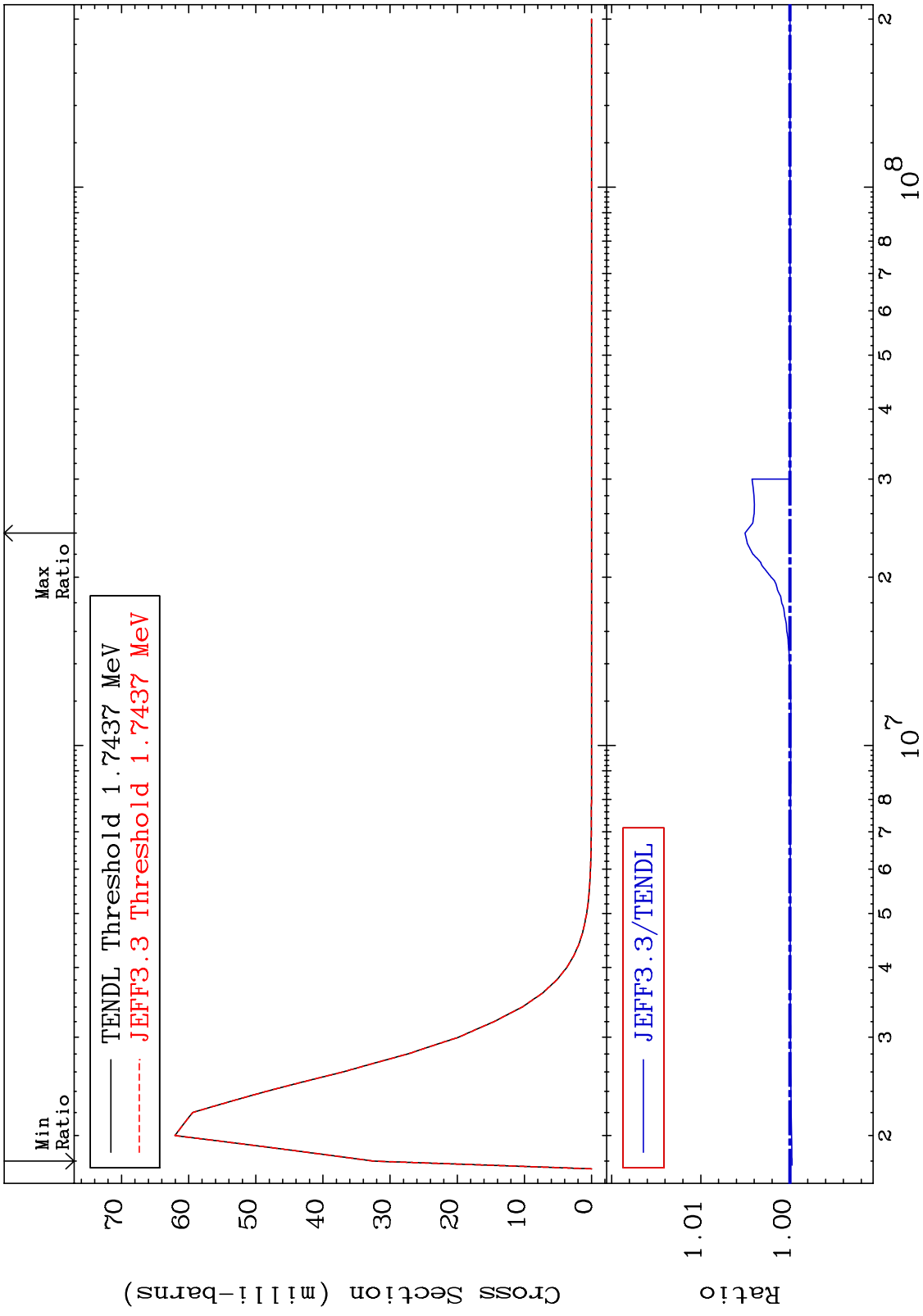


MAT 7043 MT= 72 (n,n') Level Cross Section 70-Yb-174
 -0.033 To 0.000 %

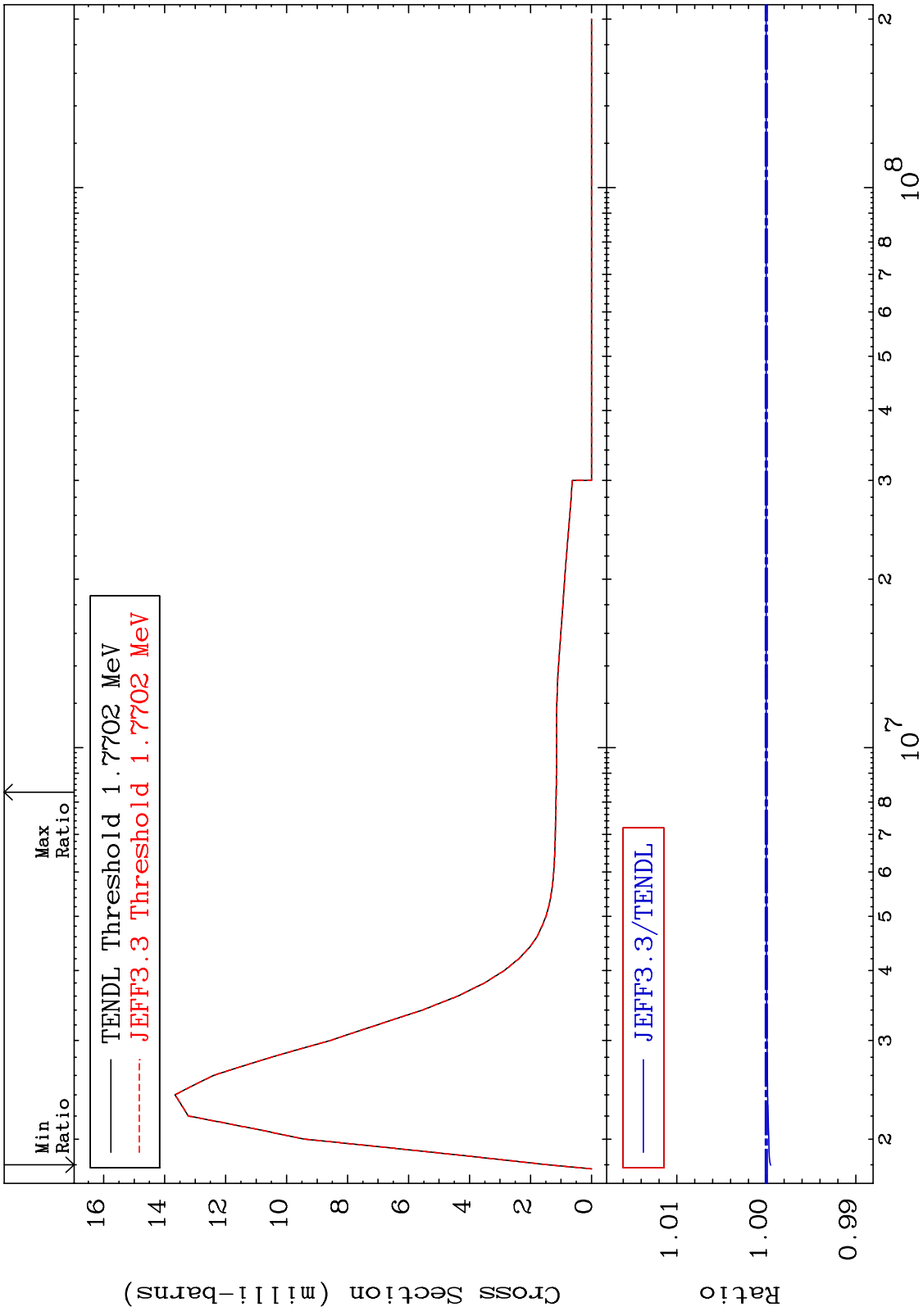


40 Incident Energy (eV) 70-Yb-174

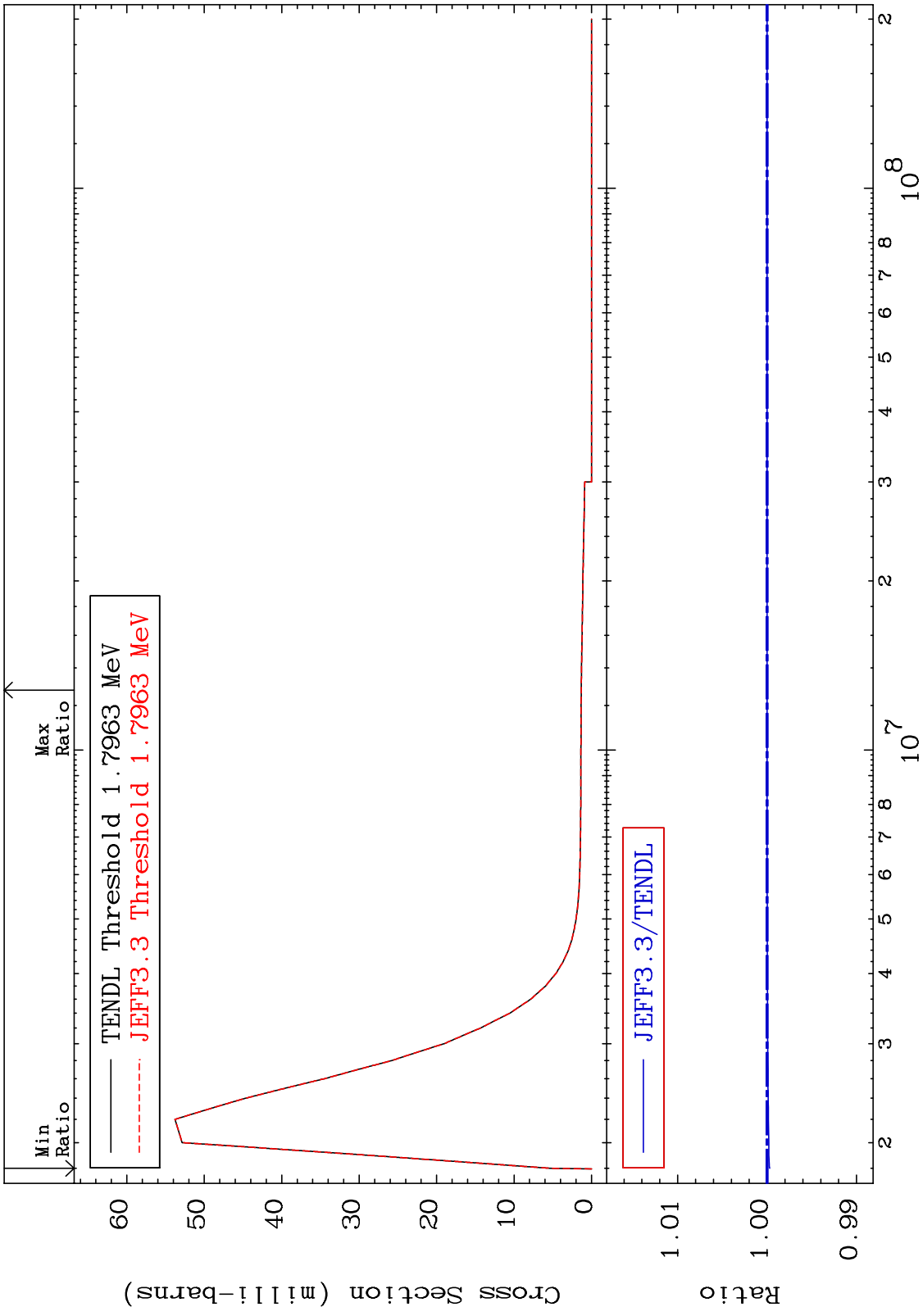
MAT 7043 MT= 73 (n,n') Level Cross Section 70-Yb-174 -0.023 To 0.505 %



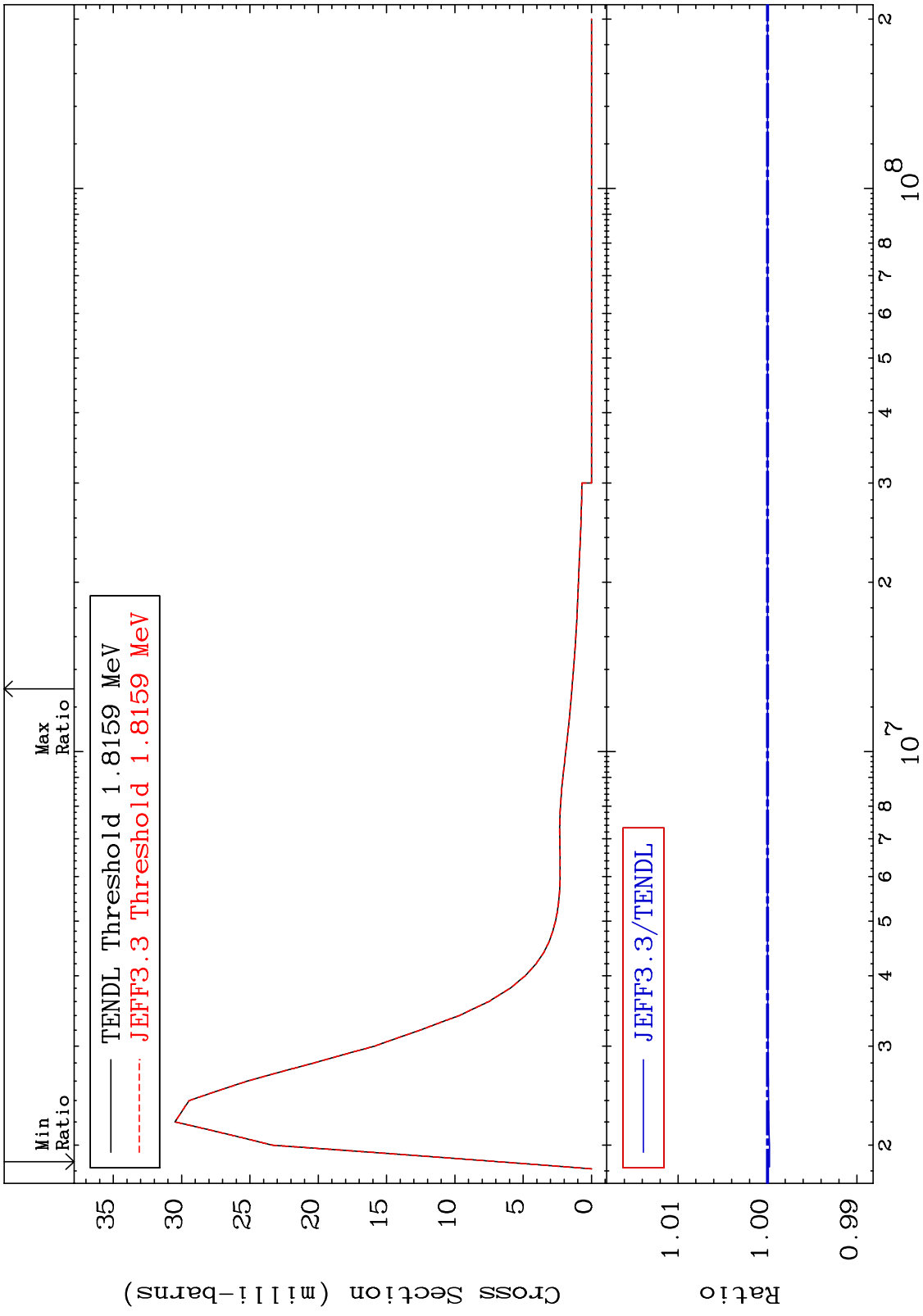
MAT 7043 MT= 74 (n,n') Level Cross Section 70-Yb-174
 -0.048 To 0.000 %



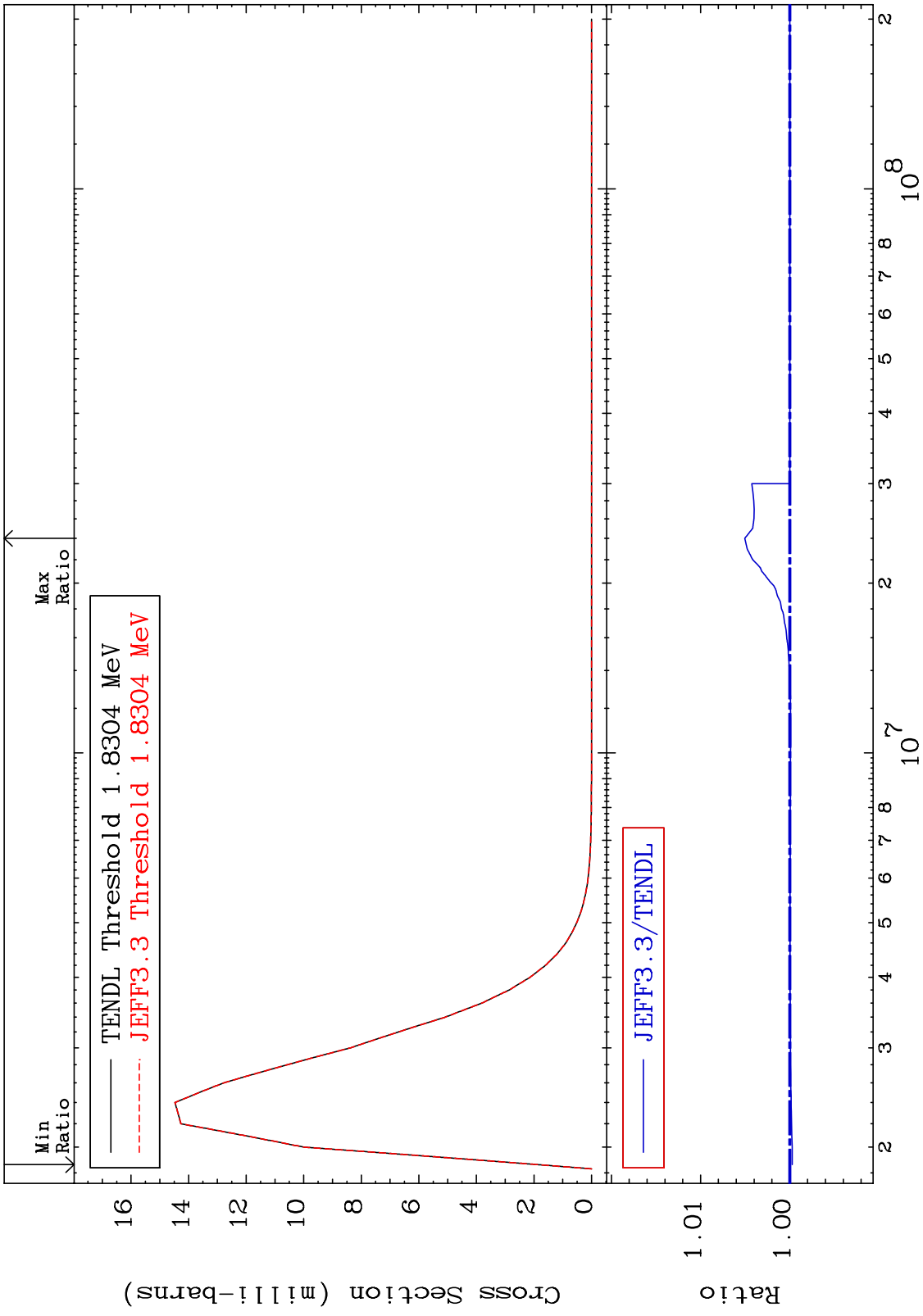
MAT 7043 MT= 75 (n,n') Level Cross Section 70-Yb-174
 -0.030 To 0.000 %



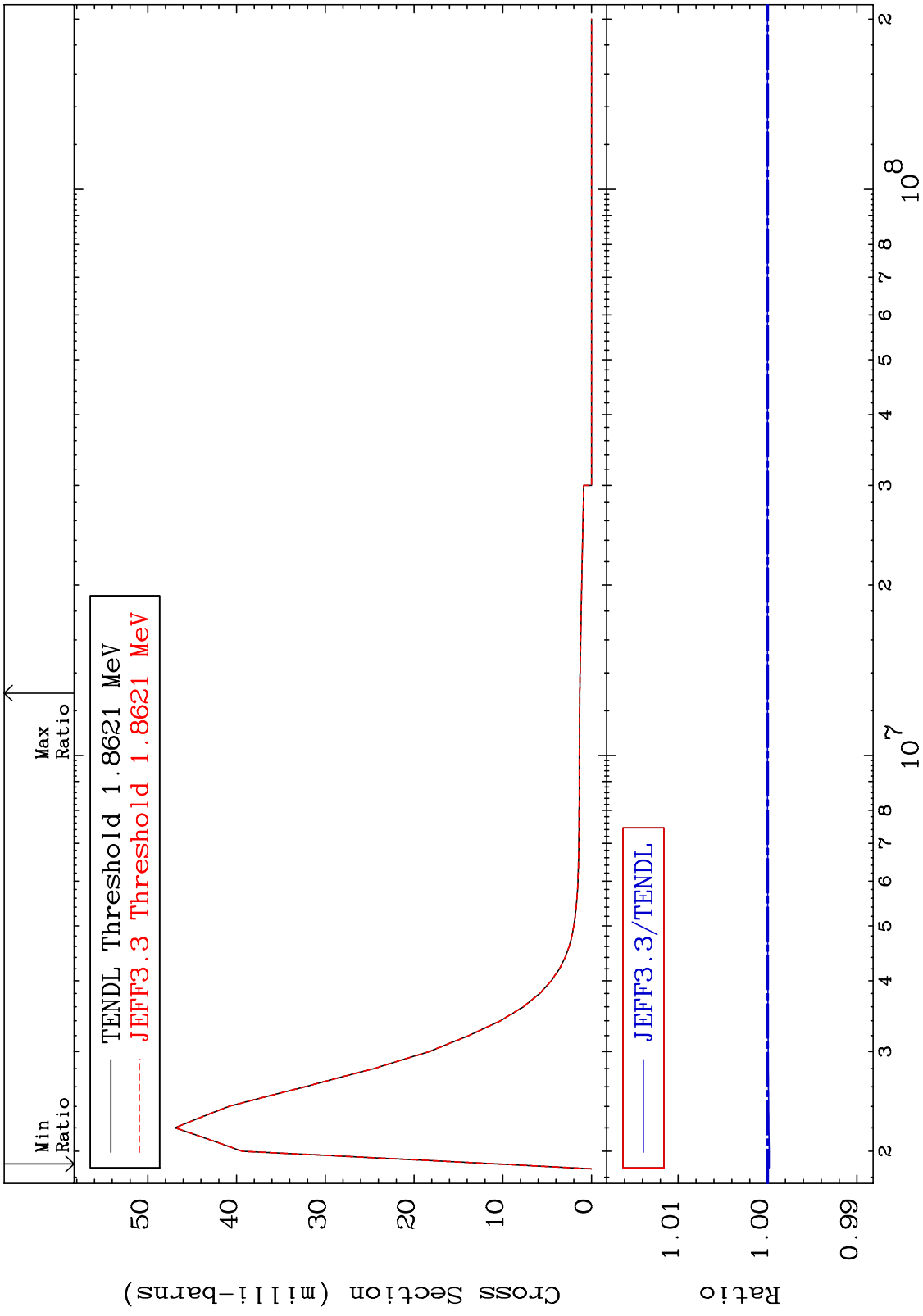
MAT 7043 MT= 76 (n,n') Level Cross Section 70-Yb-174
 -0.023 To 0.000 %



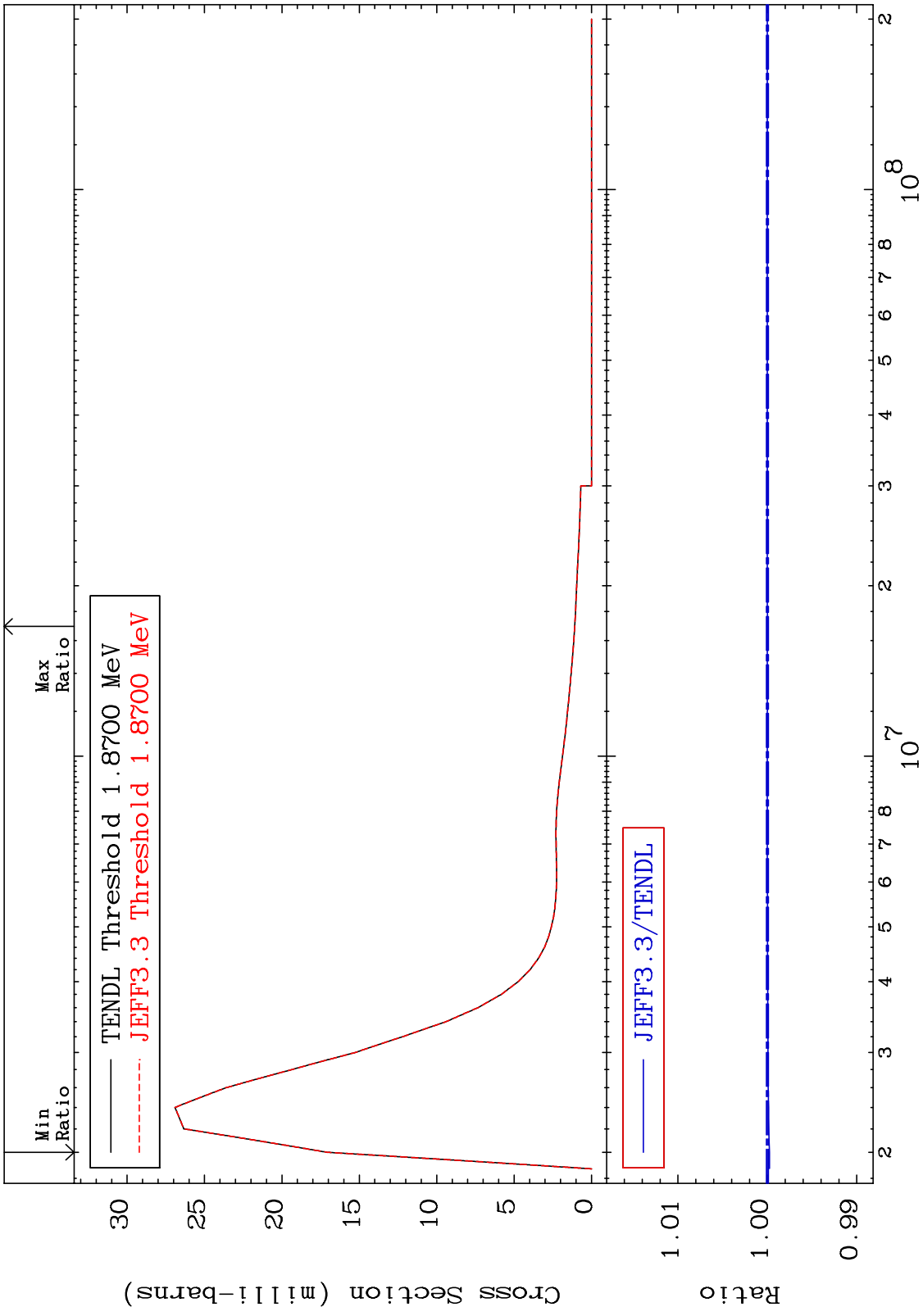
MAT 7043 MT= 77 (n,n') Level Cross Section 70-Yb-174 -0.027 To 0.505 %



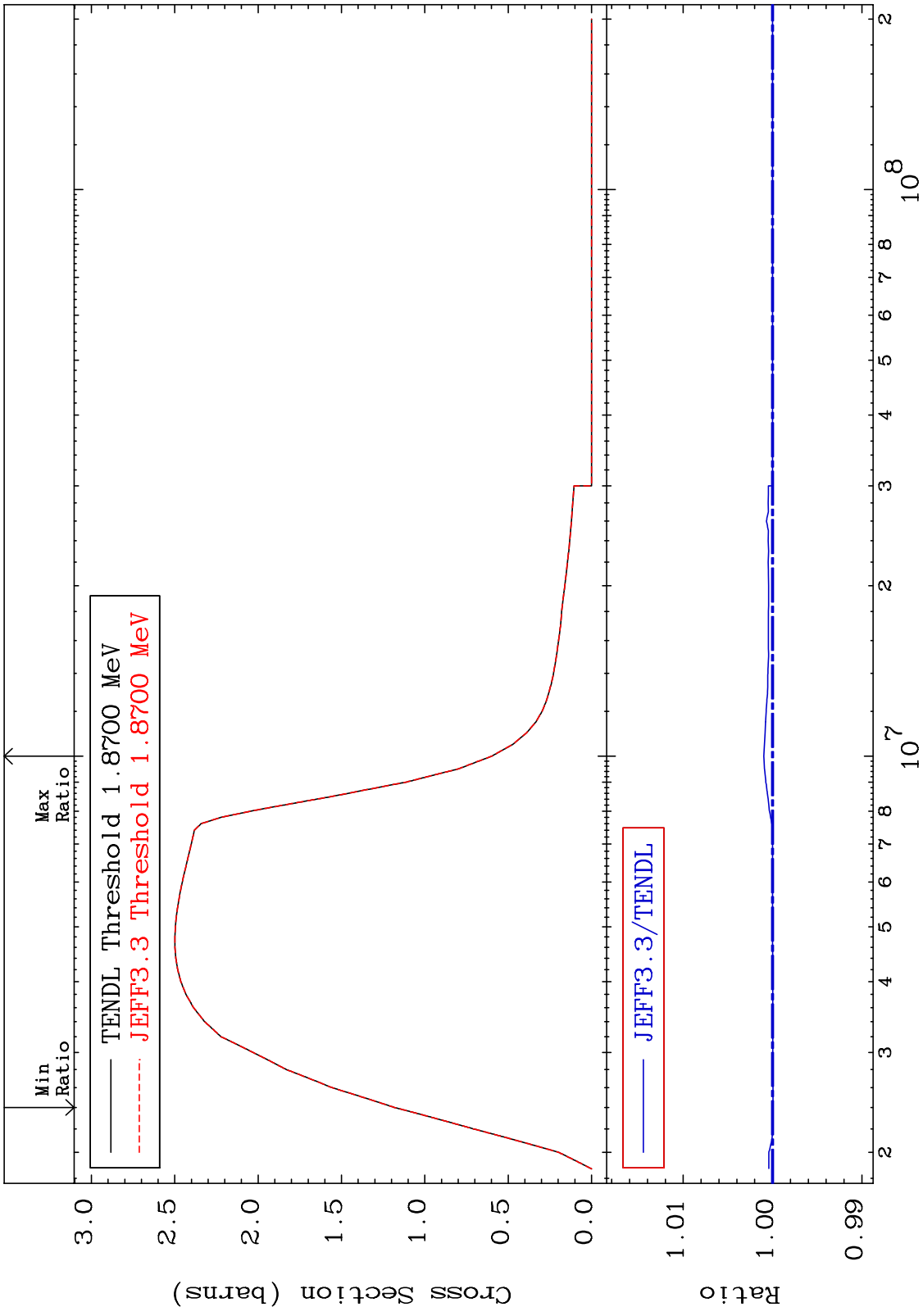
MAT 7043 MT= 78 (n,n') Level Cross Section 70-Yb-174
 -0.019 To 0.000 %



MAT 7043 MT= 79 (n,n') Level Cross Section 70-Yb-174
 -0.023 To 0.000 %



MAT 7043 70-Yb-174
-0.005 To 0.097 %
 (n, n') Continuum
 Cross Section



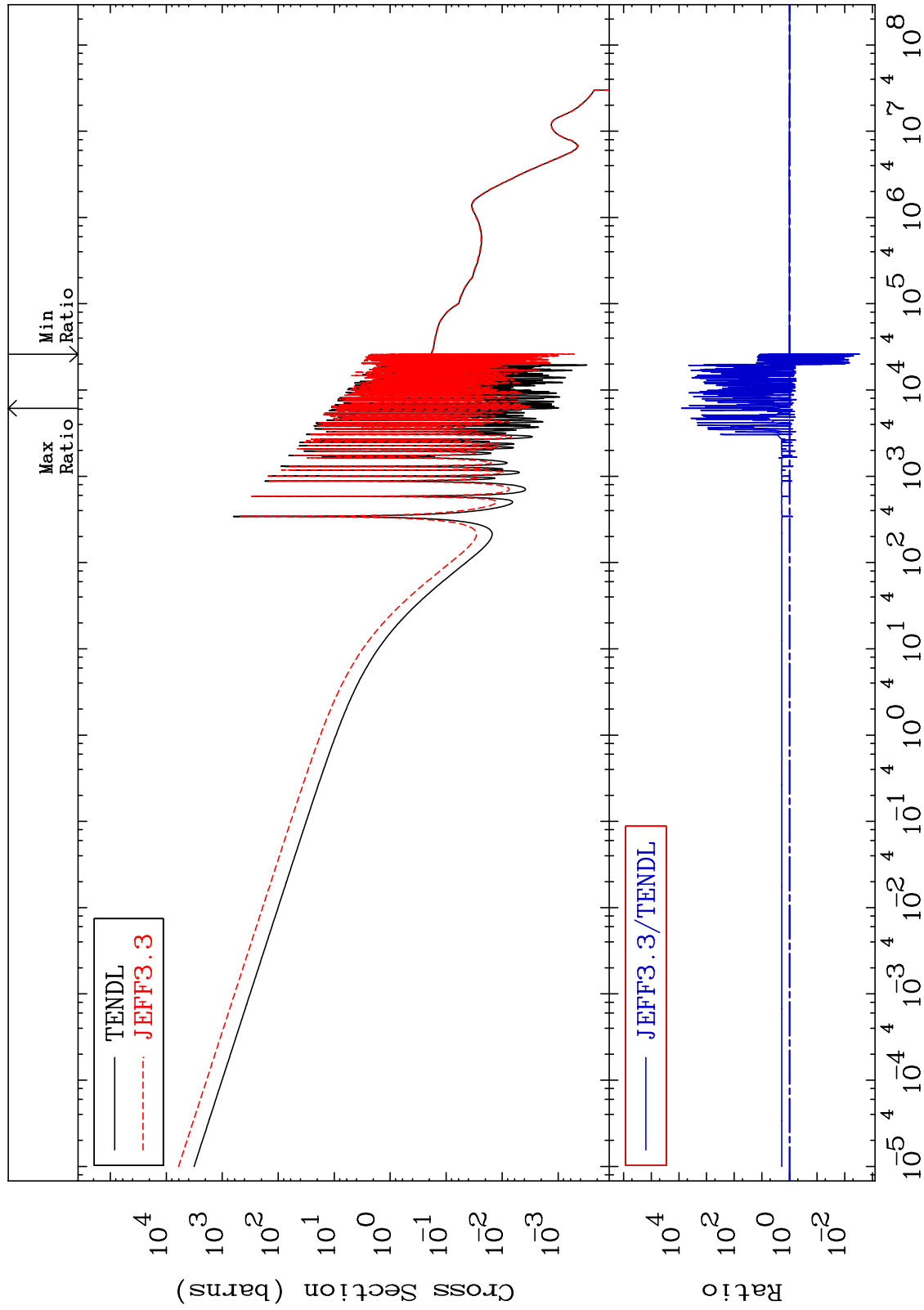
MAT 7043

(n, γ)

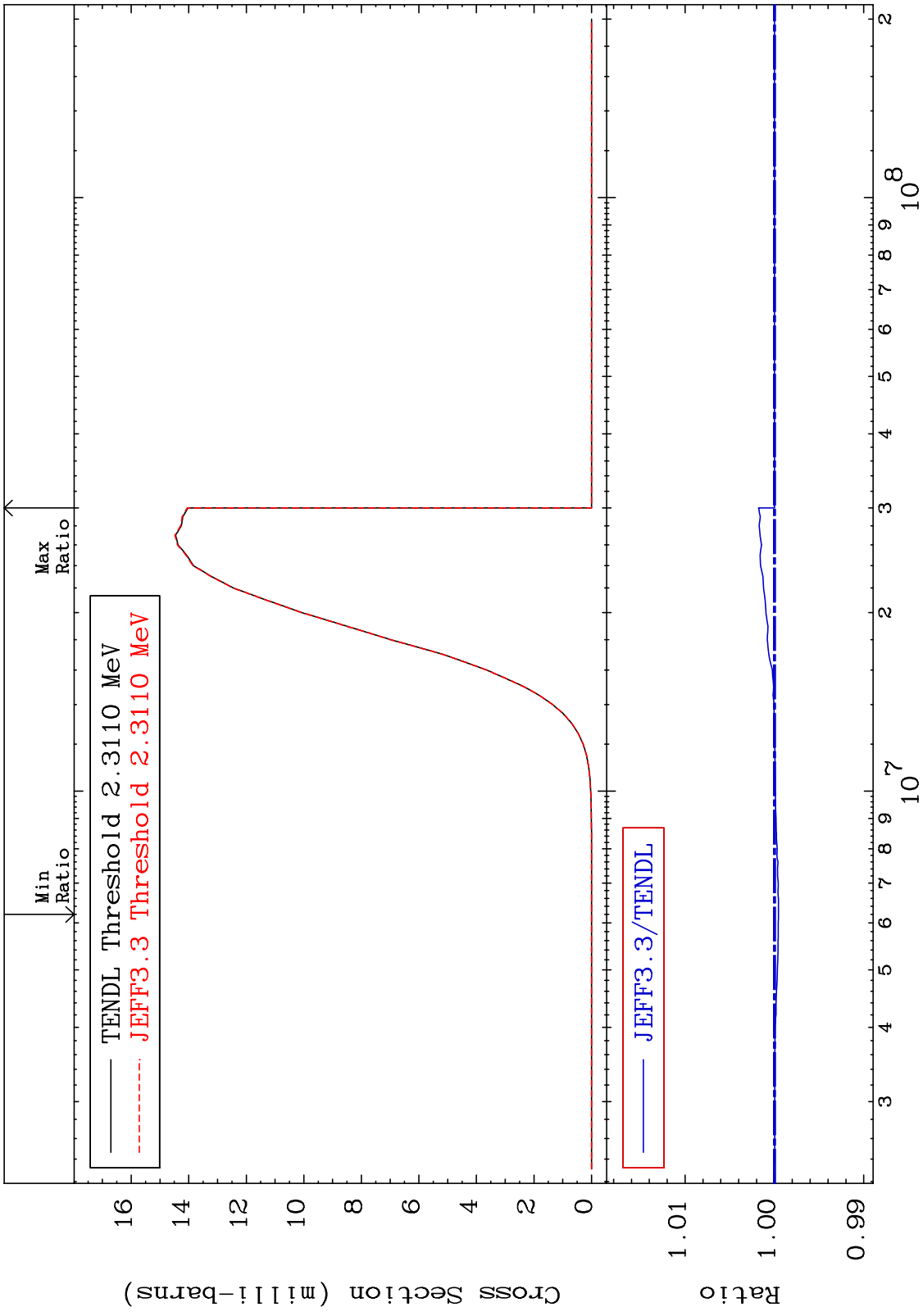
70-Yb-174

Cross Section

-99.72 To 9999. %



MAT 7043 $^{70}\text{Yb-174}$ (n,p) Cross Section $^{-0.044}$ To 0.178 %



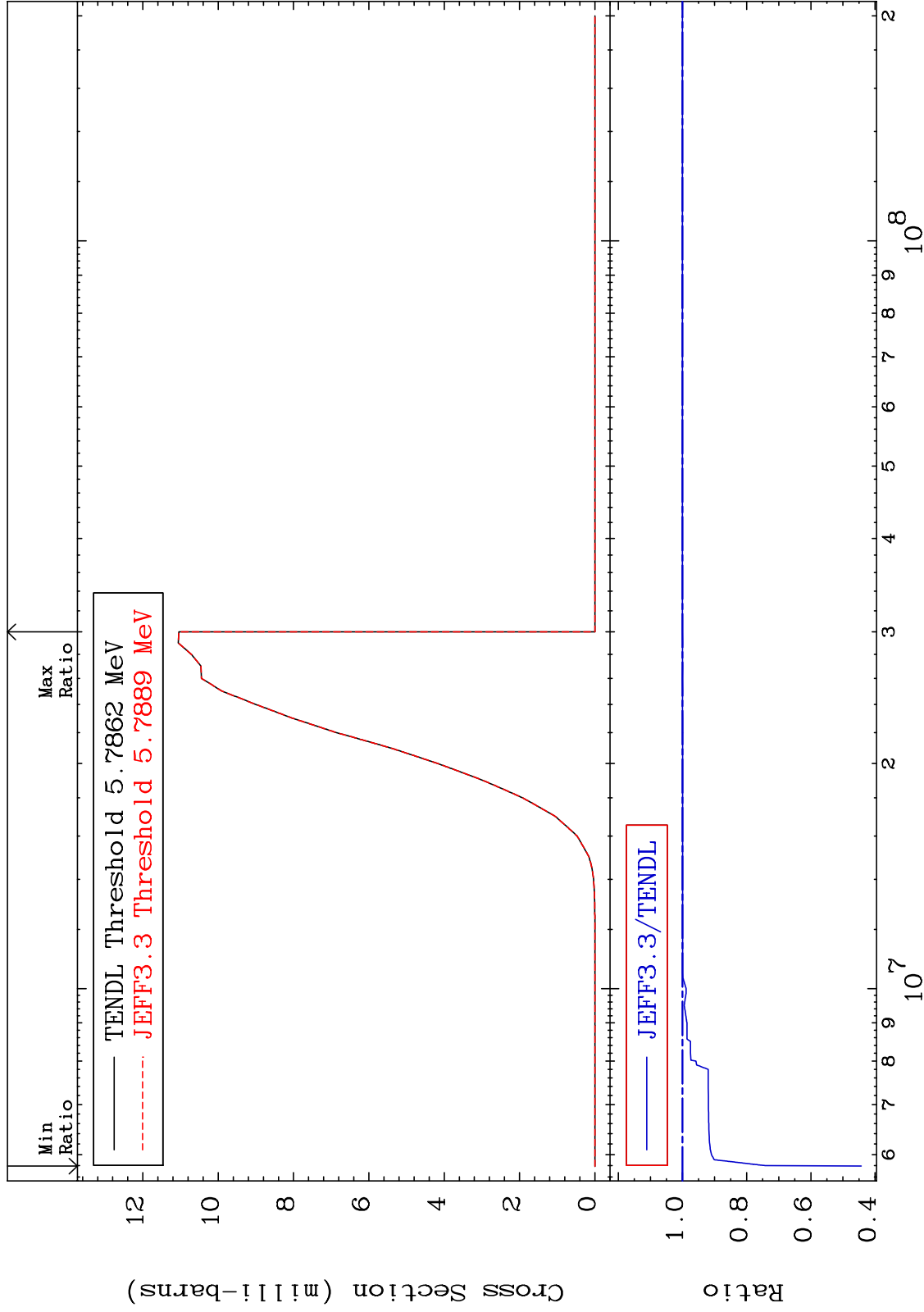
MAT 7043

(n,d)

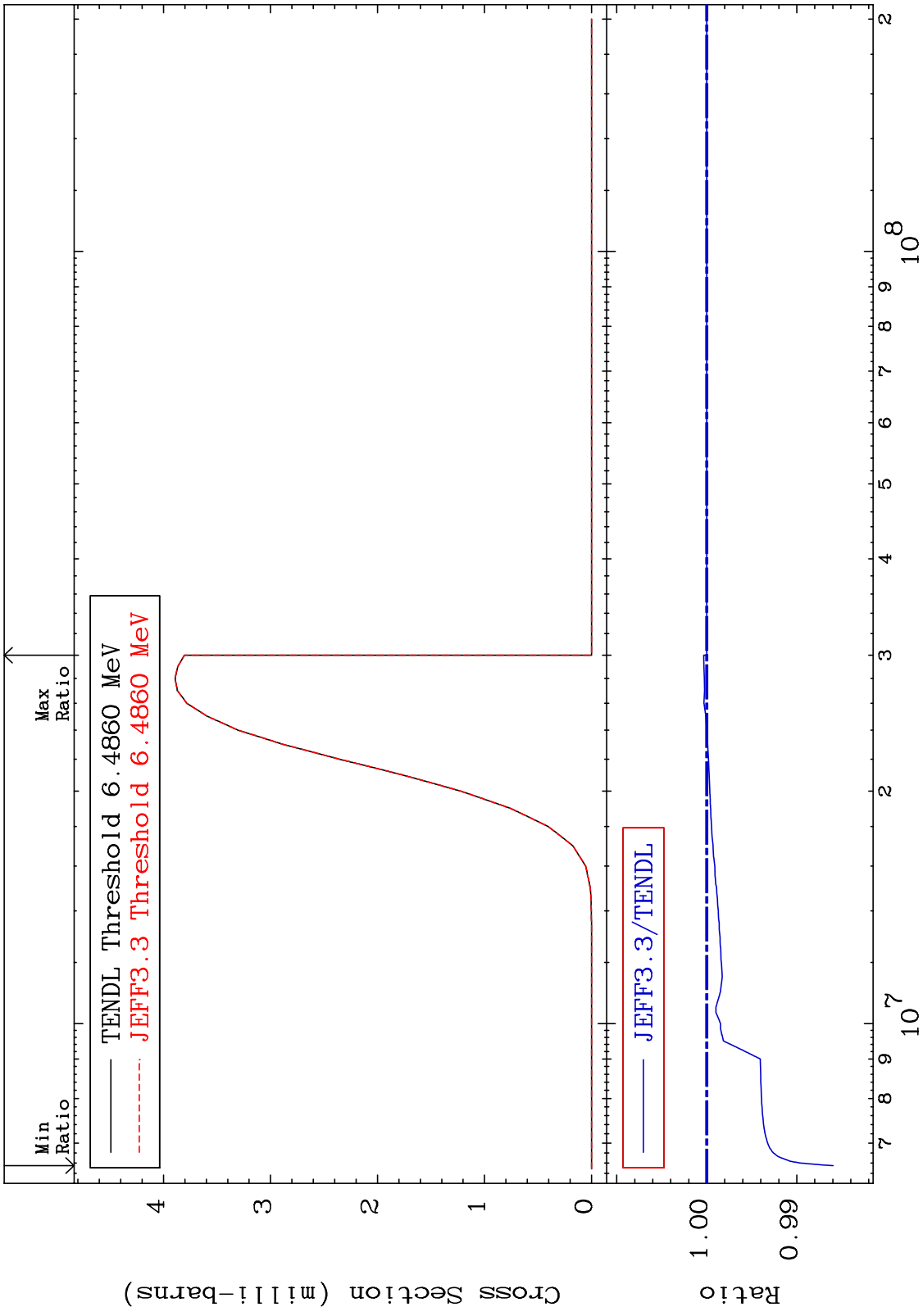
70-Yb-174

-55.71 To 0.012 %

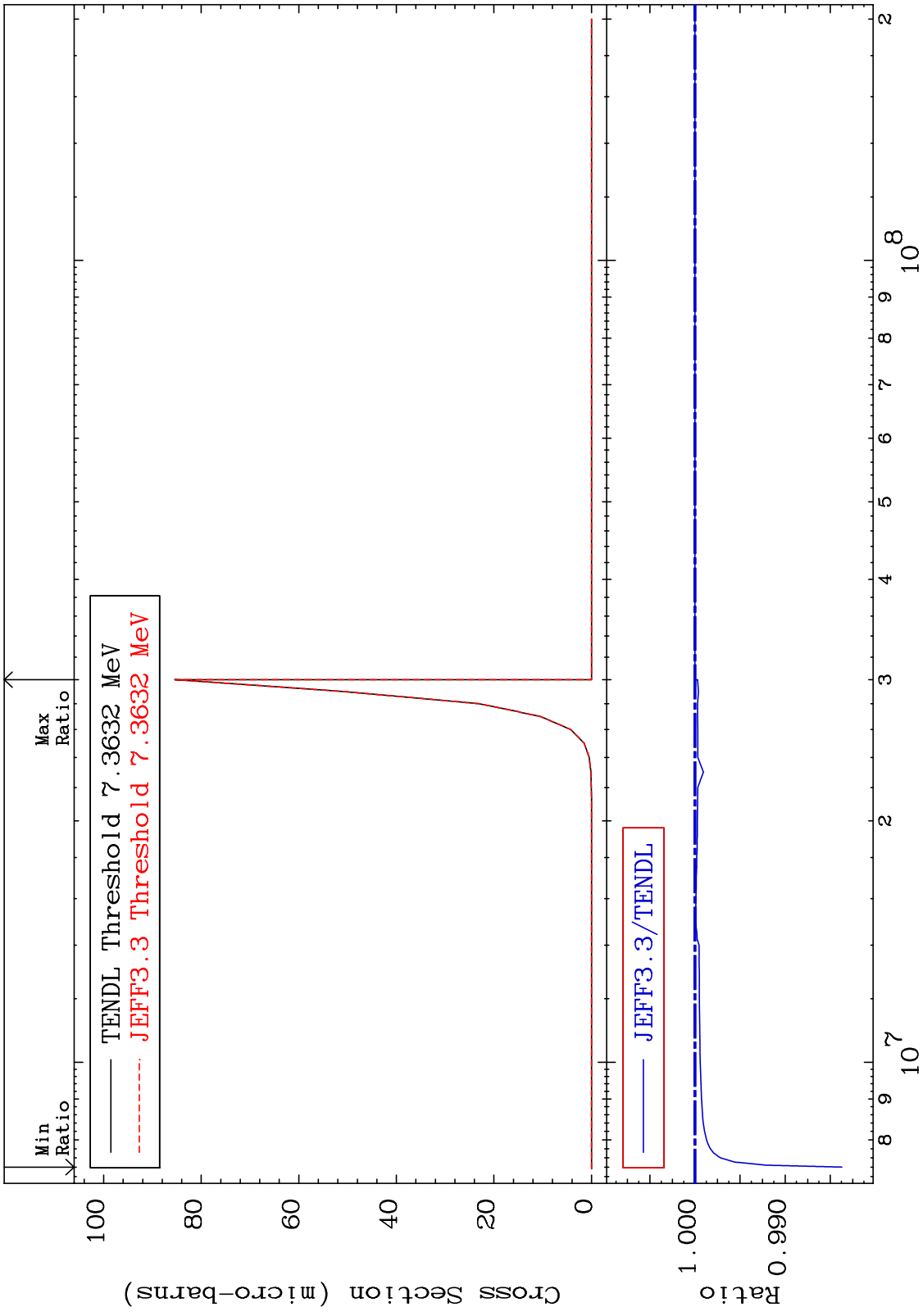
Cross Section



MAT 7043 70-Yb-174
-1.404 To 0.034 %
(n, t)
Cross Section

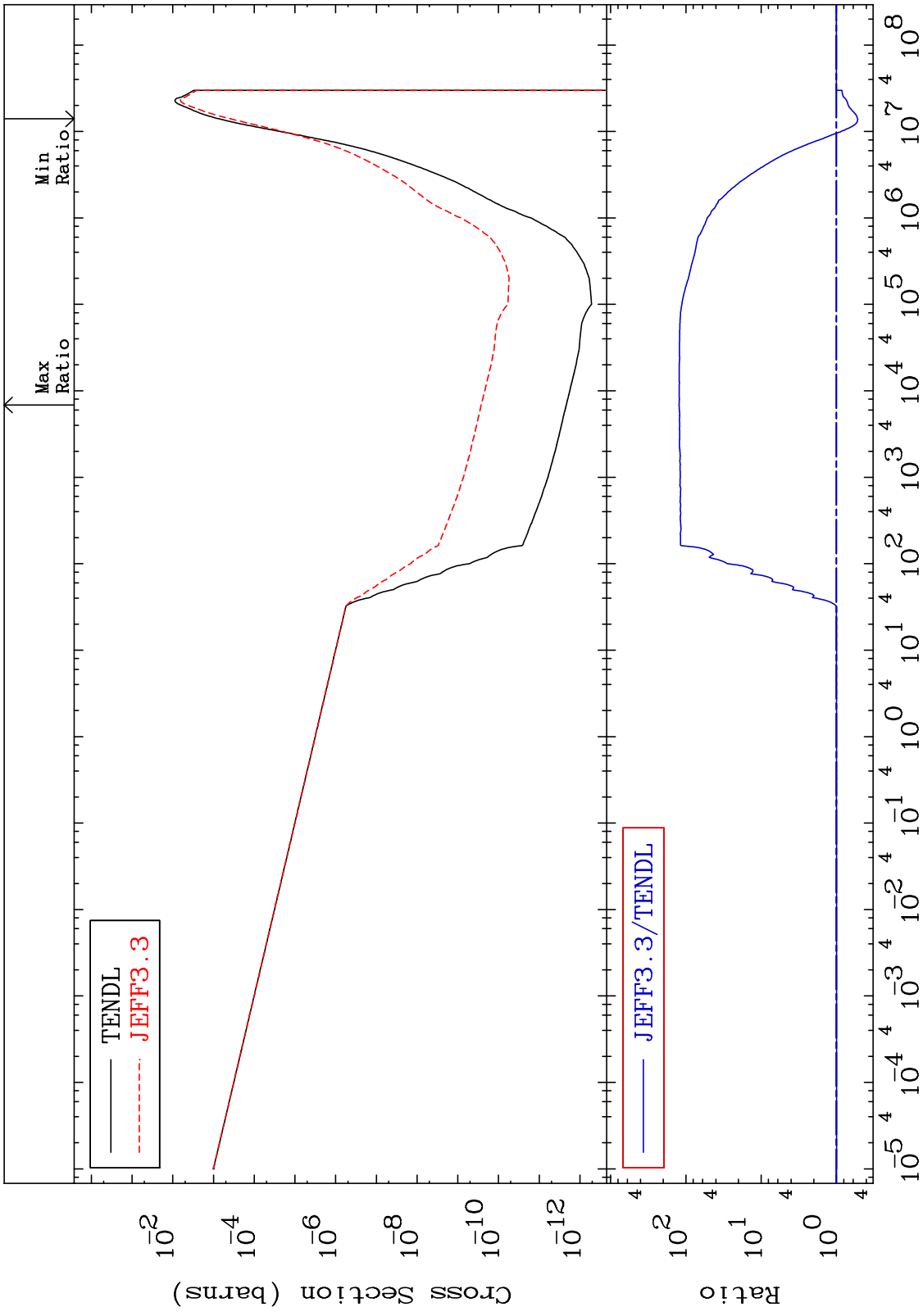


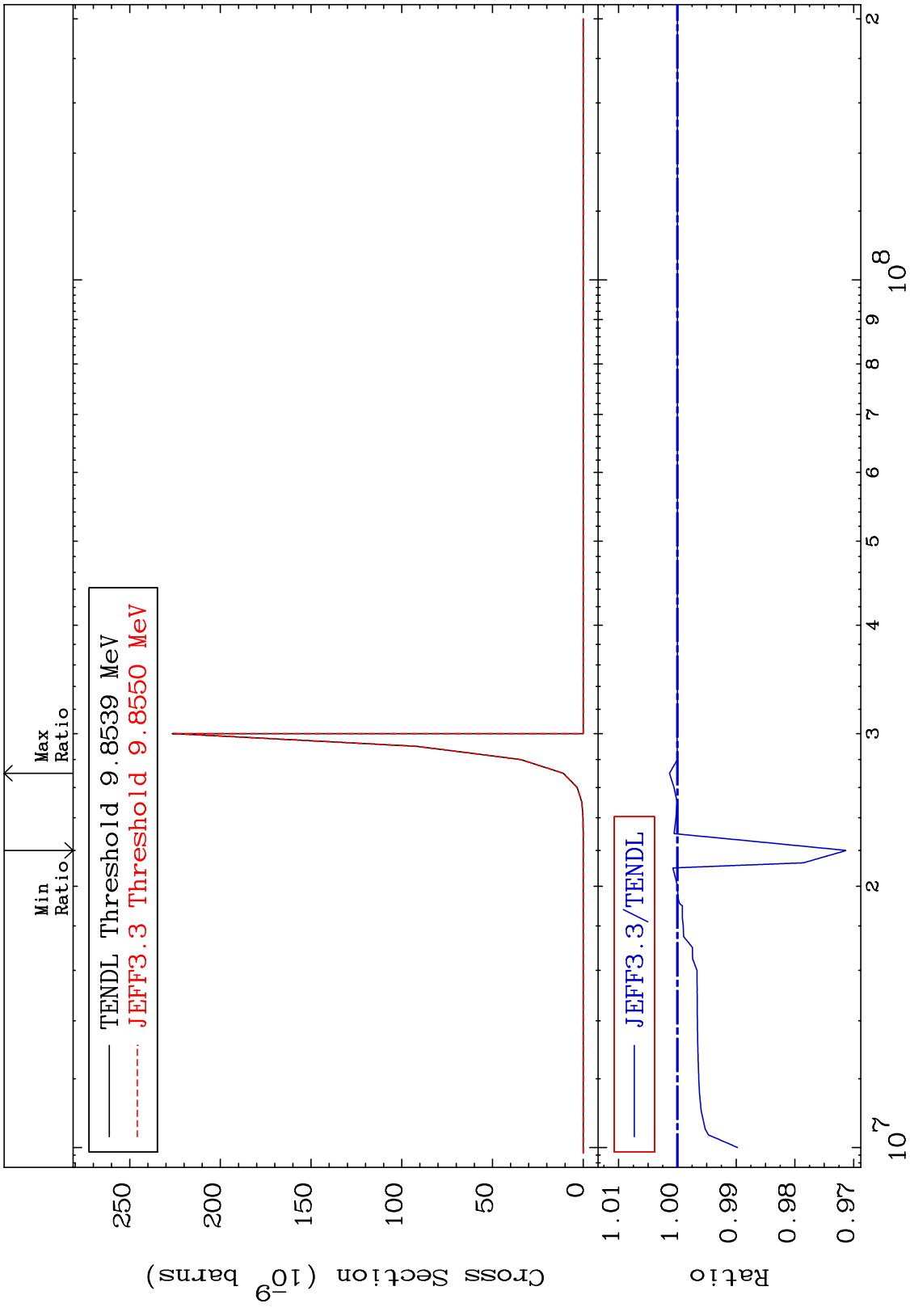
MAT 7043 (n, He-3) 70-Yb-174
 -1.630 To 0.000 %
 Cross Section



53 Incident Energy (eV) 70-Yb-174

MAT 7043 70-Yb-174
-48.00 To 9999. %
 (n, α)
 Cross Section





MAT 7043

(n,p) α

70-Yb-174

-17.04 To 9999. %

Cross Section

Max Ratio

Min Ratio

TENDL Threshold 2.3620 MeV

JEFF3.3 Threshold 2.3626 MeV

Cross Section (10^9 barns)

8

6

4

2

0

JEFF3.3/TENDL

Ratio

10^2

10^1

10^0

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

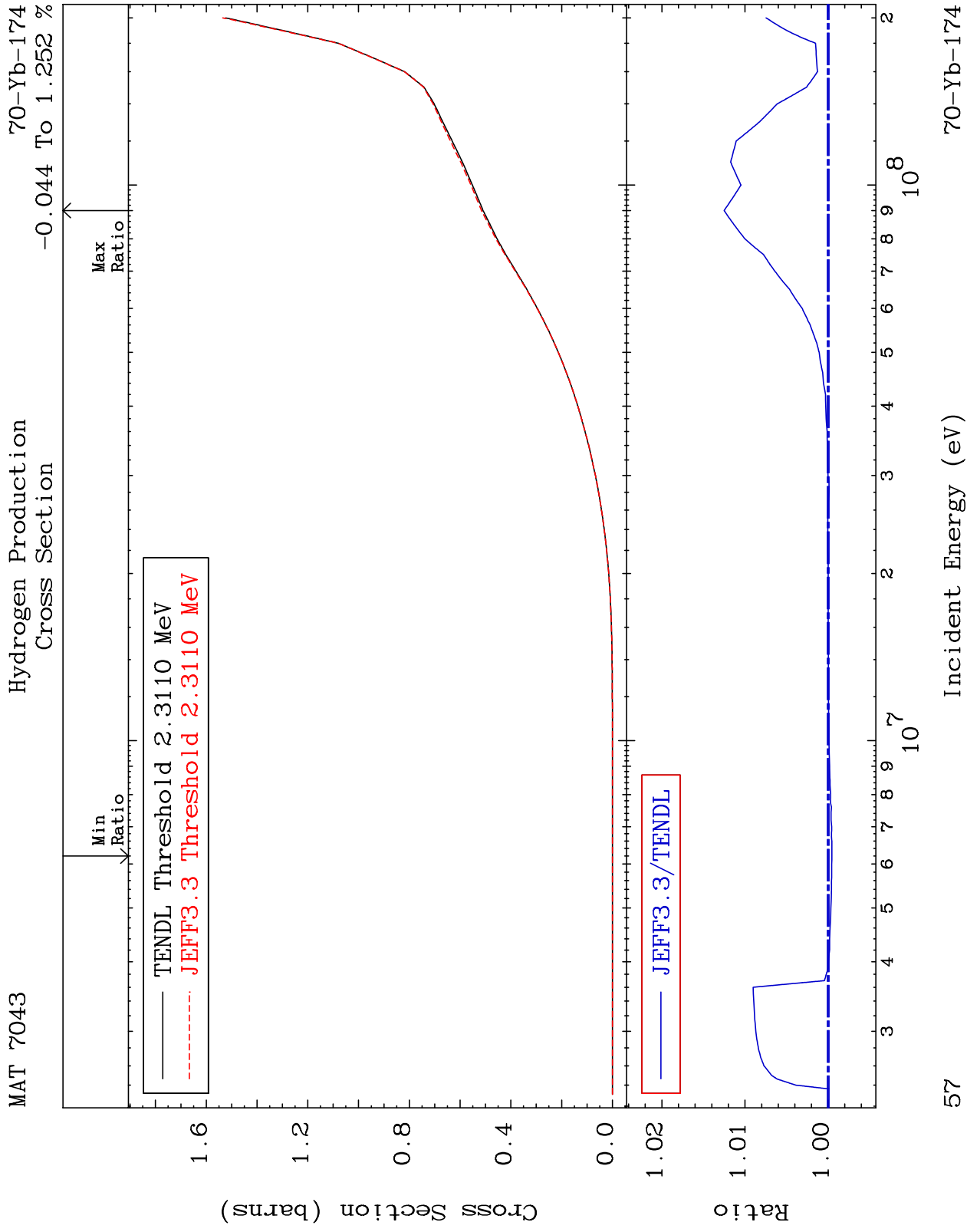
19

20

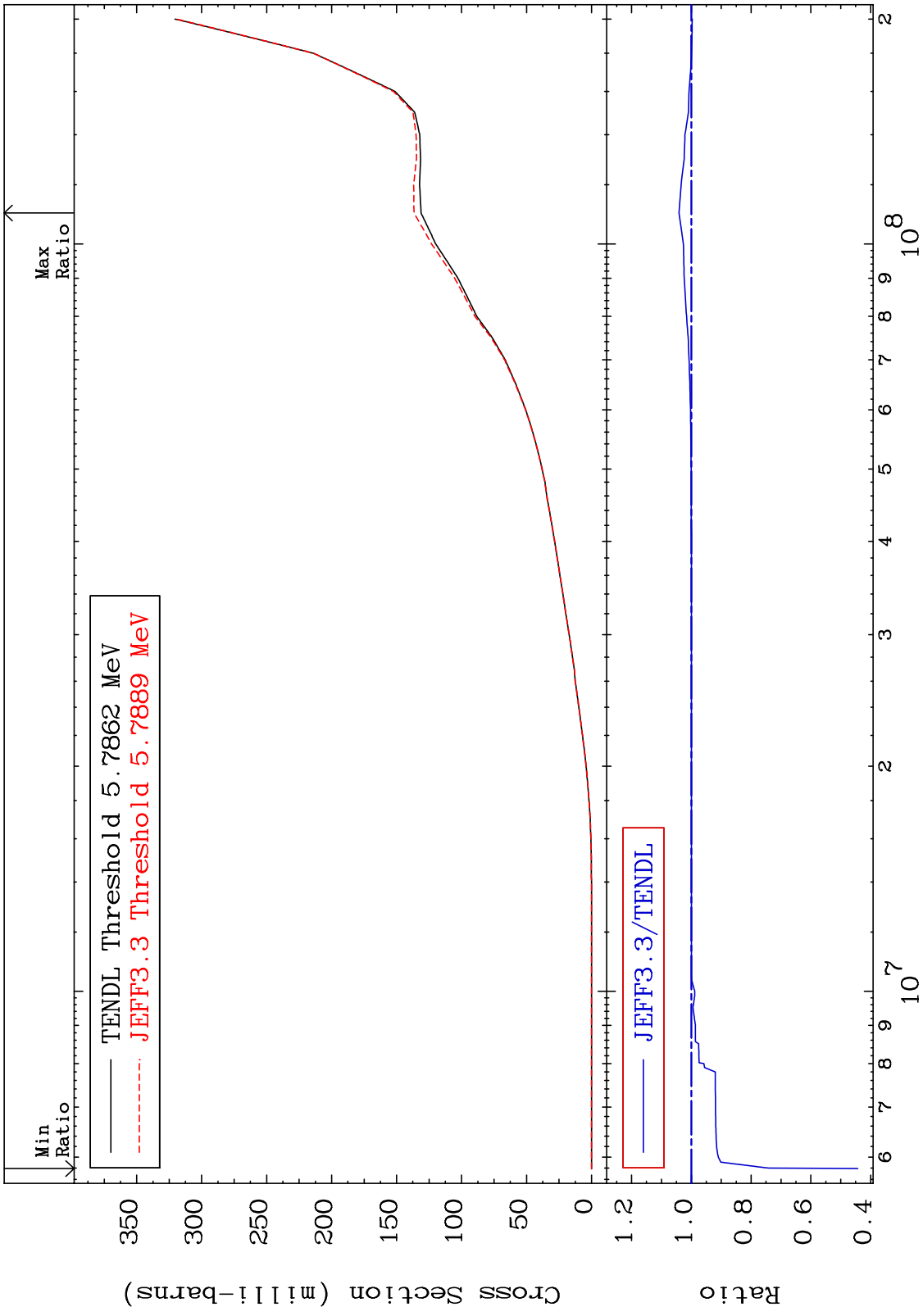
56

Incident Energy (eV)

70-Yb-174

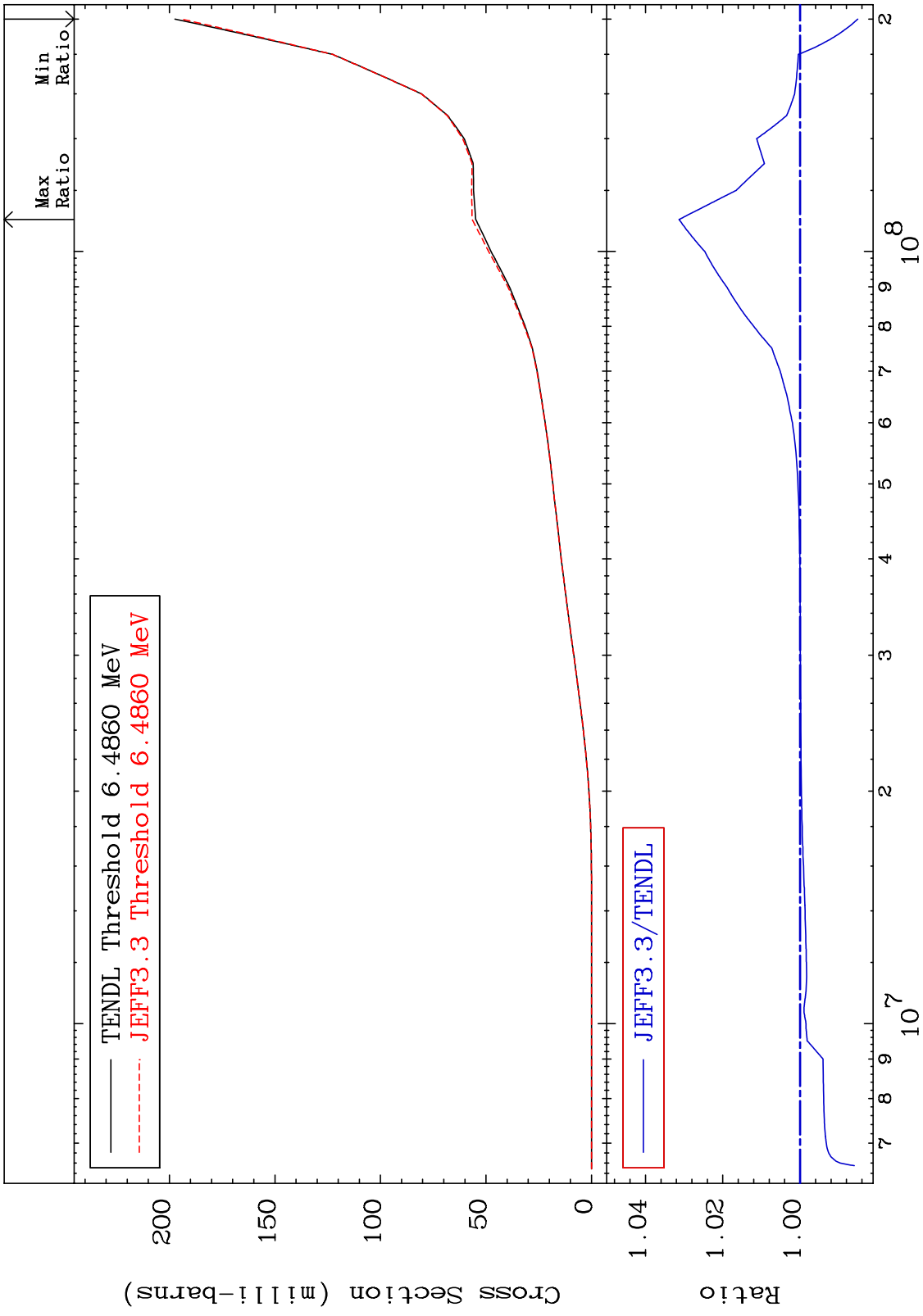


MAT 7043 Deuterium Production Cross Section 70-Yb-174
 -55.71 To 4.111 %



Incident Energy (eV) 70-Yb-174

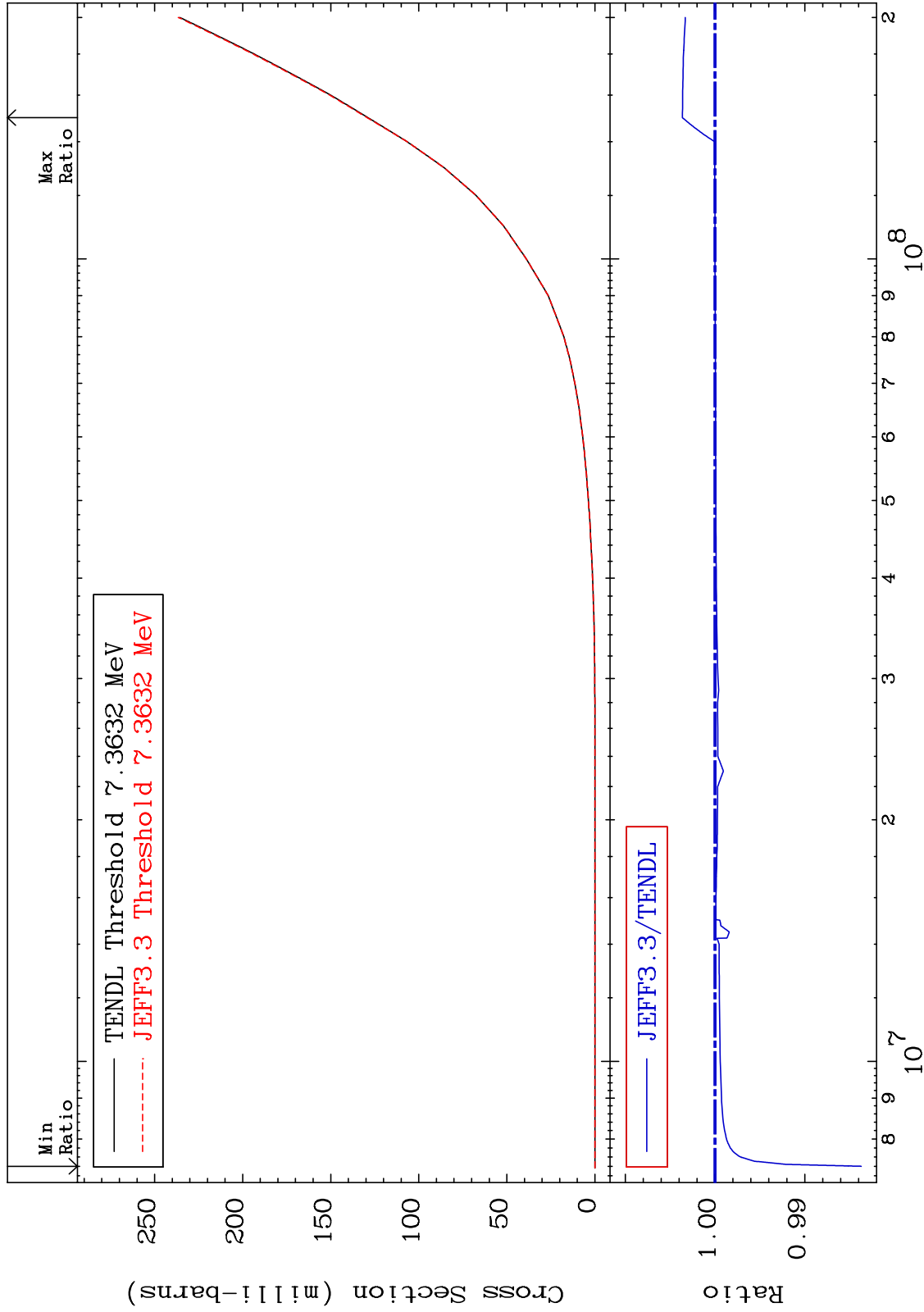
MAT 7043 Tritium Production Cross Section 70-Yb-174
 -1.494 To 3.132 %



MAT 7043

He-3 Production
Cross Section

70-Yb-174
-1.630 To 0.363 %



60

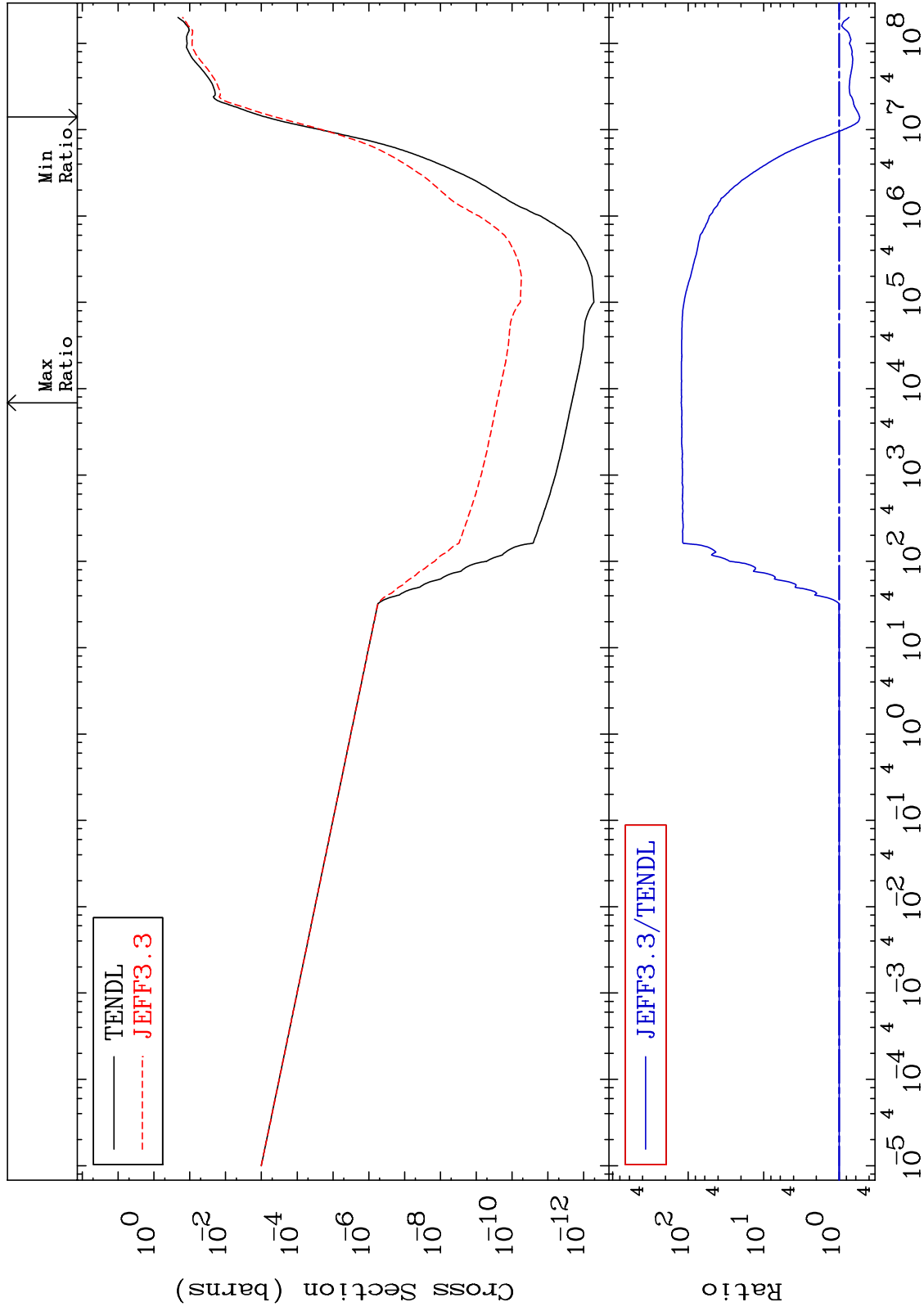
Incident Energy (eV)

70-Yb-174

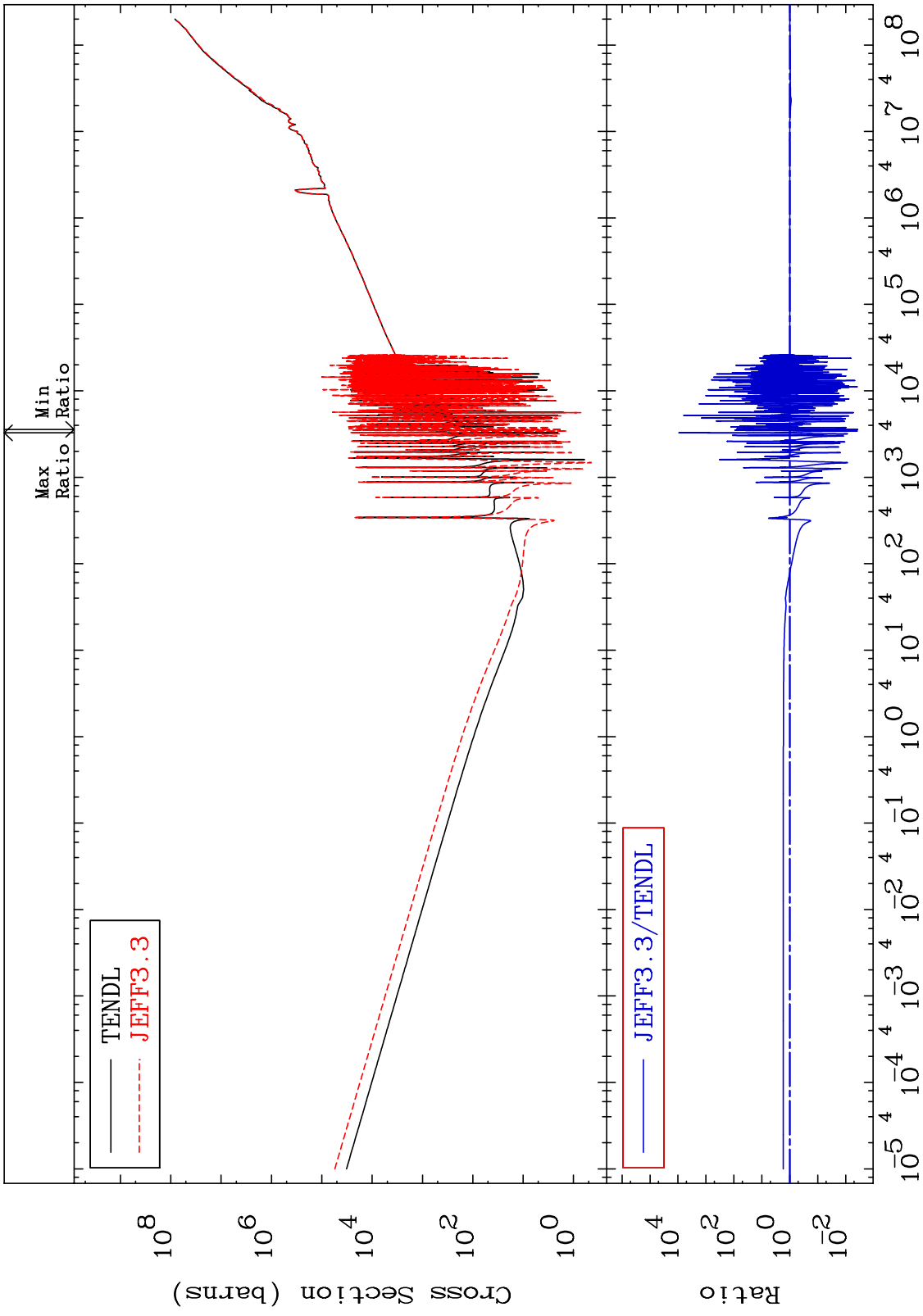
MAT 7043

He-4 Production
Cross Section

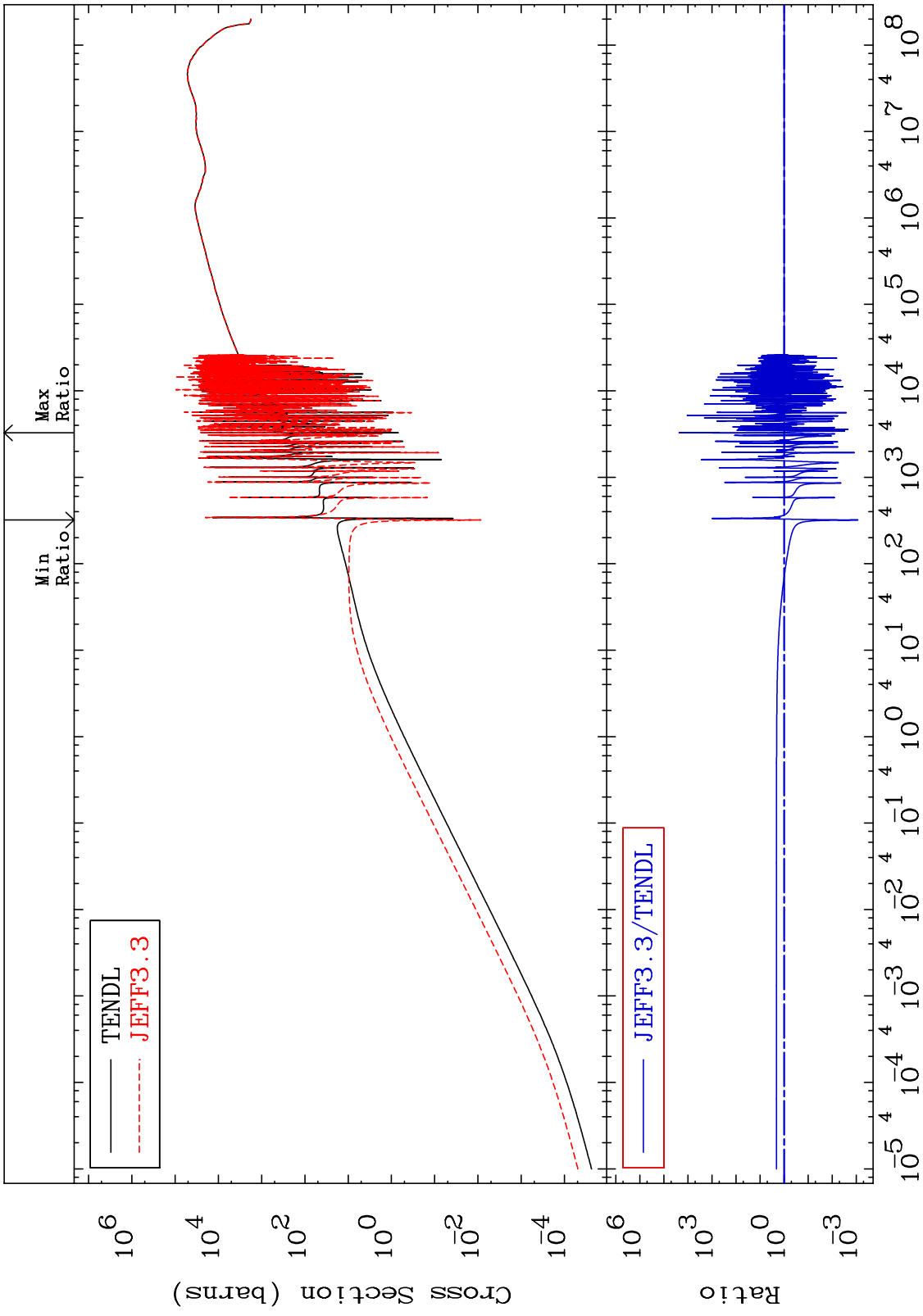
70-Yb-174
-46.73 To 9999. %



MAT 7043 Kerma total (eV-barns) 70-Yb-174
Cross Section -99.63 To 9999. %

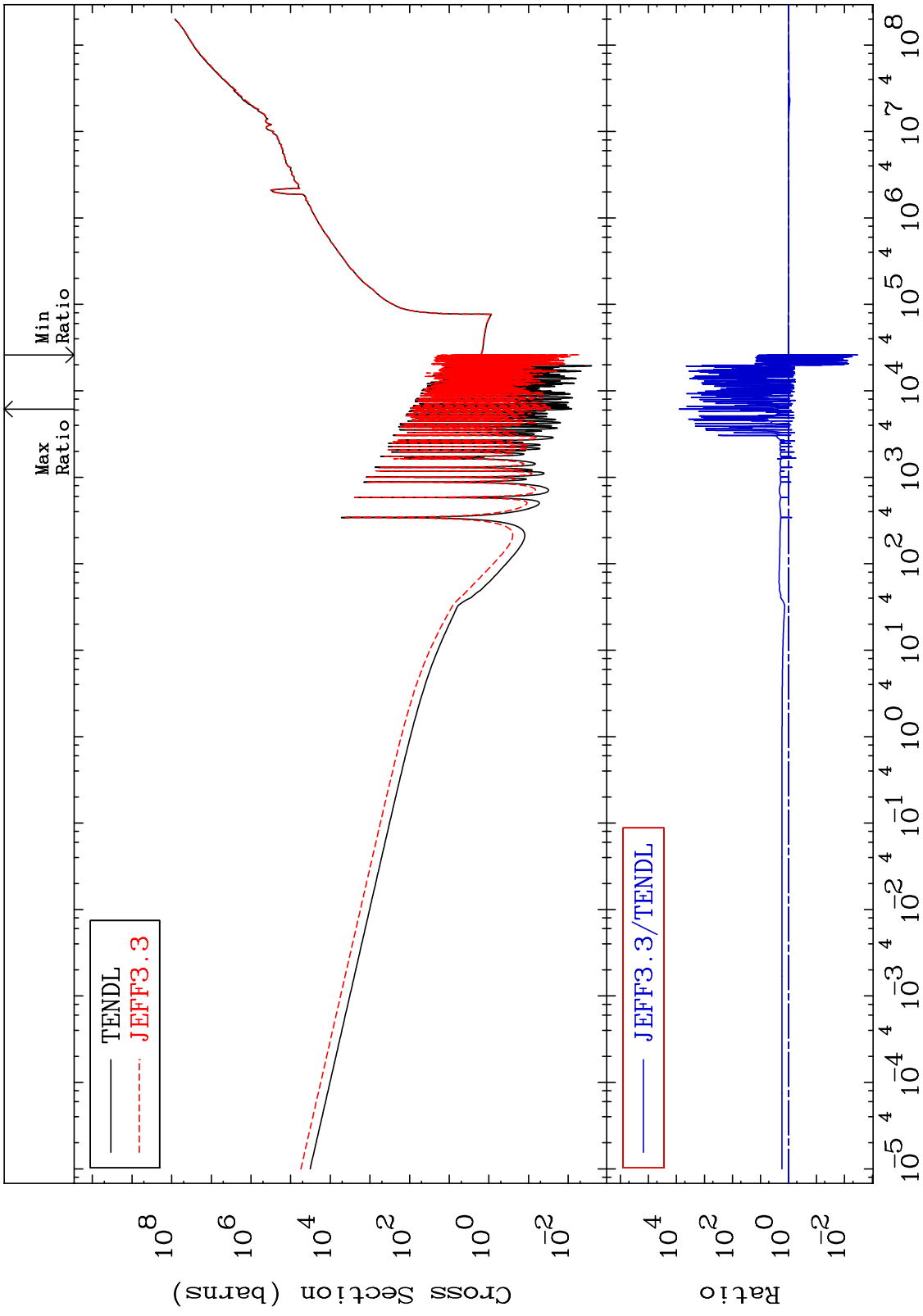


MAT 7043
Kerma elastic Cross Section
70-Yb-174
-99.91 To 9999. %



63
Incident Energy (eV)
70-Yb-174

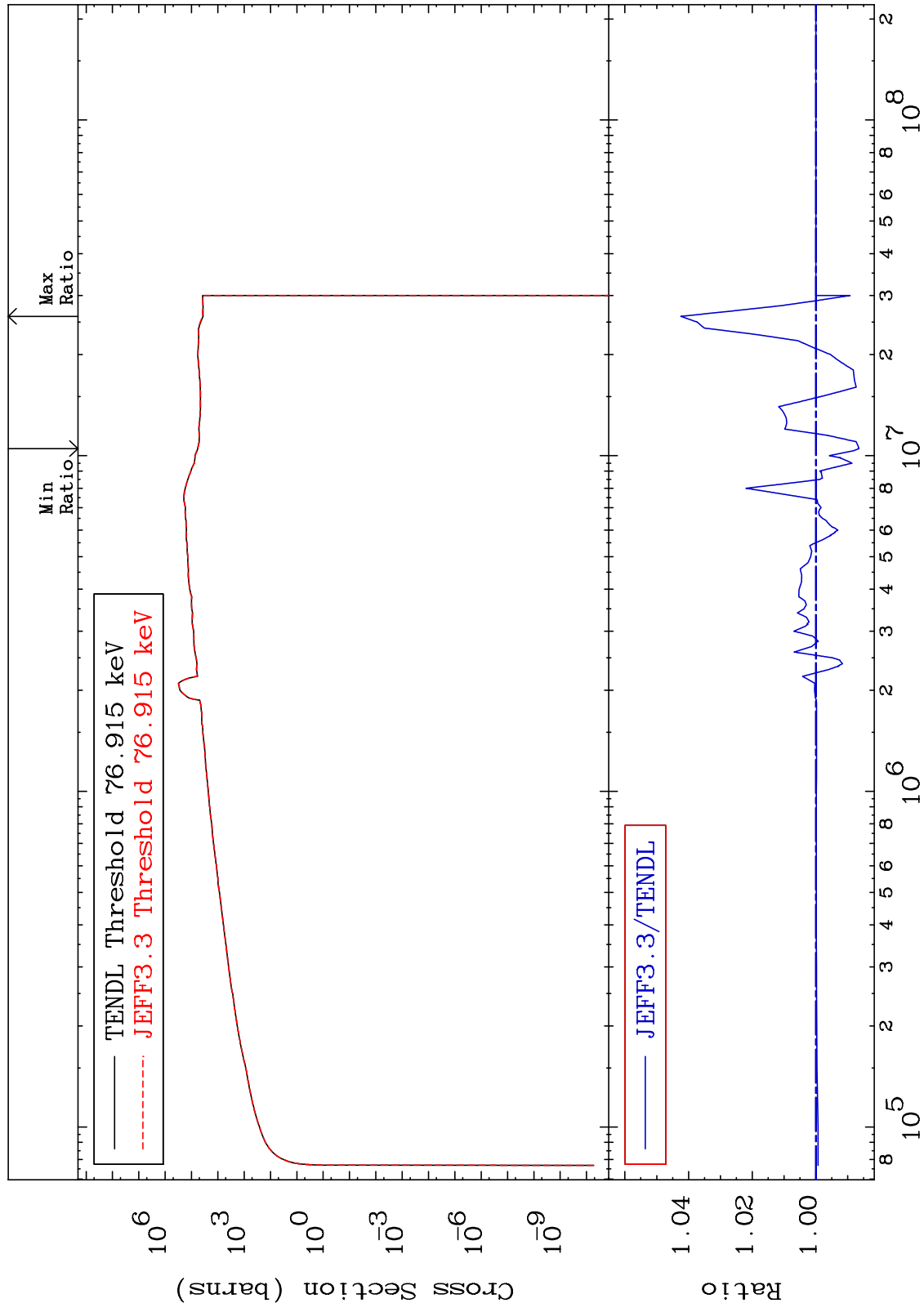
MAT 7043 Kerma non-elastic (all but mt2) 70-Yb-174
 Cross Section -99.67 To 9999. %



MAT 7043

Kerma inelastic (mt51-91)
Cross Section

70-Yb-174
-1.356 To 4.242 %



65

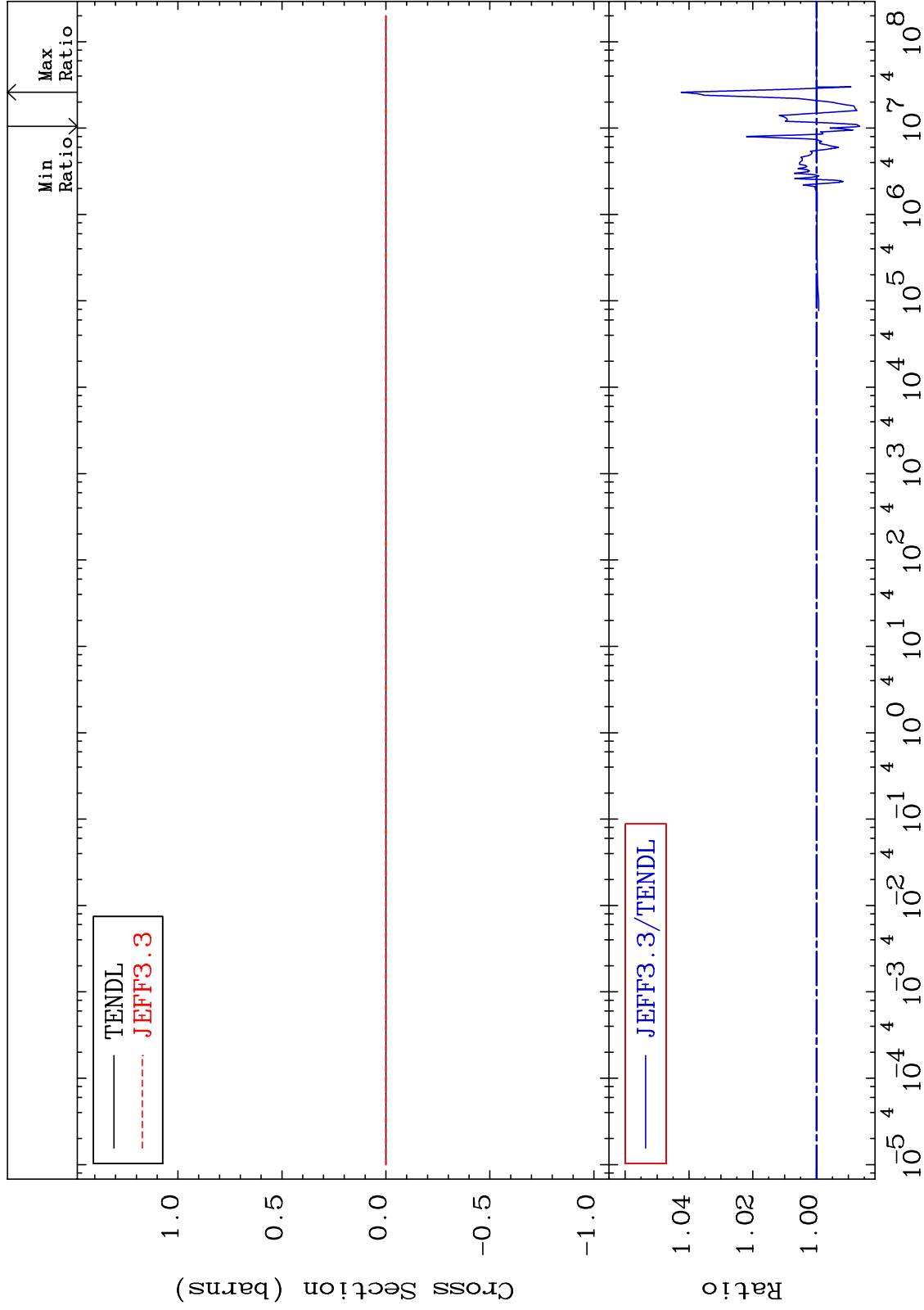
Incident Energy (eV)

70-Yb-174

MAT 7043

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

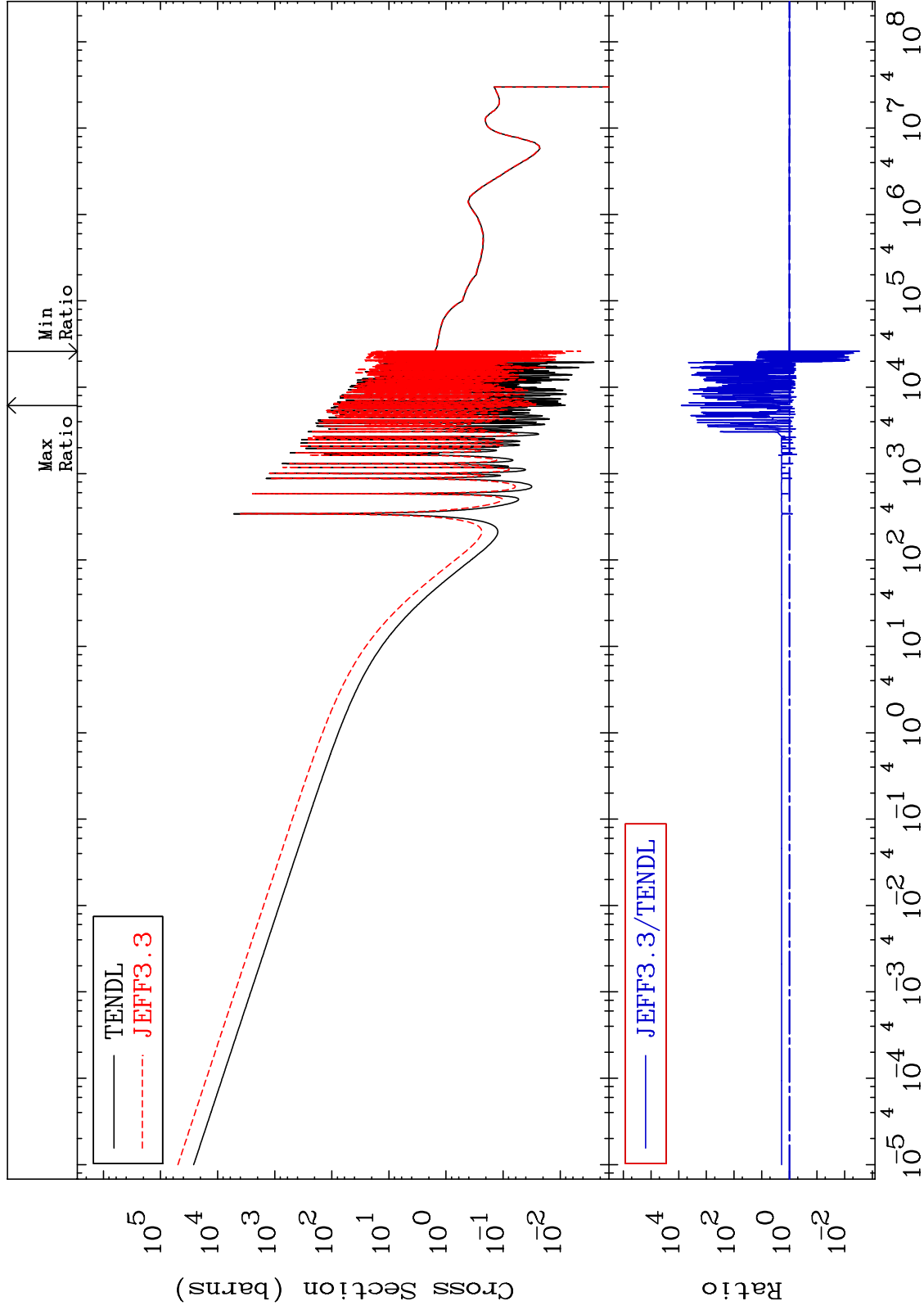
70-Yb-174
-1.356 To 4.242 %



MAT 7043

Kerma capture (mt102)
Cross Section

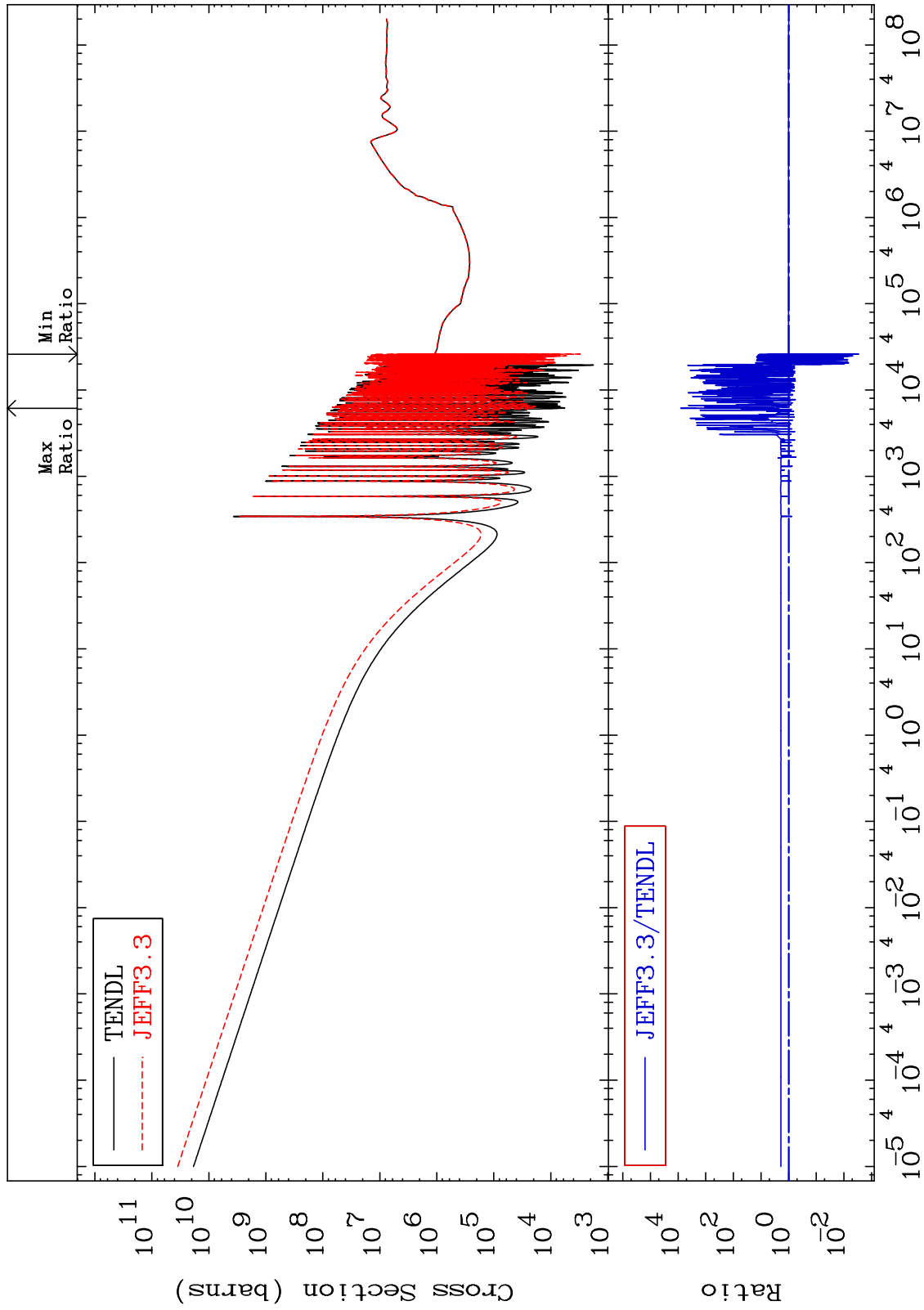
70-Yb-174
-99.72 To 9999. %



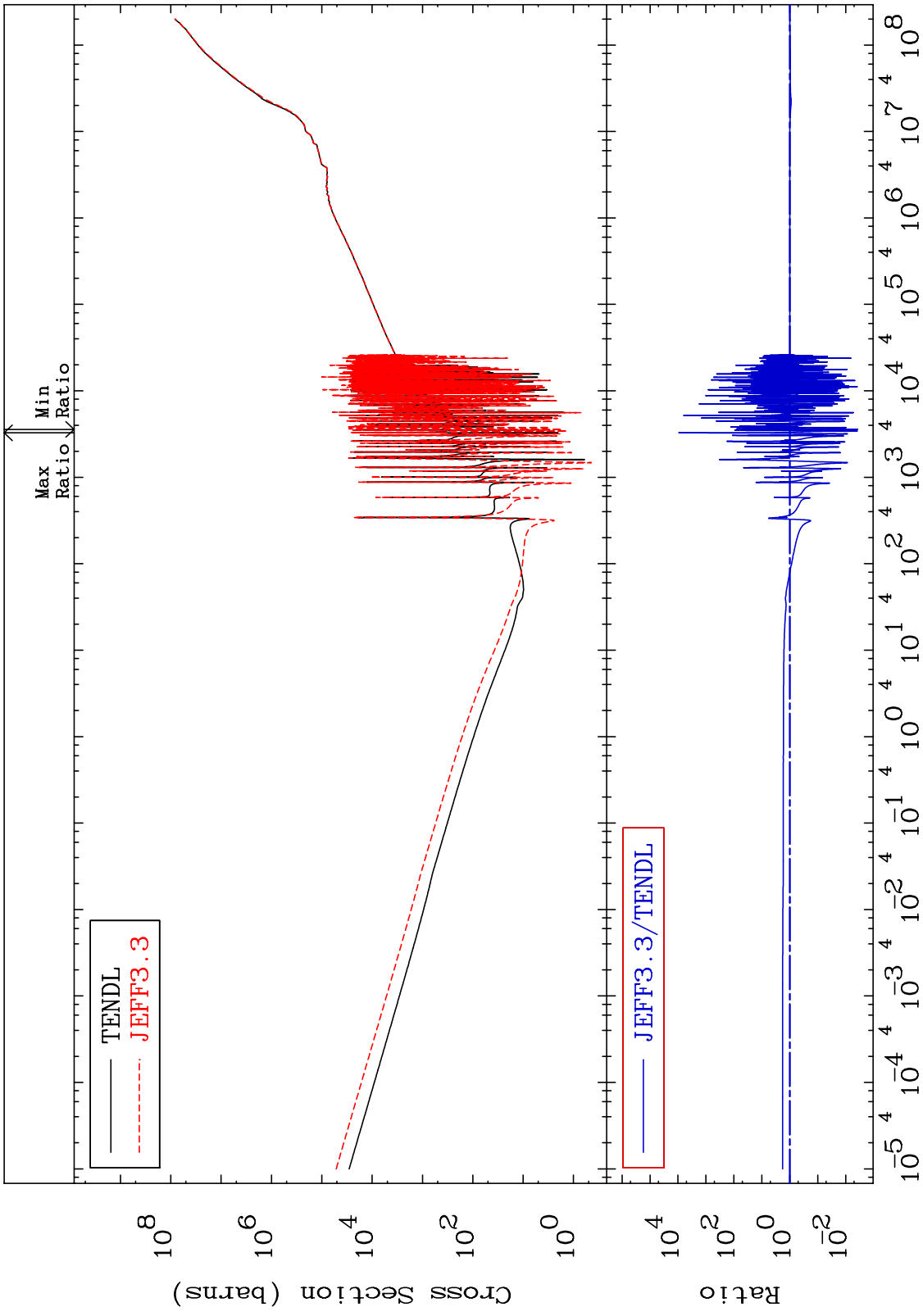
MAT 7043

Total photon (eV-barns)
Cross Section

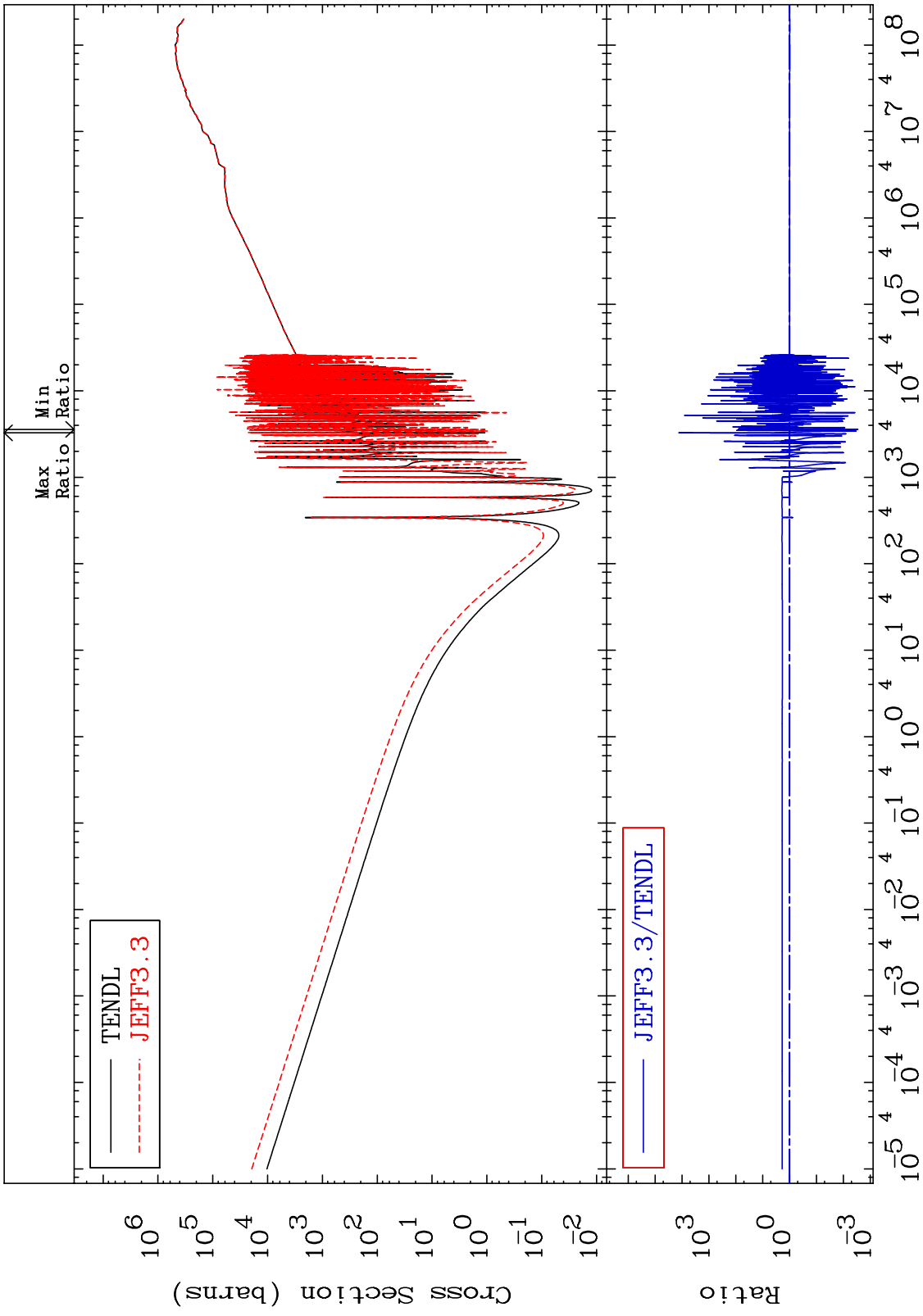
70-Yb-174
-99.72 To 9999. %



MAT 7043 Total kinematic kerma (high limit) 70-Yb-174
Cross Section -99.63 To 9999. %



MAT 7043 Dpa total (eV-barns) 70-Yb-174
Cross Section -99.71 To 9999. %

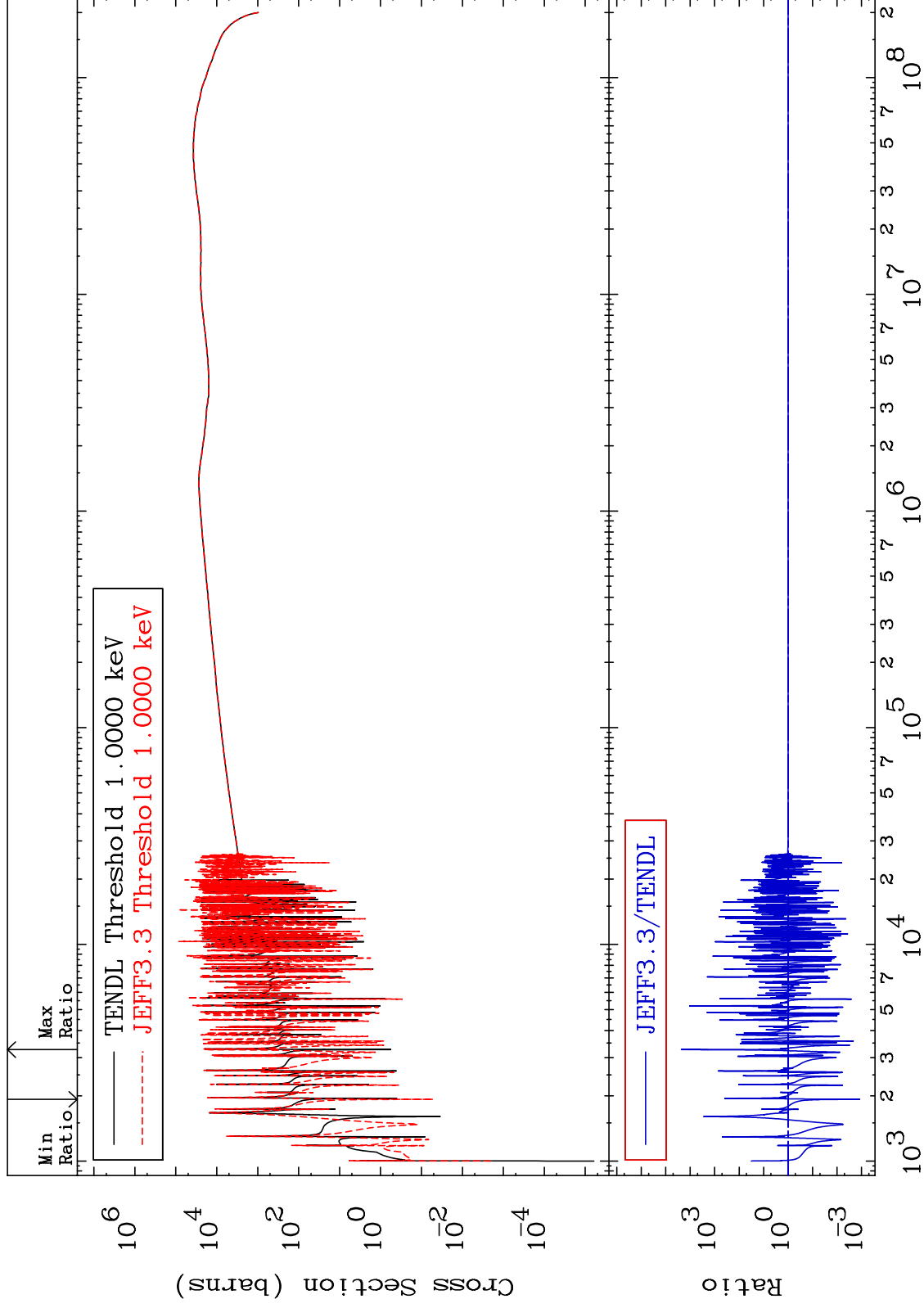


70 Incident Energy (eV) 70-Yb-174

MAT 7043

Dpa elastic (mt2)
Cross Section

70-Yb-174
-99.88 To 9999. %

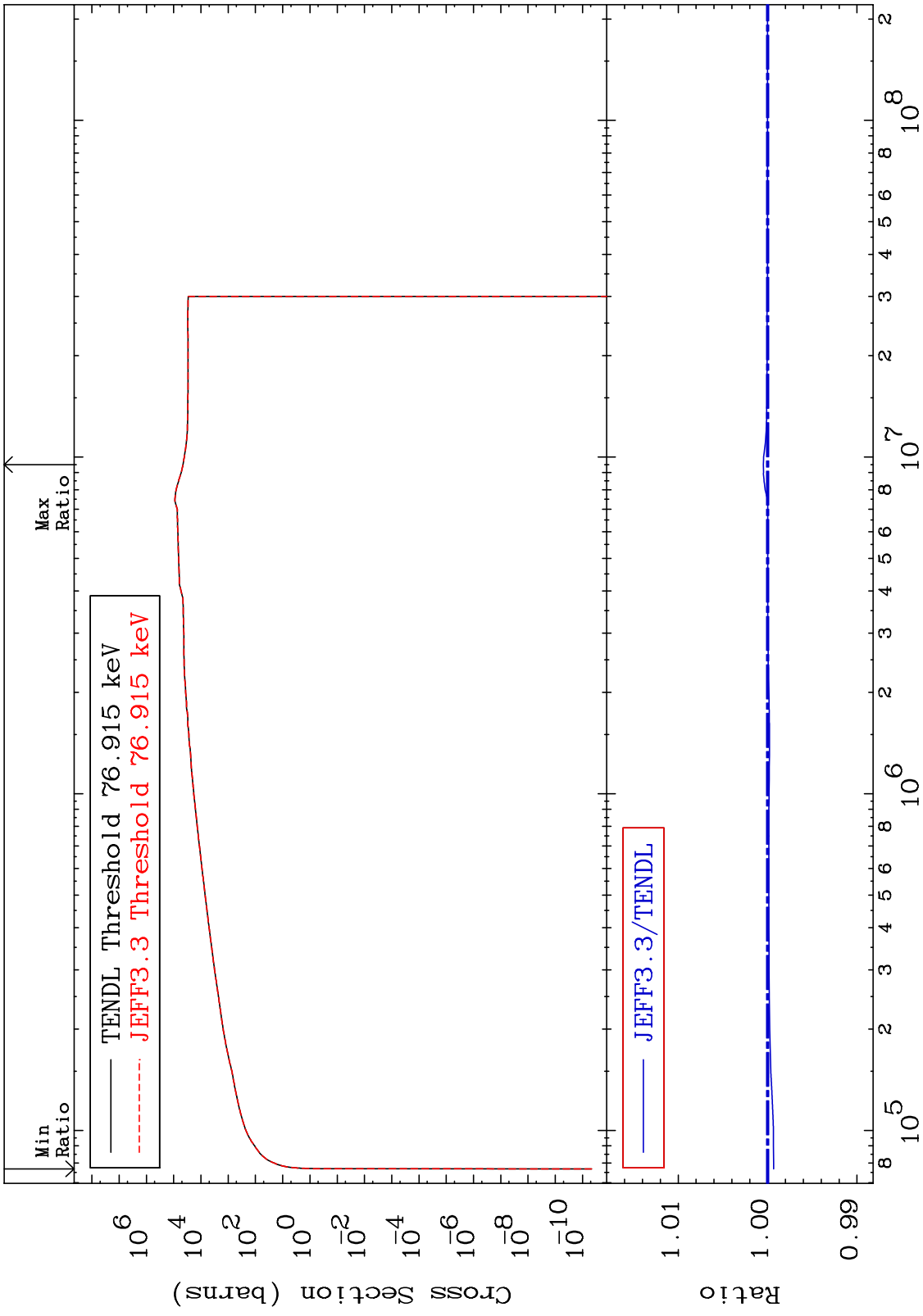


71

Incident Energy (eV)

70-Yb-174

MAT 7043 Dpa inelastic (mt51-91) 70-Yb-174
Cross Section -0.066 To 0.048 %

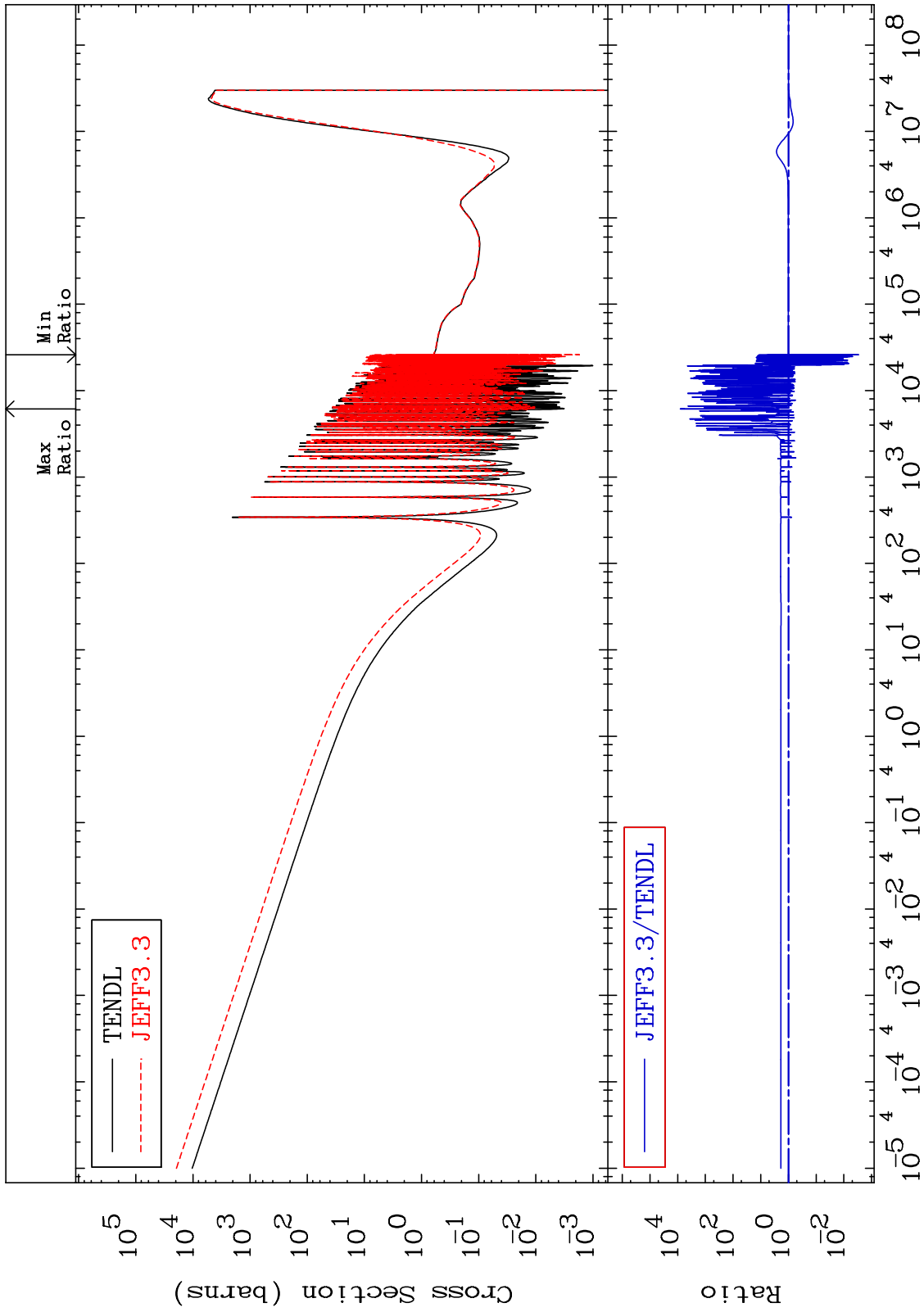


72 70-Yb-174

MAT 7043

Dpa disappearance (mt102 -120)
Cross Section

70-Yb-174
-99.71 To 9999. %



73

Incident Energy (eV)

70-Yb-174

MAT 7043

(n,p) α : 67-Ho-170g 70-Yb-174
Radionuclide Production Cross Section -16.81 To 9999. %

