

Program Complot
(Version 2018-1)

by

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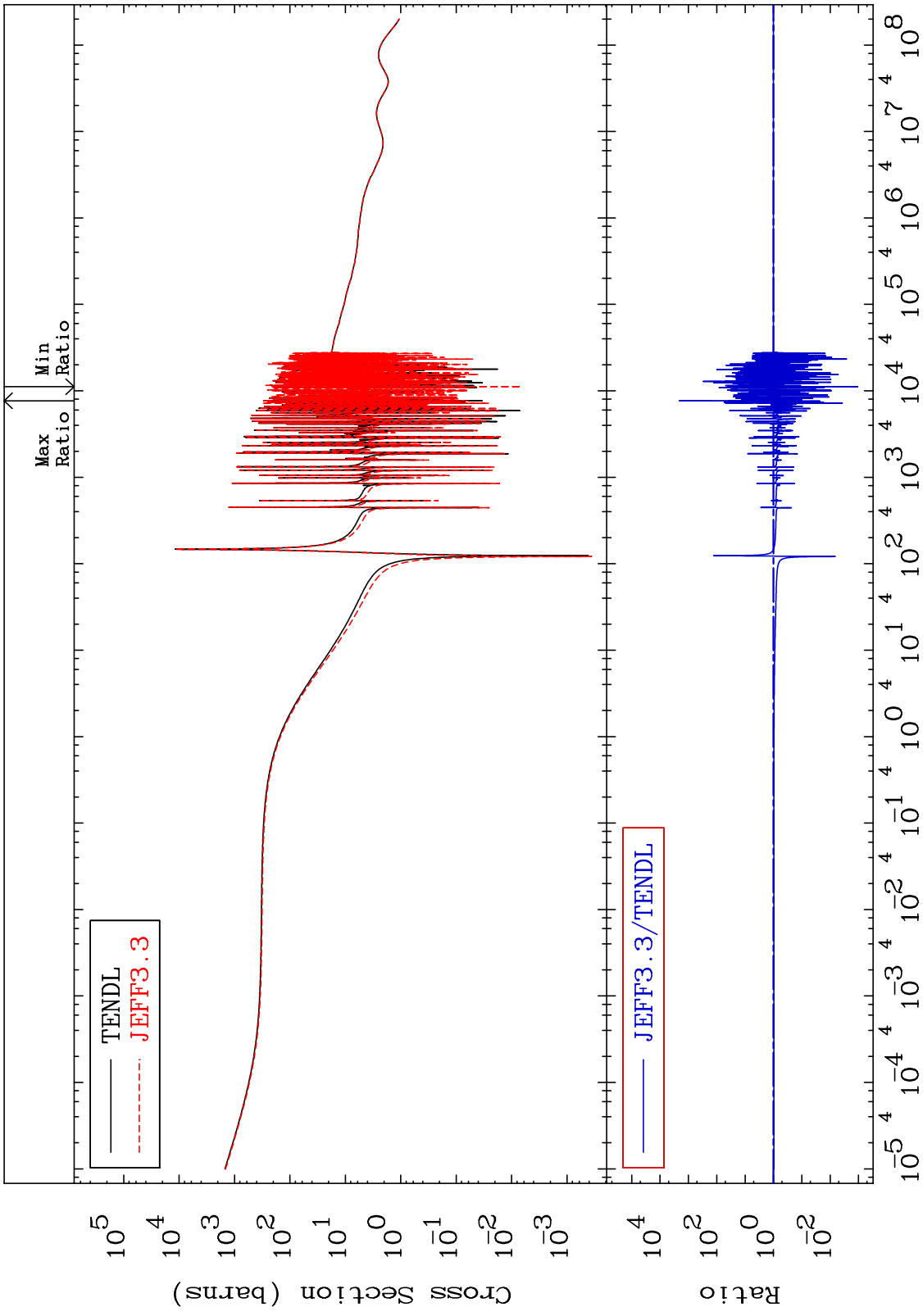
U.S.A.

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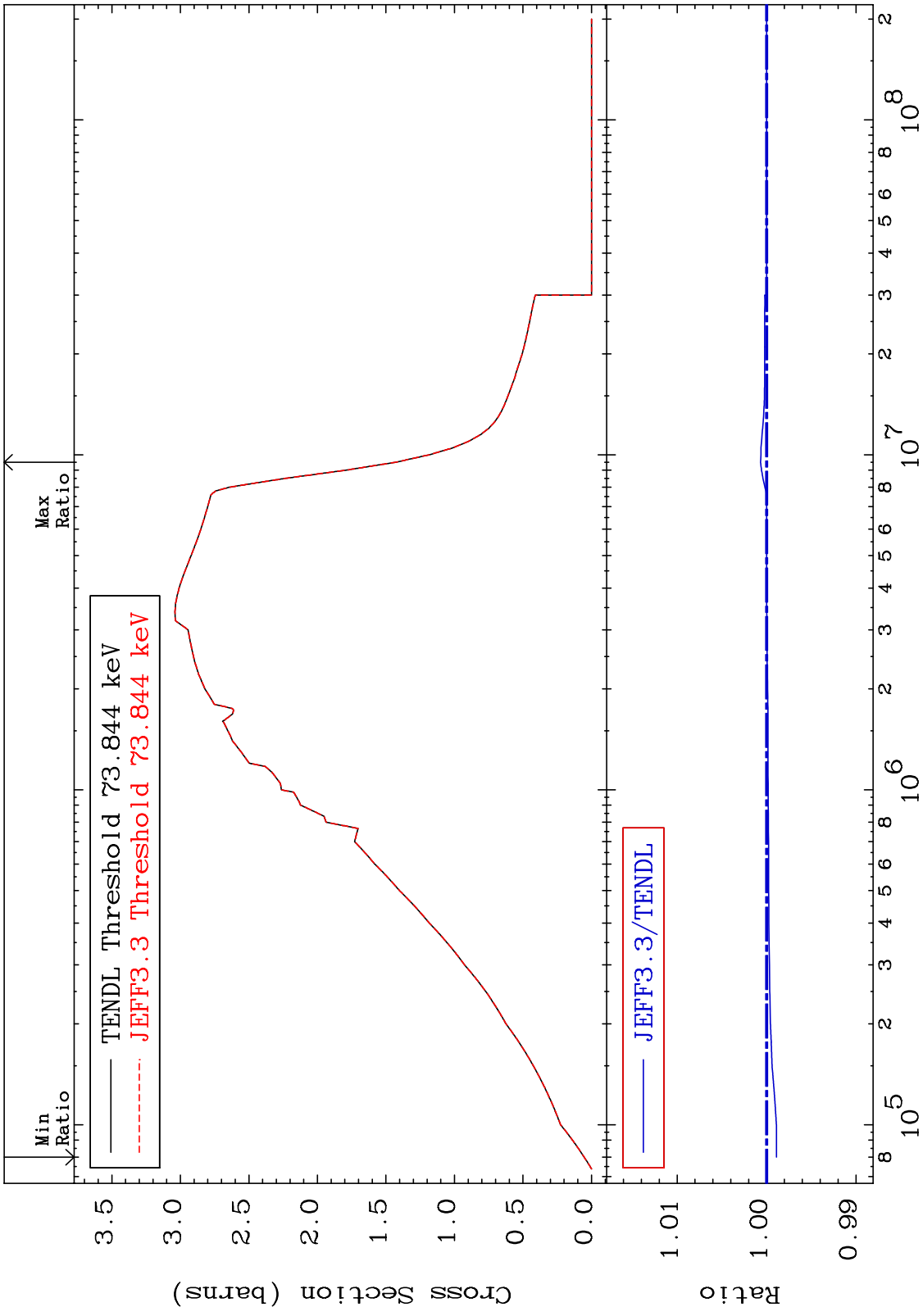
Press Mouse Button to Start

MAT 6649 Elastic Cross Section 66-Dy-164 -99.89 To 9999. %



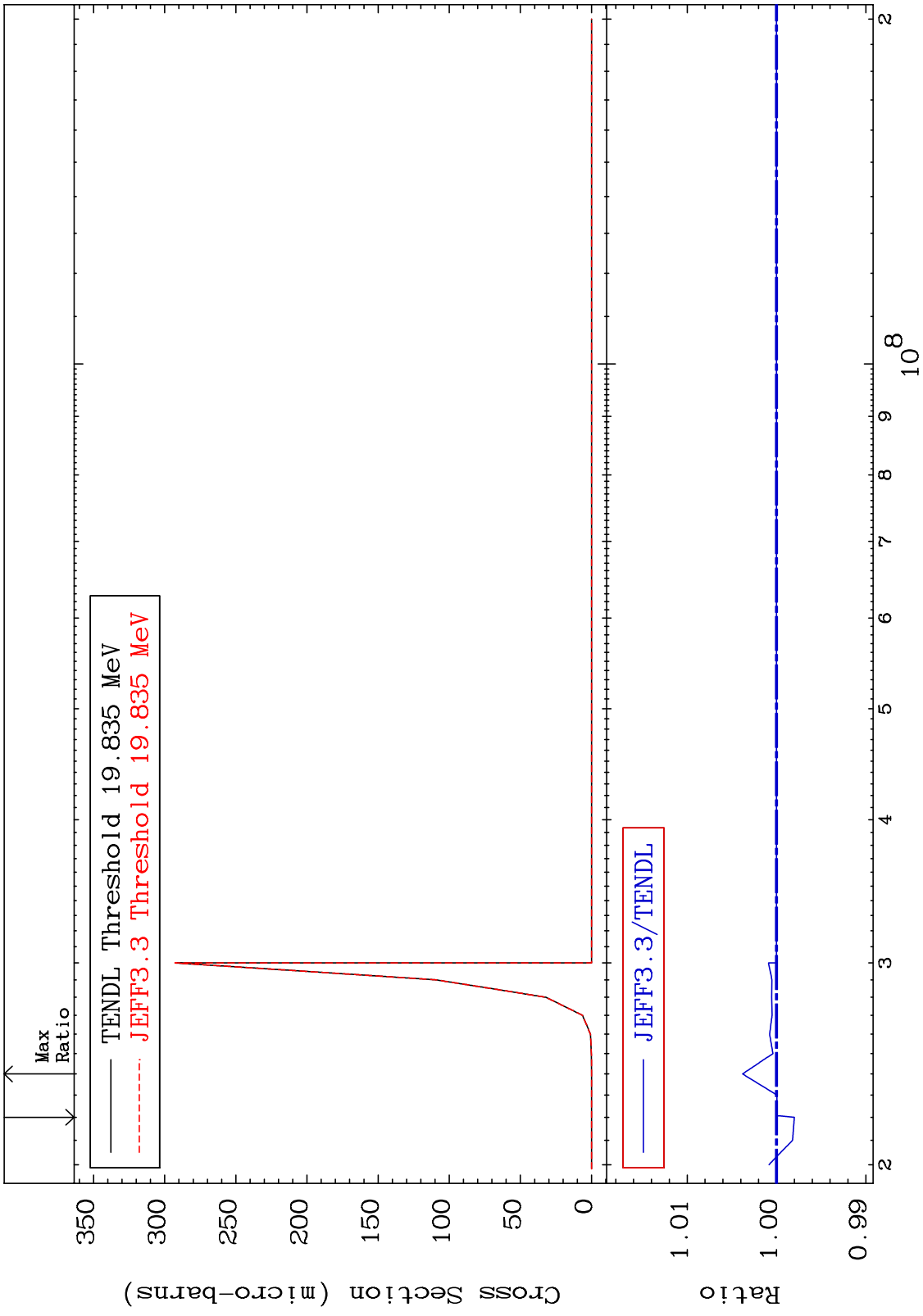
2 Incident Energy (eV) 66-Dy-164

MAT 6649 Inelastic Cross Section 66-Dy-164 -0.110 To 0.068 %

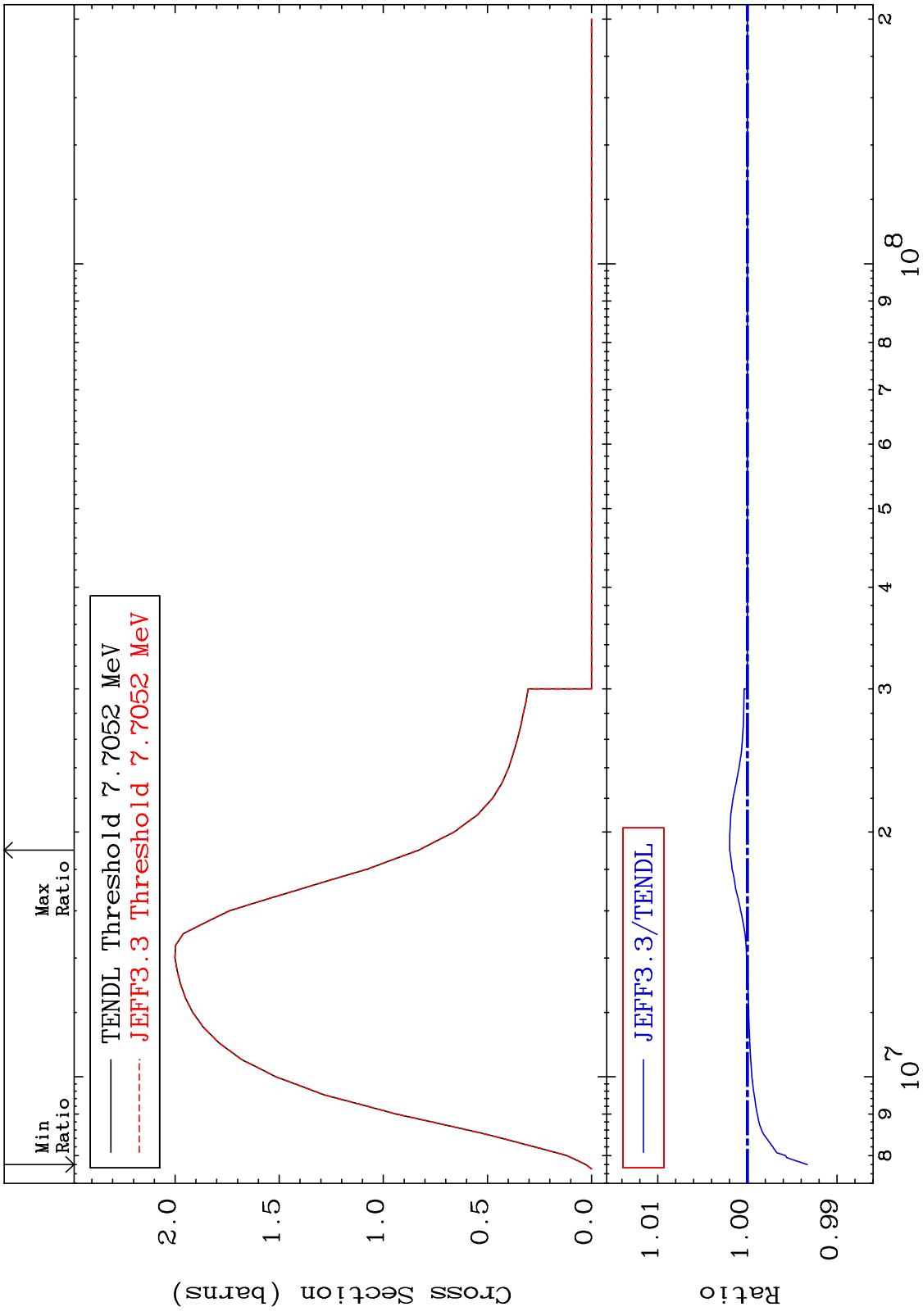


3 Incident Energy (eV) 66-Dy-164

MAT 6649 (n,2n) d 66-Dy-164
 Cross Section -0.200 To 0.380 %

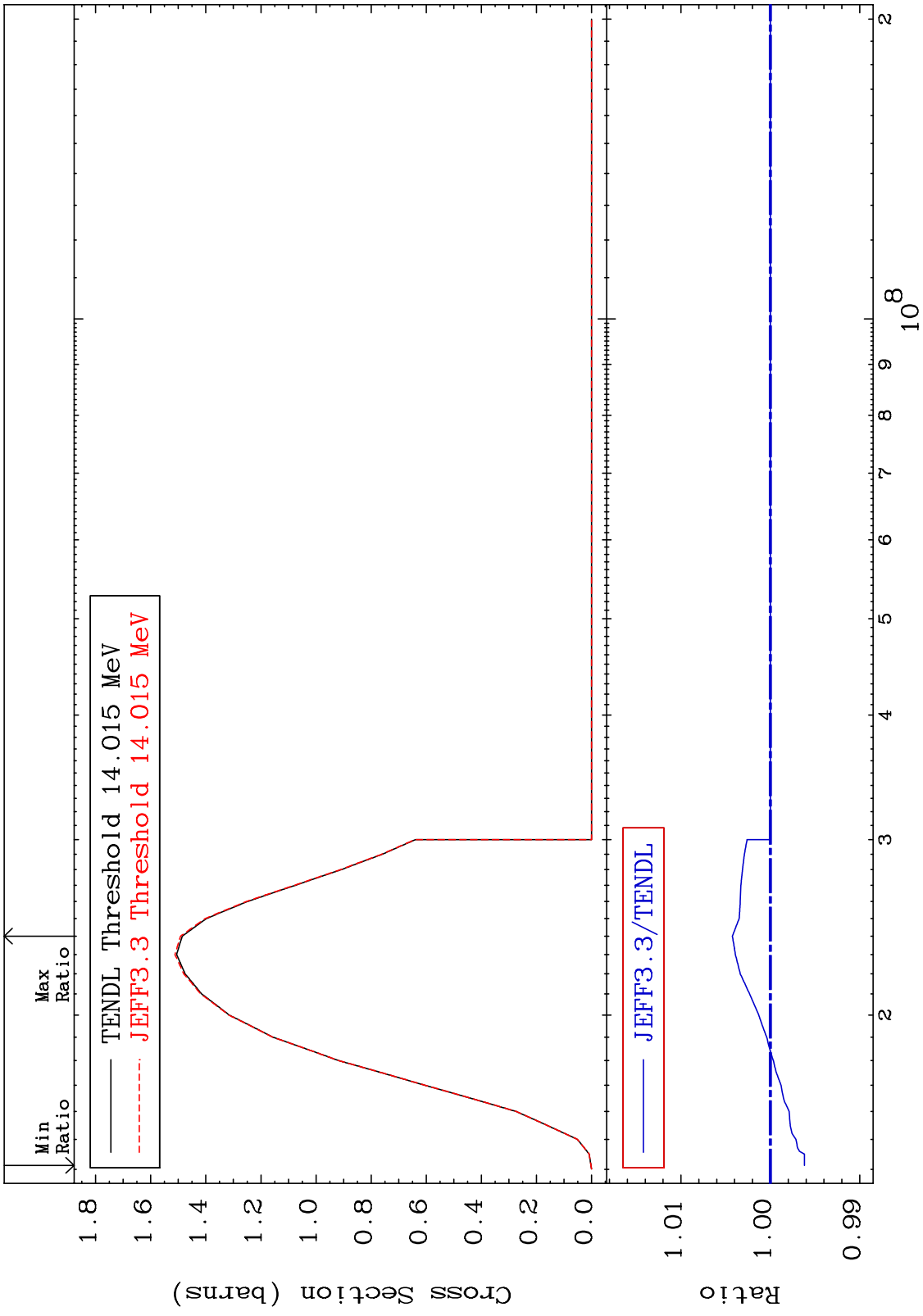


MAT 6649 $(n,2n)$ Cross Section 66-Dy-164 -0.667 To 0.199 %



5 66-Dy-164

MAT 6649 $(n, 3n)$ $^{66}\text{Dy}-164$
 Cross Section -0.382 To 0.425 %



MAT 6649

(n, n') α

66-Dy-164

-34.74 To 9999. %

Cross Section

Max Ratio

Min Ratio

TENDL Threshold 453.91 keV
JEFF3.3 Threshold 453.42 keV

Cross Section (milli-barns)

20

15

10

5

0

10^3

10^2

10^1

10^0

JEFF3.3/TENDL

5

6

7

8

10^6

10^7

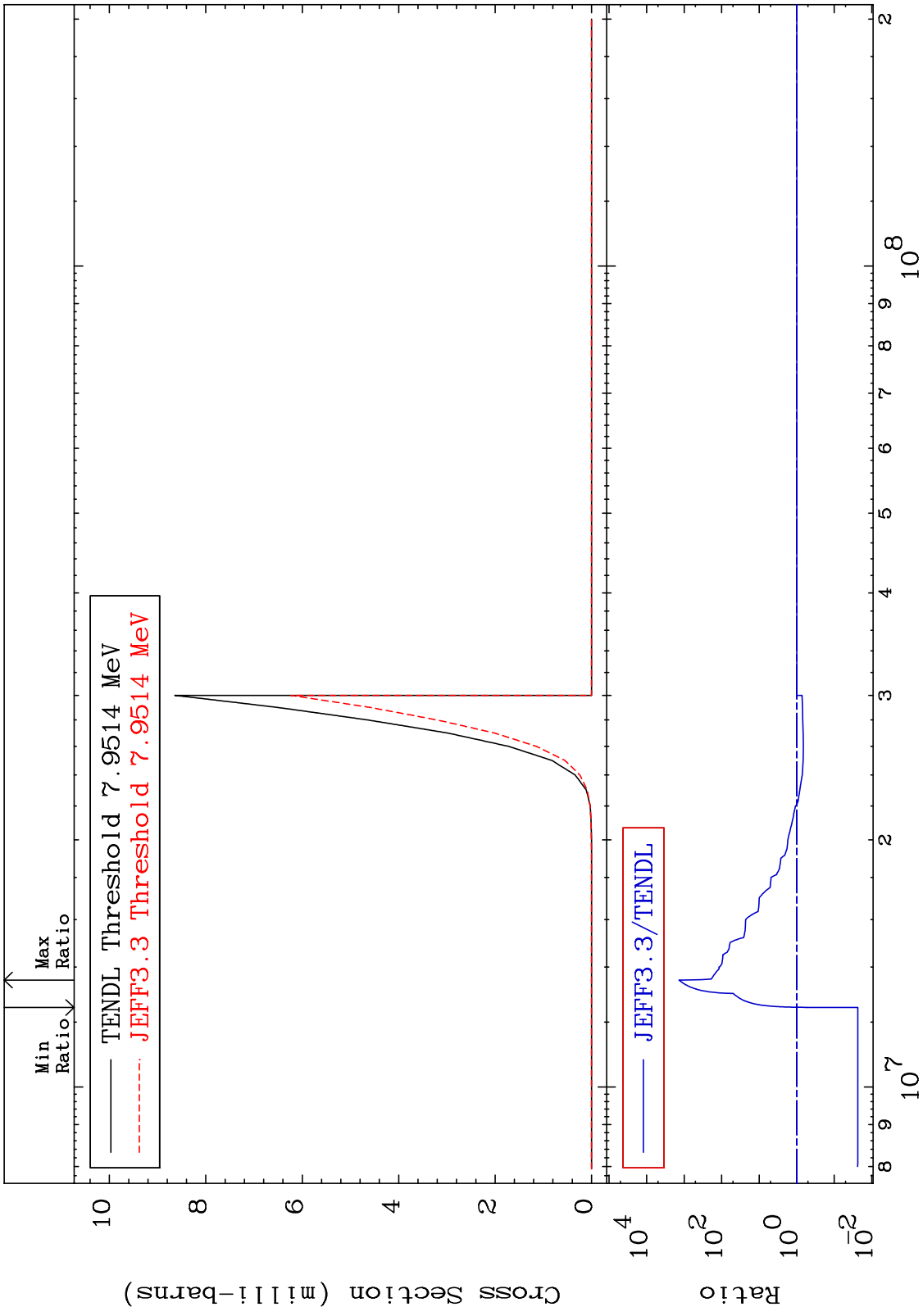
10^8

7

Incident Energy (eV)

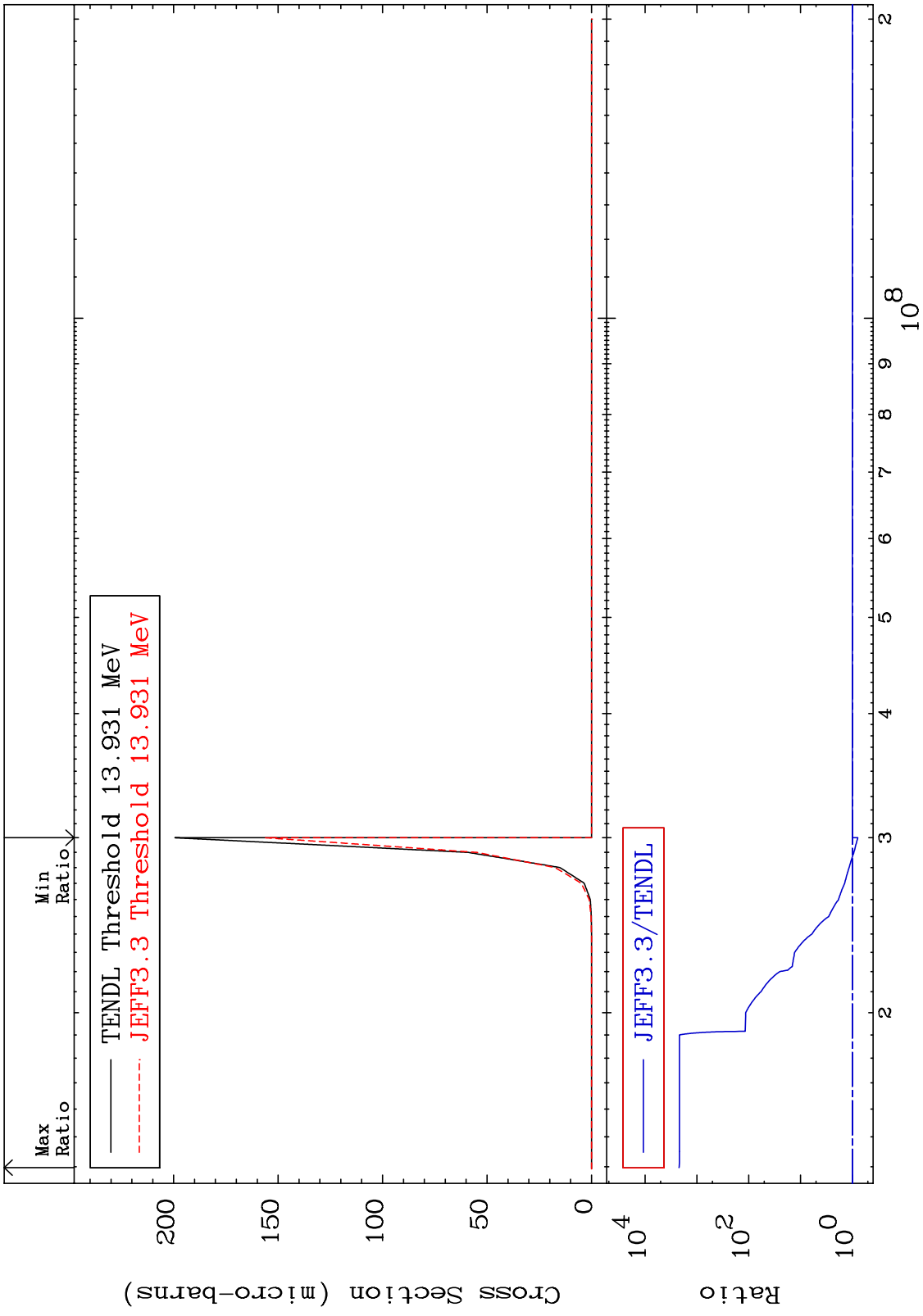
66-Dy-164

MAT 6649 $(n, 2n) \alpha$ 66-Dy-164
 Cross Section -97.65 To 9999. %

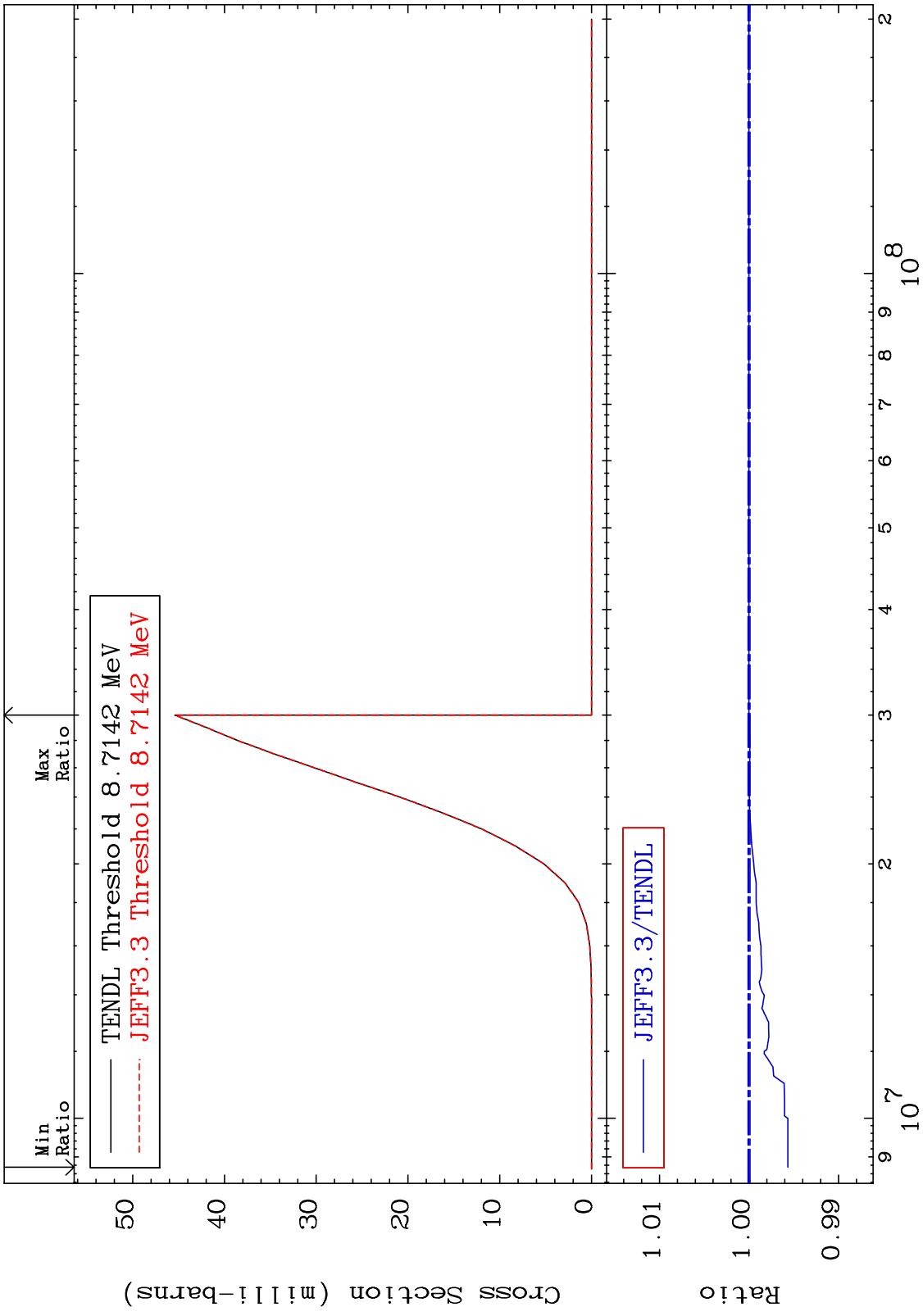


8 8 66-Dy-164

MAT 6649 $(n, 3n) \alpha$ 66-Dy-164
 Cross Section -21.70 To 9999. %

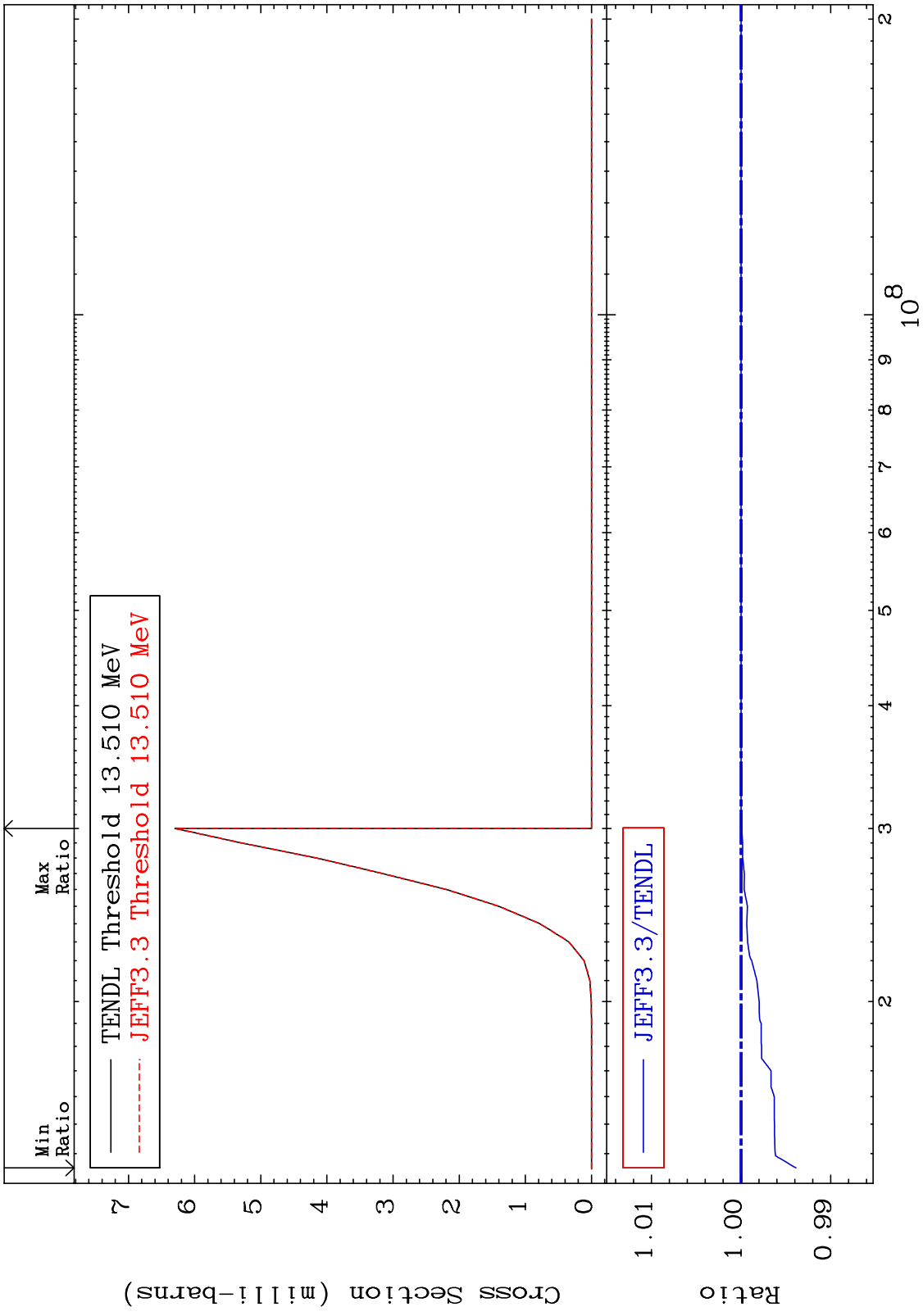


MAT 6649 (n, n') p $^{66}\text{Dy-164}$
 Cross Section -0.433 To 0.000 %

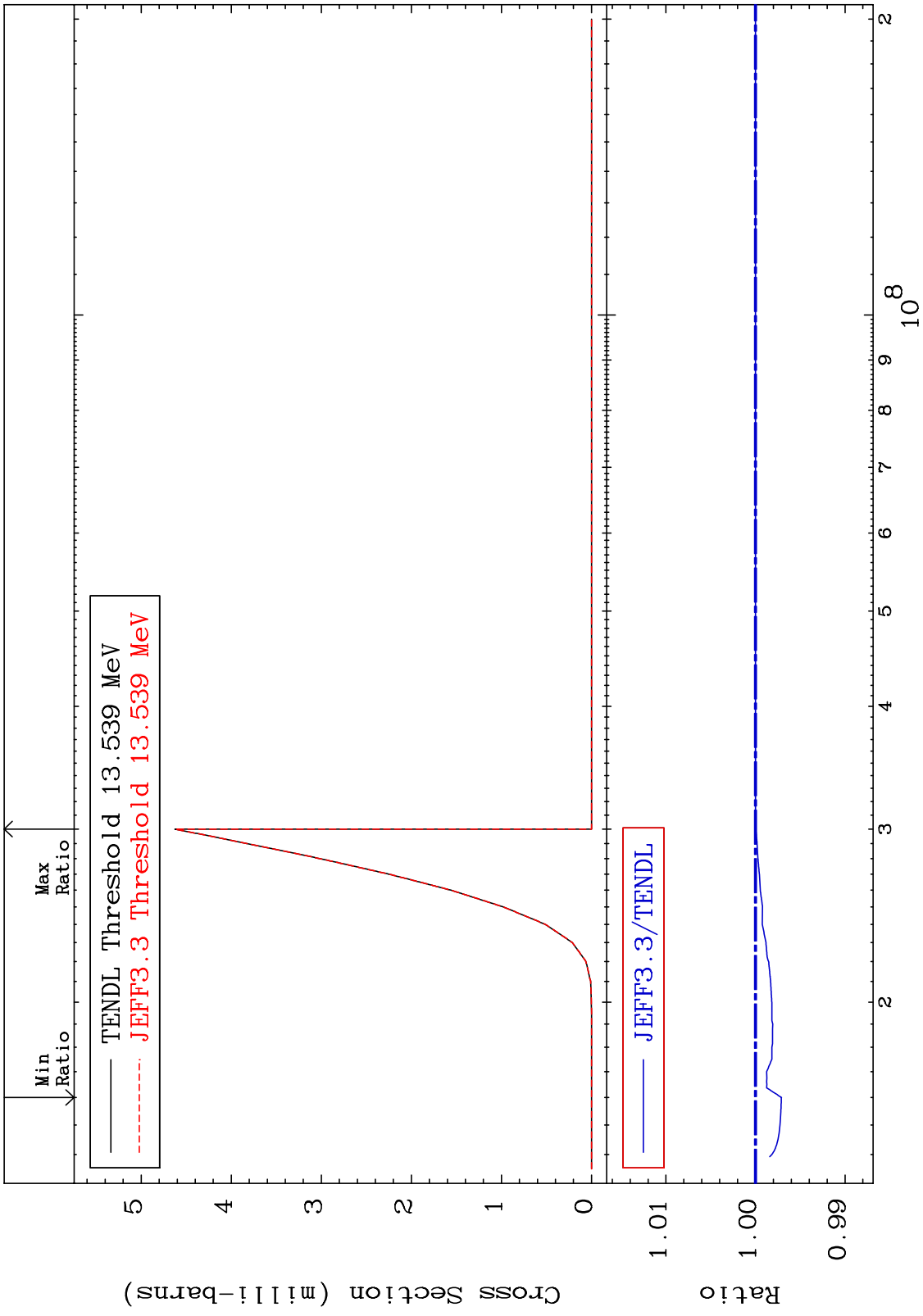


Incident Energy (eV) $^{66}\text{Dy-164}$

MAT 6649 $(n, n') d$ 66-Dy-164
 Cross Section -0.611 To 0.000 %



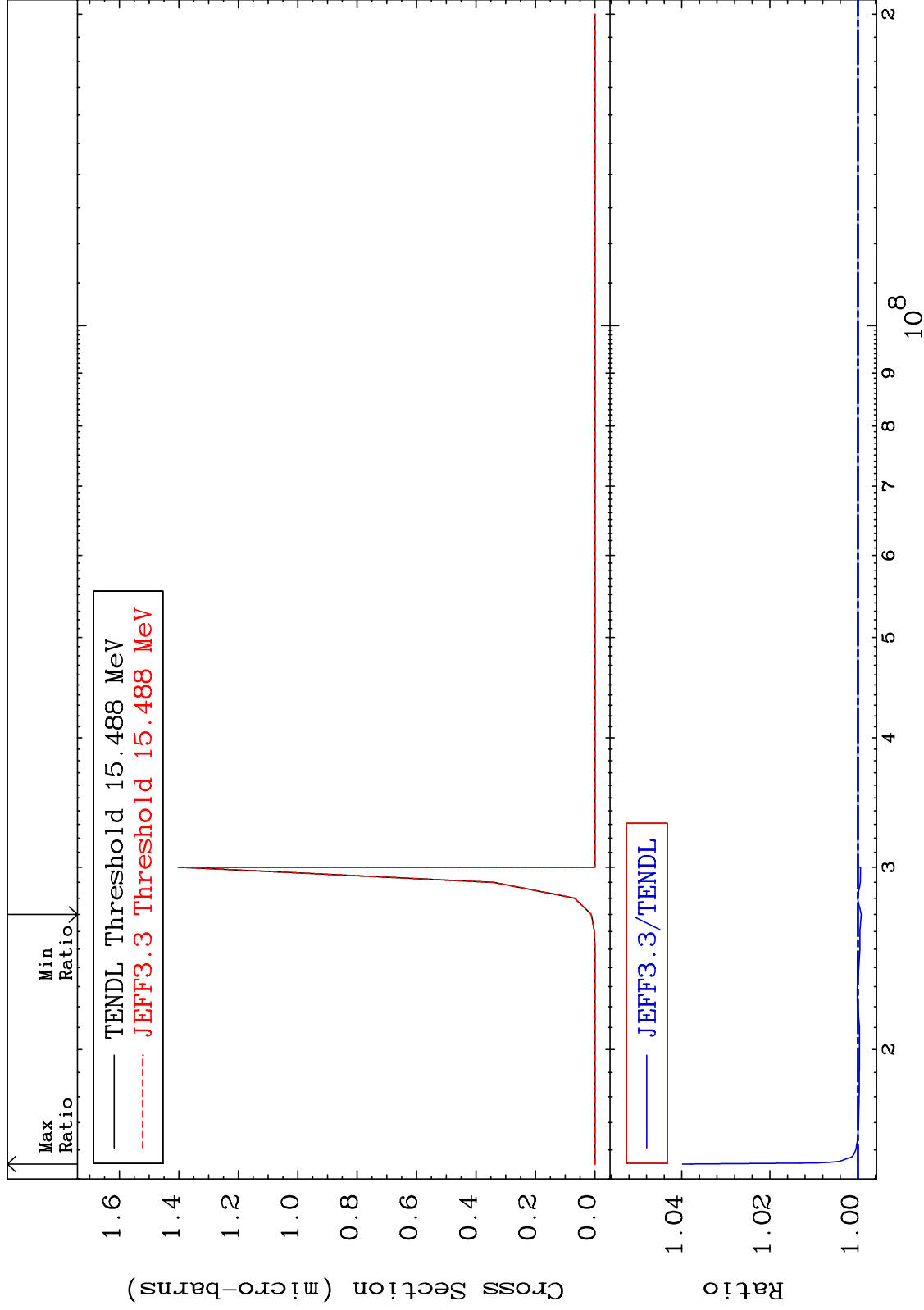
MAT 6649 (n, n') t $^{66}\text{Dy-164}$
 Cross Section -0.290 To 0.000 %



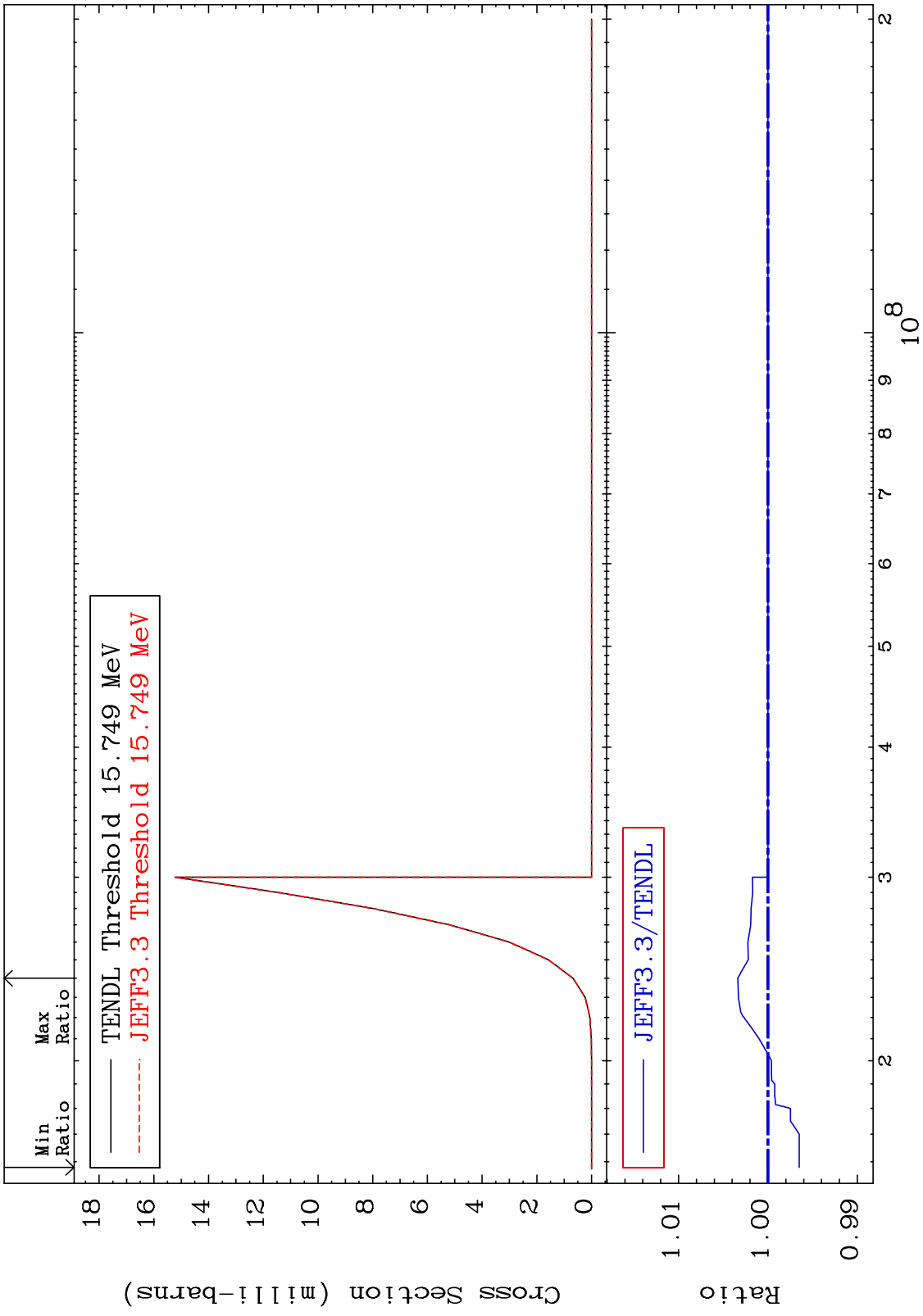
MAT 6649

(n, n') He-3
Cross Section

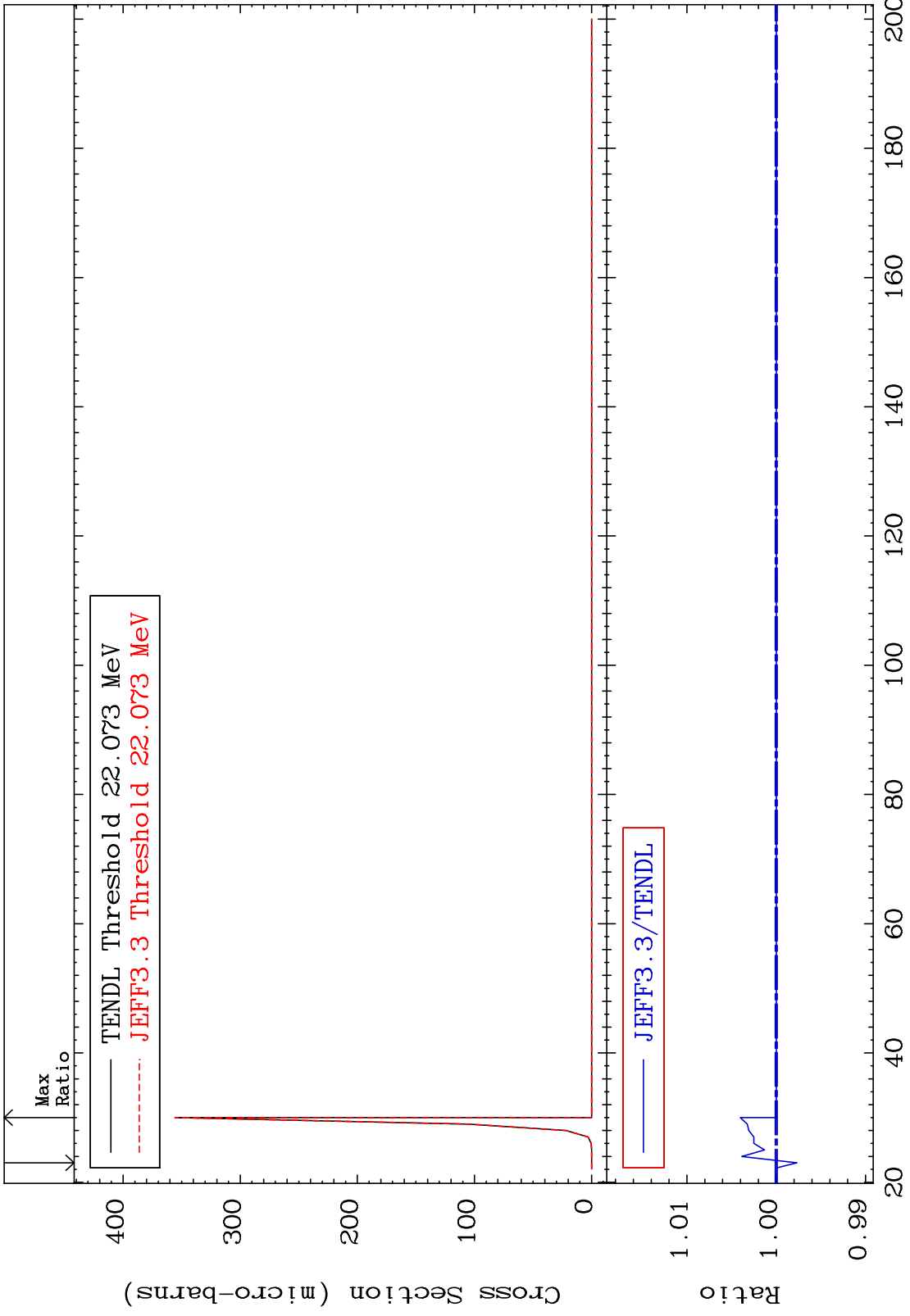
66-Dy-164
-0.077 To 3.985 %



MAT 6649 (n,2n) p 66-Dy-164
 Cross Section -0.350 To 0.338 %



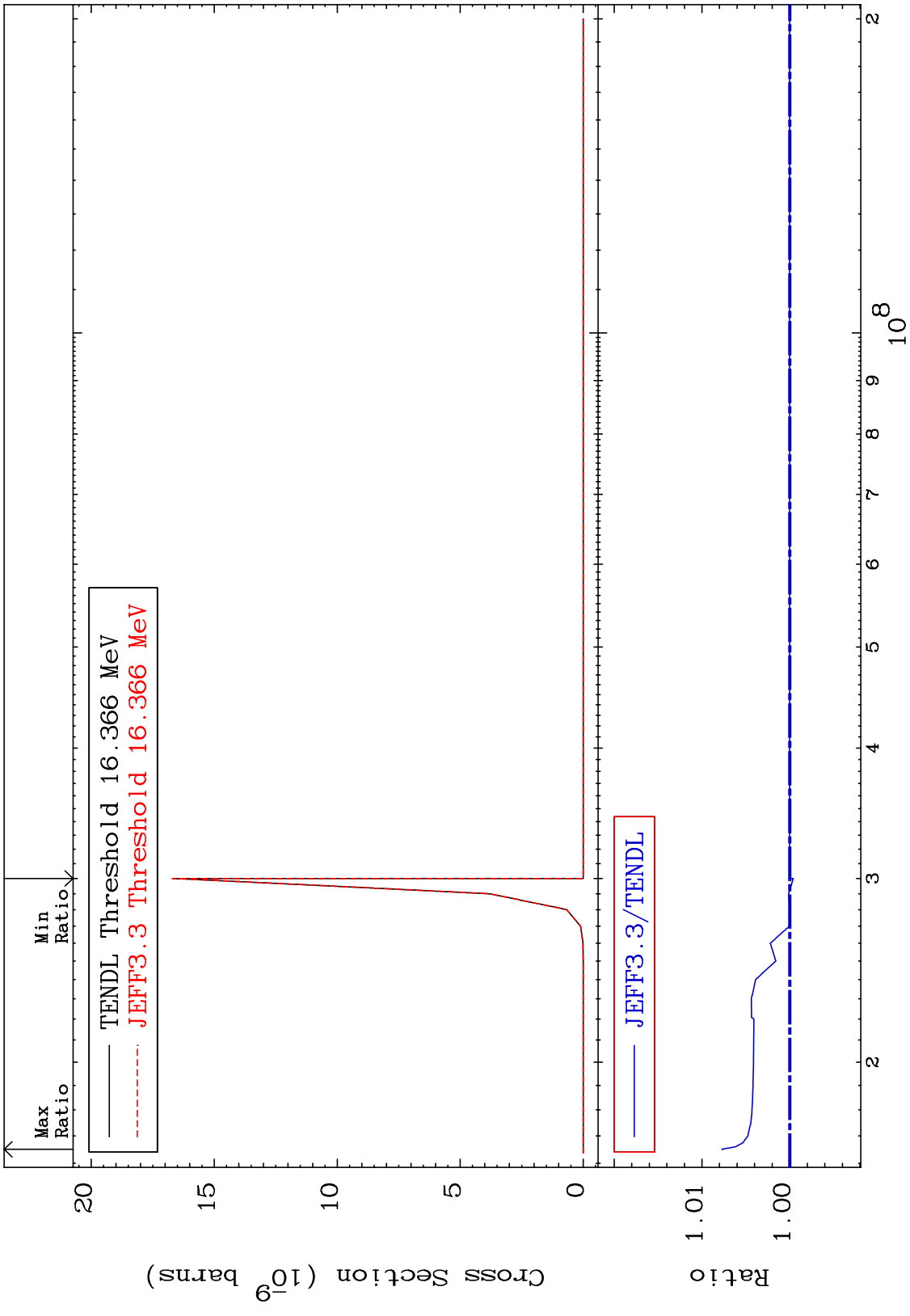
MAT 6649 (n,3n) p 66-Dy-164
Cross Section -0.230 To 0.403 %



66-Dy-164

Incident Energy (MeV)

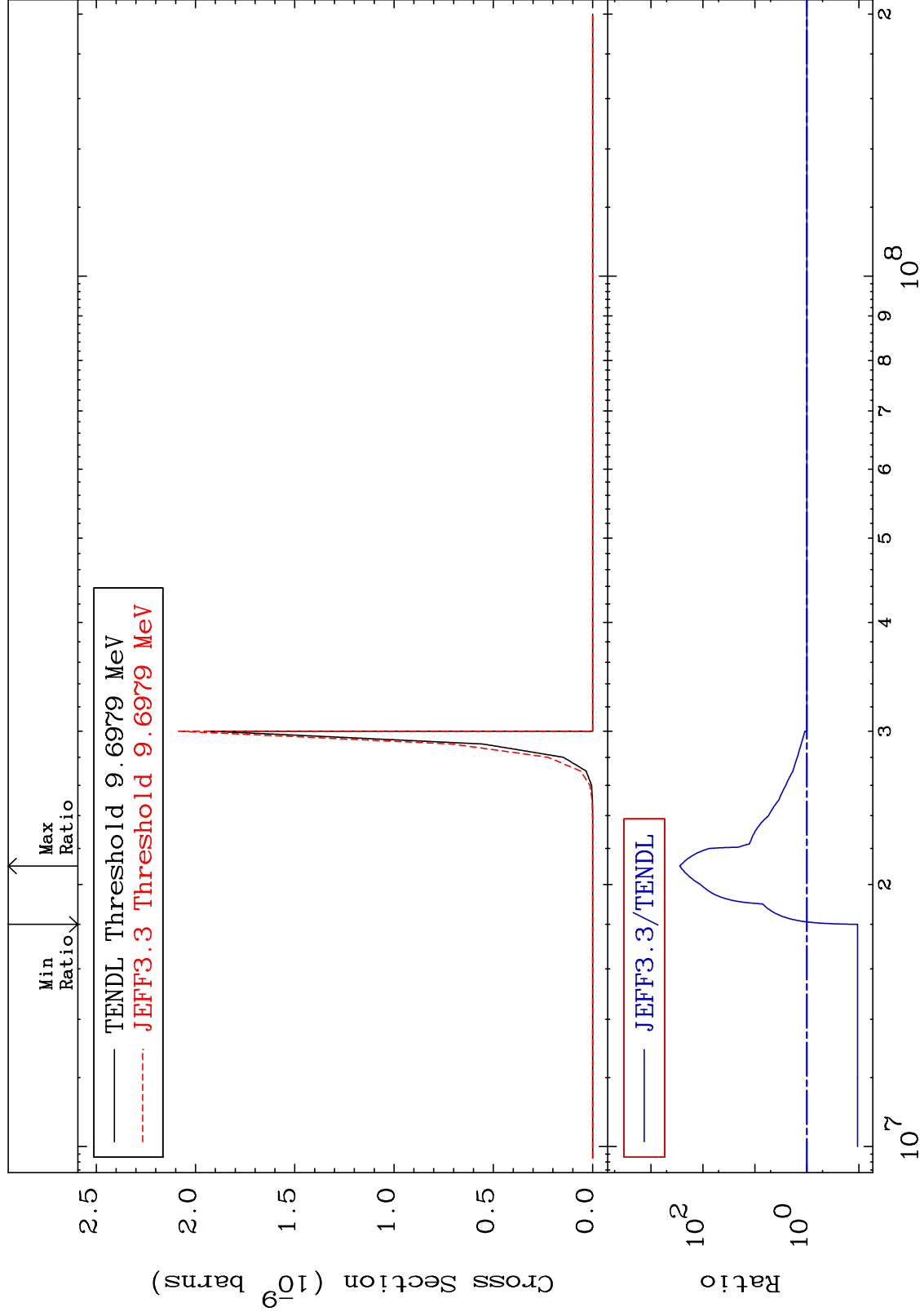
MAT 6649 (n,2n) p 66-Dy-164
 Cross Section -0.040 To 0.772 %



MAT 6649

(n,n') p α
Cross Section

66-Dy-164
-89.47 To 9999. %

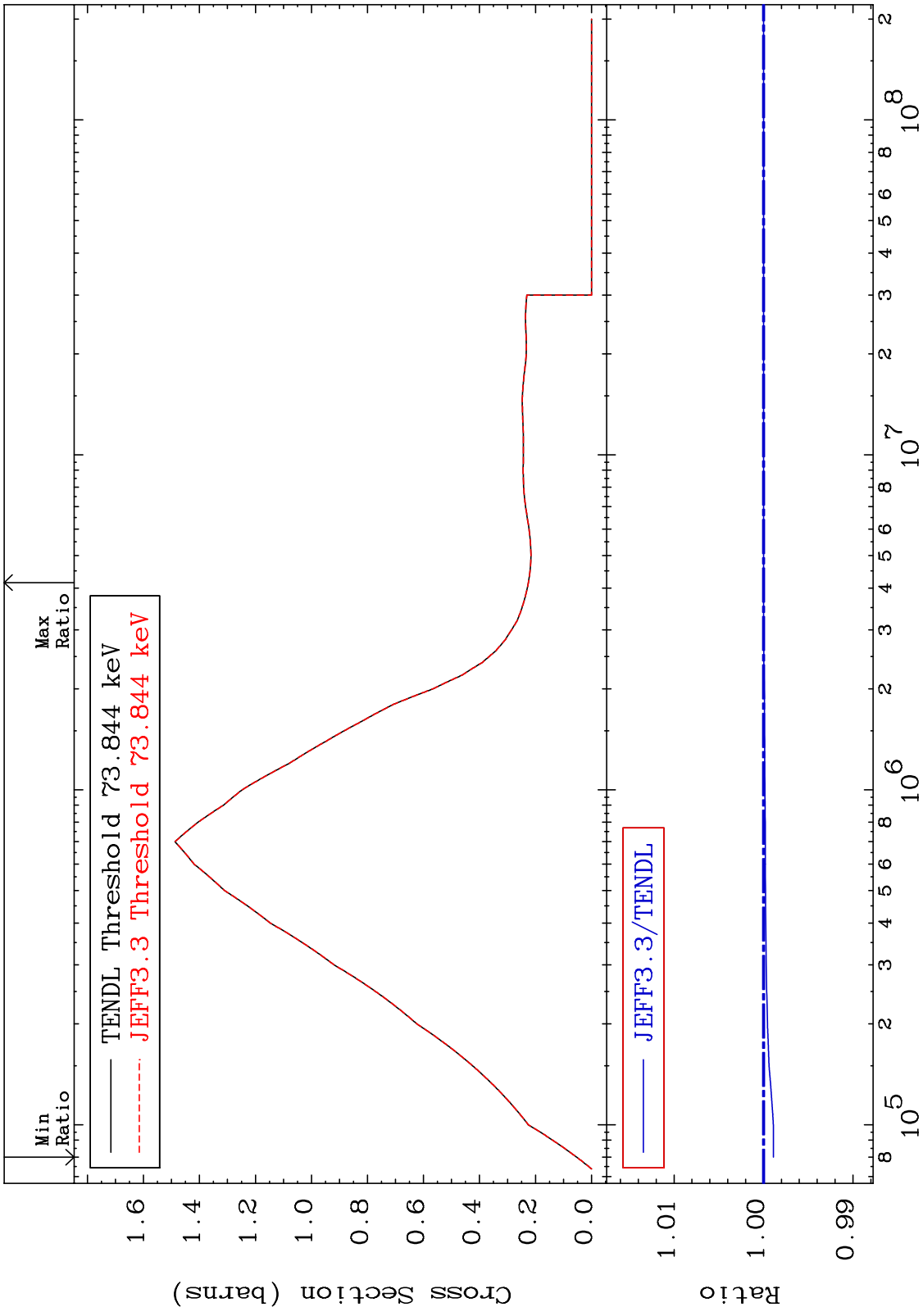


18

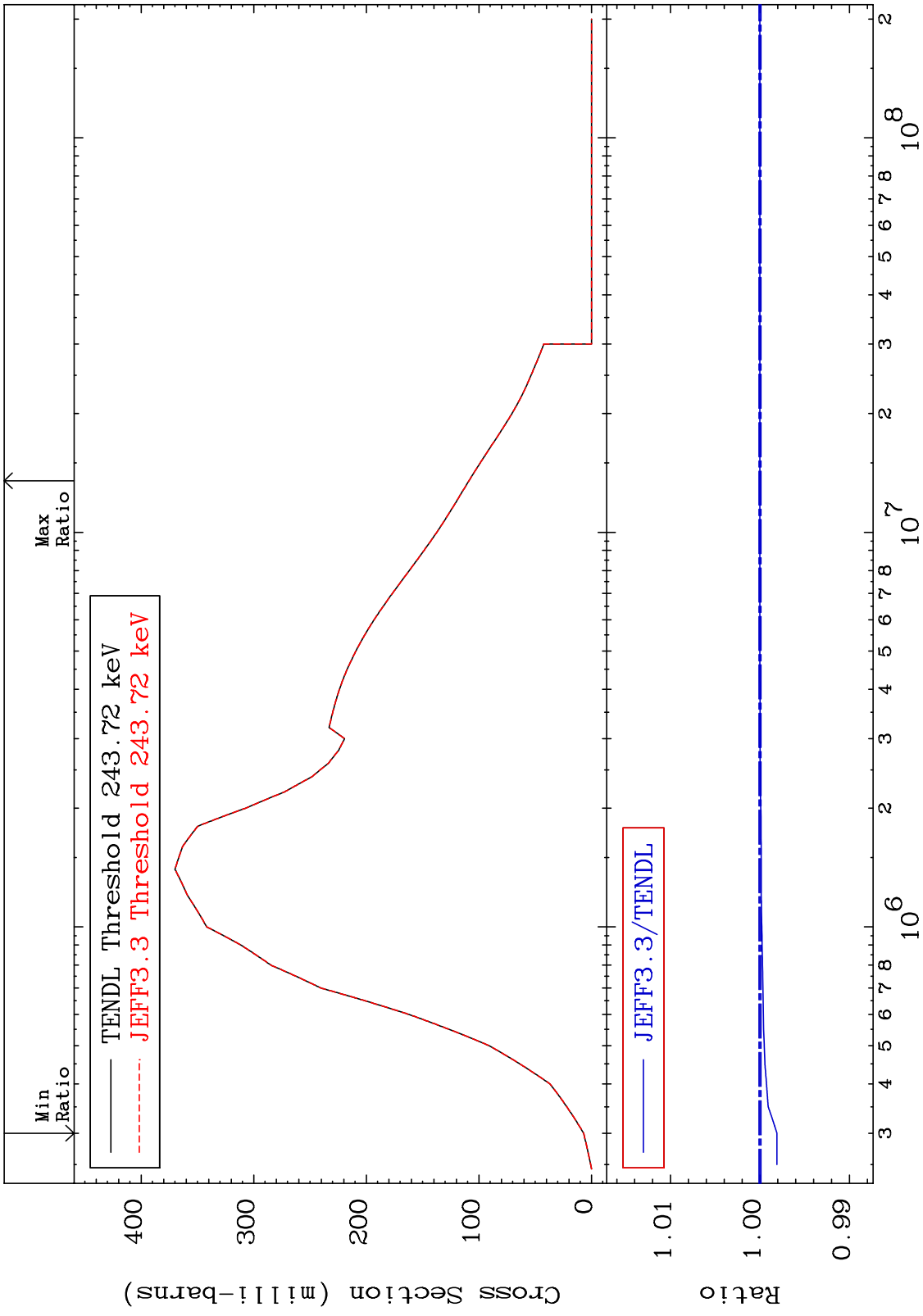
Incident Energy (eV)

66-Dy-164

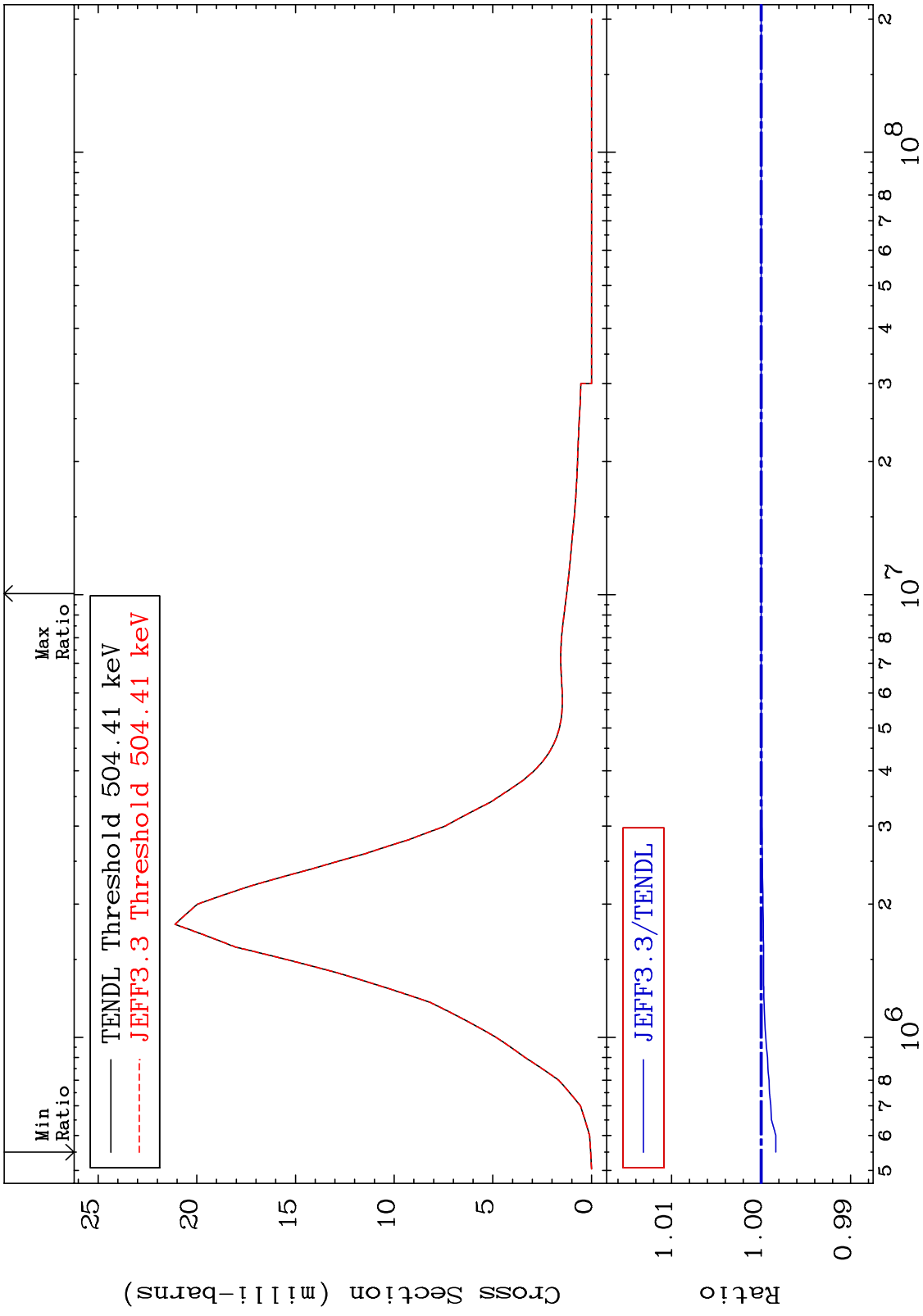
MAT 6649 MT= 51 (n,n') Level 66-Dy-164
 Cross Section -0.110 To 0.000 %



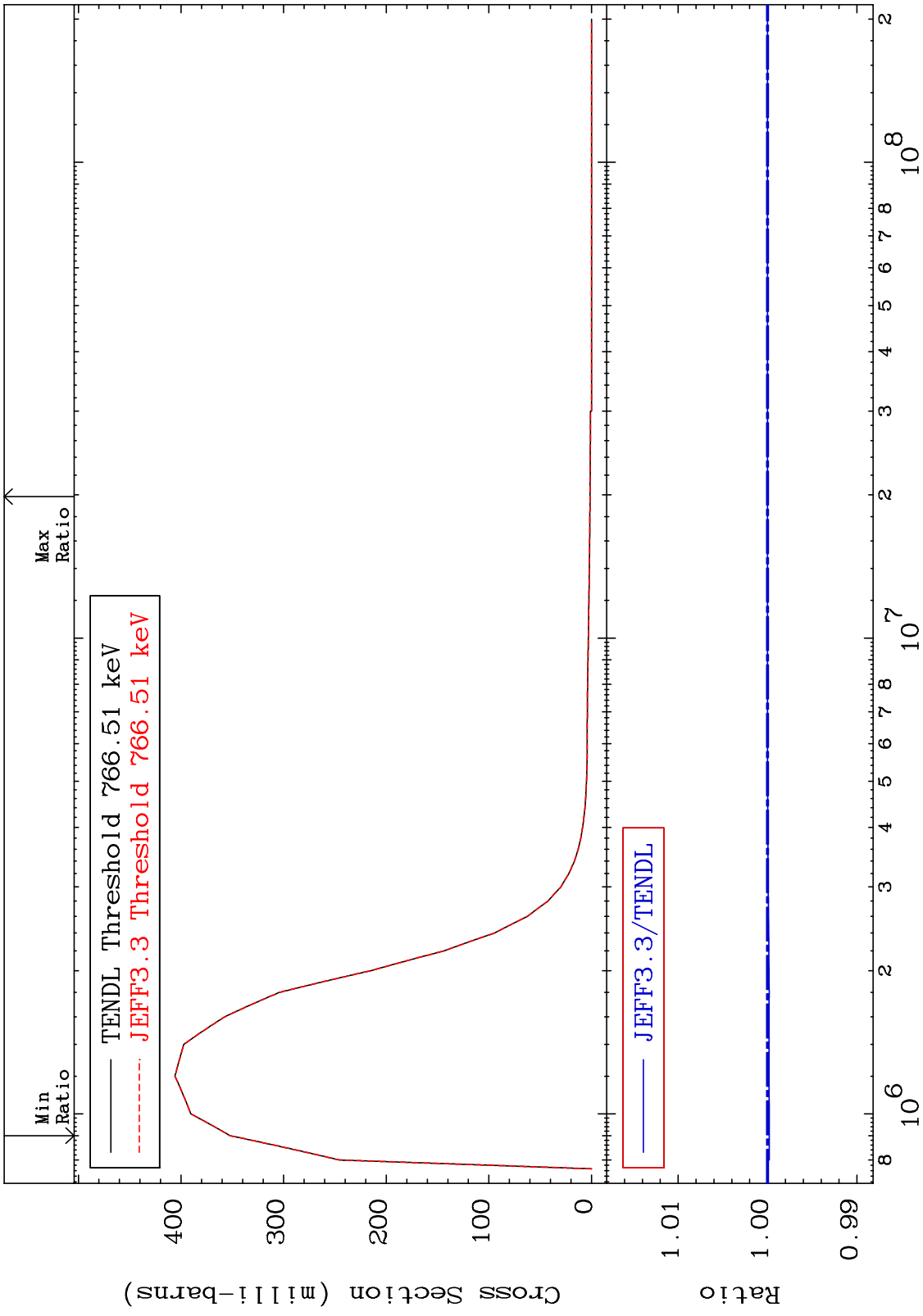
MAT 6649 MT= 52 (n,n') Level 66-Dy-164
 Cross Section -0.190 To 0.000 %



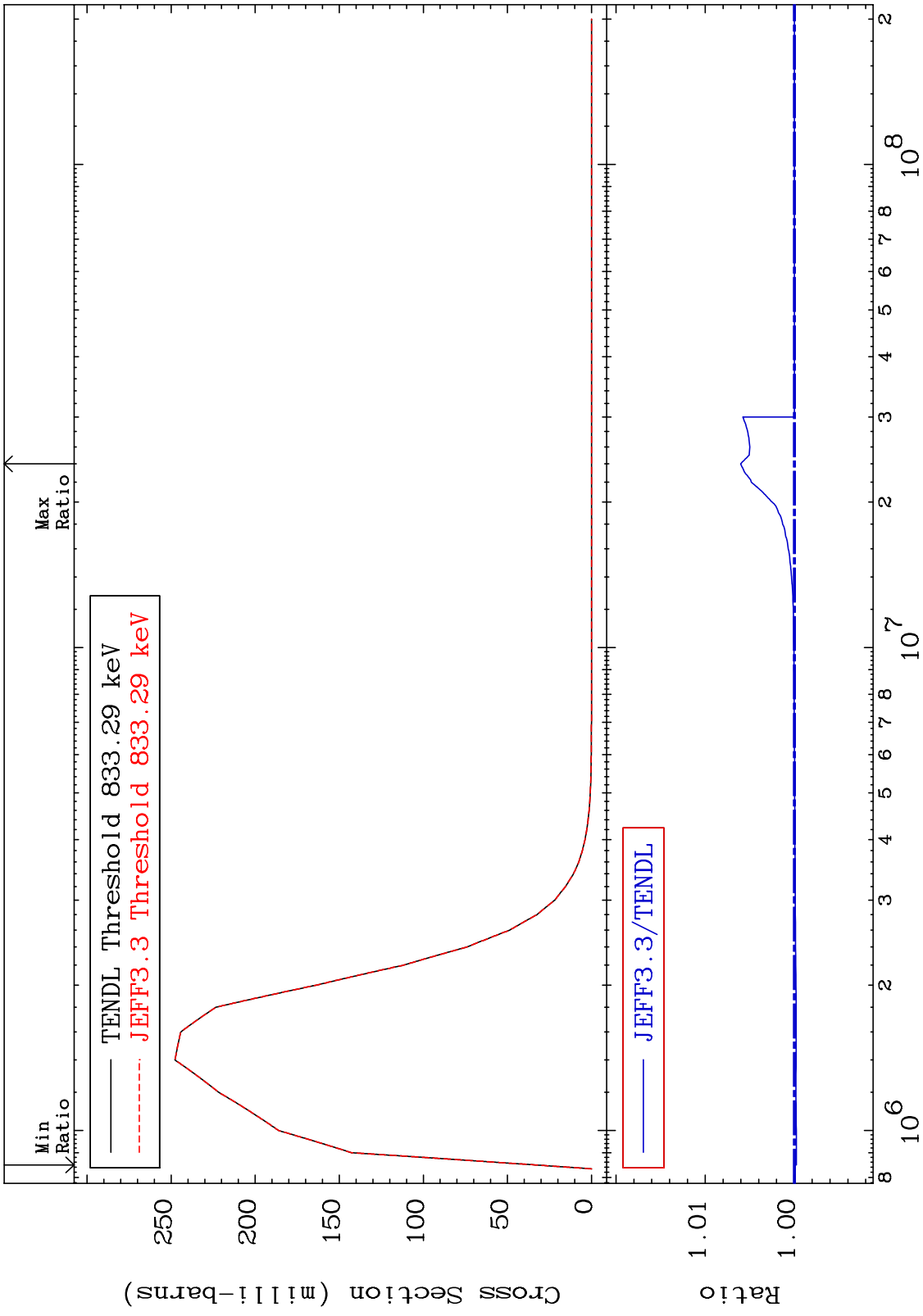
MAT 6649 MT= 53 (n,n') Level 66-Dy-164
 Cross Section -0.164 To 0.000 %



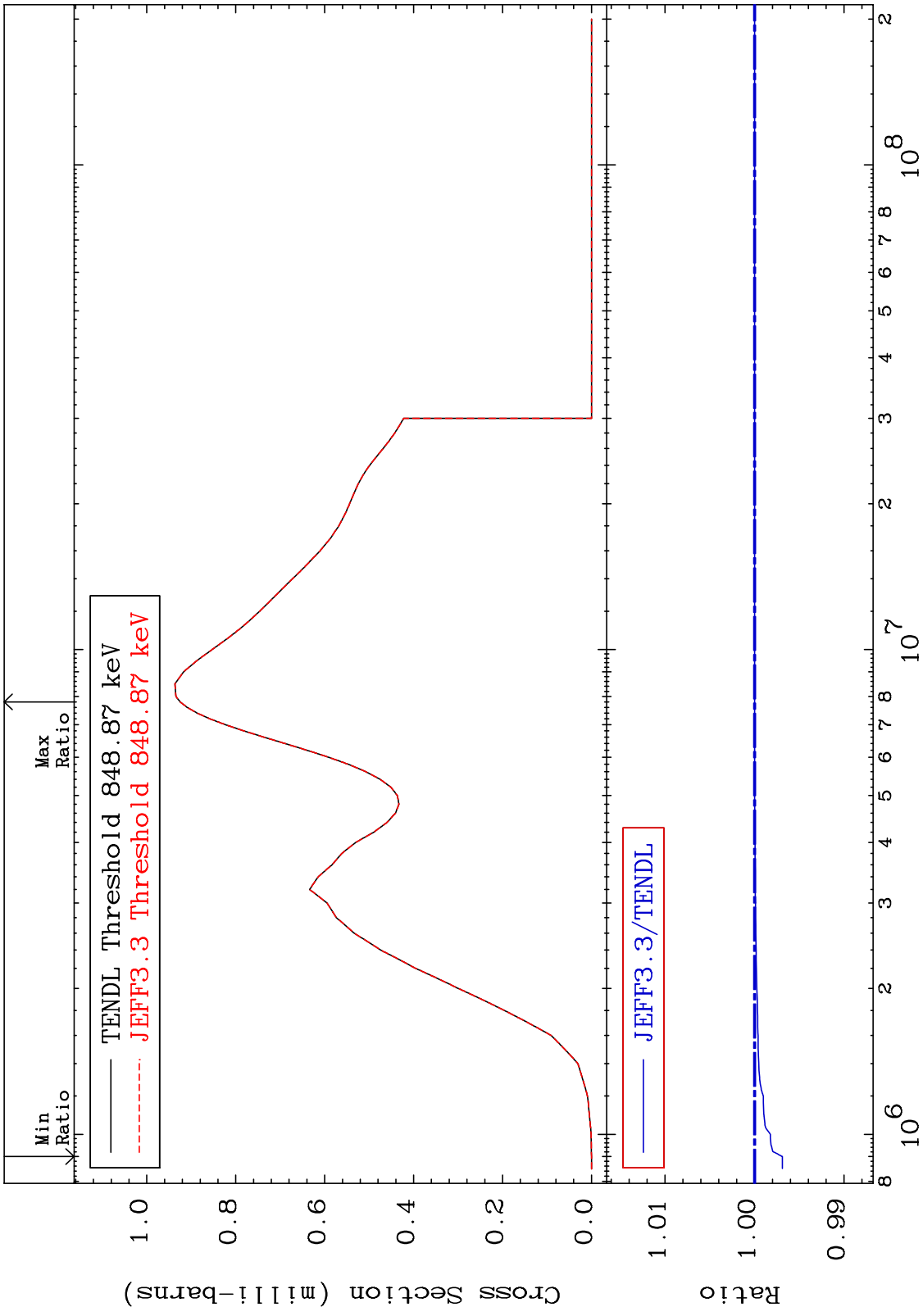
MAT 6649 MT= 54 (n,n') Level 66-Dy-164
Cross Section -0.020 To 0.000 %



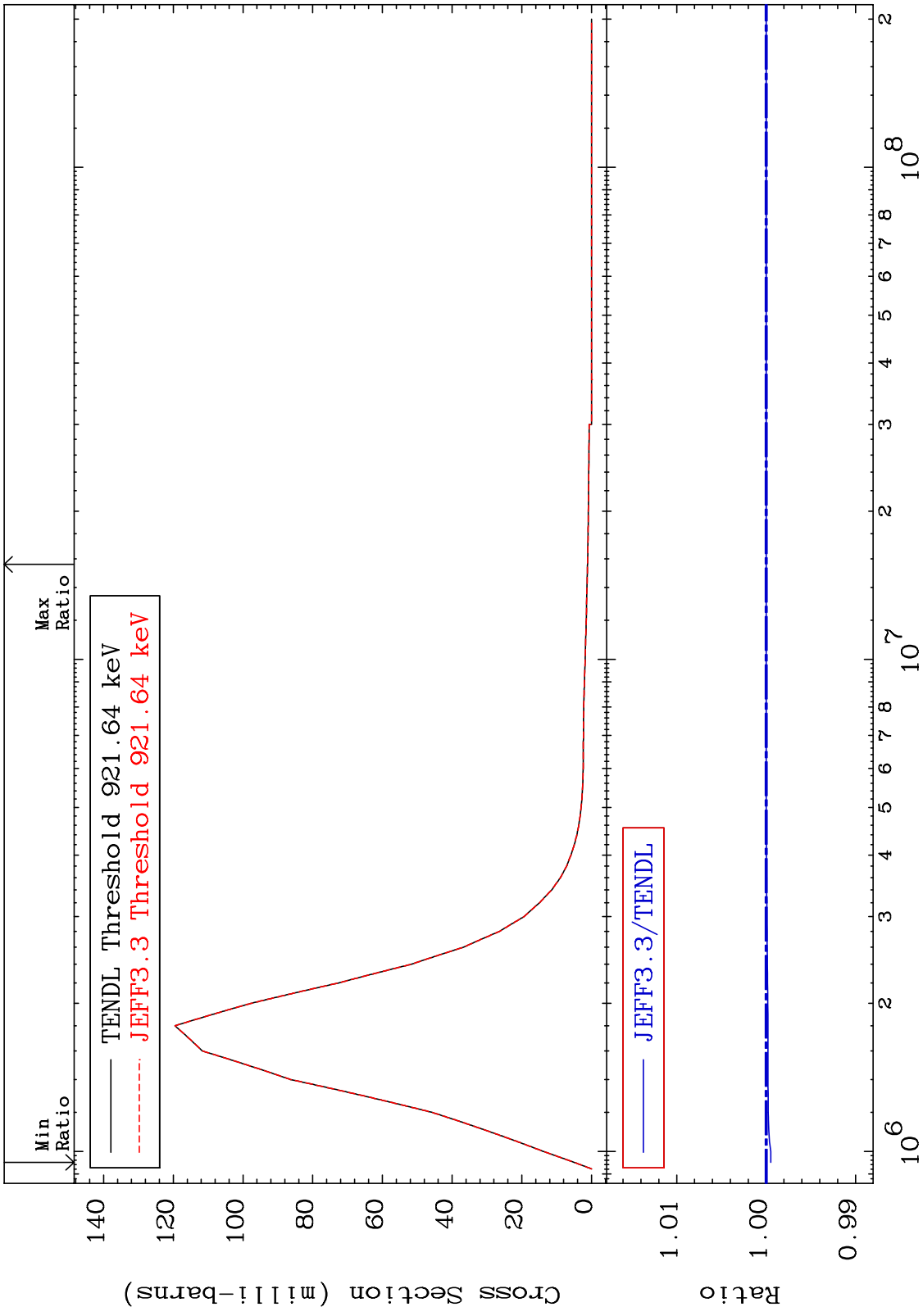
MAT 6649 MT= 55 (n,n') Level Cross Section 66-Dy-164
-0.022 To 0.603 %



MAT 6649 MT= 56 (n,n') Level 66-Dy-164
 Cross Section -0.310 To 0.000 %

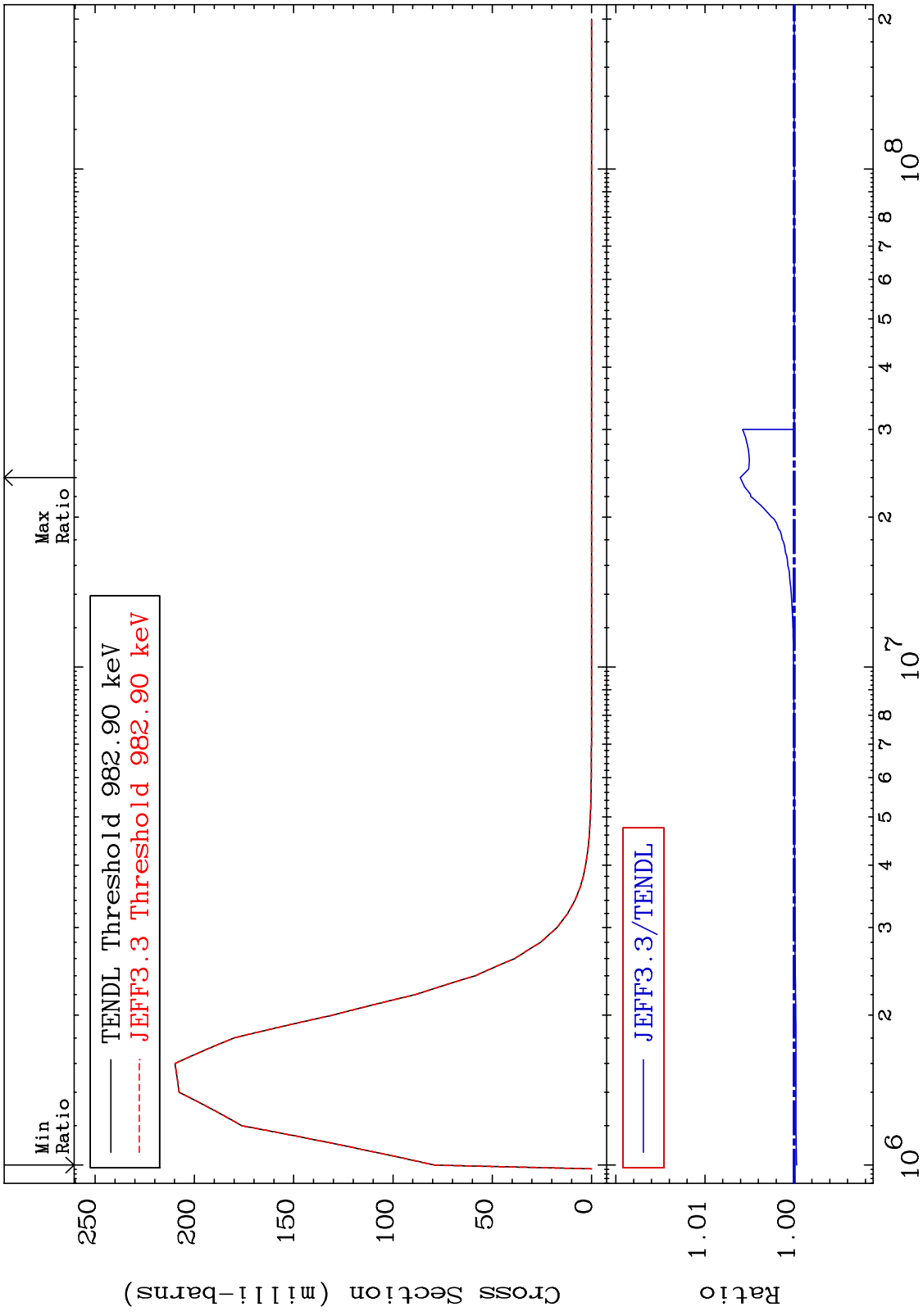


MAT 6649 MT= 57 (n,n') Level 66-Dy-164
 Cross Section -0.052 To 0.000 %

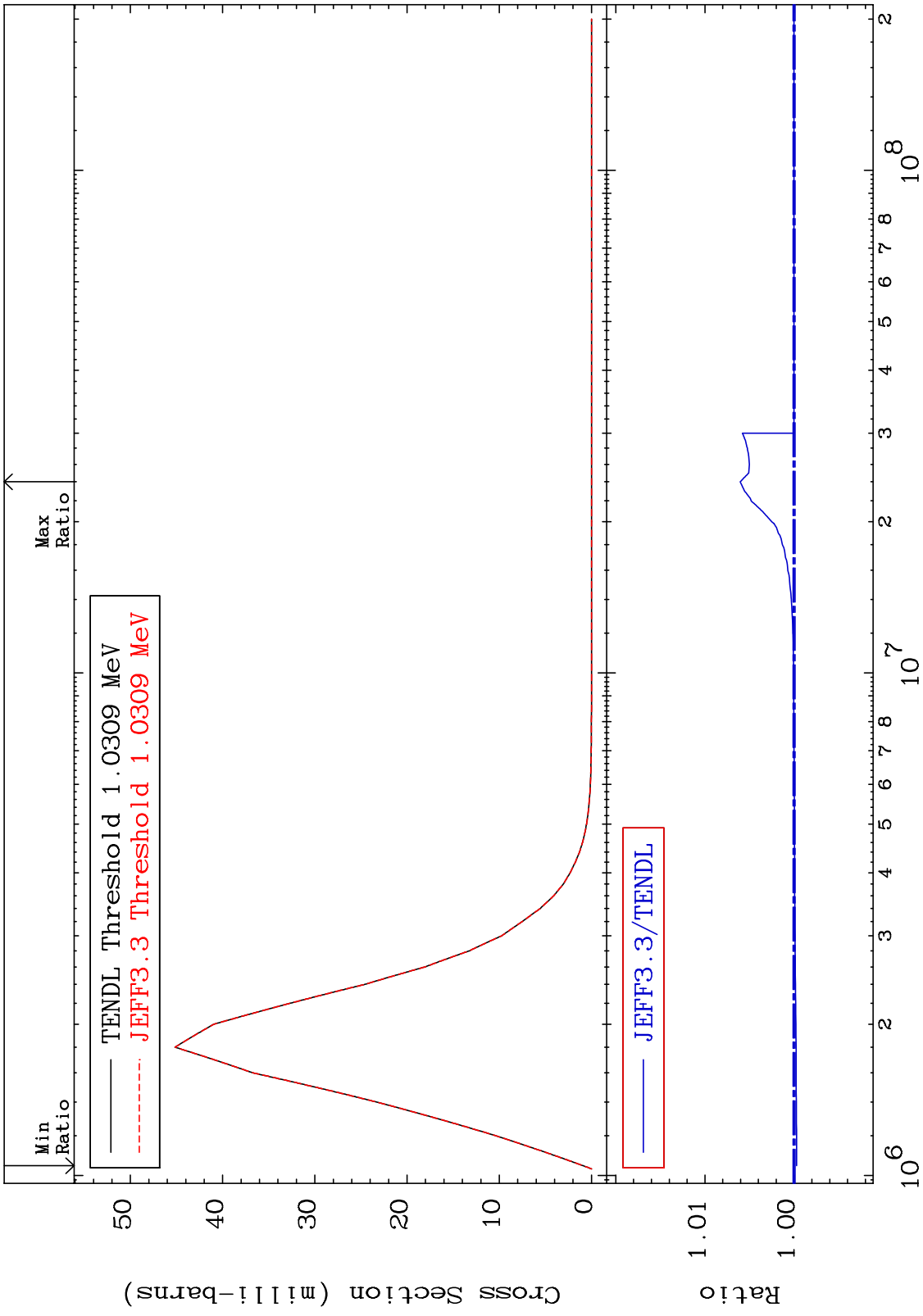


25 Incident Energy (eV) 66-Dy-164

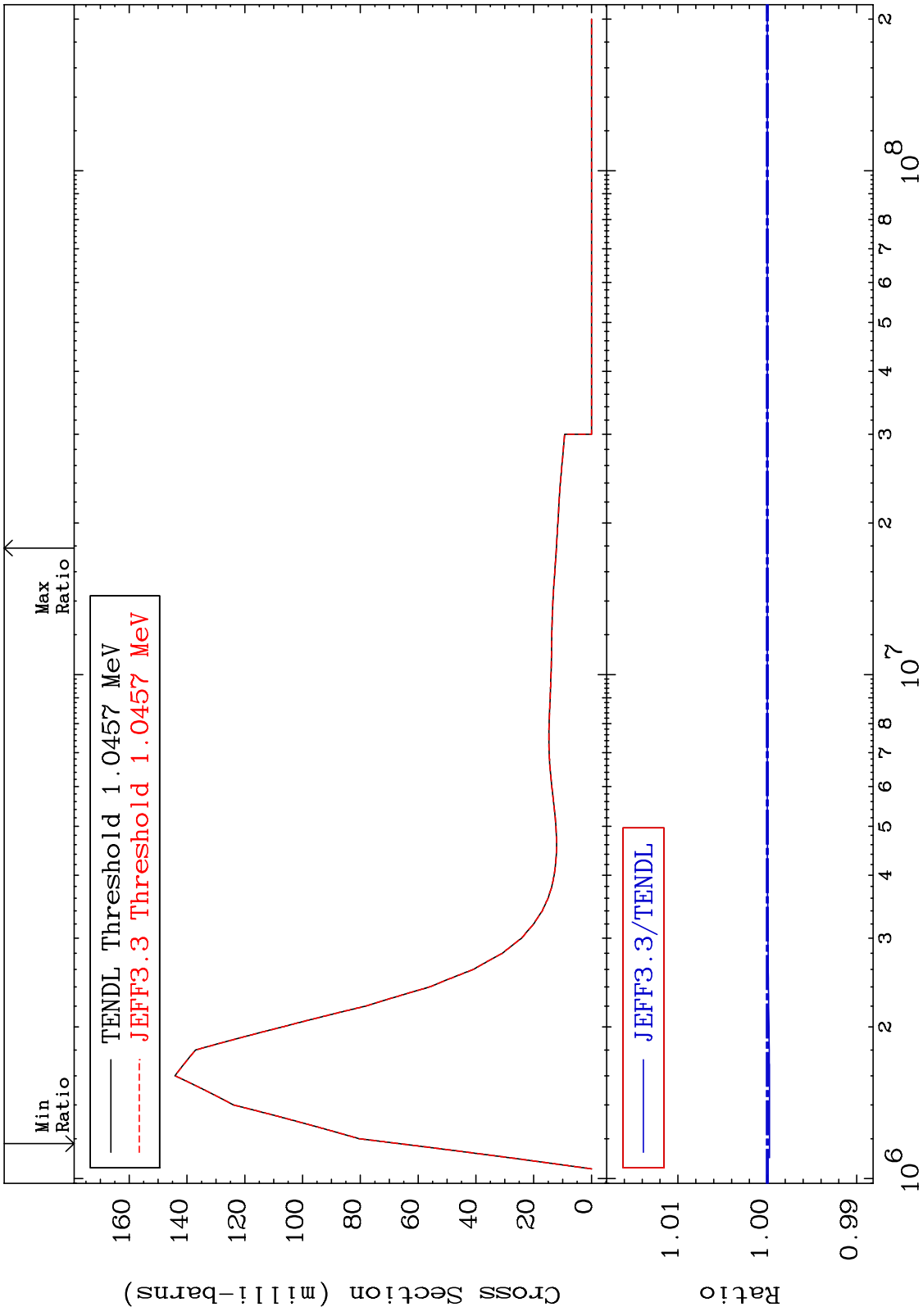
MAT 6649 MT= 58 (n,n') Level Cross Section 66-Dy-164
 -0.028 To 0.604 %



MAT 6649 MT= 59 (n,n') Level 66-Dy-164
 Cross Section -0.029 To 0.604 %

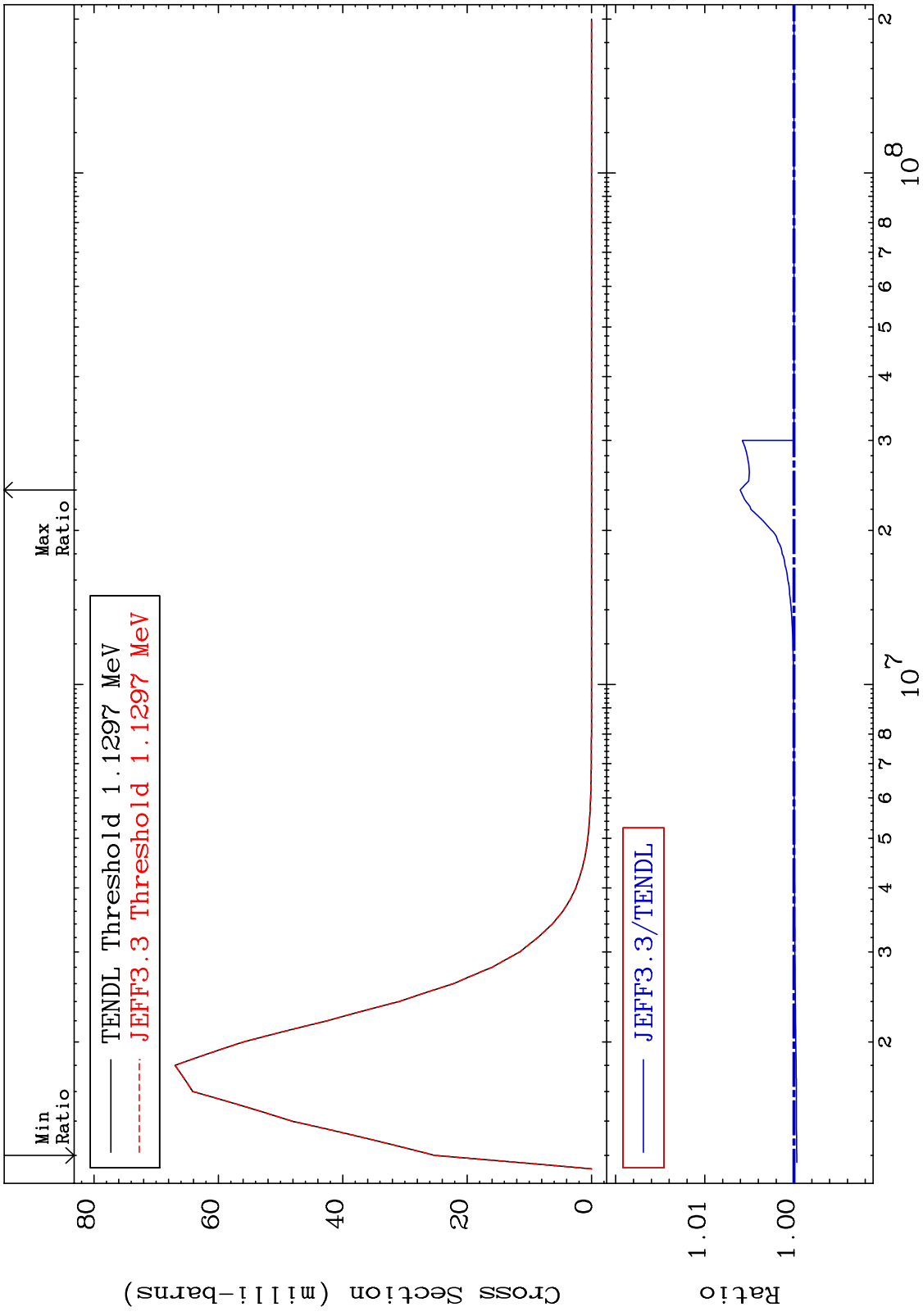


MAT 6649 MT= 60 (n,n') Level 66-Dy-164
 Cross Section -0.024 To 0.000 %

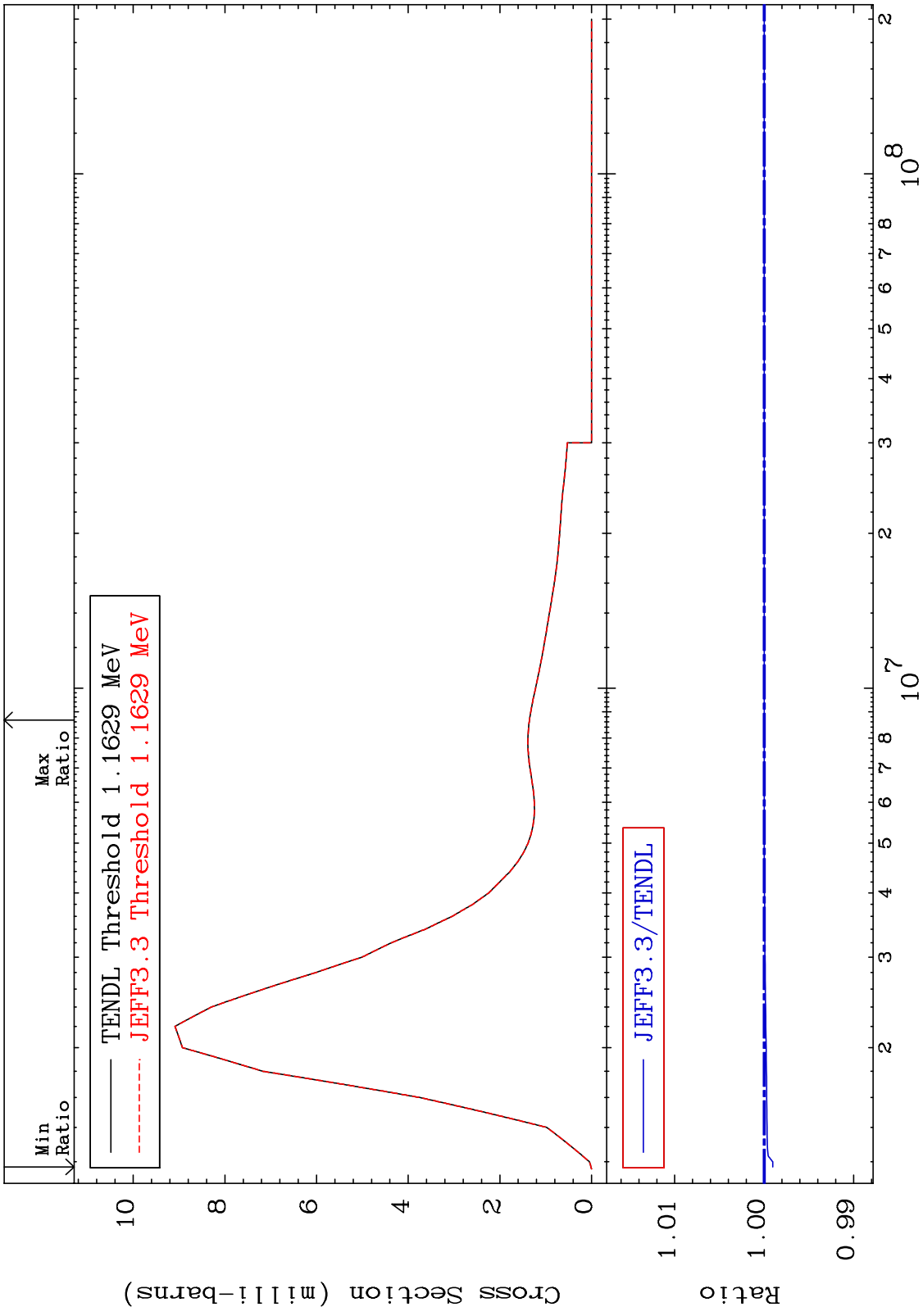


28 66-Dy-164

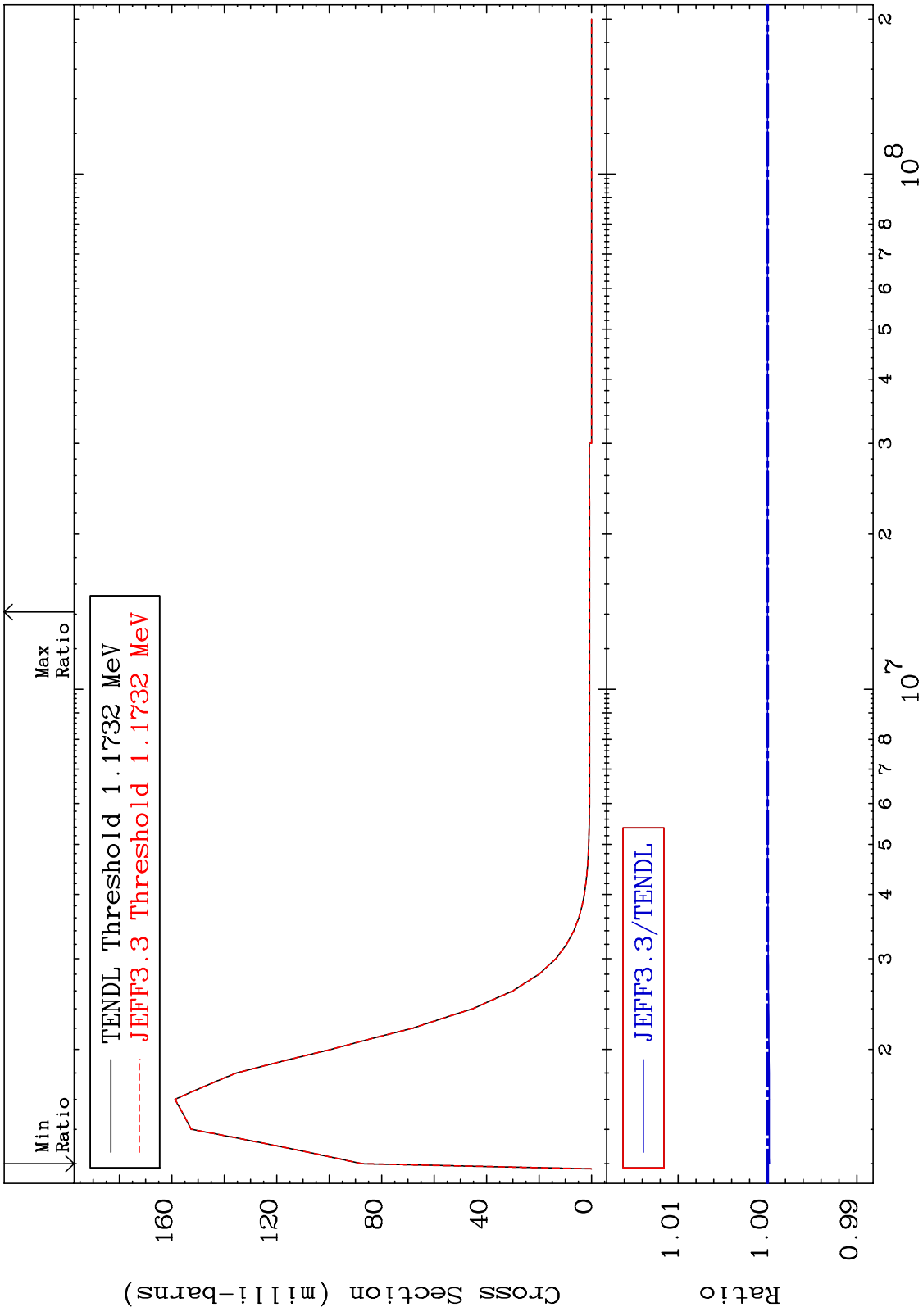
MAT 6649 MT= 61 (n,n') Level Cross Section 66-Dy-164
 -0.031 To 0.604 %



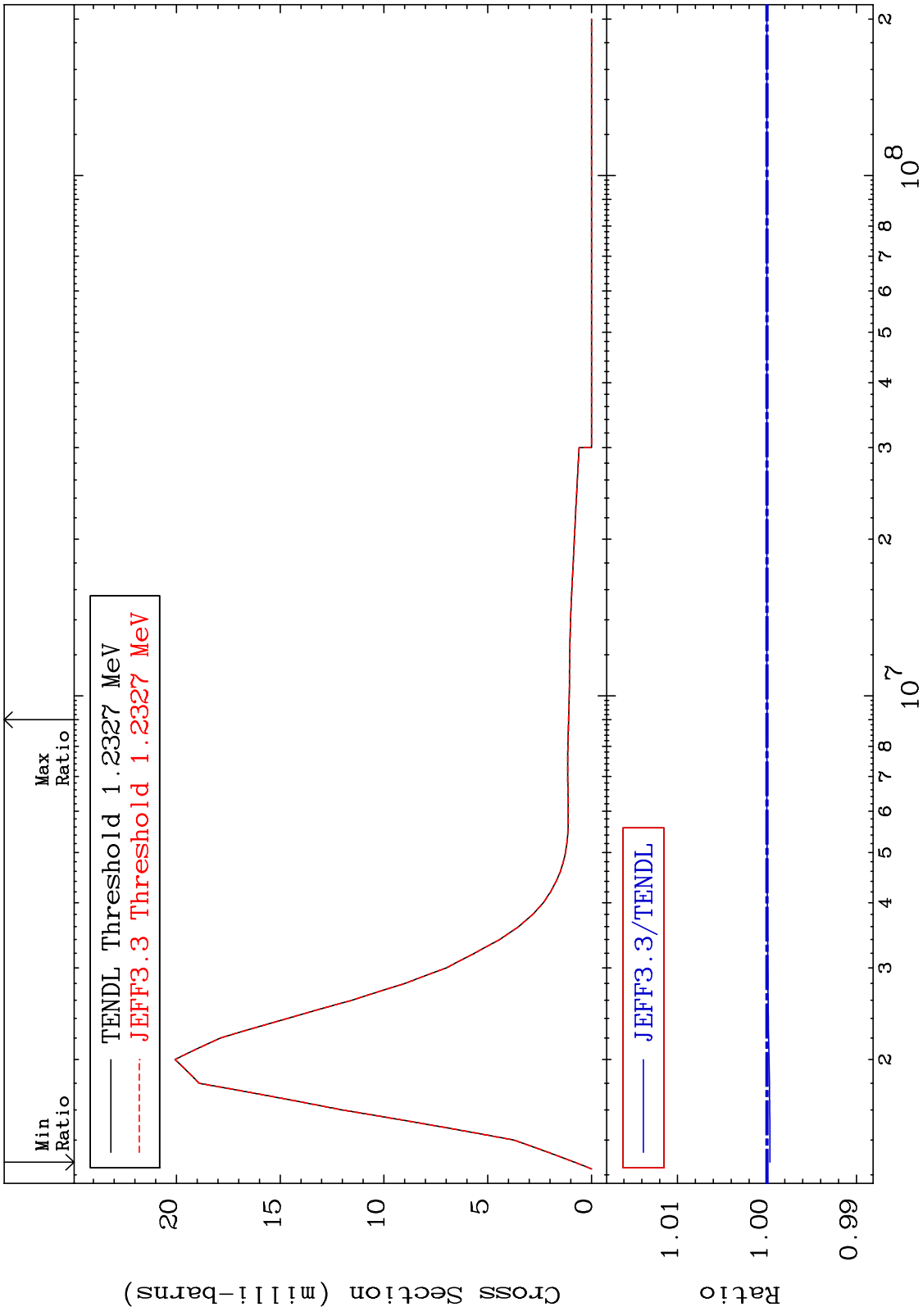
MAT 6649 MT= 62 (n,n') Level Cross Section 66-Dy-164 -0.096 To 0.000 %



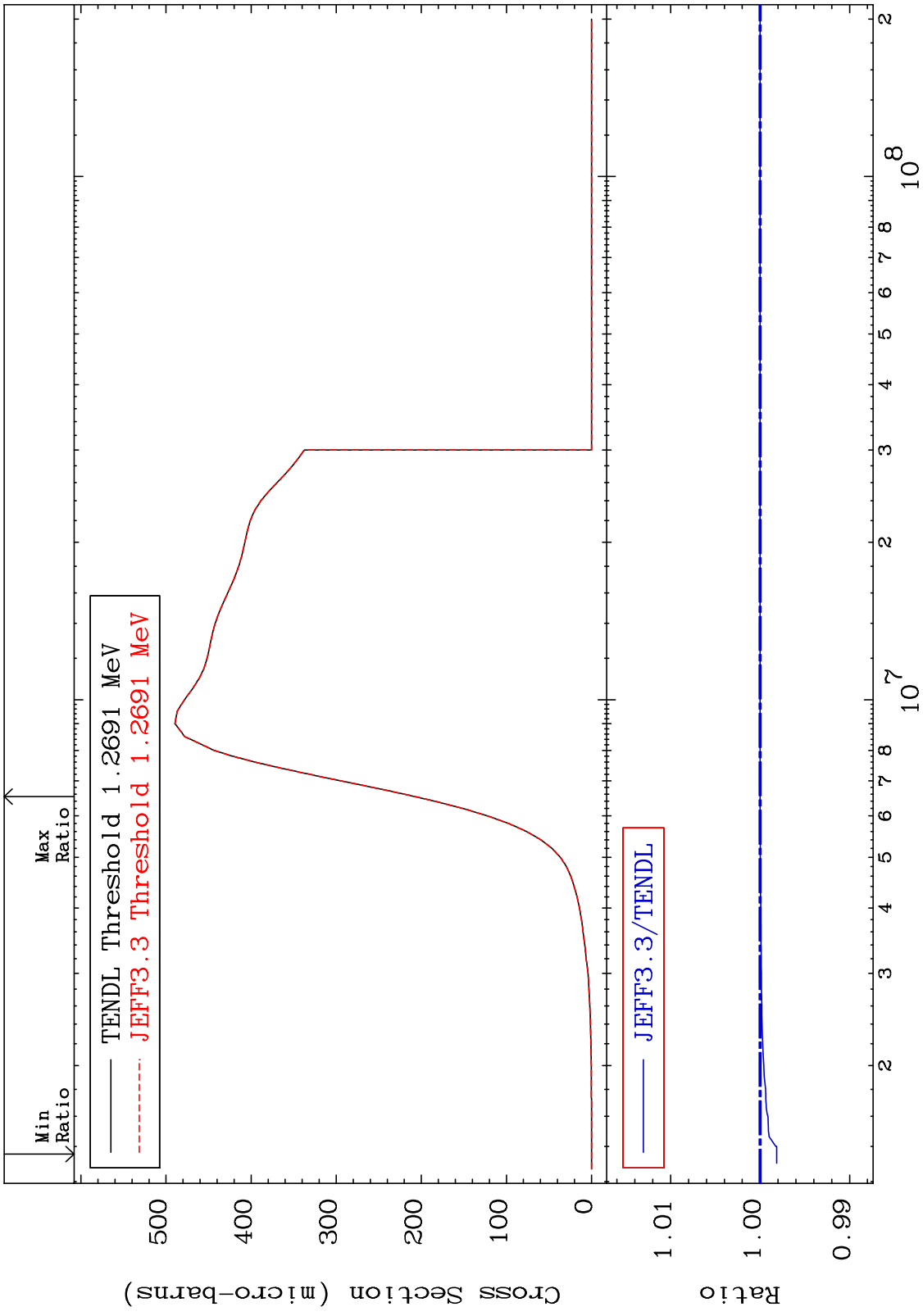
MAT 6649 MT= 63 (n,n') Level Cross Section 66-Dy-164
 -0.022 To 0.000 %



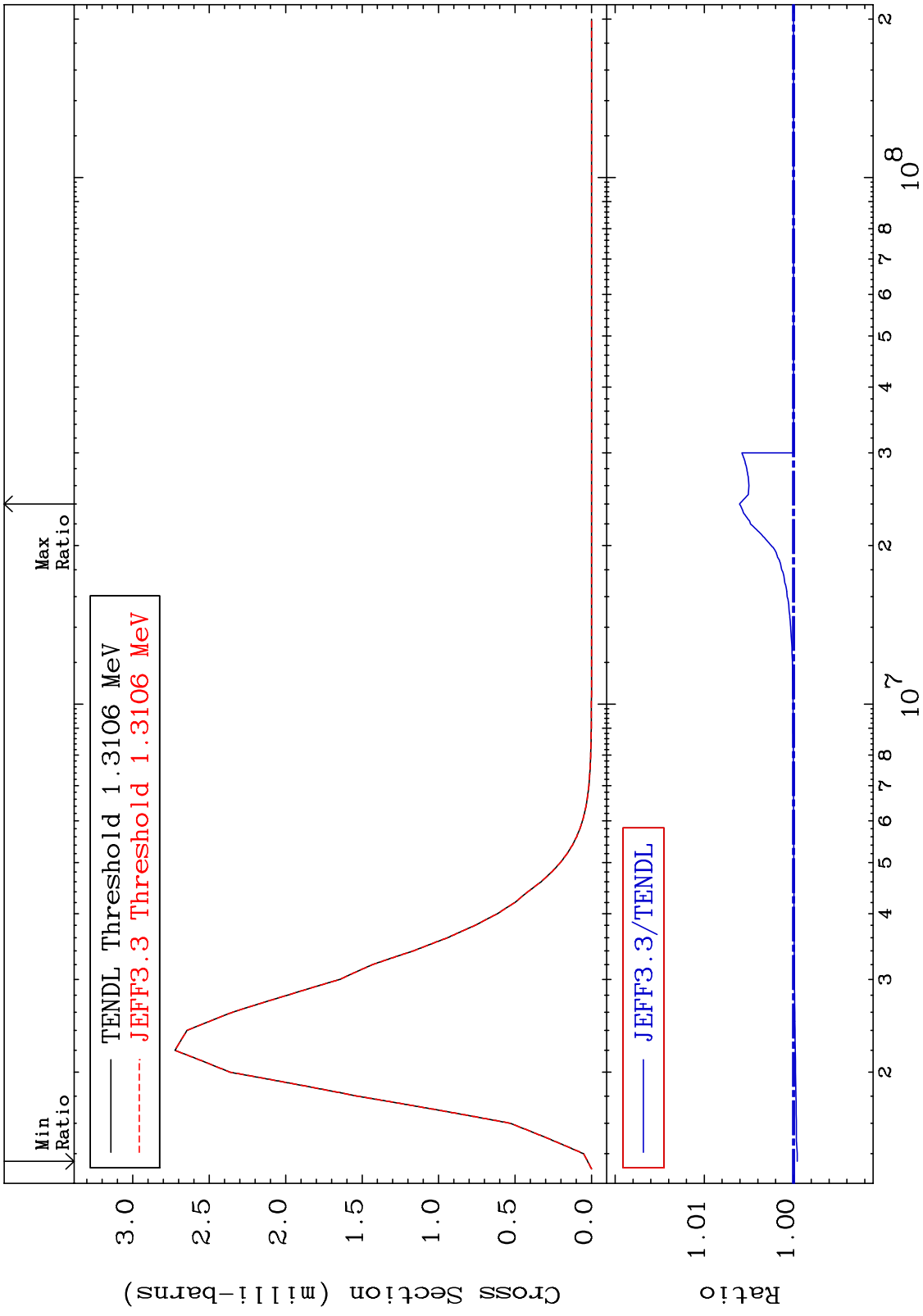
MAT 6649 MT= 64 (n,n') Level Cross Section 66-Dy-164
 -0.033 To 0.000 %



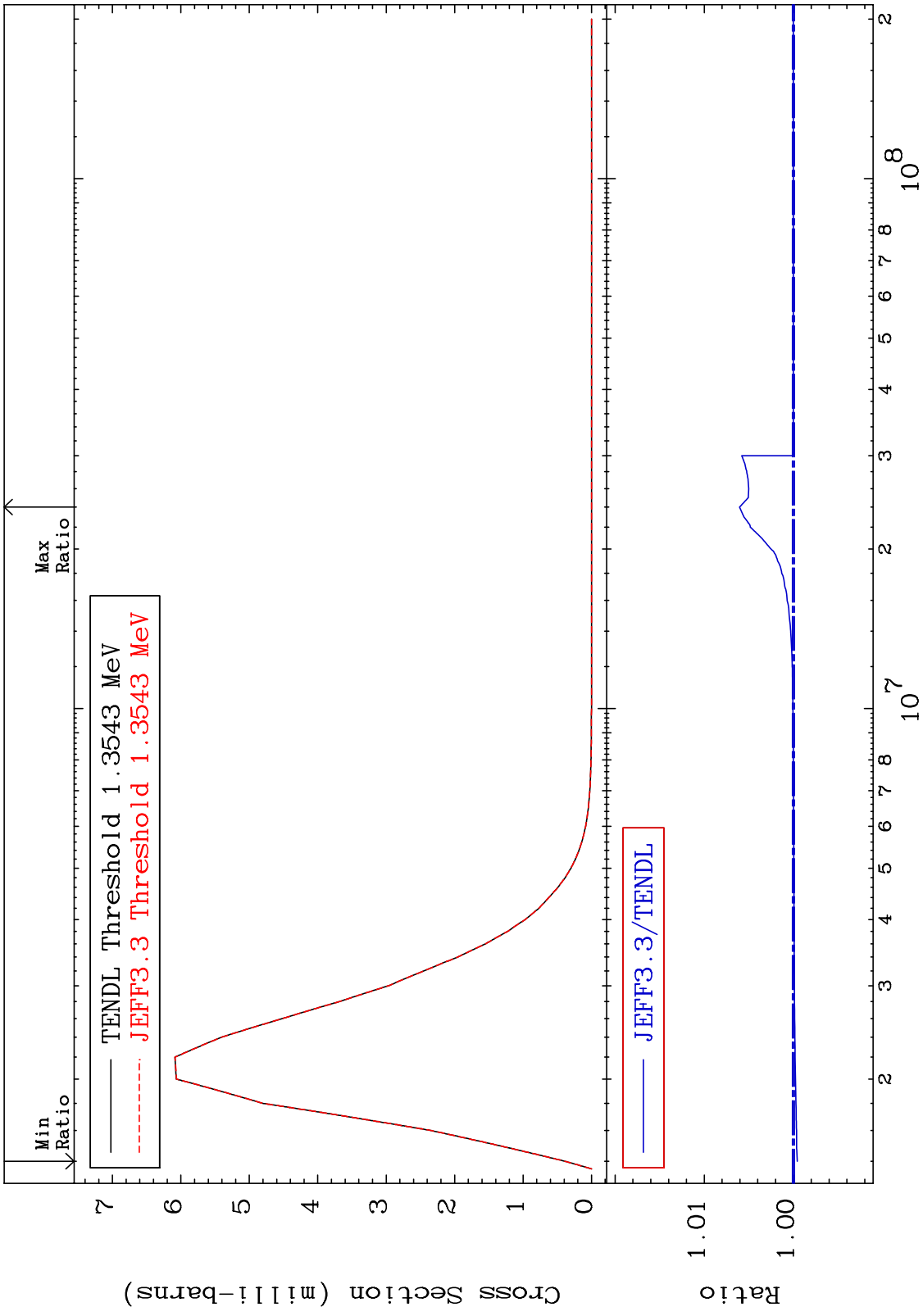
MAT 6649 MT= 65 (n,n') Level Cross Section 66-Dy-164
 -0.186 To 0.000 %



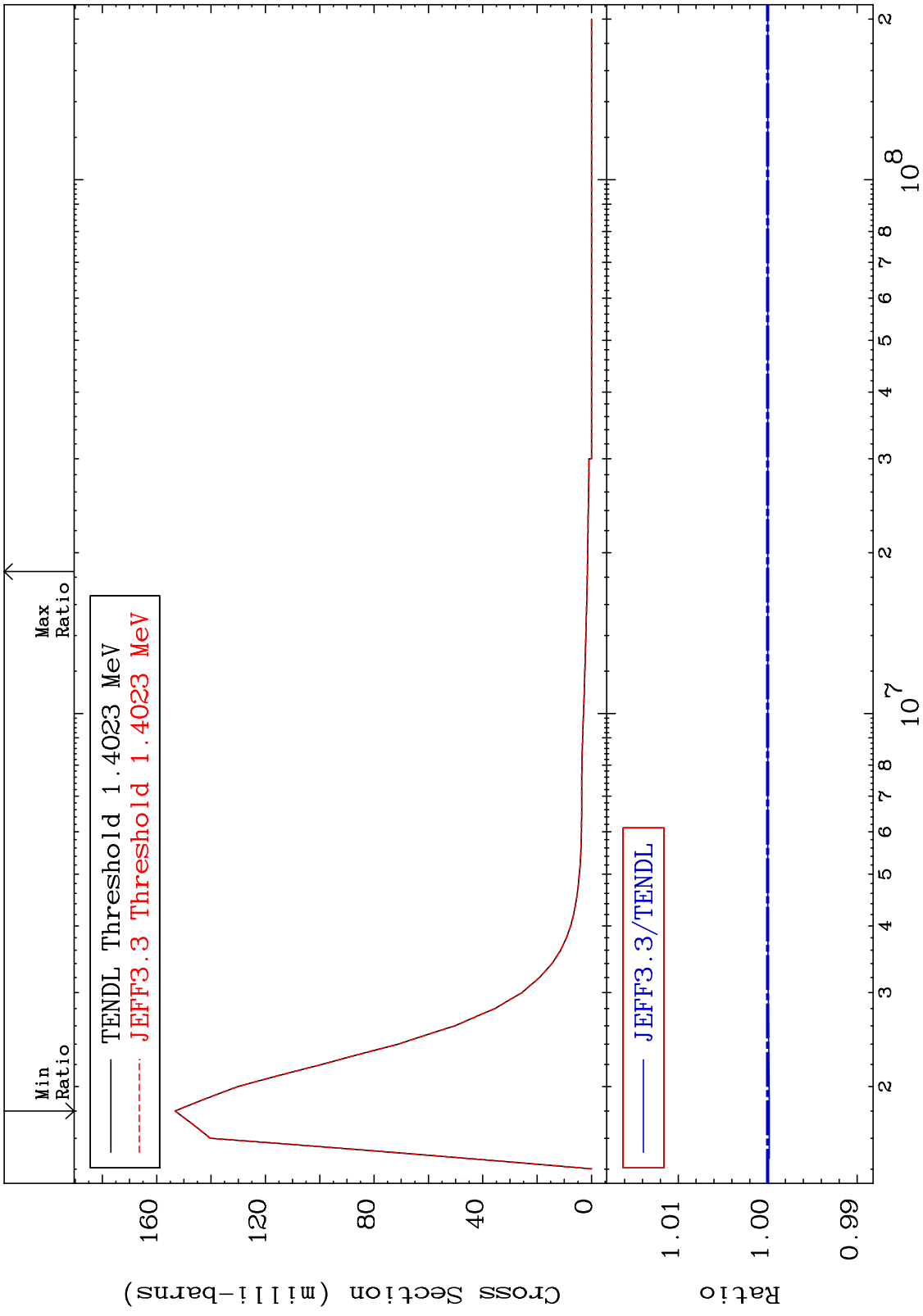
MAT 6649 MT= 66 (n,n') Level Cross Section 66-Dy-164
 -0.043 To 0.604 %



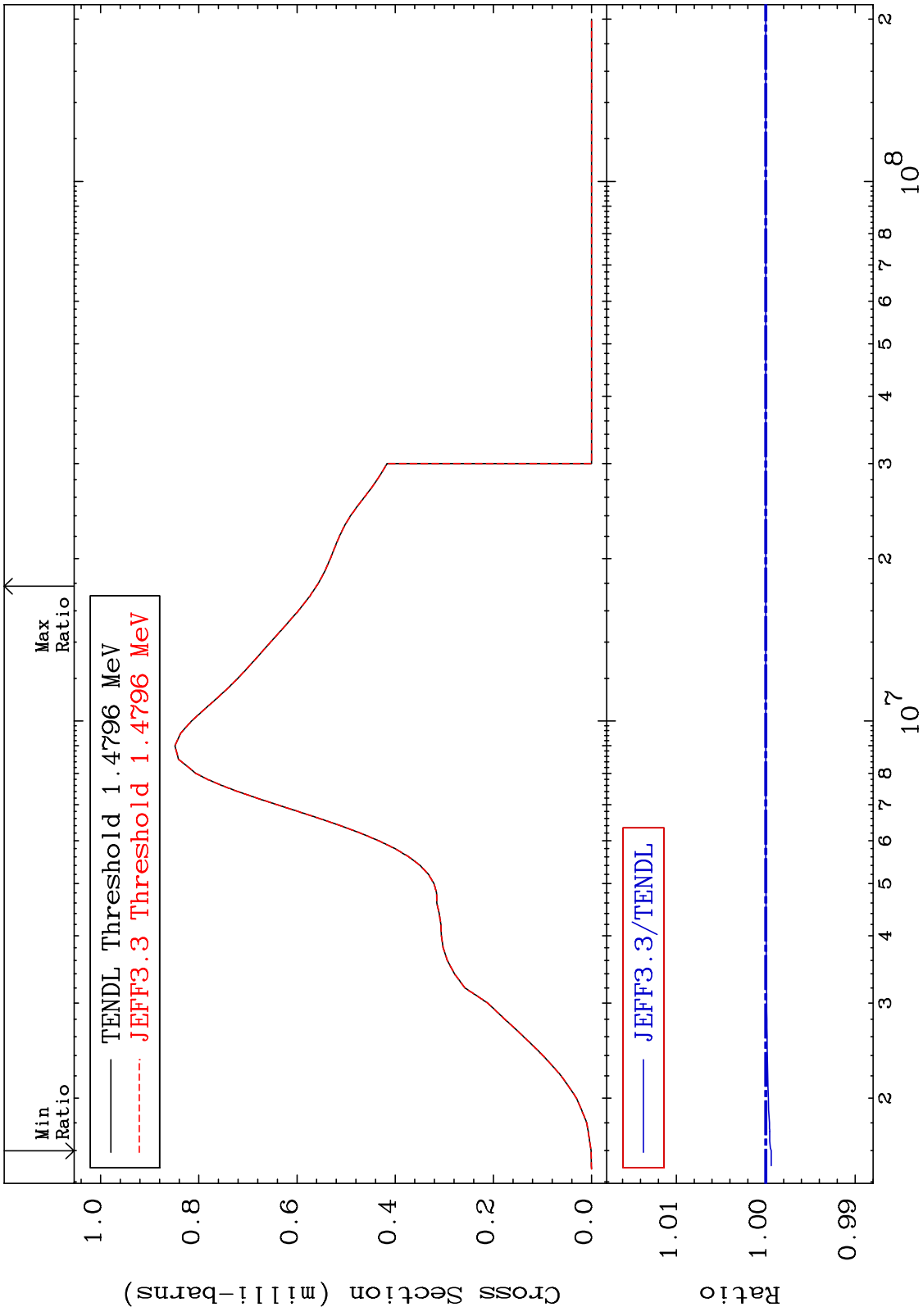
MAT 6649 MT= 67 (n,n') Level Cross Section 66-Dy-164
 -0.043 To 0.604 %



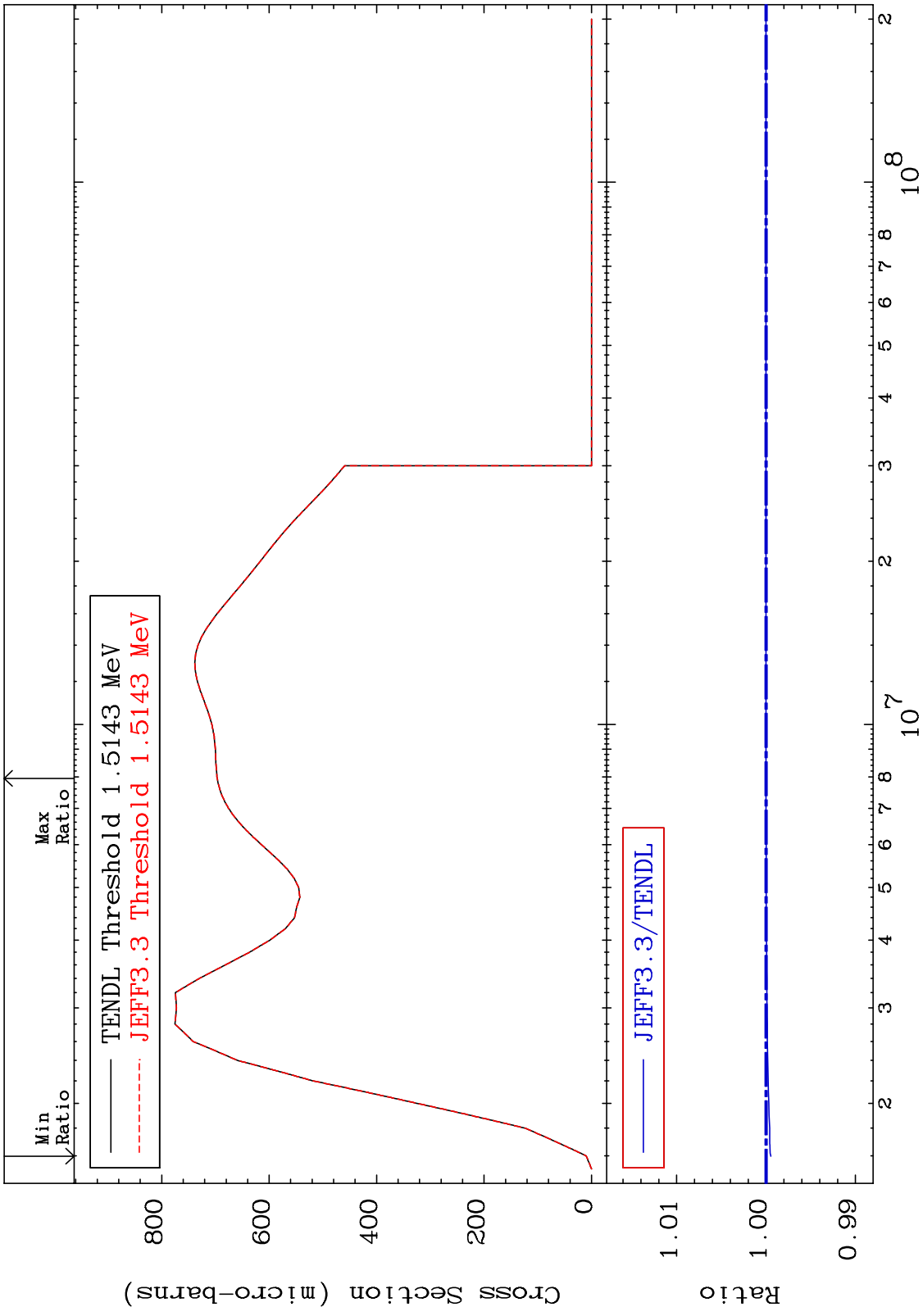
MAT 6649 MT= 68 (n,n') Level Cross Section 66-Dy-164
 -0.018 To 0.000 %



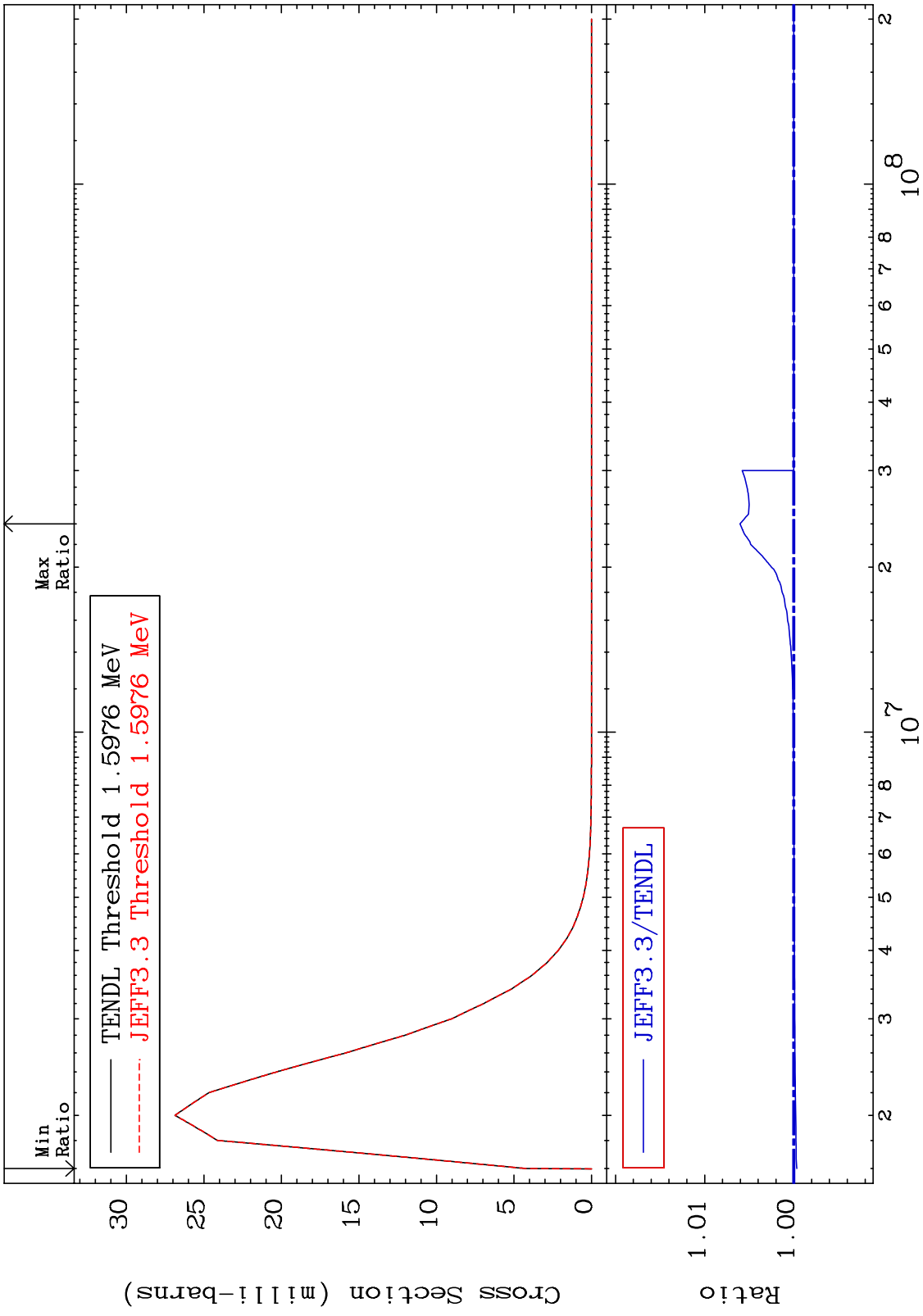
MAT 6649 MT= 69 (n,n') Level Cross Section 66-Dy-164
 -0.061 To 0.000 %



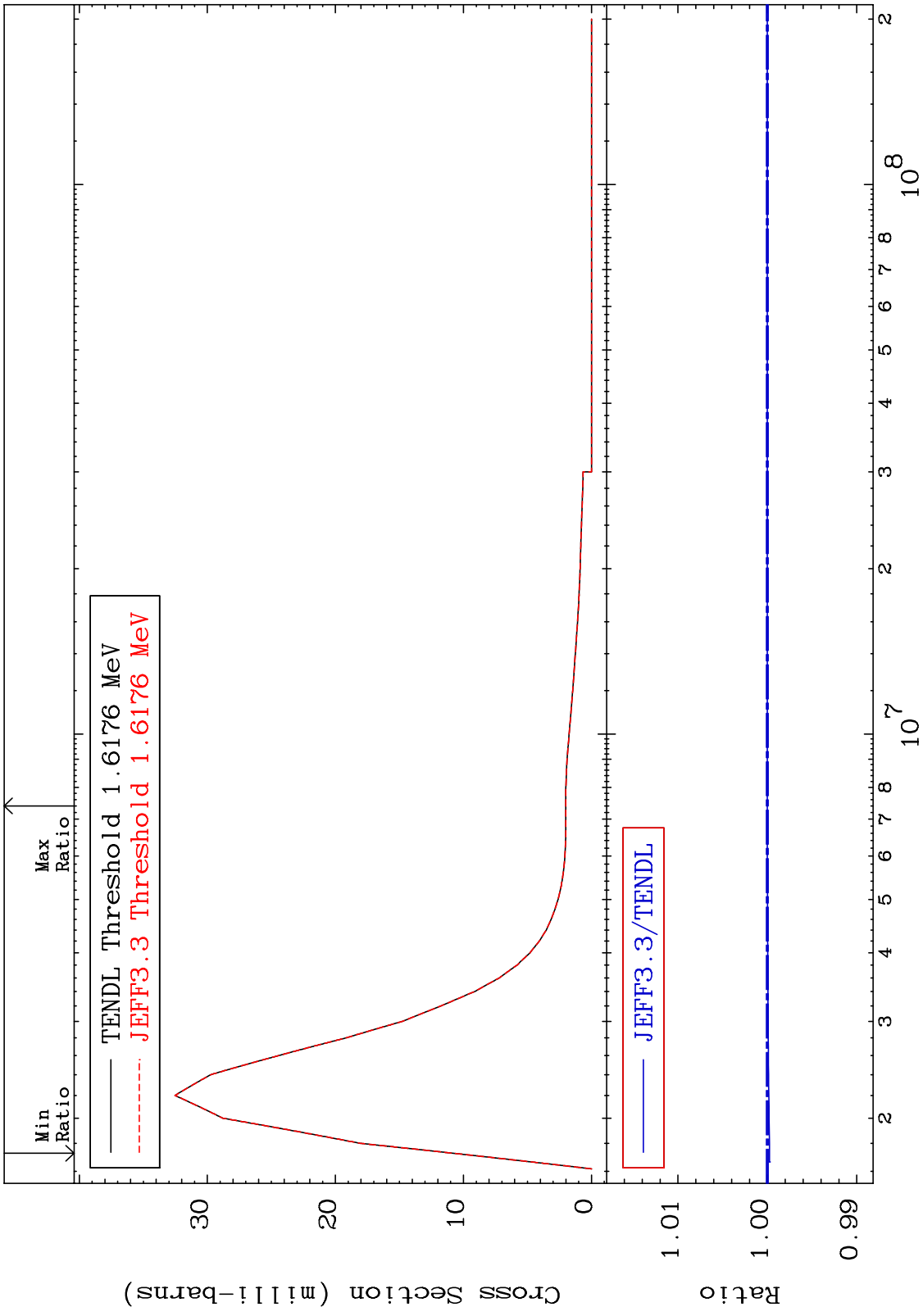
MAT 6649 MT= 70 (n,n') Level Cross Section 66-Dy-164
 -0.053 To 0.000 %



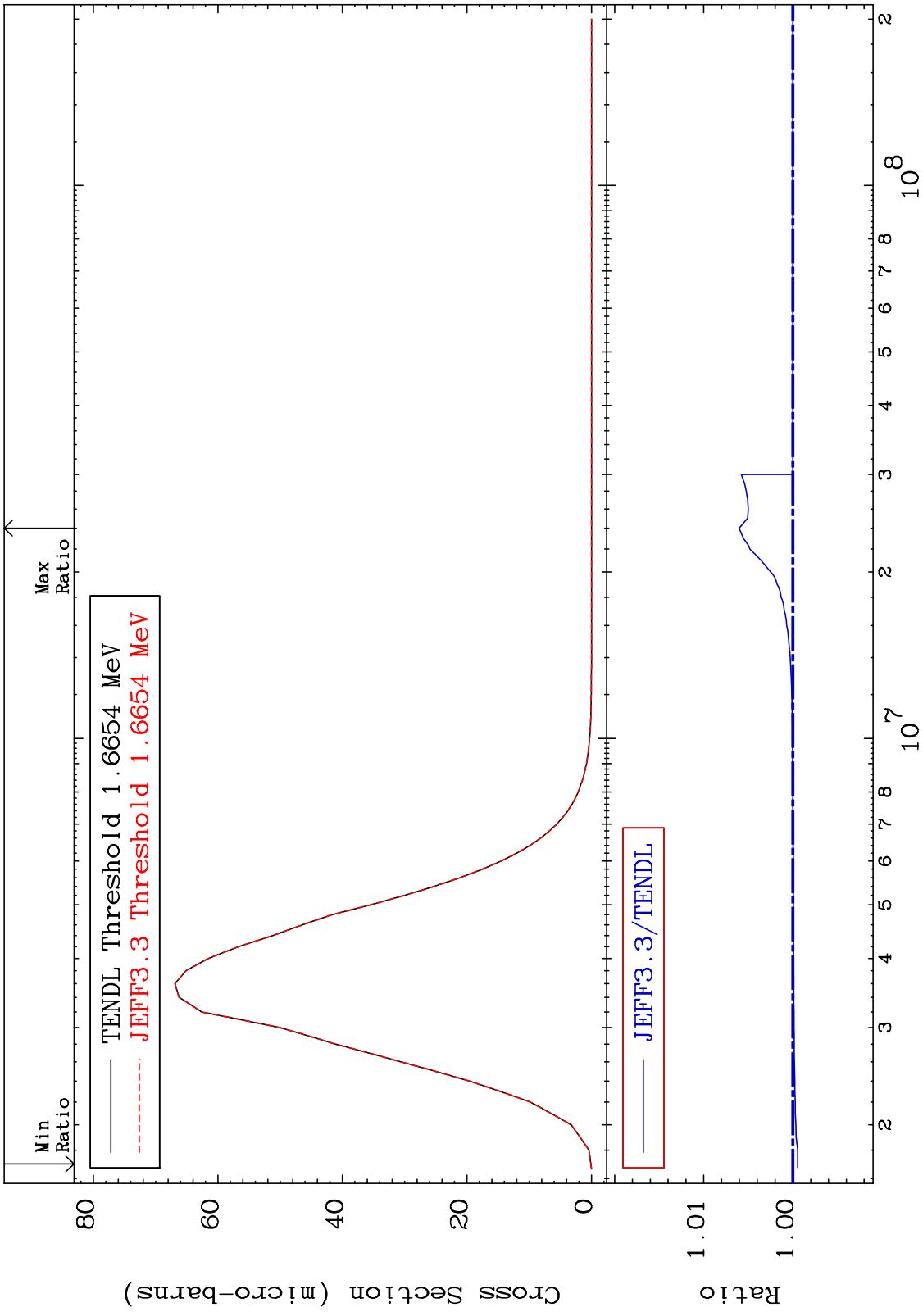
MAT 6649 MT= 71 (n,n') Level Cross Section 66-Dy-164
 -0.034 To 0.603 %



MAT 6649 MT= 72 (n,n') Level Cross Section 66-Dy-164
 -0.024 To 0.000 %



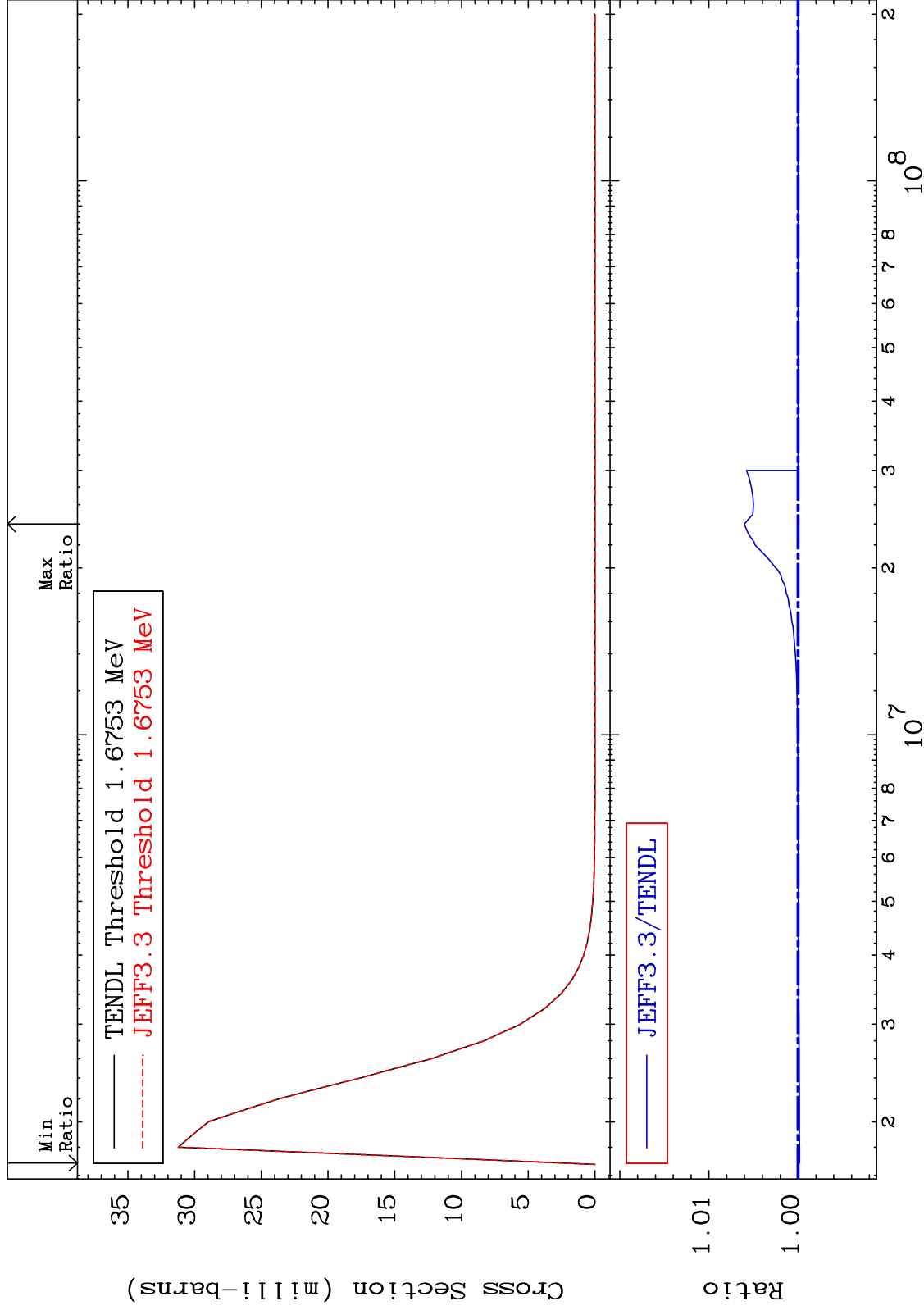
MAT 6649 MT= 73 (n,n') Level Cross Section 66-Dy-164
 -0.054 To 0.603 %



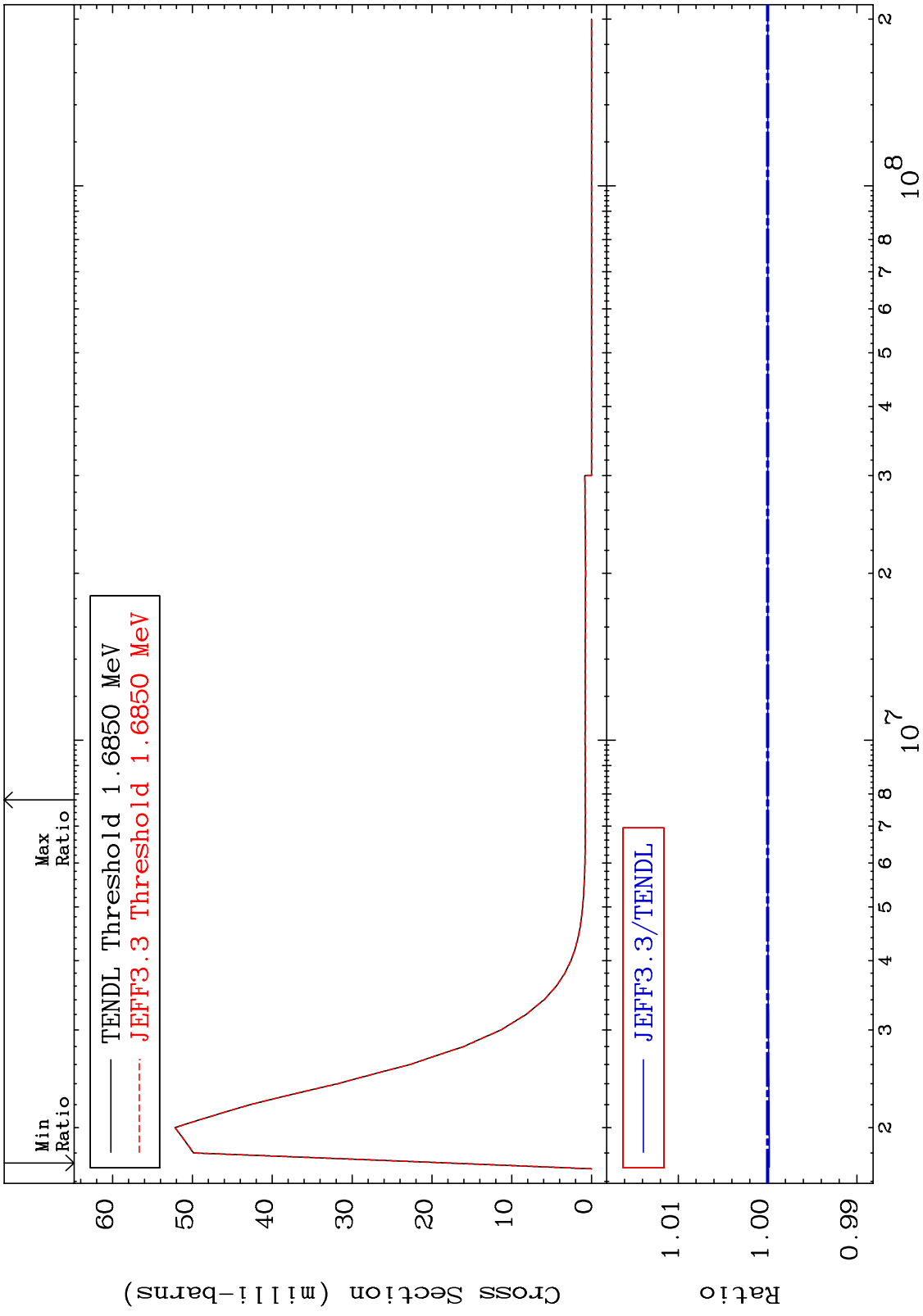
MAT 6649

MT= 74 (n,n') Level
Cross Section

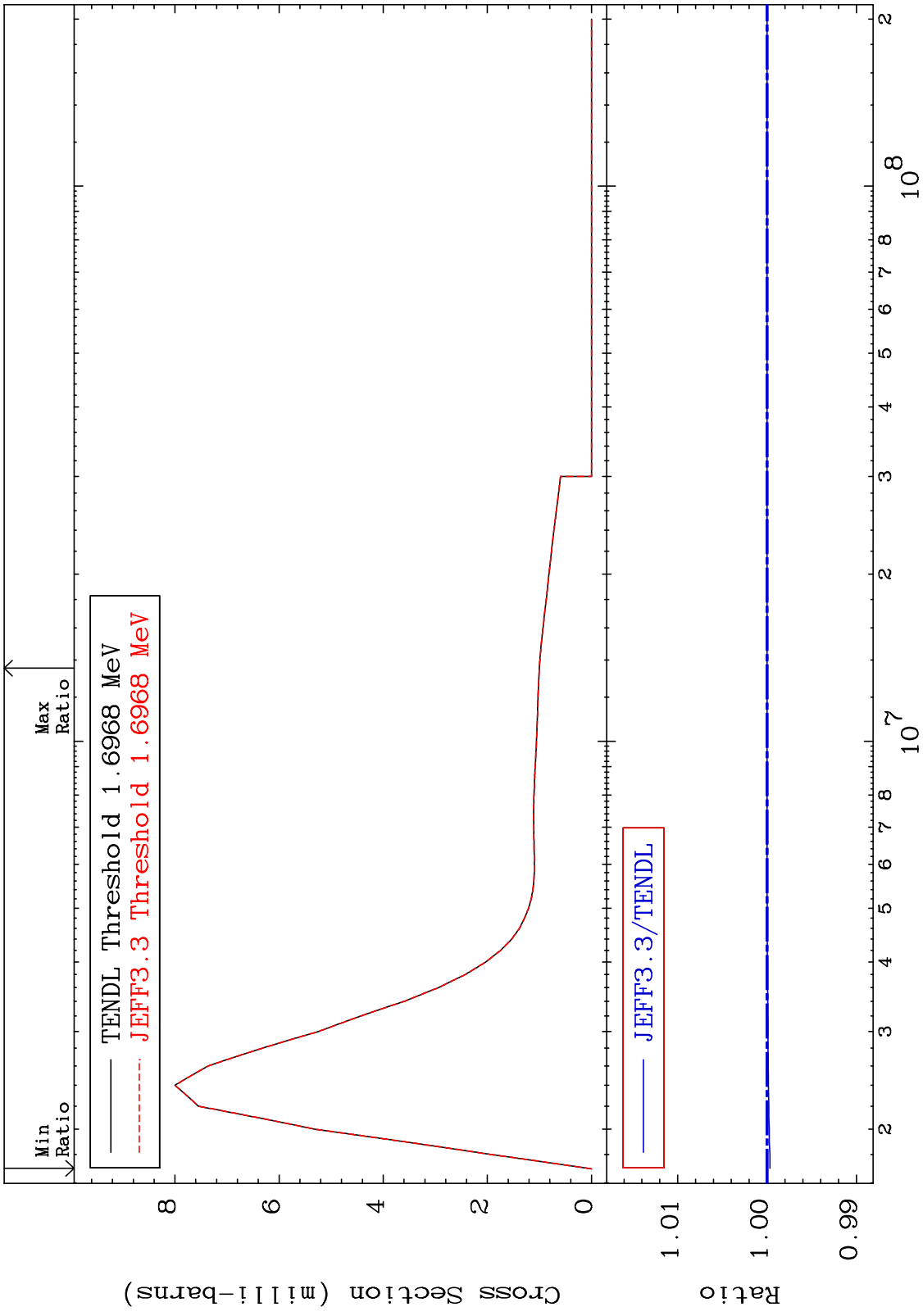
66-Dy-164
-0.016 To 0.604 %



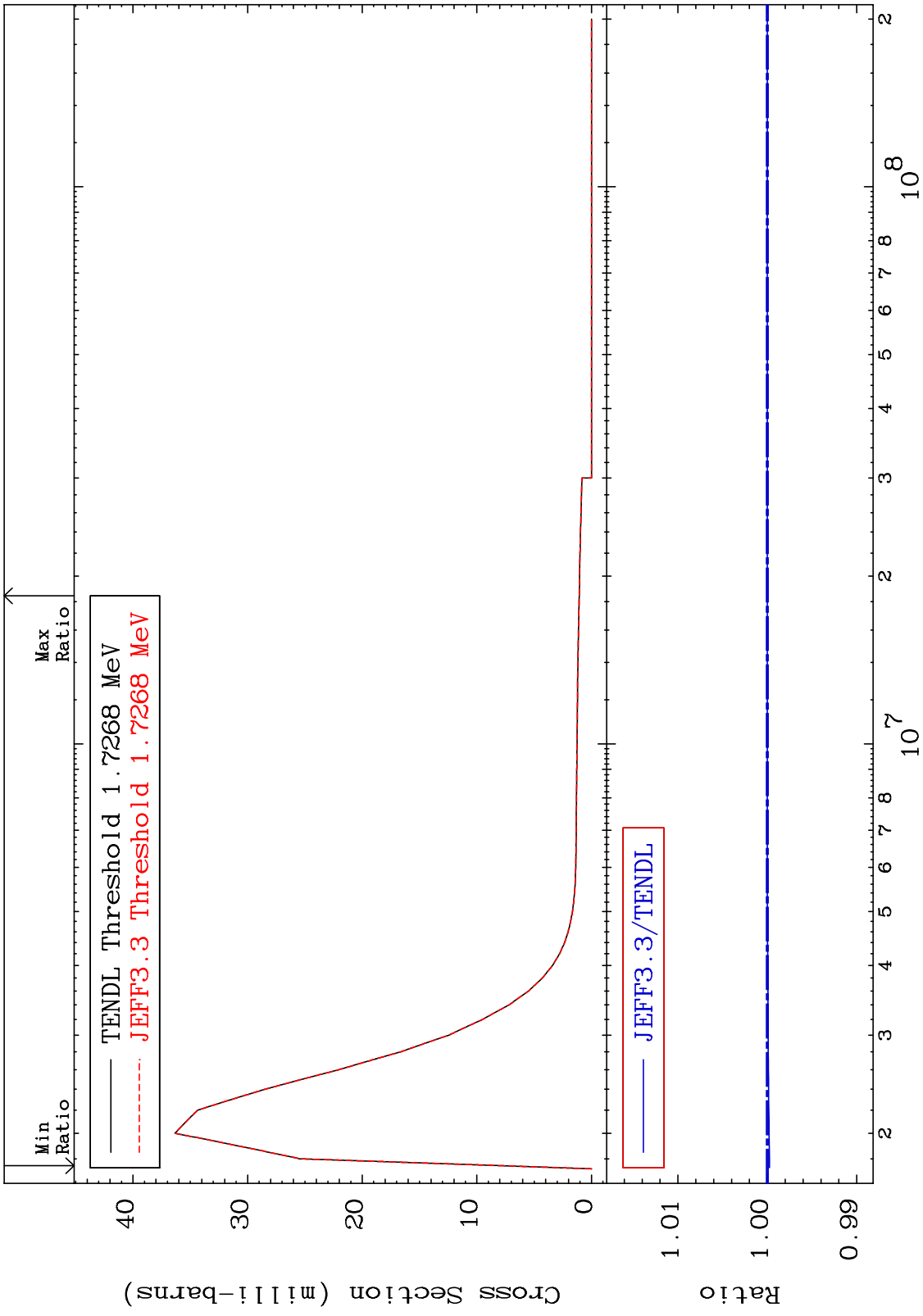
MAT 6649 MT= 75 (n,n') Level Cross Section 66-Dy-164
 -0.018 To 0.000 %



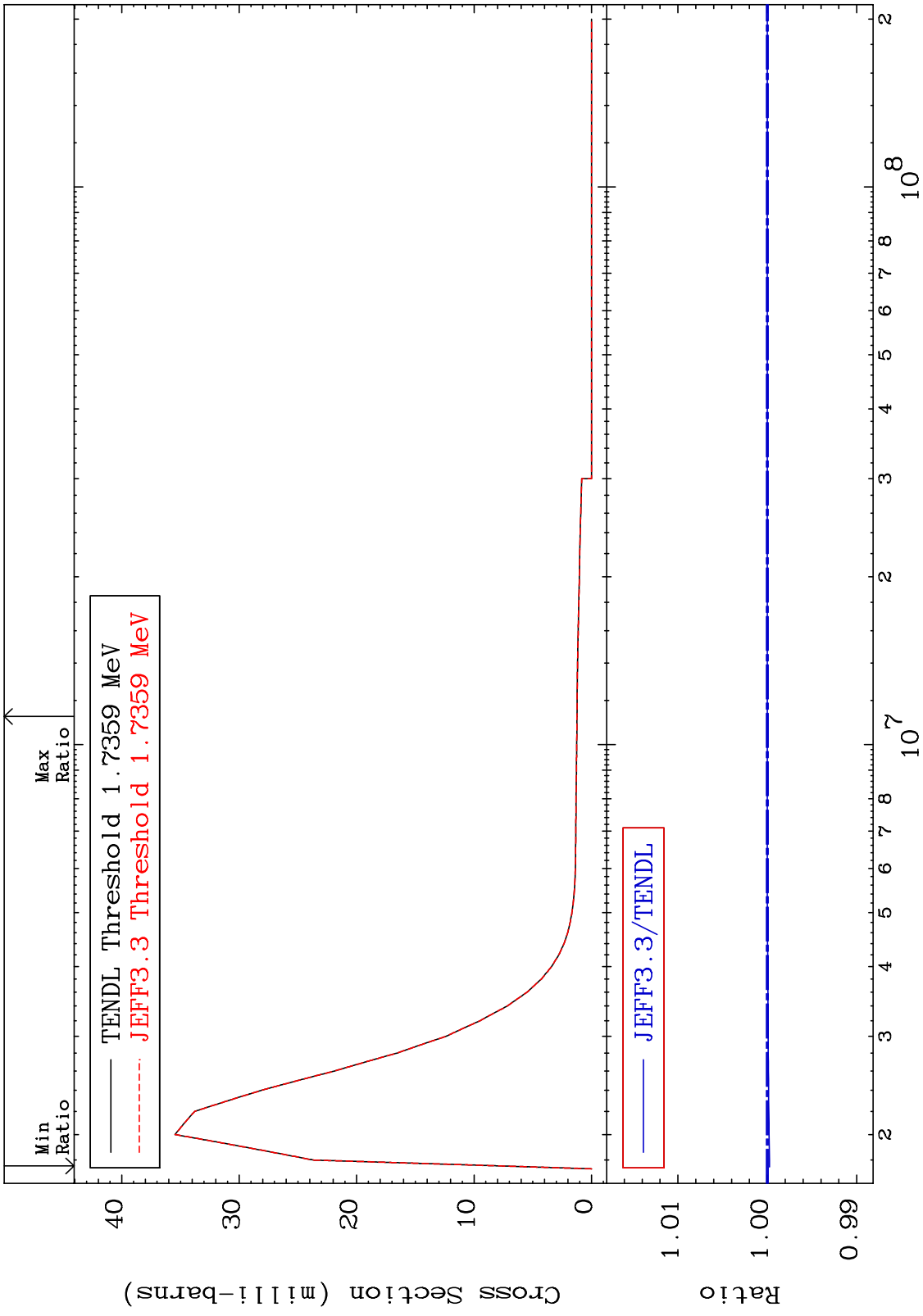
MAT 6649 MT= 76 (n,n') Level Cross Section 66-Dy-164
 -0.031 To 0.000 %



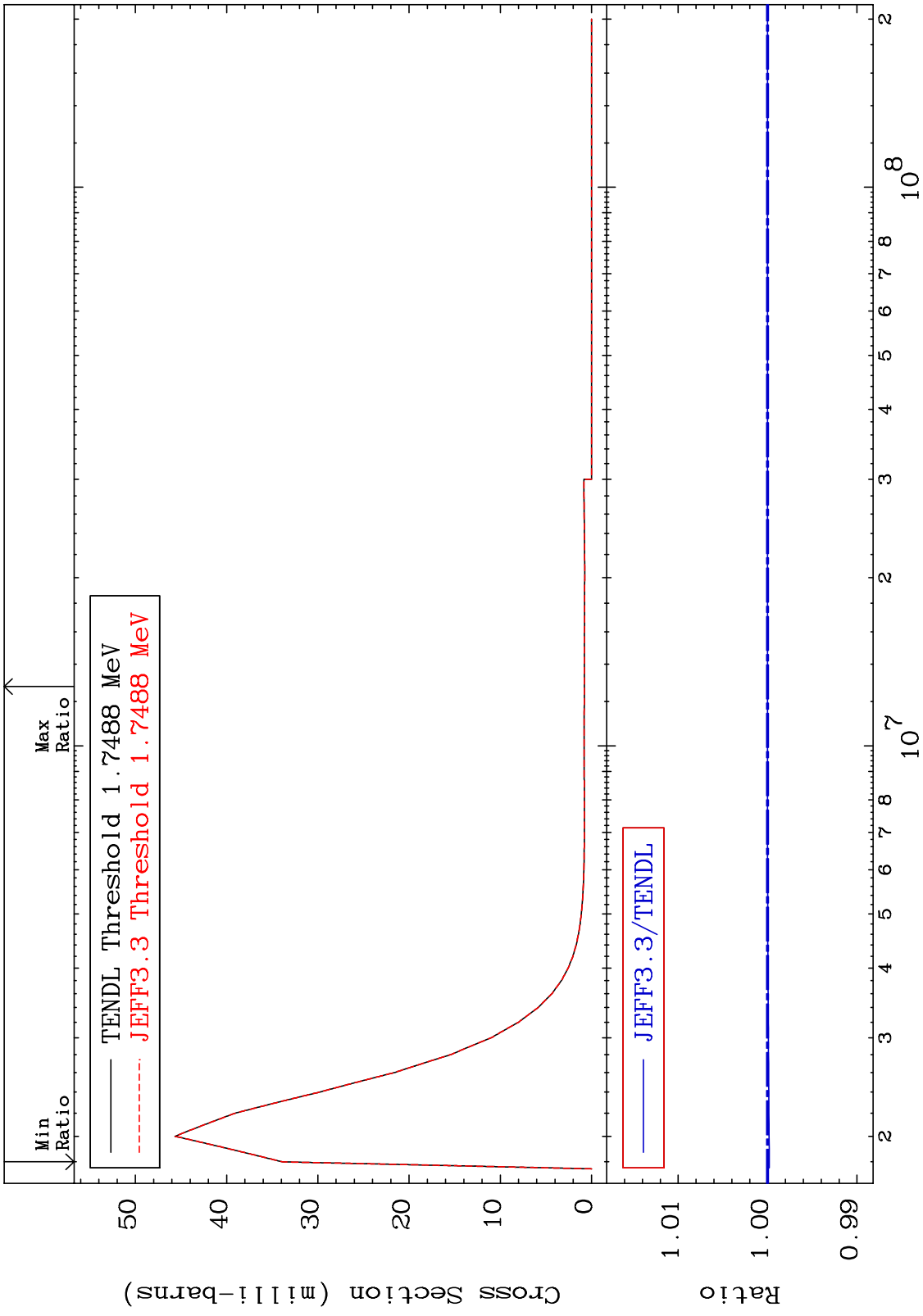
MAT 6649 MT= 77 (n,n') Level 66-Dy-164
 Cross Section -0.025 To 0.000 %



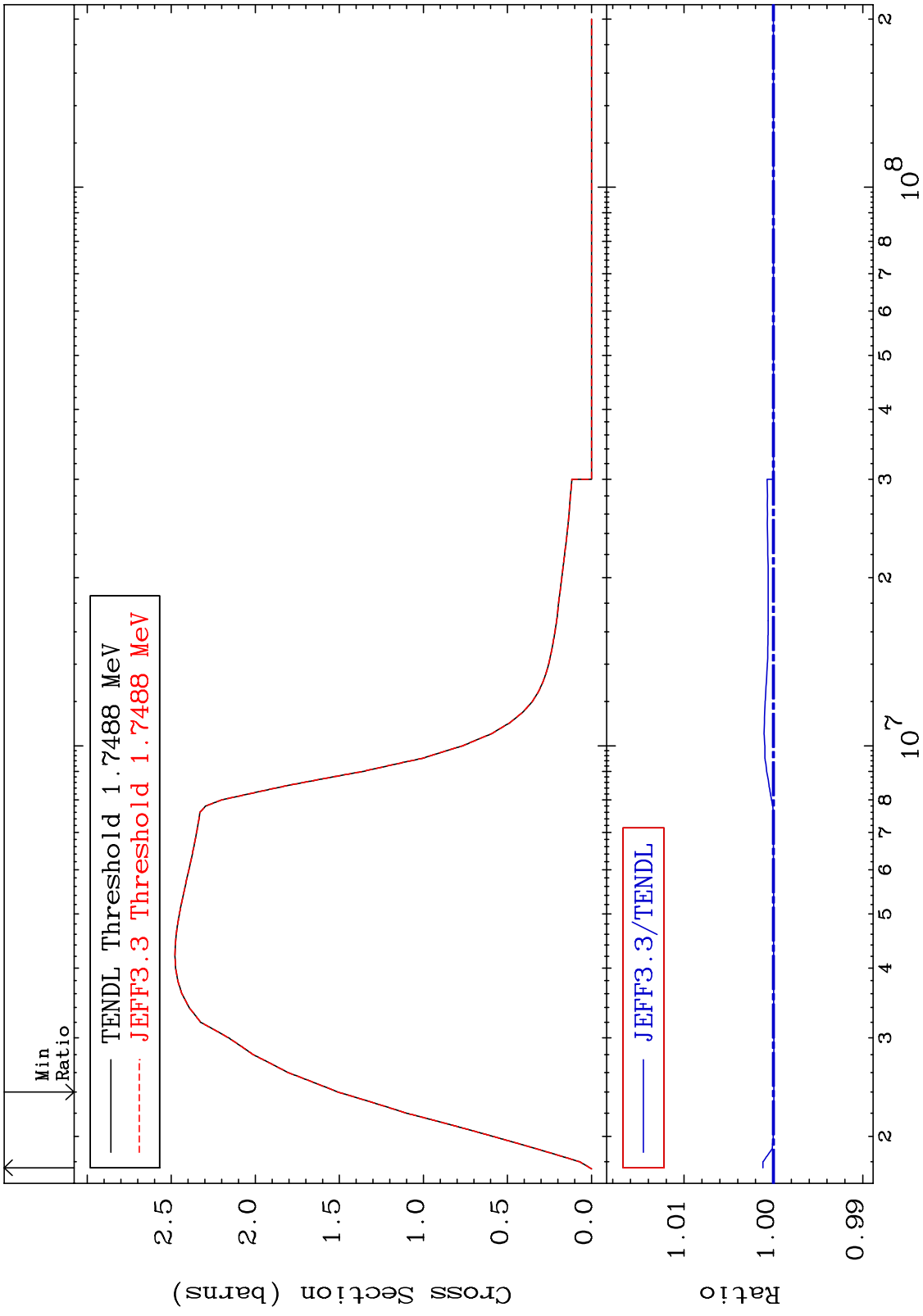
MAT 6649 MT= 78 (n,n') Level Cross Section 66-Dy-164
 -0.025 To 0.000 %



MAT 6649 MT= 79 (n,n') Level Cross Section 66-Dy-164
 -0.019 To 0.000 %



MAT 6649 (n,n') Continuum Cross Section 66-Dy-164 -0.005 To 0.117 %



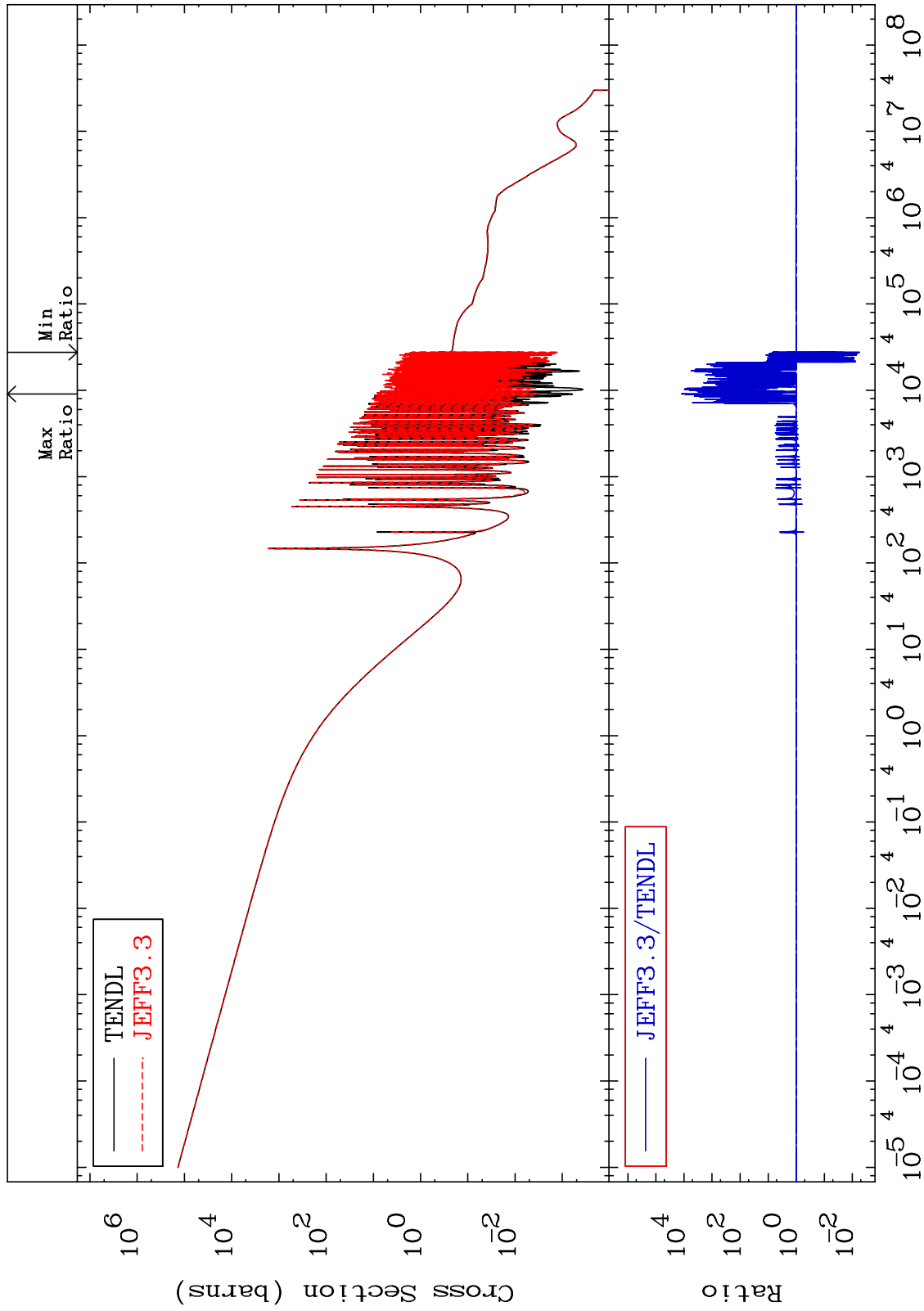
MAT 6649

(n, γ)

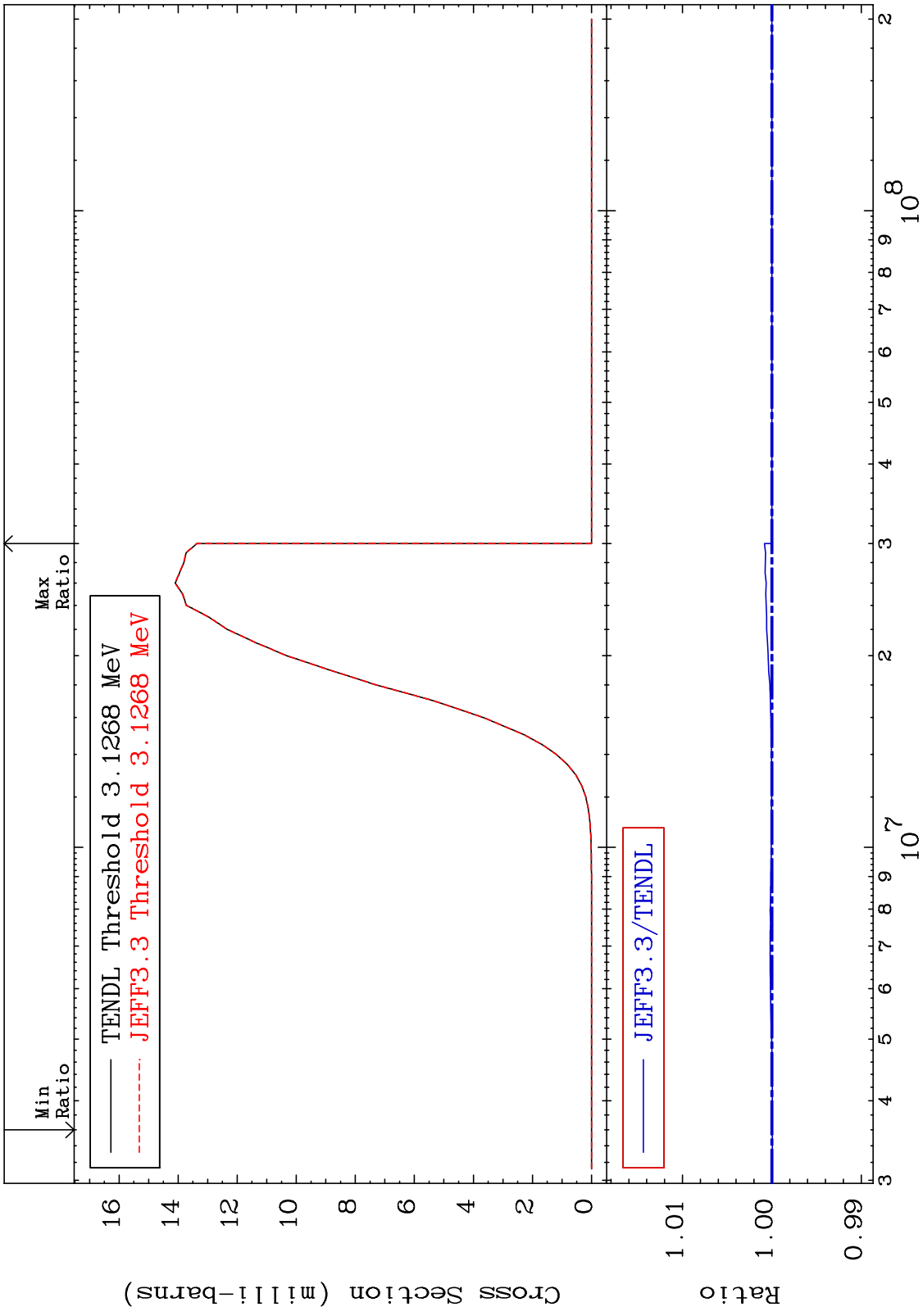
66-Dy-164

Cross Section

-99.45 To 9999. %

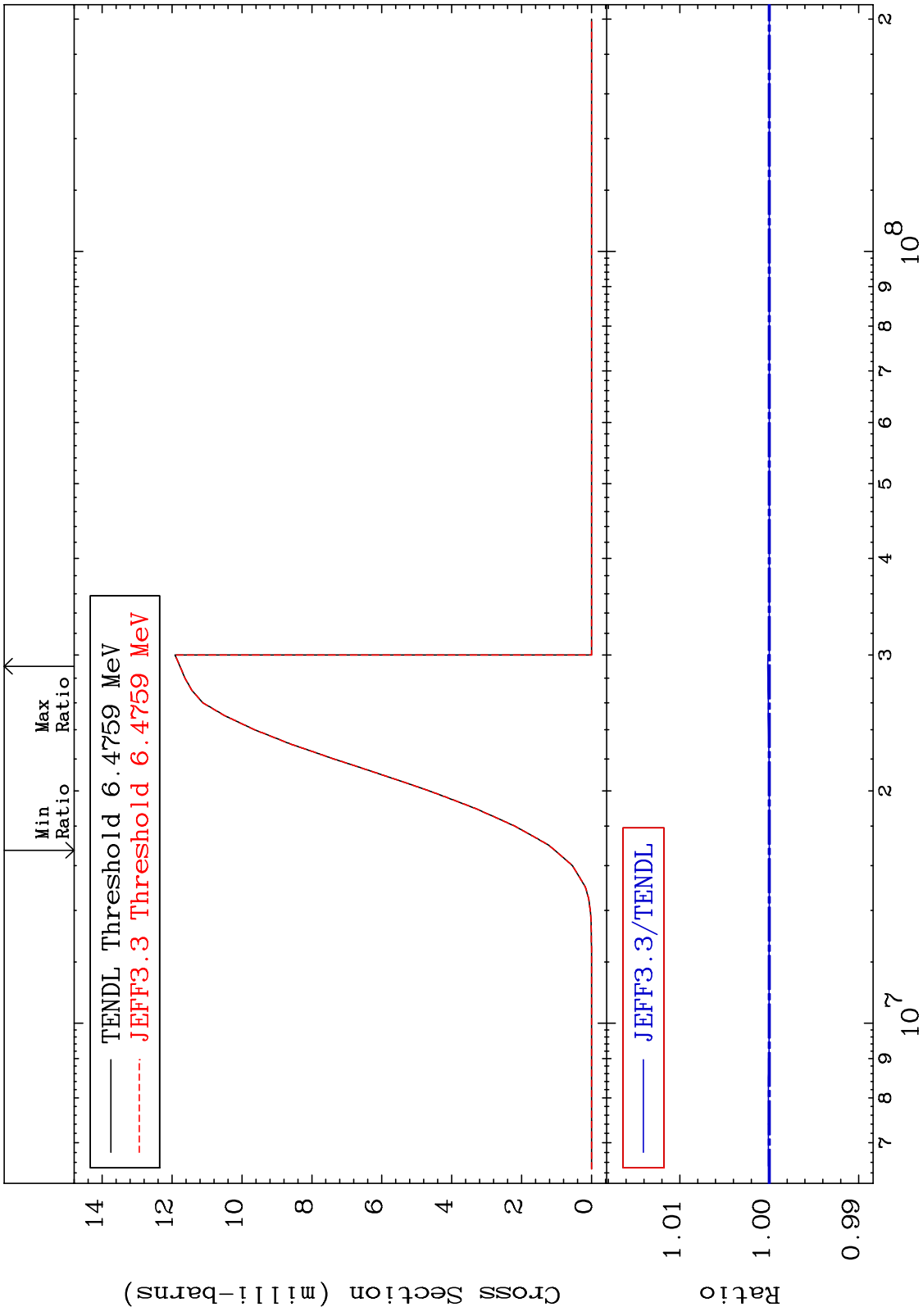


MAT 6649 (n,p) Cross Section 66-Dy-164 -0.006 To 0.082 %



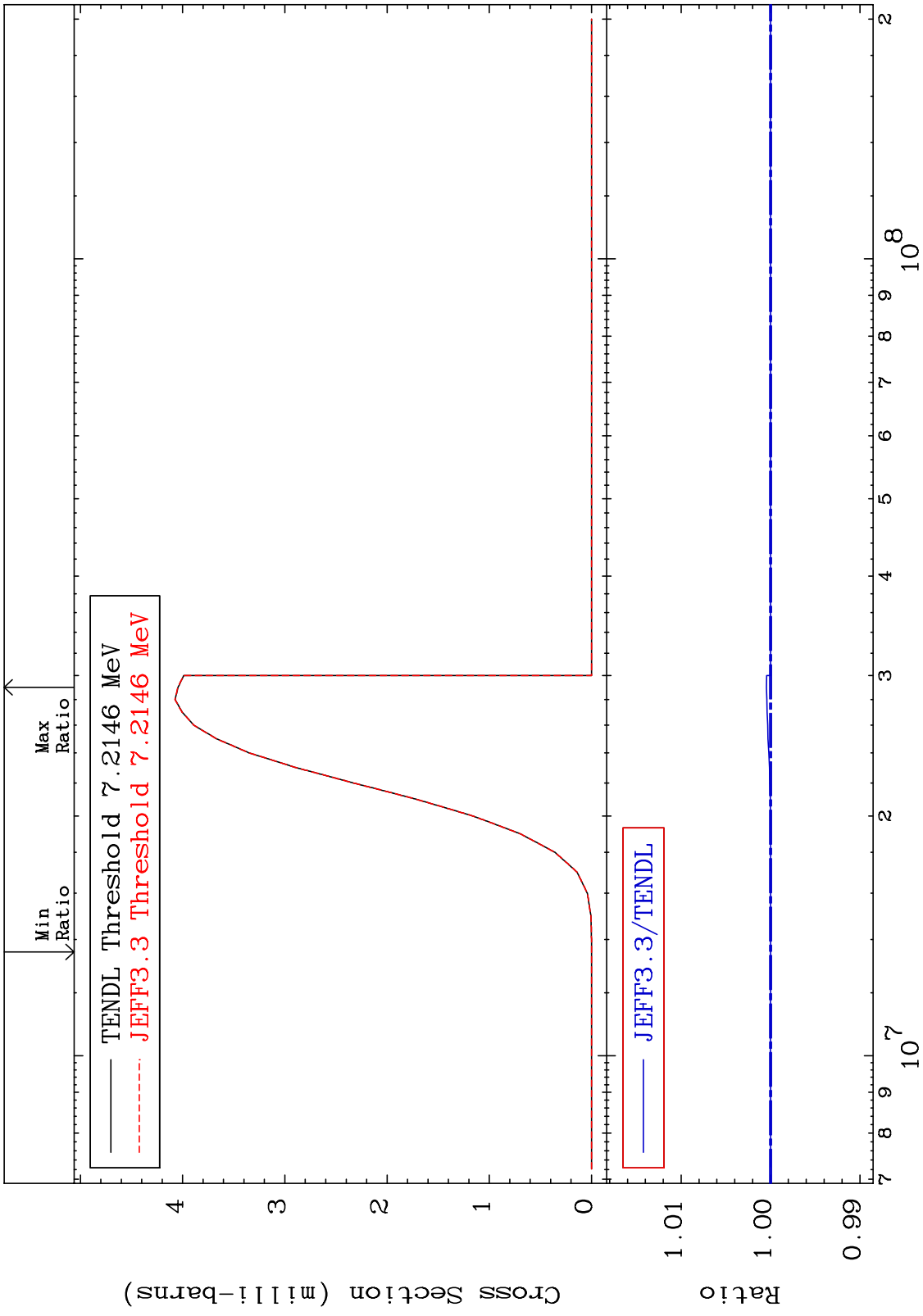
MAT 6649 66-Dy-164
To 0.017 %

(n,d)
 Cross Section

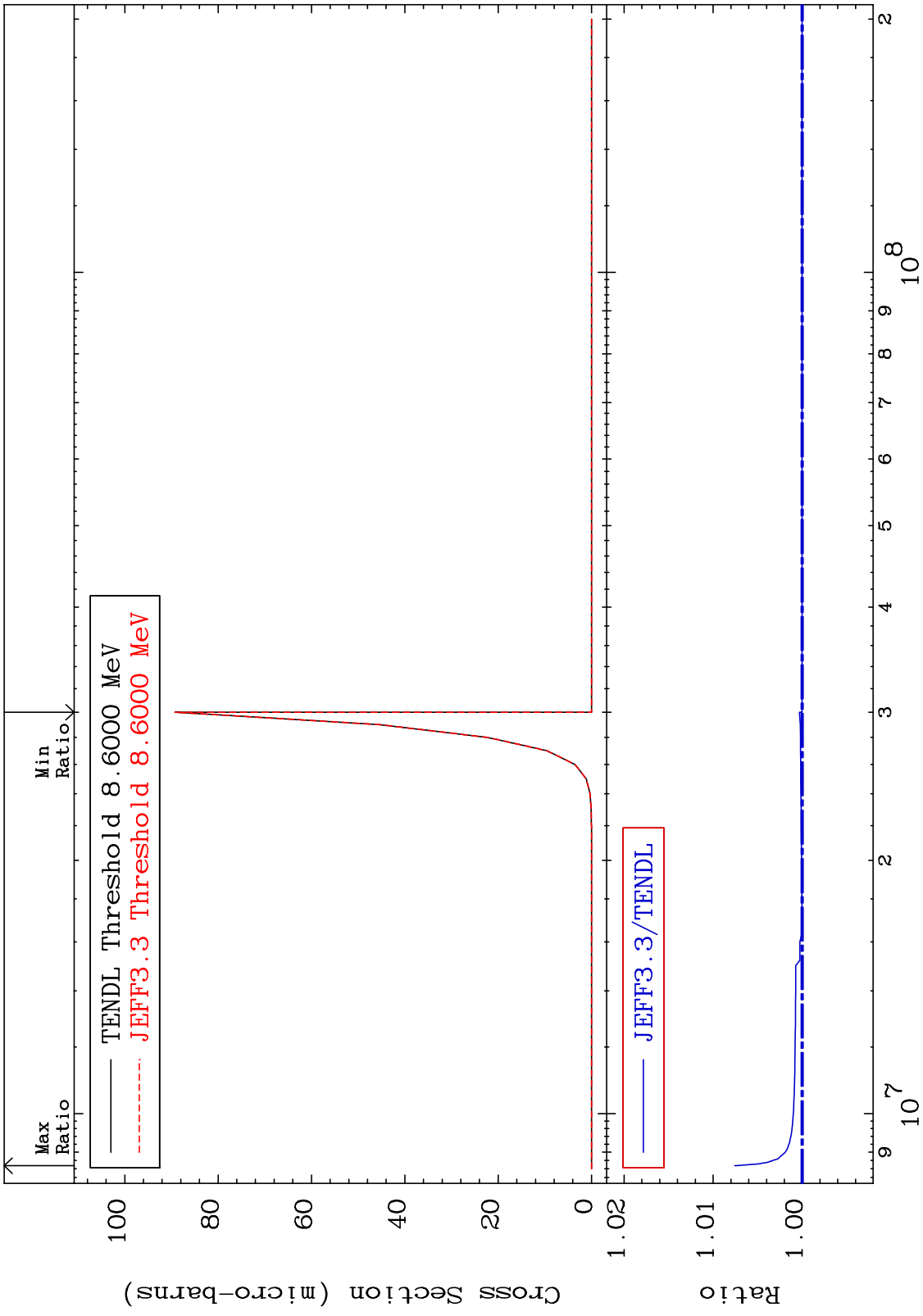


51 66-Dy-164
Incident Energy (eV)

MAT 6649 (n,t) Cross Section 66-Dy-164 To 0.047 %



MAT 6649 (n, He-3) Cross Section 66-Dy-164 To 0.757 %
 0.000



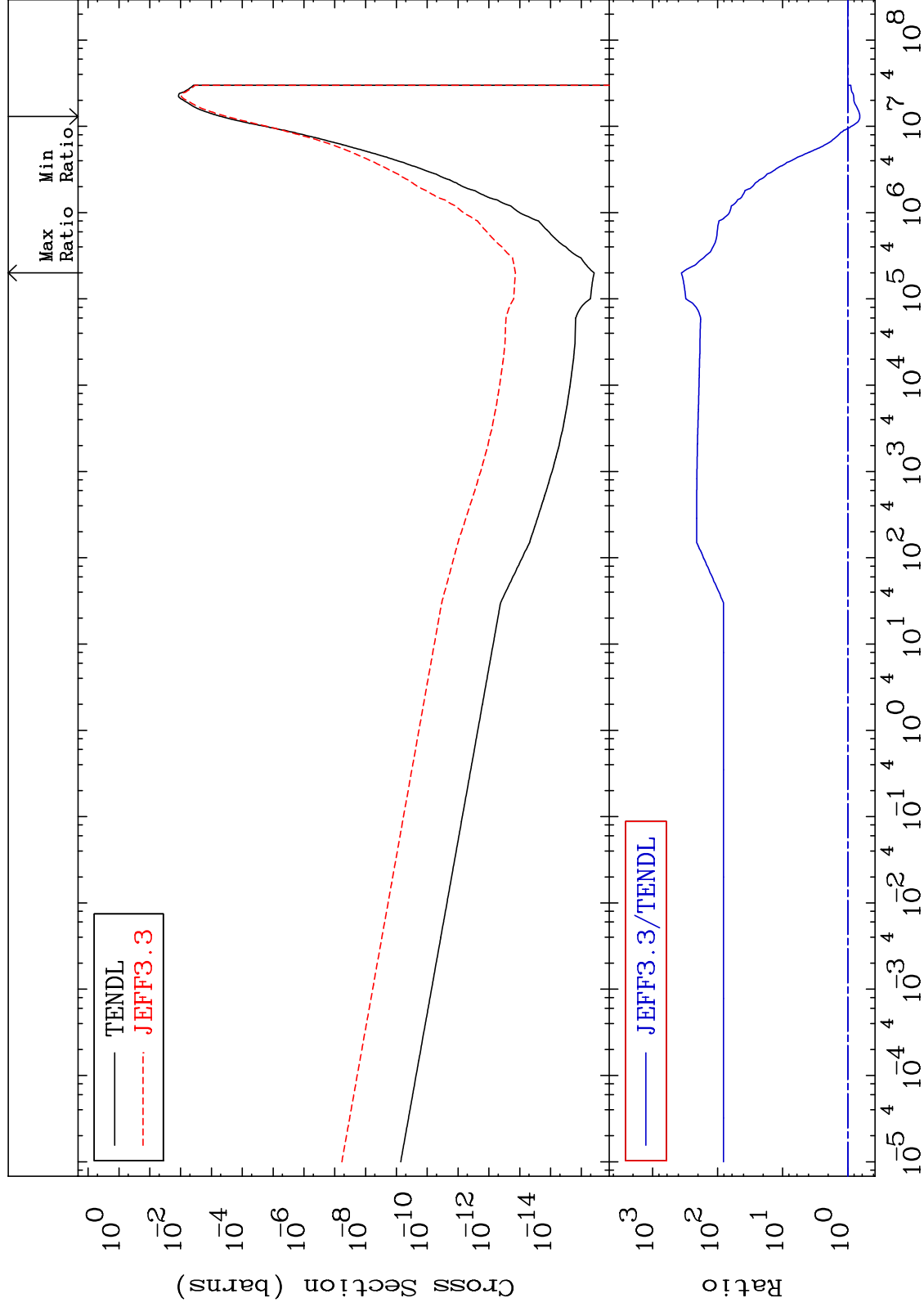
MAT 6649

(n, α)

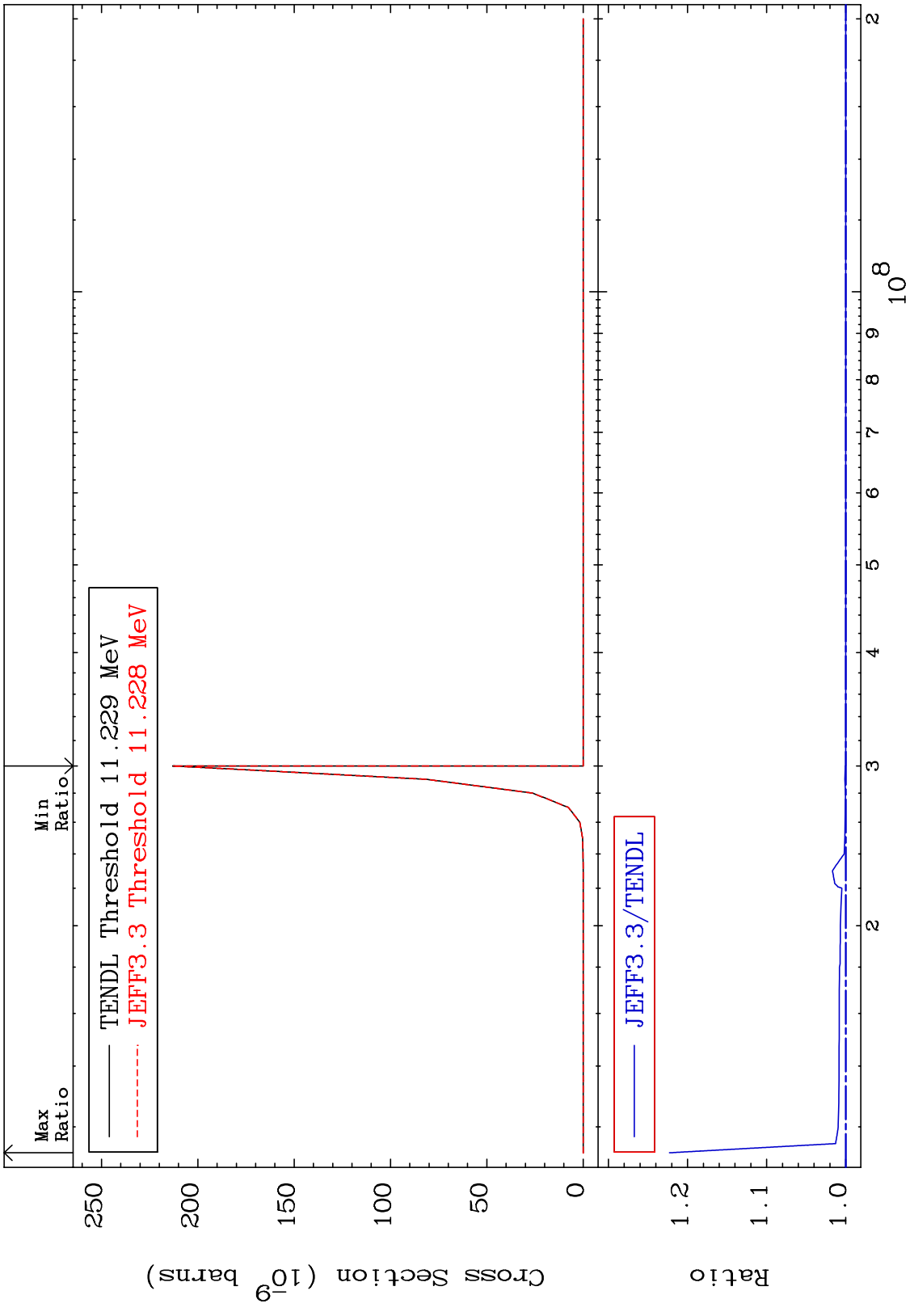
66-Dy-164

Cross Section

-34.89 To 9999. %



MAT 6649 (n,2p) Cross Section 66-Dy-164 To 22.28 %



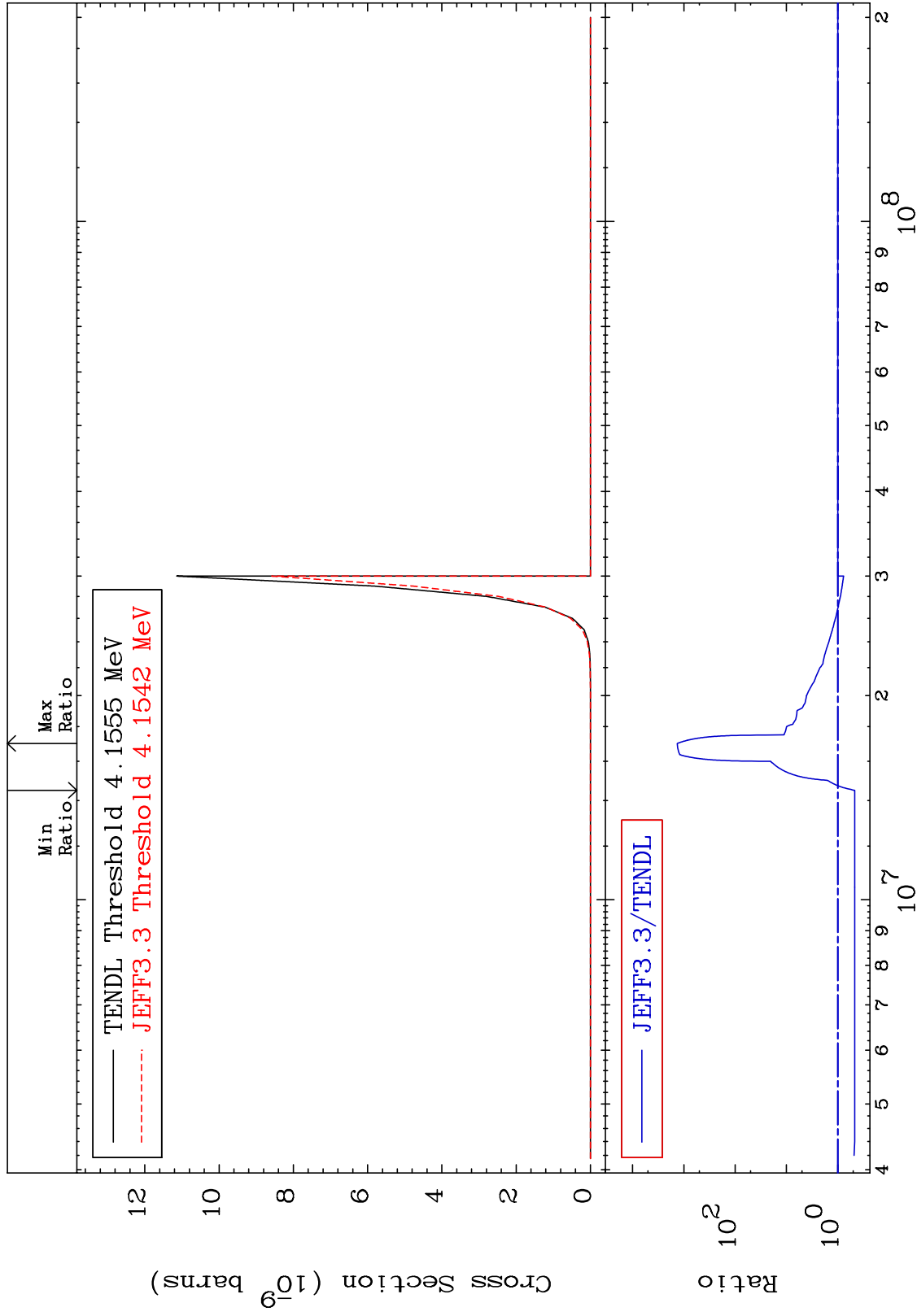
MAT 6649

(n,p) α

66-Dy-164

Cross Section

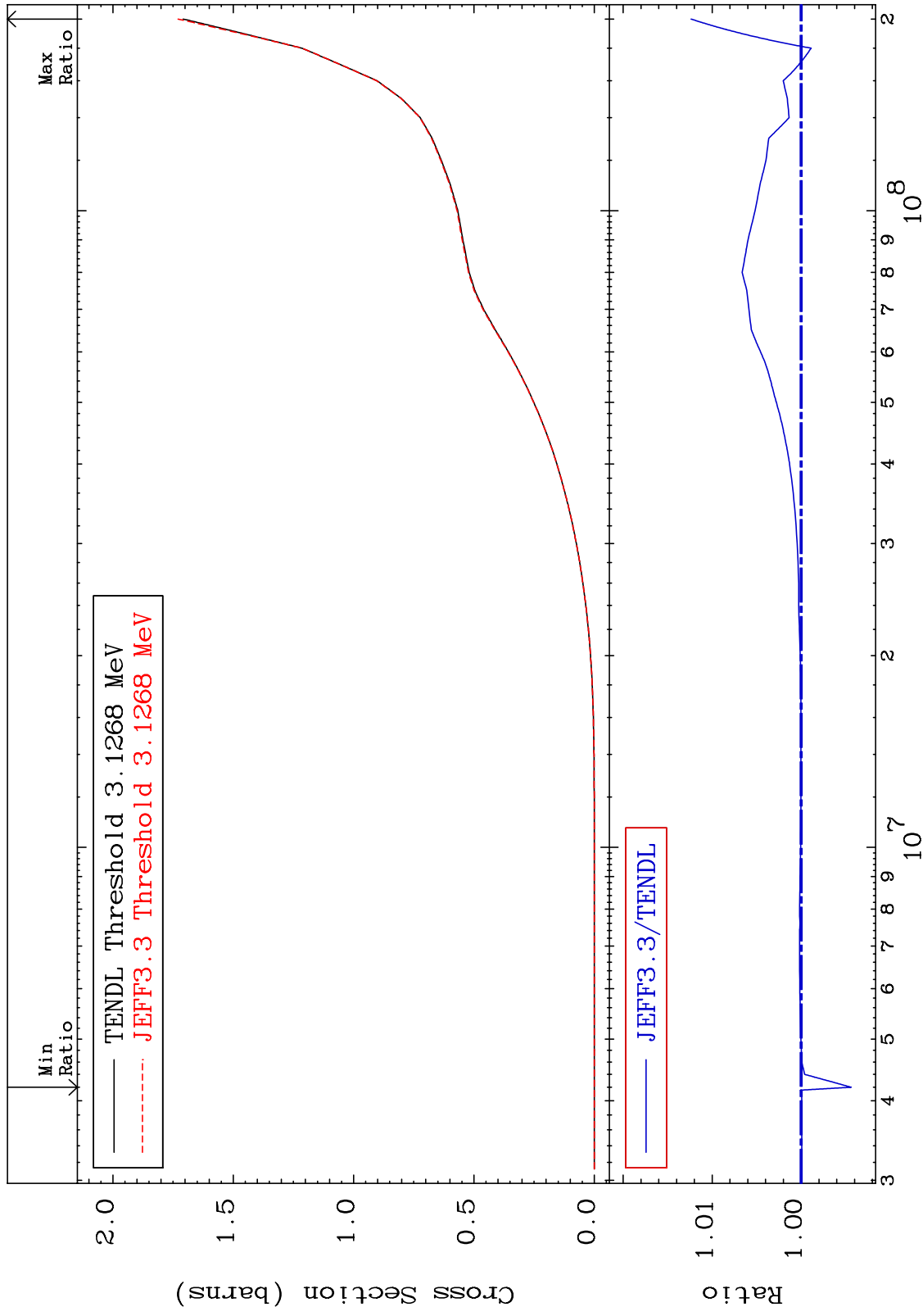
-53.41 To 9999. %



MAT 6649

Hydrogen Production
Cross Section

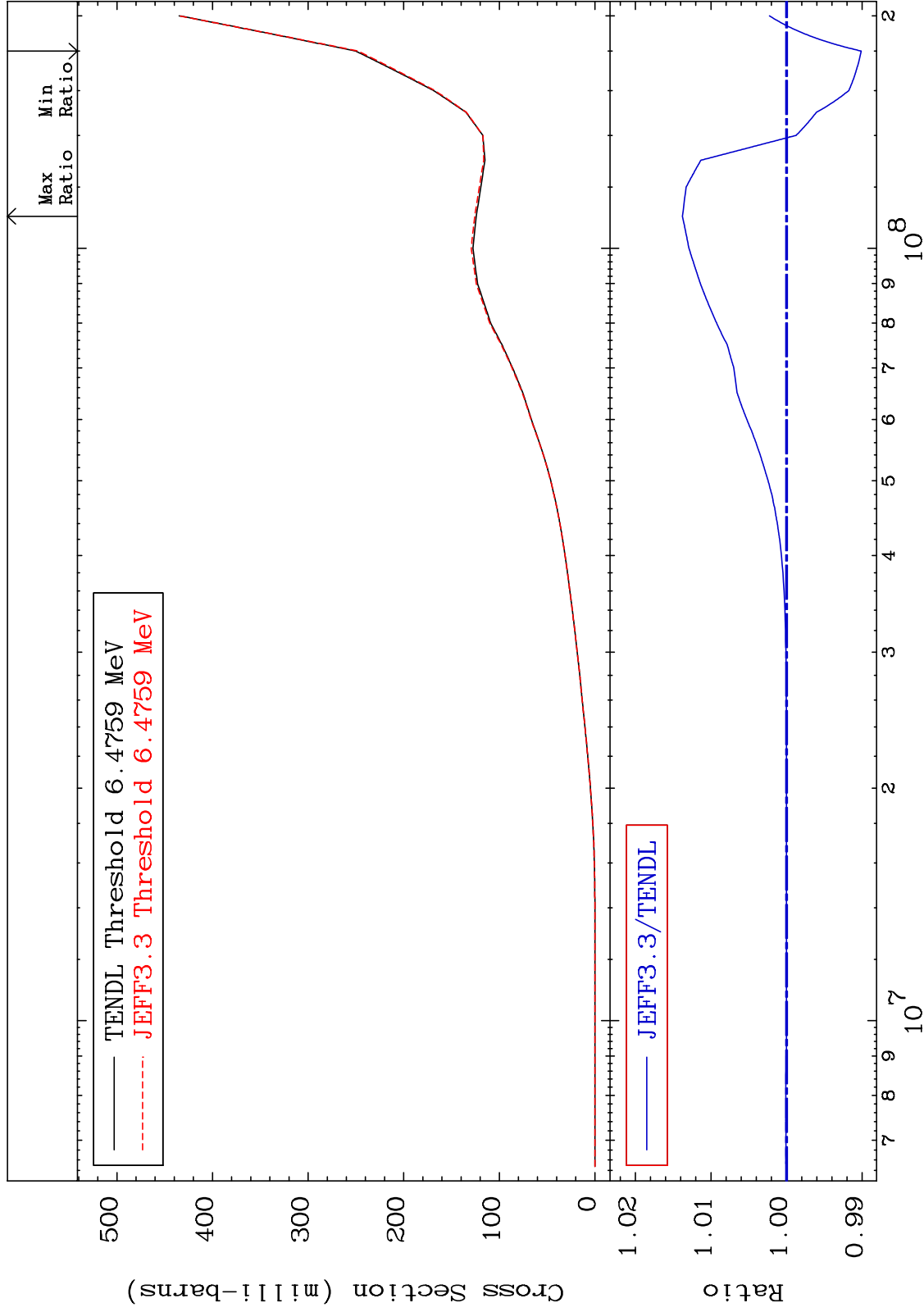
66-Dy-164
-0.560 To 1.238 %



MAT 6649

Deuterium Production
Cross Section

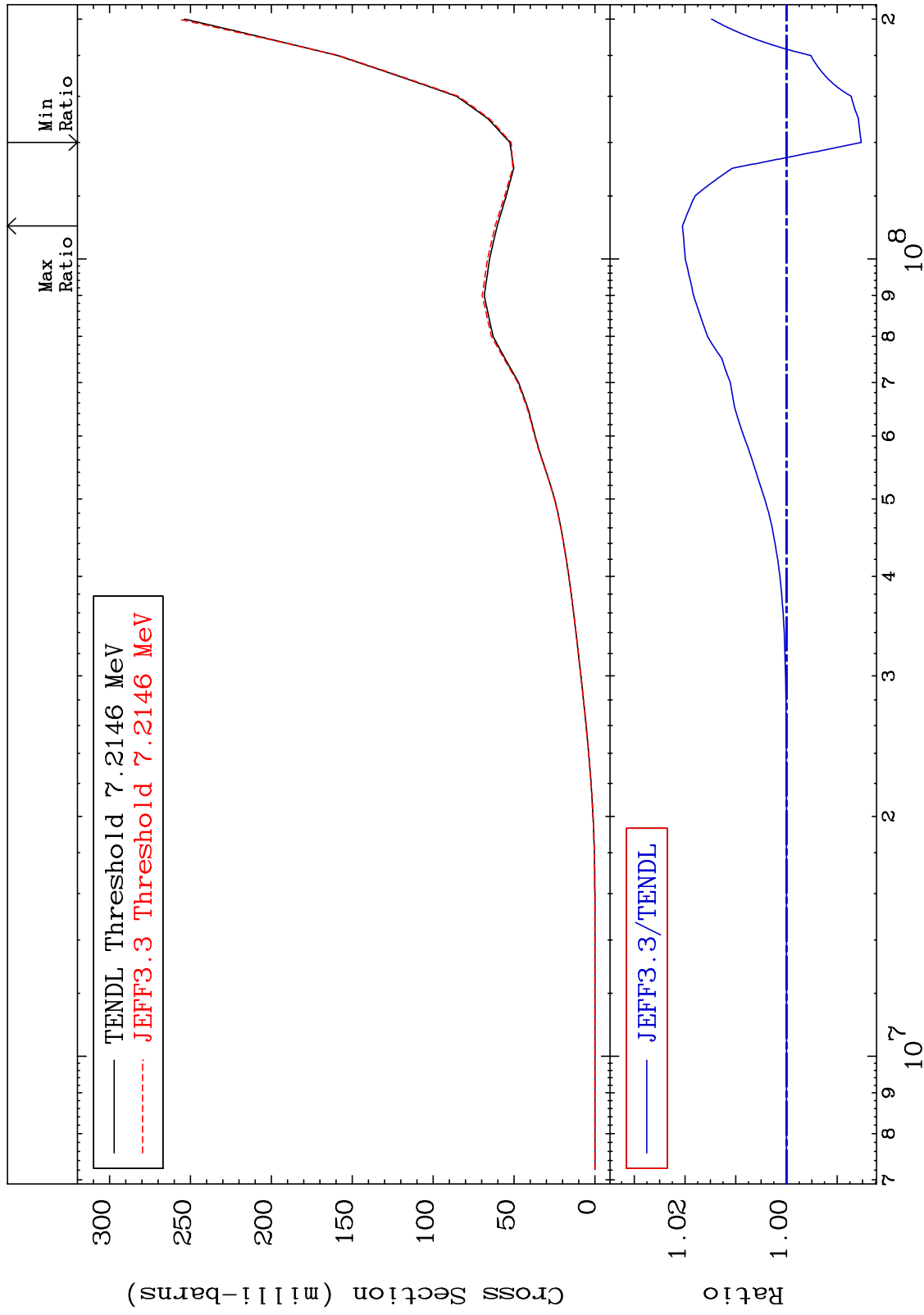
66-Dy-164
-0.989 To 1.377 %



MAT 6649

Tritium Production
Cross Section

66-Dy-164
-1.473 To 2.050 %



59

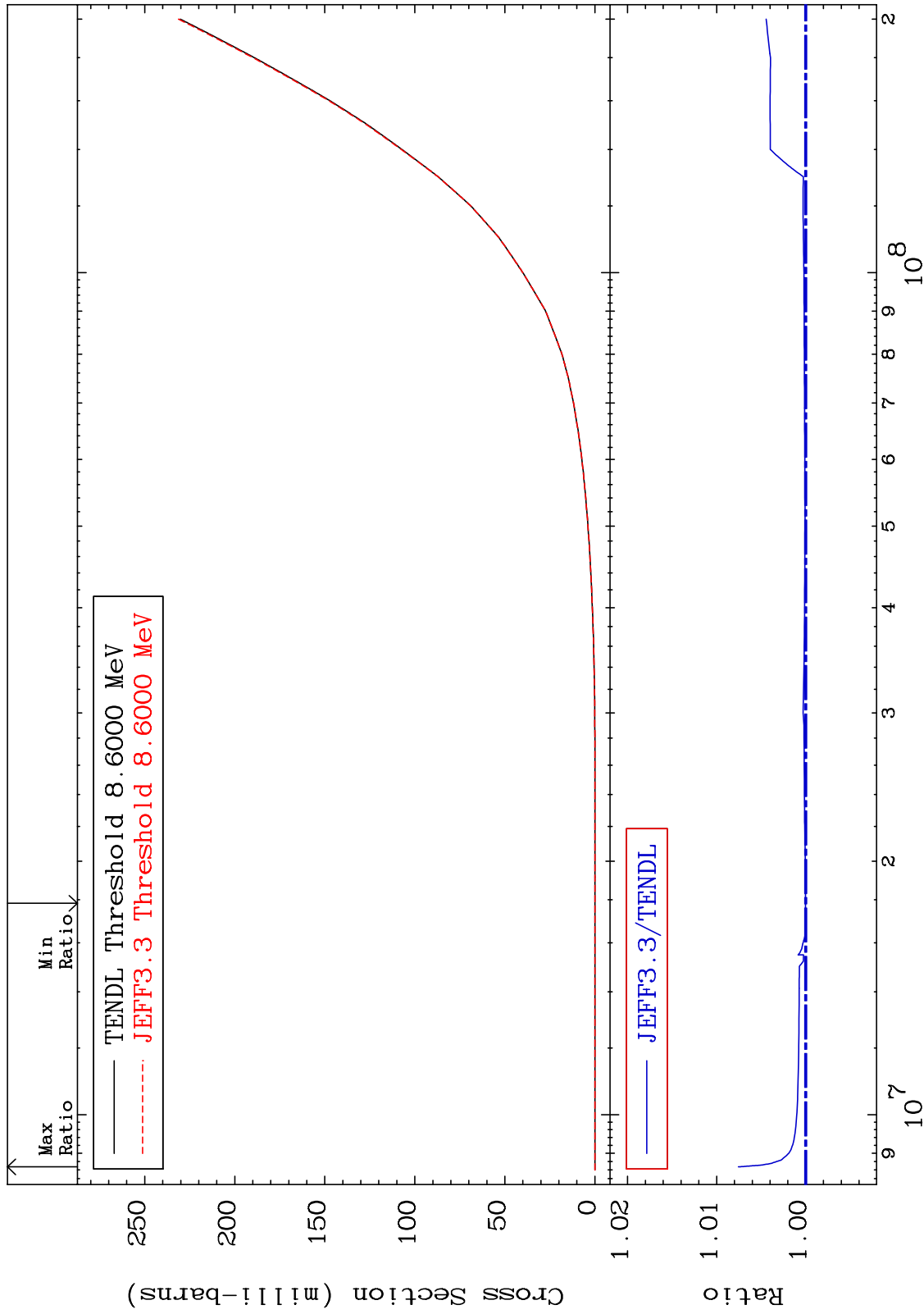
Incident Energy (eV)

66-Dy-164

MAT 6649

He-3 Production
Cross Section

66-Dy-164
To 0.757 %



60

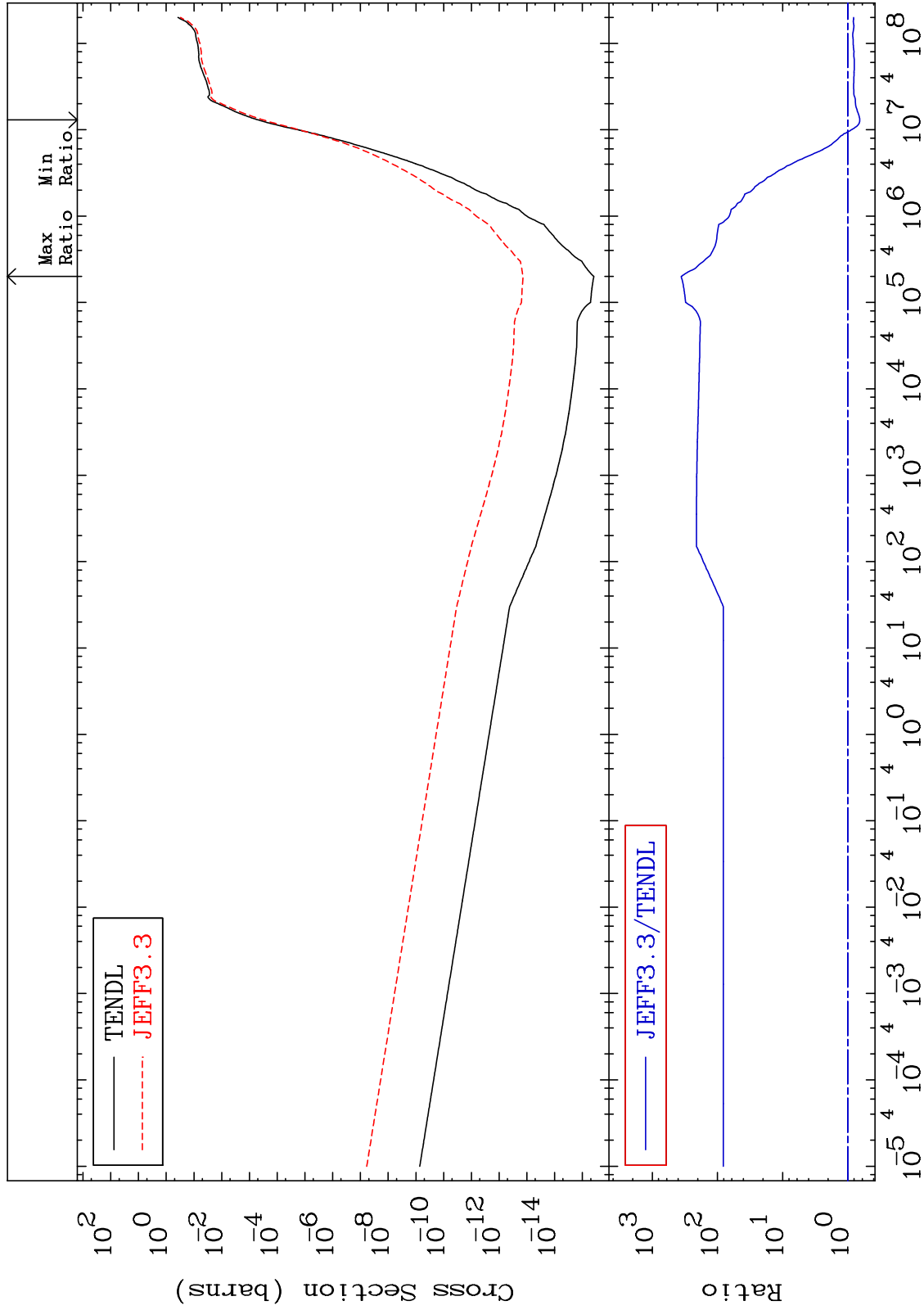
Incident Energy (eV)

66-Dy-164

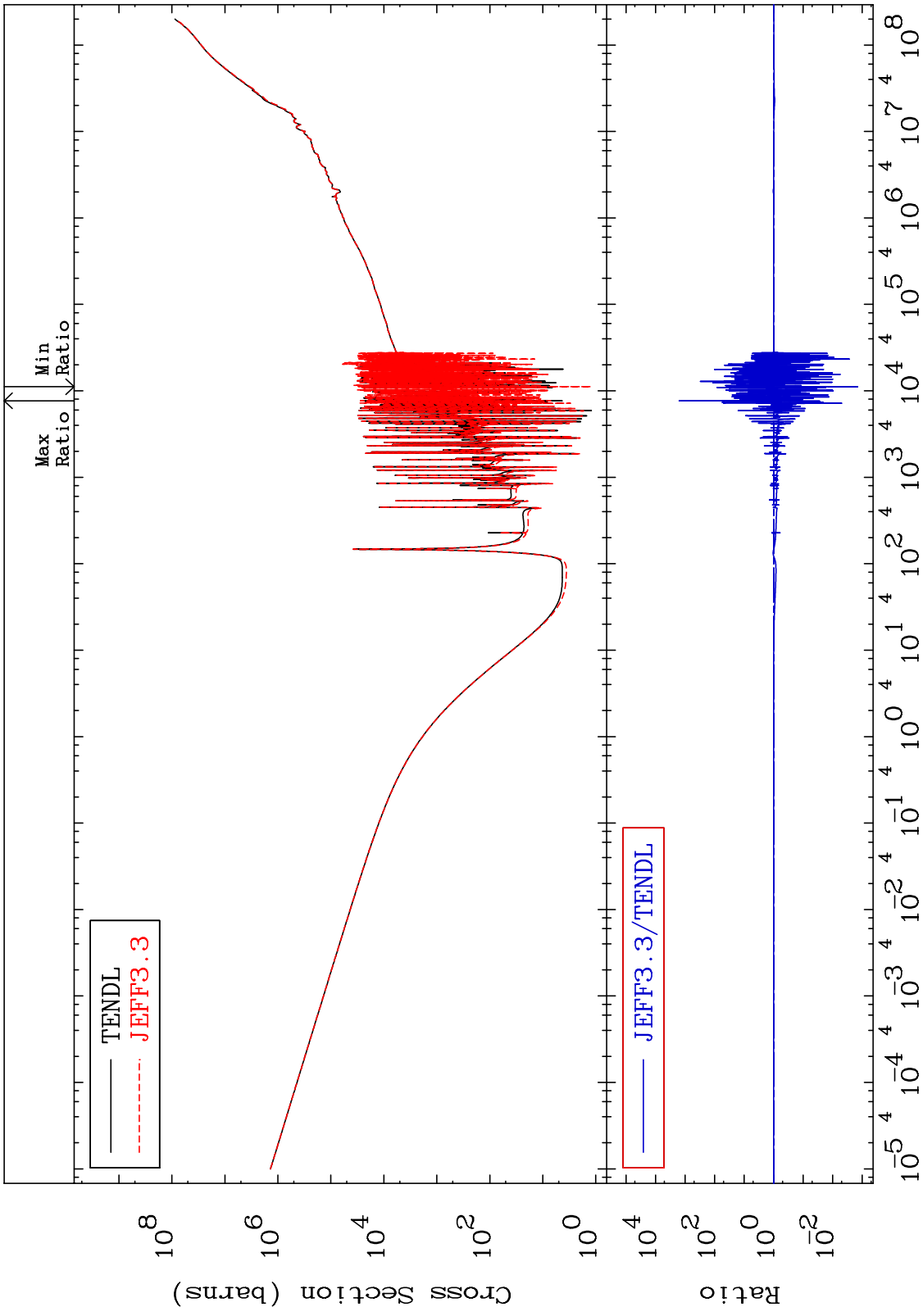
MAT 6649

He-4 Production
Cross Section

66-Dy-164
-34.48 To 9999. %



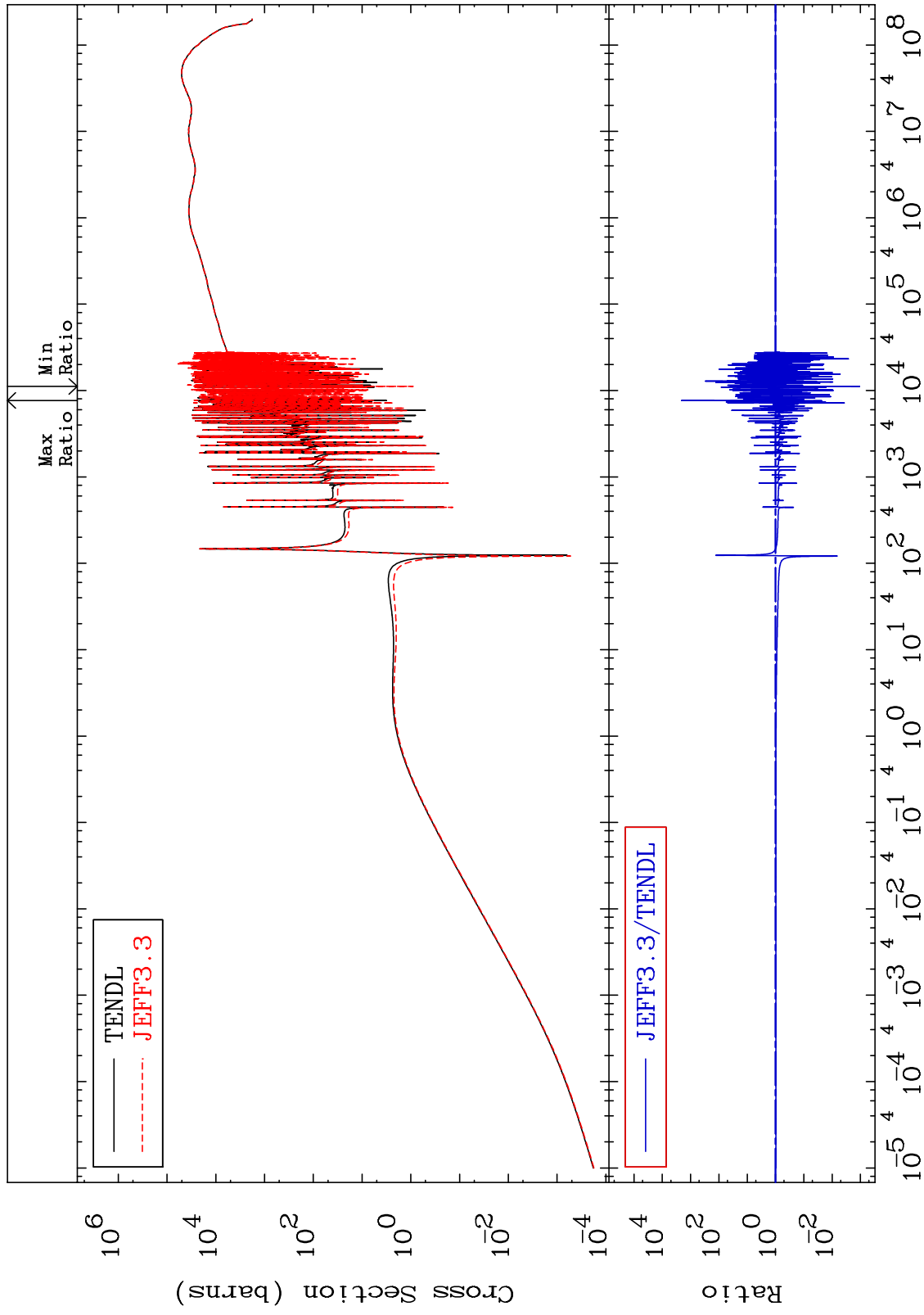
MAT 6649 Kerma total (eV-barns) 66-Dy-164
 Cross Section -99.86 To 9999. %



MAT 6649

Kerma elastic
Cross Section

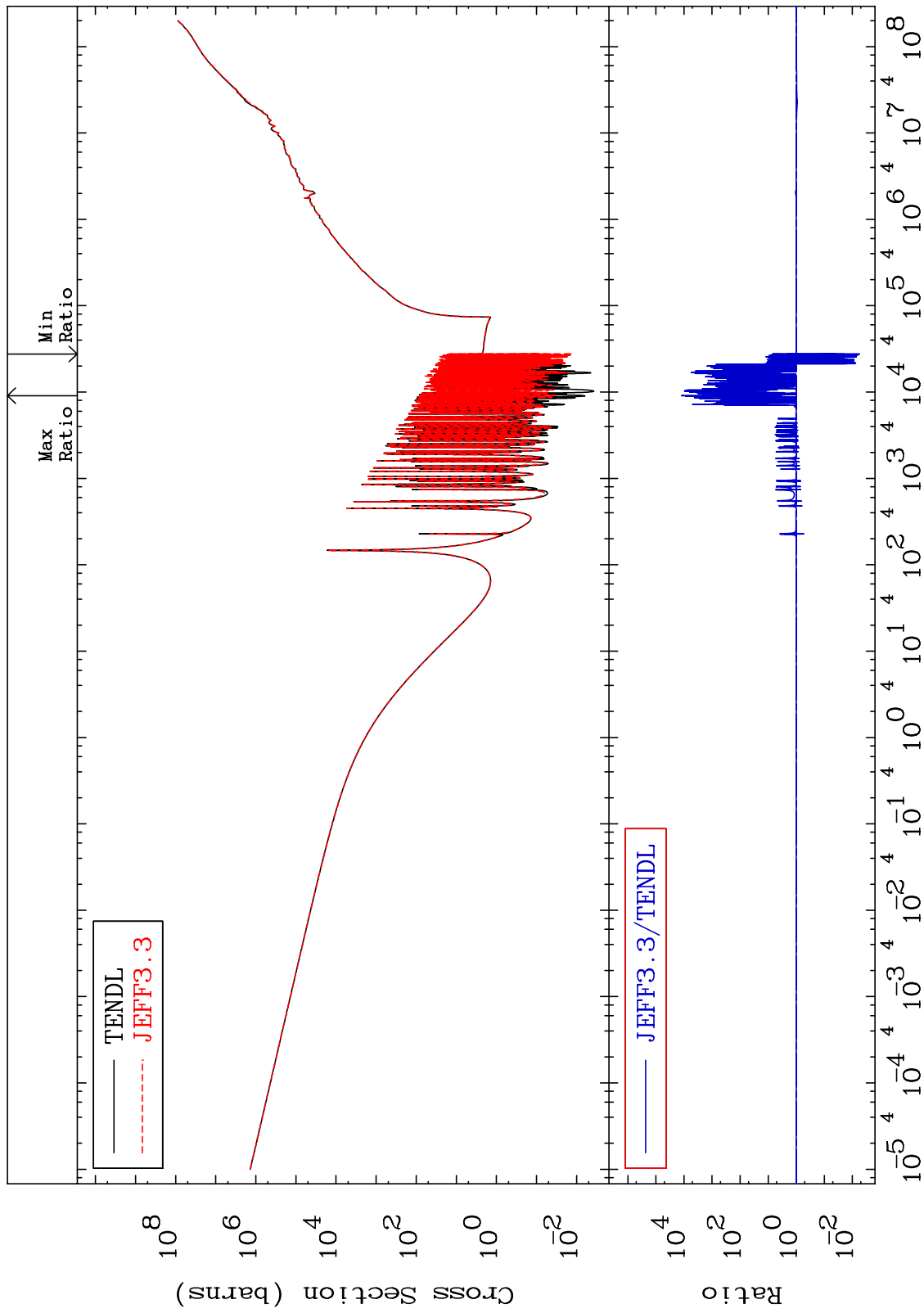
66-Dy-164
-99.89 To 9999. %



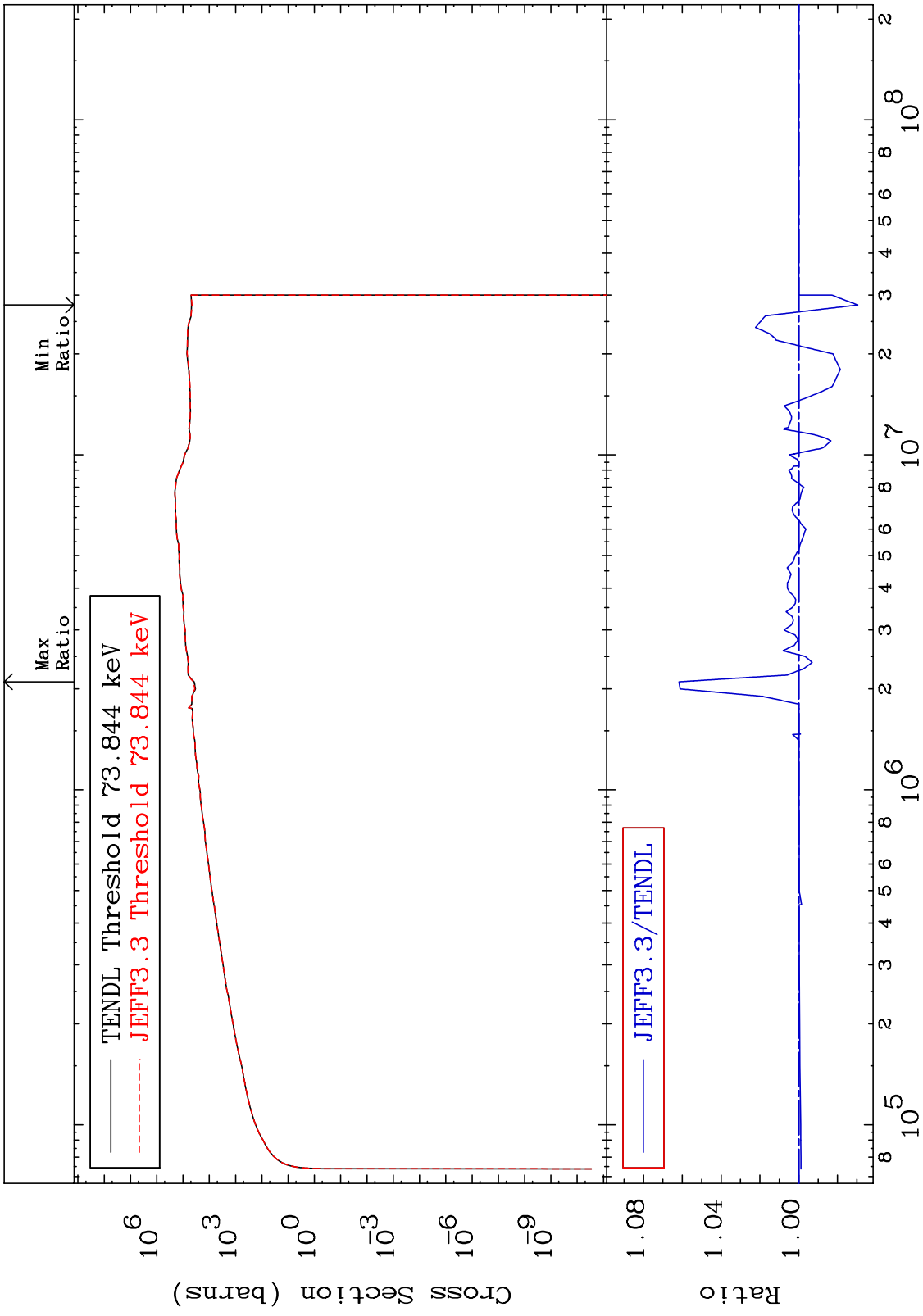
MAT 6649

Kerma non-elastic (all but mt2)
Cross Section

66-Dy-164
-99.45 To 9999. %



MAT 6649 Kerma inelastic (mt51-91) 66-Dy-164
 Cross Section -3.047 To 6.167 %

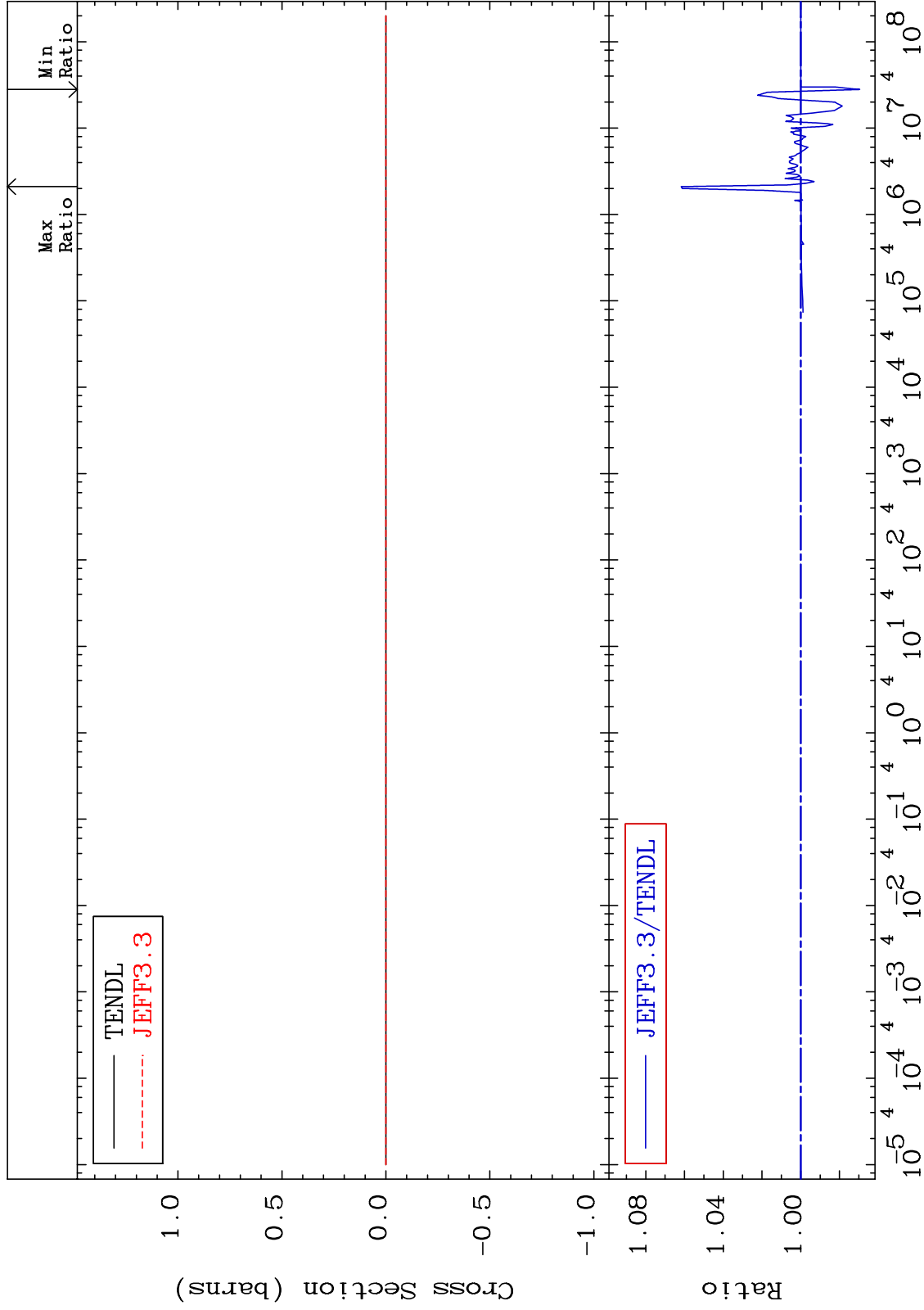


65 Incident Energy (eV) 66-Dy-164

MAT 6649

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

66-Dy-164
-3.047 To 6.167 %



66

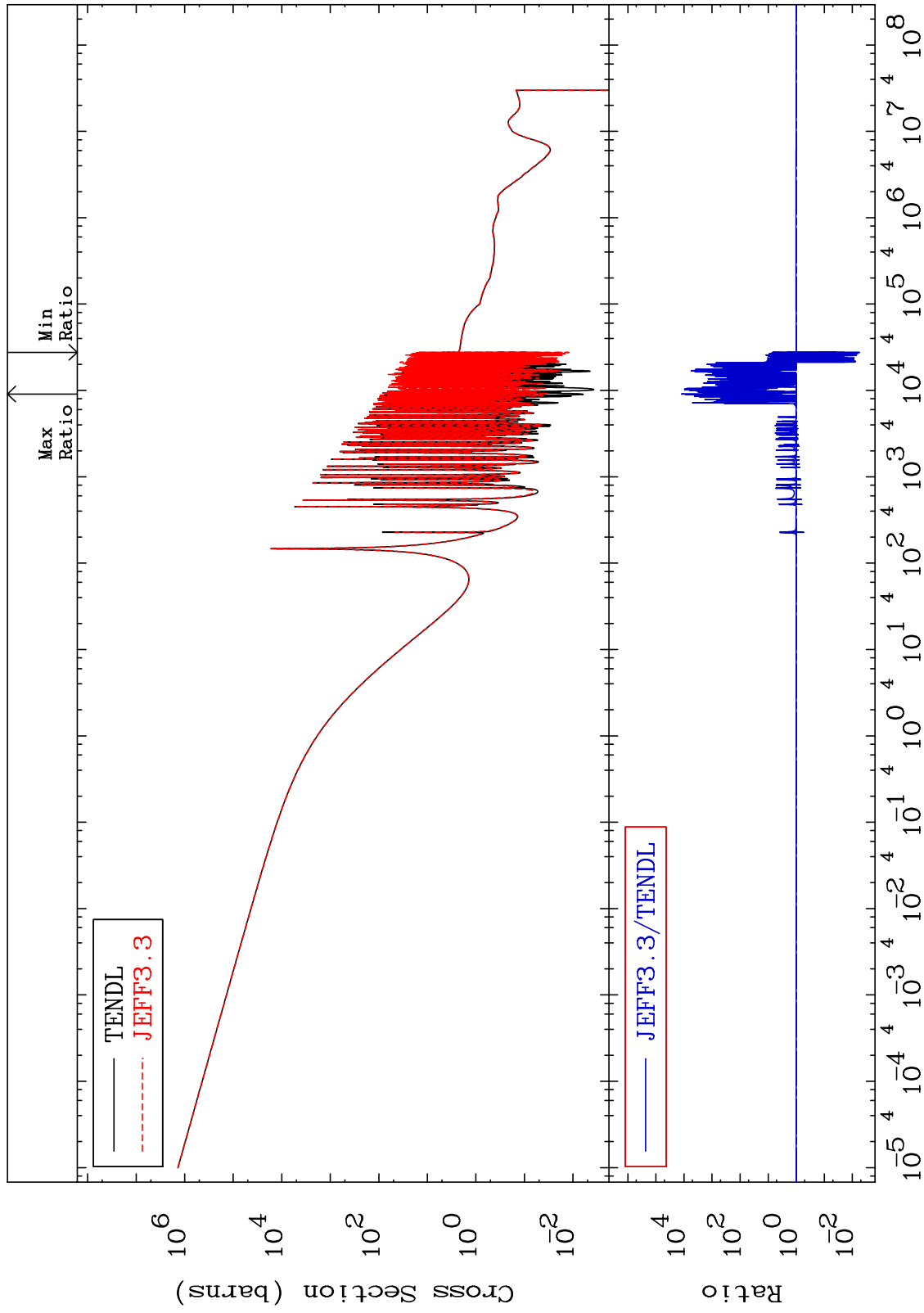
Incident Energy (eV)

66-Dy-164

MAT 6649

Kerma capture (mt102)
Cross Section

66-Dy-164
-99.45 To 9999. %

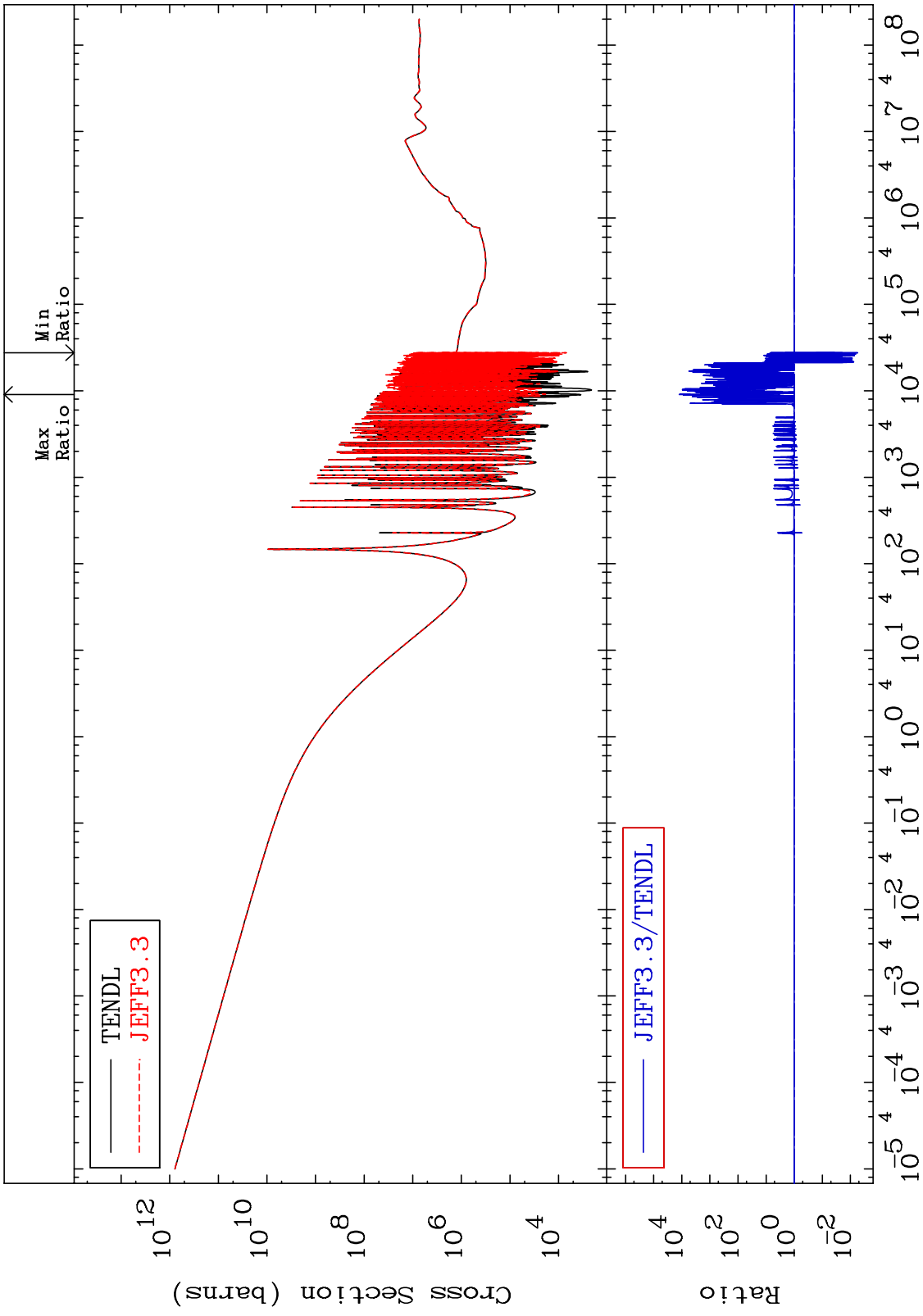


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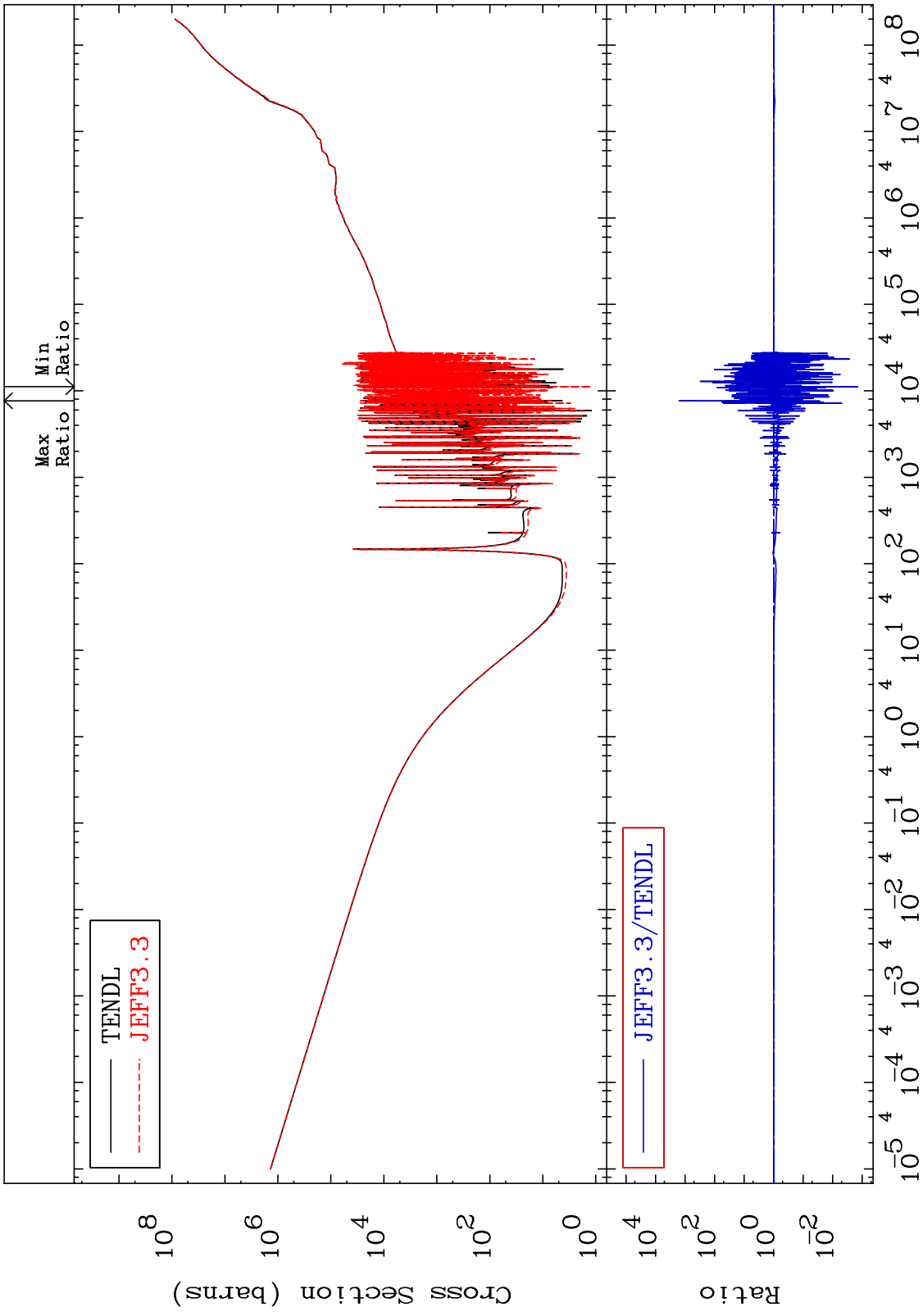
Incident Energy (eV)

66-Dy-164

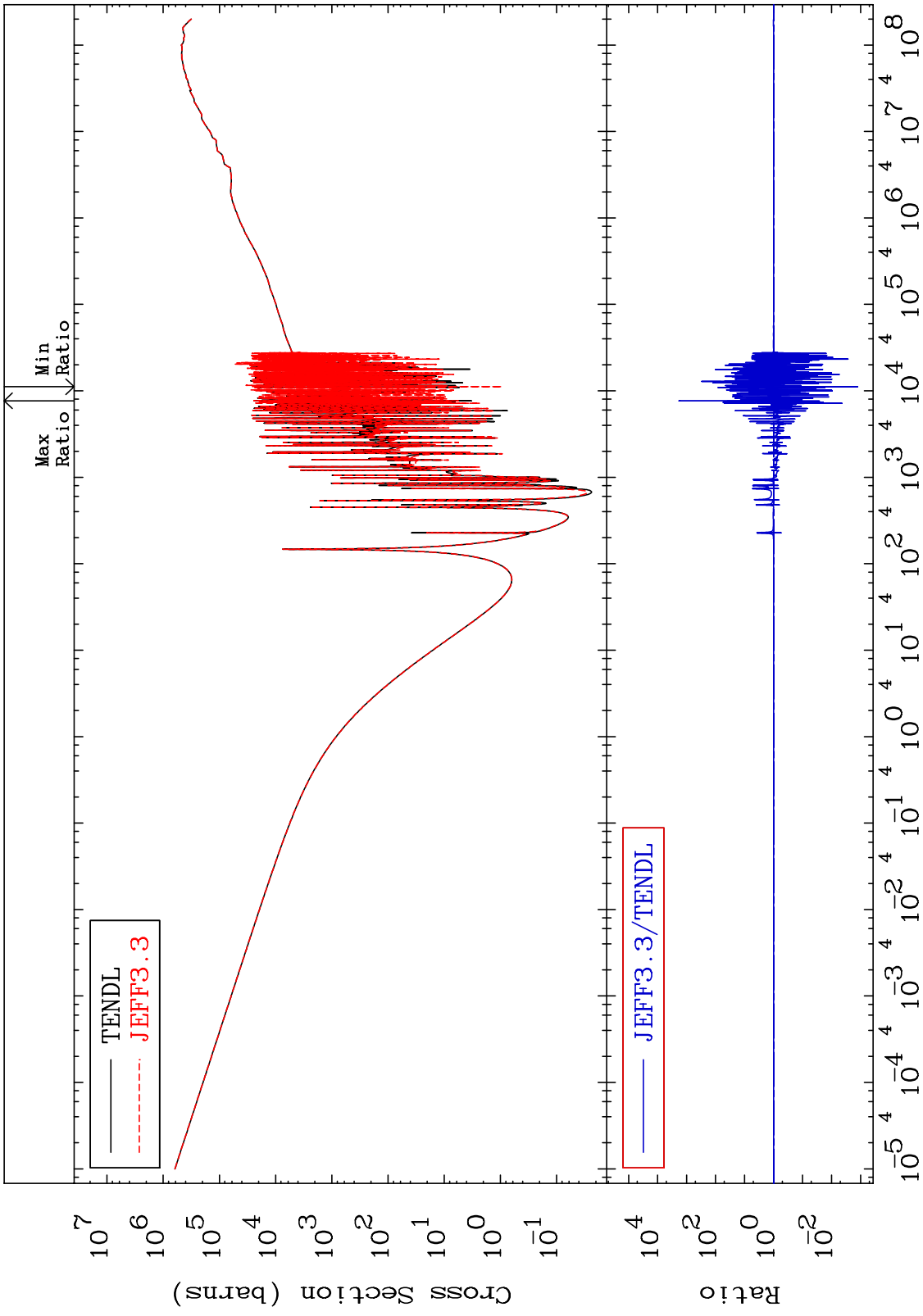
MAT 6649 Total photon (eV-barns) Cross Section 66-Dy-164
-99.45 To 9999. %



MAT 6649 Total kinematic kerma (high limit) 66-Dy-164
Cross Section -99.86 To 9999. %



MAT 6649 Dpa total (eV-barns) 66-Dy-164
 Cross Section -99.88 To 9999. %

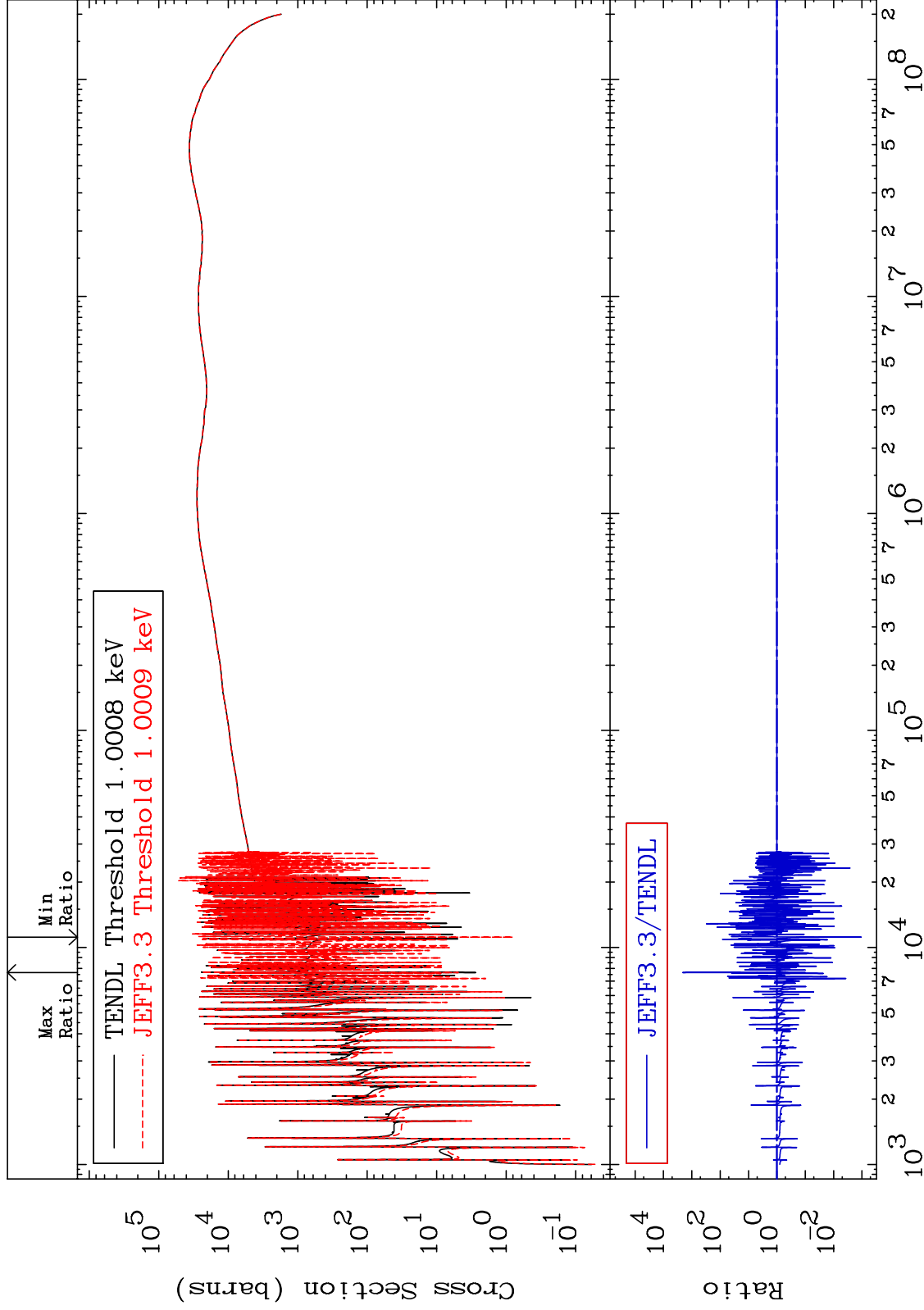


70 Incident Energy (eV) 66-Dy-164

MAT 6649

Dpa elastic (mt2)
Cross Section

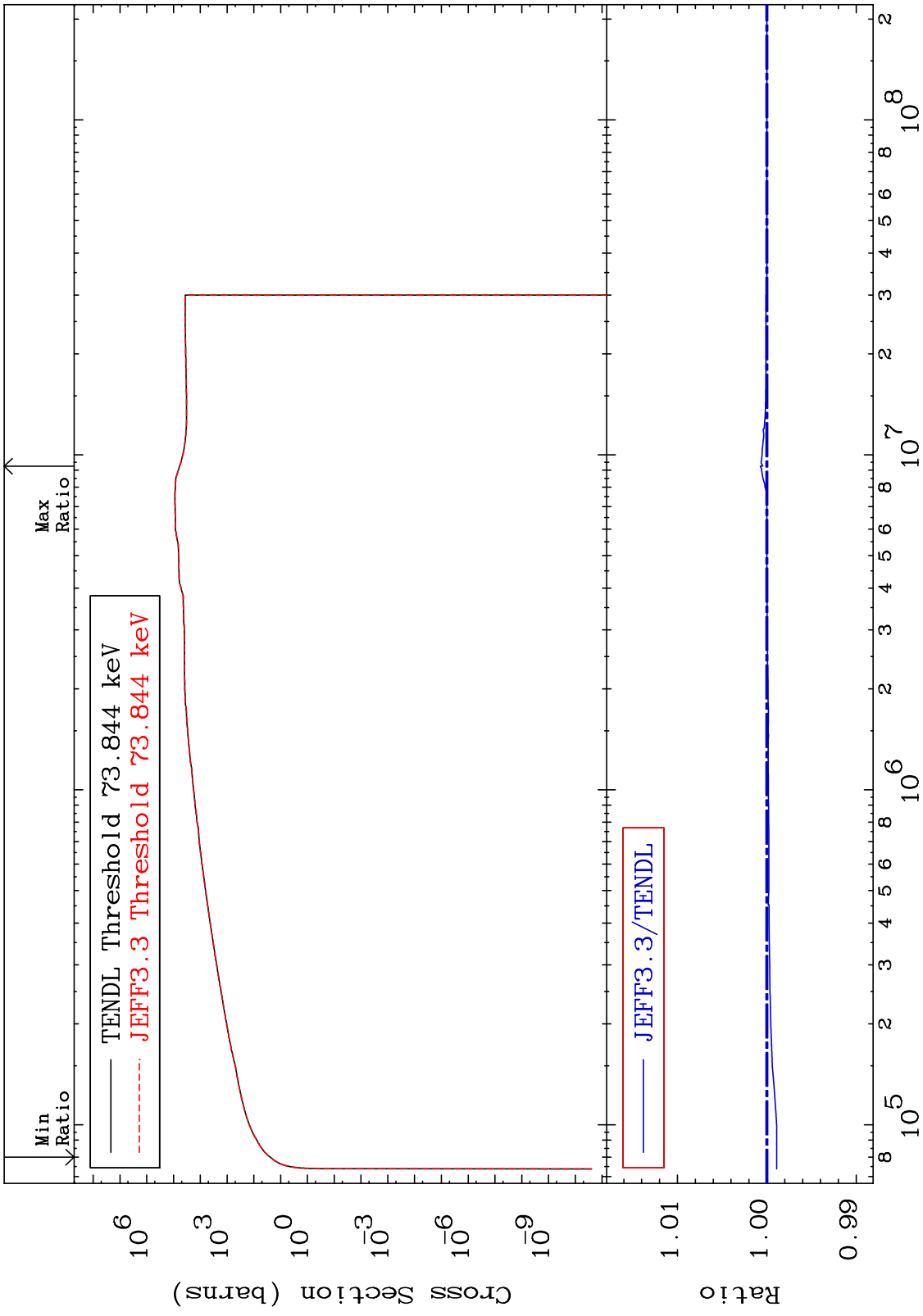
66-Dy-164
-99.89 To 9999. %



71

66-Dy-164

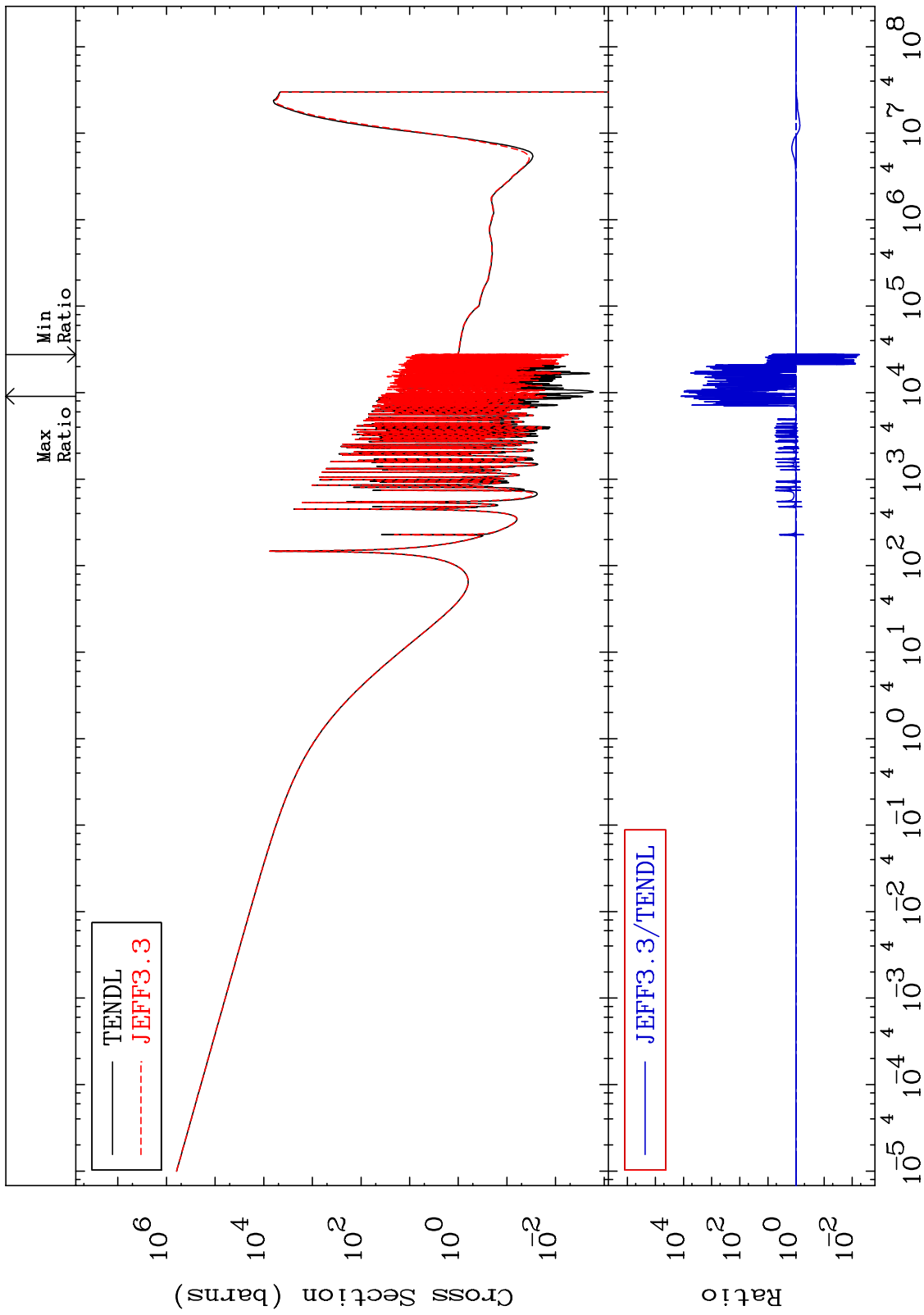
MAT 6649 Dpa inelastic (mt51-91) 66-Dy-164
 Cross Section -0.110 To 0.074 %



MAT 6649

Dpa disappearance (mt102 -120)
Cross Section

66-Dy-164
-99.45 To 9999. %



73

Incident Energy (eV)

66-Dy-164