

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

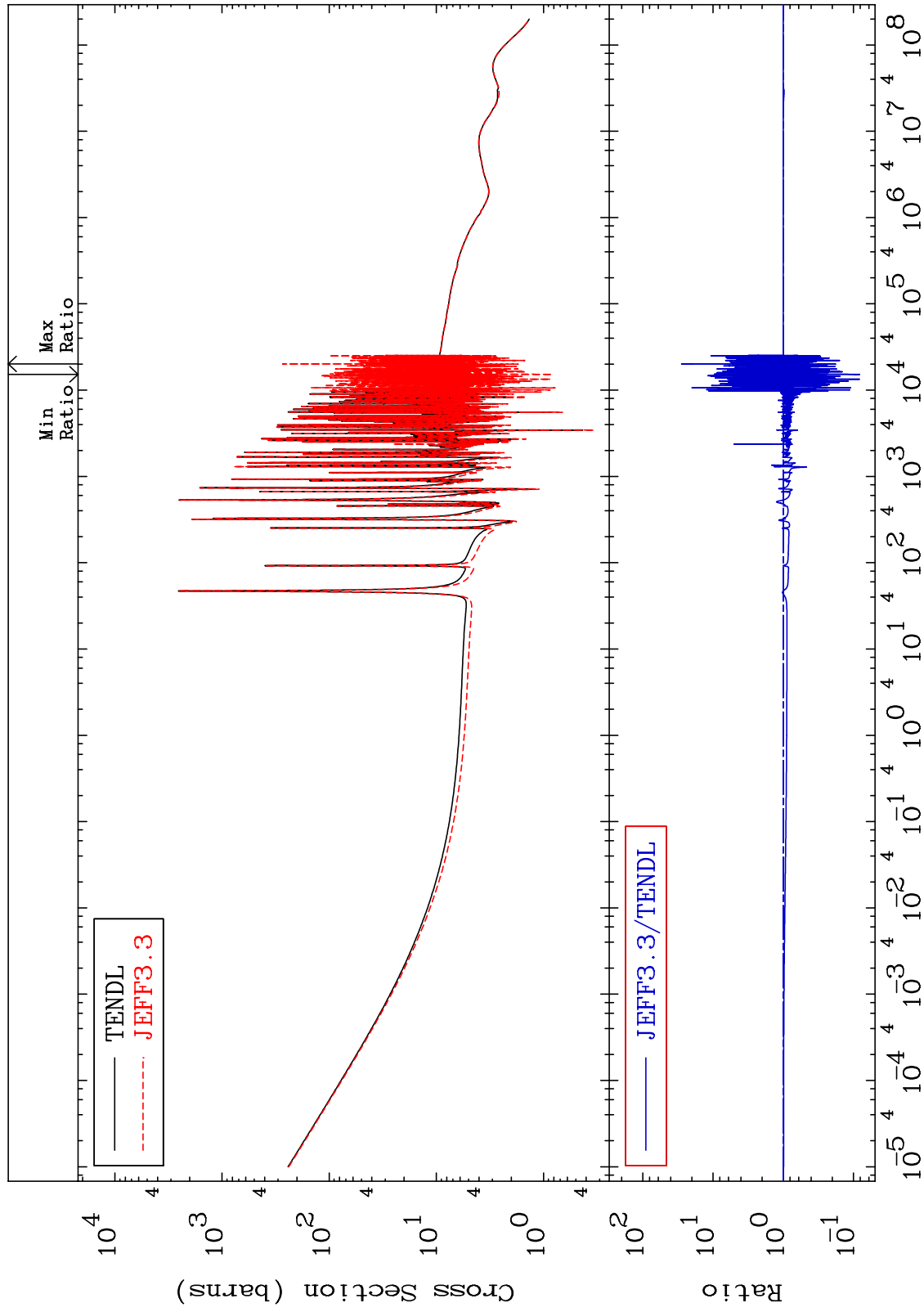
MAT 3325

Total

33-As-75

Cross Section

-91.90 To 2713. %



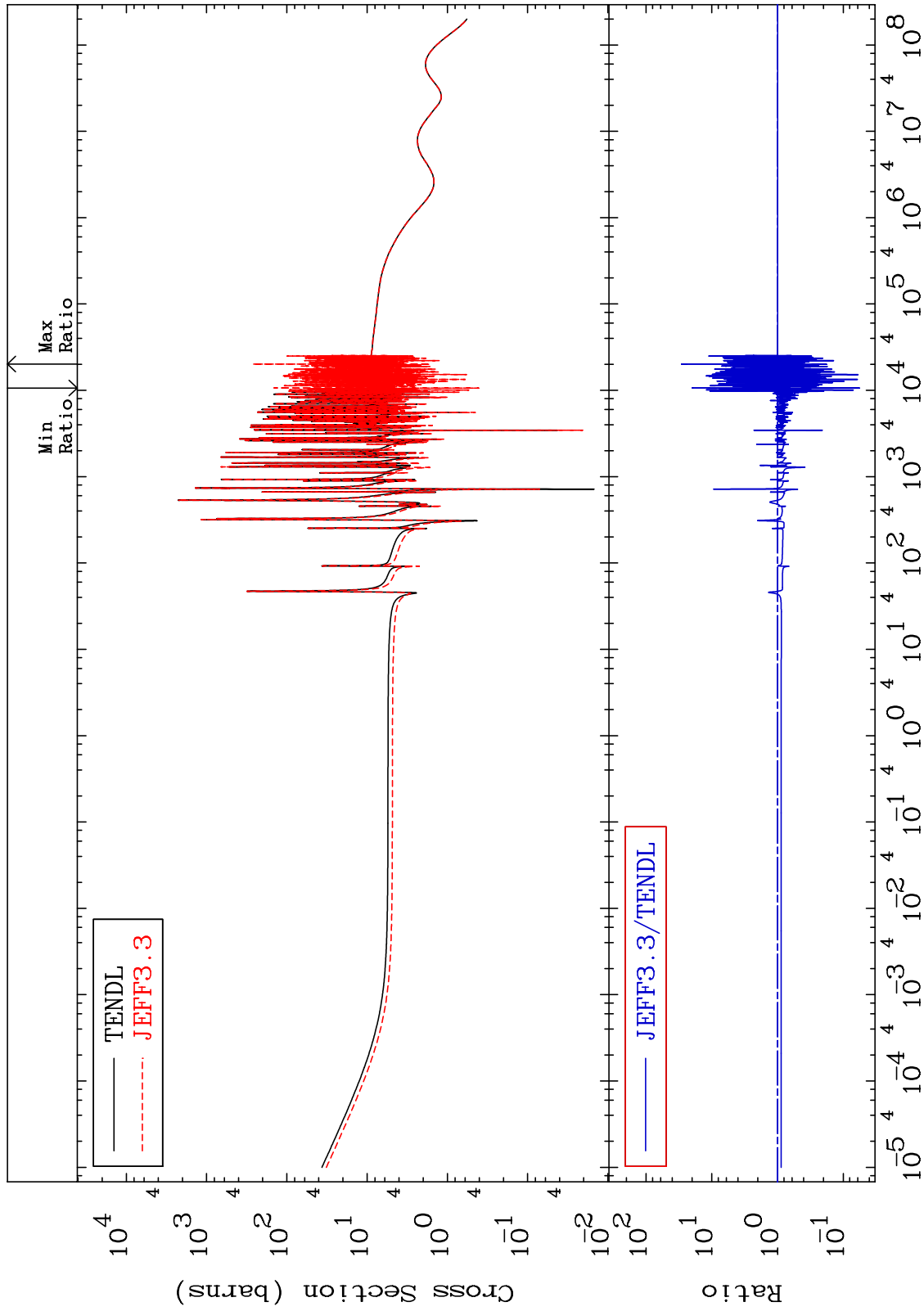
Incident Energy (eV)

33-As-75

MAT 3325

Elastic
Cross Section

33-As-75
-94.39 To 2820. %



MAT 3325

Inelastic
Cross Section

33-As-75
-0.062 To 0.242 %

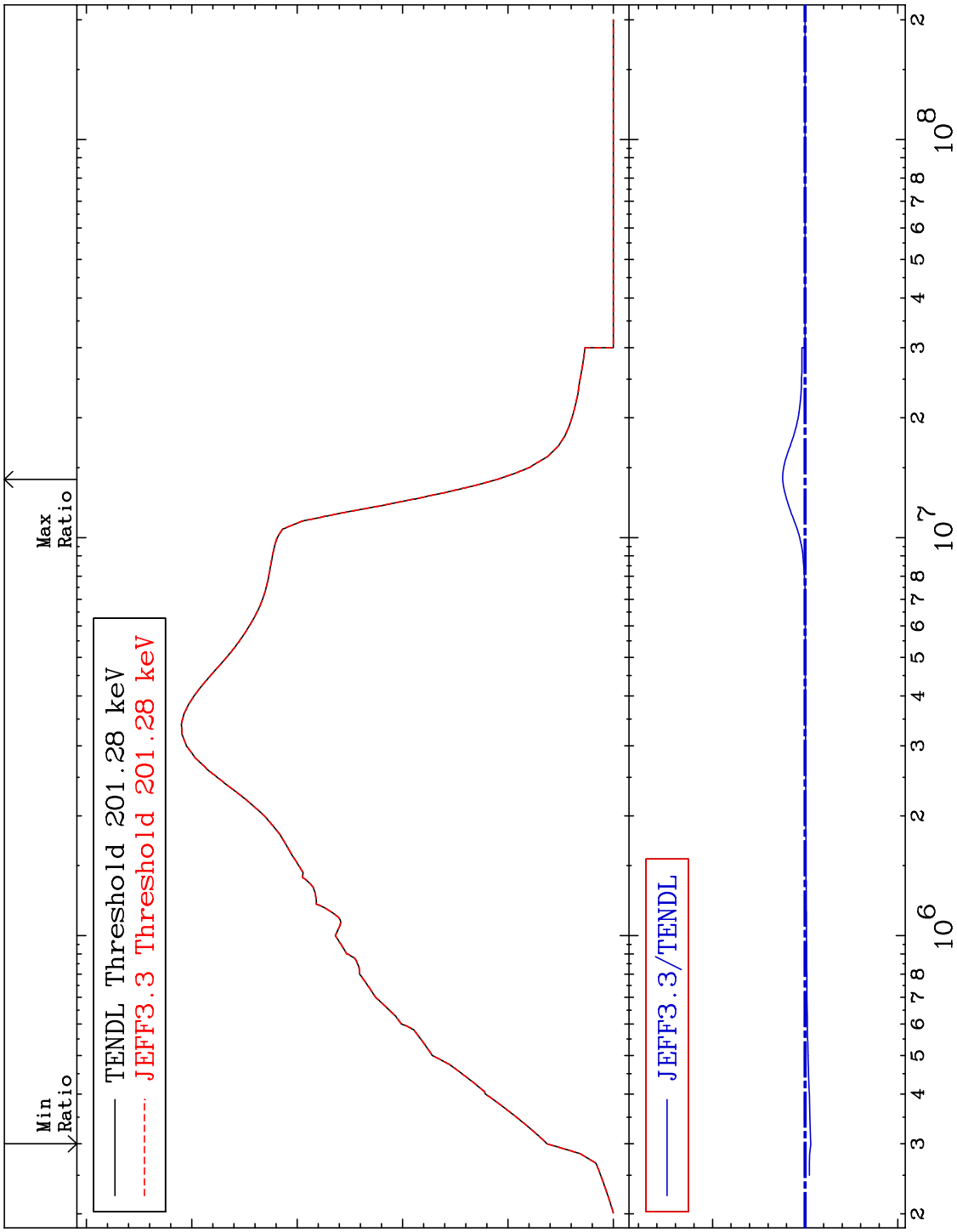
Min
Ratio

Max
Ratio

— TENDL Threshold 201.28 keV
- - - JEFF3.3 Threshold 201.28 keV

— JEFF3.3/TENDL

Cross Section (barns)
Ratio

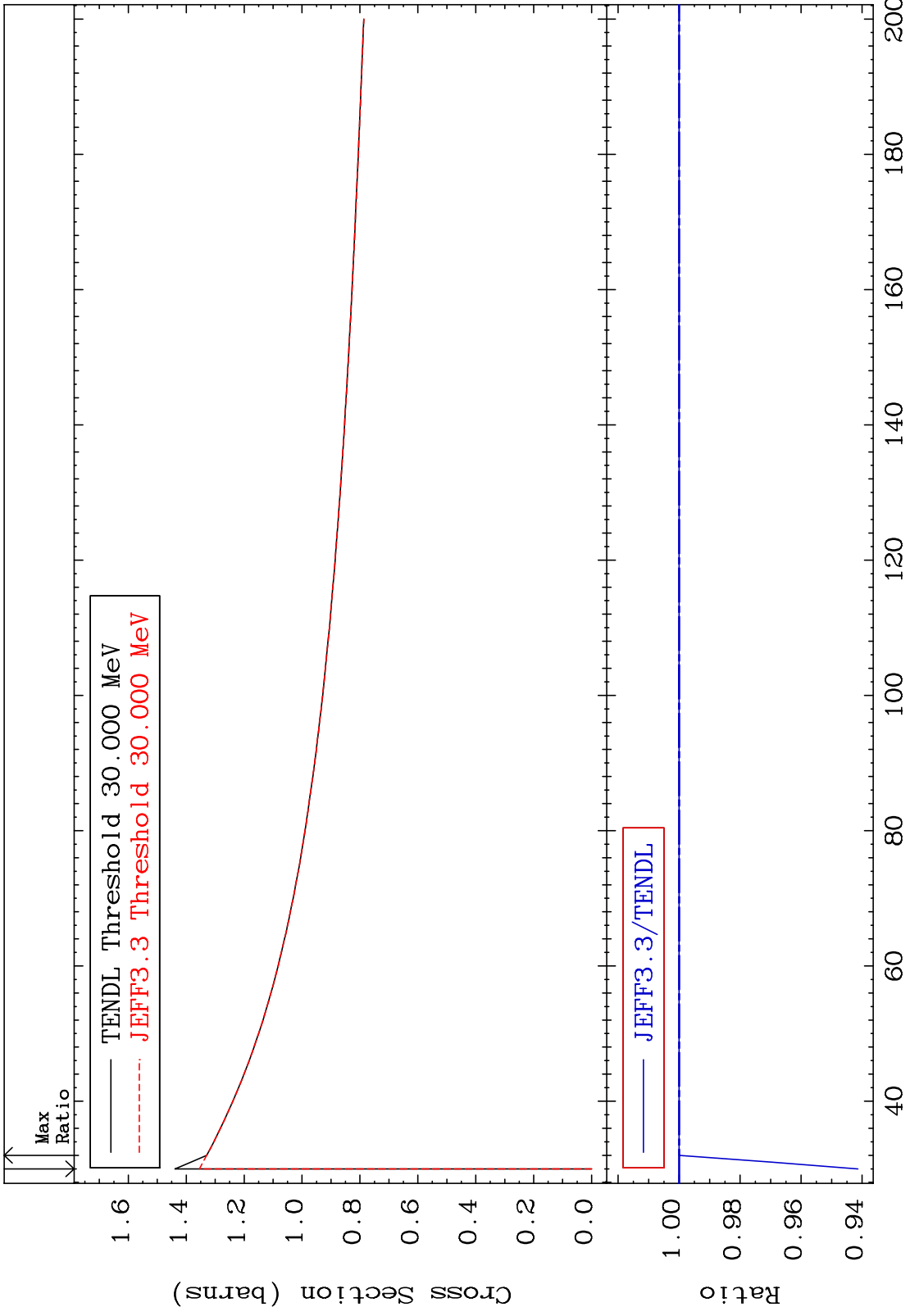


3

Incident Energy (eV)

33-As-75

MAT 3325 (n, remainder) Cross Section 33-As-75 -5.863 To 0.000 %



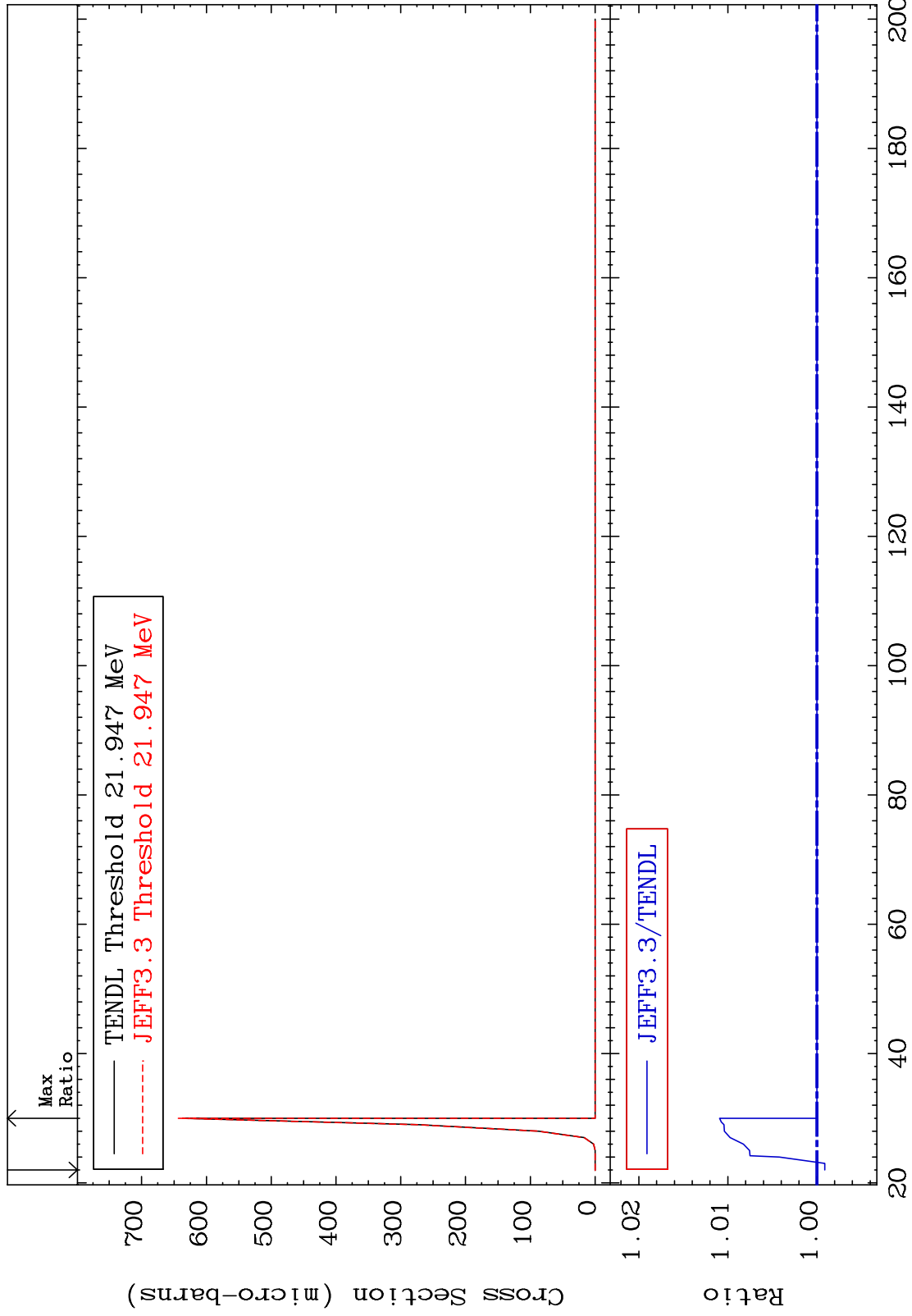
MAT 3325

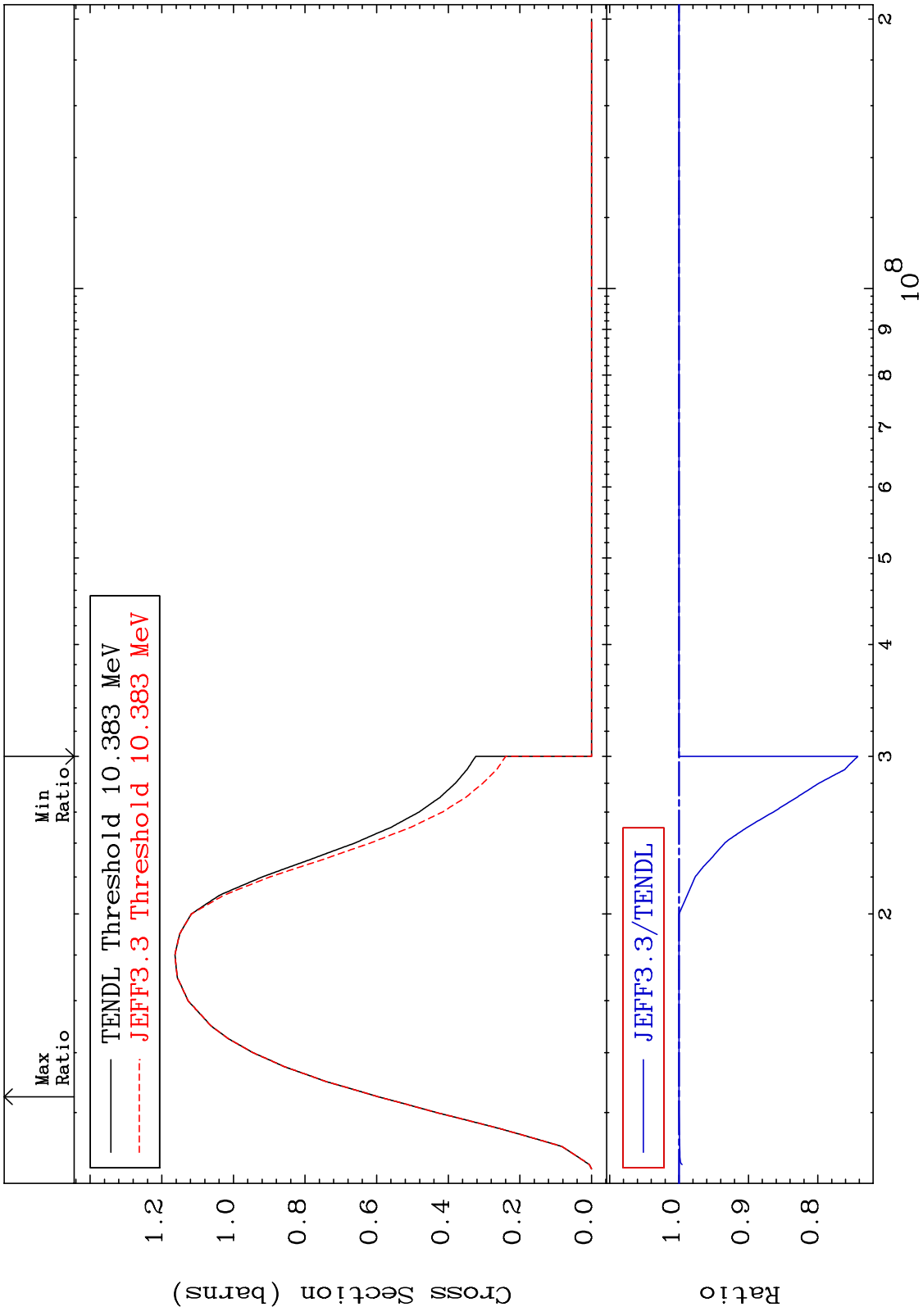
(n,2n) d

33-As-75

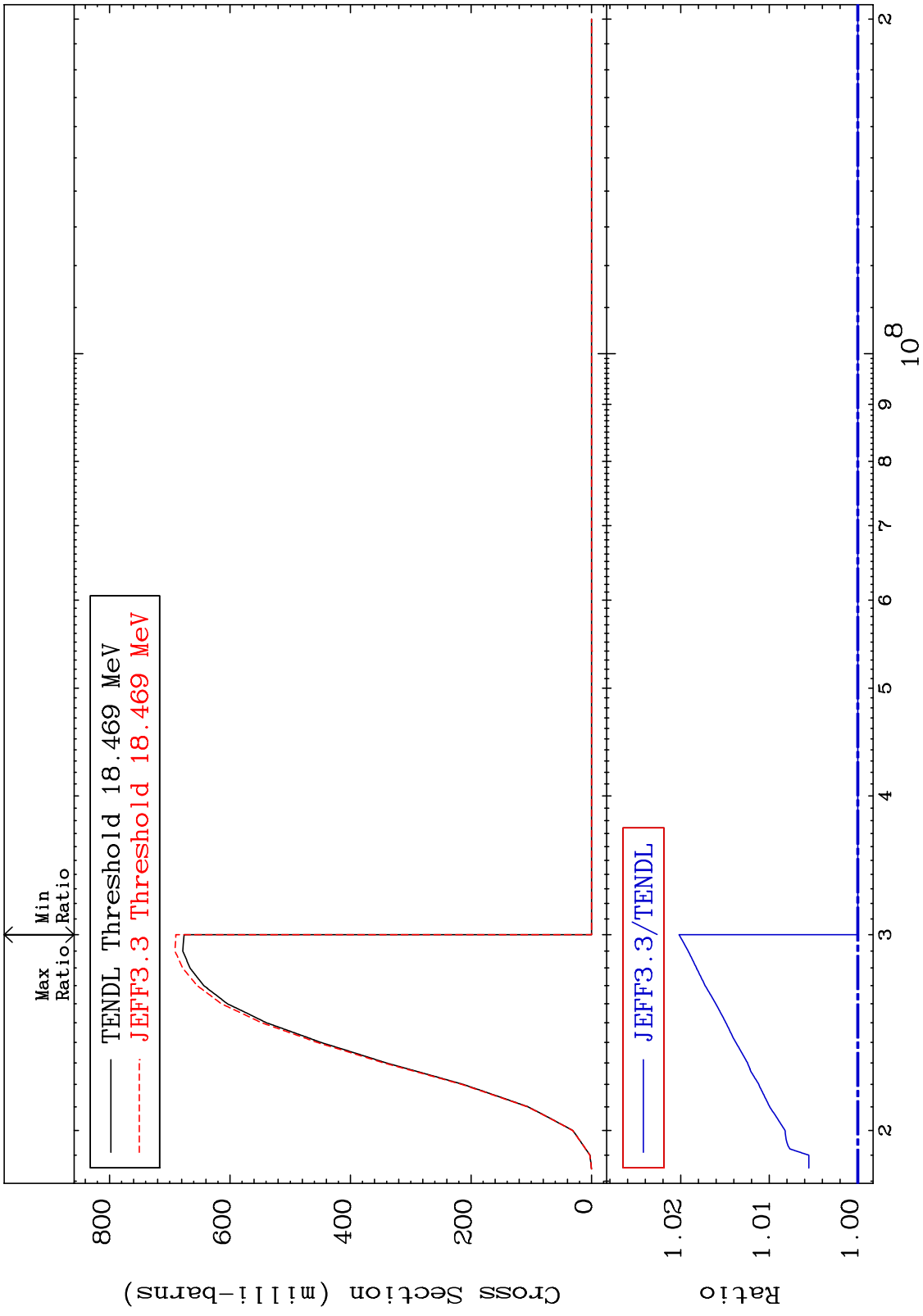
Cross Section

-0.088 To 1.093 %

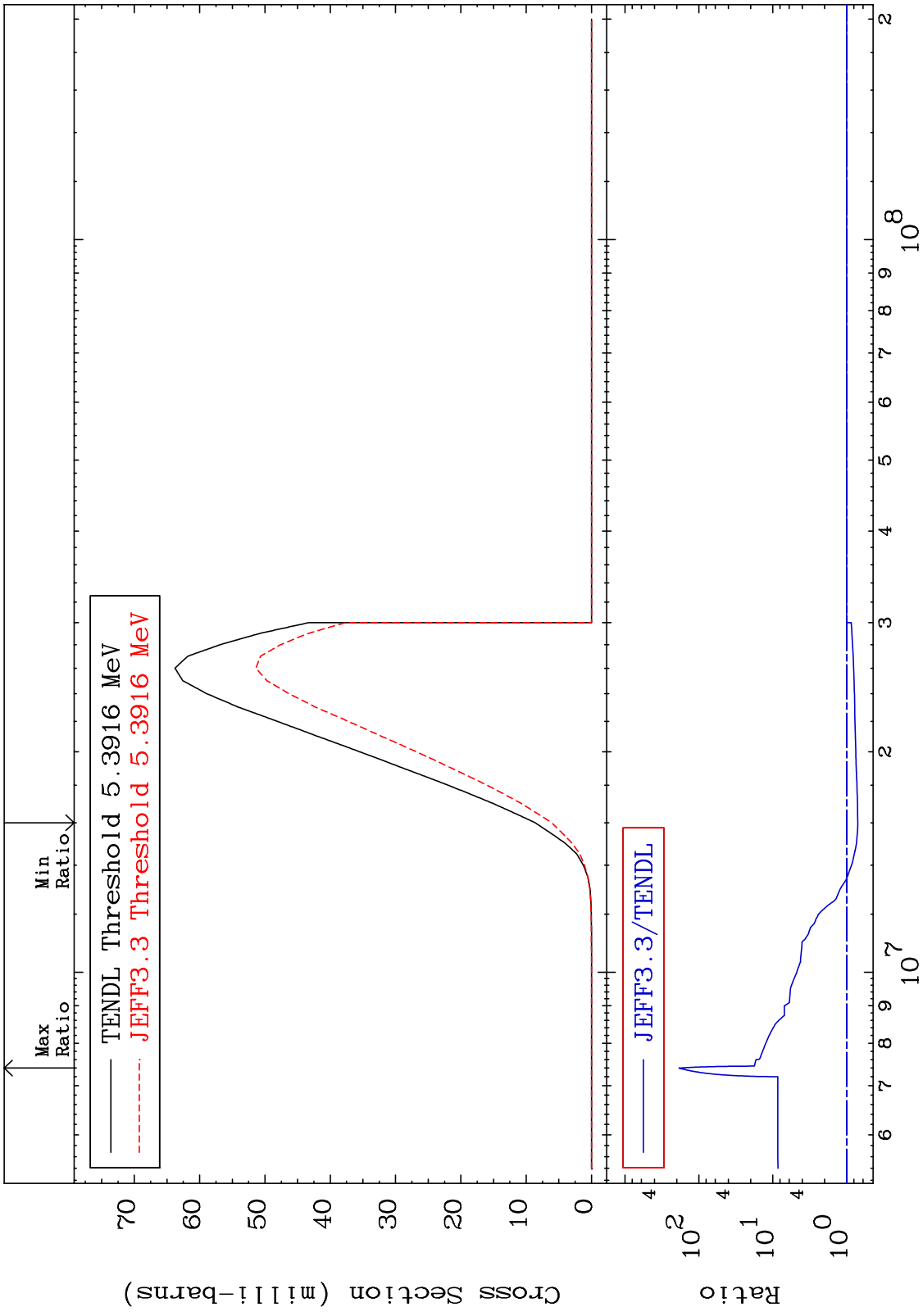




MAT 3325 (n,3n) Cross Section 33-As-75 To 2.019 %



MAT 3325 $(n, n') \alpha$ 33-As-75
 Cross Section -29.21 To 9999. %



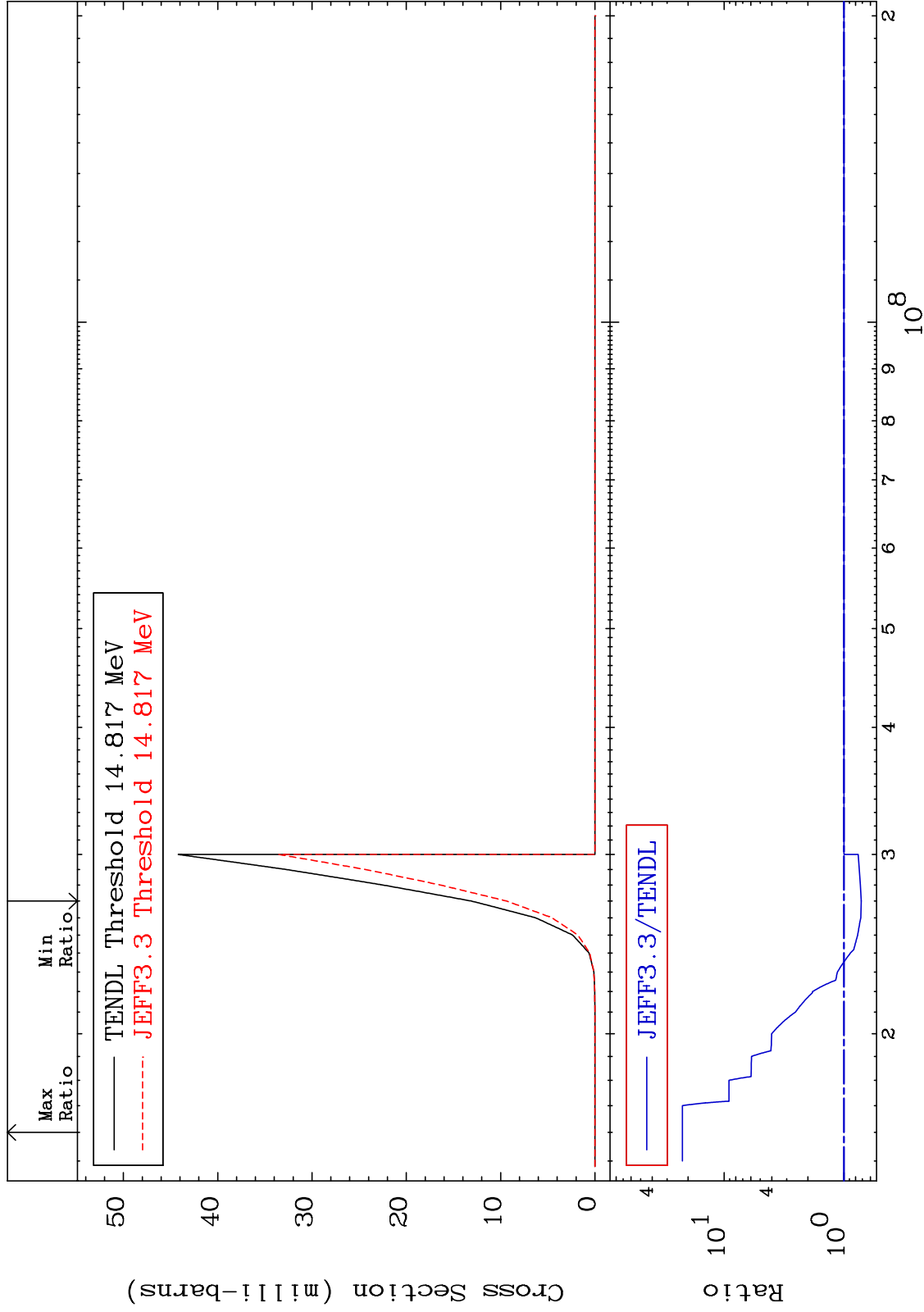
MAT 3325

(n,2n) α

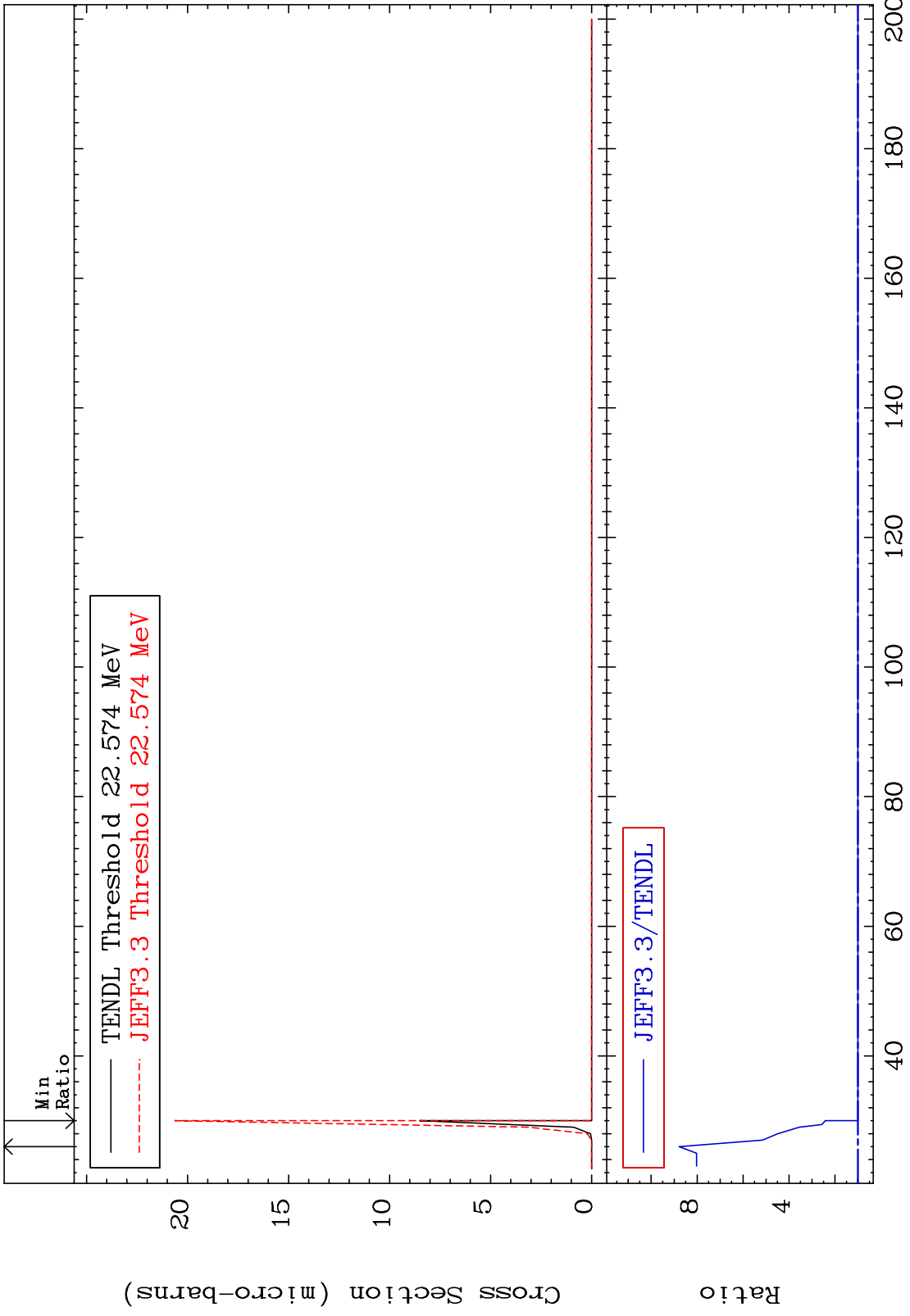
33-As-75

Cross Section

-28.46 To 2132. %

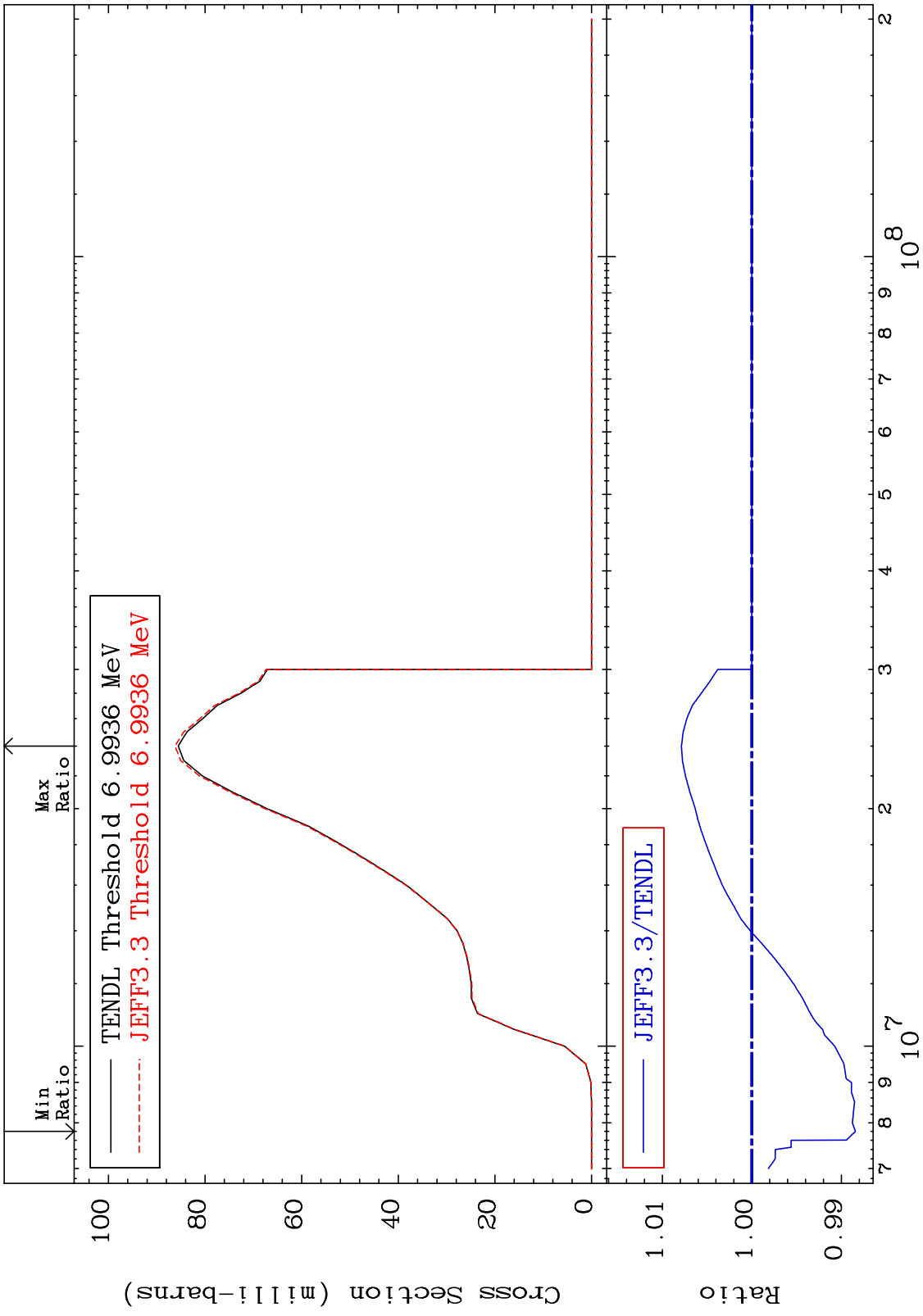


MAT 3325 (n,3n) α 33-As-75
Cross Section 0.000 To 778.3 %



10 33-As-75

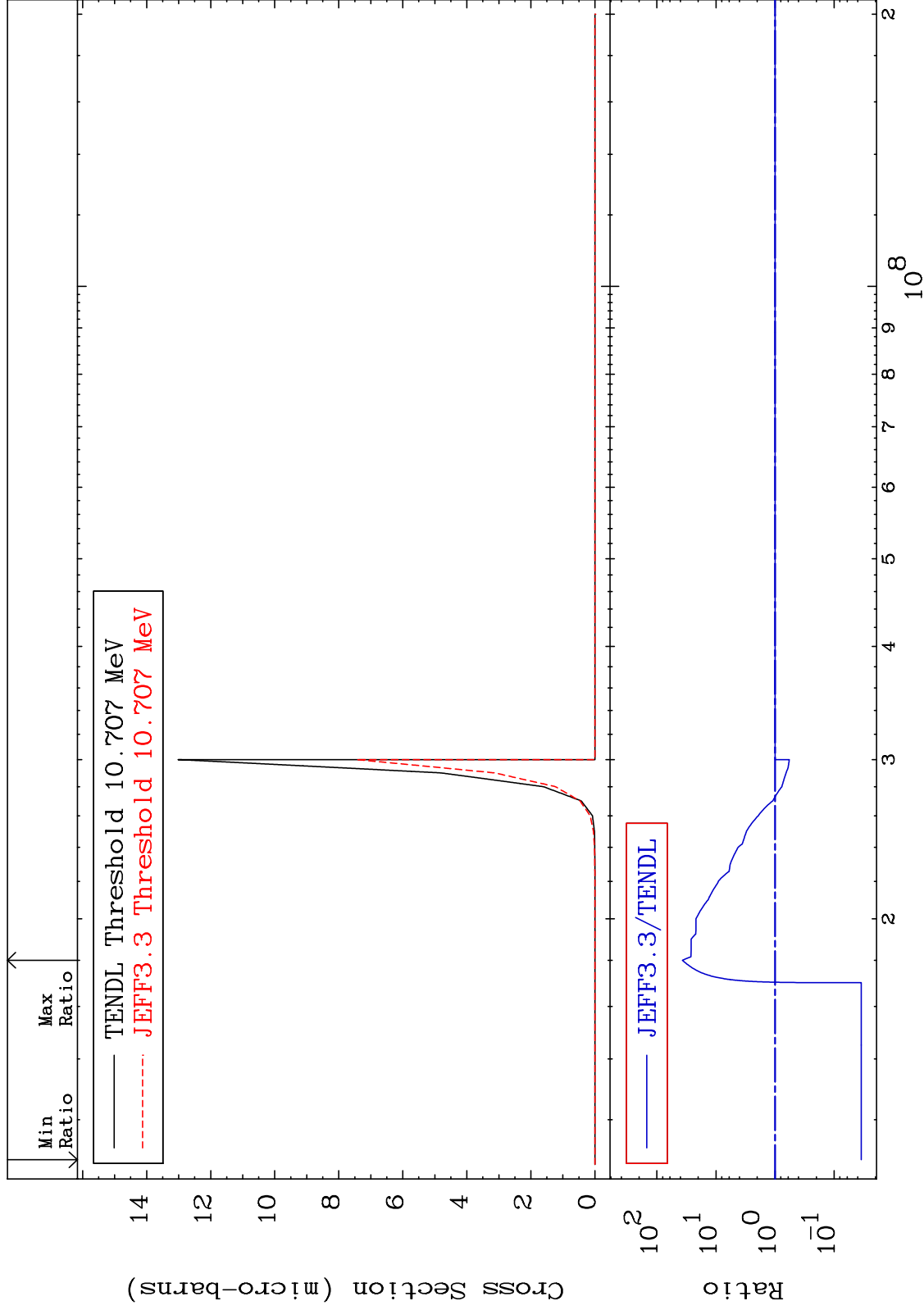
MAT 3325 (n, n') p 33-As-75
 Cross Section -1.156 To 0.786 %



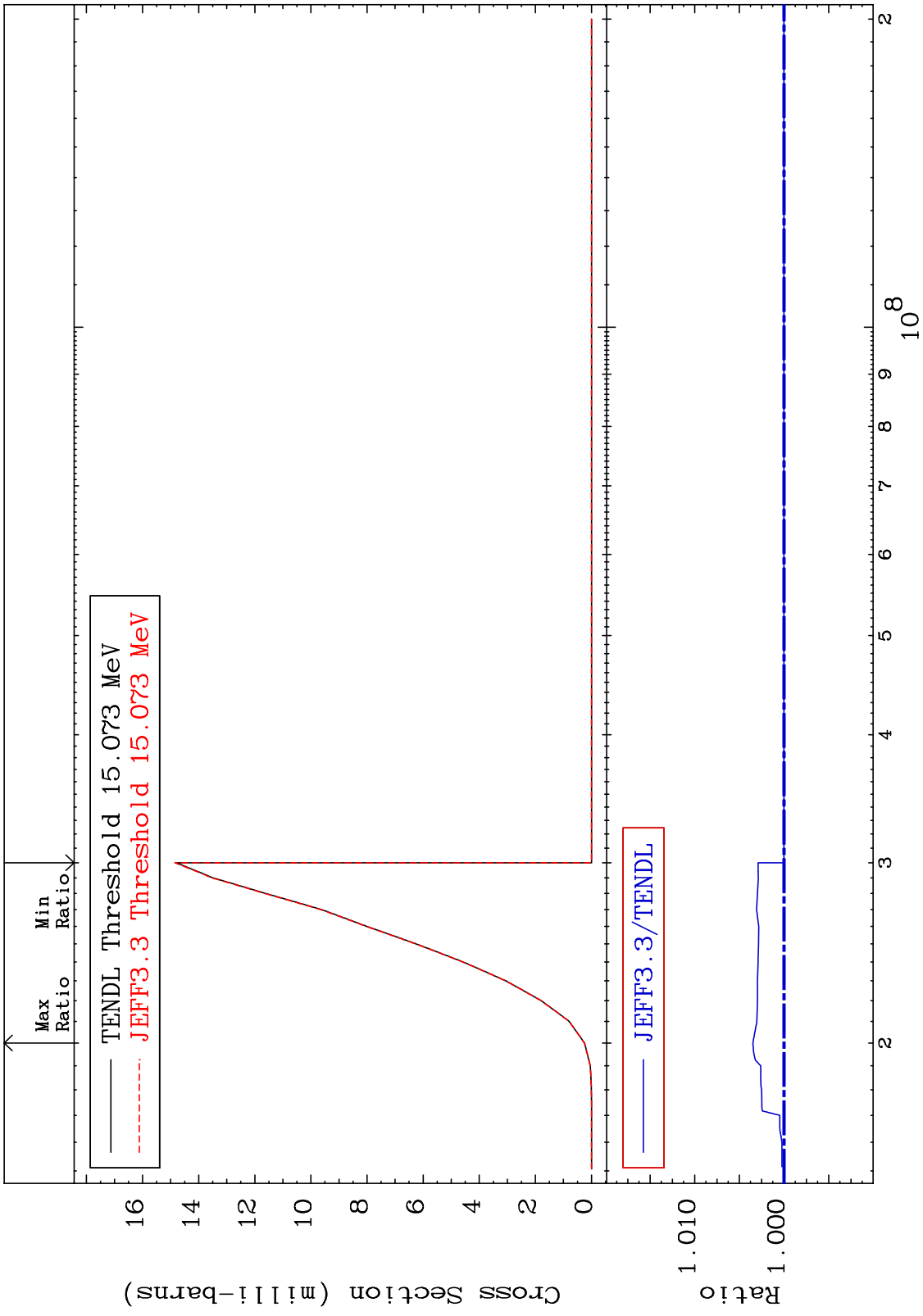
MAT 3325

(n,n') 2α
Cross Section

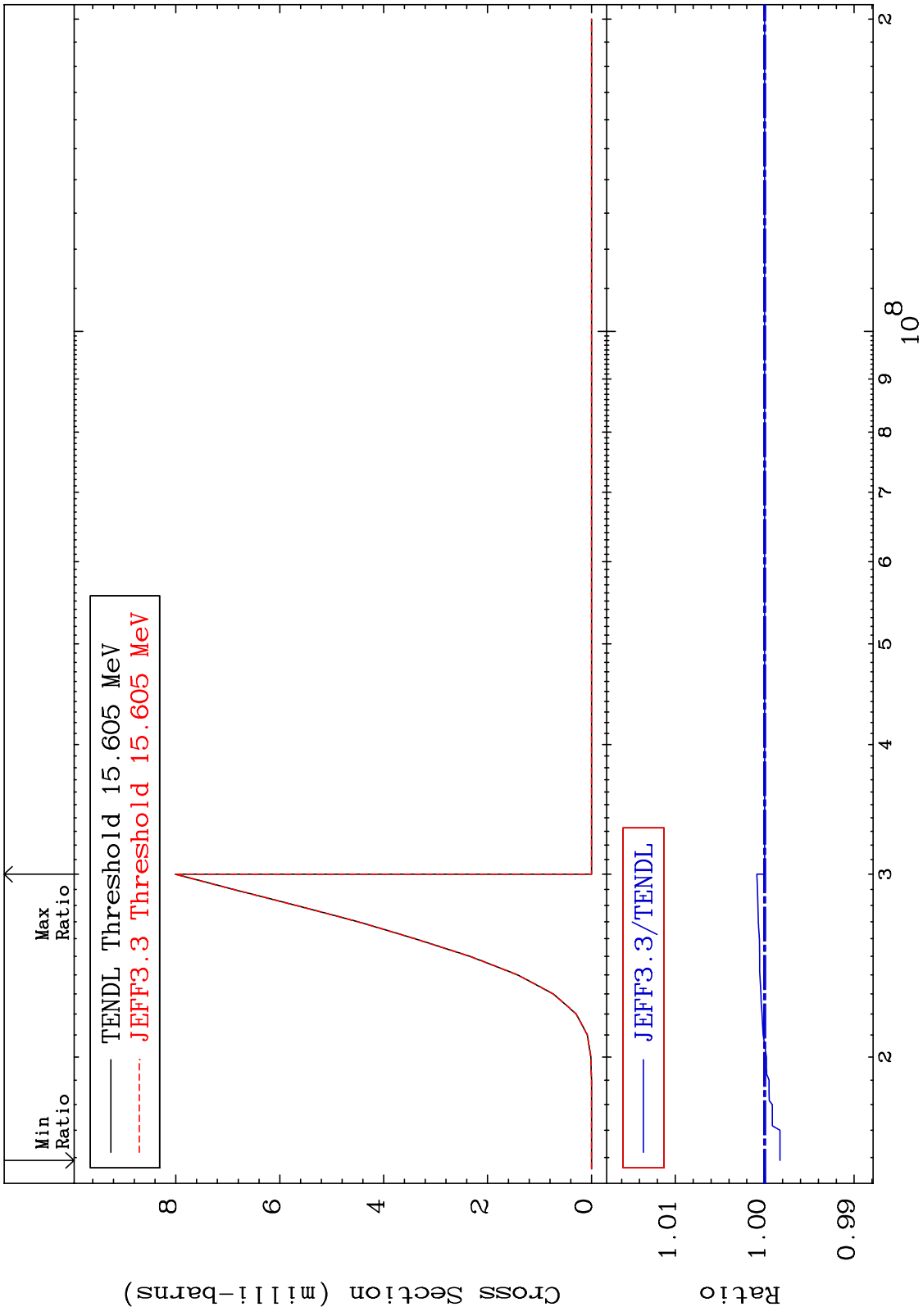
33-As-75
-96.53 To 3593. %



MAT 3325 $(n, n') d$ 33-As-75
 Cross Section 0.000 To 0.349 %



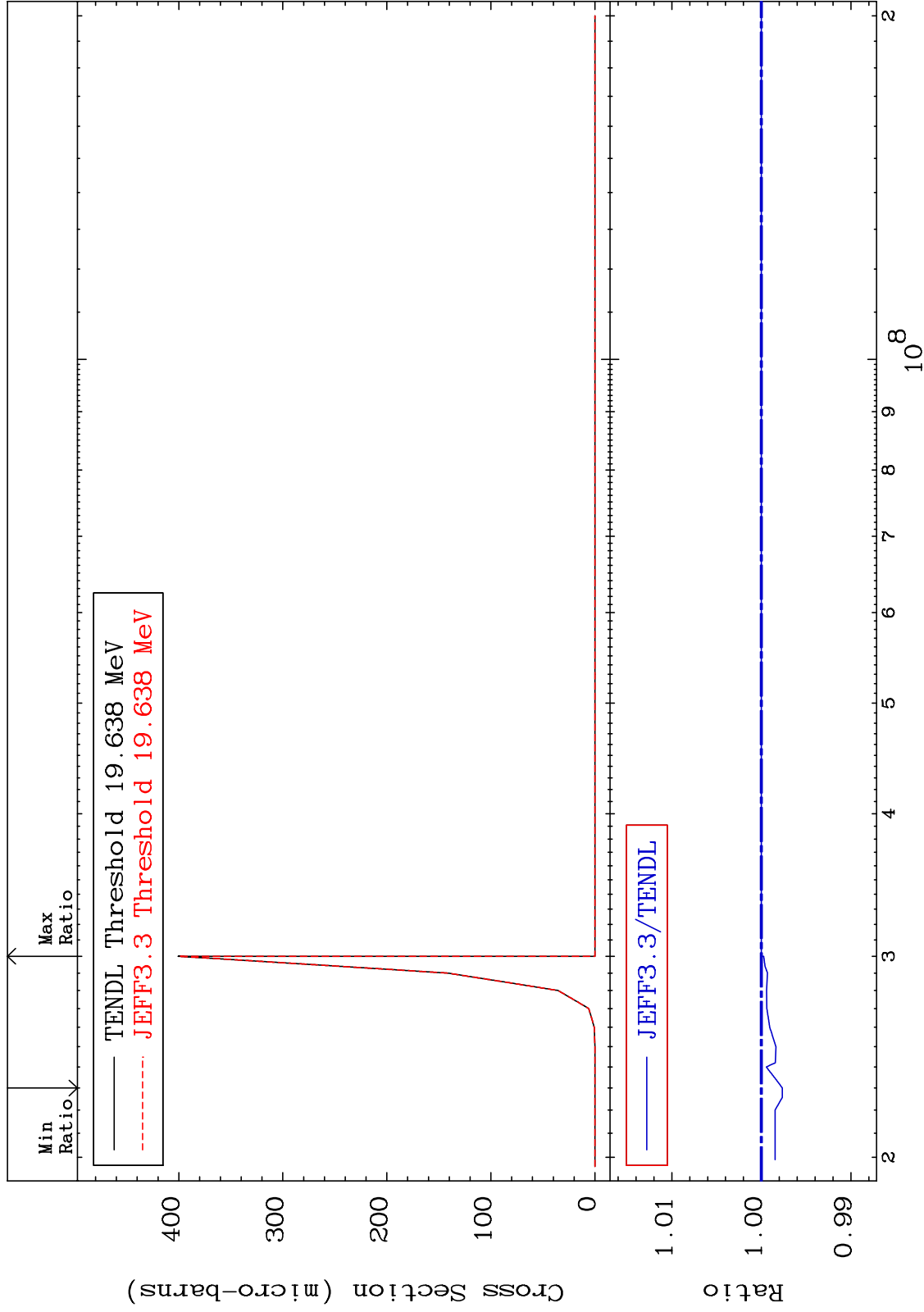
MAT 3325 $(n, n') t$ 33-As-75
 Cross Section -0.171 To 0.088 %



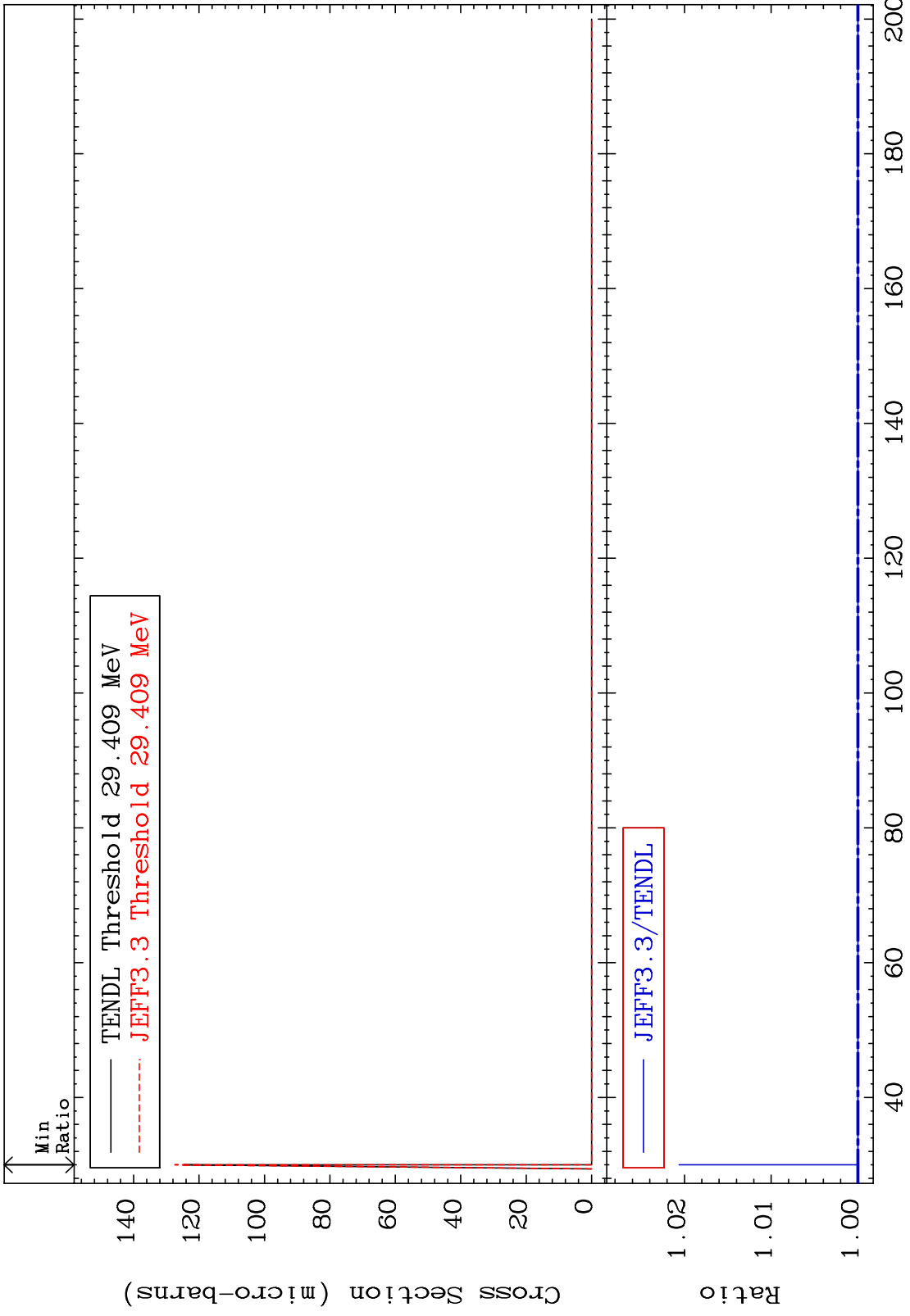
MAT 3325

(n, n') He-3
Cross Section

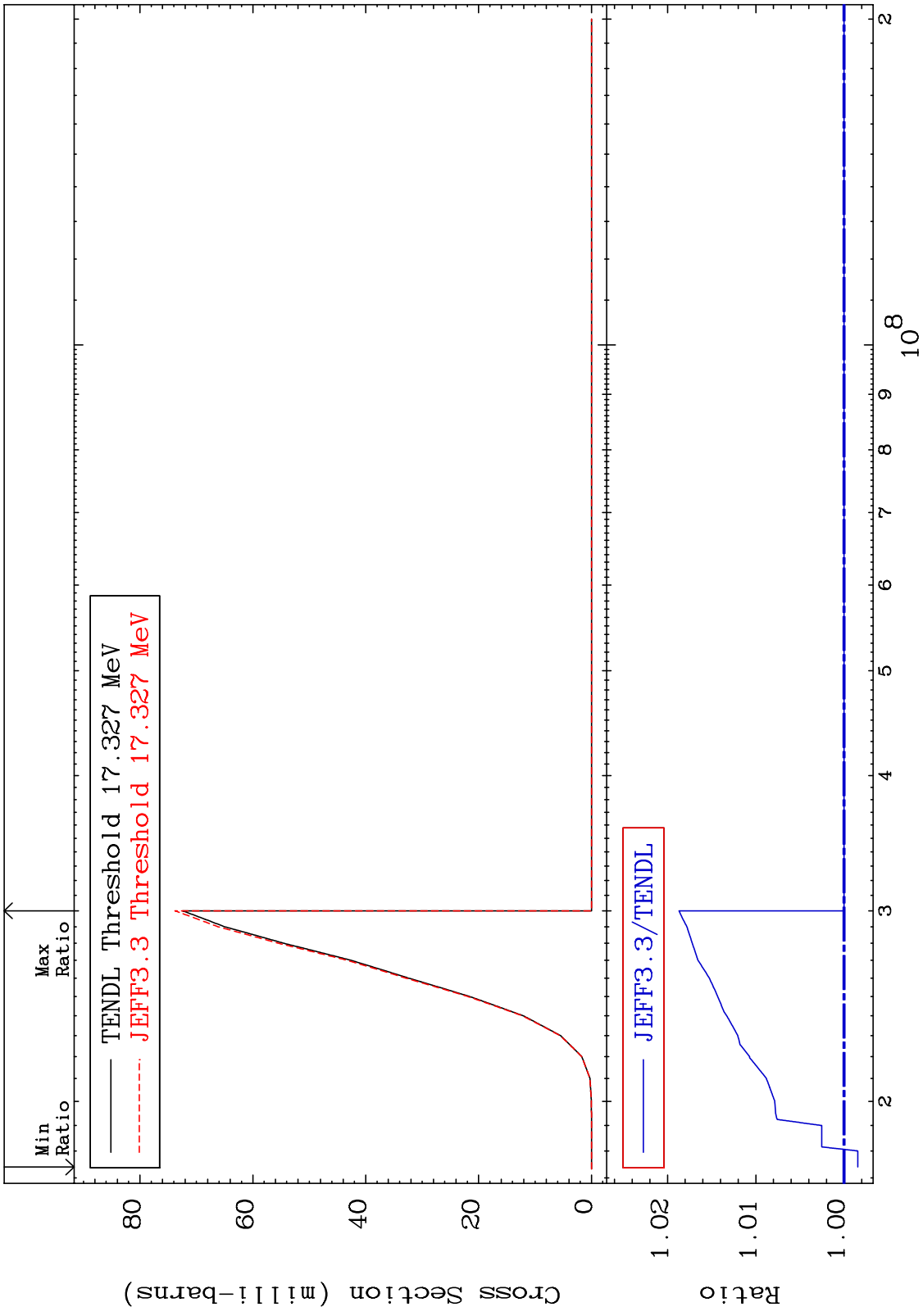
33-As-75
-0.2335 To 0.000 %



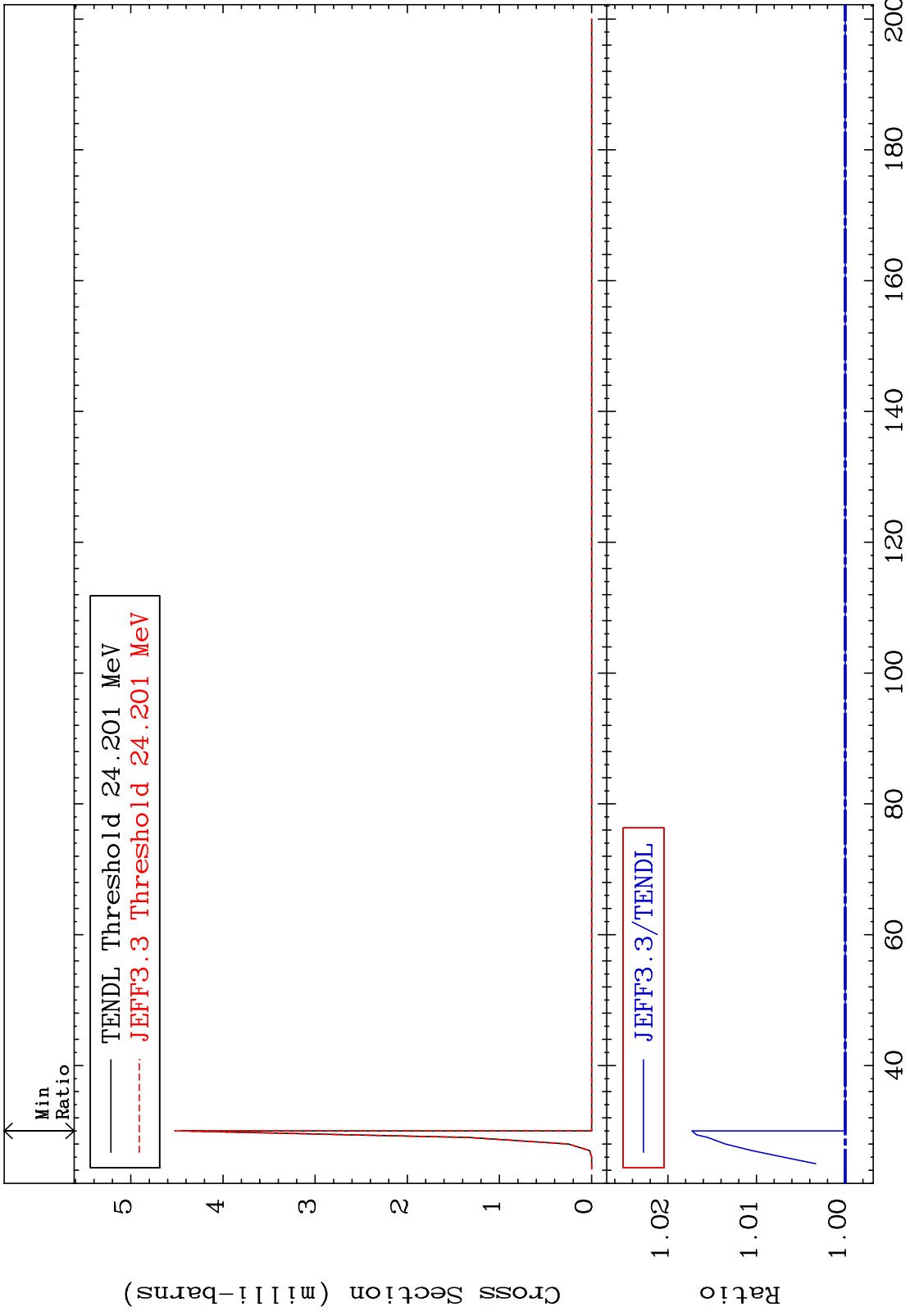
MAT 3325 (n,4n) Cross Section 33-As-75 To 2.062 %



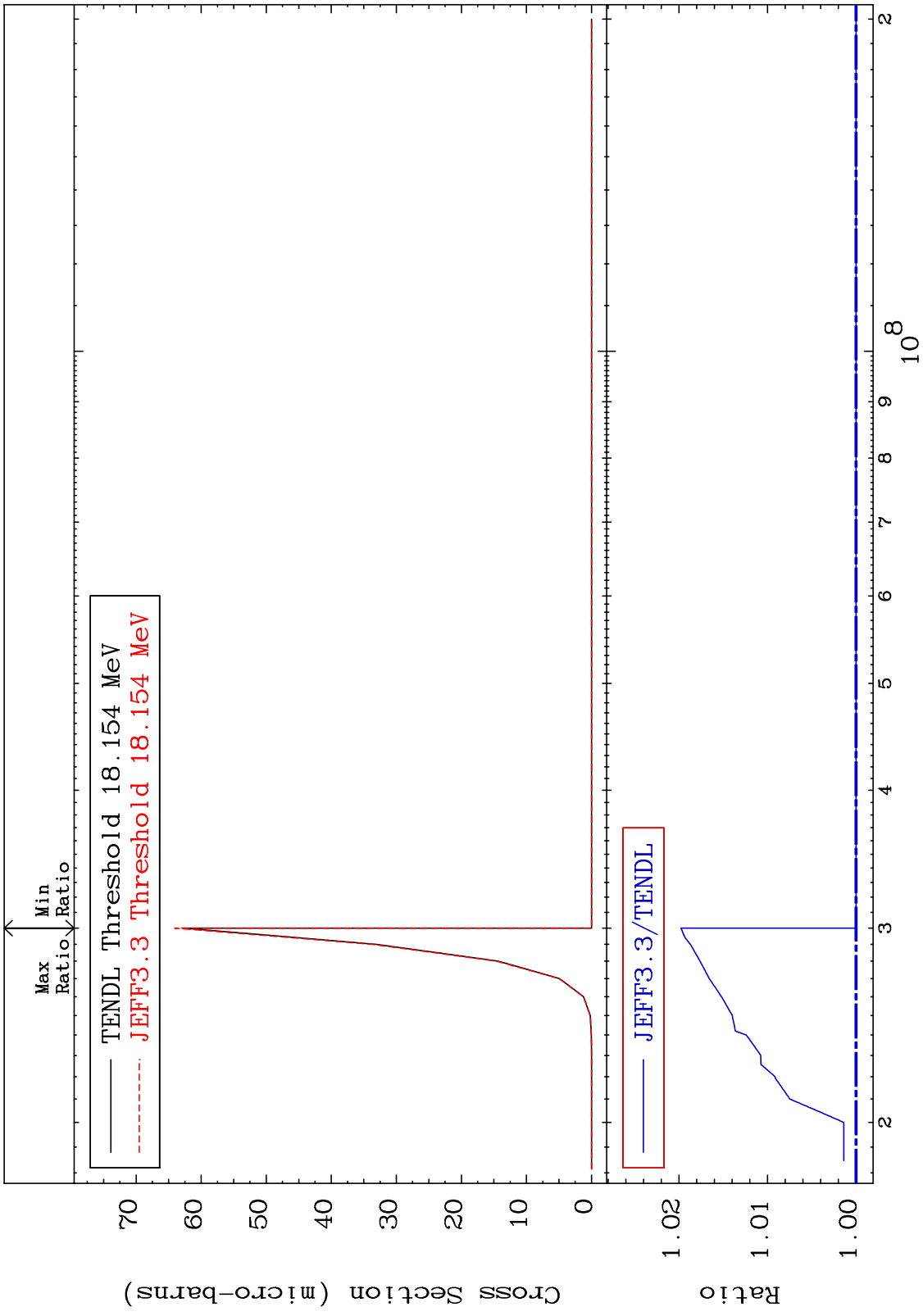
MAT 3325 (n,2n) p 33-As-75
 Cross Section -0.156 To 1.870 %



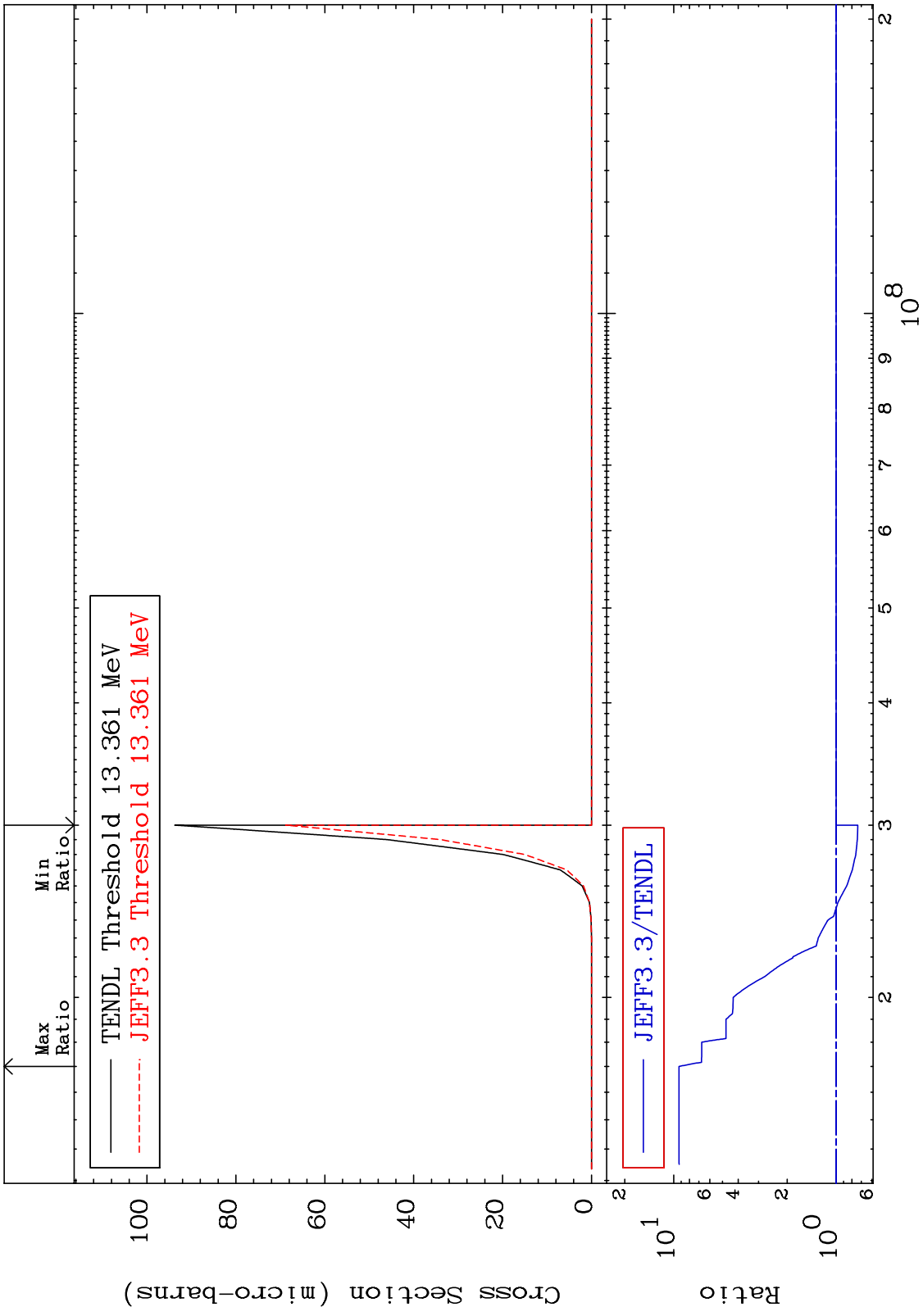
MAT 3325 (n,3n) p 33-As-75
Cross Section 0.000 To 1.729 %



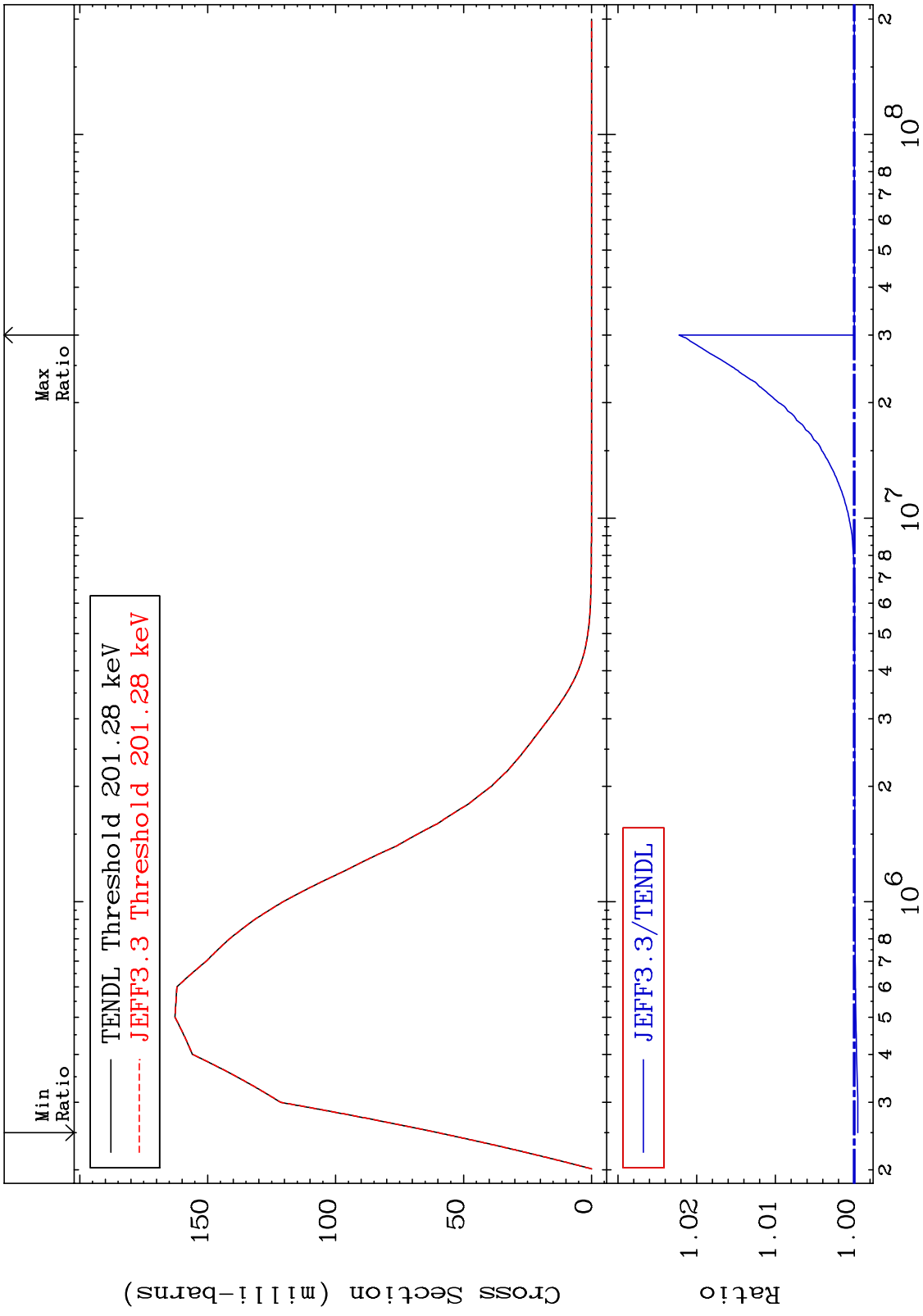
MAT 3325 (n,2n) p 33-As-75
 Cross Section 0.000 To 1.977 %



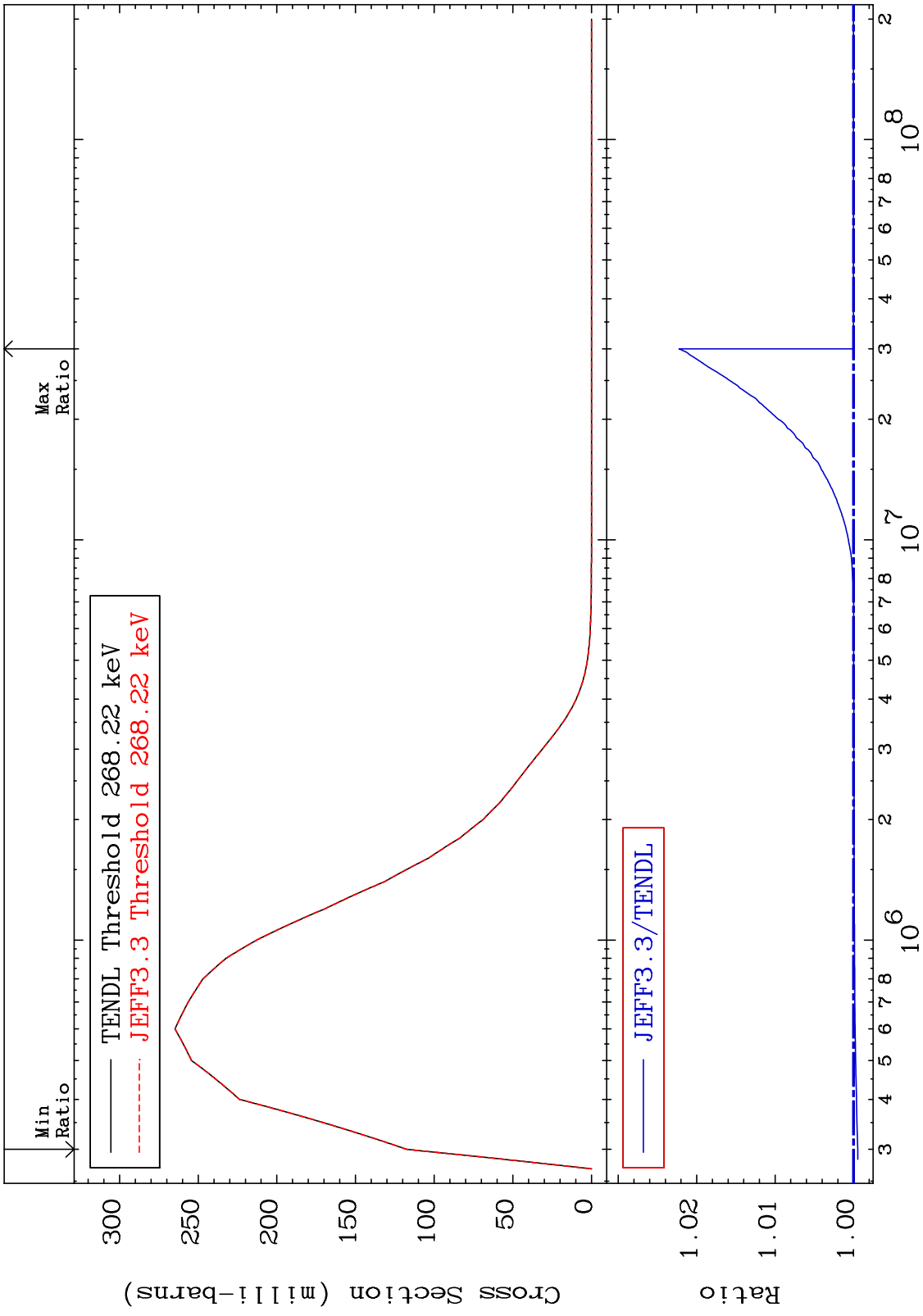
MAT 3325 (n,n') p α Cross Section 33-As-75
 -26.58 To 826.7 %



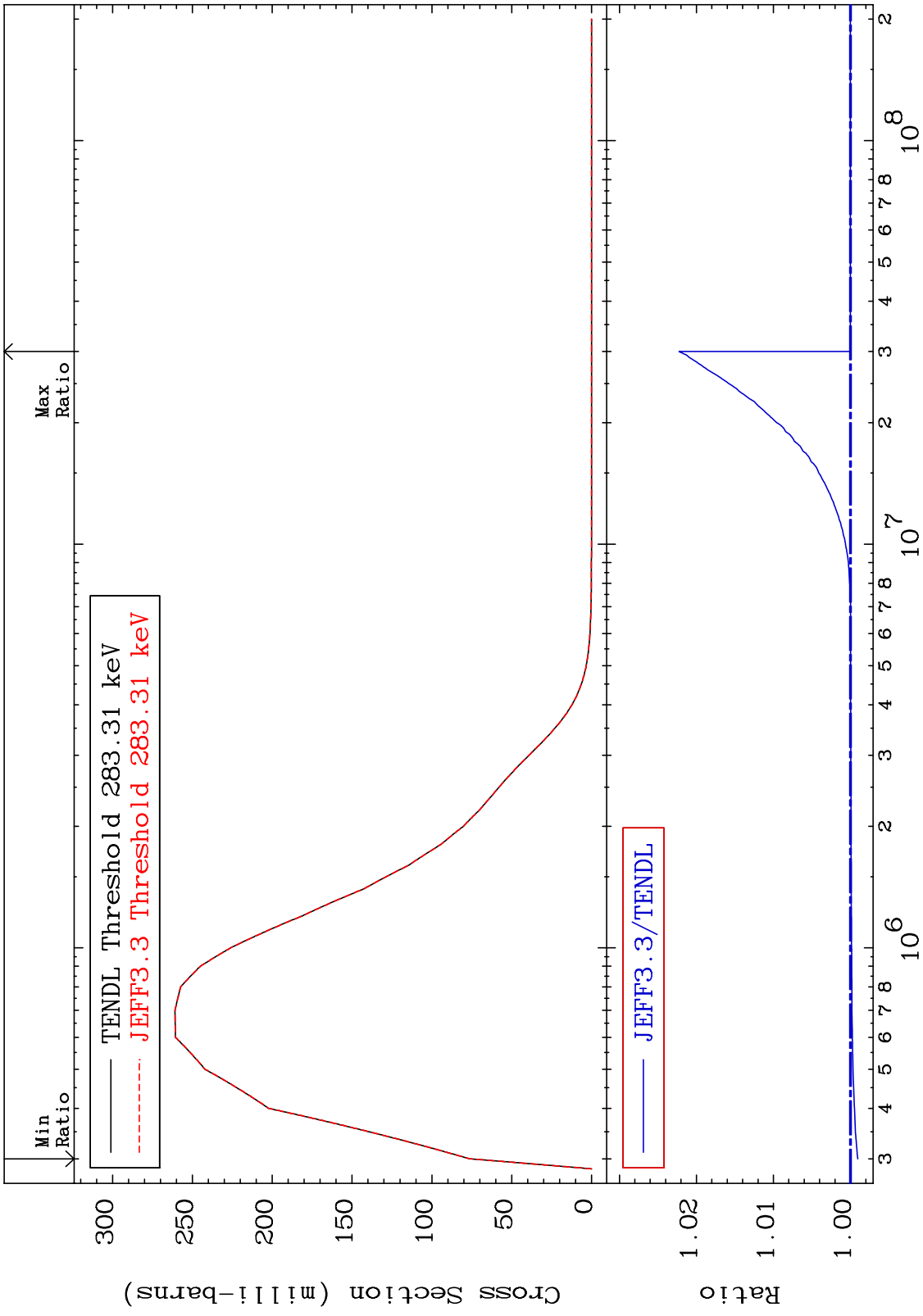
MAT 3325 MT= 51 (n,n') Level Cross Section 33-As-75
 -0.046 To 2.225 %



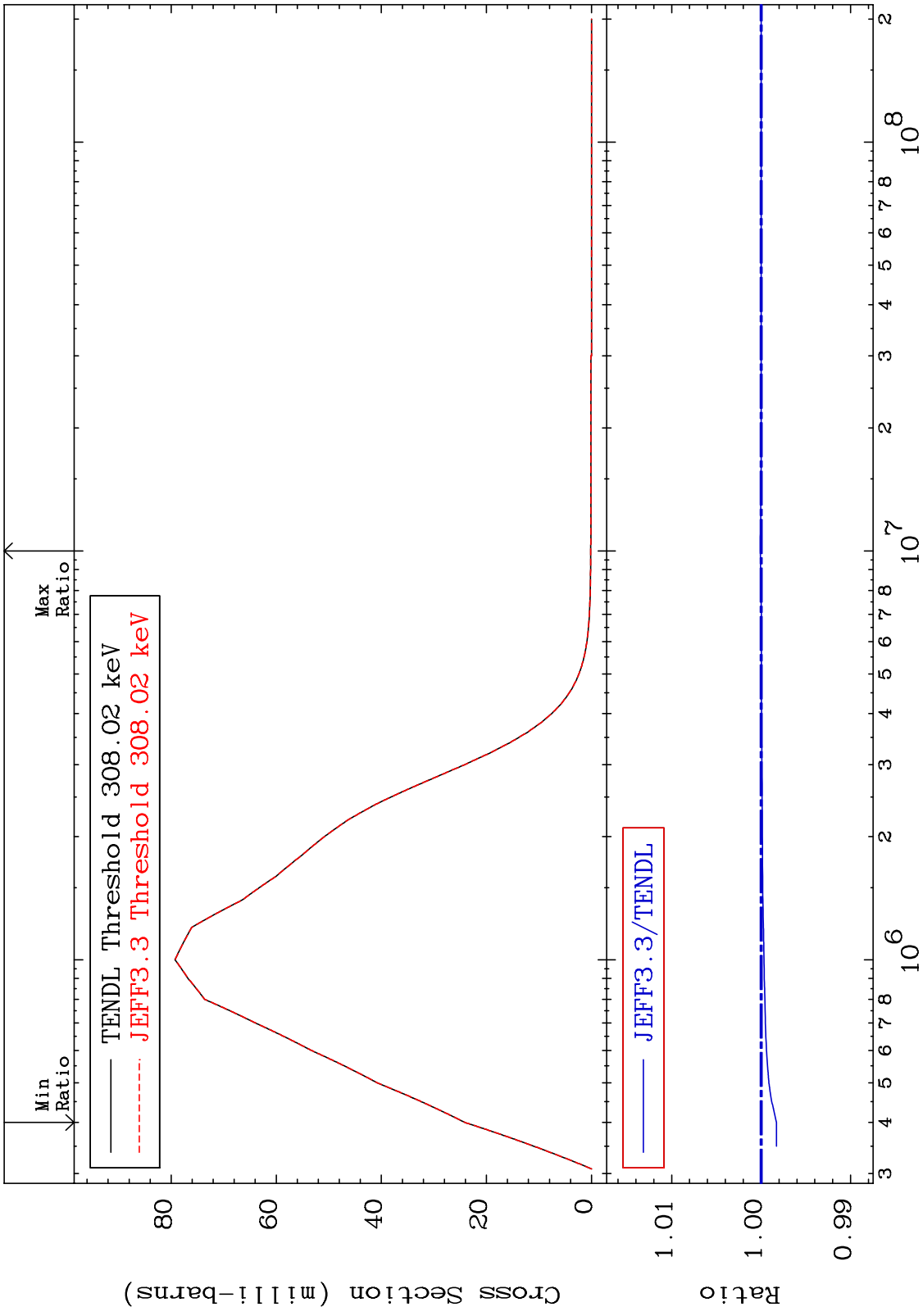
MAT 3325 MT= 52 (n,n') Level Cross Section 33-As-75
 -0.055 To 2.225 %



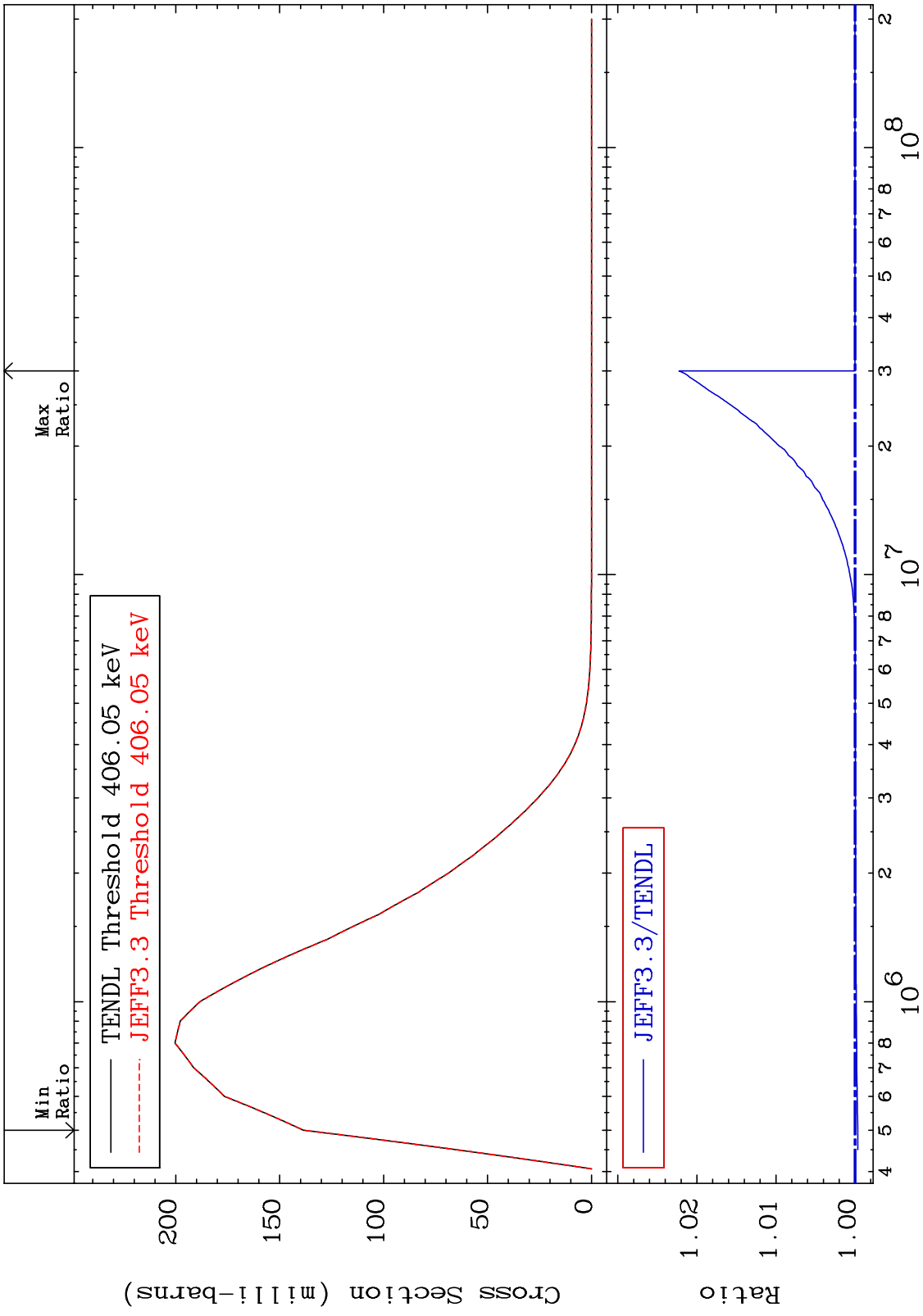
MAT 3325 MT= 53 (n,n') Level Cross Section 33-As-75
 -0.097 To 2.226 %



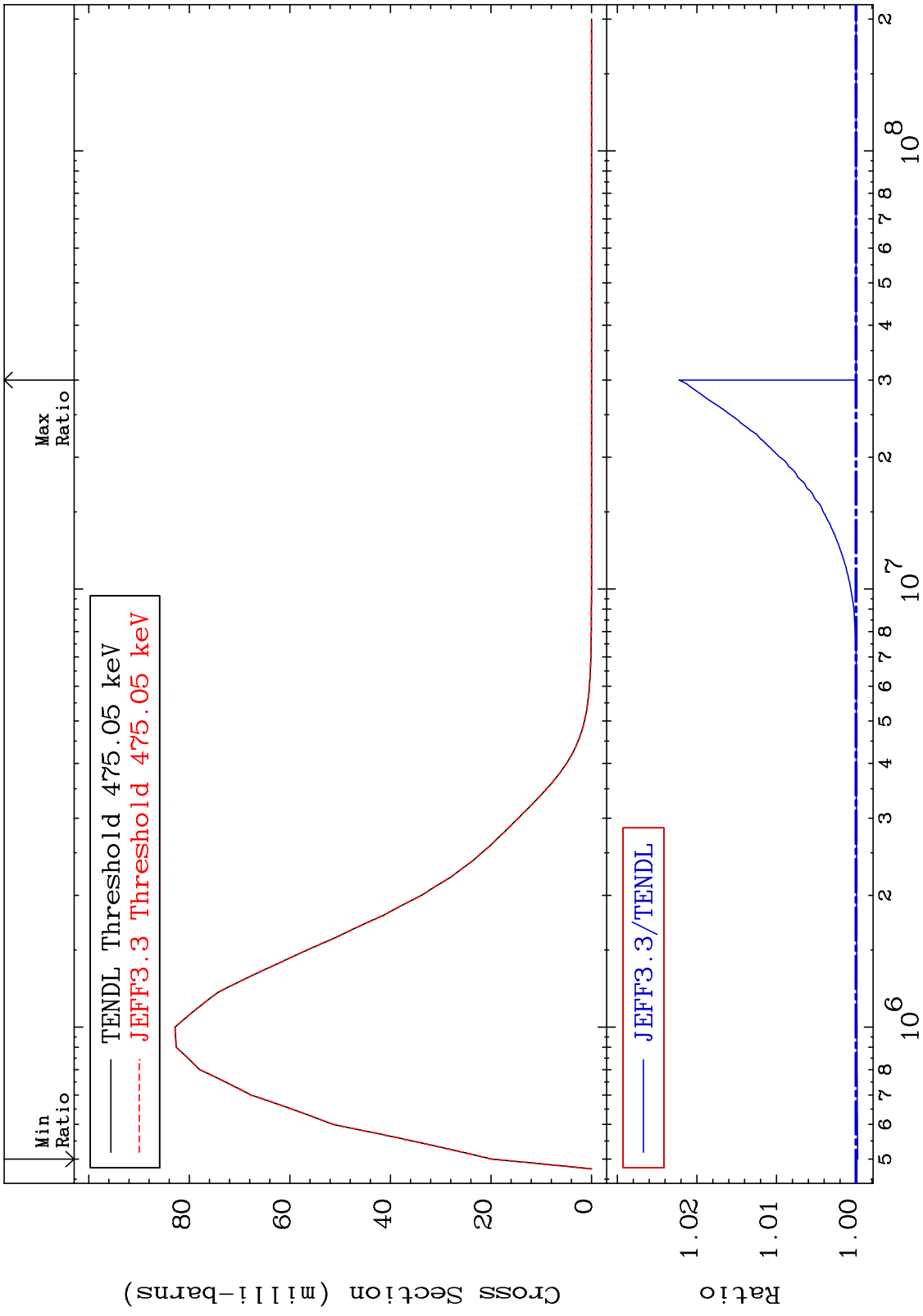
MAT 3325 MT= 54 (n, n') Level Cross Section -0.172 To 0.009 % 33-As-75



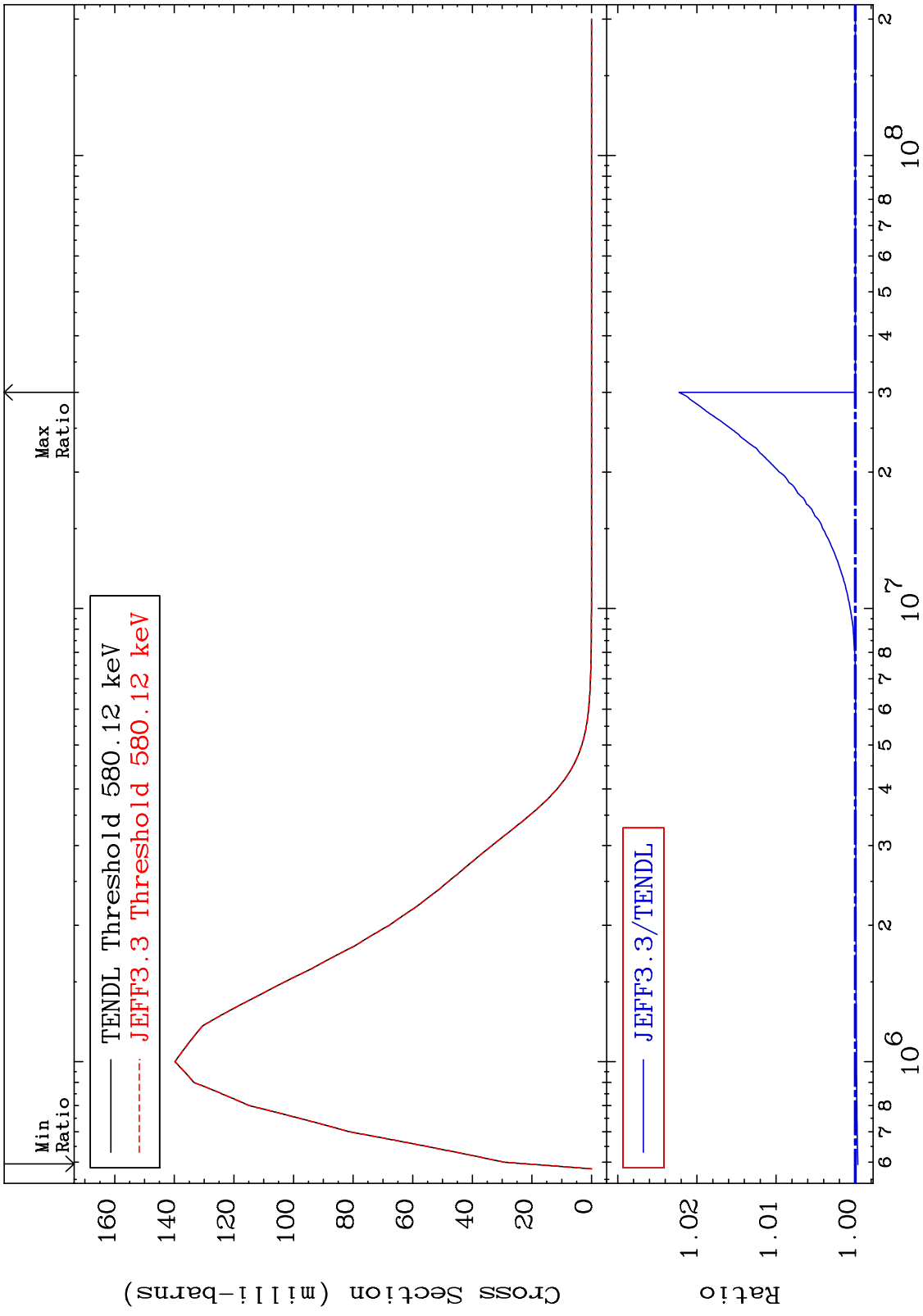
MAT 3325 MT= 55 (n,n') Level Cross Section 33-As-75
 -0.036 To 2.226 %



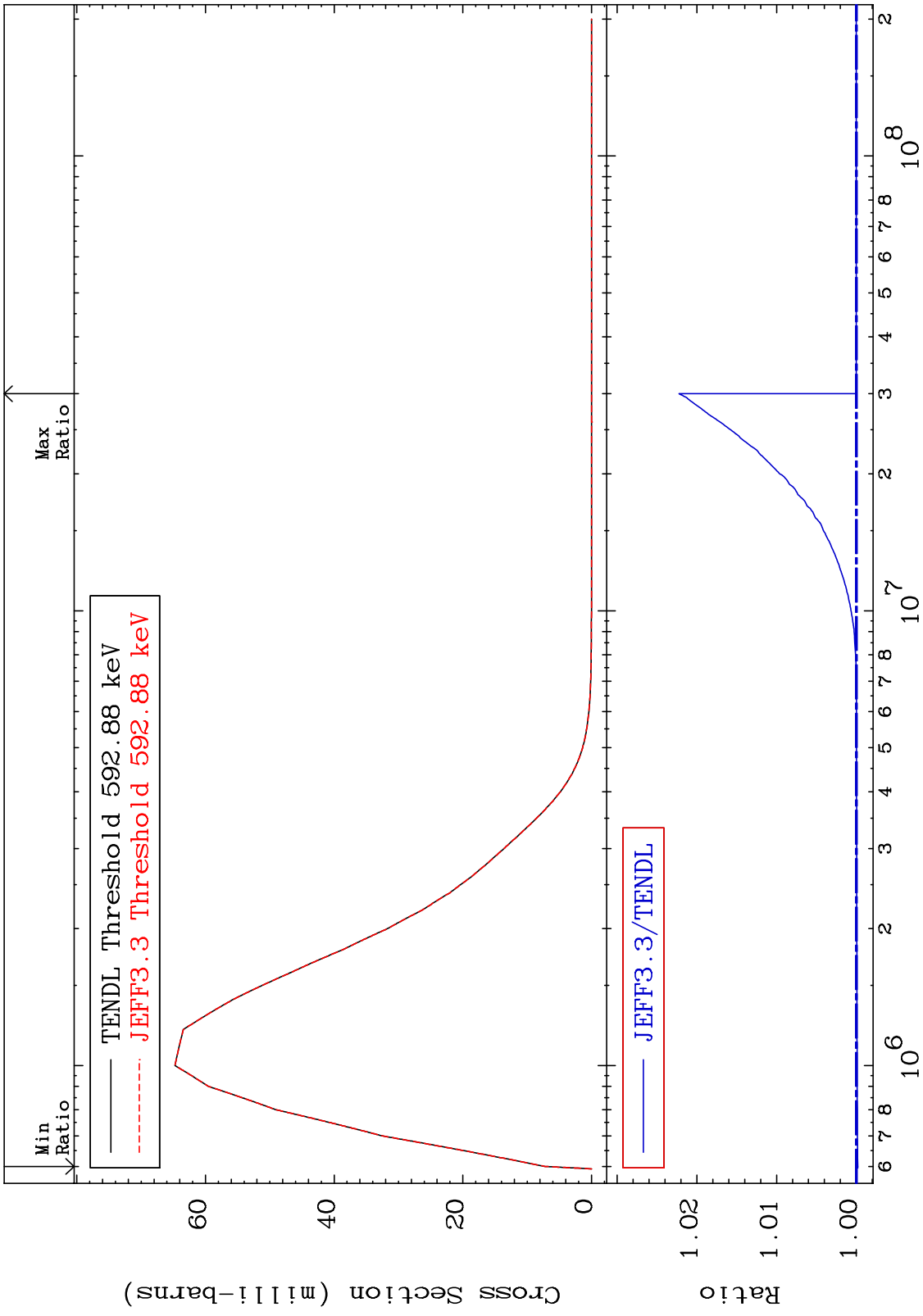
MAT 3325 MT= 56 (n,n') Level Cross Section 33-As-75
 -0.023 To 2.224 %



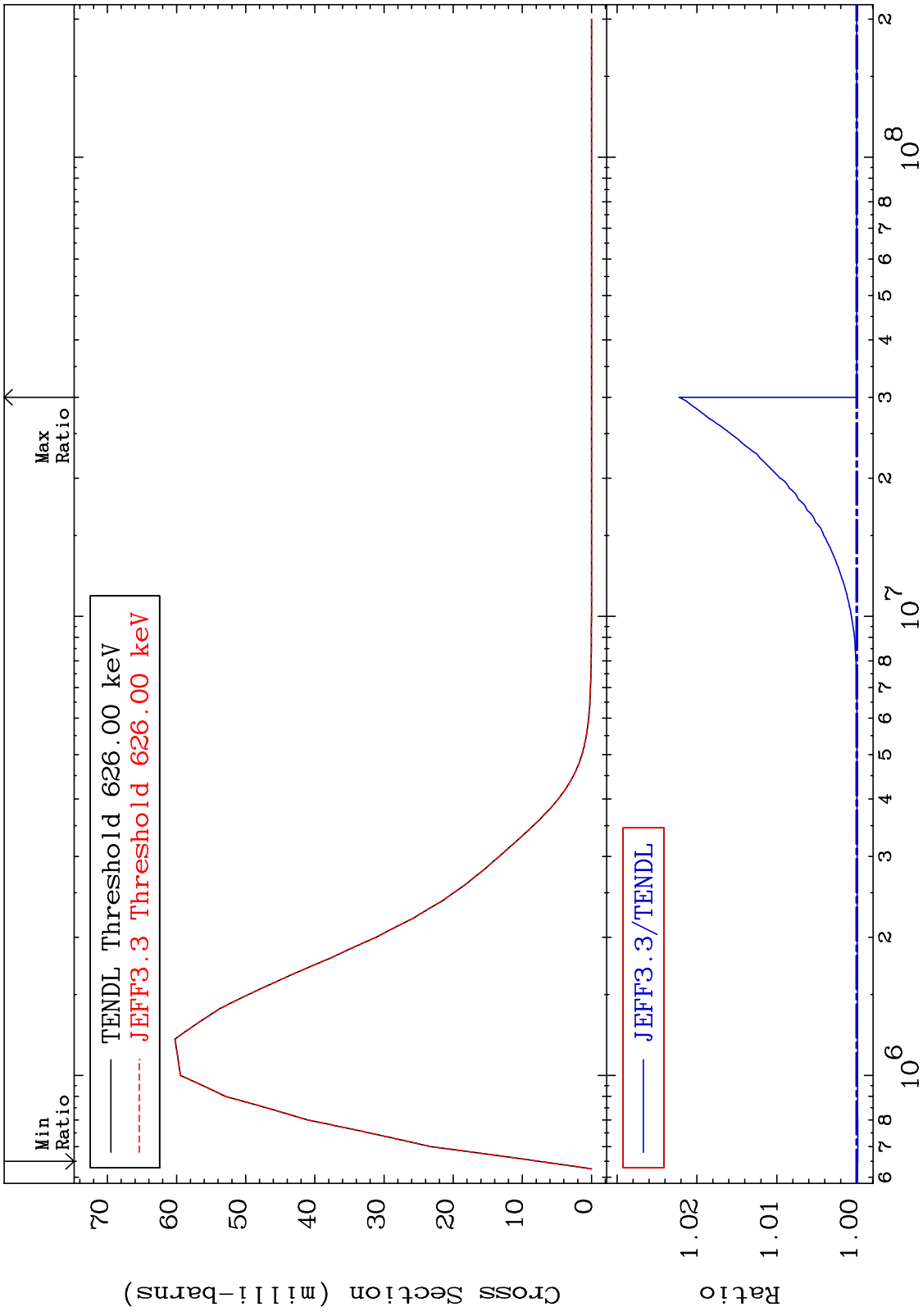
MAT 3325 MT= 57 (n,n') Level Cross Section 33-As-75
 -0.032 To 2.226 %



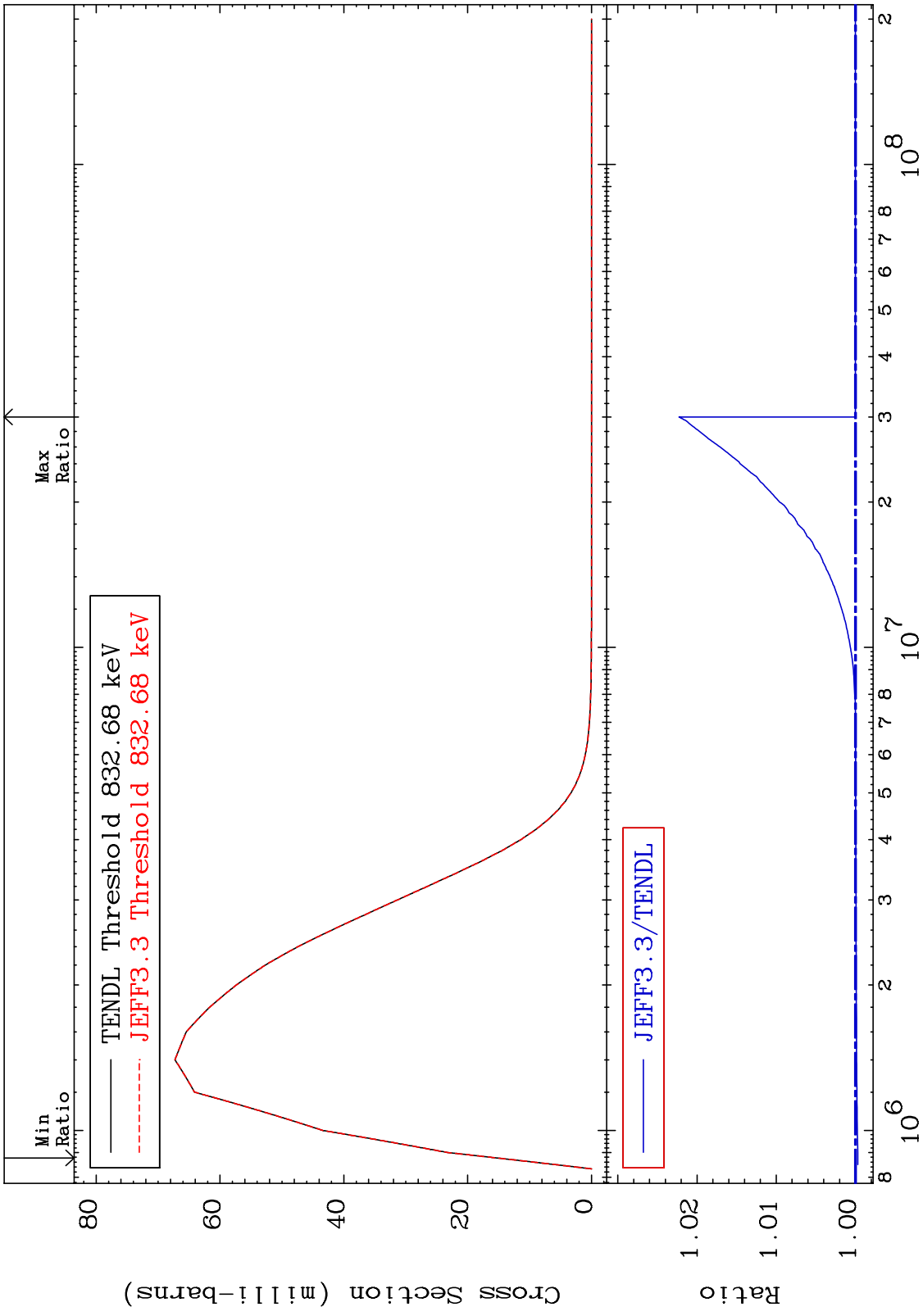
MAT 3325 MT= 58 (n,n') Level Cross Section 33-As-75
 -0.019 To 2.224 %



MAT 3325 MT= 59 (n,n') Level Cross Section 33-As-75
 -0.014 To 2.224 %

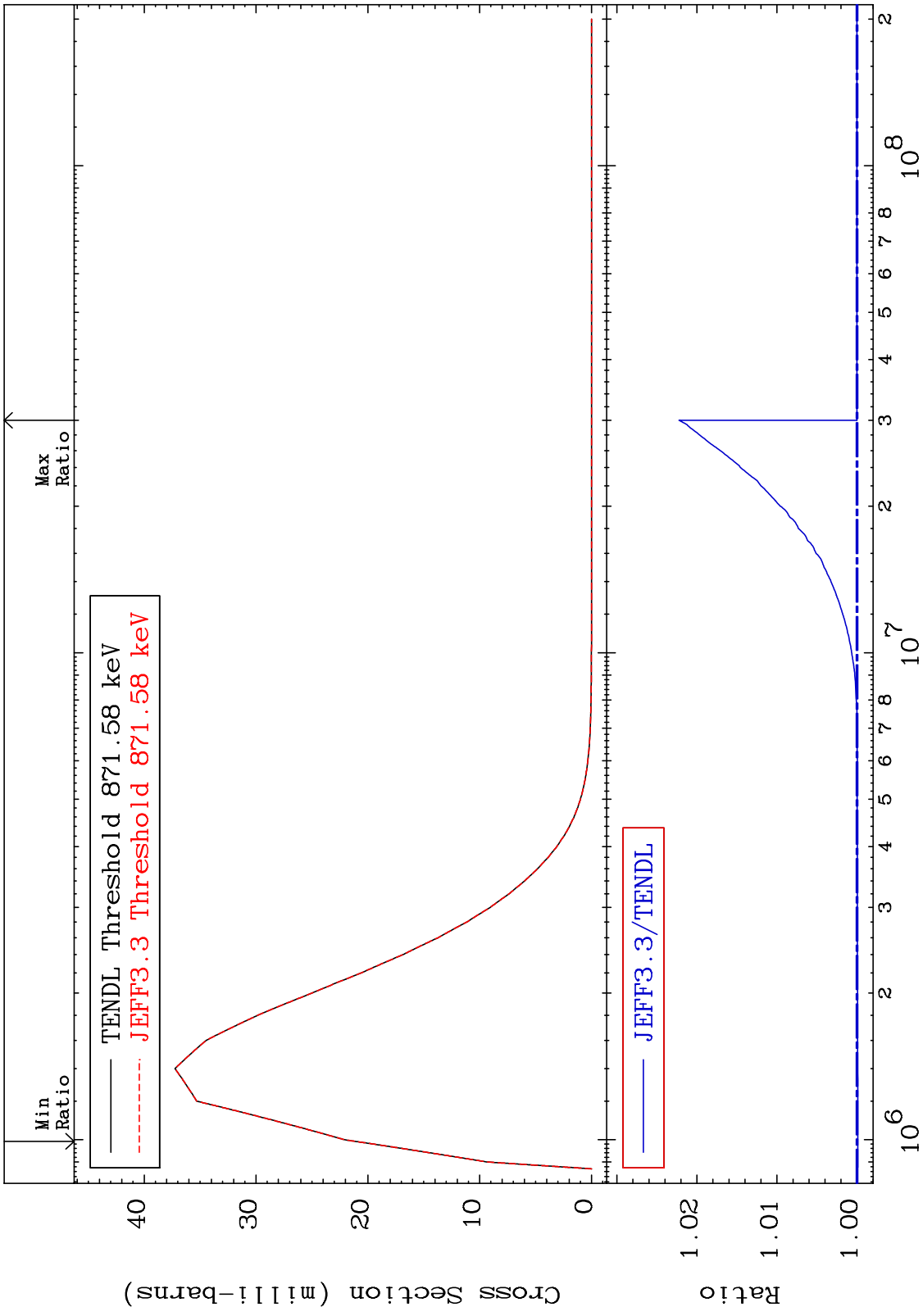


MAT 3325 MT= 60 (n,n') Level Cross Section 33-As-75
 -0.030 To 2.227 %

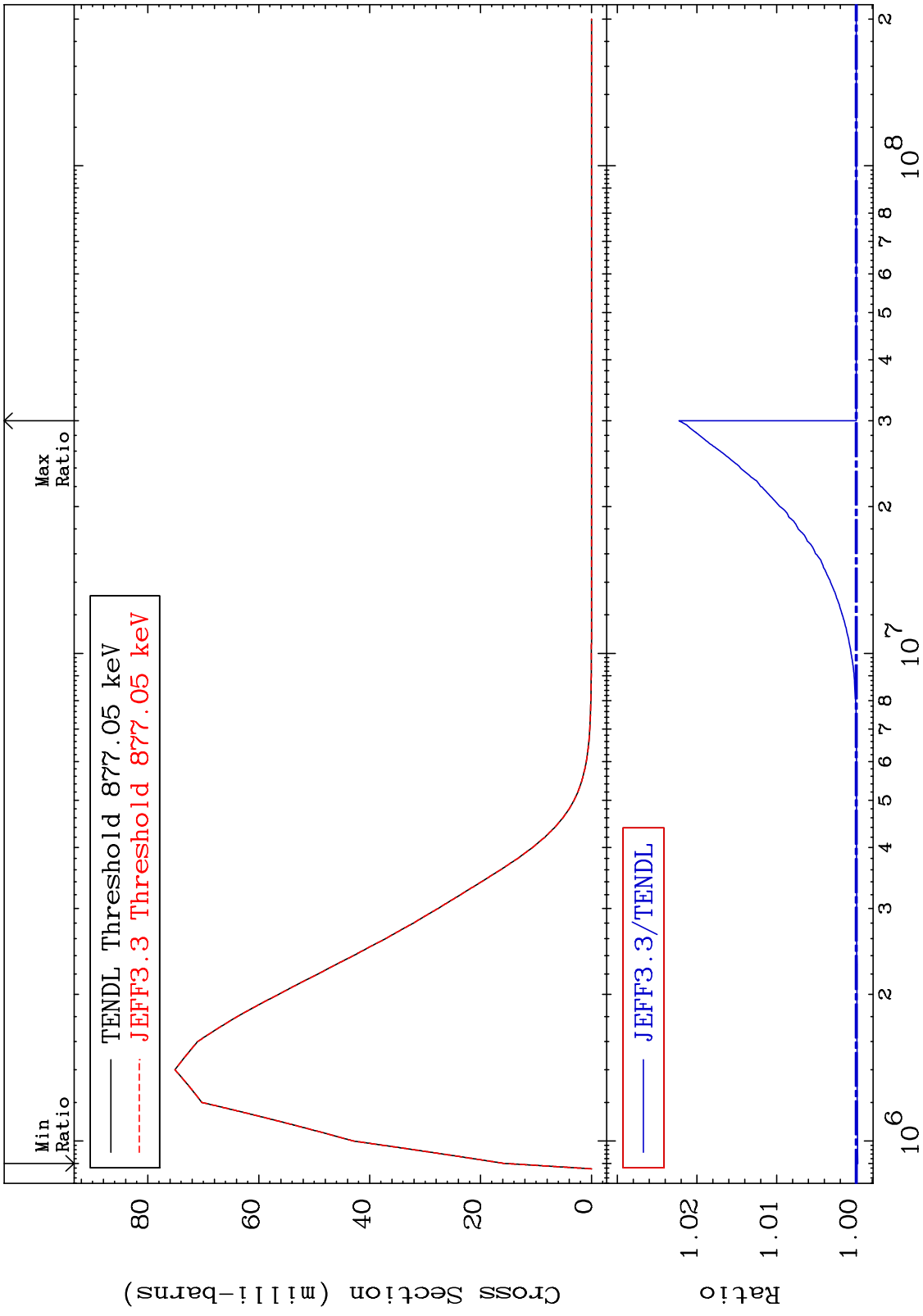


30 33-As-75

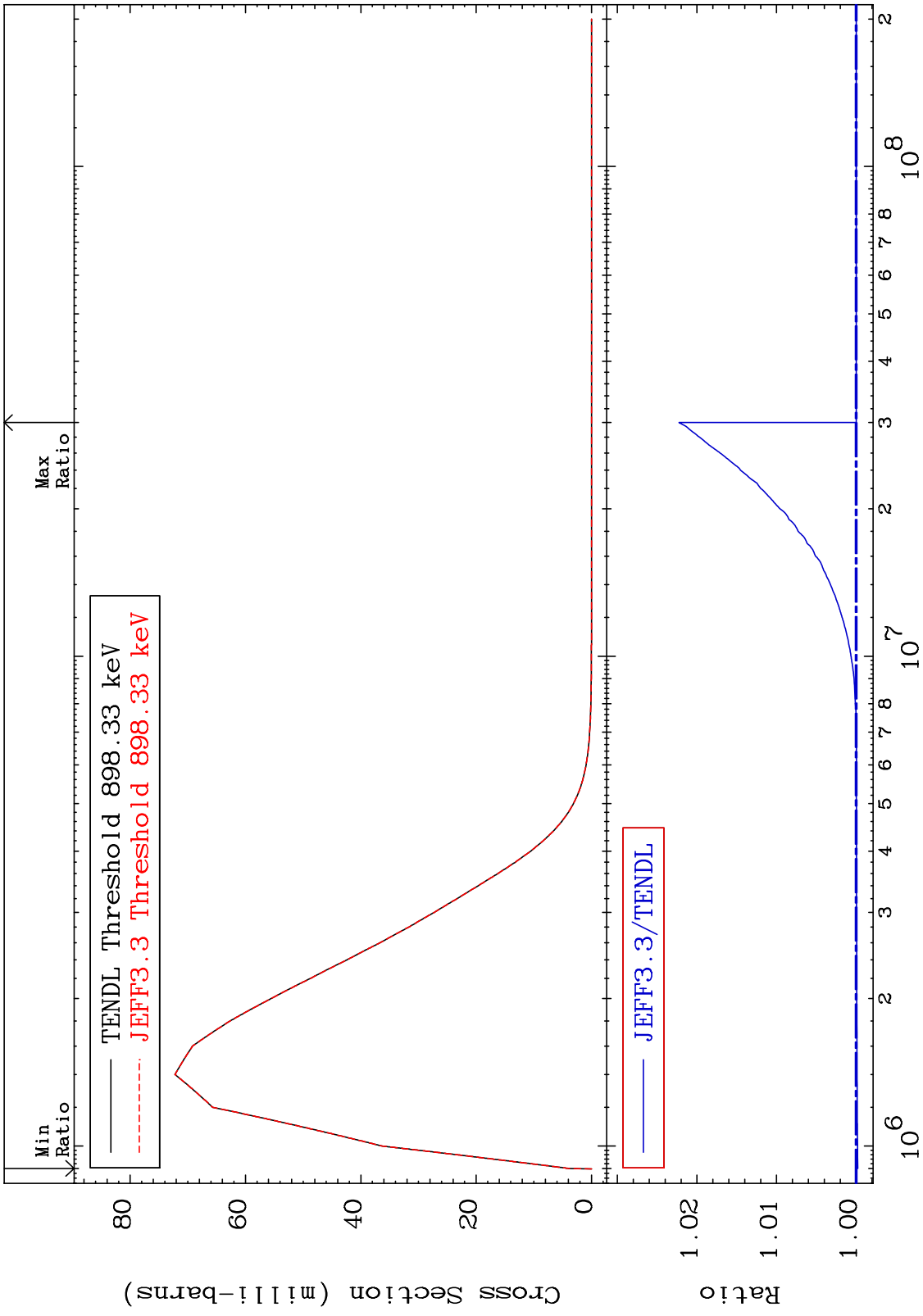
MAT 3325 MT= 61 (n,n') Level Cross Section 33-As-75
 -0.010 To 2.224 %



MAT 3325 MT= 62 (n,n') Level Cross Section 33-As-75
 -0.020 To 2.226 %

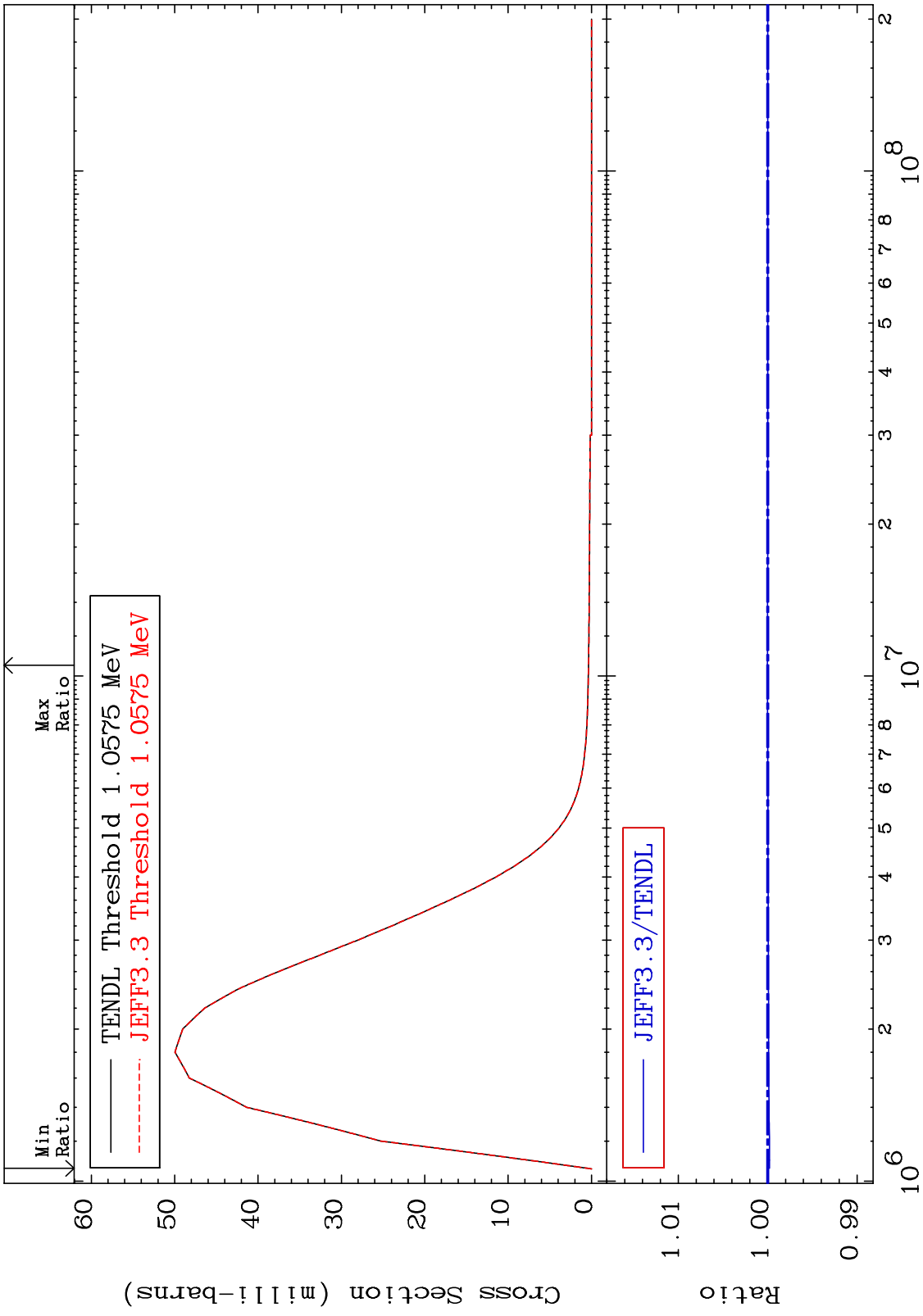


MAT 3325 MT= 63 (n,n') Level Cross Section 33-As-75
-0.021 To 2.226 %



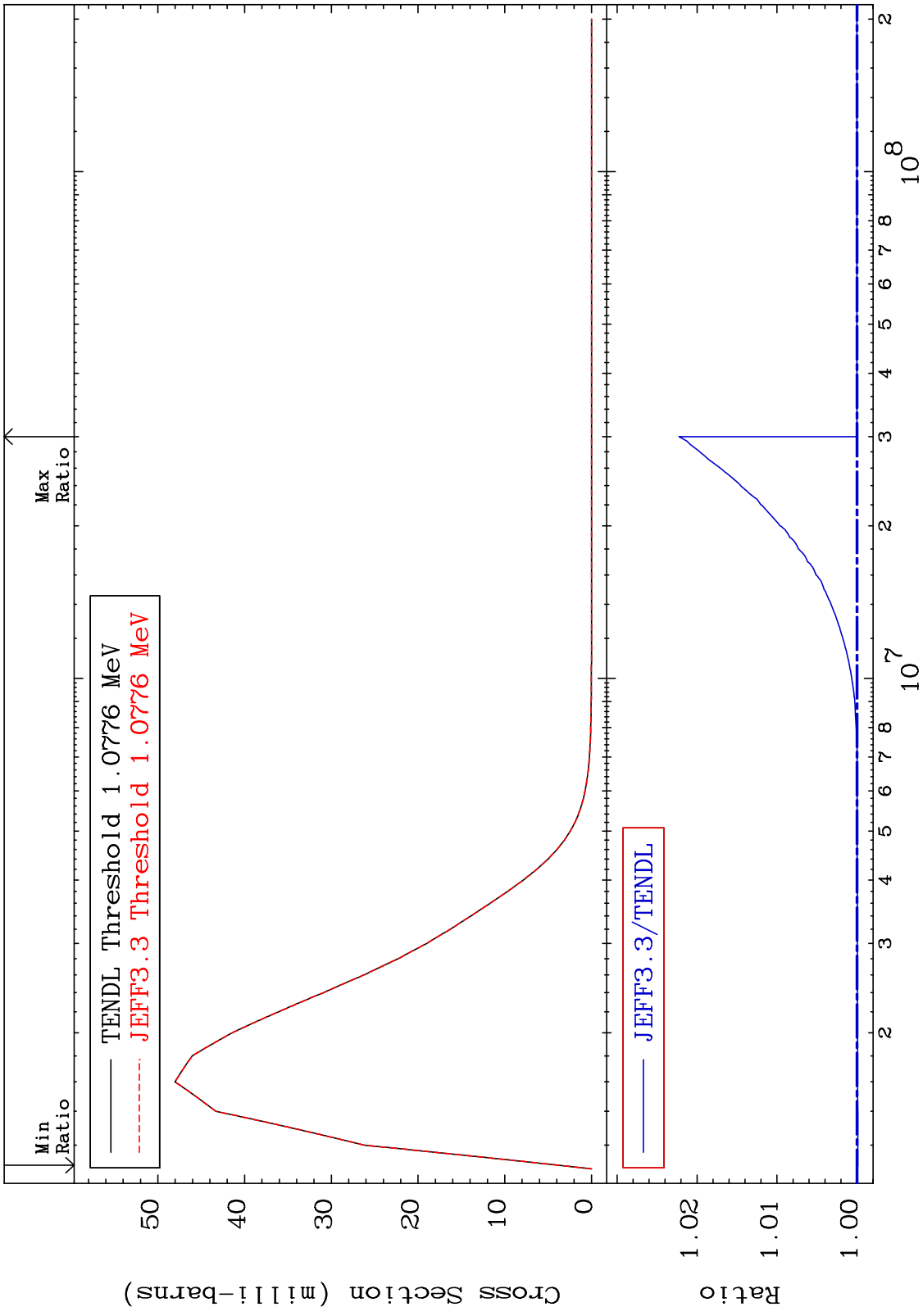
33 33-As-75

MAT 3325 MT= 64 (n,n') Level Cross Section 33-As-75
 -0.020 To 0.004 %

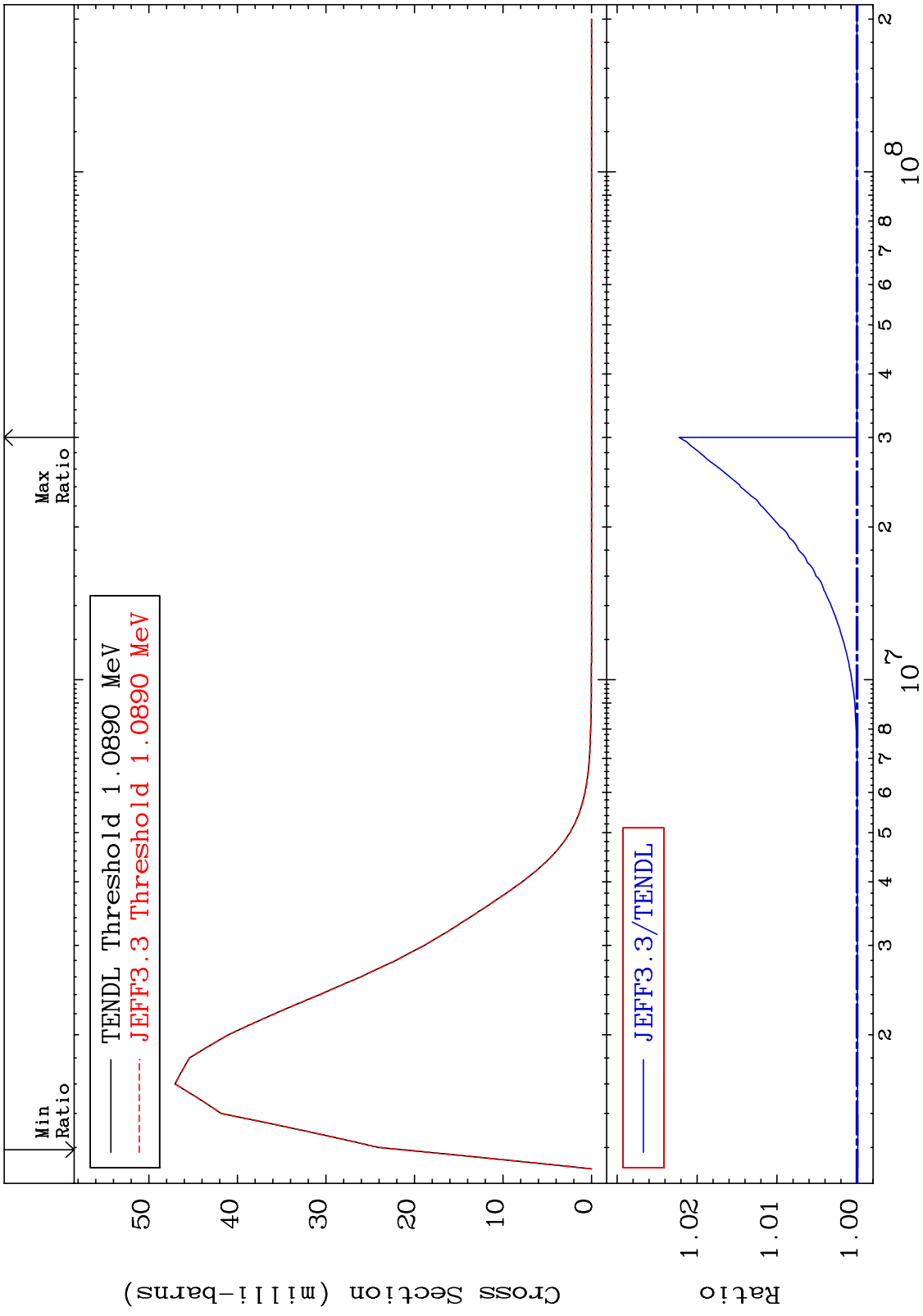


34 33-As-75

MAT 3325 MT= 65 (n,n') Level Cross Section 33-As-75
 -0.011 To 2.225 %



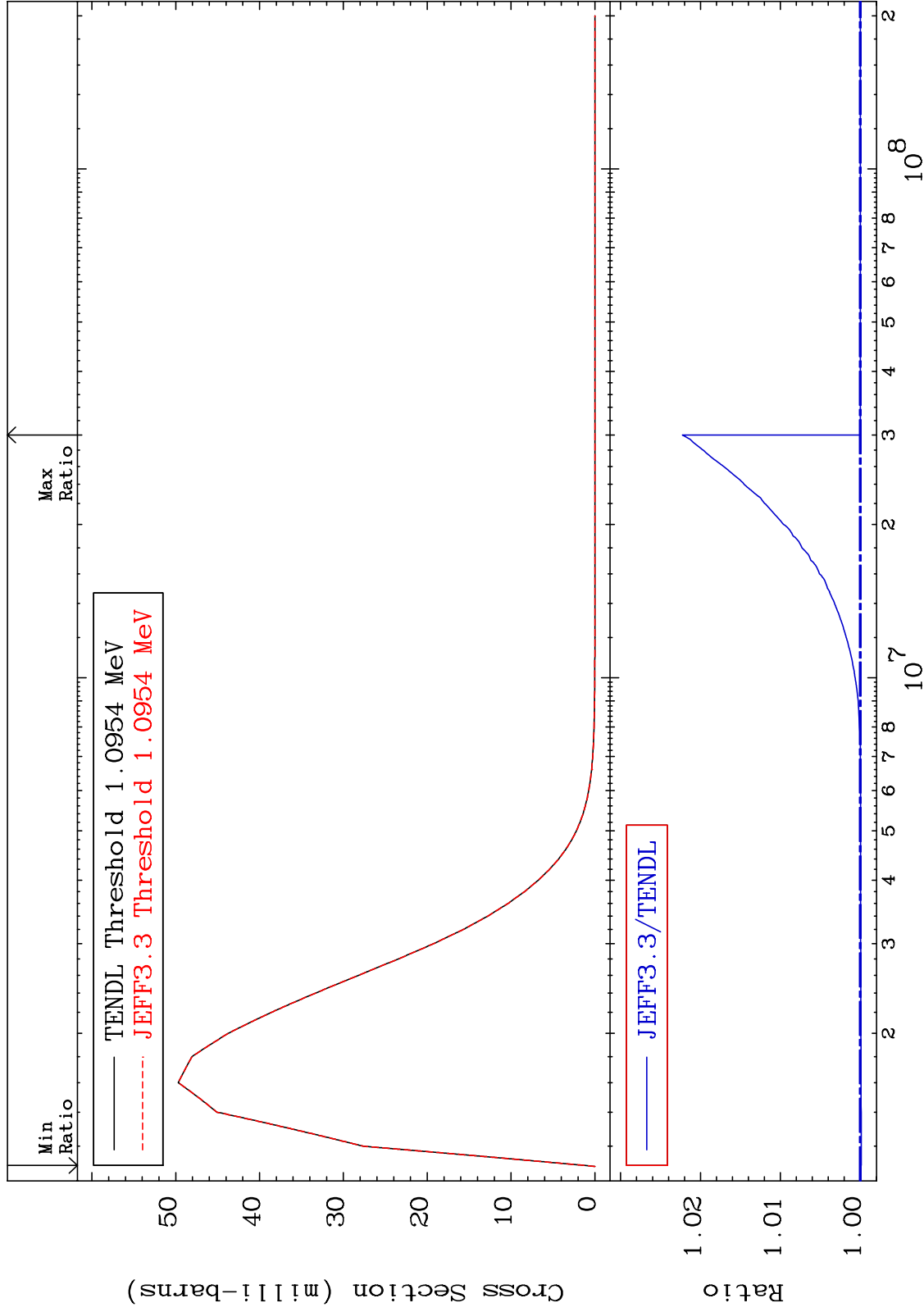
MAT 3325 MT= 66 (n,n') Level Cross Section 33-As-75
 -0.011 To 2.225 %



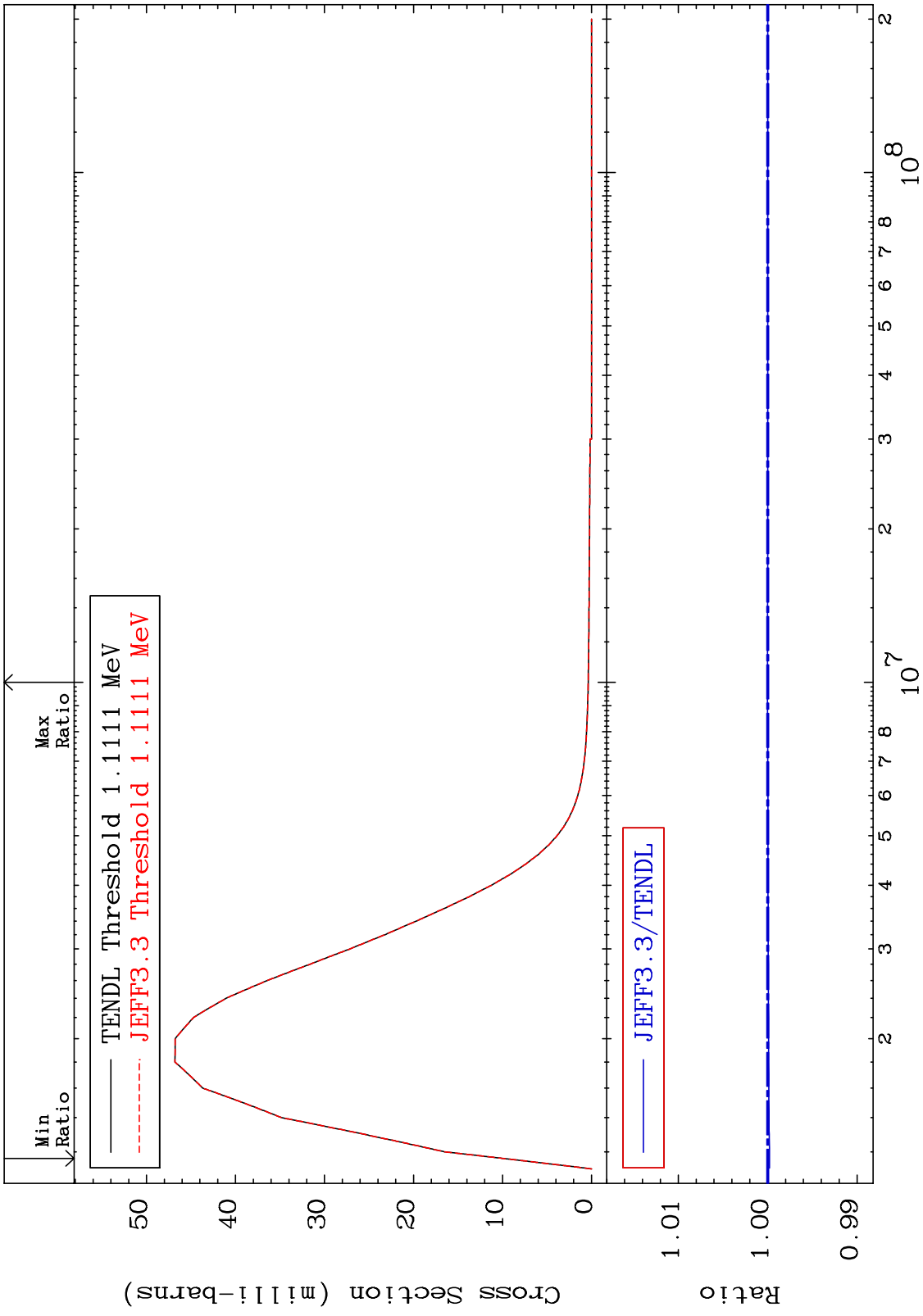
MAT 3325

MT= 67 (n,n') Level
Cross Section

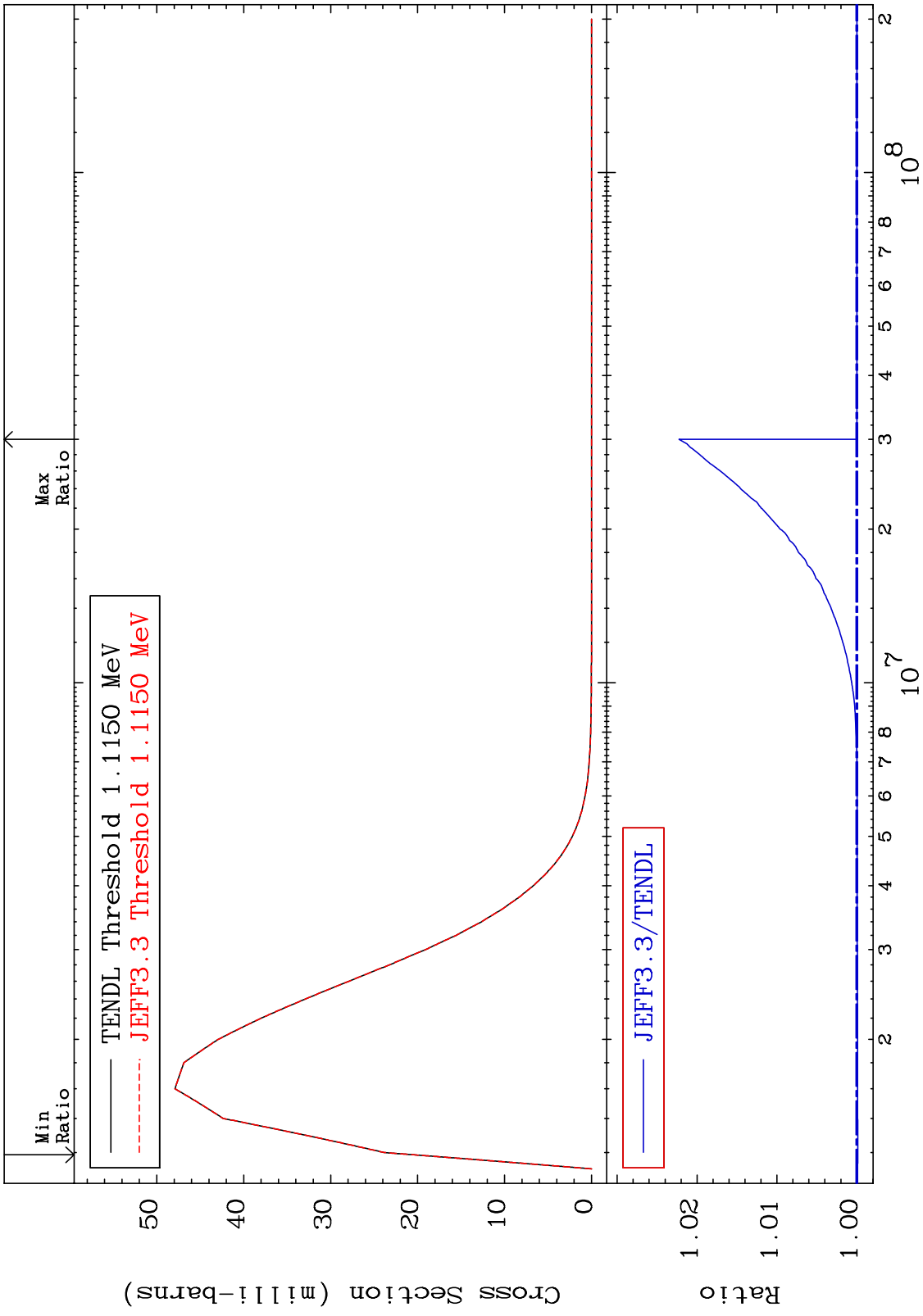
33-As-75
-0.013 To 2.226 %



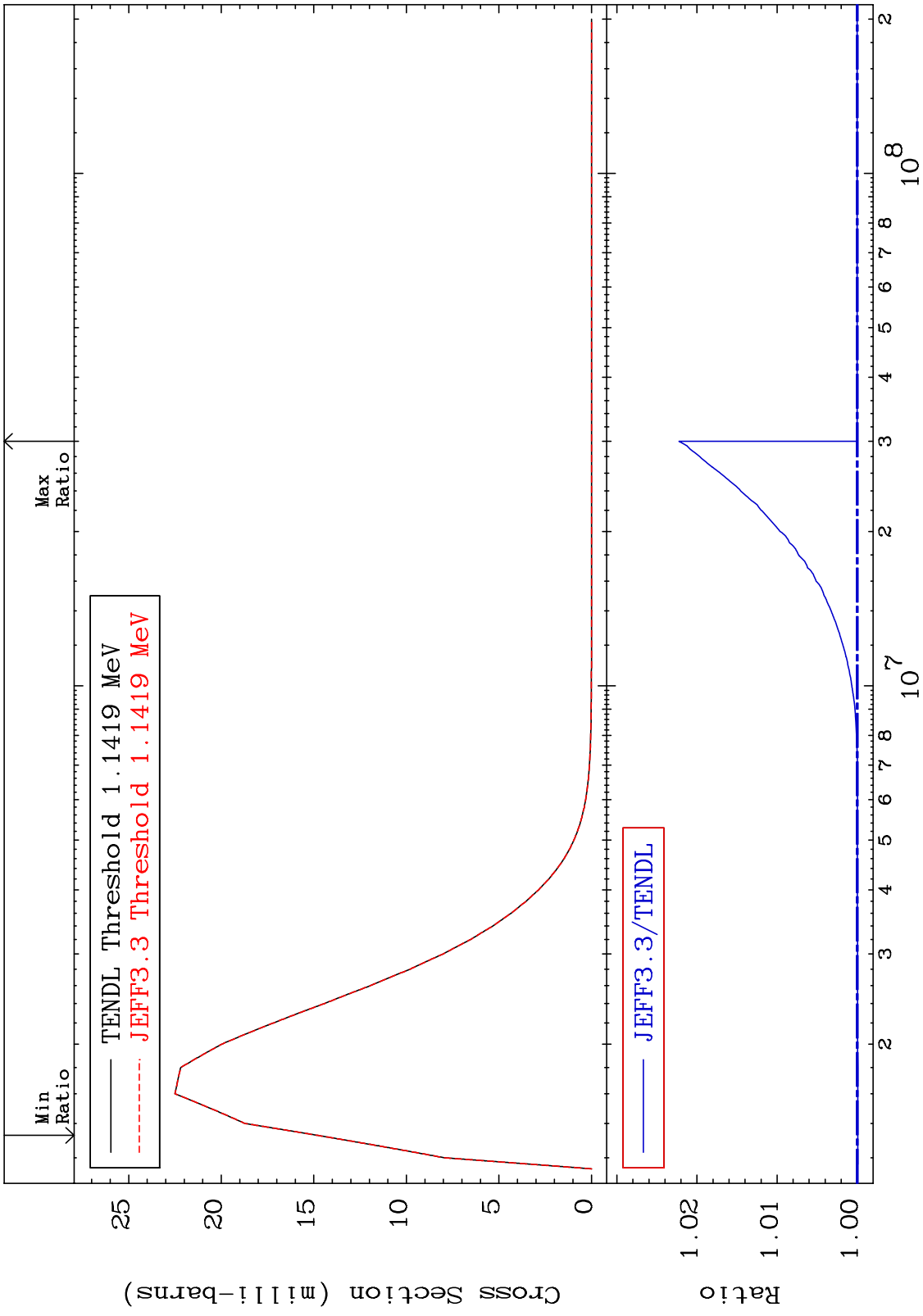
MAT 3325 MT= 68 (n,n') Level Cross Section 33-As-75
 -0.021 To 0.004 %



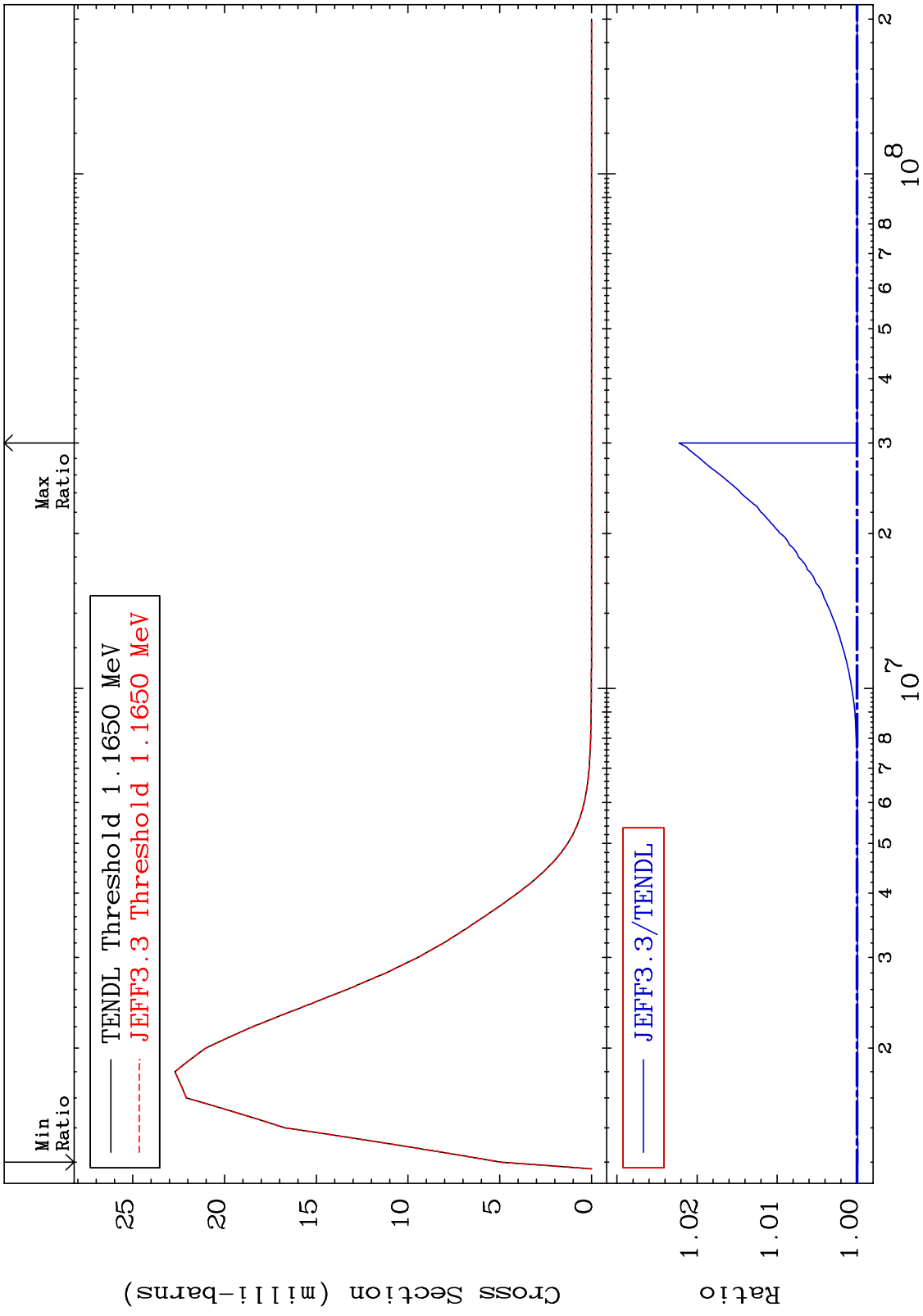
MAT 3325 MT= 69 (n,n') Level Cross Section 33-As-75
 -0.013 To 2.225 %



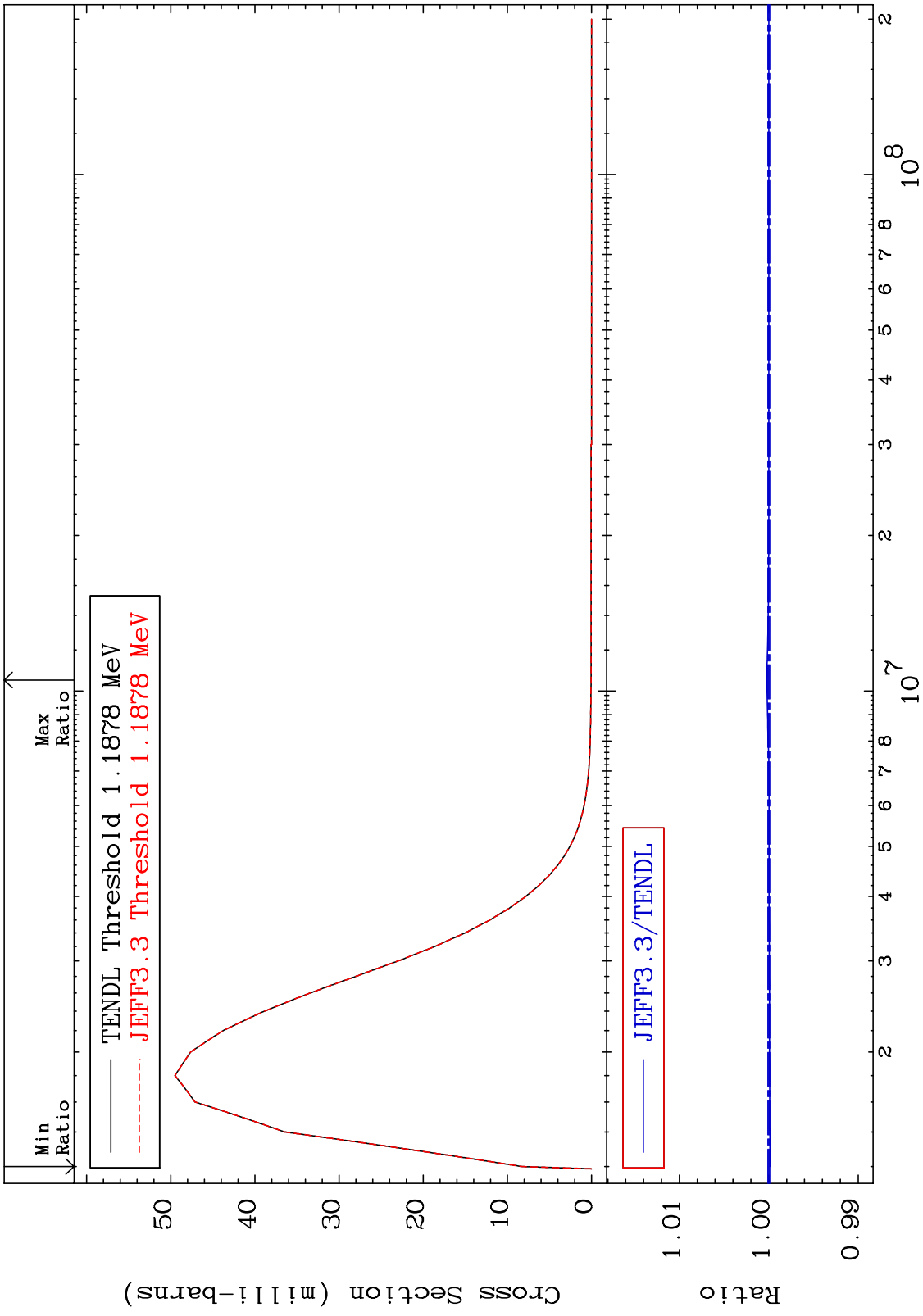
MAT 3325 MT= 70 (n,n') Level Cross Section 33-As-75
 -0.008 To 2.224 %



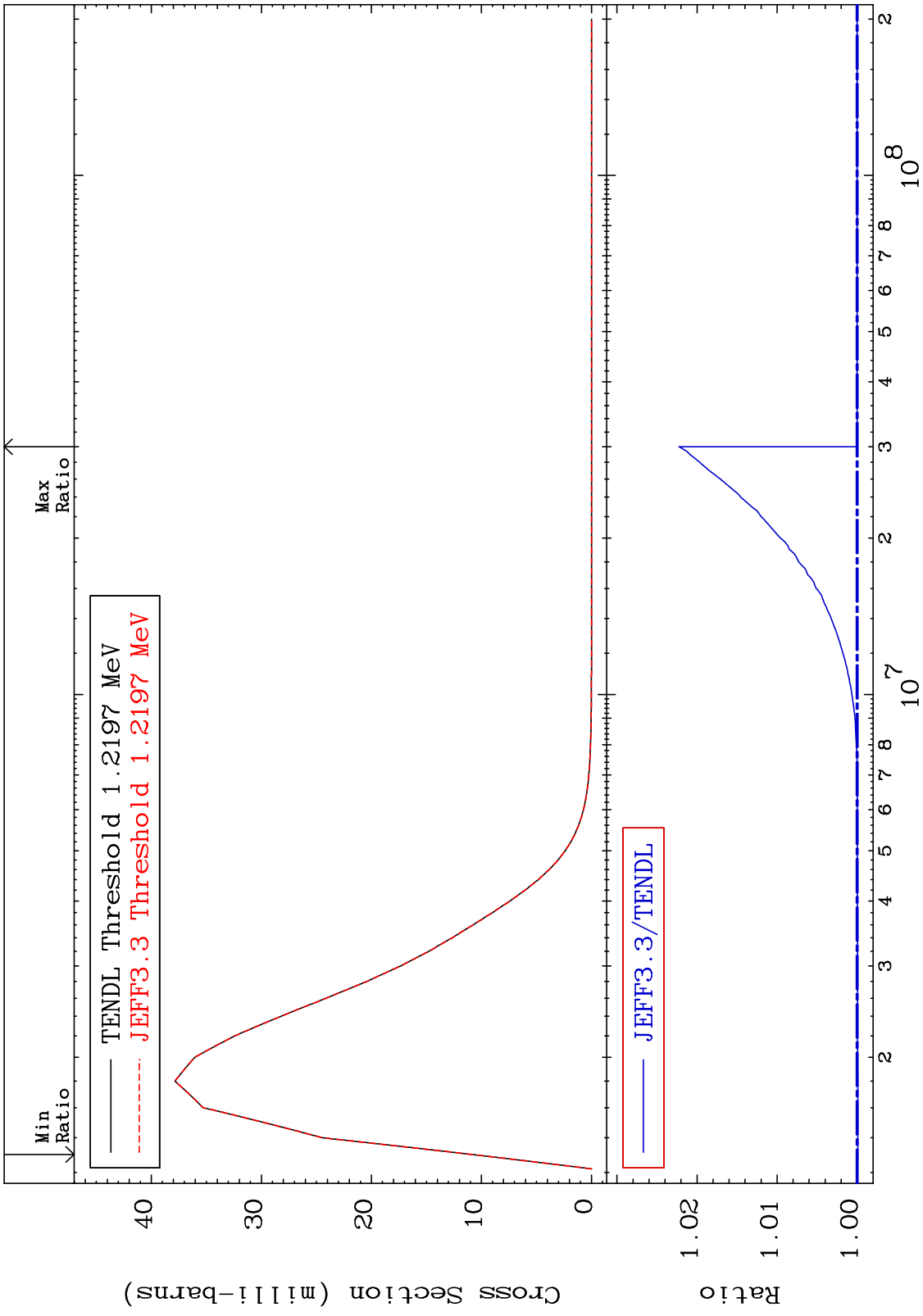
MAT 3325 MT= 71 (n,n') Level Cross Section 33-As-75
 -0.010 To 2.225 %



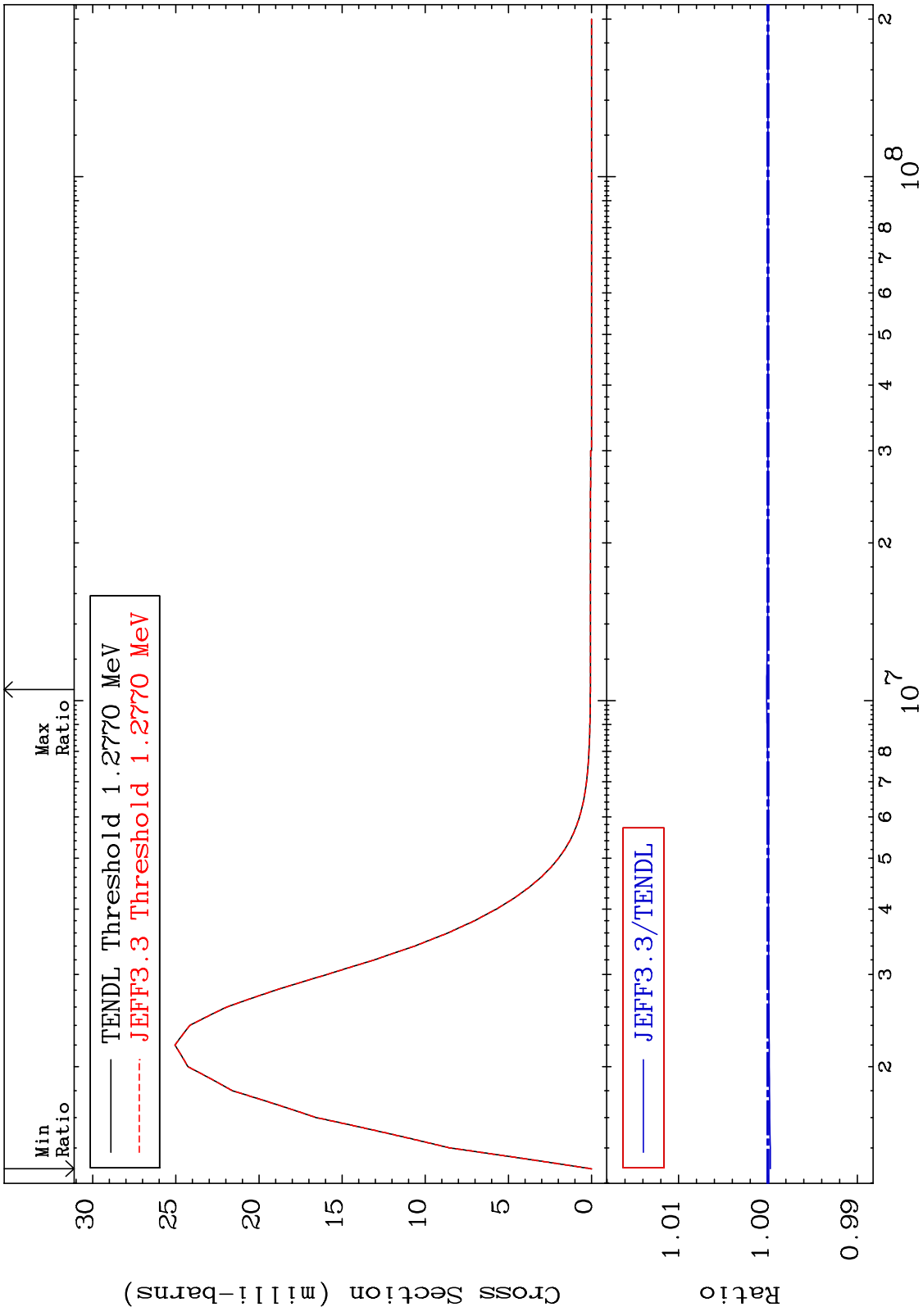
MAT 3325 MT= 72 (n,n') Level Cross Section 33-As-75
 -0.013 To 0.021 %



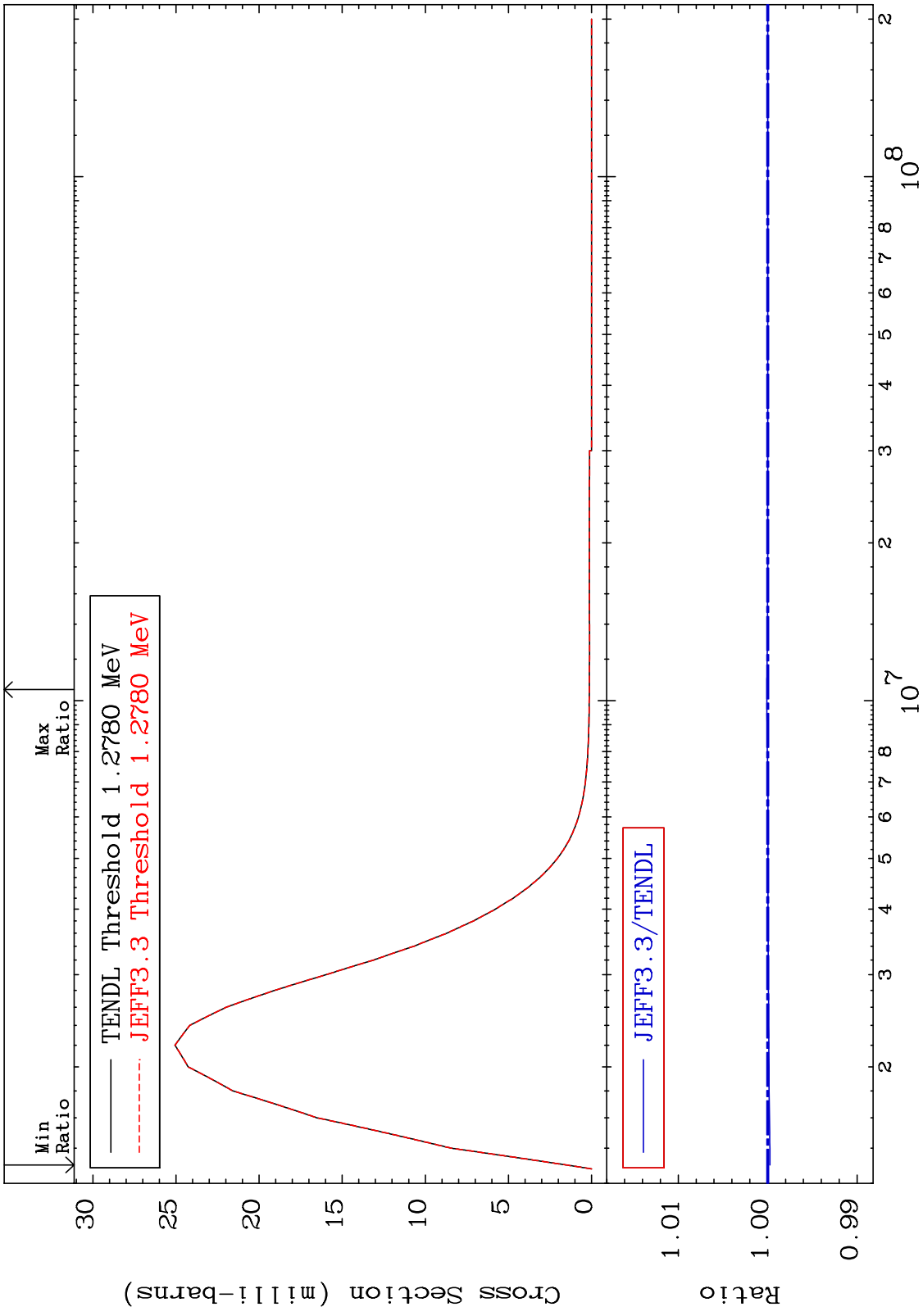
MAT 3325 MT= 73 (n,n') Level Cross Section 33-As-75
 -0.009 To 2.225 %



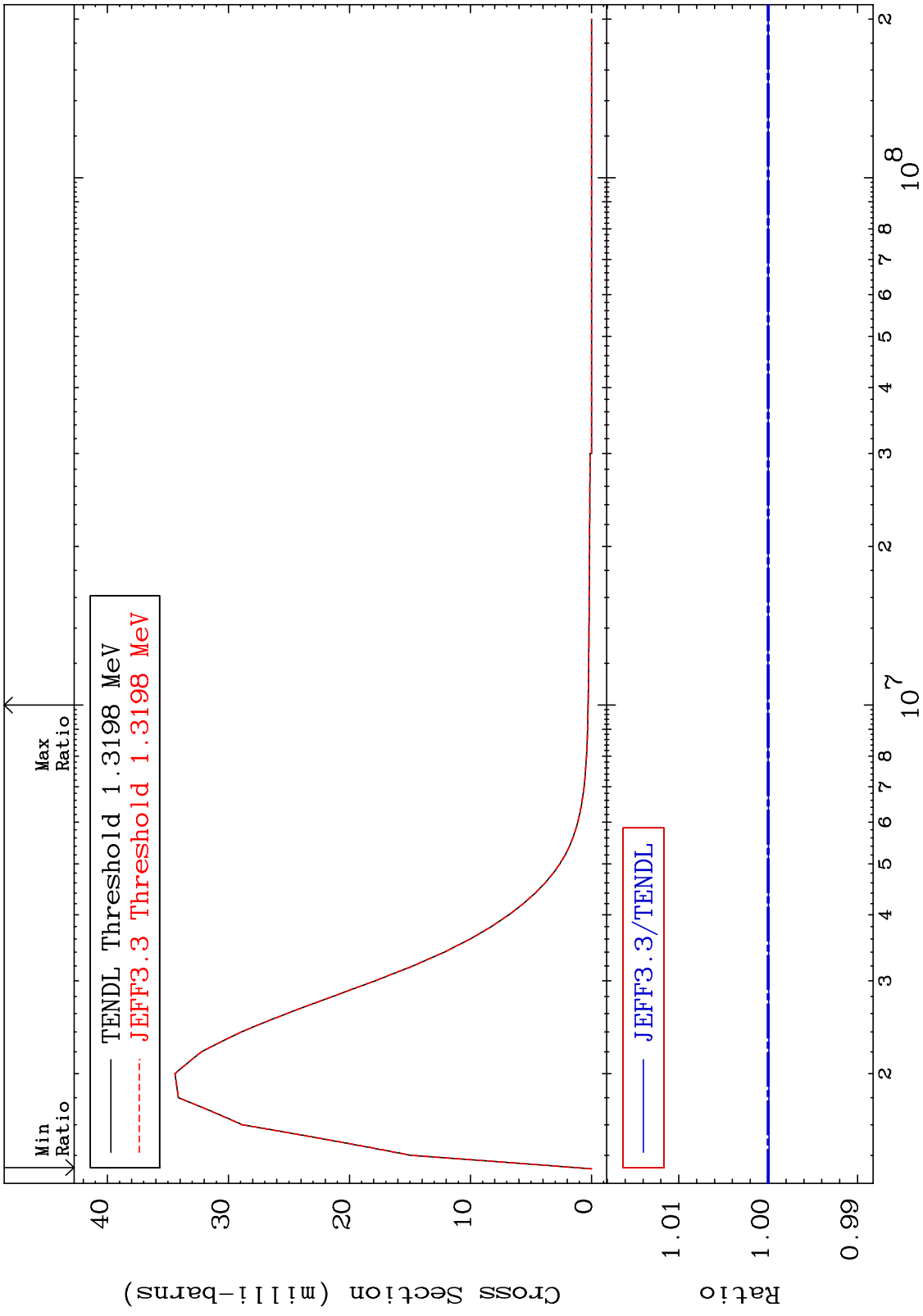
MAT 3325 MT= 74 (n,n') Level Cross Section 33-As-75
 -0.026 To 0.016 %



MAT 3325 MT= 75 (n,n') Level Cross Section 33-As-75
 -0.026 To 0.008 %



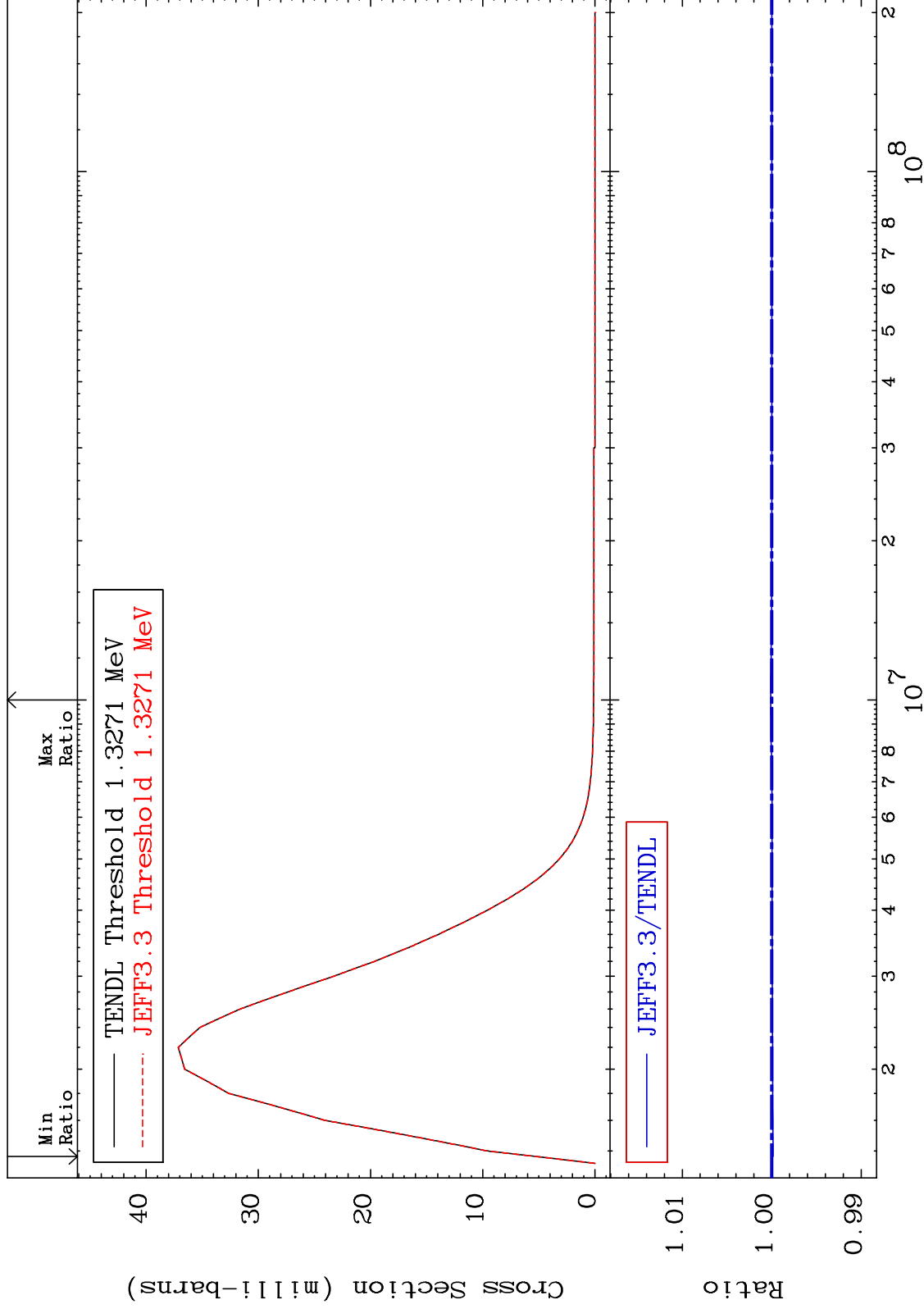
MAT 3325 MT= 76 (n,n') Level Cross Section 33-As-75
 -0.010 To 0.004 %



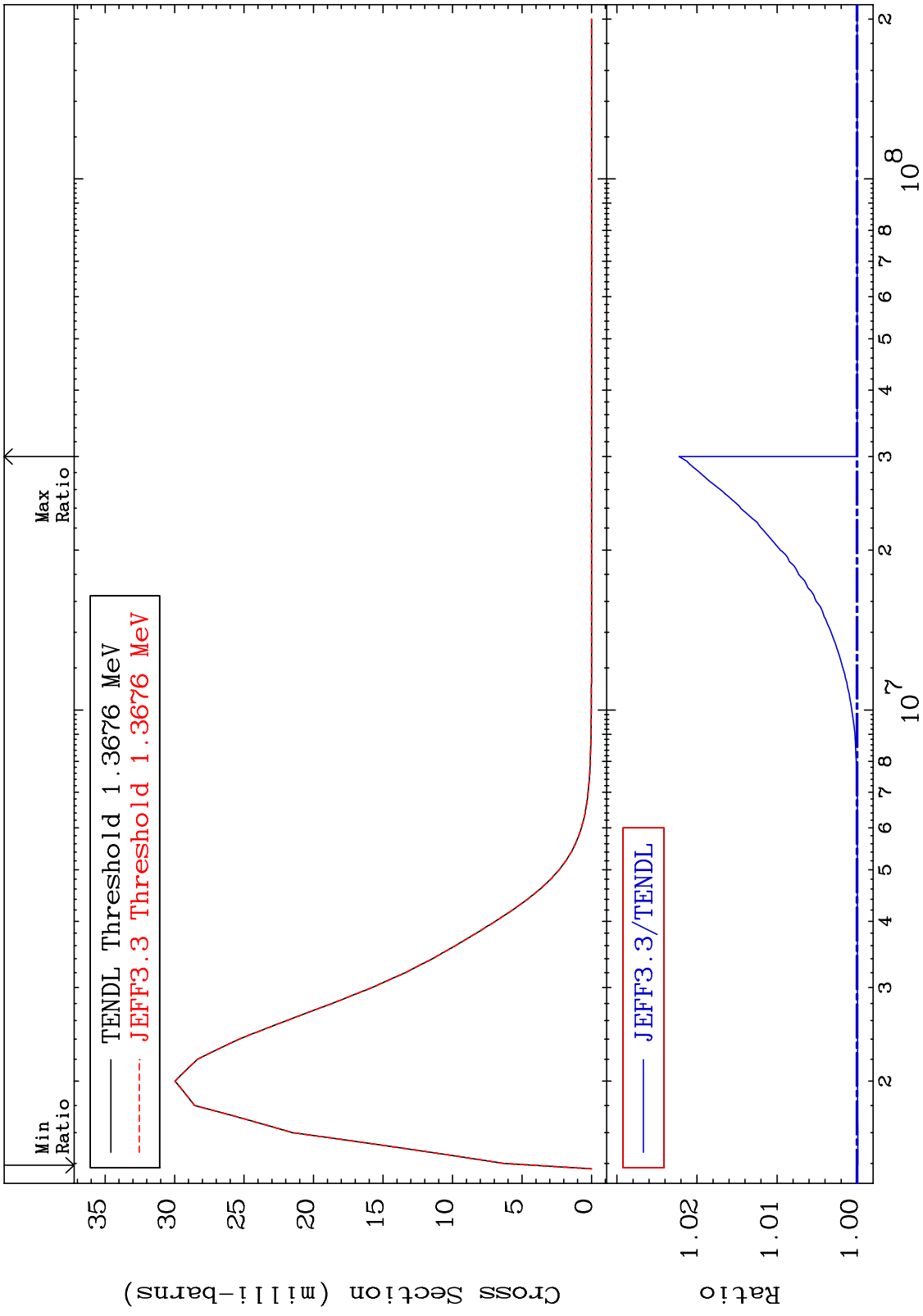
MAT 3325

MT= 77 (n,n') Level
Cross Section

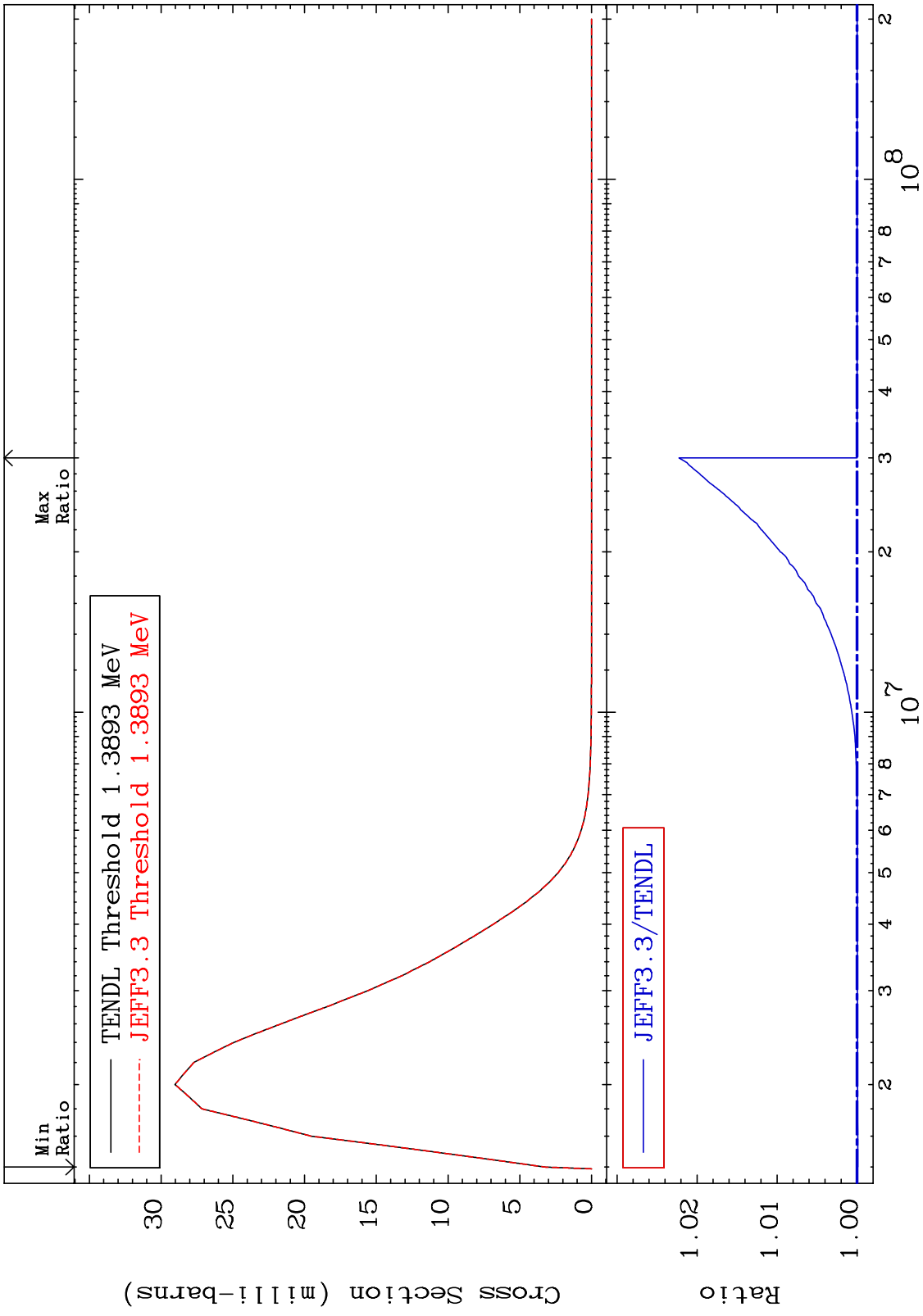
33-As-75
-0.016 To 0.012 %



MAT 3325 MT= 78 (n,n') Level Cross Section 33-As-75
 -0.009 To 2.224 %



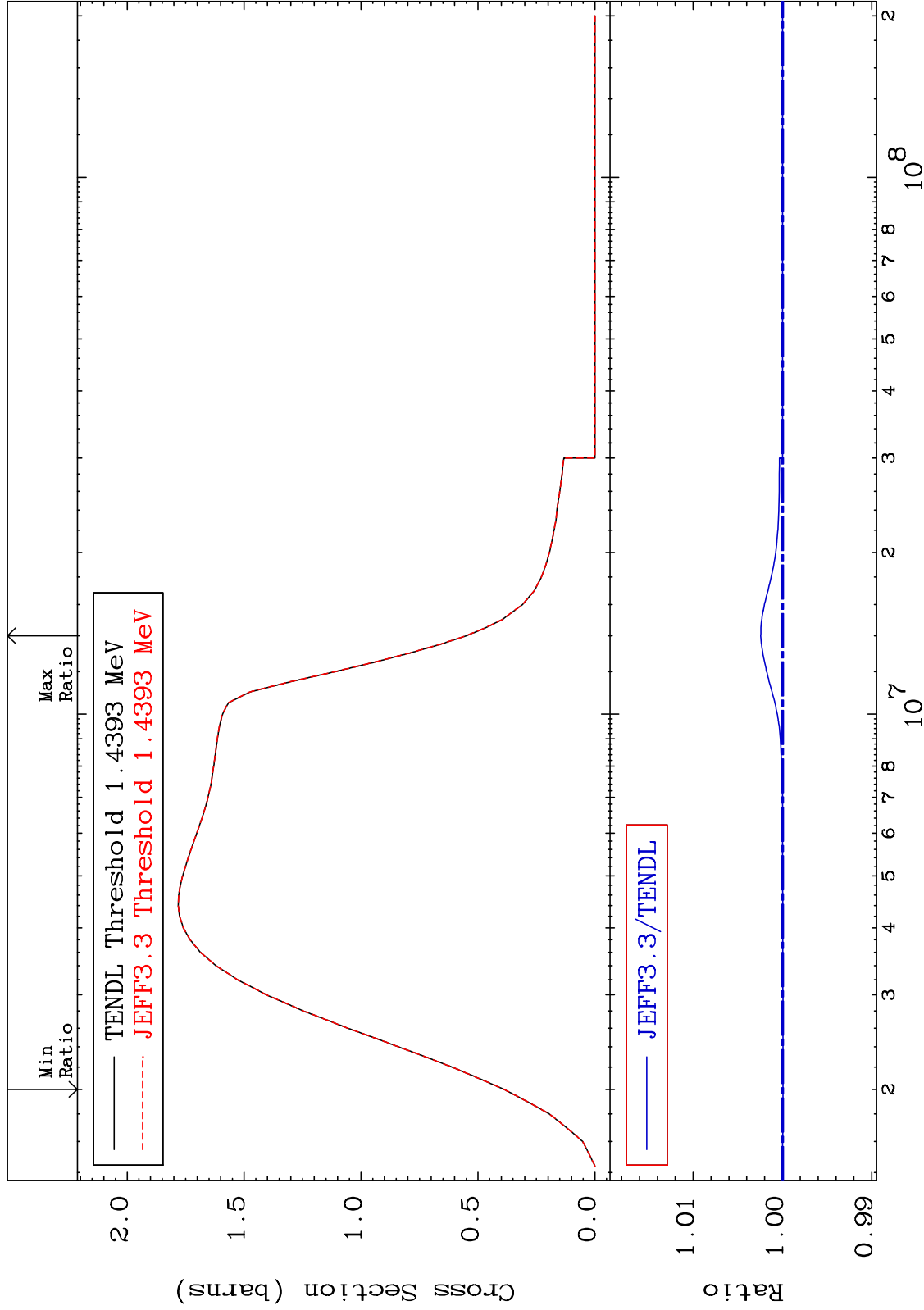
MAT 3325 MT= 79 (n,n') Level Cross Section 33-As-75
 -0.010 To 2.225 %



MAT 3325

(n, n') Continuum
Cross Section

33-As-75
-0.006 To 0.243 %



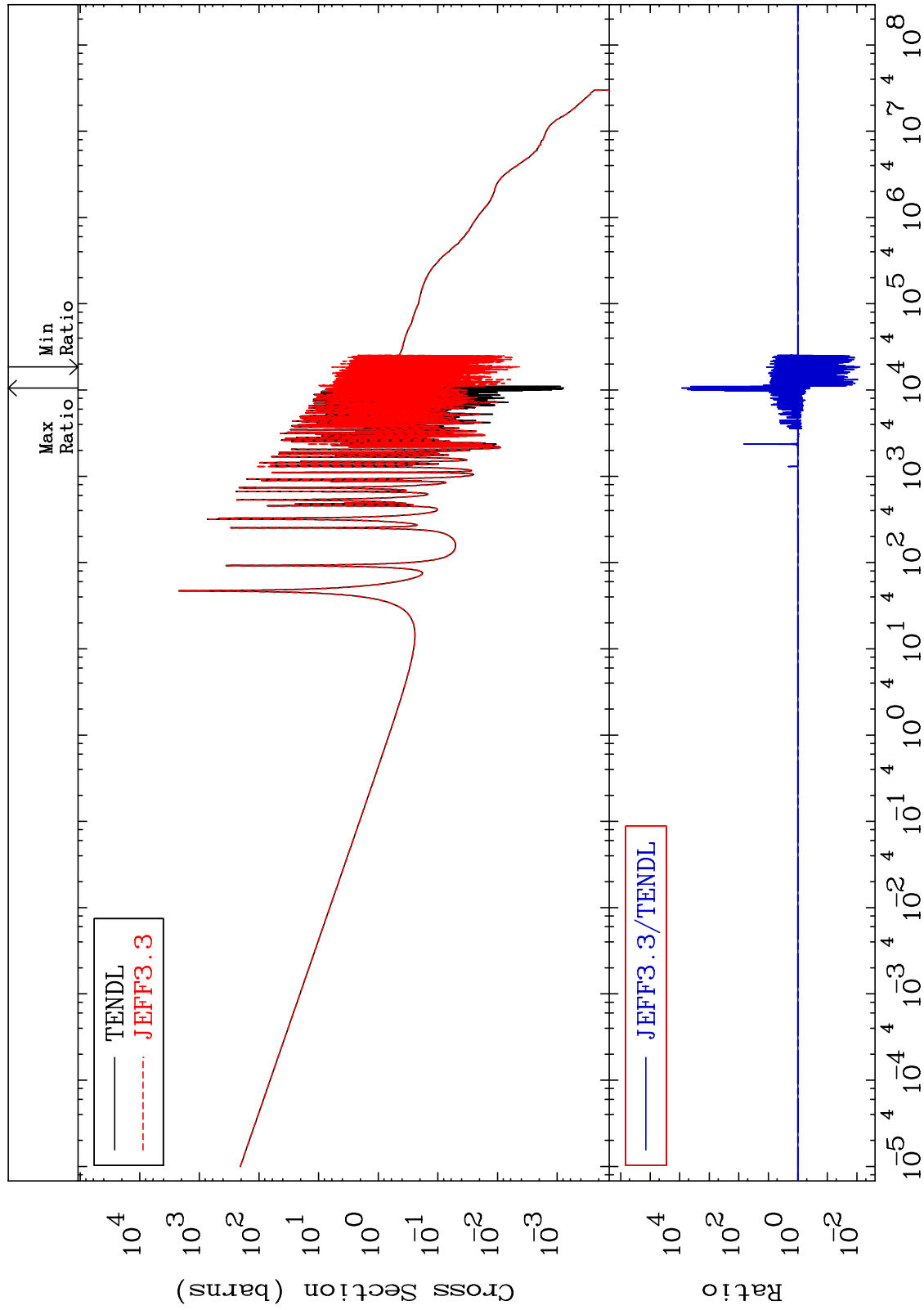
MAT 3325

(n, γ)

33-As-75

Cross Section

-99.20 To 9999. %



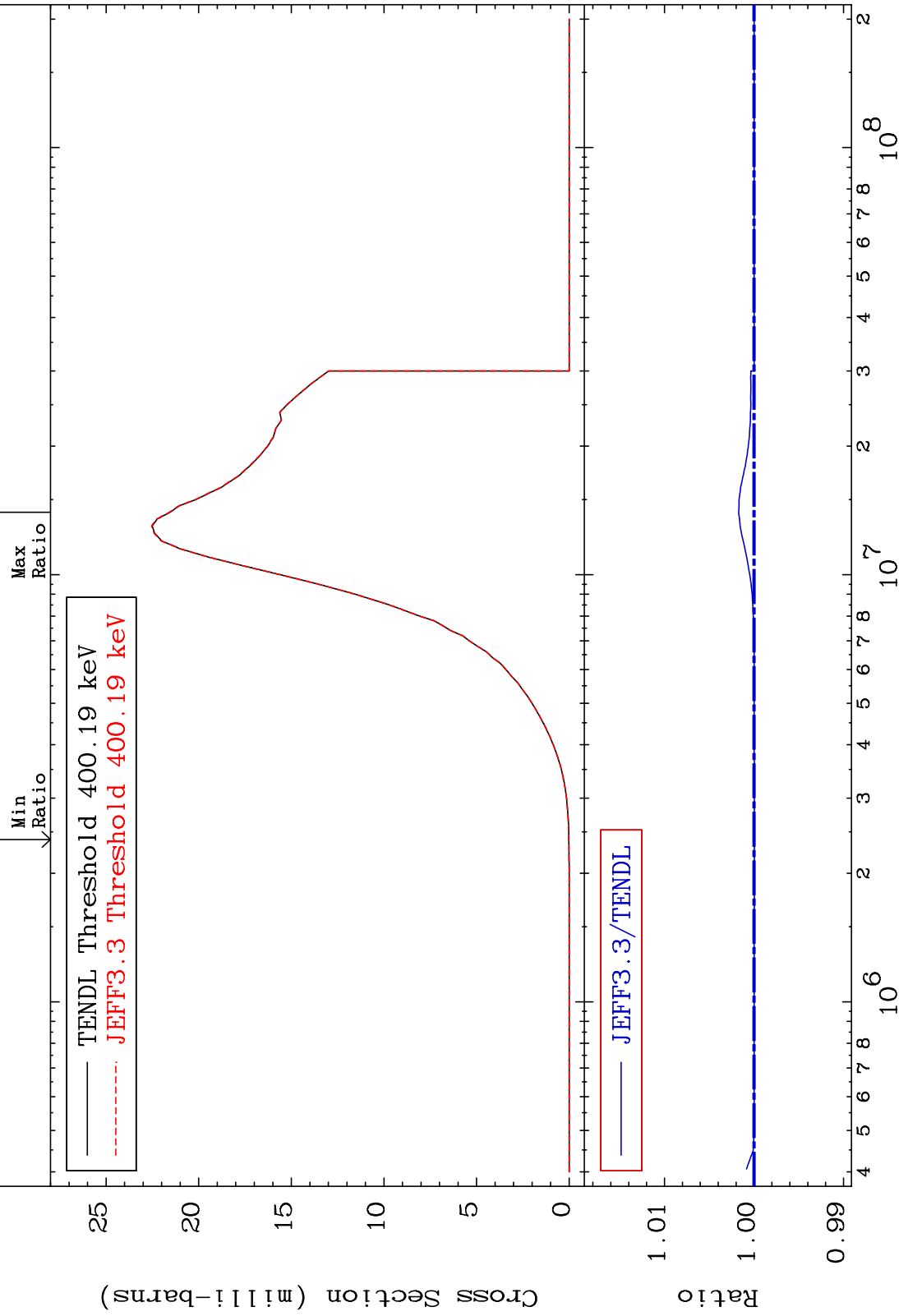
MAT 3325

(n,p)

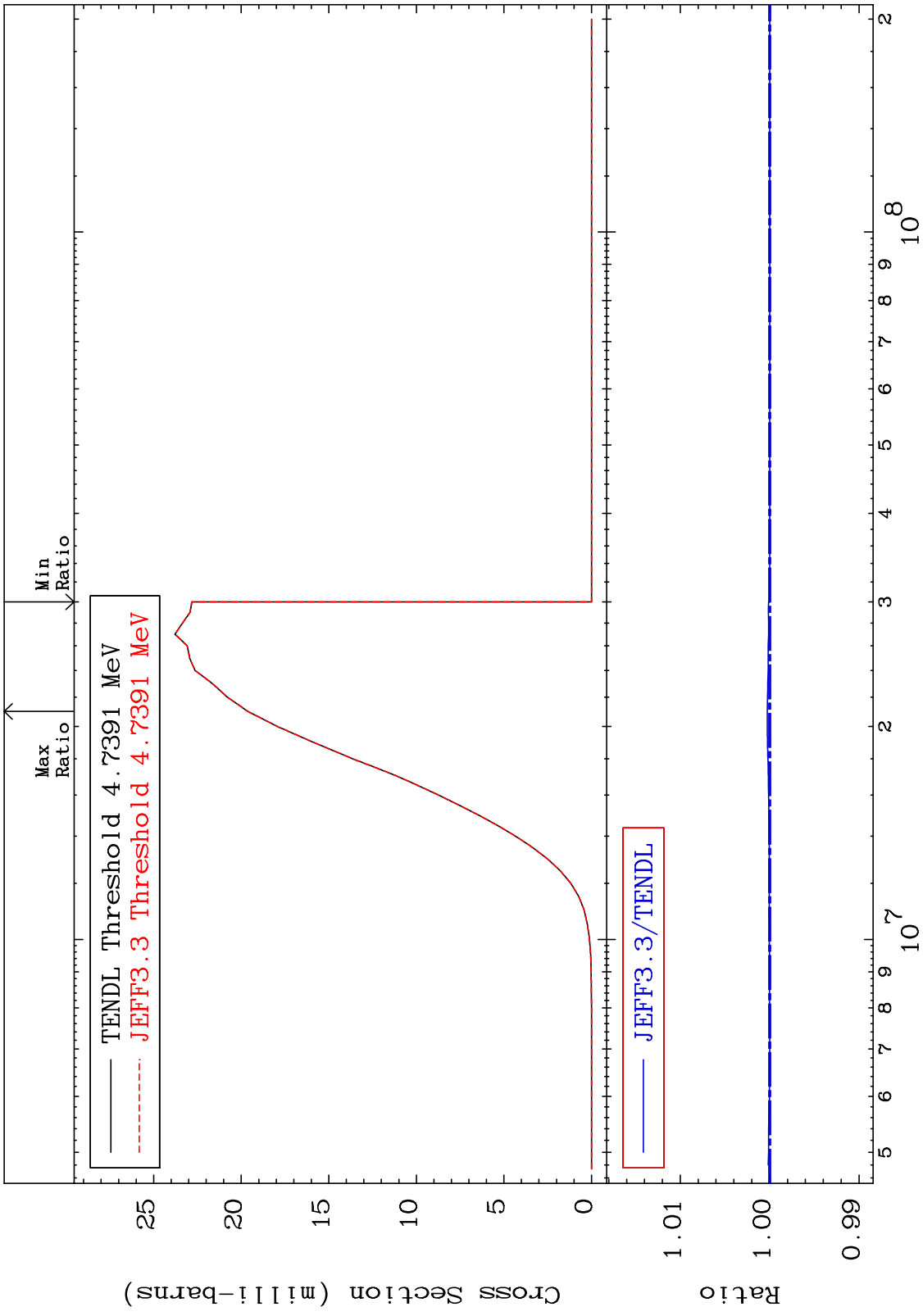
33-As-75

-0.004 To 0.172 %

Cross Section

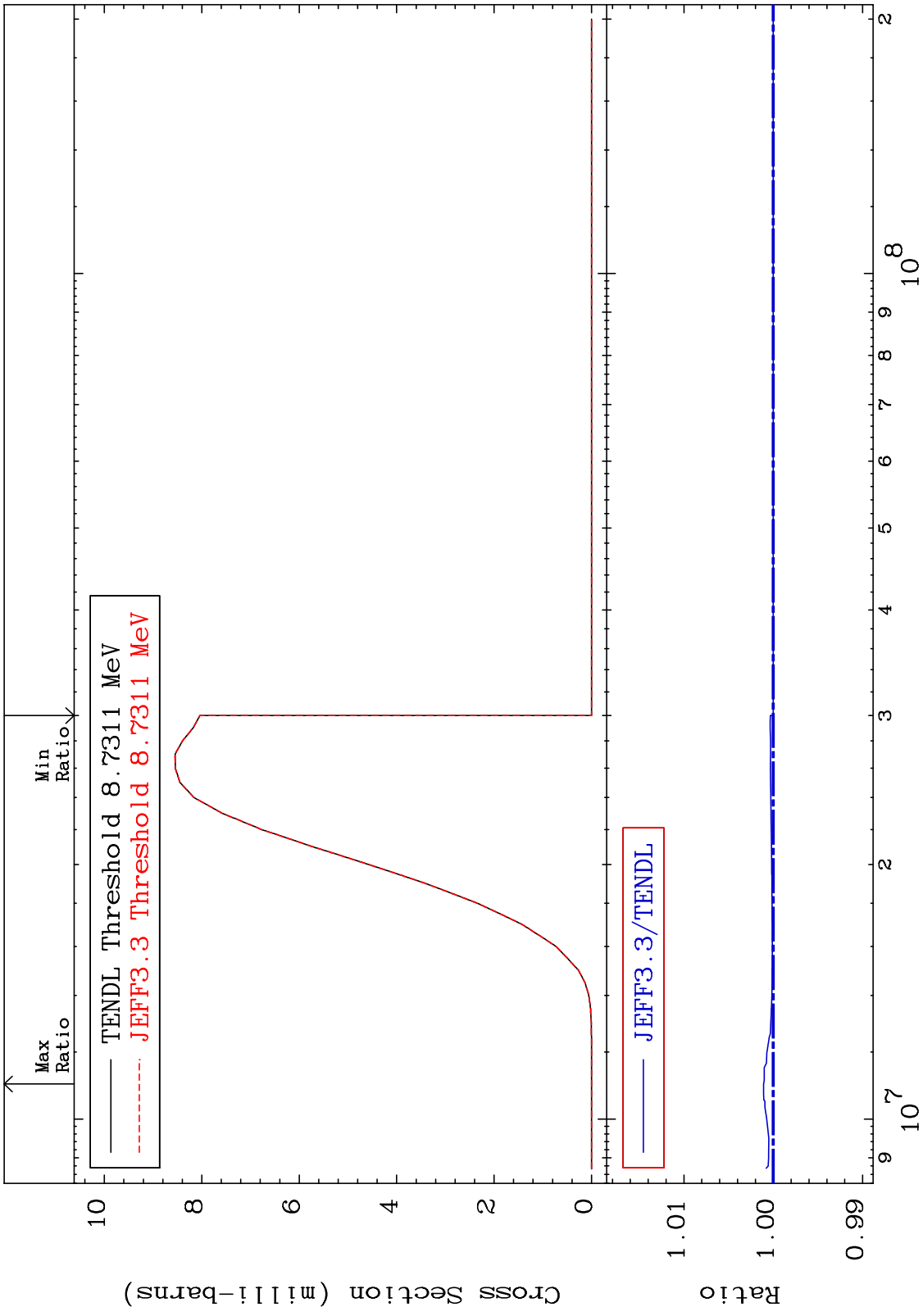


MAT 3325 (n,d) Cross Section 33-As-75 To 0.027 %

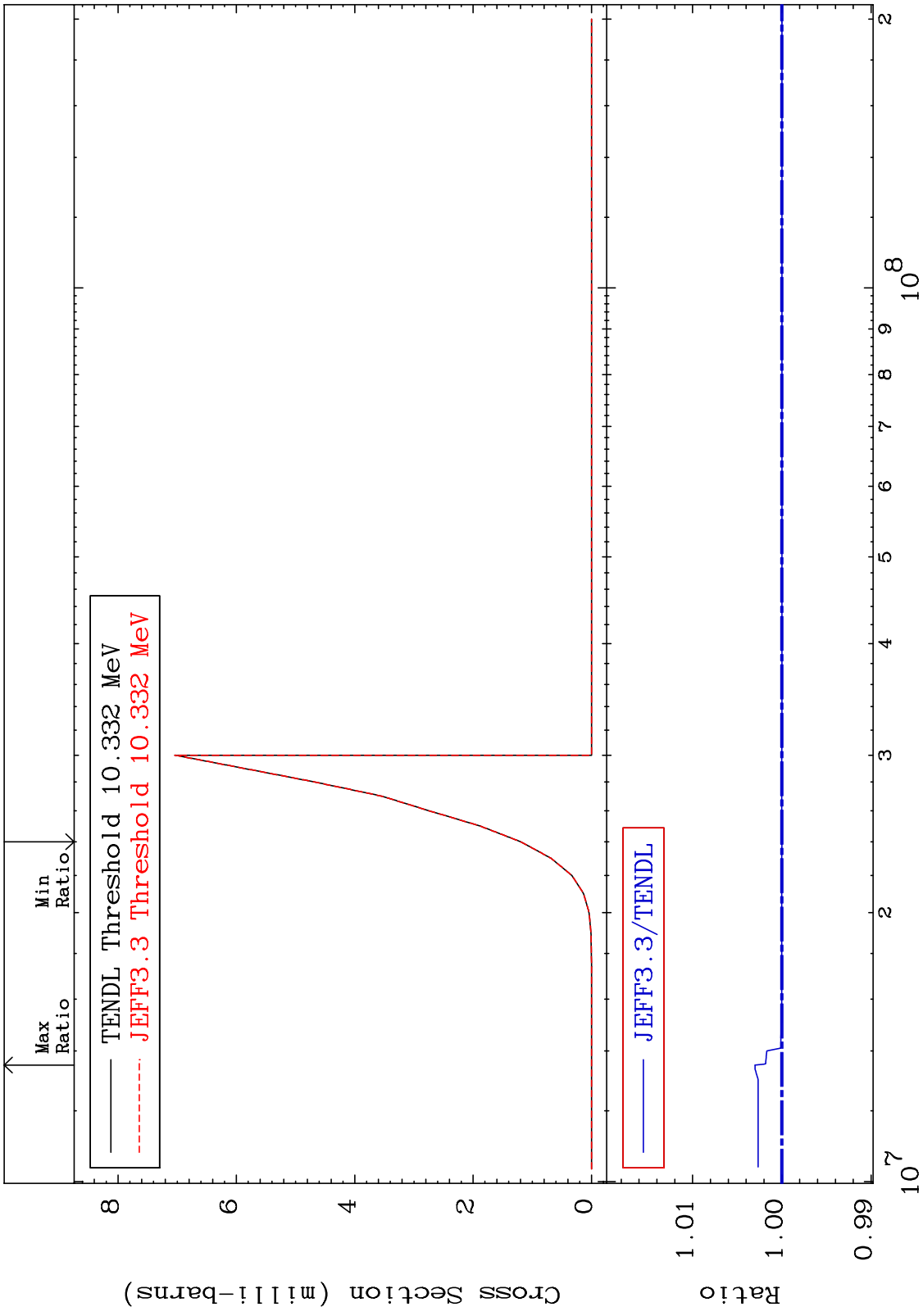


53 33-As-75

MAT 3325 (n,t) Cross Section 33-As-75 To 0.108 %



MAT 3325 (n, He-3) Cross Section 33-As-75
 0.000 To 0.300 %



MAT 3325

(n, α)

33-As-75

-27.81 To 9999. %

Cross Section

Max Ratio

Min Ratio

TENDL Threshold 11.071 keV
JEFF3.3 Threshold 25.200 keV

Cross Section (milli-barns)

16

12

8

4

0

10^2

10^1

10^0

JEFF3.3/TENDL

10^4

10^5

10^6

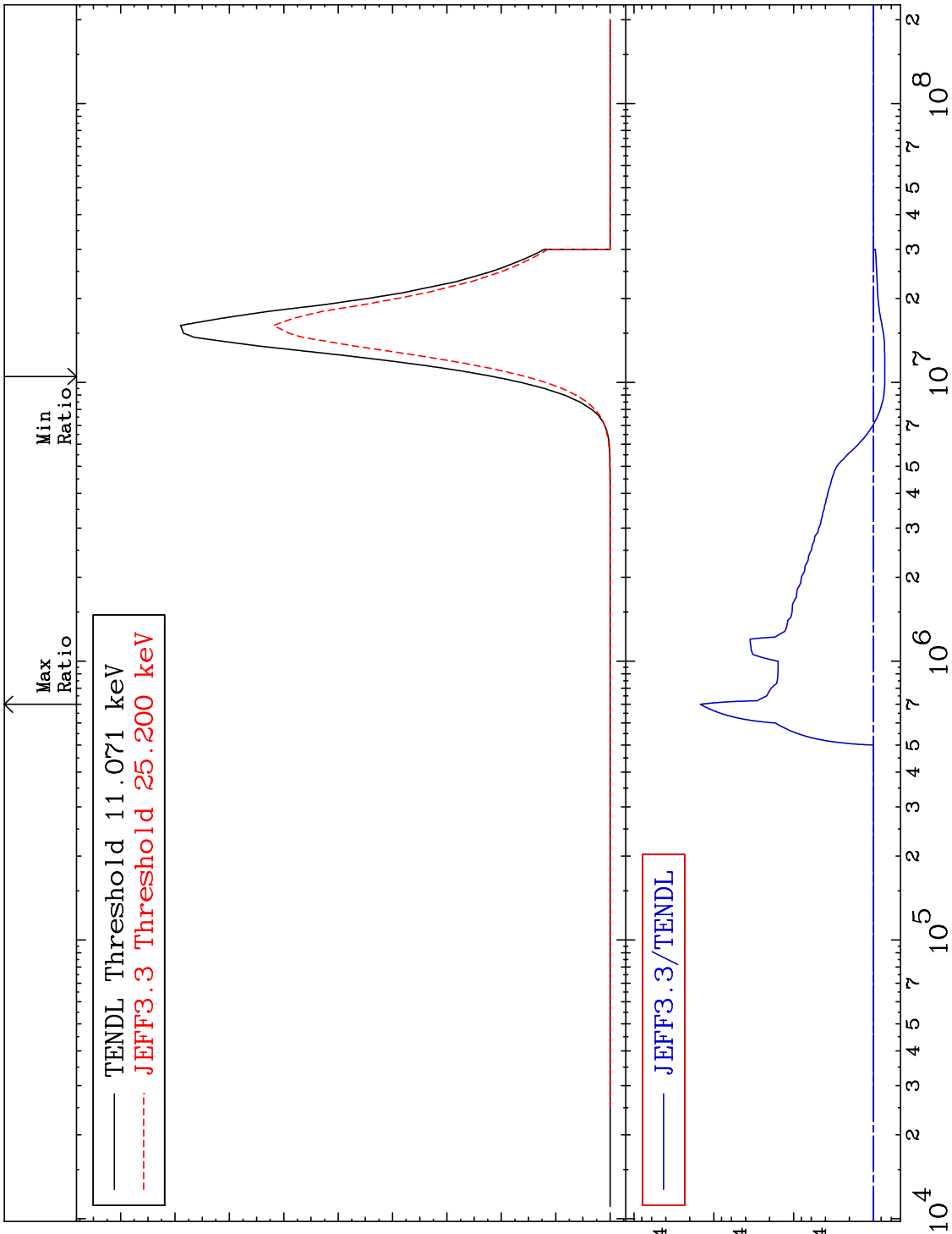
10^7

10^8

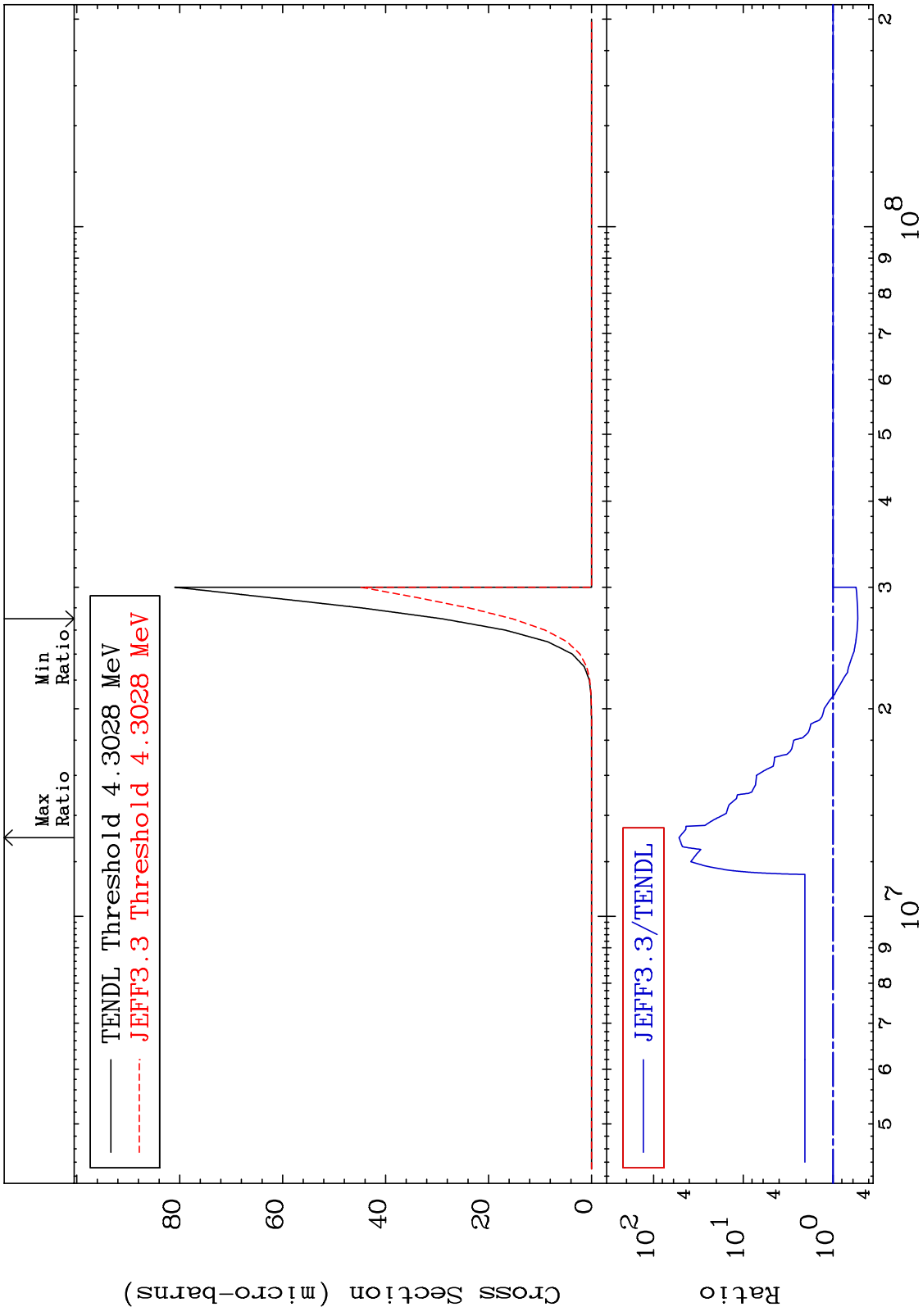
56

Incident Energy (eV)

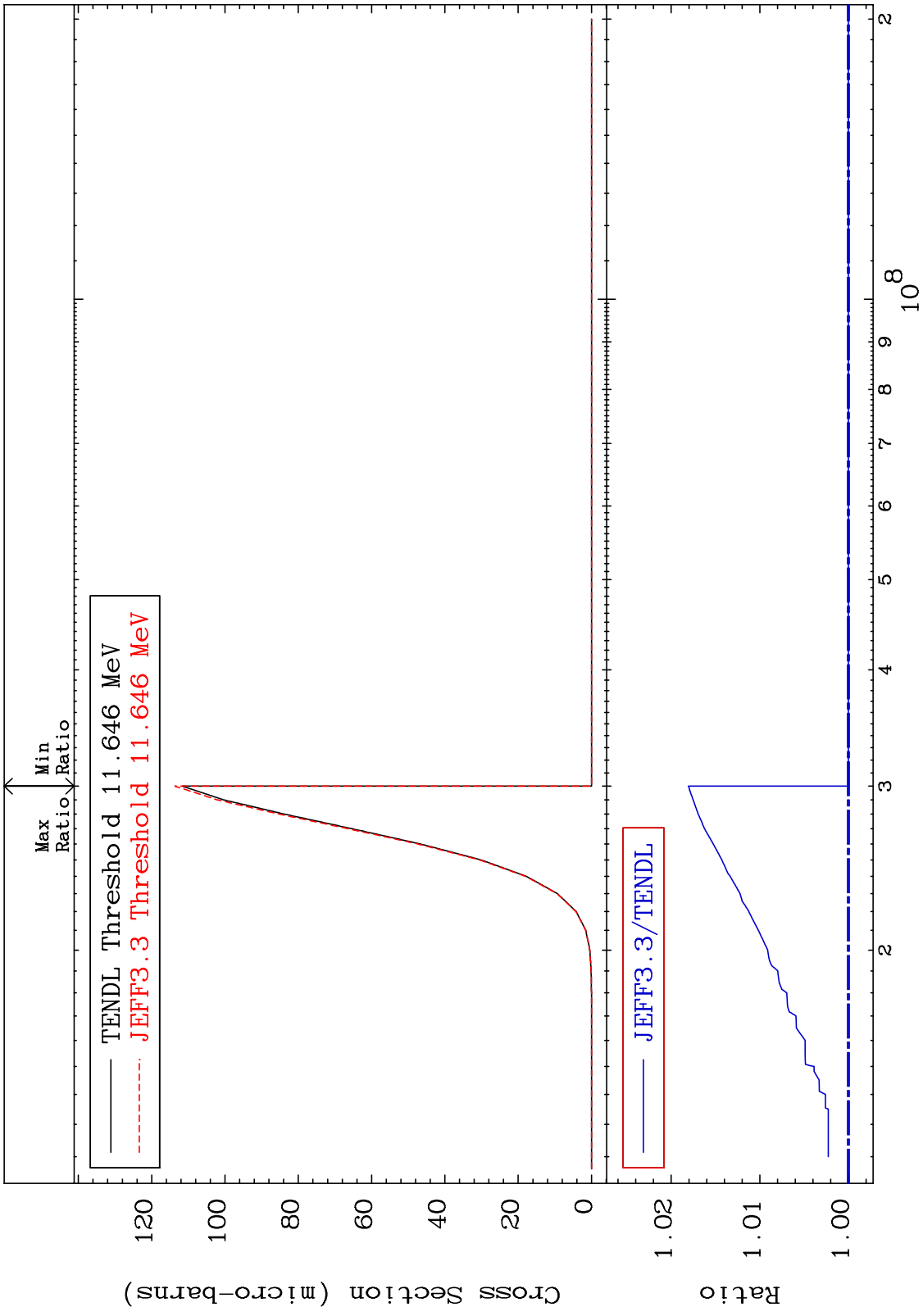
33-As-75

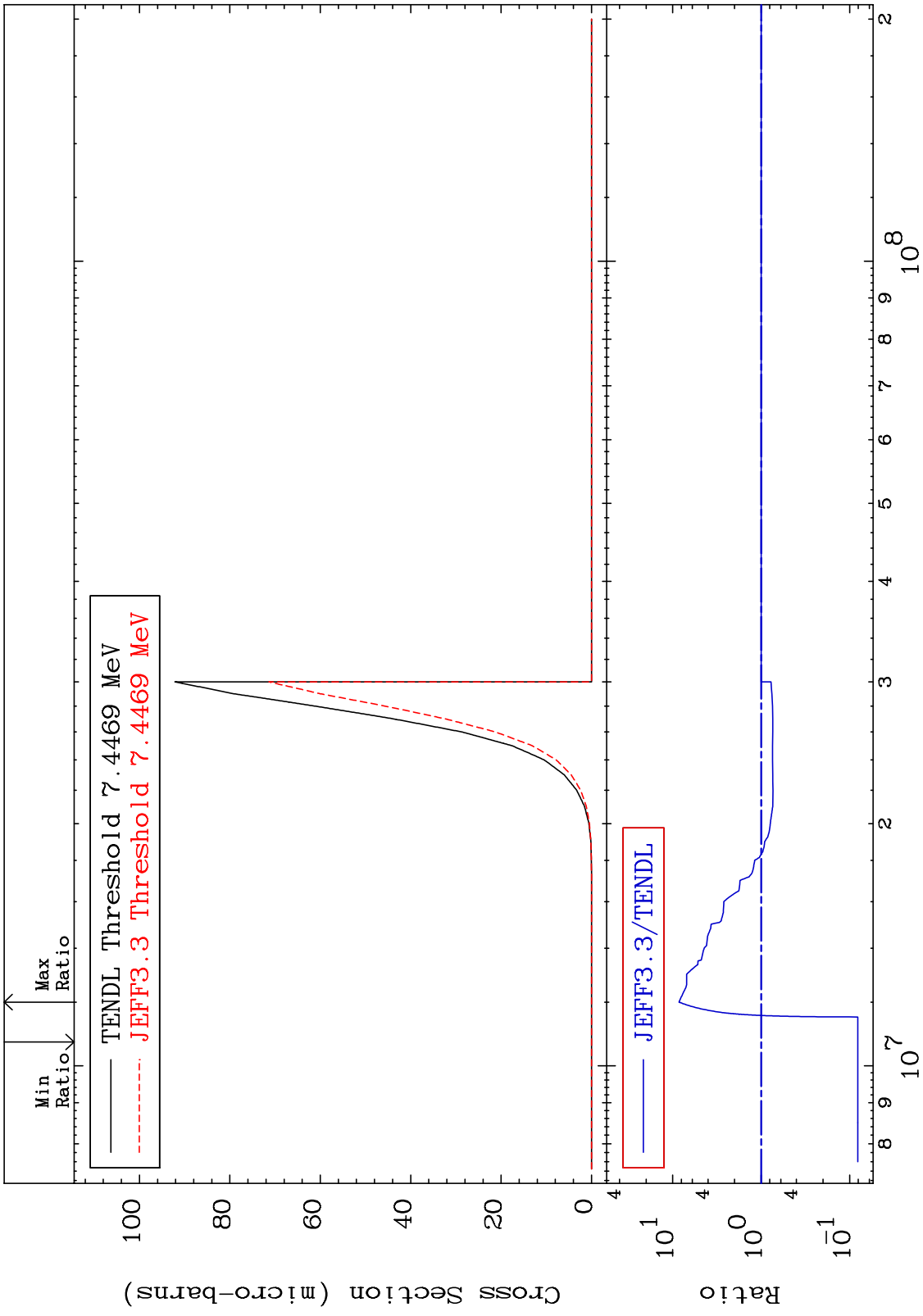


MAT 3325 (n,2α) Cross Section 33-As-75 -47.01 To 5101. %

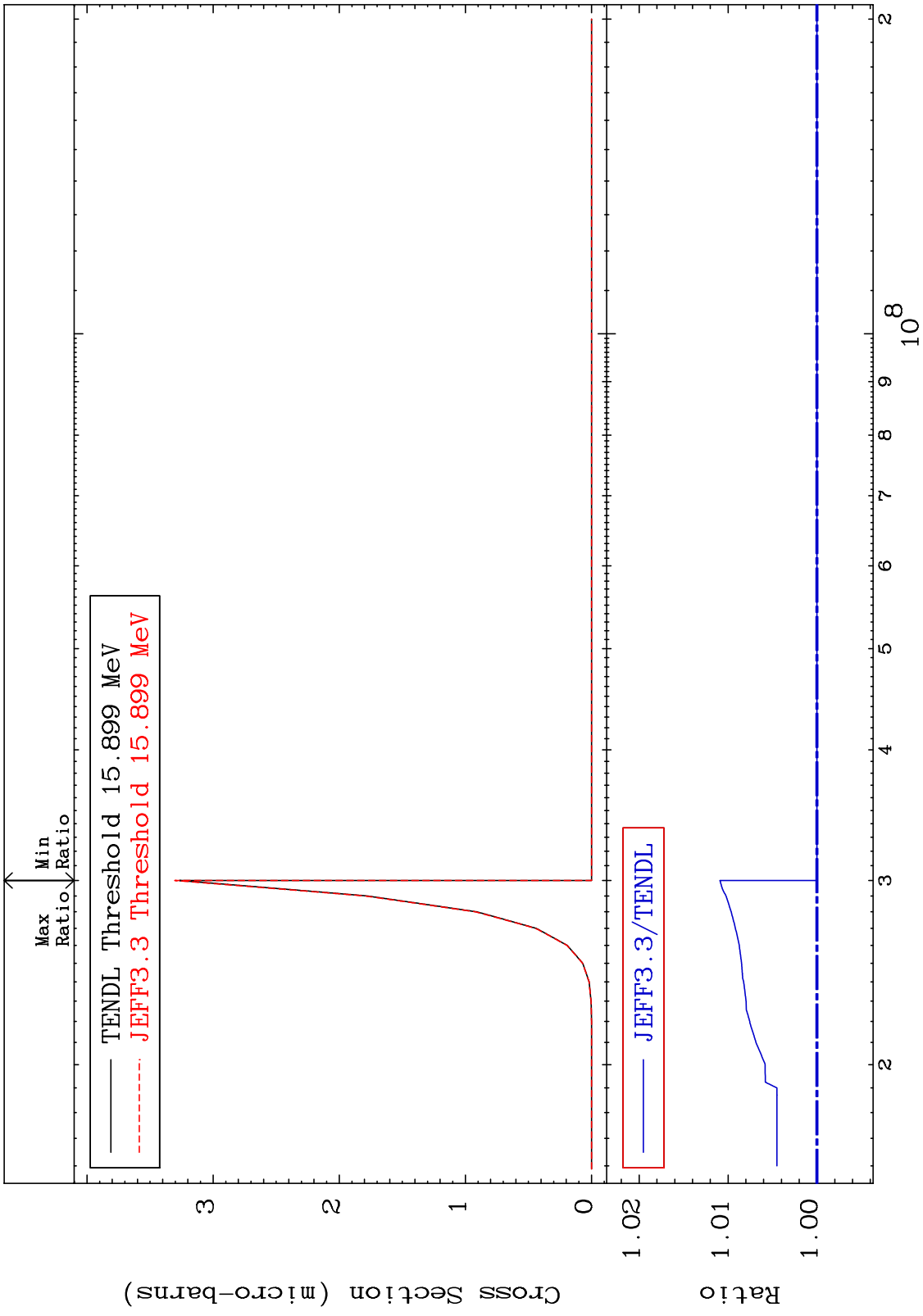


MAT 3325 (n,2p) Cross Section 33-As-75 To 1.805 %

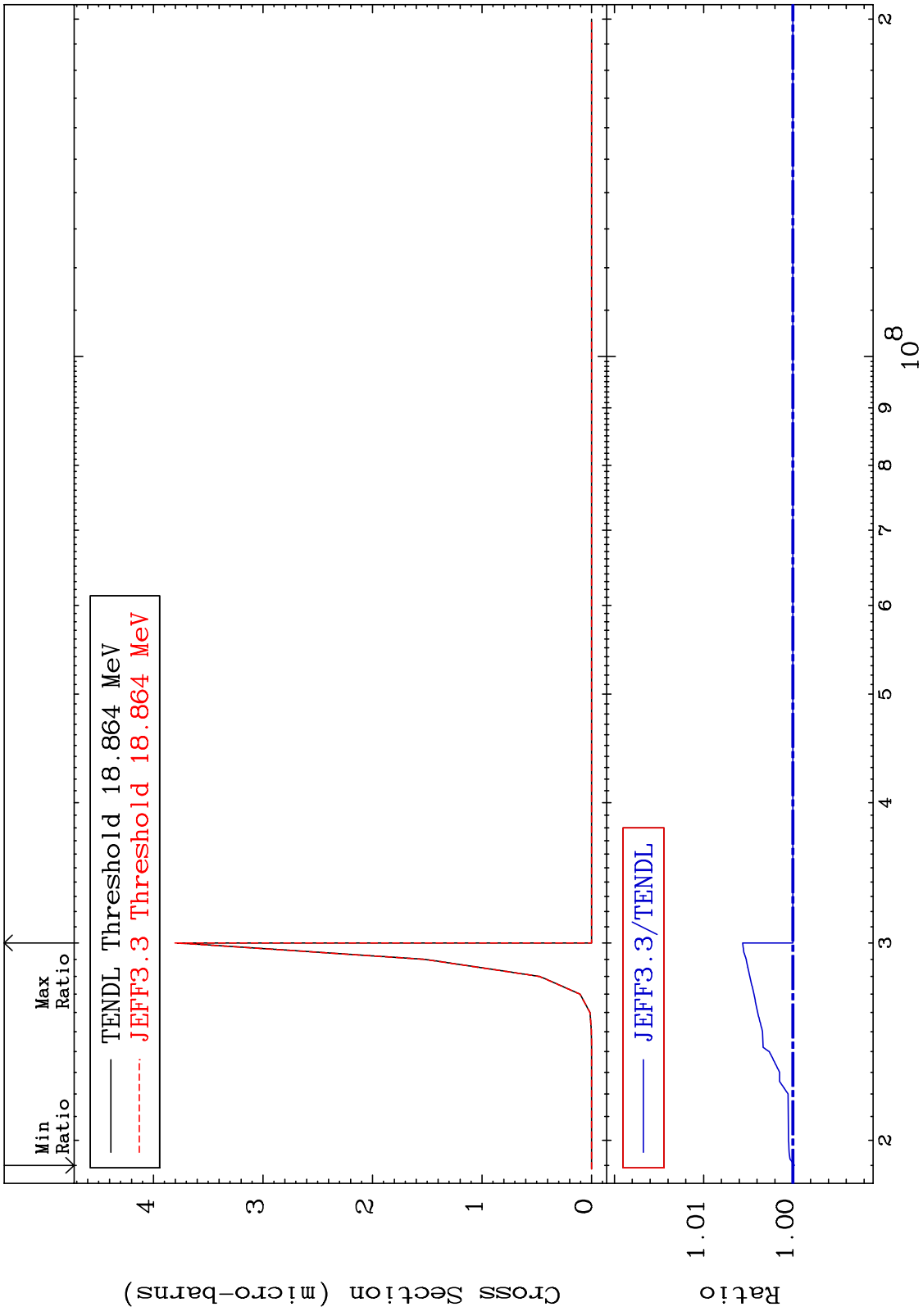




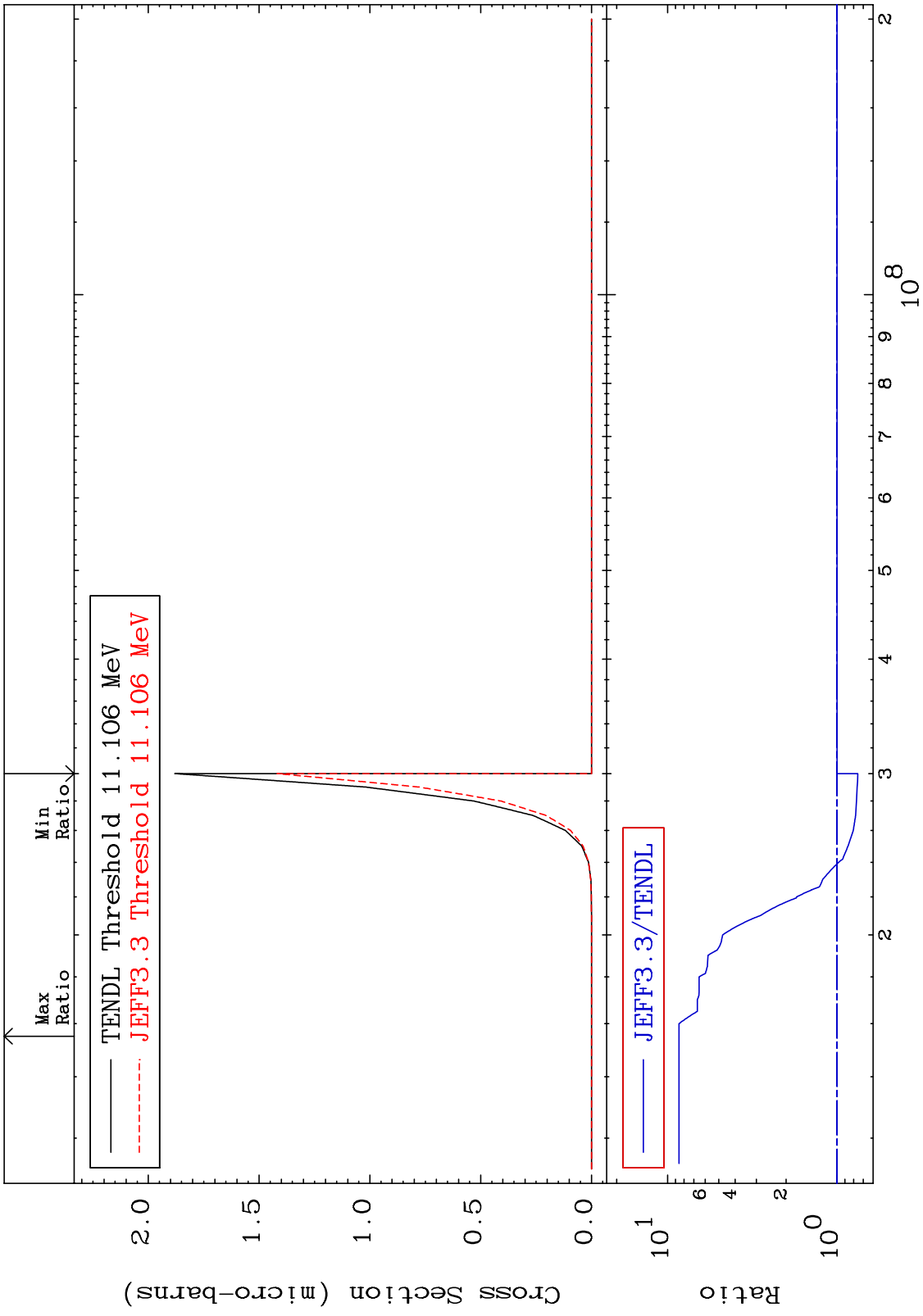
MAT 3325 (n,p) d 33-As-75
 Cross Section 0.000 To 1.092 %



MAT 3325 (n,p) t 33-As-75
 Cross Section -0.017 To 0.563 %



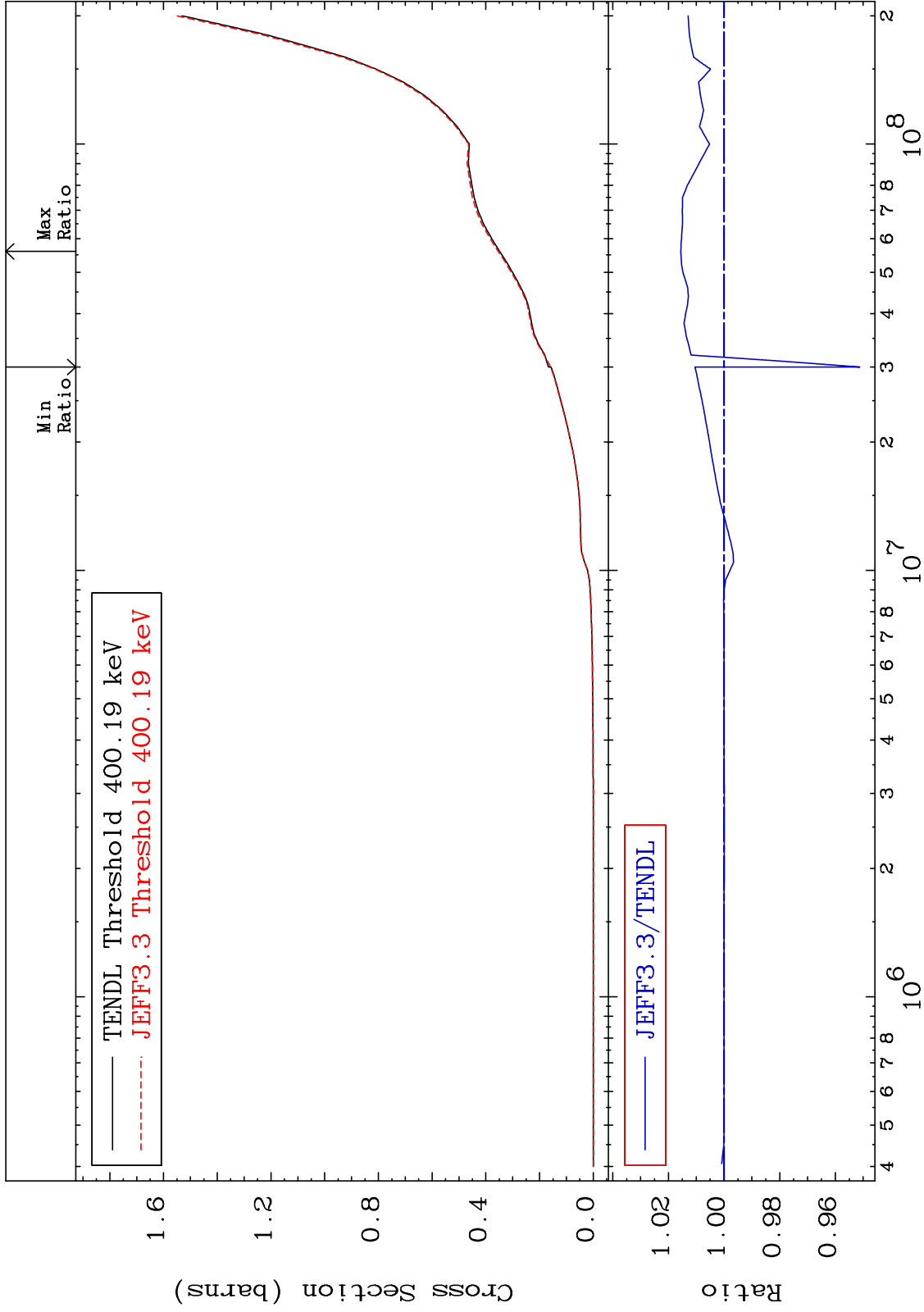
MAT 3325 (n,d) α 33-As-75
 Cross Section -24.54 To 756.7 %



MAT 3325

Hydrogen Production
Cross Section

33-As-75
-4.873 To 1.554 %



63

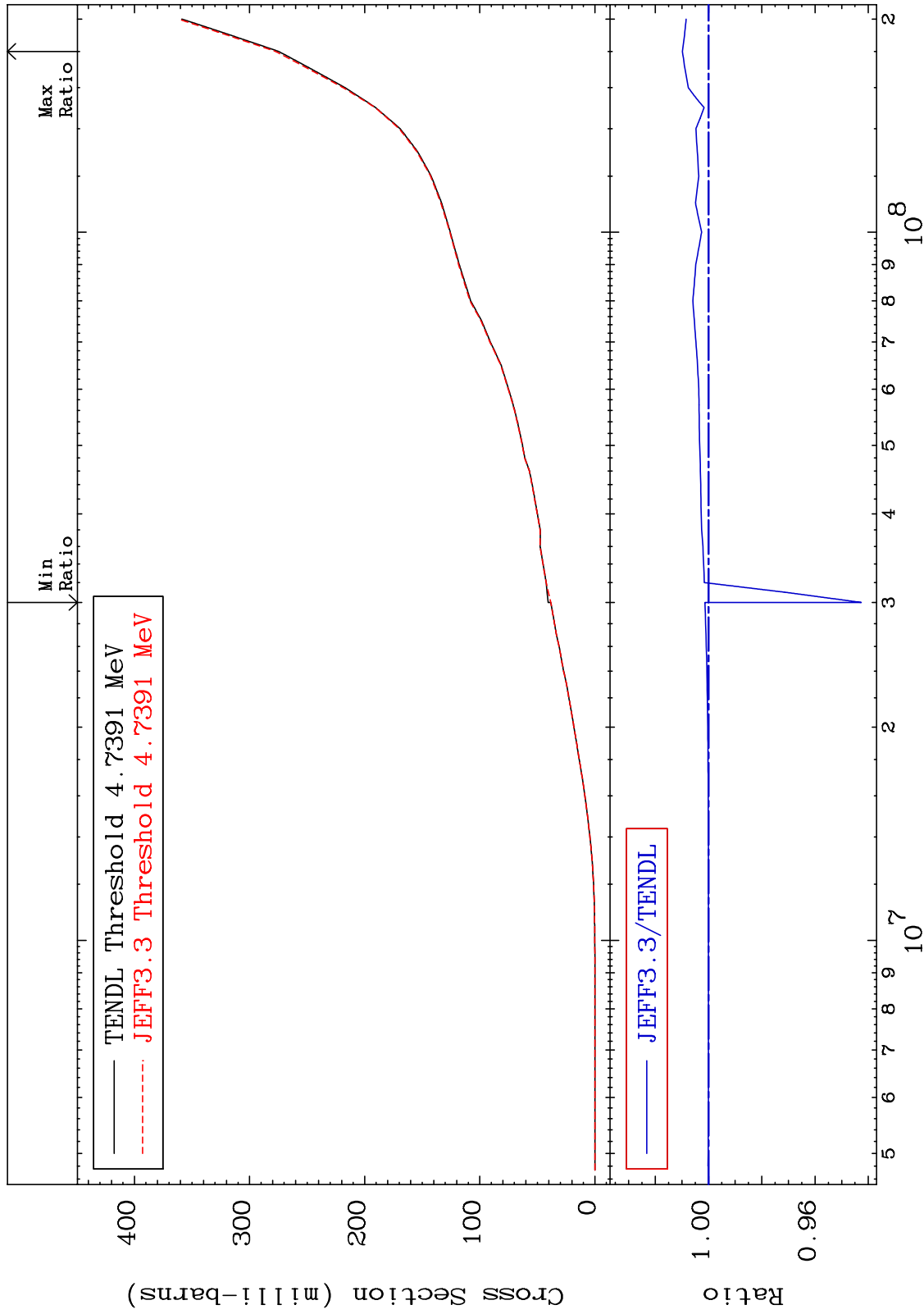
Incident Energy (eV)

33-As-75

MAT 3325

Deuterium Production
Cross Section

33-As-75
-5.736 To 0.979 %



64

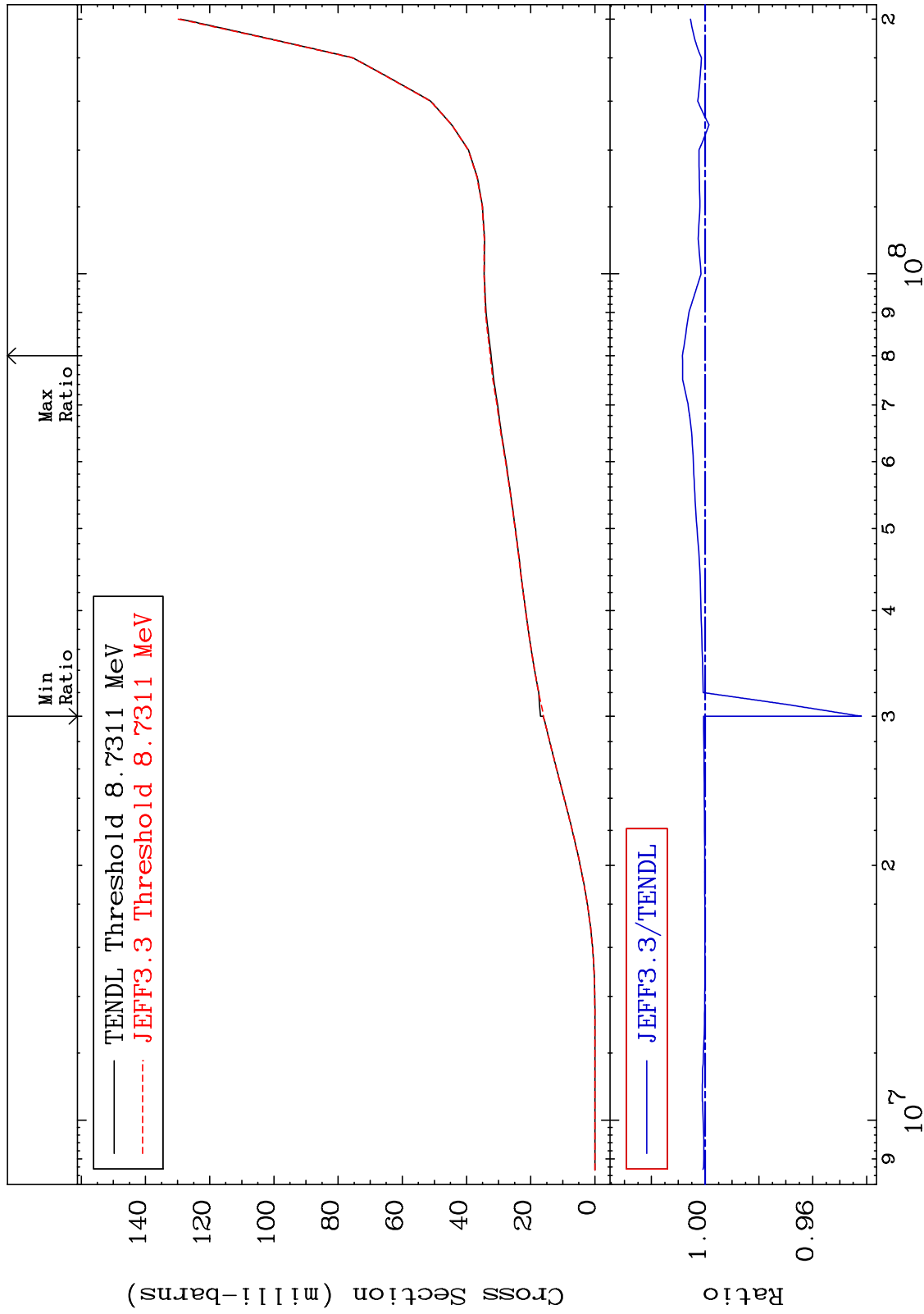
Incident Energy (eV)

33-As-75

MAT 3325

Tritium Production
Cross Section

33-As-75
-5.802 To 0.845 %



65

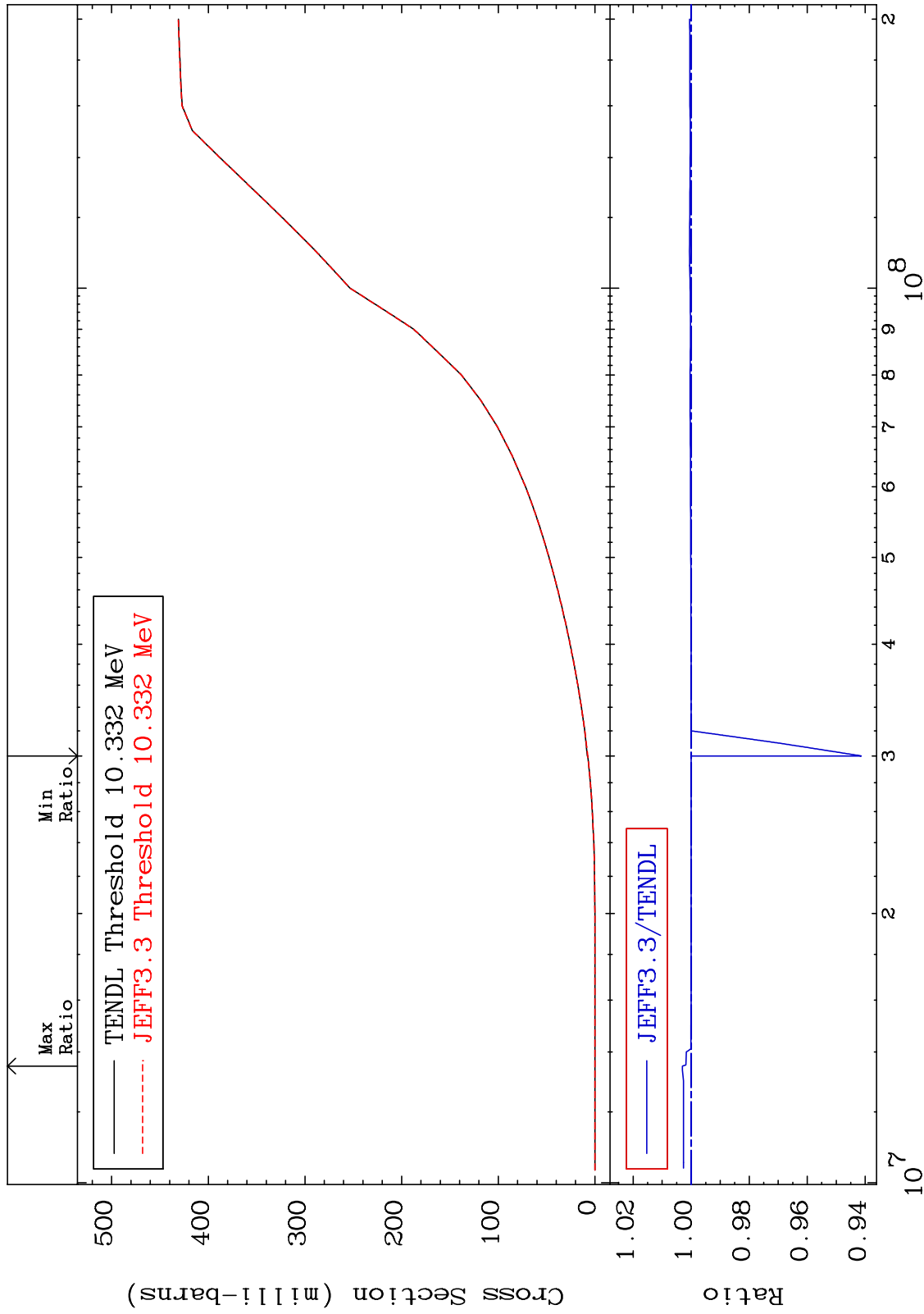
Incident Energy (eV)

33-As-75

MAT 3325

He-3 Production
Cross Section

33-As-75
-5.863 To 0.300 %



66

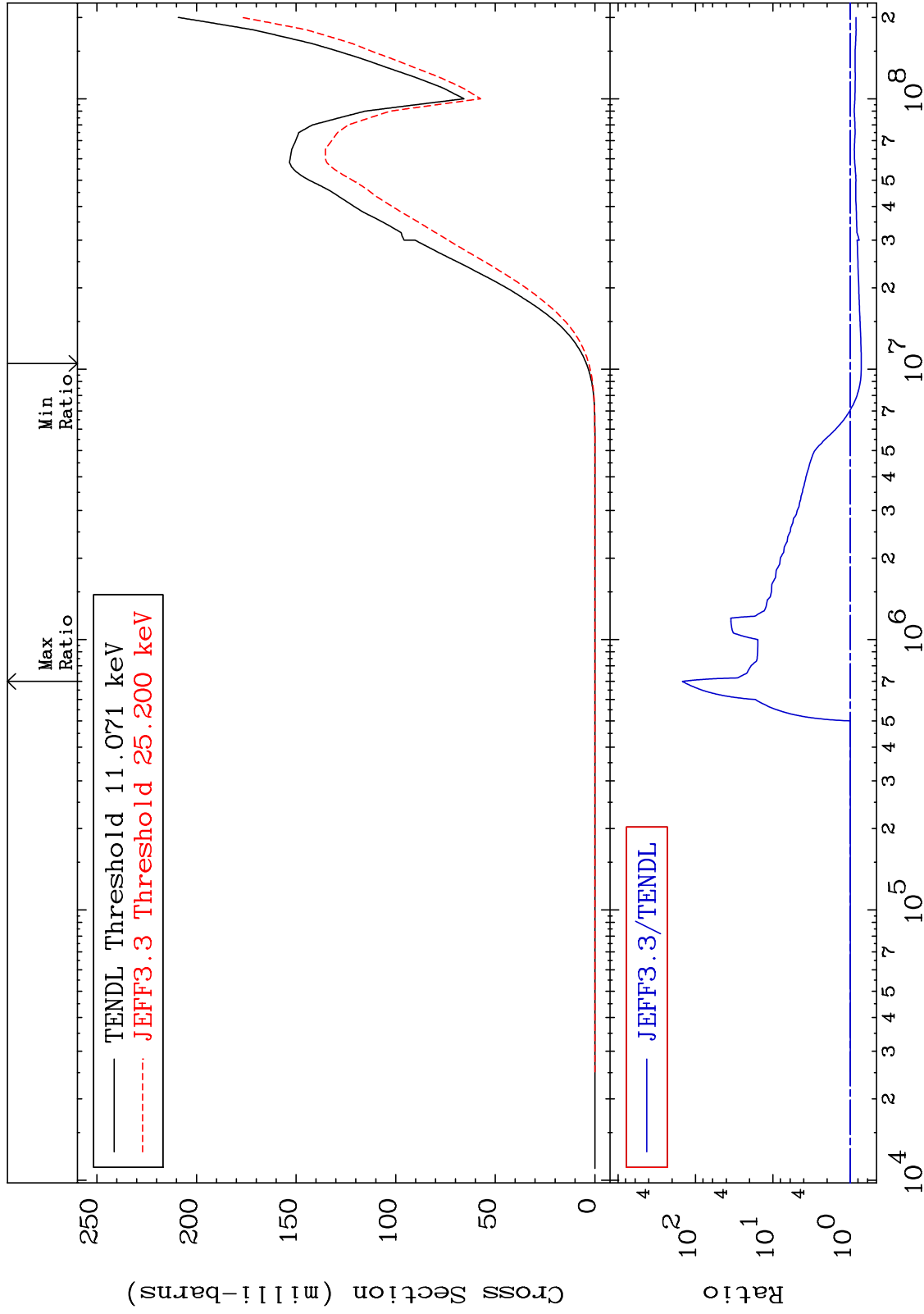
Incident Energy (eV)

33-As-75

MAT 3325

He-4 Production
Cross Section

33-As-75
-27.69 To 9999. %

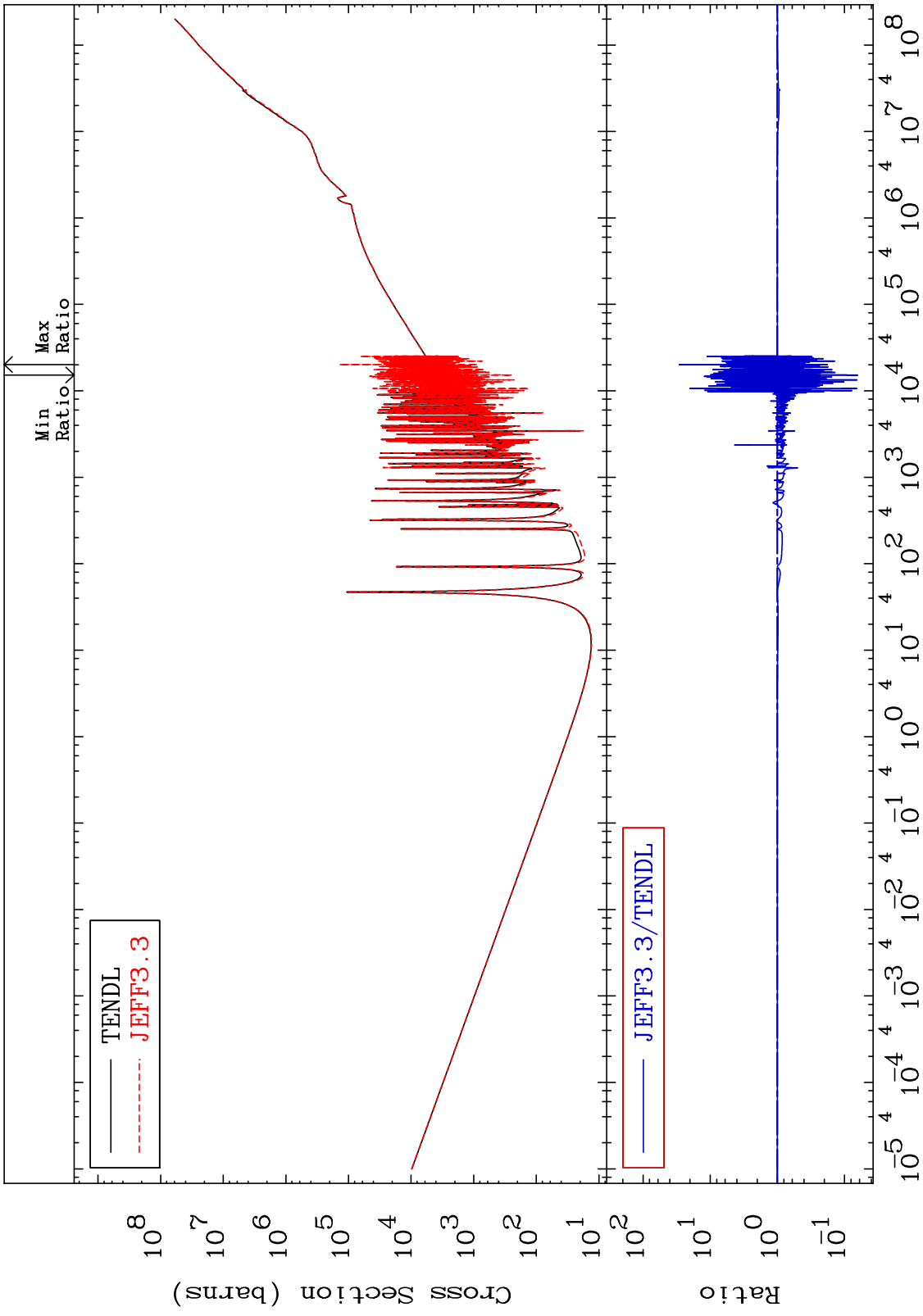


67

Incident Energy (eV)

33-As-75

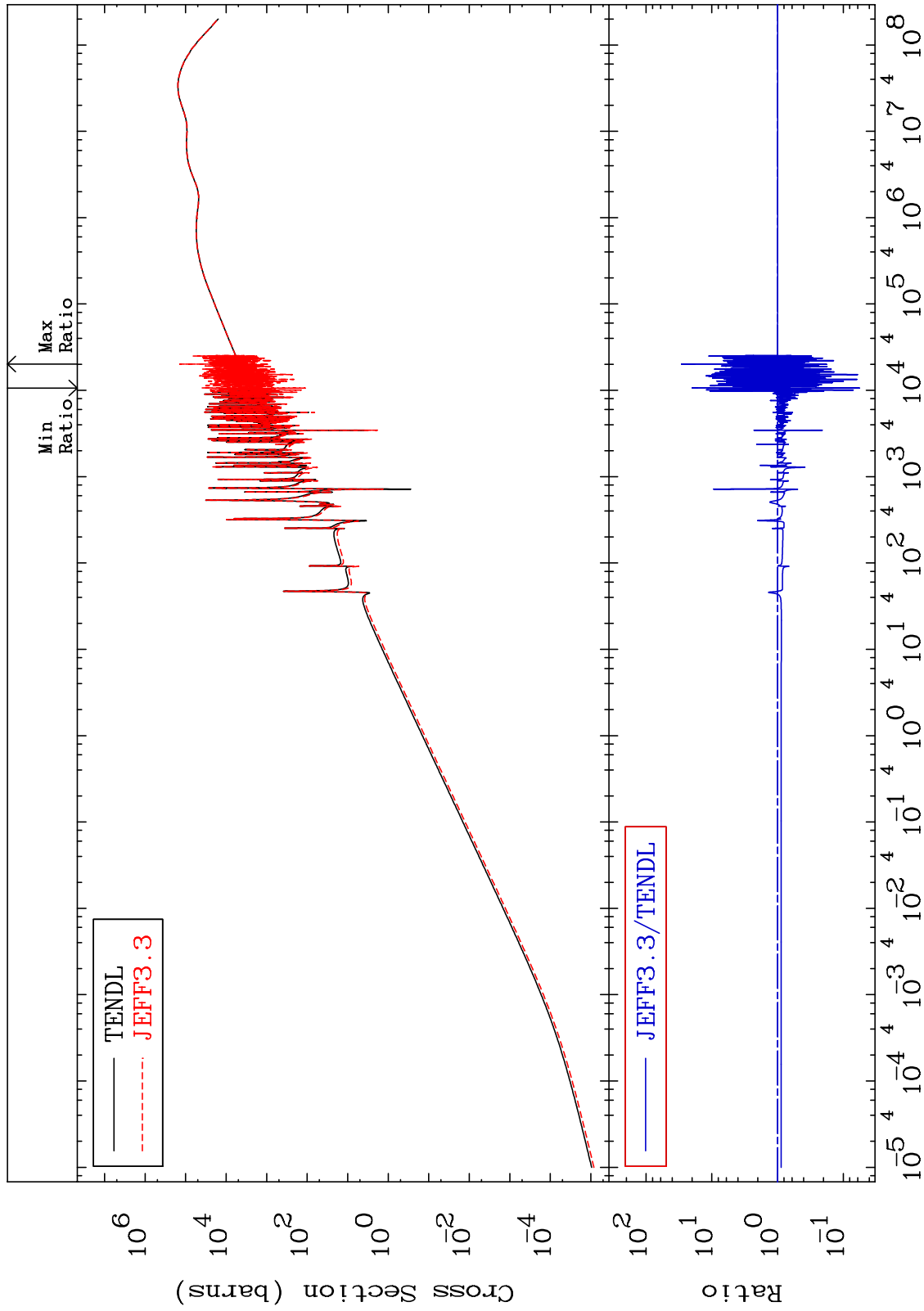
MAT 3325 Kerma total (eV-barns) 33-As-75
 Cross Section -93.66 To 2811. %



MAT 3325

Kerma elastic
Cross Section

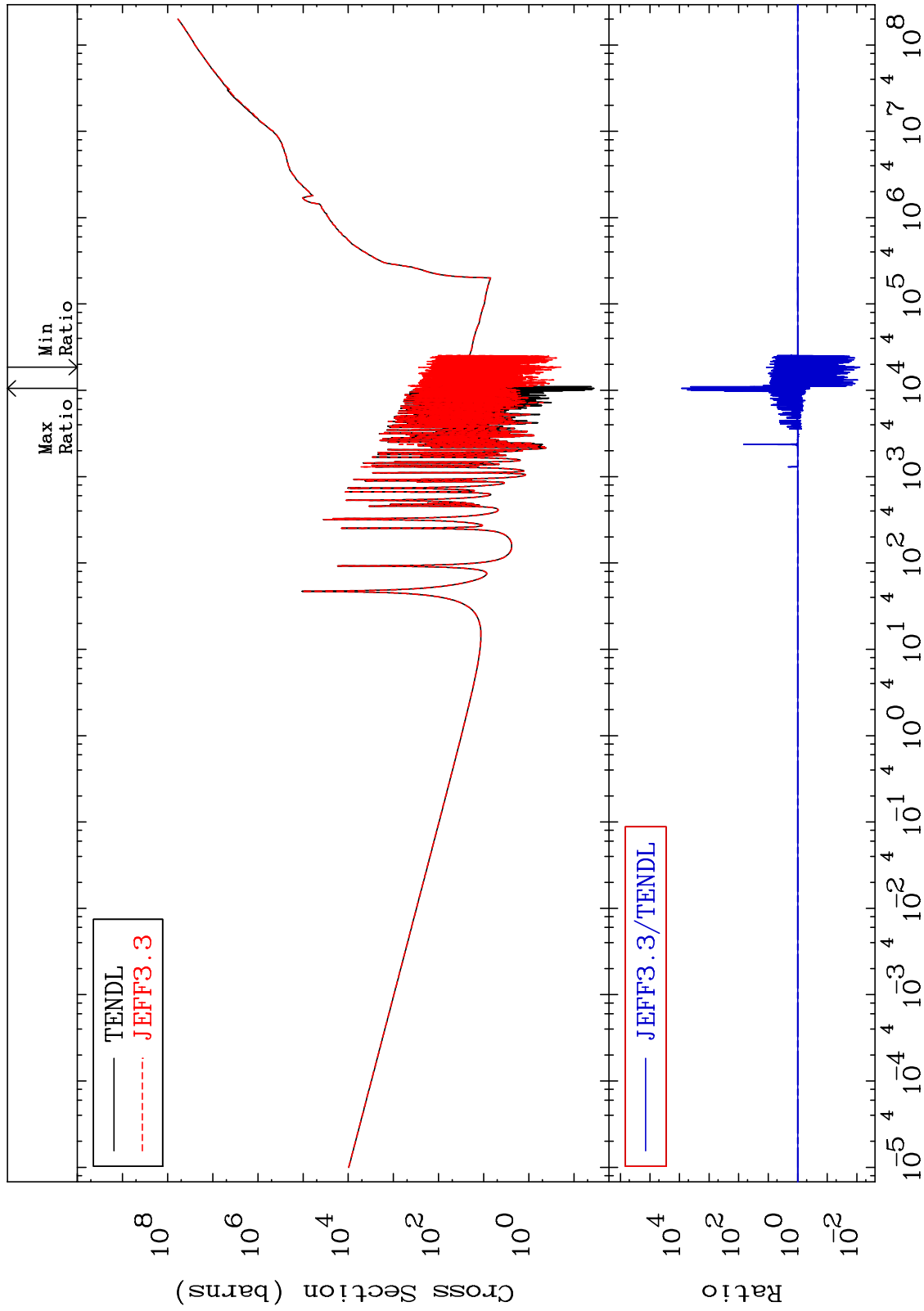
33-As-75
-94.39 To 2821. %



MAT 3325

Kerma non-elastic (all but mt2)
Cross Section

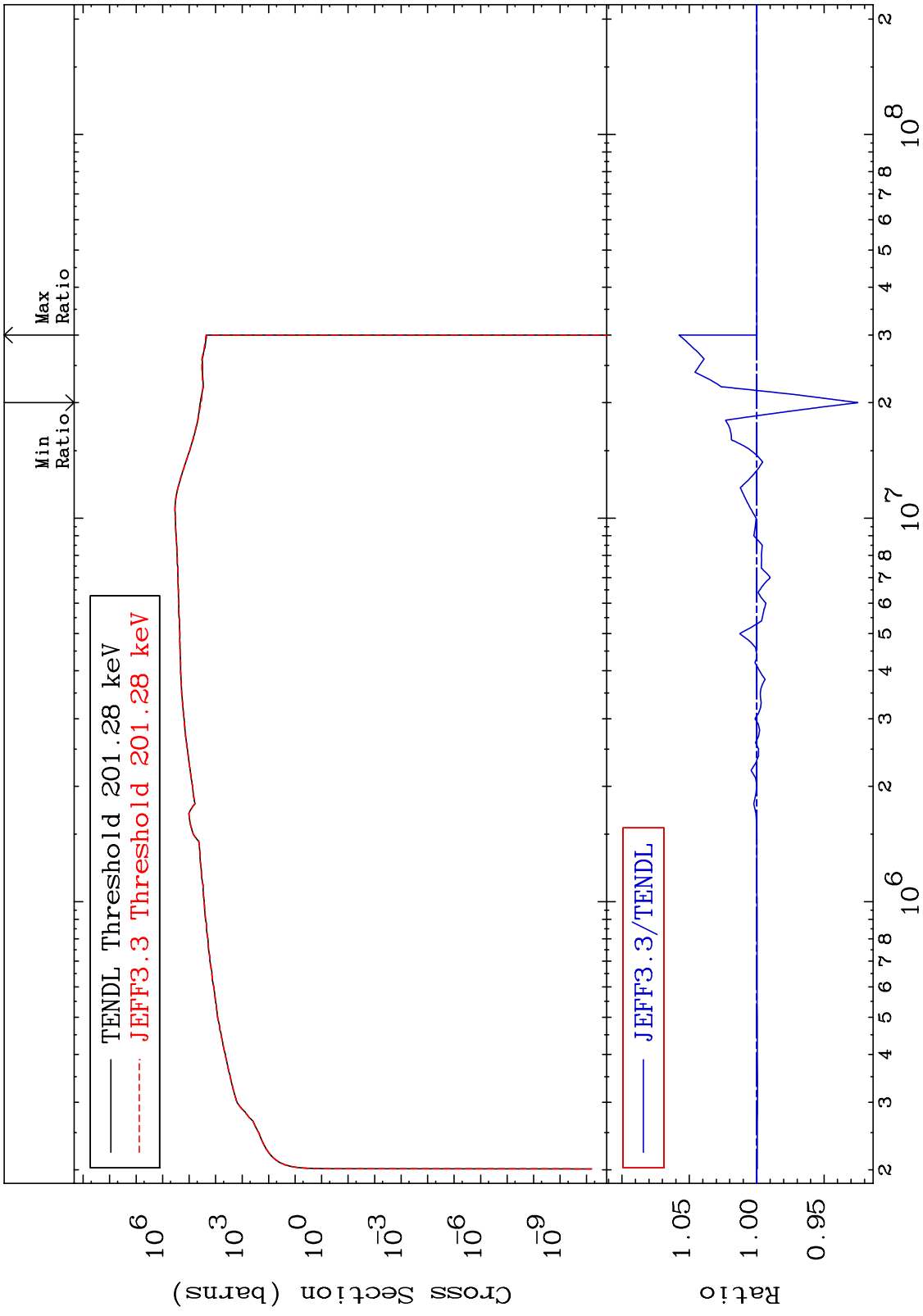
33-As-75
-99.20 To 9999. %



70

Incident Energy (eV)

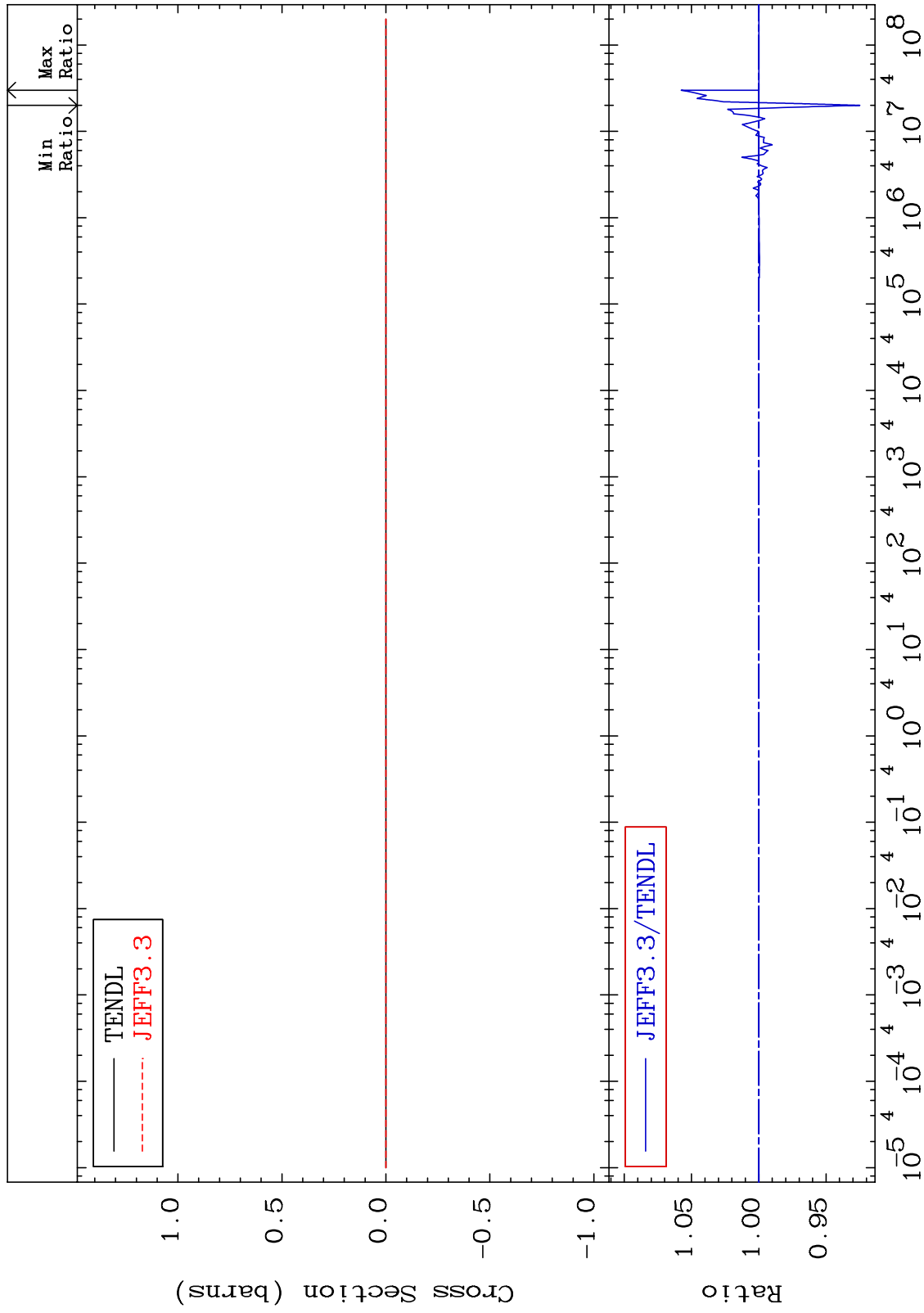
33-As-75



MAT 3325

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

33-As-75
-7.506 To 5.765 %



72

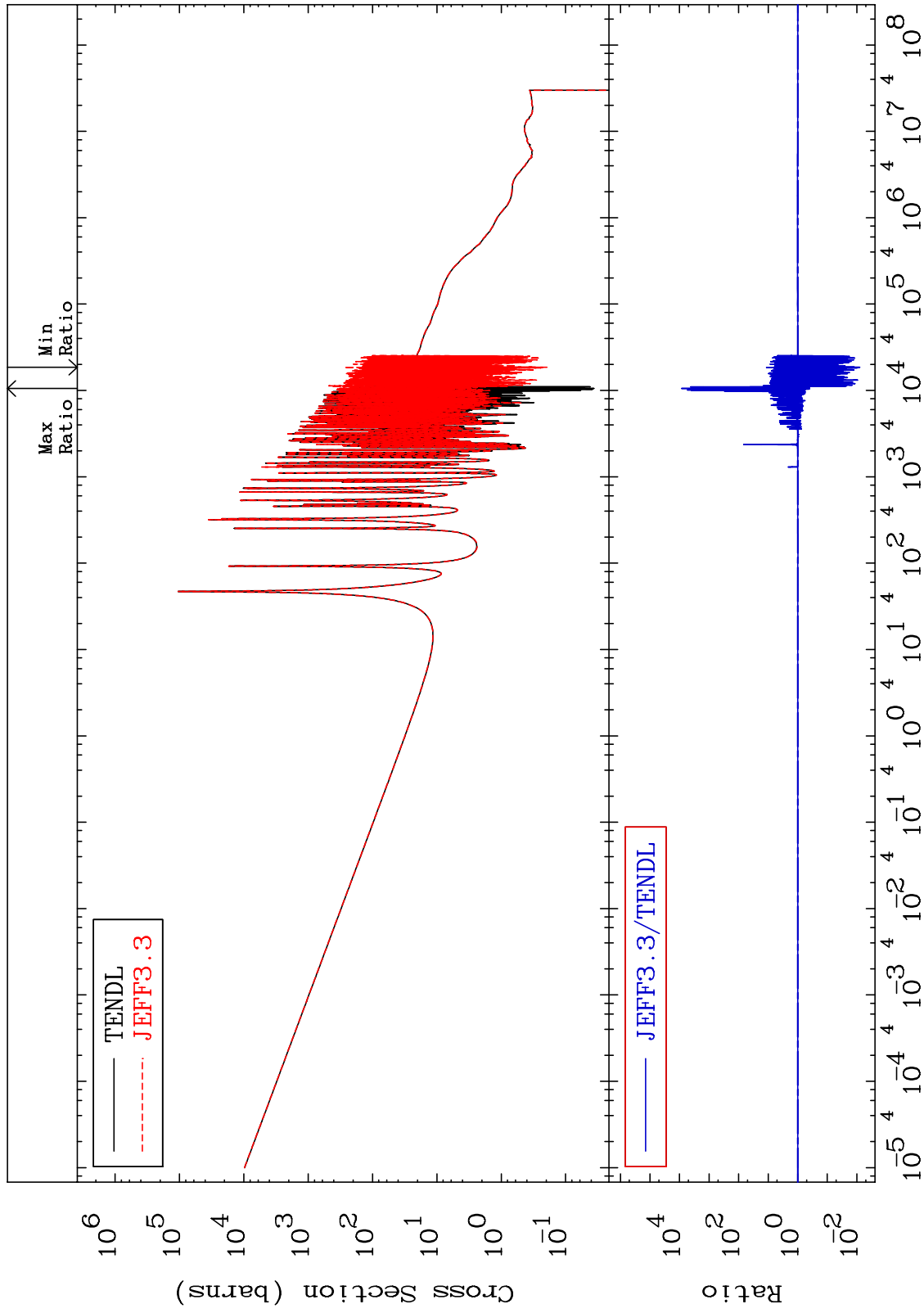
Incident Energy (eV)

33-As-75

MAT 3325

Kerma capture (mt102)
Cross Section

33-As-75
-99.20 To 9999. %



73

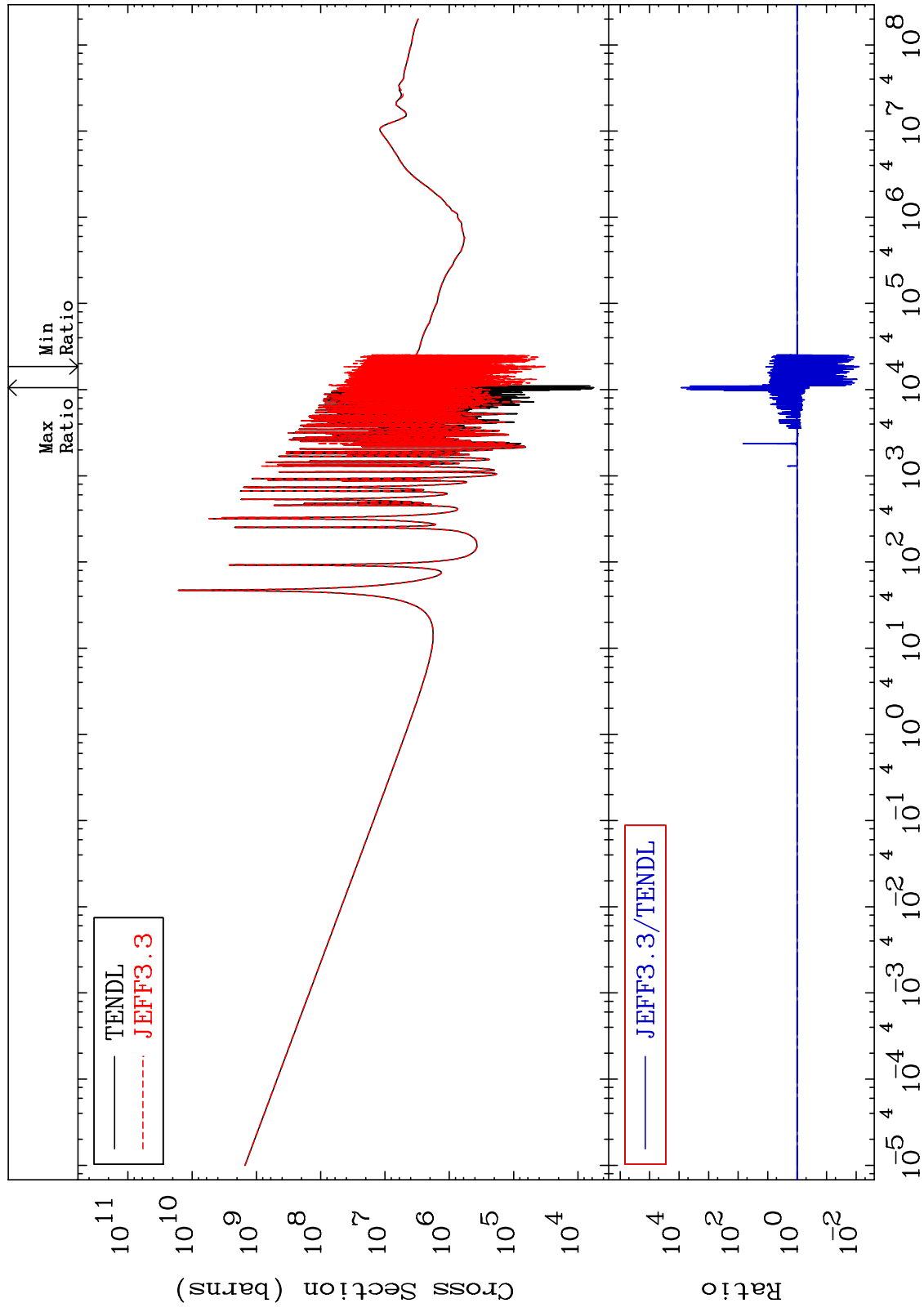
Incident Energy (eV)

33-As-75

MAT 3325

Total photon (eV-barns)
Cross Section

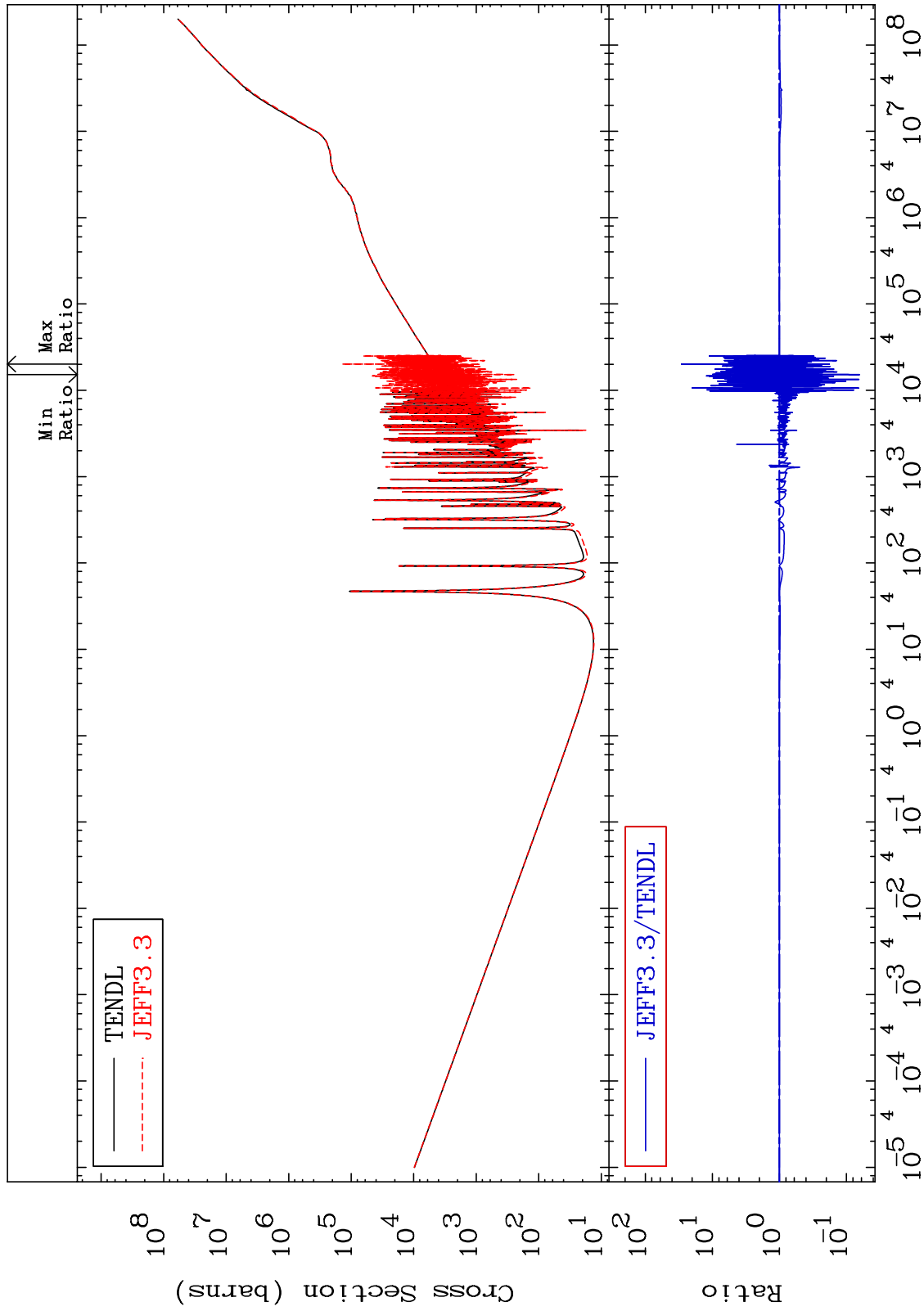
33-As-75
-99.20 To 9999. %



MAT 3325

Total kinematic kerma (high limit)
Cross Section

33-As-75
-93.66 To 2811. %



75

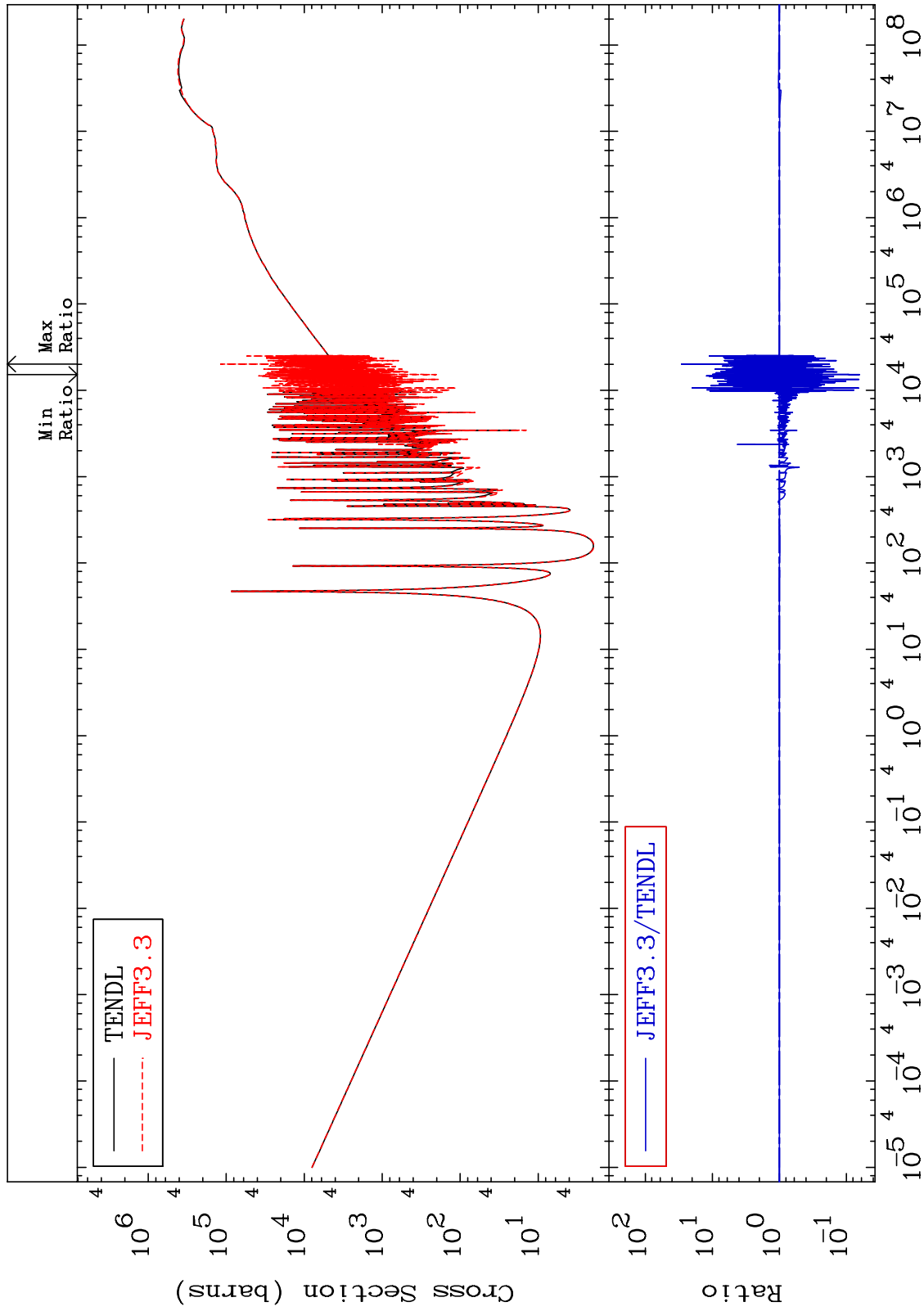
Incident Energy (eV)

33-As-75

MAT 3325

Dpa total (eV-barns)
Cross Section

33-As-75
-93.66 To 2811. %



76

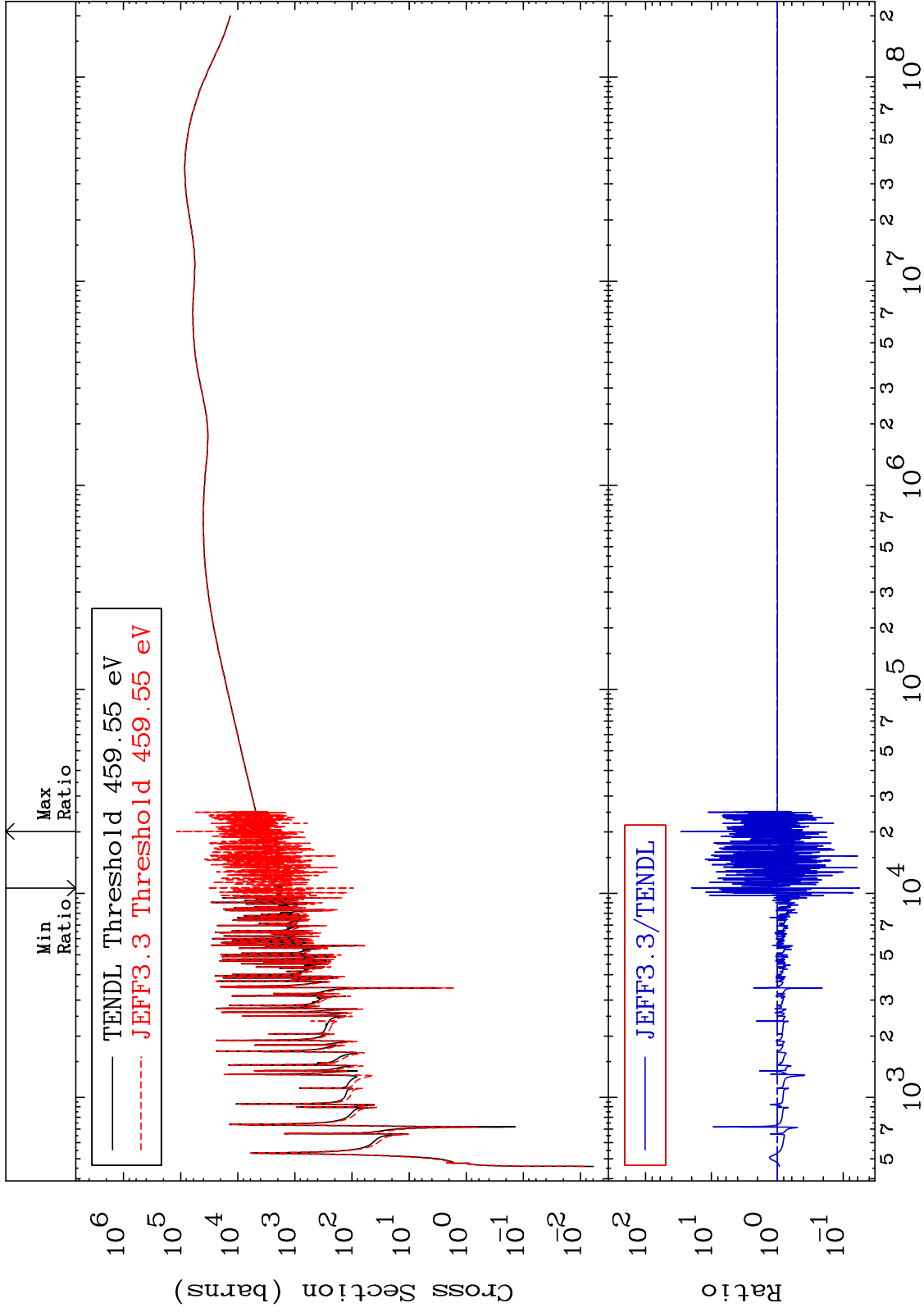
Incident Energy (eV)

33-As-75

MAT 3325

Dpa elastic (mt2)
Cross Section

33-As-75
-94.39 To 2821. %

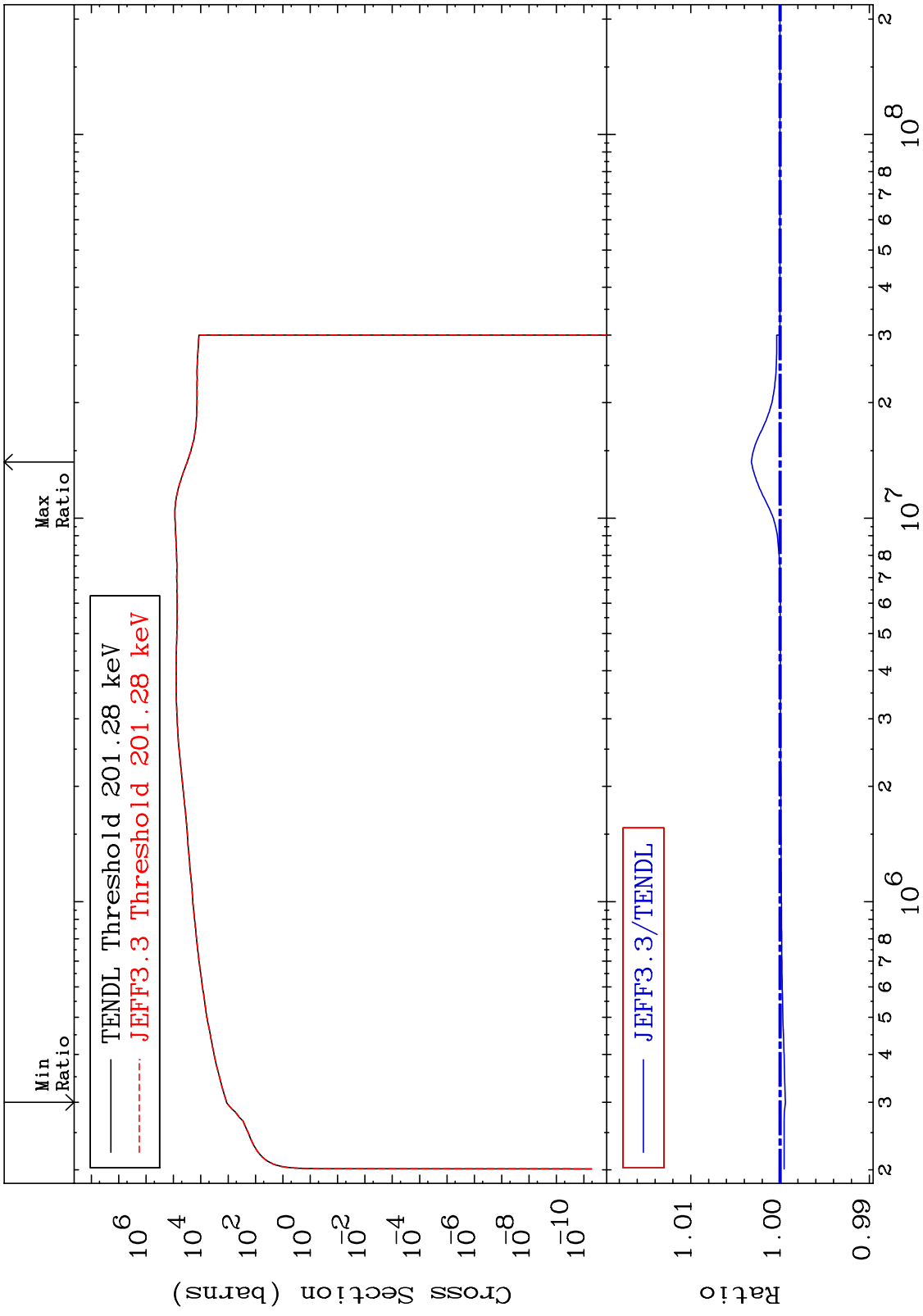


77

33-As-75

33-As-75

MAT 3325 Dpa inelastic (mt51-91) 33-As-75
 Cross Section -0.060 To 0.321 %

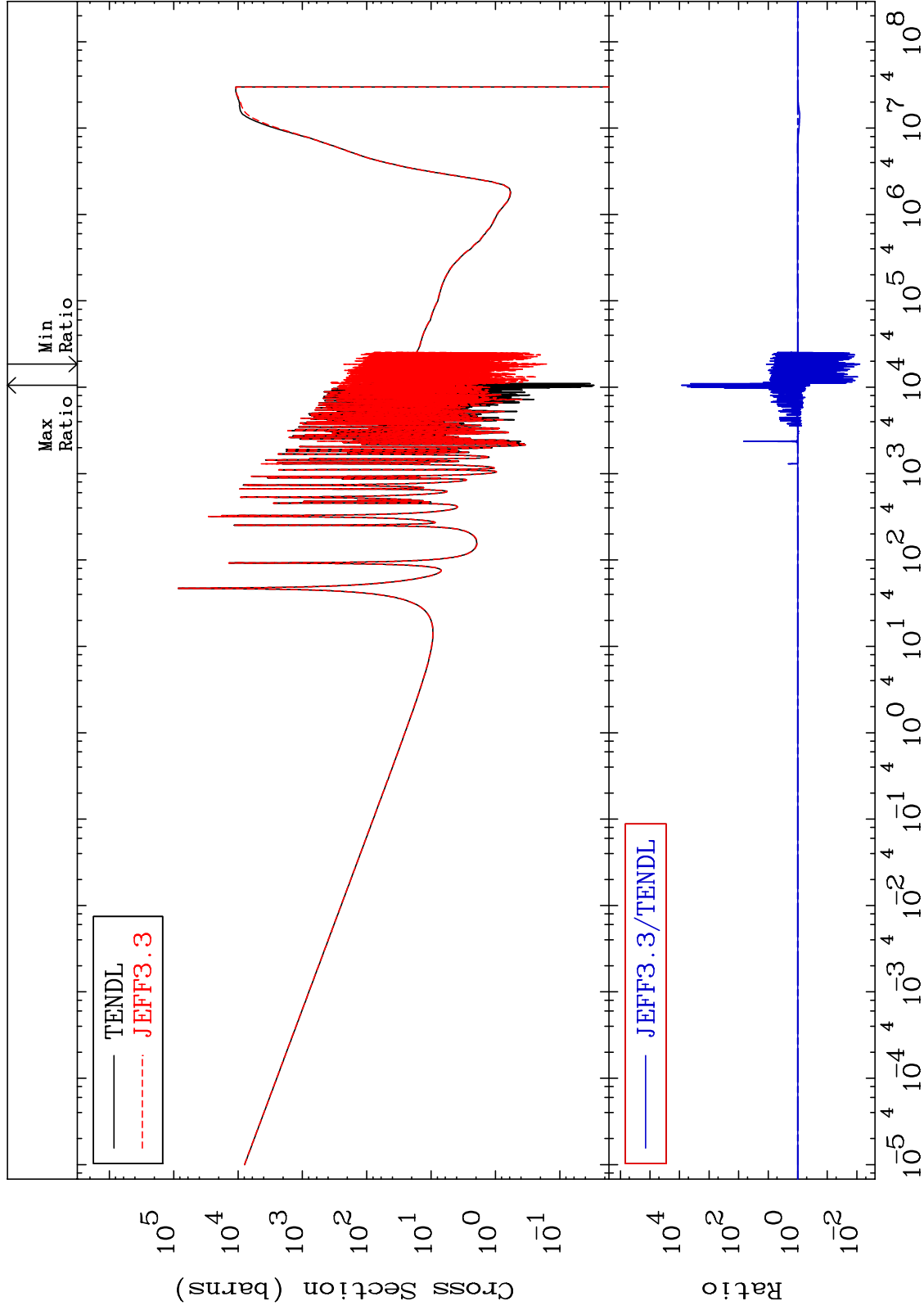


78 33-As-75

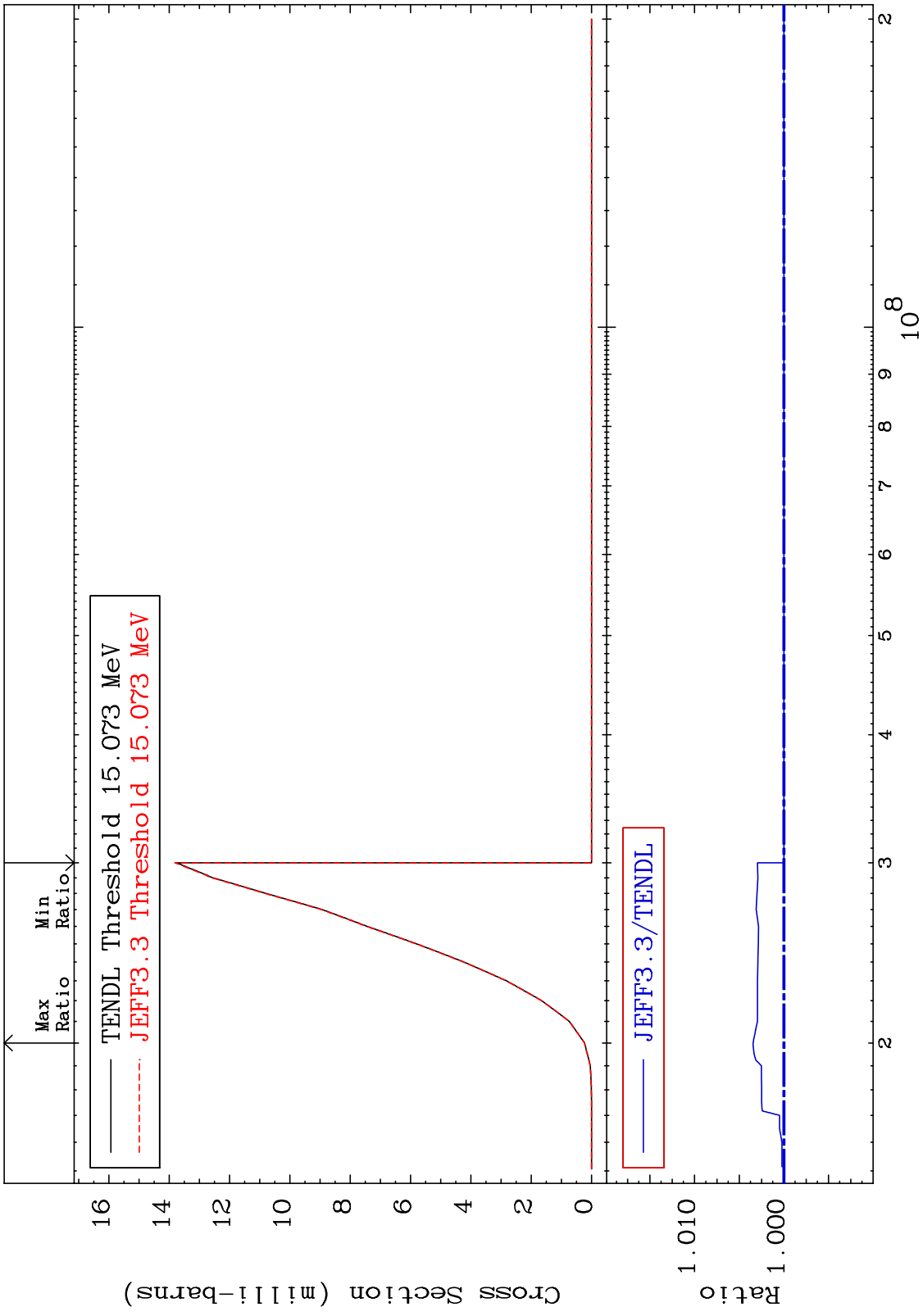
MAT 3325

Dpa disappearance (mt102 -120)
Cross Section

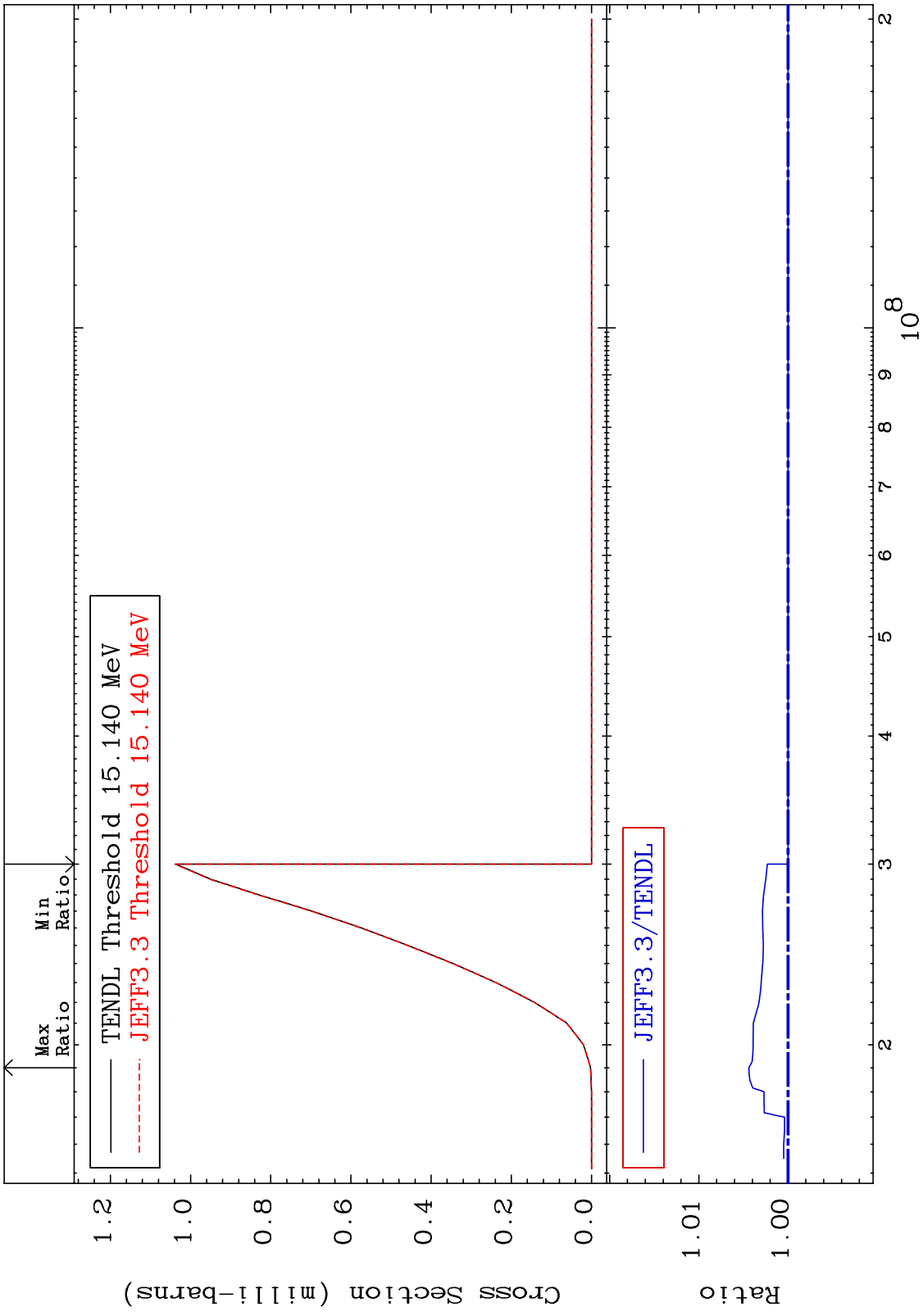
33-As-75
-99.20 To 9999. %



MAT 3325 (n,n') d:32-Ge-73g 33-As-75
 Radionuclide Production Cross Section 0.000 To 0.345 %

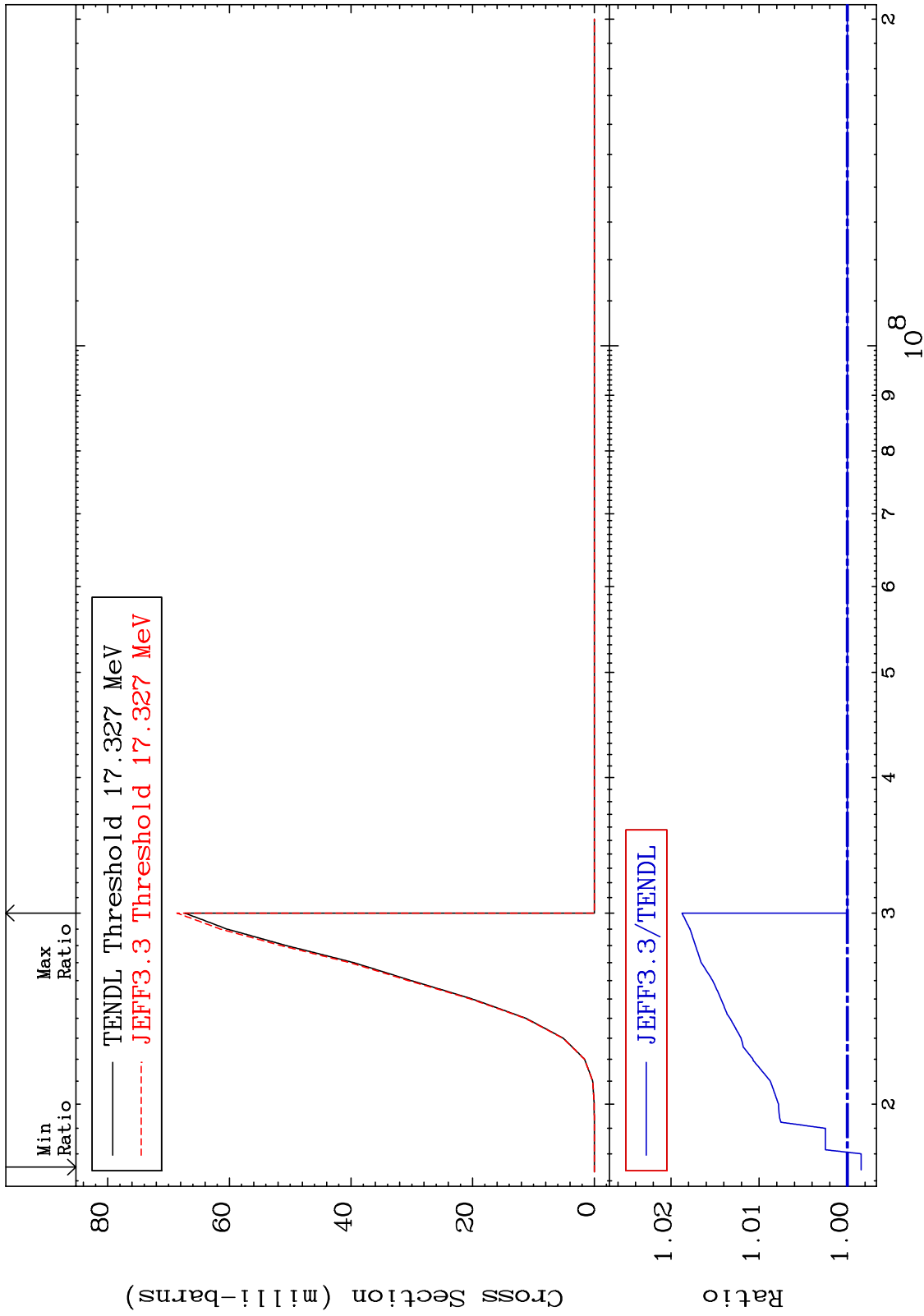


MAT 3325 (n, n') d:32-Ge-73m2 33-As-75
 Radionuclide Production Cross Section 0.000 To 0.439 %



MAT 3325

(n,2n) p:32-Ge-73g 33-As-75
Radionuclide Production Cross Section -0.156 To 1.874 %

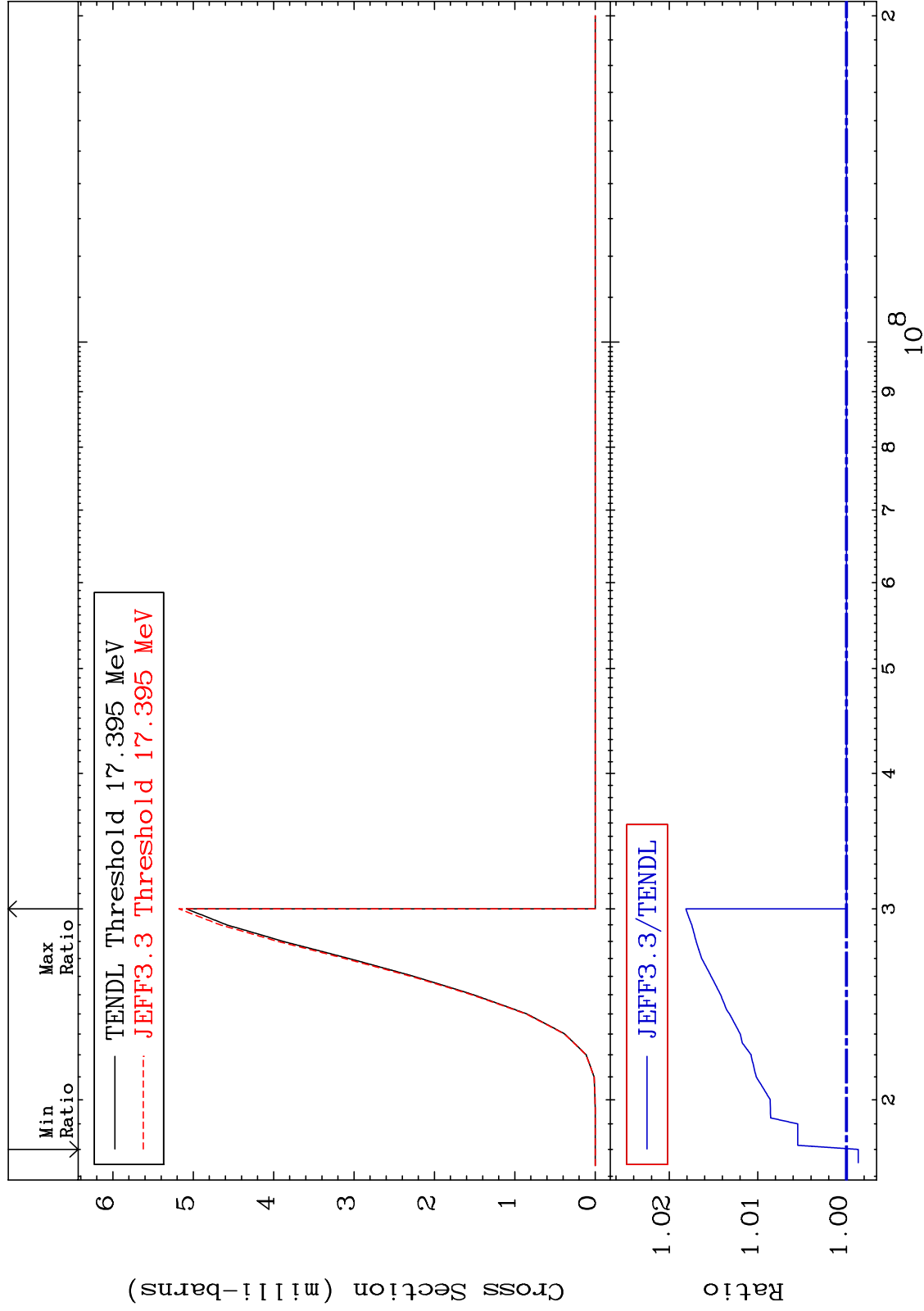


MAT 3325

(n,2n) p:32-Ge-73m2

33-As-75

Radionuclide Production Cross Section -0.134 To 1.813 %

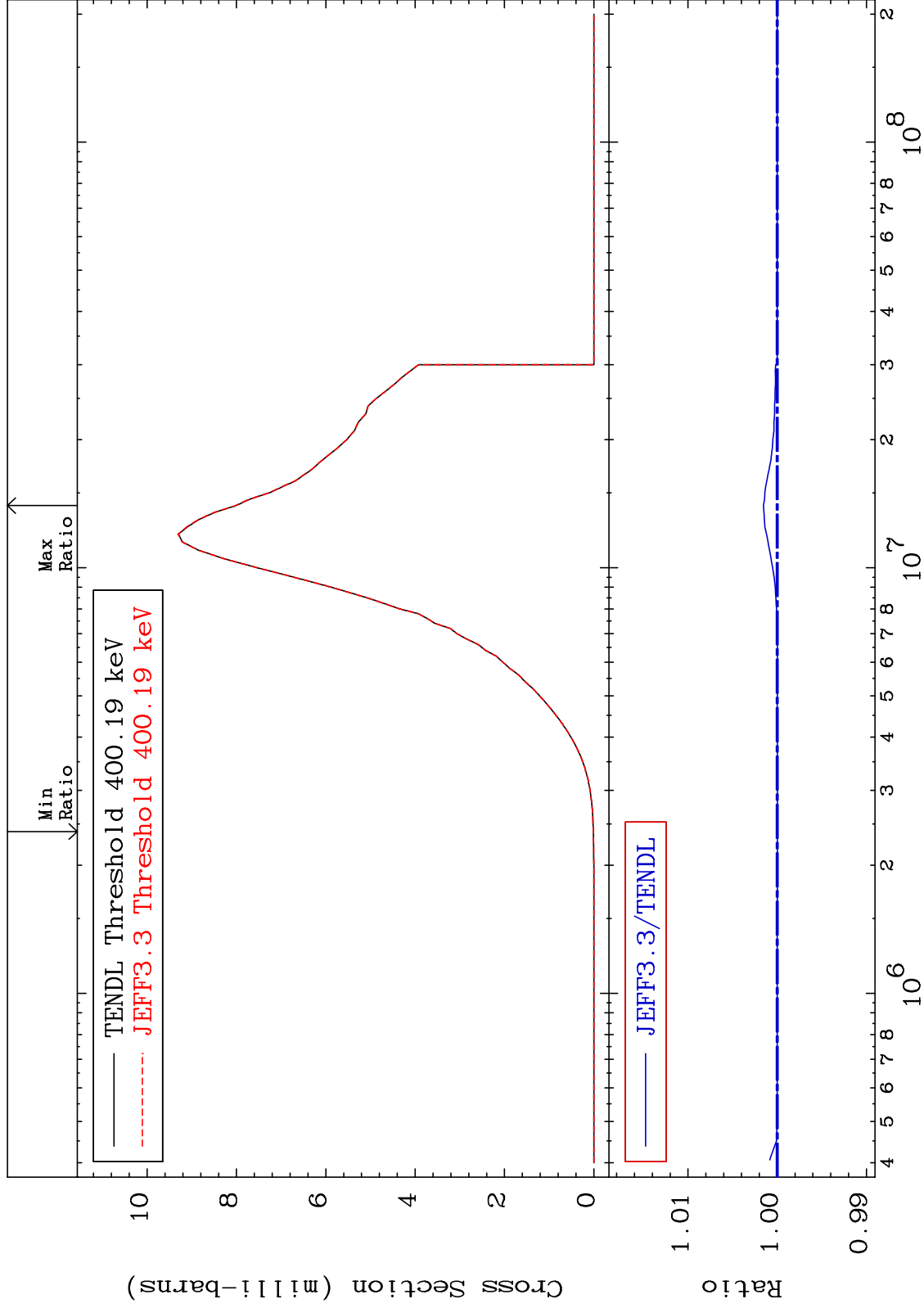


MAT 3325

(n,p):32-Ge-75g

33-As-75

Radionuclide Production Cross Section -0.003 To 0.153 %

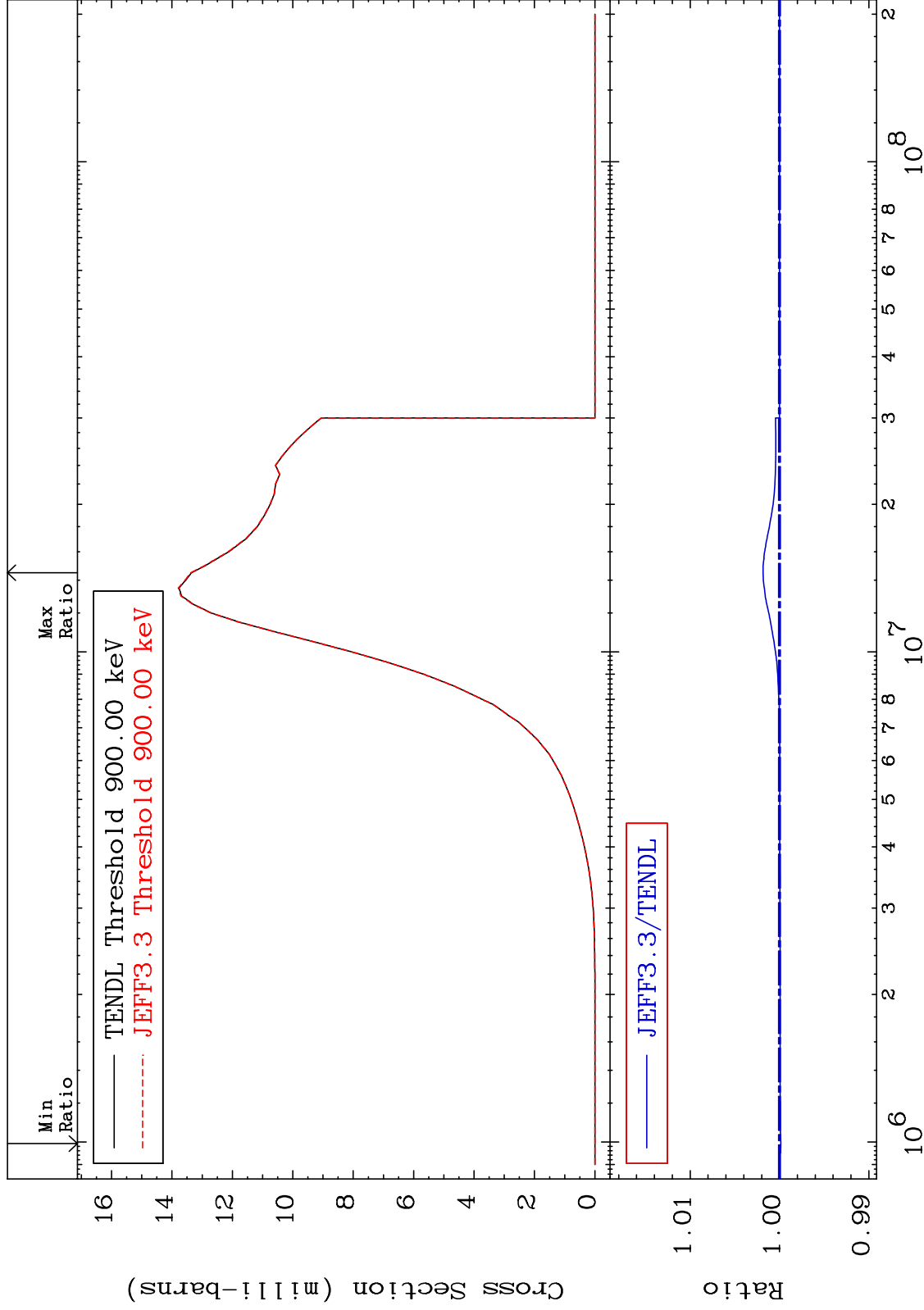


MAT 3325

(n,p):32-Ge-75m2

33-As-75

Radionuclide Production Cross Section -0.013 To 0.184 %

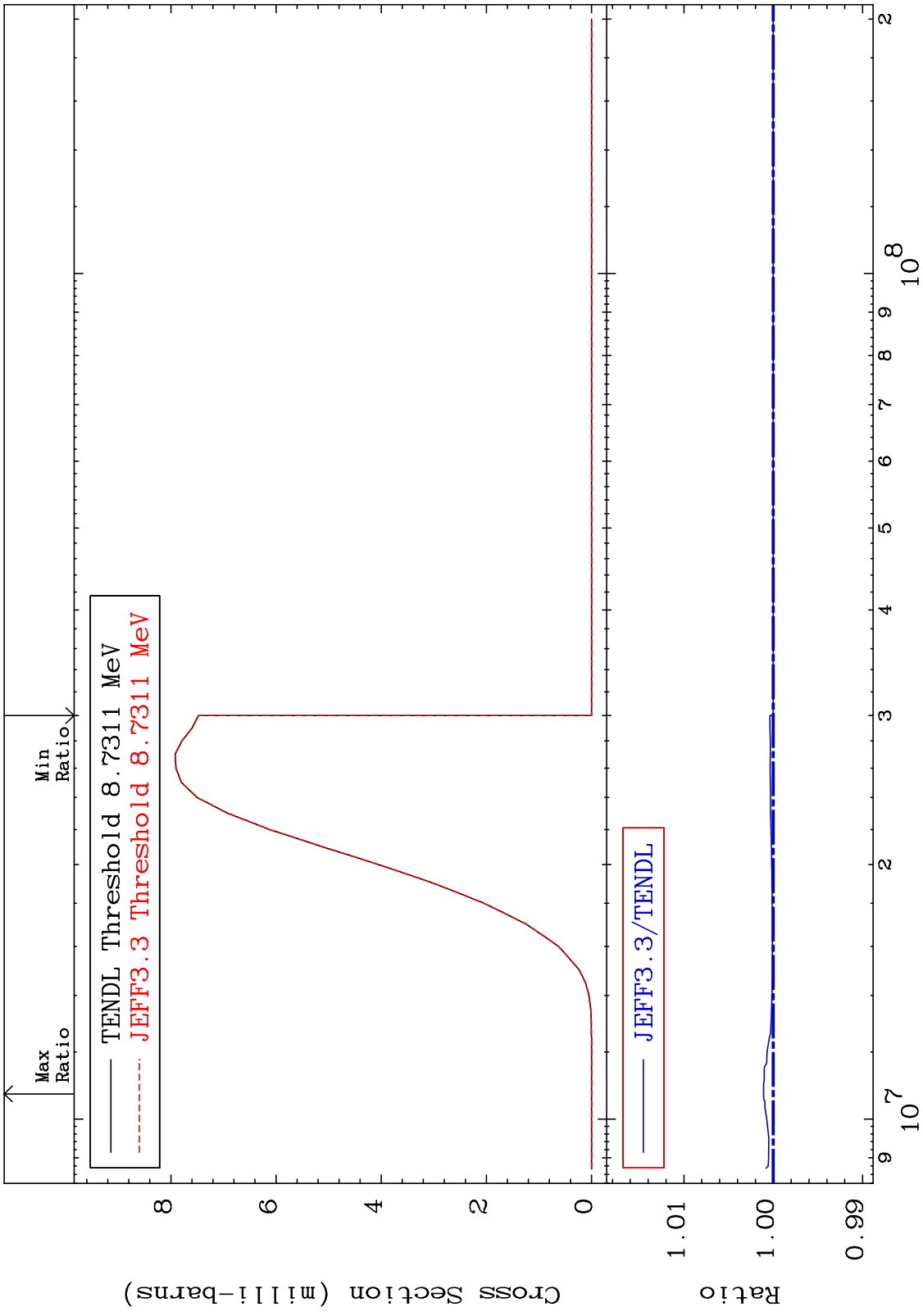


85

Incident Energy (eV)

33-As-75

MAT 3325 (n,t):32-Ge-73g 33-As-75
Radionuclide Production Cross Section 0.000 To 0.108 %

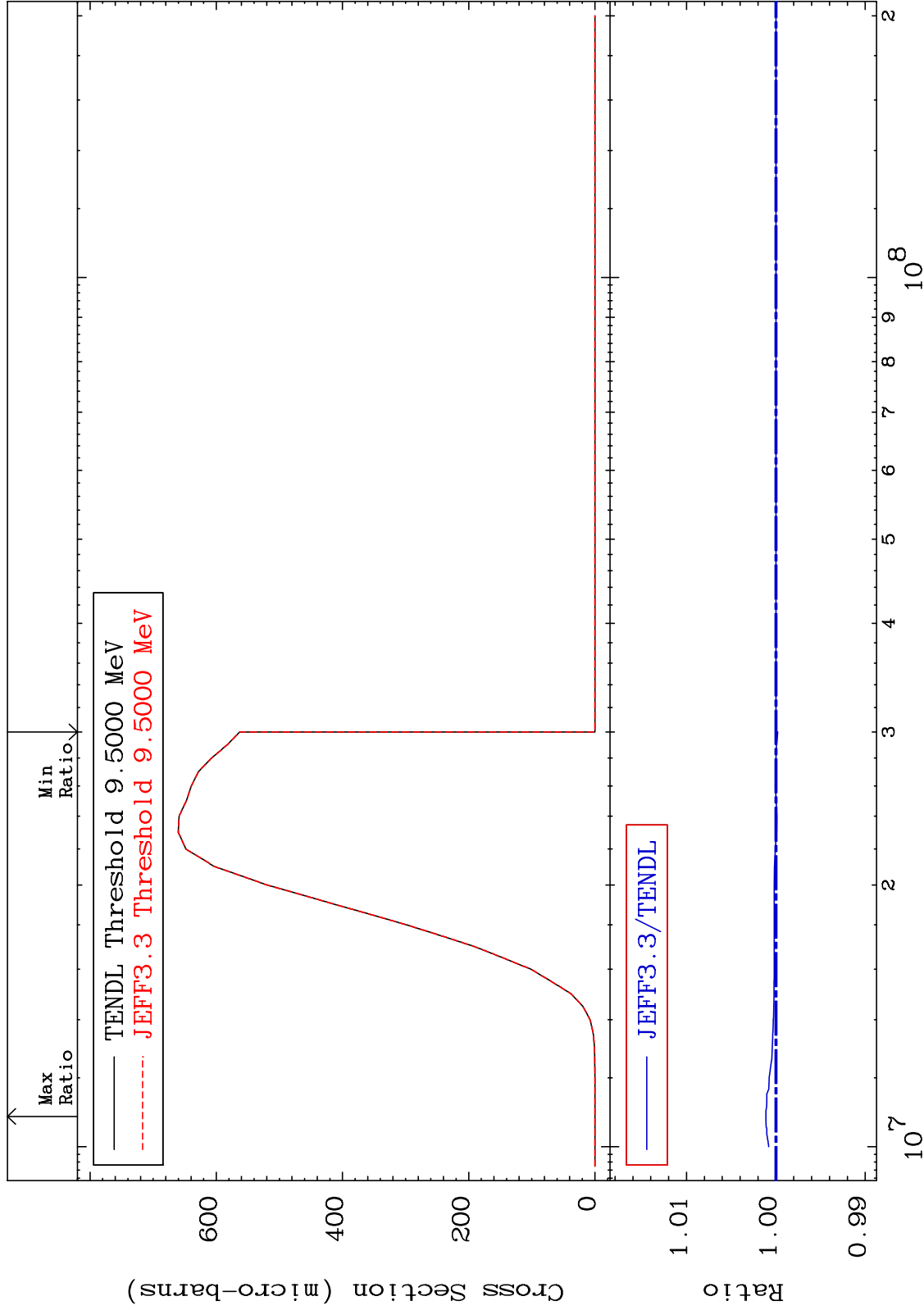


MAT 3325

(n, t) : 32-Ge-73m2

33-As-75

Radionuclide Production Cross Section -0.021 To 0.112 %



87

Incident Energy (eV)

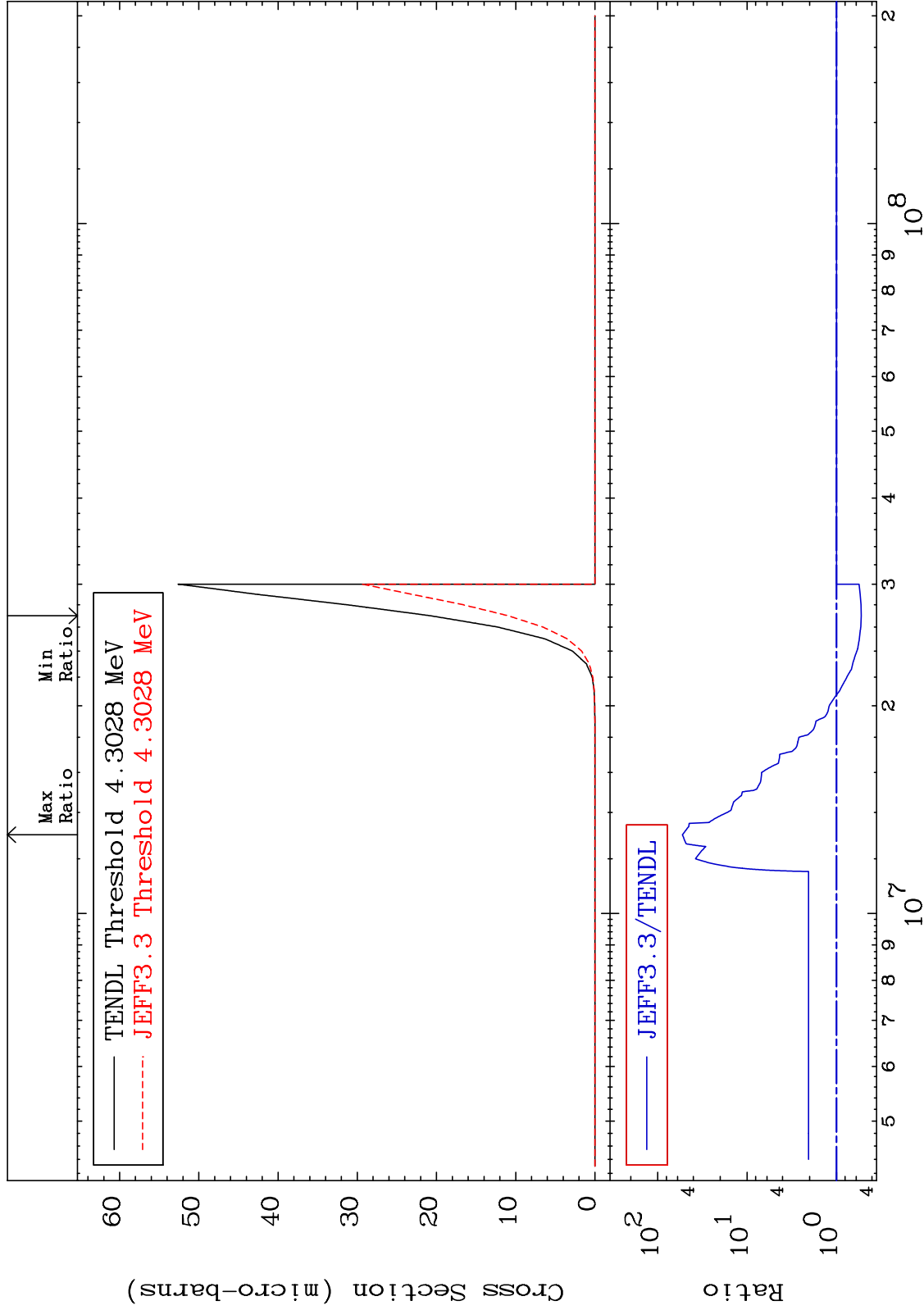
33-As-75

MAT 3325

(n,2α):29-Cu-68g

33-As-75

Radionuclide Production Cross Section -47.26 To 5183. %

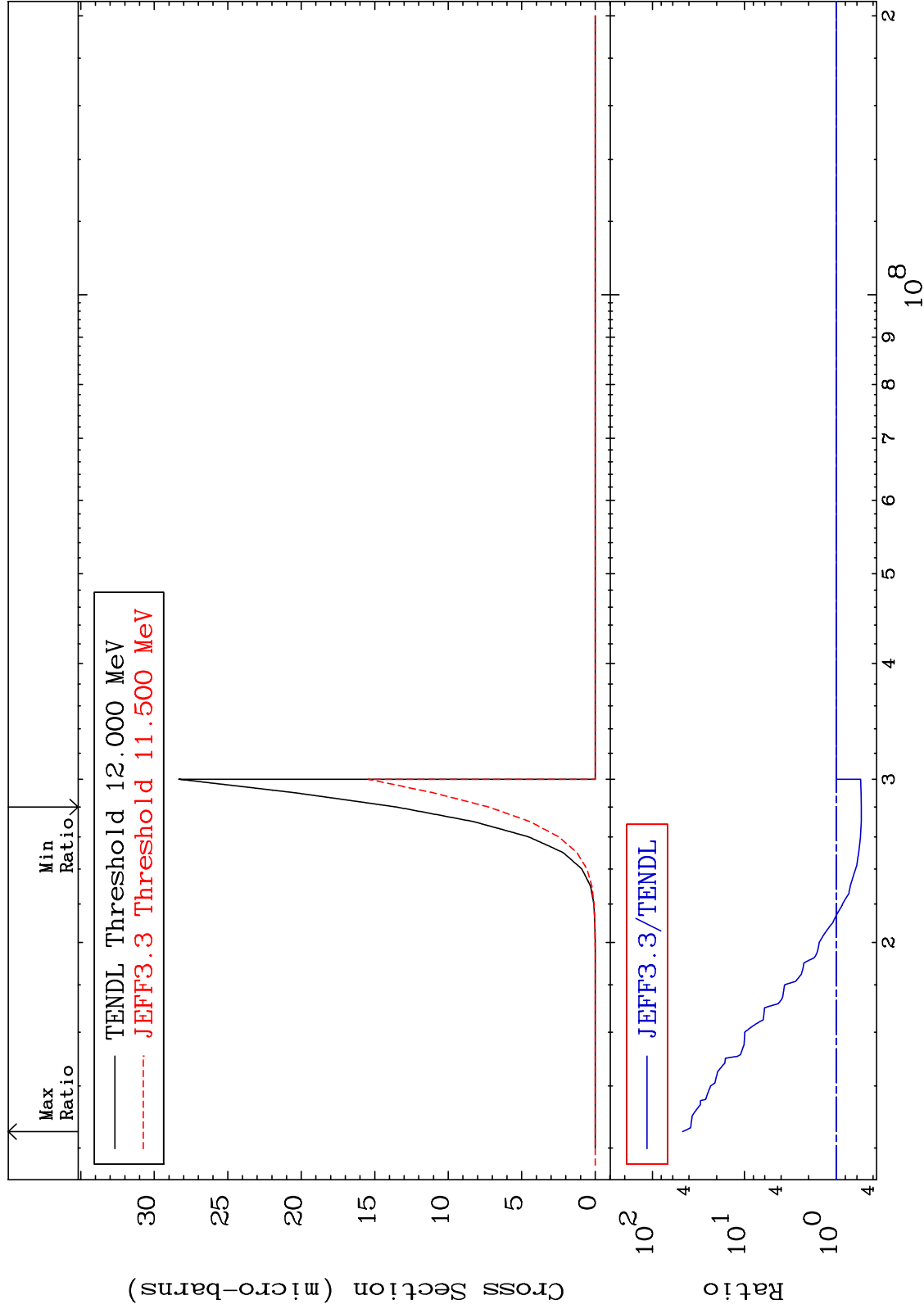


MAT 3325

(n,2α):29-Cu-68m3

33-As-75

Radionuclide Production Cross Section -46.38 To 4585. %

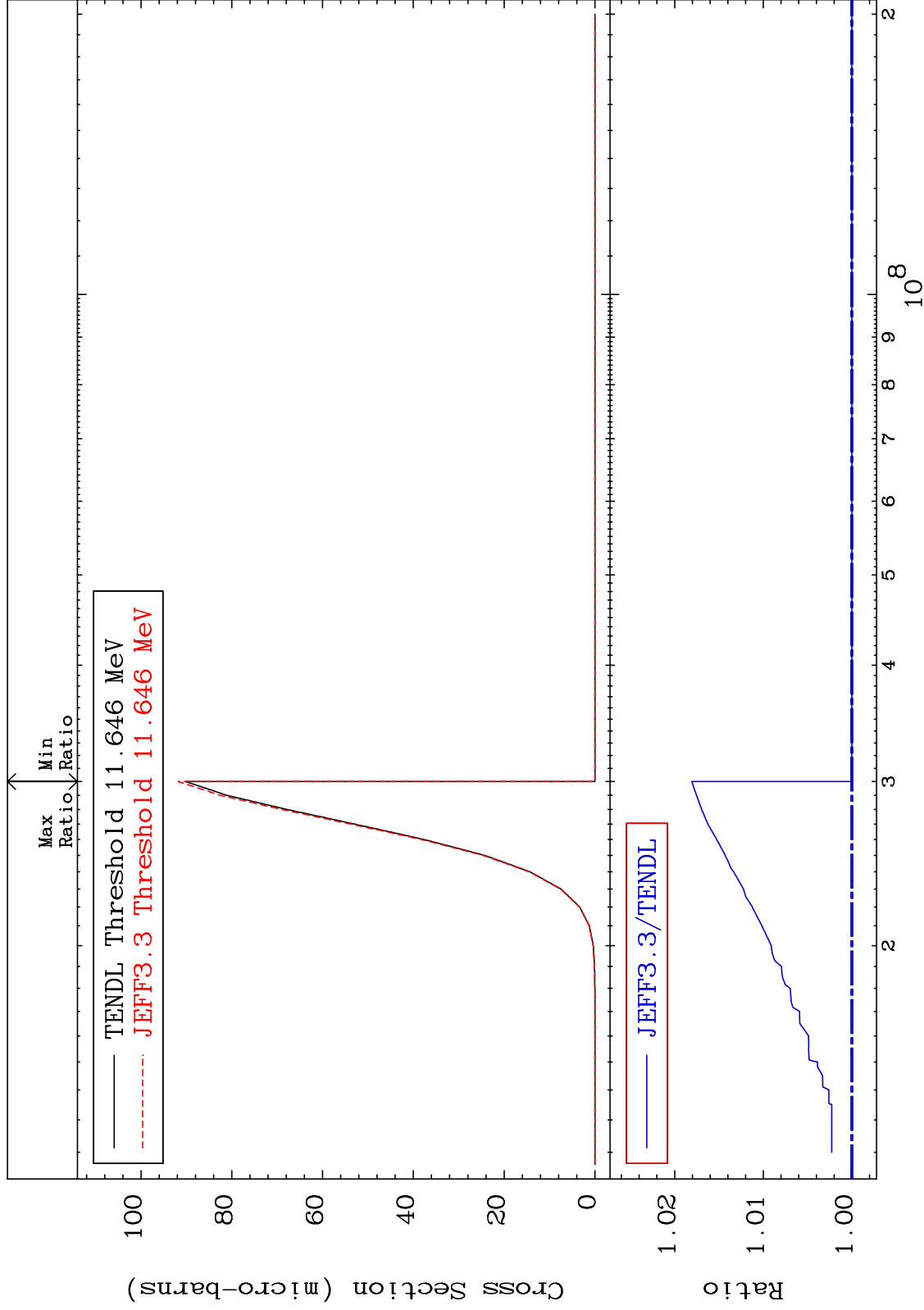


MAT 3325

(n,2p):31-Ga-74g

33-As-75

Radionuclide Production Cross Section 0.000 To 1.805 %

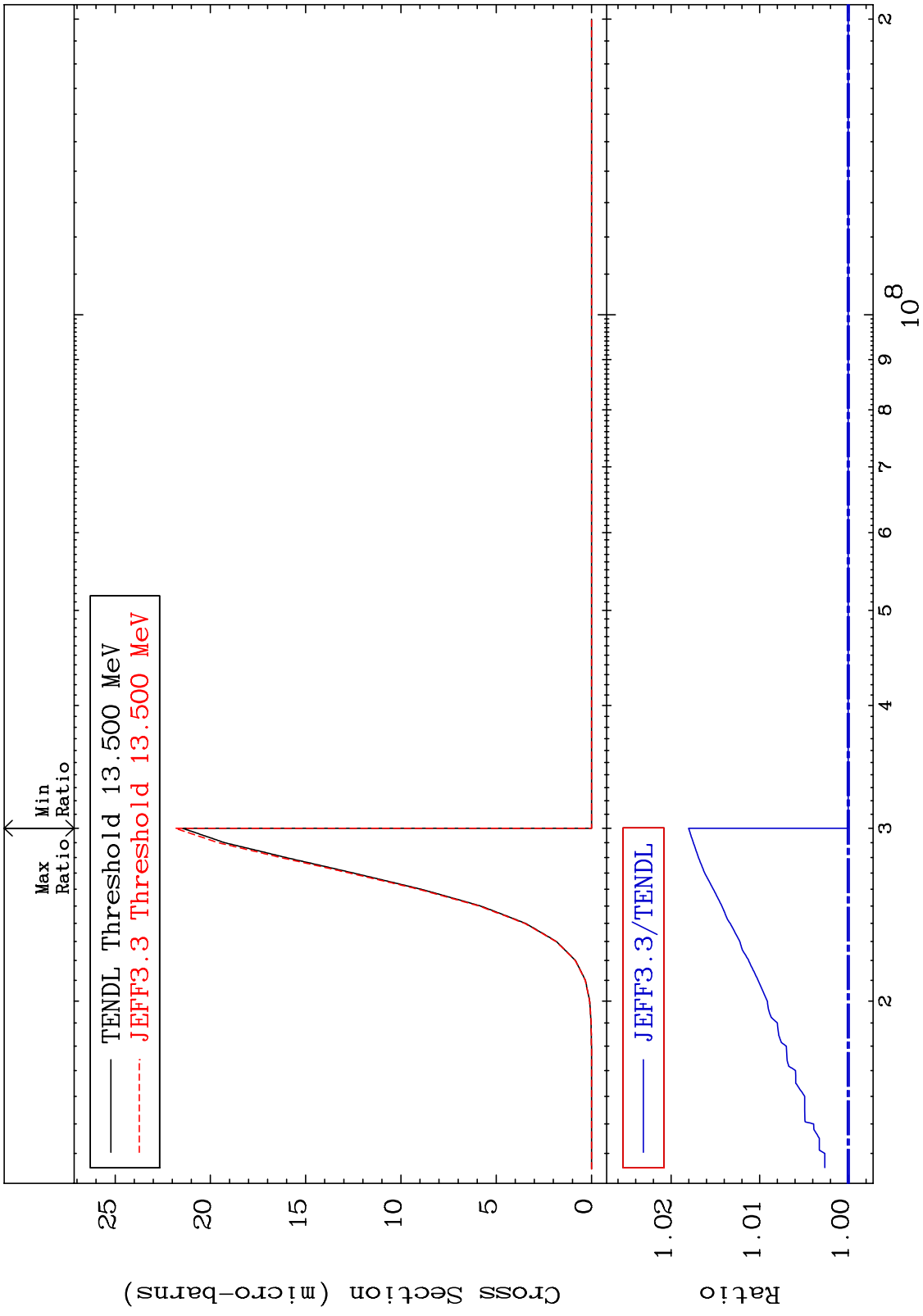


90

Incident Energy (eV)

33-As-75

MAT 3325 (n,2p):31-Ga-74m2 33-As-75
 Radionuclide Production Cross Section 0.000 To 1.802 %

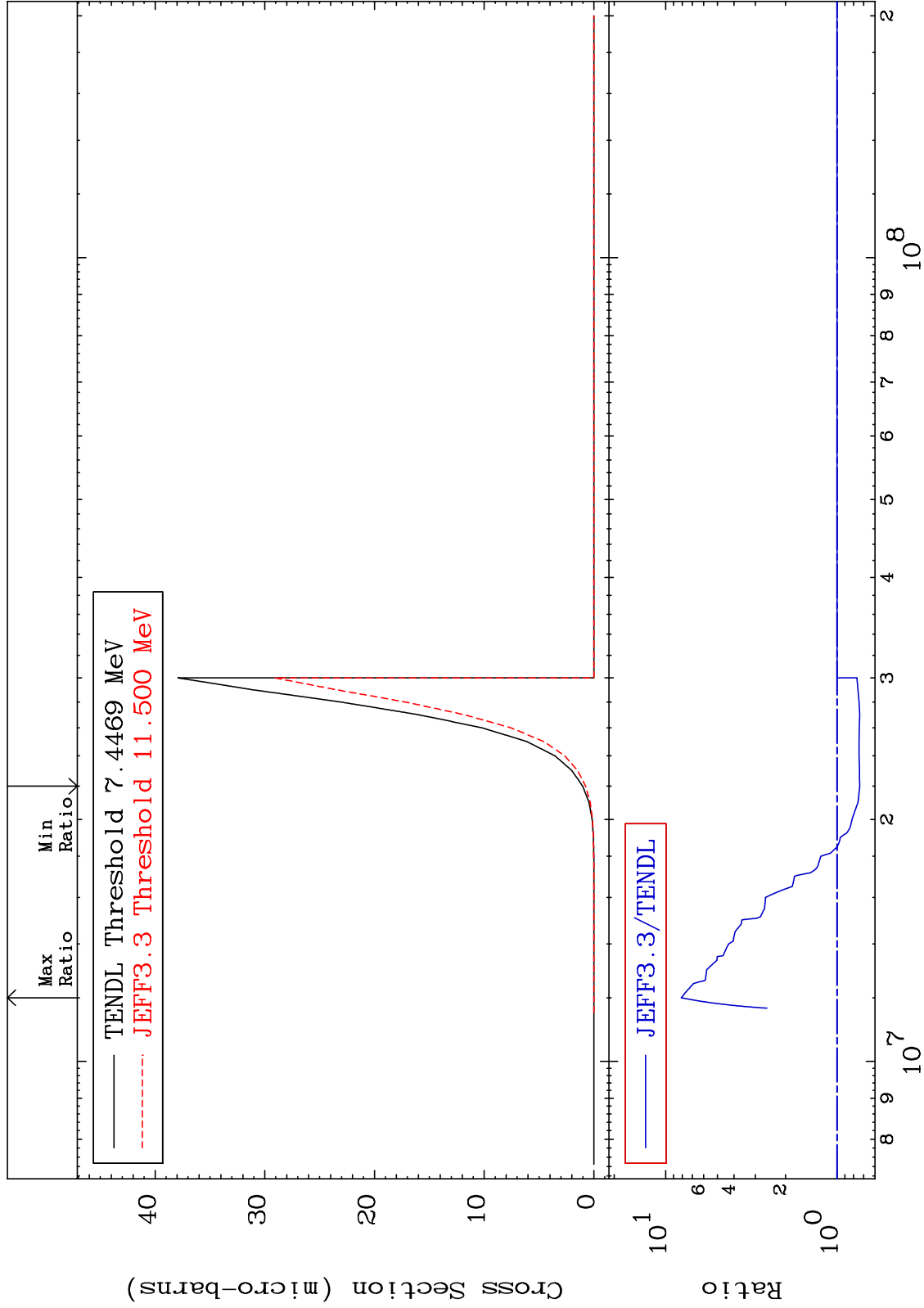


MAT 3325

(n,p) α :30-Zn-71g

33-As-75

Radionuclide Production Cross Section -26.25 To 711.8 %



92

Incident Energy (eV)

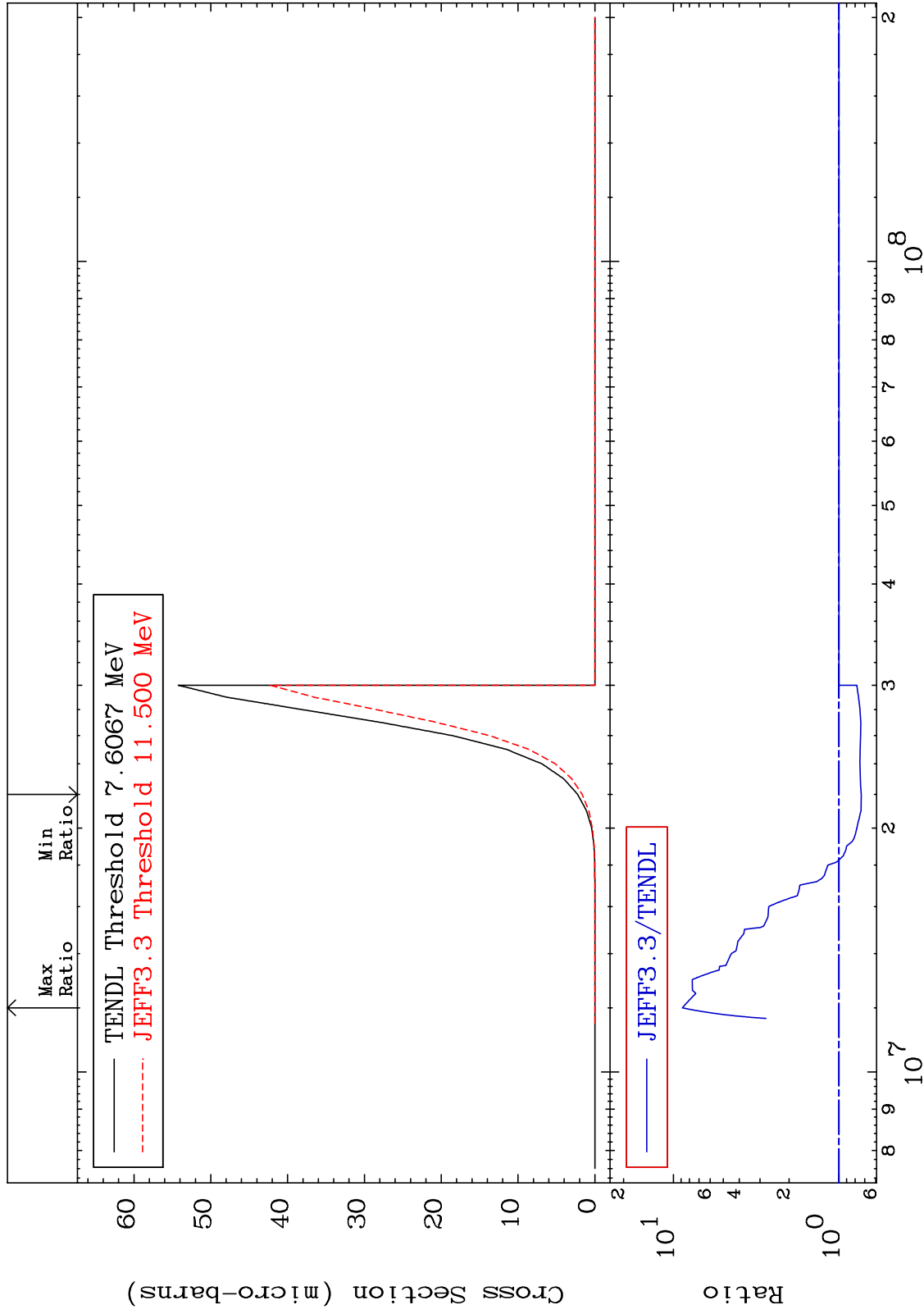
33-As-75

MAT 3325

(n,p) α :30-Zn-71m1

33-As-75

Radionuclide Production Cross Section -26.65 To 781.9 %



93

Incident Energy (eV)

33-As-75