

Program Complot
(Version 2018-1)

by

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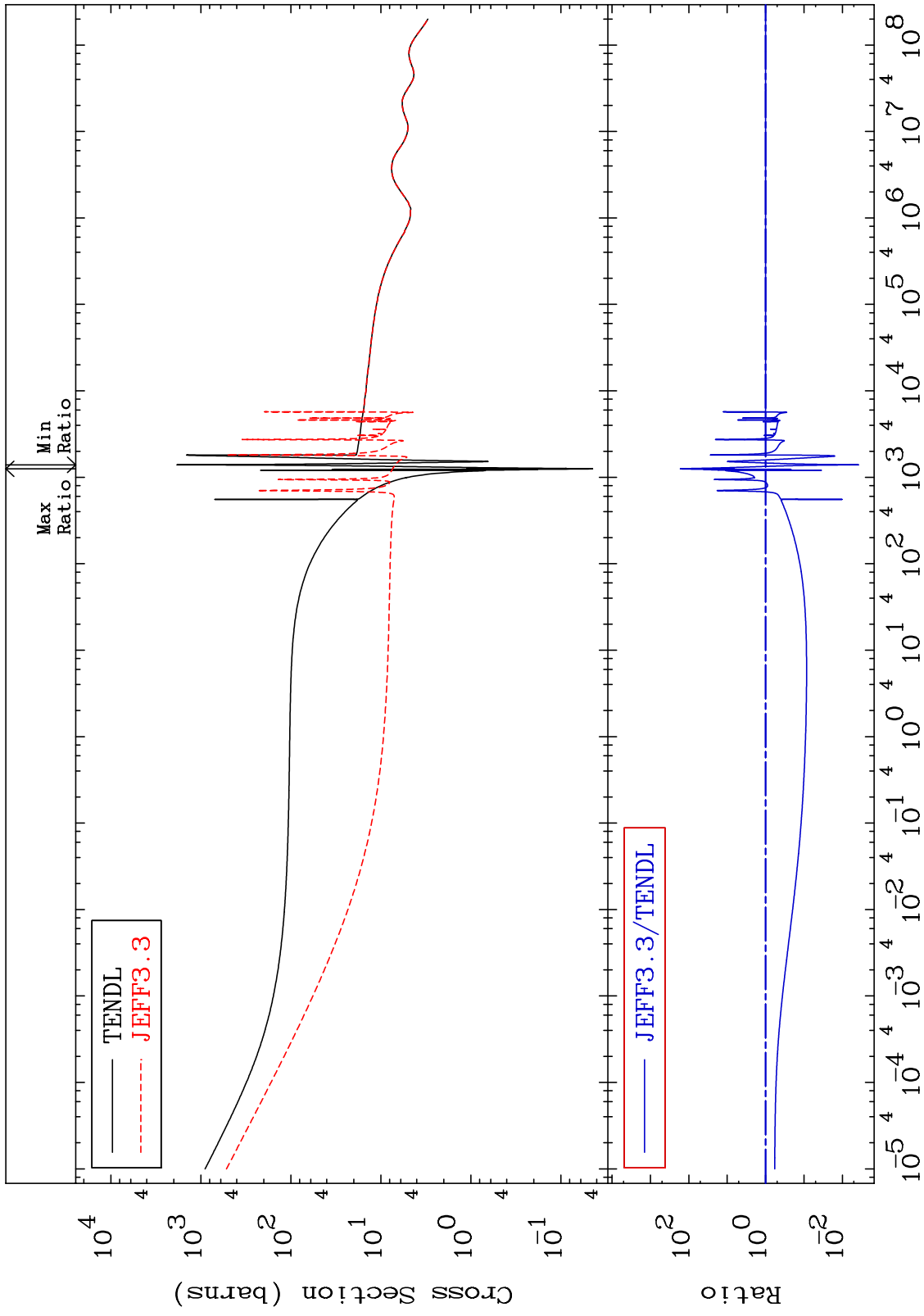
Press Mouse Button to Start

MAT 8431

Total
Cross Section

84-Po-208

-99.63 To 9999. %



1

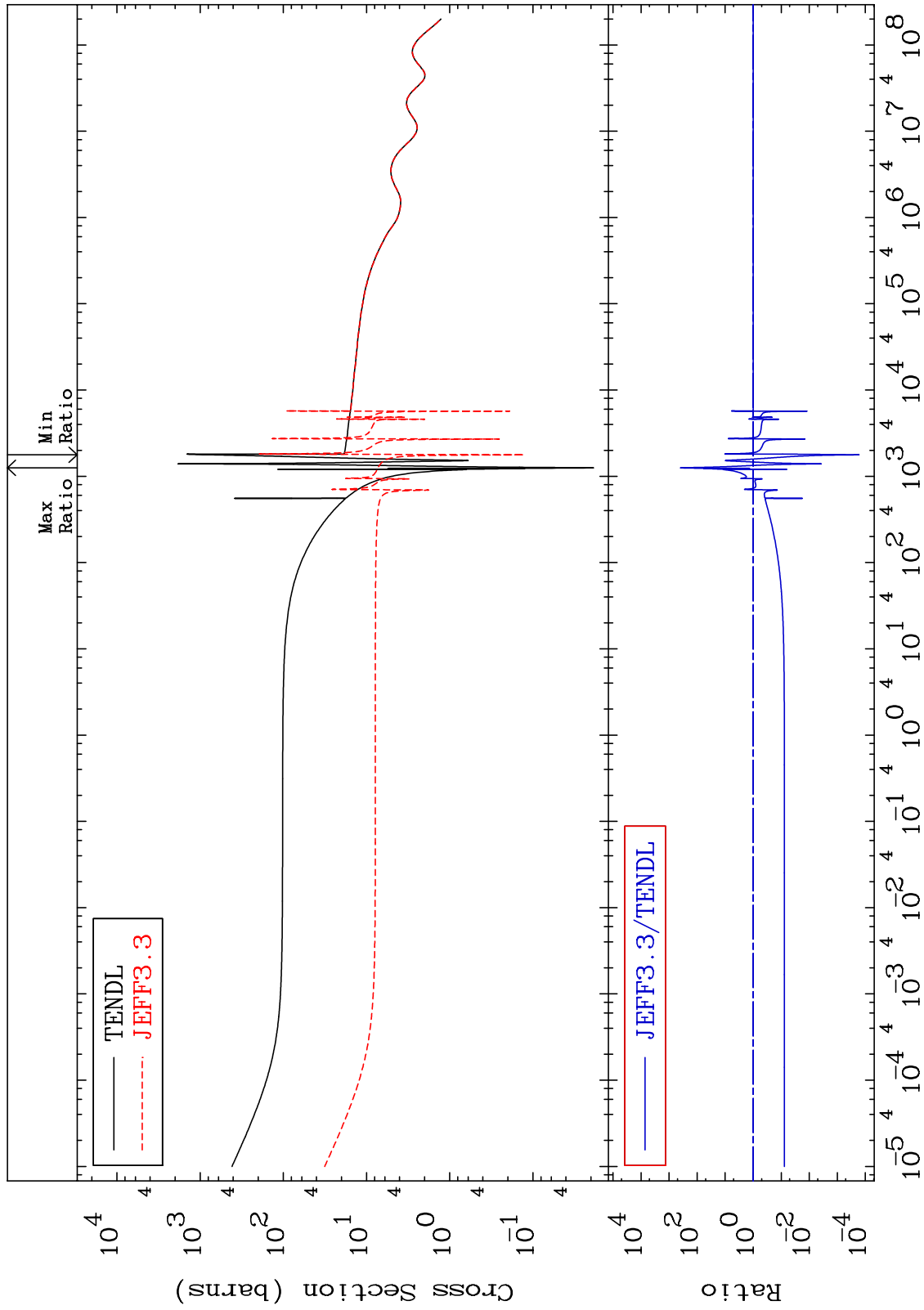
Incident Energy (eV)

84-Po-208

MAT 8431

Elastic
Cross Section

84-Po-208
-99.98 To 9999. %



2

Incident Energy (eV)

84-Po-208

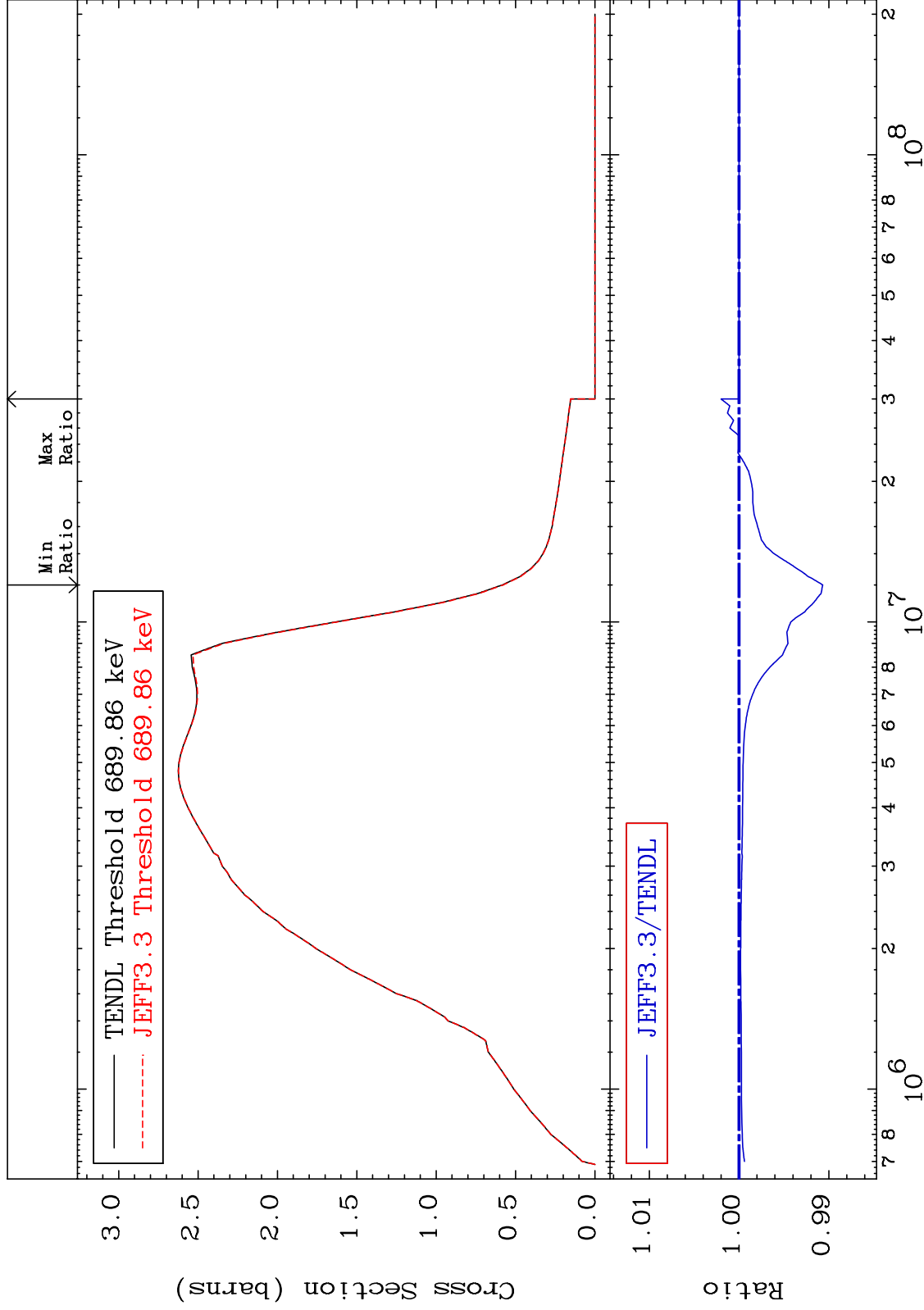
MAT 8431

Inelastic

84-Po-208

Cross Section

-0.932 To 0.201 %



3

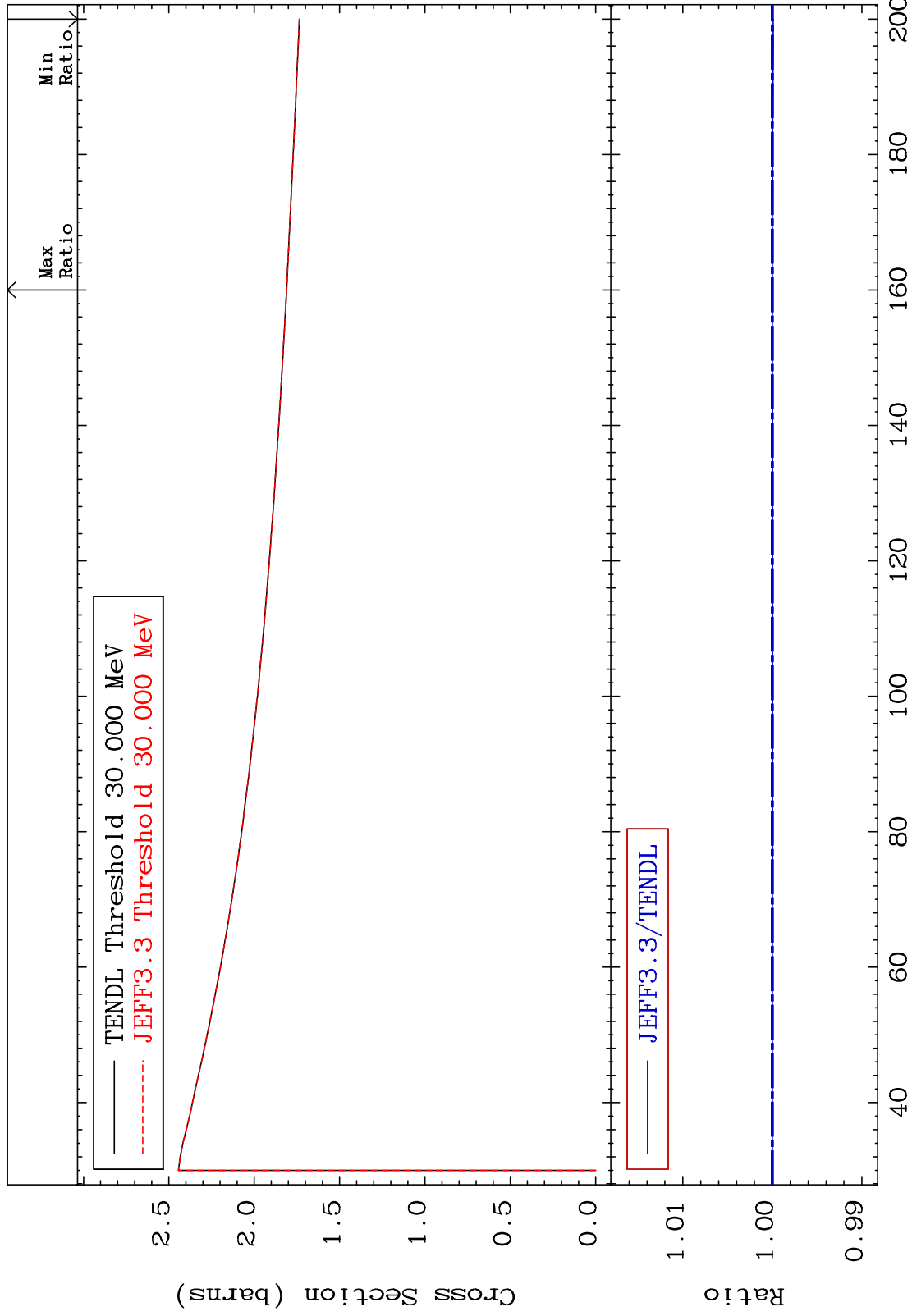
Incident Energy (eV)

84-Po-208

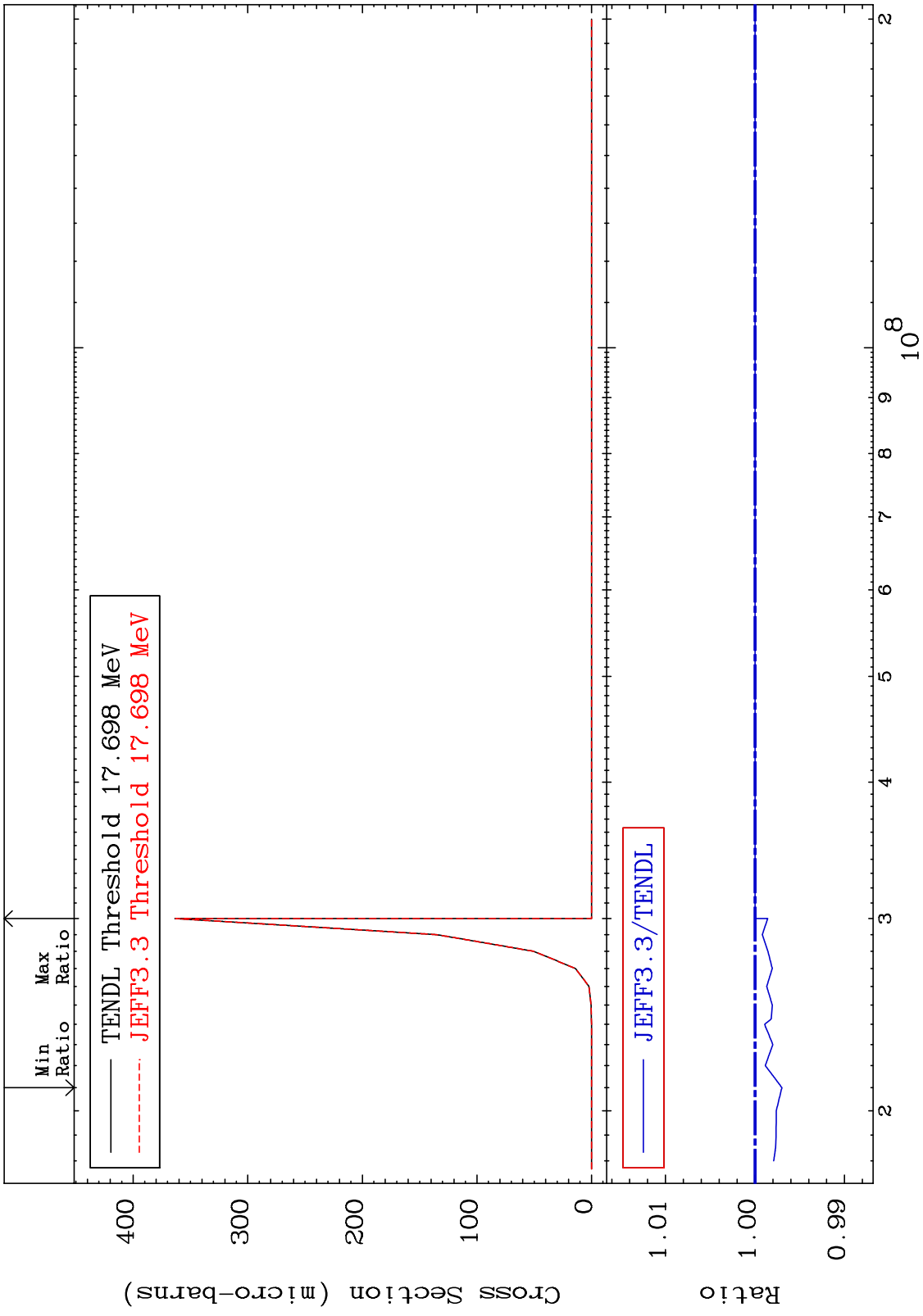
MAT 8431

(n, remainder)
Cross Section

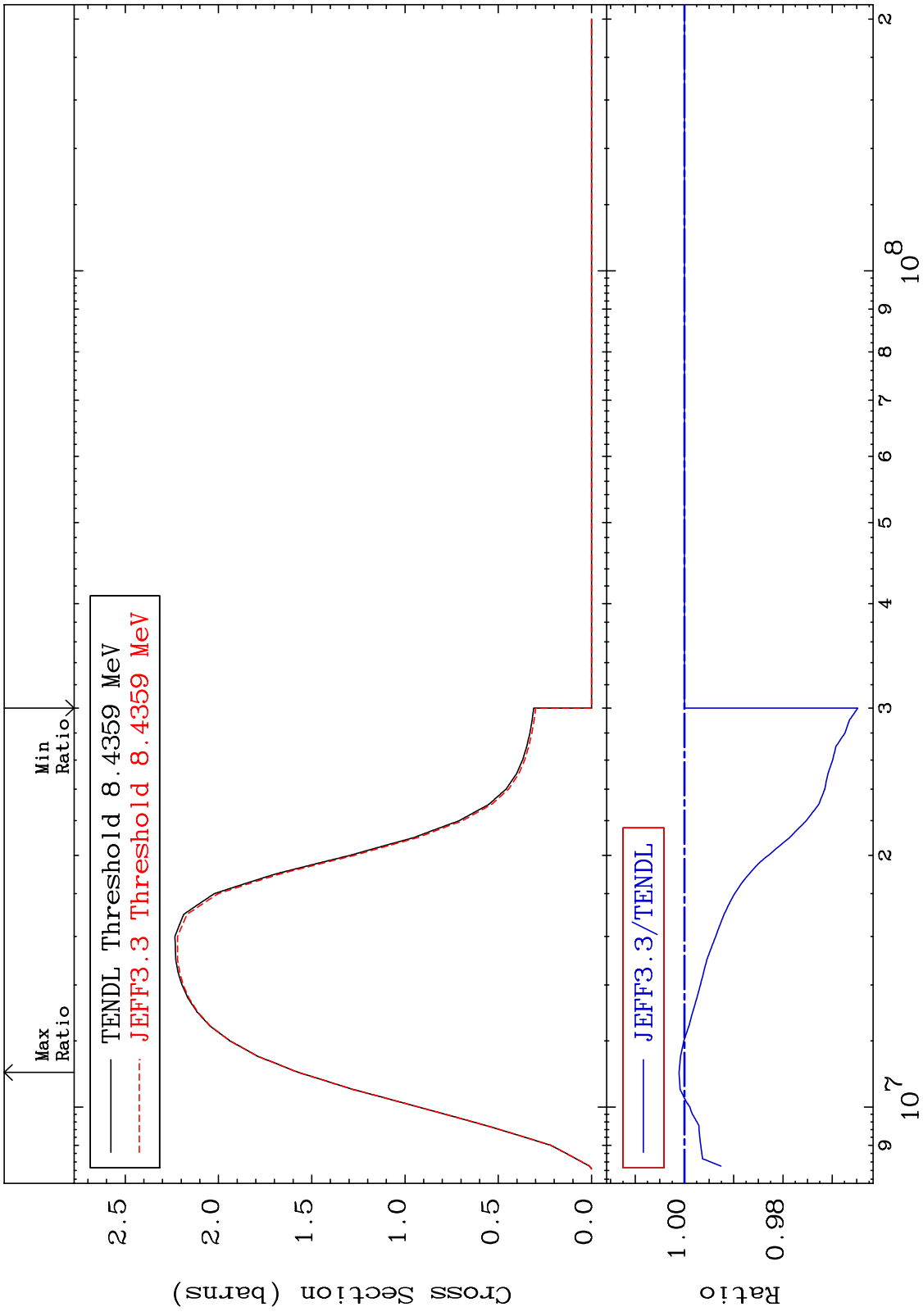
84-Po-208
-0.010 To 0.000 %



MAT 8431 (n,2n) d 84-Po-208
 Cross Section -0.300 To 0.000 %



MAT 8431 (n,2n) Cross Section 84-Po-208 -3.521 To 0.110 %



84-Po-208

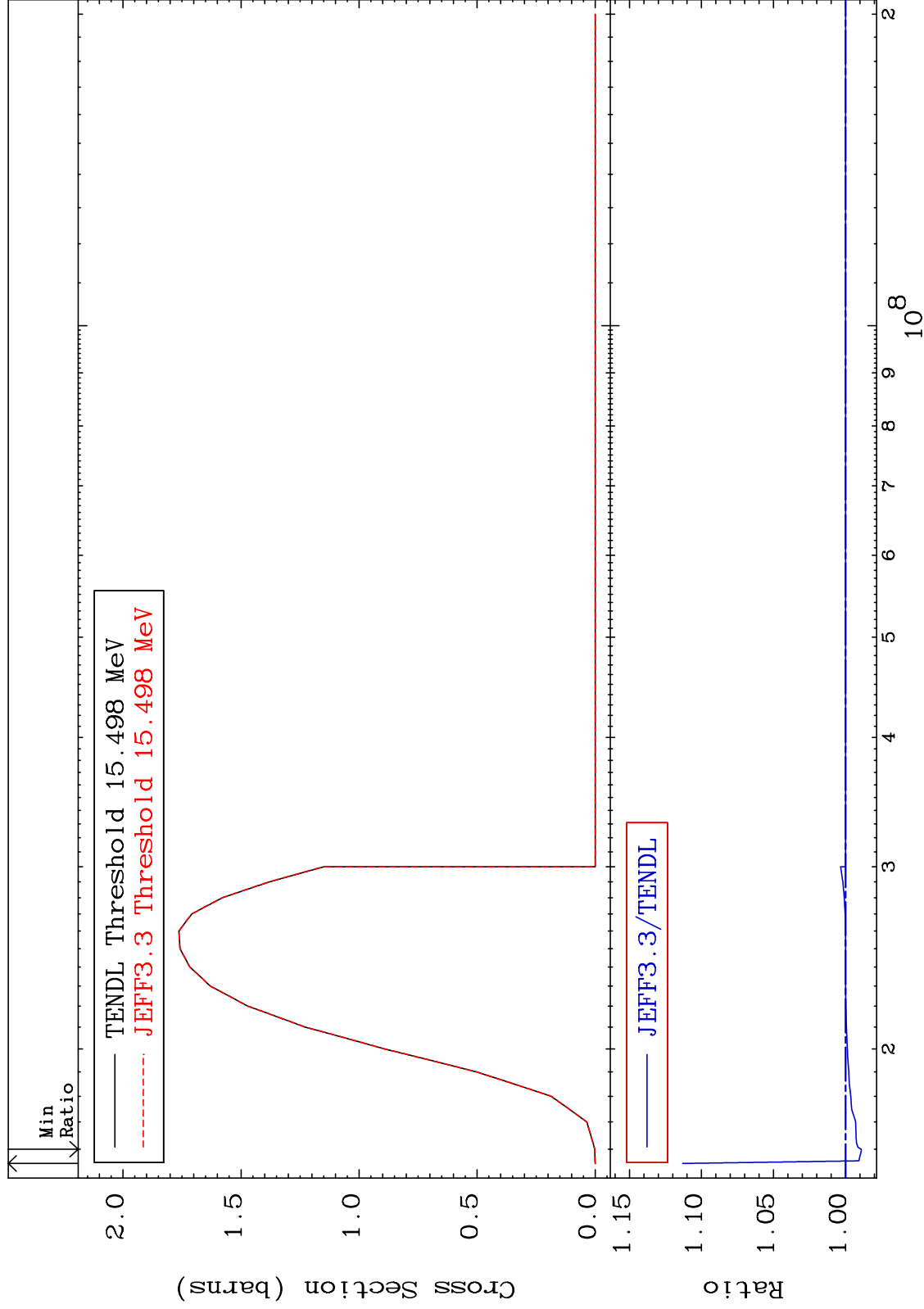
MAT 8431

(n,3n)

84-Po-208

Cross Section

-1.091 To 11.31 %



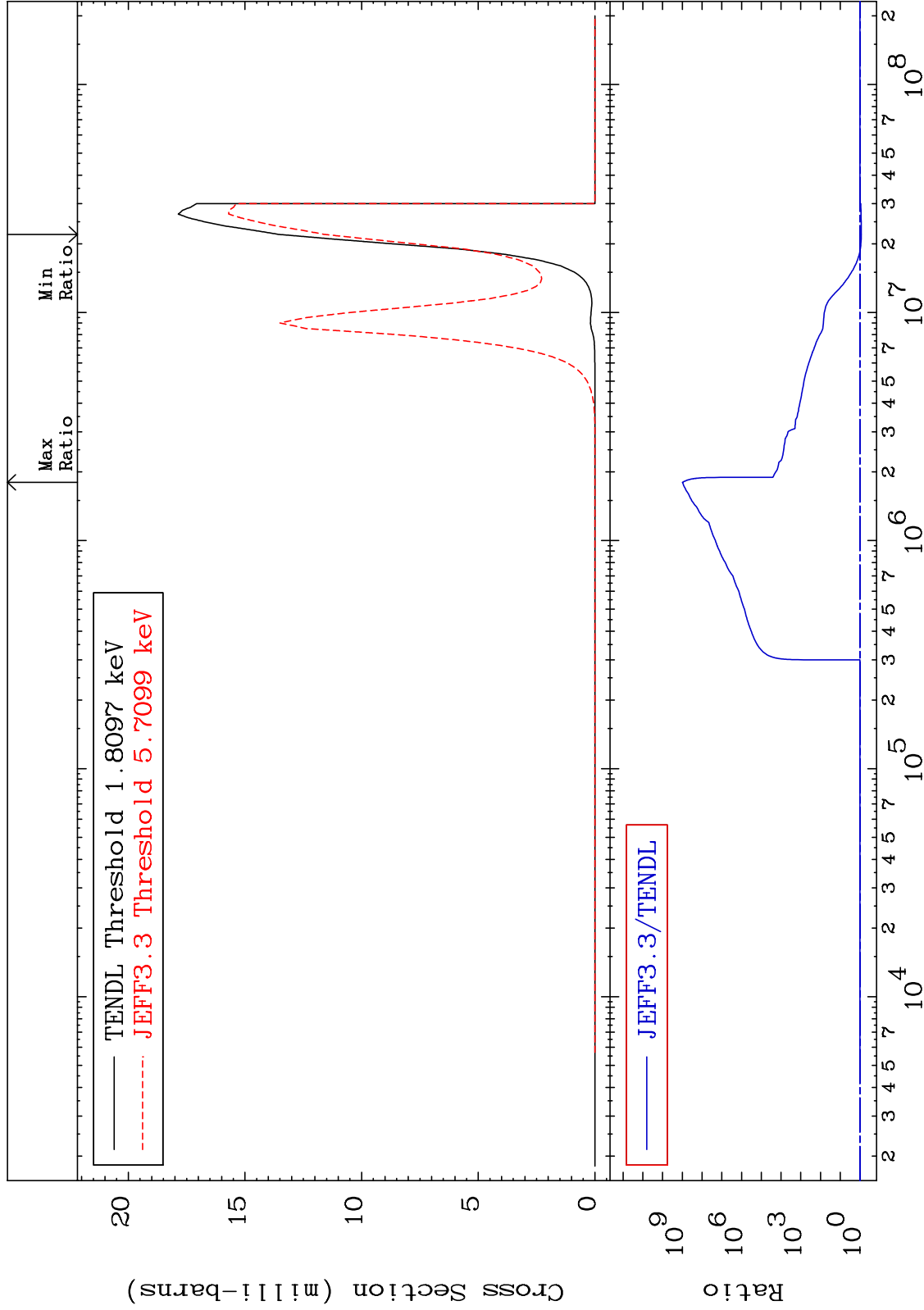
MAT 8431

(n, n') α

84-Po-208

-14.44 To 9999. %

Cross Section



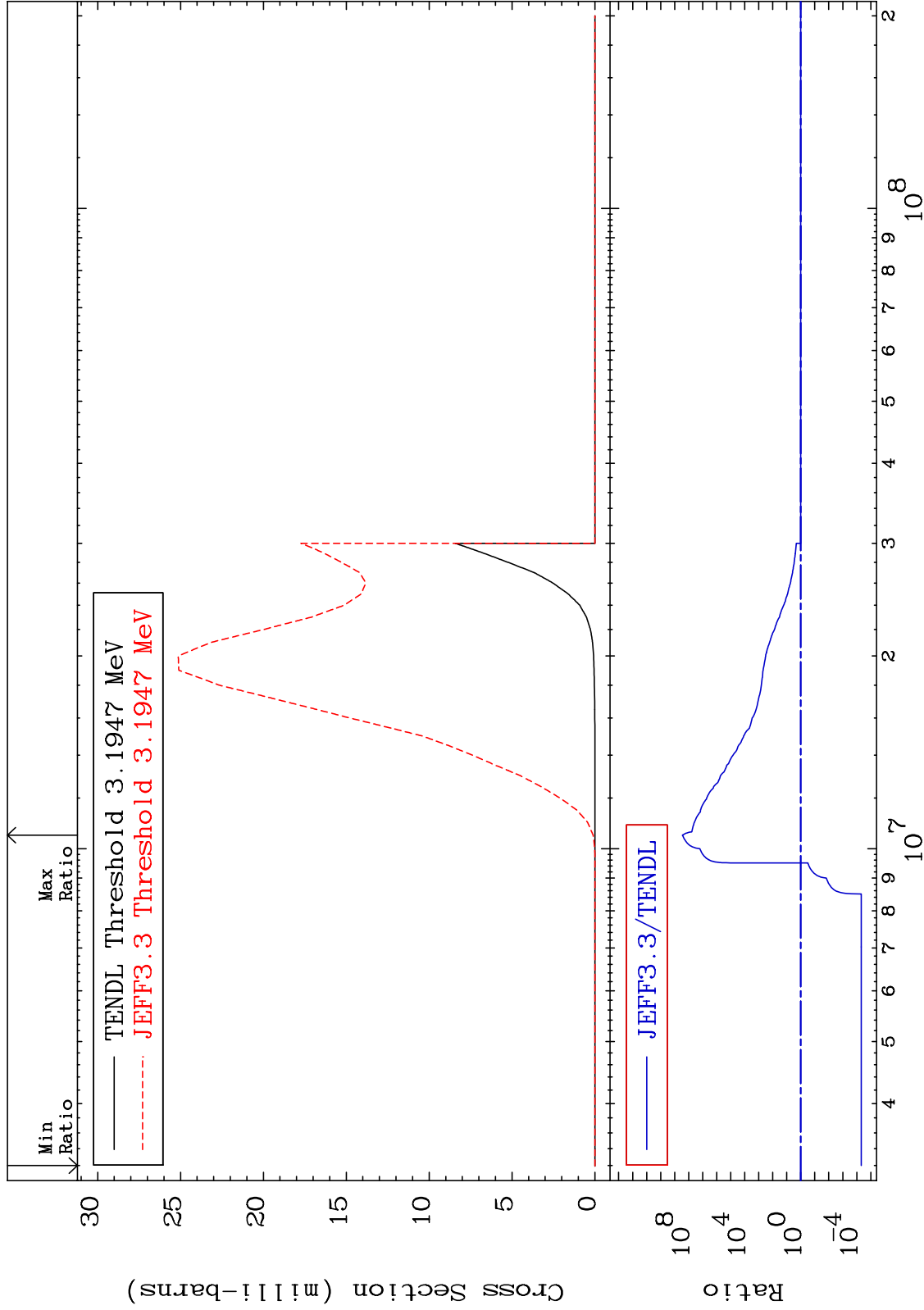
MAT 8431

(n,2n) α

84-Po-208

-100.0 To 9999. %

Cross Section



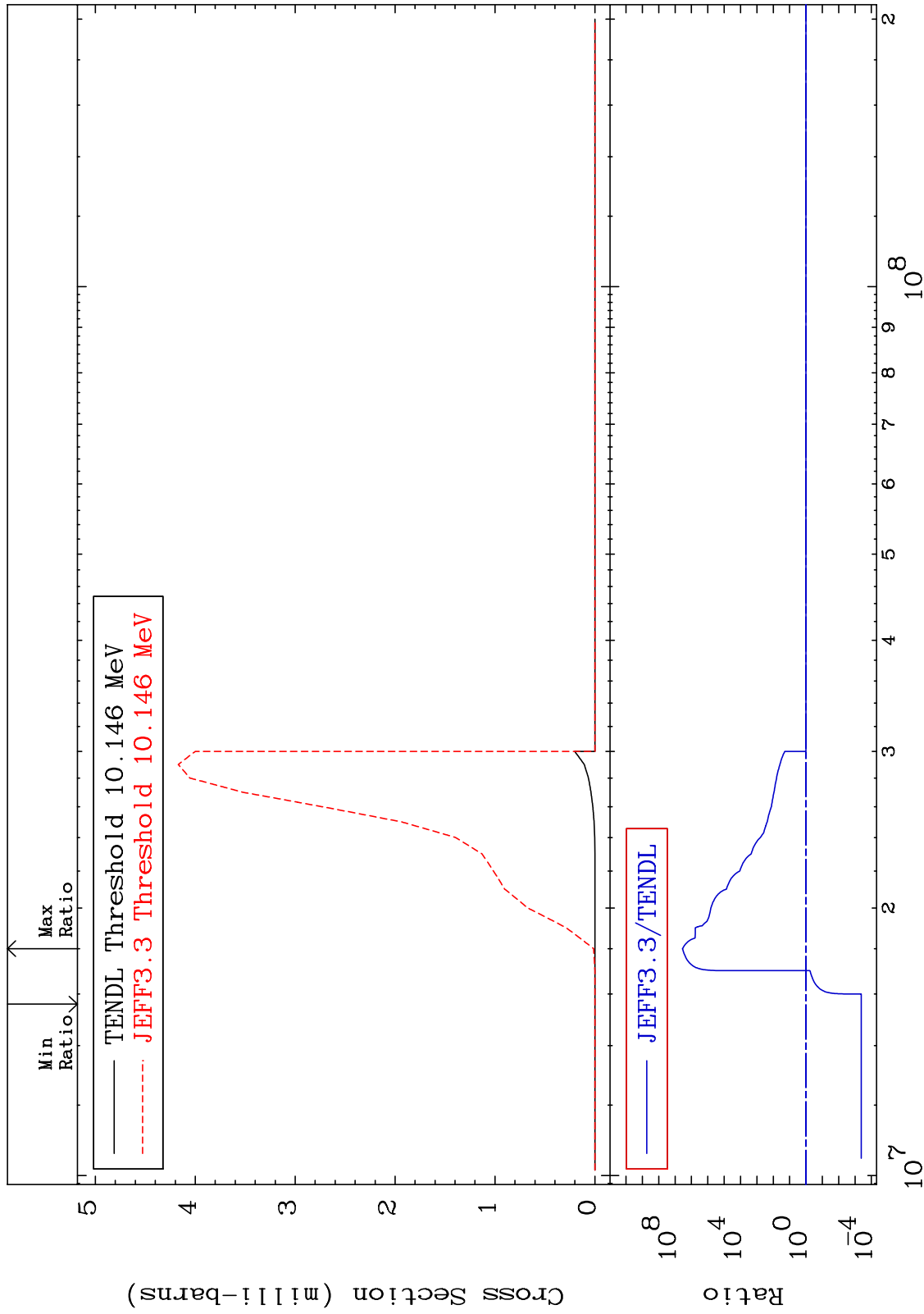
MAT 8431

(n,3n) α

84-Po-208

Cross Section

-99.96 To 9999. %



84-Po-208

84-Po-208

MAT 8431

(n,n') p

84-Po-208

-8.367 To 0.000 %

Cross Section

Min Ratio

Max Ratio

TENDL Threshold 4.7268 MeV
JEFF3.3 Threshold 4.7268 MeV

Cross Section (milli-barns)

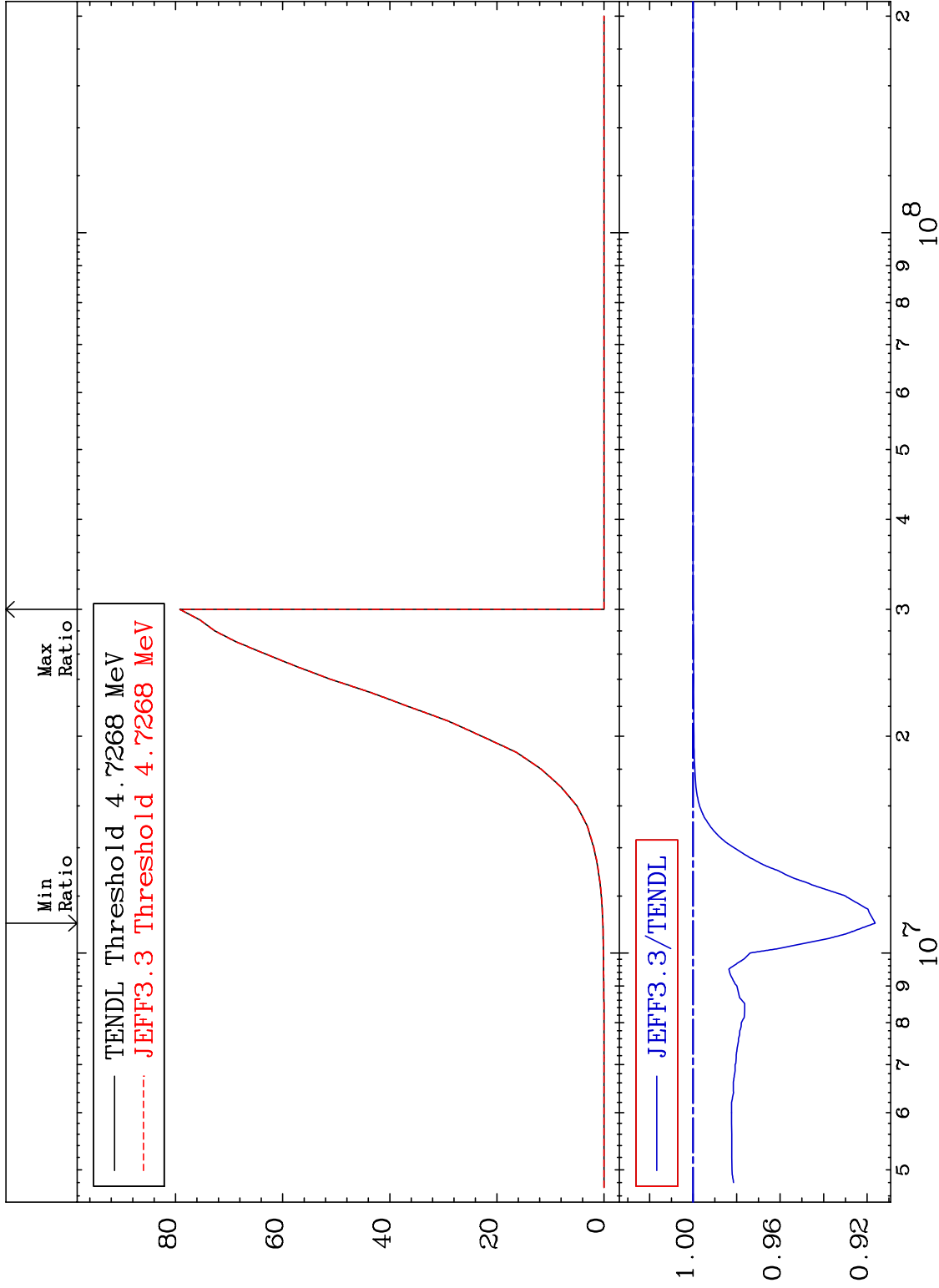
JEFF3.3/TENDL

Ratio

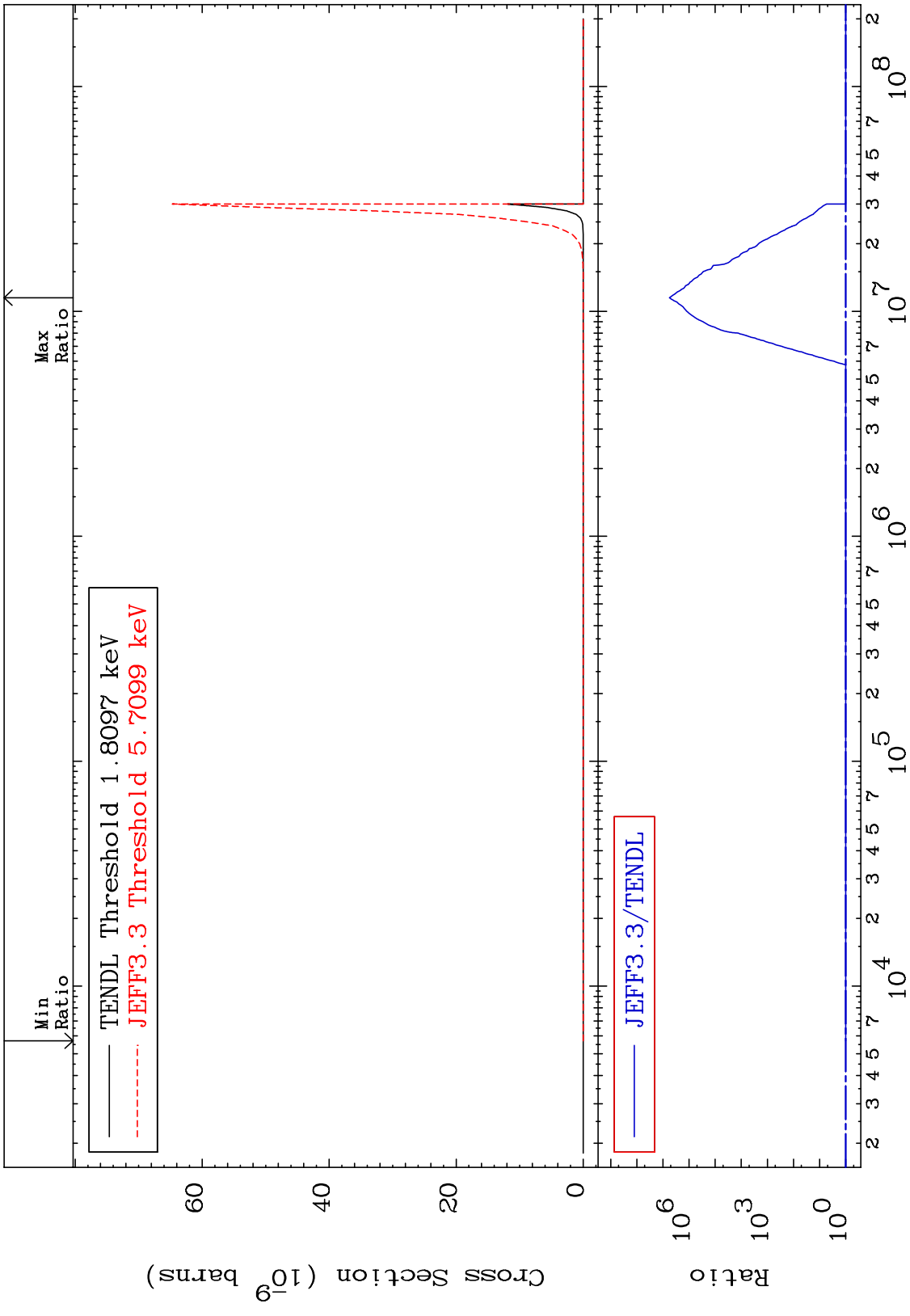
11

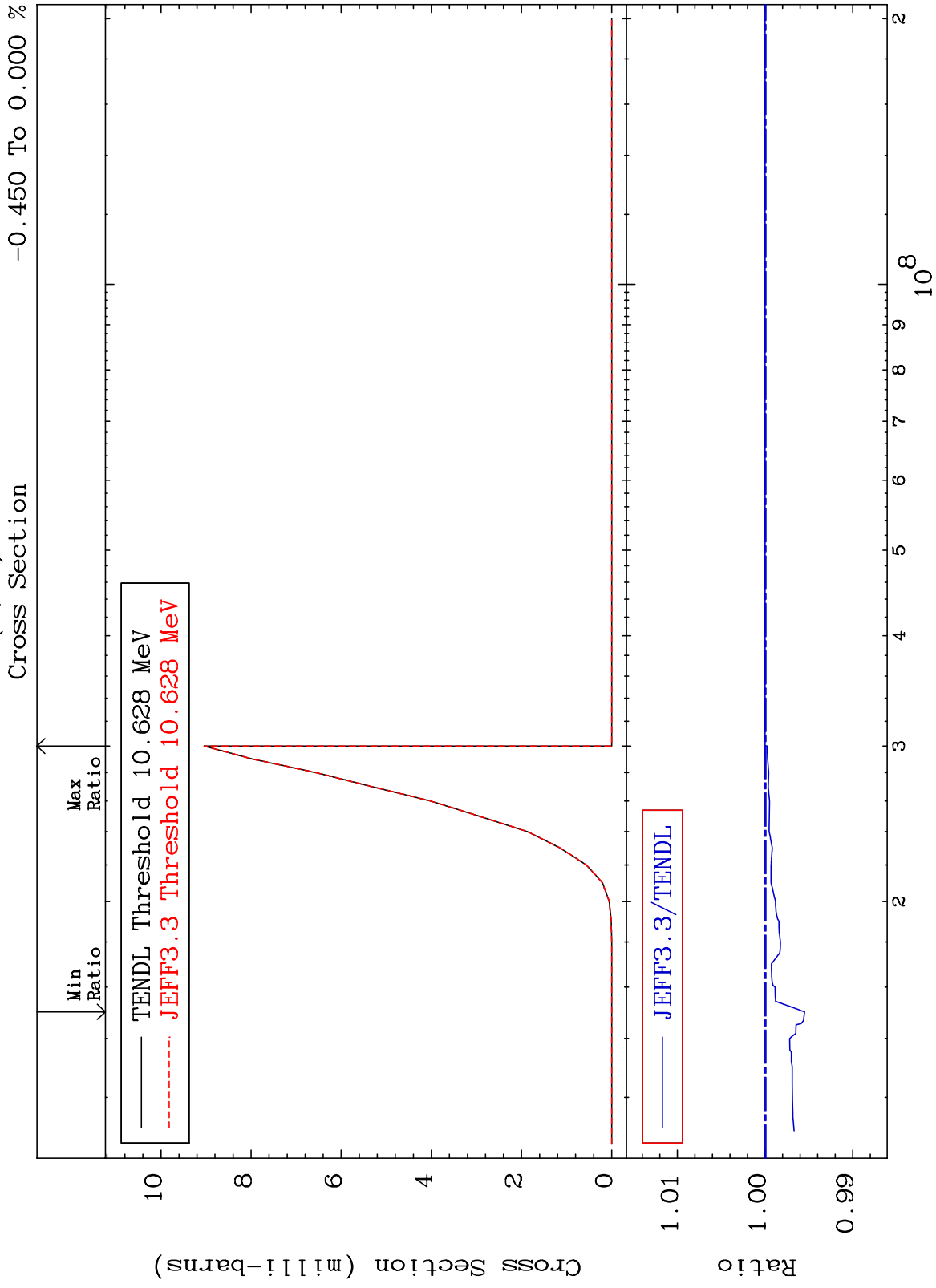
Incident Energy (eV)

84-Po-208

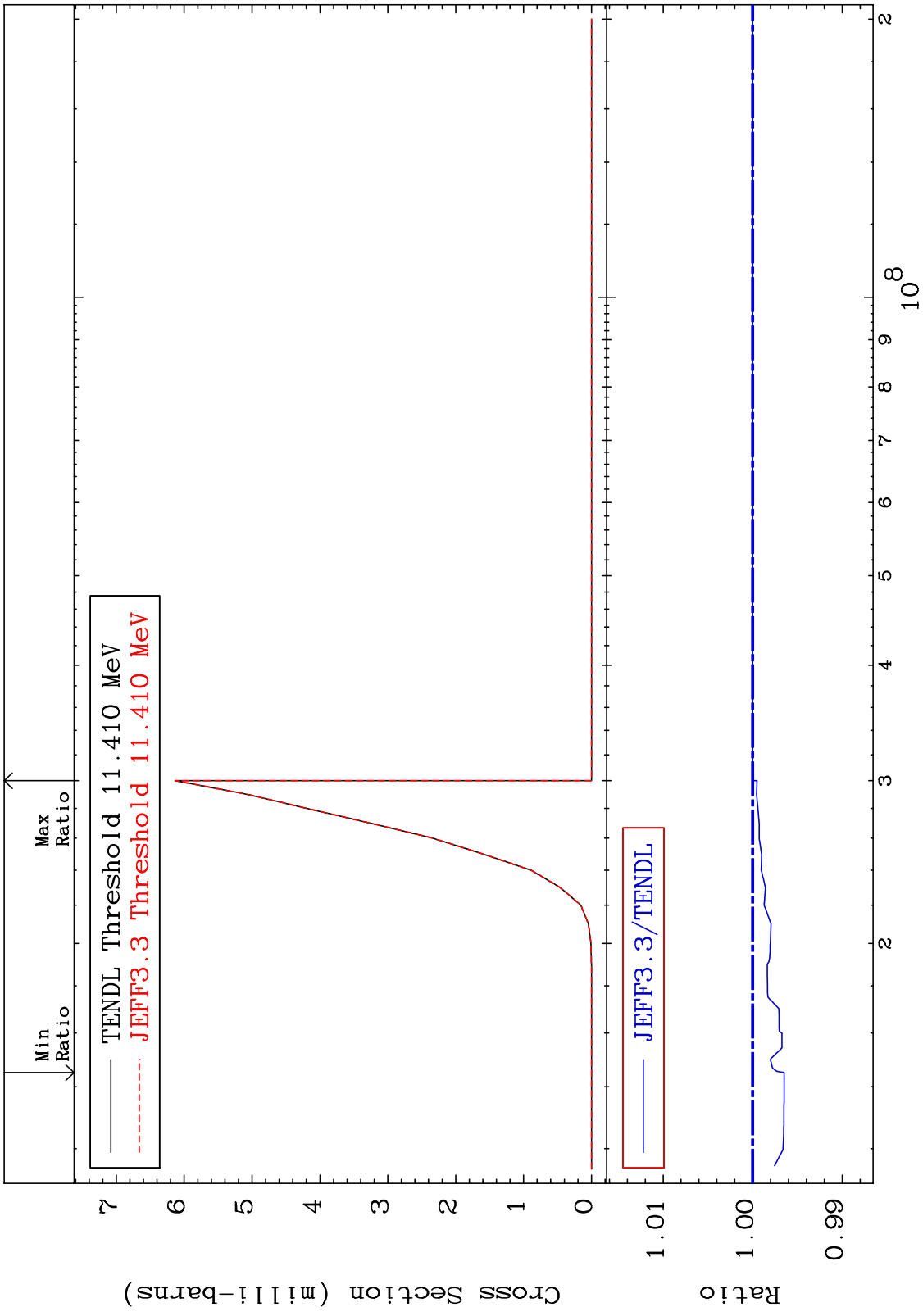


MAT 8431 (n,n') 2α Cross Section 84-Po-208 To 9999. %





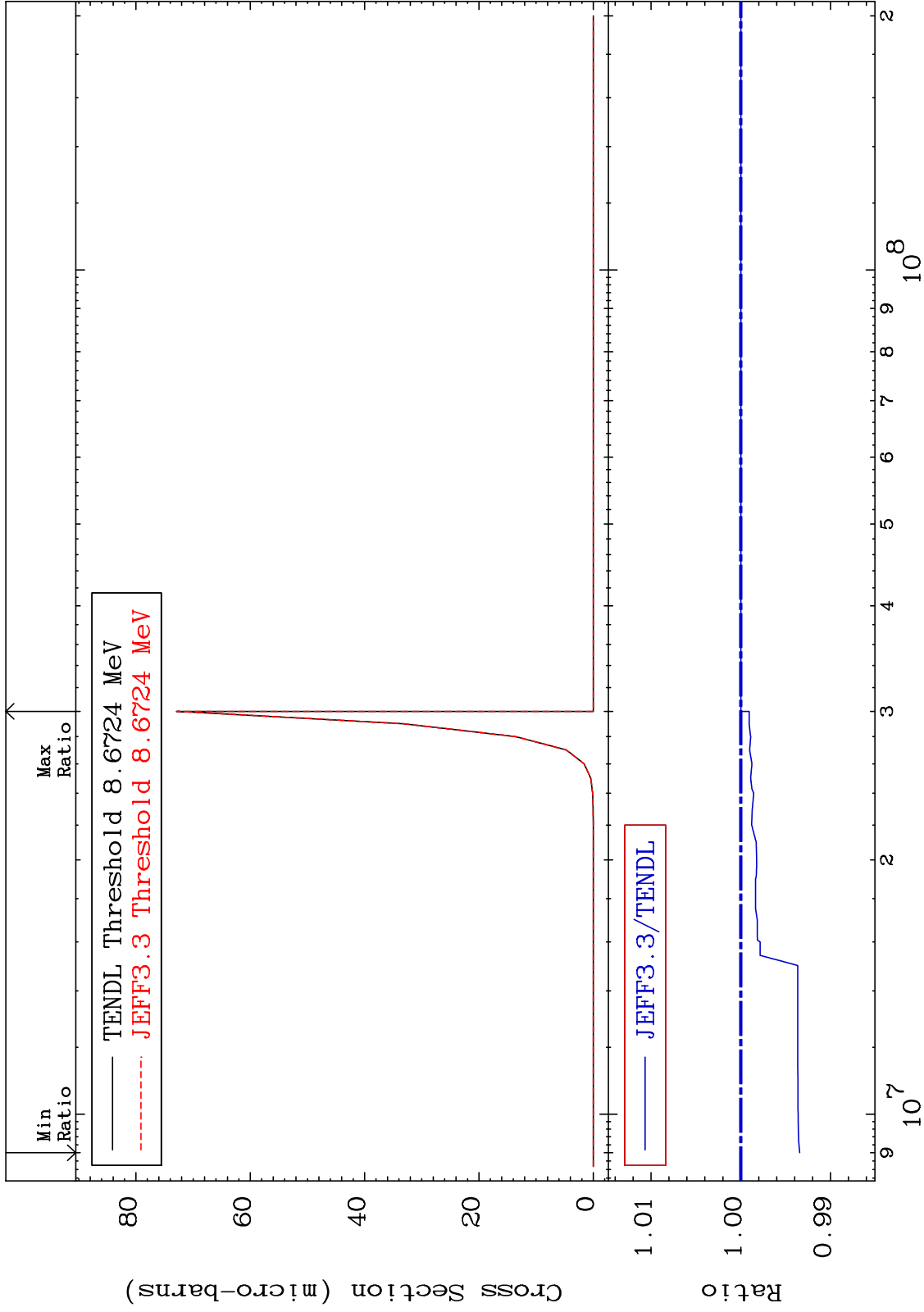
MAT 8431 (n,n') t 84-Po-208
 Cross Section -0.352 To 0.000 %



MAT 8431

(n, n') He-3
Cross Section

84-Po-208
-0.657 To 0.000 %



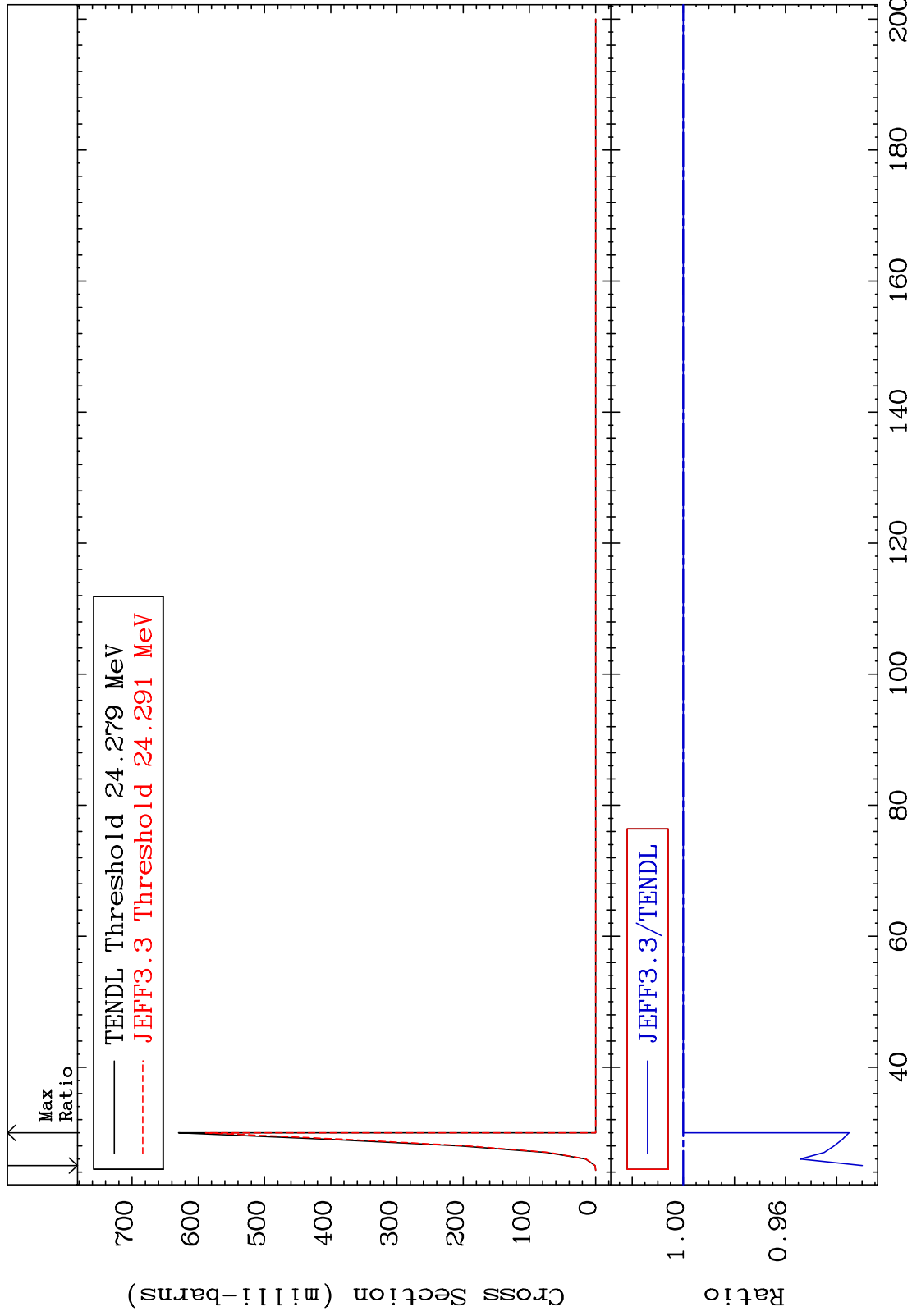
MAT 8431

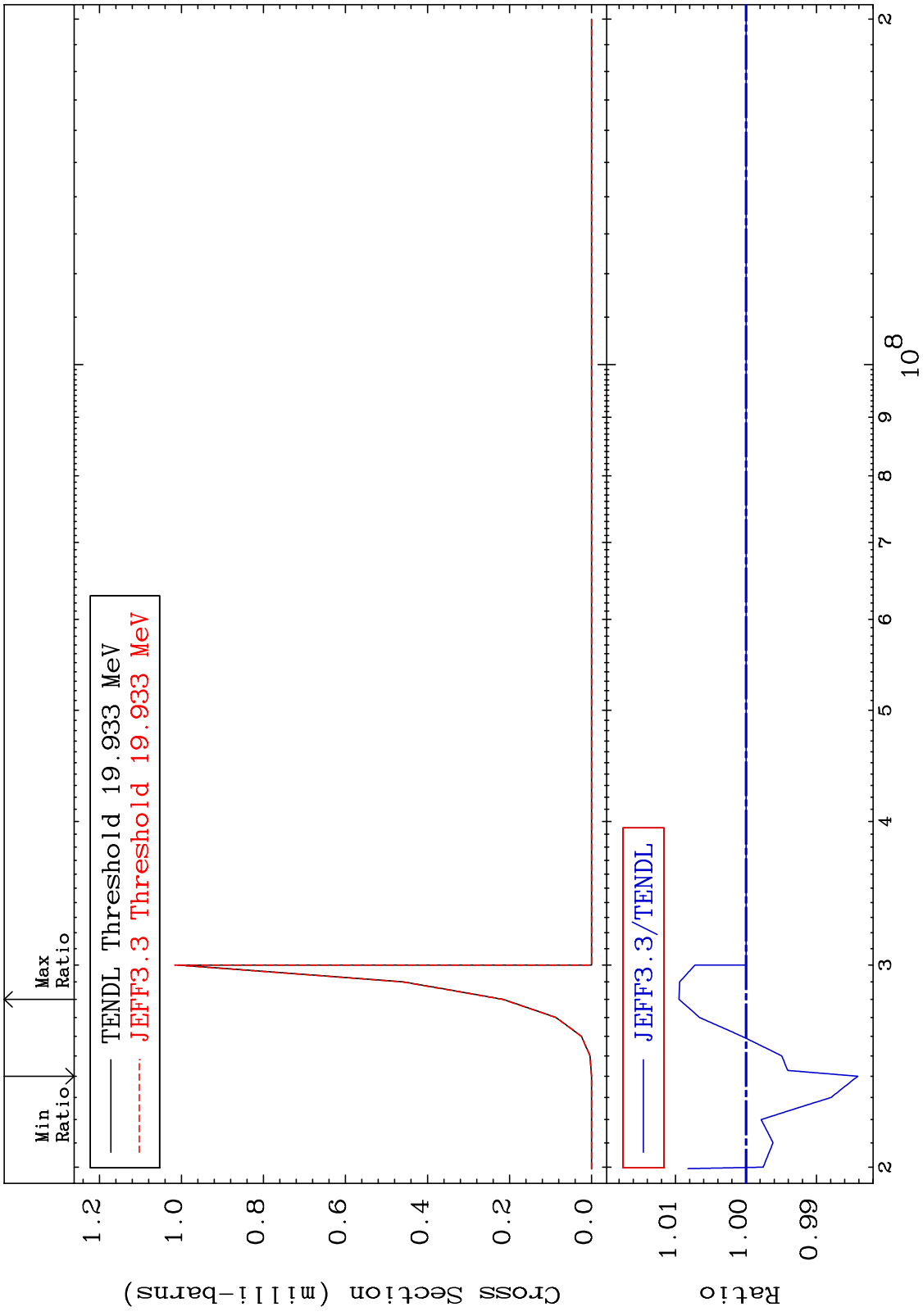
(n,4n)

84-Po-208

Cross Section

-7.007 To 0.000 %





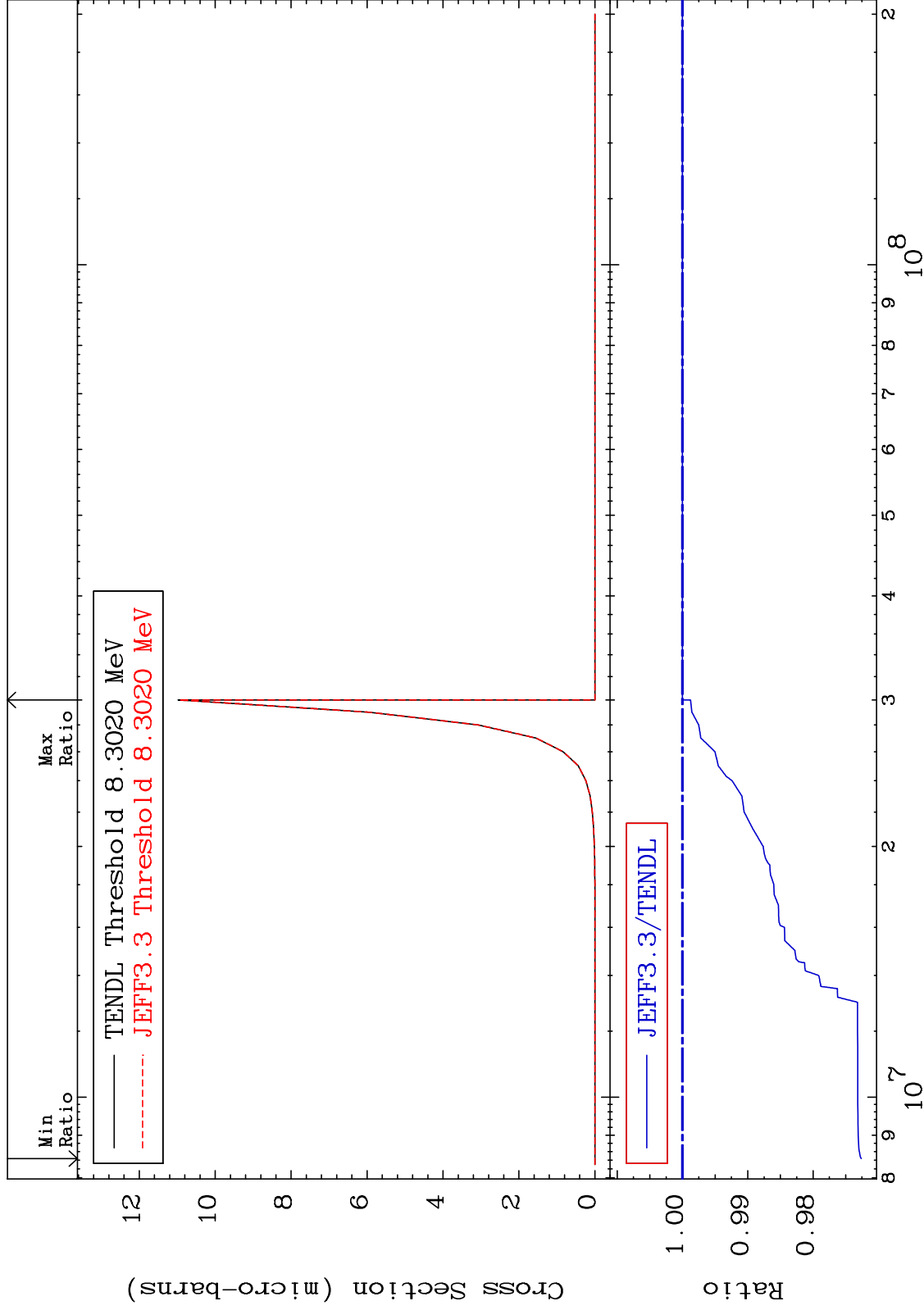
MAT 8431

(n,2n) p

84-Po-208

Cross Section

-2.739 To 0.000 %



19

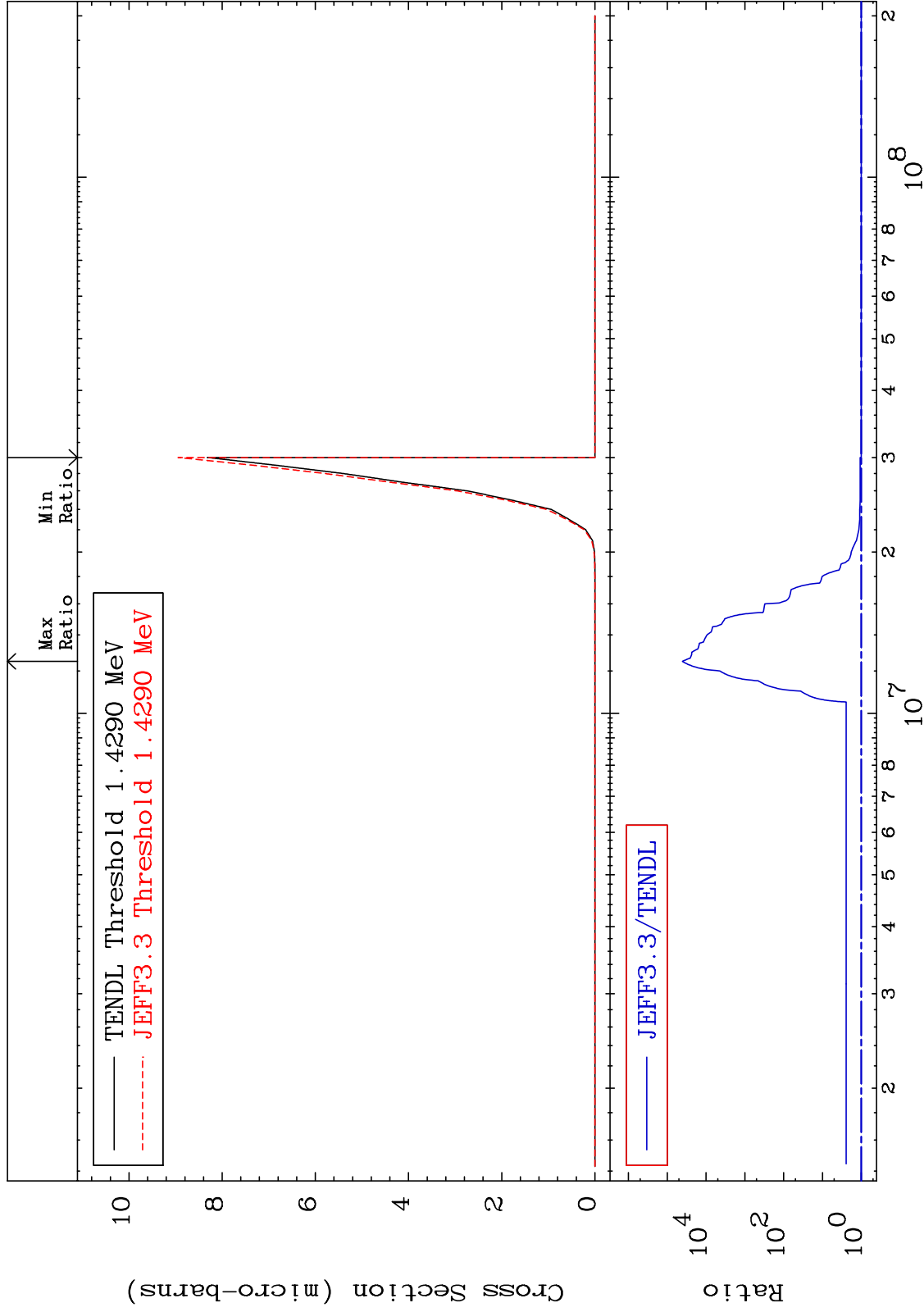
Incident Energy (eV)

84-Po-208

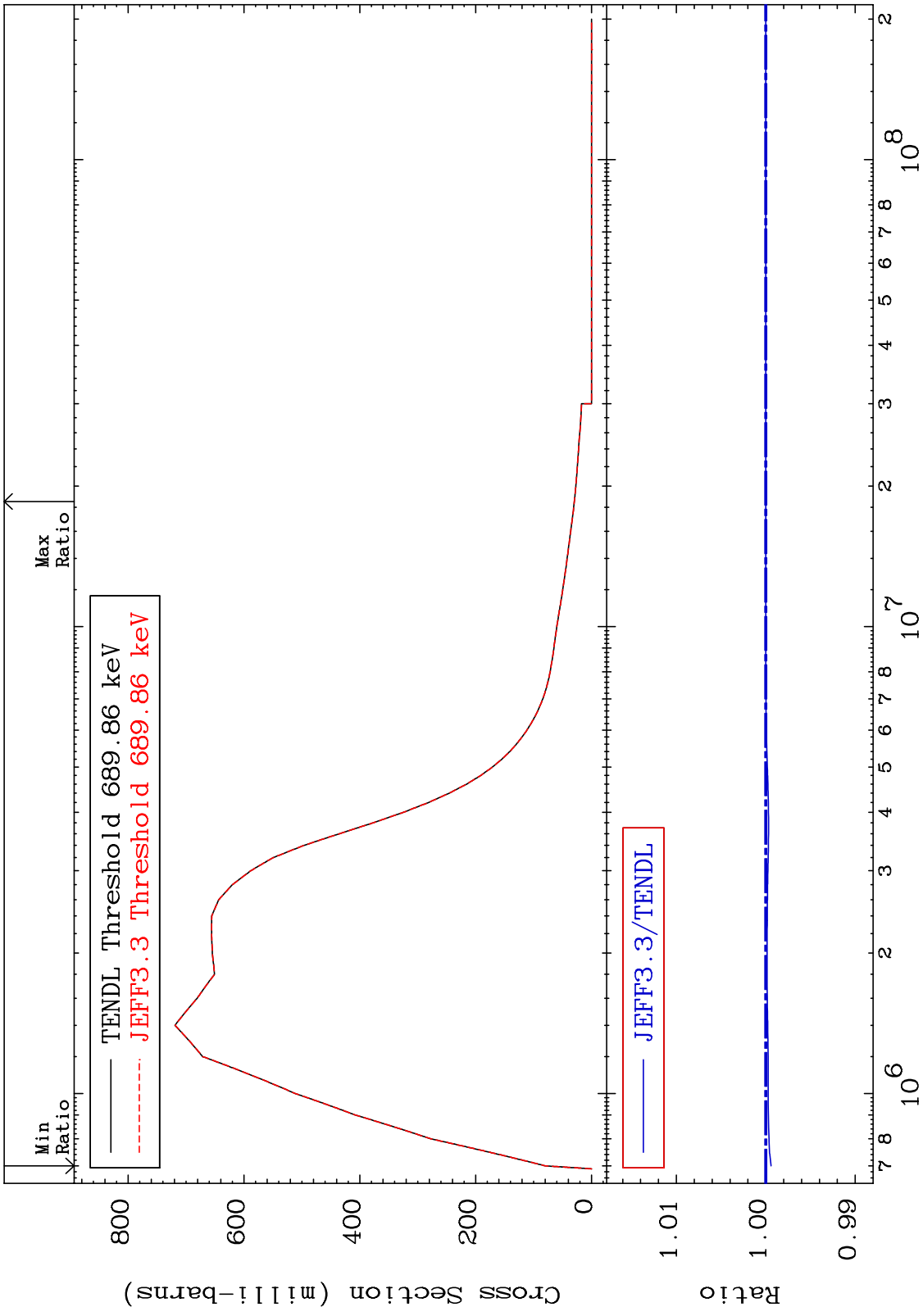
MAT 8431

(n,n') p α
Cross Section

84-Po-208
0.000 To 9999. %



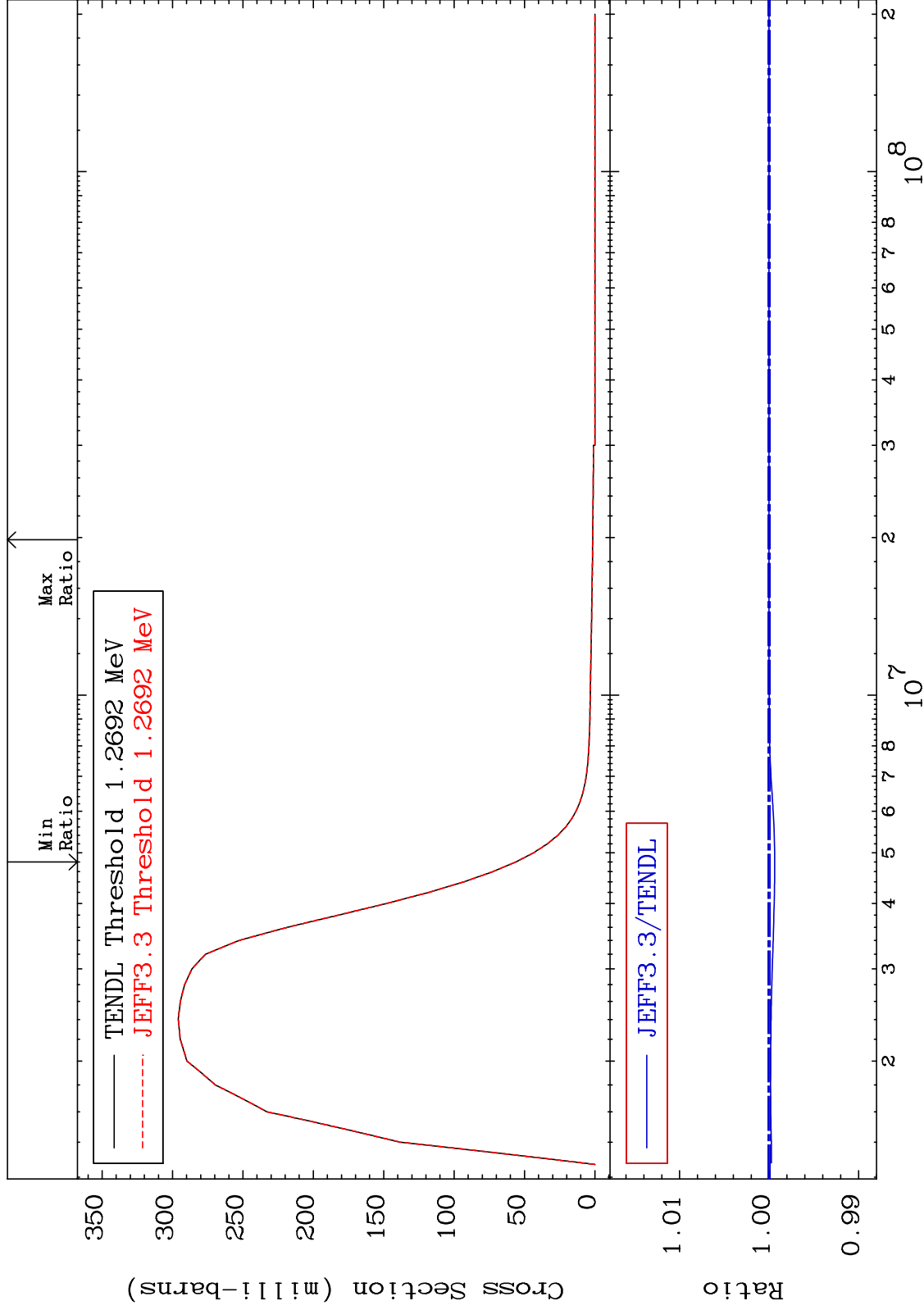
MAT 8431 MT= 51 (n,n') Level Cross Section -0.059 To 0.000 % 84-Po-208



MAT 8431

MT= 52 (n,n') Level
Cross Section

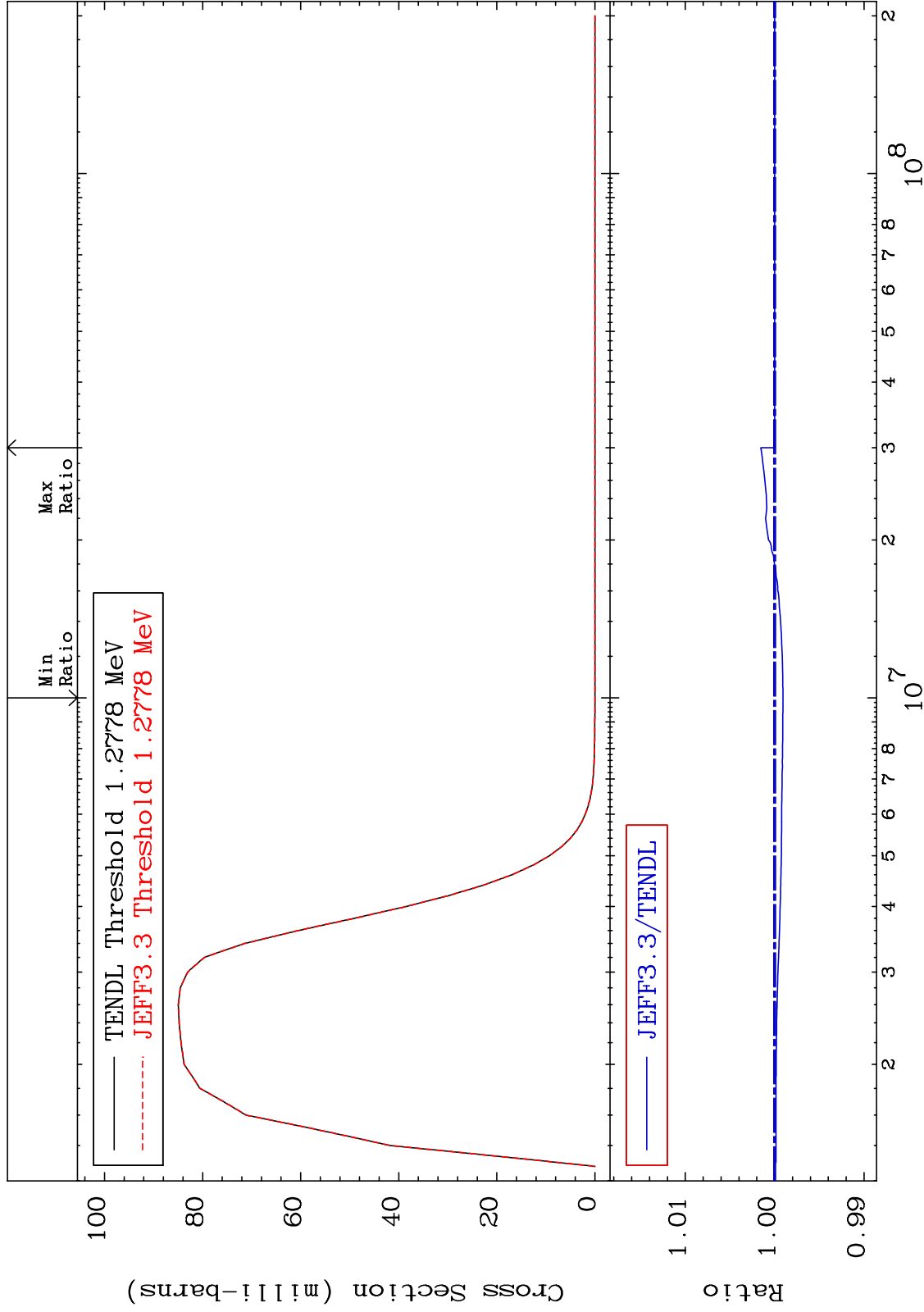
84-Po-208
-0.063 To 0.000 %



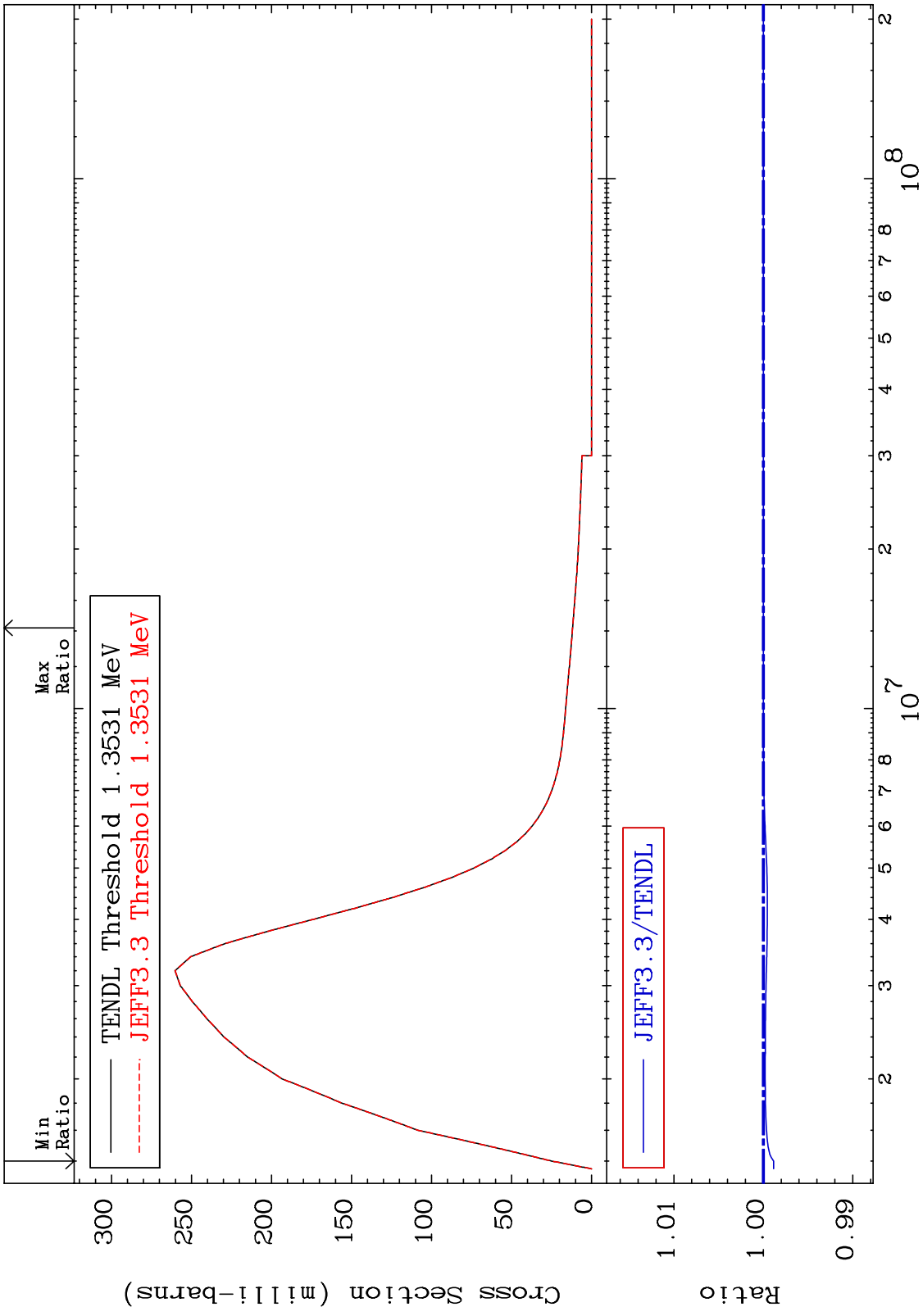
MAT 8431

MT= 53 (n,n') Level
Cross Section

84-Po-208
-0.092 To 0.155 %



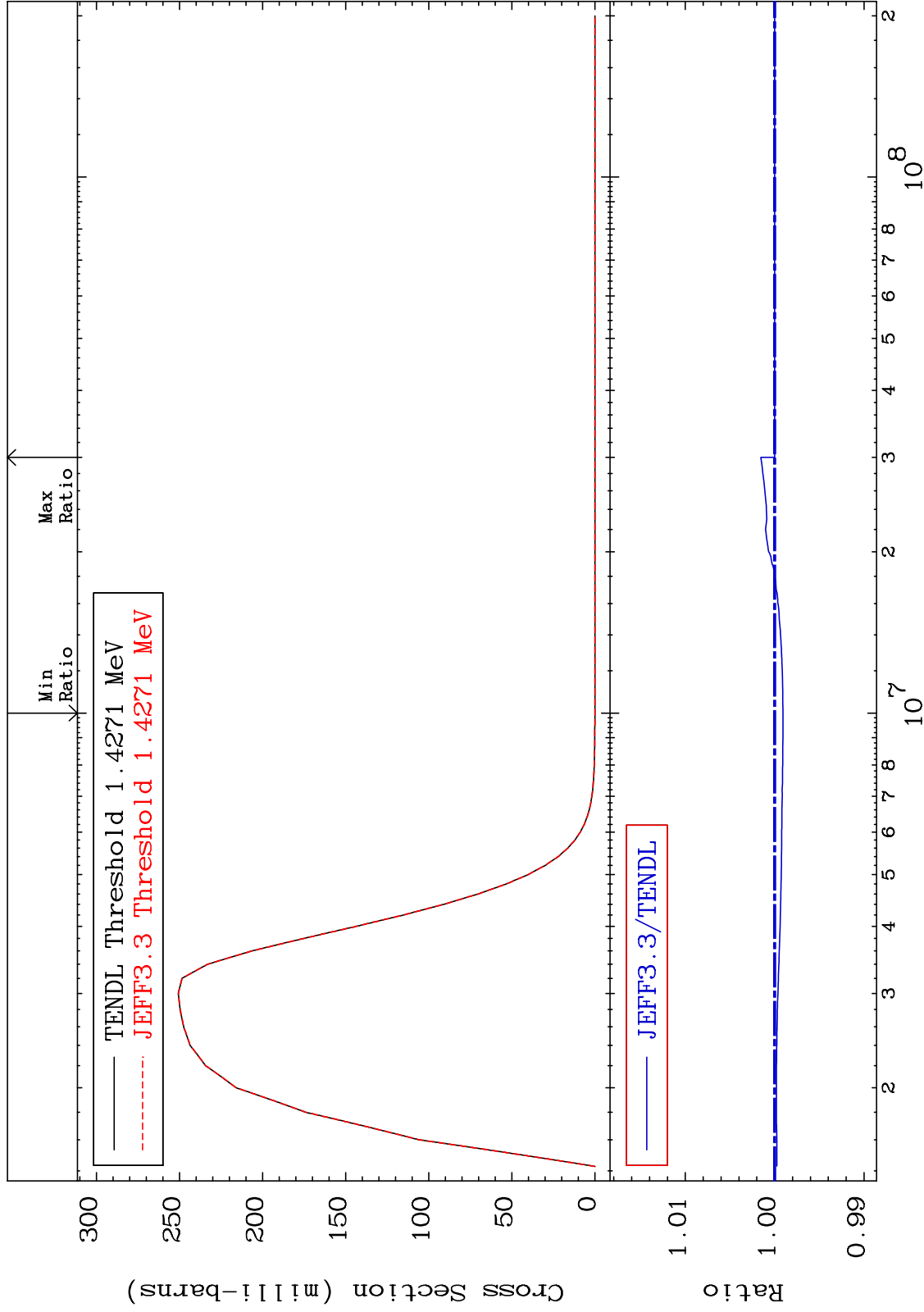
MAT 8431 MT= 54 (n,n') Level Cross Section 84-Po-208 -0.115 To 0.000 %



MAT 8431

MT= 55 (n,n') Level
Cross Section

84-Po-208
-0.092 To 0.155 %

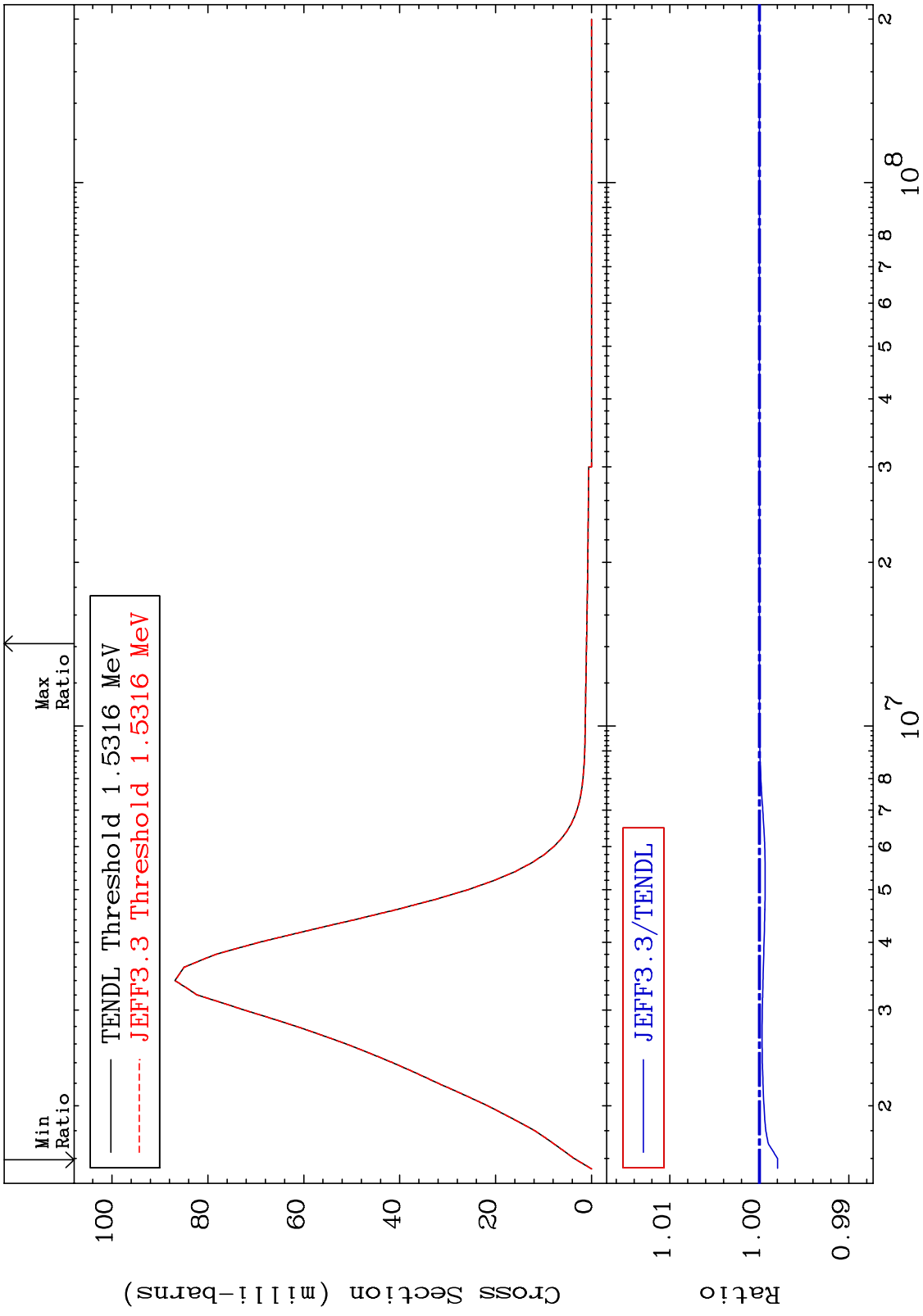


25

Incident Energy (eV)

84-Po-208

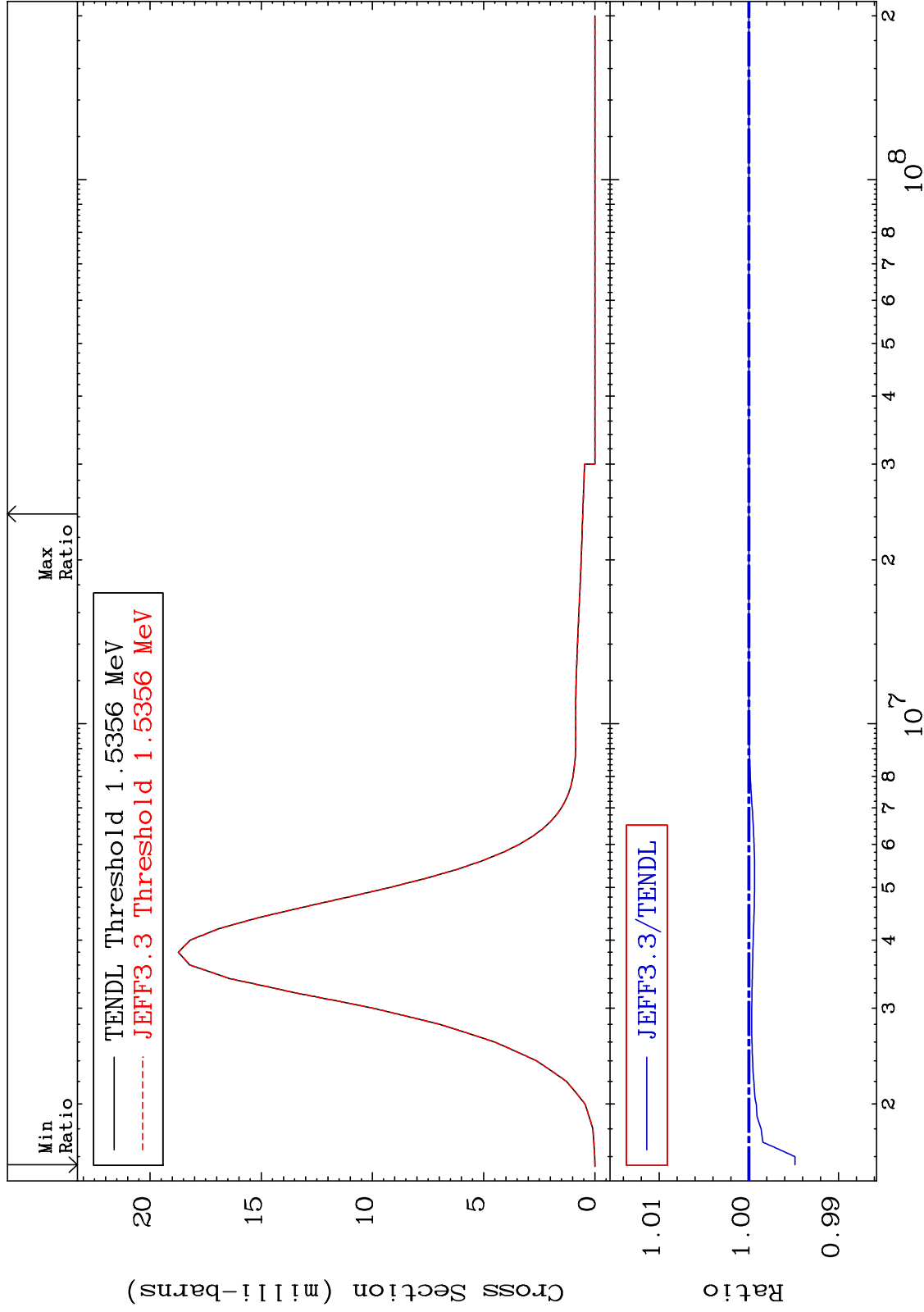
MAT 8431 MT= 56 (n,n') Level Cross Section -0.203 To 0.000 % 84-Po-208



MAT 8431

MT= 57 (n, n') Level
Cross Section

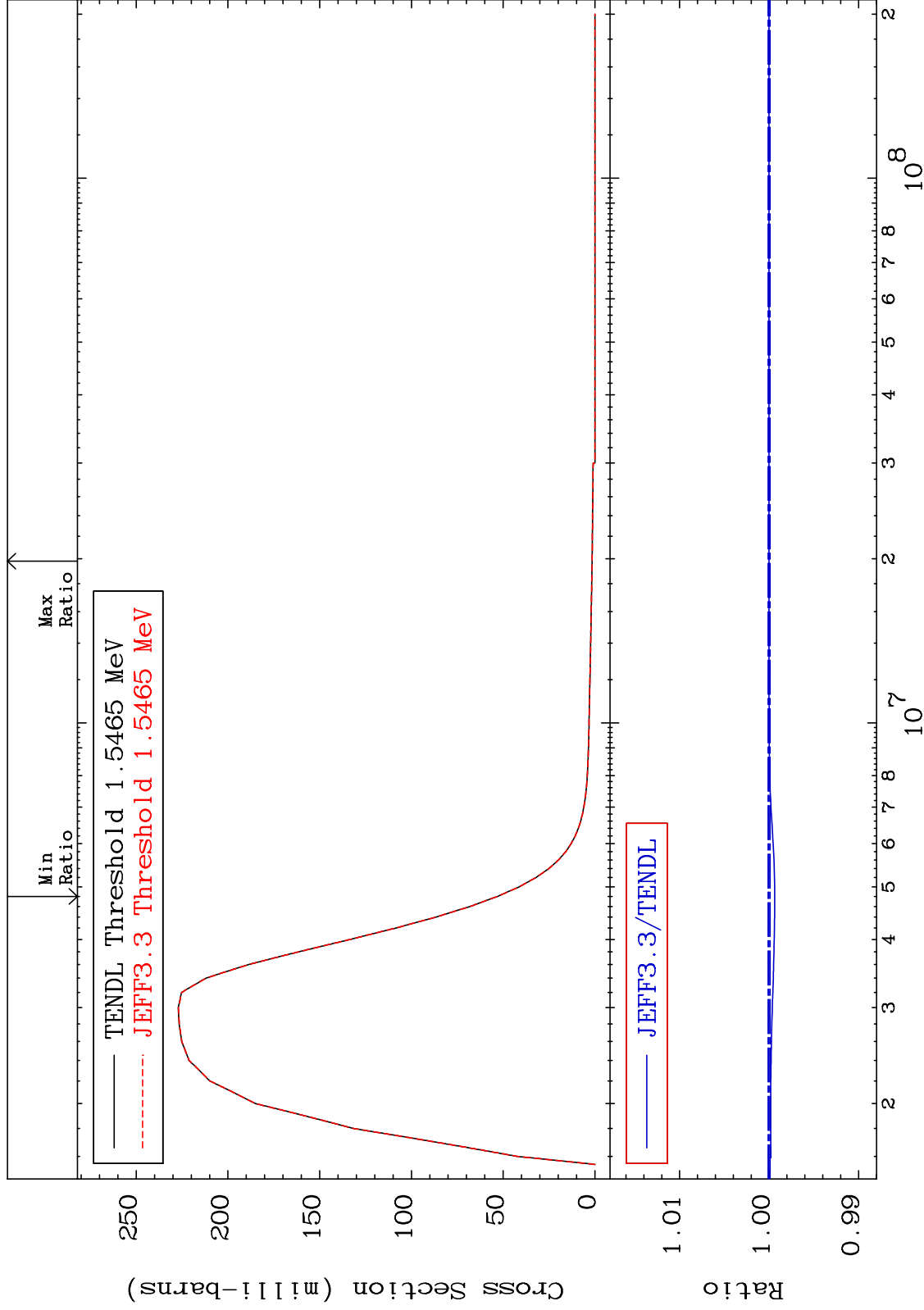
84-Po-208
-0.514 To 0.000 %



MAT 8431

MT= 58 (n,n') Level
Cross Section

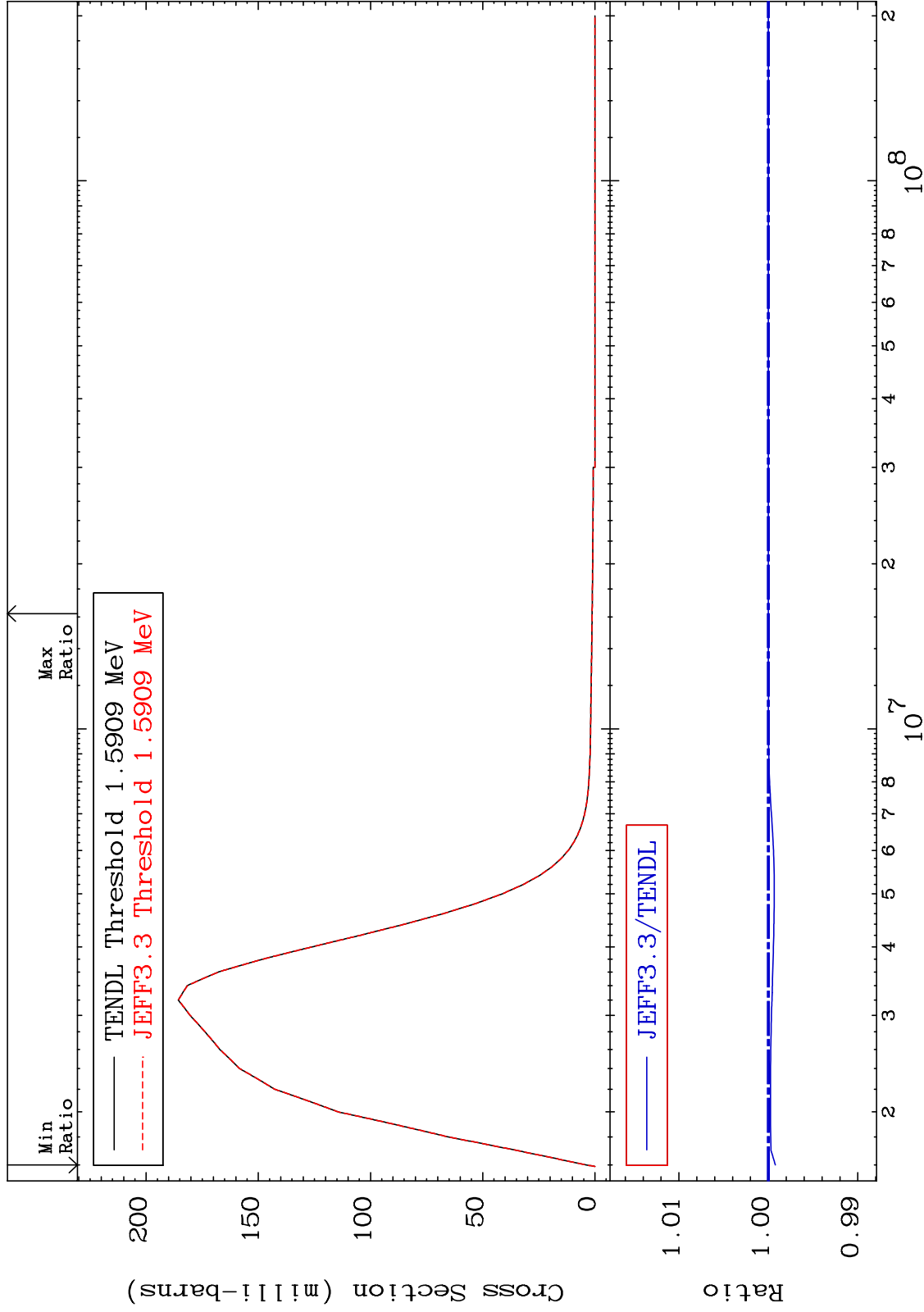
84-Po-208
-0.063 To 0.000 %



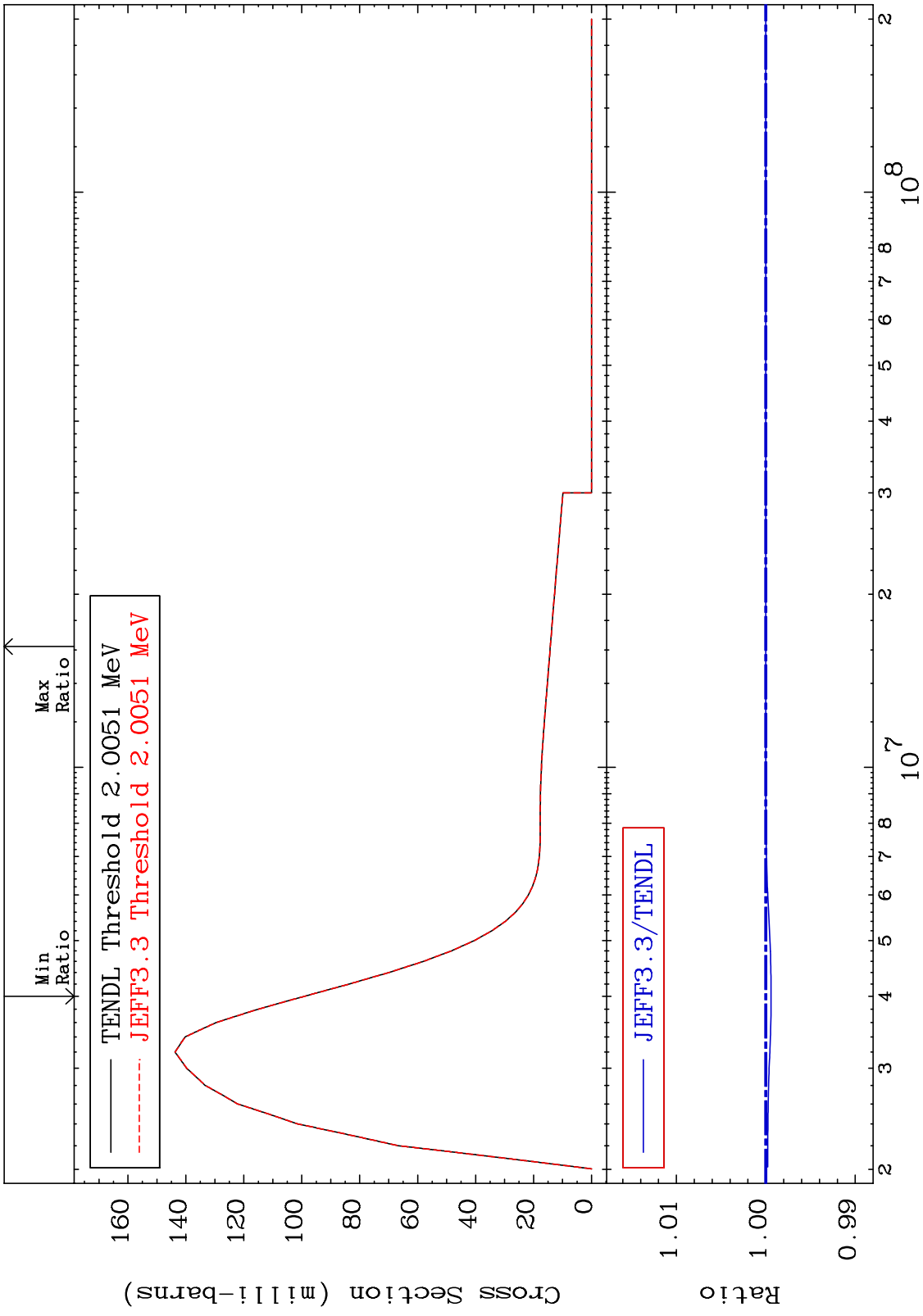
MAT 8431

MT= 59 (n,n') Level
Cross Section

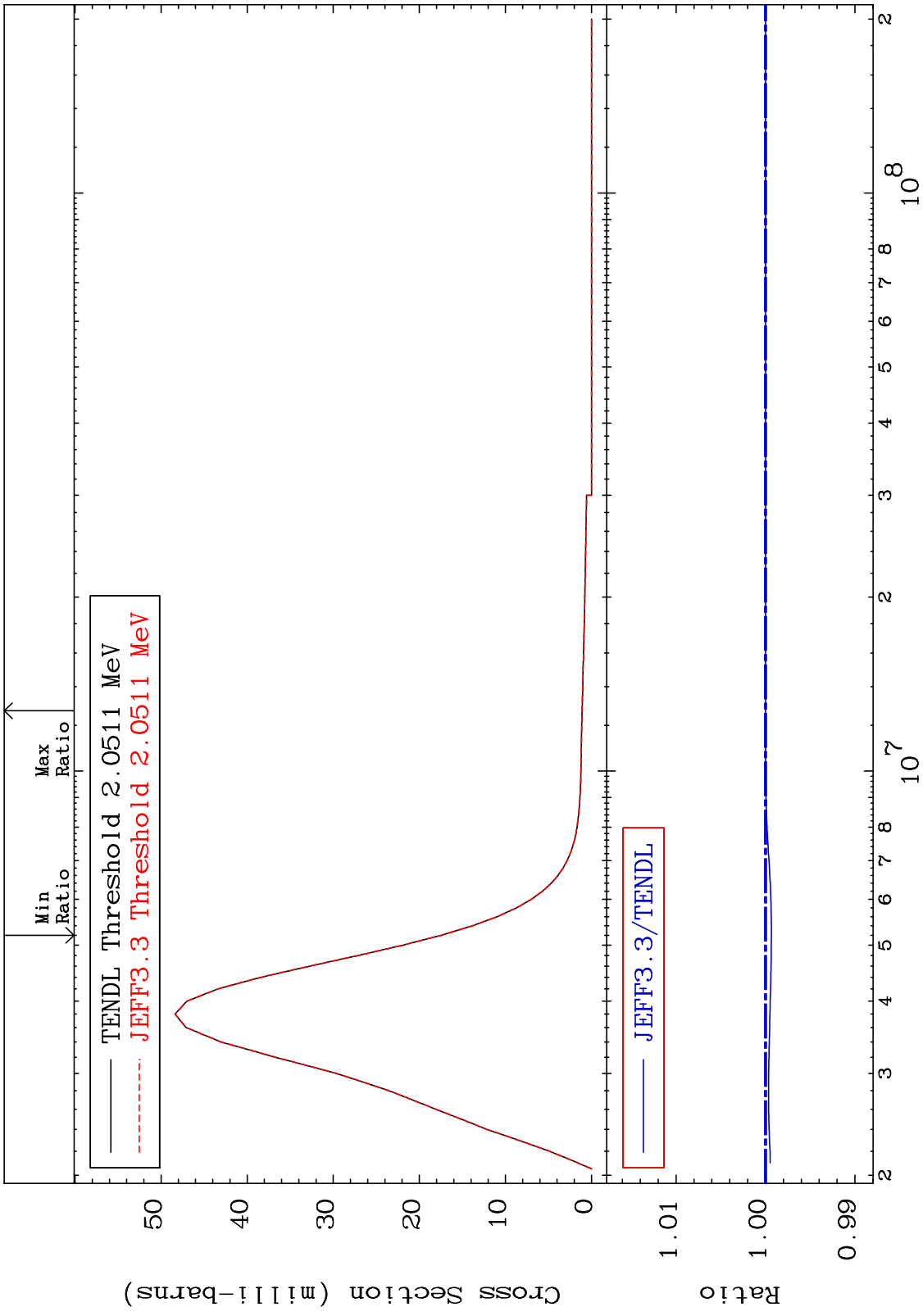
84-Po-208
-0.078 To 0.000 %



MAT 8431 MT= 60 (n,n') Level Cross Section 84-Po-208 -0.059 To 0.000 %



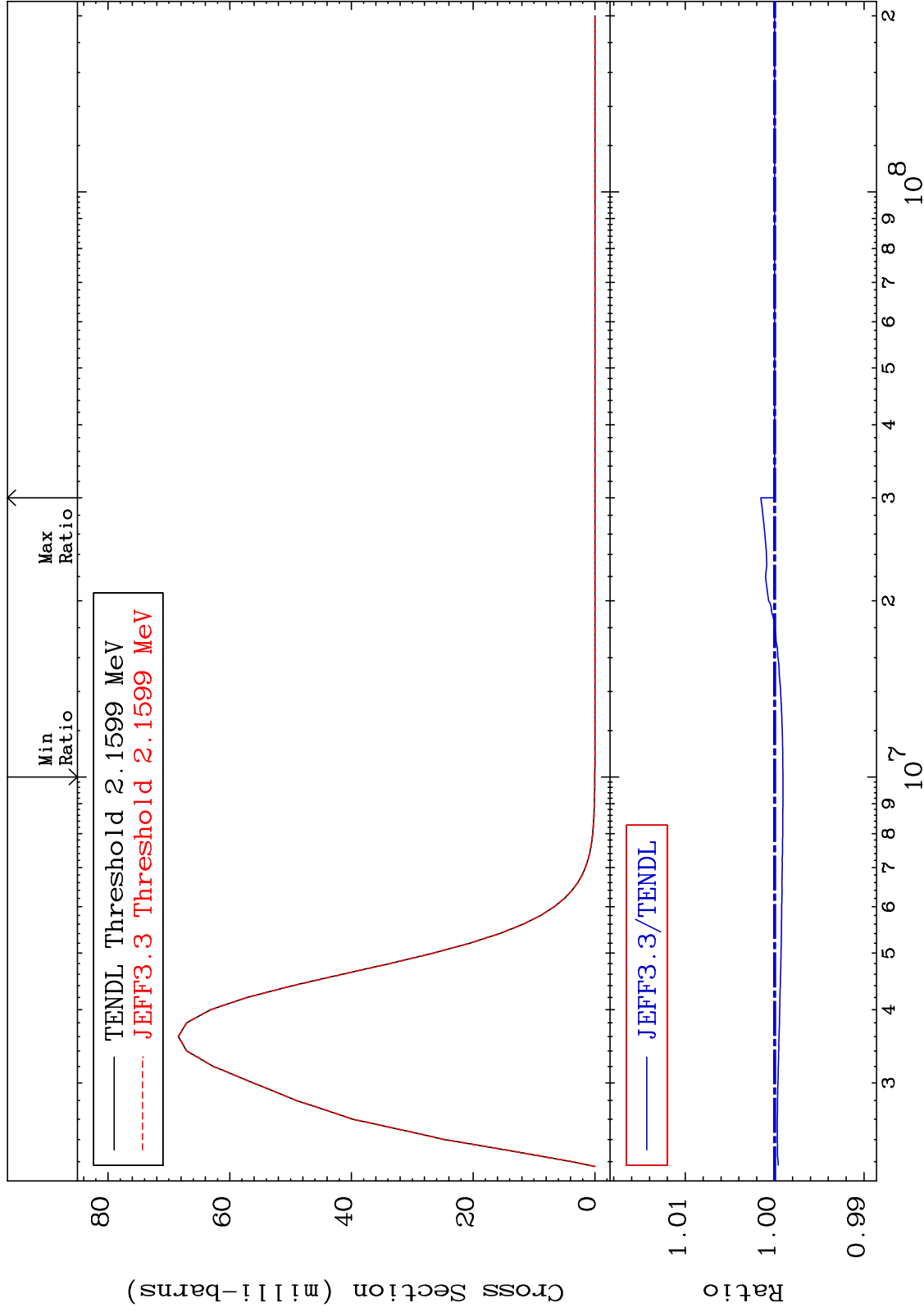
MAT 8431 MT= 61 (n,n') Level Cross Section 84-Po-208
 -0.065 To 0.000 %



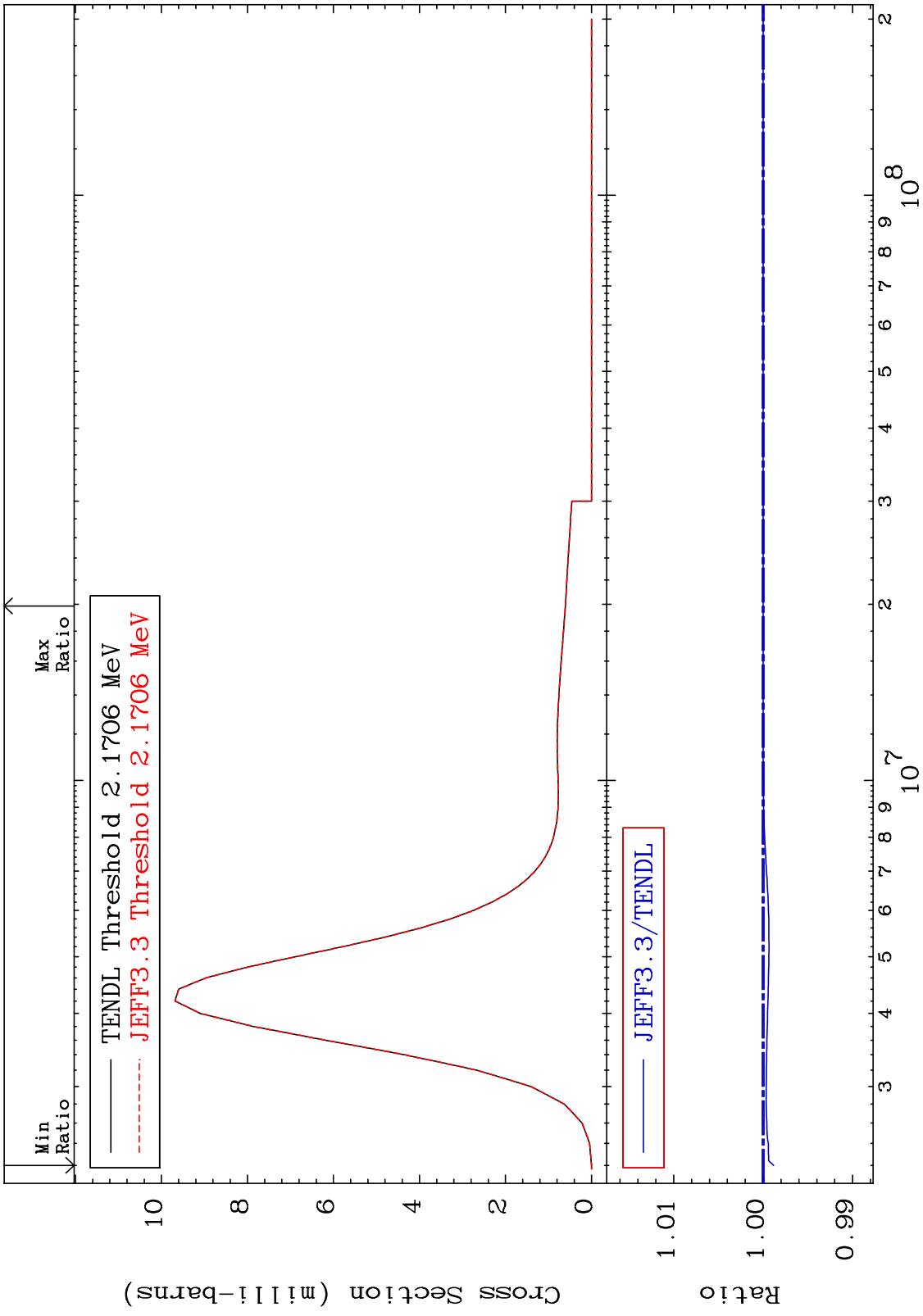
MAT 8431

MT= 62 (n,n') Level
Cross Section

84-Po-208
-0.093 To 0.155 %



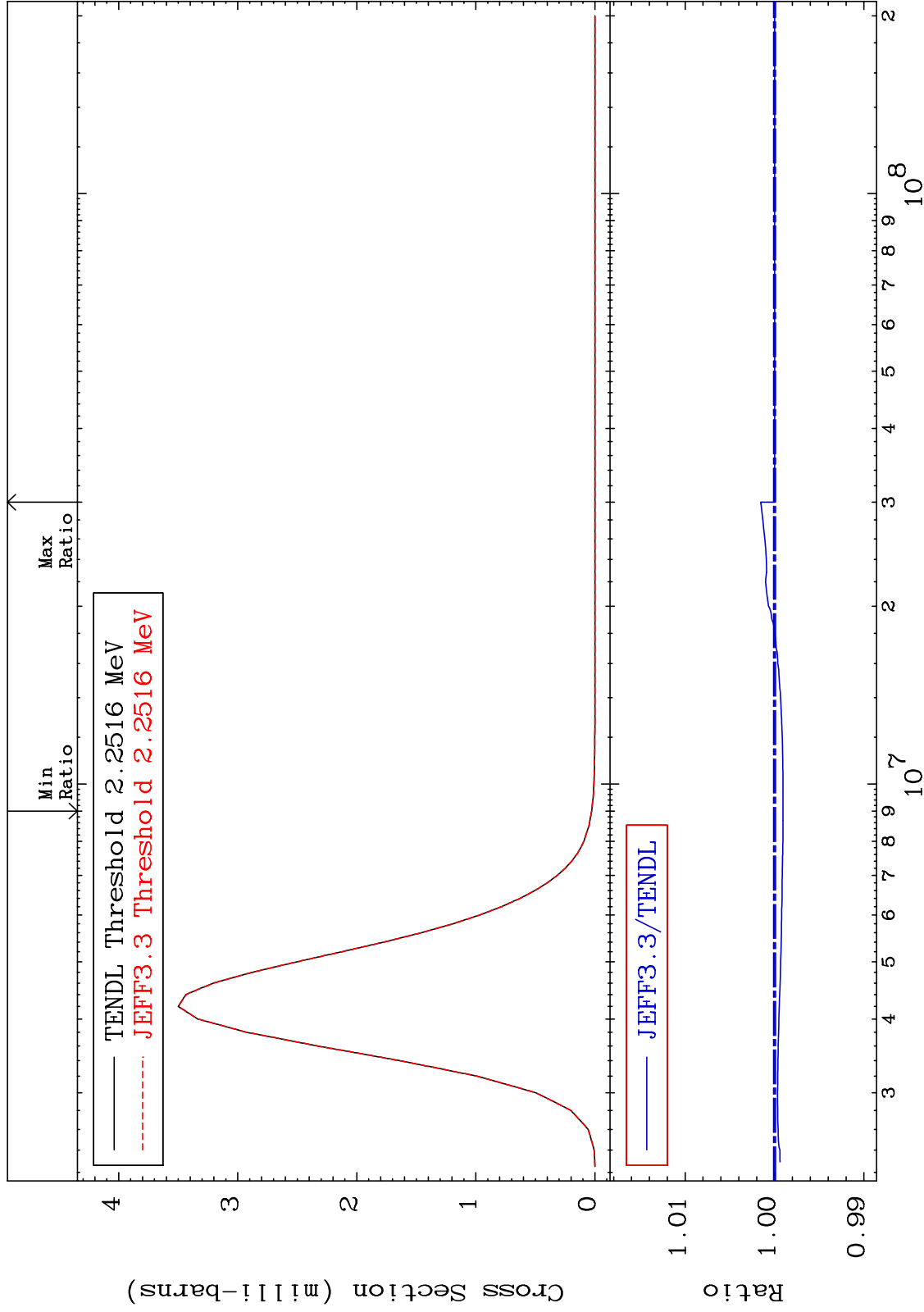
MAT 8431 MT= 63 (n,n') Level Cross Section 84-Po-208
 -0.118 To 0.000 %



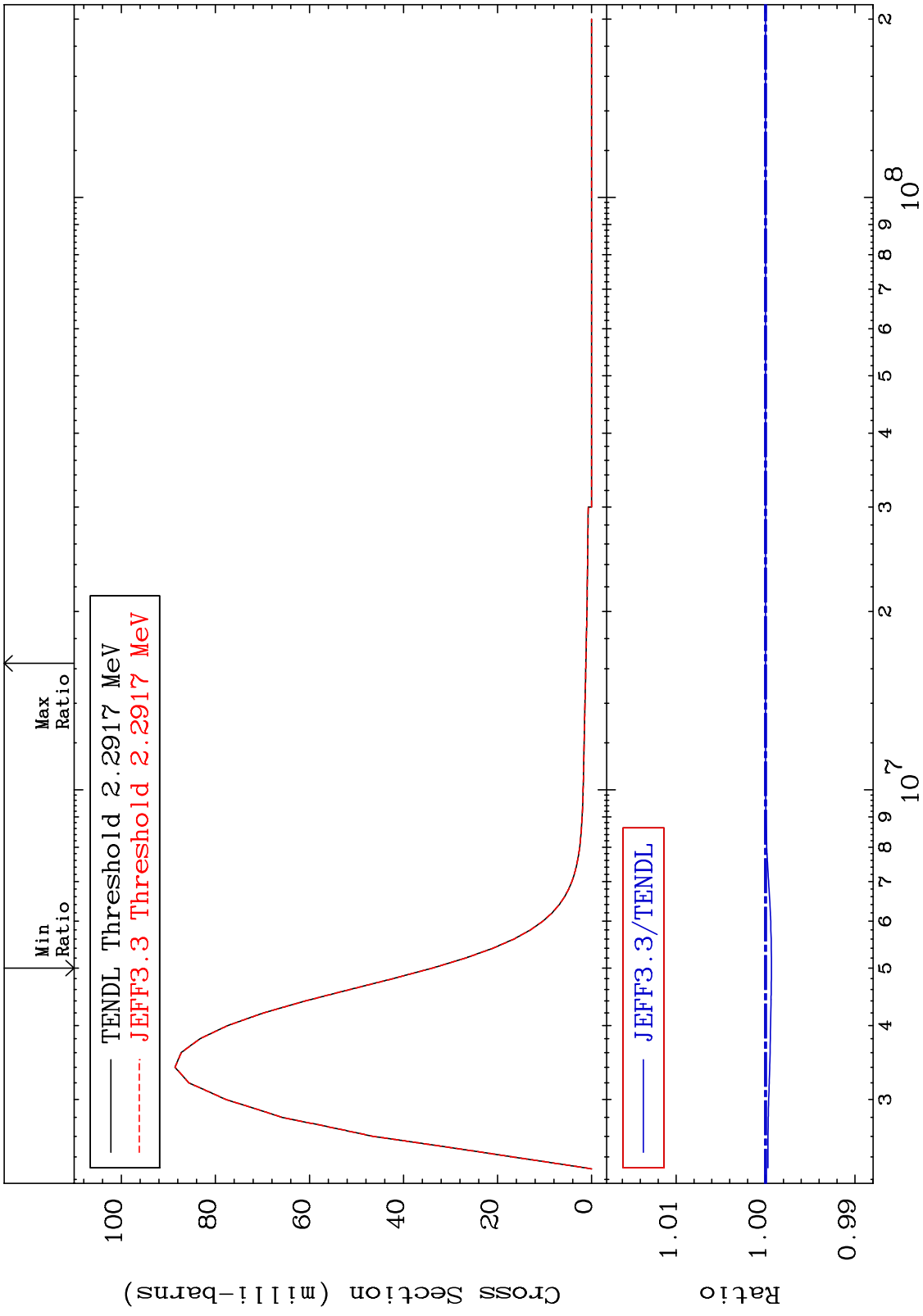
MAT 8431

MT= 64 (n,n') Level
Cross Section

84-Po-208
-0.095 To 0.155 %



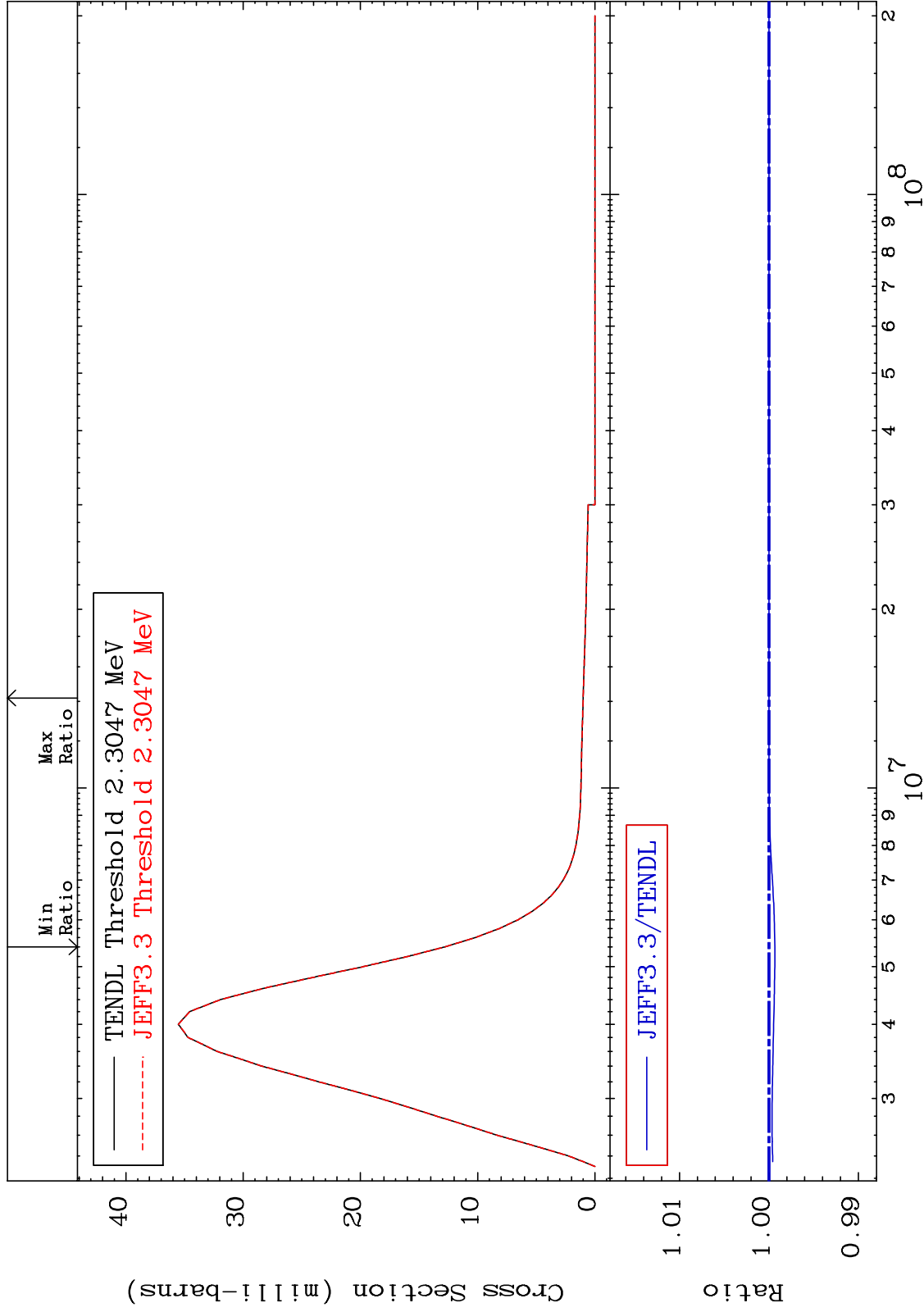
MAT 8431 MT= 65 (n,n') Level Cross Section 84-Po-208
 -0.066 To 0.000 %



MAT 8431

MT= 66 (n,n') Level
Cross Section

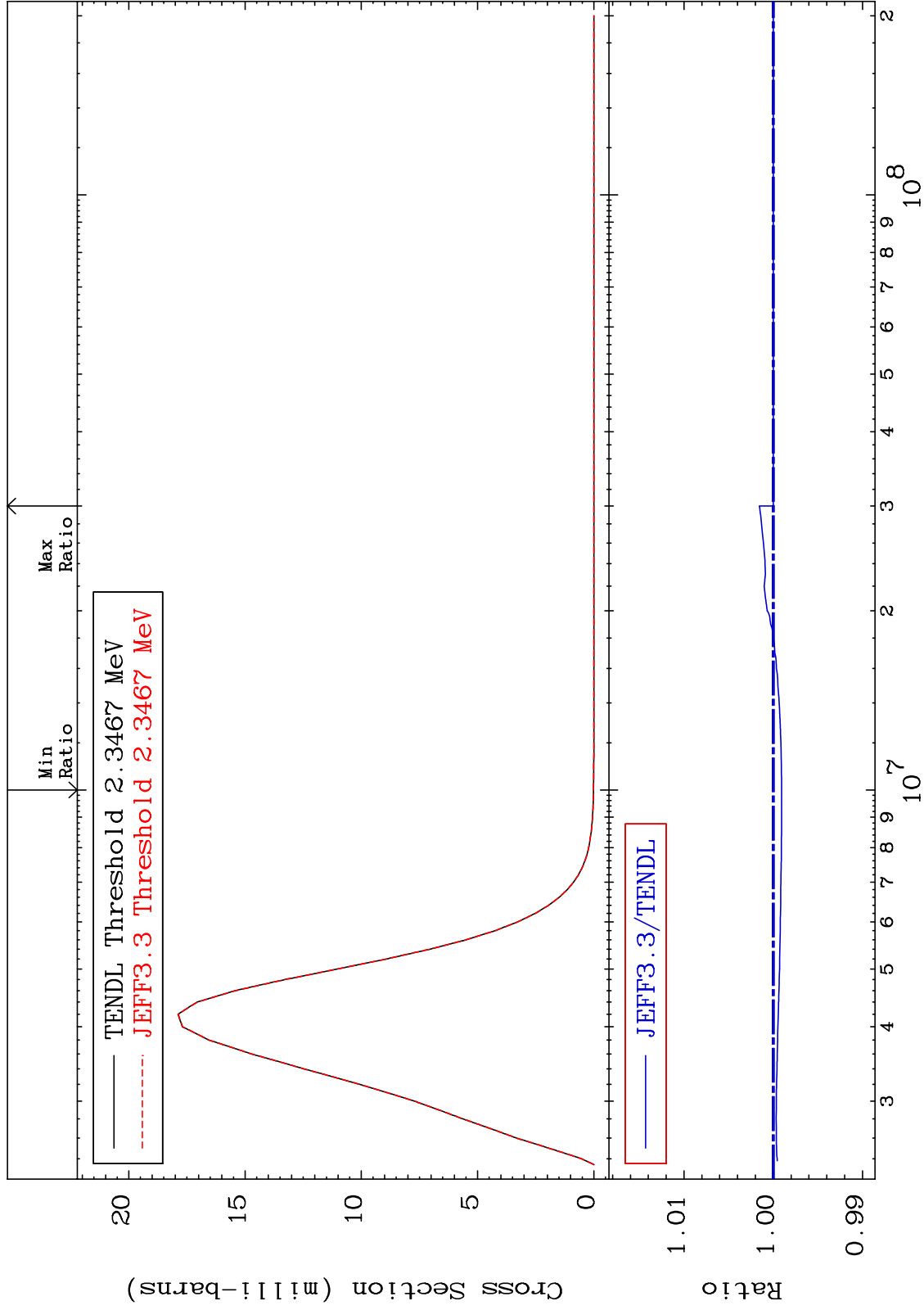
84-Po-208
-0.066 To 0.000 %



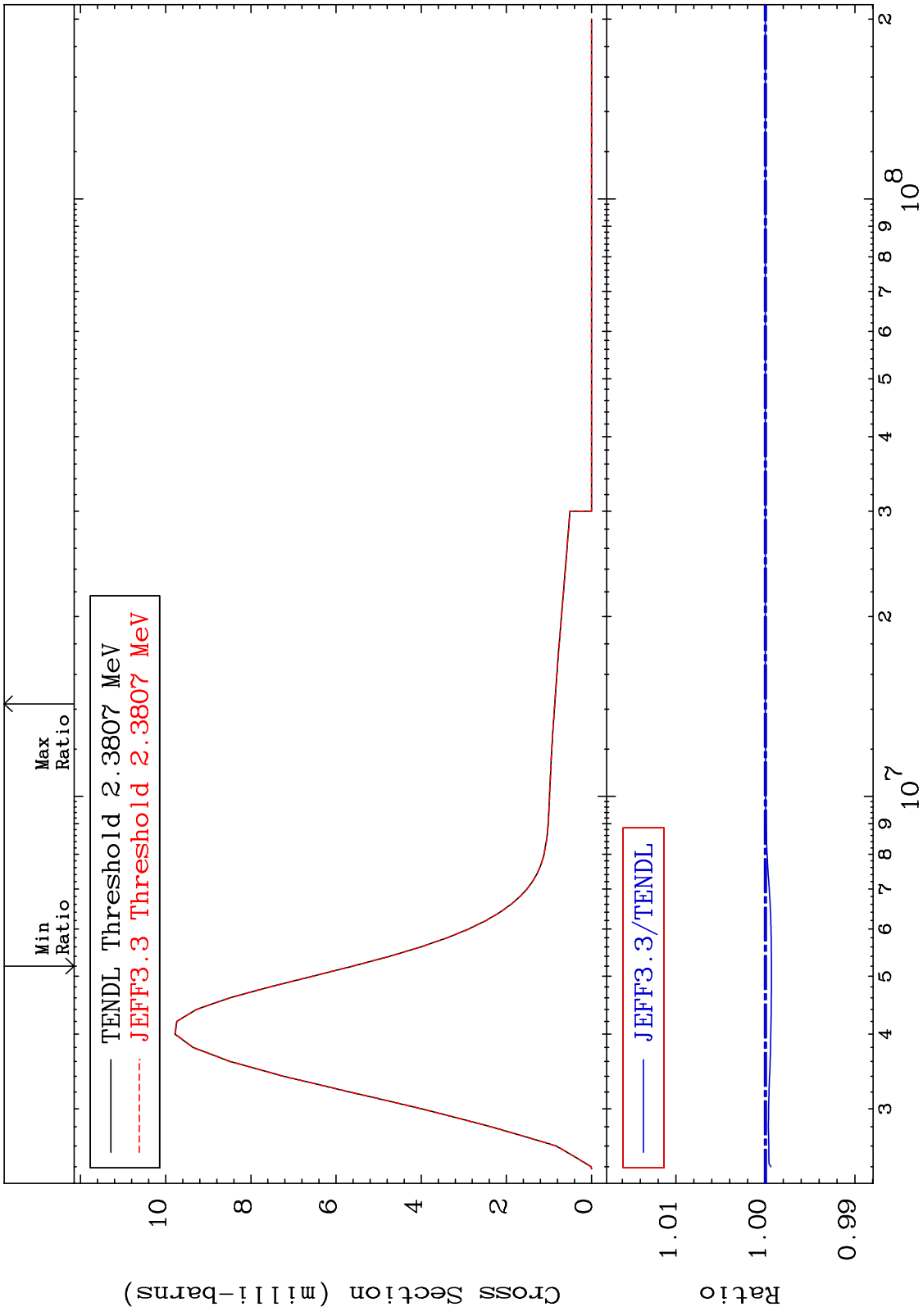
MAT 8431

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

84-Po-208
-0.094 To 0.155 %



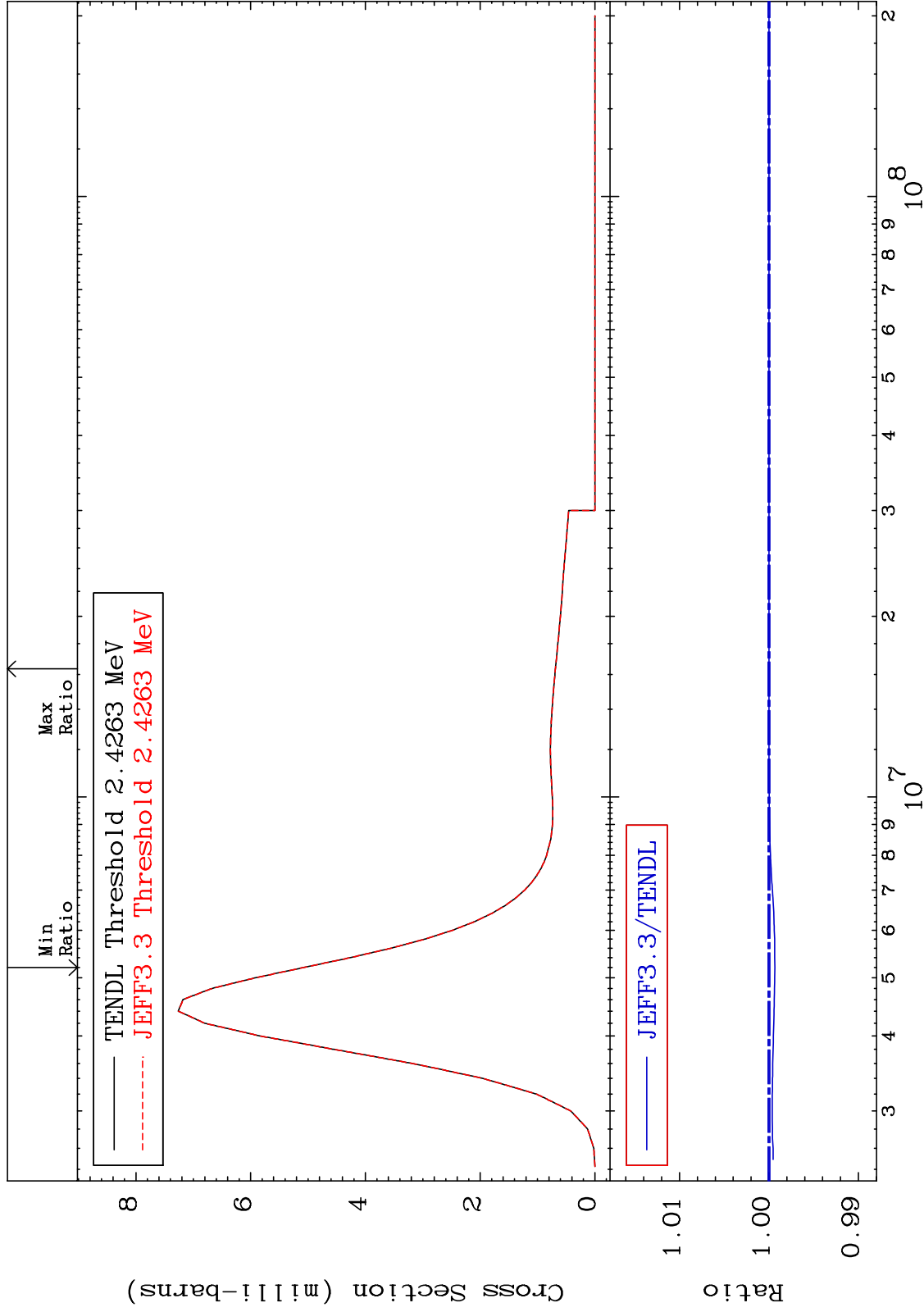
MAT 8431 MT= 68 (n,n') Level Cross Section 84-Po-208
 -0.067 To 0.000 %



MAT 8431

MT= 69 (n,n') Level
Cross Section

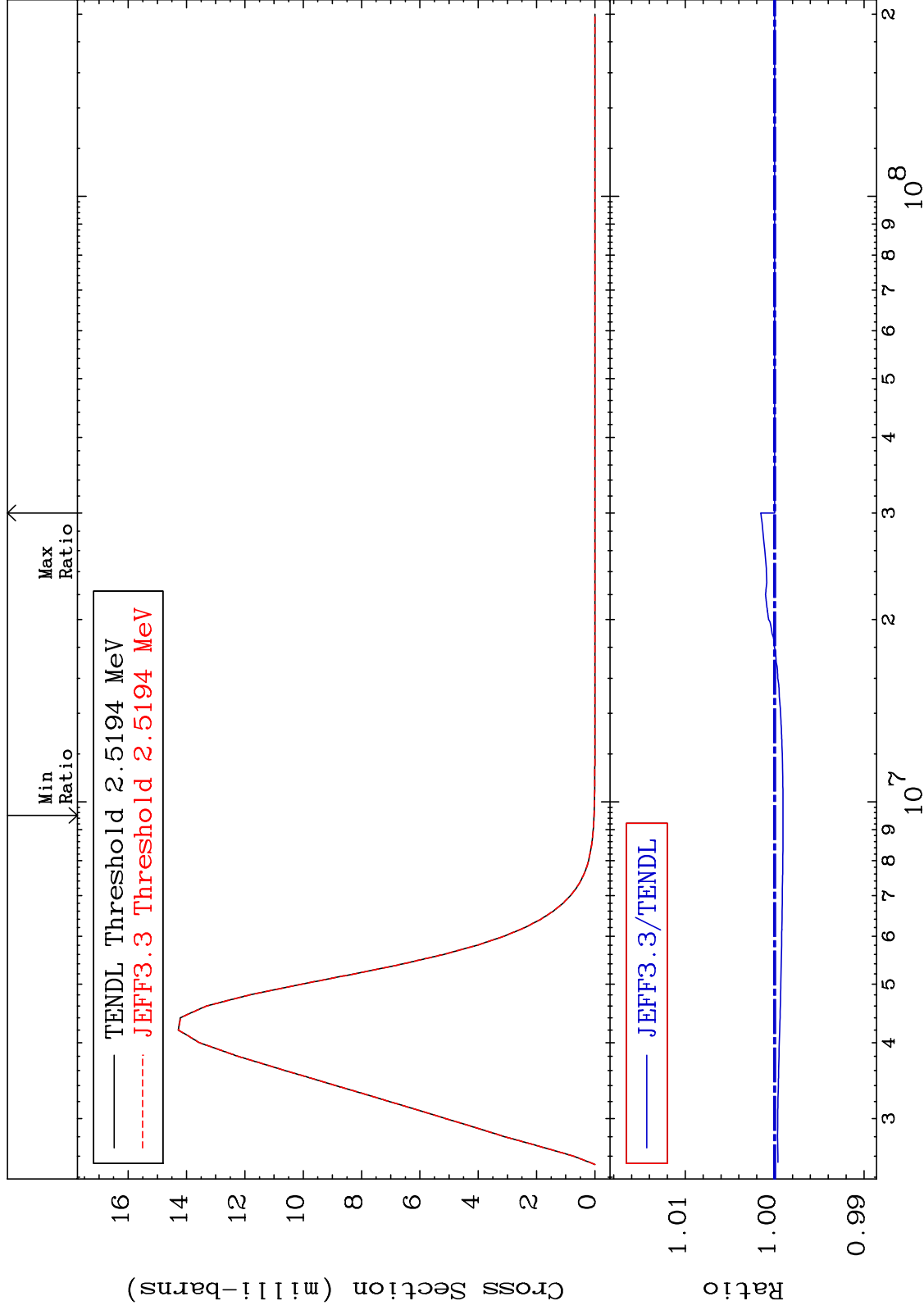
84-Po-208
-0.065 To 0.000 %



MAT 8431

MT= 70 (n,n') Level
Cross Section

84-Po-208
-0.094 To 0.155 %



40

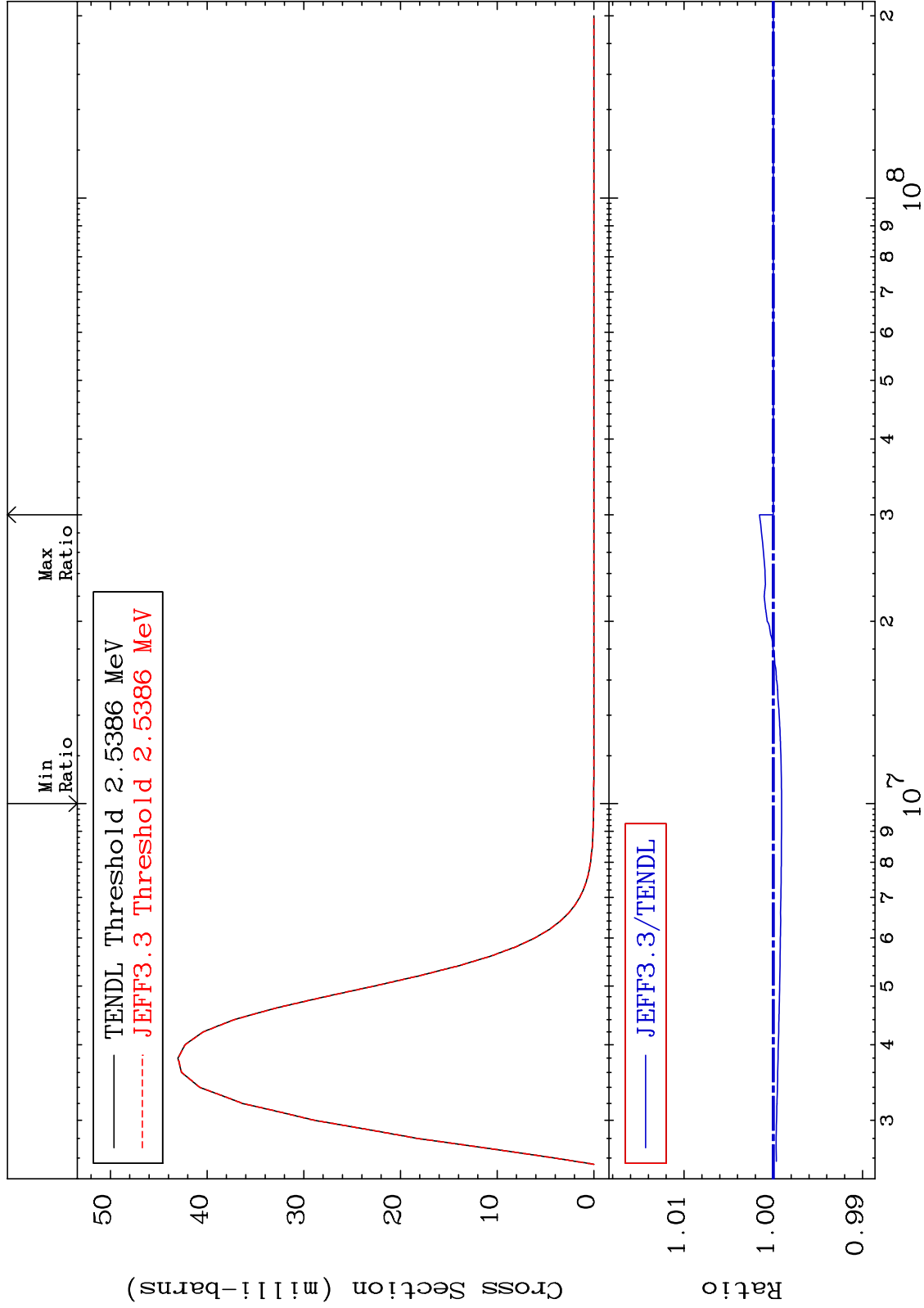
Incident Energy (eV)

84-Po-208

MAT 8431

MT= 71 (n,n') Level
Cross Section

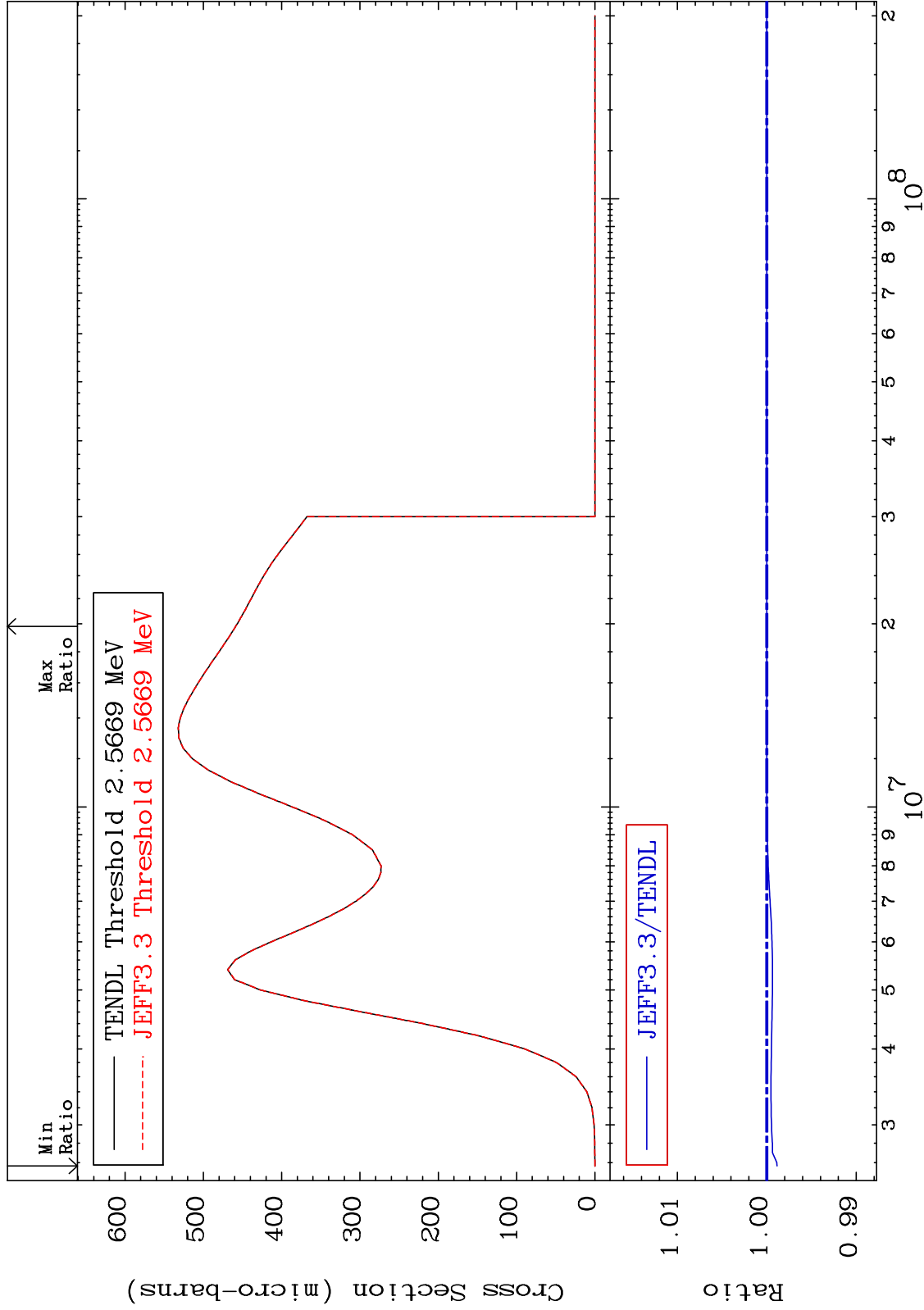
84-Po-208
-0.093 To 0.155 %



MAT 8431

MT= 72 (n,n') Level
Cross Section

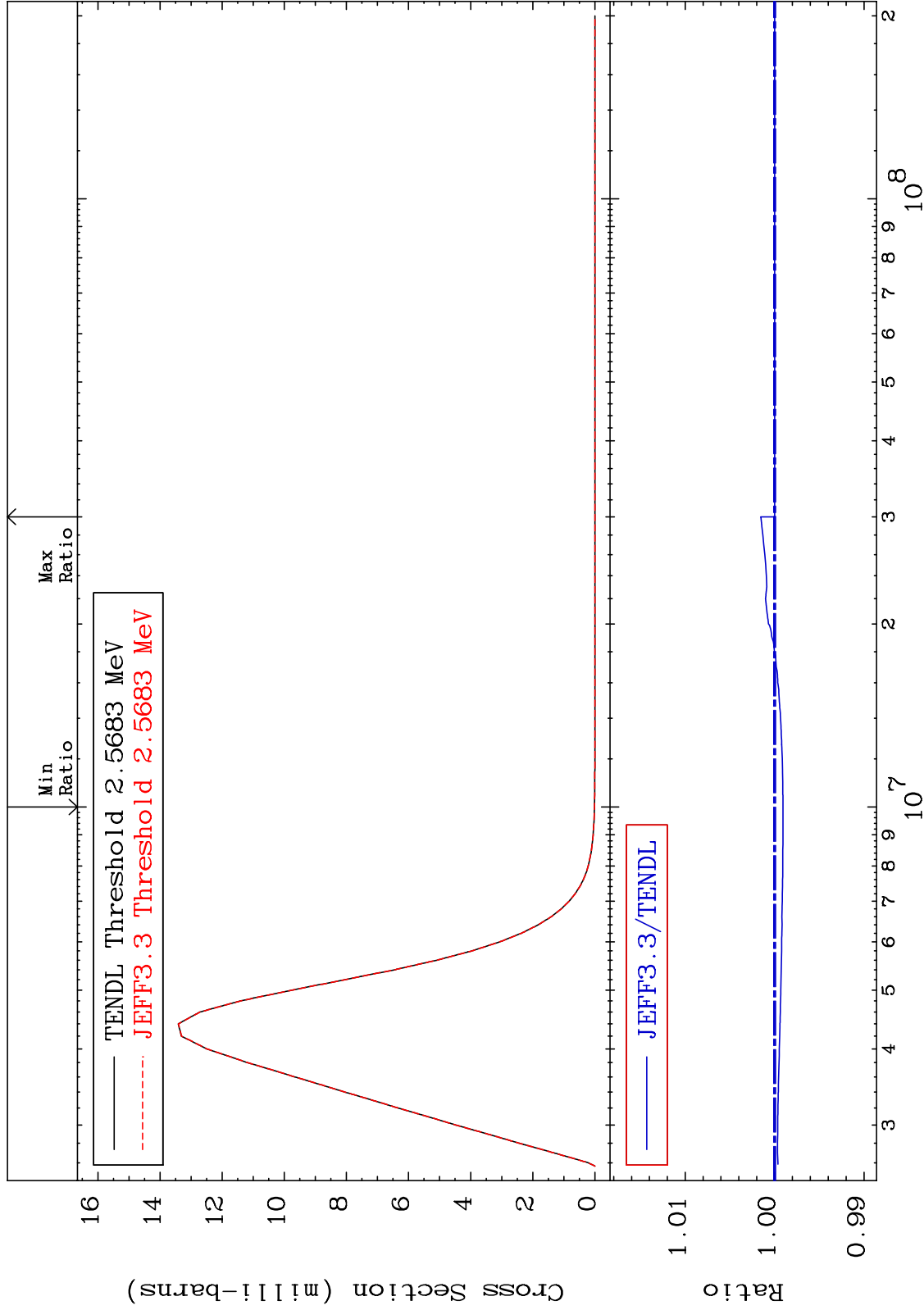
84-Po-208
-0.114 To 0.000 %



MAT 8431

MT= 73 (n,n') Level
Cross Section

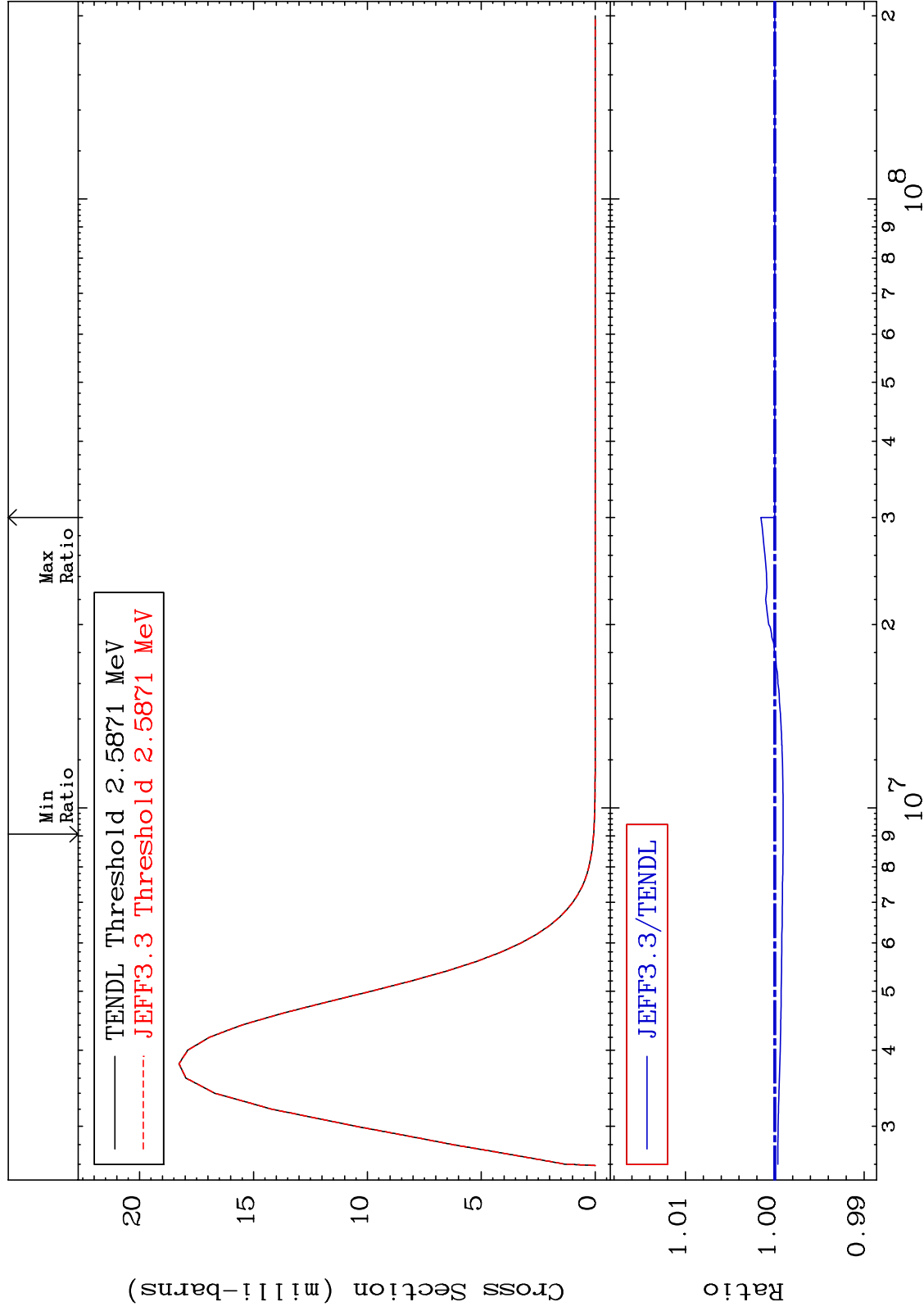
84-Po-208
-0.094 To 0.155 %



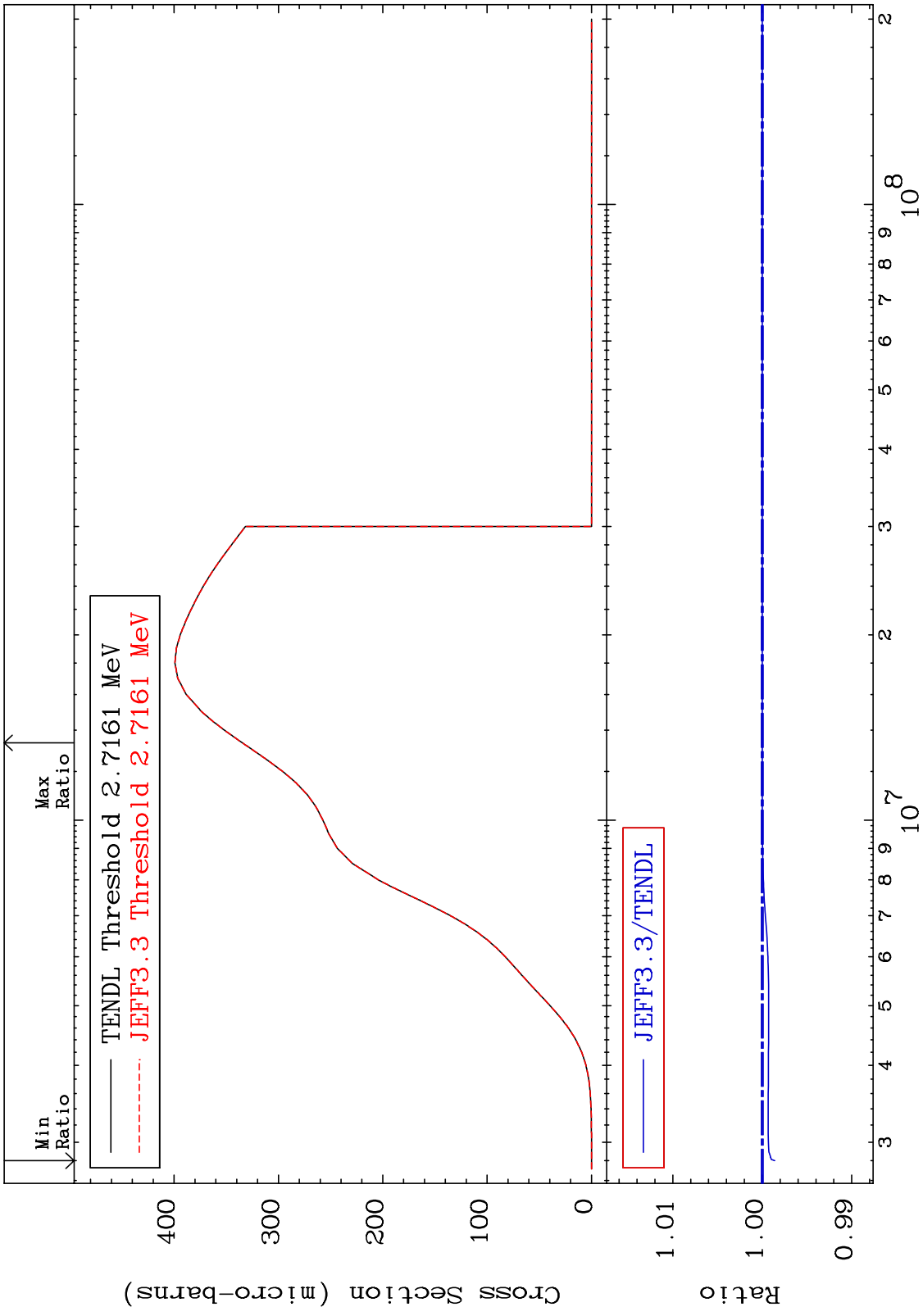
MAT 8431

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

84-Po-208
-0.093 To 0.155 %



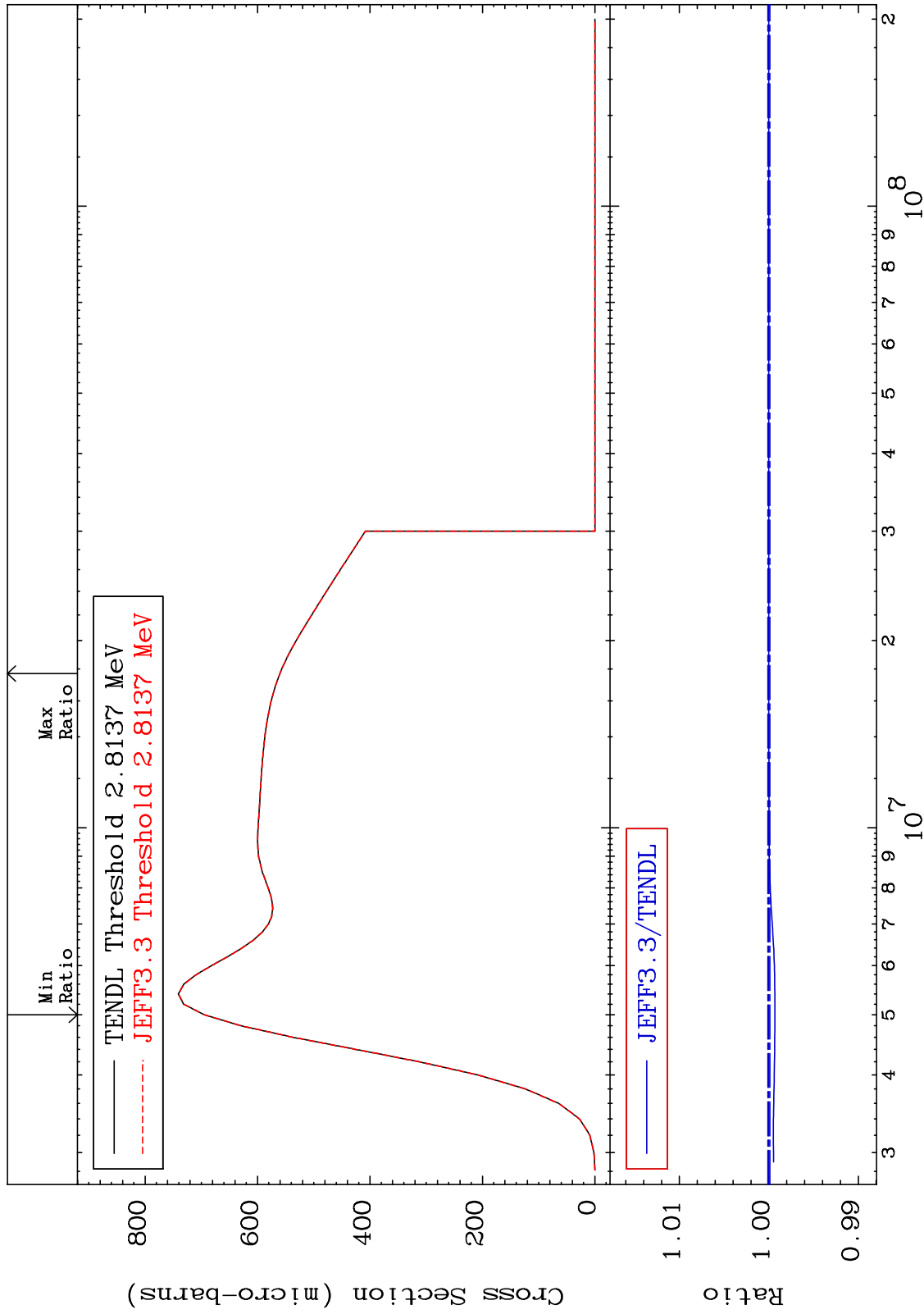
MAT 8431 MT= 75 (n,n') Level Cross Section 84-Po-208
 -0.138 To 0.000 %



MAT 8431

MT= 76 (n,n') Level
Cross Section

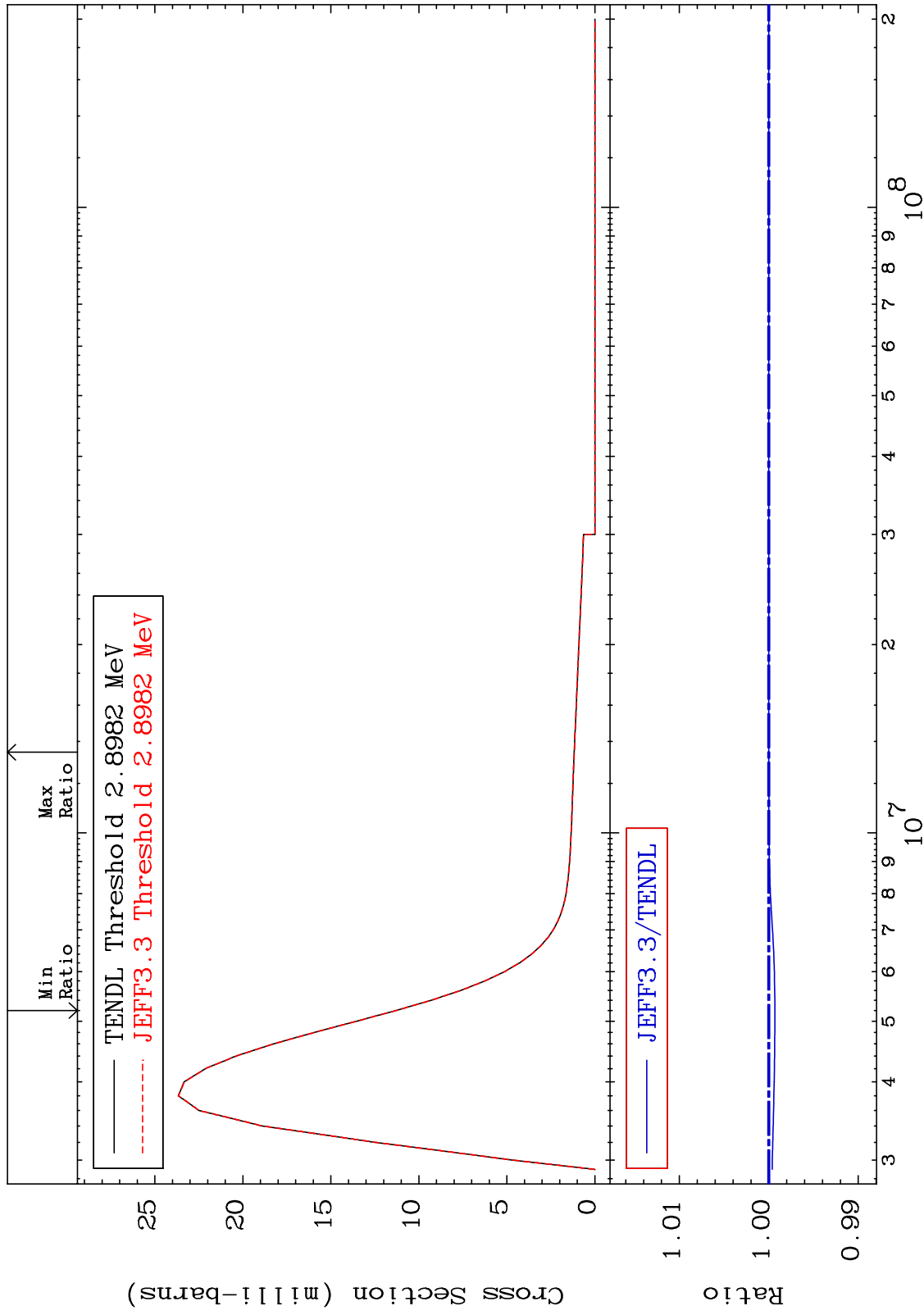
84-Po-208
-0.067 To 0.000 %



MAT 8431

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

84-Po-208
-0.068 To 0.000 %



47

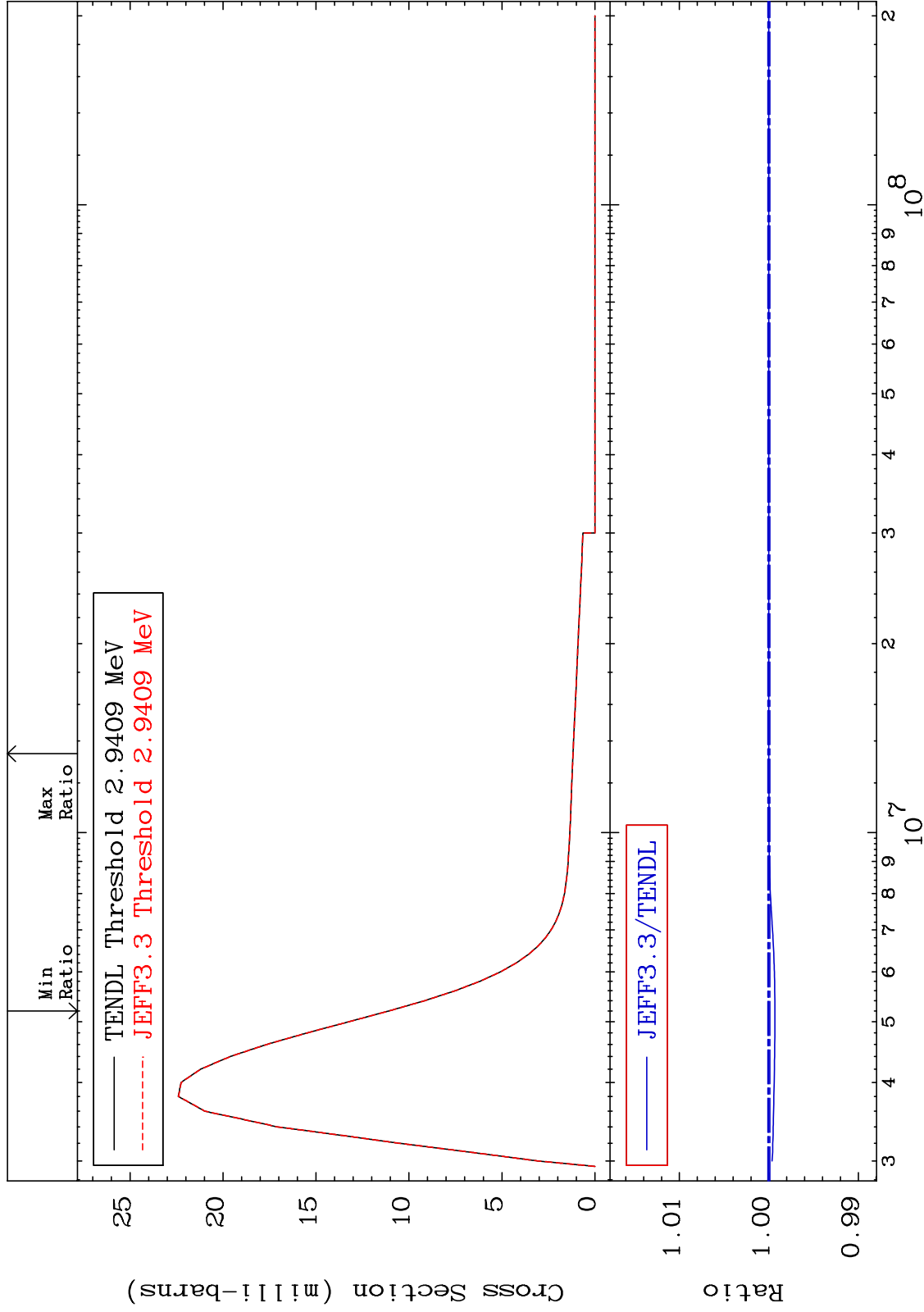
Incident Energy (eV)

84-Po-208

MAT 8431

MT= 78 (n,n') Level
Cross Section

84-Po-208
-0.068 To 0.000 %



48

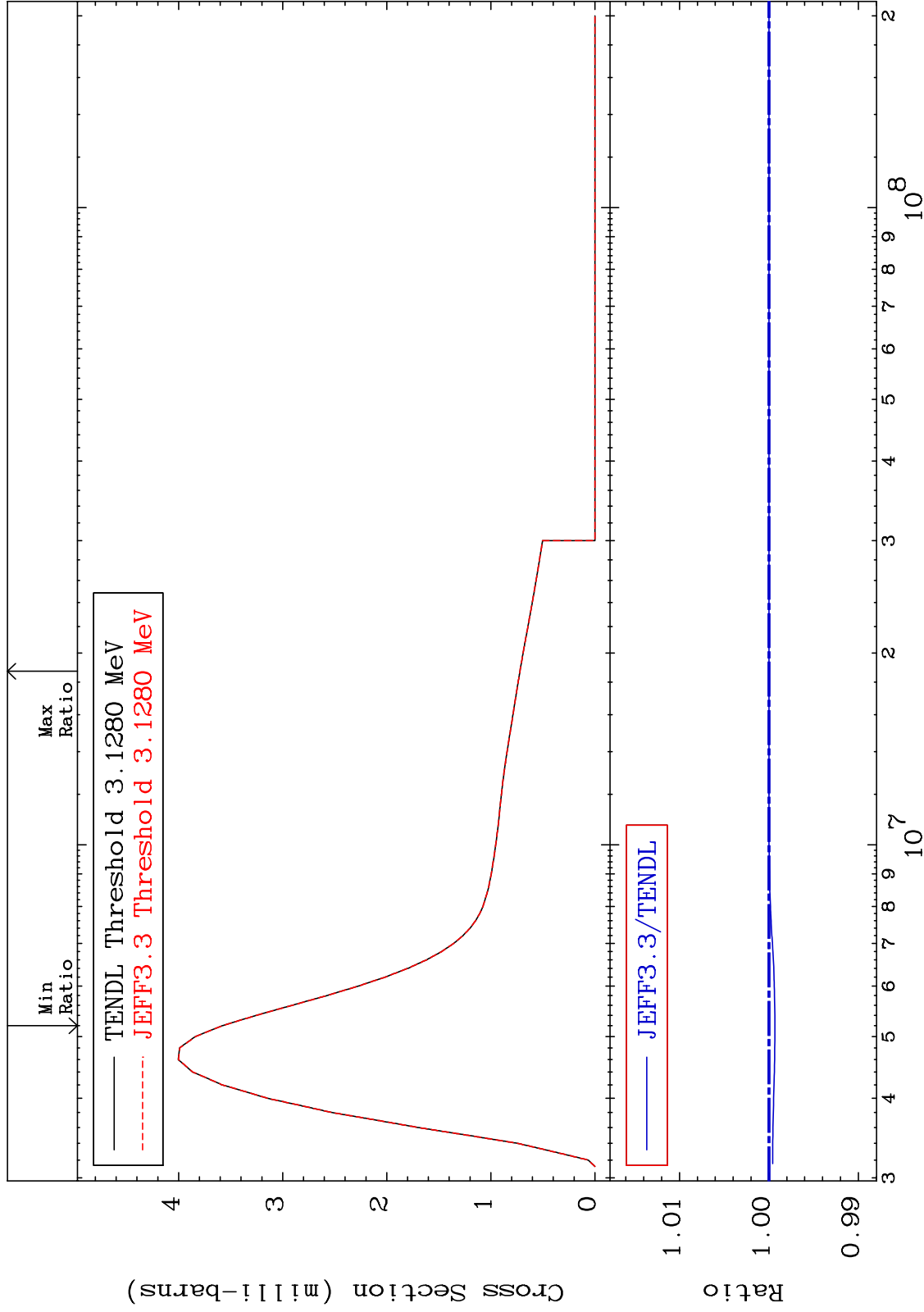
Incident Energy (eV)

84-Po-208

MAT 8431

MT= 79 (n,n') Level
Cross Section

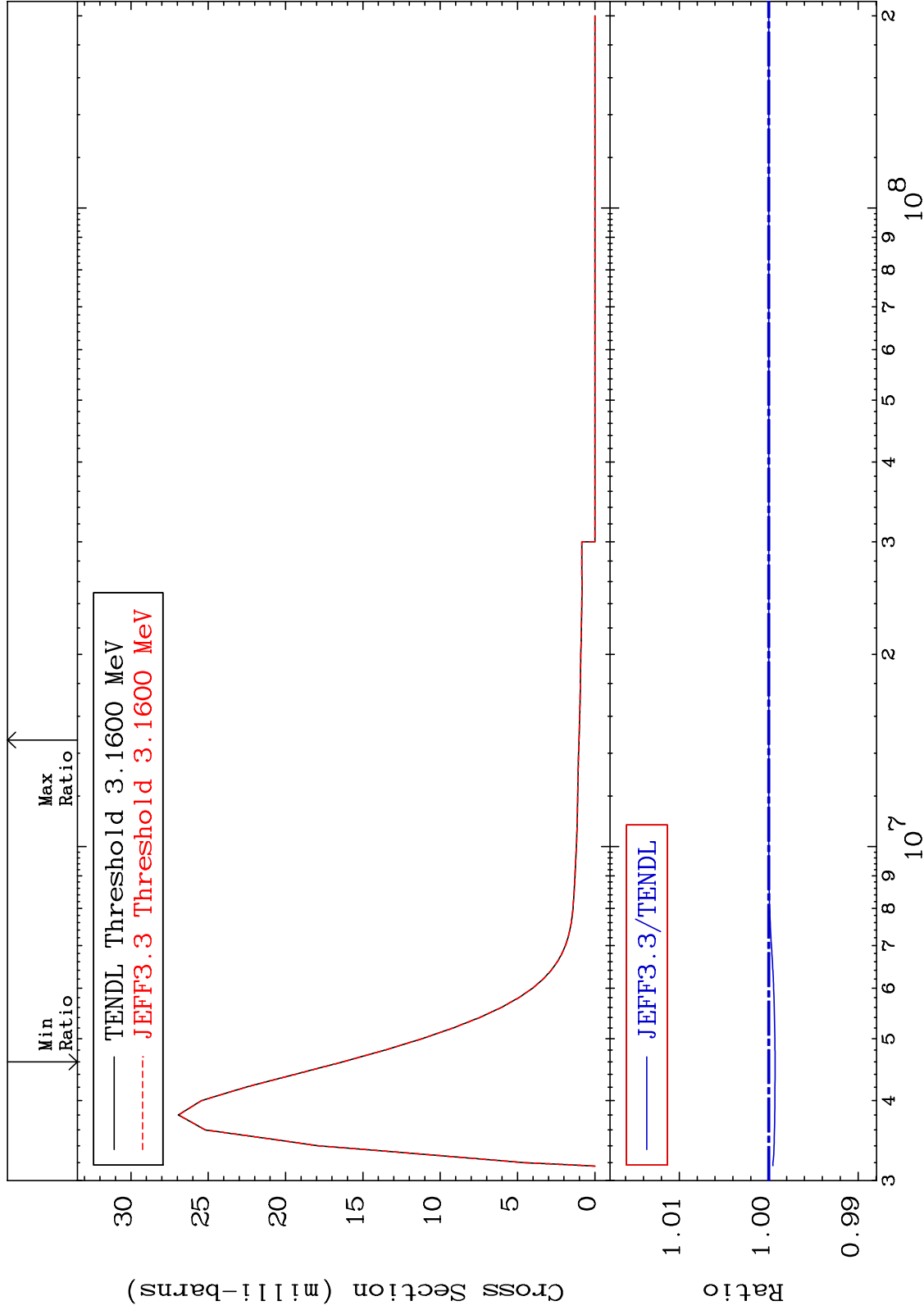
84-Po-208
-0.066 To 0.000 %



MAT 8431

MT= 80 (n,n') Level
Cross Section

84-Po-208
-0.071 To 0.000 %



50

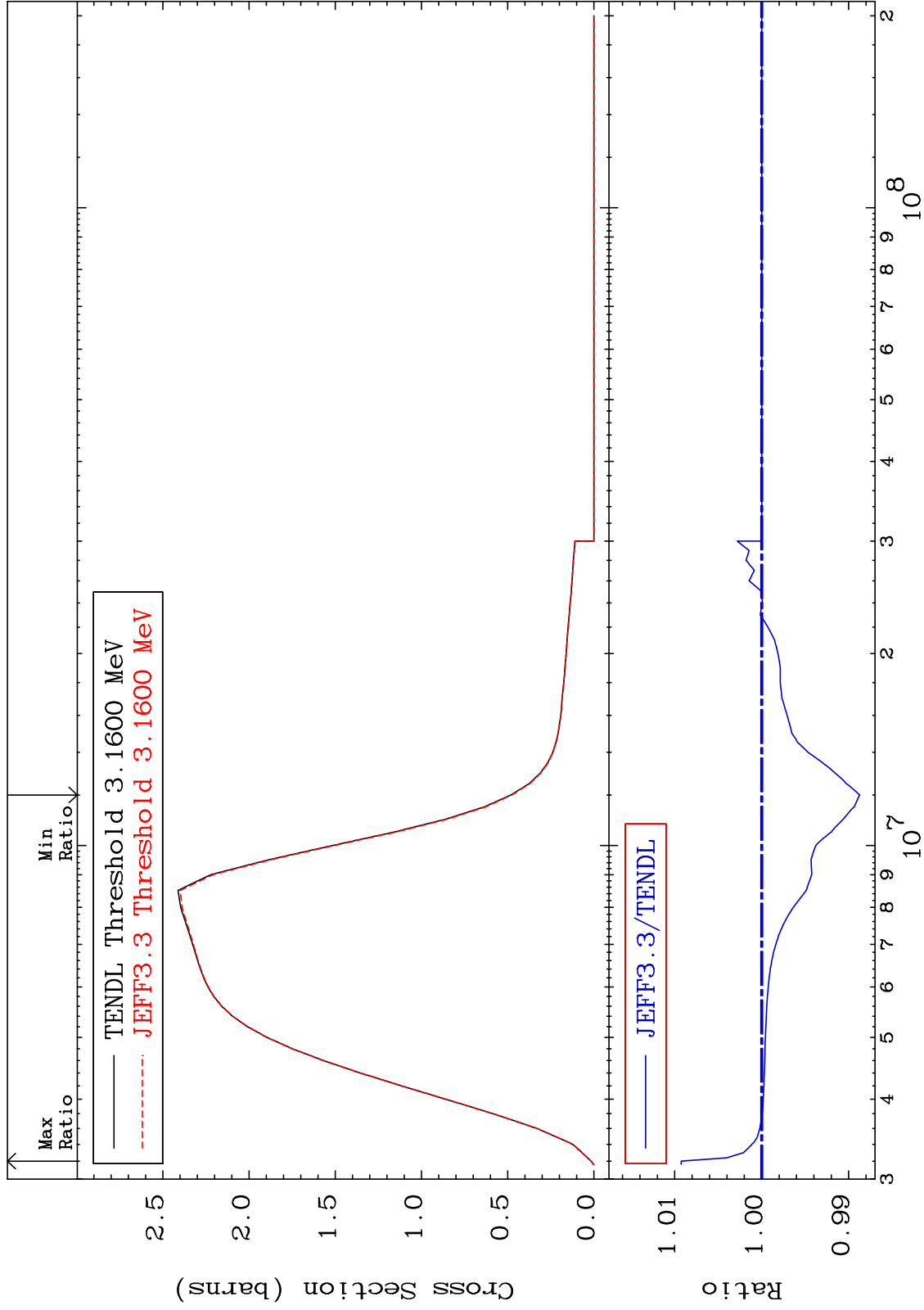
Incident Energy (eV)

84-Po-208

MAT 8431

(n, n') Continuum
Cross Section

84-Po-208
-1.127 To 0.925 %



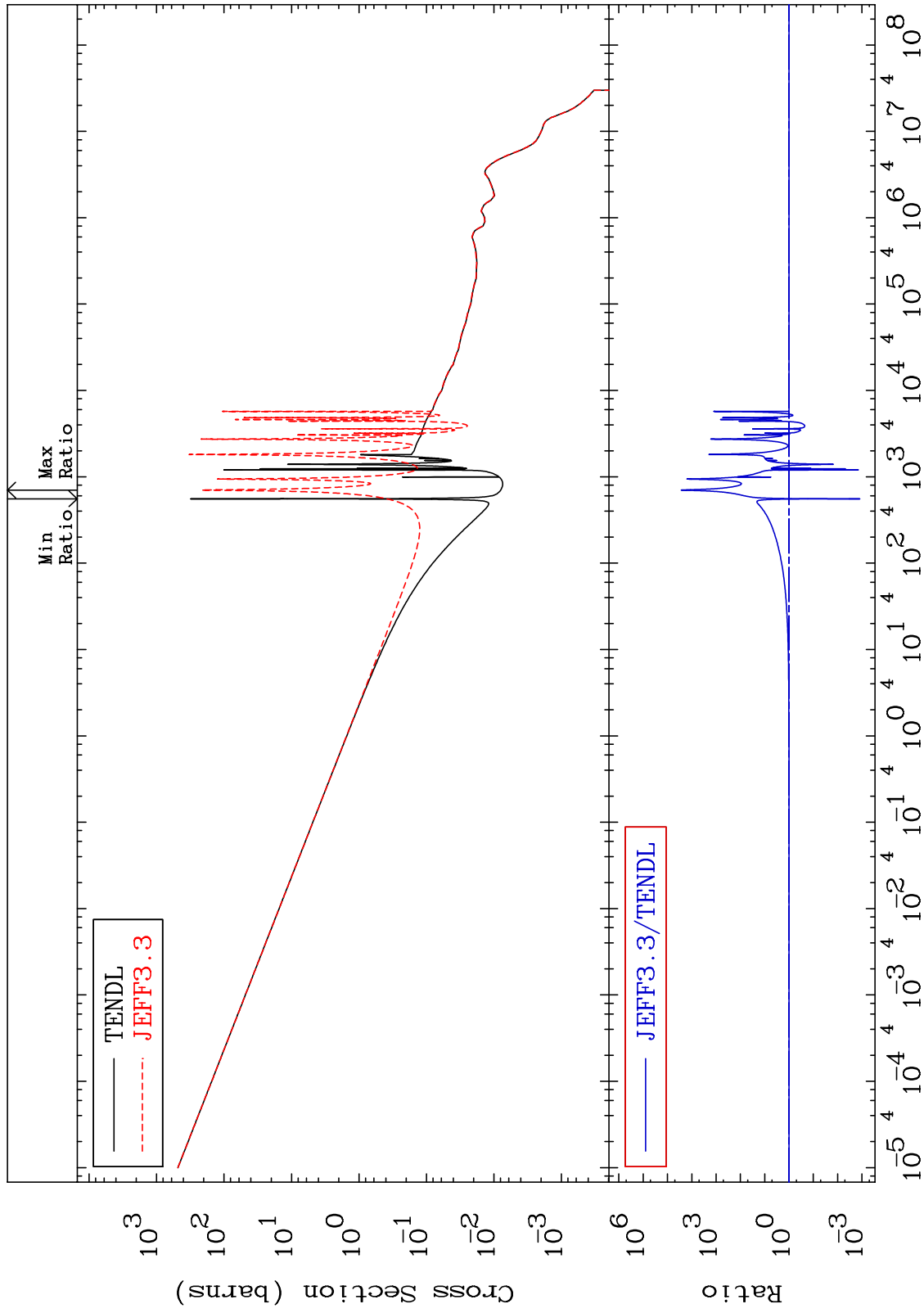
MAT 8431

(n, γ)

84-Po-208

-99.88 To 9999. %

Cross Section



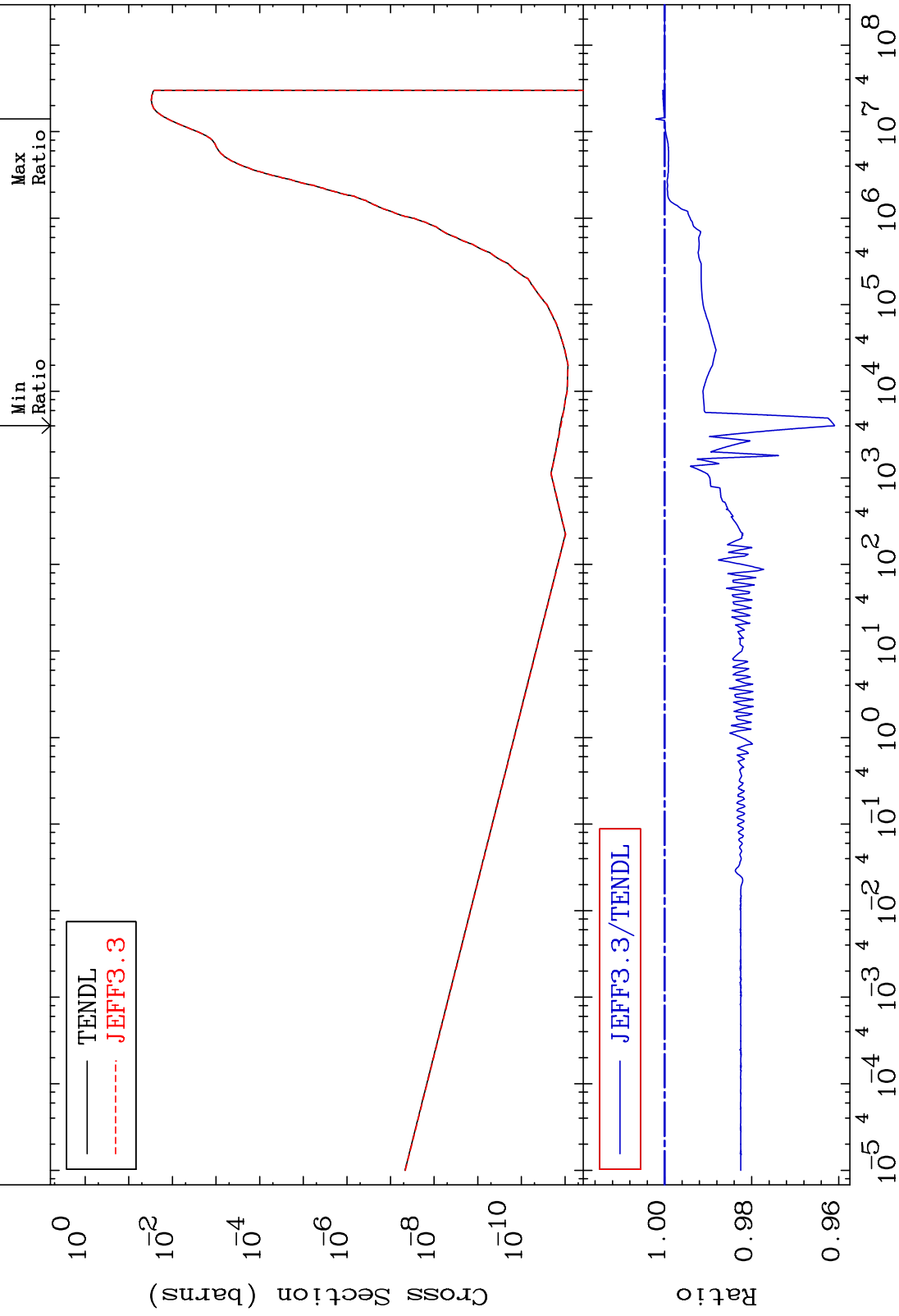
MAT 8431

(n,p)

84-Po-208

Cross Section

-3.907 To 0.207 %



MAT 8431

(n, d)

84-Po-208

-0.986 To 0.014 %

Cross Section

Min Ratio

Max Ratio

TENDL Threshold 2.4914 MeV
JEFF3.3 Threshold 2.4914 MeV

Cross Section (milli-barns)

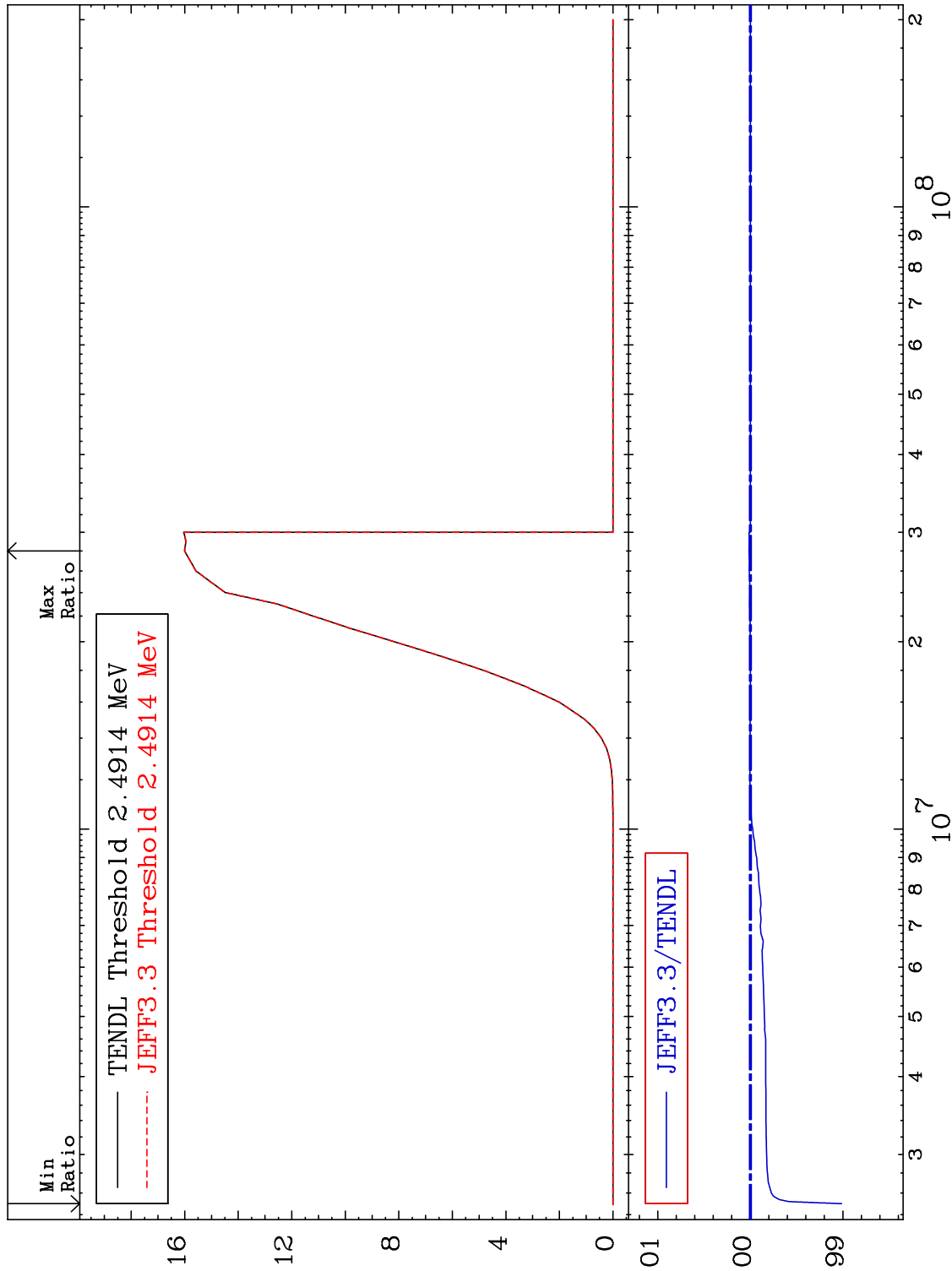
JEFF3.3/TENDL

Ratio

54

Incident Energy (eV)

84-Po-208



MAT 8431

84-Po-208

(n, t)

Cross Section

Cross Section

Min Ratio

Max Ratio

TENDL Threshold 4.3407 MeV
JEFF3.3 Threshold 4.3407 MeV

Cross Section (milli-barns)

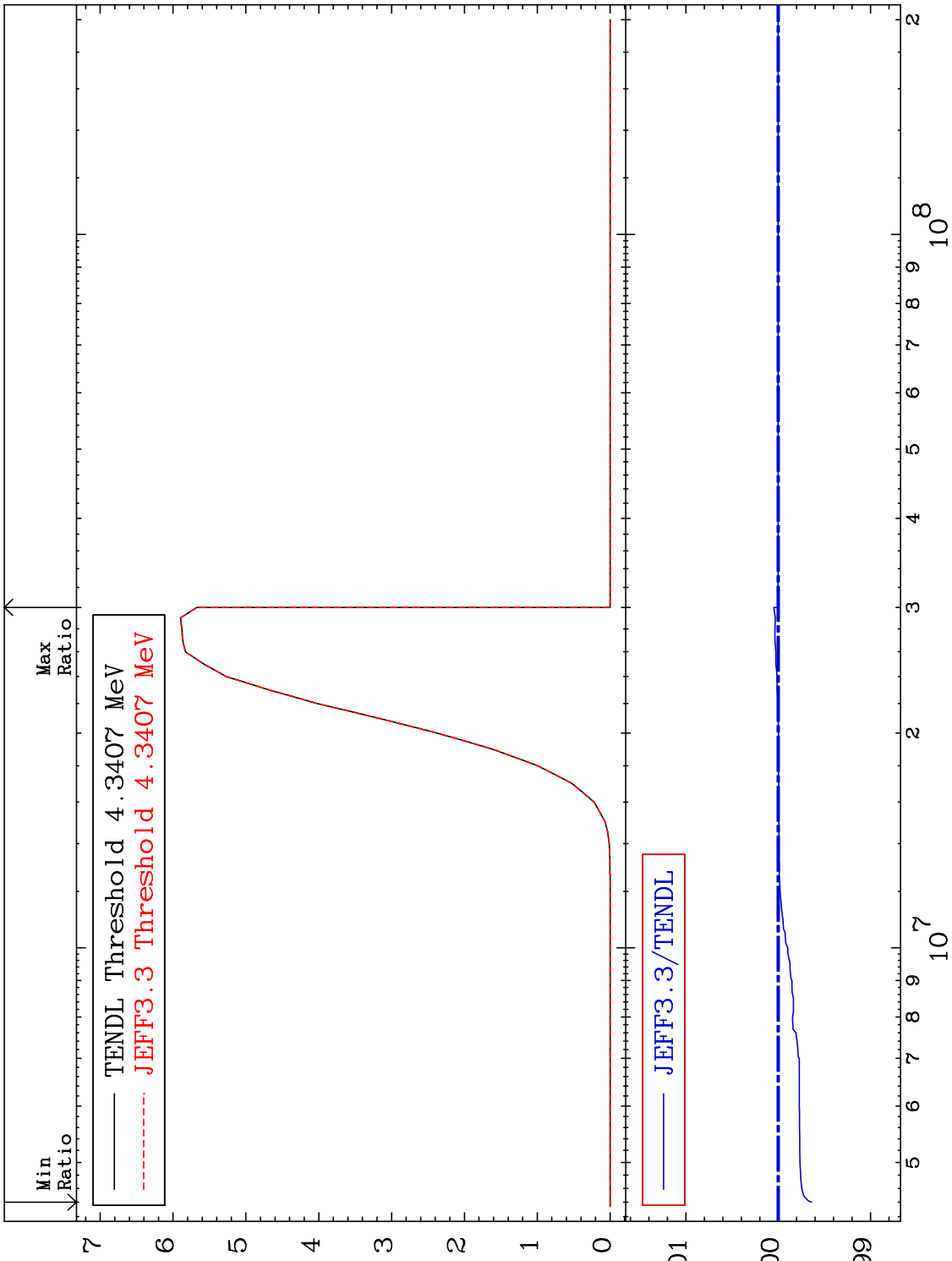
JEFF3.3/TENDL

Ratio

55

Incident Energy (eV)

84-Po-208



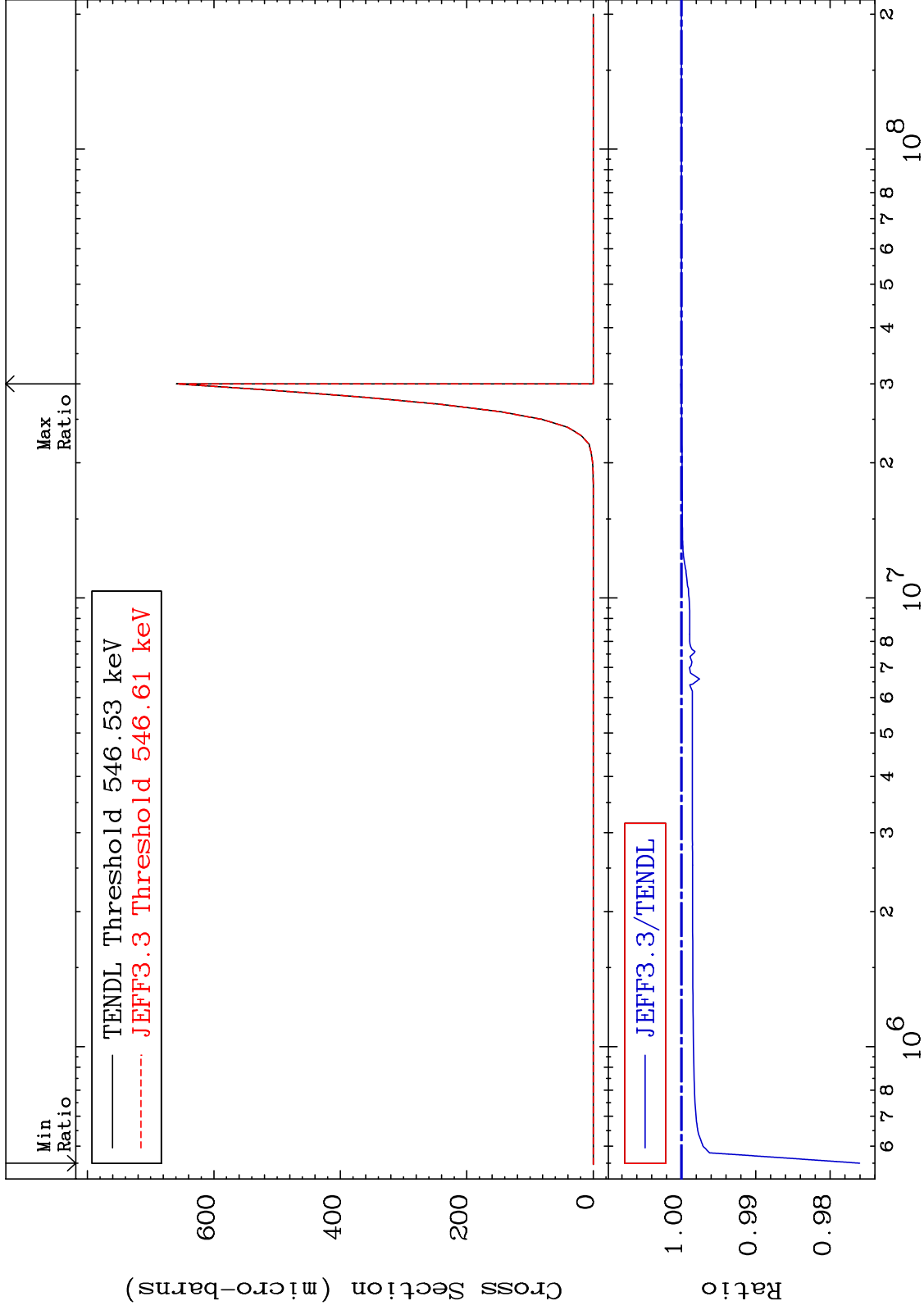
MAT 8431

(n, He-3)

84-Po-208

Cross Section

-2.396 To 0.008 %



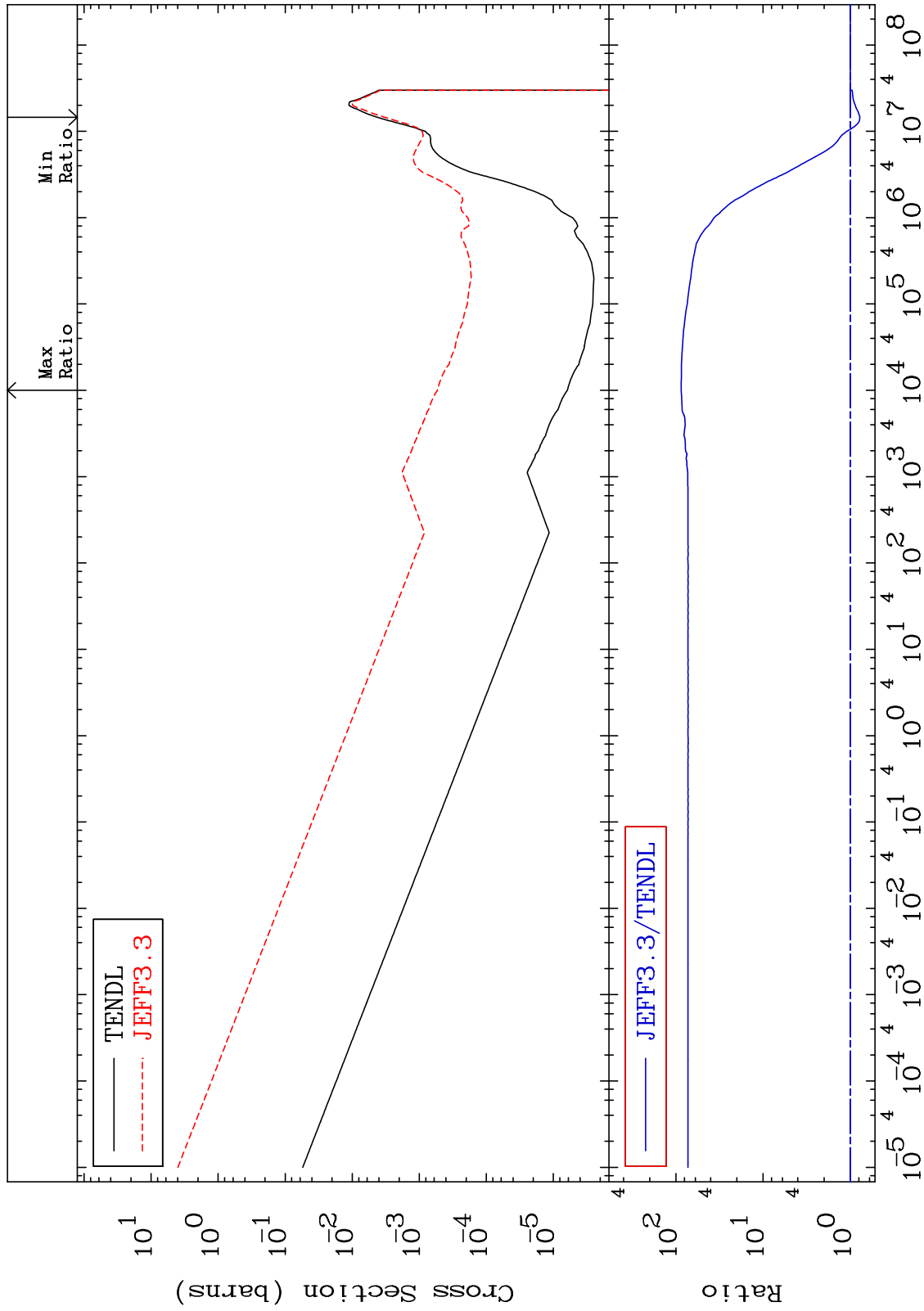
MAT 8431

(n, α)

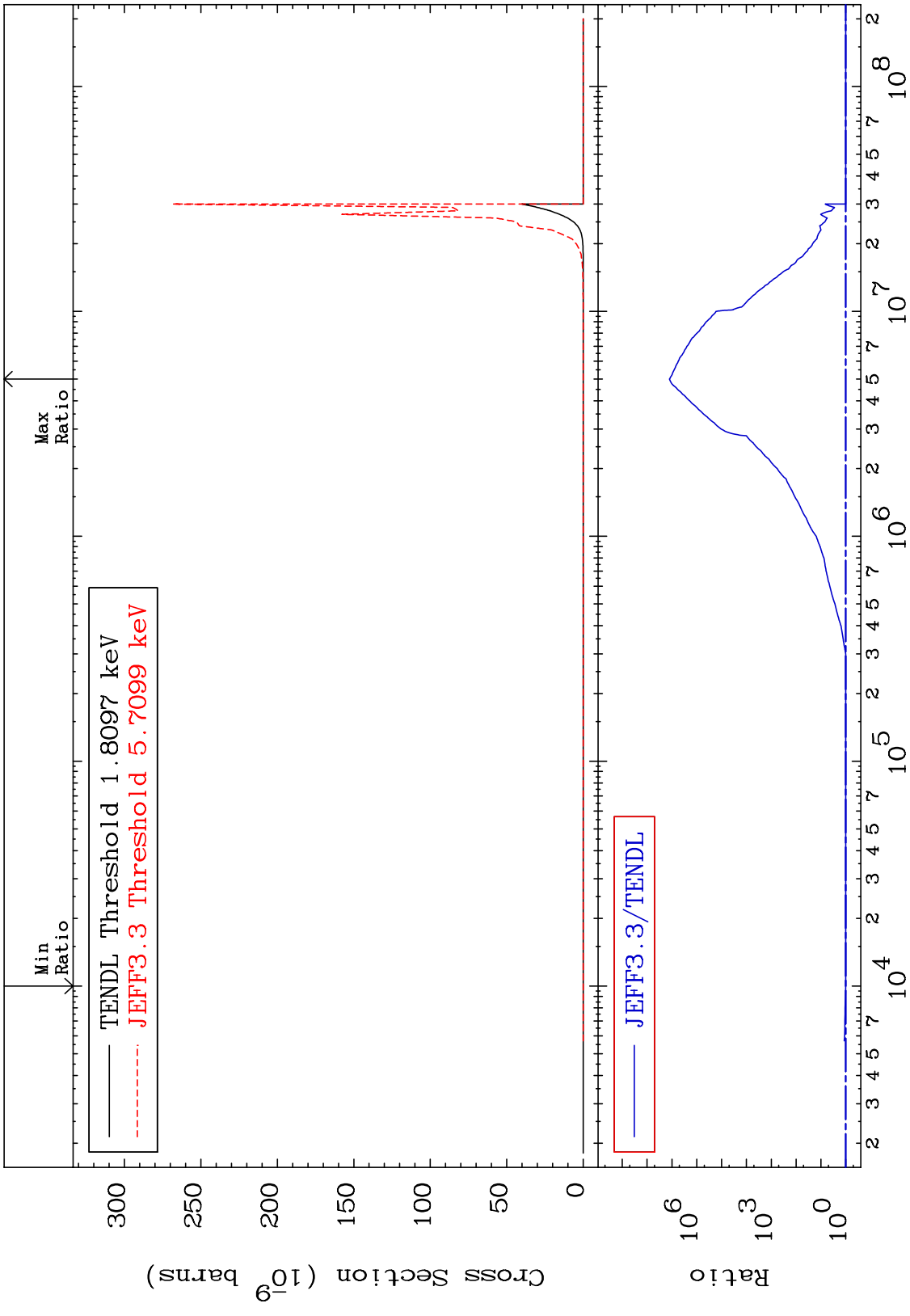
84-Po-208

Cross Section

-22.12 To 8596. %



MAT 8431 84-Po-208
To 9999. %
 (n,2α)
 Cross Section



MAT 8431

(n,2p)

84-Po-208

-3.630 To 0.011 %

Cross Section

Min Ratio

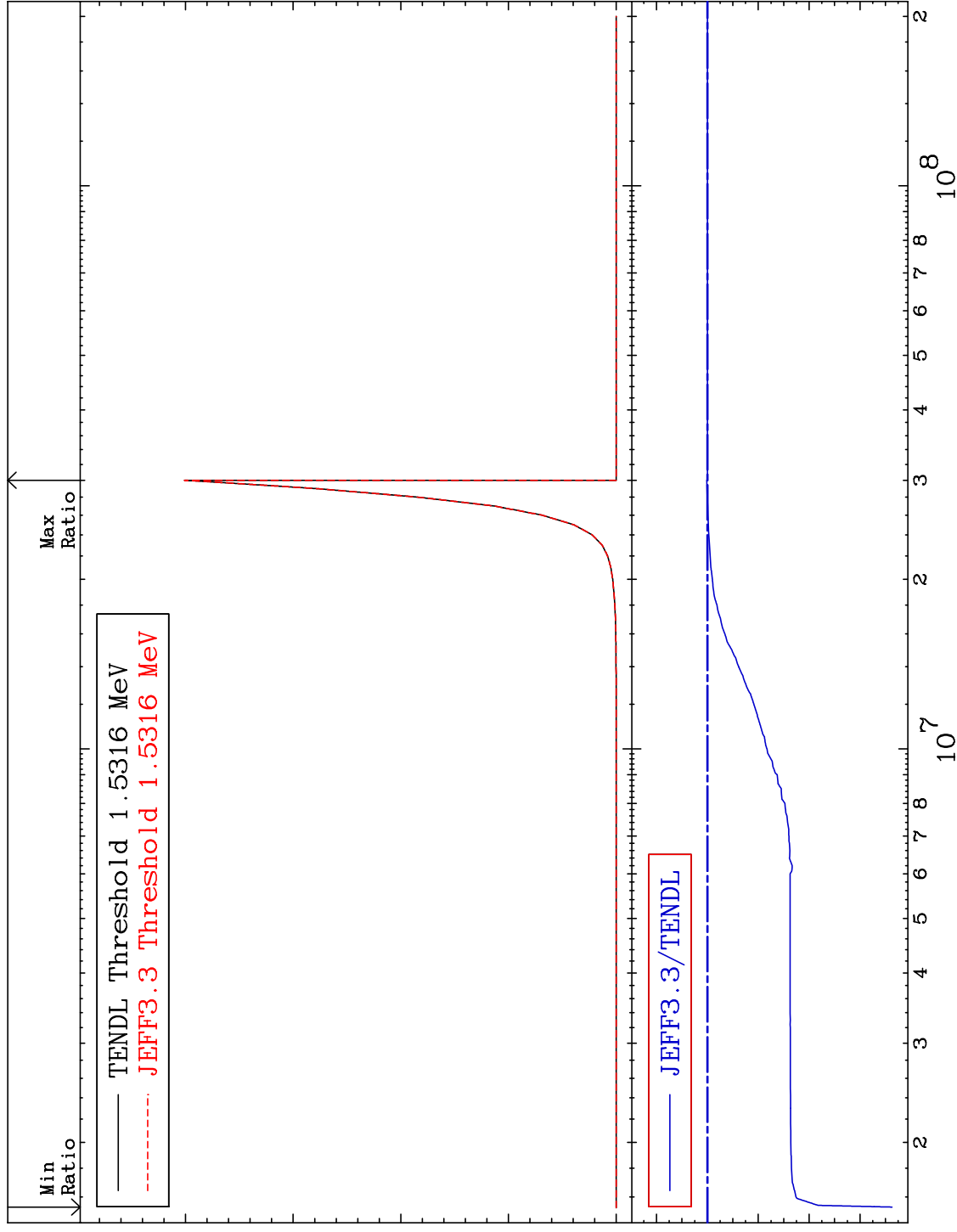
Max Ratio

TENDL Threshold 1.5316 MeV
JEFF3.3 Threshold 1.5316 MeV

JEFF3.3/TENDL

Cross Section (micro-barns)

Ratio



MAT 8431

(n,p) α

84-Po-208

Cross Section

Cross Section

0.000 To 9999. %

Min Ratio

Max Ratio

TENDL Threshold 1.8097 keV
JEFF3.3 Threshold 5.7099 keV

Cross Section (micro-barns)

2.0
1.5
1.0
0.5
0.0

JEFF3.3/TENDL

Ratio
 10^4
 10^2
 10^0

2 3 4 5 7 10⁴ 2 3 4 5 7 10⁵ 2 3 4 5 7 10⁶ 2 3 4 5 7 10⁷ 2 3 4 5 7 10⁸ 2

60

Incident Energy (eV)

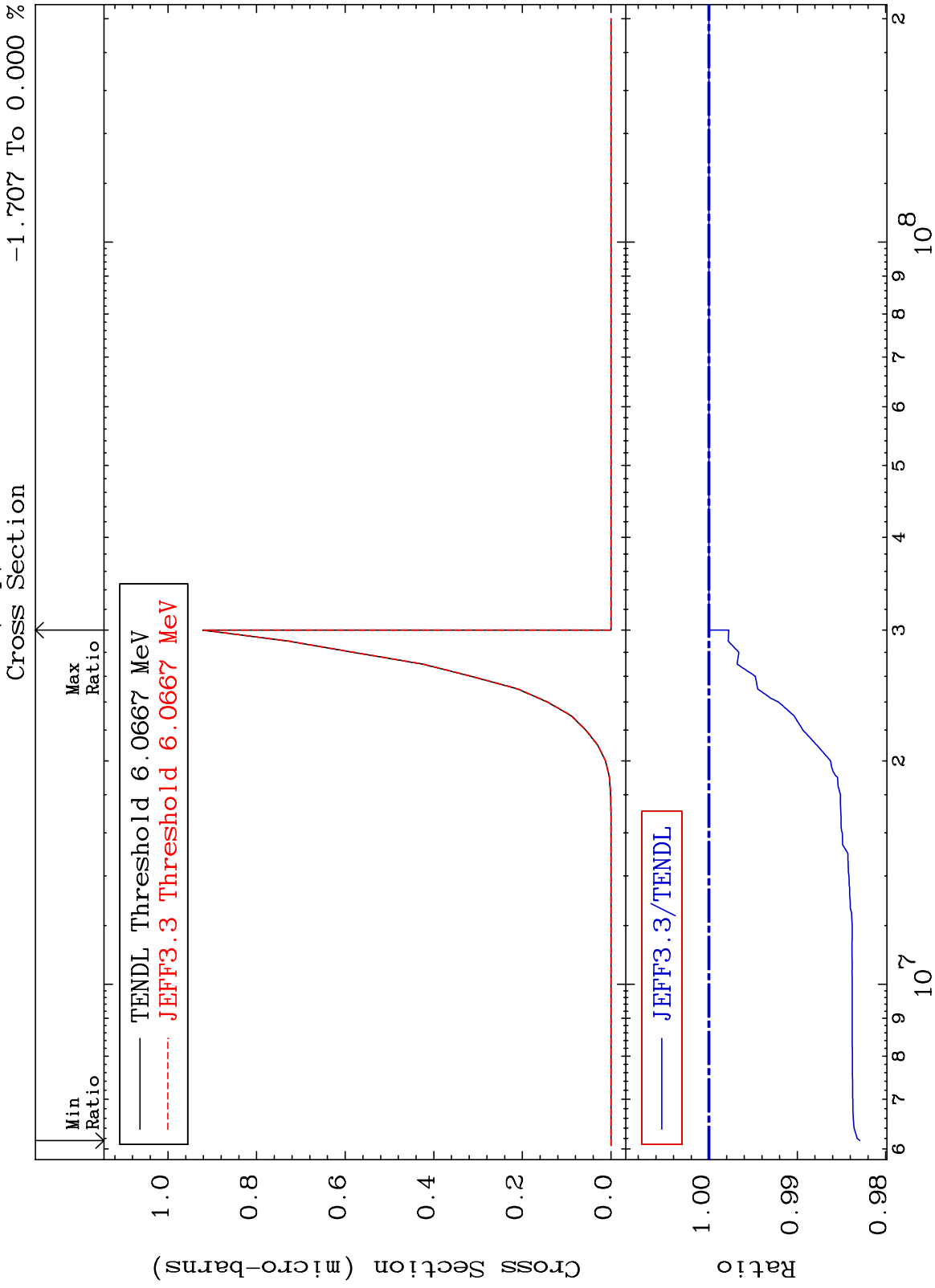
84-Po-208

MAT 8431

(n,p) d

84-Po-208

-1.707 To 0.000 %



61

Incident Energy (eV)

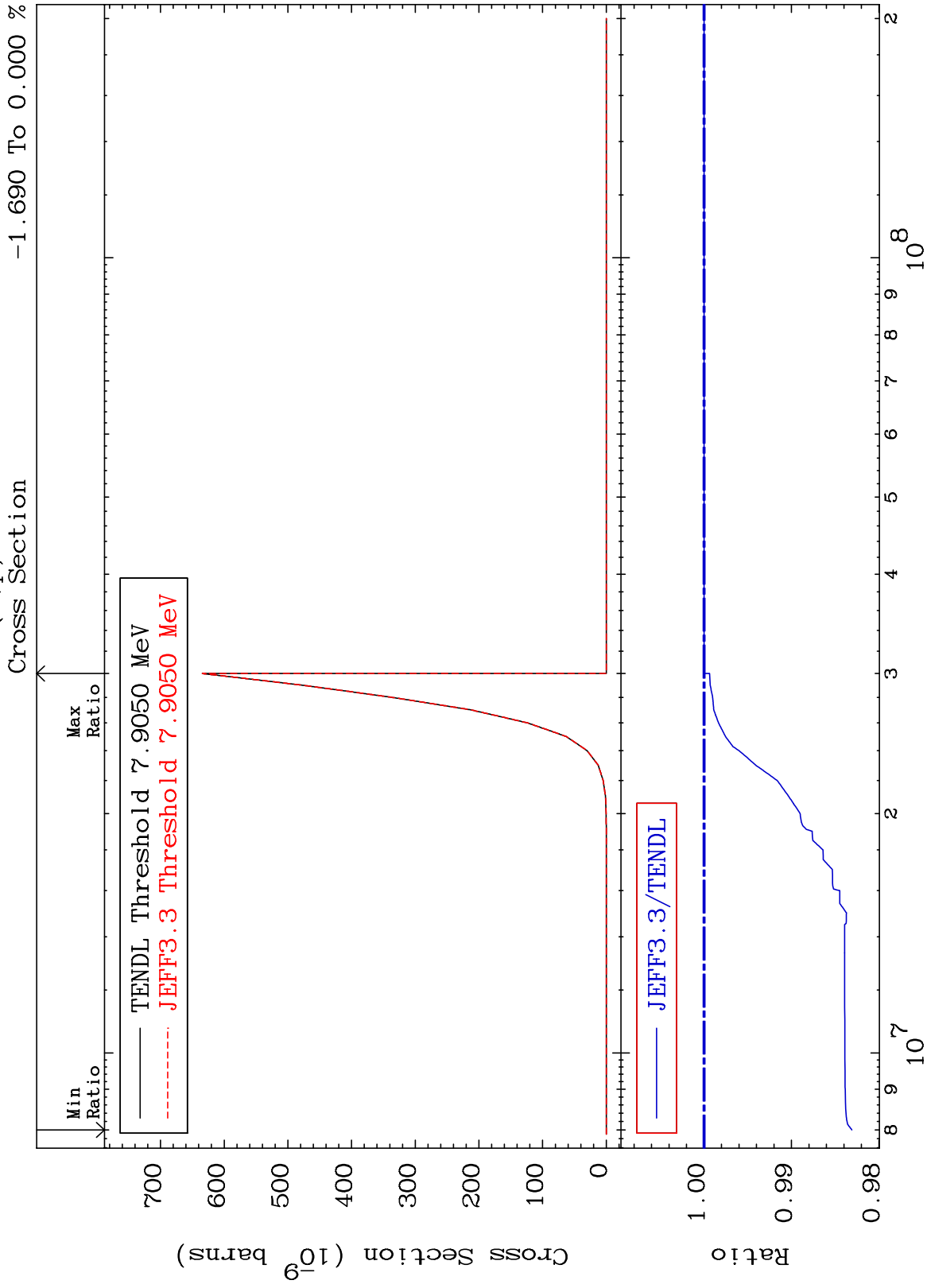
84-Po-208

MAT 8431

(n,p) t

84-Po-208

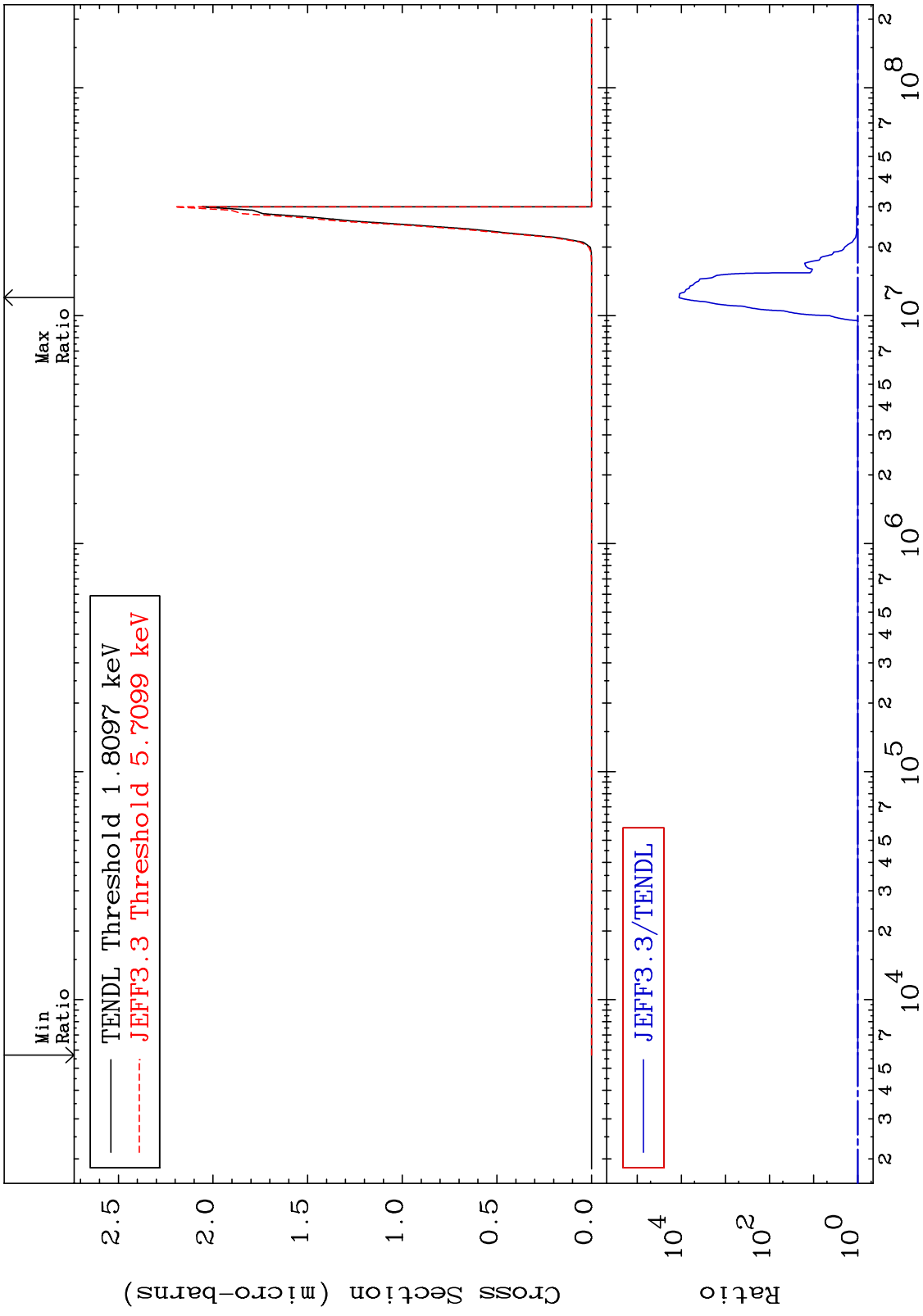
-1.690 To 0.000 %



62

Incident Energy (eV)

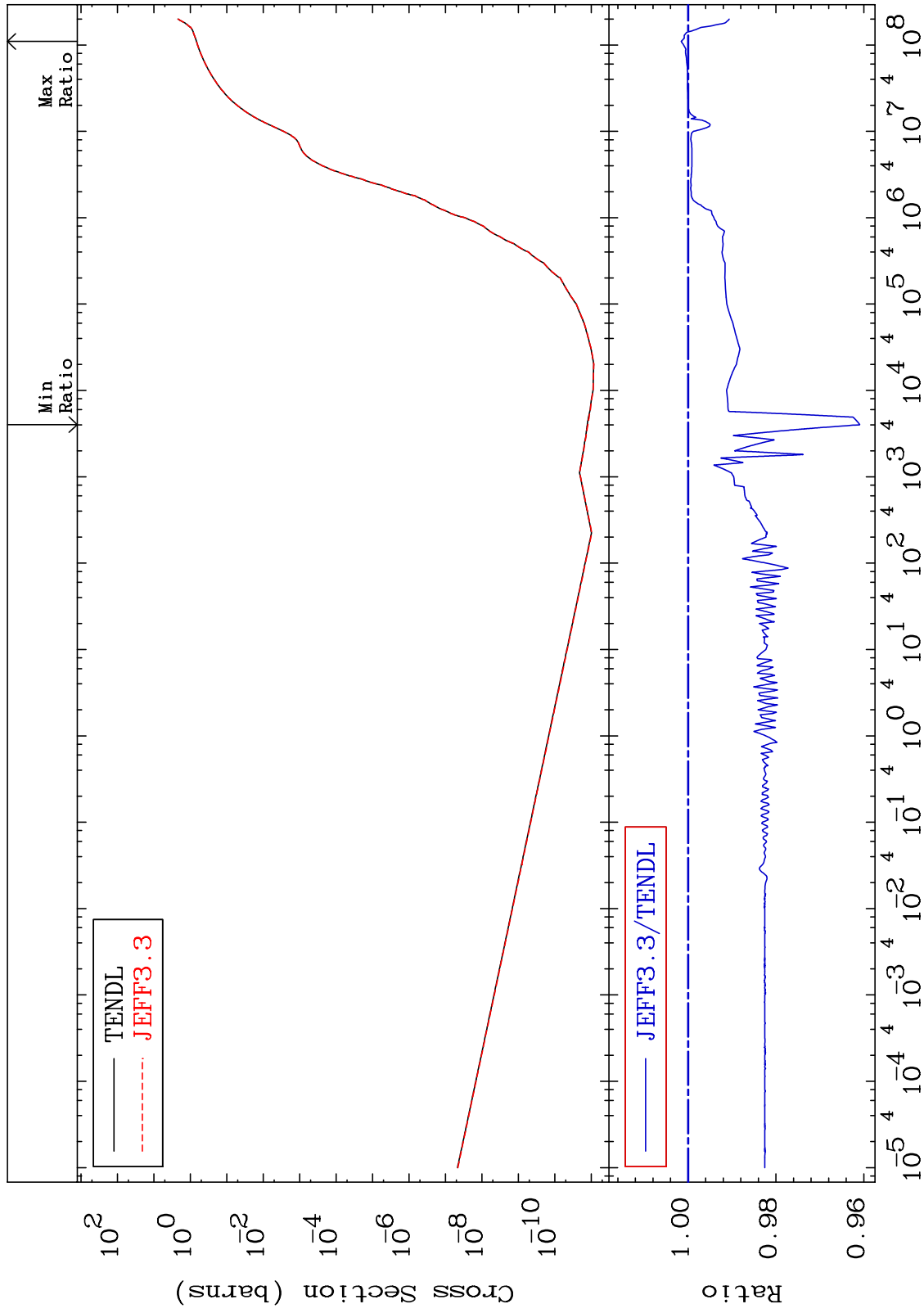
84-Po-208



MAT 8431

Hydrogen Production
Cross Section

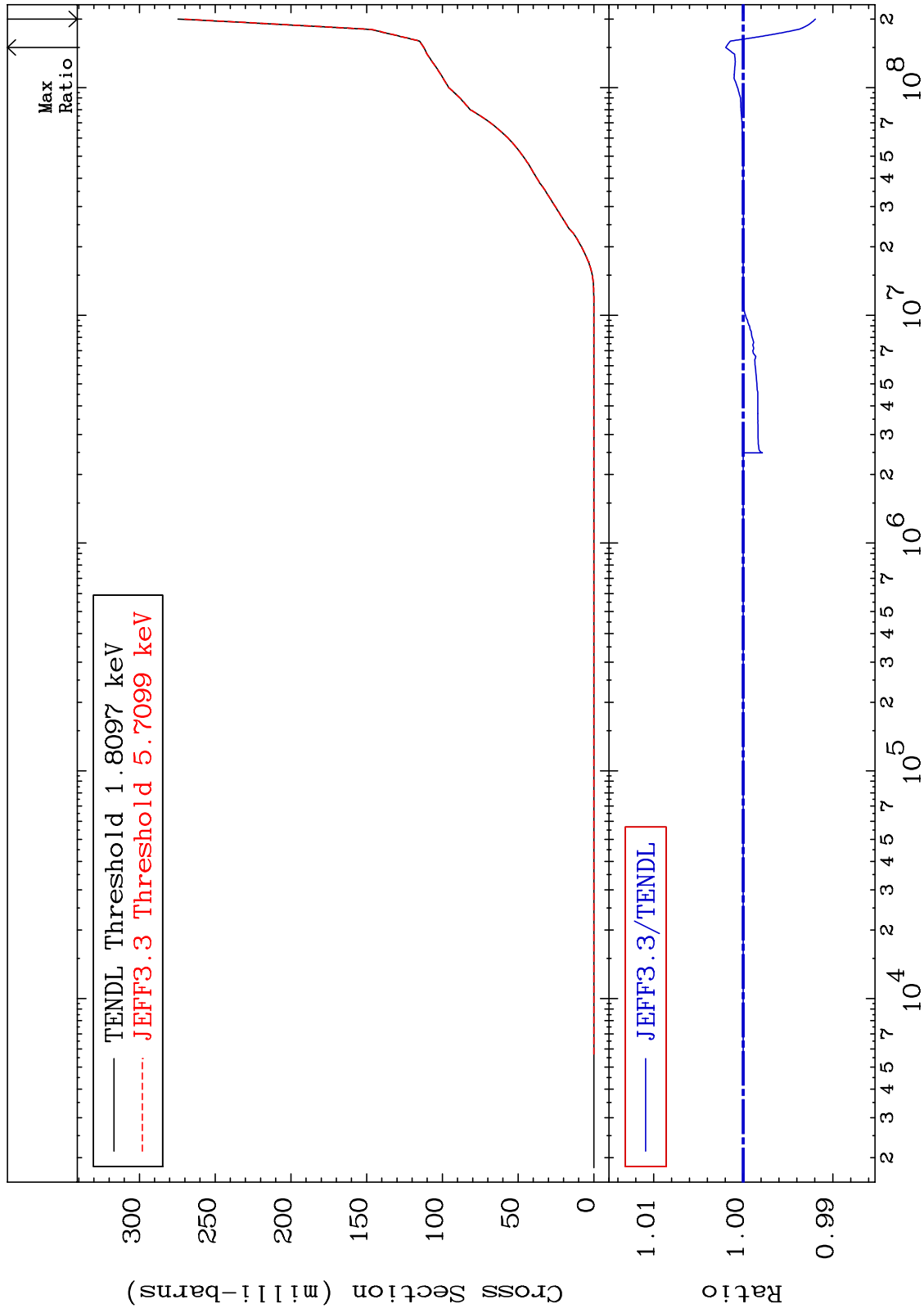
84-Po-208
-3.907 To 0.156 %



MAT 8431

Deuterium Production
Cross Section

84-Po-208
-0.806 To 0.197 %



65

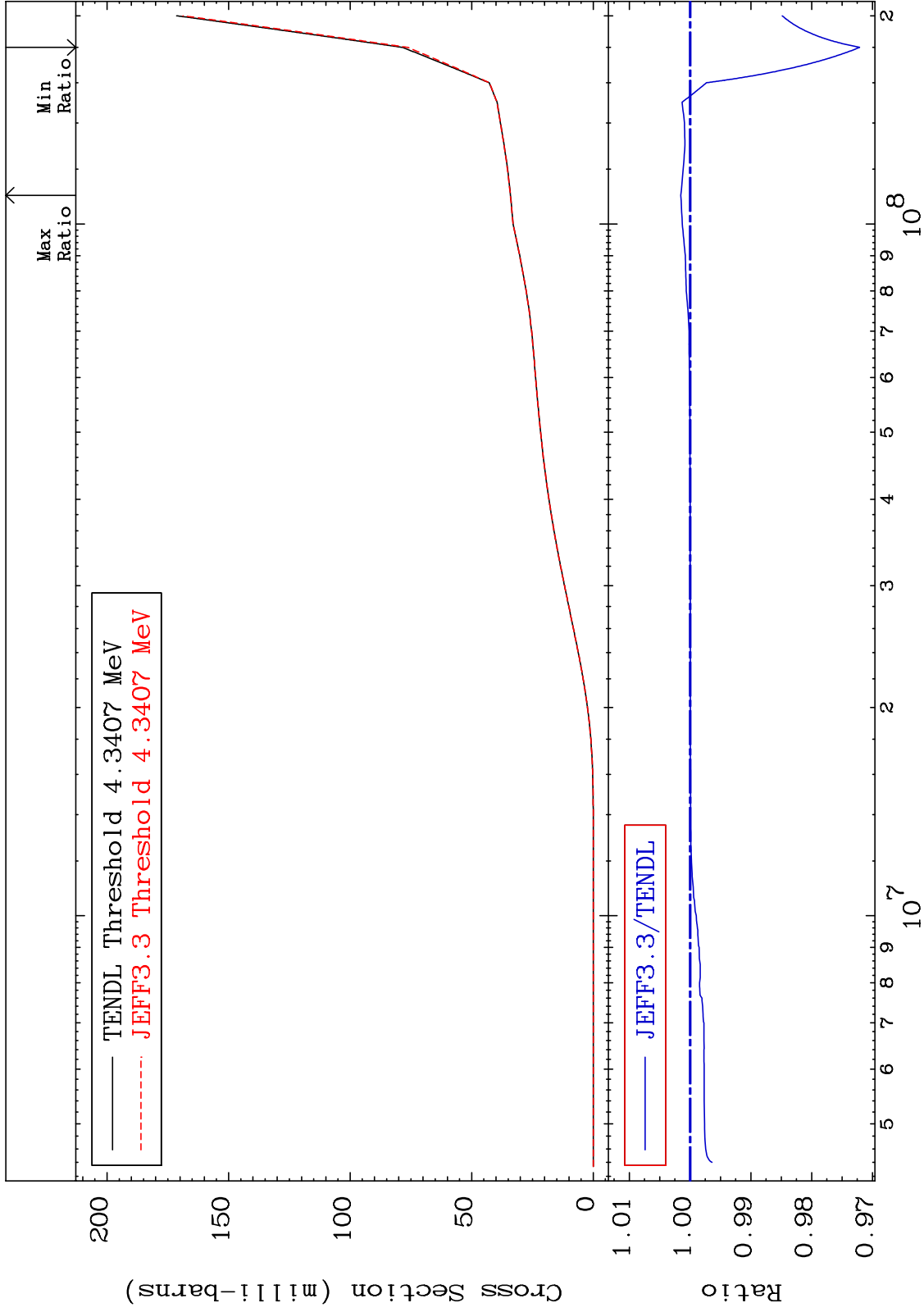
Incident Energy (eV)

84-Po-208

MAT 8431

Tritium Production
Cross Section

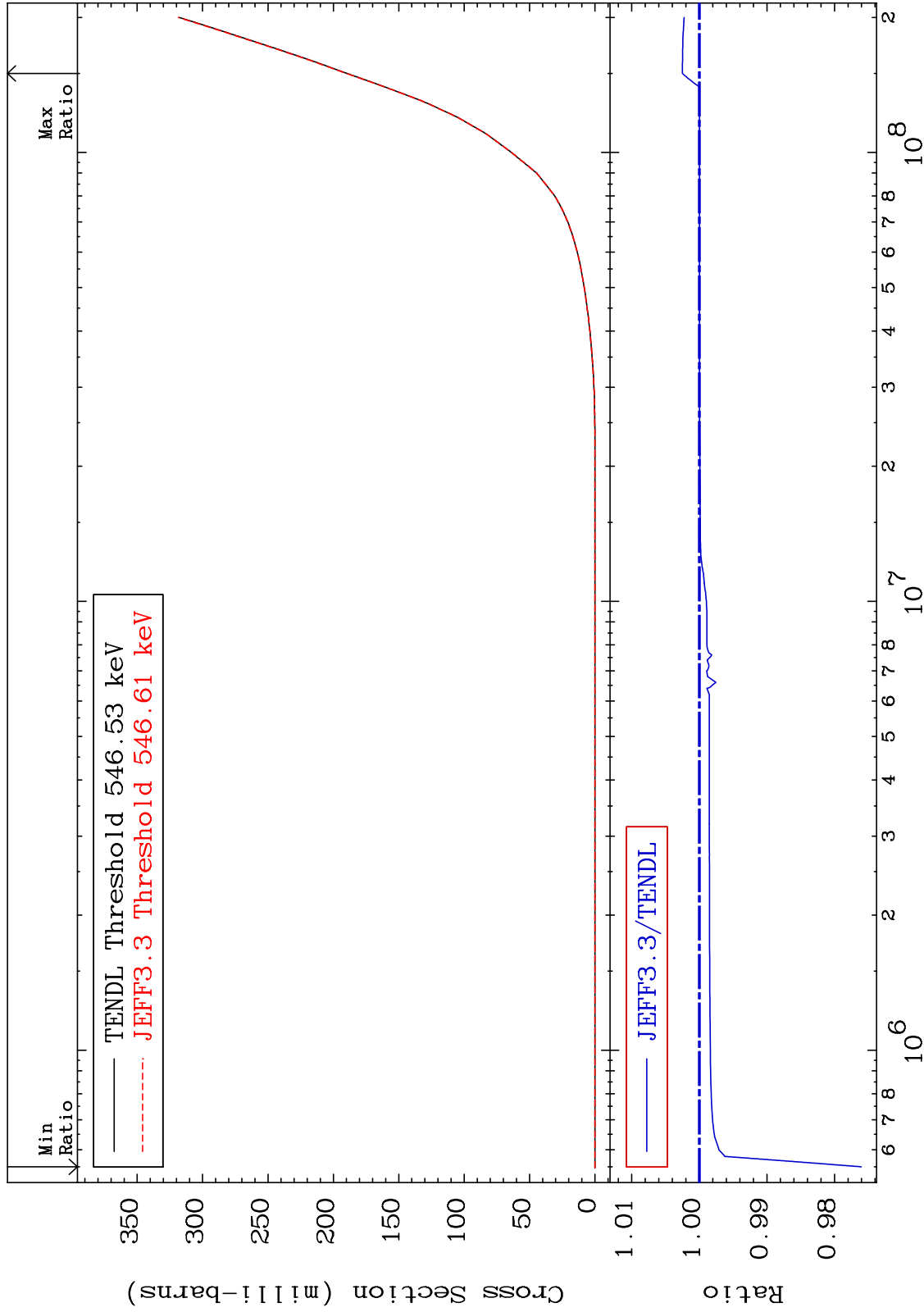
84-Po-208
-2.789 To 0.153 %



MAT 8431

He-3 Production
Cross Section

84-Po-208
-2.396 To 0.250 %



67

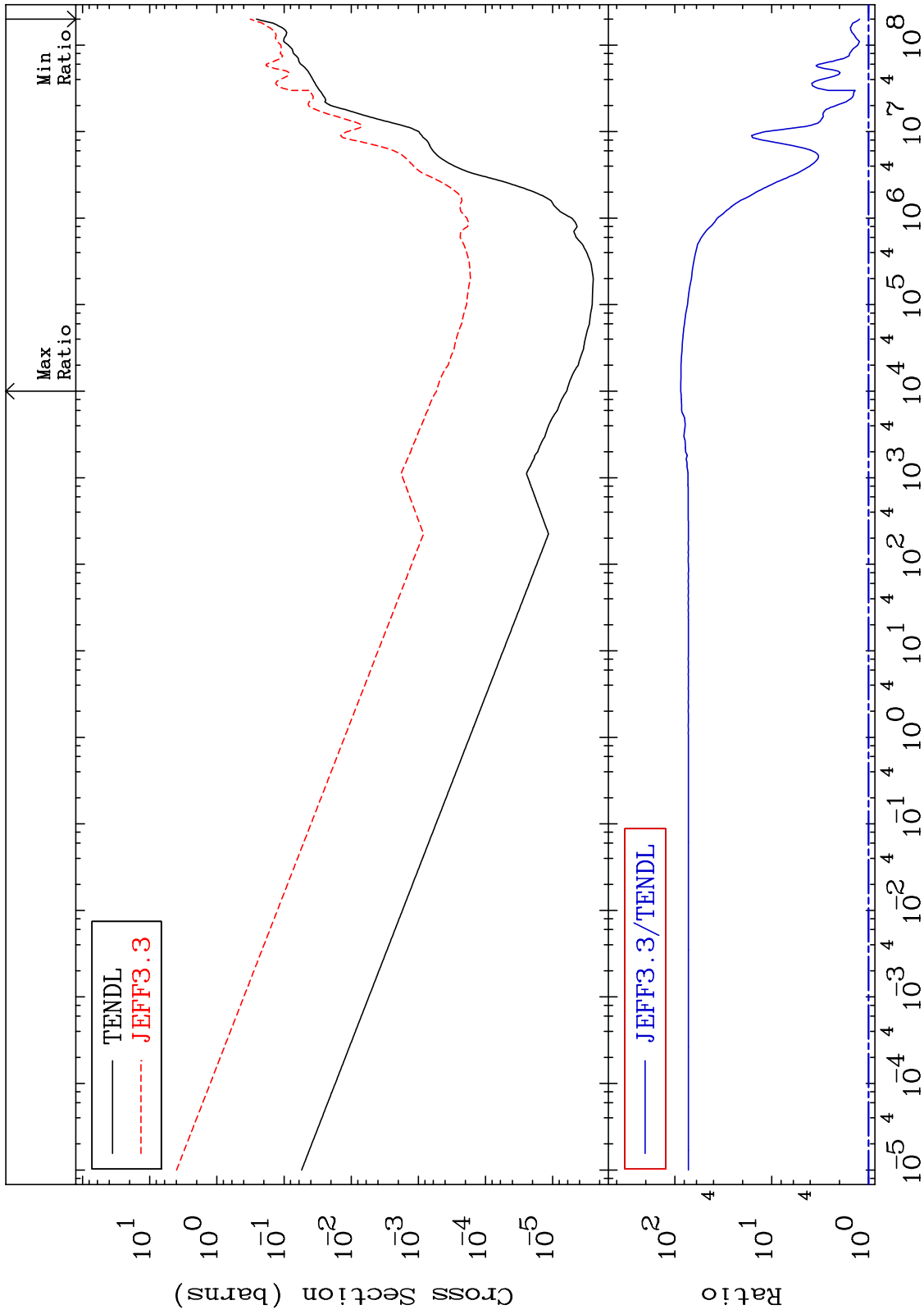
Incident Energy (eV)

84-Po-208

MAT 8431

He-4 Production
Cross Section

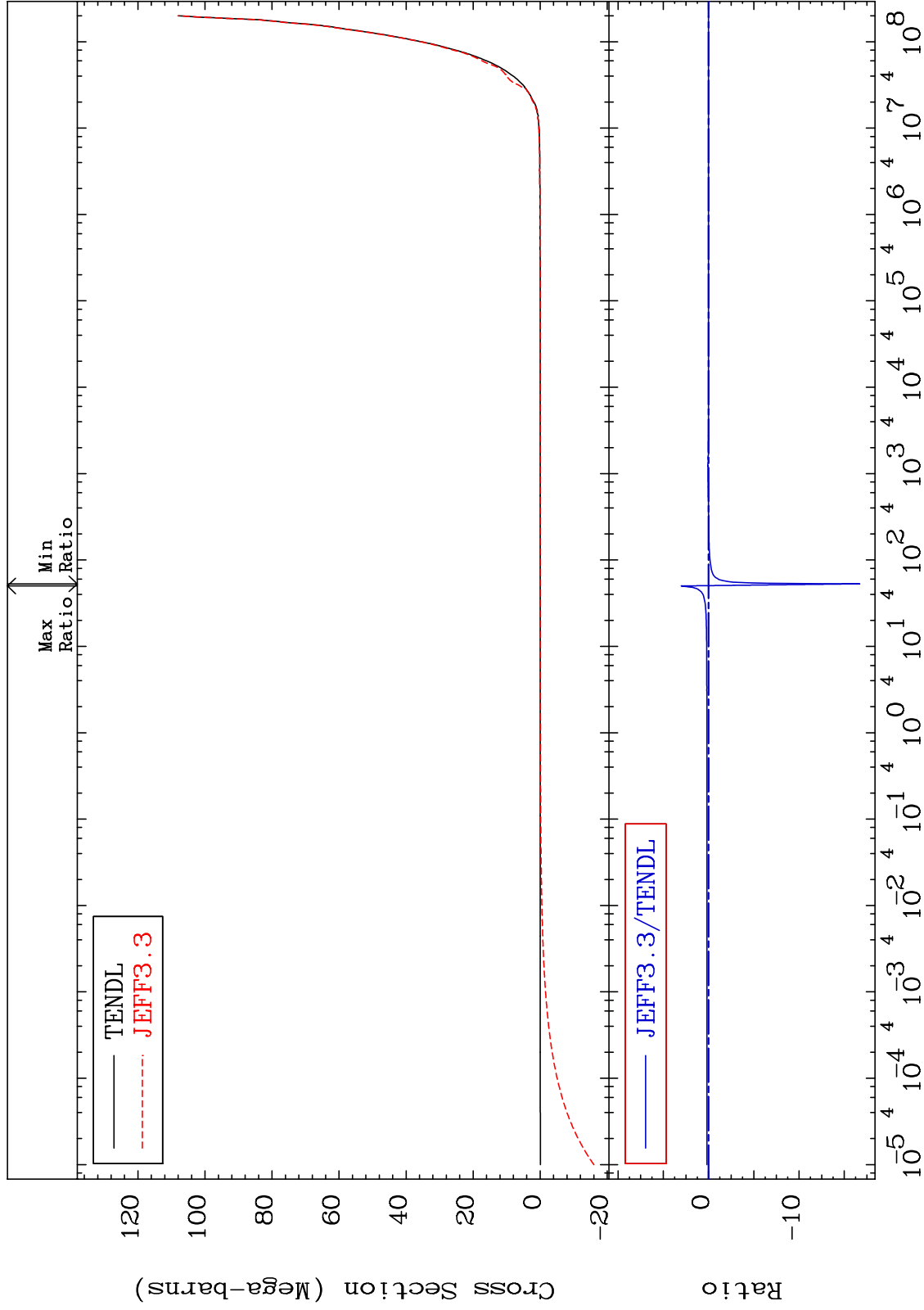
84-Po-208
23.69 To 8596. %



MAT 8431

Kerma total (eV-barns)
Cross Section

84-Po-208
-9999. To 9999. %



69

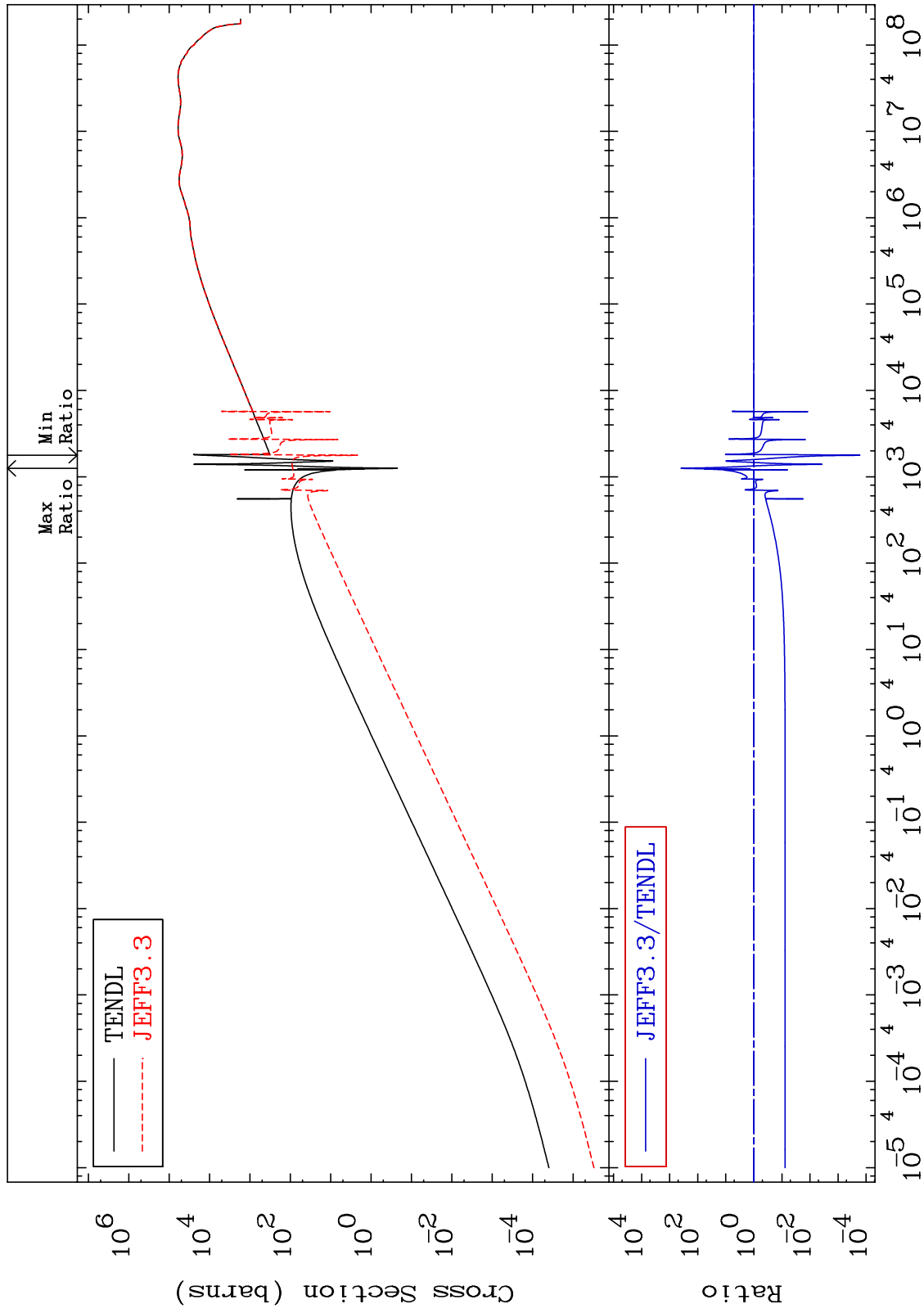
Incident Energy (eV)

84-Po-208

MAT 8431

Kerma elastic
Cross Section

84-Po-208
-99.98 To 9999. %



70

Incident Energy (eV)

84-Po-208

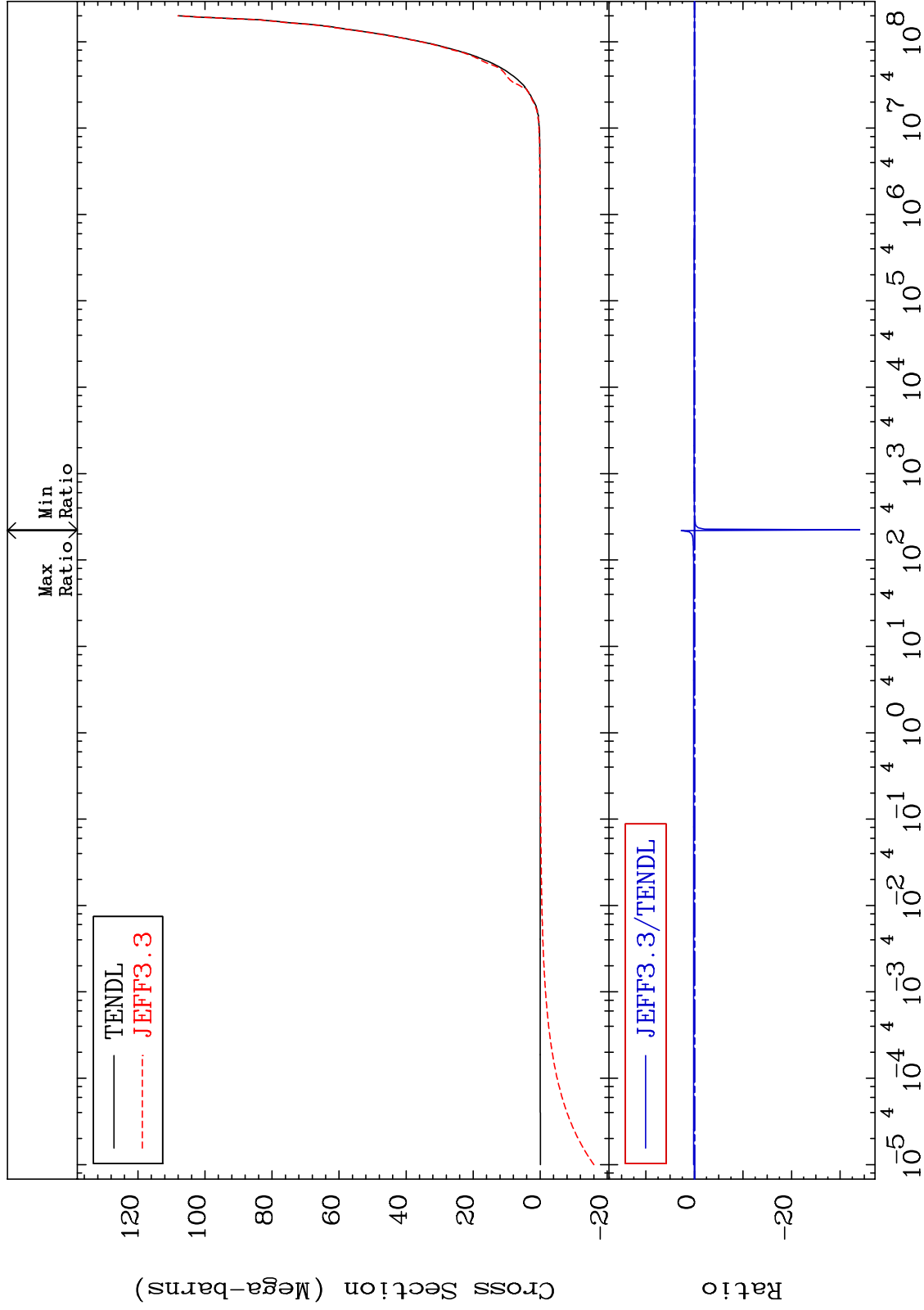
MAT 8431

Kerma non-elastic (all but mt.2)

84-Po-208

-9999. To 9999. %

Cross Section



71

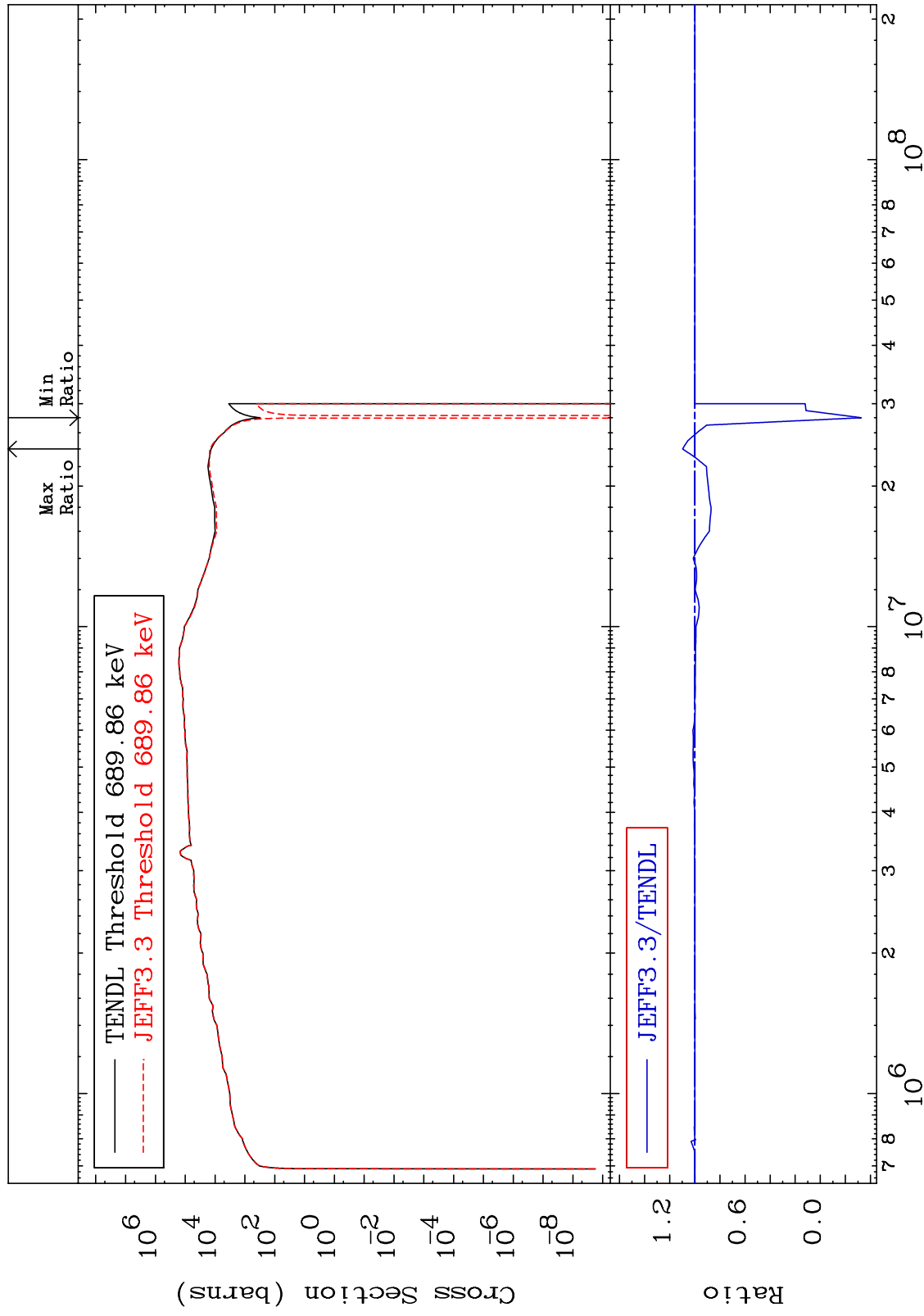
Incident Energy (eV)

84-Po-208

MAT 8431

Kerma inelastic (mt51-91)
Cross Section

84-Po-208
-132.7 To 9.636 %



72

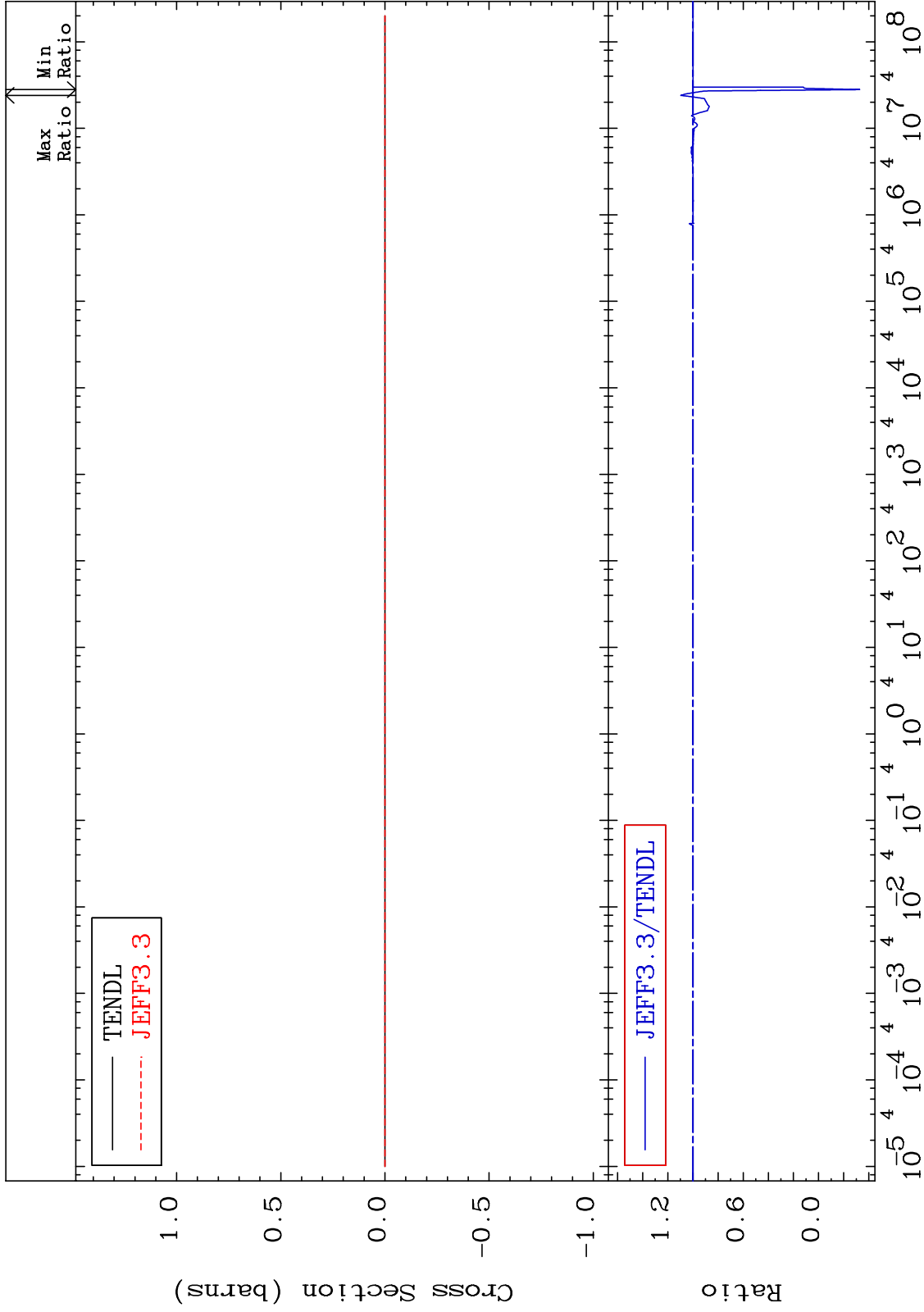
Incident Energy (eV)

84-Po-208

MAT 8431

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

84-Po-208
-132.7 To 9.636 %



73

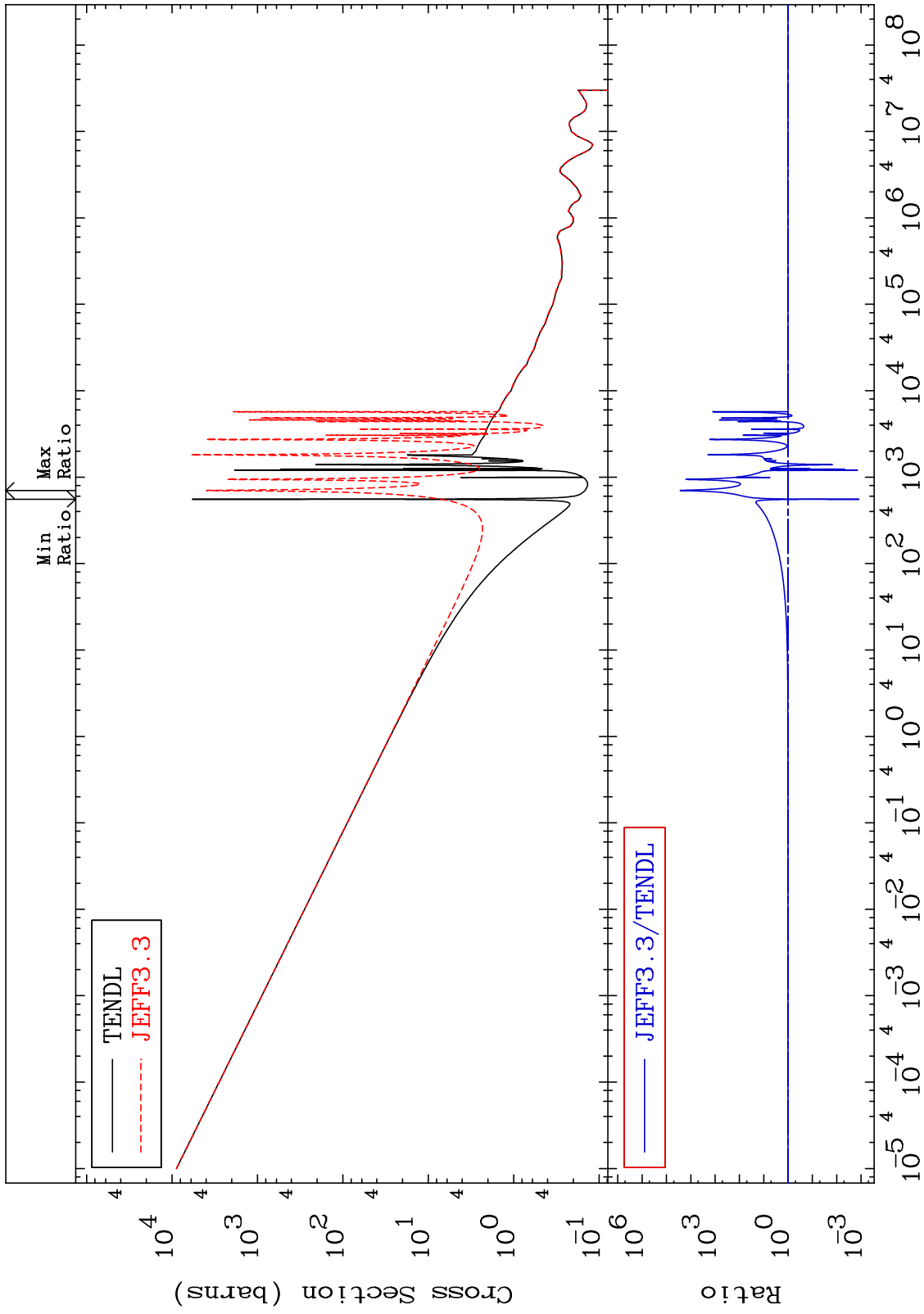
Incident Energy (eV)

84-Po-208

MAT 8431

Kerma capture (mt102)
Cross Section

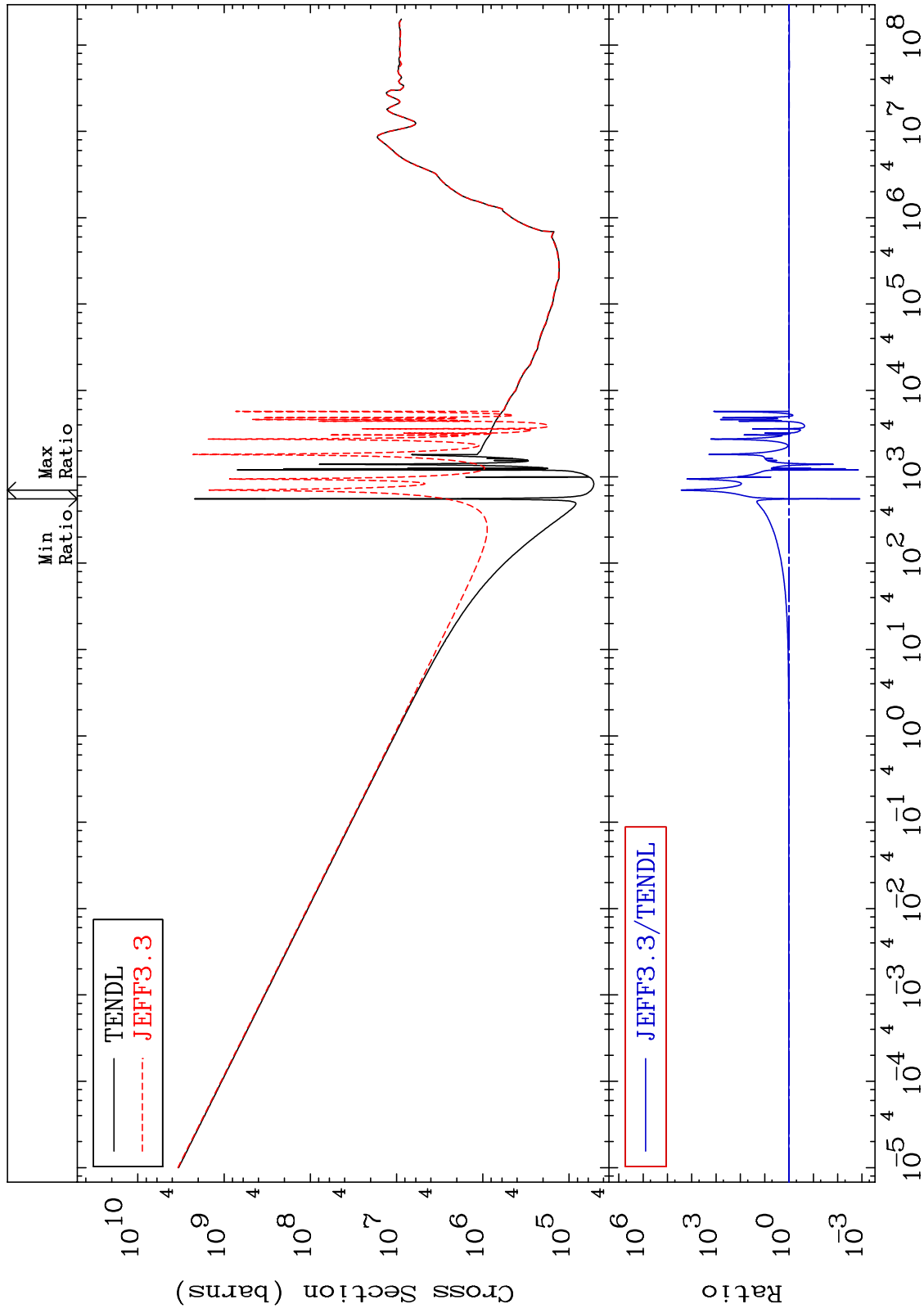
84-Po-208
-99.88 To 9999. %



MAT 8431

Total photon (eV-barns)
Cross Section

84-Po-208
-99.88 To 9999. %

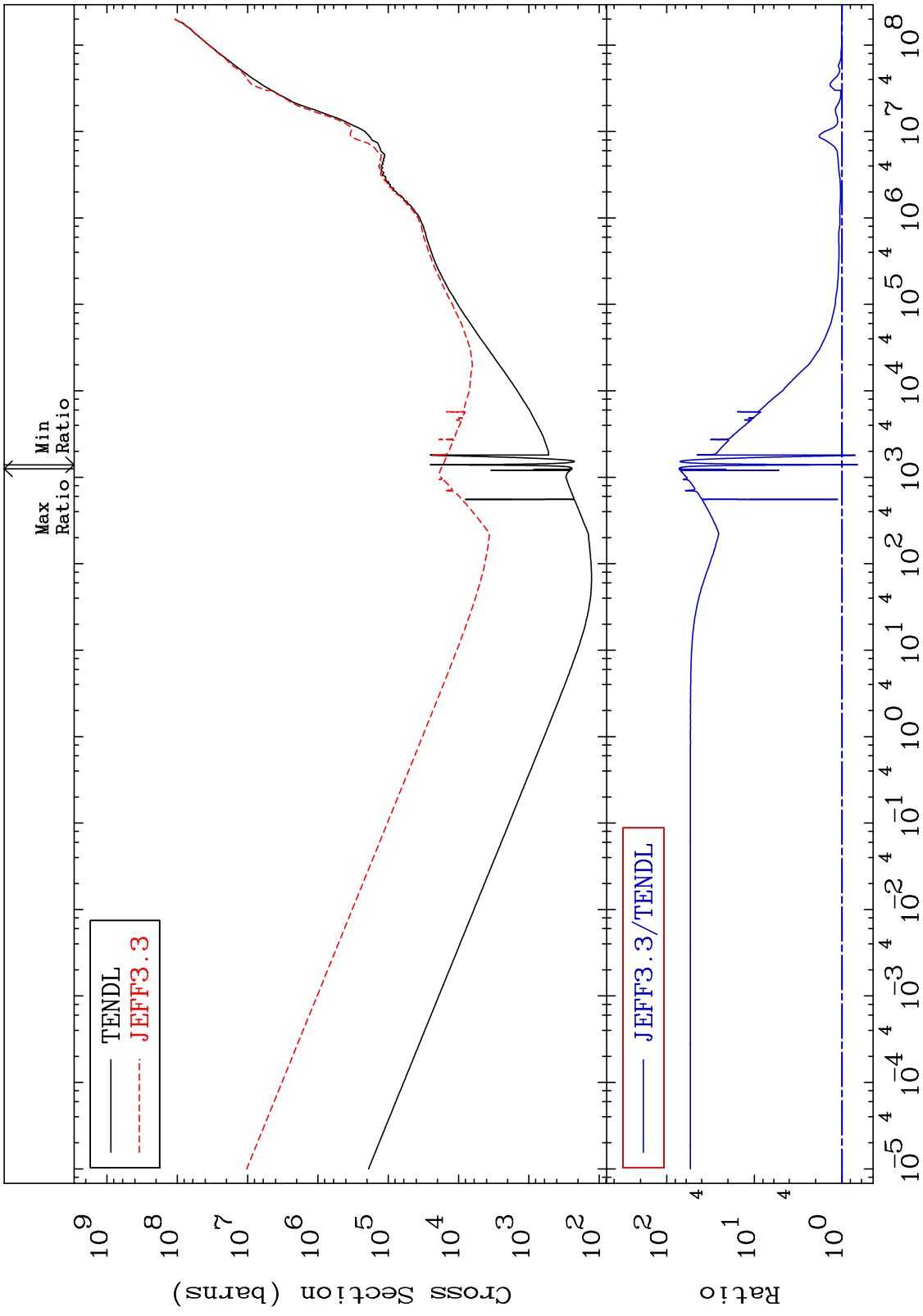


75

Incident Energy (eV)

84-Po-208

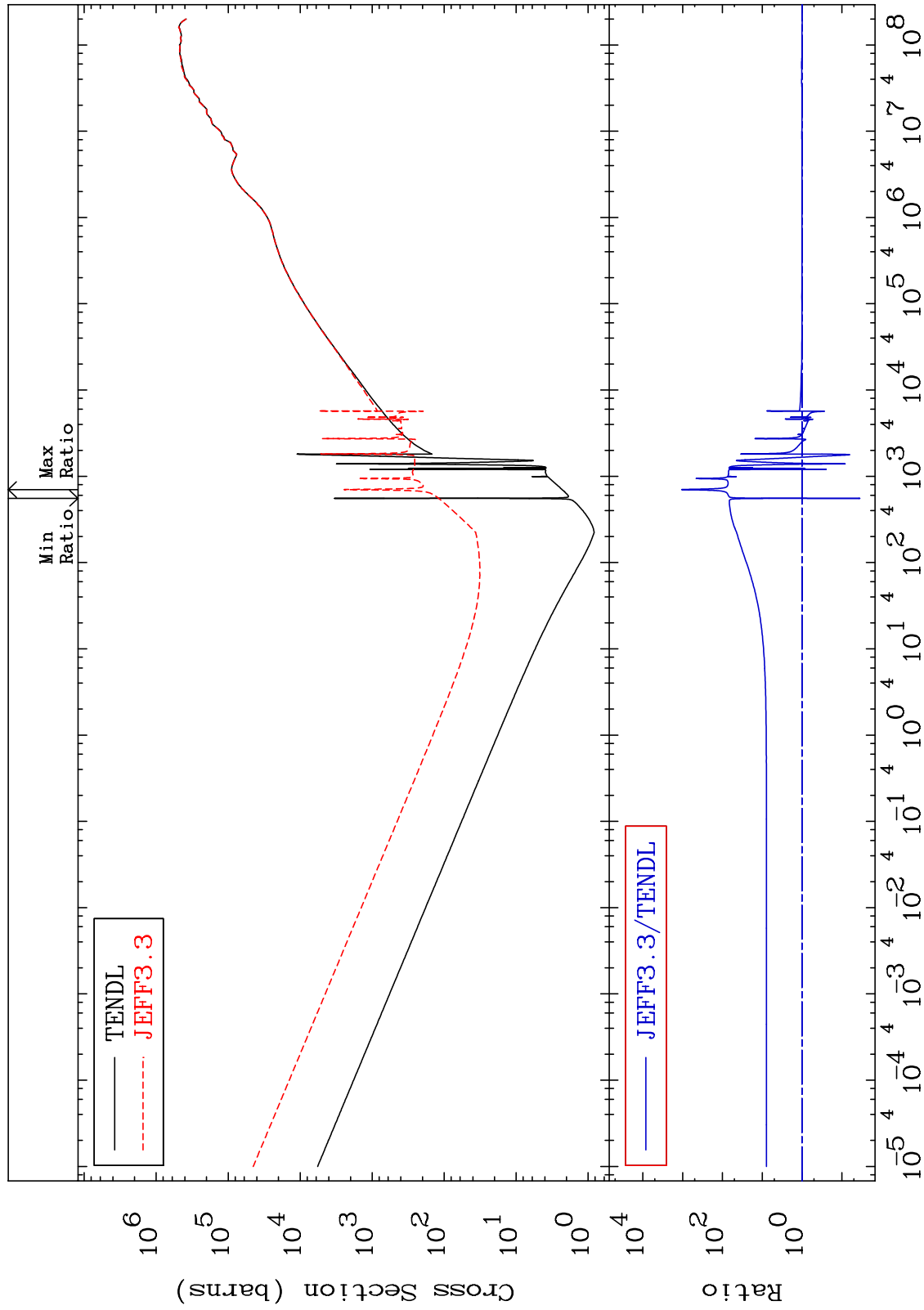
MAT 8431 Total kinematic kerma (high limit) 84-Po-208
 Cross Section -34.10 To 7151. %



MAT 8431

Dpa total (eV-barns)
Cross Section

84-Po-208
-96.45 To 9999. %



77

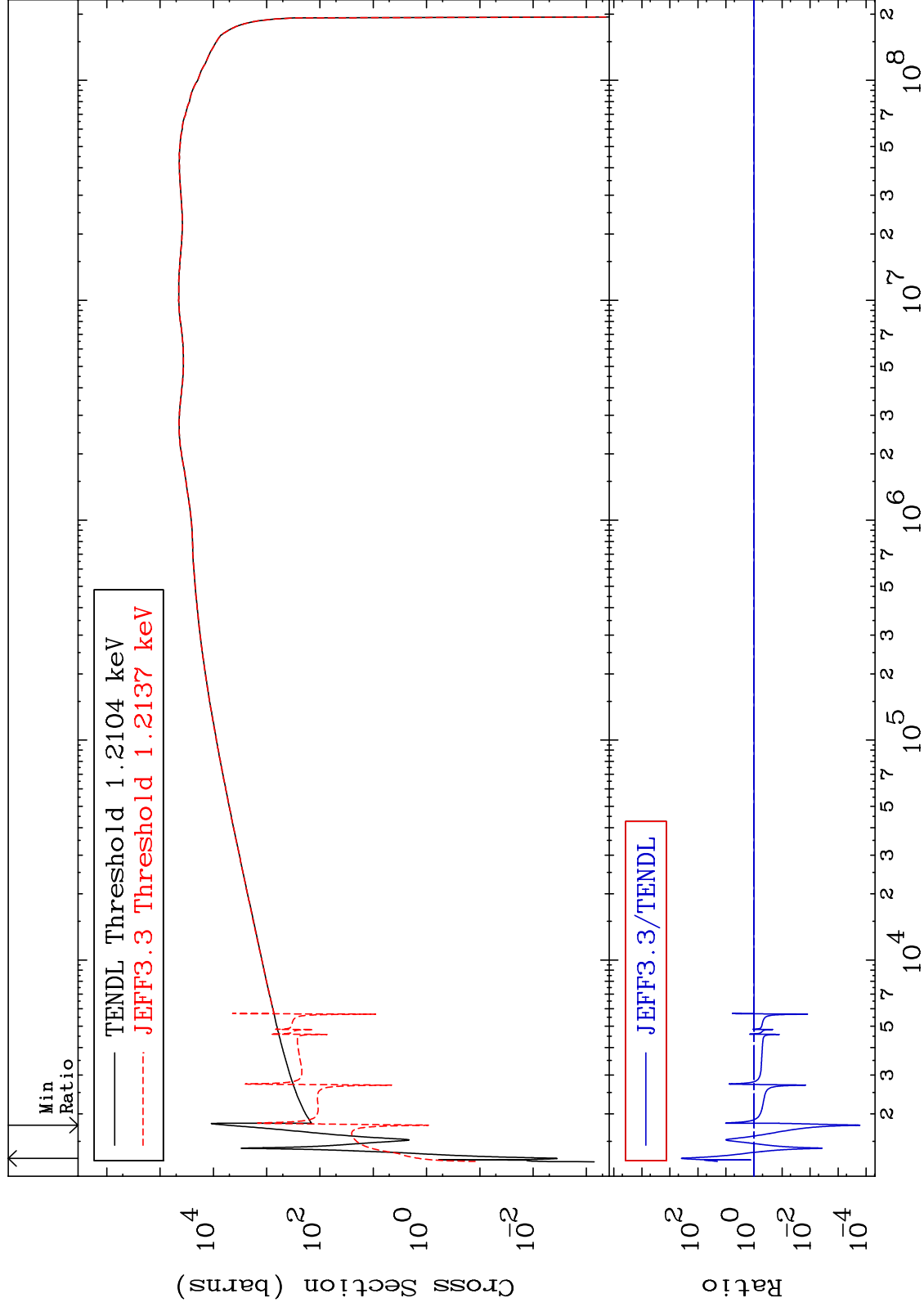
Incident Energy (eV)

84-Po-208

MAT 8431

Dpa elastic (mt2)
Cross Section

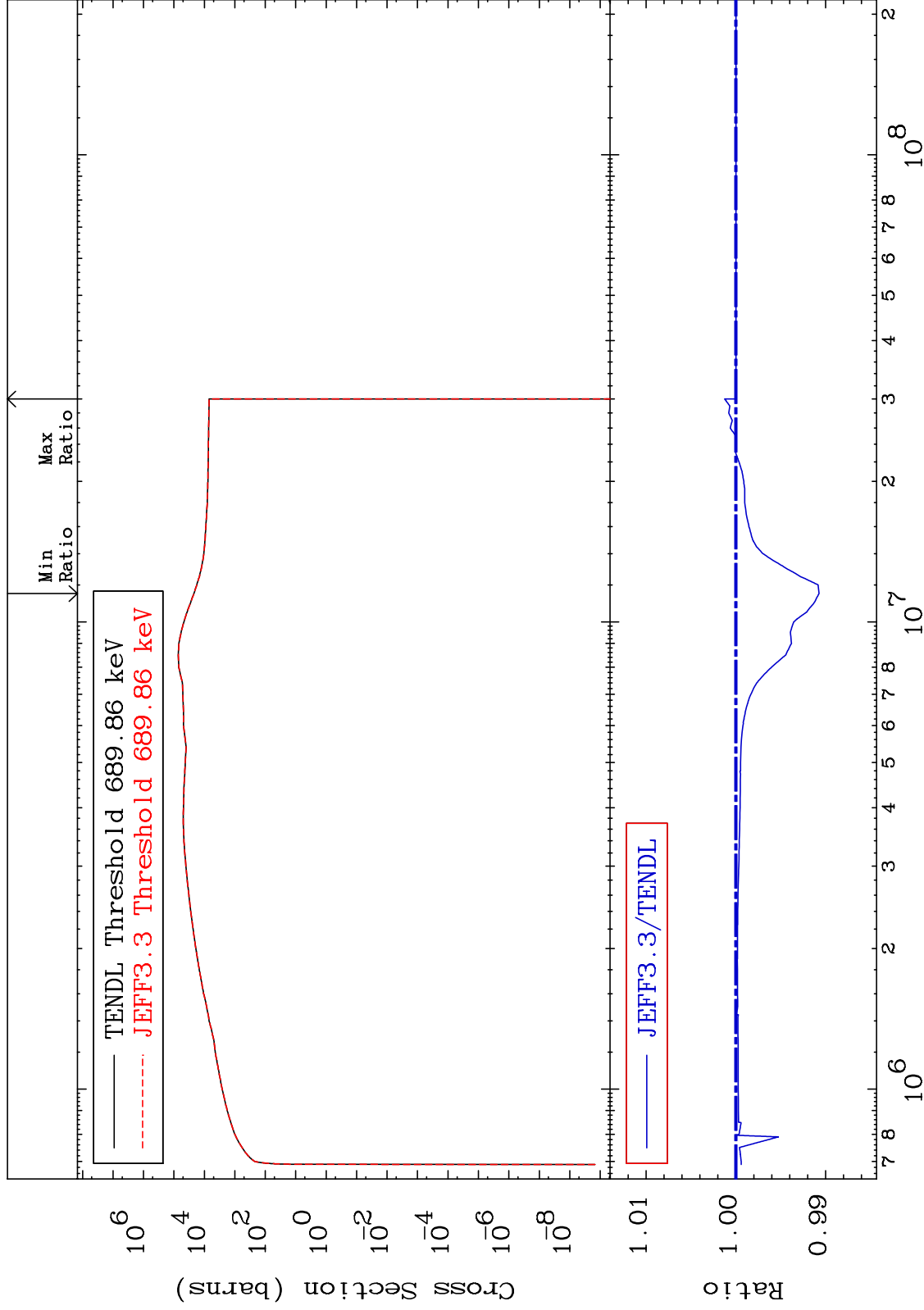
84-Po-208
-99.98 To 9999. %



MAT 8431

Dpa inelastic (mt51-91)
Cross Section

84-Po-208
-0.927 To 0.124 %



79

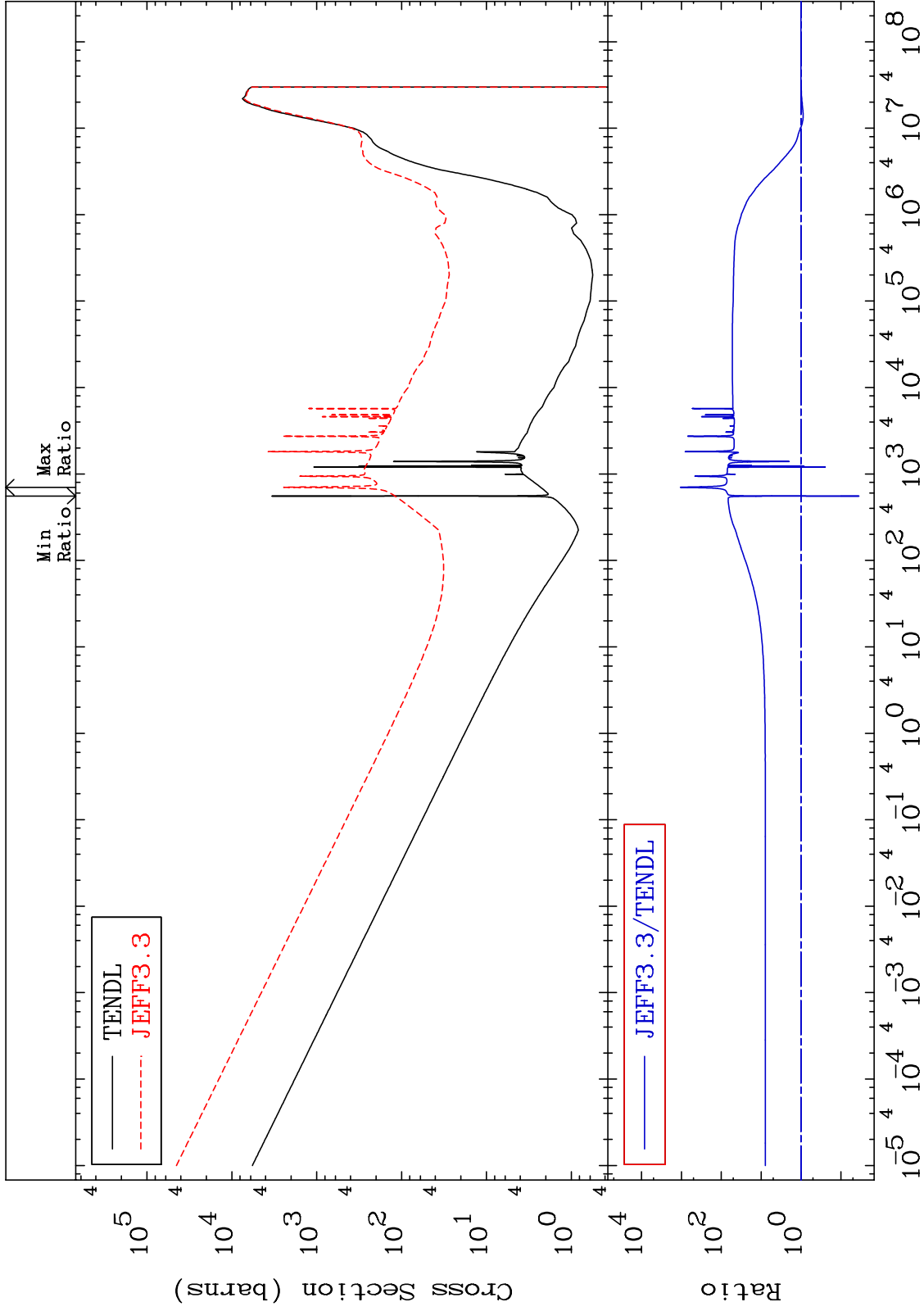
Incident Energy (eV)

84-Po-208

MAT 8431

Dpa disappearance (mt102 -120)
Cross Section

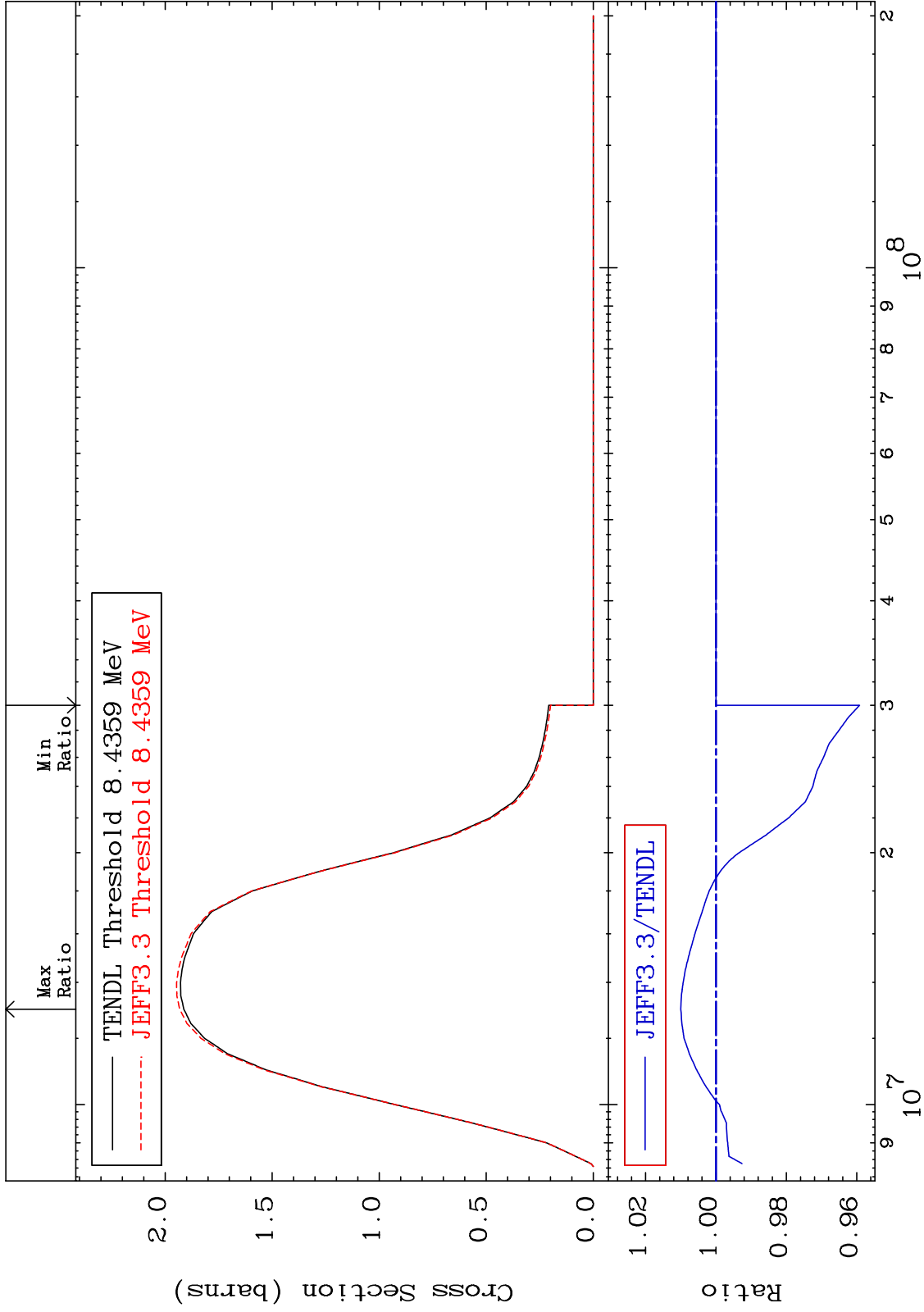
84-Po-208
-96.45 To 9999. %



MAT 8431

(n,2n):84-Po-207g
Radionuclide Production Cross Section -4.082 To 1.001 %

84-Po-208



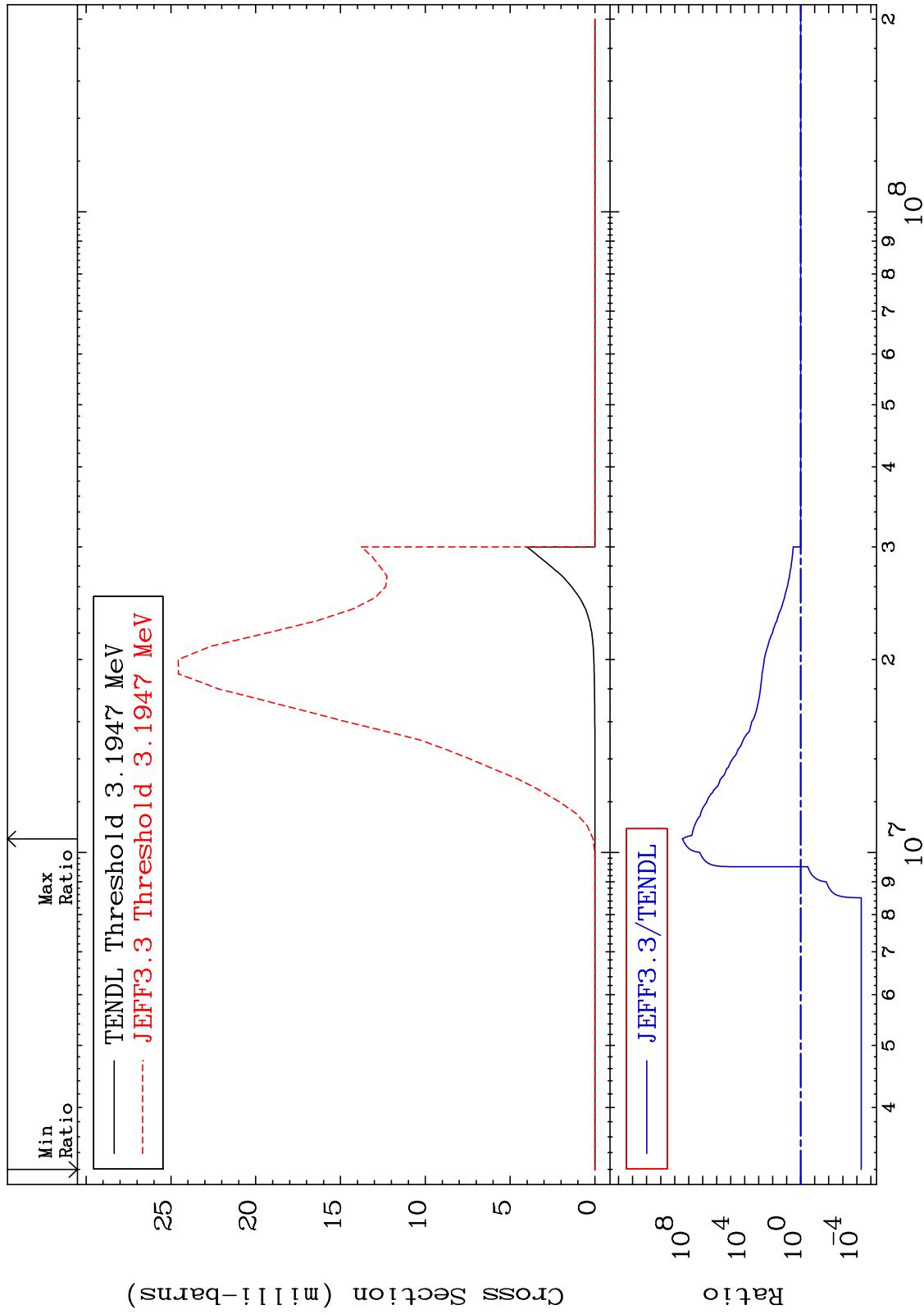
81

Incident Energy (eV)

84-Po-208

MAT 8431

(n,2n) α :82-Pb-203g 84-Po-208
Radionuclide Production Cross Section -100.0 To 9999. %



82

Incident Energy (eV)

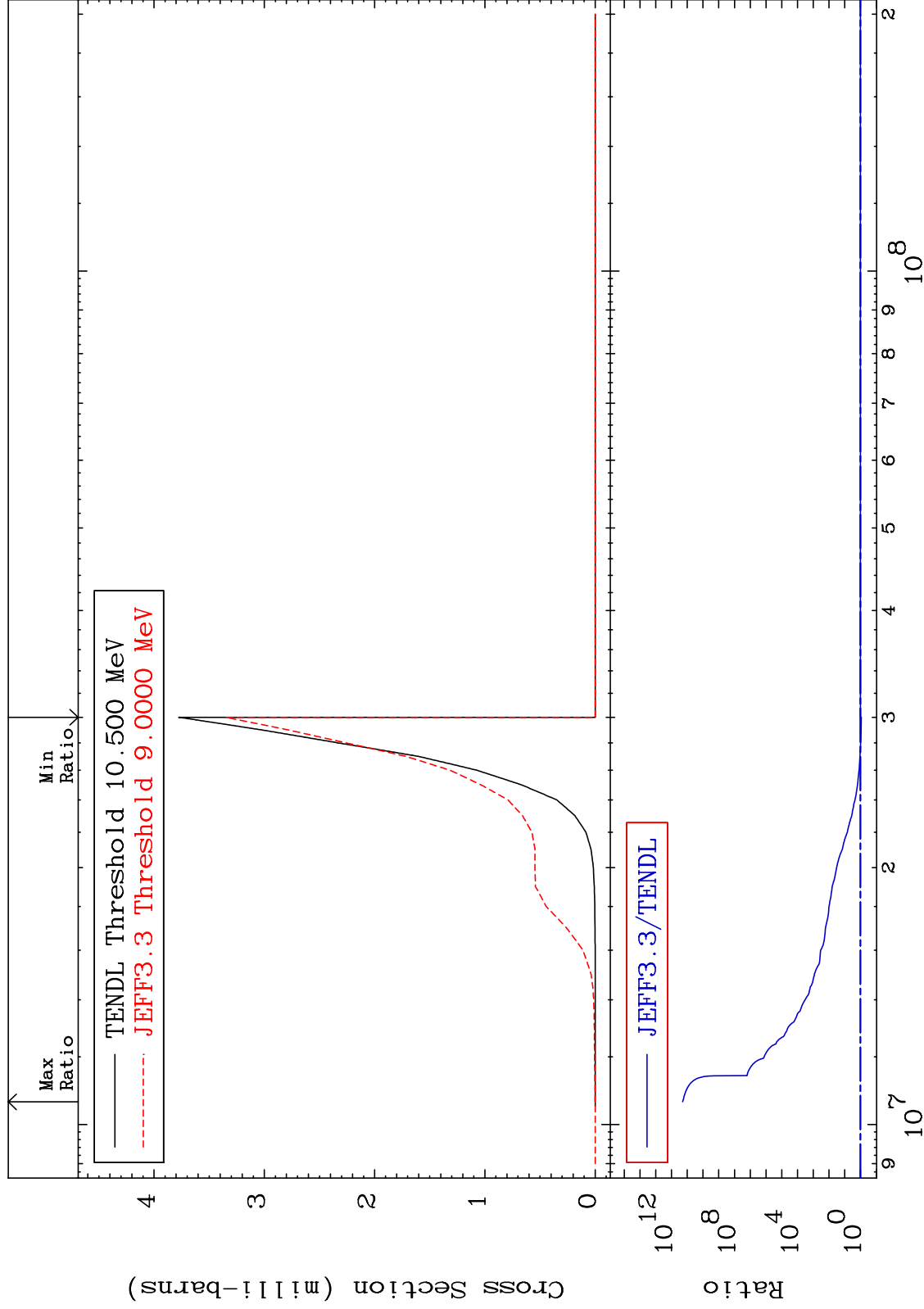
84-Po-208

MAT 8431

(n,2n) α : 82-Pb-203m6

84-Po-208

Radionuclide Production Cross Section -11.25 To 9999. %



83

Incident Energy (eV)

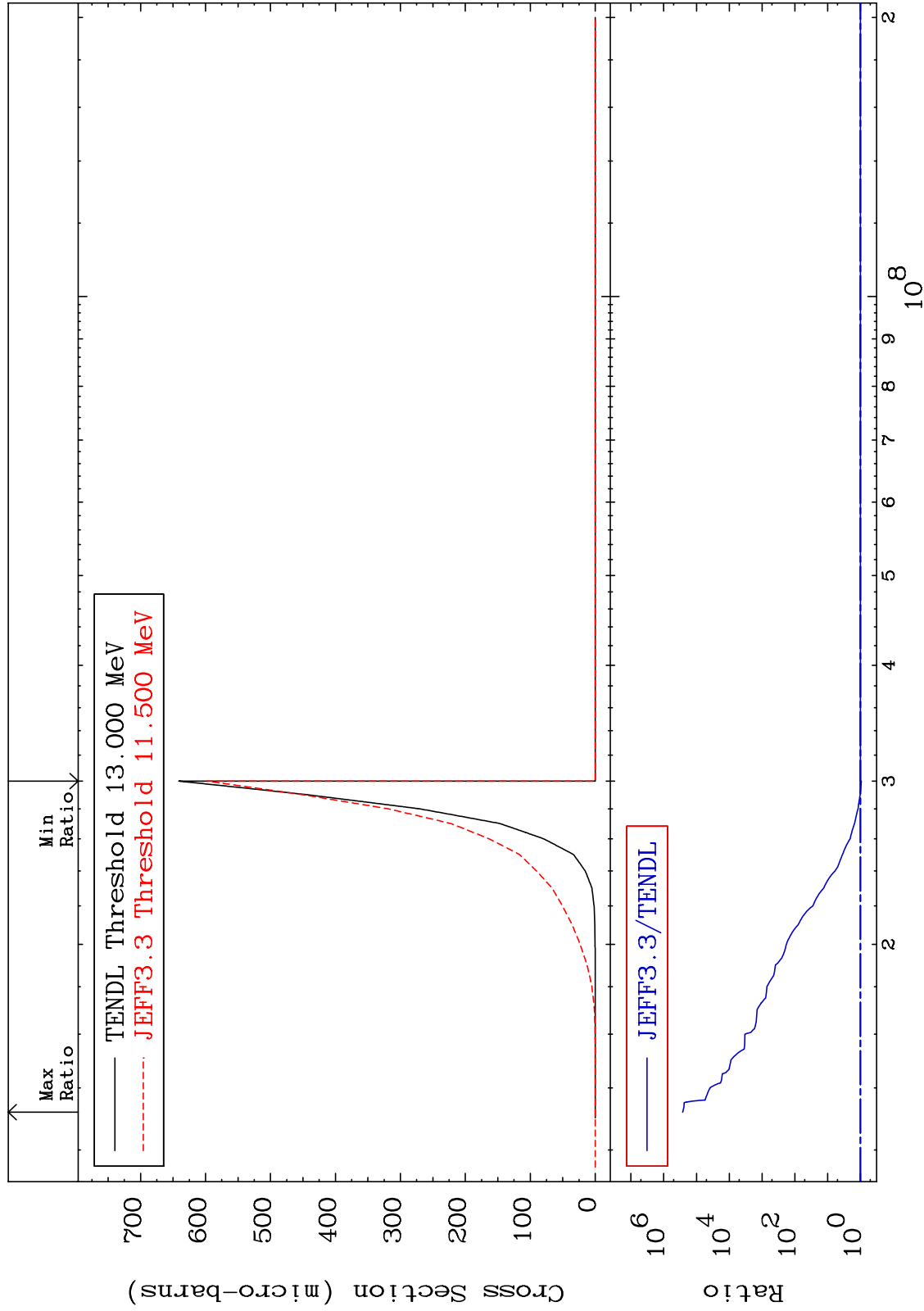
84-Po-208

MAT 8431

(n,2n) α :82-Pb-203m10

84-Po-208

Radionuclide Production Cross Section -6.732 To 9999. %



84

Incident Energy (eV)

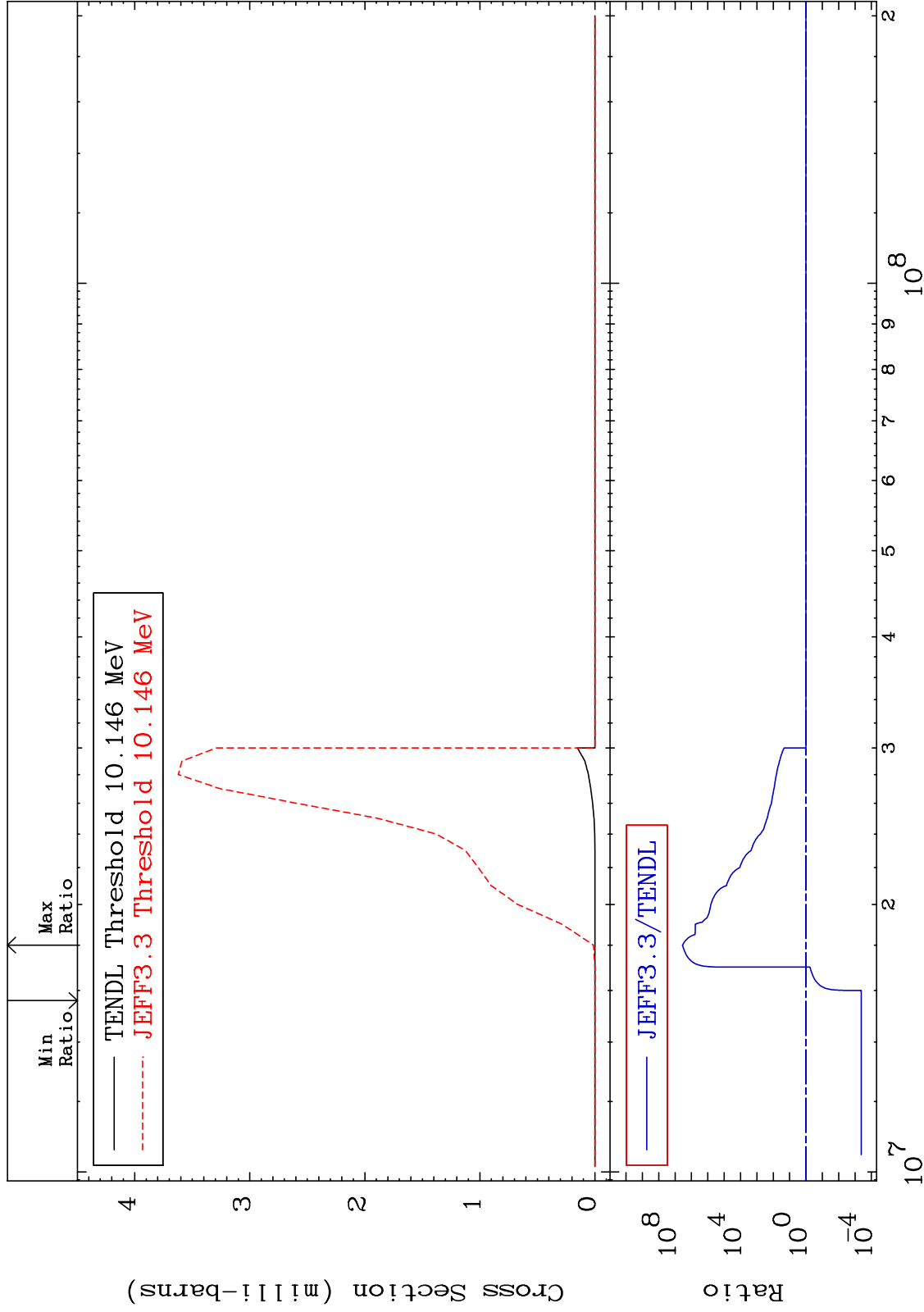
84-Po-208

MAT 8431

(n,3n) α :82-Pb-202g

84-Po-208

Radionuclide Production Cross Section -99.96 To 9999. %



85

Incident Energy (eV)

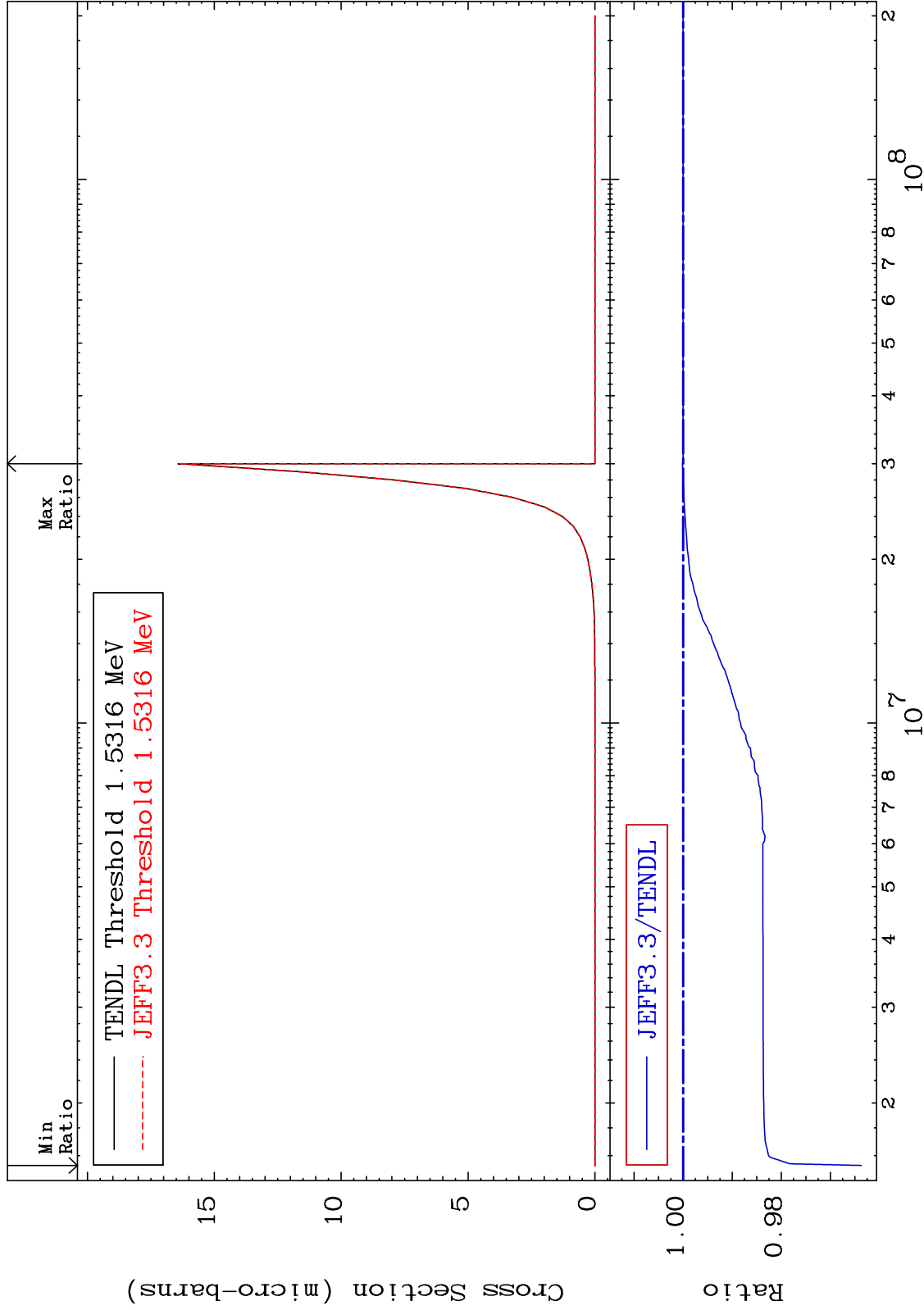
84-Po-208

MAT 8431

(n,2p):82-Pb-207g

84-Po-208

Radionuclide Production Cross Section -3.630 To 0.013 %



86

Incident Energy (eV)

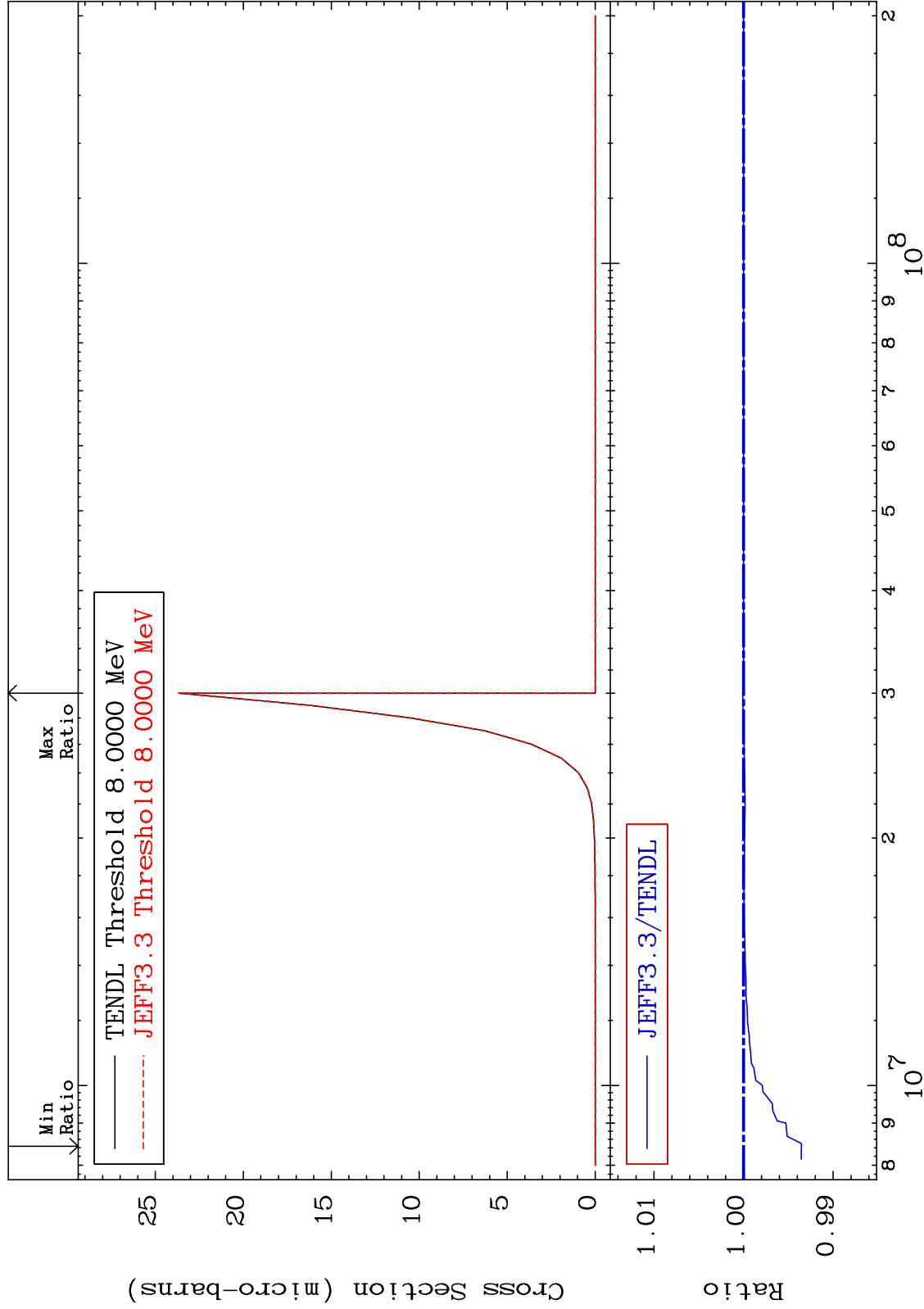
84-Po-208

MAT 8431

(n,2p) : 82-Pb-207m3

84-Po-208

Radionuclide Production Cross Section -0.645 To 0.009 %



87

Incident Energy (eV)

84-Po-208

MAT 8431

(n,2p) : 82-Pb-207m3

84-Po-208

Radionuclide Production Cross Section -0.645 To 0.009 %

