

Program Complot
(Version 2018-1)

by

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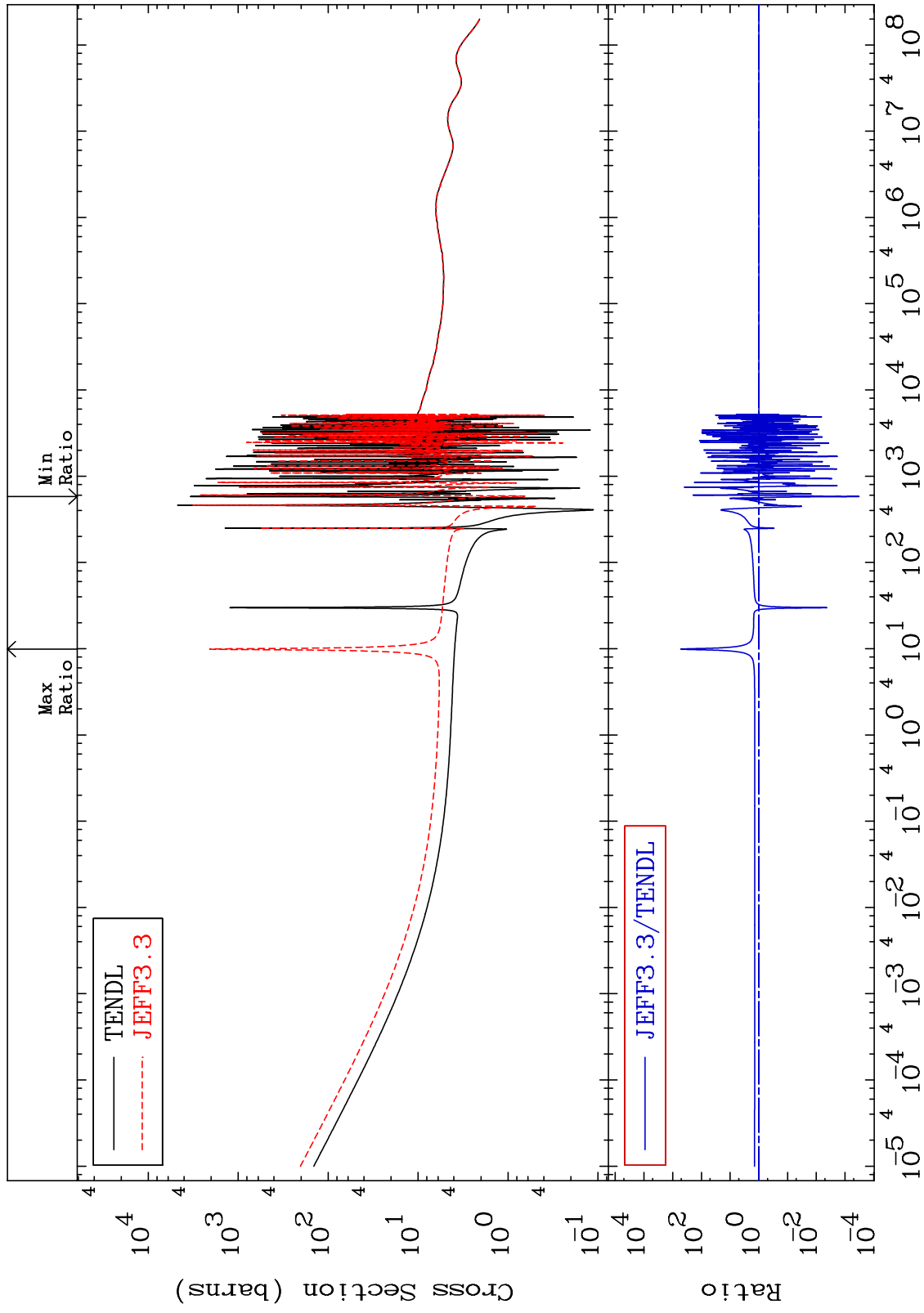
Press Mouse Button to Start

MAT 5431

Total
Cross Section

54-Xe-126

-99.97 To 9999. %



1

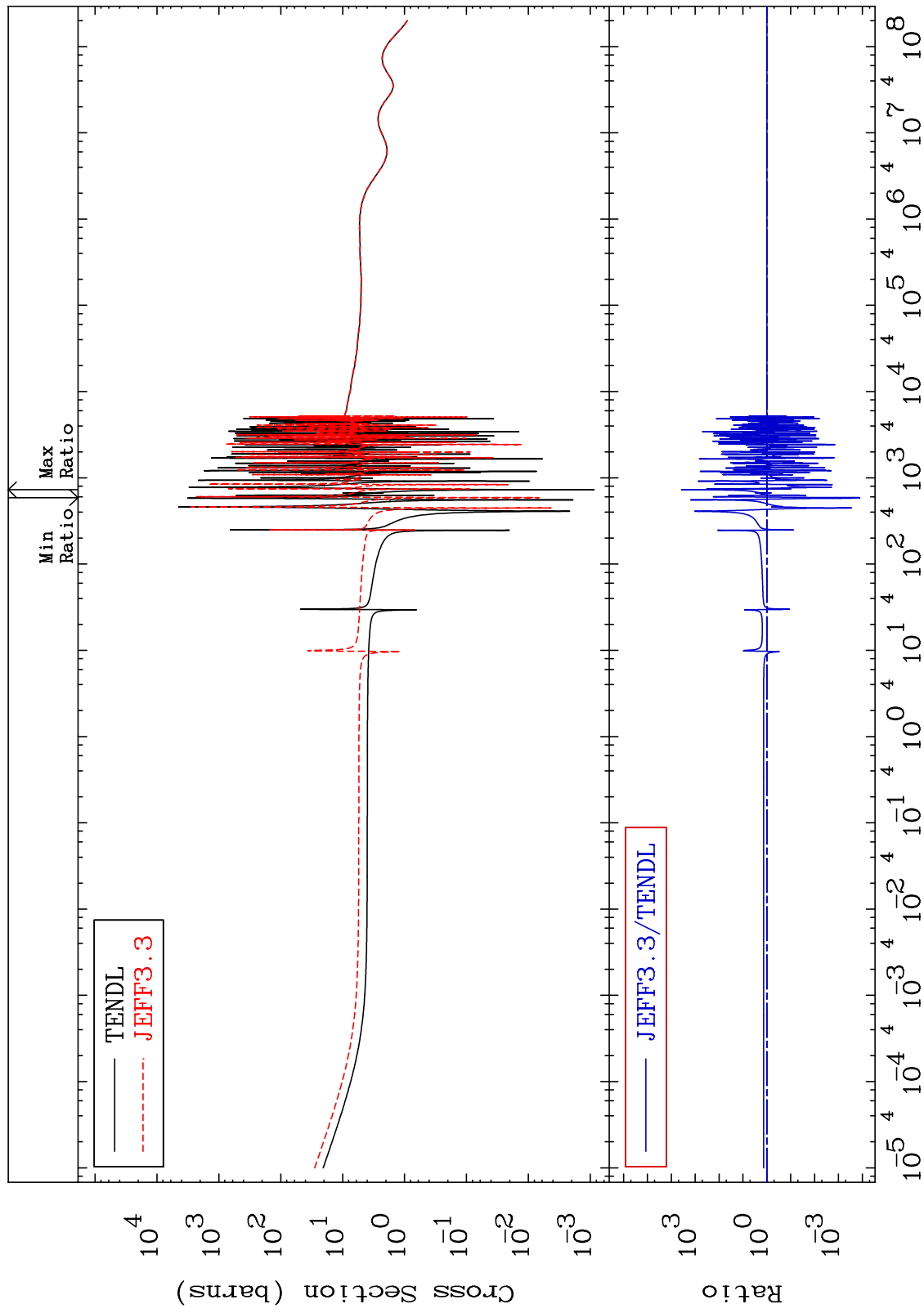
Incident Energy (eV)

54-Xe-126

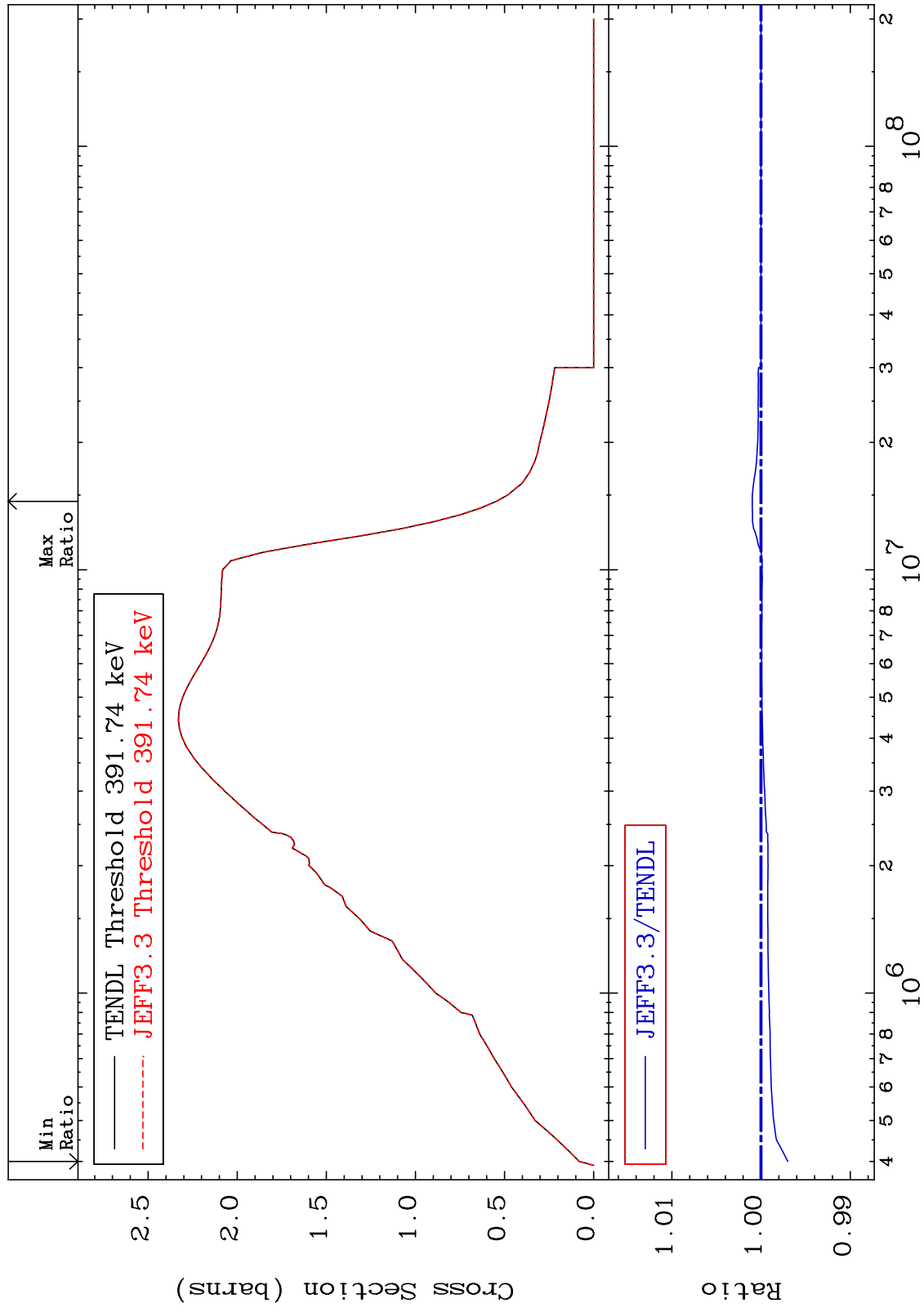
MAT 5431

Elastic
Cross Section

54-Xe-126
-99.99 To 9999. %

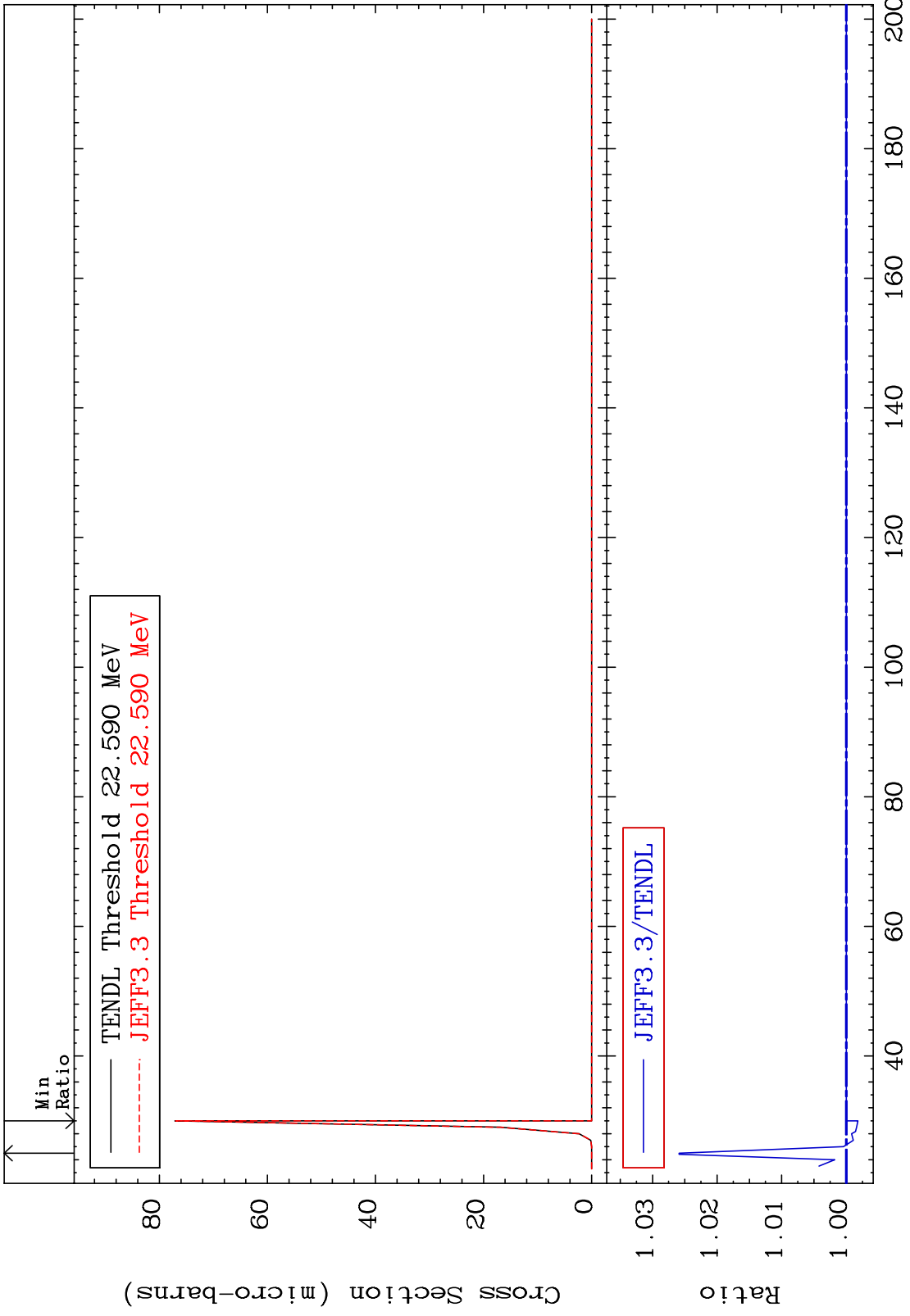


MAT 5431 Inelastic Cross Section 54-Xe-126 -0.299 To 0.099 %



3 Incident Energy (eV) 54-Xe-126

MAT 5431 (n,2n) d 54-Xe-126
Cross Section -0.181 To 2.588 %



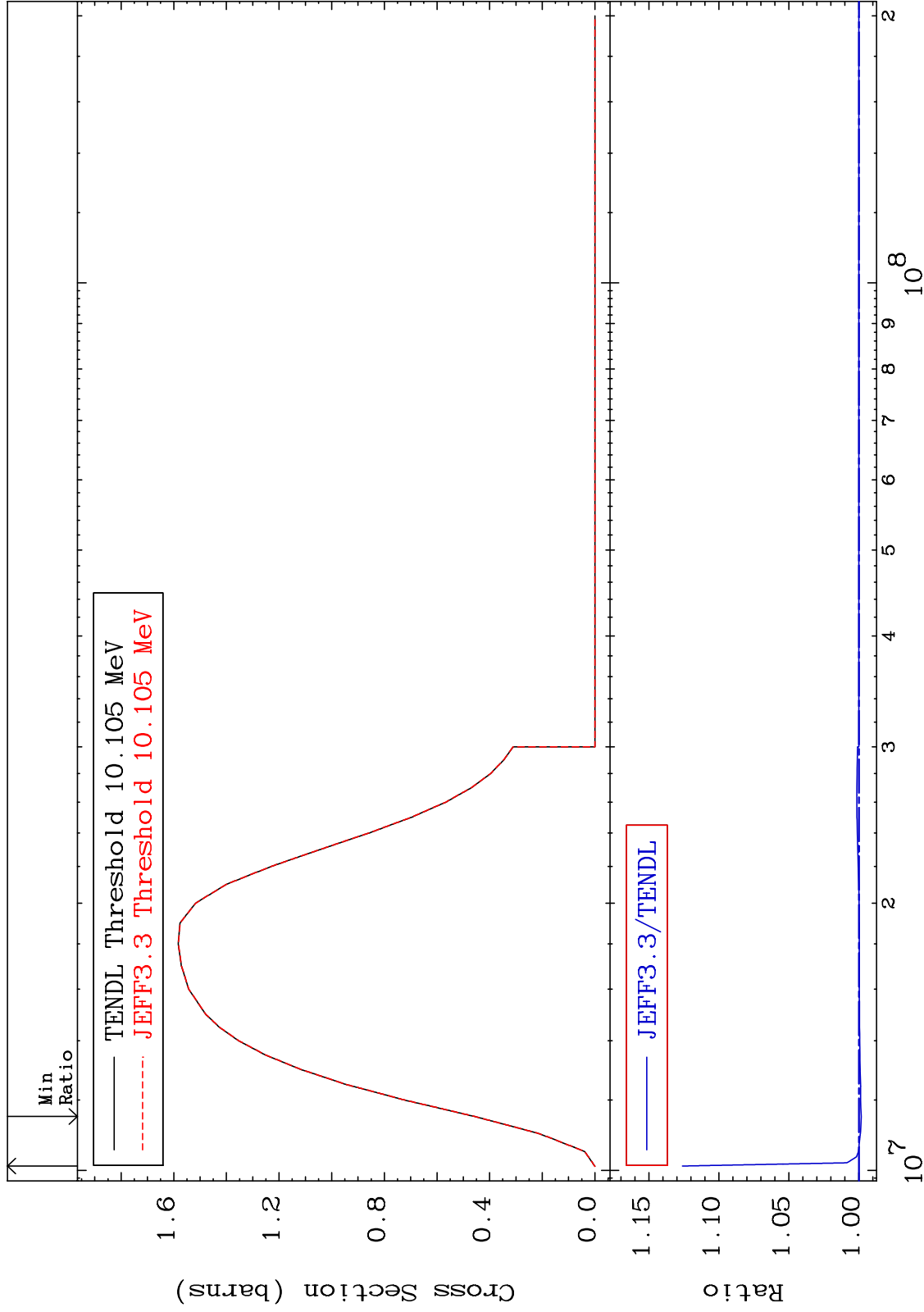
MAT 5431

(n,2n)

54-Xe-126

Cross Section

-0.169 To 12.61 %



54-Xe-126

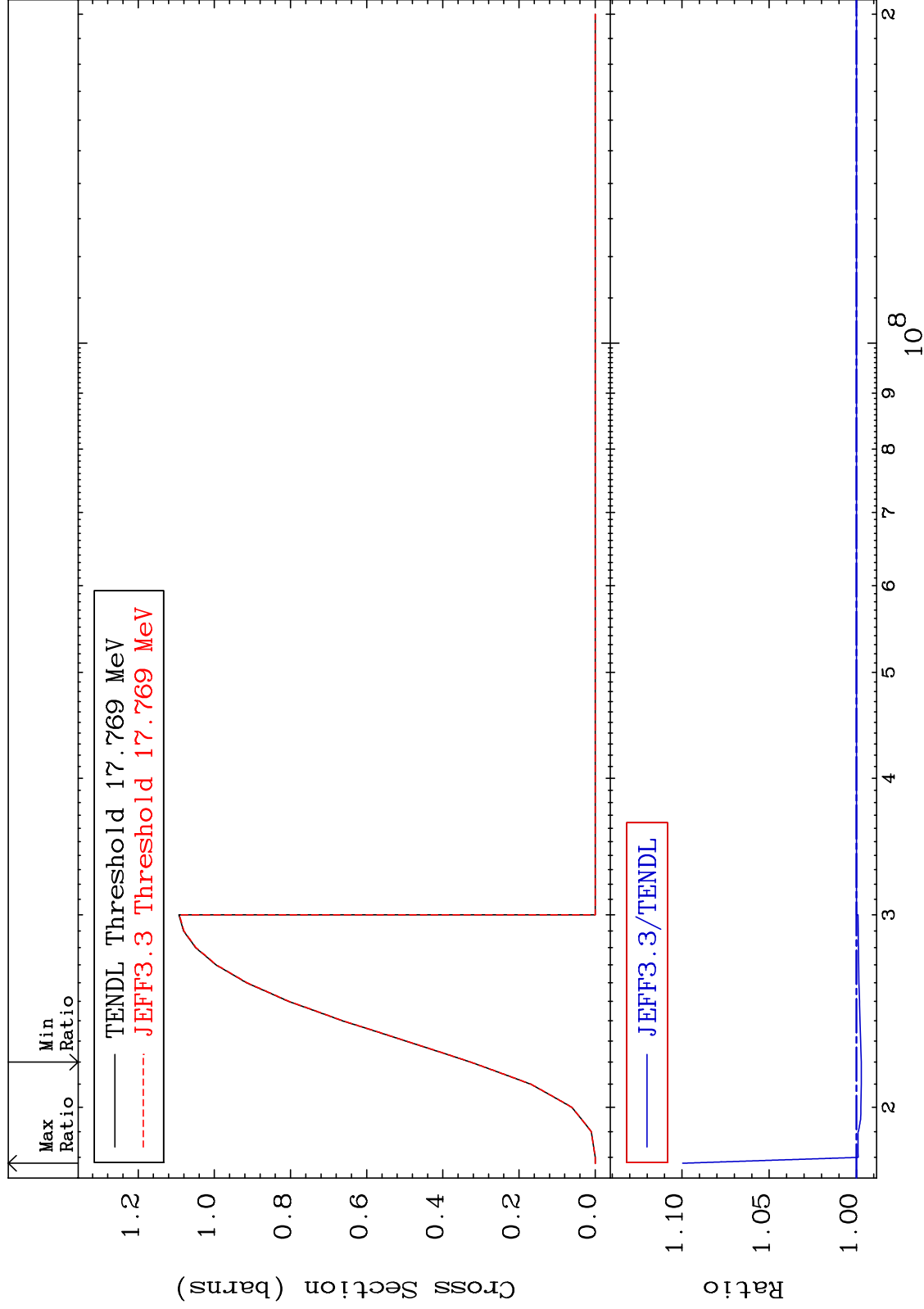
MAT 5431

(n,3n)

54-Xe-126

Cross Section

-0.283 To 9.961 %



6

Incident Energy (eV)

54-Xe-126

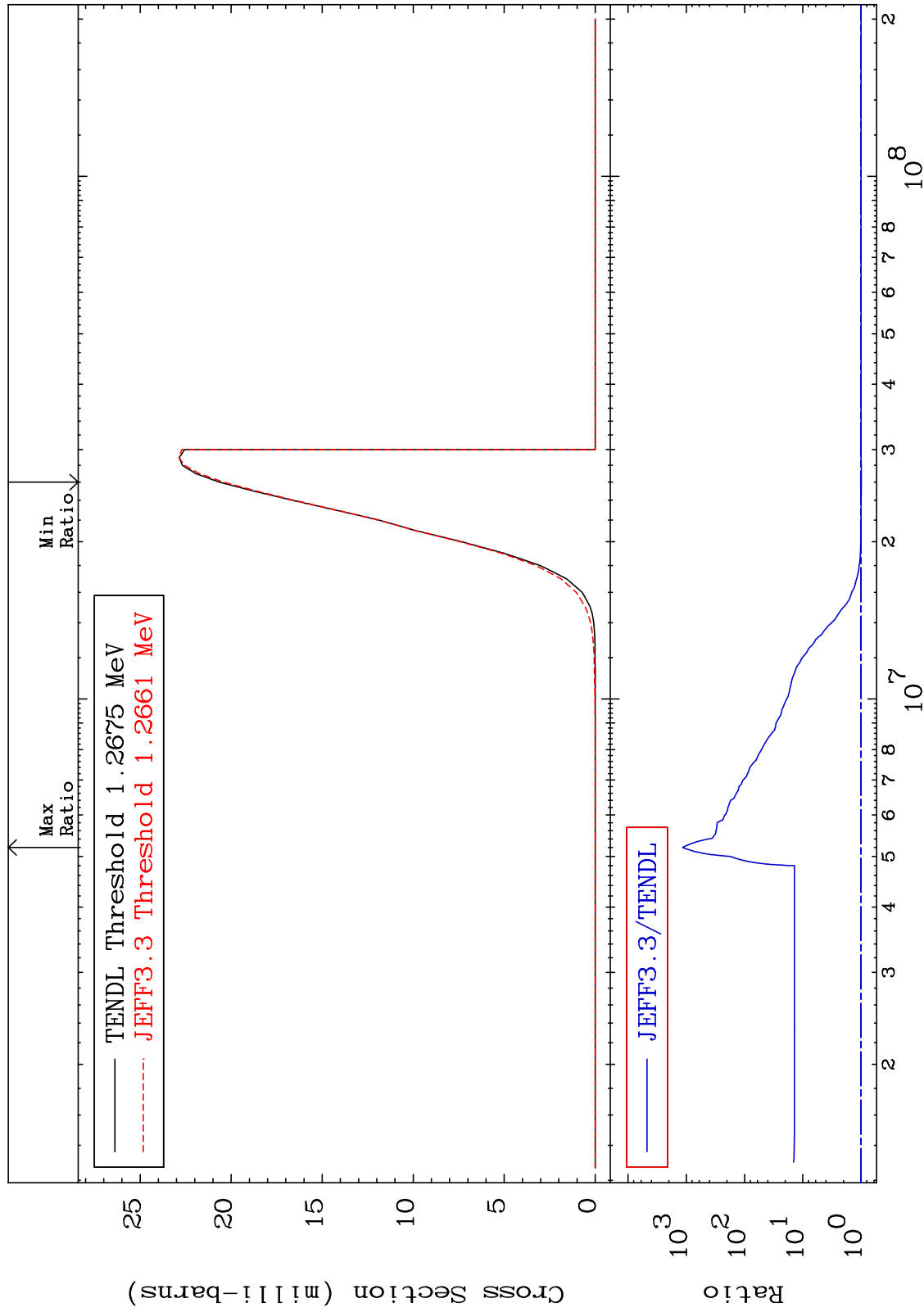
MAT 5431

(n, n') α

54-Xe-126

-1.089 To 9999. %

Cross Section



7

Incident Energy (eV)

54-Xe-126

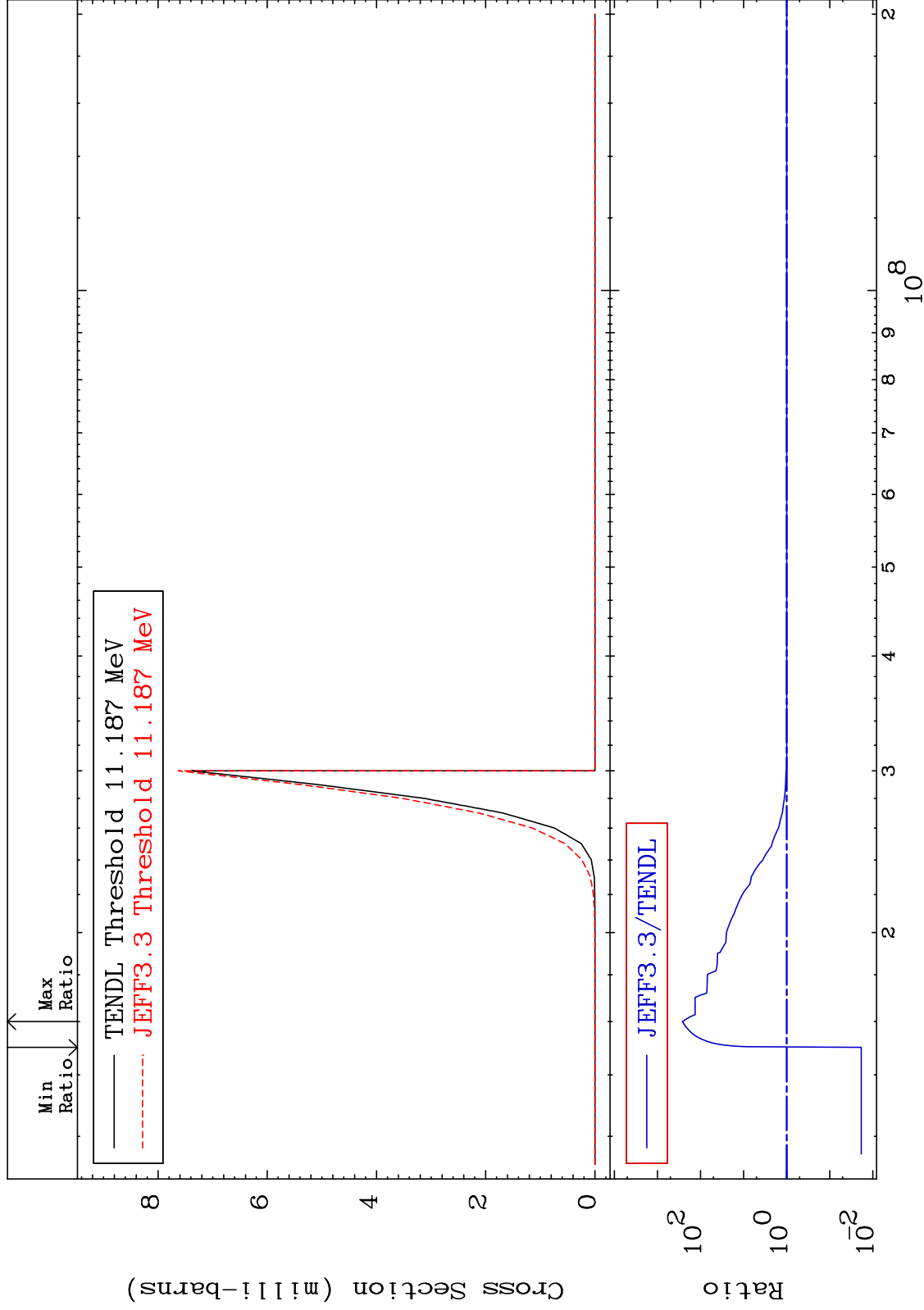
MAT 5431

(n,2n) α

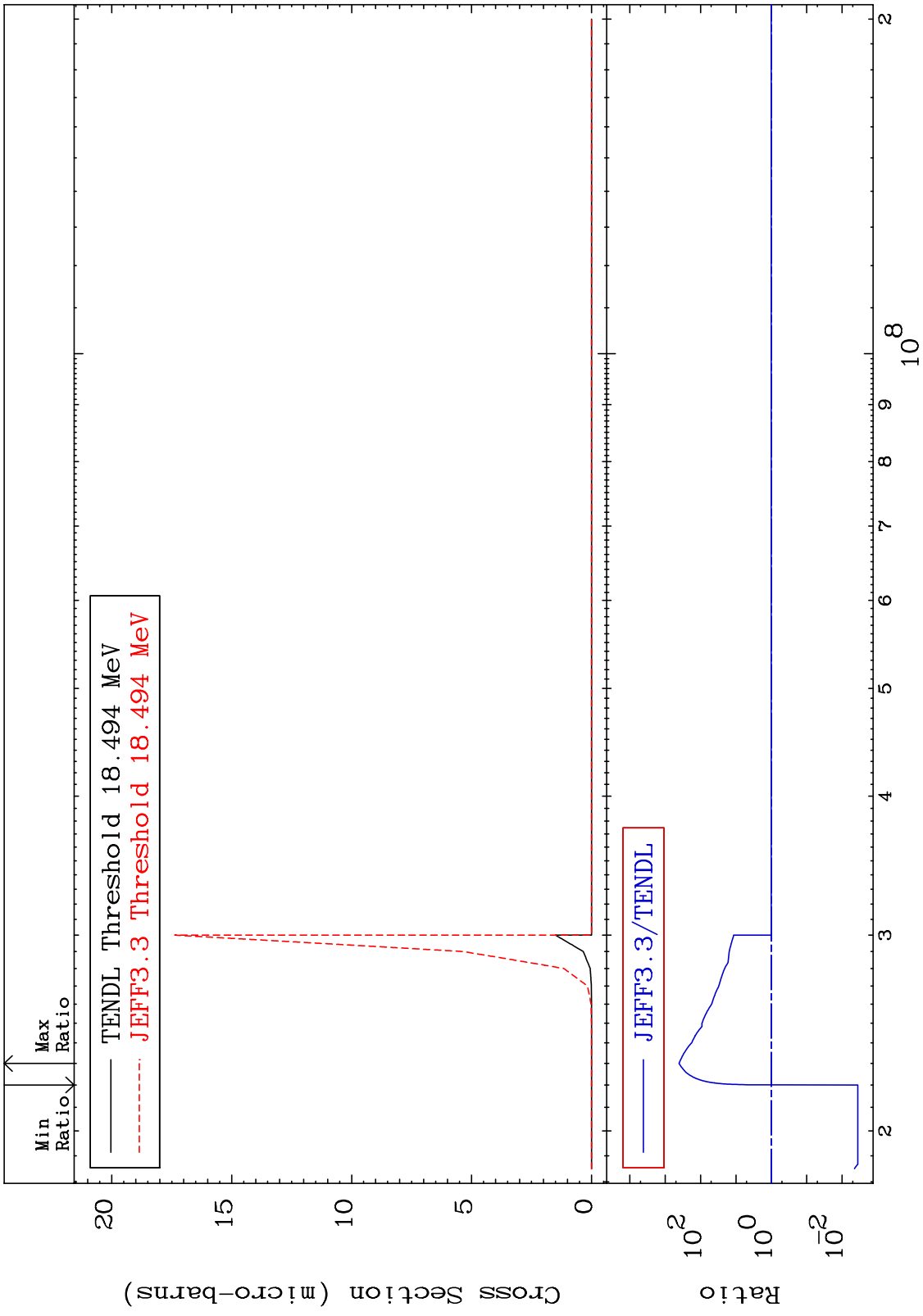
54-Xe-126

Cross Section

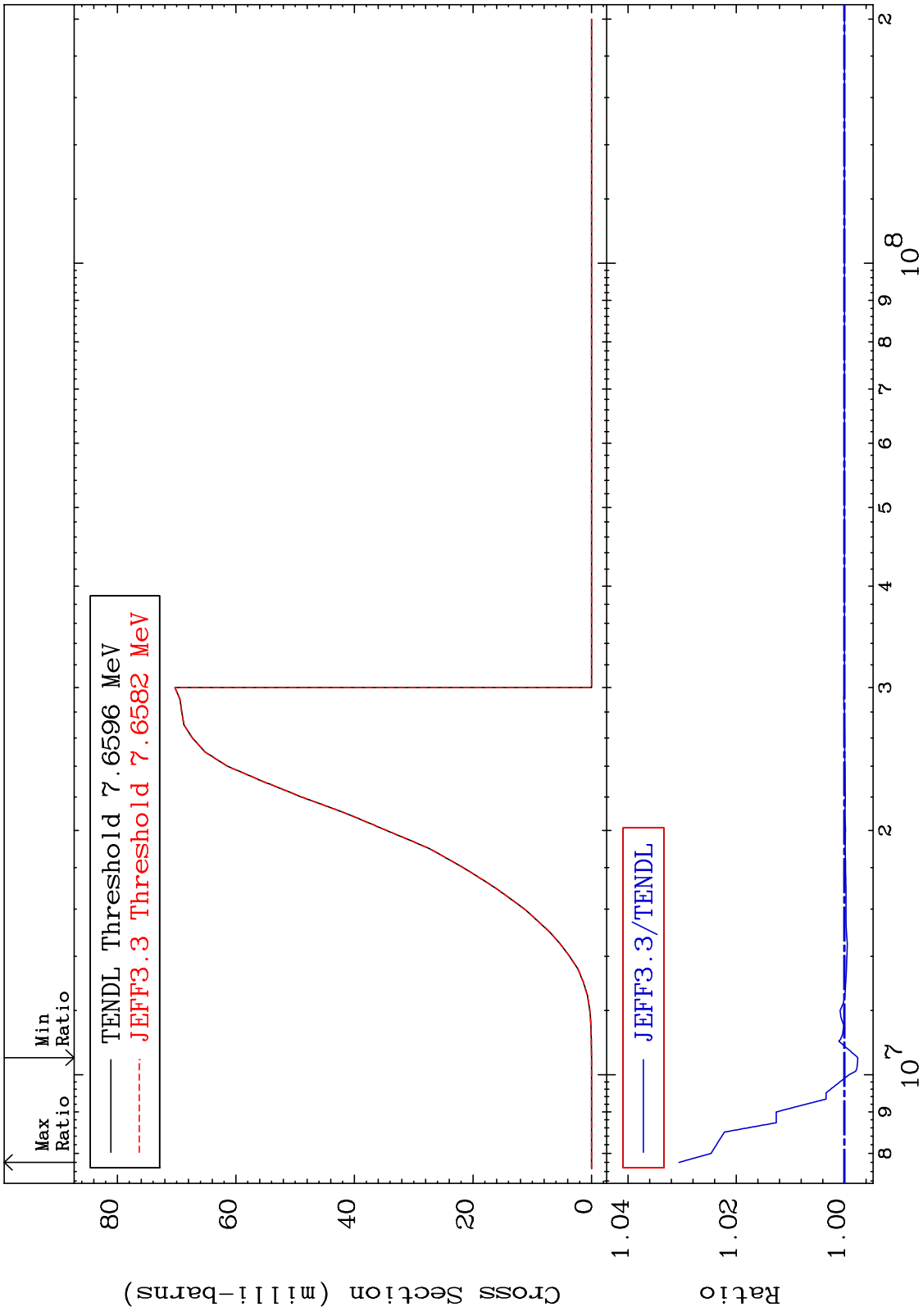
-98.16 To 9999. %



MAT 5431 (n,3n) α 54-Xe-126
 Cross Section -99.64 To 9999. %



MAT 5431 (n,n') p 54-Xe-126
Cross Section -0.248 To 3.058 %



54-Xe-126

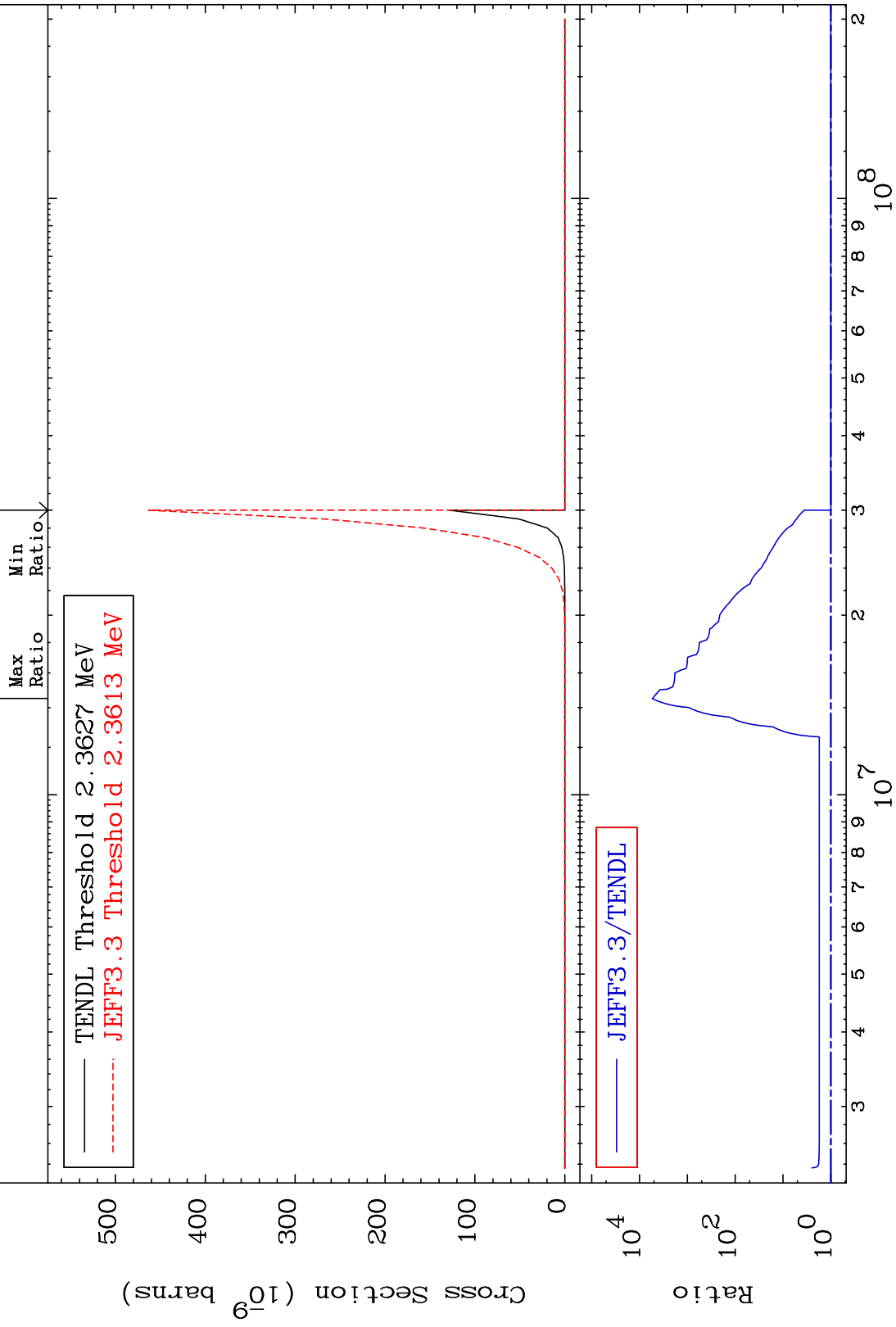
MAT 5431

(n,n') 2α

54-Xe-126

0.000 To 9999. %

Cross Section



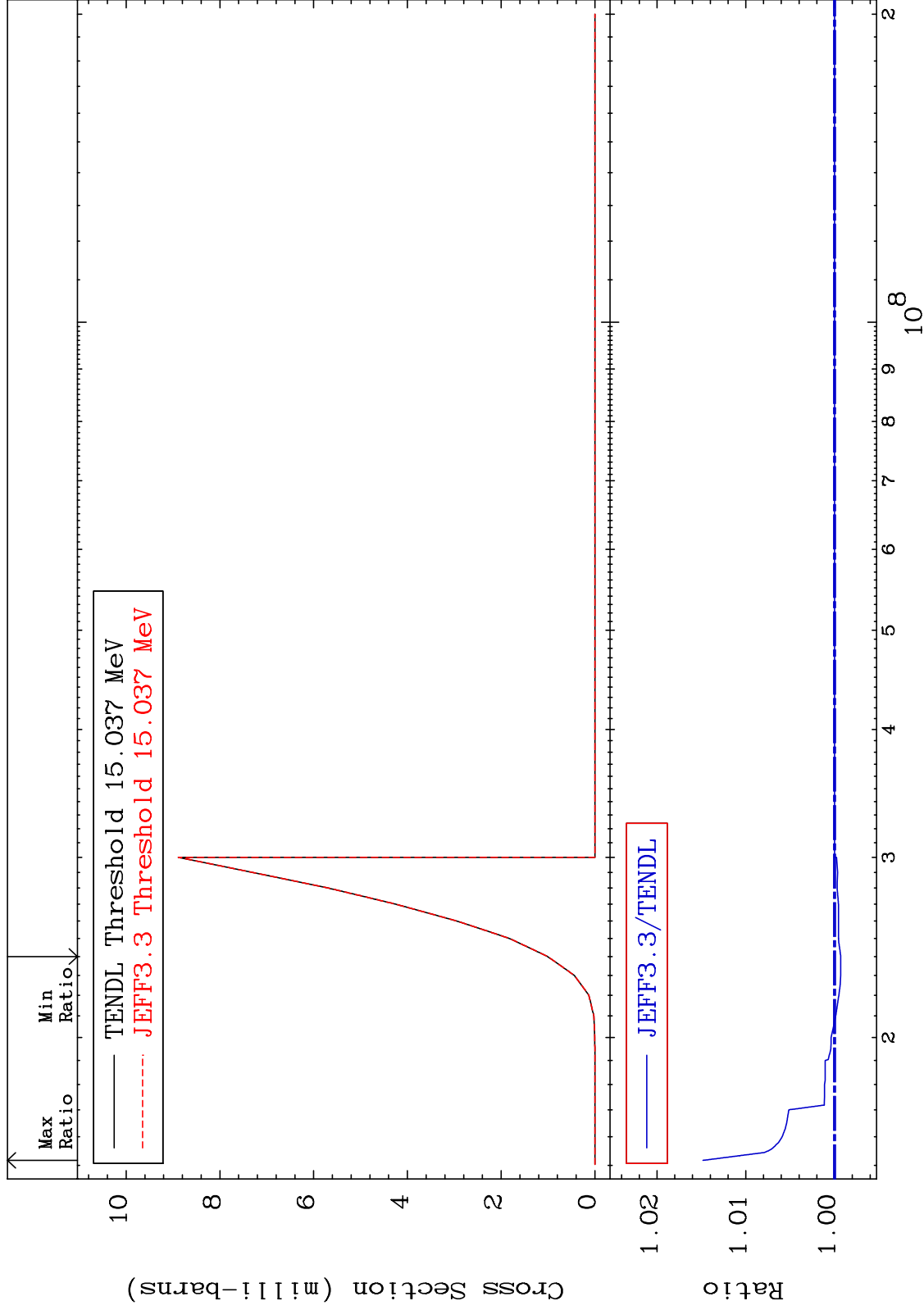
MAT 5431

(n,n') d

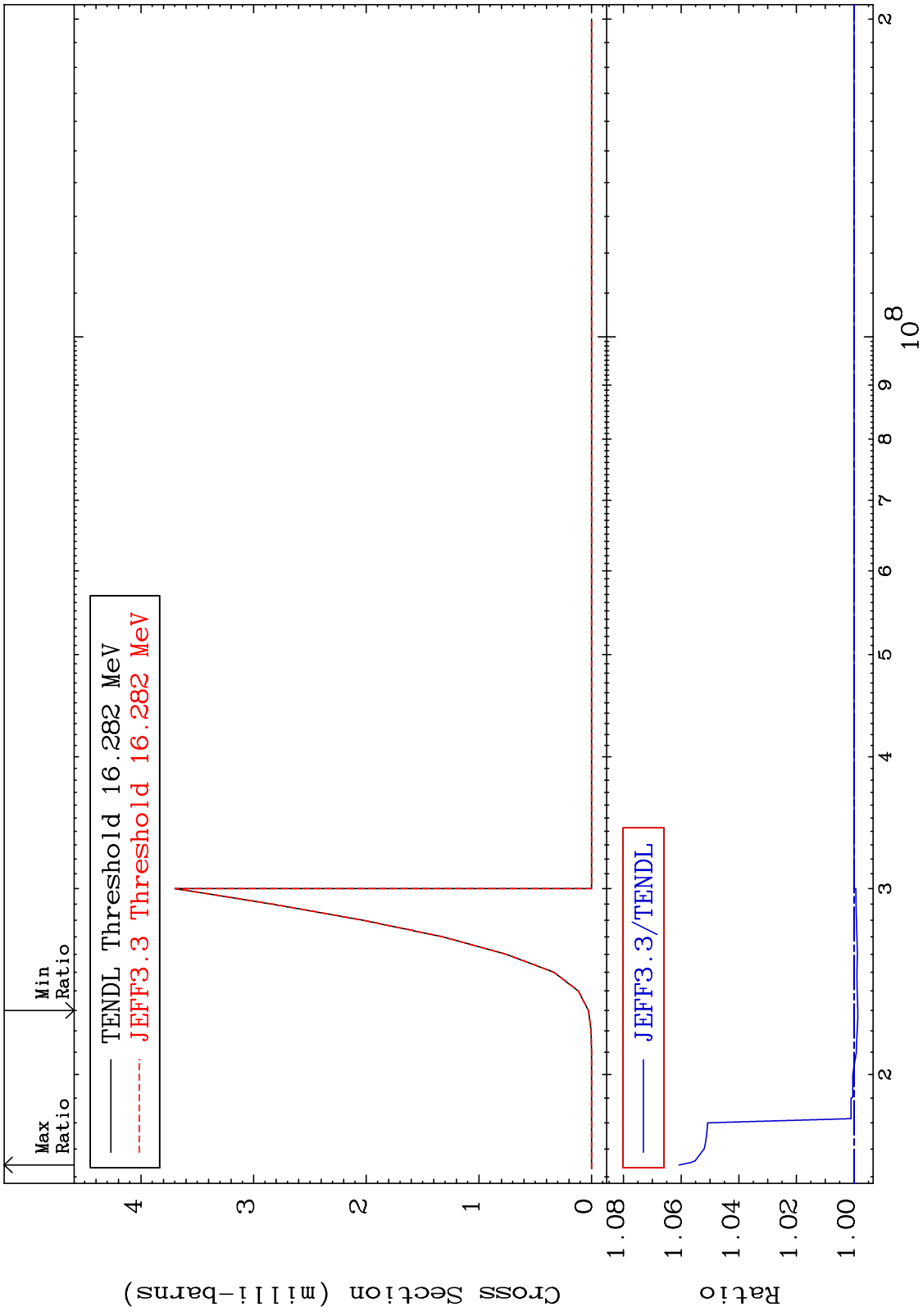
54-Xe-126

Cross Section

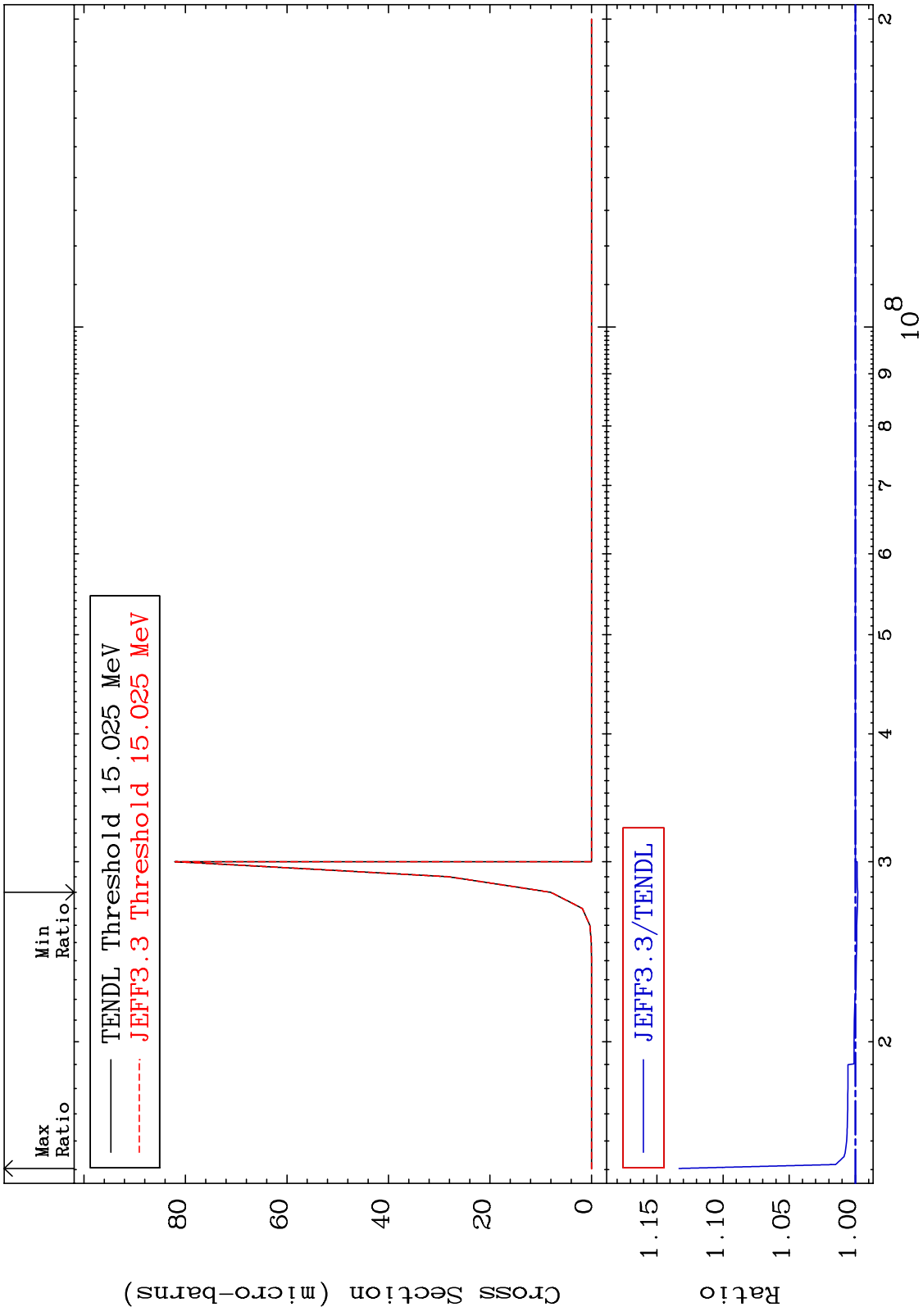
-0.069 To 1.482 %



MAT 5431 (n,n') t 54-Xe-126
Cross Section -0.130 To 6.074 %



MAT 5431 (n, n') He-3 54-Xe-126
Cross Section -0.186 To 13.32 %



54-Xe-126

Incident Energy (eV)

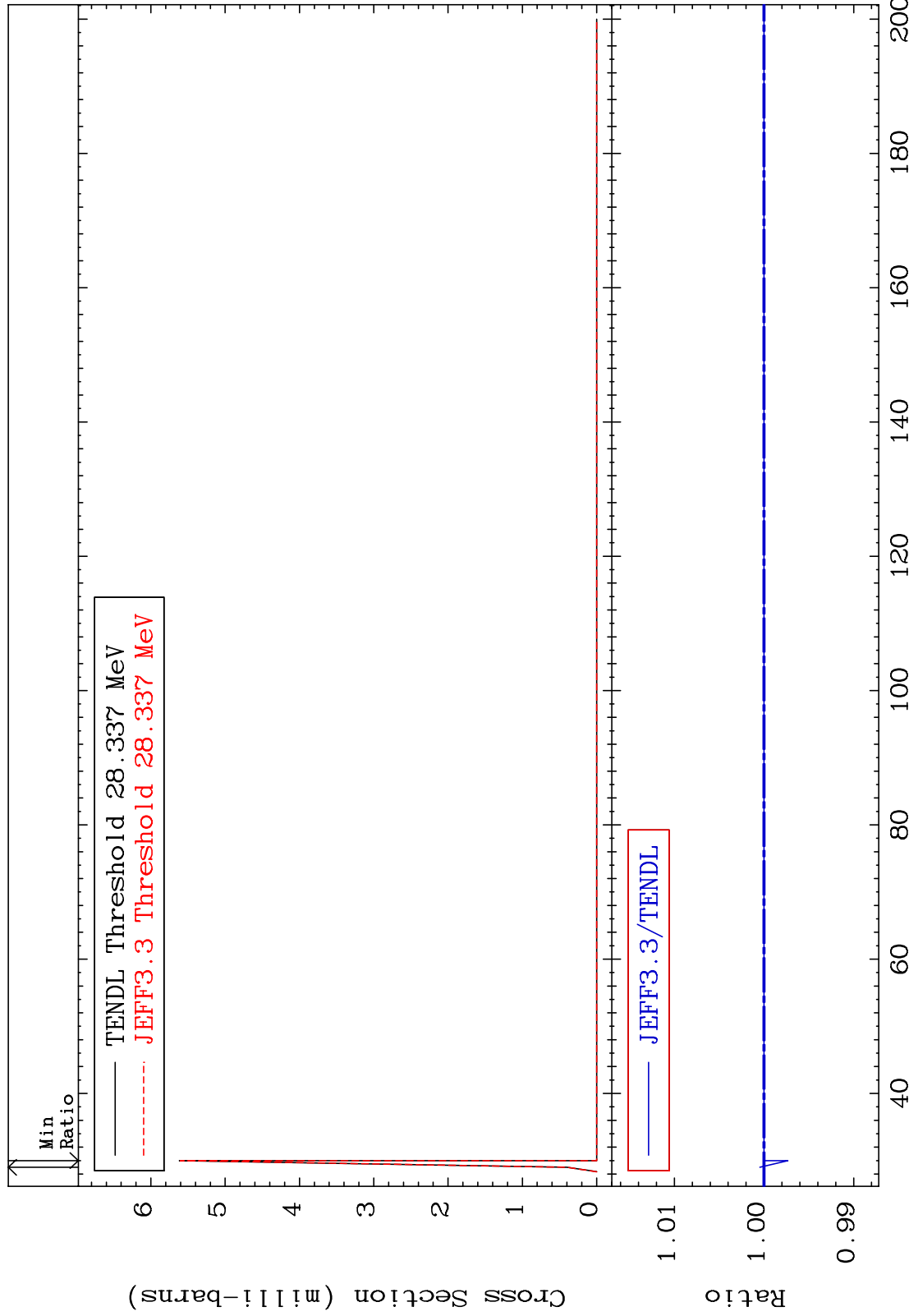
MAT 5431

(n,4n)

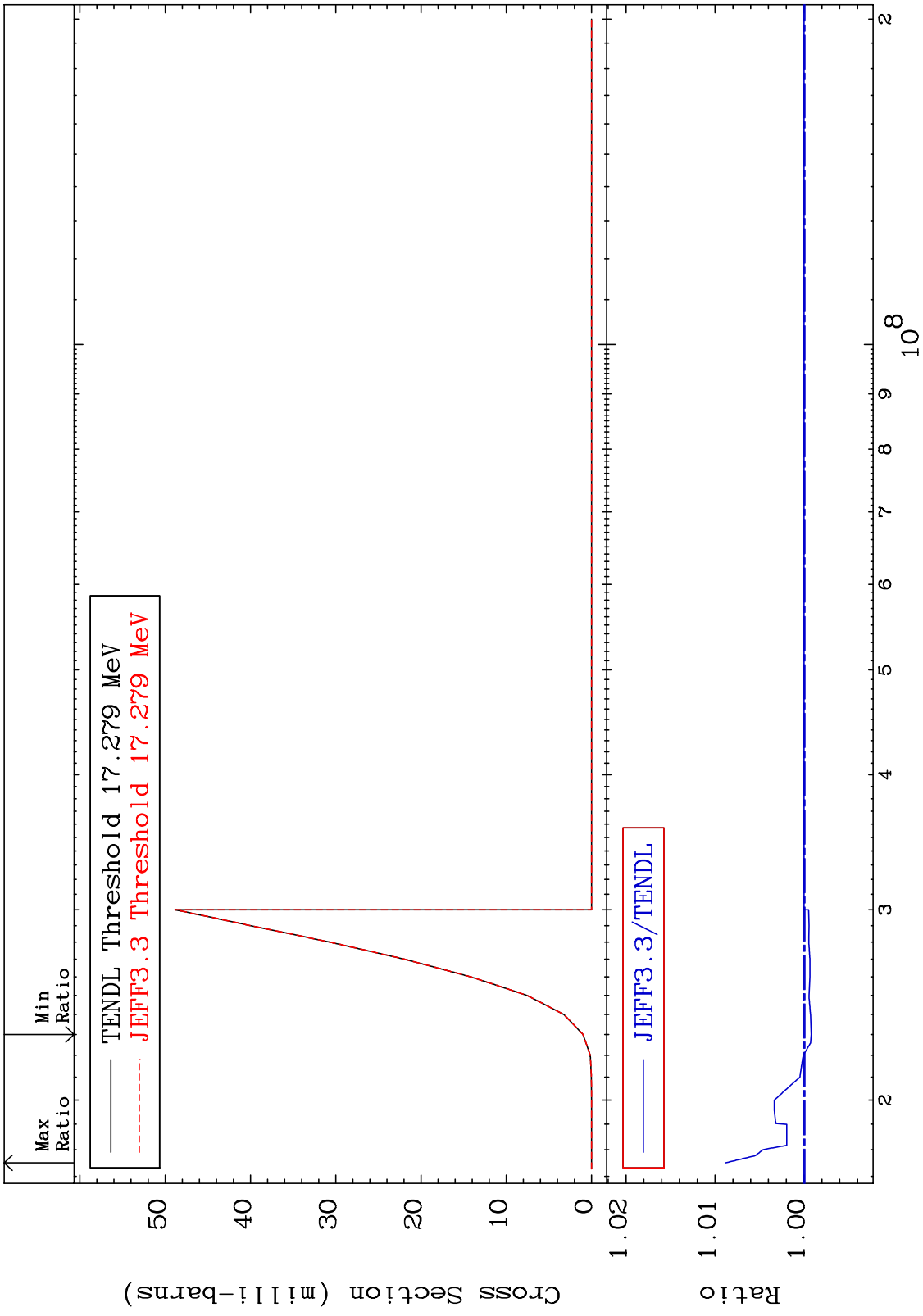
54-Xe-126

Cross Section

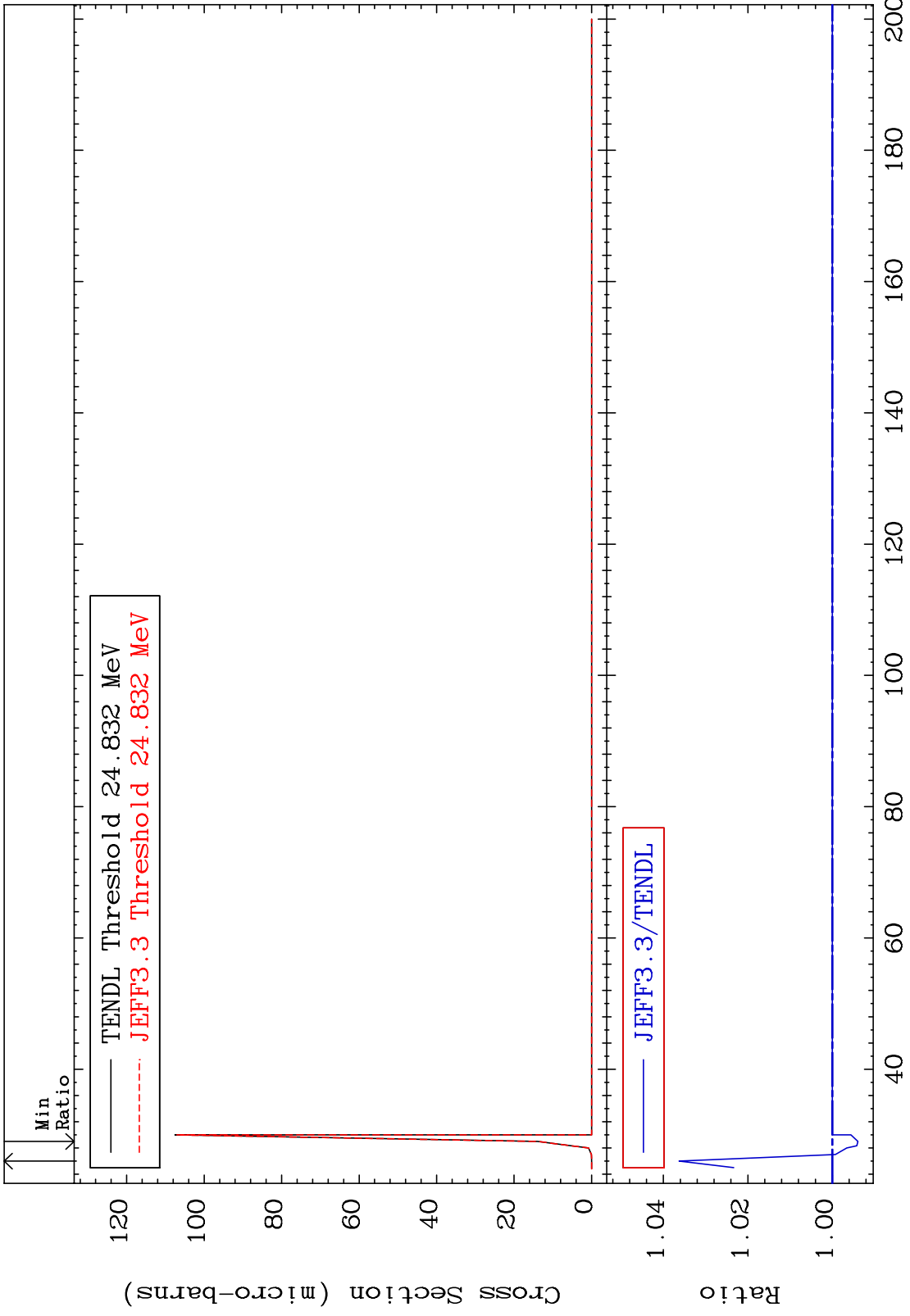
-0.266 To 0.046 %



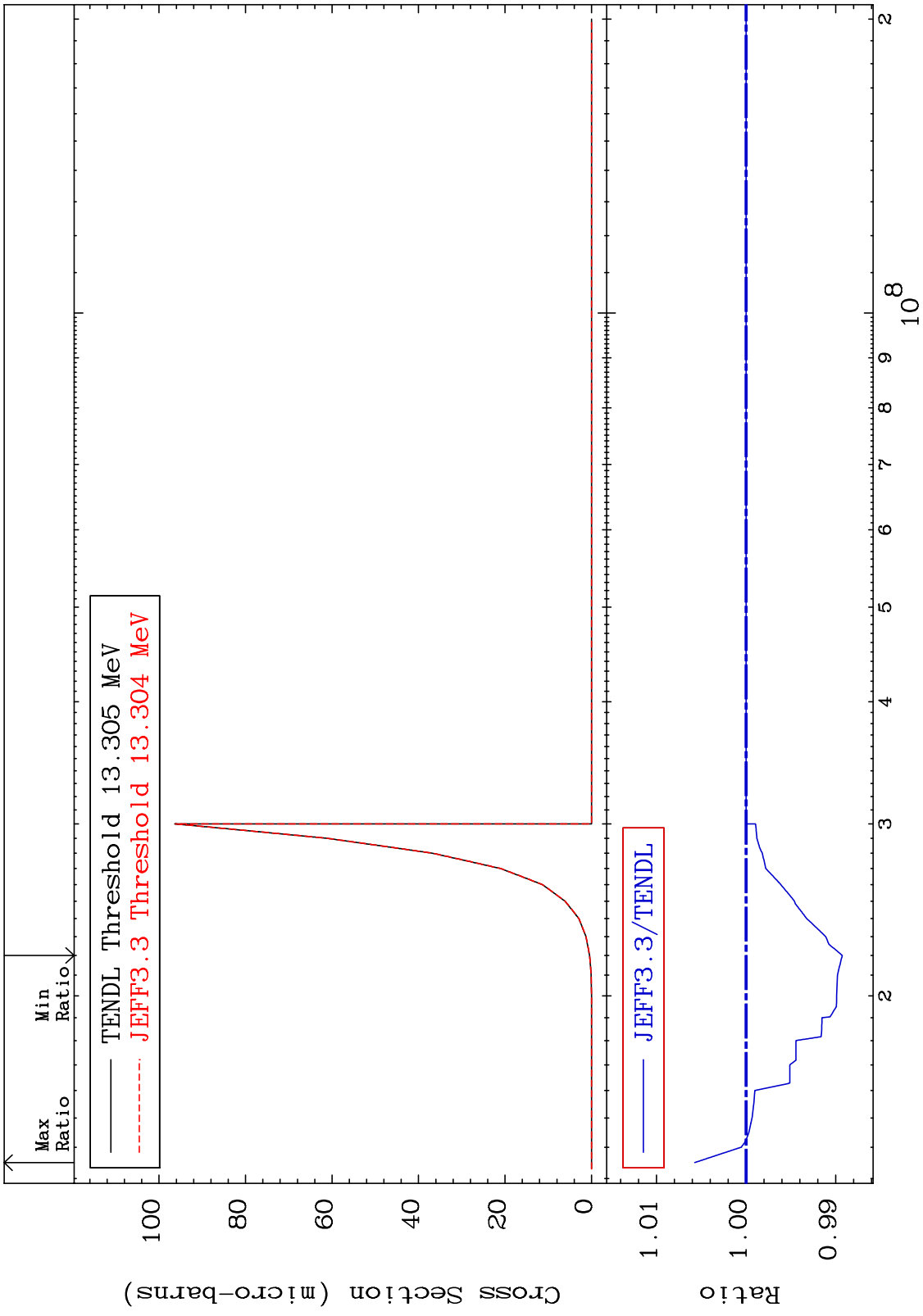
MAT 5431 (n,2n) p 54-Xe-126
 Cross Section -0.081 To 0.882 %



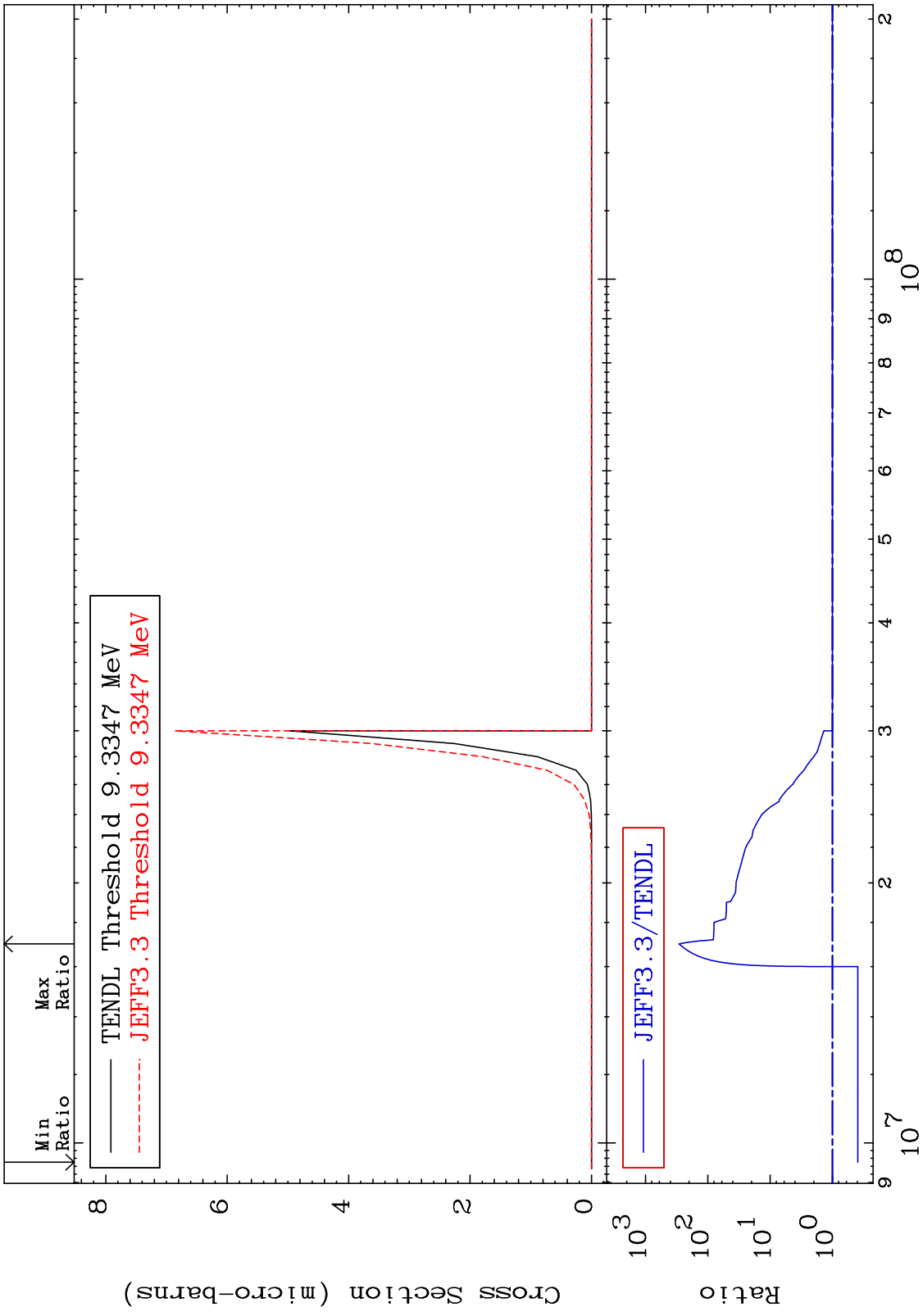
MAT 5431 (n,3n) p 54-Xe-126
Cross Section -0.608 To 3.628 %



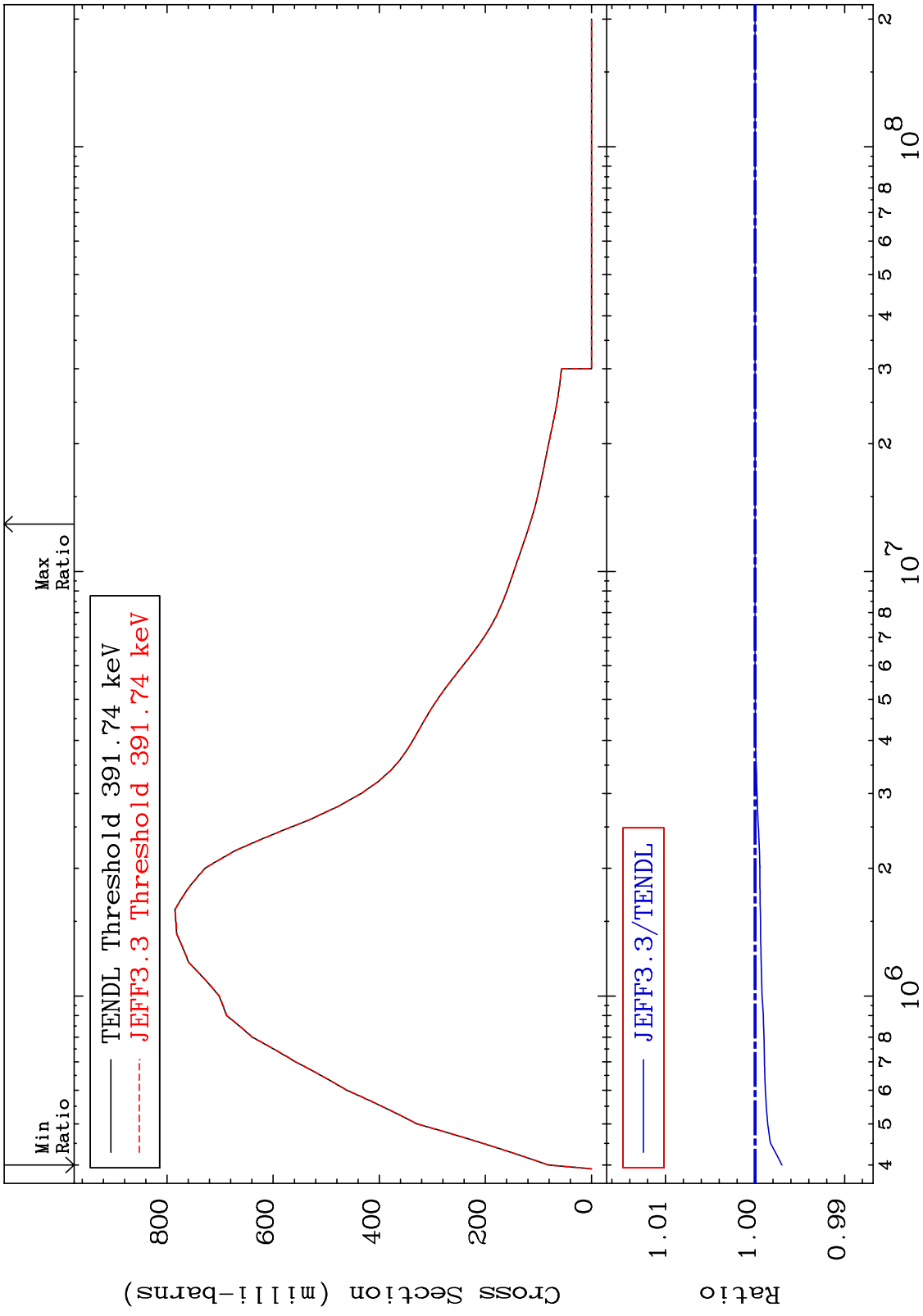
MAT 5431 (n,2n) p 54-Xe-126
 Cross Section -1.073 To 0.574 %



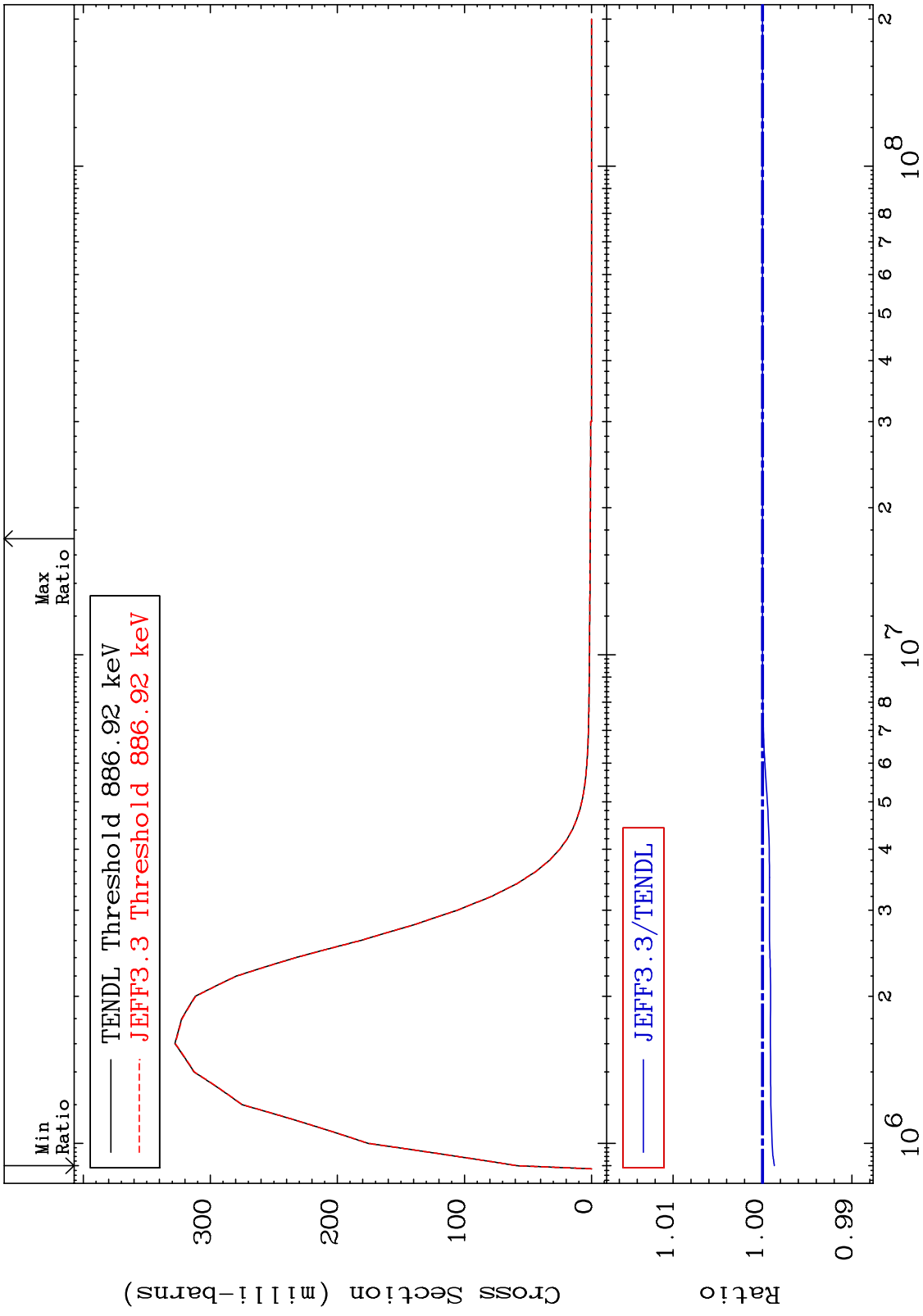
MAT 5431 (n,n') p α 54-Xe-126
 Cross Section -60.73 To 9999. %



MAT 5431 MT= 51 (n,n') Level Cross Section 54-Xe-126 -0.299 To 0.000 %



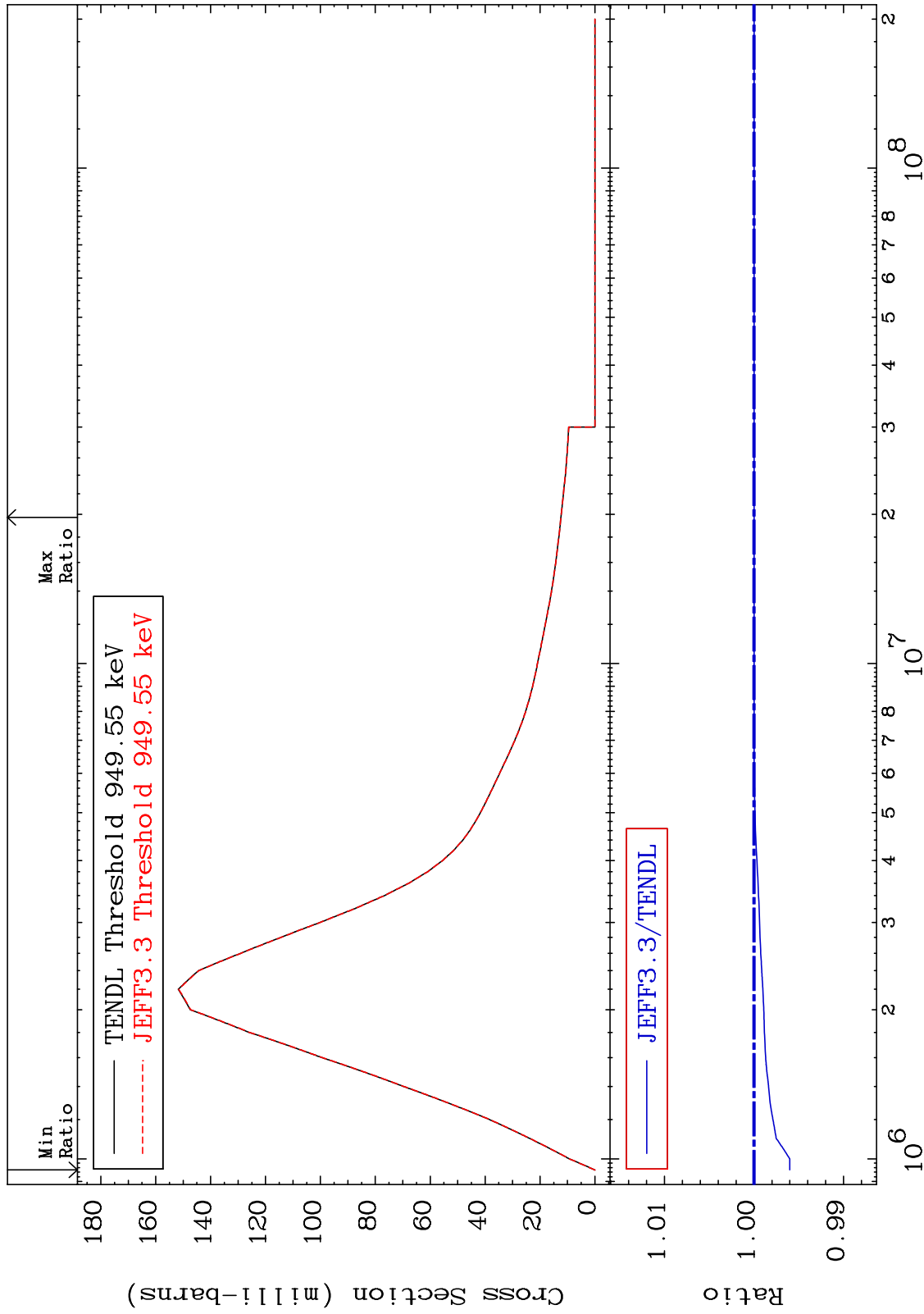
MAT 5431 MT= 52 (n,n') Level Cross Section 54-Xe-126 -0.133 To 0.000 %



MAT 5431

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

54-Xe-126
-0.399 To 0.000 %

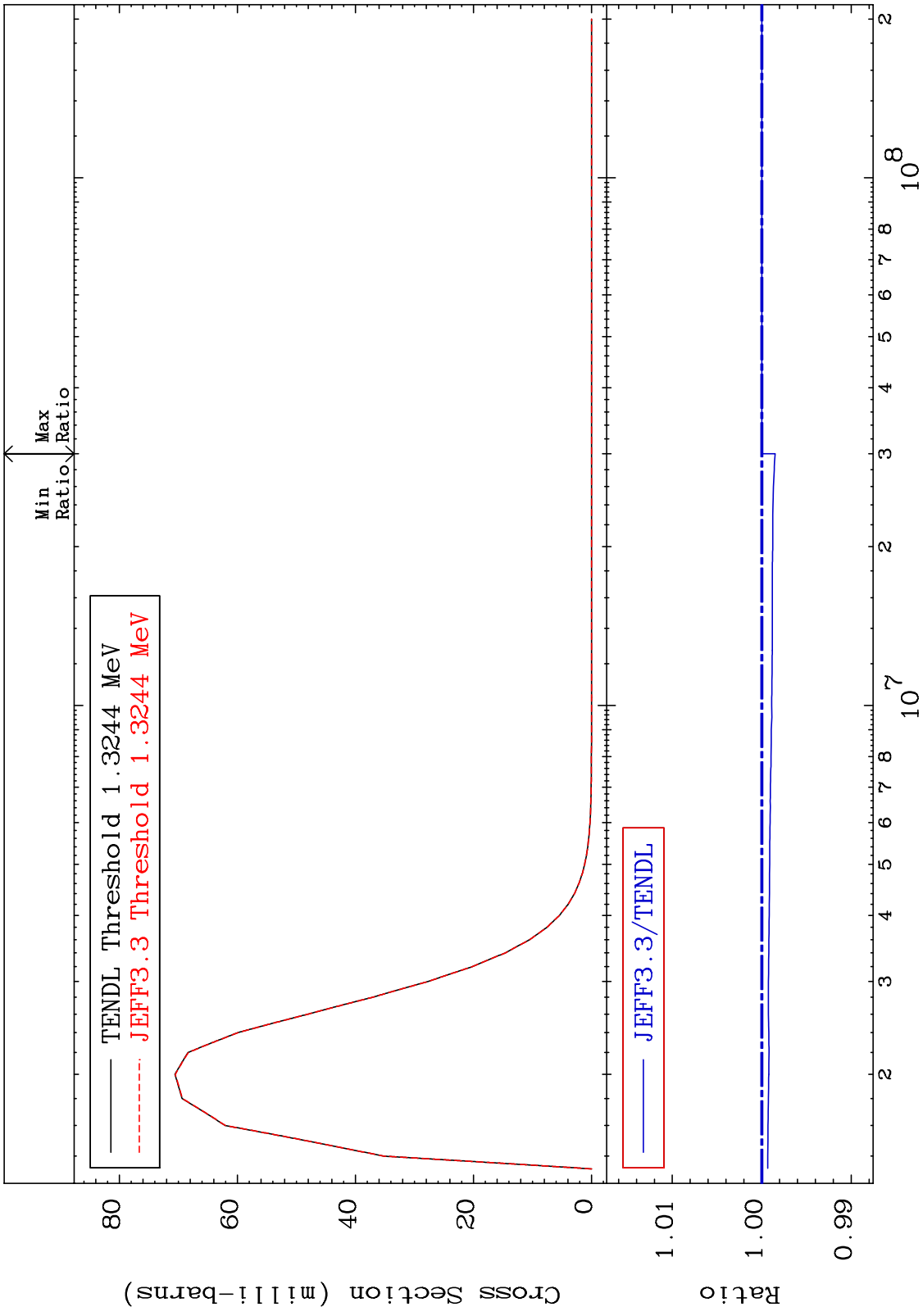


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Incident Energy (eV)

54-Xe-126

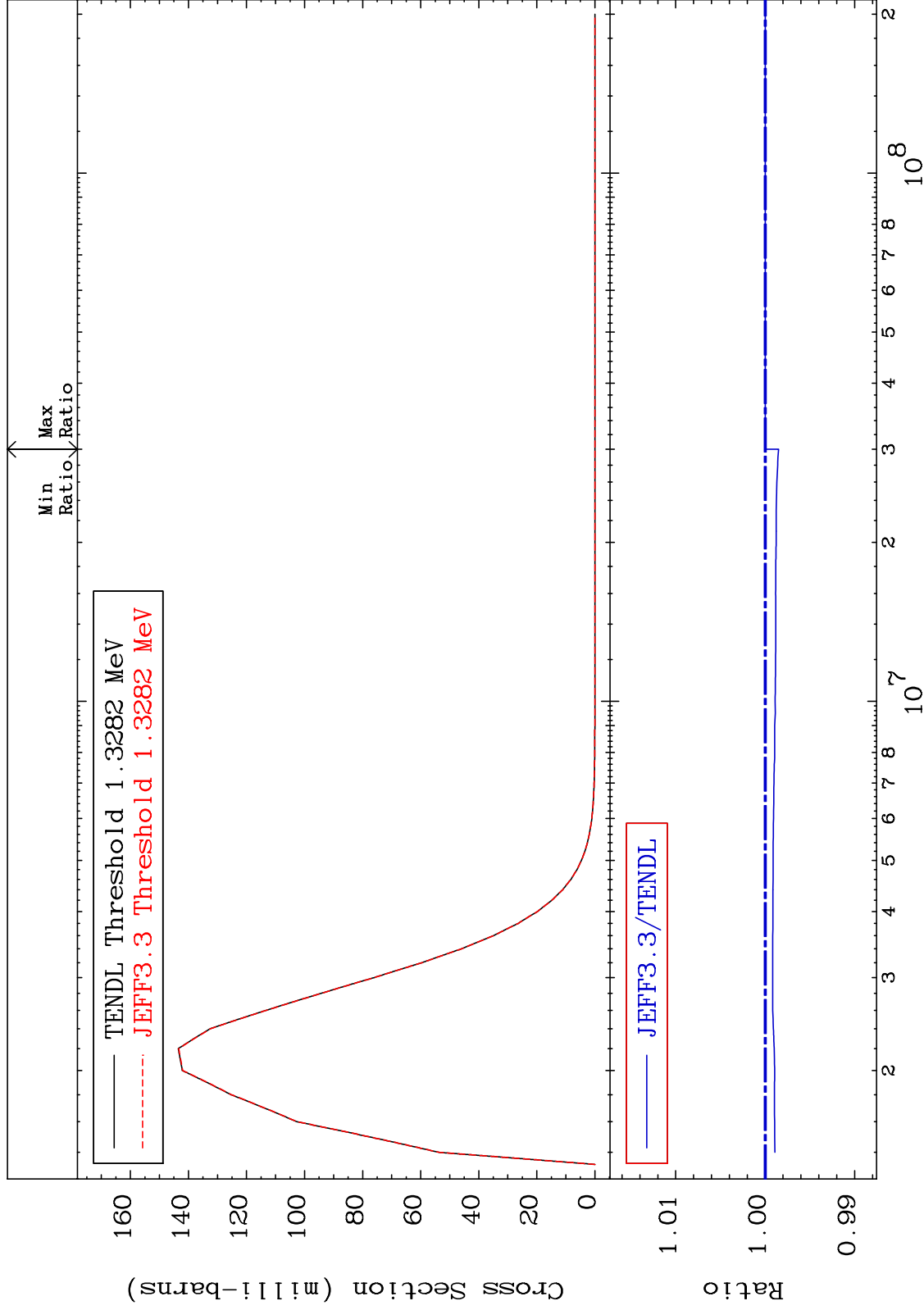
MAT 5431 MT= 54 (n,n') Level Cross Section 54-Xe-126 -0.150 To 0.000 %



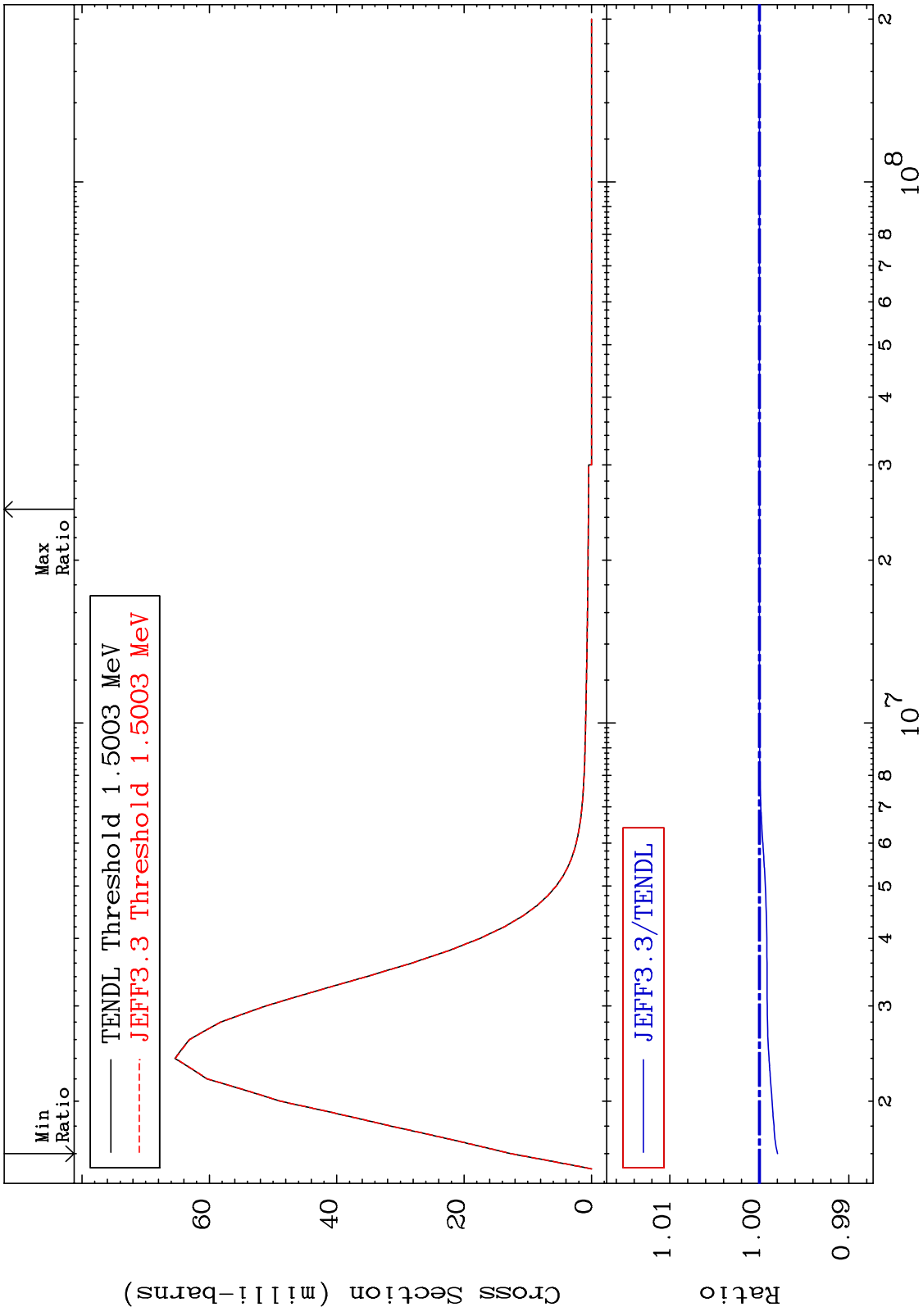
MAT 5431

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

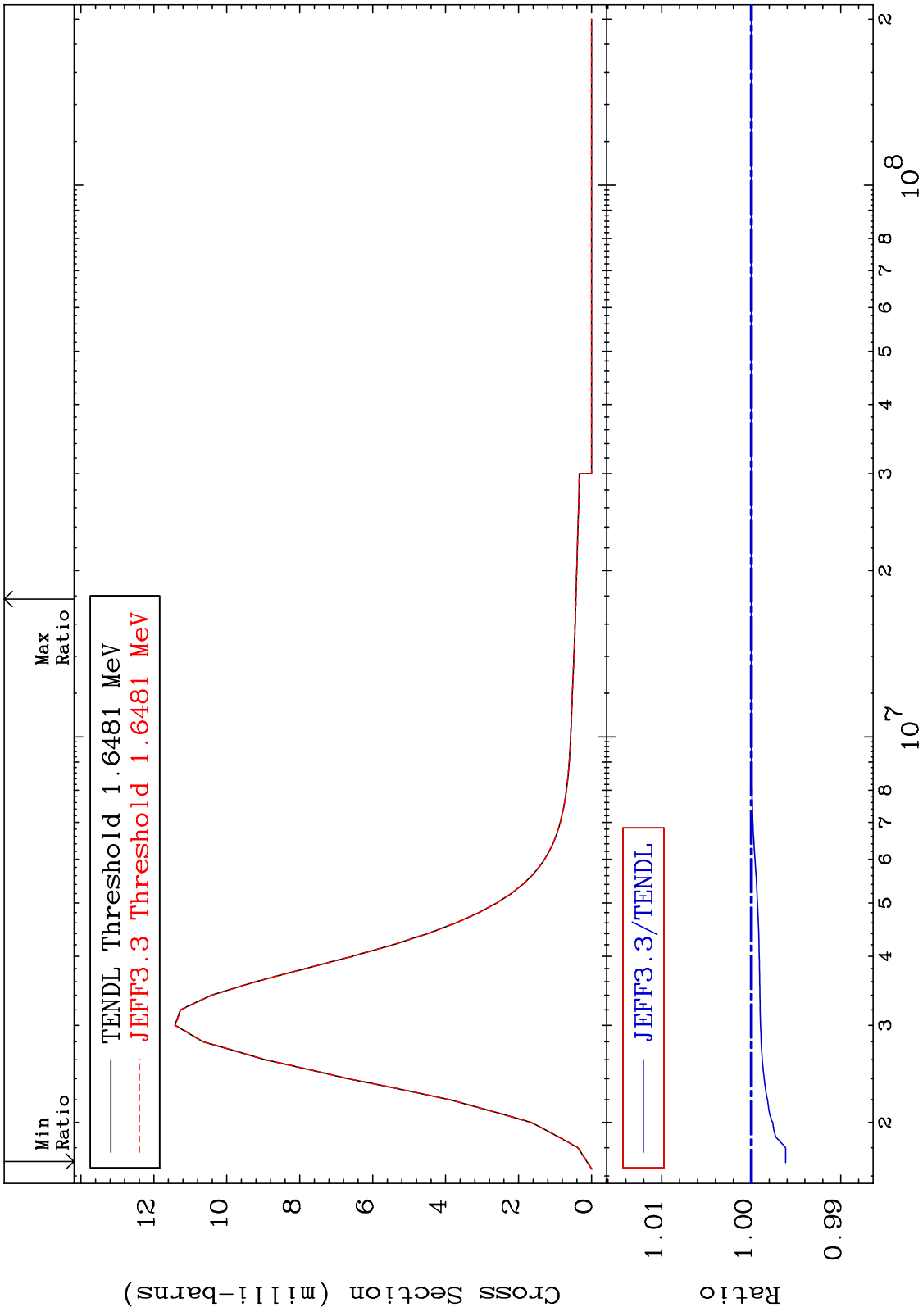
54-Xe-126
-0.150 To 0.000 %



MAT 5431 MT= 56 (n,n') Level Cross Section 54-Xe-126 -0.203 To 0.000 %



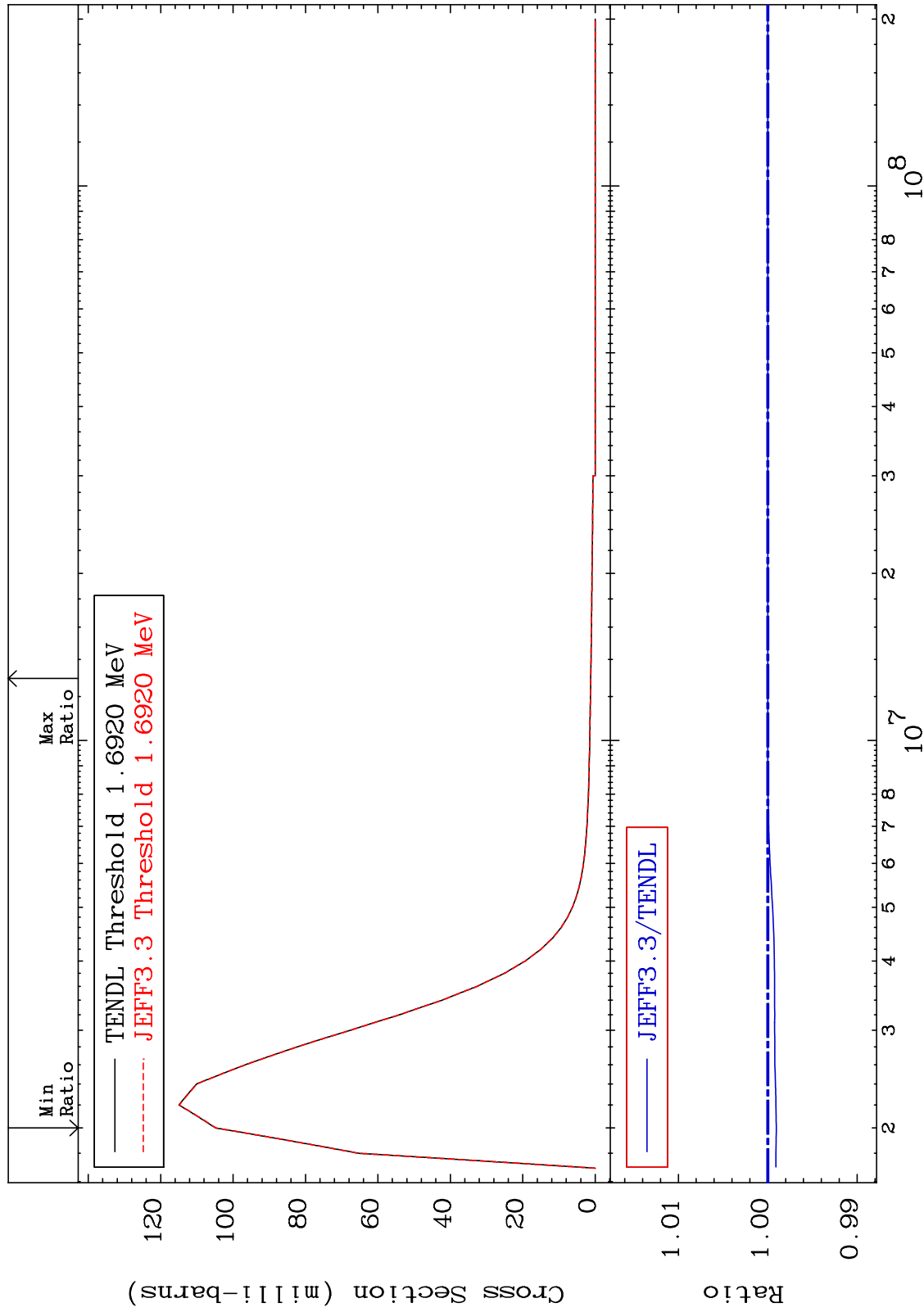
MAT 5431 MT= 57 (n,n') Level Cross Section 54-Xe-126 -0.384 To 0.000 %



MAT 5431

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

54-Xe-126
-0.095 To 0.000 %



27

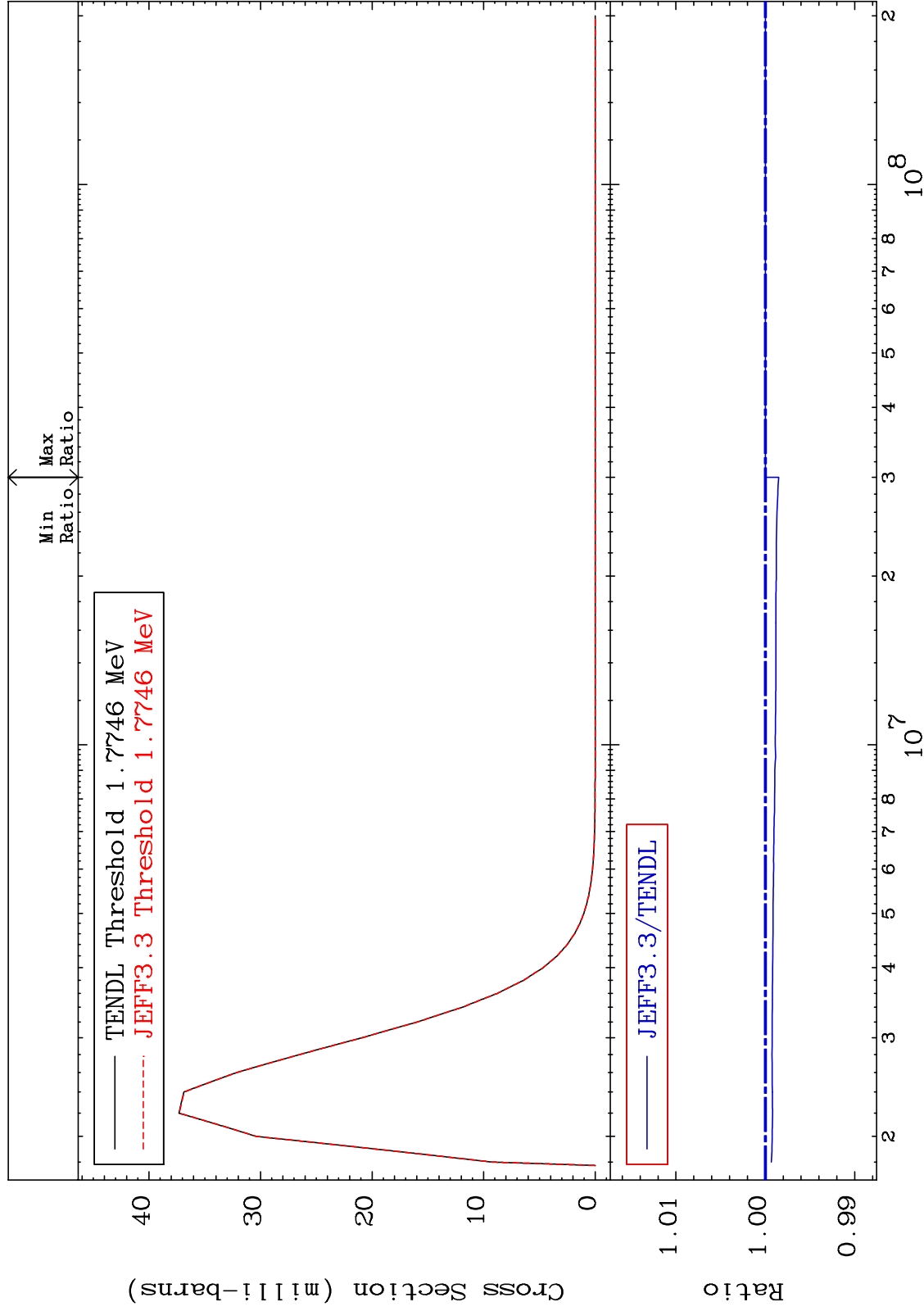
Incident Energy (eV)

54-Xe-126

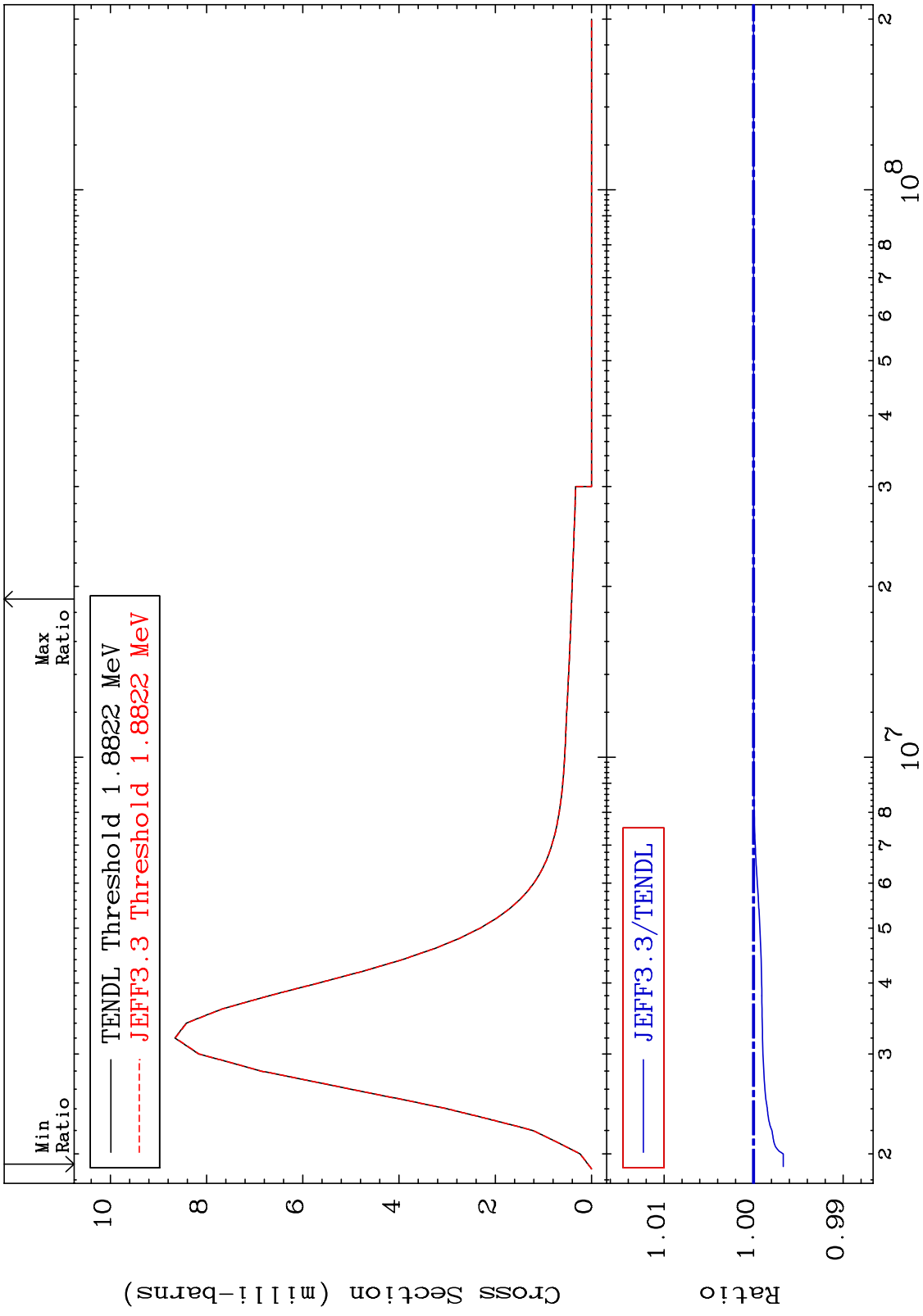
MAT 5431

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

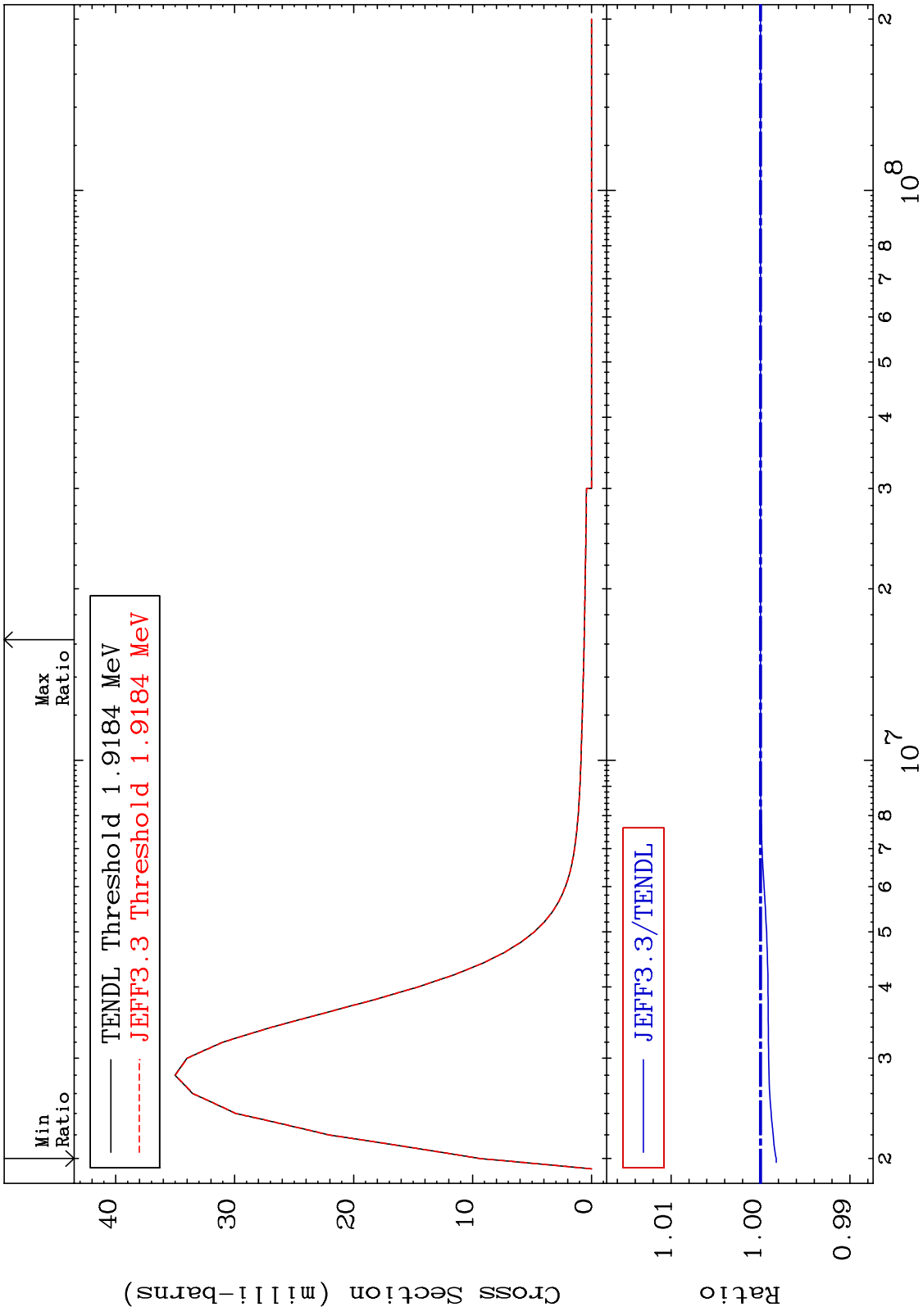
54-Xe-126
-0.150 To 0.000 %



MAT 5431 MT= 60 (n,n') Level Cross Section 54-Xe-126 -0.332 To 0.000 %



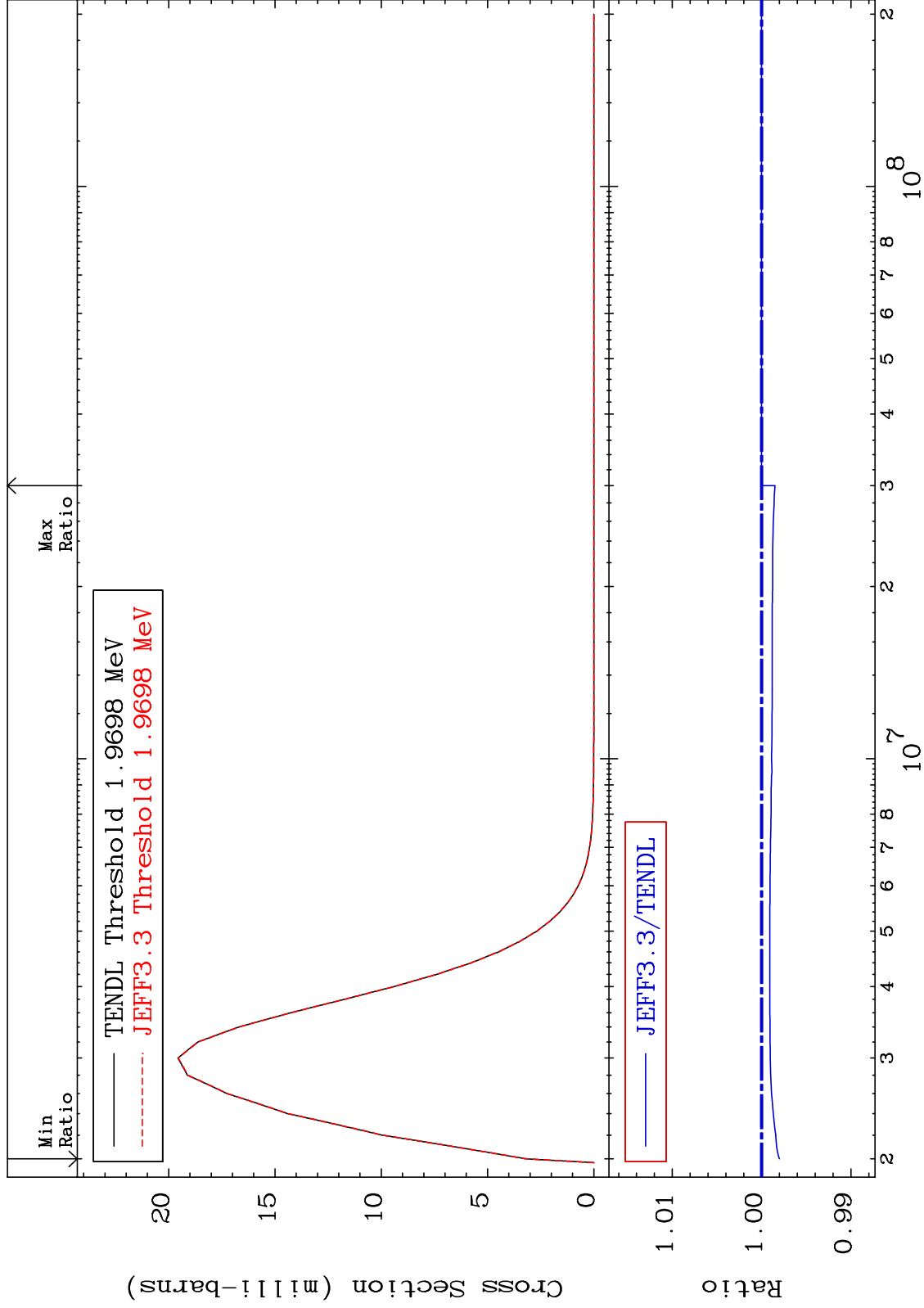
MAT 5431 MT= 61 (n,n') Level Cross Section 54-Xe-126 -0.177 To 0.000 %



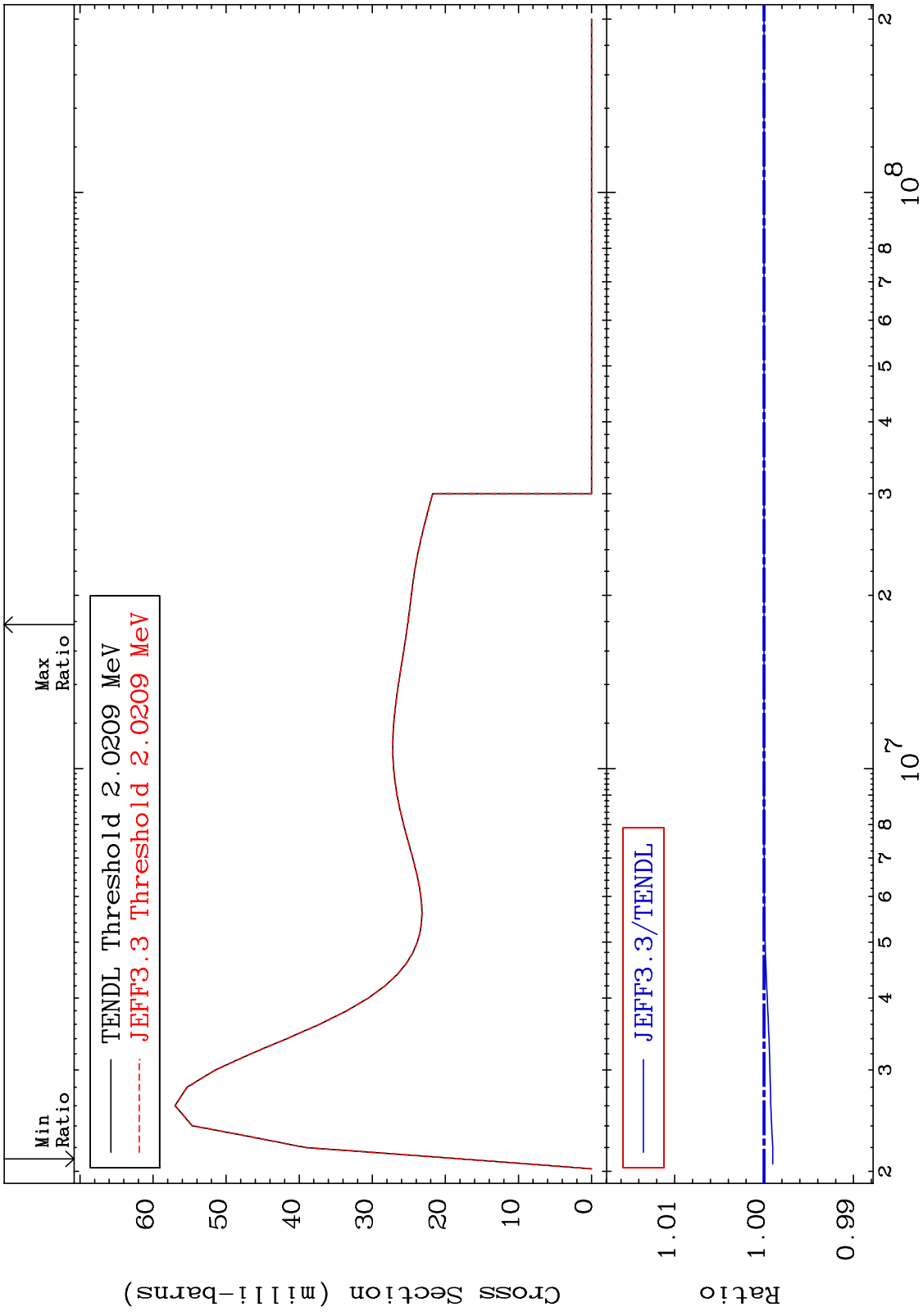
MAT 5431

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

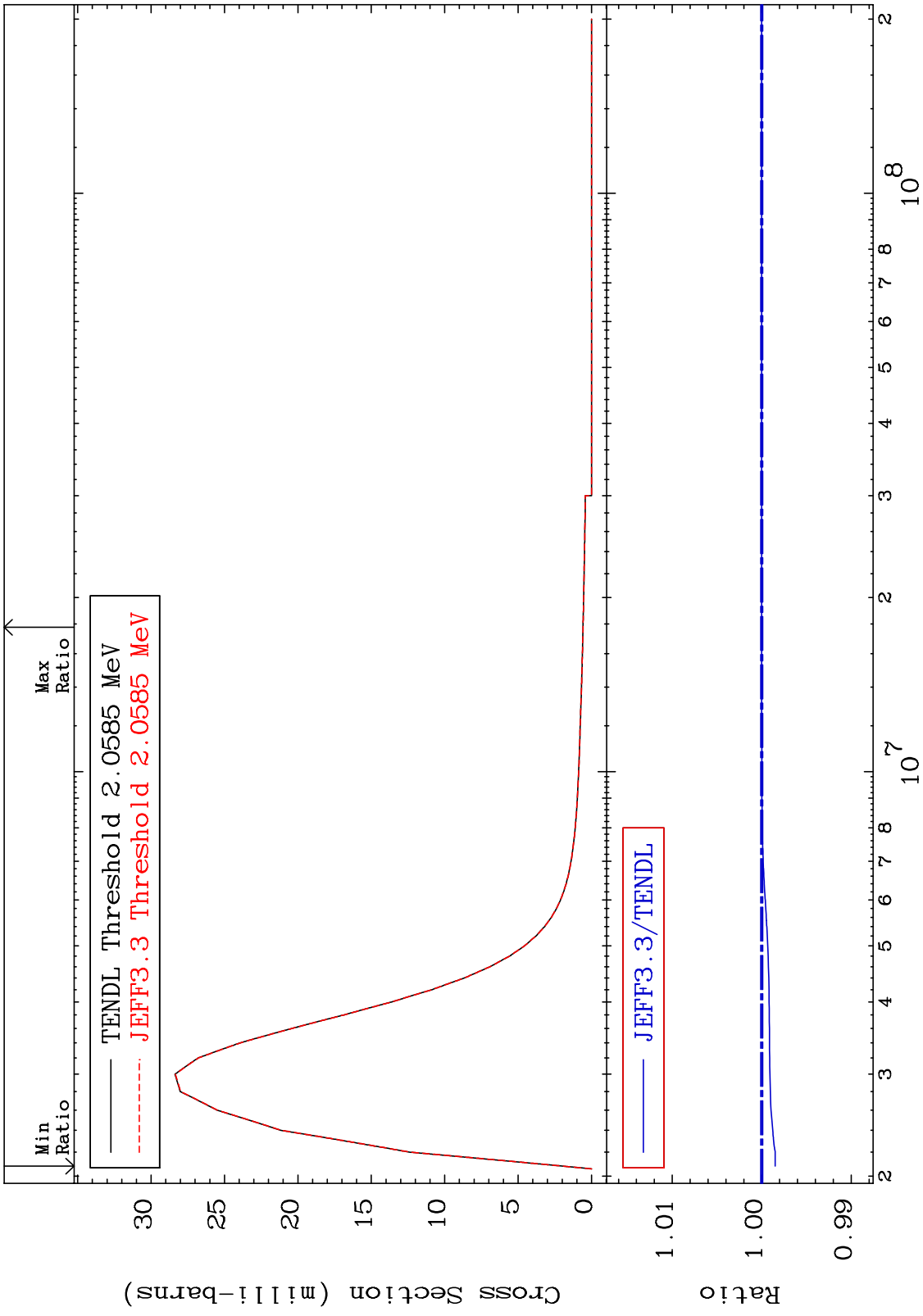
54-Xe-126
-0.199 To 0.000 %



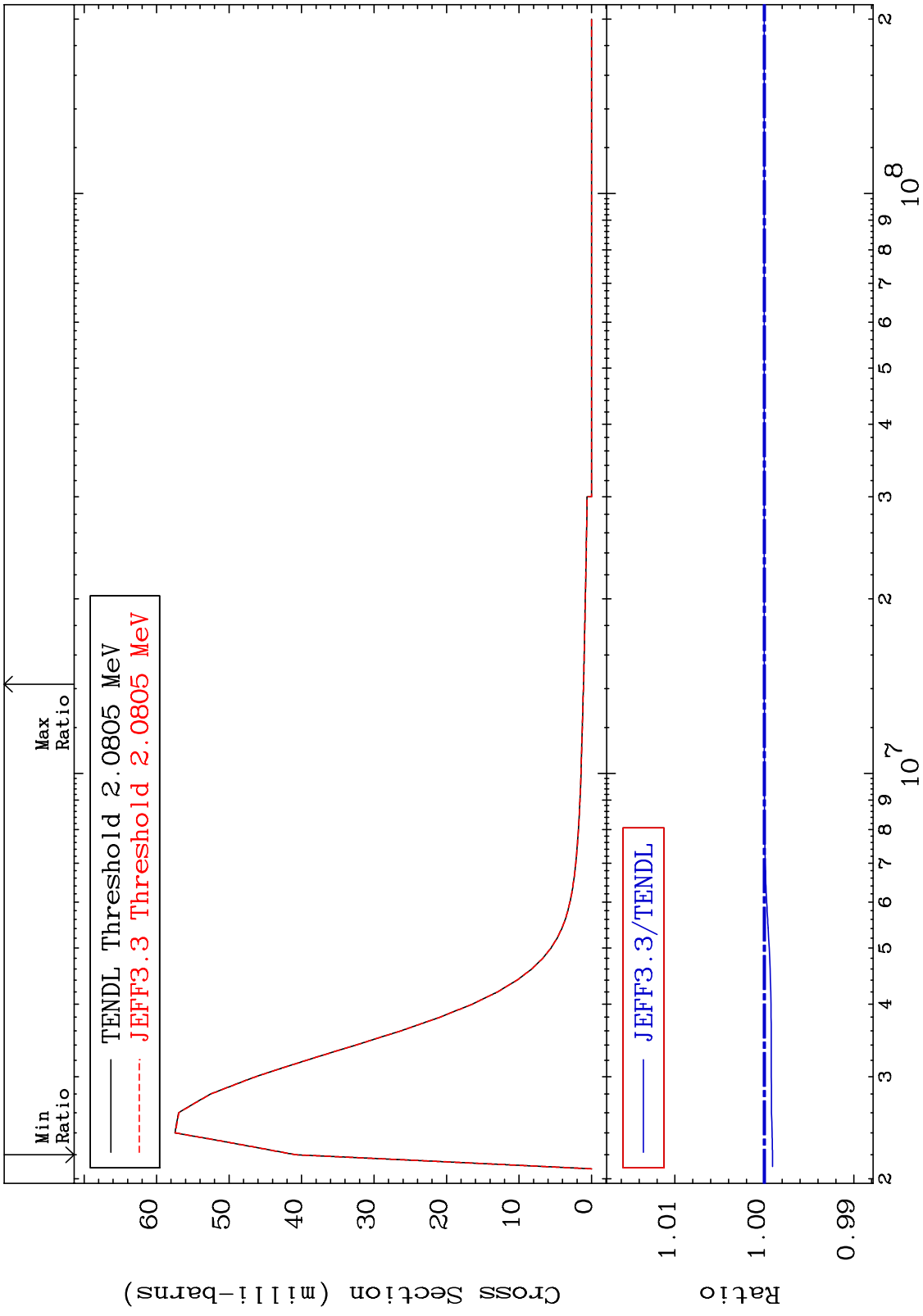
MAT 5431 MT= 63 (n,n') Level Cross Section 54-Xe-126 -0.098 To 0.000 %



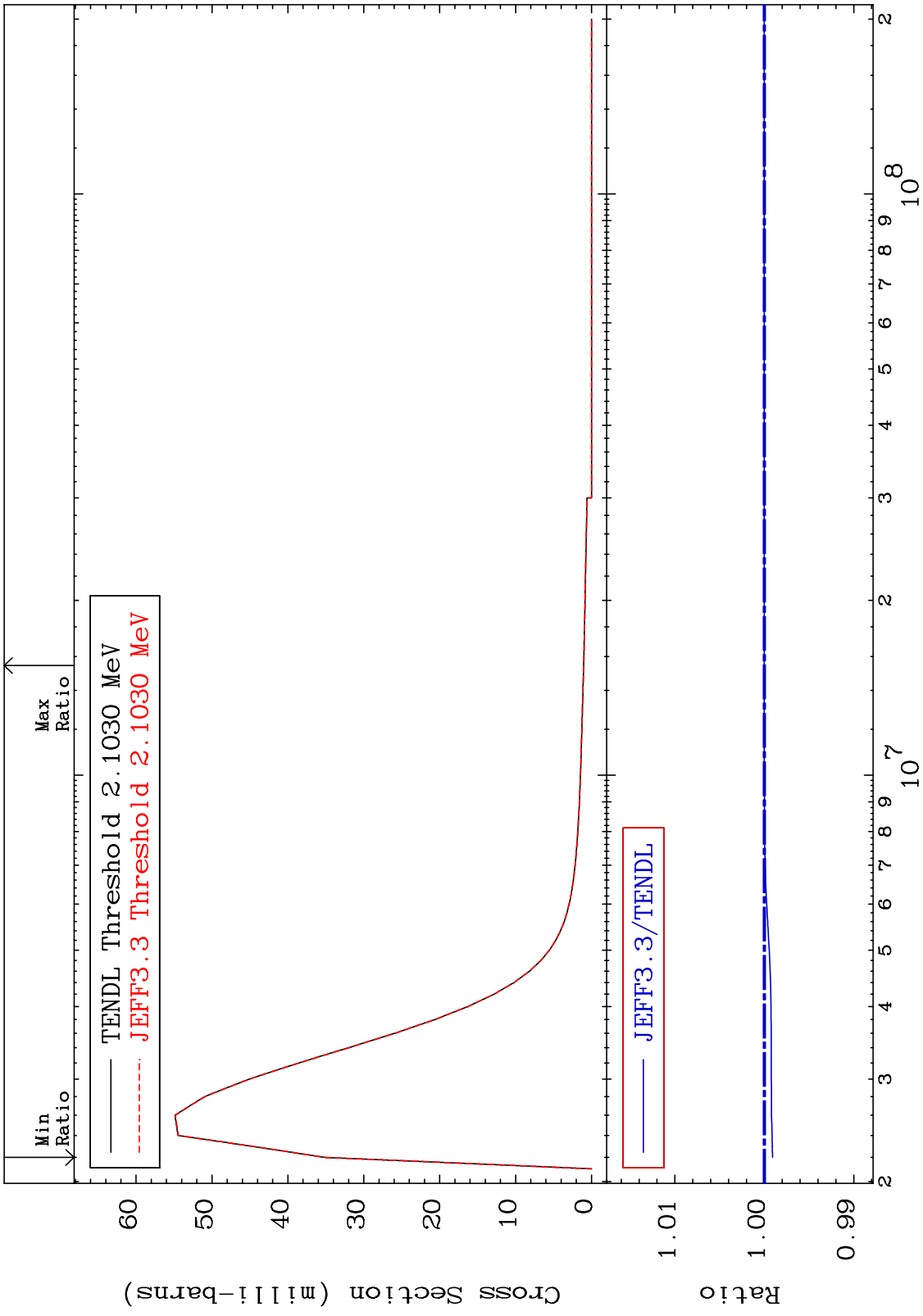
MAT 5431 MT= 64 (n,n') Level Cross Section 54-Xe-126 -0.151 To 0.000 %



MAT 5431 MT= 65 (n,n') Level Cross Section 54-Xe-126 -0.092 To 0.000 %



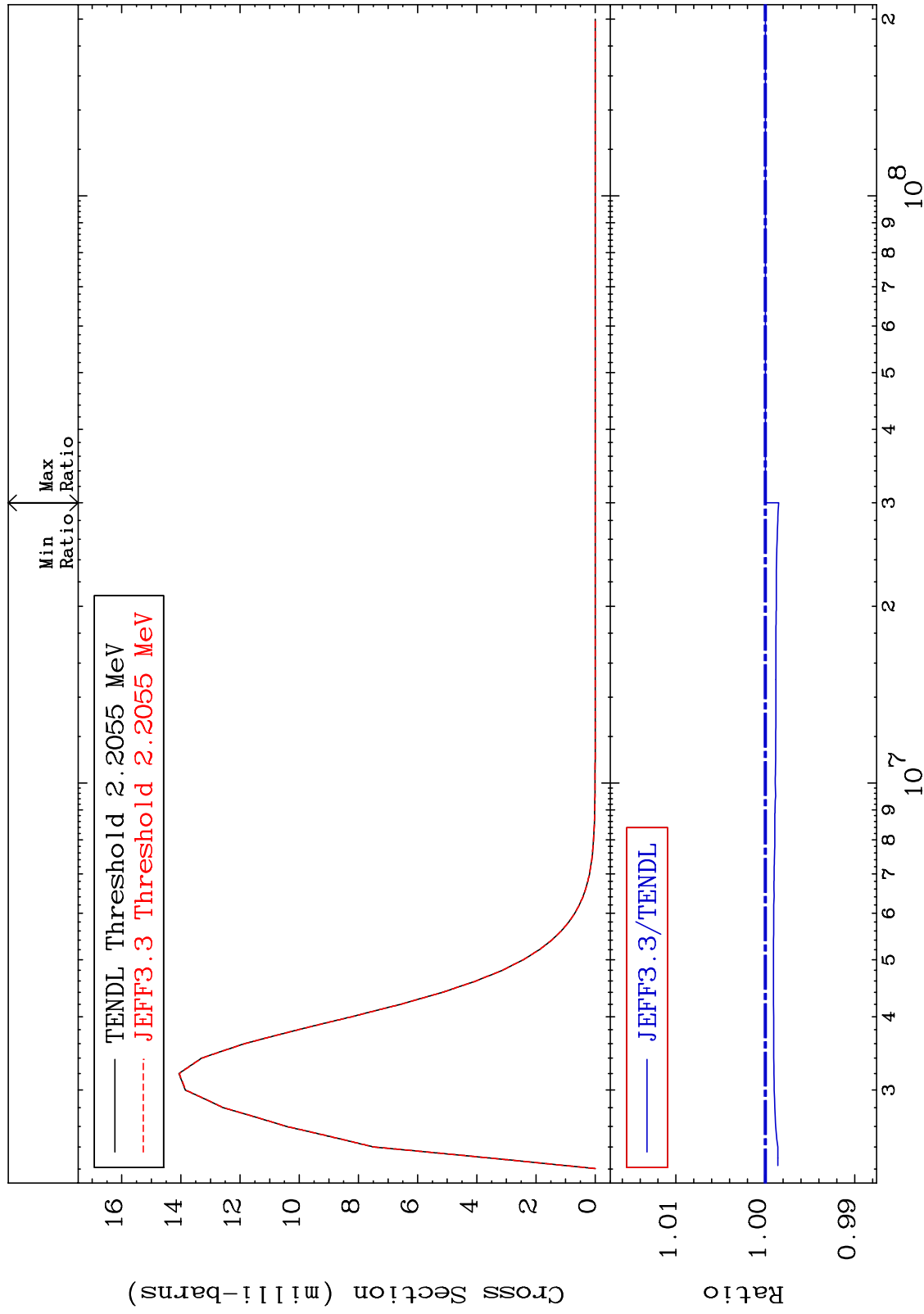
MAT 5431 MT= 66 (n,n') Level Cross Section 54-Xe-126 -0.092 To 0.000 %



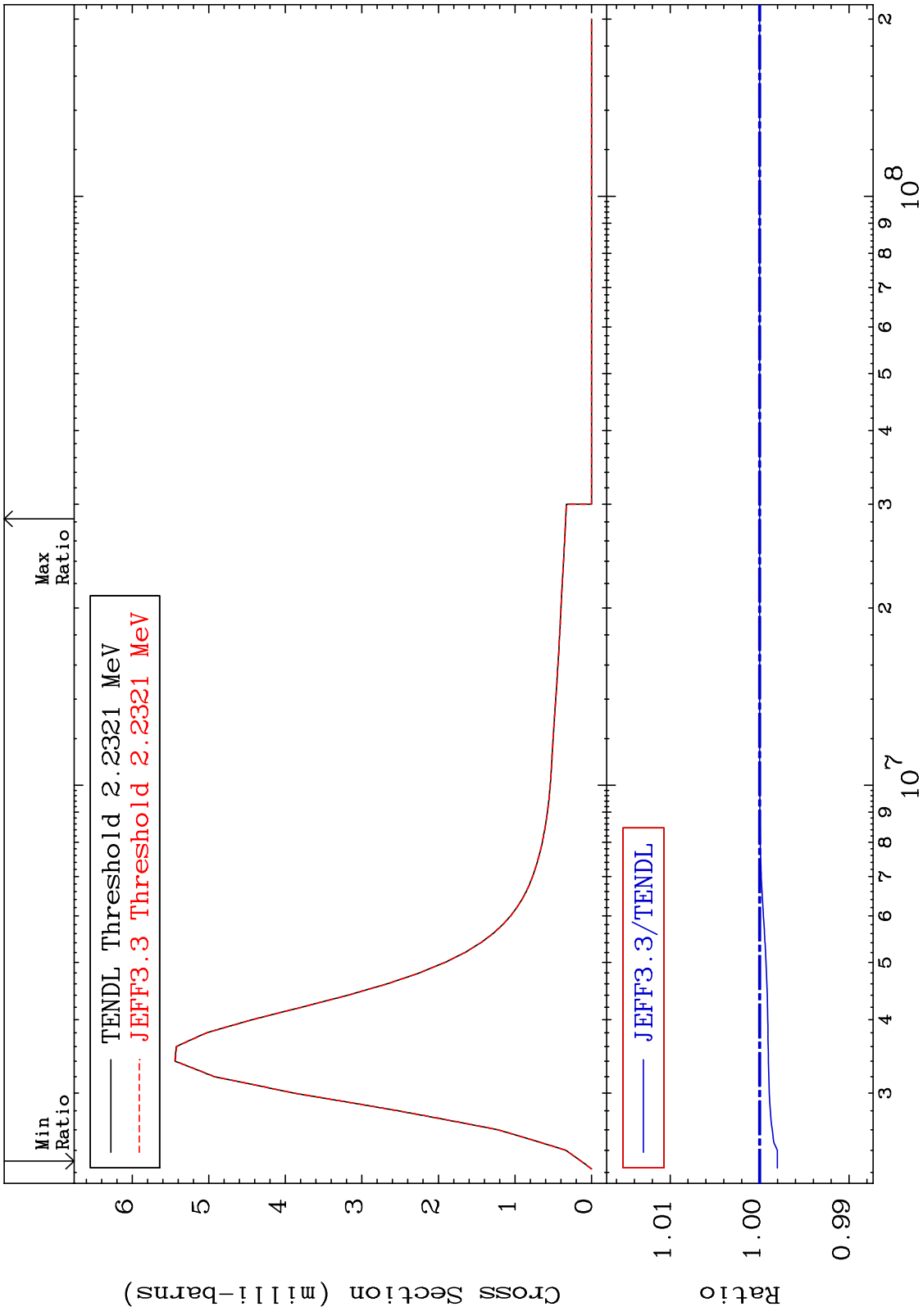
MAT 5431

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

54-Xe-126
-0.150 To 0.000 %



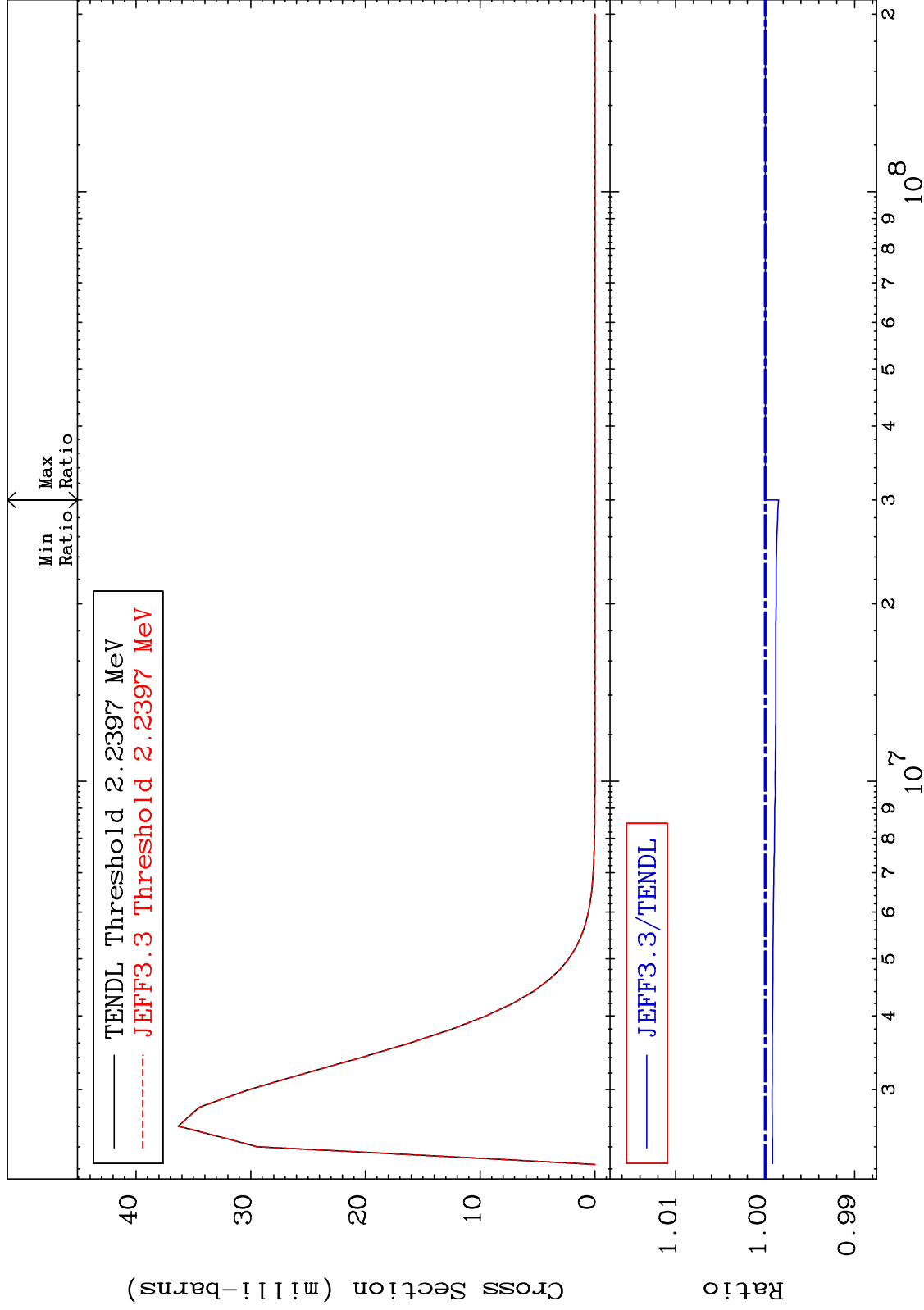
MAT 5431 MT= 68 (n, n') Level Cross Section 54-Xe-126 -0.197 To 0.000 %



MAT 5431

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

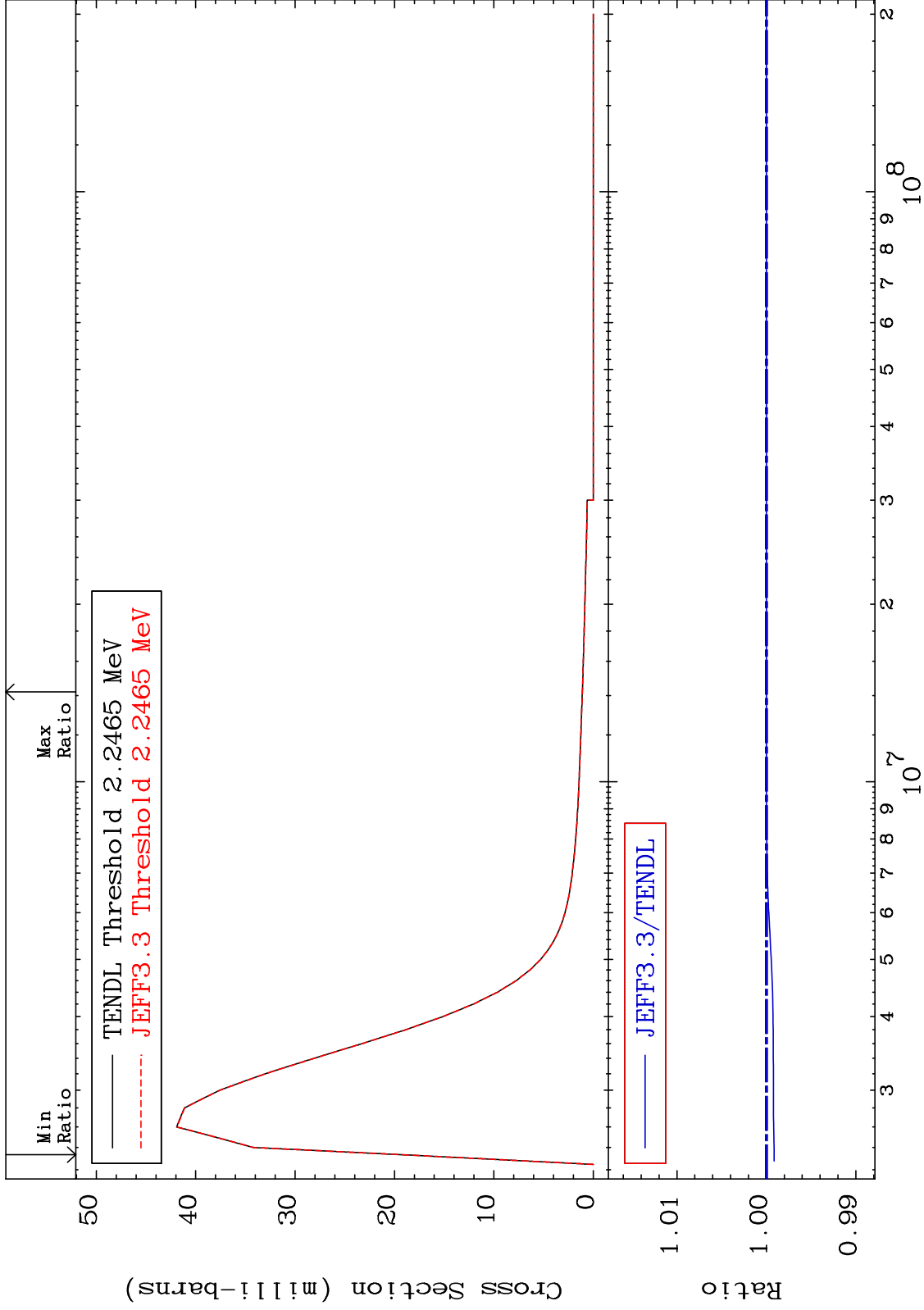
54-Xe-126
-0.150 To 0.000 %



MAT 5431

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

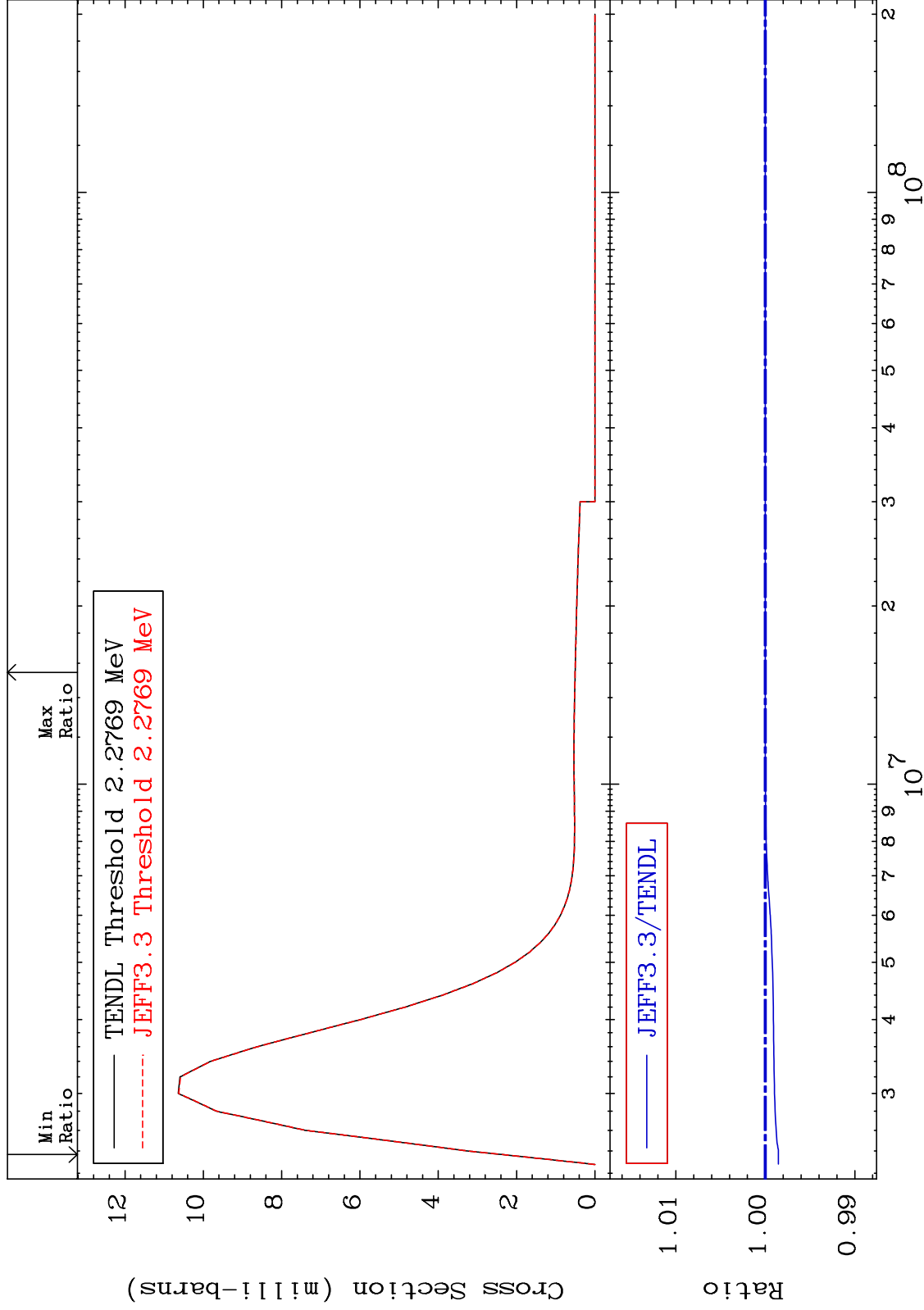
54-Xe-126
-0.086 To 0.000 %



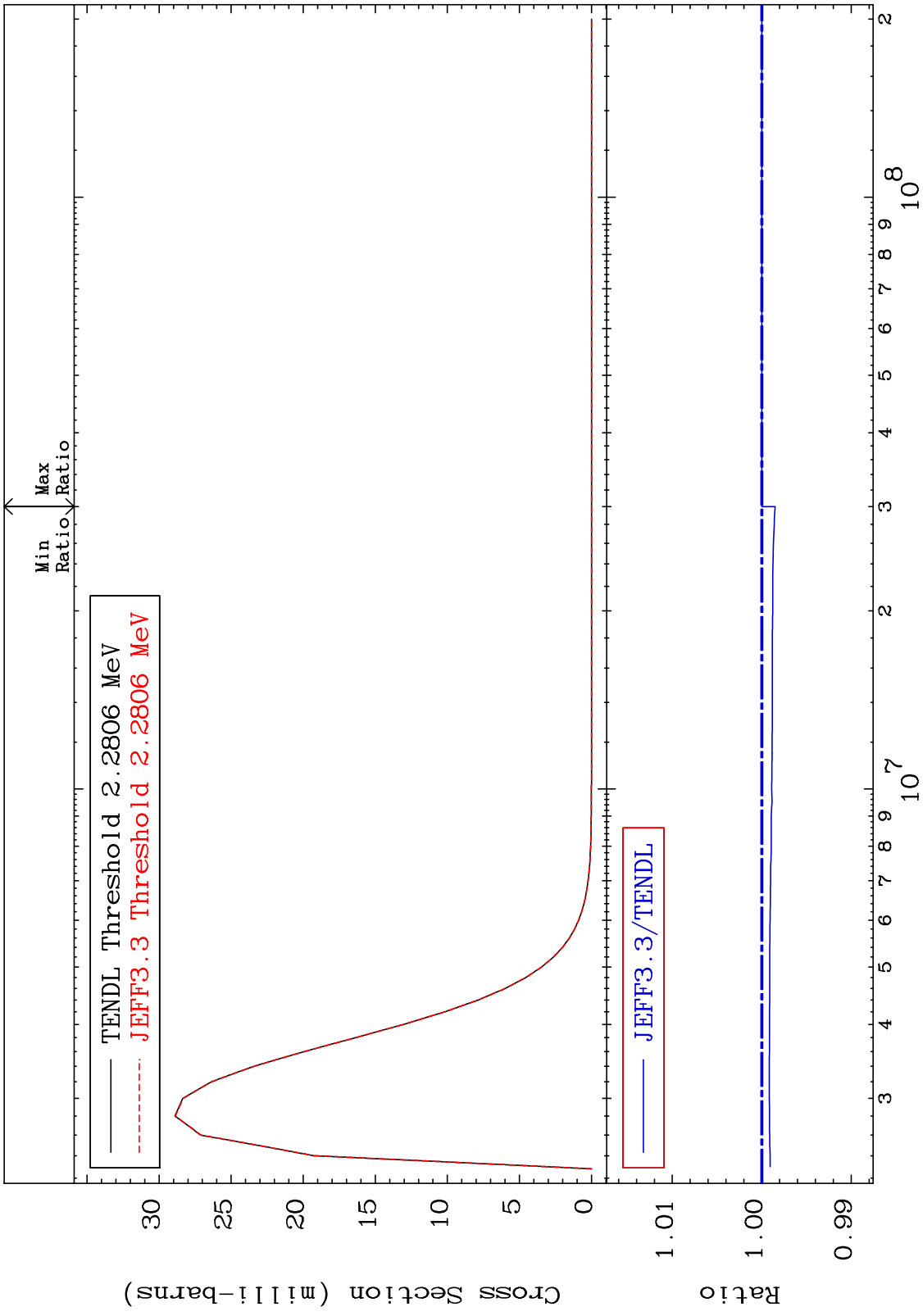
MAT 5431

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

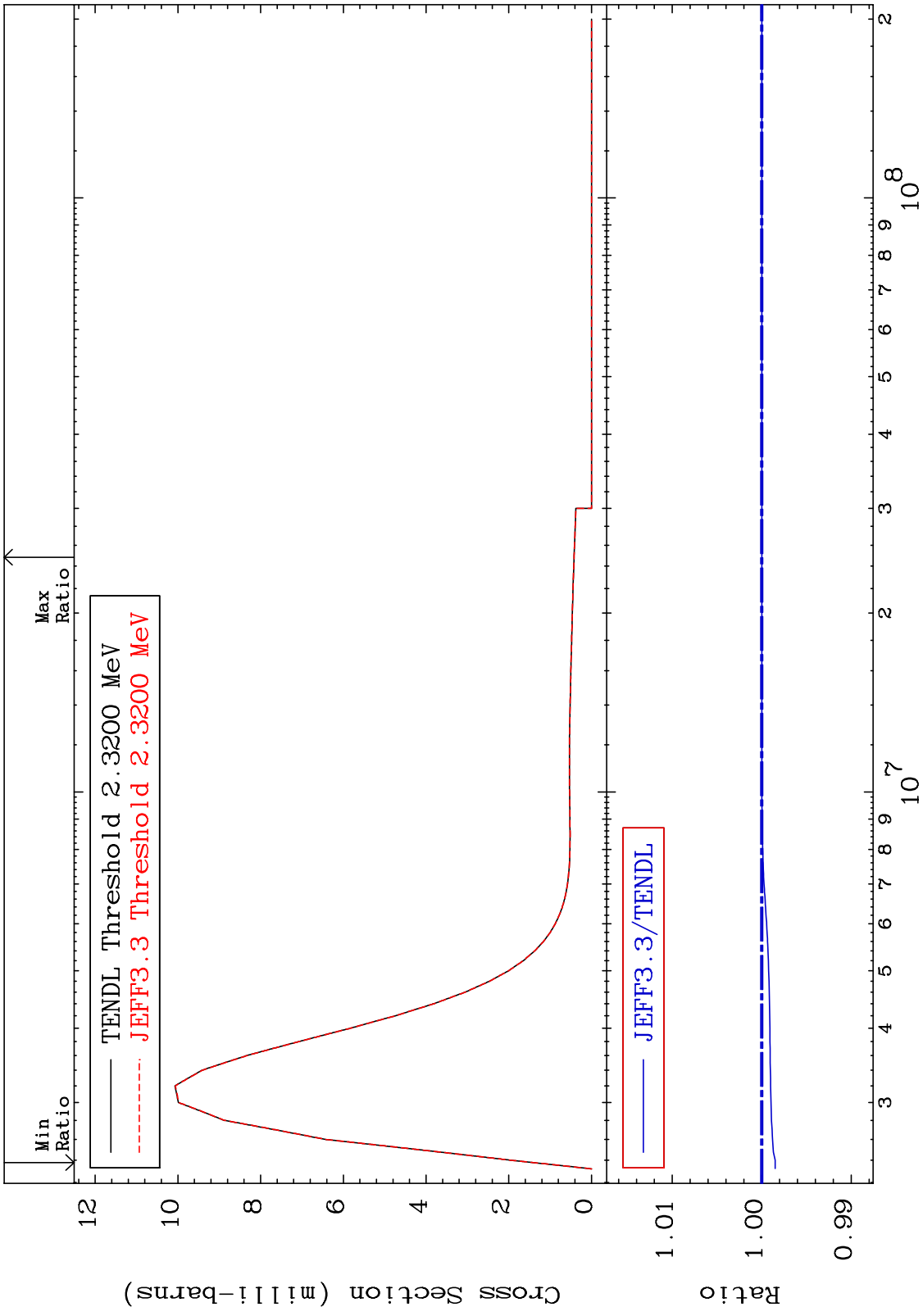
54-Xe-126
-0.147 To 0.000 %



MAT 5431 MT= 72 (n,n') Level Cross Section 54-Xe-126 -0.150 To 0.000 %



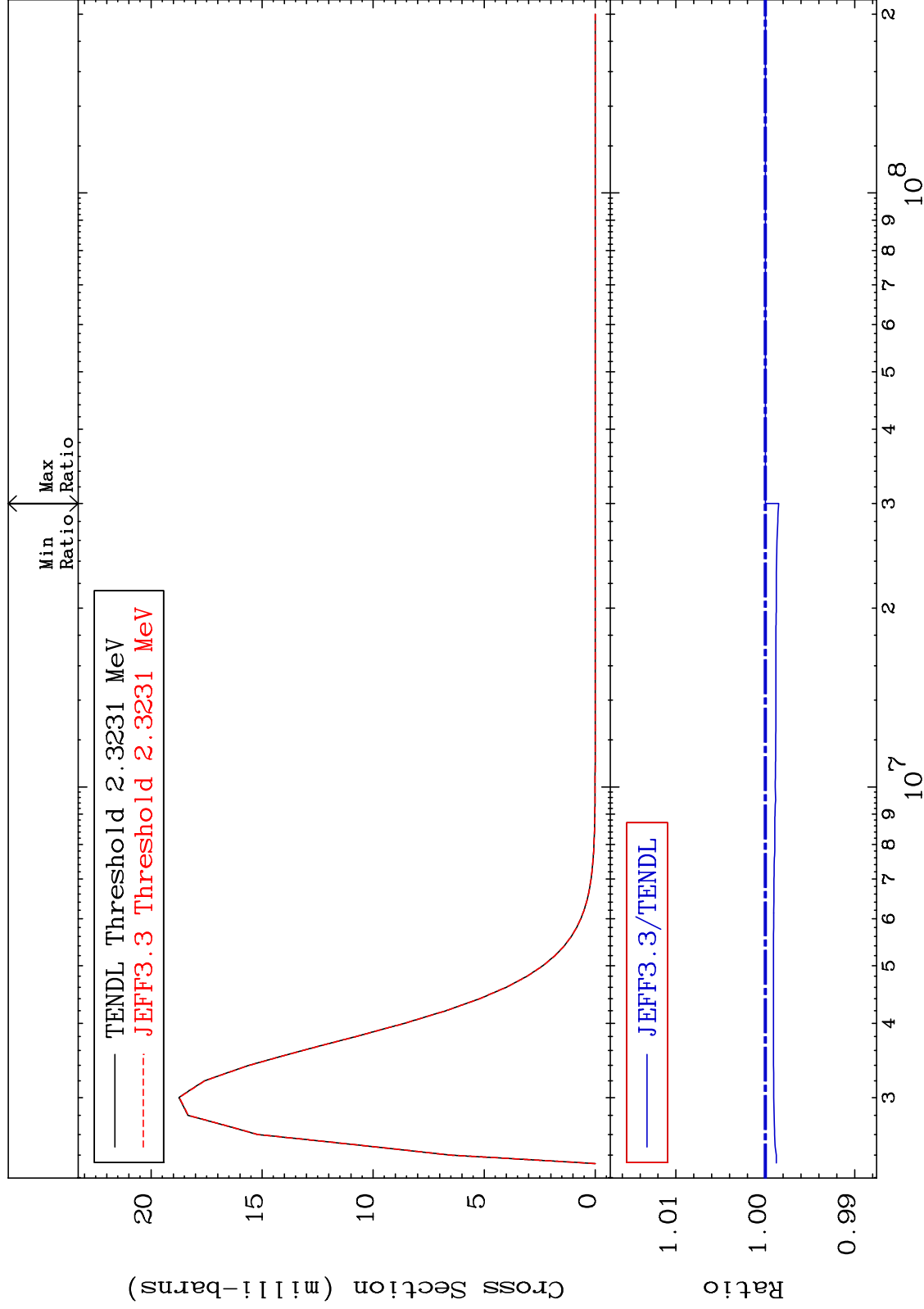
MAT 5431 MT= 73 (n,n') Level Cross Section 54-Xe-126 -0.150 To 0.000 %



MAT 5431

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

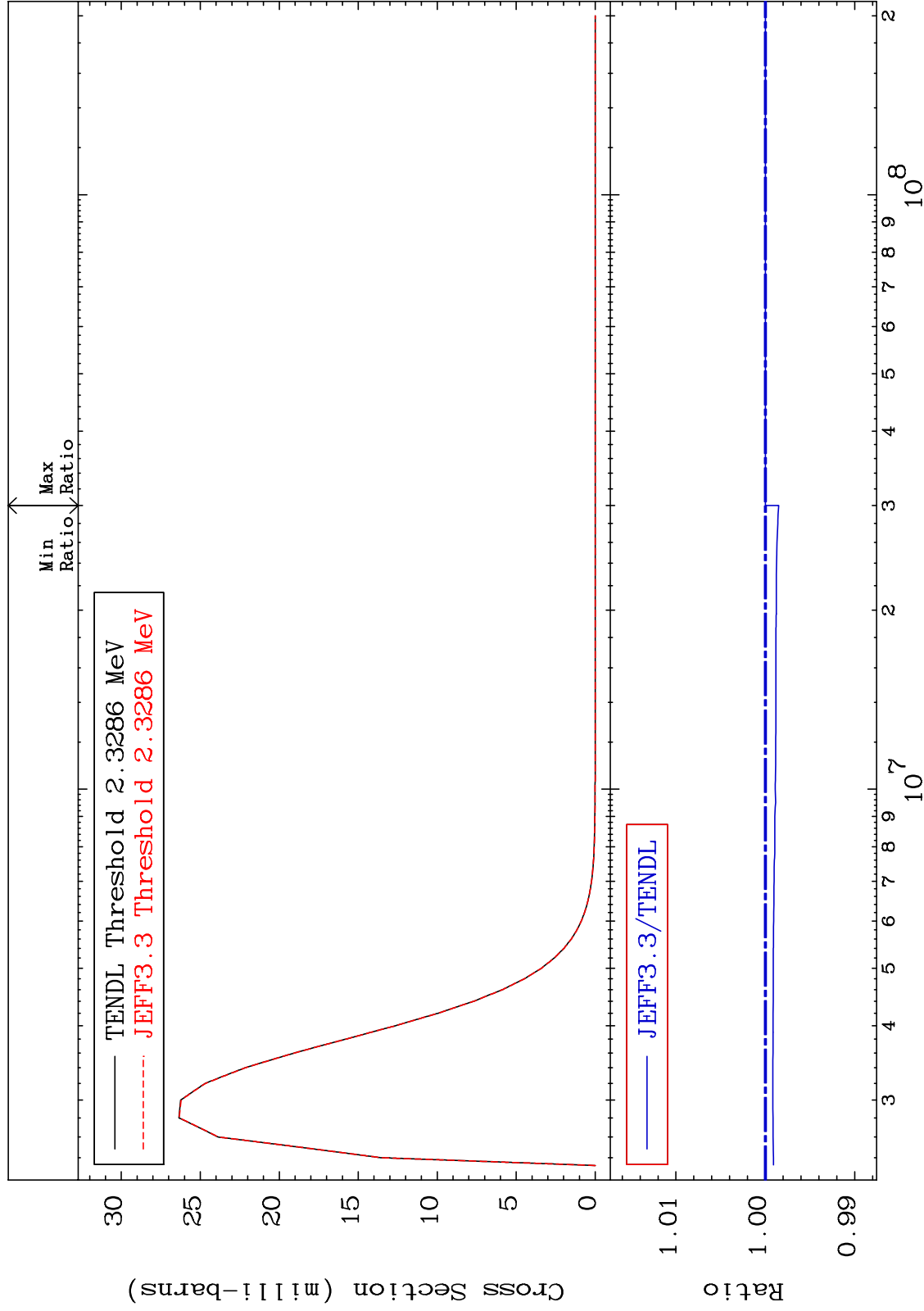
54-Xe-126
-0.150 To 0.000 %



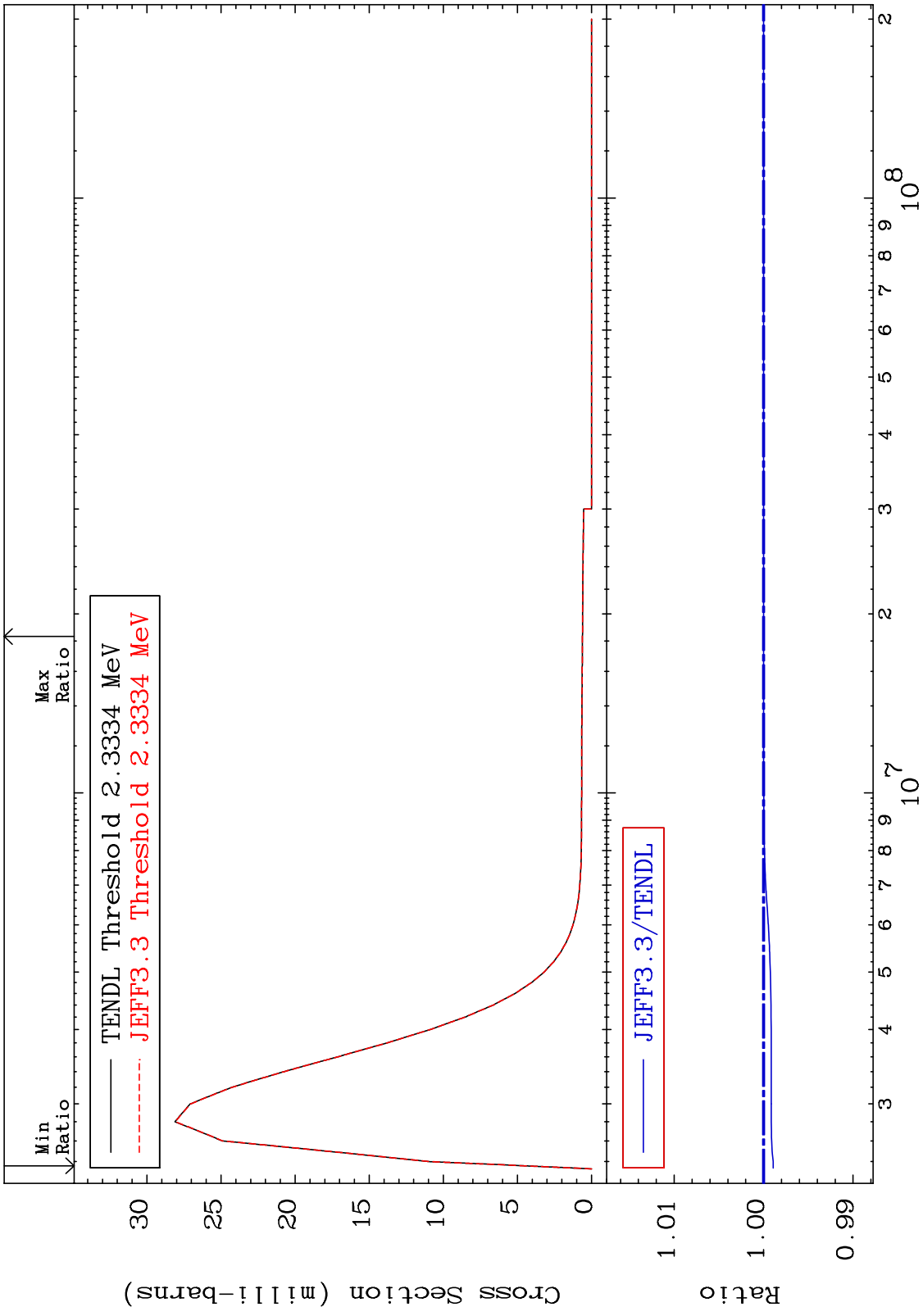
MAT 5431

MT= 75 (n,n') Level
Cross Section

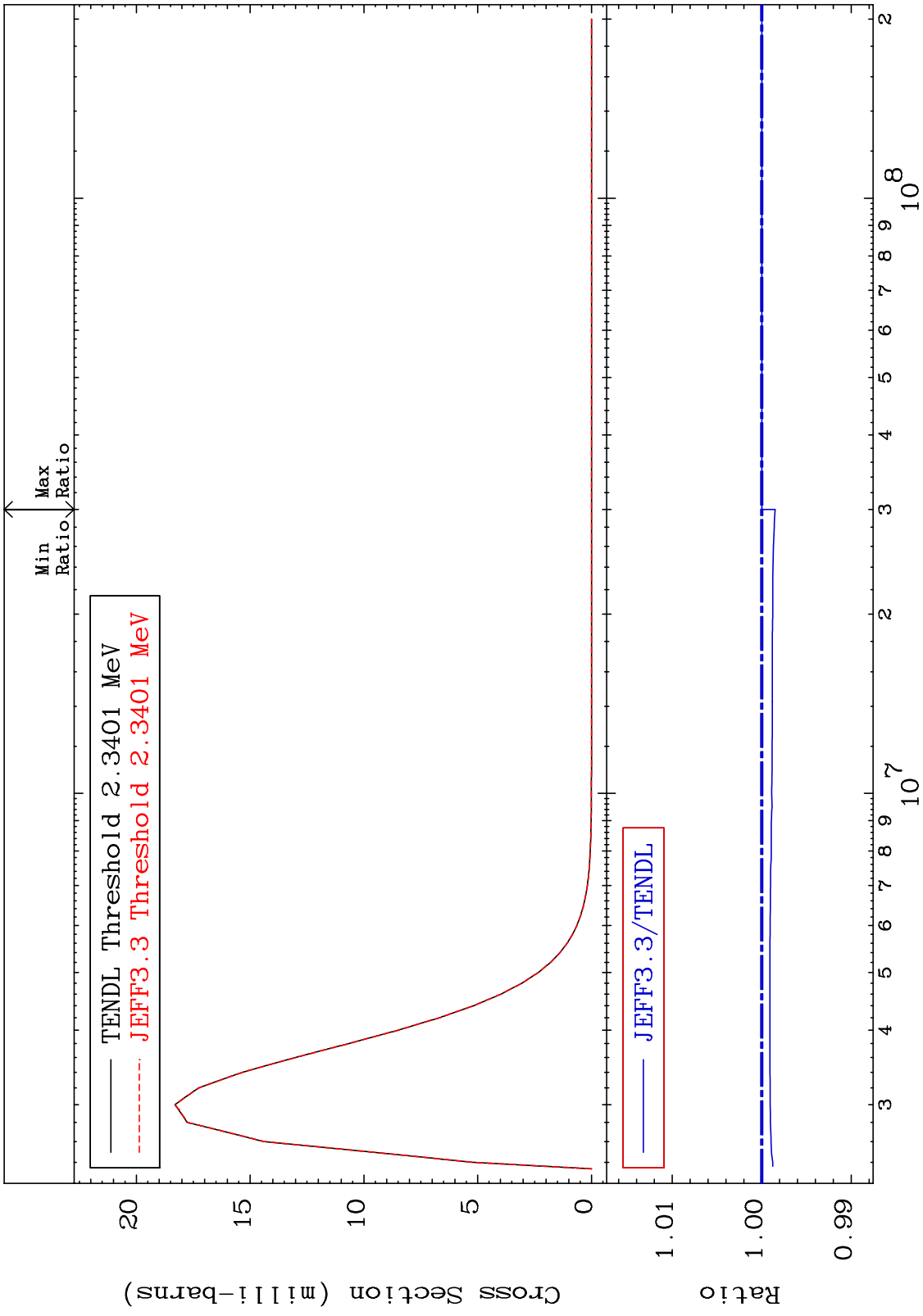
54-Xe-126
-0.150 To 0.000 %



MAT 5431 MT= 76 (n,n') Level Cross Section 54-Xe-126
 -0.108 To 0.000 %

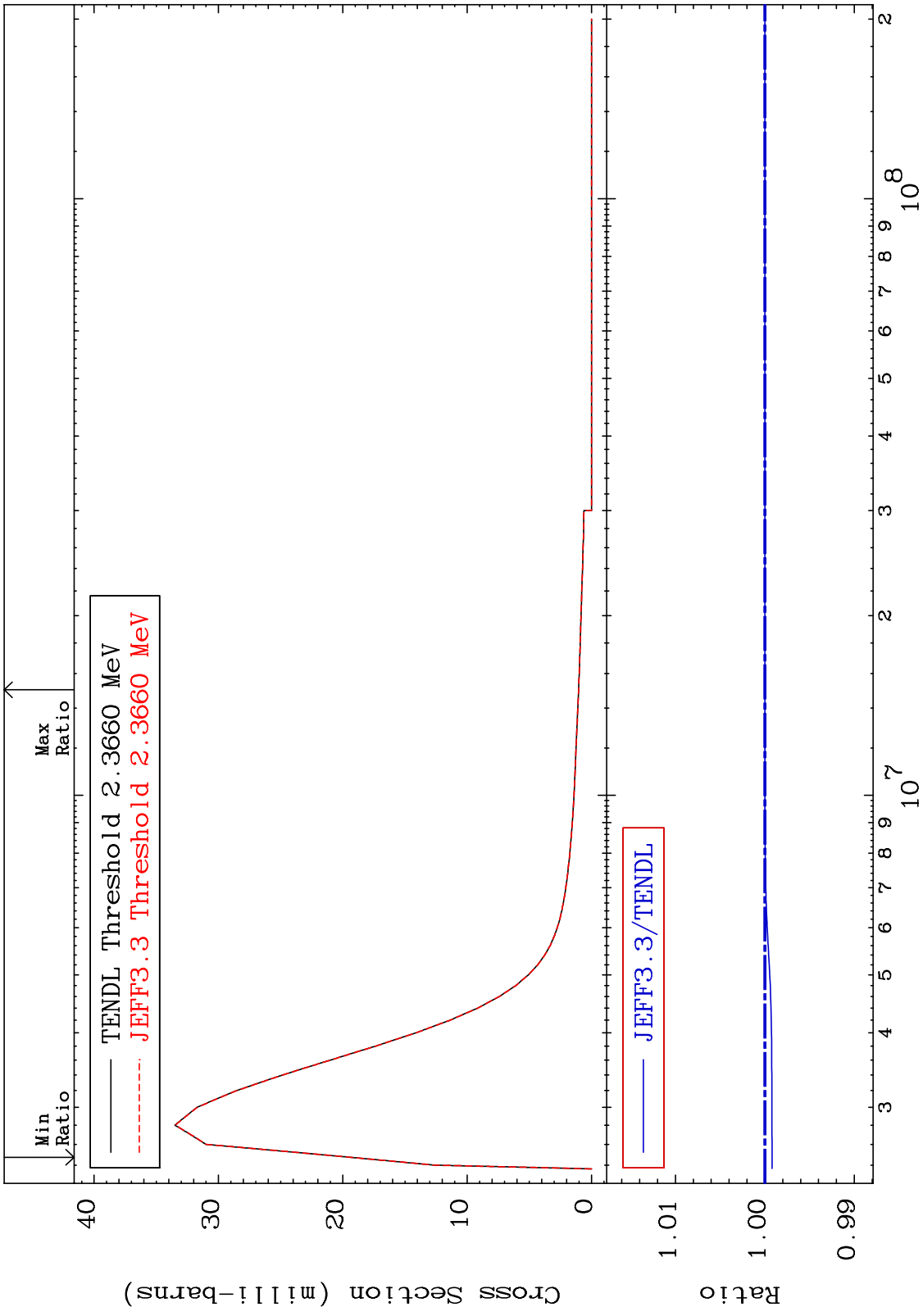


MAT 5431 MT= 77 (n,n') Level Cross Section 54-Xe-126 -0.150 To 0.000 %



46 54-Xe-126 Incident Energy (eV)

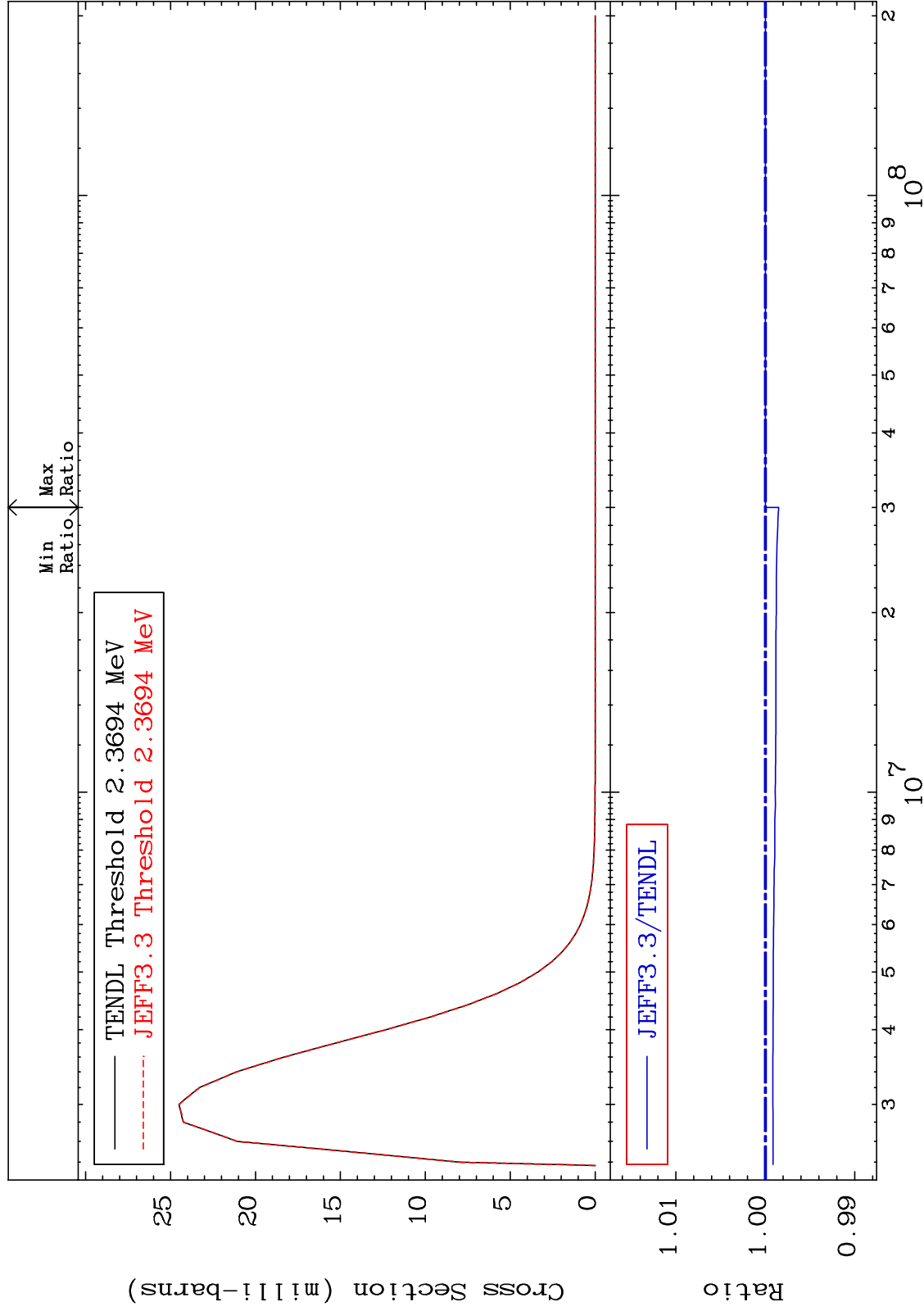
MAT 5431 MT= 78 (n,n') Level Cross Section 54-Xe-126
 -0.080 To 0.000 %



MAT 5431

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

54-Xe-126
-0.150 To 0.000 %



48

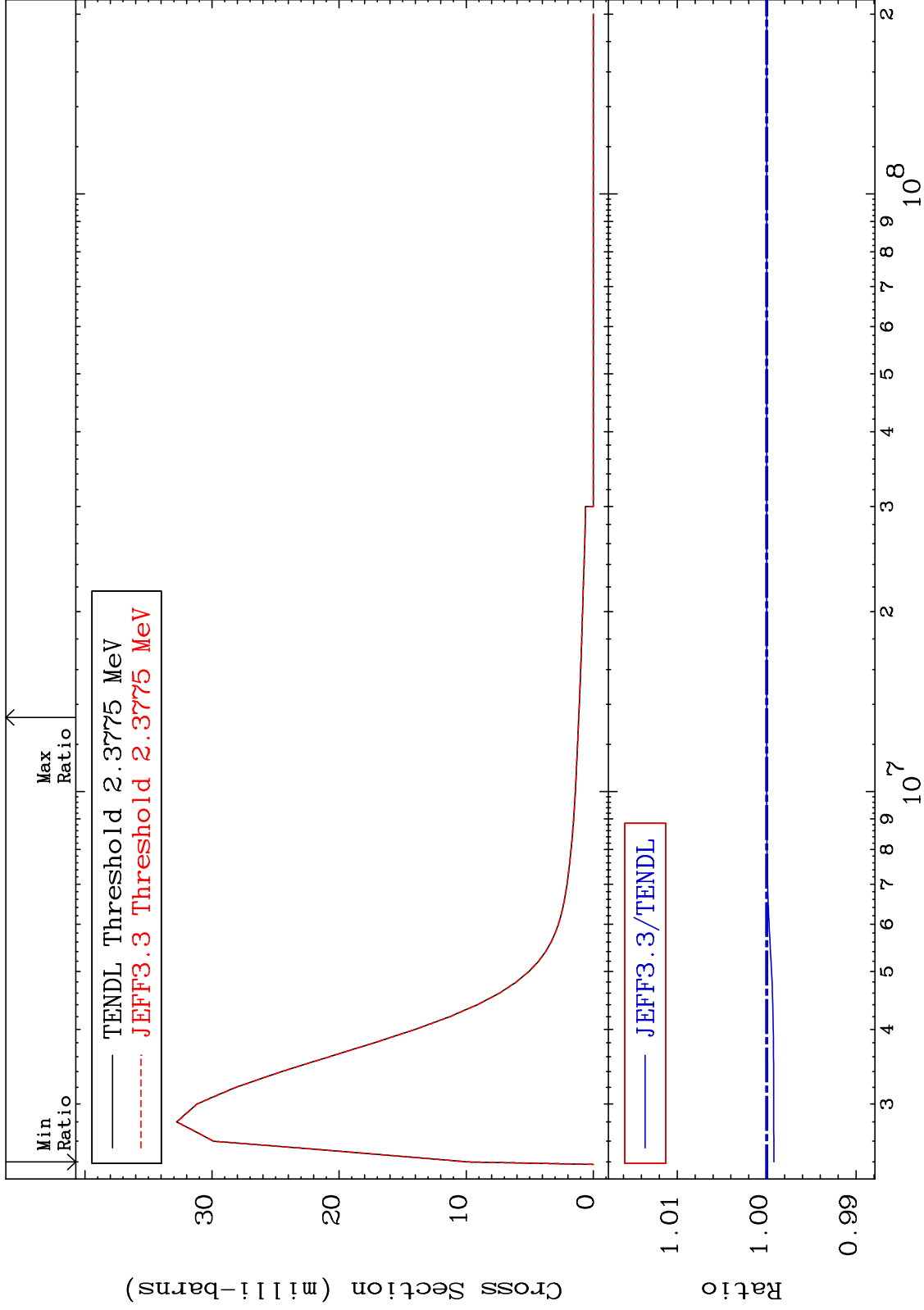
Incident Energy (eV)

54-Xe-126

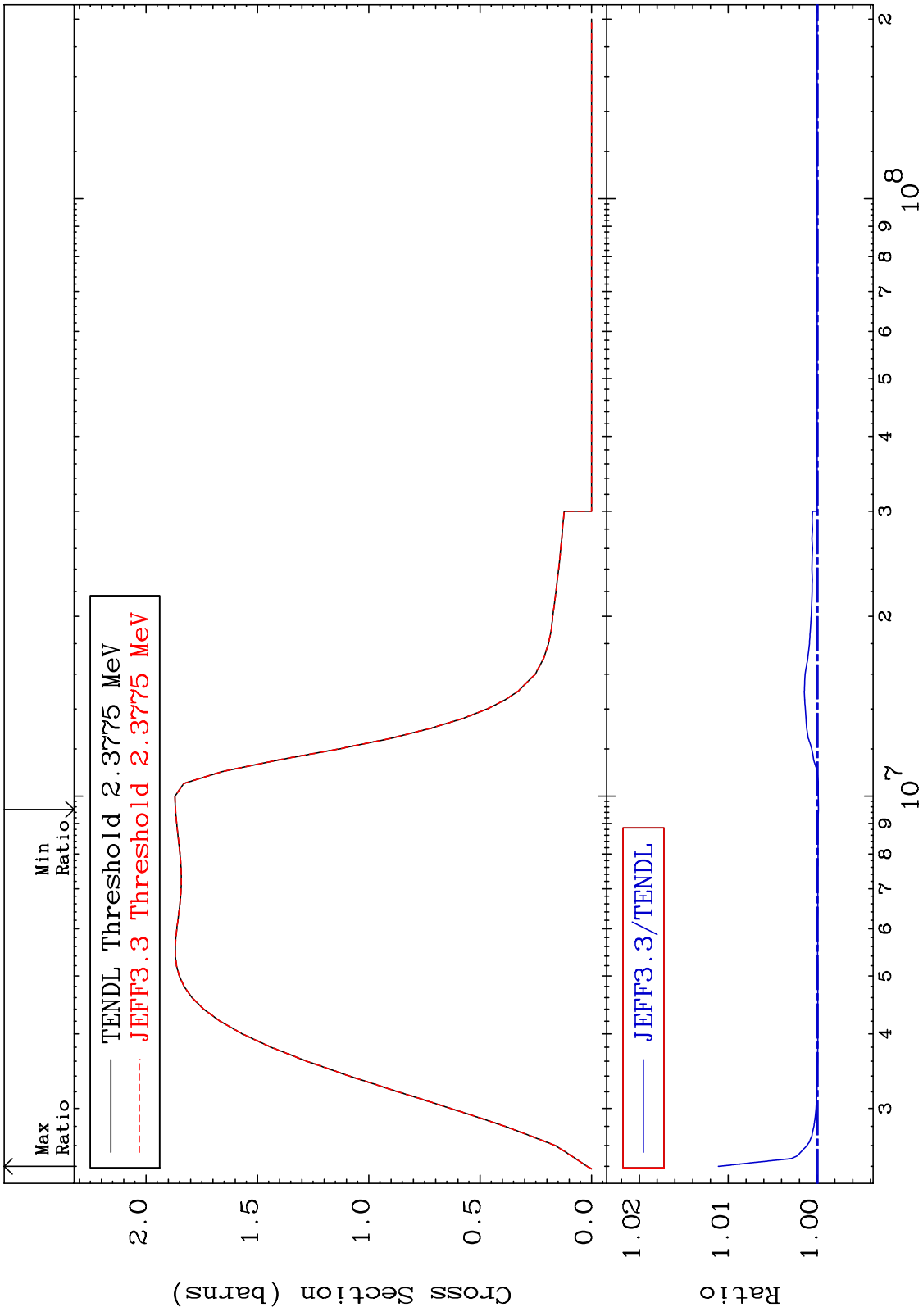
MAT 5431

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

54-Xe-126
-0.080 To 0.000 %

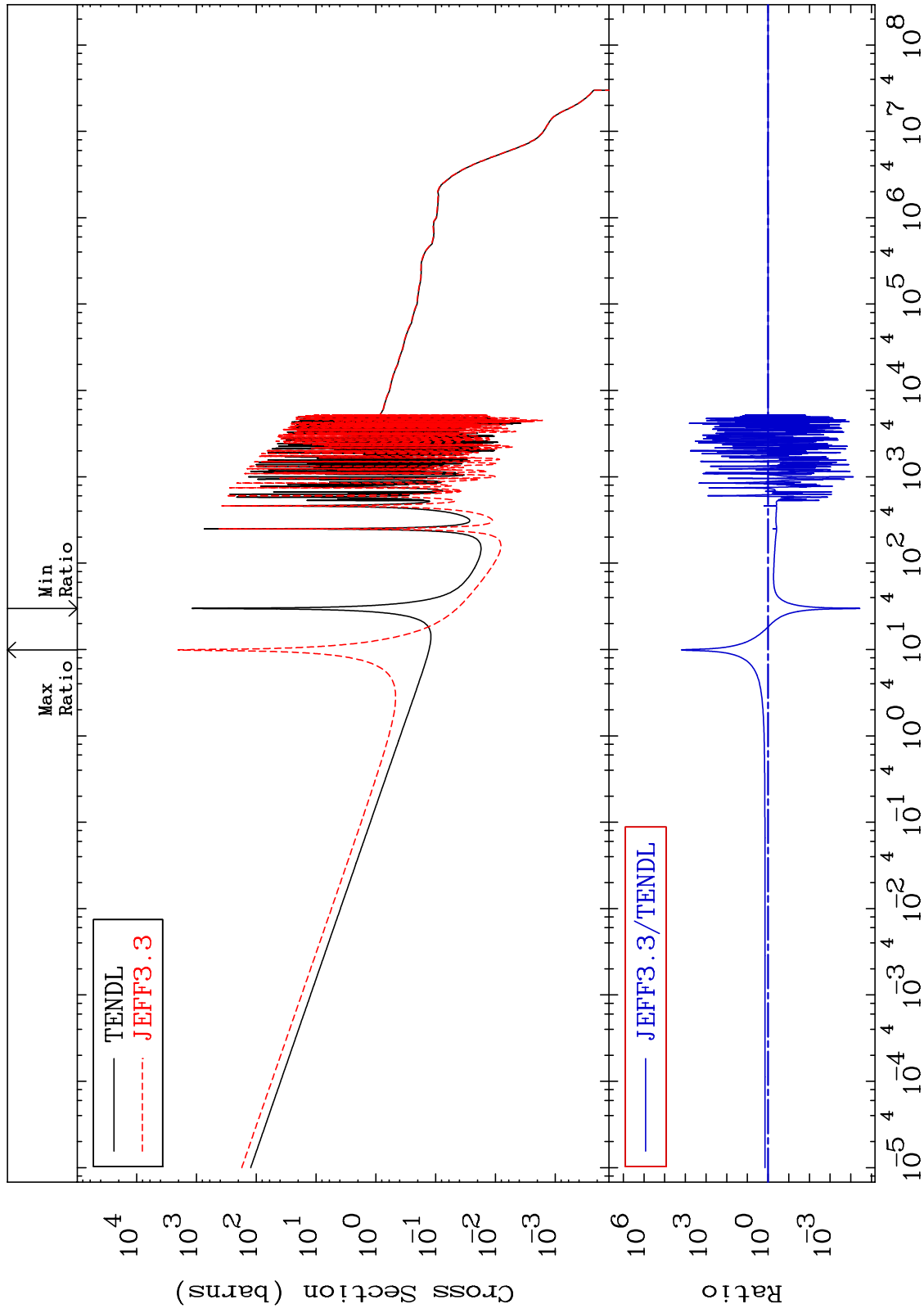


MAT 5431 (n,n') Continuum Cross Section 54-Xe-126 -0.016 To 1.111 %

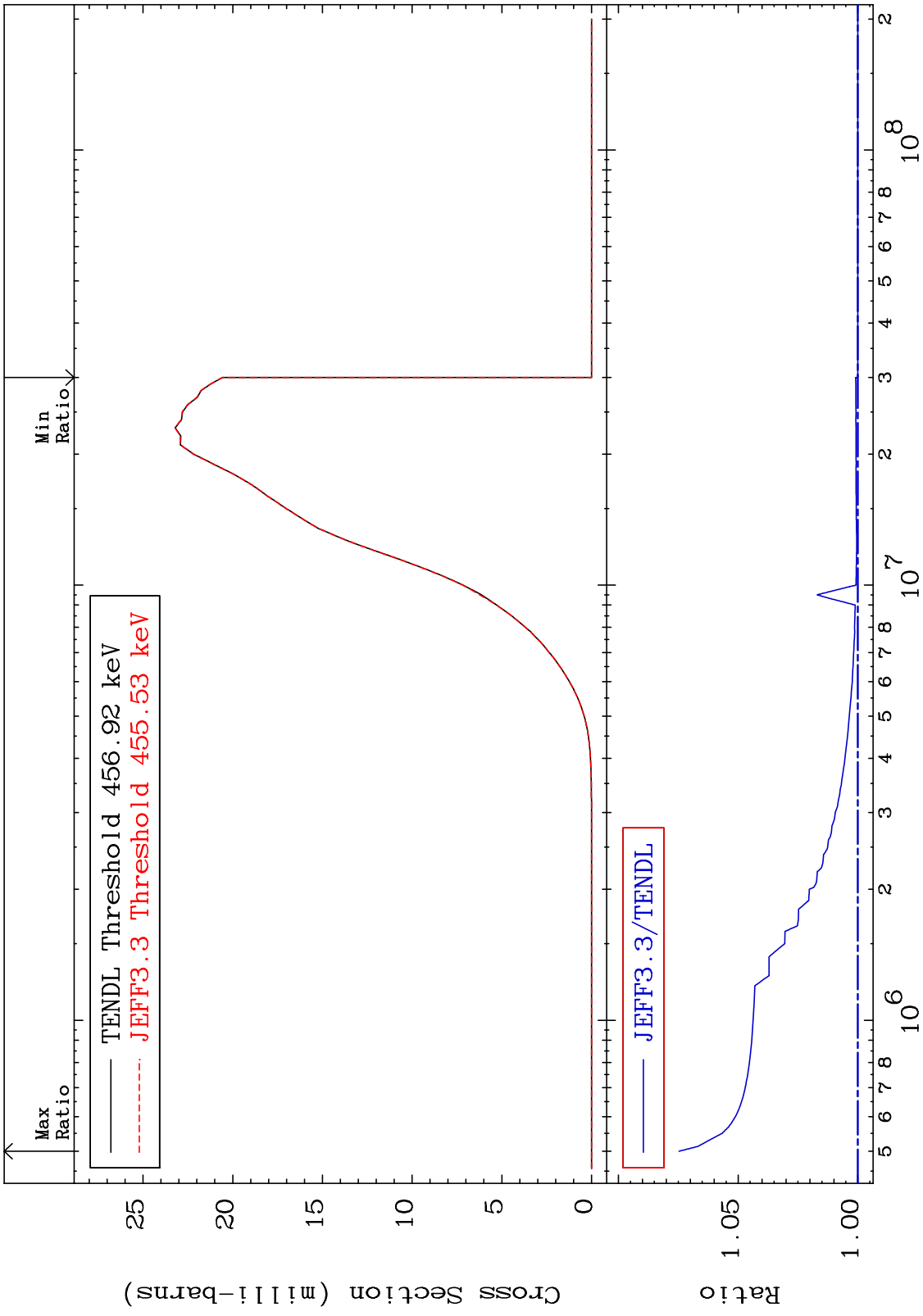


MAT 5431

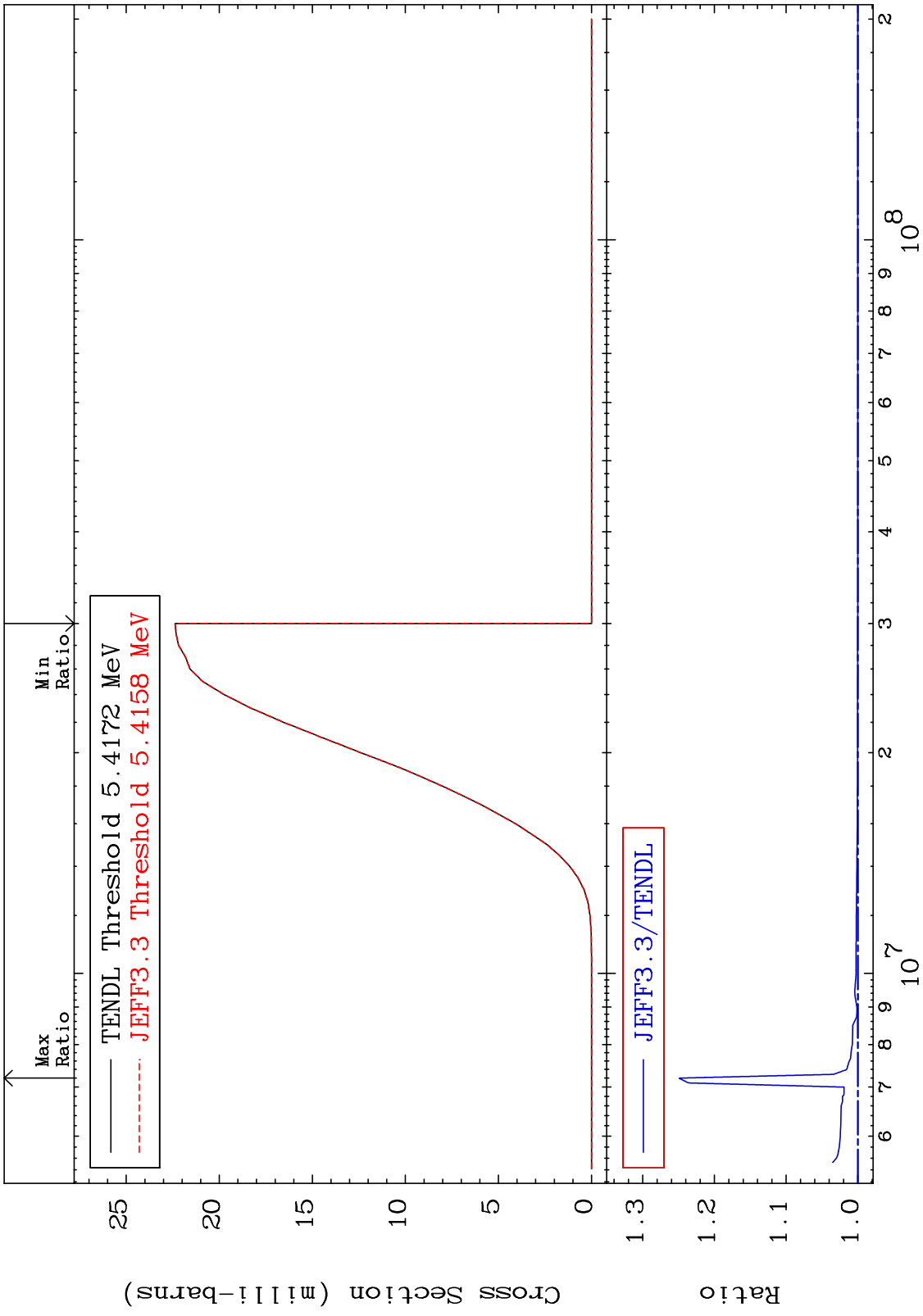
(n, γ) Cross Section
54-Xe-126
-100.0 To 9999. %



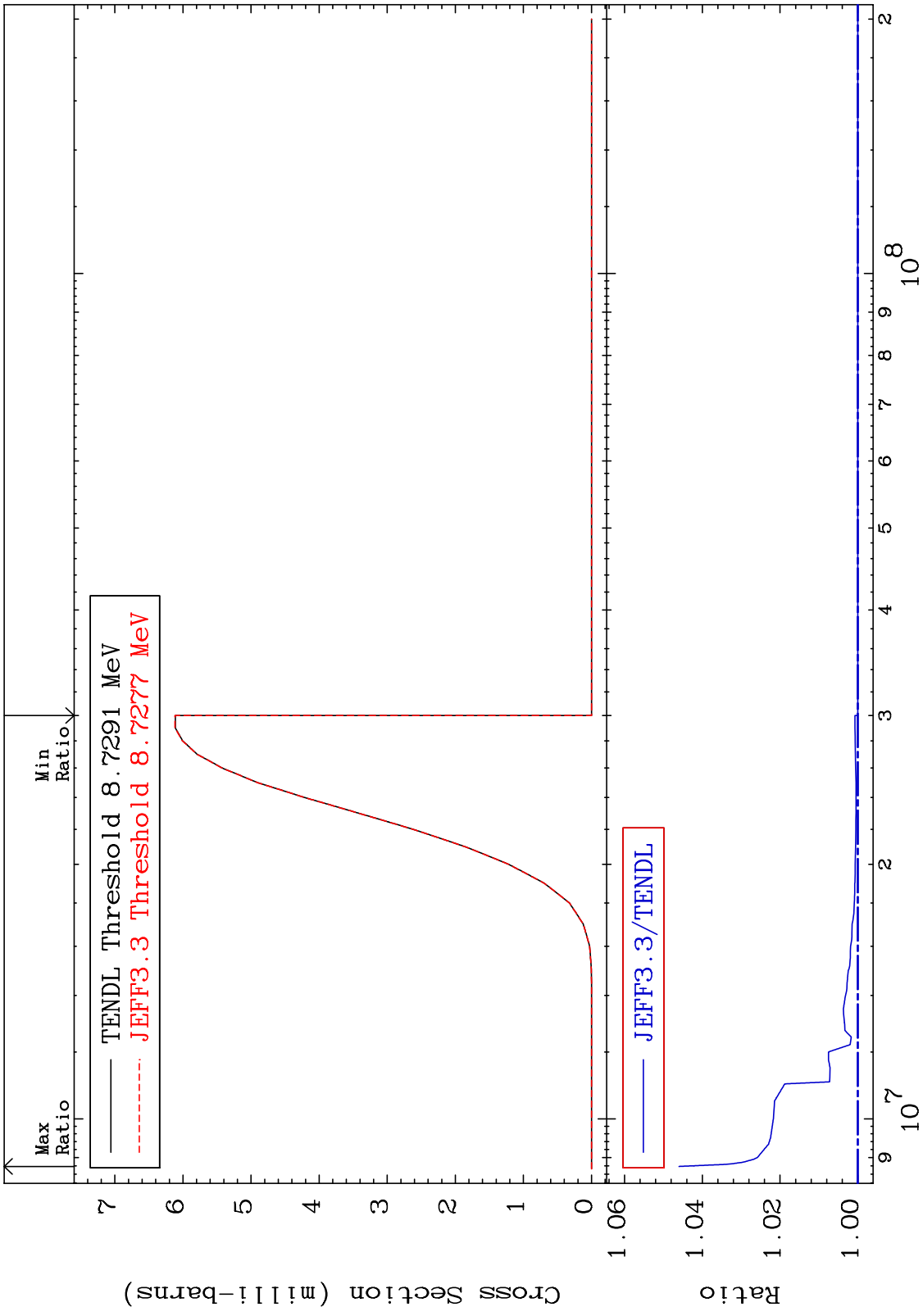
MAT 5431 (n,p) Cross Section 54-Xe-126 To 7.468 %



MAT 5431 (n,d) Cross Section 54-Xe-126 To 24.94 %

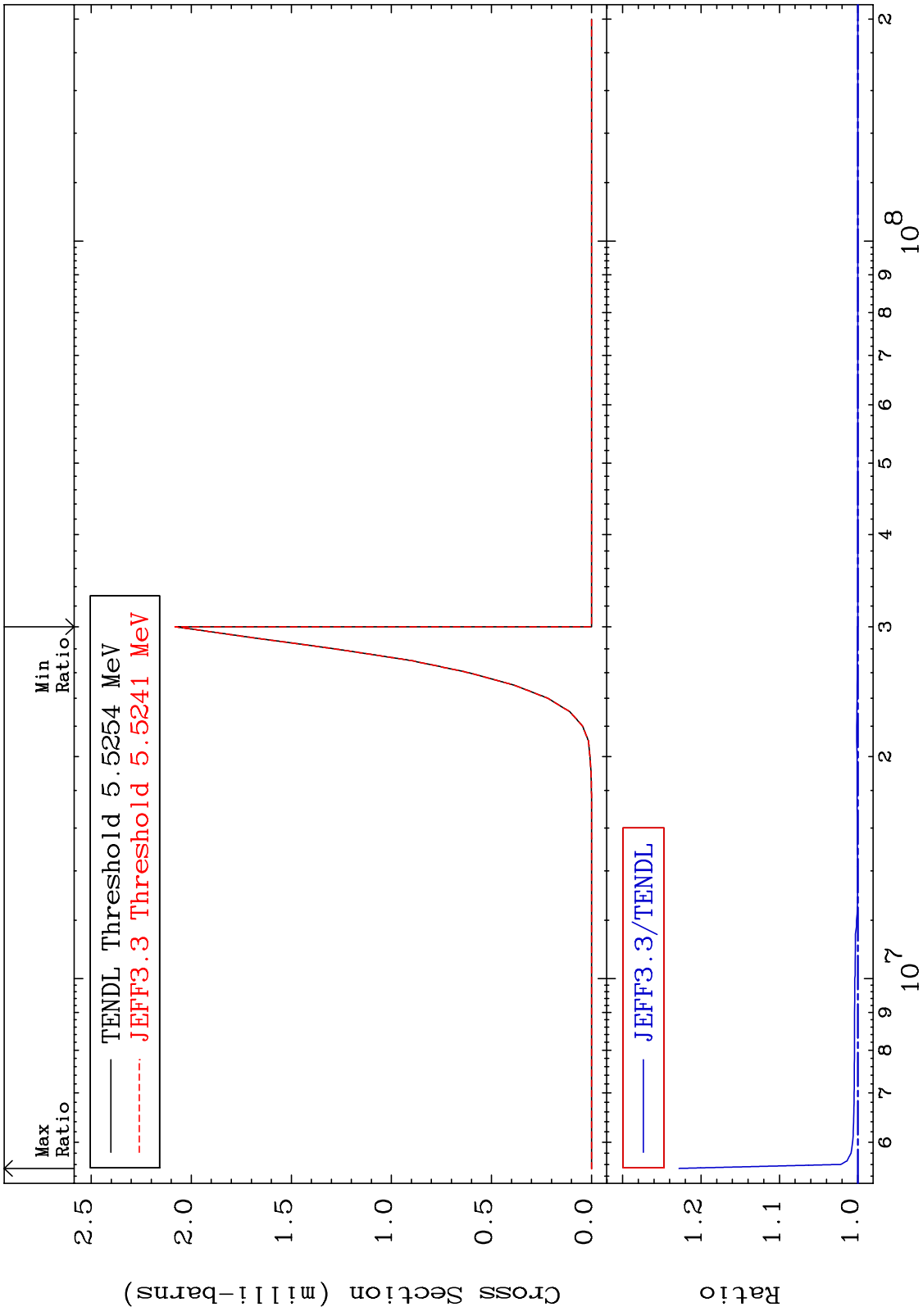


MAT 5431 (n,t) Cross Section 54-Xe-126 To 4.598 %



54 Incident Energy (eV) 54-Xe-126

MAT 5431 (n, He-3) Cross Section 54-Xe-126 To 22.80 %



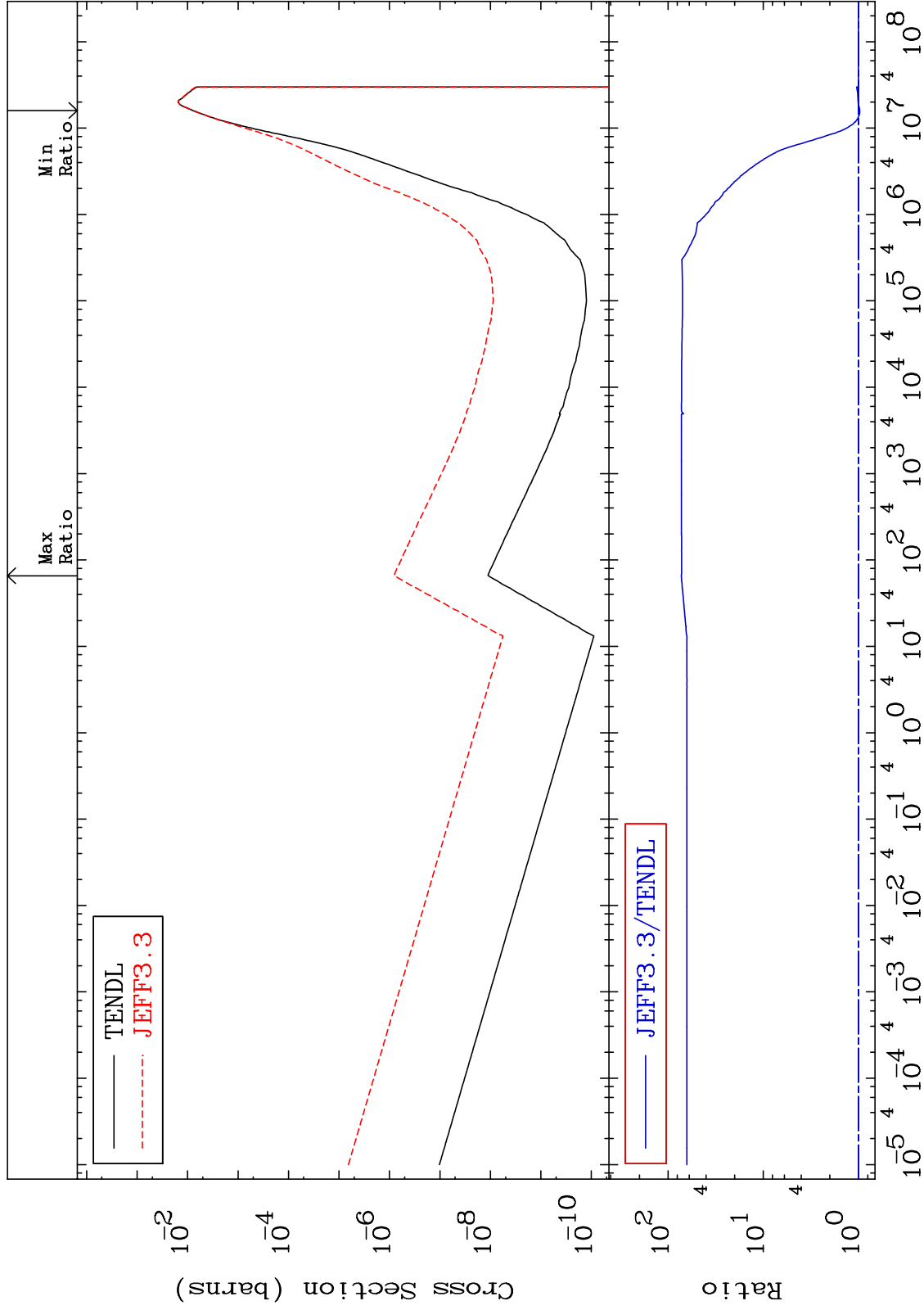
MAT 5431

(n, α)

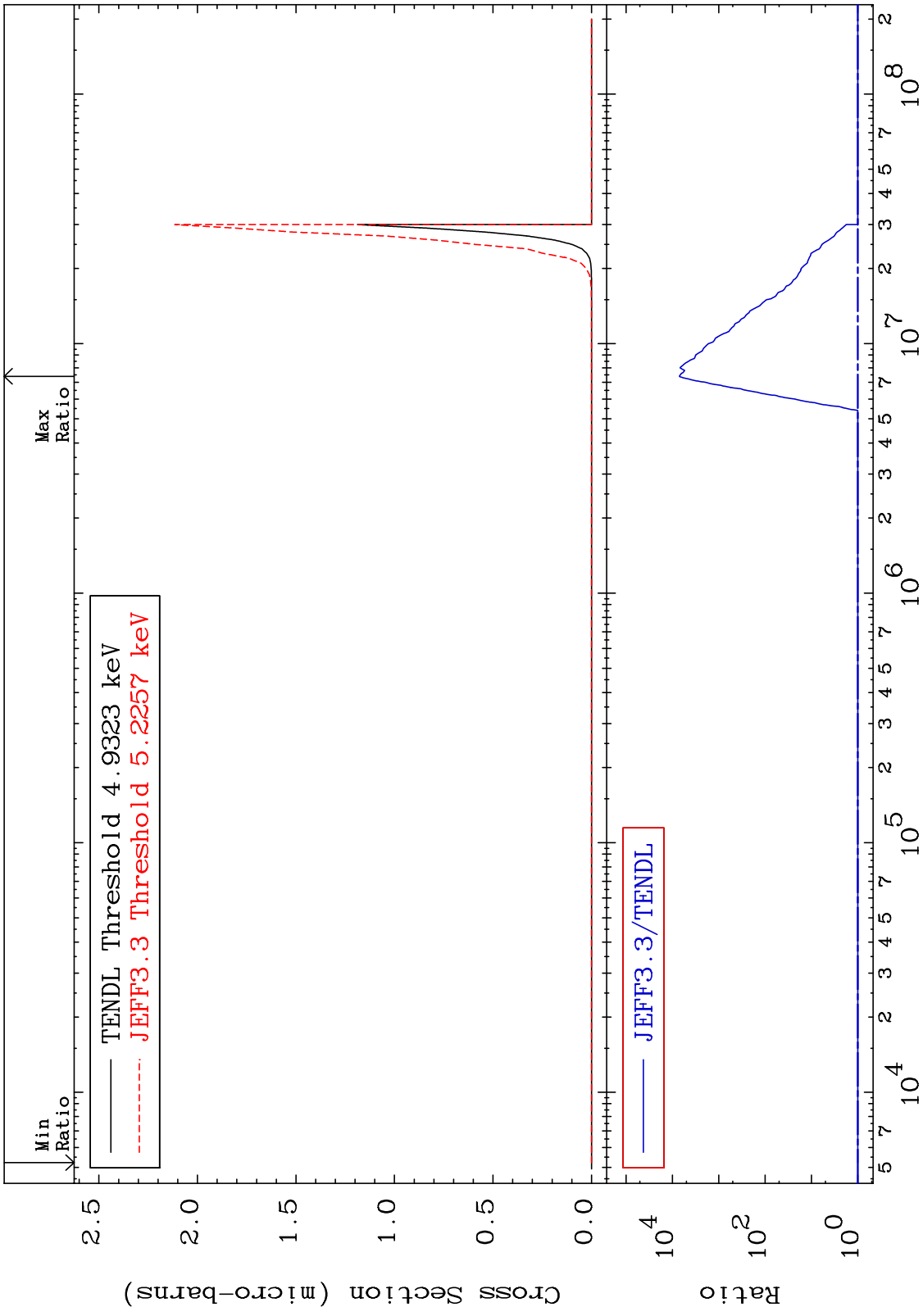
54-Xe-126

Cross Section

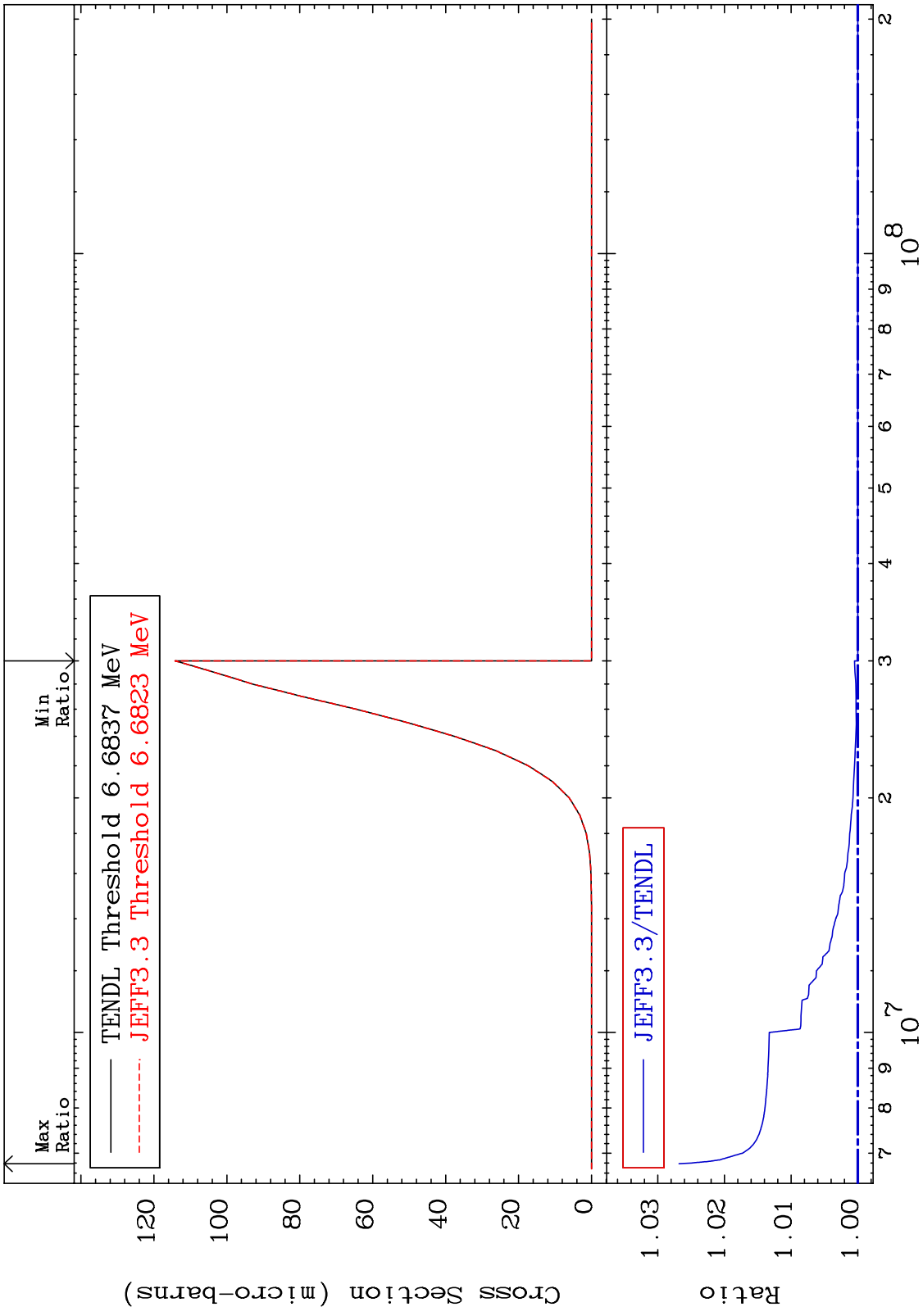
-3.091 To 7173. %



MAT 5431 (n,2α) Cross Section 54-Xe-126 To 9999. %



MAT 5431 (n,2p) Cross Section 54-Xe-126 To 2.680 %



MAT 5431

(n,p) α

54-Xe-126

Cross Section

Cross Section

Max Ratio

Min Ratio

TENDL Threshold 2.4738 MeV
JEFF3.3 Threshold 2.4742 MeV

Cross Section (micro-barns)

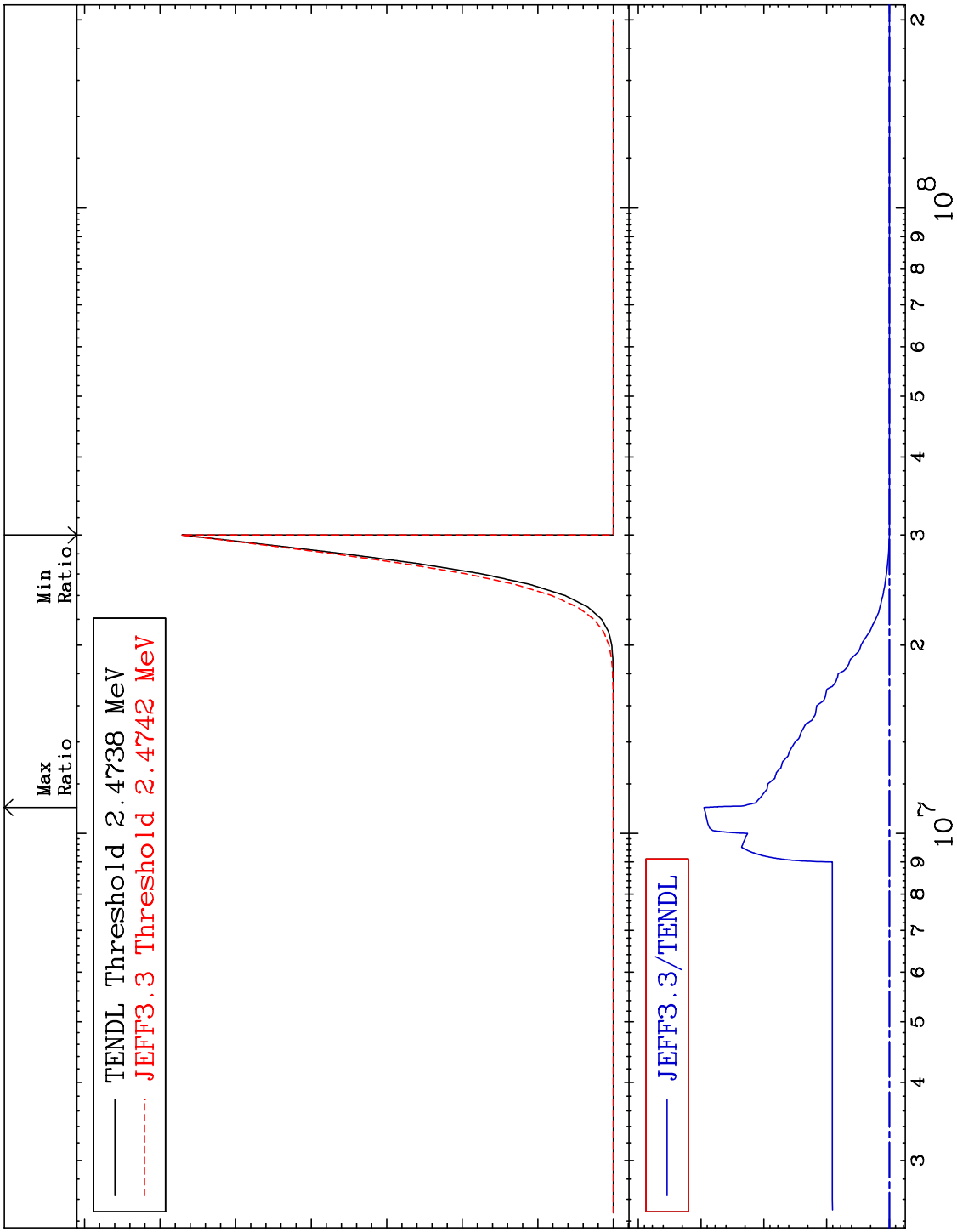
JEFF3.3/TENDL

Ratio

59

Incident Energy (eV)

54-Xe-126



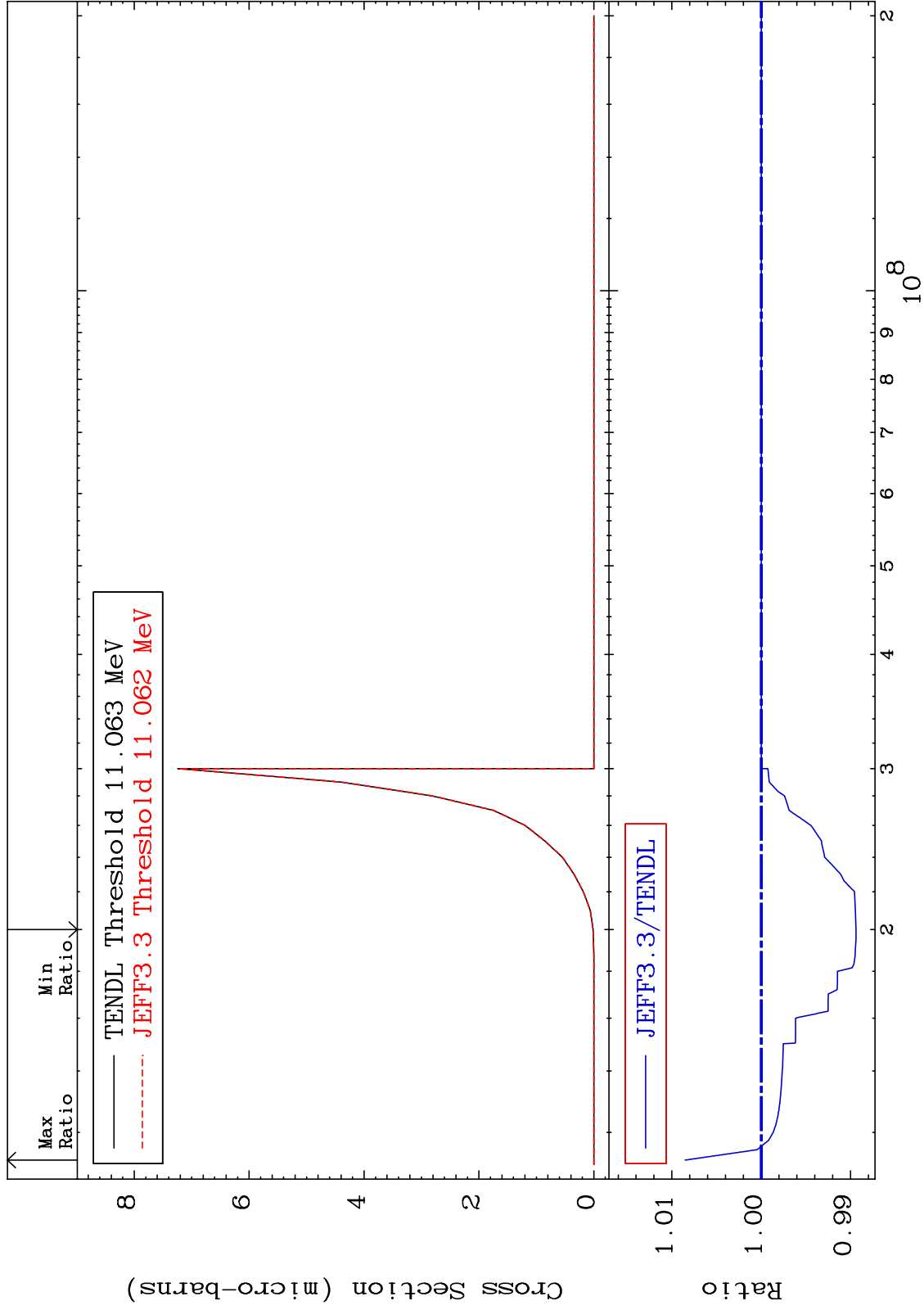
MAT 5431

(n,p) d

54-Xe-126

Cross Section

-1.061 To 0.853 %

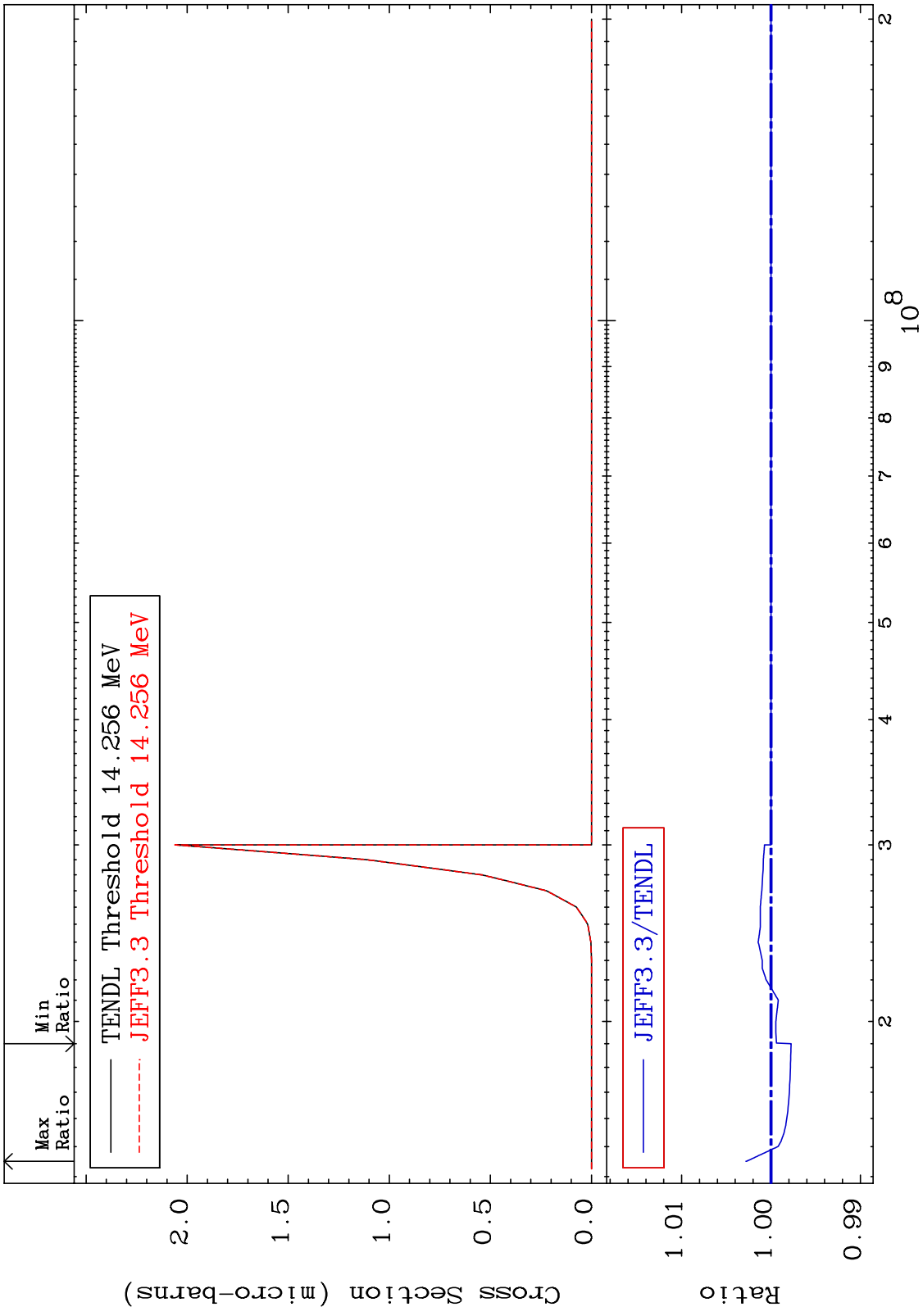


60

Incident Energy (eV)

54-Xe-126

MAT 5431 (n,p) t 54-Xe-126
 Cross Section -0.225 To 0.282 %



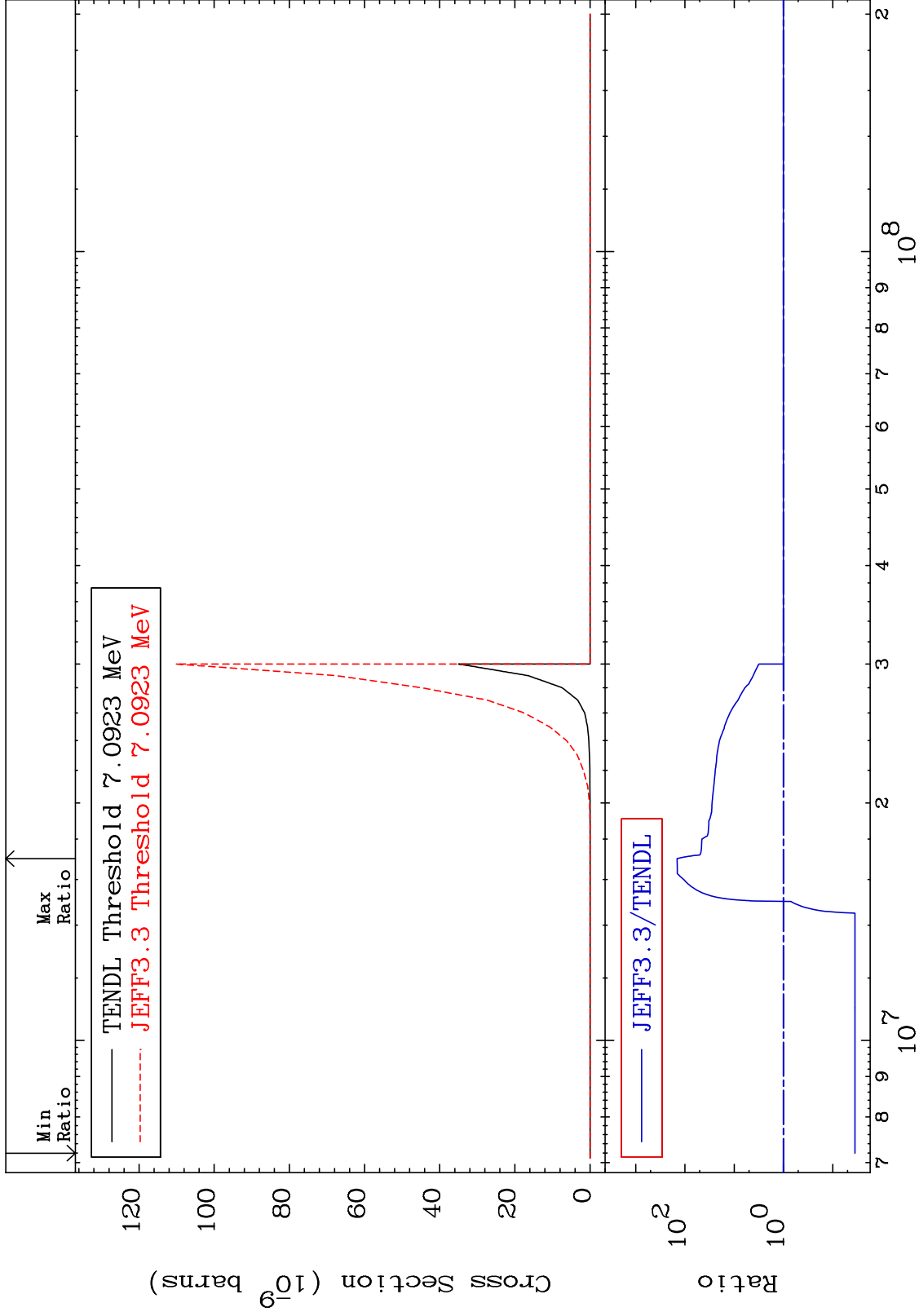
MAT 5431

(n,d) α

54-Xe-126

-96.48 To 9999. %

Cross Section



62

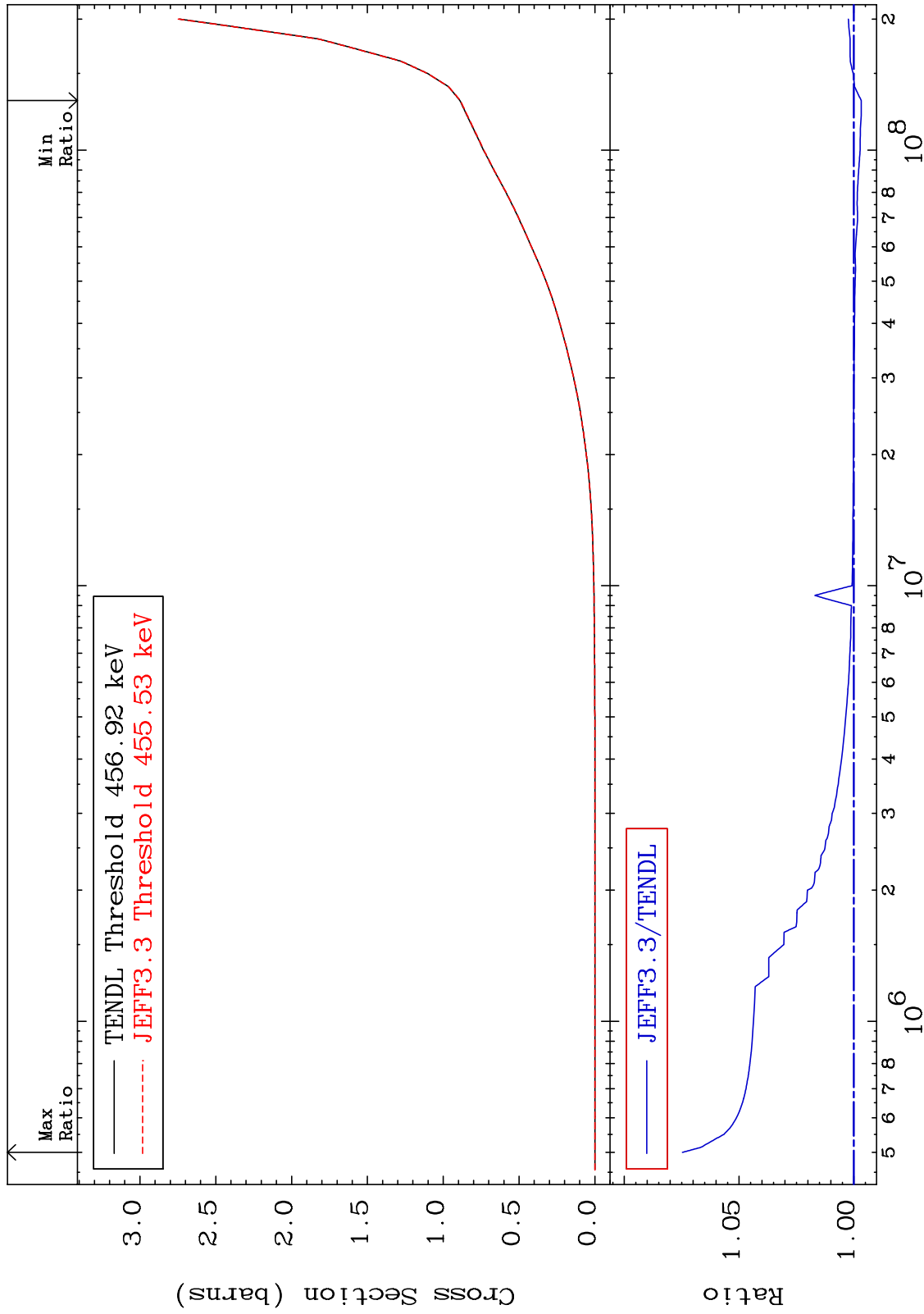
Incident Energy (eV)

54-Xe-126

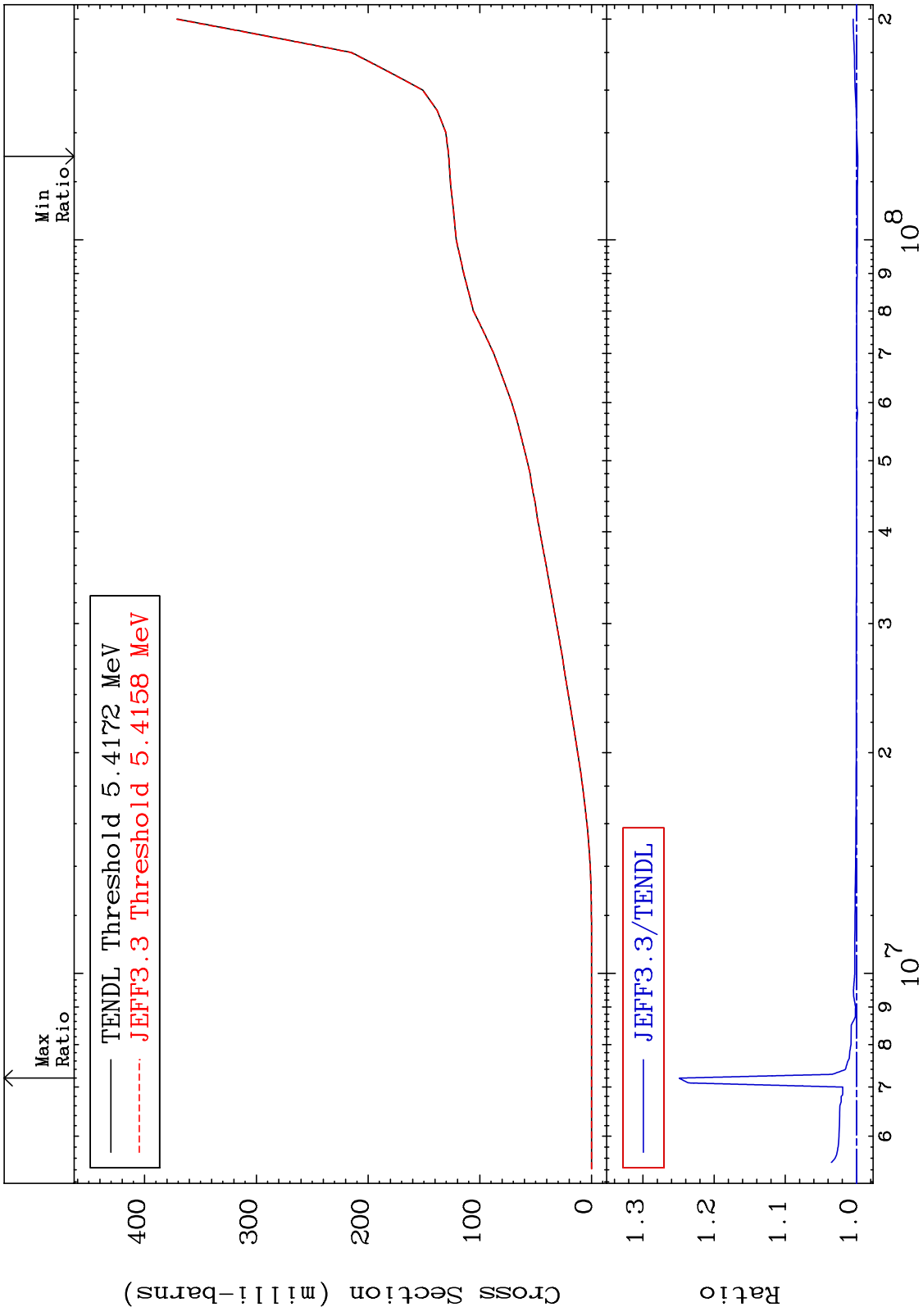
MAT 5431

Hydrogen Production
Cross Section

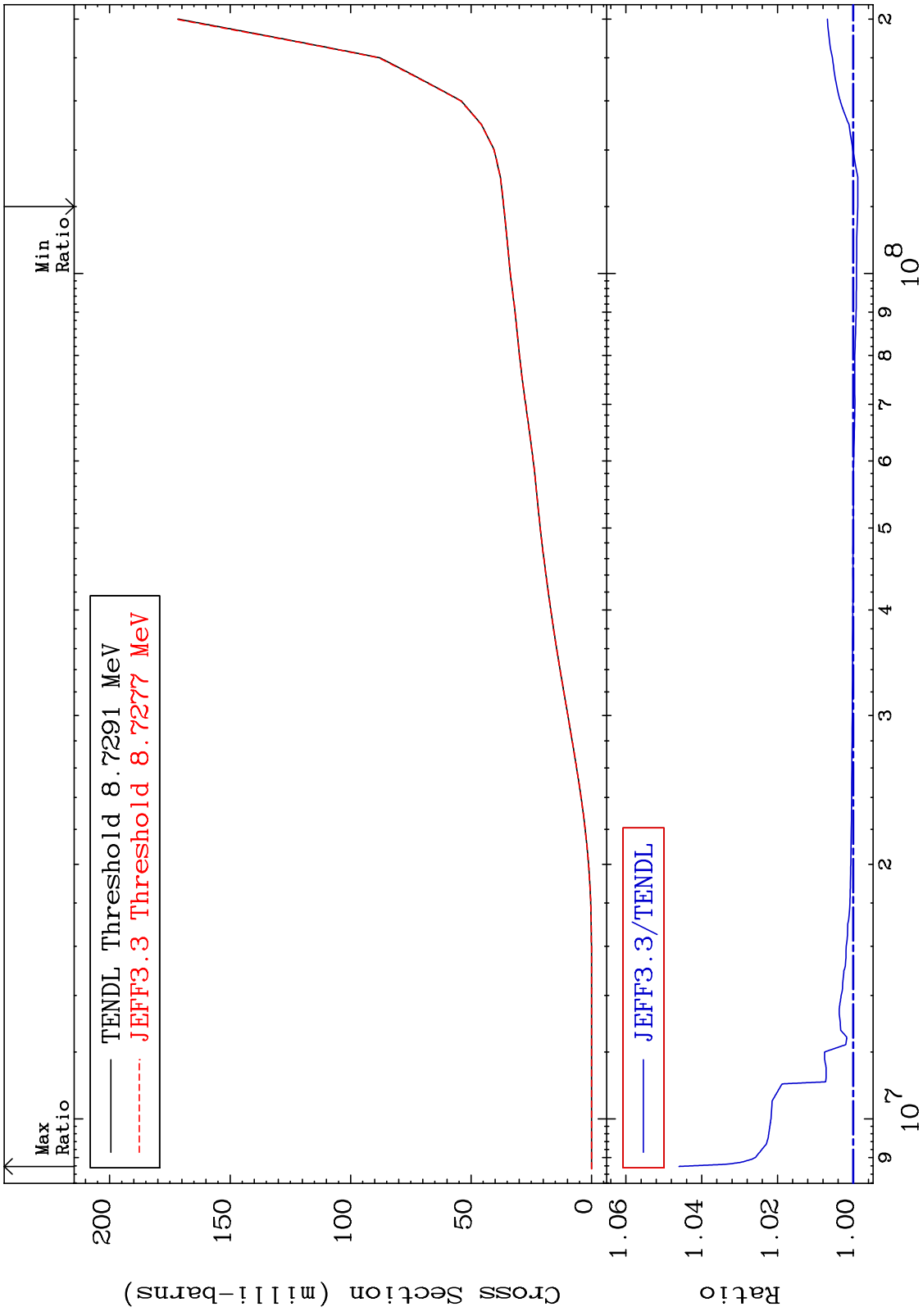
54-Xe-126
-0.322 To 7.468 %



MAT 5431 Deuterium Production Cross Section 54-Xe-126 -0.195 To 24.94 %



MAT 5431 Tritium Production Cross Section 54-Xe-126 -0.121 To 4.598 %

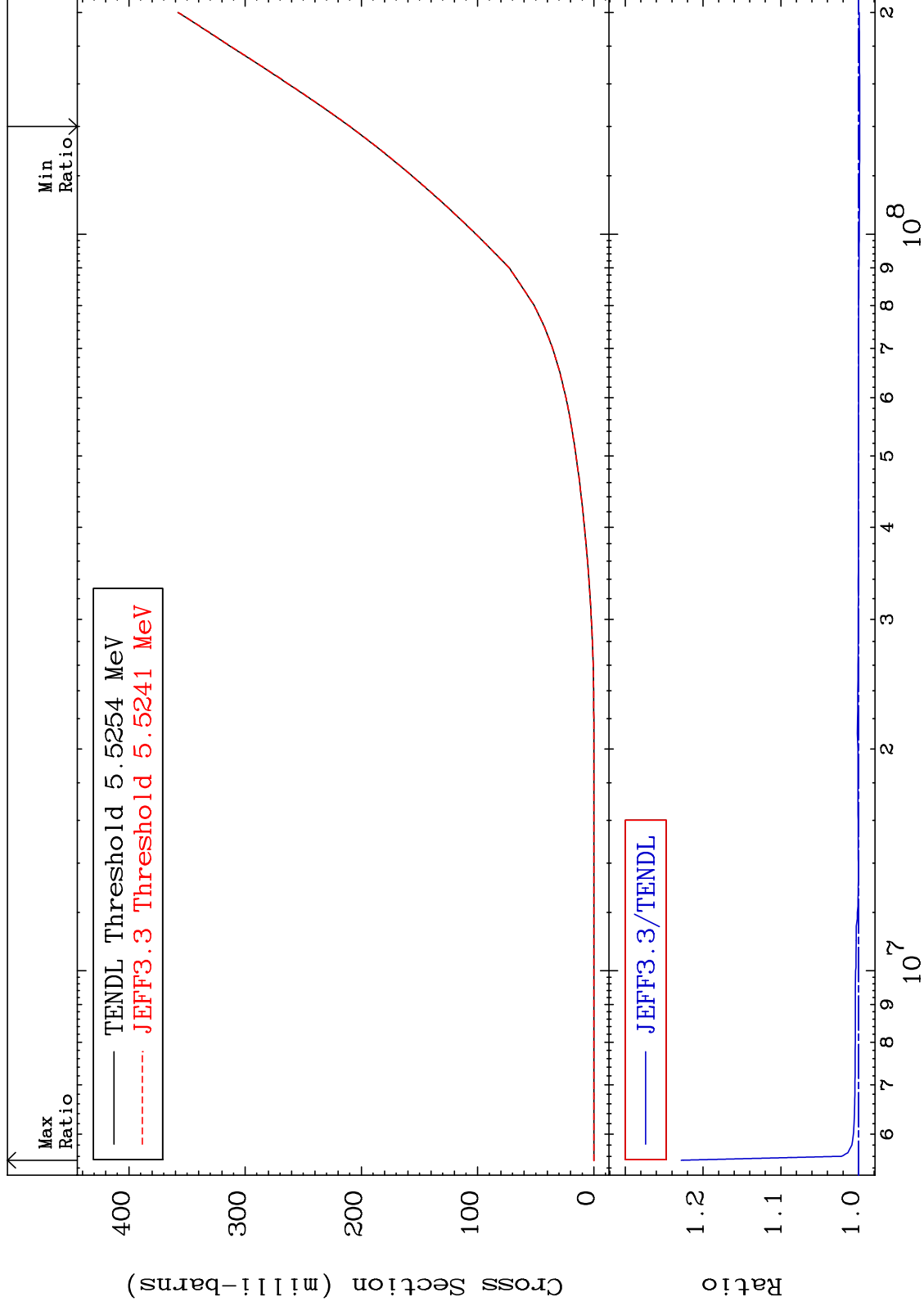


65 54-Xe-126

MAT 5431

He-3 Production
Cross Section

54-Xe-126
-0.148 To 22.80 %



66

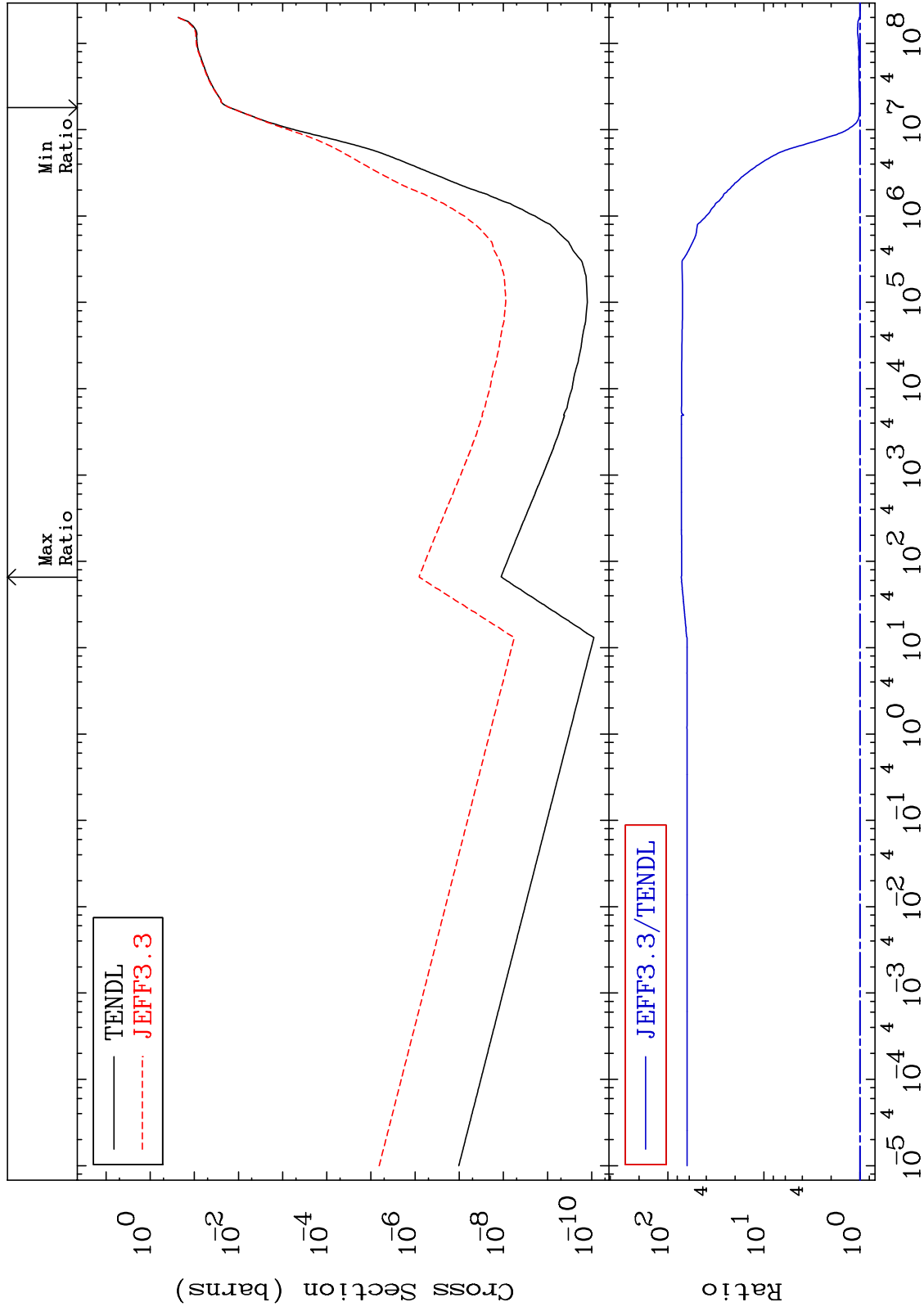
Incident Energy (eV)

54-Xe-126

MAT 5431

He-4 Production
Cross Section

54-Xe-126
0.638 To 7173. %

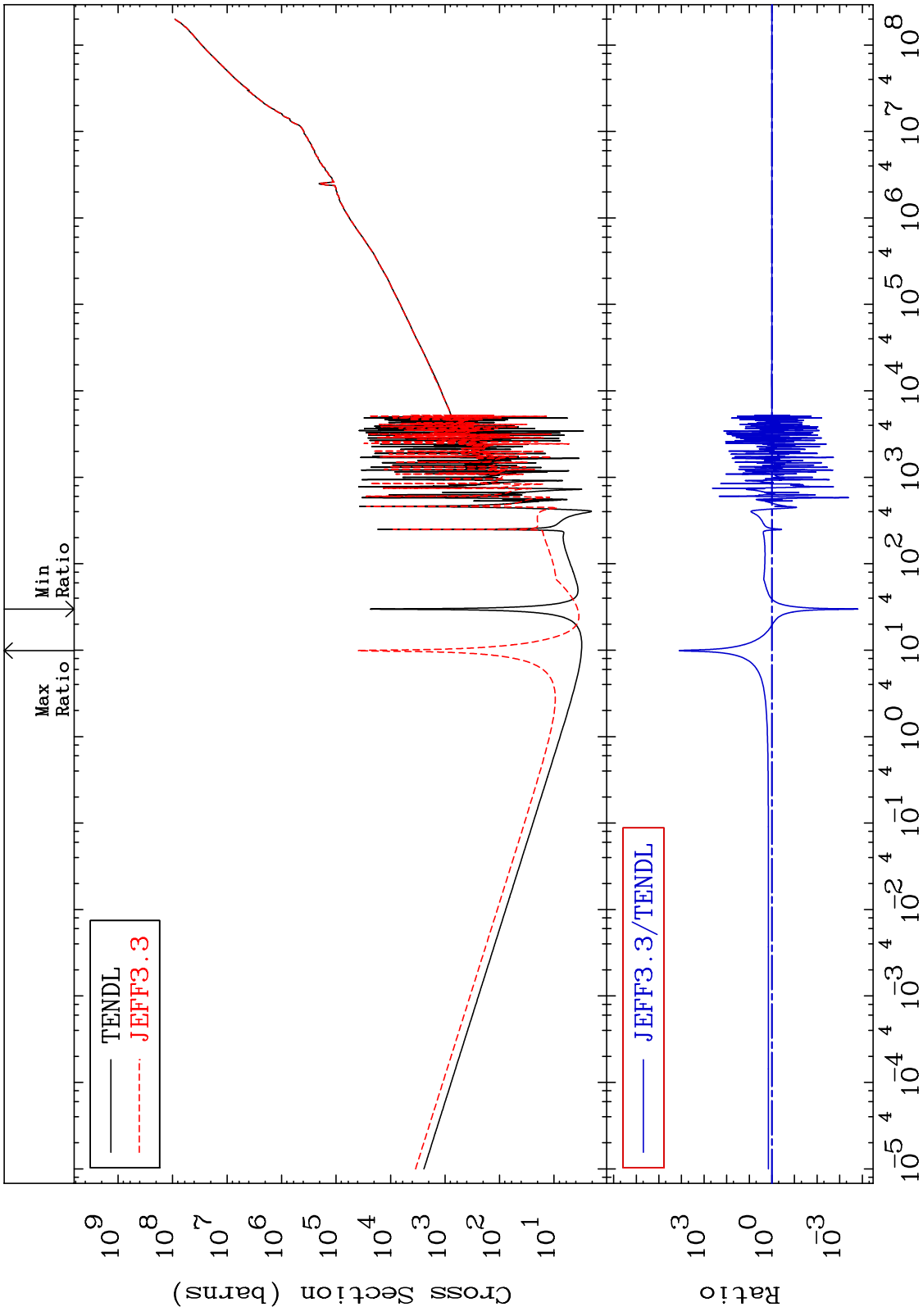


67

Incident Energy (eV)

54-Xe-126

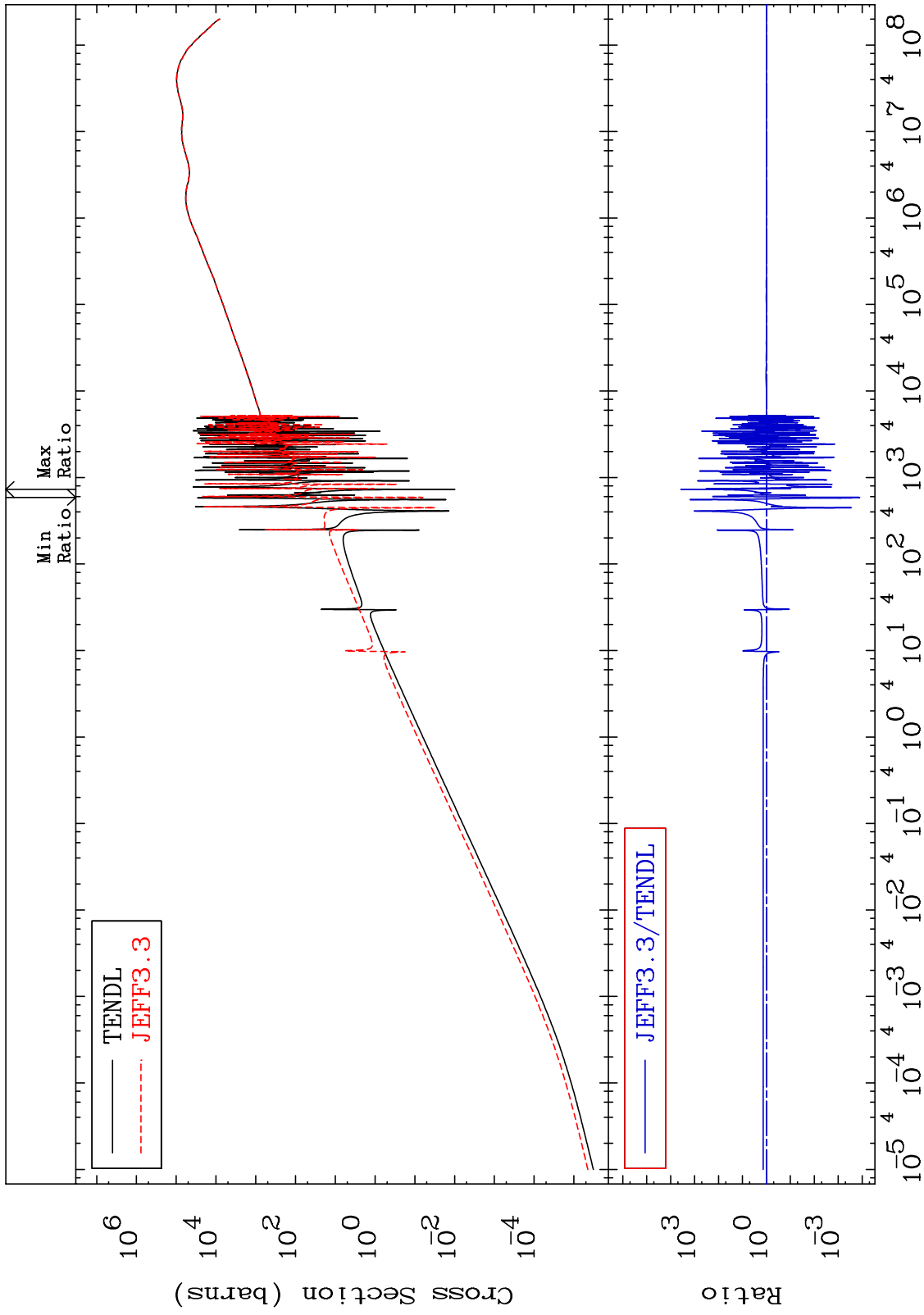
MAT 5431 Kerma total (eV-barns) 54-Xe-126
 Cross Section -99.98 To 9999. %



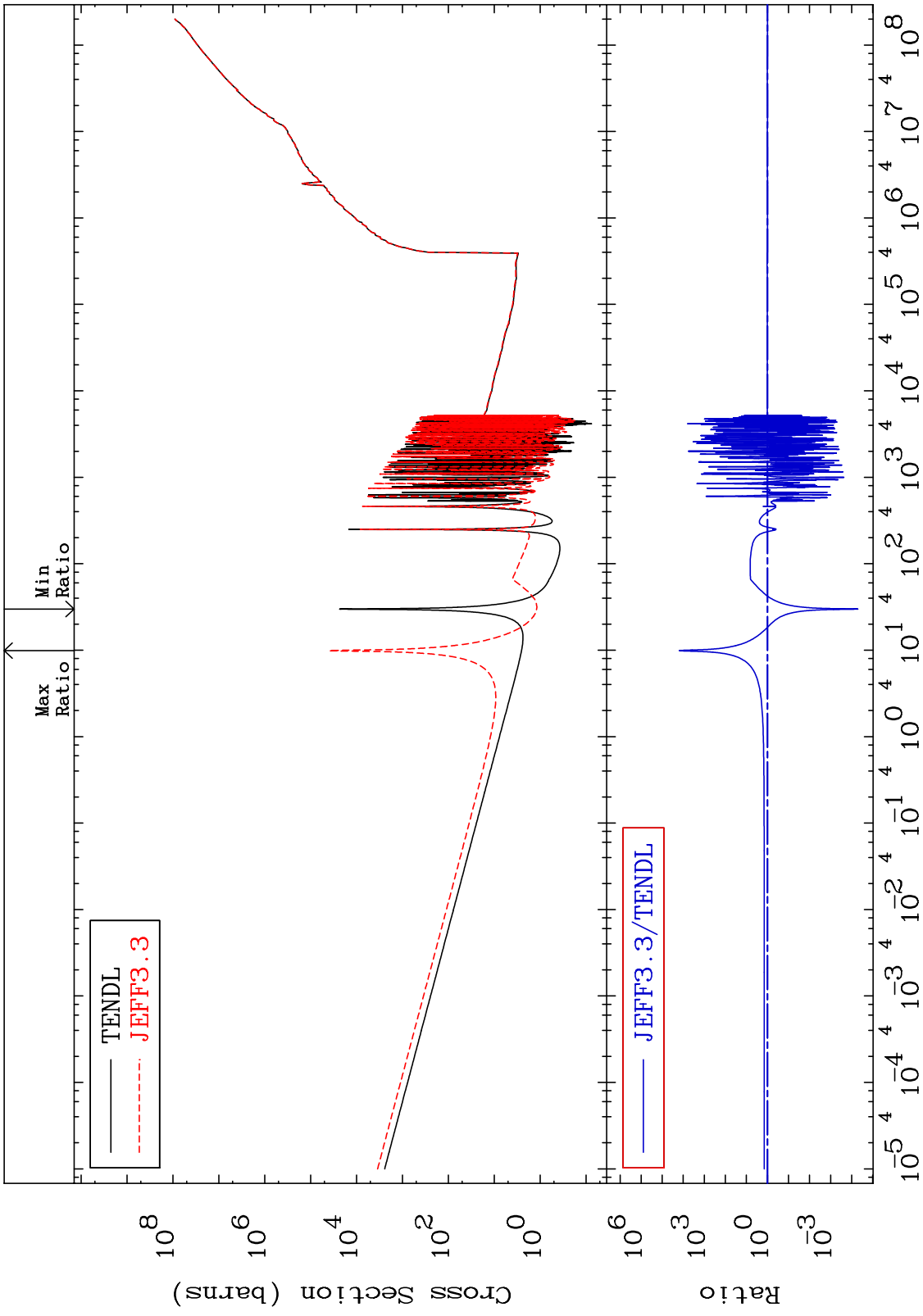
MAT 5431

Kerma elastic
Cross Section

54-Xe-126
-99.99 To 9999. %



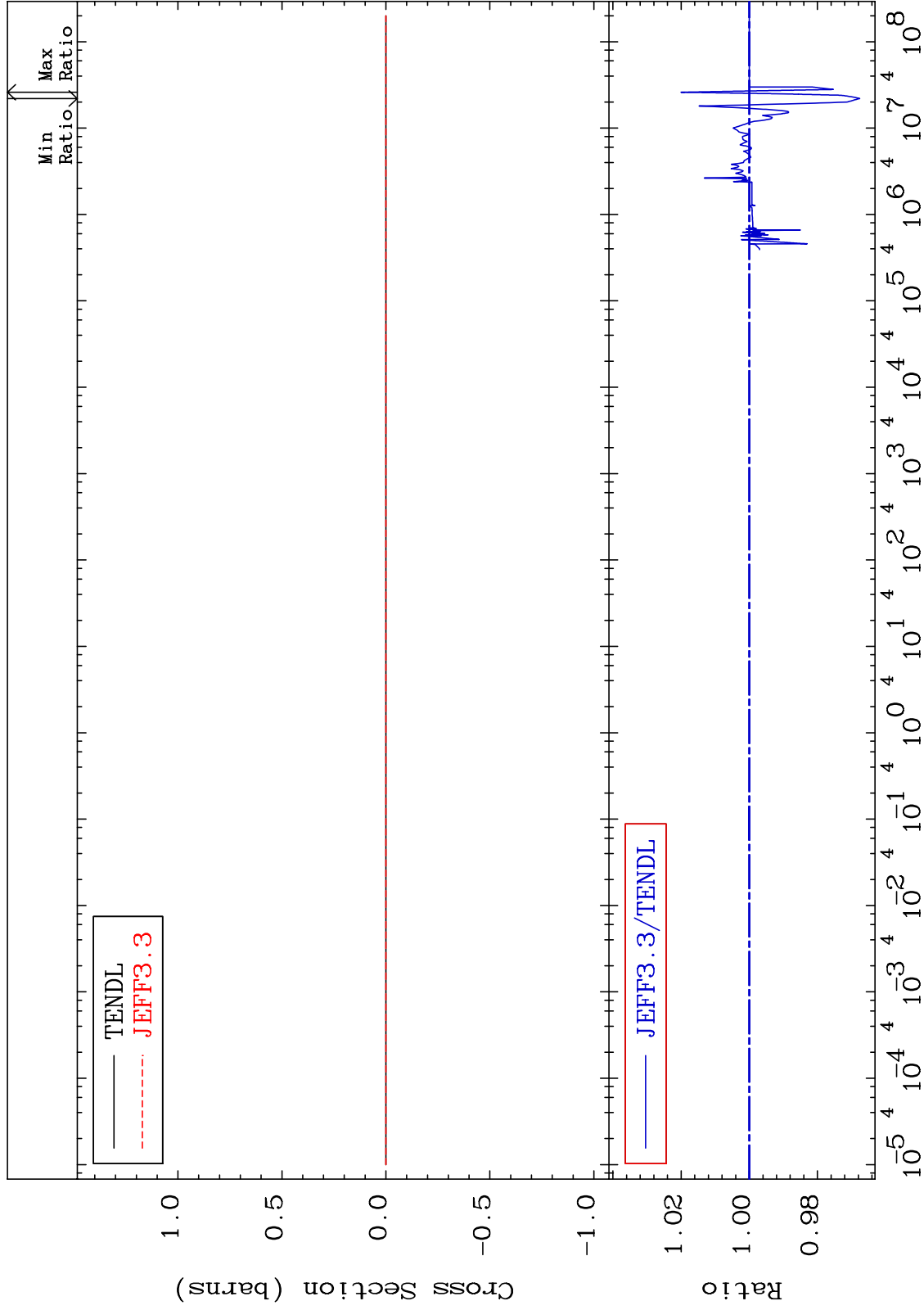
MAT 5431 Kerma non-elastic (all but mt2) 54-Xe-126
 -99.99 To 9999. %
 Cross Section



MAT 5431

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

54-Xe-126
-3.242 To 1.996 %



72

Incident Energy (eV)

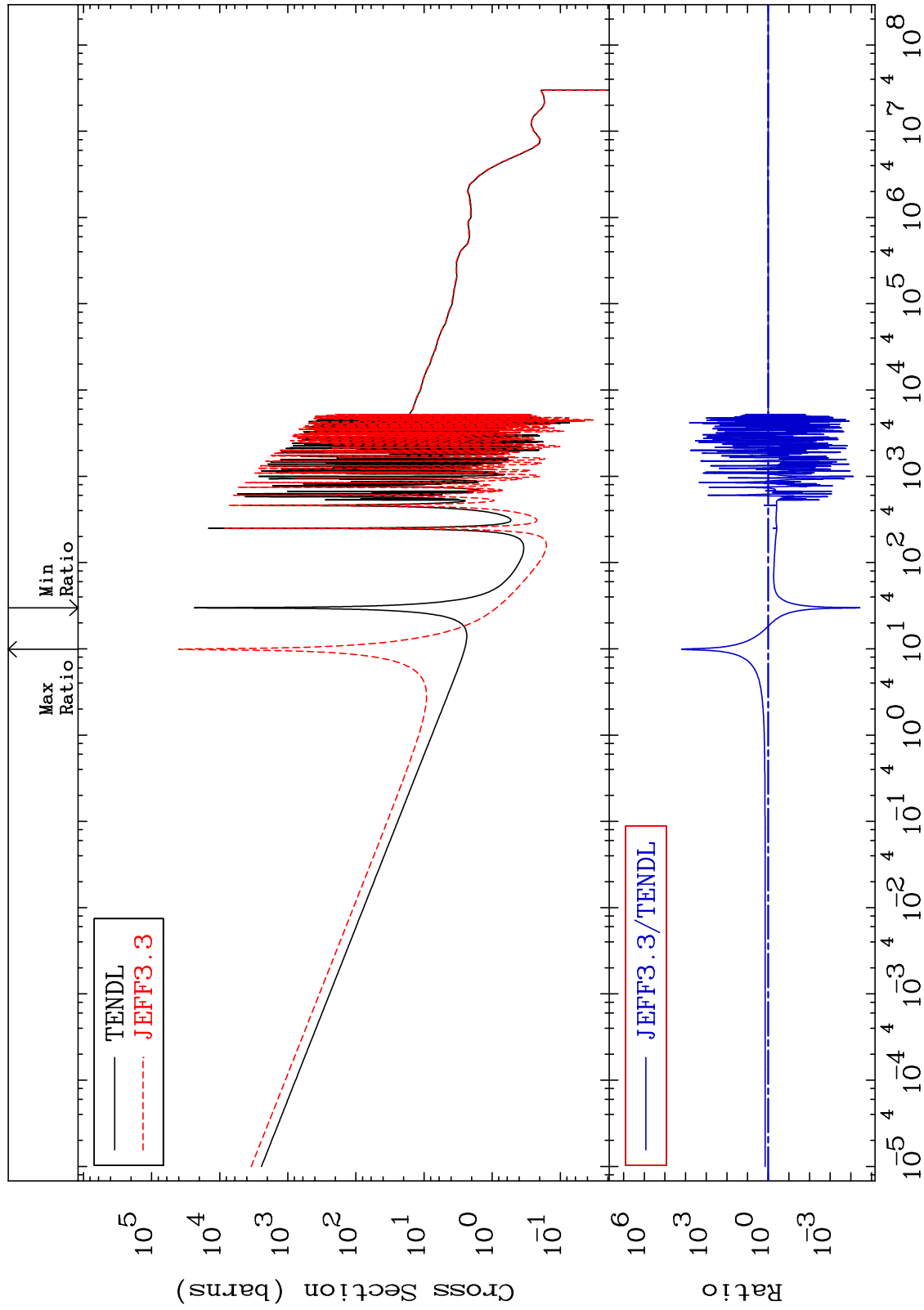
54-Xe-126

MAT 5431

Kerma capture (mt102)

54-Xe-126

-100.0 To 9999. %



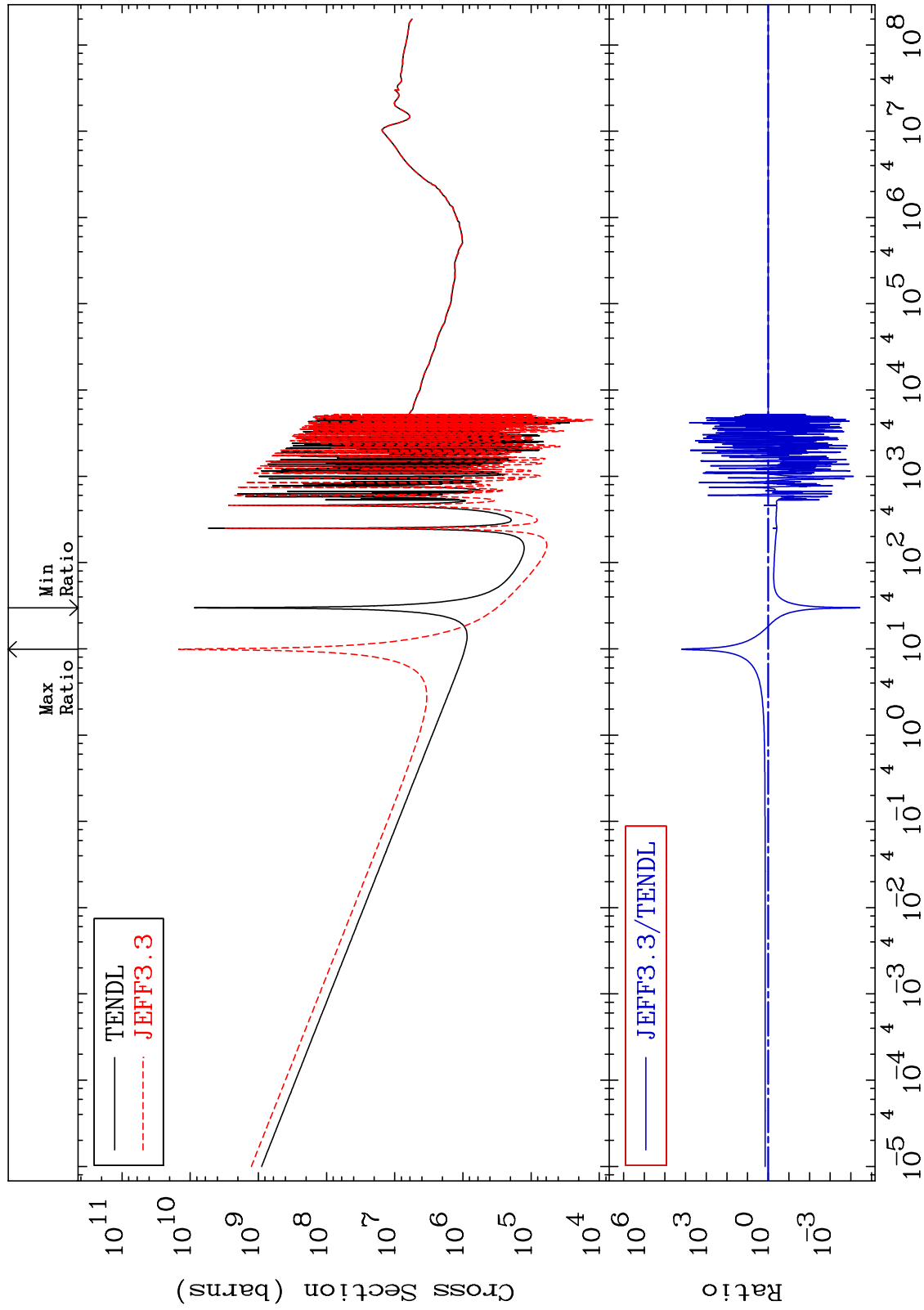
73

54-Xe-126

MAT 5431

Total photon (eV-barns)
Cross Section

54-Xe-126
-100.0 To 9999. %

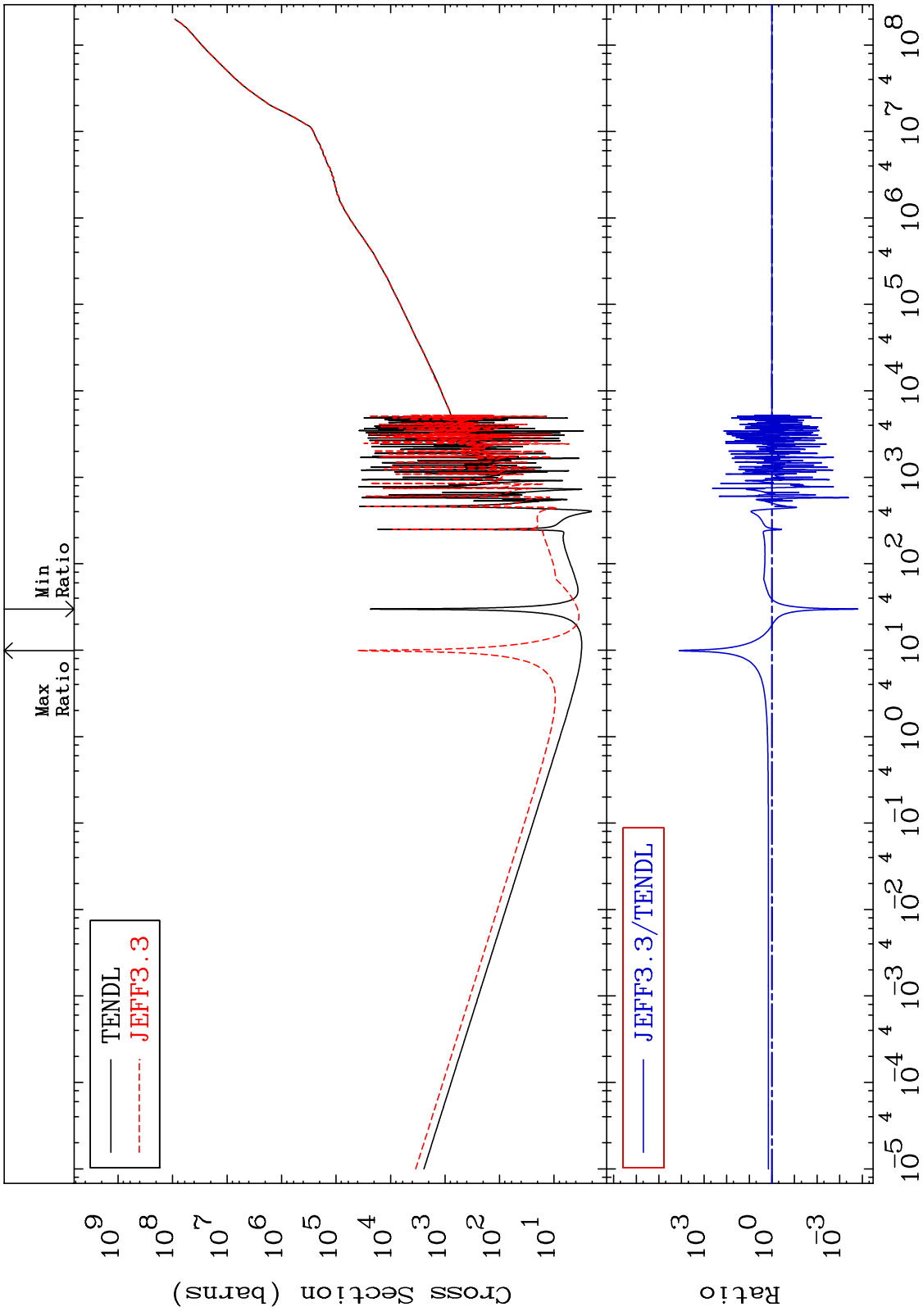


74

Incident Energy (eV)

54-Xe-126

MAT 5431 Total kinematic kerma (high limit) 54-Xe-126
 Cross Section -99.98 To 9999. %



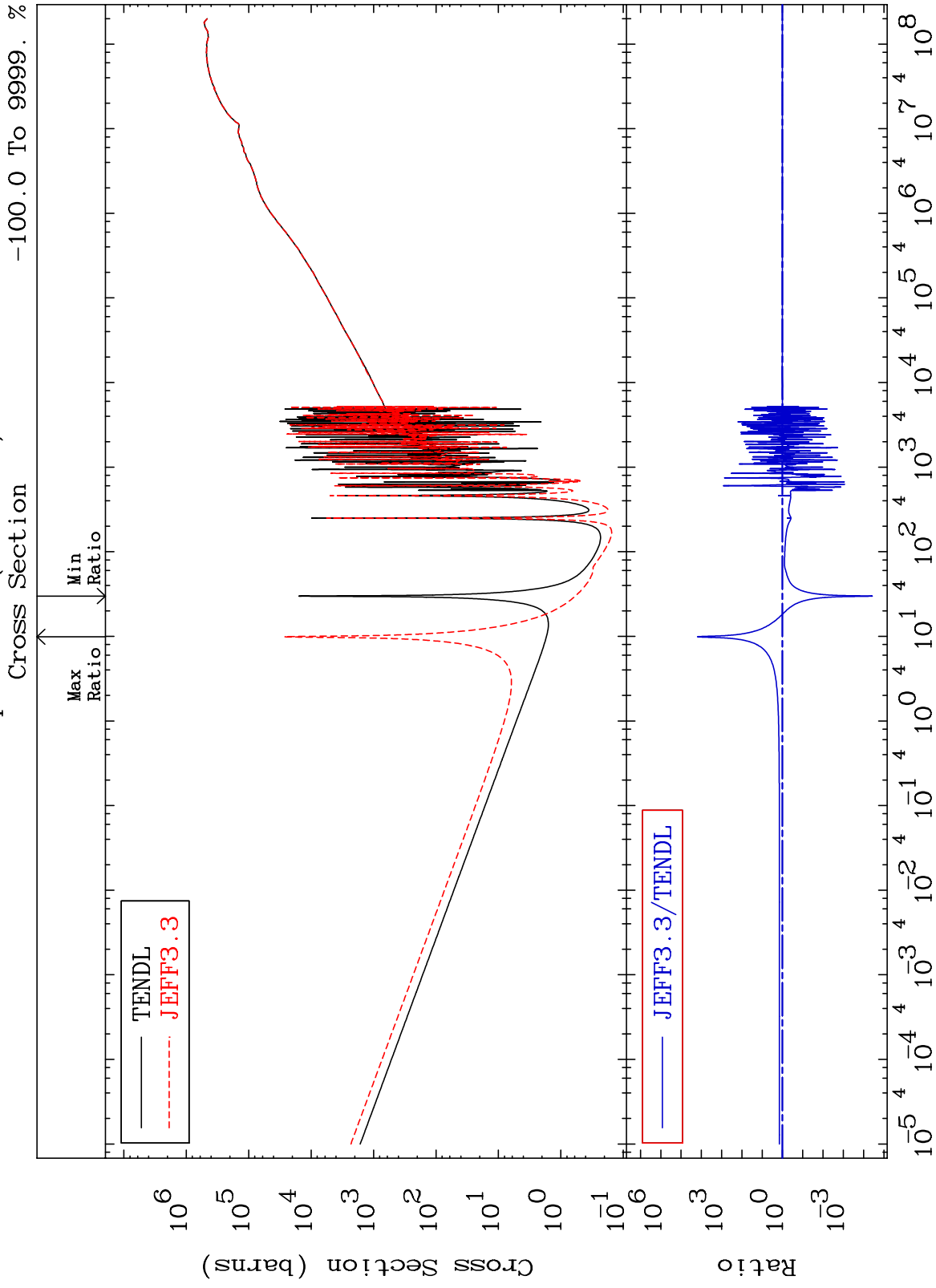
75 Incident Energy (eV) 54-Xe-126

MAT 5431

Dpa total (eV-barns)

54-Xe-126

-100.0 To 9999. %



76

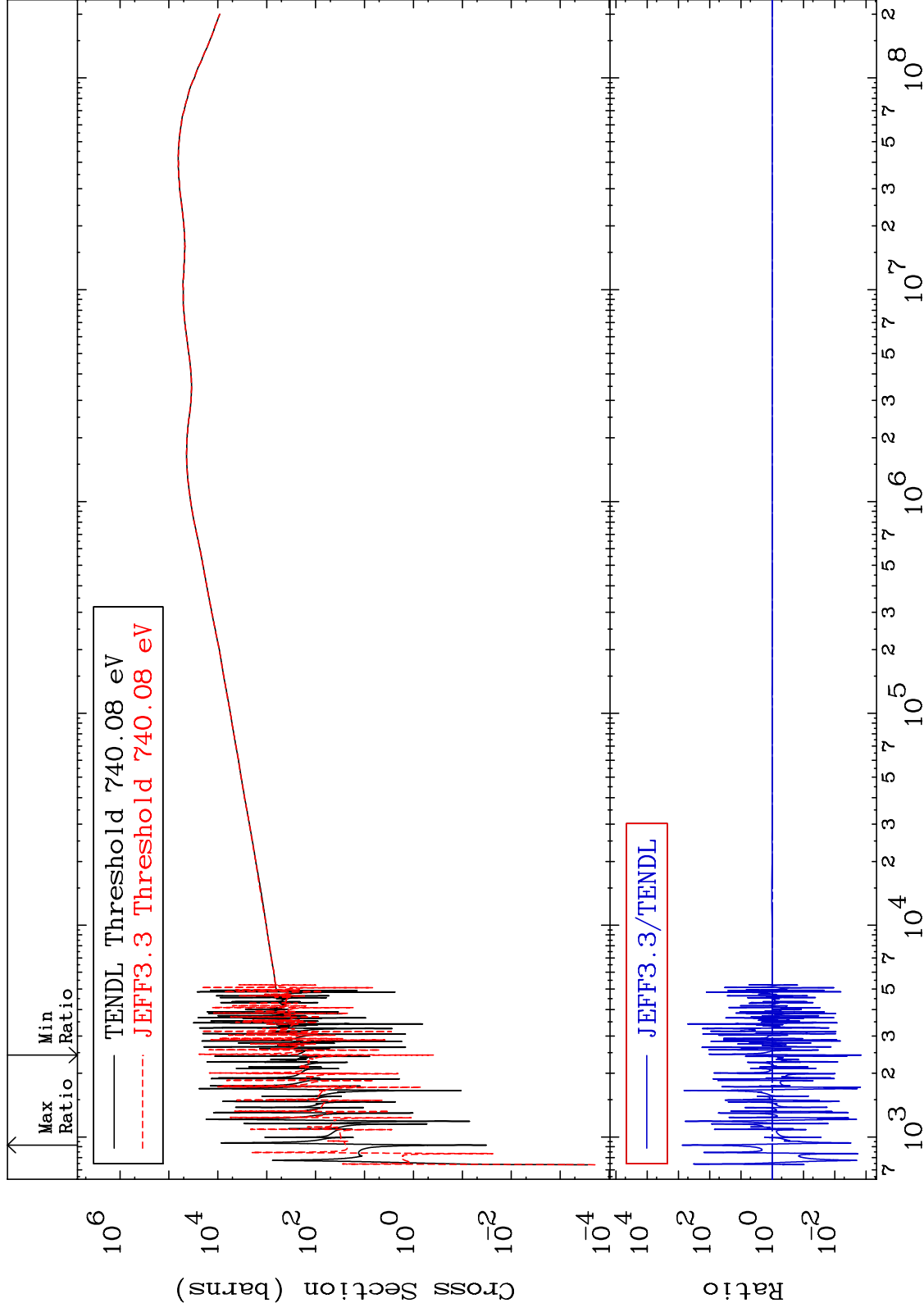
Incident Energy (eV)

54-Xe-126

MAT 5431

Dpa elastic (mt2)
Cross Section

54-Xe-126
-99.86 To 9999. %



77

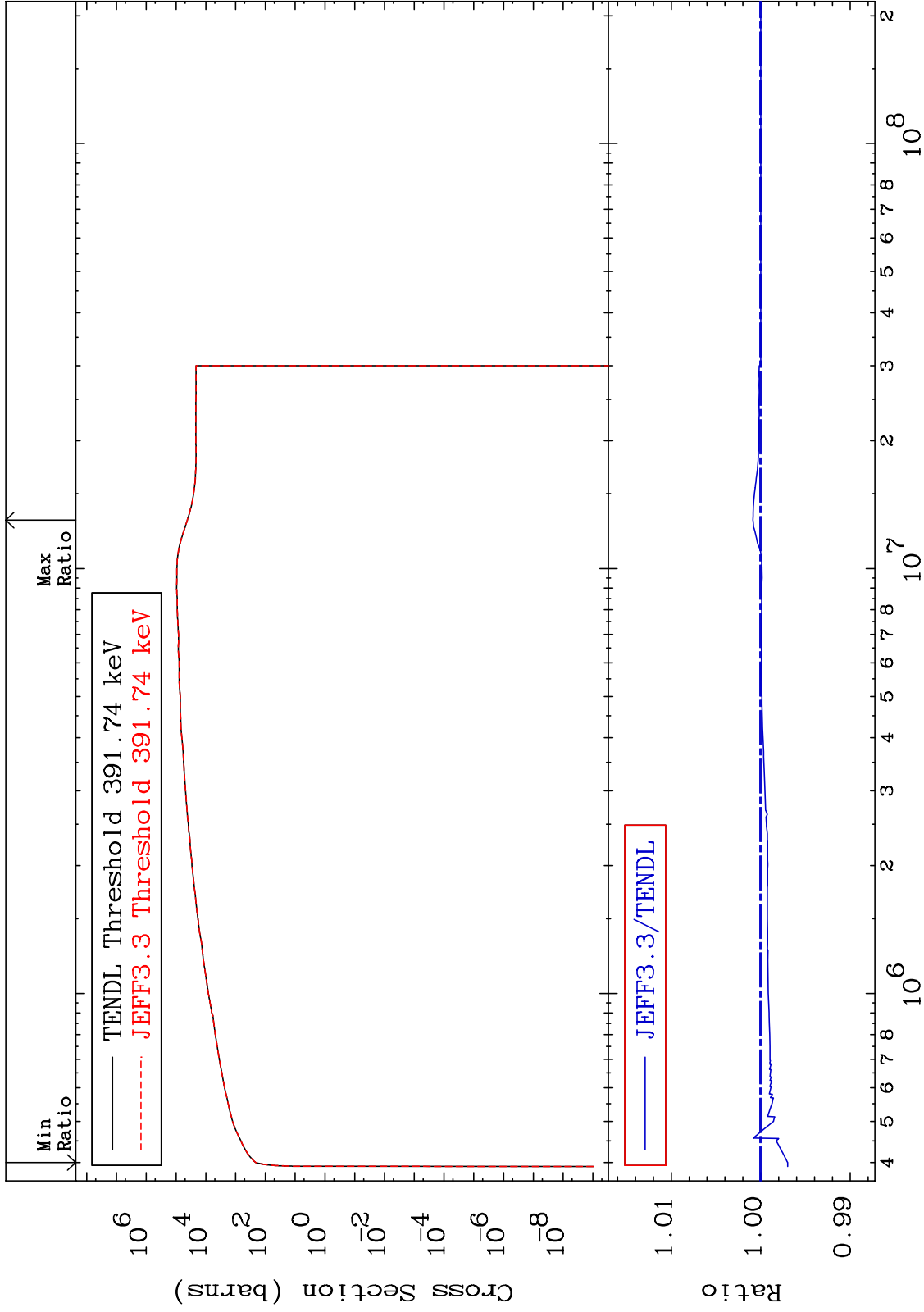
Incident Energy (eV)

54-Xe-126

MAT 5431

Dpa inelastic (mt51-91)
Cross Section

54-Xe-126
-0.299 To 0.088 %



78

Incident Energy (eV)

54-Xe-126

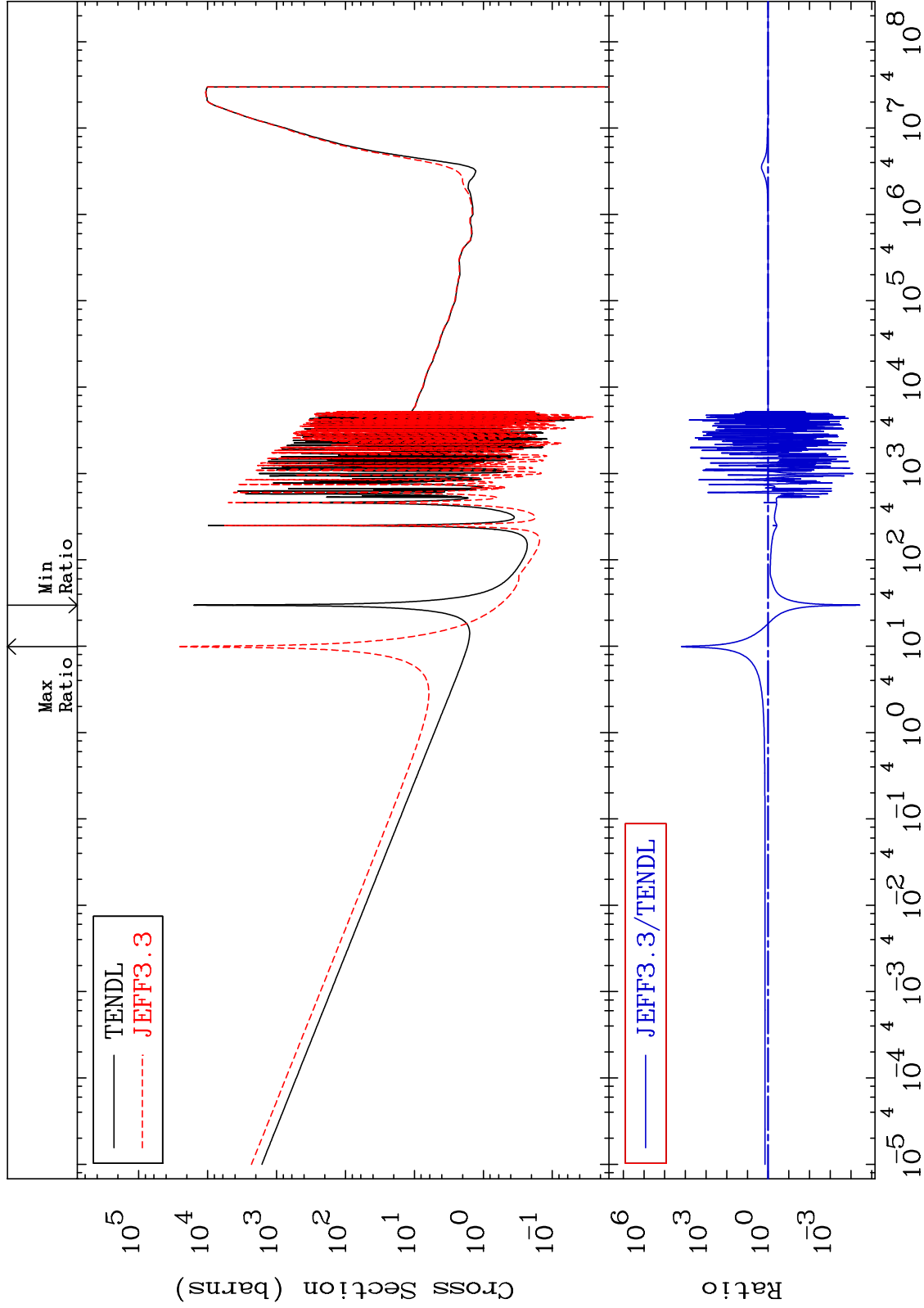
MAT 5431

Dpa disappearance (mt102 -120)

54-Xe-126

-100.0 To 9999. %

Cross Section

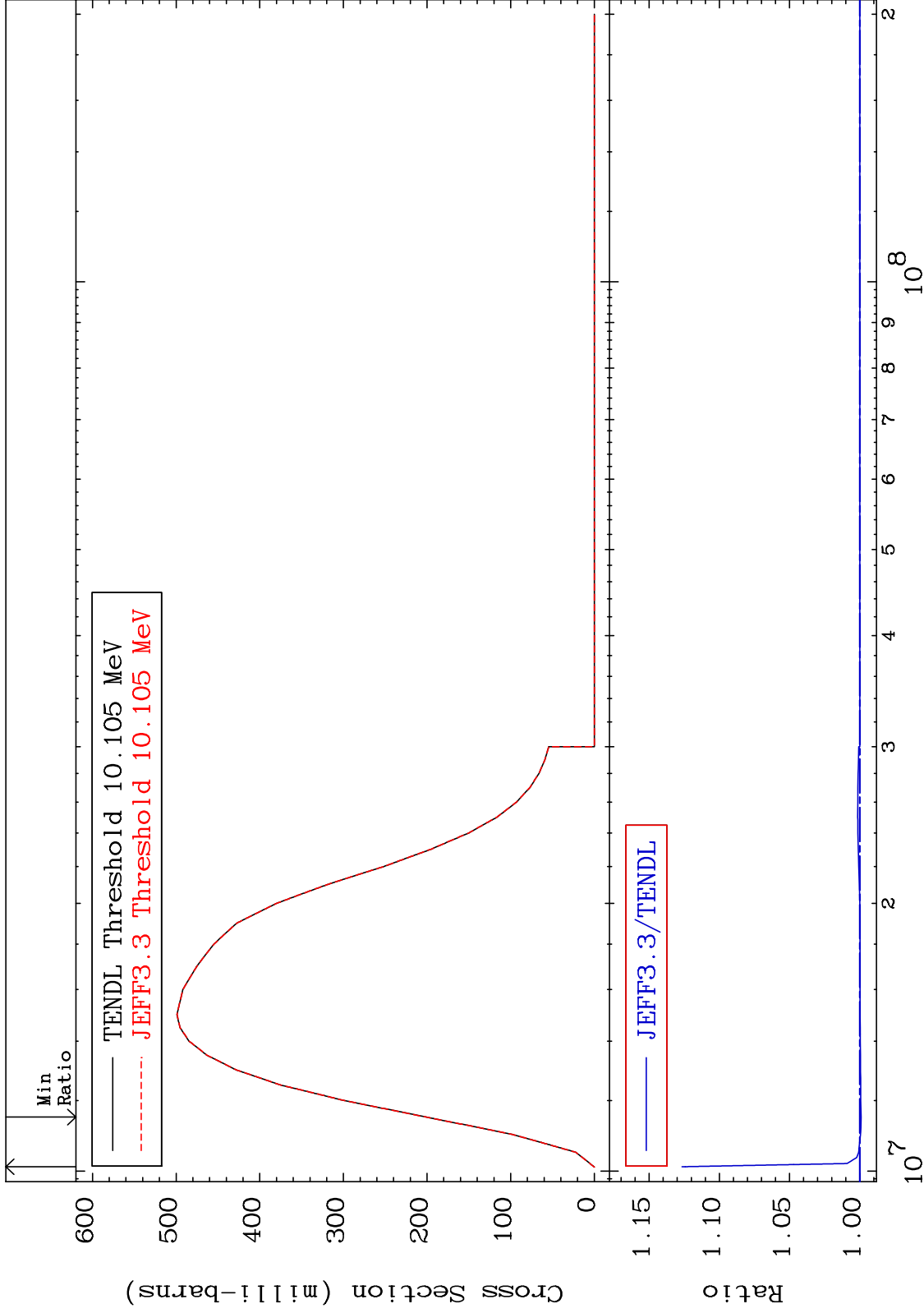


MAT 5431

(n,2n):54-Xe-125g

54-Xe-126

Radionuclide Production Cross Section -0.101 To 12.66 %



80

Incident Energy (eV)

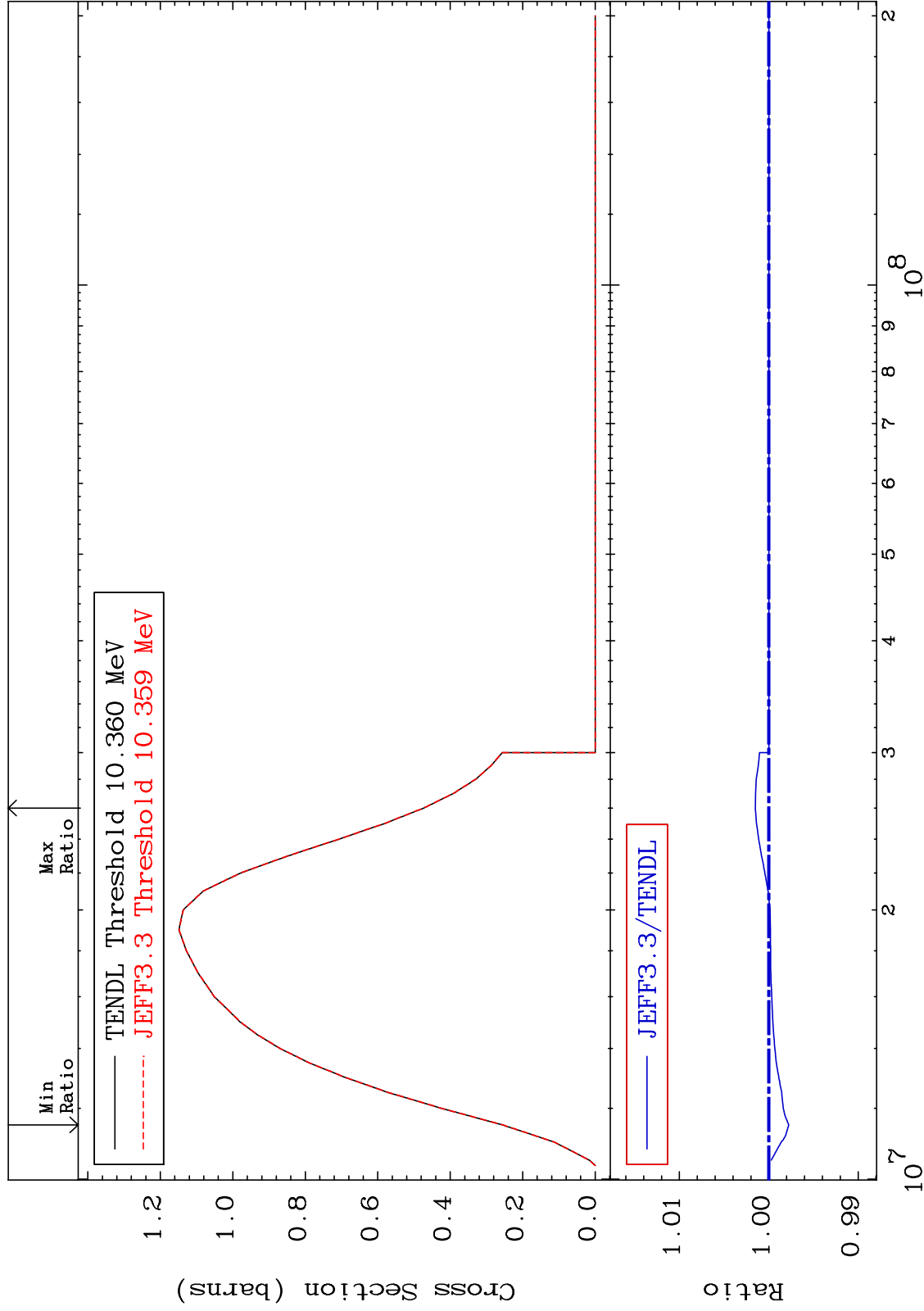
54-Xe-126

MAT 5431

(n,2n):54-Xe-125m2

54-Xe-126

Radionuclide Production Cross Section -0.223 To 0.151 %



81

Incident Energy (eV)

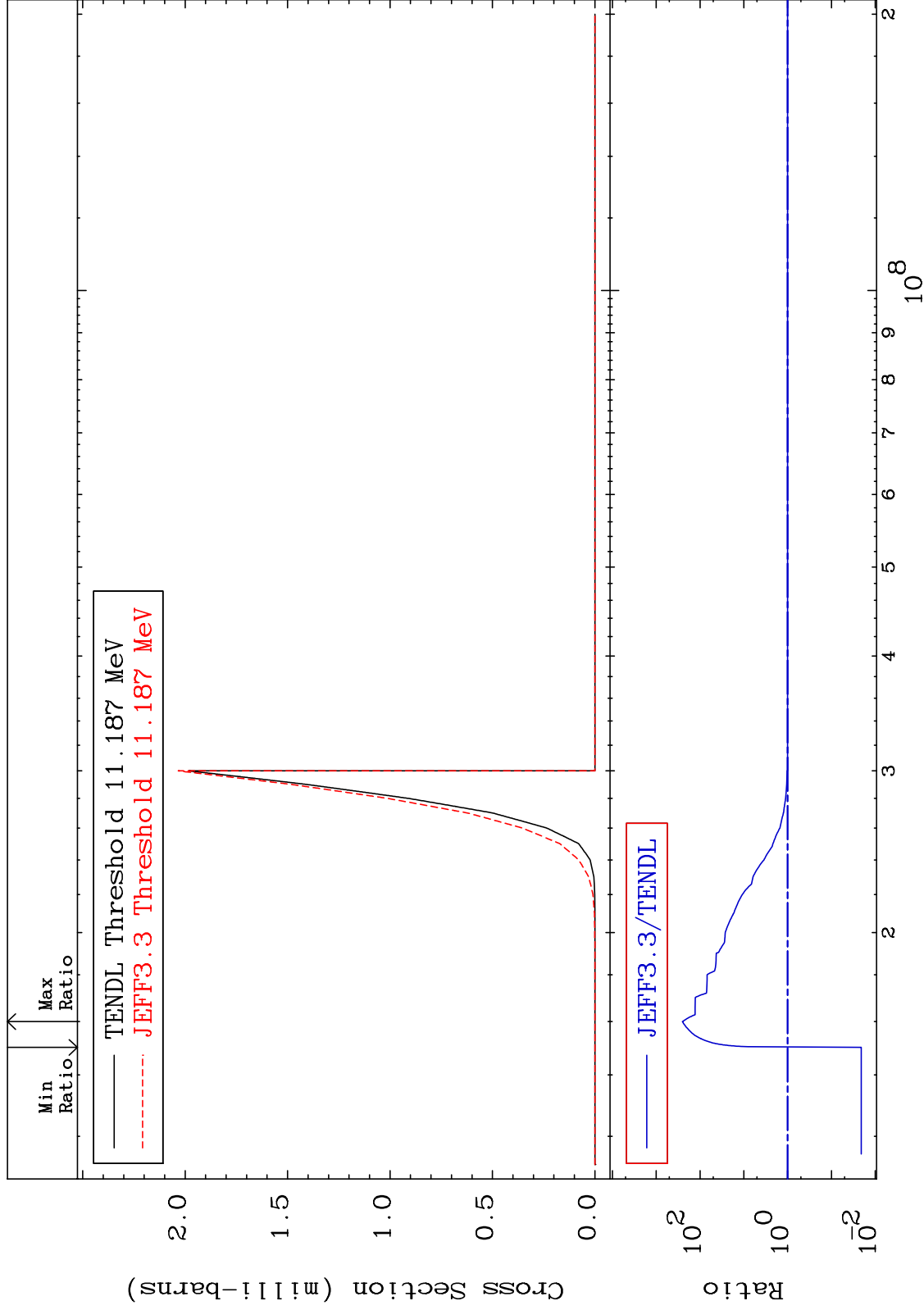
54-Xe-126

MAT 5431

(n,2n) α :52-Te-121g

54-Xe-126

Radionuclide Production Cross Section -97.91 To 9999. %

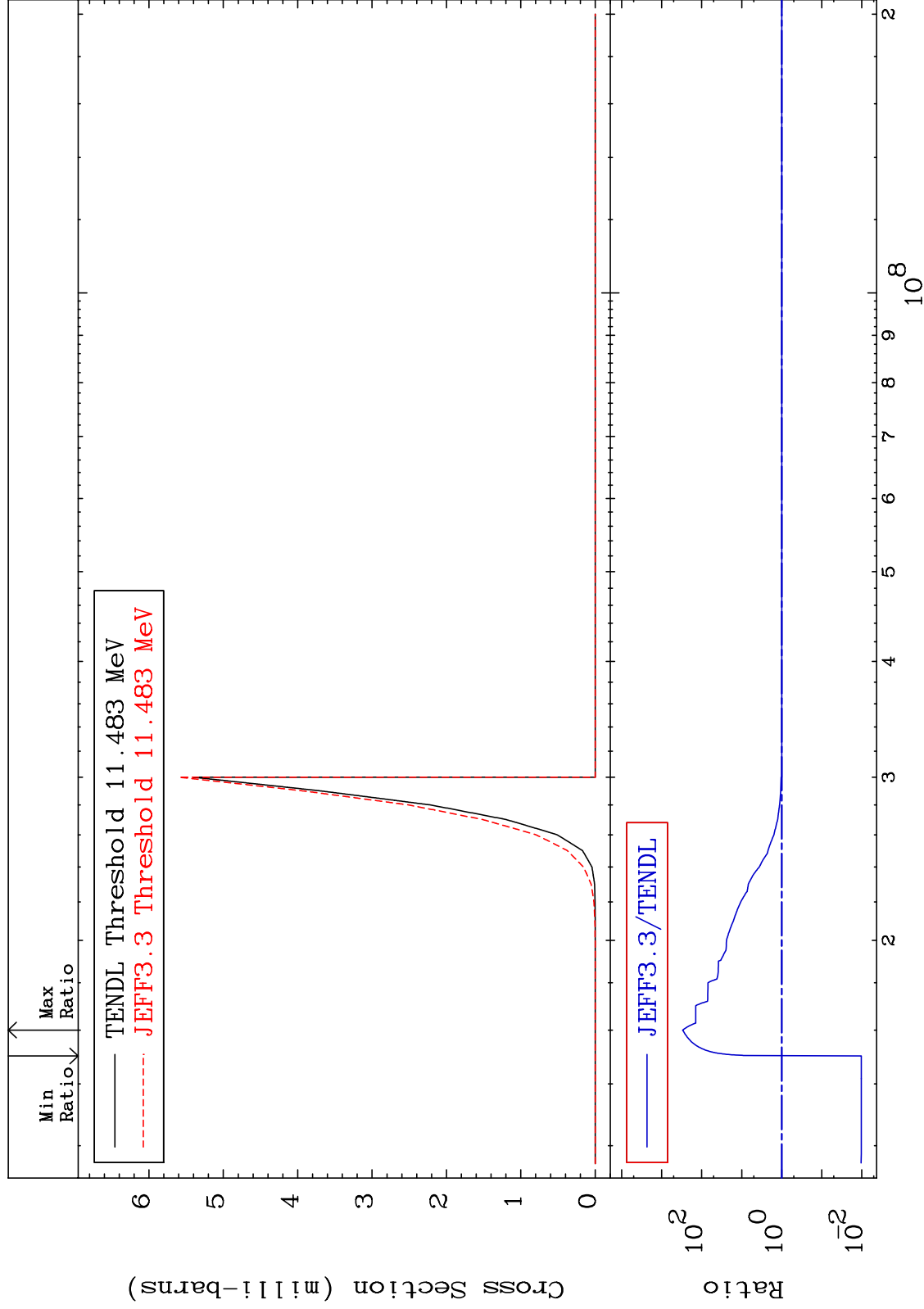


MAT 5431

(n,2n) α :52-Te-121m2

54-Xe-126

Radionuclide Production Cross Section -98.98 To 9999. %

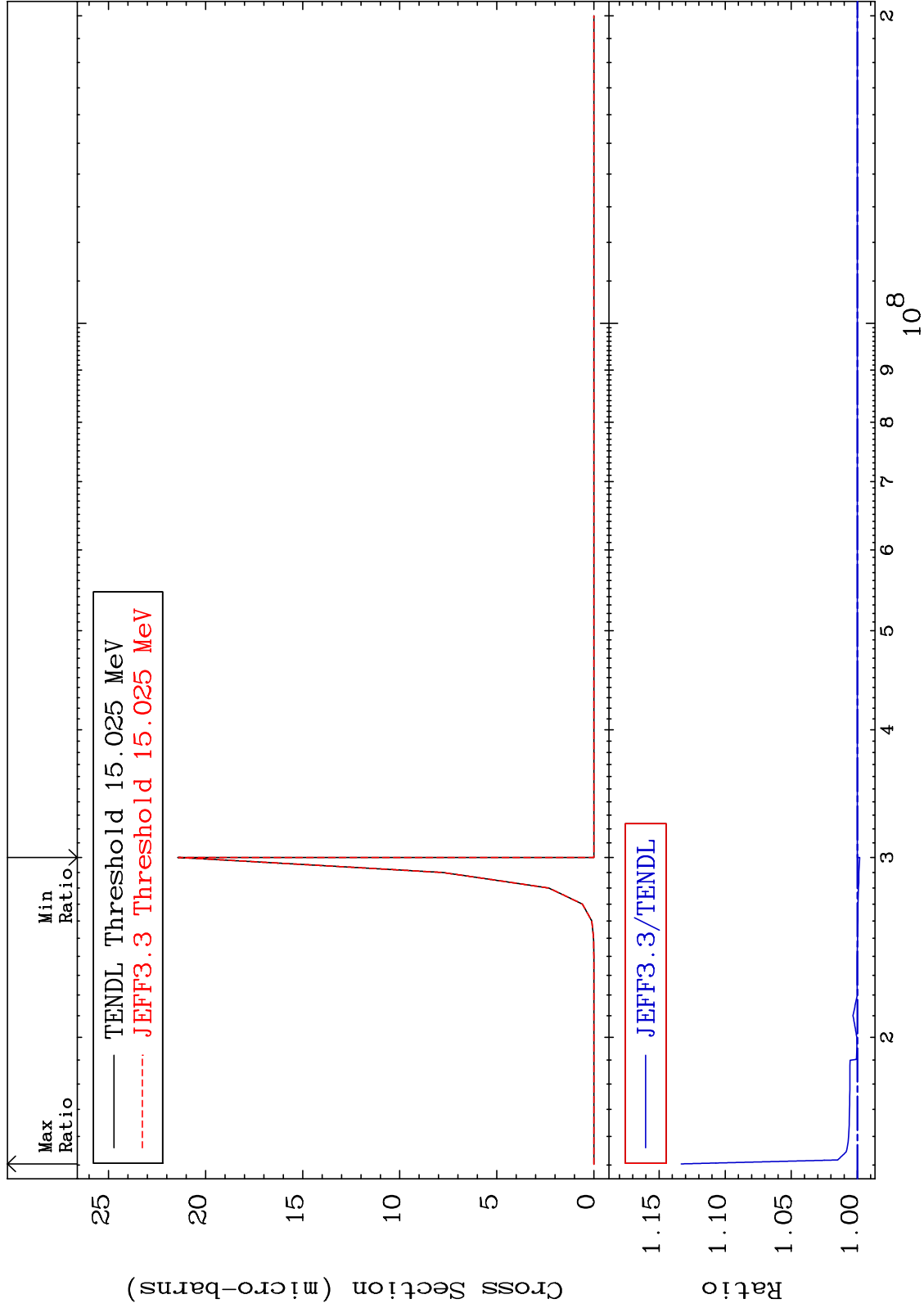


MAT 5431

(n,n') He-3:52-Te-123g

54-Xe-126

Radionuclide Production Cross Section -0.180 To 13.32 %

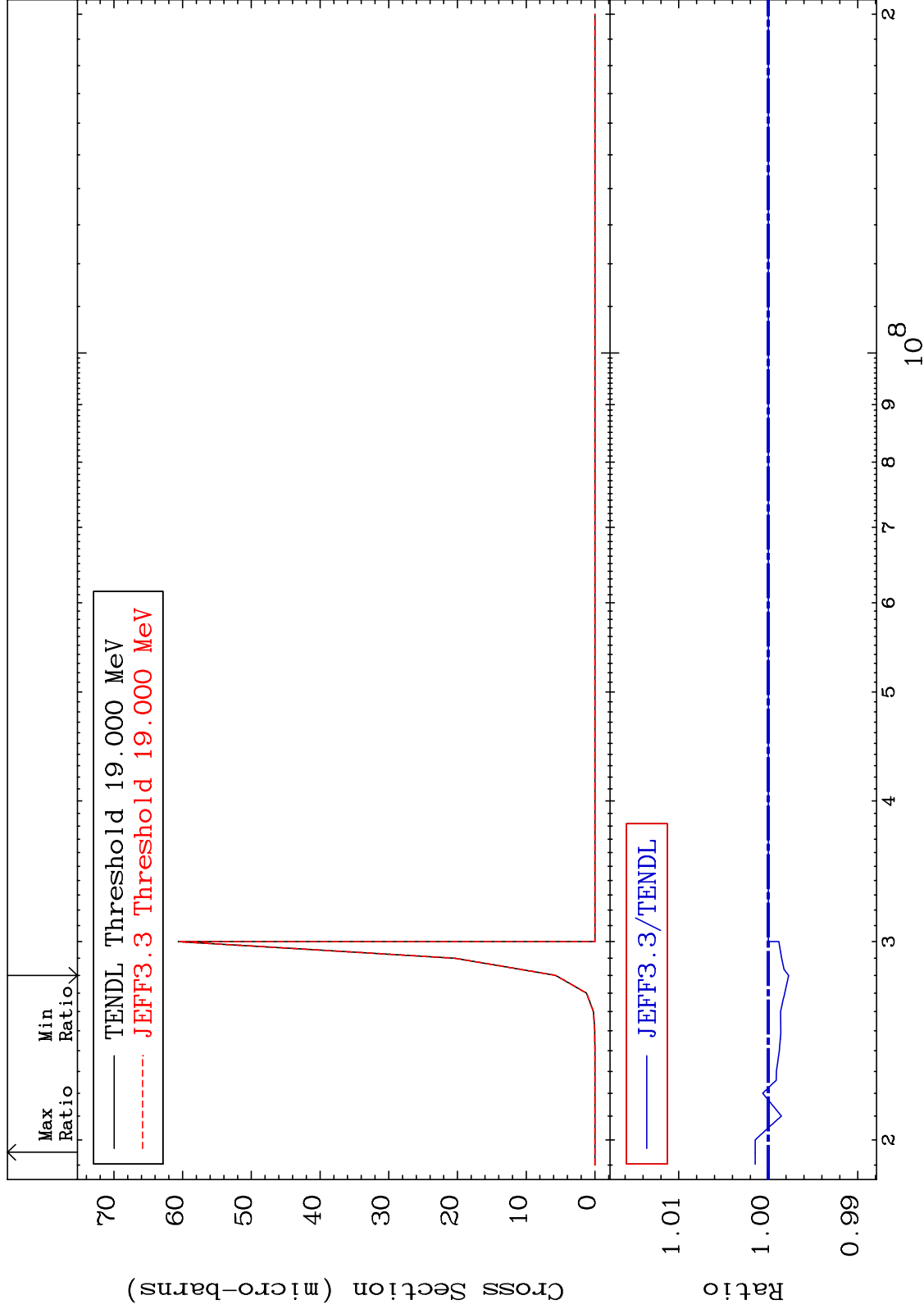


MAT 5431

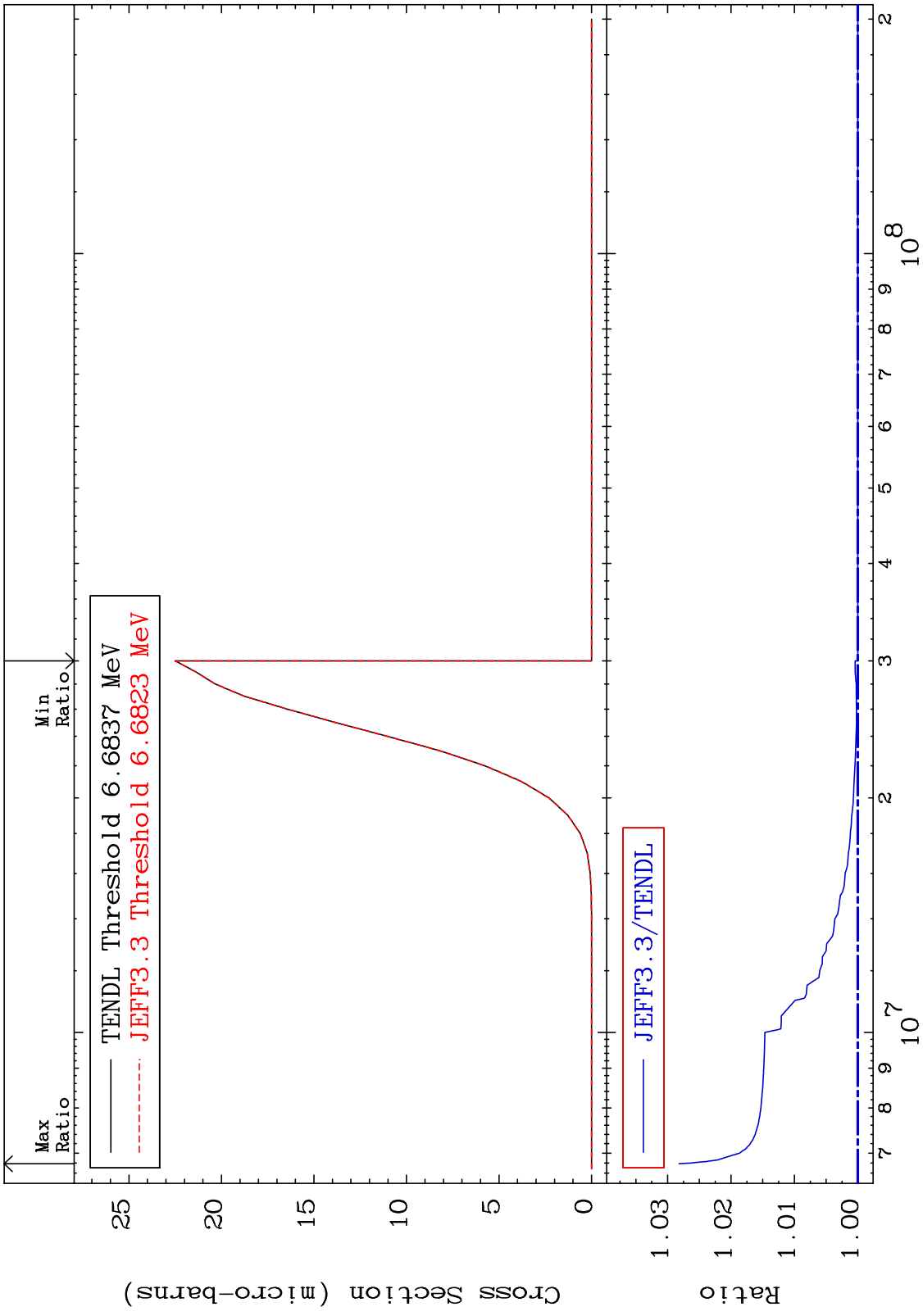
(n, n') He-3:52-Te-123m2

54-Xe-126

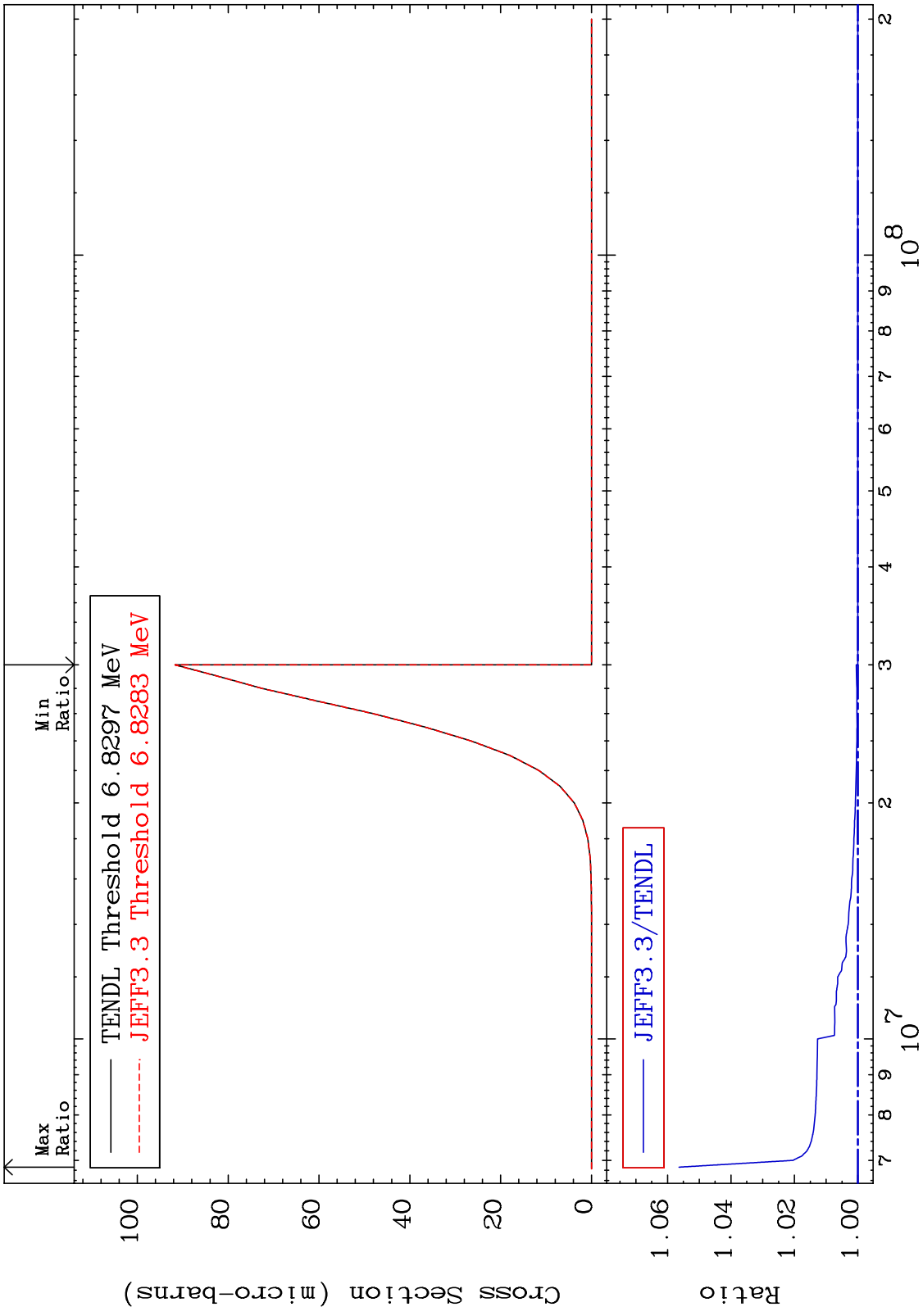
Radionuclide Production Cross Section -0.228 To 0.146 %



MAT 5431 (n,2p):52-Te-125g 54-Xe-126
 Radionuclide Production Cross Section 0.000 To 2.820 %

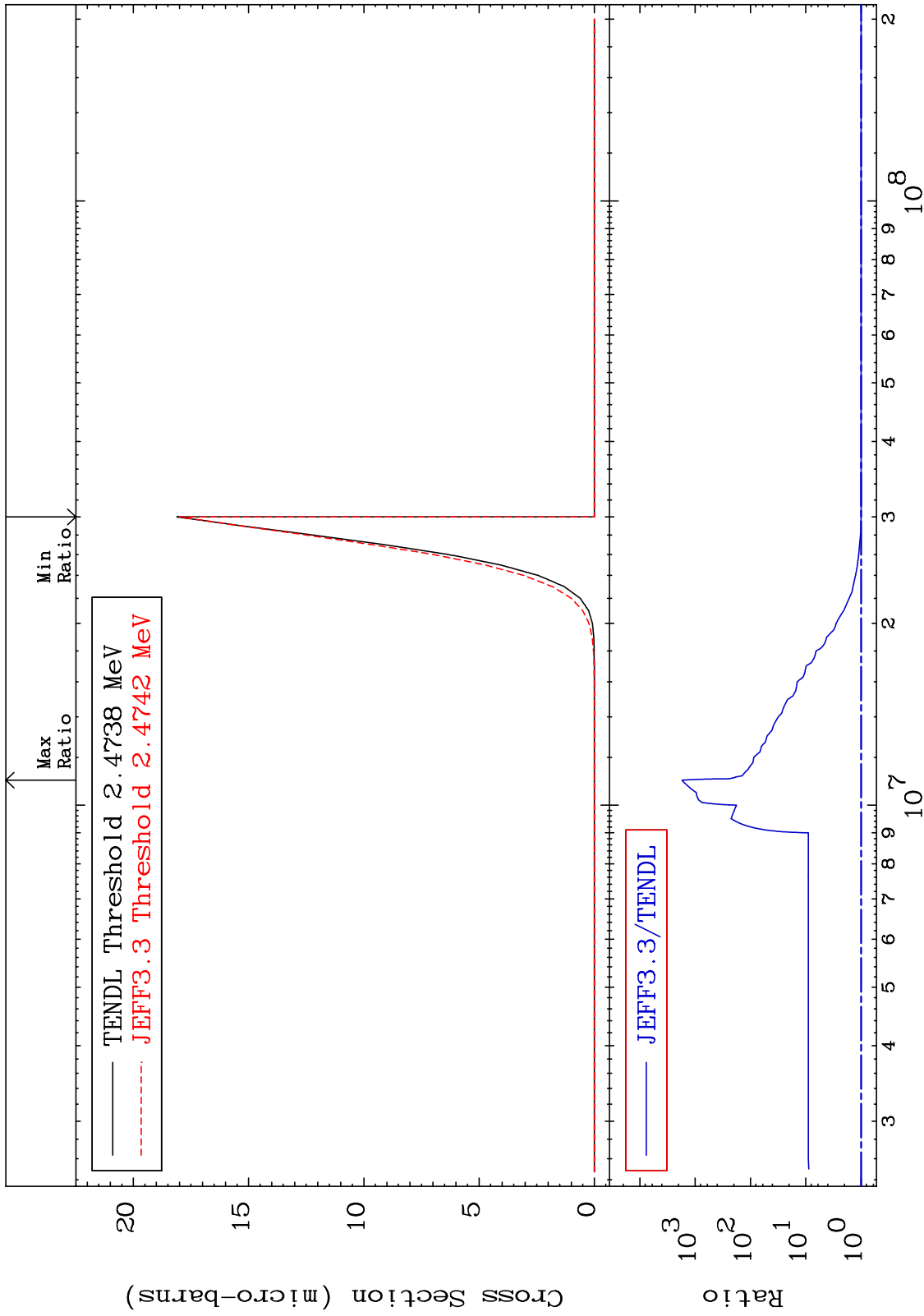


MAT 5431 (n,2p):52-Te-125m2 54-Xe-126
 Radionuclide Production Cross Section 0.000 To 5.638 %



MAT 5431

(n,p) α :51-Sb-122g 54-Xe-126
Radionuclide Production Cross Section -0.570 To 9999. %

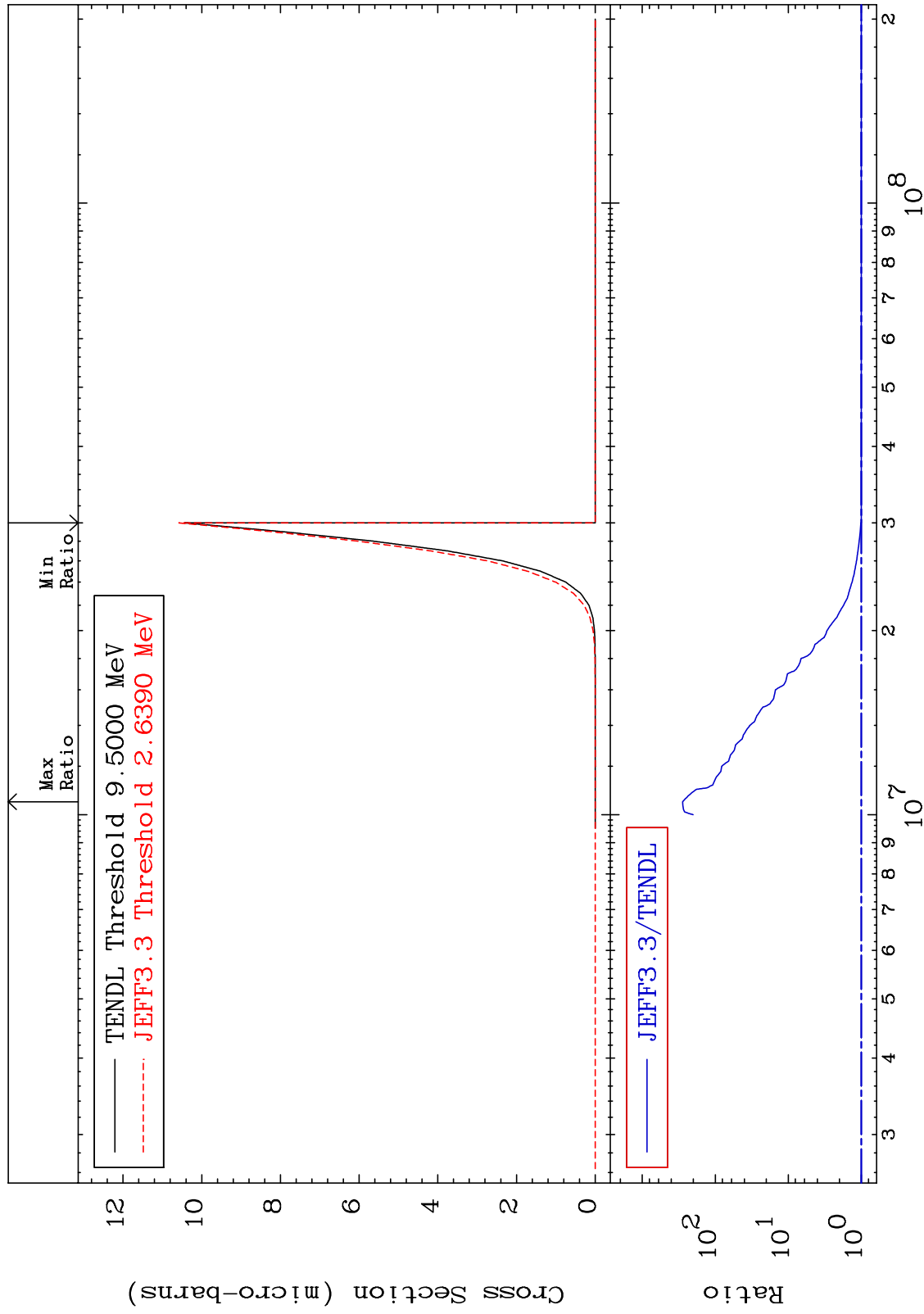


MAT 5431

(n, p) α :51-Sb-122m5

54-Xe-126

Radionuclide Production Cross Section 0.000 To 9999. %

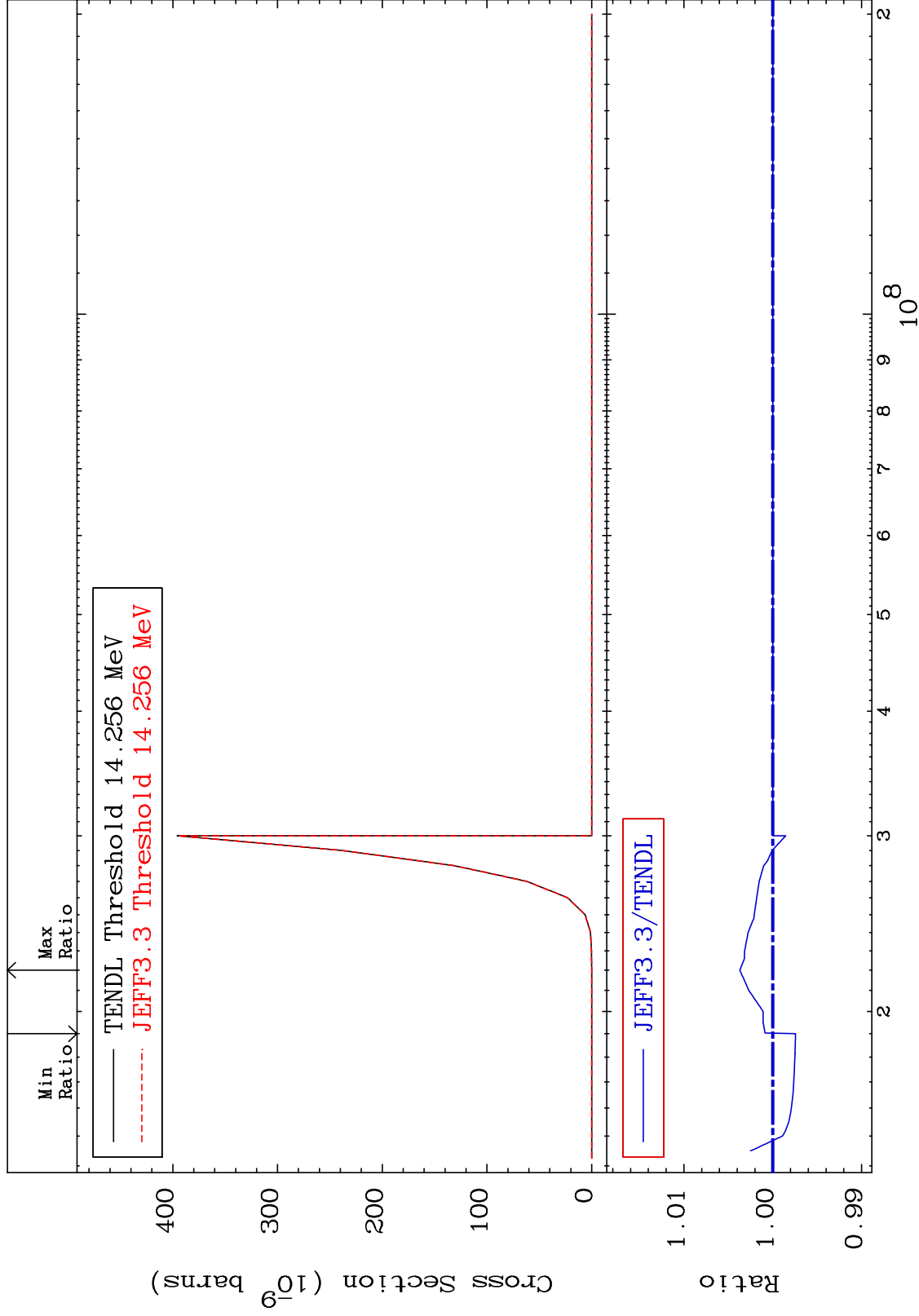


MAT 5431

(n,p) t:52-Te-123g

54-Xe-126

Radionuclide Production Cross Section -0.257 To 0.370 %



90

Incident Energy (eV)

54-Xe-126

MAT 5431

(n,p) t:52-Te-123m2

54-Xe-126

Radionuclide Production Cross Section -0.262 To 0.124 %

