

Program Complot
(Version 2018-1)

by

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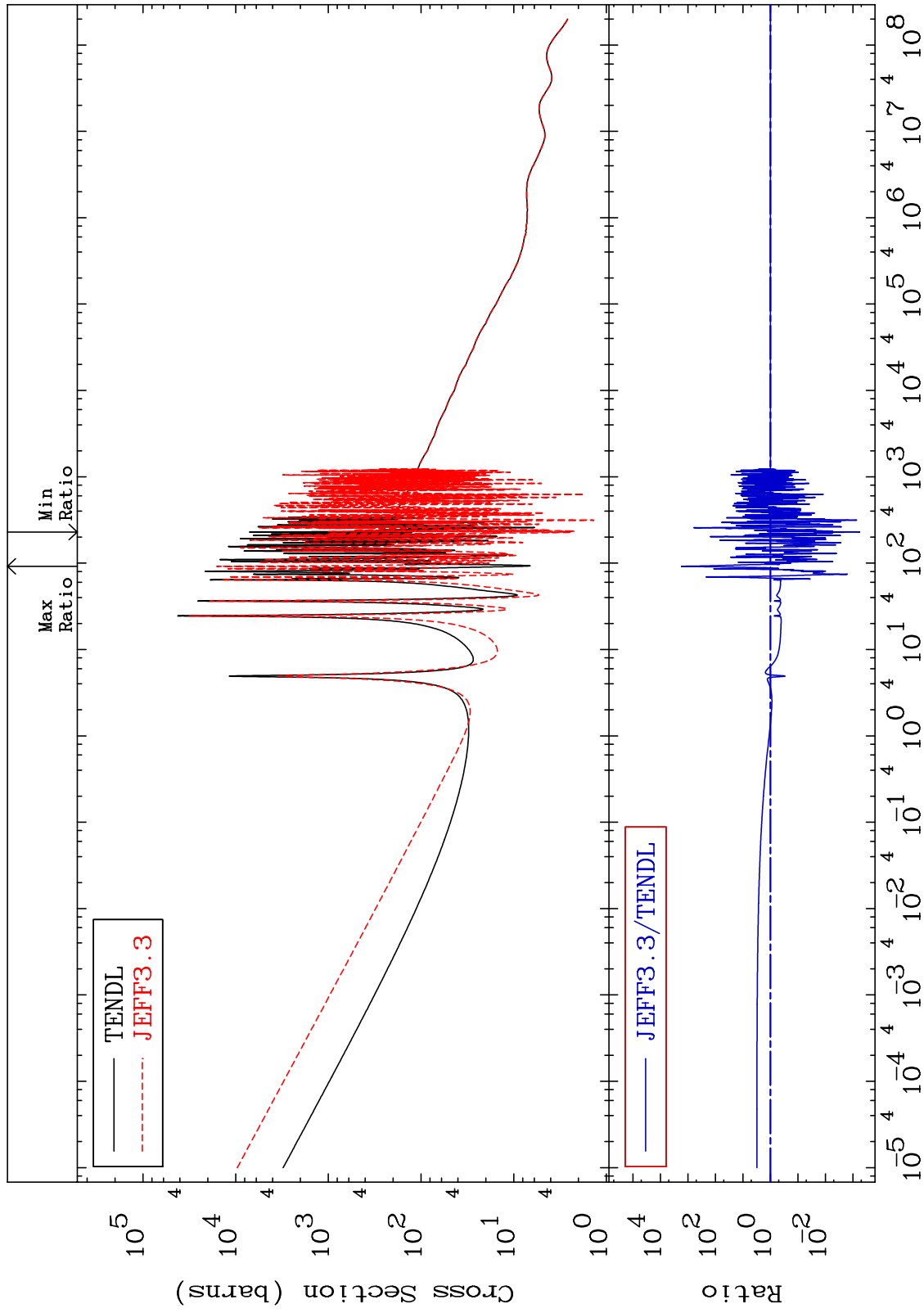
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6931

Total
Cross Section

69-Tm-171
-99.94 To 9999. %



1

Incident Energy (eV)

69-Tm-171

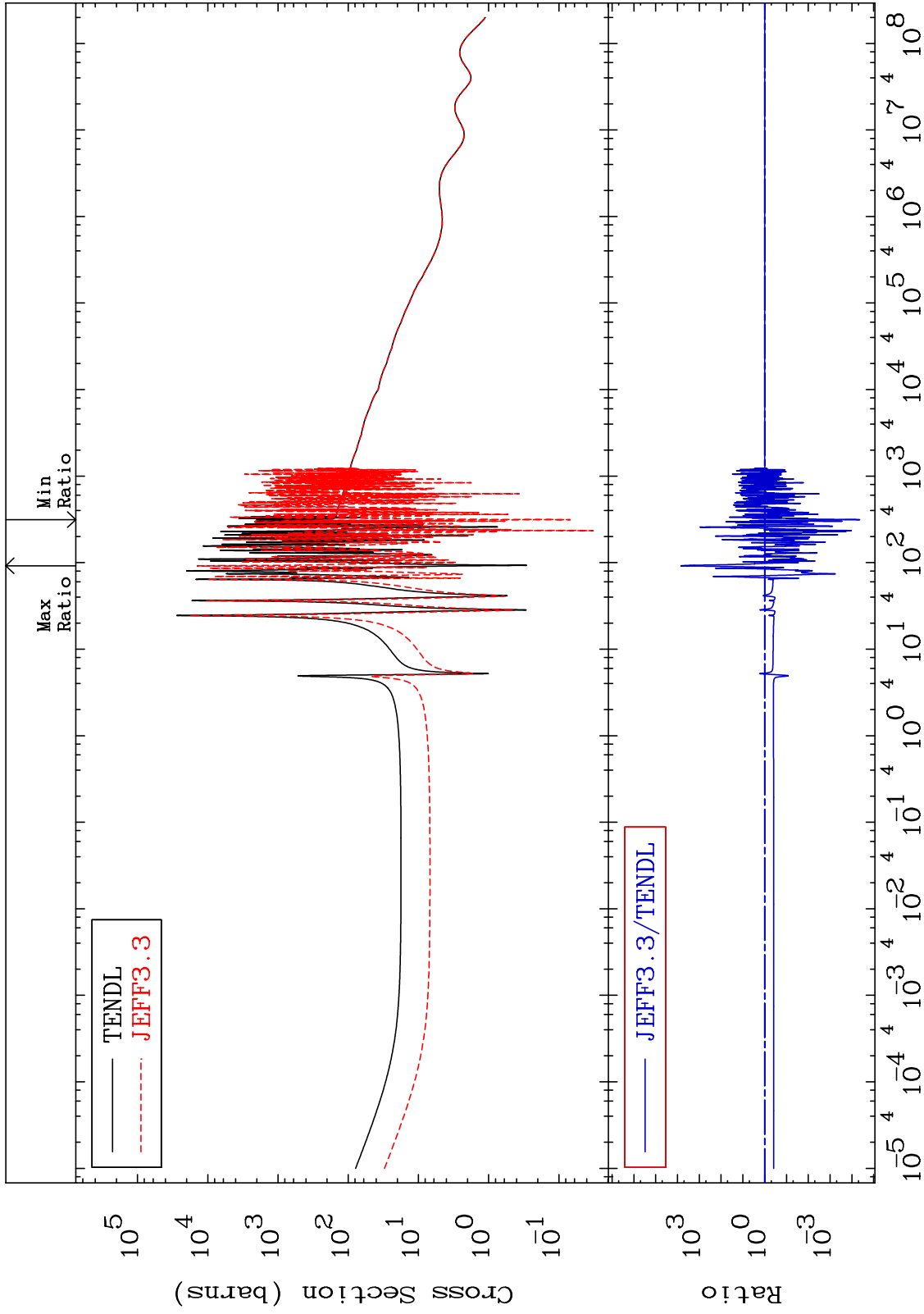
MAT 6931

Elastic

69-Tm-171

Cross Section

-100.0 To 9999. %



2

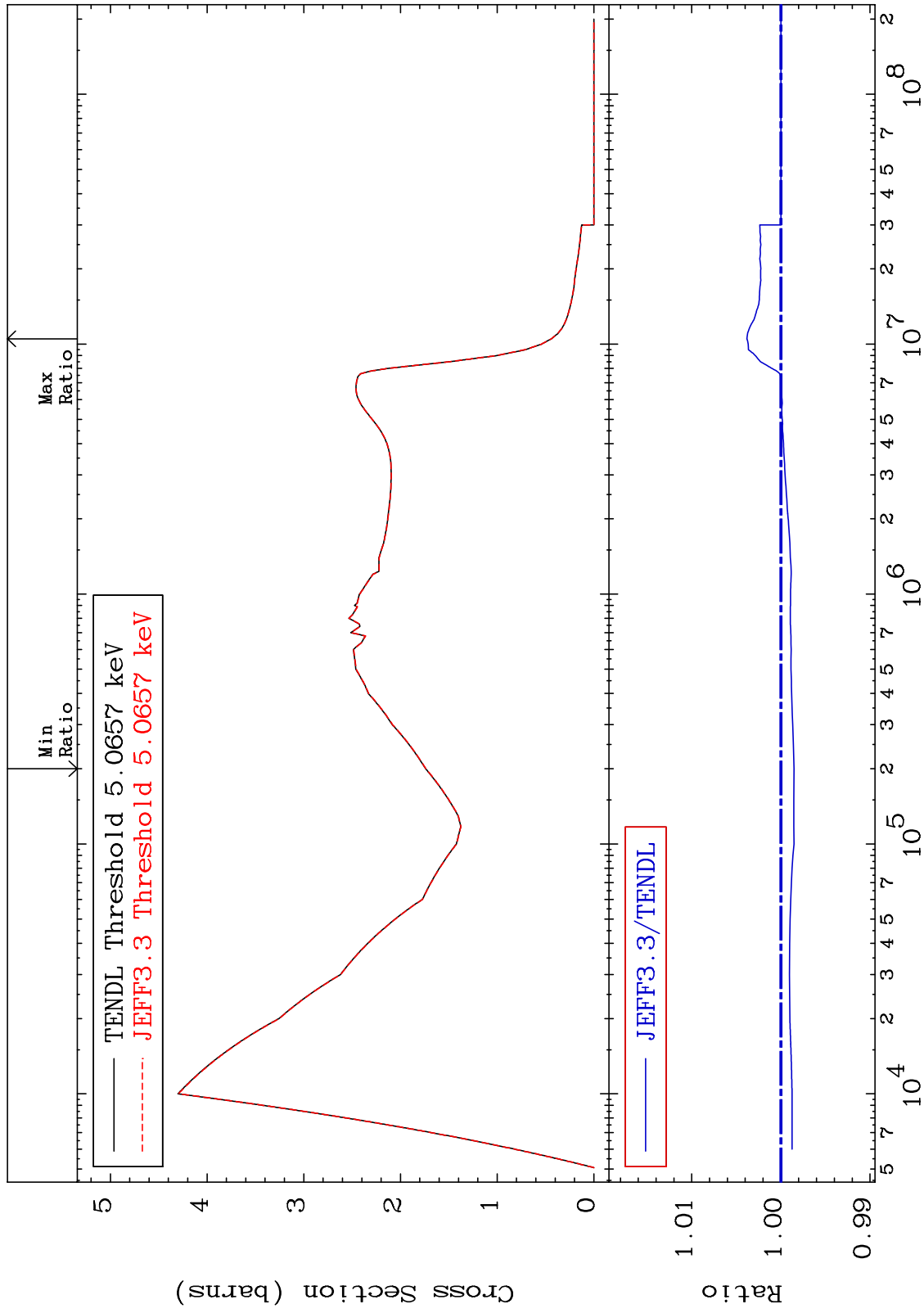
Incident Energy (eV)

69-Tm-171

MAT 6931

Inelastic
Cross Section

69-Tm-171
-0.148 To 0.381 %

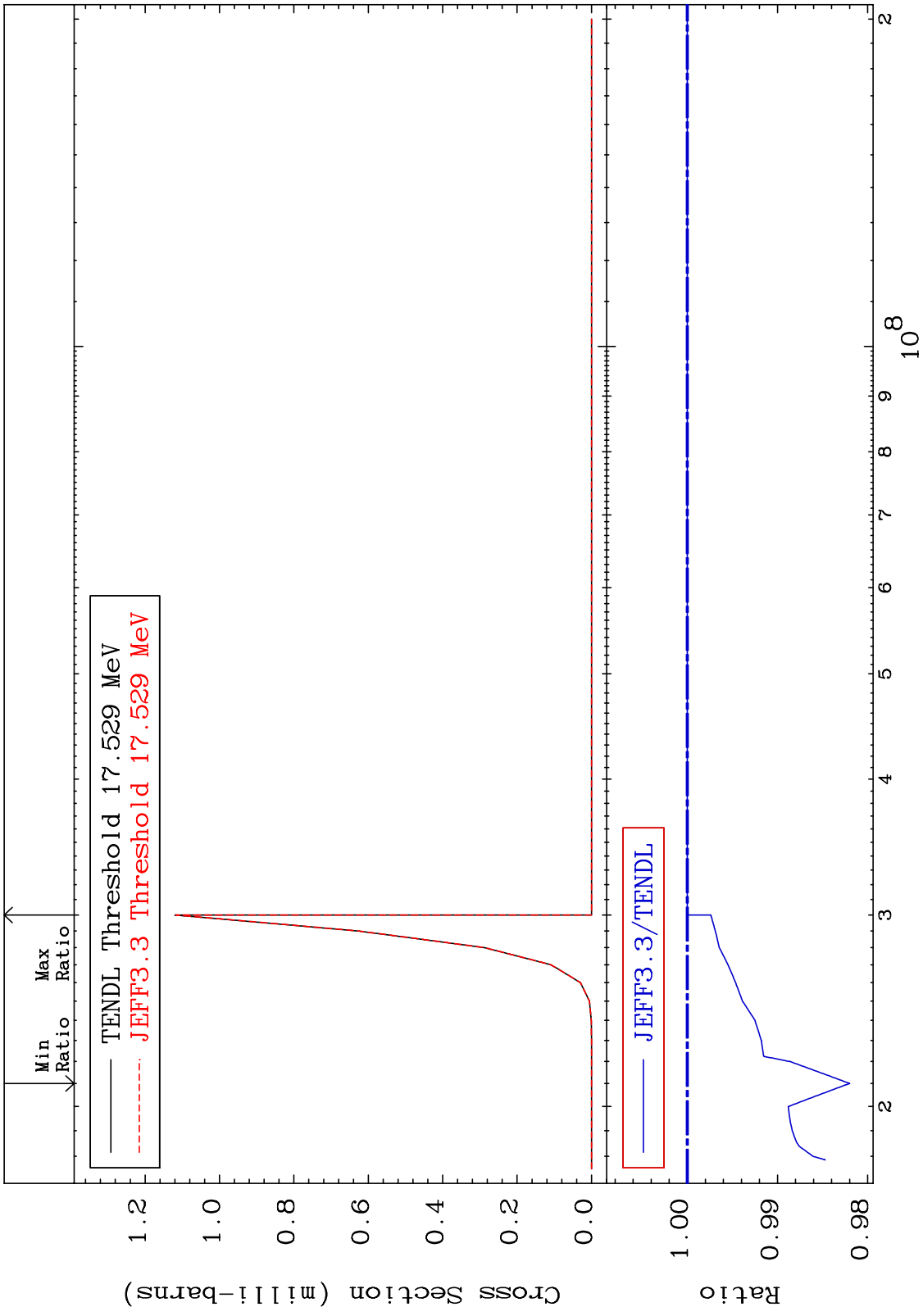


3

Incident Energy (eV)

69-Tm-171

MAT 6931 (n,2n) d 69-Tm-171
 Cross Section -1.799 To 0.000 %



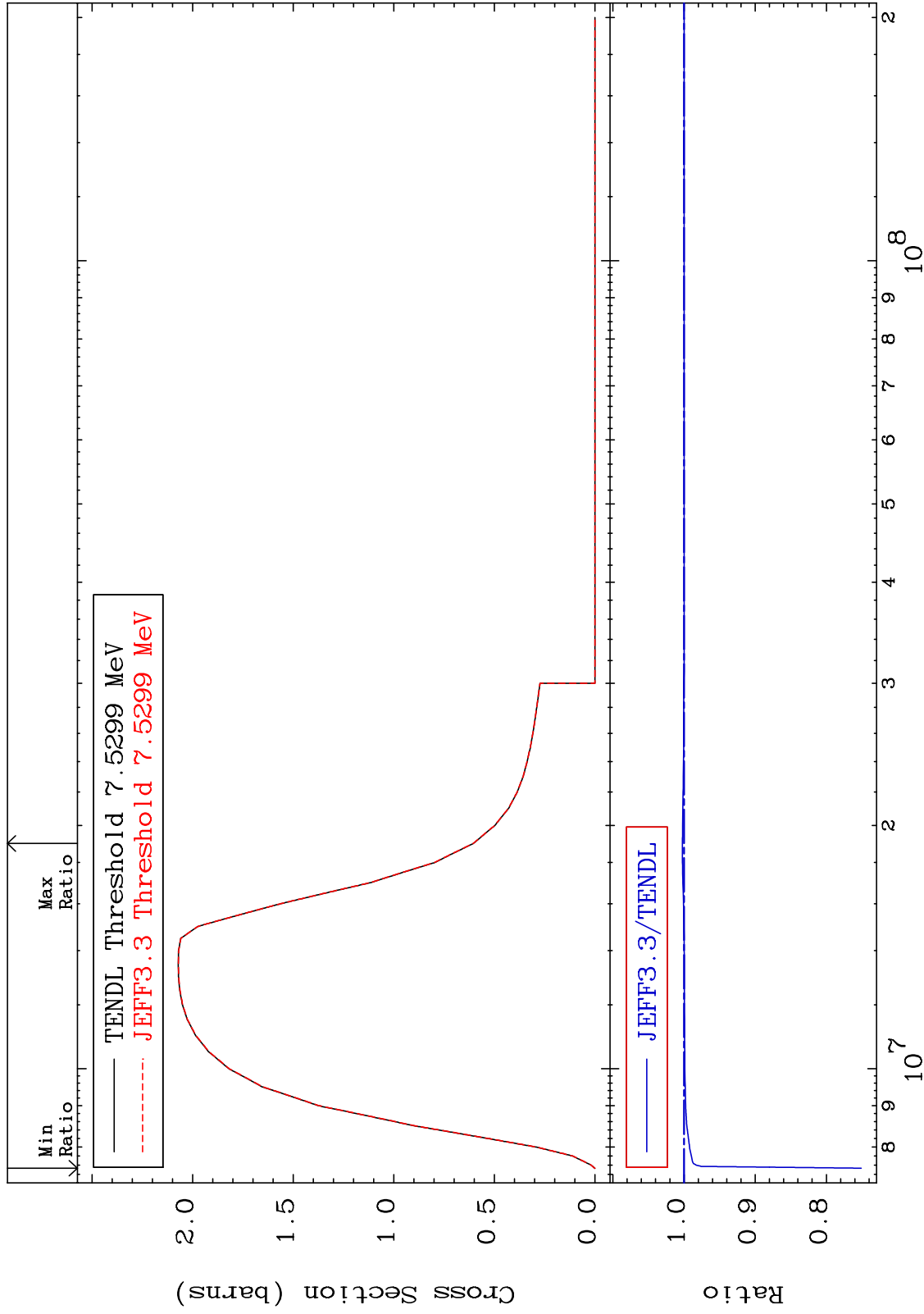
MAT 6931

(n,2n)

69-Tm-171

-24.91 To 0.226 %

Cross Section



5

Incident Energy (eV)

69-Tm-171

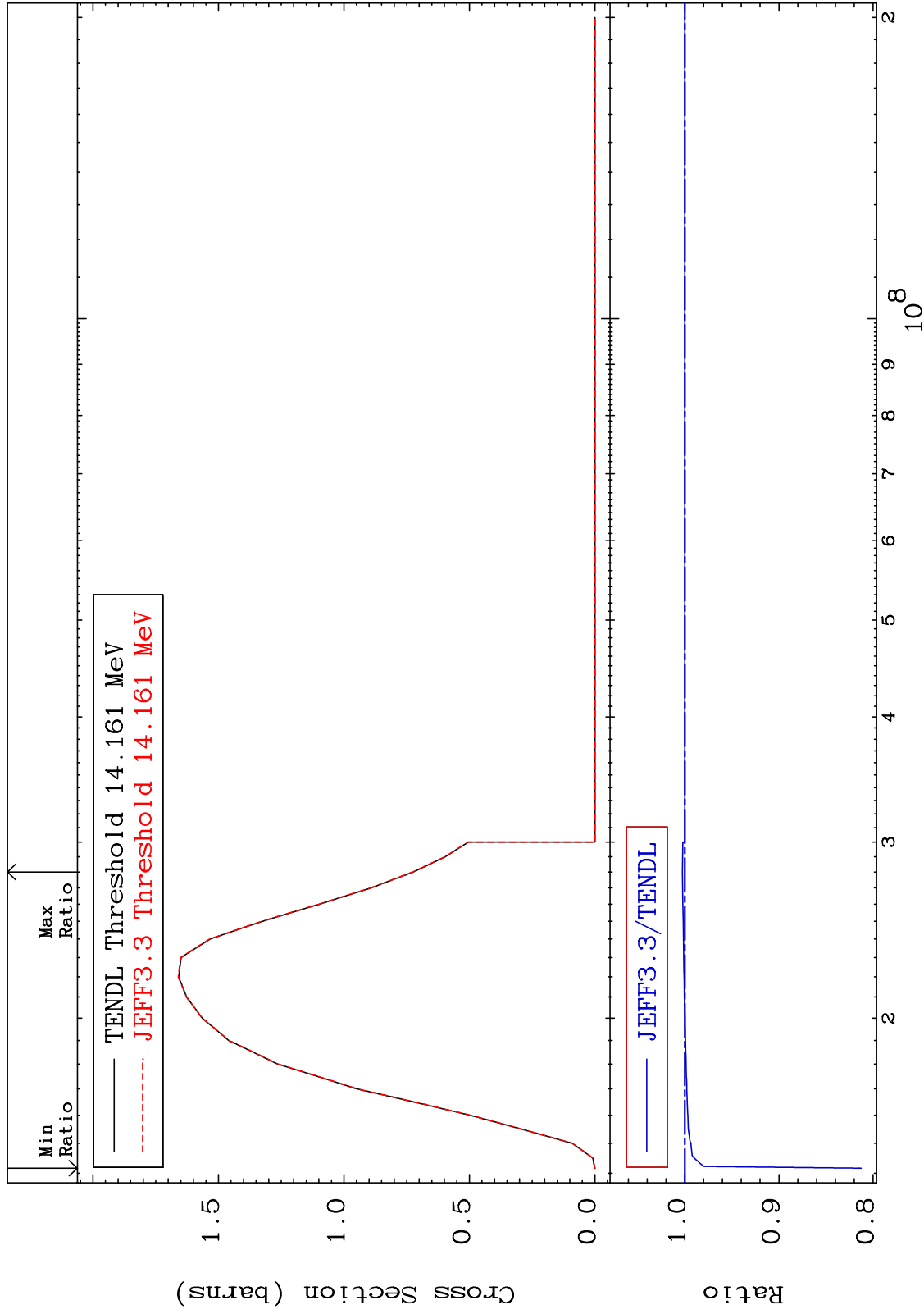
MAT 6931

(n,3n)

69-Tm-171

-18.76 To 0.258 %

Cross Section



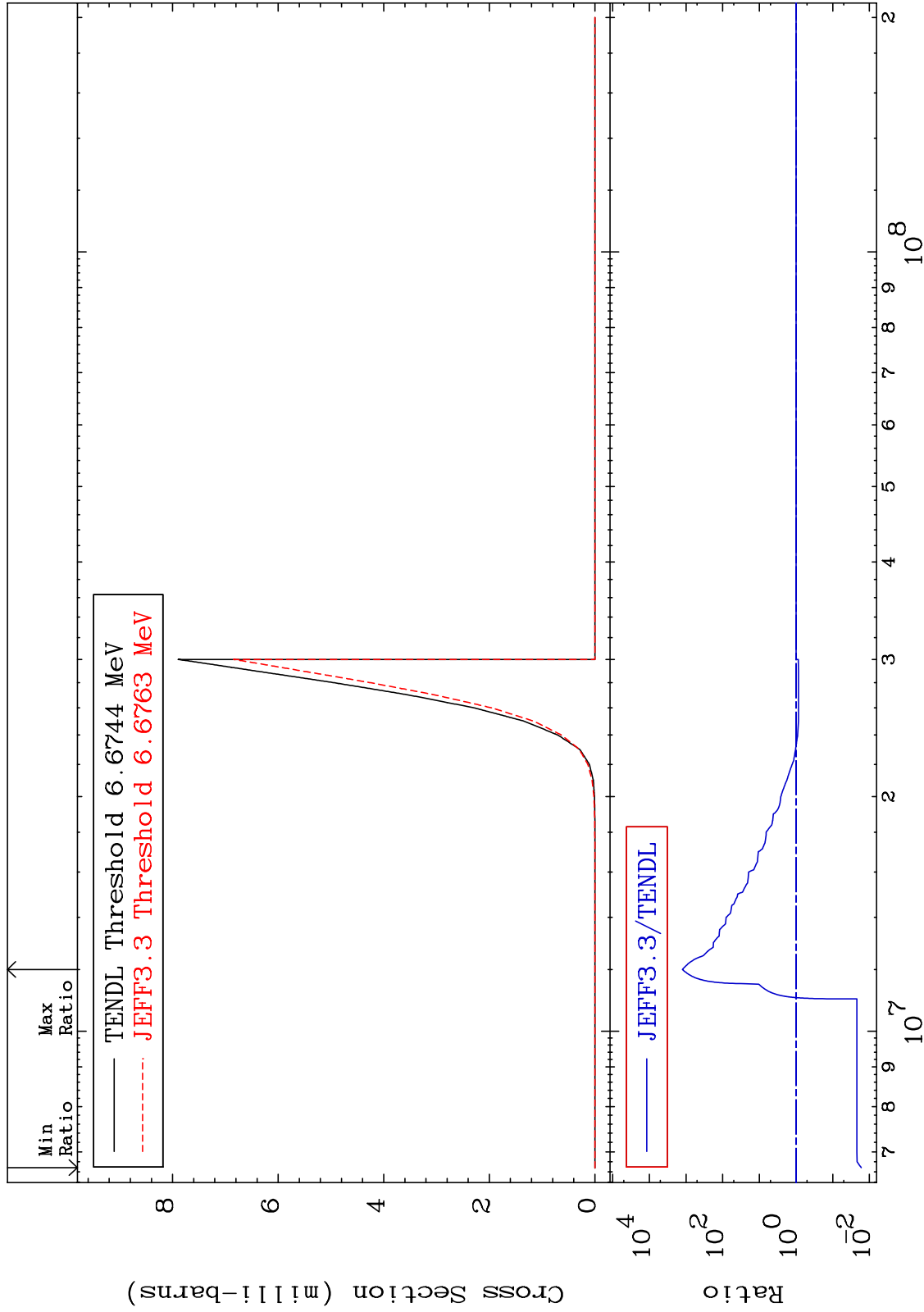
MAT 6931

(n,2n) α

69-Tm-171

Cross Section

-98.33 To 9999. %



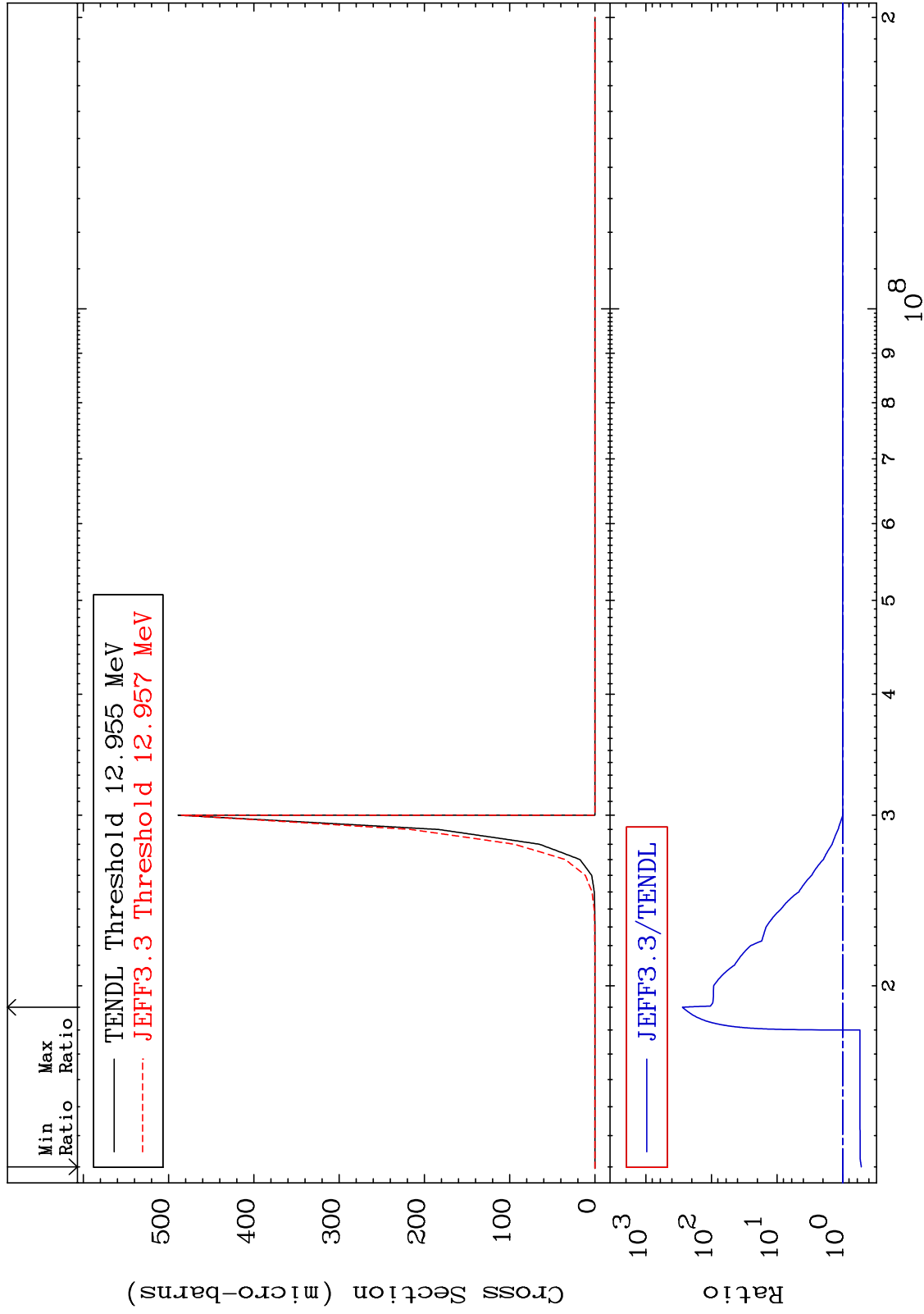
MAT 6931

(n,3n) α

69-Tm-171

Cross Section

-47.83 To 9999. %



MAT 6931

(n, n') p

69-Tm-171

-60.64 To 0.006 %

Cross Section

Min Ratio

Max Ratio

TENDL Threshold 6.4283 MeV
JEFF3.3 Threshold 6.4291 MeV

Cross Section (milli-barns)

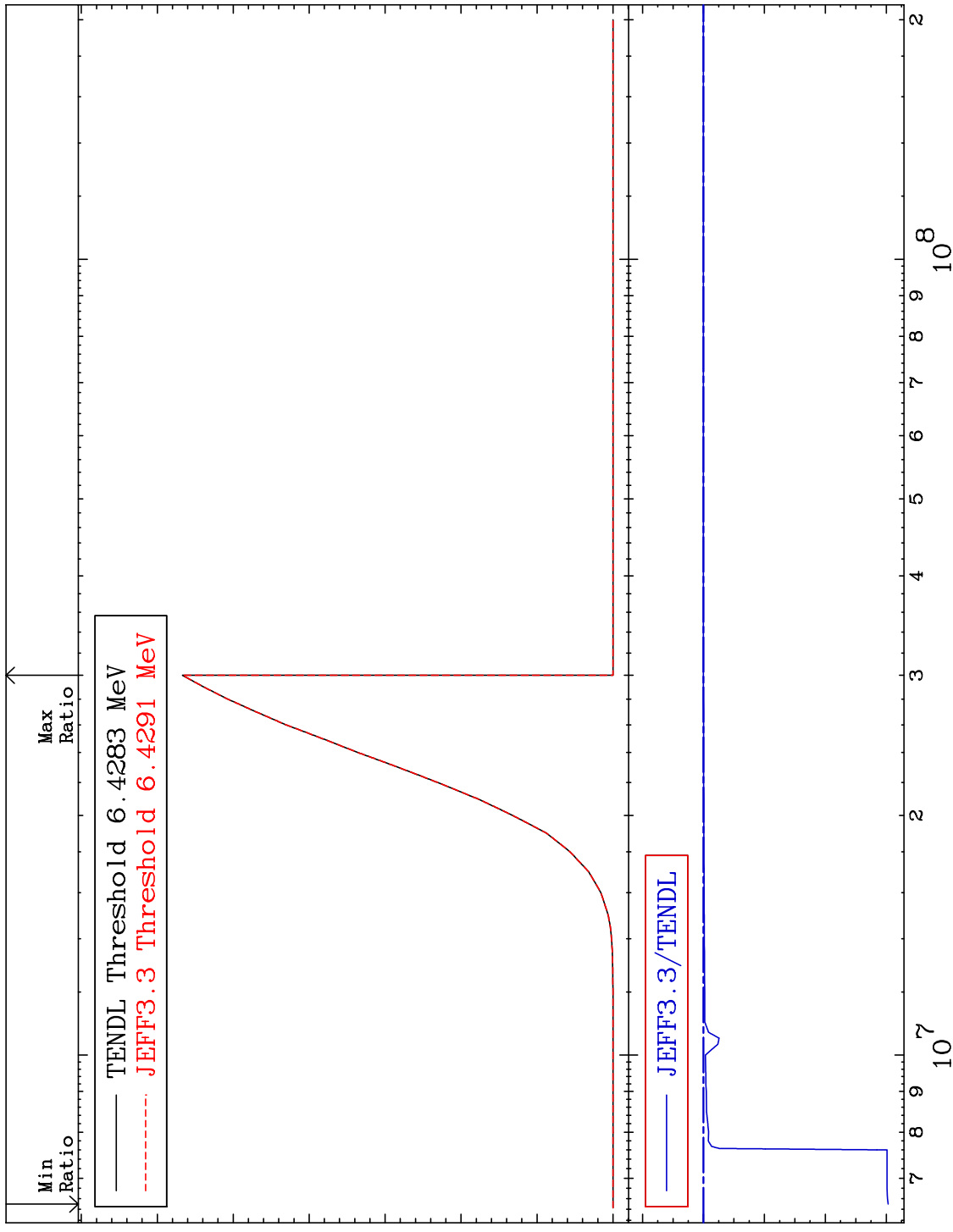
JEFF3.3/TENDL

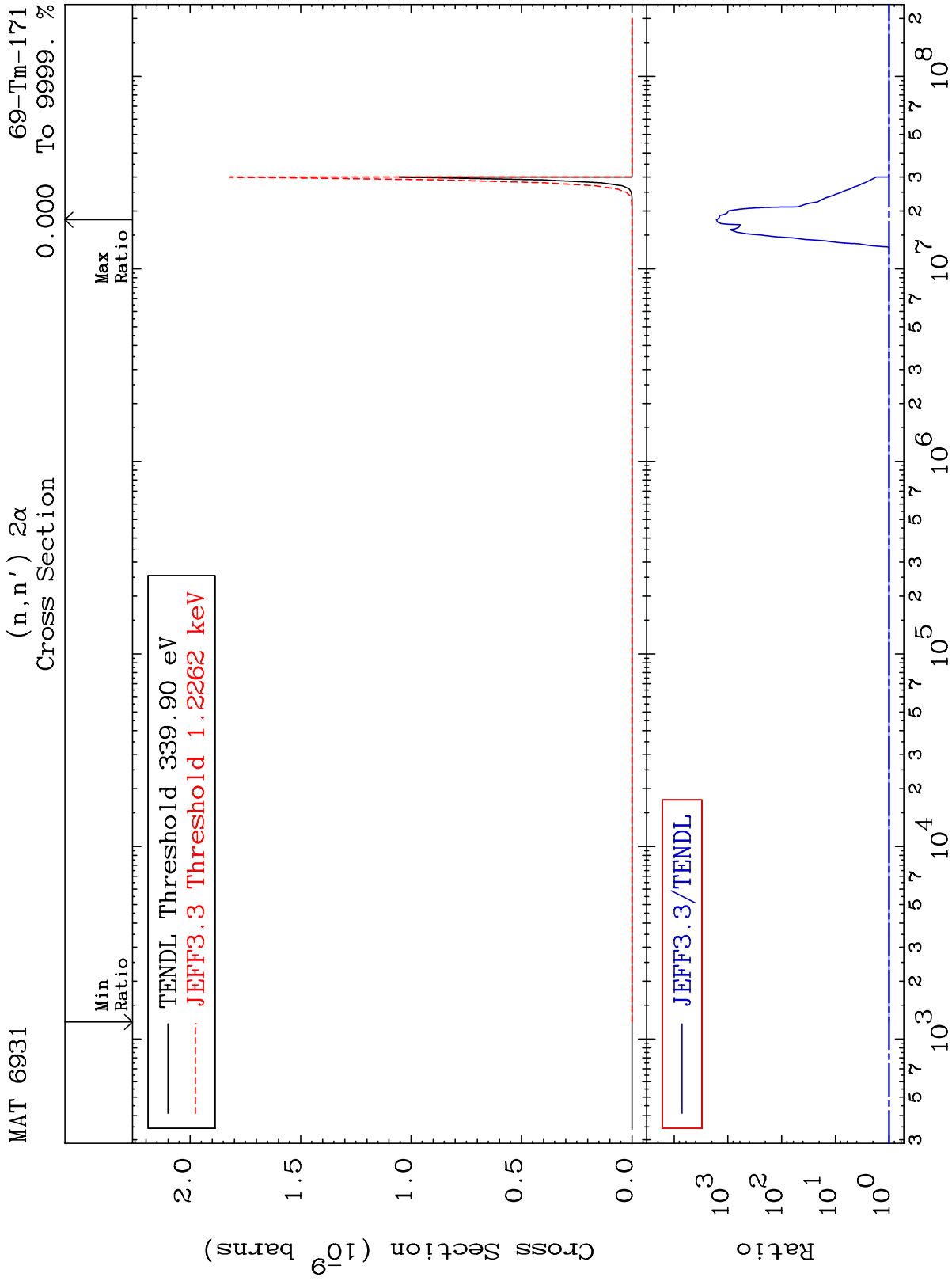
Ratio

10

Incident Energy (eV)

69-Tm-171





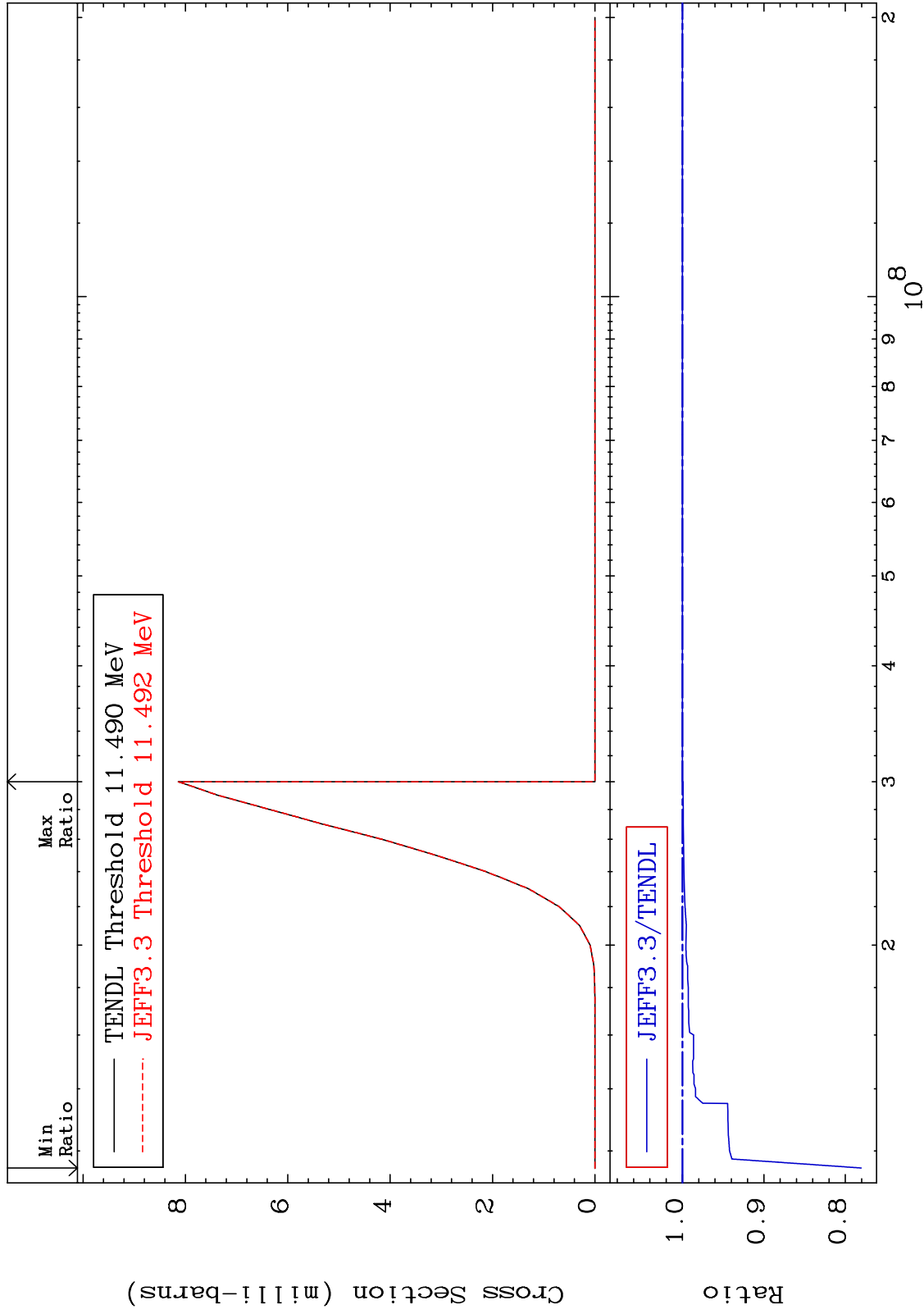
MAT 6931

(n, n') d

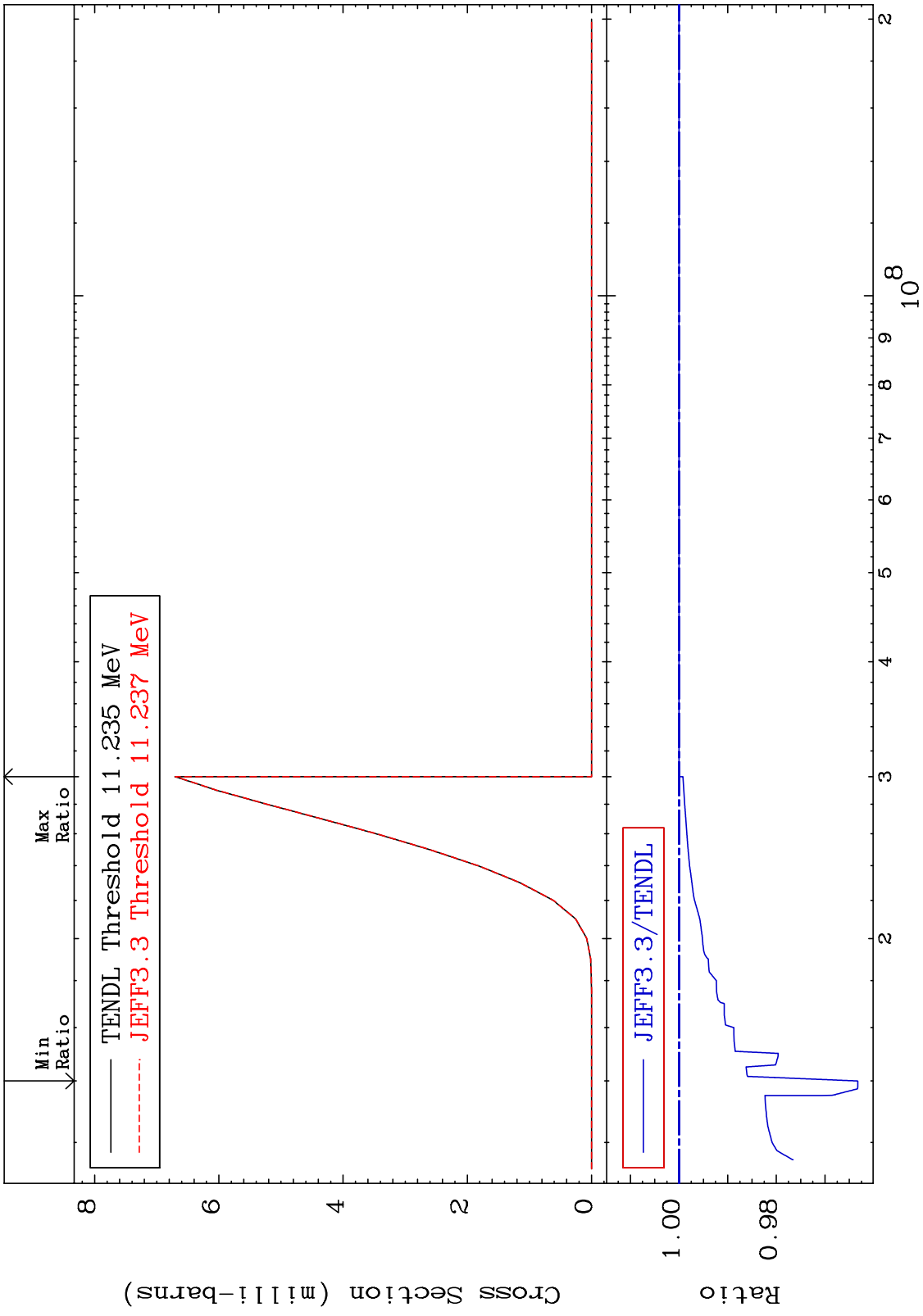
69-Tm-171

Cross Section

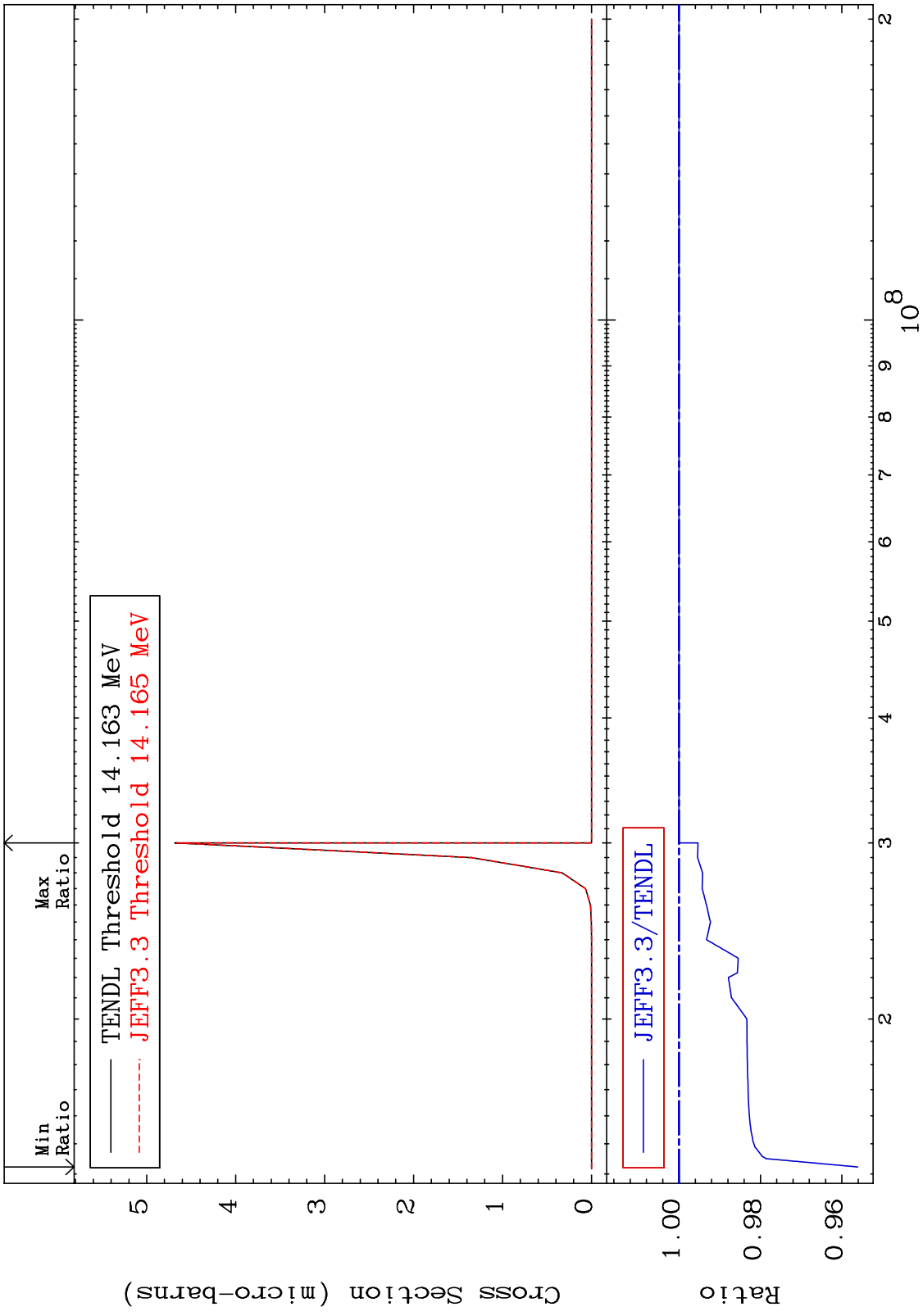
-21.96 To 0.000 %



MAT 6931 (n, n') t 69-Tm-171
 Cross Section -3.675 To 0.000 %



MAT 6931 (n, n') He-3 69-Tm-171
 Cross Section -4.391 To 0.000 %



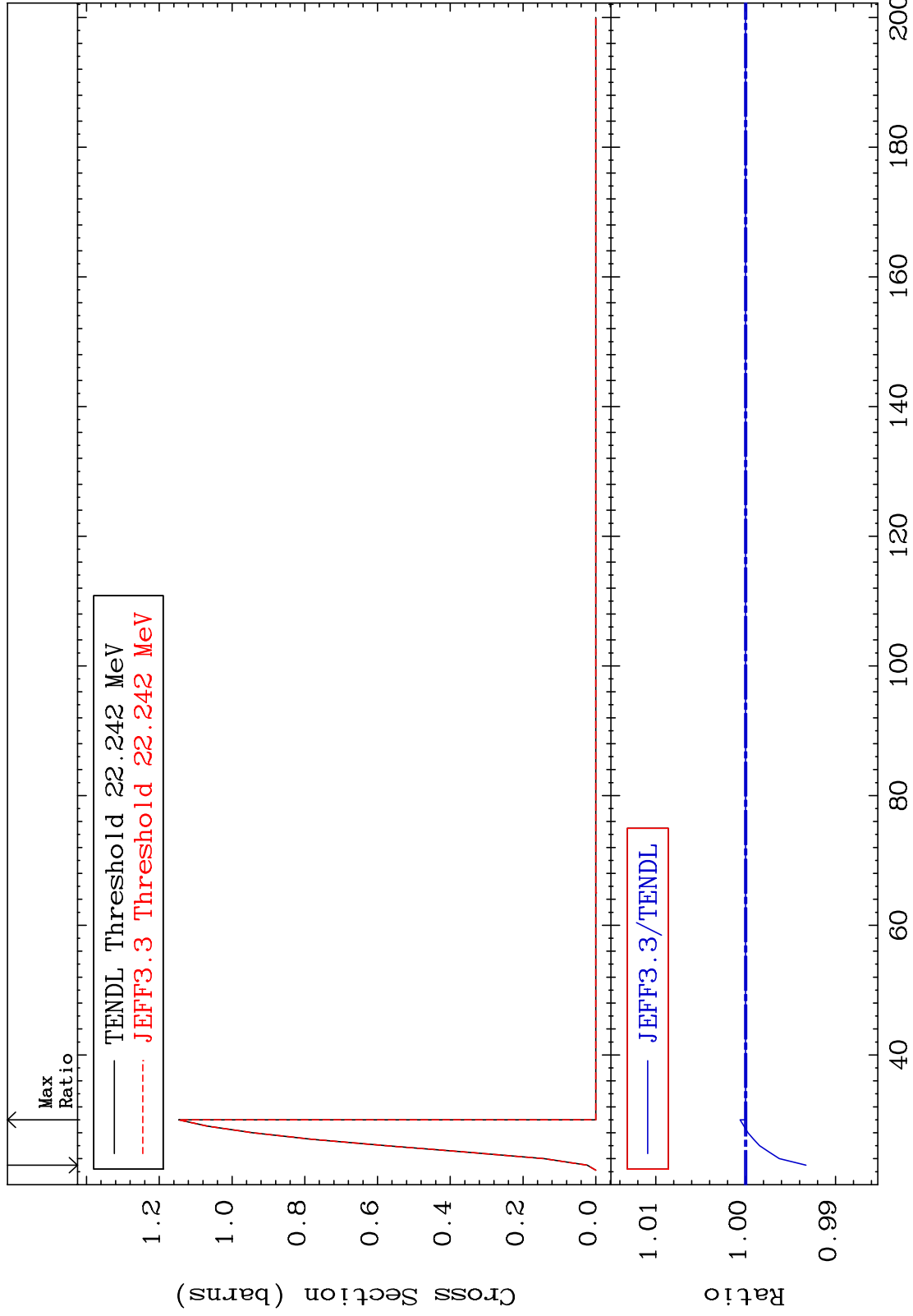
MAT 6931

(n,4n)

69-Tm-171

Cross Section

-0.671 To 0.062 %



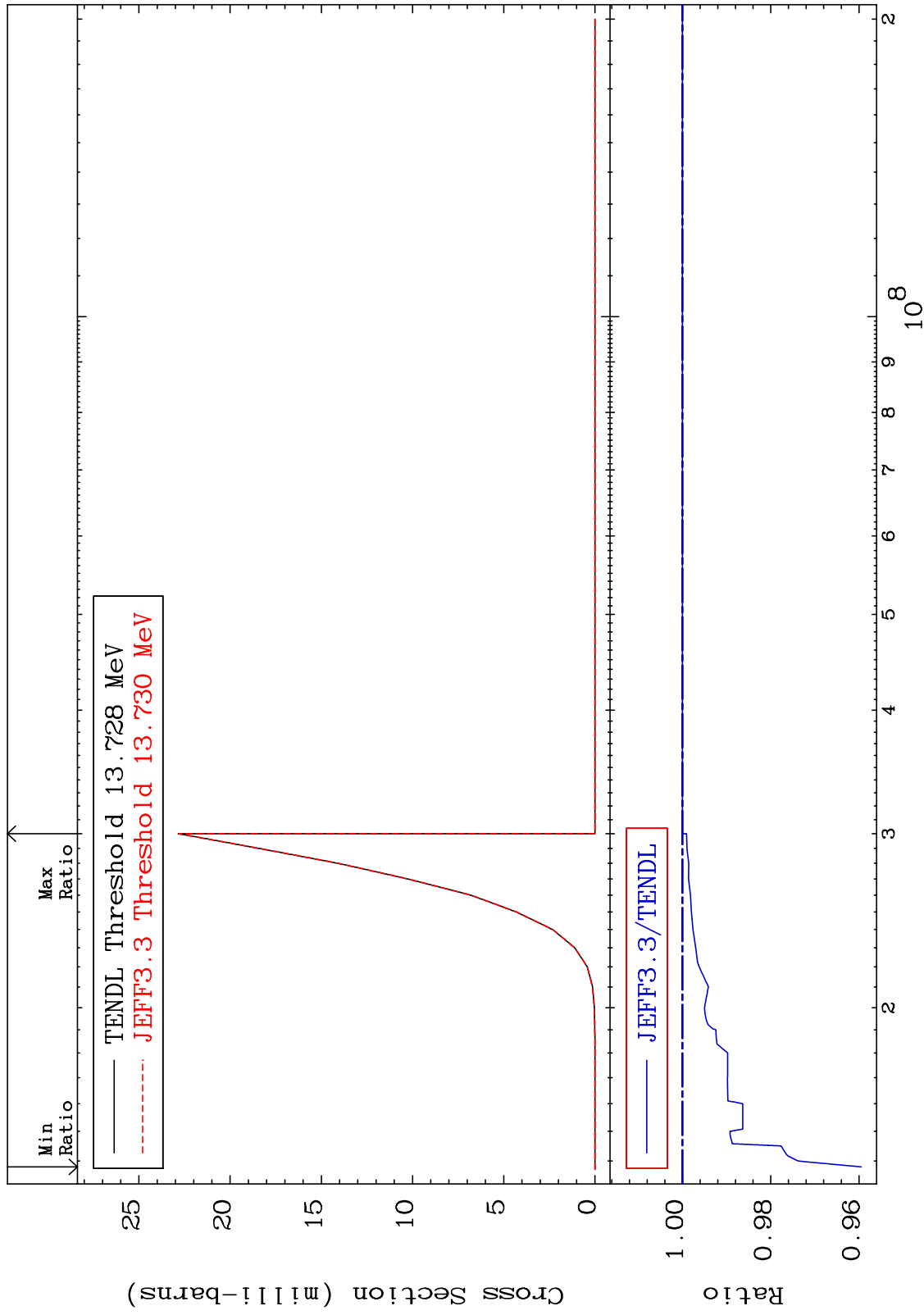
MAT 6931

(n,2n) p

69-Tm-171

Cross Section

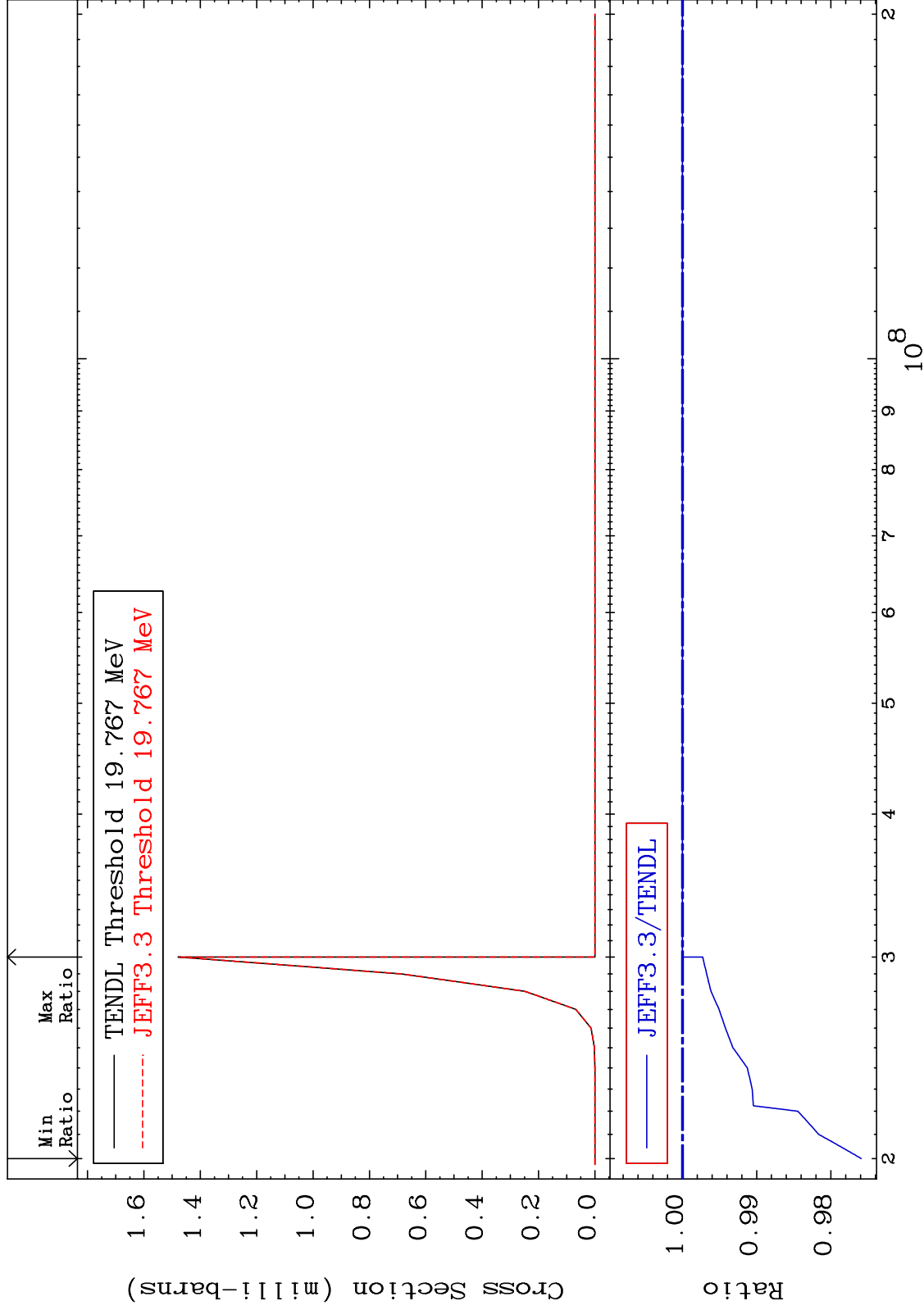
-4.051 To 0.000 %



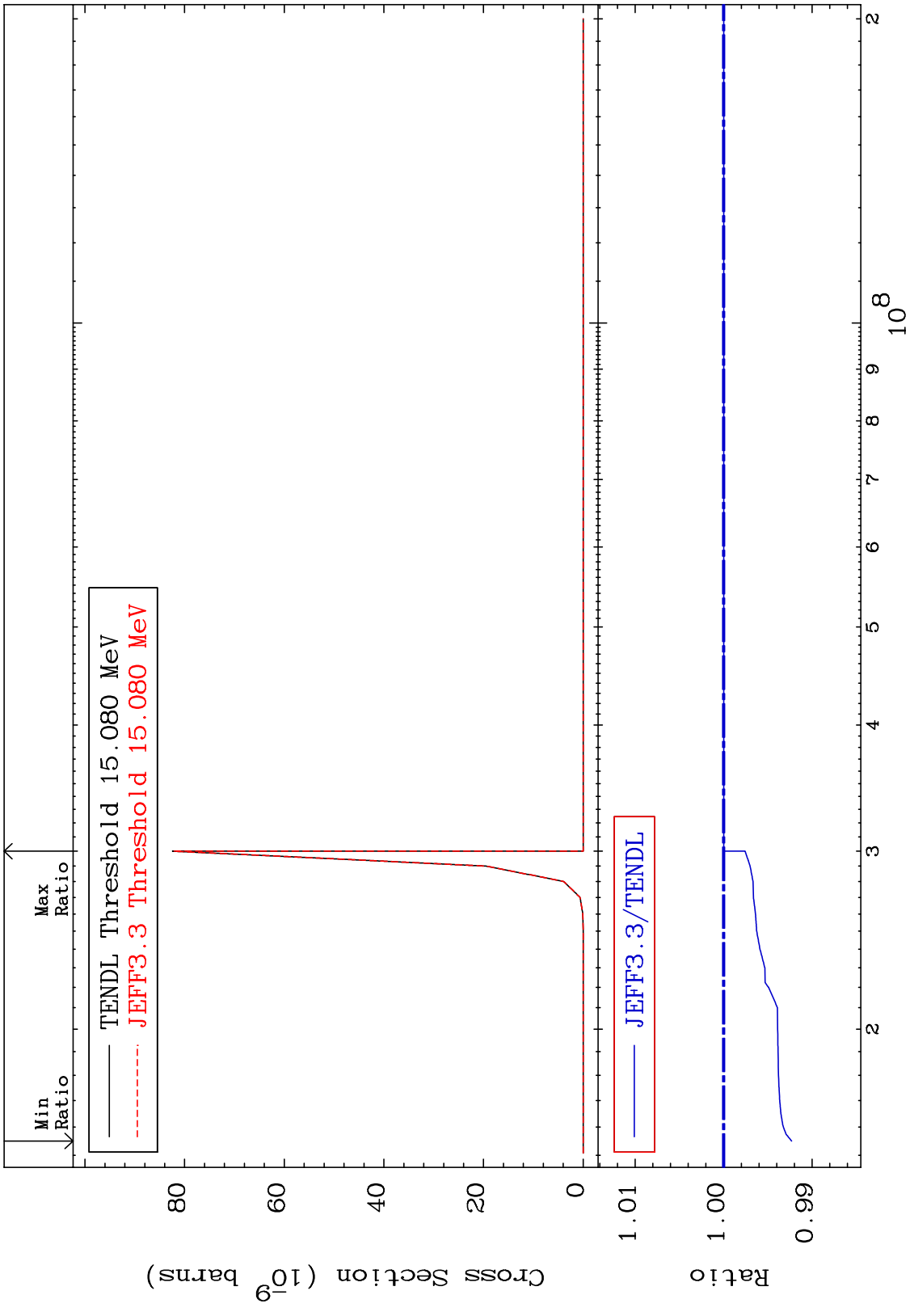
MAT 6931

(n,3n) p
Cross Section

69-Tm-171
-2.410 To 0.000 %



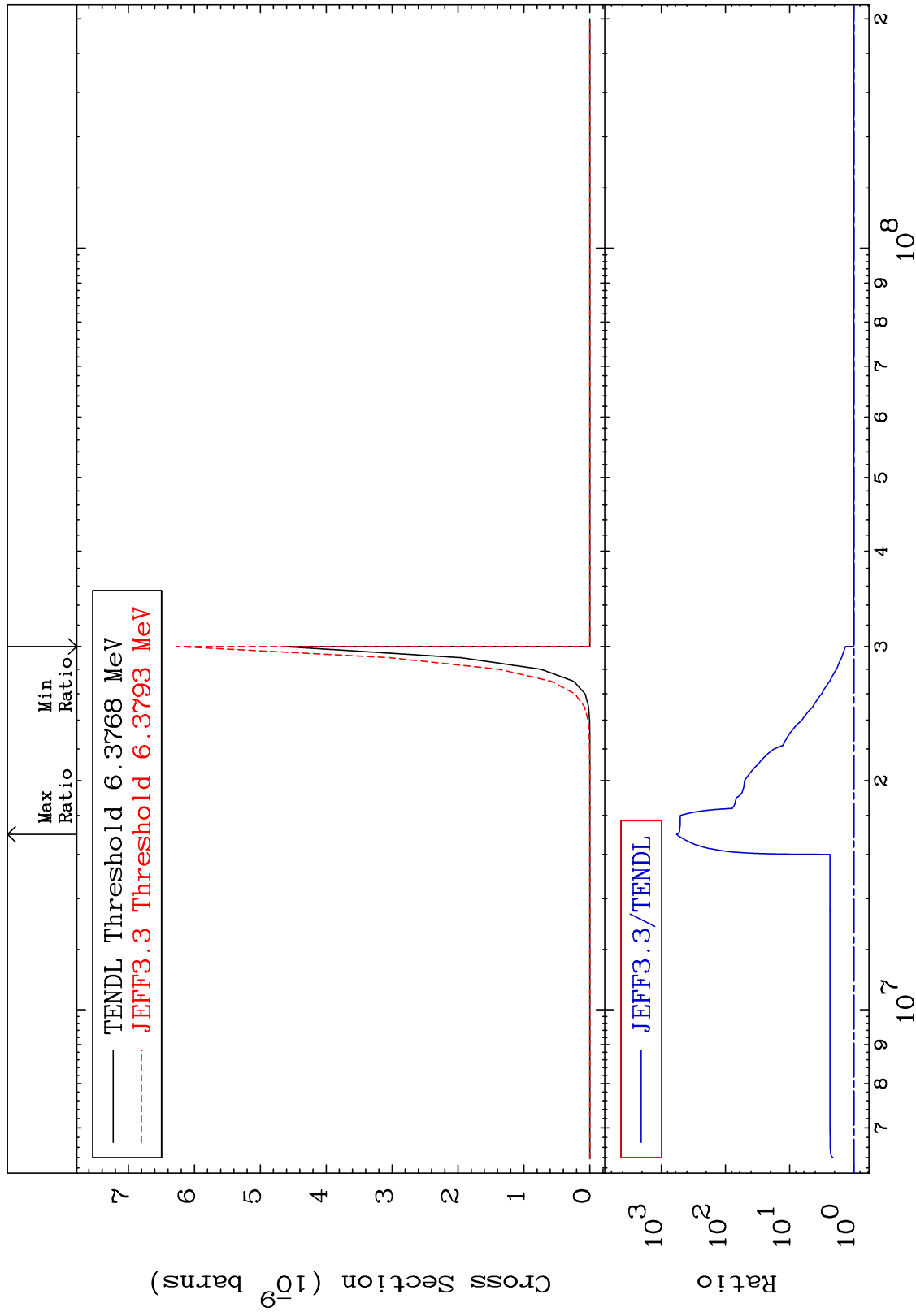
MAT 6931 (n,2n) p 69-Tm-171
 Cross Section -0.768 To 0.000 %



MAT 6931

(n,n') p α
Cross Section

69-Tm-171
0.000 To 9999. %

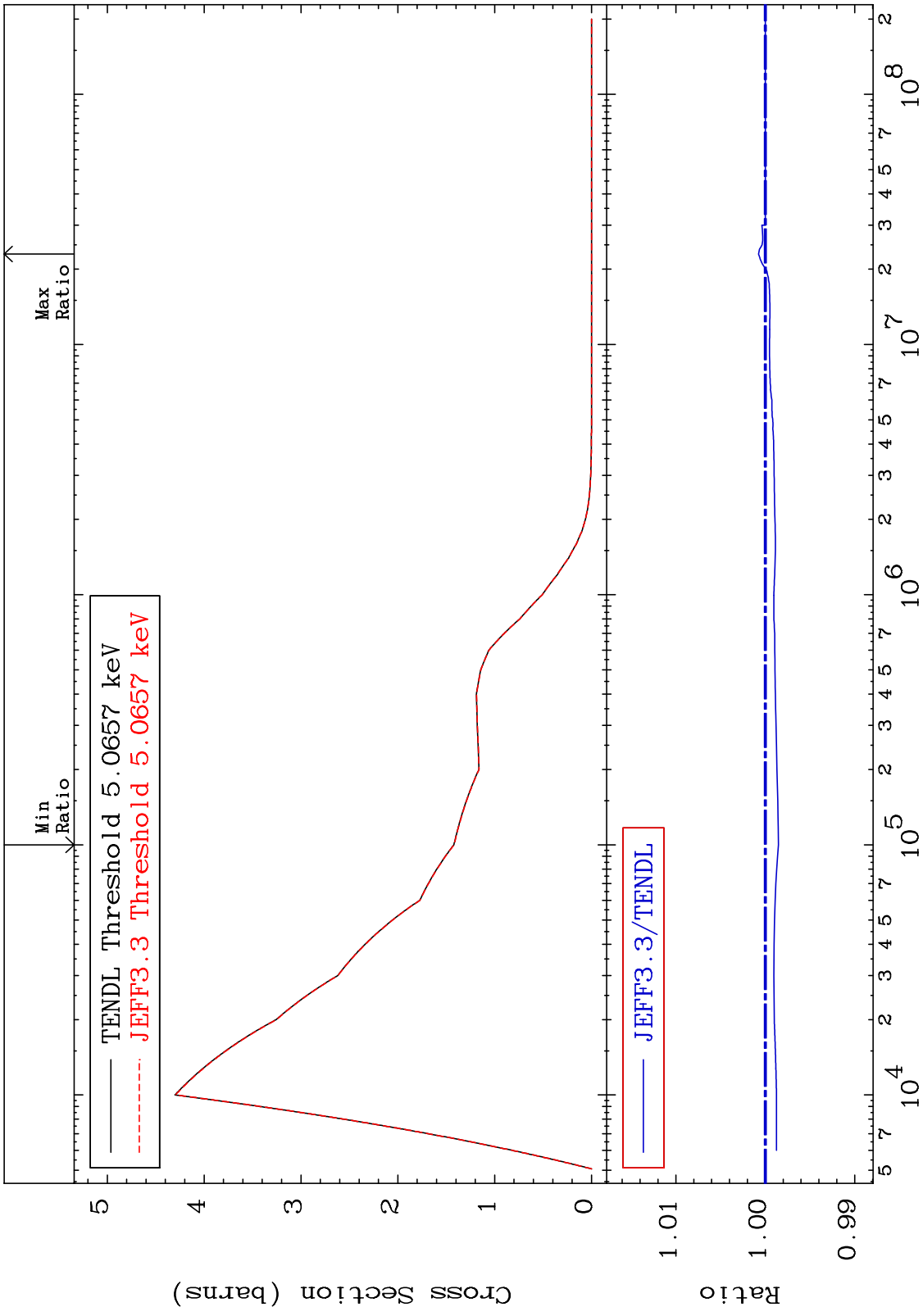


19

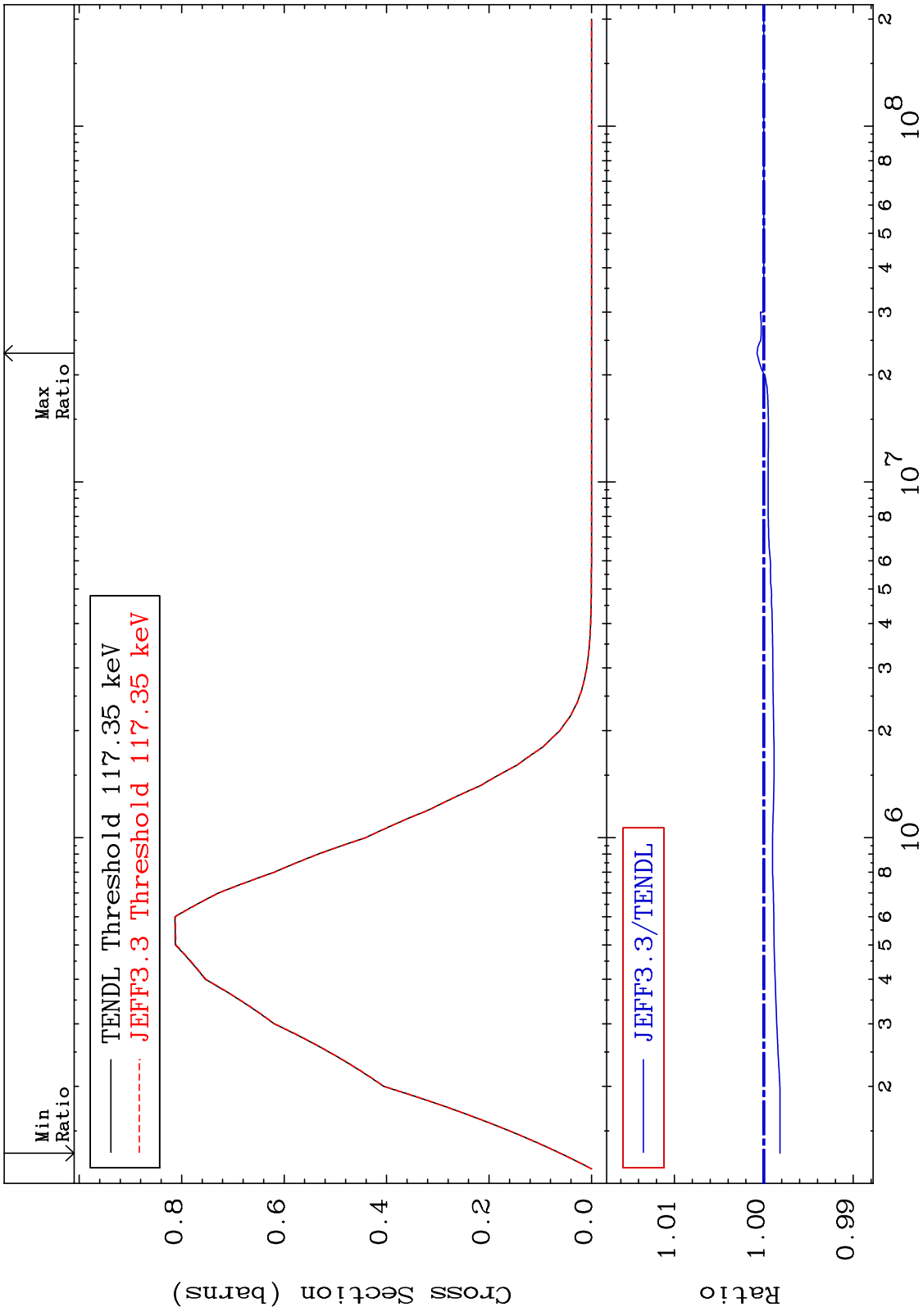
Incident Energy (eV)

69-Tm-171

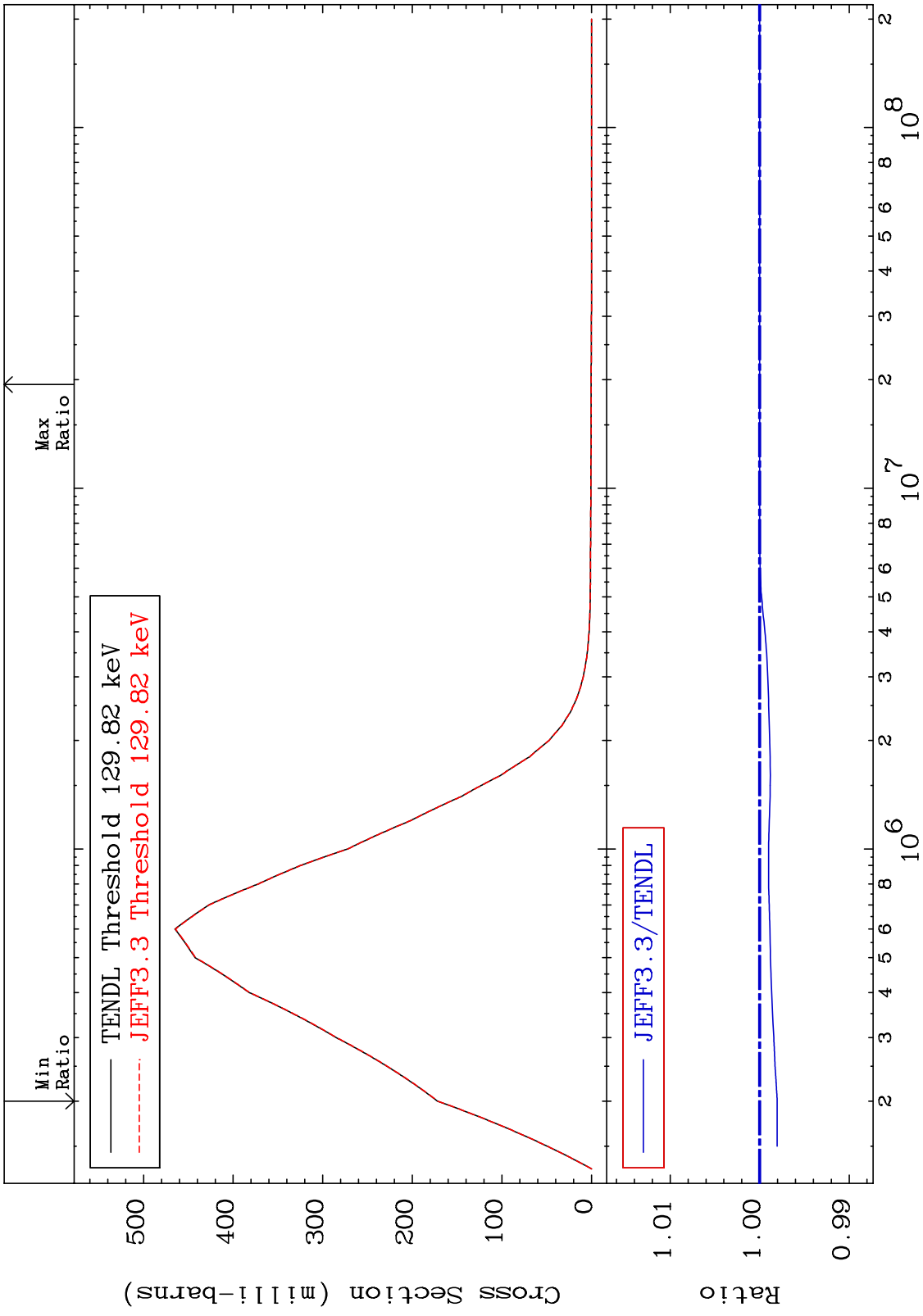
MAT 6931 MT= 51 (n,n') Level Cross Section 69-Tm-171
 -0.147 To 0.076 %



MAT 6931 MT= 52 (n,n') Level Cross Section 69-Tm-171 -0.179 To 0.076 %



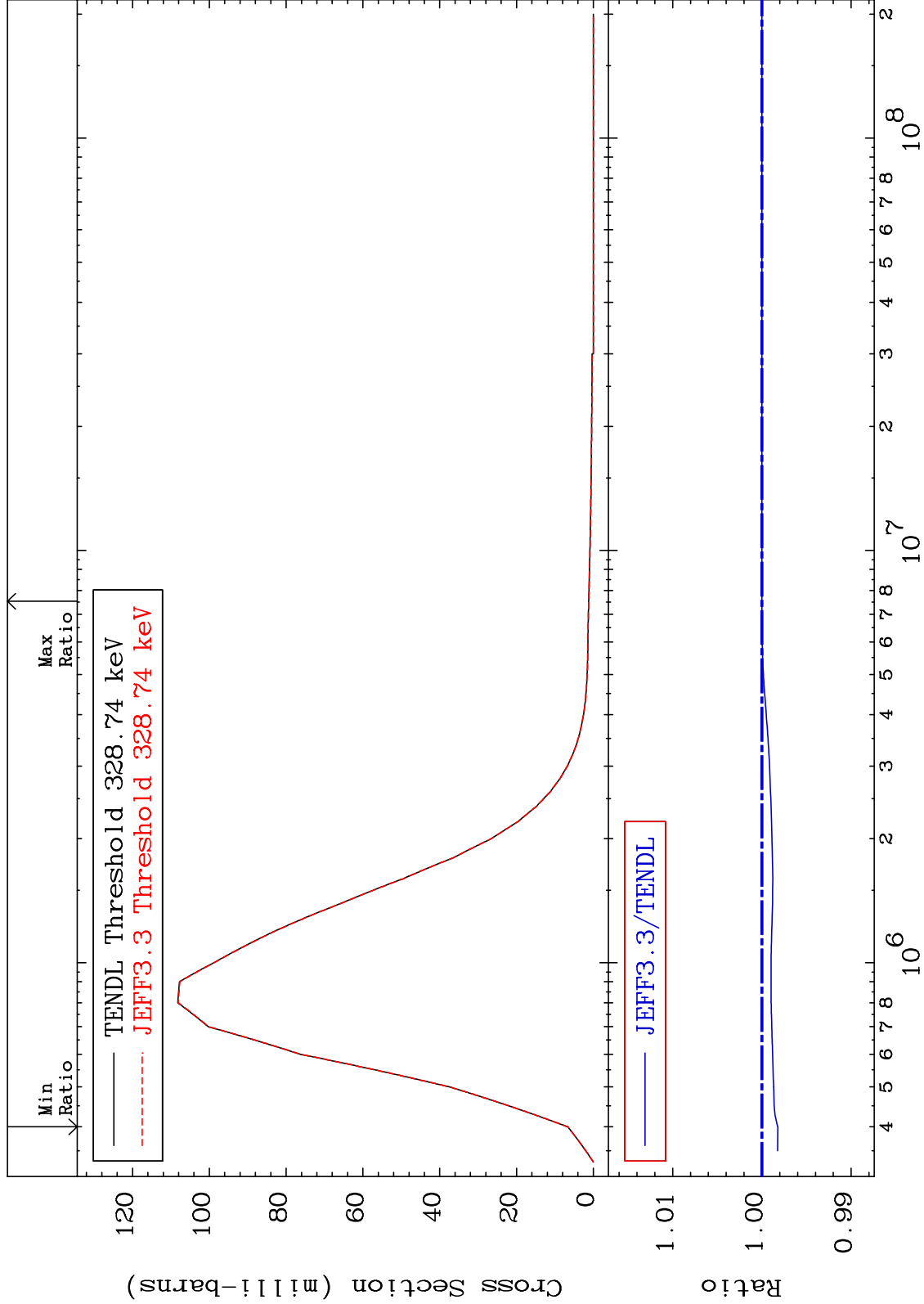
MAT 6931 MT= 53 (n,n') Level Cross Section 69-Tm-171
 -0.196 To 0.000 %



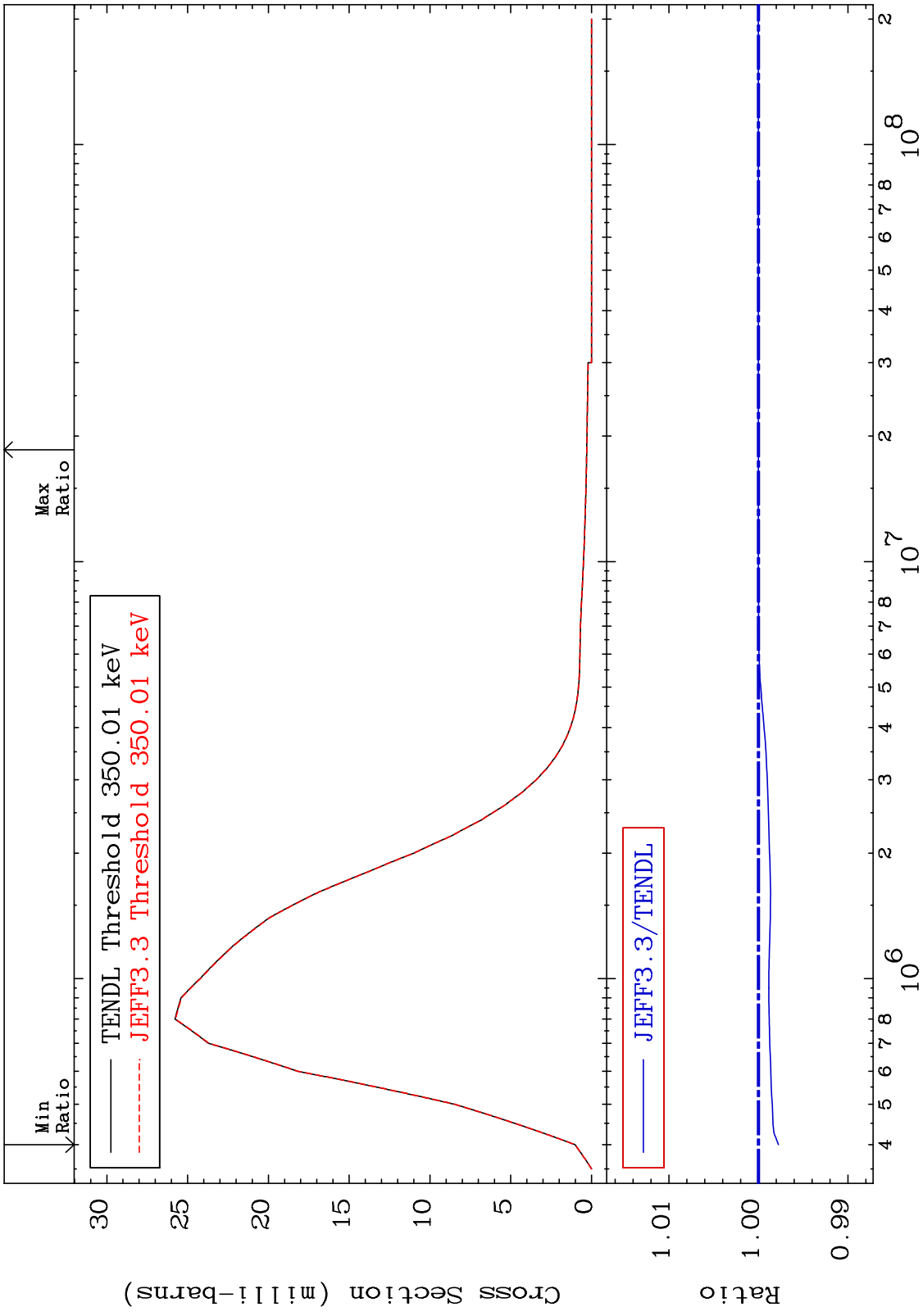
MAT 6931

MT= 54 (n,n') Level
Cross Section

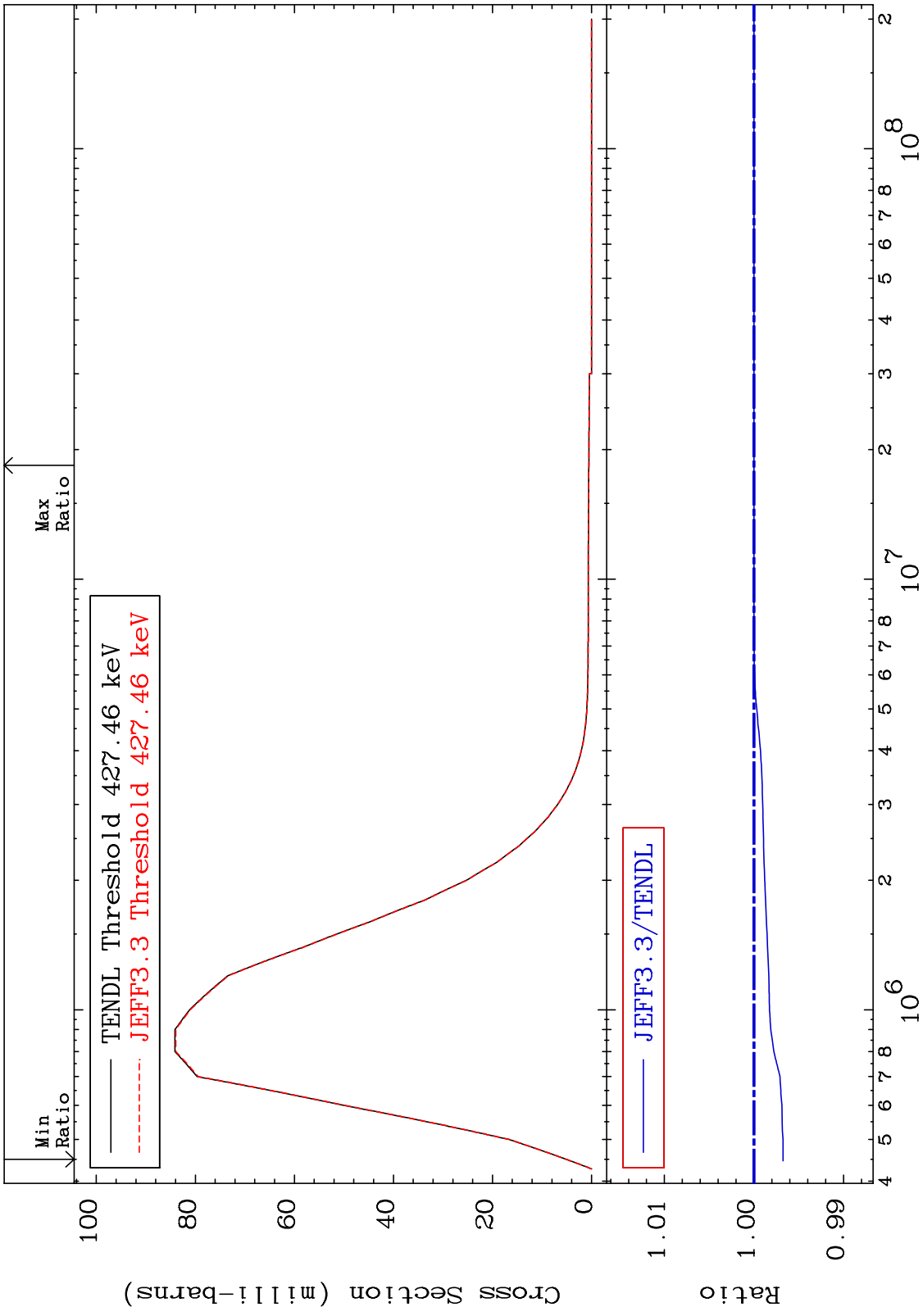
69-Tm-171
-0.177 To 0.000 %



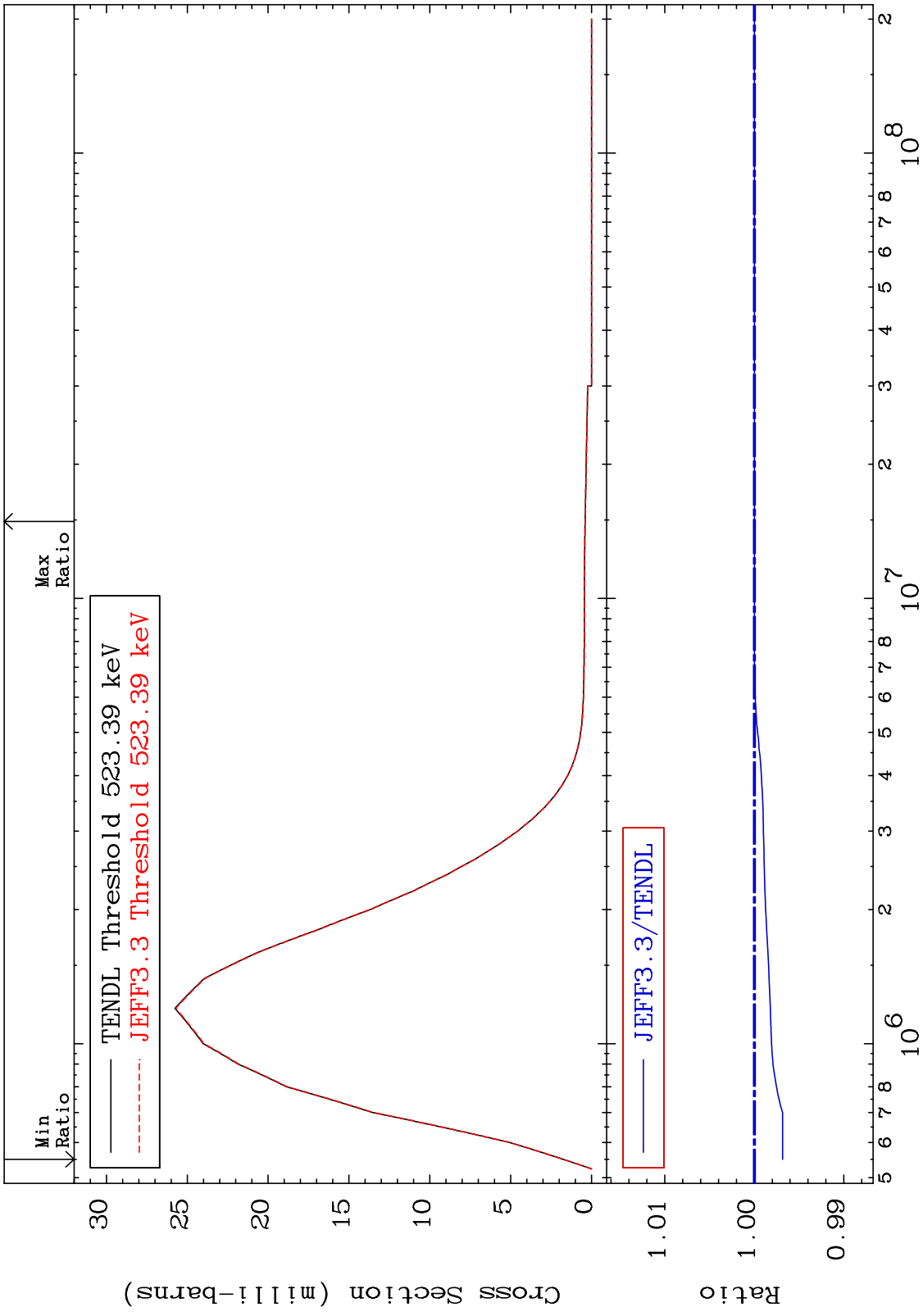
MAT 6931 MT= 55 (n,n') Level Cross Section 69-Tm-171
 -0.224 To 0.000 %



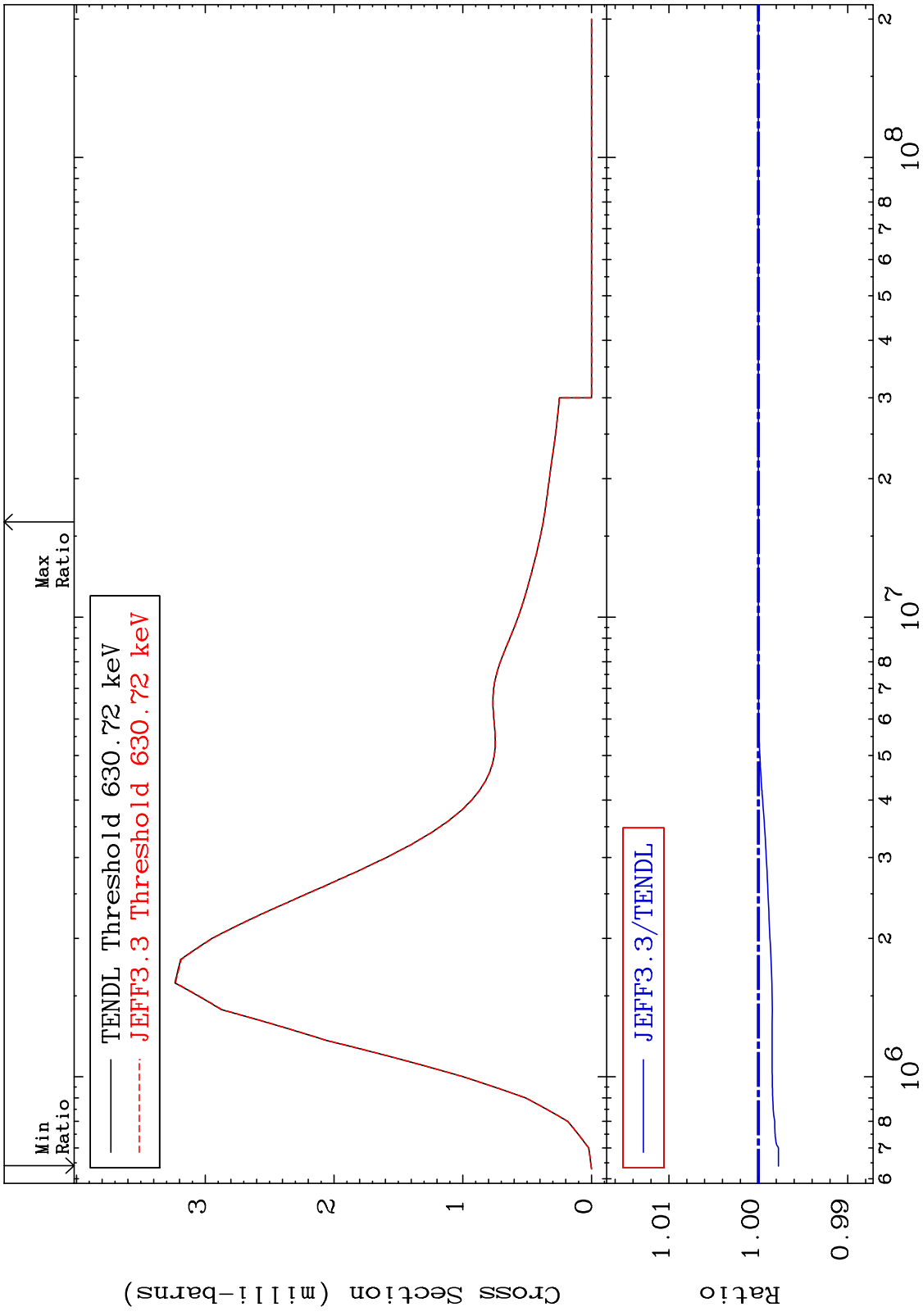
MAT 6931 MT= 56 (n,n') Level Cross Section 69-Tm-171
 -0.324 To 0.000 %



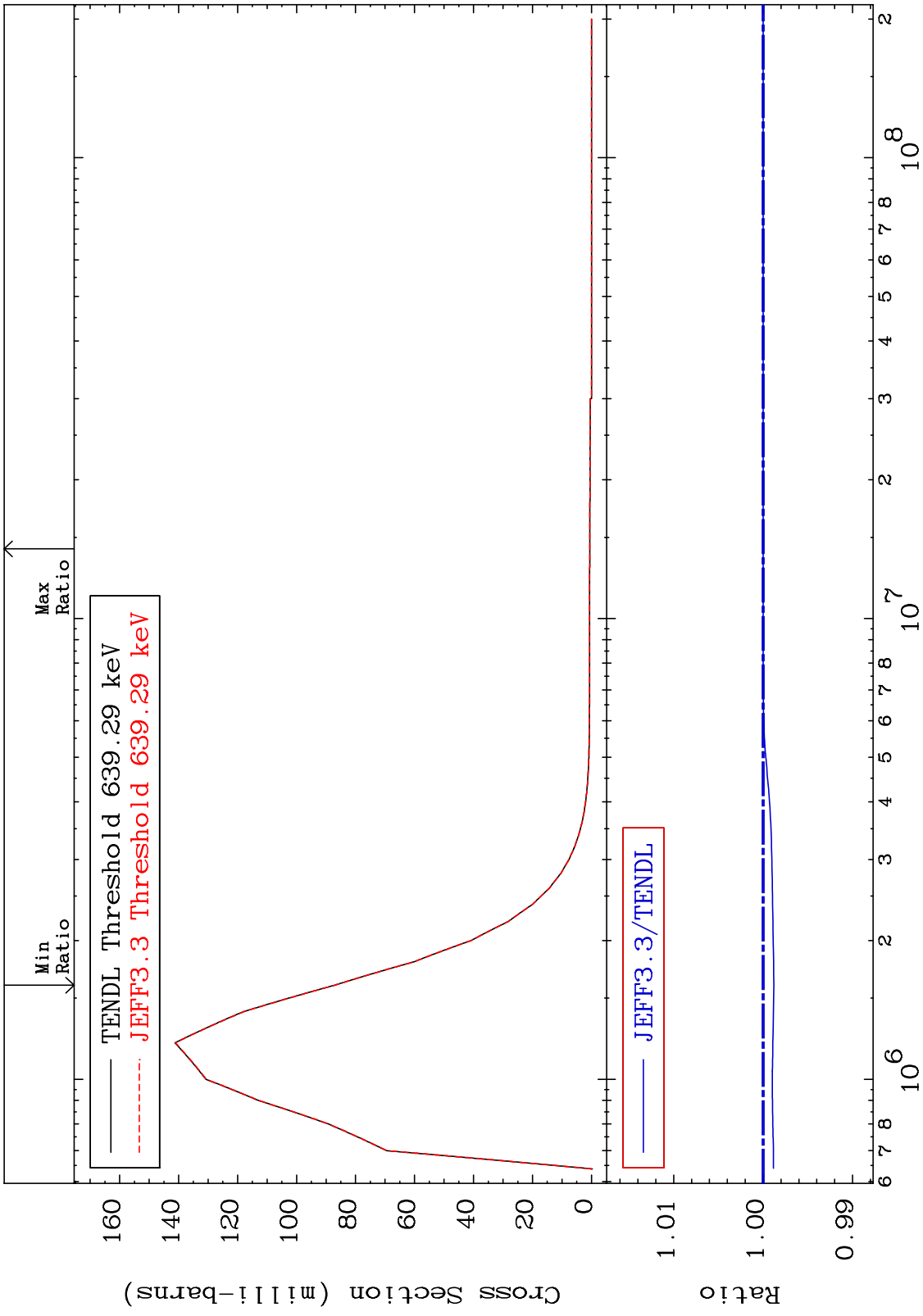
MAT 6931 MT= 57 (n,n') Level Cross Section 69-Tm-171
 -0.316 To 0.000 %



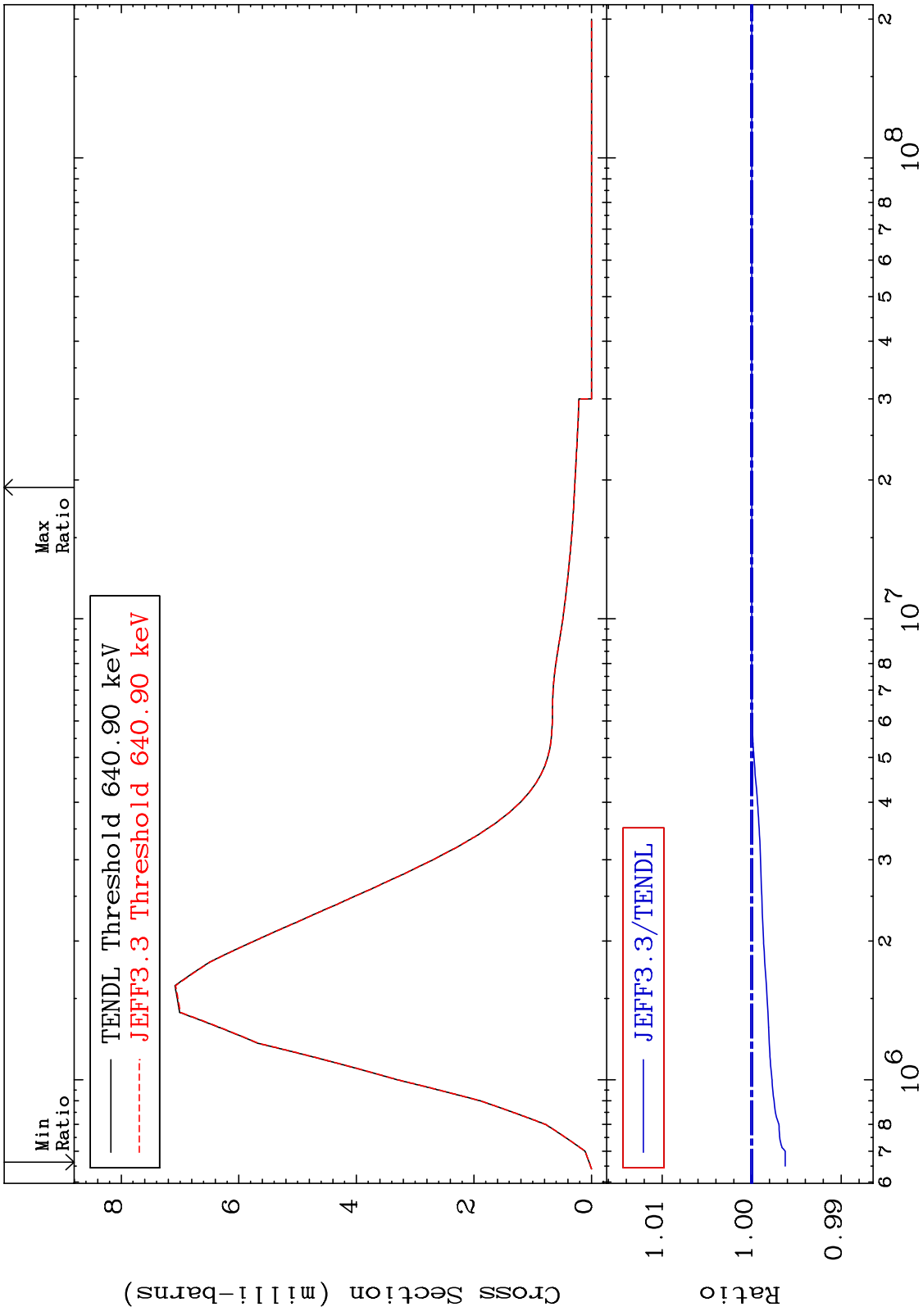
MAT 6931 MT= 58 (n,n') Level Cross Section 69-Tm-171 -0.226 To 0.000 %



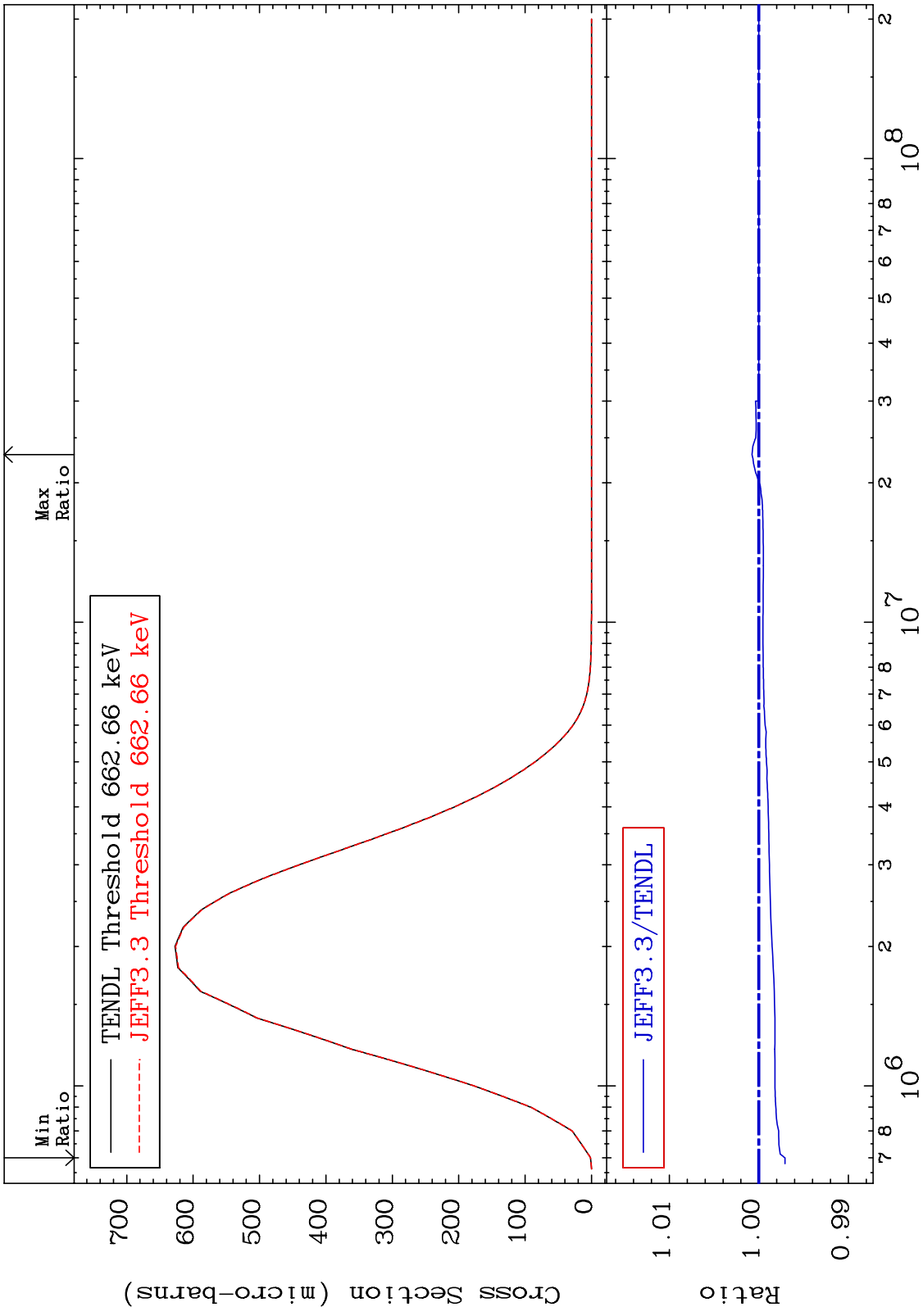
MAT 6931 MT= 59 (n,n') Level Cross Section -0.119 To 0.000 % 69-Tm-171



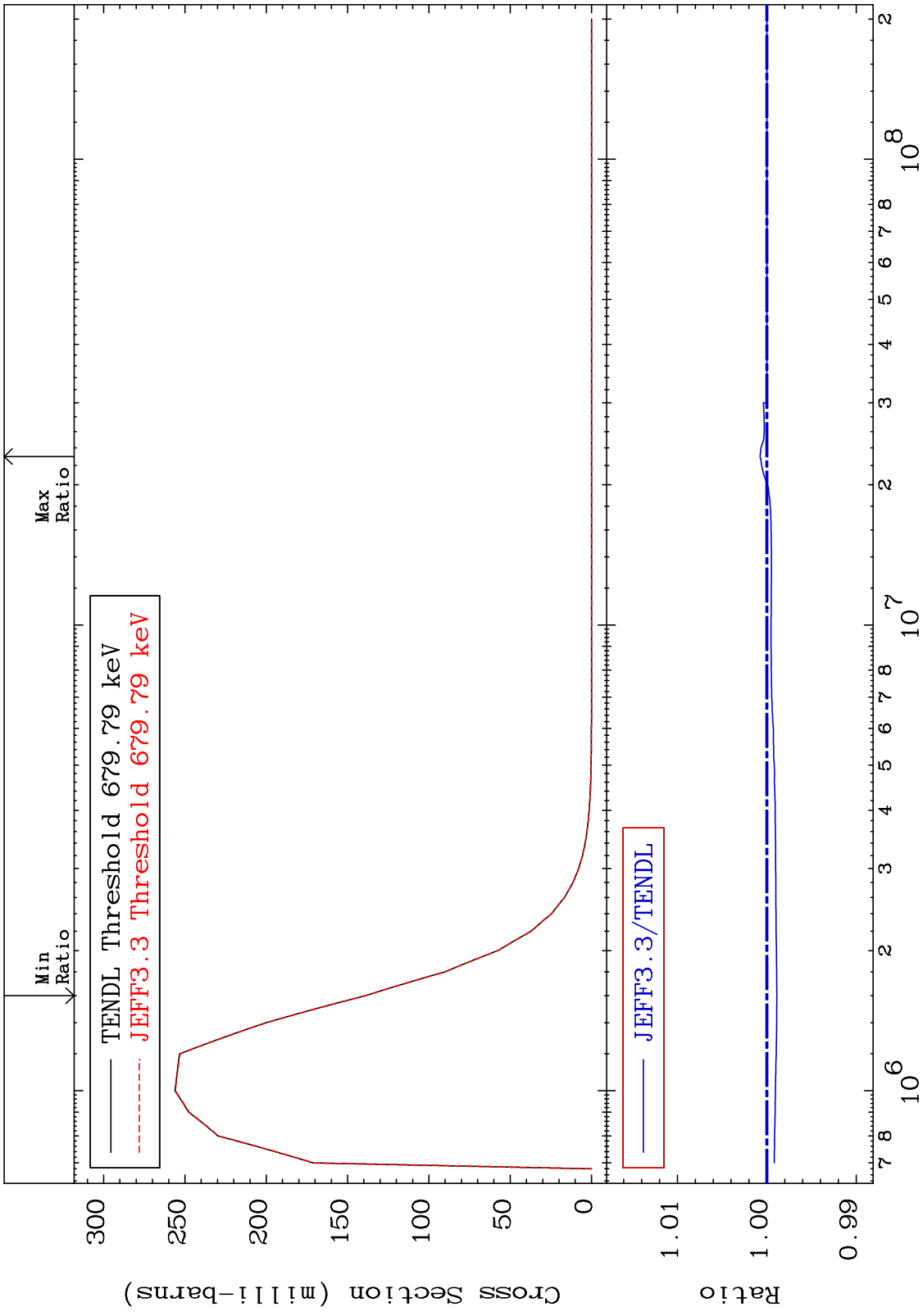
MAT 6931 MT= 60 (n,n') Level 69-Tm-171
 Cross Section -0.374 To 0.000 %



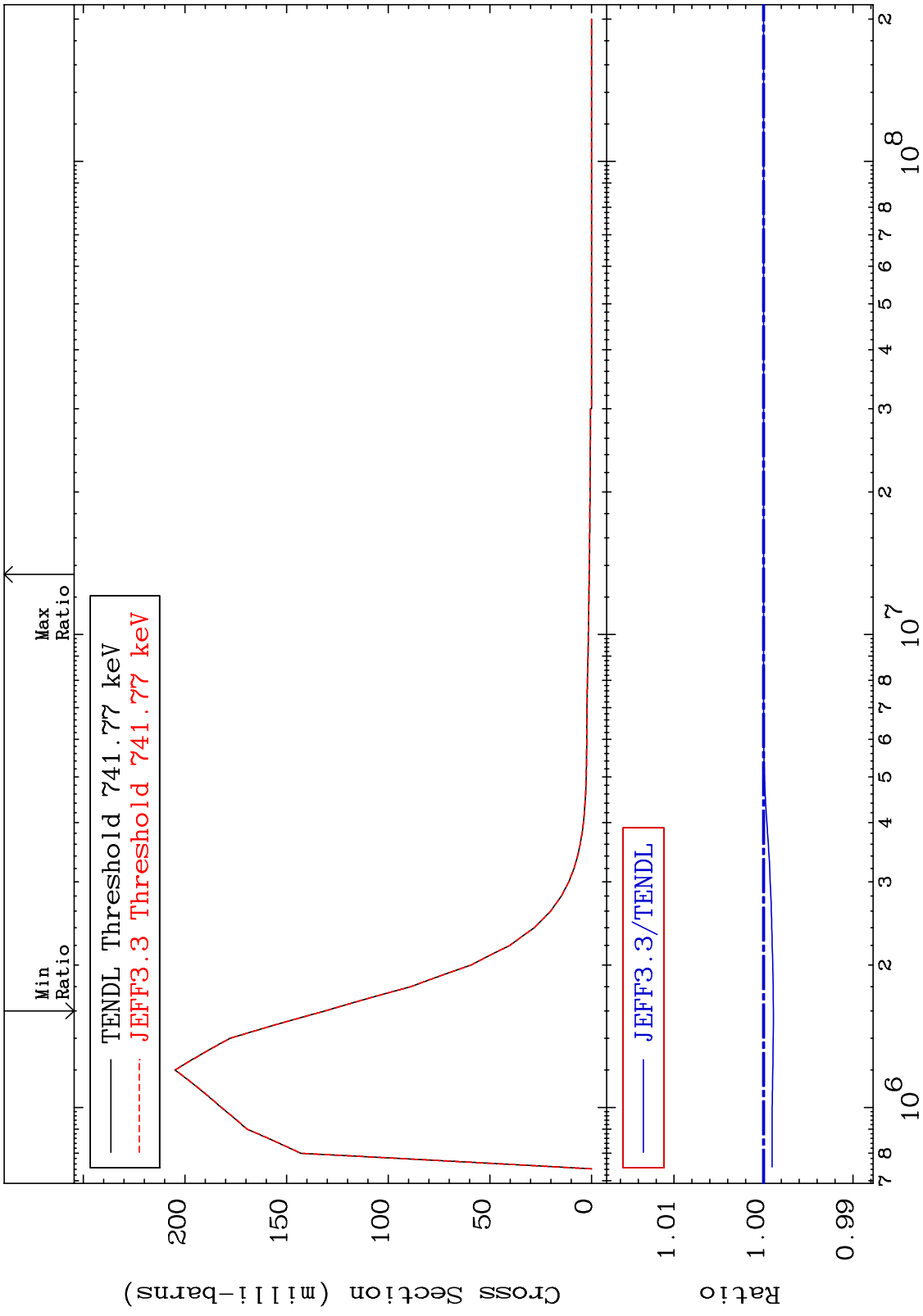
MAT 6931 MT= 61 (n,n') Level Cross Section 69-Tm-171 -0.291 To 0.077 %



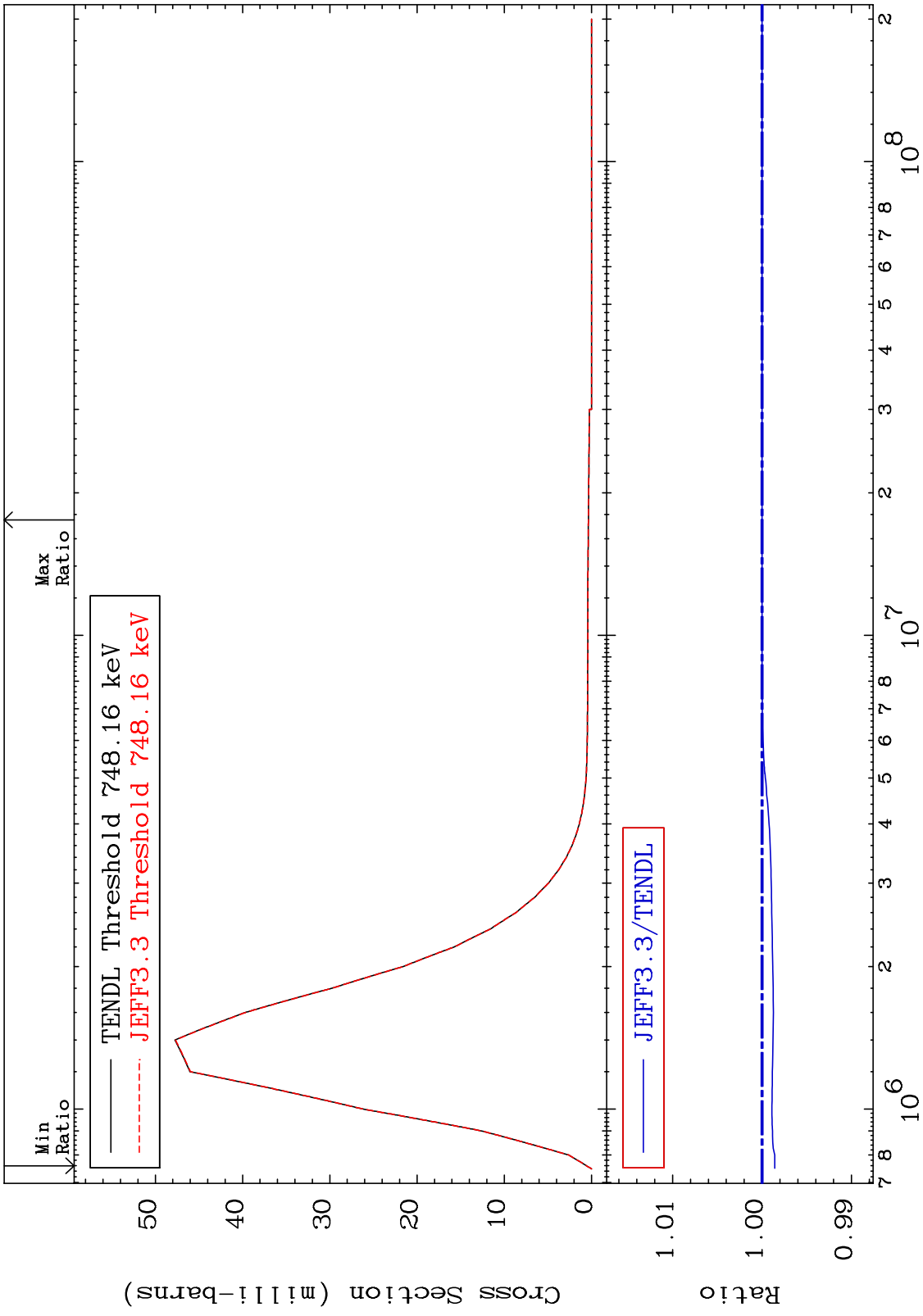
MAT 6931 MT= 62 (n,n') Level Cross Section 69-Tm-171
 -0.112 To 0.076 %



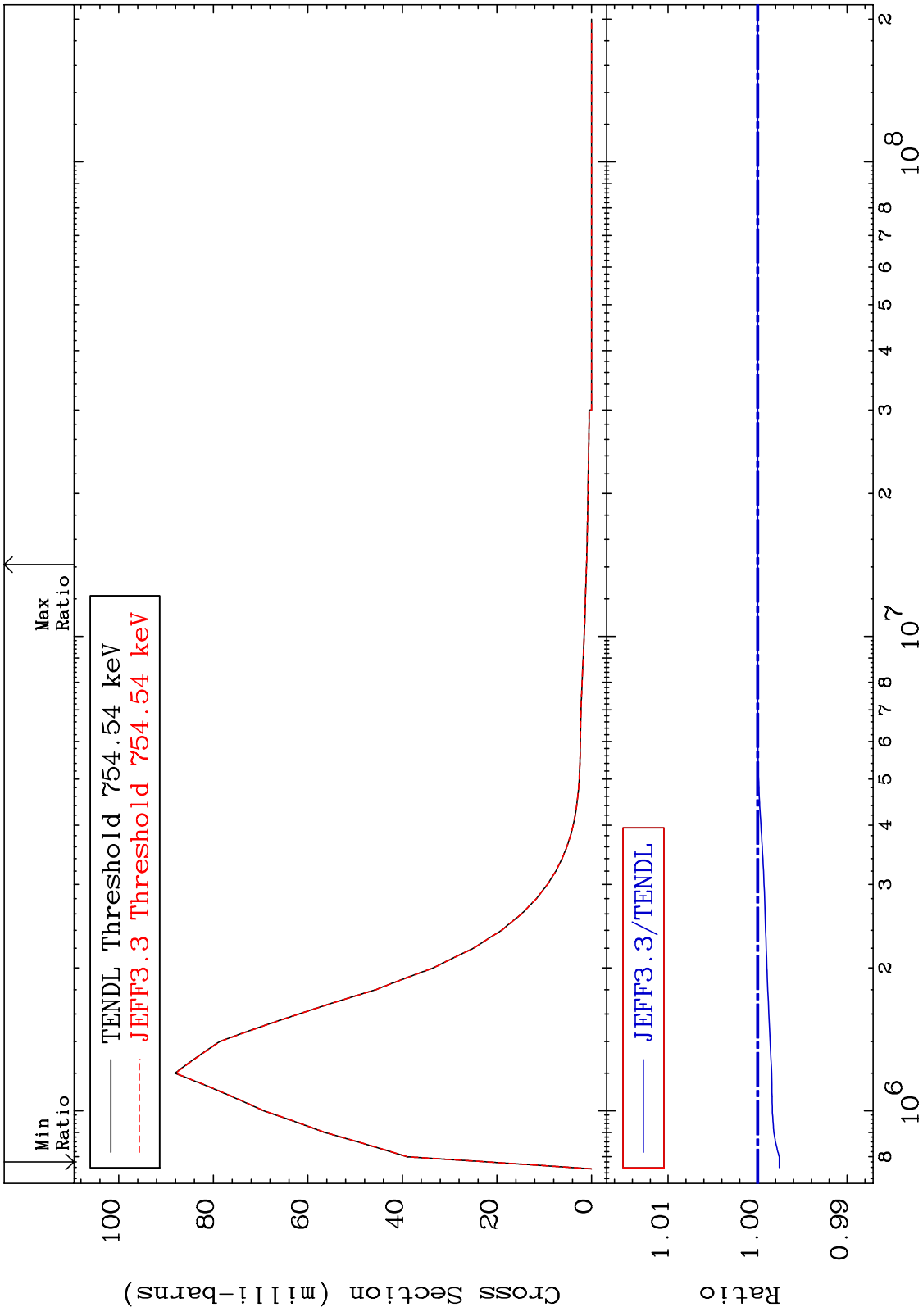
MAT 6931 MT= 63 (n,n') Level Cross Section 69-Tm-171
 -0.111 To 0.000 %



MAT 6931 MT= 64 (n,n') Level Cross Section 69-Tm-171
 -0.143 To 0.000 %



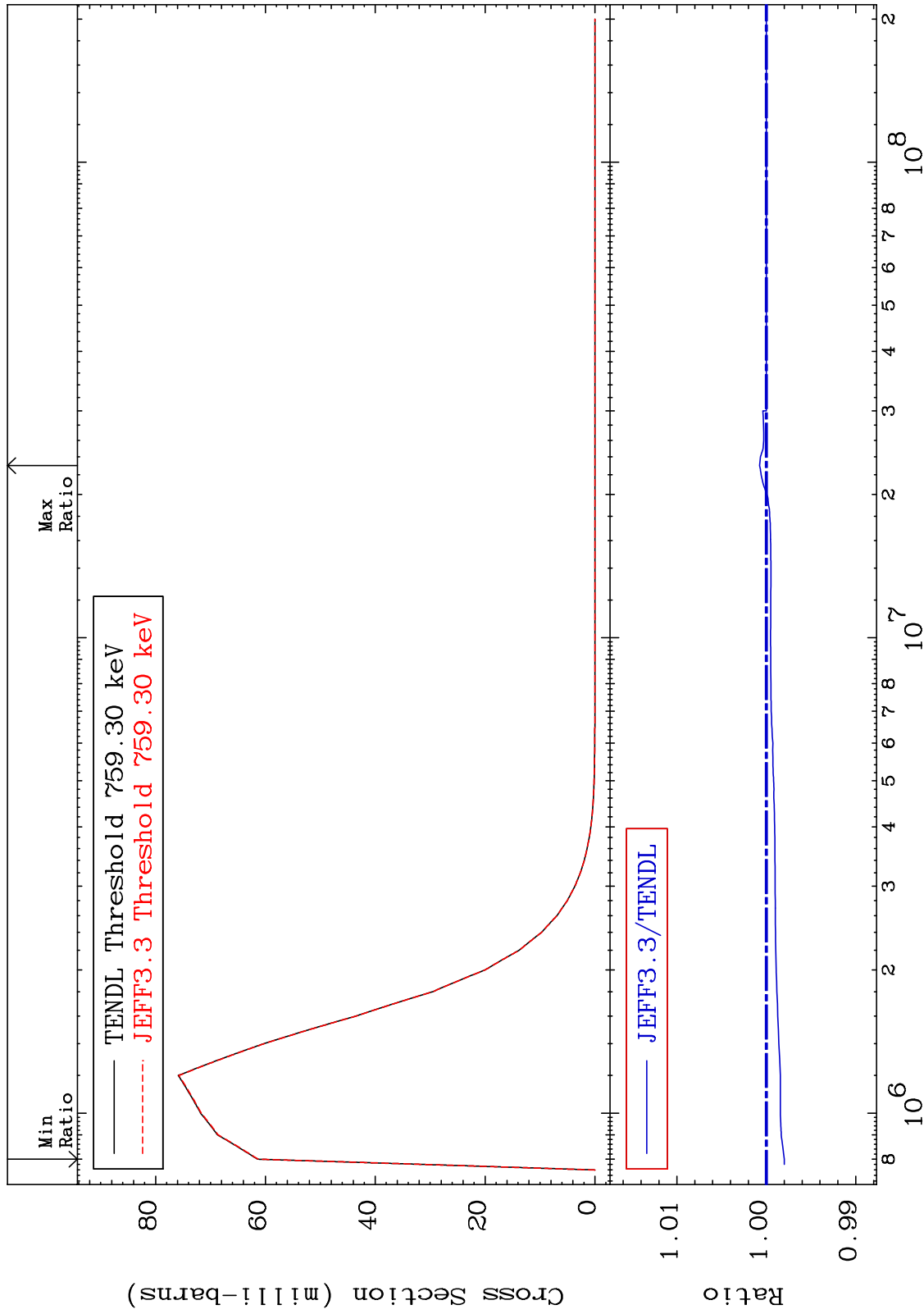
MAT 6931 MT= 65 (n,n') Level Cross Section 69-Tm-171
 -0.241 To 0.000 %



MAT 6931

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

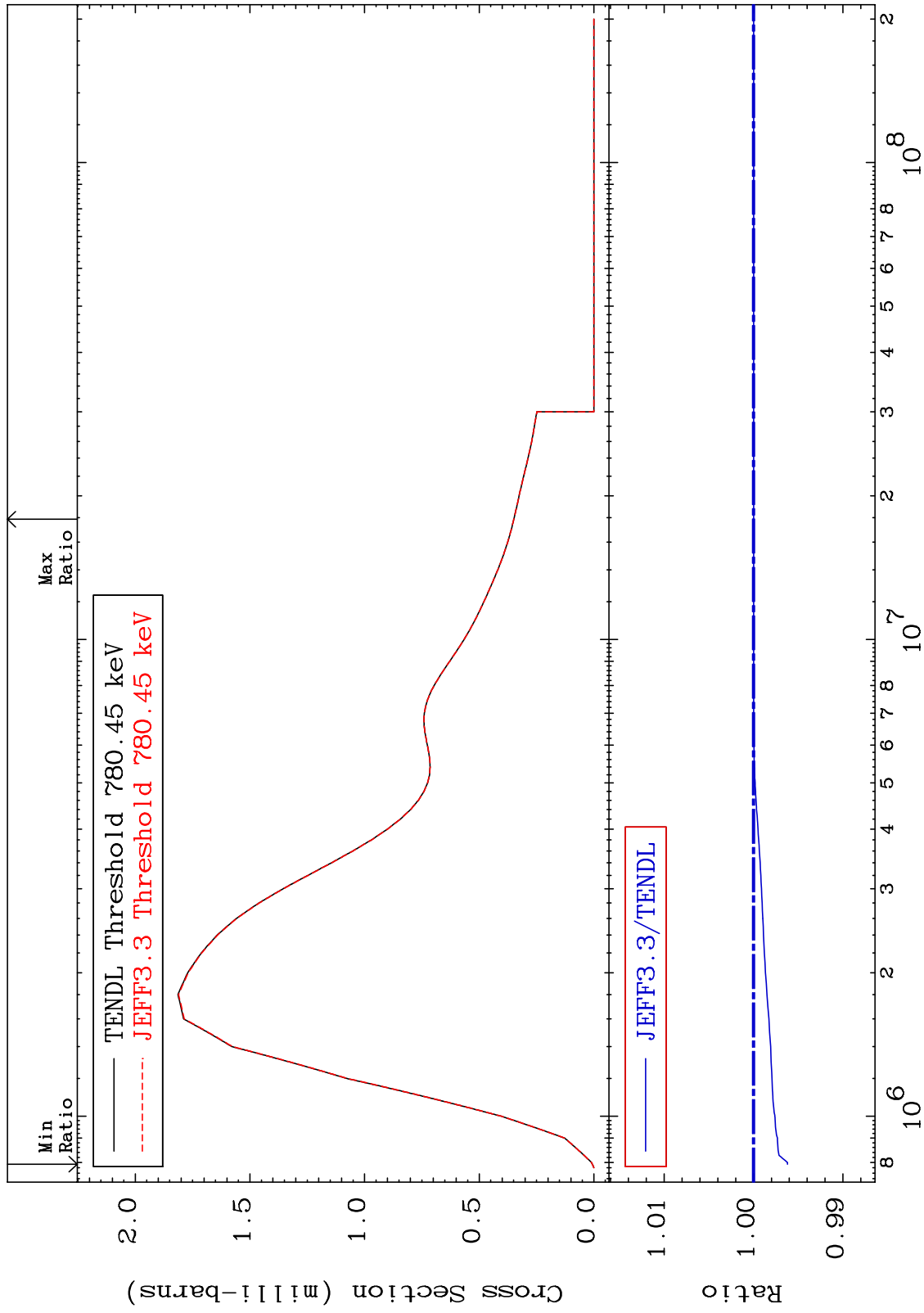
69-Tm-171
-0.200 To 0.076 %



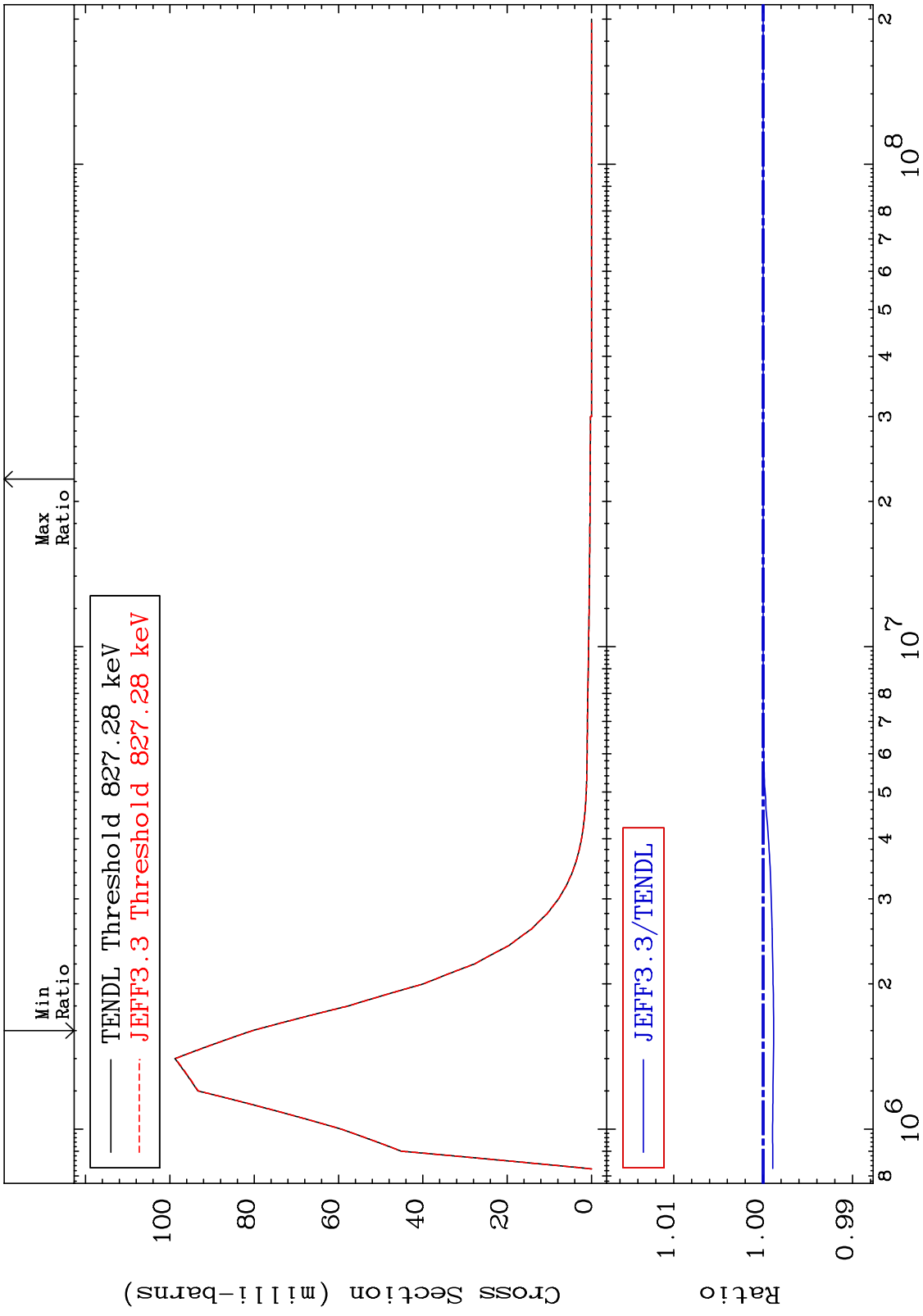
MAT 6931

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

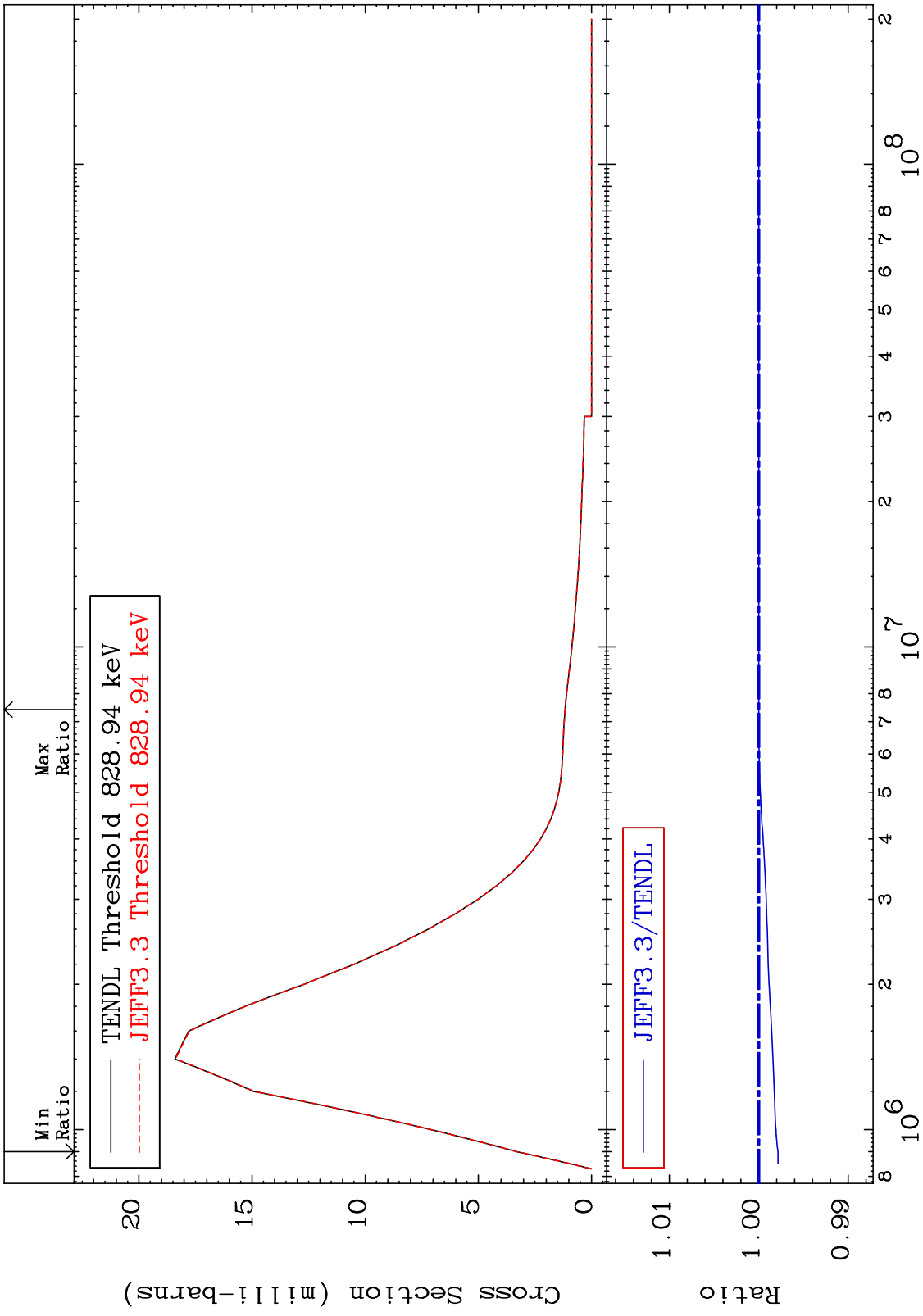
69-Tm-171
-0.379 To 0.000 %



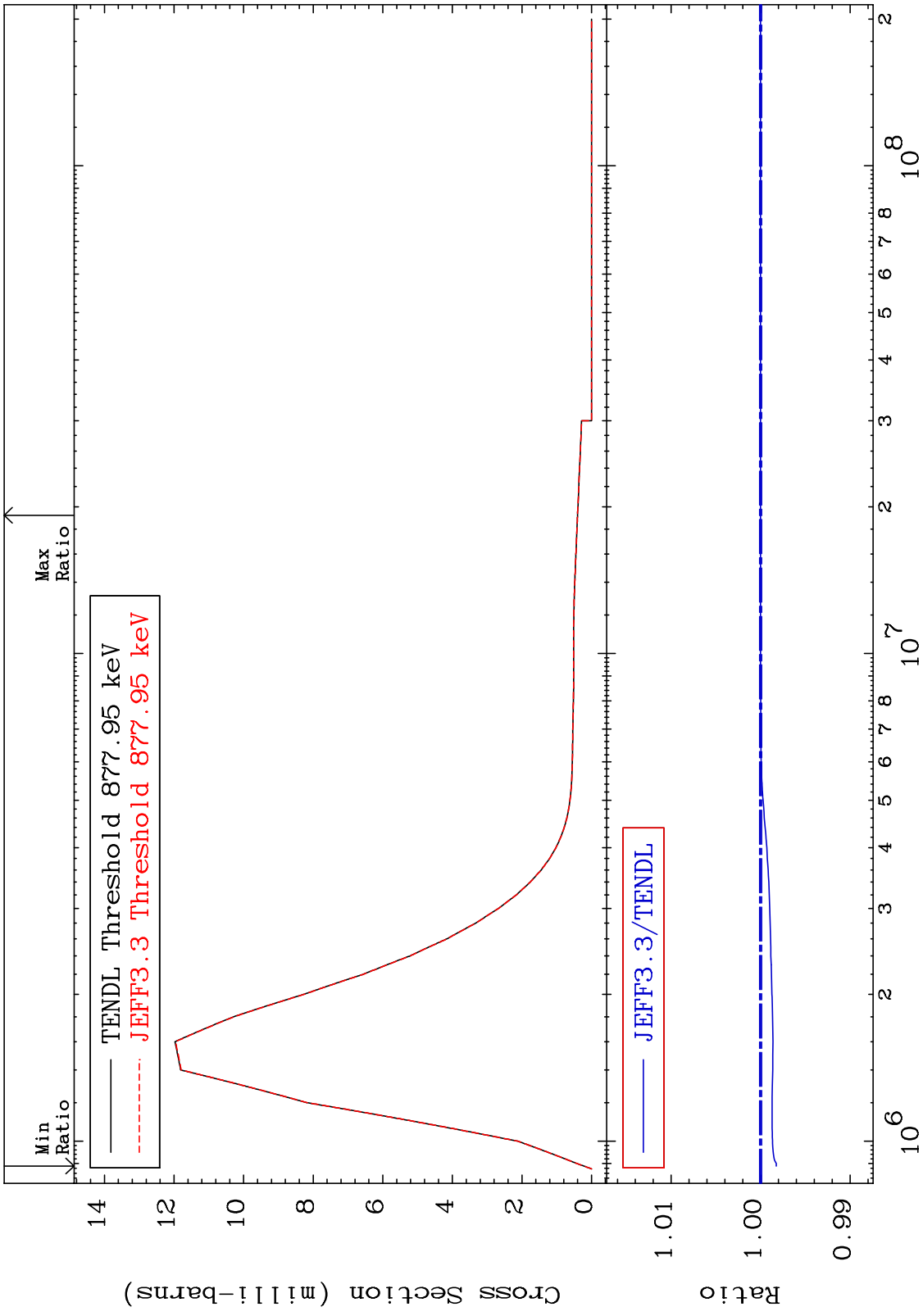
MAT 6931 MT= 68 (n,n') Level Cross Section 69-Tm-171 -0.118 To 0.000 %



MAT 6931 MT= 69 (n,n') Level Cross Section 69-Tm-171 -0.216 To 0.000 %

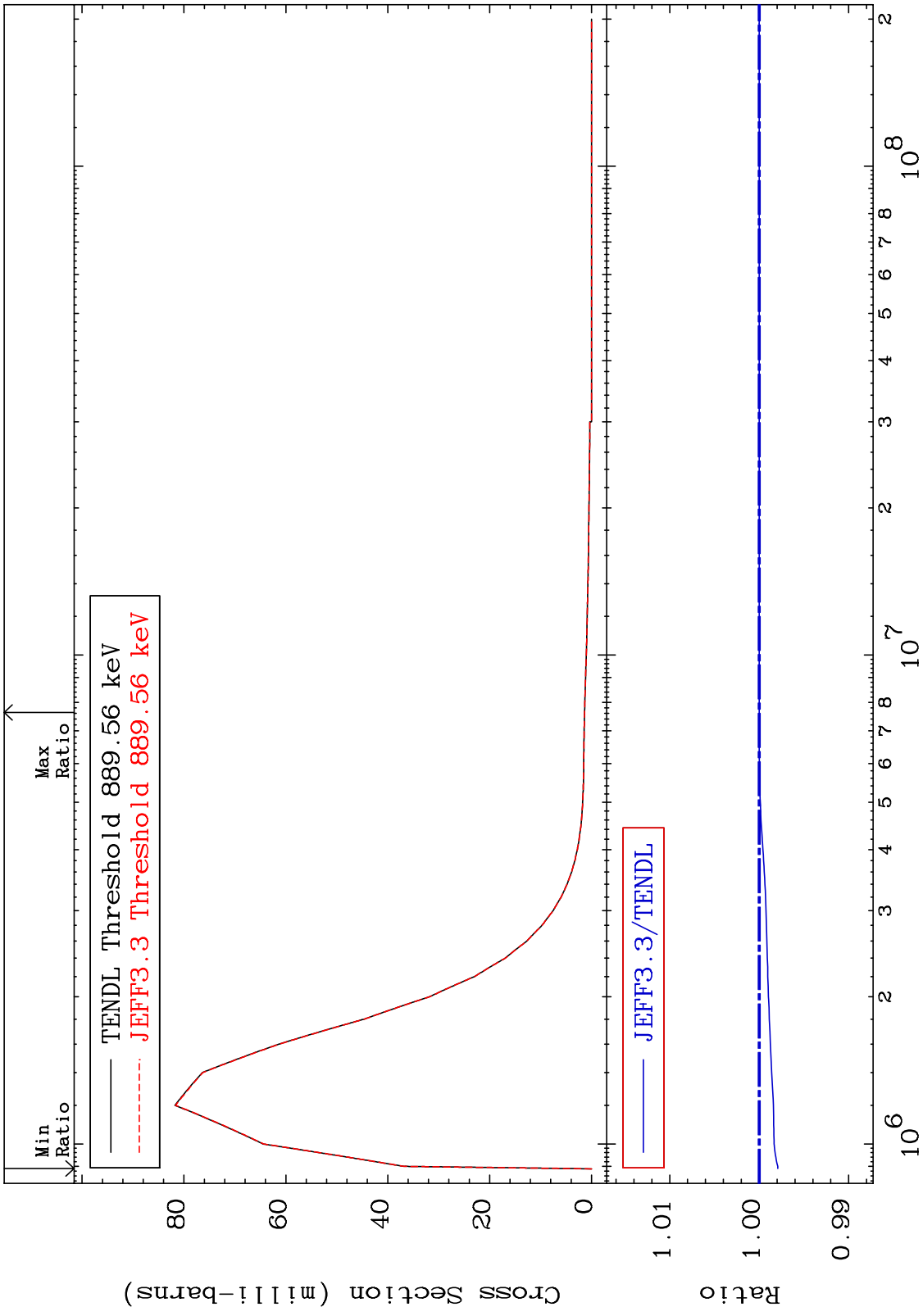


MAT 6931 MT= 70 (n,n') Level Cross Section 69-Tm-171 -0.175 To 0.000 %



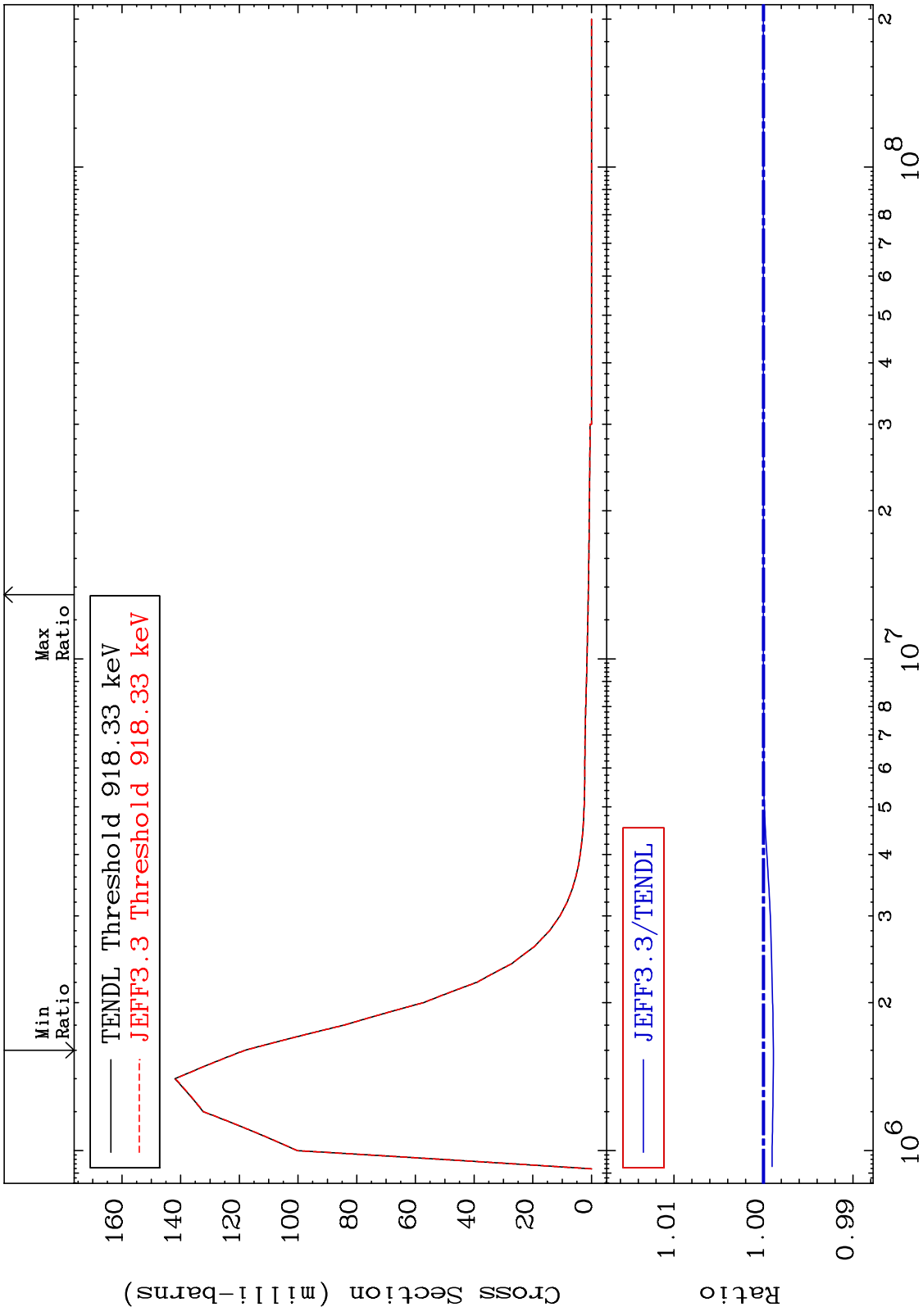
39 Incident Energy (eV) 69-Tm-171

MAT 6931 MT= 71 (n,n') Level Cross Section 69-Tm-171 -0.207 To 0.000 %

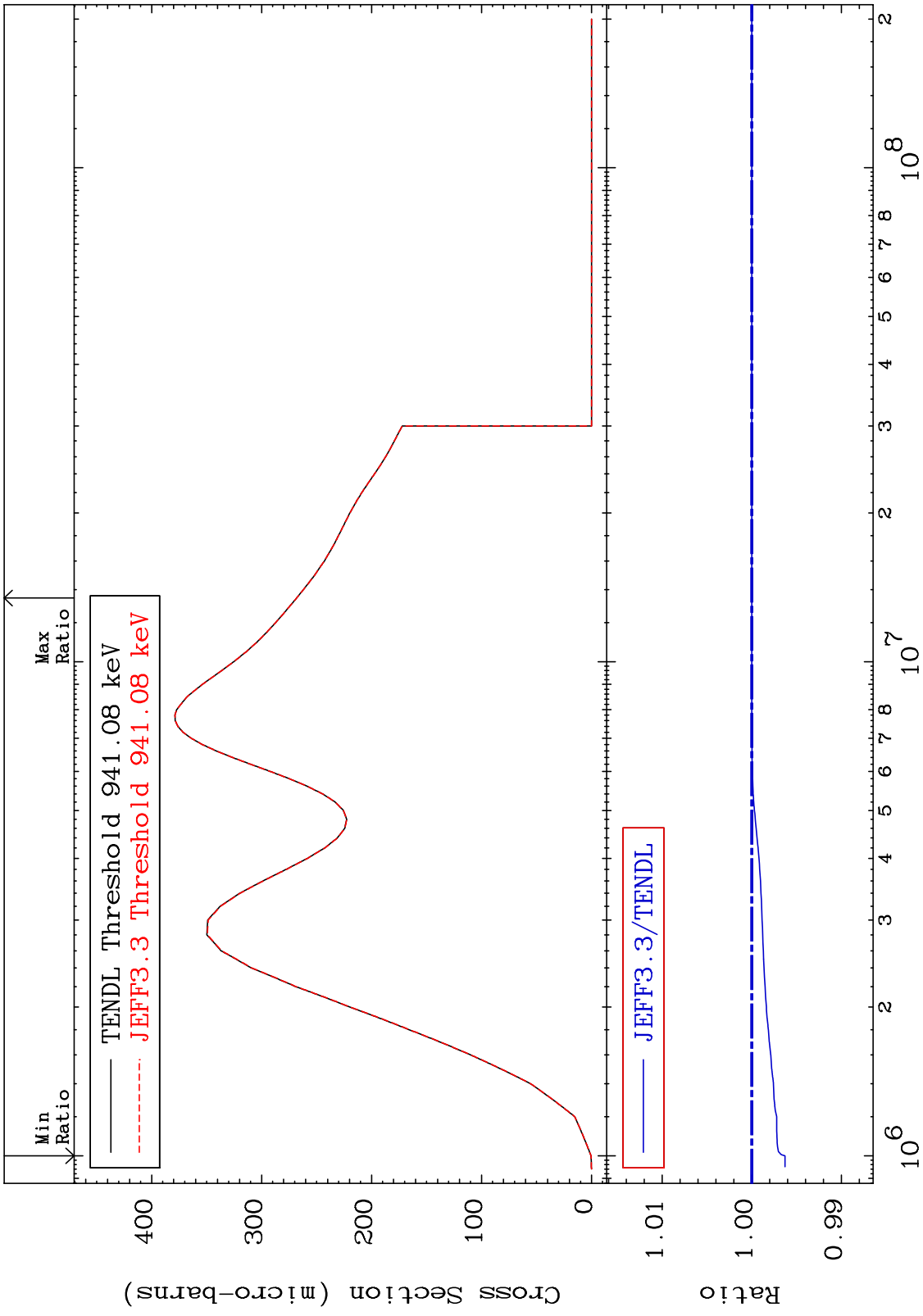


40 10⁶ 2 3 4 5 6 7 8 10⁷ 2 3 4 5 6 7 8 10⁸ 69-Tm-171

MAT 6931 MT= 72 (n,n') Level Cross Section 69-Tm-171 -0.112 To 0.000 %



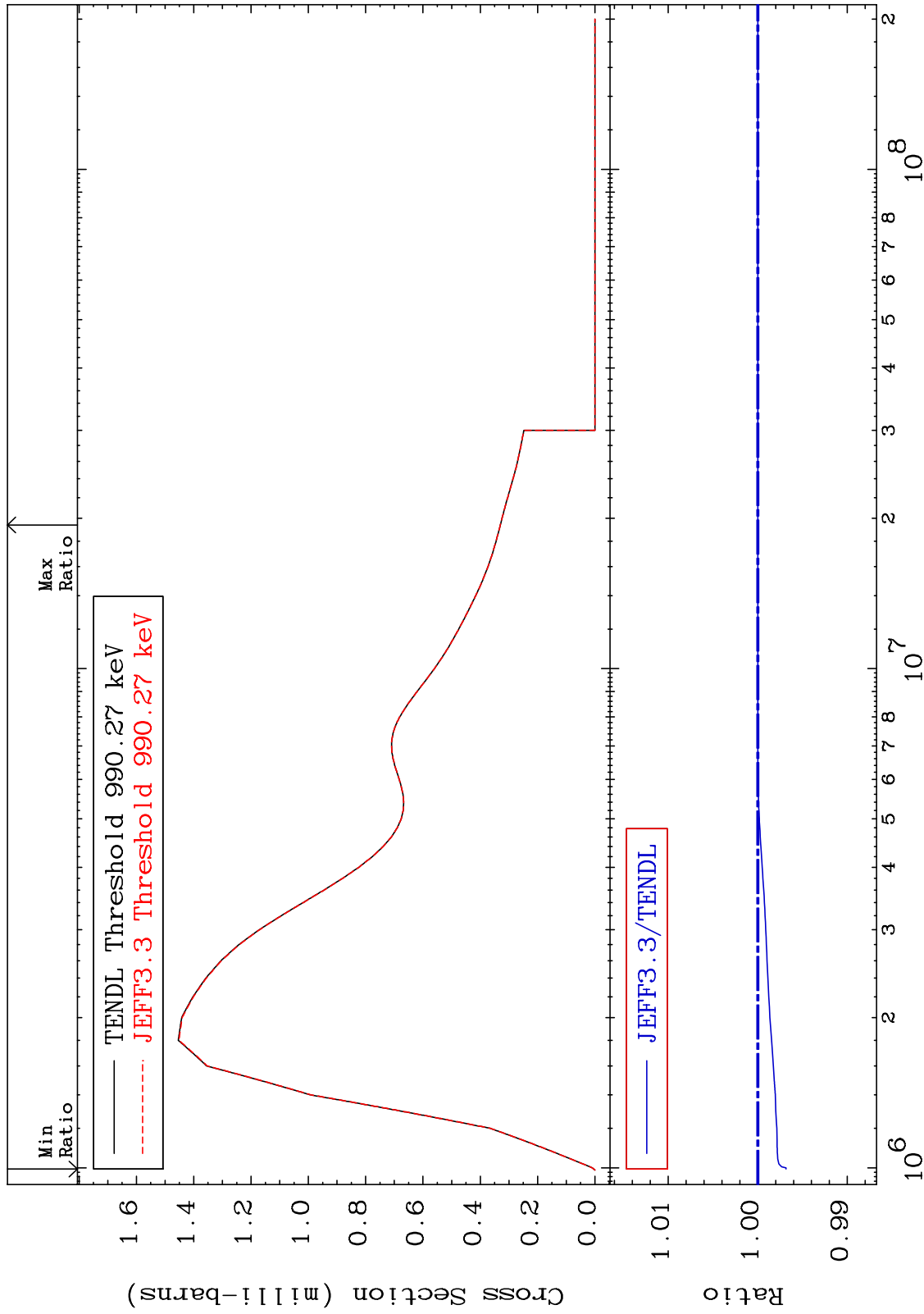
MAT 6931 MT= 73 (n,n') Level Cross Section 69-Tm-171 -0.372 To 0.000 %



MAT 6931

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

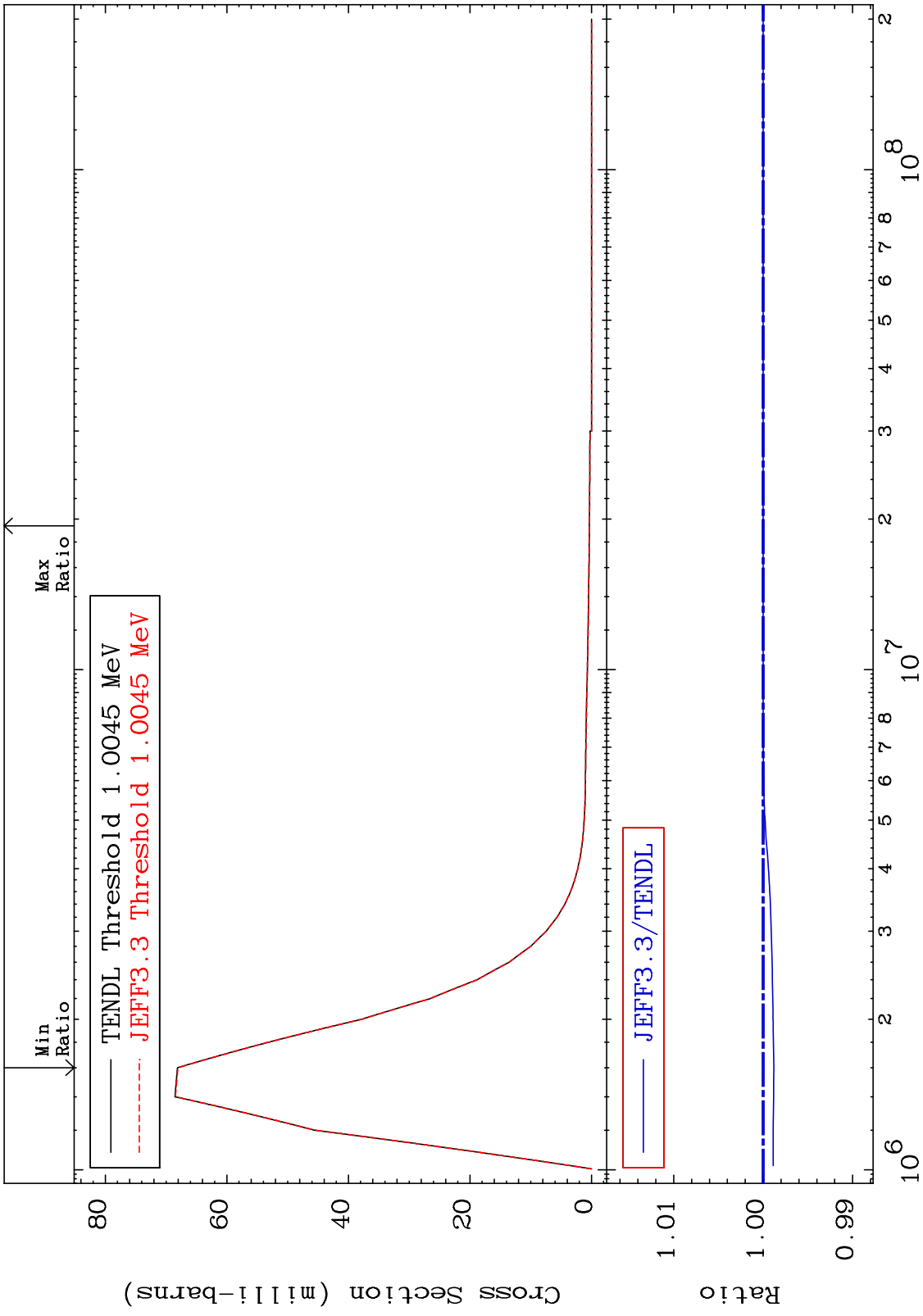
69-Tm-171
-0.315 To 0.000 %



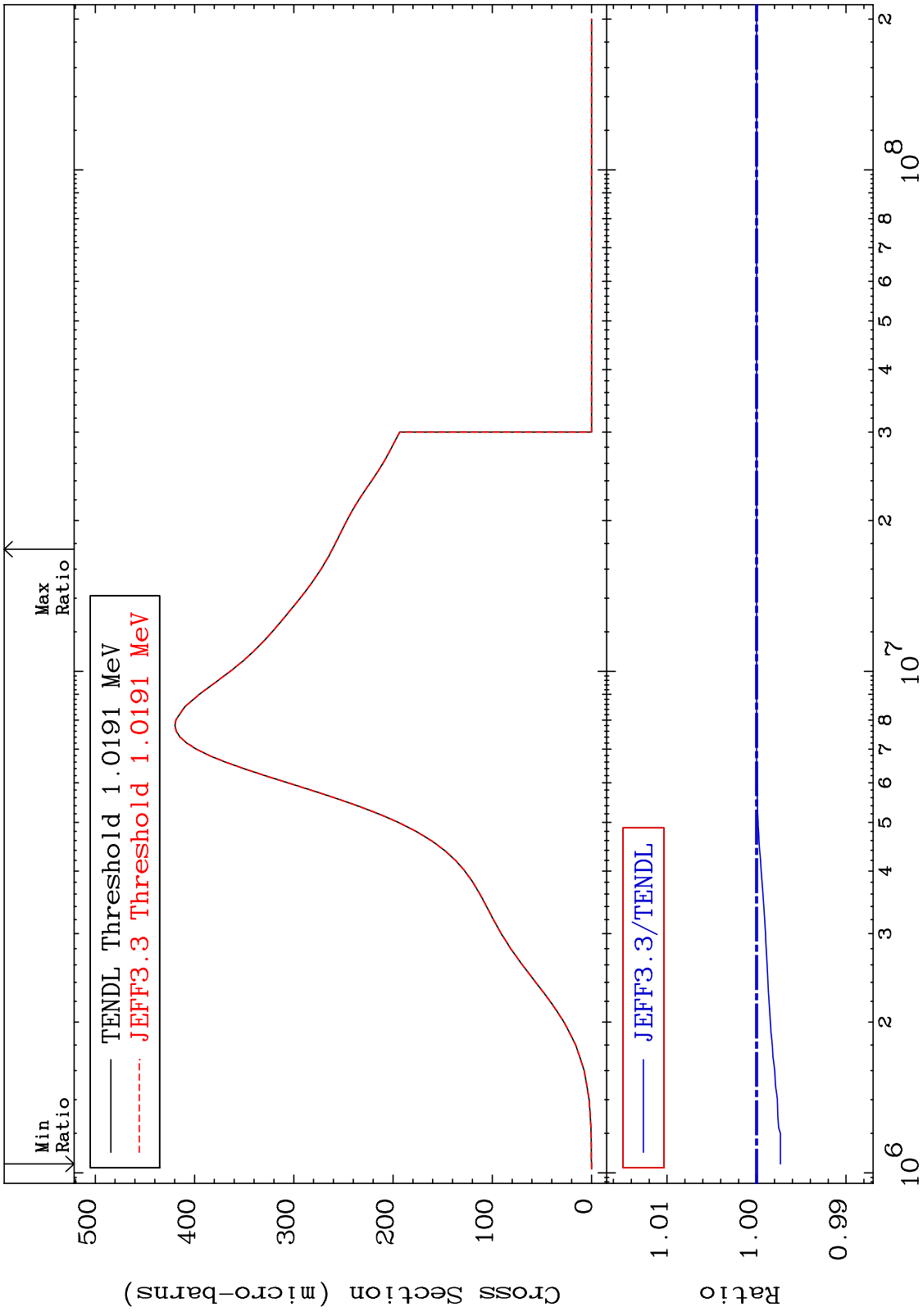
43

69-Tm-171

MAT 6931 MT= 75 (n,n') Level Cross Section 69-Tm-171
 -0.118 To 0.000 %



MAT 6931 MT= 76 (n,n') Level Cross Section 69-Tm-171 -0.265 To 0.000 %

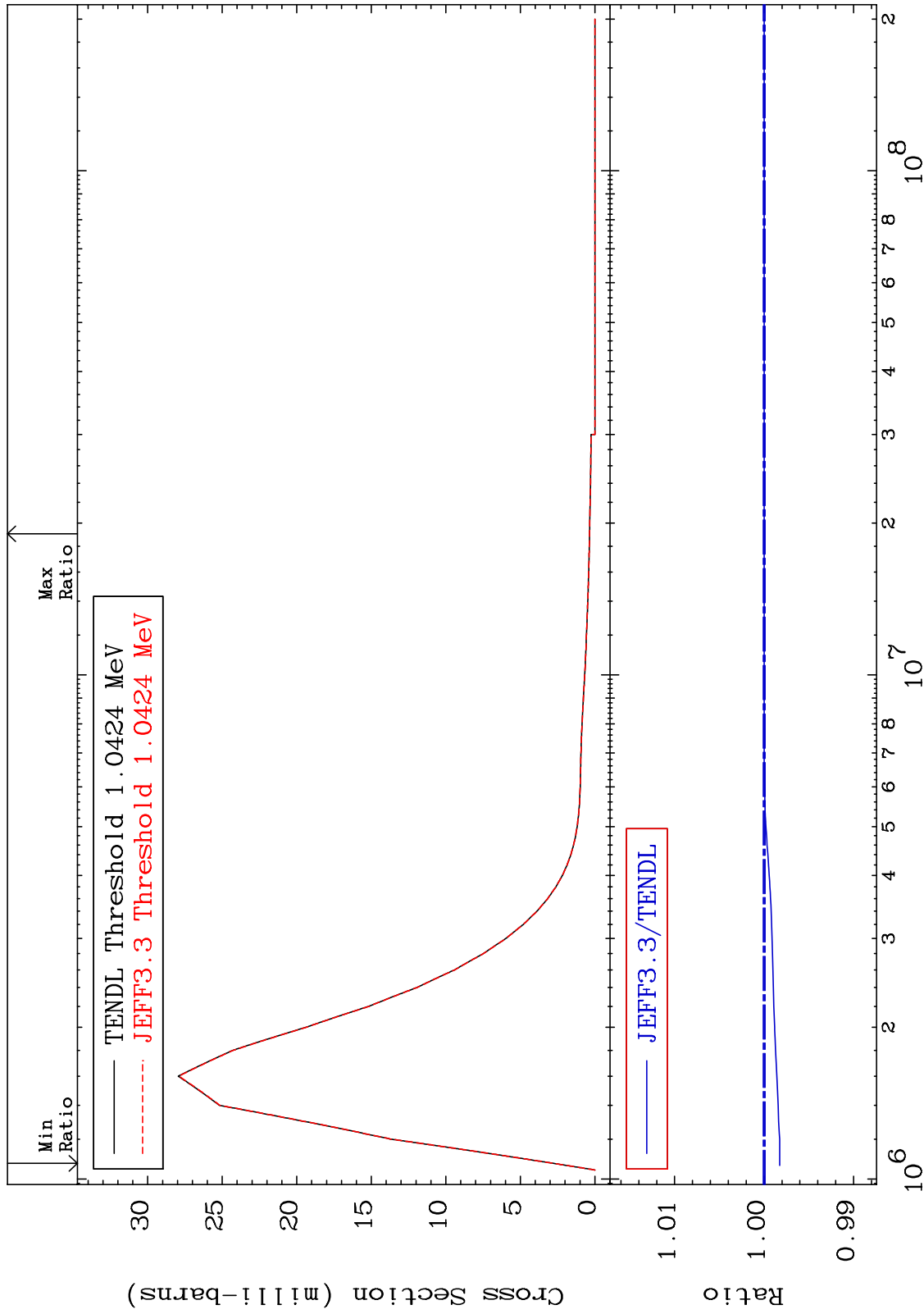


45 69-Tm-171

MAT 6931

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

69-Tm-171
-0.174 To 0.000 %

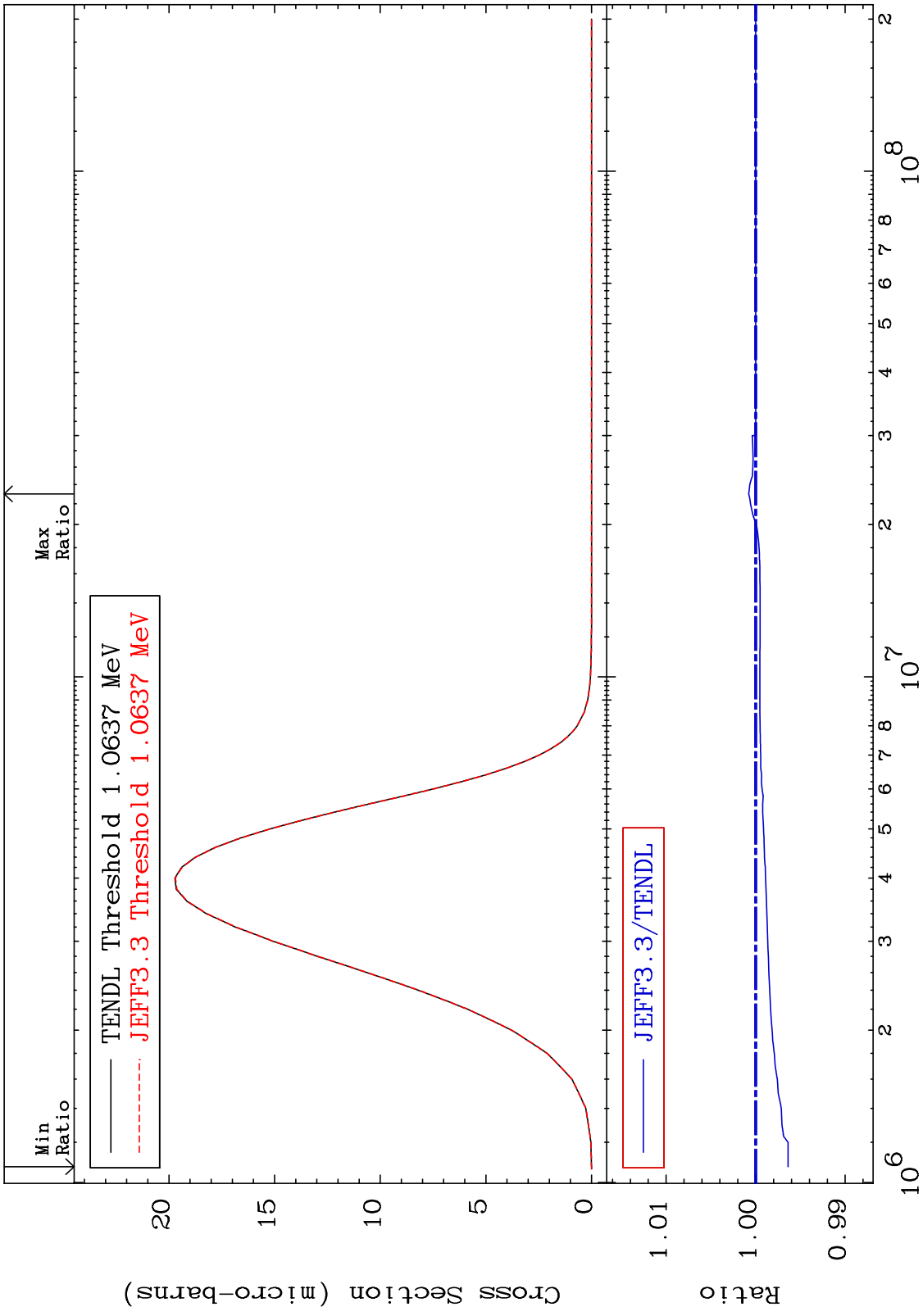


46

Incident Energy (eV)

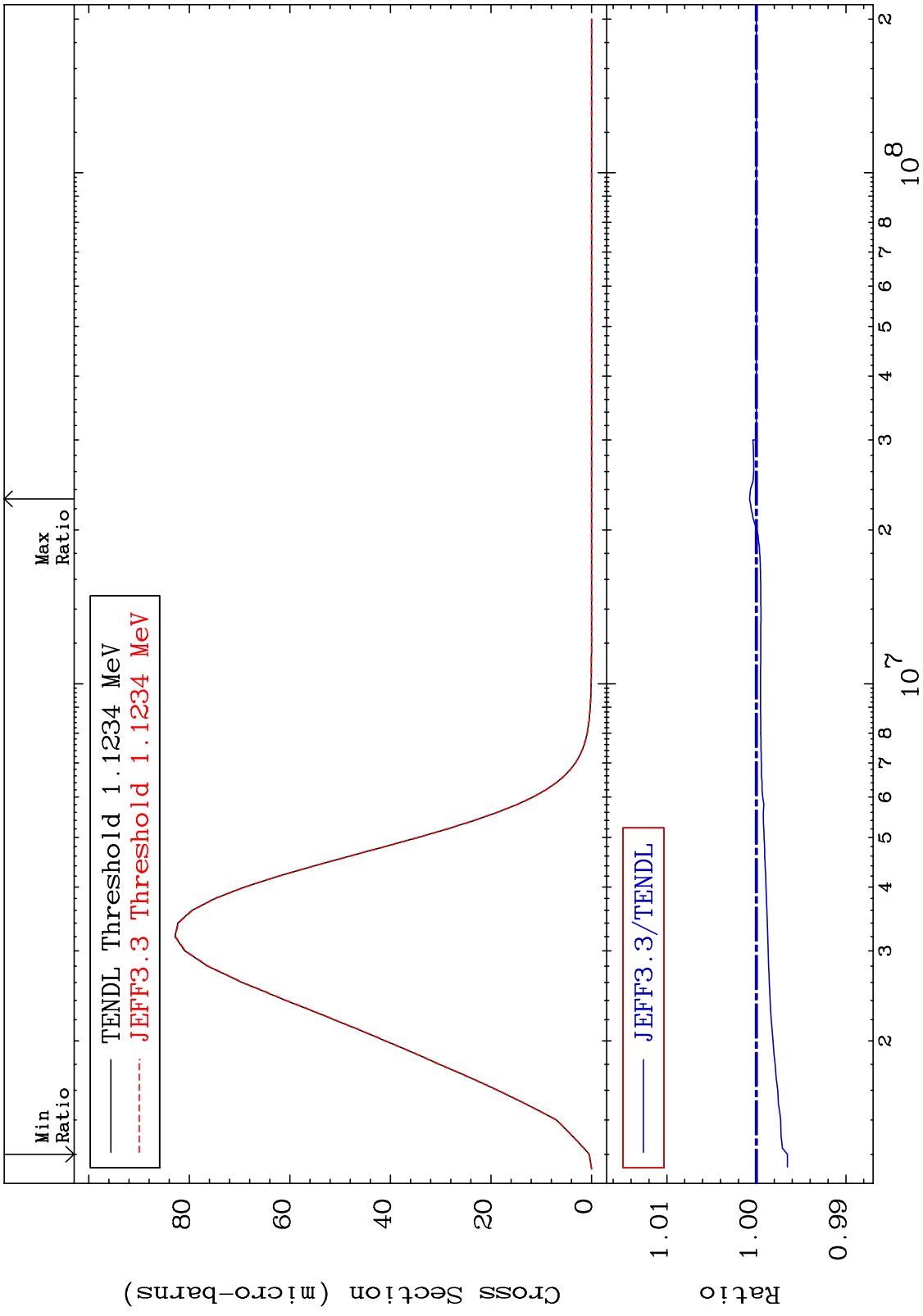
69-Tm-171

MAT 6931 MT= 78 (n,n') Level Cross Section 69-Tm-171
 -0.362 To 0.077 %

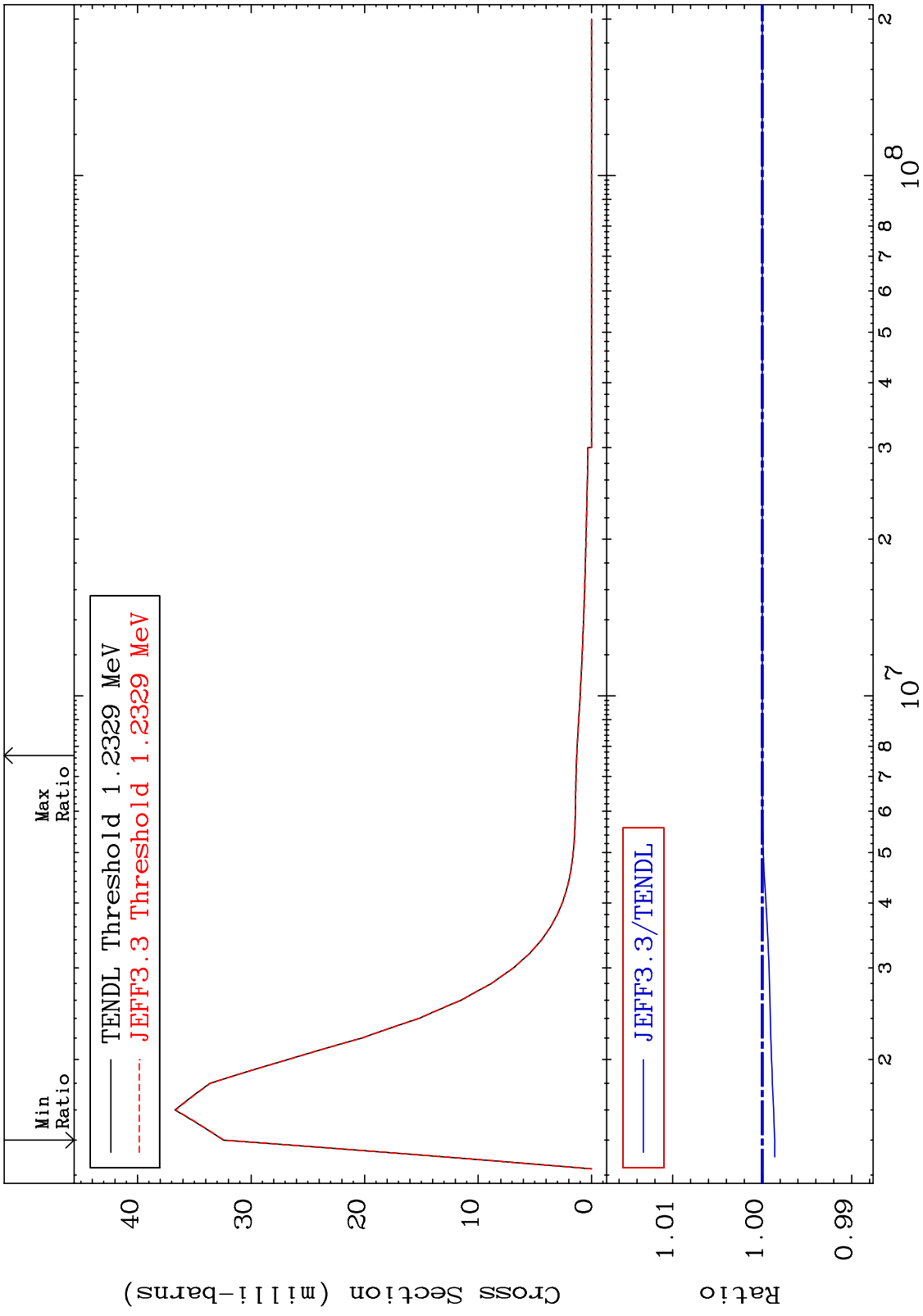


47 69-Tm-171

MAT 6931 MT= 79 (n,n') Level Cross Section 69-Tm-171
 -0.346 To 0.076 %



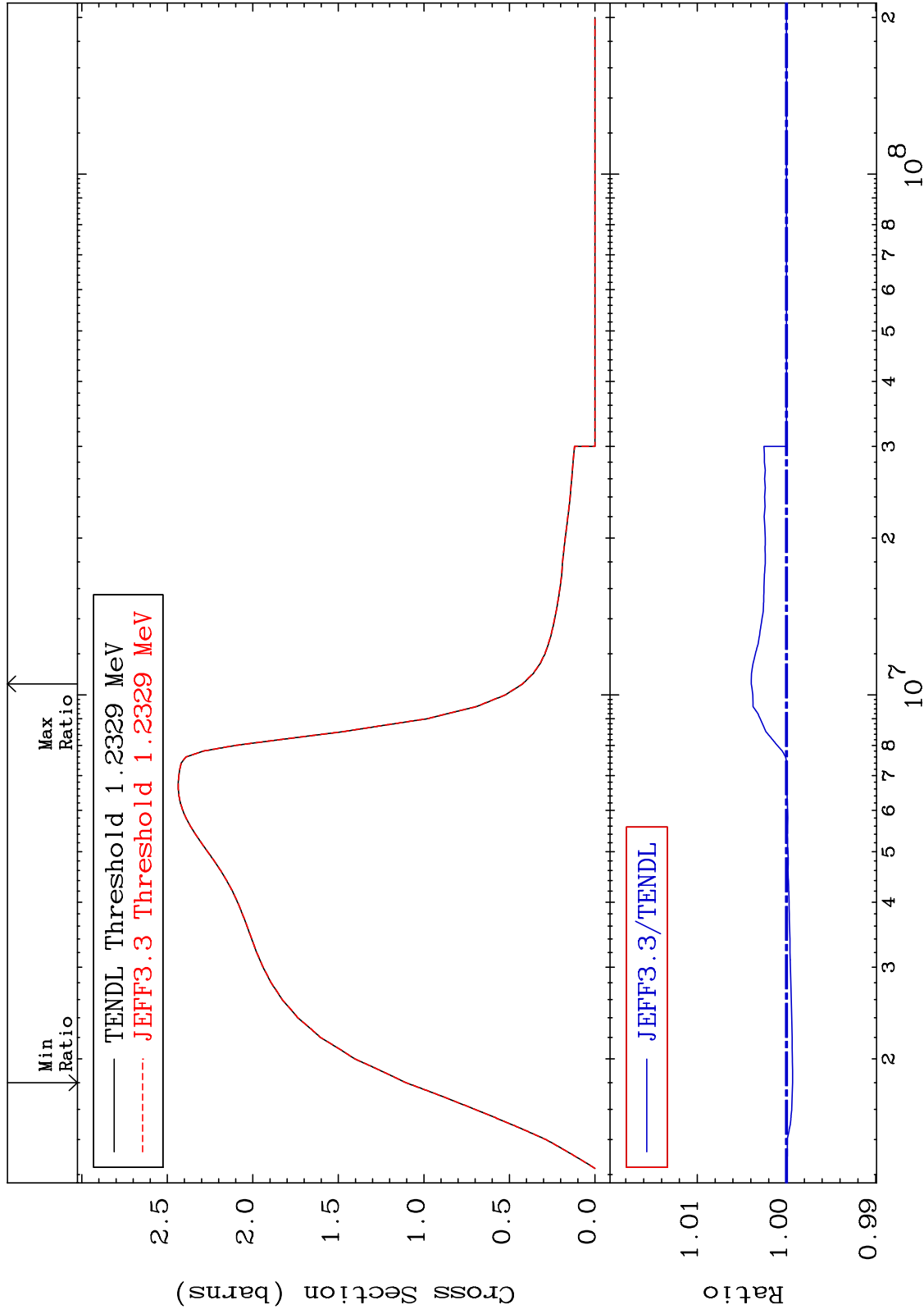
MAT 6931 MT= 80 (n,n') Level Cross Section 69-Tm-171
 -0.140 To 0.000 %



MAT 6931

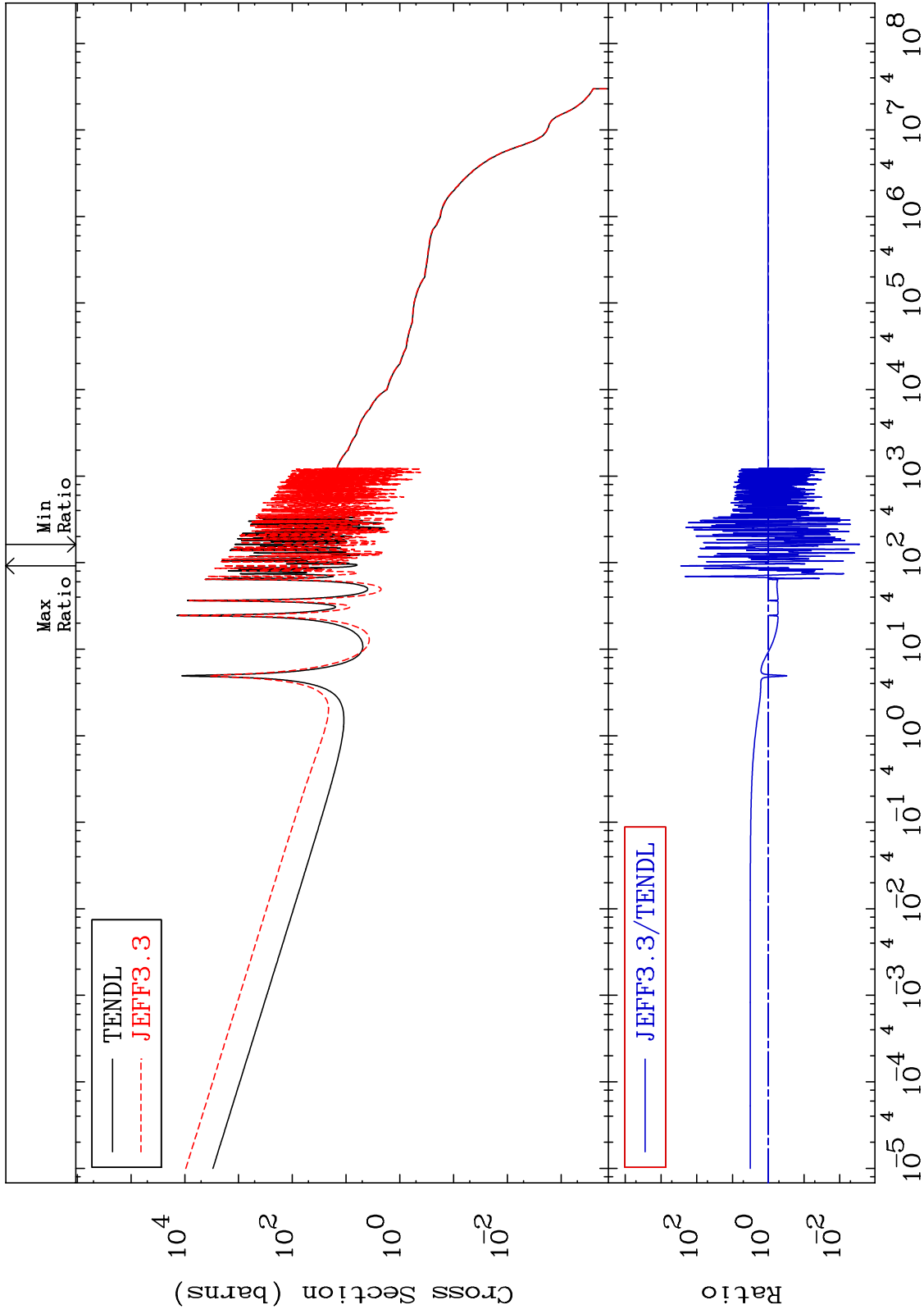
(n, n') Continuum
Cross Section

69-Tm-171
-0.068 To 0.396 %



MAT 6931

(n, γ) Cross Section
69-Tm-171
-99.72 To 9999. %



MAT 6931

(n,p)

69-Tm-171

-3.817 To 0.103 %

Cross Section

Min Ratio

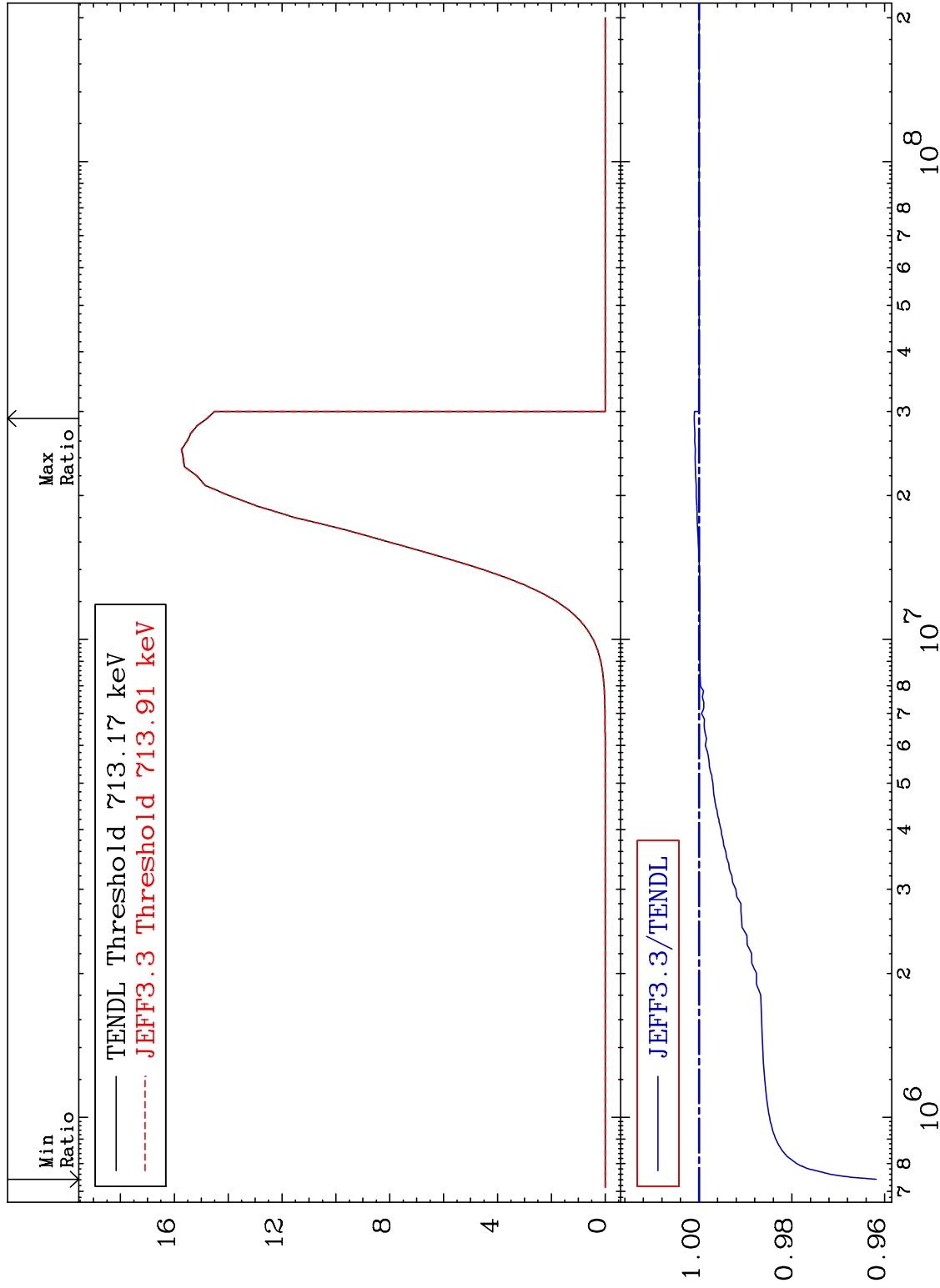
Max Ratio

TENDL Threshold 713.17 keV
JEFF3.3 Threshold 713.91 keV

JEFF3.3/TENDL

Cross Section (milli-barns)

Ratio



MAT 6931

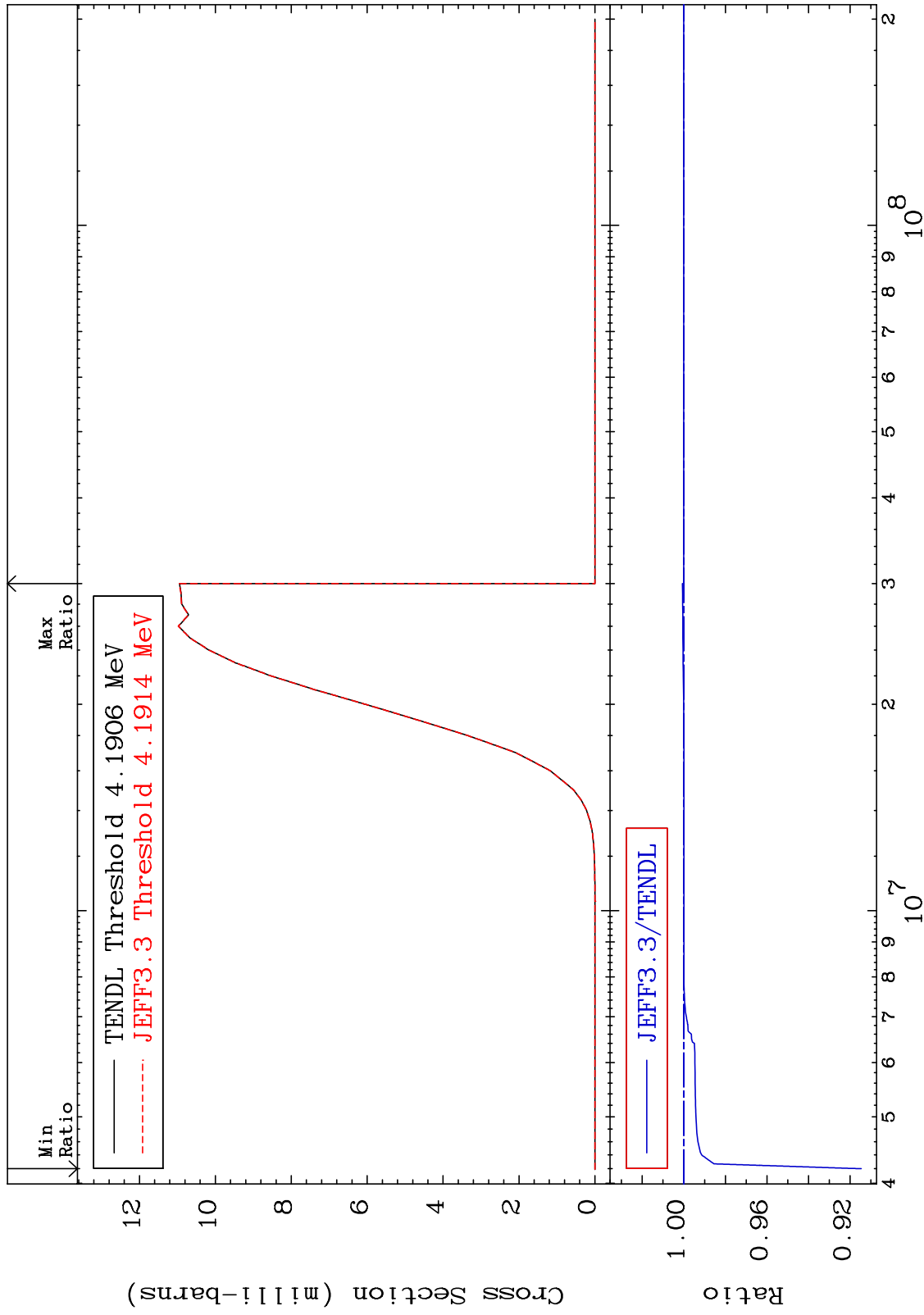
(n,d)

69-Tm-171

Cross Section

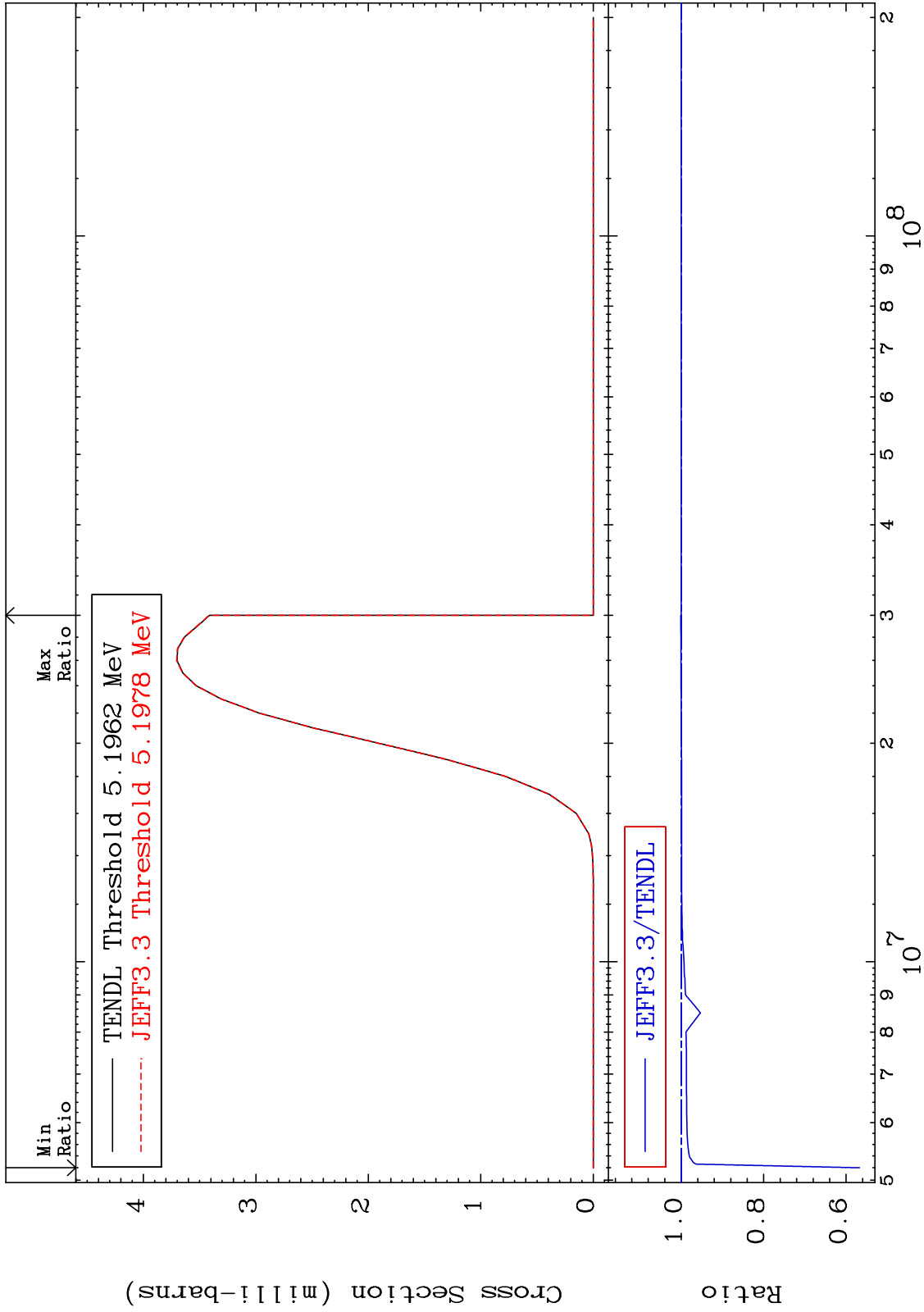
Cross Section

-8.537 To 0.065 %



MAT 6931

(n, t) Cross Section
69-Tm-171
-43.28 To 0.103 %



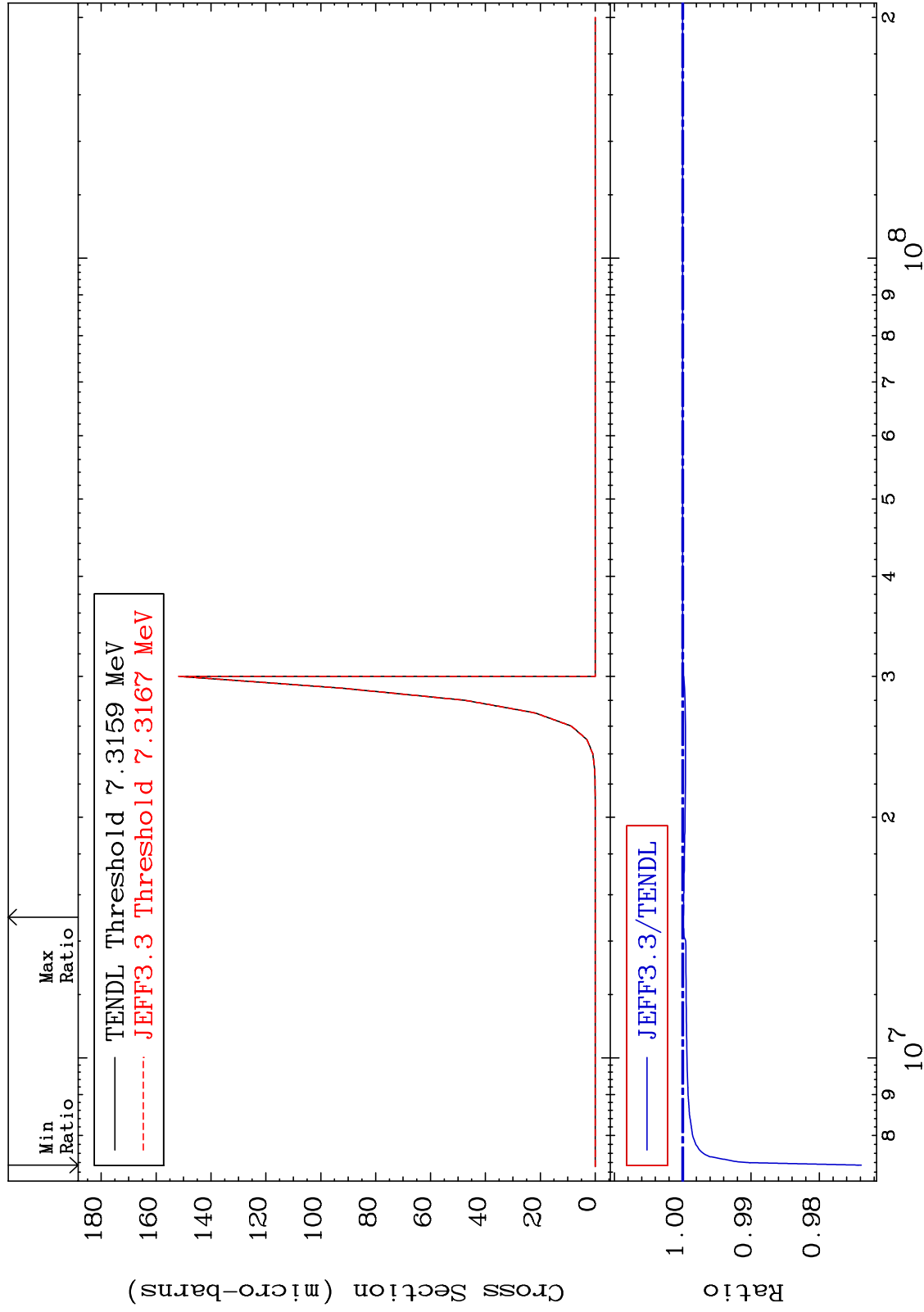
MAT 6931

(n, He-3)

69-Tm-171

-2.614 To 0.000 %

Cross Section



MAT 6931

(n, α)

69-Tm-171

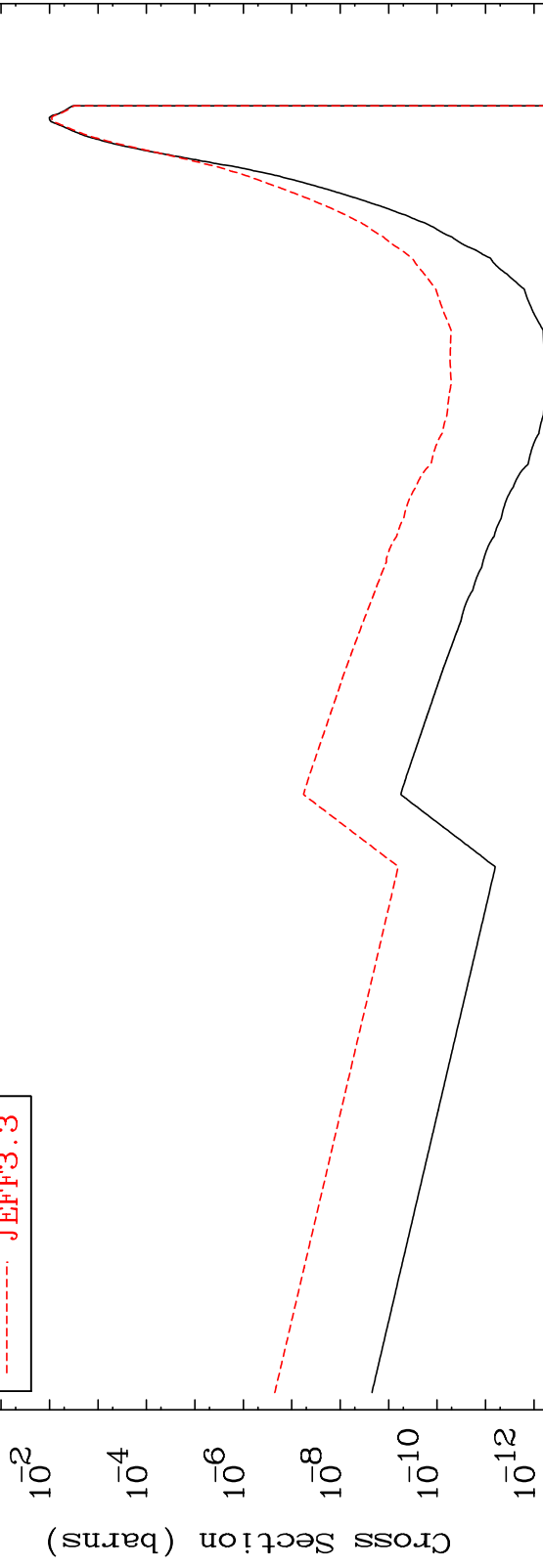
-16.84 To 9999. %

Cross Section

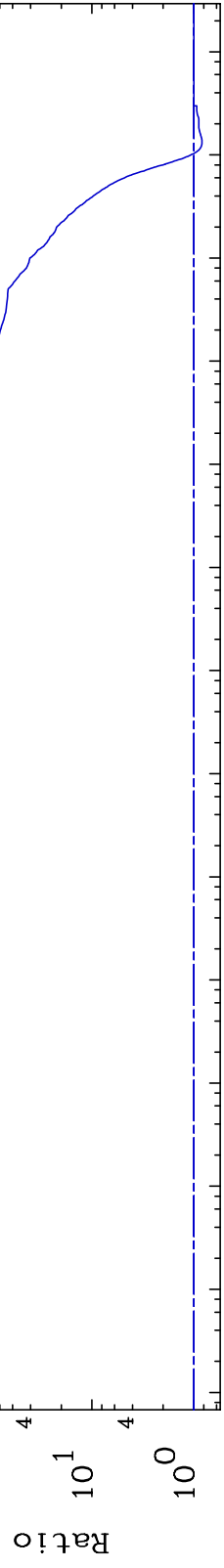
Max Ratio

Min Ratio

TENDL
JEFF3.3

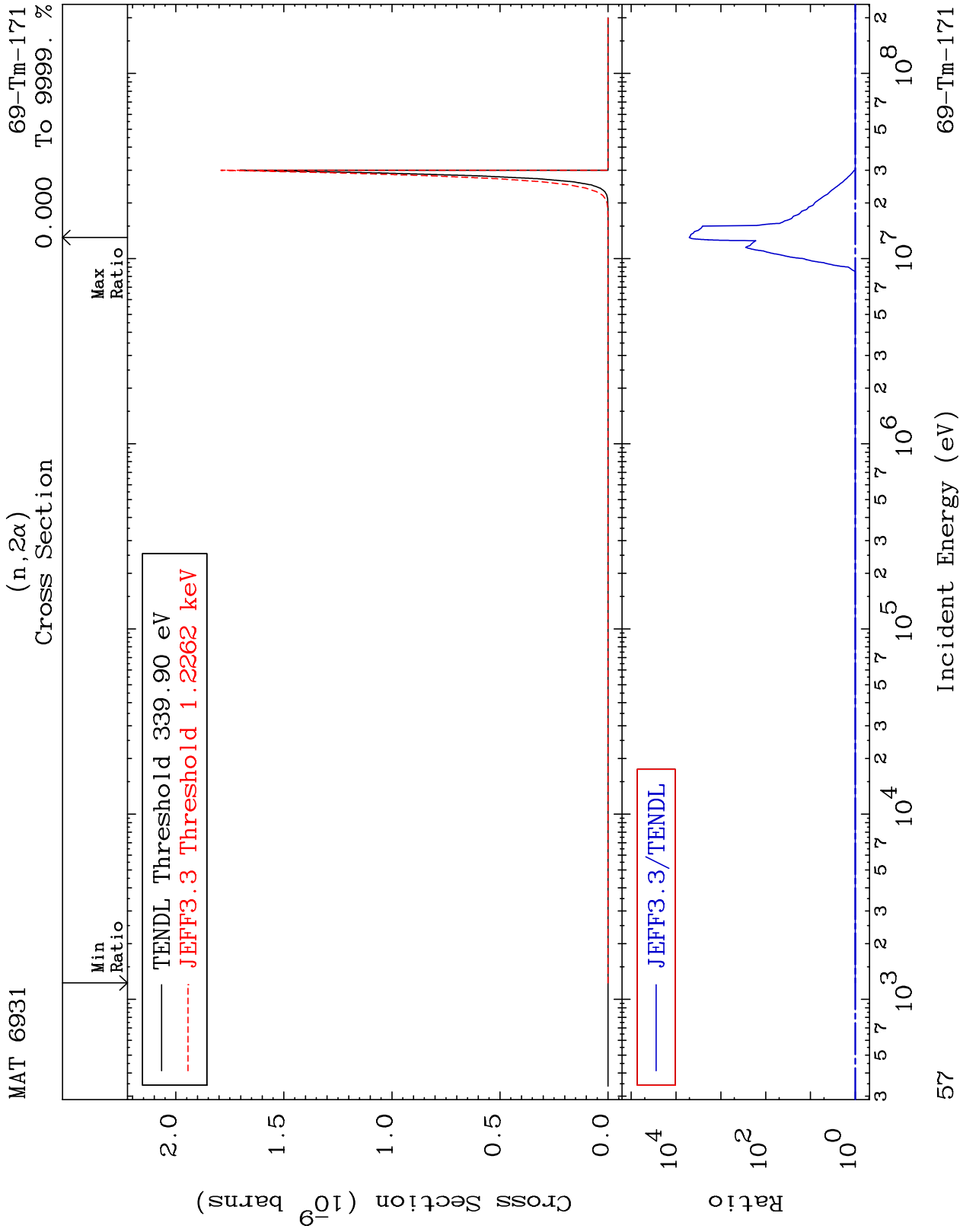


JEFF3.3/TENDL



Incident Energy (eV)

69-Tm-171



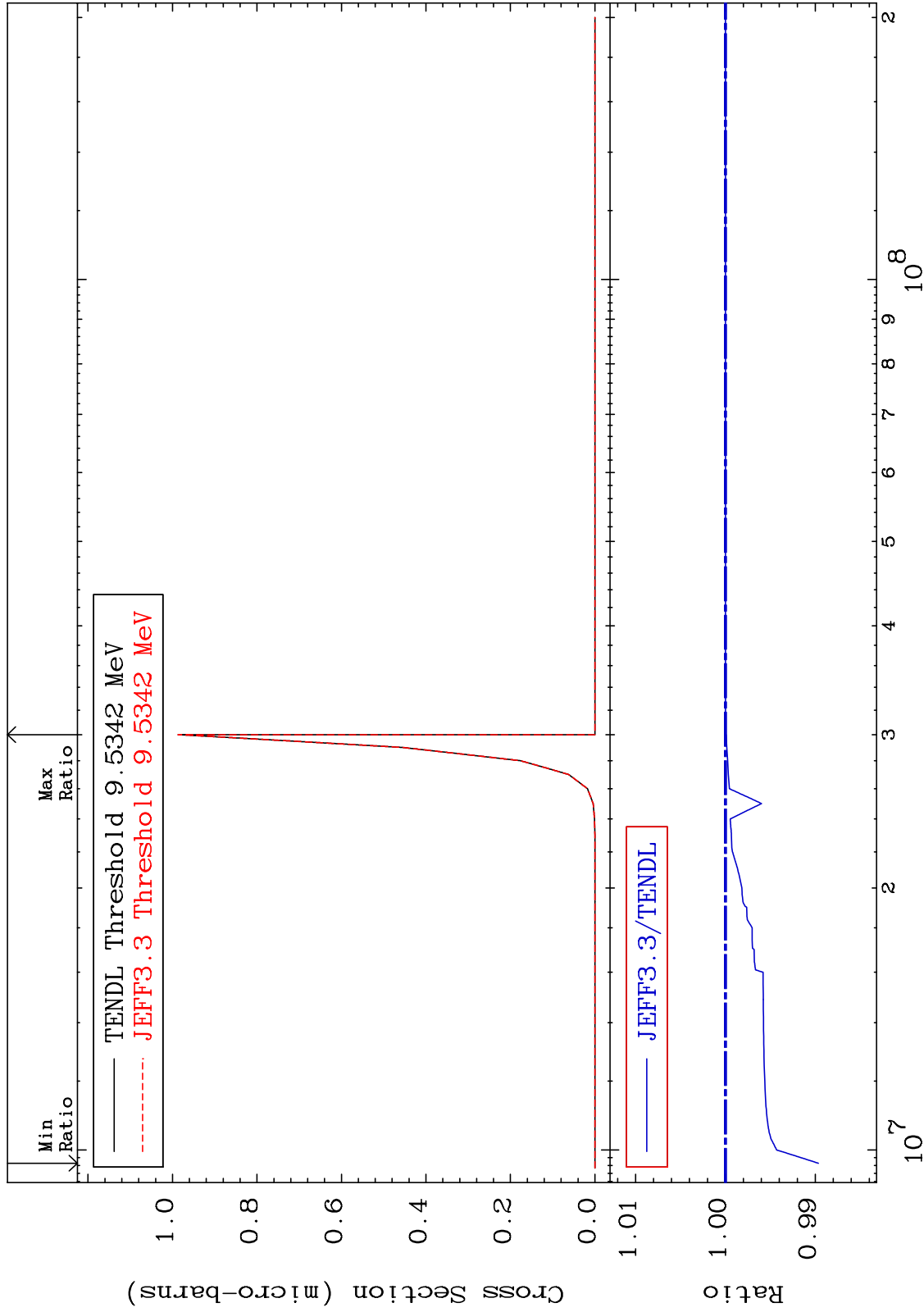
MAT 6931

(n,2p)

69-Tm-171

-1.034 To 0.000 %

Cross Section



58

Incident Energy (eV)

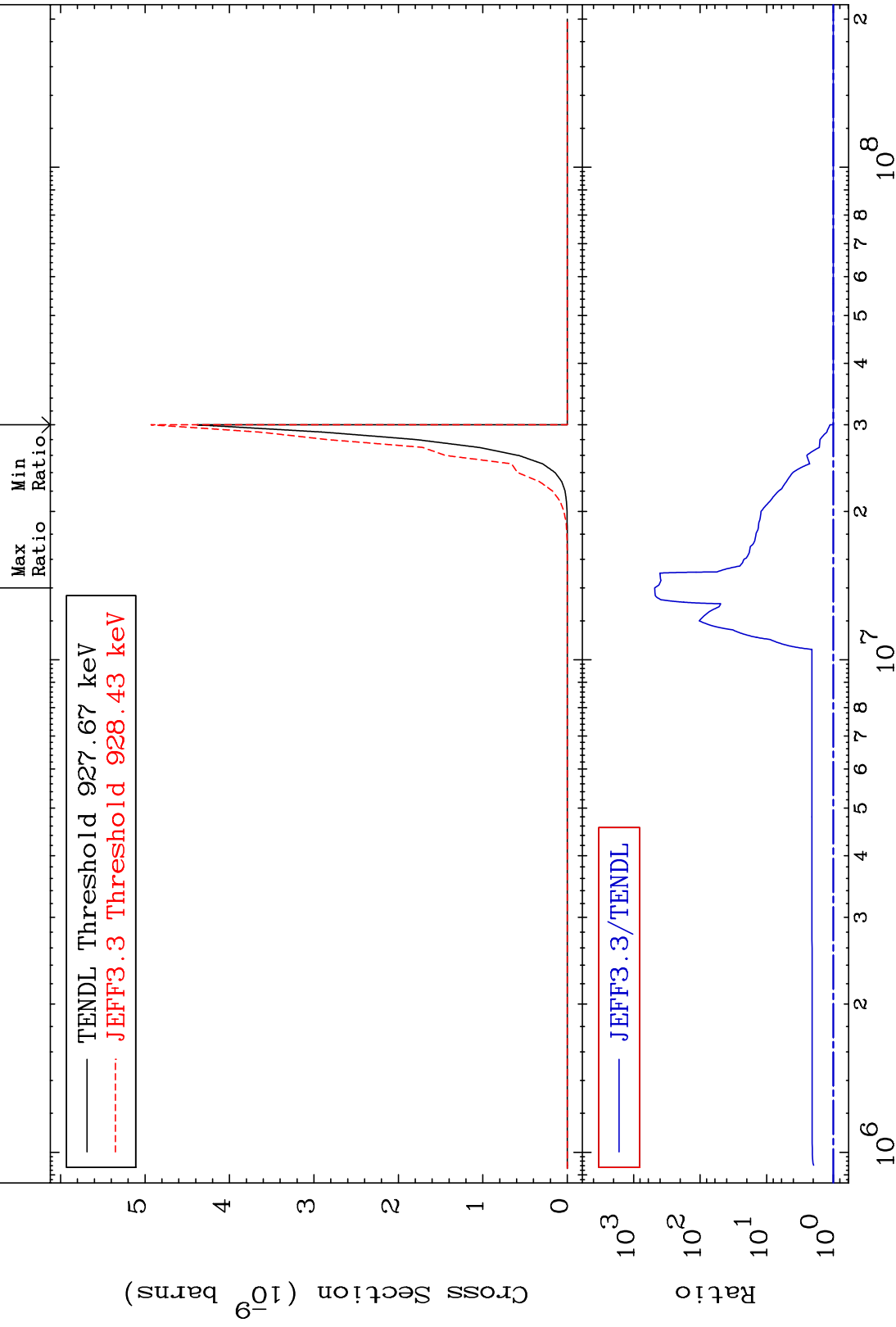
69-Tm-171

MAT 6931

(n,p) α

69-Tm-171
To 9999. %
0.000

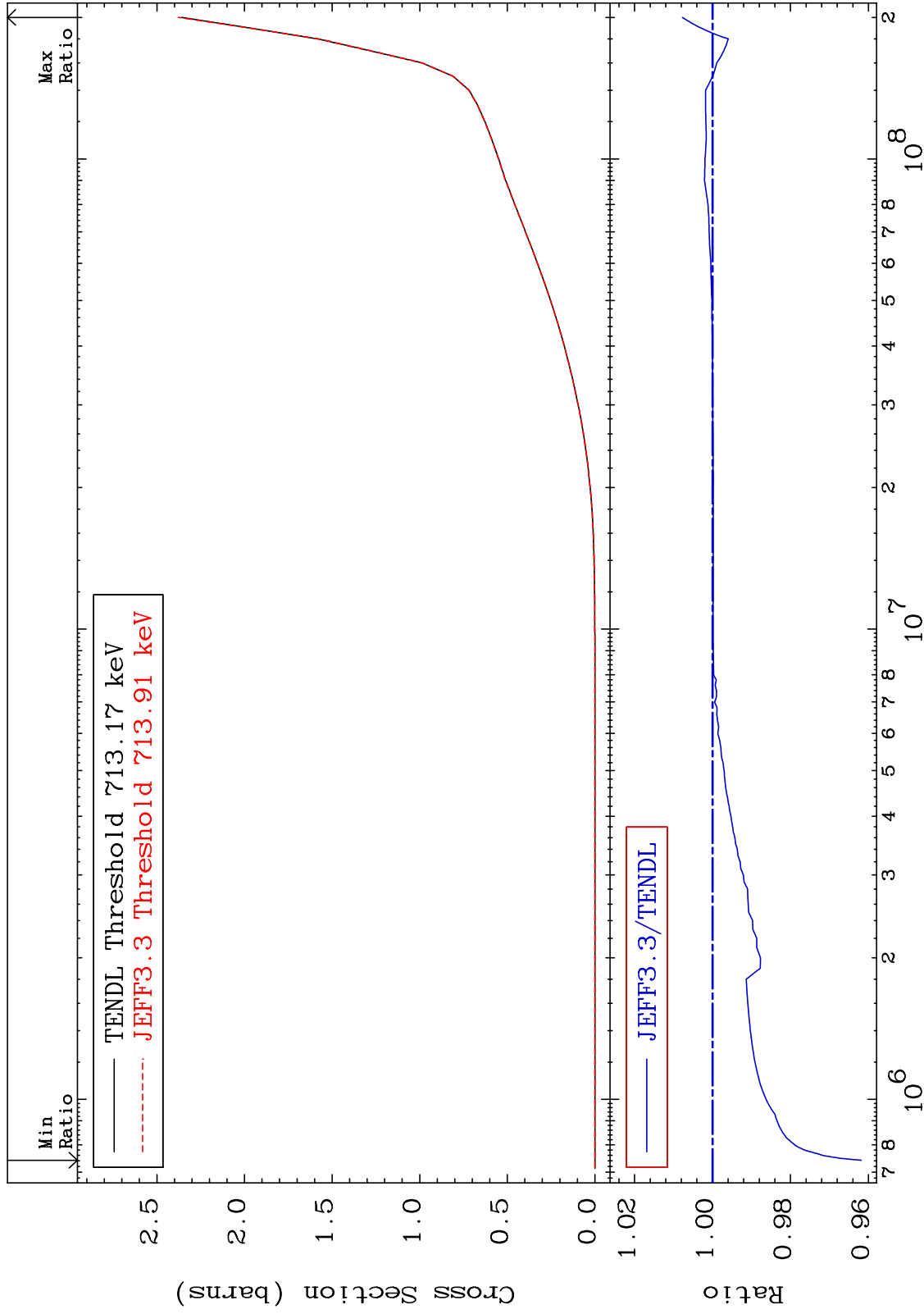
Cross Section



MAT 6931

Hydrogen Production
Cross Section

69-Tm-171
-3.817 To 0.771 %



60

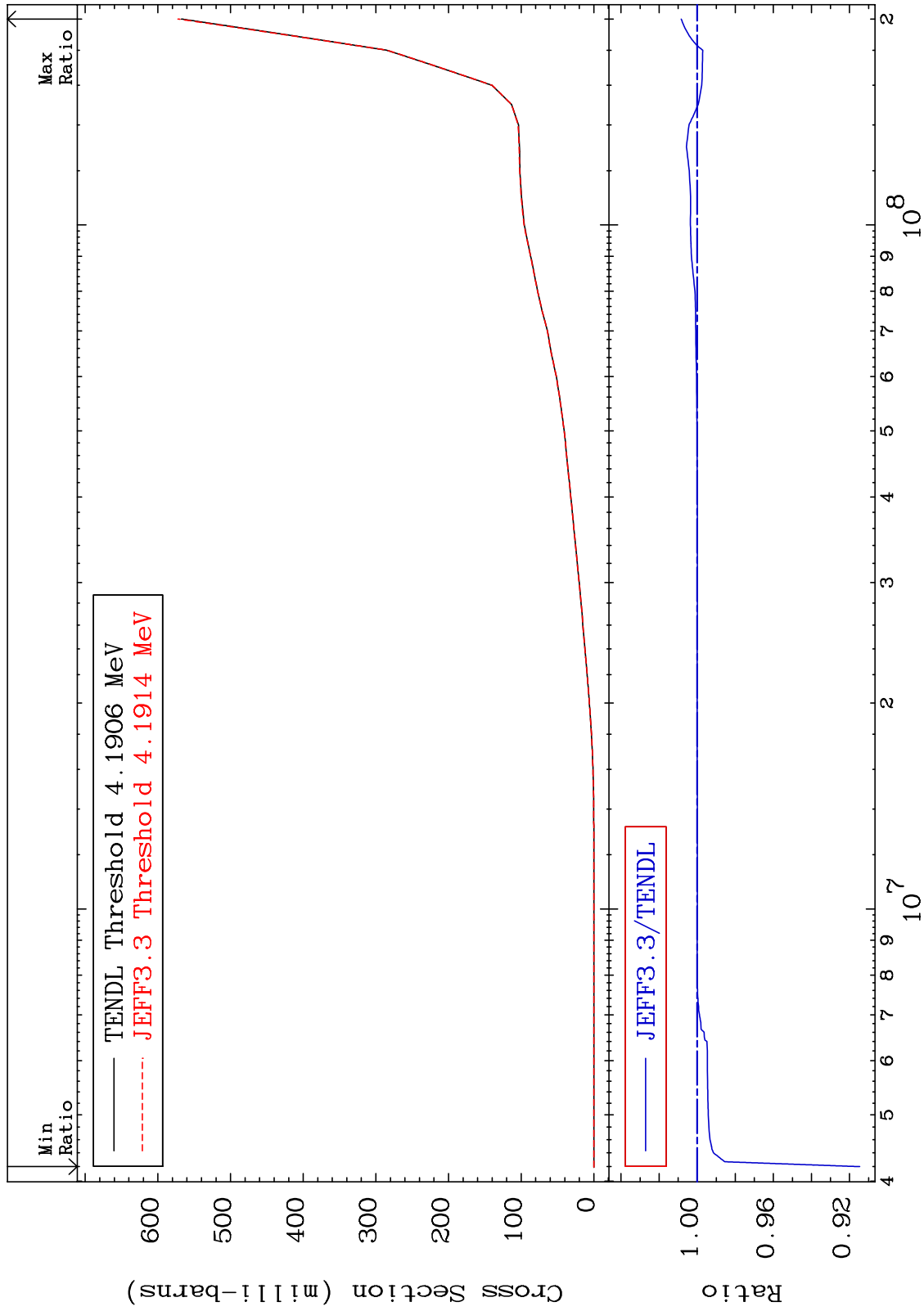
Incident Energy (eV)

69-Tm-171

MAT 6931

Deuterium Production
Cross Section

69-Tm-171
-8.537 To 0.837 %

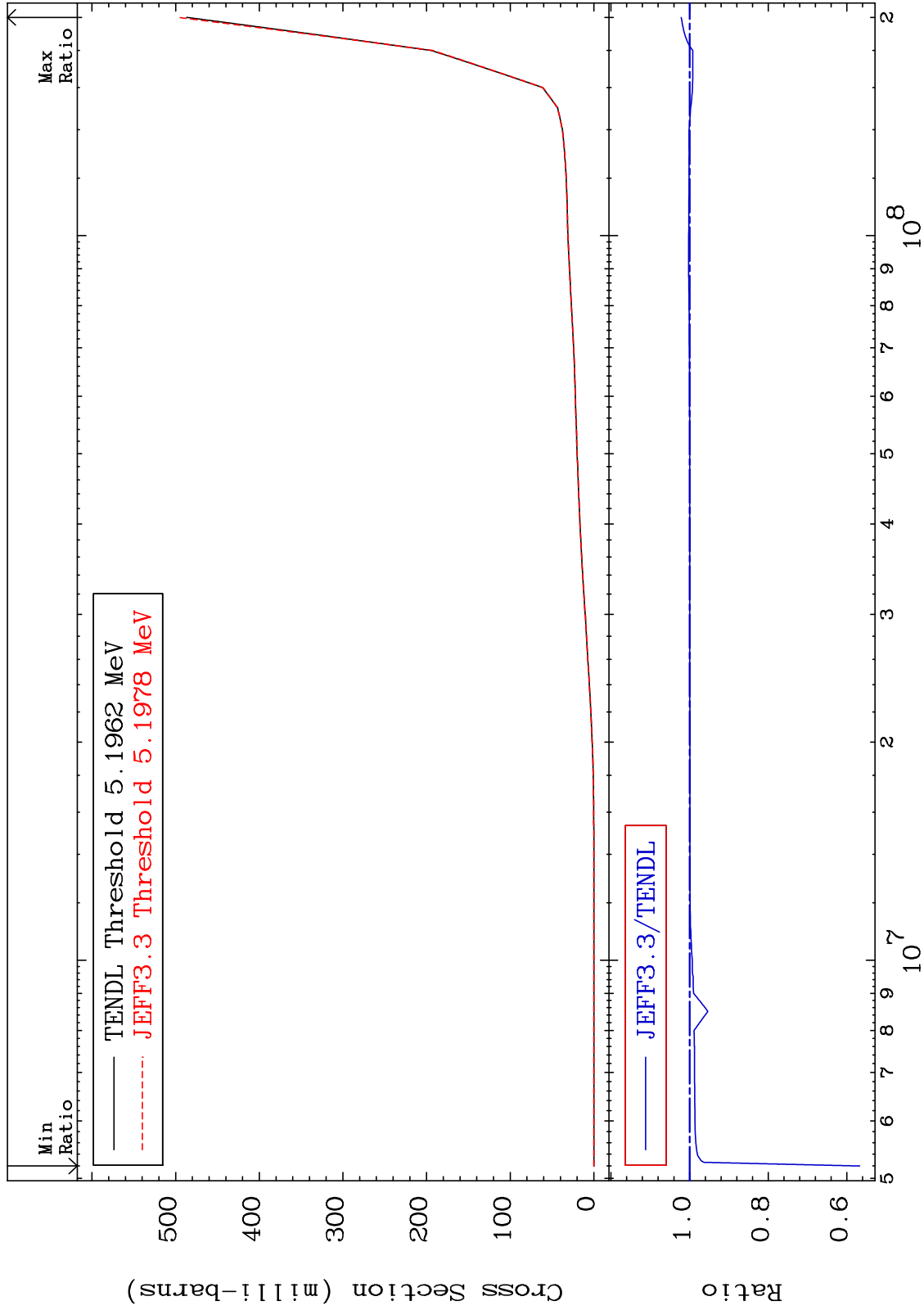


61

MAT 6931

Tritium Production
Cross Section

69-Tm-171
-43.28 To 2.124 %



62

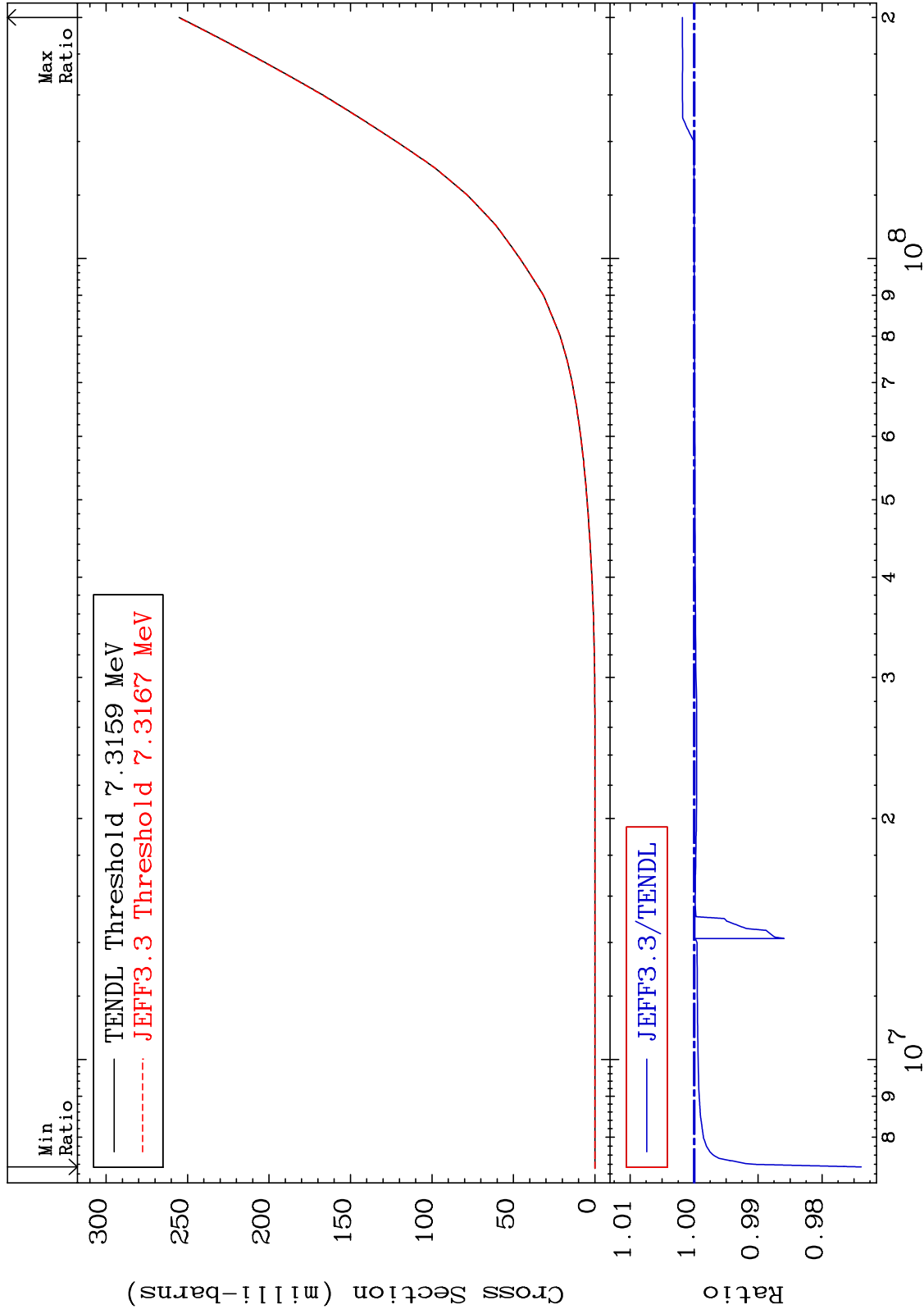
Incident Energy (eV)

69-Tm-171

MAT 6931

He-3 Production
Cross Section

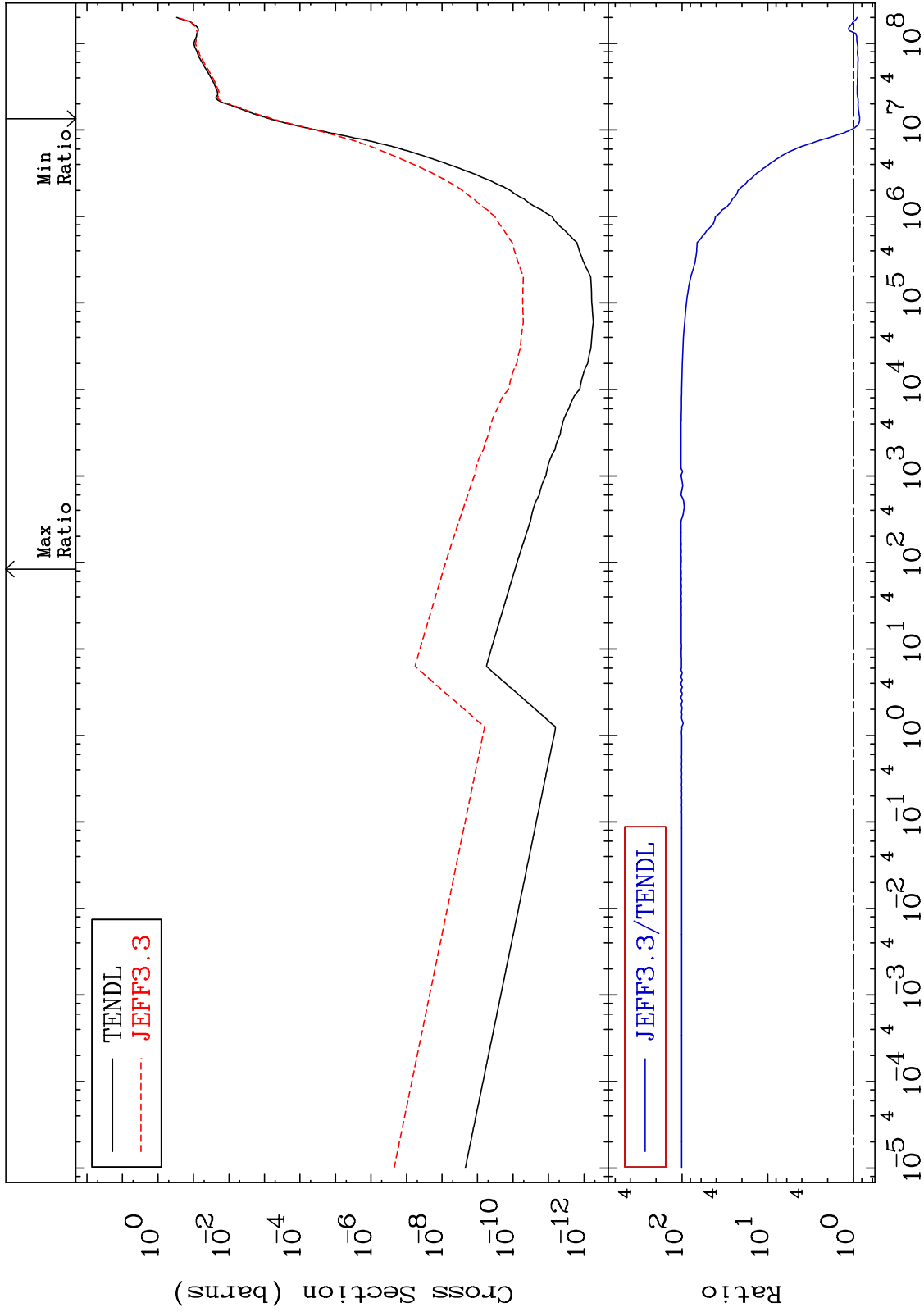
69-Tm-171
-2.614 To 0.183 %



MAT 6931

He-4 Production
Cross Section

69-Tm-171
-15.14 To 9999. %

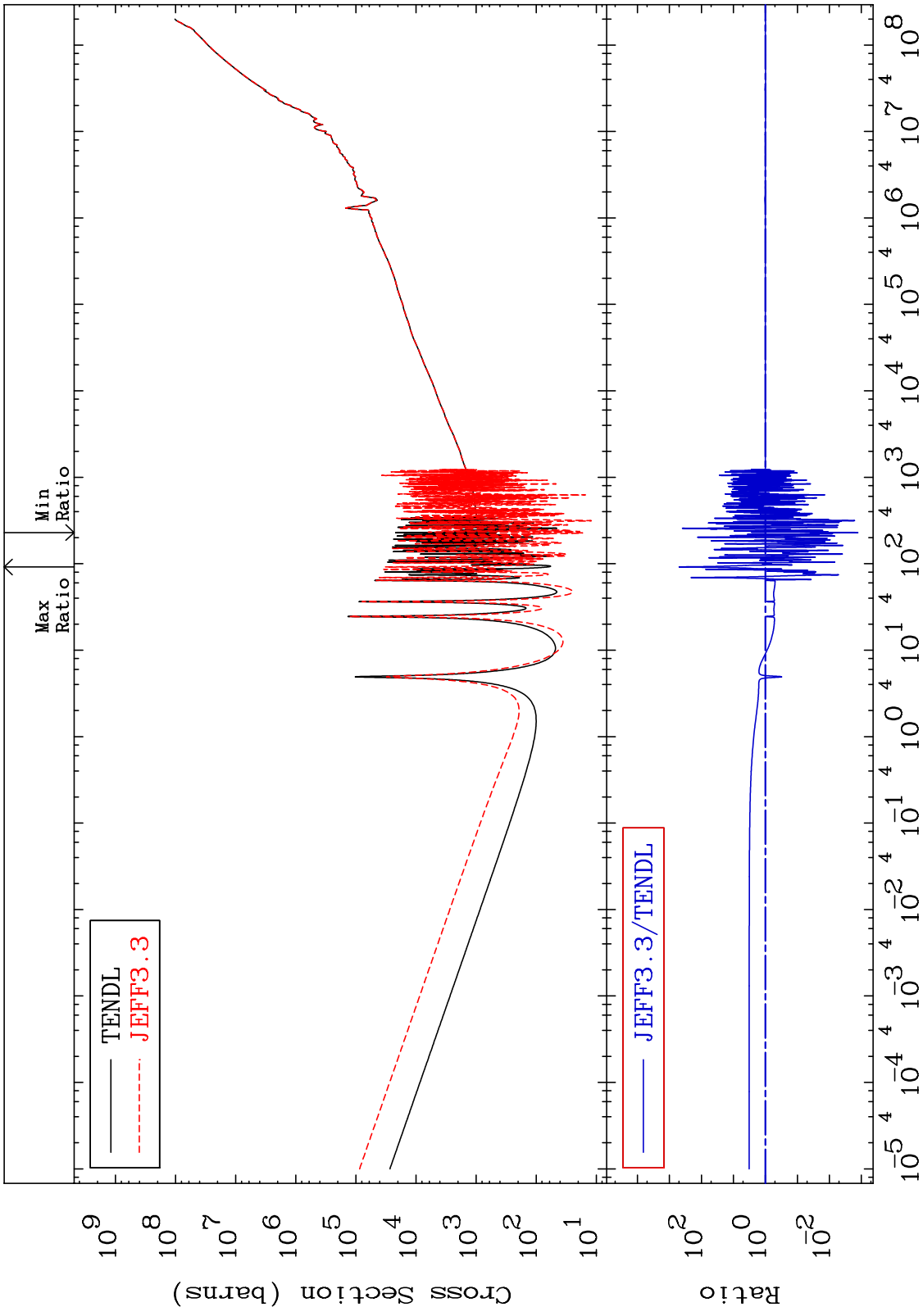


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Incident Energy (eV)

69-Tm-171

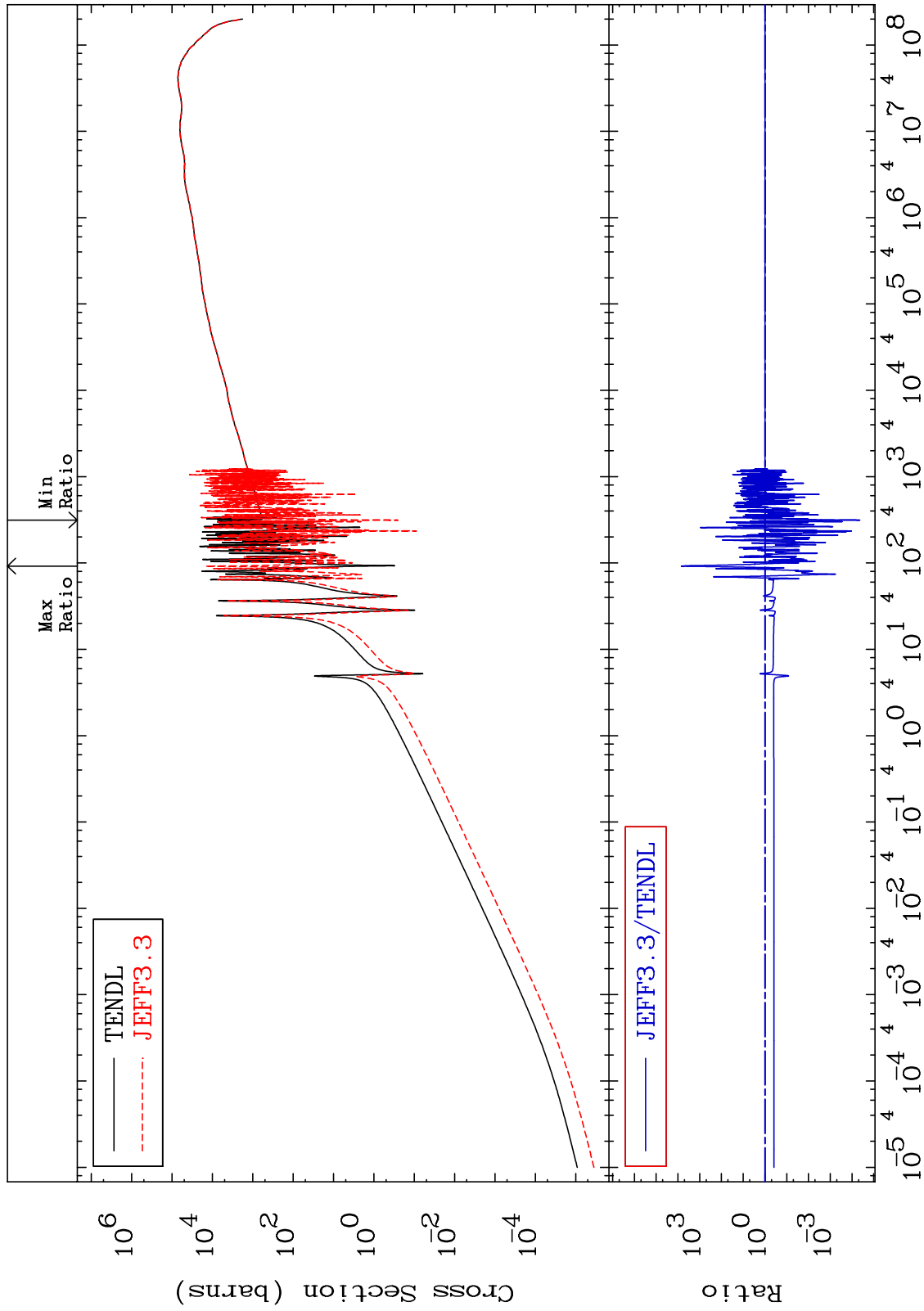
MAT 6931 Kerma total (eV-barns) 69-Tm-171
 Cross Section -99.87 To 9999. %



MAT 6931

Kerma elastic
Cross Section

69-Tm-171
-100.0 To 9999. %



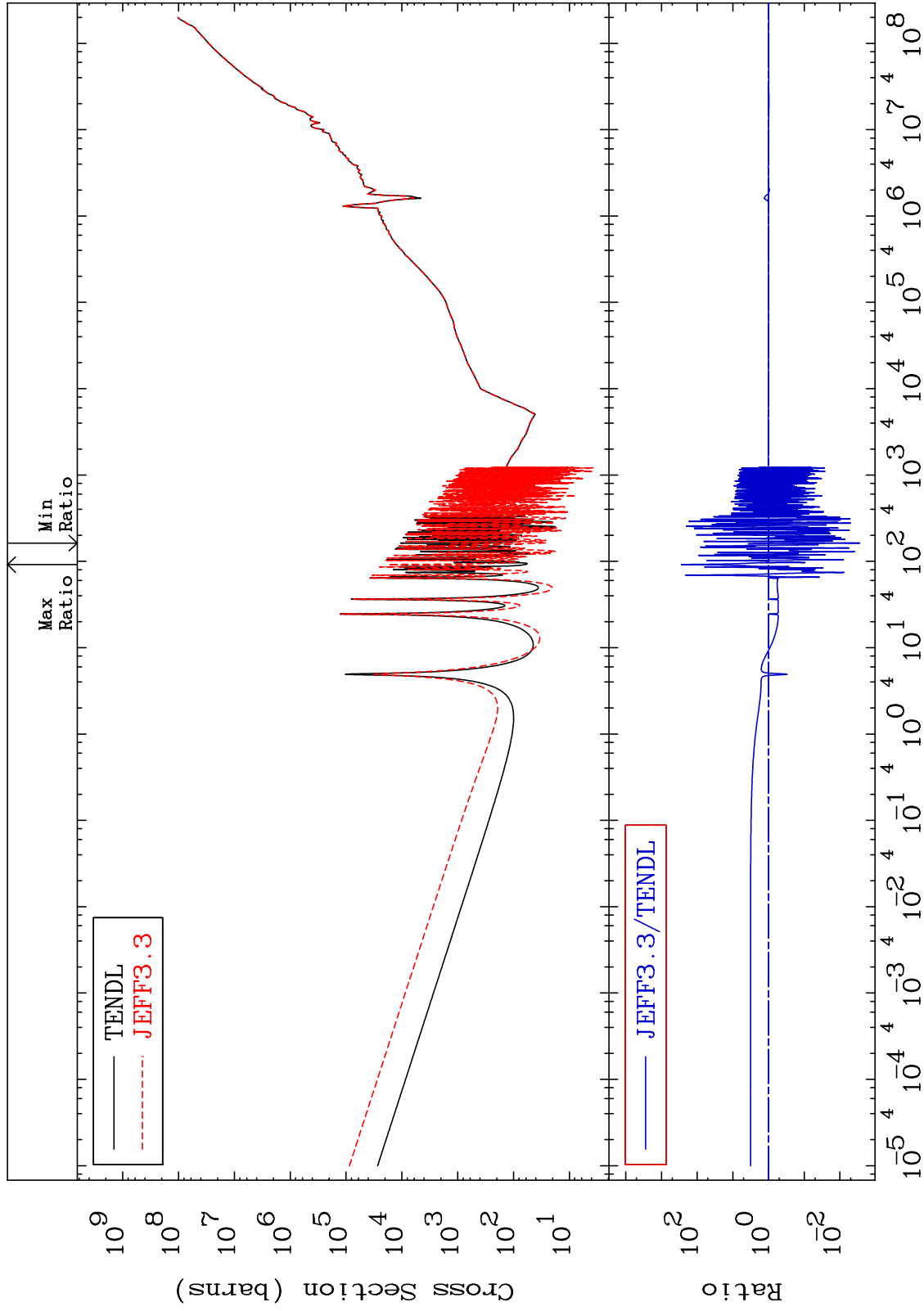
MAT 6931

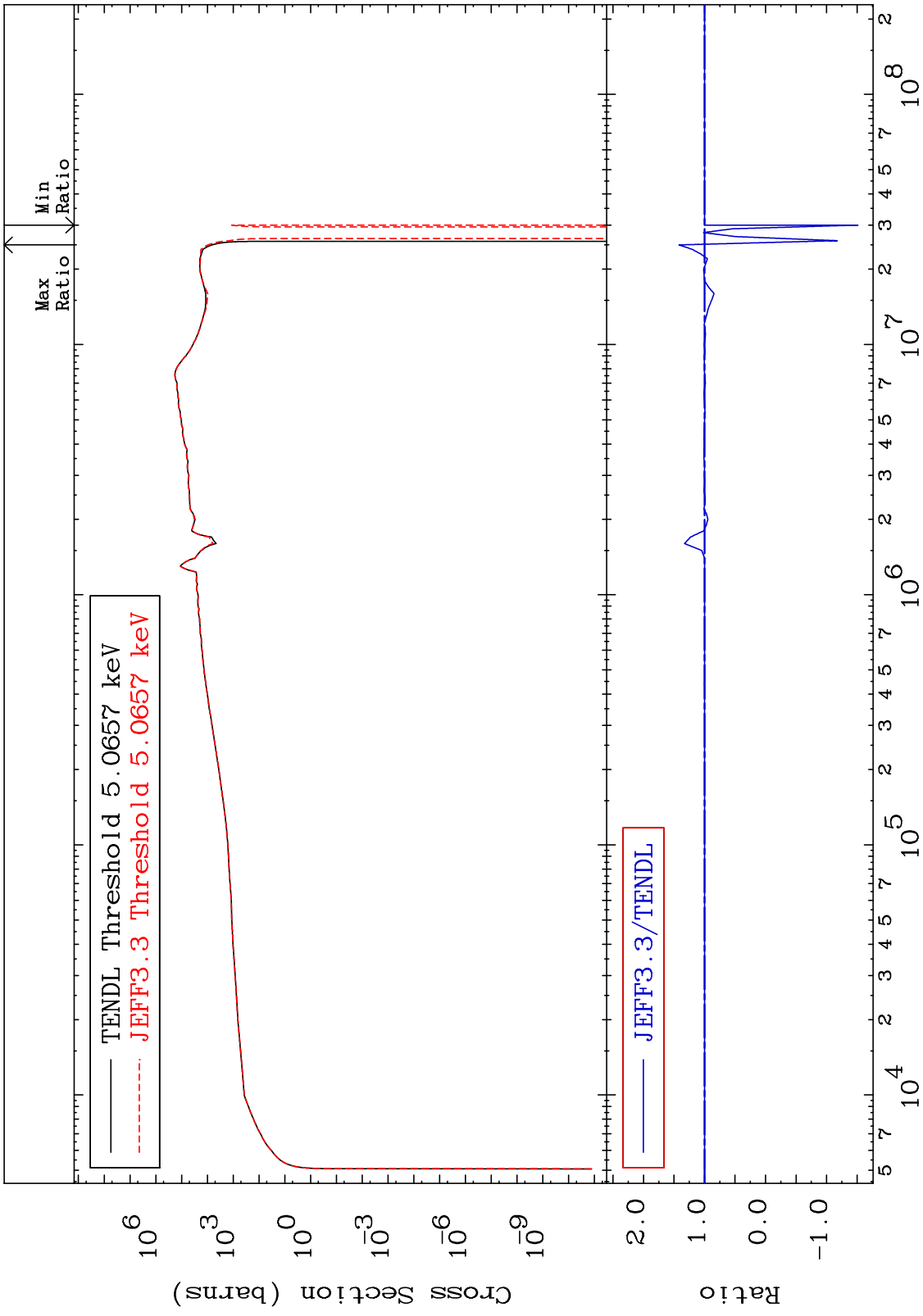
Kerma non-elastic (all but mt2)

69-Tm-171

-99.72 To 9999. %

Cross Section

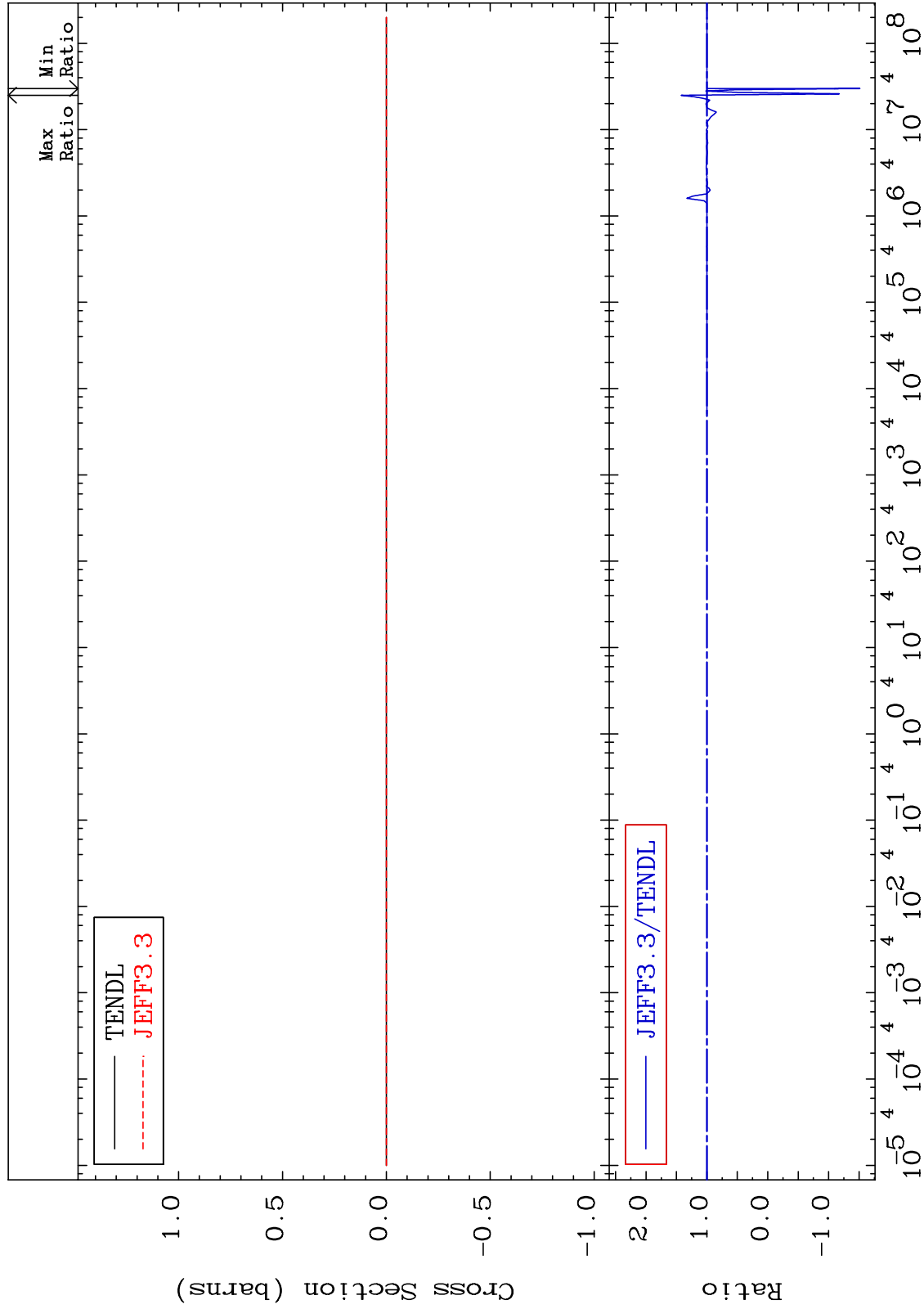




MAT 6931

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

69-Tm-171
-251.3 To 41.77 %



69

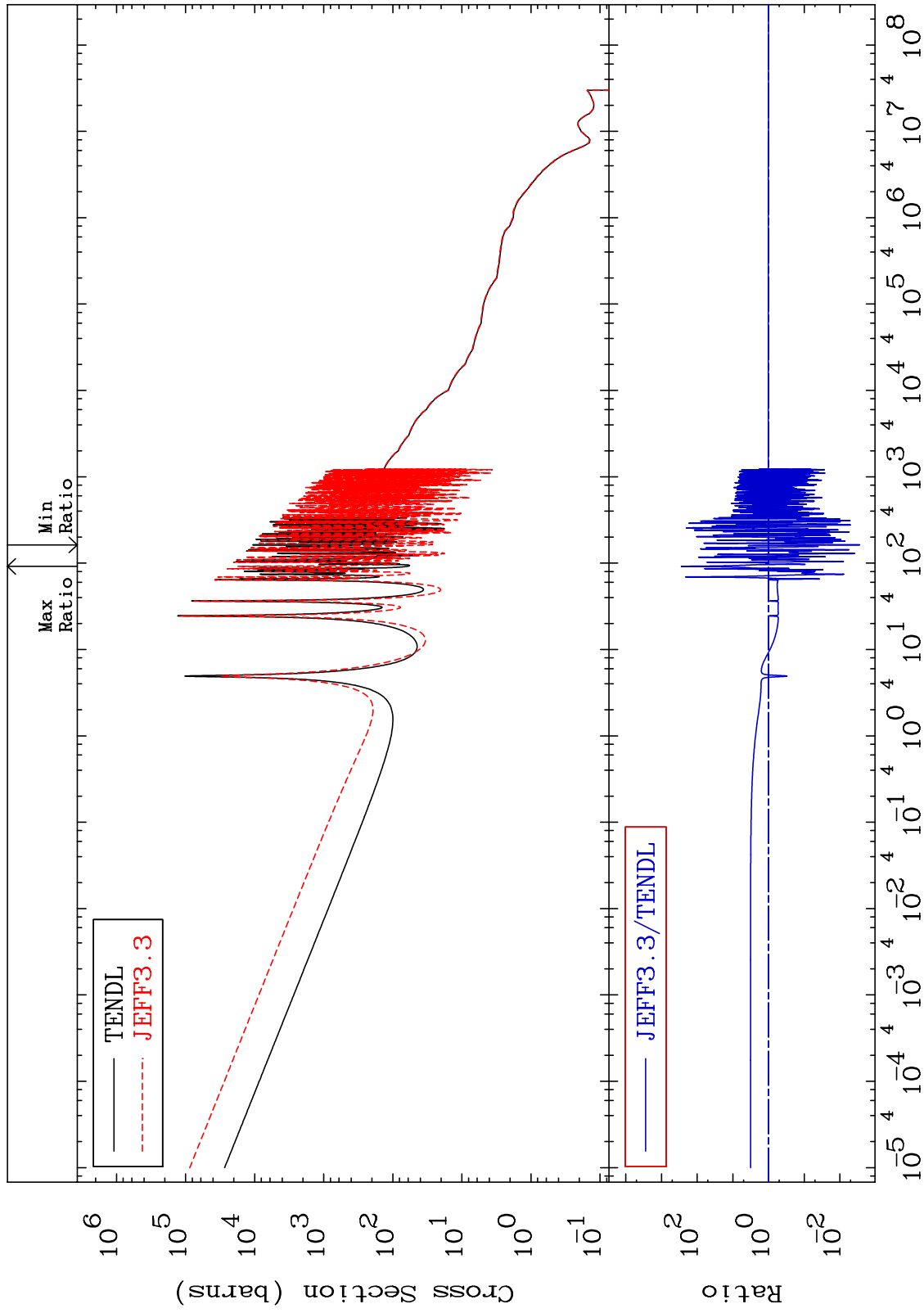
Incident Energy (eV)

69-Tm-171

MAT 6931

Kerma capture (mt102)
Cross Section

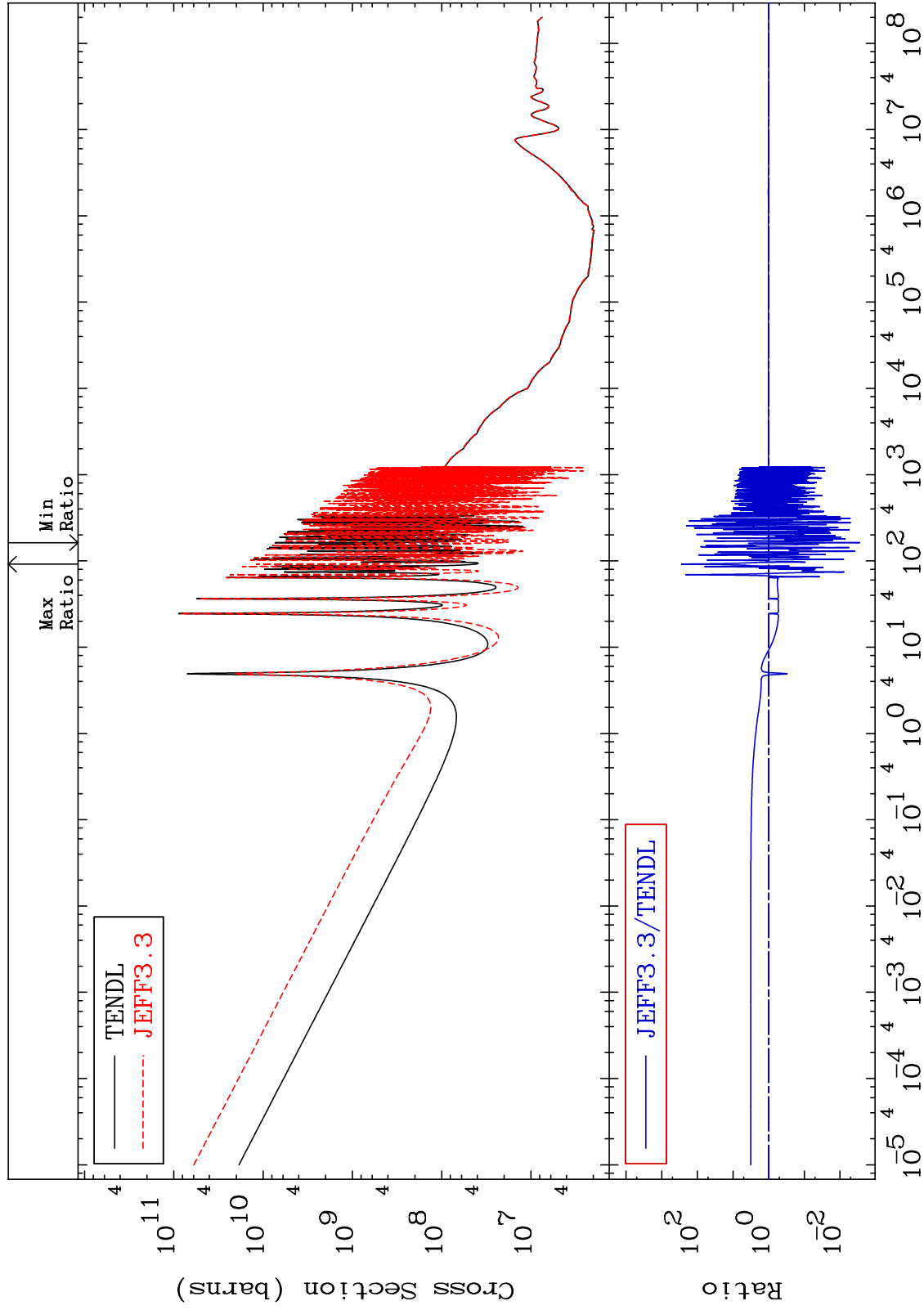
69-Tm-171
-99.72 To 9999. %



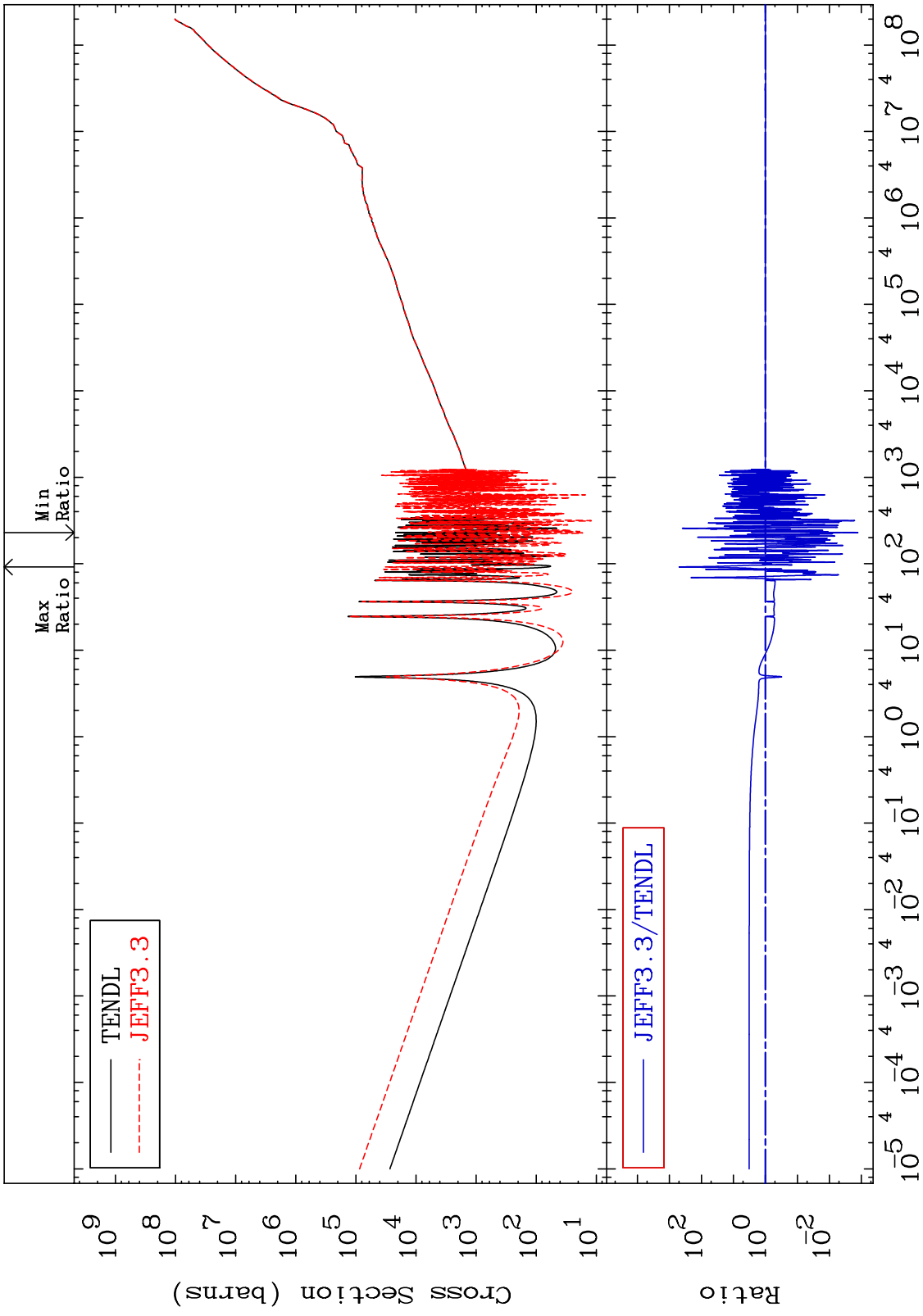
MAT 6931

Total photon (eV-barns)
Cross Section

69-Tm-171
-99.72 To 9999. %



MAT 6931 Total kinematic kerma (high limit) 69-Tm-171
 Cross Section -99.87 To 9999. %



72 Incident Energy (eV) 69-Tm-171

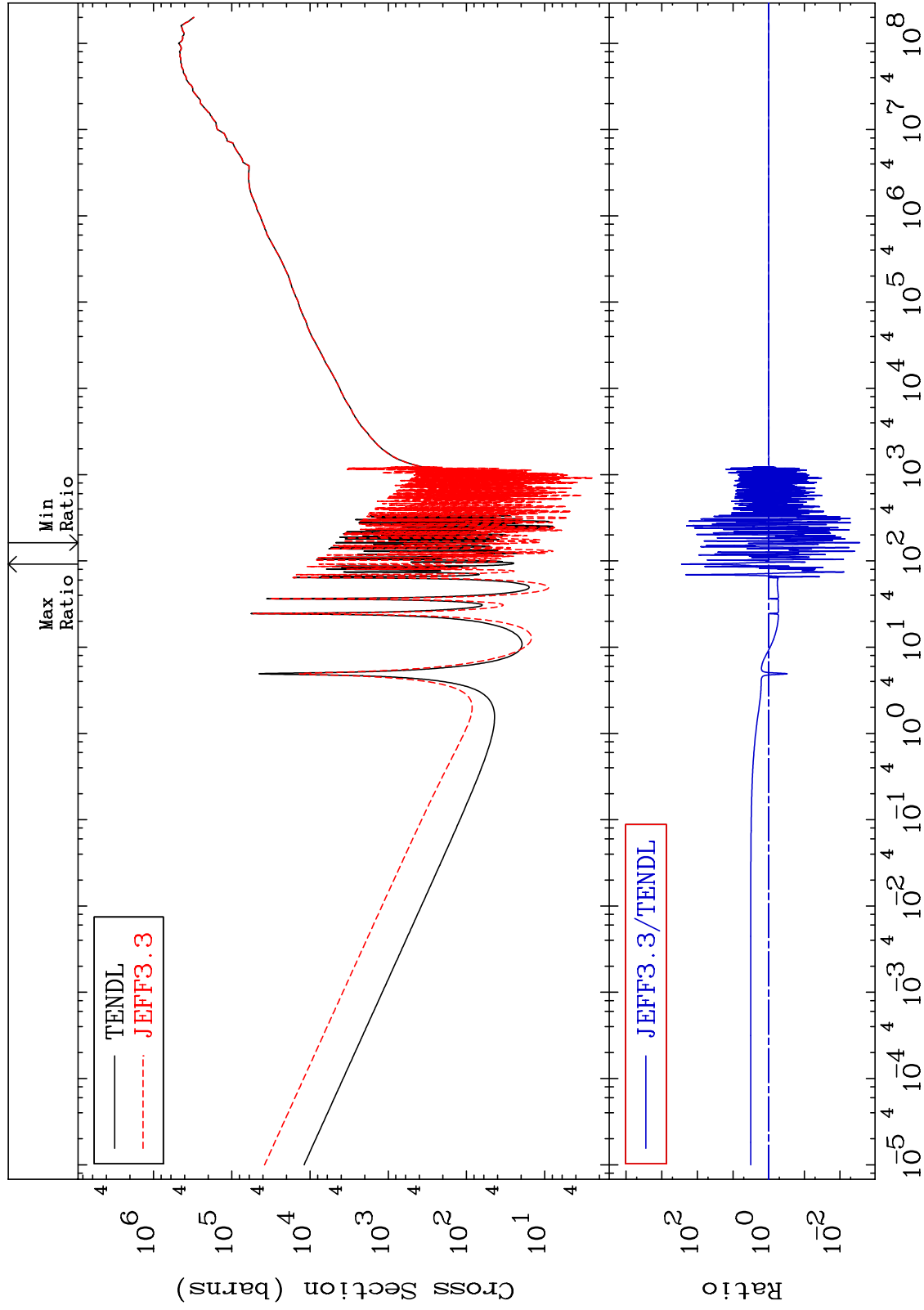
MAT 6931

Dpa total (eV-barns)

69-Tm-171

-99.72 To 9999. %

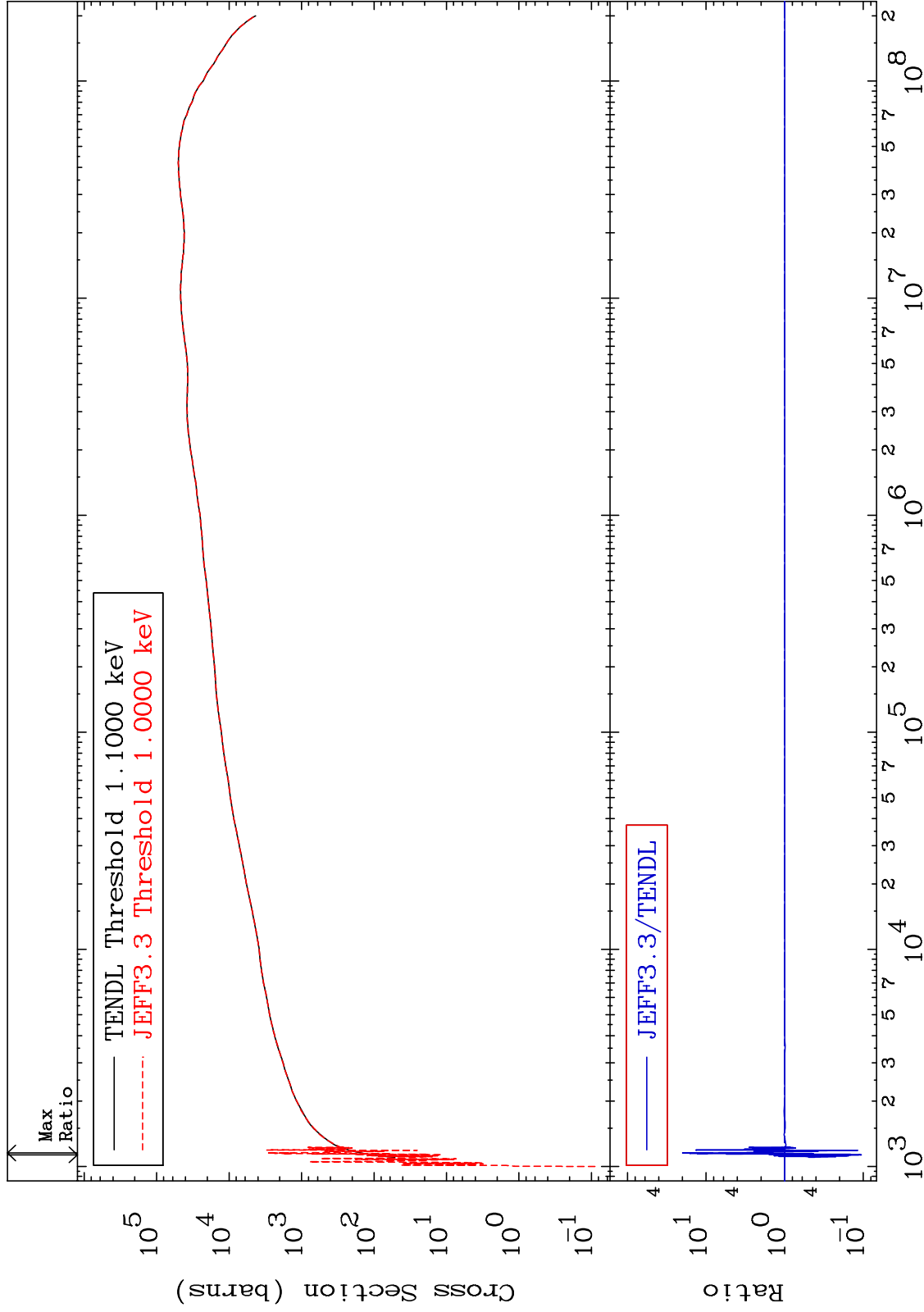
Cross Section



MAT 6931

Dpa elastic (mt2)
Cross Section

69-Tm-171
-89.39 To 1897. %



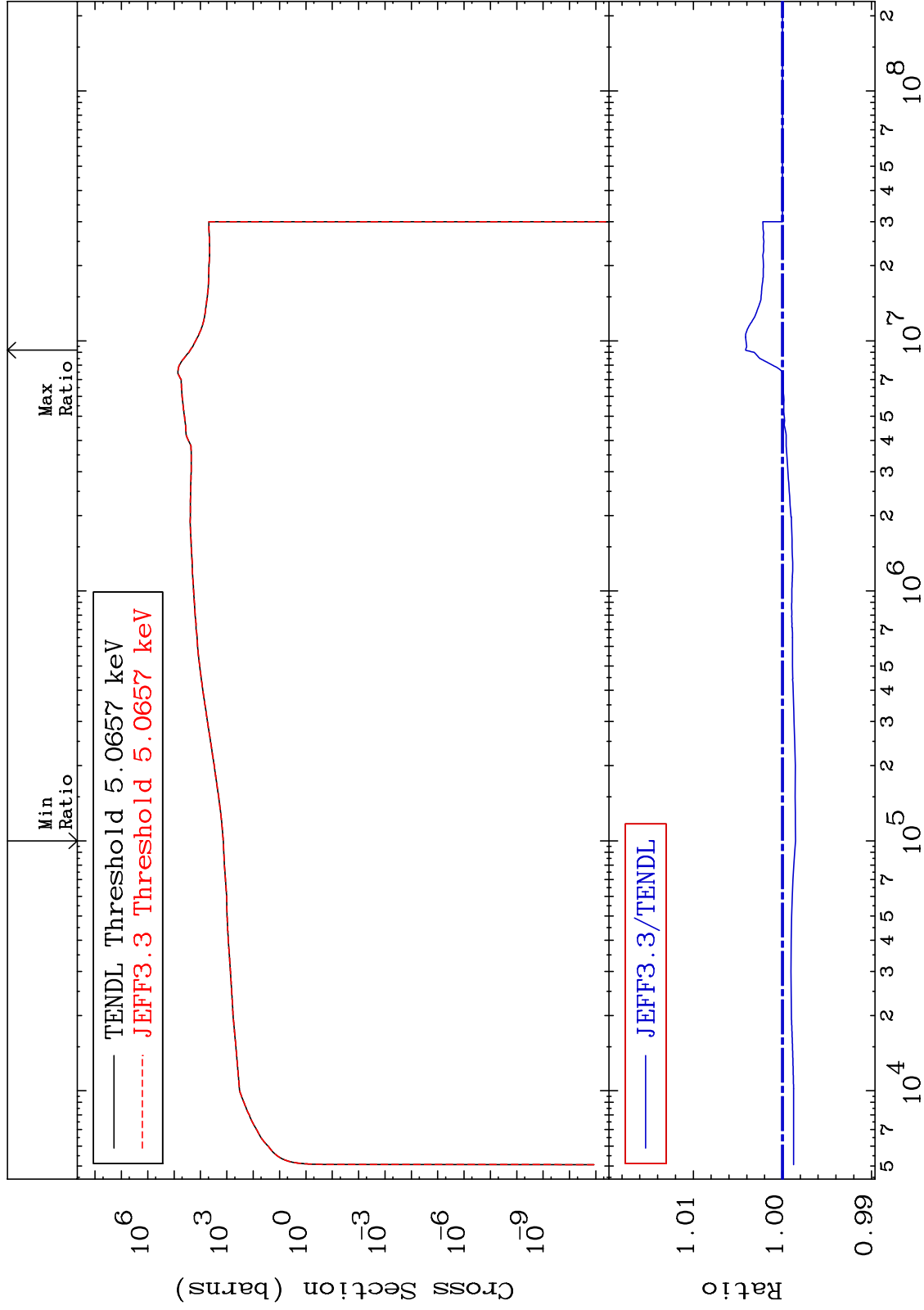
74

69-Tm-171

MAT 6931

Dpa inelastic (mt51-91)
Cross Section

69-Tm-171
-0.147 To 0.415 %



75

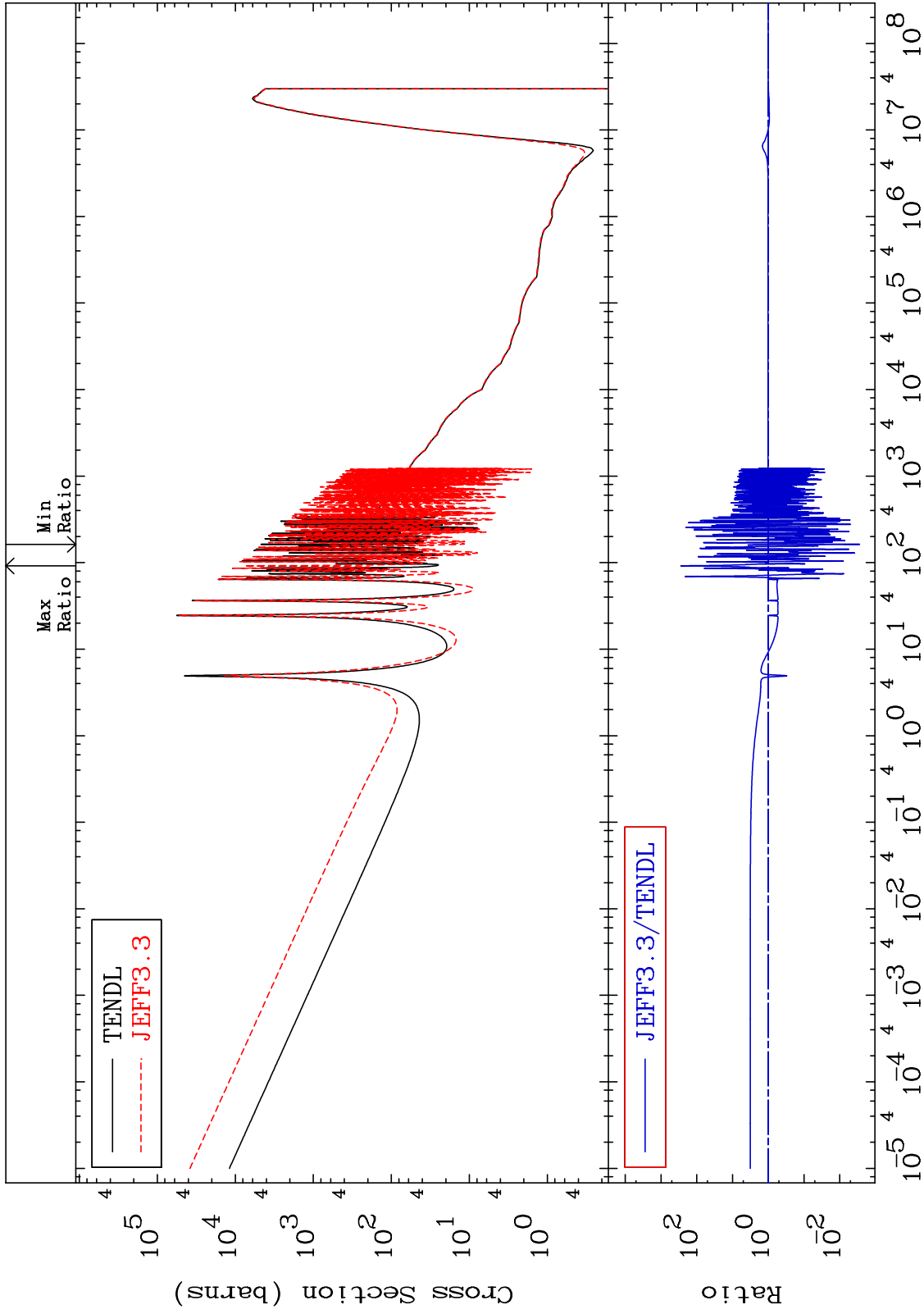
Incident Energy (eV)

69-Tm-171

MAT 6931

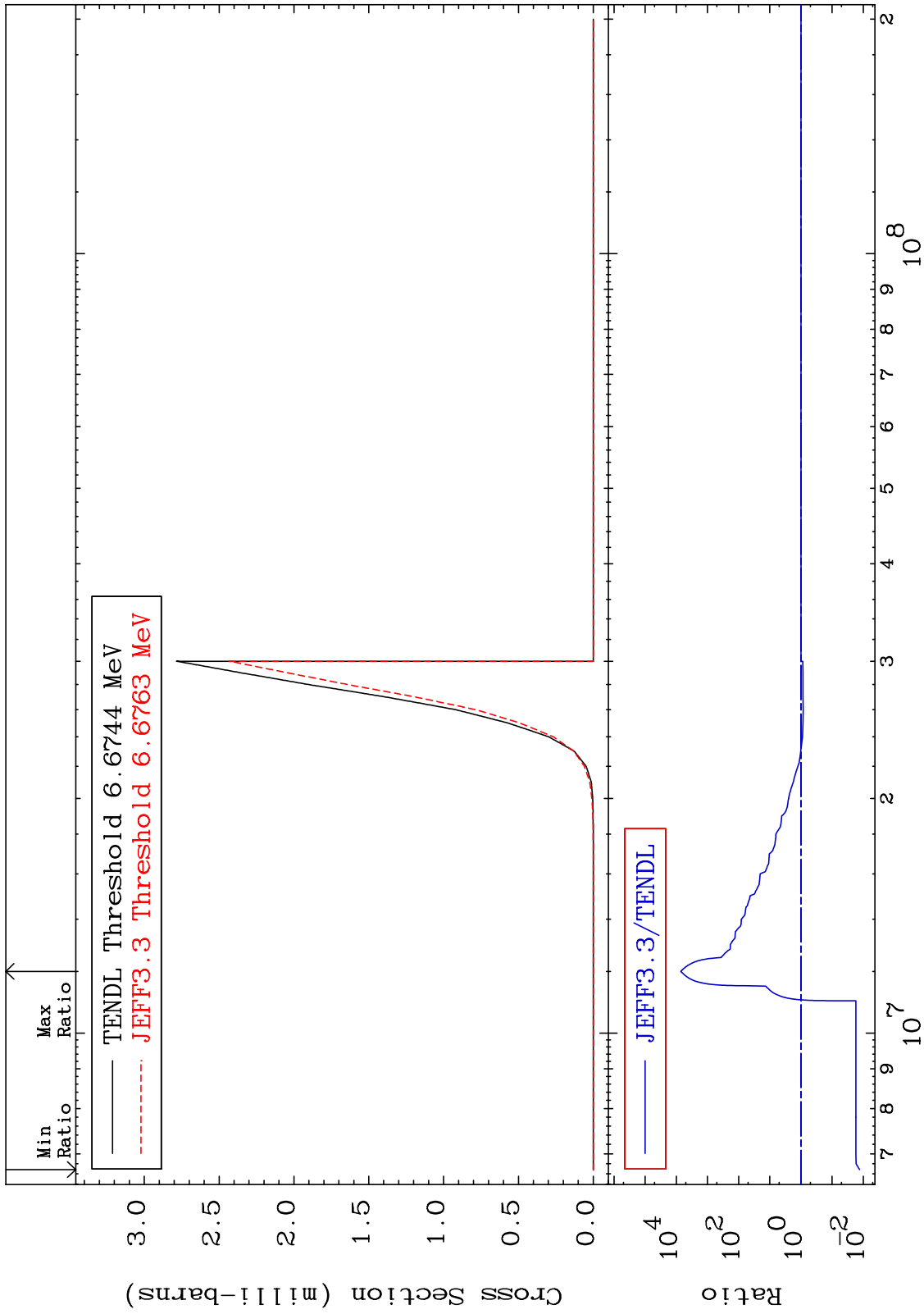
Dpa disappearance (mt102 -120)
Cross Section

69-Tm-171
-99.72 To 9999. %



MAT 6931

(n,2n) α :67-Ho-166g 69-Tm-171
Radionuclide Production Cross Section -98.69 To 9999. %



77

Incident Energy (eV)

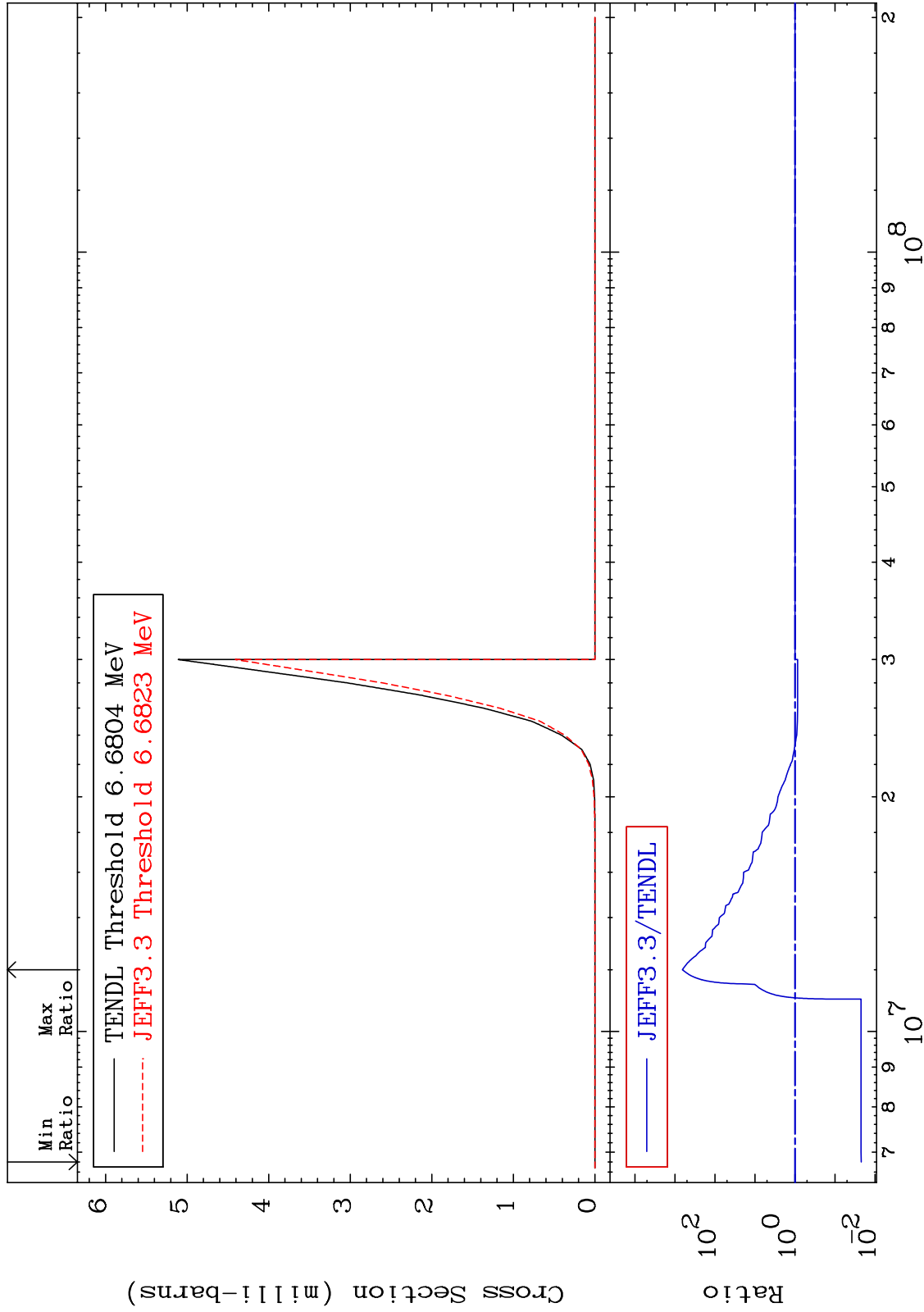
69-Tm-171

MAT 6931

(n,2n) α :67-Ho-166m1

69-Tm-171

Radionuclide Production Cross Section -97.79 To 9999. %



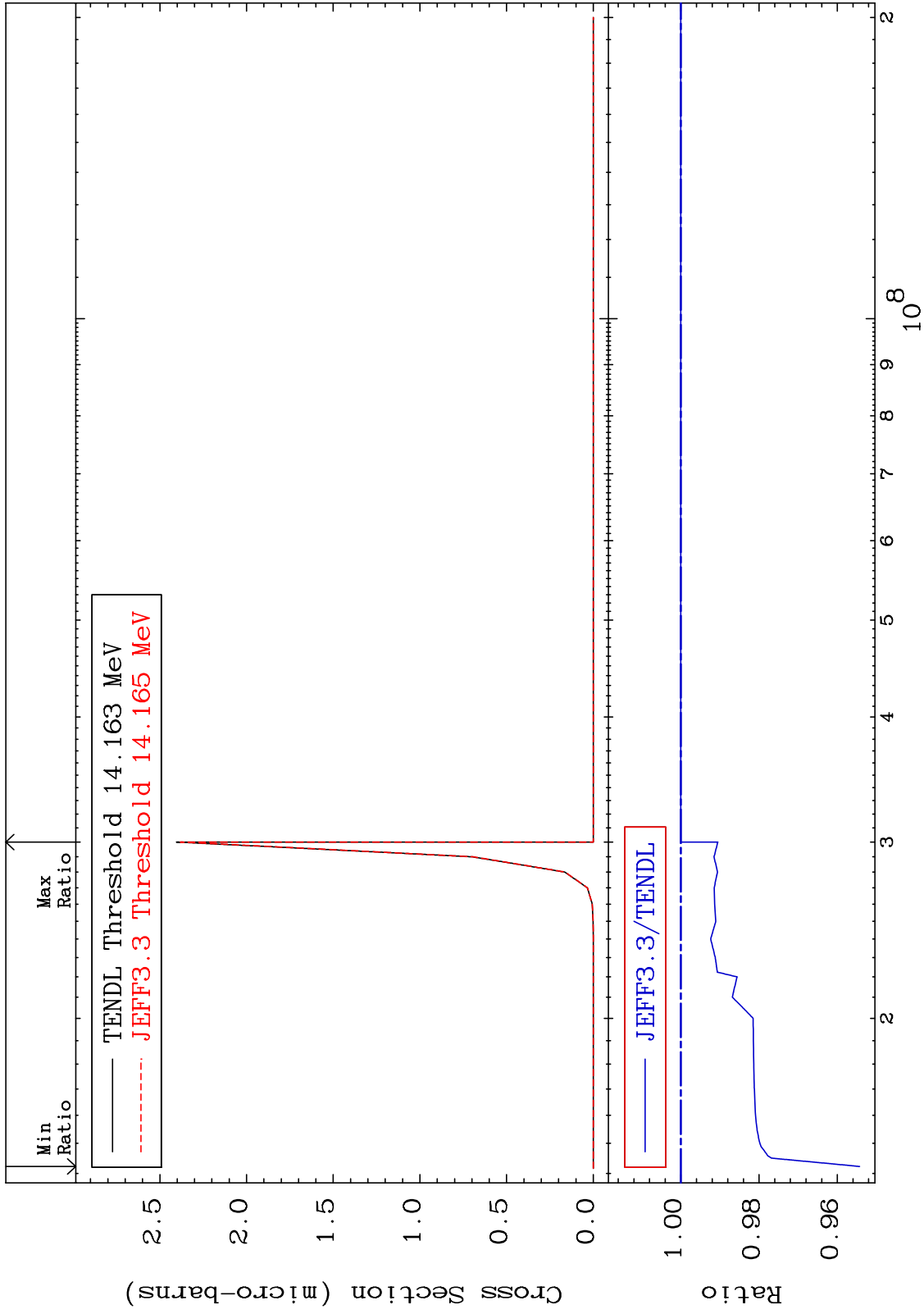
78

Incident Energy (eV)

69-Tm-171

MAT 6931

(n,n') He-3:67-Ho-168g 69-Tm-171
Radionuclide Production Cross Section -4.569 To 0.000 %

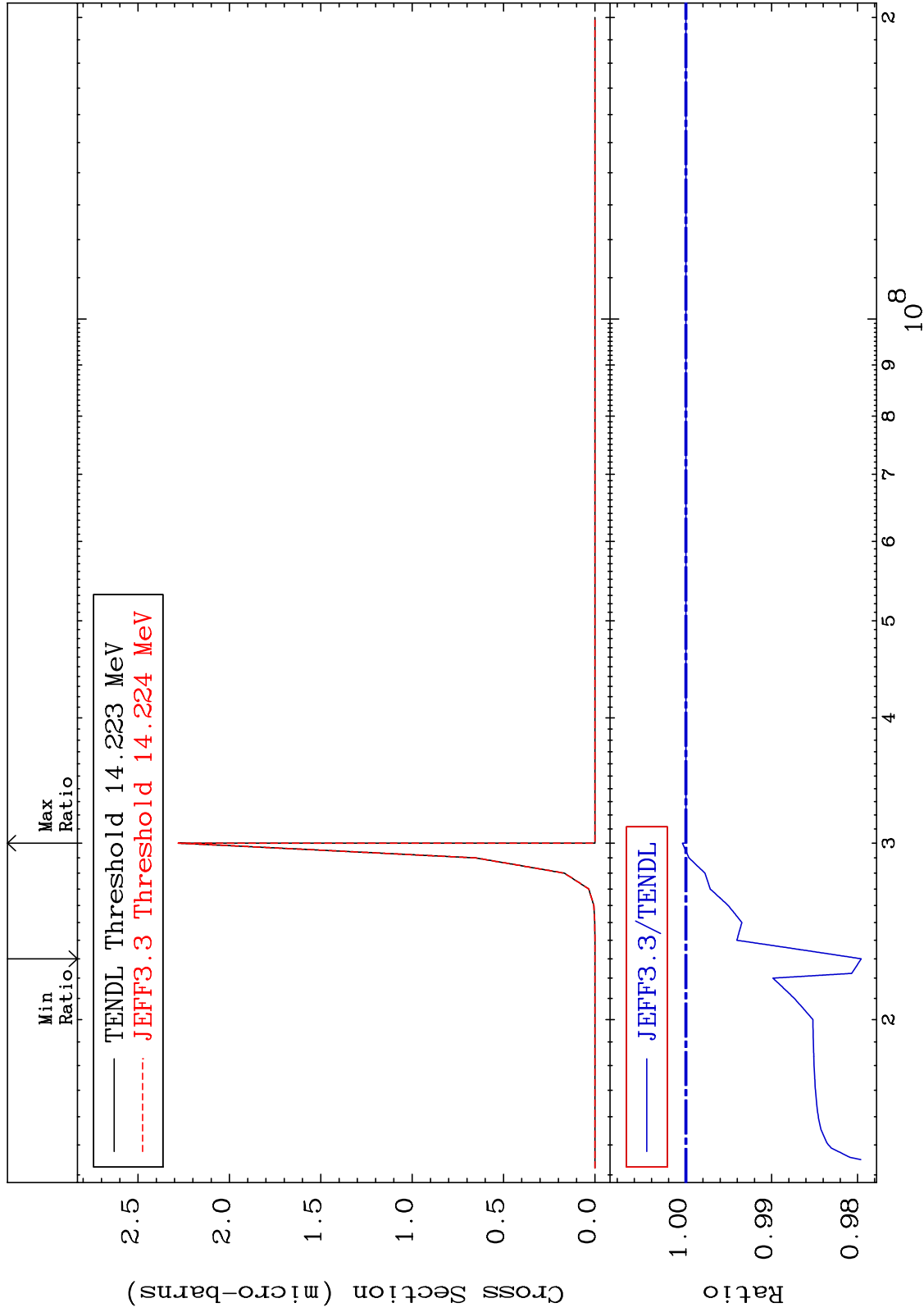


MAT 6931

(n, n') He-3:67-Ho-168m1

69-Tm-171

Radionuclide Production Cross Section -2.044 To 0.040 %



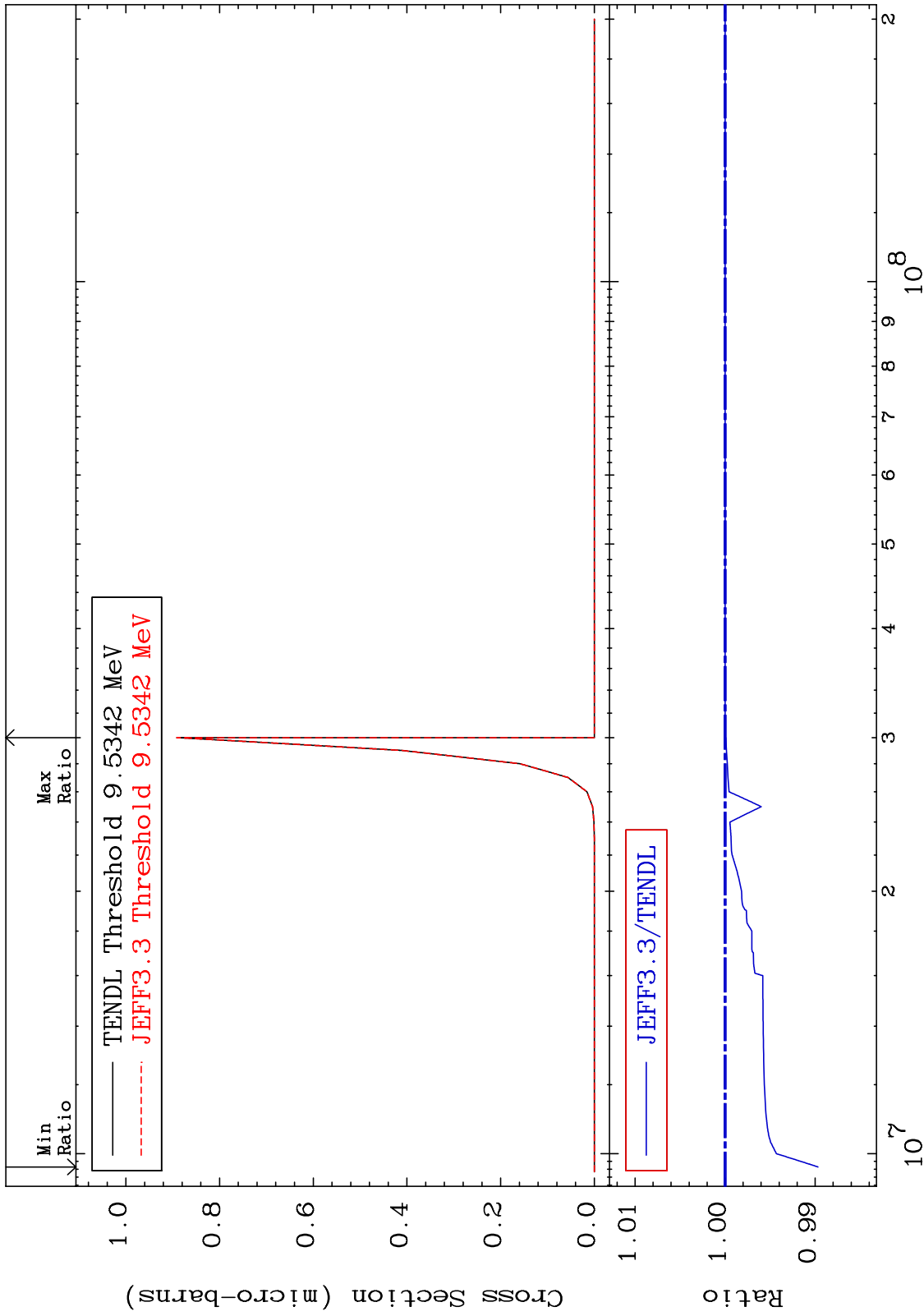
80

Incident Energy (eV)

69-Tm-171

MAT 6931

(n,2p):67-Ho-170g 69-Tm-171
Radionuclide Production Cross Section -1.032 To 0.000 %



81

Incident Energy (eV)

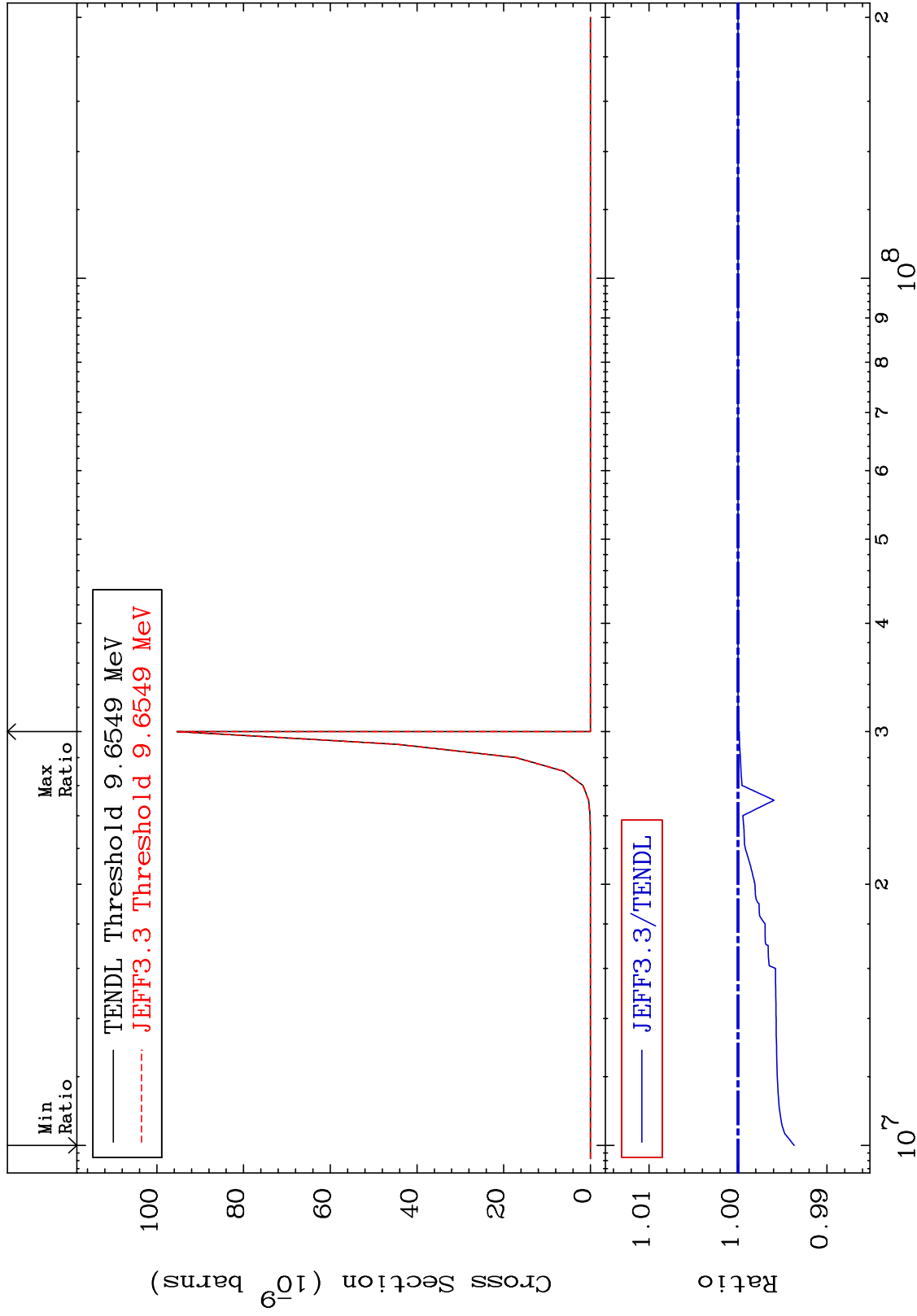
69-Tm-171

MAT 6931

(n,2p):67-Ho-170m1

69-Tm-171

Radionuclide Production Cross Section -0.630 To 0.000 %



82

Incident Energy (eV)

69-Tm-171