

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

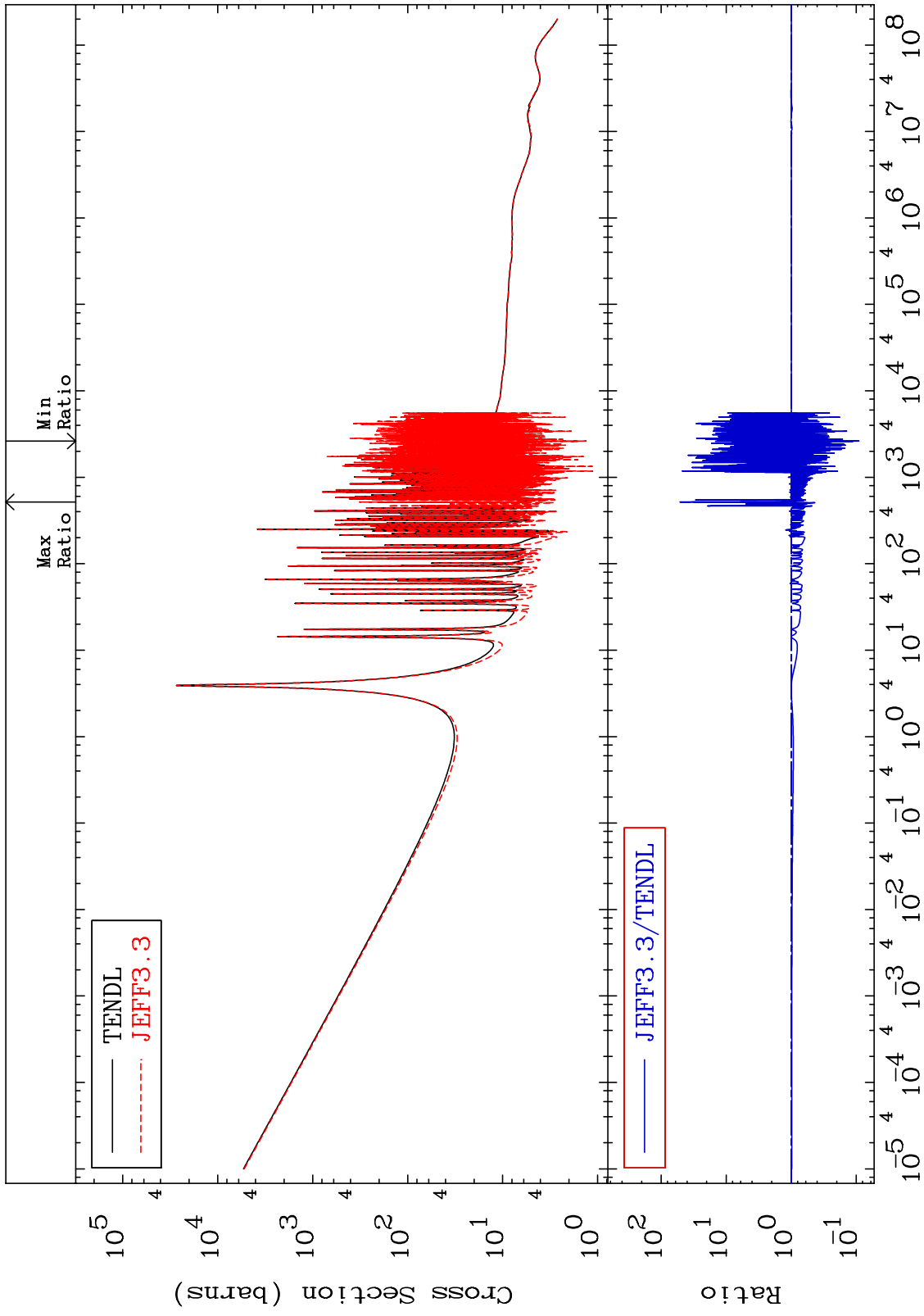
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6925

Total
Cross Section

69-Tm-169
-90.87 To 4997. %



1

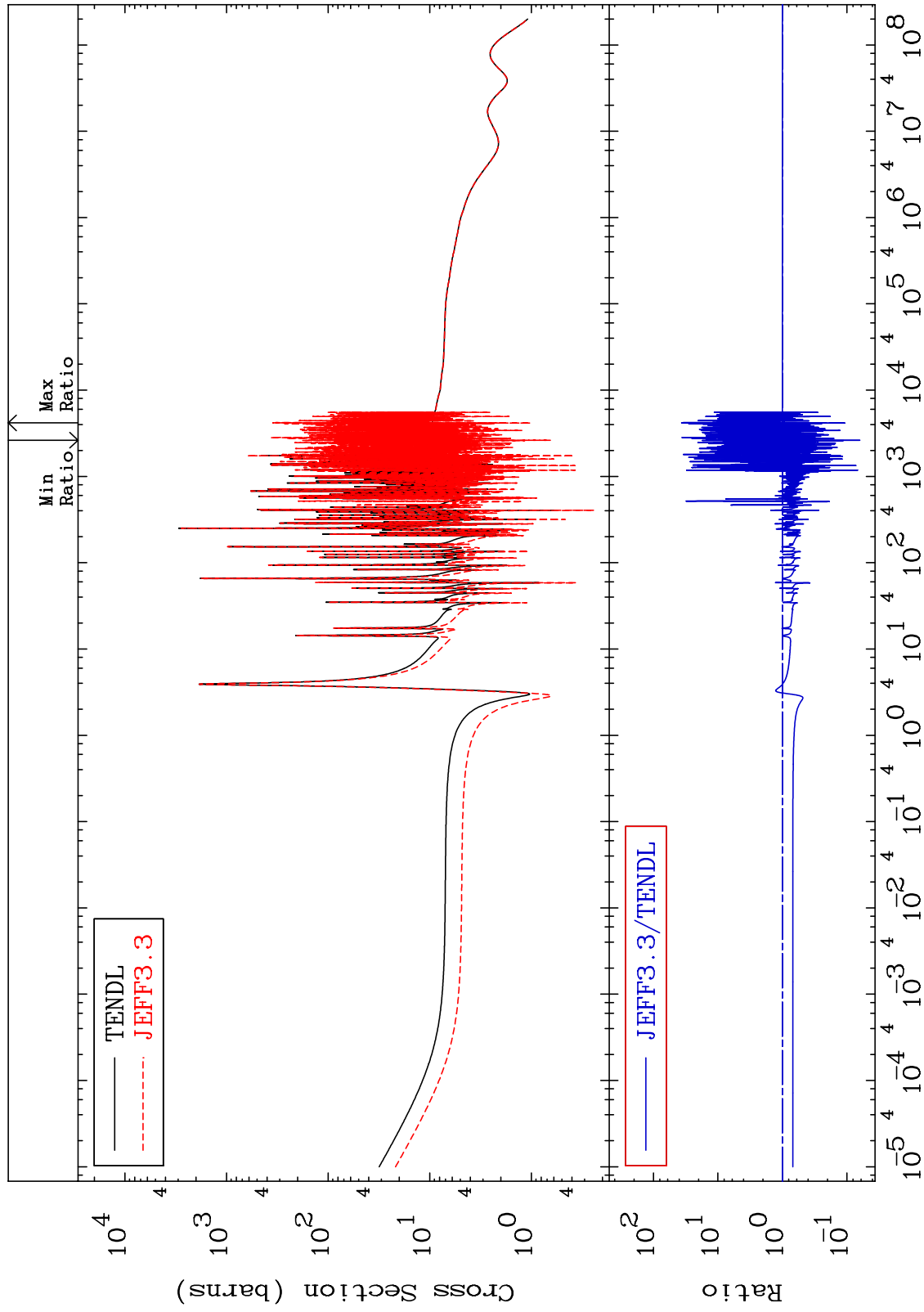
Incident Energy (eV)

69-Tm-169

MAT 6925

Elastic
Cross Section

69-Tm-169
-93.72 To 3578. %

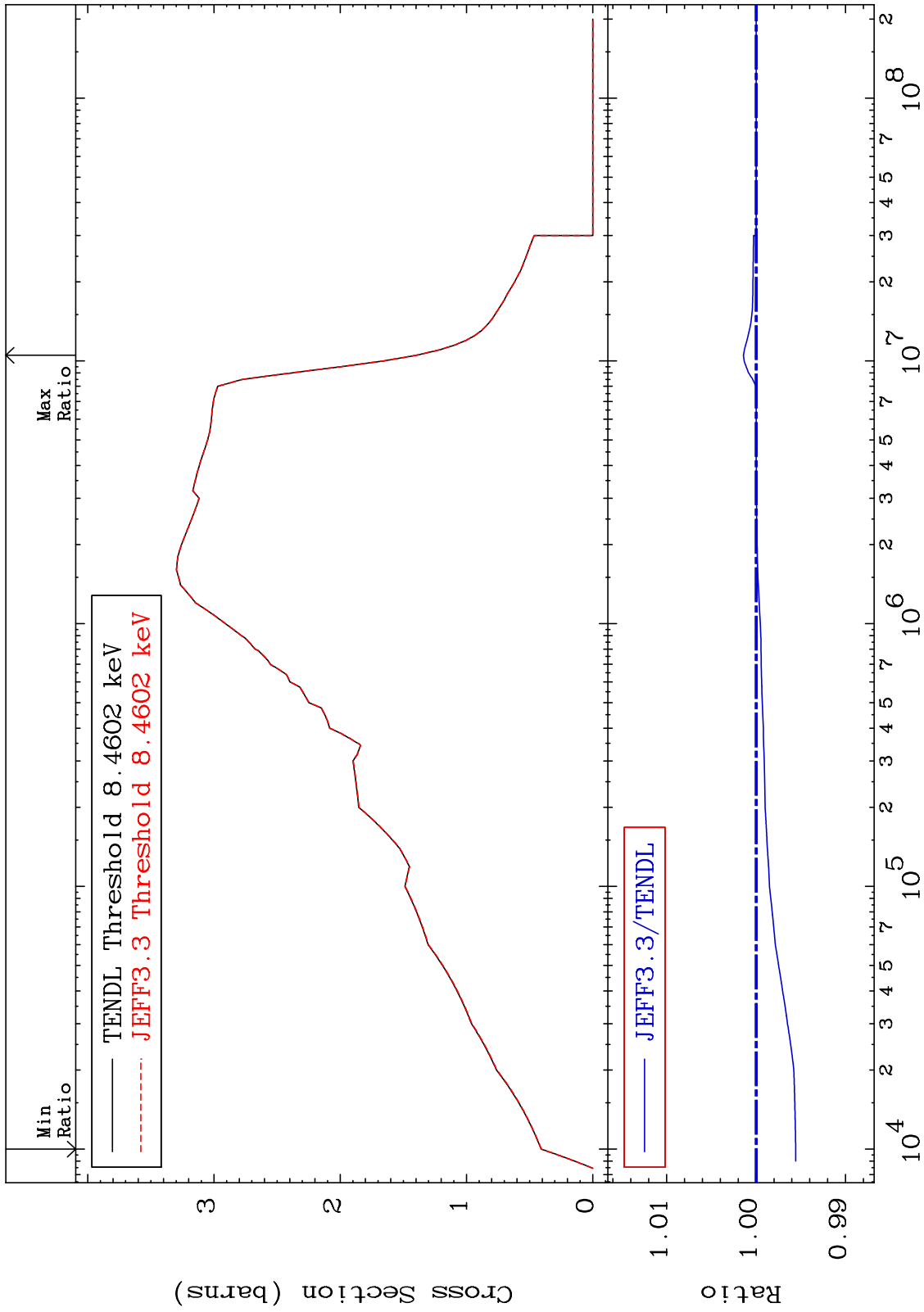


2

Incident Energy (eV)

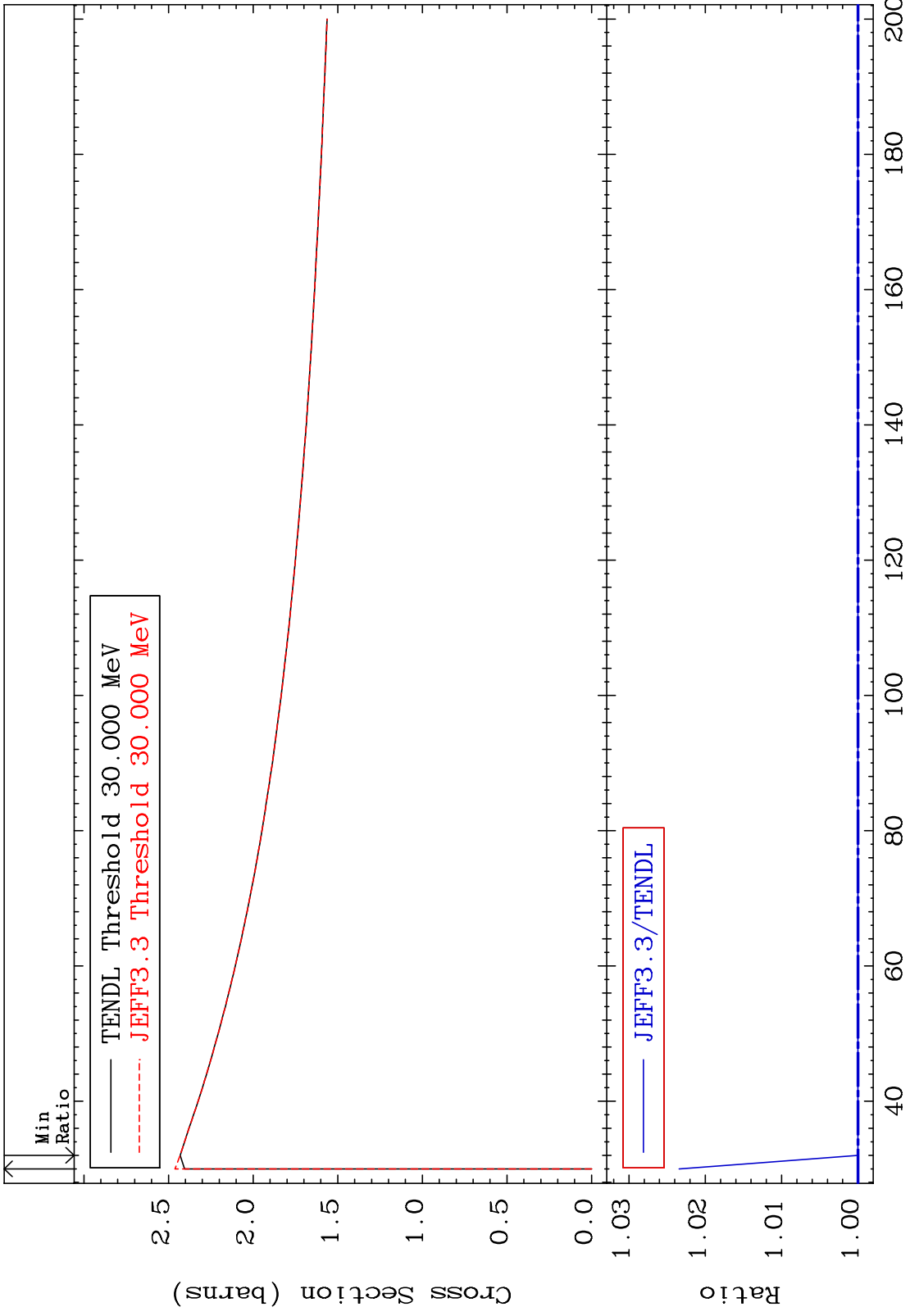
69-Tm-169

MAT 6925 Inelastic Cross Section 69-Tm-169 -0.443 To 0.142 %

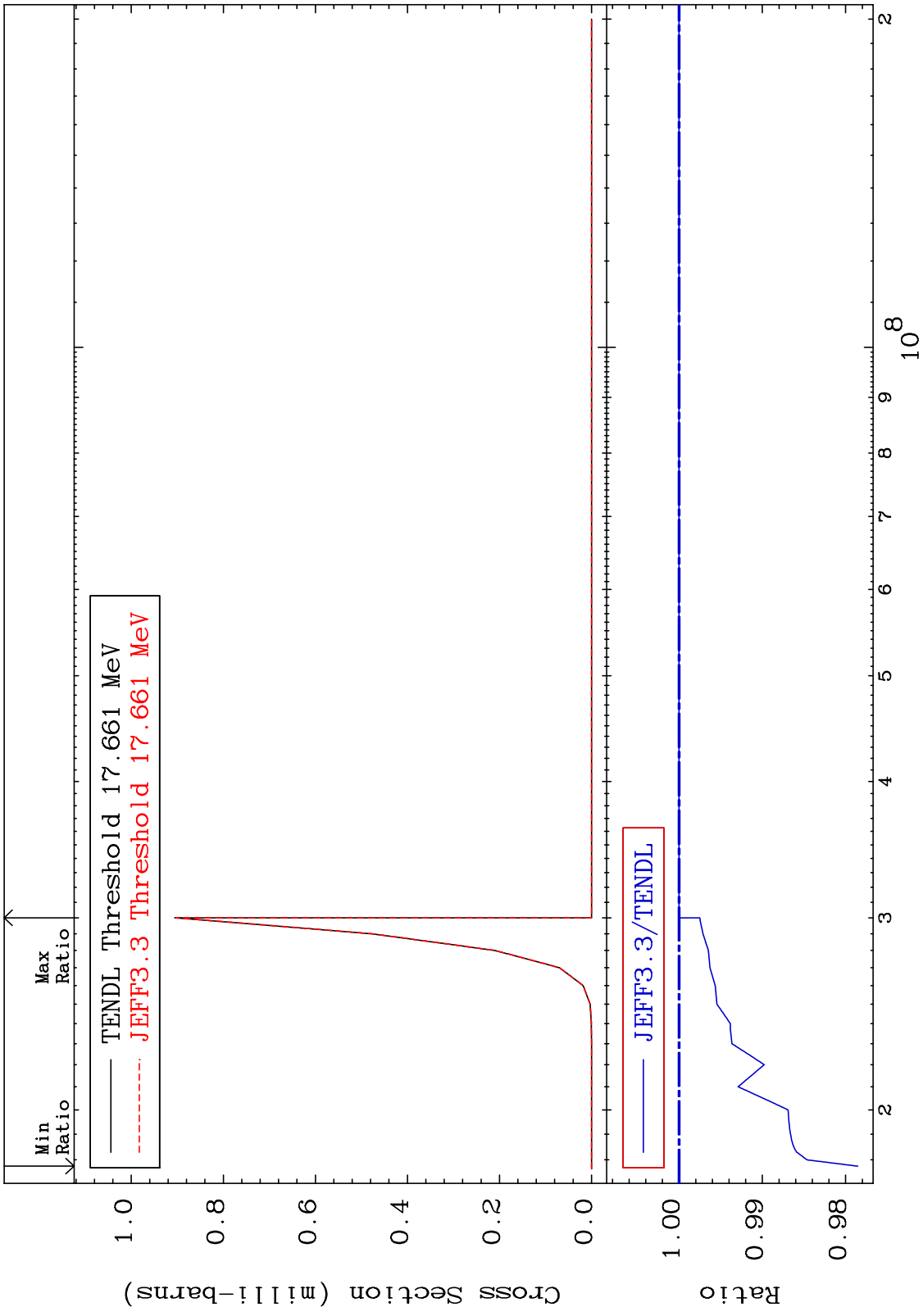


69-Tm-169

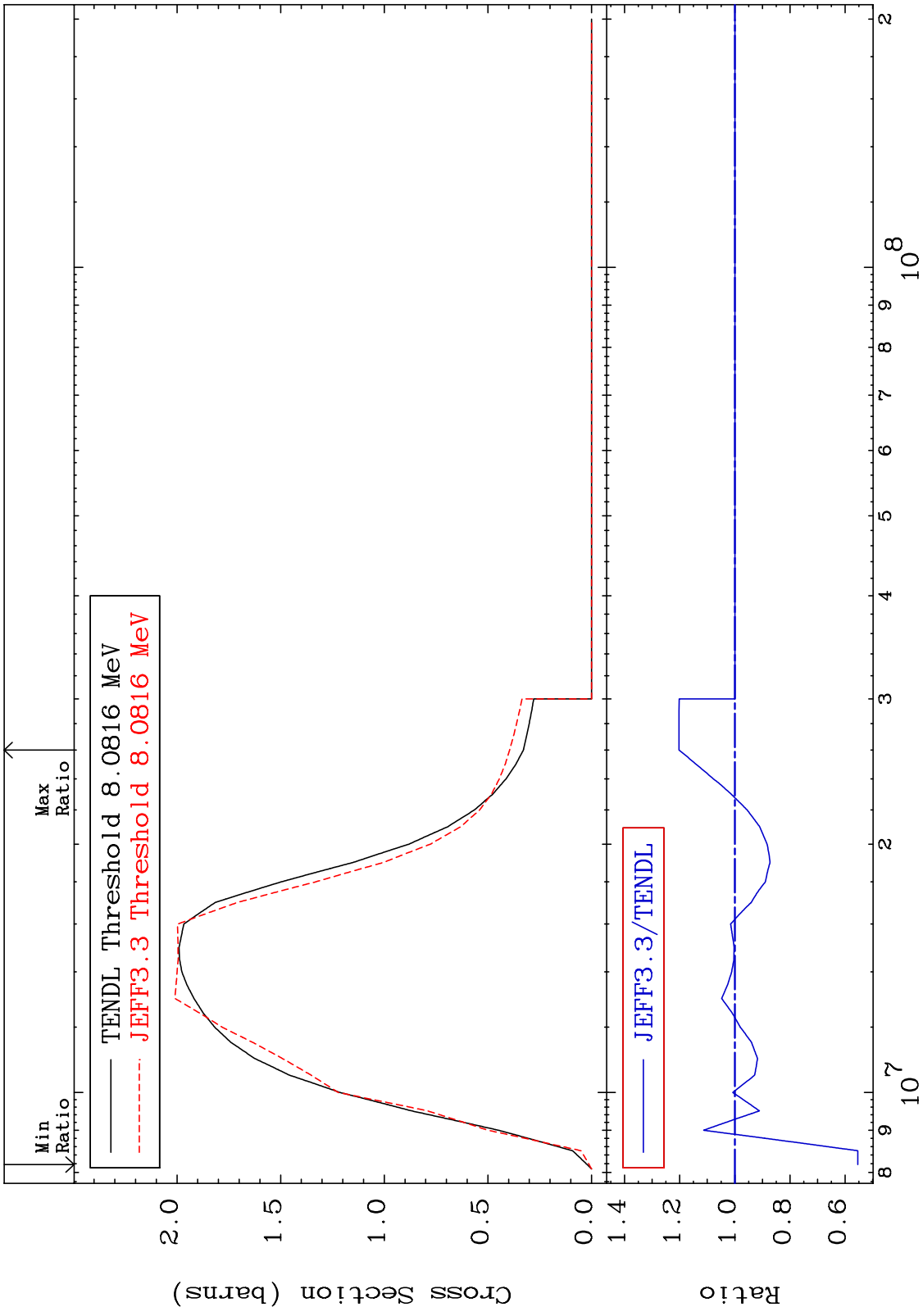
MAT 6925 (n, remainder) Cross Section 69-Tm-169 To 2.342 %



MAT 6925 (n,2n) d 69-Tm-169
 Cross Section -2.147 To 0.000 %

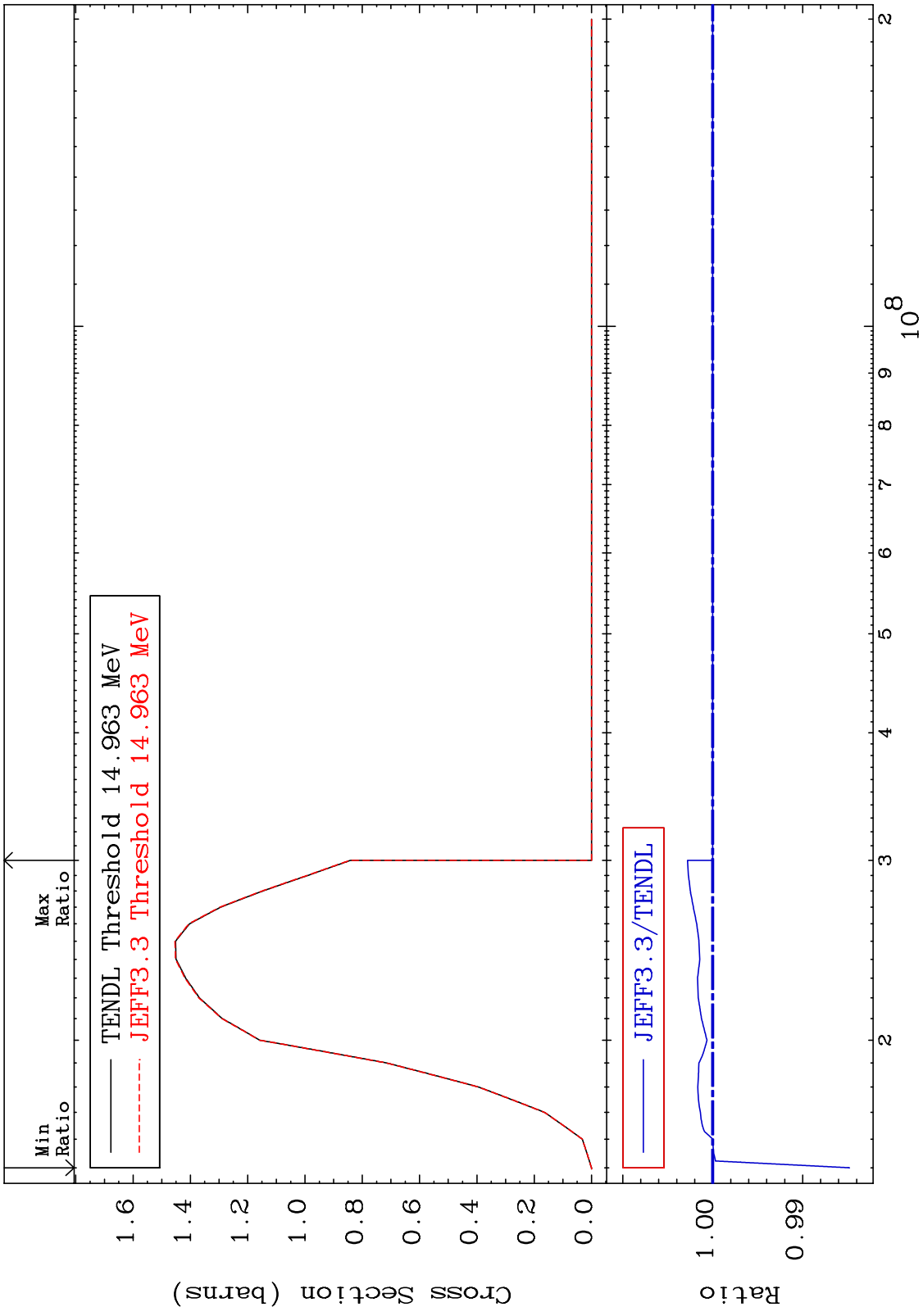


MAT 6925 (n,2n) Cross Section 69-Tm-169 -44.60 To 20.24 %



69-Tm-169

MAT 6925 (n,3n) Cross Section 69-Tm-169 -1.520 To 0.281 %



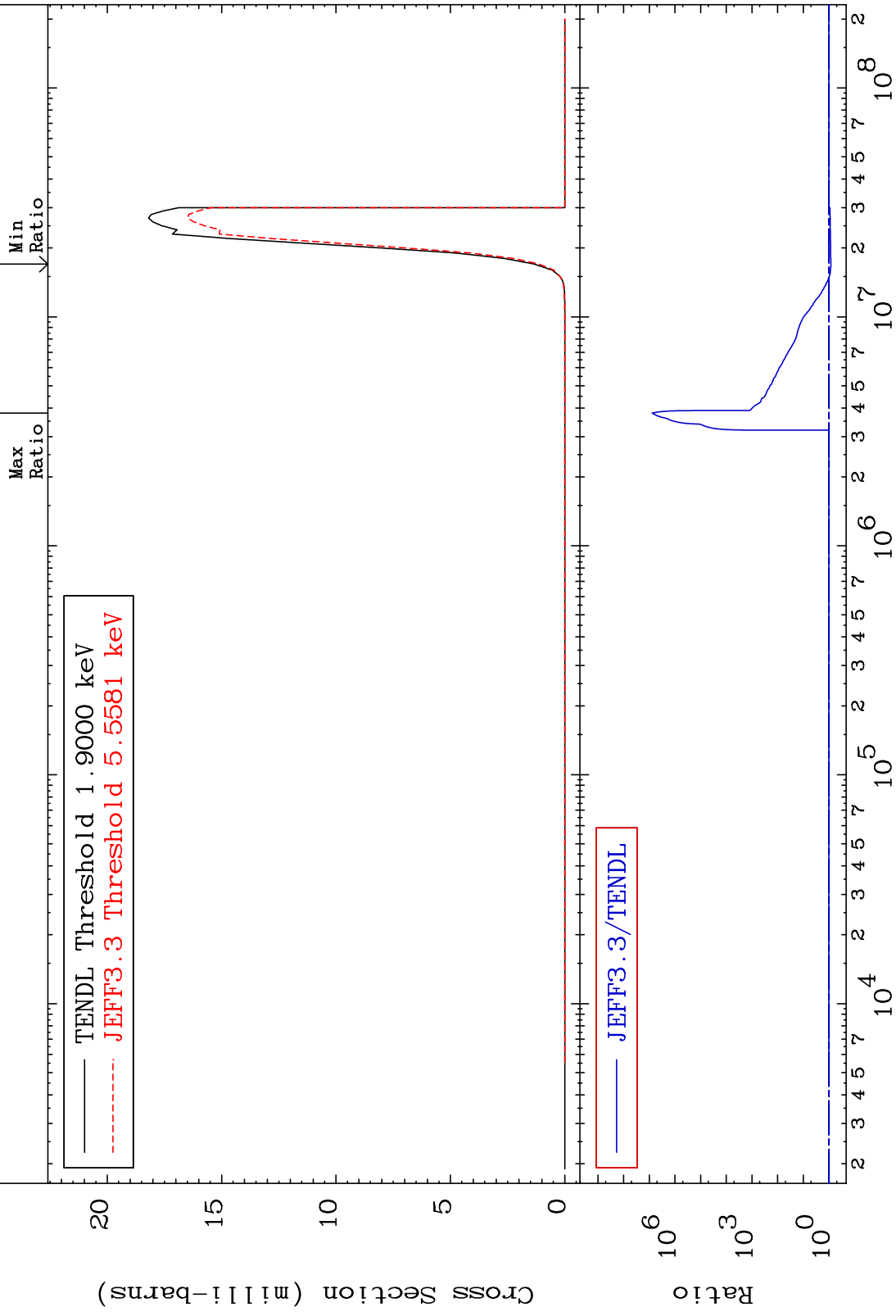
MAT 6925

(n, n') α

69-Tm-169

-15.70 To 9999. %

Cross Section



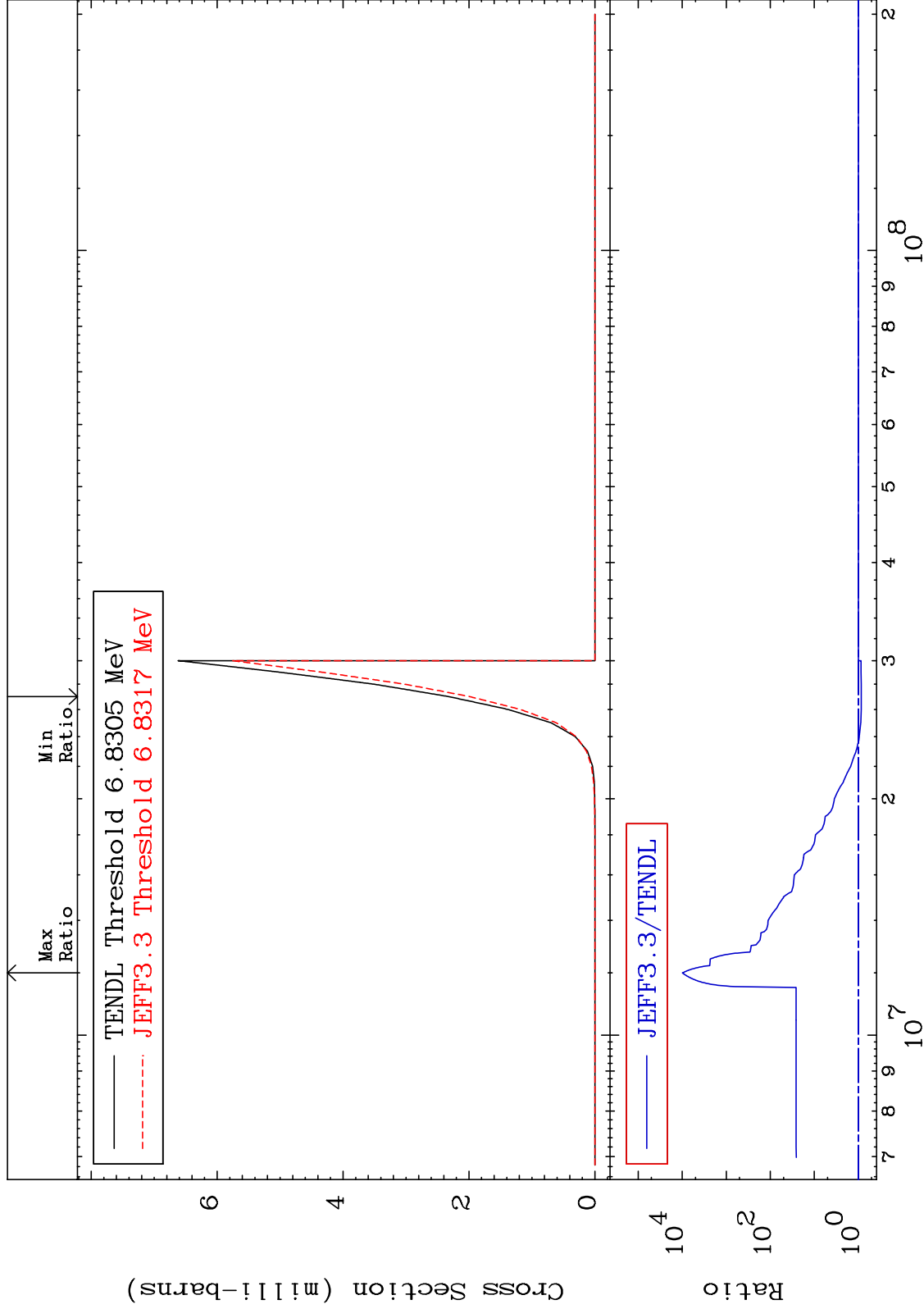
MAT 6925

(n,2n) α

69-Tm-169

-14.30 To 9999. %

Cross Section

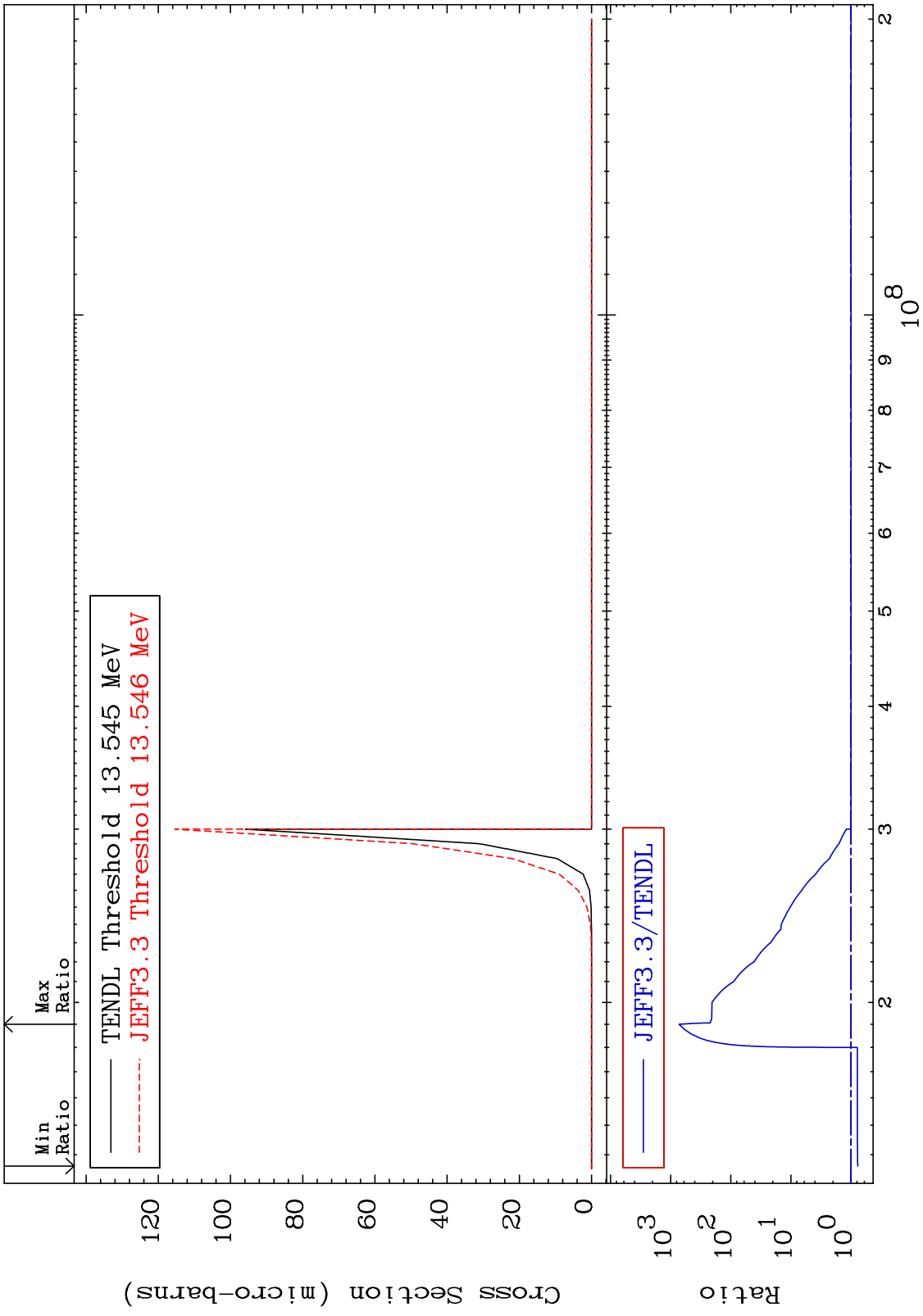


9

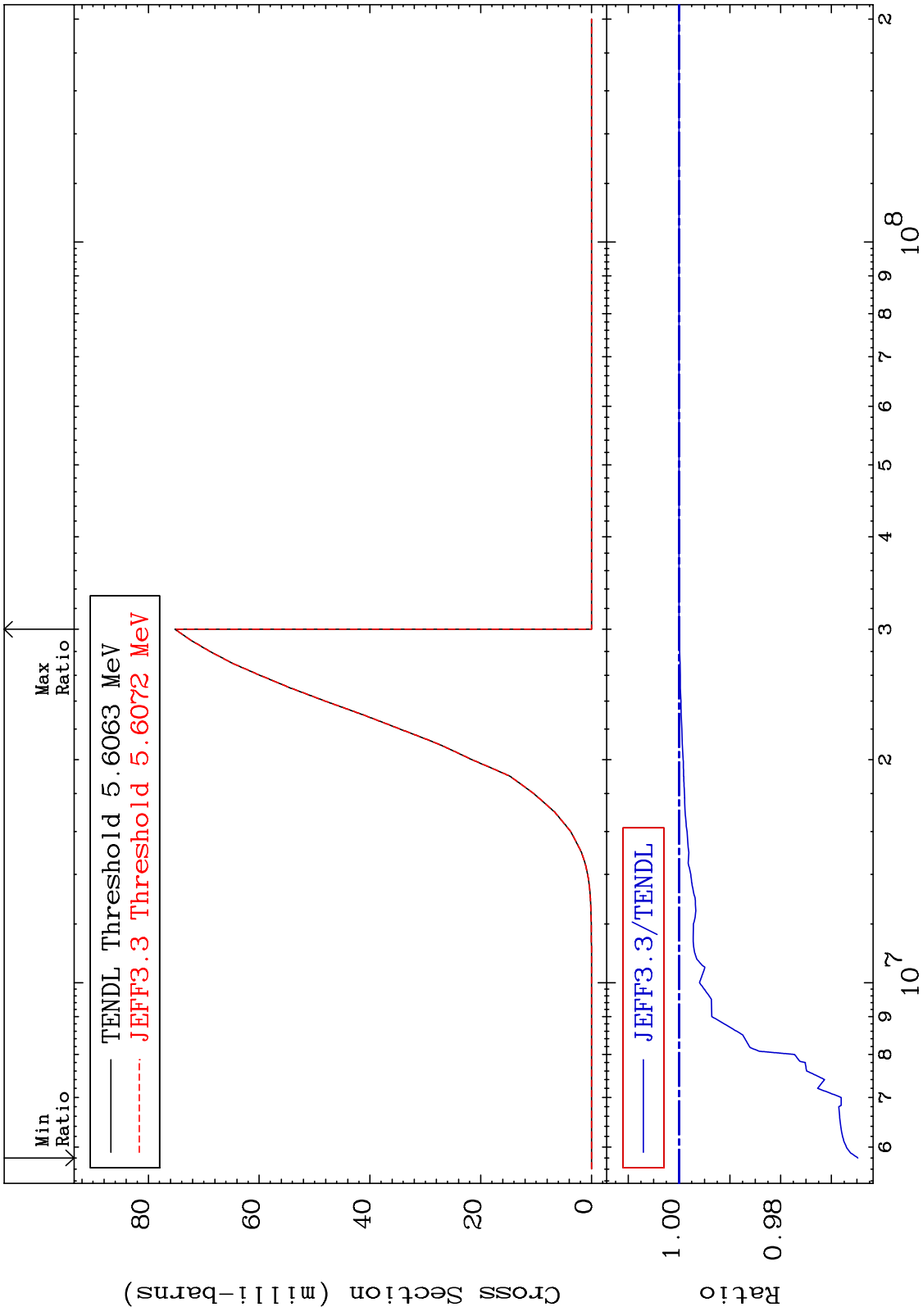
Incident Energy (eV)

69-Tm-169

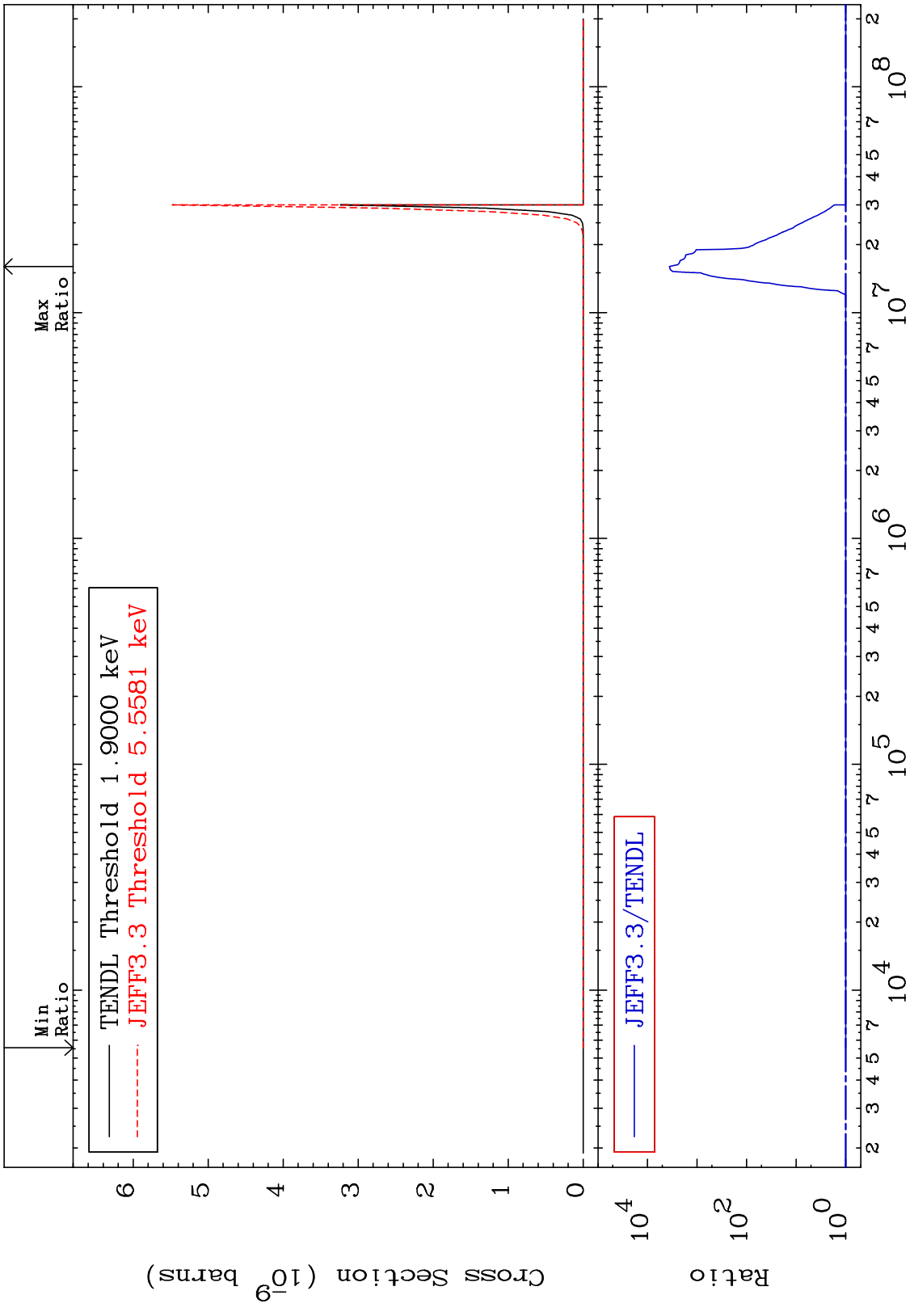
MAT 6925 (n,3n) α 69-Tm-169
 Cross Section -22.76 To 9999. %



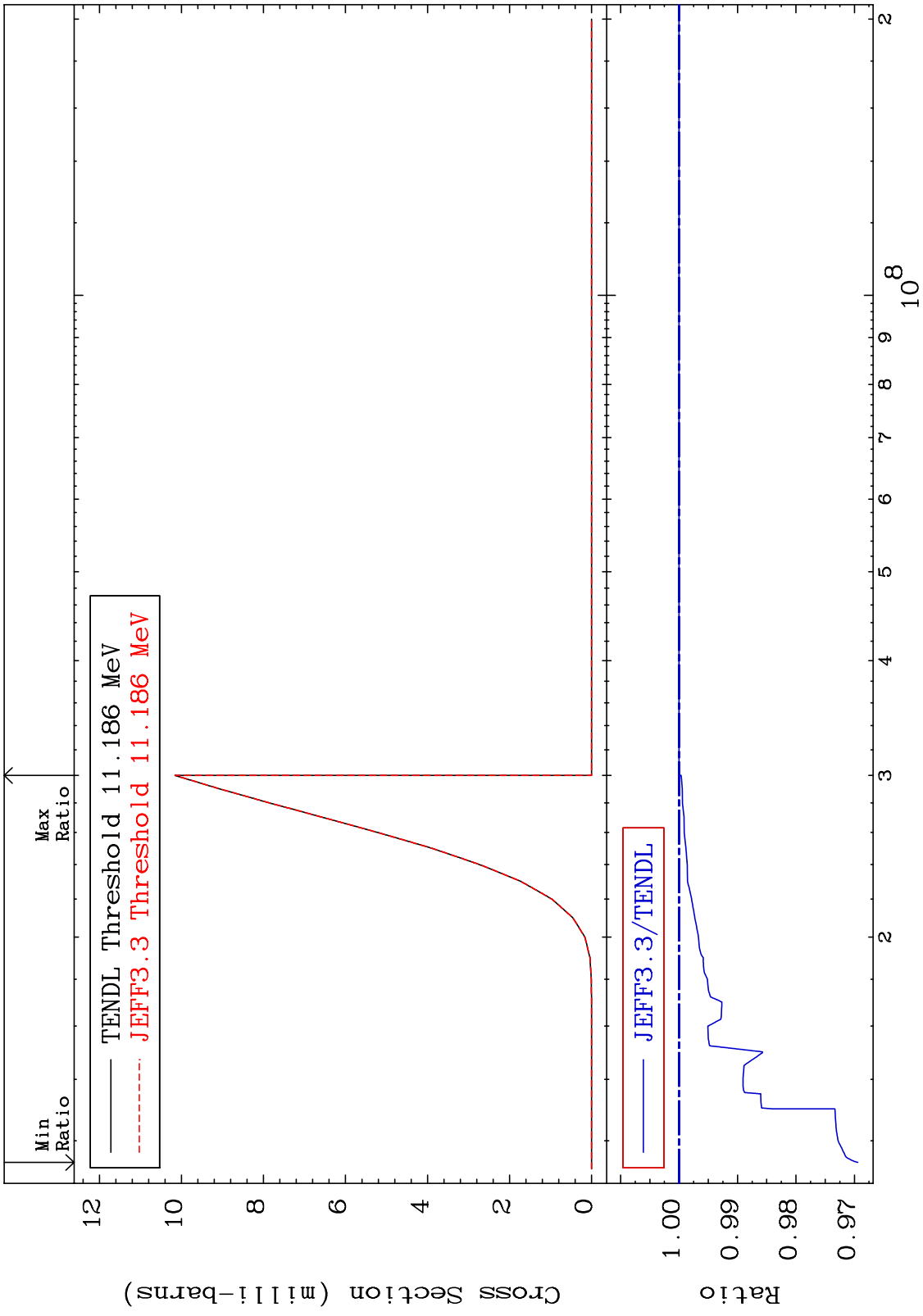
MAT 6925 $^{69}\text{Tm-169}$ (n, n') p Cross Section -3.519 To 0.000 %



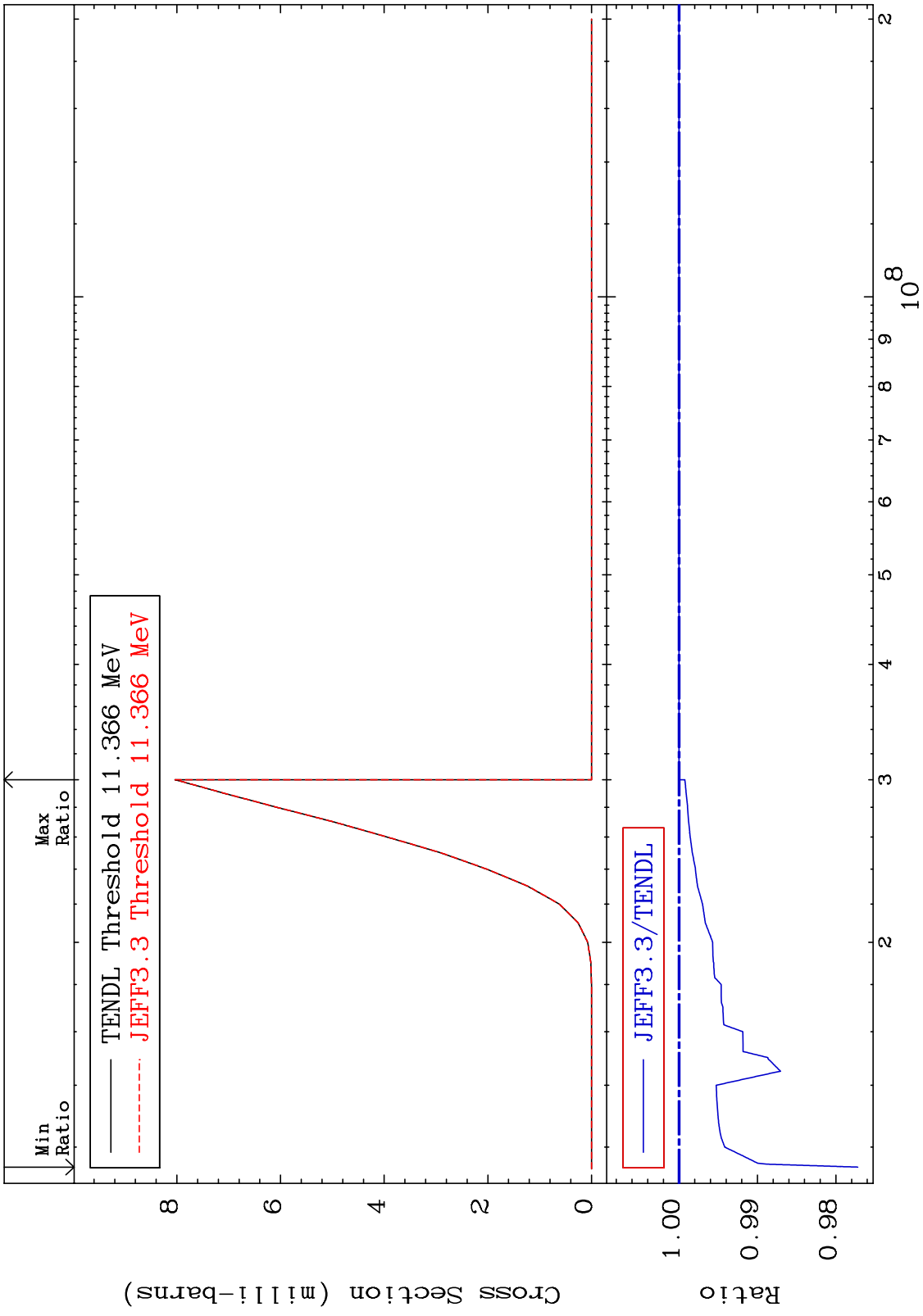
MAT 6925 (n,n') 2α Cross Section 69-Tm-169 To 9999. %



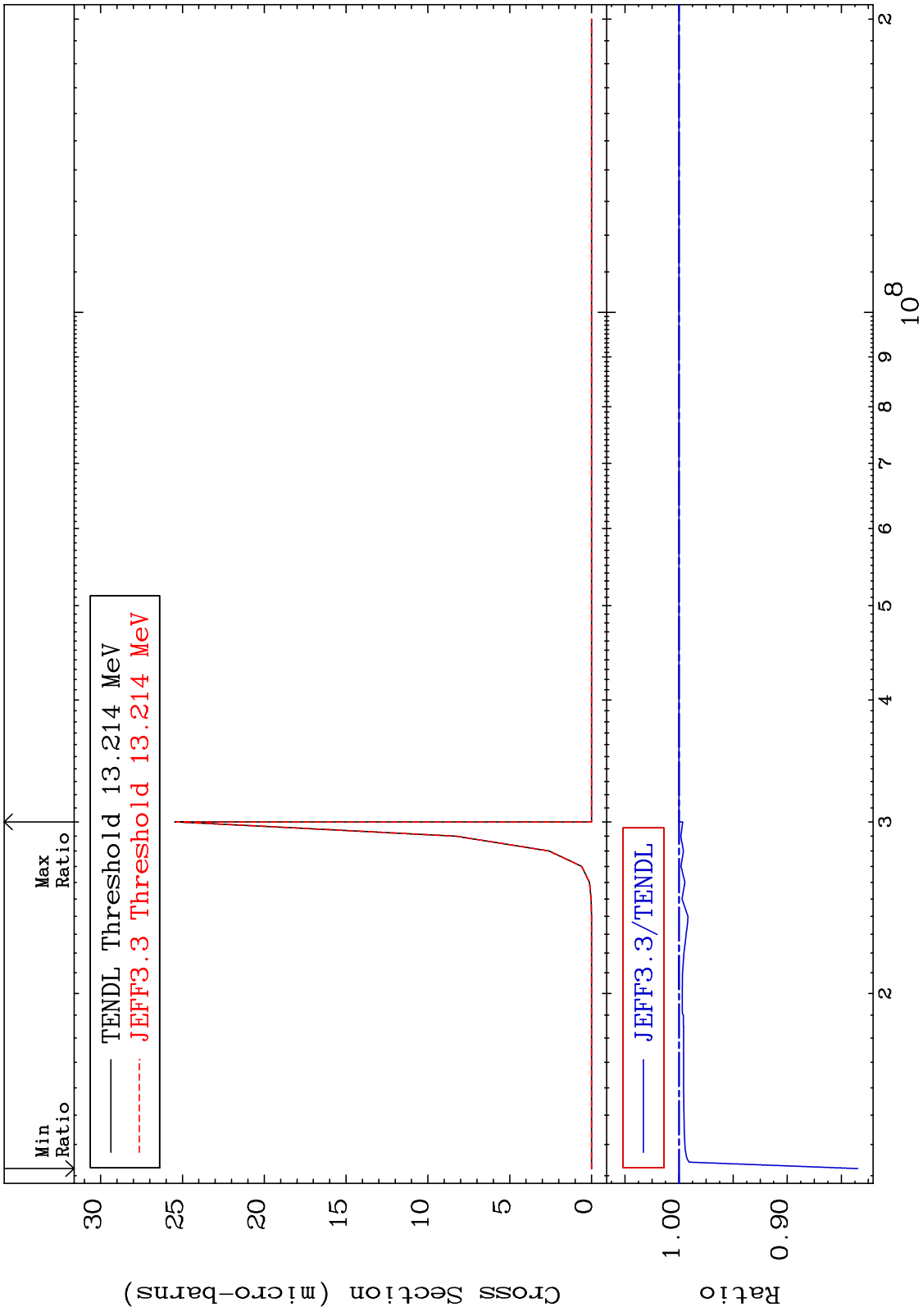
MAT 6925 $(n, n') d$ 69-Tm-169
 Cross Section -3.058 To 0.000 %



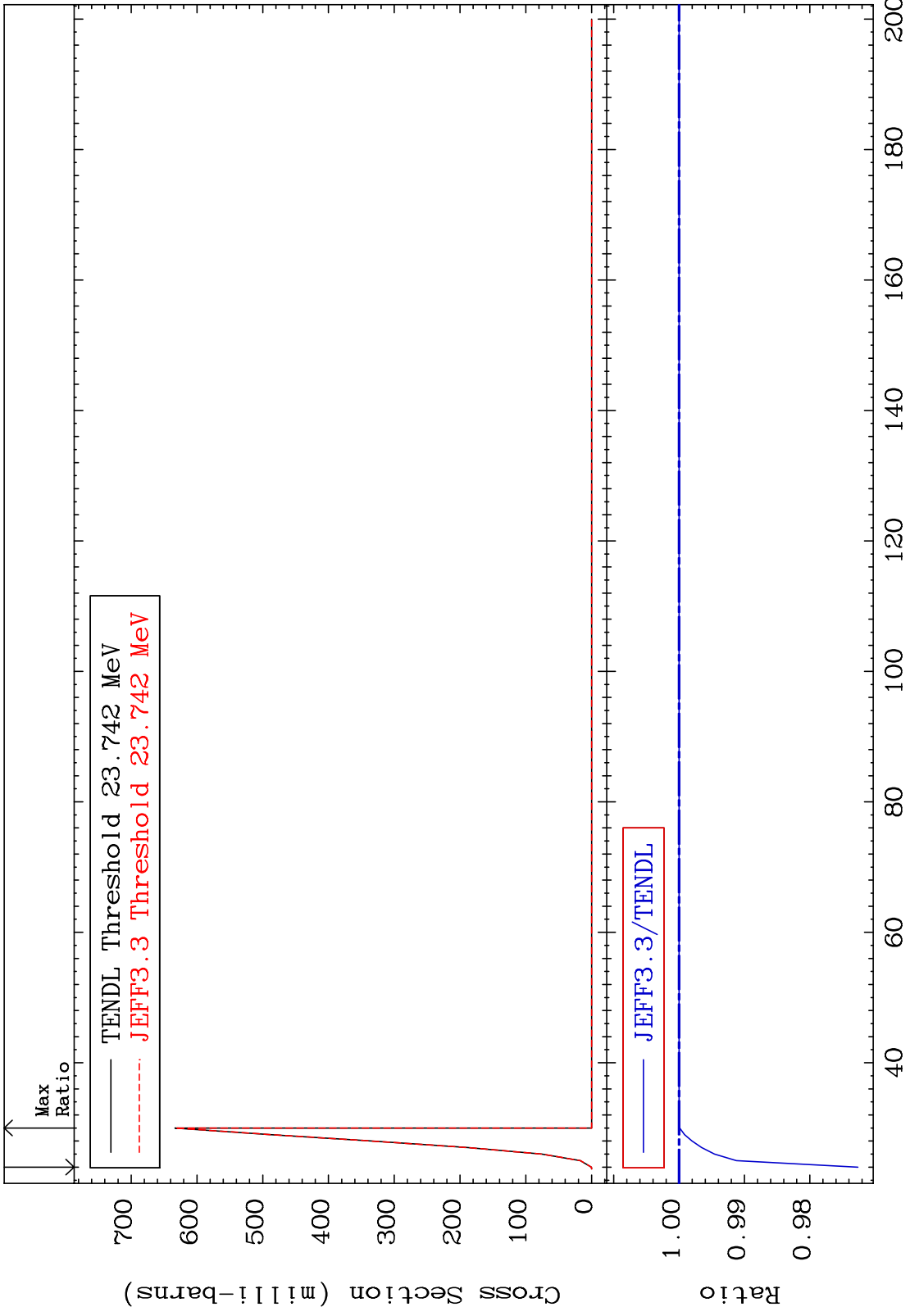
MAT 6925 $(n, n') t$ 69-Tm-169
 Cross Section -2.280 To 0.000 %



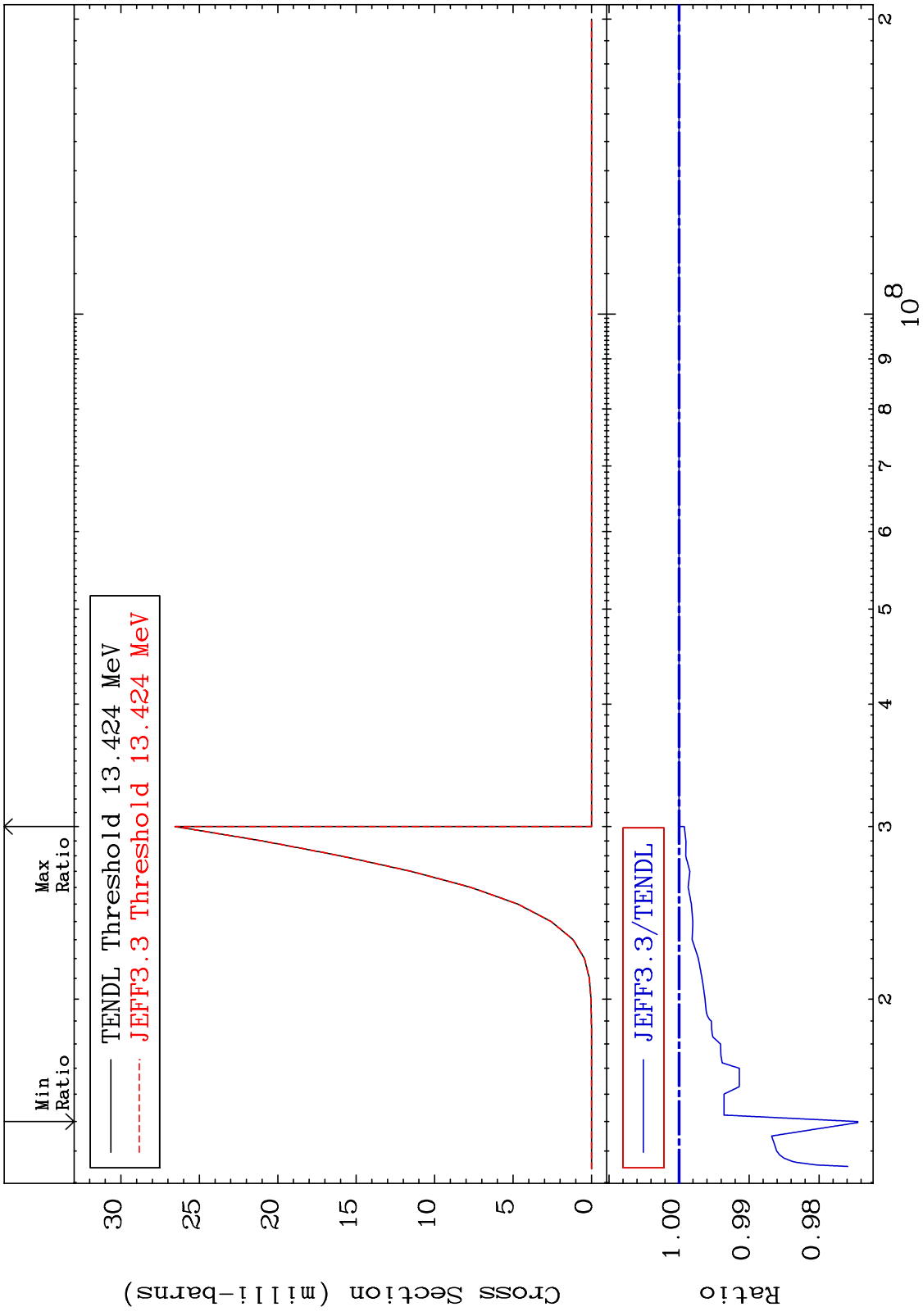
MAT 6925 (n, n') He-3 69-Tm-169
 Cross Section -16.52 To 0.000 %



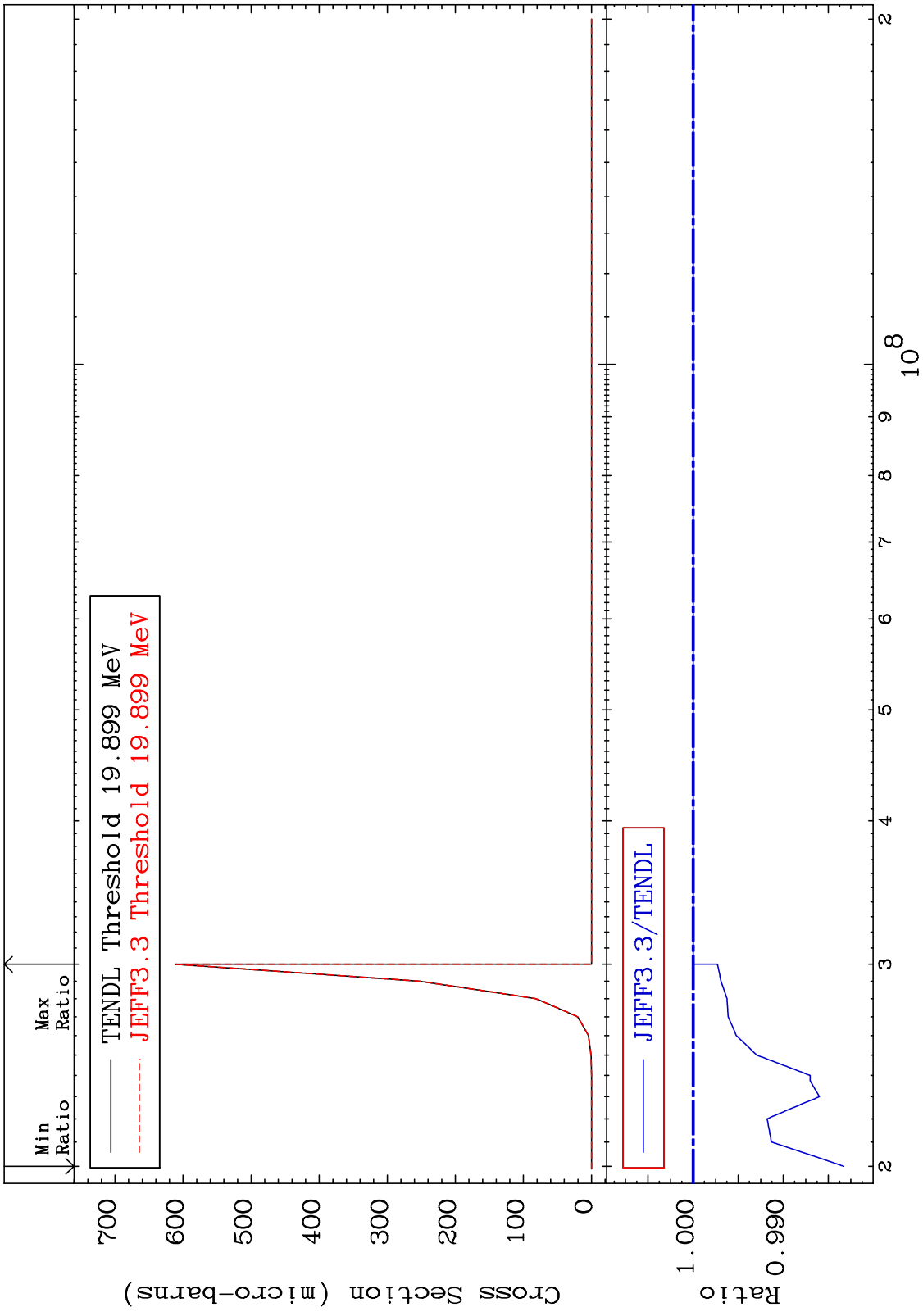
MAT 6925 (n,4n) Cross Section 69-Tm-169 -2.736 To 0.000 %



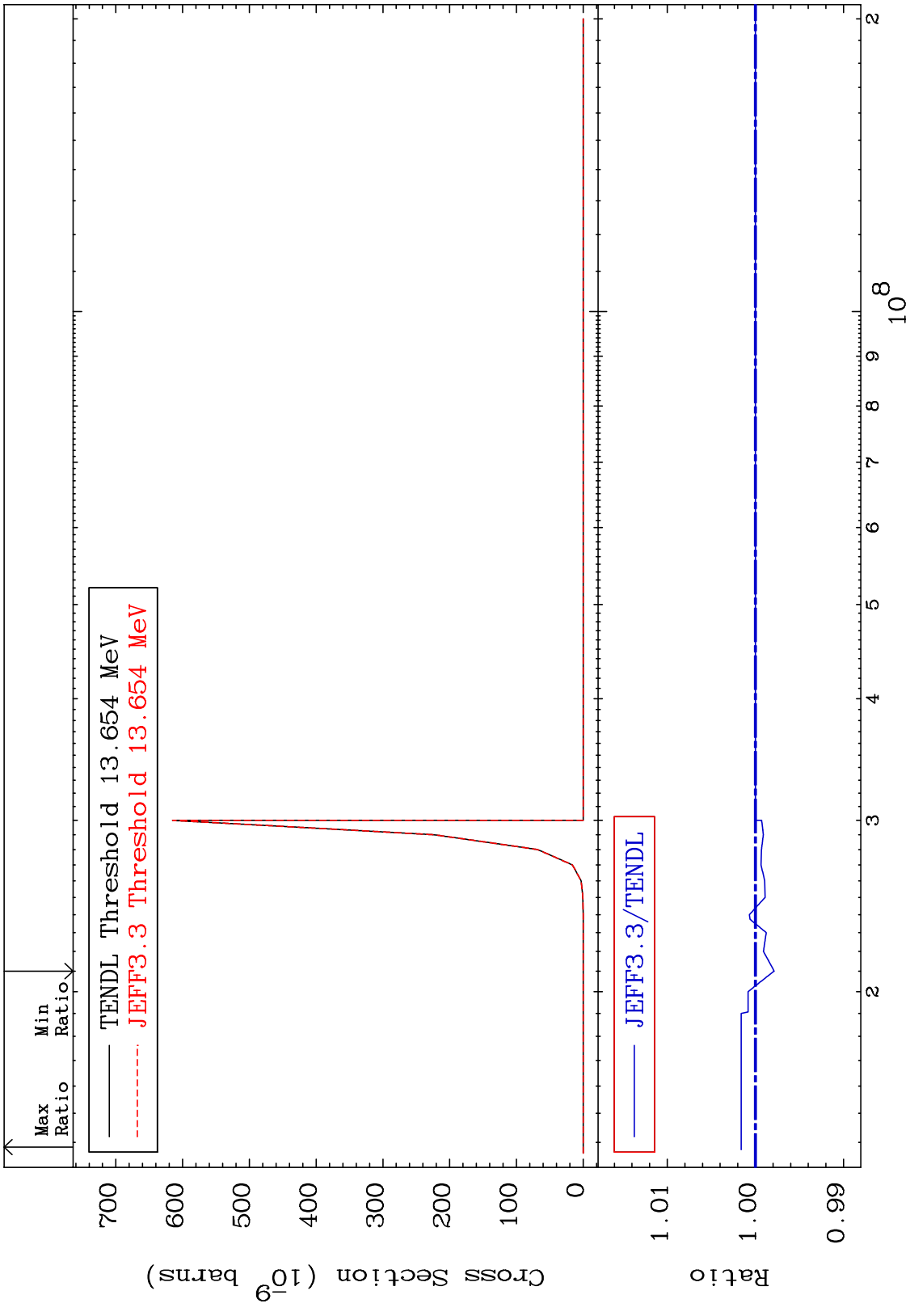
MAT 6925 (n,2n) p 69-Tm-169
 Cross Section -2.553 To 0.000 %



MAT 6925 (n,3n) p 69-Tm-169
 Cross Section -1.671 To 0.000 %



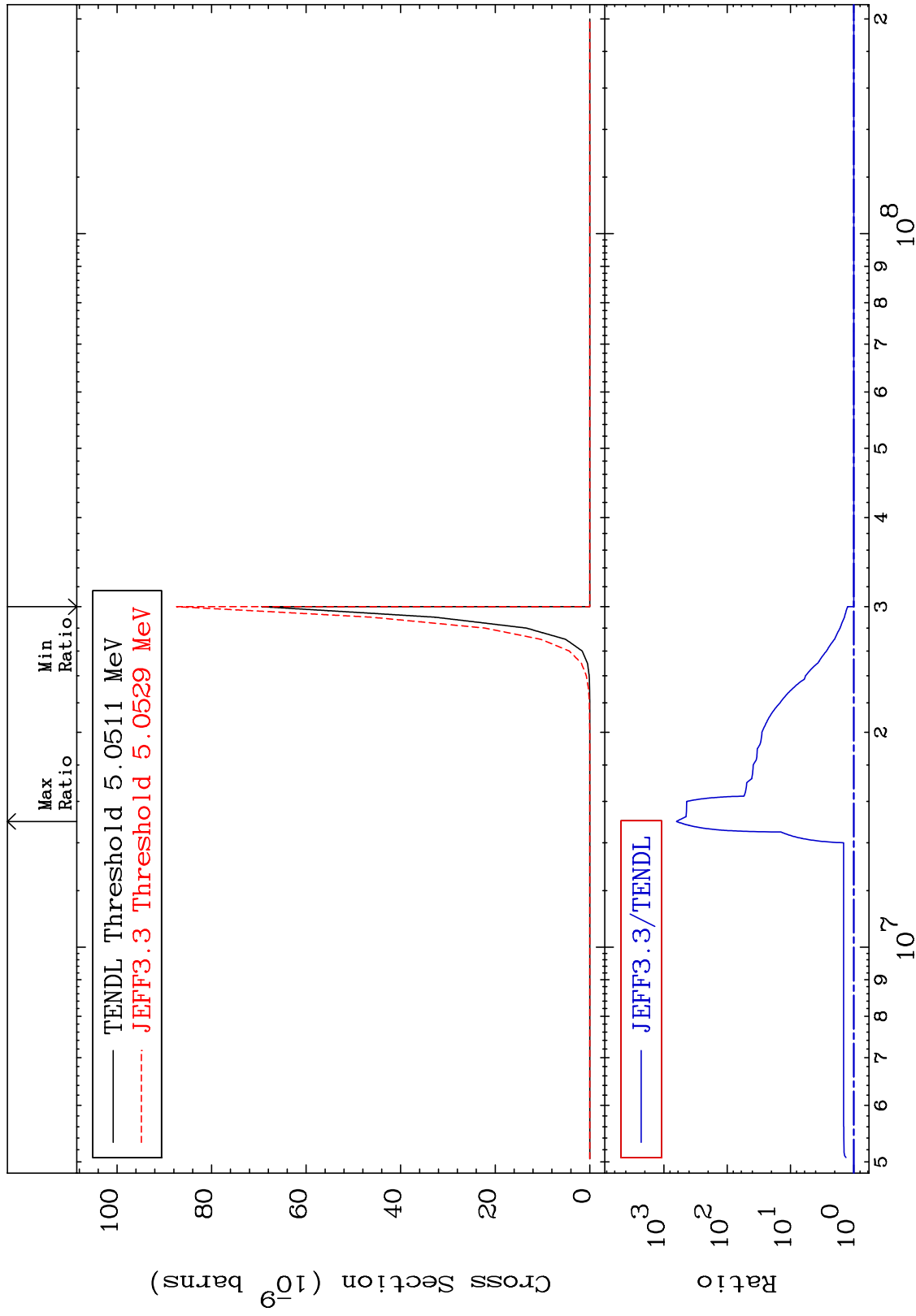
MAT 6925 (n,2n) p 69-Tm-169
 Cross Section -0.212 To 0.162 %



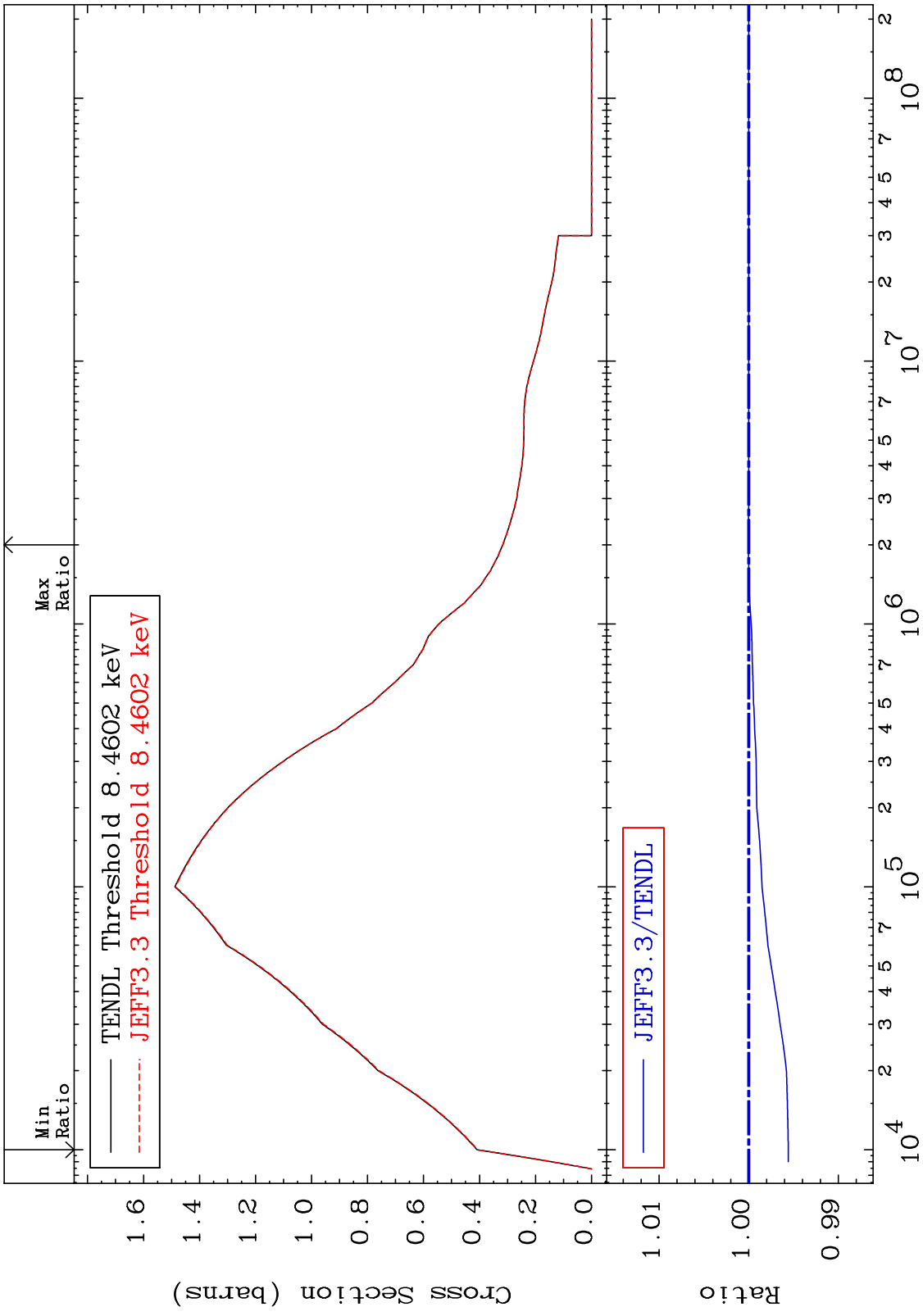
MAT 6925

(n,n') p α
Cross Section

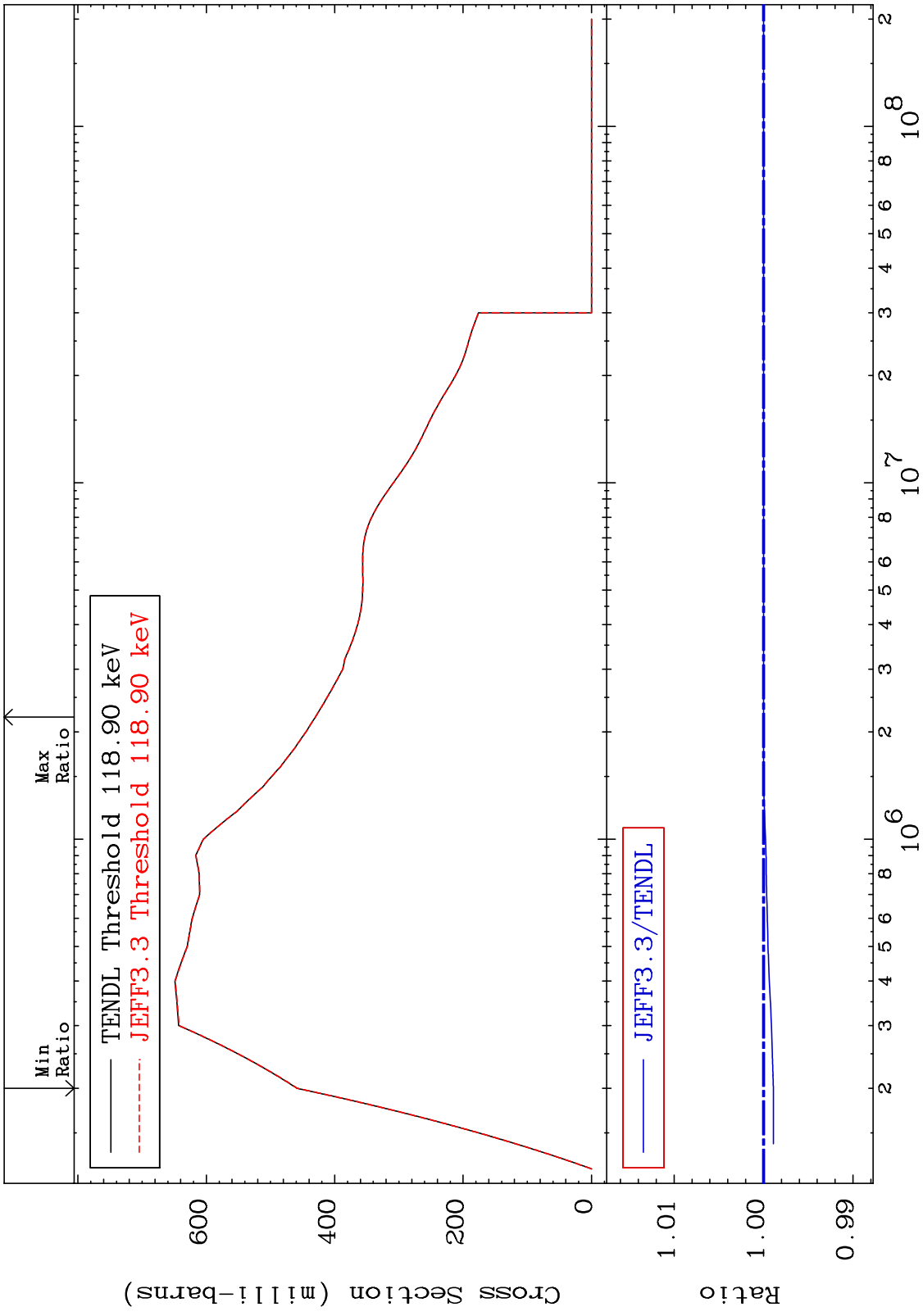
69-Tm-169
To 9999. %
0.000



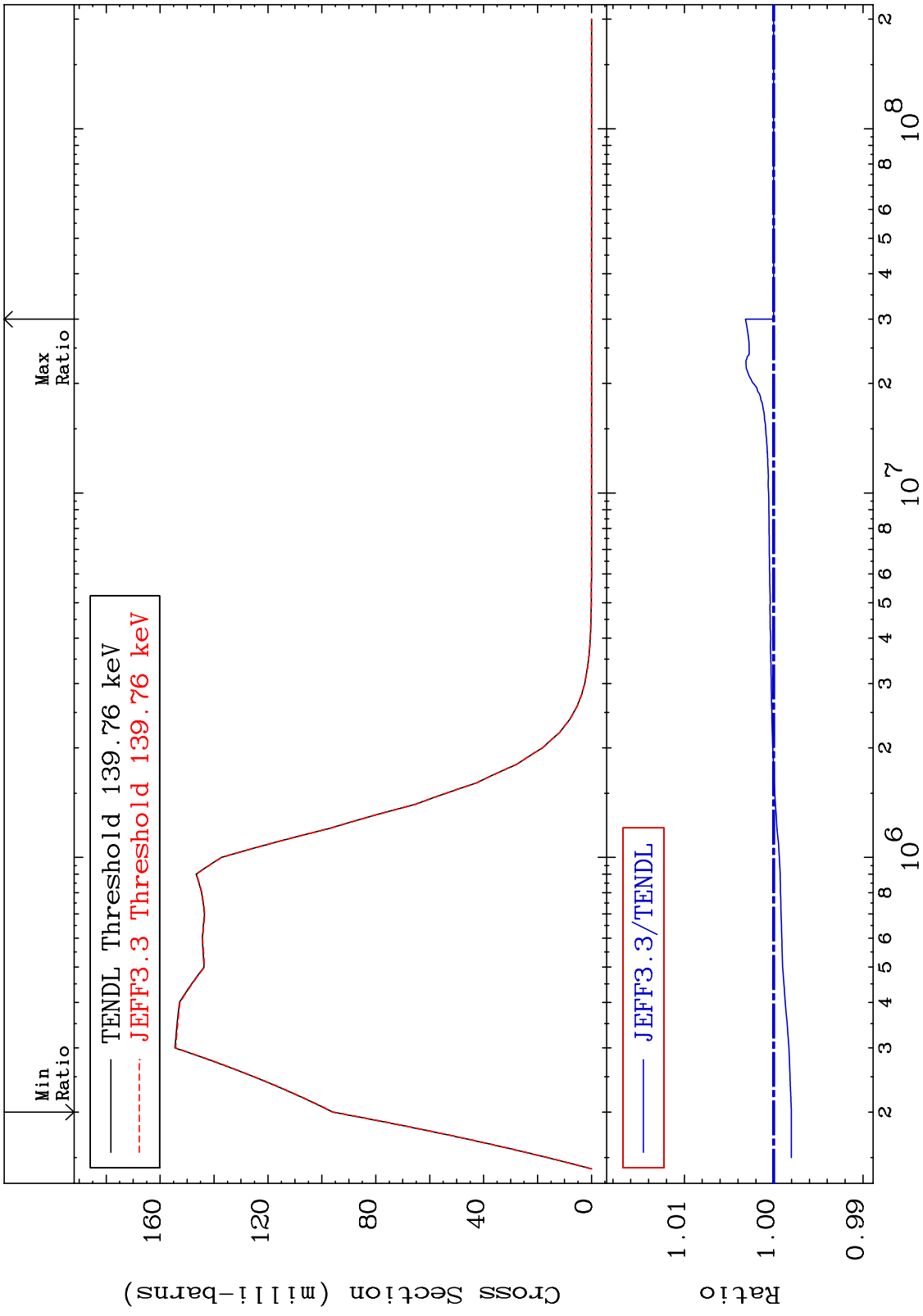
MAT 6925 MT= 51 (n,n') Level Cross Section 69-Tm-169
 -0.443 To 0.000 %



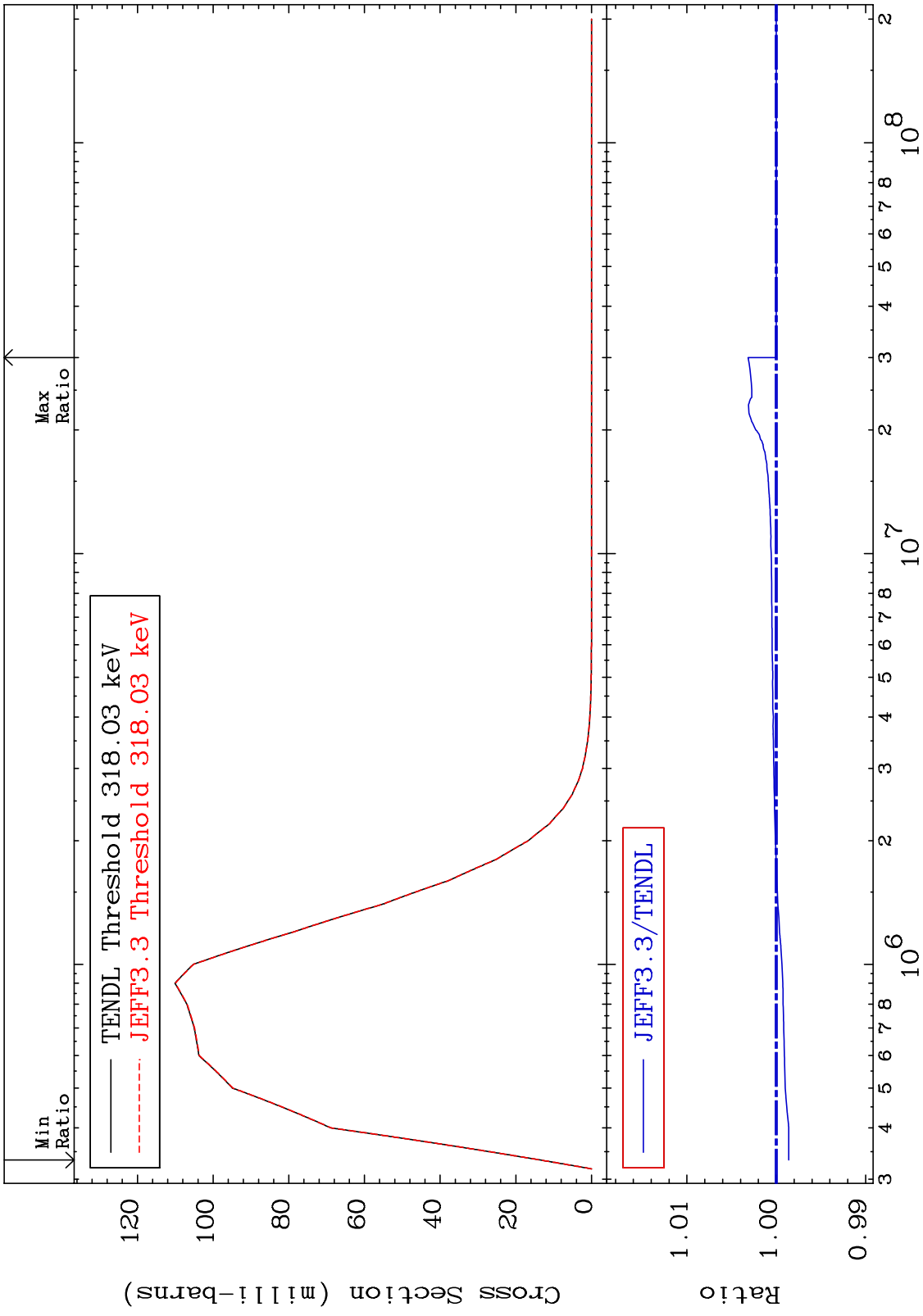
MAT 6925 MT= 52 (n,n') Level Cross Section 69-Tm-169
 -0.110 To 0.000 %



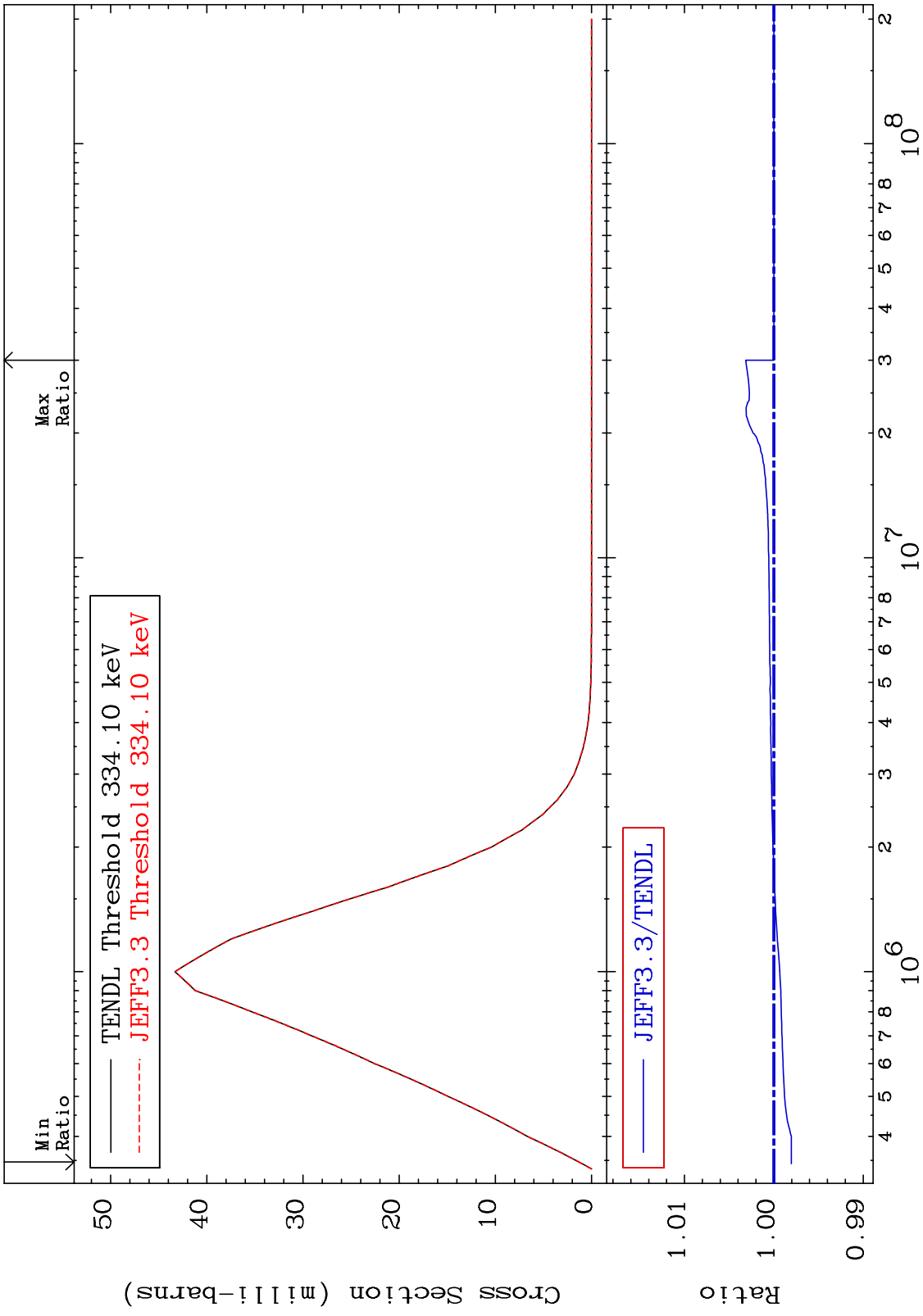
MAT 6925 MT= 53 (n,n') Level Cross Section 69-Tm-169
 -0.198 To 0.315 %



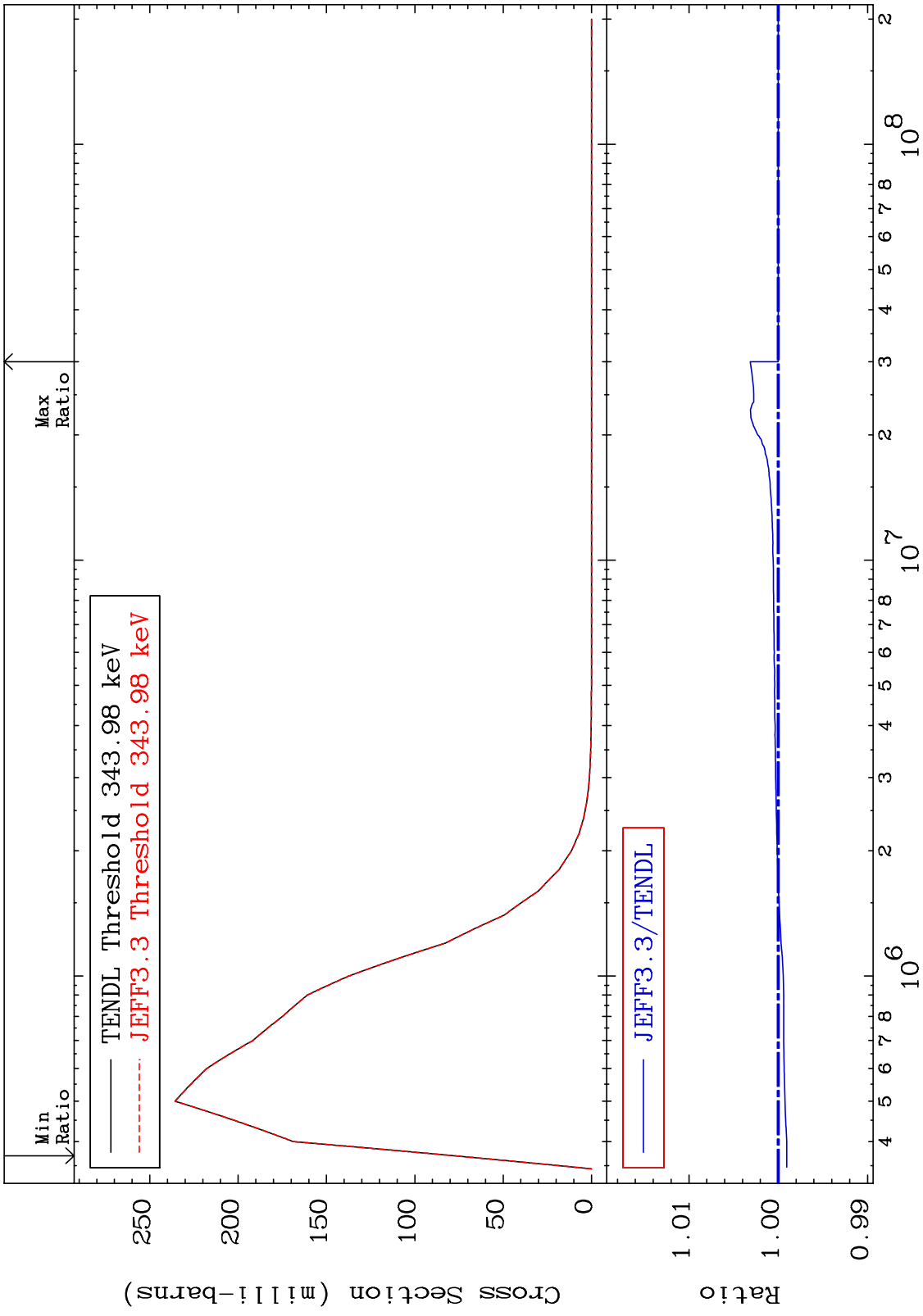
MAT 6925 MT= 54 (n,n') Level Cross Section 69-Tm-169 -0.140 To 0.315 %



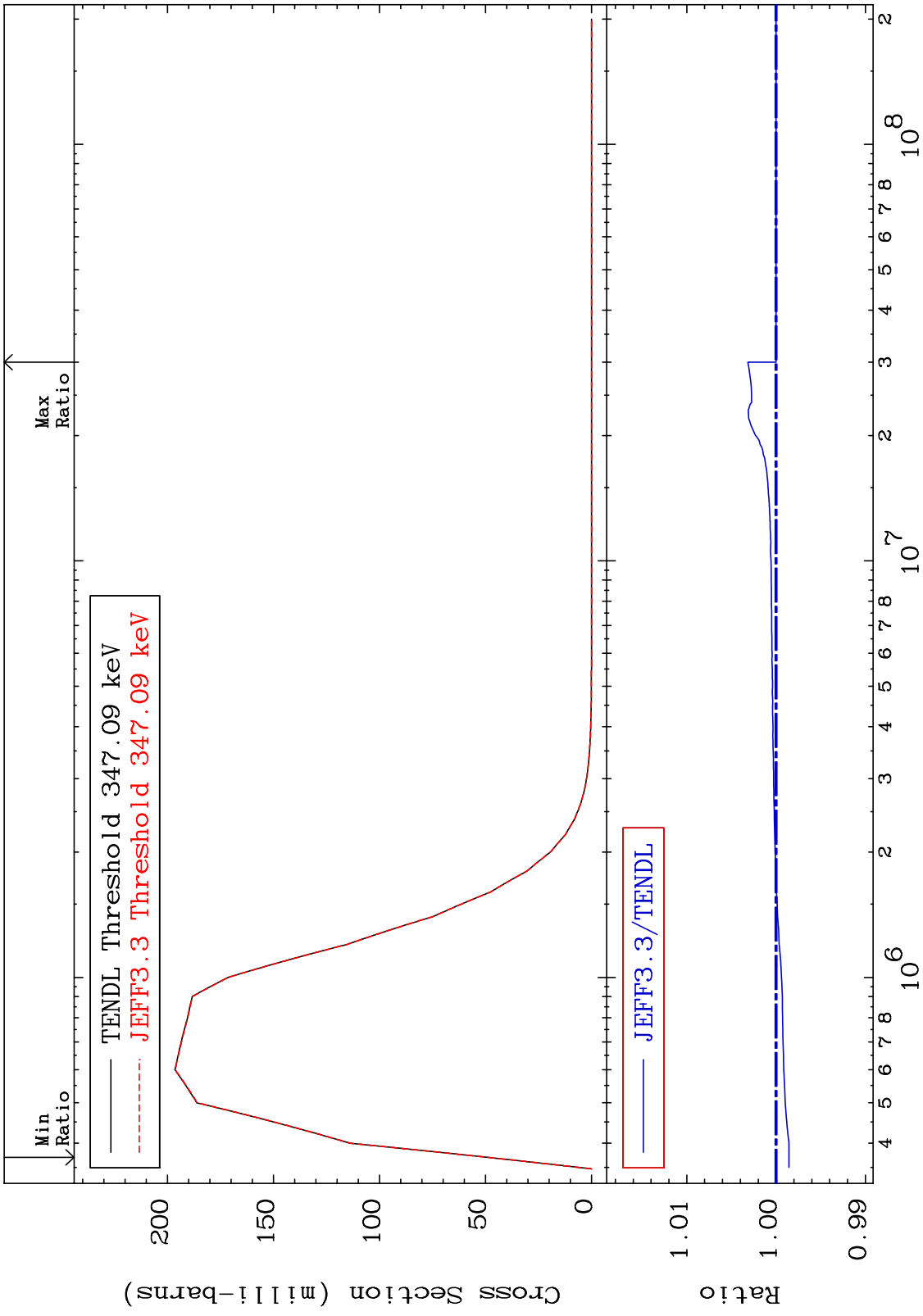
MAT 6925 MT= 55 (n,n') Level Cross Section 69-Tm-169 -0.195 To 0.315 %



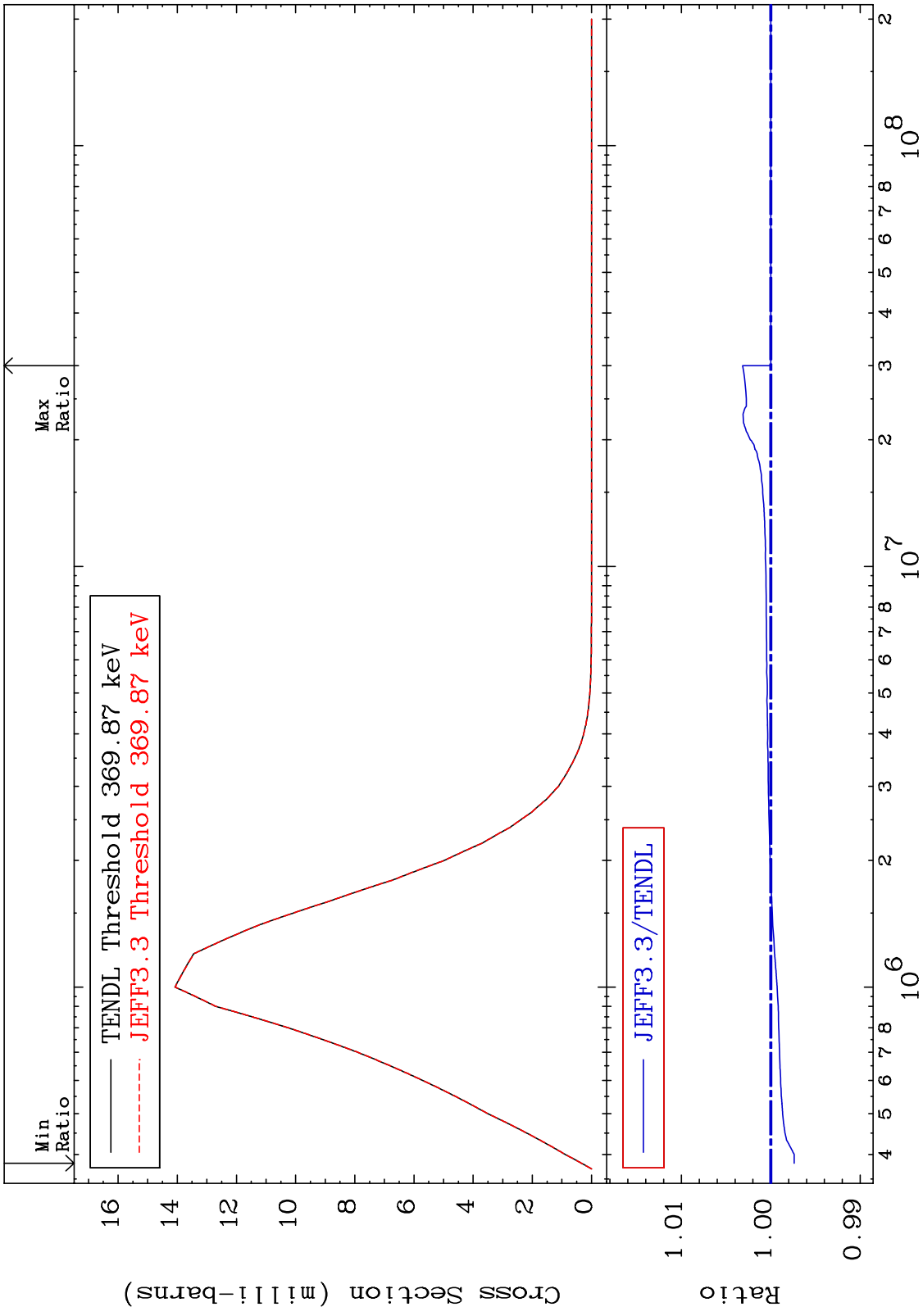
MAT 6925 MT= 56 (n,n') Level Cross Section 69-Tm-169 -0.095 To 0.315 %



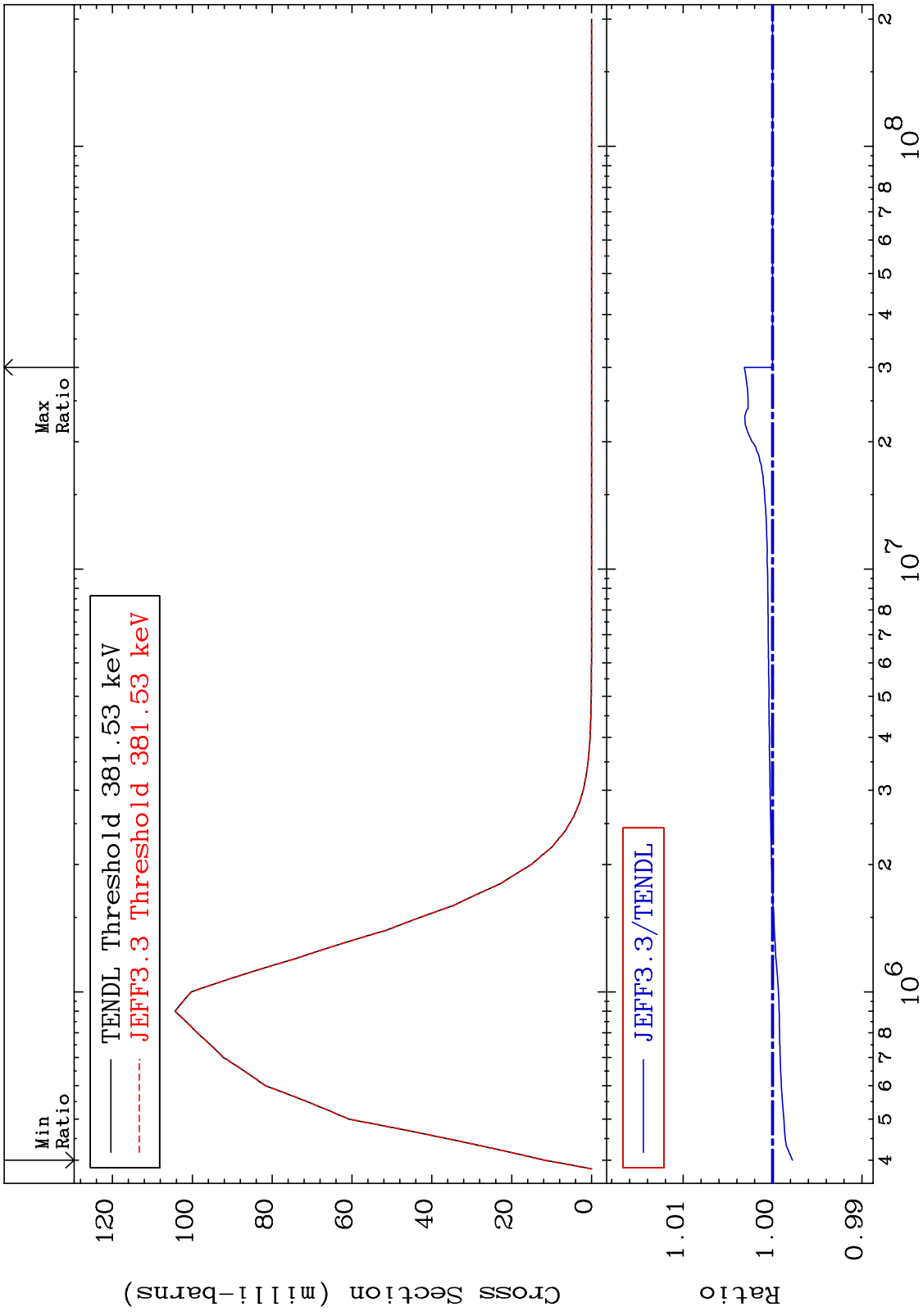
MAT 6925 MT= 57 (n,n') Level 69-Tm-169
 Cross Section -0.144 To 0.315 %



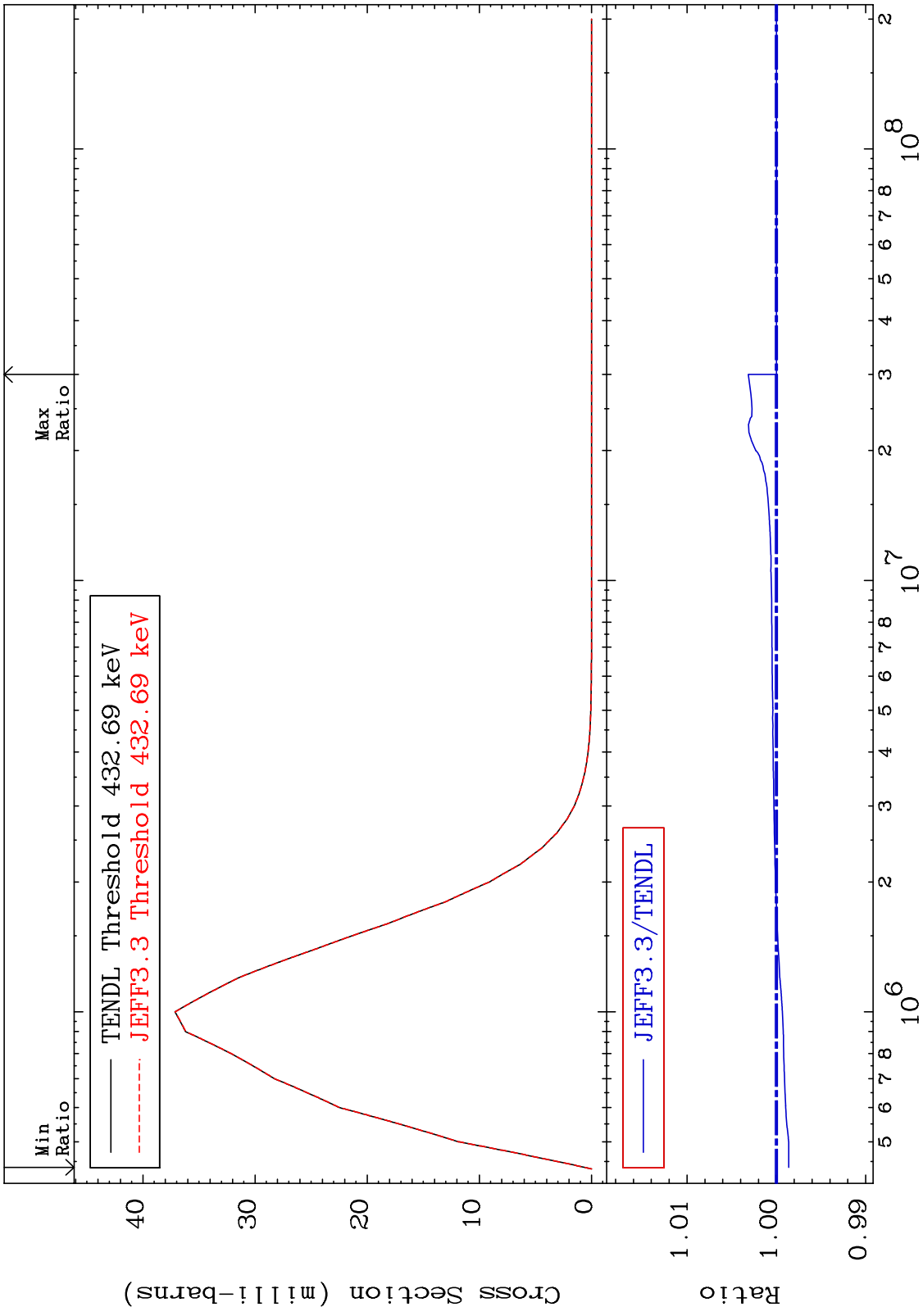
MAT 6925 MT= 58 (n,n') Level Cross Section 69-Tm-169 -0.262 To 0.315 %



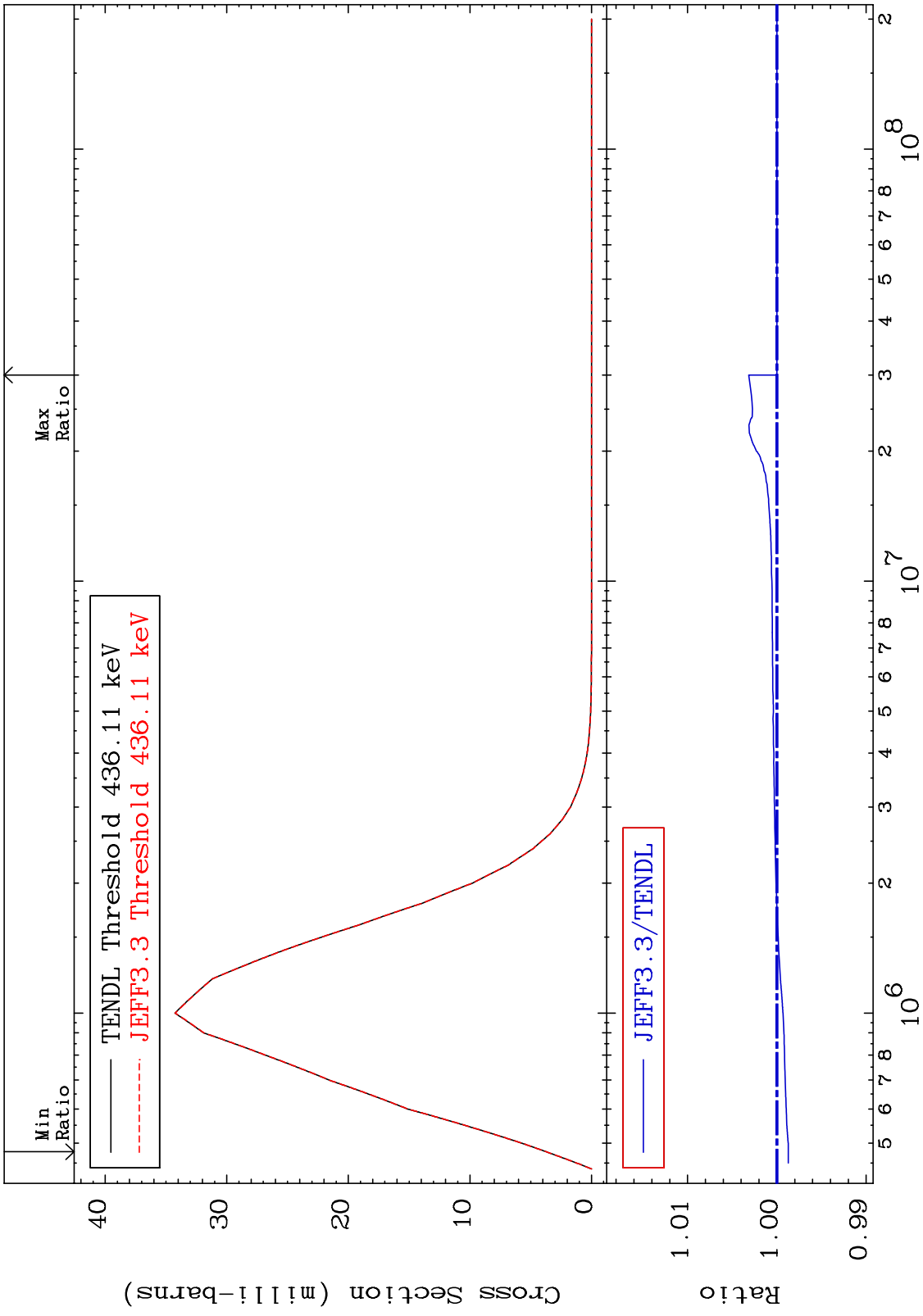
MAT 6925 MT= 59 (n,n') Level Cross Section 69-Tm-169 -0.223 To 0.316 %



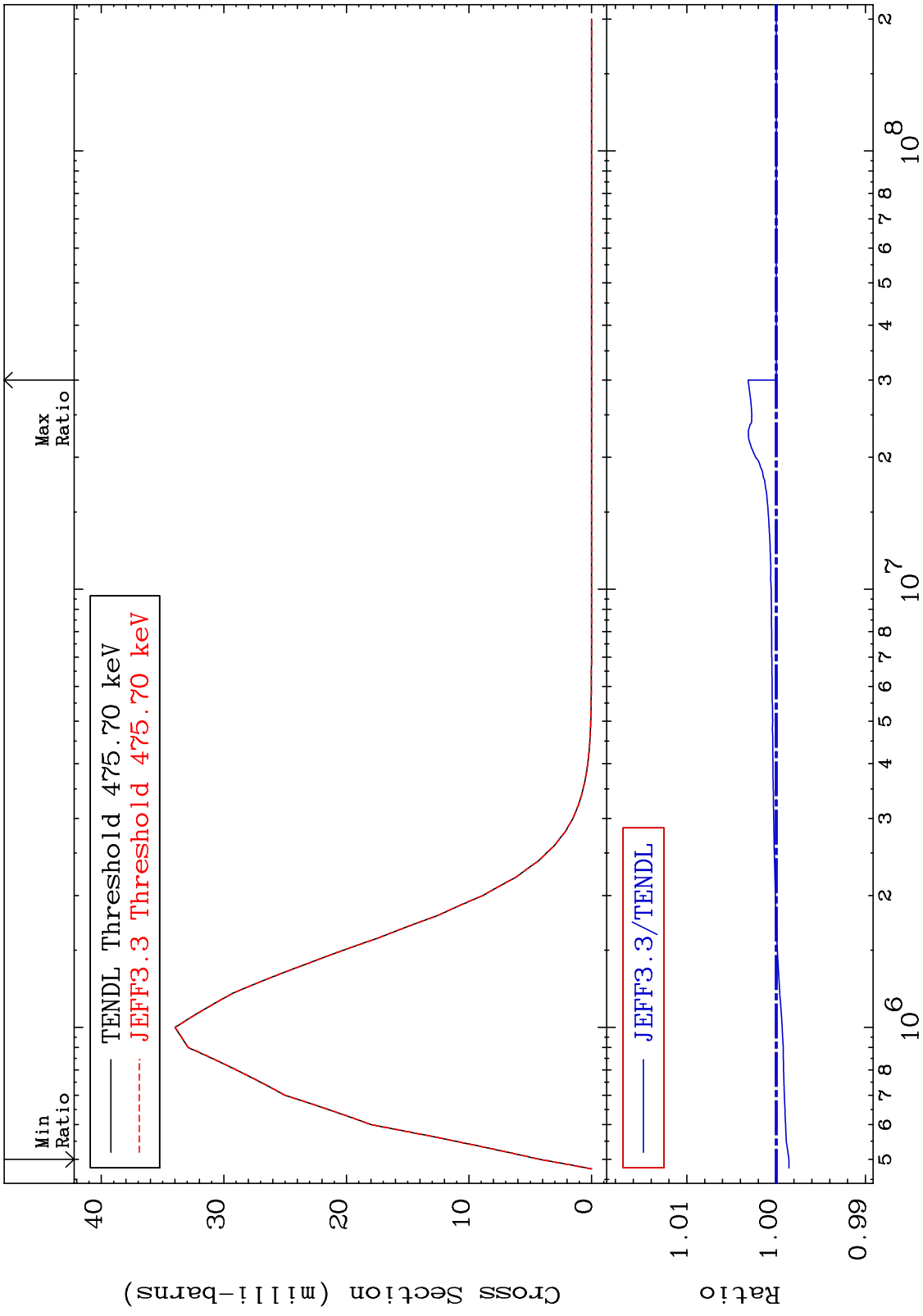
MAT 6925 MT= 60 (n,n') Level Cross Section 69-Tm-169
 -0.138 To 0.315 %



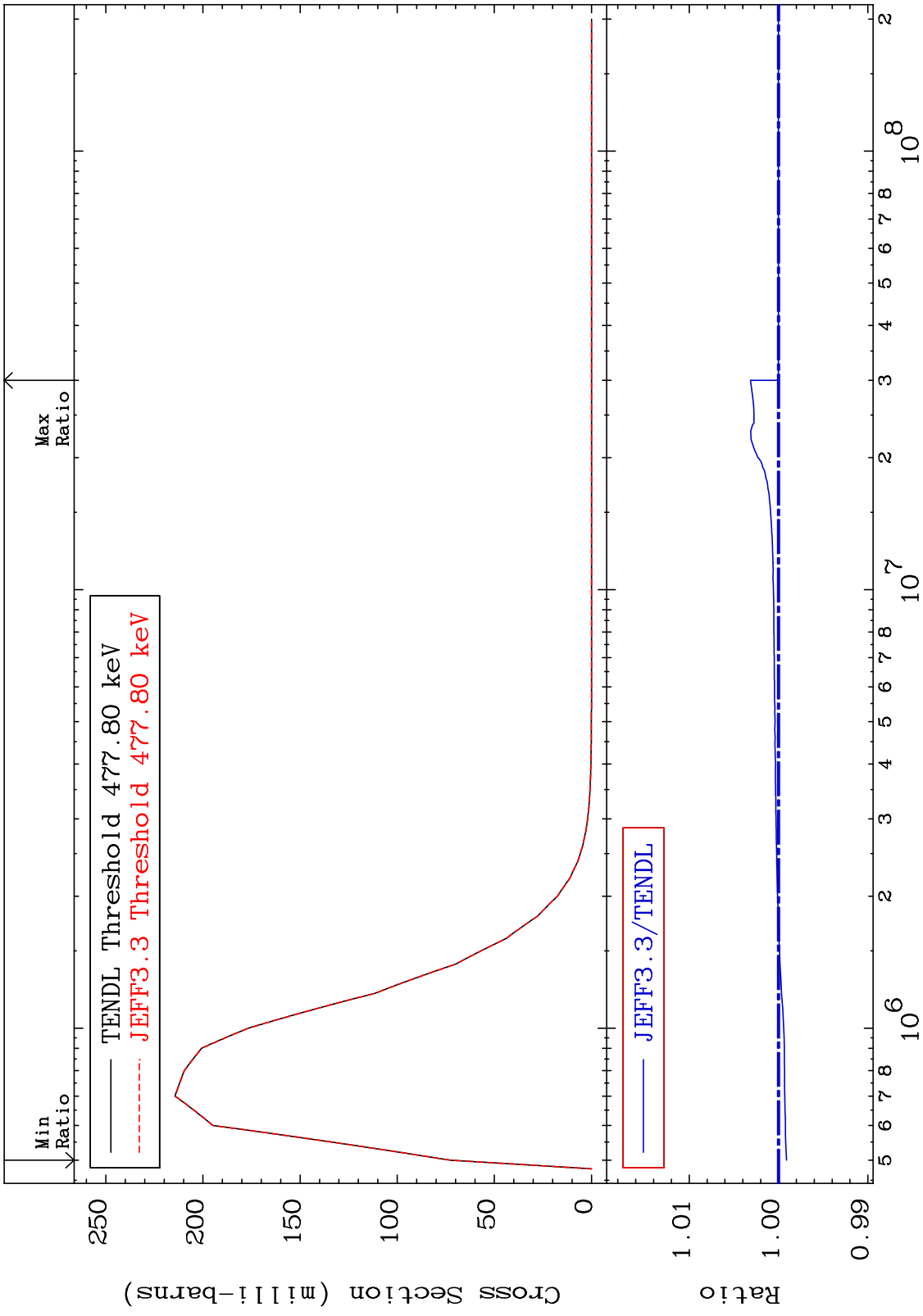
MAT 6925 MT= 61 (n,n') Level Cross Section 69-Tm-169 -0.126 To 0.315 %



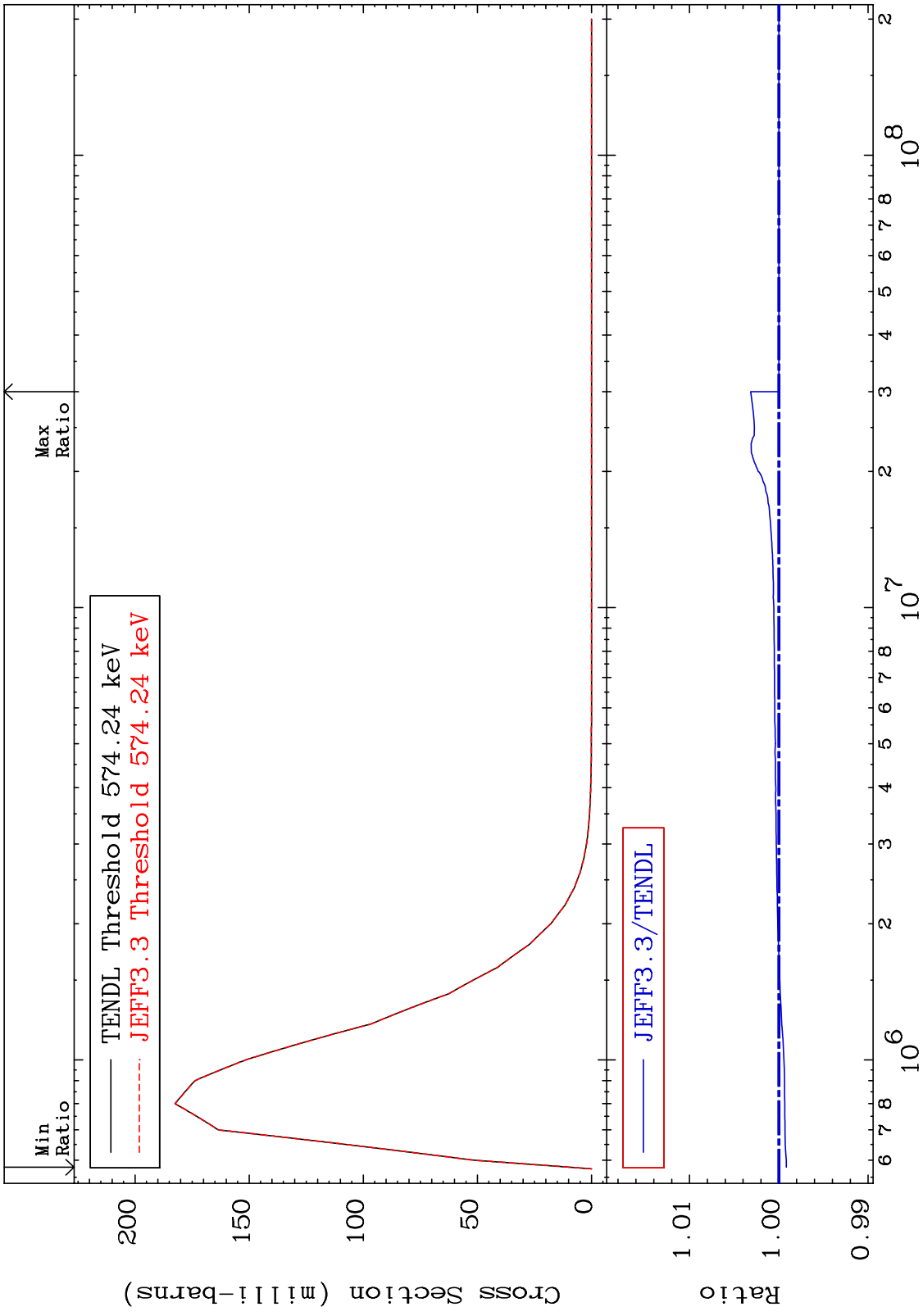
MAT 6925 MT= 62 (n,n') Level Cross Section 69-Tm-169
 -0.142 To 0.315 %



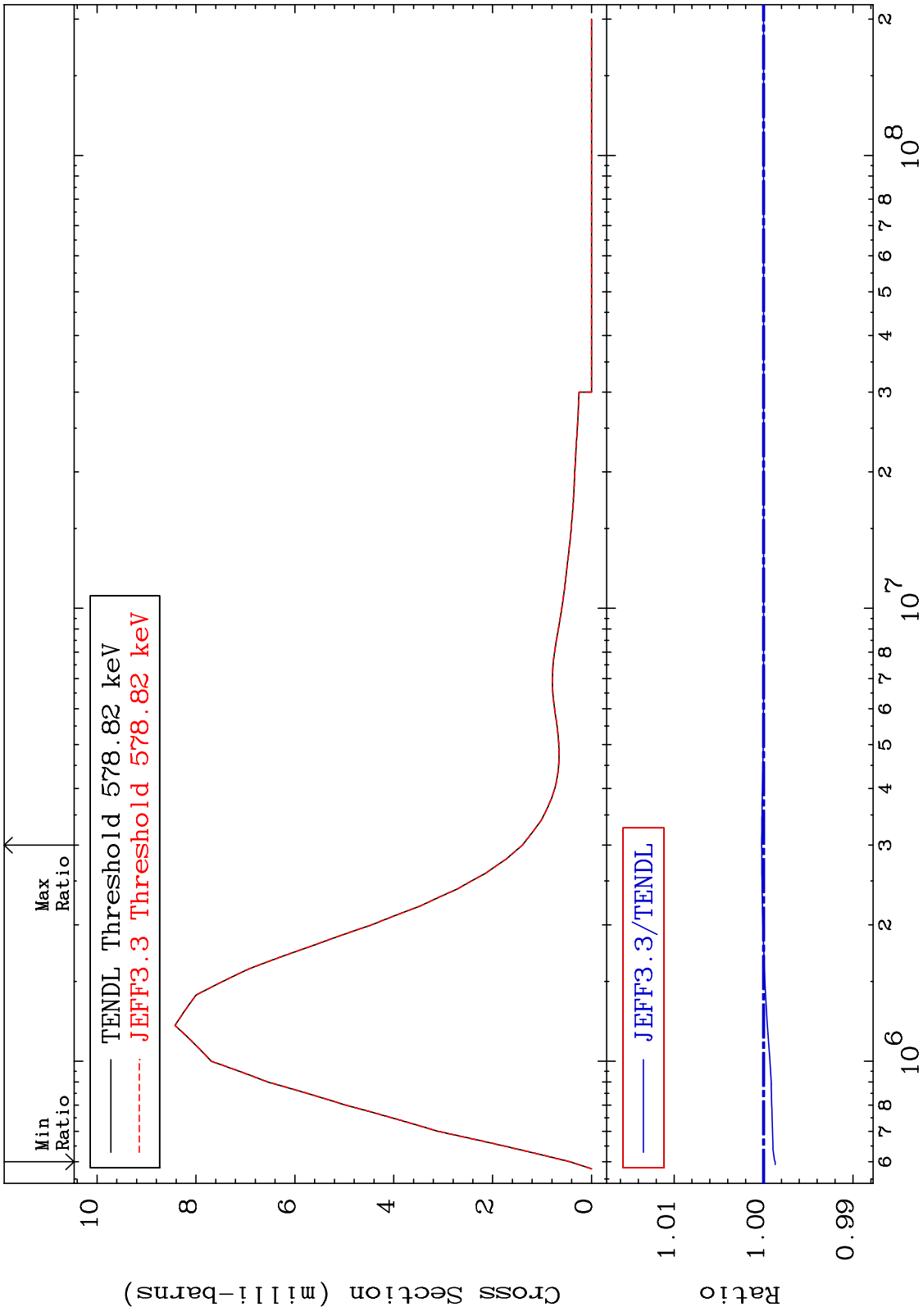
MAT 6925 MT= 63 (n,n') Level Cross Section 69-Tm-169
 -0.089 To 0.315 %



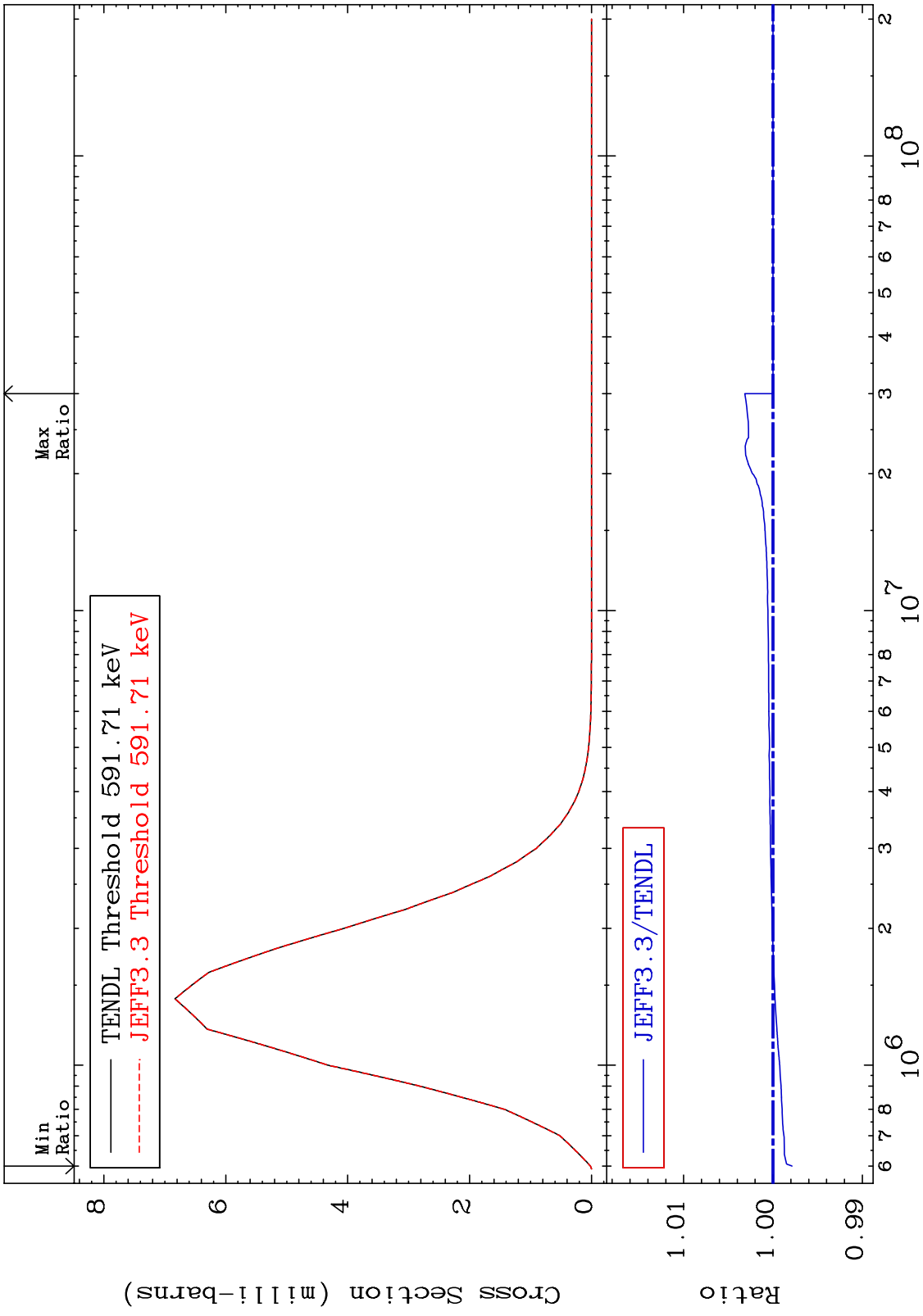
MAT 6925 MT= 64 (n,n') Level Cross Section 69-Tm-169
 -0.083 To 0.315 %



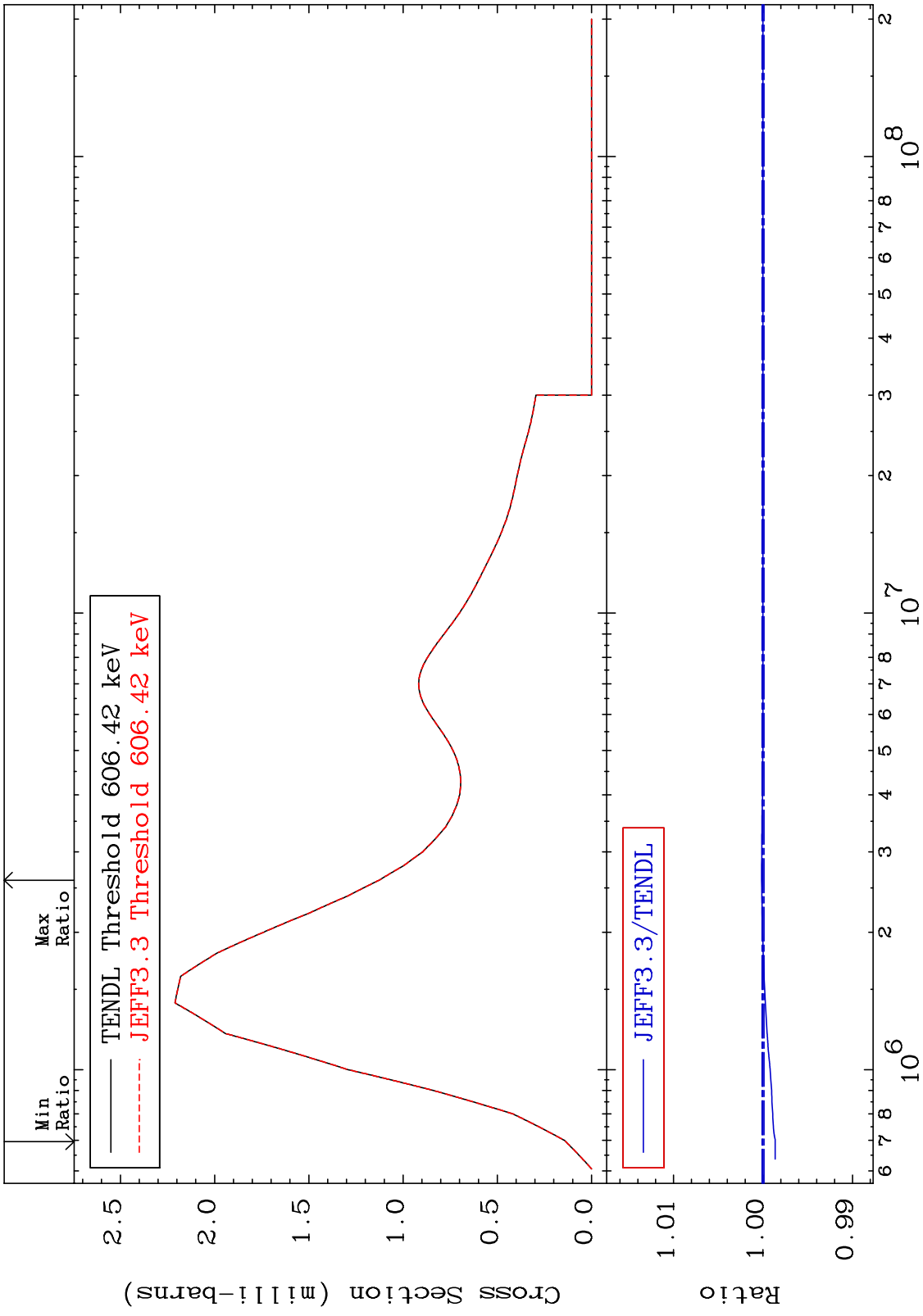
MAT 6925 MT= 65 (n,n') Level Cross Section 69-Tm-169
 -0.130 To 0.021 %



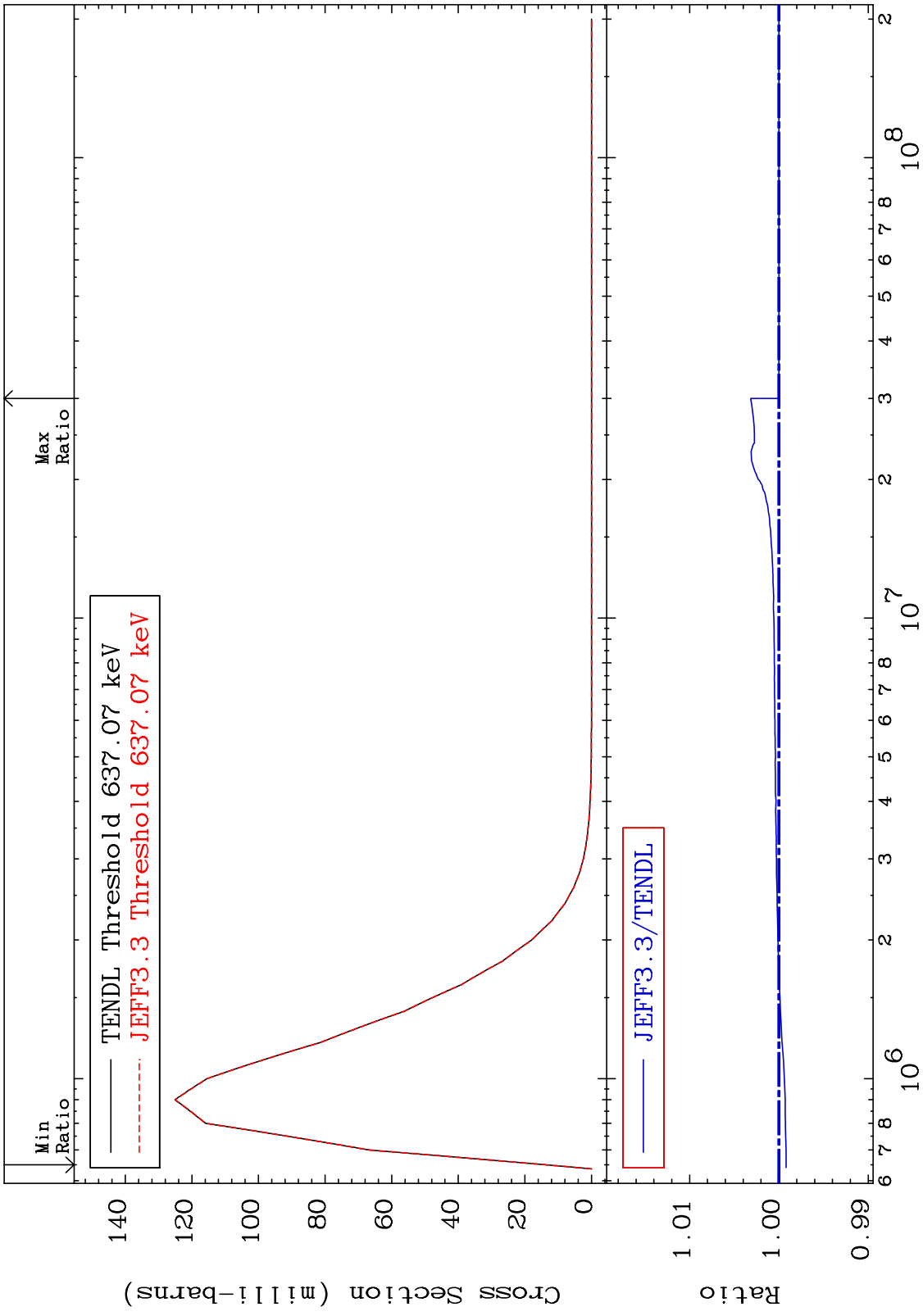
MAT 6925 MT= 66 (n,n') Level Cross Section 69-Tm-169
 -0.214 To 0.316 %



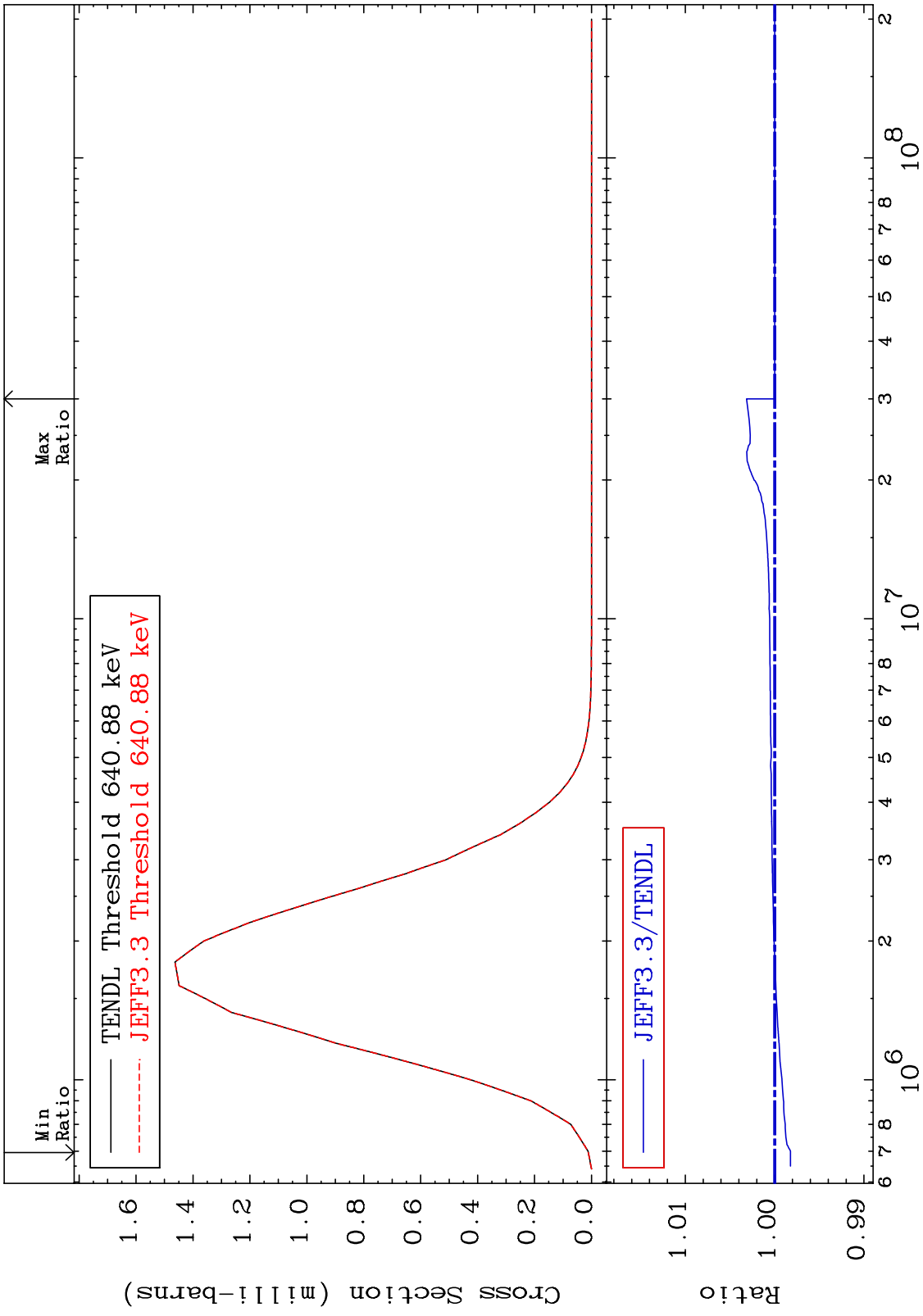
MAT 6925 MT= 67 (n,n') Level Cross Section 69-Tm-169 -0.136 To 0.015 %



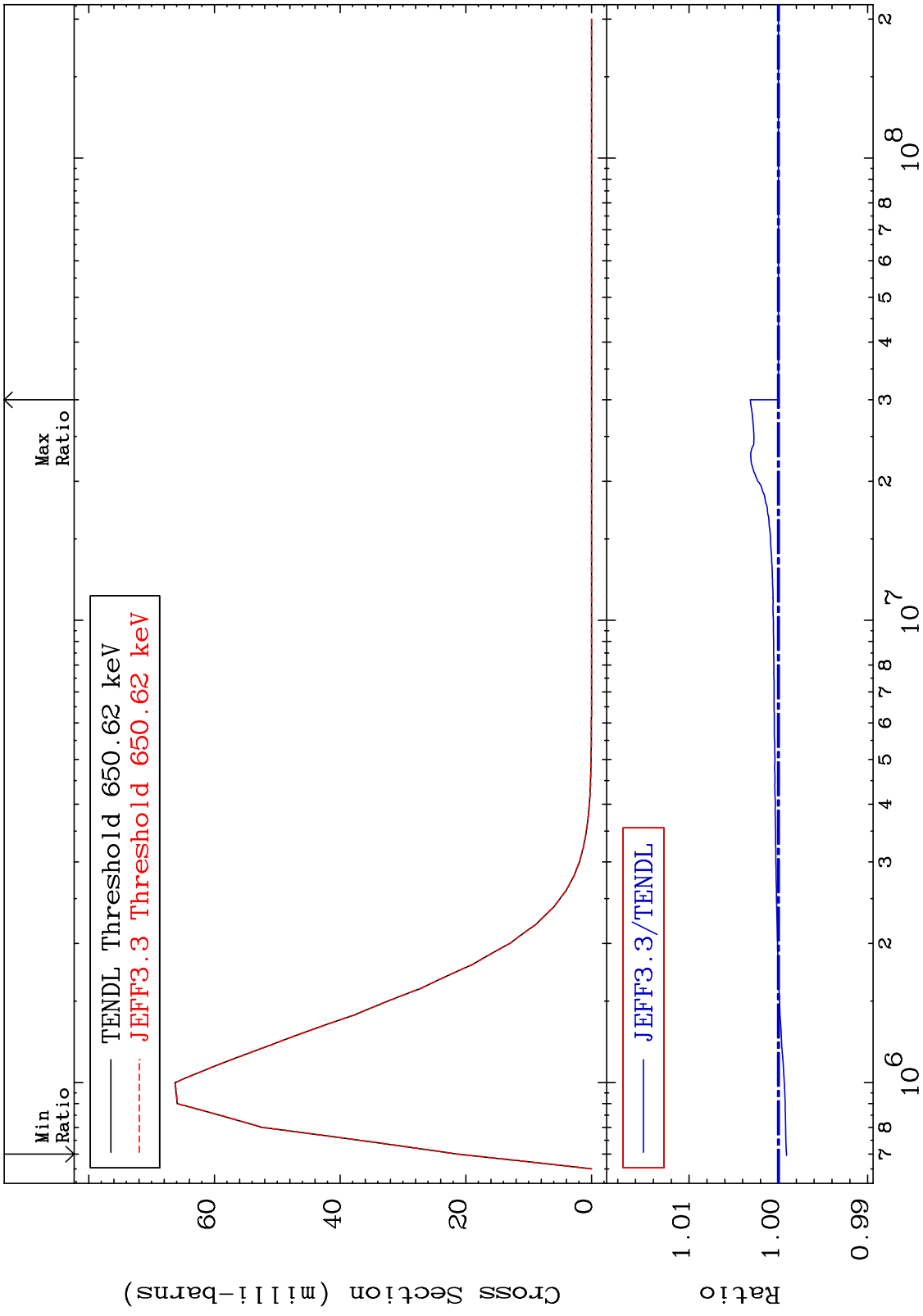
MAT 6925 MT= 68 (n,n') Level Cross Section 69-Tm-169 -0.081 To 0.315 %



MAT 6925 MT= 69 (n,n') Level Cross Section 69-Tm-169 -0.177 To 0.316 %

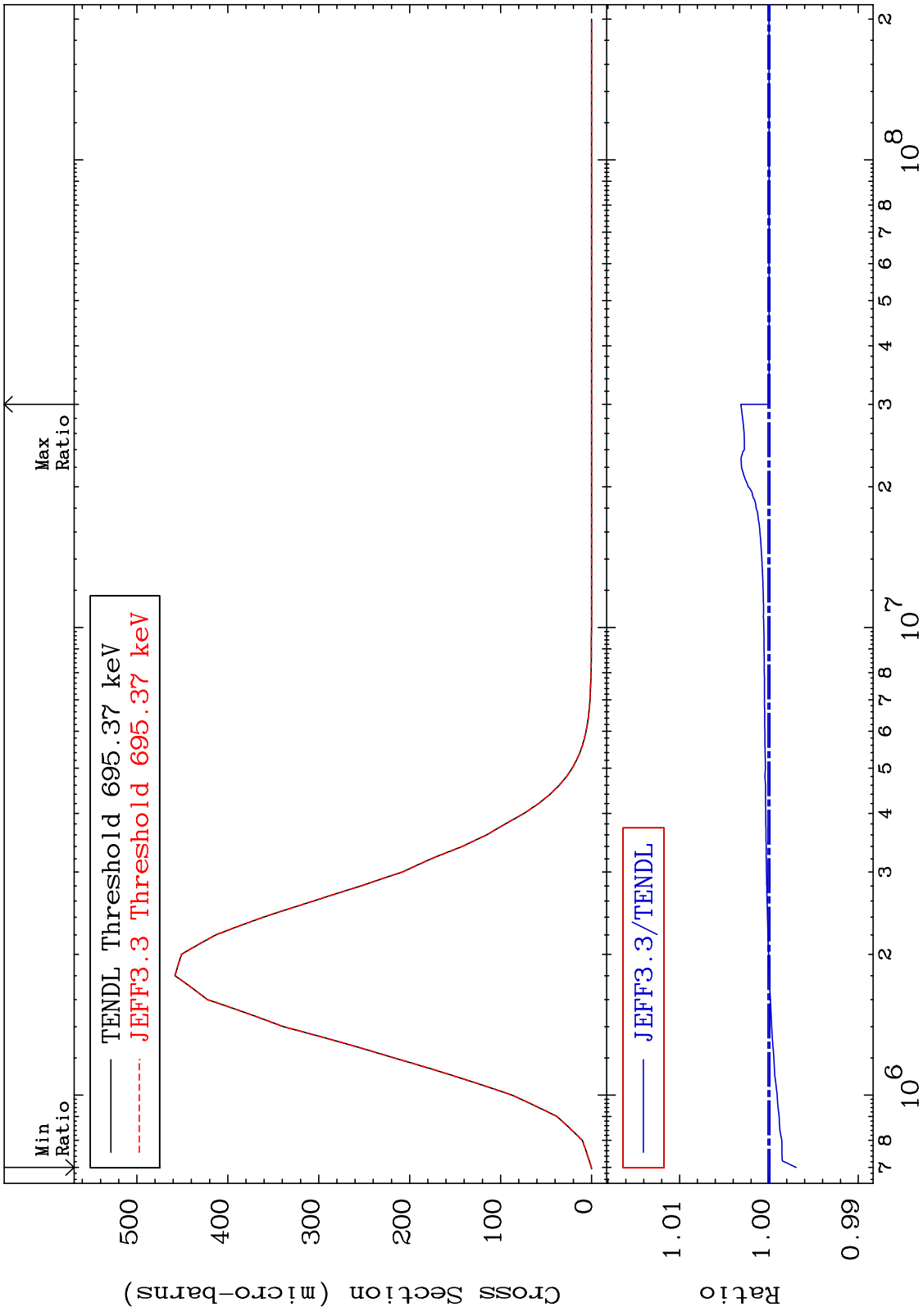


MAT 6925 MT= 70 (n,n') Level Cross Section 69-Tm-169
 -0.092 To 0.315 %

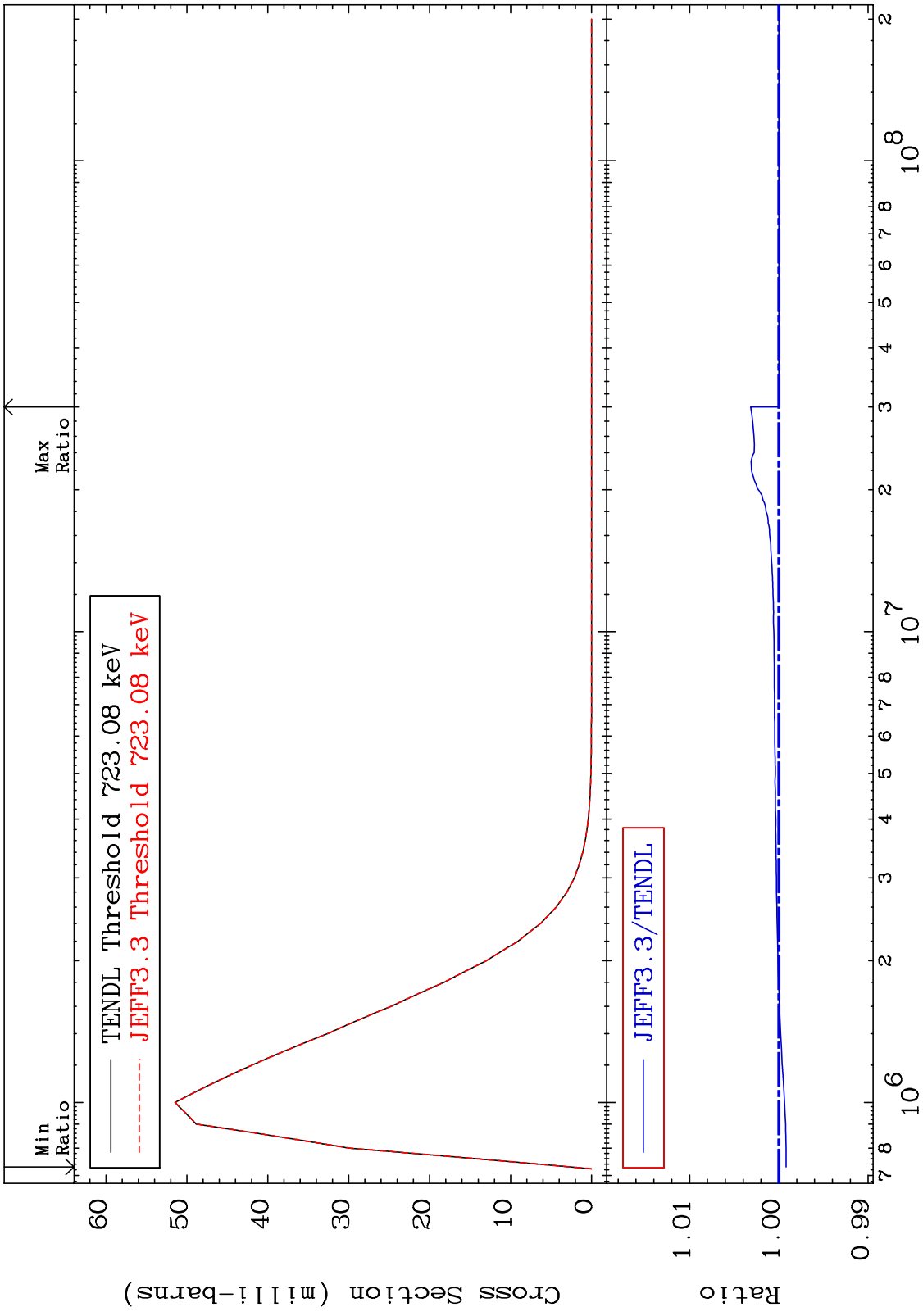


40 69-Tm-169

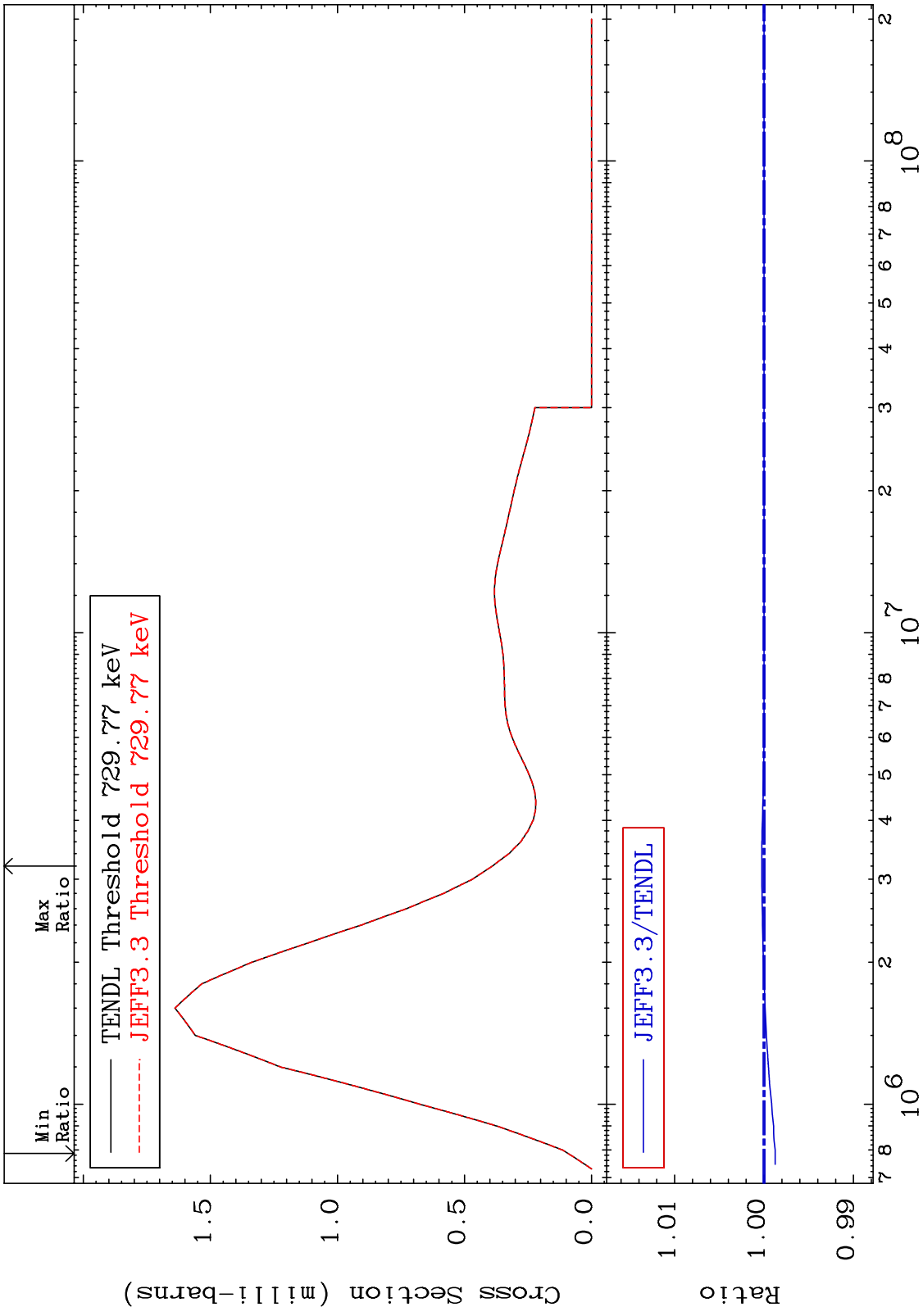
MAT 6925 MT= 71 (n,n') Level Cross Section 69-Tm-169
 -0.305 To 0.315 %



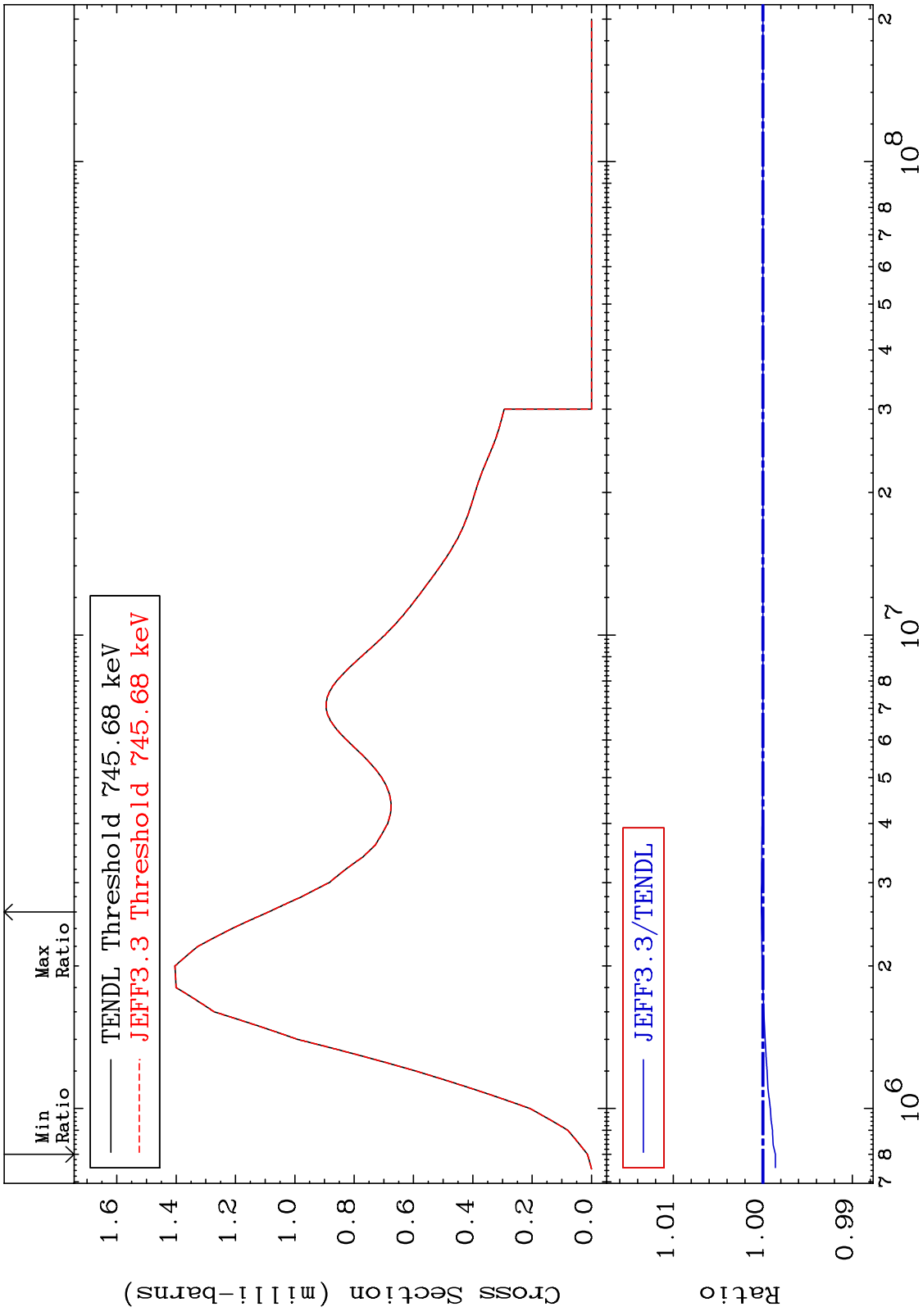
MAT 6925 MT= 72 (n,n') Level Cross Section 69-Tm-169 -0.082 To 0.316 %



MAT 6925 MT= 73 (n,n') Level Cross Section 69-Tm-169 -0.124 To 0.026 %



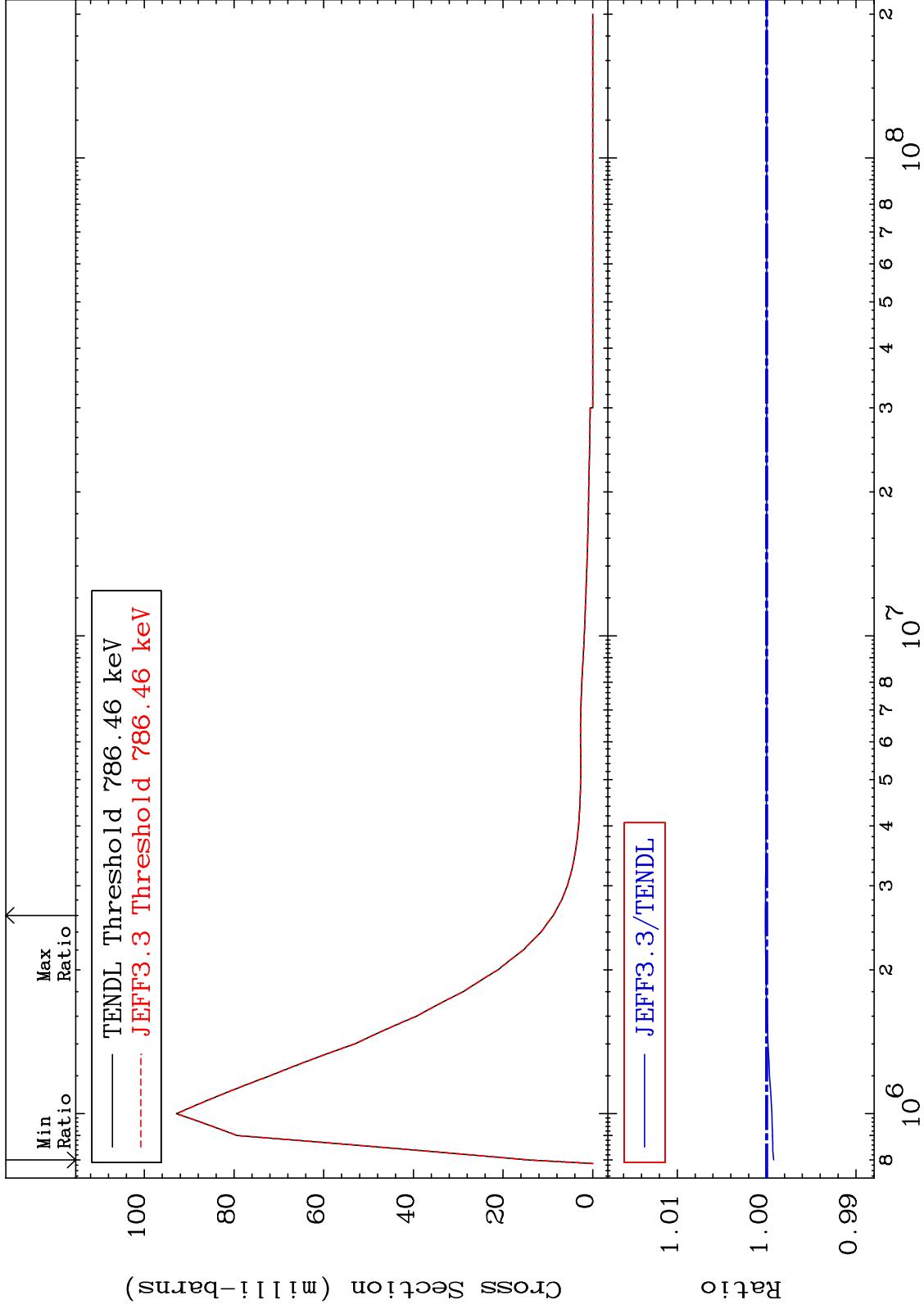
MAT 6925 MT= 74 (n,n') Level 69-Tm-169
 Cross Section -0.141 To 0.016 %



MAT 6925

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

69-Tm-169
-0.079 To 0.013 %

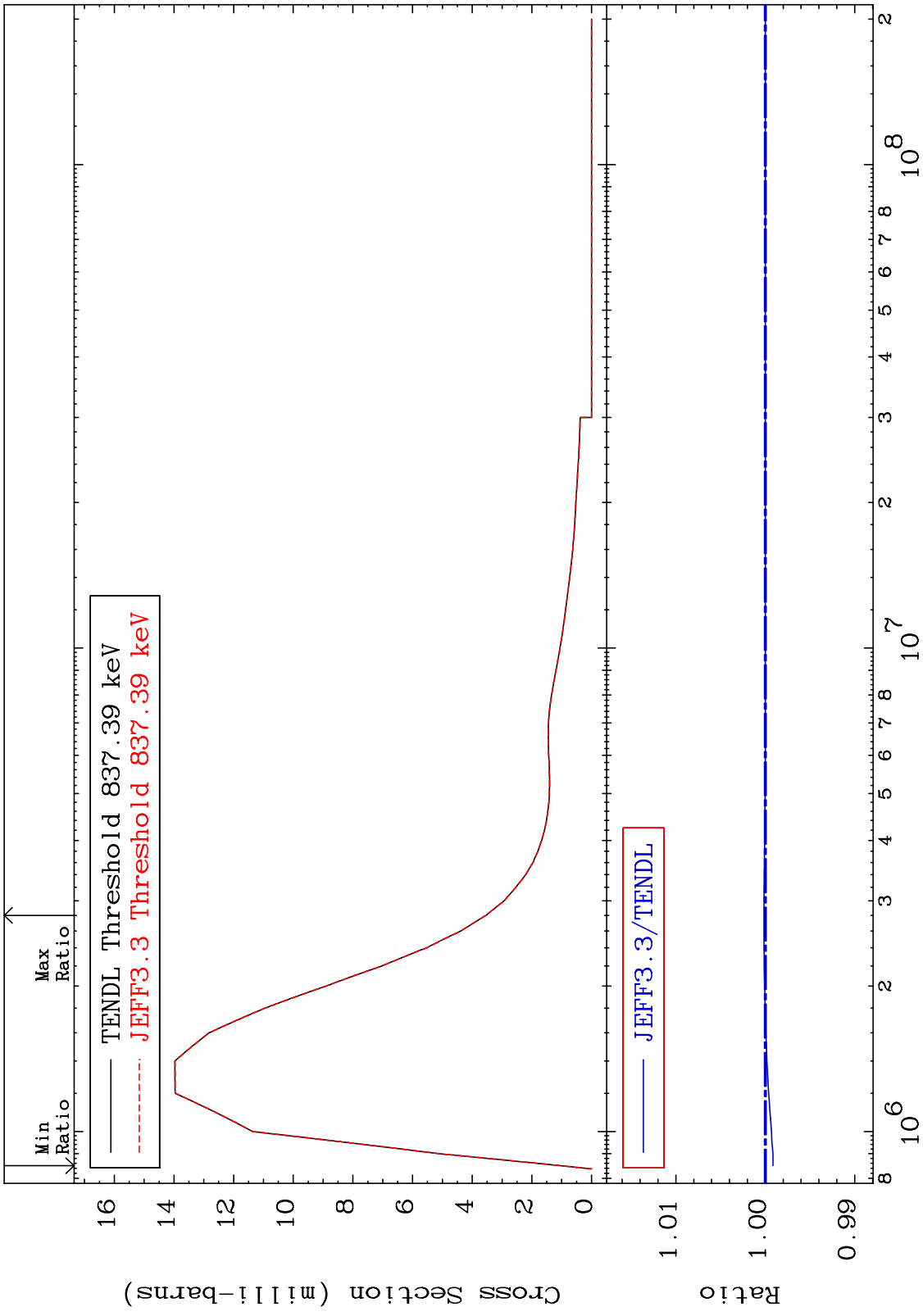


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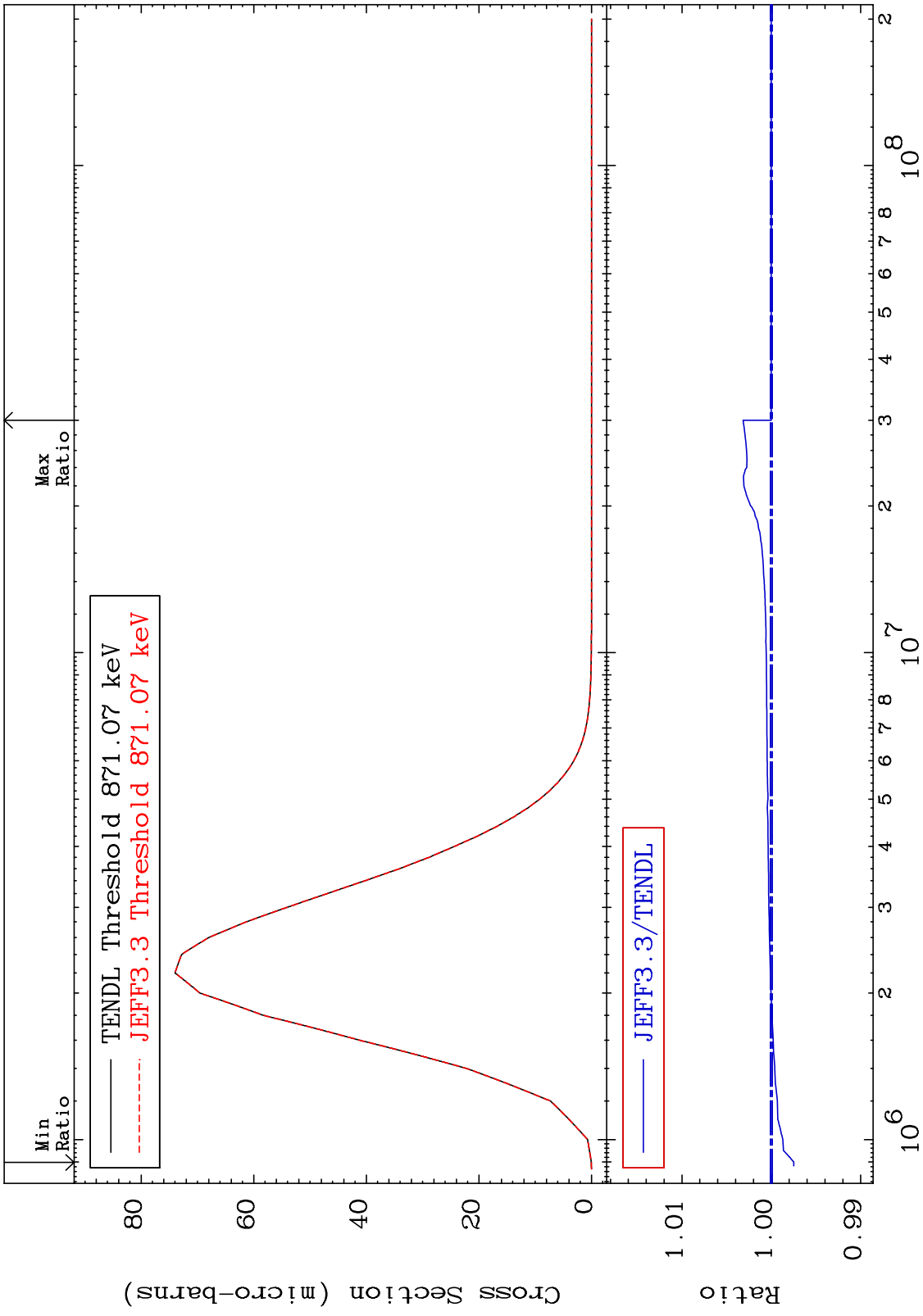
Incident Energy (eV)

69-Tm-169

MAT 6925 MT= 76 (n,n') Level Cross Section 69-Tm-169 -0.085 To 0.015 %



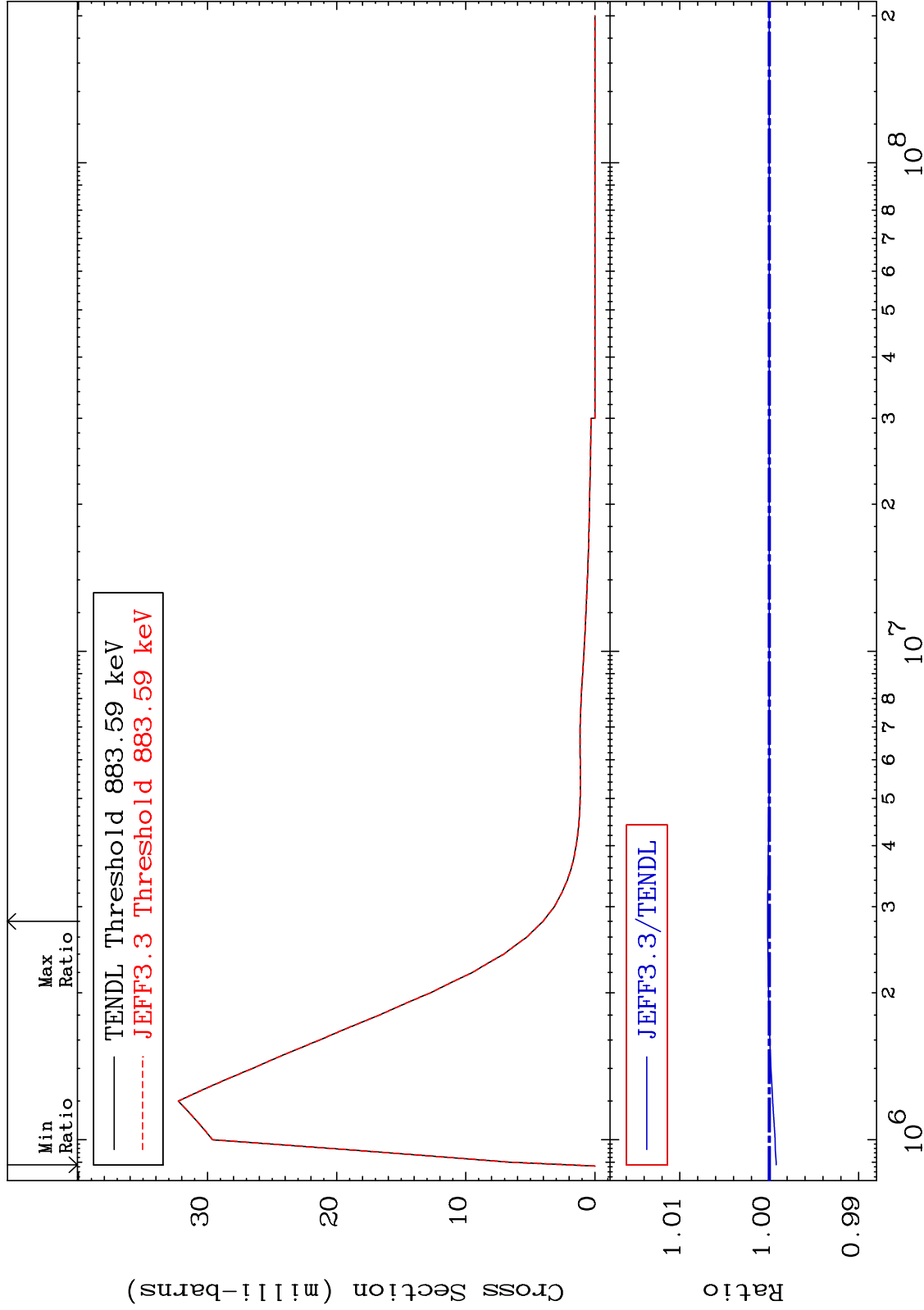
MAT 6925 MT= 77 (n,n') Level Cross Section 69-Tm-169
-0.251 To 0.316 %



MAT 6925

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

69-Tm-169
-0.076 To 0.018 %

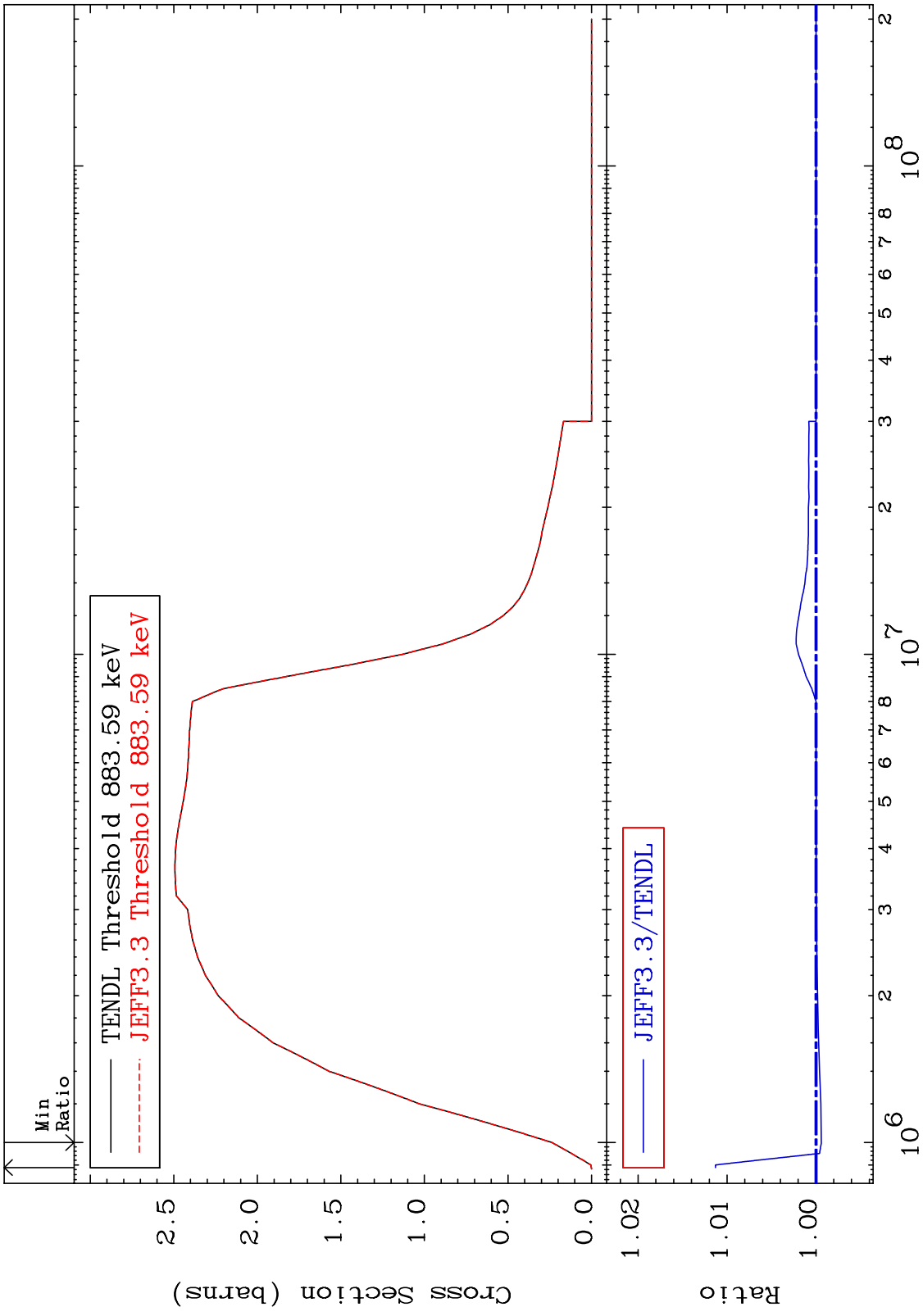


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Incident Energy (eV)

69-Tm-169

MAT 6925 (n,n') Continuum Cross Section 69-Tm-169 -0.061 To 1.129 %

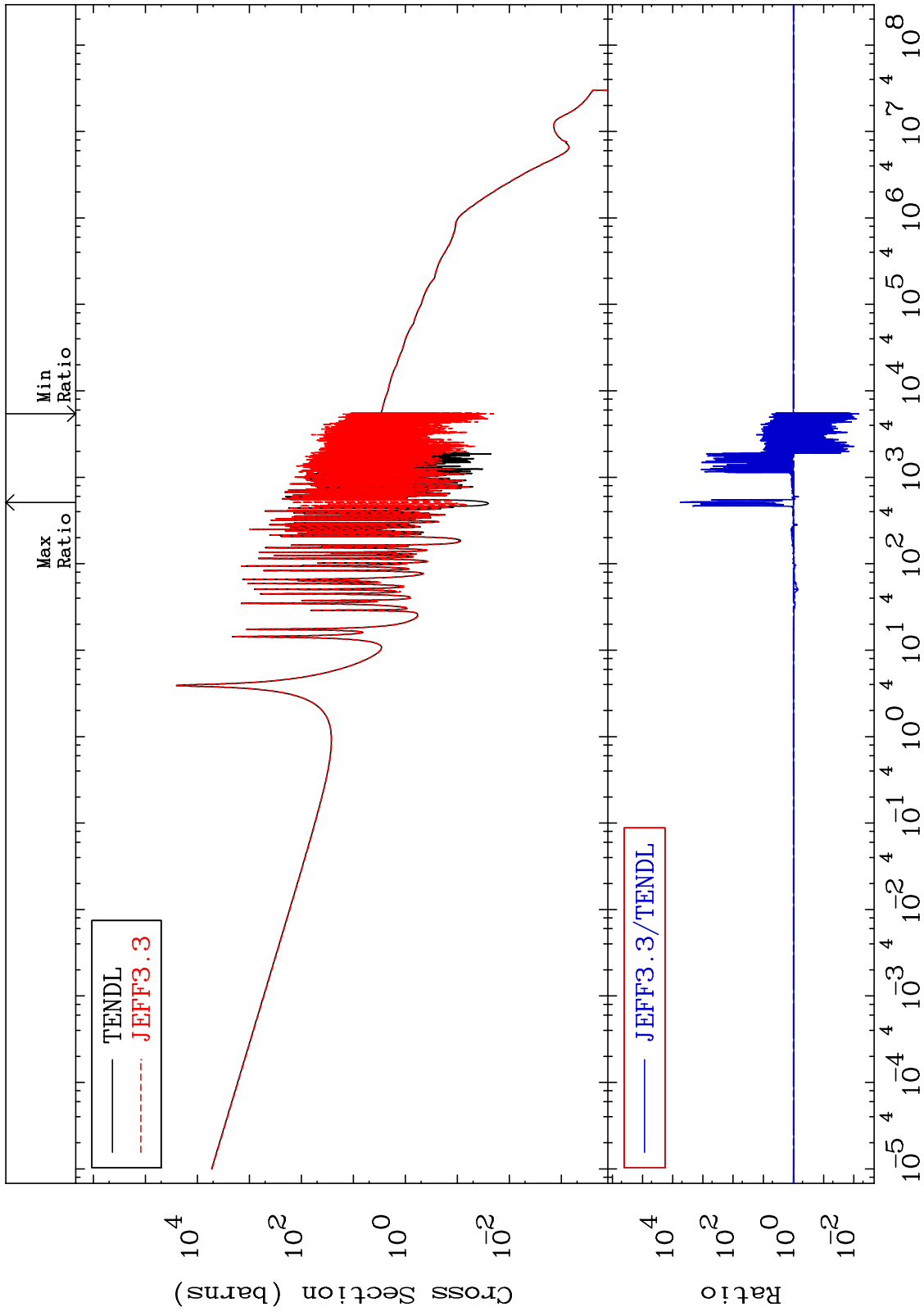


MAT 6925

69-Tm-169

-99.32 To 9999. %

(n, γ)
Cross Section



MAT 6925

(n,p)

69-Tm-169

Cross Section

-4.384 To 0.066 %

Min Ratio

Max Ratio

TENDL Threshold 1.9000 keV
JEFF3.3 Threshold 5.5581 keV

Cross Section (milli-barns)

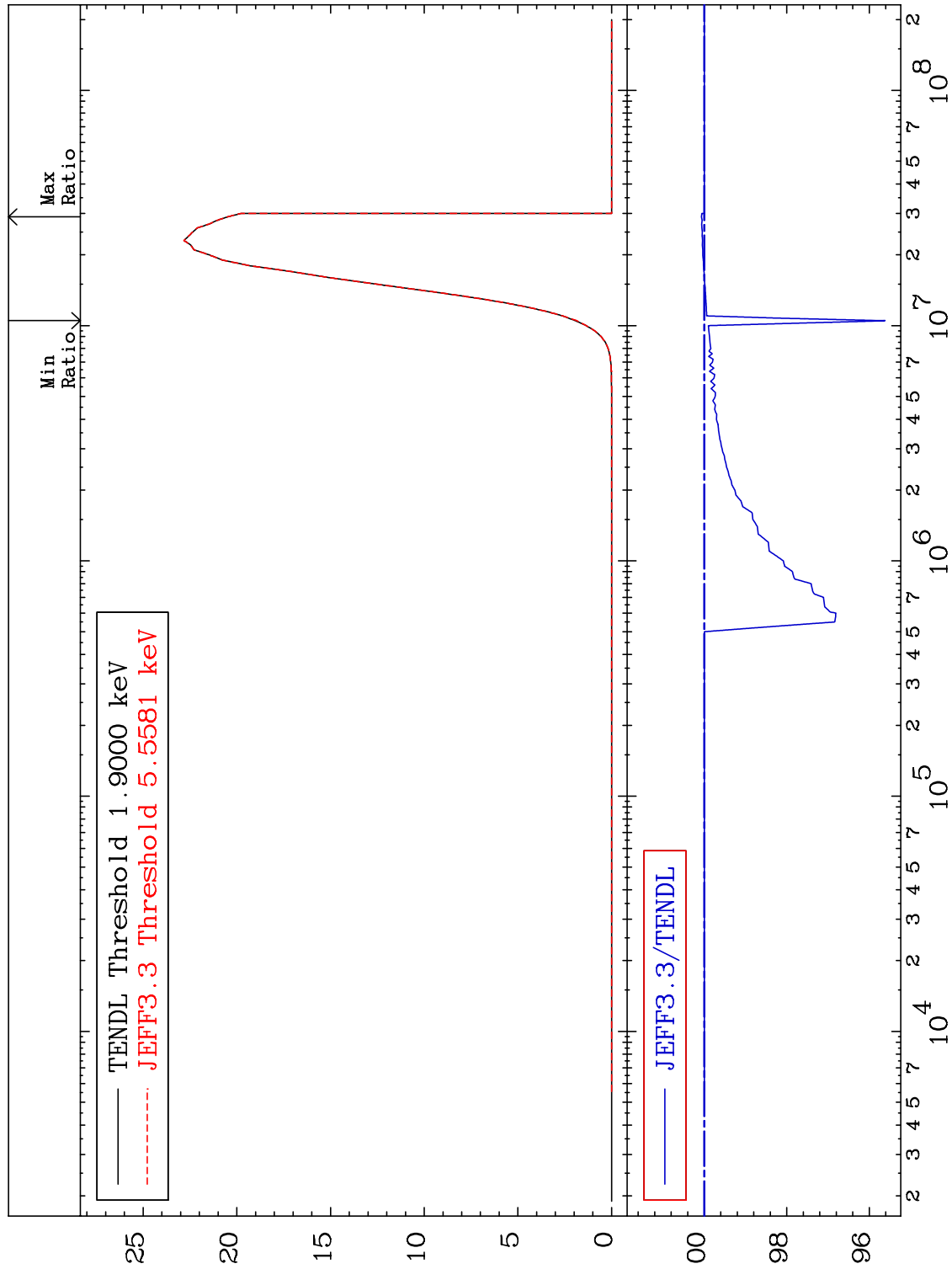
JEFF3.3/TENDL

Ratio

51

Incident Energy (eV)

69-Tm-169



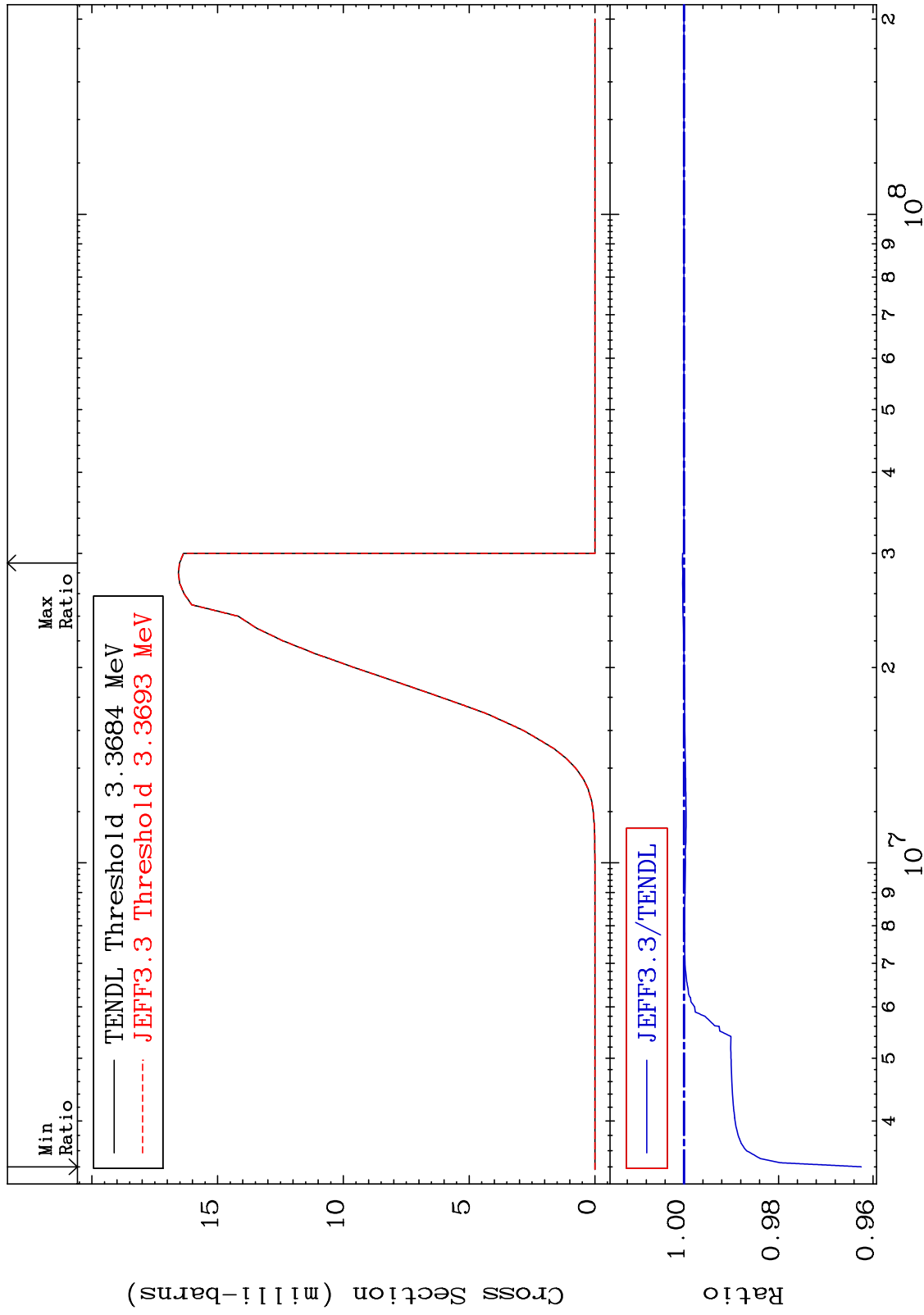
MAT 6925

(n,d)

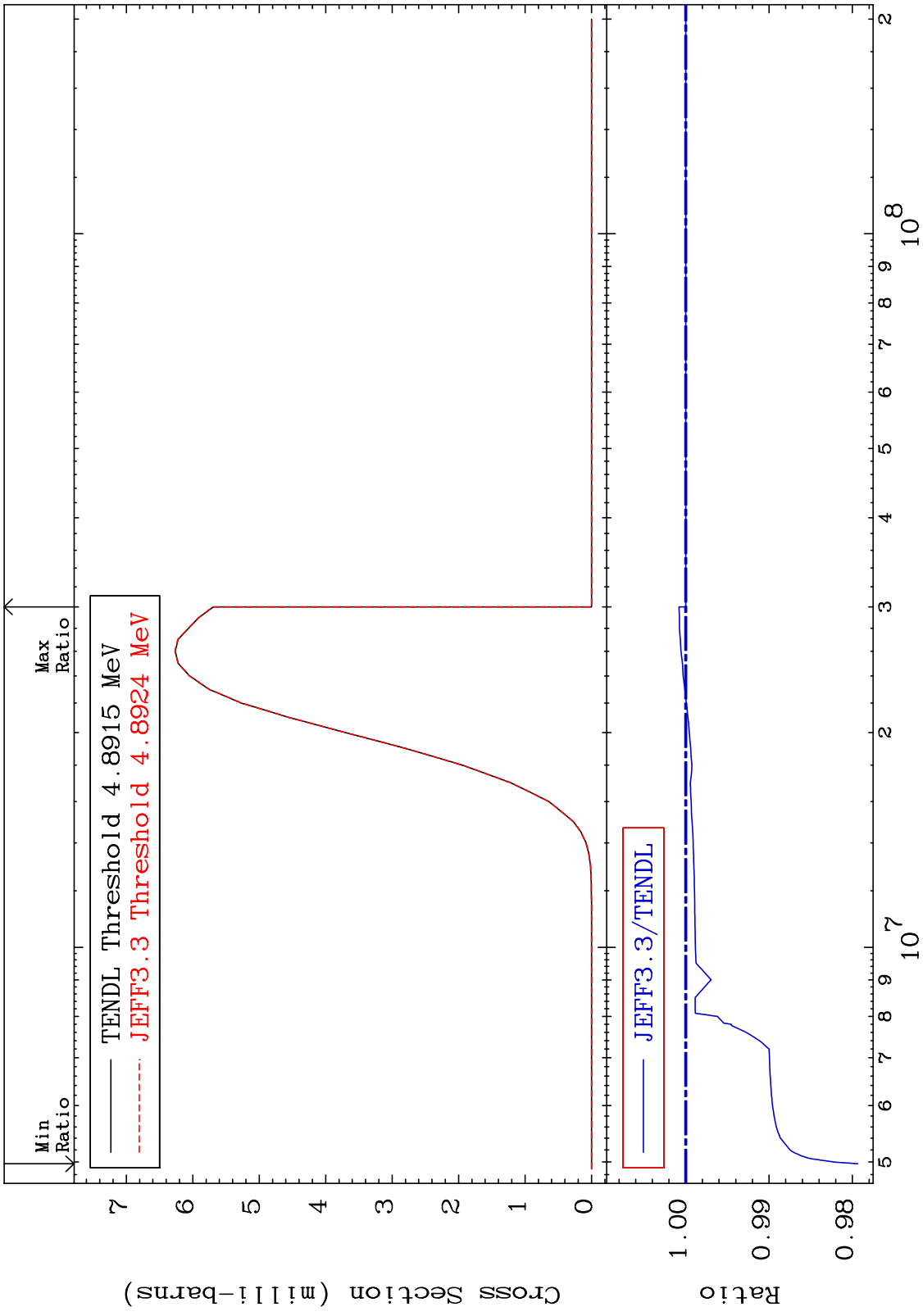
69-Tm-169

Cross Section

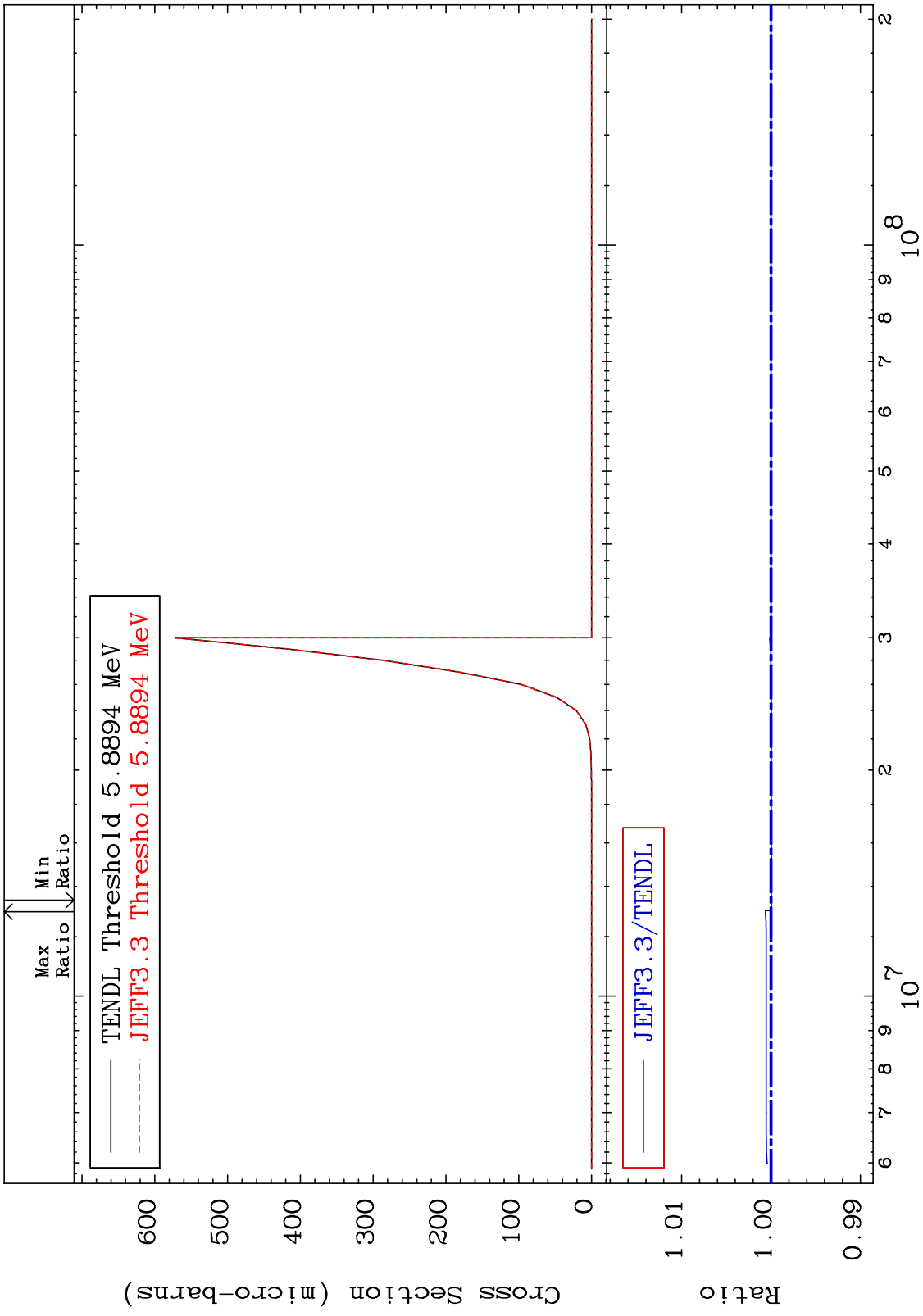
-3.752 To 0.033 %



MAT 6925 (n, t) 69-Tm-169
Cross Section -2.065 To 0.080 %



MAT 6925 (n, He-3) 69-Tm-169
 Cross Section -0.004 To 0.062 %



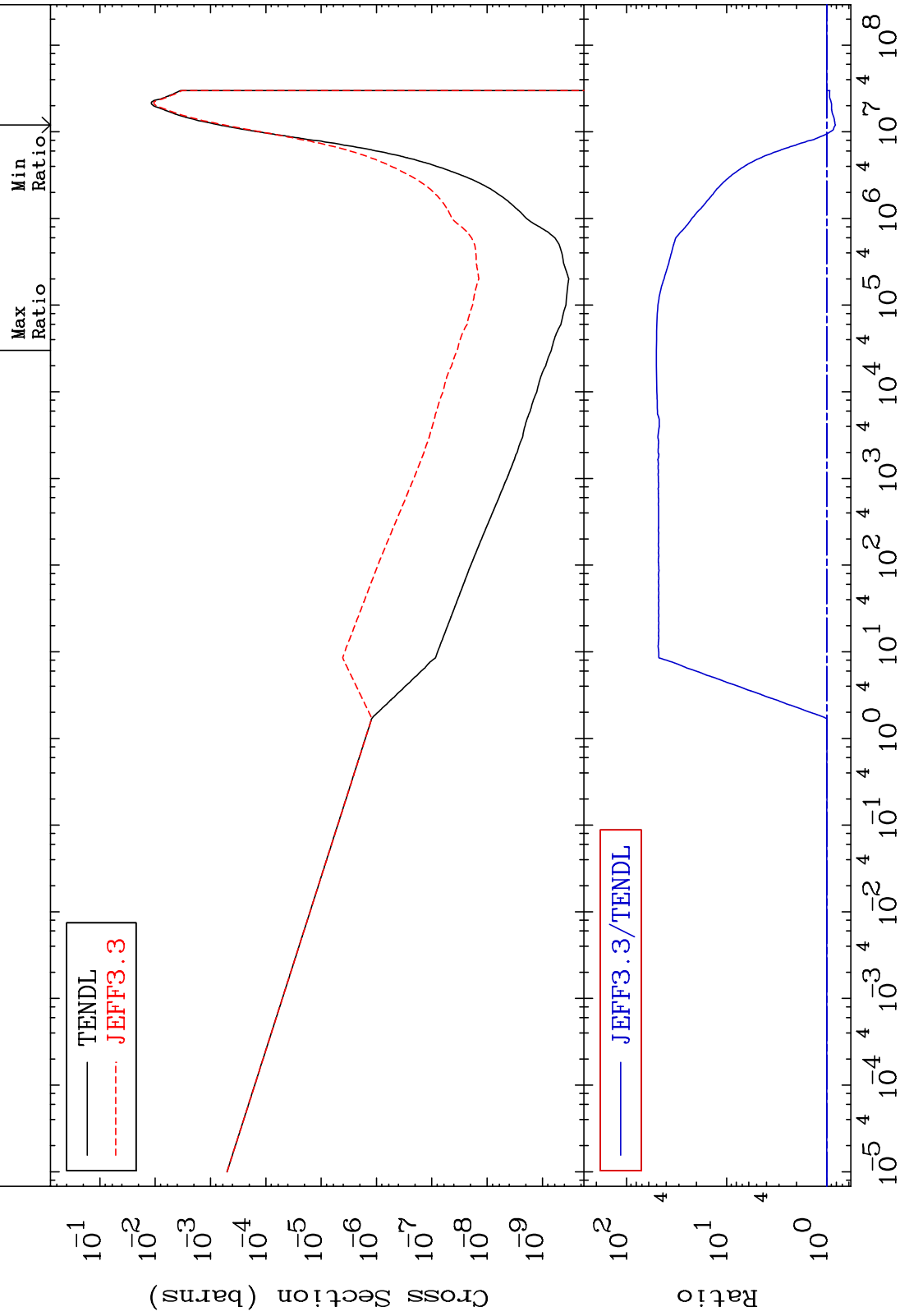
MAT 6925

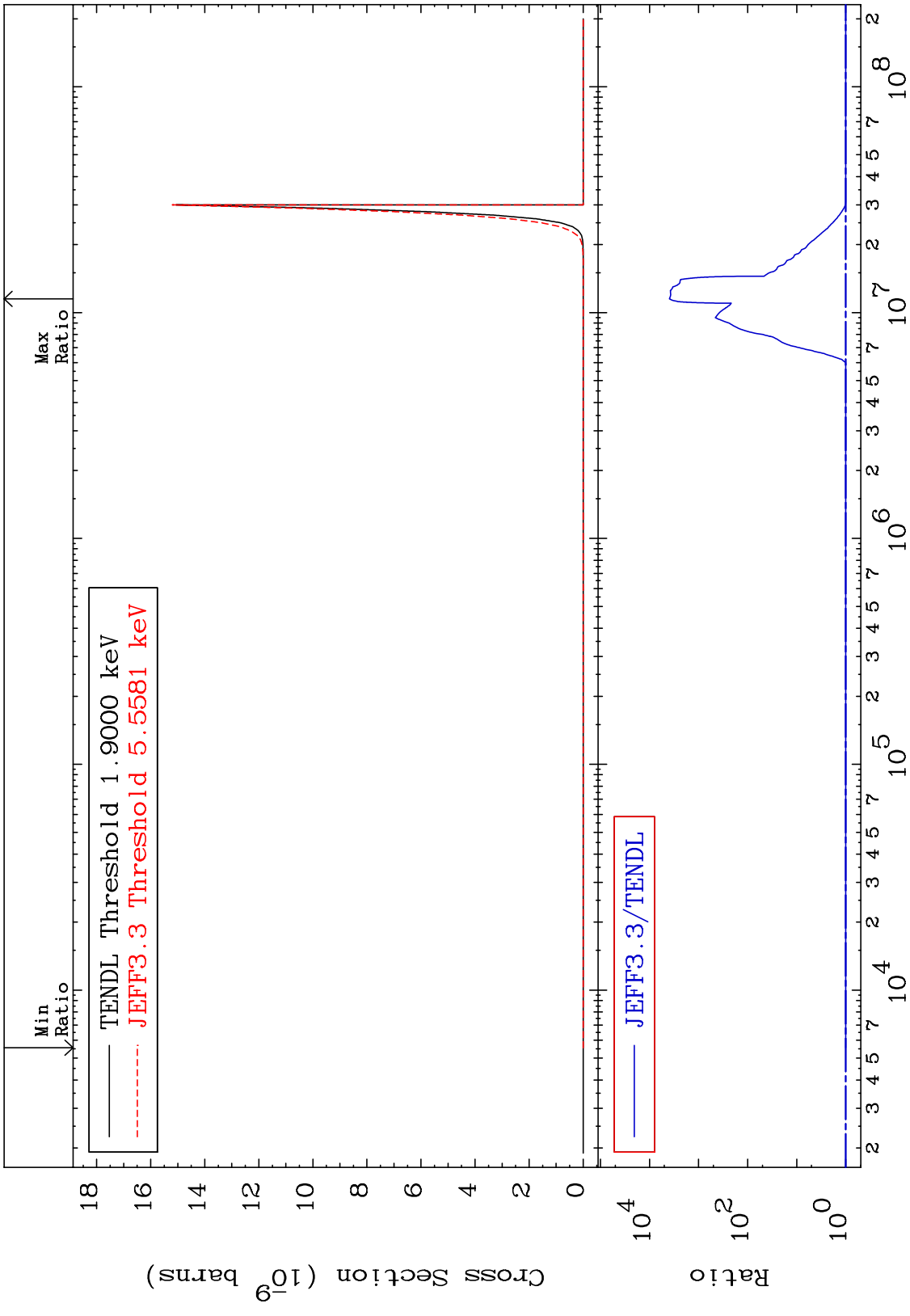
(n, α)

69-Tm-169

-18.33 To 4922. %

Cross Section





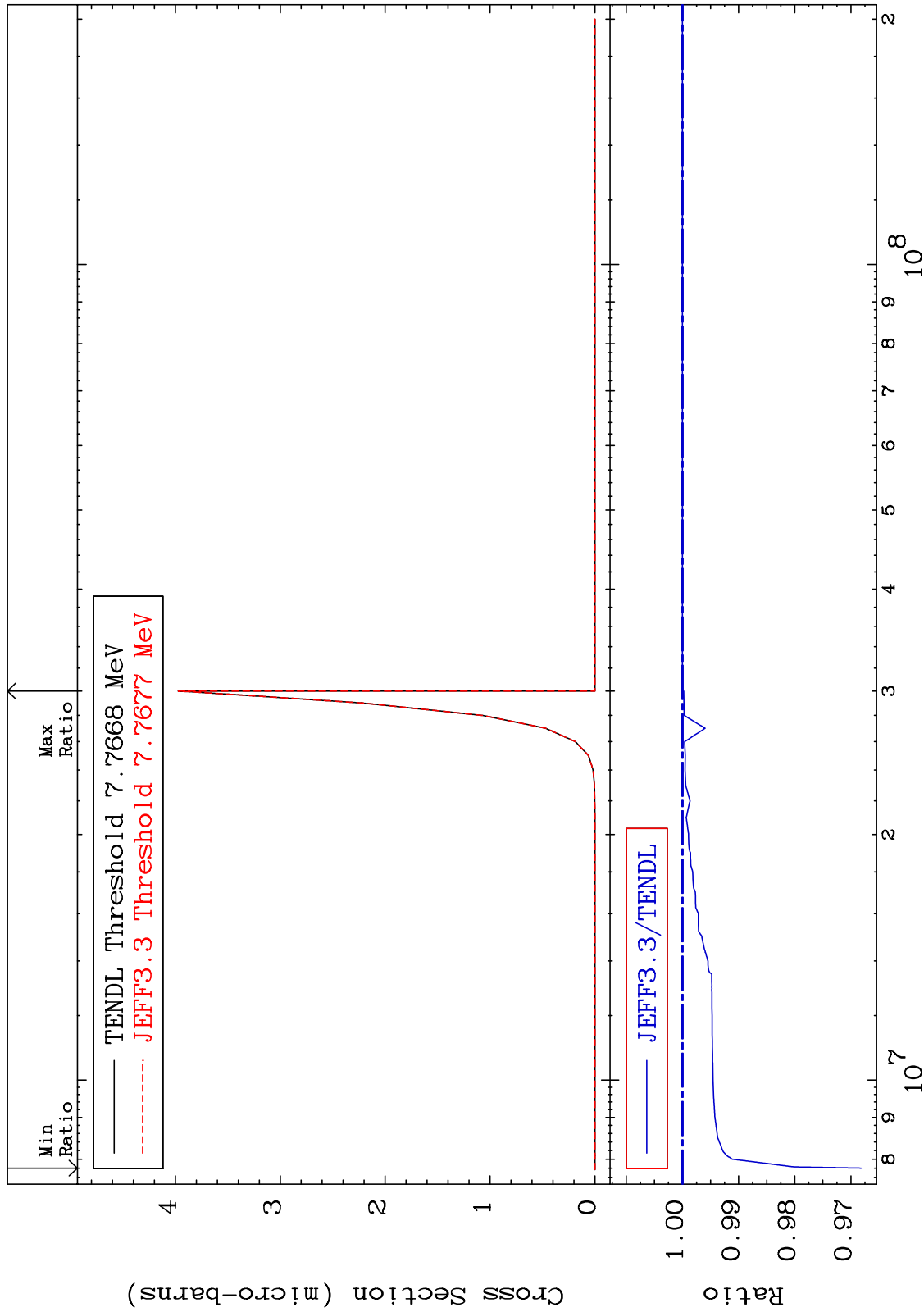
MAT 6925

(n,2p)

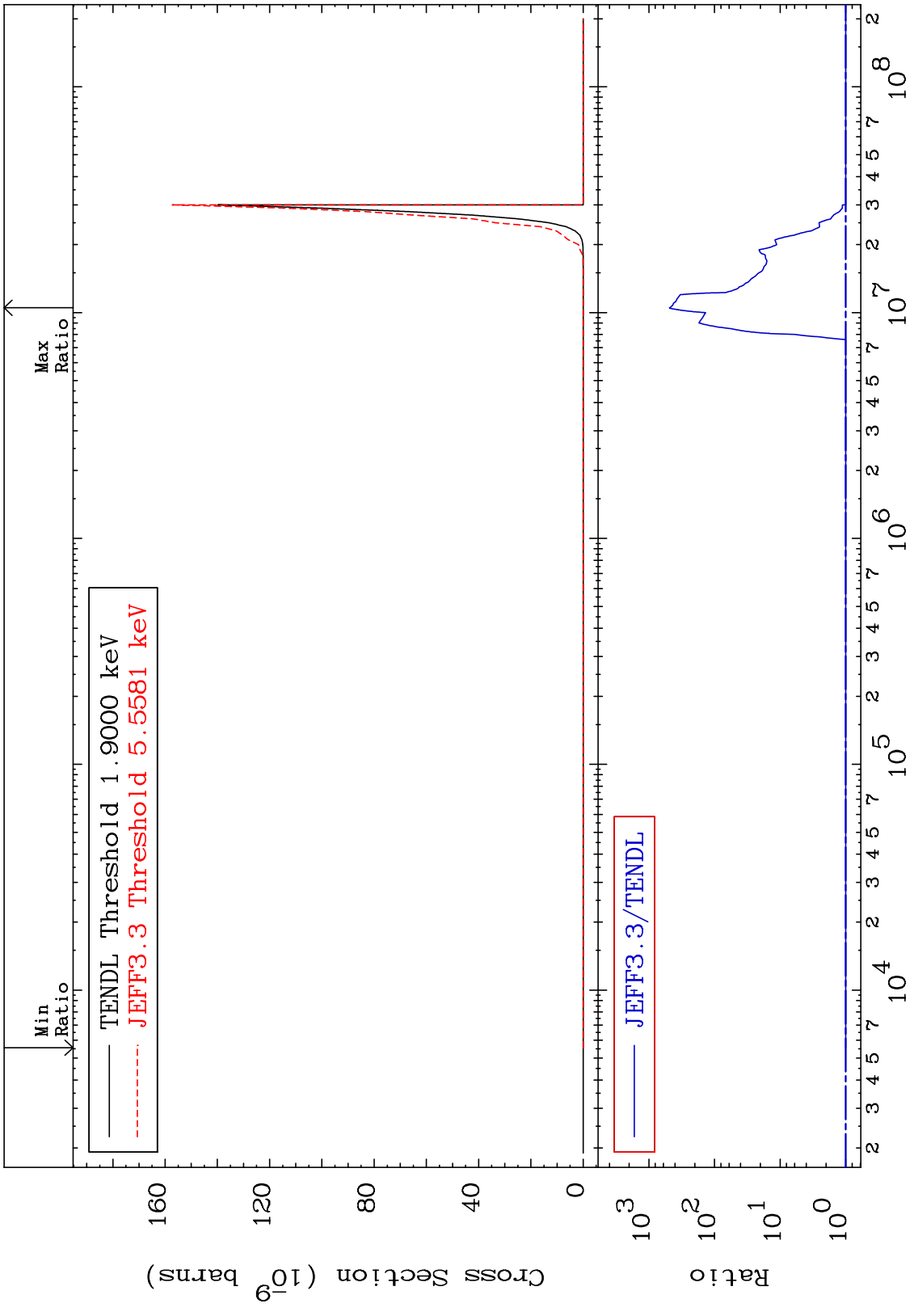
69-Tm-169

-3.184 To 0.000 %

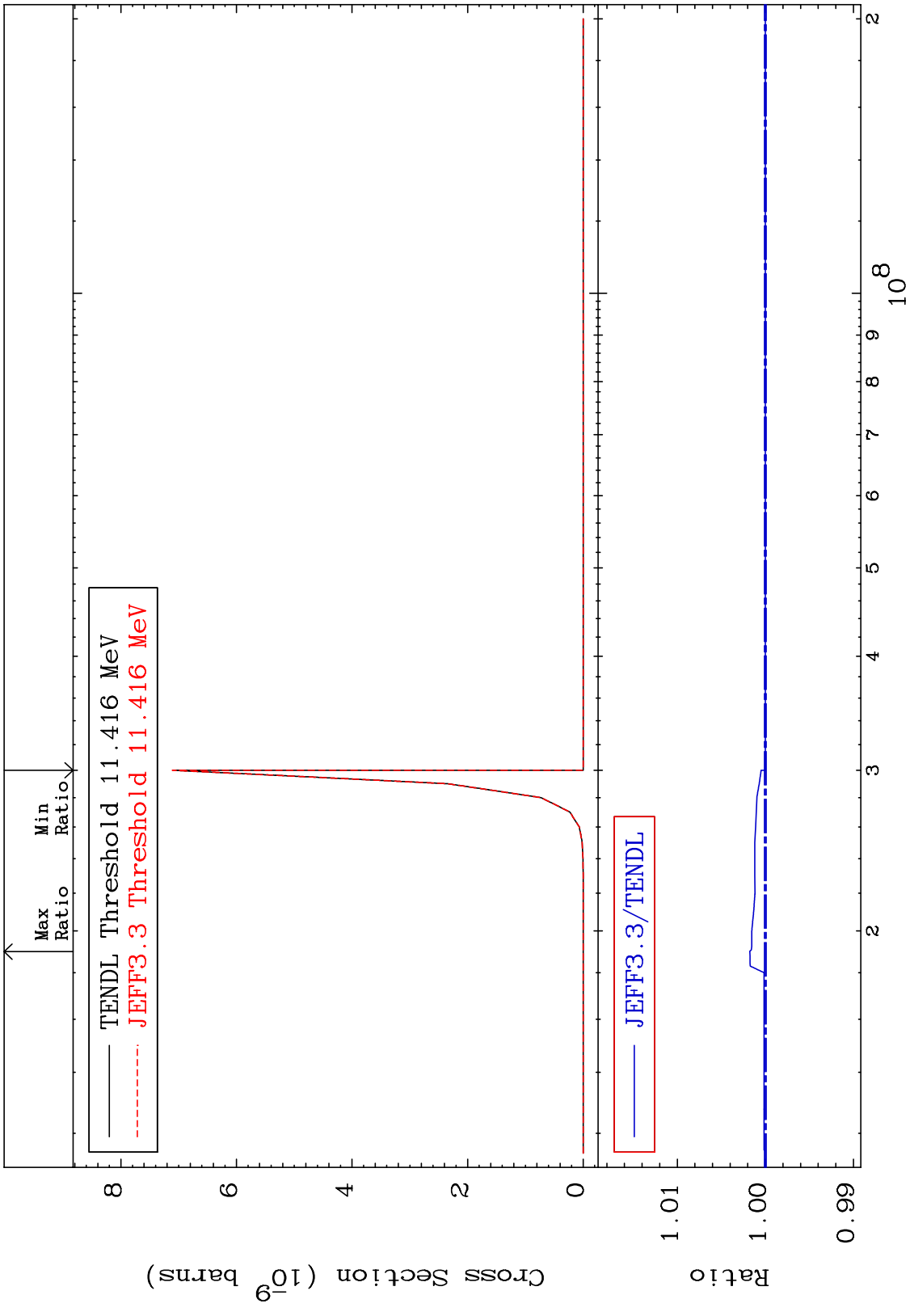
Cross Section



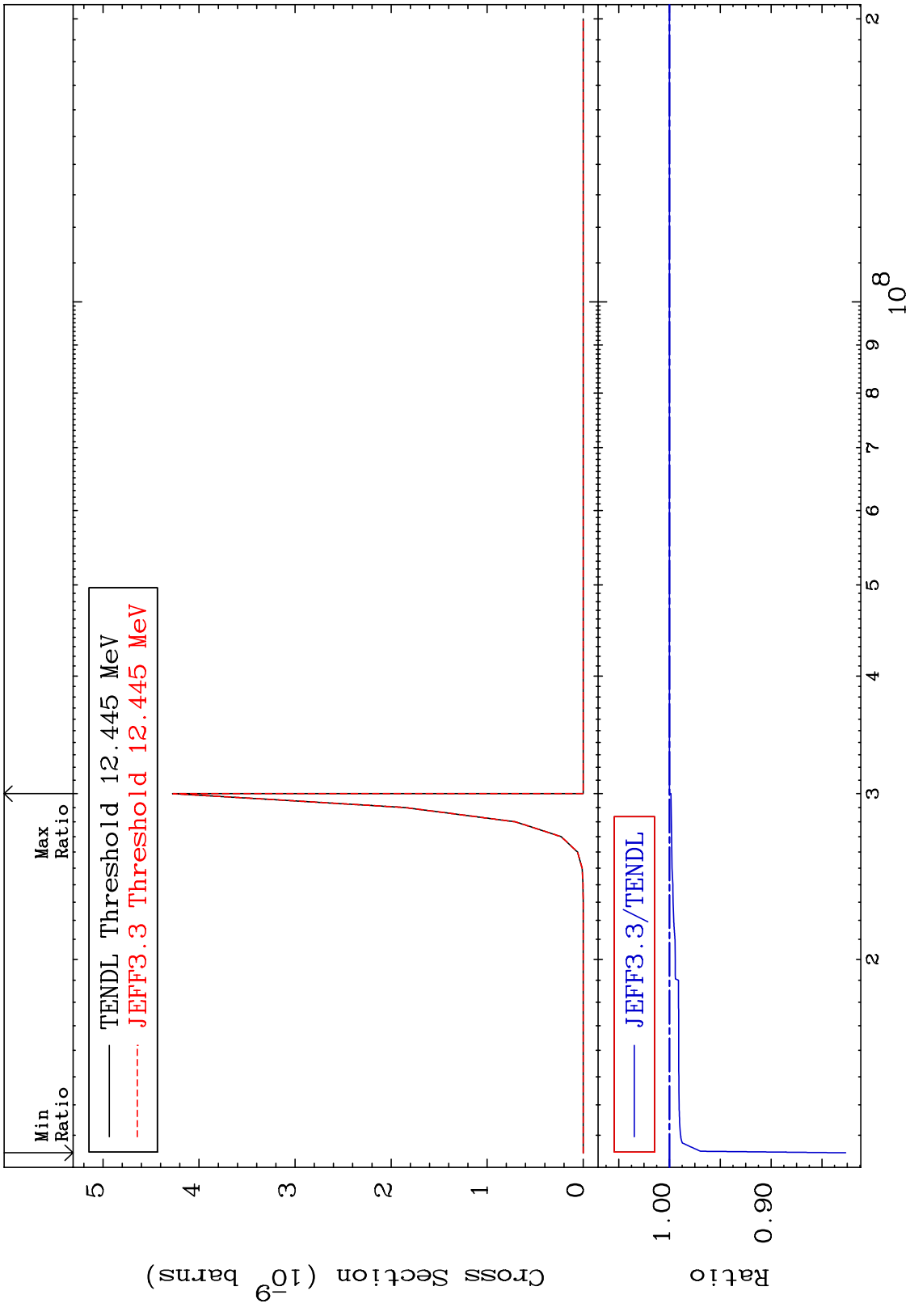
MAT 6925 (n,p) α 69-Tm-169
 Cross Section To 9999. %



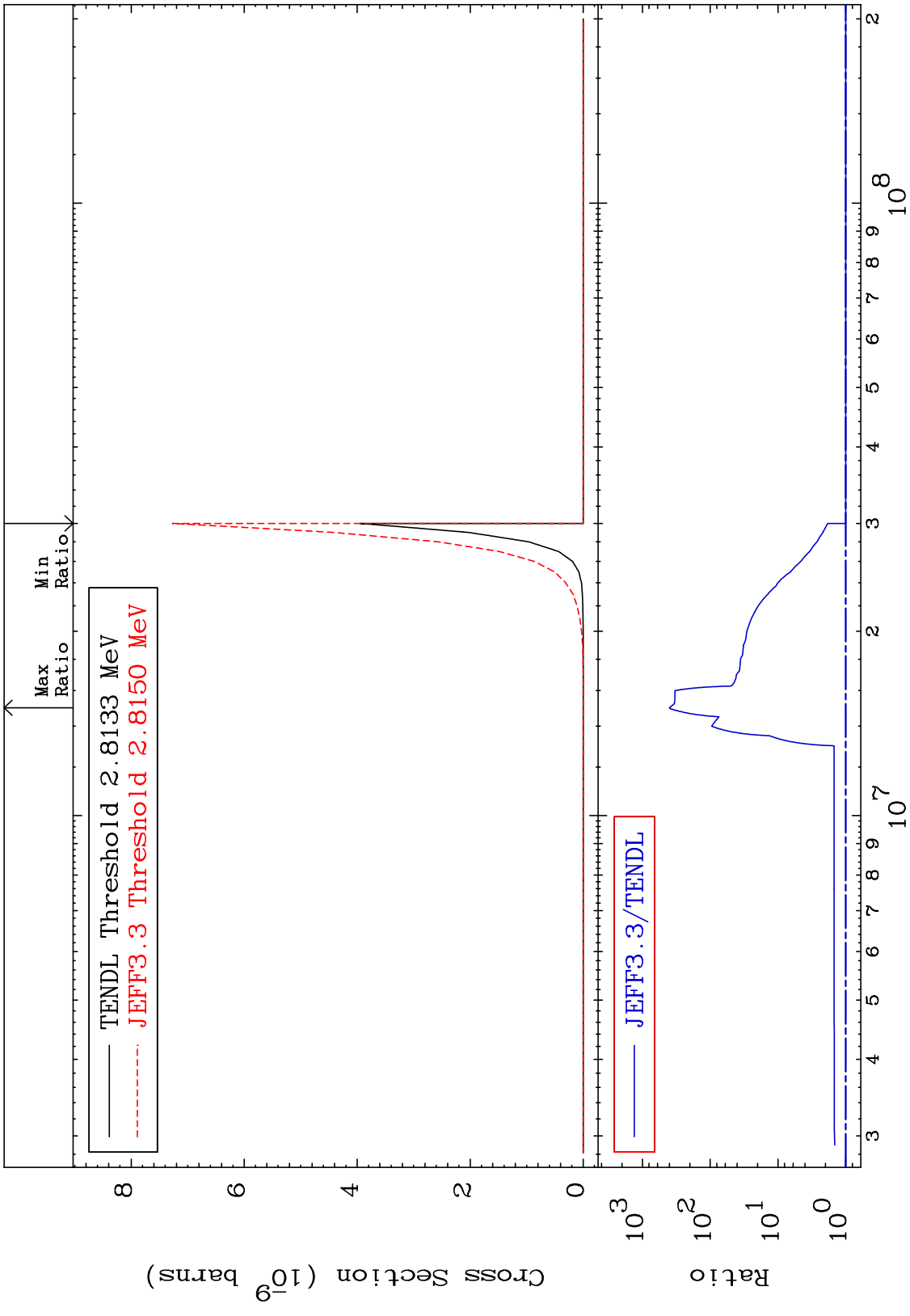
MAT 6925 (n,p) d 69-Tm-169
 Cross Section 0.000 To 0.176 %



MAT 6925 (n,p) t 69-Tm-169
Cross Section -17.35 To 0.000 %



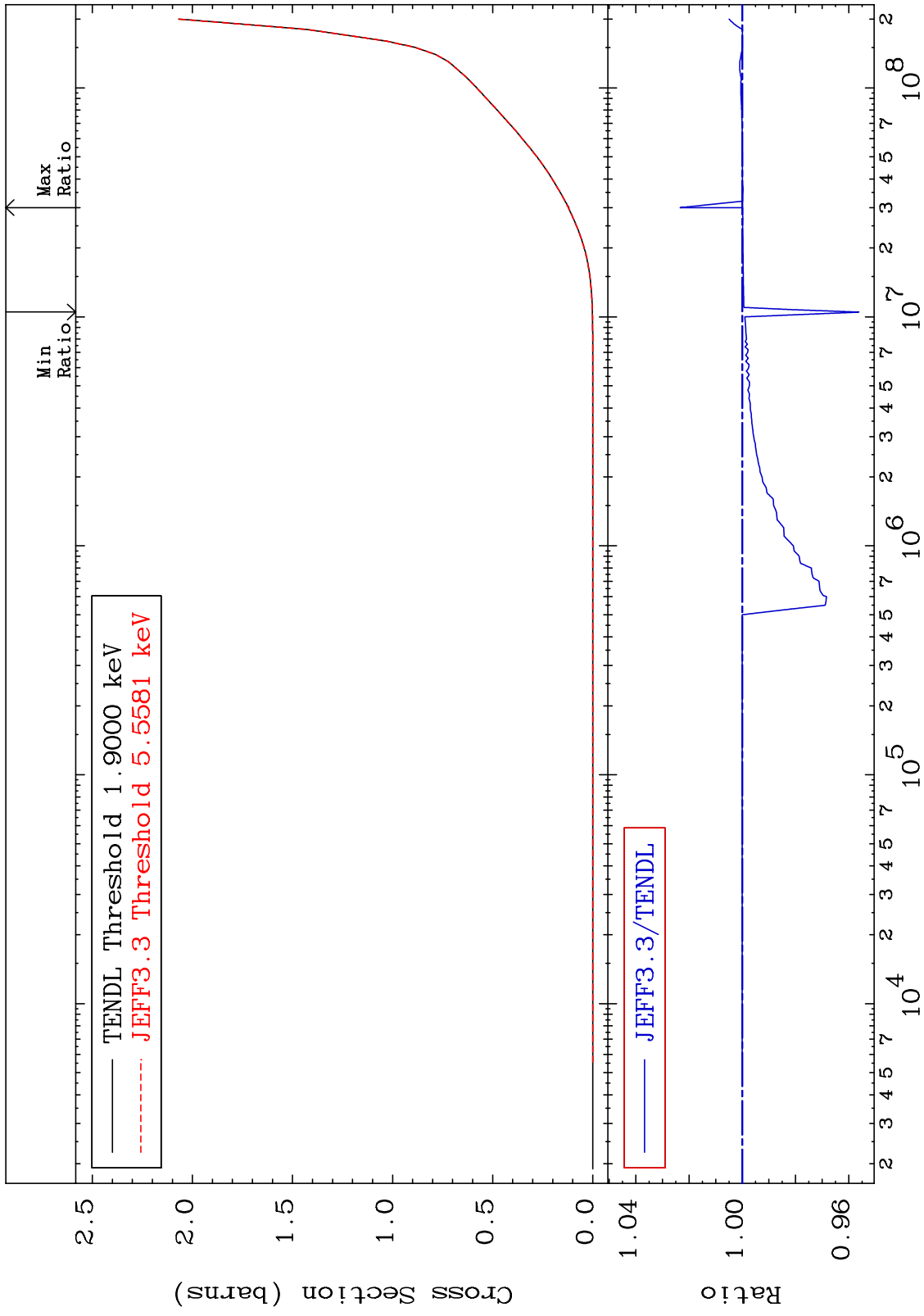
MAT 6925 (n,d) α 69-Tm-169
 Cross Section 0.000 To 9999. %



MAT 6925

Hydrogen Production
Cross Section

69-Tm-169
-4.380 To 2.332 %



62

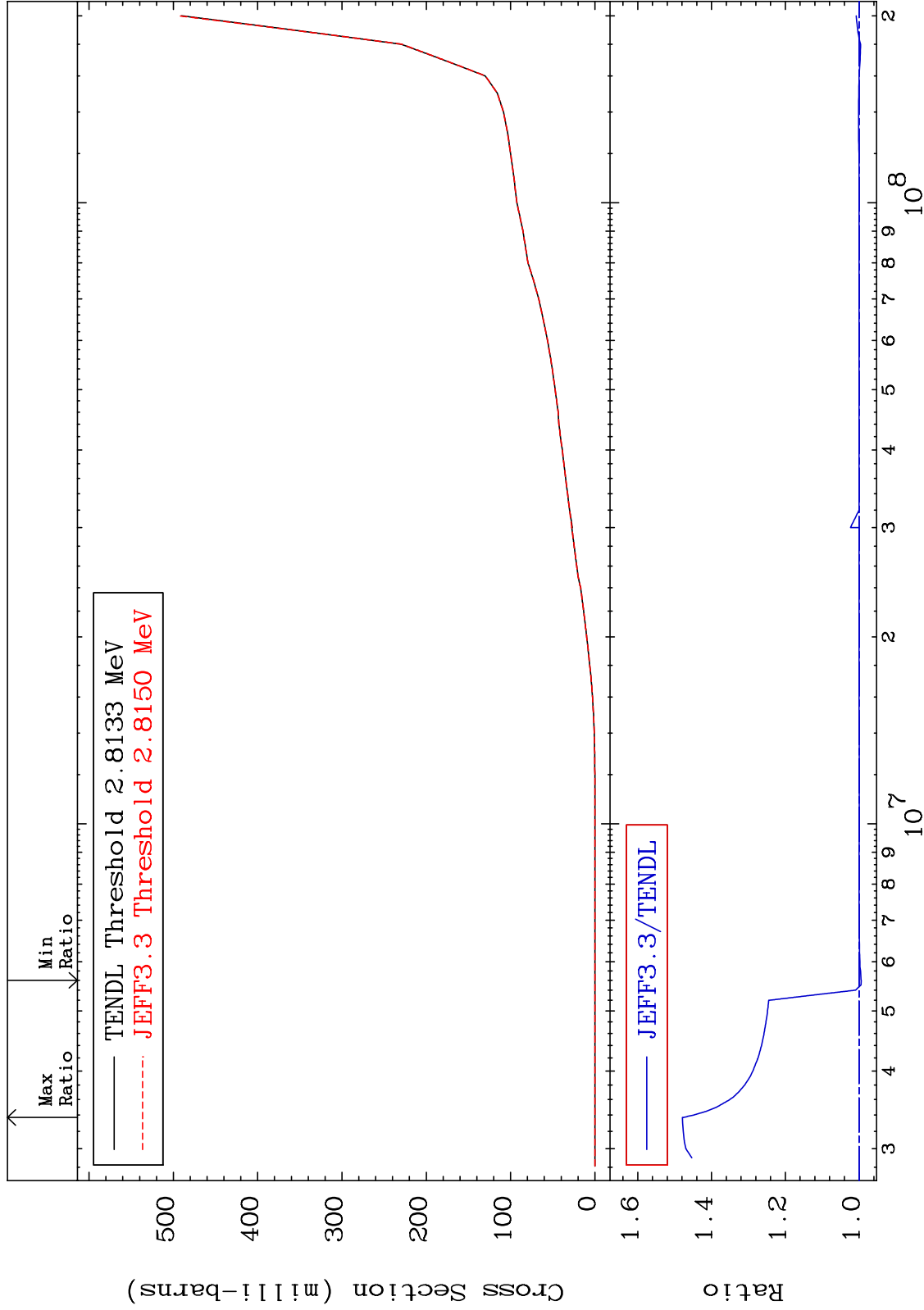
Incident Energy (eV)

69-Tm-169

MAT 6925

Deuterium Production
Cross Section

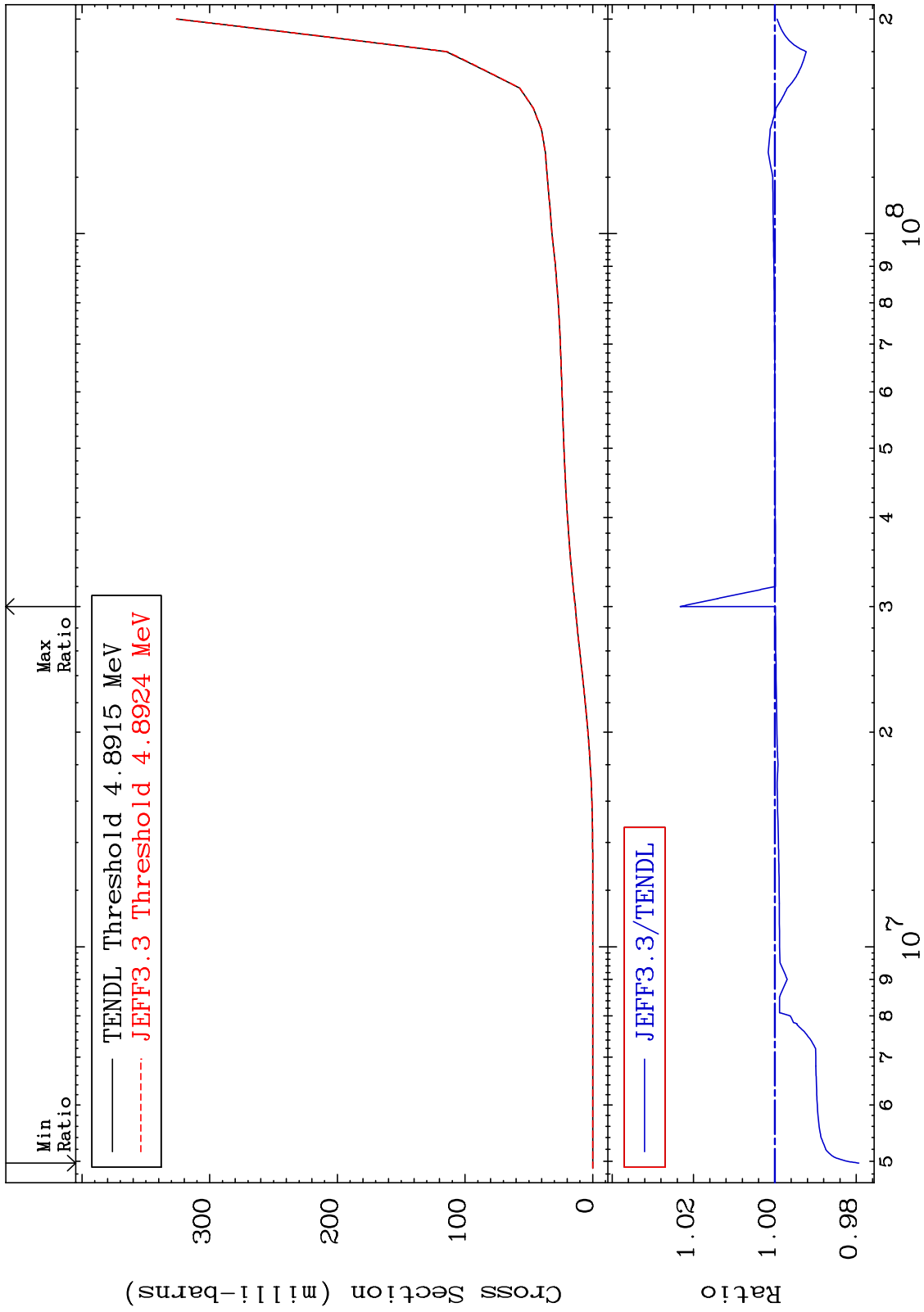
69-Tm-169
-0.598 To 47.87 %



MAT 6925

Tritium Production
Cross Section

69-Tm-169
-2.065 To 2.326 %



64

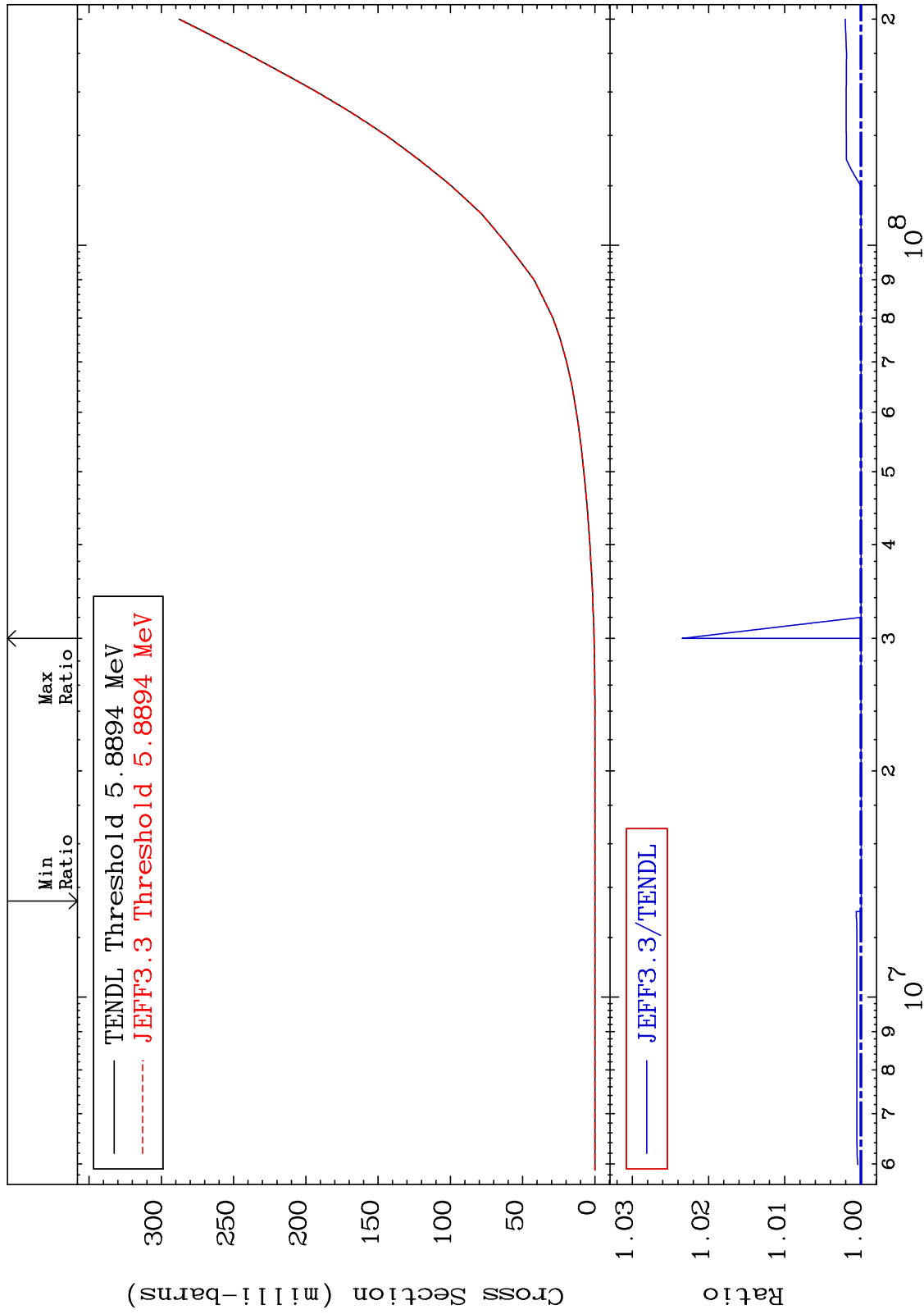
Incident Energy (eV)

69-Tm-169

MAT 6925

He-3 Production
Cross Section

69-Tm-169
-0.004 To 2.342 %



65

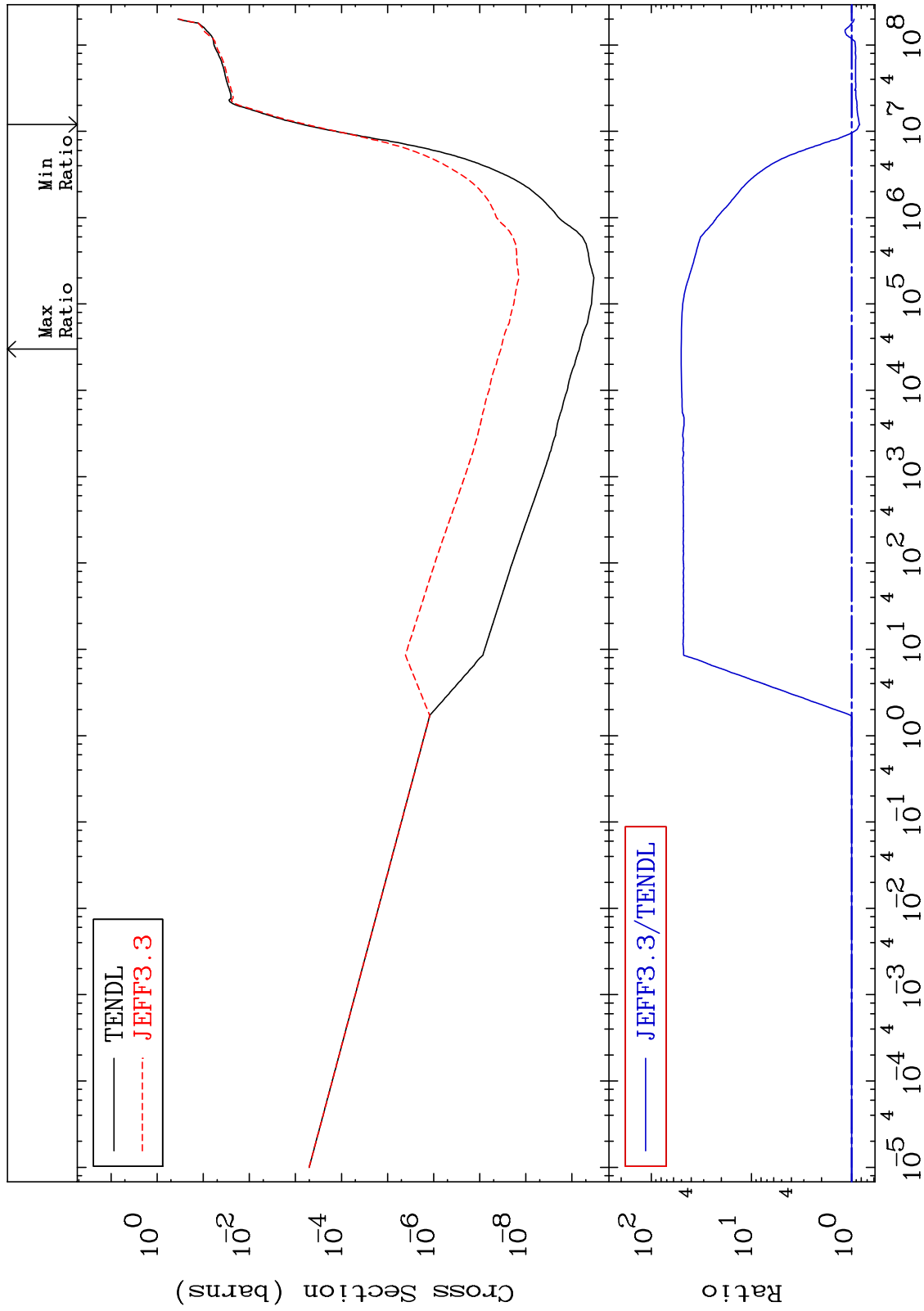
Incident Energy (eV)

69-Tm-169

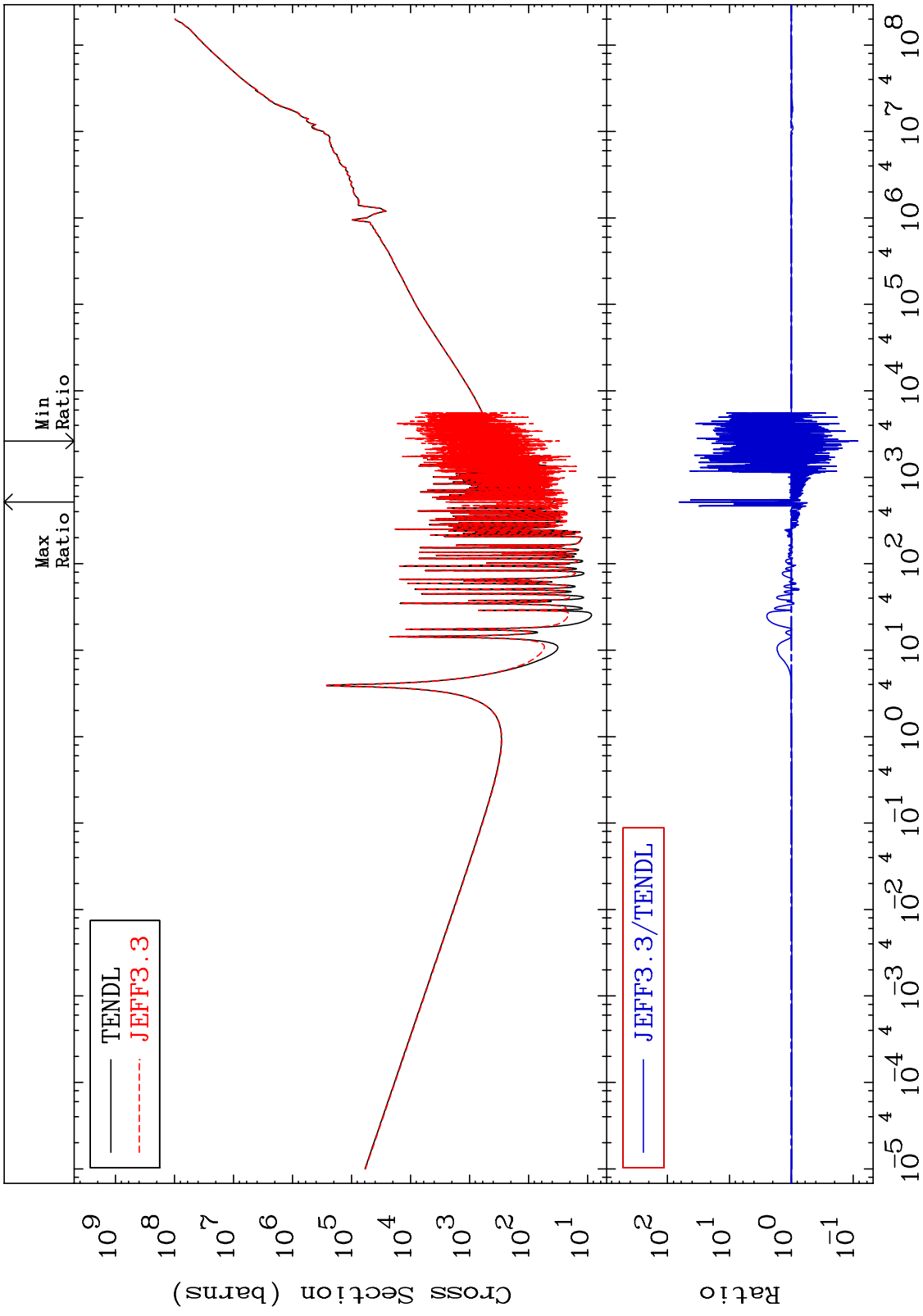
MAT 6925

He-4 Production
Cross Section

69-Tm-169
-17.10 To 4922. %



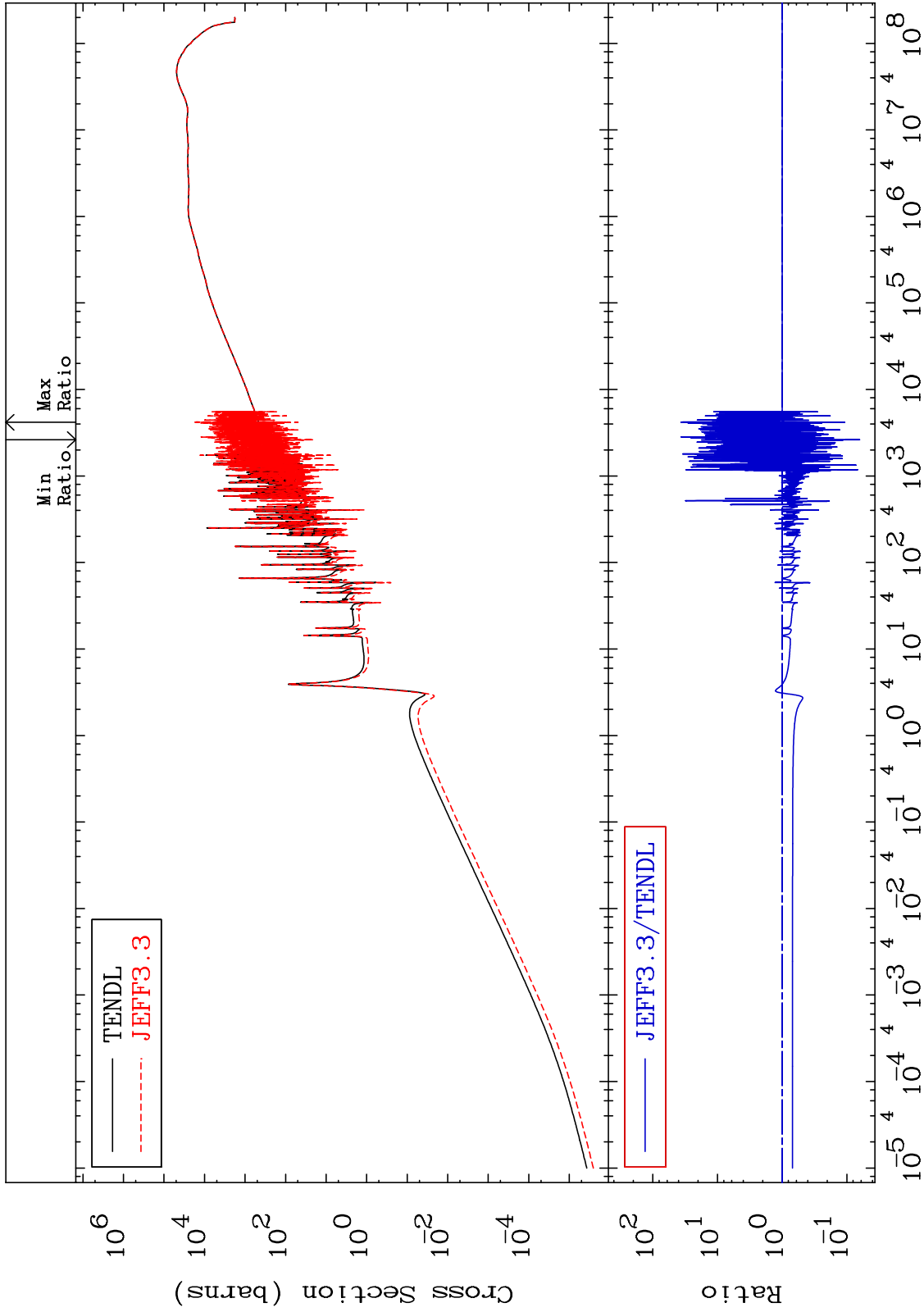
MAT 6925 Kerma total (eV-barns) 69-Tm-169
Cross Section -91.59 To 6403. %

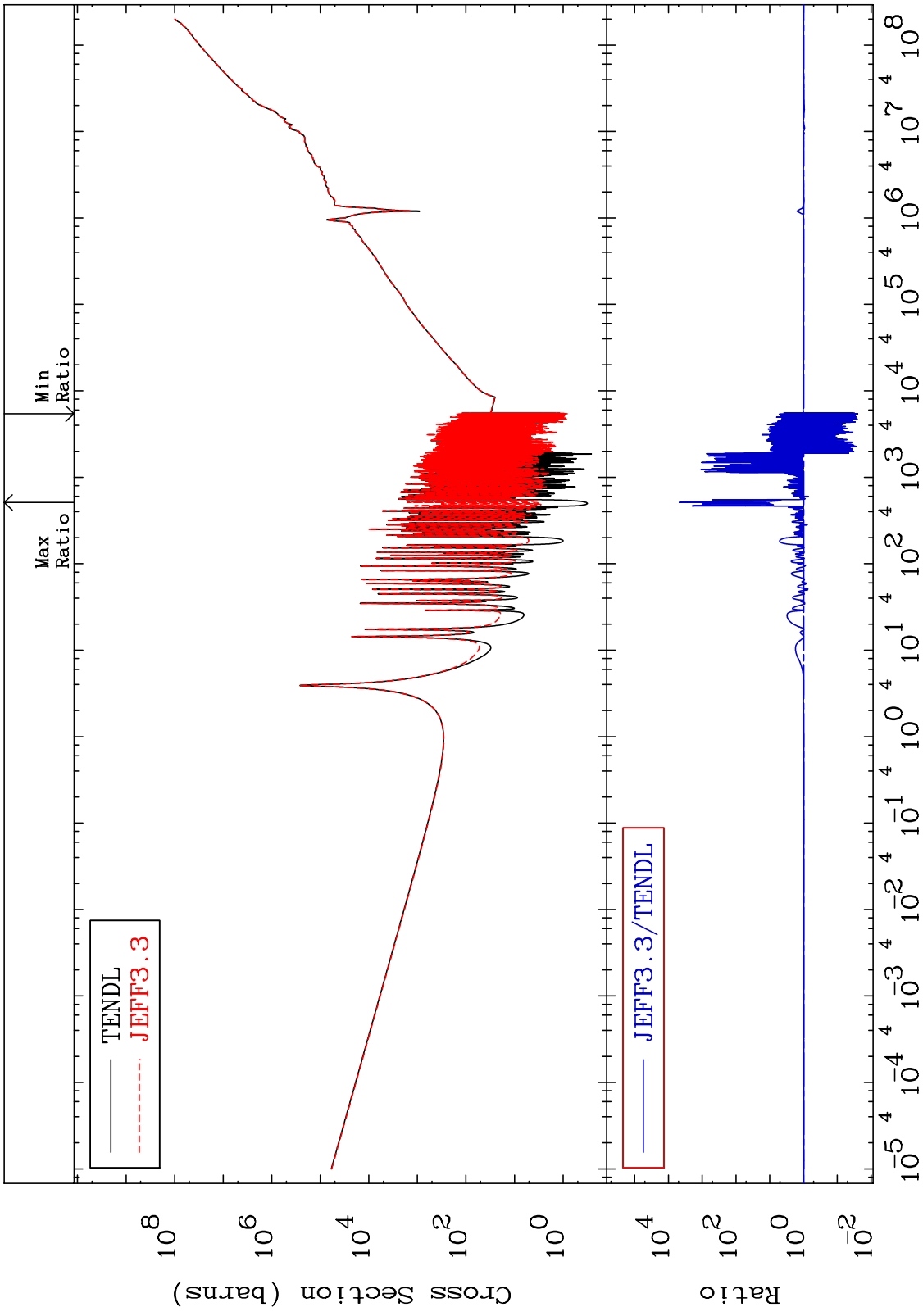


MAT 6925

Kerma elastic
Cross Section

69-Tm-169
-93.67 To 3584. %

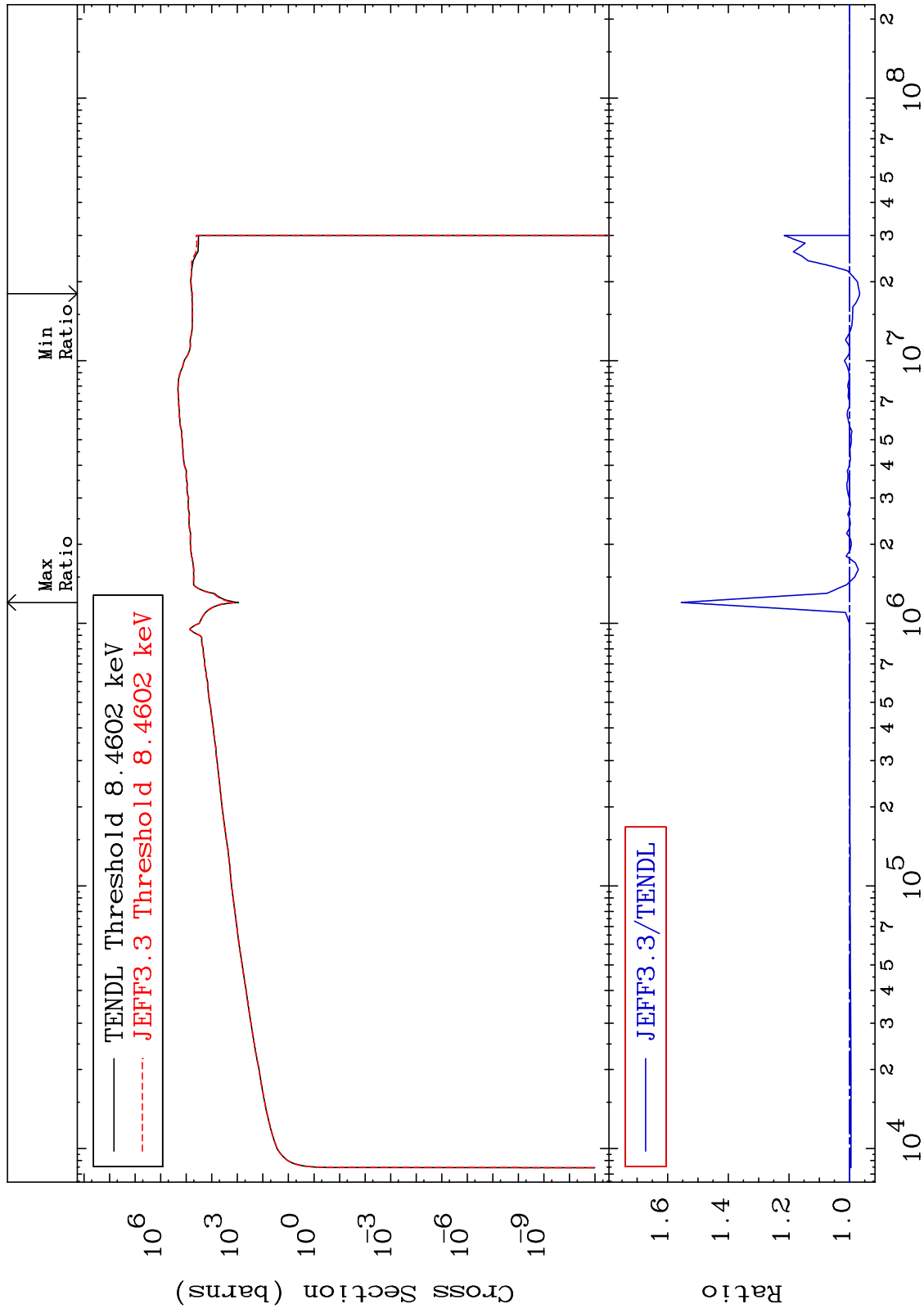




MAT 6925

Kerma inelastic (mt51-91)
Cross Section

69-Tm-169
-3.339 To 55.48 %



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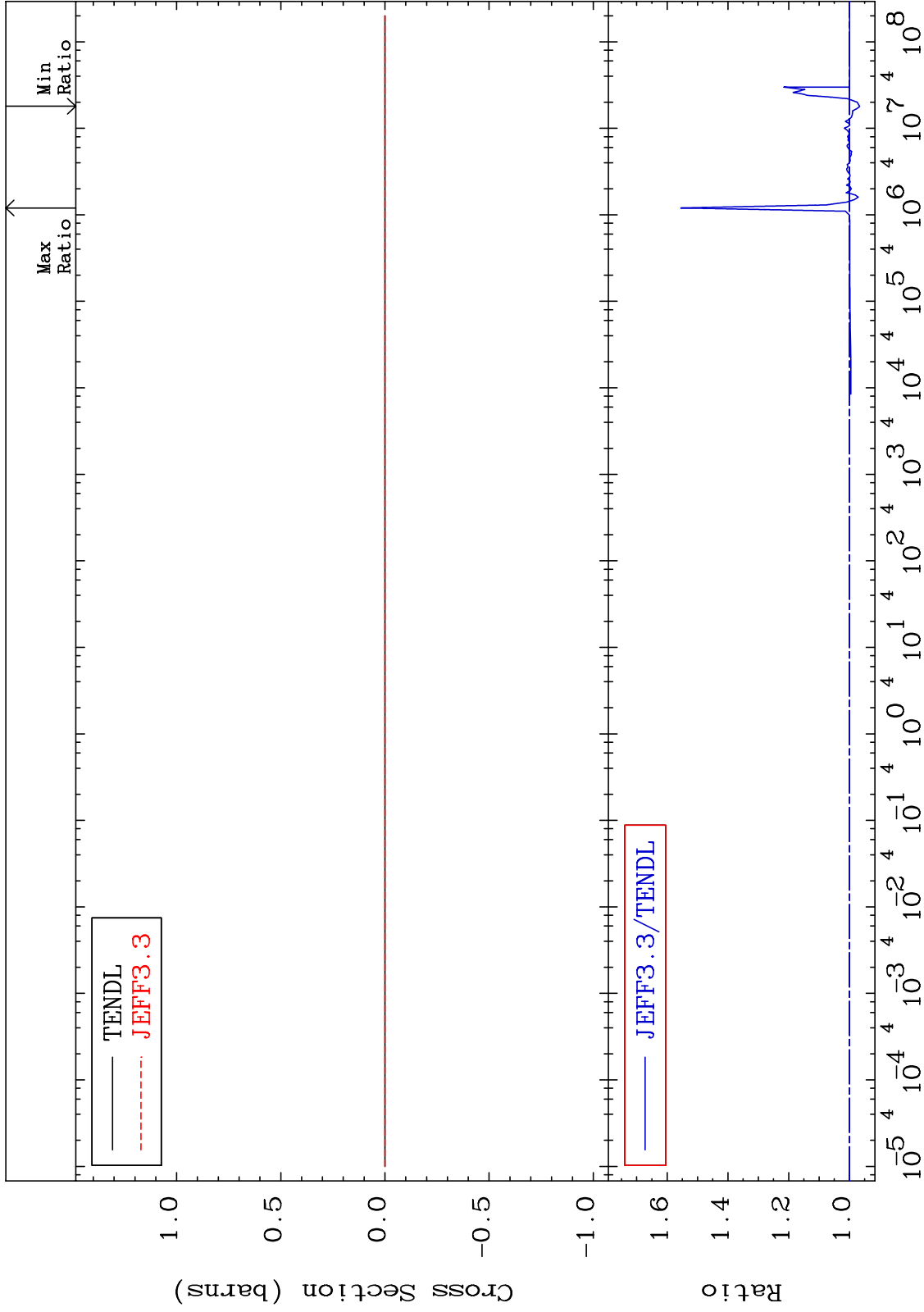
Incident Energy (eV)

69-Tm-169

MAT 6925

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

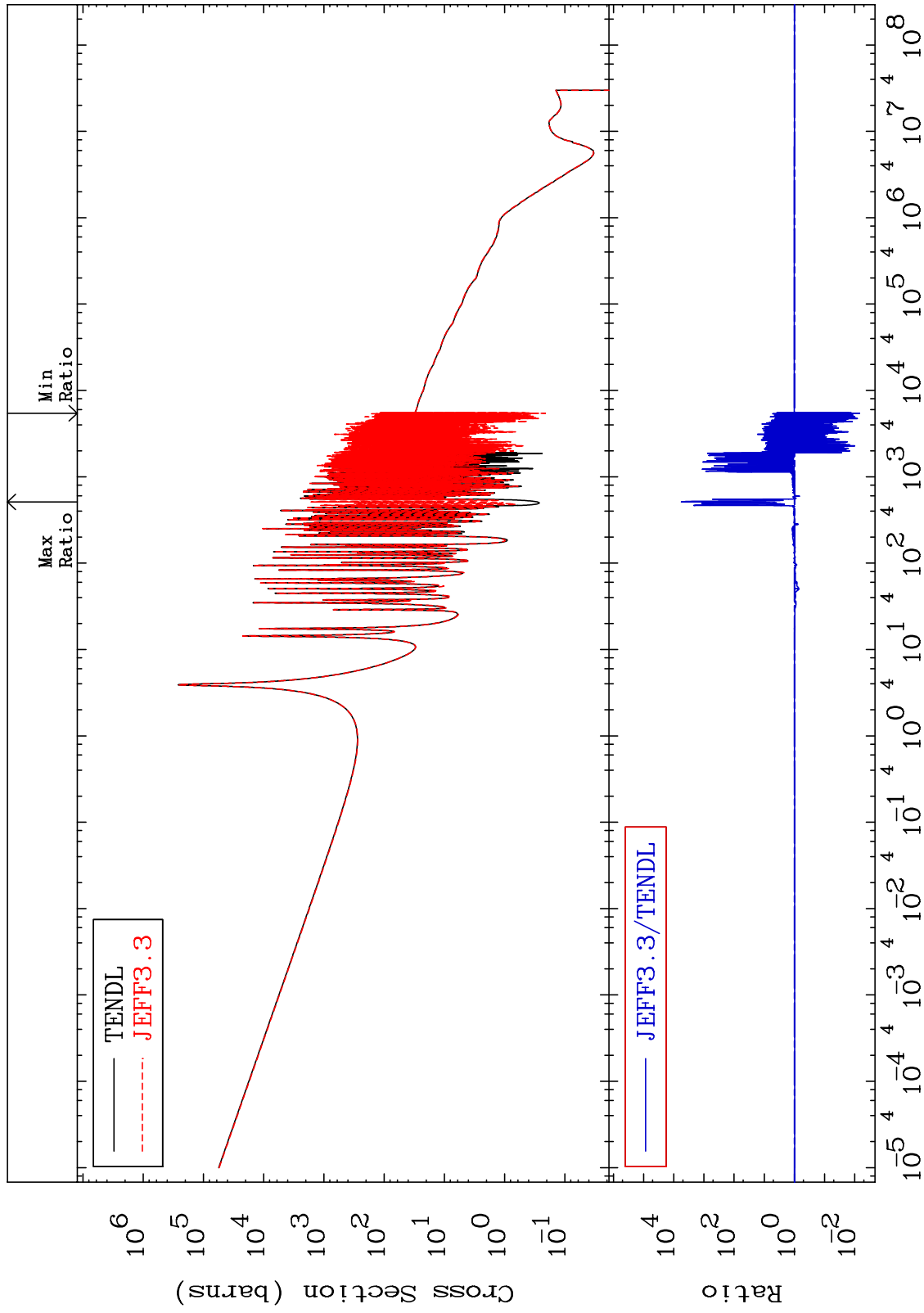
69-Tm-169
-3.339 To 55.48 %



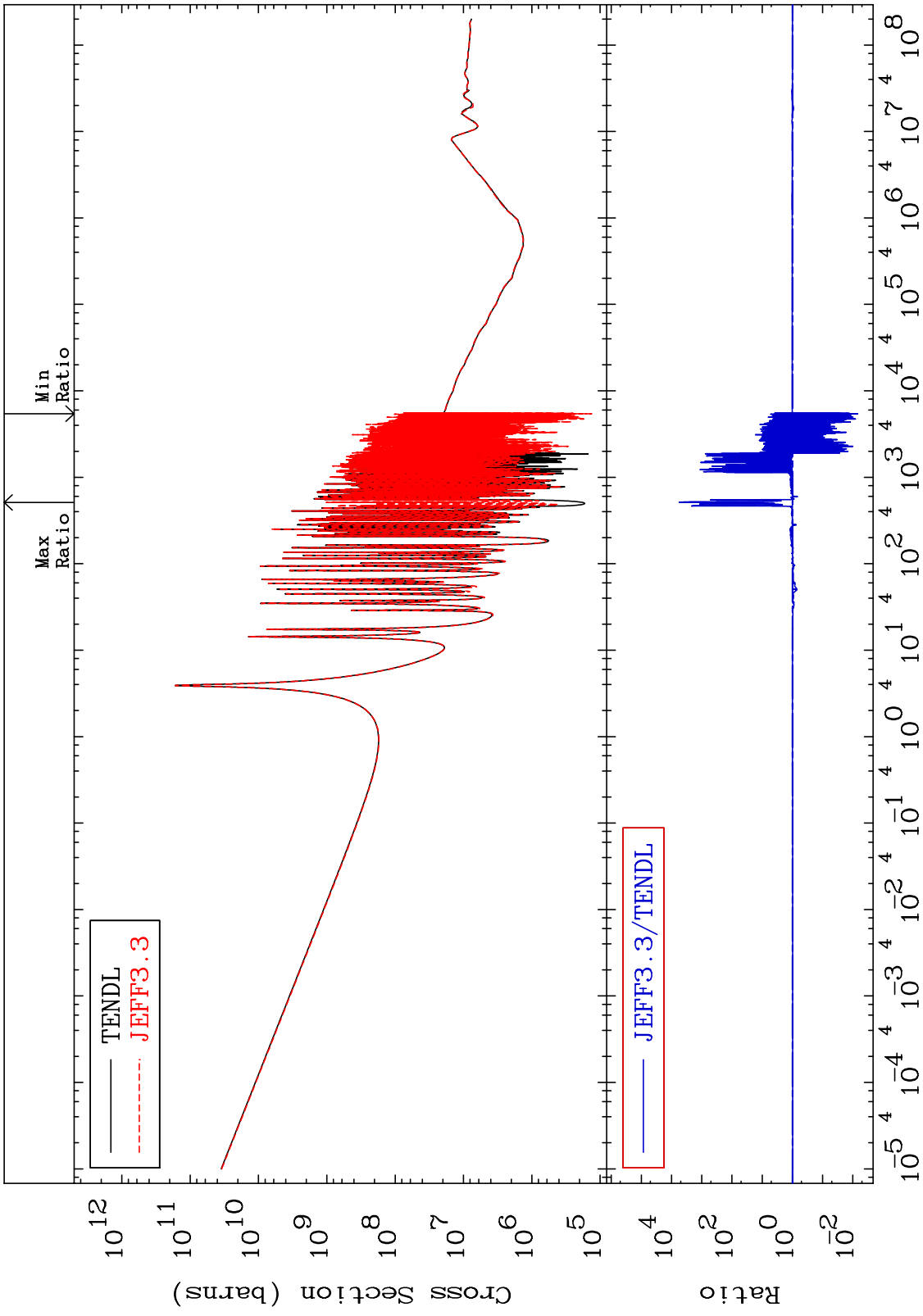
MAT 6925

Kerma capture (mt102)
Cross Section

69-Tm-169
-99.32 To 9999. %

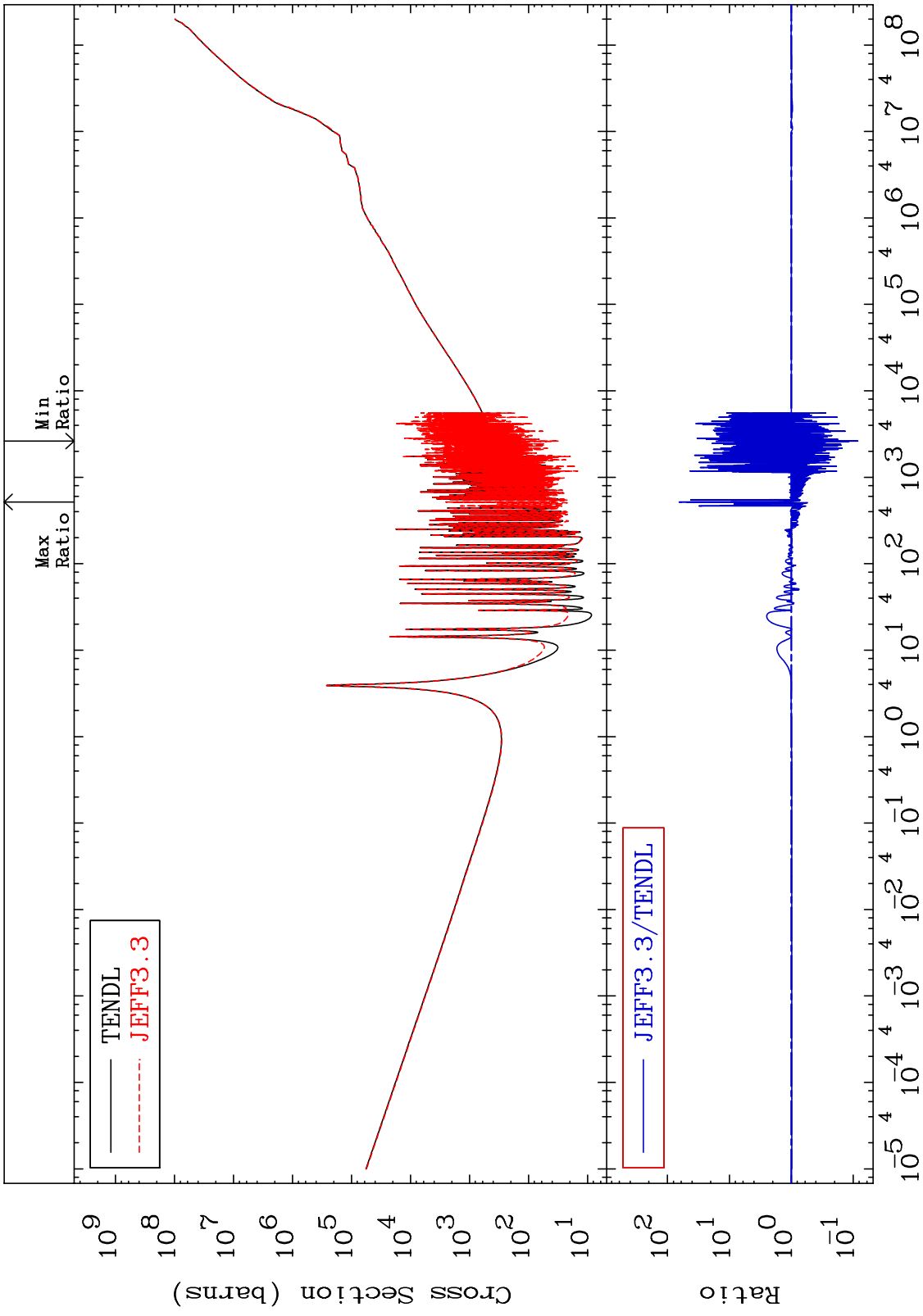


MAT 6925 69-Tm-169
Total photon (eV-barns) Cross Section -99.32 To 9999. %

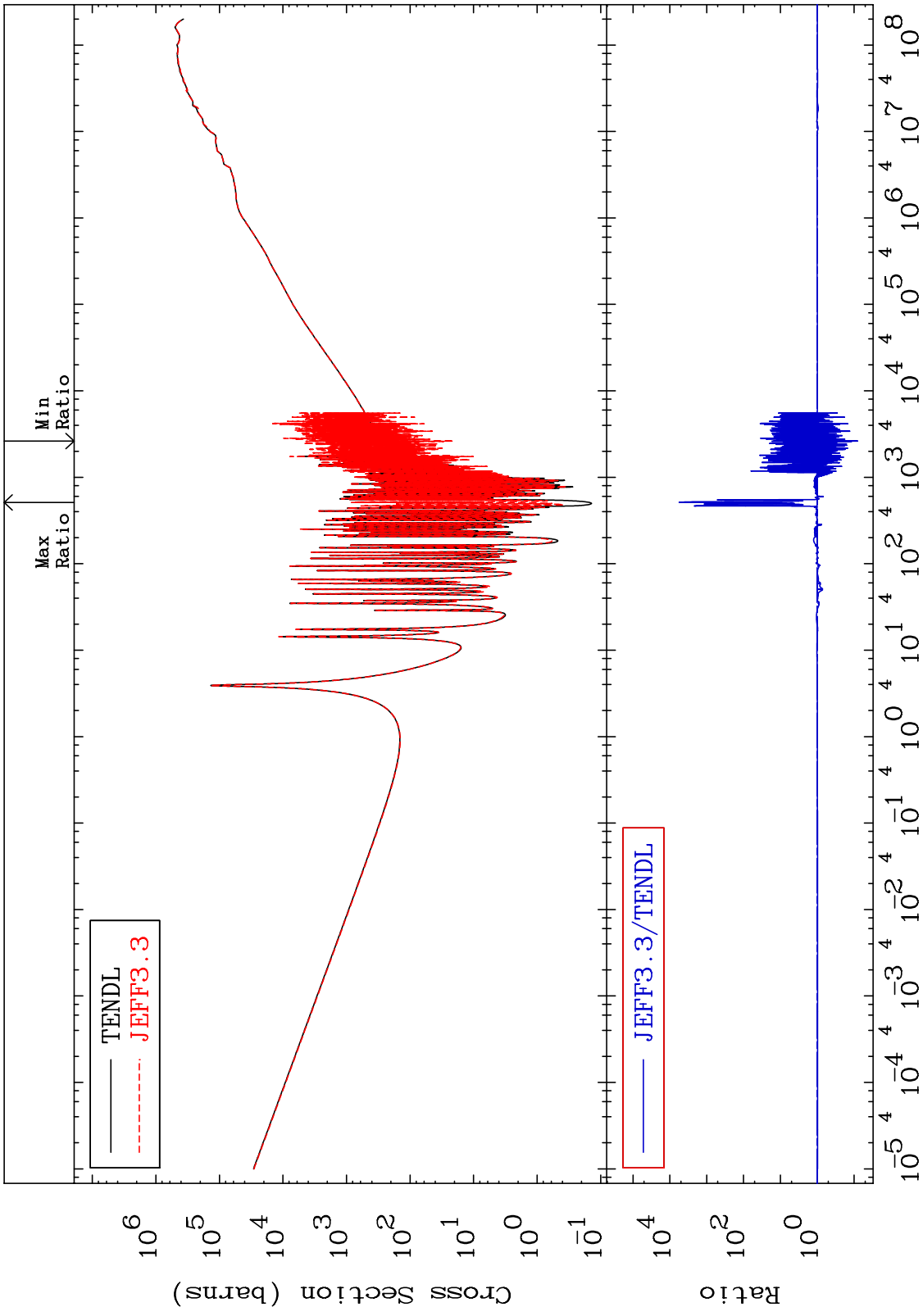


73 69-Tm-169

MAT 6925 Total kinematic kerma (high limit) 69-Tm-169
 Cross Section -91.58 To 6403. %



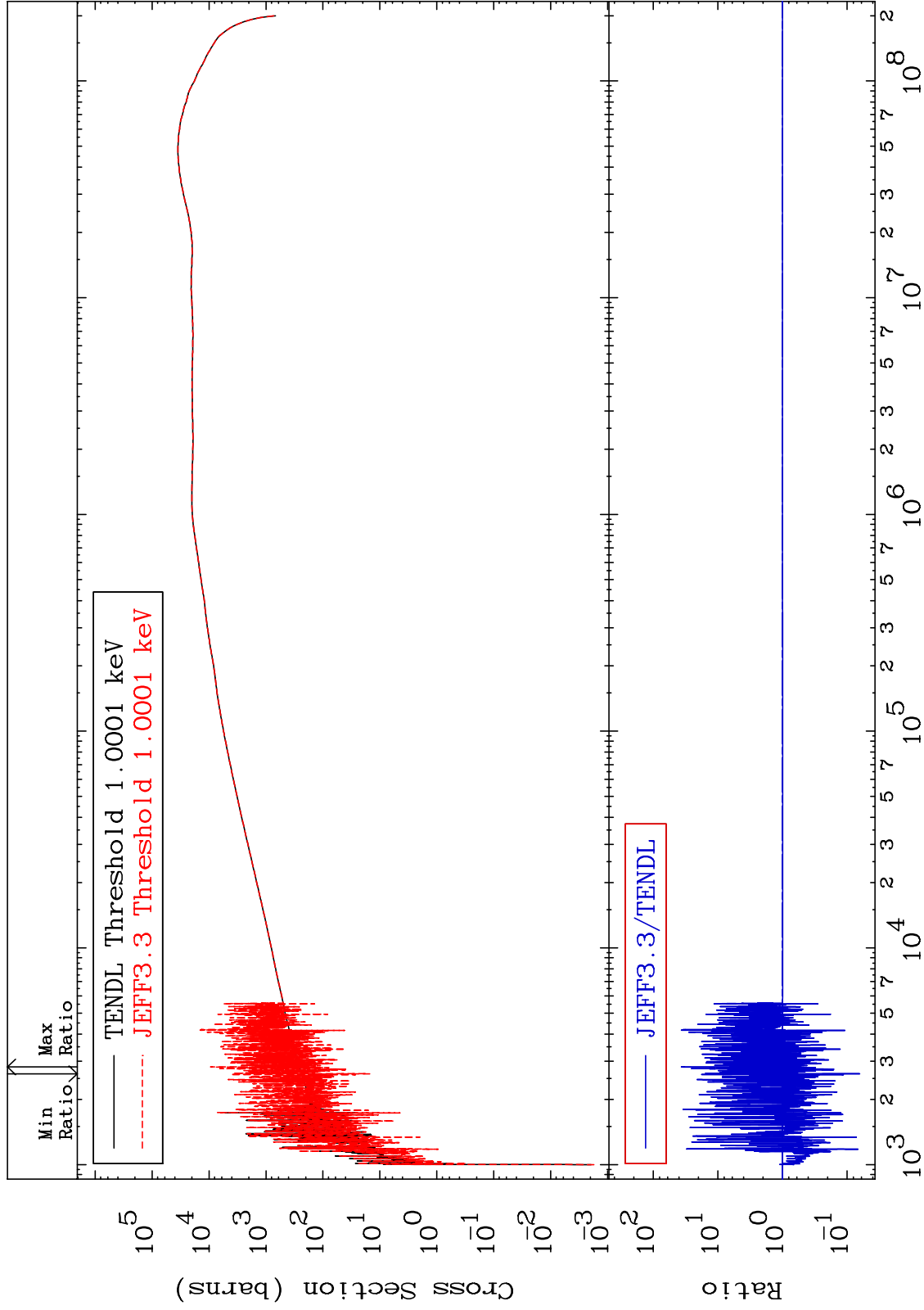
MAT 6925 Dpa total (eV-barns) 69-Tm-169
Cross Section -92.09 To 9999. %



MAT 6925

Dpa elastic (mt2)
Cross Section

69-Tm-169
-93.62 To 3597. %

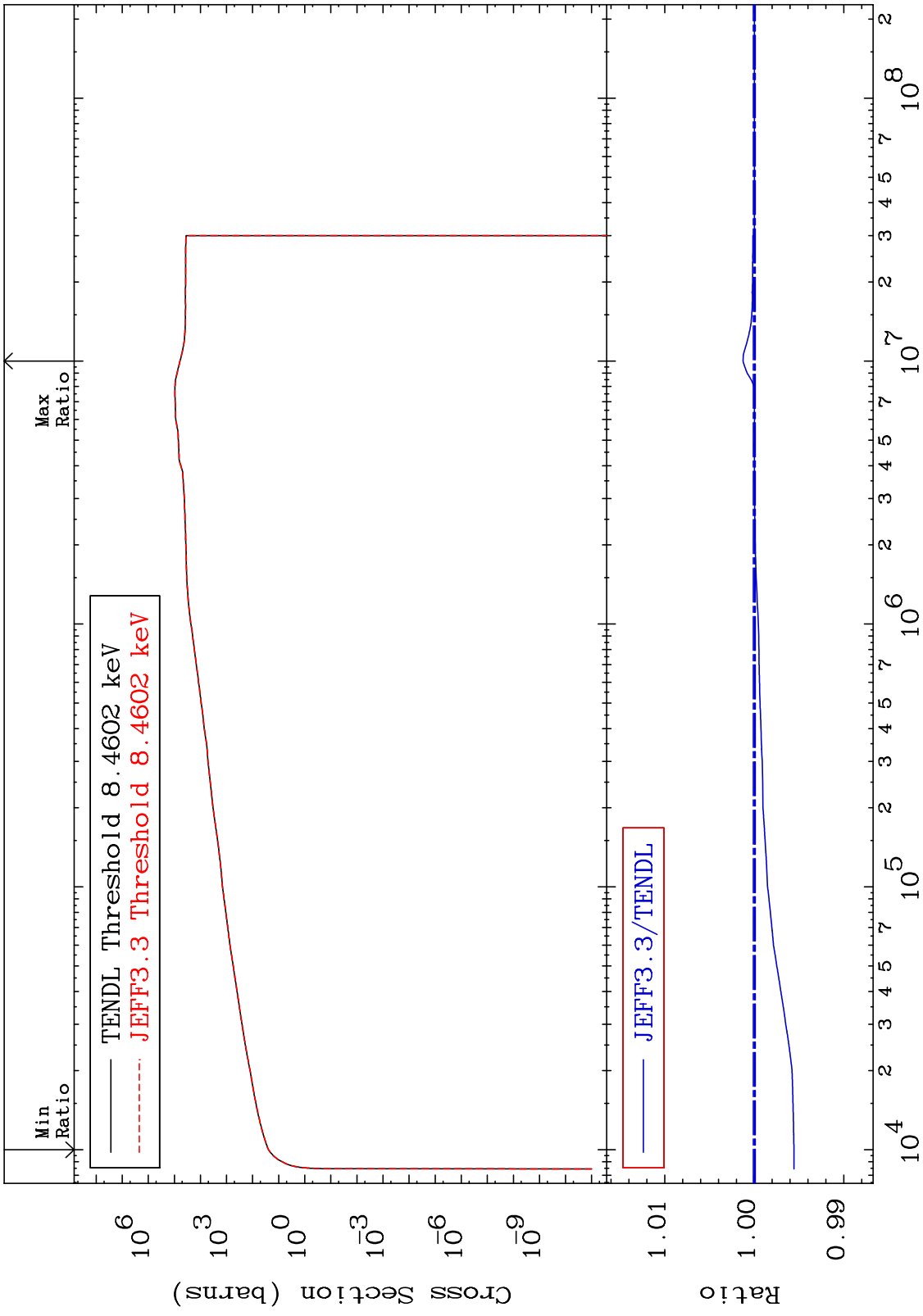


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Incident Energy (eV)

69-Tm-169

MAT 6925 Dpa inelastic (mt51-91) 69-Tm-169
 Cross Section -0.443 To 0.127 %

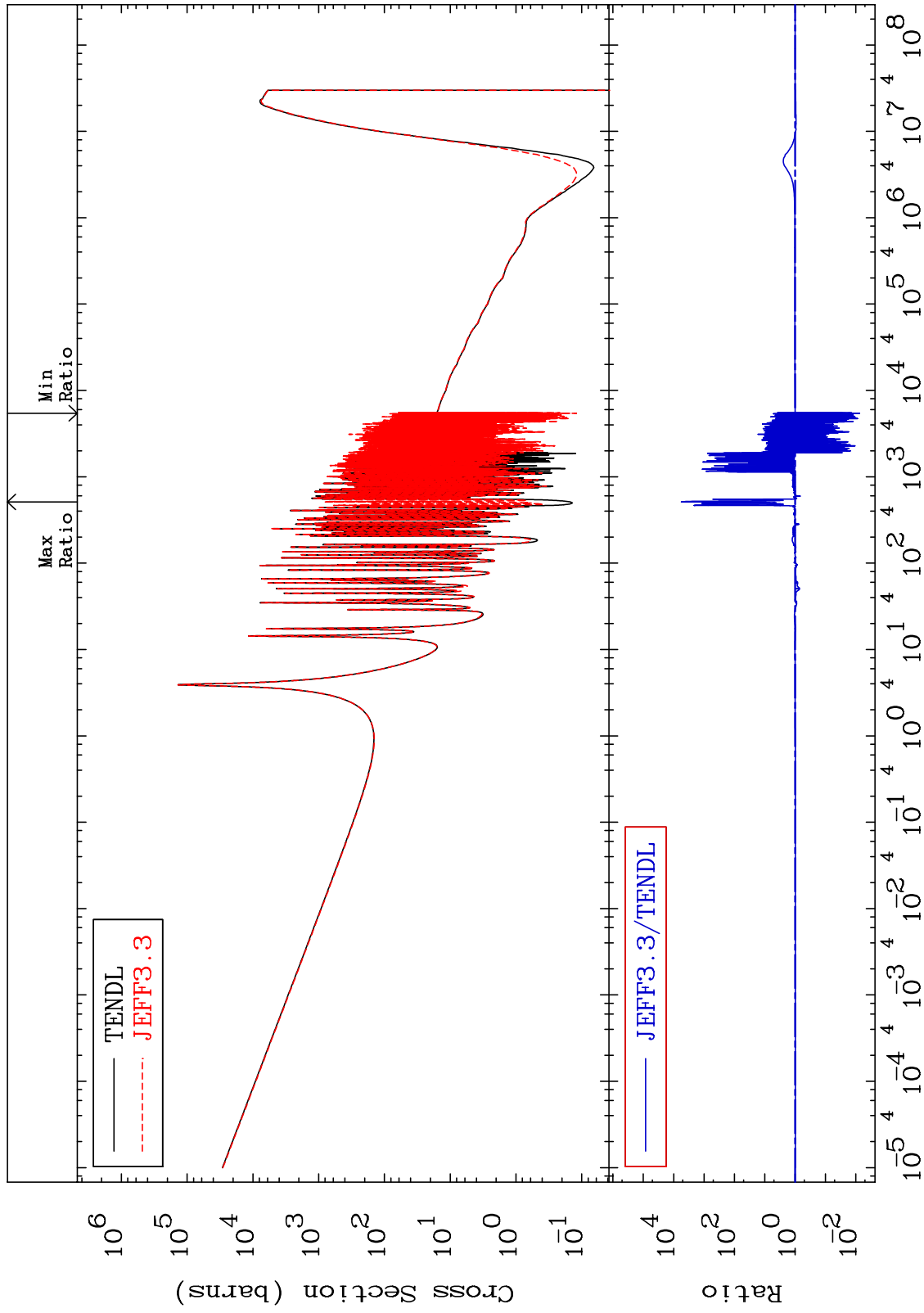


77 Incident Energy (eV) 69-Tm-169

MAT 6925

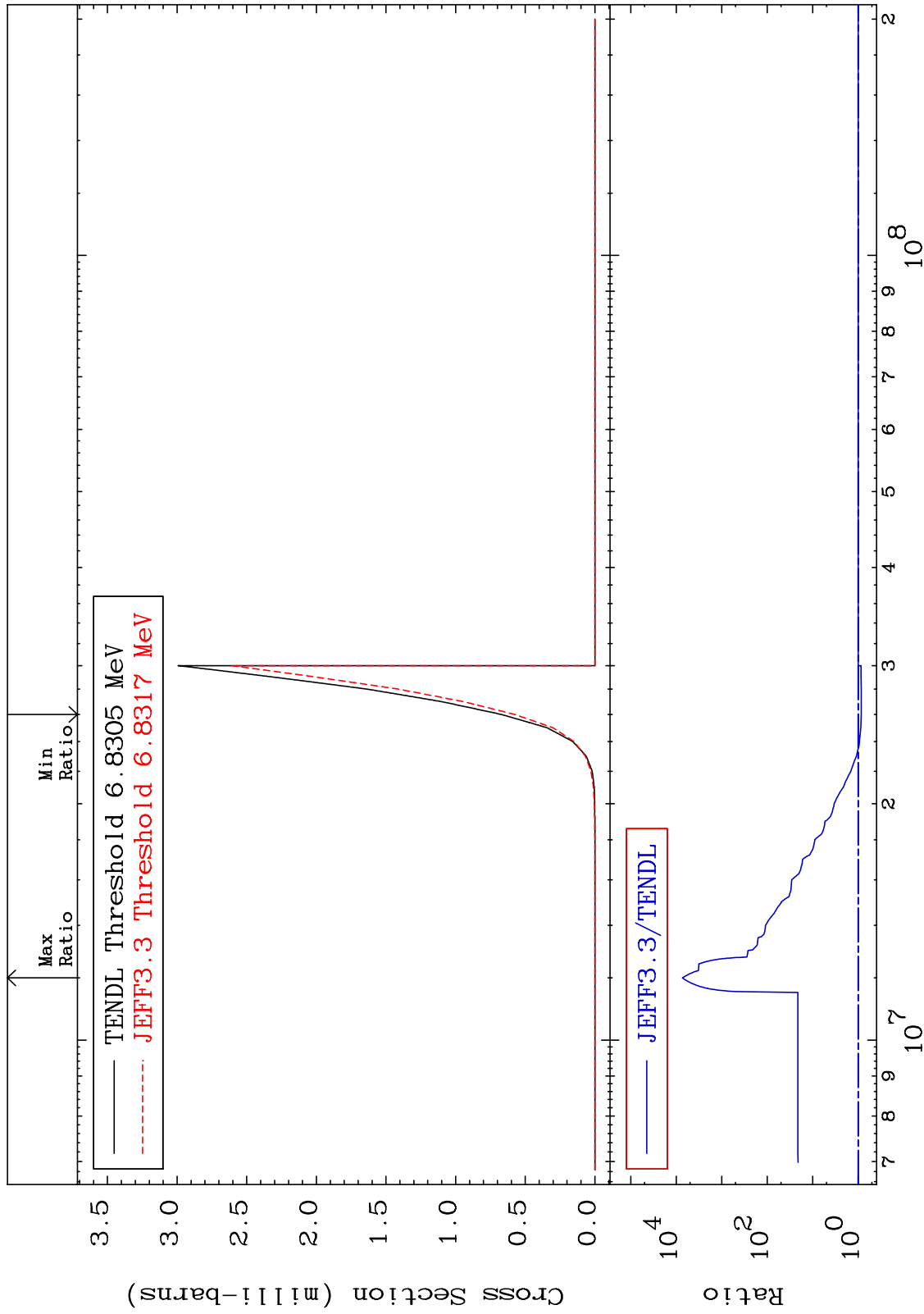
Dpa disappearance (mt102 -120)
Cross Section

69-Tm-169
-99.26 To 9999. %



MAT 6925

(n,2n) α :67-Ho-164g 69-Tm-169
Radionuclide Production Cross Section -14.28 To 9999. %



79

Incident Energy (eV)

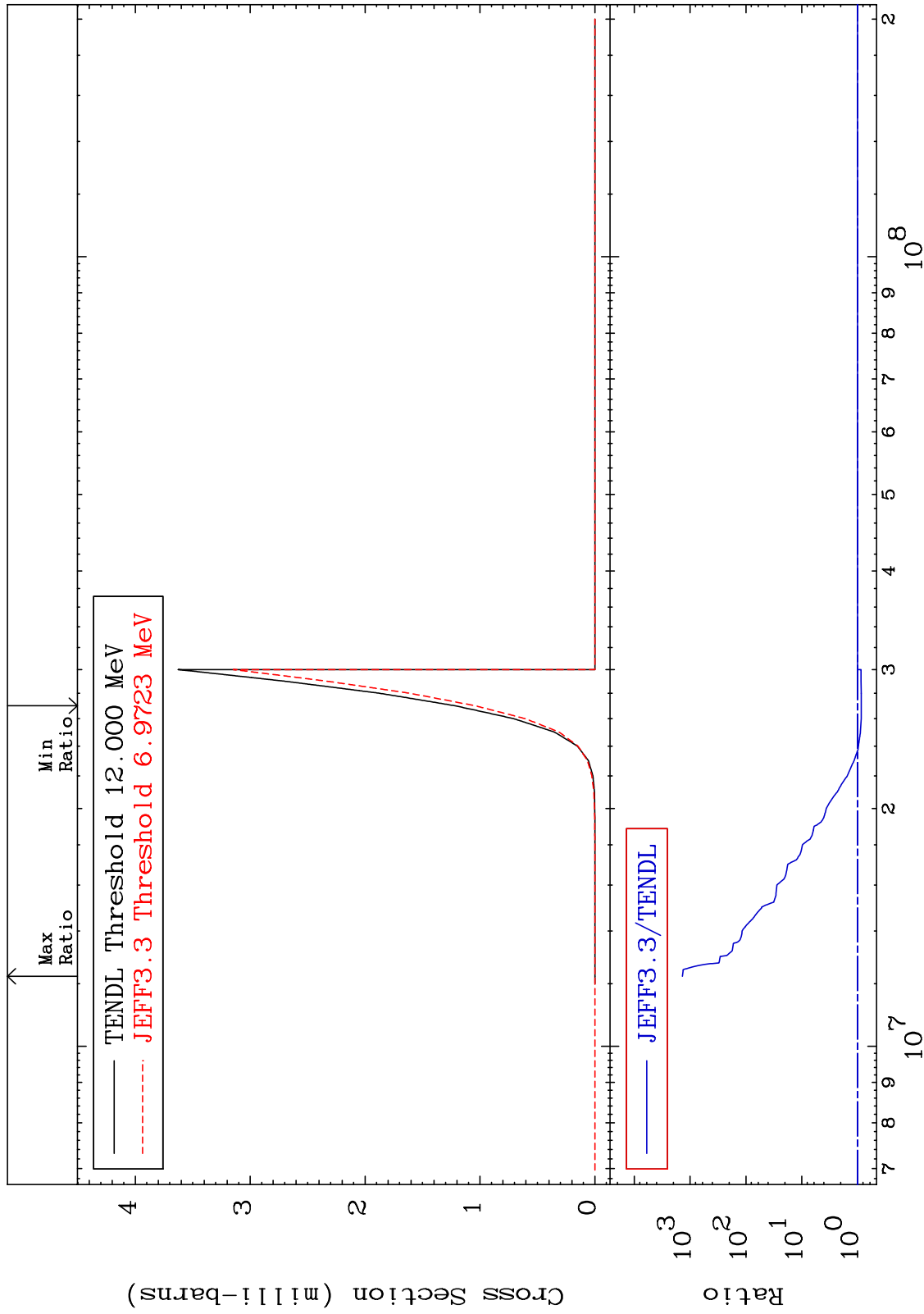
69-Tm-169

MAT 6925

(n,2n) α :67-Ho-164m3

69-Tm-169

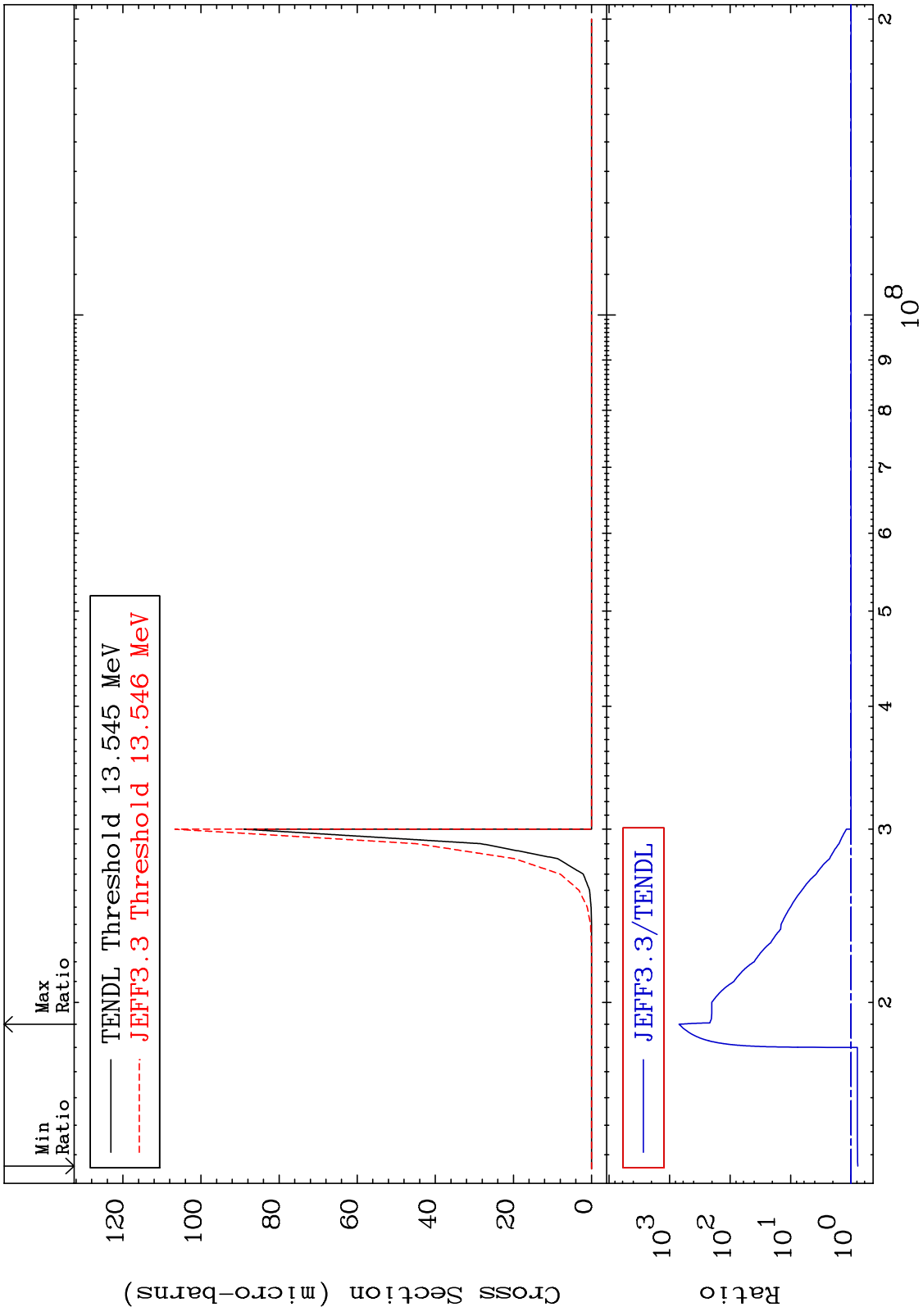
Radionuclide Production Cross Section -14.39 To 9999. %



80

Incident Energy (eV)

69-Tm-169

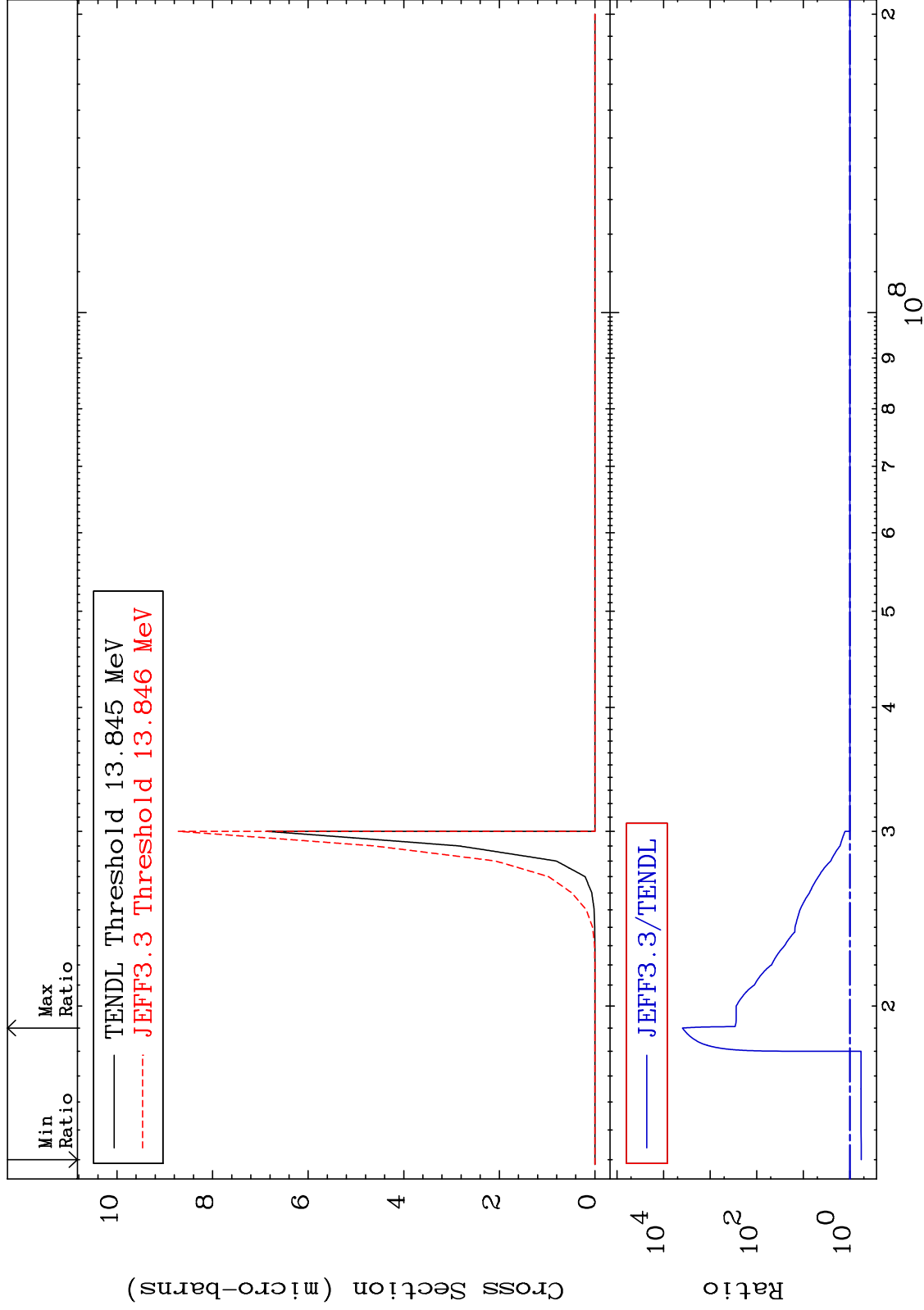


MAT 6925

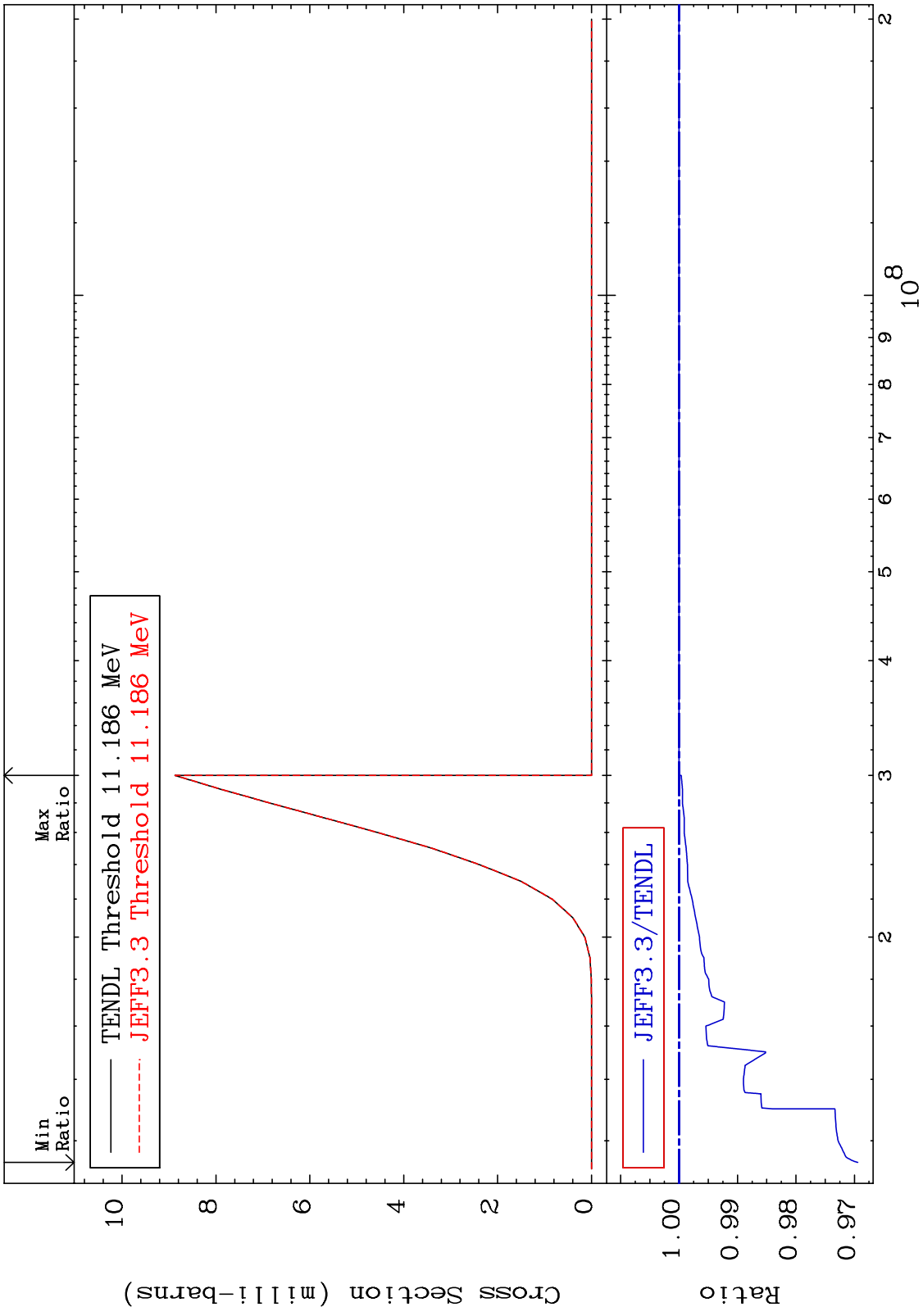
(n,3n) α :67-Ho-163m3

69-Tm-169

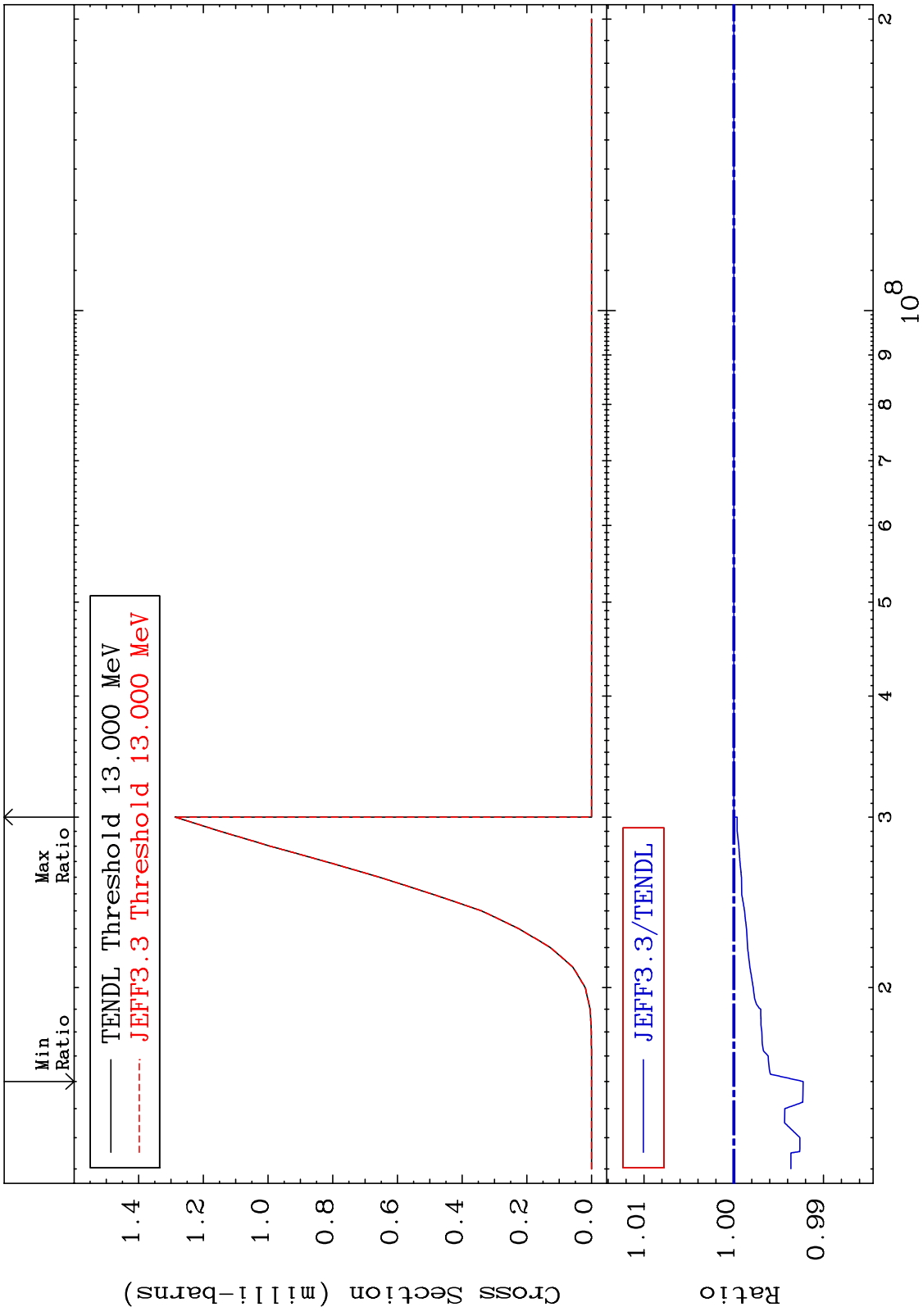
Radionuclide Production Cross Section -43.21 To 9999. %



MAT 6925 (n, n') d:68-Er-167g 69-Tm-169
 Radionuclide Production Cross Section -3.058 To 0.000 %



MAT 6925 (n,n') d:68-Er-167m3 69-Tm-169
 Radionuclide Production Cross Section -0.772 To 0.000 %

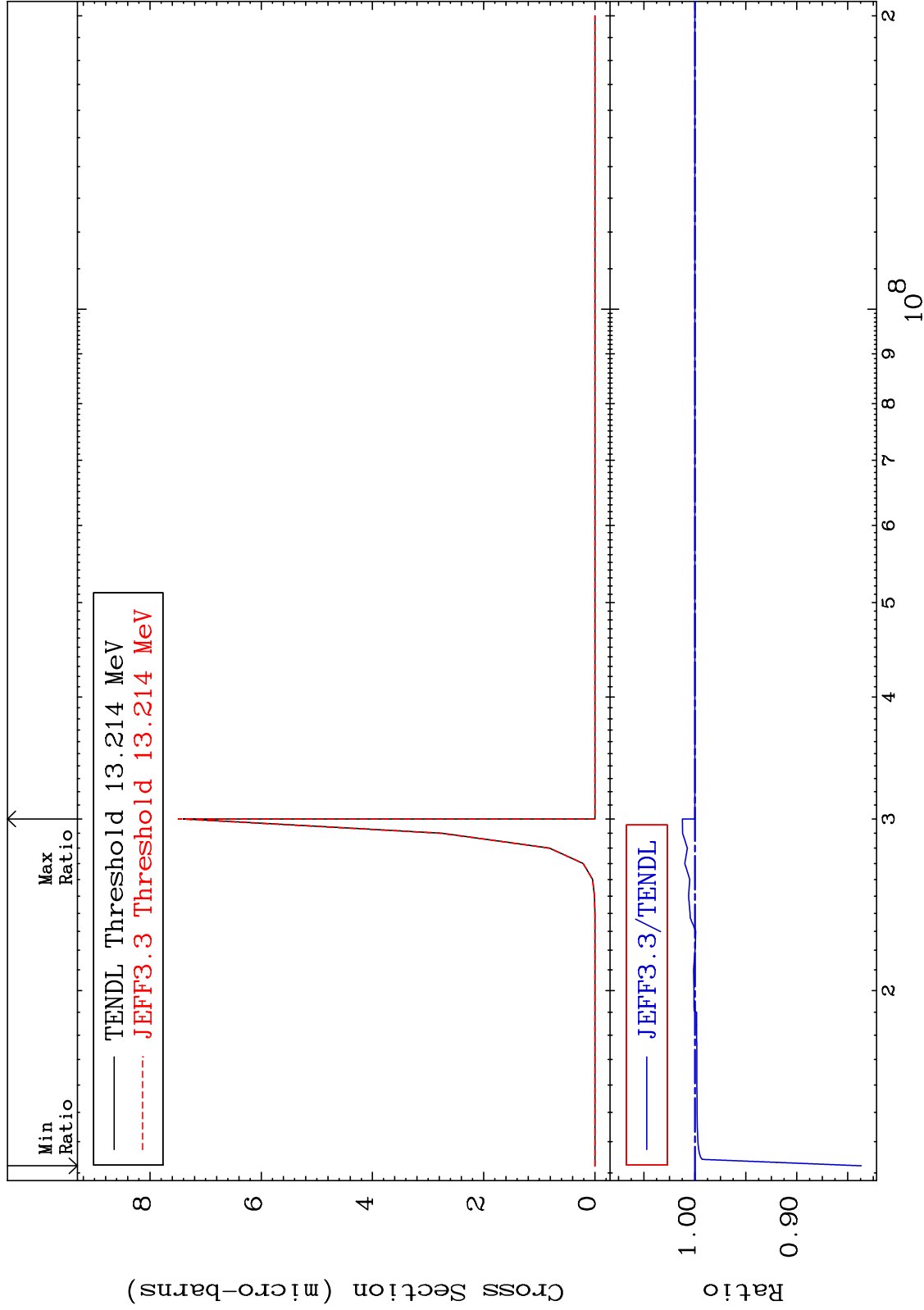


MAT 6925

(n,n') He-3:67-Ho-166g

69-Tm-169

Radionuclide Production Cross Section -16.33 To 1.222 %

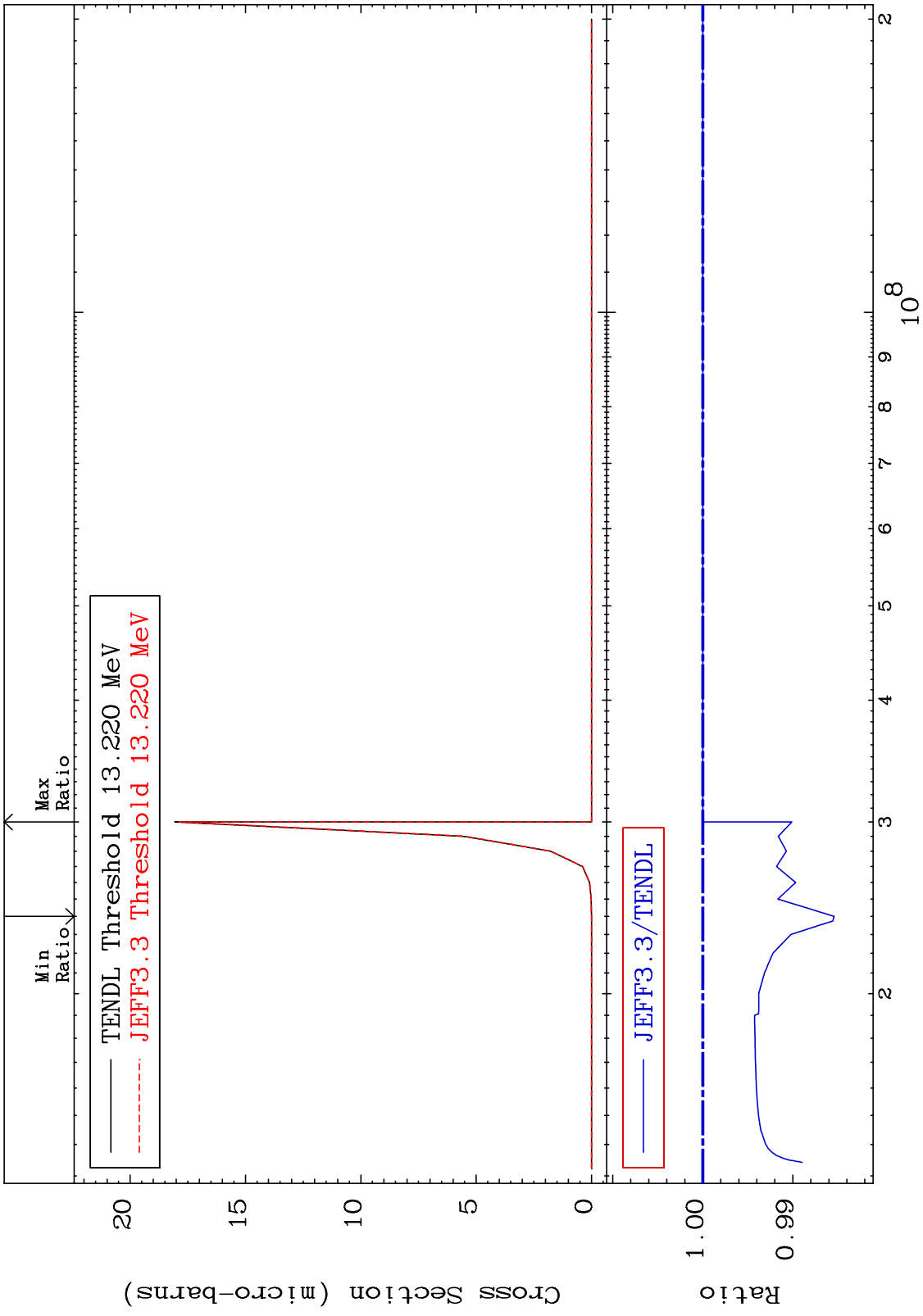


85

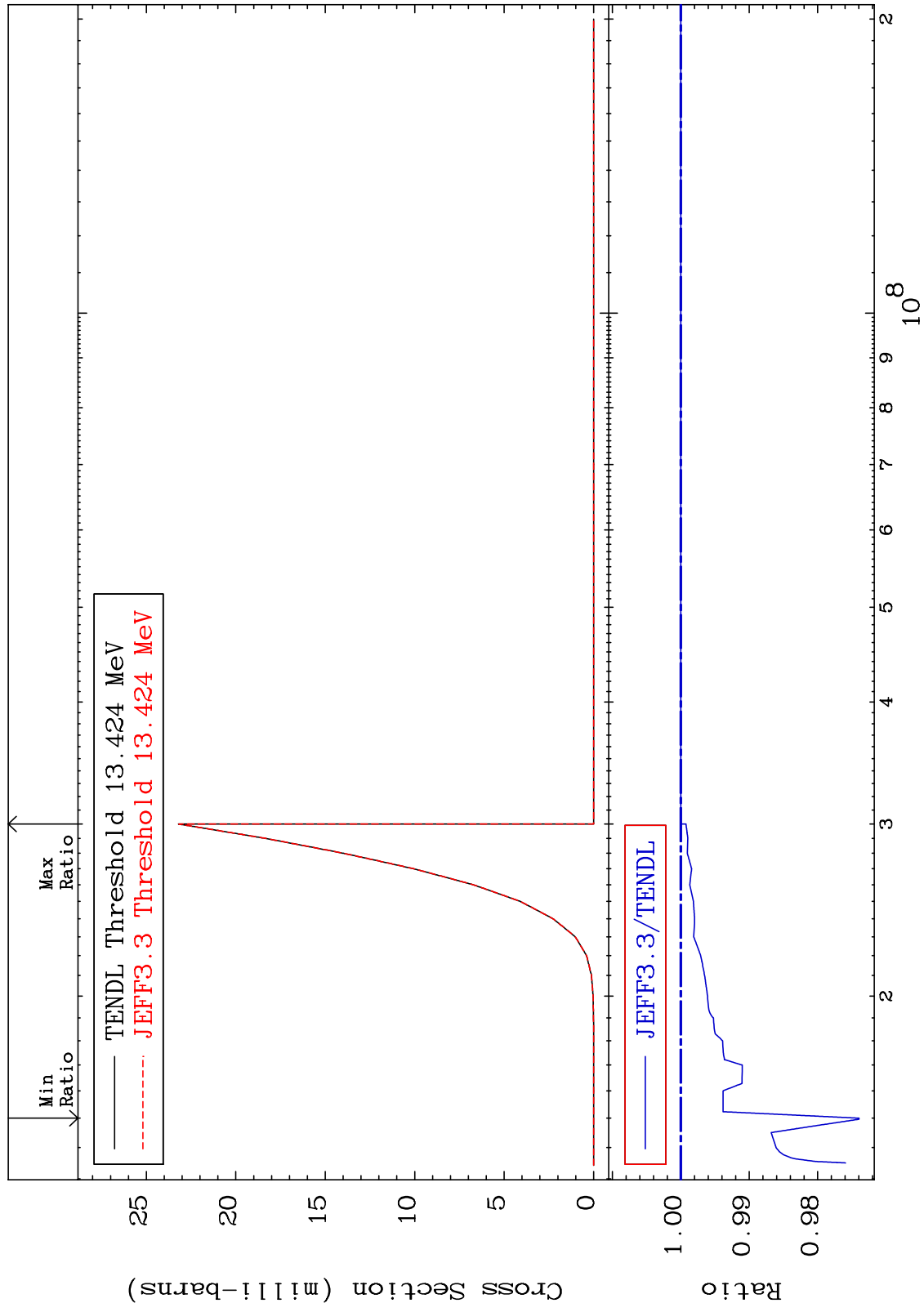
Incident Energy (eV)

69-Tm-169

MAT 6925 (n, n') He-3:67-Ho-166m1 69-Tm-169
 Radionuclide Production Cross Section -1.458 To 0.000 %



MAT 6925 (n,2n) p:68-Er-167g 69-Tm-169
Radionuclide Production Cross Section -2.605 To 0.000 %

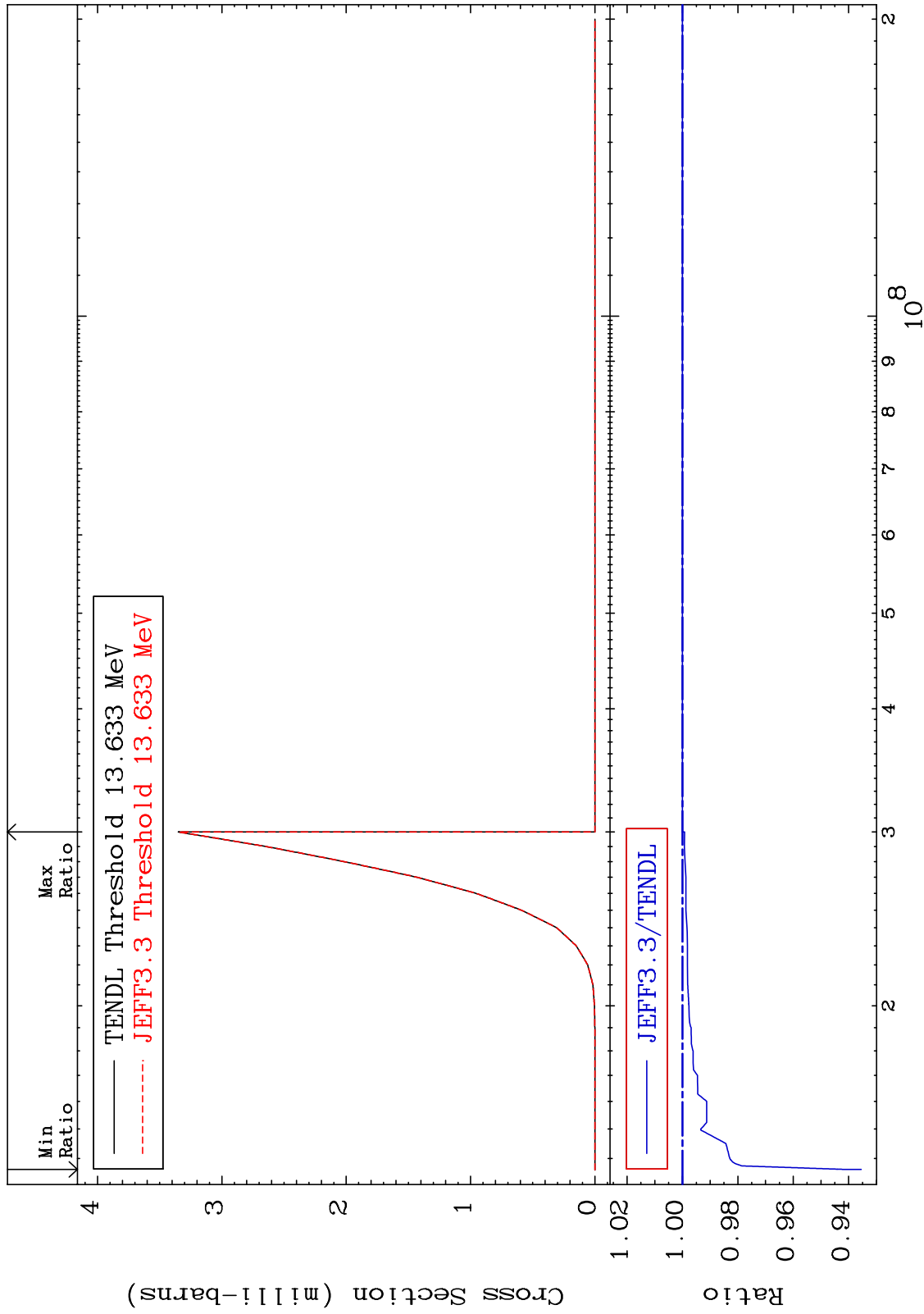


MAT 6925

(n,2n) p:68-Er-167m3

69-Tm-169

Radionuclide Production Cross Section -6.457 To 0.000 %

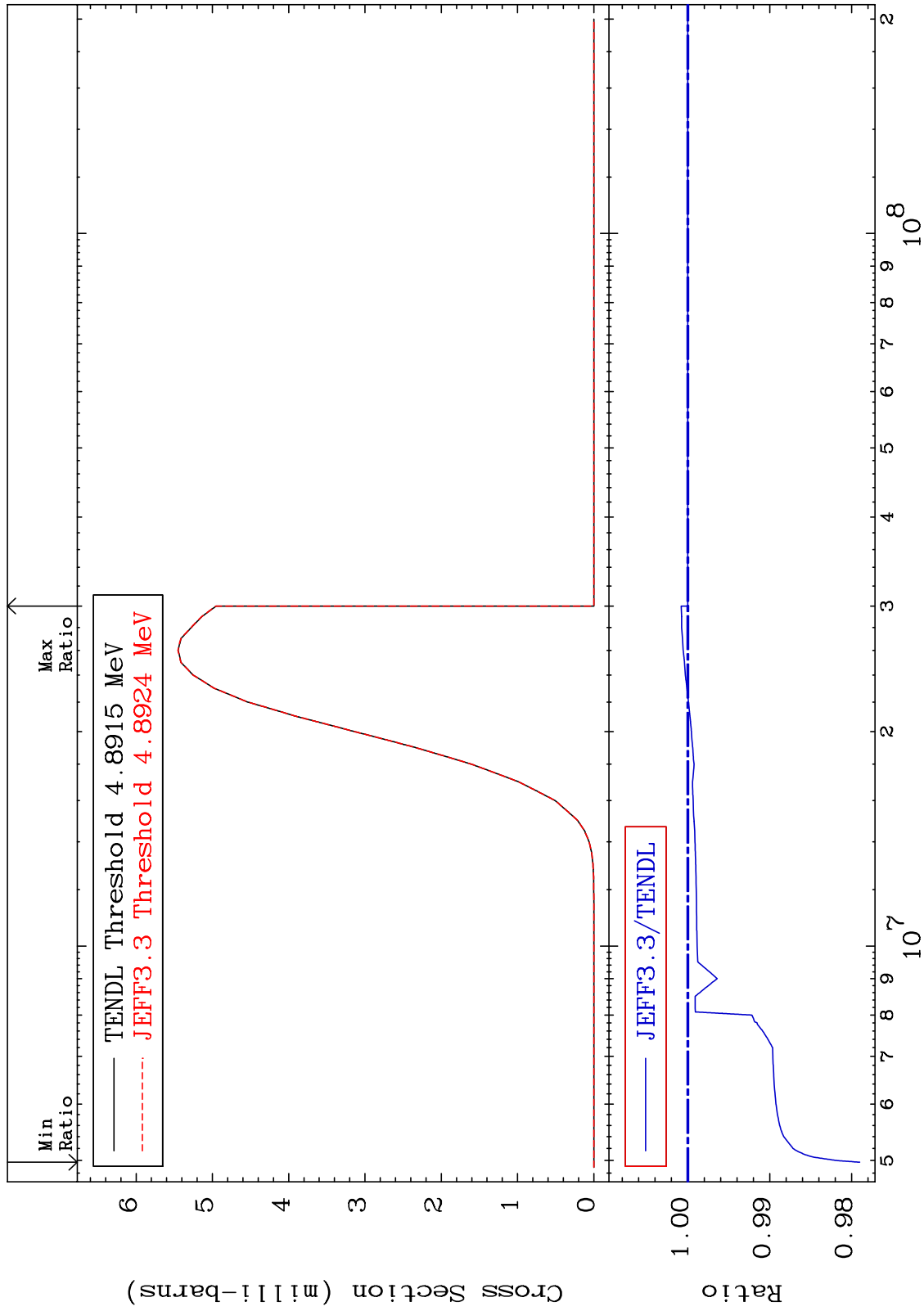


MAT 6925

(n, t) : 68-Er-167g

69-Tm-169

Radionuclide Production Cross Section -2.099 To 0.080 %



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Incident Energy (eV)

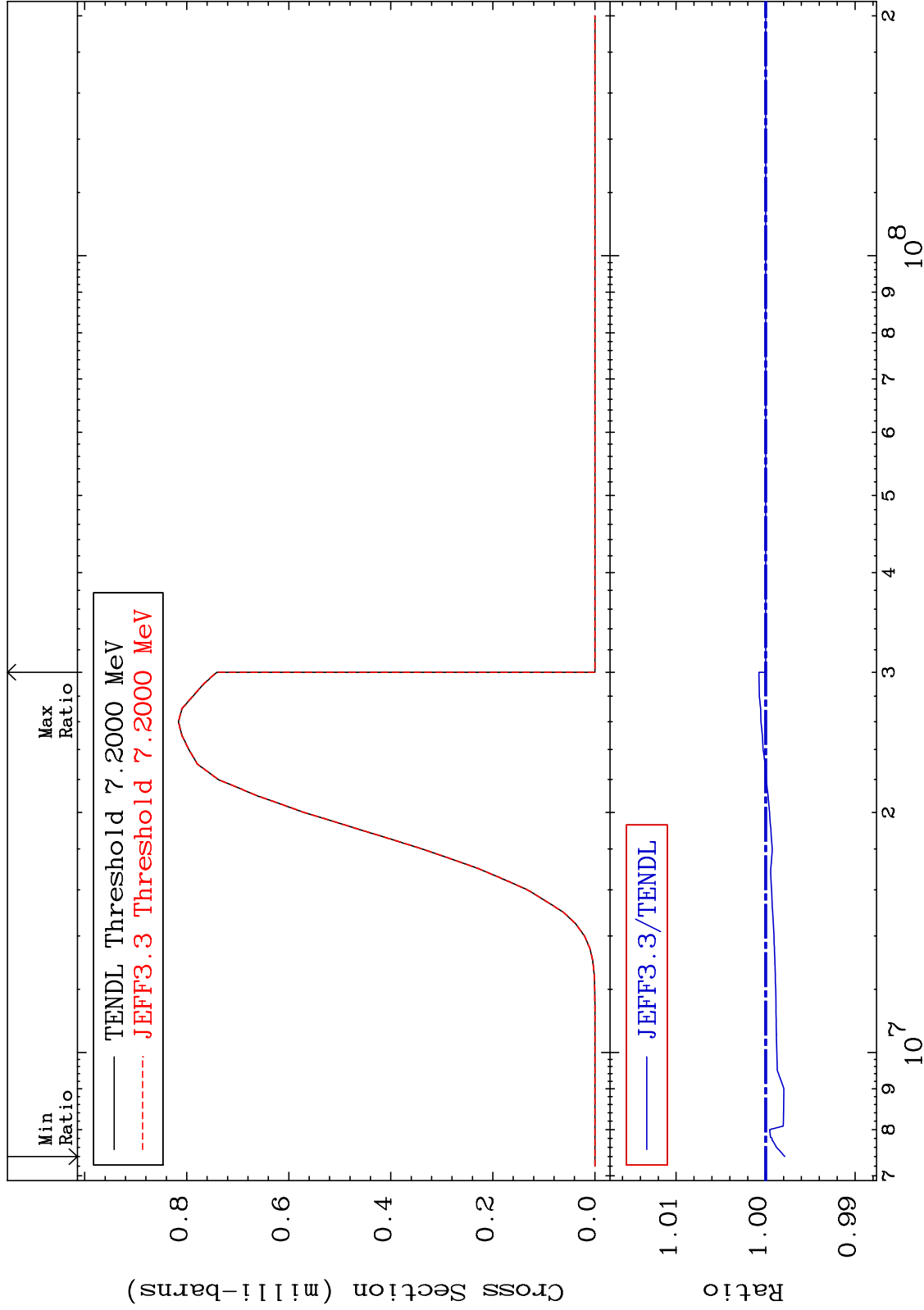
69-Tm-169

MAT 6925

(n, t) : 68-Er-167m3

69-Tm-169

Radionuclide Production Cross Section -0.214 To 0.075 %



90

Incident Energy (eV)

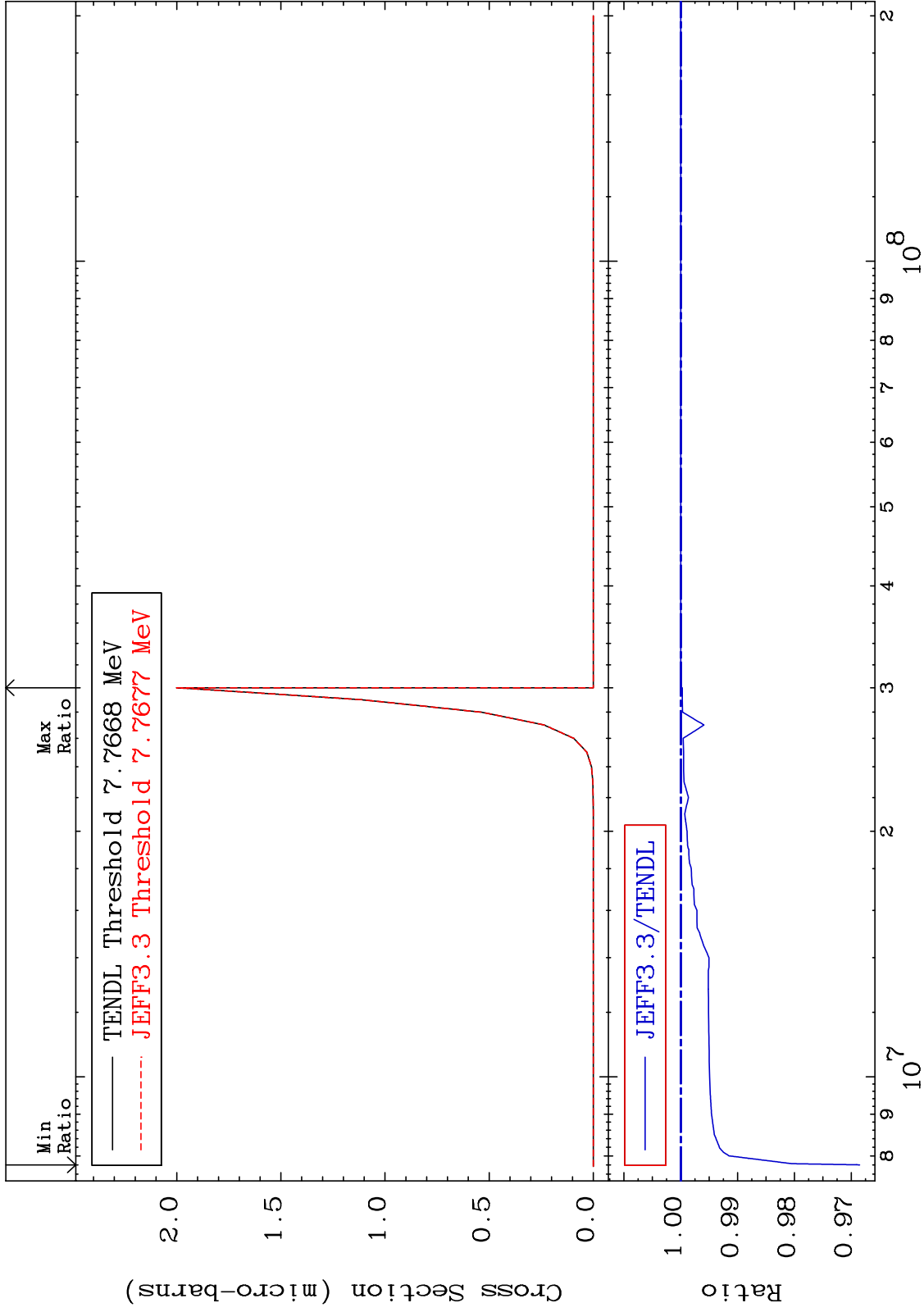
69-Tm-169

MAT 6925

(n,2p):67-Ho-168g

69-Tm-169

Radionuclide Production Cross Section -3.148 To 0.000 %

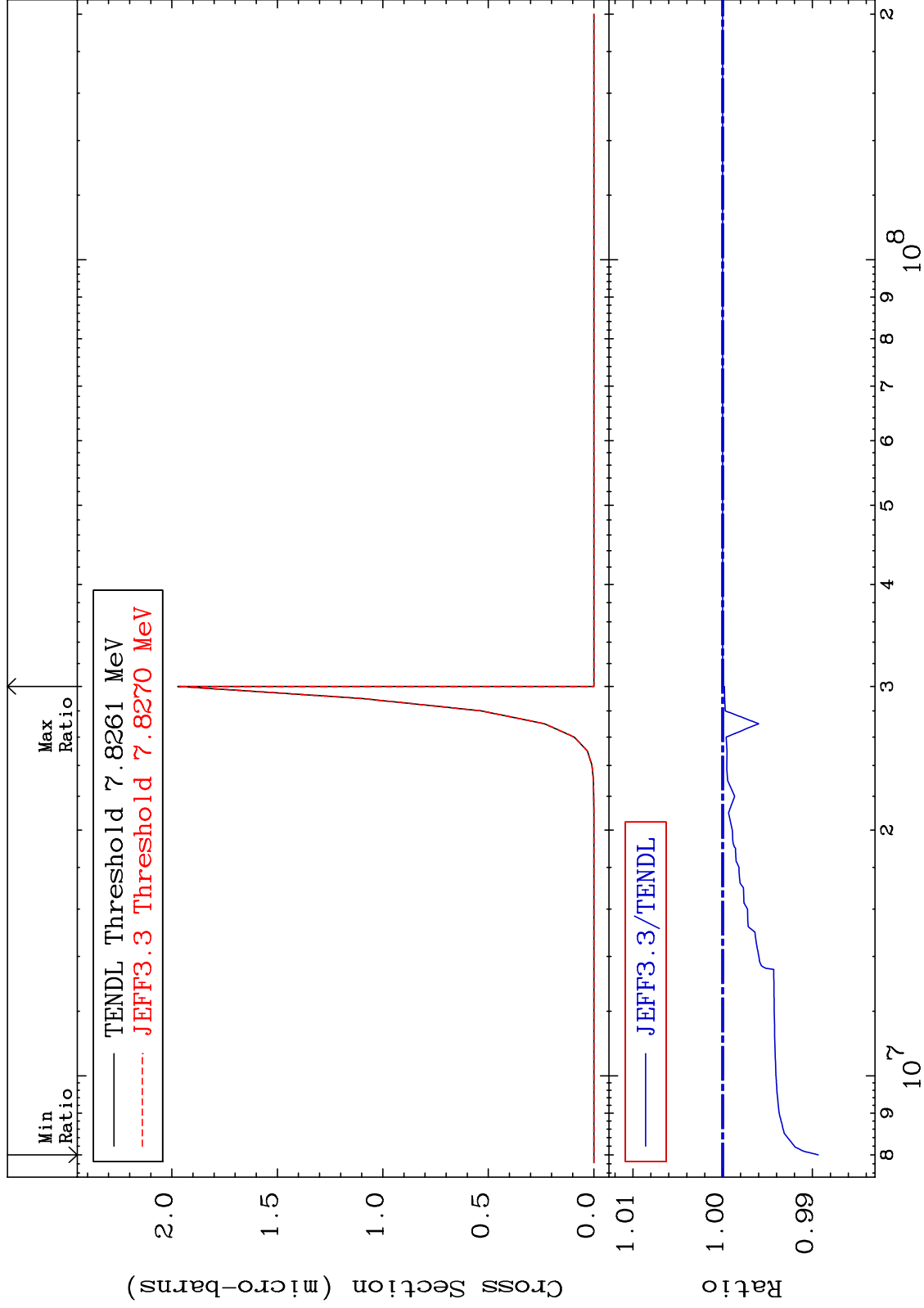


MAT 6925

(n,2p):67-Ho-168m1

69-Tm-169

Radionuclide Production Cross Section -1.066 To 0.000 %

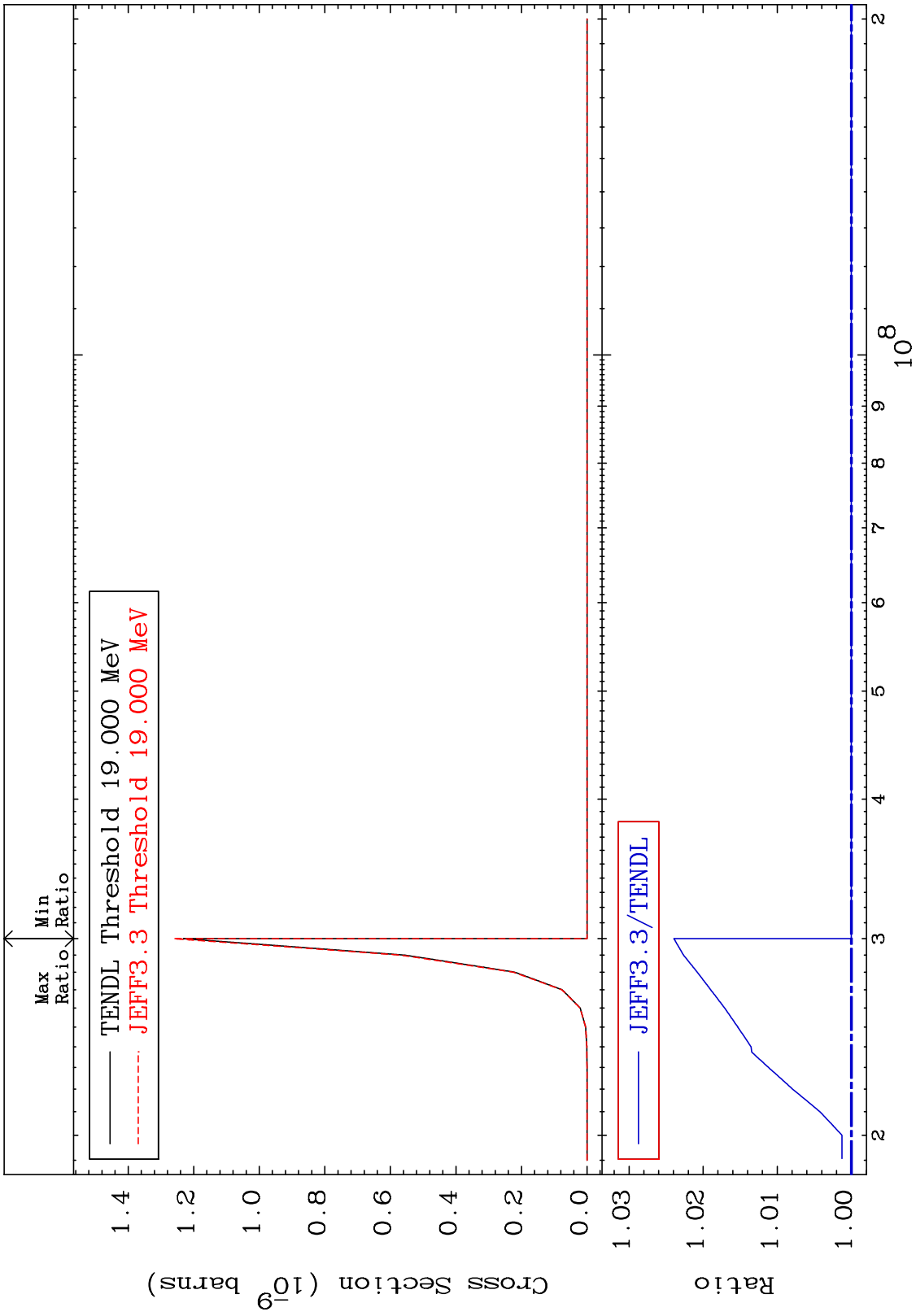


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Incident Energy (eV)

69-Tm-169

MAT 6925 (n,p) t:67-Ho-166g 69-Tm-169
 Radionuclide Production Cross Section 0.000 To 2.395 %



MAT 6925

(n,p) t:67-Ho-166m1

69-Tm-169

Radionuclide Production Cross Section -3.635 To 0.000 %

