

Program Complot
(Version 2018-1)

by

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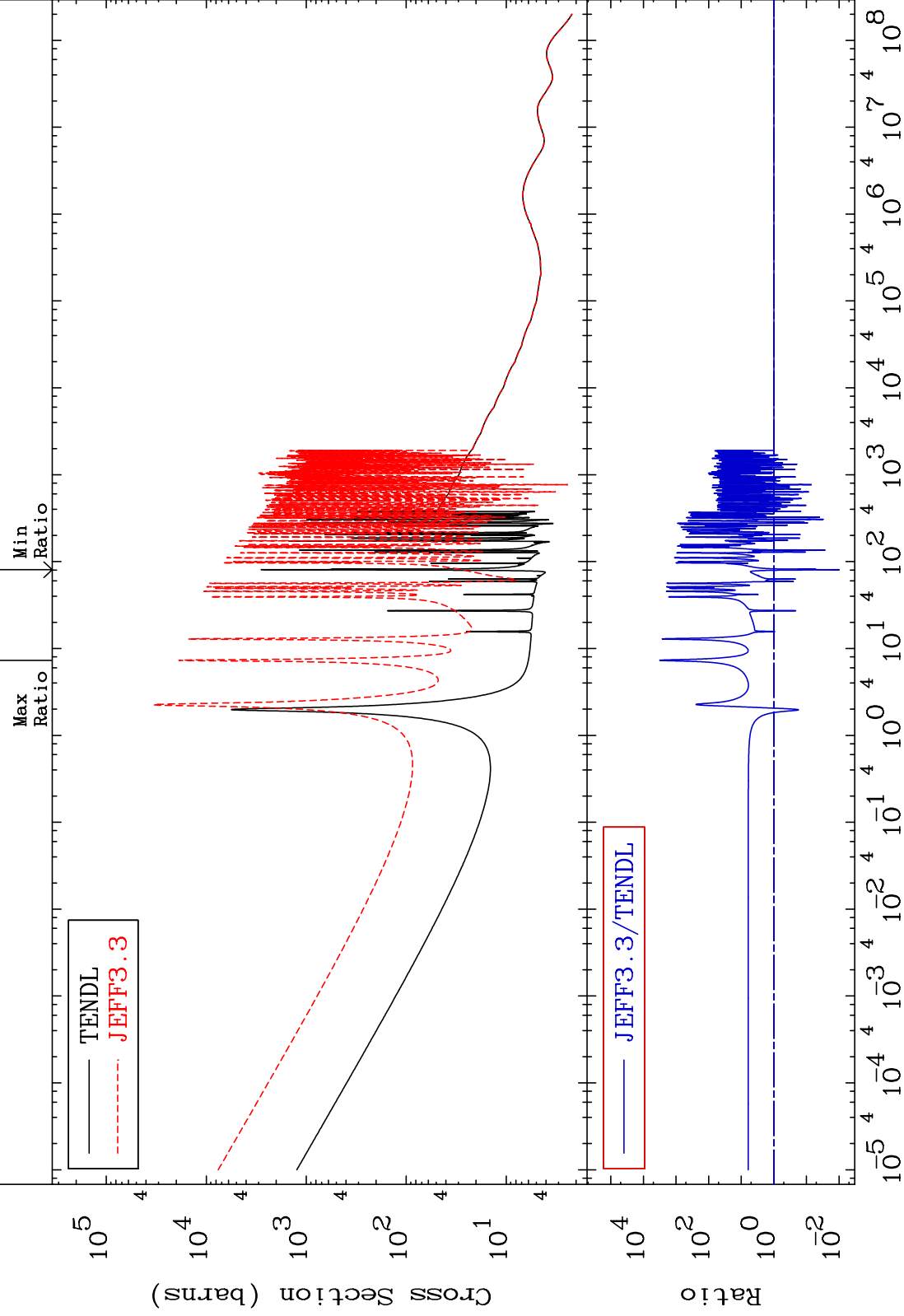
Press Mouse Button to Start

MAT 5722

57-La-137

-99.02 To 9999. %

Total
Cross Section



Incident Energy (eV)

57-La-137

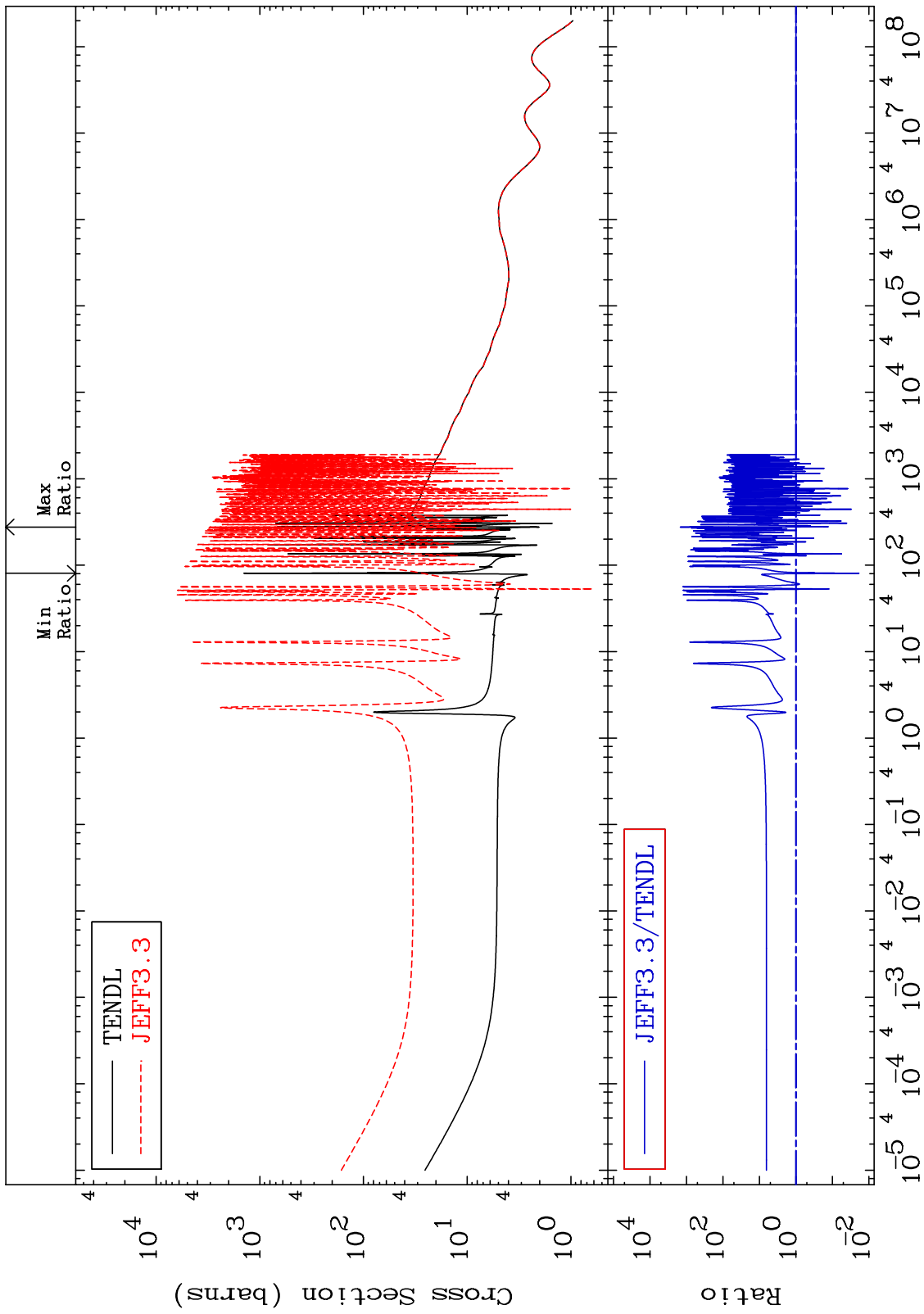
1

MAT 5722

Elastic
Cross Section

57-La-137

-98.12 To 9999. %

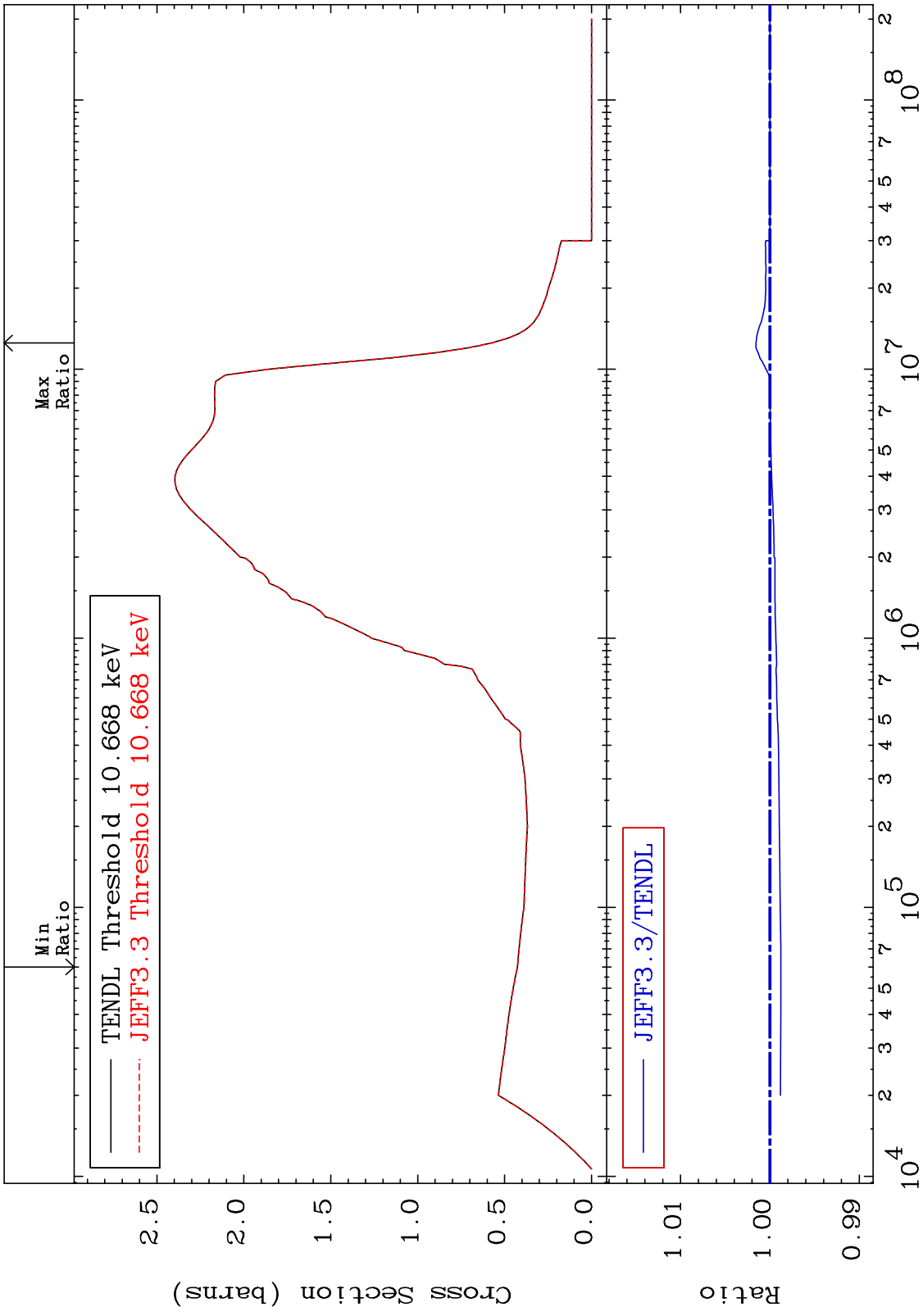


2

Incident Energy (eV)

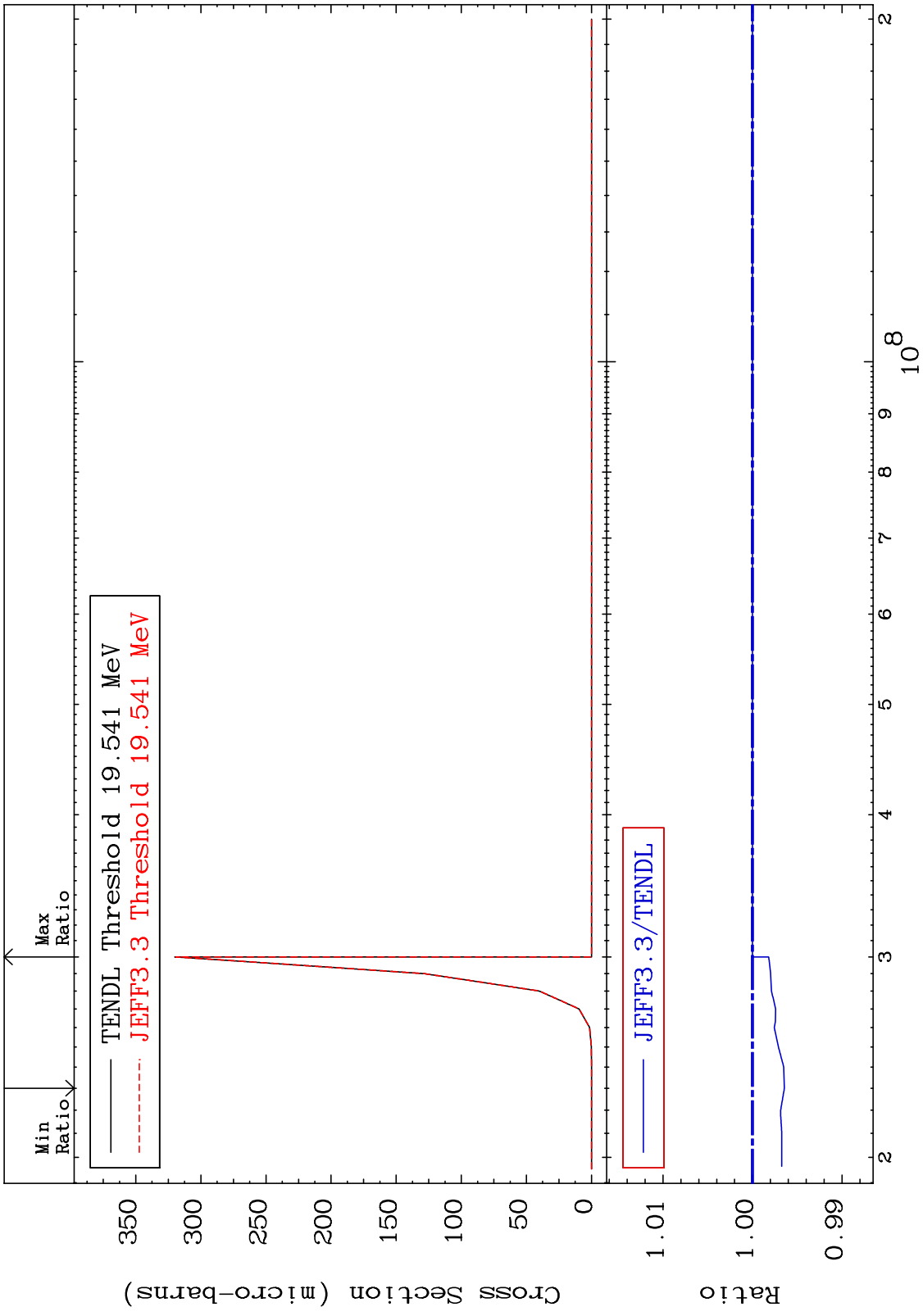
57-La-137

MAT 5722 Inelastic Cross Section 57-La-137 -0.122 To 0.156 %

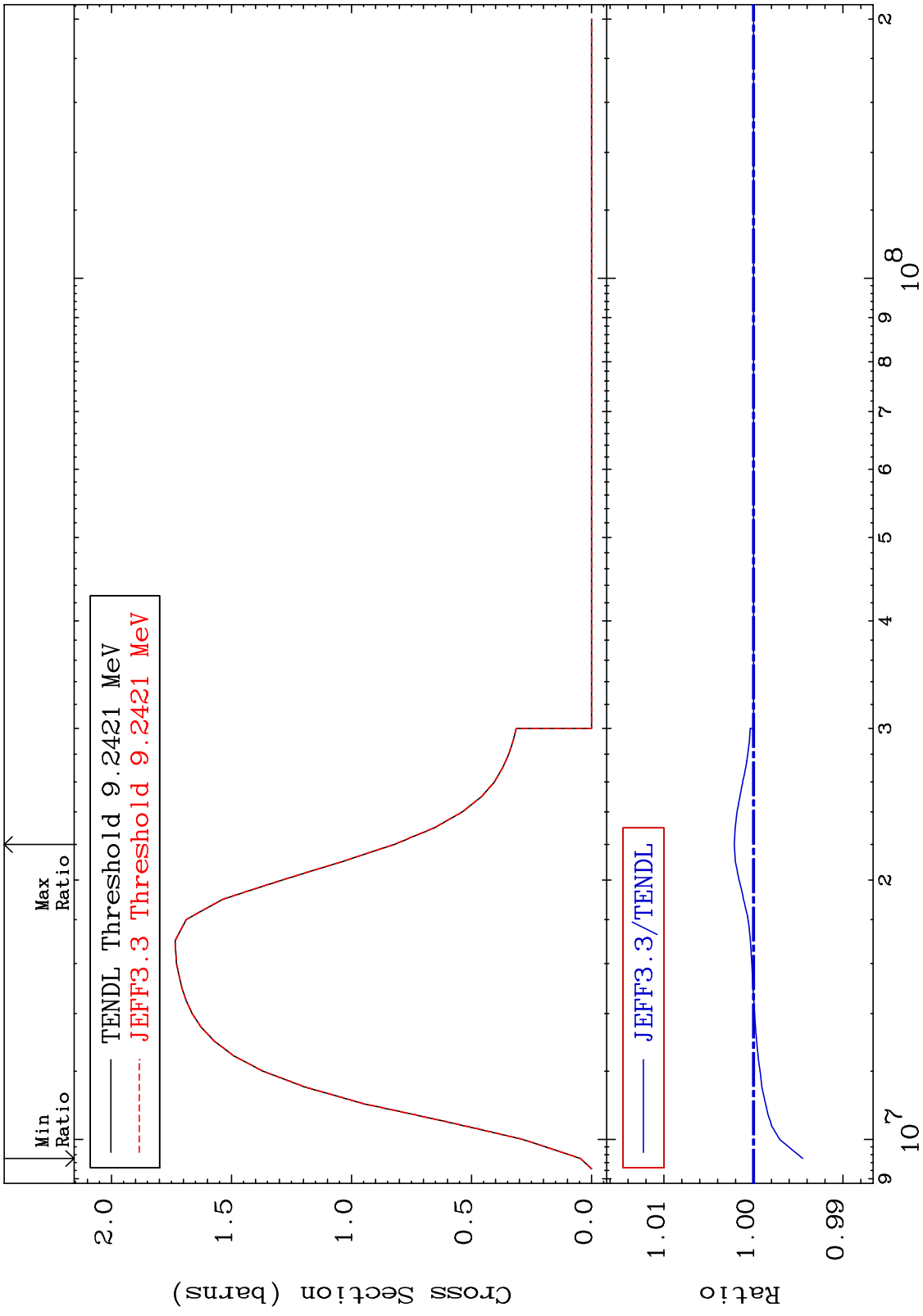


Incident Energy (eV) 57-La-137

MAT 5722 (n,2n) d 57-La-137
 Cross Section -0.356 To 0.000 %

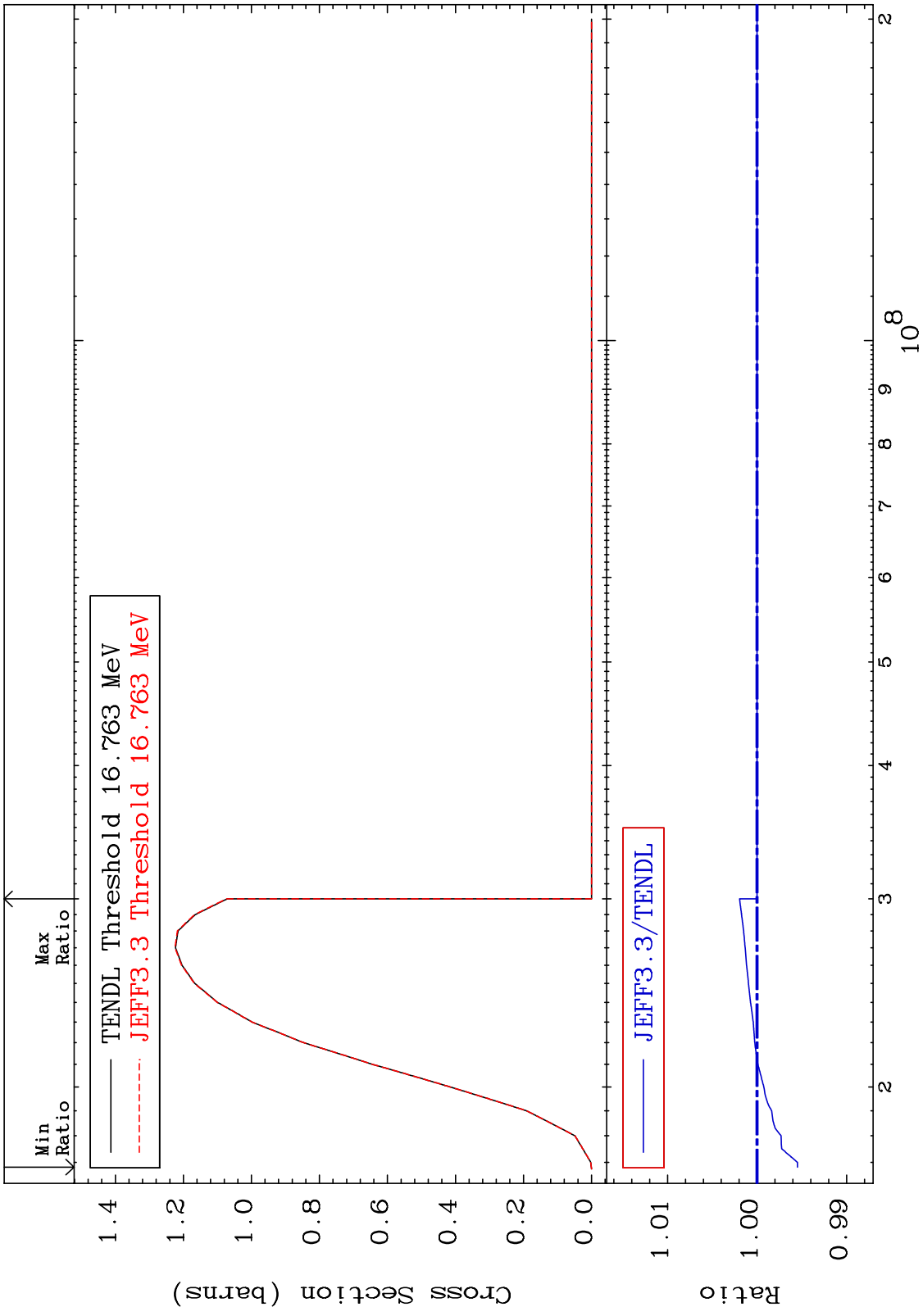


MAT 5722 (n,2n) Cross Section 57-La-137 -0.549 To 0.214 %

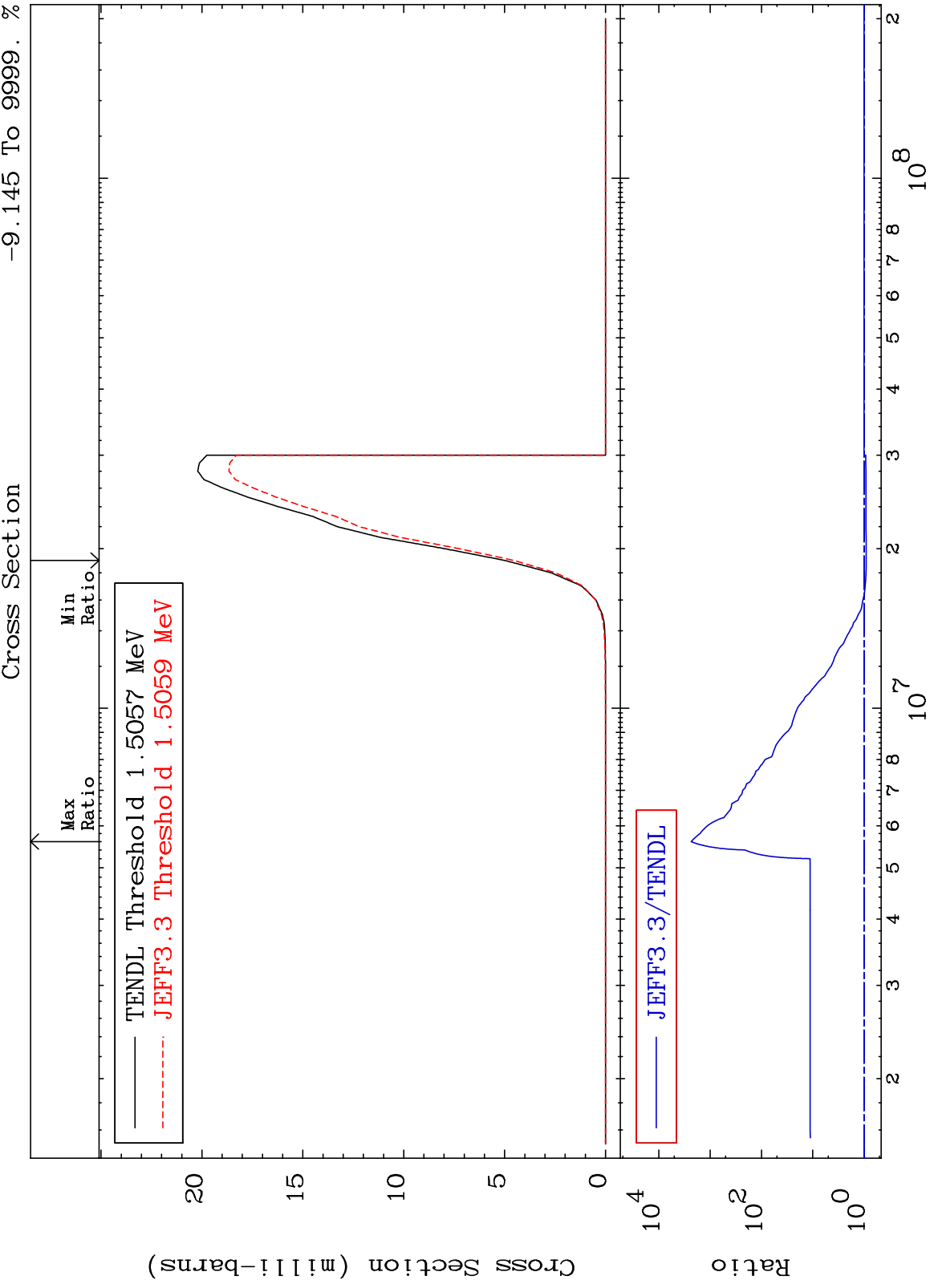


57-La-137

MAT 5722 (n,3n) 57-La-137
Cross Section -0.450 To 0.196 %

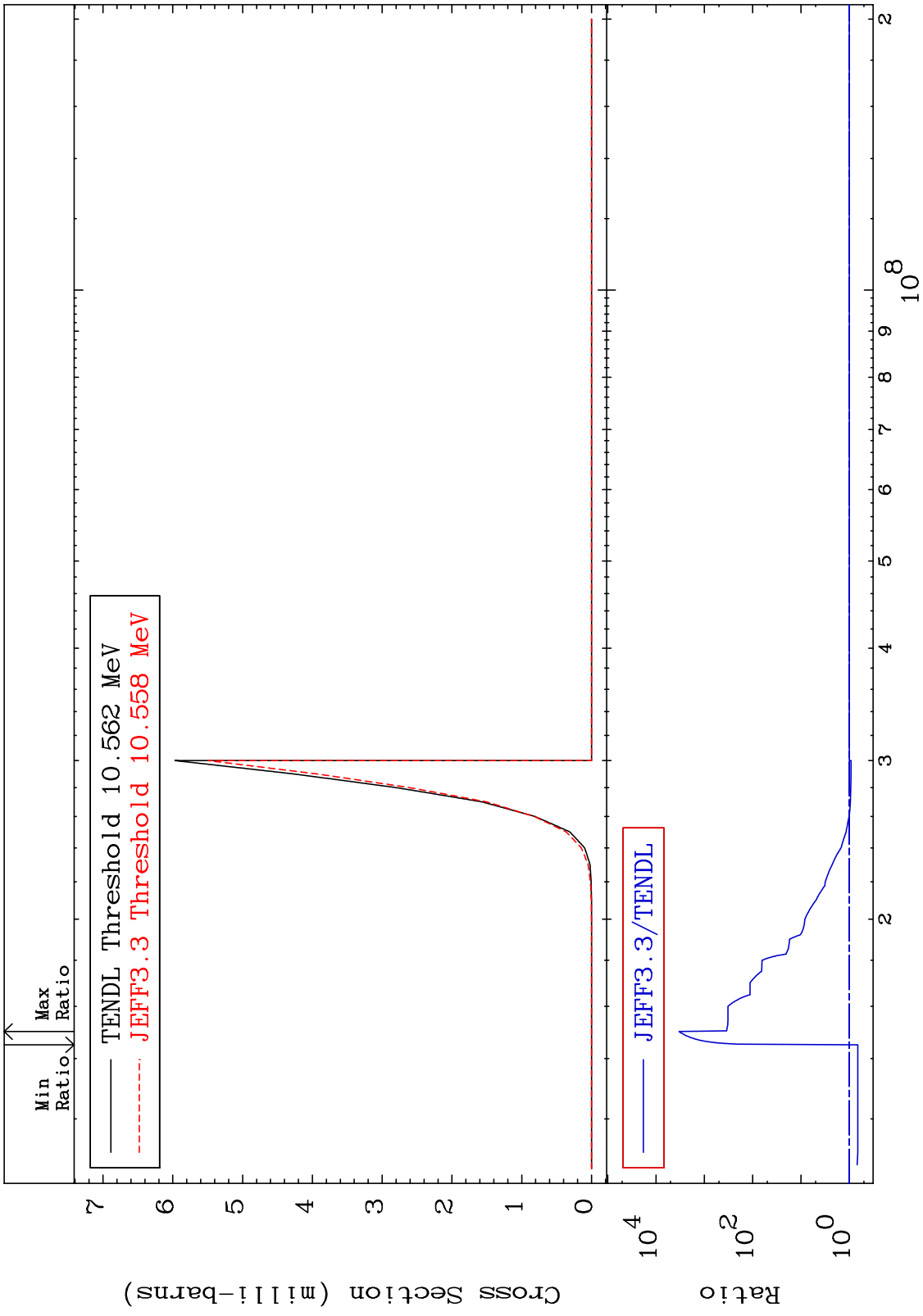


MAT 5722 $(n, n') \alpha$ 57-La-137 -9.145 To 9999. %

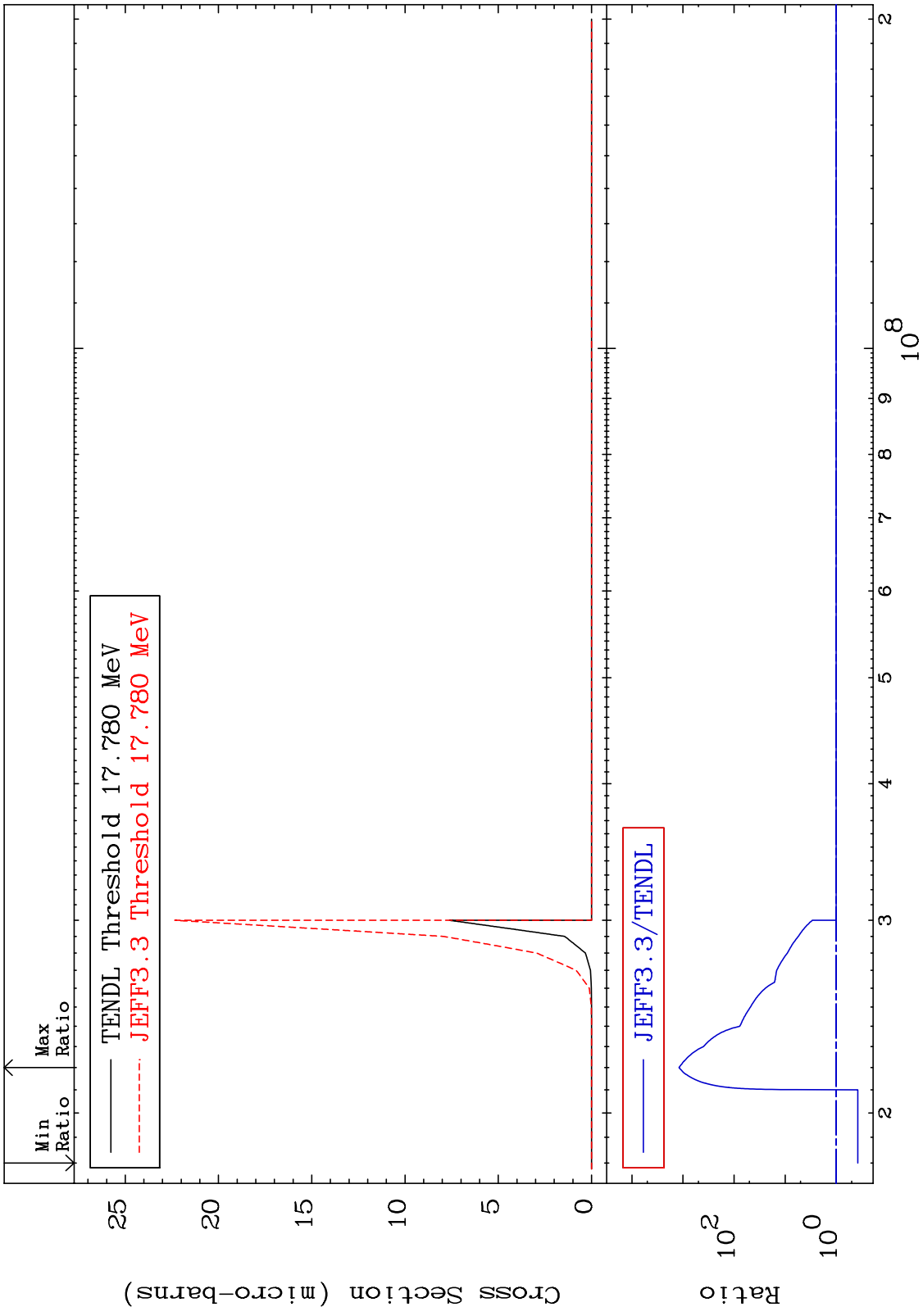


7 Incident Energy (eV) 57-La-137

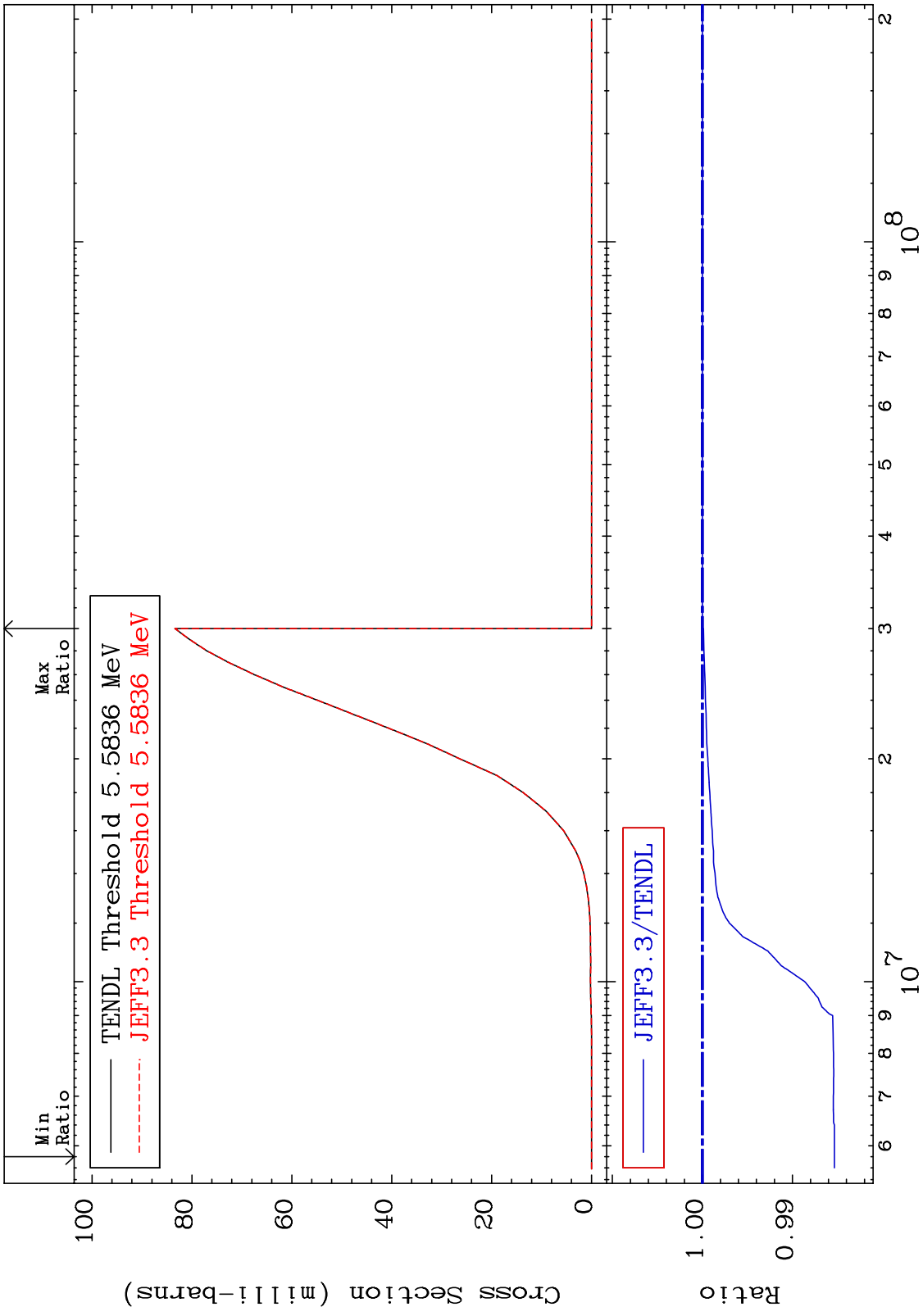
MAT 5722 (n,2n) α 57-La-137
 Cross Section -33.23 To 9999. %



MAT 5722 $(n, 3n) \alpha$ 57-La-137
 Cross Section -62.21 To 9999. %

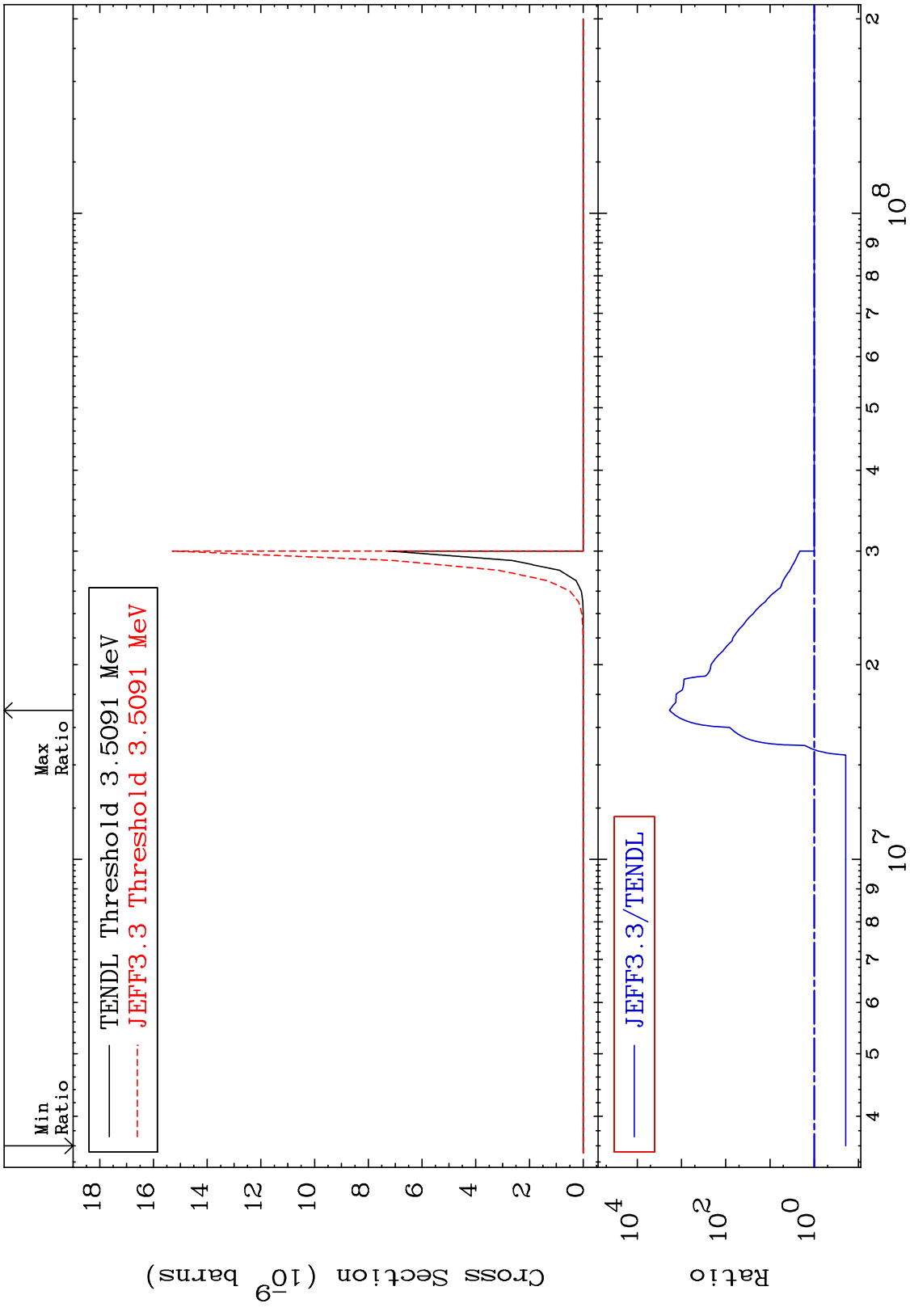


MAT 5722 $(n, n') p$ 57-La-137
Cross Section -1.466 To 0.000 %



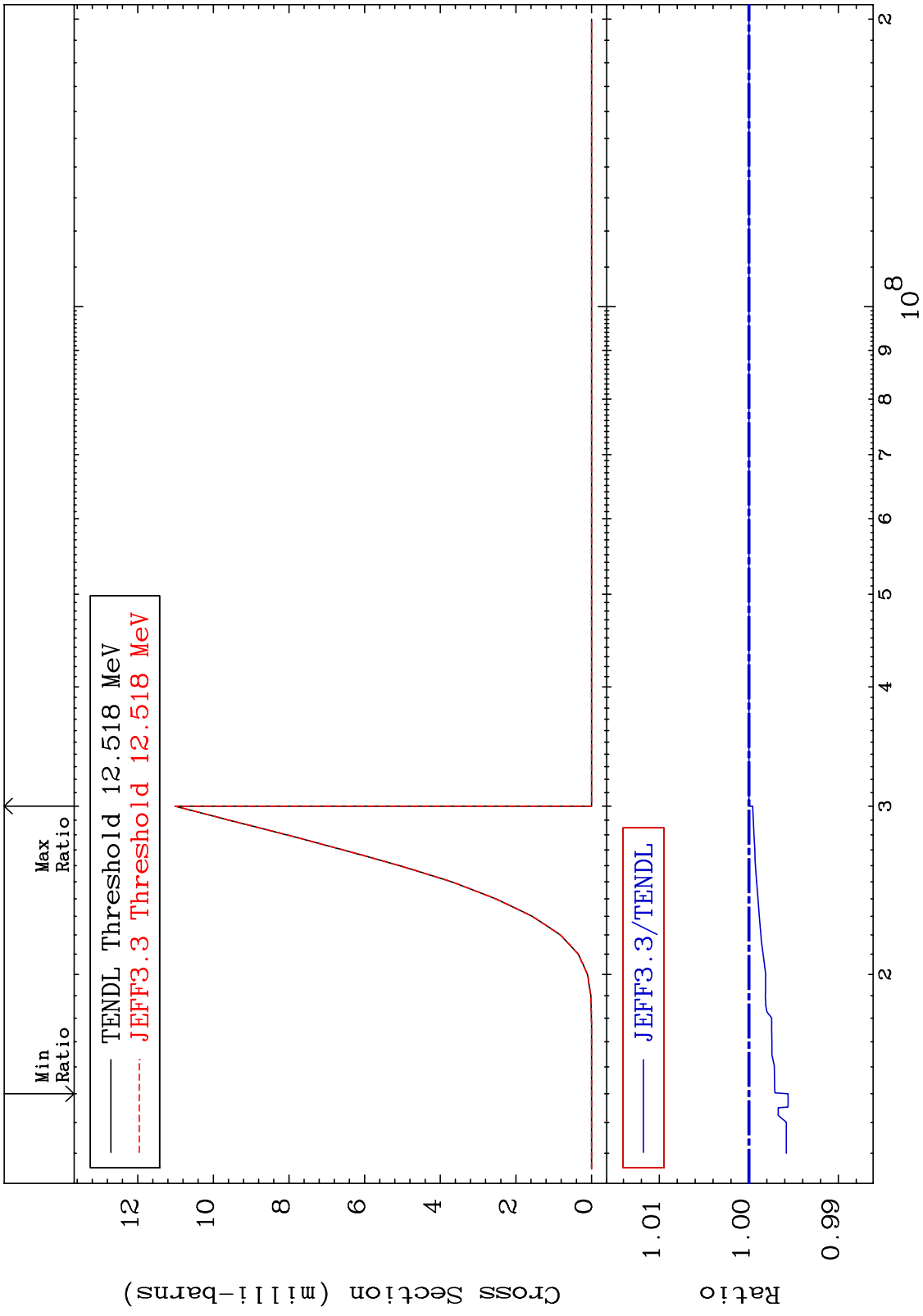
57-La-137

MAT 5722 (n,n') 2α Cross Section 57-La-137 -80.62 To 9999. %

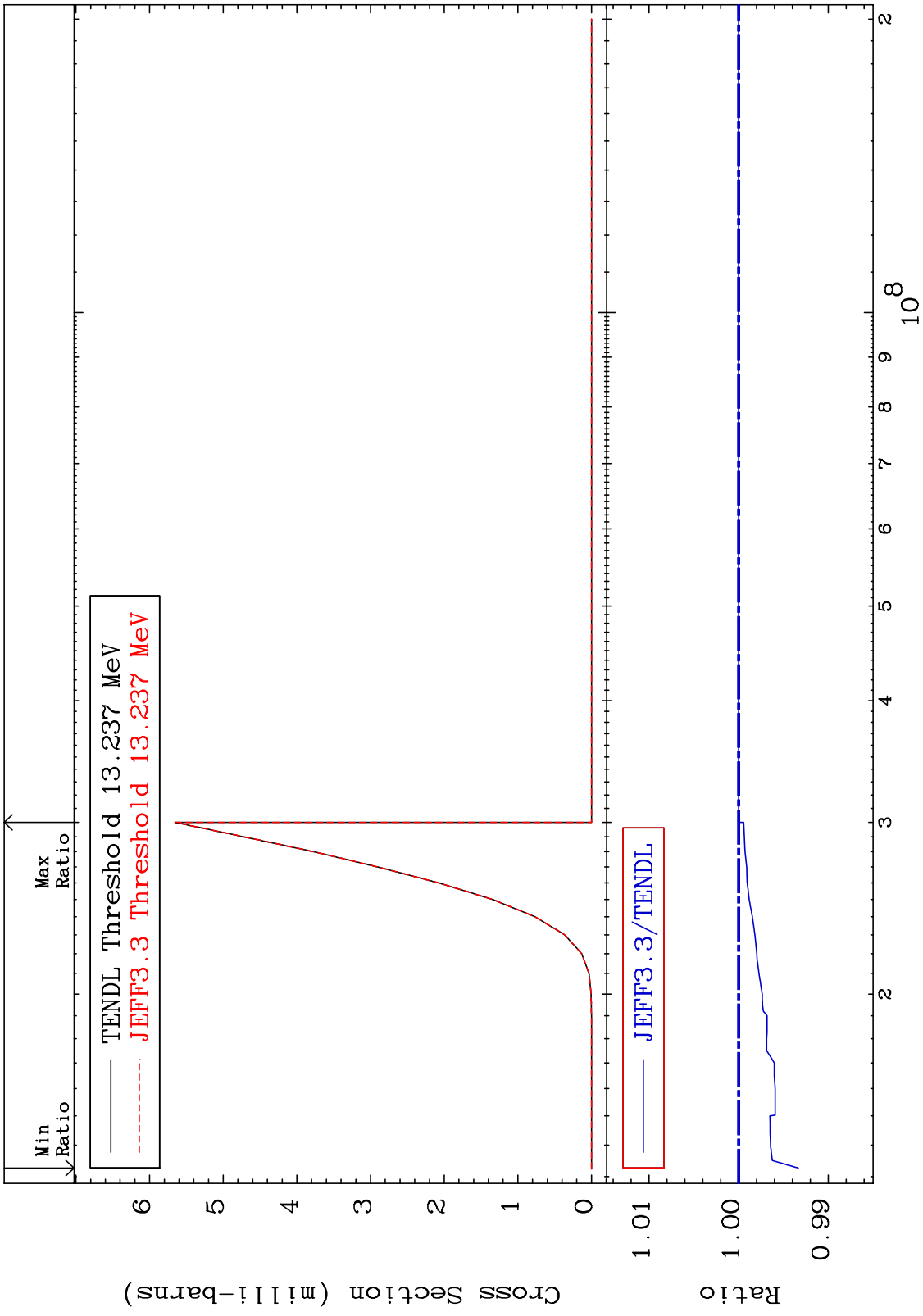


Incident Energy (eV) 57-La-137

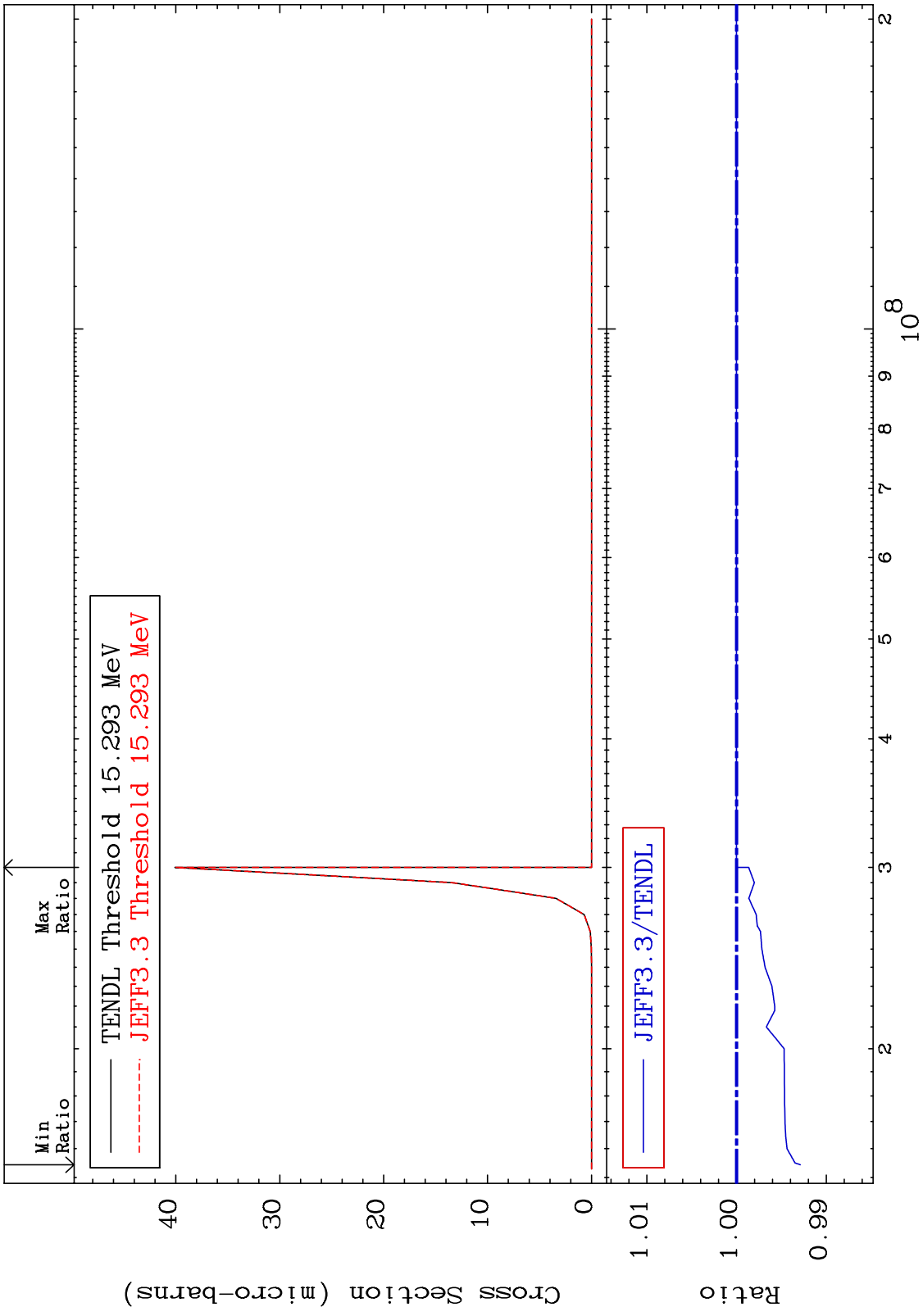
MAT 5722 (n, n') d $^{57}\text{La-137}$
 Cross Section -0.437 To 0.000 %

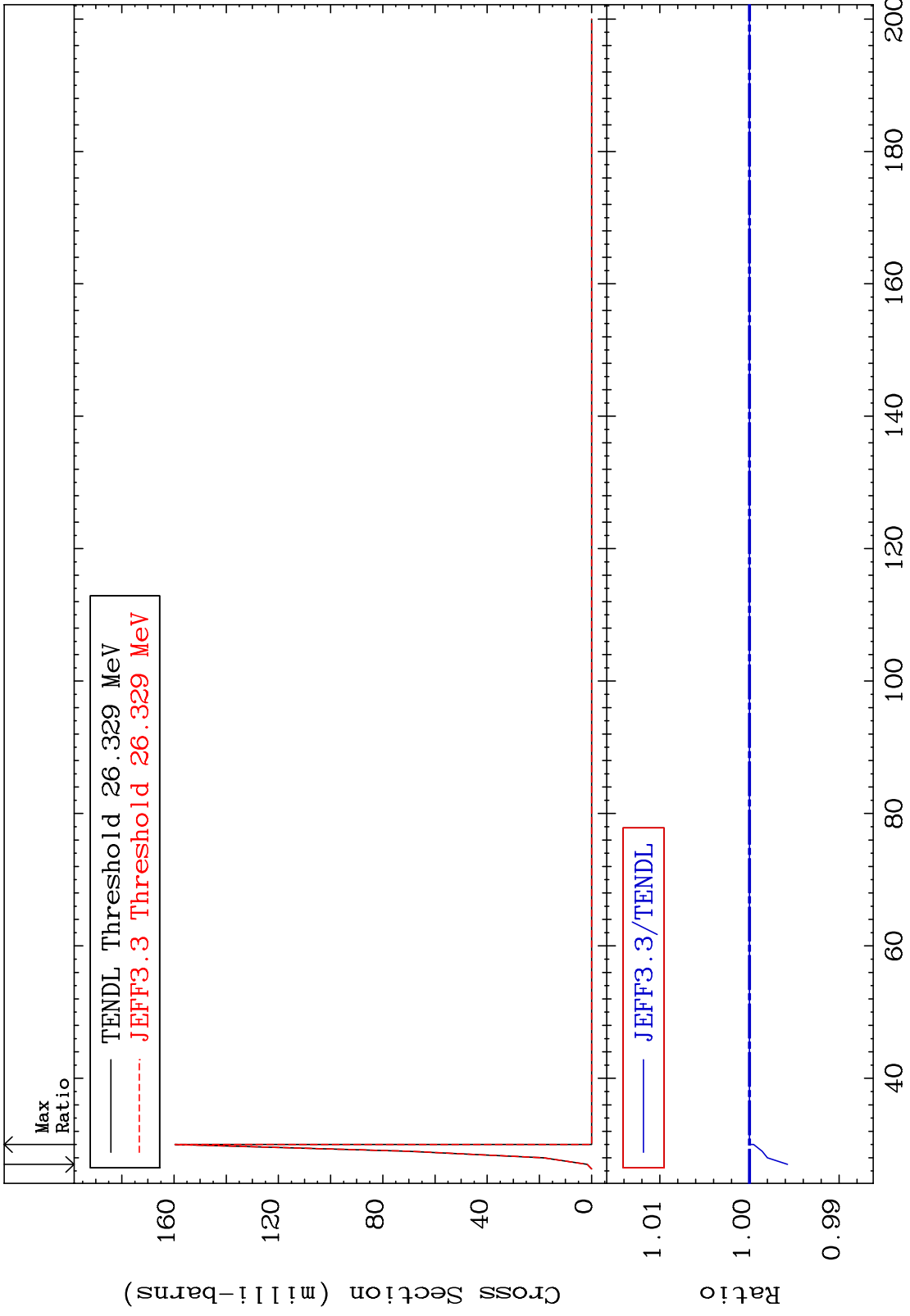


MAT 5722 $(n, n') t$ 57-La-137
 Cross Section -0.664 To 0.000 %

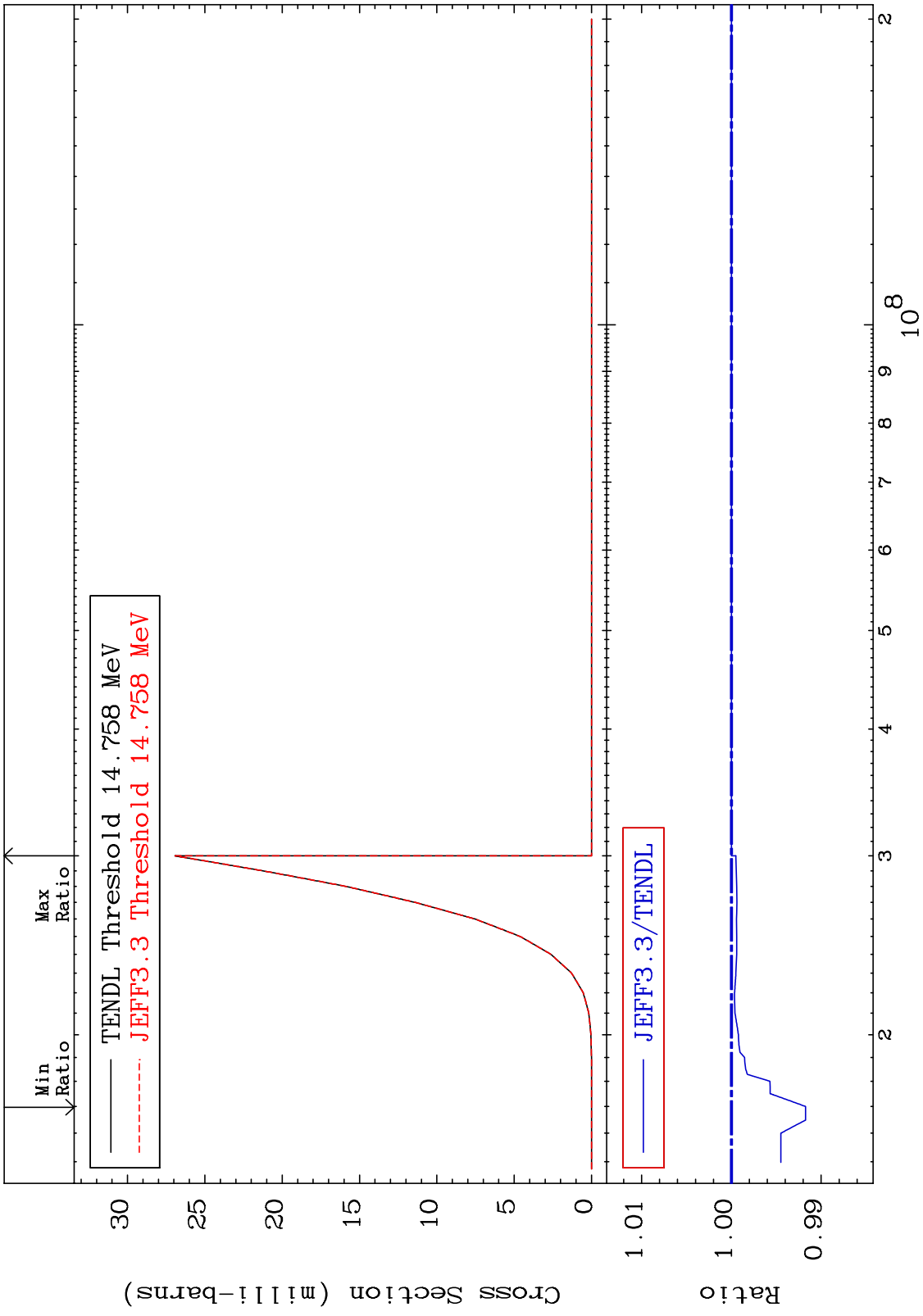


MAT 5722 (n, n') He-3 57-La-137
 Cross Section -0.710 To 0.000 %

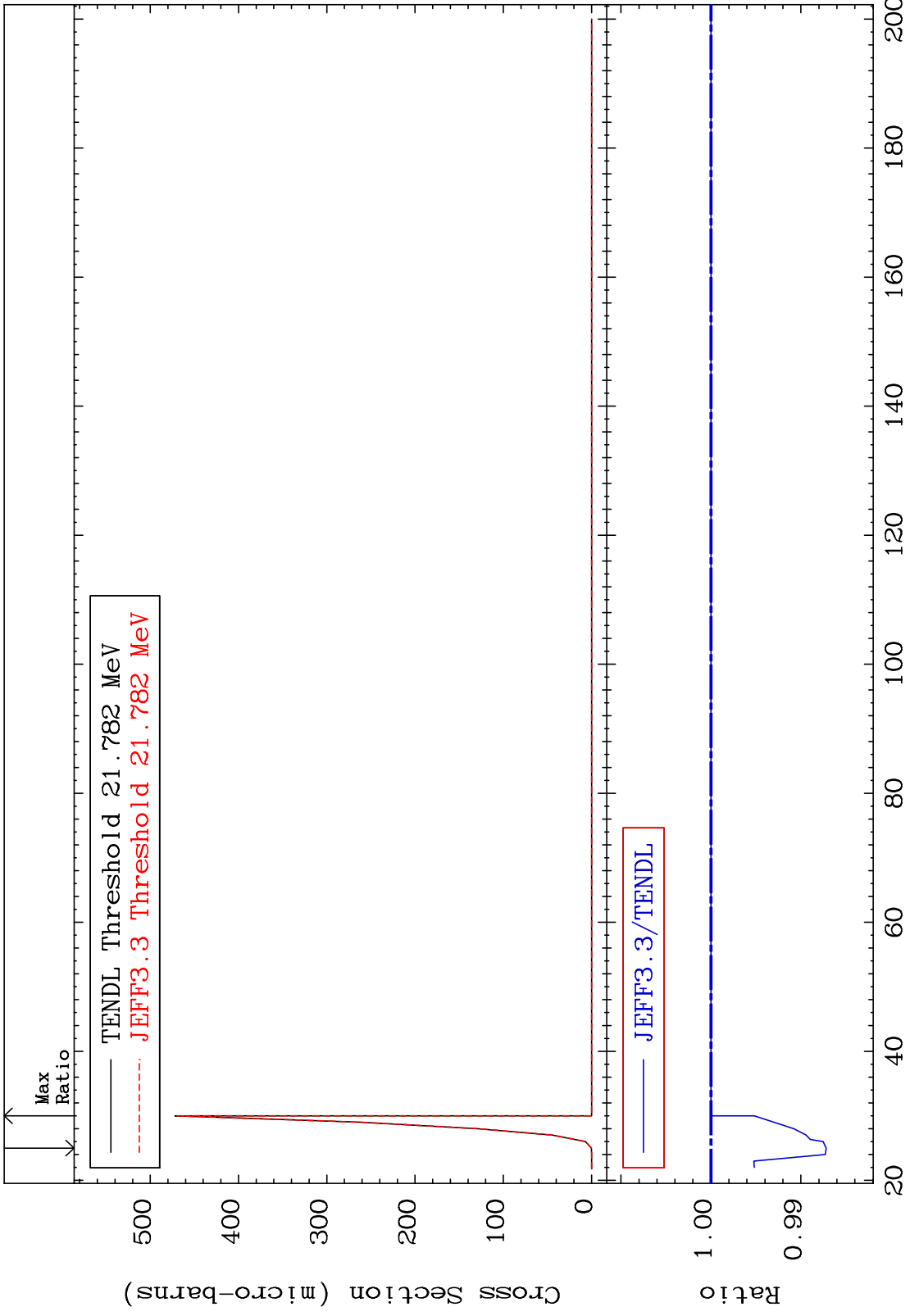




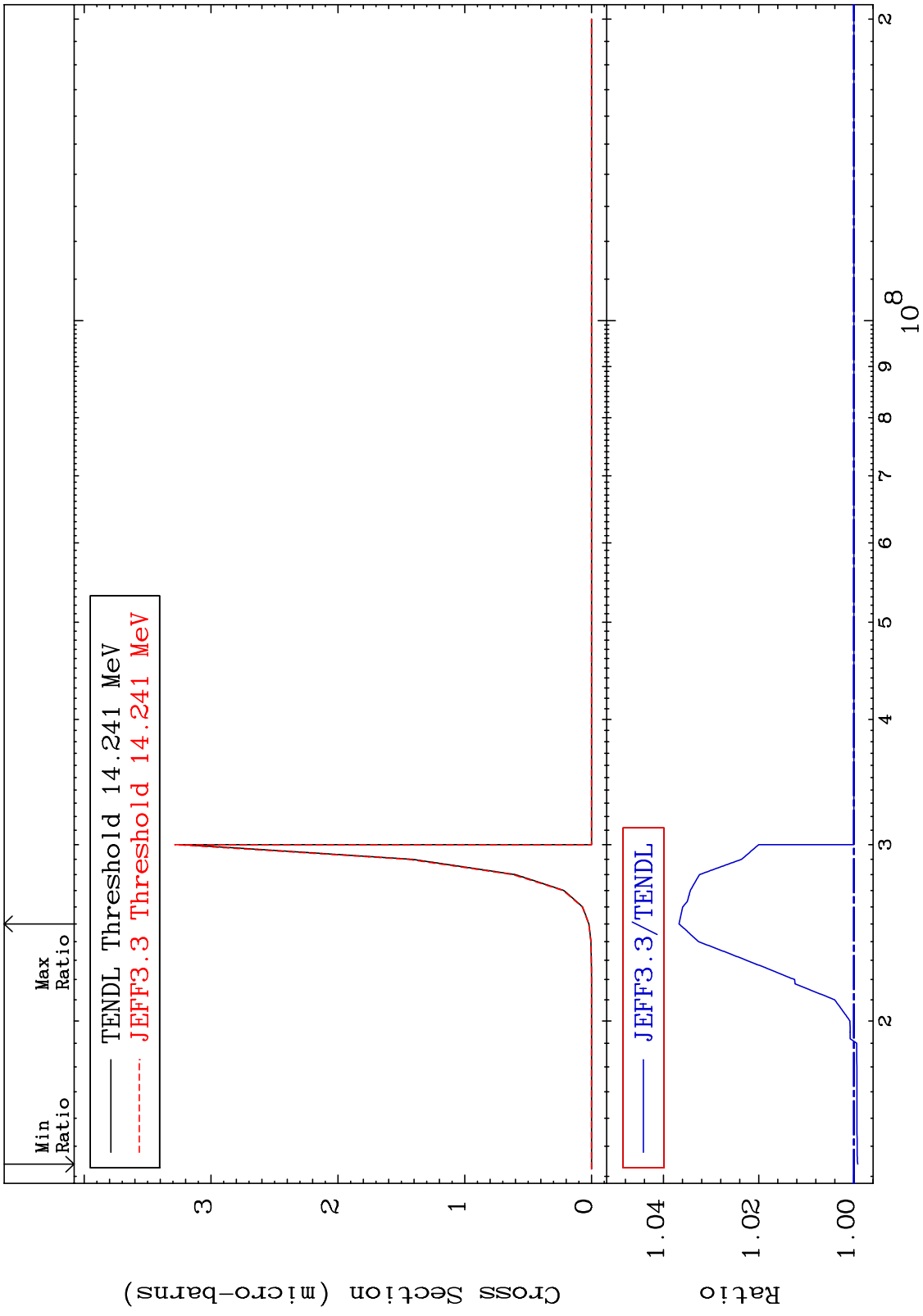
MAT 5722 (n,2n) p 57-La-137
 Cross Section -0.825 To 0.000 %



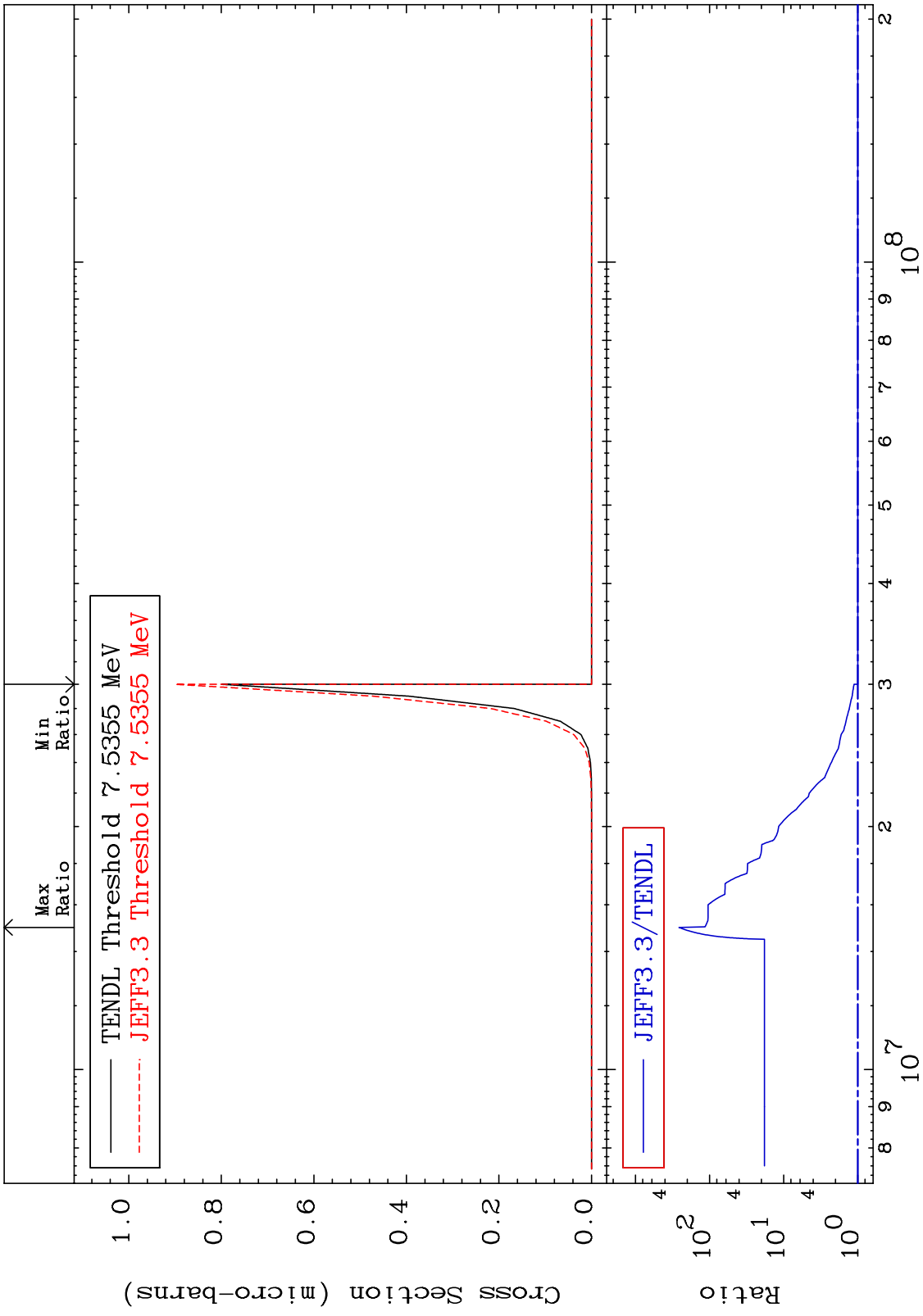
MAT 5722 (n,3n) p 57-La-137
Cross Section -1.280 To 0.000 %



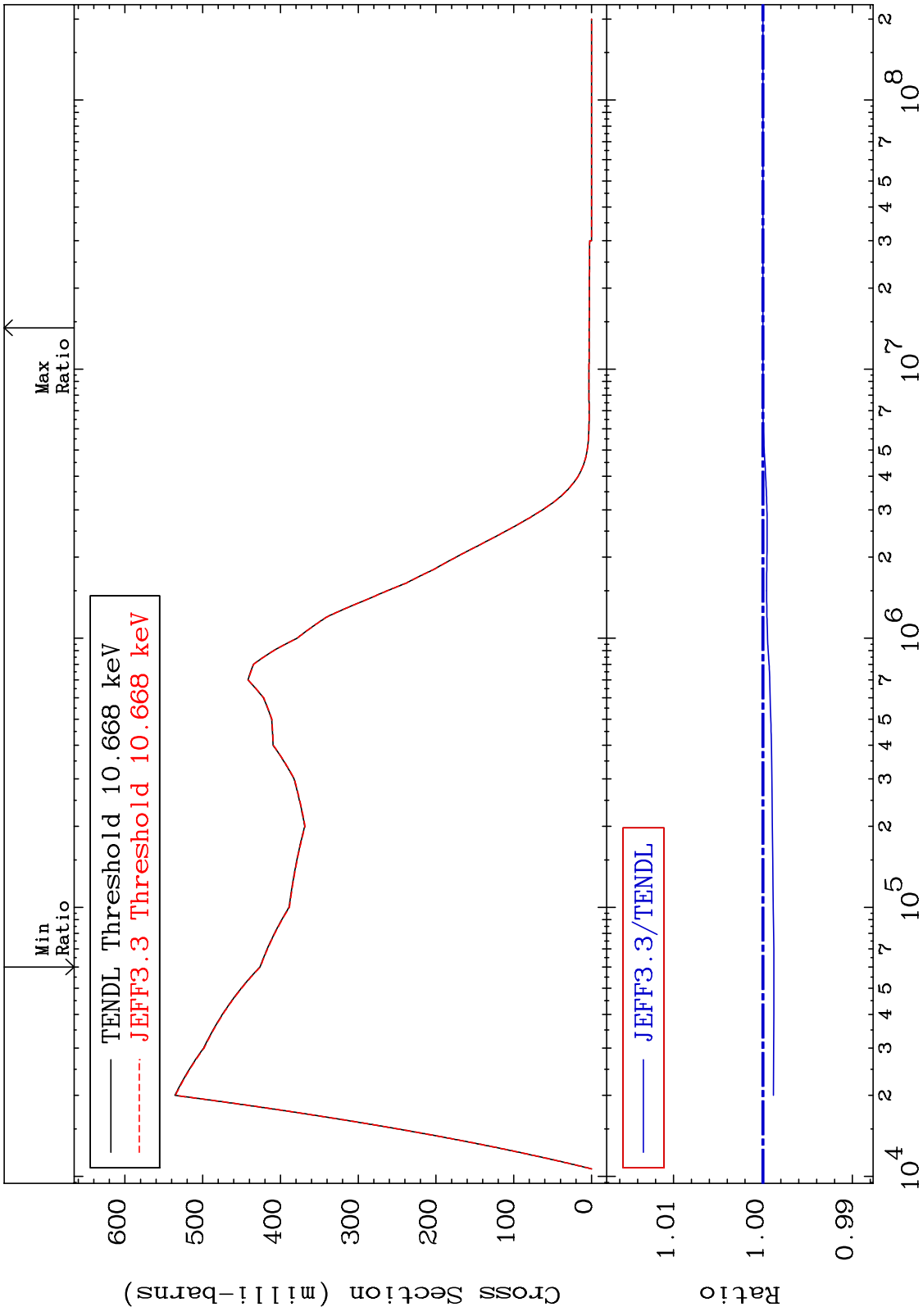
MAT 5722 (n,2n) p 57-La-137
 Cross Section -0.084 To 3.674 %



MAT 5722 57-La-137
(n,n') p α
Cross Section
0.000 To 9999. %

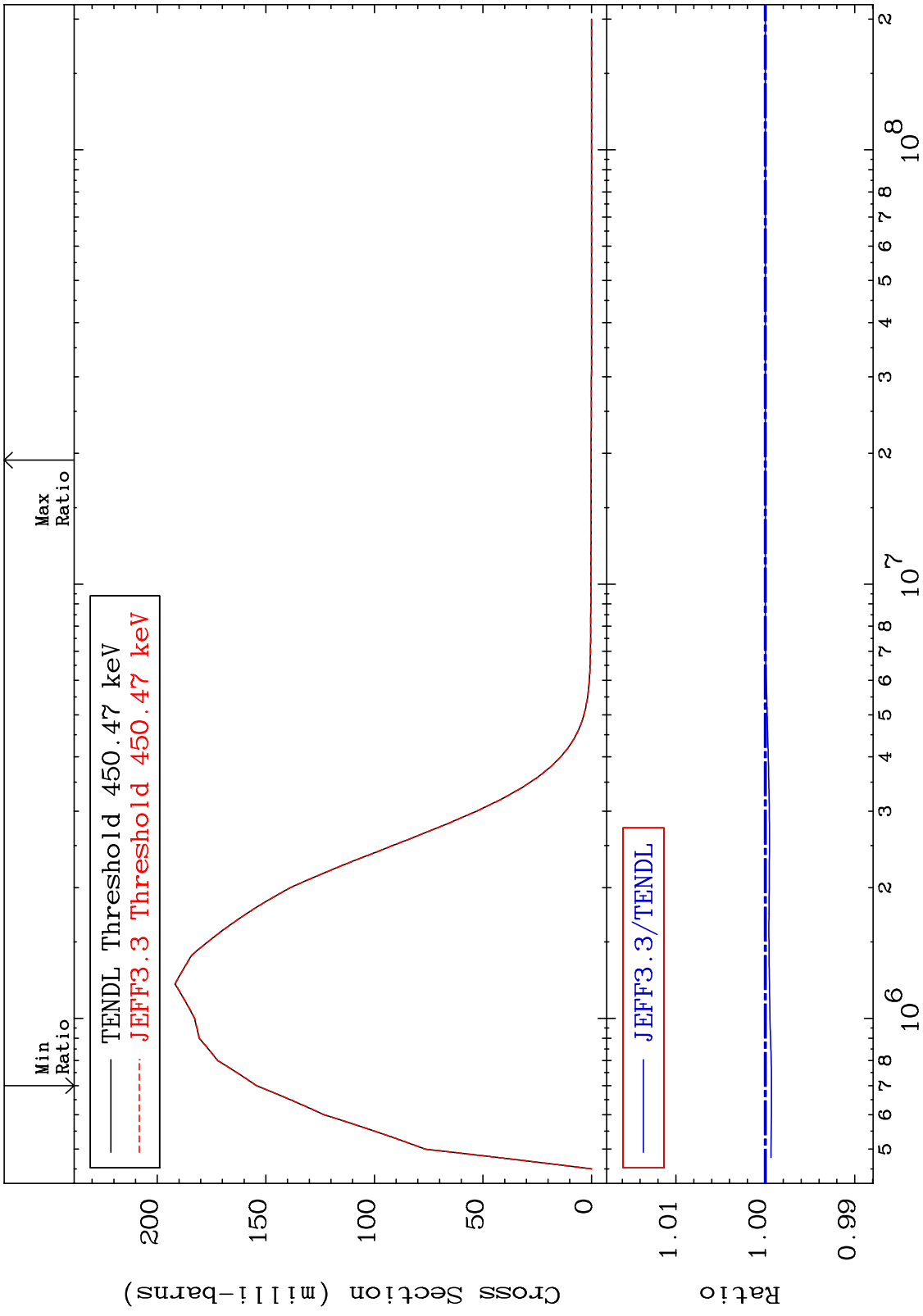


MAT 5722 MT= 51 (n,n') Level Cross Section 57-La-137 -0.122 To 0.000 %

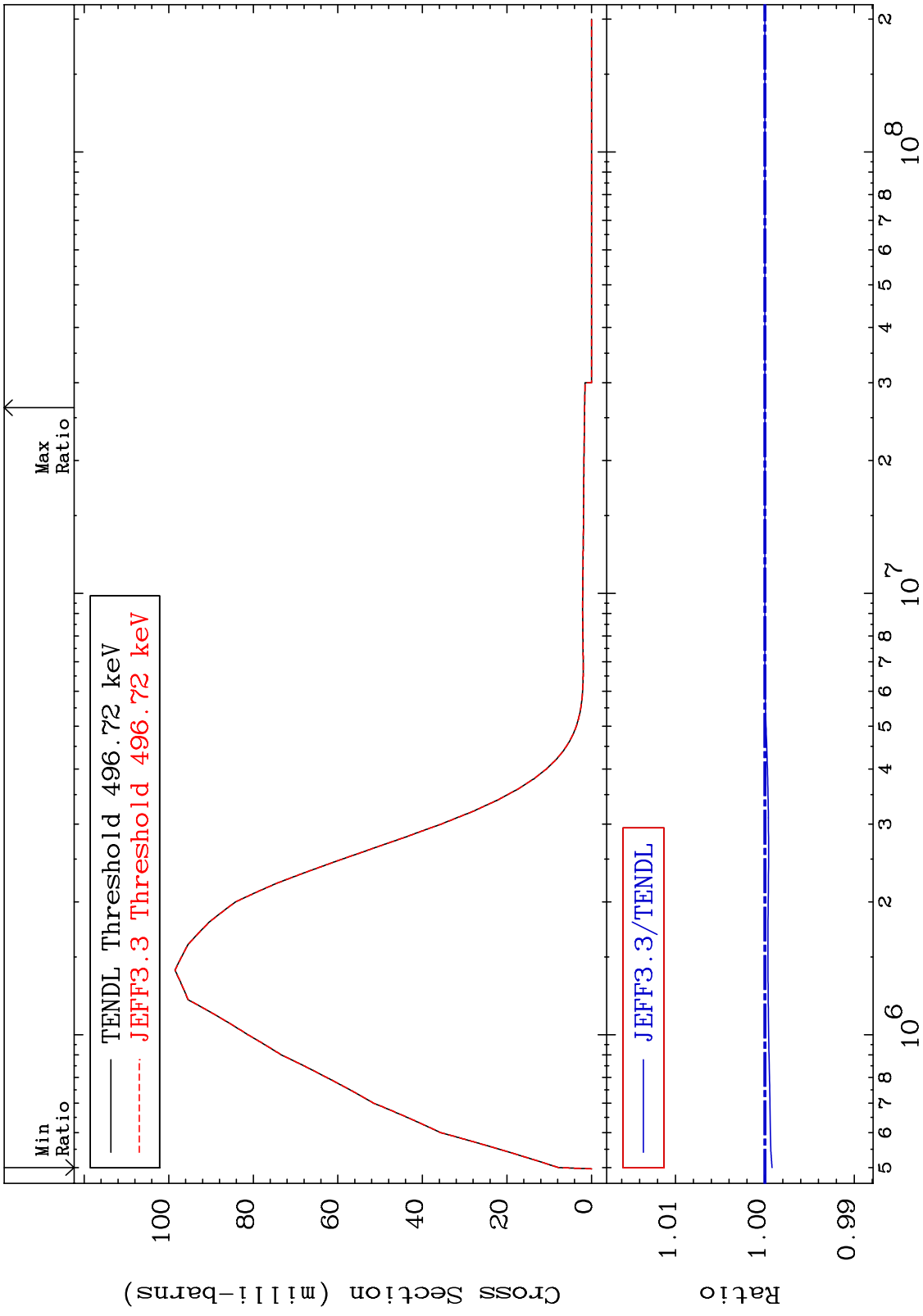


20 Incident Energy (eV) 57-La-137

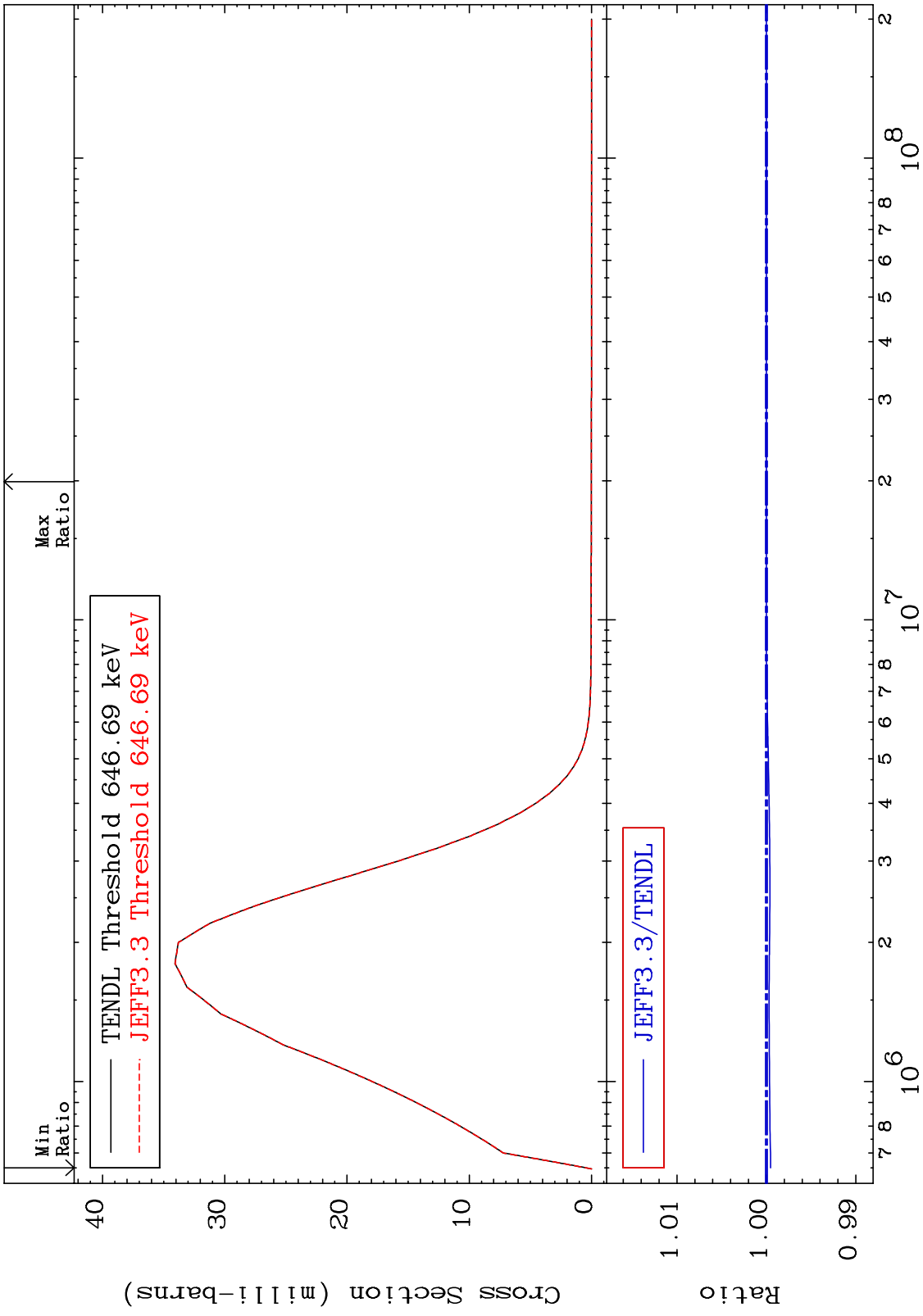
MAT 5722 MT= 52 (n,n') Level Cross Section 57-La-137 -0.069 To 0.000 %



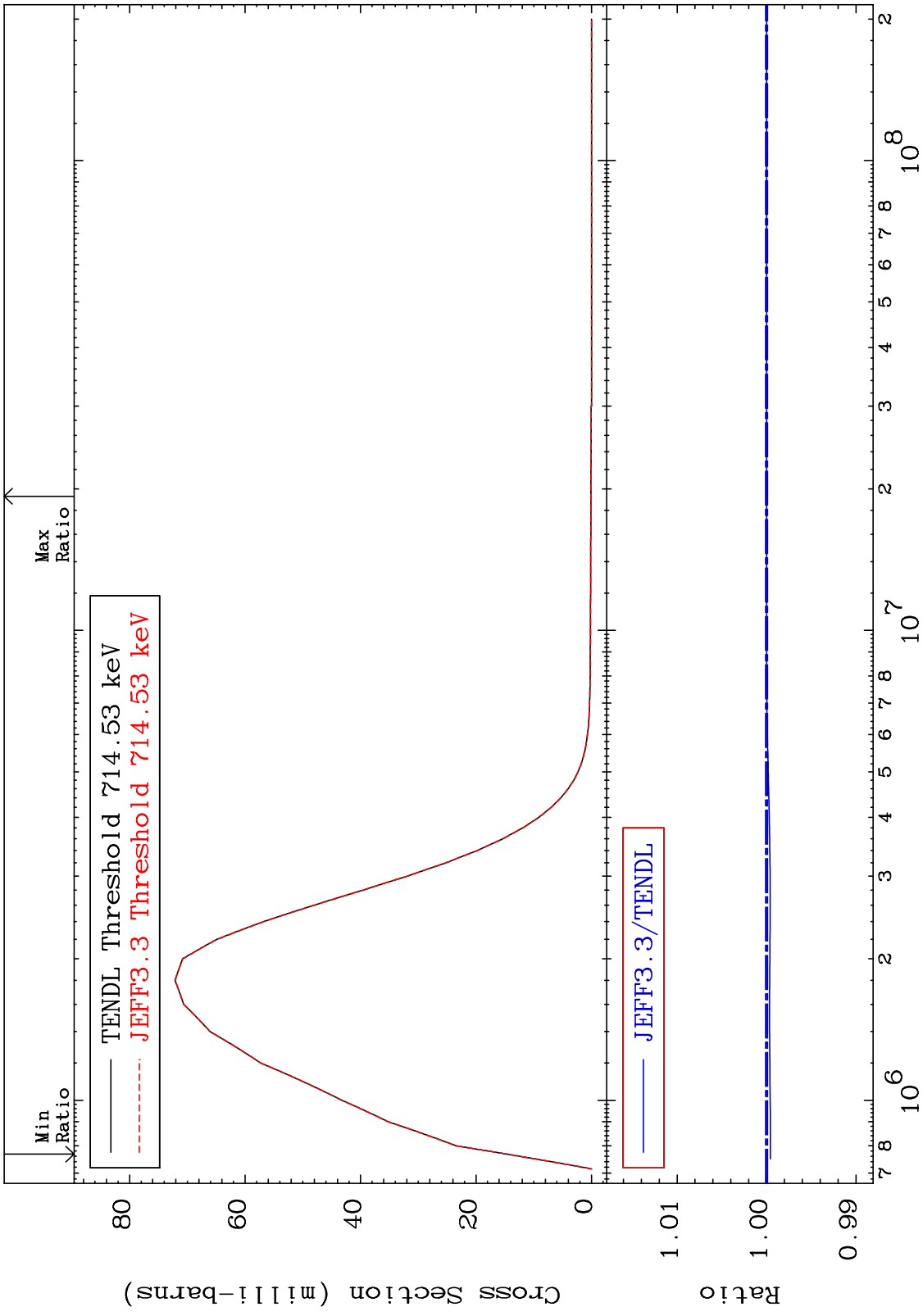
MAT 5722 MT= 53 (n,n') Level Cross Section 57-La-137 -0.080 To 0.000 %



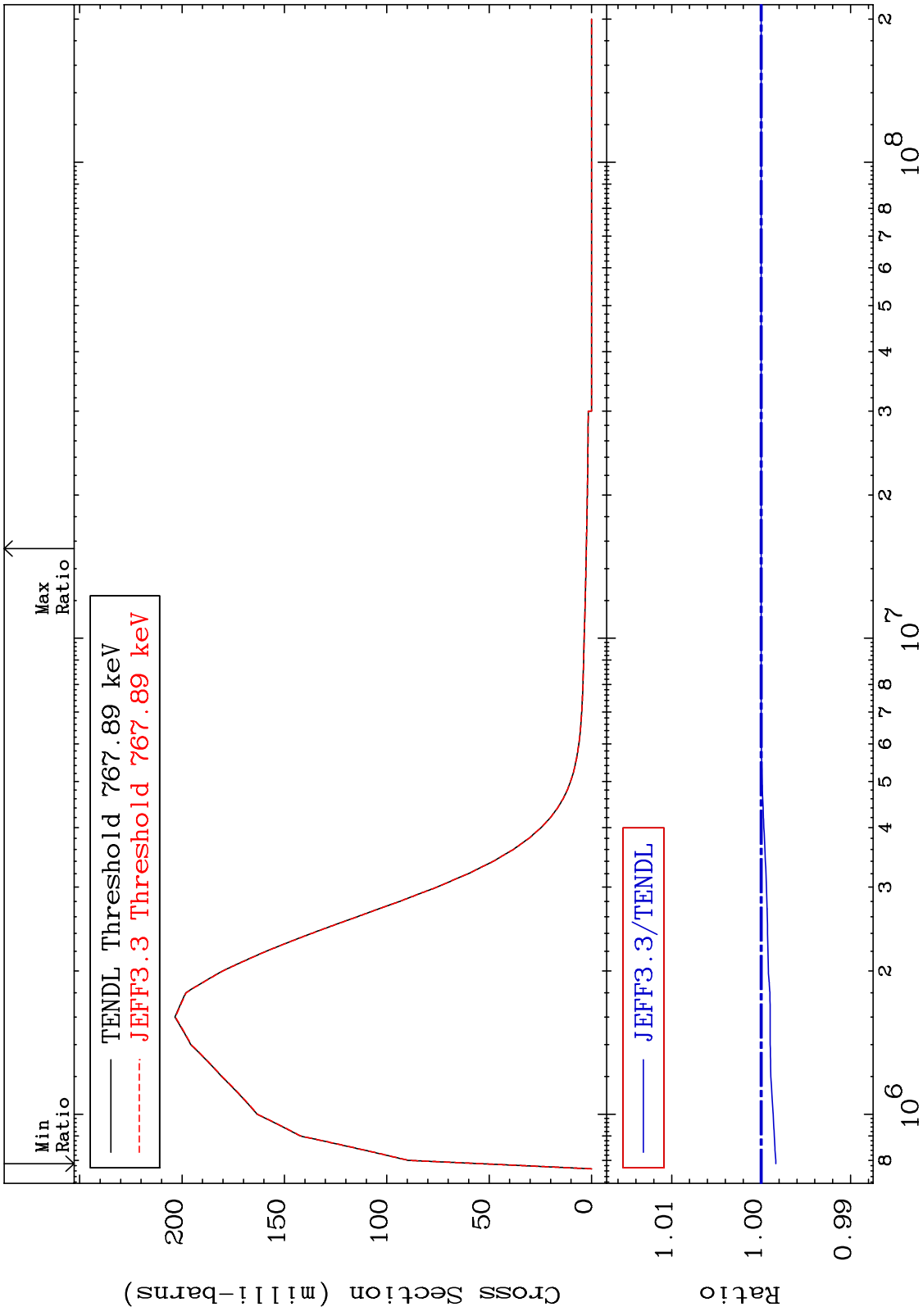
MAT 5722 MT= 54 (n,n') Level Cross Section 57-La-137 -0.046 To 0.000 %



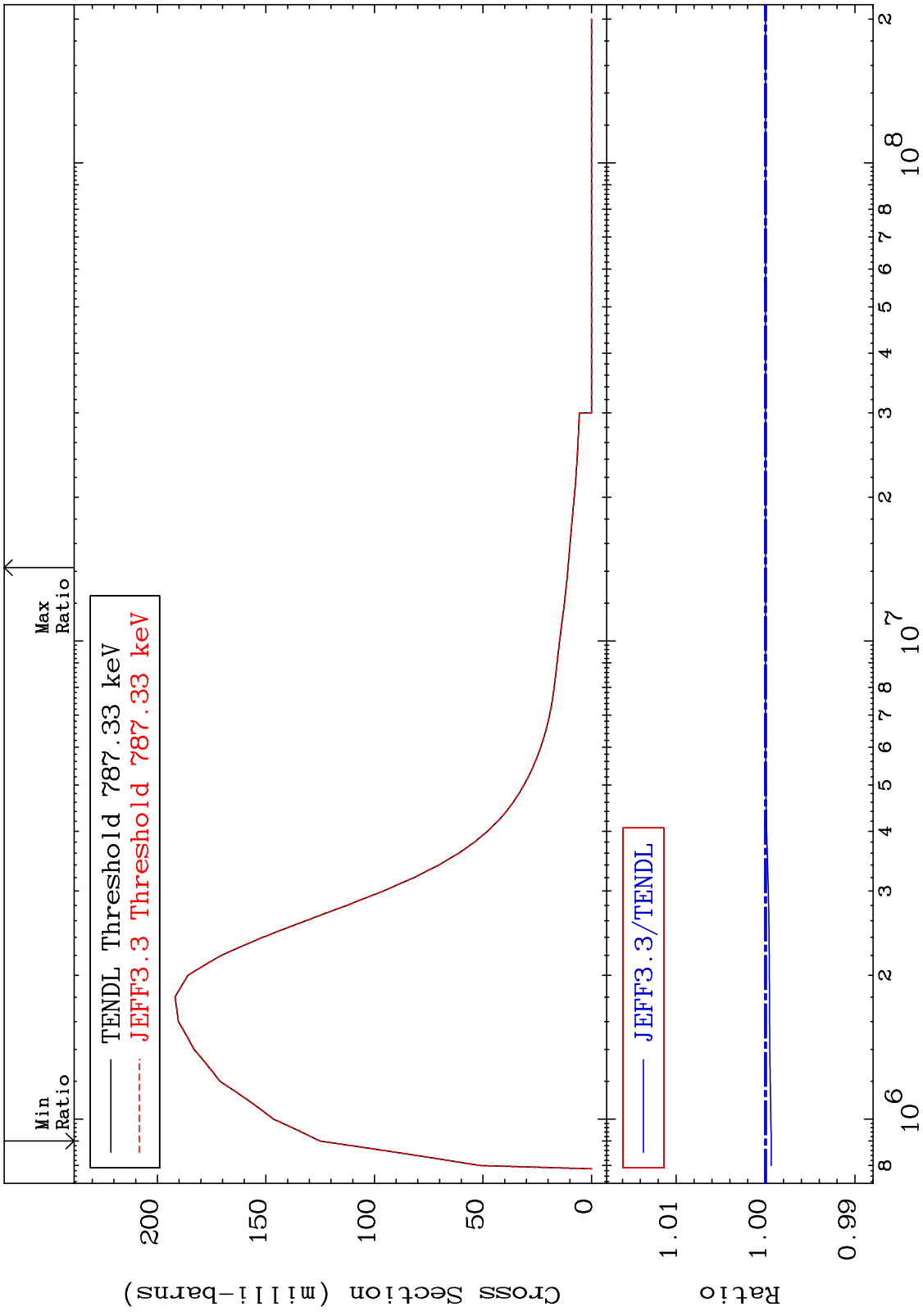
MAT 5722 MT= 55 (n,n') Level Cross Section 57-La-137 -0.043 To 0.000 %



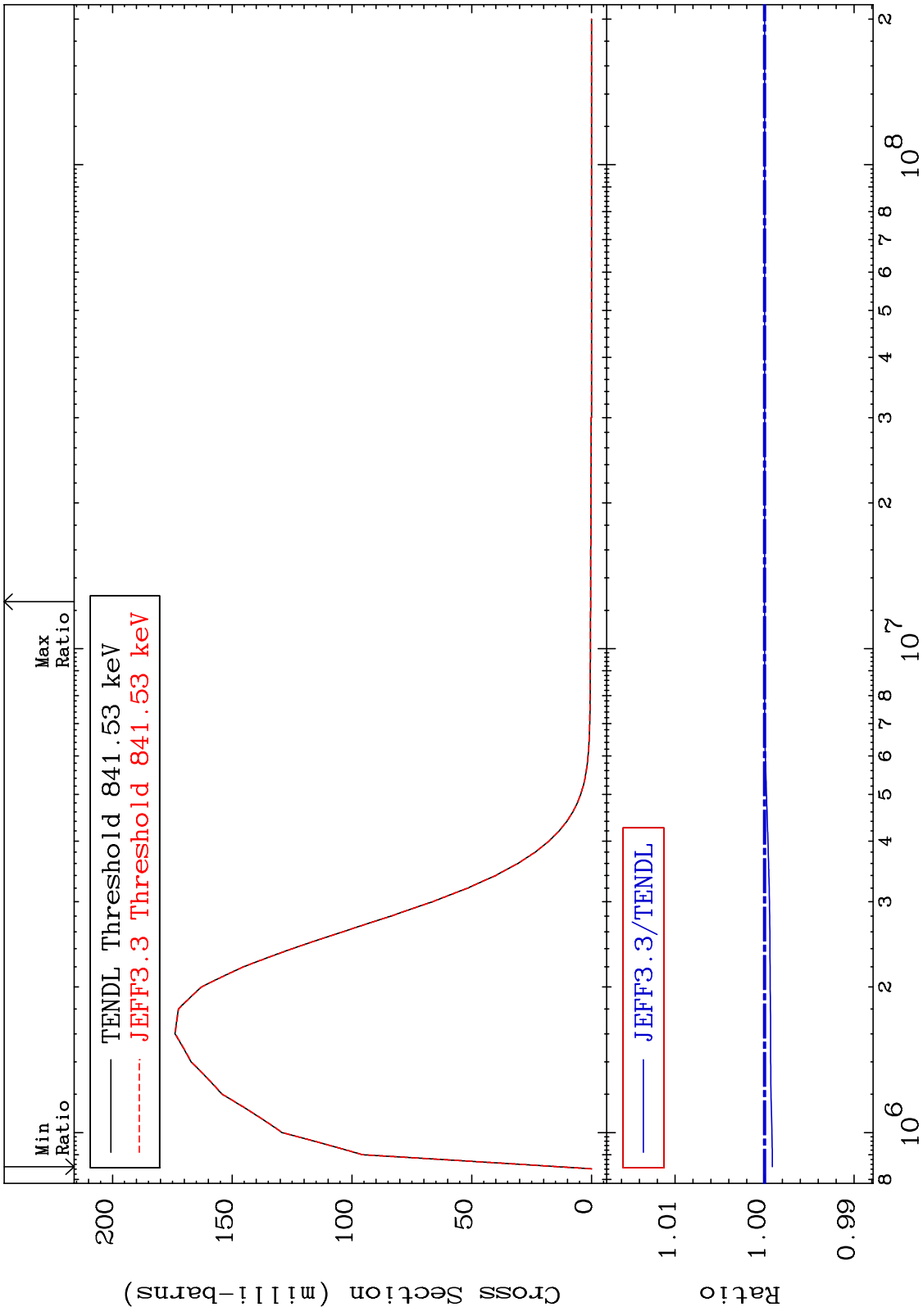
MAT 5722 MT= 56 (n,n') Level Cross Section 57-La-137 -0.163 To 0.000 %



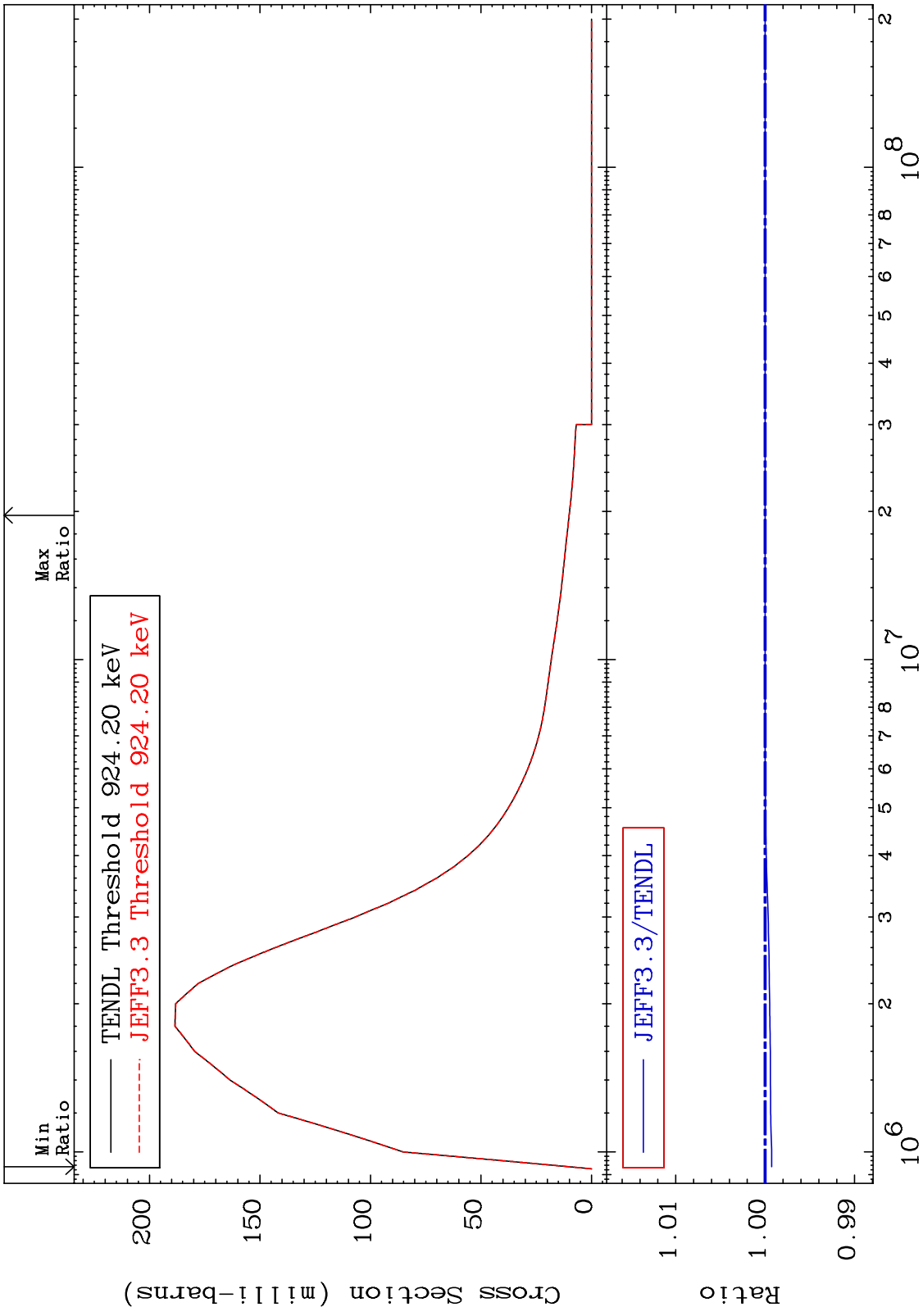
MAT 5722 MT= 57 (n,n') Level Cross Section 57-La-137 -0.064 To 0.000 %



MAT 5722 MT= 58 (n,n') Level Cross Section 57-La-137 -0.087 To 0.000 %

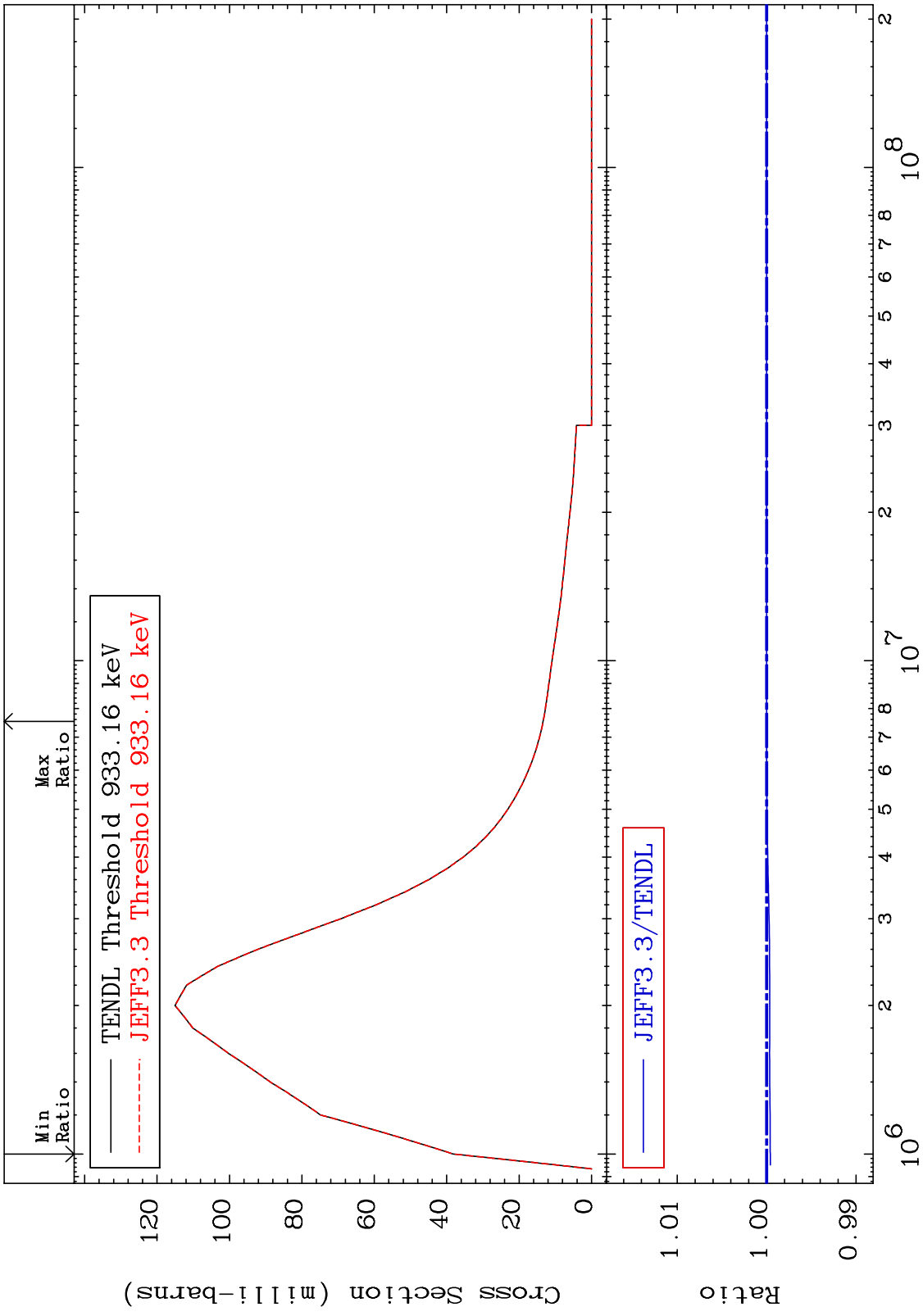


MAT 5722 MT= 59 (n, n') Level Cross Section 57-La-137 -0.073 To 0.000 %

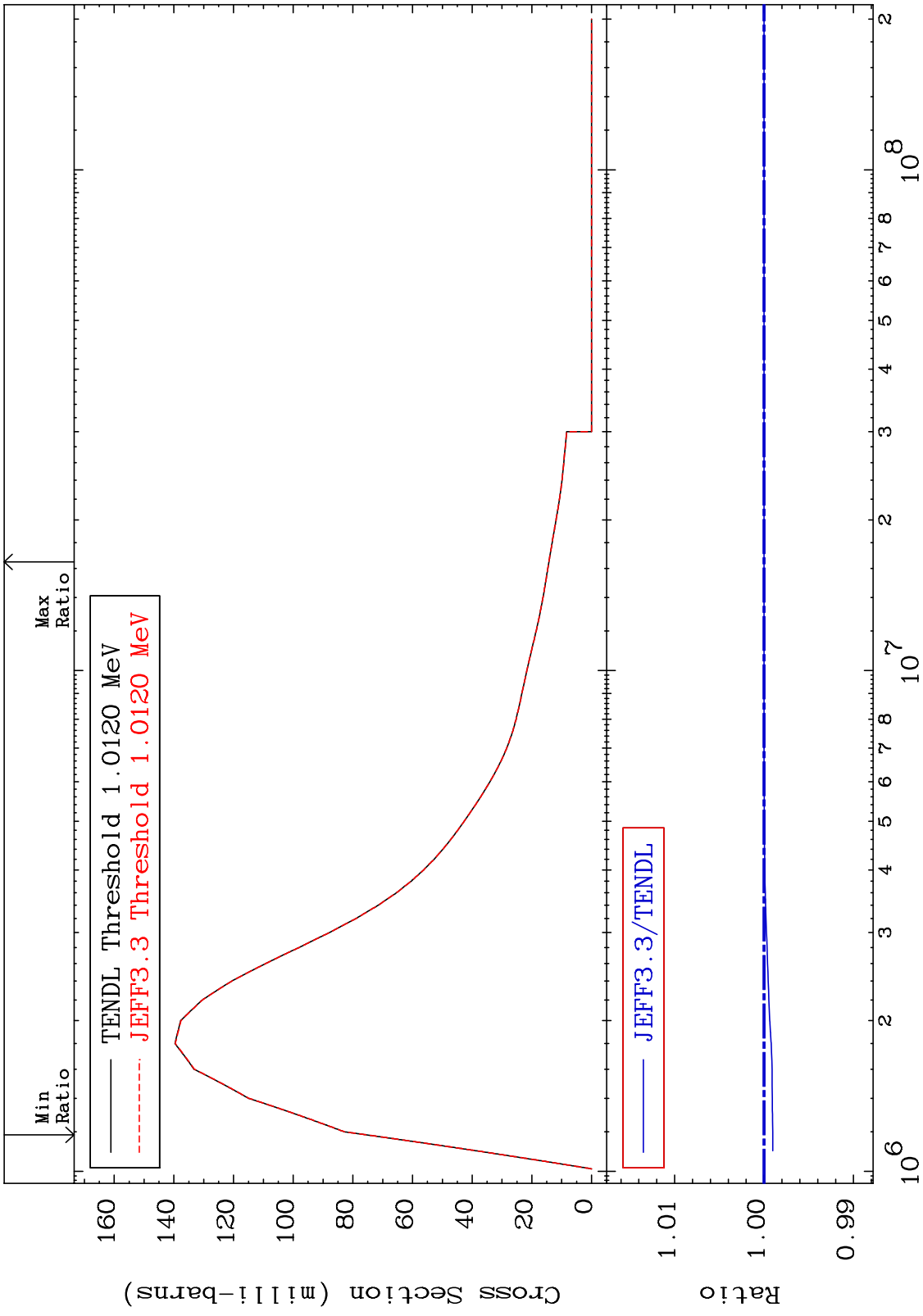


28 Incident Energy (eV) 57-La-137

MAT 5722 MT= 60 (n,n') Level Cross Section 57-La-137 -0.041 To 0.000 %

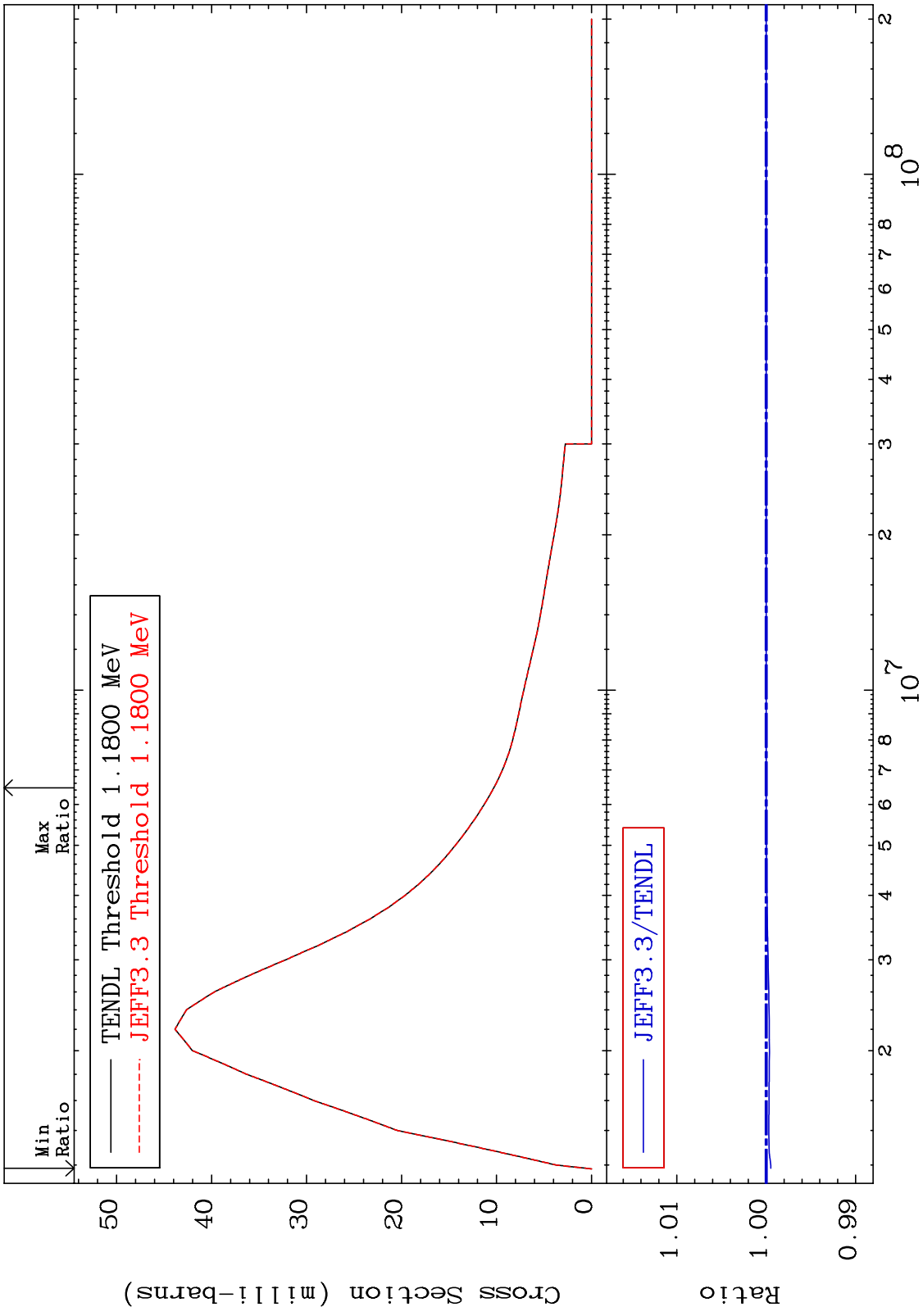


MAT 5722 MT= 61 (n,n') Level Cross Section 57-La-137 -0.098 To 0.000 %

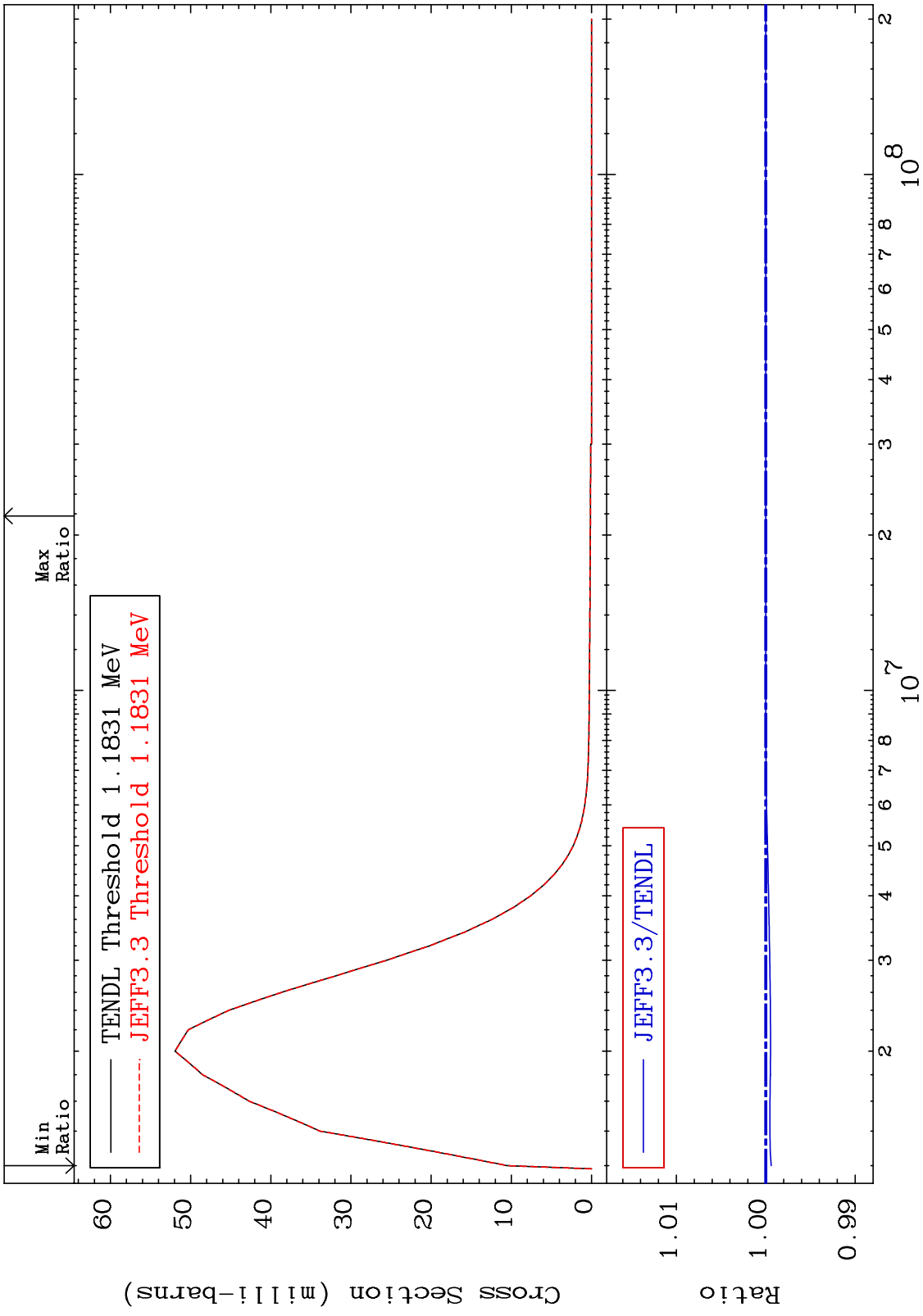


Incident Energy (eV) 57-La-137

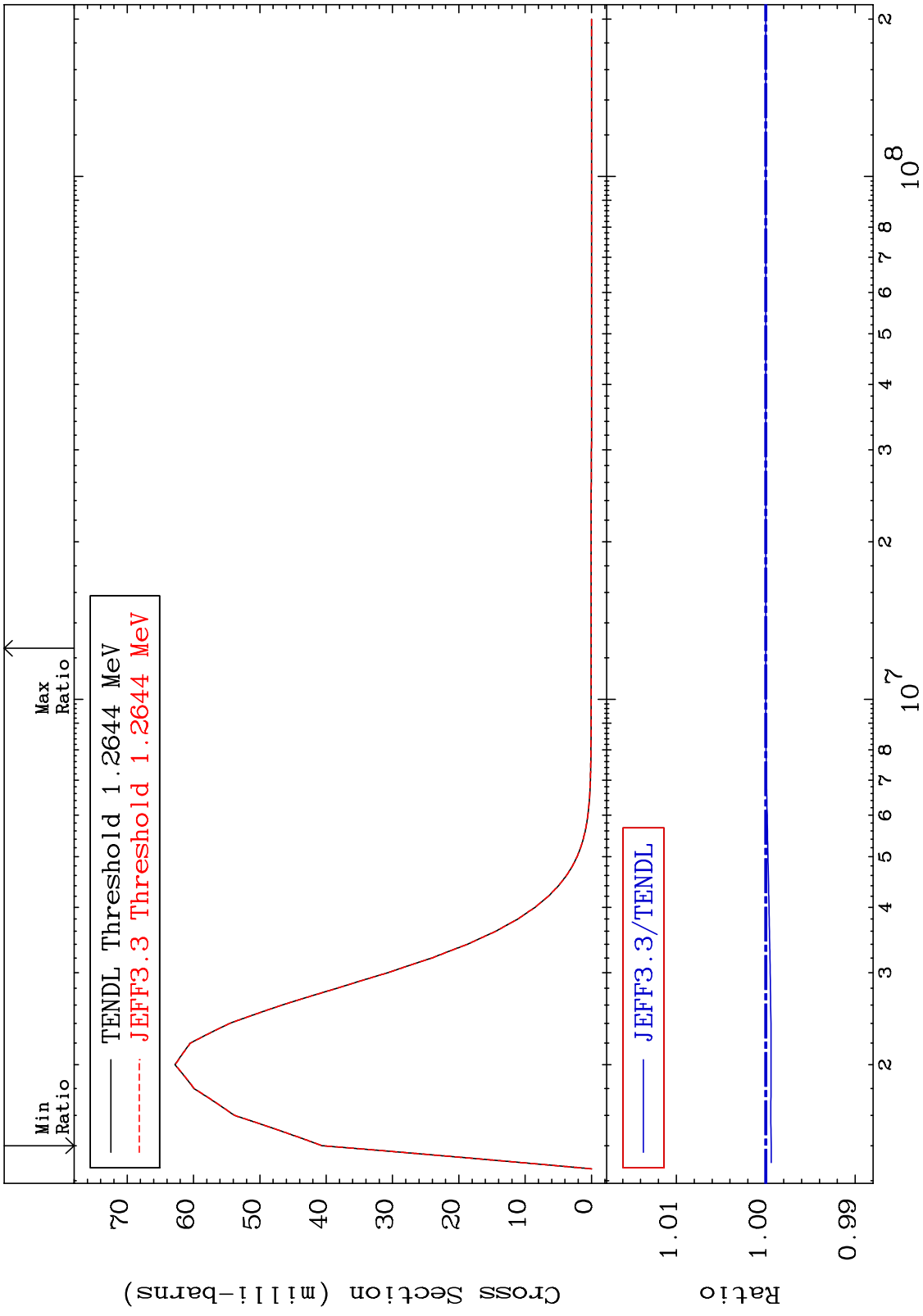
MAT 5722 MT= 62 (n,n') Level Cross Section 57-La-137 -0.050 To 0.000 %



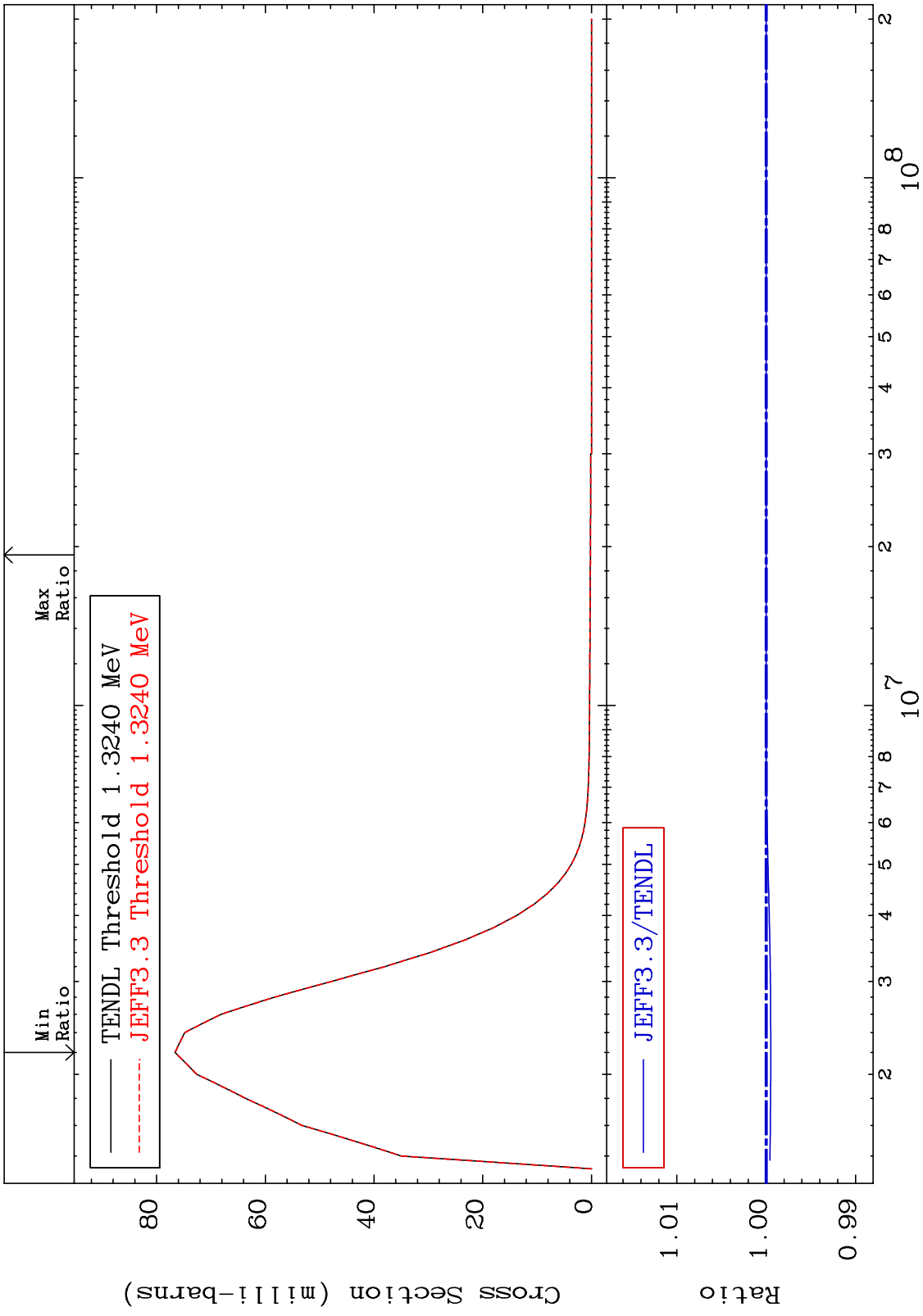
MAT 5722 MT= 63 (n,n') Level Cross Section 57-La-137 -0.060 To 0.000 %



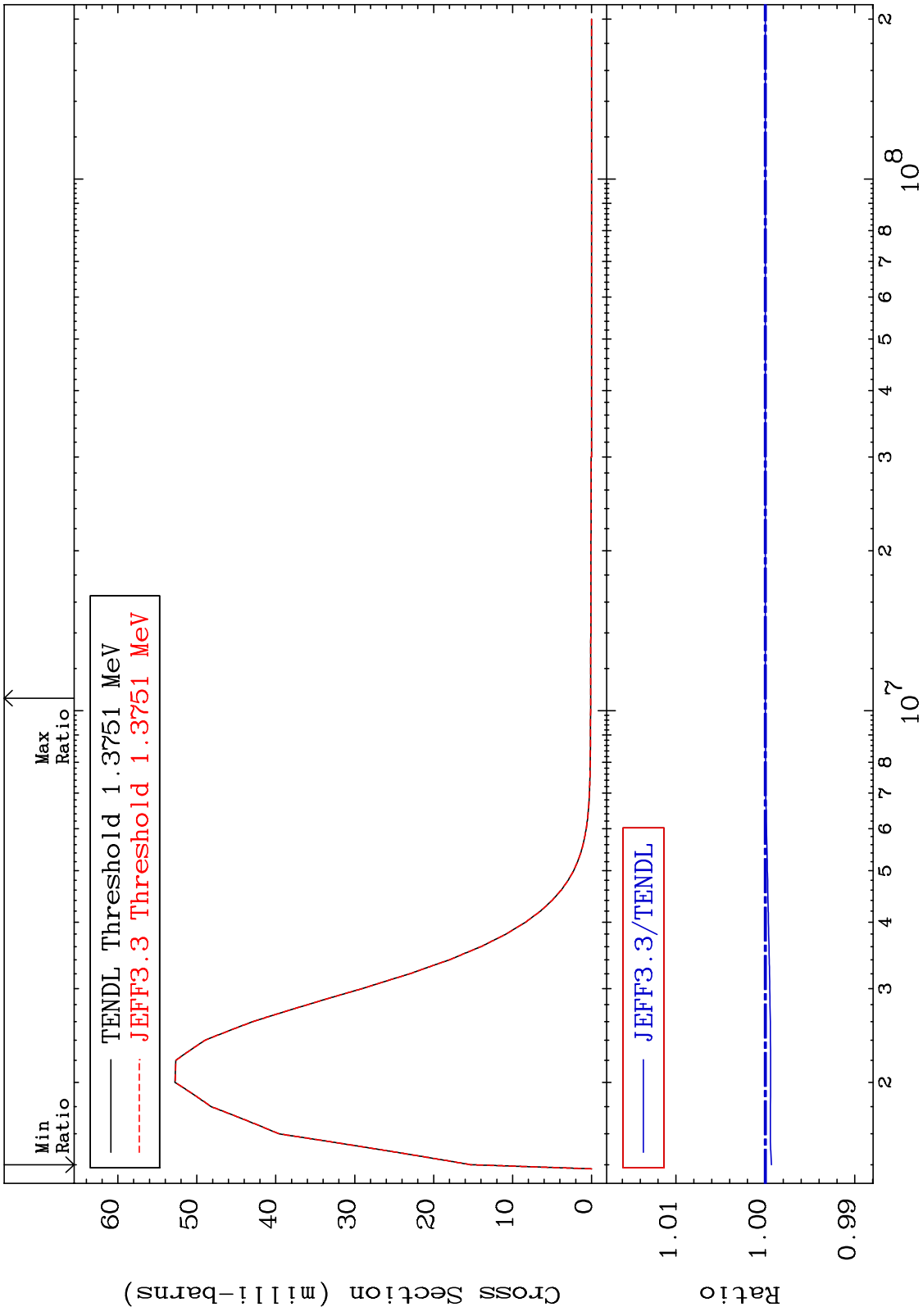
MAT 5722 MT= 64 (n,n') Level Cross Section 57-La-137 -0.060 To 0.000 %



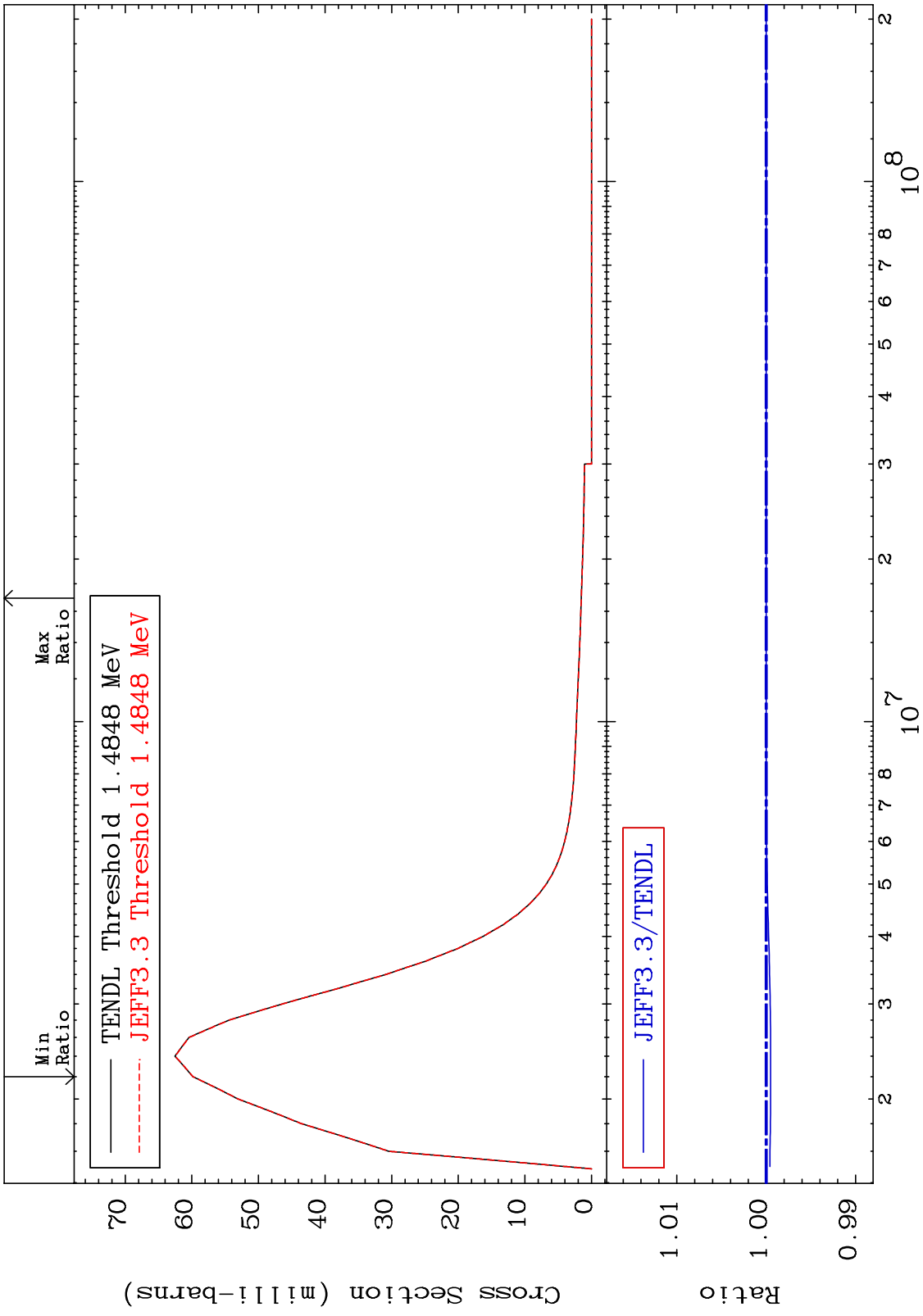
MAT 5722 MT= 65 (n,n') Level Cross Section 57-La-137 -0.051 To 0.000 %



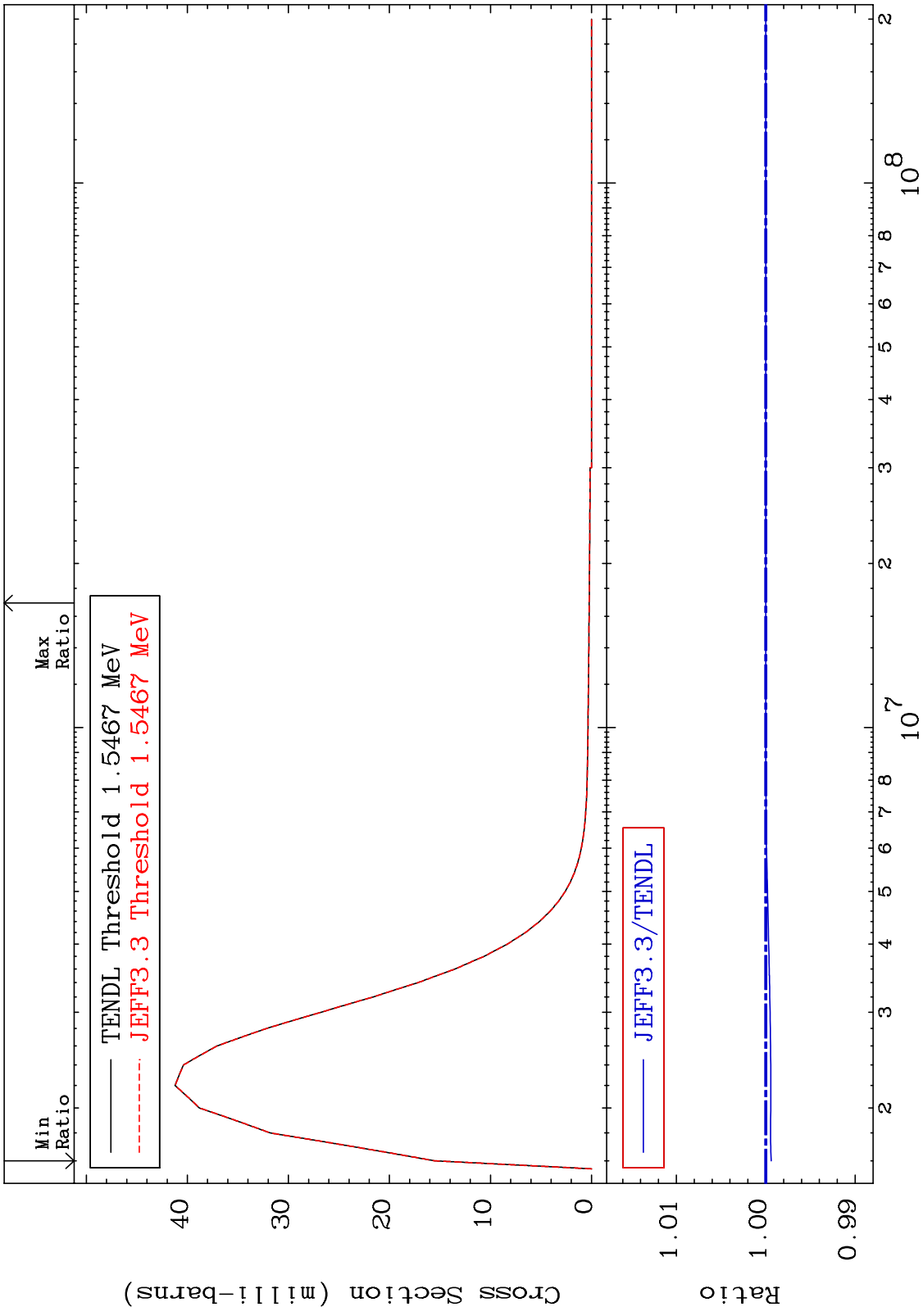
MAT 5722 MT= 66 (n,n') Level Cross Section 57-La-137 -0.069 To 0.000 %



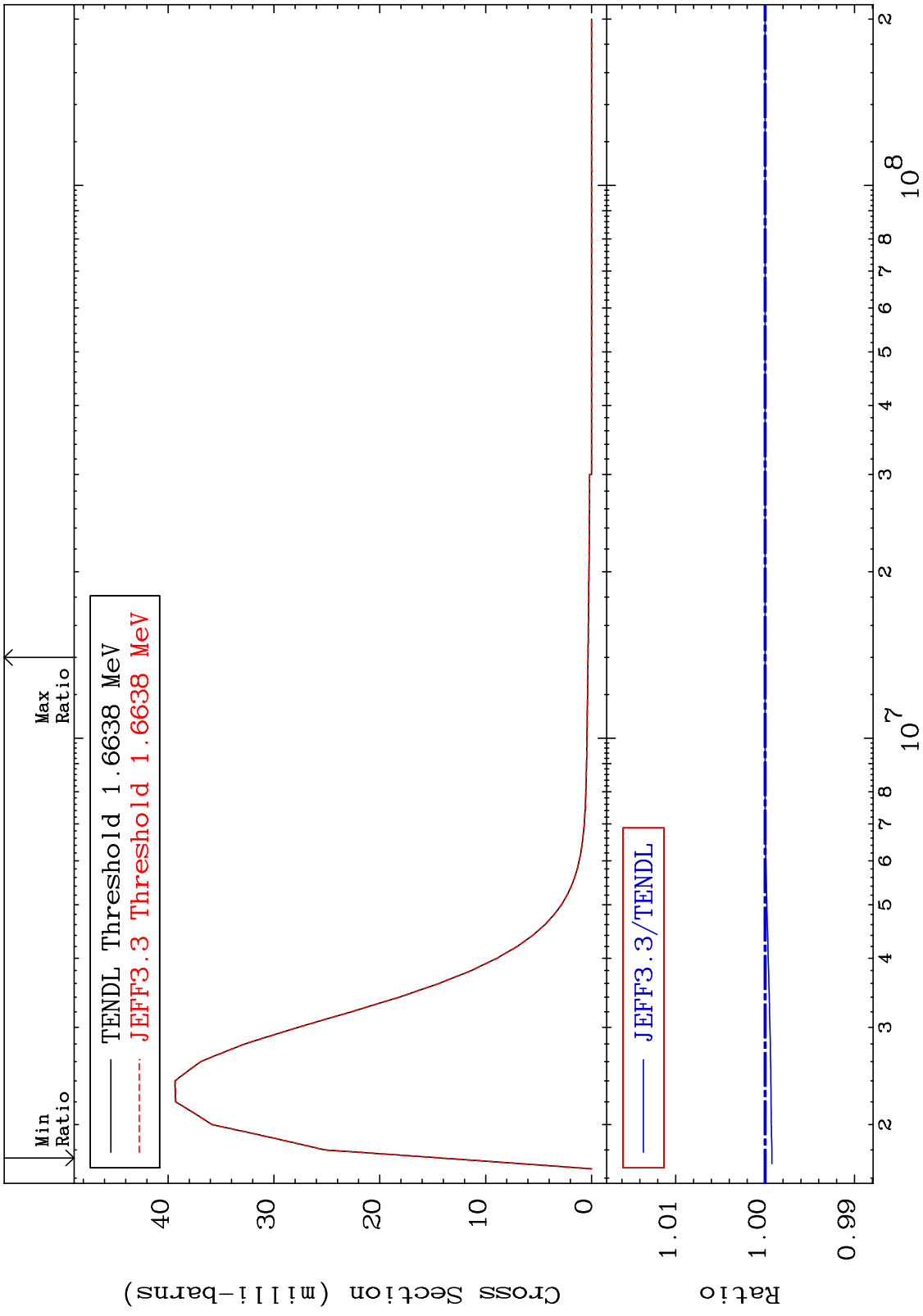
MAT 5722 MT= 67 (n,n') Level Cross Section 57-La-137 -0.050 To 0.000 %



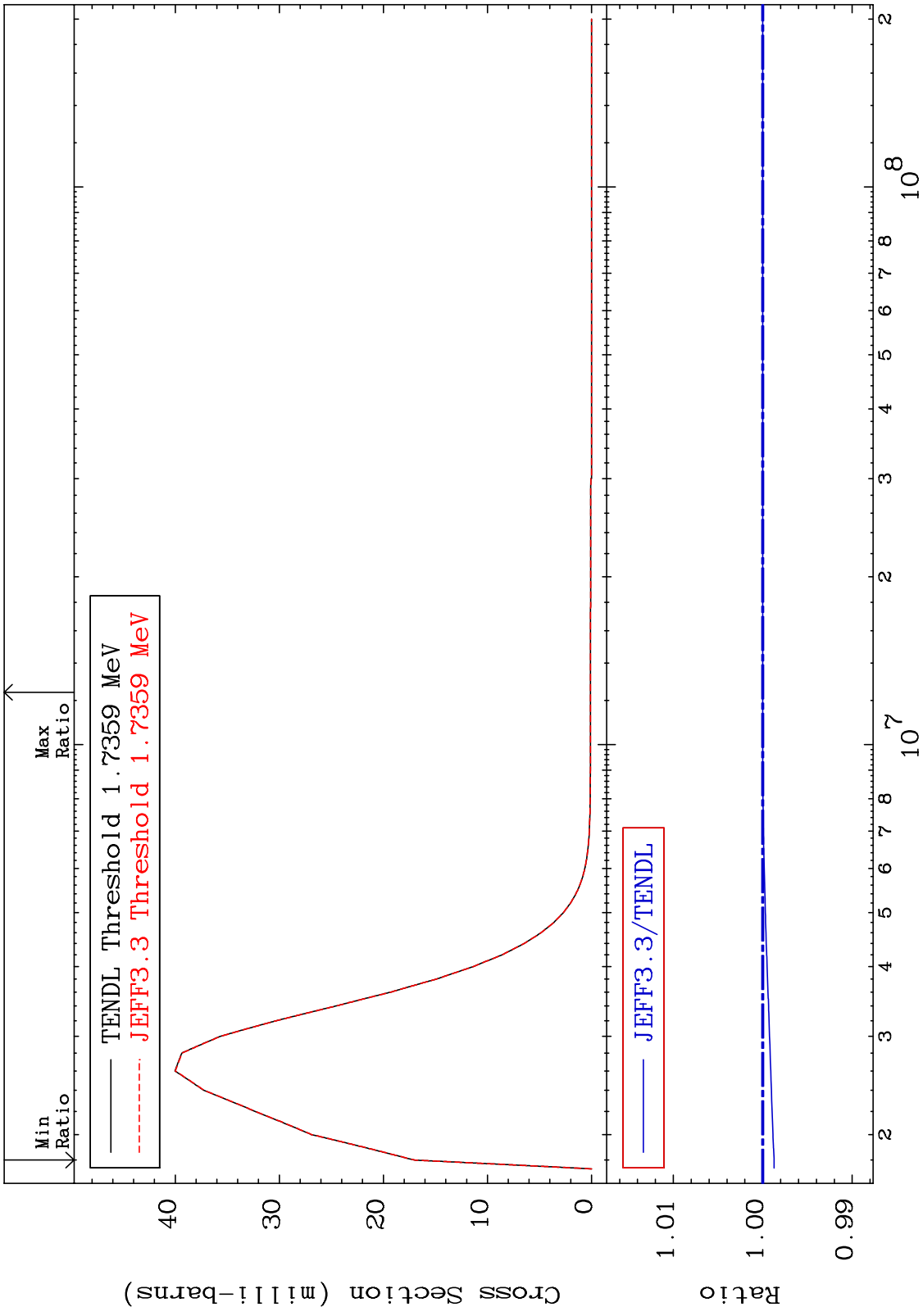
MAT 5722 MT= 68 (n,n') Level Cross Section 57-La-137 -0.060 To 0.000 %



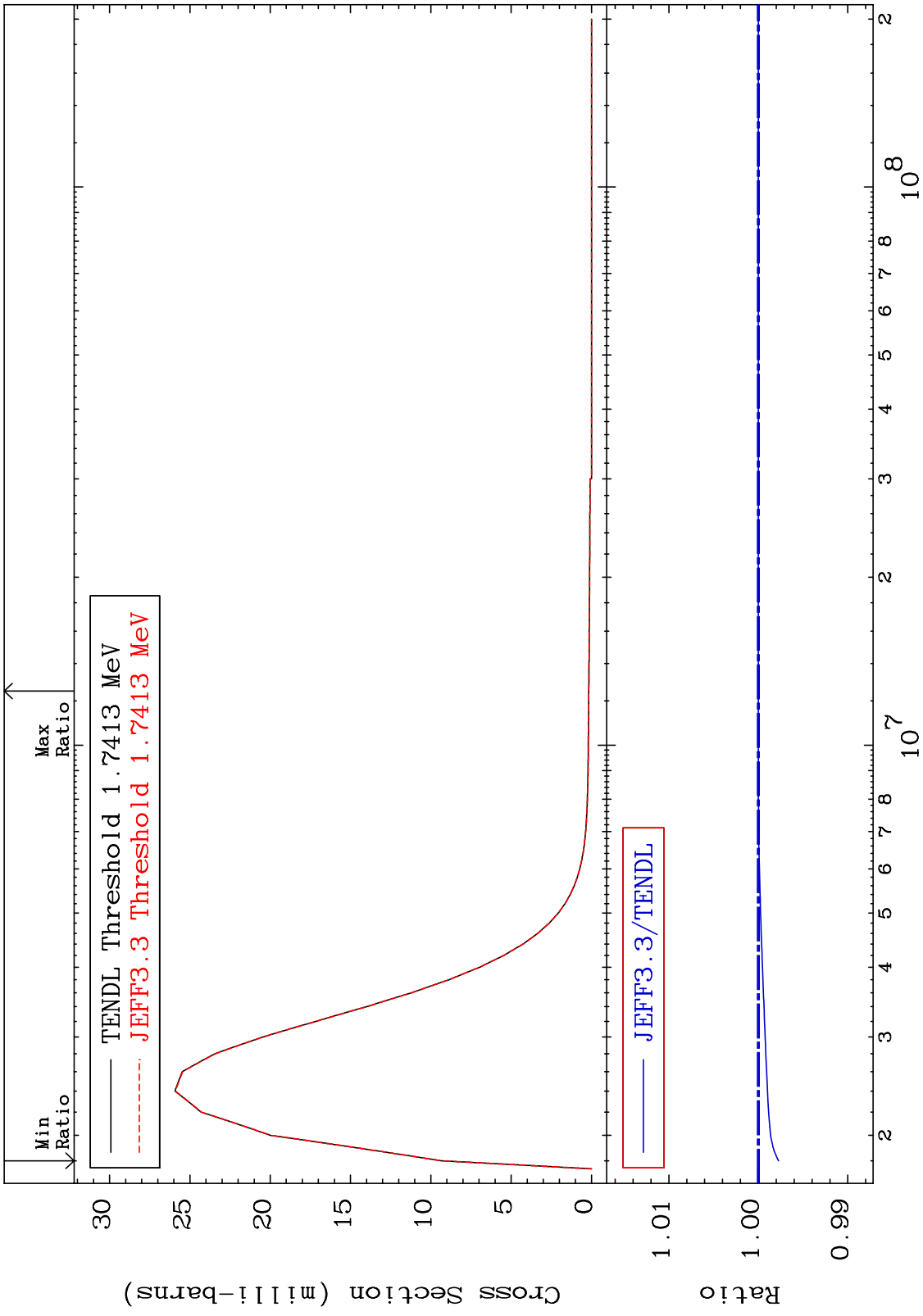
MAT 5722 MT= 69 (n,n') Level Cross Section 57-La-137 -0.075 To 0.000 %



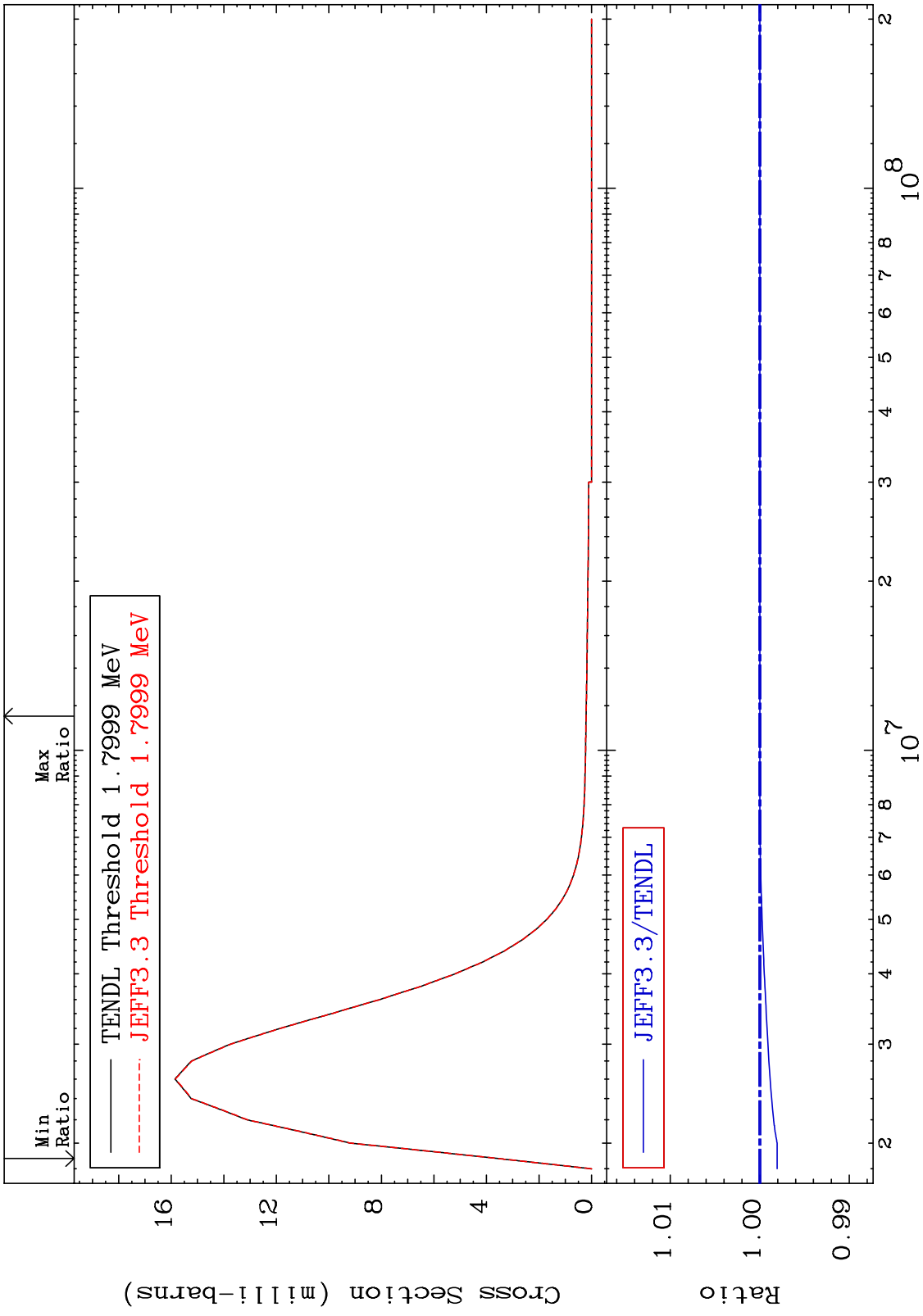
MAT 5722 MT= 70 (n,n') Level Cross Section 57-La-137 -0.127 To 0.000 %



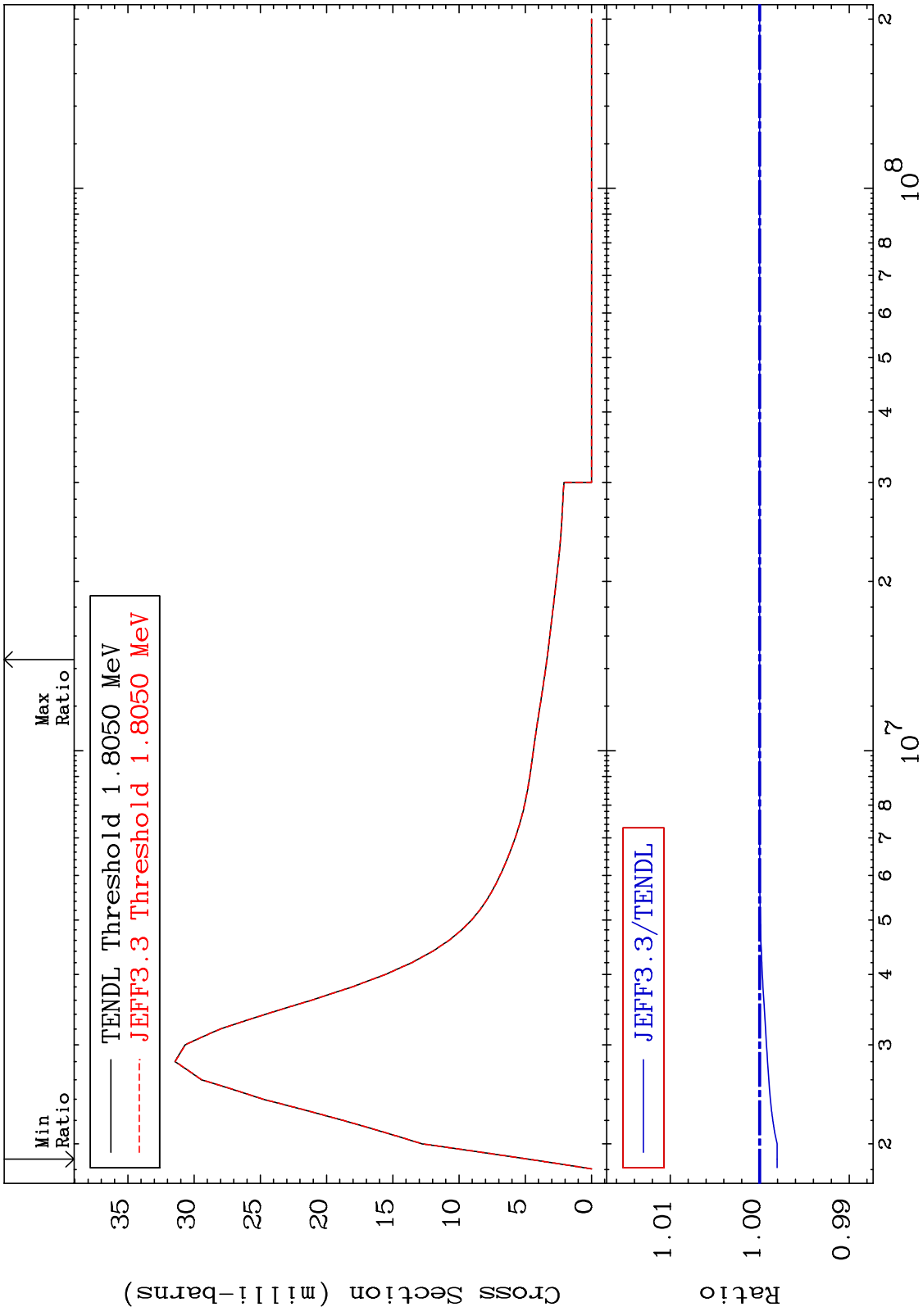
MAT 5722 MT= 71 (n,n') Level Cross Section 57-La-137 -0.226 To 0.000 %



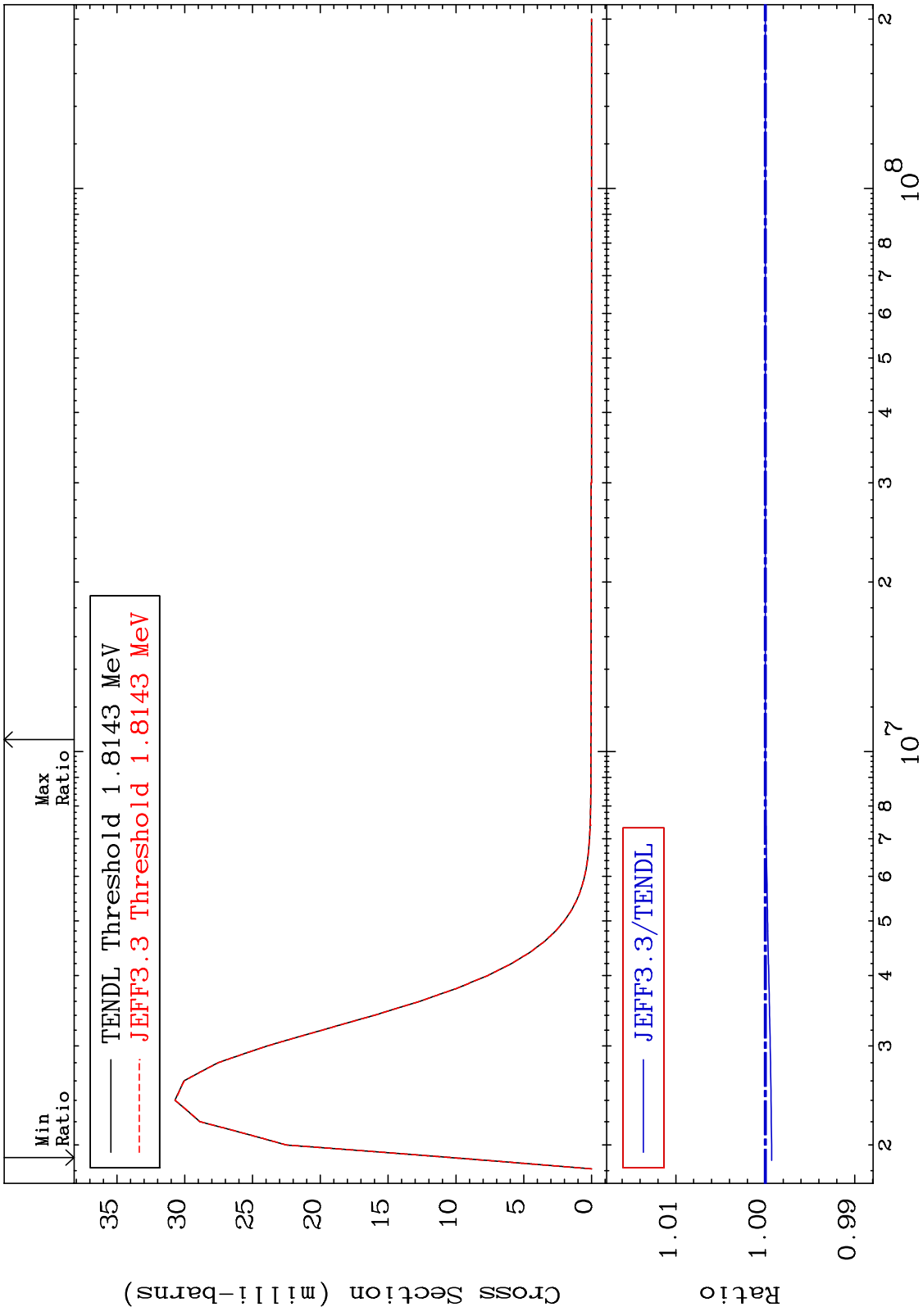
MAT 5722 MT= 72 (n,n') Level Cross Section 57-La-137 -0.193 To 0.000 %



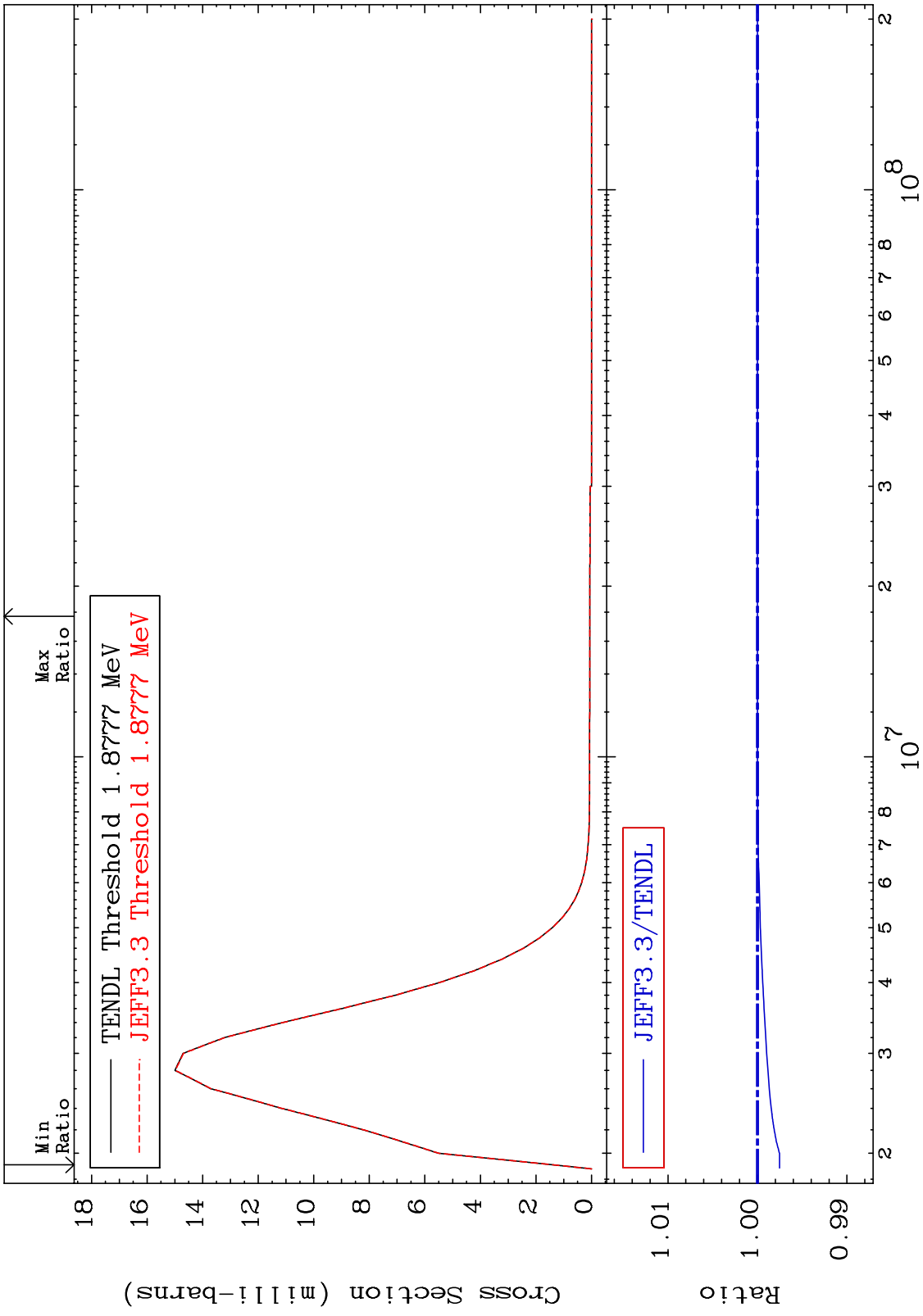
MAT 5722 MT= 73 (n,n') Level Cross Section 57-La-137 -0.196 To 0.000 %



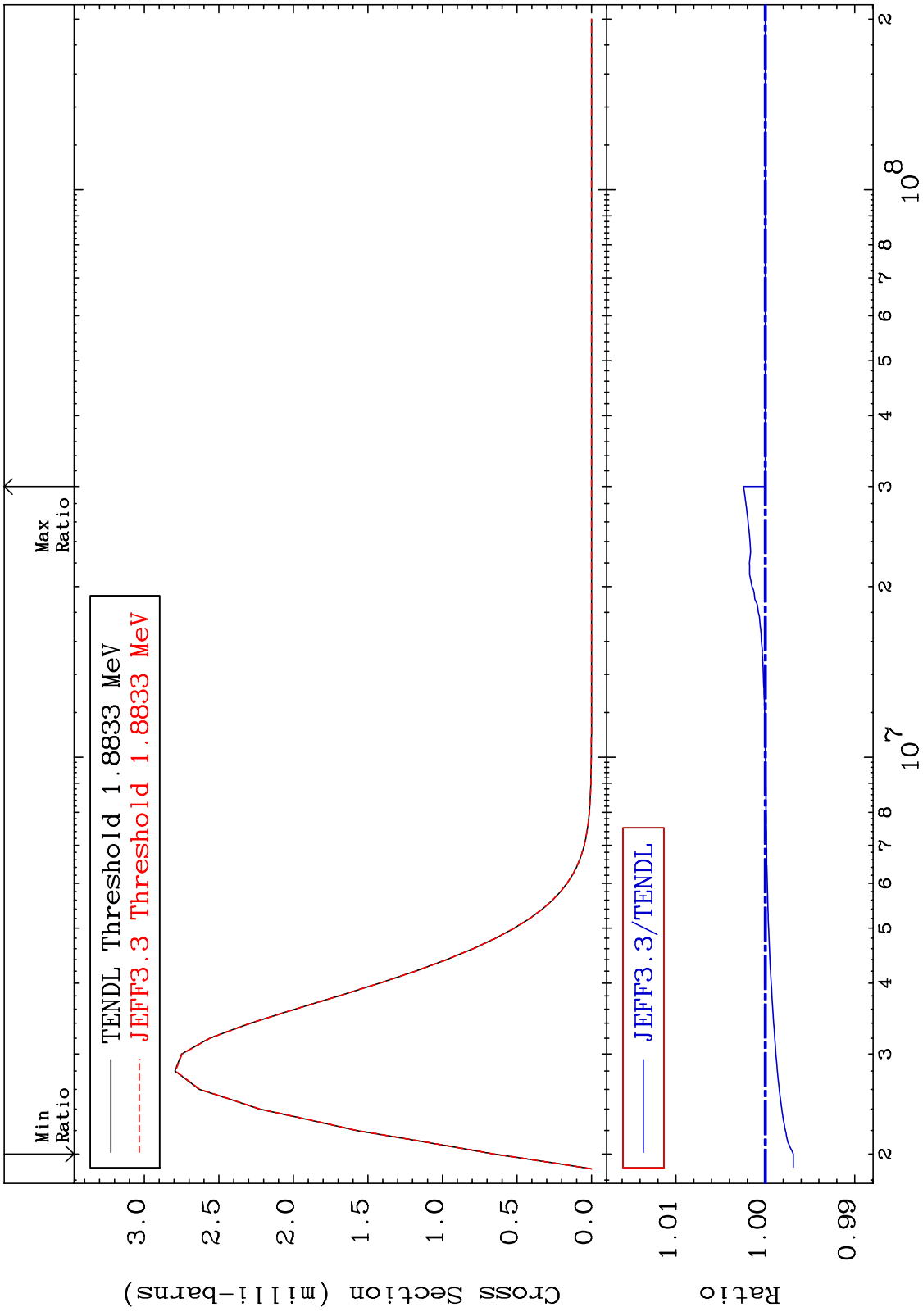
MAT 5722 MT= 74 (n,n') Level Cross Section 57-La-137 -0.071 To 0.000 %



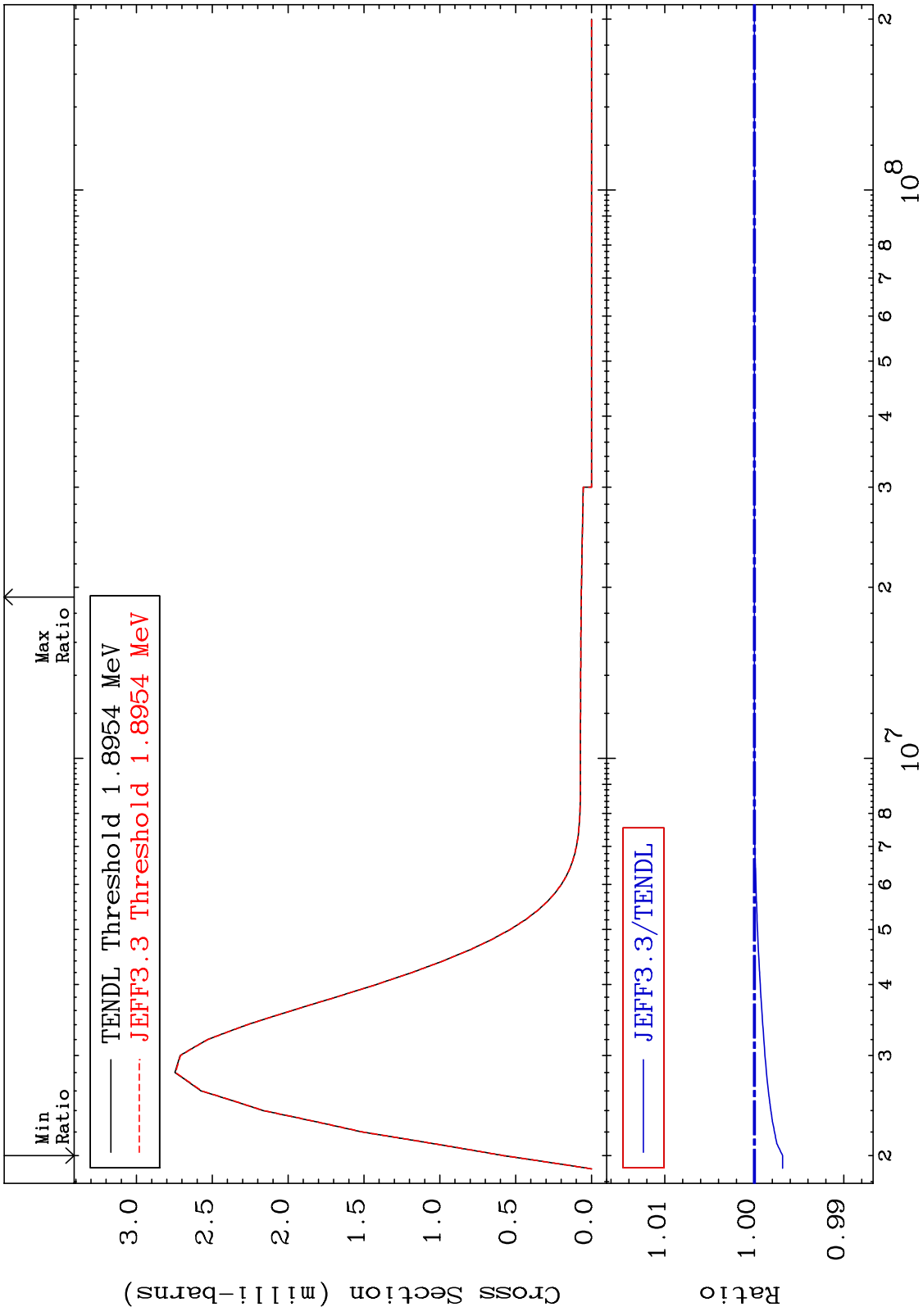
MAT 5722 MT= 75 (n,n') Level Cross Section 57-La-137 -0.246 To 0.000 %



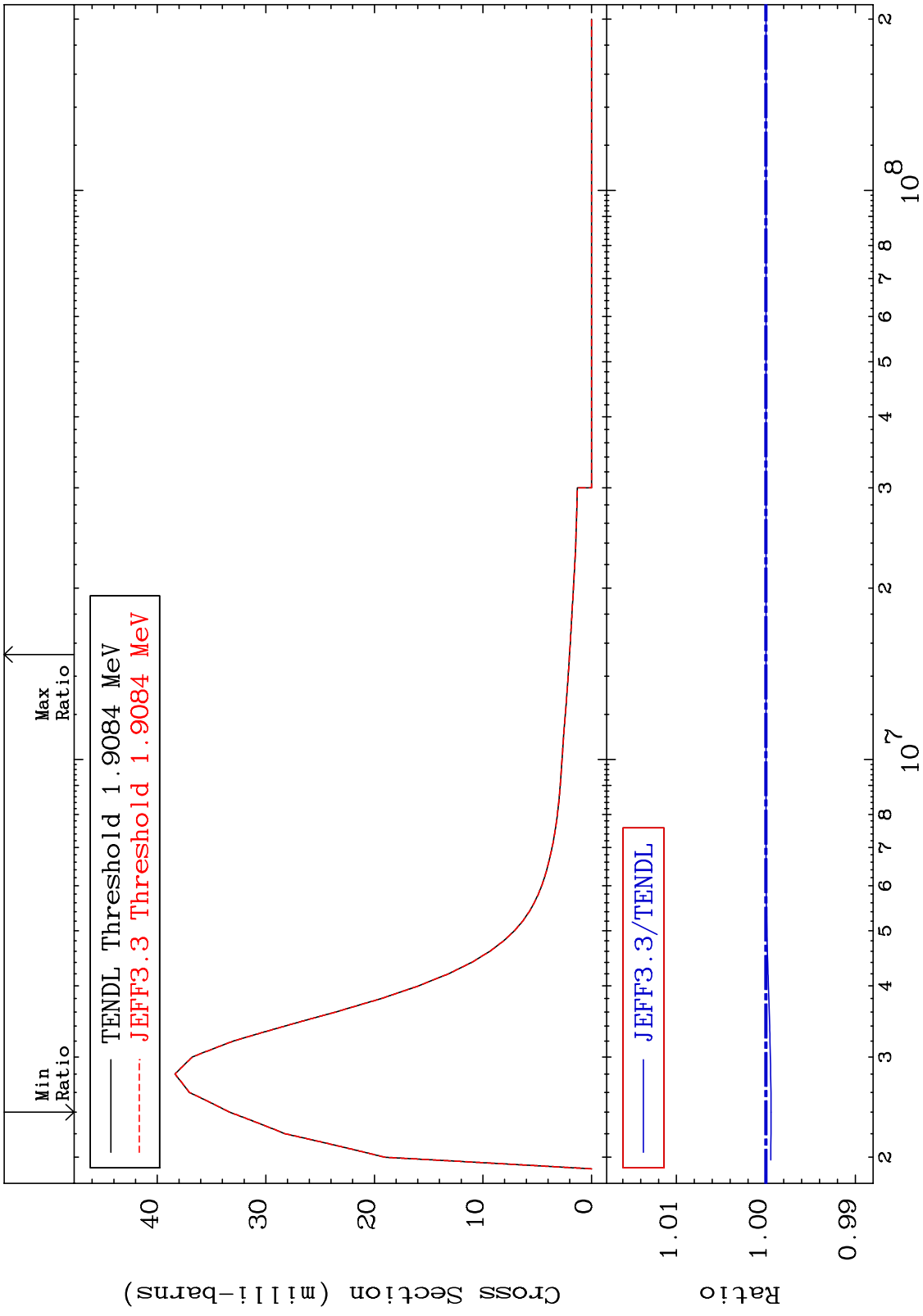
MAT 5722 MT= 76 (n,n') Level Cross Section 57-La-137 -0.313 To 0.242 %



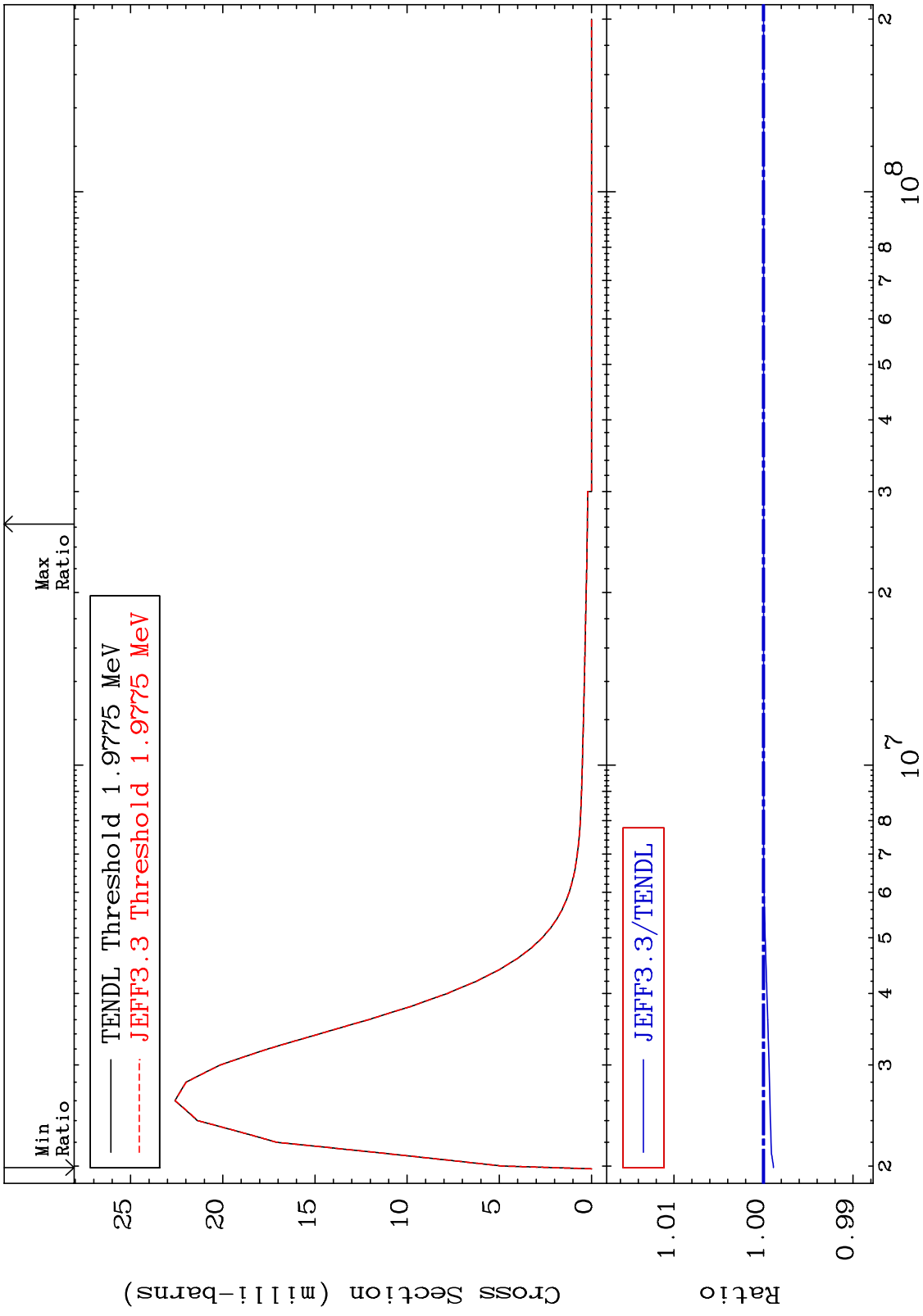
MAT 5722 MT= 77 (n,n') Level Cross Section 57-La-137 -0.315 To 0.000 %



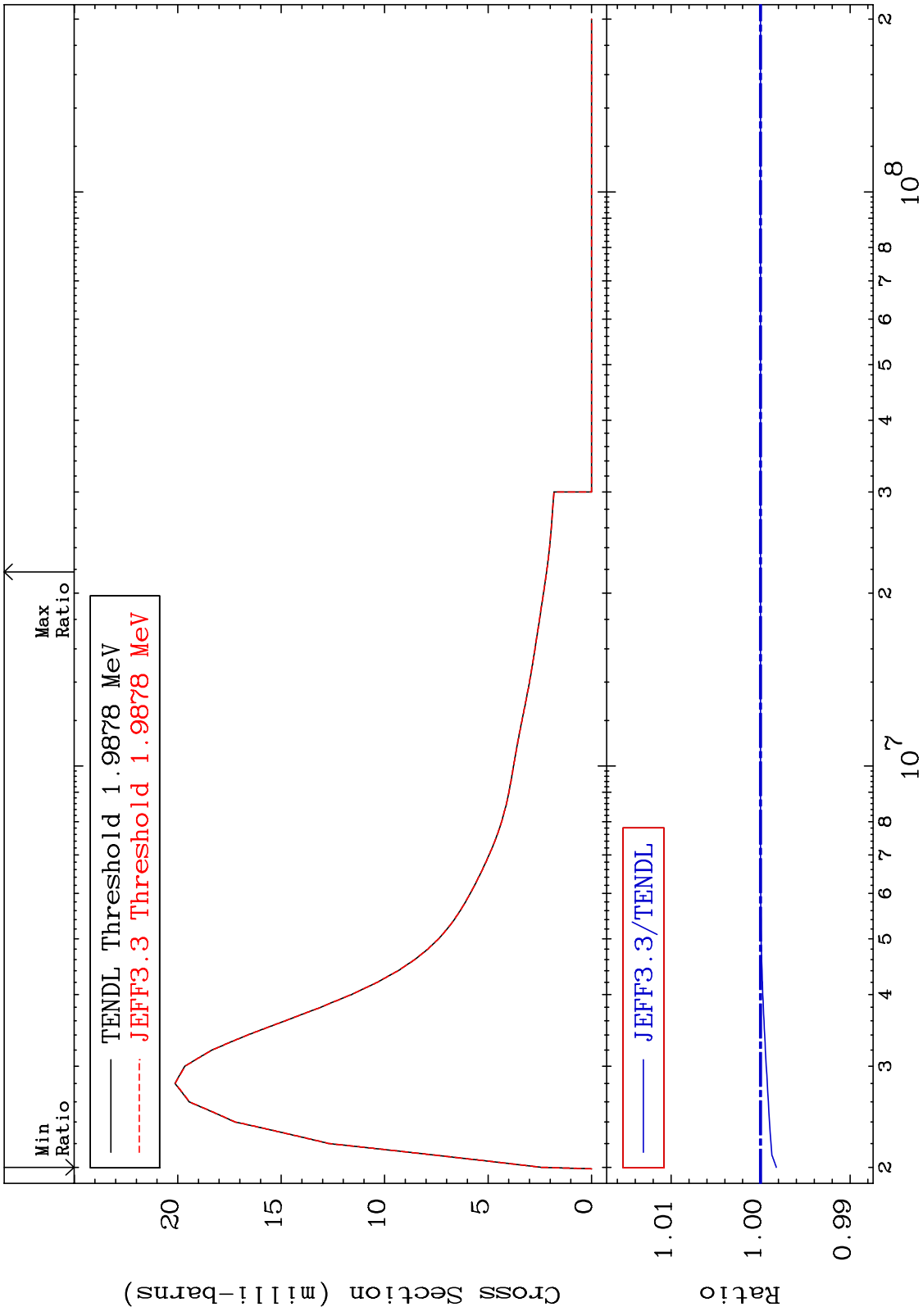
MAT 5722 MT= 78 (n,n') Level Cross Section 57-La-137 -0.057 To 0.000 %



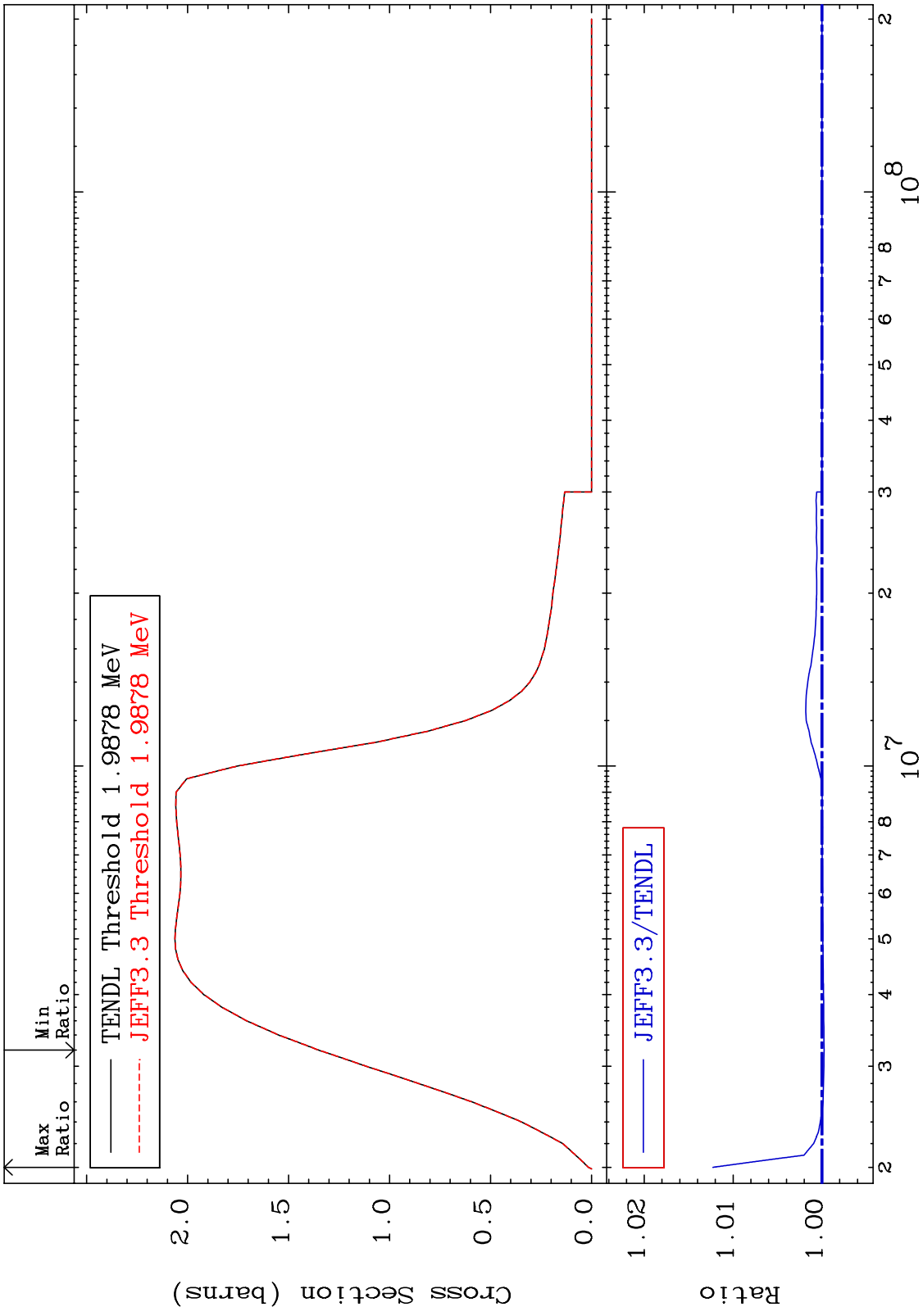
MAT 5722 MT= 79 (n, n') Level Cross Section 57-La-137 -0.111 To 0.000 %



MAT 5722 MT= 80 (n,n') Level Cross Section 57-La-137 -0.176 To 0.000 %



MAT 5722 (n,n') Continuum Cross Section 57-La-137 -0.024 To 1.229 %



MAT 5722

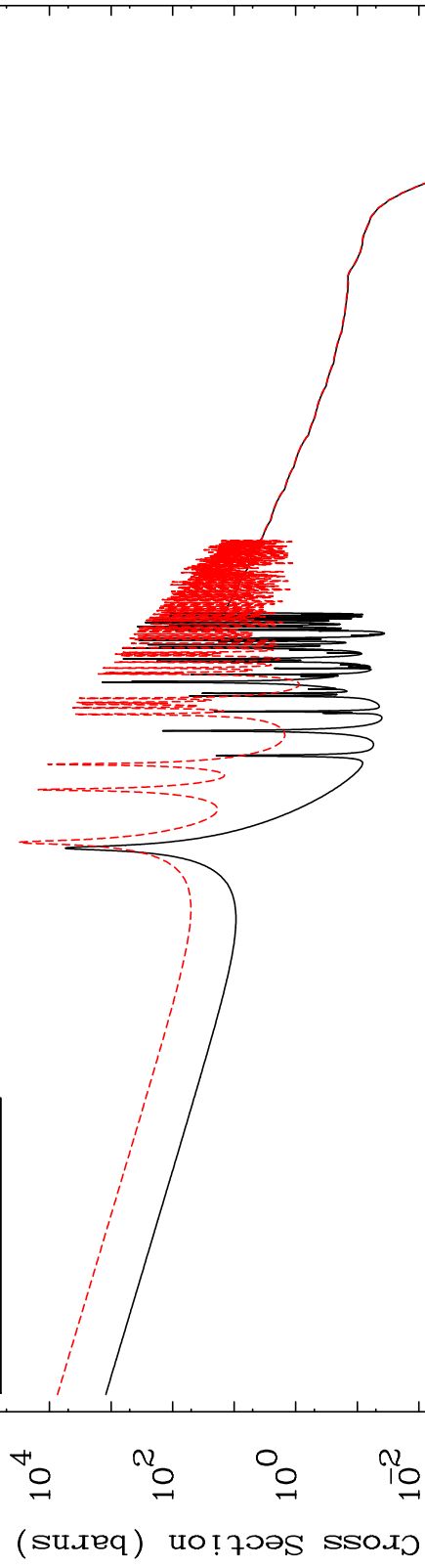
57-La-137

-99.93 To 9999. %

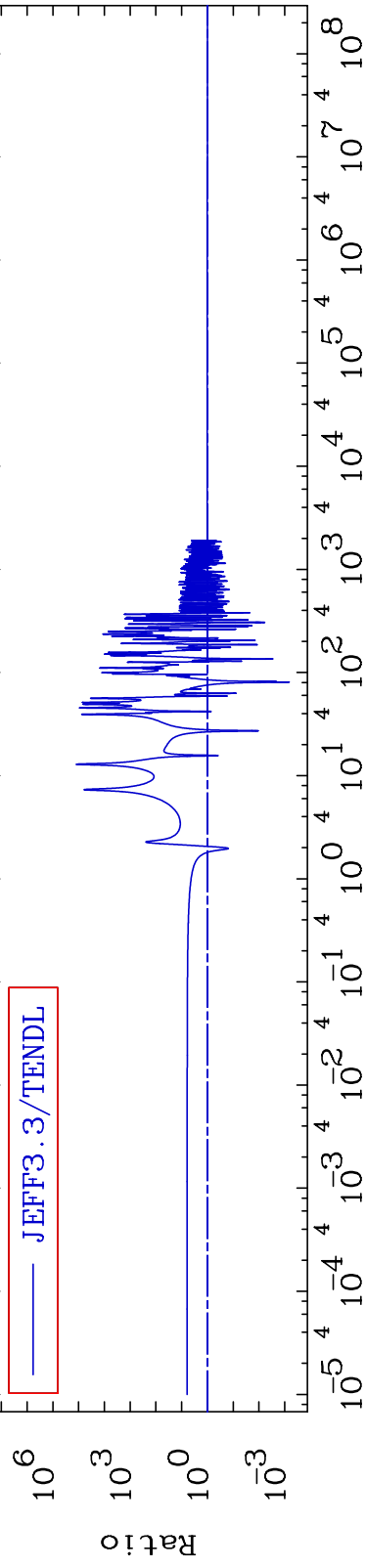
(n, γ)
Cross Section

Max Ratio
Min Ratio

— TENDL
- - - JEFF3.3

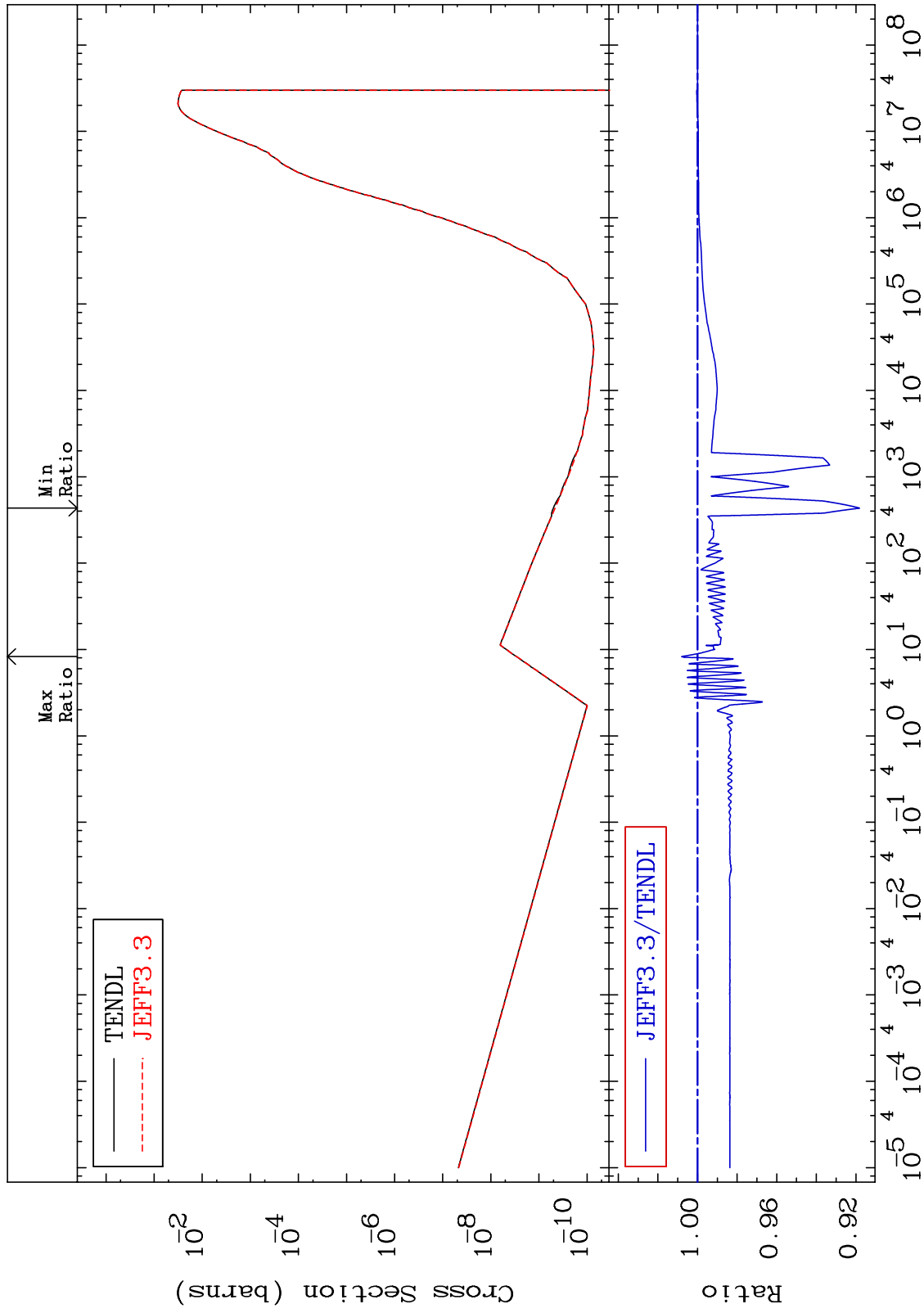


— JEFF3.3/TENDL

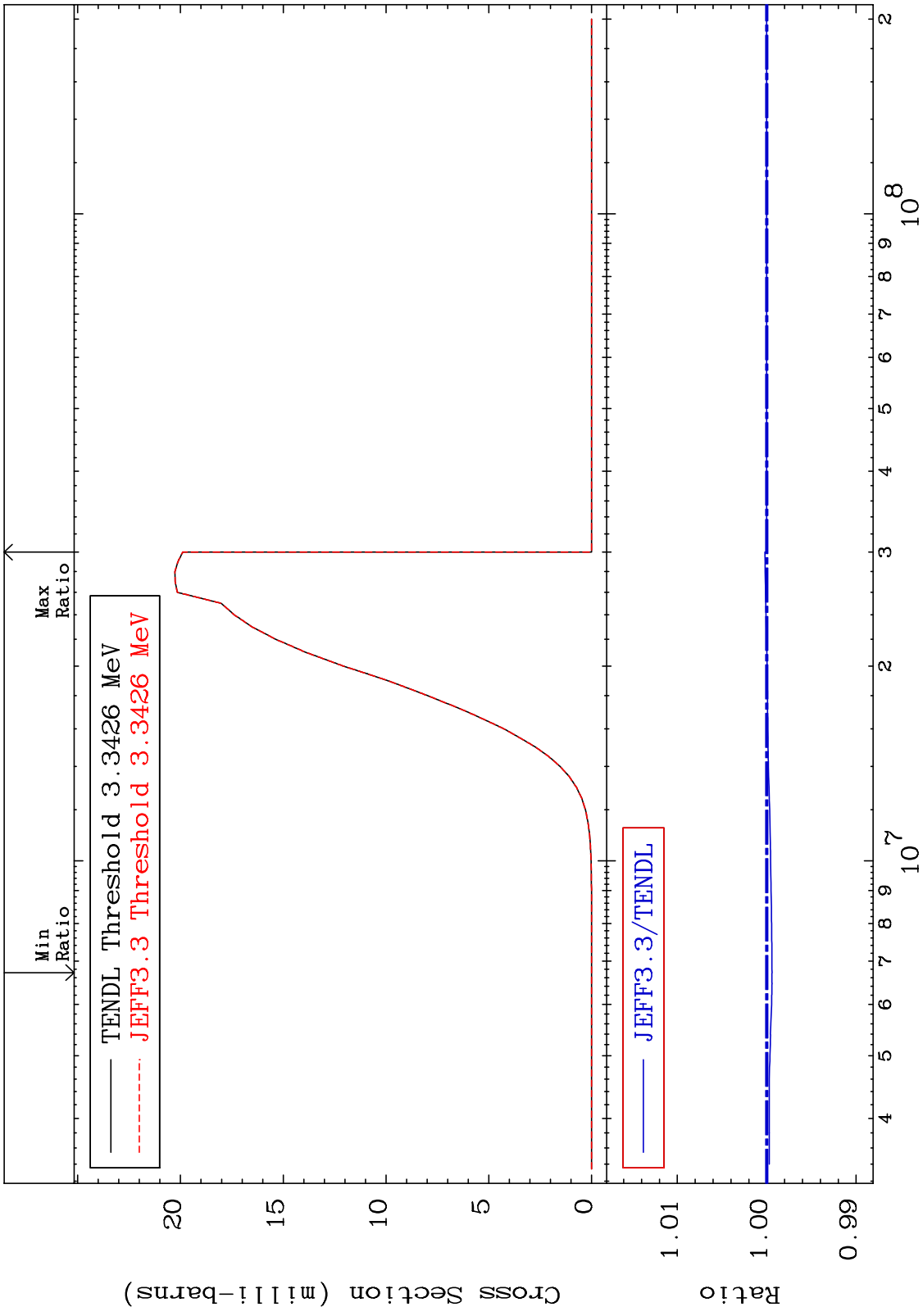


MAT 5722

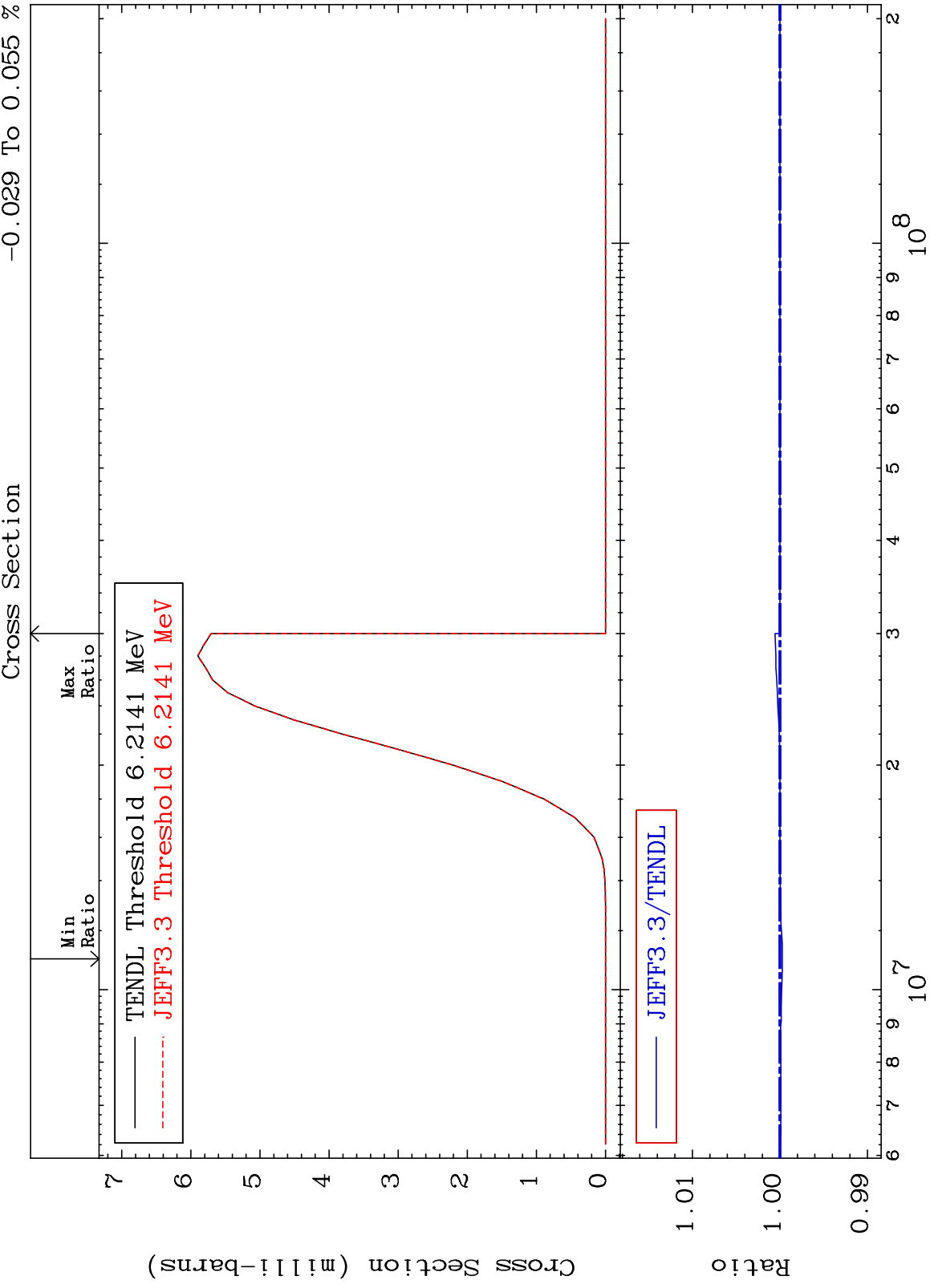
(n,p) Cross Section
57-La-137
-8.195 To 0.822 %



MAT 5722 (n,d) Cross Section 57-La-137 -0.059 To 0.021 %



MAT 5722 (n,t) 57-La-137 -0.029 To 0.055 %



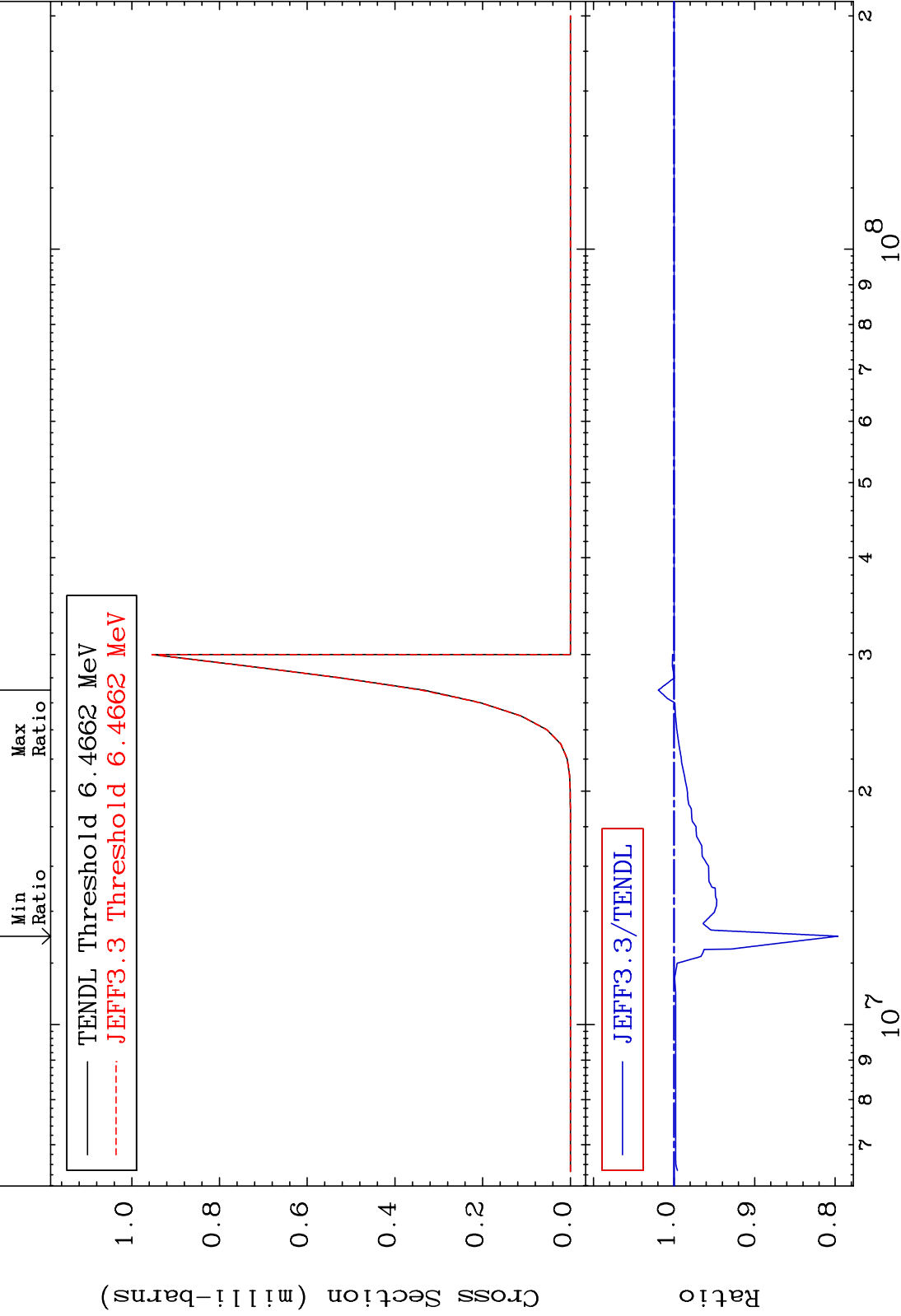
MAT 5722

(n, He-3)

57-La-137

-20.35 To 1.947 %

Cross Section



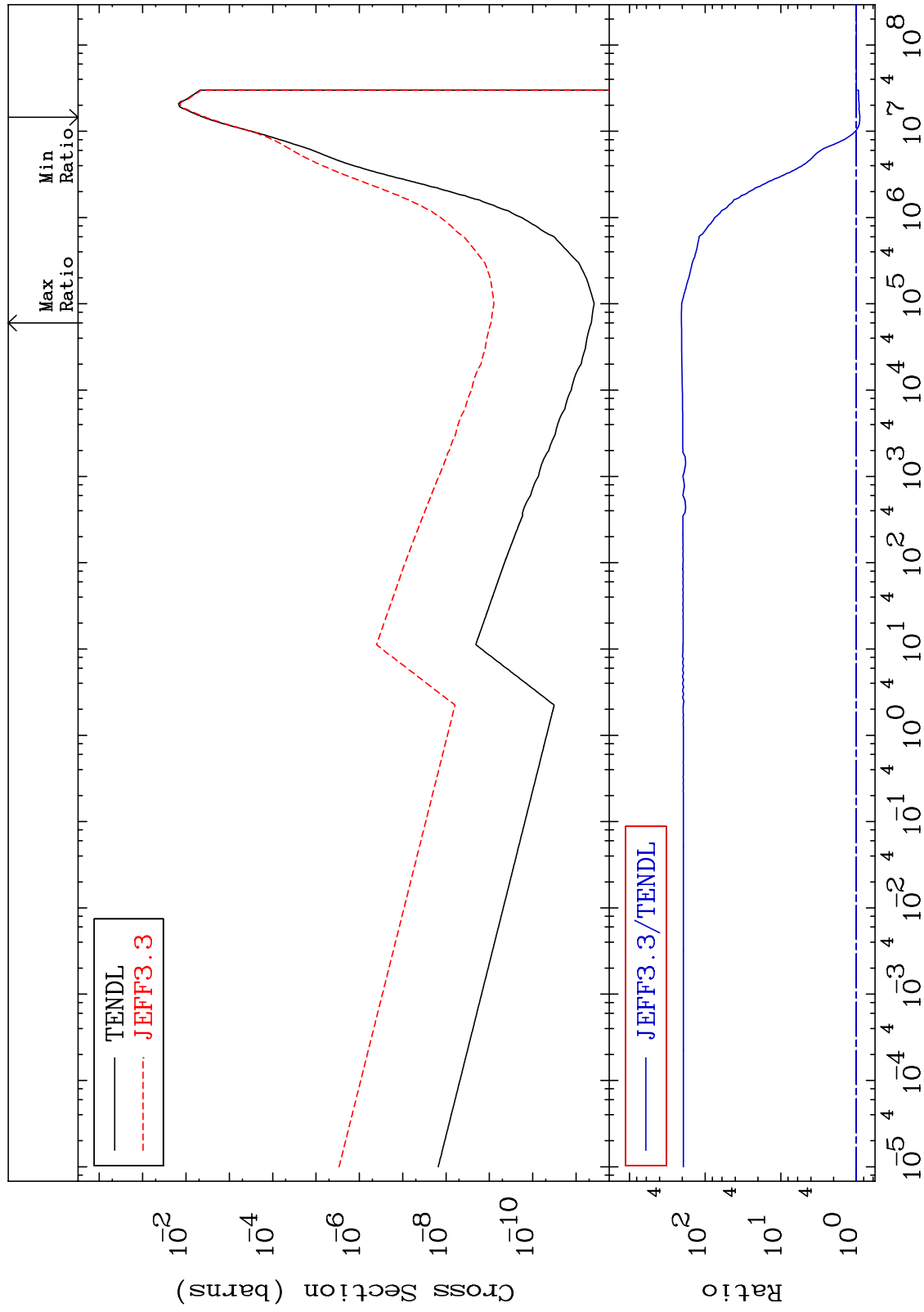
MAT 5722

(n, α)

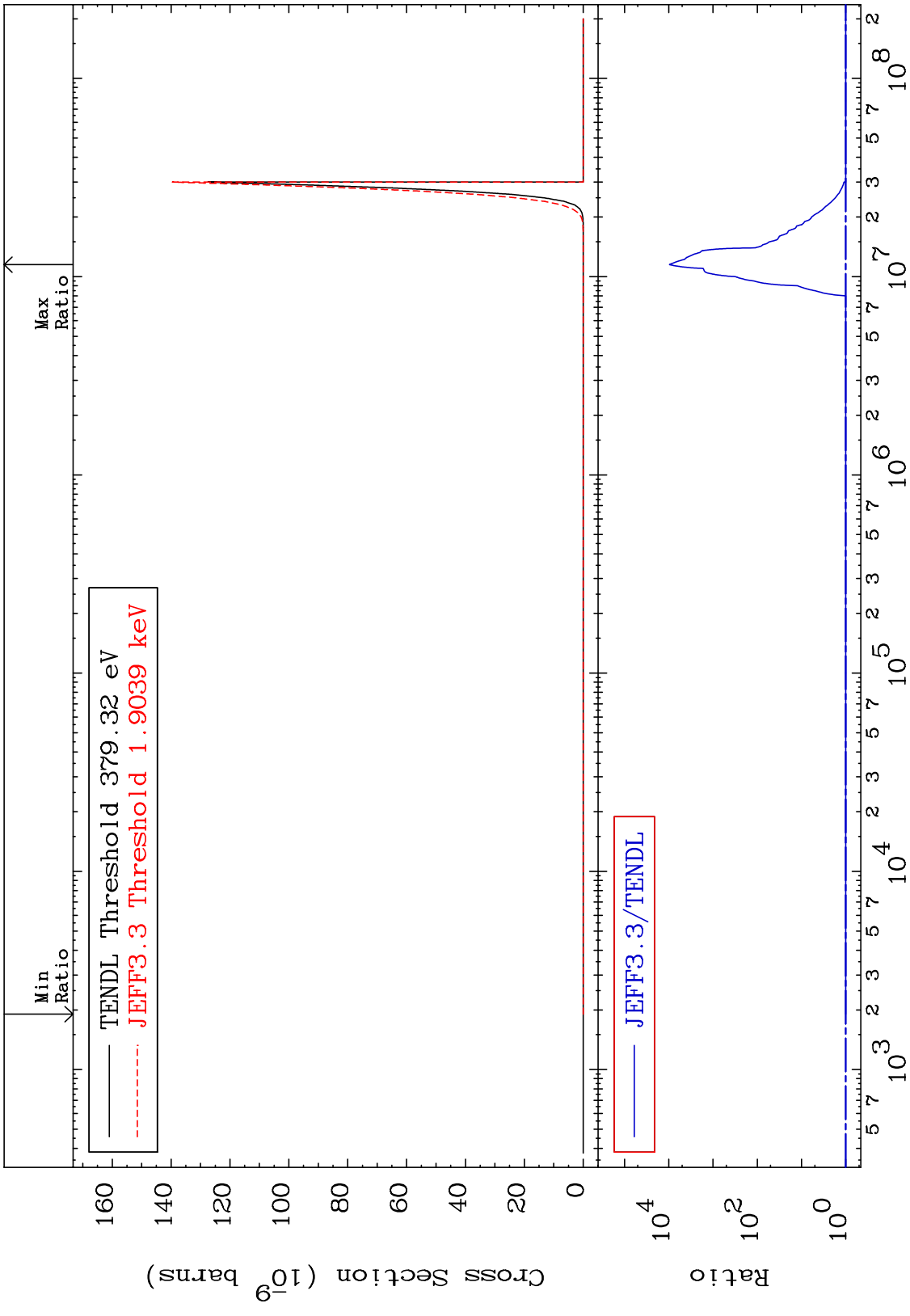
57-La-137

Cross Section

-9.930 To 9999. %



MAT 5722 (n,2α) Cross Section 57-La-137 To 9999. %



MAT 5722

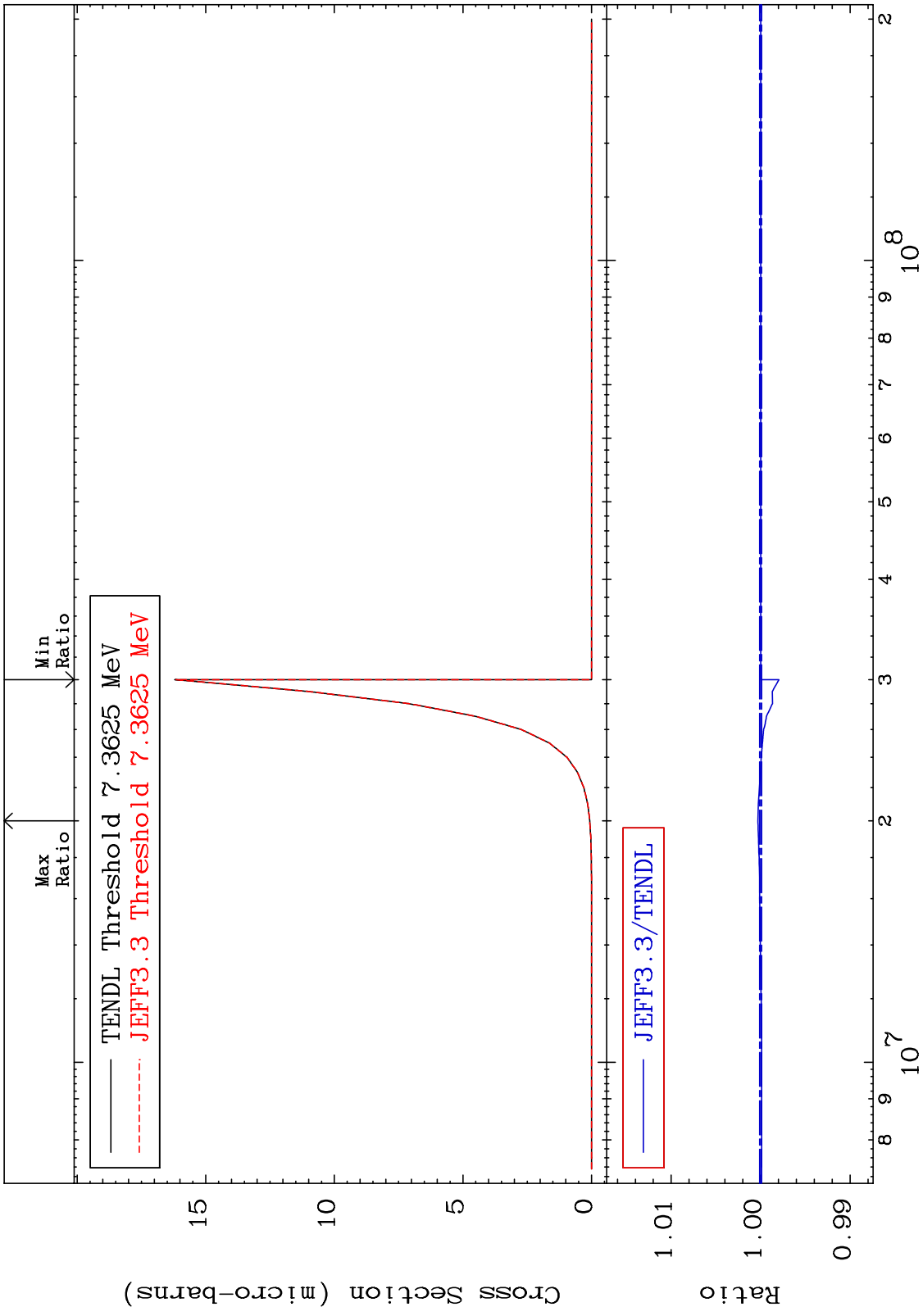
(n,2p)

57-La-137

Cross Section

Cross Section

-0.204 To 0.030 %



57-La-137

Incident Energy (eV)

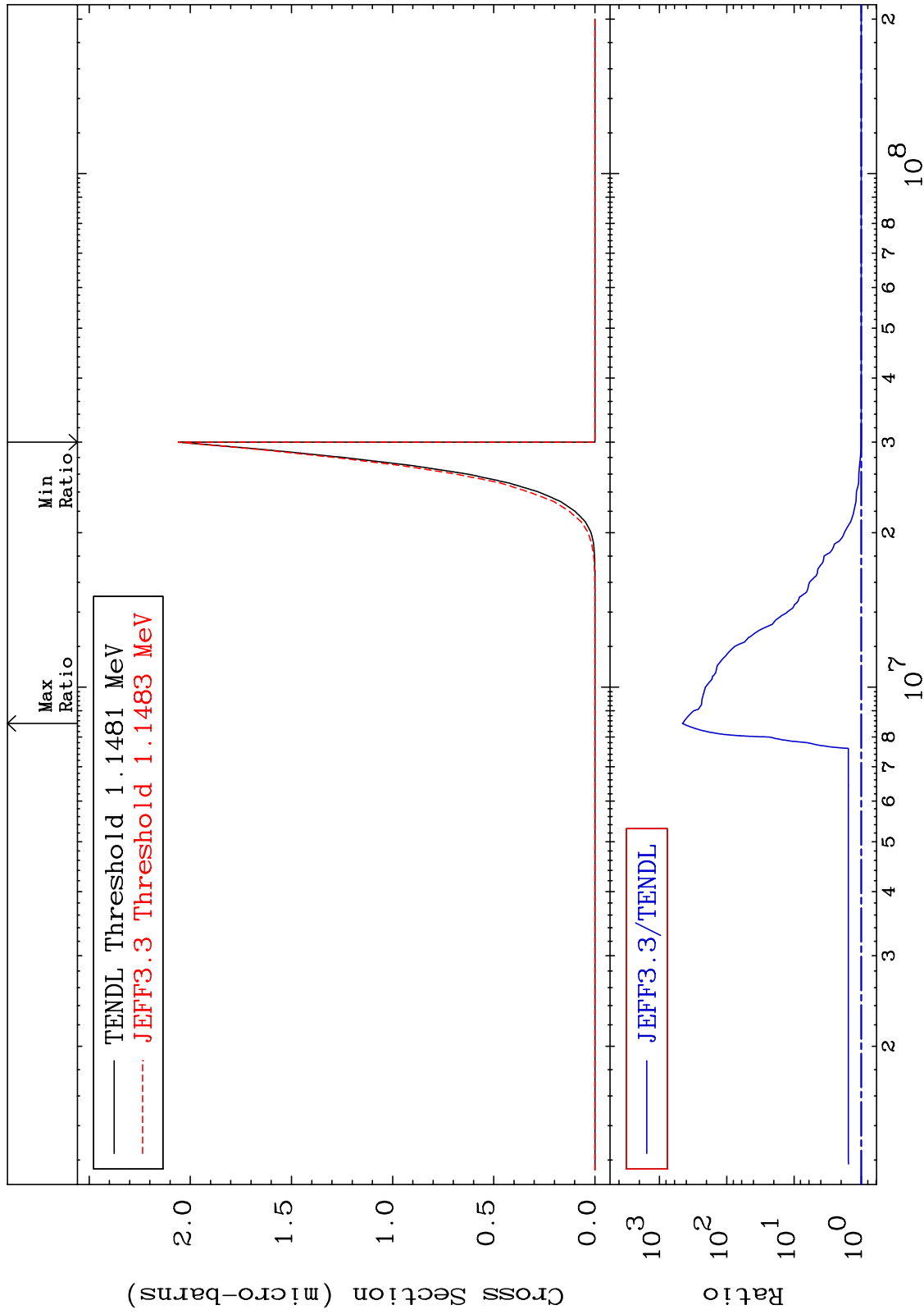
58

MAT 5722

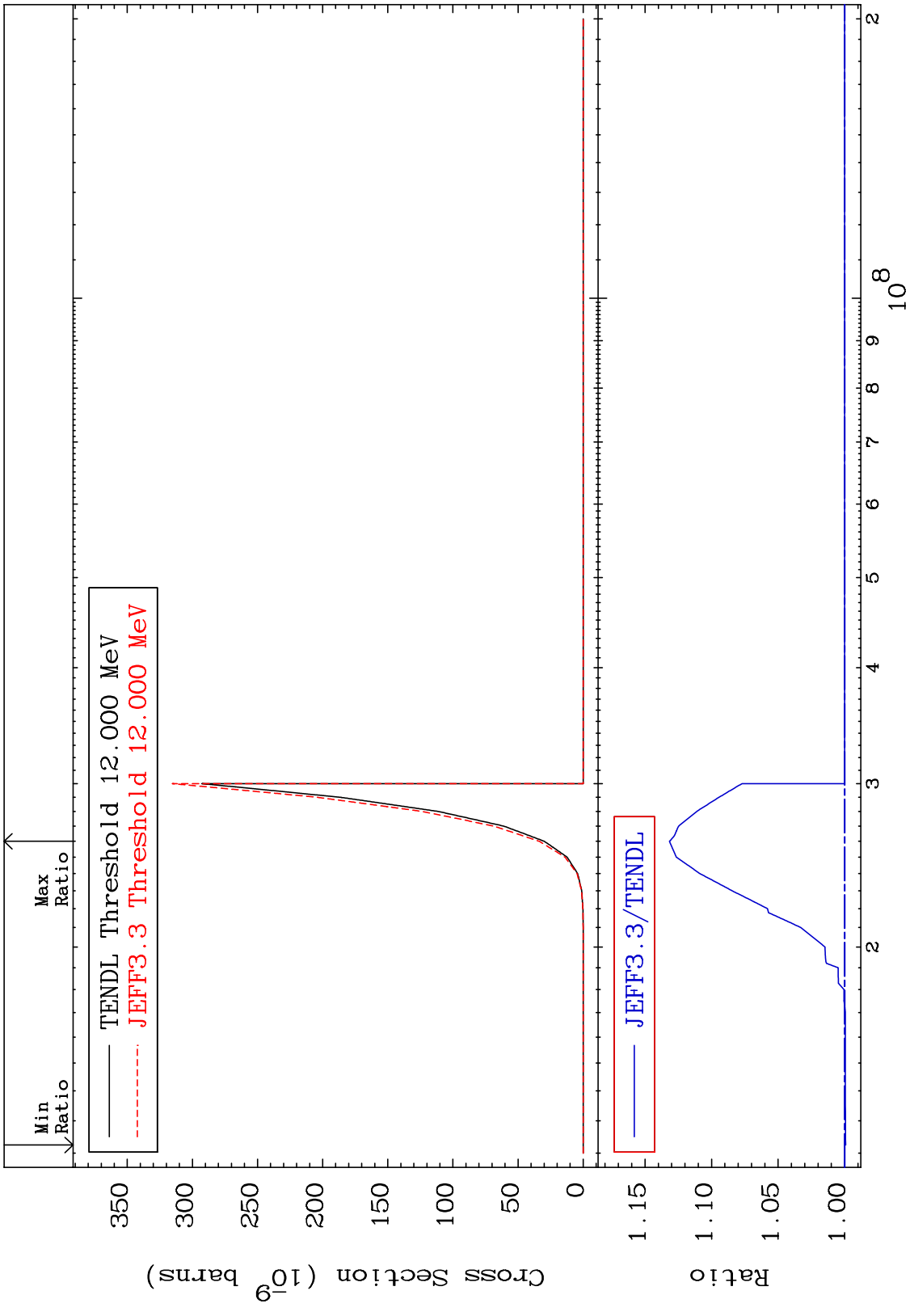
(n,p) α

57-La-137

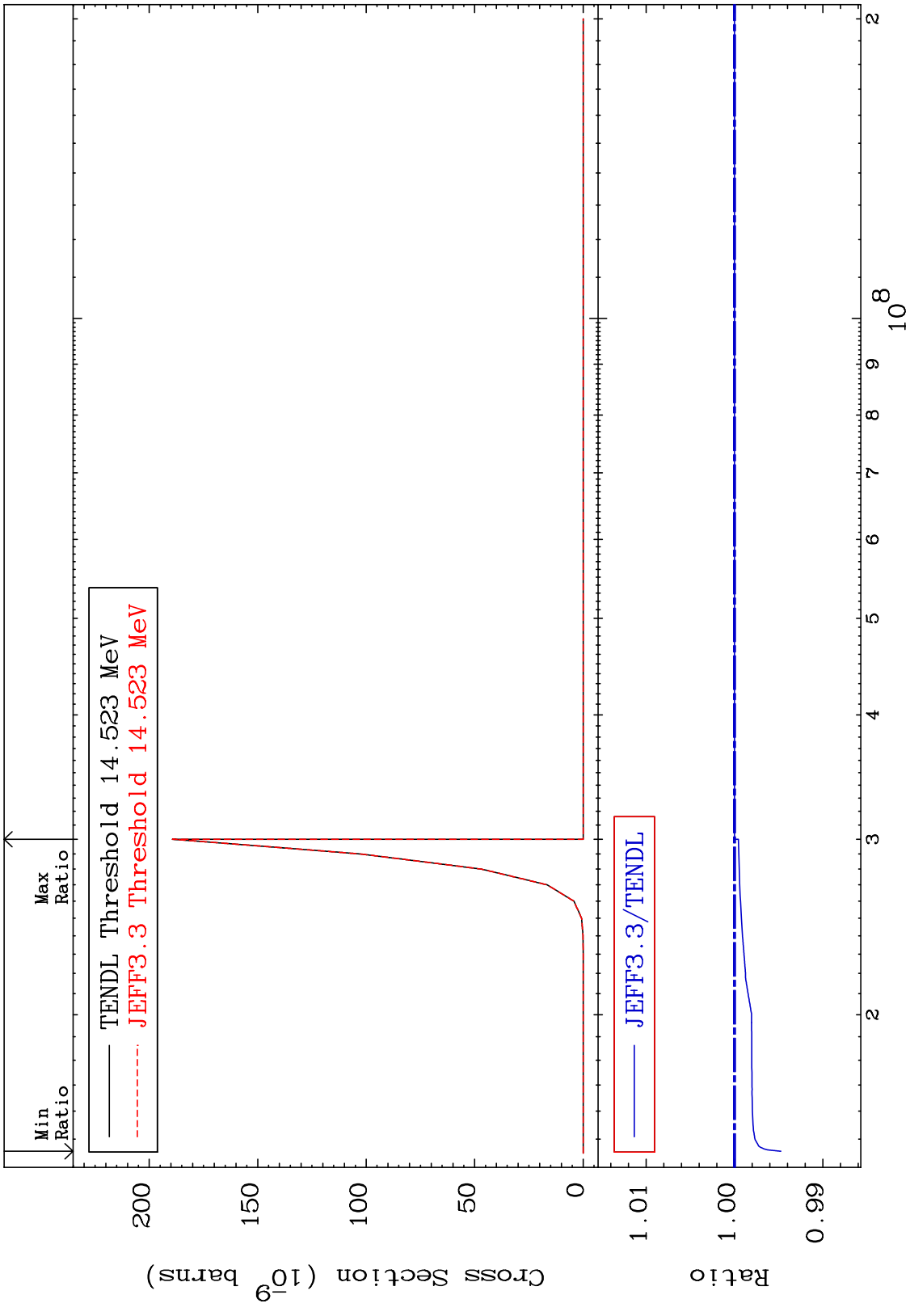
0.000 To 9999. %



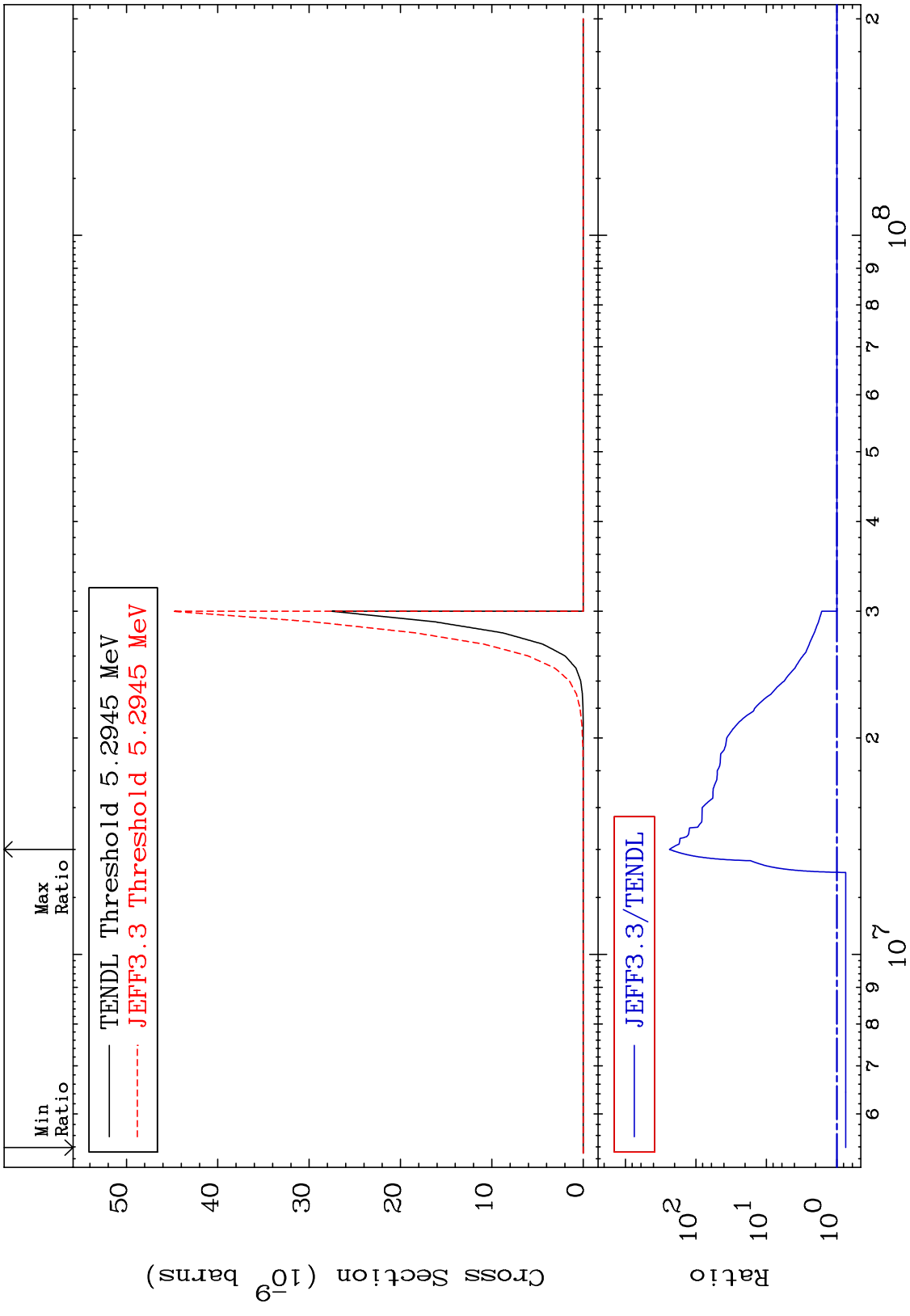
MAT 5722 (n,p) d 57-La-137
 Cross Section -0.081 To 13.16 %



MAT 5722 (n,p) t 57-La-137
 Cross Section -0.523 To 0.000 %



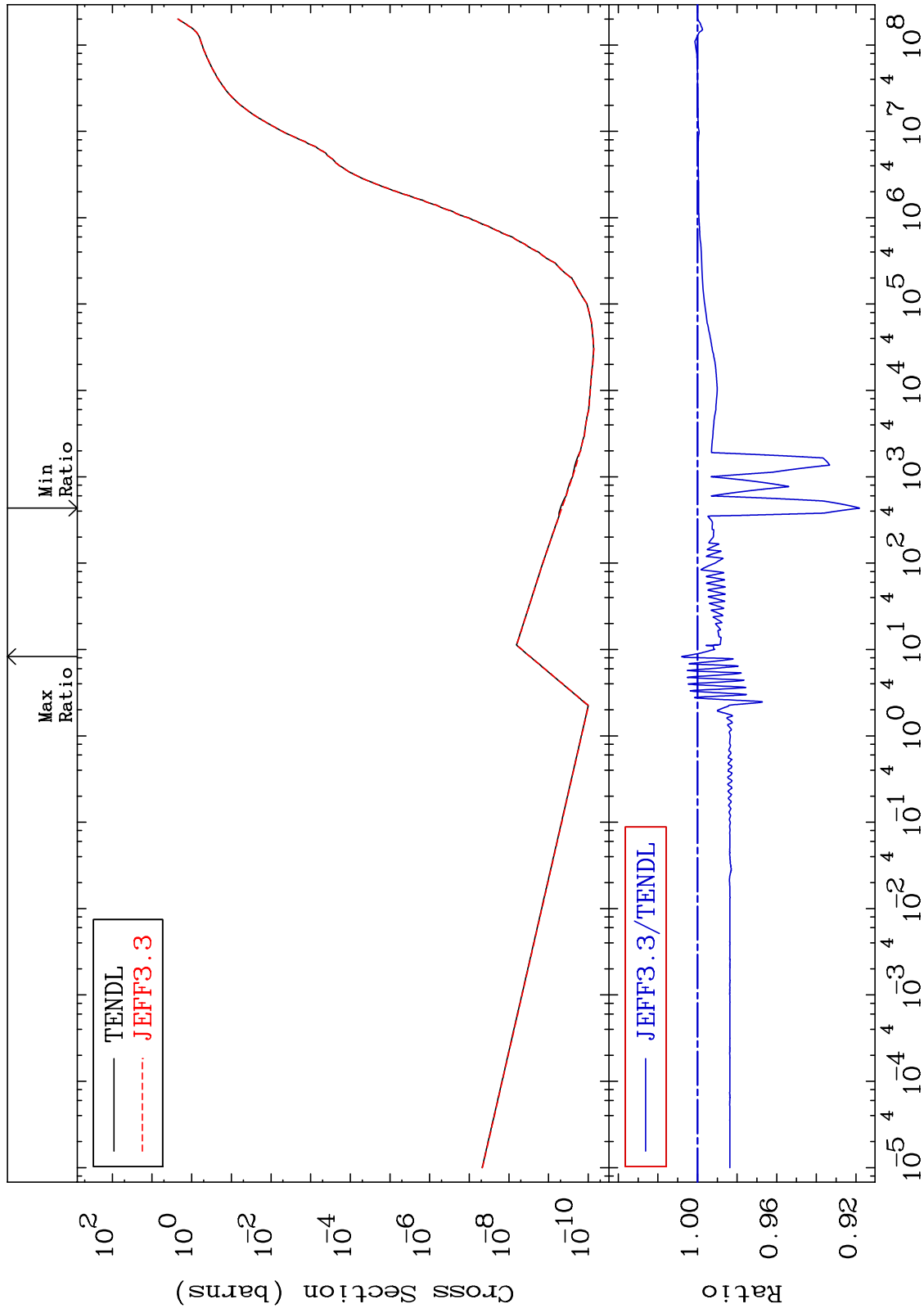
MAT 5722 (n,d) α 57-La-137
Cross Section -25.34 To 9999. %



MAT 5722

Hydrogen Production
Cross Section

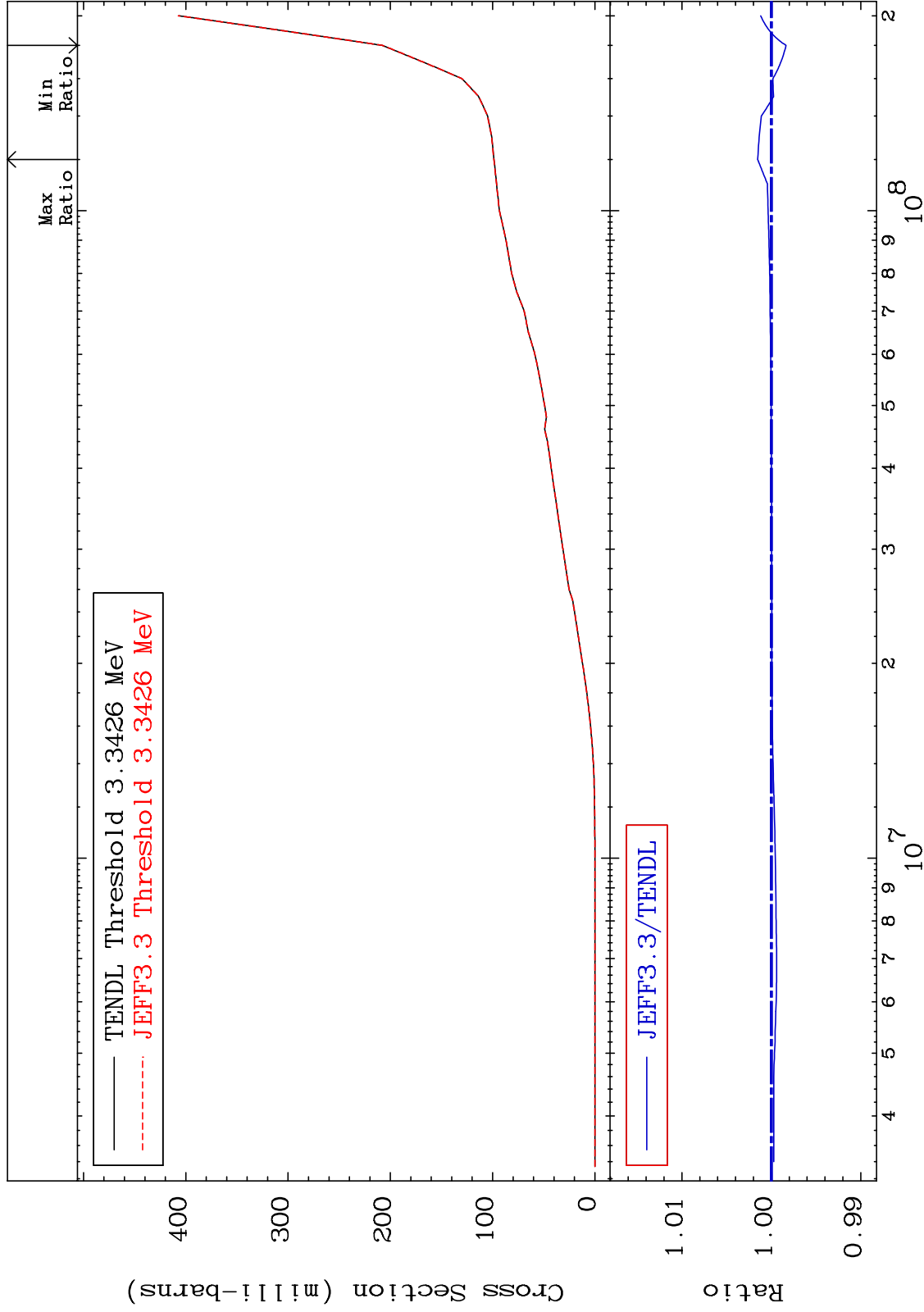
57-La-137
-8.195 To 0.822 %



MAT 5722

Deuterium Production
Cross Section

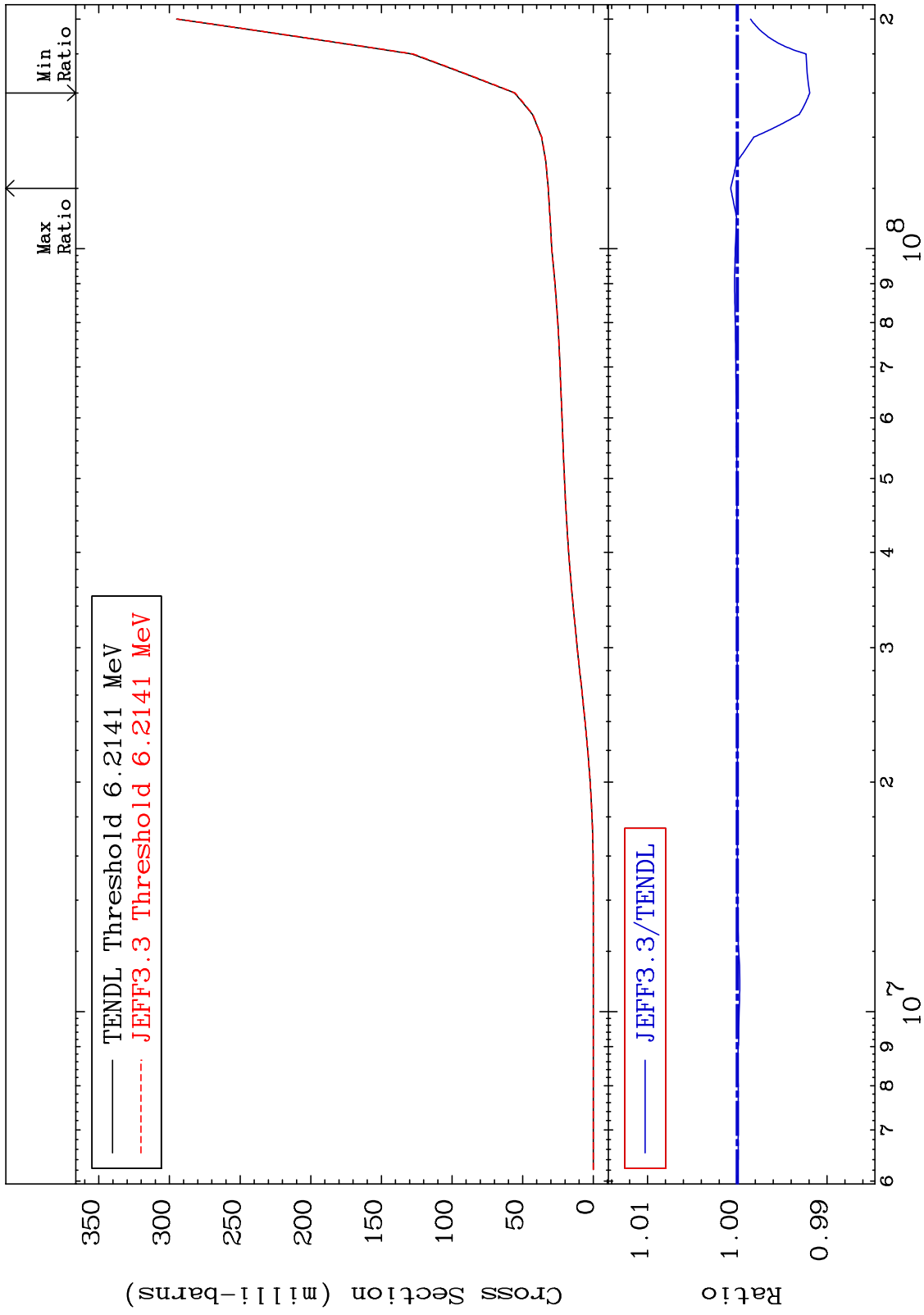
57-La-137
-0.165 To 0.153 %



MAT 5722

Tritium Production
Cross Section

57-La-137
-0.808 To 0.073 %



65

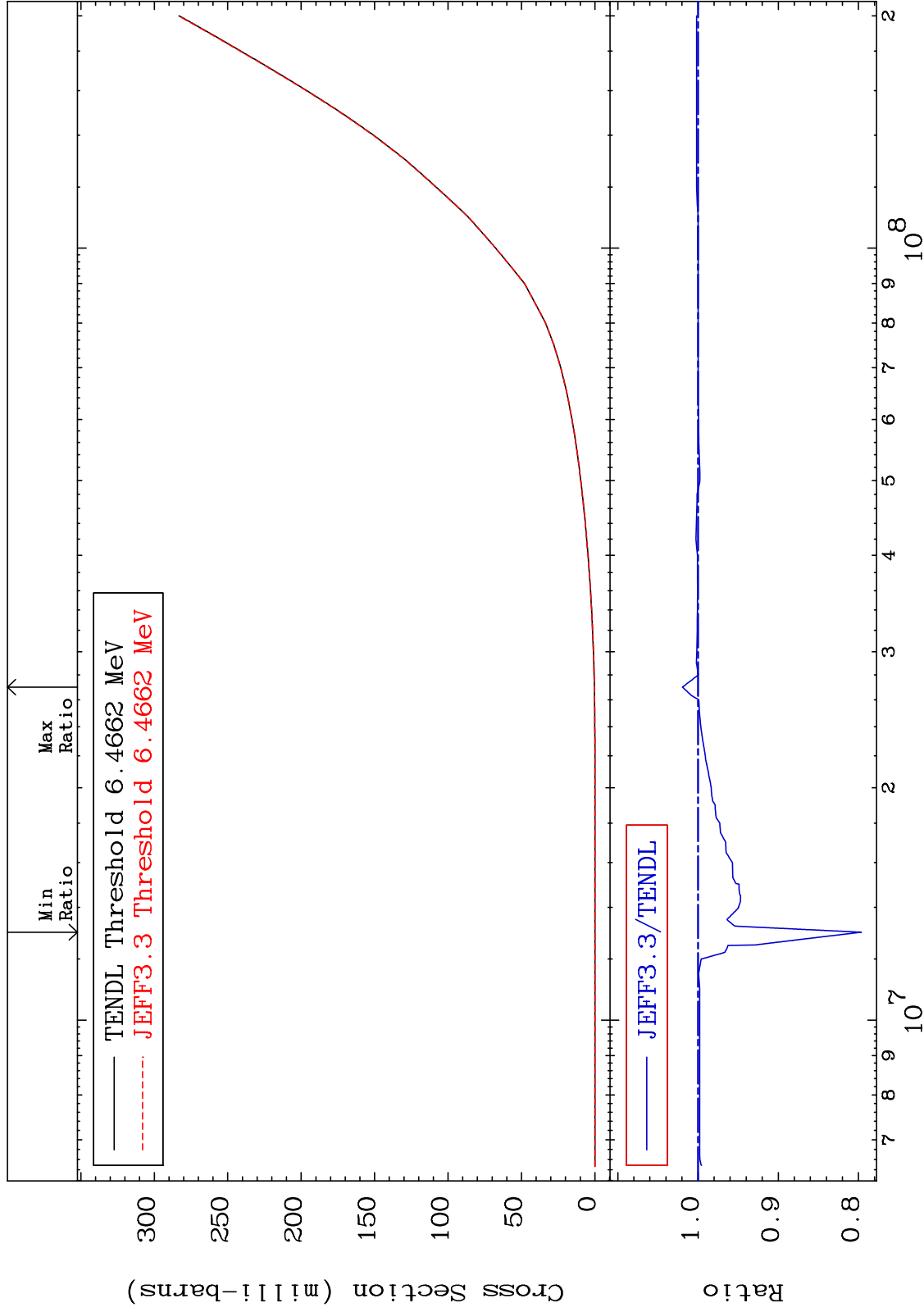
Incident Energy (eV)

57-La-137

MAT 5722

He-3 Production
Cross Section

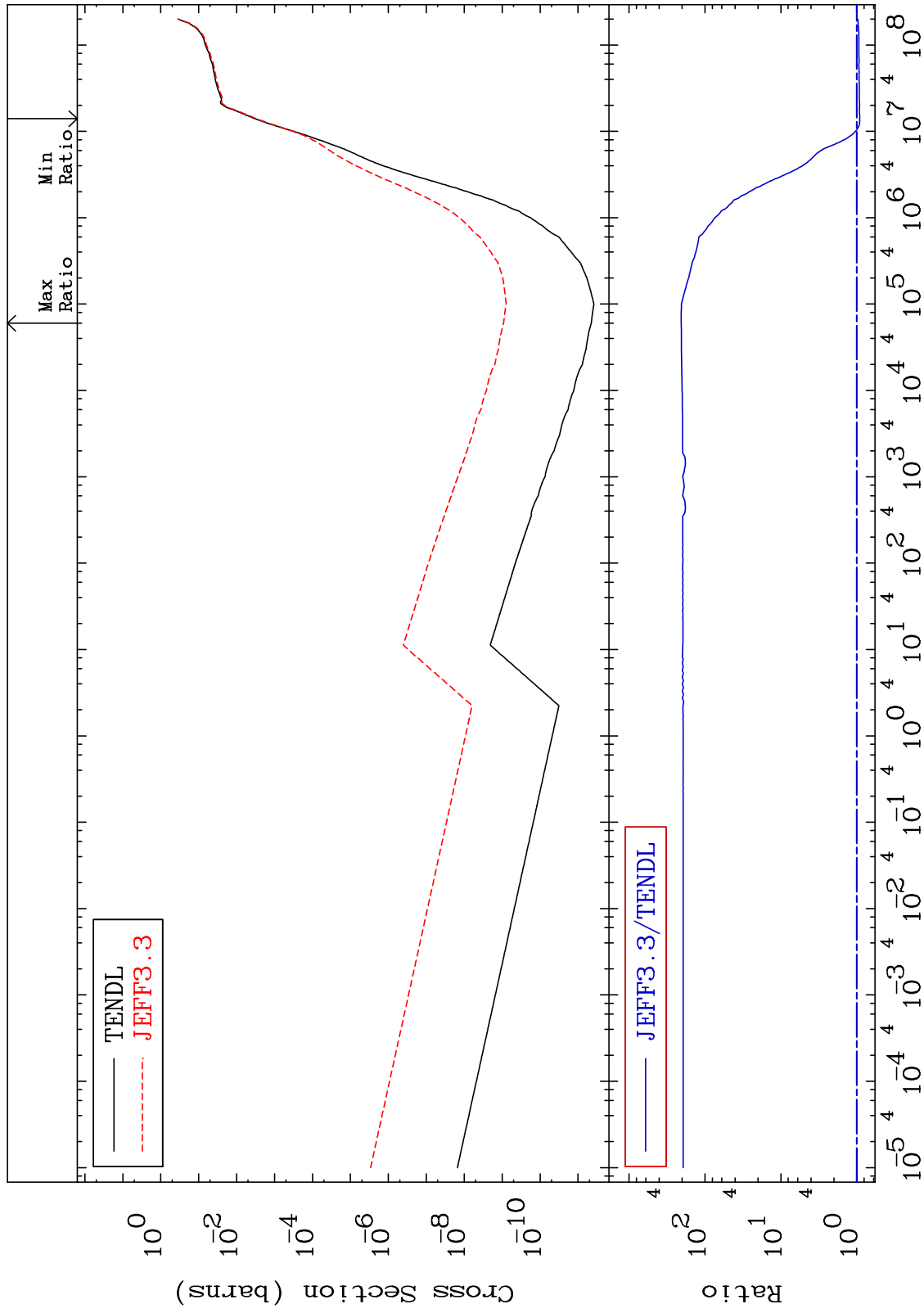
57-La-137
-20.35 To 1.943 %



MAT 5722

He-4 Production
Cross Section

57-La-137
-8.712 To 9999. %



67

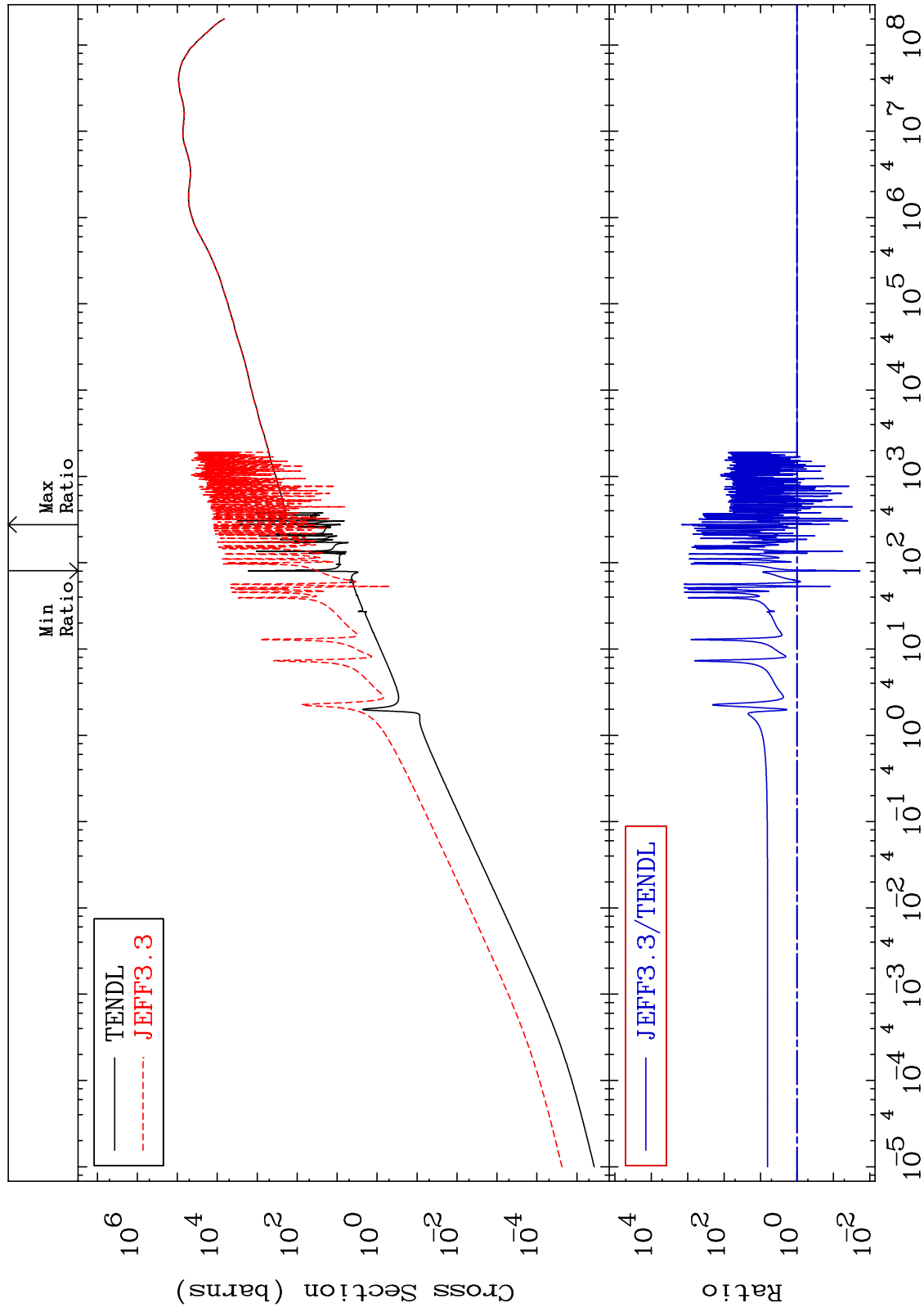
Incident Energy (eV)

57-La-137

MAT 5722

Kerma elastic
Cross Section

57-La-137
-98.12 To 9999. %



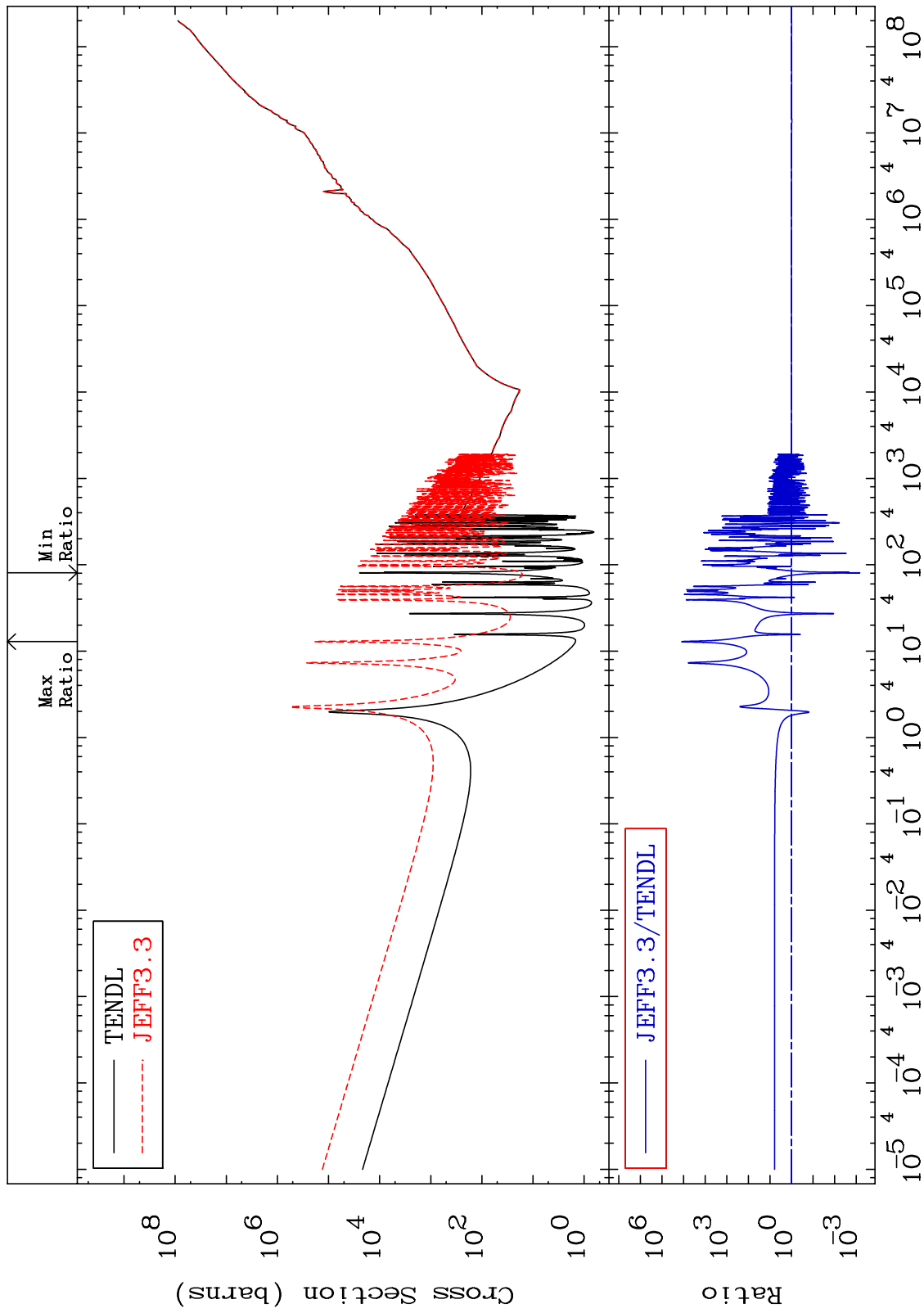
MAT 5722

Kerma non-elastic (all but mt2)

57-La-137

-99.93 To 9999. %

Cross Section

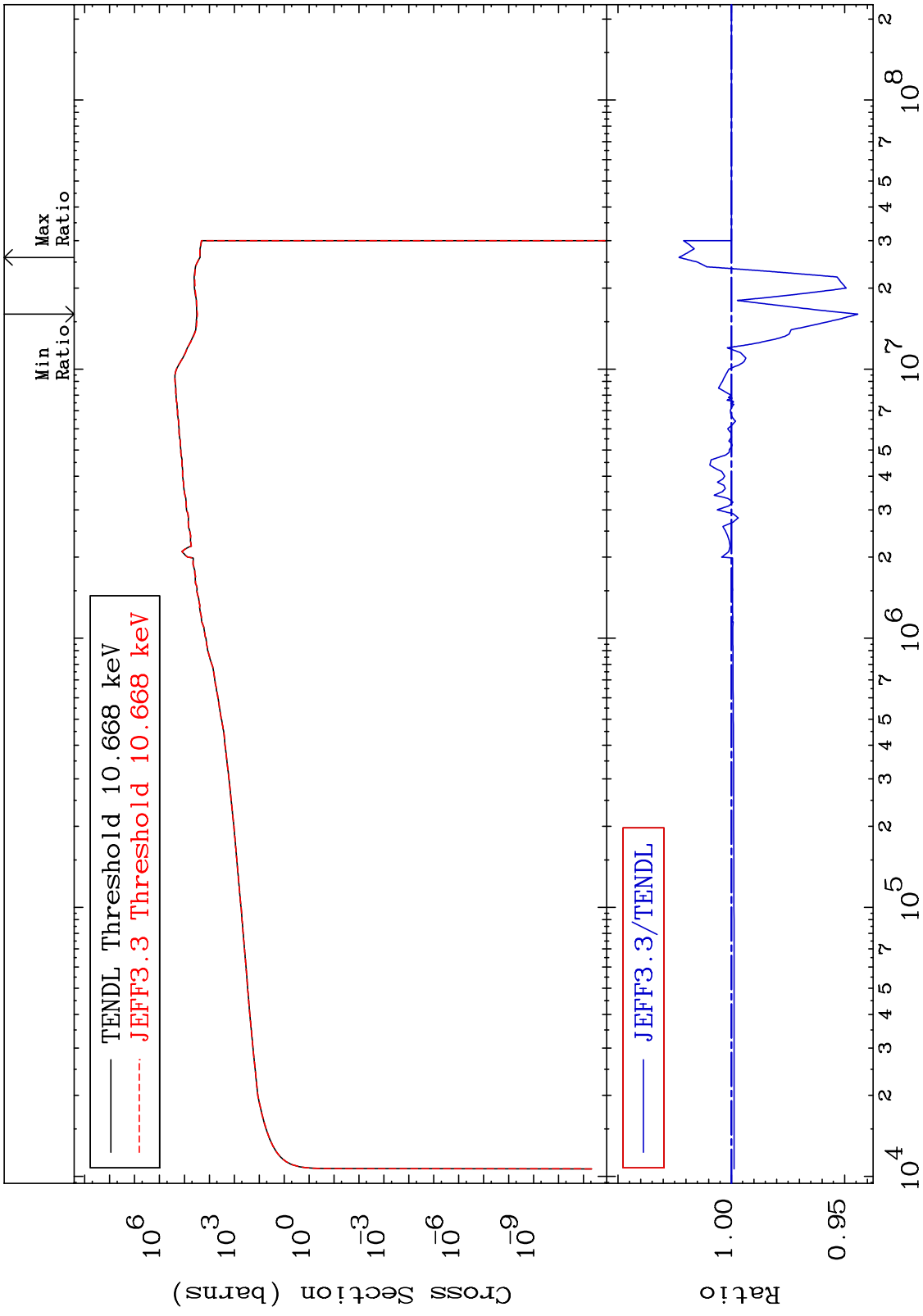


70

Incident Energy (eV)

57-La-137

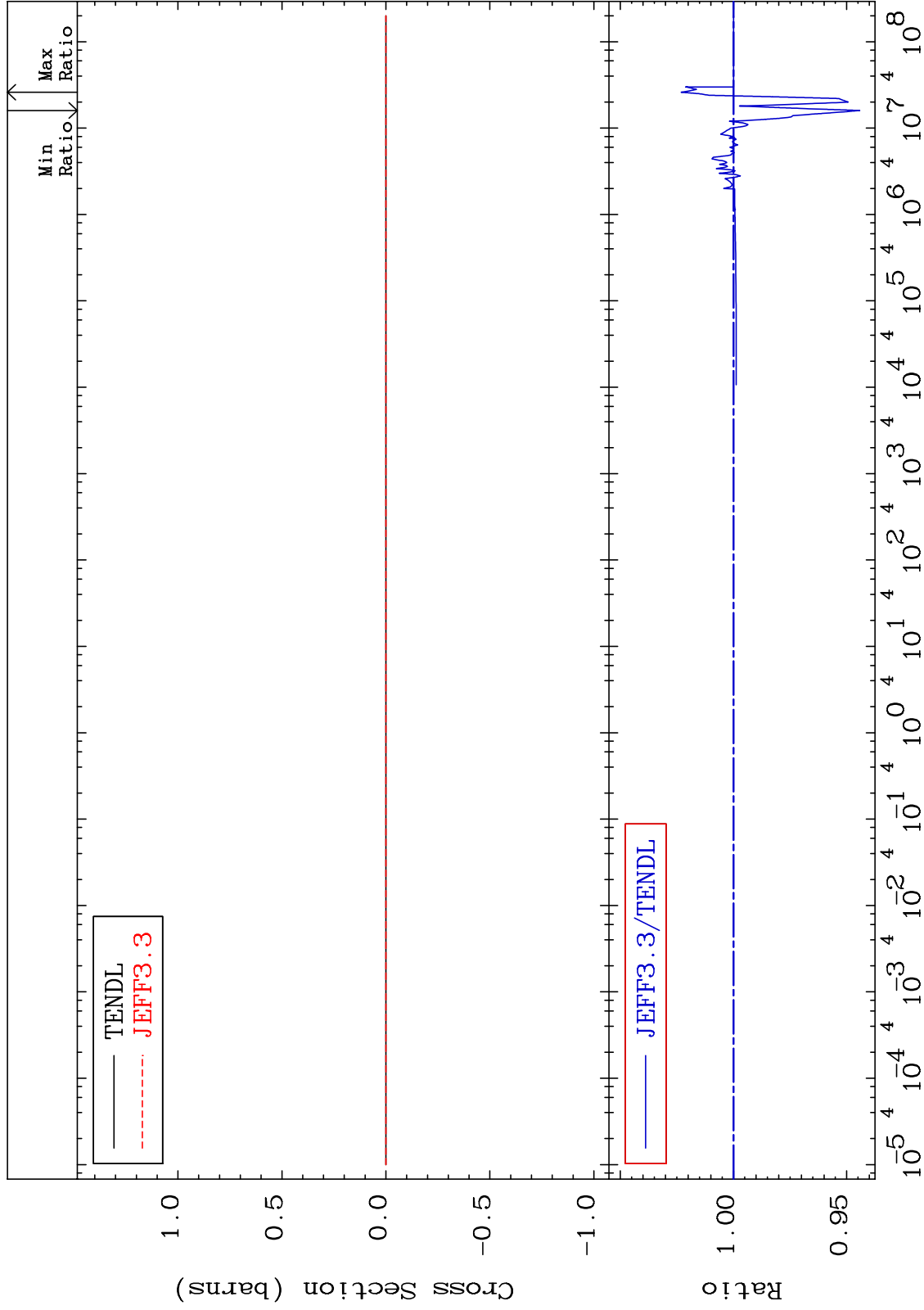
MAT 5722 Kerma inelastic (mt51-91) 57-La-137
Cross Section -5.578 To 2.307 %



MAT 5722

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

57-La-137
-5.578 To 2.307 %



72

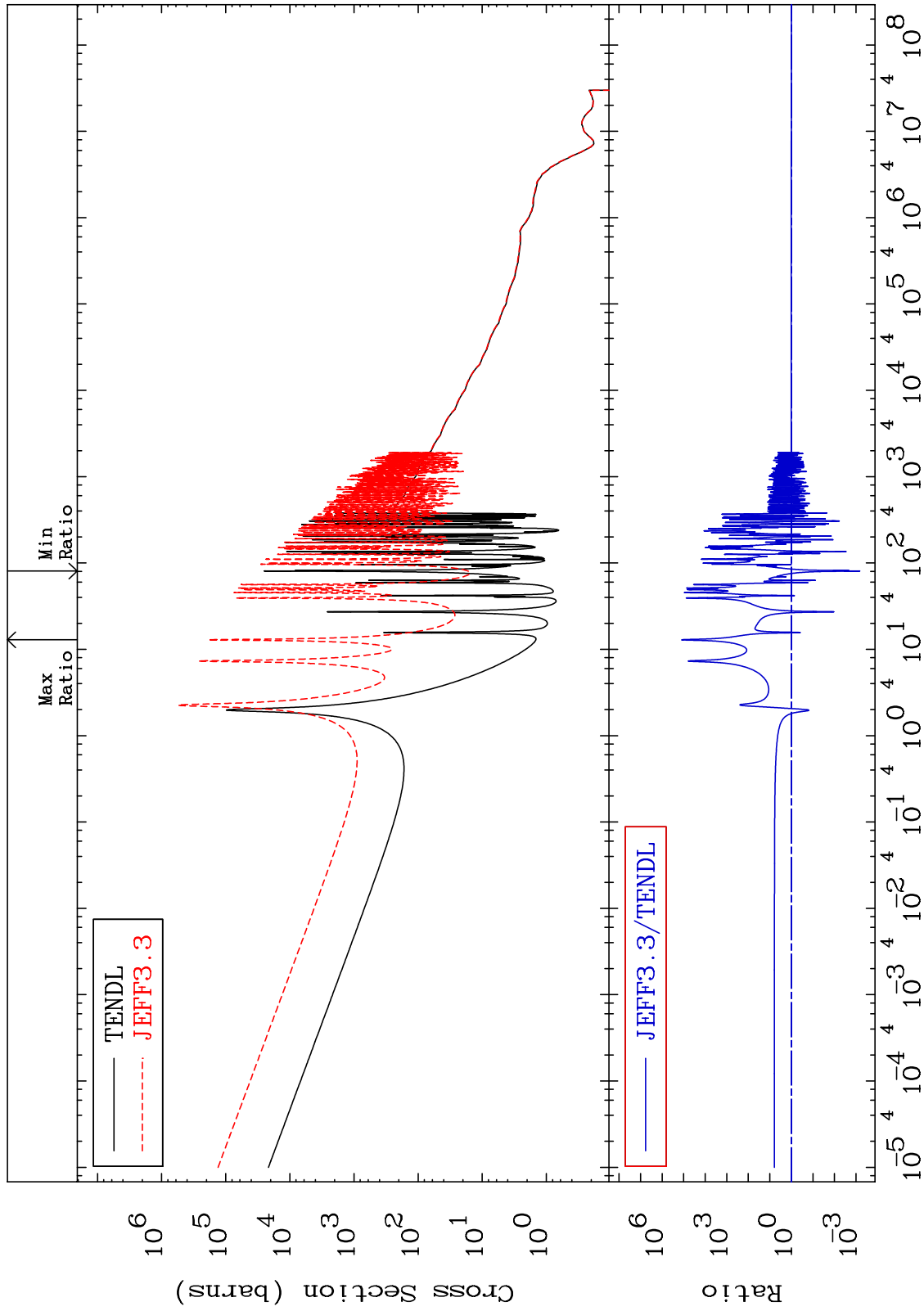
Incident Energy (eV)

57-La-137

MAT 5722

Kerma capture (mt102)
Cross Section

57-La-137
-99.93 To 9999. %



73

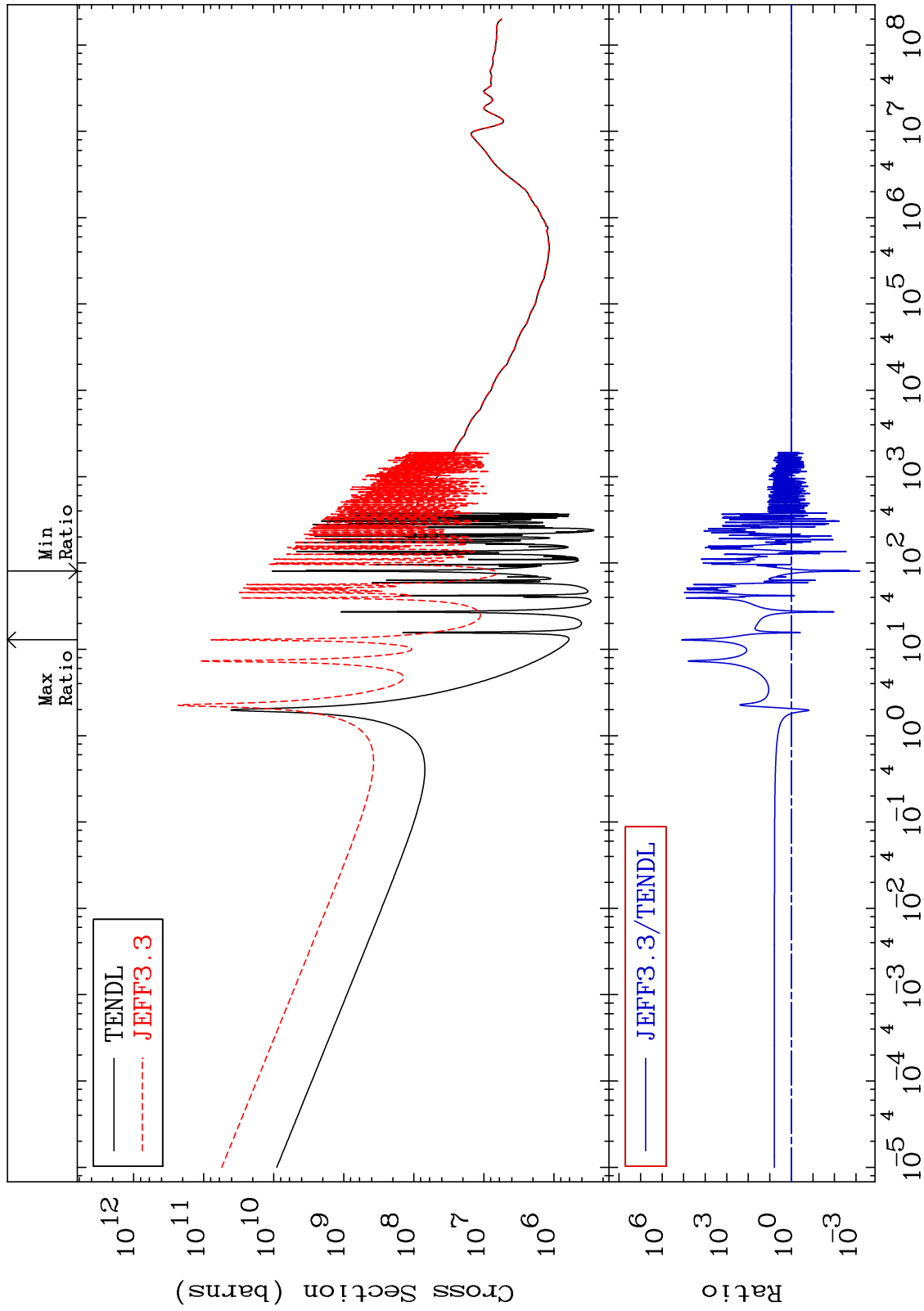
Incident Energy (eV)

57-La-137

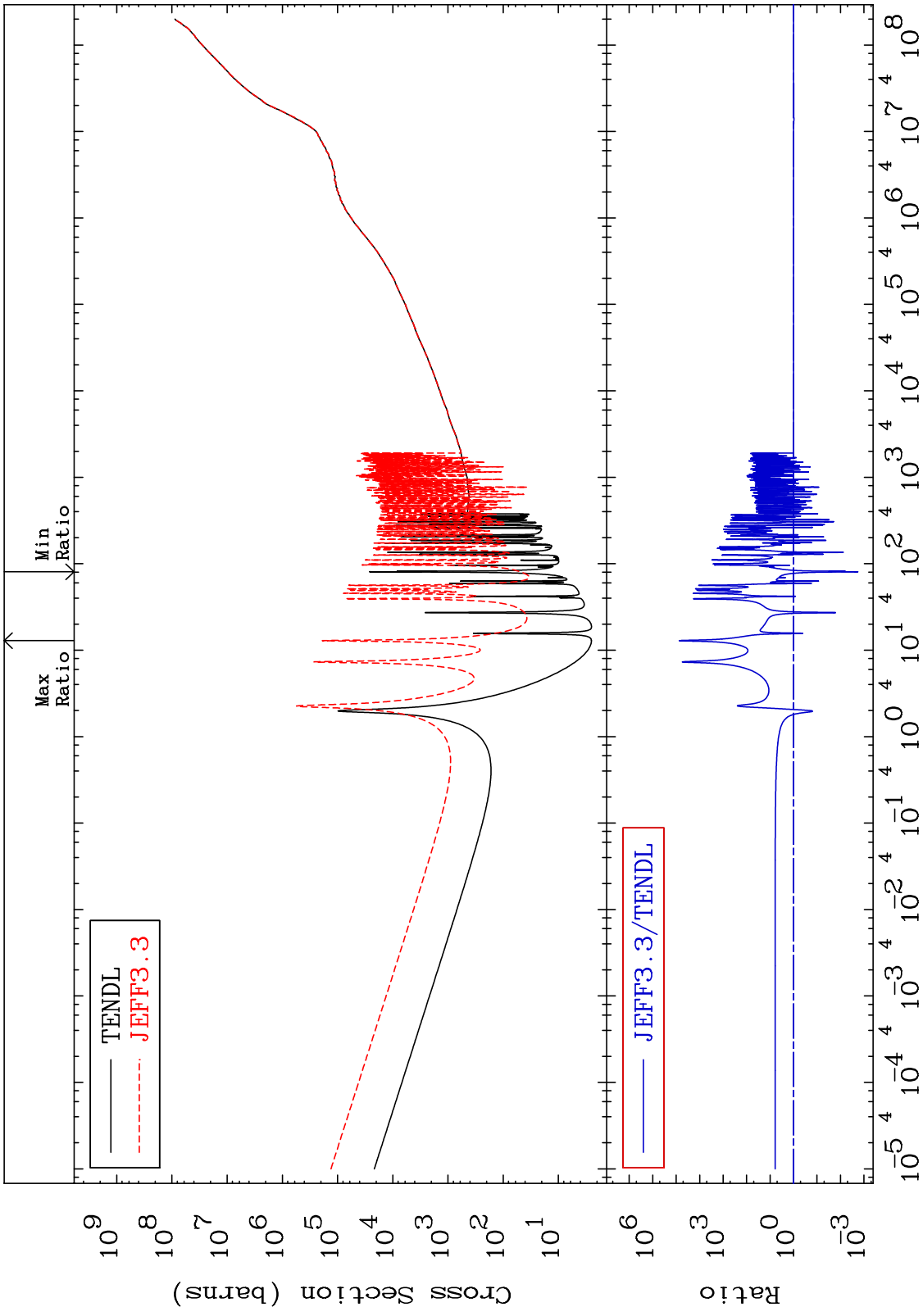
MAT 5722

Total photon (eV-barns)
Cross Section

57-La-137
-99.93 To 9999. %



MAT 5722 Total kinematic kerma (high limit) 57-La-137
 -99.82 To 9999. %
 Cross Section



75 Incident Energy (eV) 57-La-137

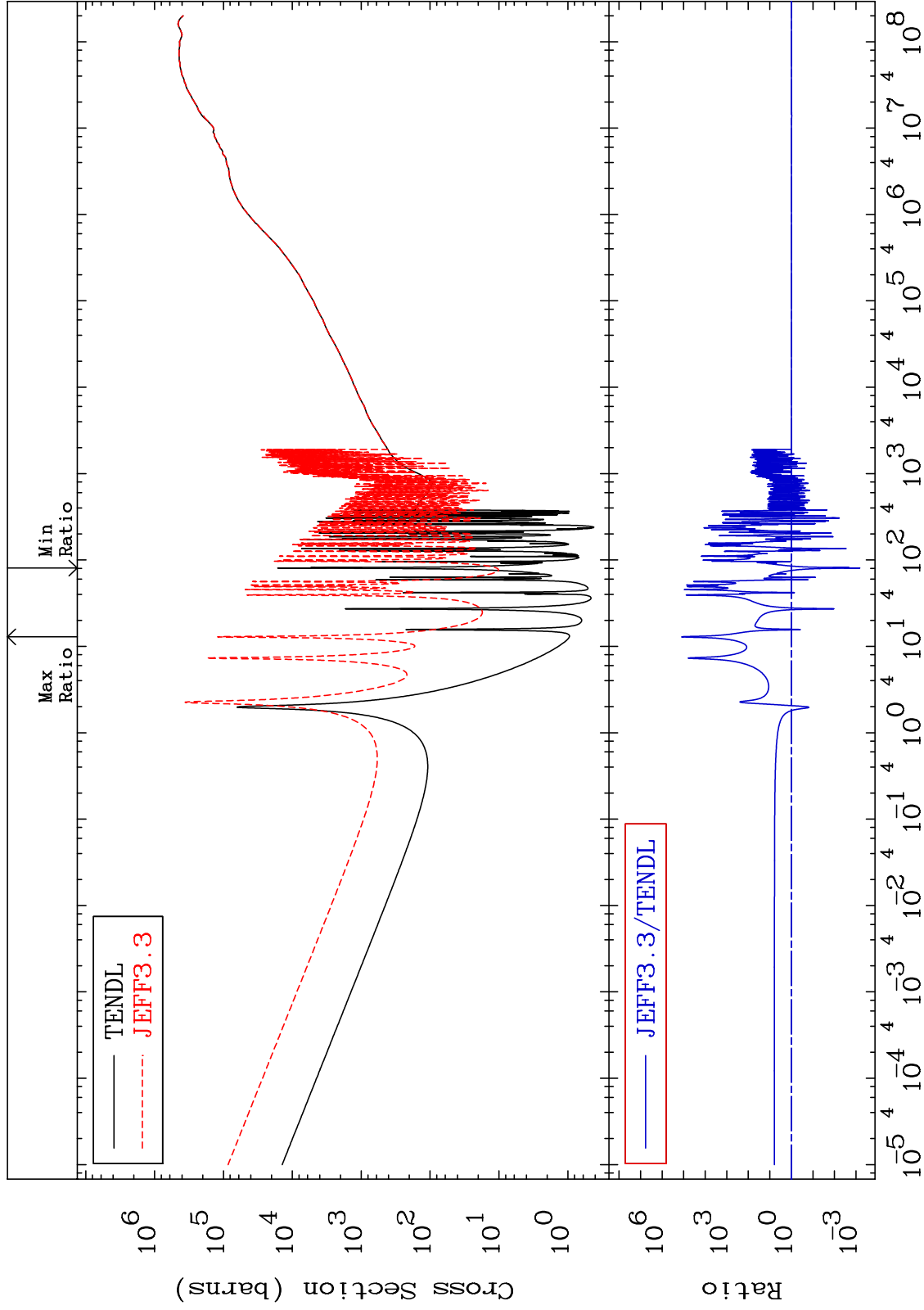
MAT 5722

Dpa total (eV-barns)

57-La-137

-99.93 To 9999. %

Cross Section



76

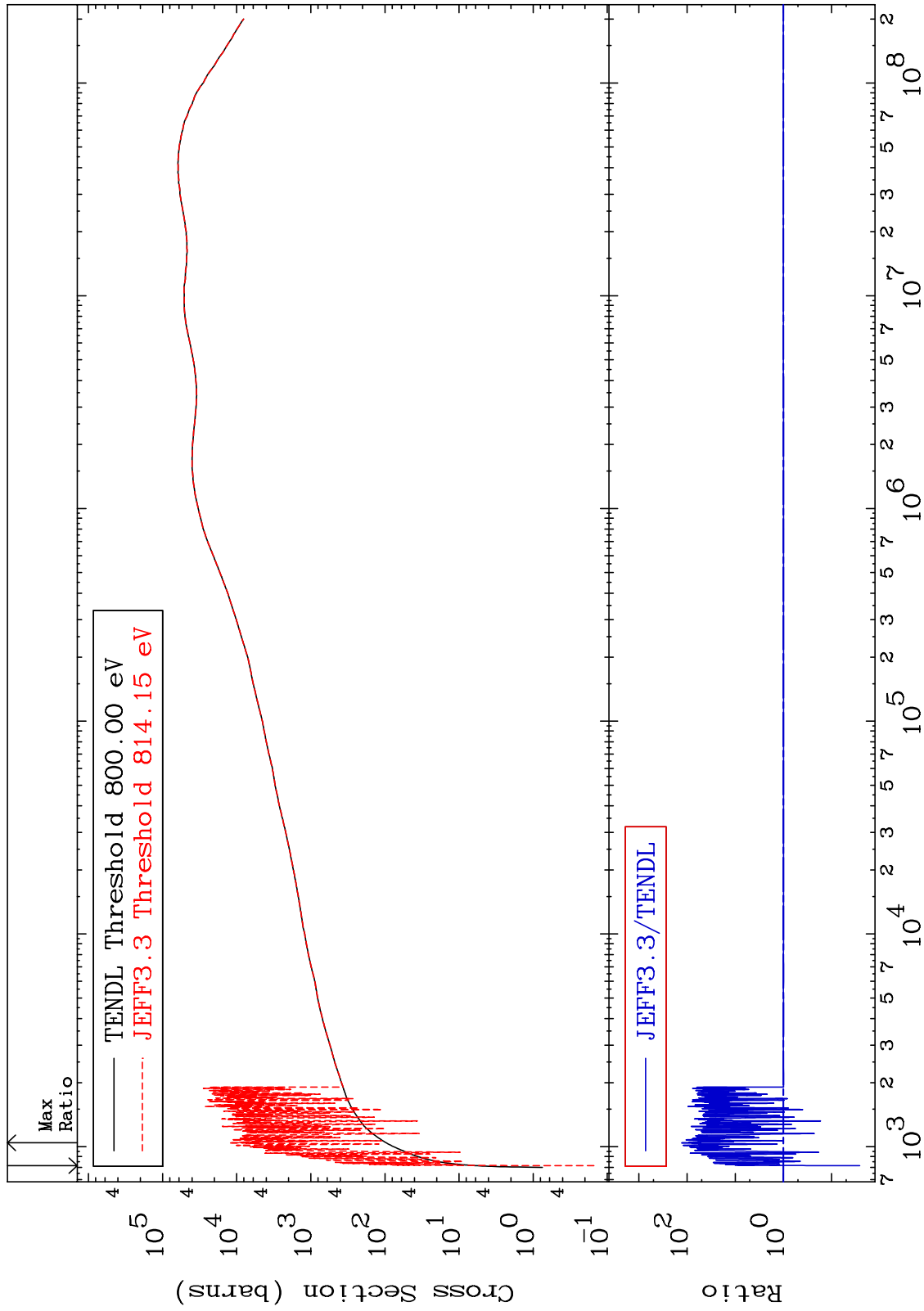
Incident Energy (eV)

57-La-137

MAT 5722

Dpa elastic (mt2)
Cross Section

57-La-137
-97.40 To 9999. %

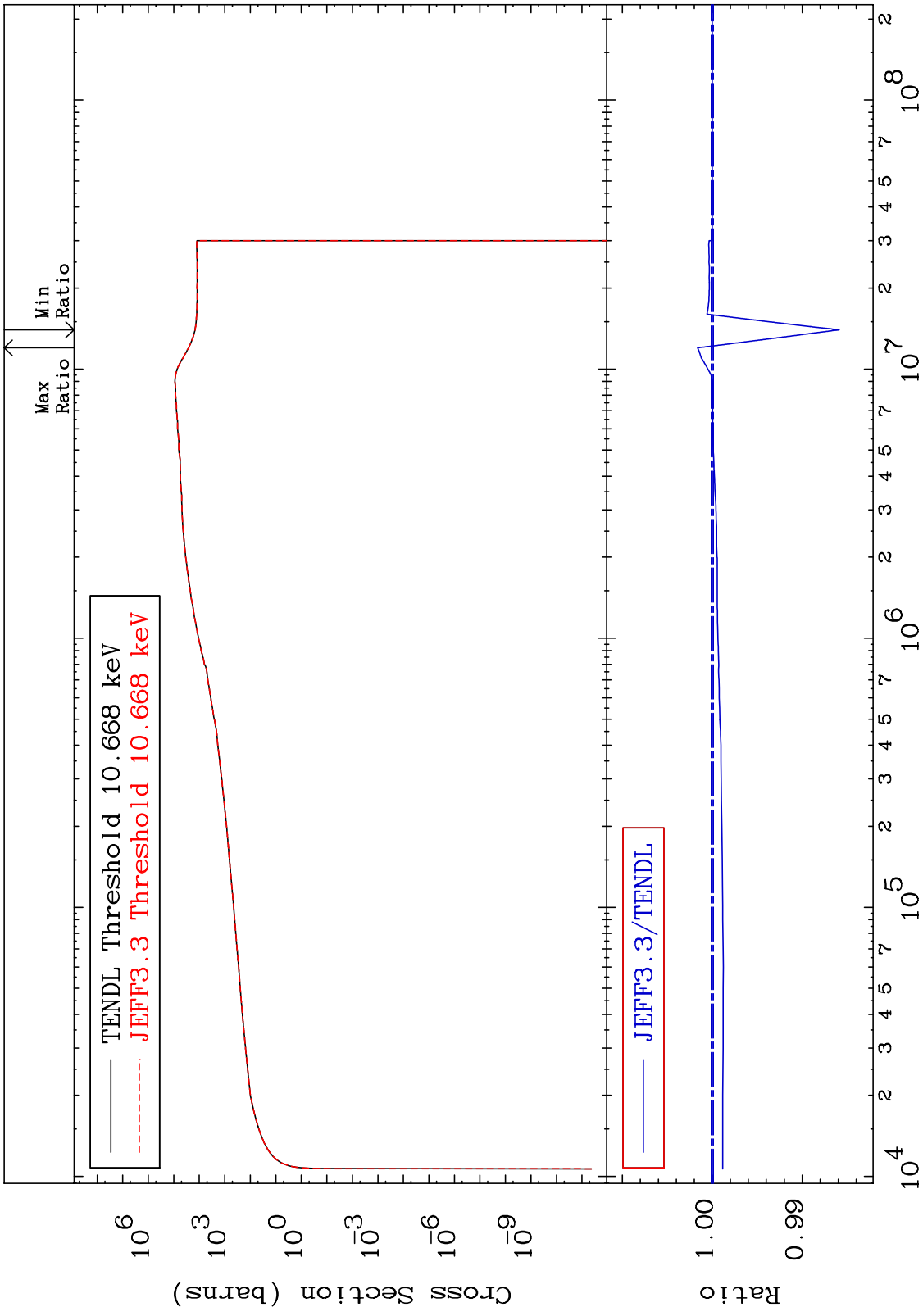


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Incident Energy (eV)

57-La-137

MAT 5722 Dpa inelastic (mt51-91) 57-La-137
Cross Section -1.411 To 0.163 %



78 Incident Energy (eV) 57-La-137

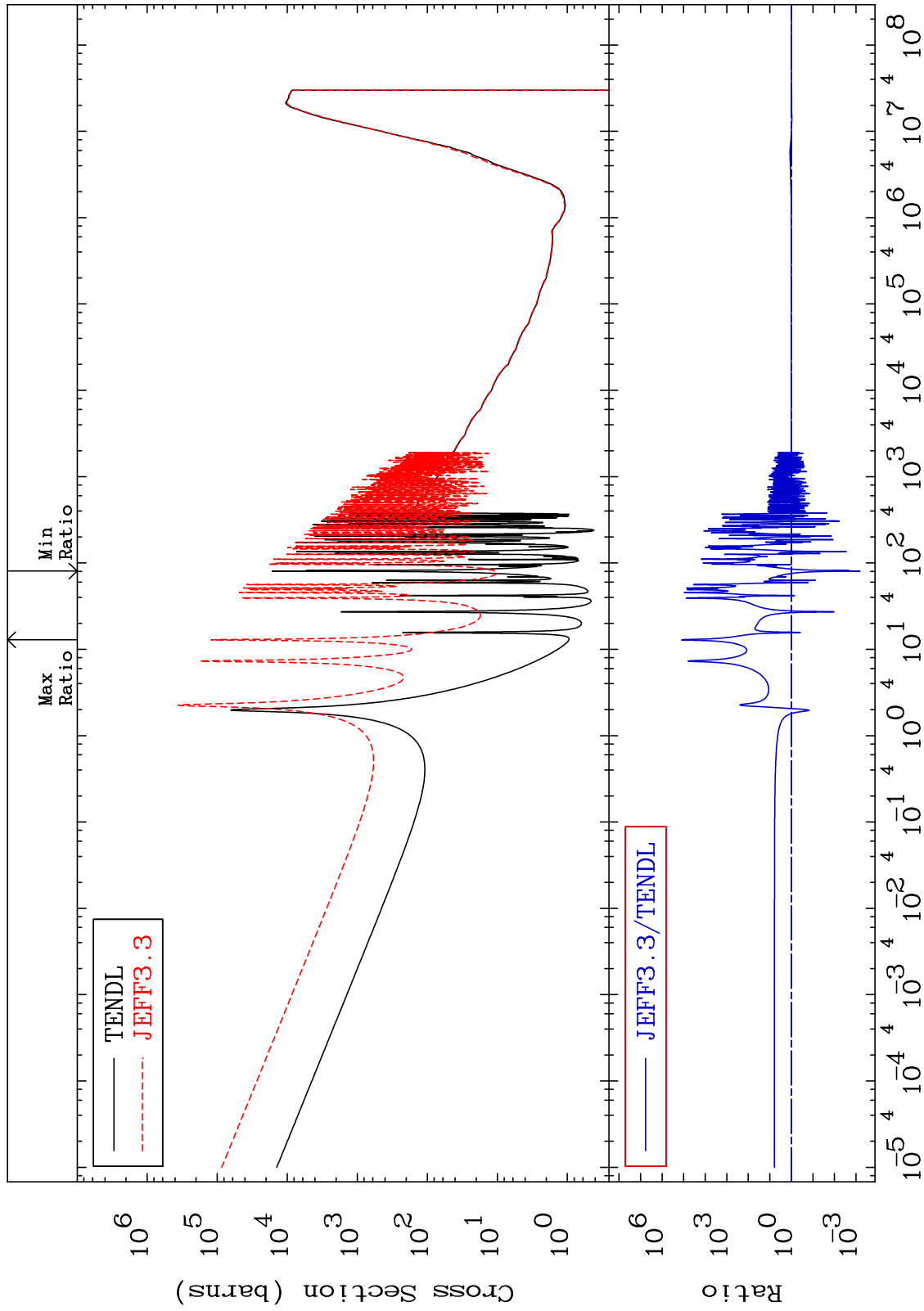
MAT 5722

Dpa disappearance (mt102 -120)

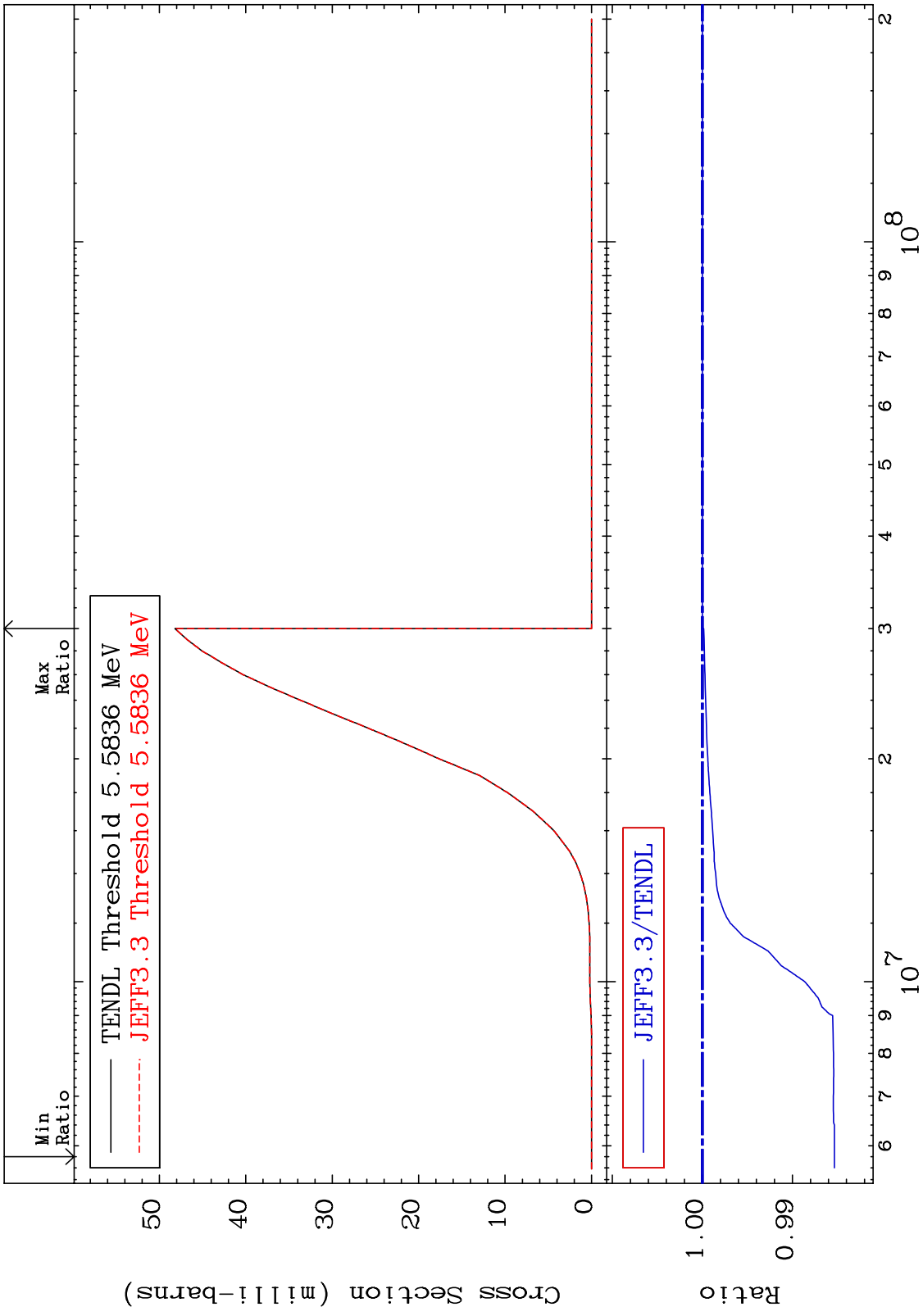
57-La-137

-99.93 To 9999. %

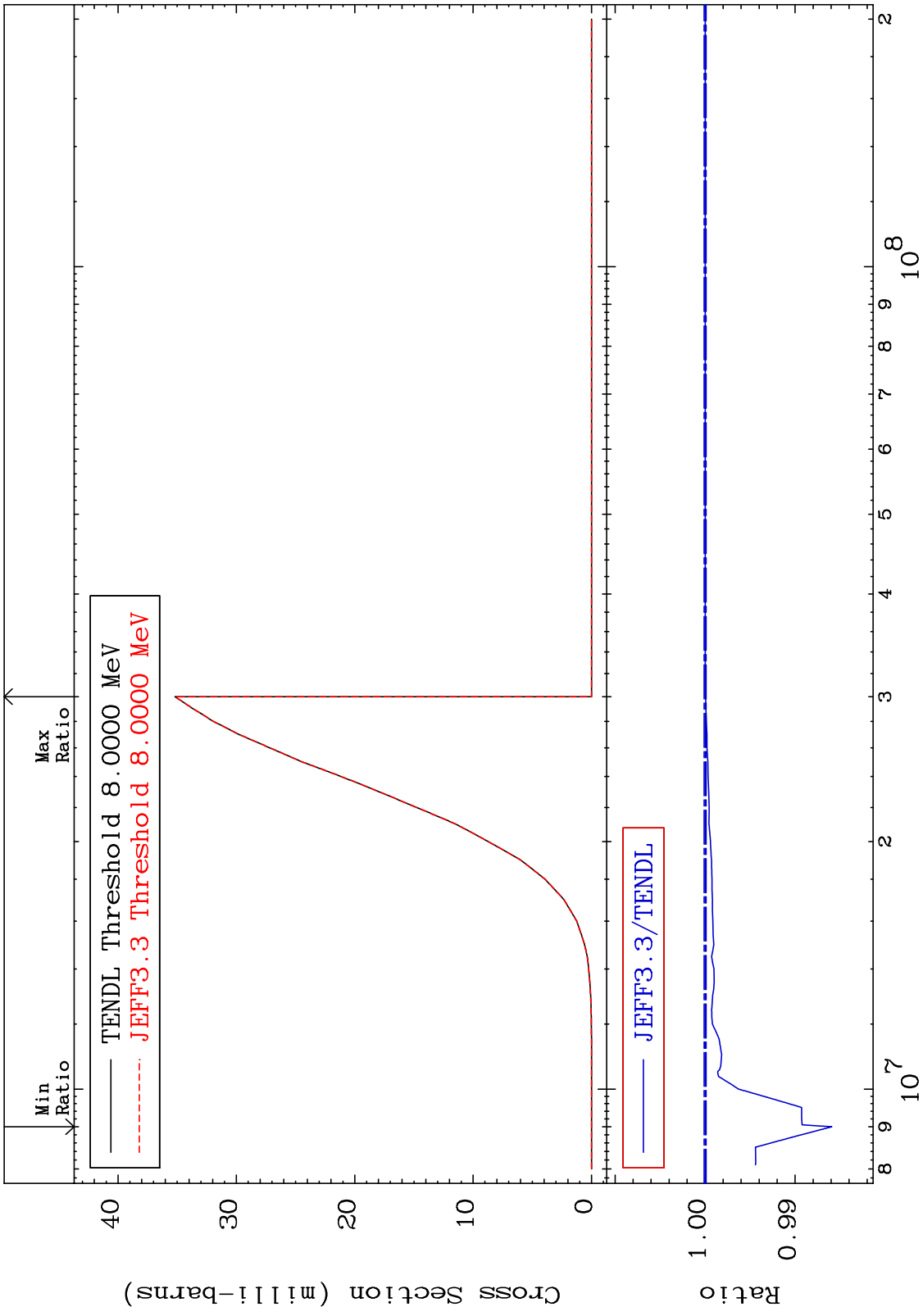
Cross Section



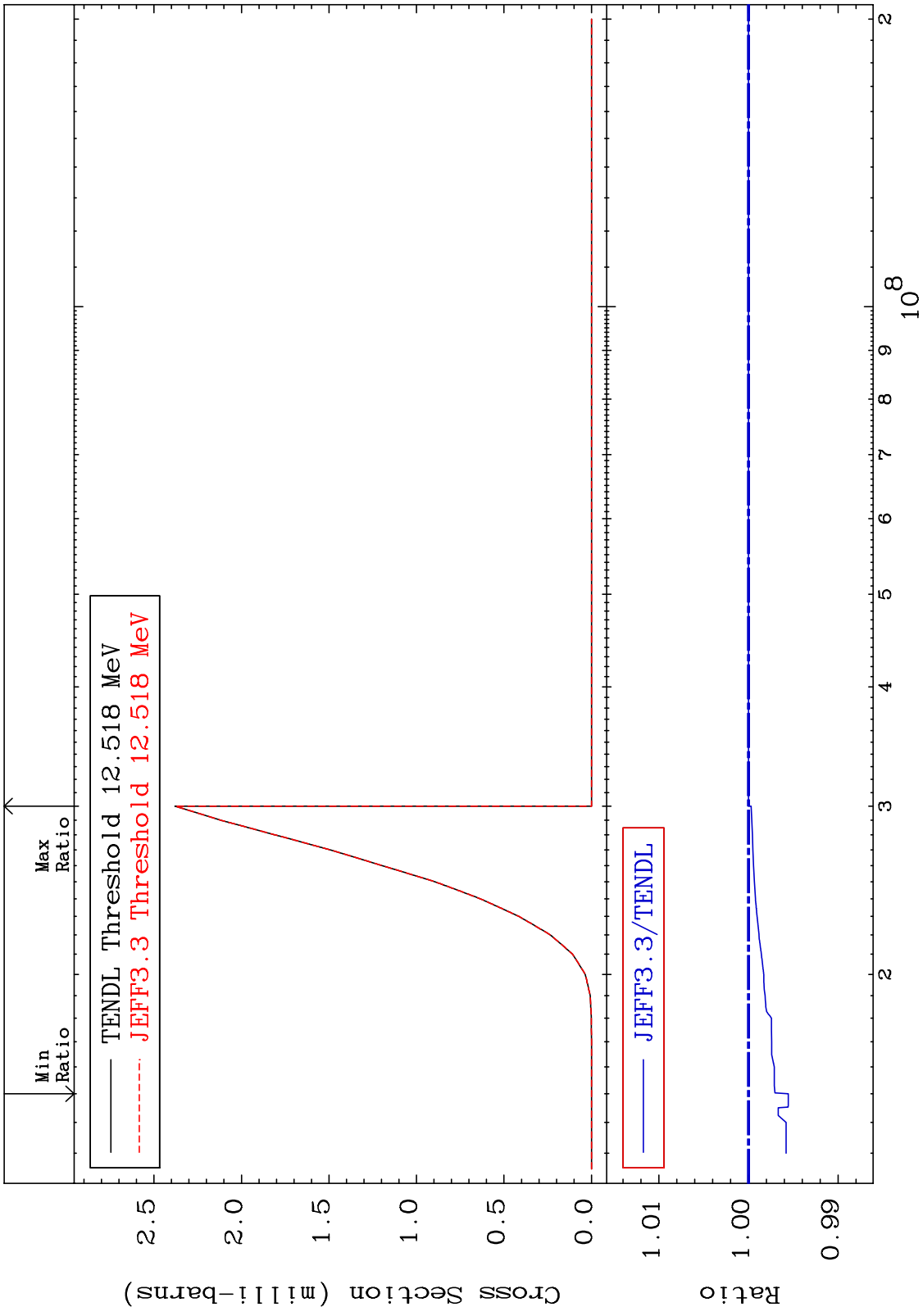
MAT 5722 (n, n') p:56-Ba-136g 57-La-137
 Radionuclide Production Cross Section -1.466 To 0.000 %



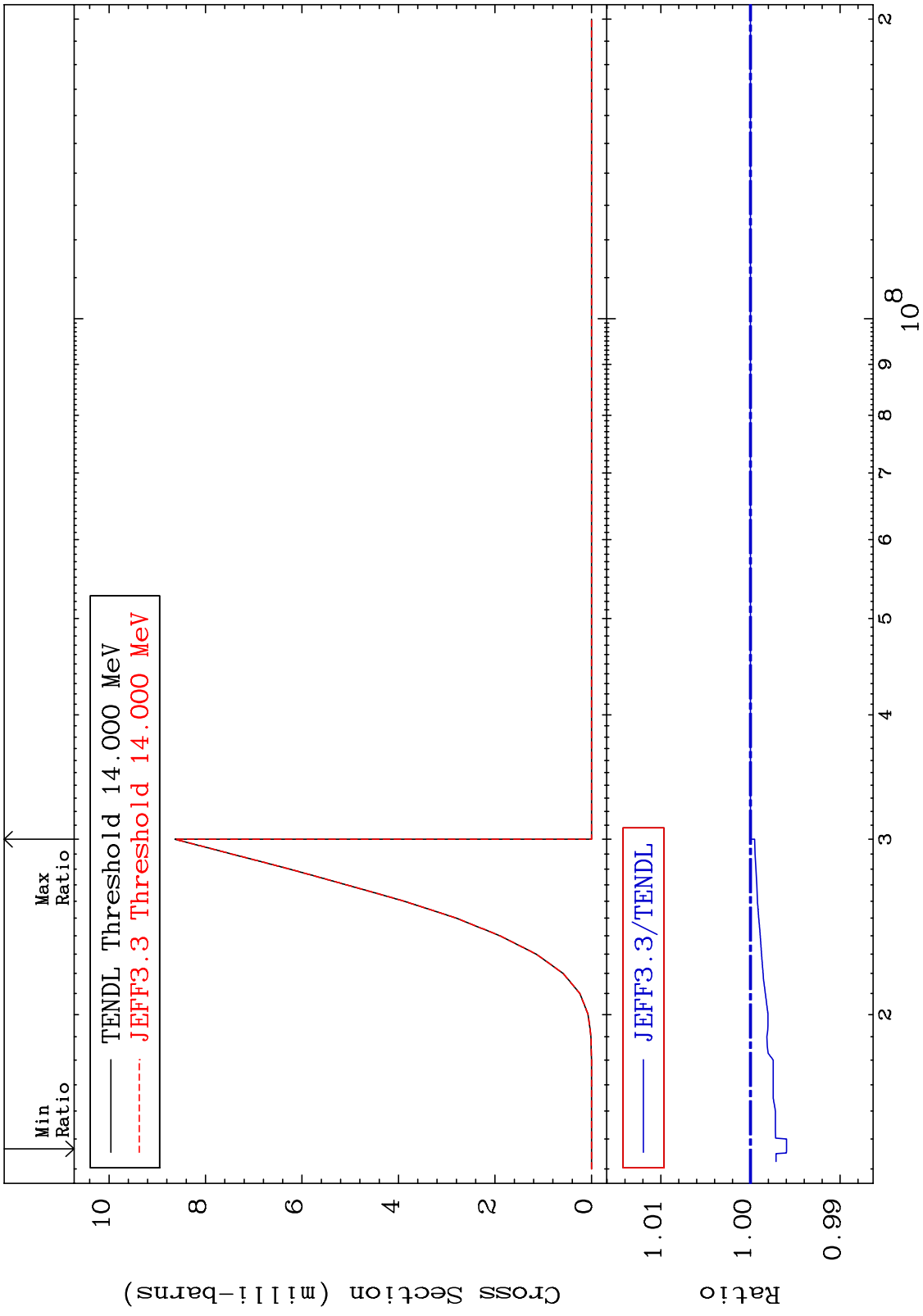
MAT 5722 (n,n') p:56-Ba-136m5 57-La-137
 Radionuclide Production Cross Section -1.407 To 0.000 %



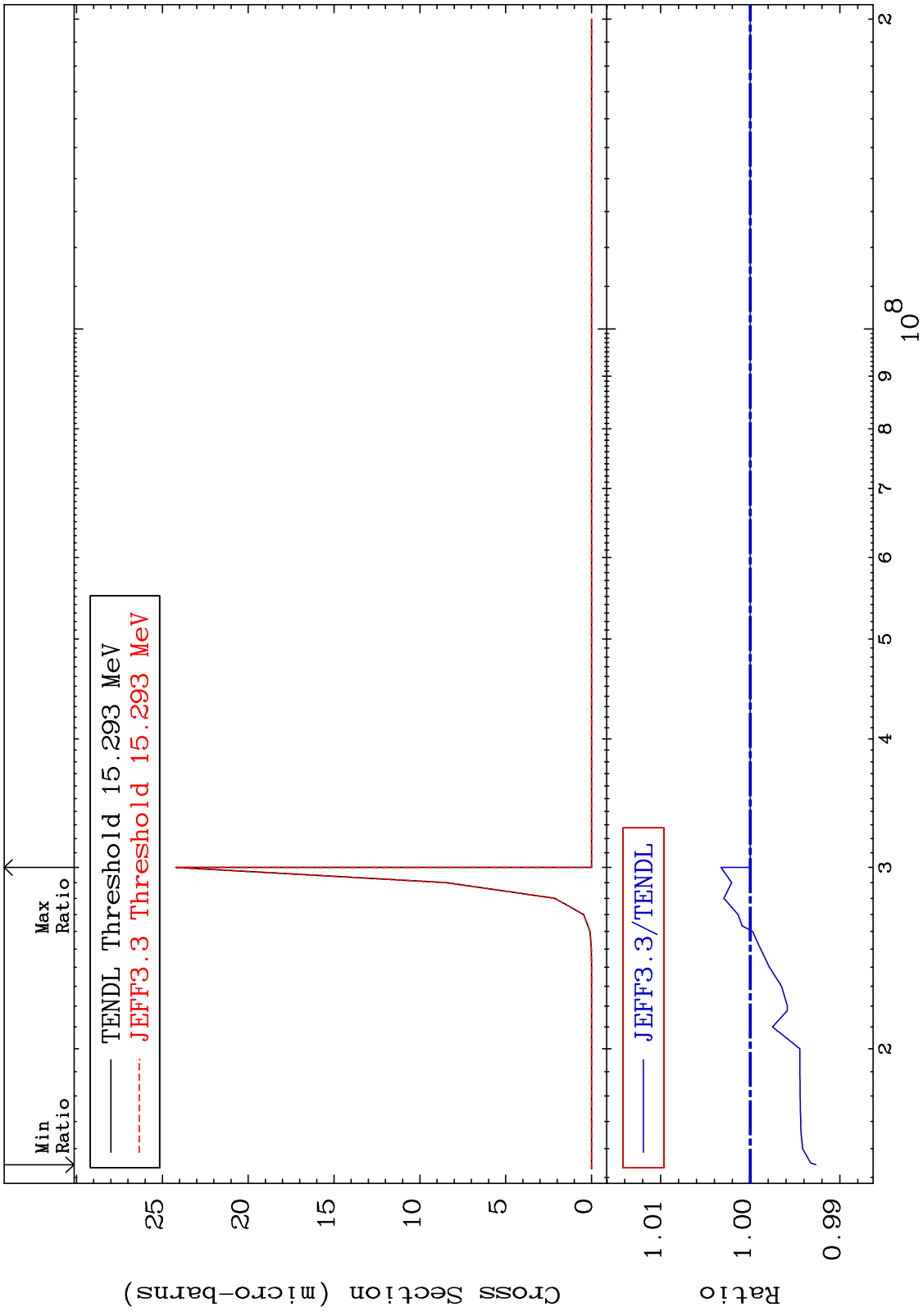
MAT 5722 (n, n') d:56-Ba-135g 57-La-137
 Radionuclide Production Cross Section -0.444 To 0.000 %



MAT 5722 (n,n') d:56-Ba-135m2 57-La-137
 Radionuclide Production Cross Section -0.402 To 0.000 %



MAT 5722 (n,n') He-3:55-Cs-134g 57-La-137
 Radionuclide Production Cross Section -0.732 To 0.327 %

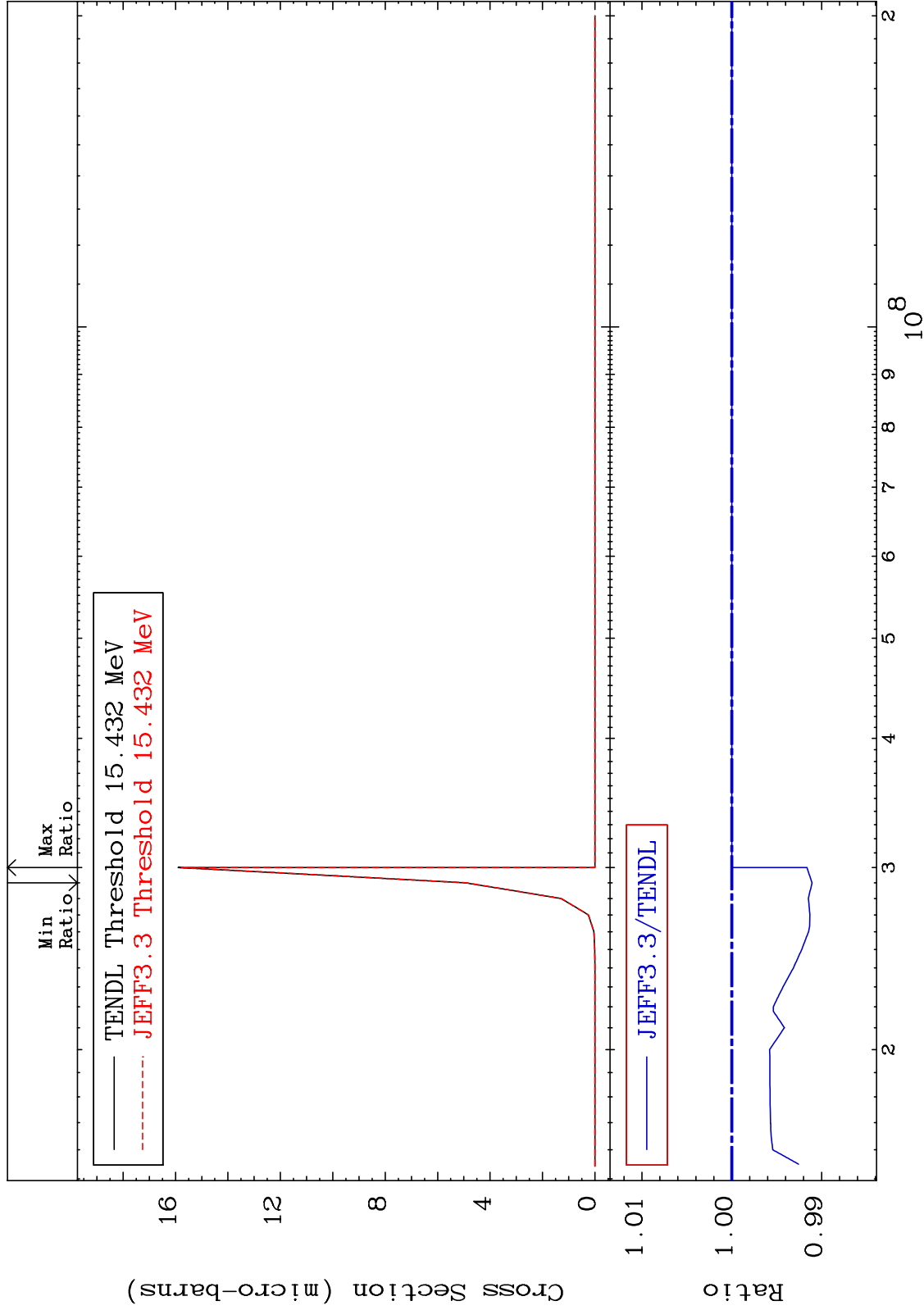


MAT 5722

(n,n') He-3:55-Cs-134m3

57-La-137

Radionuclide Production Cross Section -0.893 To 0.000 %

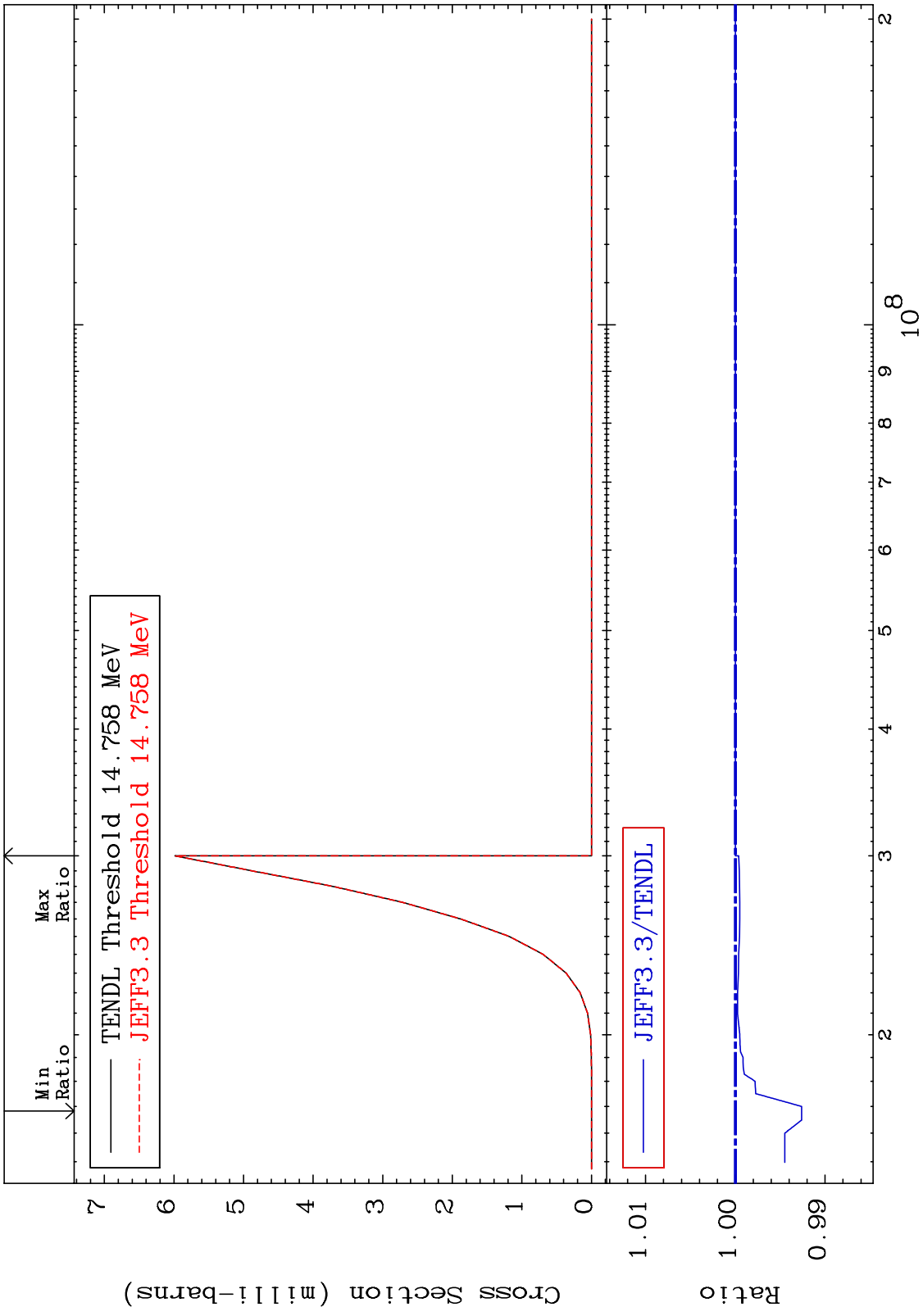


85

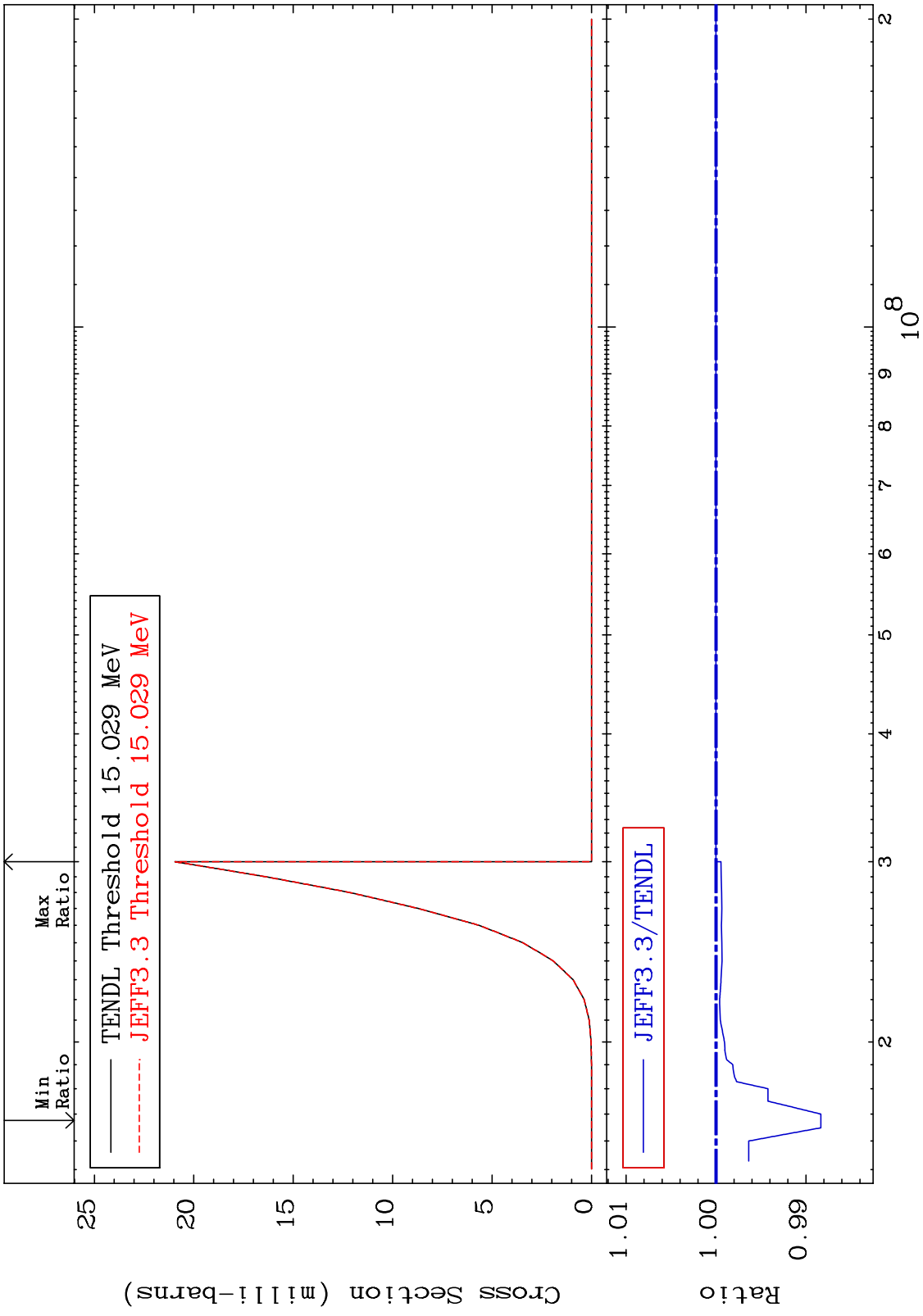
Incident Energy (eV)

57-La-137

MAT 5722 (n,2n) p:56-Ba-135g 57-La-137
 Radionuclide Production Cross Section -0.738 To 0.000 %



MAT 5722 (n,2n) p:56-Ba-135m2 57-La-137
 Radionuclide Production Cross Section -1.166 To 0.000 %

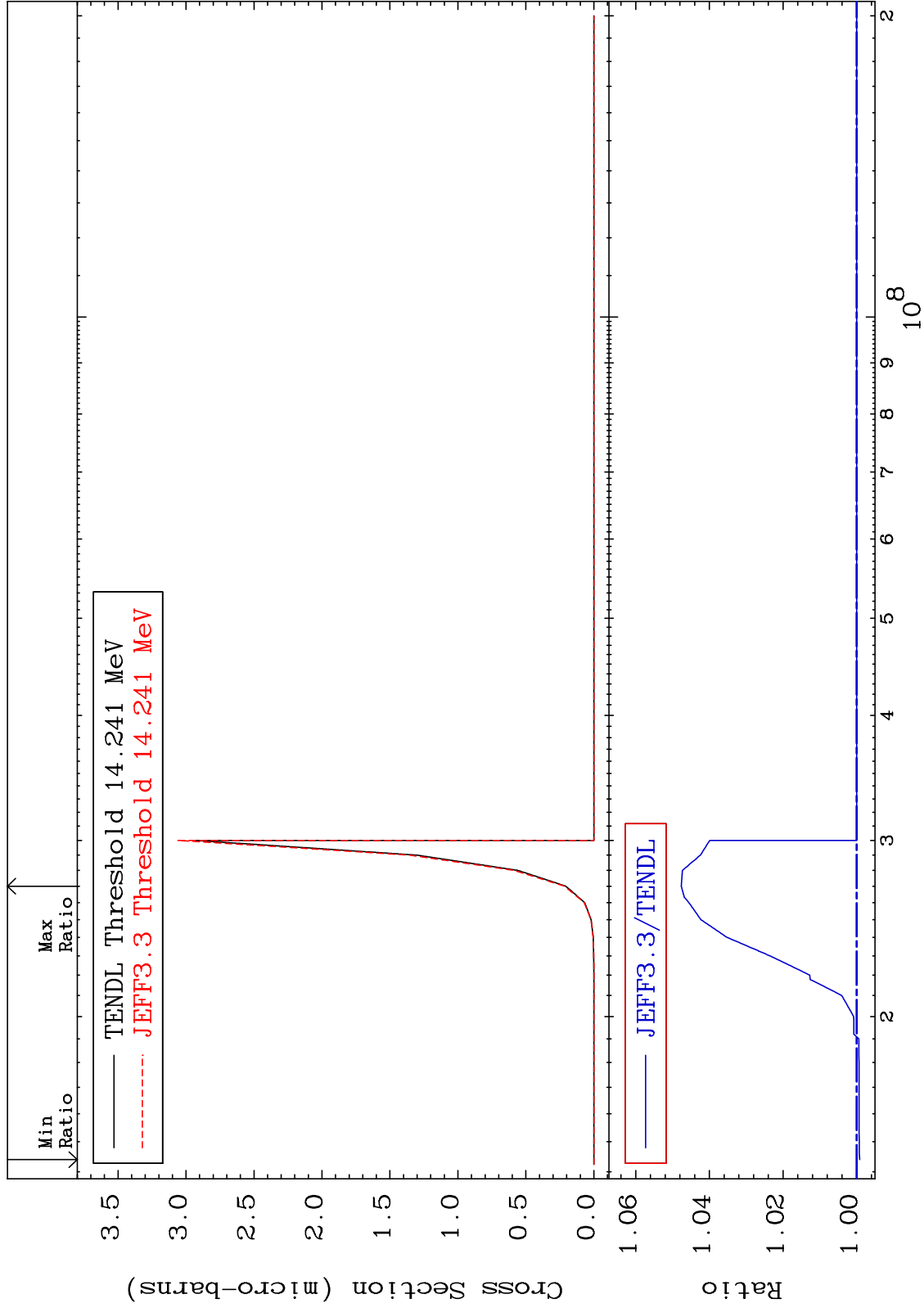


MAT 5722

(n,2n) p:55-Cs-135g

57-La-137

Radionuclide Production Cross Section -0.084 To 4.765 %

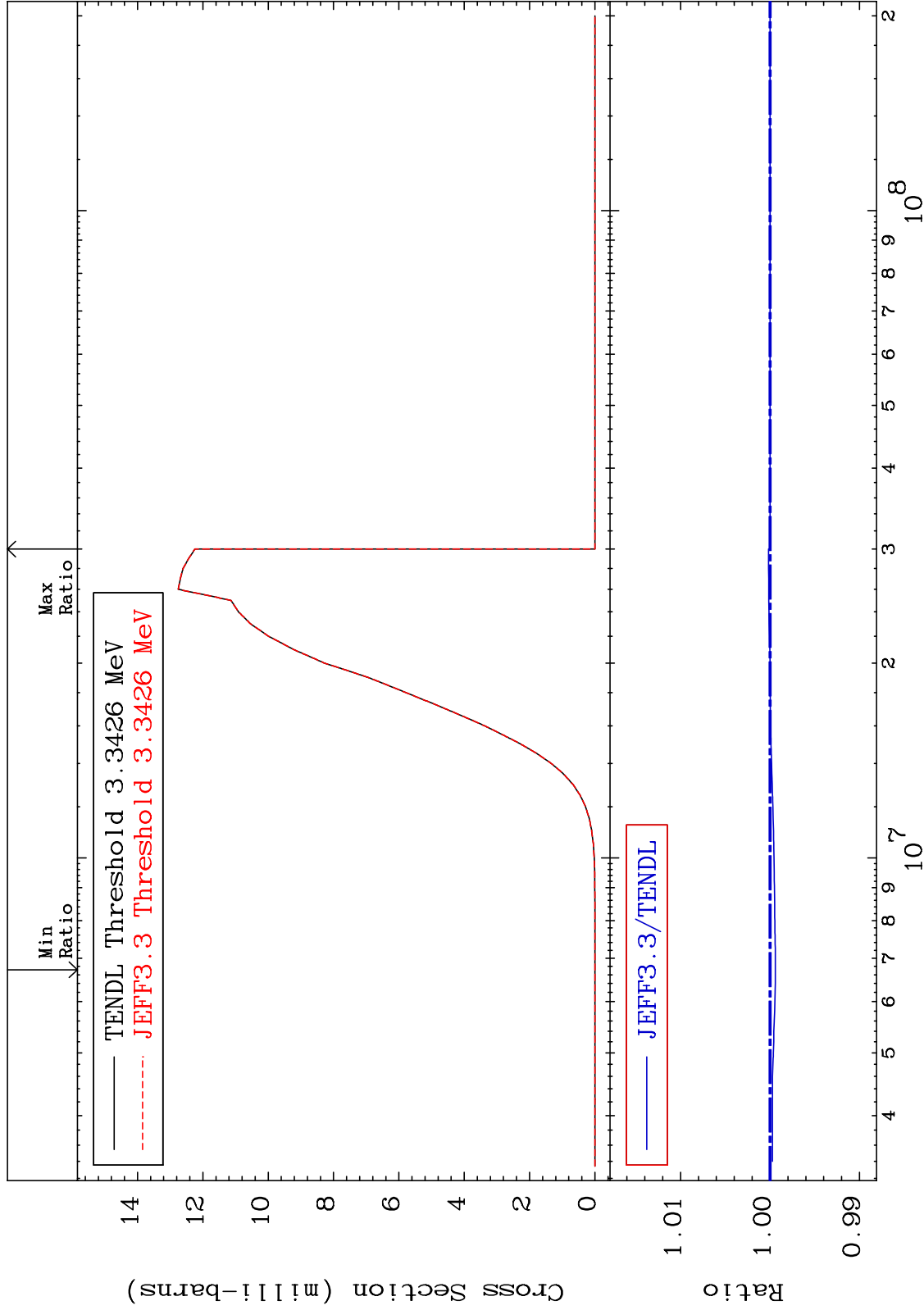


MAT 5722

(n,d):56-Ba-136g

57-La-137

Radionuclide Production Cross Section -0.059 To 0.018 %

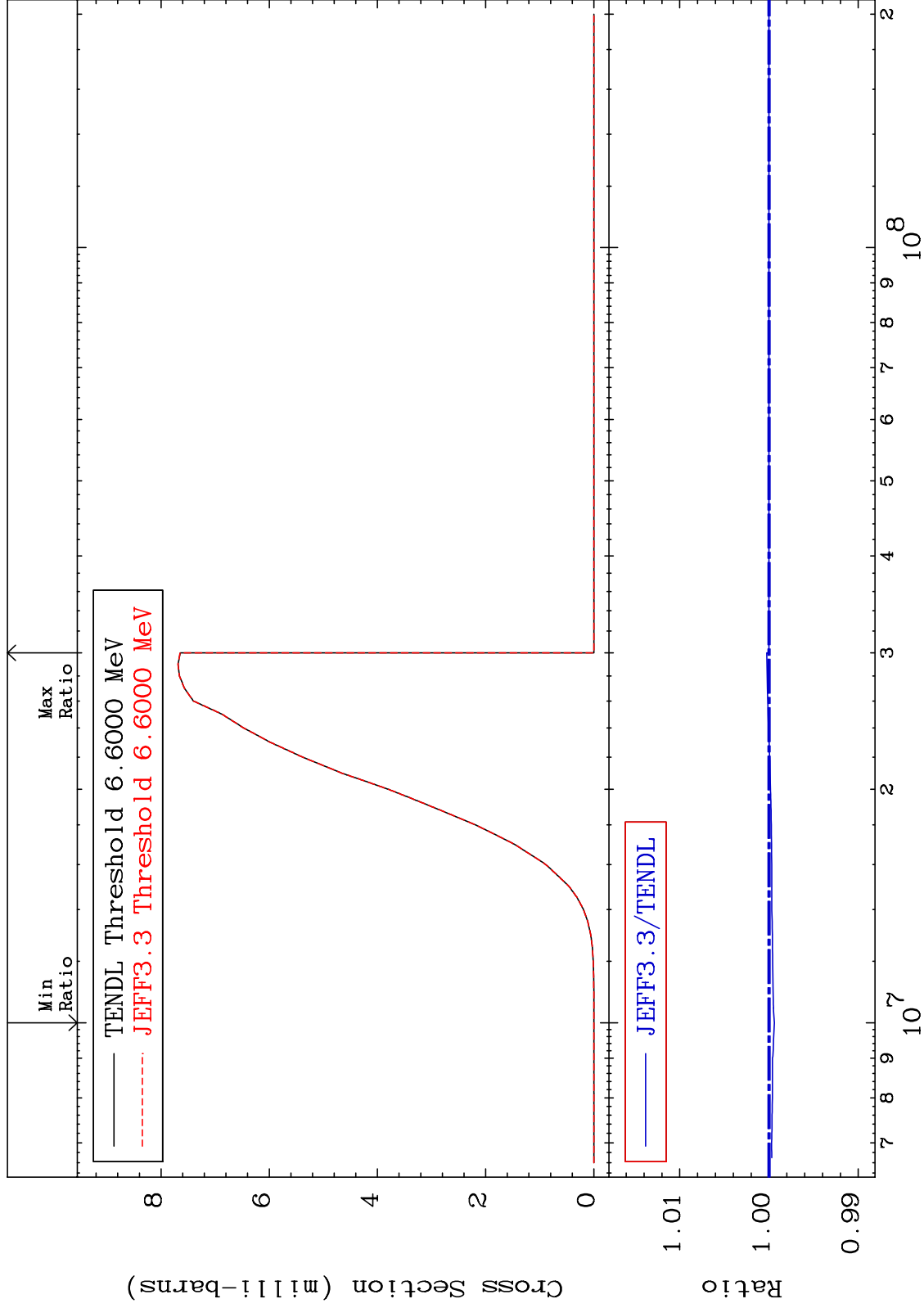


MAT 5722

(n, d) : 56-Ba-136m5

57-La-137

Radionuclide Production Cross Section -0.059 To 0.026 %



90

Incident Energy (eV)

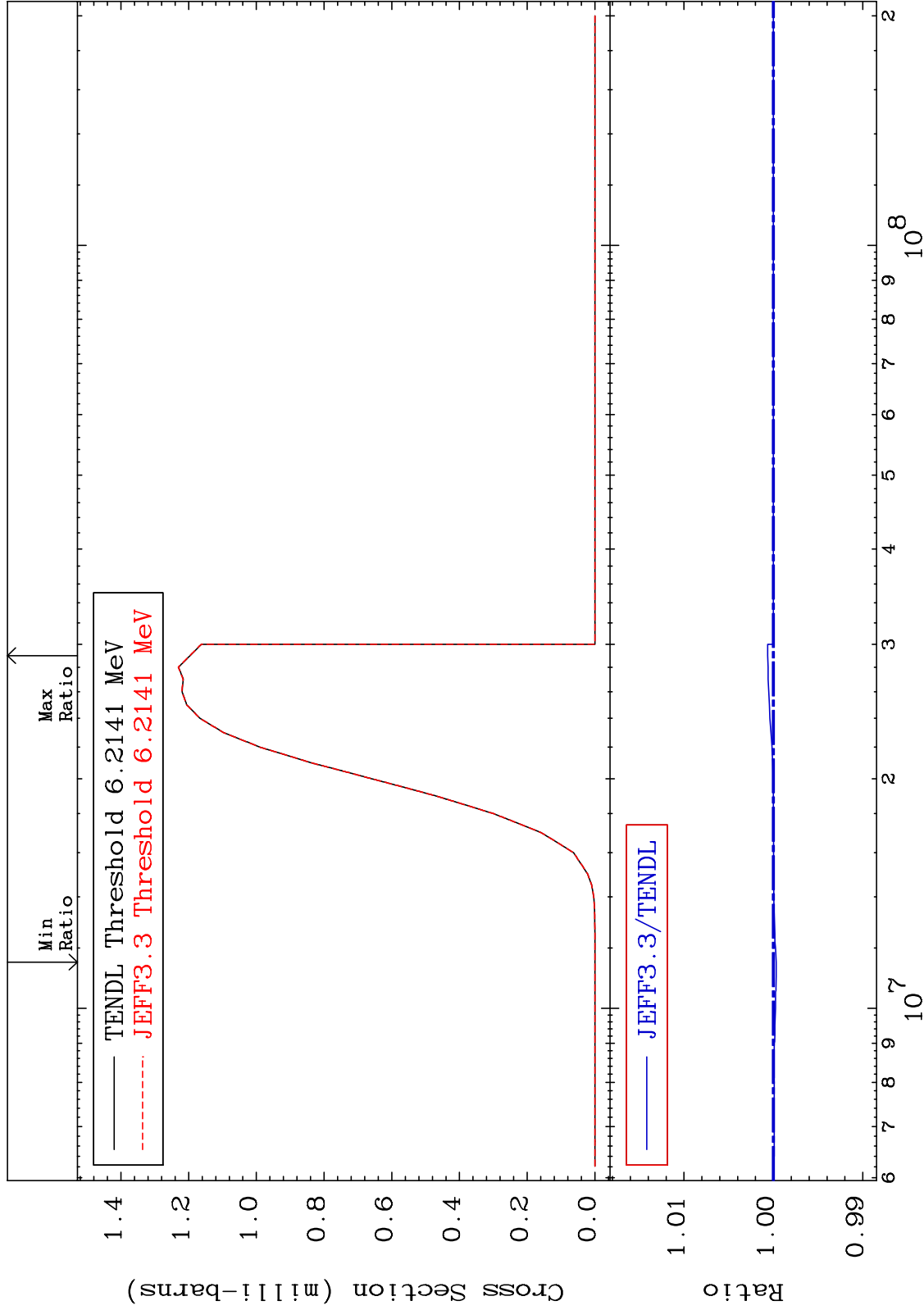
57-La-137

MAT 5722

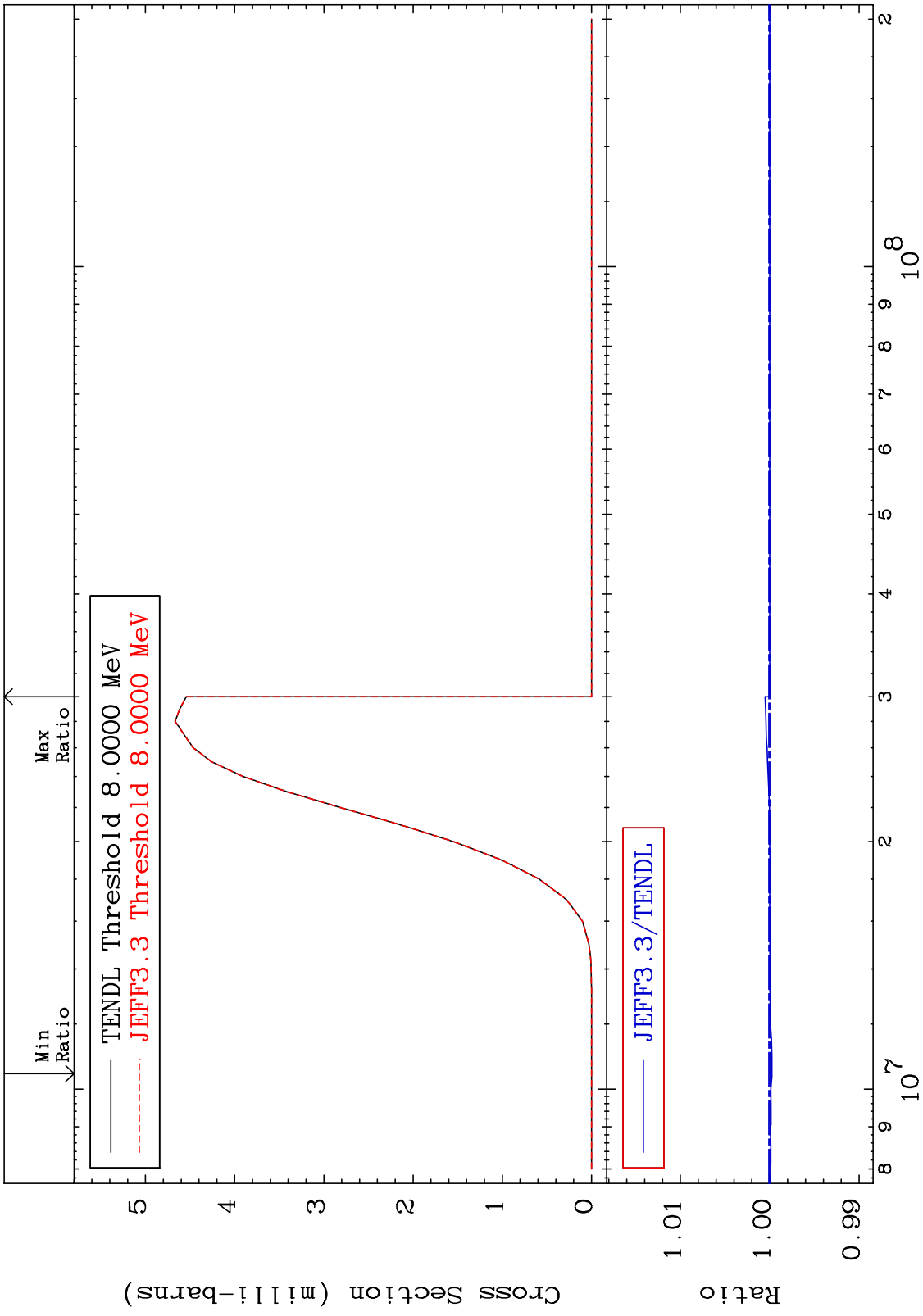
(n,t):56-Ba-135g

57-La-137

Radionuclide Production Cross Section -0.031 To 0.065 %



MAT 5722 (n, t): 56-Ba-135m2 57-La-137
 Radionuclide Production Cross Section -0.024 To 0.053 %

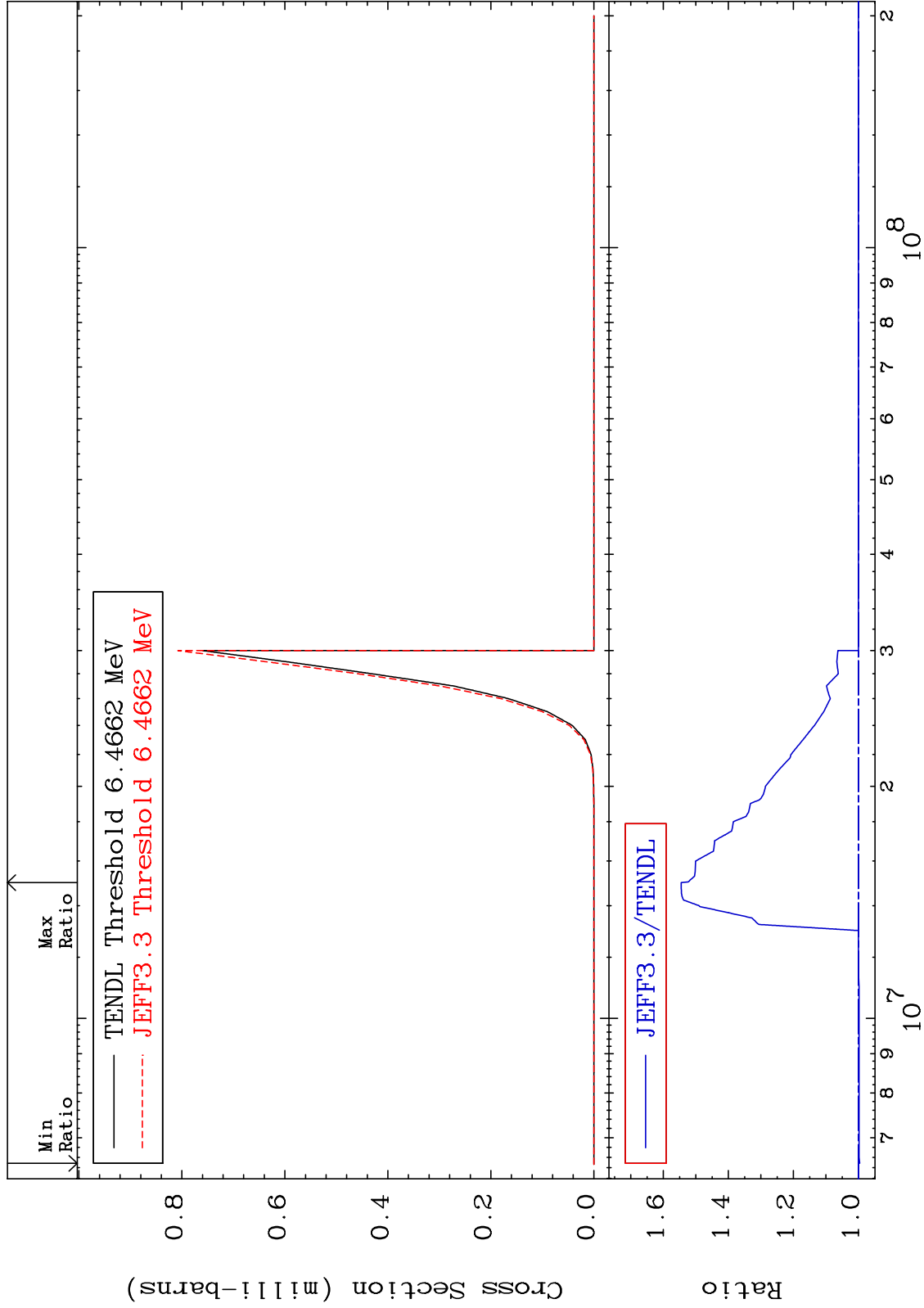


MAT 5722

(n, He-3):55-Cs-135g

57-La-137

Radionuclide Production Cross Section -0.410 To 54.49 %

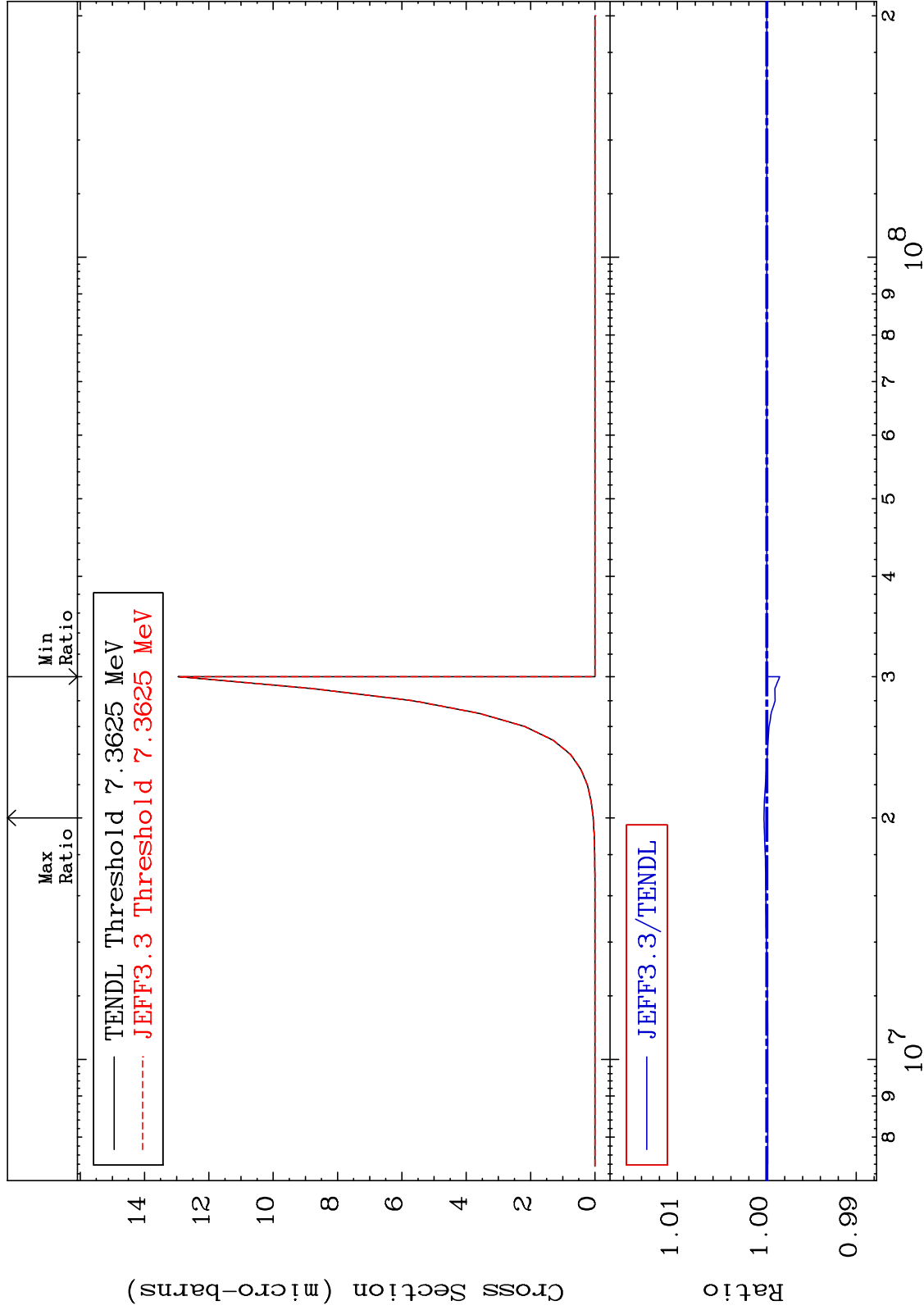


MAT 5722

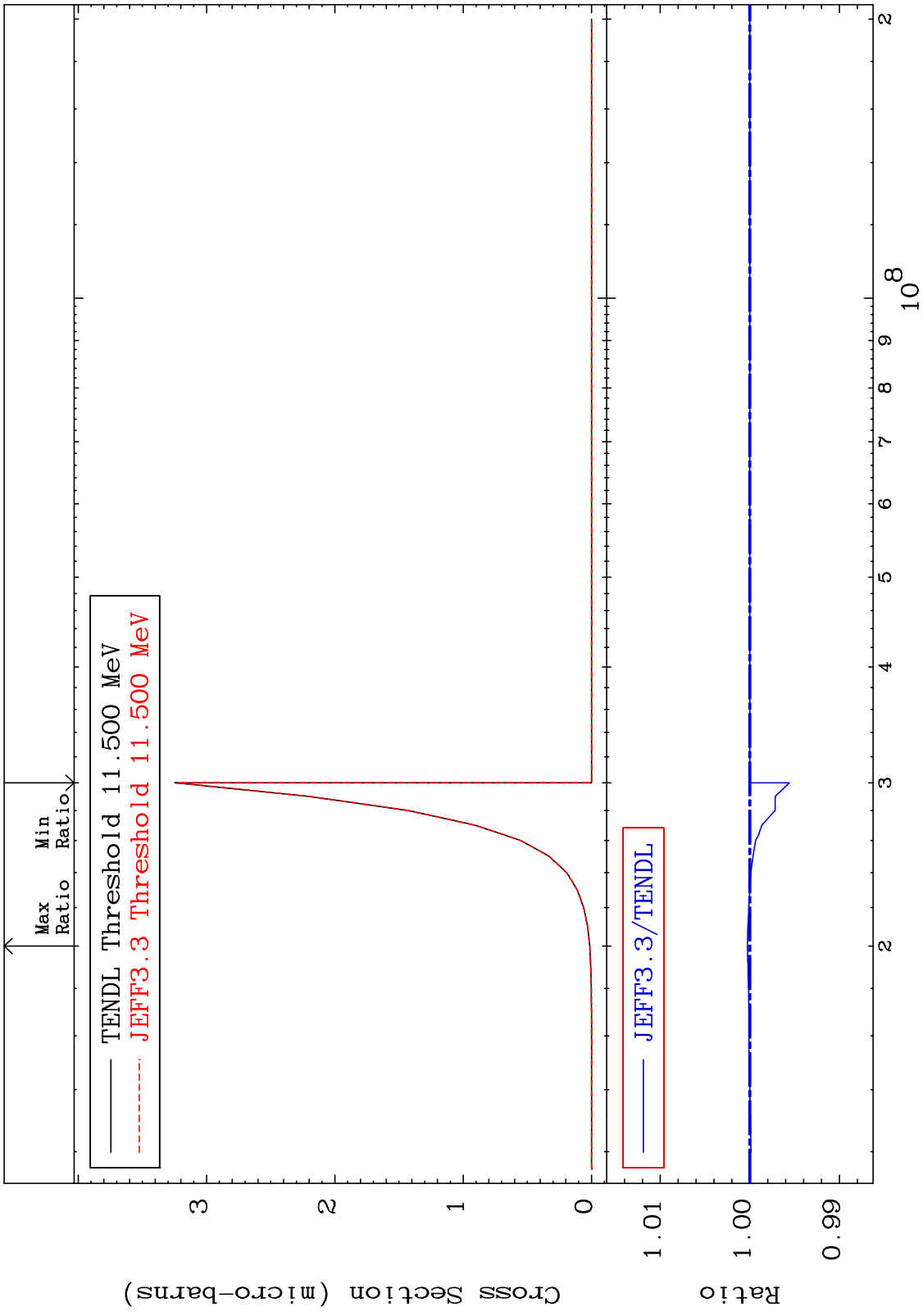
(n,2p):55-Cs-136g

57-La-137

Radionuclide Production Cross Section -0.145 To 0.031 %

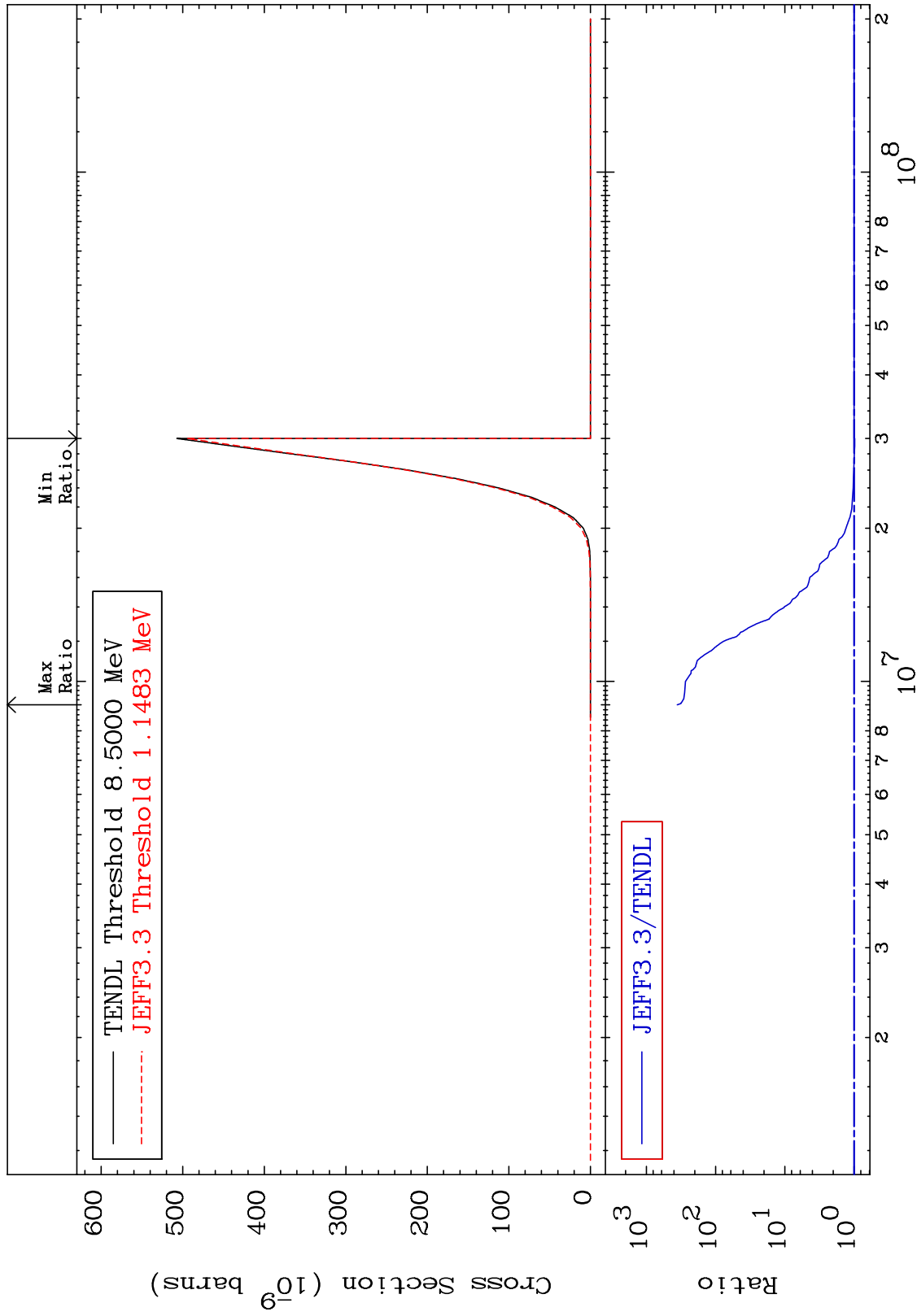


MAT 5722 (n,2p):55-Cs-136m1 57-La-137
 Radionuclide Production Cross Section -0.442 To 0.027 %

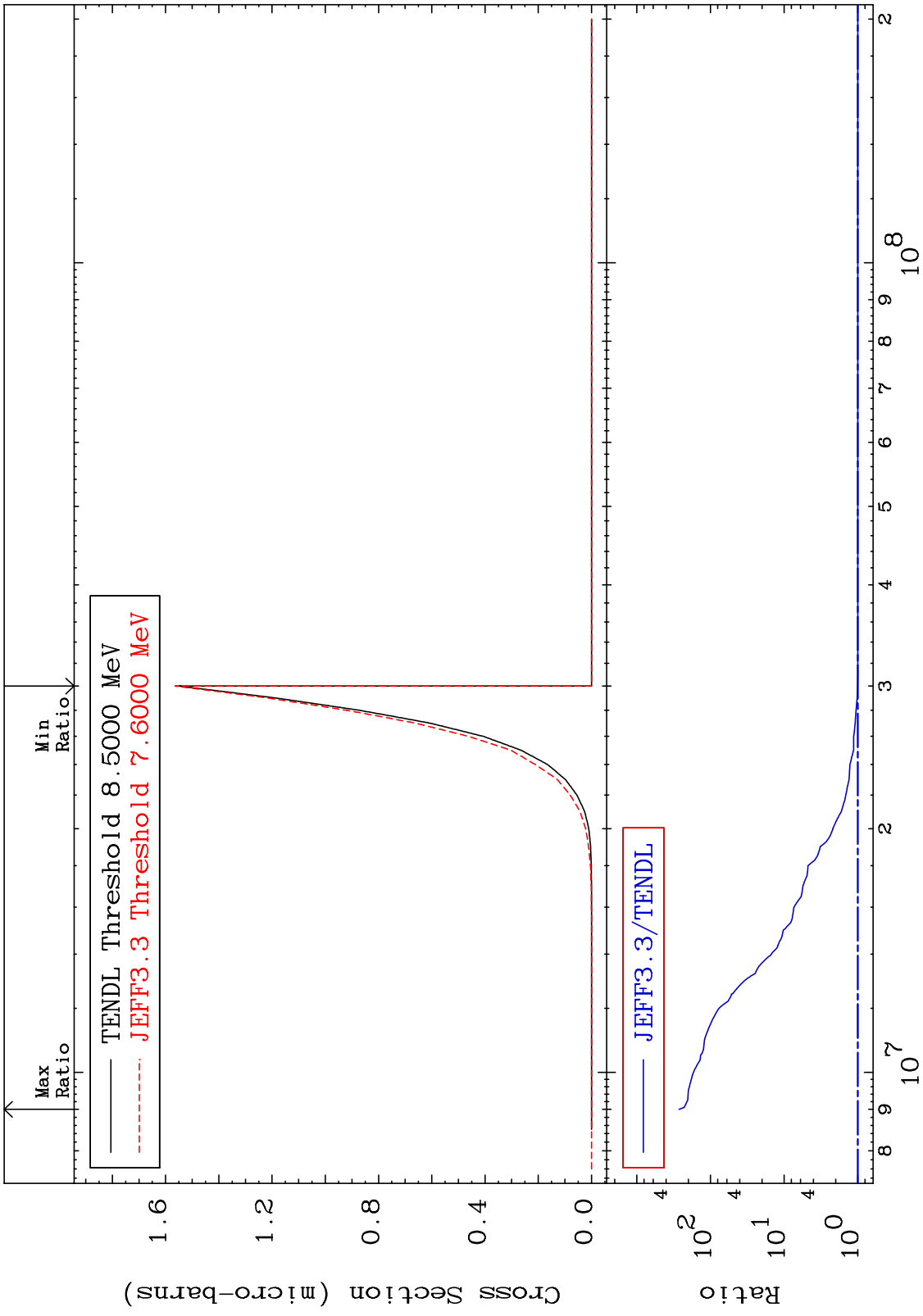


MAT 5722

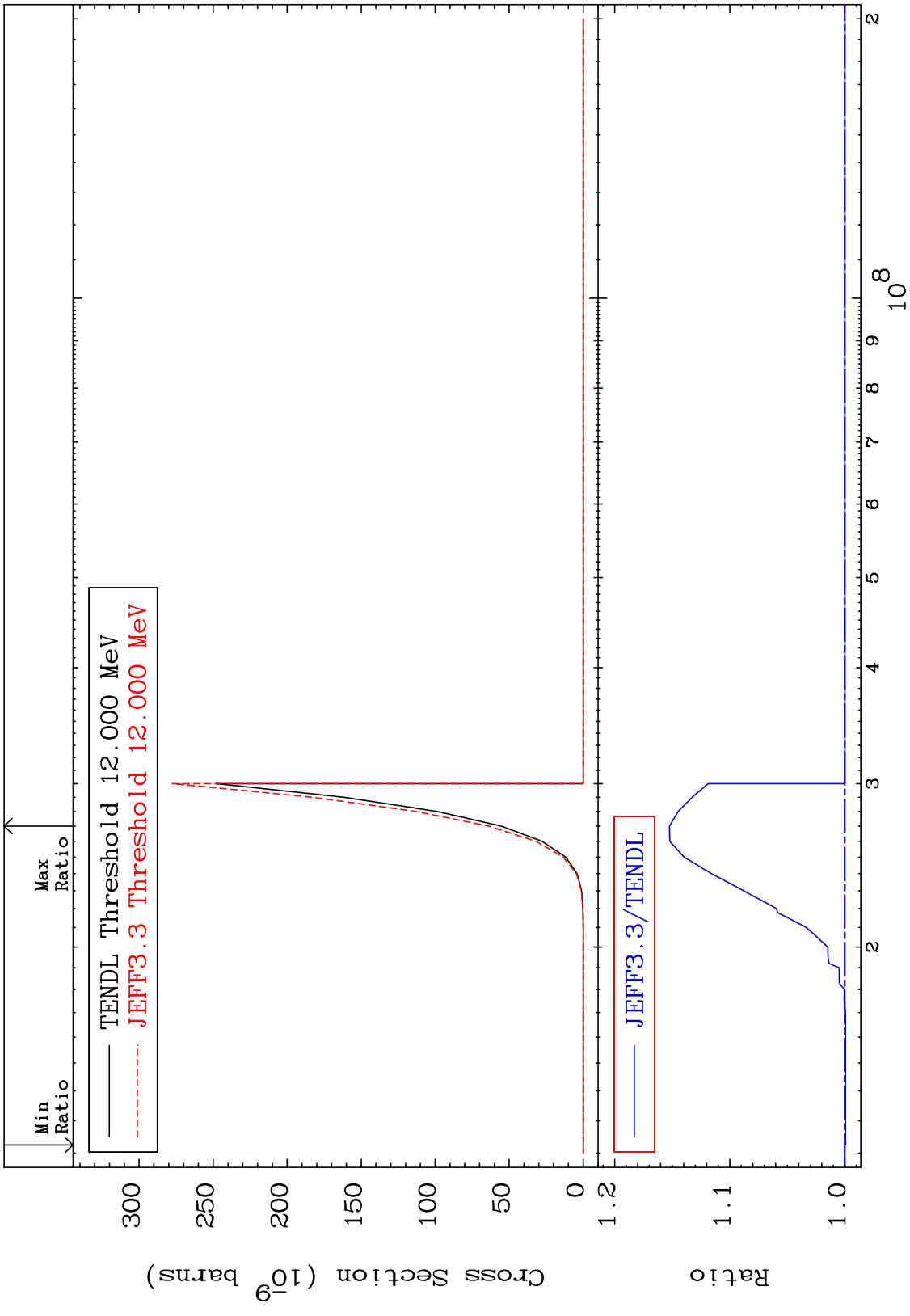
(n,p) α :54-Xe-133g 57-La-137
Radionuclide Production Cross Section -2.421 To 9999. %



MAT 5722 (n,p) α :54-Xe-133m1 57-La-137
 Radionuclide Production Cross Section 0.000 To 9999. %



MAT 5722 (n,p) d:55-Cs-135g 57-La-137
 Radionuclide Production Cross Section -0.081 To 15.24 %

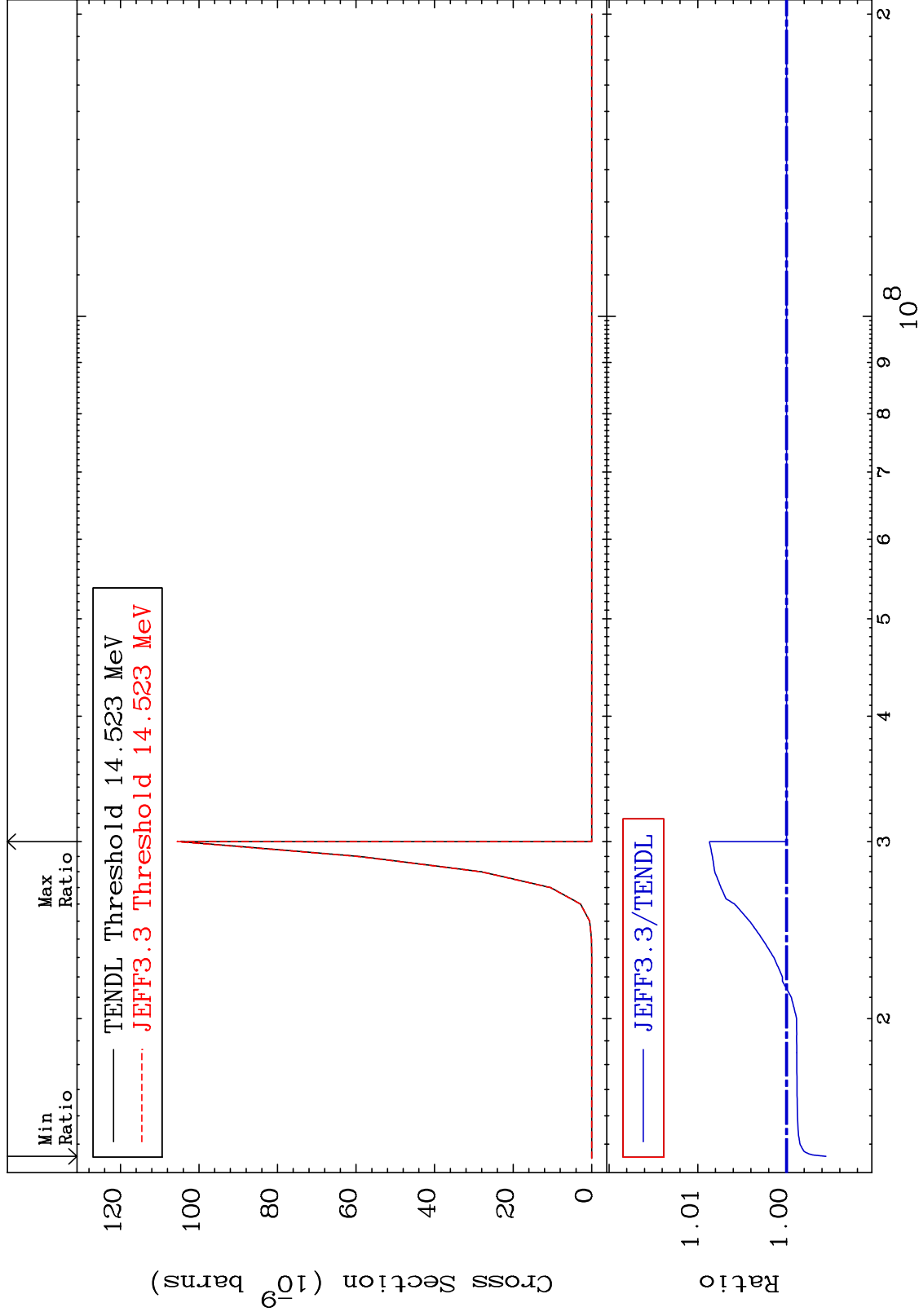


MAT 5722

(n,p) t:55-Cs-134g

57-La-137

Radionuclide Production Cross Section -0.444 To 0.868 %



99

Incident Energy (eV)

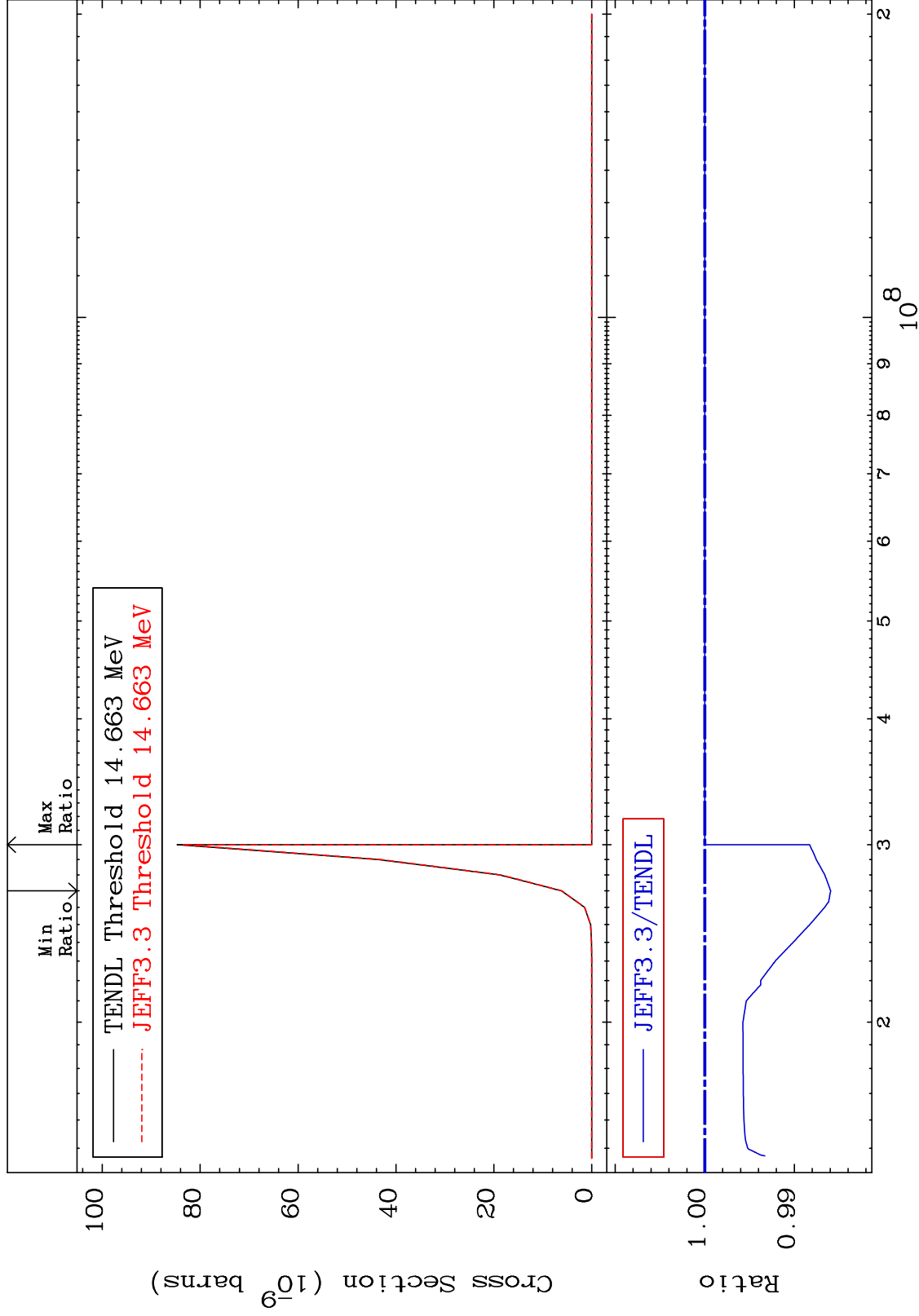
57-La-137

MAT 5722

(n,p) t:55-Cs-134m3

57-La-137

Radionuclide Production Cross Section -1.405 To 0.000 %



100

Incident Energy (eV)

57-La-137