

Program Complot  
(Version 2018-1)

by

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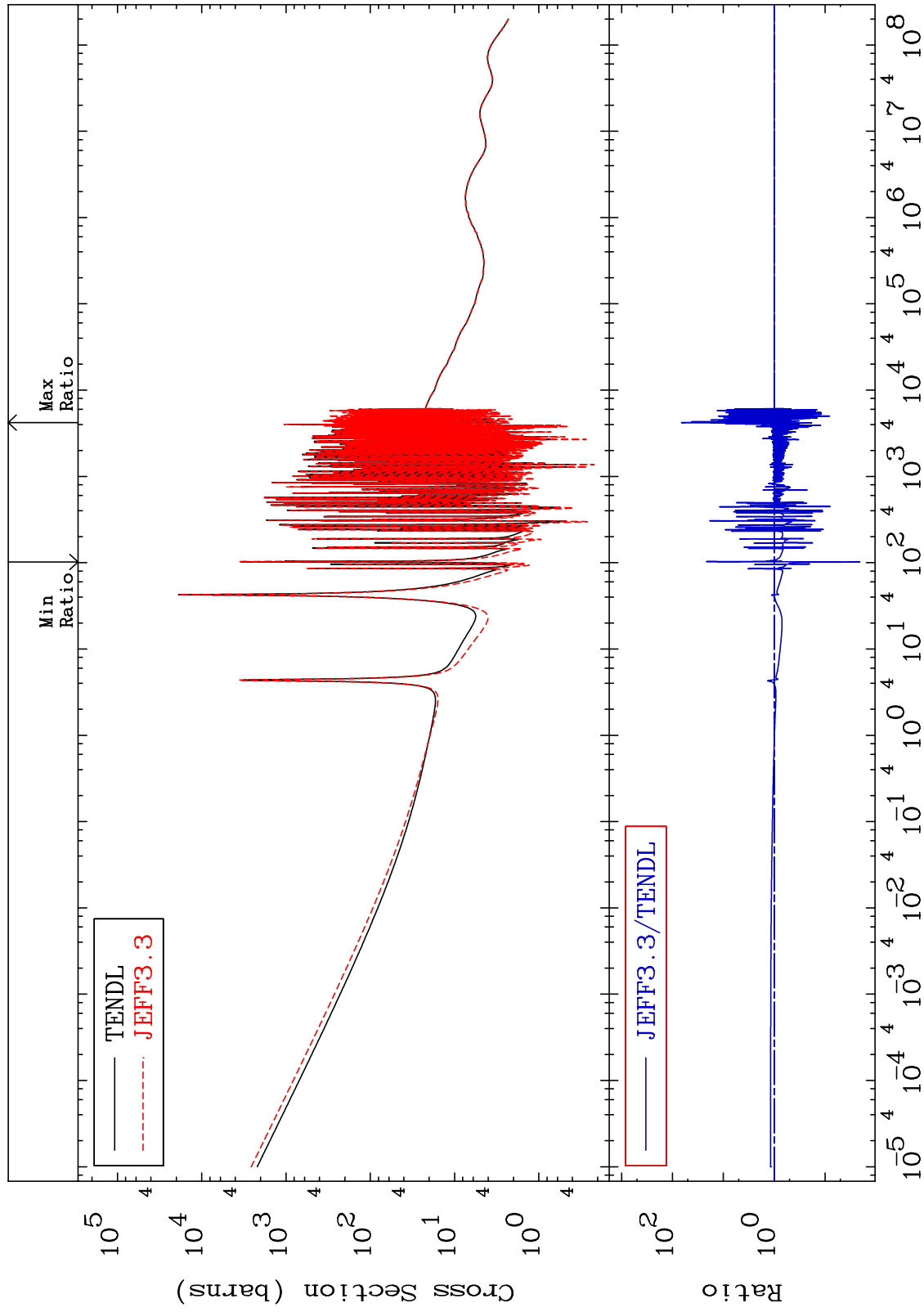
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 6034

Total  
Cross Section

60-Nd-145  
-97.92 To 6554. %

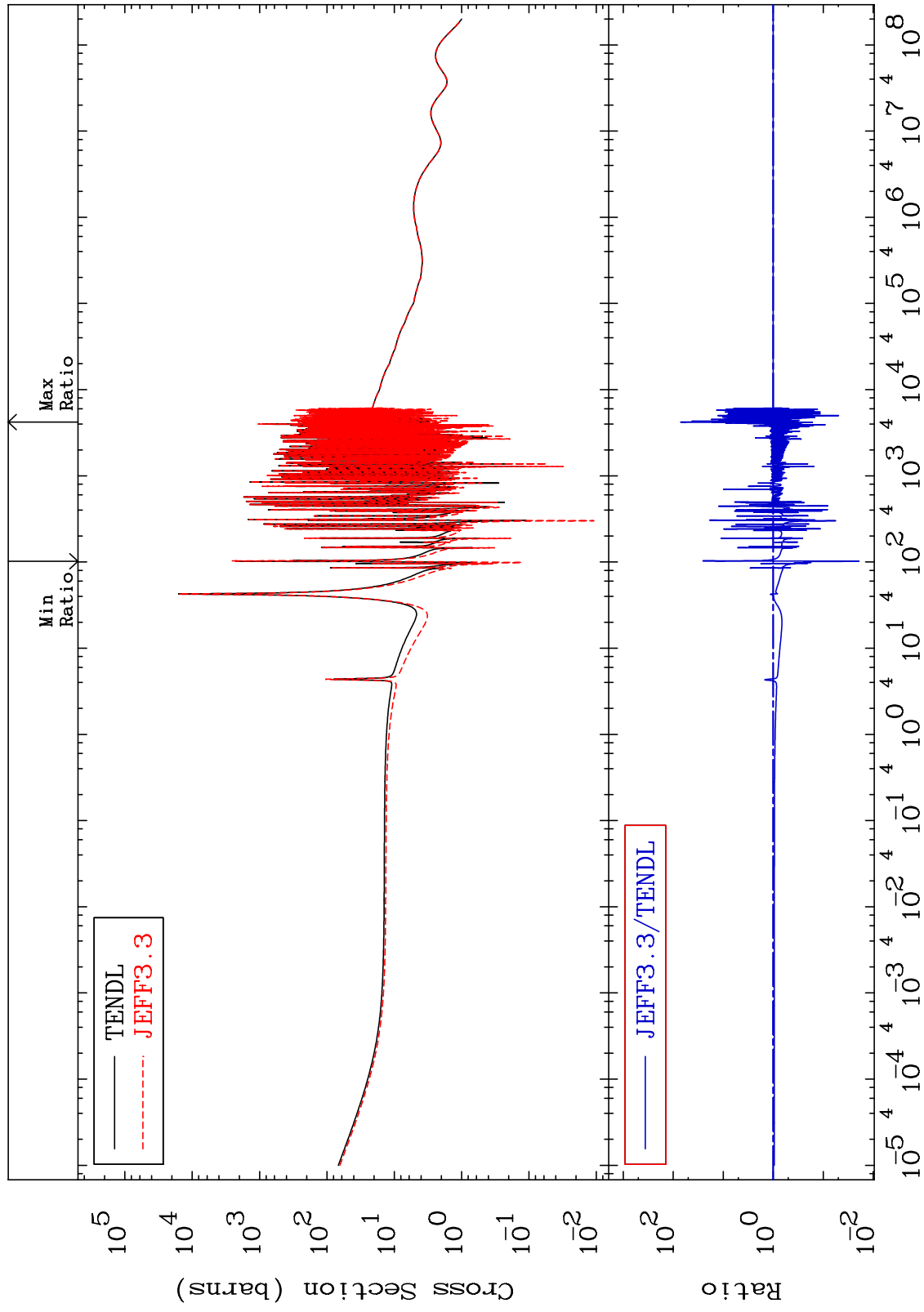


1

Incident Energy (eV)

60-Nd-145

MAT 6034 Elastic Cross Section 60-Nd-145 -98.08 To 6929. %

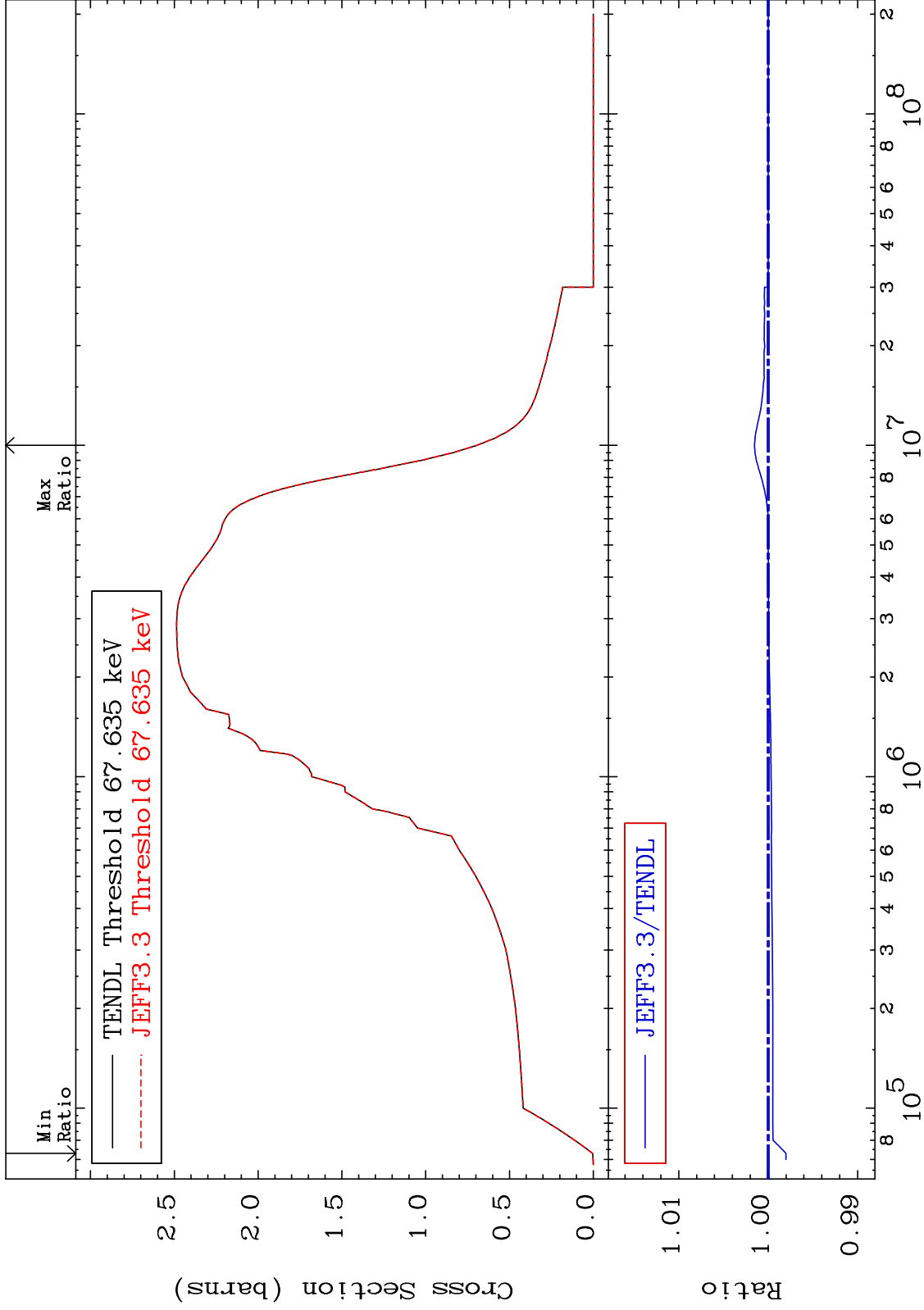


2 60-Nd-145

MAT 6034

Inelastic  
Cross Section

60-Nd-145  
-0.199 To 0.153 %

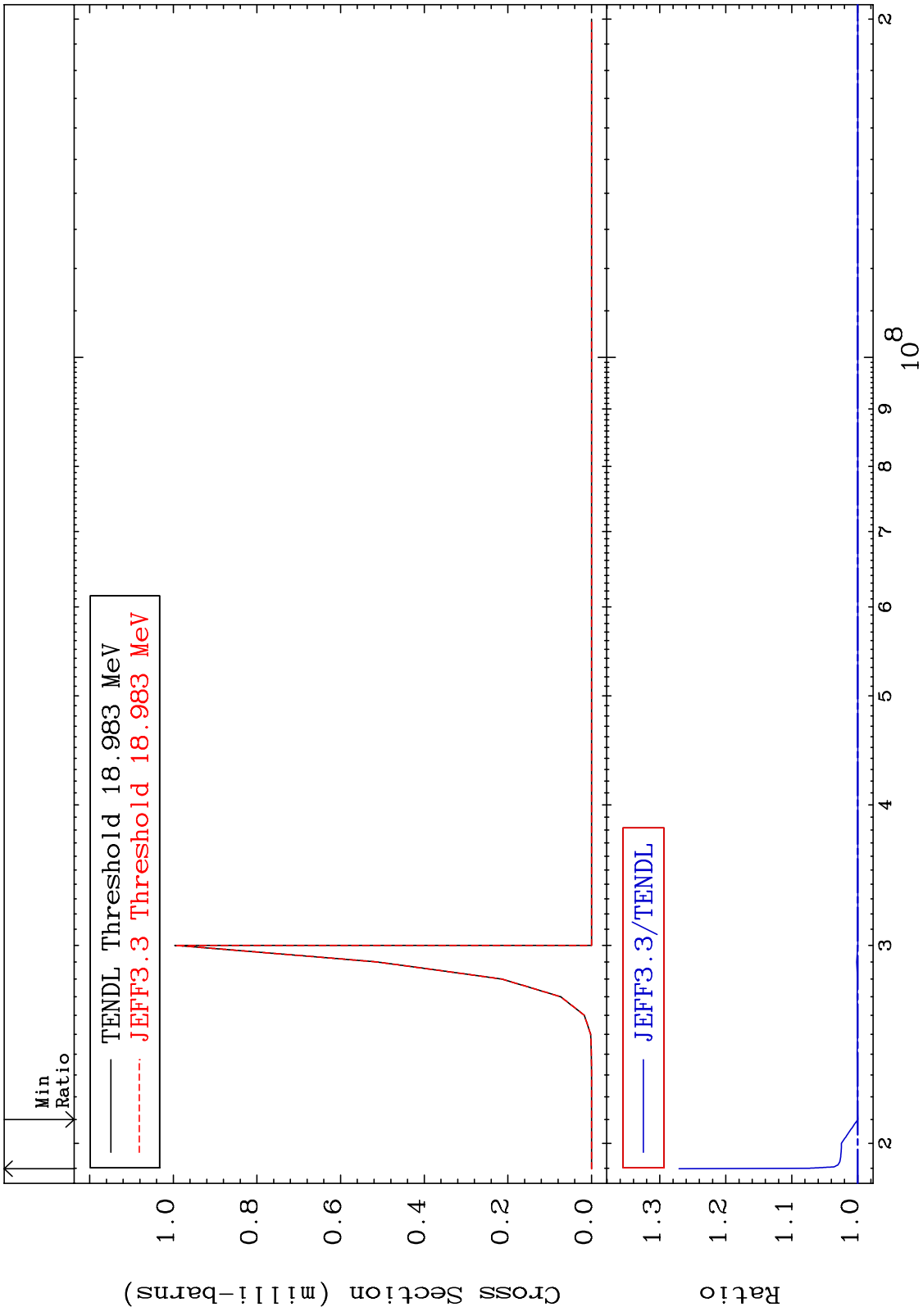


3

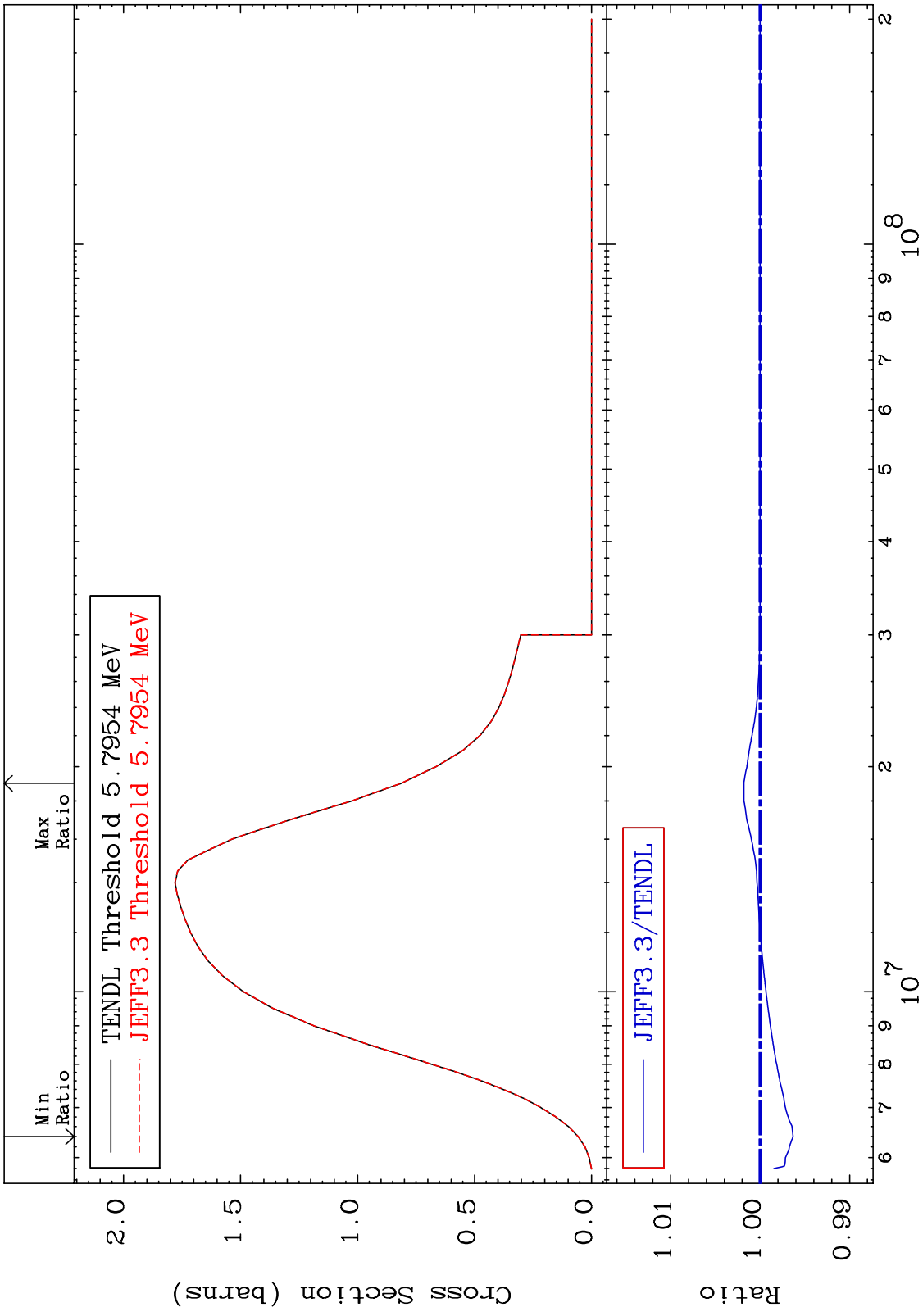
Incident Energy (eV)

60-Nd-145

MAT 6034 (n,2n) d 60-Nd-145  
 Cross Section -0.021 To 27.09 %

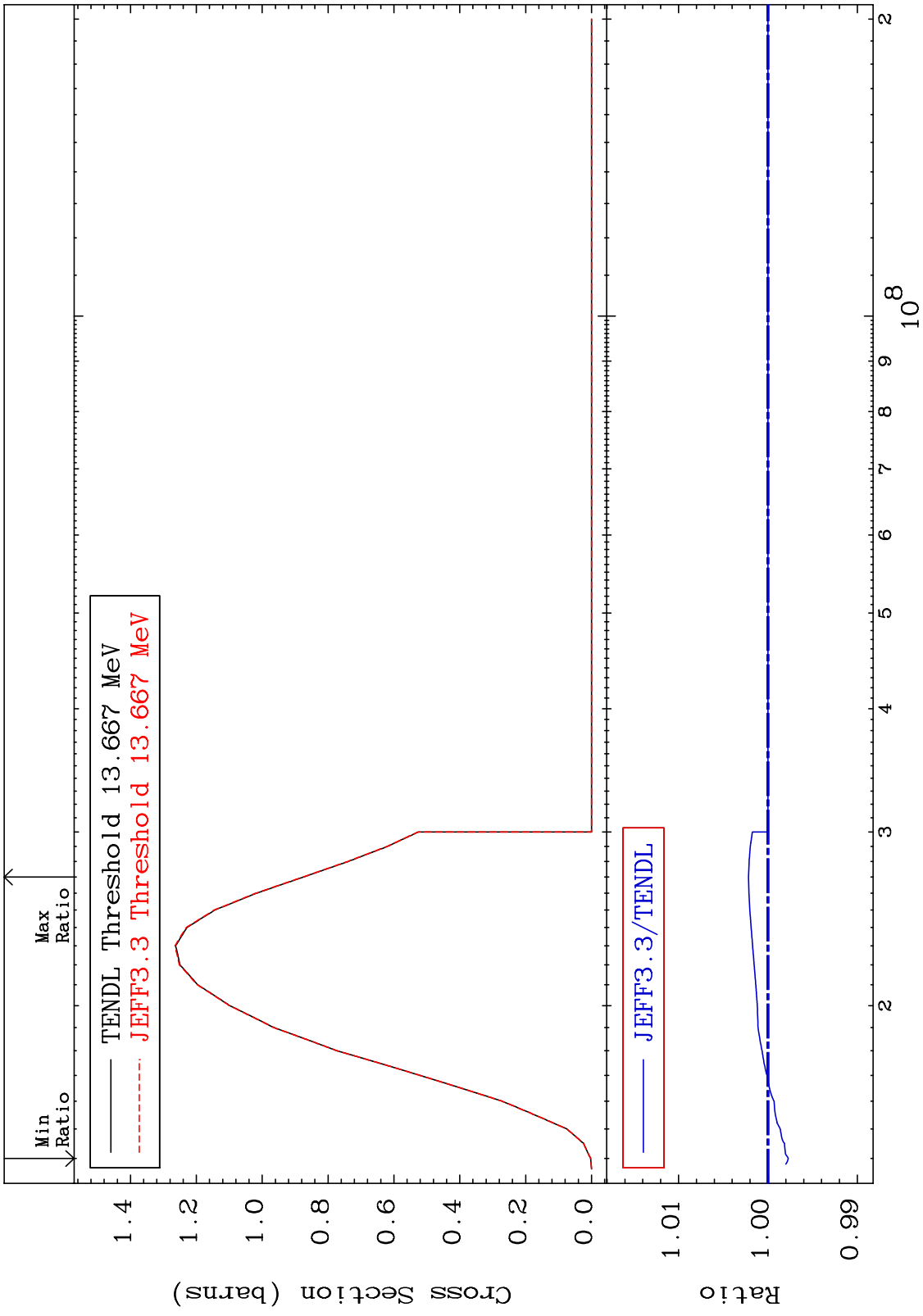


MAT 6034  $(n,2n)$  Cross Section  $^{60}\text{Nd-145}$   $-0.368$  To  $0.182$  %



5  $^{60}\text{Nd-145}$

MAT 6034  $(n, 3n)$  Cross Section  $^{60}\text{Nd-145}$   $-0.228$  To  $0.217$  %



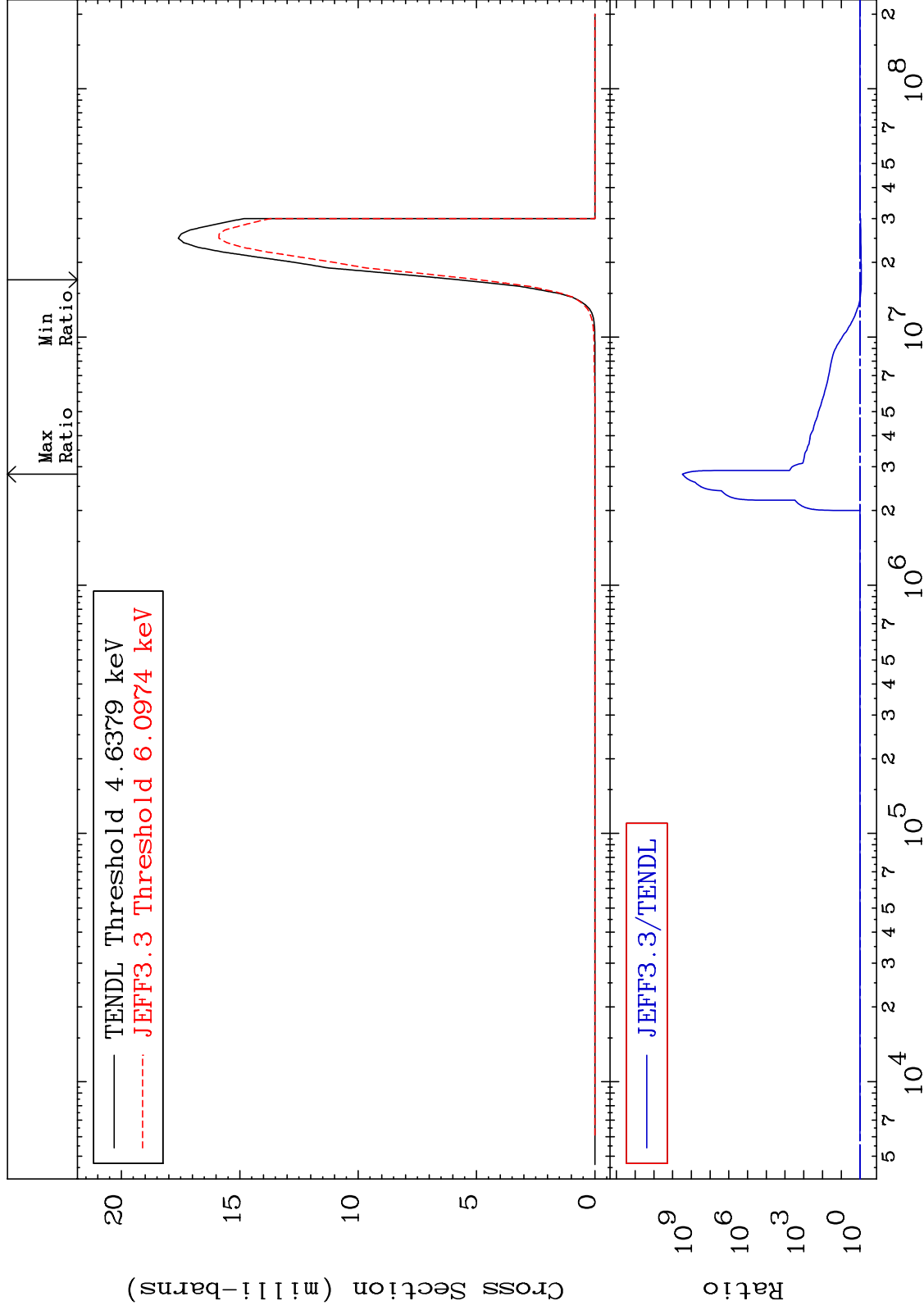
MAT 6034

$(n, n') \alpha$

60-Nd-145

-14.87 To 9999. %

Cross Section

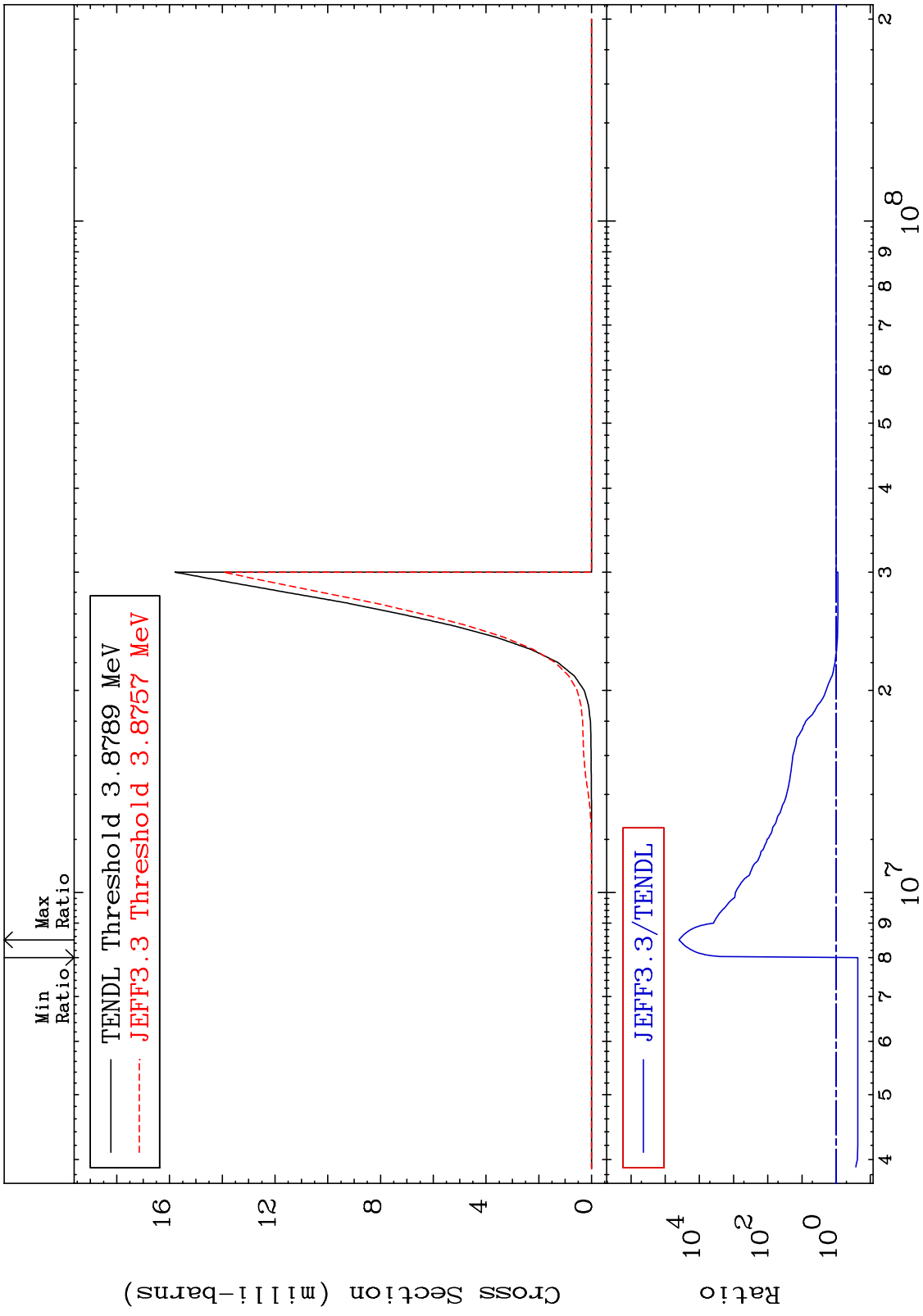


7

Incident Energy (eV)

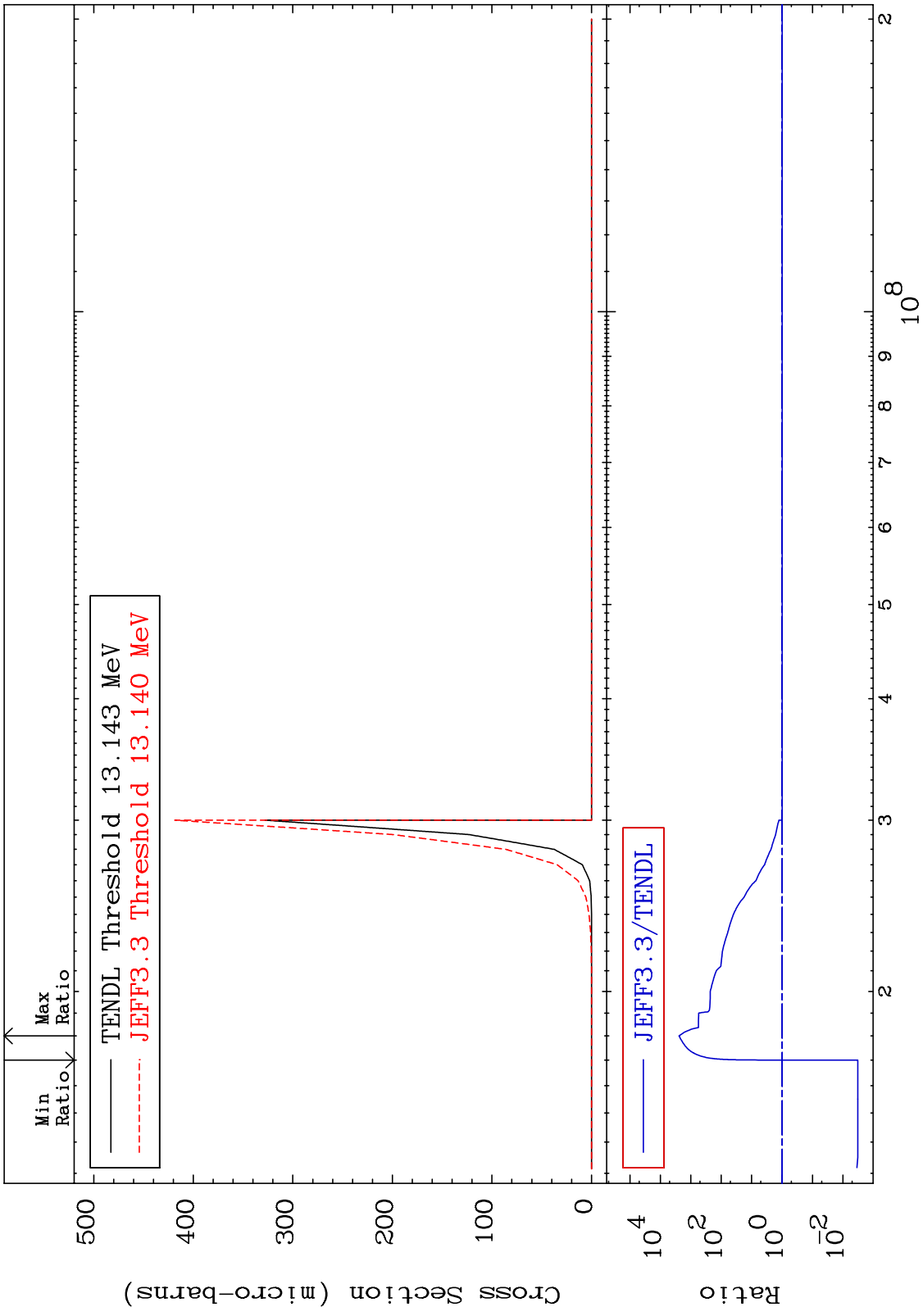
60-Nd-145

MAT 6034  $(n, 2n) \alpha$   $^{60}\text{Nd-145}$   
 Cross Section -76.85 To 9999. %

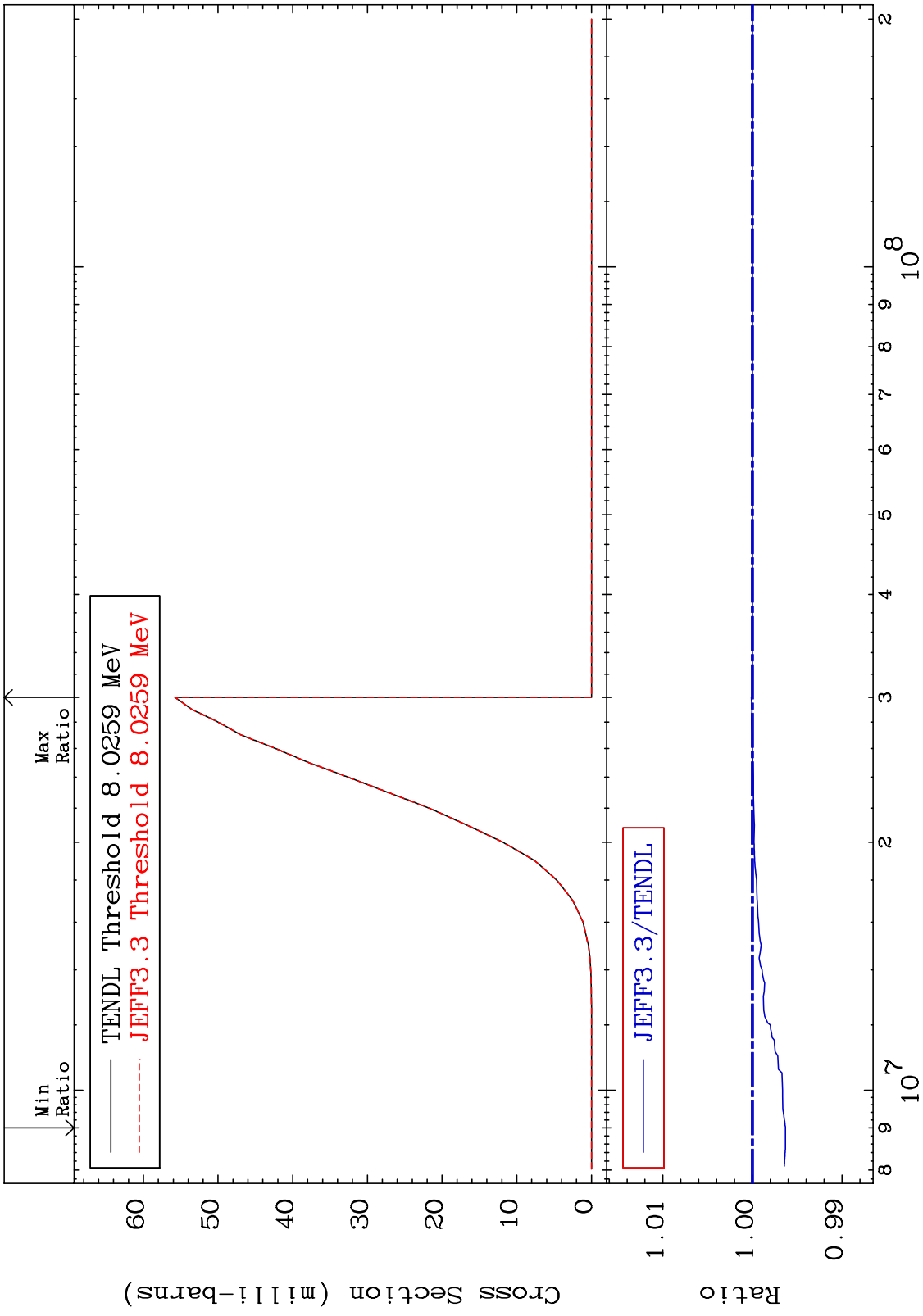


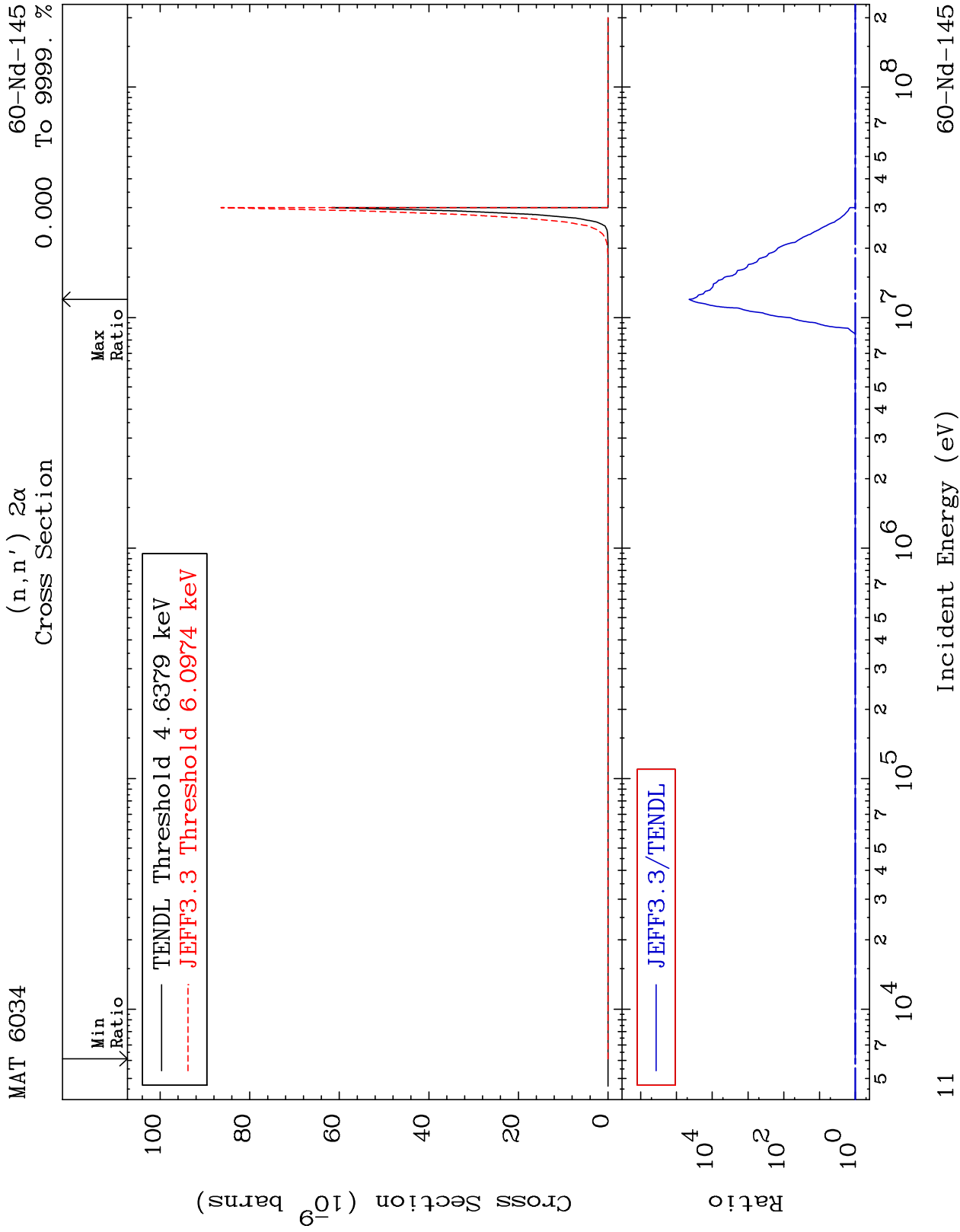
8  $^{60}\text{Nd-145}$

MAT 6034  $(n, 3n) \alpha$   $^{60}\text{Nd-145}$   
 Cross Section -99.68 To 9999. %

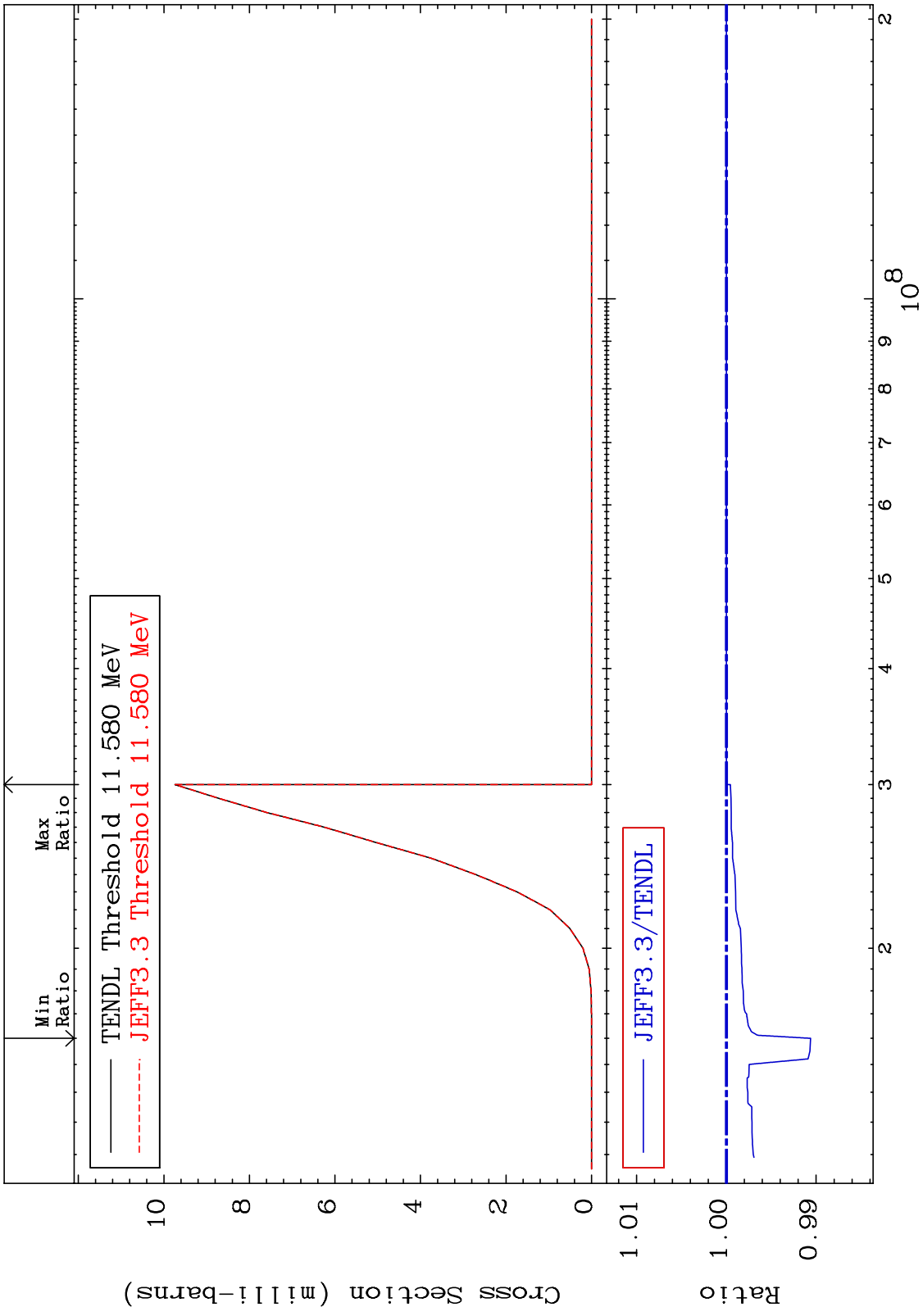


MAT 6034  $(n, n')$  p  $^{60}\text{Nd-145}$   
Cross Section  $-0.369$  To  $0.012$  %

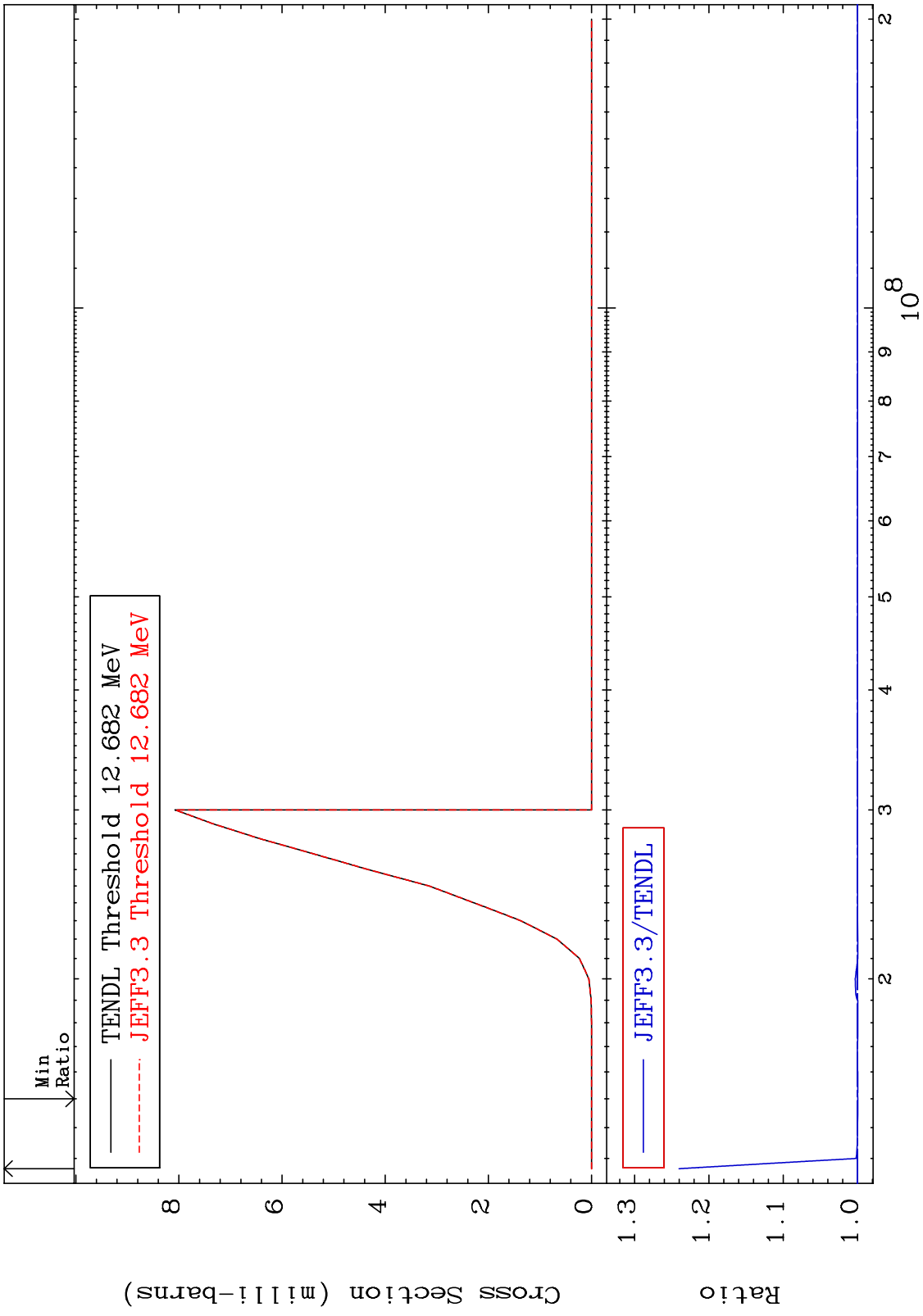




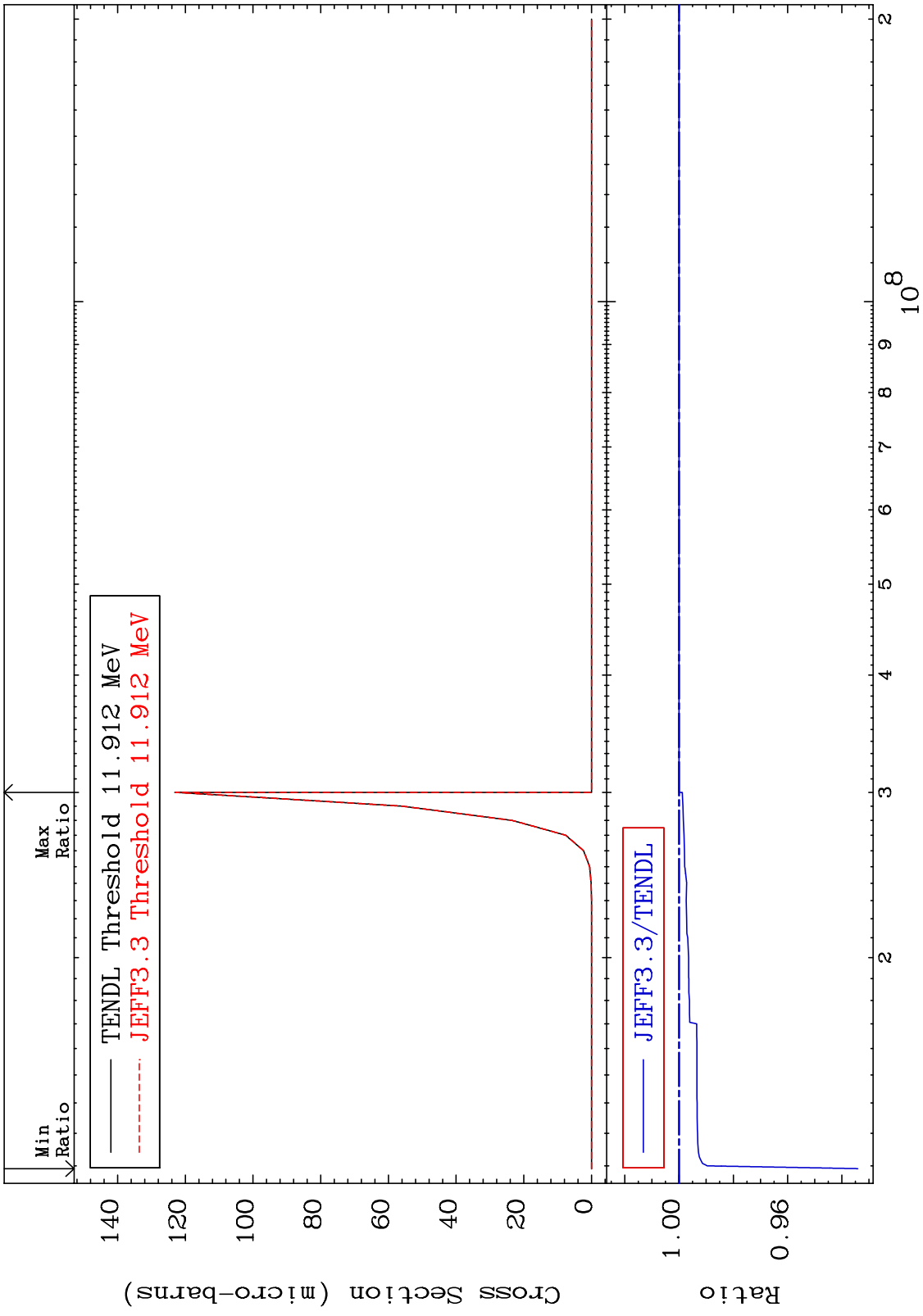
MAT 6034  $(n, n')$  d  $^{60}\text{Nd-145}$   
 Cross Section  $-0.938$  To  $0.000$  %



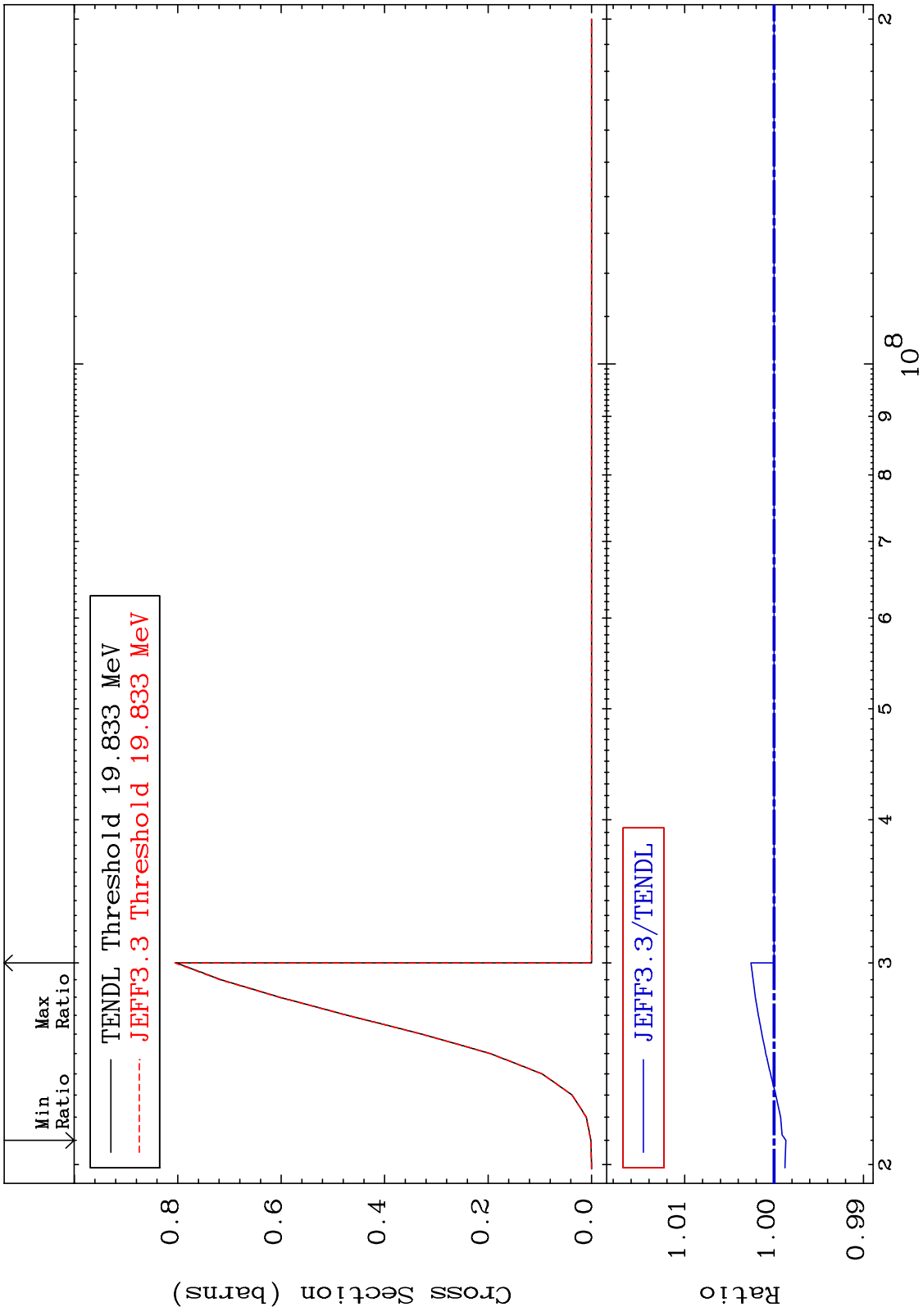
MAT 6034 (n,n') t 60-Nd-145  
 Cross Section -0.049 To 24.02 %



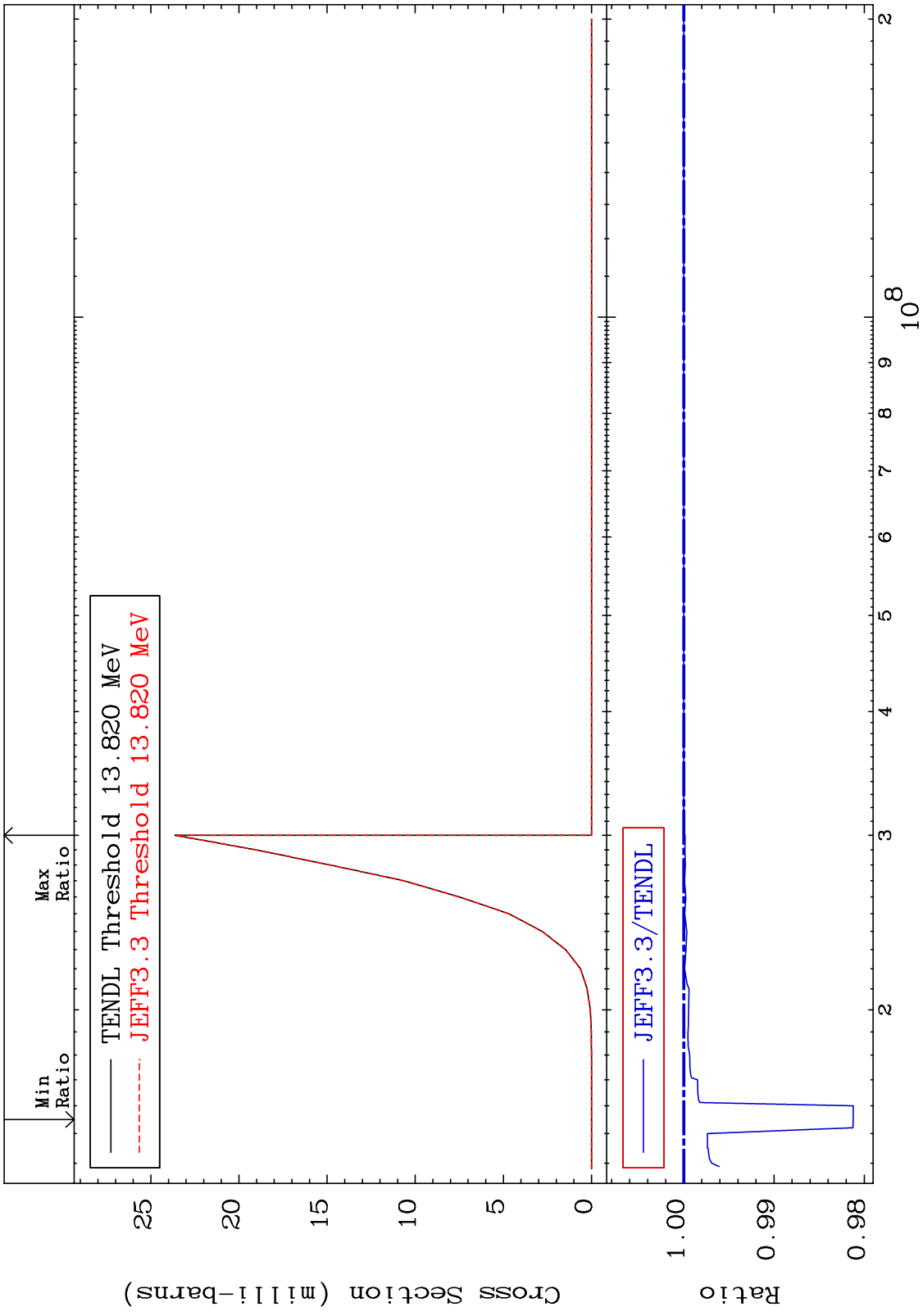
MAT 6034 (n, n') He-3 Cross Section 60-Nd-145 -6.591 To 0.000 %



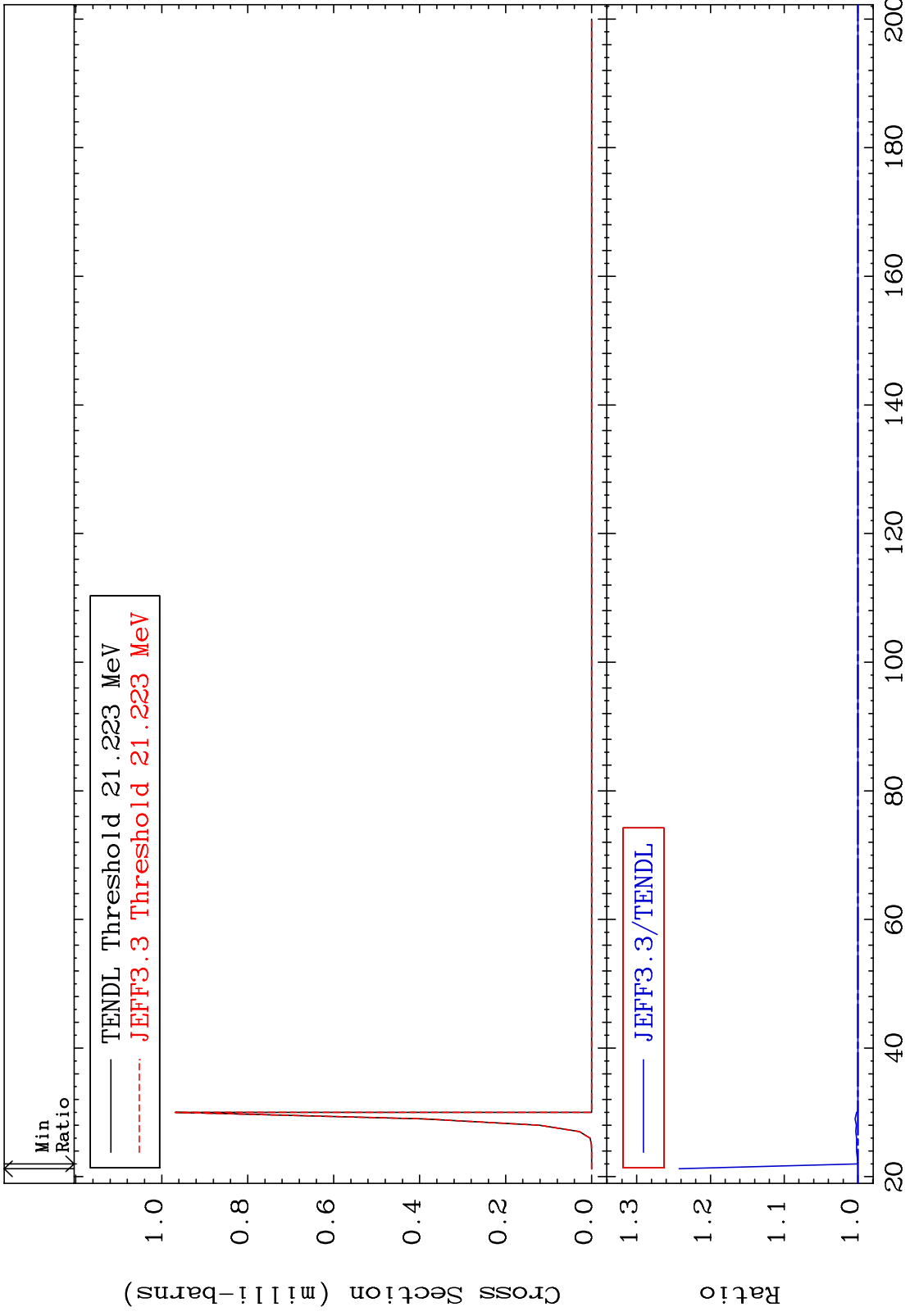
MAT 6034  $(n,4n)$  Cross Section  $^{60}\text{Nd-145}$  -0.133 To 0.259 %



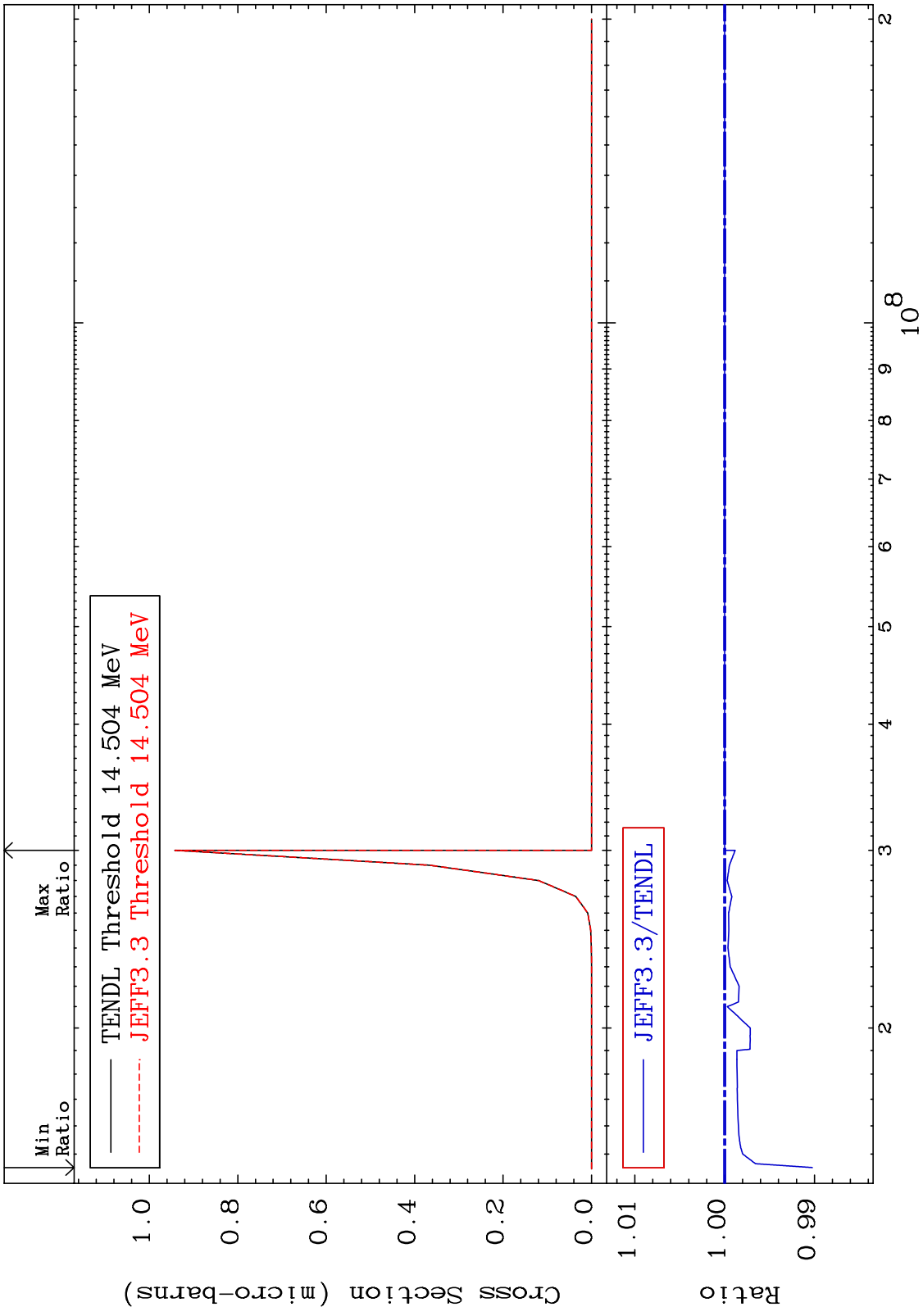
MAT 6034 (n,2n) p 60-Nd-145  
 Cross Section -1.877 To 0.000 %



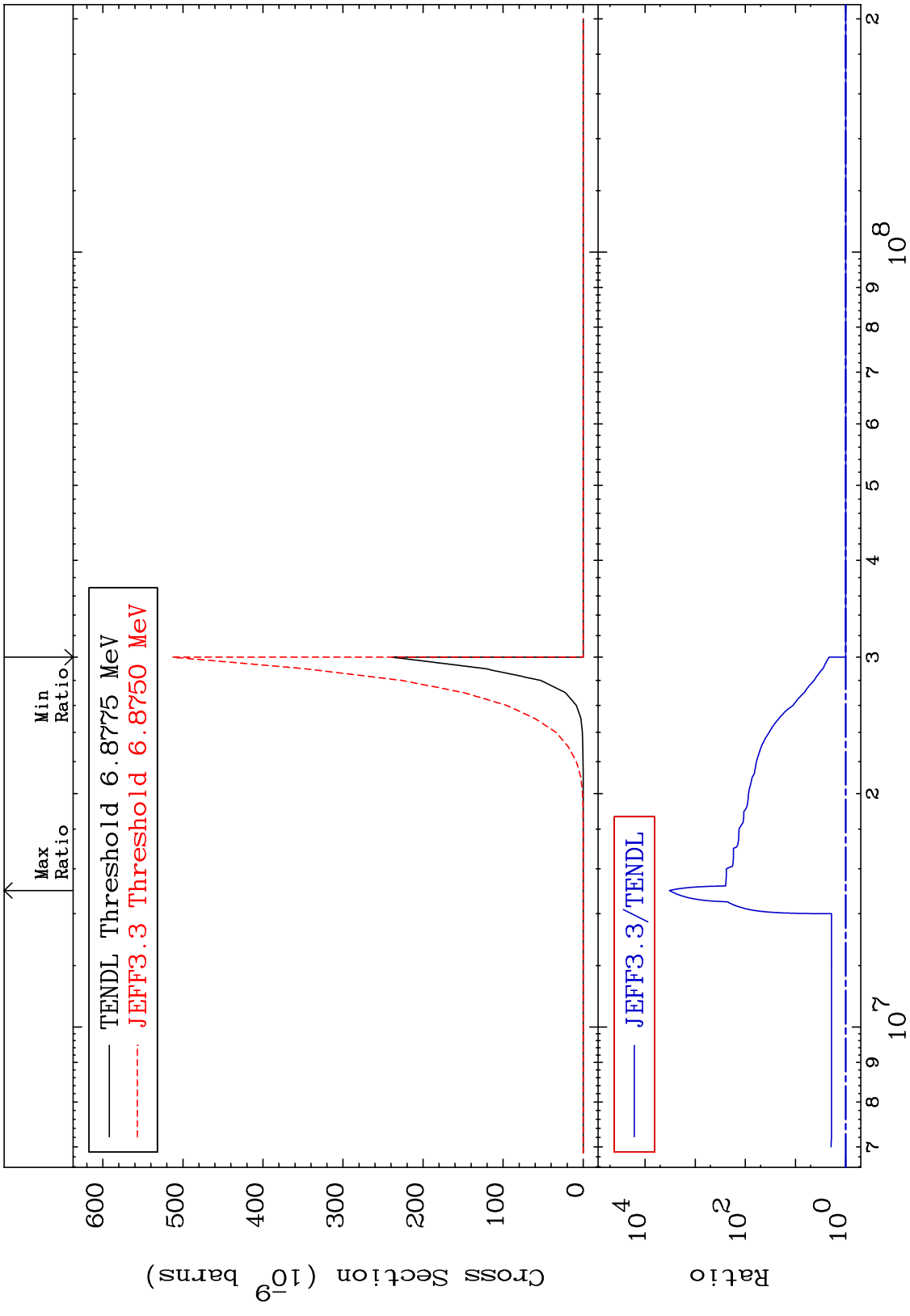
MAT 6034 (n,3n) p 60-Nd-145  
Cross Section -0.003 To 24.25 %



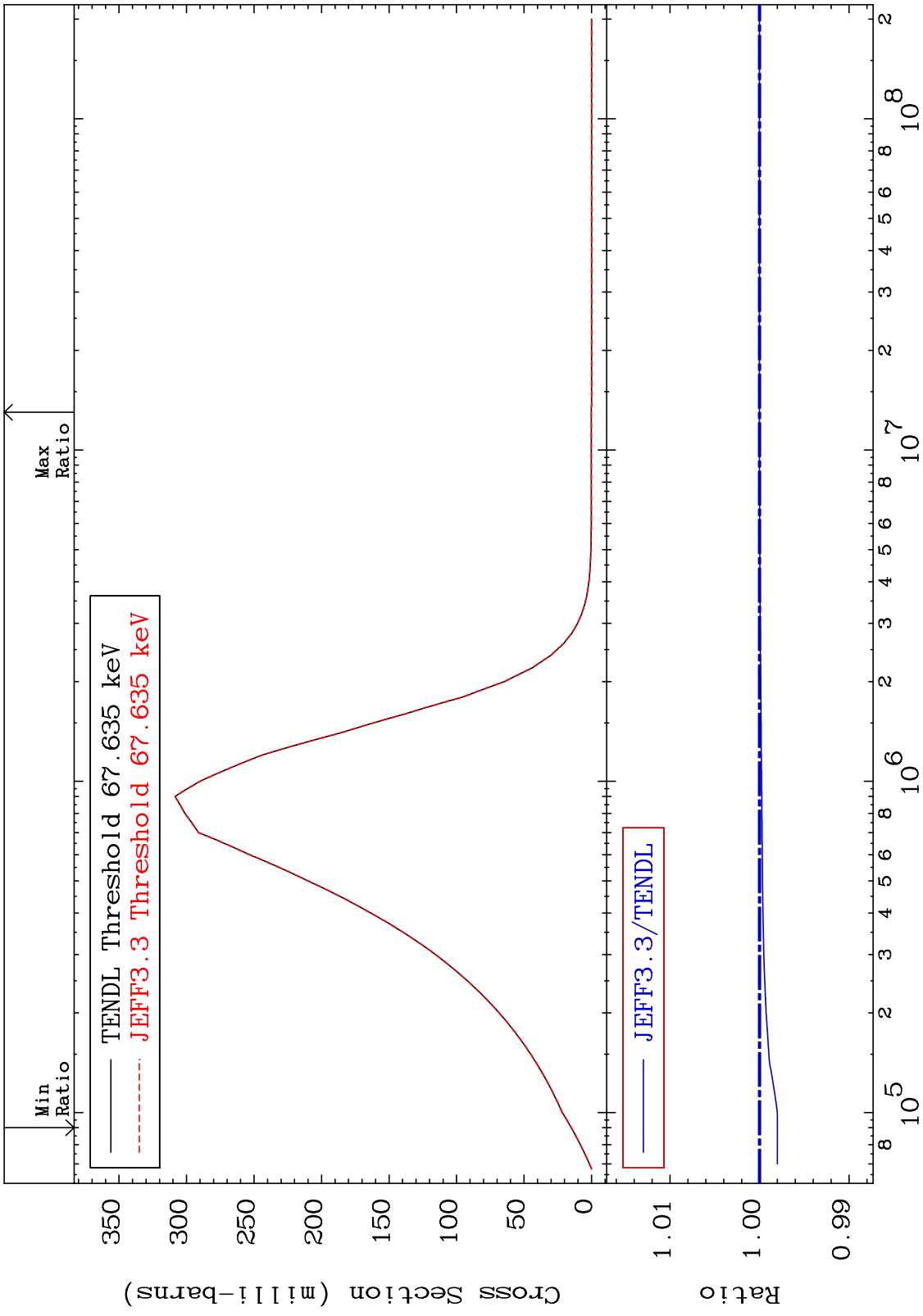
MAT 6034 60-Nd-145  
 (n,2n) p -0.975 To 0.000 %  
 Cross Section



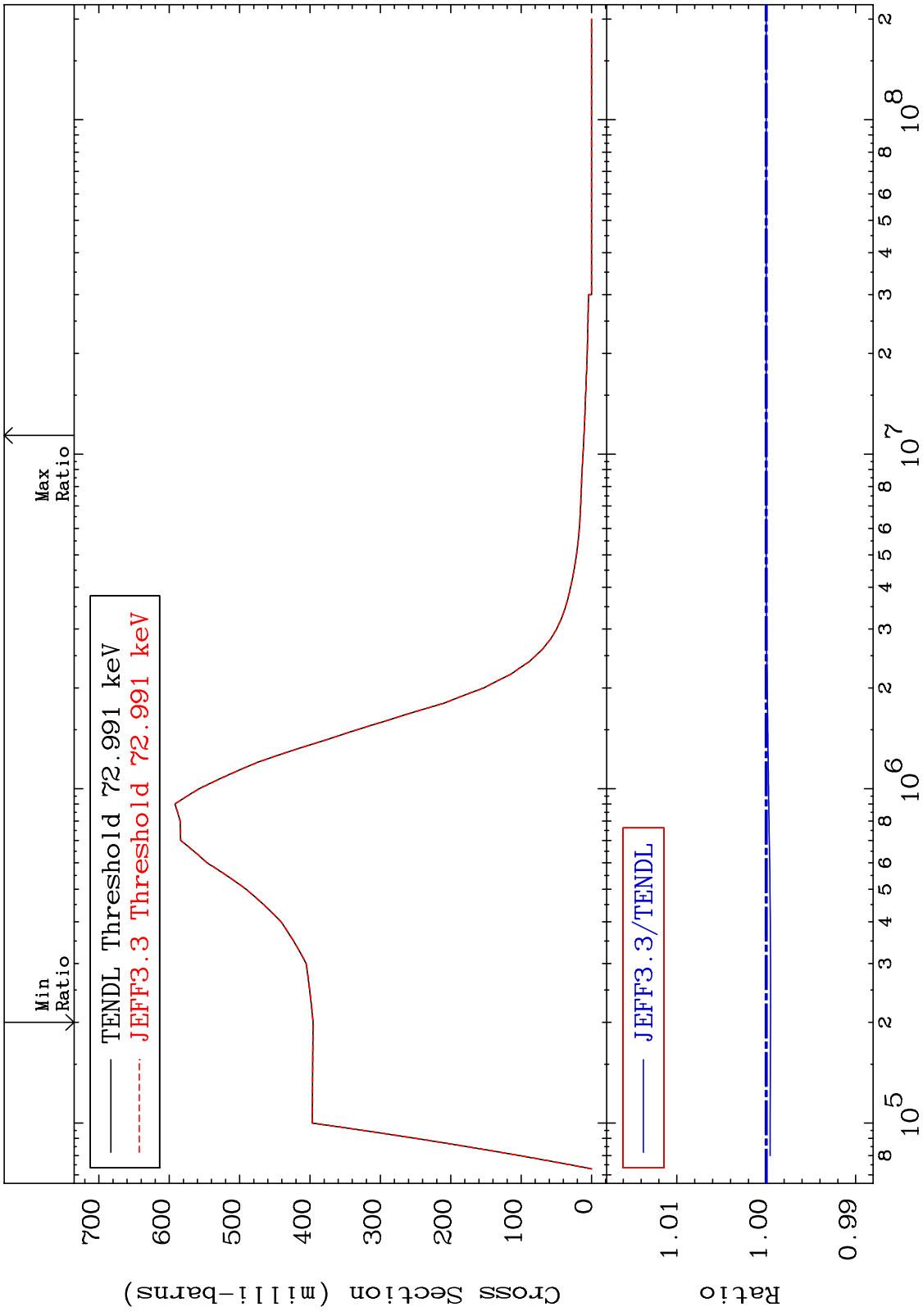
MAT 6034 60-Nd-145  
To 9999. %  
0.000  
(n,n') p α  
Cross Section



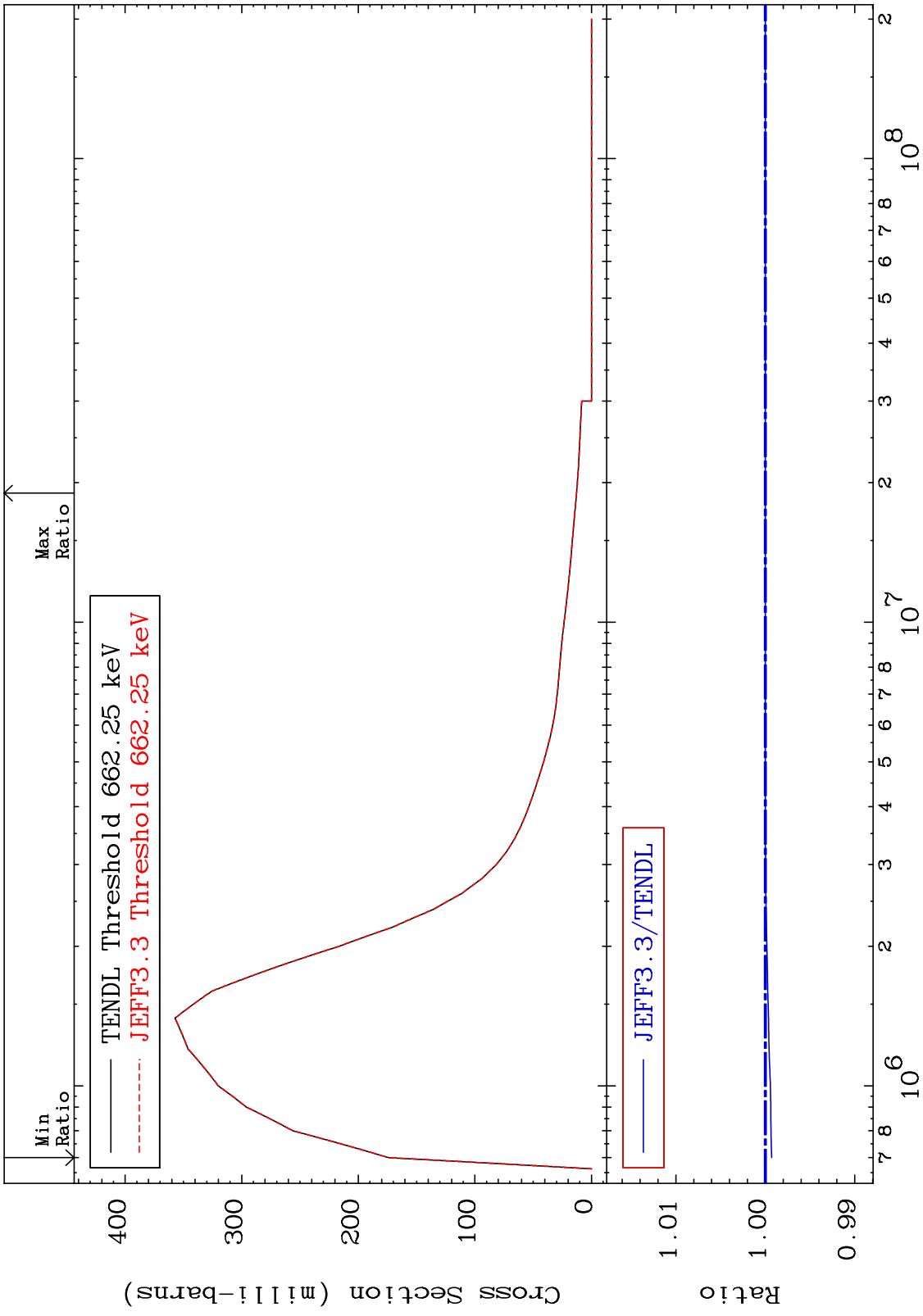
MAT 6034 MT= 51 (n,n') Level Cross Section 60-Nd-145  
-0.199 To 0.000 %



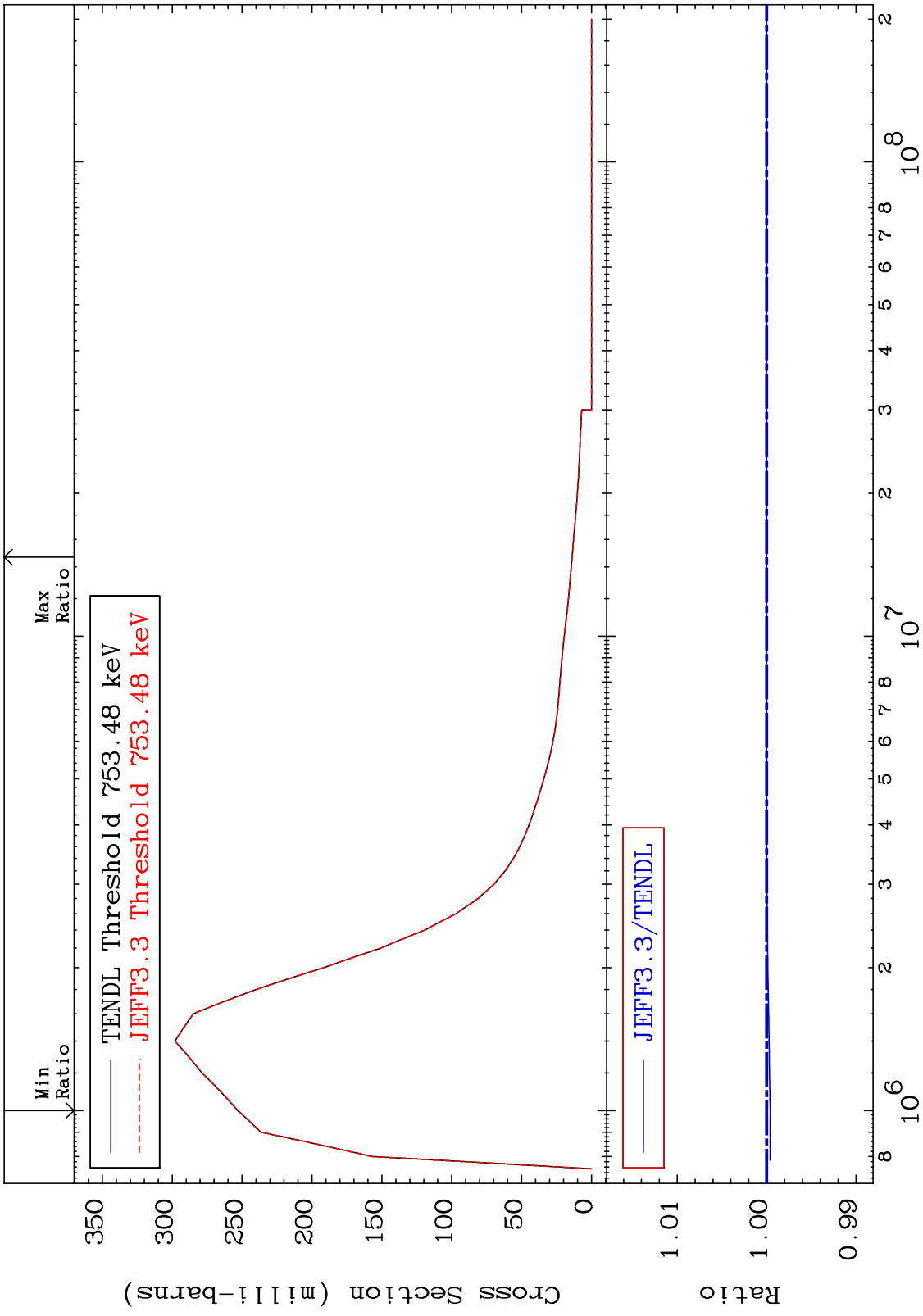
MAT 6034 MT= 52 (n,n') Level Cross Section 60-Nd-145  
 -0.049 To 0.000 %



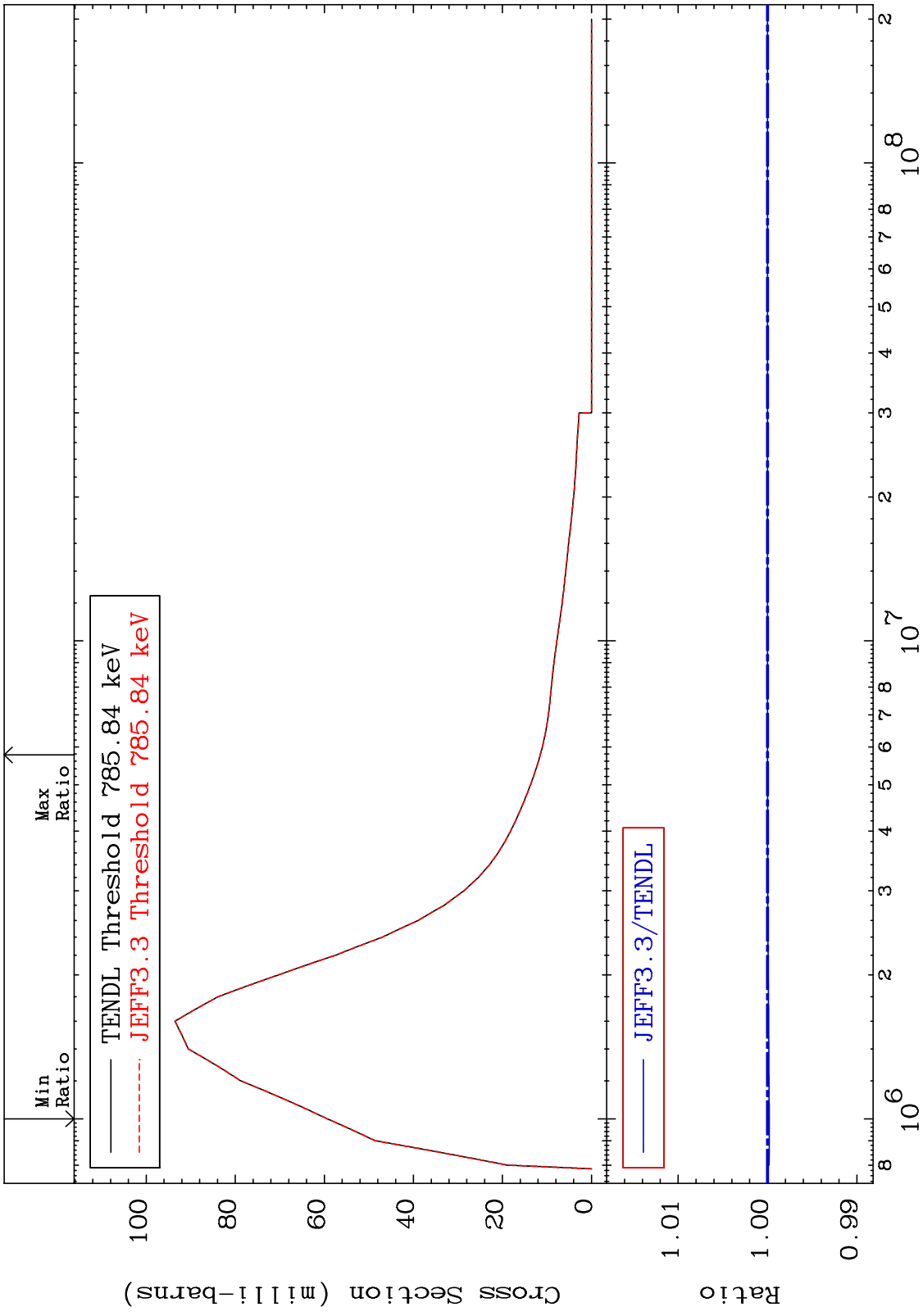
MAT 6034 MT= 53 (n,n') Level Cross Section 60-Nd-145  
 -0.070 To 0.000 %



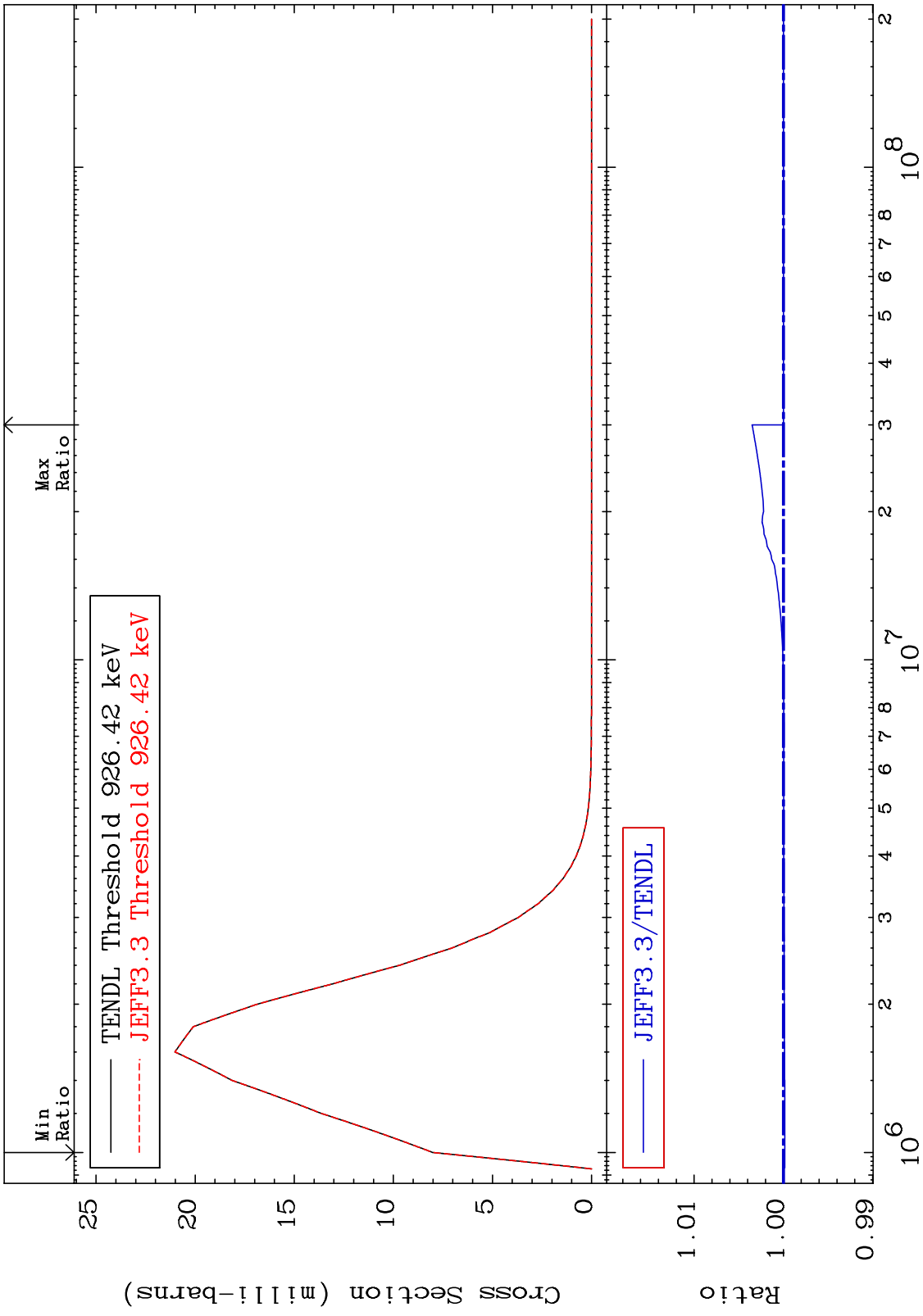
MAT 6034 MT= 54 (n, n') Level Cross Section 60-Nd-145  
 -0.040 To 0.000 %



MAT 6034 MT= 55 (n,n') Level Cross Section 60-Nd-145  
 -0.020 To 0.000 %

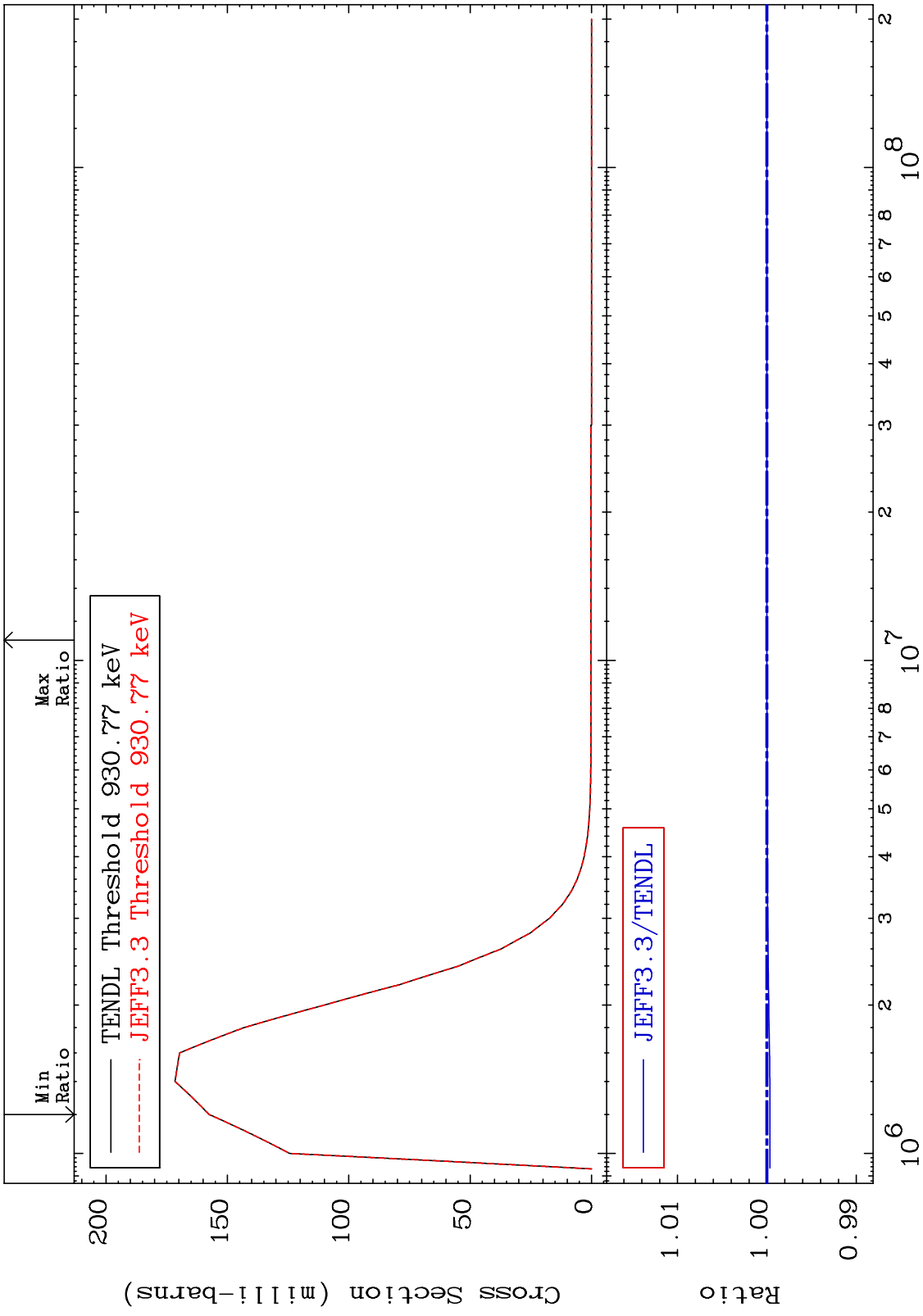


MAT 6034 MT= 56 (n,n') Level Cross Section 60-Nd-145  
-0.016 To 0.351 %

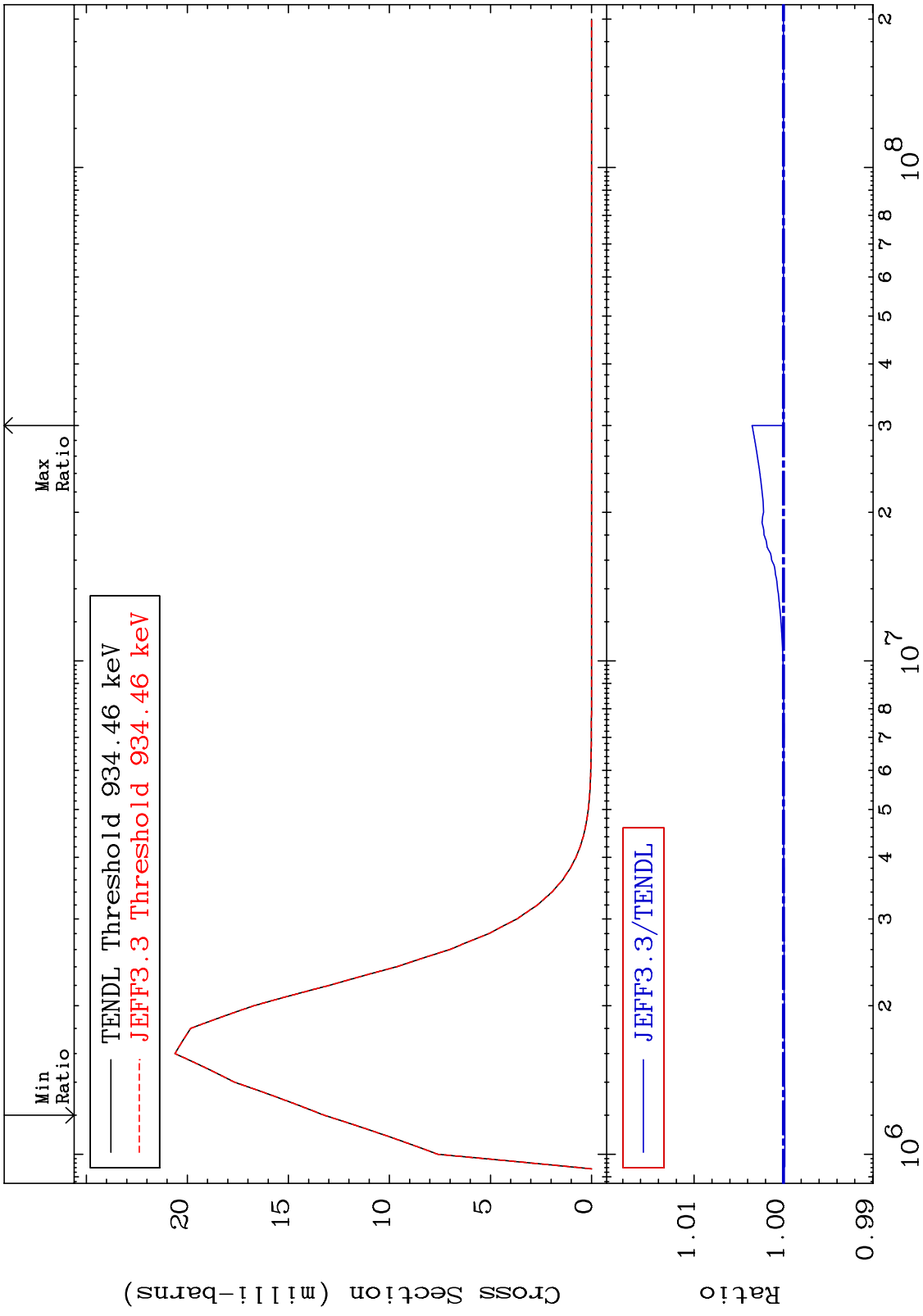


25 60-Nd-145

MAT 6034 MT= 57 (n,n') Level Cross Section 60-Nd-145  
-0.034 To 0.000 %

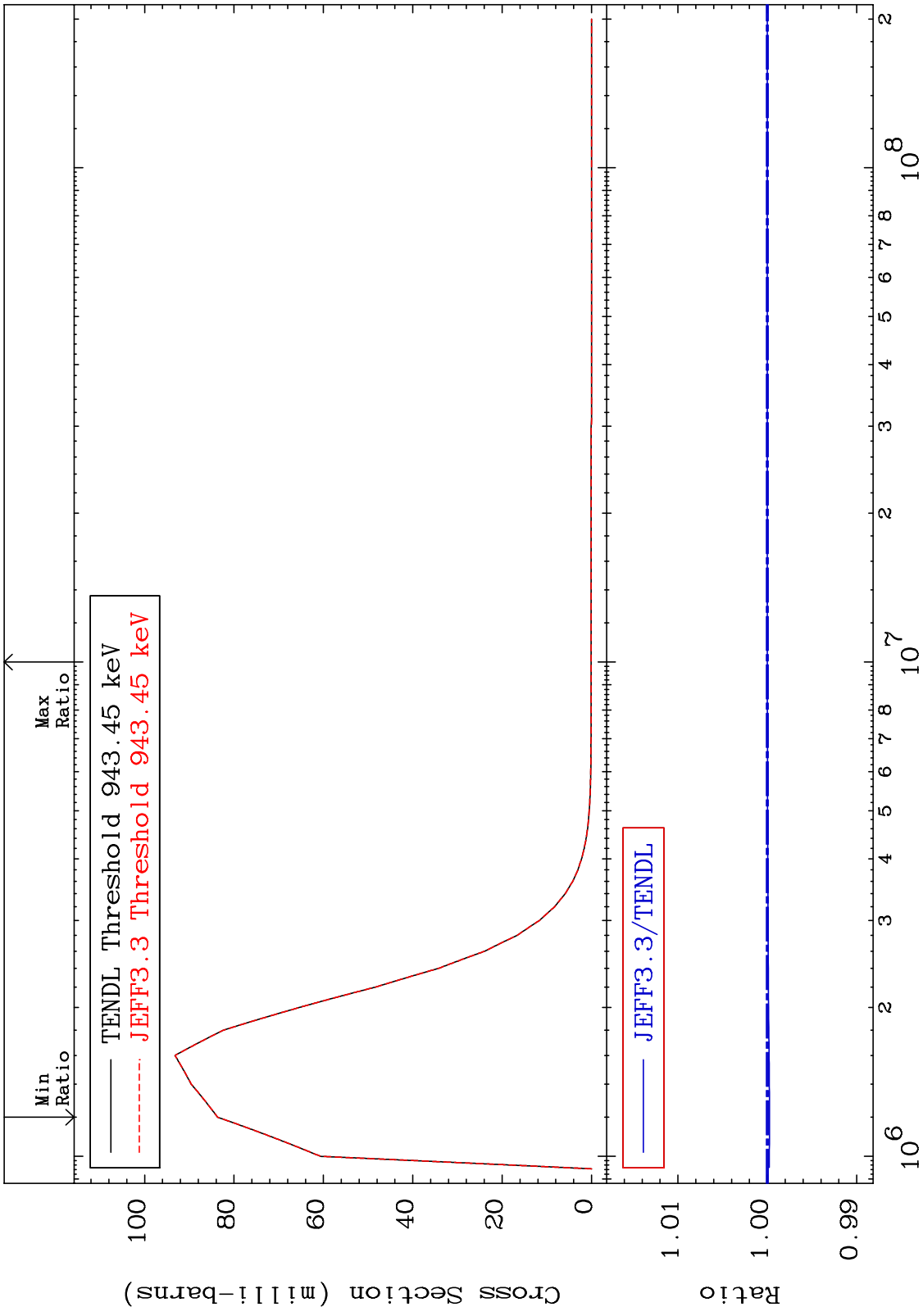


MAT 6034 MT= 58 (n,n') Level Cross Section 60-Nd-145  
-0.016 To 0.351 %



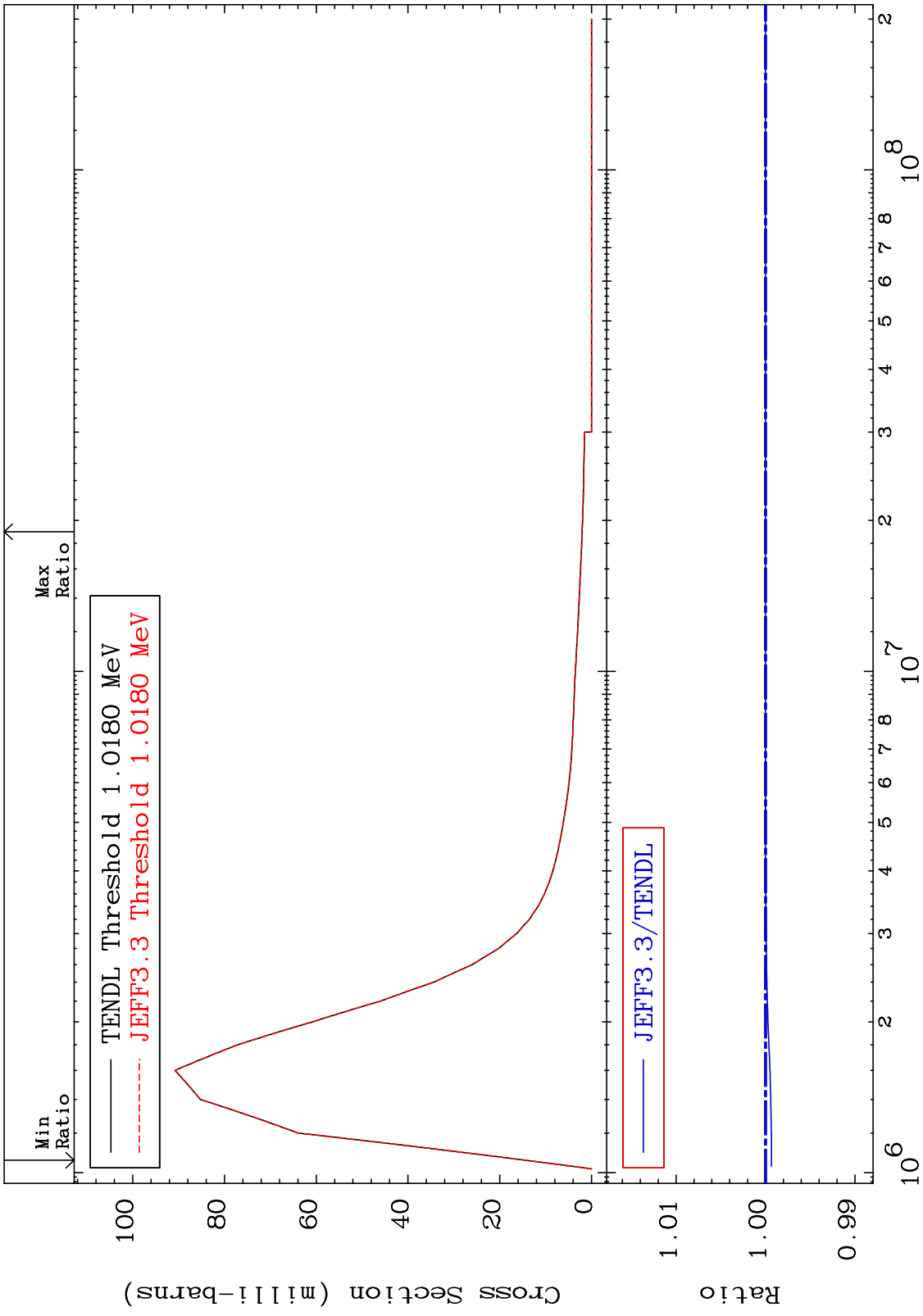
27 Incident Energy (eV) 60-Nd-145

MAT 6034 MT= 59 (n,n') Level Cross Section 60-Nd-145  
 -0.025 To 0.000 %

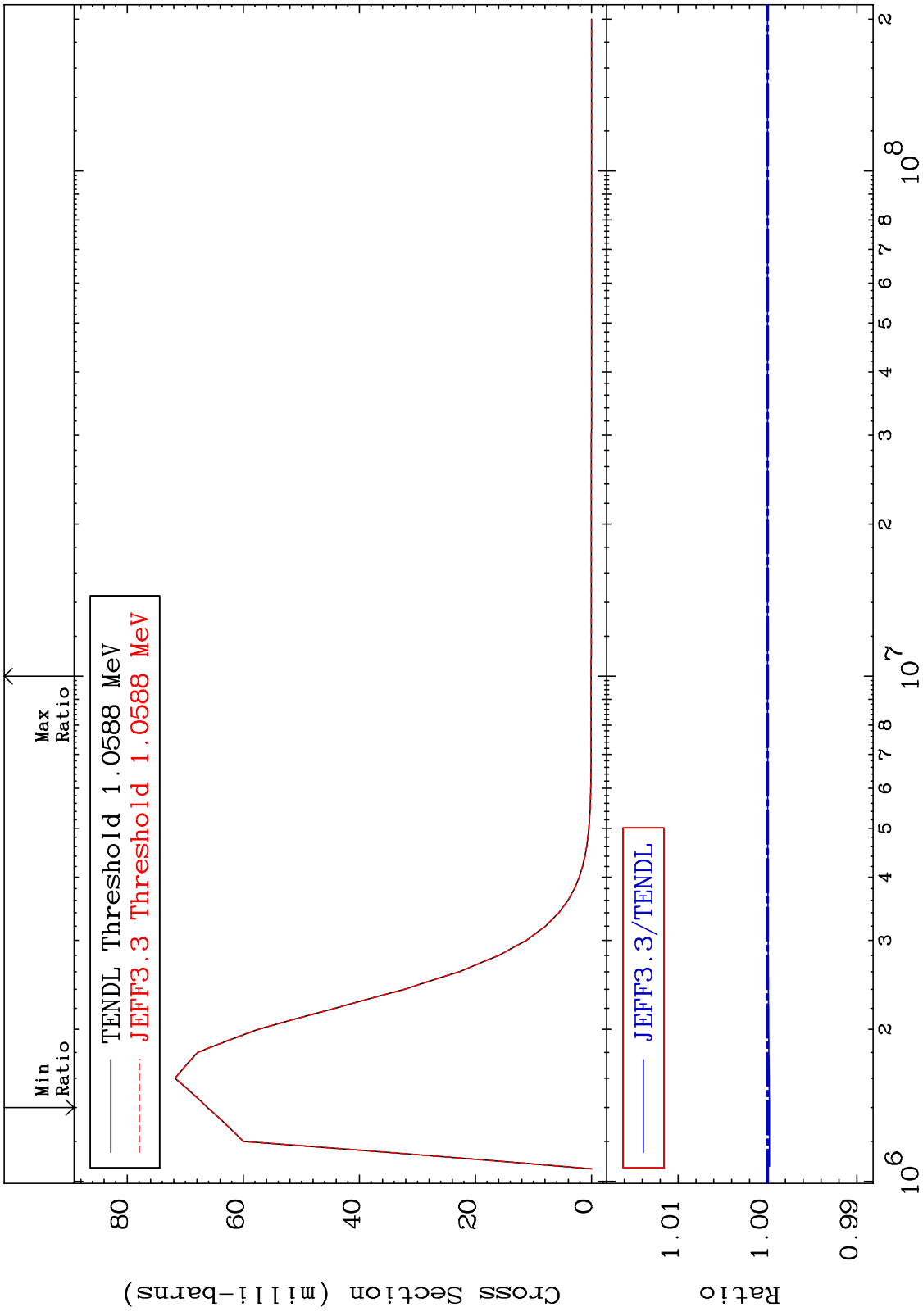


28 Incident Energy (eV) 60-Nd-145

MAT 6034 MT= 60 (n, n') Level Cross Section 60-Nd-145  
 -0.066 To 0.000 %

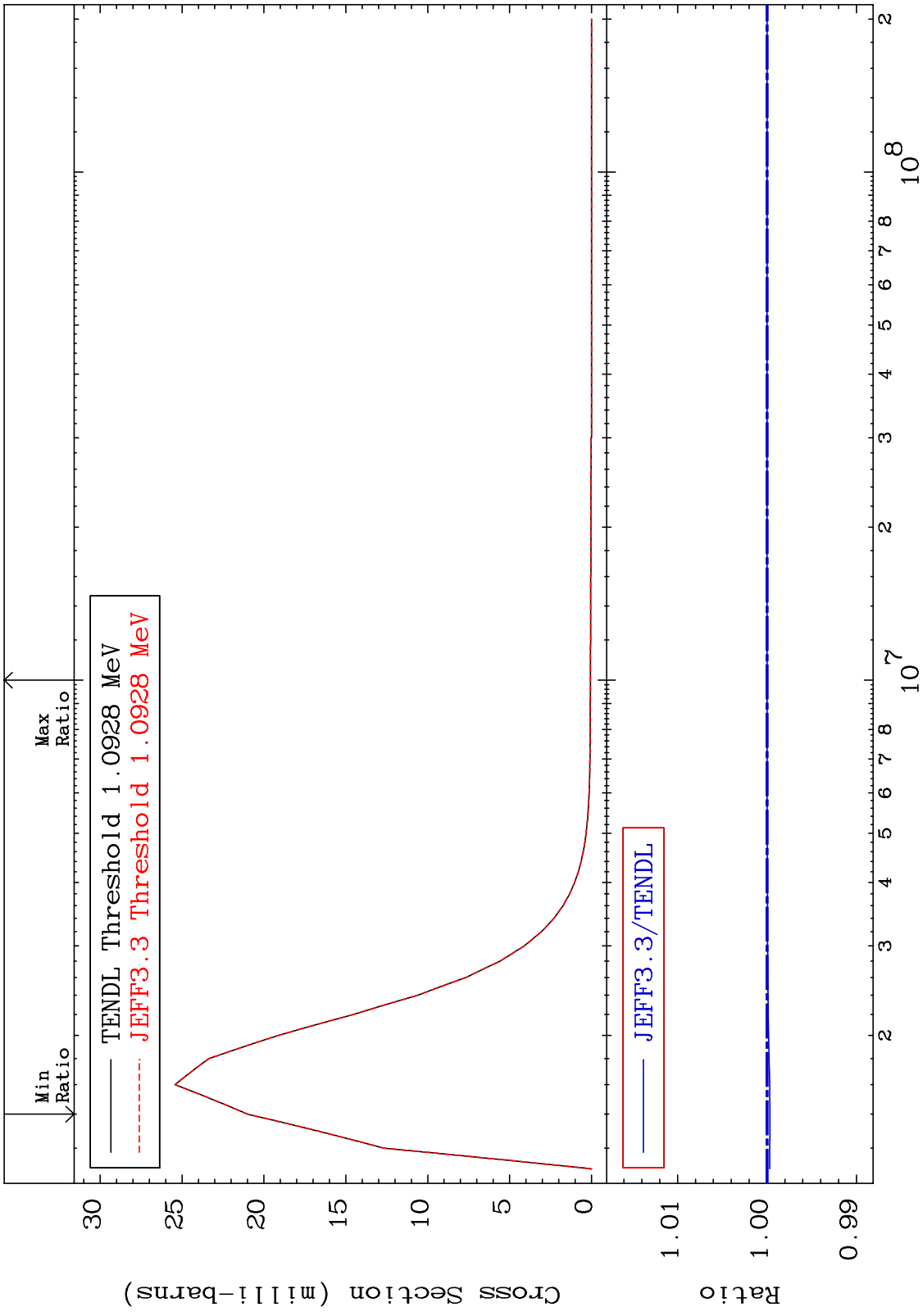


MAT 6034 MT= 61 (n,n') Level Cross Section 60-Nd-145  
-0.022 To 0.000 %

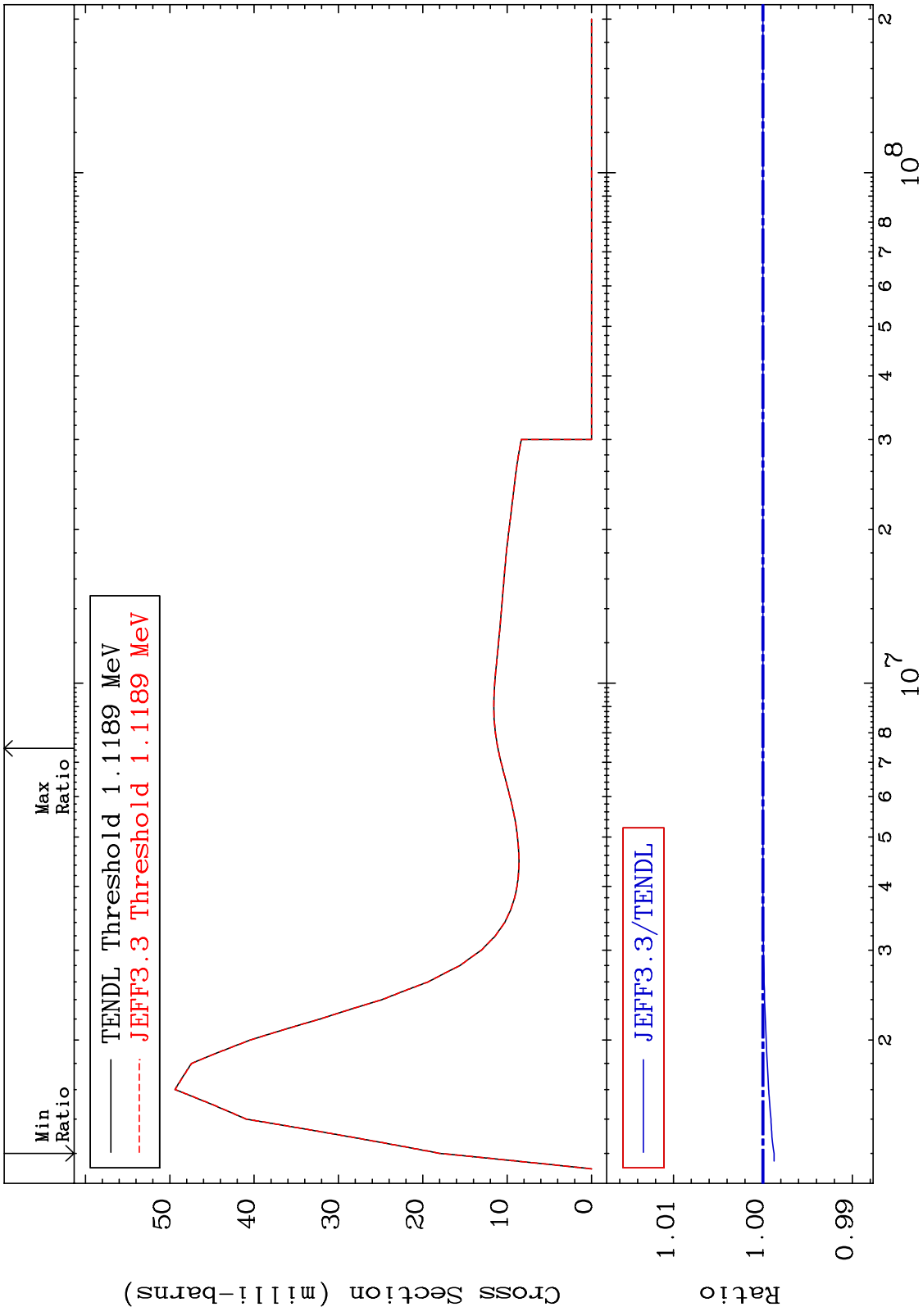


30 60-Nd-145

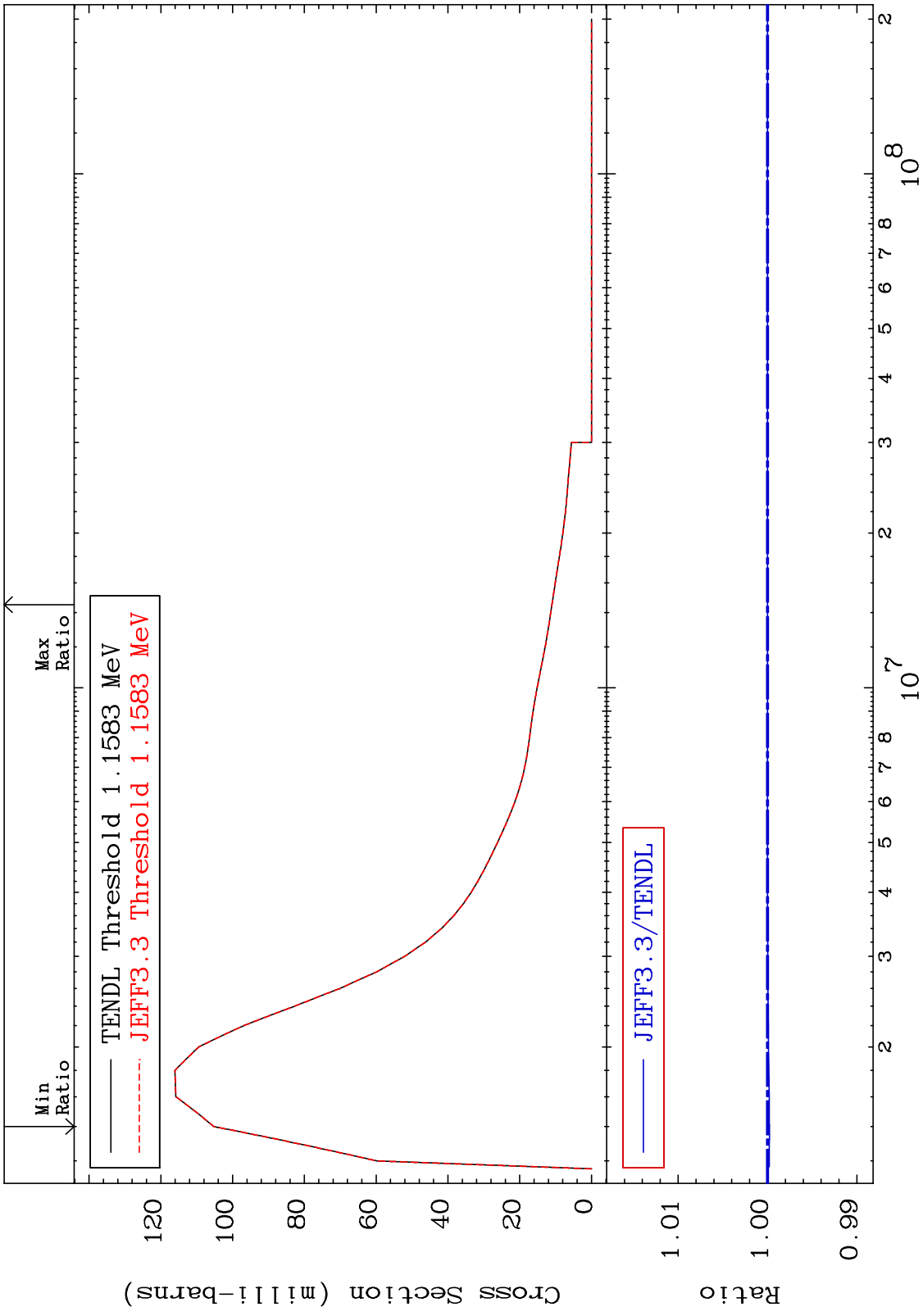
MAT 6034 MT= 62 (n,n') Level Cross Section 60-Nd-145  
 -0.032 To 0.000 %



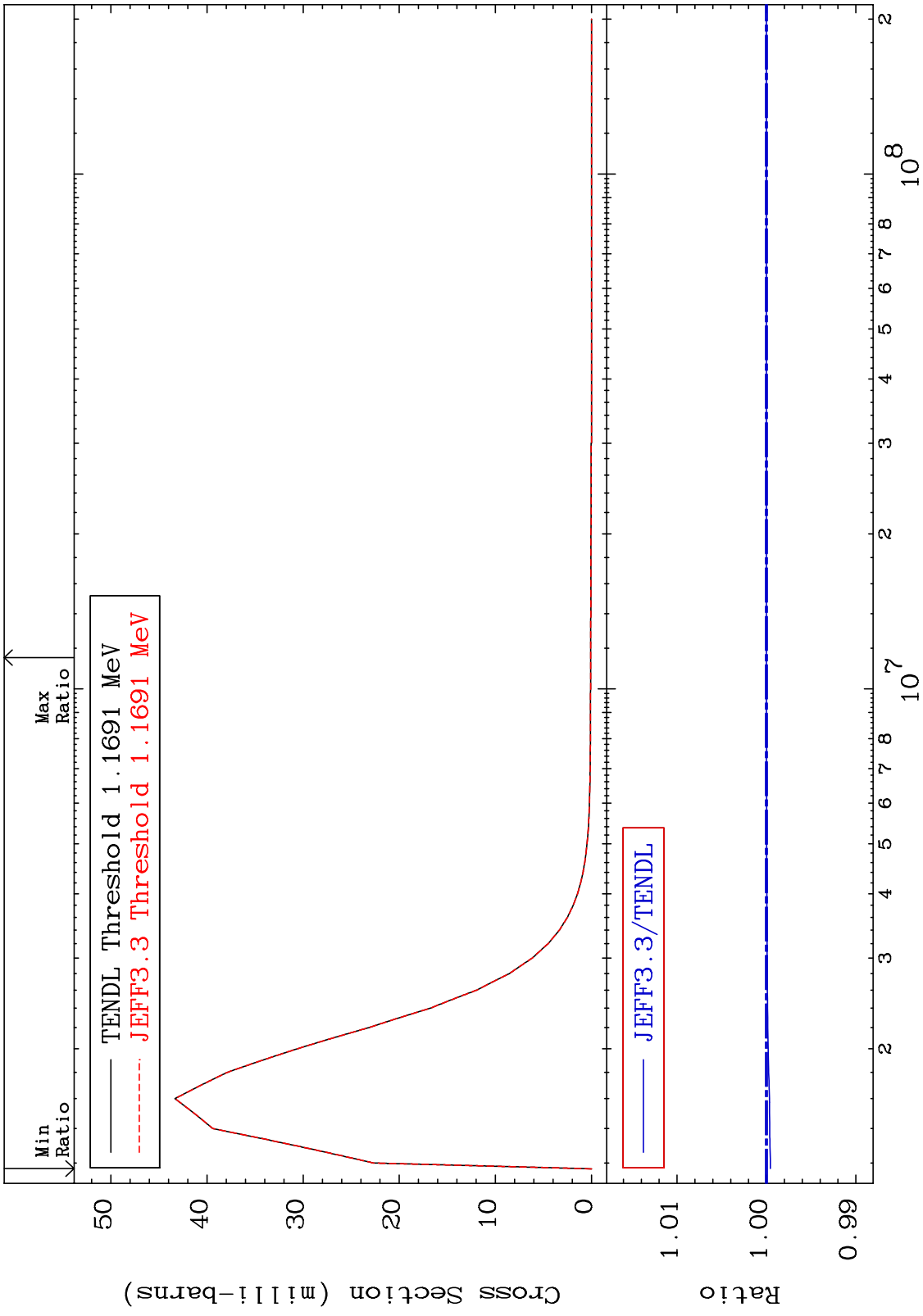
MAT 6034 MT= 63 (n,n') Level Cross Section 60-Nd-145  
 -0.125 To 0.000 %



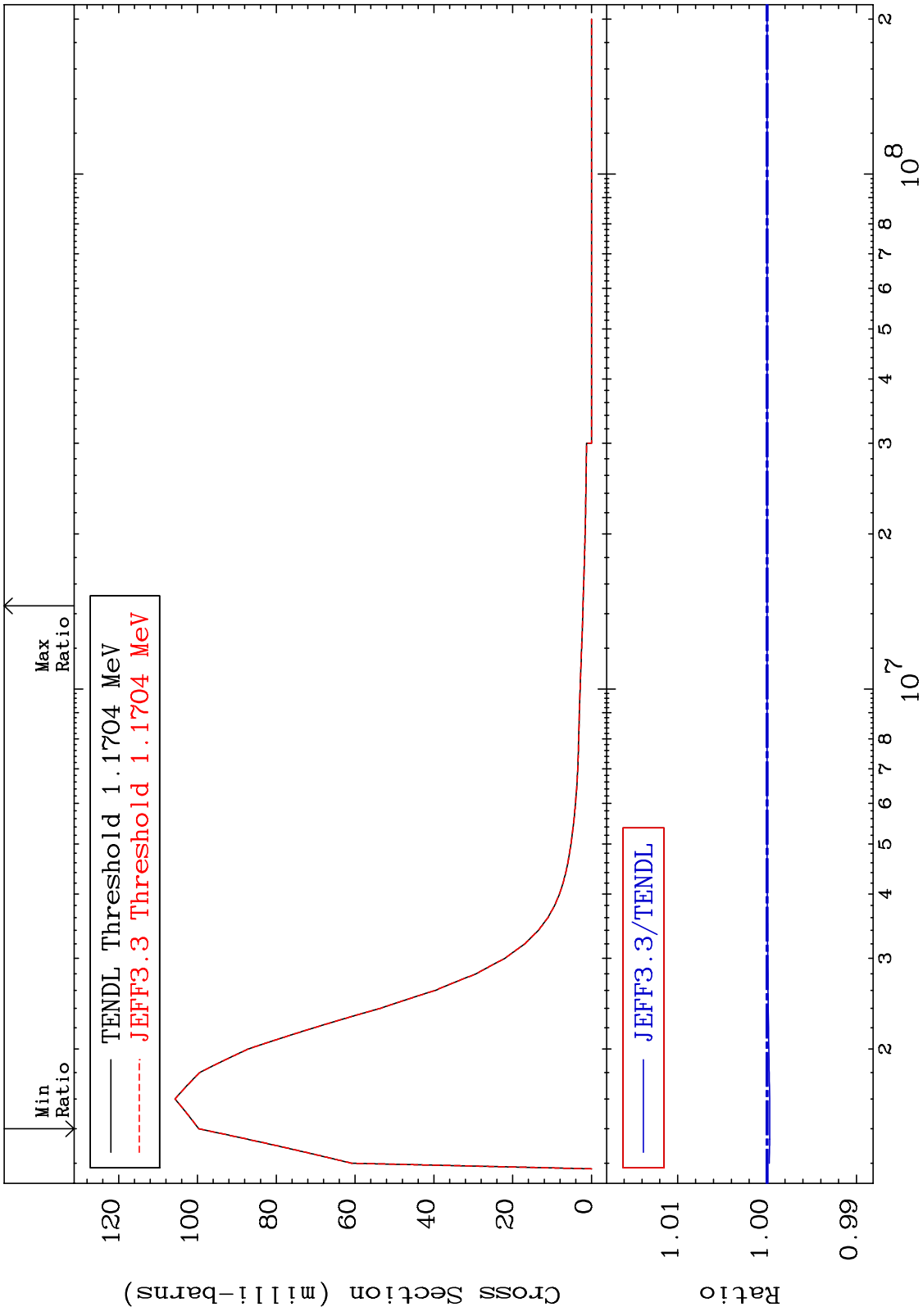
MAT 6034 MT= 64 (n,n') Level Cross Section 60-Nd-145  
 -0.021 To 0.000 %



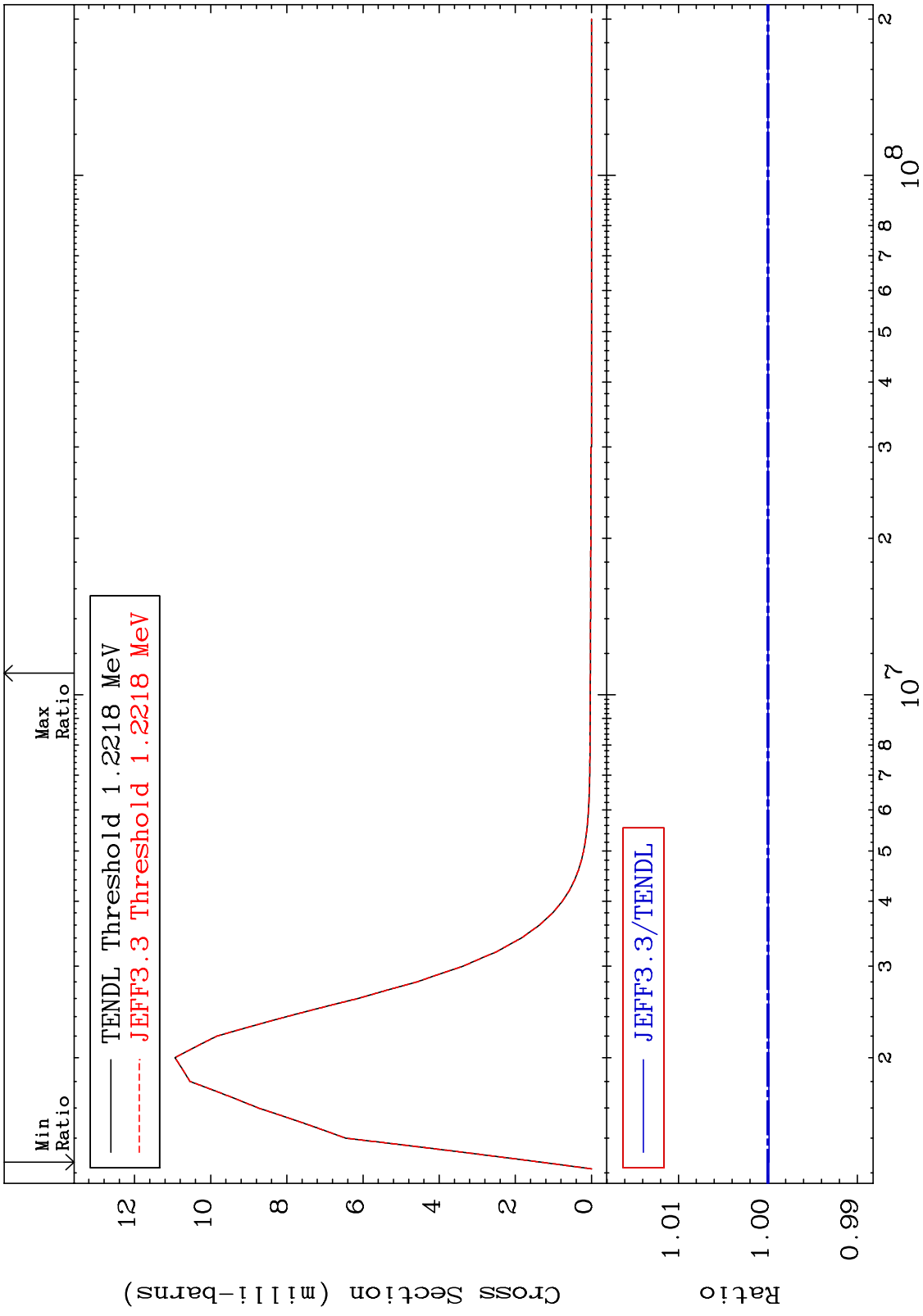
MAT 6034 MT= 65 (n,n') Level Cross Section 60-Nd-145  
 -0.045 To 0.000 %



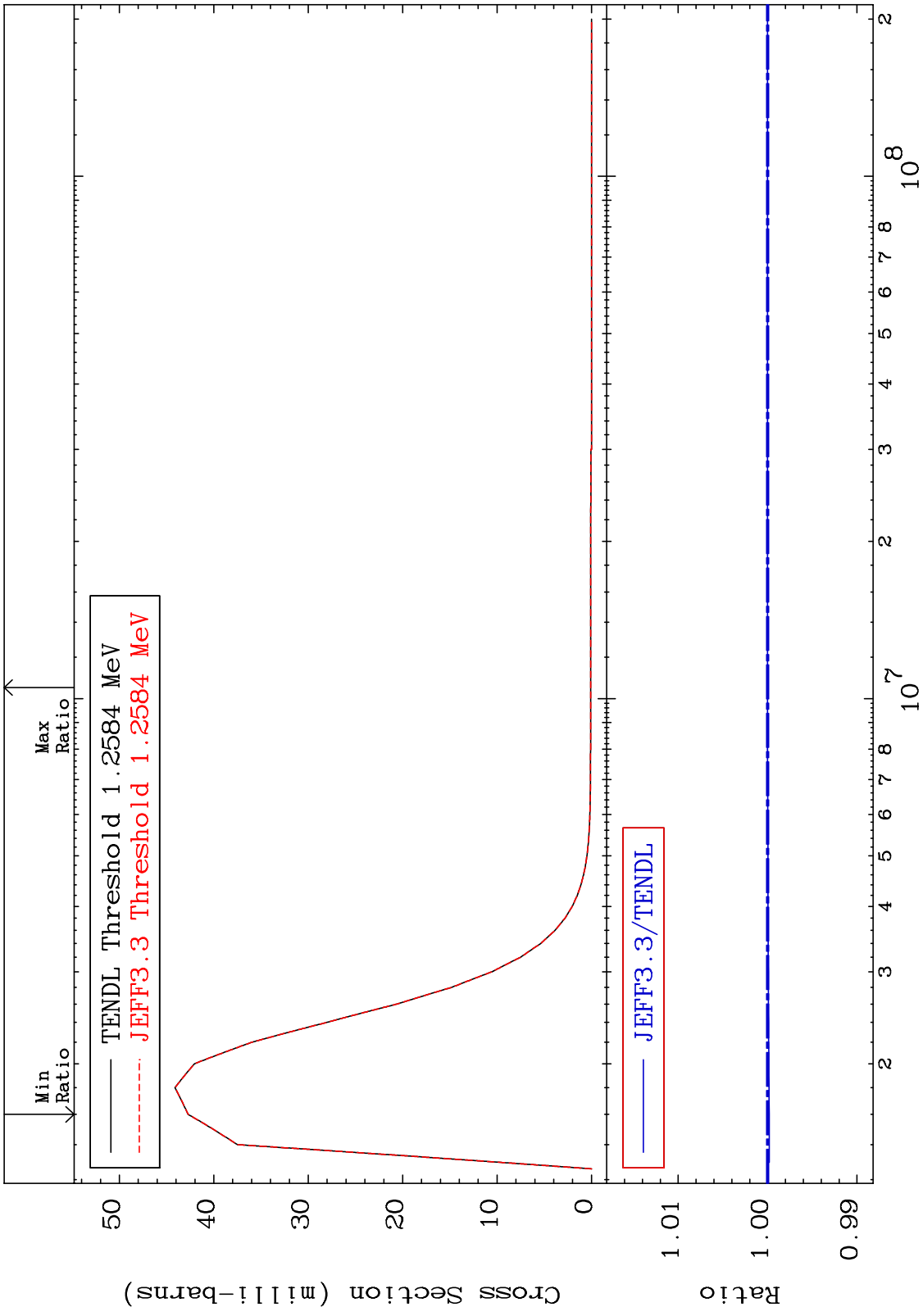
MAT 6034 MT= 66 (n,n') Level Cross Section 60-Nd-145  
 -0.030 To 0.000 %

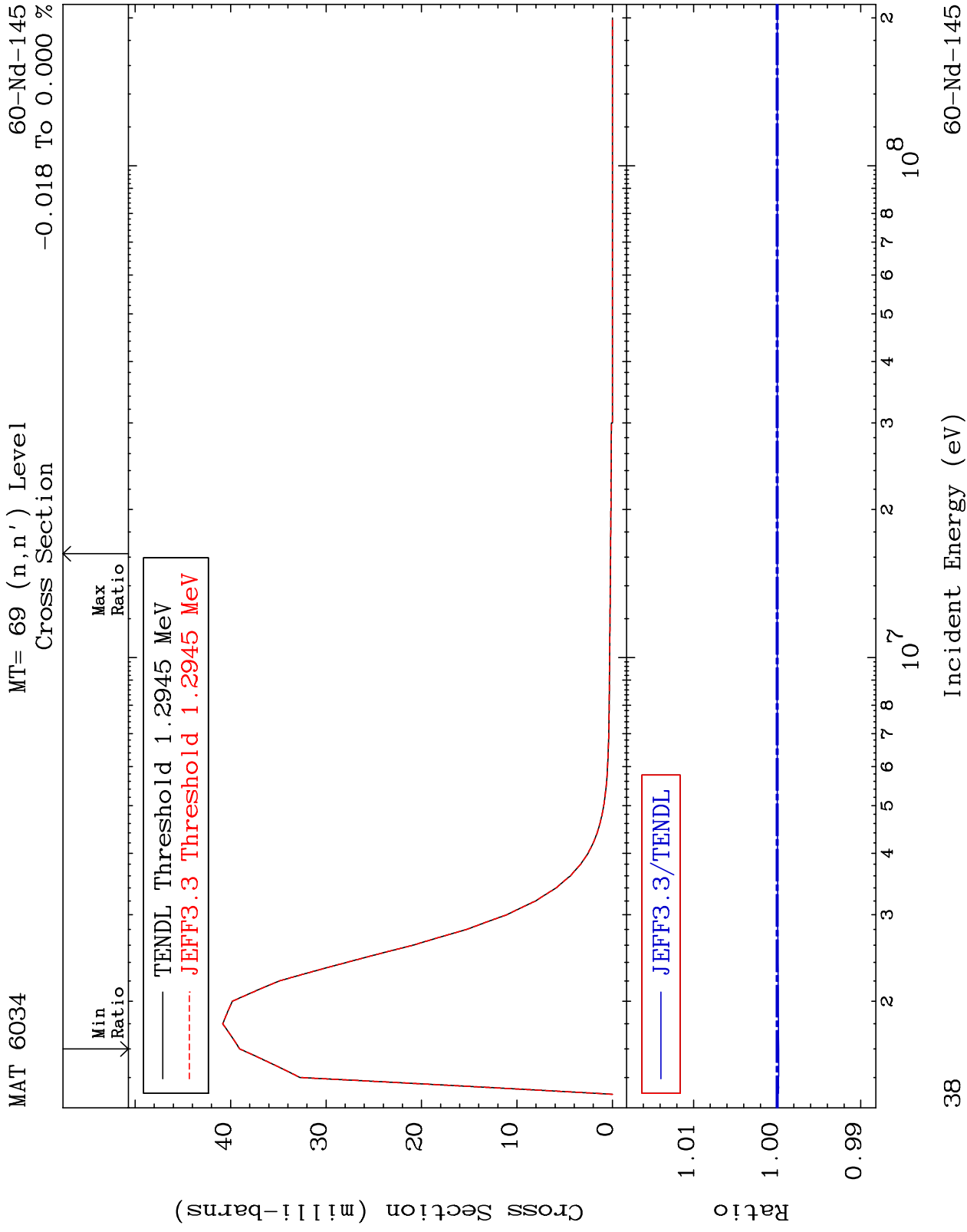


MAT 6034 MT= 67 (n,n') Level Cross Section 60-Nd-145  
 -0.013 To 0.000 %

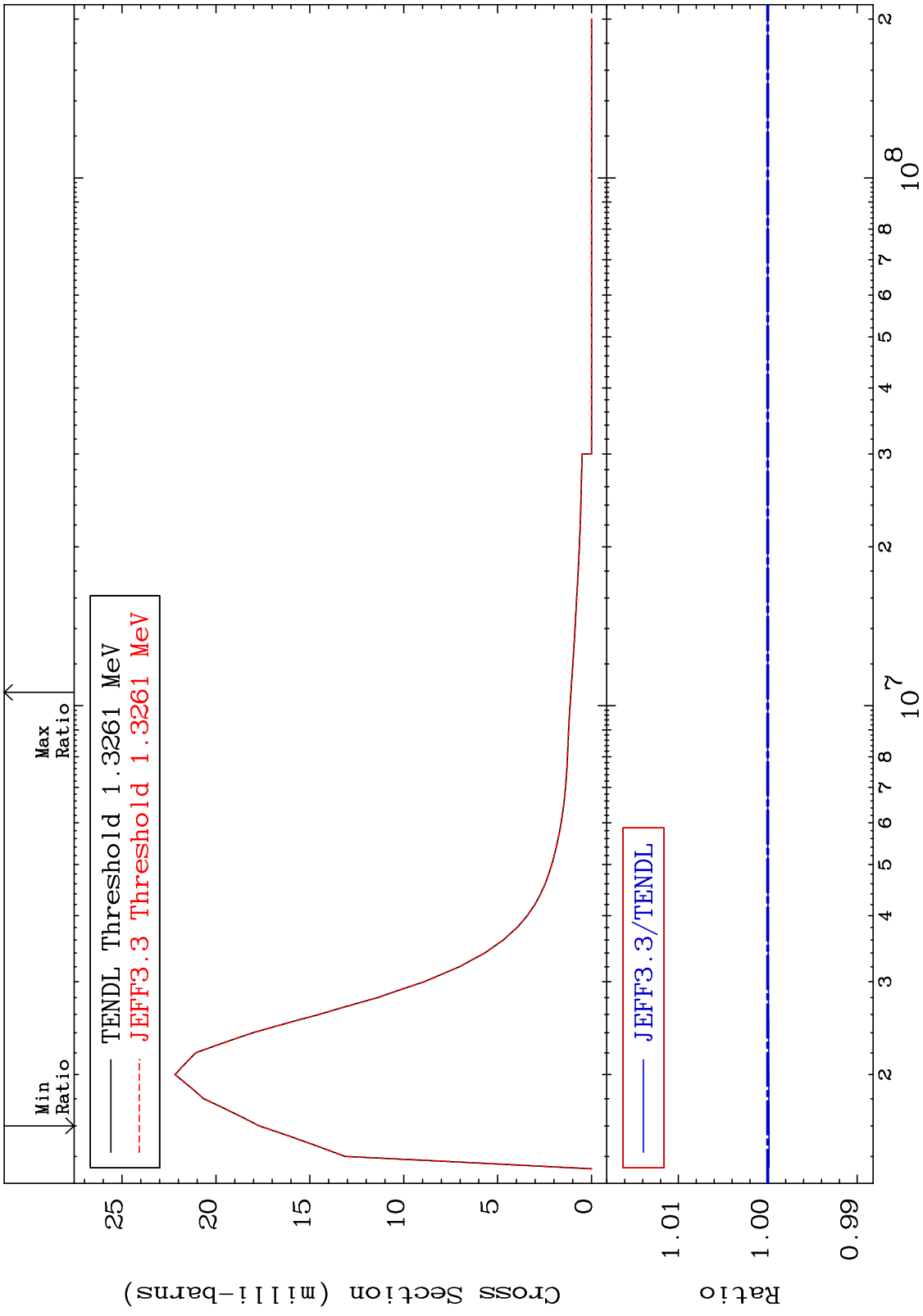


MAT 6034 MT= 68 (n,n') Level Cross Section 60-Nd-145  
 -0.019 To 0.000 %

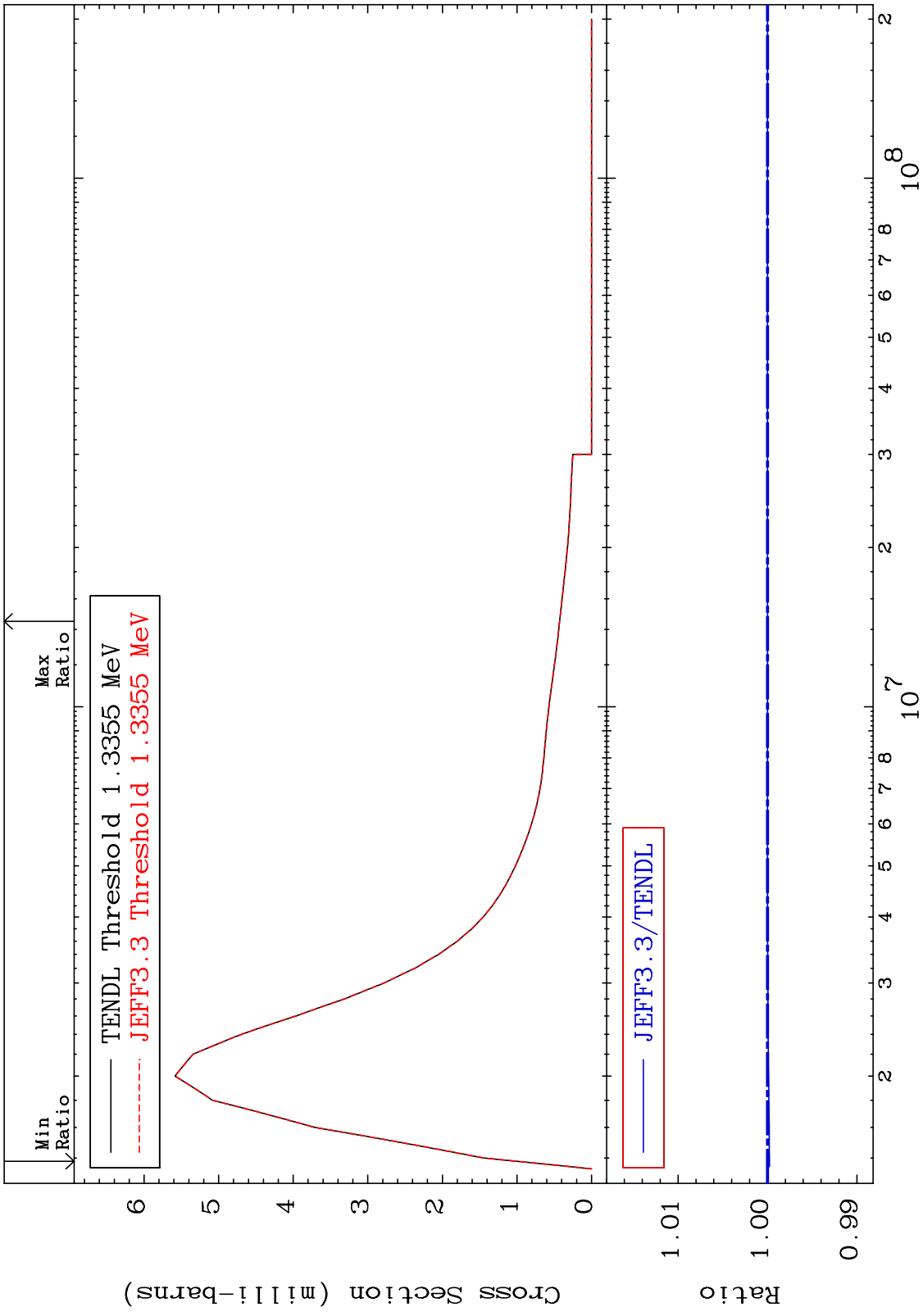




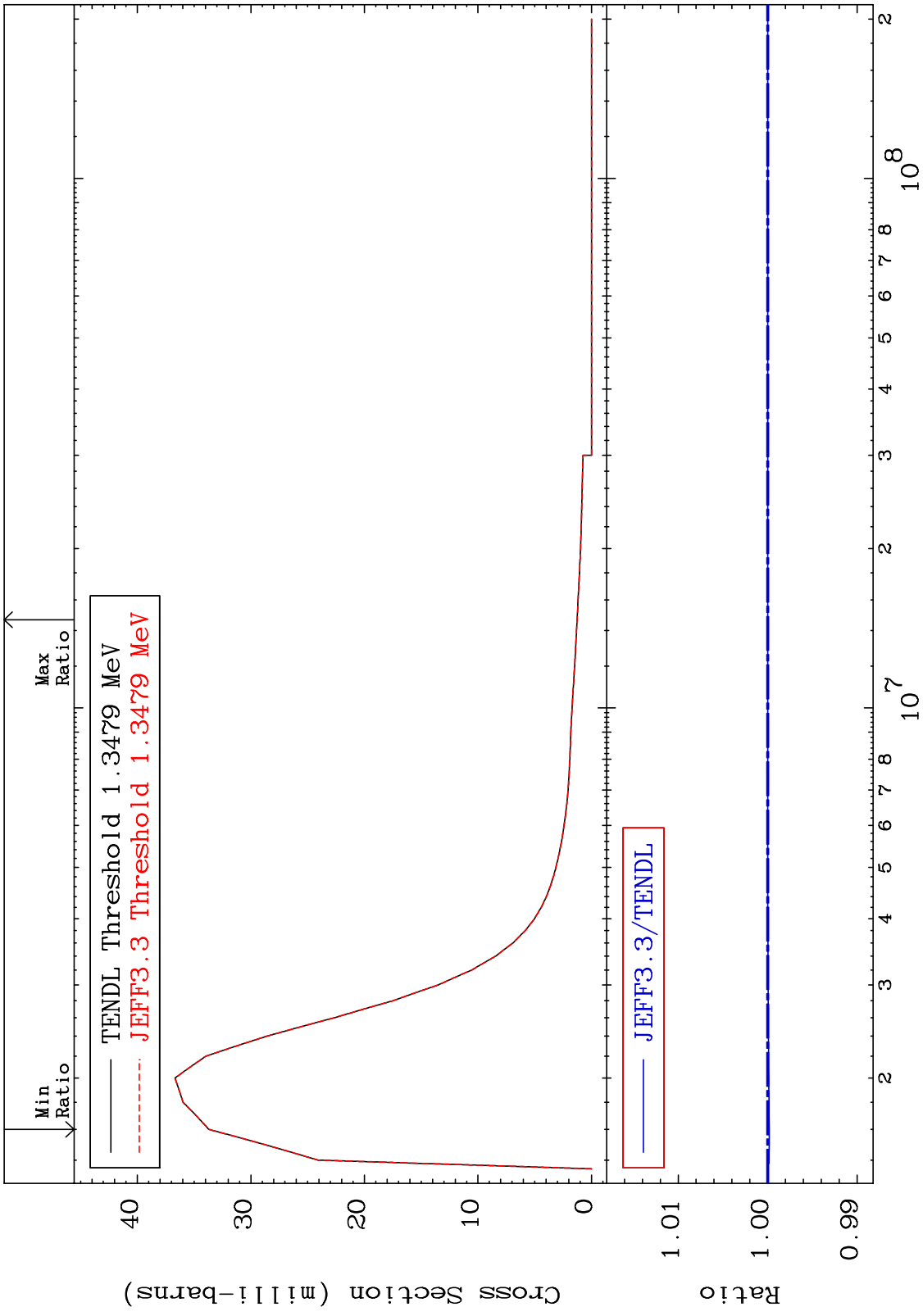
MAT 6034 MT= 70 (n,n') Level Cross Section 60-Nd-145  
 -0.014 To 0.000 %



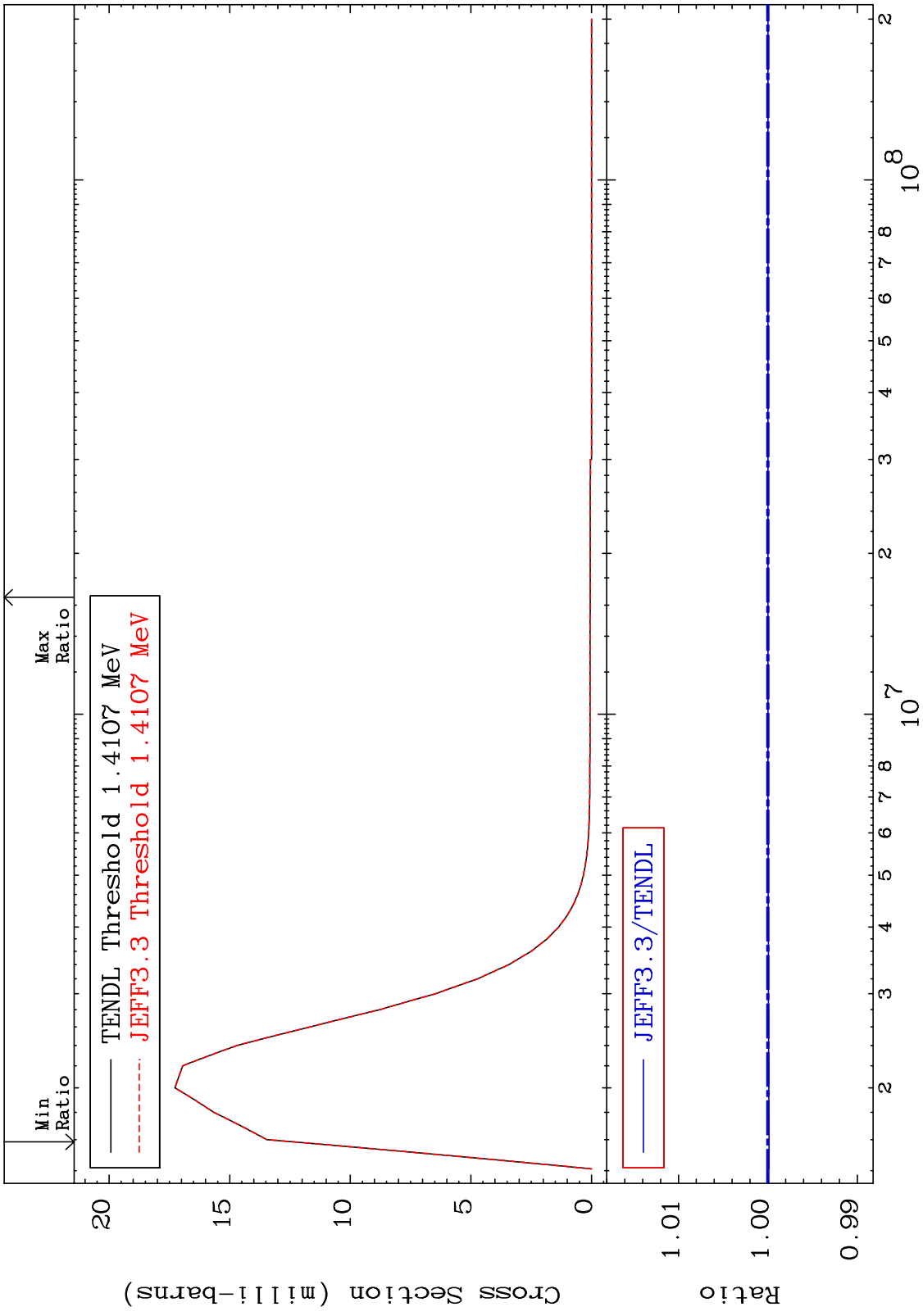
MAT 6034 MT= 71 (n,n') Level Cross Section 60-Nd-145 -0.022 To 0.000 %



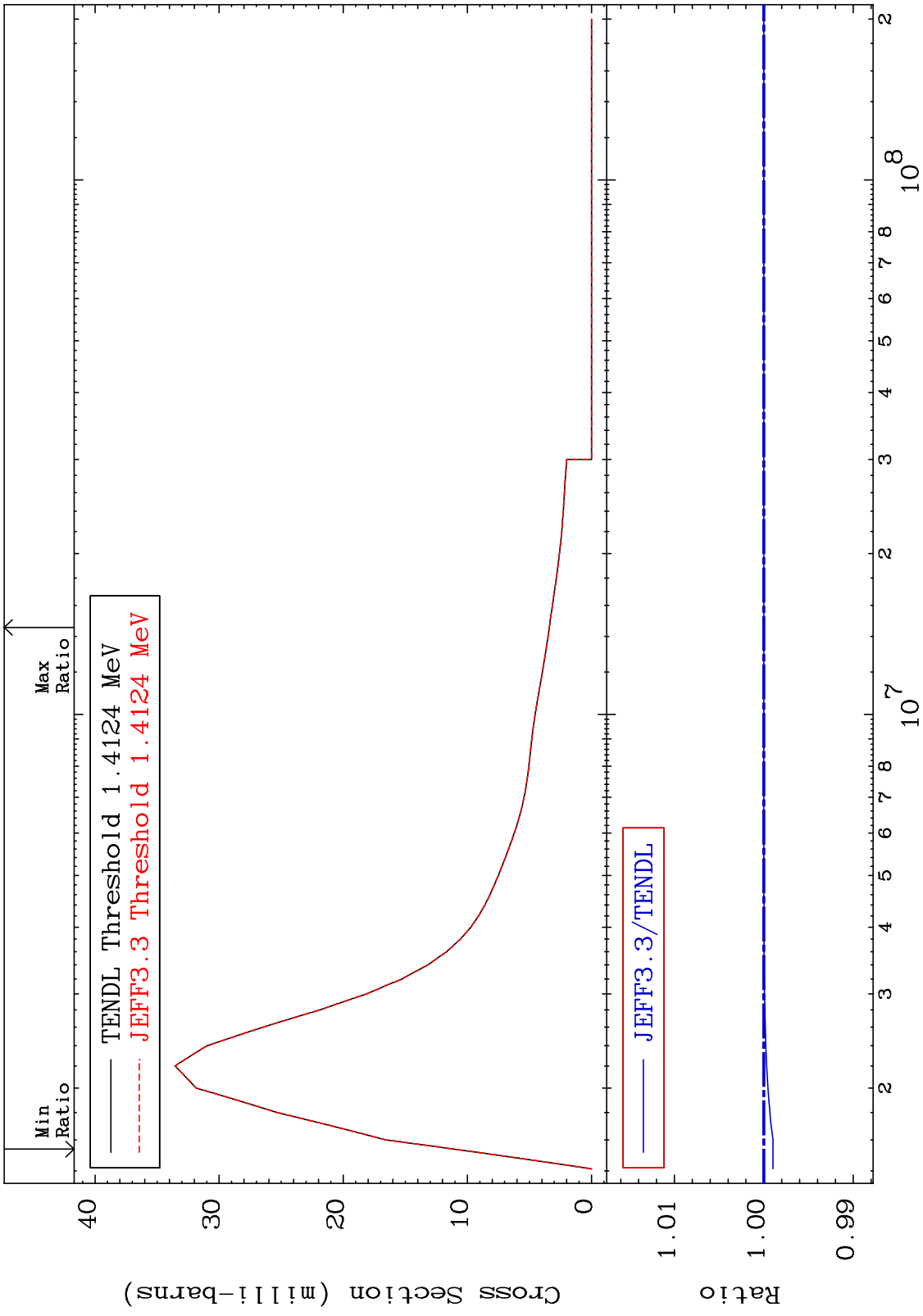
MAT 6034 MT= 72 (n,n') Level Cross Section 60-Nd-145  
 -0.018 To 0.000 %



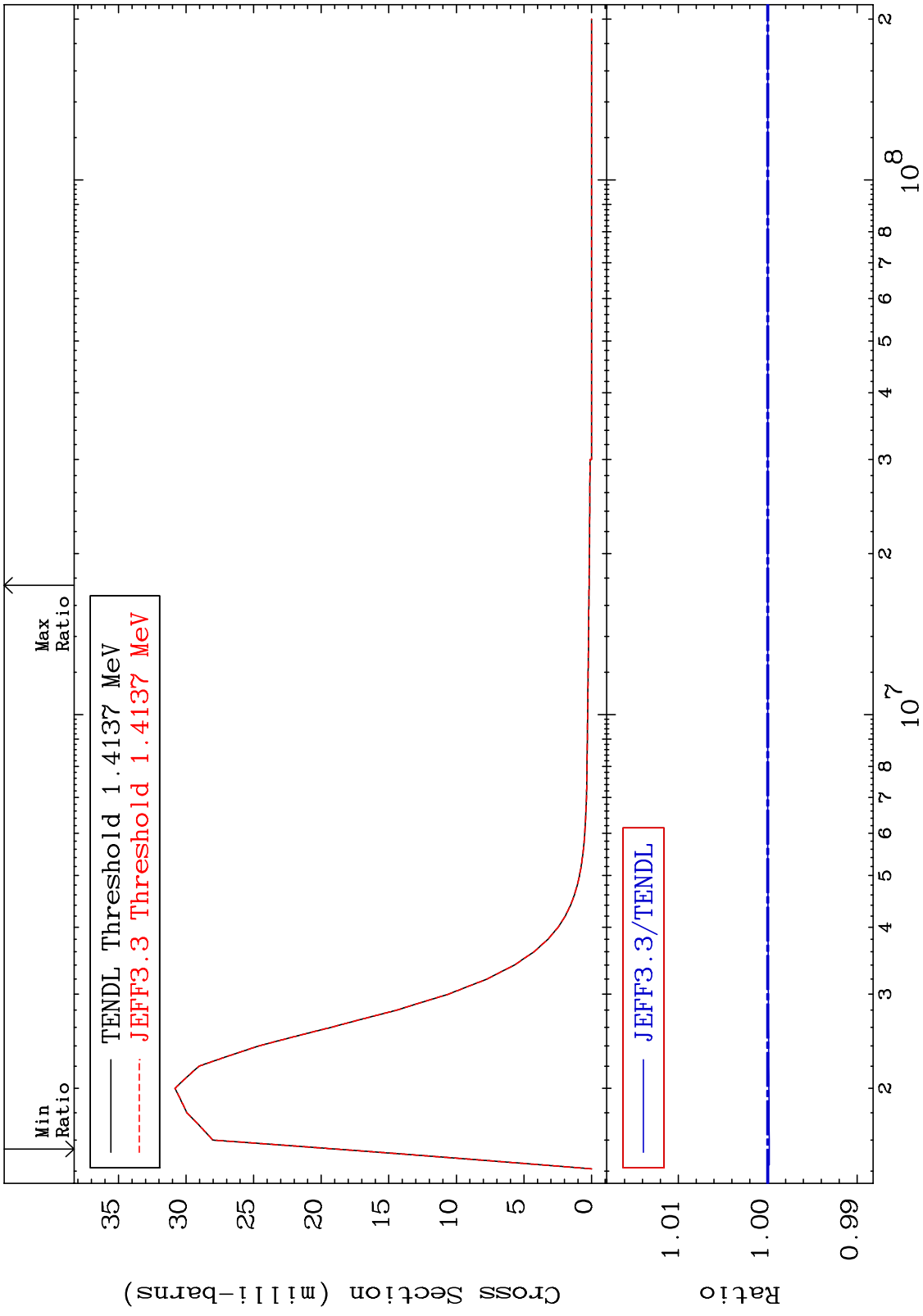
MAT 6034 MT= 73 (n,n') Level Cross Section 60-Nd-145  
 -0.013 To 0.000 %



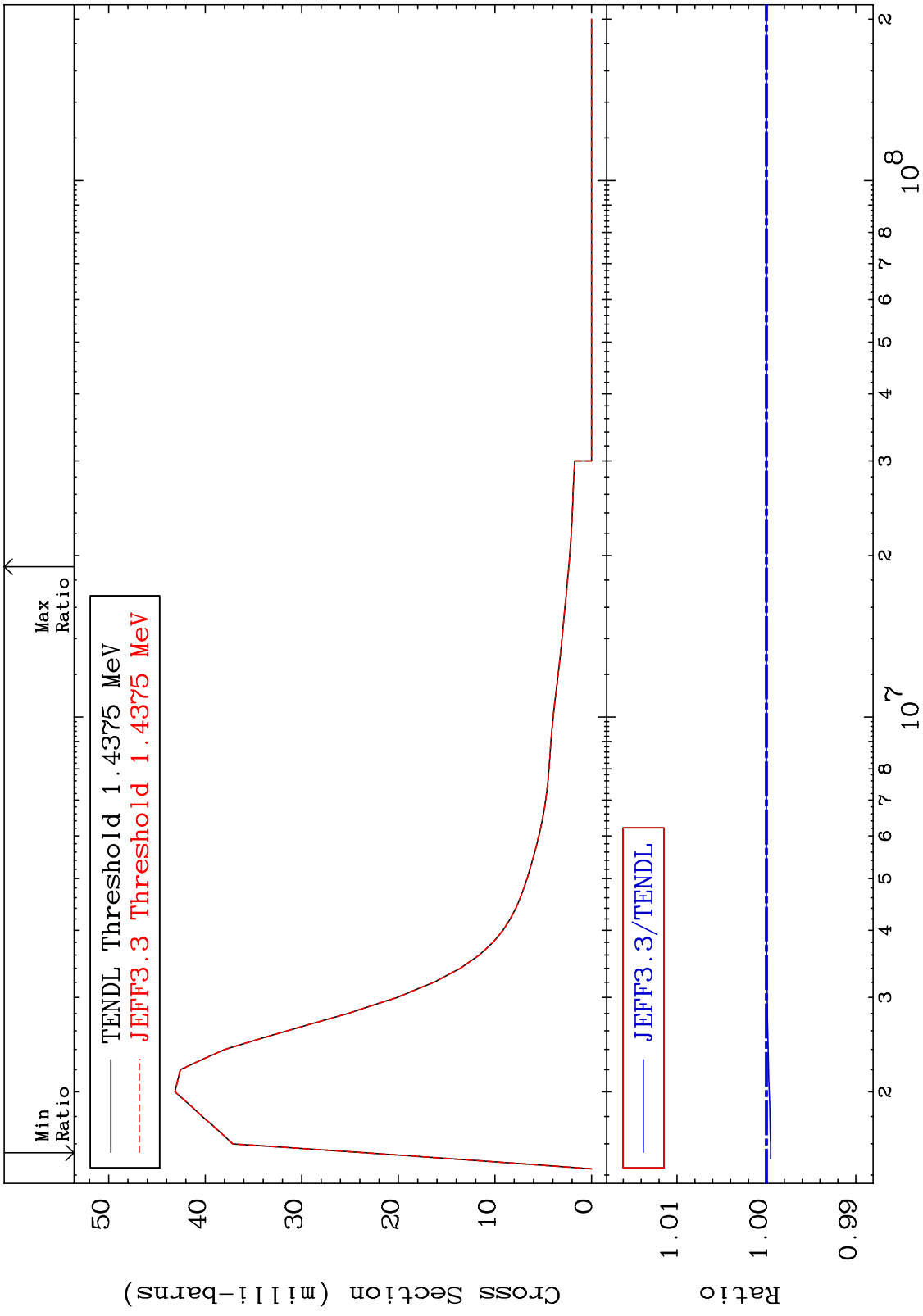
MAT 6034 MT= 74 (n,n') Level Cross Section 60-Nd-145  
 -0.102 To 0.000 %



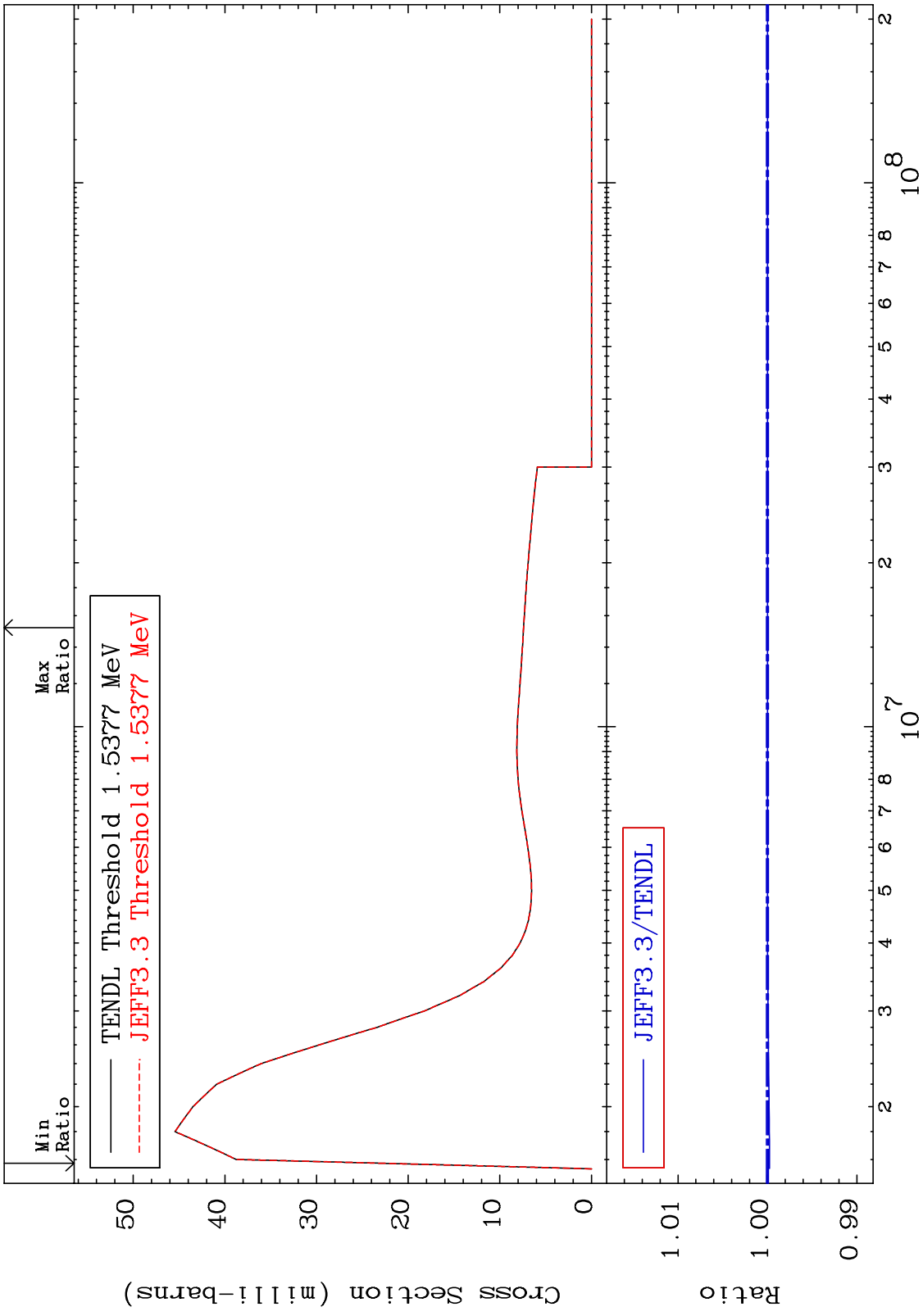
MAT 6034 MT= 75 (n,n') Level Cross Section 60-Nd-145  
 -0.017 To 0.000 %



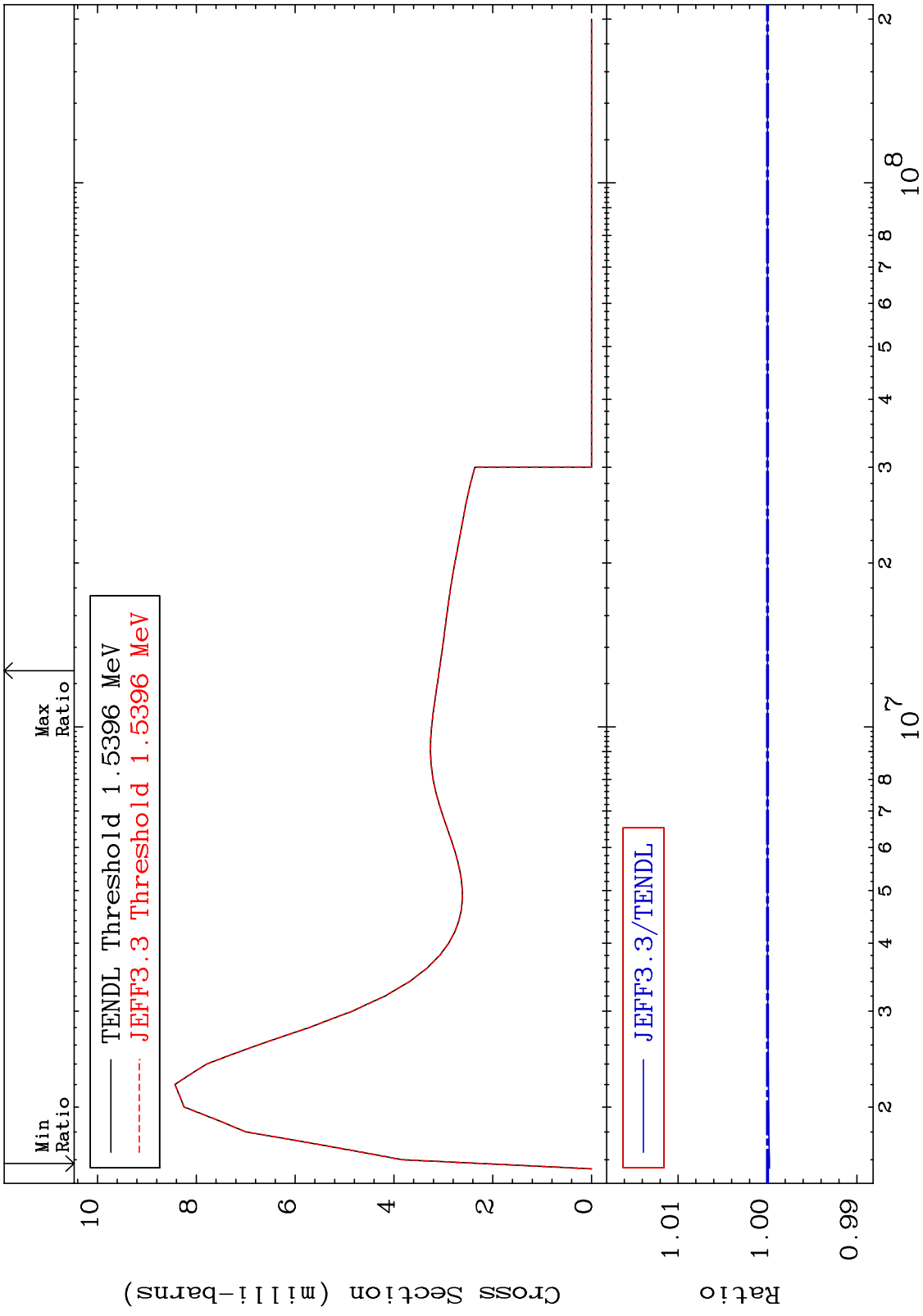
MAT 6034 MT= 76 (n,n') Level Cross Section 60-Nd-145  
 -0.046 To 0.000 %



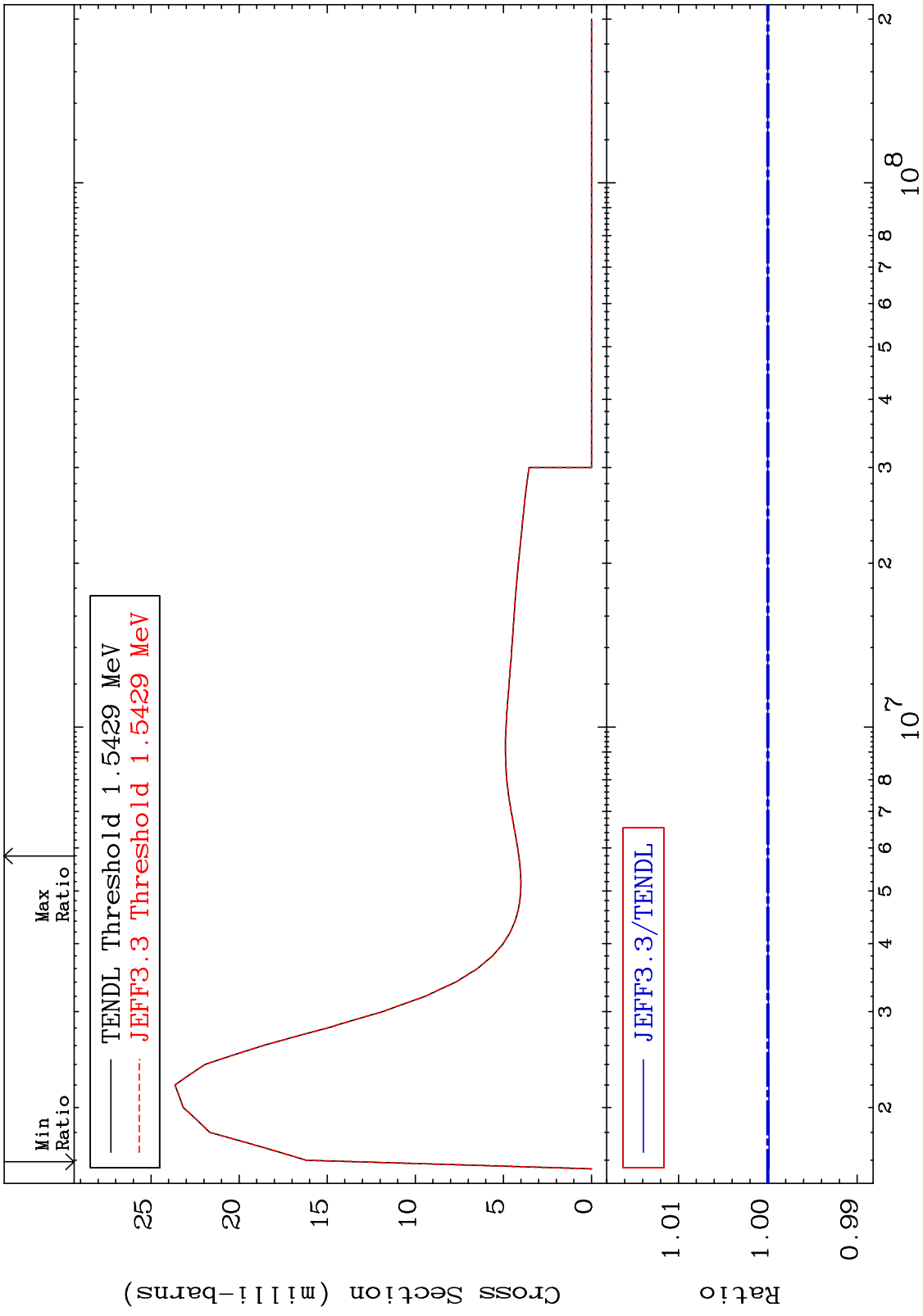
MAT 6034 MT= 77 (n,n') Level Cross Section 60-Nd-145  
 -0.023 To 0.000 %



MAT 6034 MT= 78 (n,n') Level Cross Section 60-Nd-145  
 -0.022 To 0.000 %



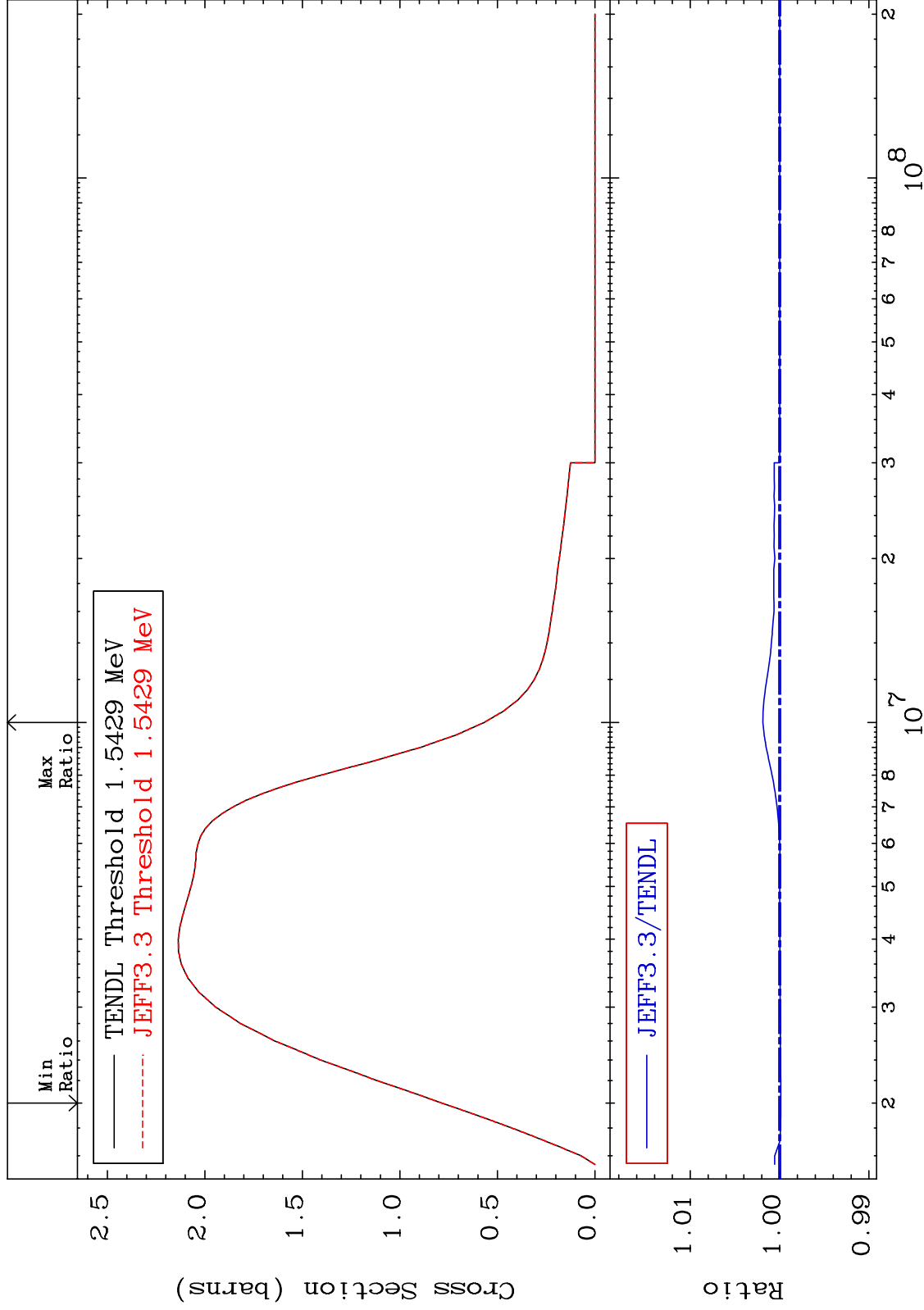
MAT 6034 MT= 79 (n,n') Level Cross Section 60-Nd-145  
 -0.014 To 0.000 %



MAT 6034

(n,n') Continuum  
Cross Section

60-Nd-145  
-0.013 To 0.187 %



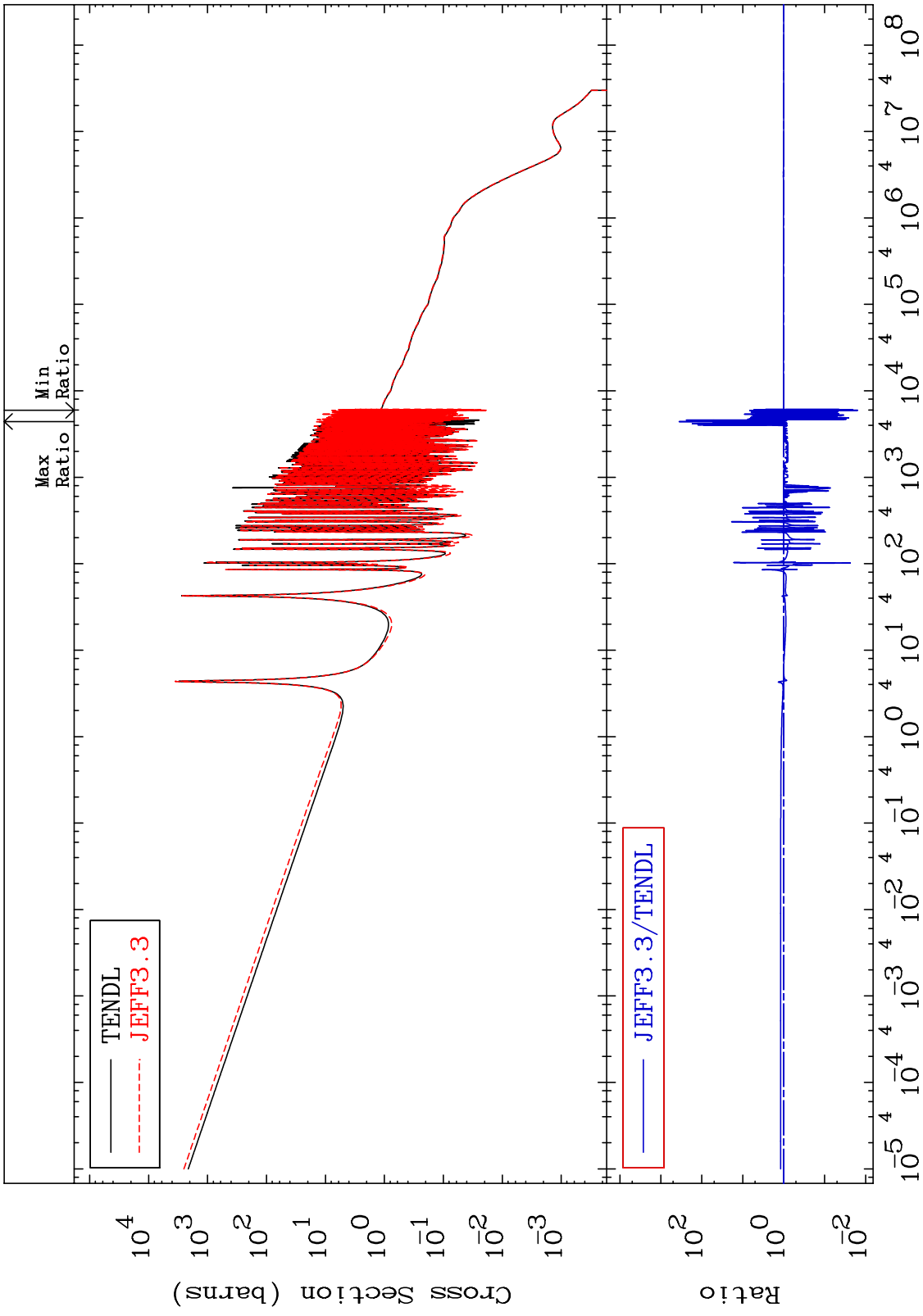
MAT 6034

(n,  $\gamma$ )

60-Nd-145

Cross Section

-98.46 To 9999. %

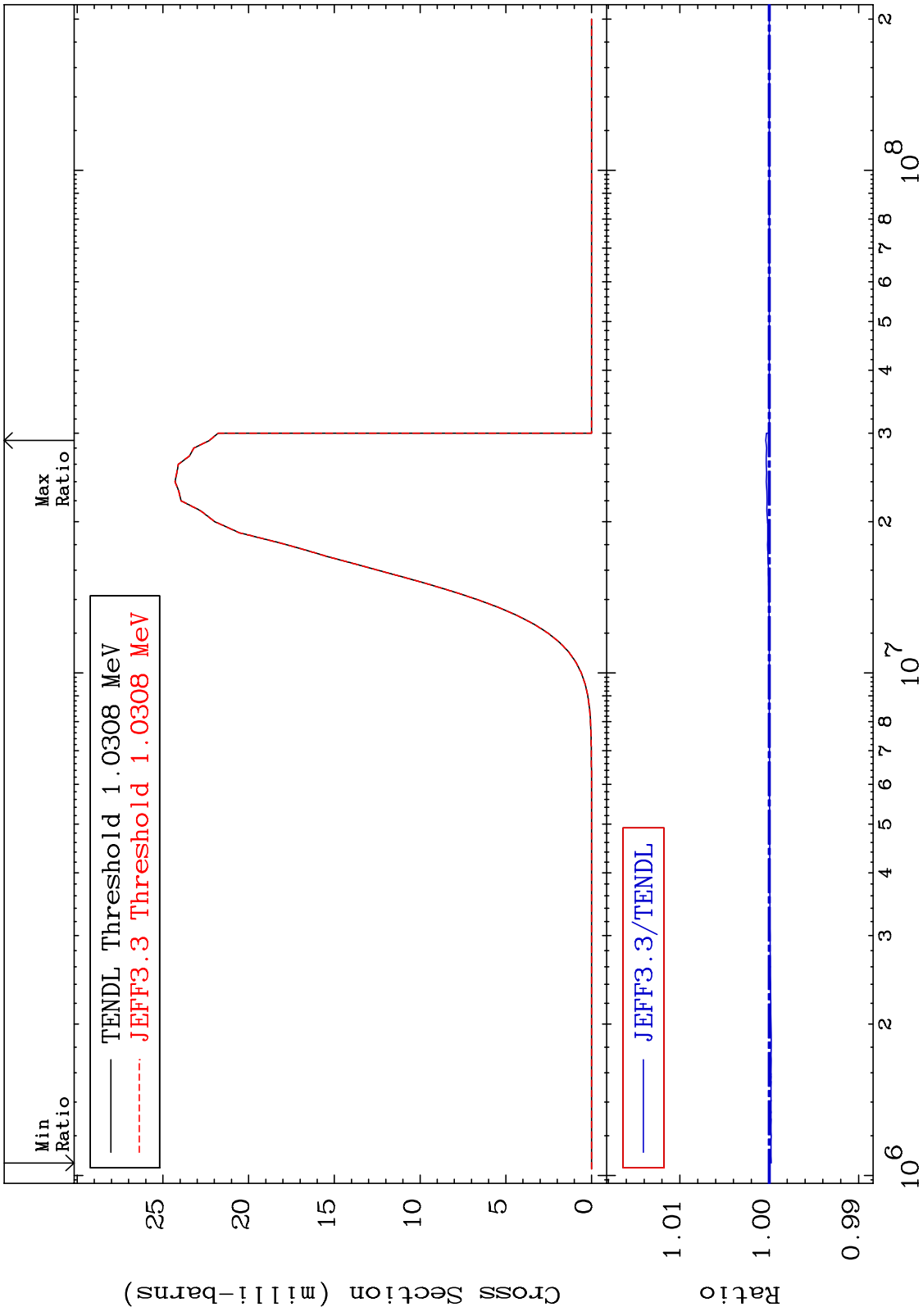


50

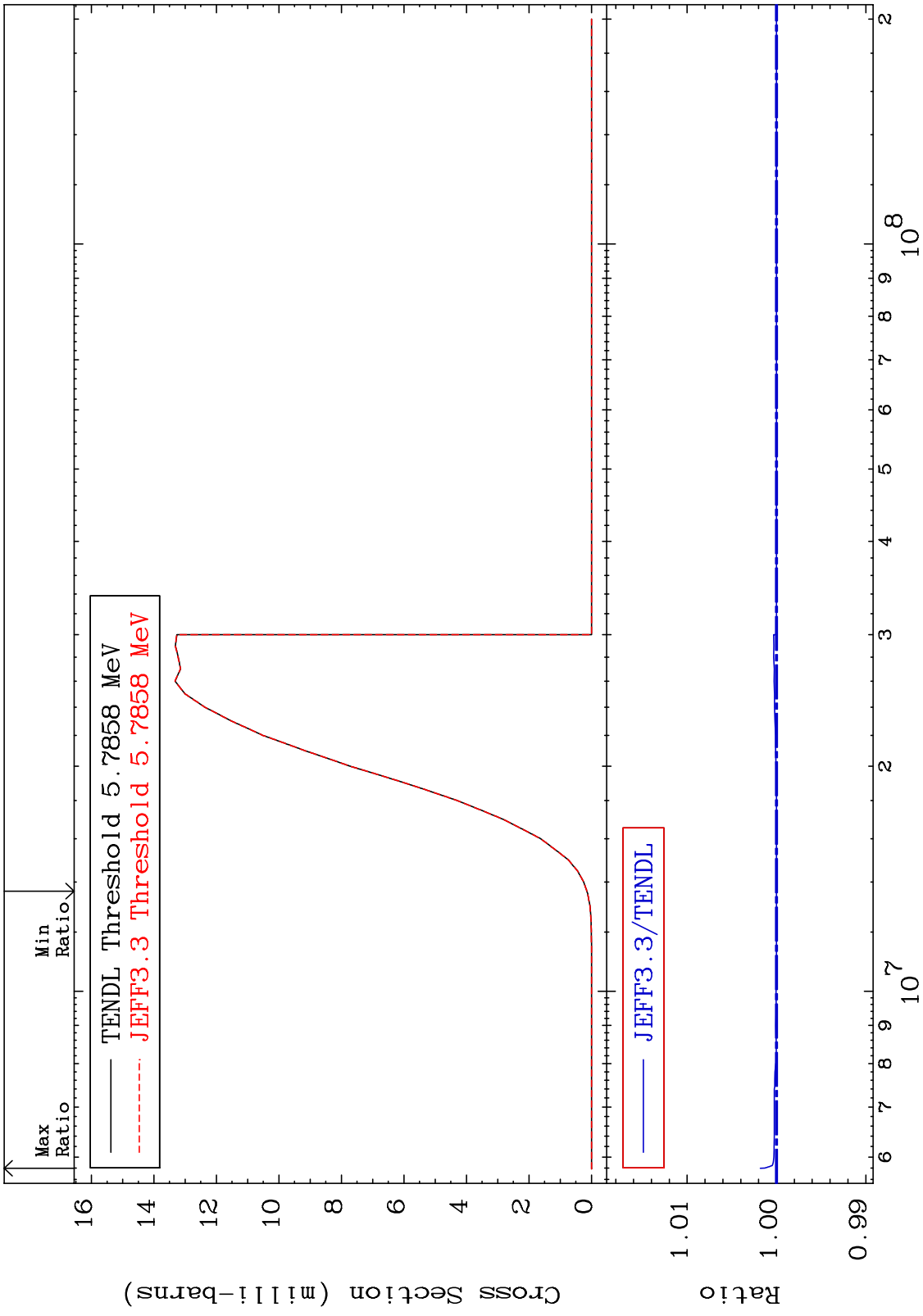
Incident Energy (eV)

60-Nd-145

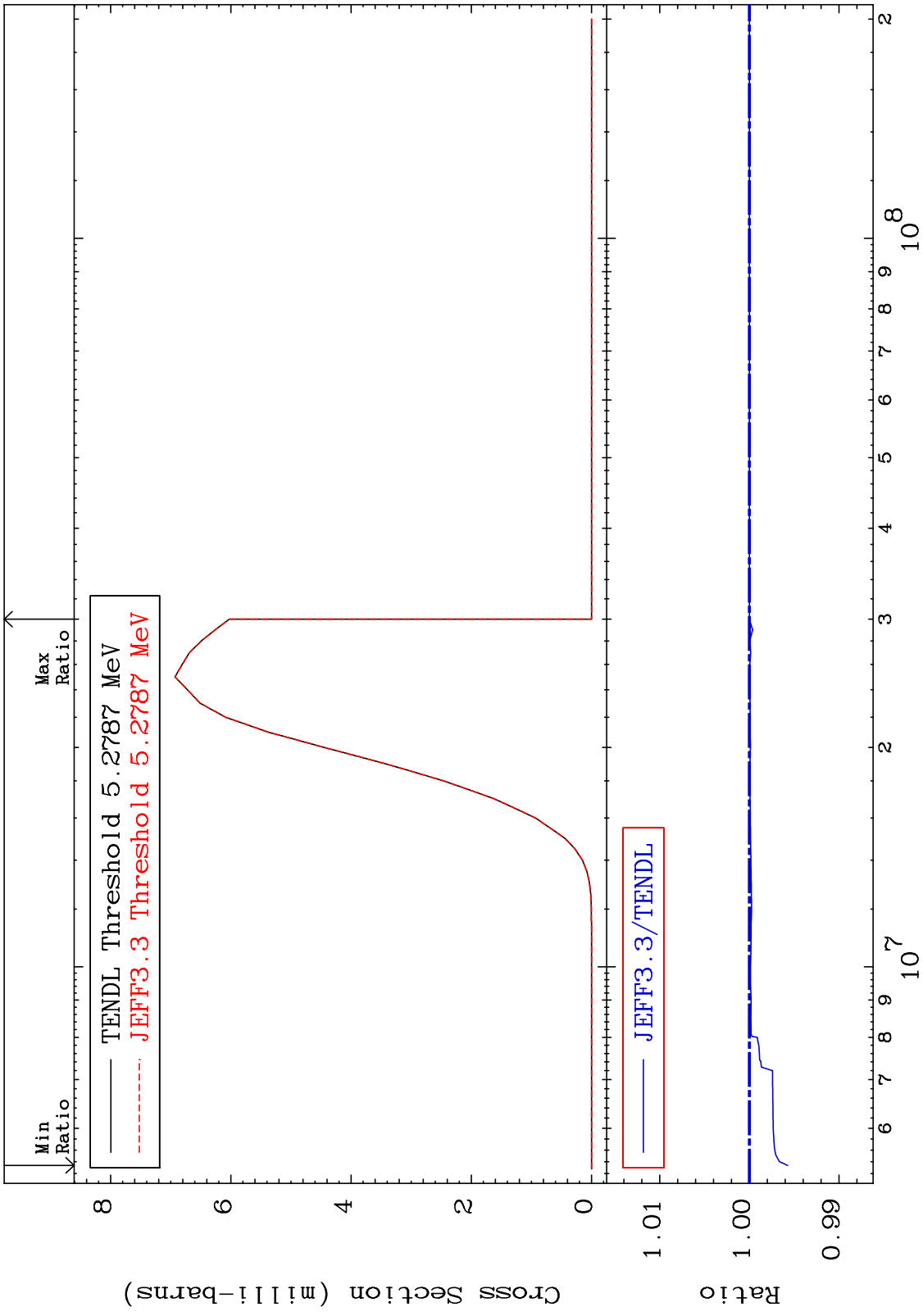
MAT 6034 (n,p) Cross Section 60-Nd-145  
-0.021 To 0.039 %



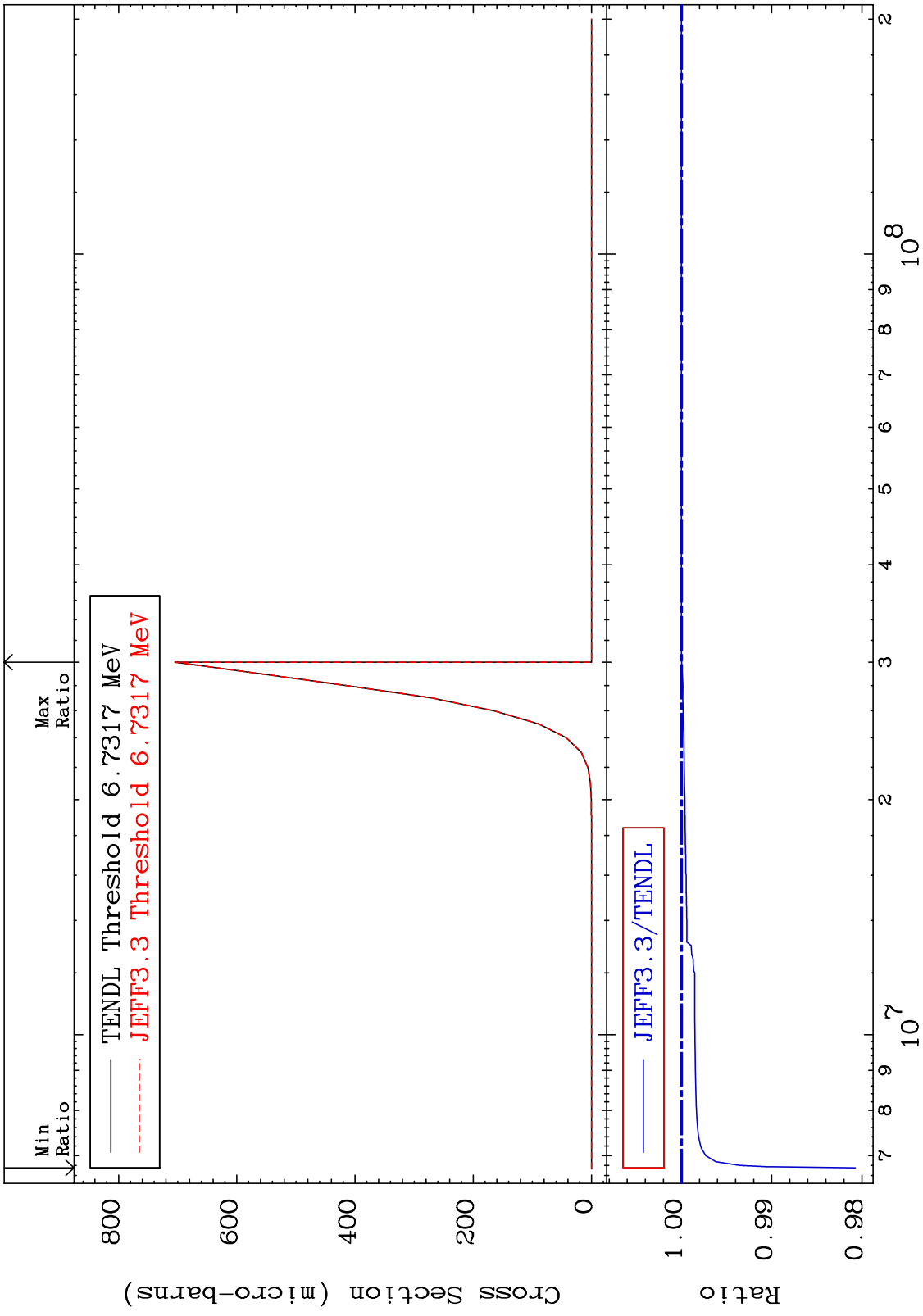
MAT 6034 (n,d) Cross Section 60-Nd-145 To 0.180 %



MAT 6034 (n,t) Cross Section 60-Nd-145 -0.426 To 0.000 %



MAT 6034 (n, He-3) Cross Section 60-Nd-145 -1.928 To 0.000 %



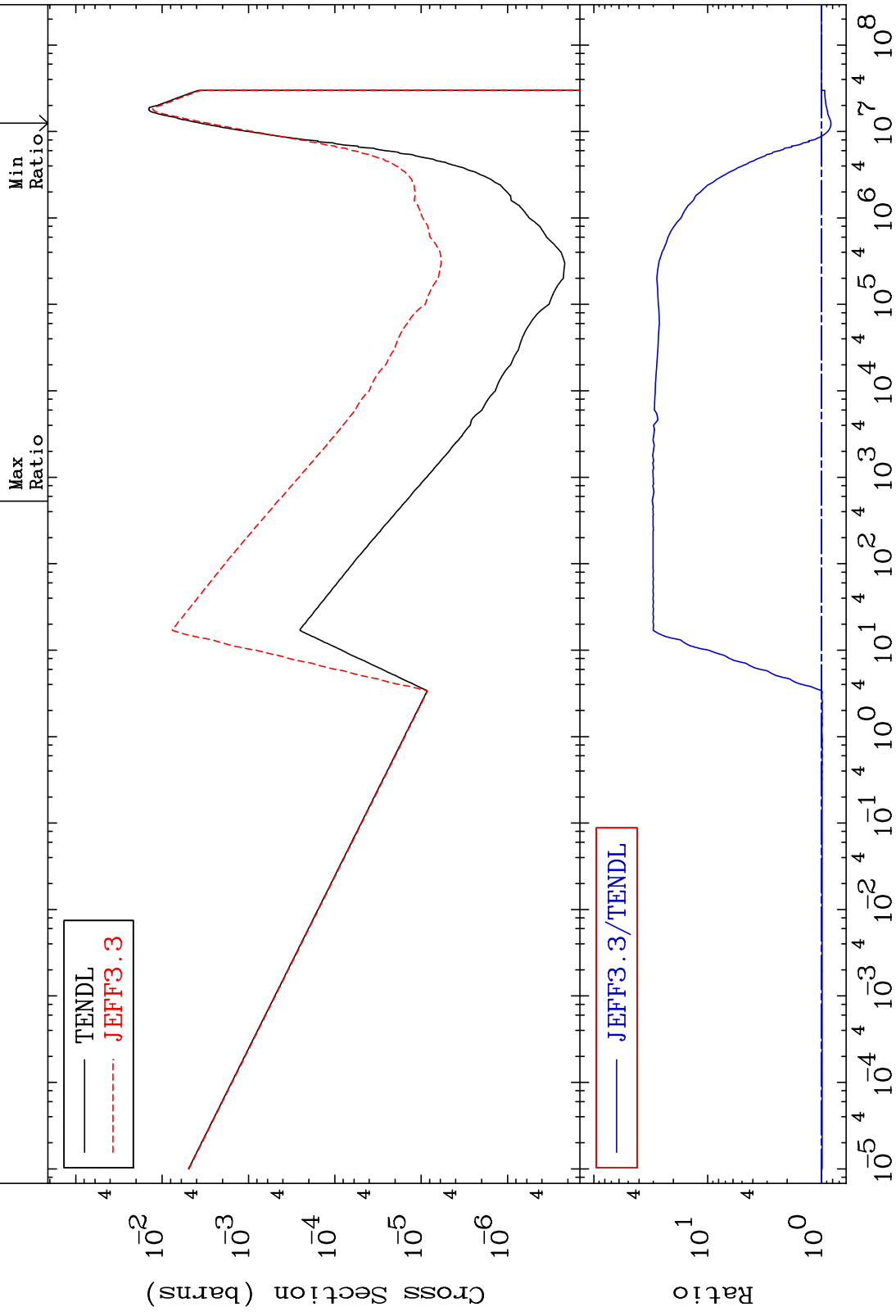
MAT 6034

(n,  $\alpha$ )

60-Nd-145

-17.32 To 2966. %

Cross Section



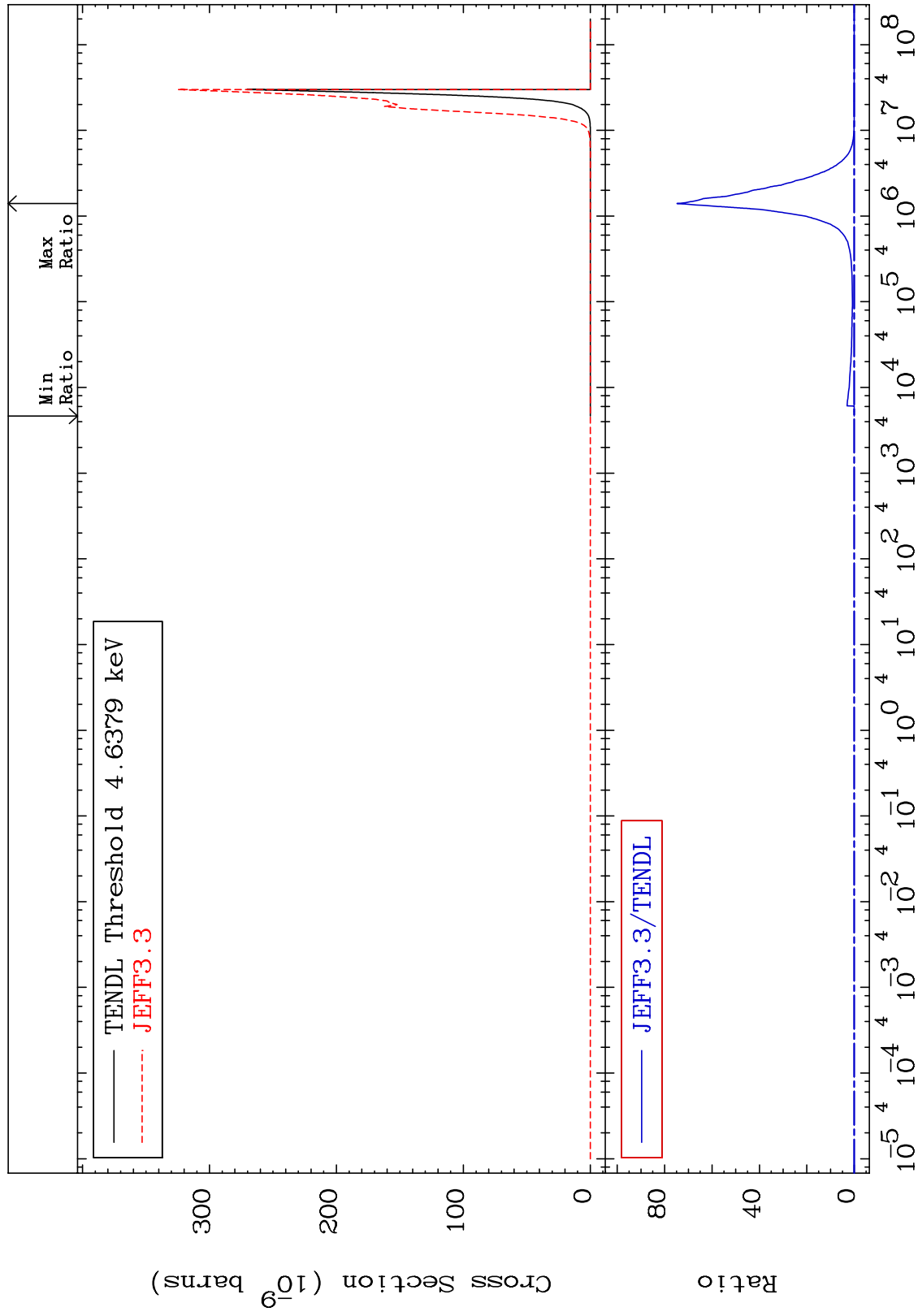
MAT 6034

(n,2α)

60-Nd-145

Cross Section

-100.0 To 9999. %

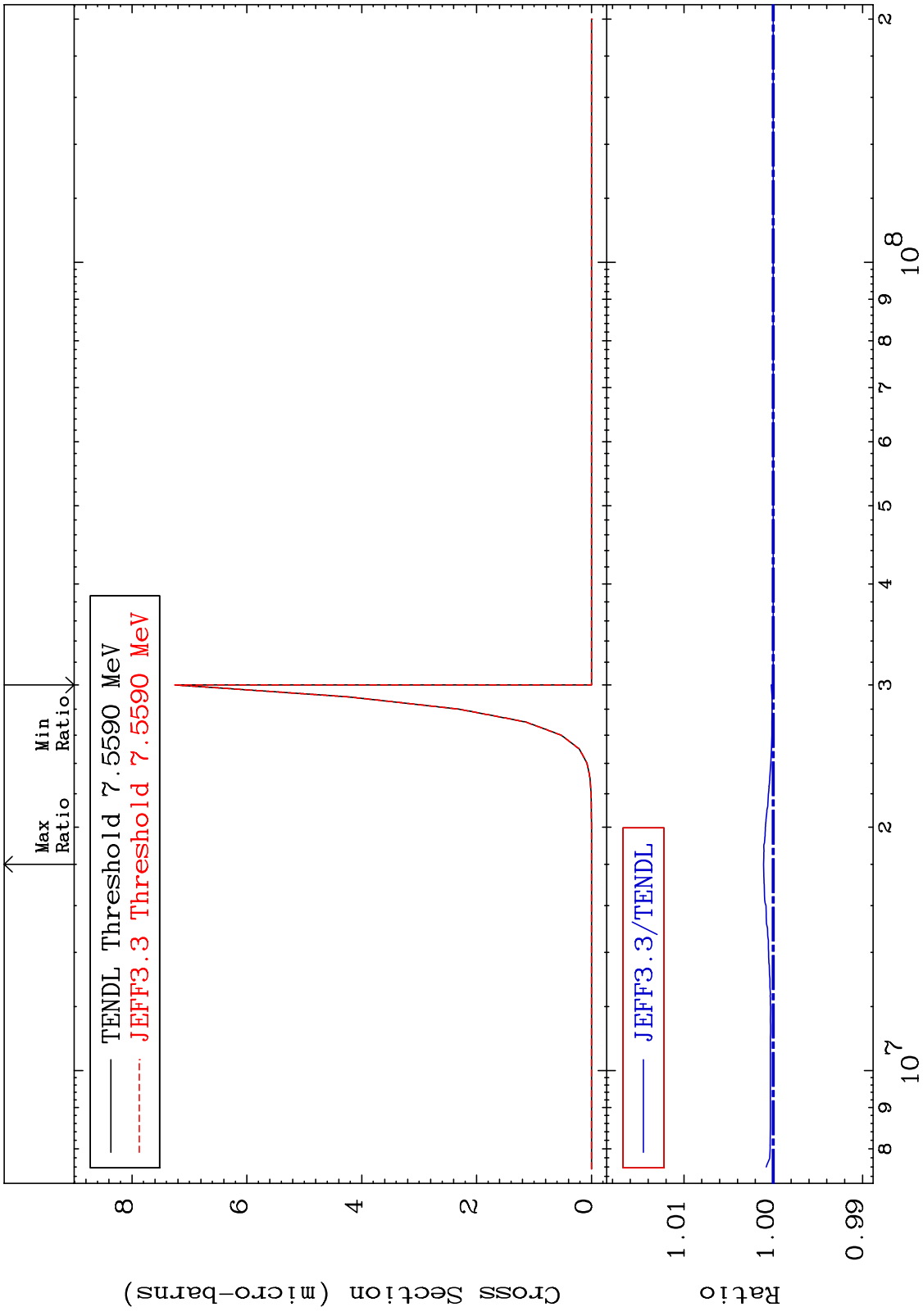


56

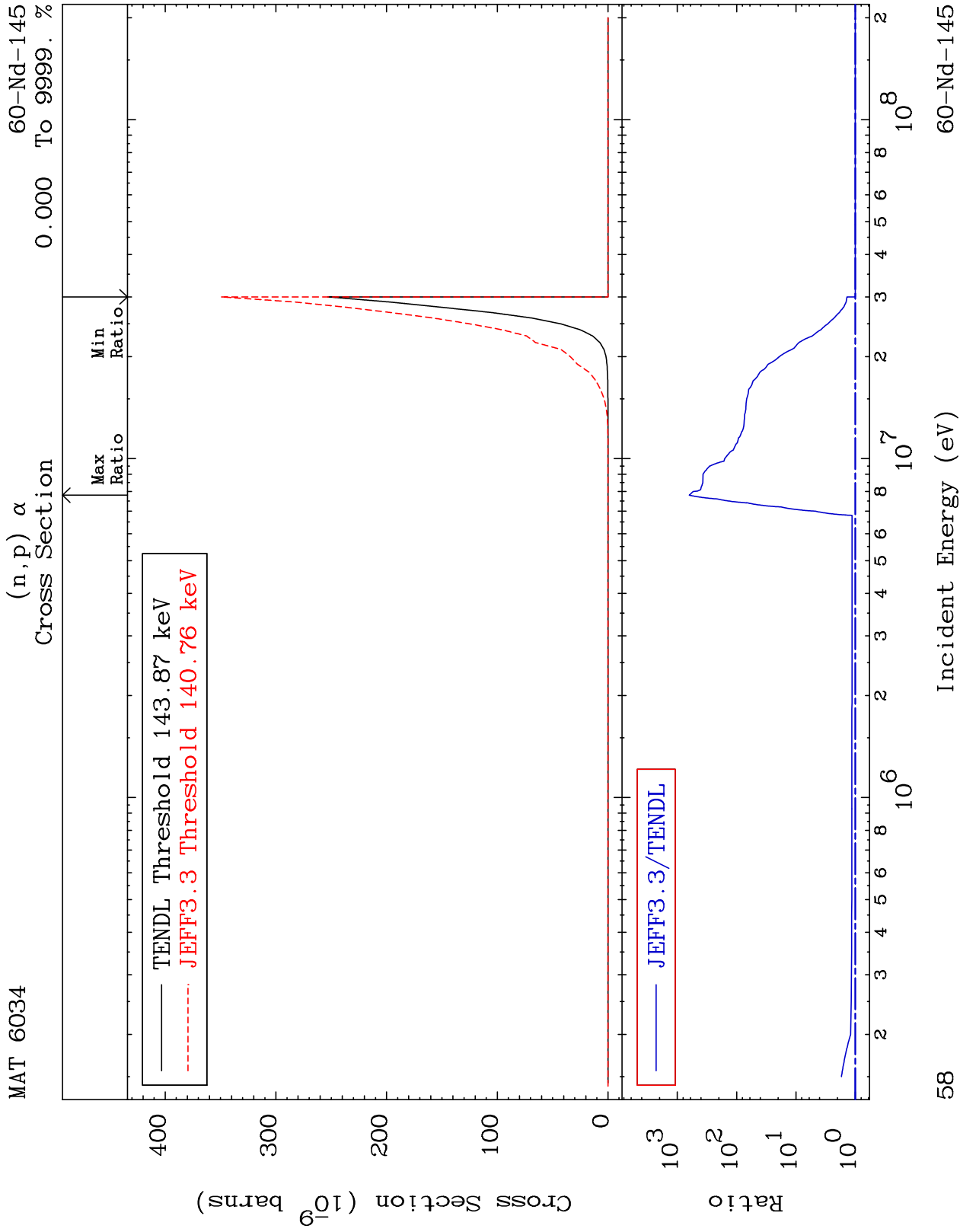
Incident Energy (eV)

60-Nd-145

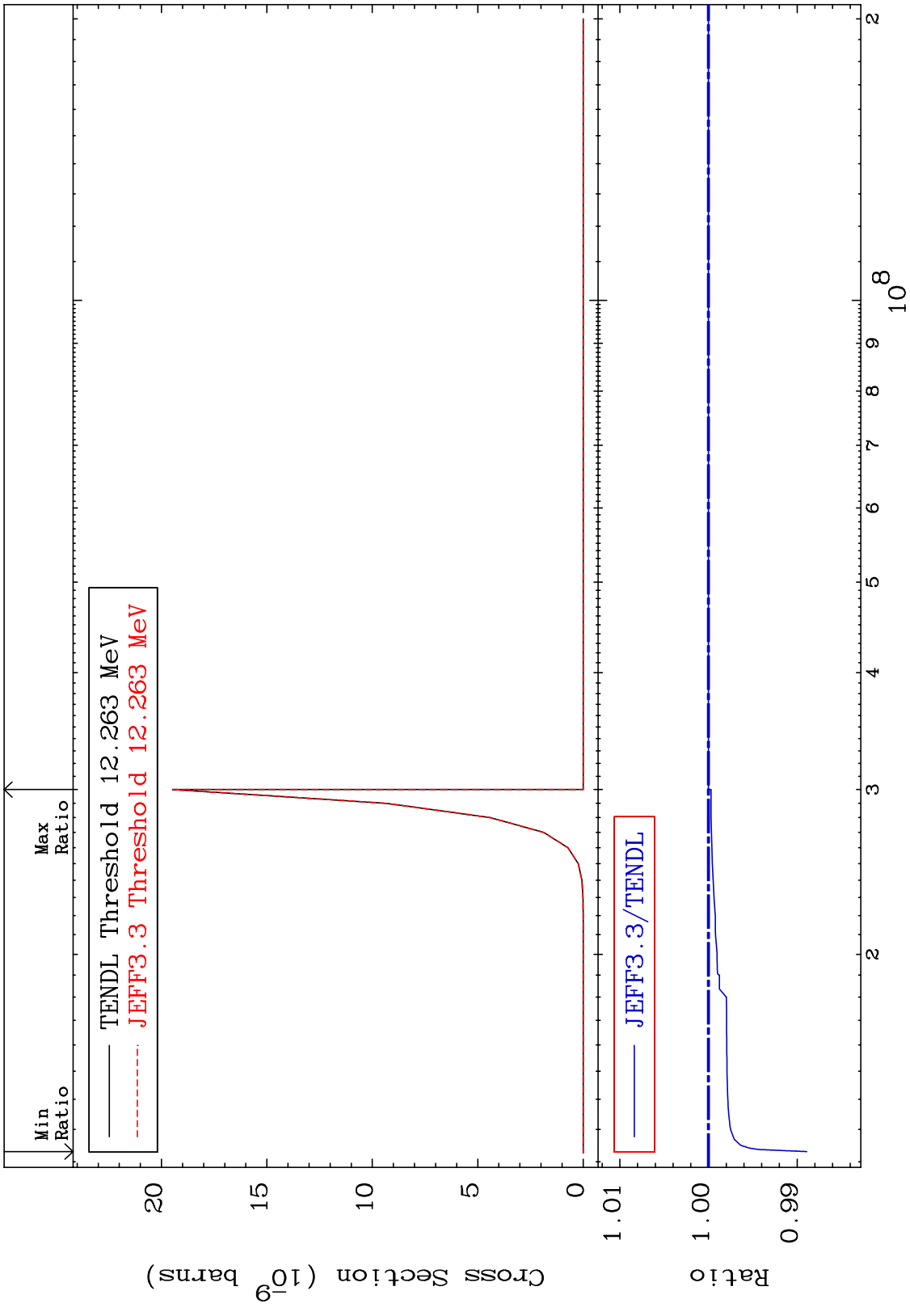
MAT 6034 (n,2p) Cross Section 60-Nd-145 To 0.108 %



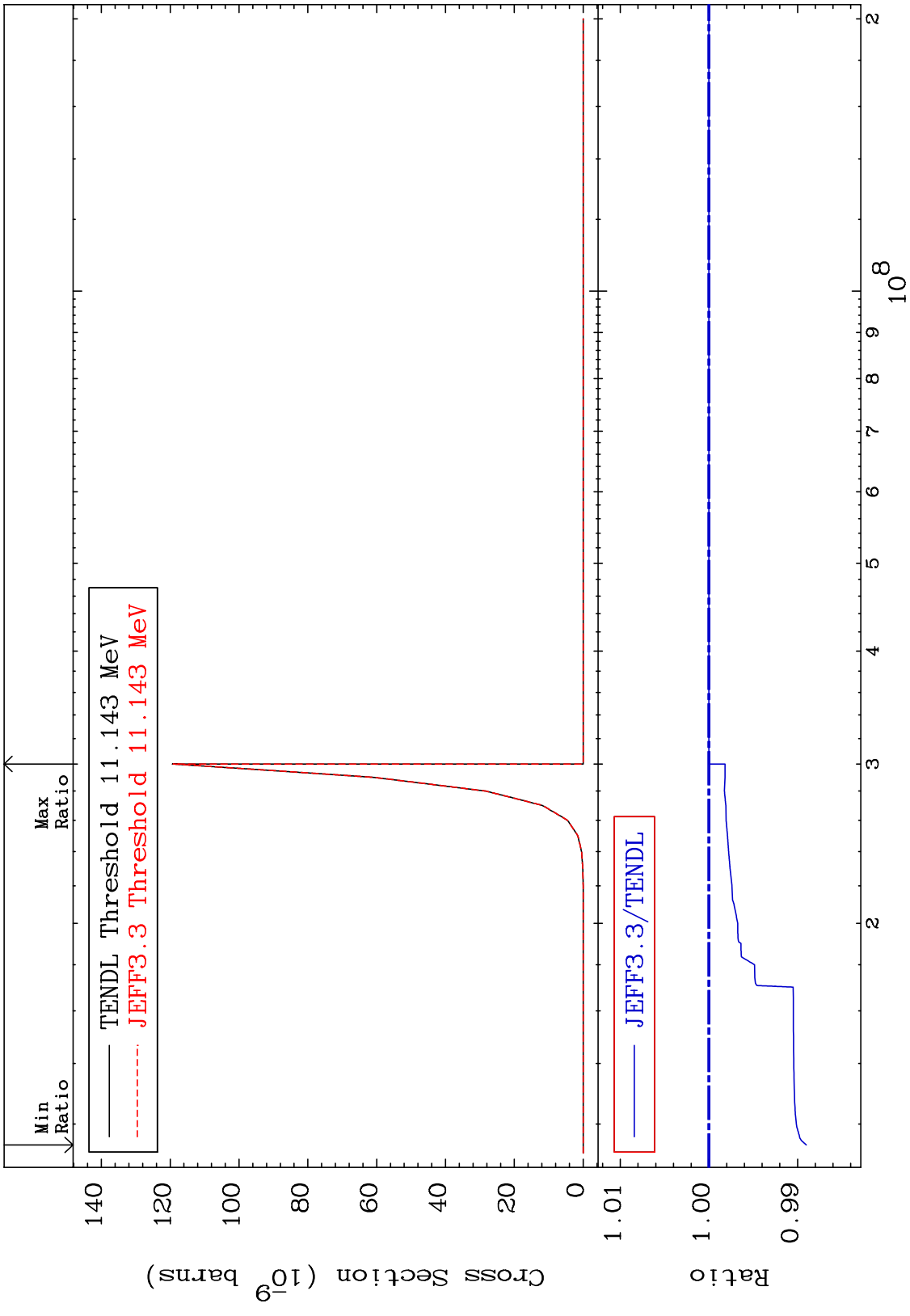
57 Incident Energy (eV) 60-Nd-145



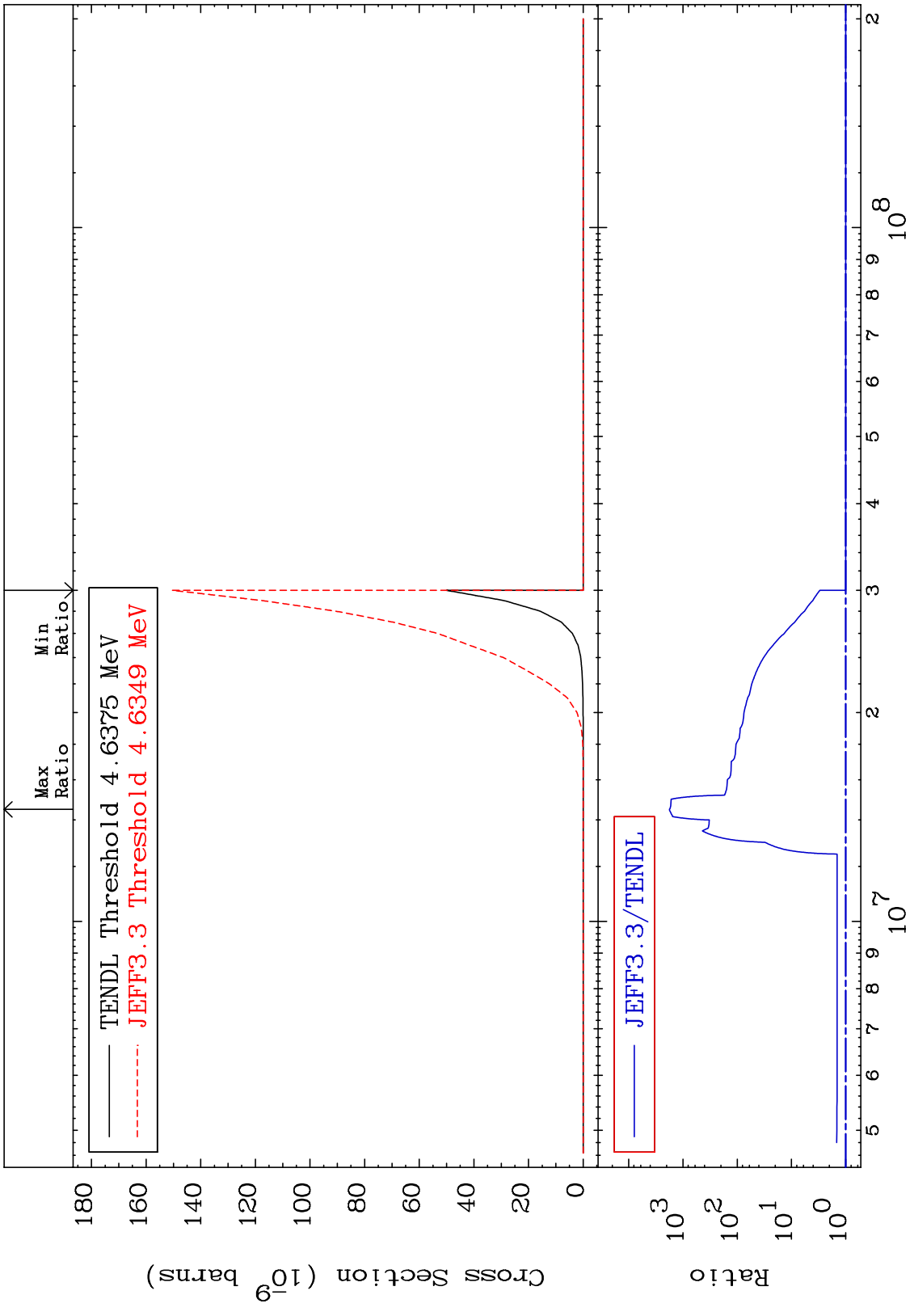
MAT 6034 (n,p) d 60-Nd-145  
 Cross Section -1.109 To 0.000 %



MAT 6034 (n,p) t 60-Nd-145  
Cross Section -1.099 To 0.000 %



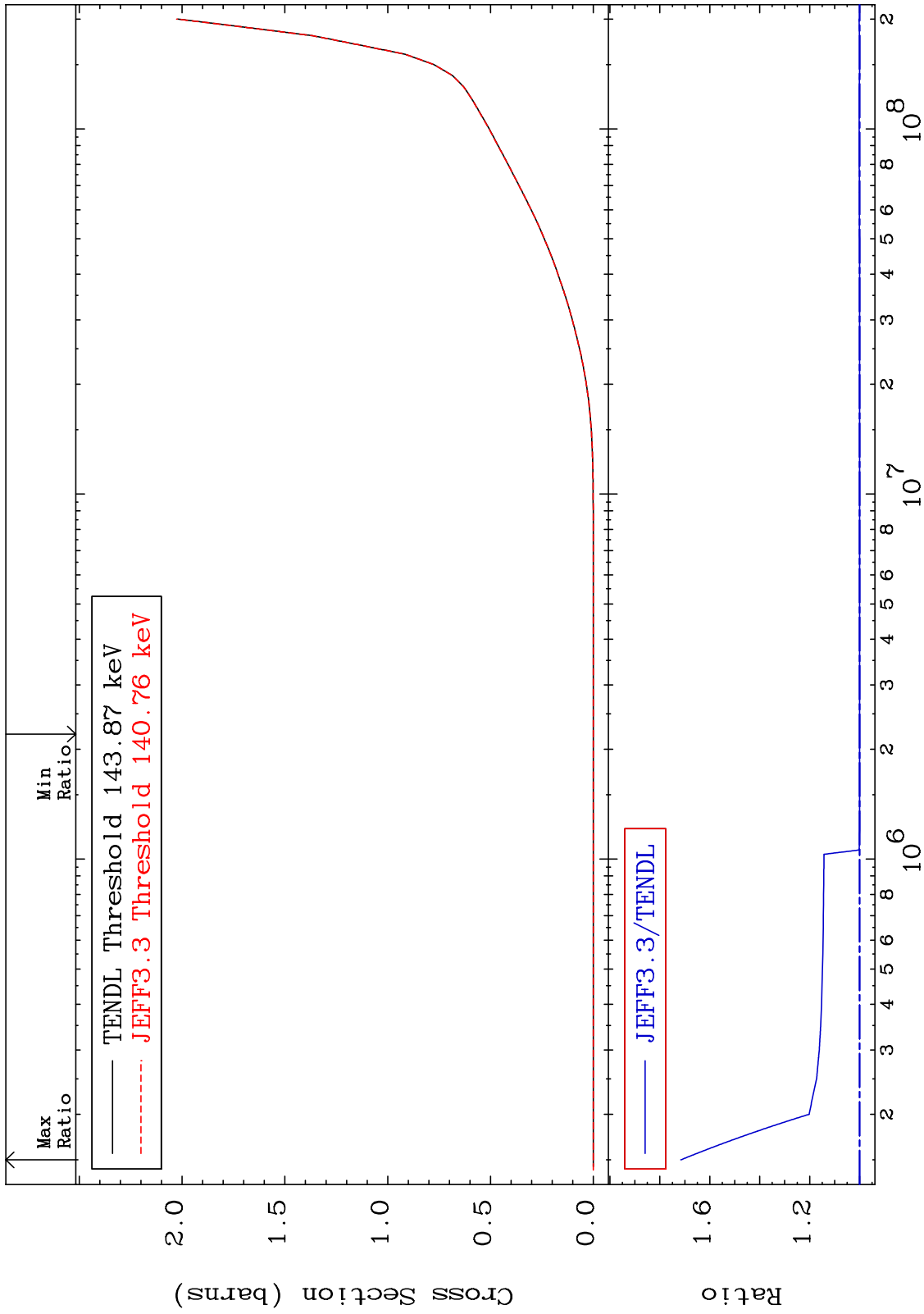
MAT 6034 (n,d)  $\alpha$  60-Nd-145  
 Cross Section To 9999. %  
 0.000



MAT 6034

Hydrogen Production  
Cross Section

$^{60}\text{Nd-145}$   
-0.017 To 71.61 %

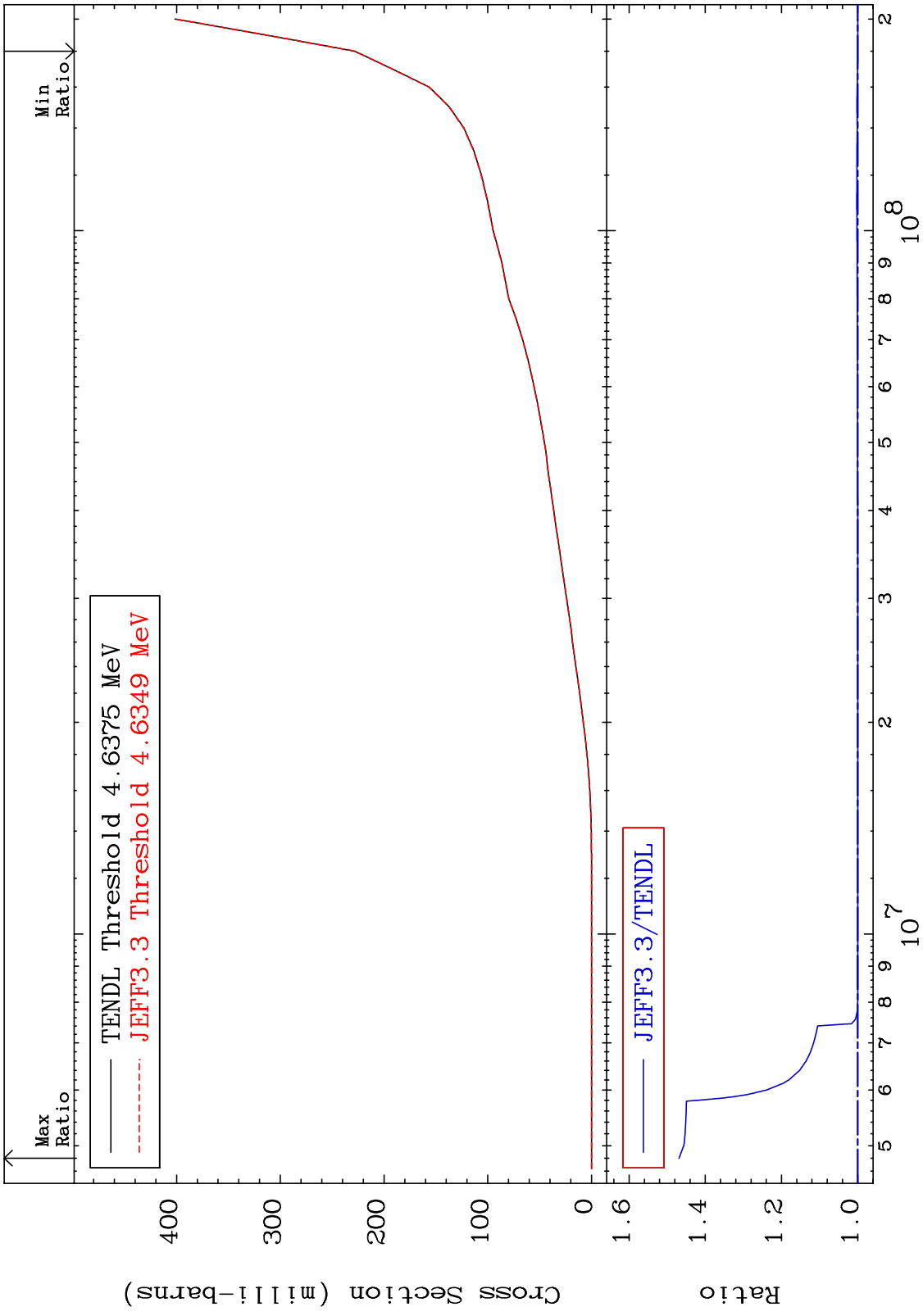


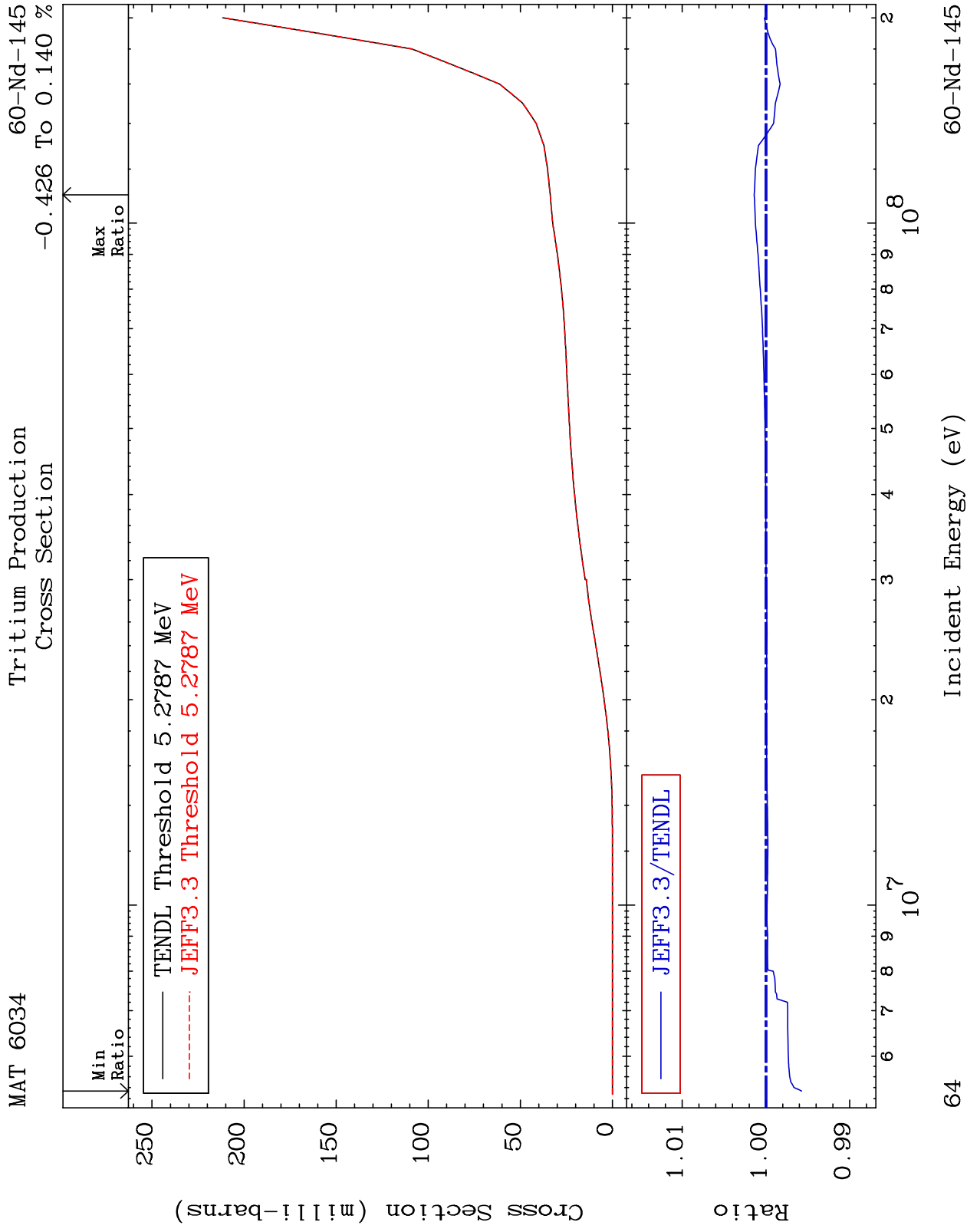
62

Incident Energy (eV)

$^{60}\text{Nd-145}$

MAT 6034 Deuterium Production Cross Section 60-Nd-145  
 -0.033 To 46.90 %

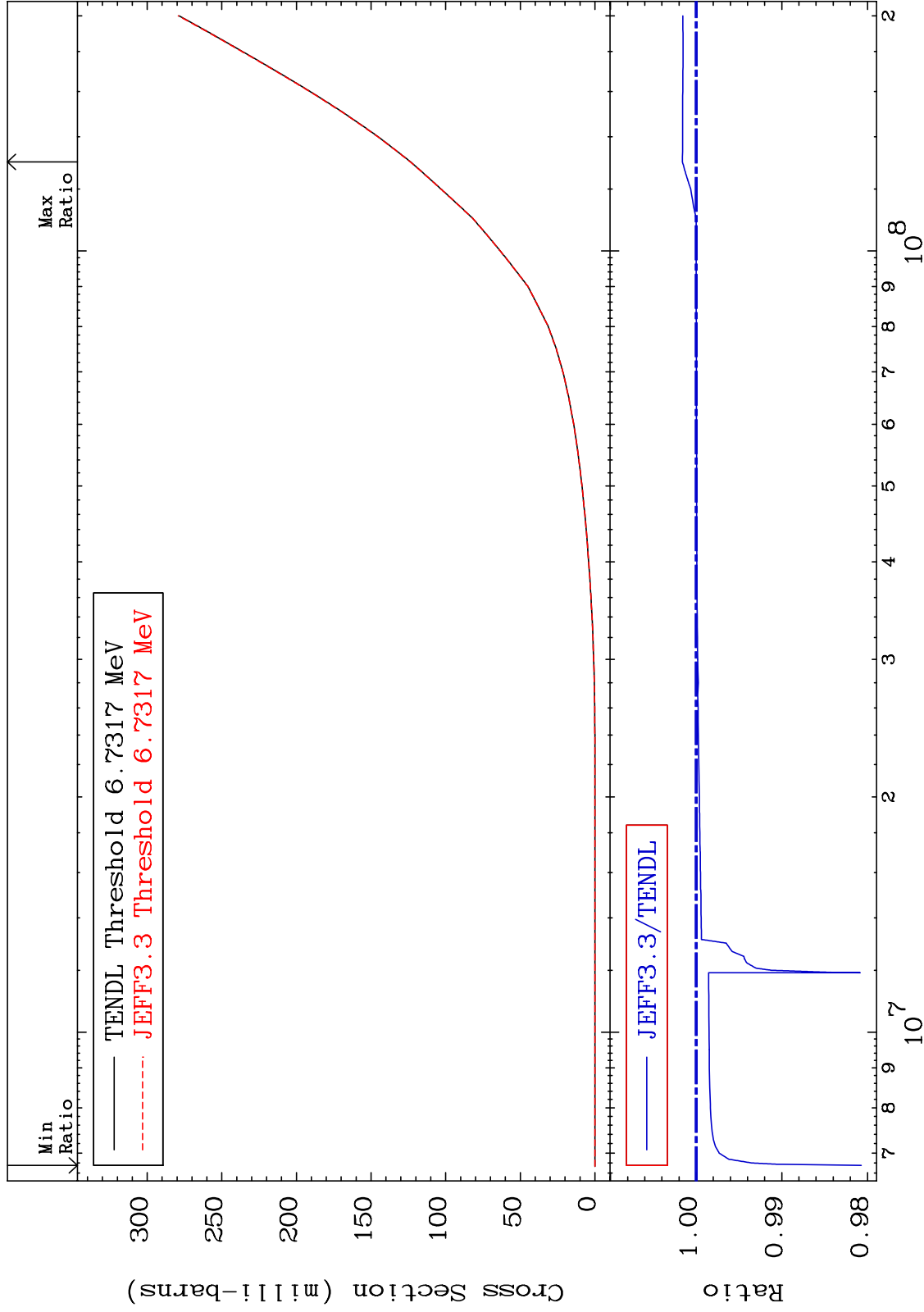




MAT 6034

He-3 Production  
Cross Section

60-Nd-145  
-1.928 To 0.160 %



65

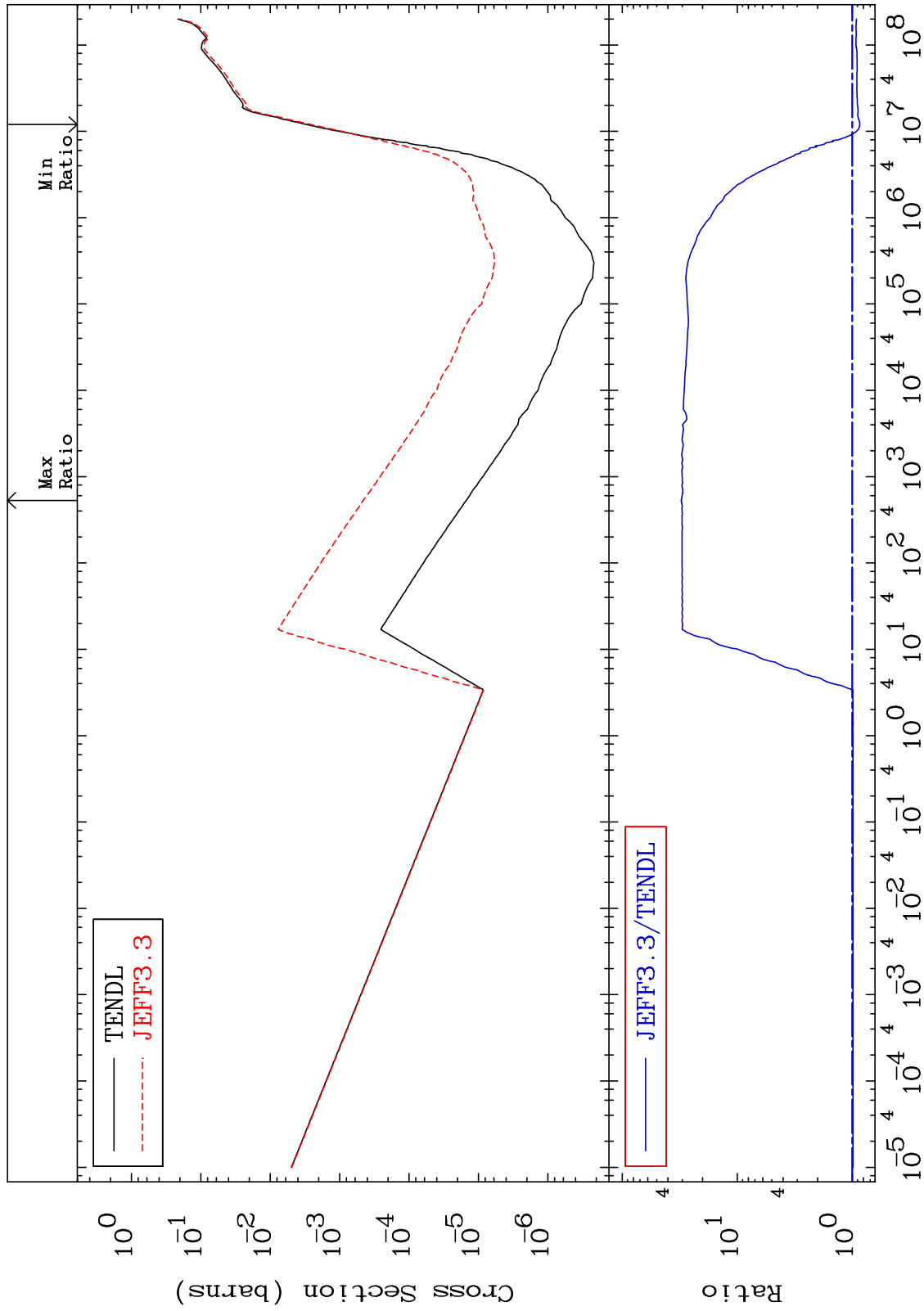
Incident Energy (eV)

60-Nd-145

MAT 6034

He-4 Production  
Cross Section

60-Nd-145  
-13.93 To 2966. %



66

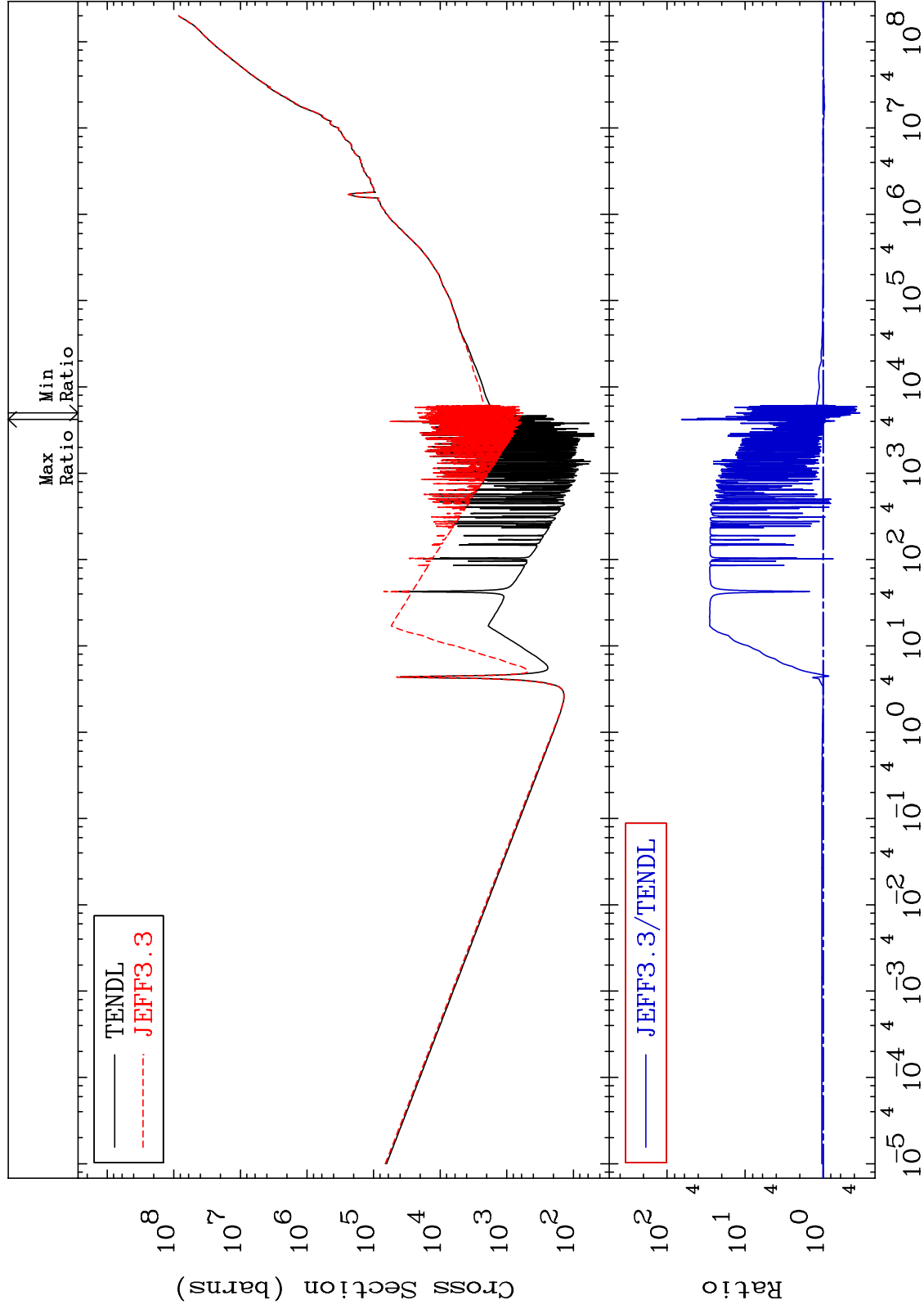
Incident Energy (eV)

60-Nd-145

MAT 6034

Kerma total (eV-barns)  
Cross Section

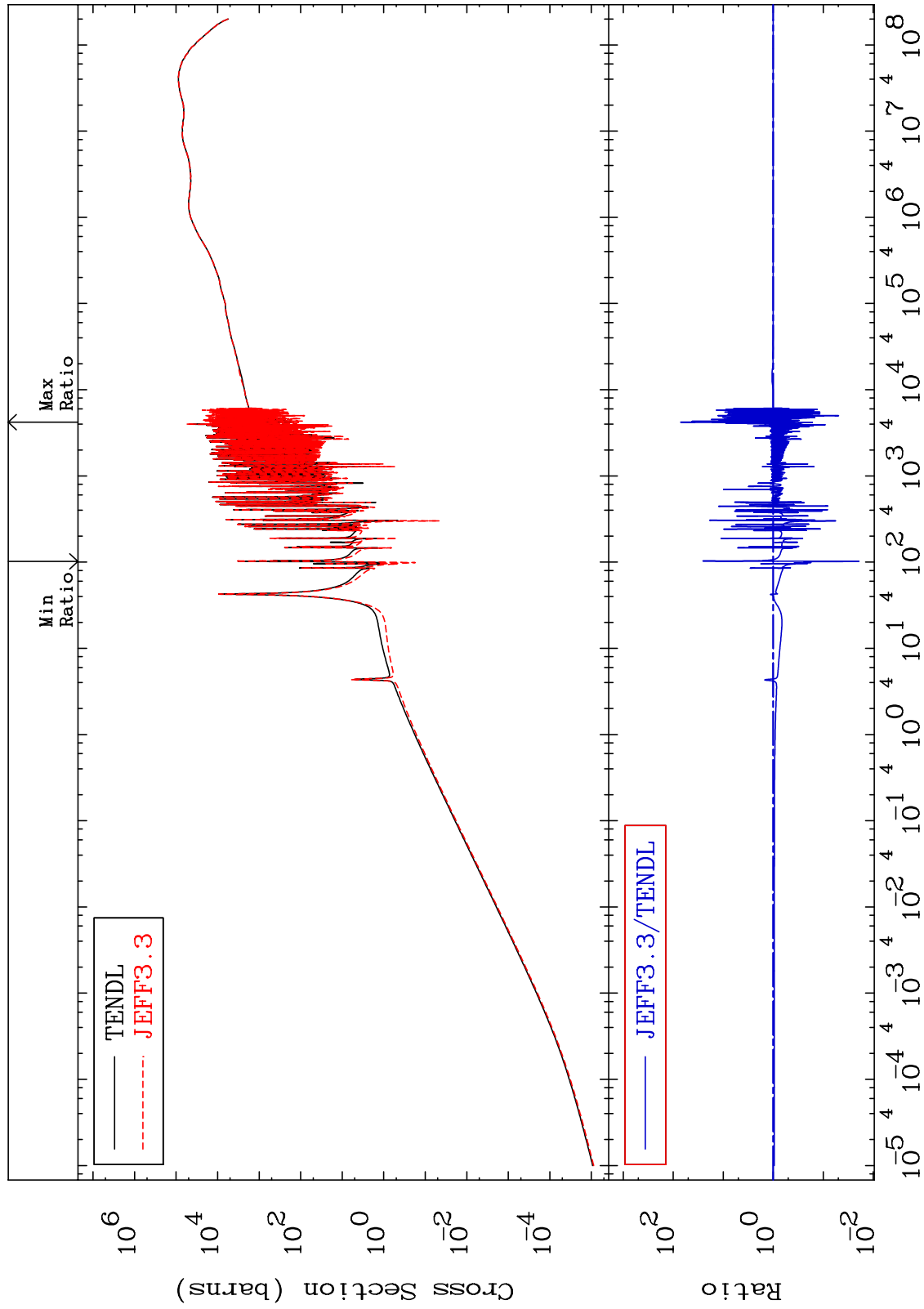
60-Nd-145  
-66.02 To 6438. %



MAT 6034

Kerma elastic  
Cross Section

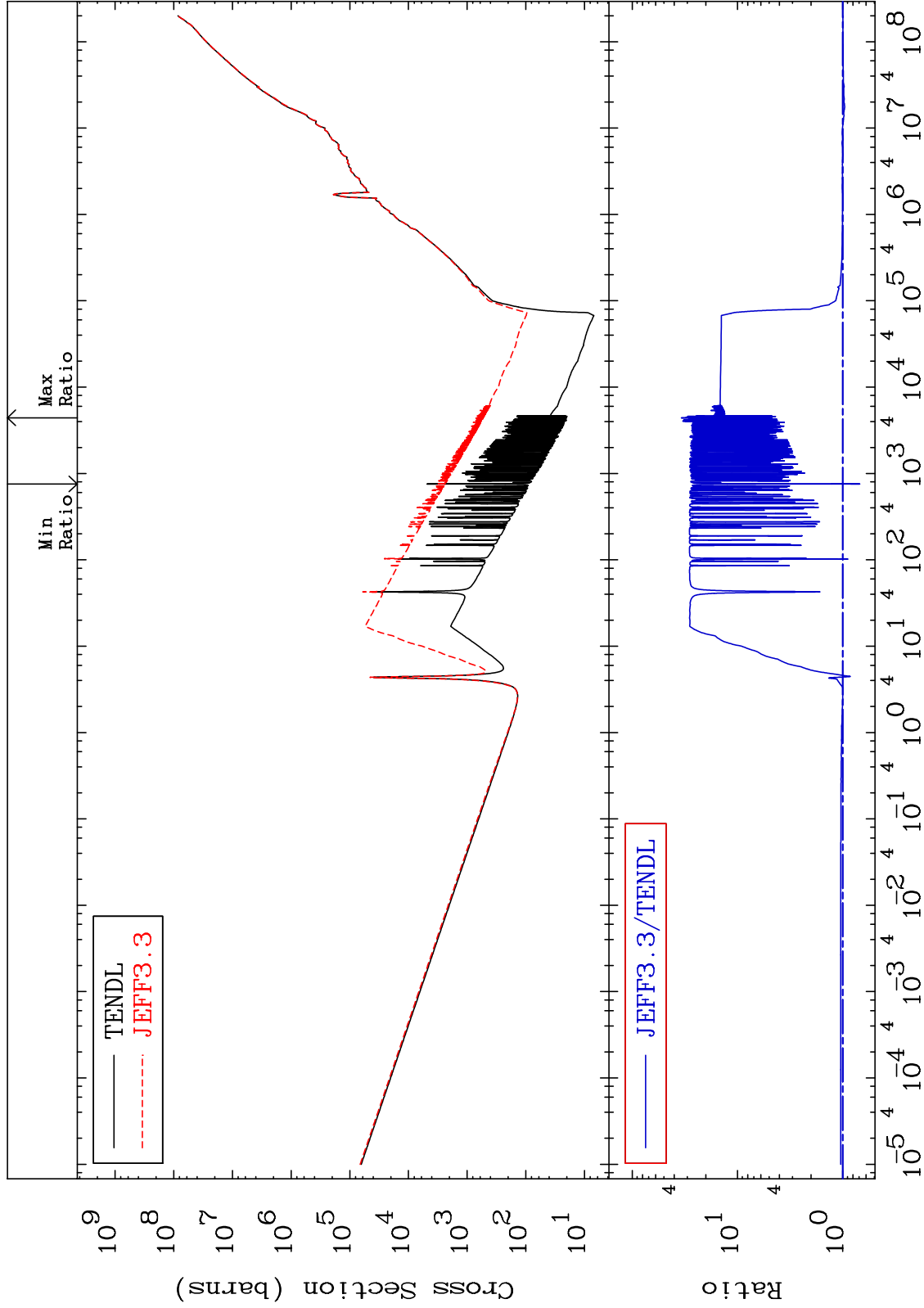
60-Nd-145  
-98.08 To 6929. %



MAT 6034

Kerma non-elastic (all but mt2)  
Cross Section

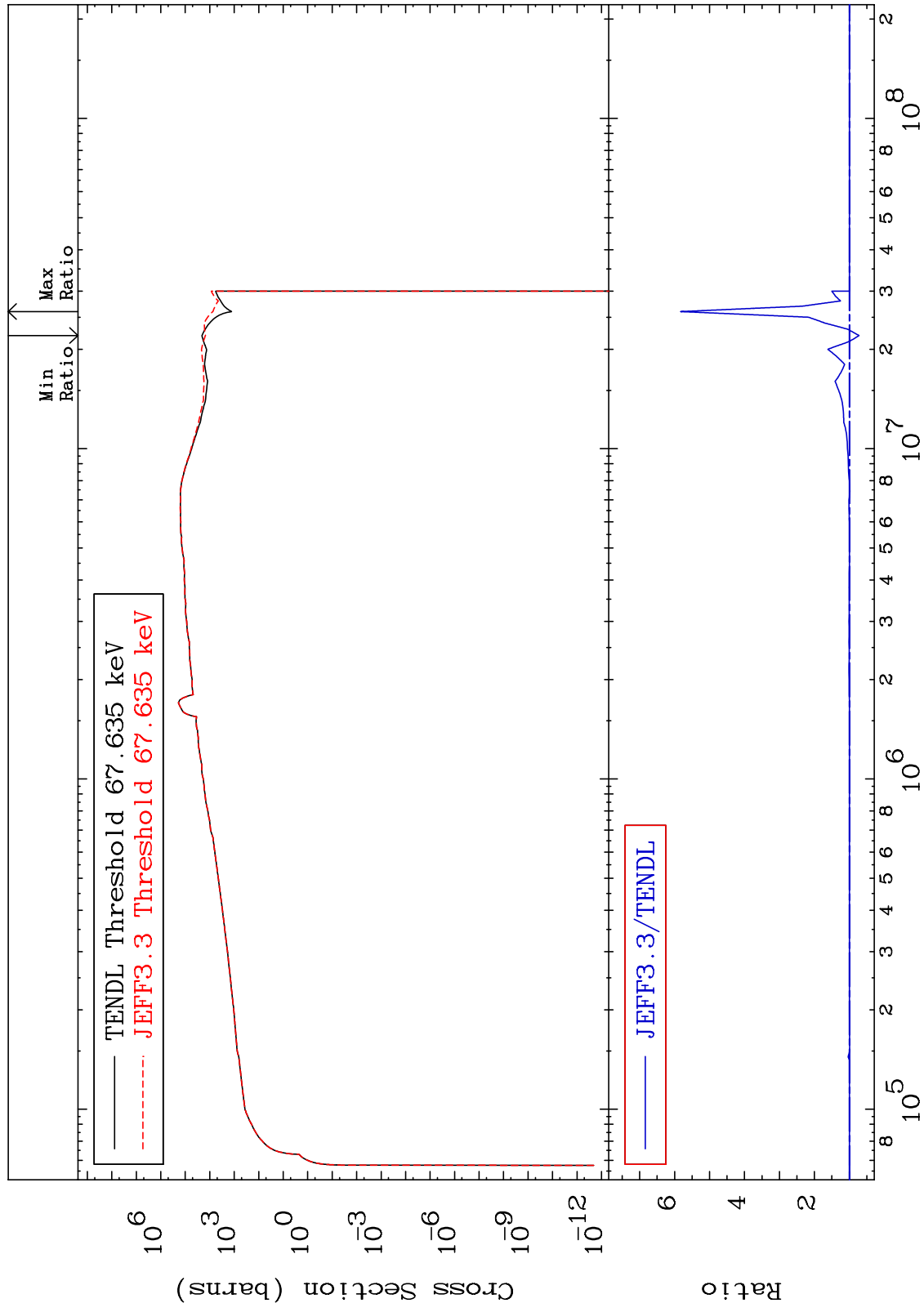
60-Nd-145  
-31.13 To 3327. %



MAT 6034

Kerma inelastic (mt51-91)  
Cross Section

60-Nd-145  
-27.78 To 482.0 %



70

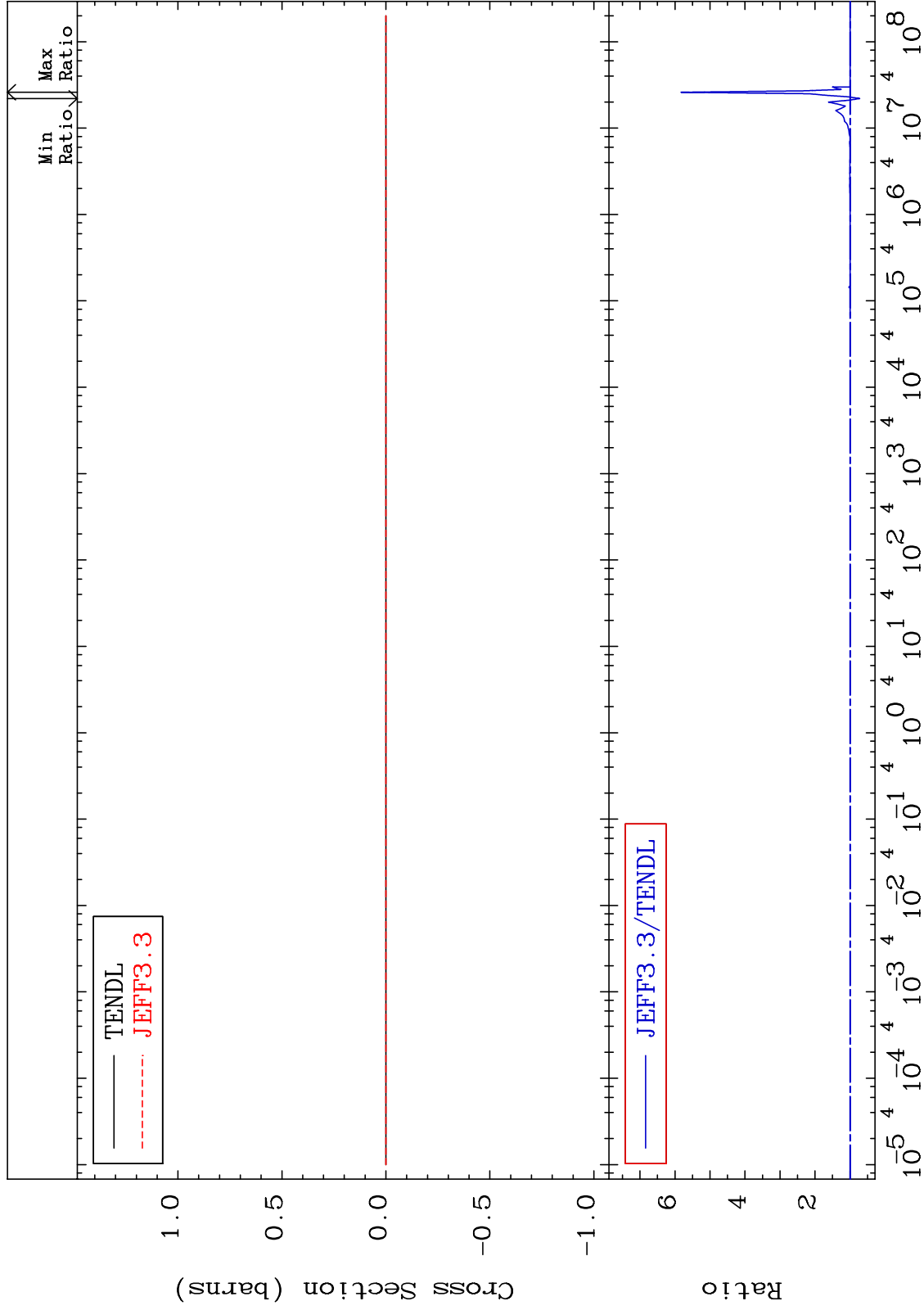
Incident Energy (eV)

60-Nd-145

MAT 6034

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

60-Nd-145  
-27.78 To 482.0 %



71

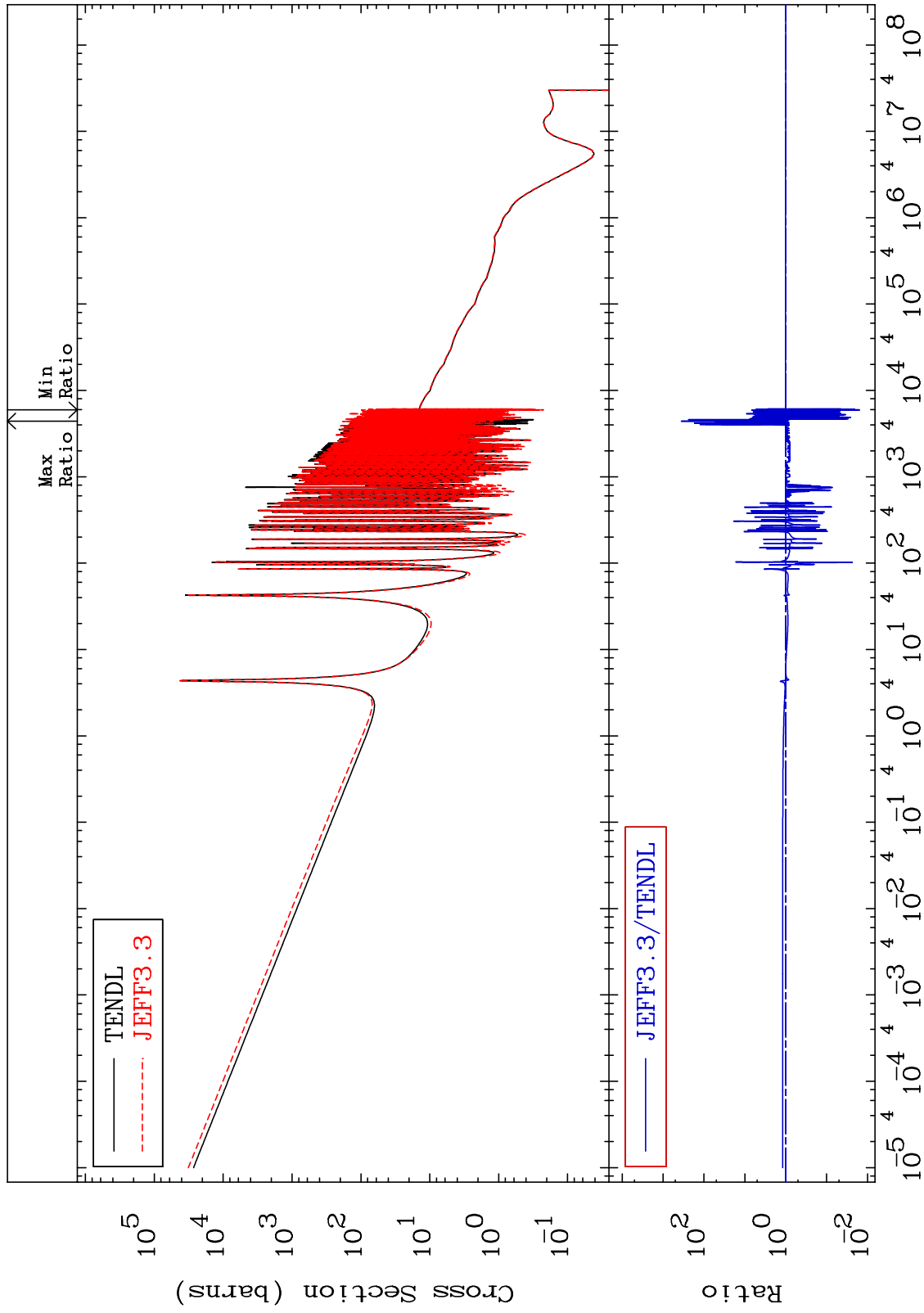
Incident Energy (eV)

60-Nd-145

MAT 6034

Kerma capture (mt102)  
Cross Section

60-Nd-145  
-98.46 To 9999. %



72

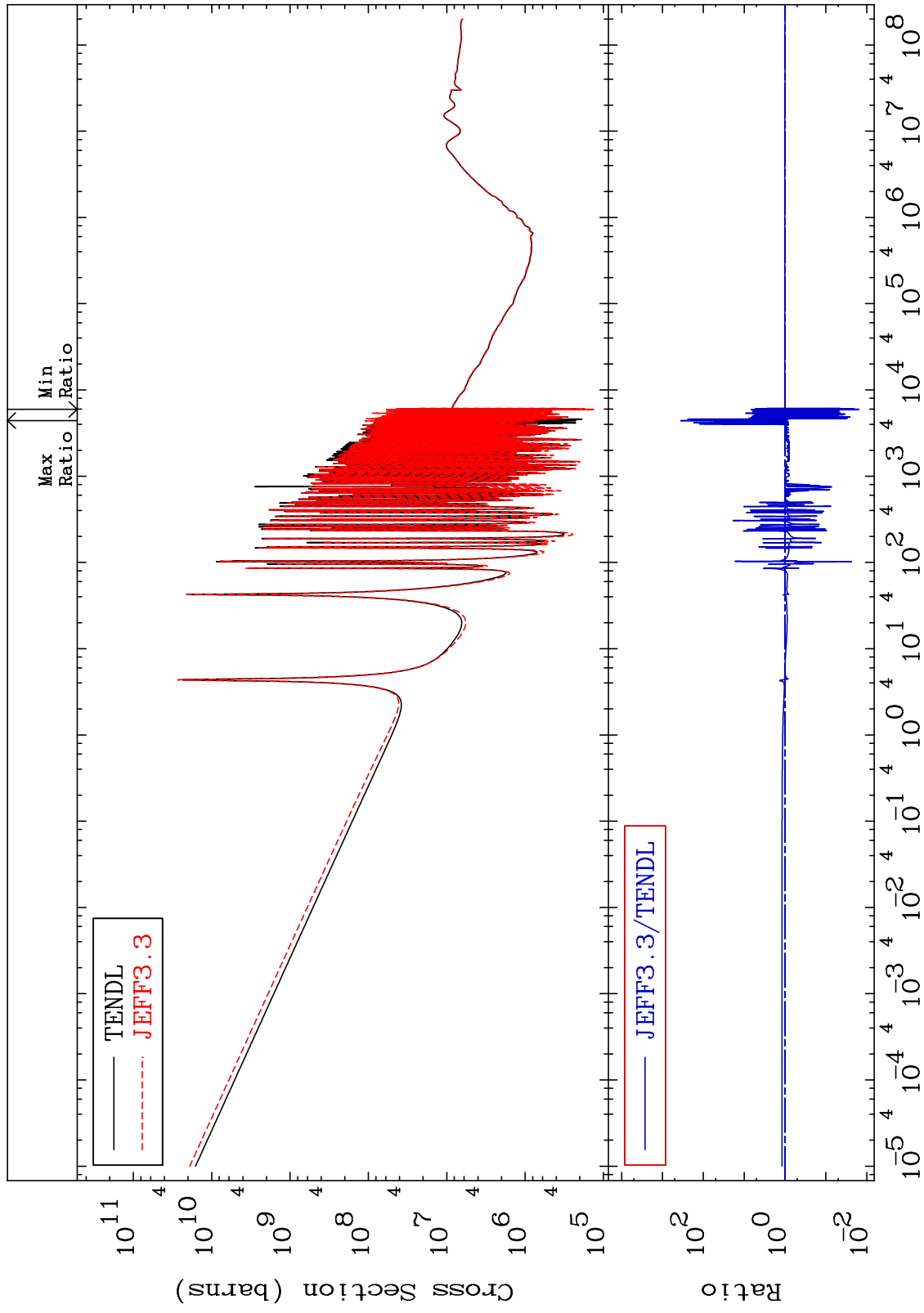
Incident Energy (eV)

60-Nd-145

MAT 6034

Total photon (eV-barns)  
Cross Section

60-Nd-145  
-98.46 To 9999. %



73

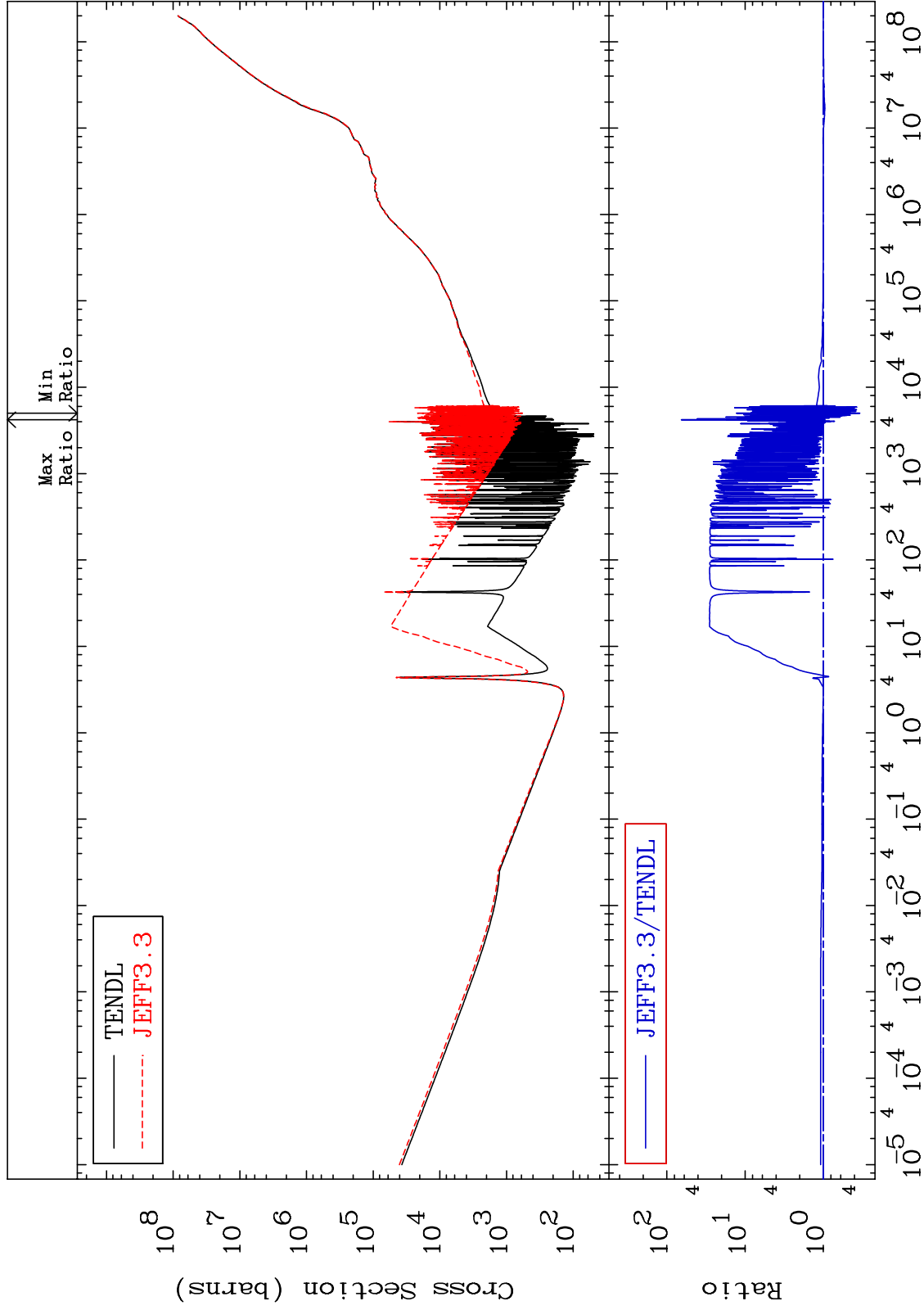
Incident Energy (eV)

60-Nd-145

MAT 6034

Total kinematic kerma (high limit)  
Cross Section

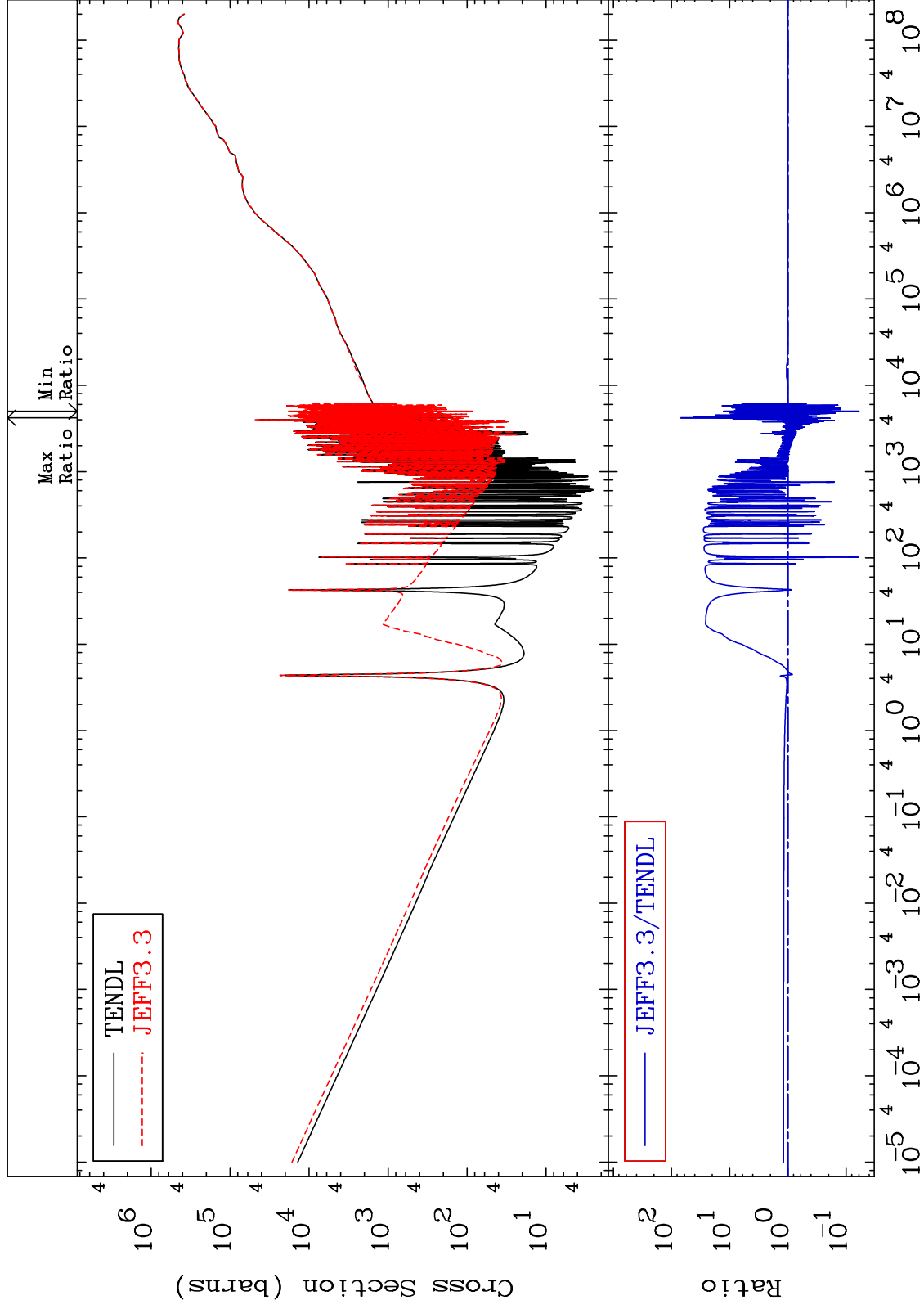
60-Nd-145  
-65.83 To 6436. %



MAT 6034

Dpa total (eV-barns)  
Cross Section

60-Nd-145  
-94.01 To 6862. %



75

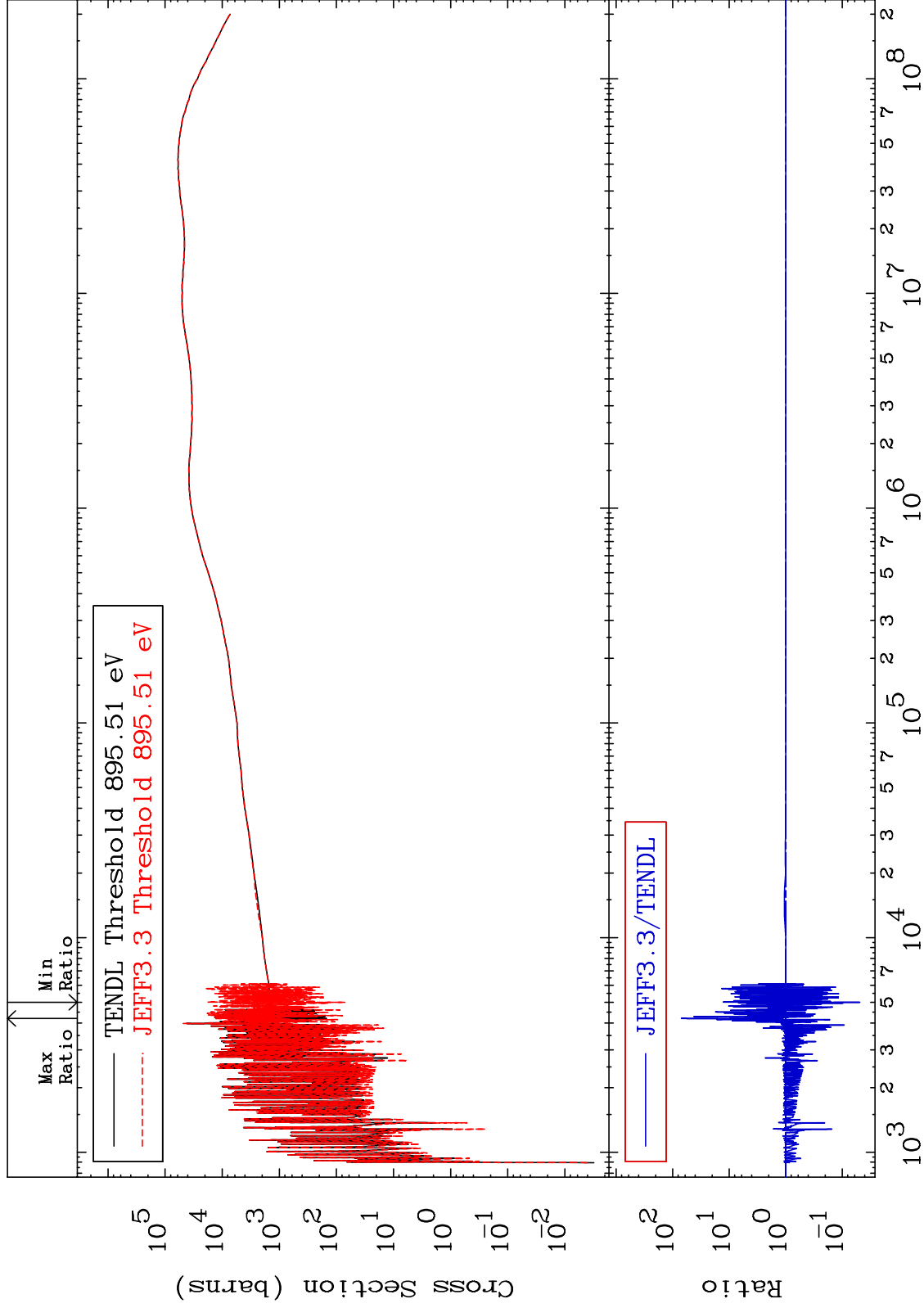
Incident Energy (eV)

60-Nd-145

MAT 6034

Dpa elastic (mt2)  
Cross Section

60-Nd-145  
-95.11 To 6929. %

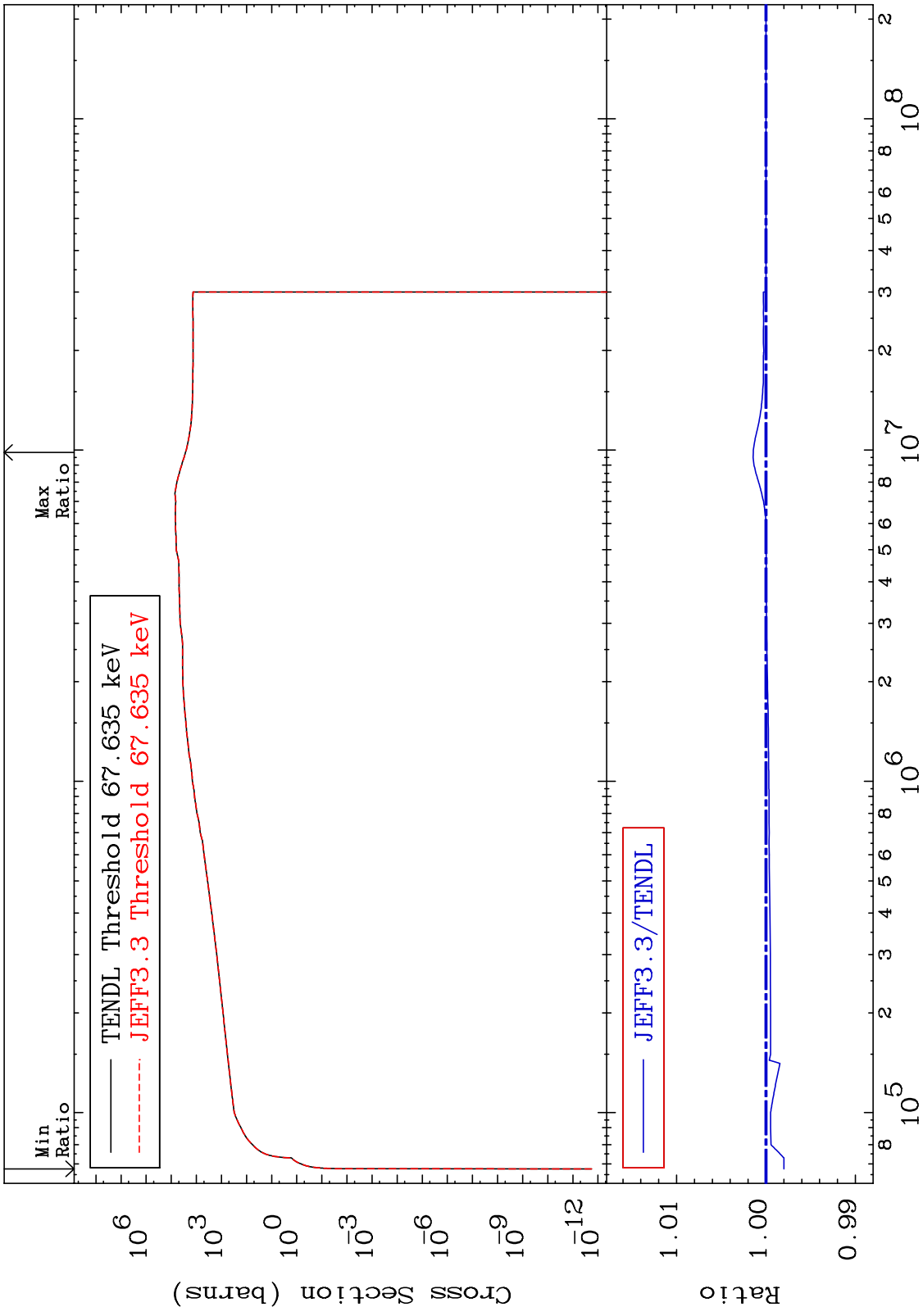


76

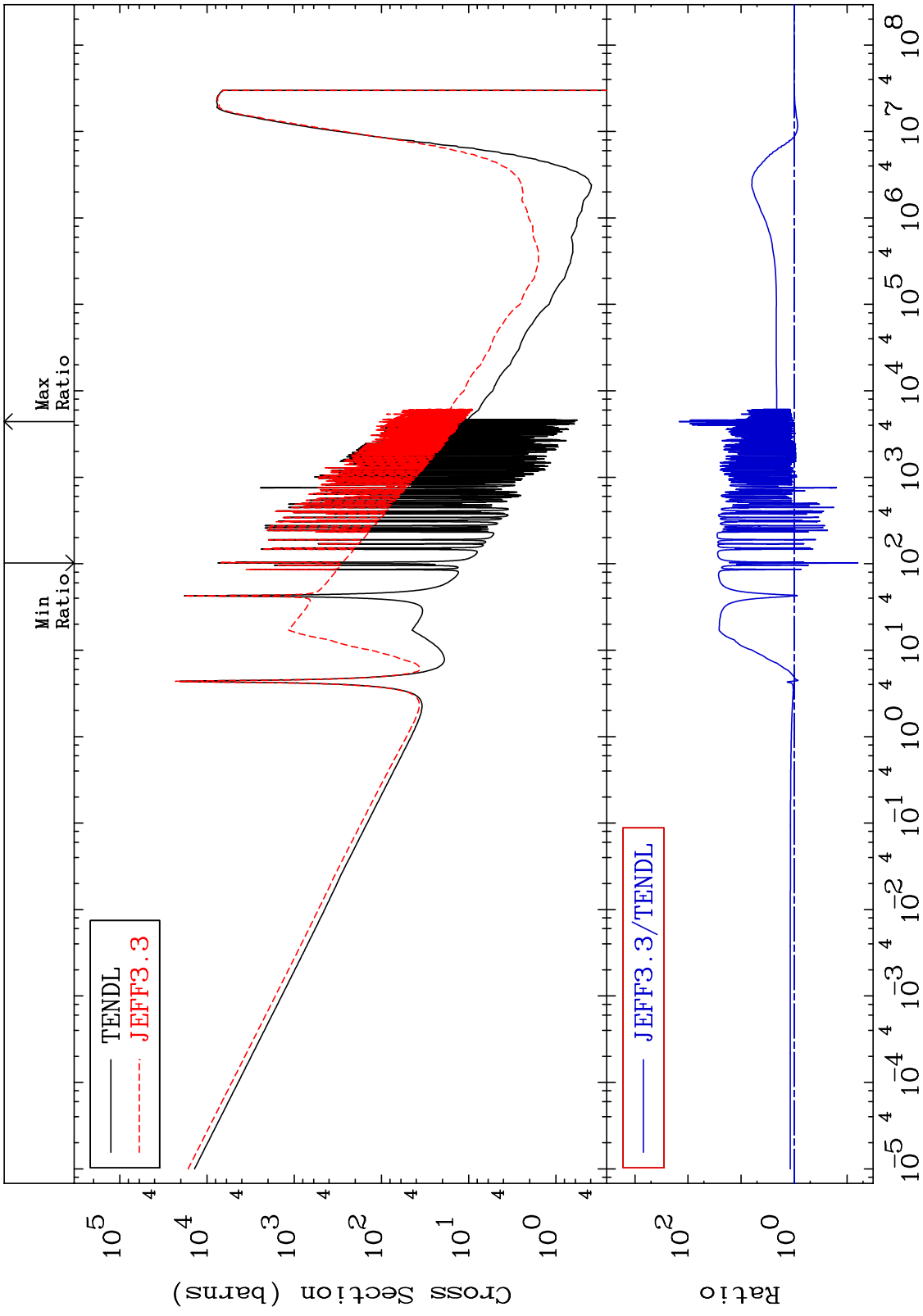
Incident Energy (eV)

60-Nd-145

MAT 6034 Dpa inelastic (mt51-91) 60-Nd-145  
 Cross Section -0.199 To 0.145 %



MAT 6034      Dpa disappearance (mt102 -120)      60-Nd-145  
 Cross Section      -93.72 To 9999. %

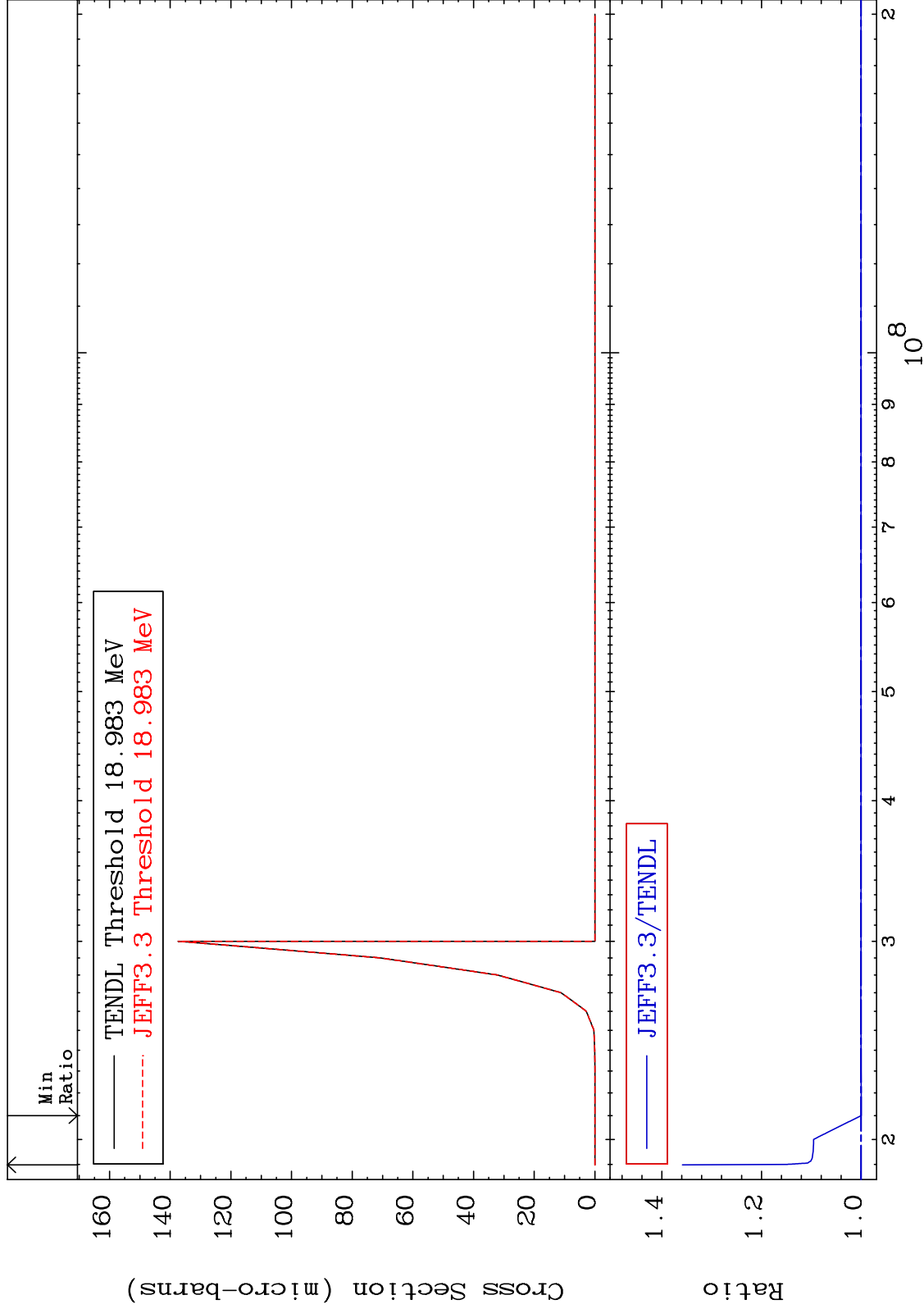


MAT 6034

(n,2n) d:59-Pr-142g

60-Nd-145

Radionuclide Production Cross Section -0.034 To 35.86 %



79

Incident Energy (eV)

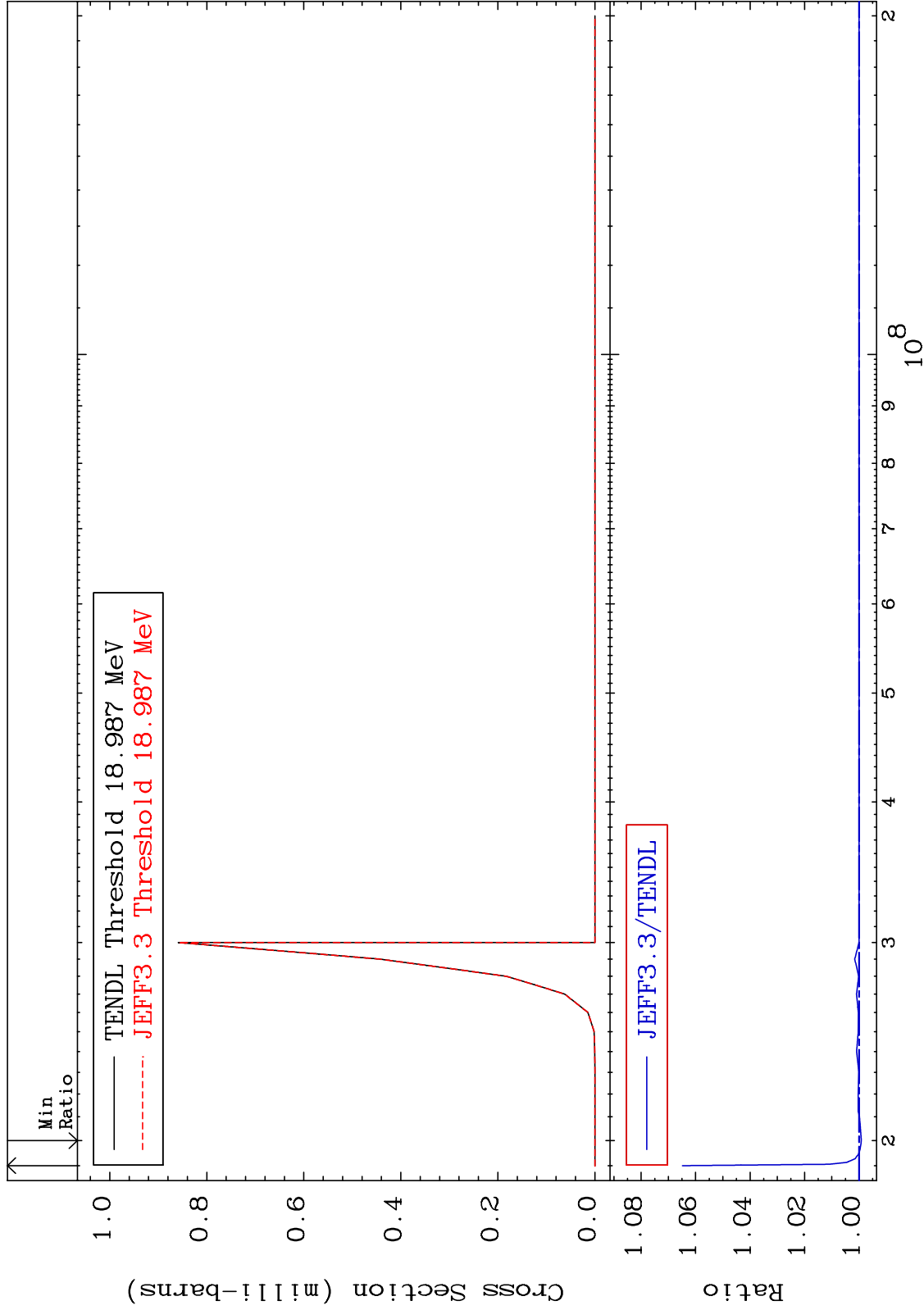
60-Nd-145

MAT 6034

(n,2n) d:59-Pr-142m1

60-Nd-145

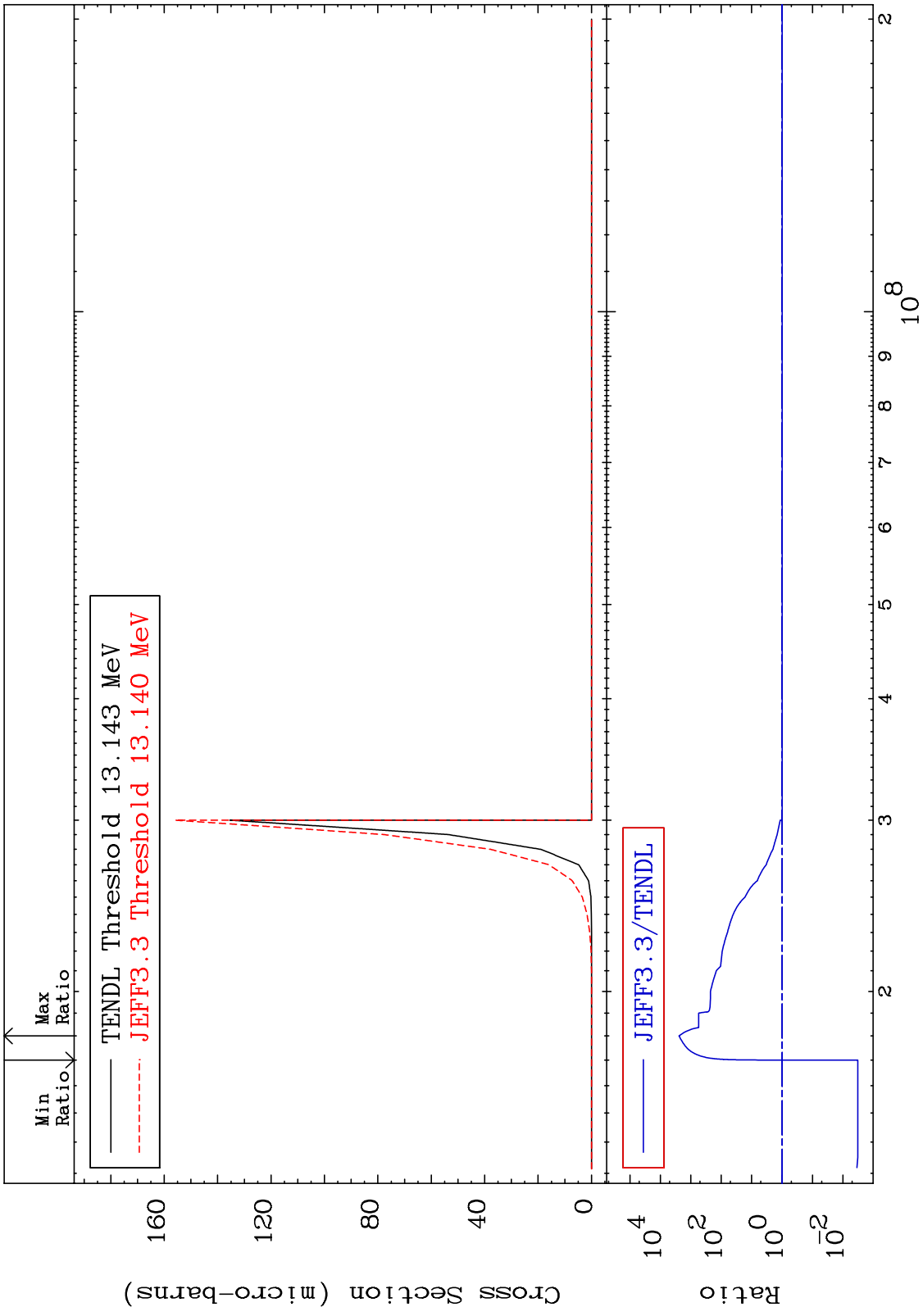
Radionuclide Production Cross Section -0.083 To 6.483 %



80

Incident Energy (eV)

60-Nd-145

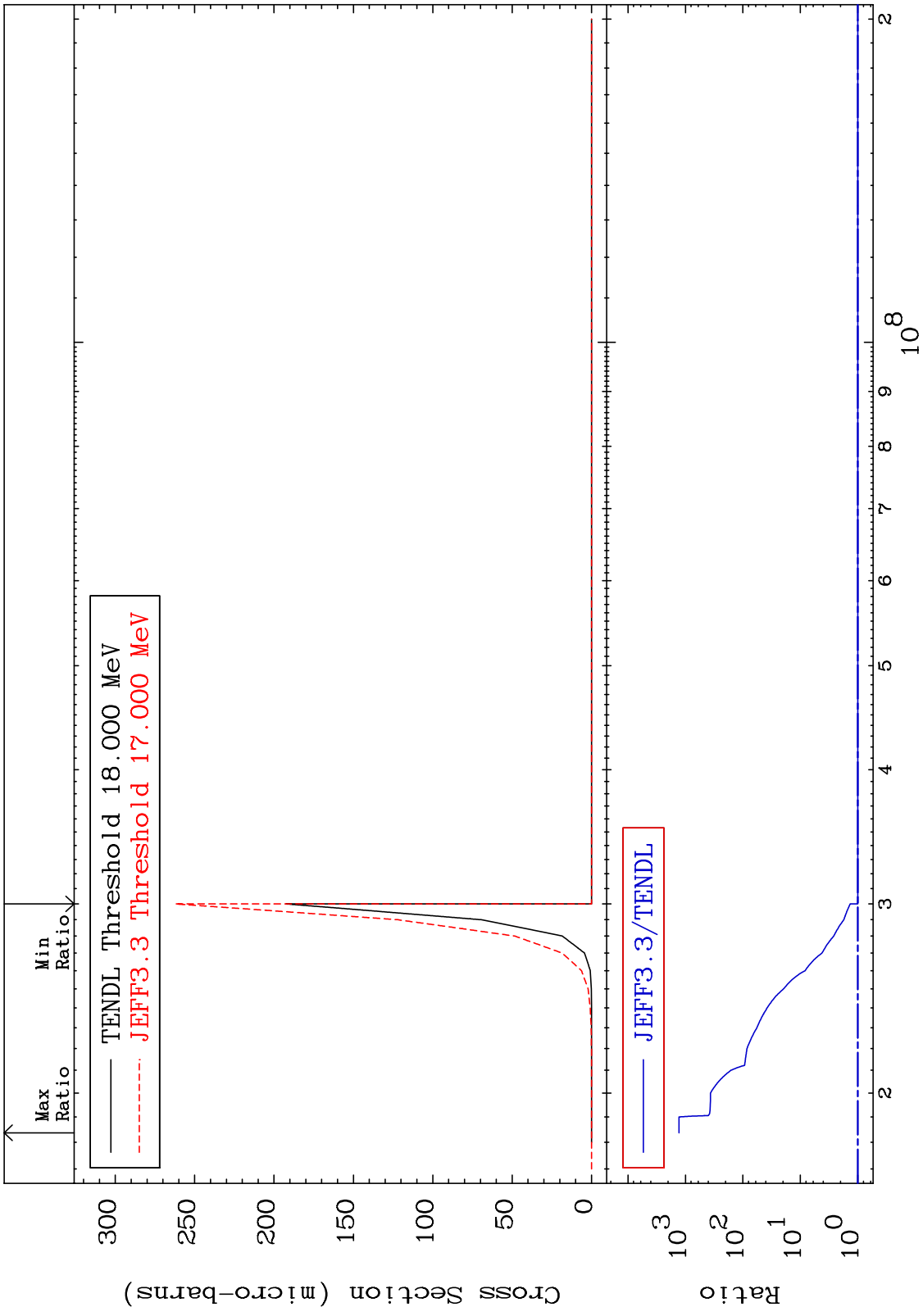


MAT 6034

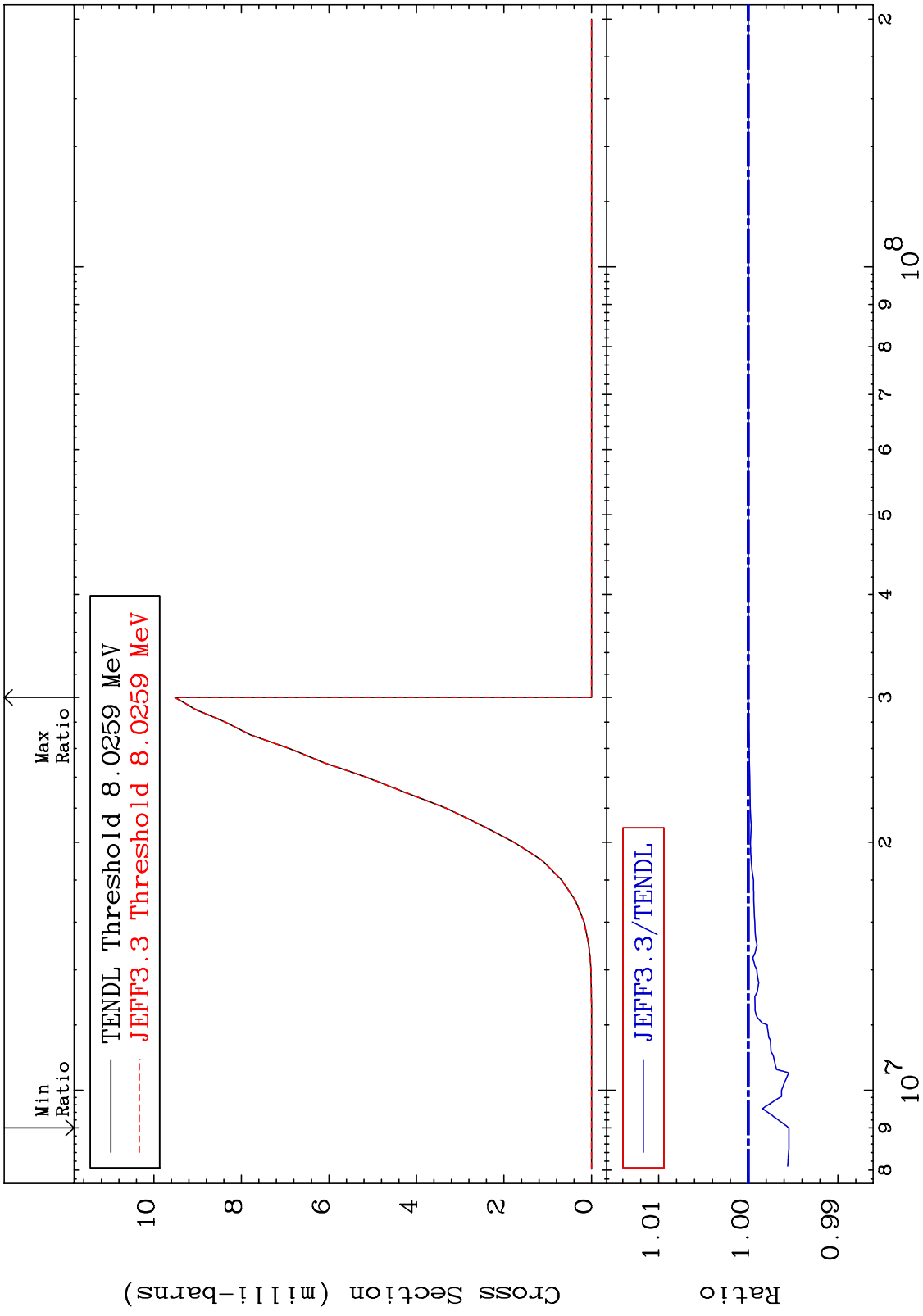
(n,3n)  $\alpha$ :58-Ce-139m2

60-Nd-145

Radionuclide Production Cross Section 0.000 To 9999. %



MAT 6034 (n, n') p:59-Pr-144g 60-Nd-145  
 Radionuclide Production Cross Section -0.454 To 0.005 %

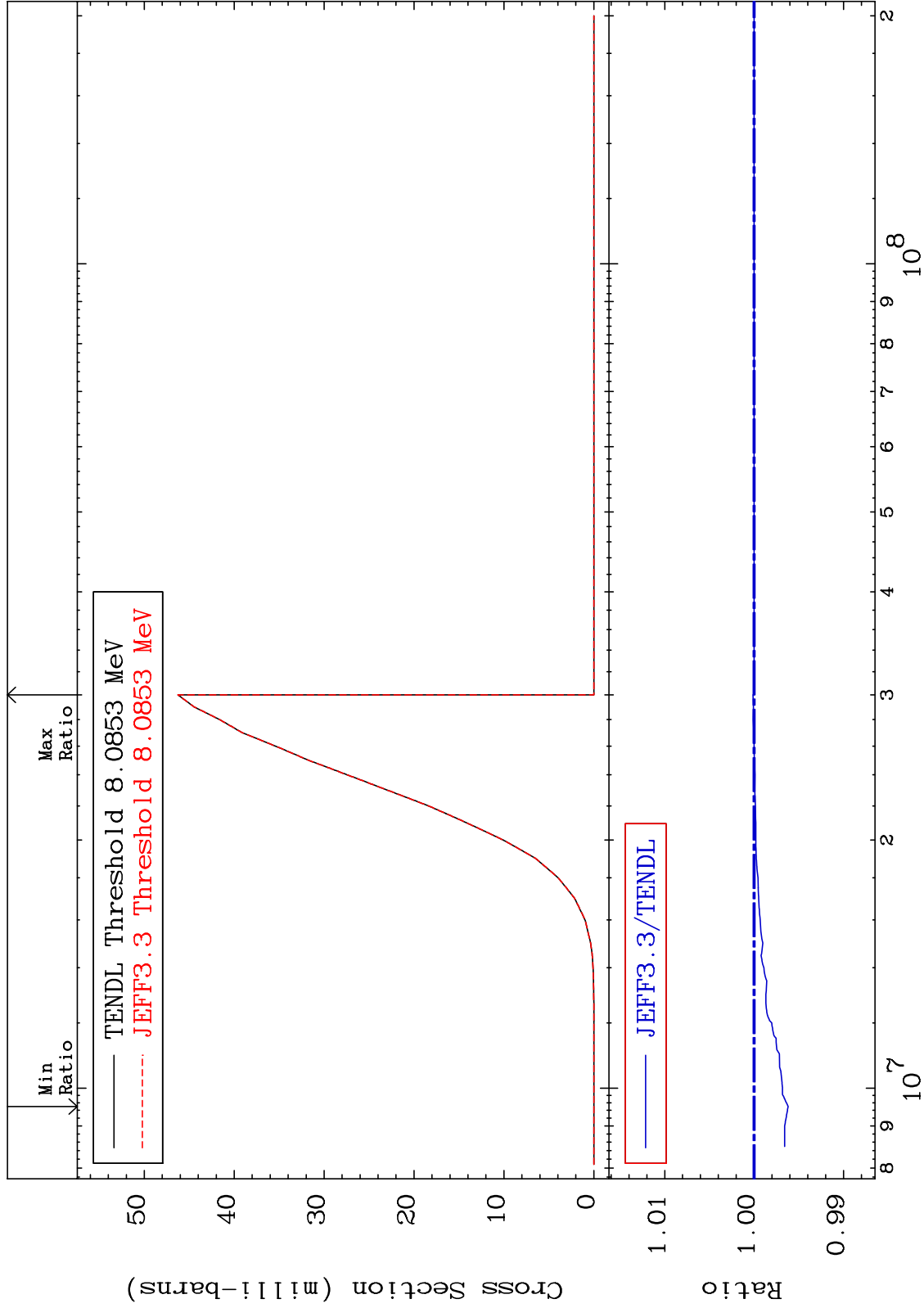


MAT 6034

(n,n') p:59-Pr-144m1

60-Nd-145

Radionuclide Production Cross Section -0.380 To 0.014 %

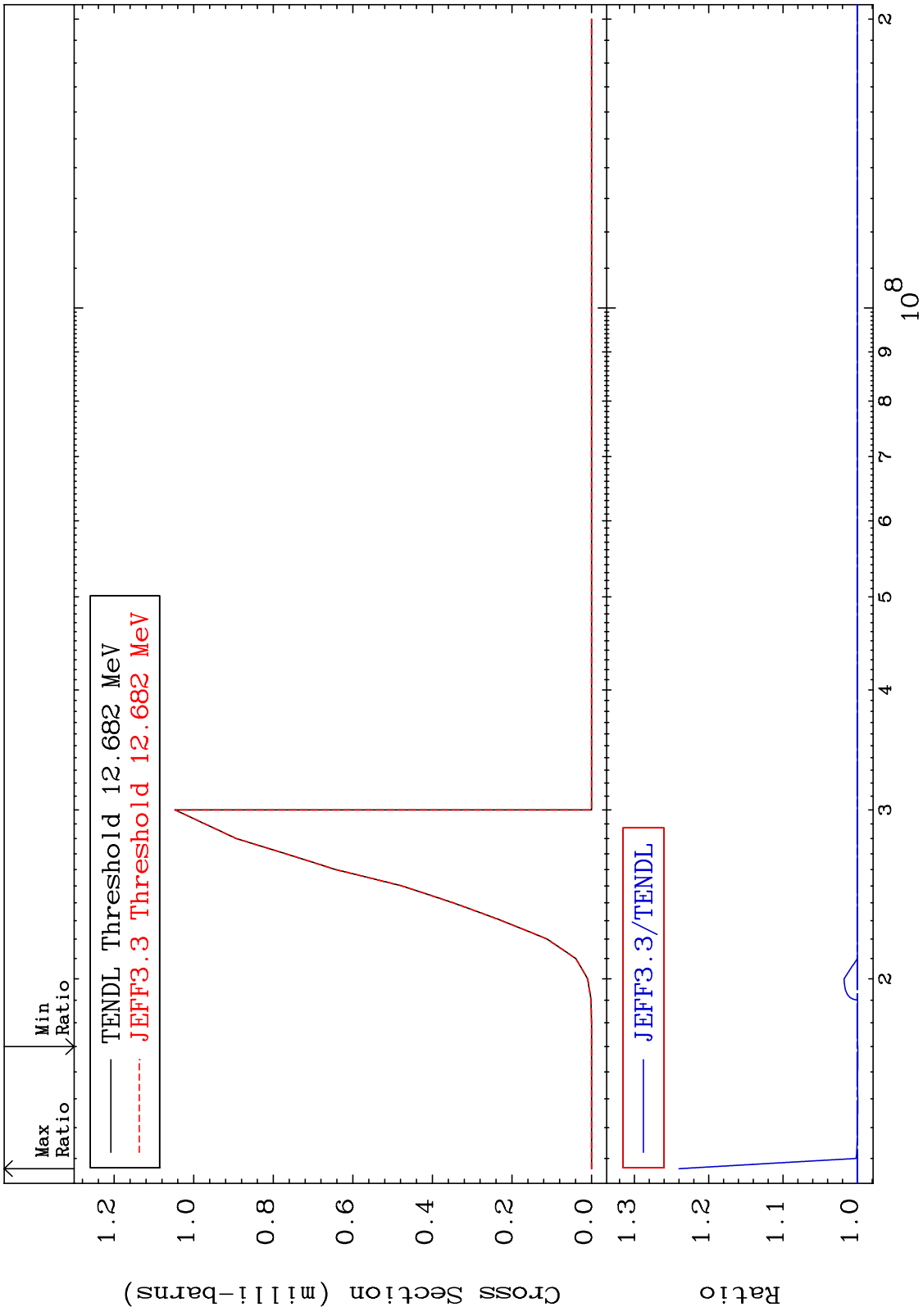


84

Incident Energy (eV)

60-Nd-145

MAT 6034 (n, n') t:59-Pr-142g 60-Nd-145  
 Radionuclide Production Cross Section -0.077 To 24.00 %

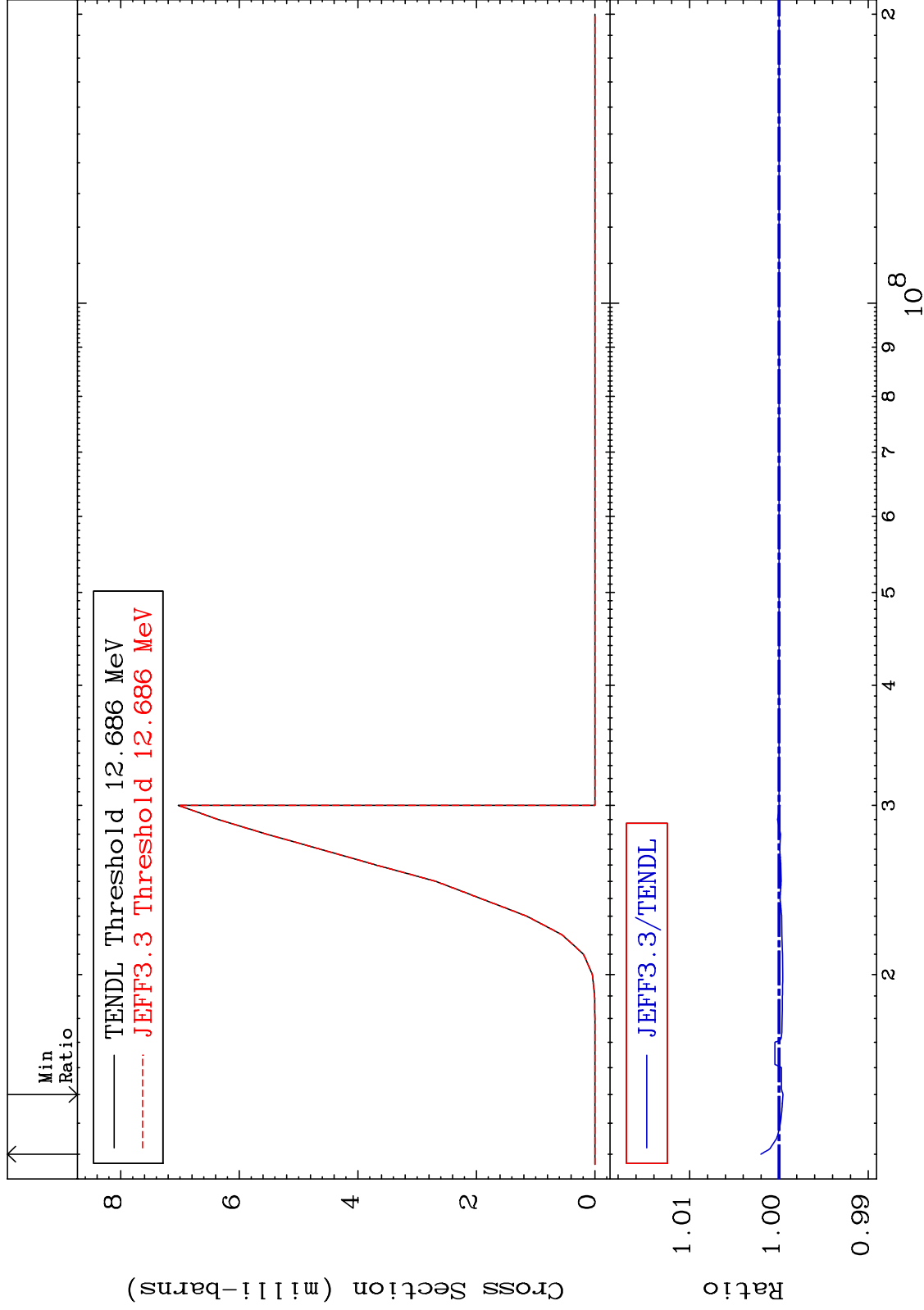


MAT 6034

(n,n') t:59-Pr-142m1

60-Nd-145

Radionuclide Production Cross Section -0.044 To 0.203 %



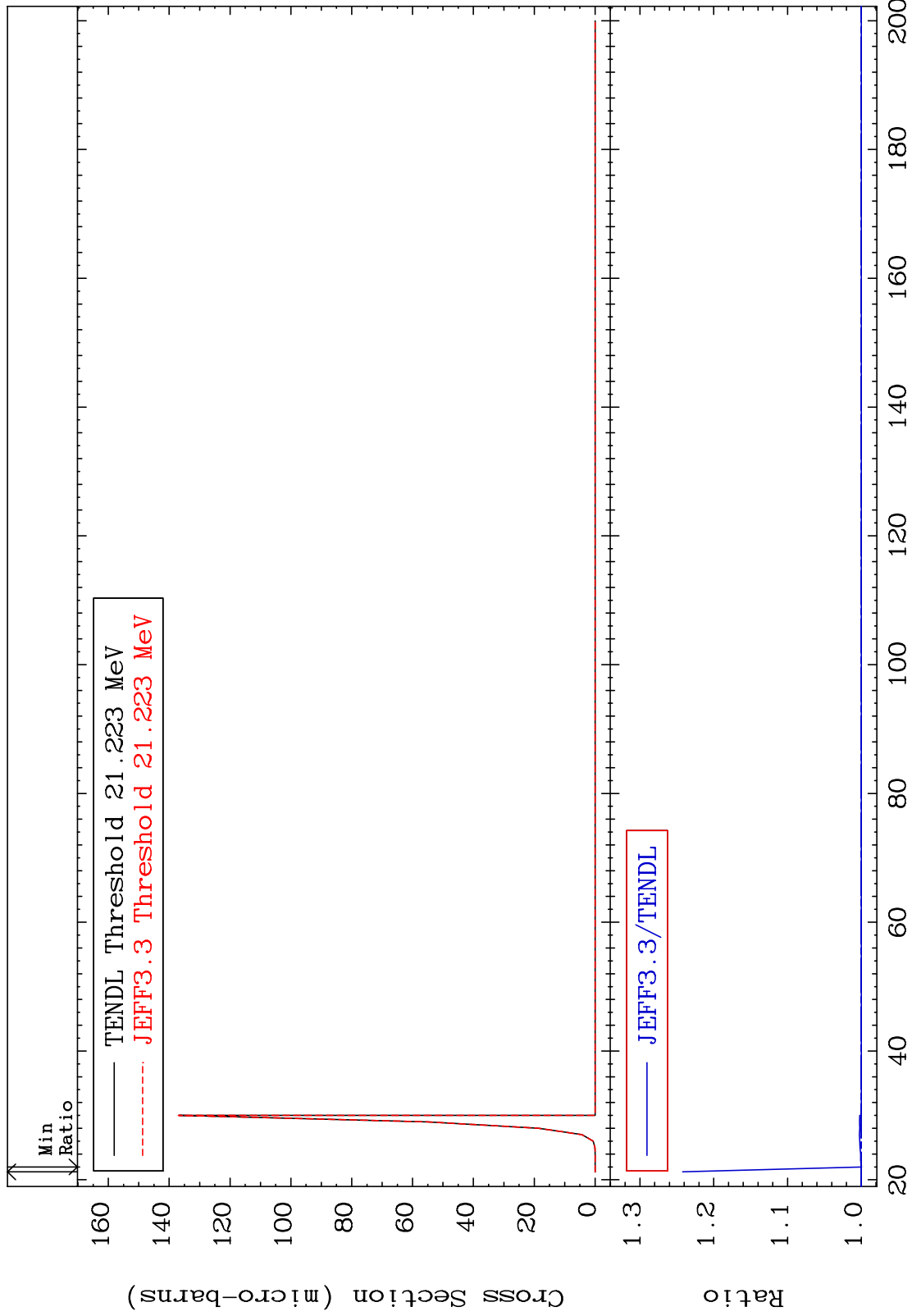
86

Incident Energy (eV)

60-Nd-145

MAT 6034

(n,3n) p:59-Pr-142g 60-Nd-145  
Radionuclide Production Cross Section -0.038 To 24.20 %



87

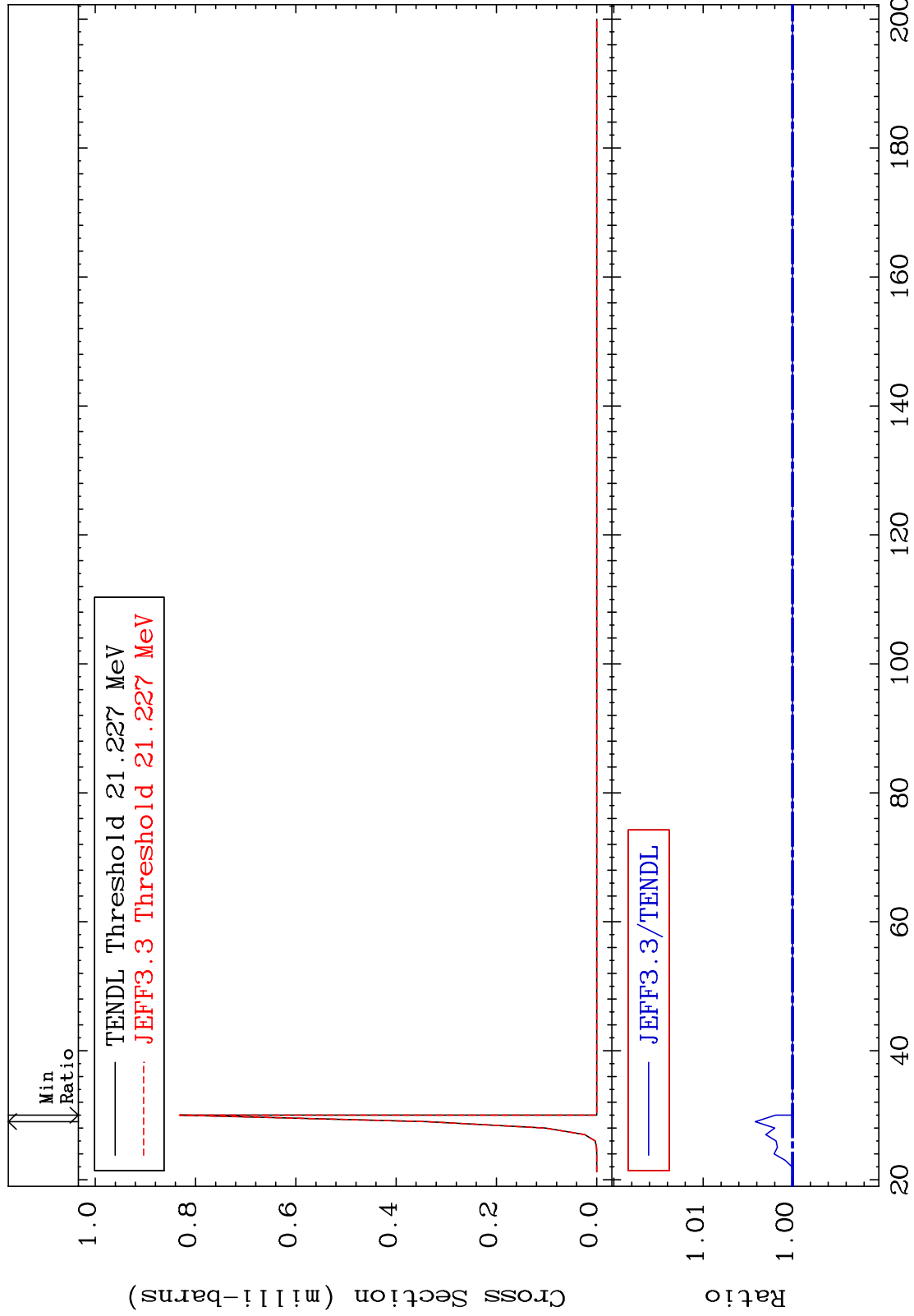
Incident Energy (MeV) 60-Nd-145

MAT 6034

(n,3n) p:59-Pr-142m1

60-Nd-145

Radionuclide Production Cross Section 0.000 To 0.416 %

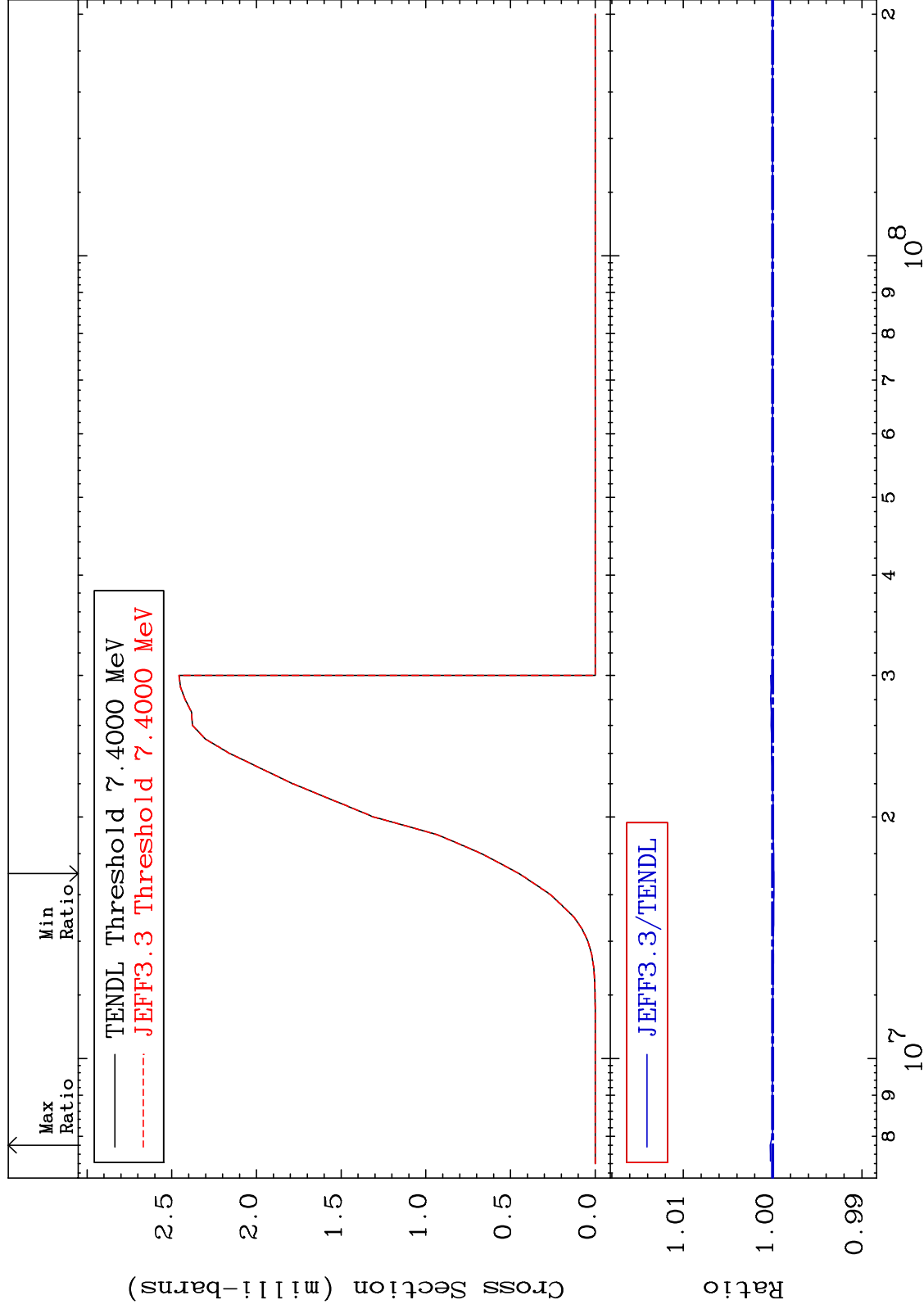


MAT 6034

(n,d):59-Pr-144g

60-Nd-145

Radionuclide Production Cross Section -0.014 To 0.027 %



89

Incident Energy (eV)

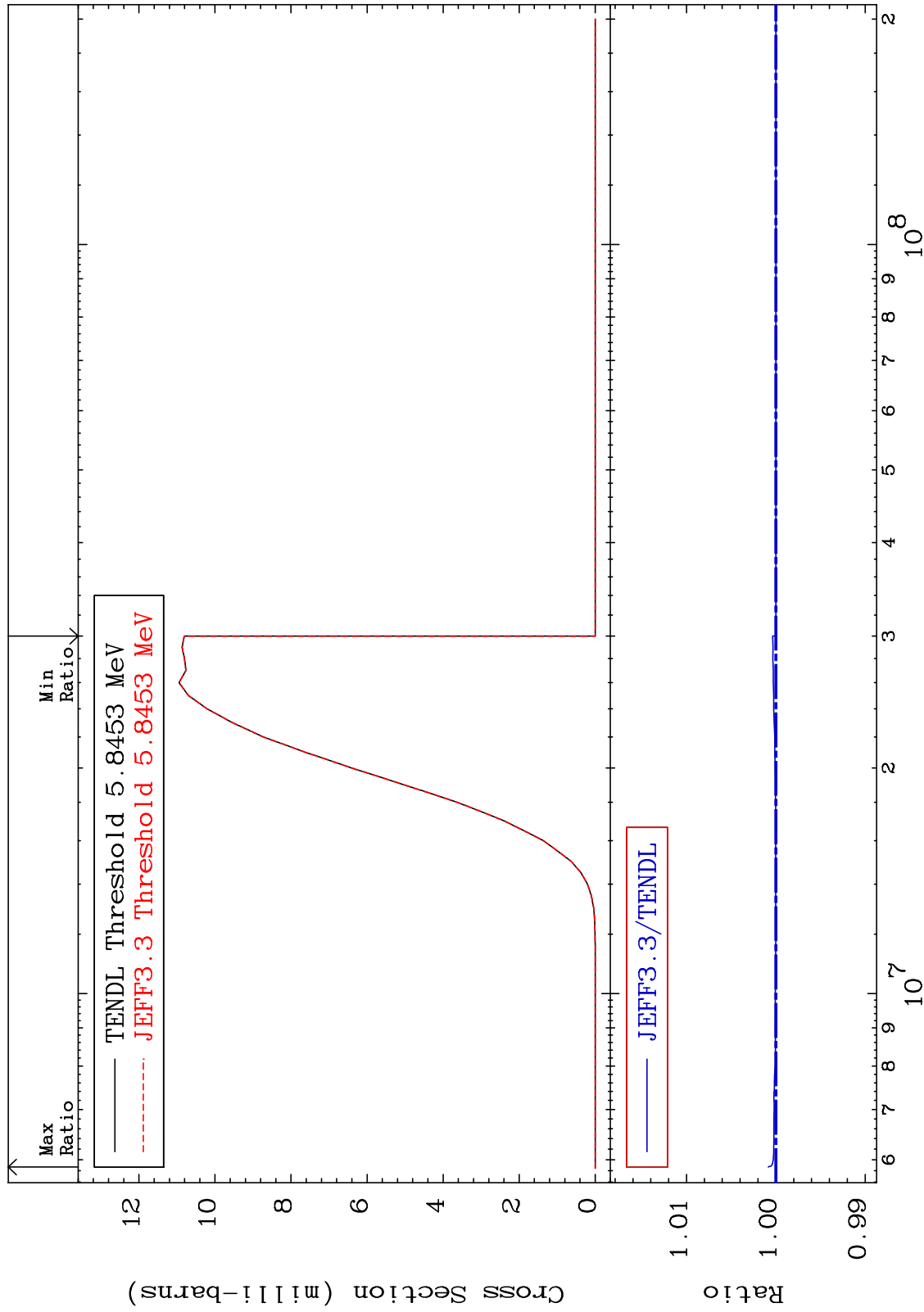
60-Nd-145

MAT 6034

(n, d) : 59-Pr-144m1

60-Nd-145

Radionuclide Production Cross Section 0.000 To 0.086 %



90

Incident Energy (eV)

60-Nd-145