

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

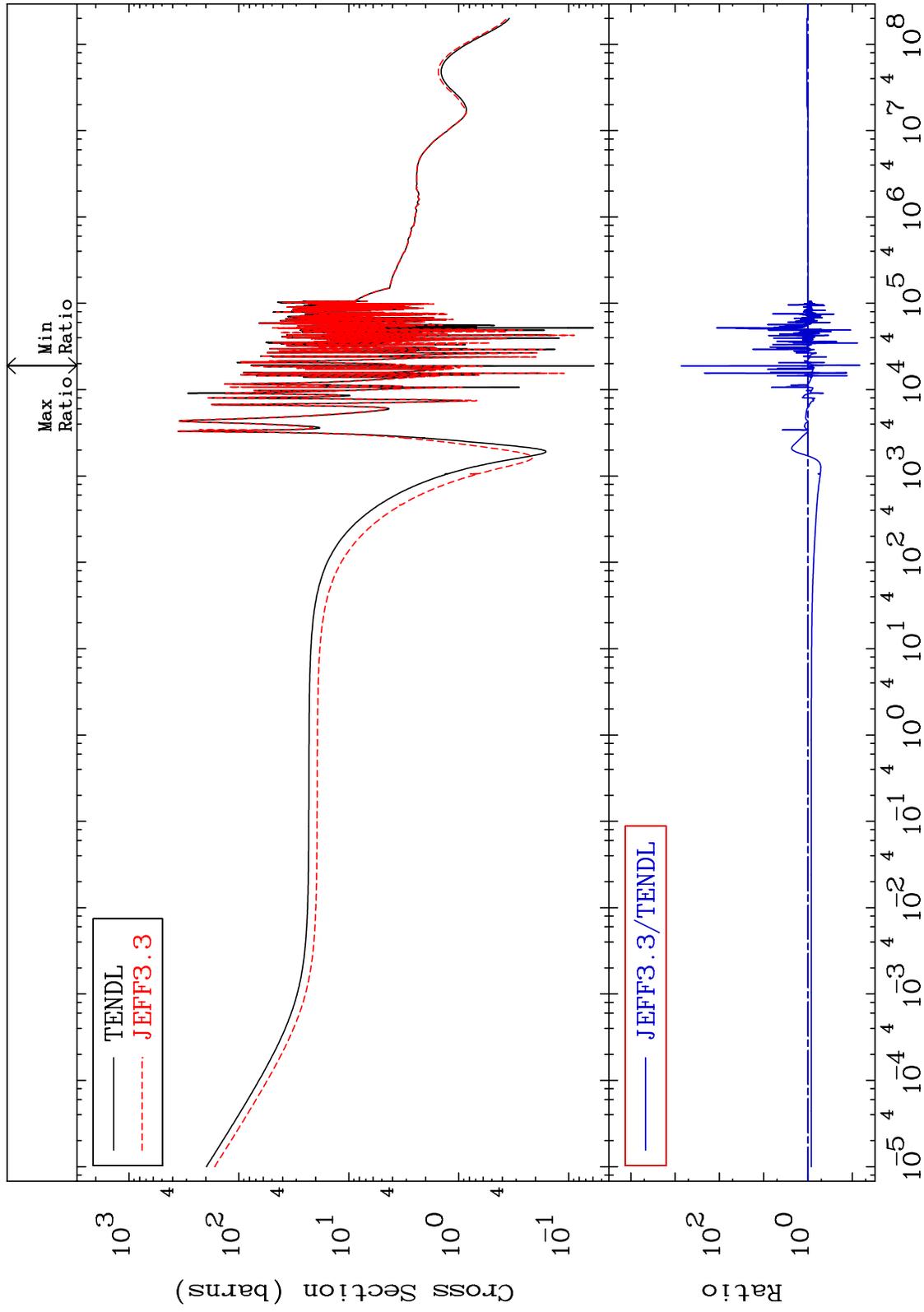
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 2125

Elastic
Cross Section

21-Sc-45
-93.25 To 9999. %

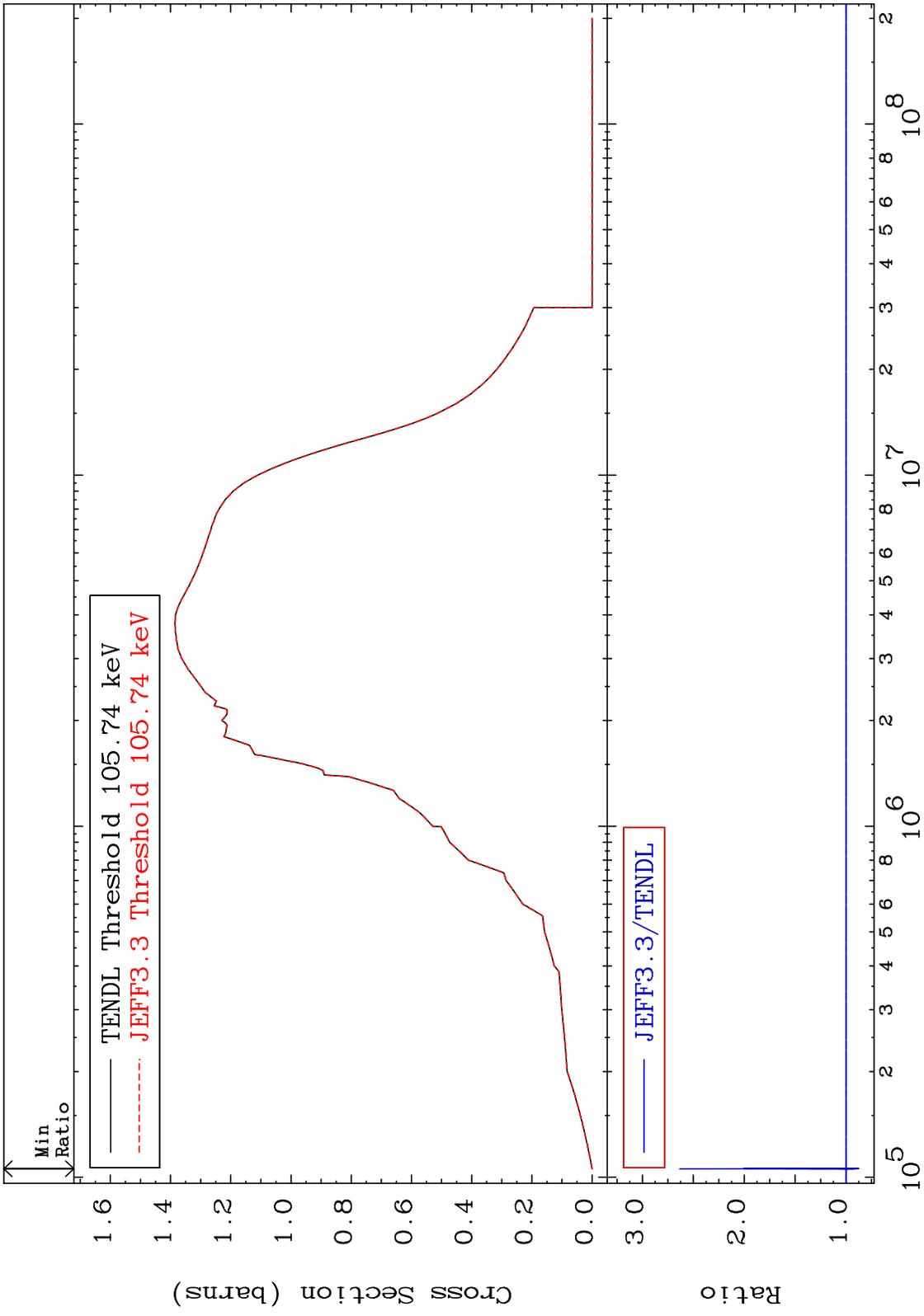


2

Incident Energy (eV)

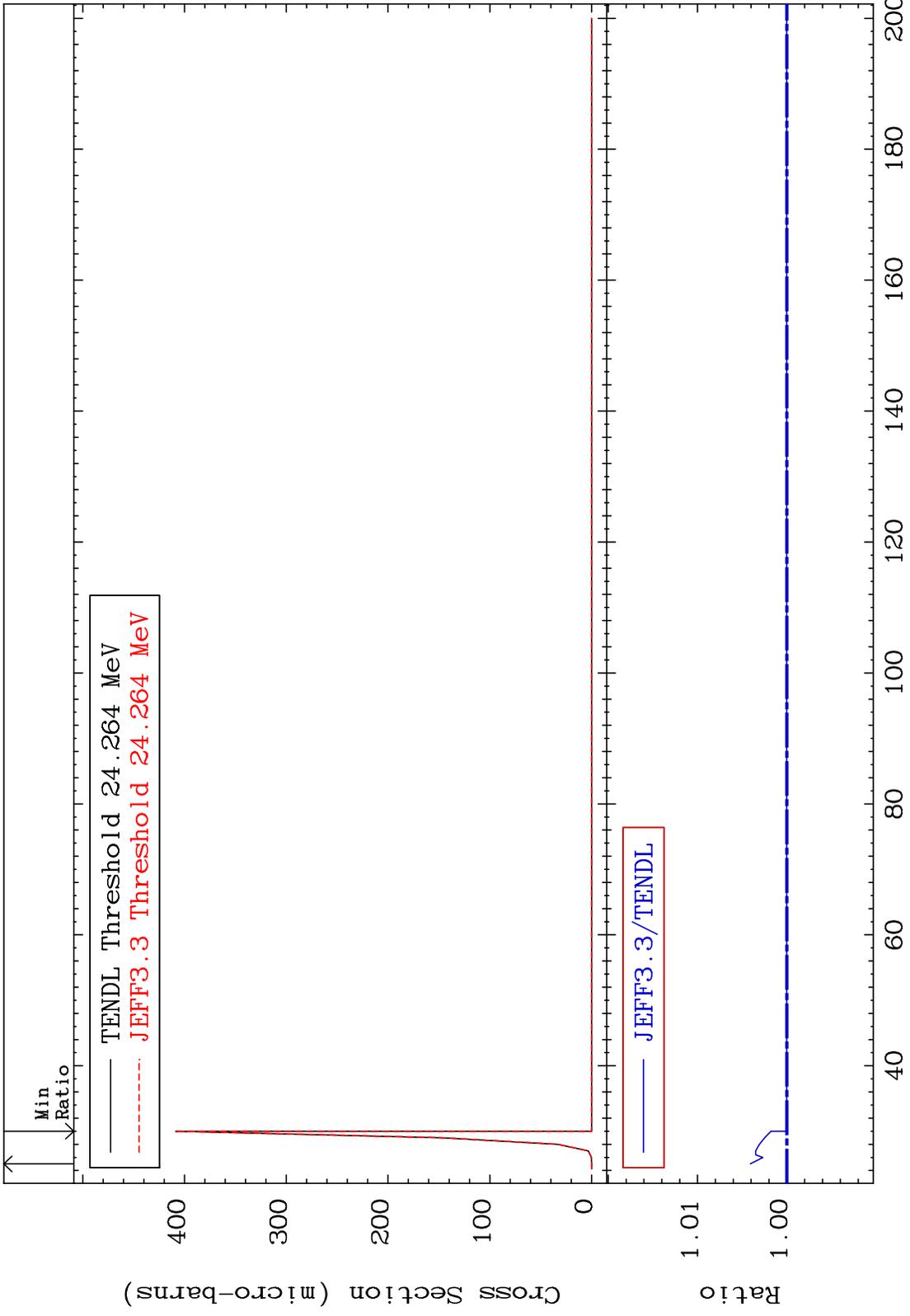
21-Sc-45

MAT 2125 Inelastic Cross Section 21-Sc-45 -12.51 To 163.3 %

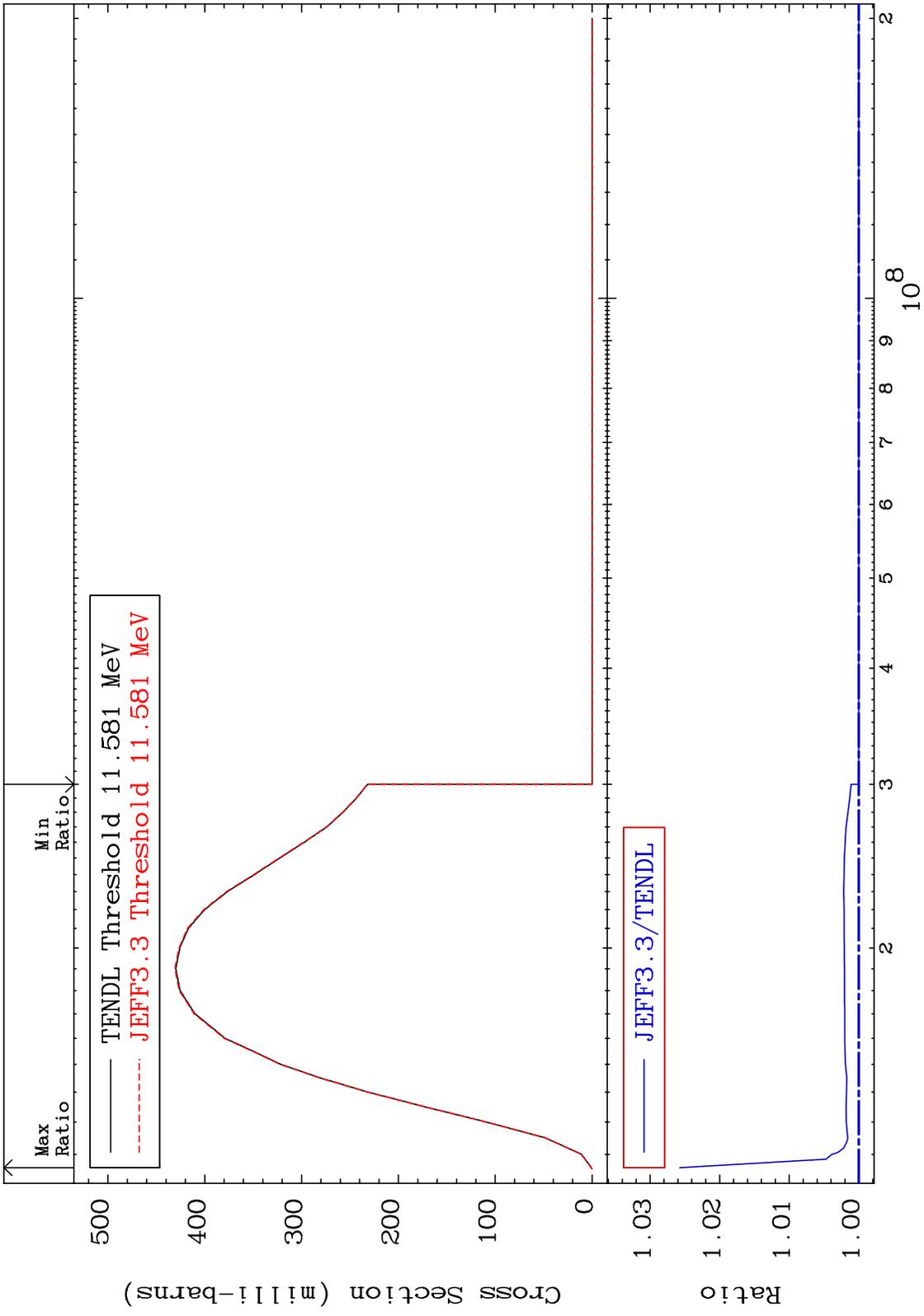


21-Sc-45

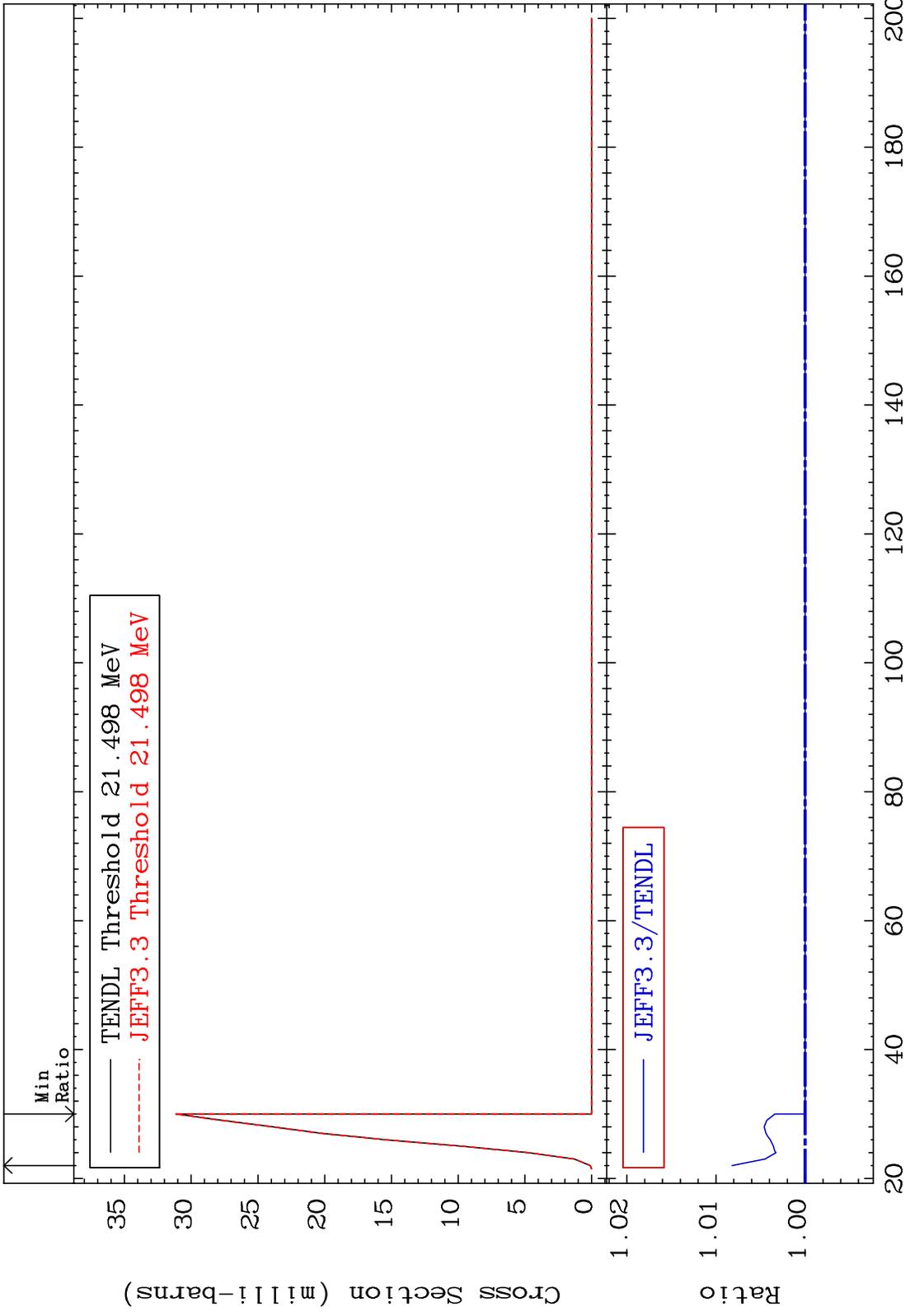
MAT 2125 (n,2n) d 21-Sc-45
 Cross Section 0.000 To 0.408 %



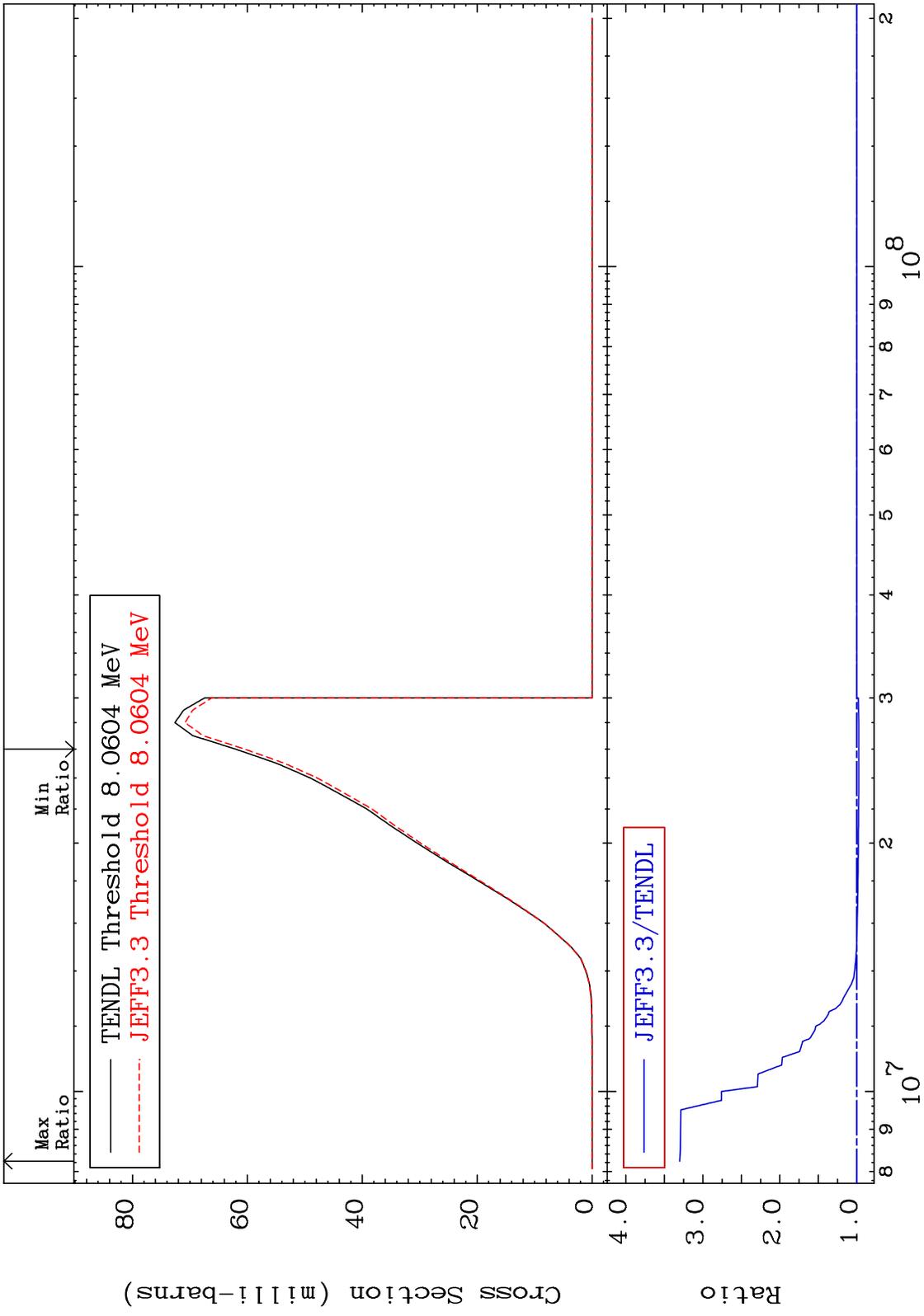
MAT 2125 $(n,2n)$ Cross Section 21-Sc-45 To 2.573 %



MAT 2125 (n,3n) Cross Section 21-Sc-45 0.000 To 0.819 %



MAT 2125 $(n, n') \alpha$ 21-Sc-45
Cross Section -2.574 To 230.0 %



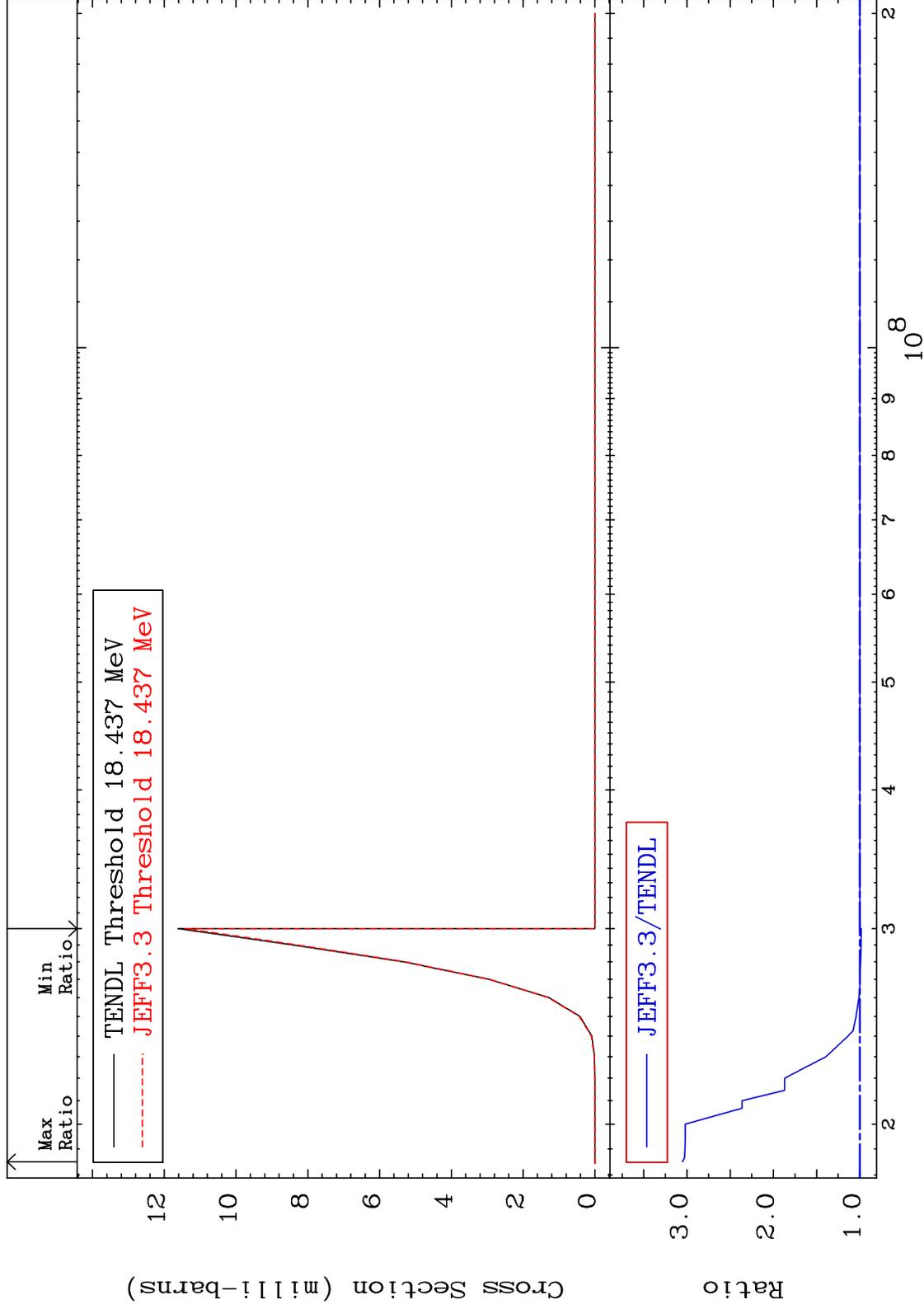
MAT 2125

(n,2n) α

21-Sc-45

Cross Section

-1.773 To 205.2 %

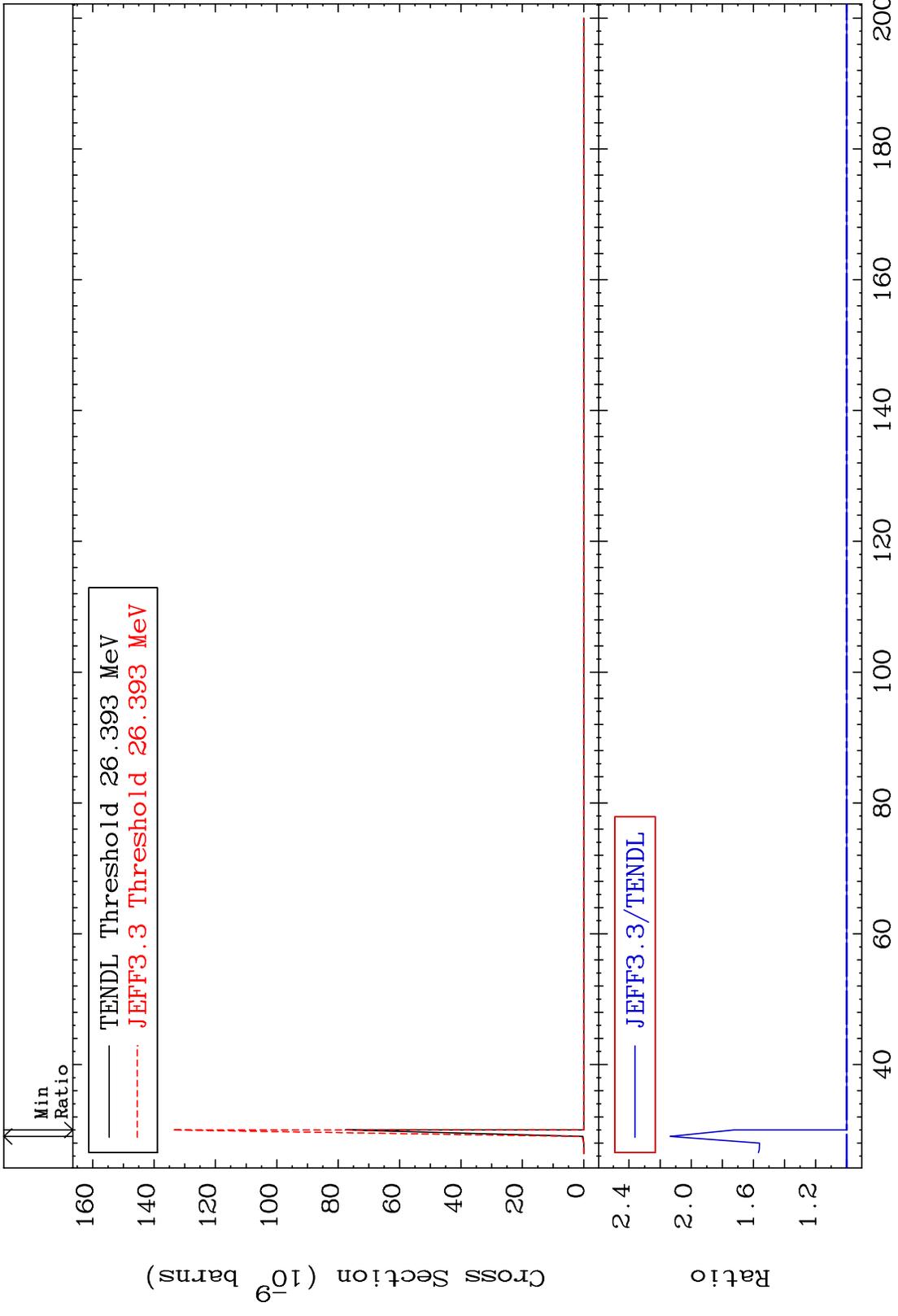


8

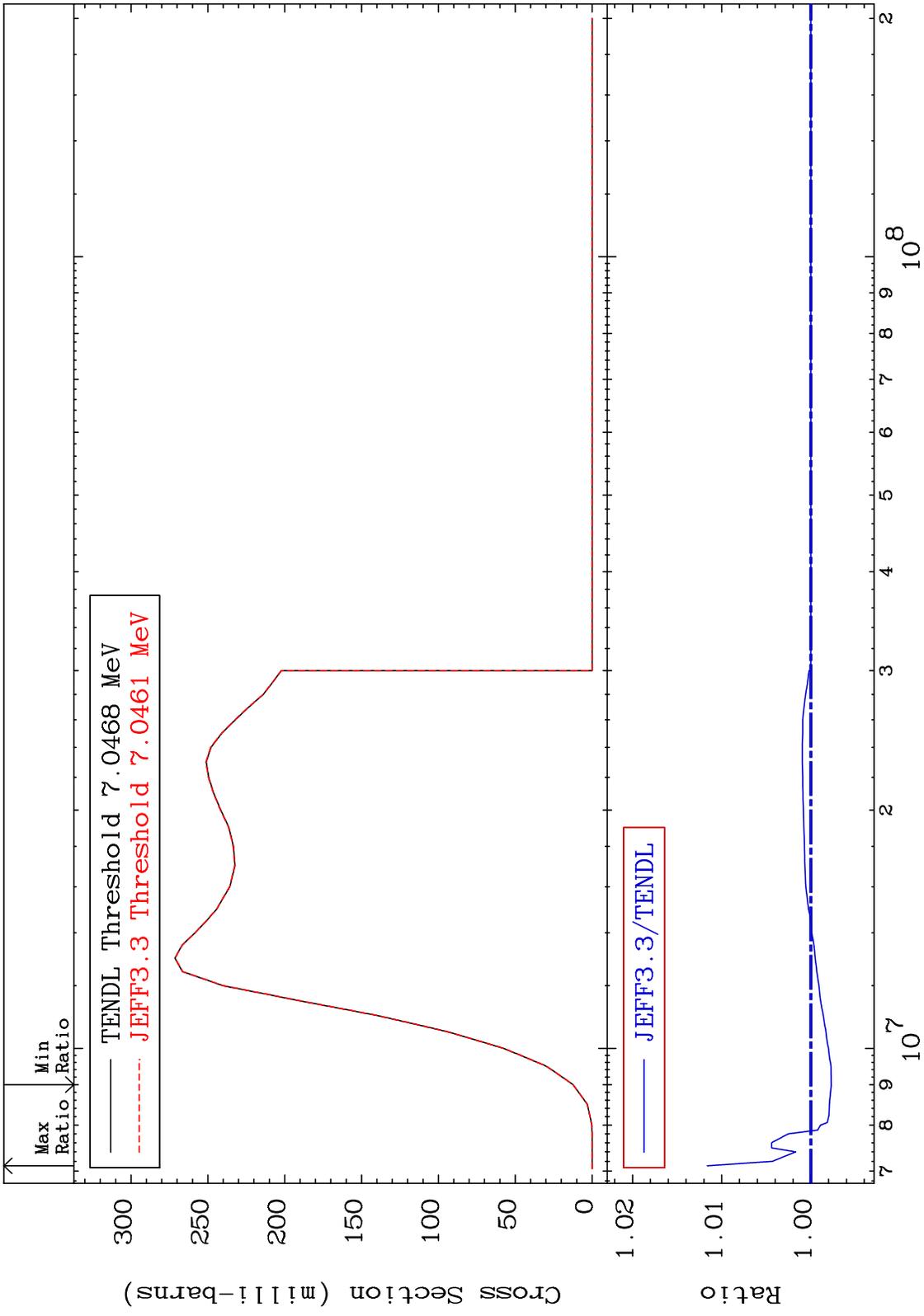
Incident Energy (eV)

21-Sc-45

MAT 2125 $(n, 3n) \alpha$ 21-Sc-45
 Cross Section 0.000 To 113.5 %

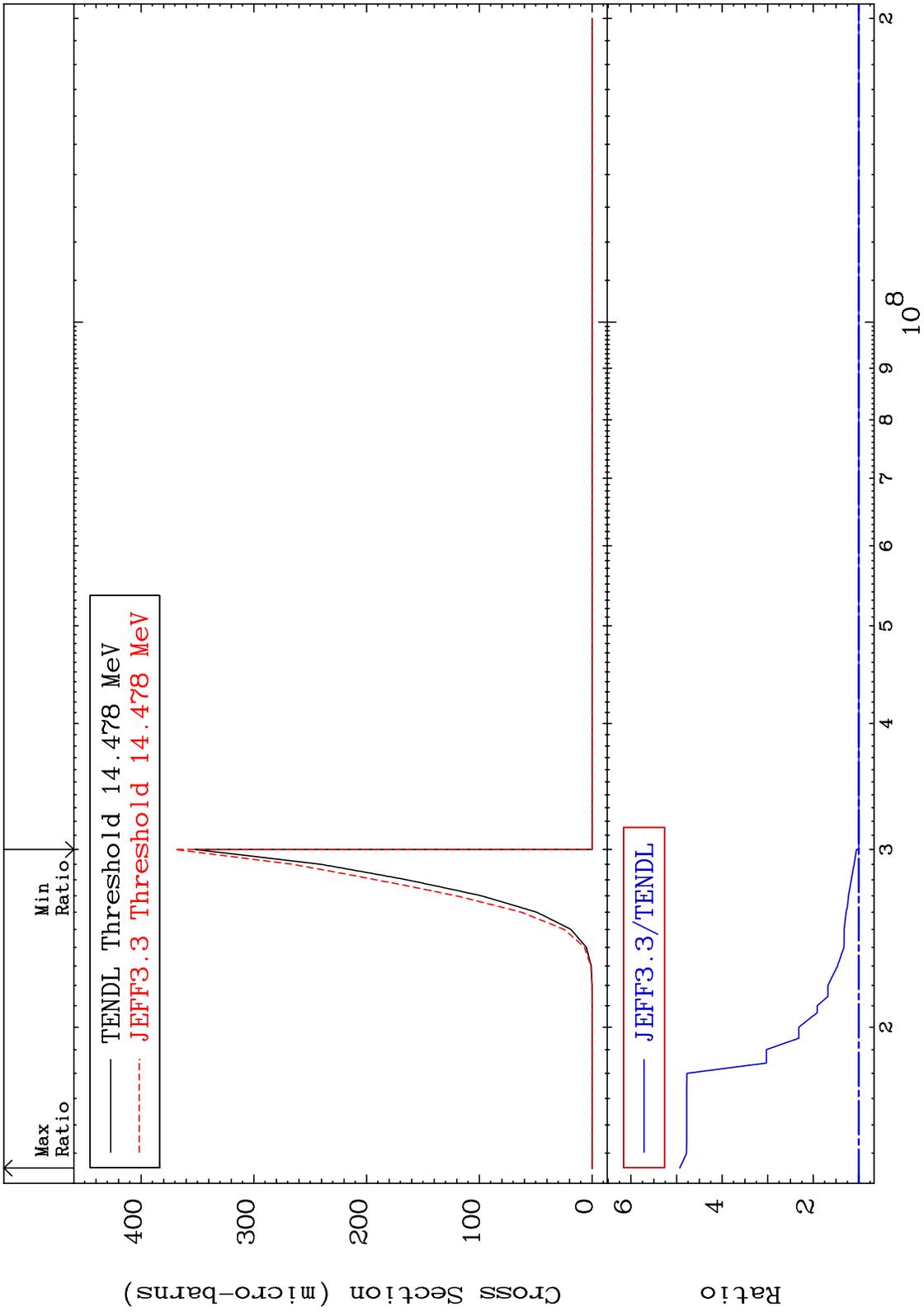


MAT 2125 (n,n') p 21-Sc-45
Cross Section -0.230 To 1.162 %

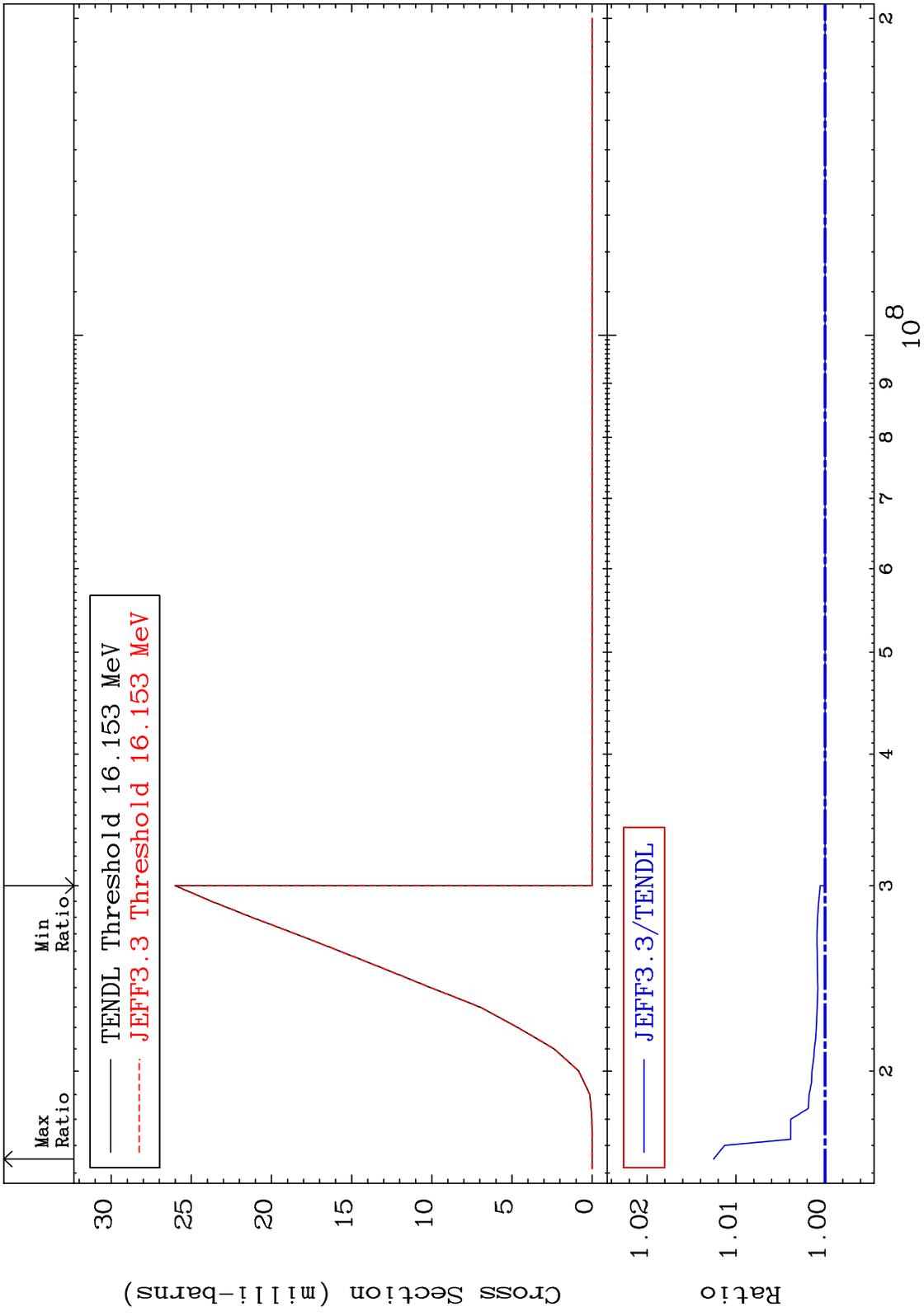


10 21-Sc-45

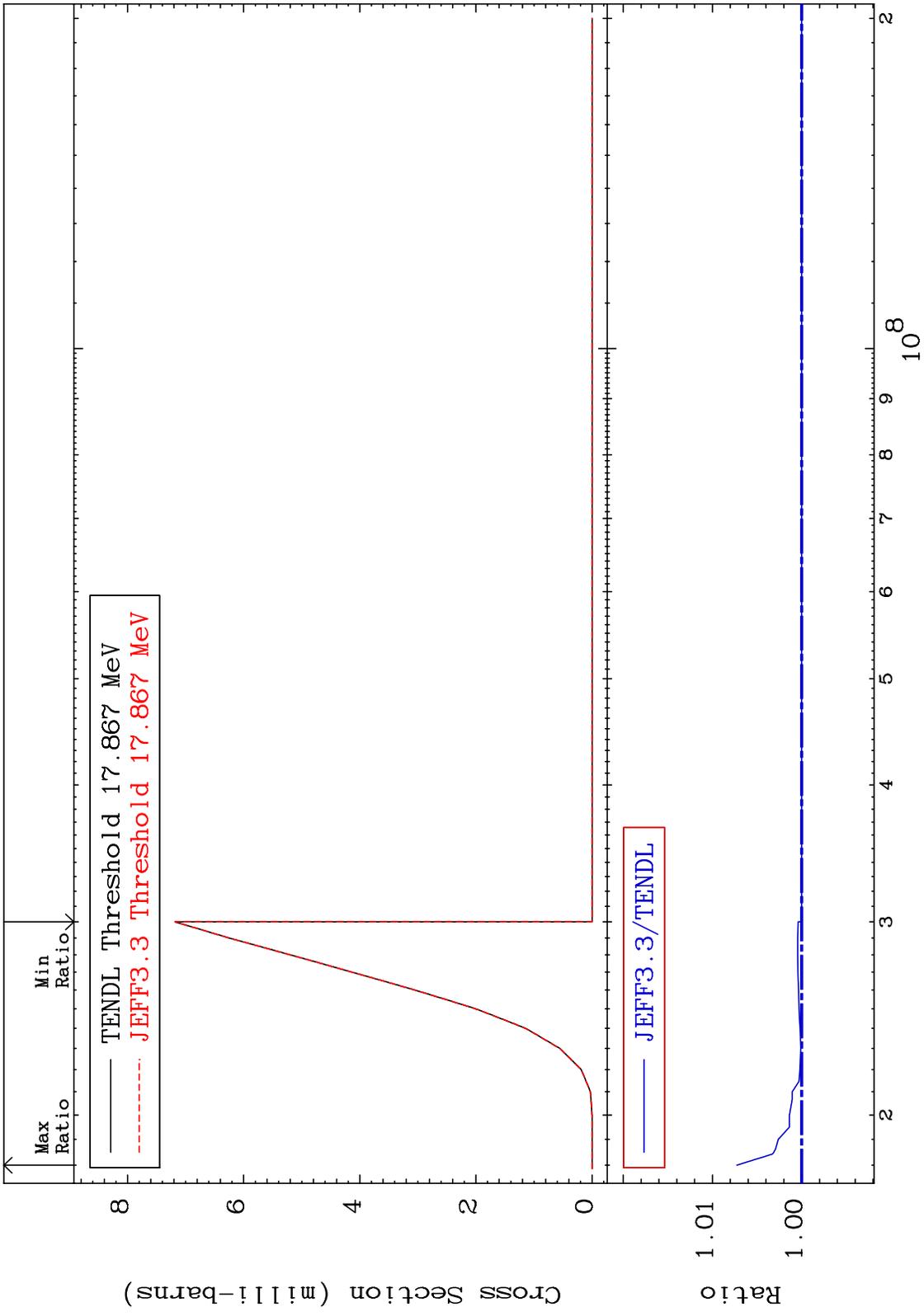
MAT 2125 (n,n') 2α Cross Section 21-Sc-45 0.000 To 392.9 %



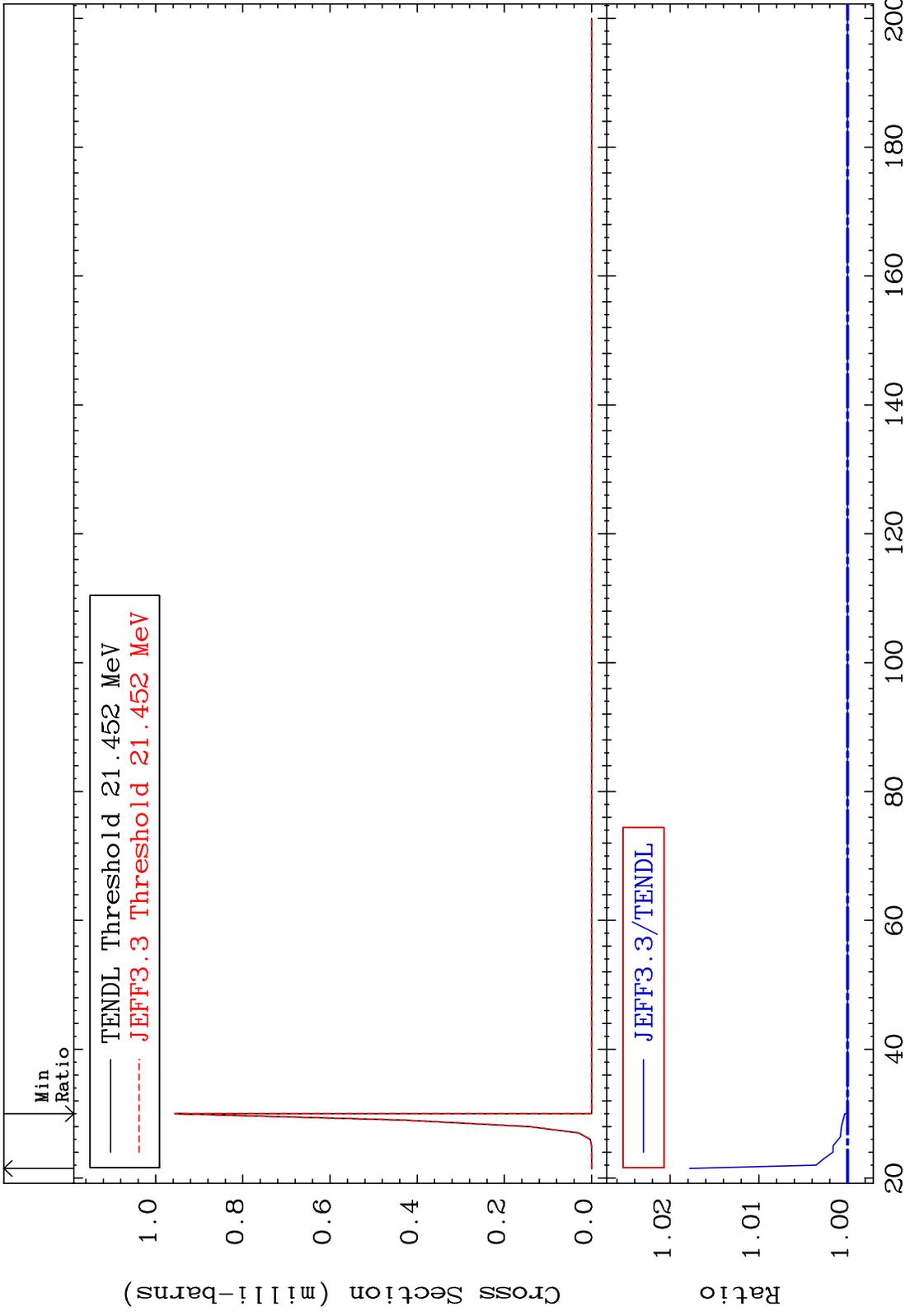
MAT 2125 (n,n') d 21-Sc-45
 Cross Section 0.000 To 1.252 %



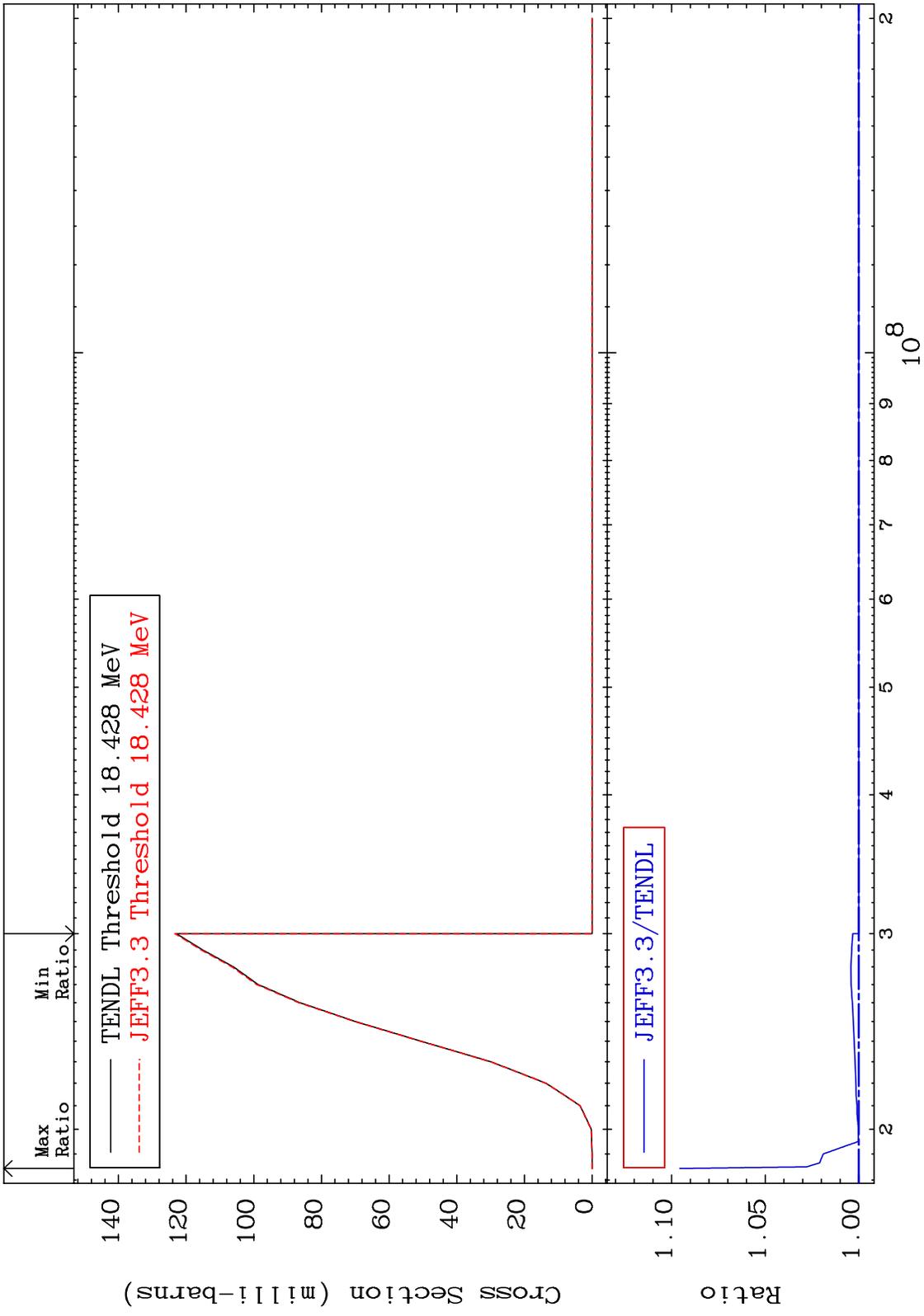
MAT 2125 (n, n') t 21-Sc-45
 Cross Section 0.000 To 0.726 %



MAT 2125 (n, n') He-3 Cross Section 21-Sc-45 To 1.781 %
 0.000



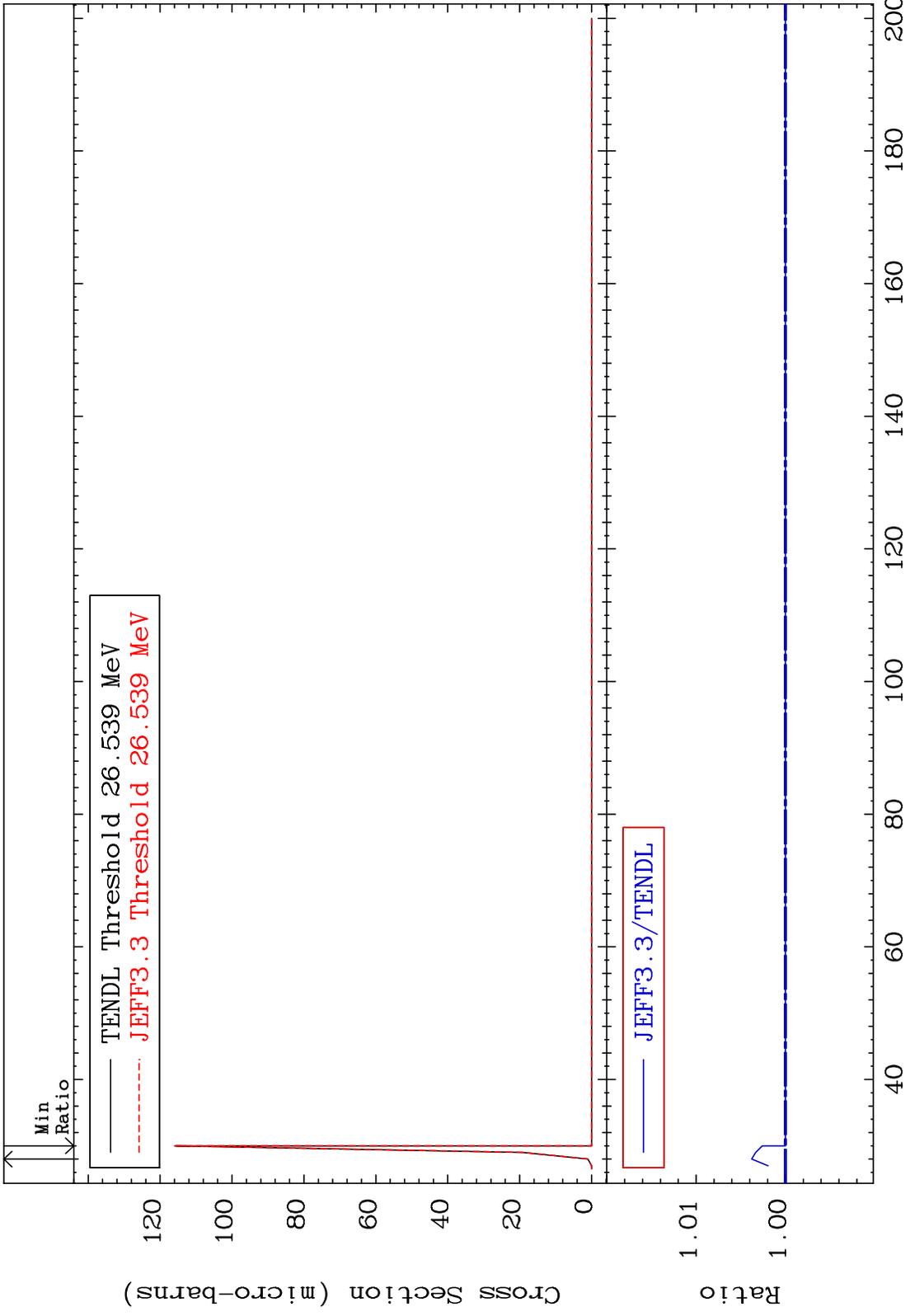
MAT 2125 (n,2n) p 21-Sc-45
Cross Section 0.000 To 9.568 %



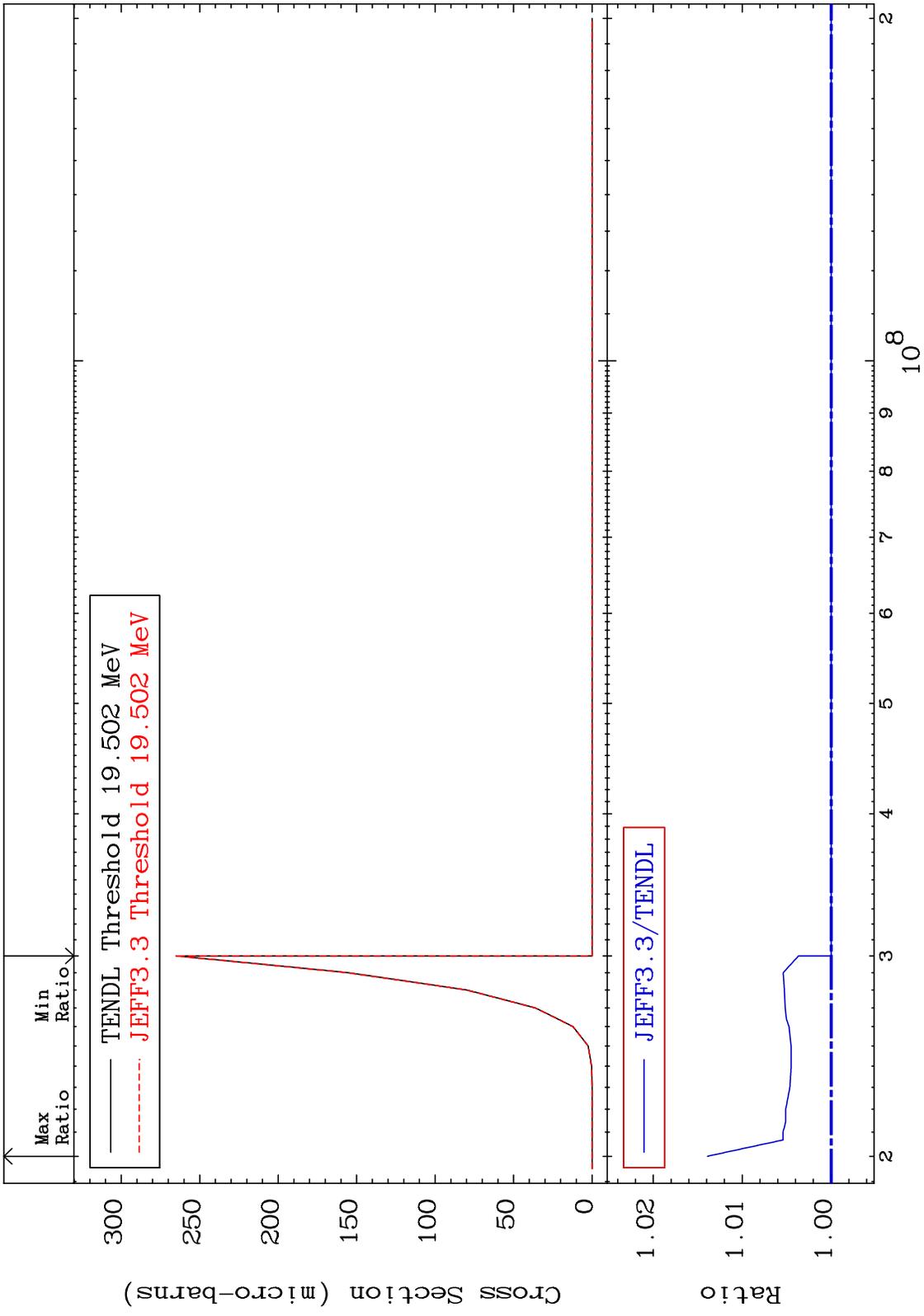
21-Sc-45

Incident Energy (eV)

MAT 2125 (n,3n) p 21-Sc-45
Cross Section 0.000 To 0.377 %



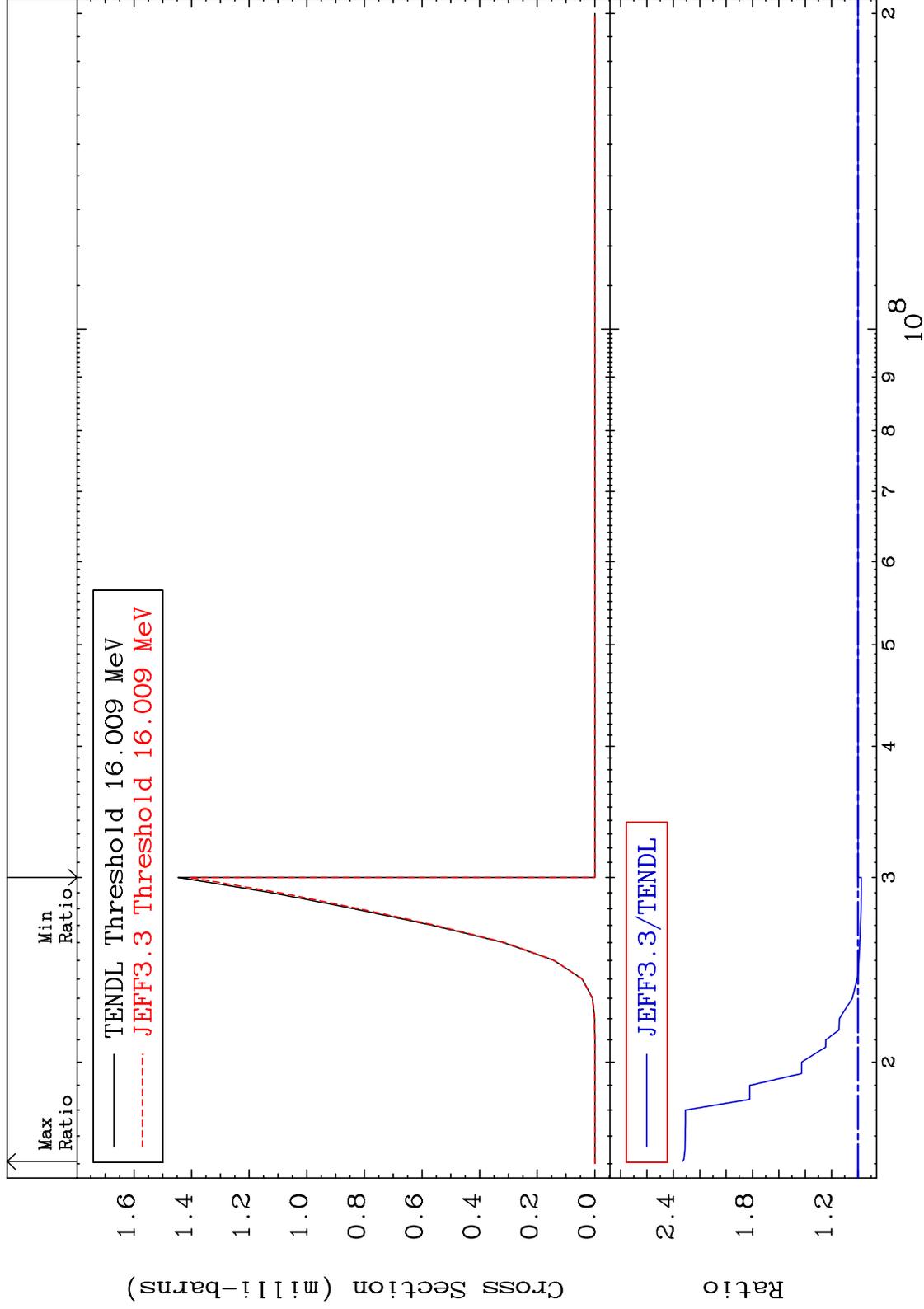
MAT 2125 (n,2n) p 21-Sc-45
 Cross Section 0.000 To 1.391 %



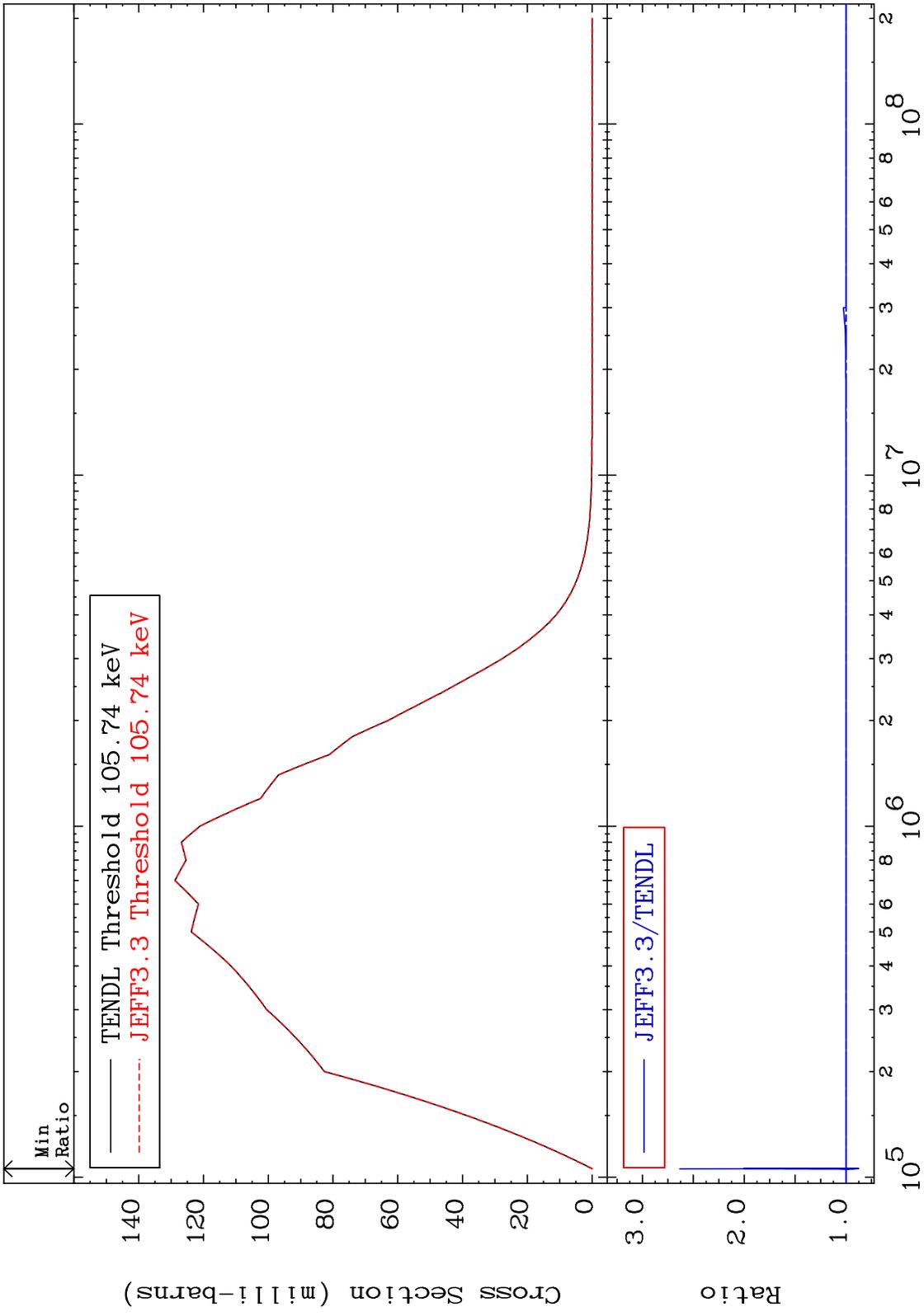
MAT 2125

(n,n') p α
Cross Section

21-Sc-45
-2.592 To 133.1 %

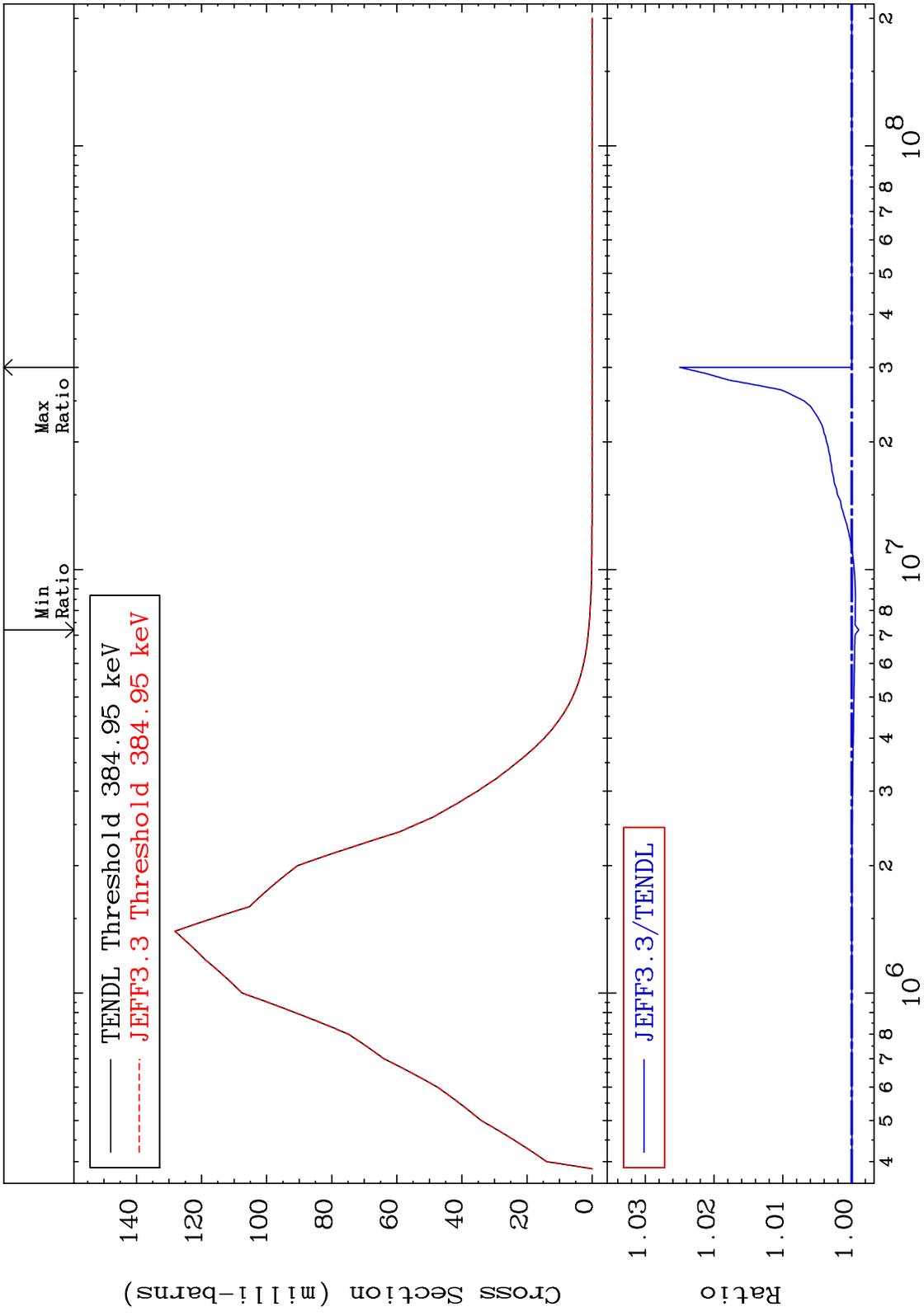


MAT 2125 MT= 51 (n,n') Level Cross Section -12.51 To 163.3 % 21-Sc-45

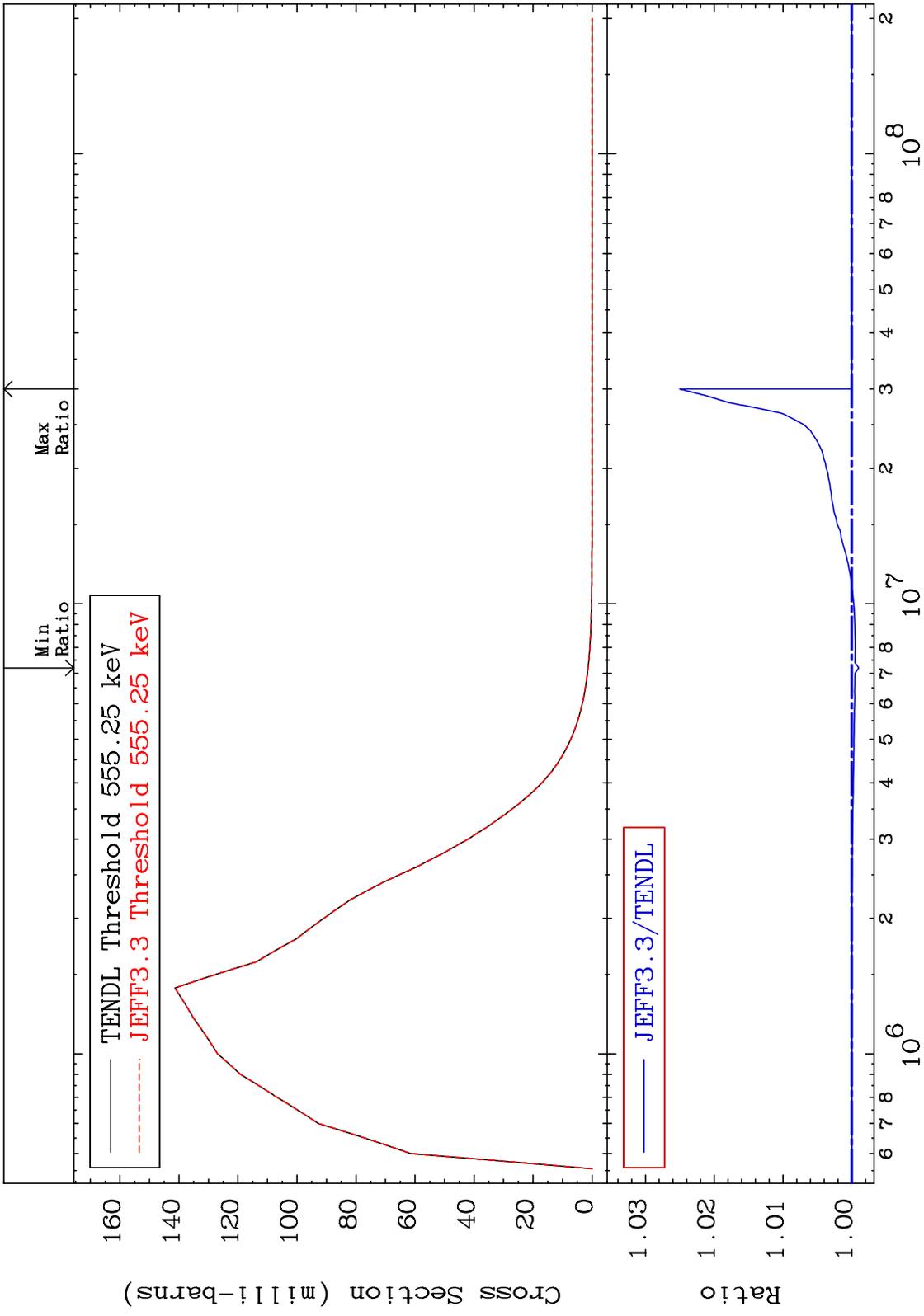


19 Incident Energy (eV) 21-Sc-45

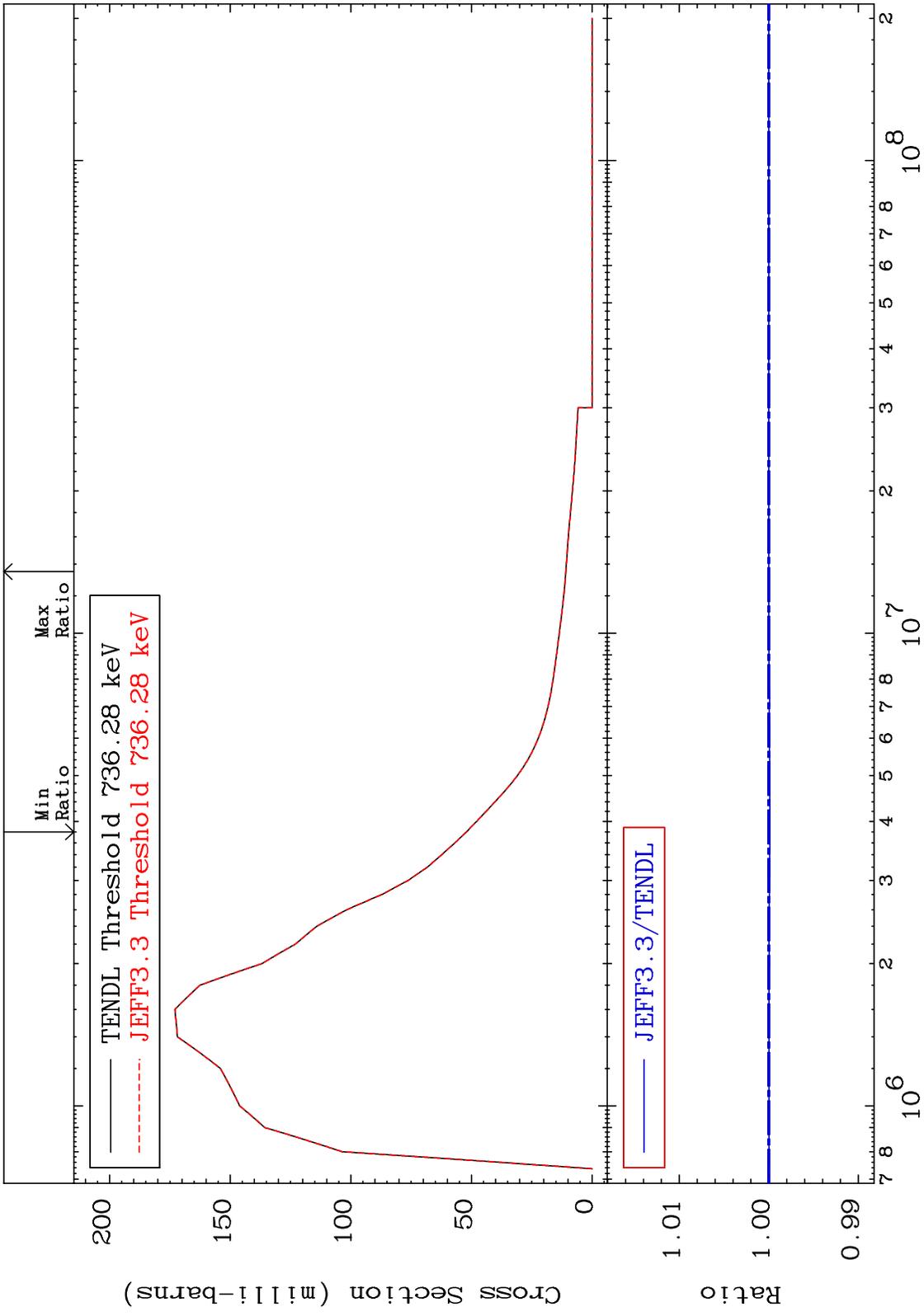
MAT 2125 MT= 52 (n,n') Level Cross Section -0.104 To 2.499 % 21-Sc-45



MAT 2125 MT= 53 (n,n') Level Cross Section -0.103 To 2.501 % 21-Sc-45

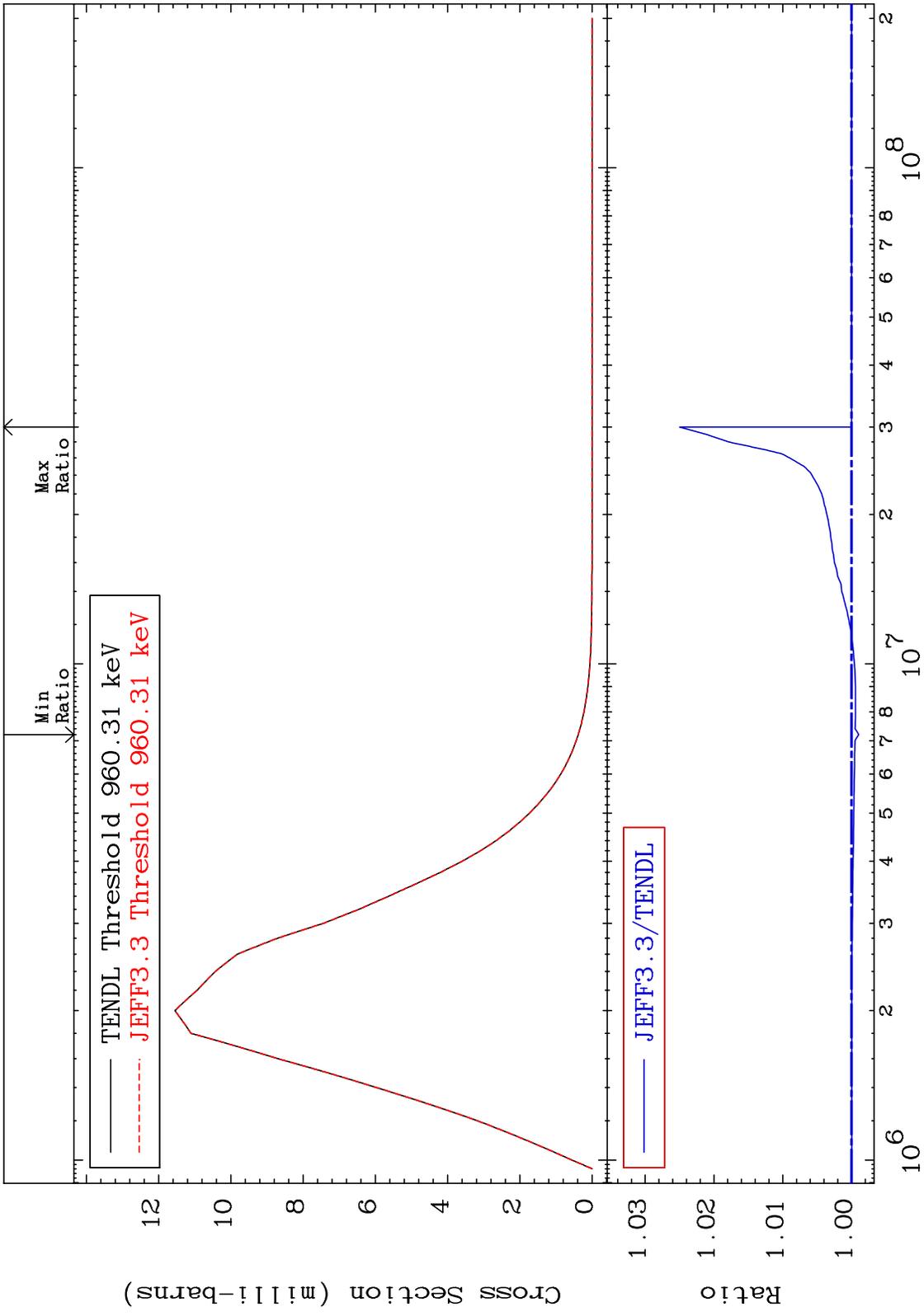


MAT 2125 MT= 54 (n,n') Level Cross Section -0.011 To 0.000 % 21-Sc-45



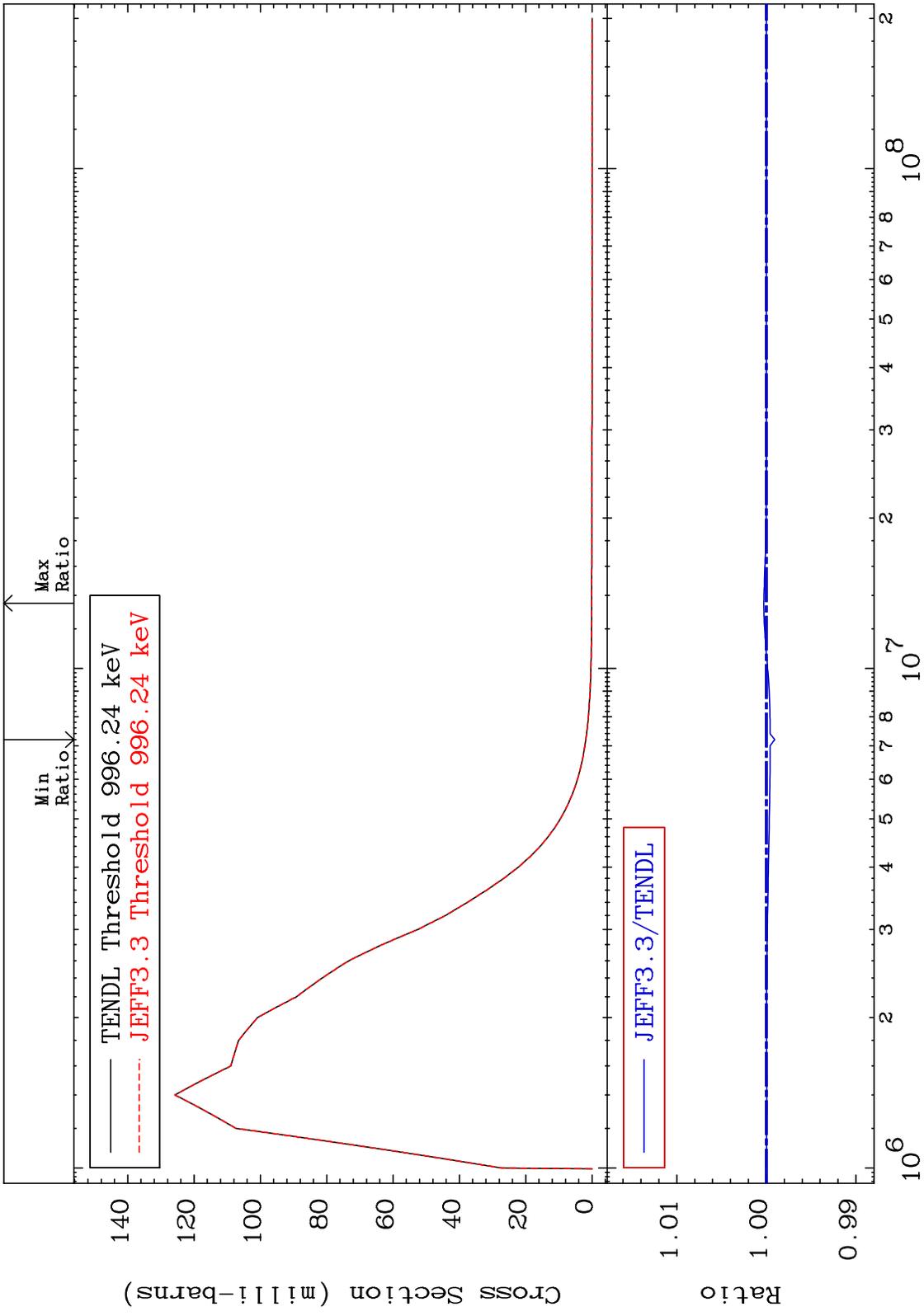
22 Incident Energy (eV) 21-Sc-45

MAT 2125 MT= 55 (n,n') Level Cross Section -0.106 To 2.498 % 21-Sc-45



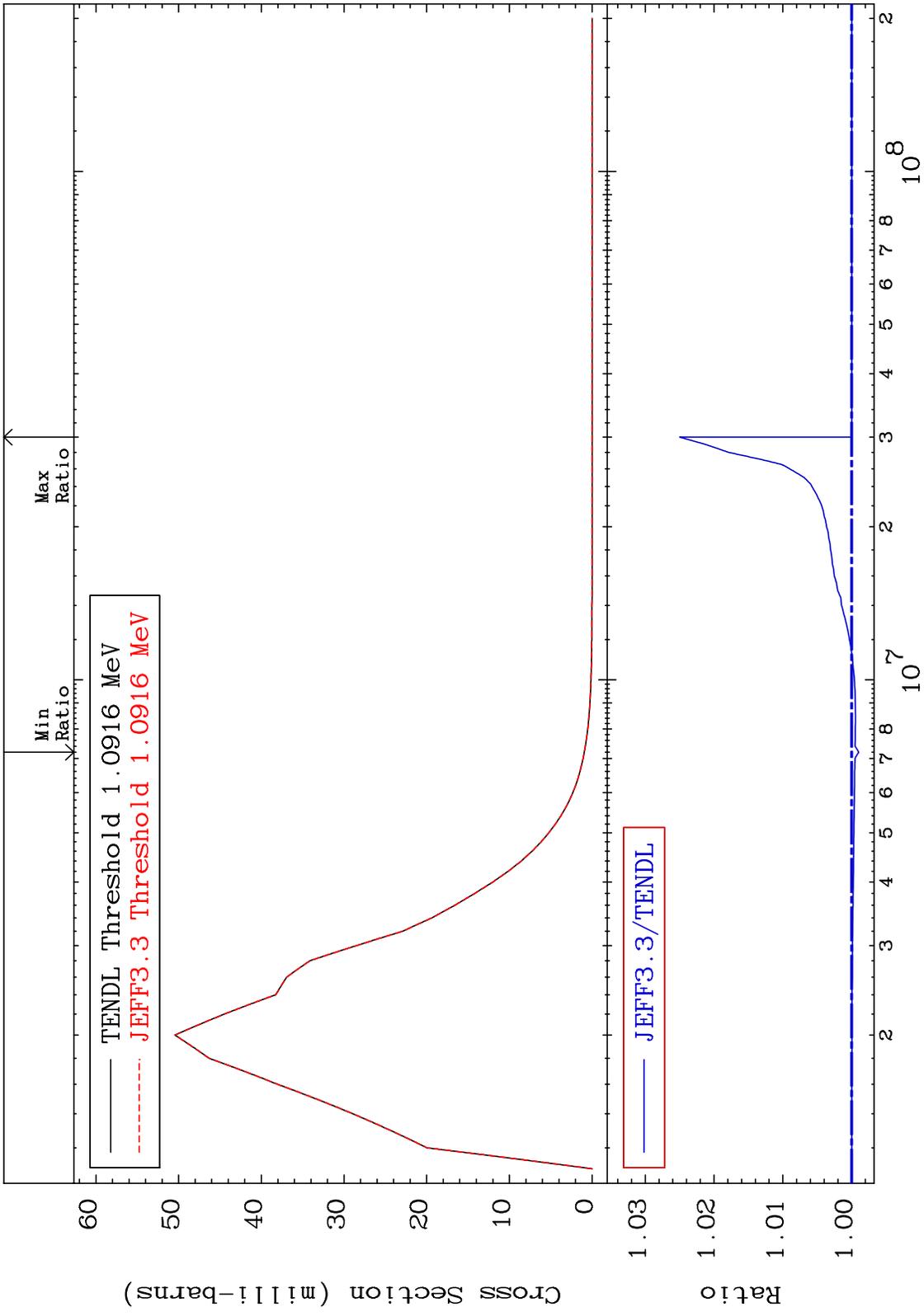
23 Incident Energy (eV) 21-Sc-45

MAT 2125 MT= 56 (n,n') Level Cross Section 21-Sc-45
 -0.093 To 0.028 %

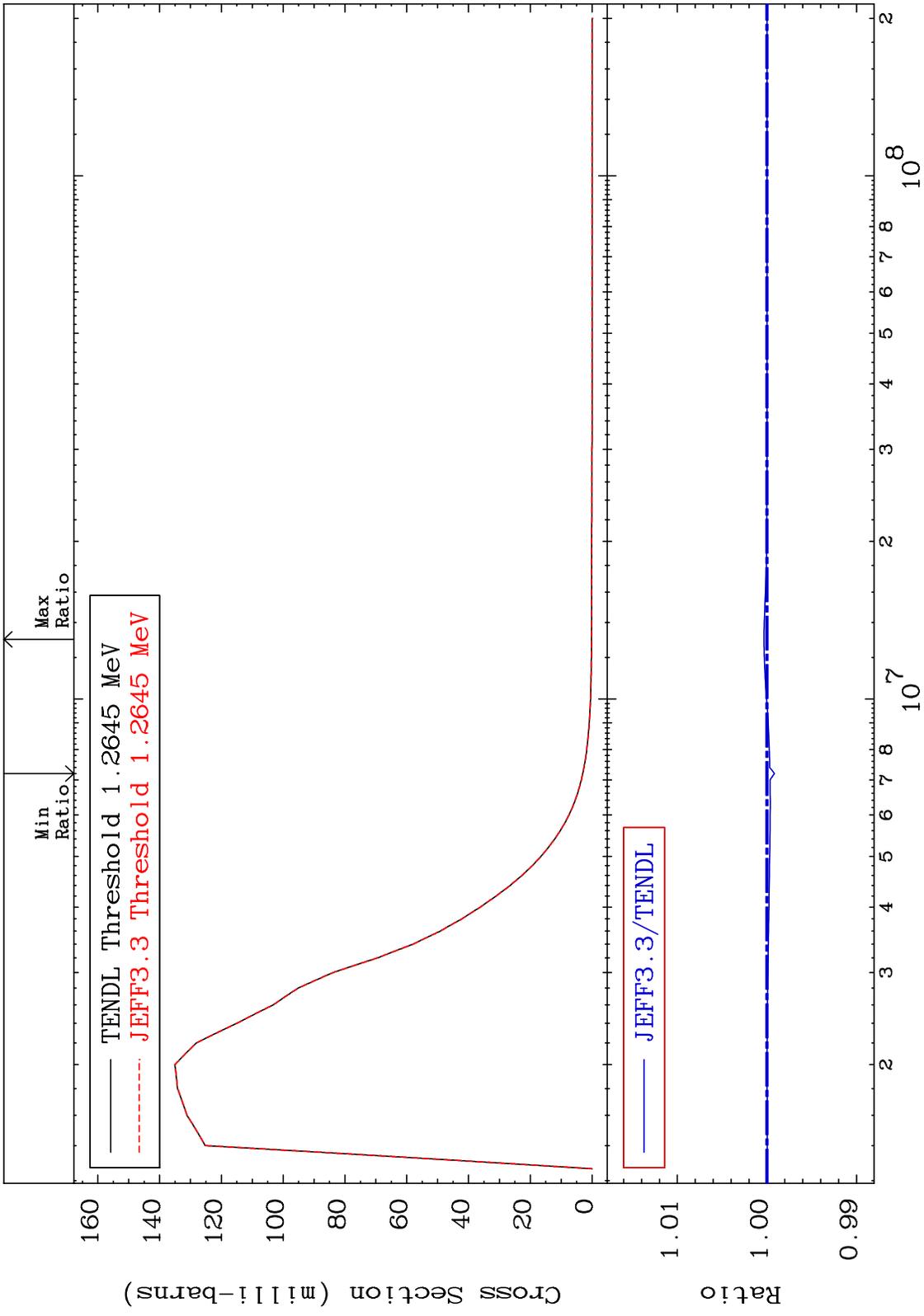


24 Incident Energy (eV) 21-Sc-45

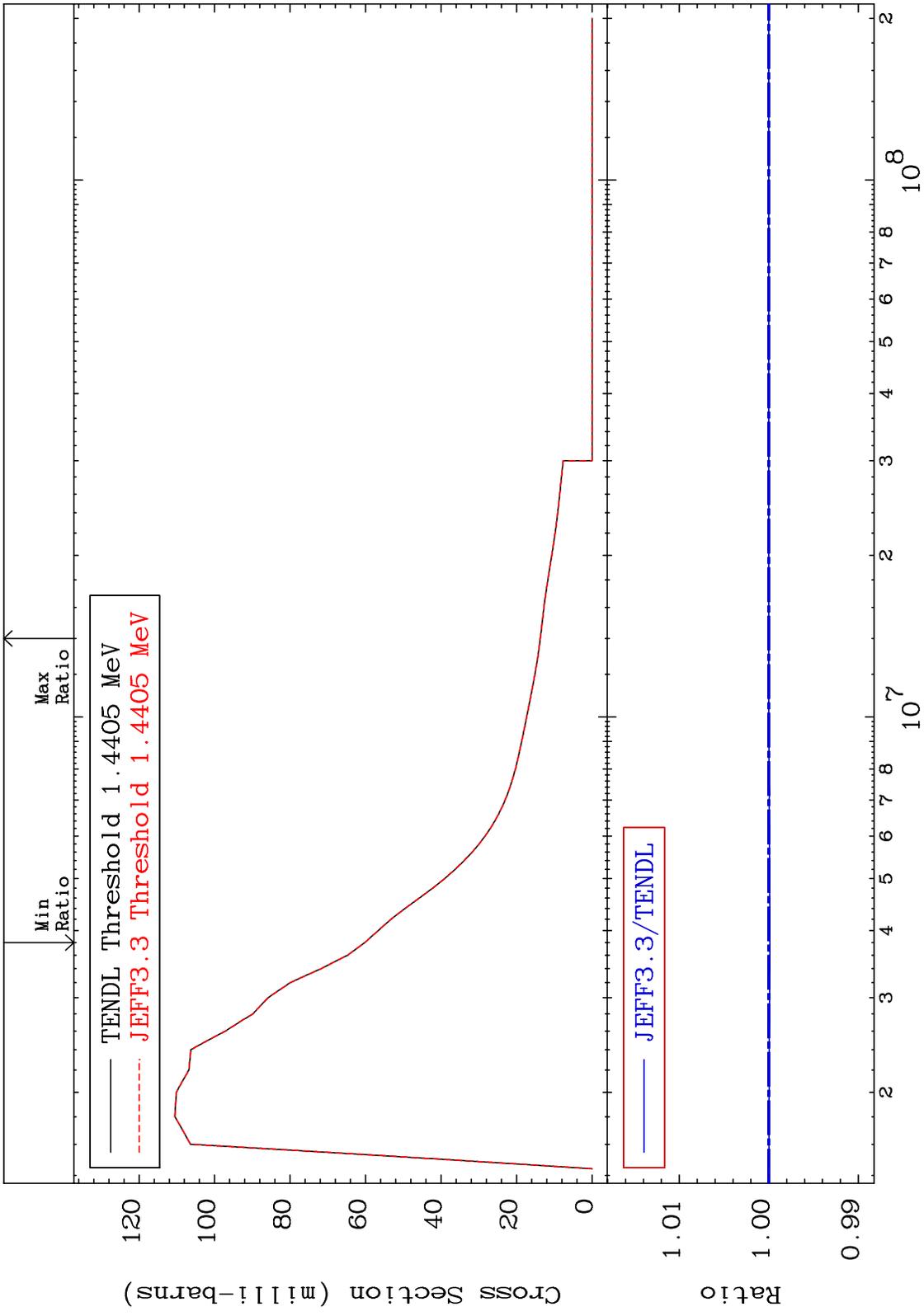
MAT 2125 MT= 57 (n,n') Level Cross Section 21-Sc-45
 -0.104 To 2.499 %



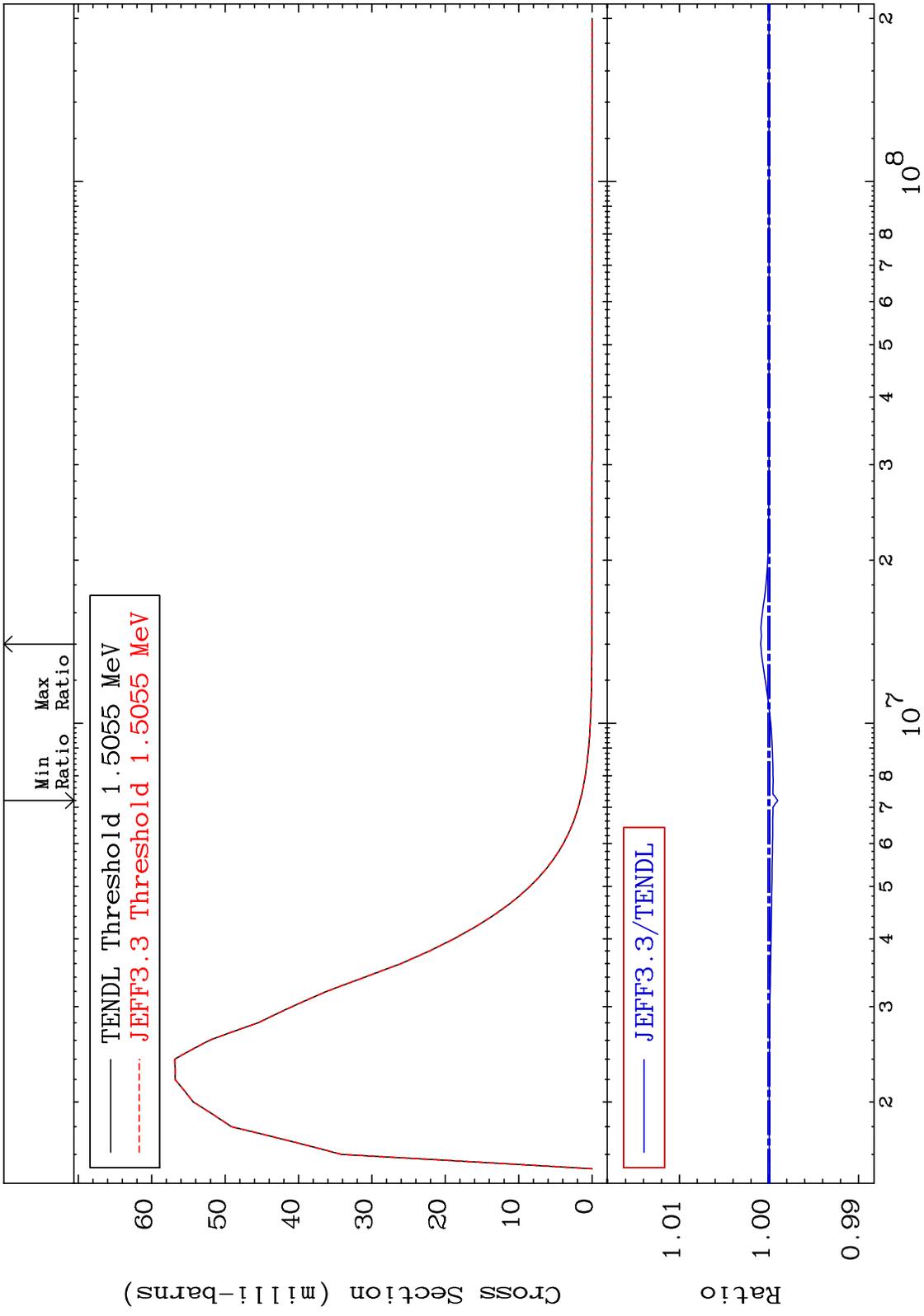
MAT 2125 MT= 58 (n, n') Level Cross Section 21-Sc-45
 -0.085 To 0.032 %



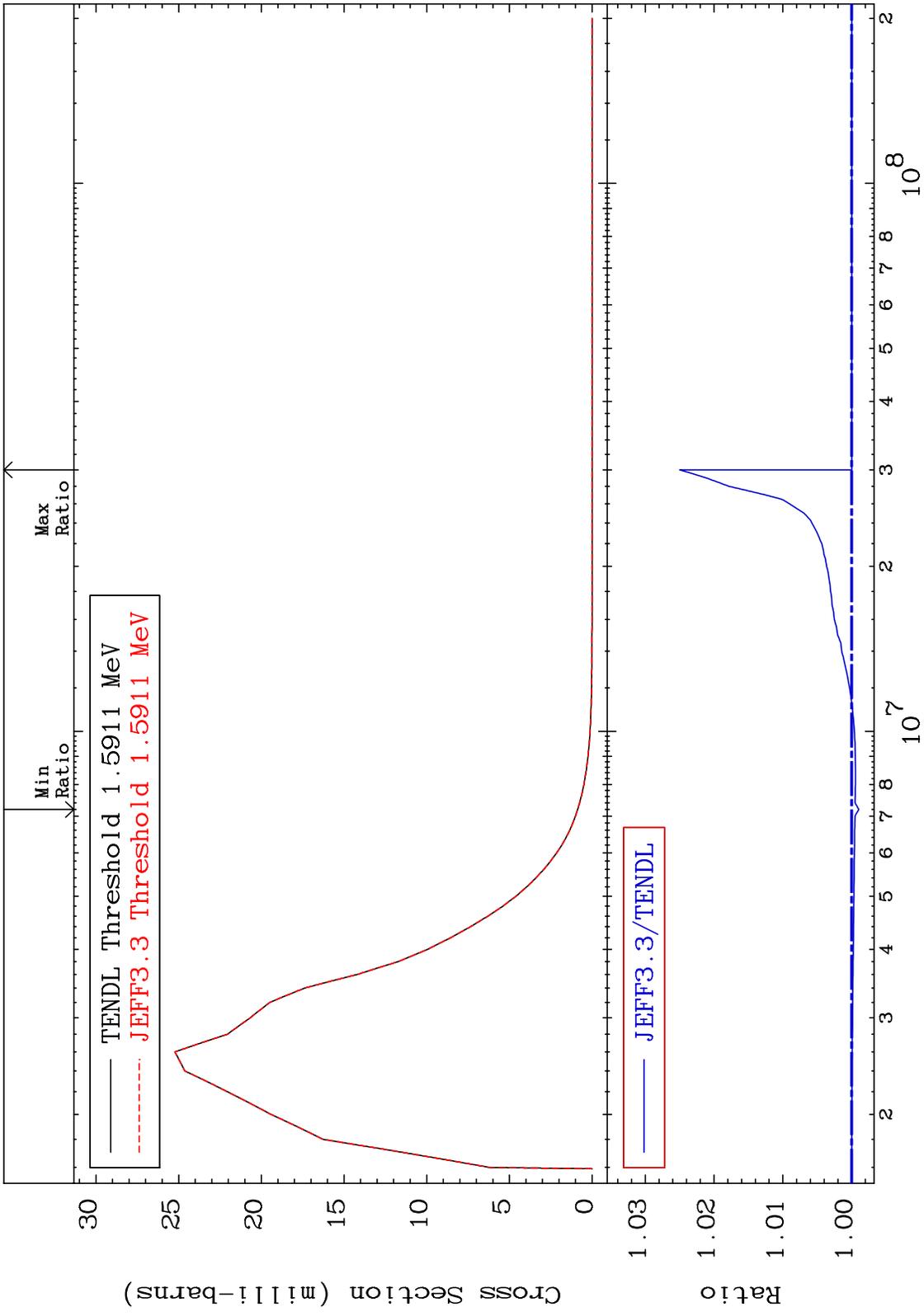
MAT 2125 MT= 61 (n,n') Level Cross Section -0.011 To 0.000 % 21-Sc-45



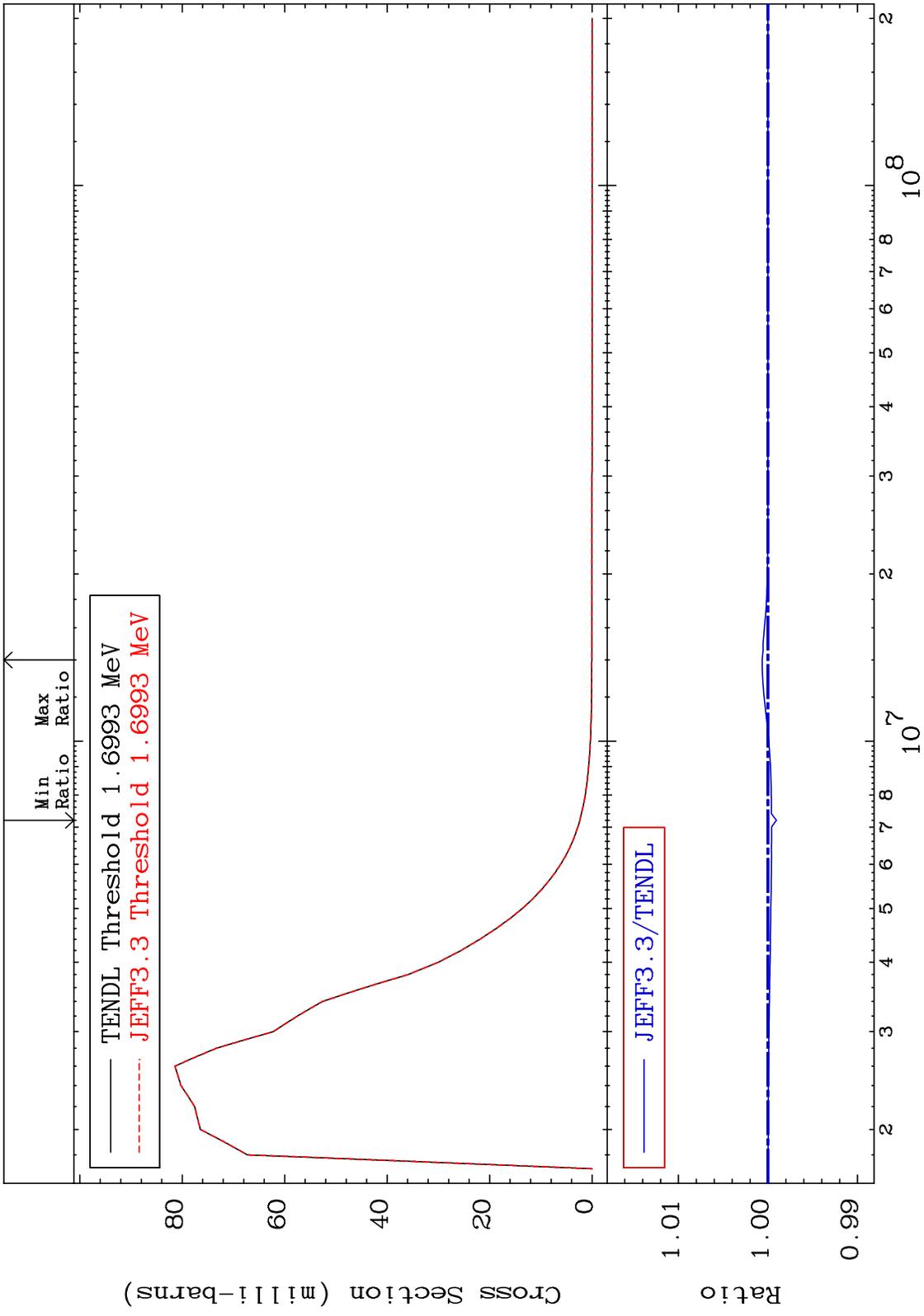
MAT 2125 MT= 63 (n,n') Level Cross Section -0.100 To 0.091 % 21-Sc-45



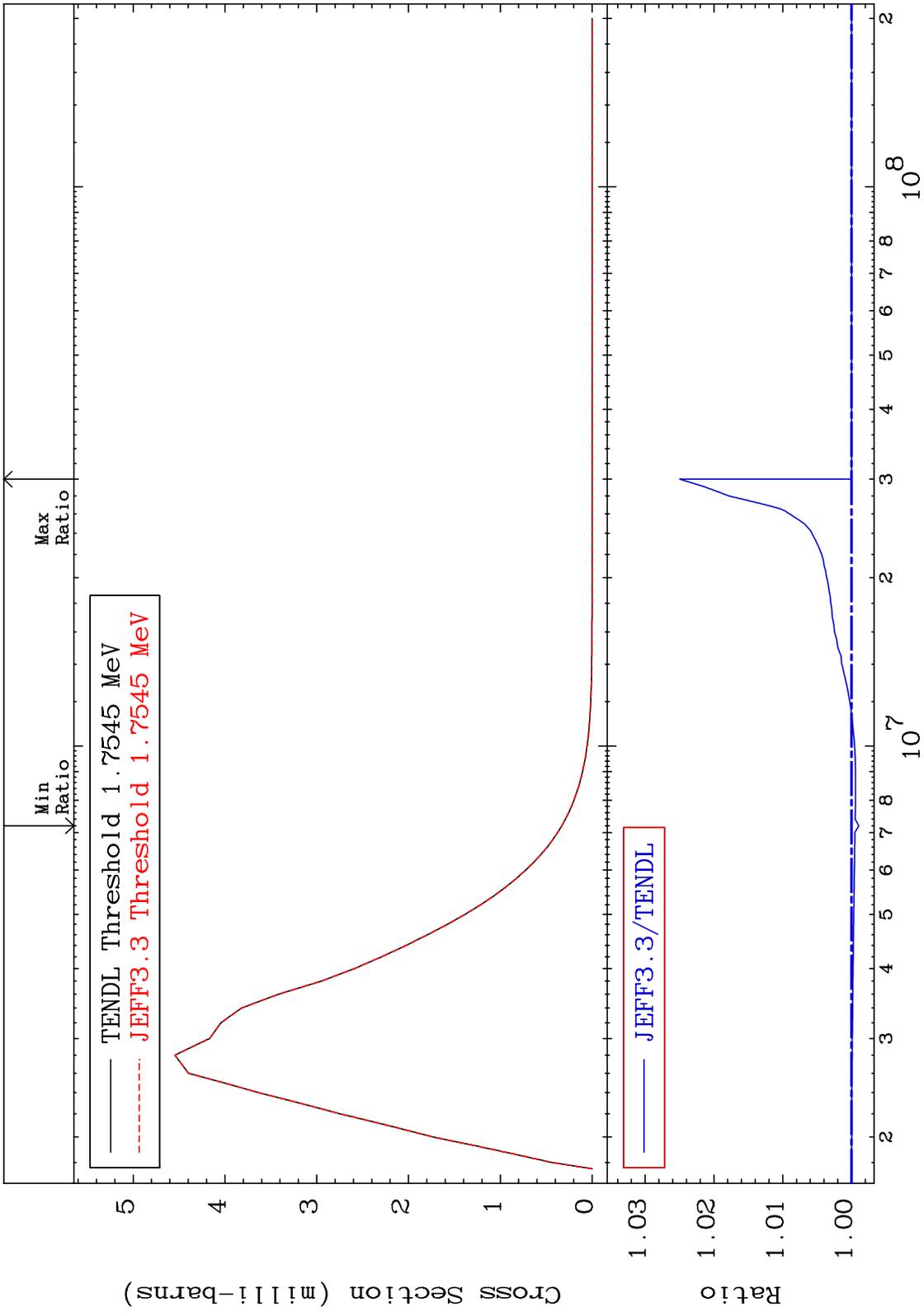
MAT 2125 MT= 64 (n,n') Level Cross Section -0.104 To 2.499 % 21-Sc-45



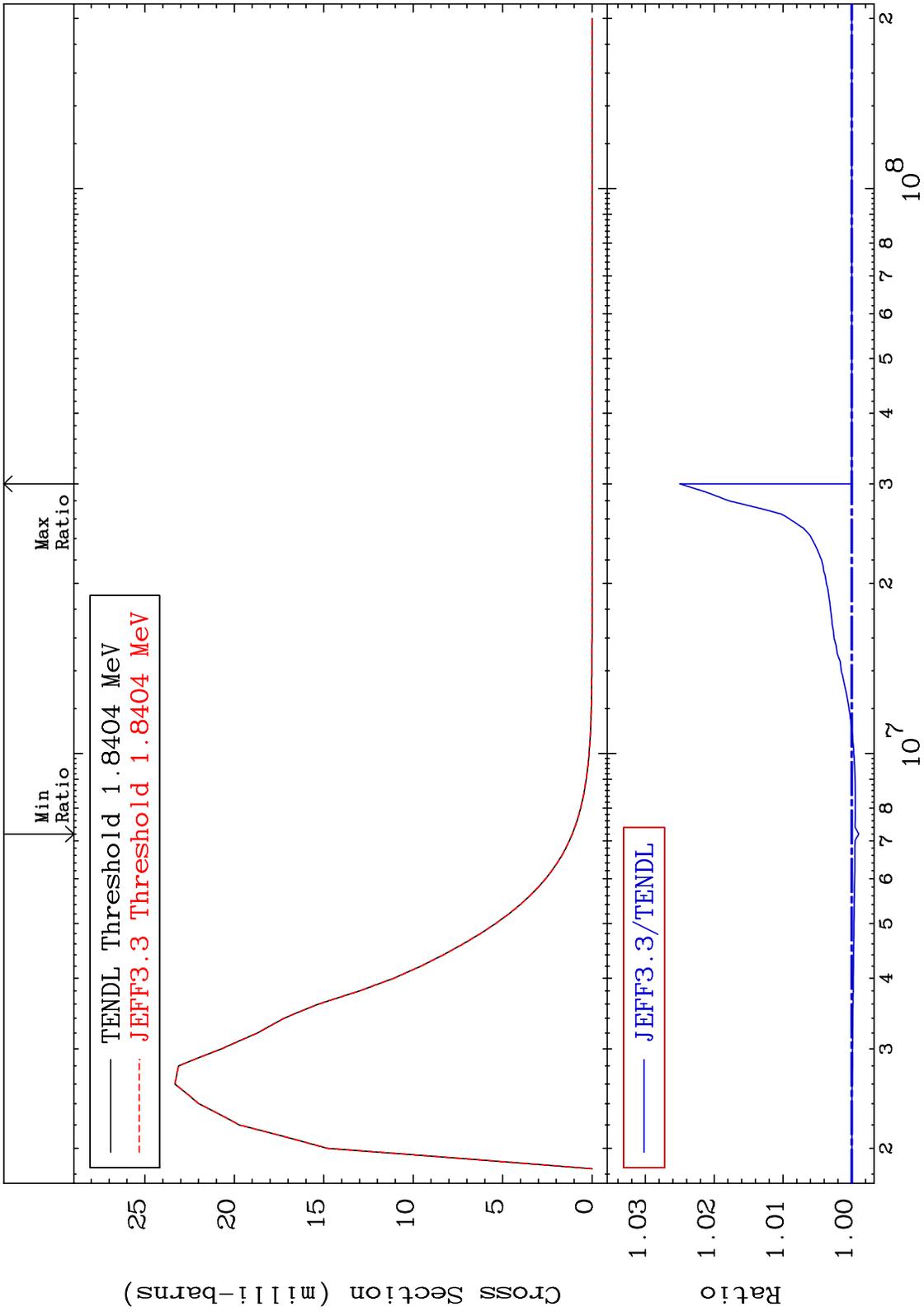
MAT 2125 MT= 65 (n,n') Level Cross Section -0.094 To 0.065 % 21-Sc-45



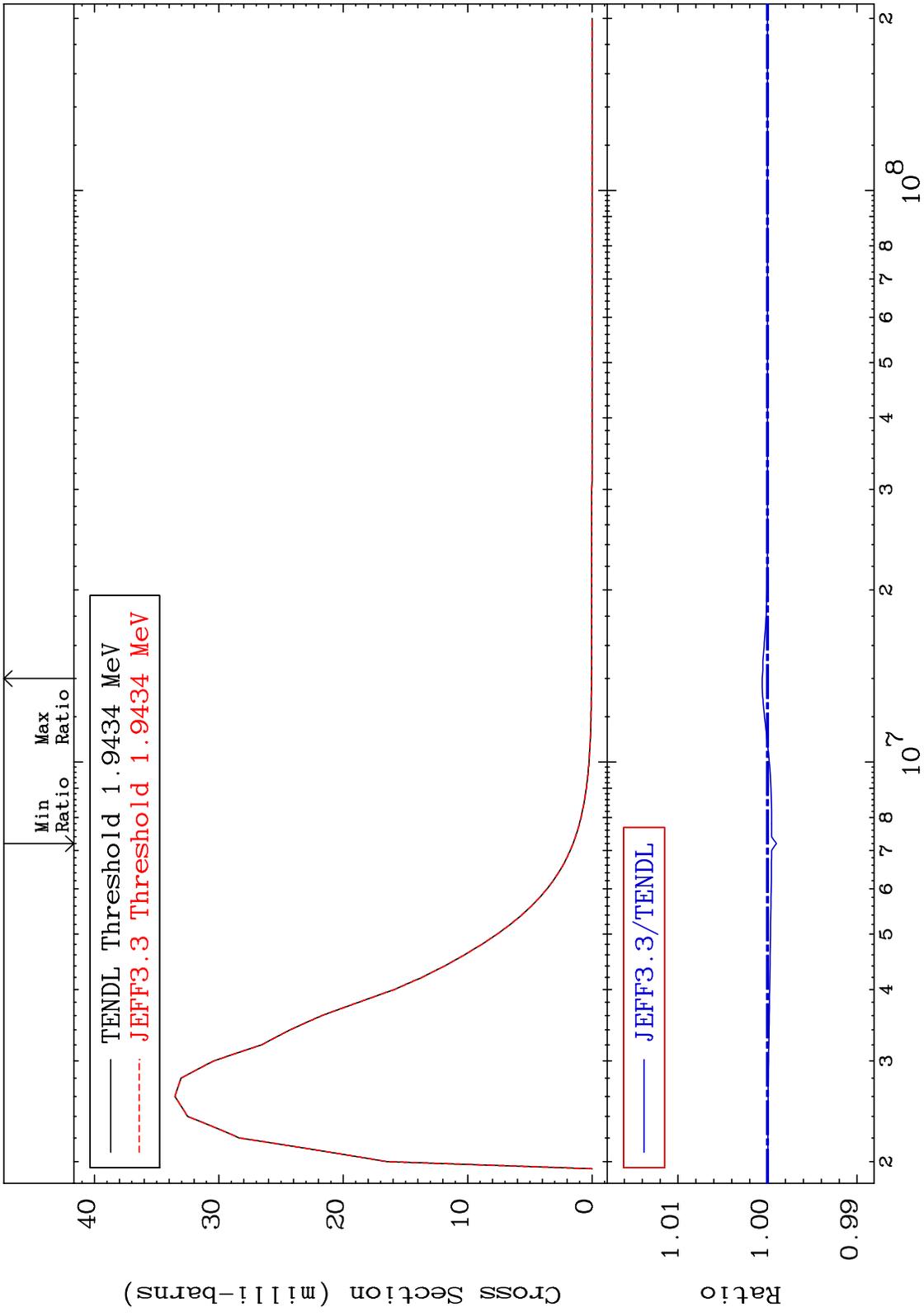
MAT 2125 MT= 66 (n,n') Level Cross Section -0.106 To 2.497 % 21-Sc-45



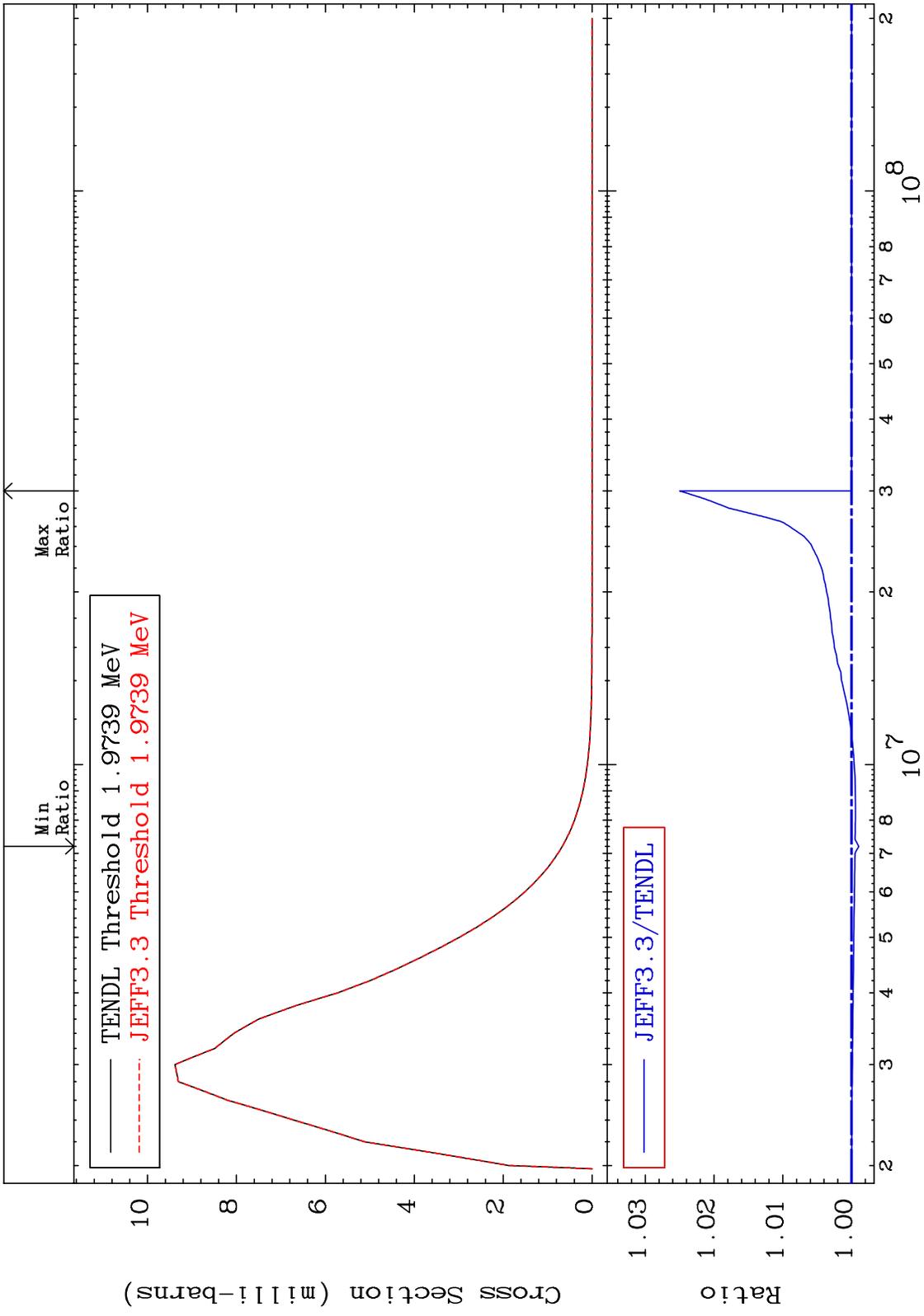
MAT 2125 MT= 67 (n,n') Level Cross Section -0.103 To 2.501 % 21-Sc-45



MAT 2125 MT= 68 (n,n') Level Cross Section 21-Sc-45
 -0.099 To 0.060 %



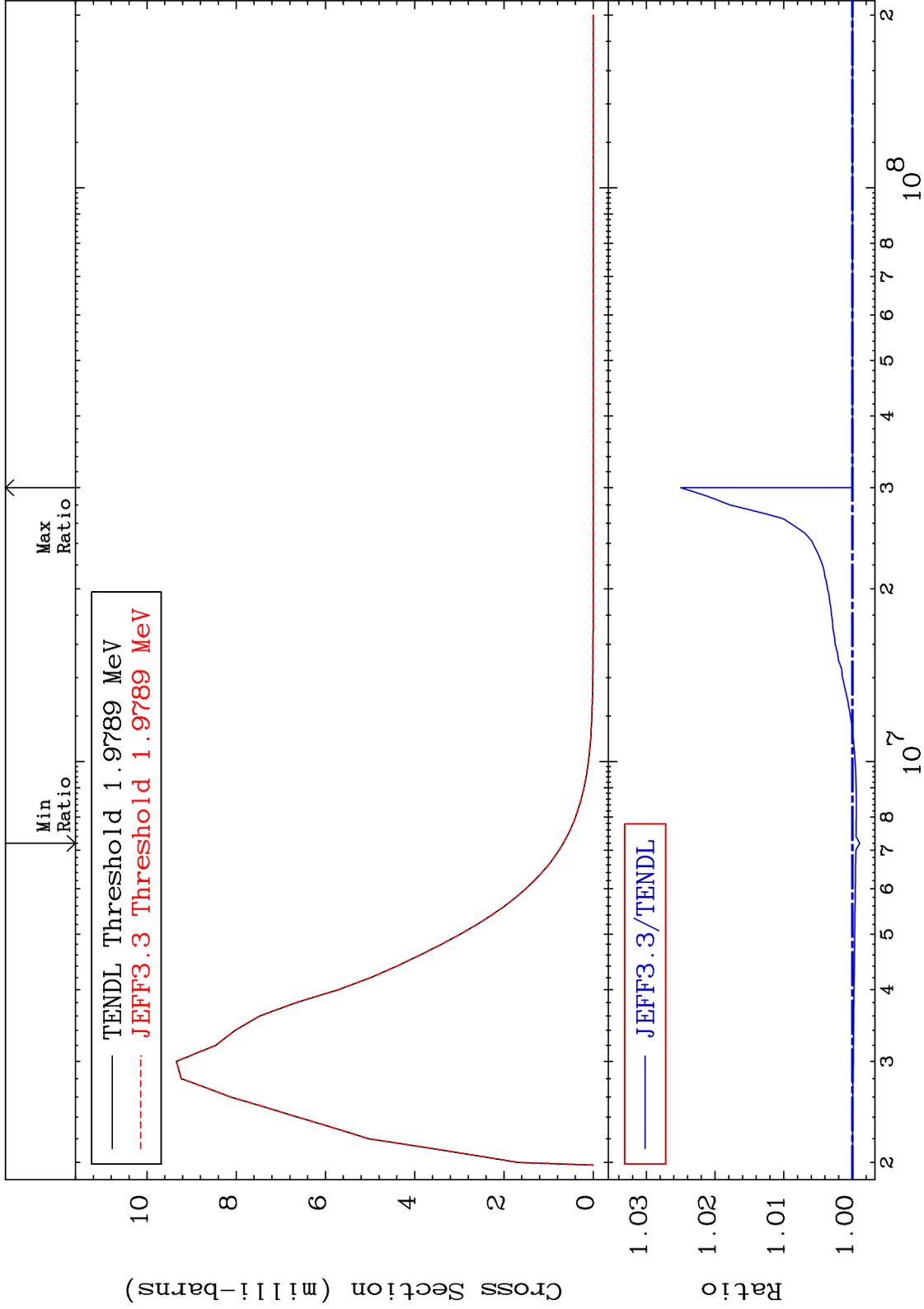
MAT 2125 MT= 69 (n,n') Level Cross Section -0.105 To 2.498 % 21-Sc-45



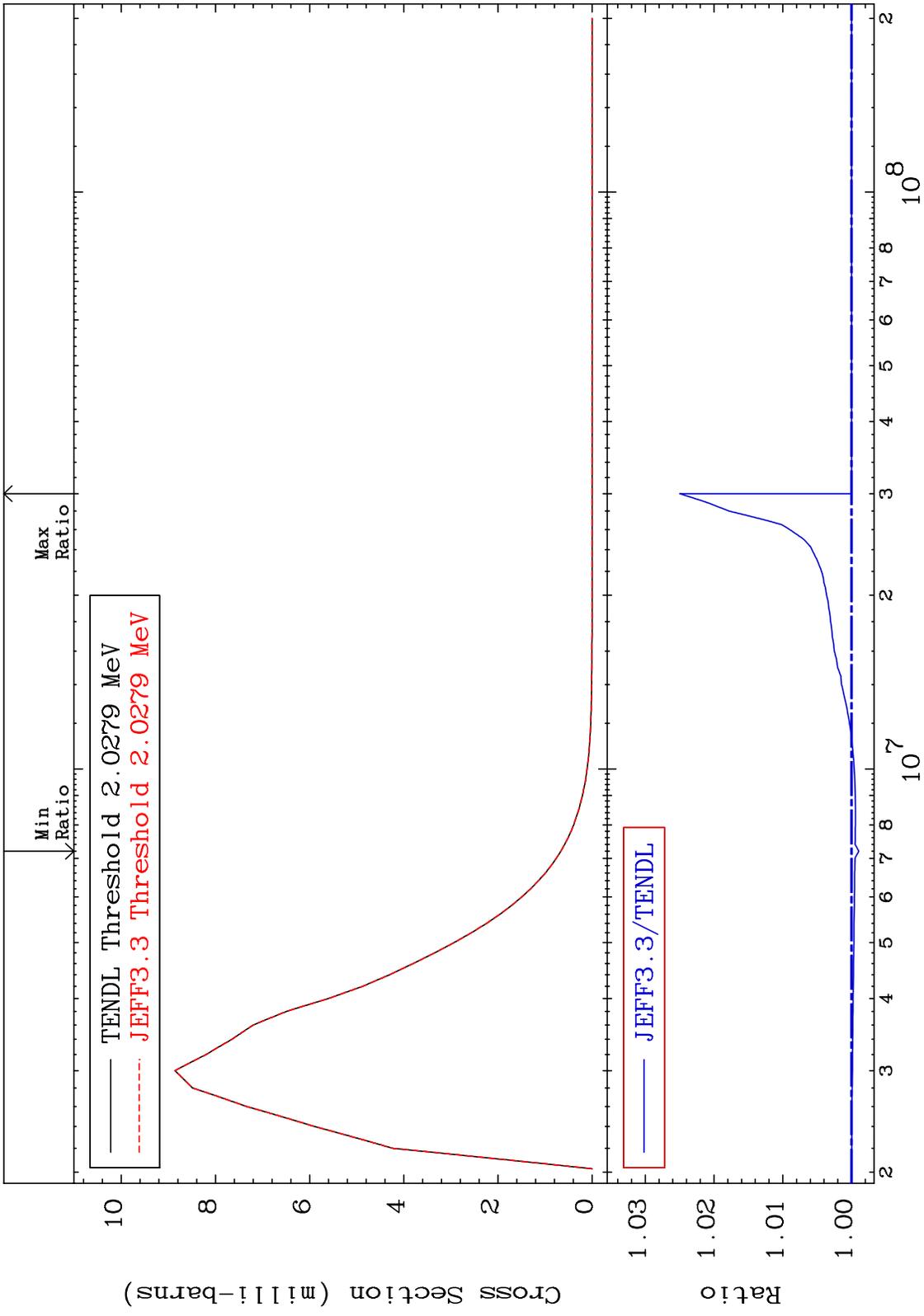
MAT 2125

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

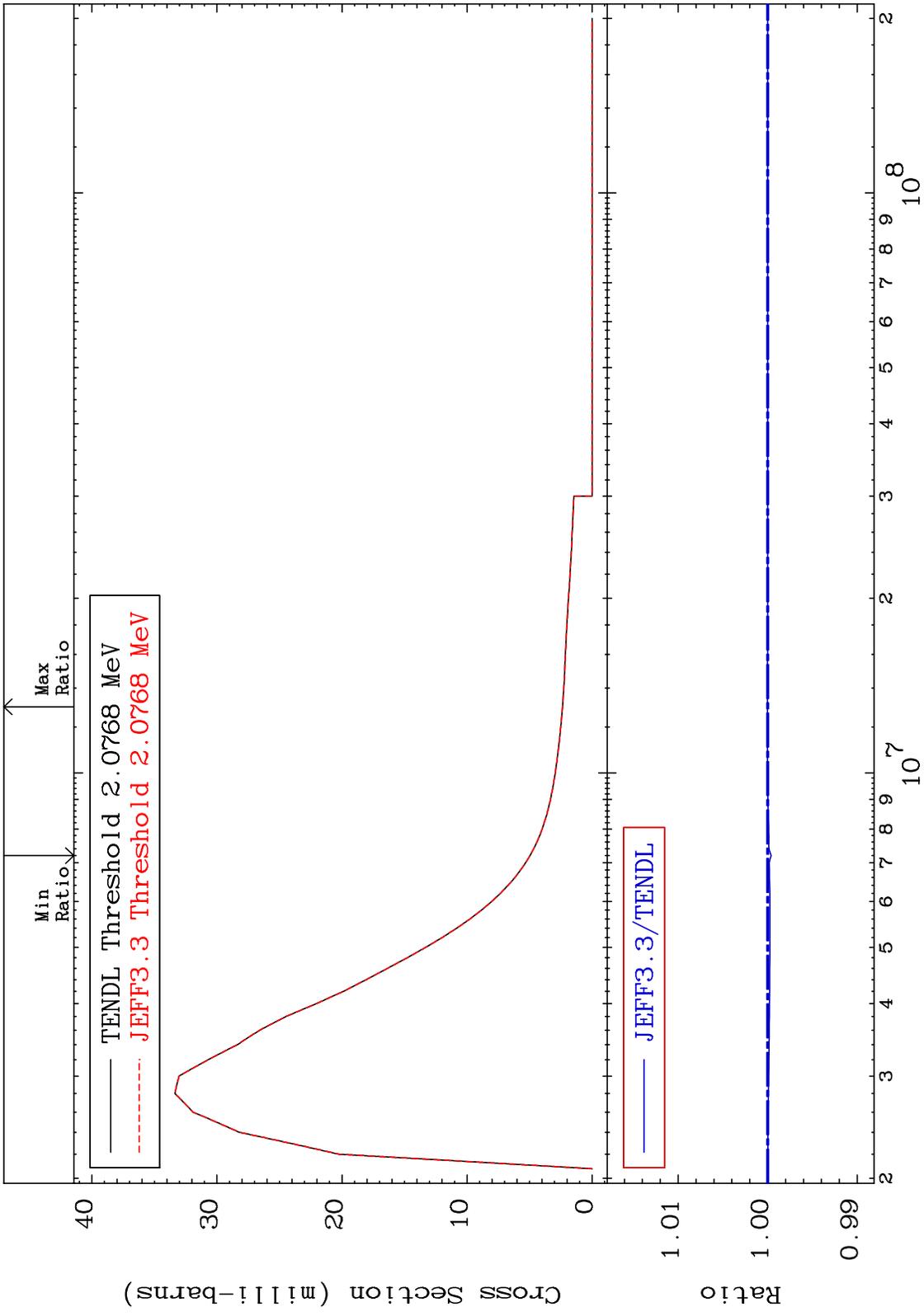
21-Sc-45
-0.105 To 2.498 %



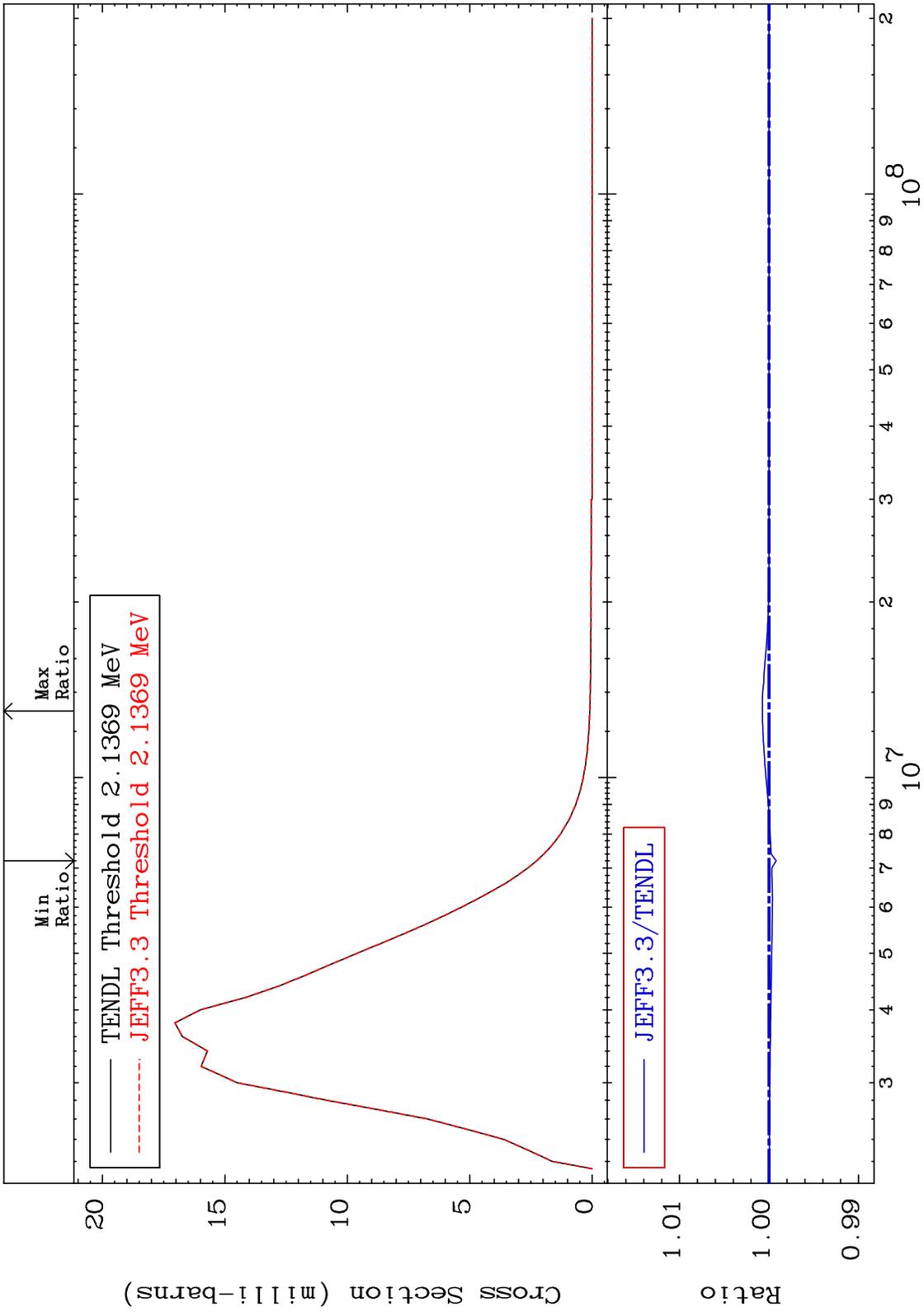
MAT 2125 MT= 71 (n,n') Level Cross Section -0.105 To 2.498 % 21-Sc-45



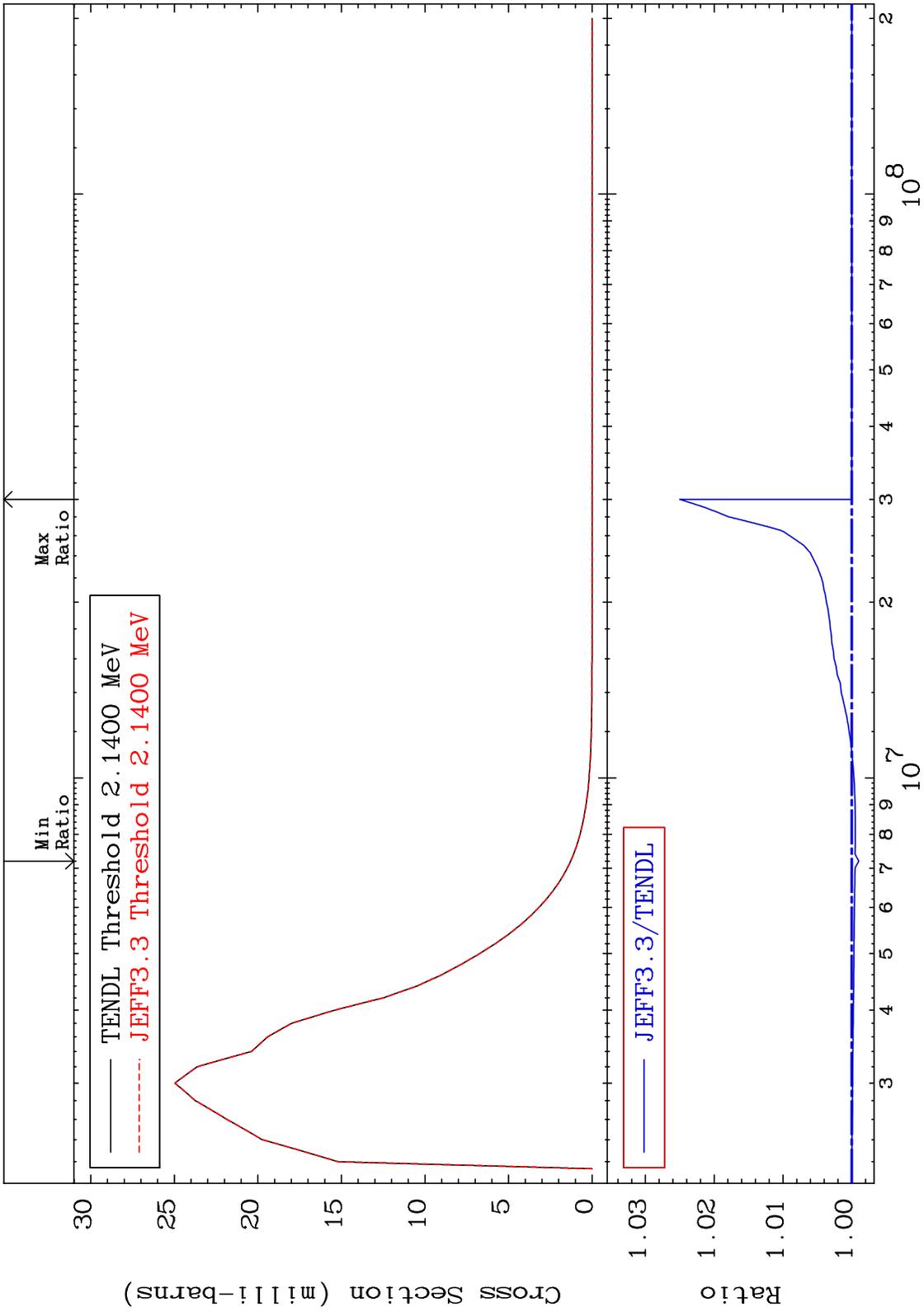
MAT 2125 MT= 72 (n,n') Level Cross Section 21-Sc-45
 -0.038 To 0.003 %



MAT 2125 MT= 73 (n,n') Level Cross Section 21-Sc-45
 -0.080 To 0.075 %



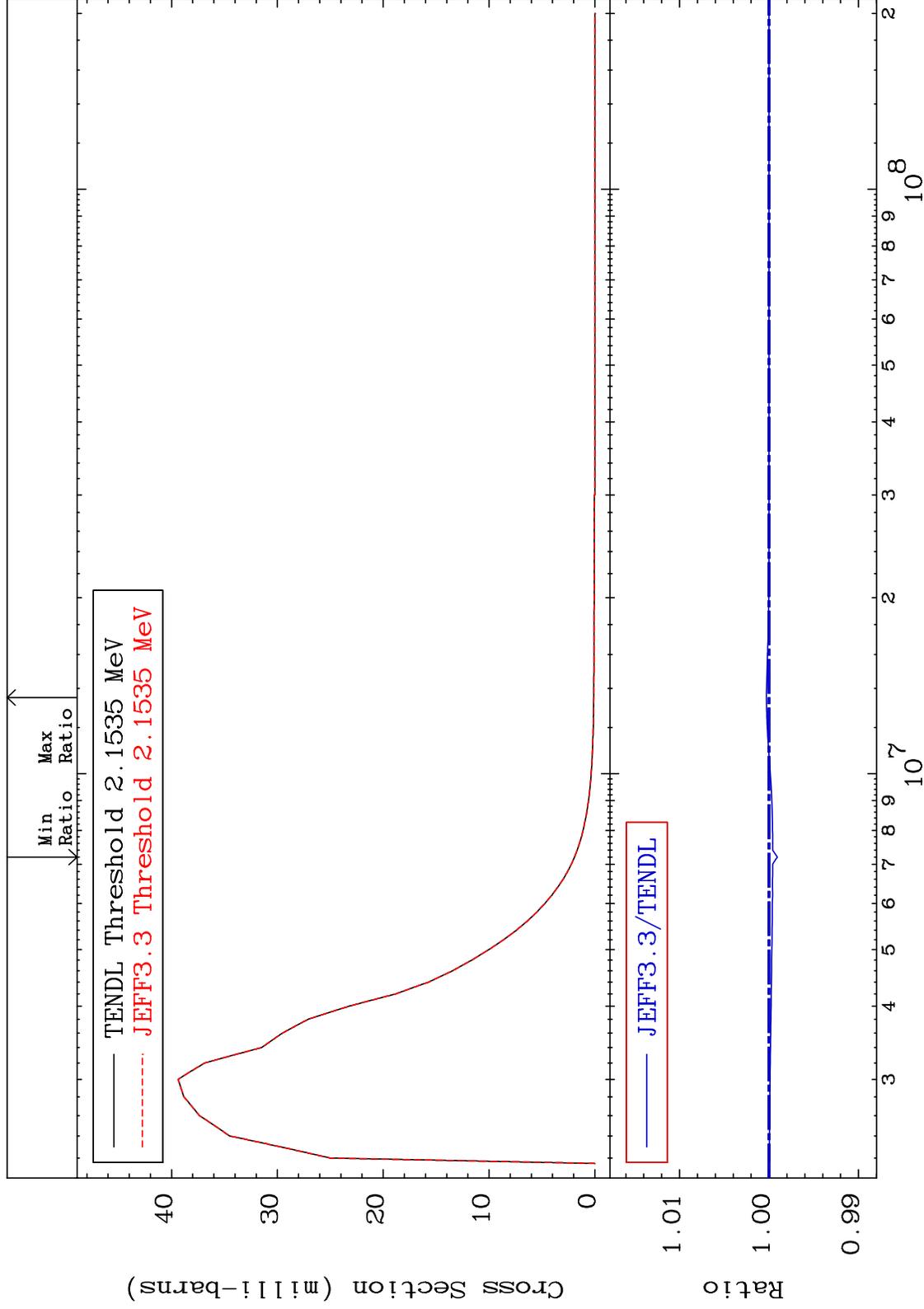
MAT 2125 MT= 74 (n,n') Level Cross Section -0.102 To 2.501 % 21-Sc-45



MAT 2125

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

21-Sc-45
-0.093 To 0.029 %

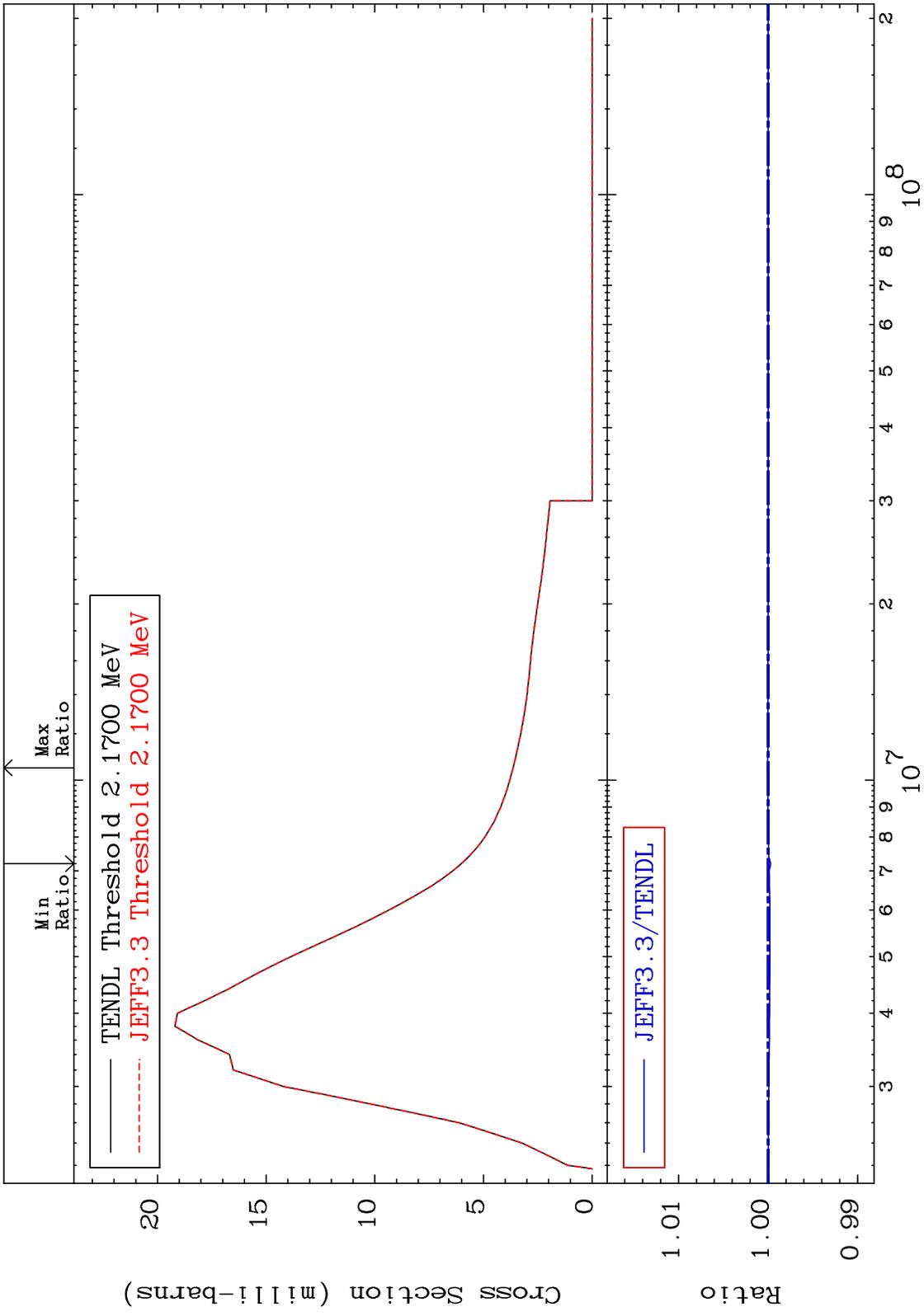


40

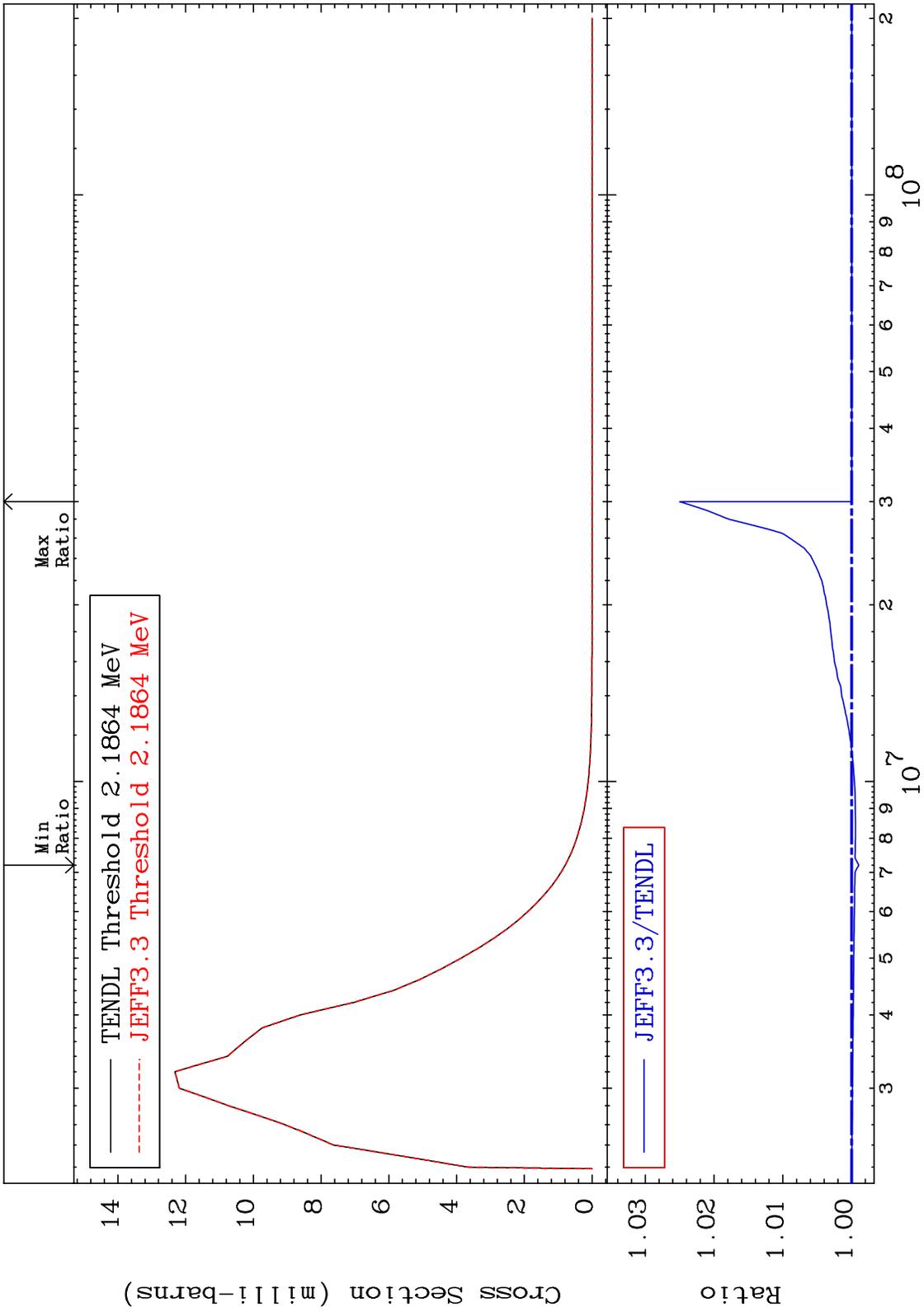
Incident Energy (eV)

21-Sc-45

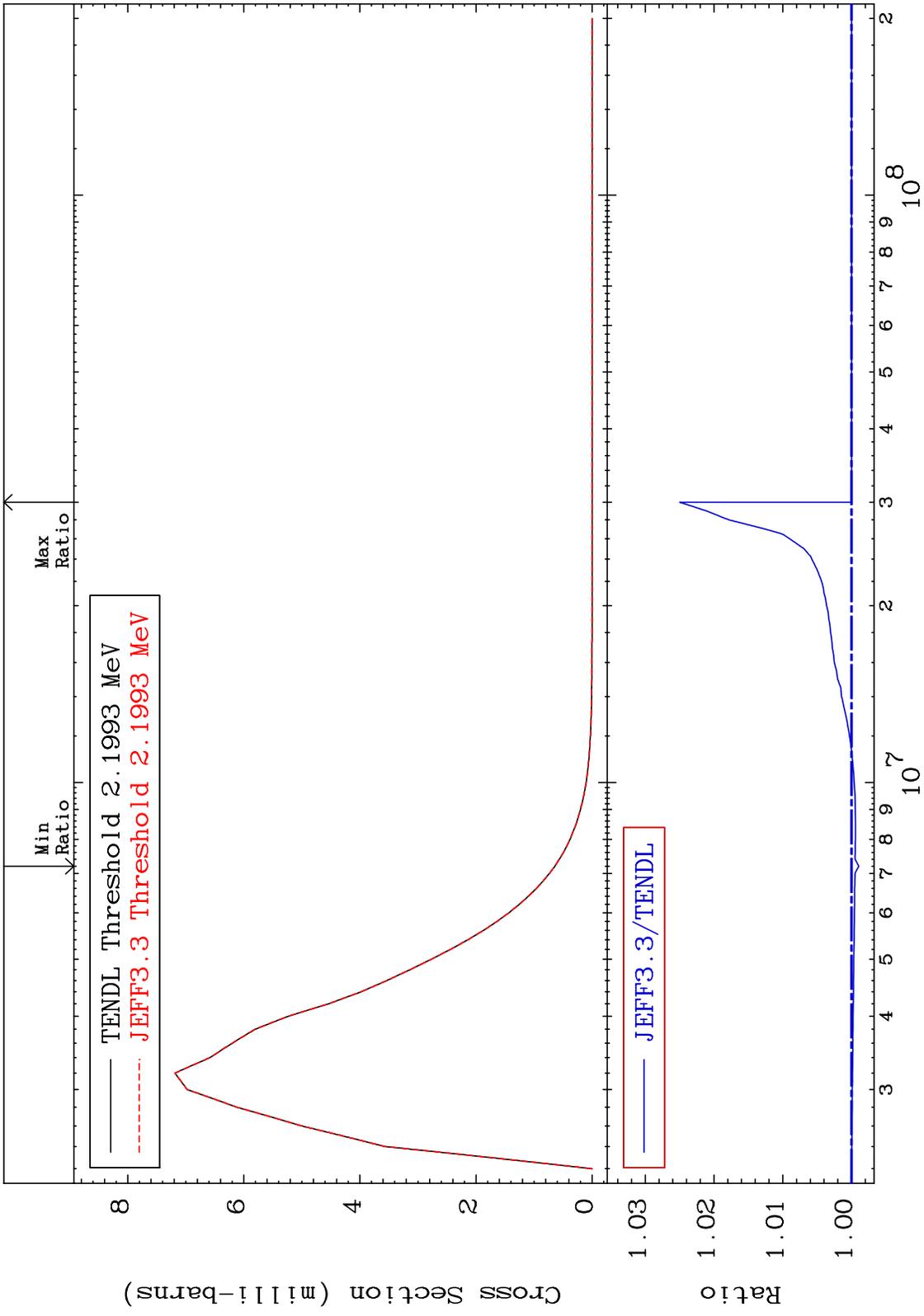
MAT 2125 MT= 76 (n,n') Level Cross Section 21-Sc-45
 -0.030 To 0.004 %



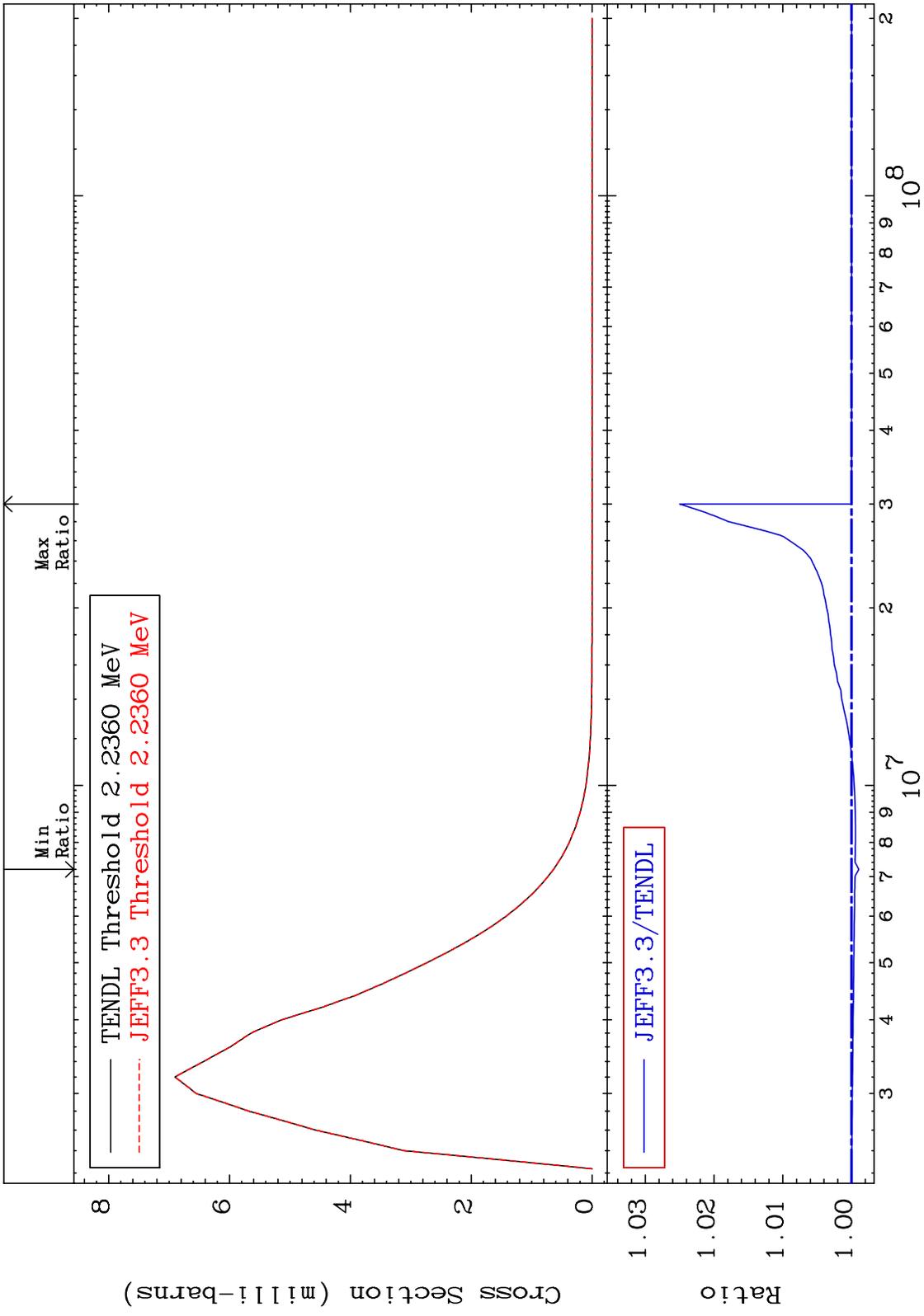
MAT 2125 MT= 77 (n,n') Level Cross Section -0.104 To 2.498 % 21-Sc-45



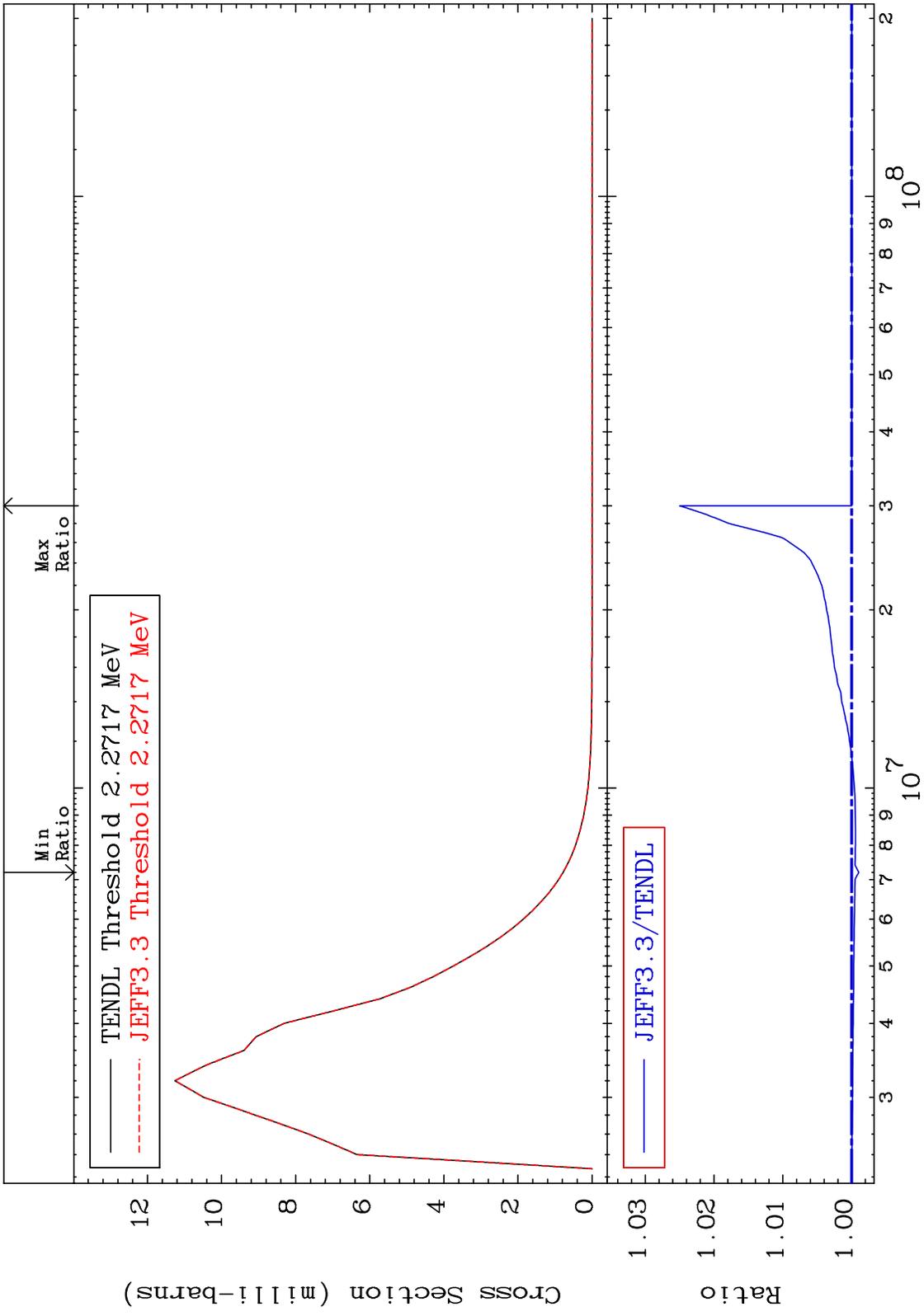
MAT 2125 MT= 78 (n,n') Level Cross Section -0.106 To 2.498 % 21-Sc-45



MAT 2125 MT= 79 (n,n') Level Cross Section -0.106 To 2.498 % 21-Sc-45



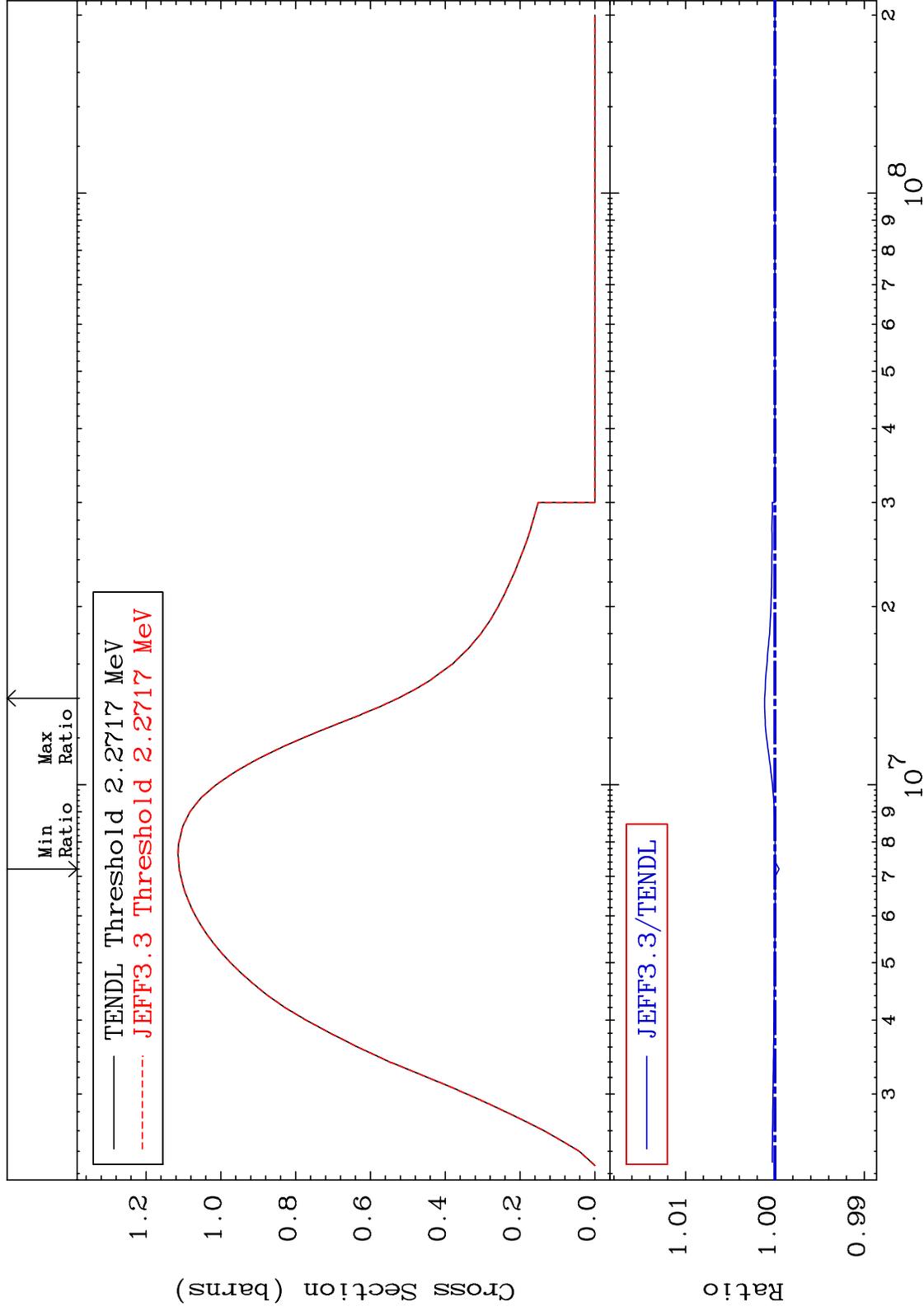
MAT 2125 MT= 80 (n,n') Level Cross Section -0.104 To 2.498 % 21-Sc-45



MAT 2125

(n, n') Continuum
Cross Section

21-Sc-45
-0.047 To 0.116 %



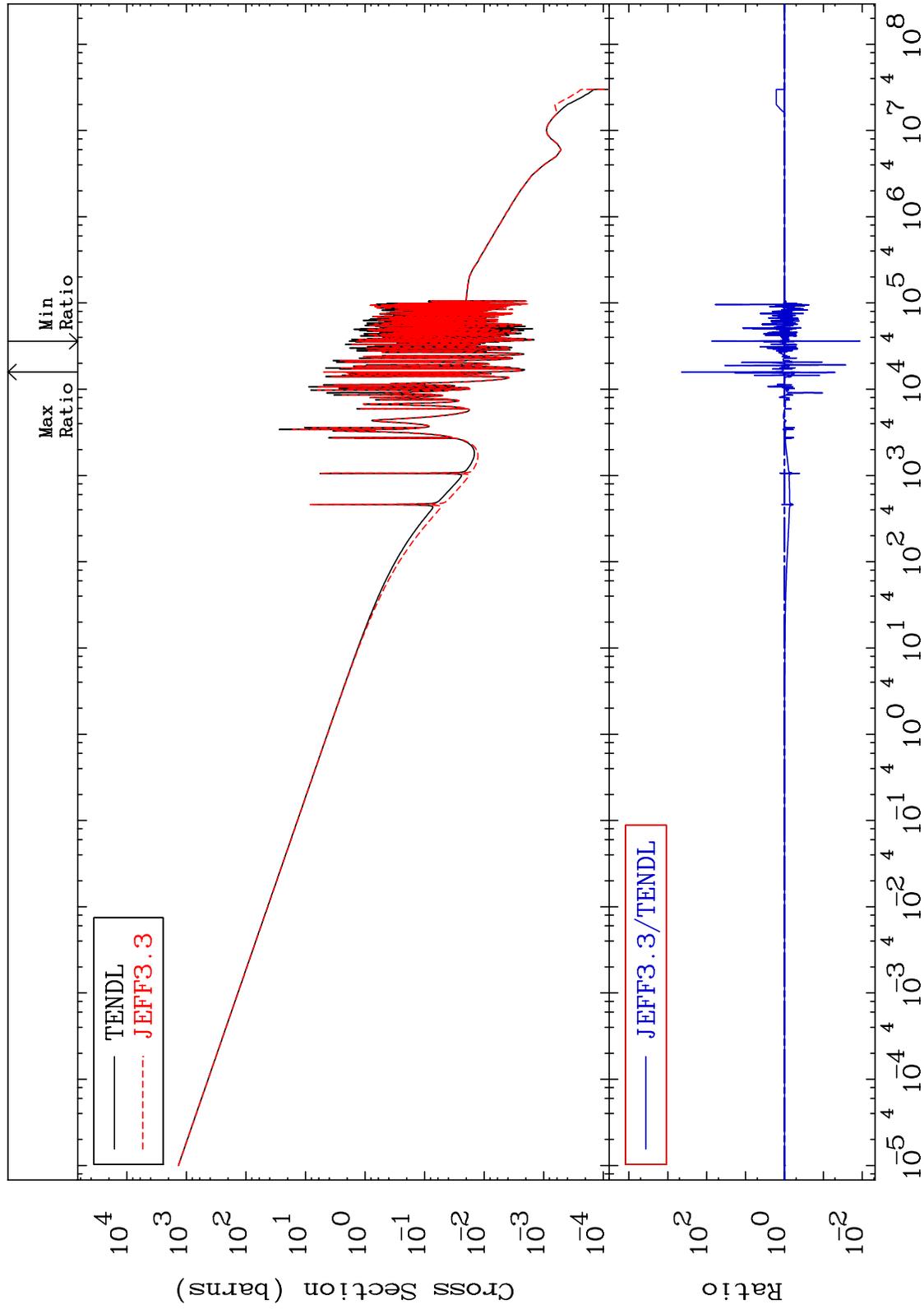
MAT 2125

(n, γ)

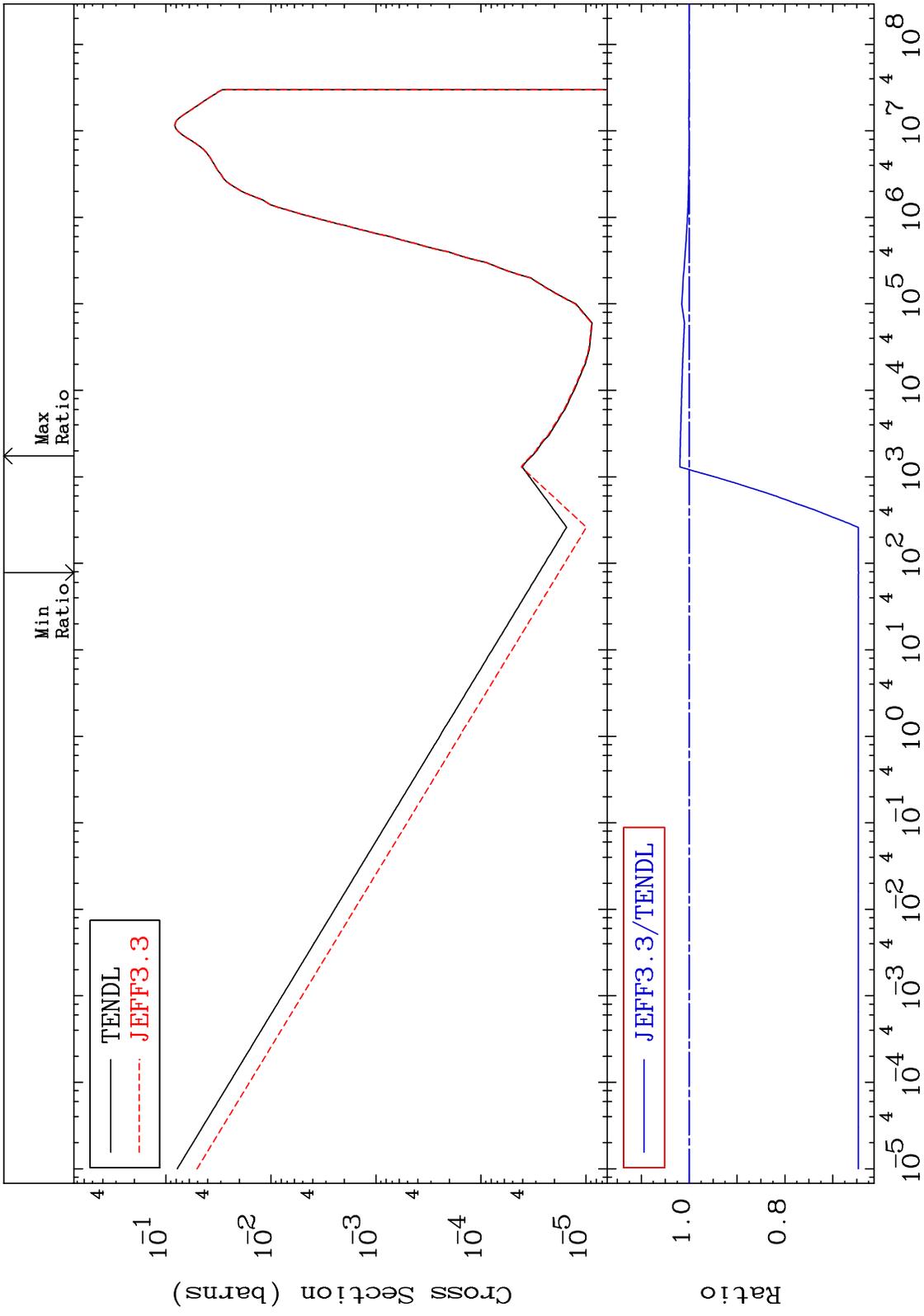
21-Sc-45

Cross Section

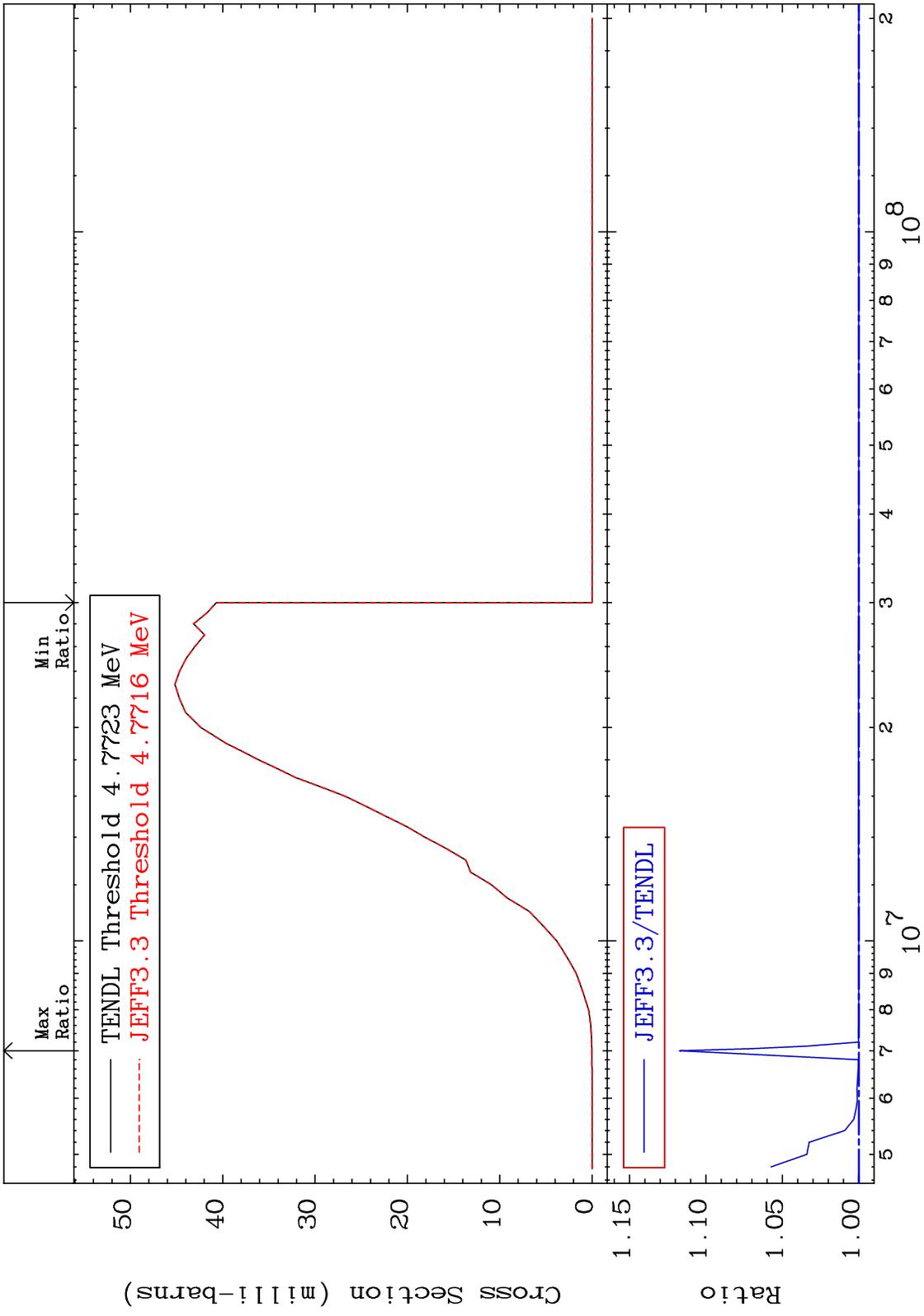
-98.85 To 9999. %



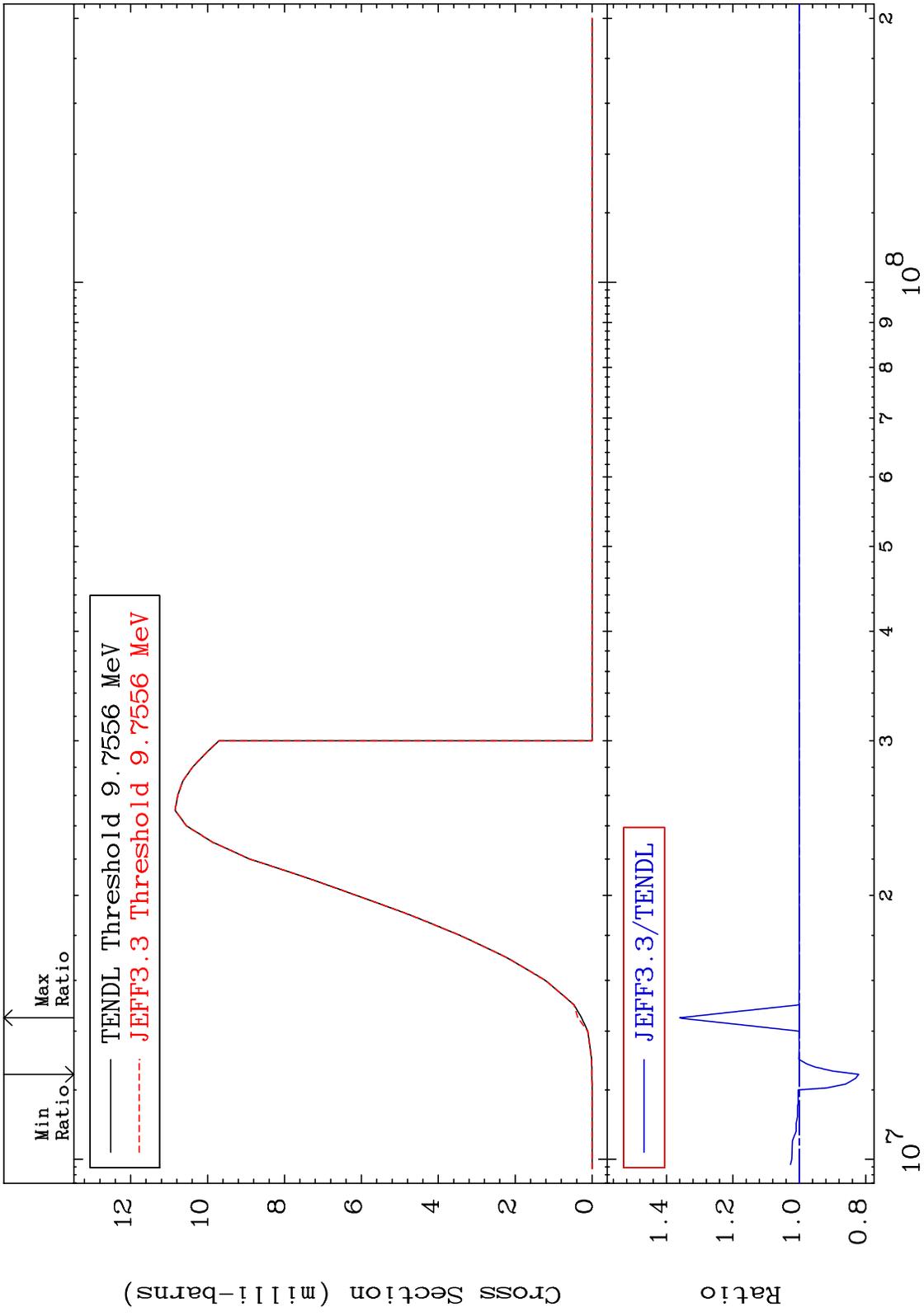
MAT 2125 (n,p) Cross Section 21-Sc-45
 -35.43 To 1.964 %



MAT 2125 (n,d) Cross Section 21-Sc-45 To 11.72 %

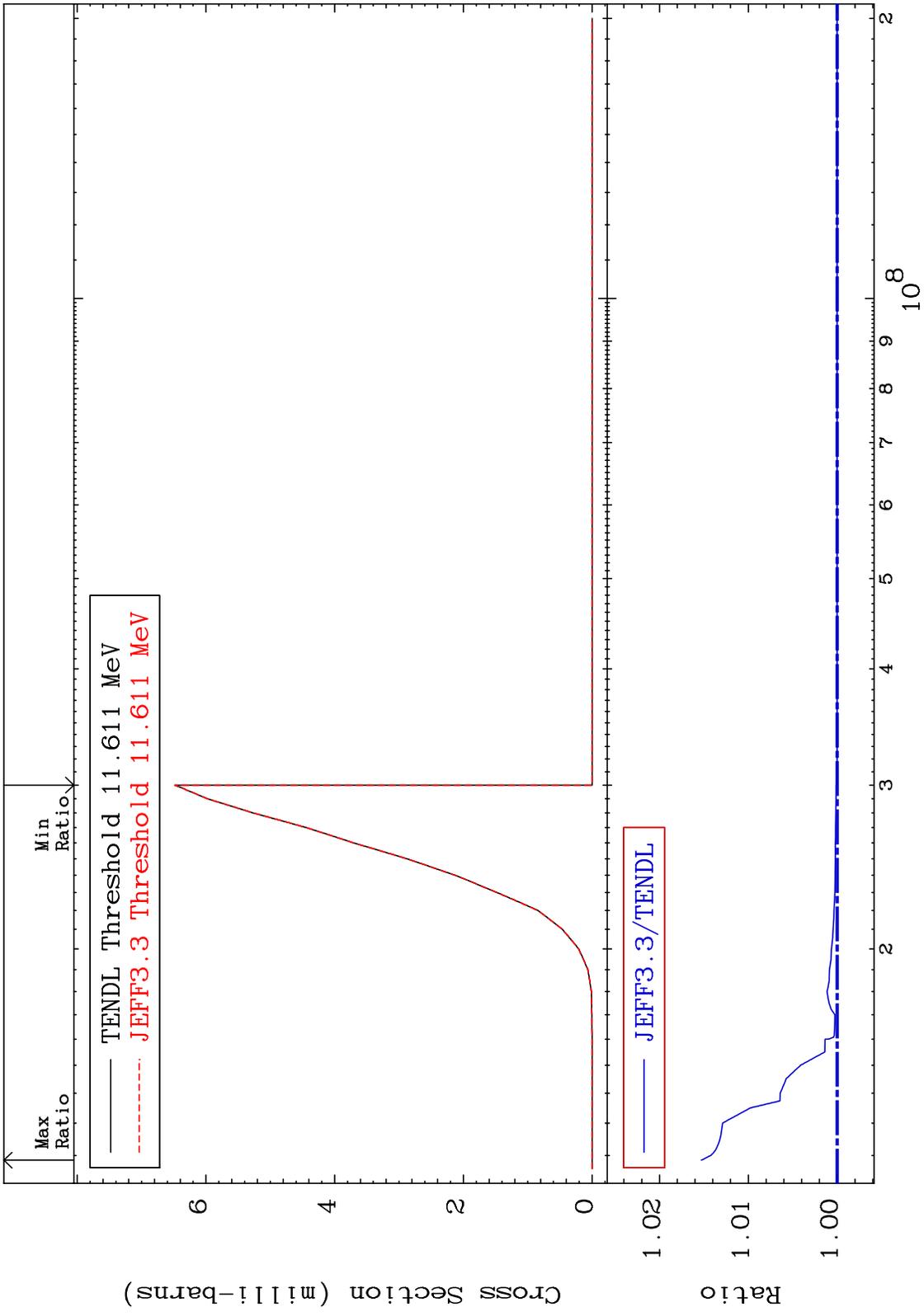


MAT 2125 (n,t) 21-Sc-45
Cross Section -17.92 To 36.01 %

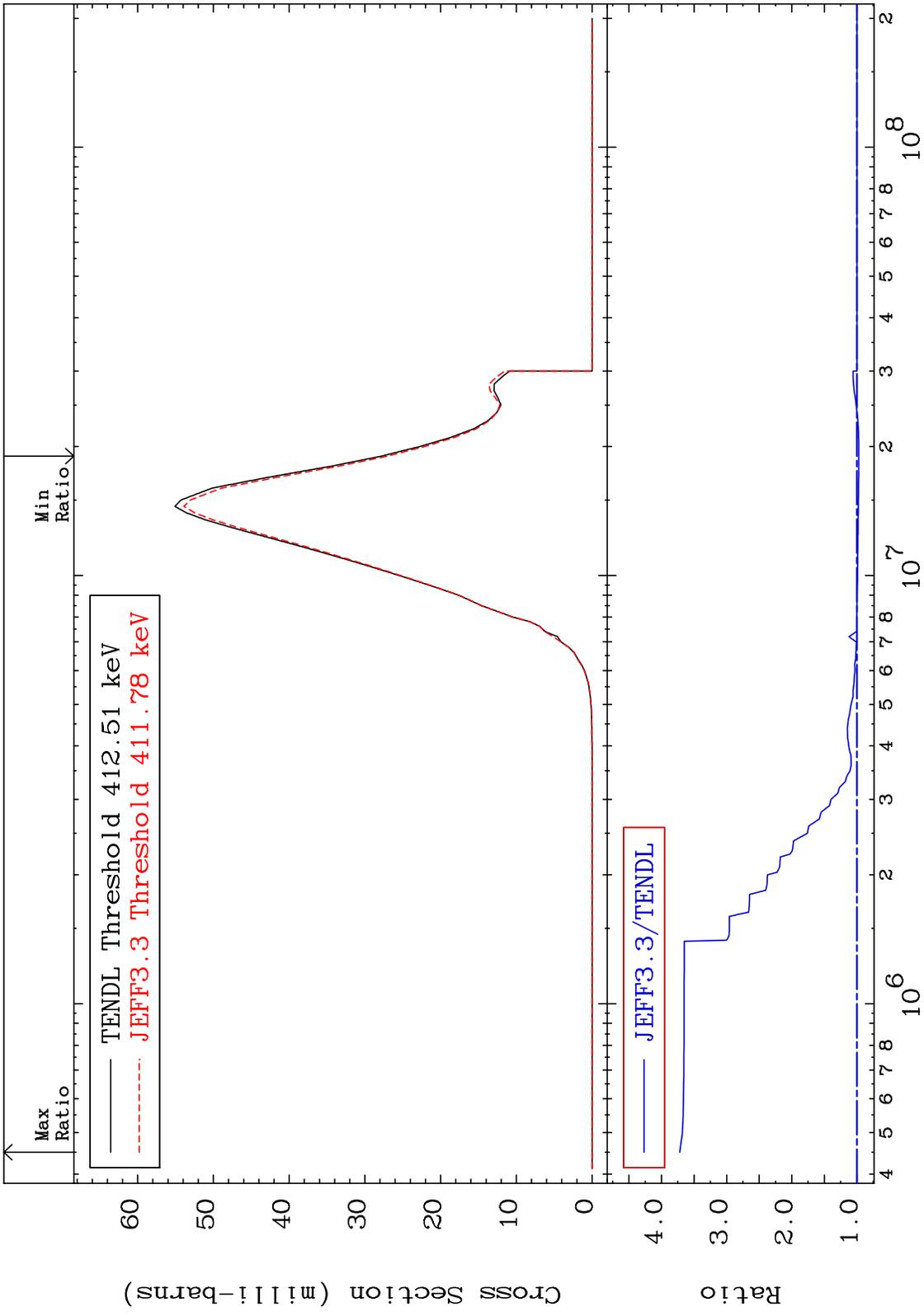


50 Incident Energy (eV) 21-Sc-45

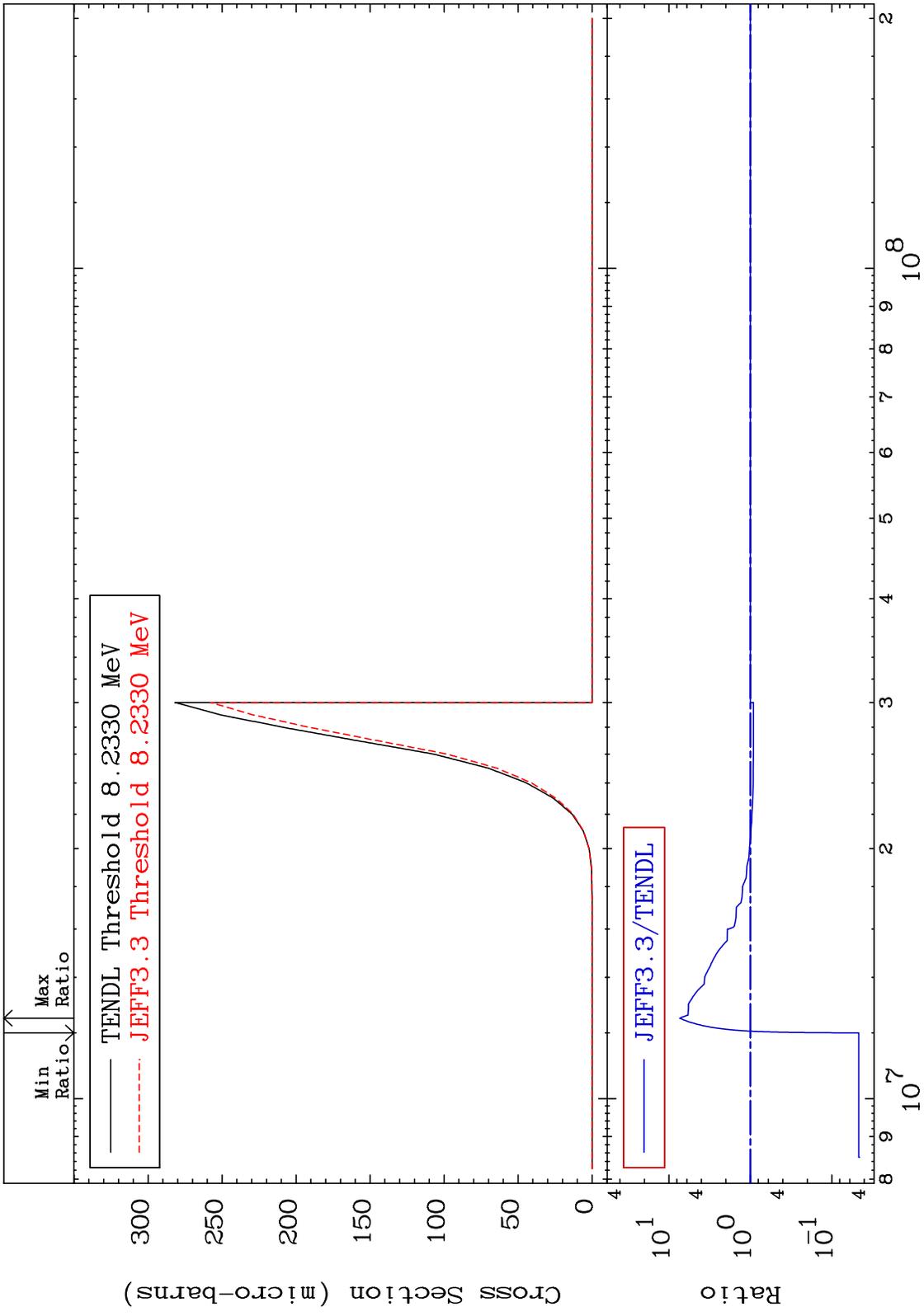
MAT 2125 (n, He-3) Cross Section 21-Sc-45 To 1.529 %

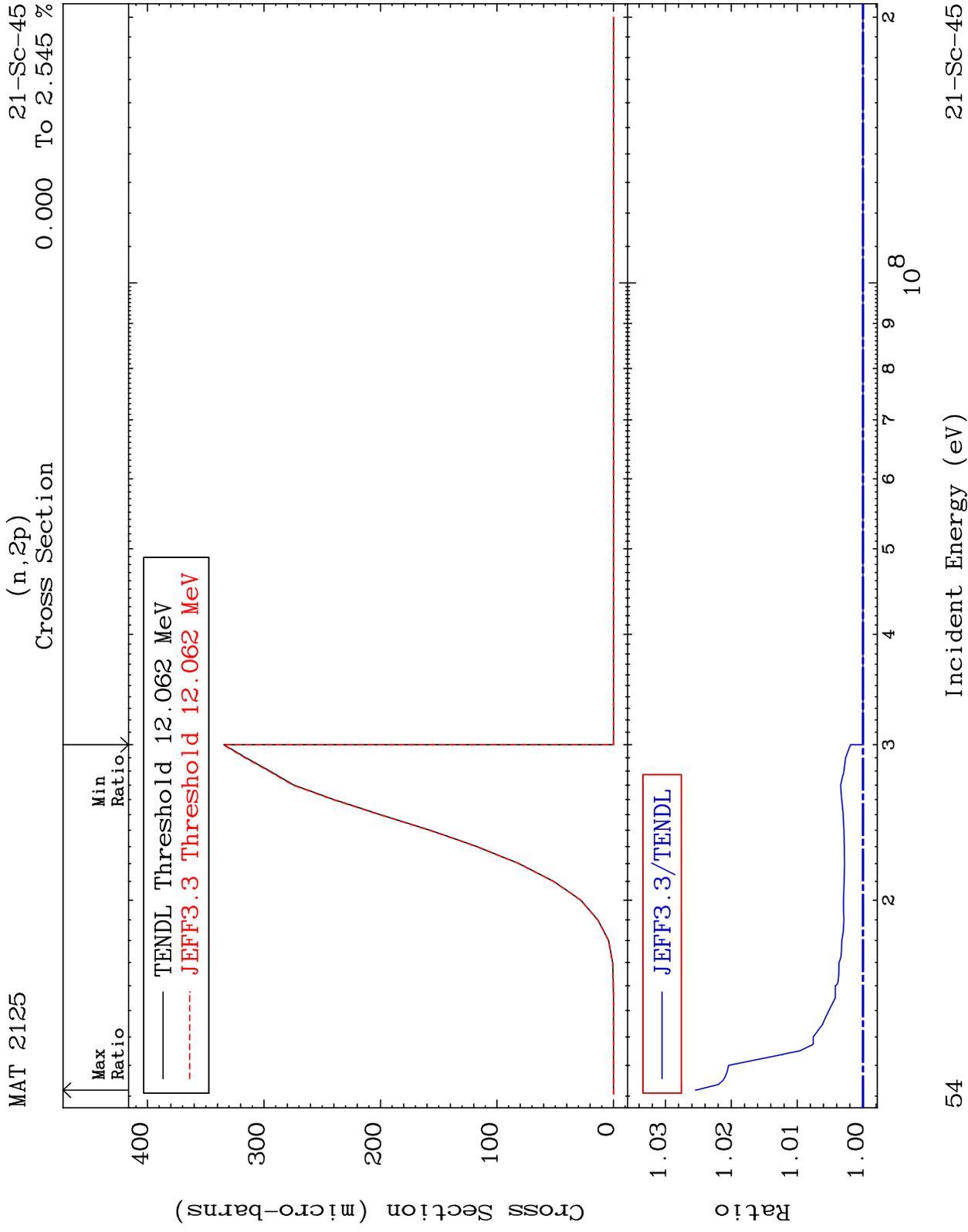


MAT 2125 (n,α) Cross Section 21-Sc-45 -2.893 To 272.0 %

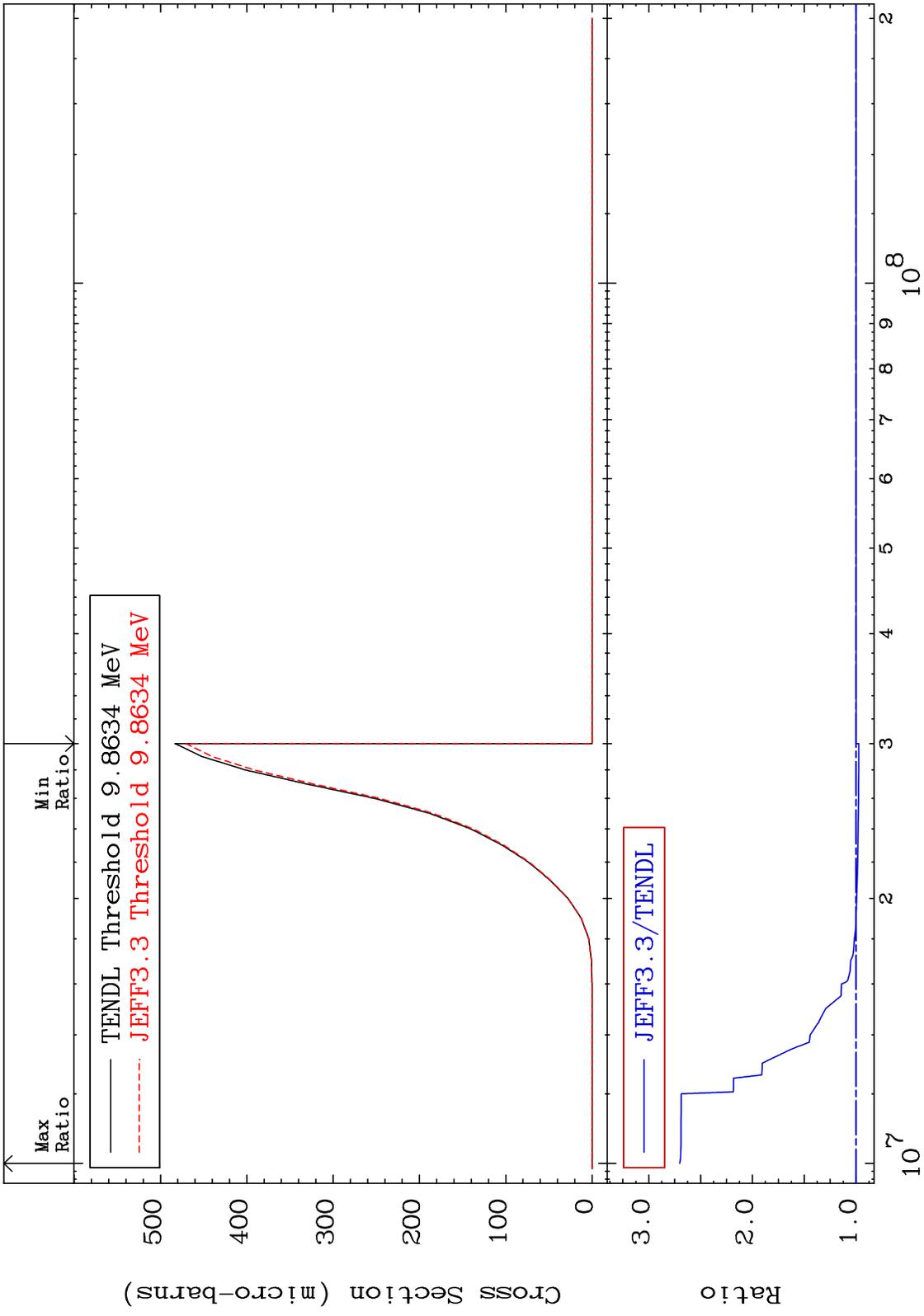


MAT 2125 $(n, 2\alpha)$ 21-Sc-45
 Cross Section -95.35 To 635.7 %



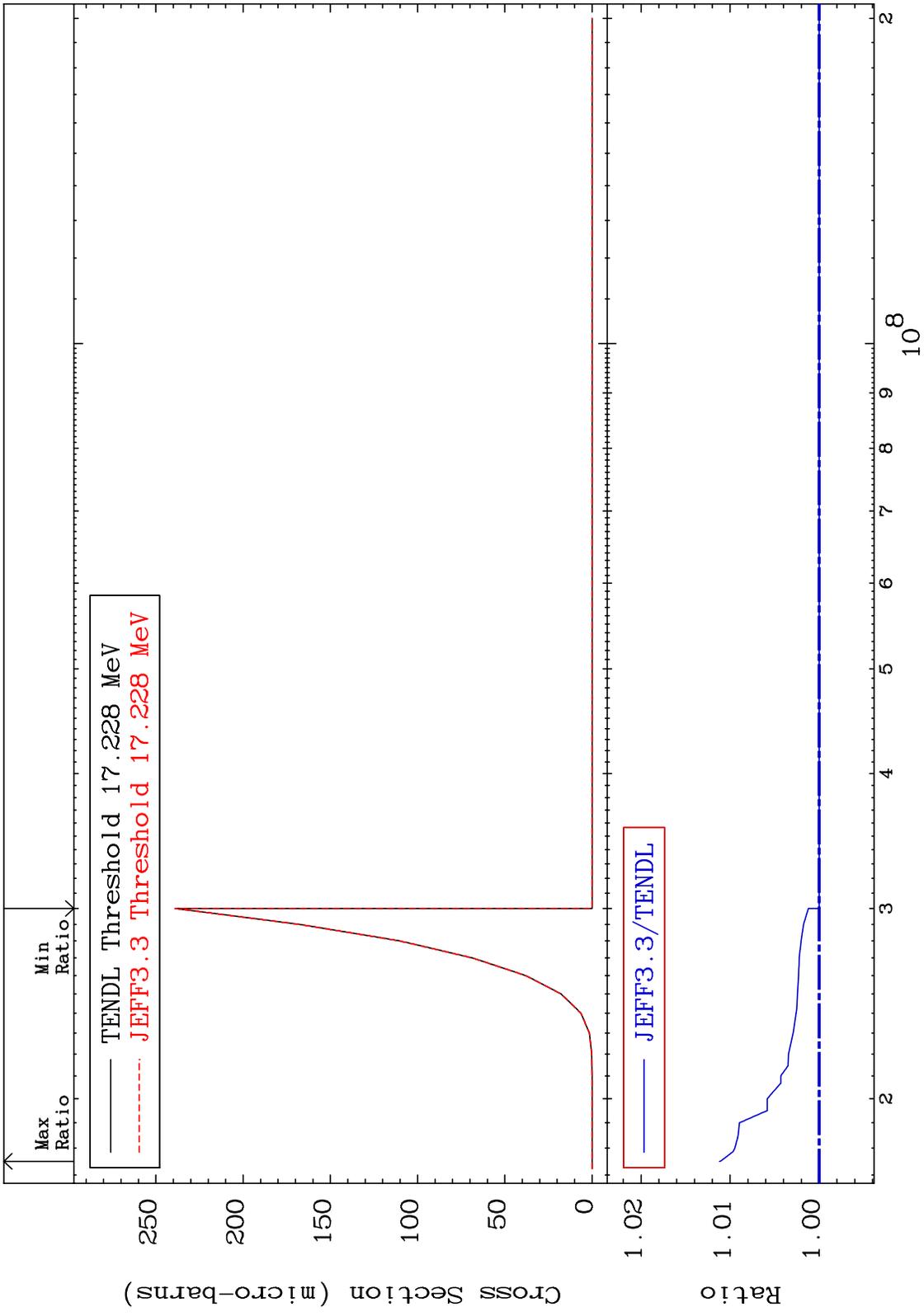


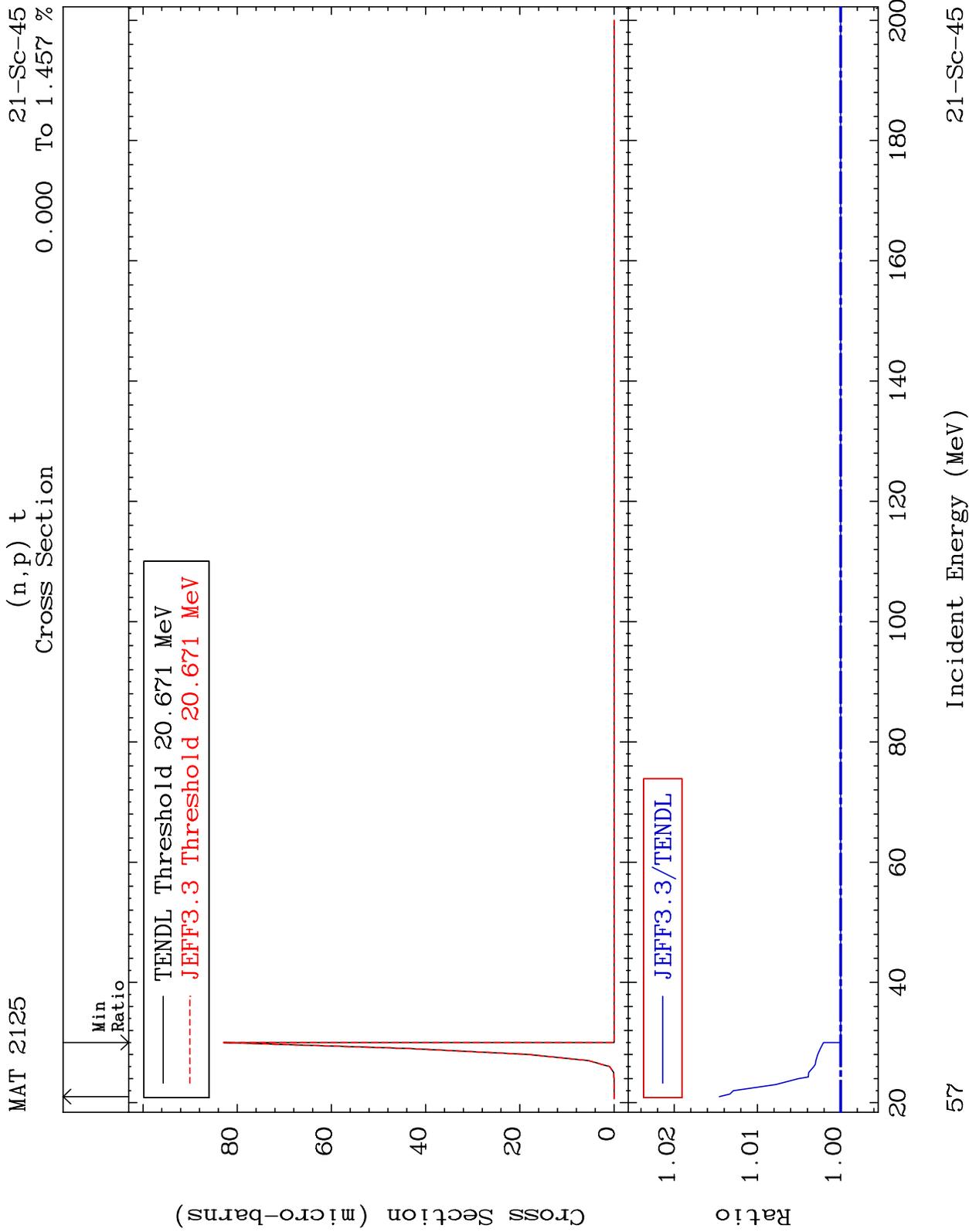
MAT 2125 $(n,p) \alpha$ 21-Sc-45
 Cross Section -2.626 To 170.1 %



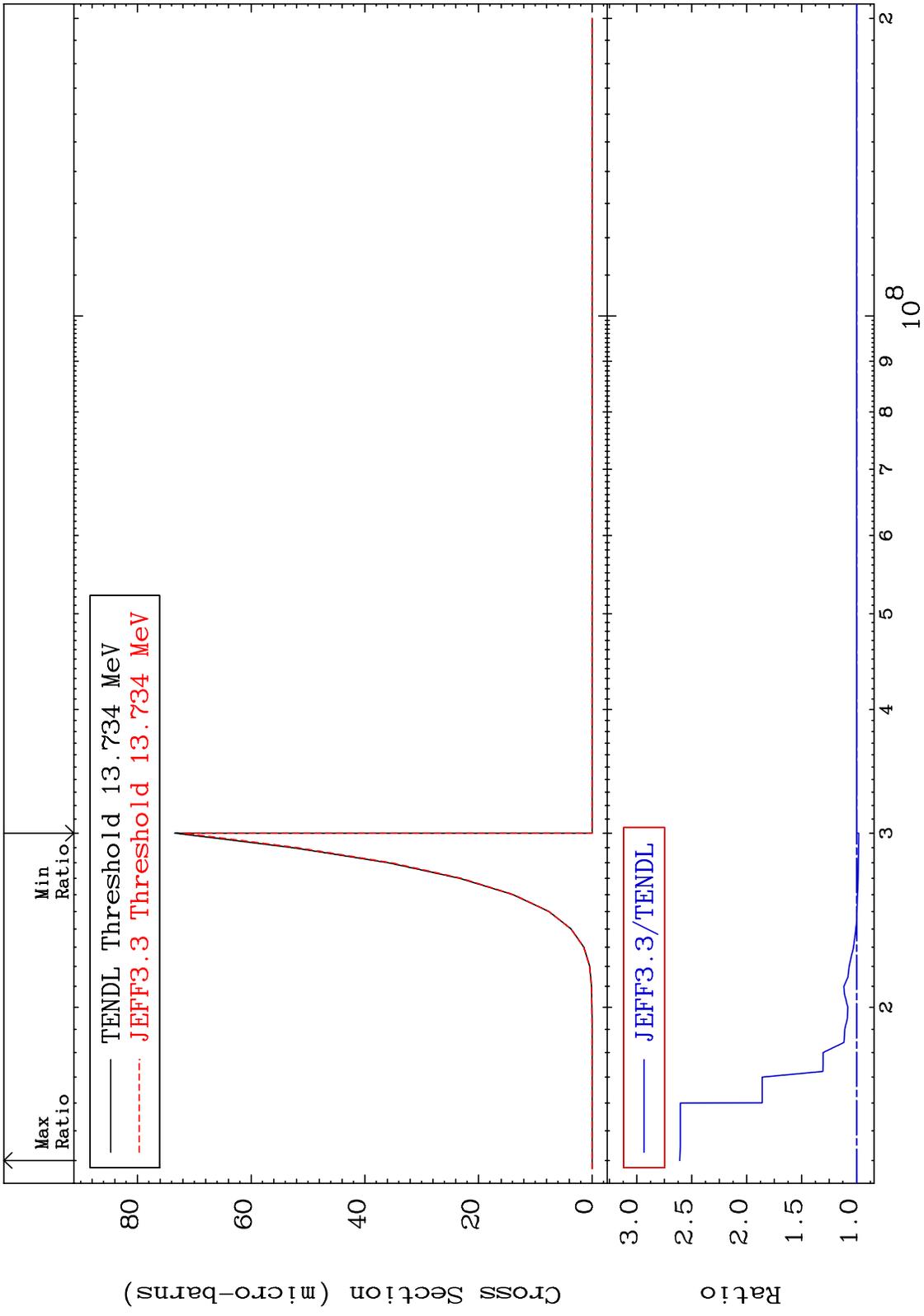
55 21-Sc-45

MAT 2125 (n,p) d 21-Sc-45
 Cross Section 0.000 To 1.120 %





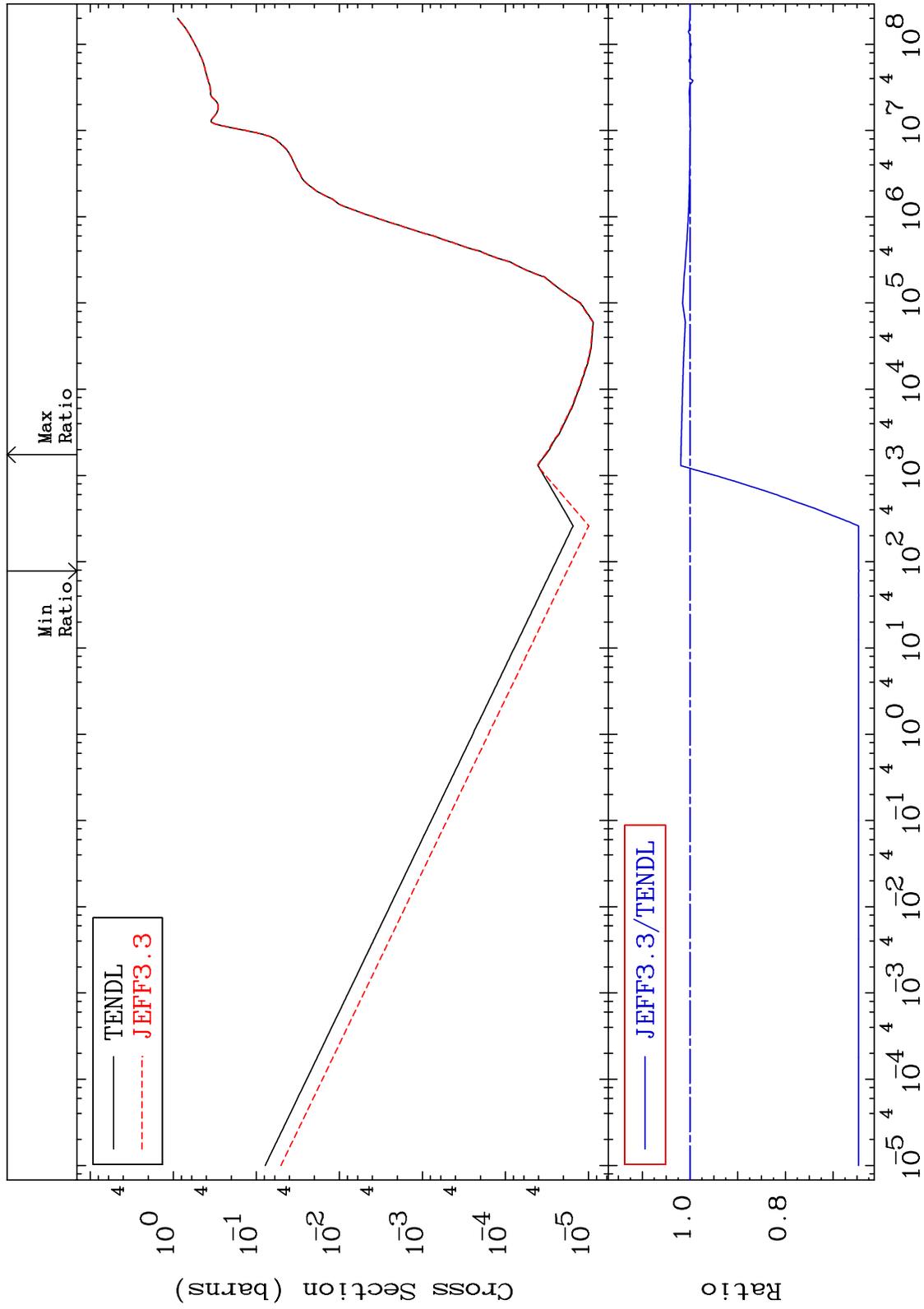
MAT 2125 (n,d) α 21-Sc-45
 Cross Section -1.991 To 161.0 %



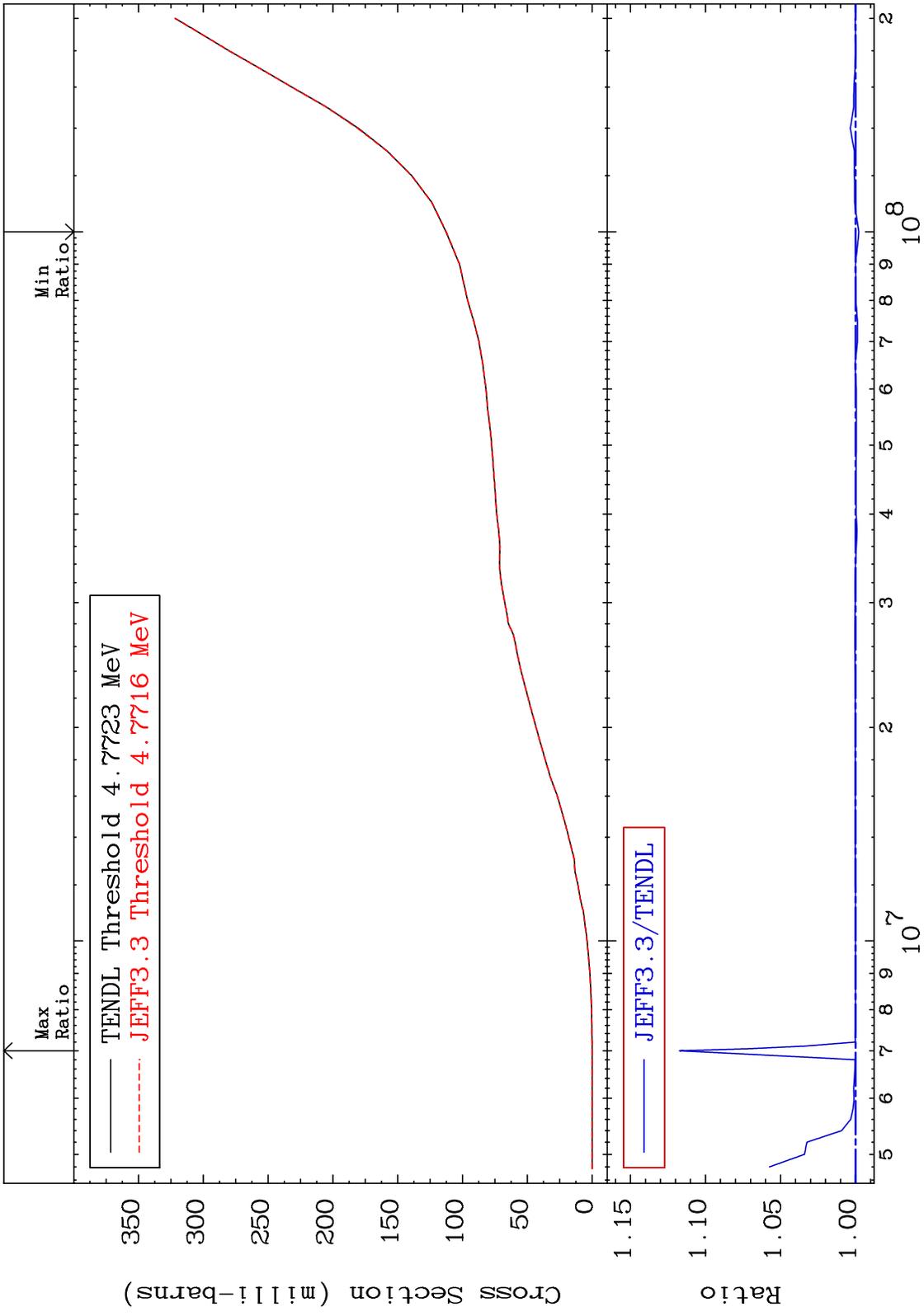
MAT 2125

Hydrogen Production
Cross Section

21-Sc-45
-35.43 To 1.964 %



MAT 2125 Deuterium Production Cross Section 21-Sc-45
-0.218 To 11.72 %

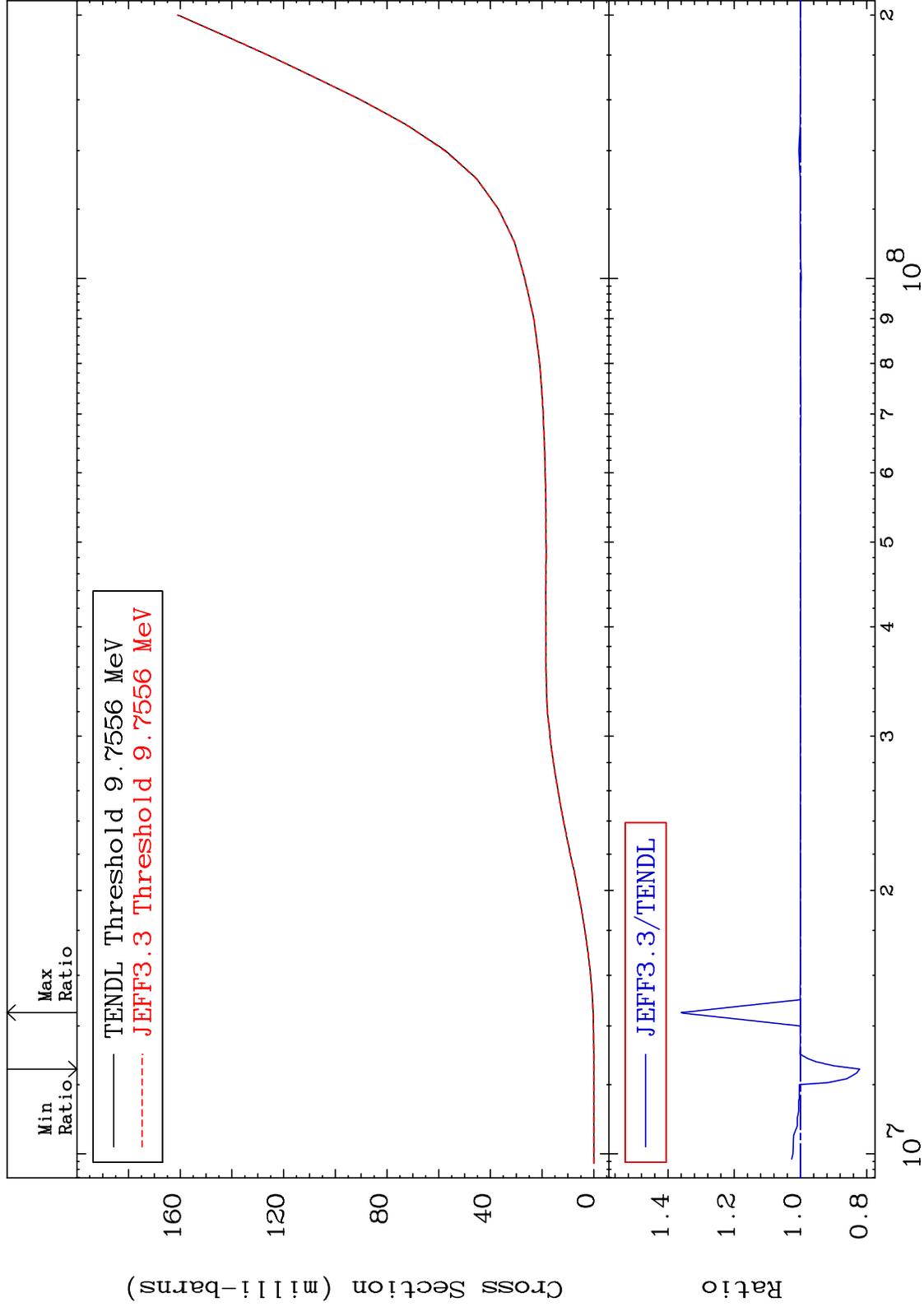


60 21-Sc-45

MAT 2125

Tritium Production
Cross Section

21-Sc-45
-17.92 To 36.01 %

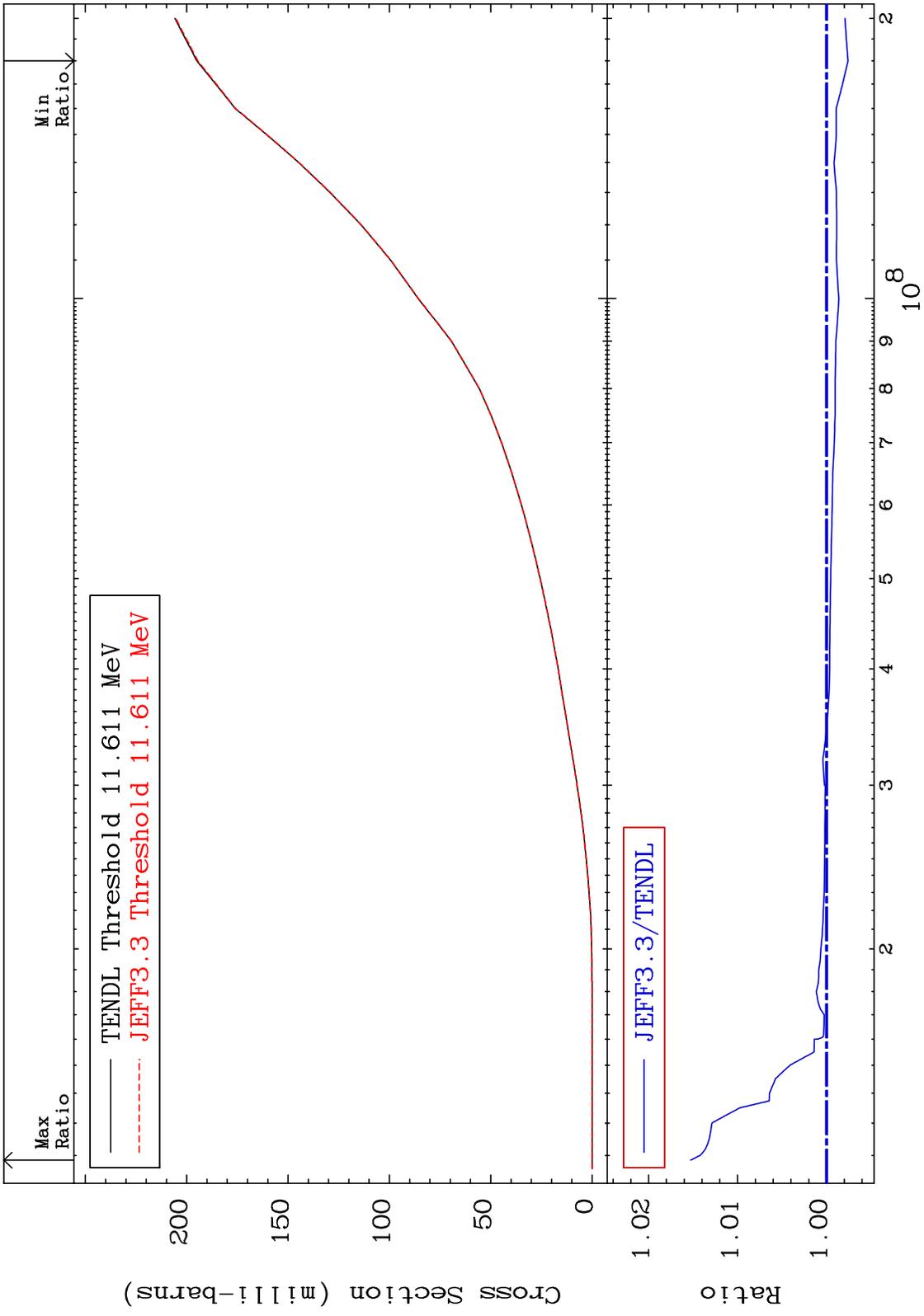


61

Incident Energy (eV)

21-Sc-45

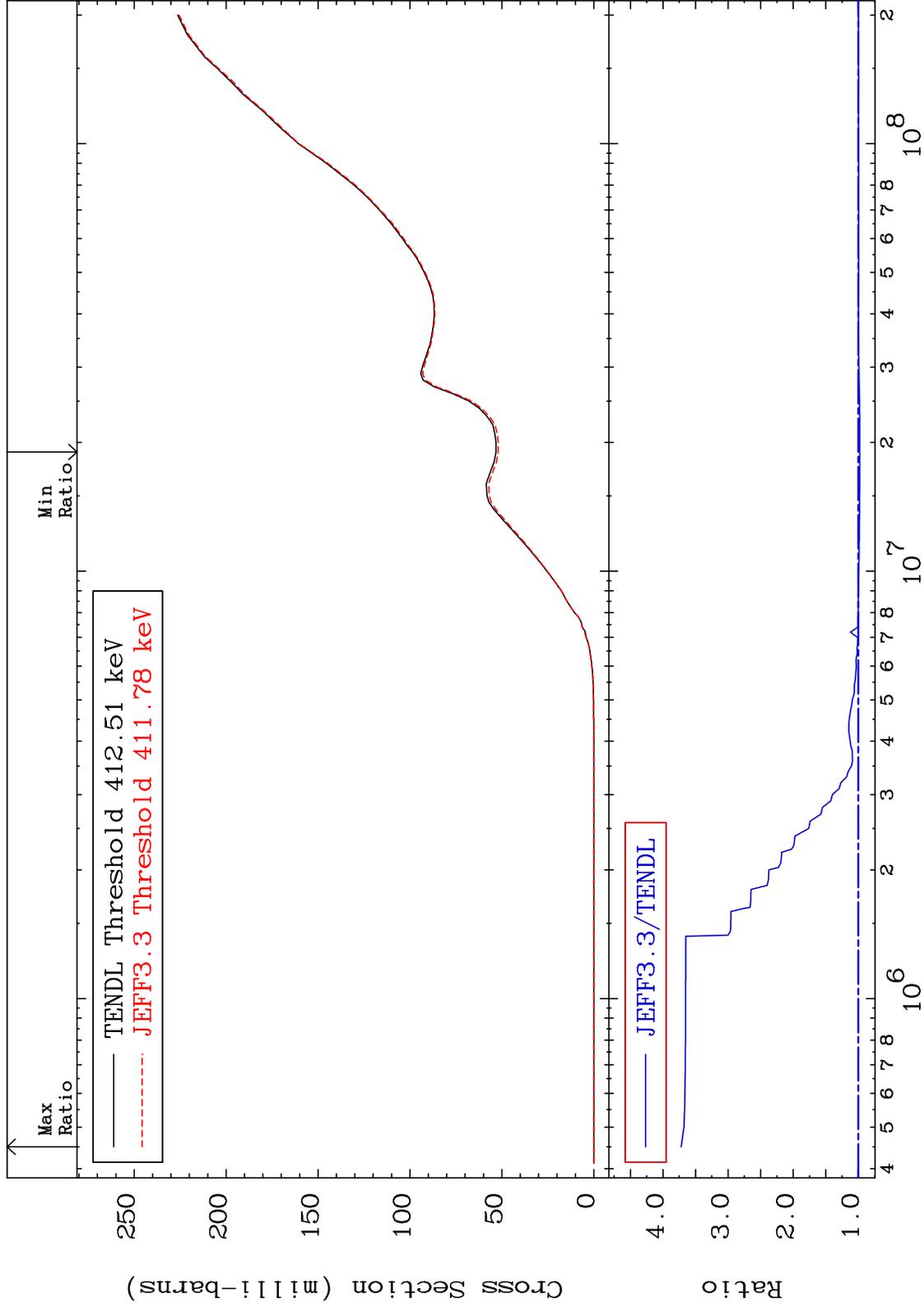
MAT 2125 He-3 Production Cross Section 21-Sc-45
 -0.242 To 1.529 %



MAT 2125

He-4 Production
Cross Section

21-Sc-45
-2.341 To 272.0 %

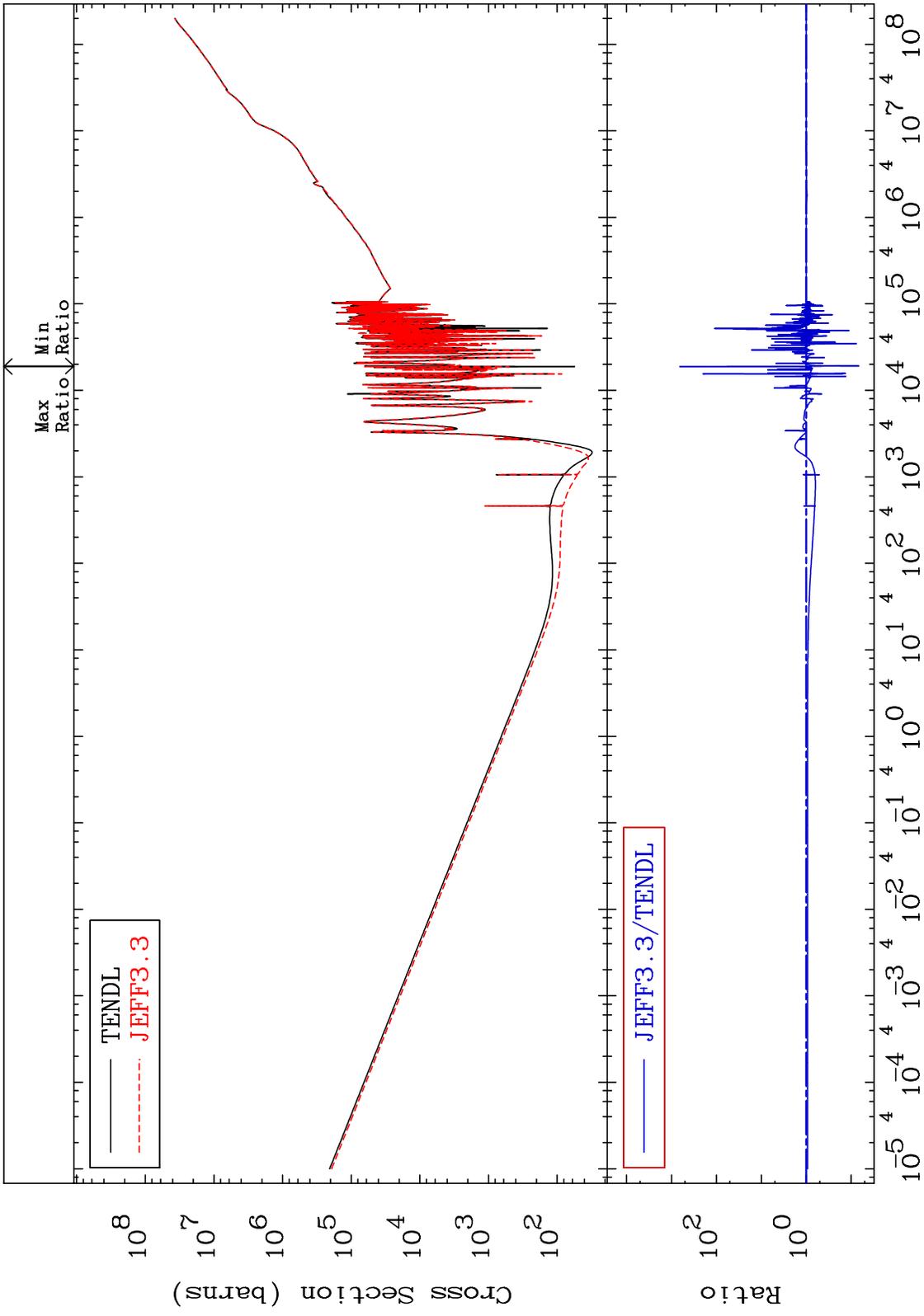


63

Incident Energy (eV)

21-Sc-45

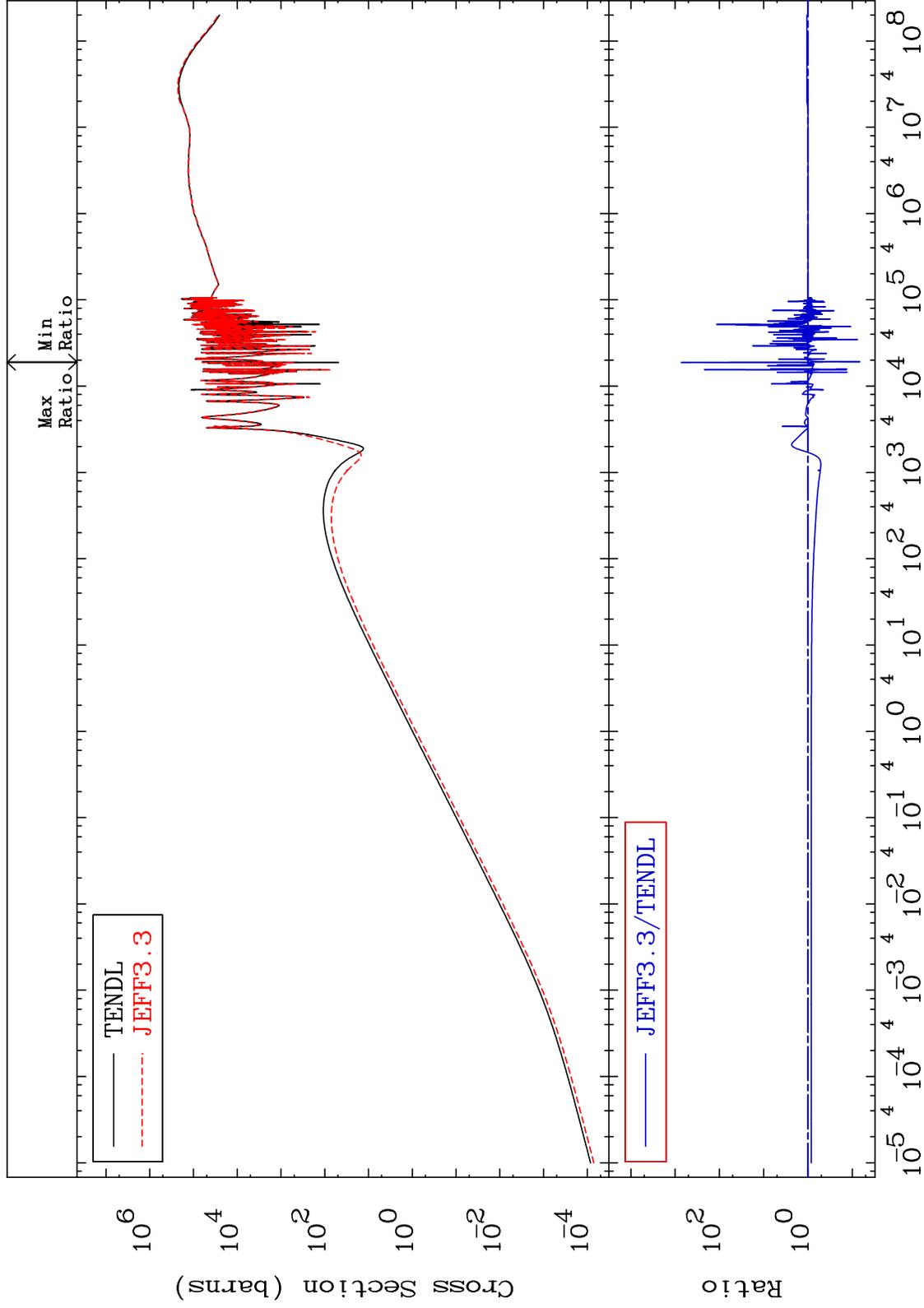
MAT 2125 Kerma total (eV-barns) 21-Sc-45
 Cross Section -93.24 To 9999. %



MAT 2125

Kerma elastic
Cross Section

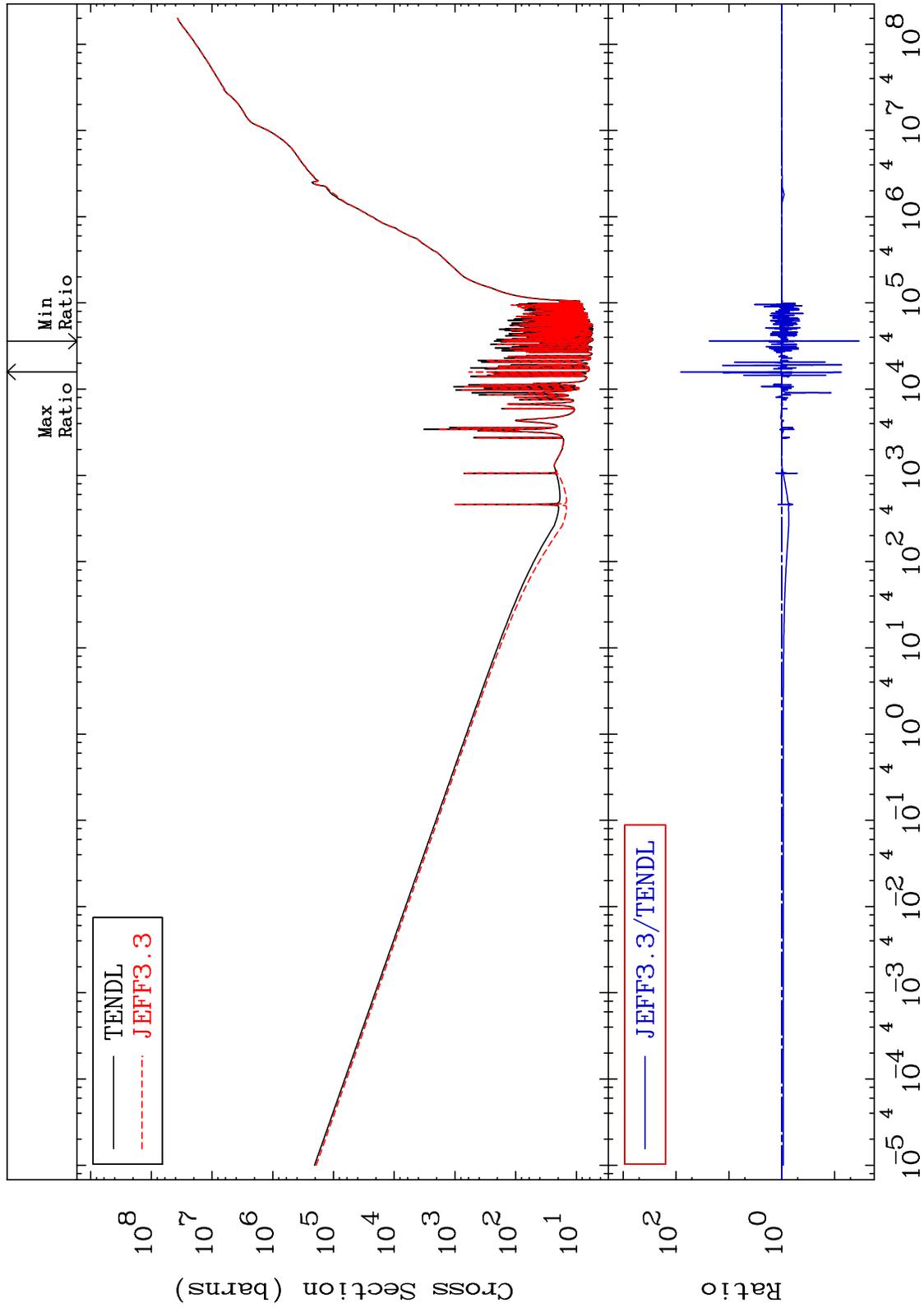
21-Sc-45
-93.25 To 9999. %



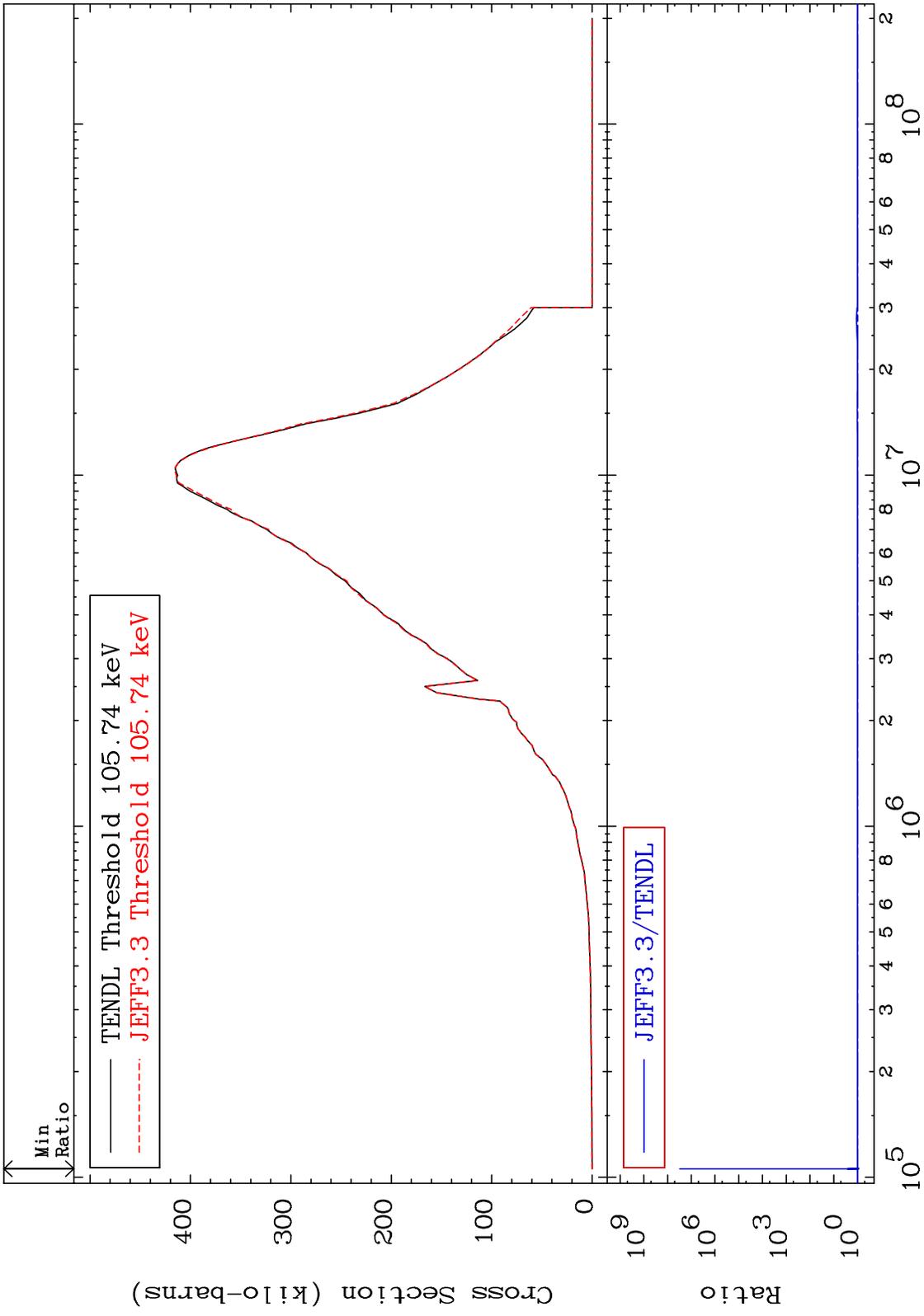
MAT 2125

Kerma non-elastic (all but mt2)
Cross Section

21-Sc-45
-96.54 To 8069. %



MAT 2125 Kerma inelastic (mt51-91) 21-Sc-45
Cross Section -12.51 To 9999. %

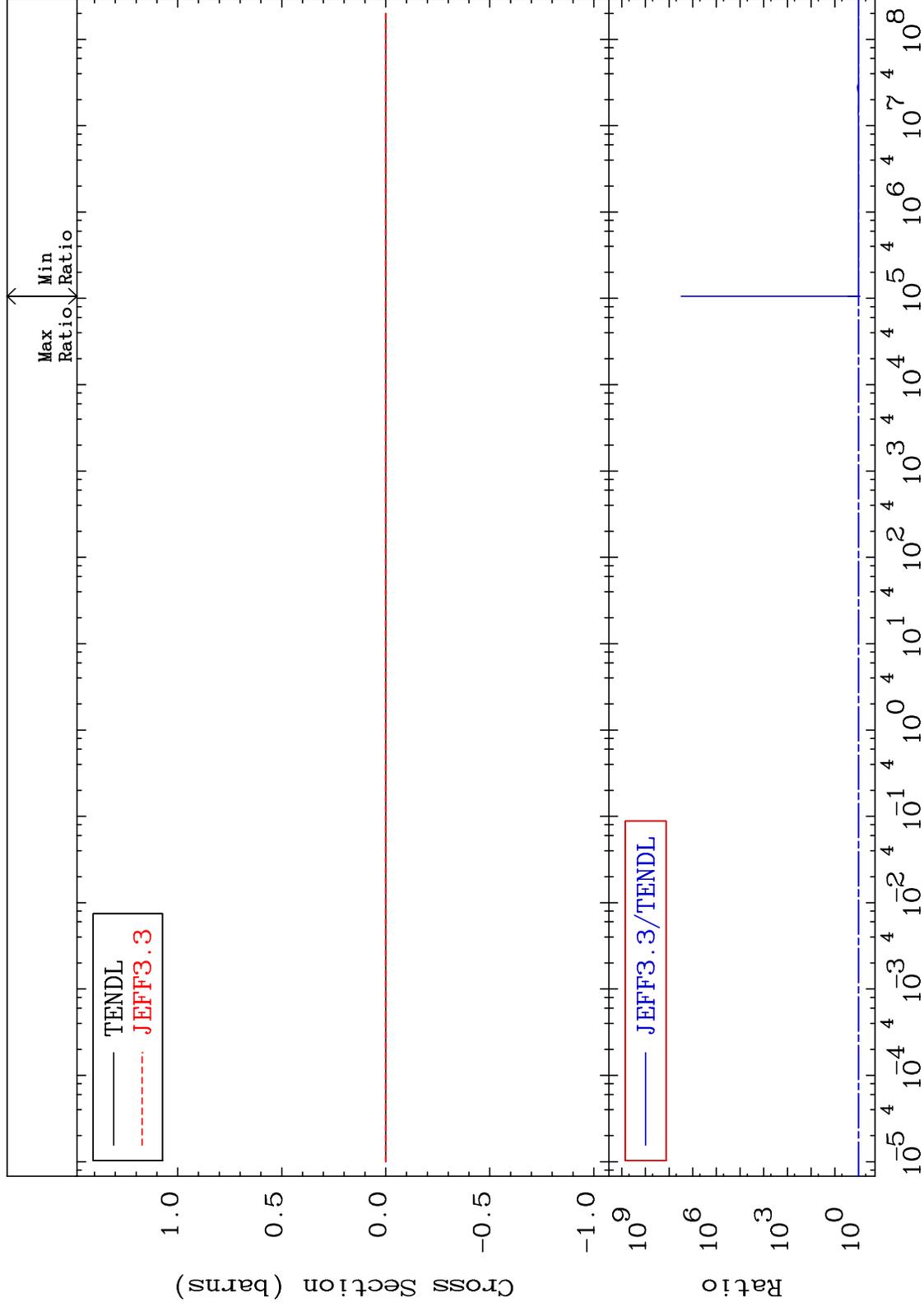


67 21-Sc-45

MAT 2125

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

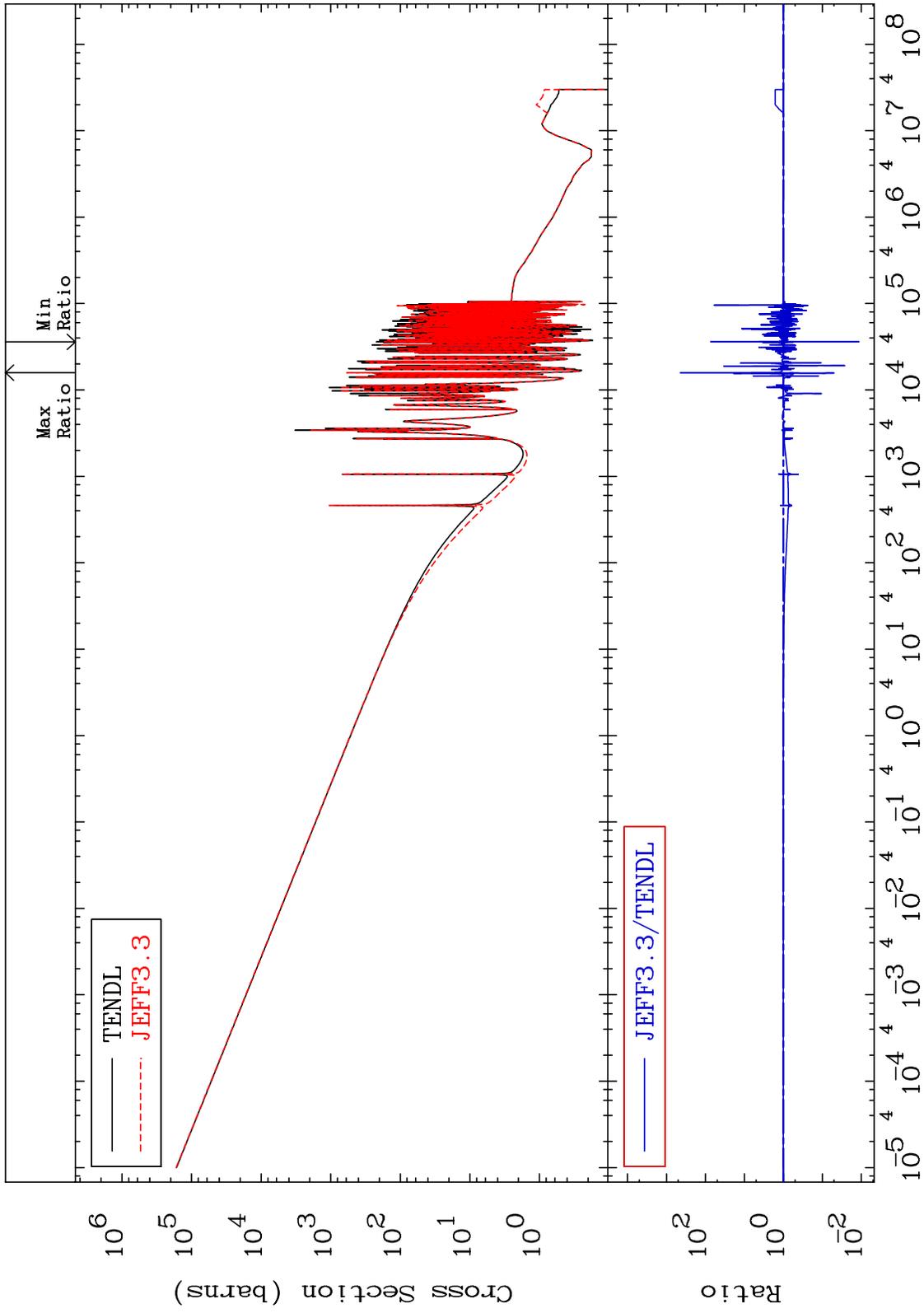
21-Sc-45
-12.51 To 9999. %



MAT 2125

Kerma capture (mt102)
Cross Section

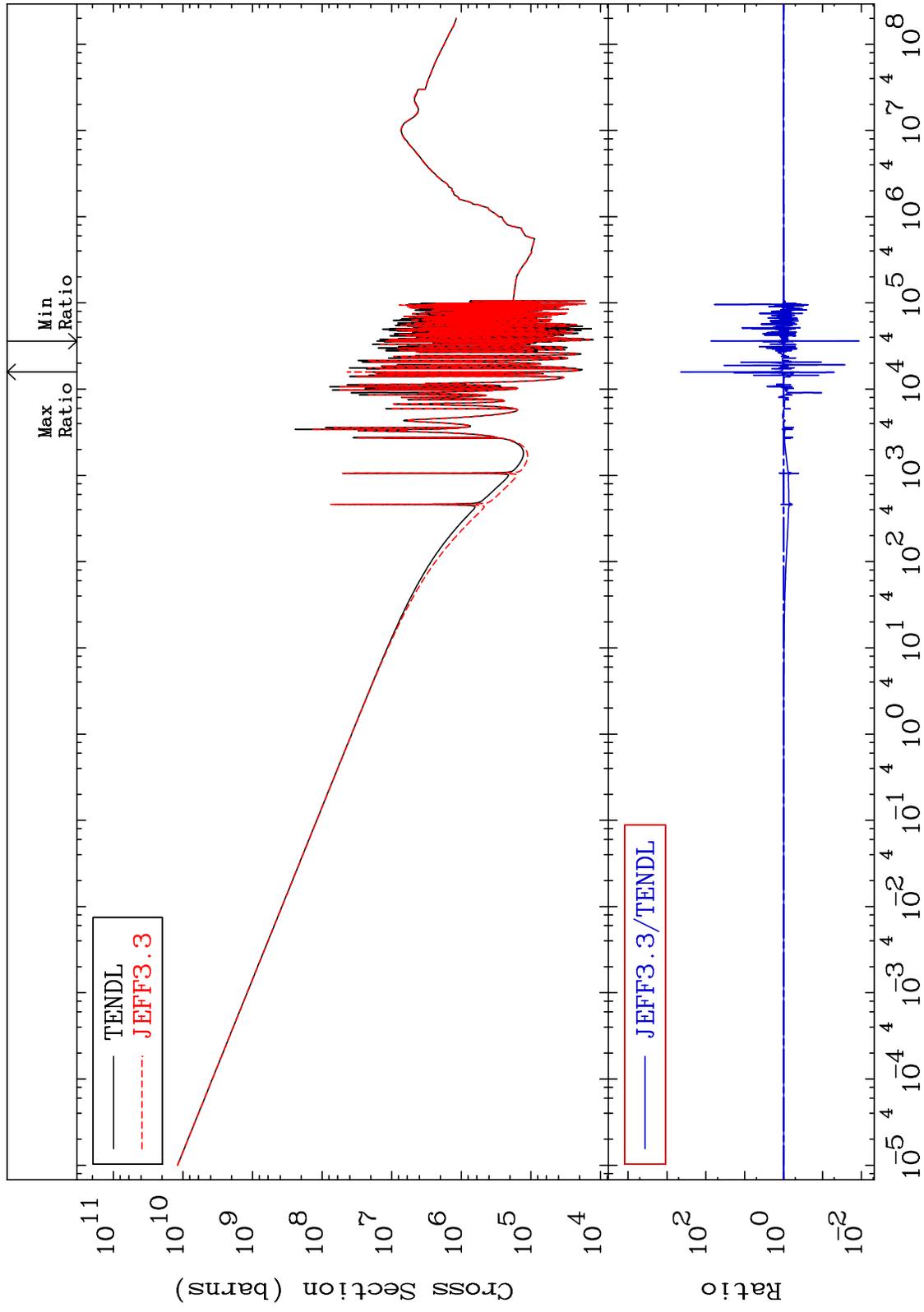
21-Sc-45
-98.85 To 9999. %



MAT 2125

Total photon (eV-barns)
Cross Section

21-Sc-45
-98.85 To 9999. %

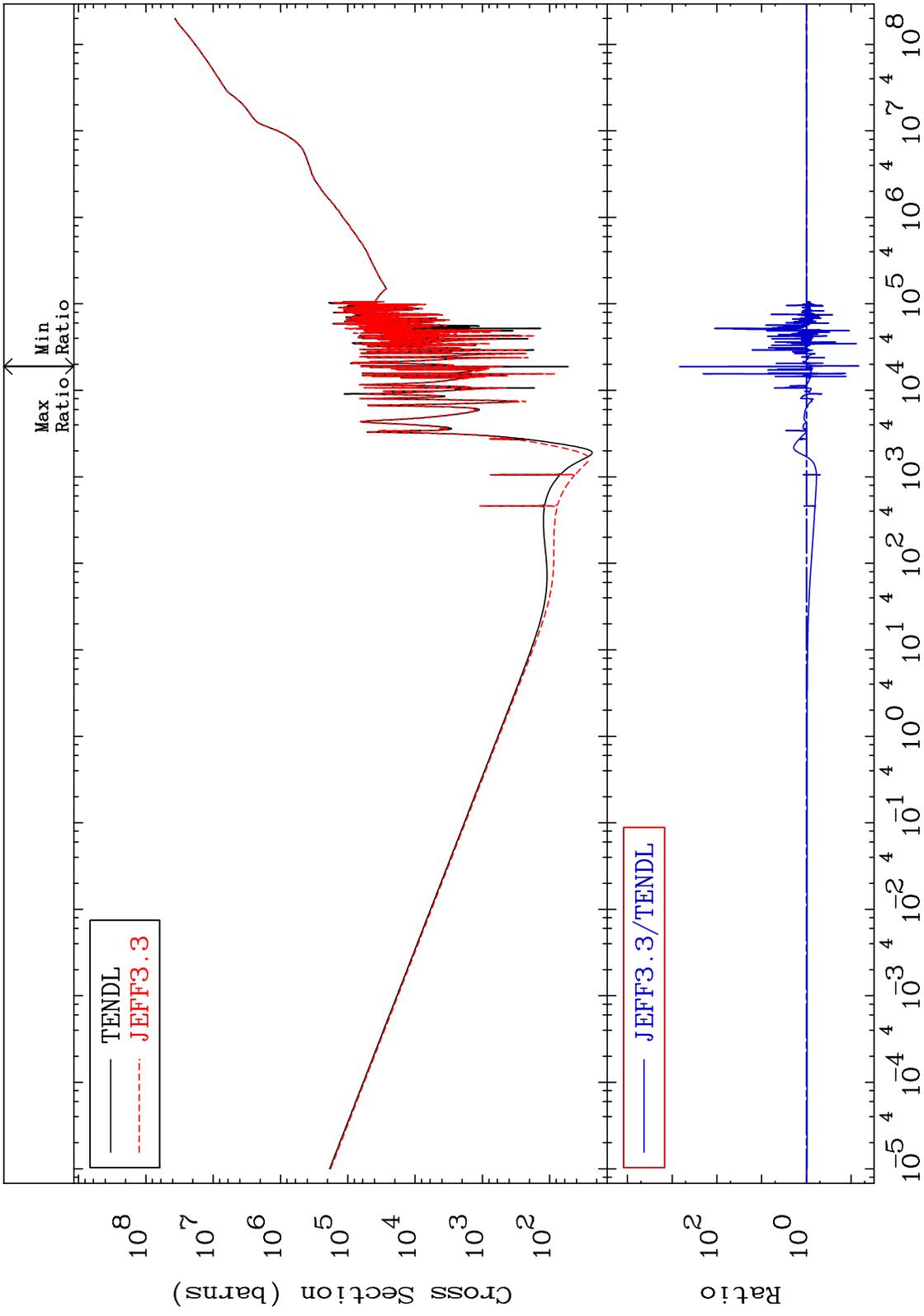


70

Incident Energy (eV)

21-Sc-45

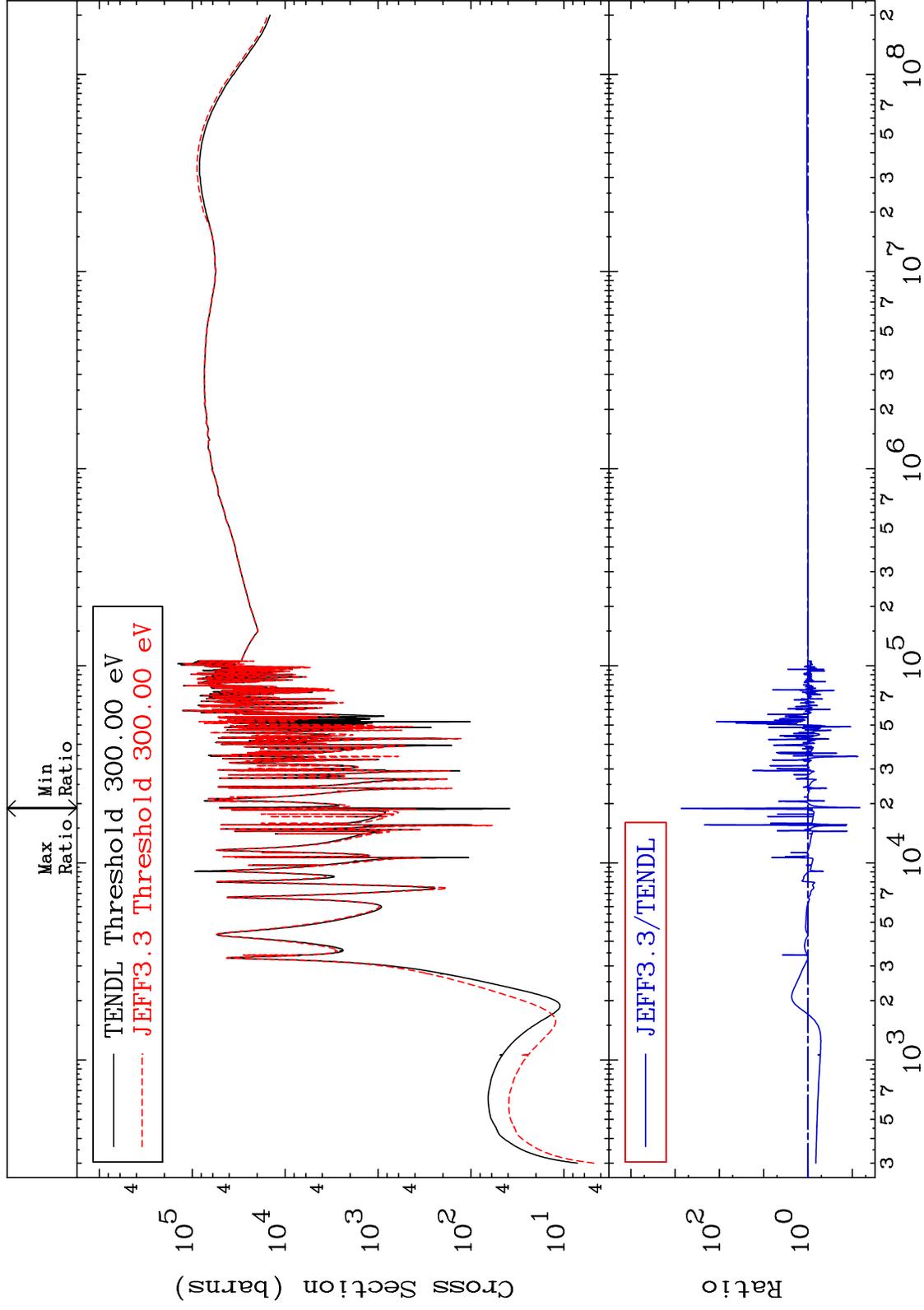
MAT 2125 Total kinematic kerma (high limit) 21-Sc-45
Cross Section -93.25 To 9999. %



MAT 2125

Dpa elastic (mt2)
Cross Section

21-Sc-45
-93.25 To 9999. %

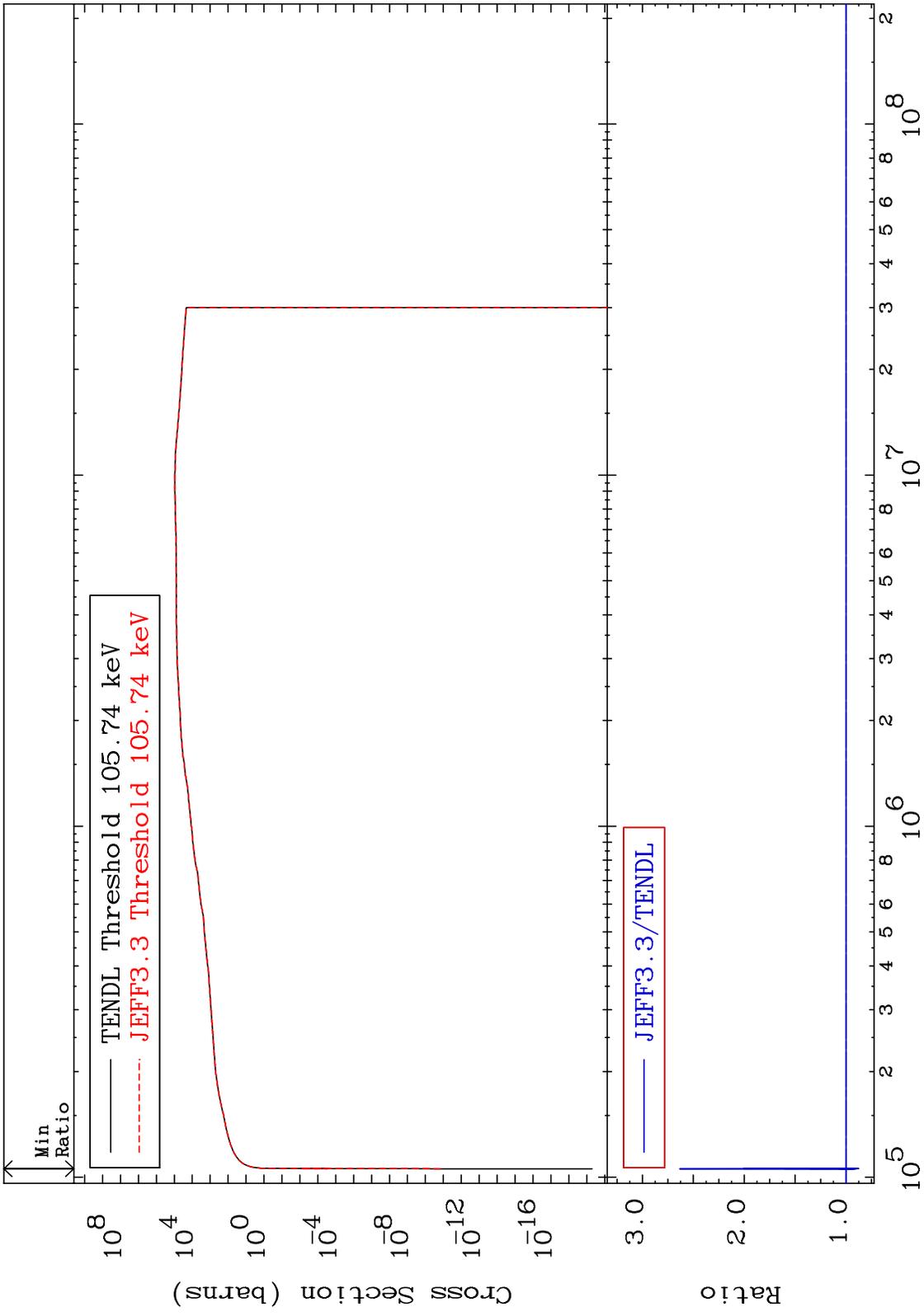


73

Incident Energy (eV)

21-Sc-45

MAT 2125 Dpa inelastic (mt51-91) 21-Sc-45
 Cross Section -12.51 To 163.4 %

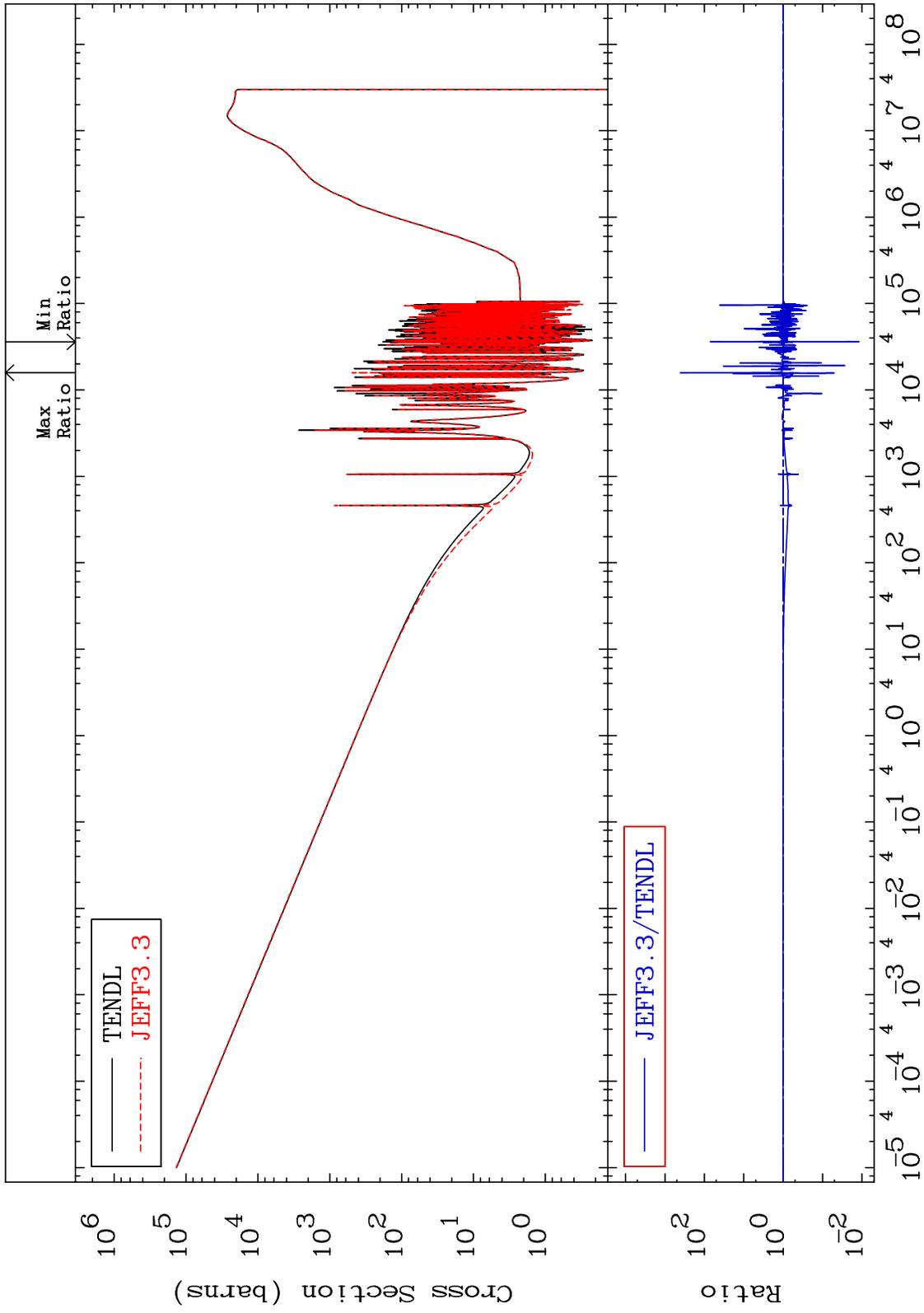


74 Incident Energy (eV) 21-Sc-45

MAT 2125

Dpa disappearance (mt102 -120)
Cross Section

21-Sc-45
-98.80 To 9999. %



75

Incident Energy (eV)

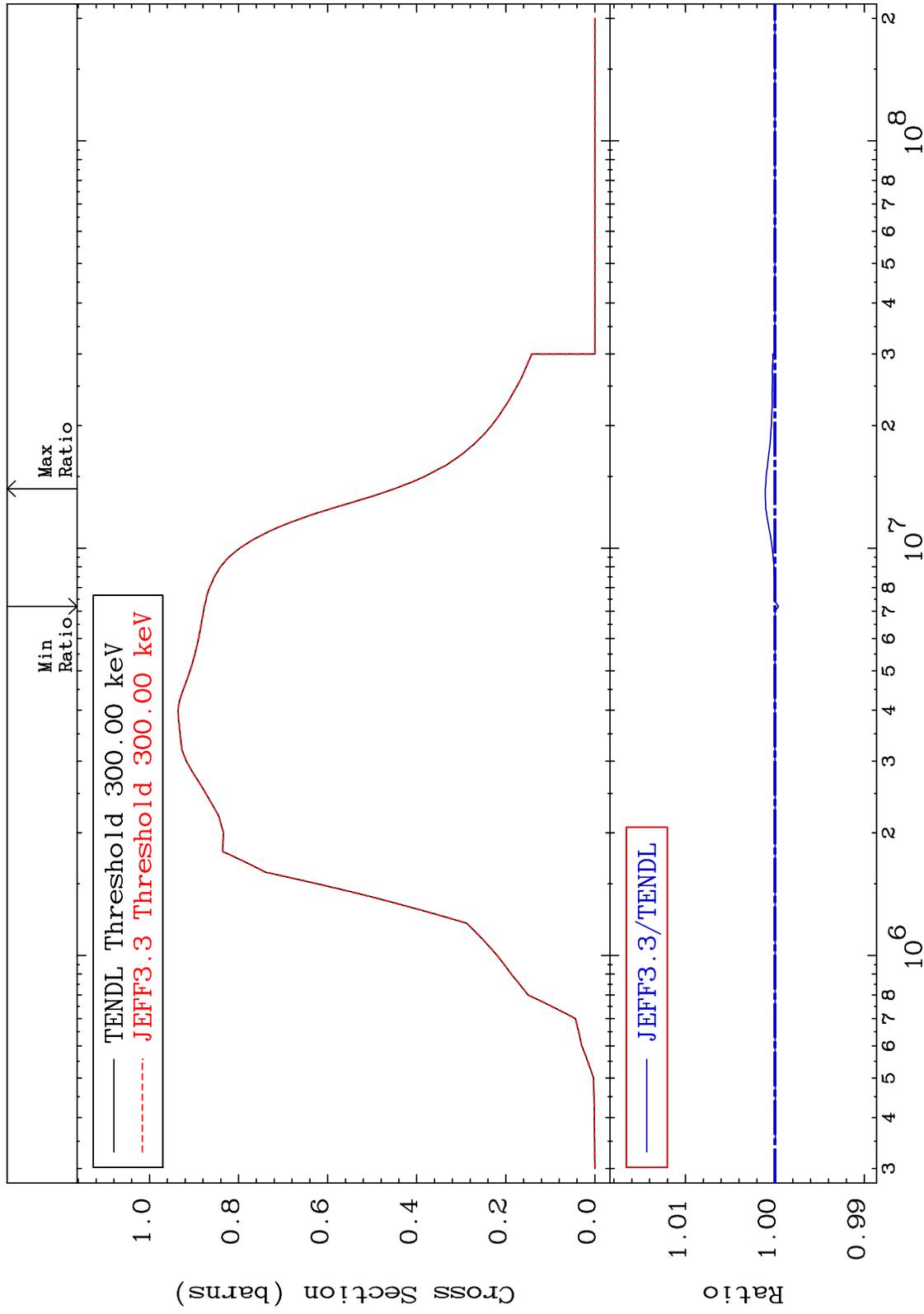
21-Sc-45

MAT 2125

21-Sc-45

Inelastic:21-Sc-45g

Radionuclide Production Cross Section -0.041 To 0.108 %



76

Incident Energy (eV)

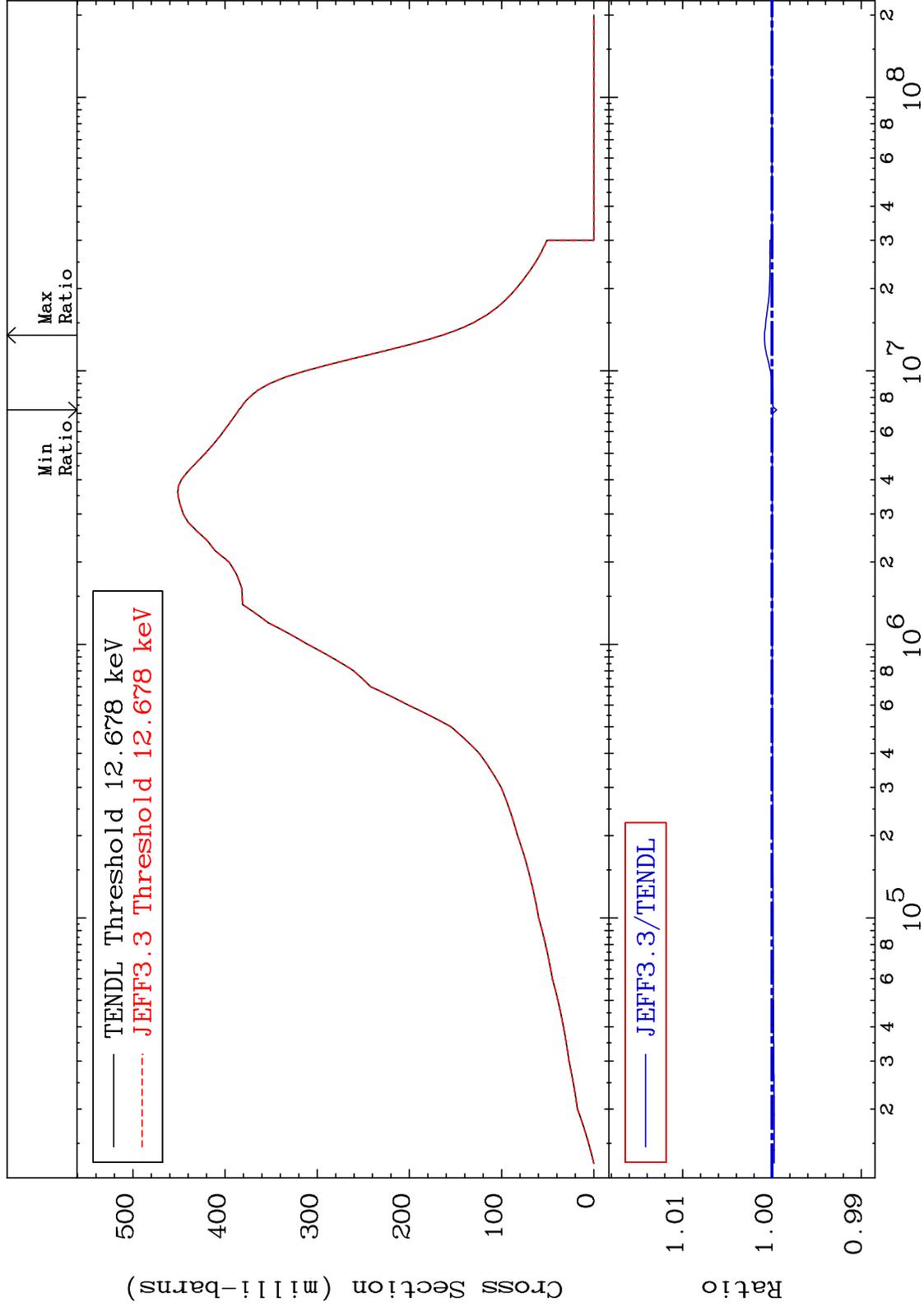
21-Sc-45

MAT 2125

Inelastic:21-Sc-45m1

21-Sc-45

Radionuclide Production Cross Section -0.050 To 0.083 %

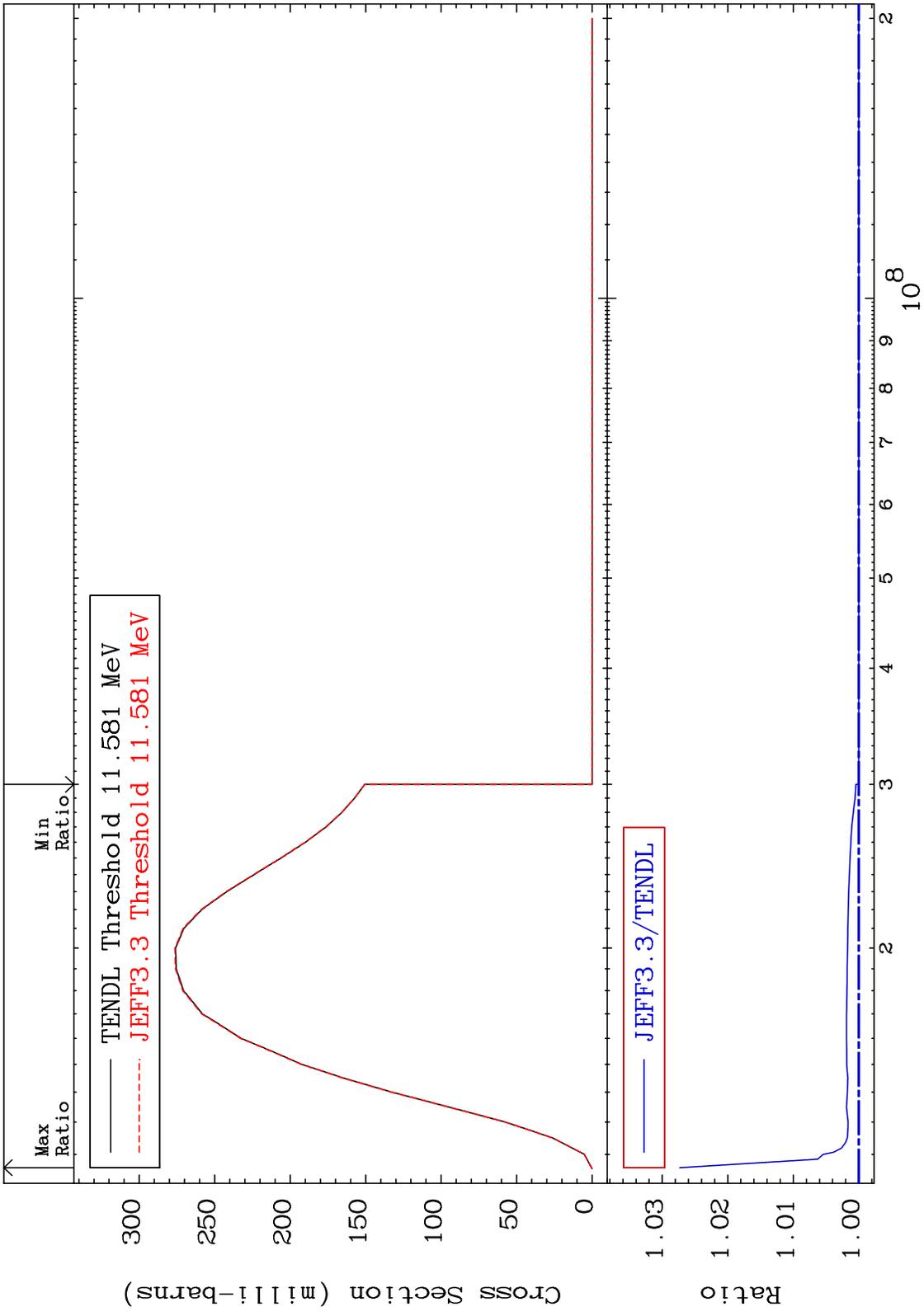


77

Incident Energy (eV)

21-Sc-45

MAT 2125 (n,2n):21-Sc-44g 21-Sc-45
 Radionuclide Production Cross Section 0.000 To 2.733 %

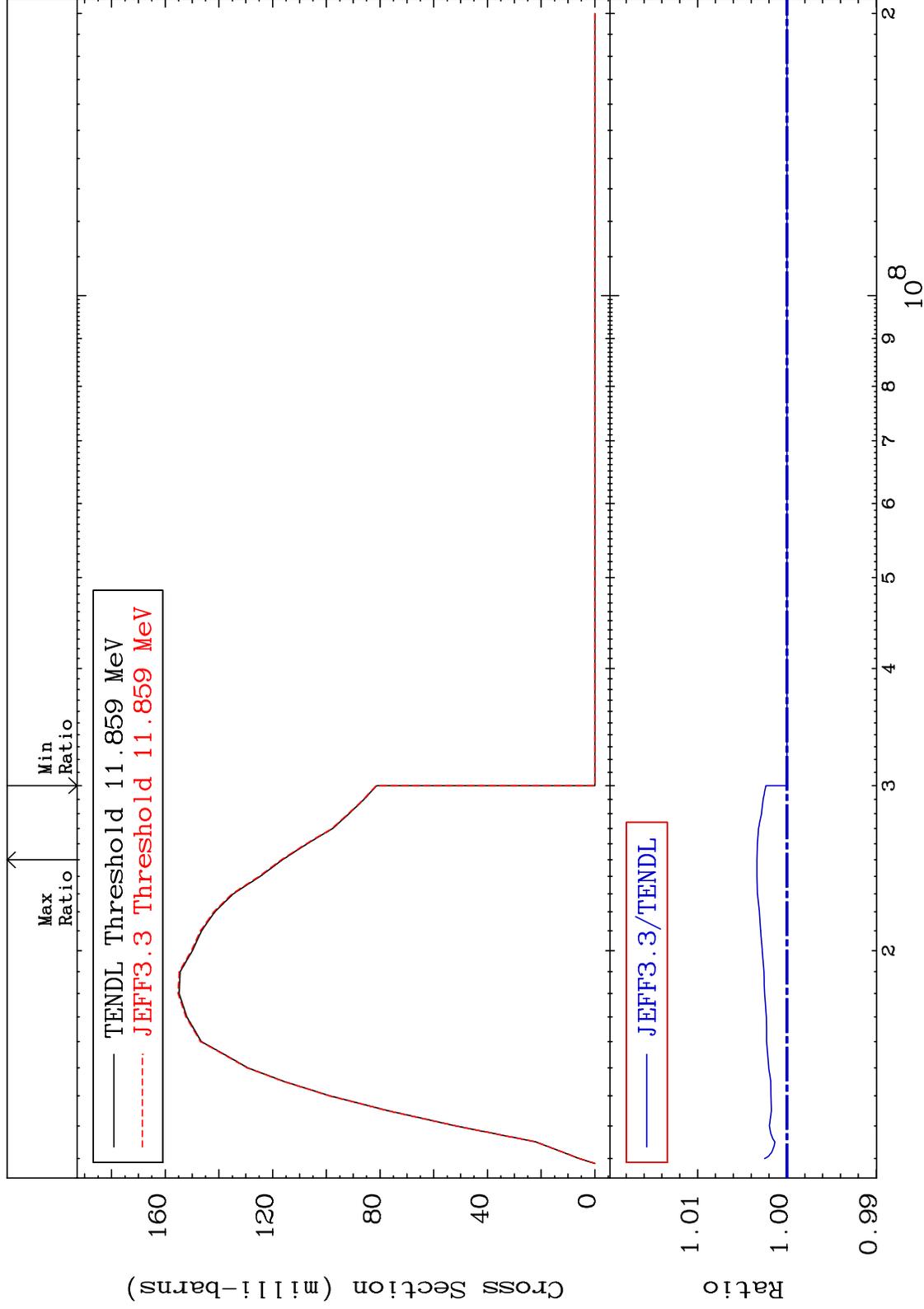


MAT 2125

(n,2n):21-Sc-44m4

21-Sc-45

Radionuclide Production Cross Section 0.000 To 0.336 %

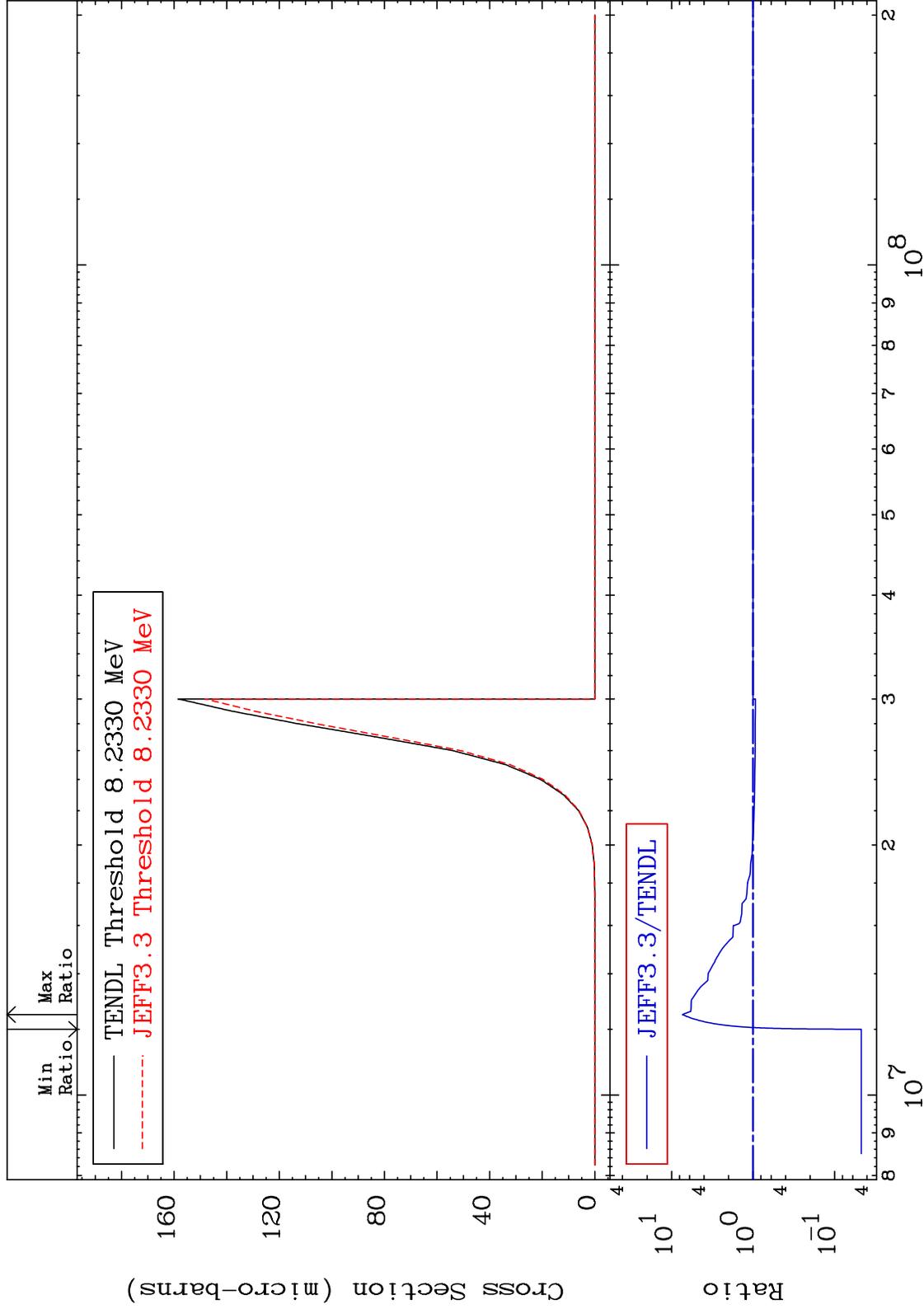


MAT 2125

(n,2 α): 17-Cl-38g

21-Sc-45

Radionuclide Production Cross Section -95.31 To 636.0 %



80

Incident Energy (eV)

21-Sc-45

MAT 2125

(n,2α):17-Cl-38m1

21-Sc-45

Radionuclide Production Cross Section -11.64 To 534.5 %

