

Program Complot
(Version 2021-1)

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

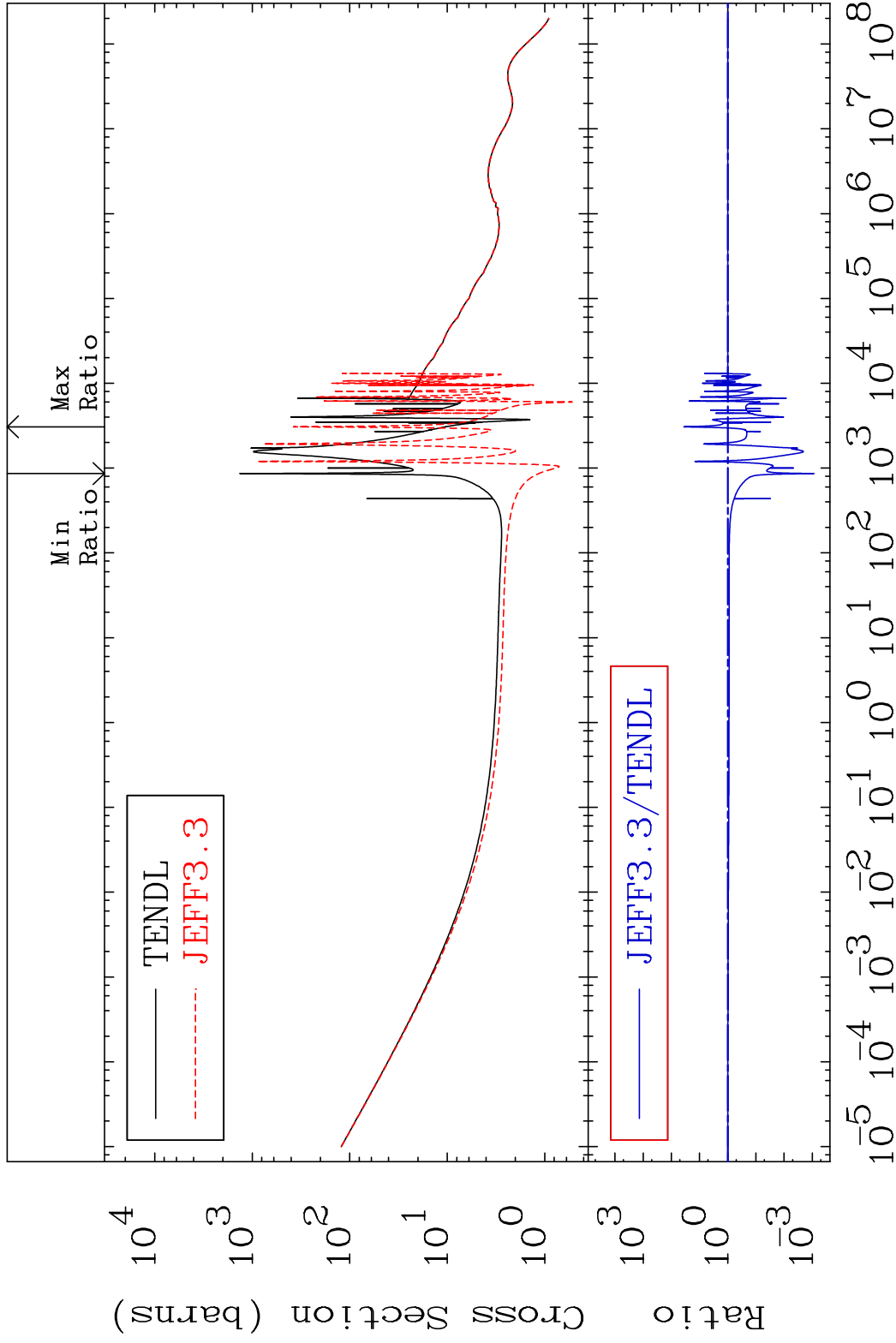
Press Mouse Button to Start

MAT 2131

Total

21-Sc-47

Cross Section -99.91 To 3556. %



1

Incident Energy (eV)

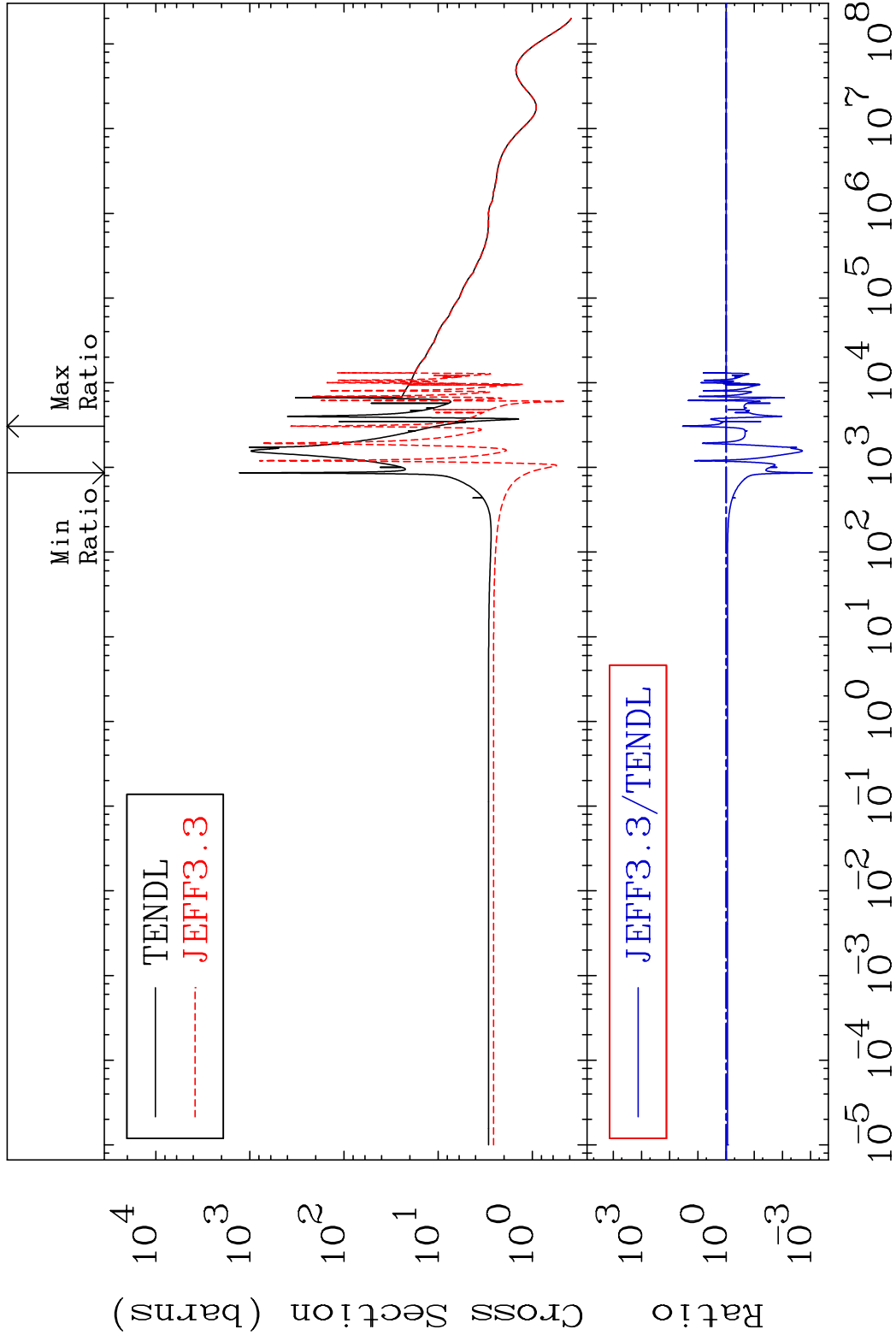
21-Sc-47

MAT 2131

Elastic

21-Sc-47

Cross Section -99.91 To 3456. %



2

Incident Energy (eV)

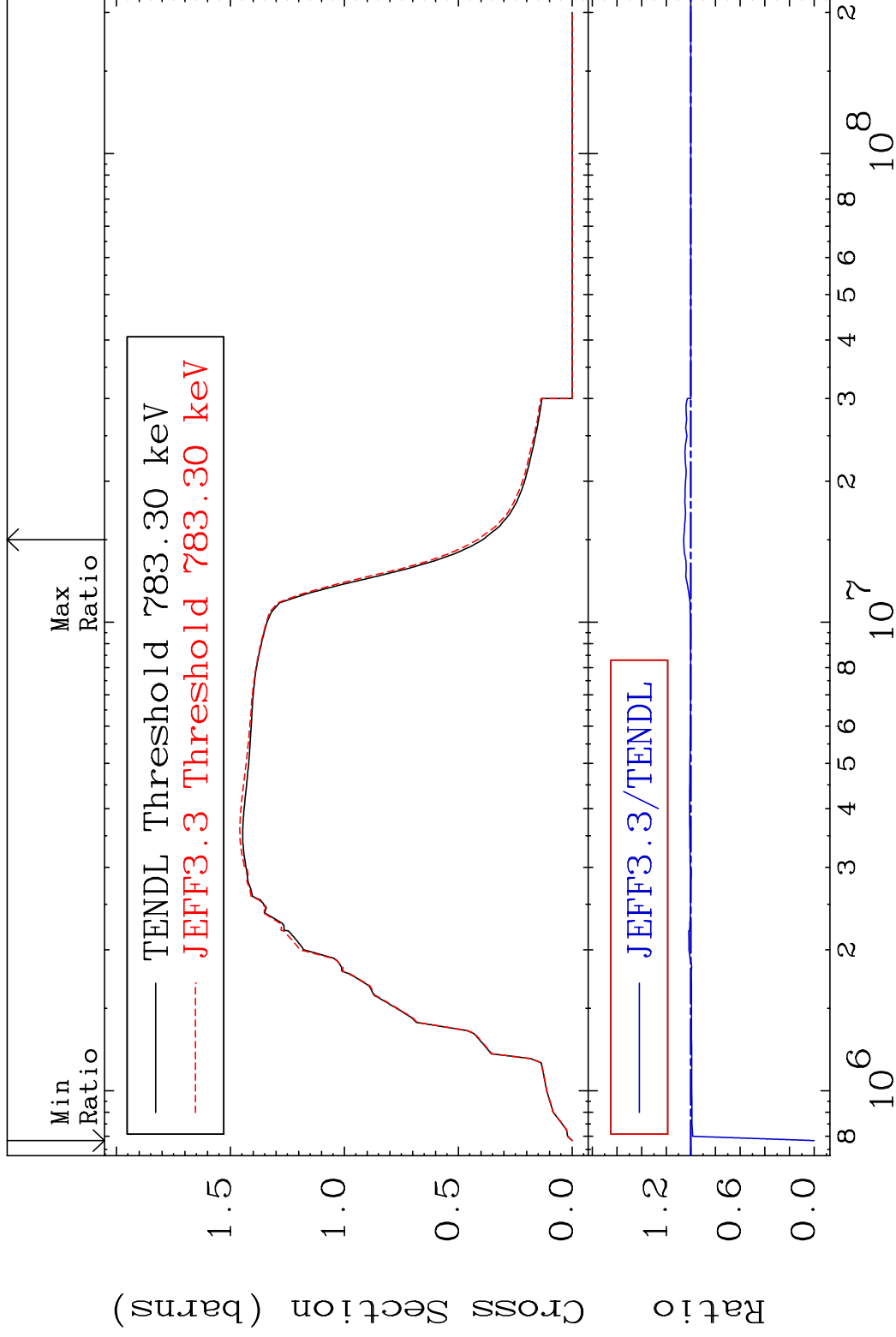
21-Sc-47

MAT 2131

Inelastic

21-Sc-47

Cross Section -100.0 To 5.848 %



3

Incident Energy (eV)

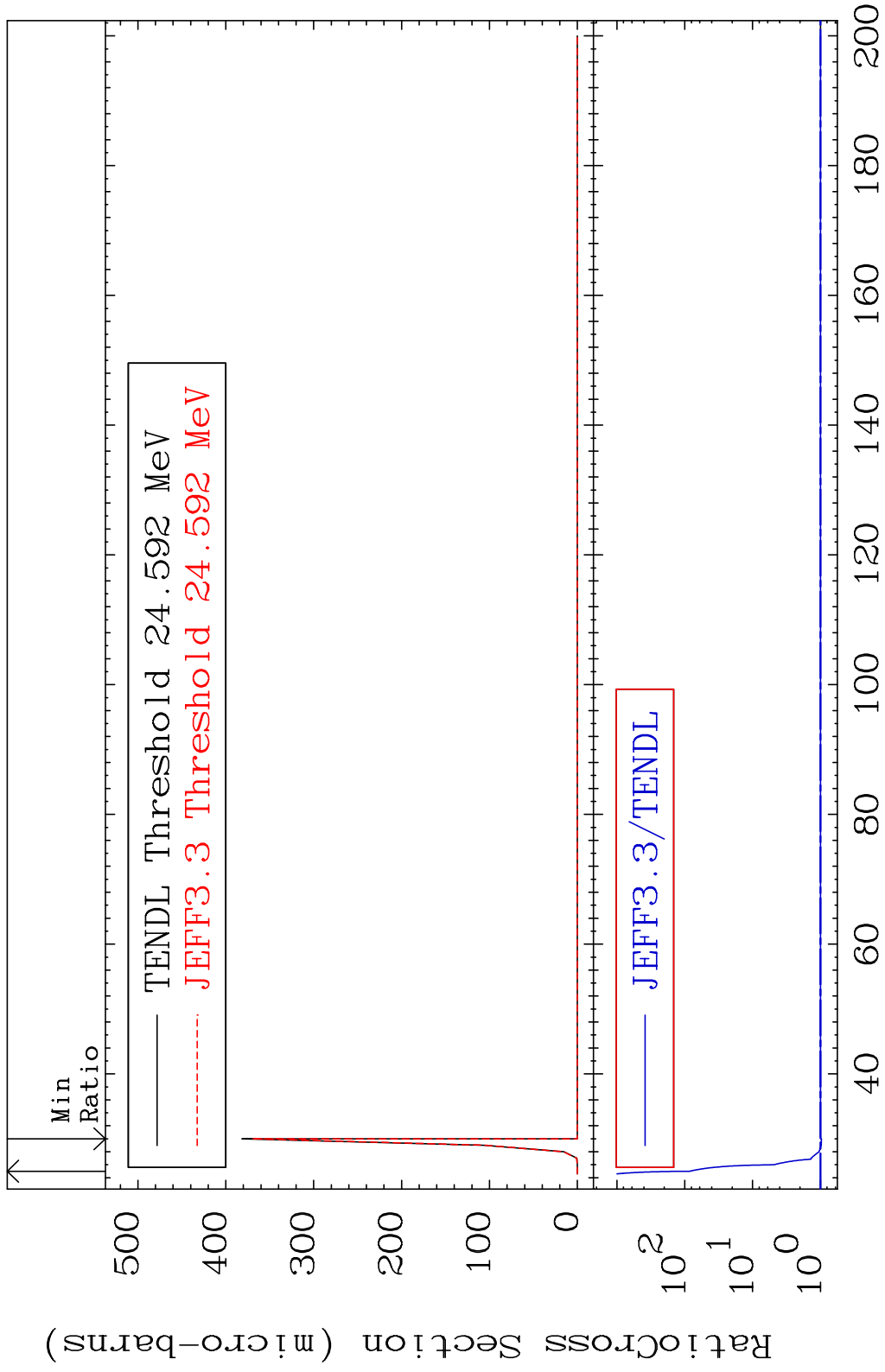
21-Sc-47

MAT 2131

(n,2n) d

21-Sc-47

Cross Section -3.039 To 8330. %

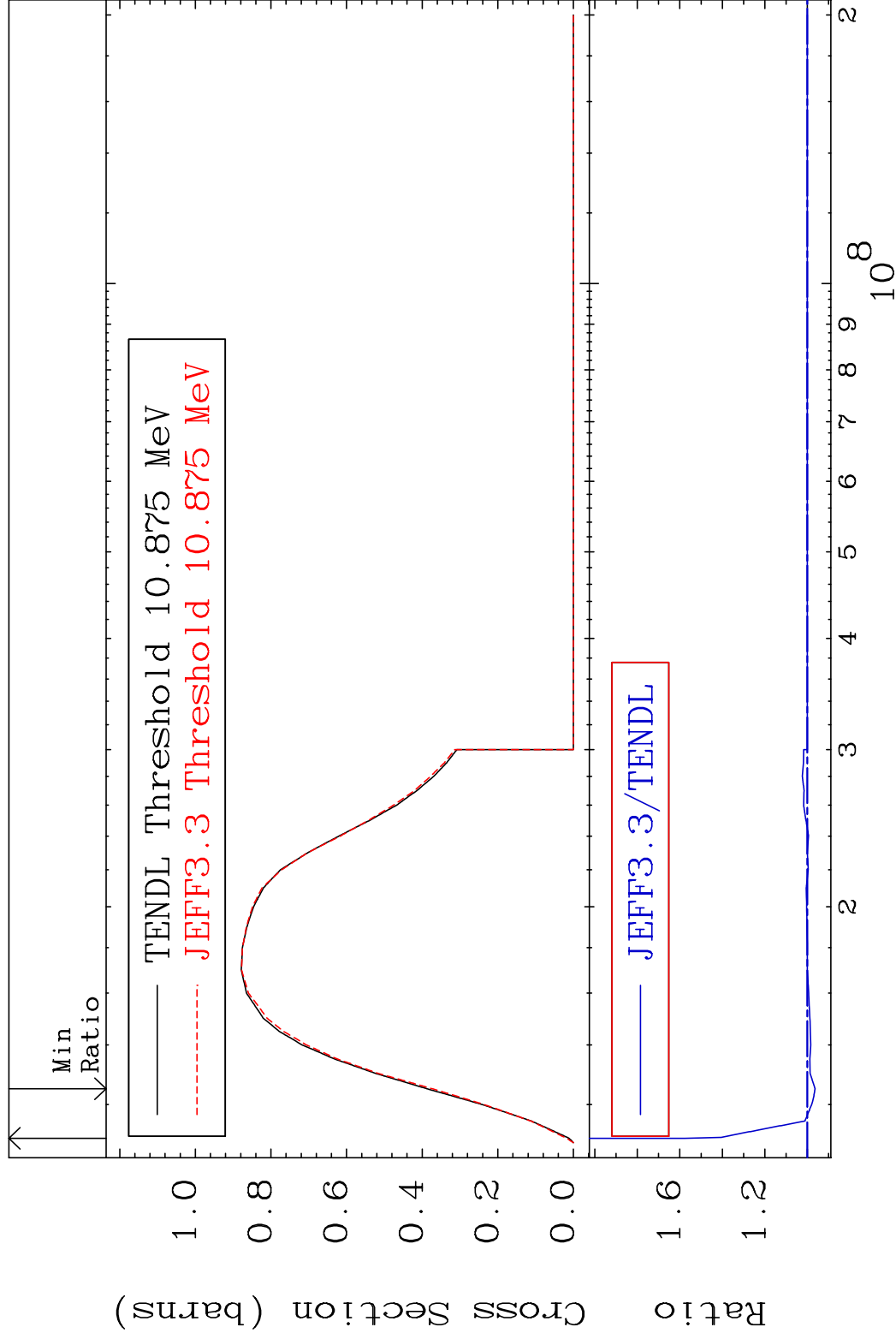


MAT 2131

(n,2n)

21-Sc-47

Cross Section -3.634 To 57.70 %

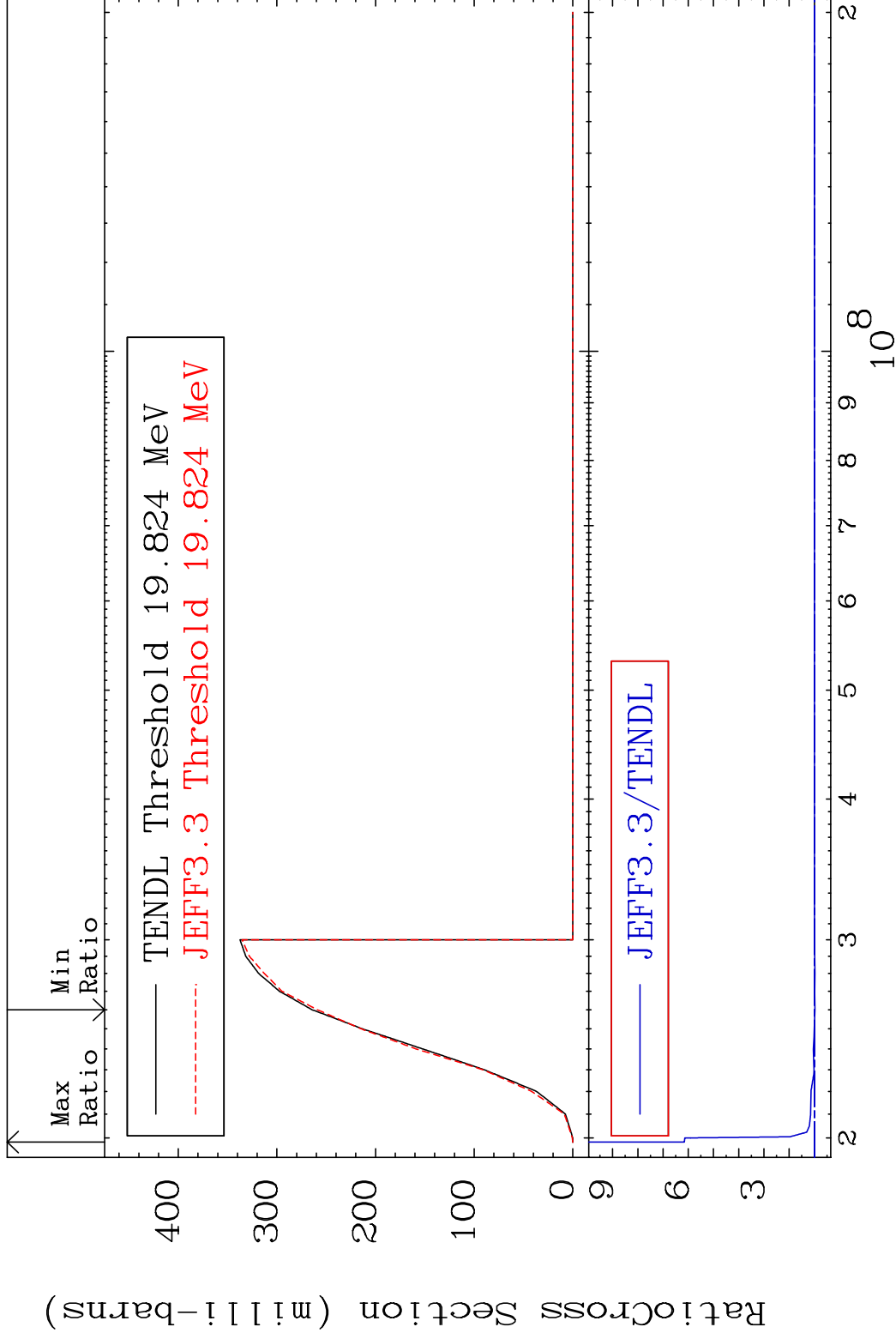


MAT 2131

(n,3n)

21-Sc-47

Cross Section -1.990 To 515.7 %



6

Incident Energy (eV)

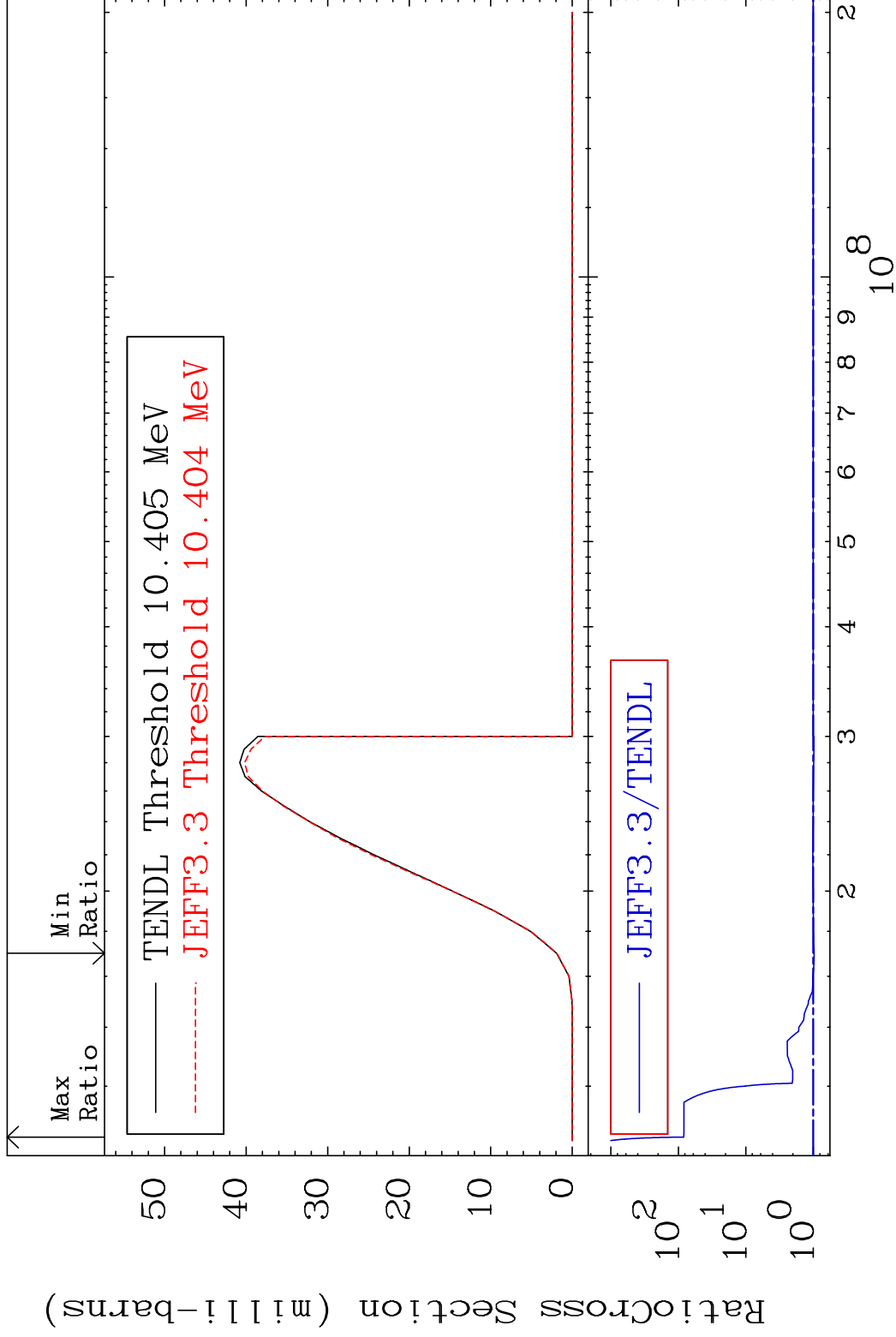
21-Sc-47

MAT 2131

(n, n') α

21-Sc-47

Cross Section -2.905 To 8241. %



7

Incident Energy (eV)

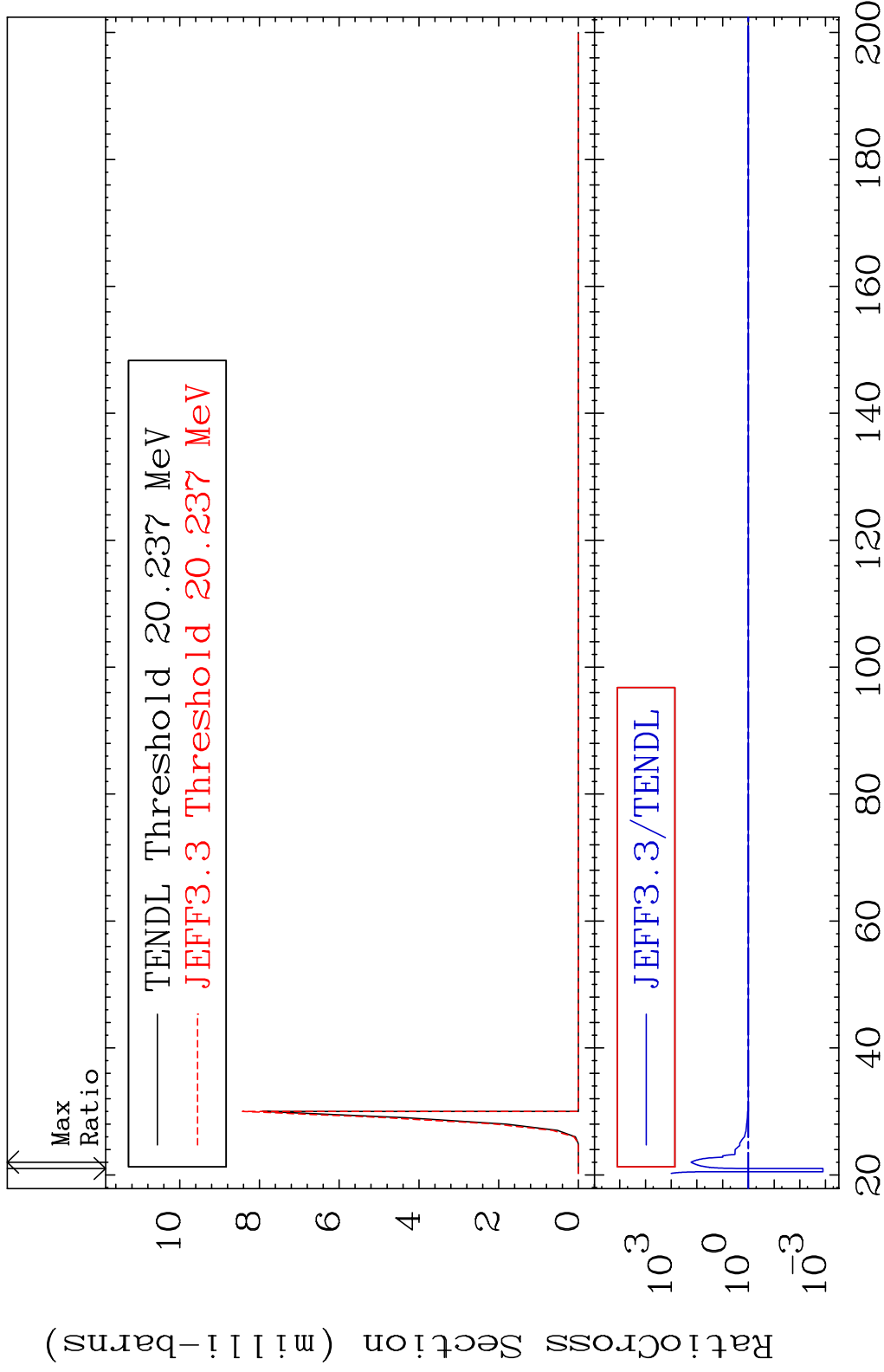
21-Sc-47

MAT 2131

(n,2n) α

21-Sc-47

Cross Section -99.87 To 9999. %



8

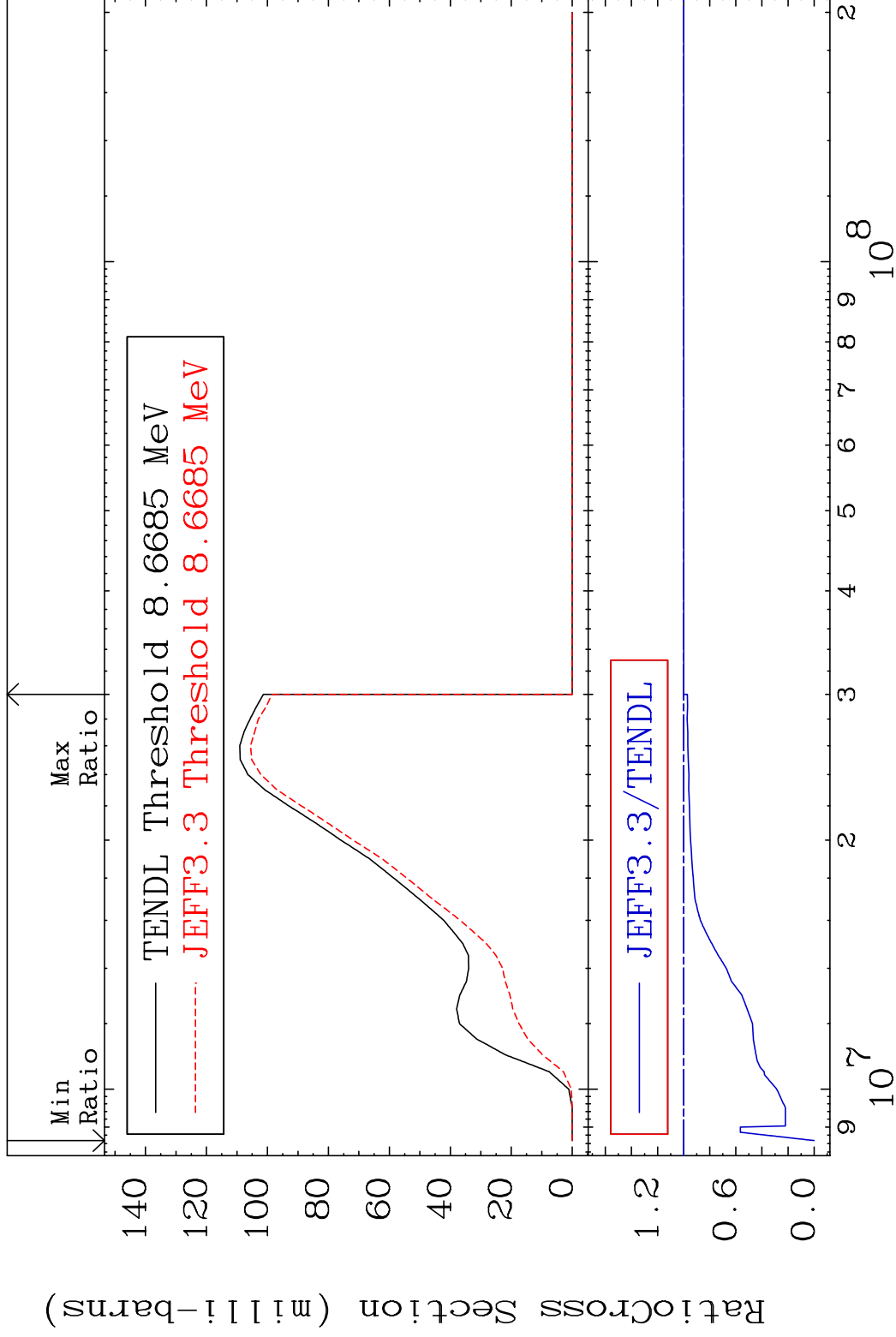
Incident Energy (MeV)

21-Sc-47

MAT 2131

(n, n') p 21-Sc-47

Cross Section -100.0 To 0.000 %



9

Incident Energy (eV)

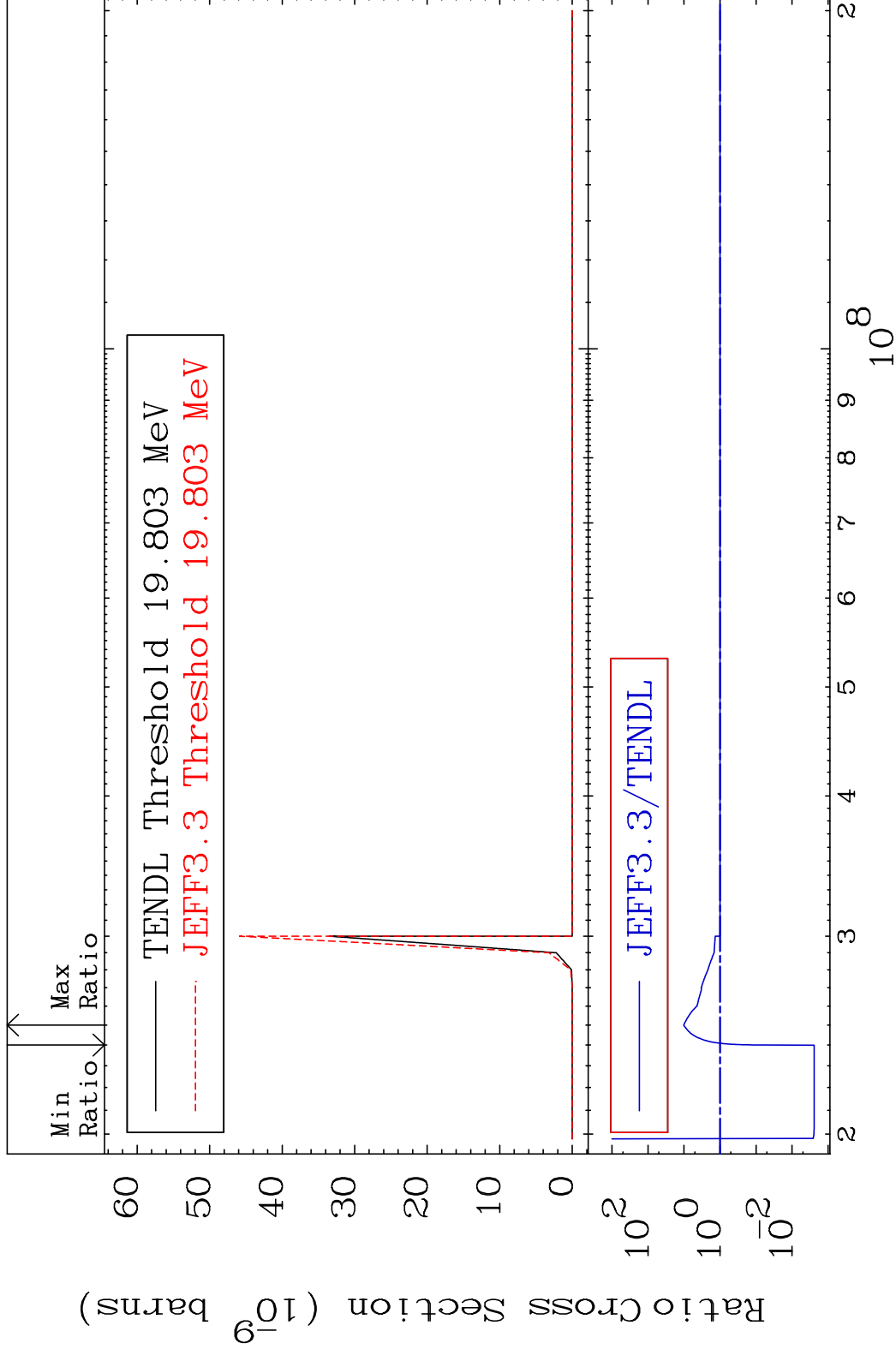
21-Sc-47

MAT 2131

(n, n') 2 α

21-Sc-47

Cross Section -99.76 To 922.6 %



10

Incident Energy (eV)

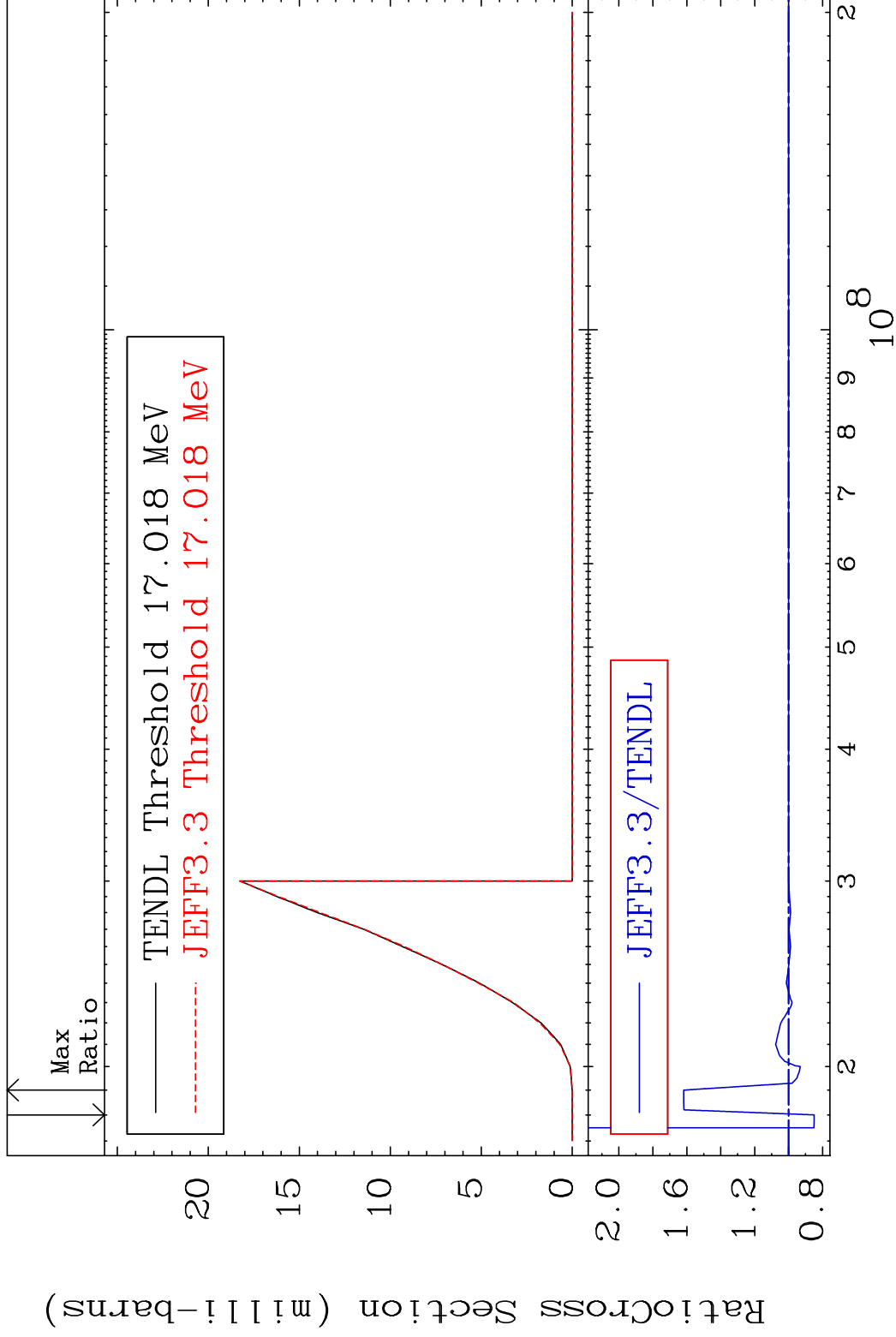
21-Sc-47

MAT 2131

(n, n') d

21-Sc-47

Cross Section -15.04 To 61.84 %

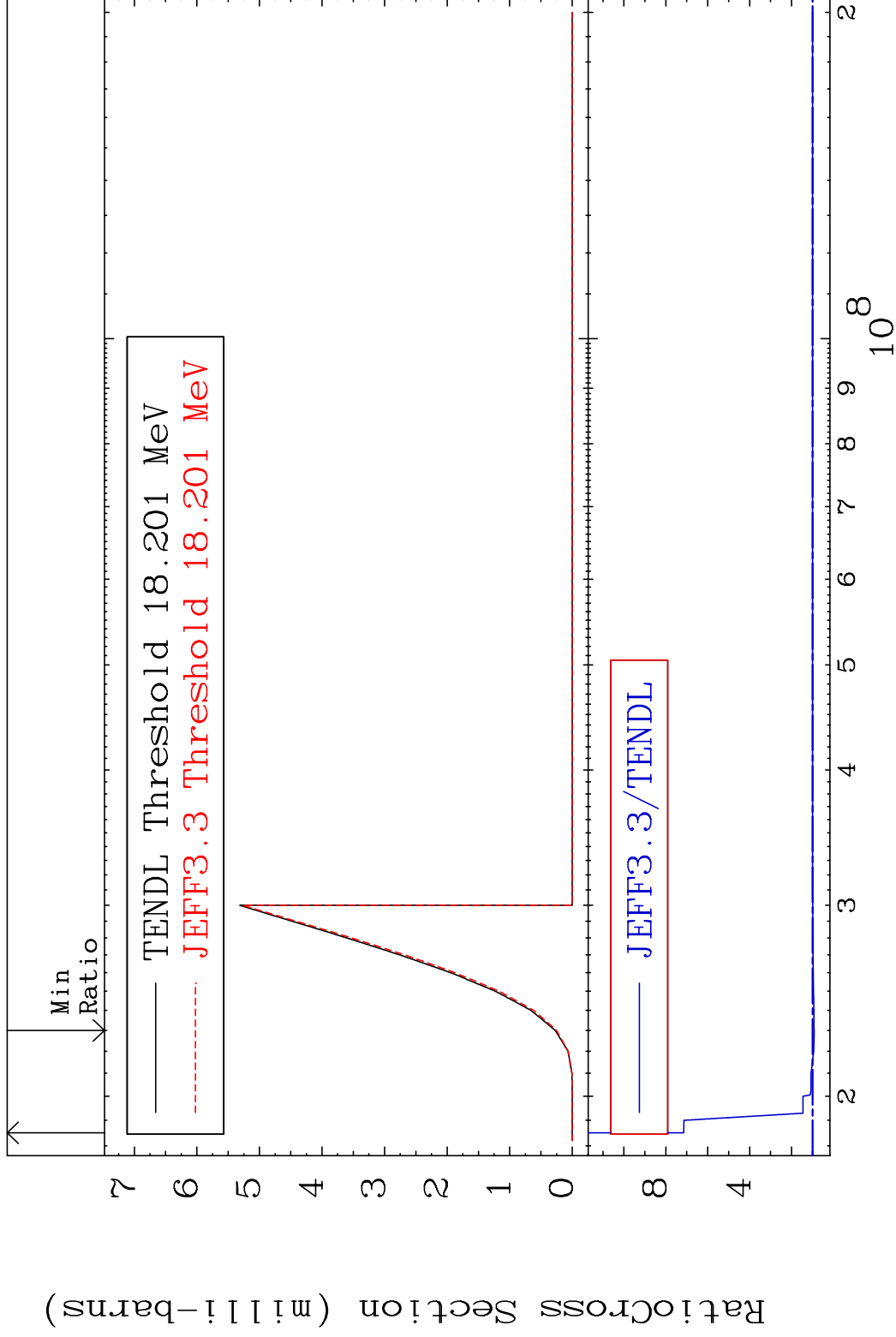


MAT 2131

(n, n') t

21-Sc-47

Cross Section -7.680 To 614.9 %



12

Incident Energy (eV)

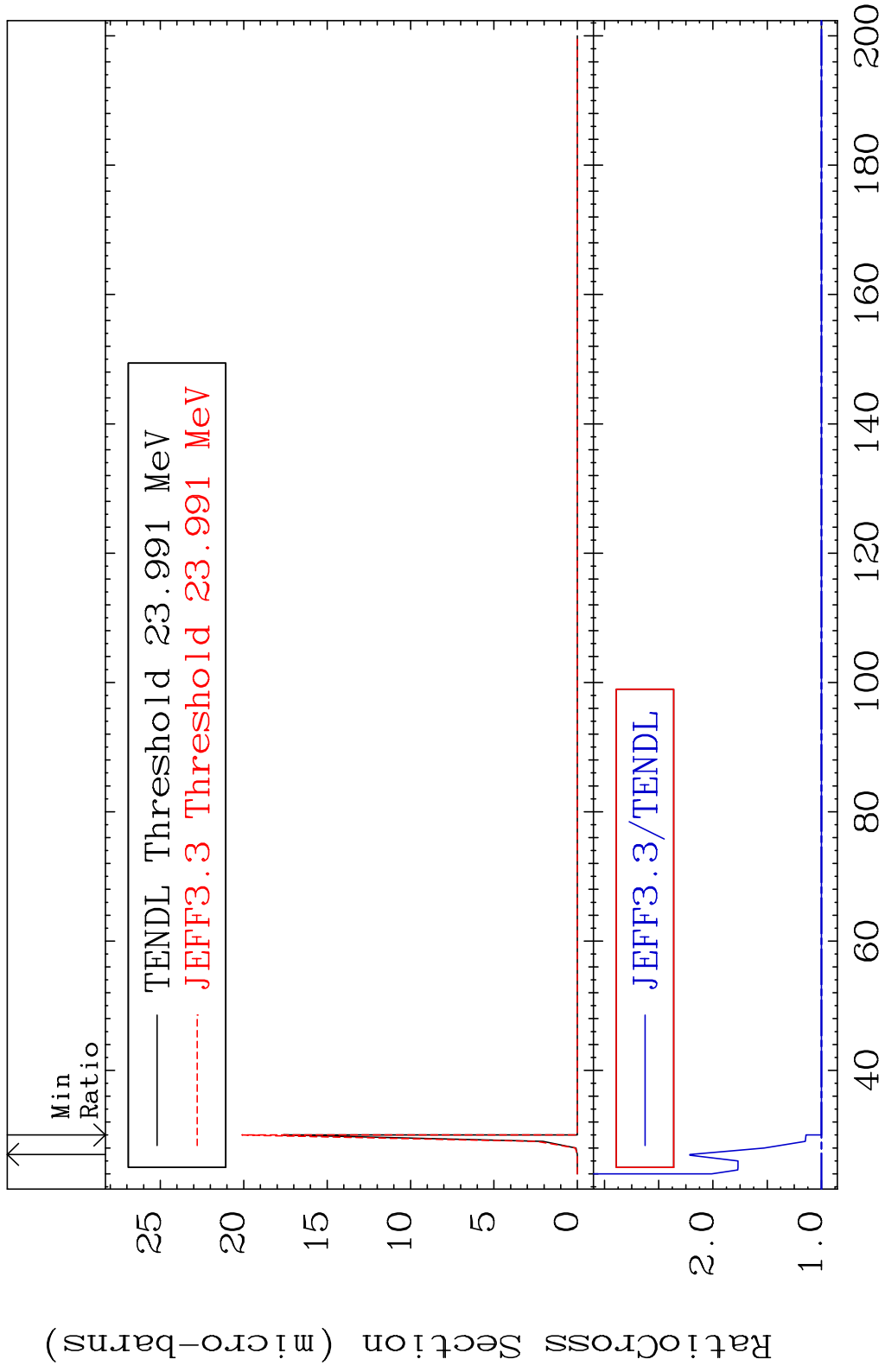
21-Sc-47

MAT 2131

(n,n') He-3

21-Sc-47

Cross Section 0.000 To 121.4 %

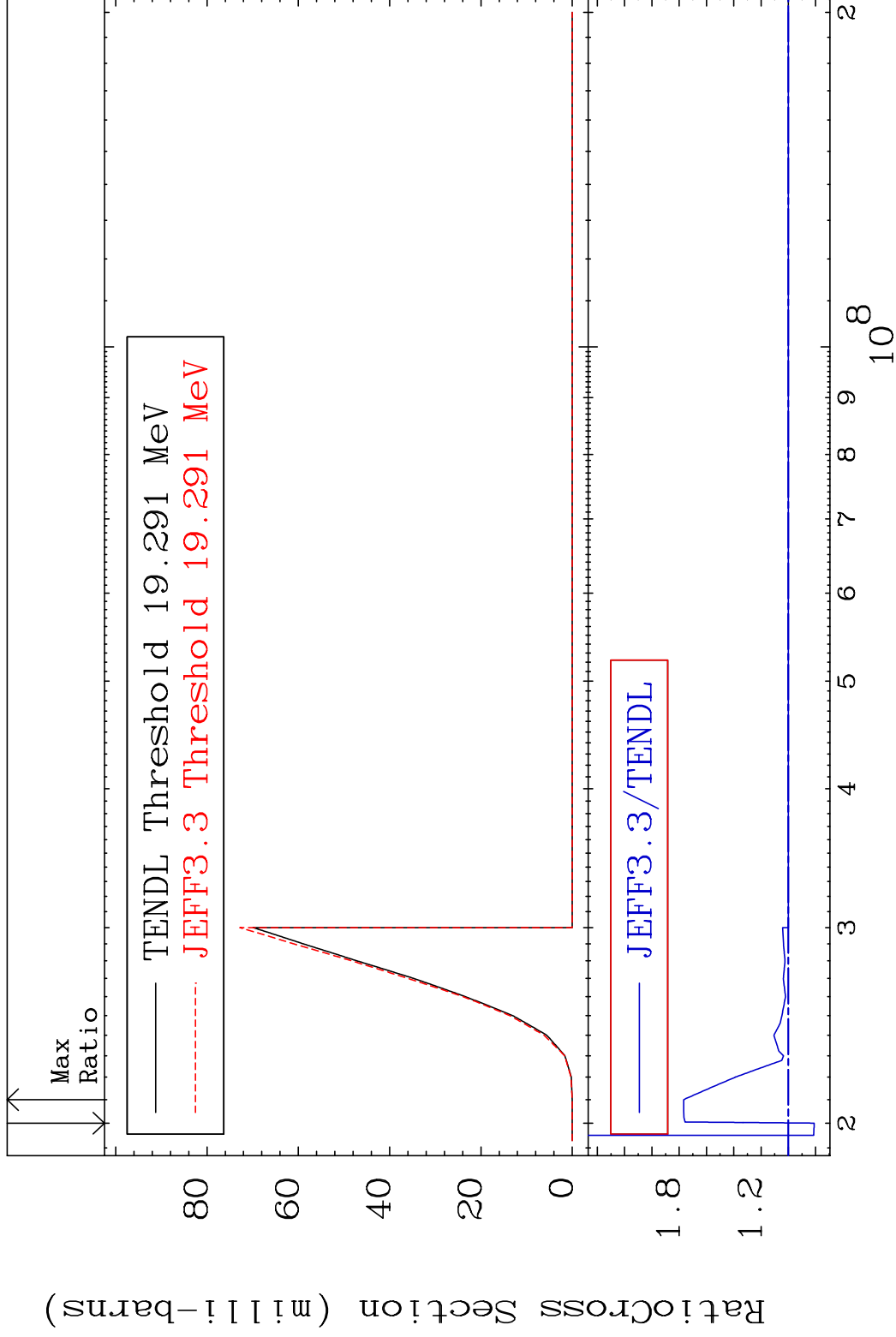


MAT 2131

(n,2n) p

21-Sc-47

Cross Section -18.90 To 76.72 %



14

Incident Energy (eV)

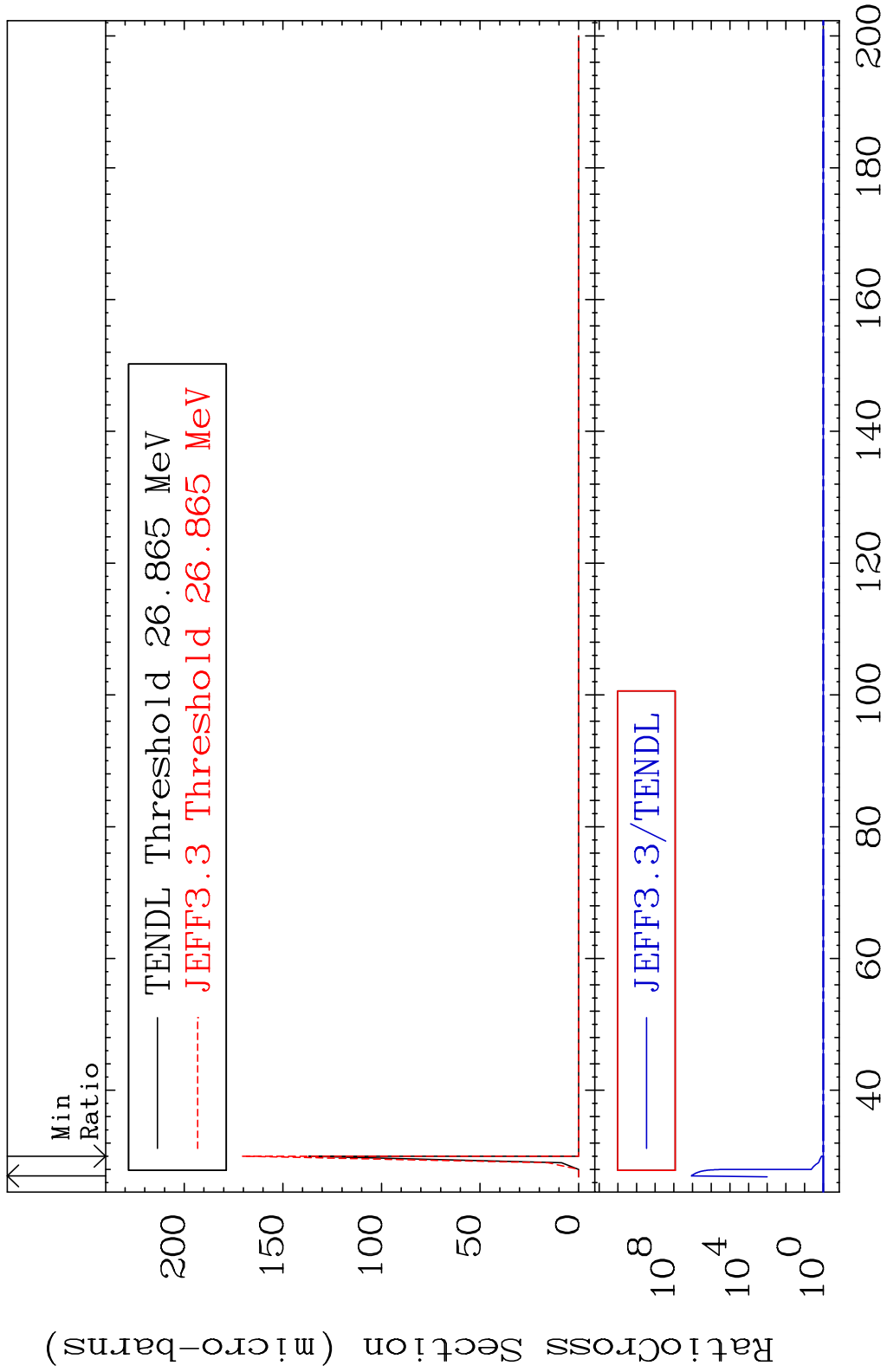
21-Sc-47

MAT 2131

(n,3n) p

21-Sc-47

Cross Section 0.000 To 9999. %

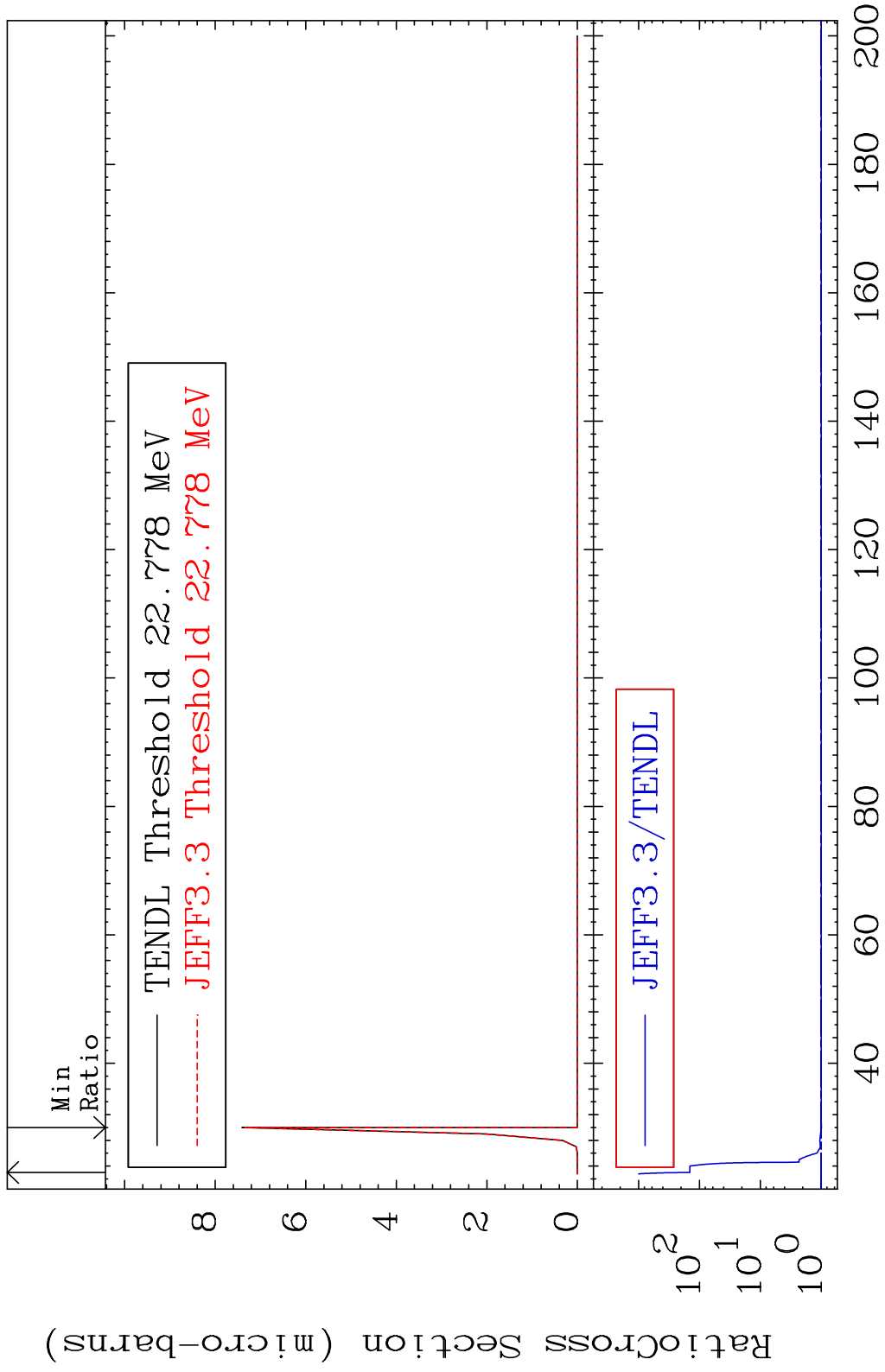


MAT 2131

(n,2n) p

21-Sc-47

Cross Section -0.886 To 9999. %

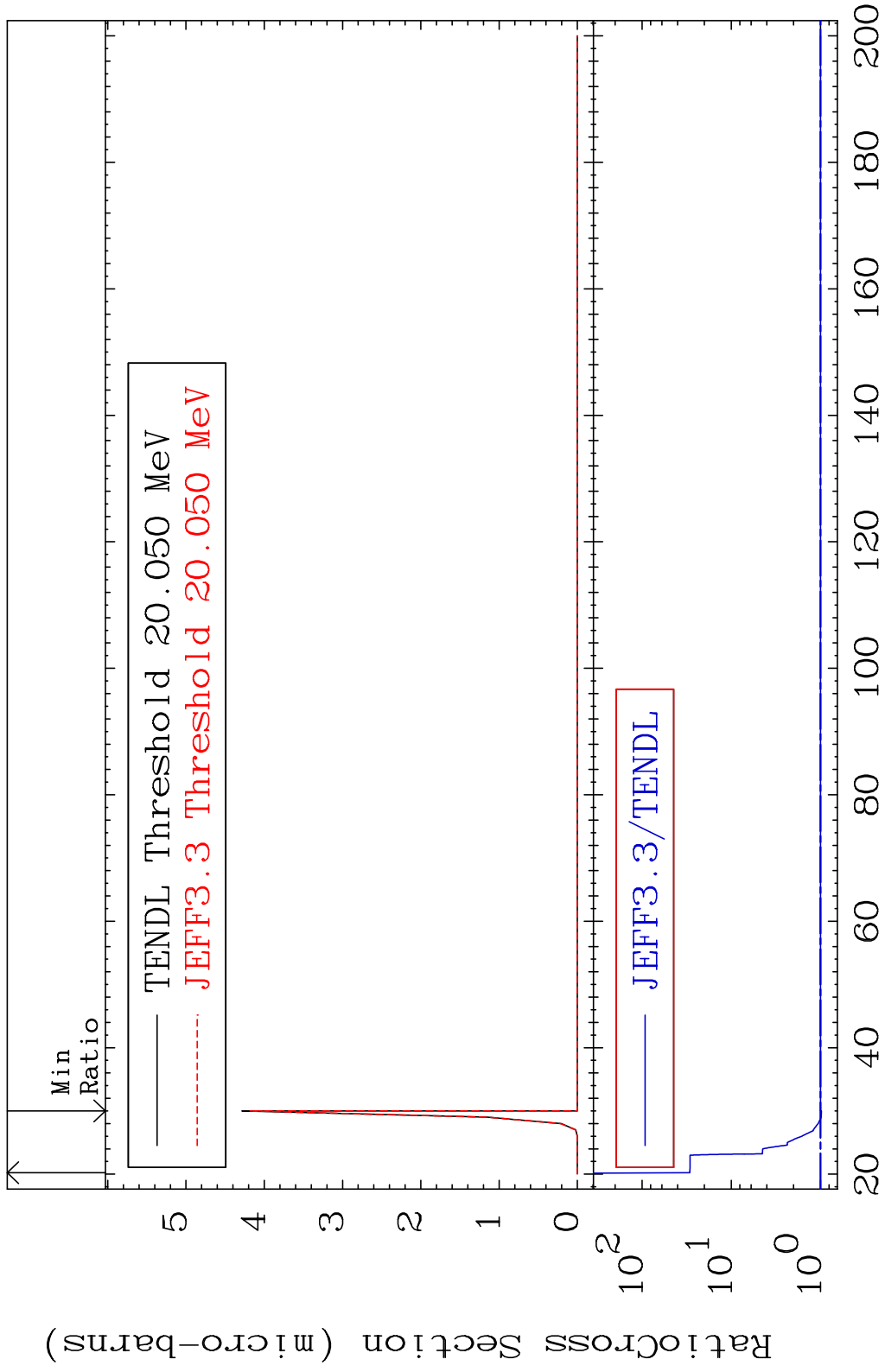


MAT 2131

(n,n') p α

21-Sc-47

Cross Section -2.333 To 2817. %

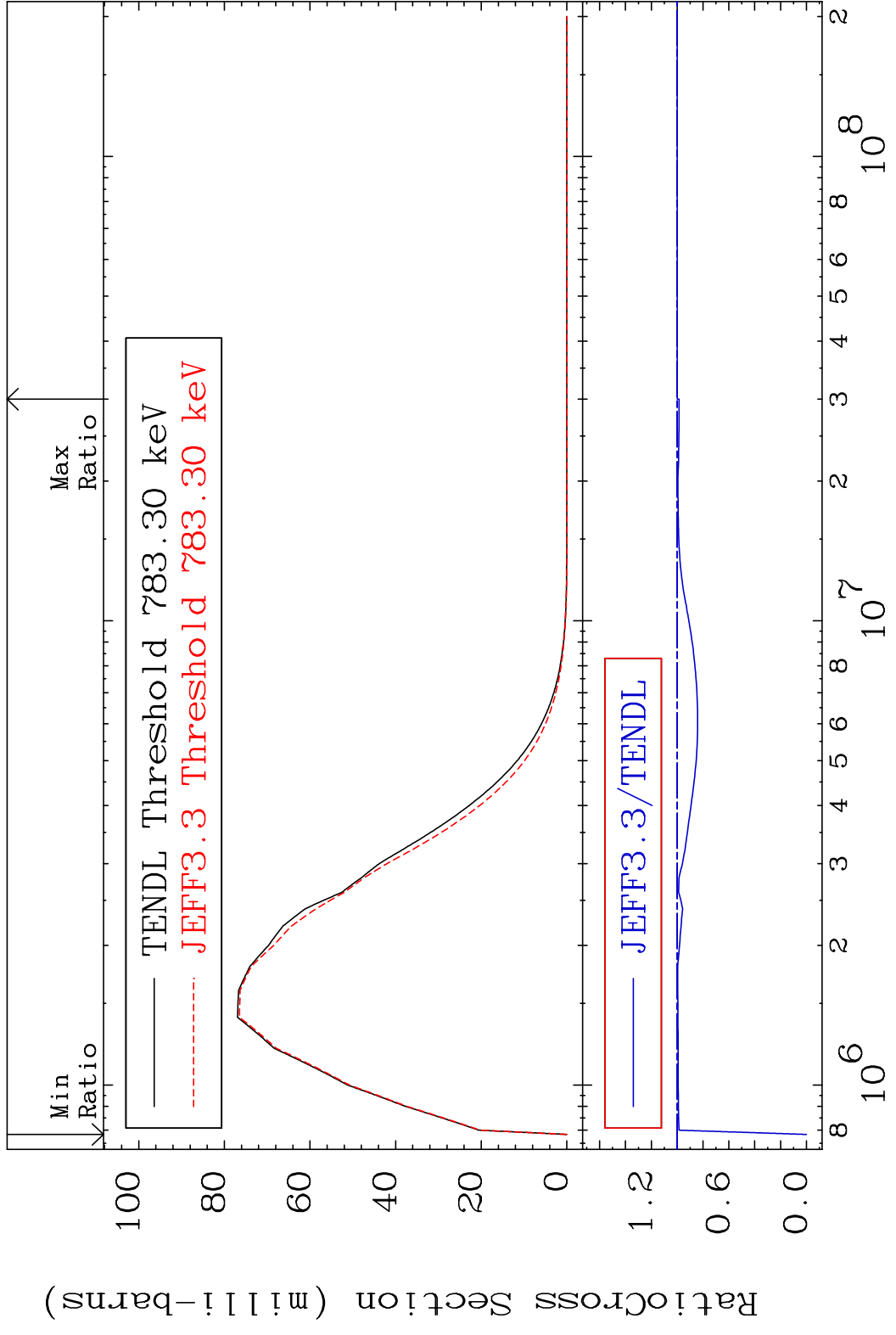


17

Incident Energy (MeV)

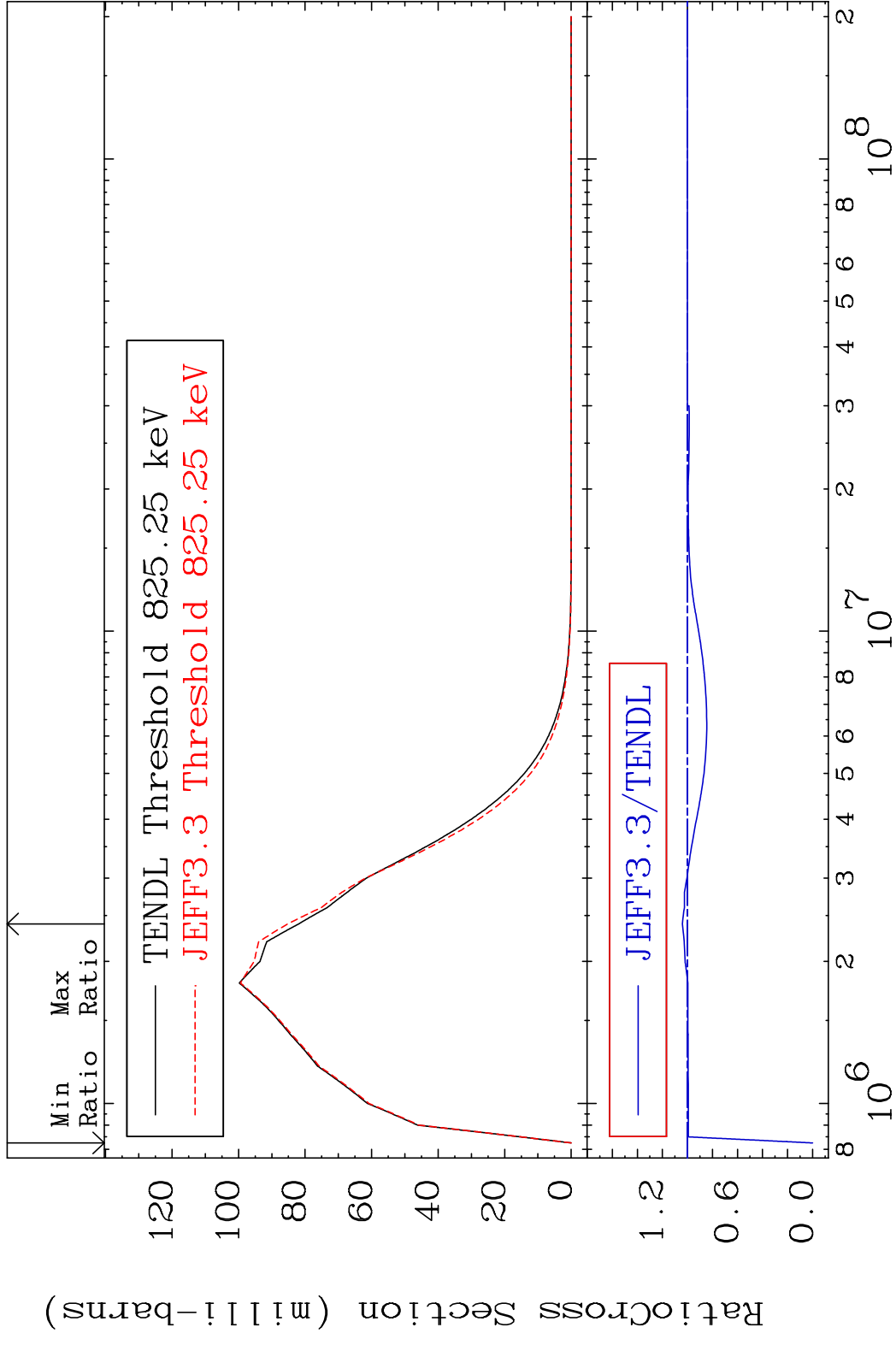
21-Sc-47

MAT 2131 MT= 51 (n, n') Level 21-Sc-47
 Cross Section -100.0 To 0.000 %

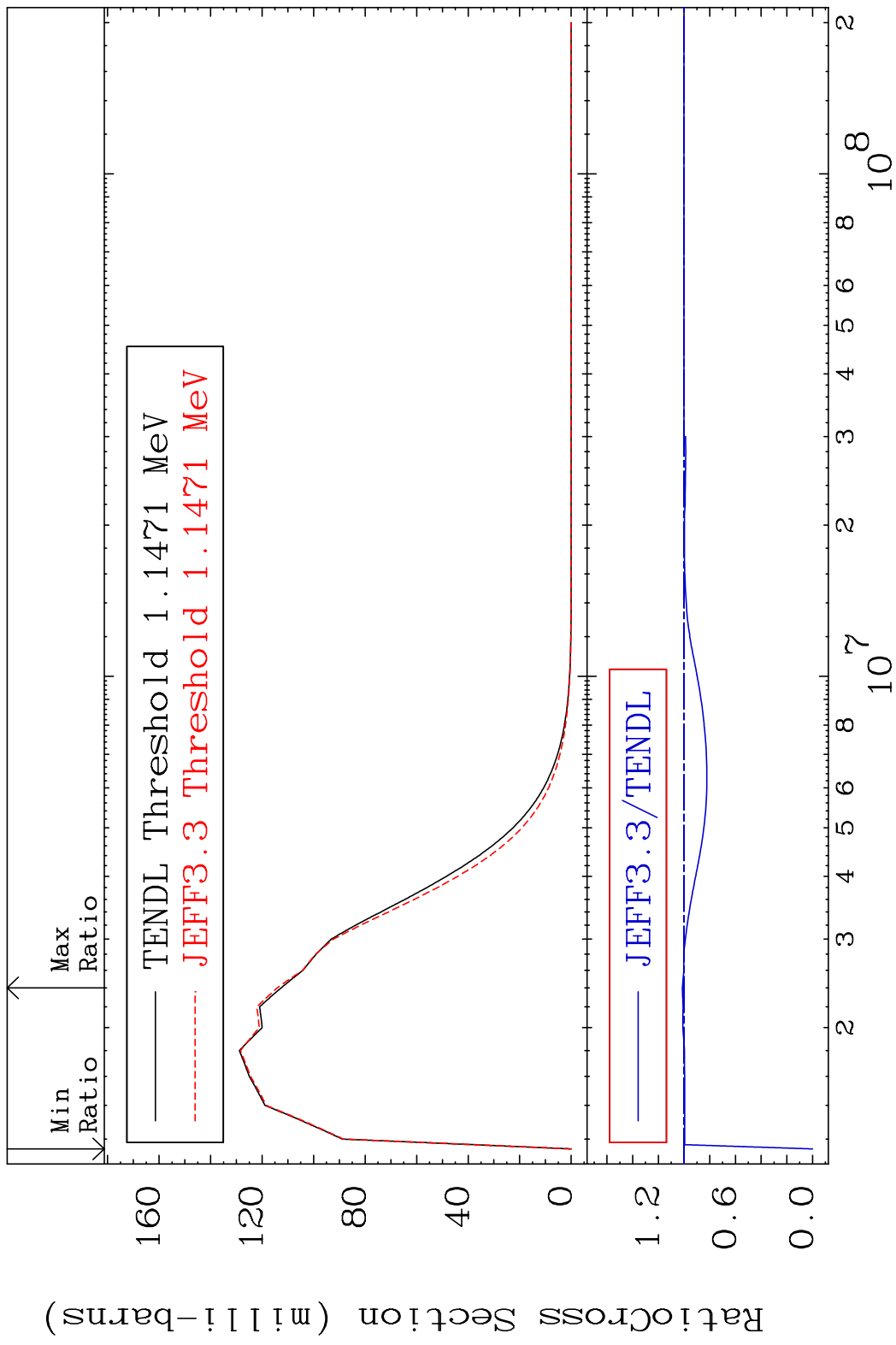


18 Incident Energy (eV) 21-Sc-47

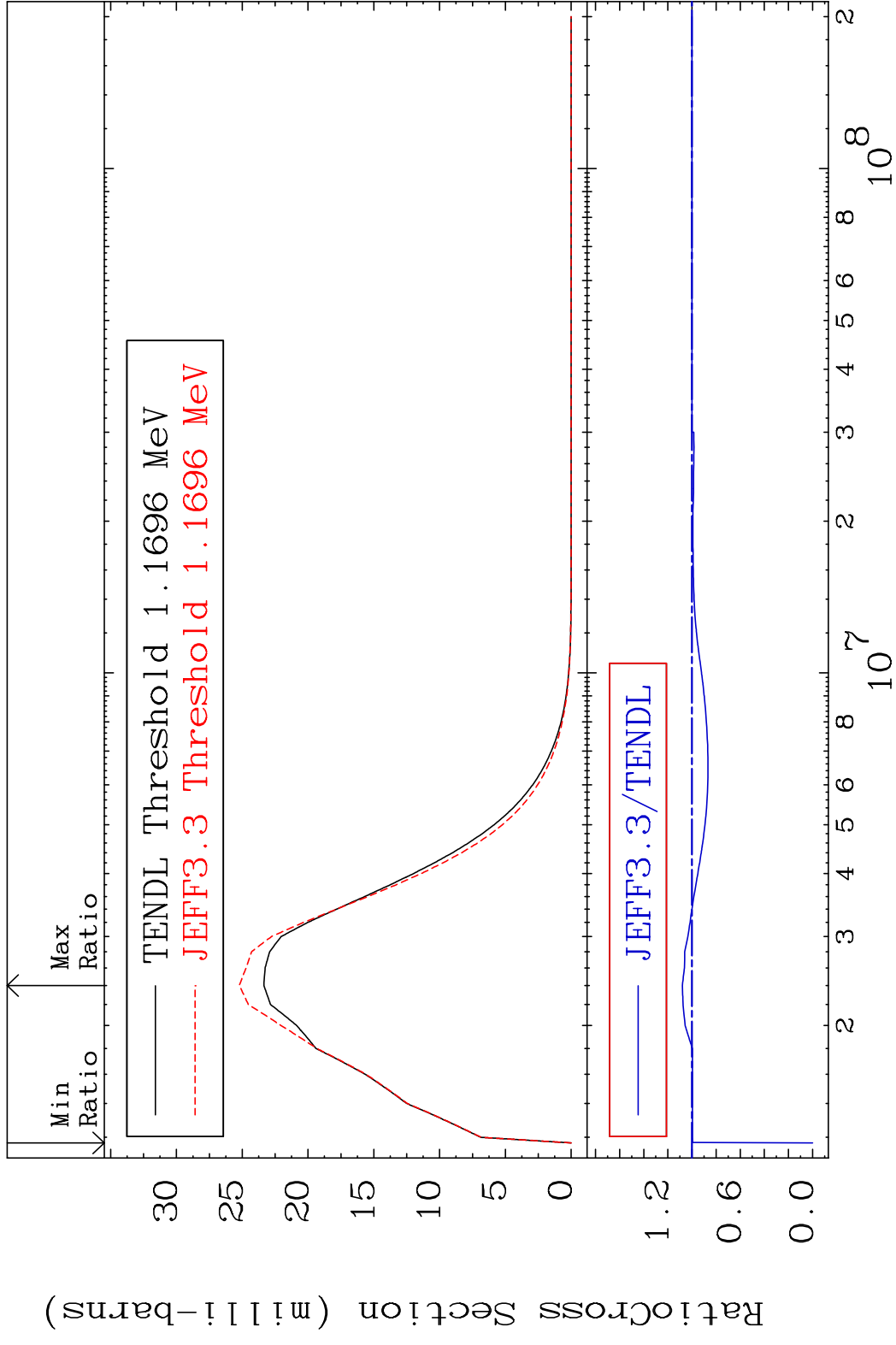
MAT 2131 MT= 52 (n, n') Level 21-Sc-47
 Cross Section -100.0 To 4.044 %



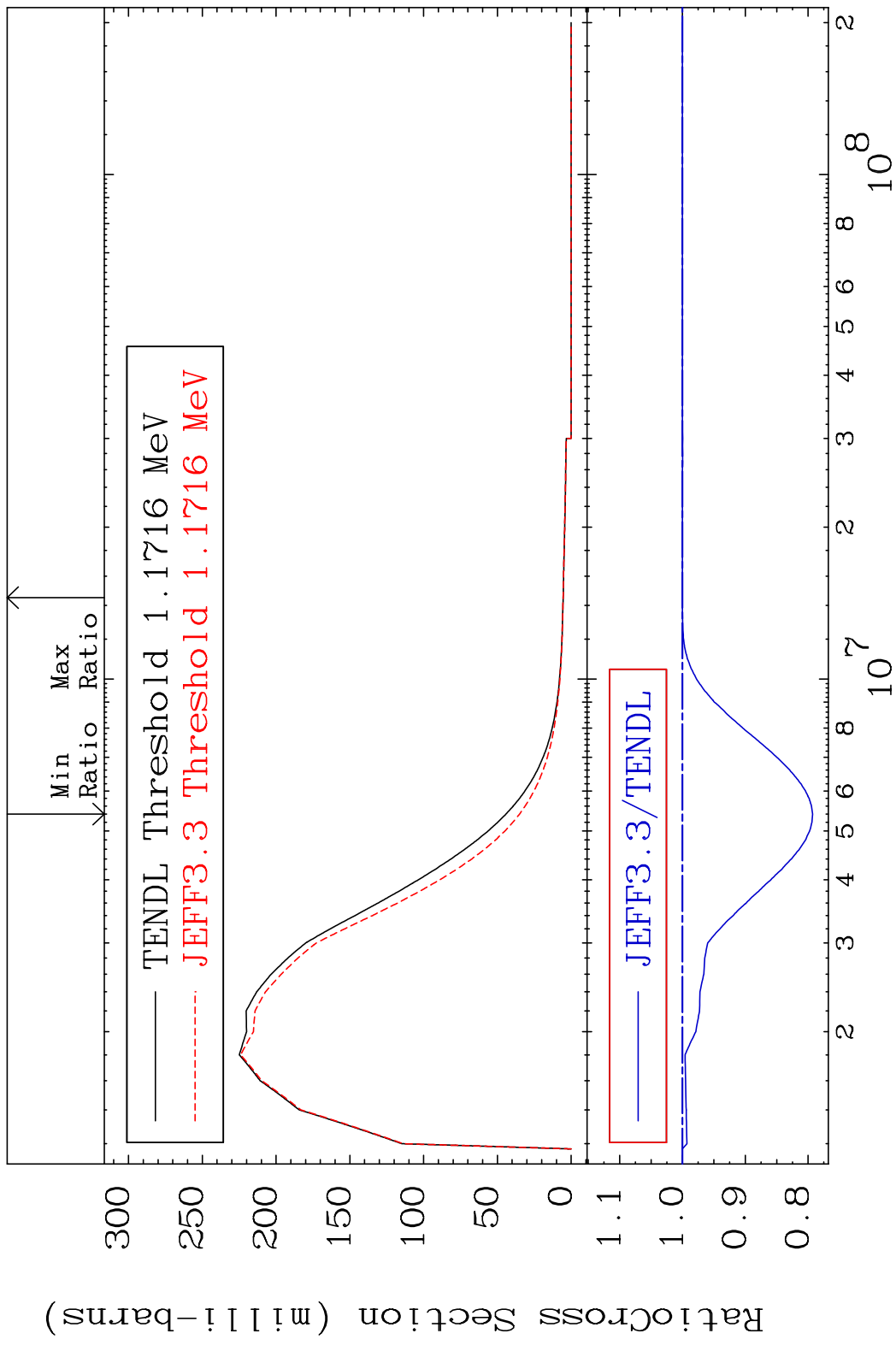
MAT 2131 MT= 53 (n, n') Level 21-Sc-47
 Cross Section -100.0 To 1.348 %



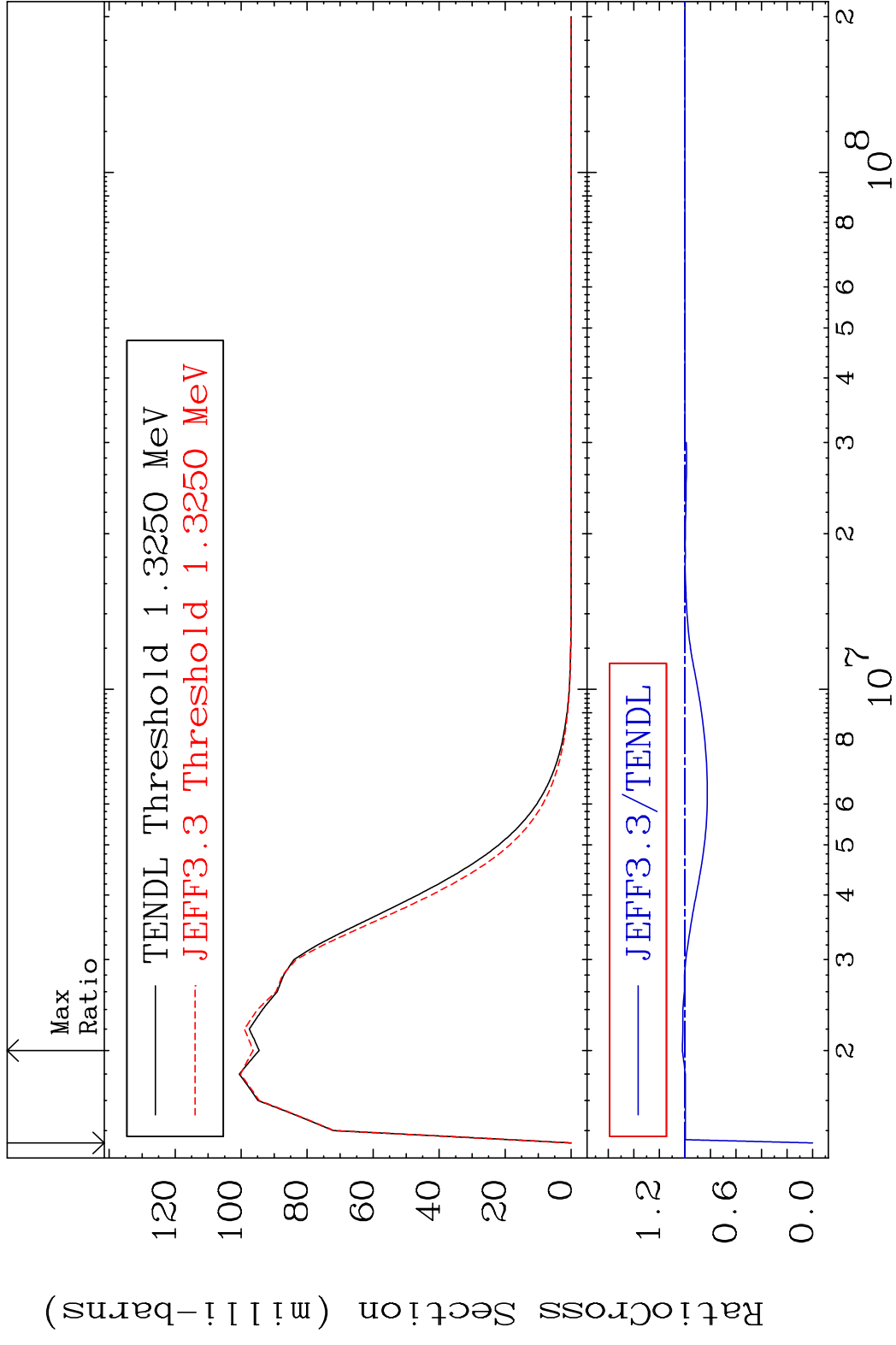
MAT 2131 MT= 54 (n, n') Level 21-Sc-47
 Cross Section -100.0 To 7.979 %



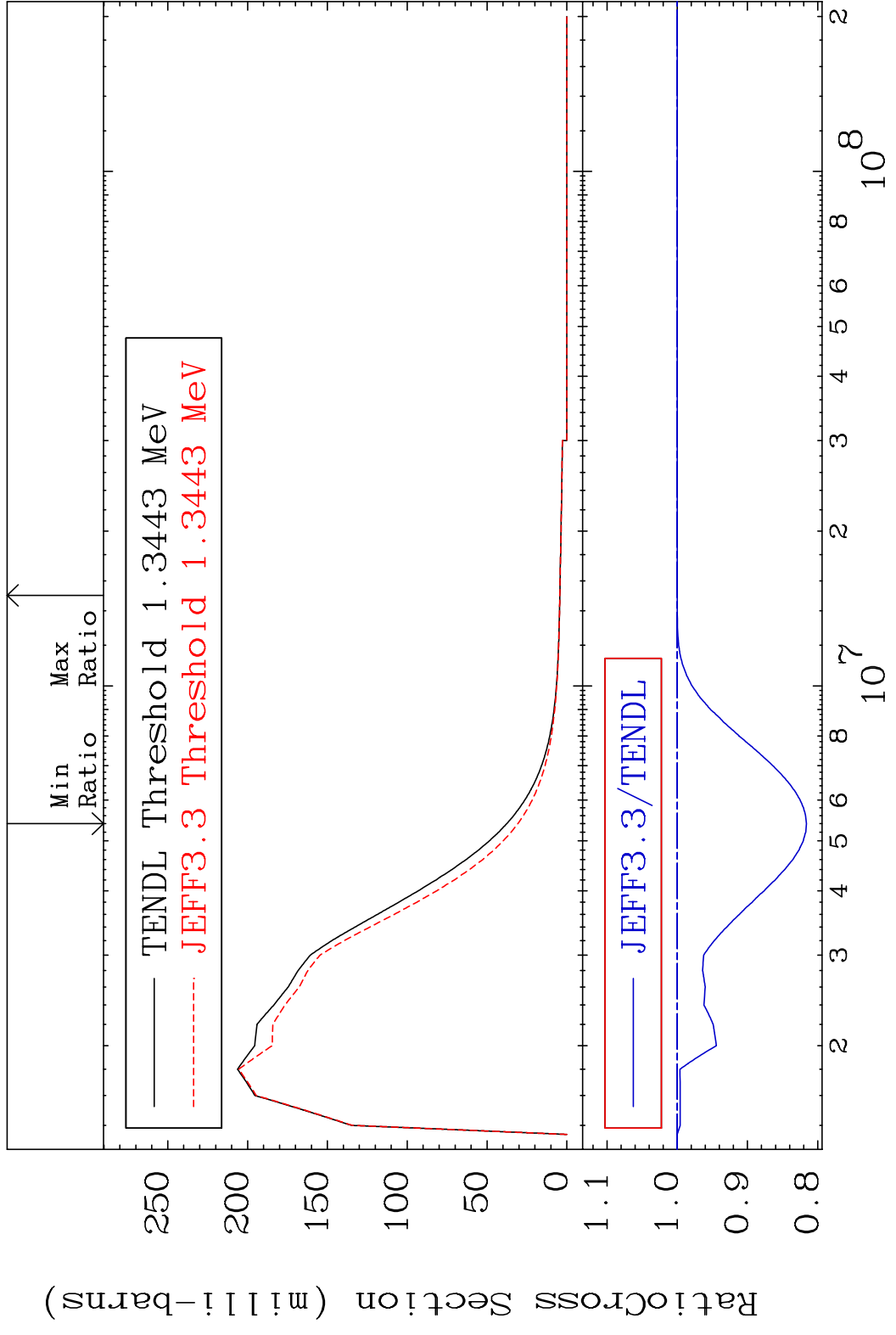
MAT 2131 MT= 55 (n, n') Level 21-Sc-47
 Cross Section -20.70 To 0.024 %



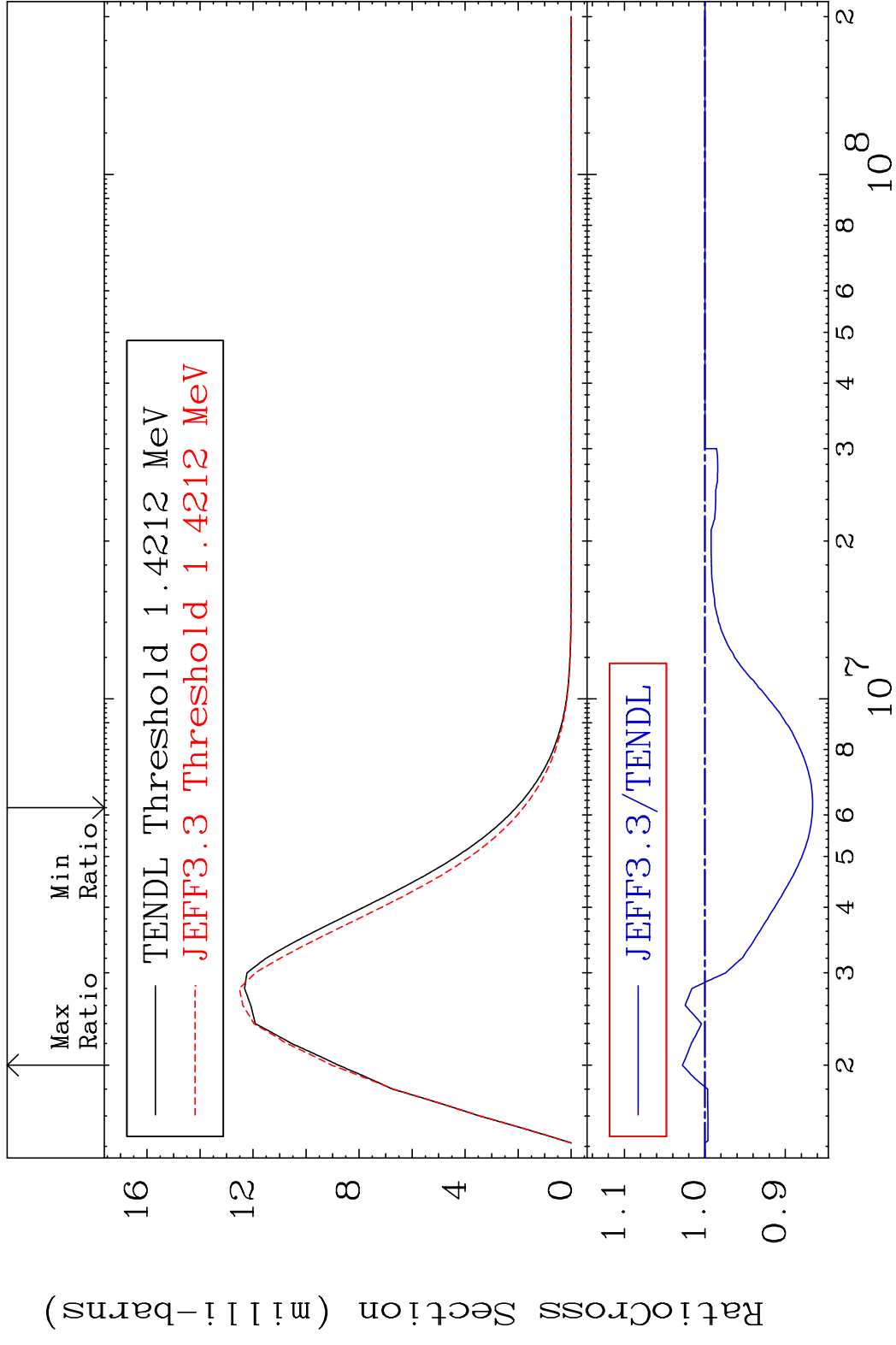
MAT 2131 MT= 56 (n,n') Level 21-Sc-47
 Cross Section -100.0 To 1.945 %



MAT 2131 MT= 57 (n, n') Level 21-Sc-47
 Cross Section -18.39 To 0.007 %



MAT 2131 MT= 58 (n, n') Level 21-Sc-47
 Cross Section -13.39 To 2.800 %

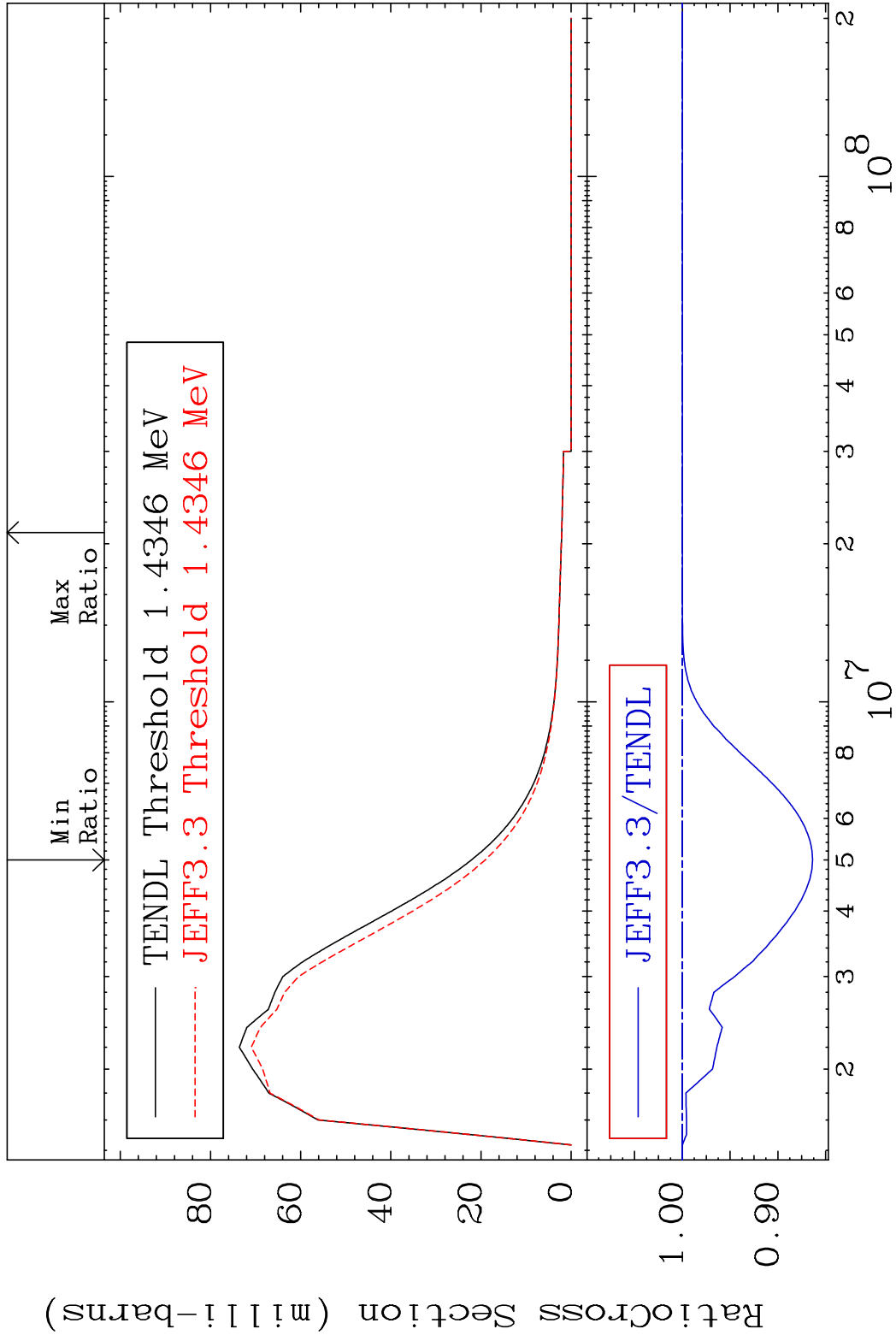


MAT 2131

MT= 59 (n, n') Level

21-Sc-47

Cross Section -13.63 To 0.000 %

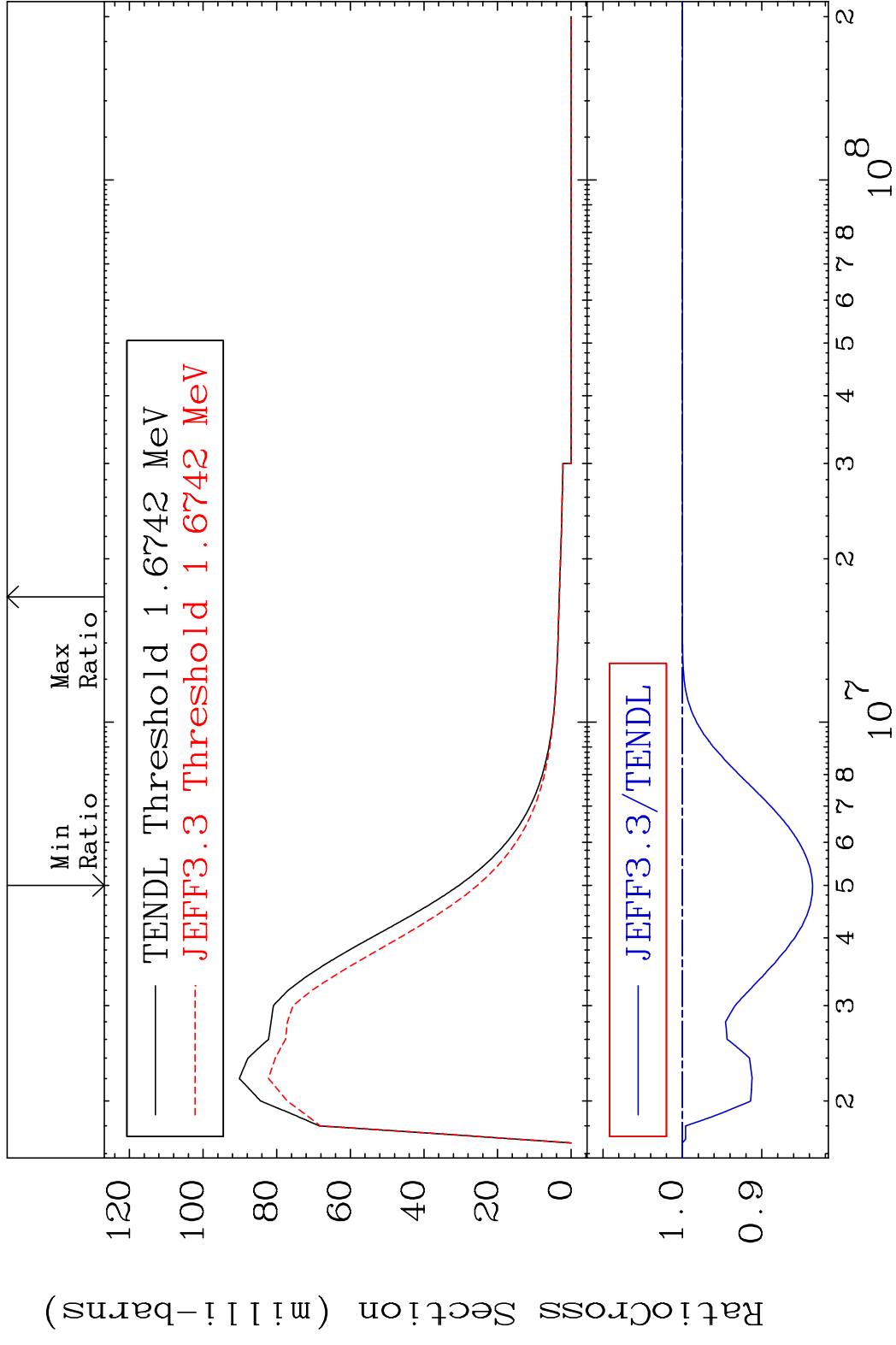


26

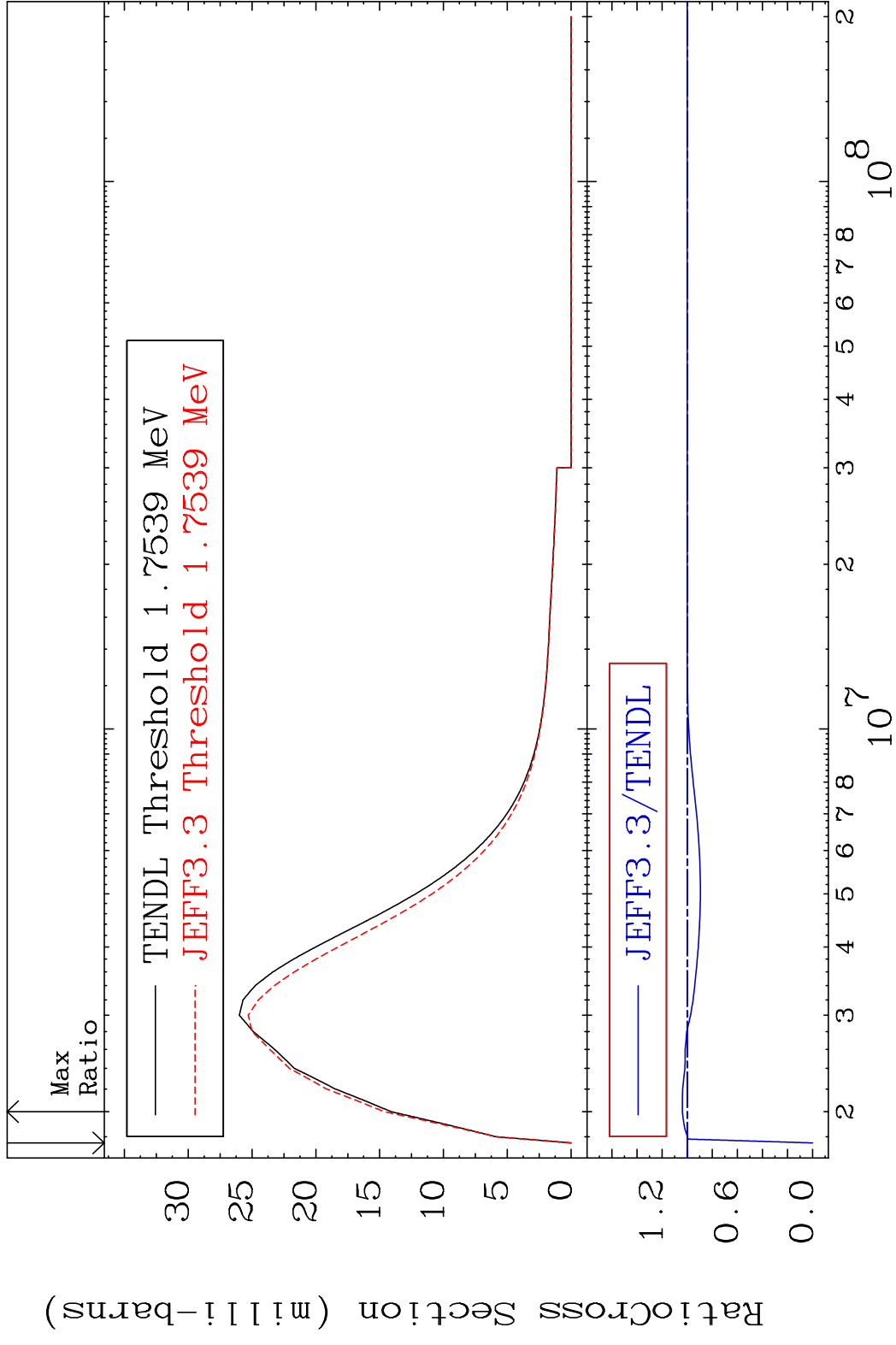
Incident Energy (eV)

21-Sc-47

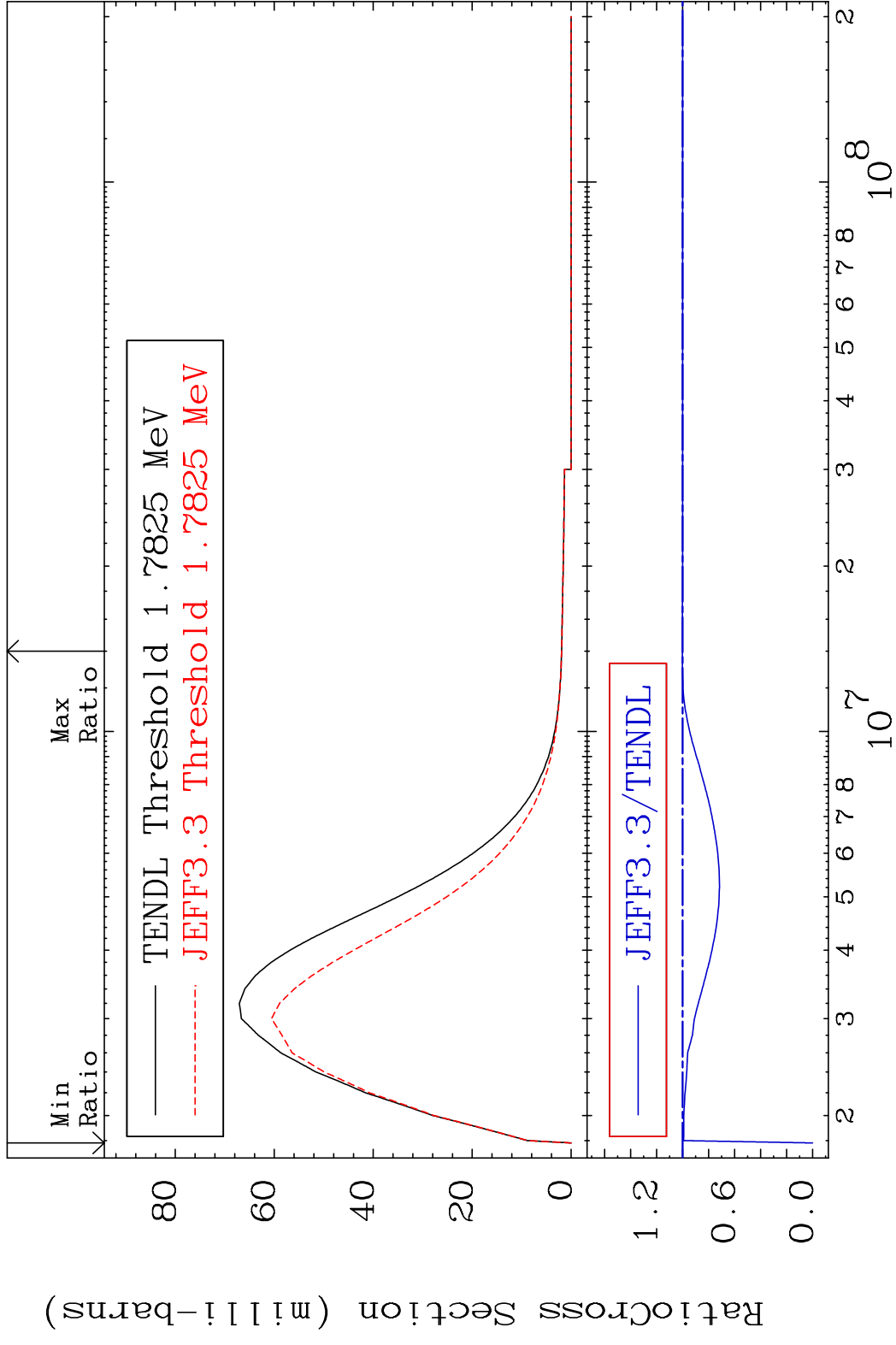
MAT 2131 MT= 60 (n, n') Level 21-Sc-47
 Cross Section -16.39 To 0.000 %



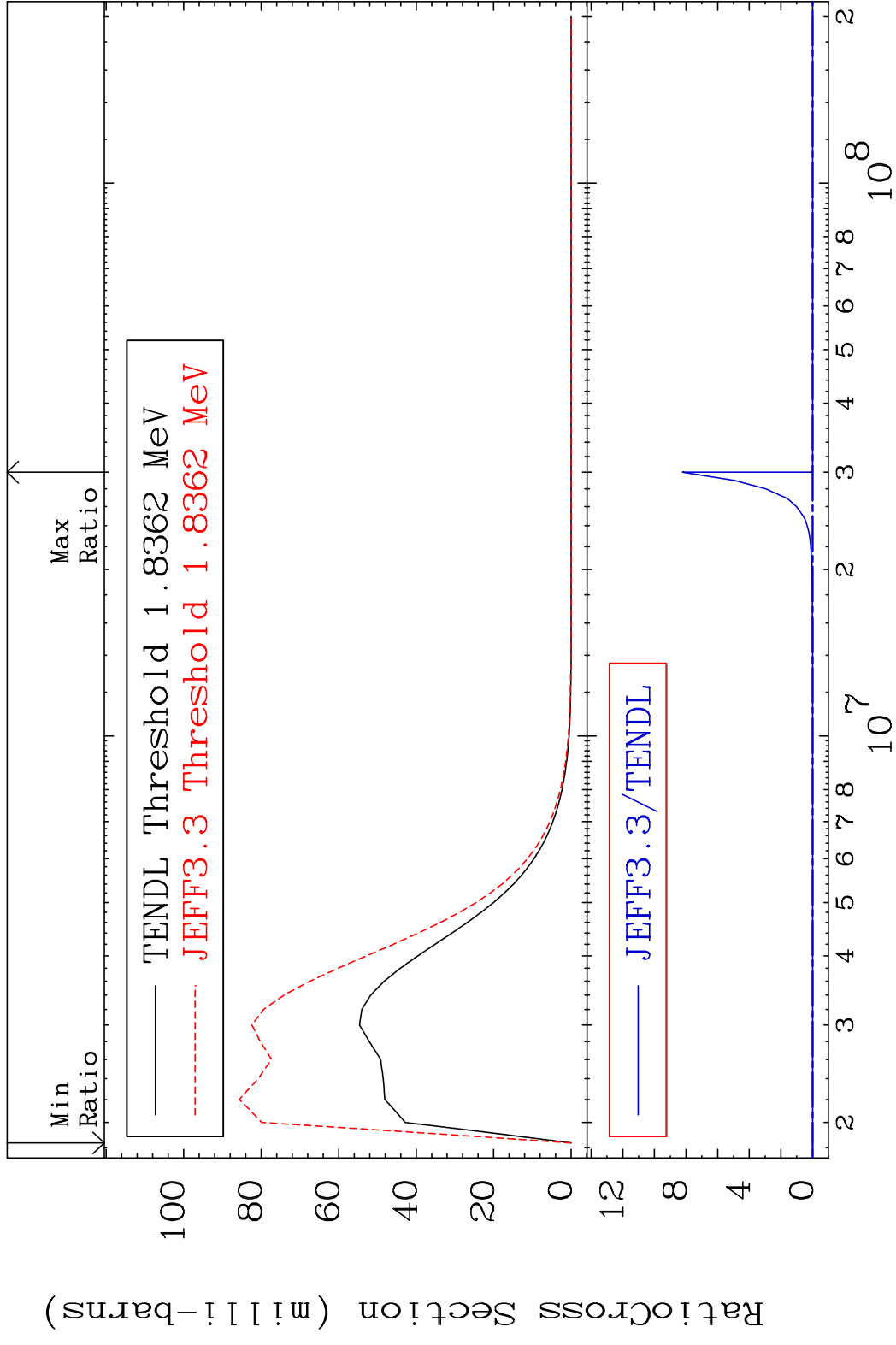
MAT 2131 MT= 61 (n, n') Level 21-Sc-47
 Cross Section -100.0 To 3.865 %



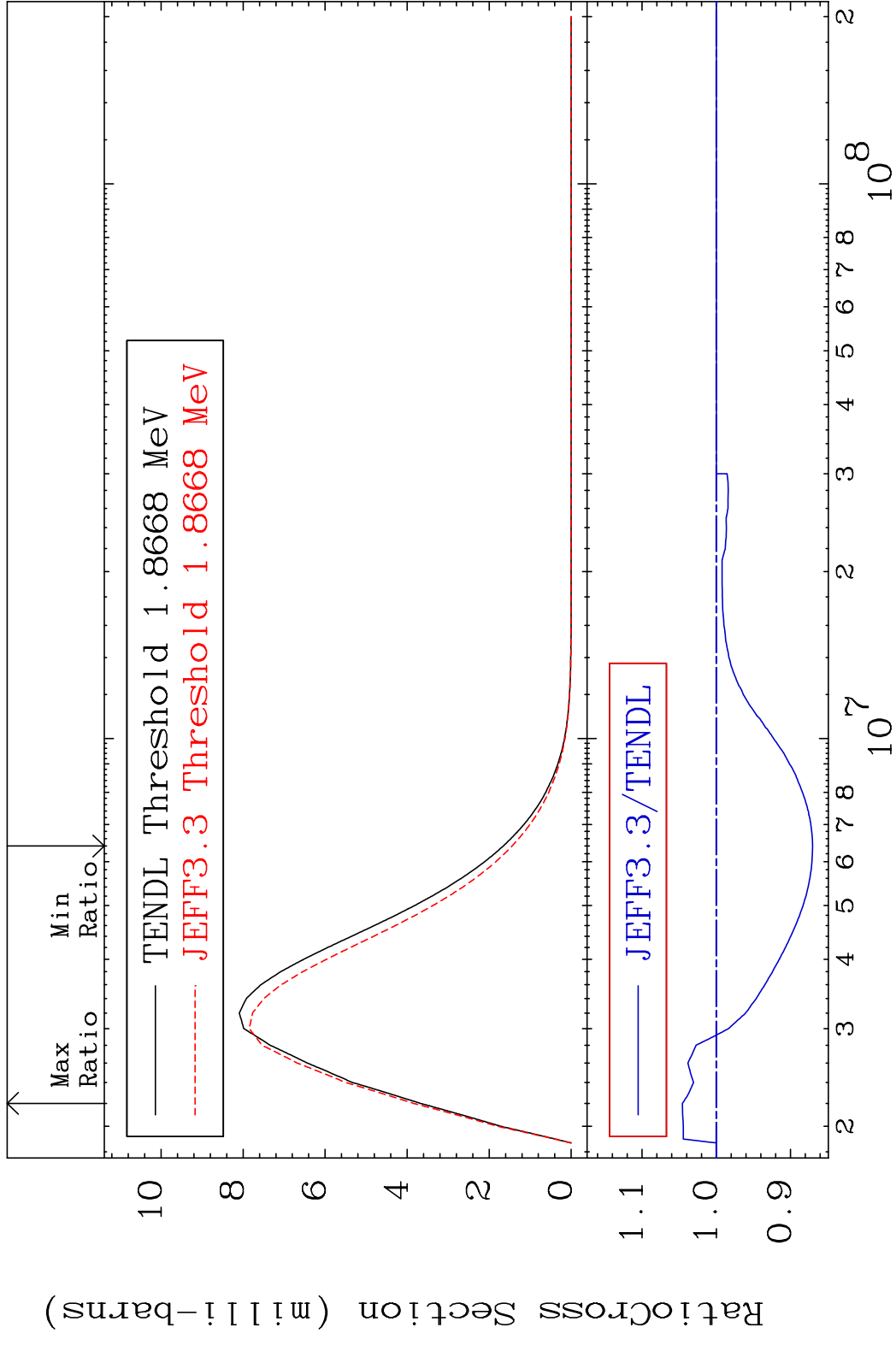
MAT 2131 MT= 62 (n, n') Level 21-Sc-47
 Cross Section -100.0 To 0.149 %



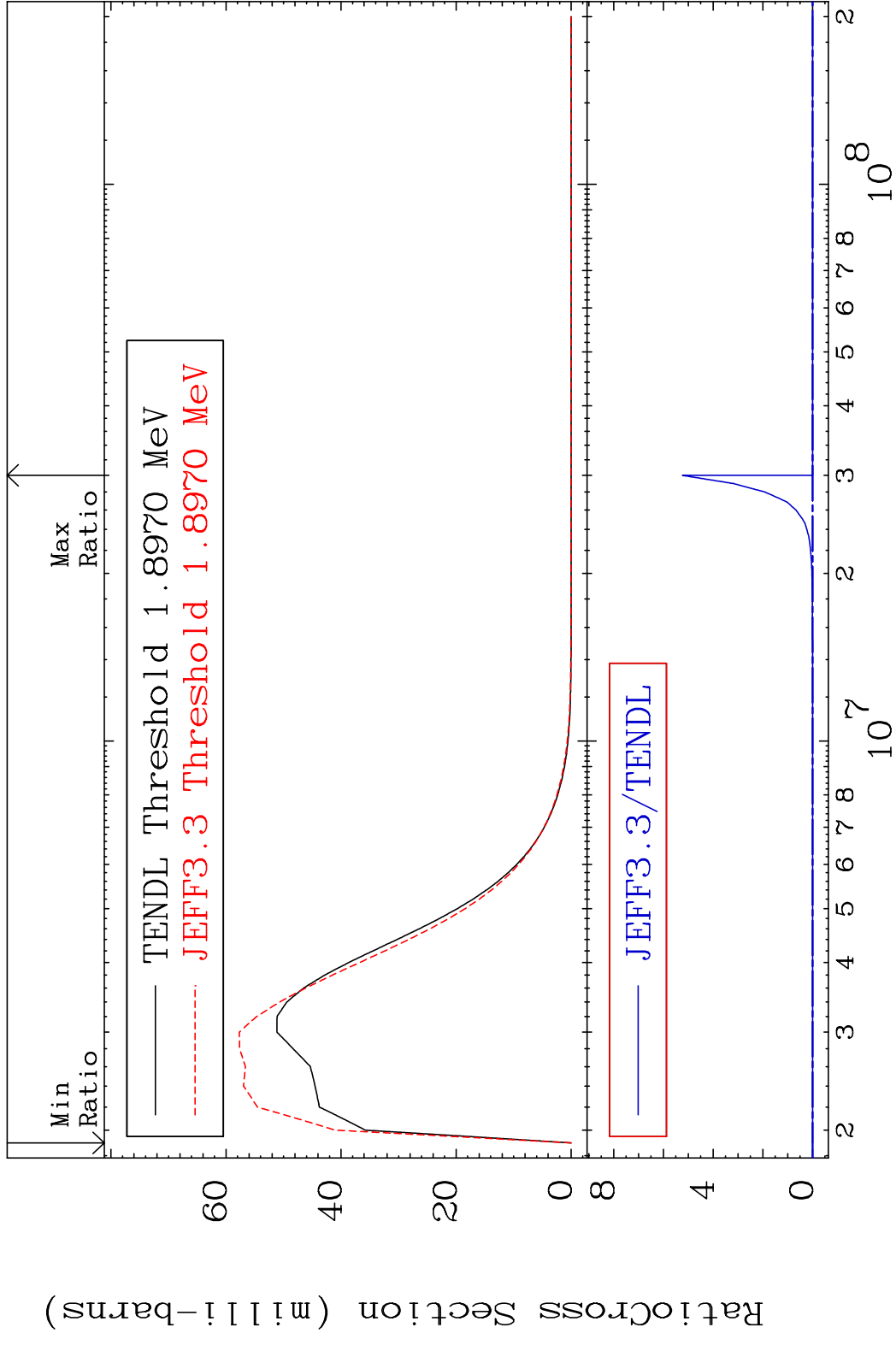
MAT 2131 MT= 63 (n, n') Level 21-Sc-47
 Cross Section -100.0 To 9999. %



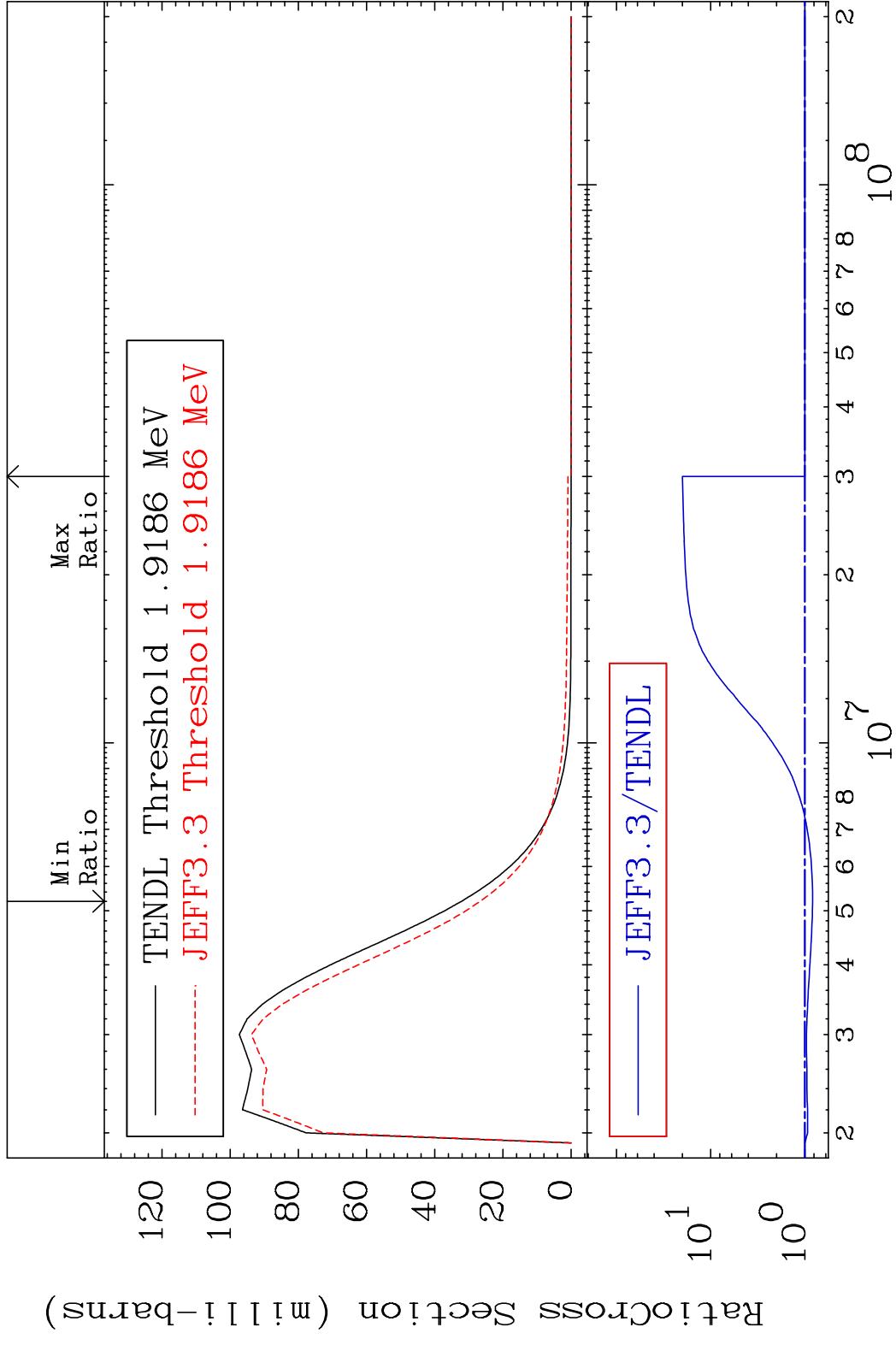
MAT 2131 MT= 64 (n,n') Level 21-Sc-47
 Cross Section -12.99 To 4.574 %



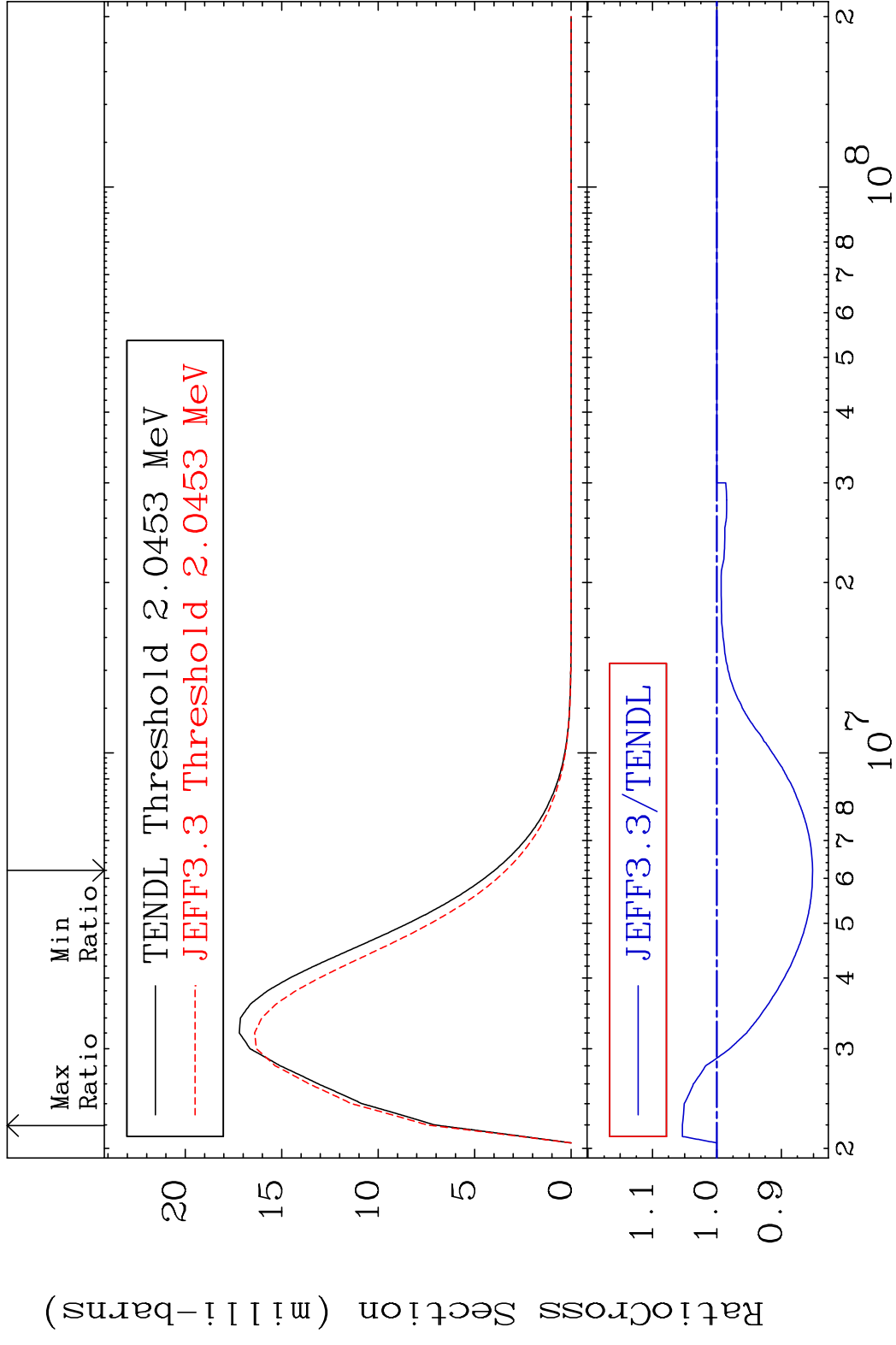
MAT 2131 MT= 65 (n, n') Level 21-Sc-47
 Cross Section -100.0 To 9999. %



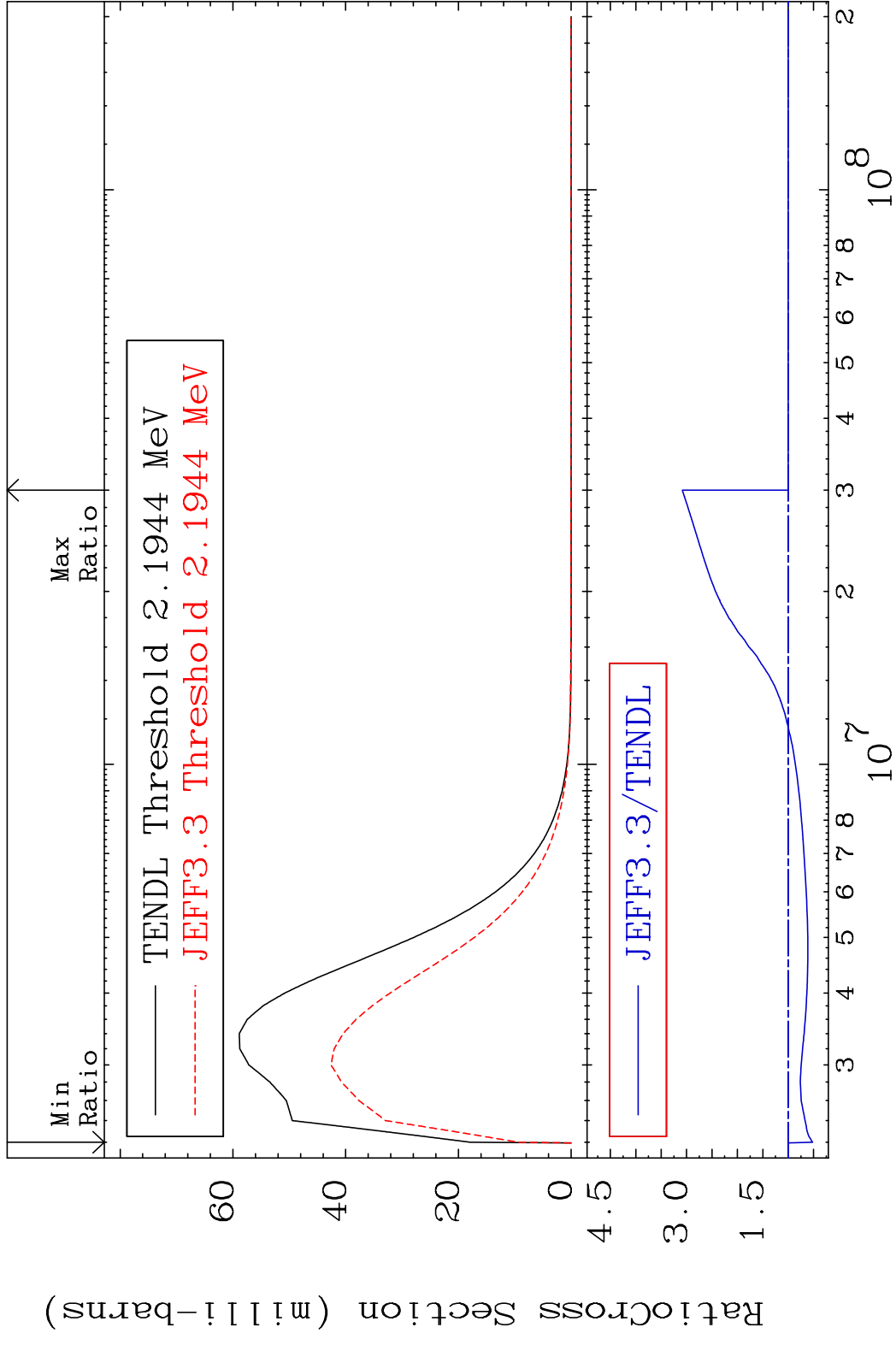
MAT 2131 MT= 66 (n, n') Level 21-Sc-47
 Cross Section -17.10 To 1902. %



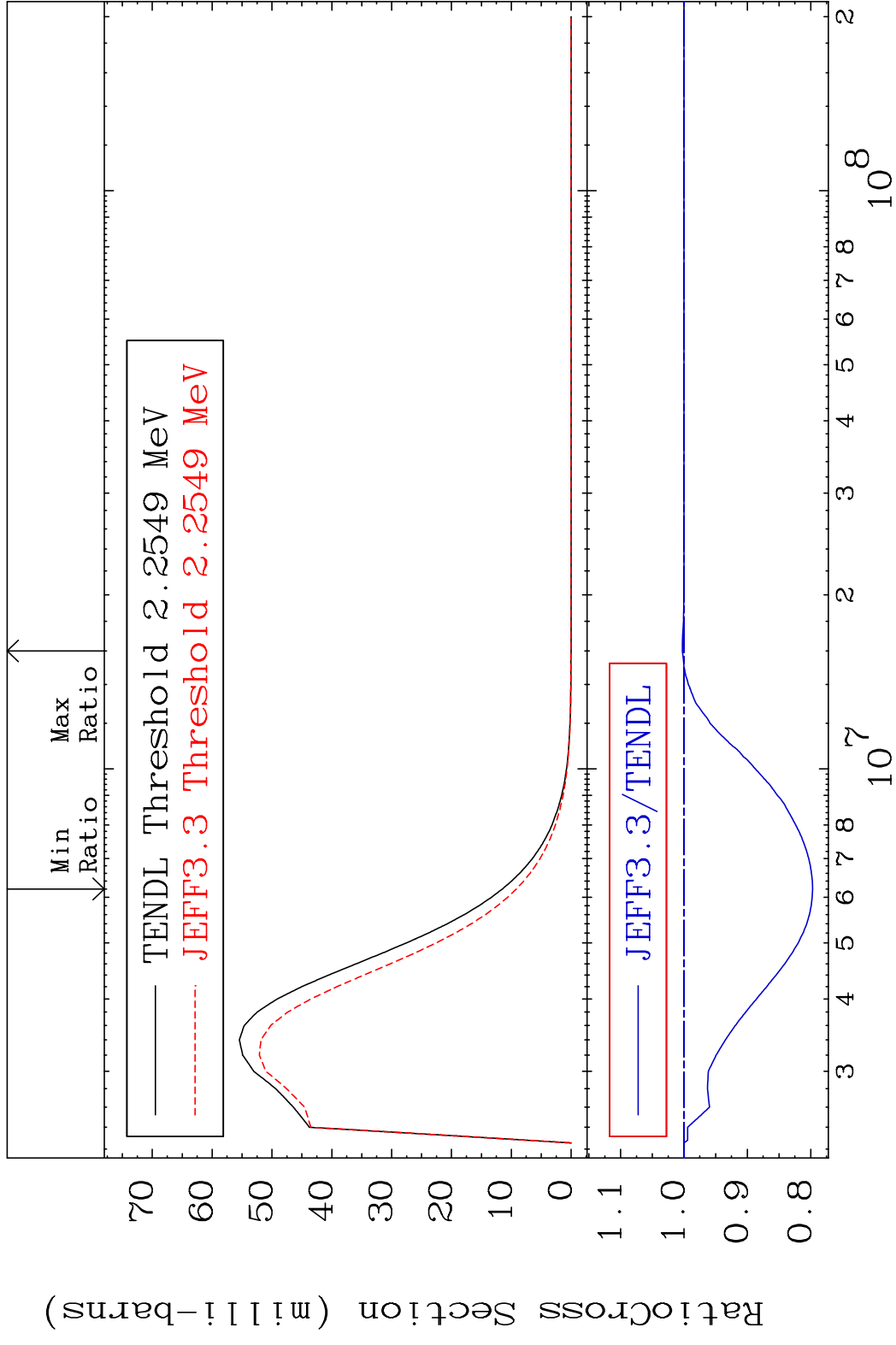
MAT 2131 MT= 67 (n, n') Level 21-Sc-47
 Cross Section -14.85 To 5.356 %



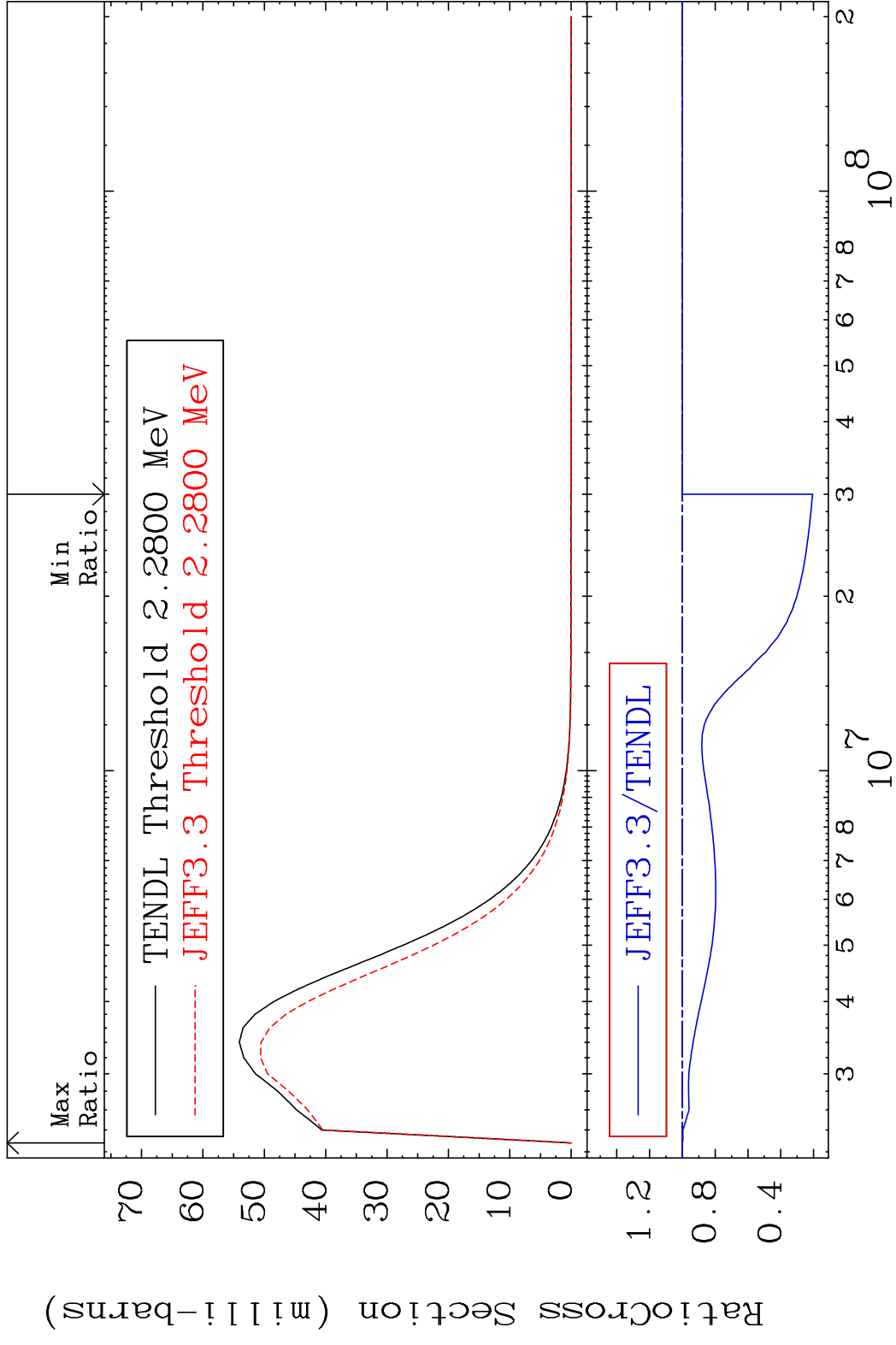
MAT 2131 MT= 68 (n, n') Level 21-Sc-47
 Cross Section -47.97 To 208.3 %



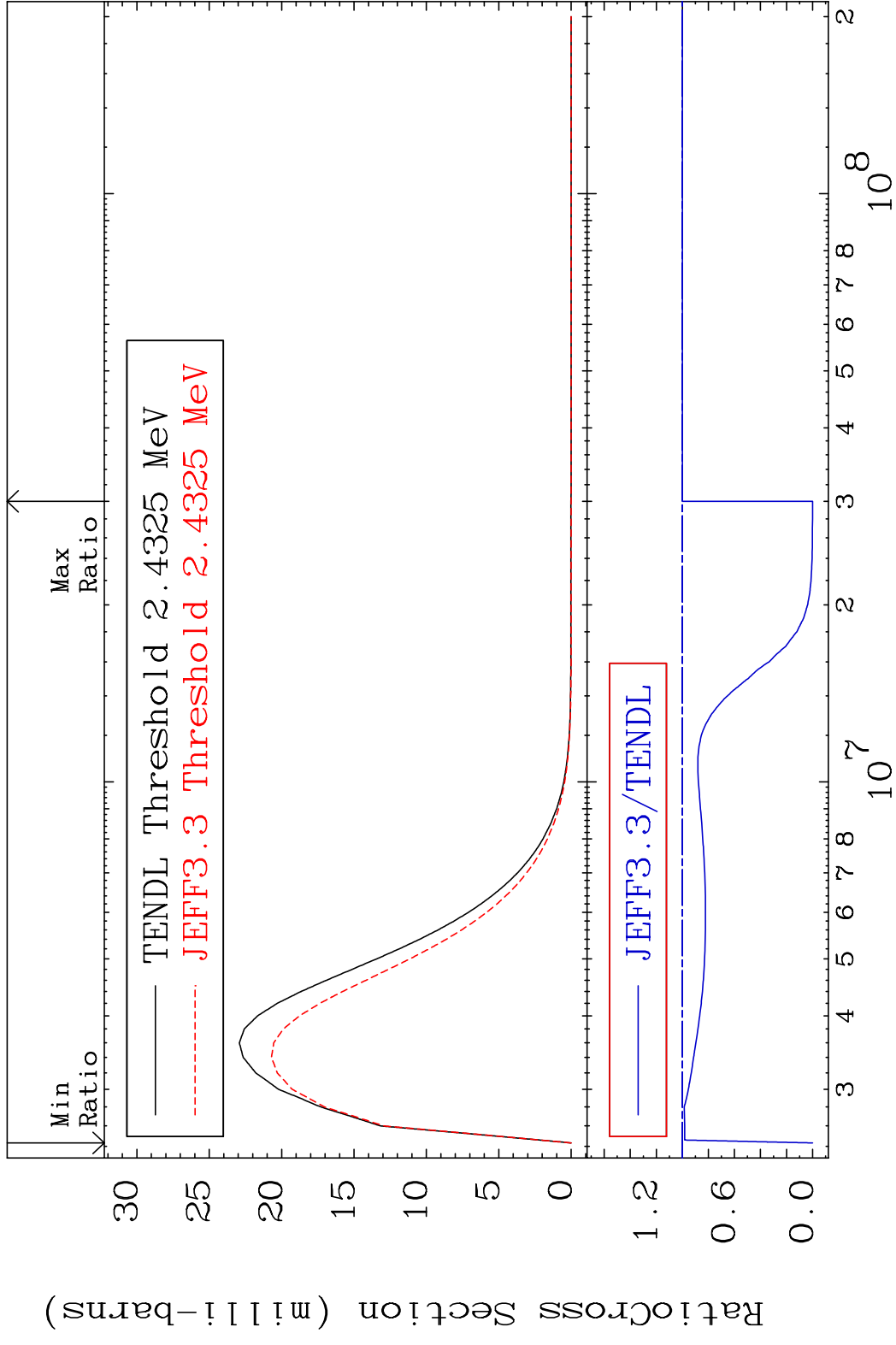
MAT 2131 MT= 69 (n, n') Level 21-Sc-47
 Cross Section -20.29 To 0.257 %



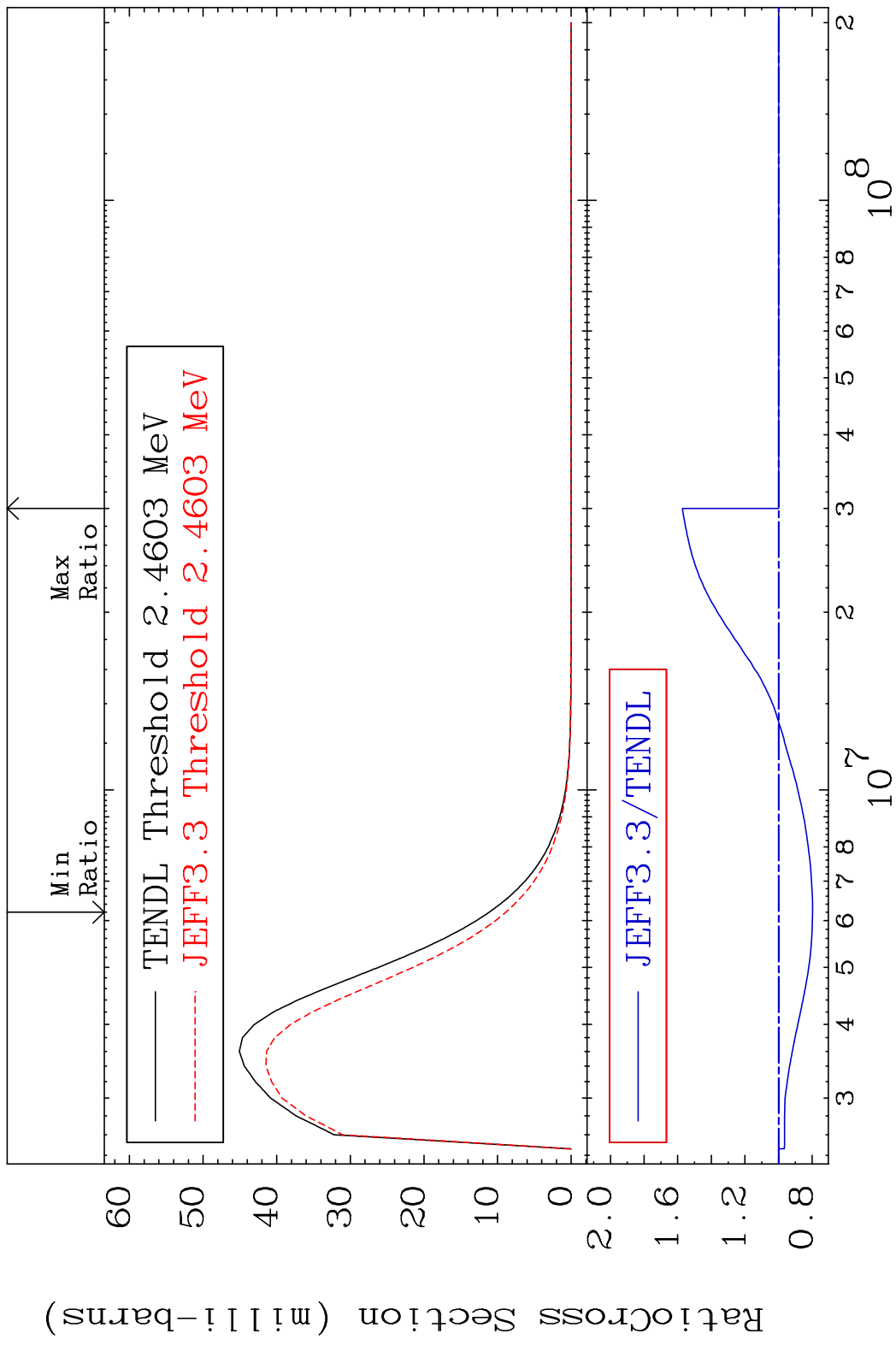
MAT 2131 MT= 70 (n, n') Level 21-Sc-47
 Cross Section -79.38 To 0.000 %



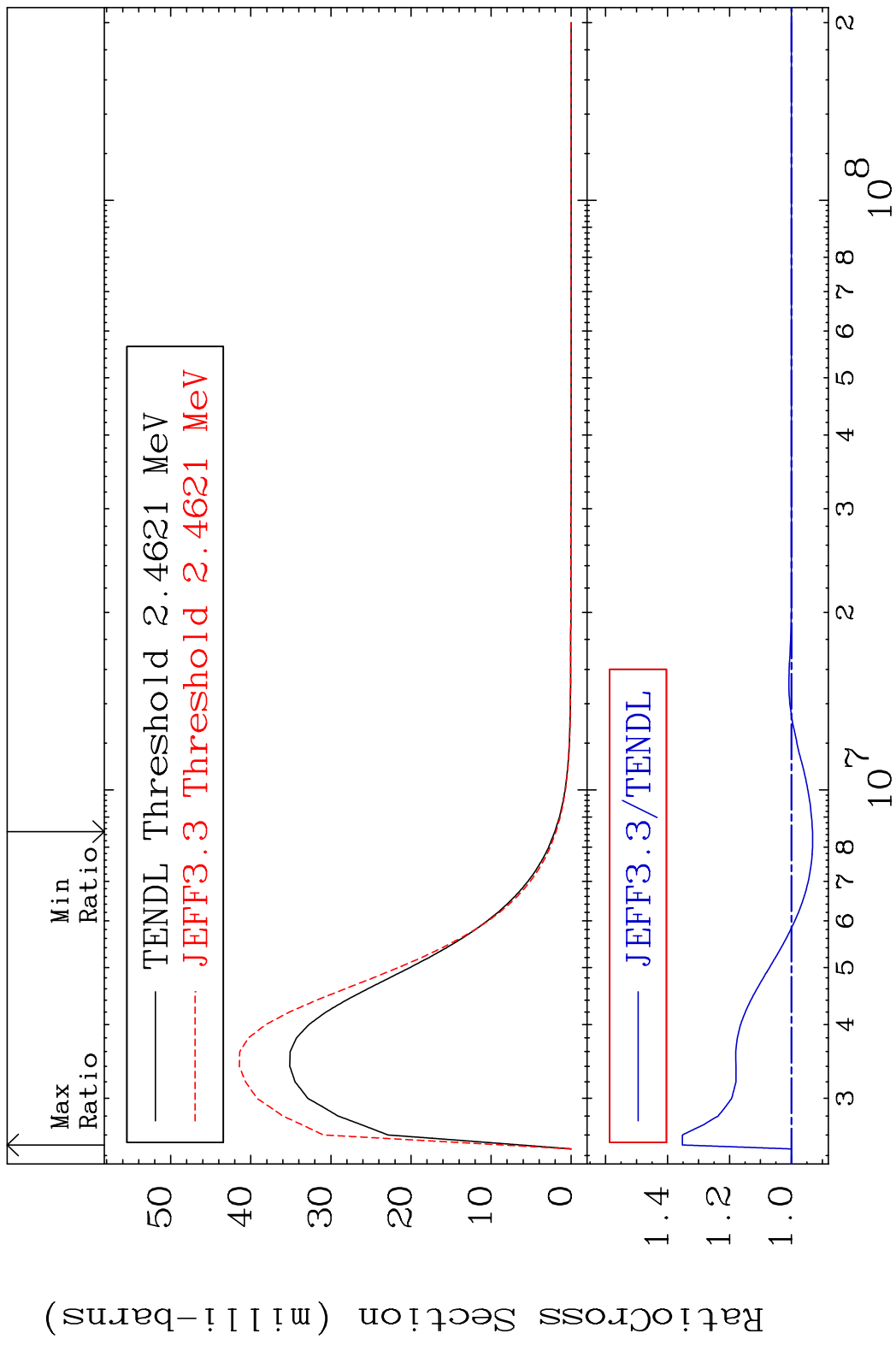
MAT 2131 MT= 71 (n, n') Level 21-Sc-47
 Cross Section -100.0 To 0.000 %



MAT 2131 MT= 72 (n, n') Level 21-Sc-47
 Cross Section -20.22 To 57.23 %

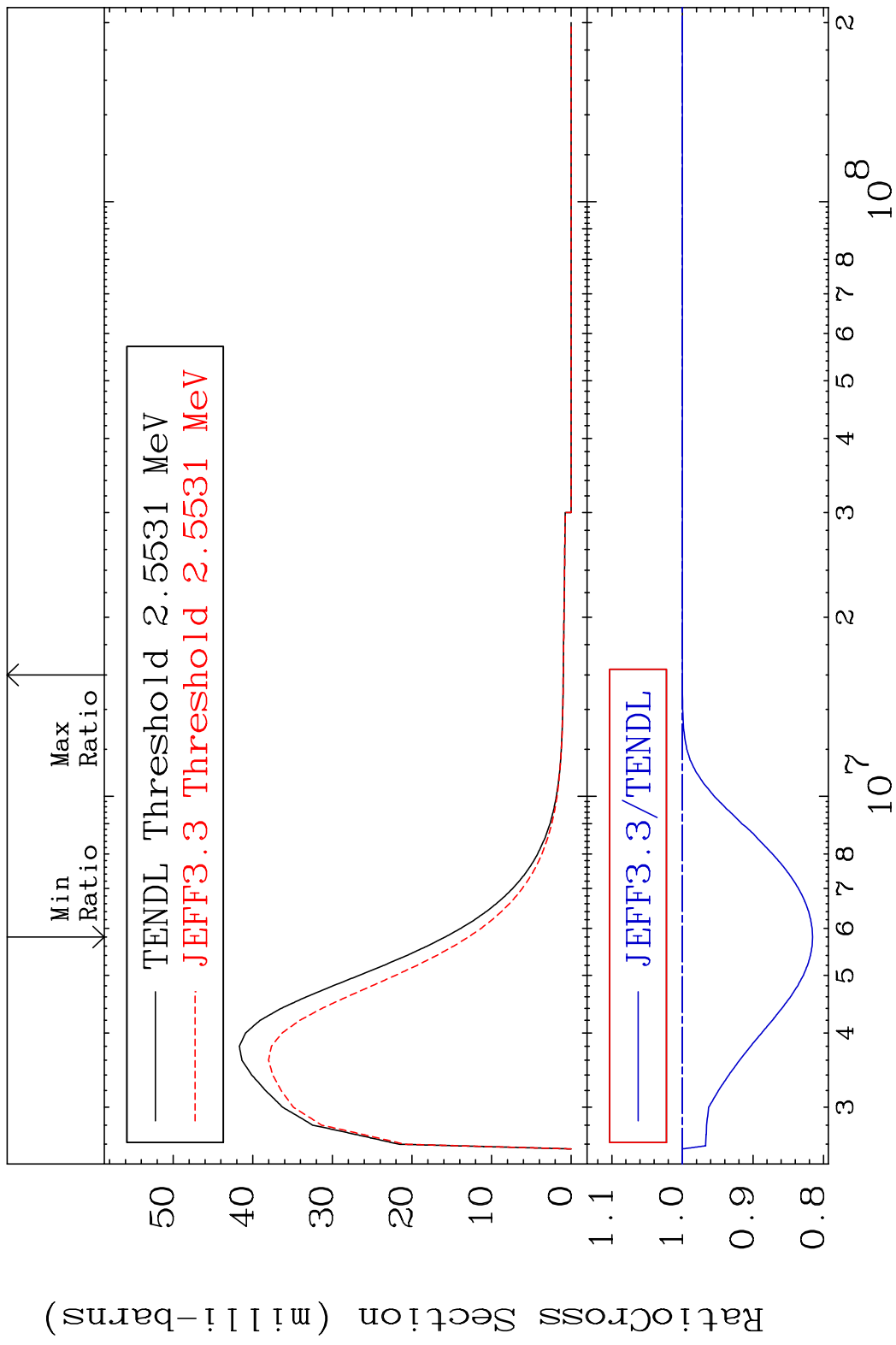


MAT 2131 MT= 73 (n, n') Level 21-Sc-47
 Cross Section -6.807 To 35.22 %

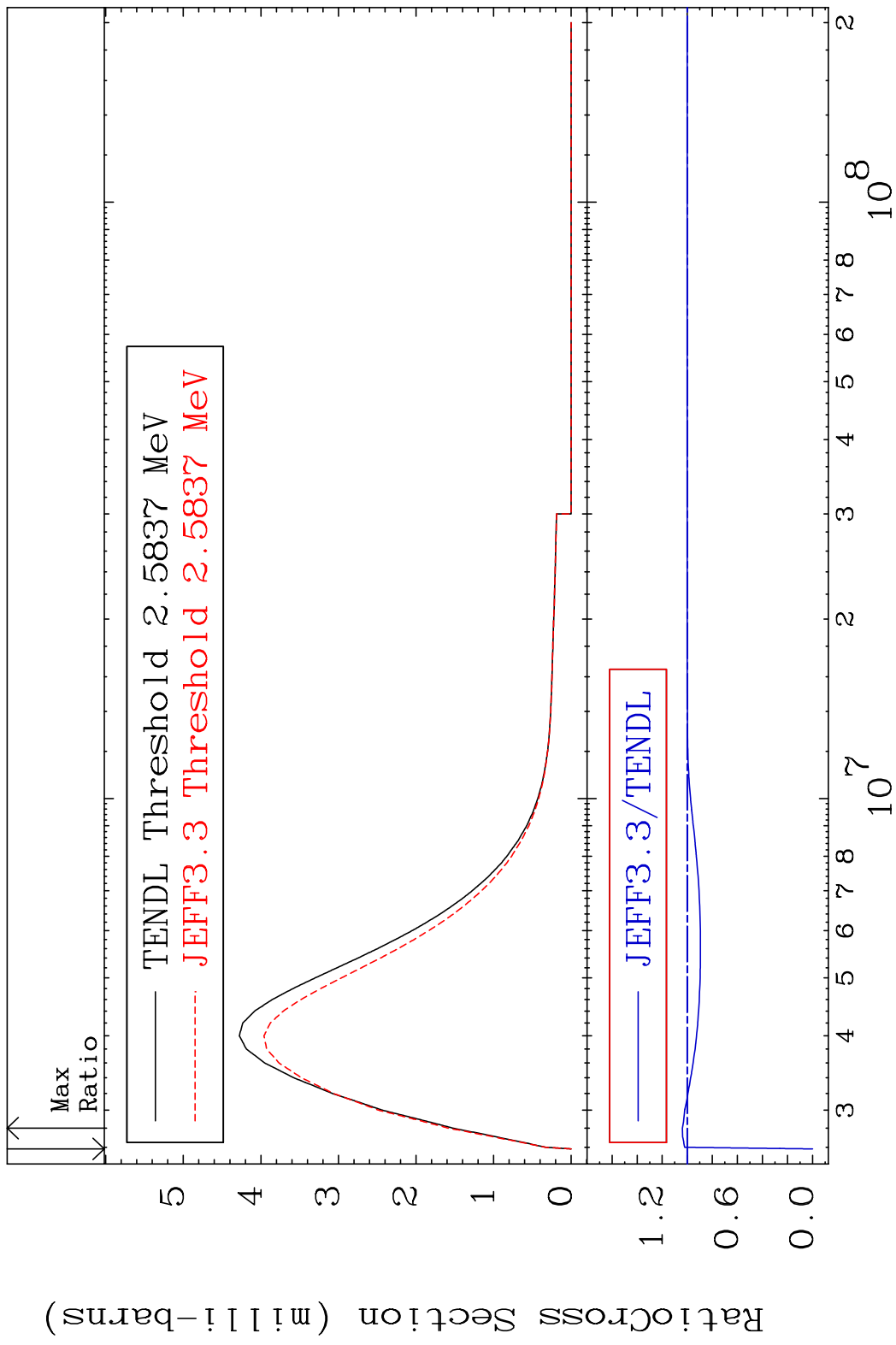


40 Incident Energy (eV) 21-Sc-47

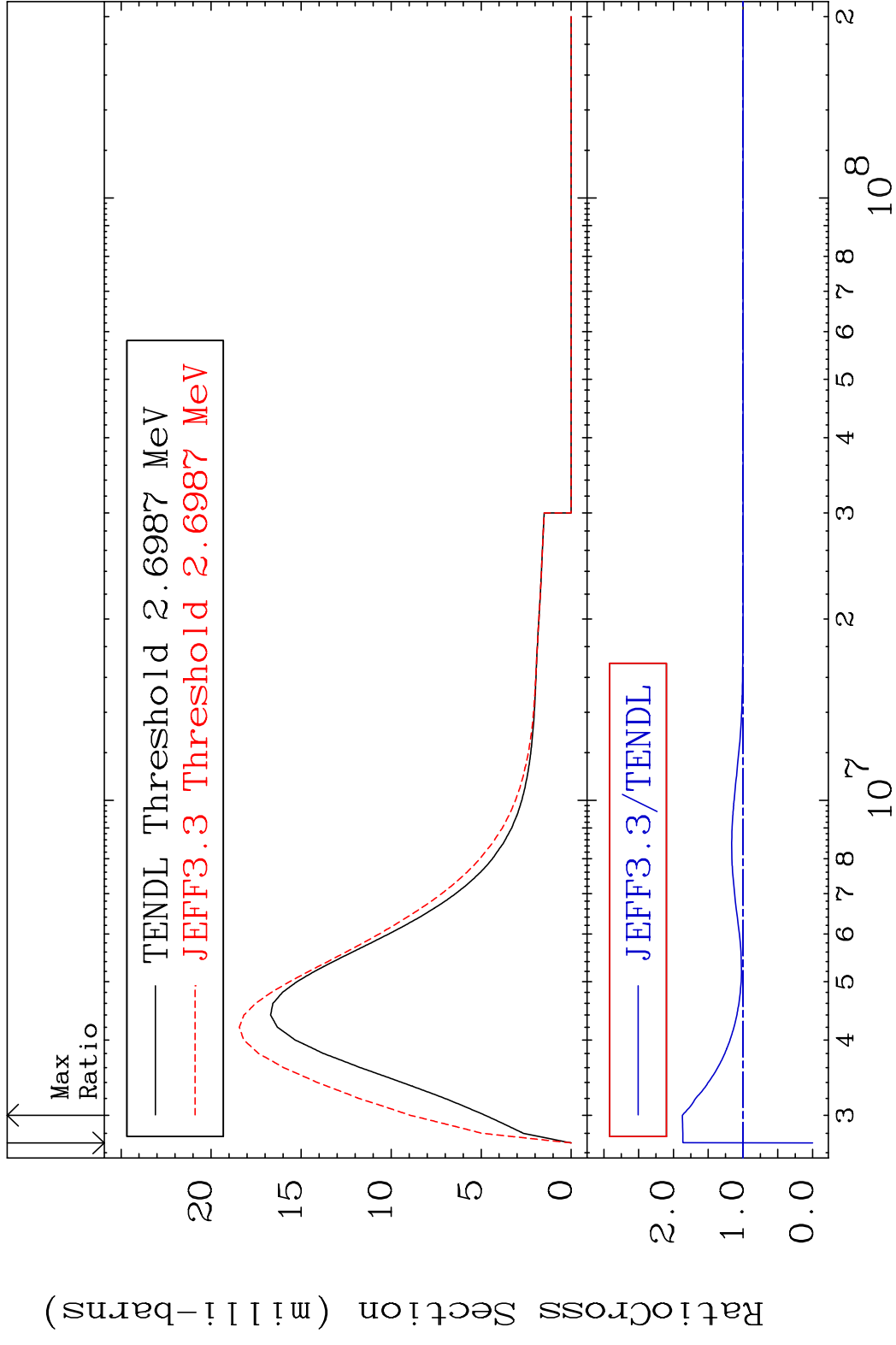
MAT 2131 MT= 74 (n, n') Level 21-Sc-47
 Cross Section -18.44 To 0.007 %



MAT 2131 MT= 75 (n, n') Level 21-Sc-47
 Cross Section -100.0 To 3.914 %



MAT 2131 MT= 76 (n,n') Level 21-Sc-47
 Cross Section -100.0 To 87.13 %

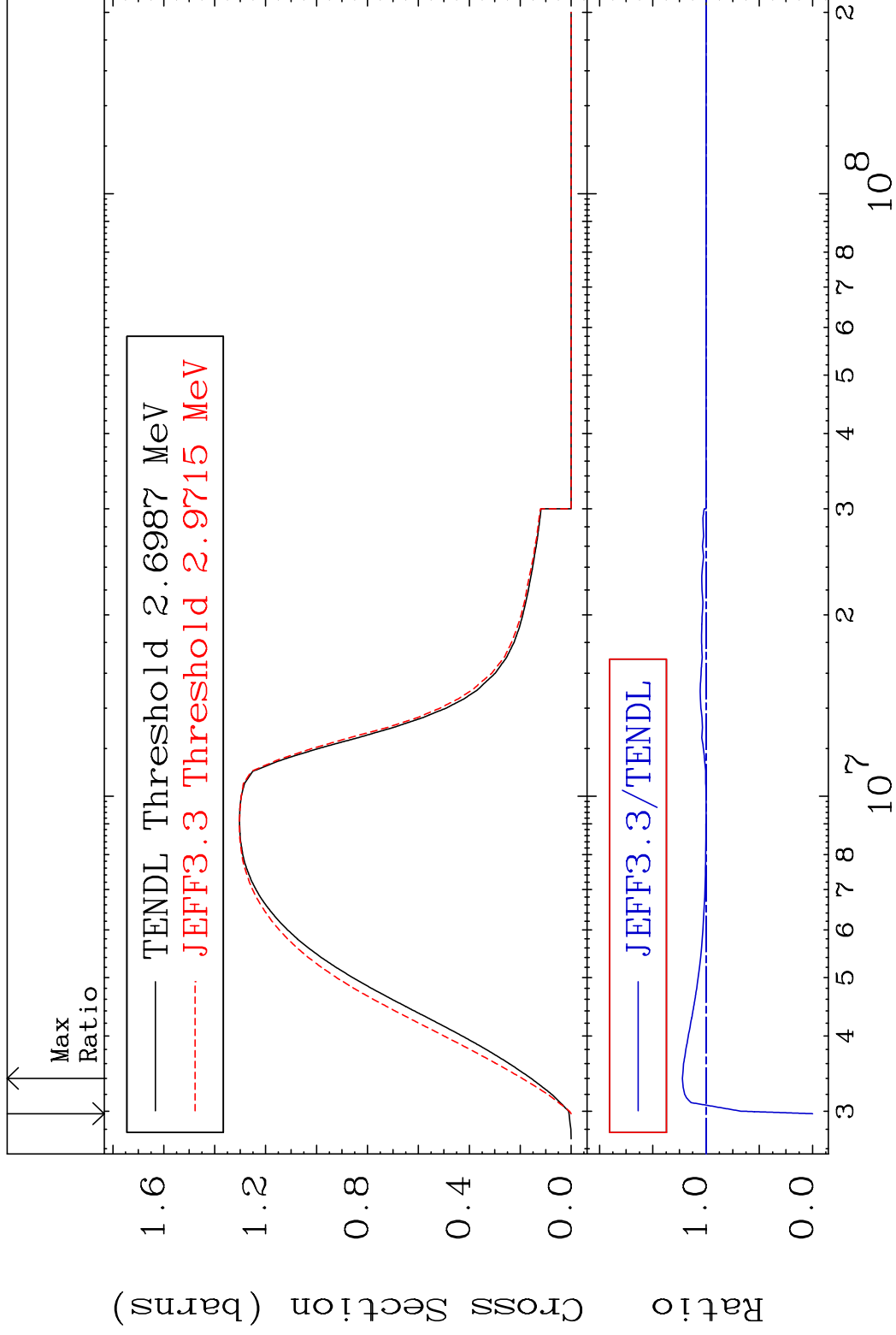


MAT 2131

(n, n') Continuum

21-Sc-47

Cross Section -100.0 To 22.25 %



44

Incident Energy (eV)

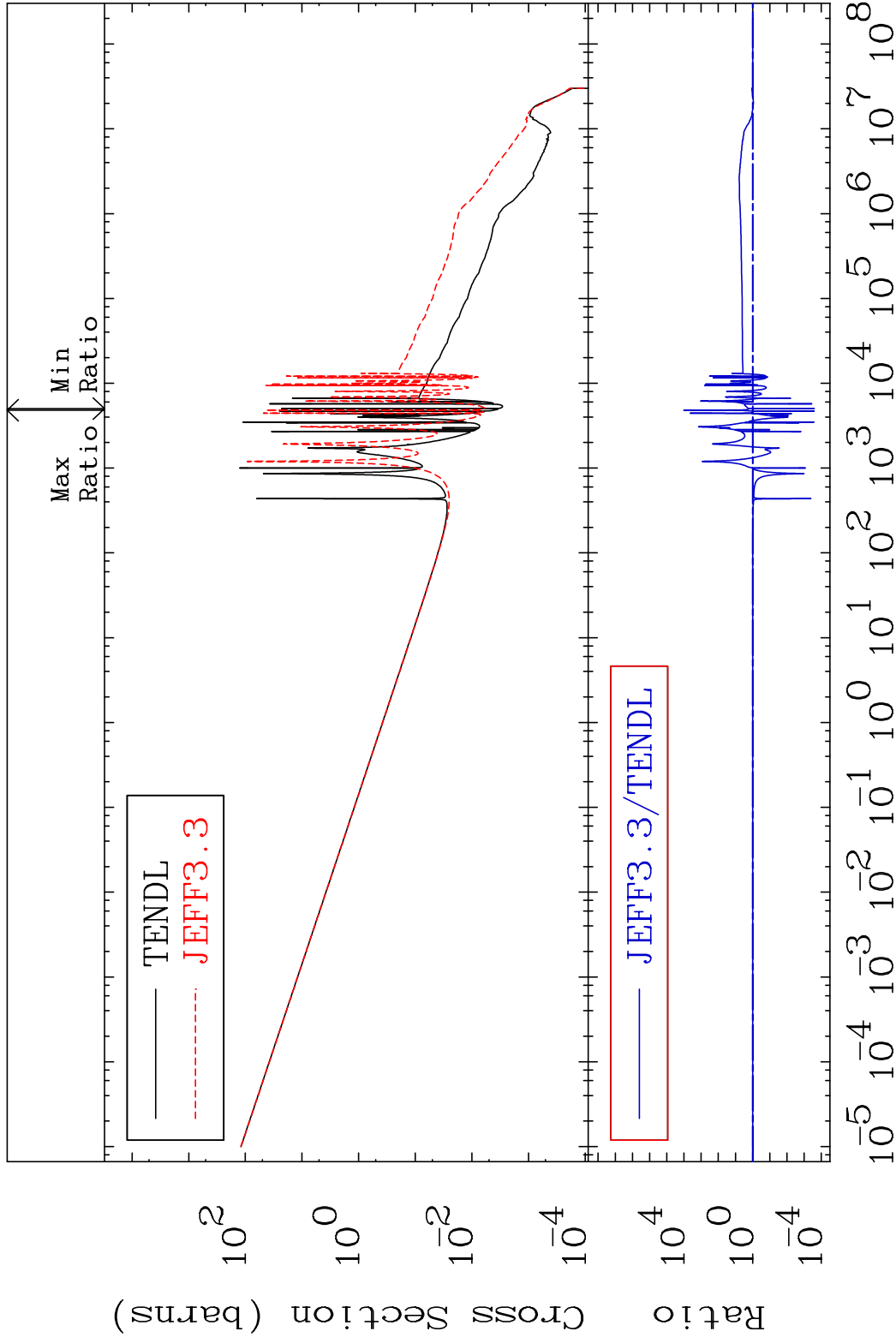
21-Sc-47

MAT 2131

(n, γ)

21-Sc-47

Cross Section -99.97 To 9999. %



45

Incident Energy (eV)

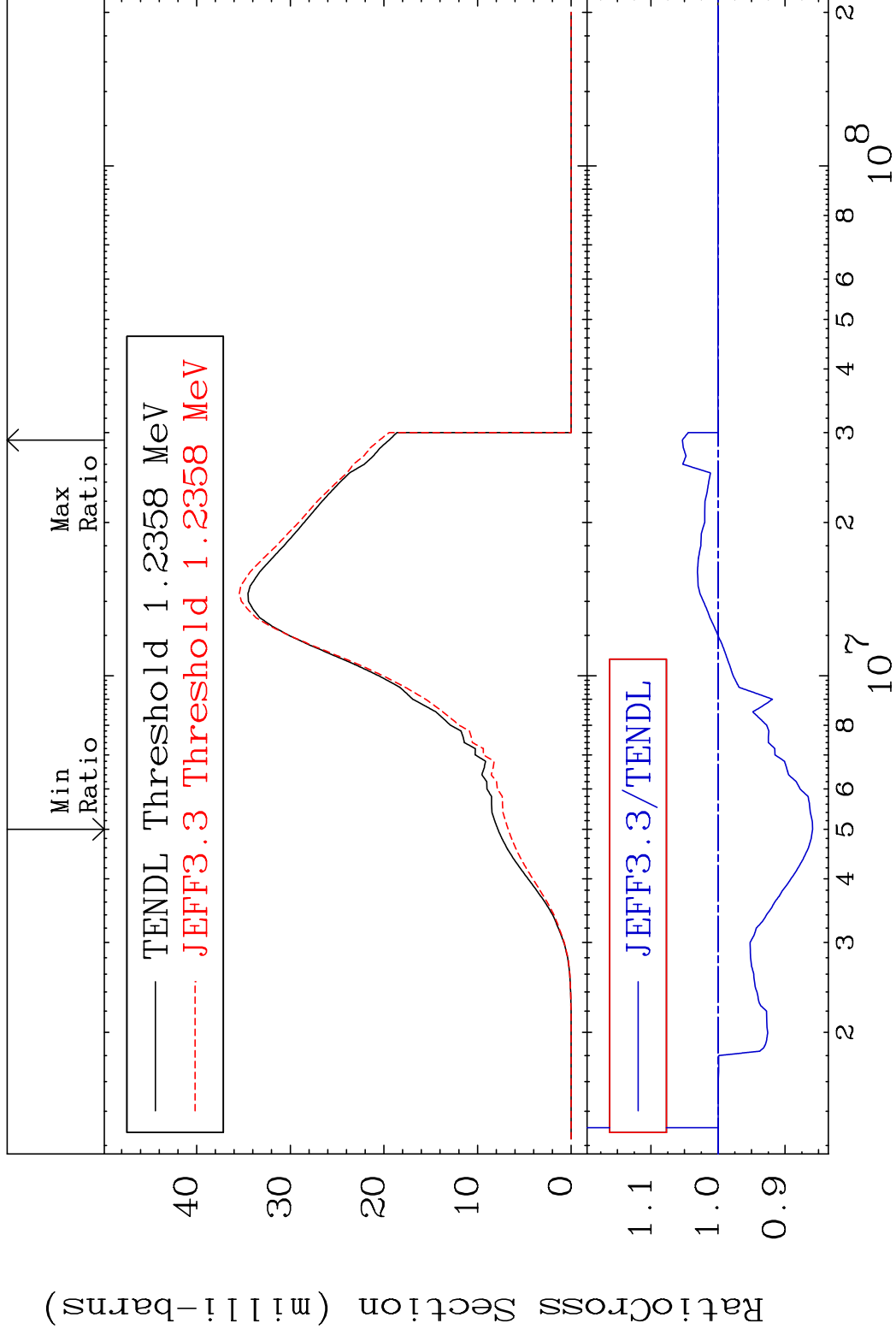
21-Sc-47

MAT 2131

(n, p)

21-Sc-47

Cross Section -14.10 To 5.325 %



46

Incident Energy (eV)

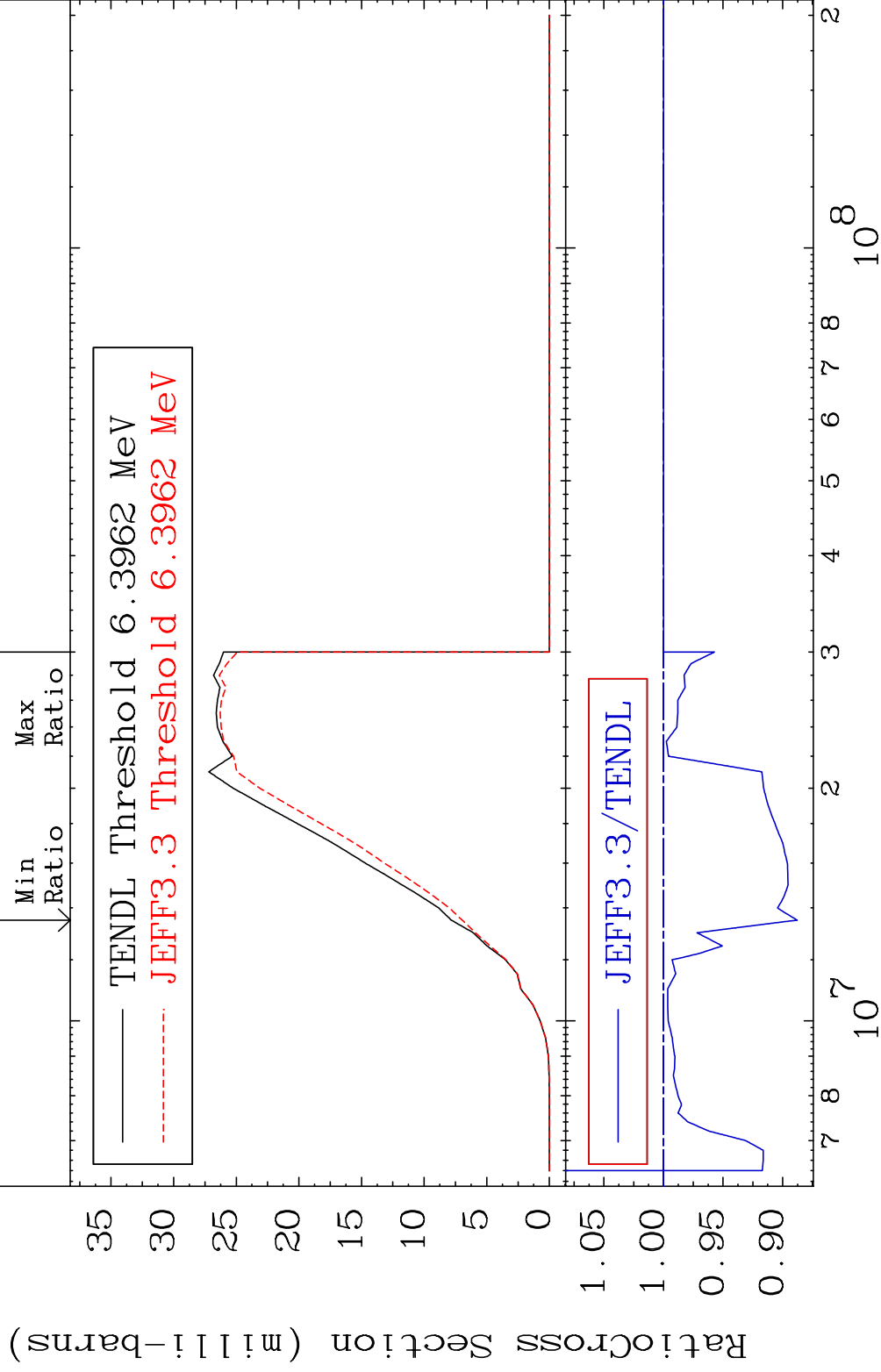
21-Sc-47

MAT 2131

(n, d)

21-Sc-47

Cross Section -11.21 To 0.000 %



47

Incident Energy (eV)

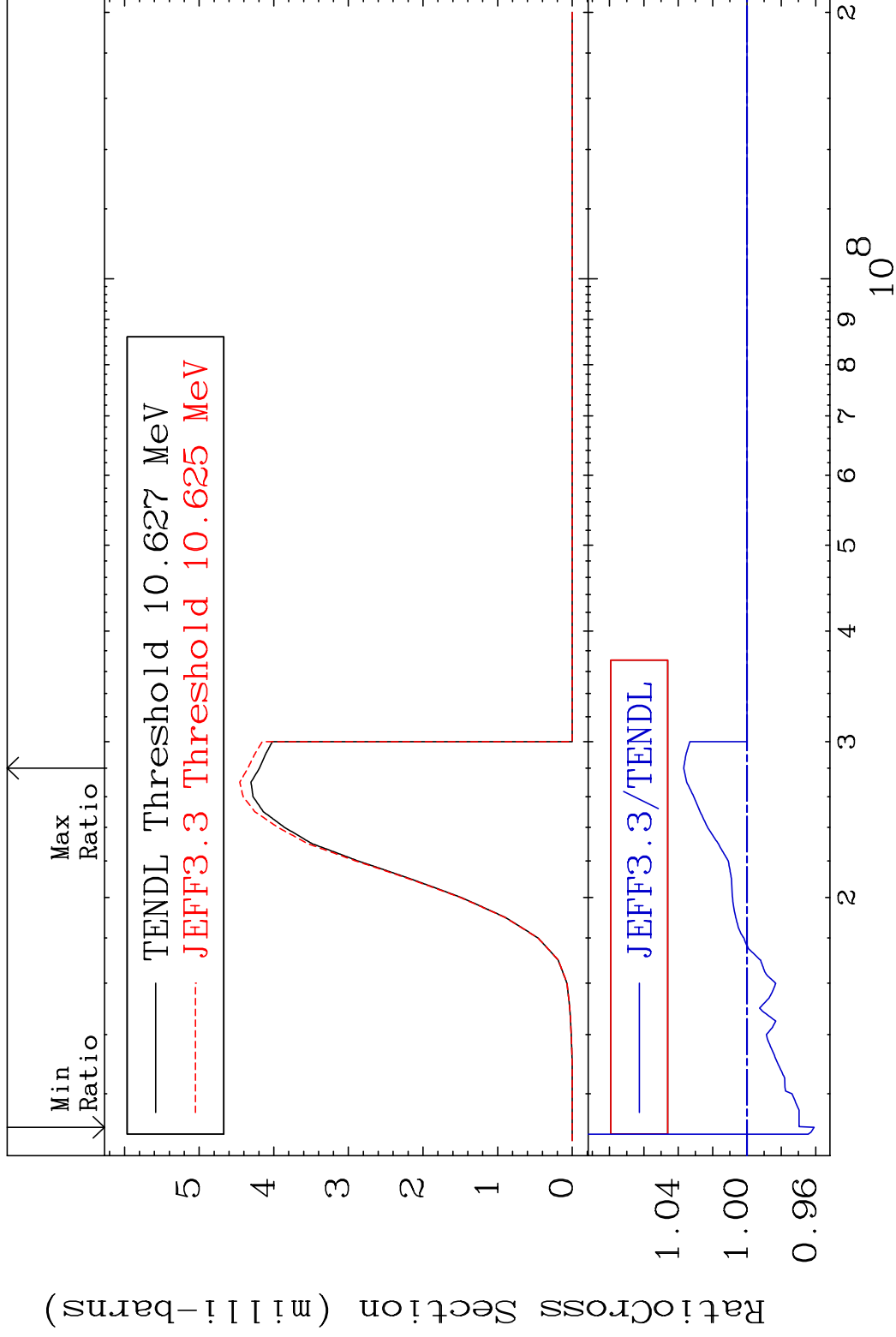
21-Sc-47

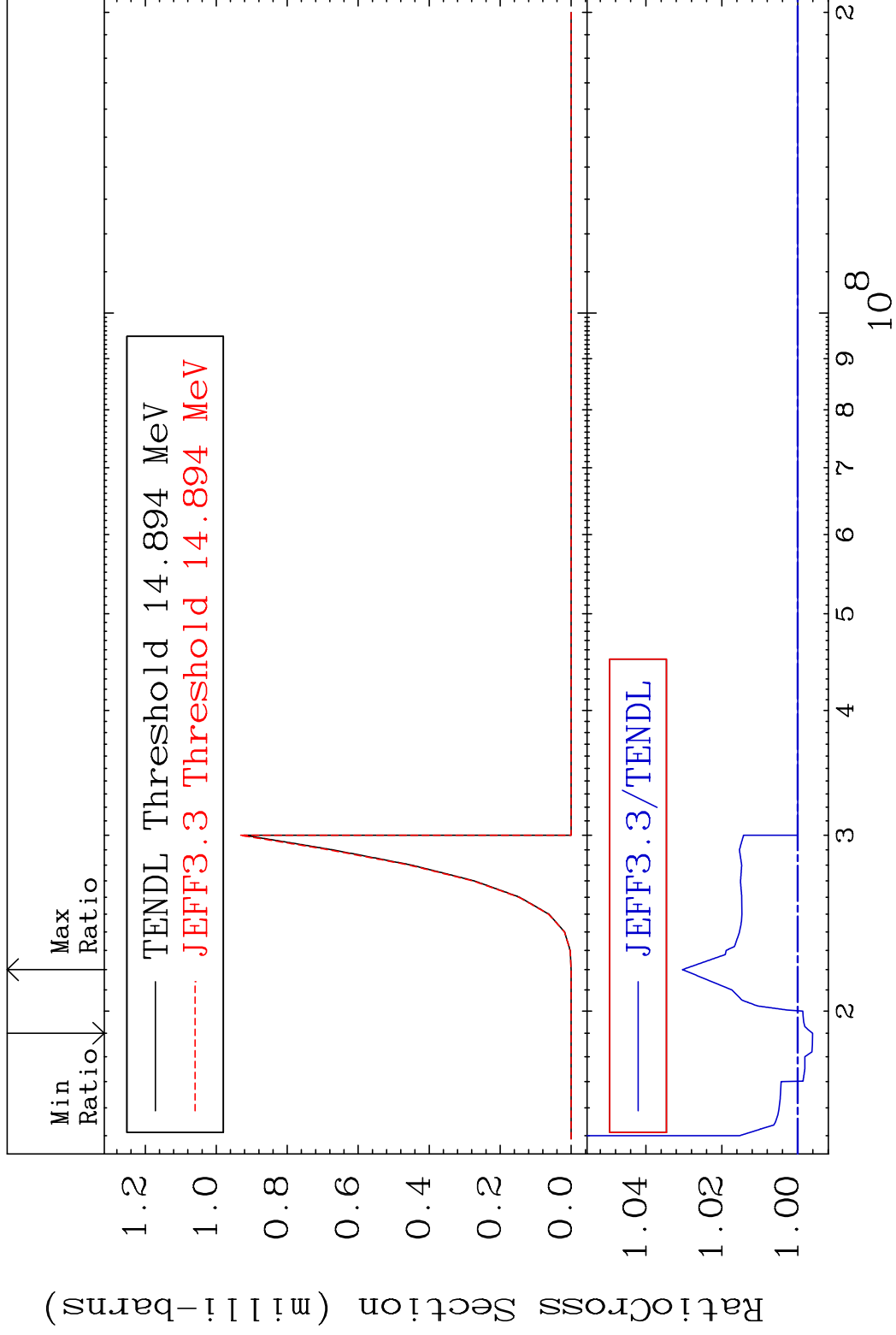
MAT 2131

(n, t)

21-Sc-47

Cross Section -3.908 To 3.684 %



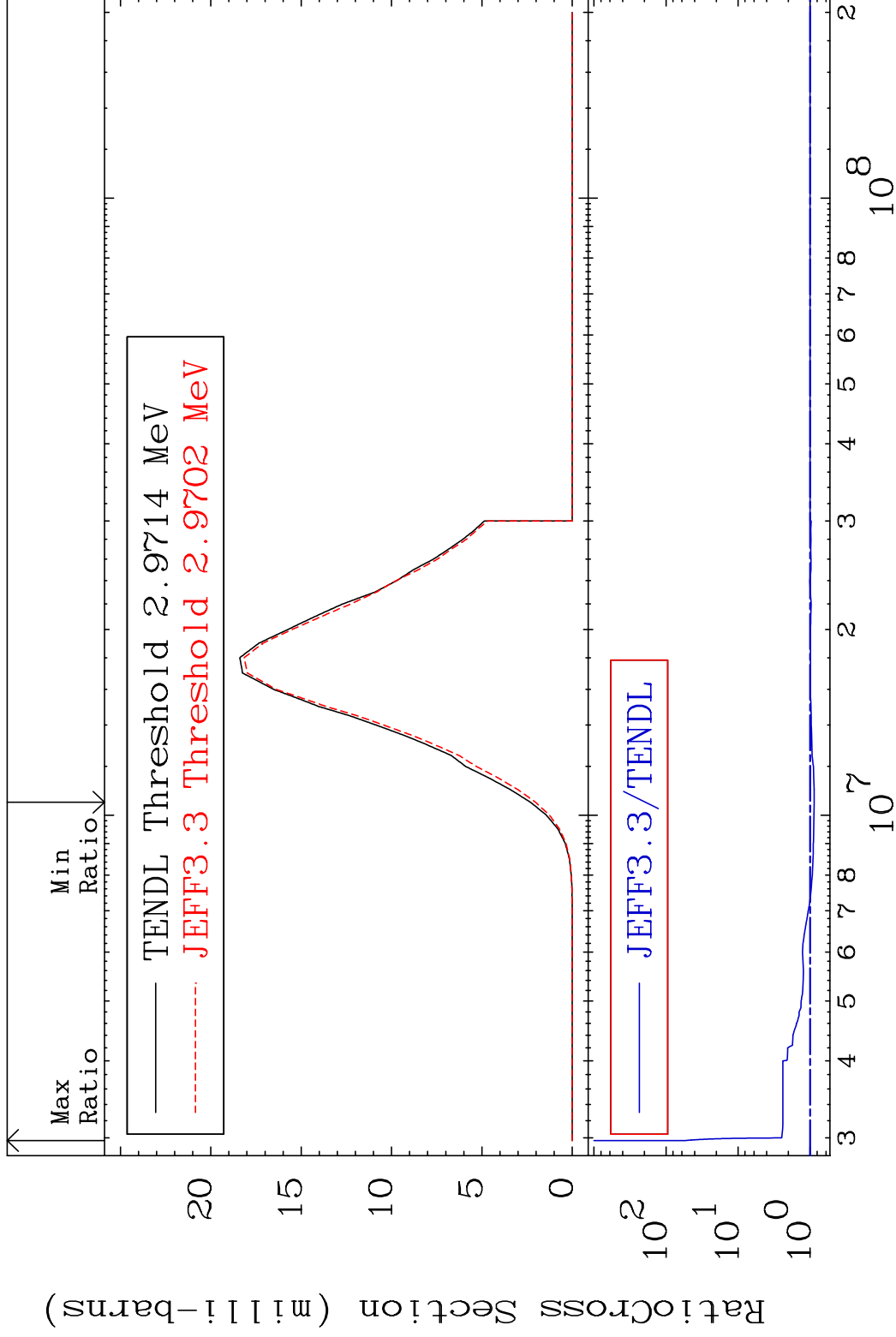


MAT 2131

(n, α)

21-Sc-47

Cross Section -12.18 To 5586. %

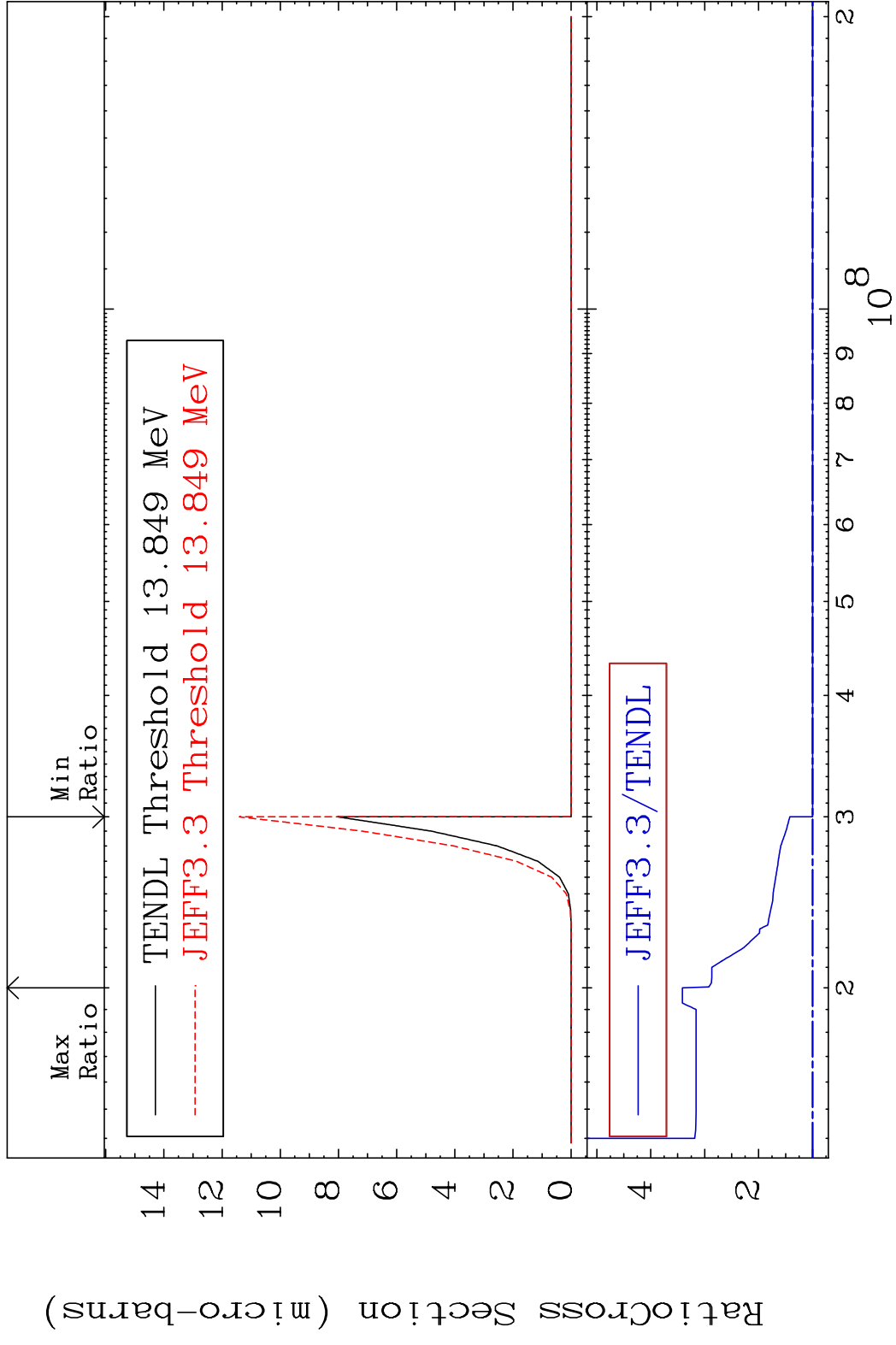


50

Incident Energy (eV)

21-Sc-47

MAT 2131 (n,2α) 21-Sc-47
 Cross Section 0.000 To 241.4 %

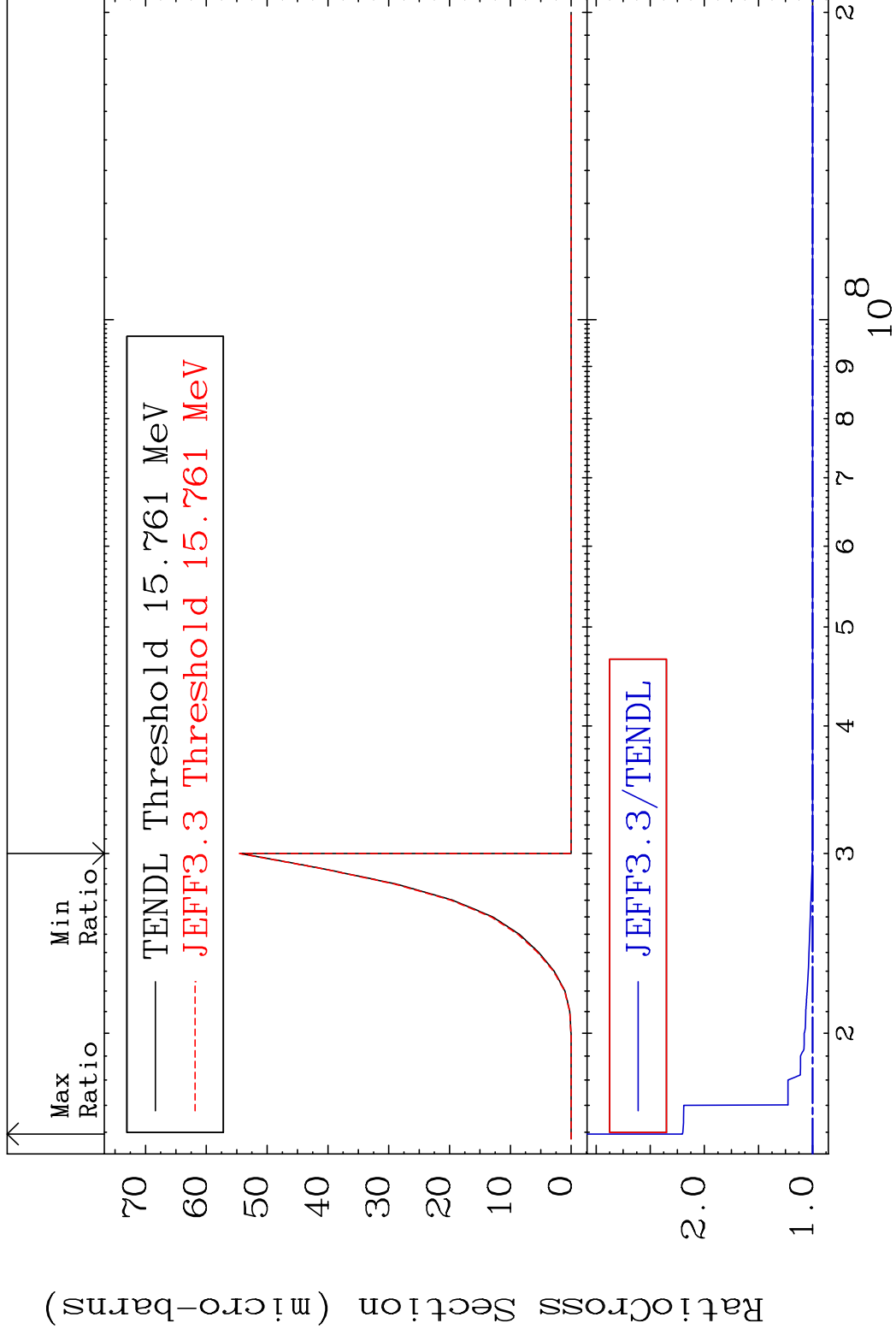


MAT 2131

(n,2p)

21-Sc-47

Cross Section 0.000 To 120.3 %



52

Incident Energy (eV)

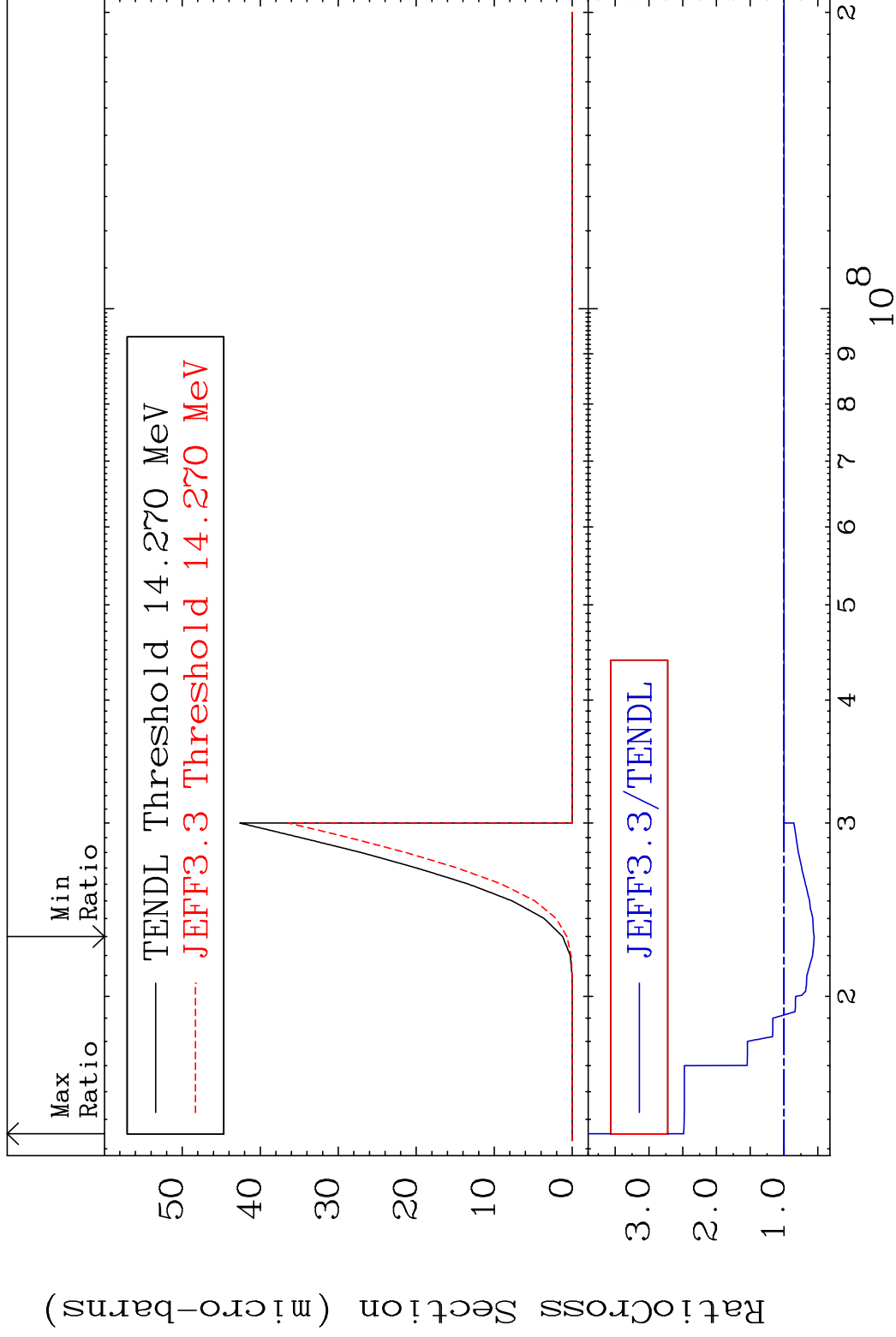
21-Sc-47

MAT 2131

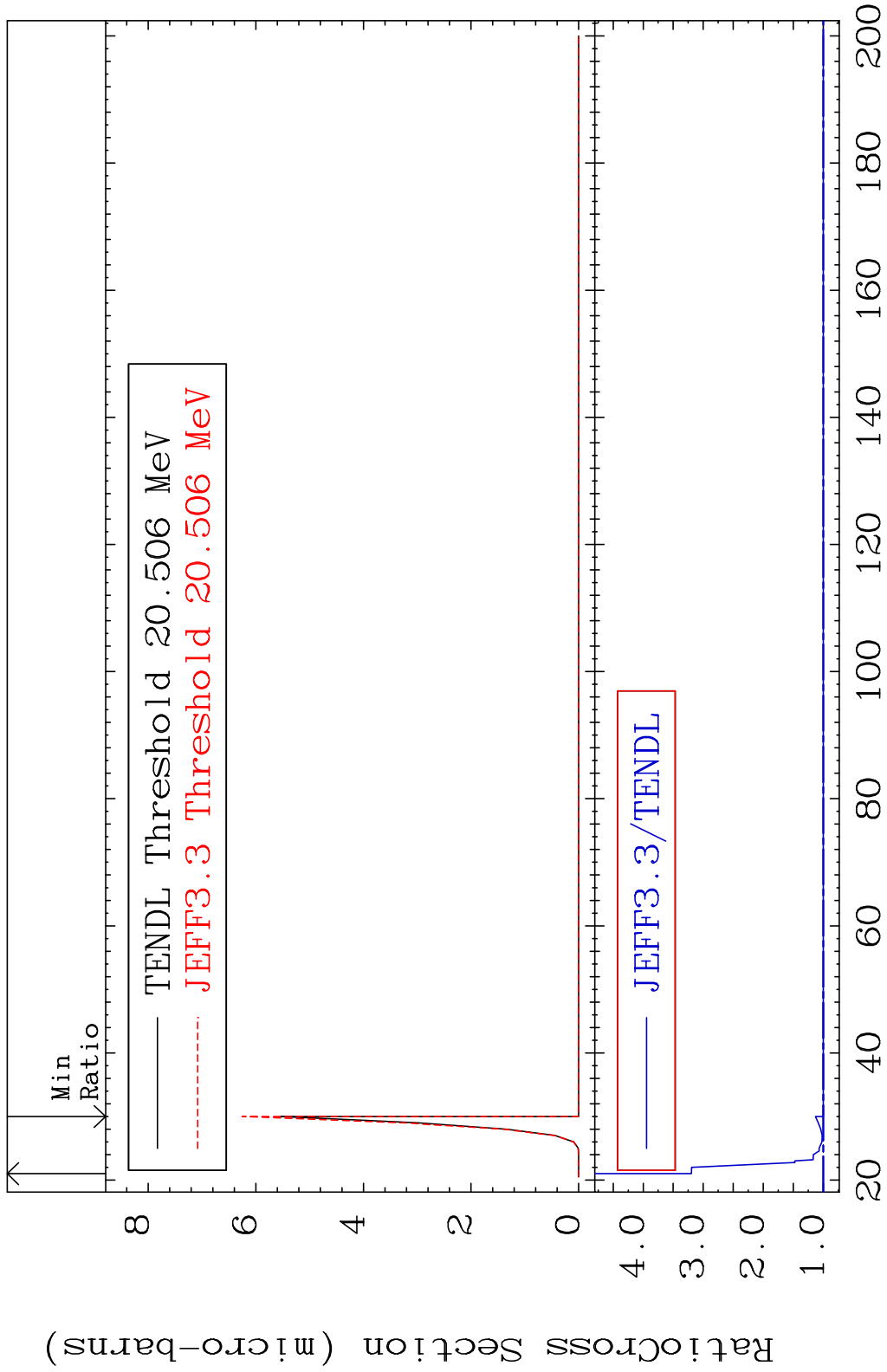
(n,p) α

21-Sc-47

Cross Section -44.50 To 148.6 %



MAT 2131 (n,p) d 21-Sc-47
 Cross Section 0.000 To 219.8 %

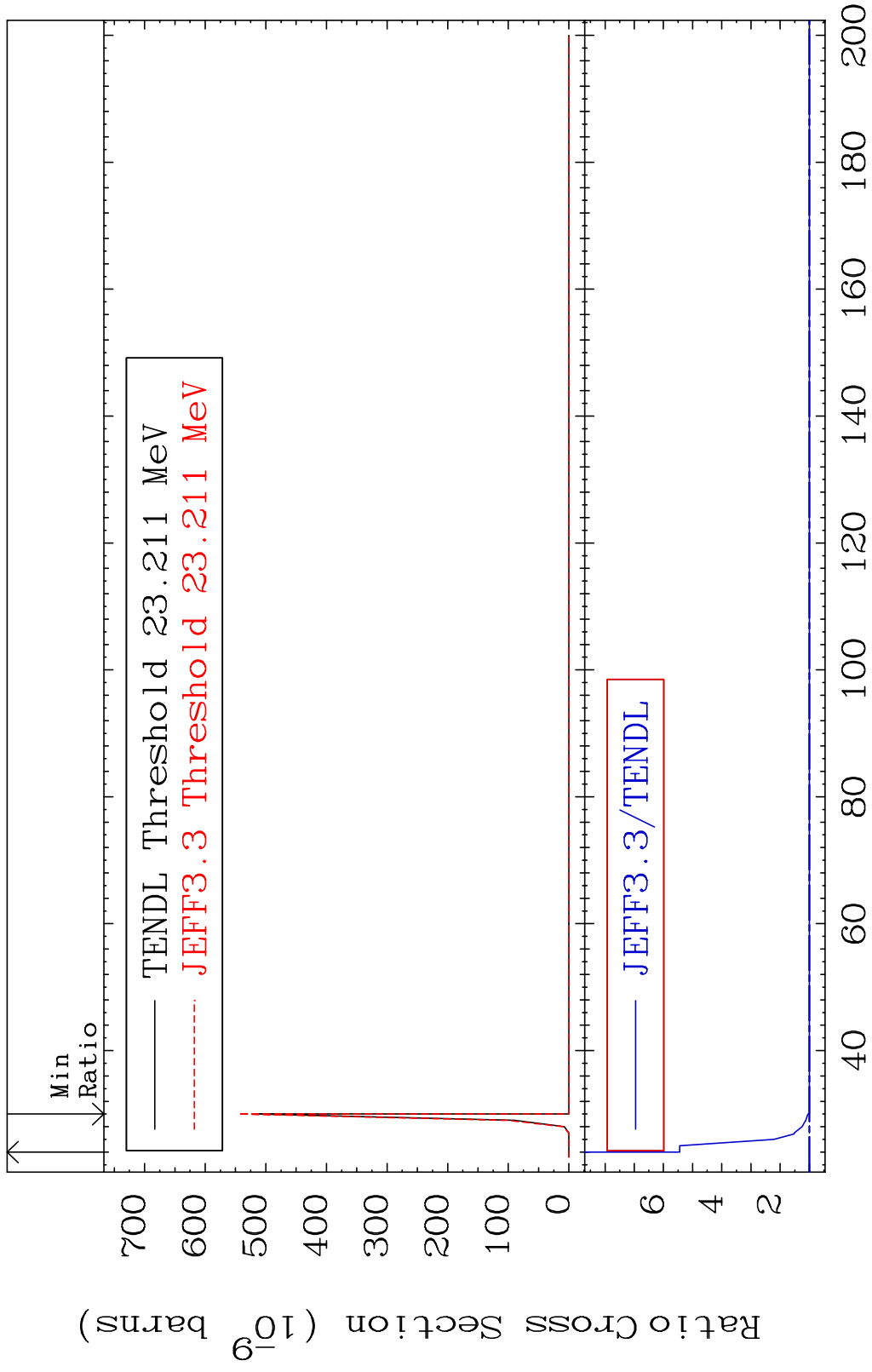


MAT 2131

(n,p) t

21-Sc-47

Cross Section 0.000 To 444.5 %



55

Incident Energy (MeV)

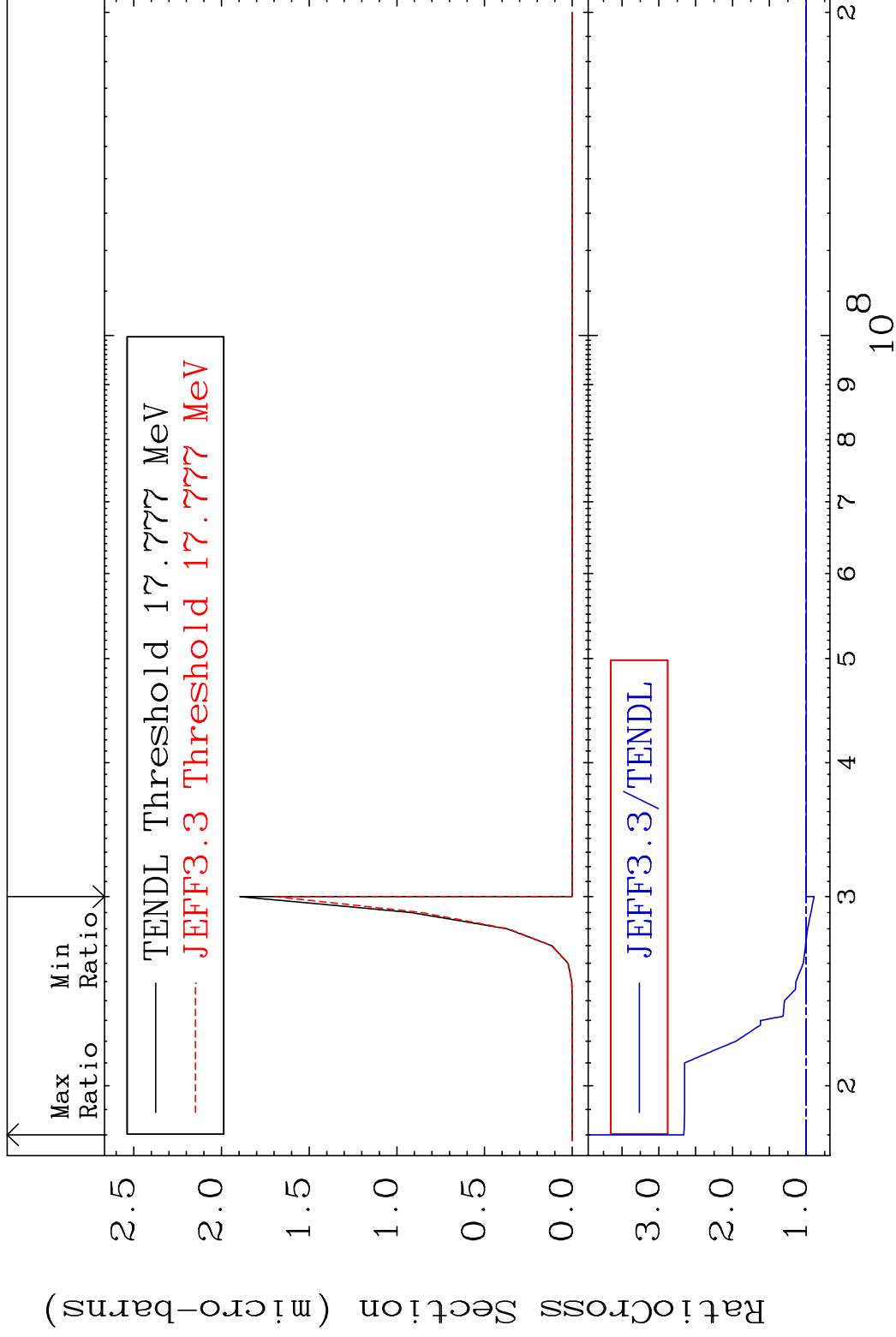
21-Sc-47

MAT 2131

(n,d) α

21-Sc-47

Cross Section -10.69 To 166.3 %



56

Incident Energy (eV)

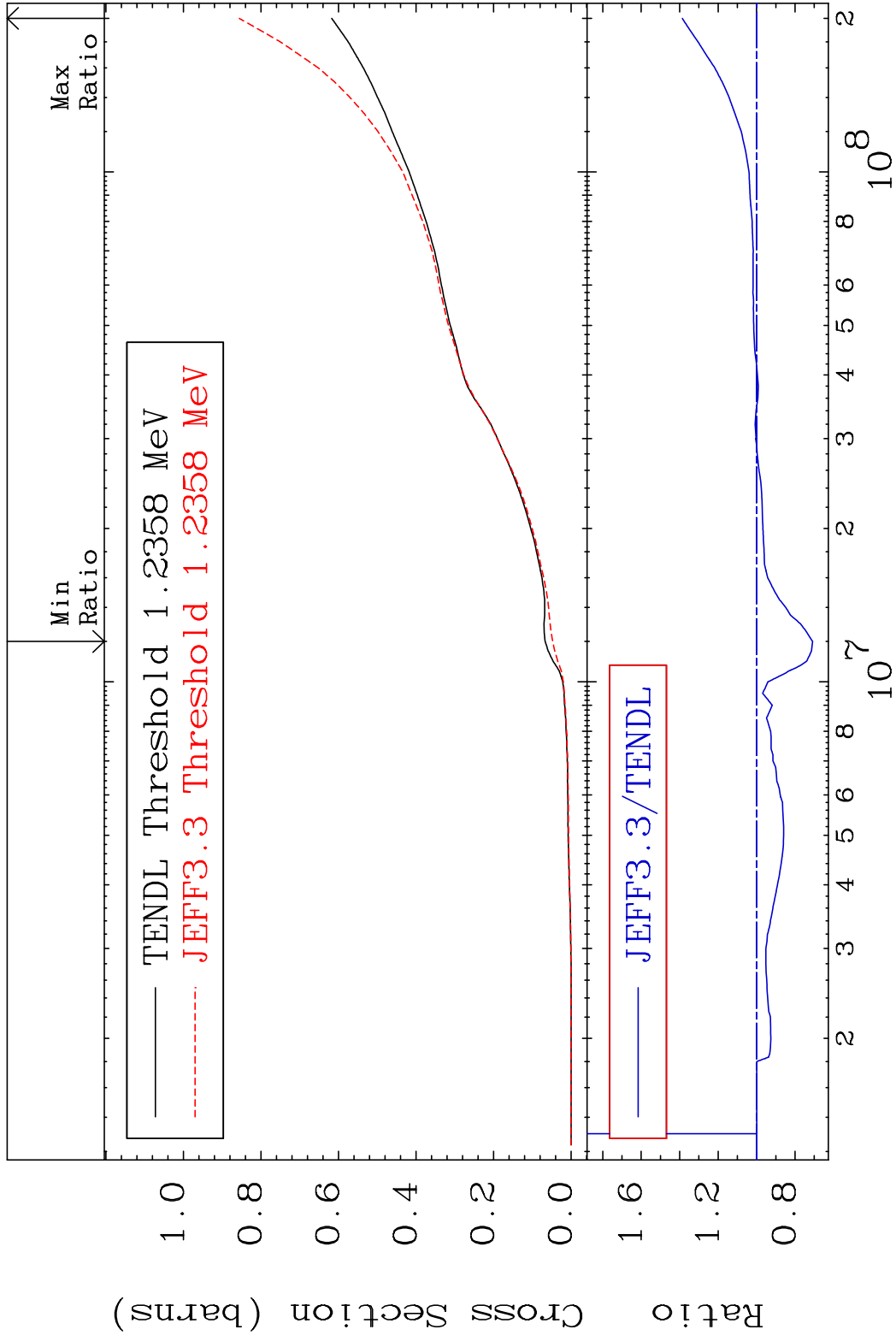
21-Sc-47

MAT 2131

Hydrogen Production

21-Sc-47

Cross Section -29.10 To 38.59 %

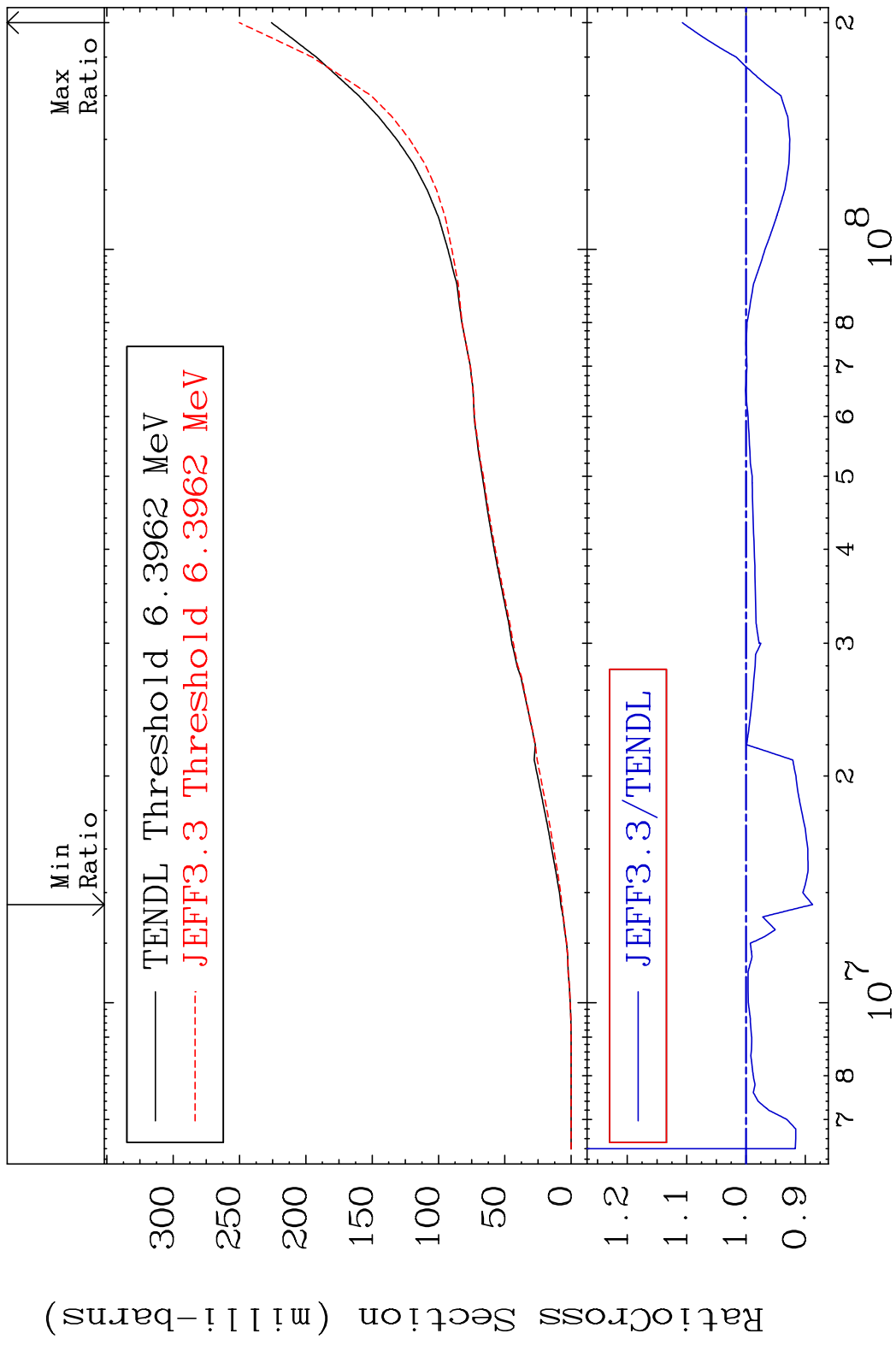


57

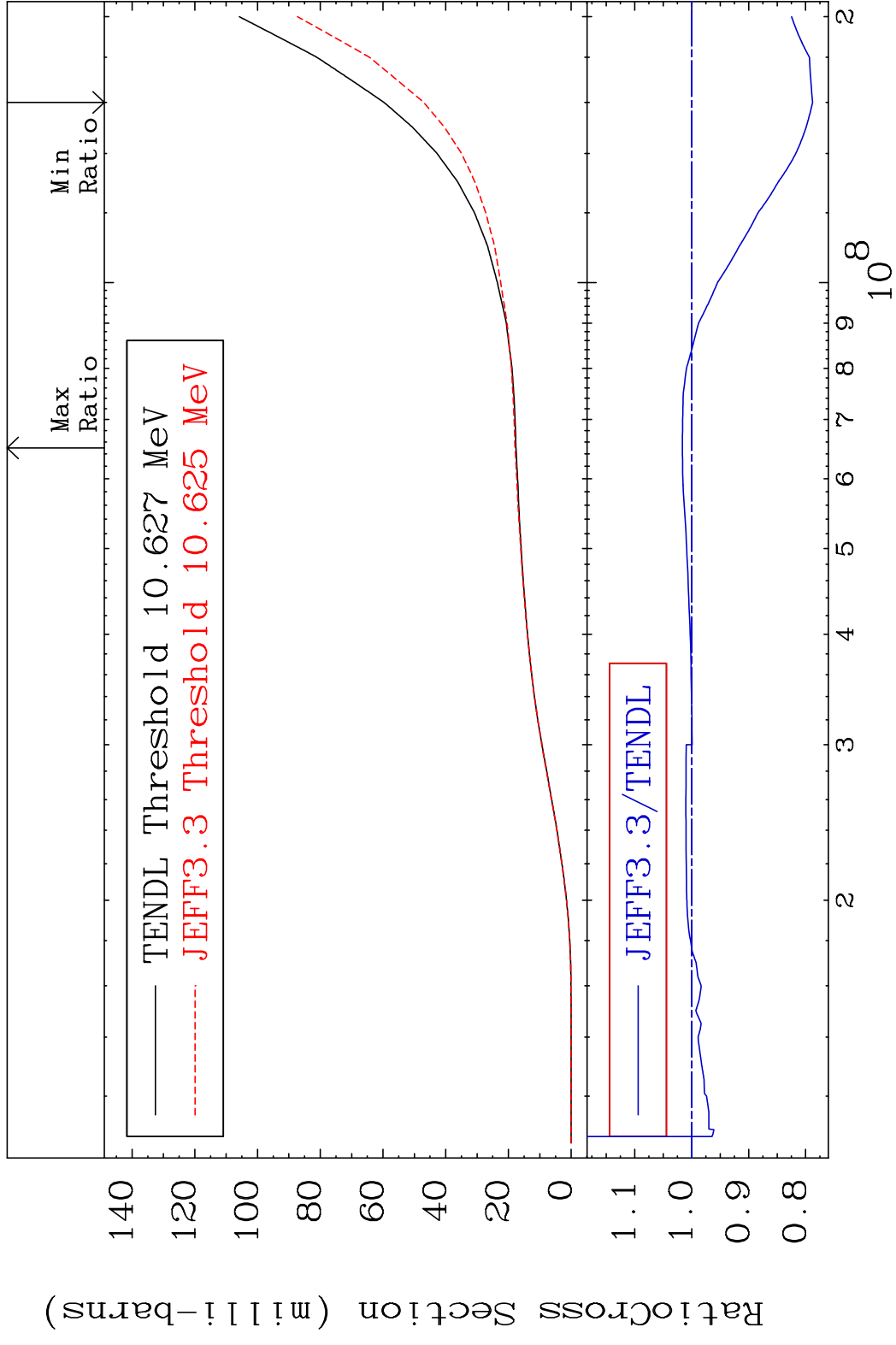
Incident Energy (eV)

21-Sc-47

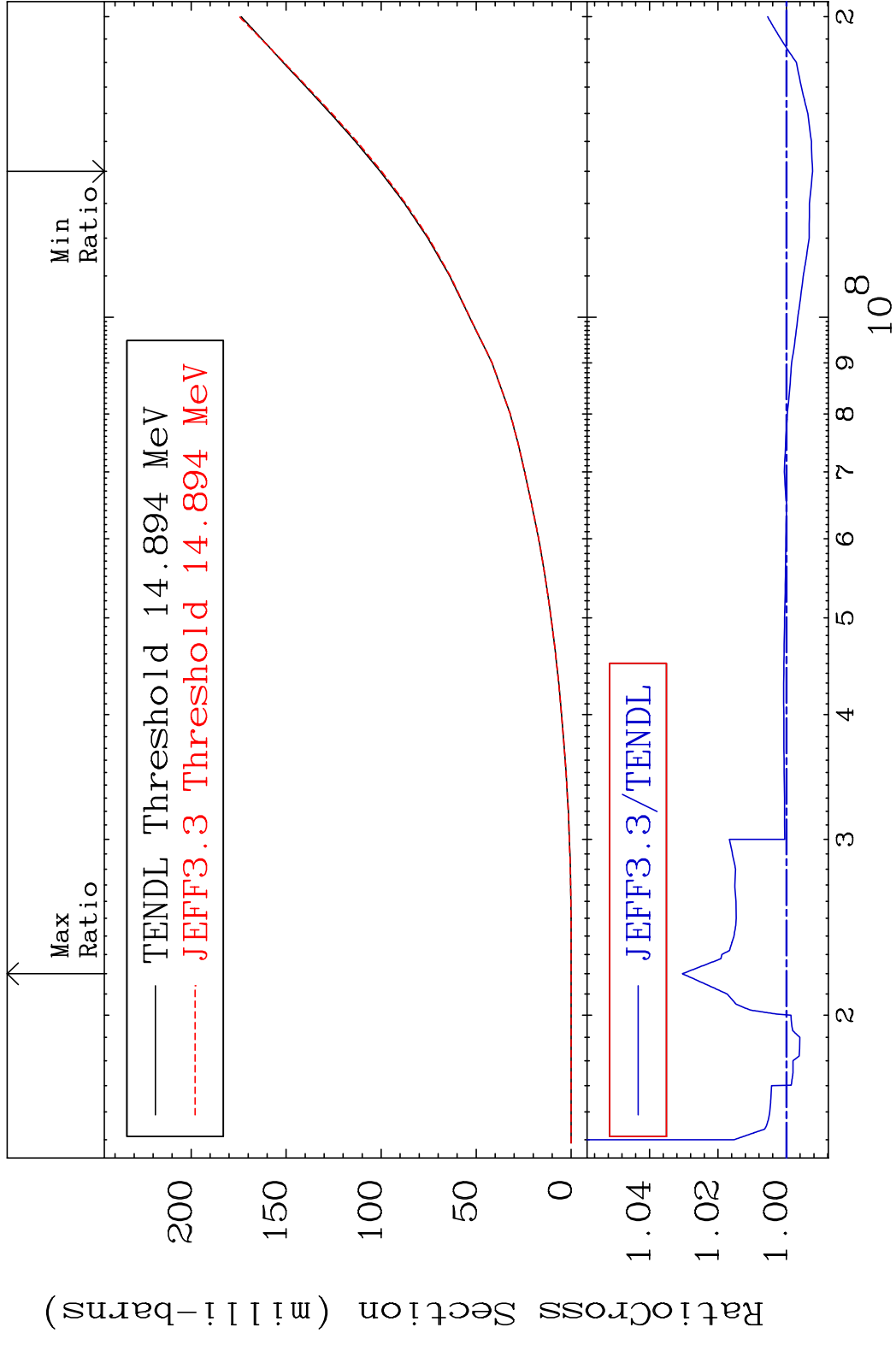
MAT 2131 Deuterium Production 21-Sc-47
 Cross Section -11.21 To 10.72 %



58 Incident Energy (eV) 21-Sc-47



MAT 2131 He-3 Production 21-Sc-47
 Cross Section -0.762 To 3.039 %

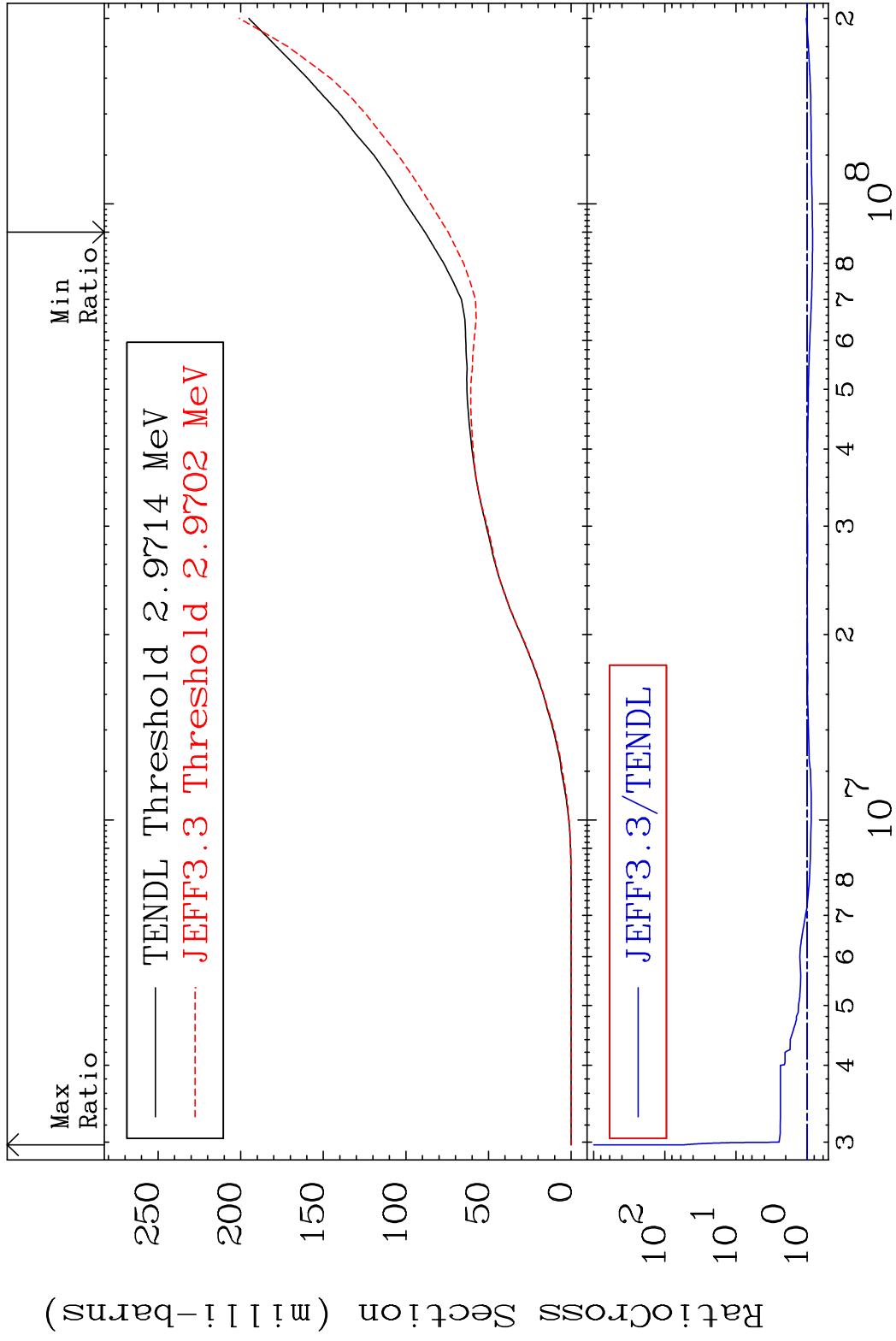


MAT 2131

He-4 Production

21-Sc-47

Cross Section -15.85 To 5586. %

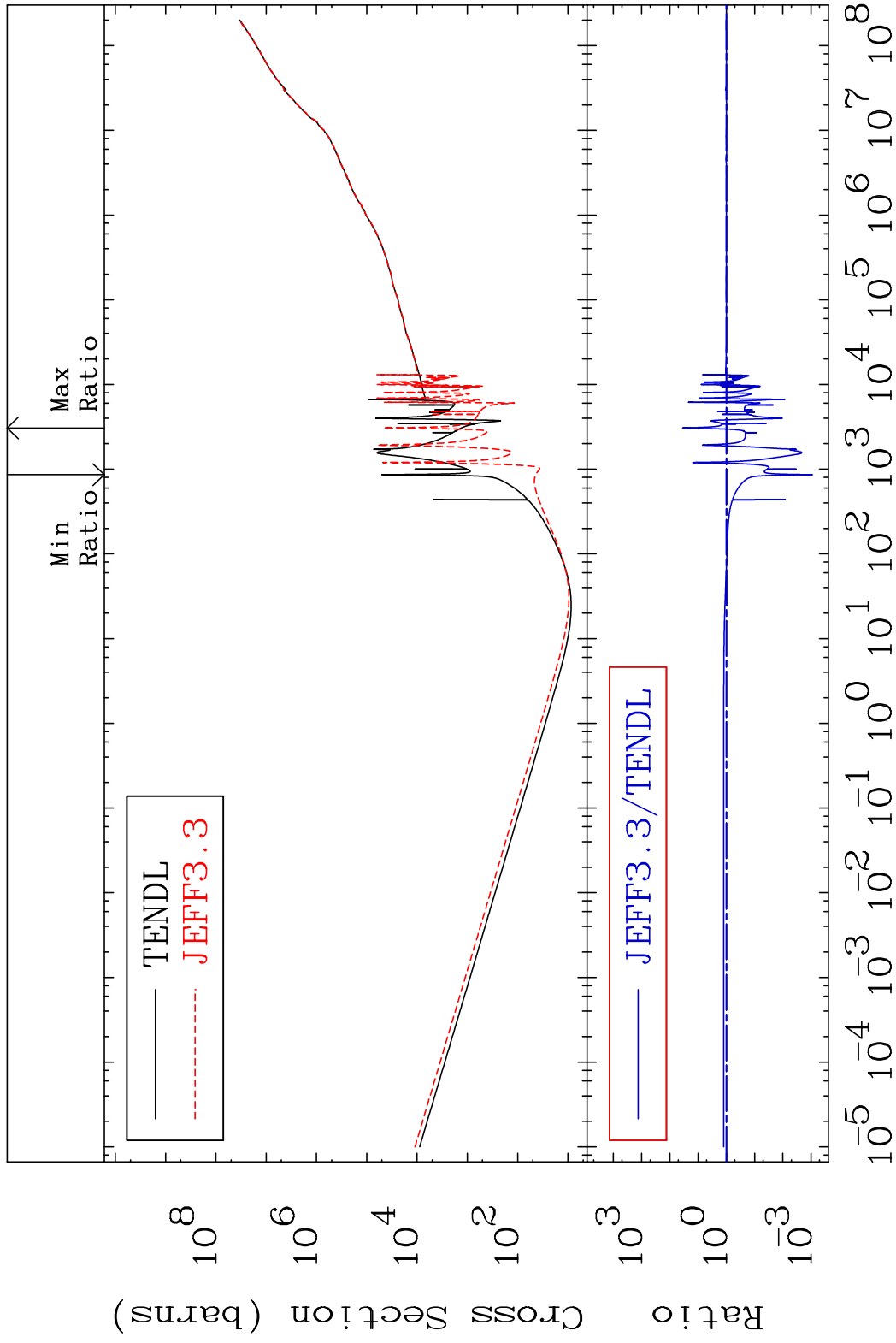


61

Incident Energy (eV)

21-Sc-47

MAT 2131 Kerma total (eV-barns) 21-Sc-47
 Cross Section -99.91 To 3513. %

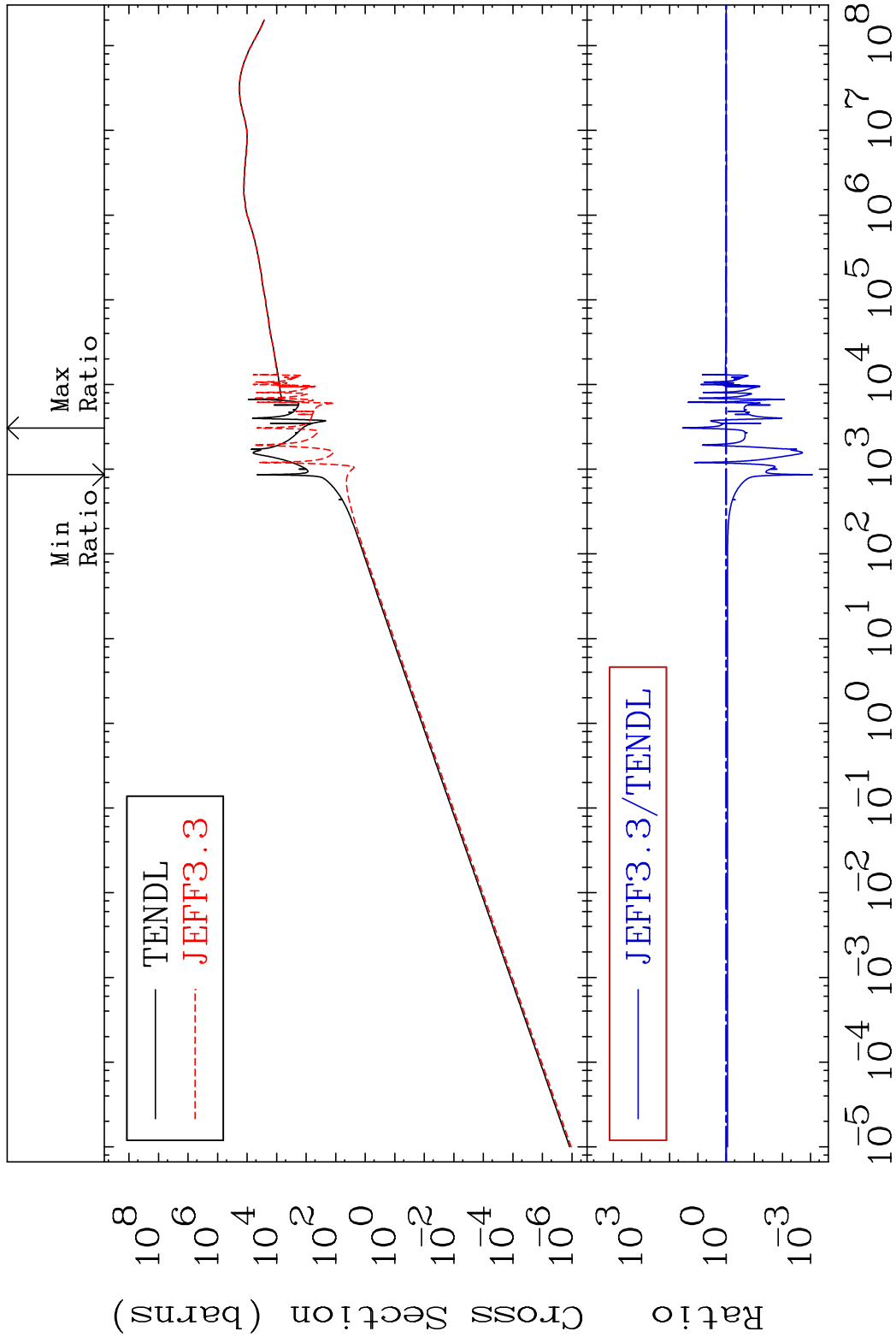


MAT 2131

Kerma elastic

21-Sc-47

Cross Section -99.91 To 3456. %

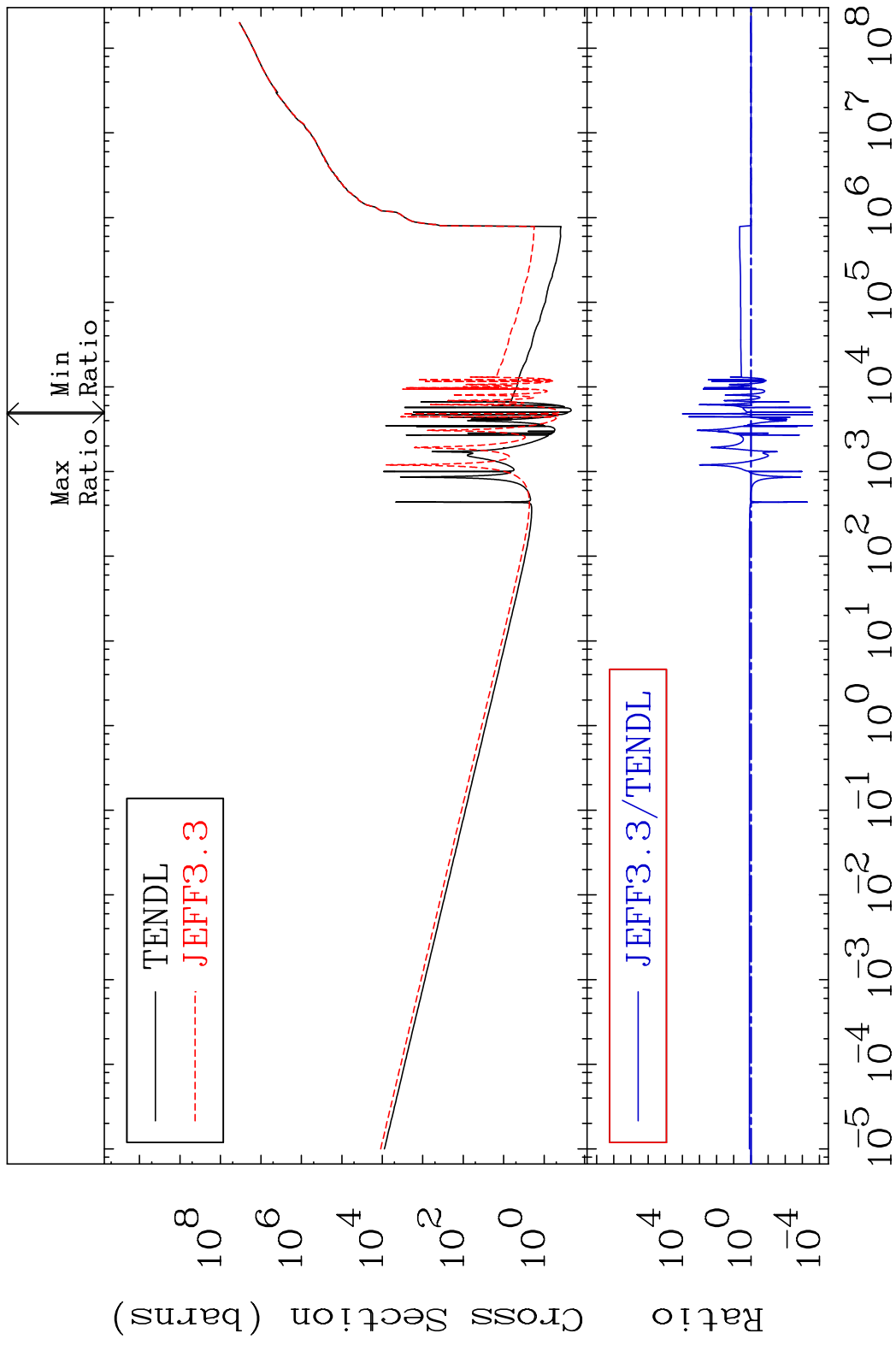


63

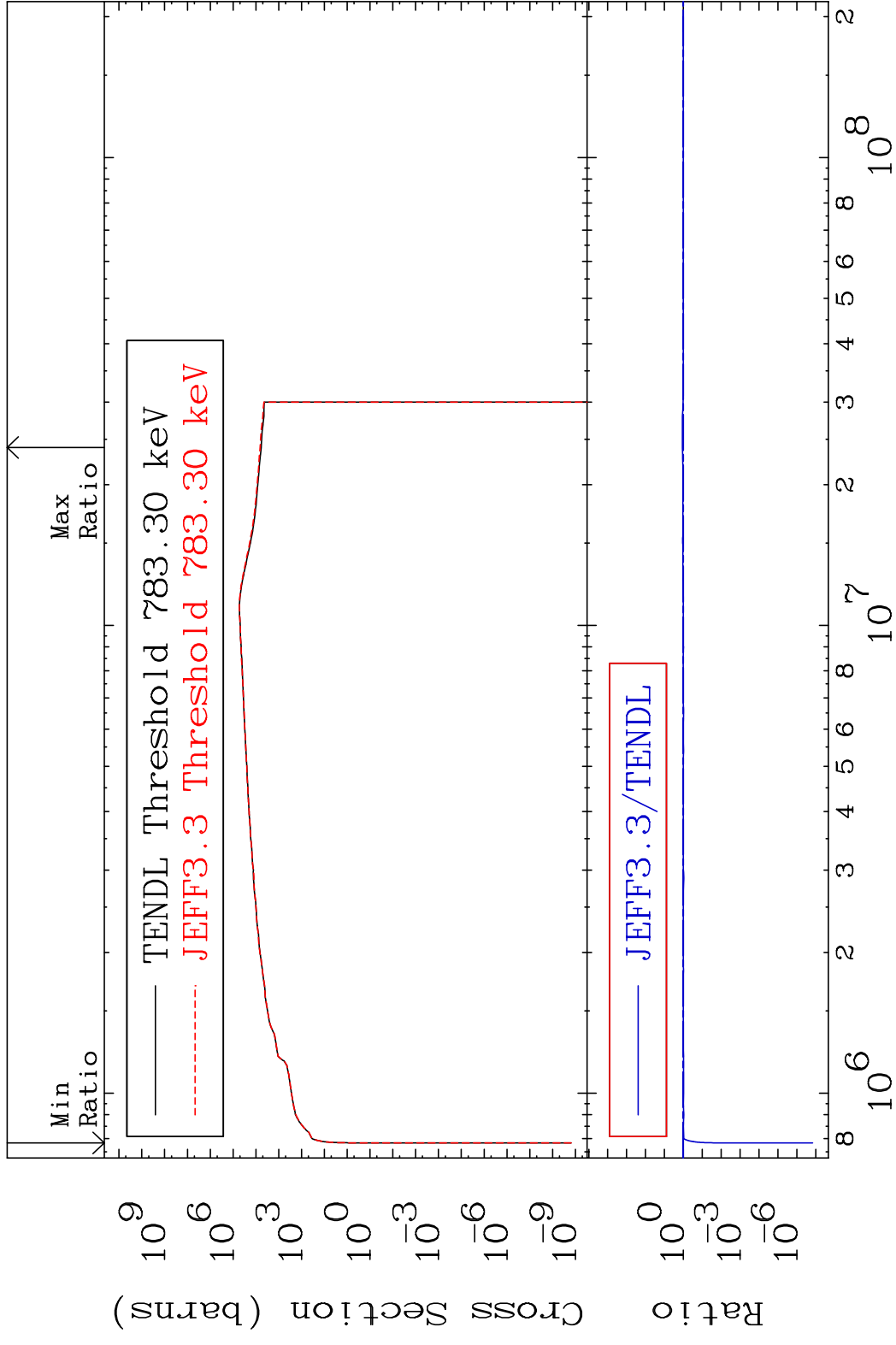
Incident Energy (eV)

21-Sc-47

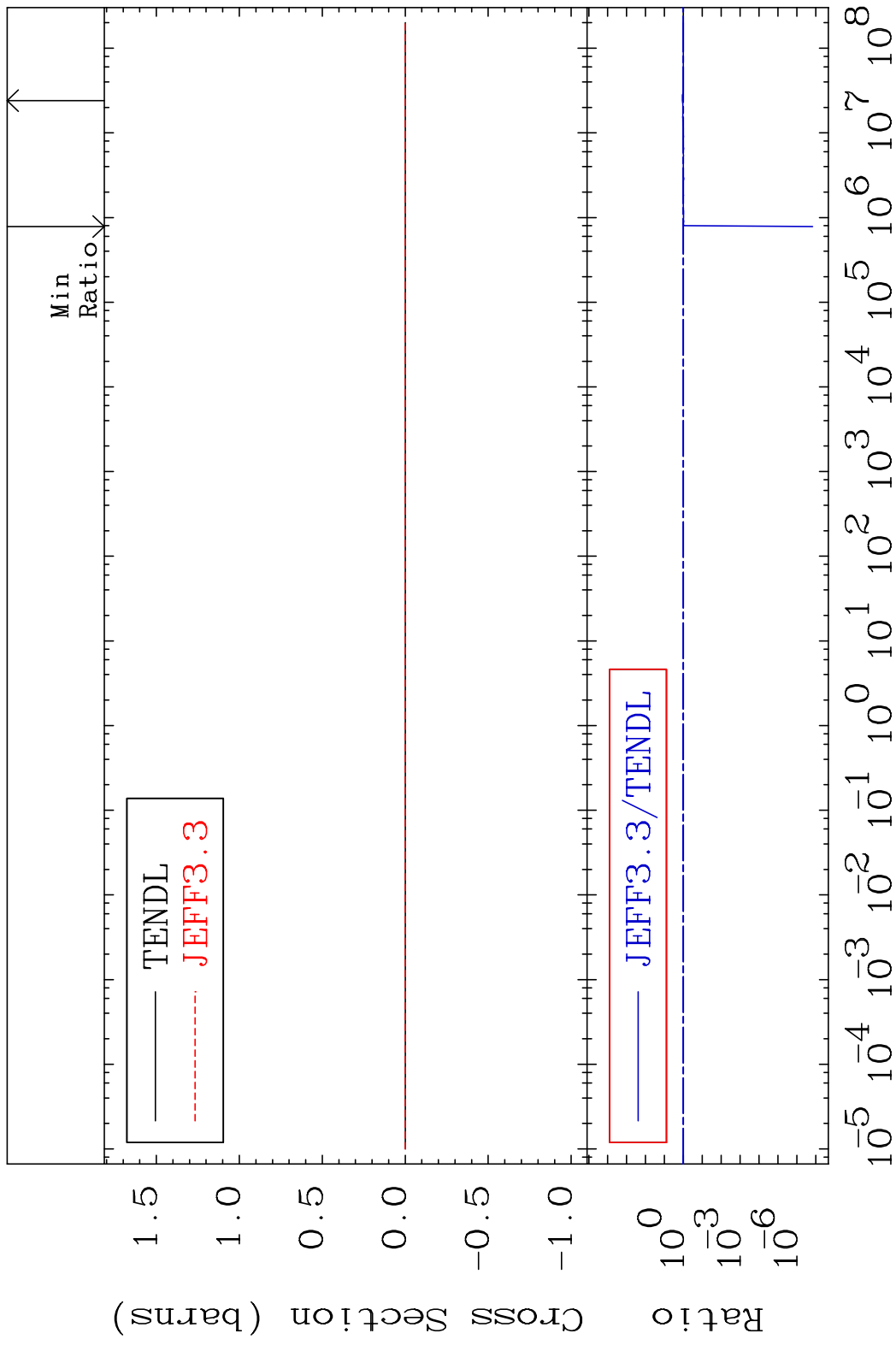
MAT 2131 Kerma non-elastic (all but mt2) 21-Sc-47
 Cross Section -99.97 To 9999. %



MAT 2131 Kerma inelastic (mt51-91) 21-Sc-47
 Cross Section -100.0 To 13.09 %



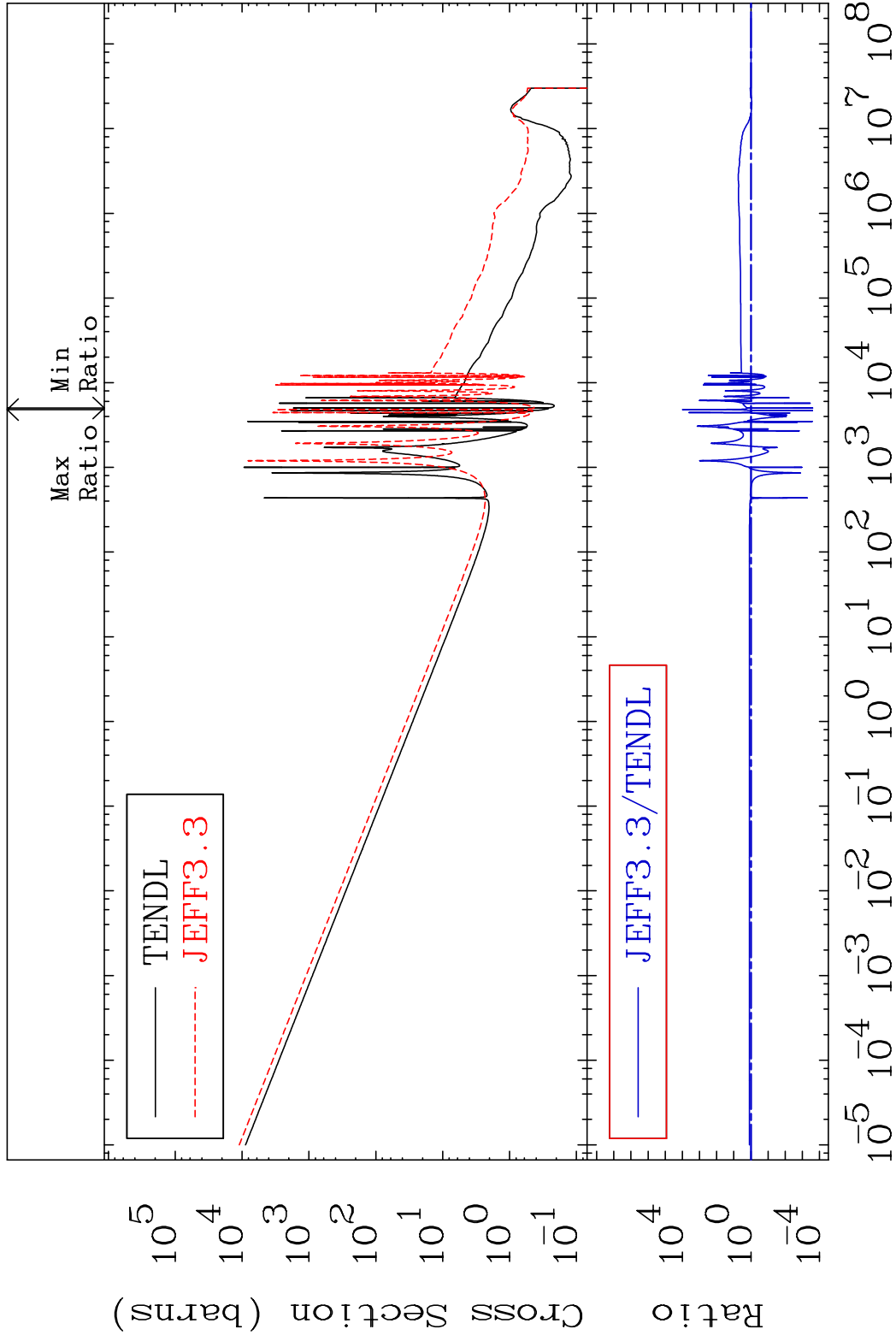
MAT 2131 Kerma fission (mt18 or mt19-20-21-38) 21-Sc-47
 Cross Section -100.0 To 13.09 %



MAT 2131

Kerma capture (mt102) 21-Sc-47

Cross Section -99.97 To 9999. %

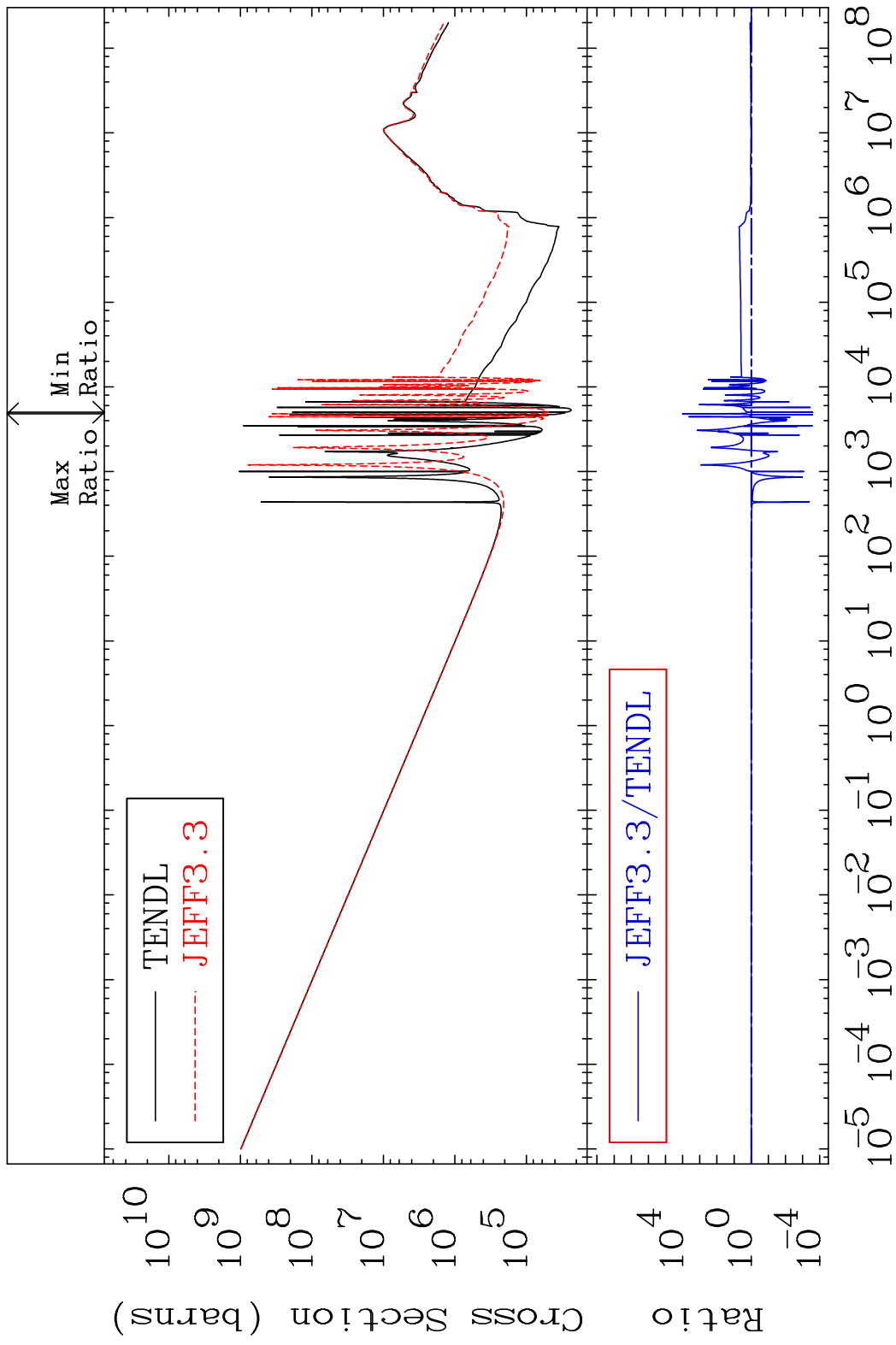


67

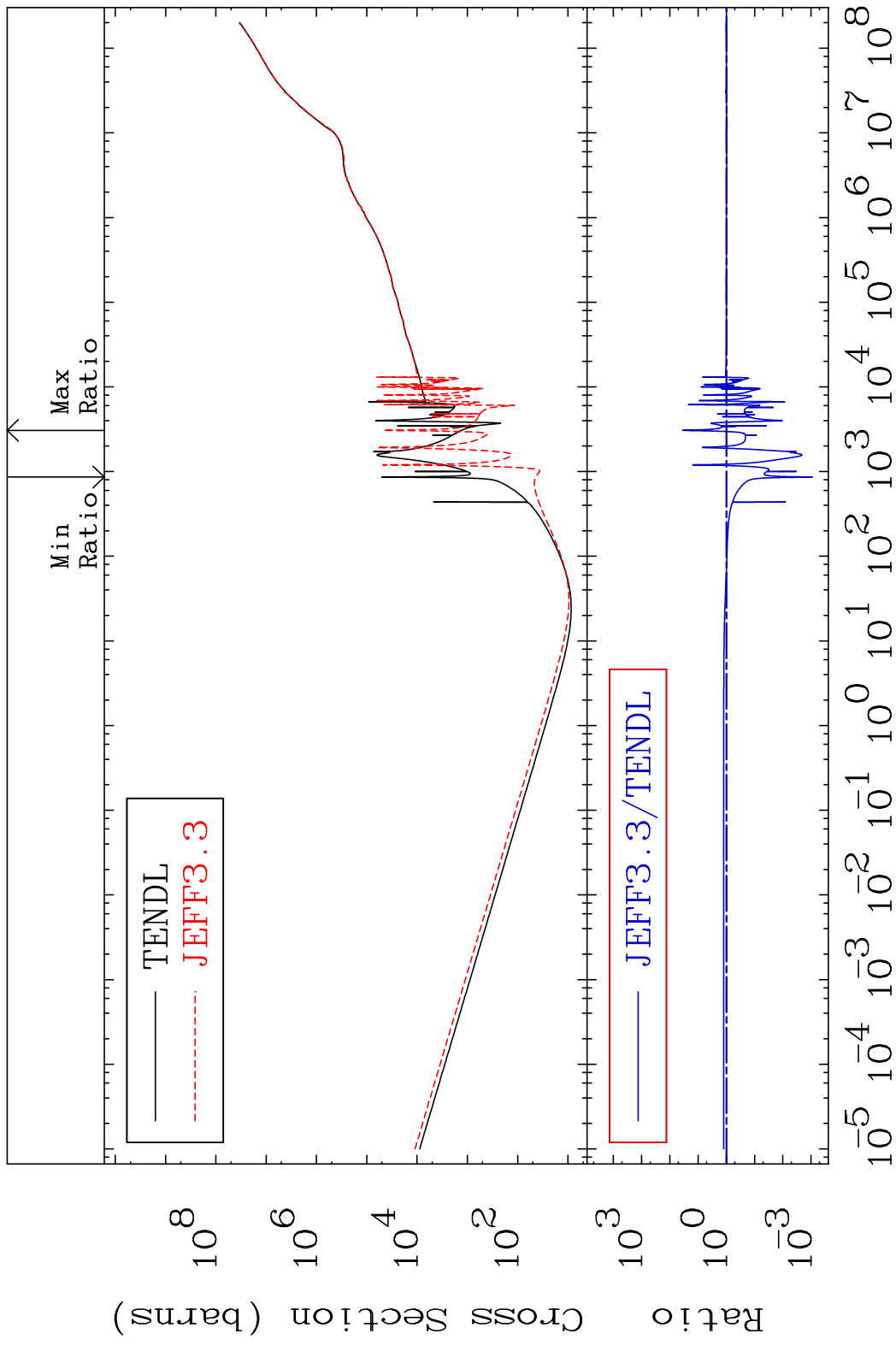
Incident Energy (eV)

21-Sc-47

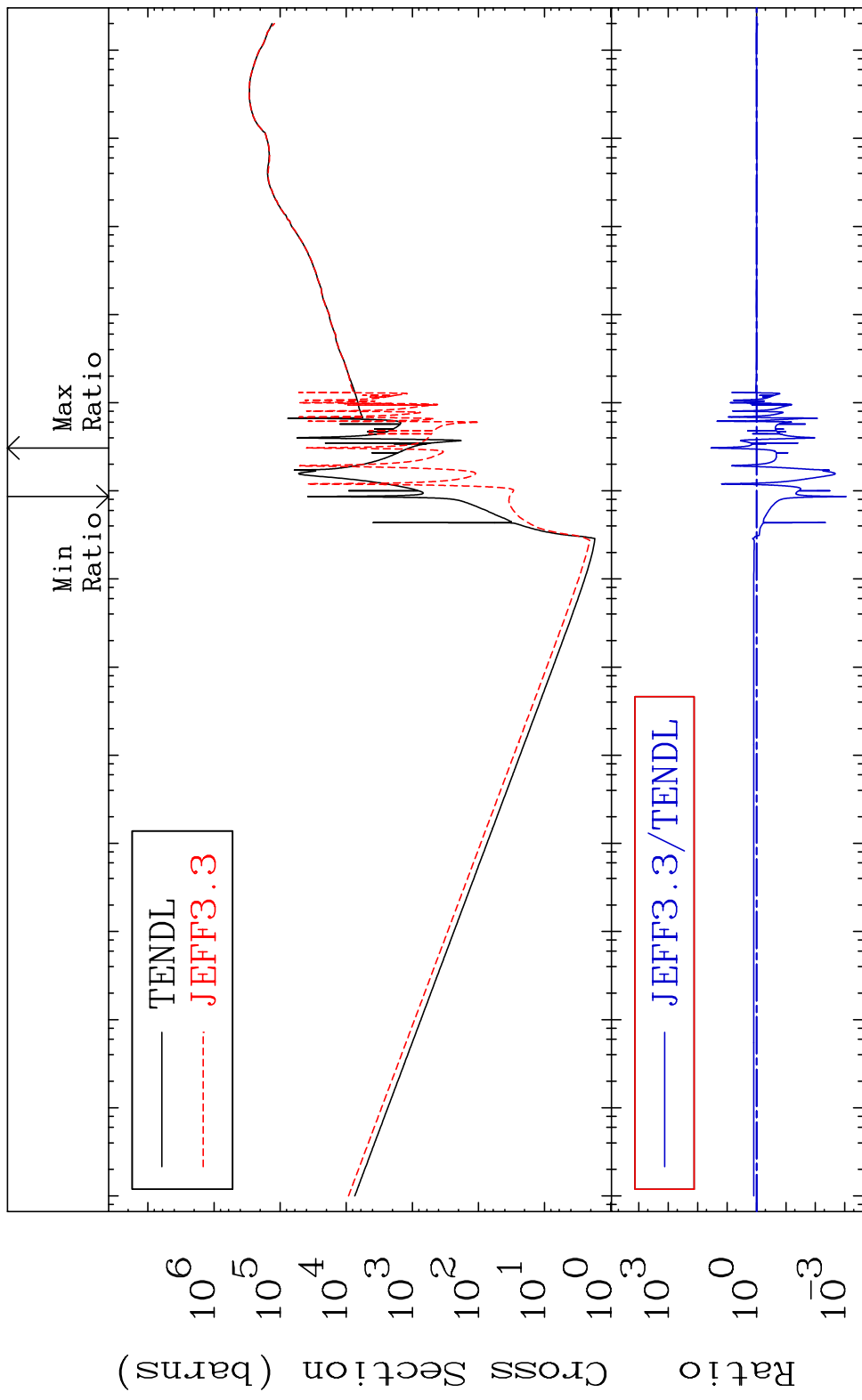
MAT 2131 Total photon (eV-barns) 21-Sc-47
 Cross Section -99.97 To 9999. %



MAT 2131 Total kinematic kerma (high limit) 21-Sc-47
Cross Section -99.91 To 3513. %

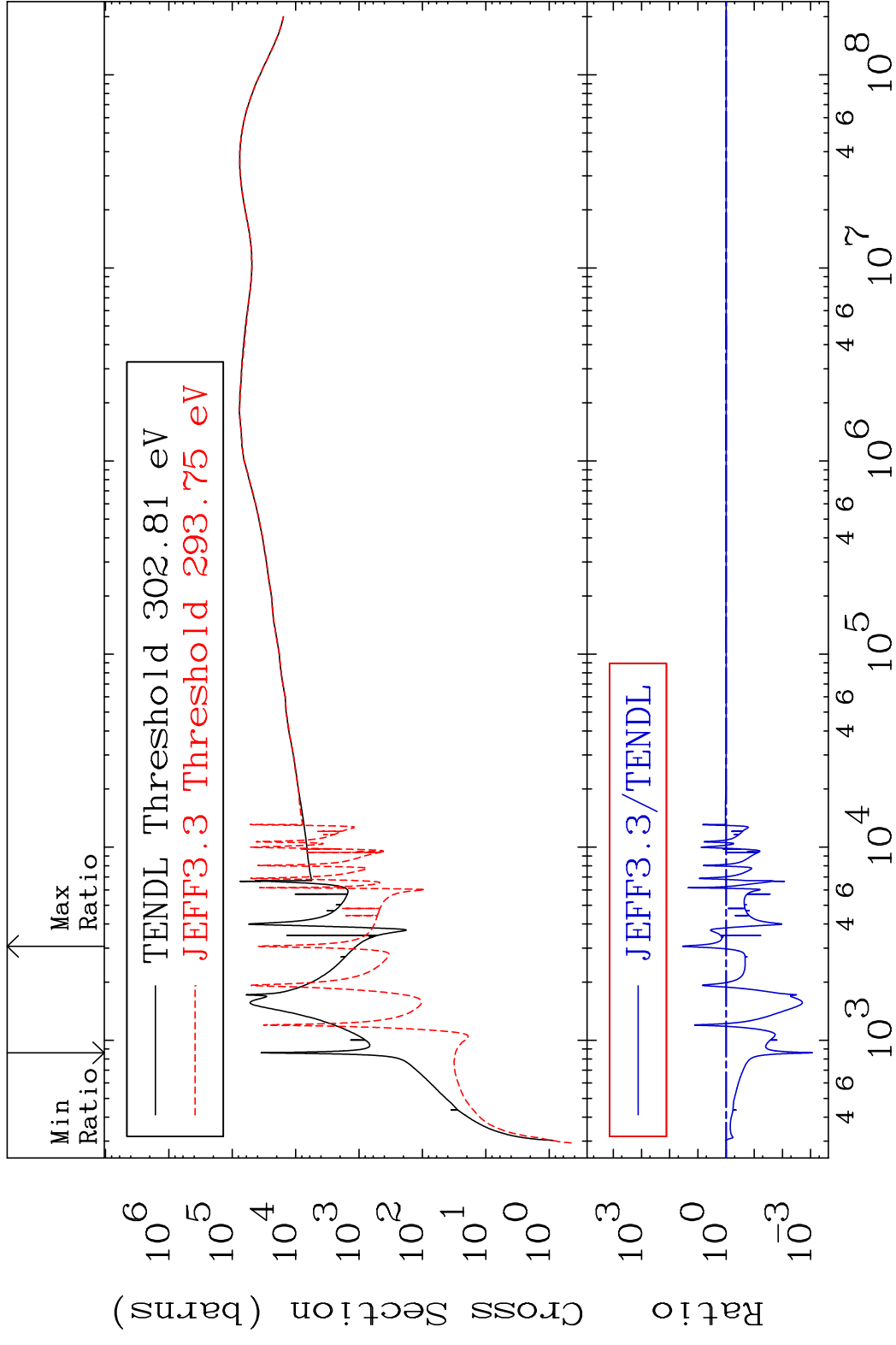


MAT 2131 Dpa total (eV-barns) 21-Sc-47
 Cross Section -99.91 To 3512. %

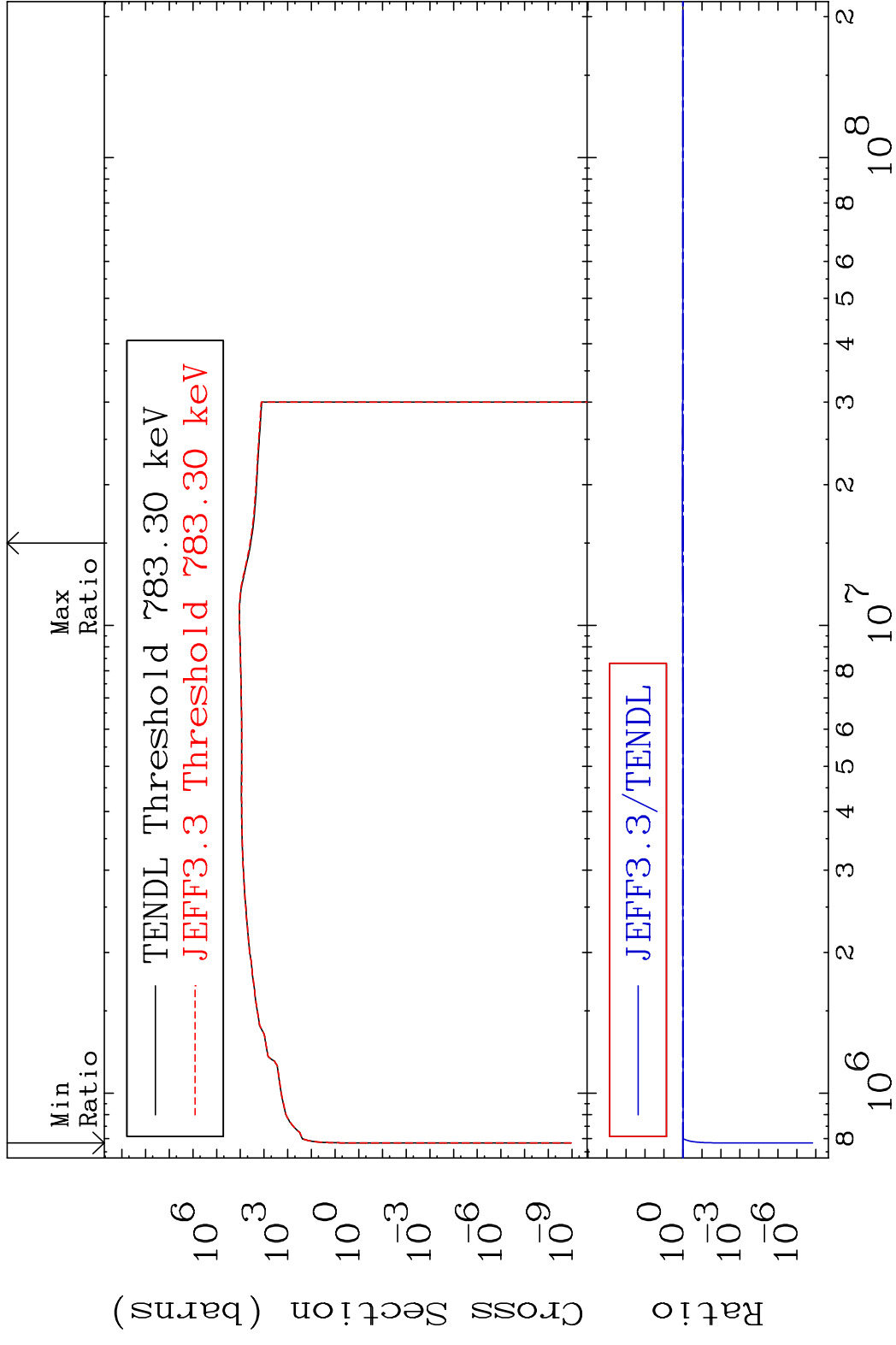


70 Incident Energy (eV) 21-Sc-47

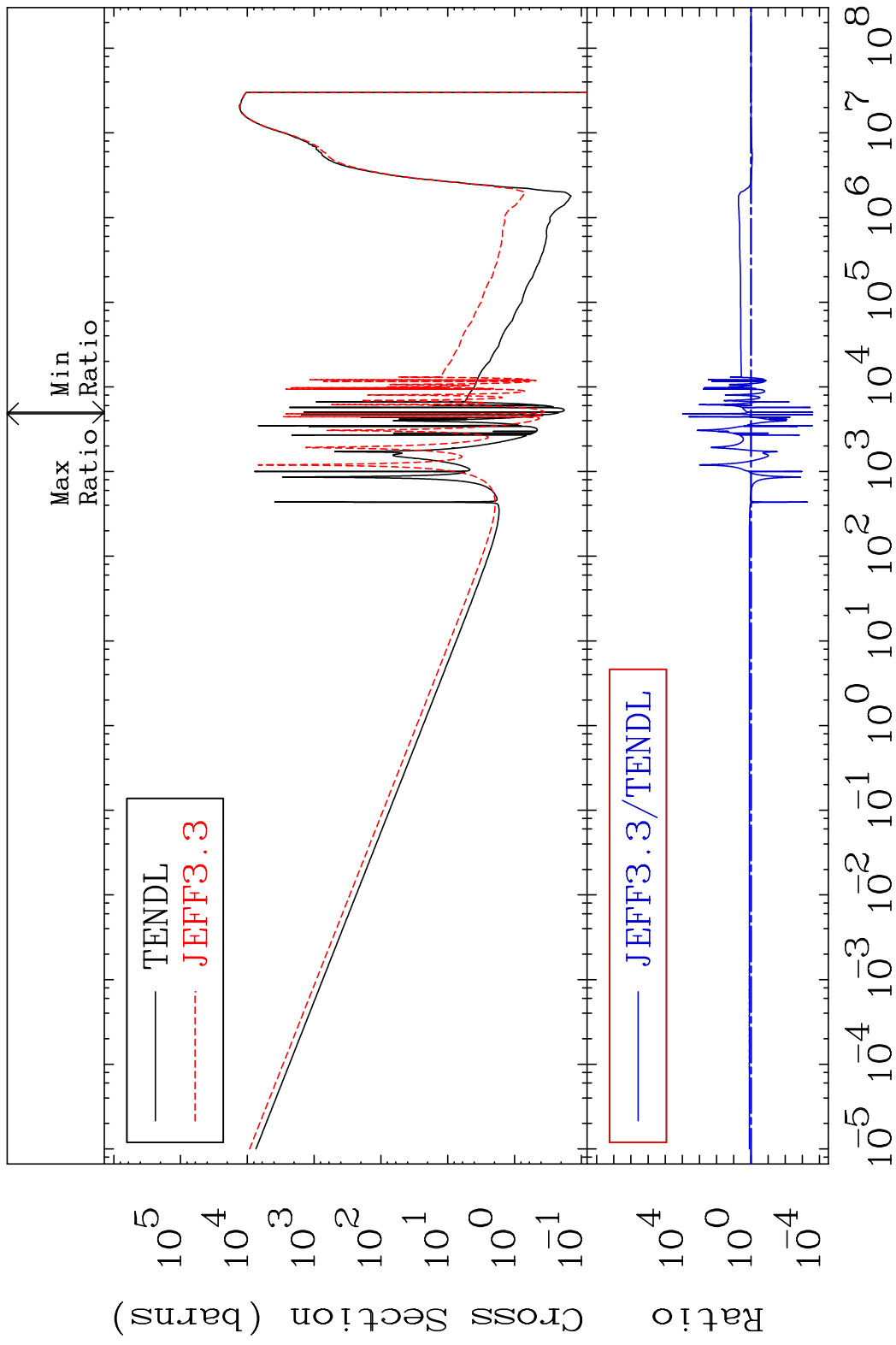
MAT 2131 Dpa elastic (mt2) 21-Sc-47
 Cross Section -99.91 To 3456. %



MAT 2131 Dpa inelastic (mt51-91) 21-Sc-47
 Cross Section -100.0 To 7.275 %

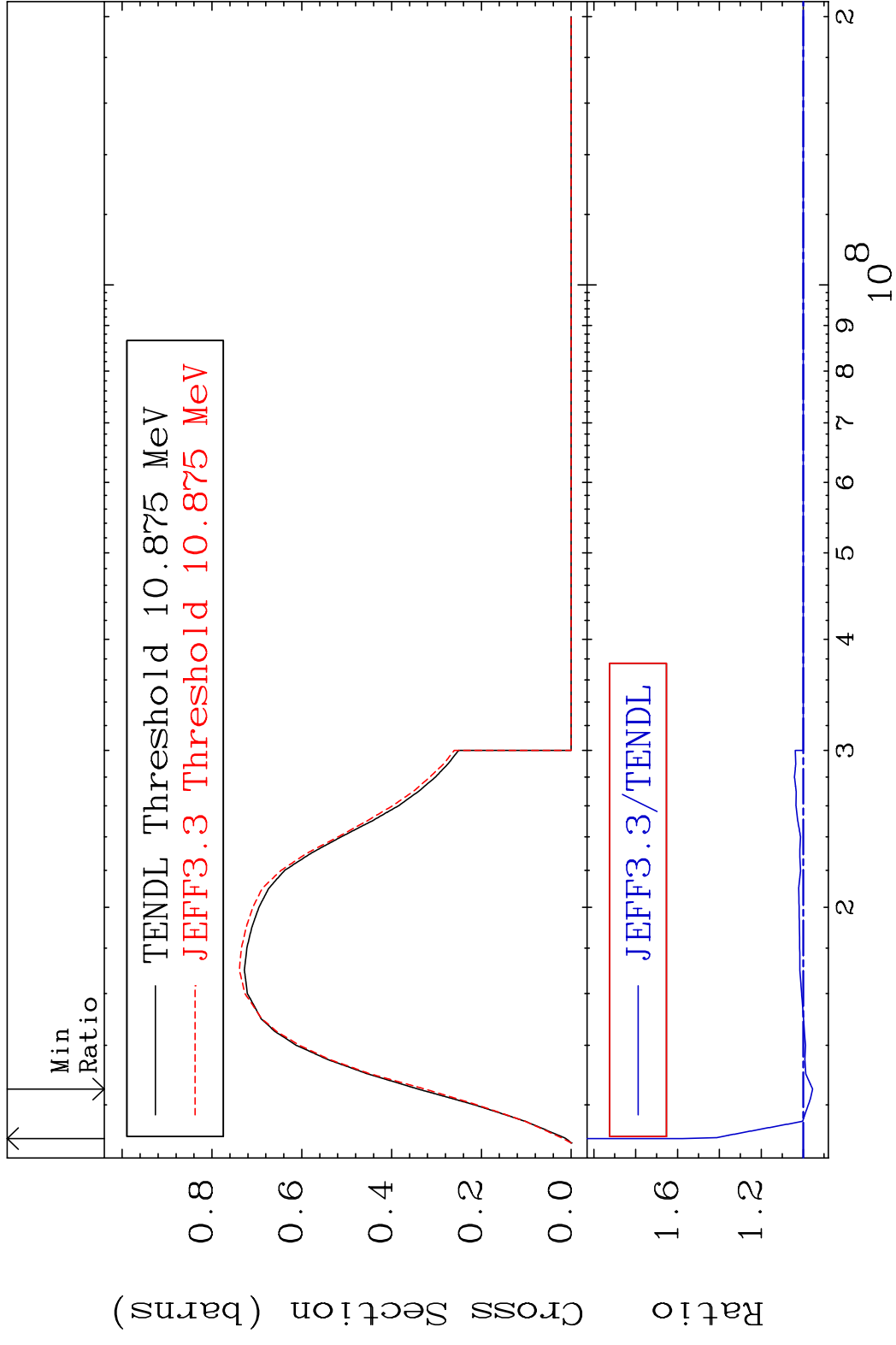


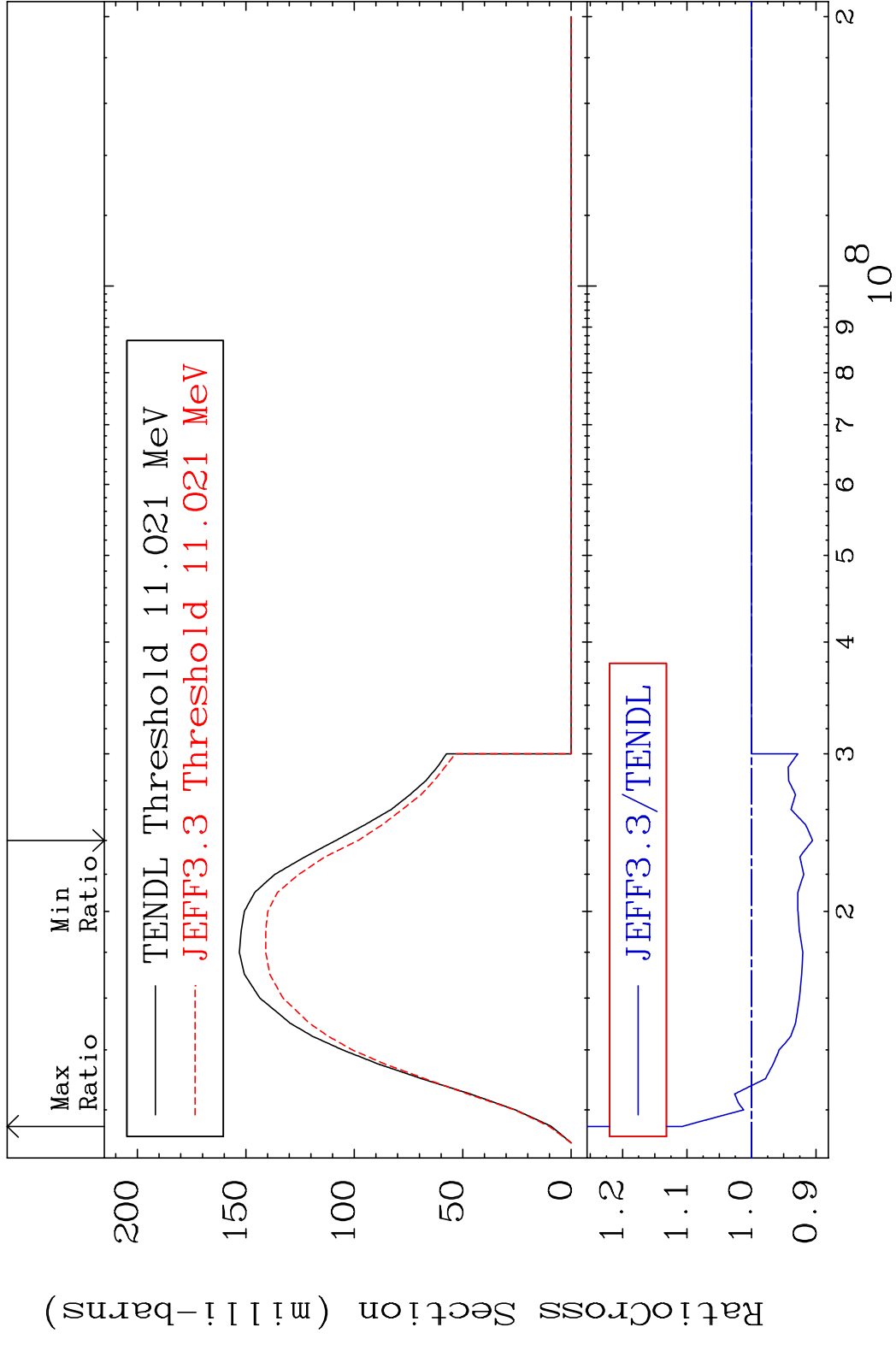
MAT 2131 Dpa disappearance (mt102 -120) 21-Sc-47
 Cross Section -99.97 To 9999. %

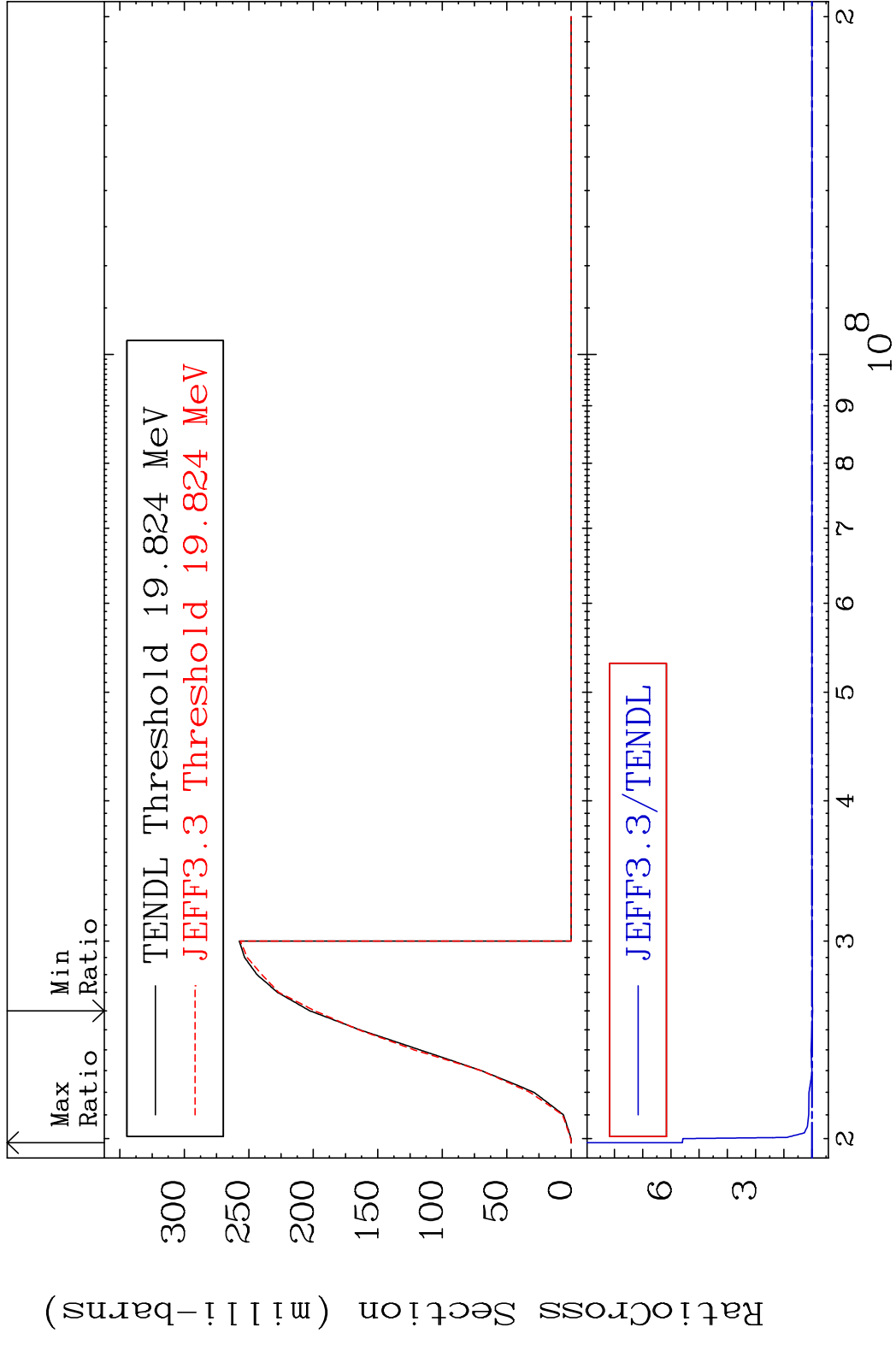


73 Incident Energy (eV) 21-Sc-47

MAT 2131 (n,2n):21-Sc-46g 21-Sc-47
 Radionuclide Production Cross Section to 57.70 %







MAT 2131 (n,3n):21-Sc-45m1 21-Sc-47
 Radionuclide Production Cross Section 840.4 %

