

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

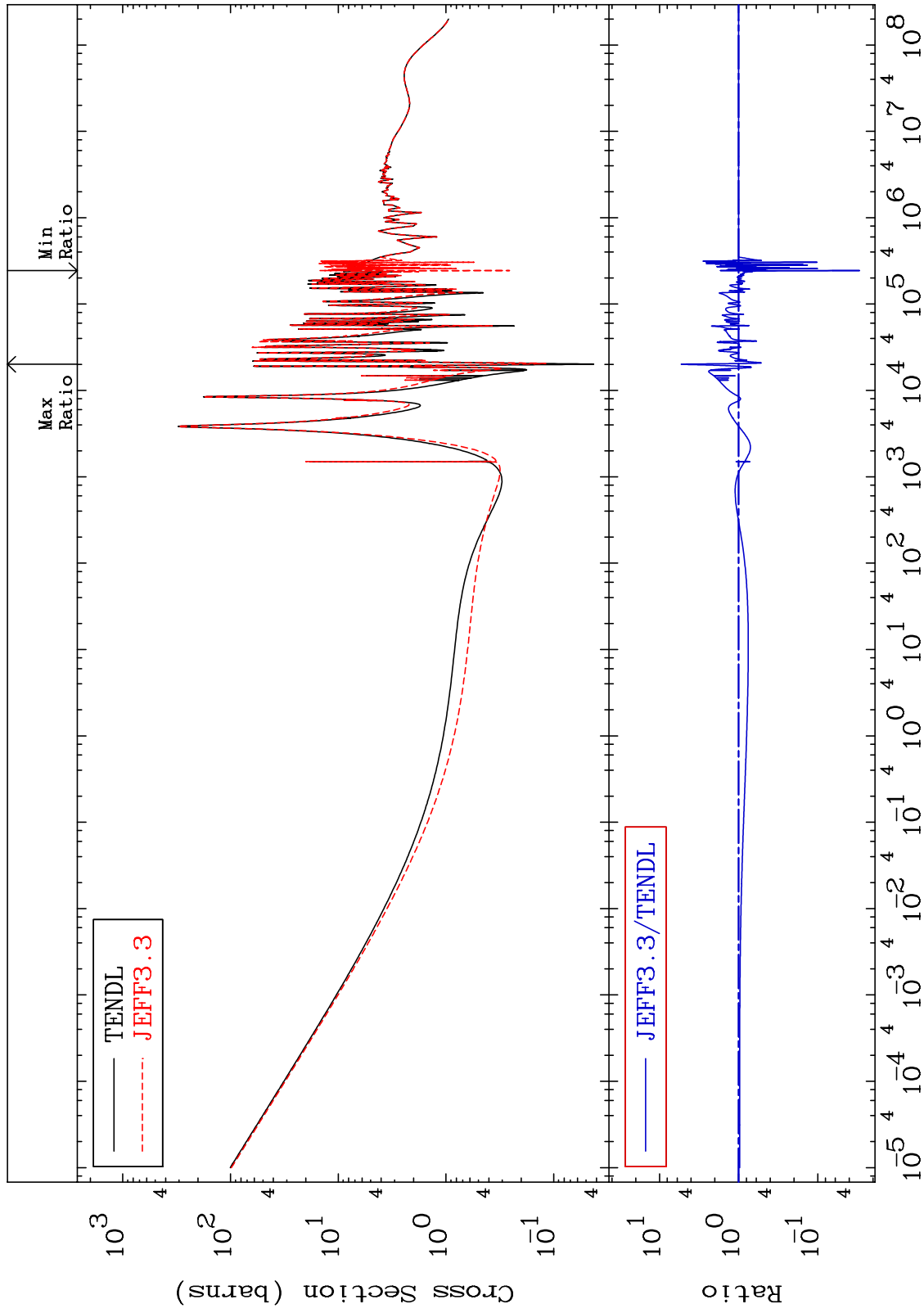
MAT 2234

Total

22-Ti-49

Cross Section

-97.06 To 433.1 %



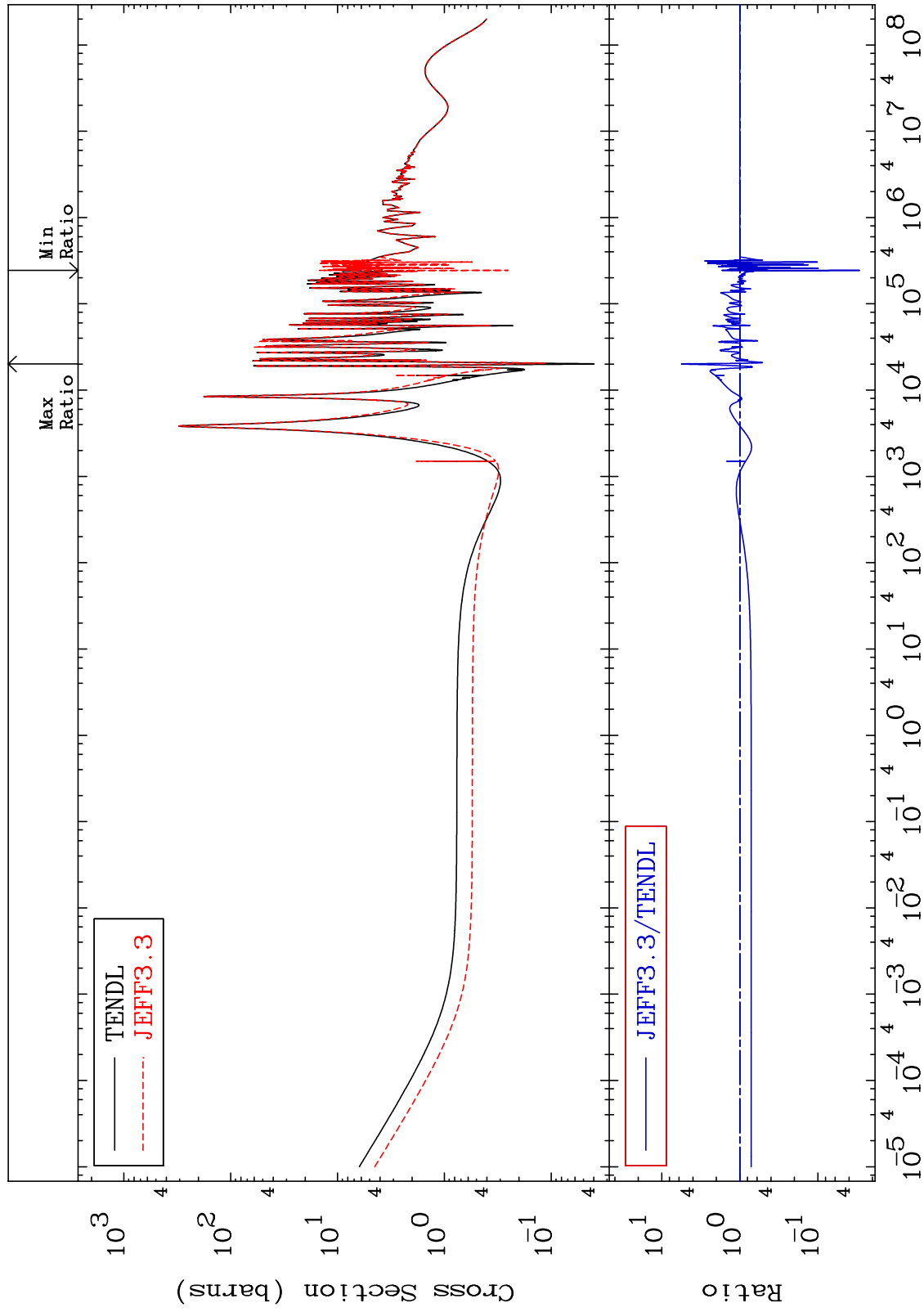
Incident Energy (eV)

22-Ti-49

MAT 2234

Elastic
Cross Section

22-Ti-49
-97.09 To 459.6 %



2

Incident Energy (eV)

22-Ti-49

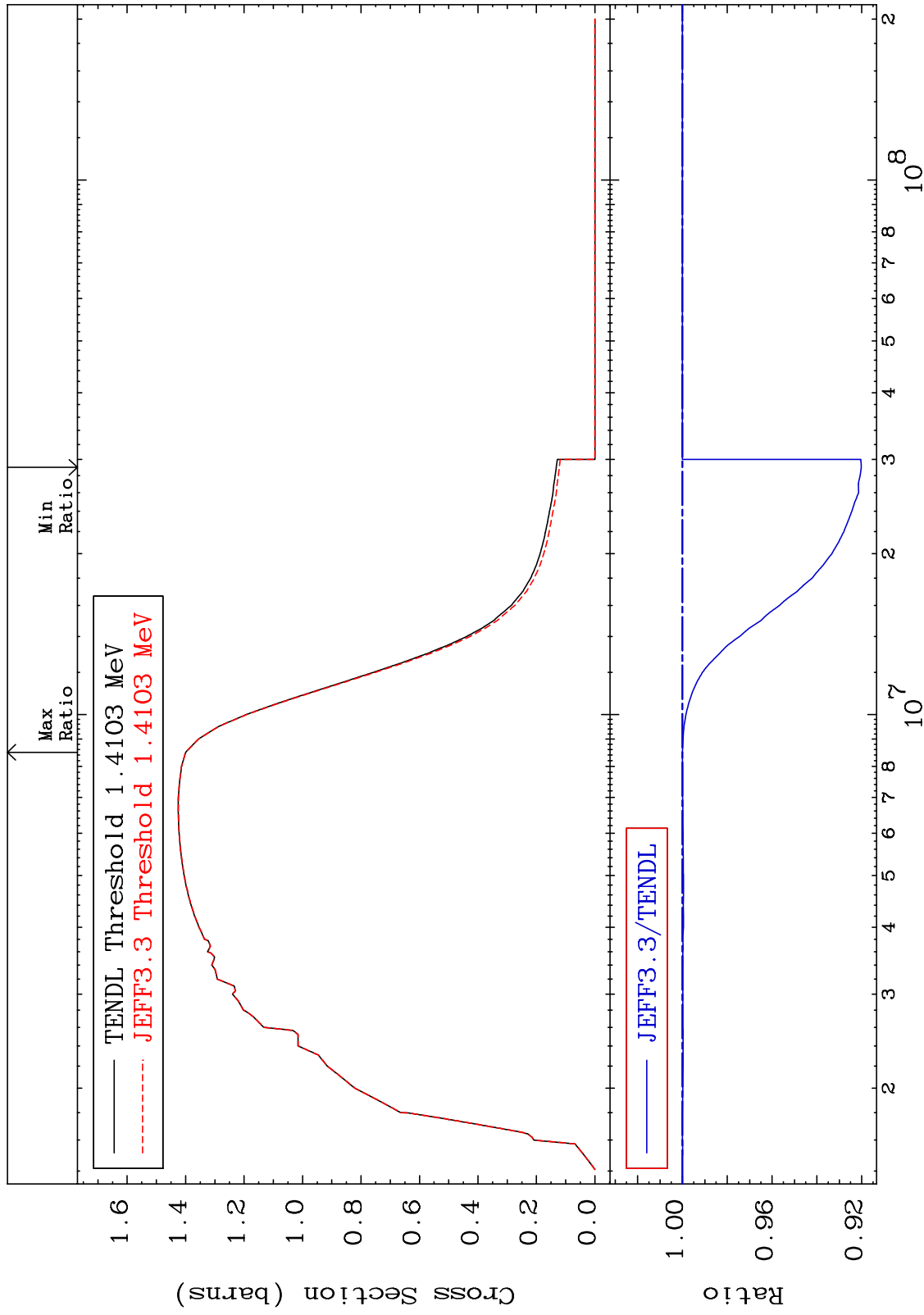
MAT 2234

Inelastic

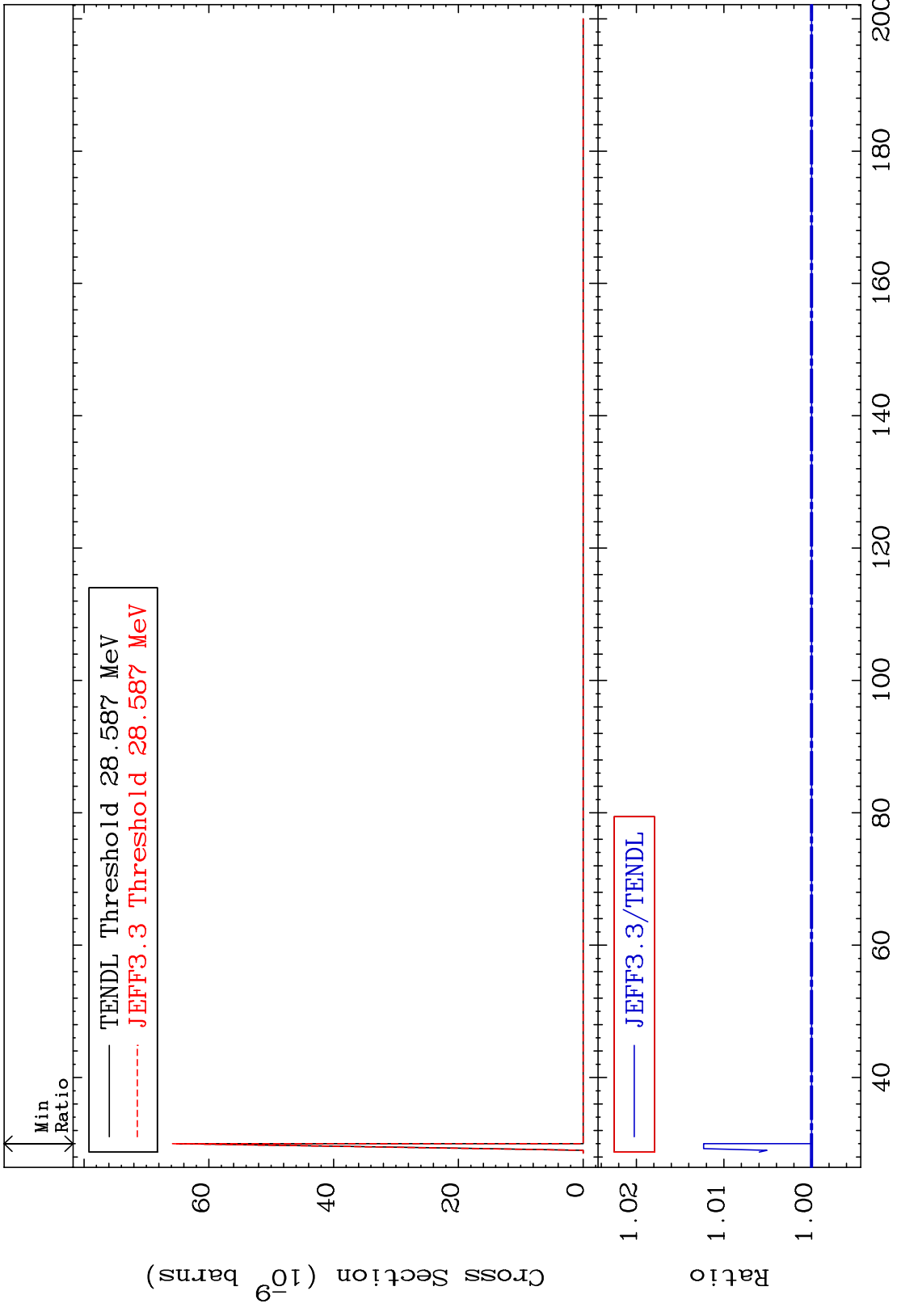
22-Ti-49

Cross Section

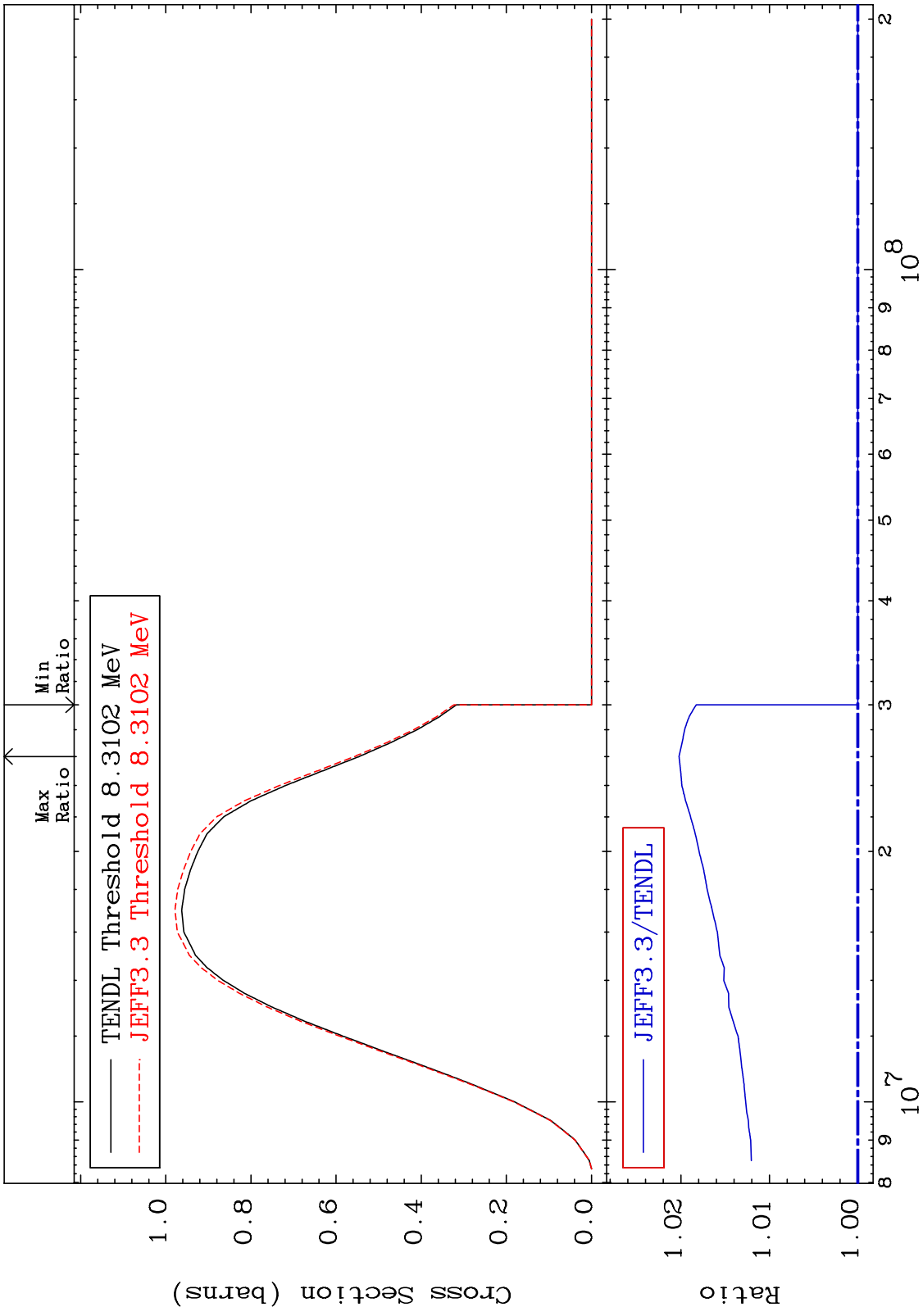
-7.980 To 0.000 %



MAT 2234 (n,2n) d 22-Ti-49
Cross Section 0.000 To 1.231 %

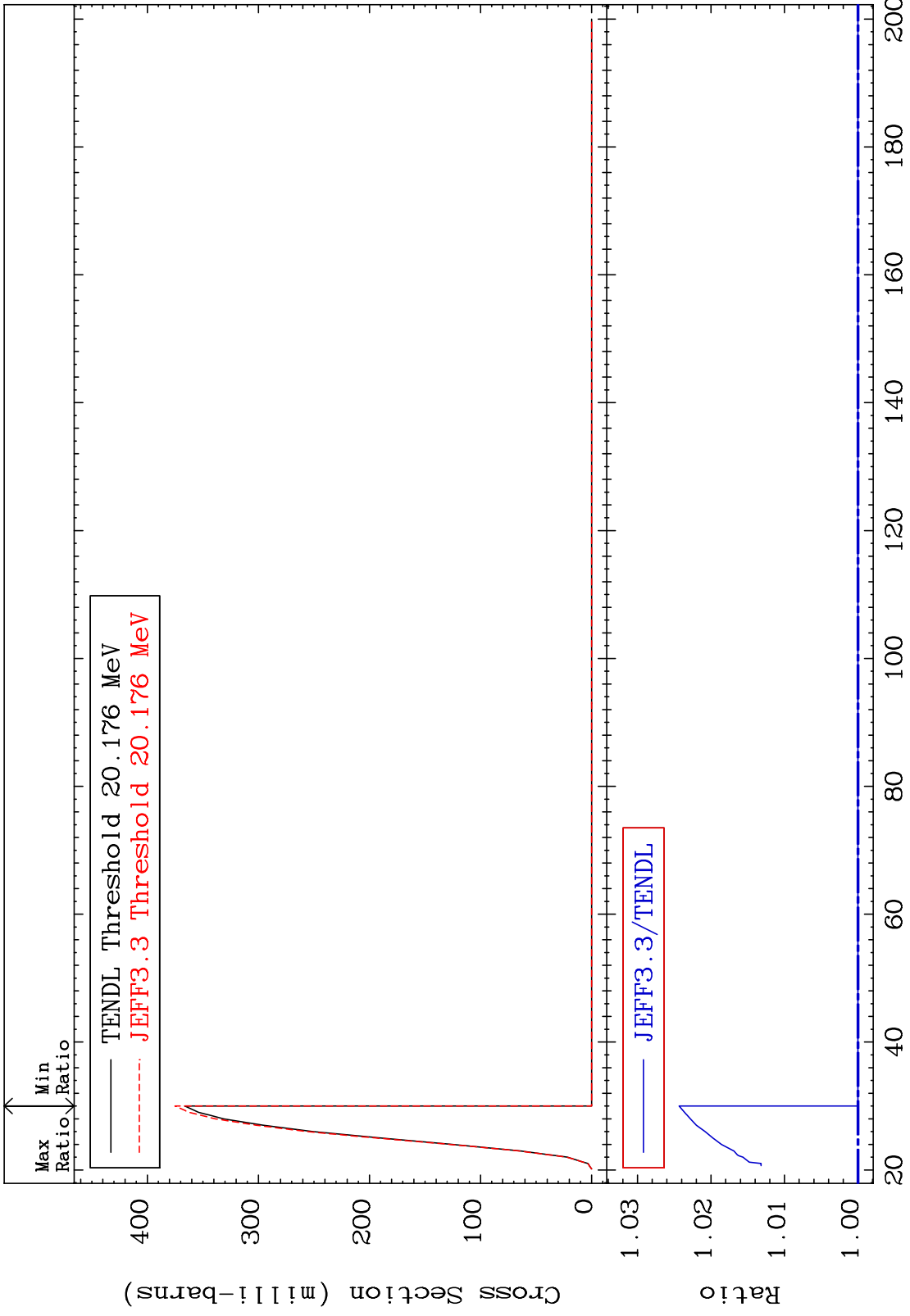


MAT 2234 (n,2n) Cross Section 22-Ti-49 To 2.022 %



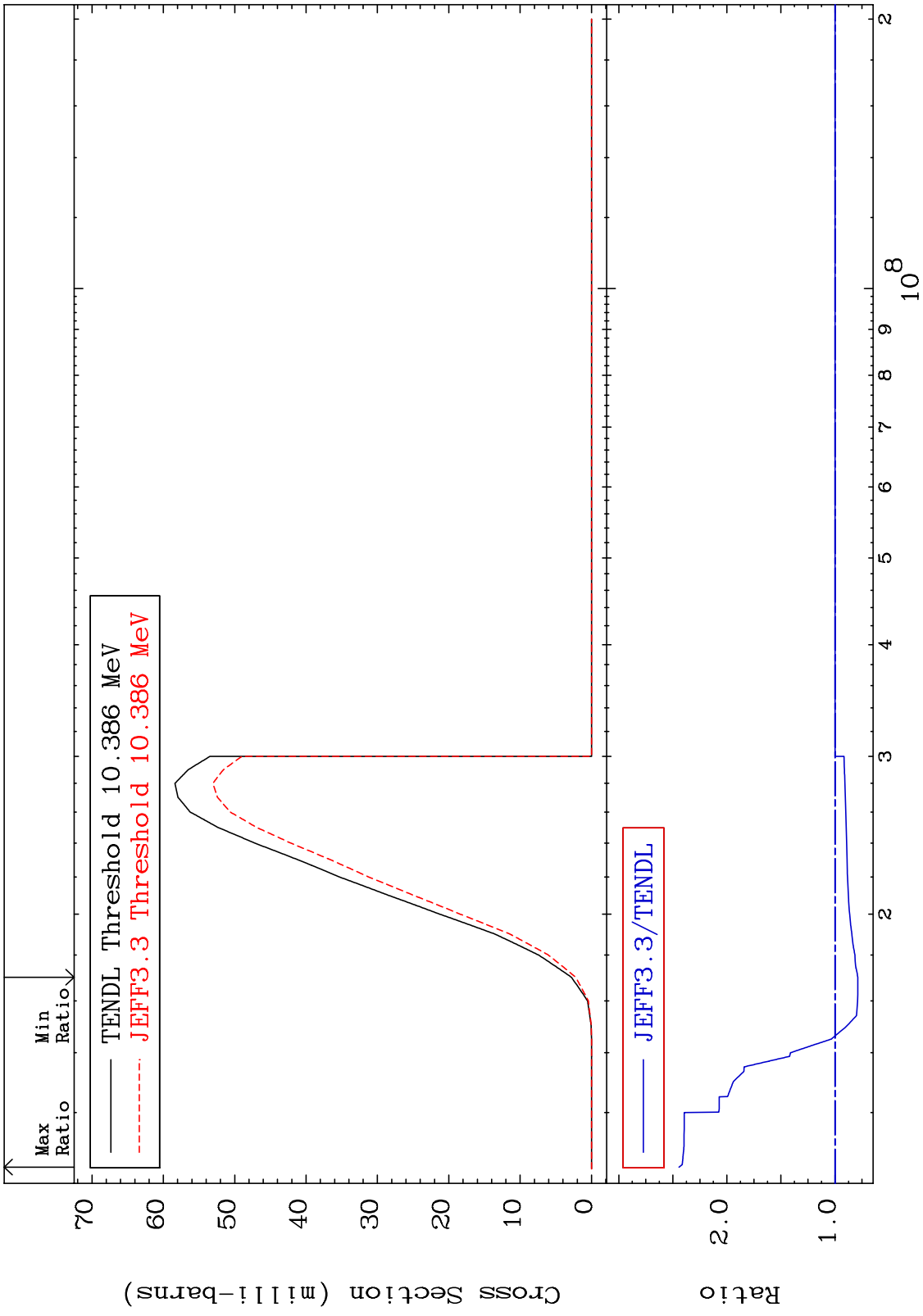
5 Incident Energy (eV) 22-Ti-49

MAT 2234 (n,3n) 22-Ti-49
 Cross Section 0.000 To 2.434 %

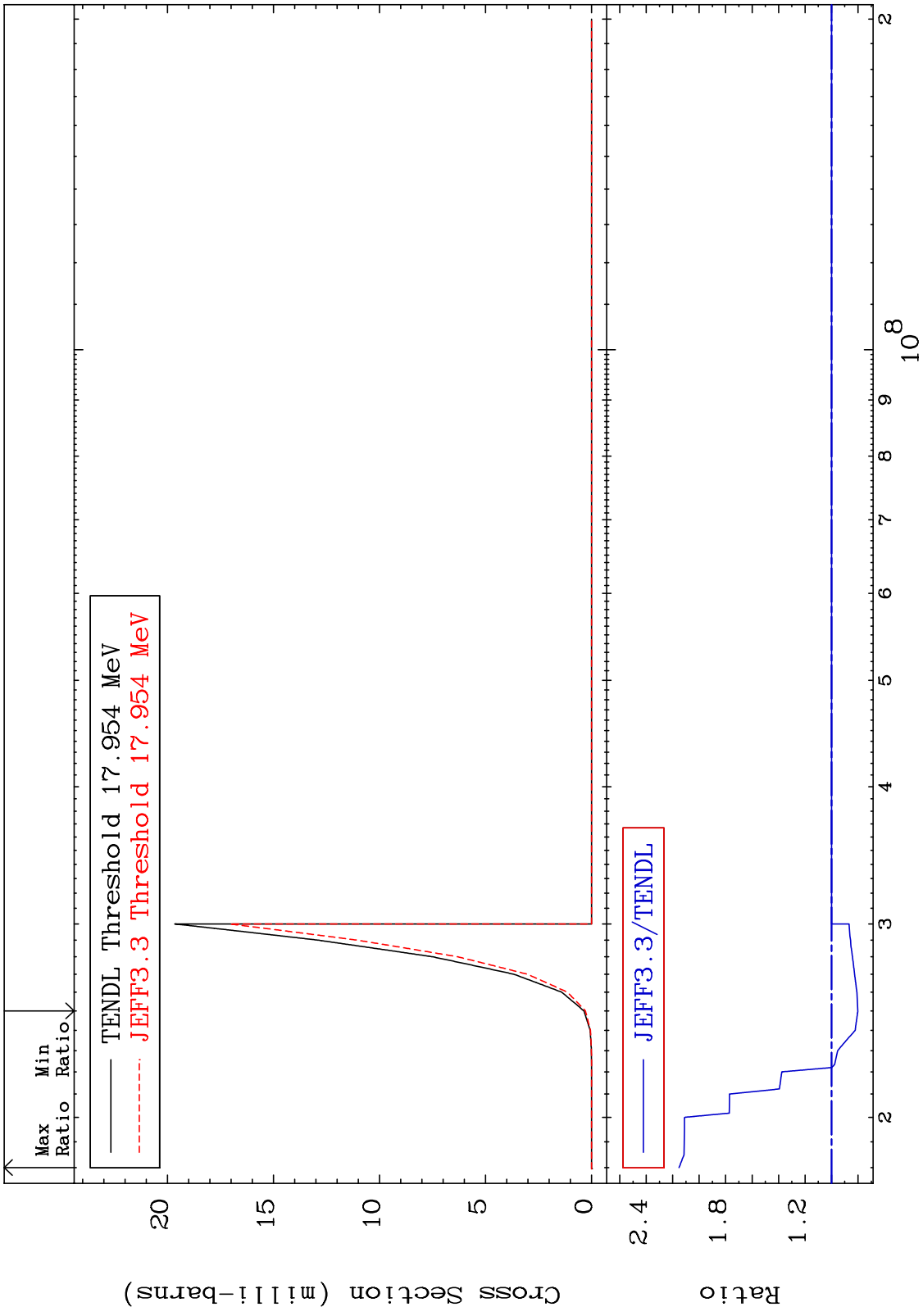


6 Incident Energy (MeV) 22-Ti-49

MAT 2234 $(n, n') \alpha$ 22-Ti-49
 Cross Section -21.12 To 144.2 %

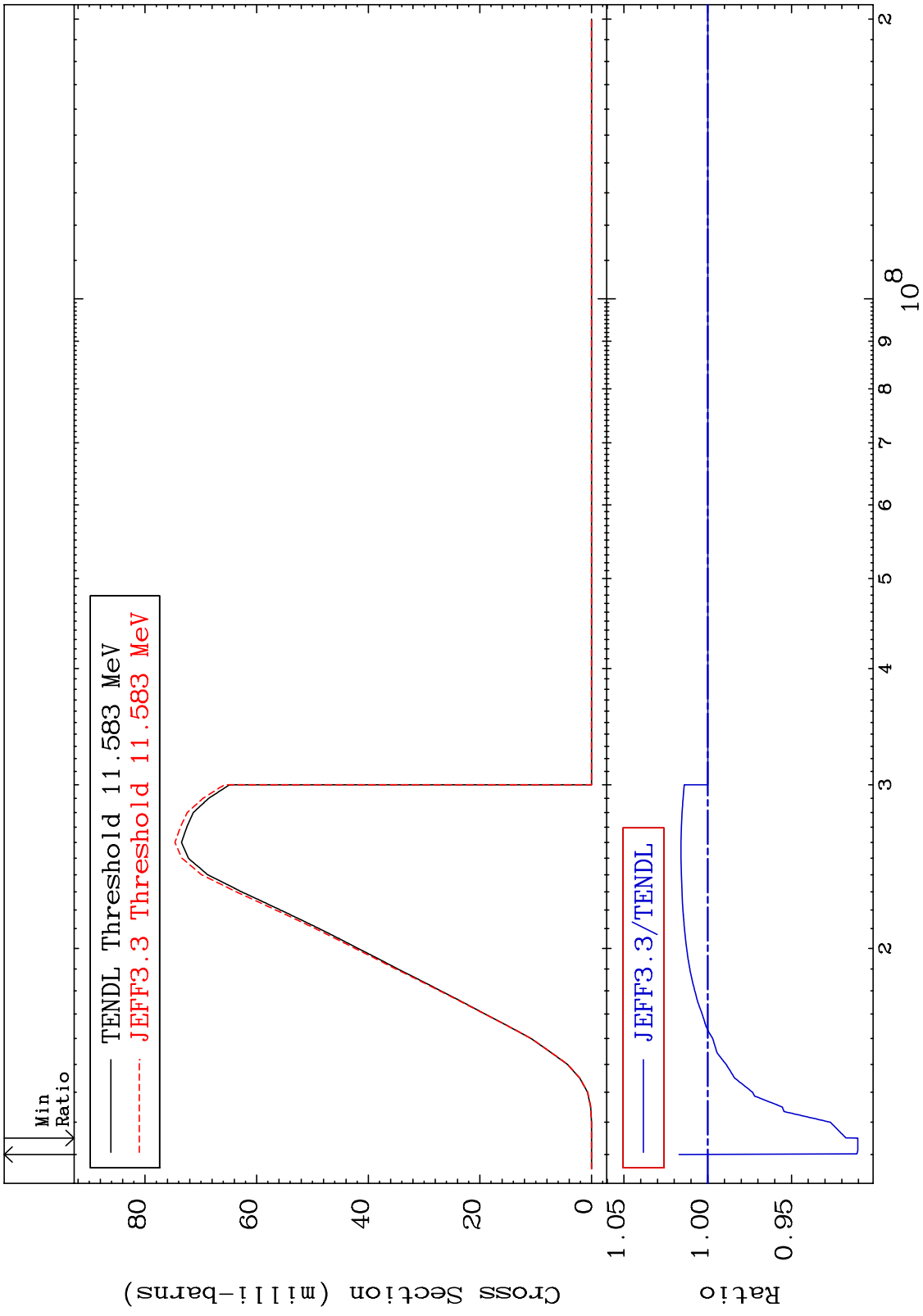


MAT 2234 (n,2n) α 22-Ti-49
 Cross Section -19.87 To 115.2 %

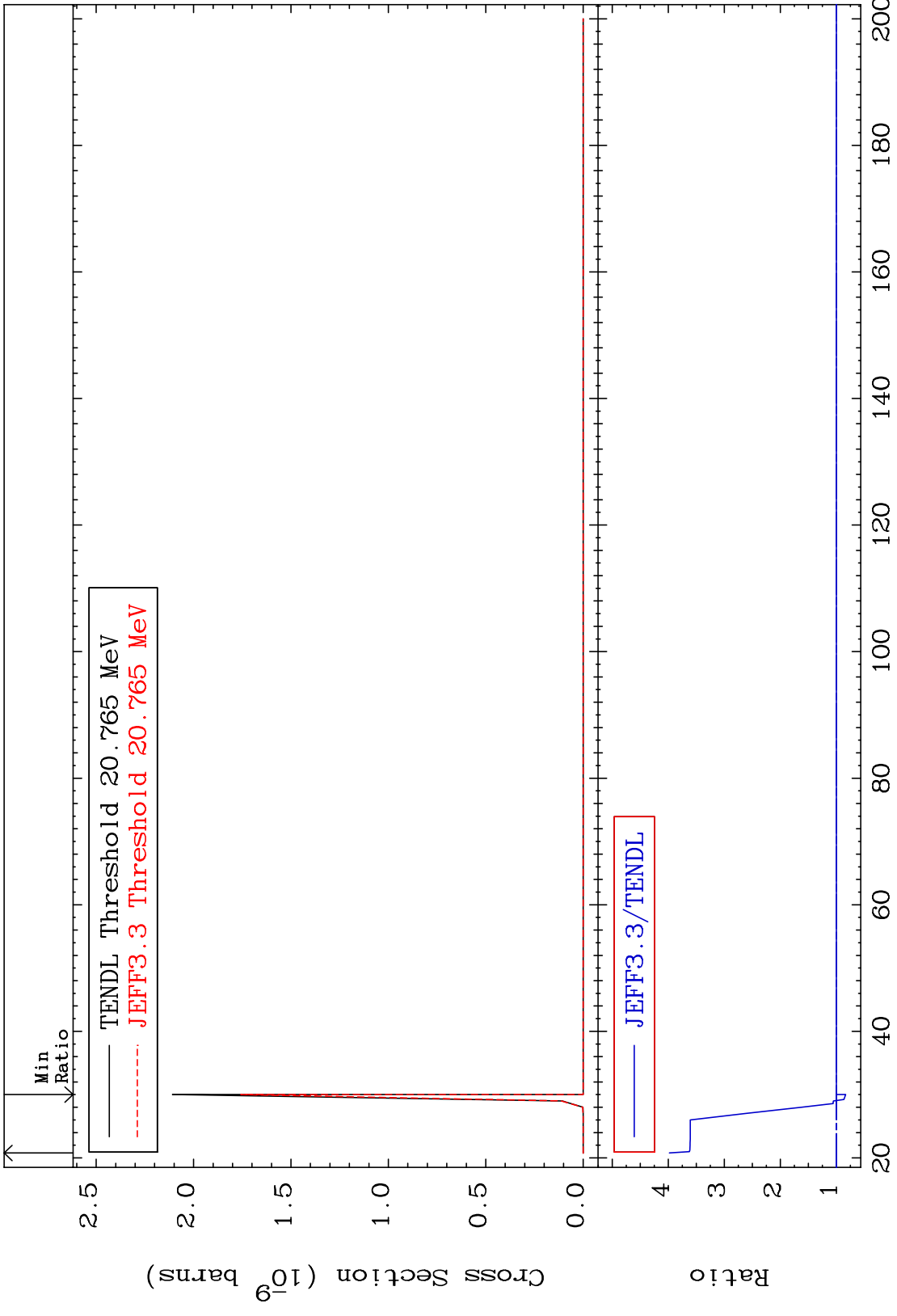


22-Ti-49

MAT 2234 (n,n') p 22-Ti-49
 Cross Section -8.962 To 1.712 %

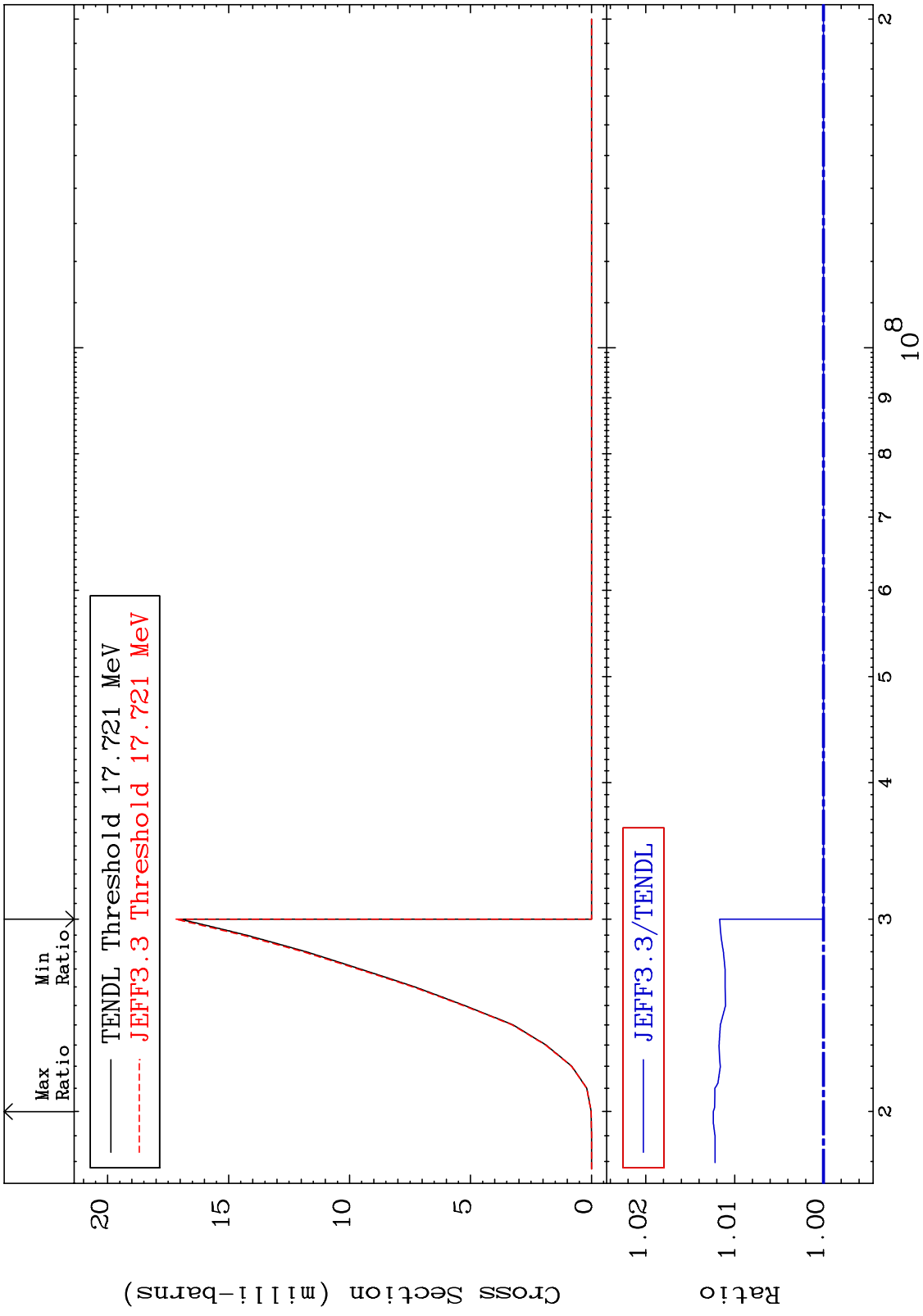


MAT 2234 (n,n') 2α 22-Ti-49
Cross Section -16.63 To 298.1 %

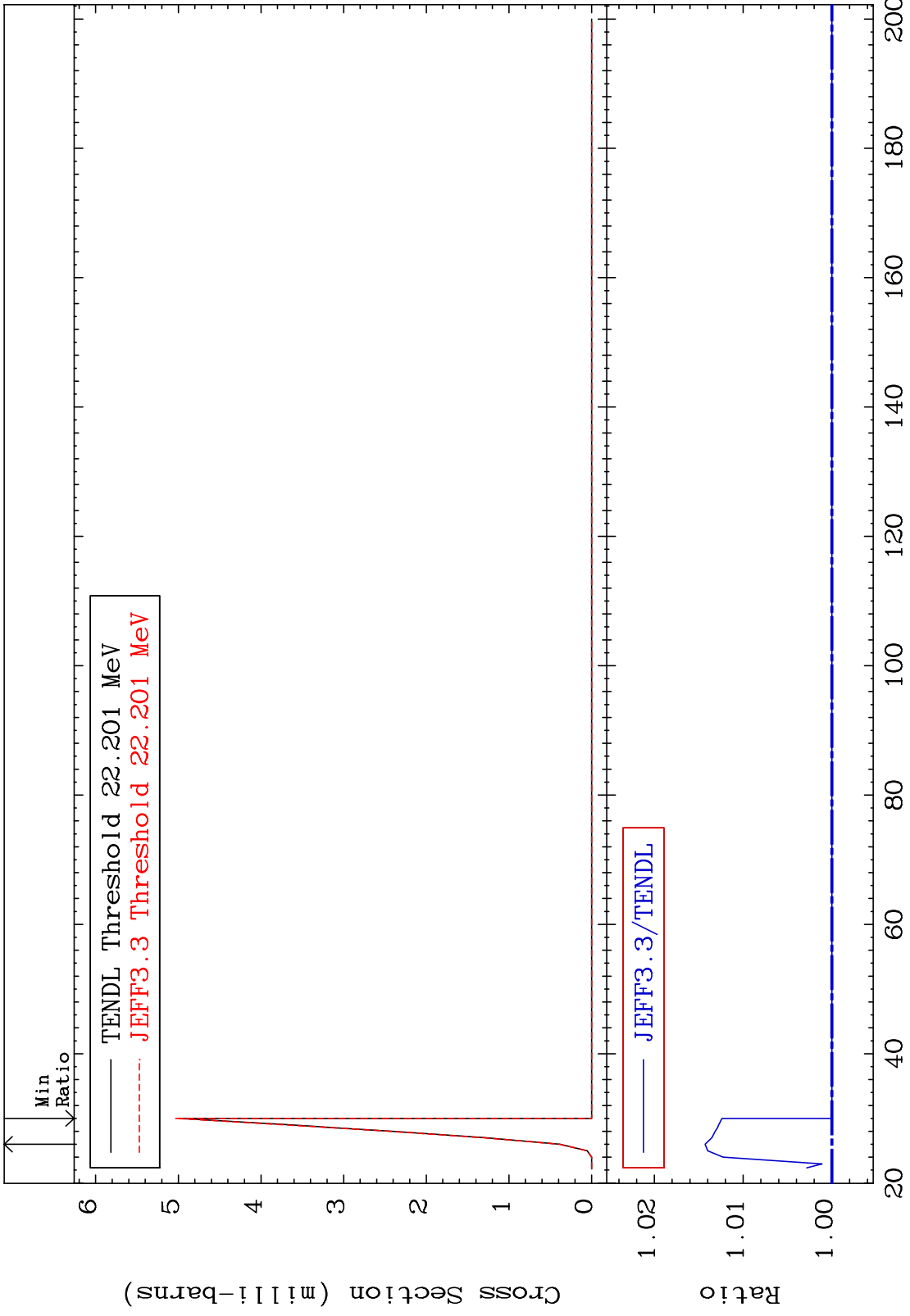


Incident Energy (MeV) 22-Ti-49

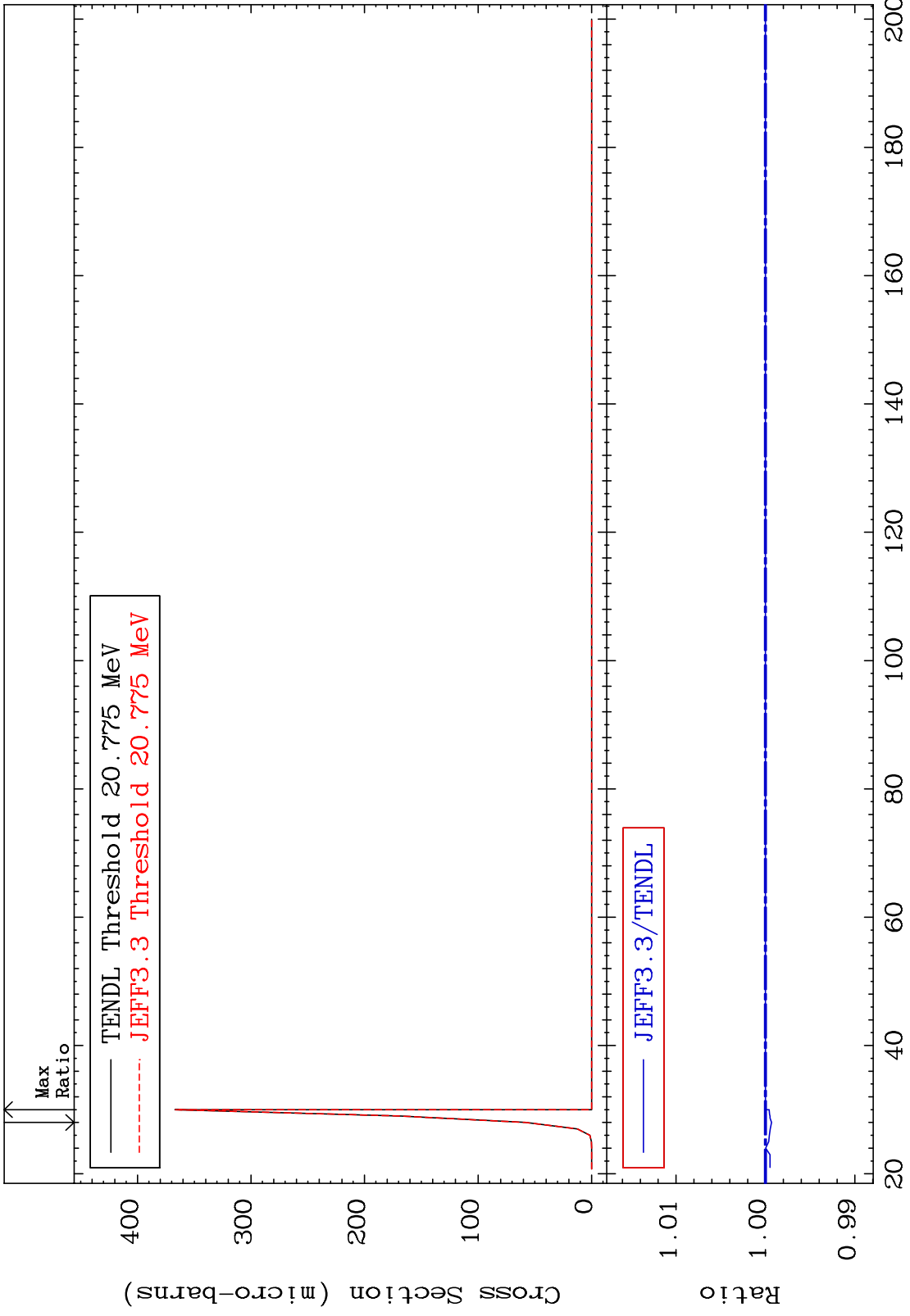
MAT 2234 (n,n') d 22-Ti-49
 Cross Section 0.000 To 1.239 %

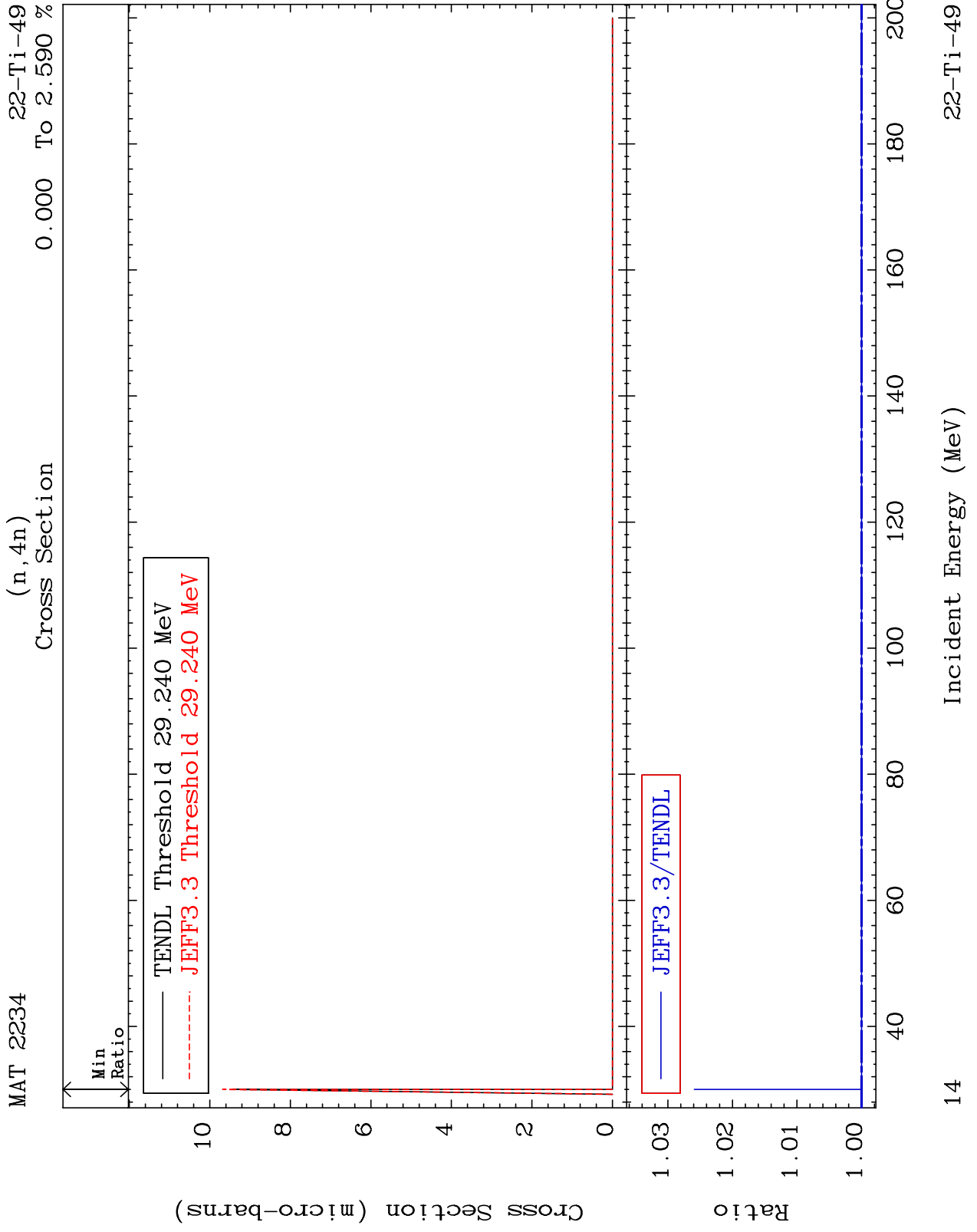


MAT 2234 (n,n') t 22-Ti-49
 Cross Section 0.000 To 1.428 %

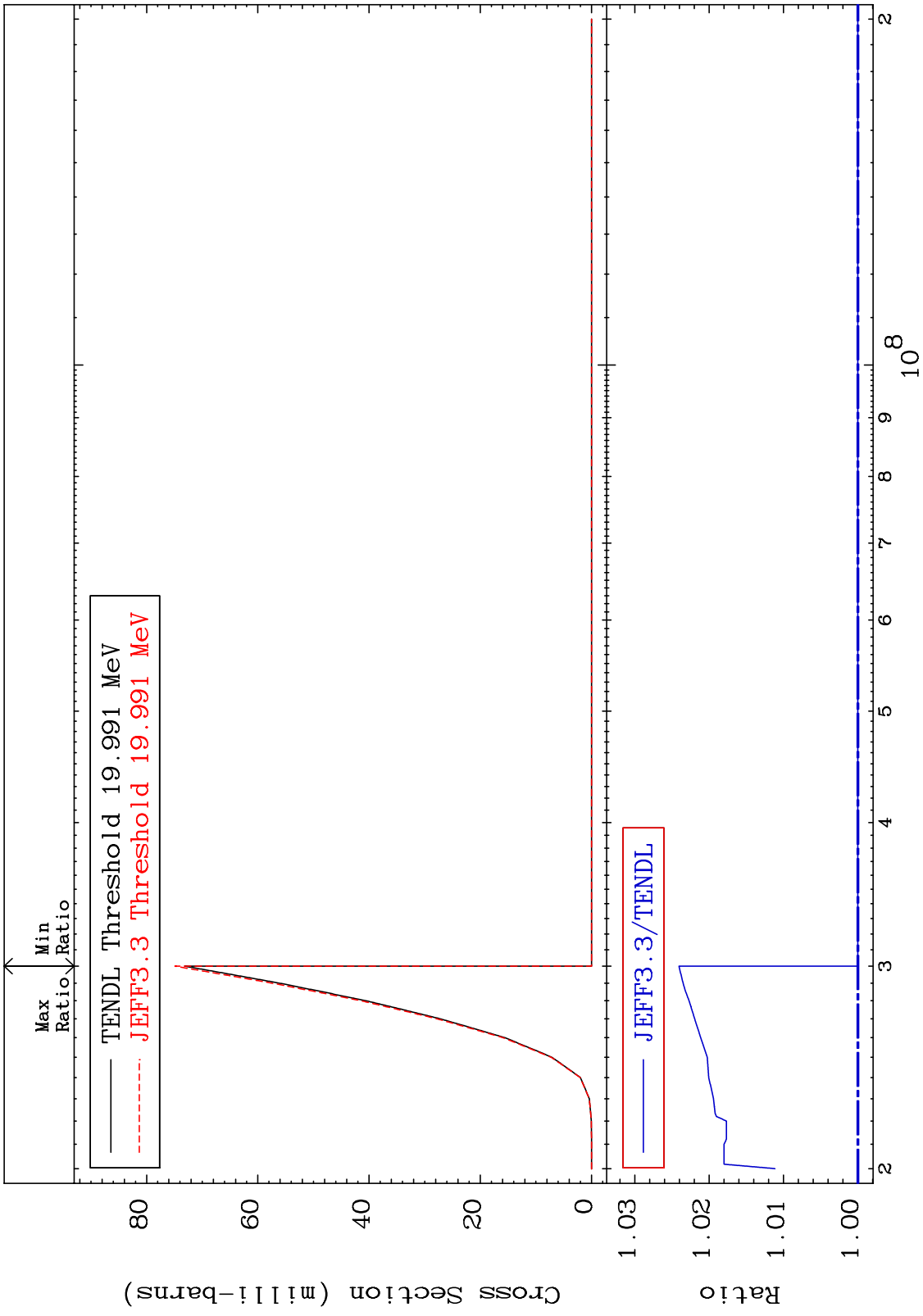


MAT 2234 (n, n') He-3 22-Ti-49
Cross Section -0.068 To 0.000 %

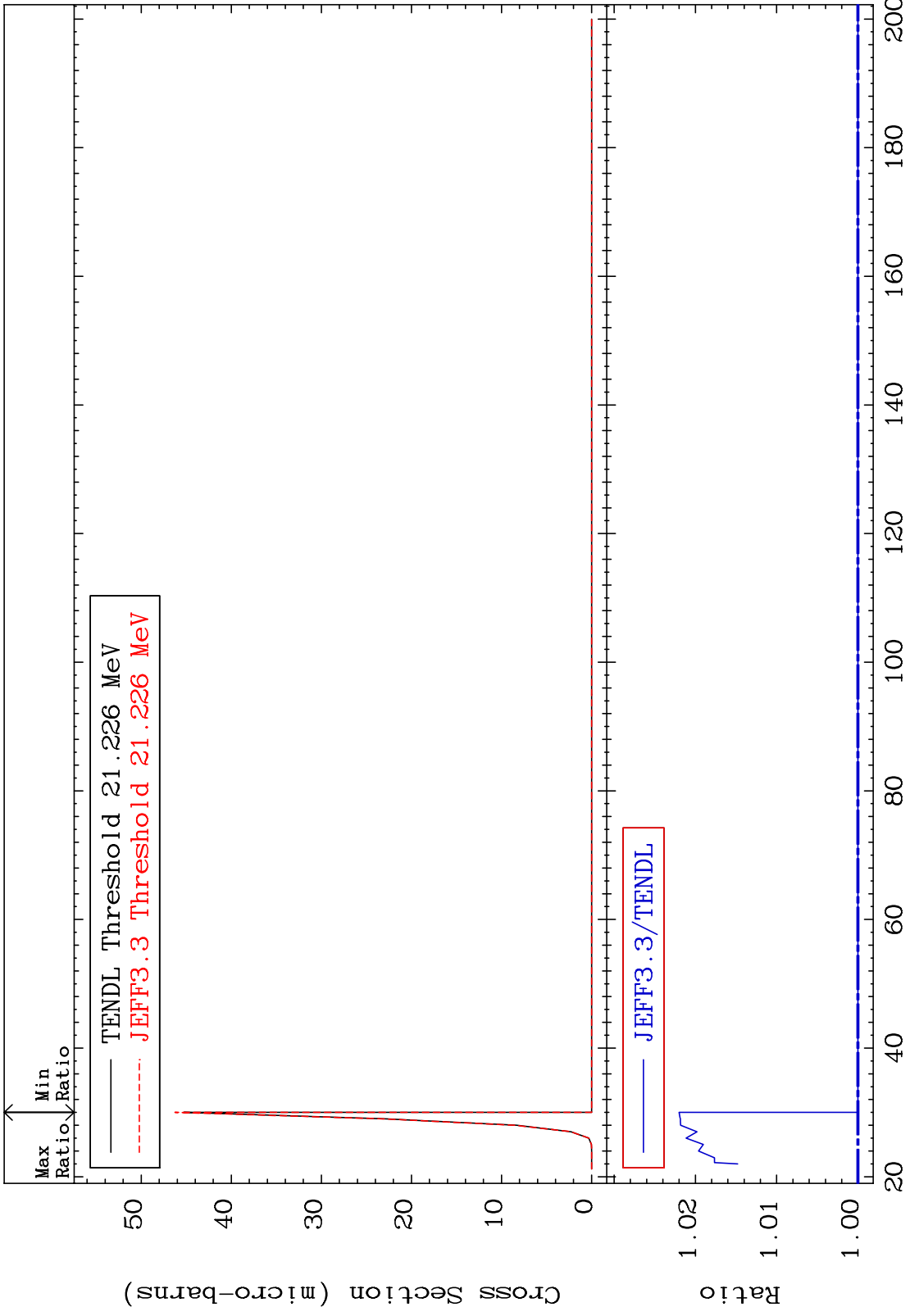




MAT 2234 (n,2n) p 22-Ti-49
 Cross Section 0.000 To 2.406 %

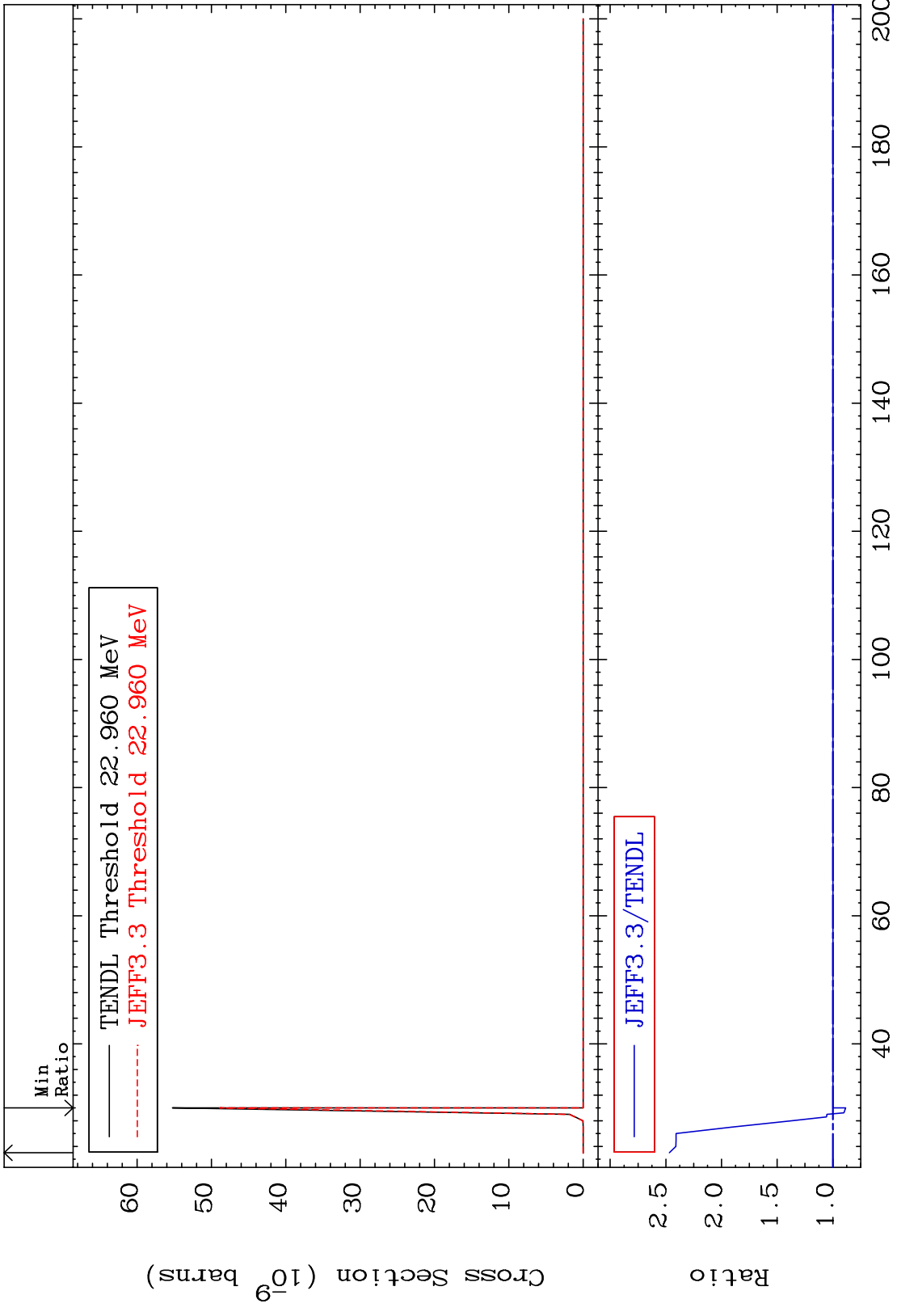


MAT 2234 (n,2n) p 22-Ti-49
 Cross Section 0.000 To 2.200 %

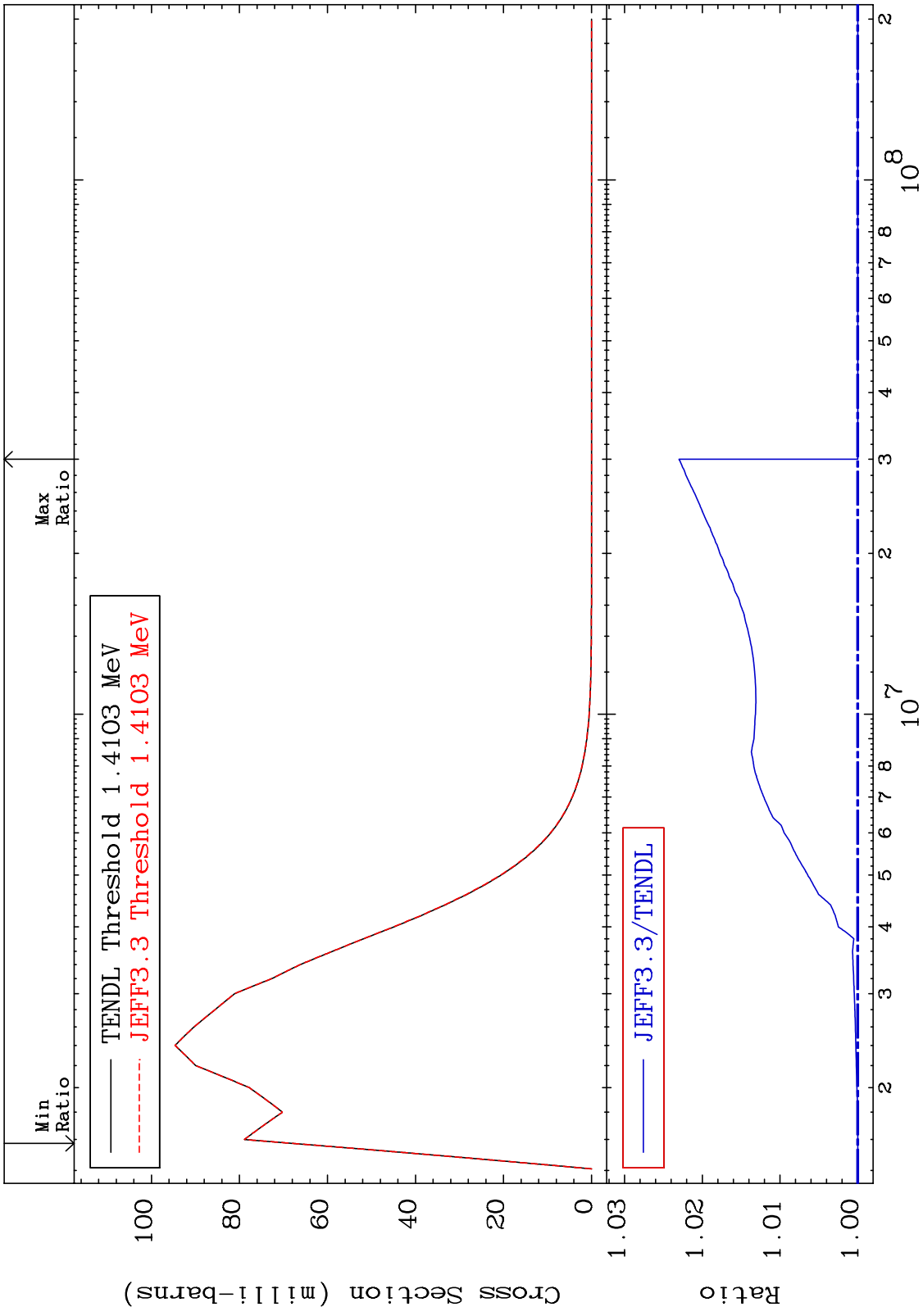


16 Incident Energy (MeV) 22-Ti-49

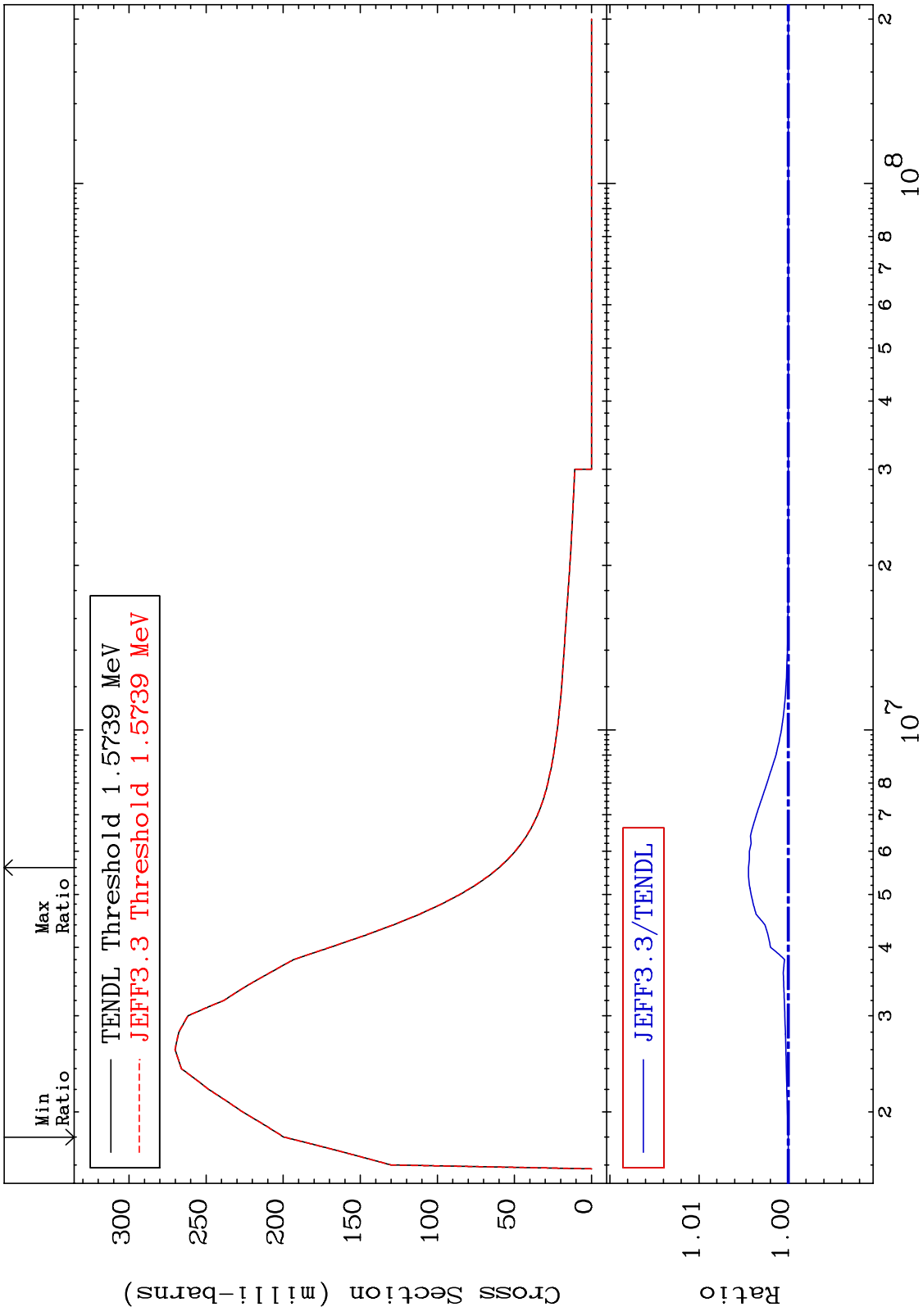
MAT 2234 (n,n') p α 22-Ti-49
Cross Section -11.56 To 146.8 %



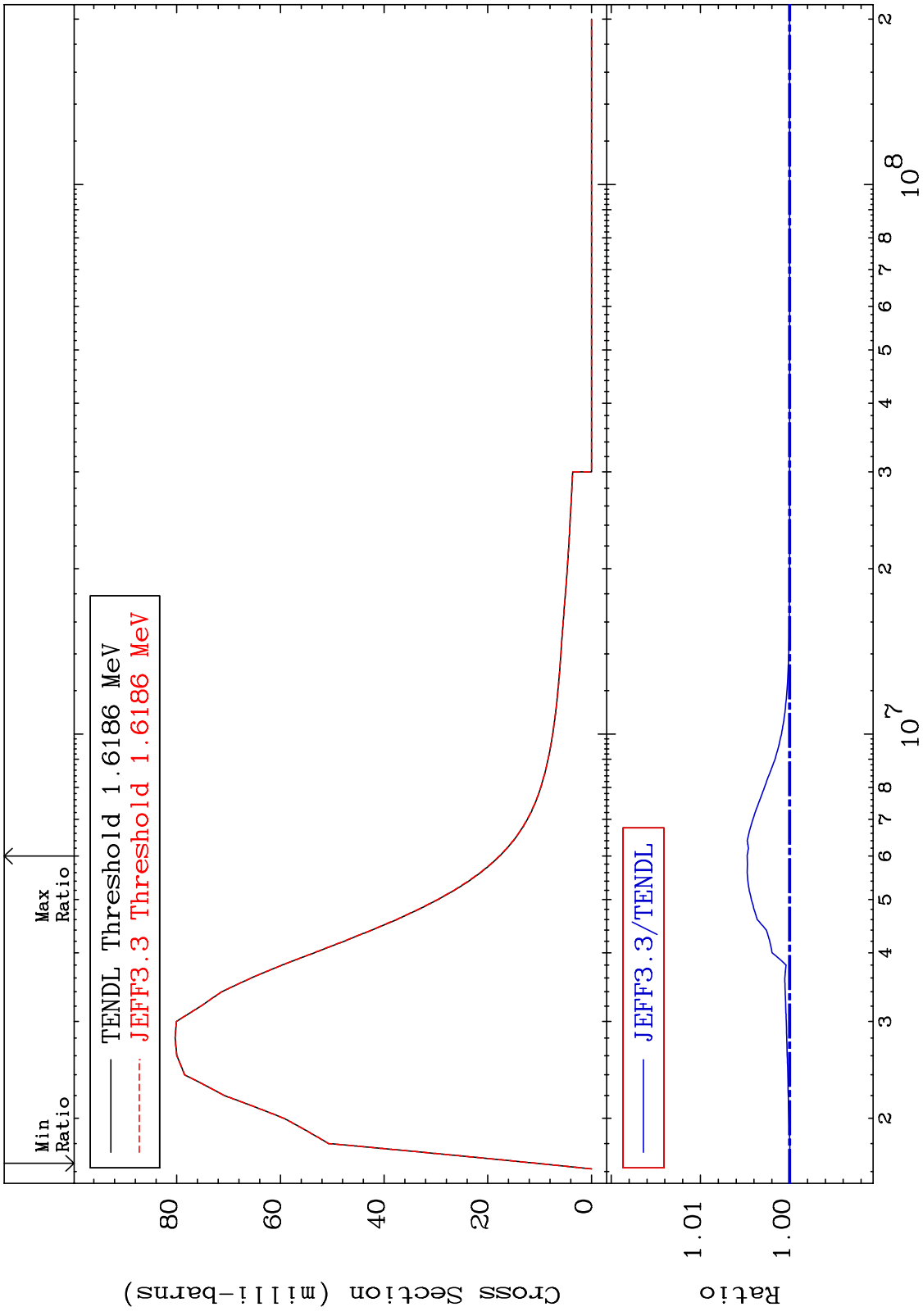
MAT 2234 MT= 51 (n,n') Level Cross Section 22-Ti-49
 -0.002 To 2.299 %



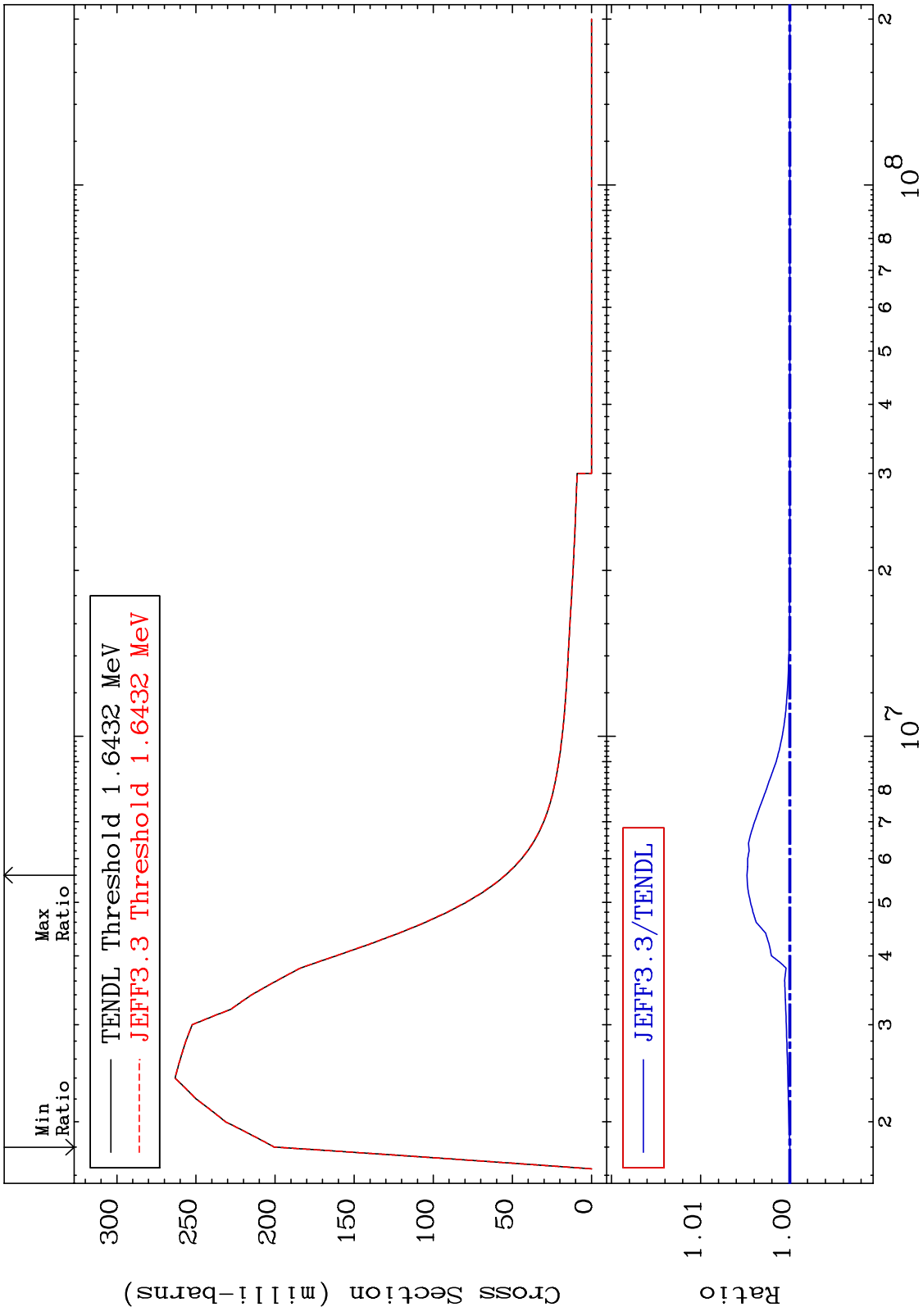
MAT 2234 MT= 52 (n,n') Level Cross Section -0.001 To 0.445 % 22-Ti-49



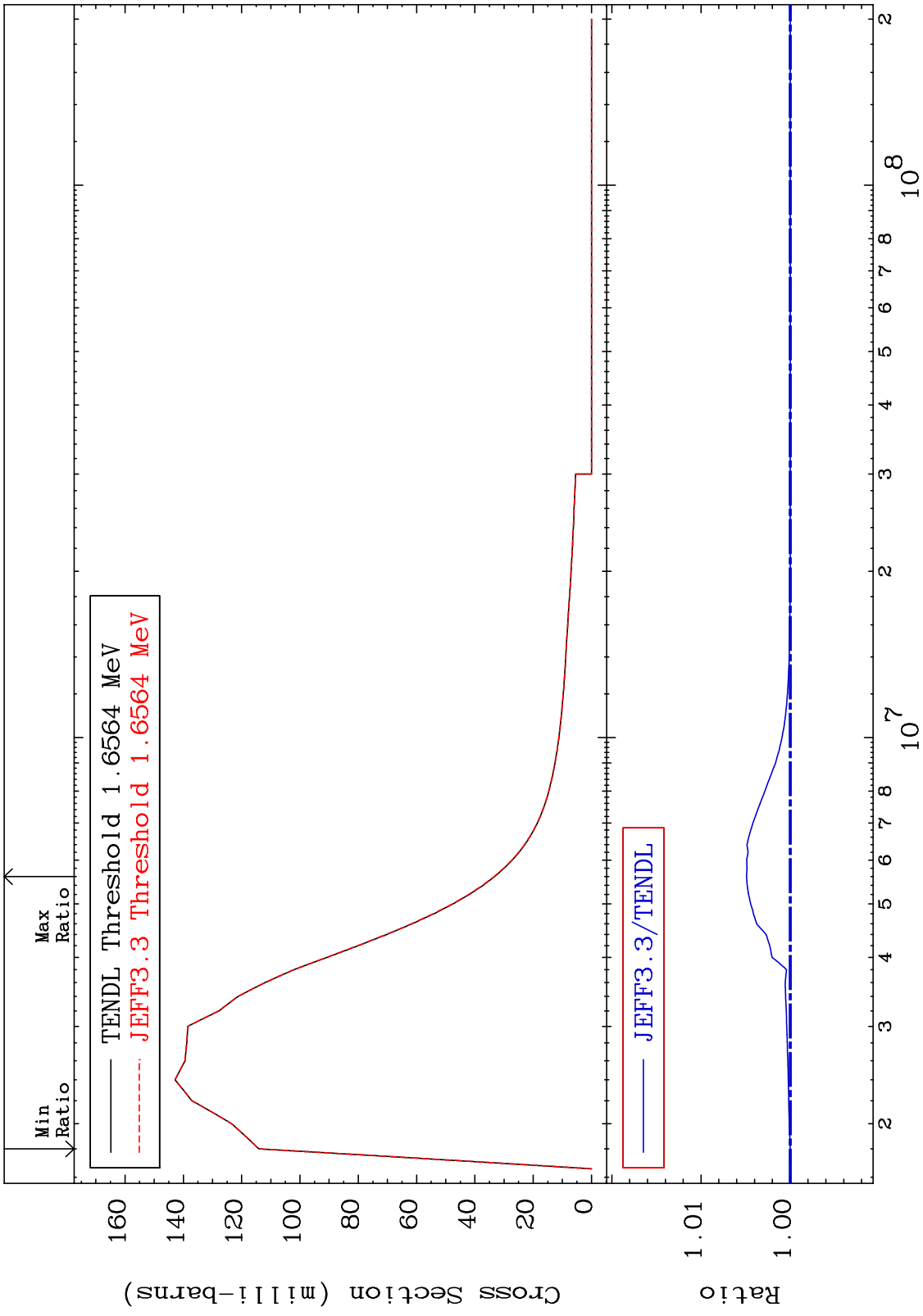
MAT 2234 MT= 53 (n,n') Level Cross Section -0.001 To 0.477 % 22-Ti-49



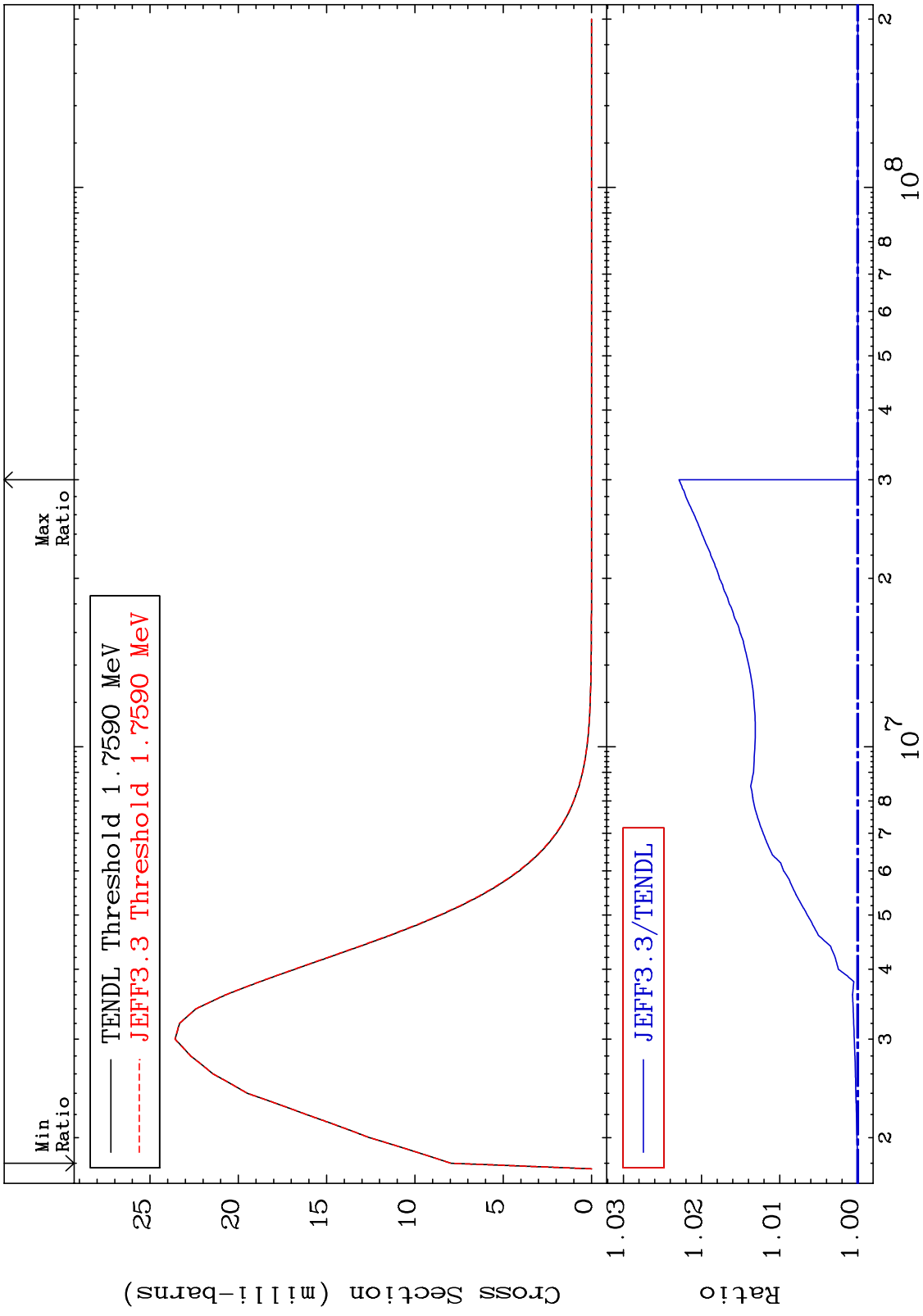
MAT 2234 MT= 54 (n,n') Level Cross Section 22-Ti-49 To 0.479 %



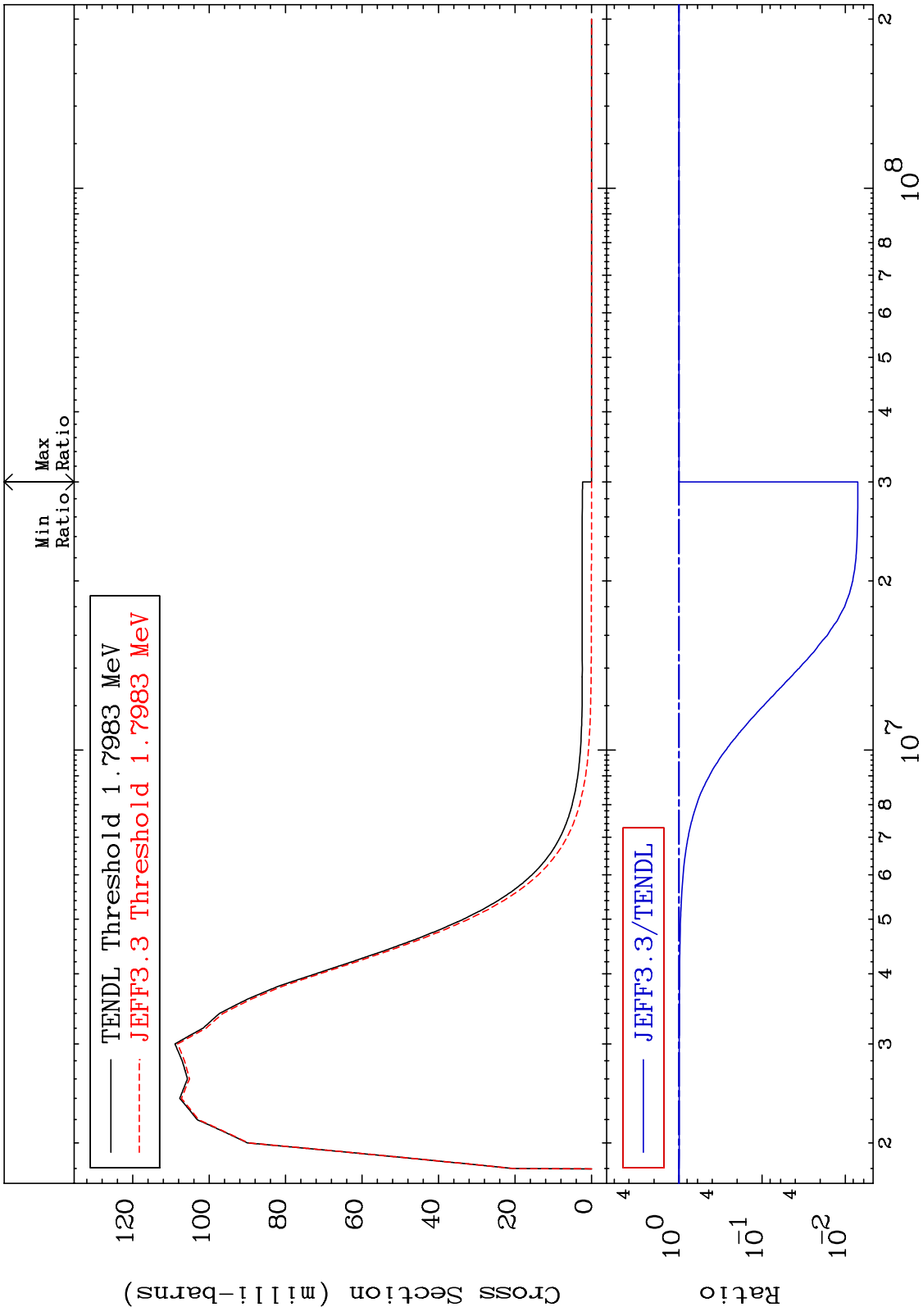
MAT 2234 MT= 55 (n,n') Level Cross Section 22-Ti-49 To 0.489 %



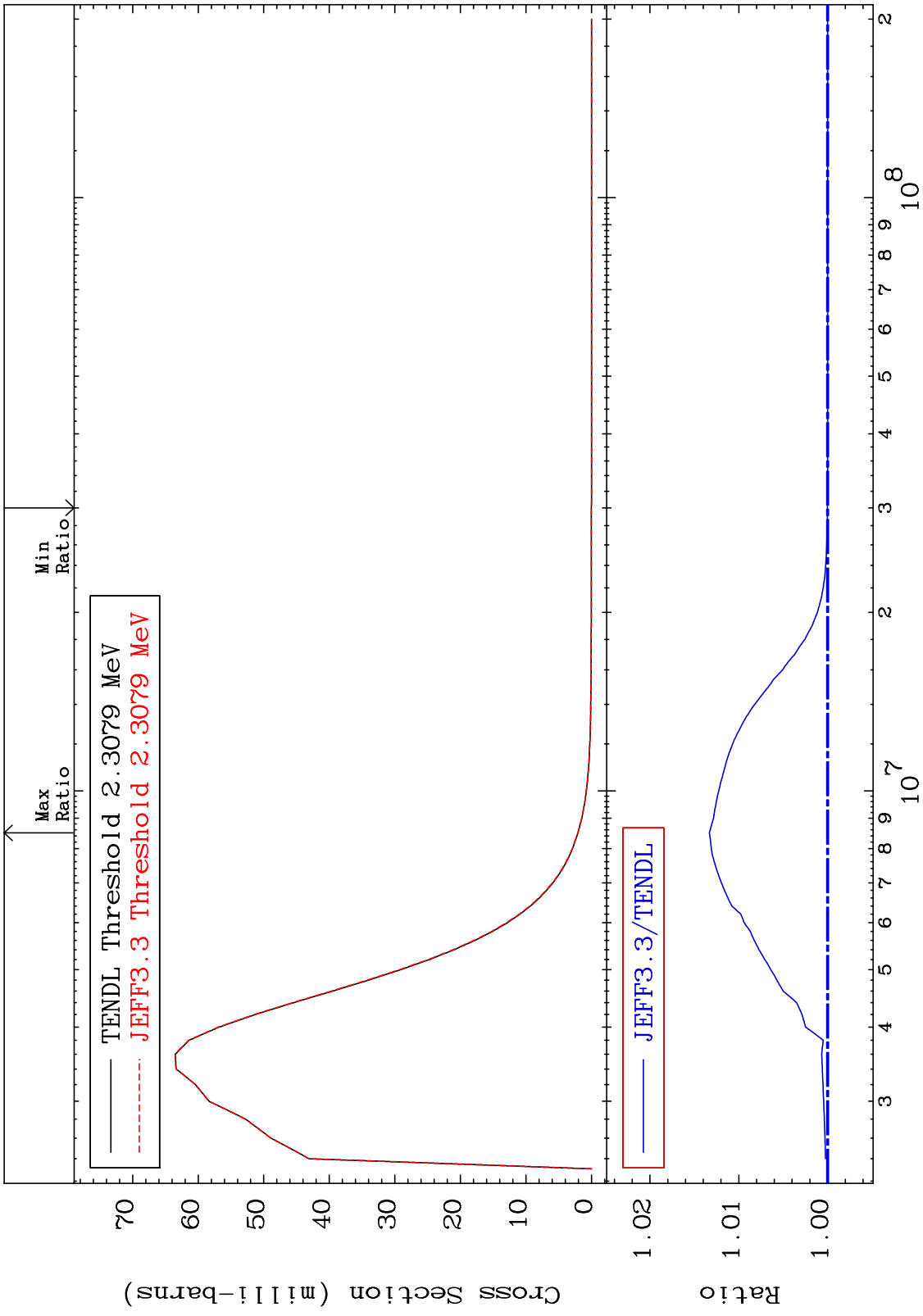
MAT 2234 MT= 56 (n,n') Level Cross Section 22-Ti-49 To 2.288 %



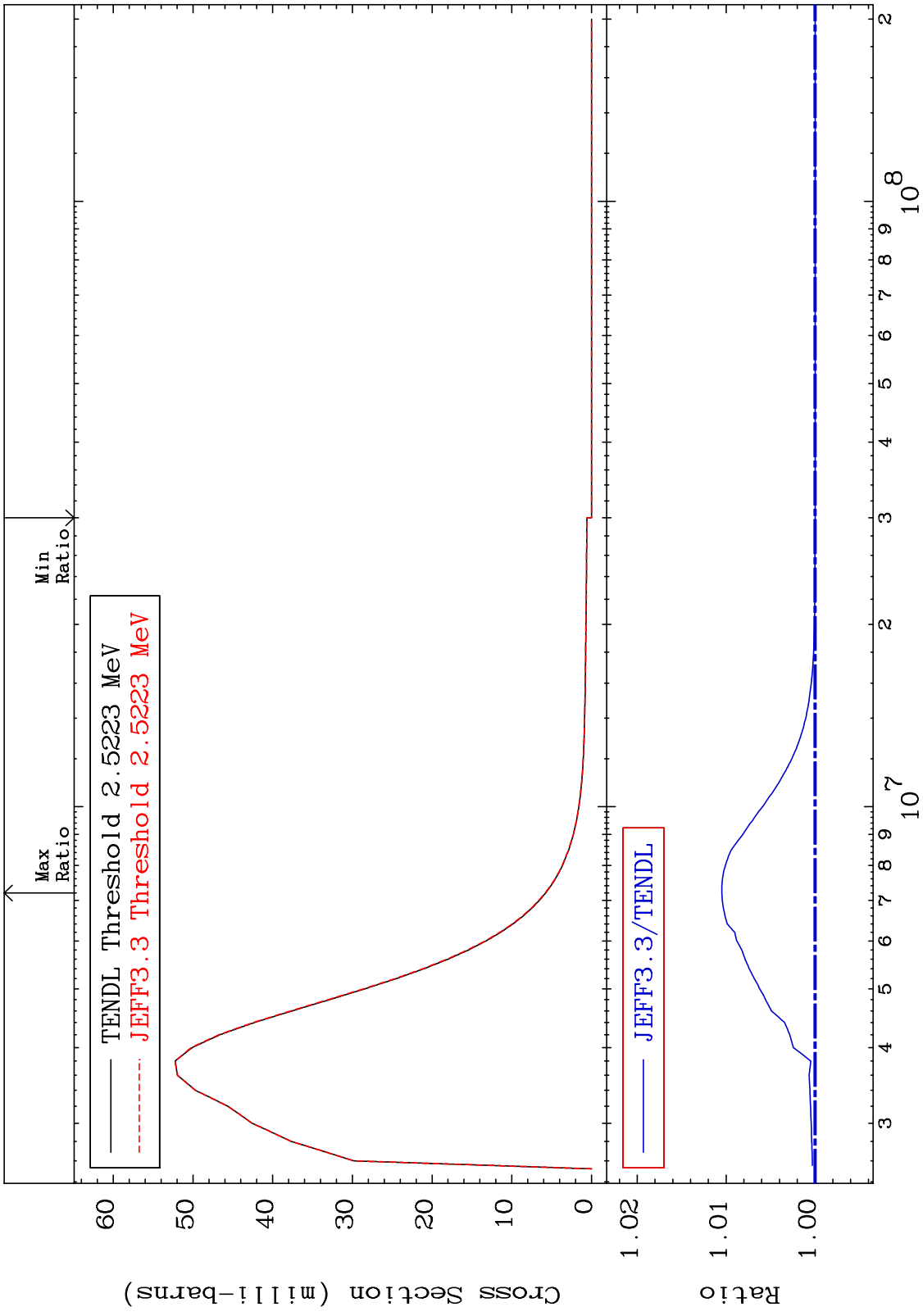
MAT 2234 MT= 57 (n,n') Level Cross Section -99.29 To 0.000 % 22-Ti-49



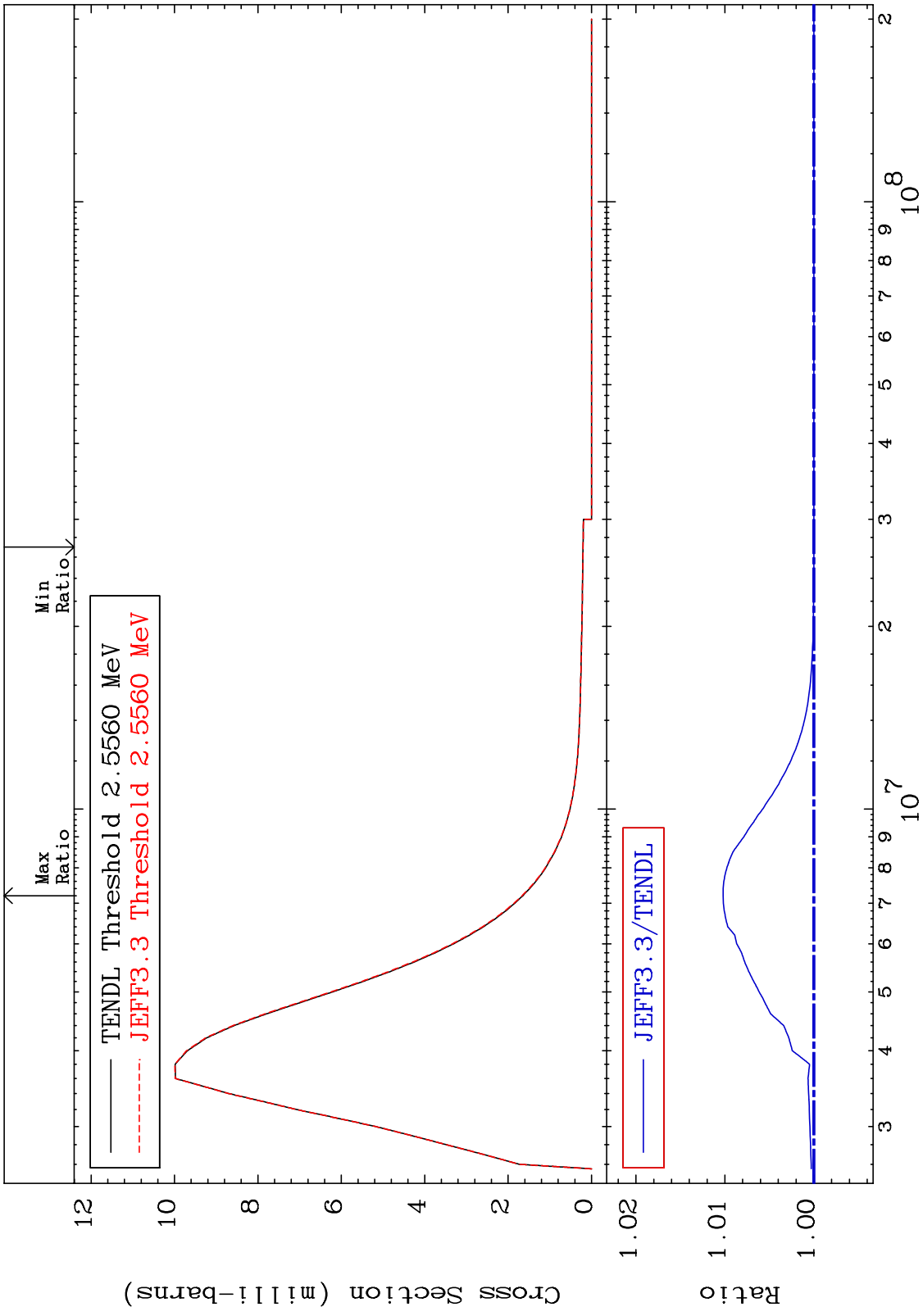
MAT 2234 MT= 58 (n,n') Level Cross Section 22-Ti-49 0.000 To 1.332 %



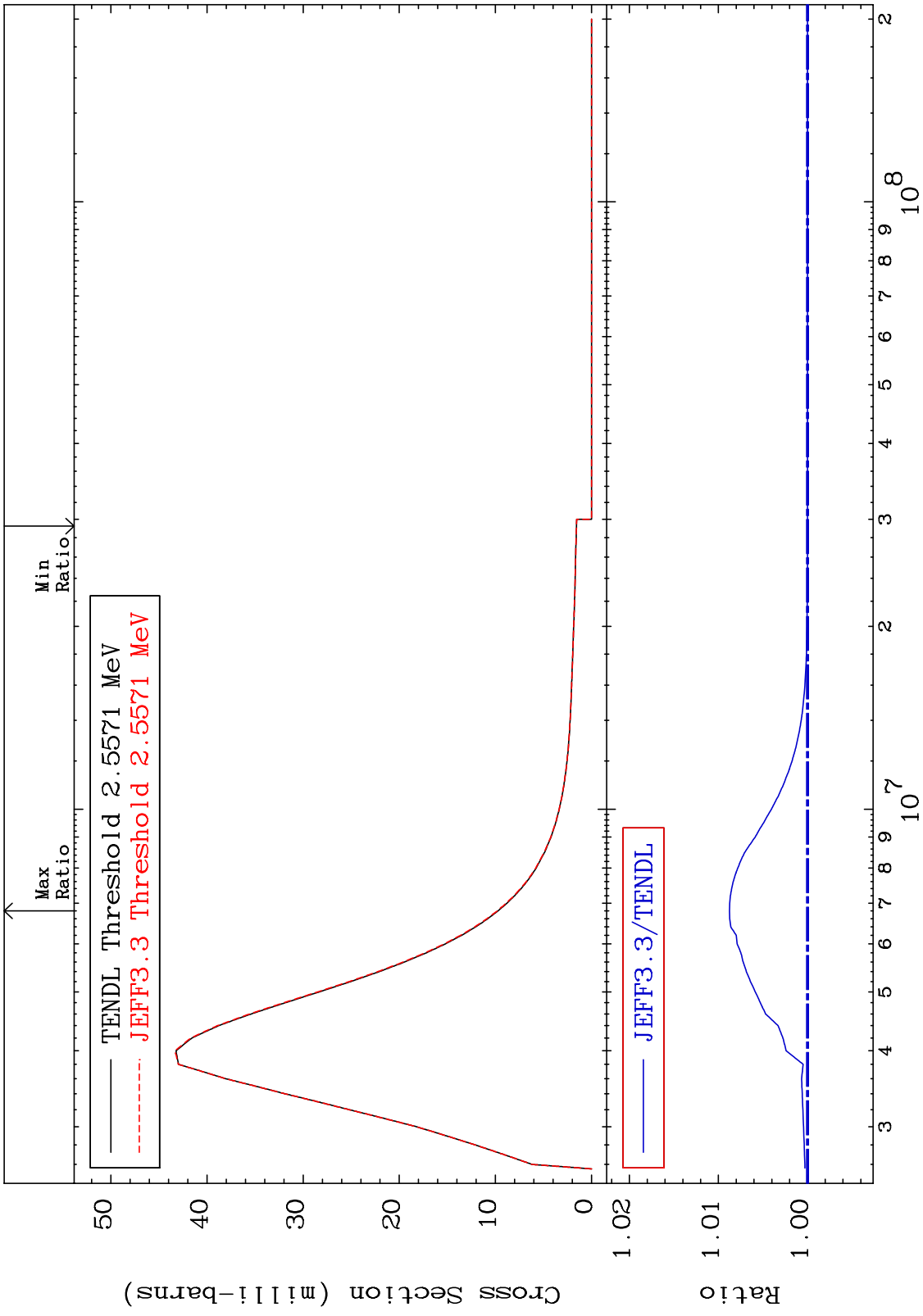
MAT 2234 MT= 59 (n,n') Level Cross Section 22-Ti-49 To 1.048 %



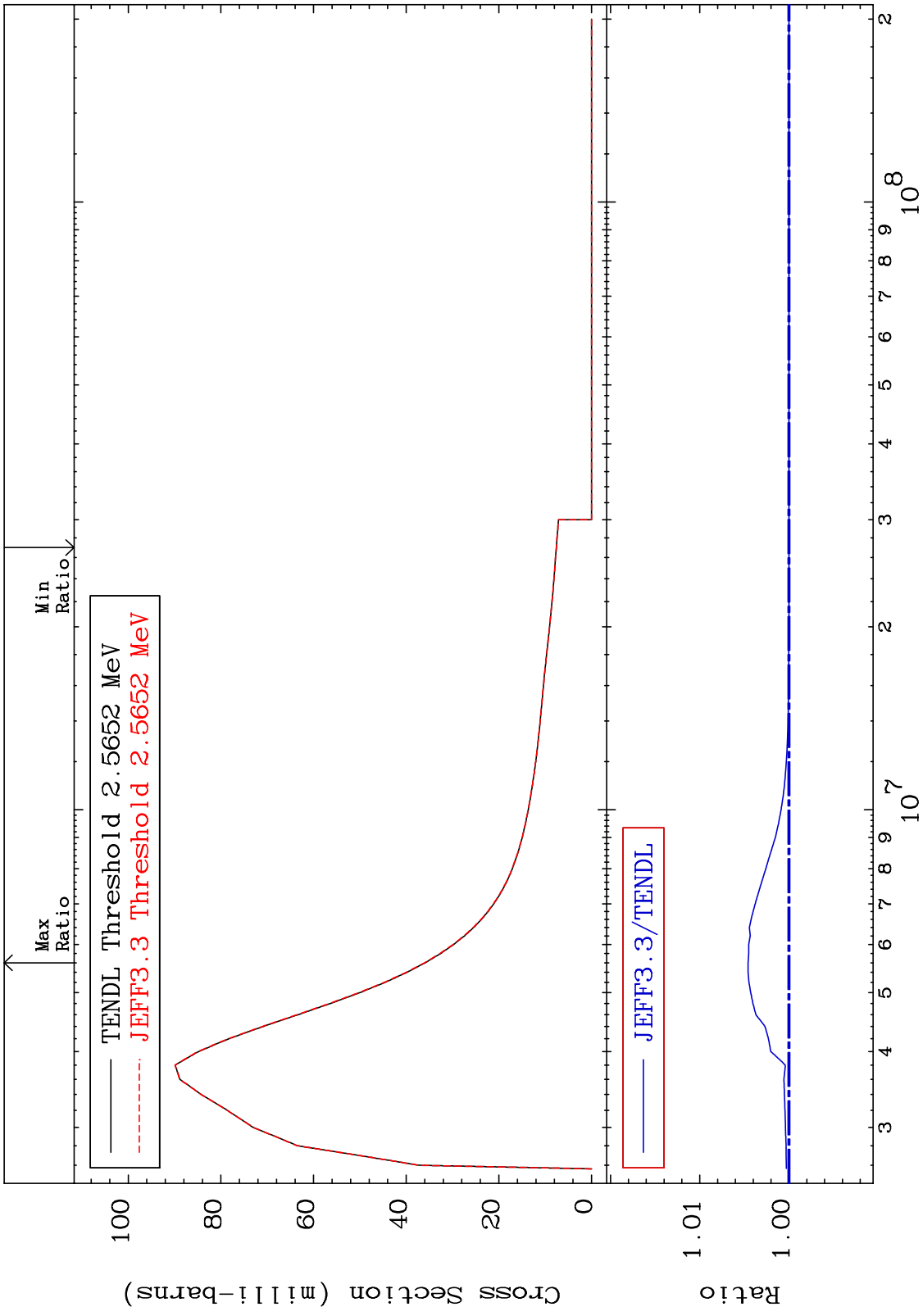
MAT 2234 MT= 60 (n,n') Level Cross Section 22-Ti-49 To 1.021 %



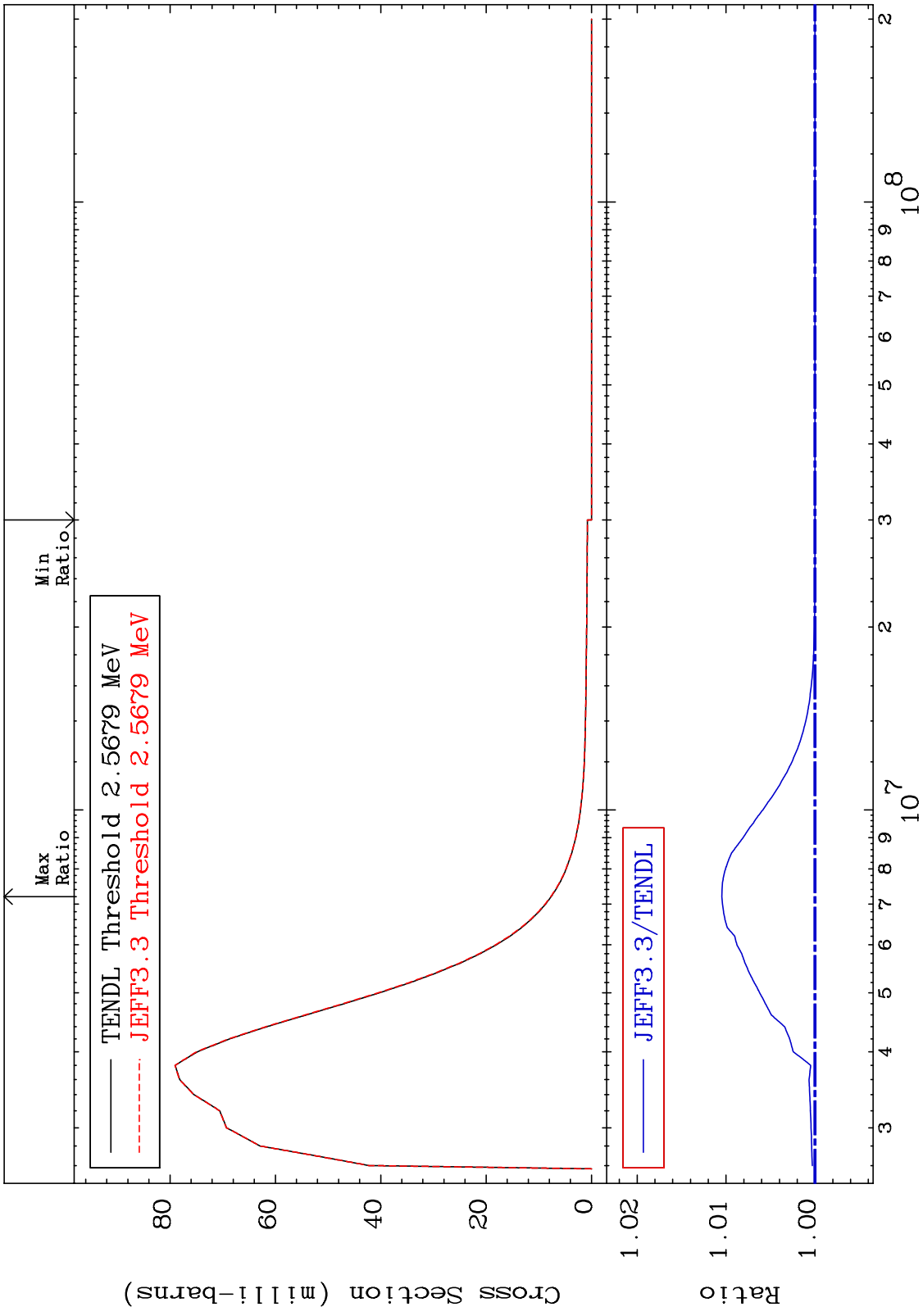
MAT 2234 MT= 61 (n,n') Level Cross Section 22-Ti-49 To 0.876 %



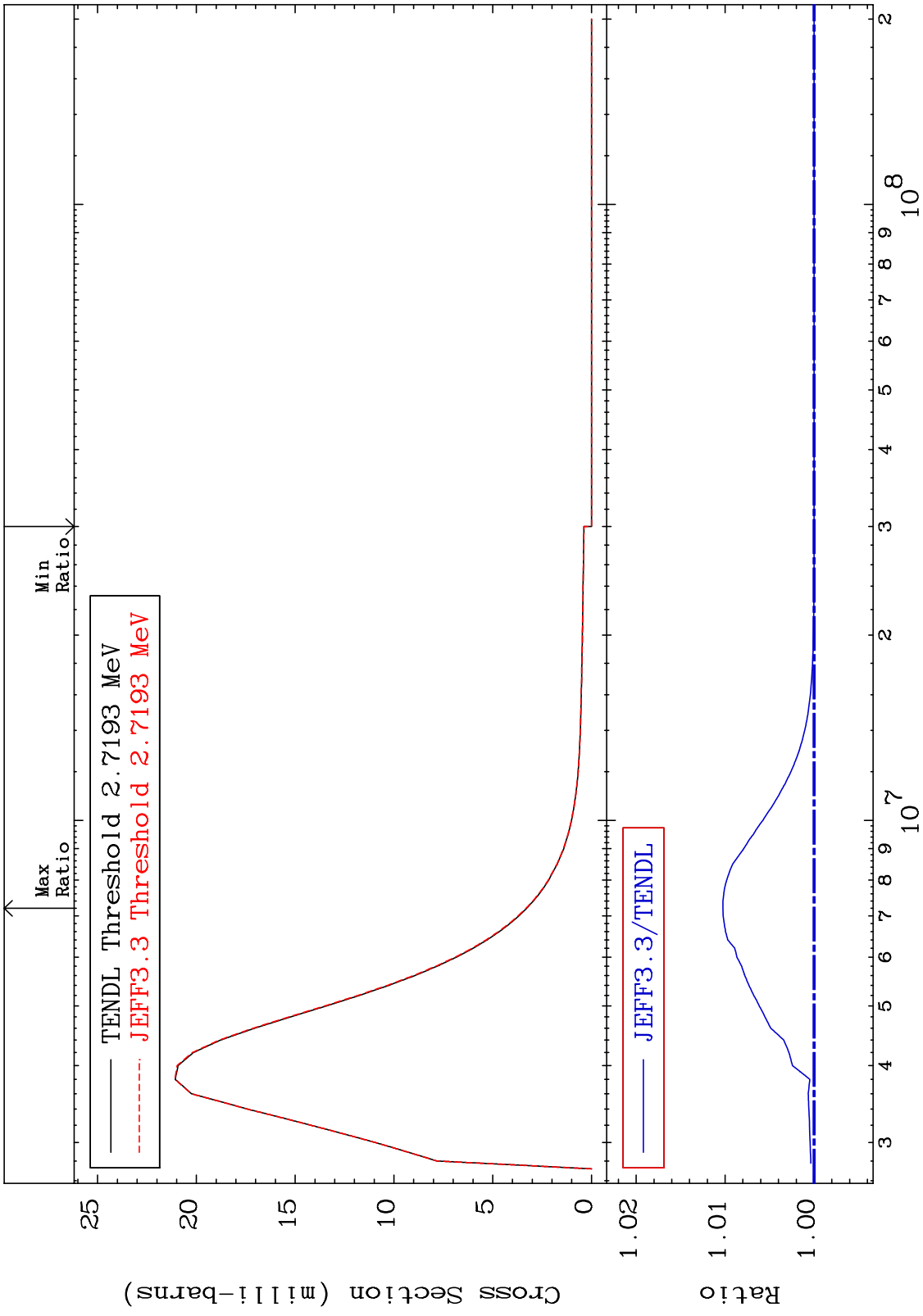
MAT 2234 MT= 62 (n,n') Level Cross Section 22-Ti-49 To 0.459 %



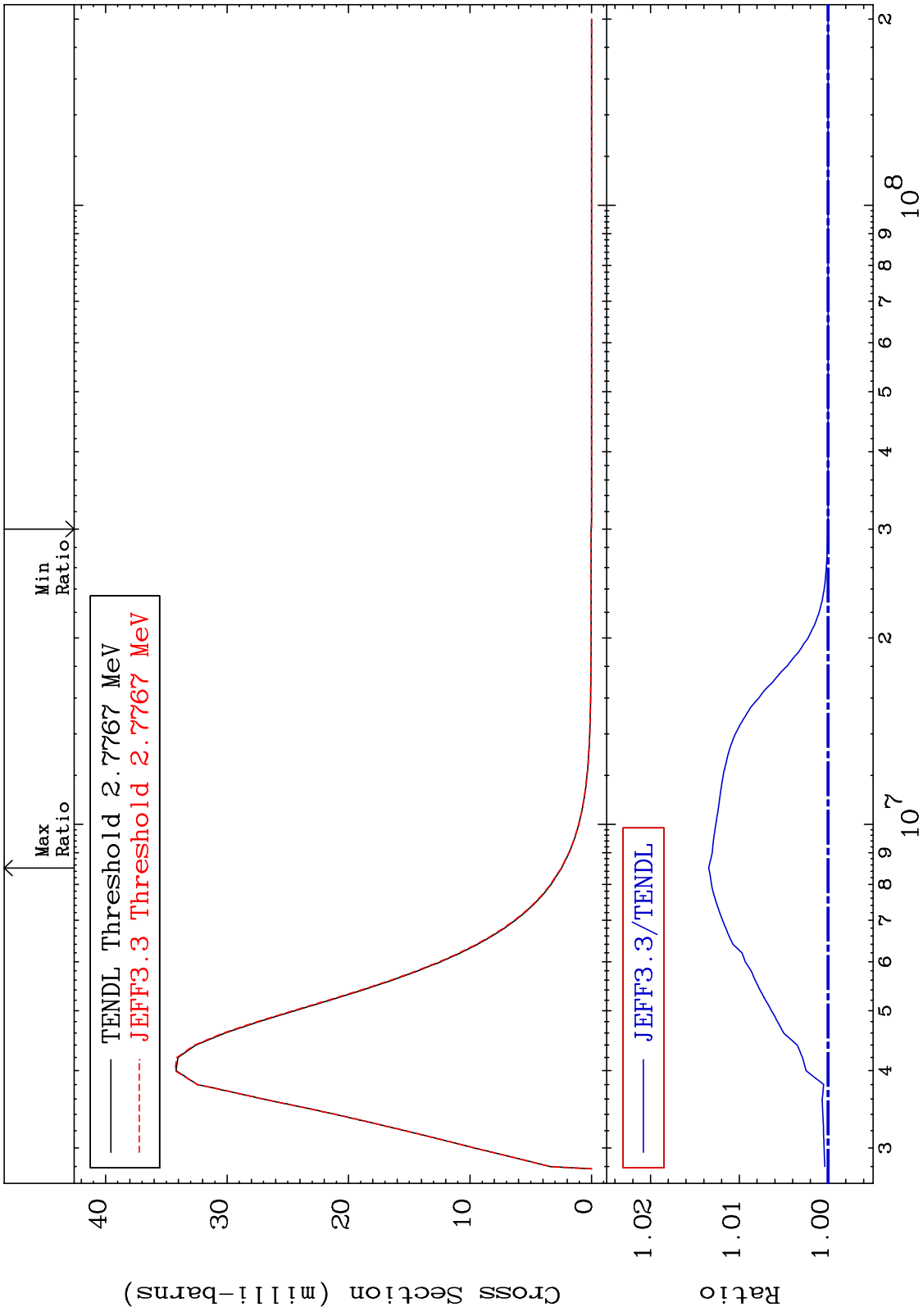
MAT 2234 MT= 63 (n,n') Level Cross Section 22-Ti-49 To 1.047 %



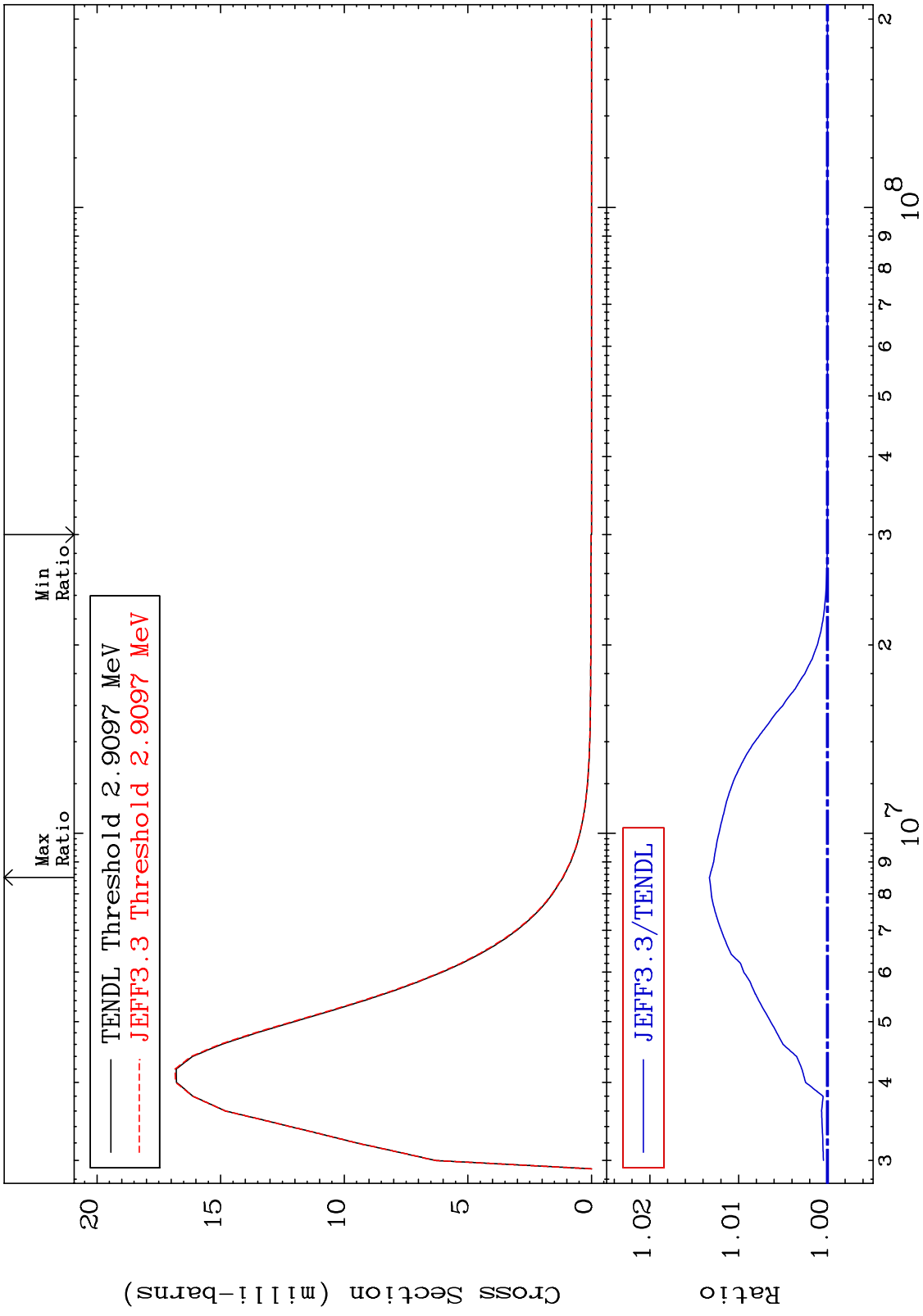
MAT 2234 MT= 64 (n,n') Level Cross Section 22-Ti-49 To 1.026 %



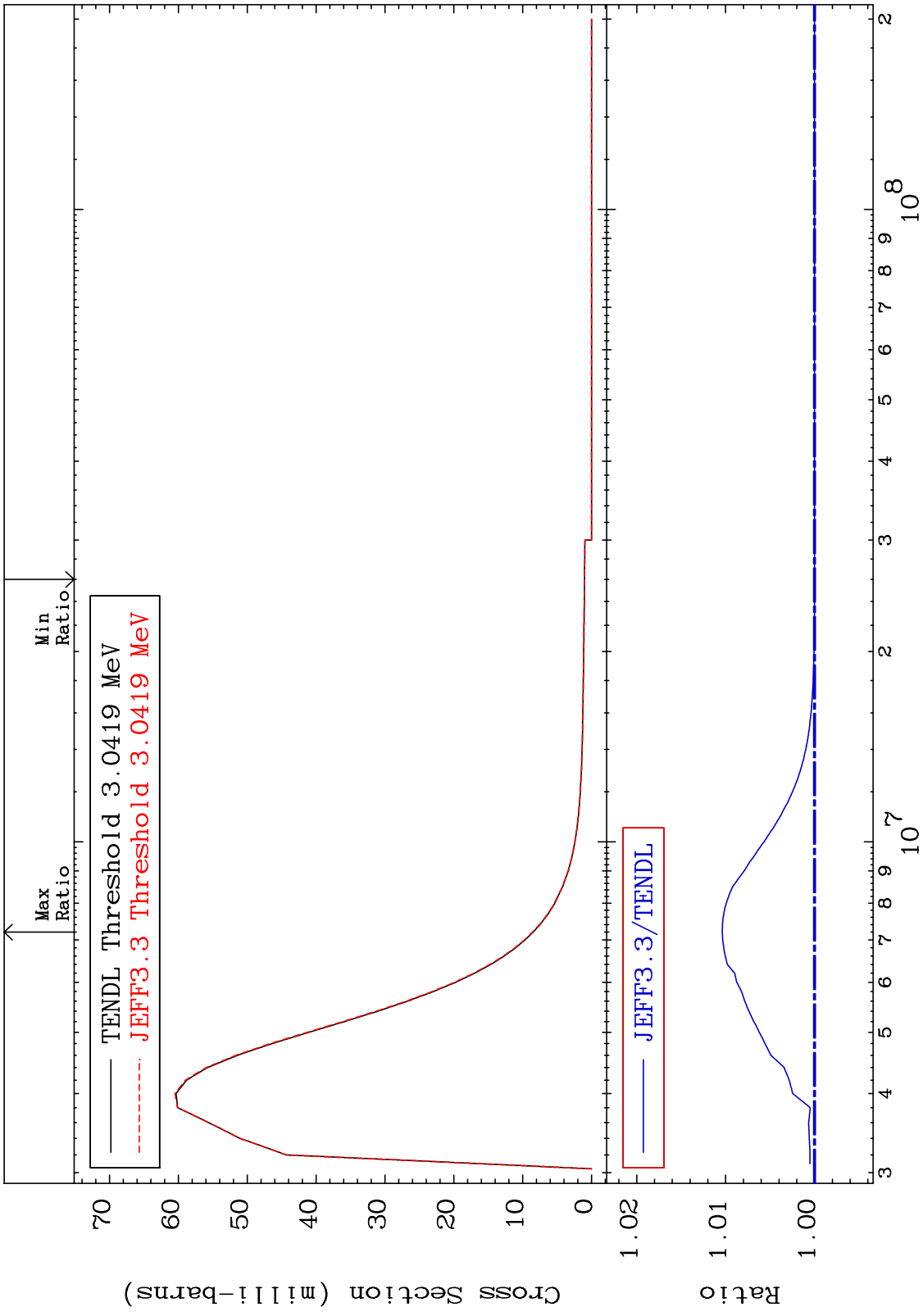
MAT 2234 MT= 65 (n,n') Level Cross Section 22-Ti-49 To 1.344 %



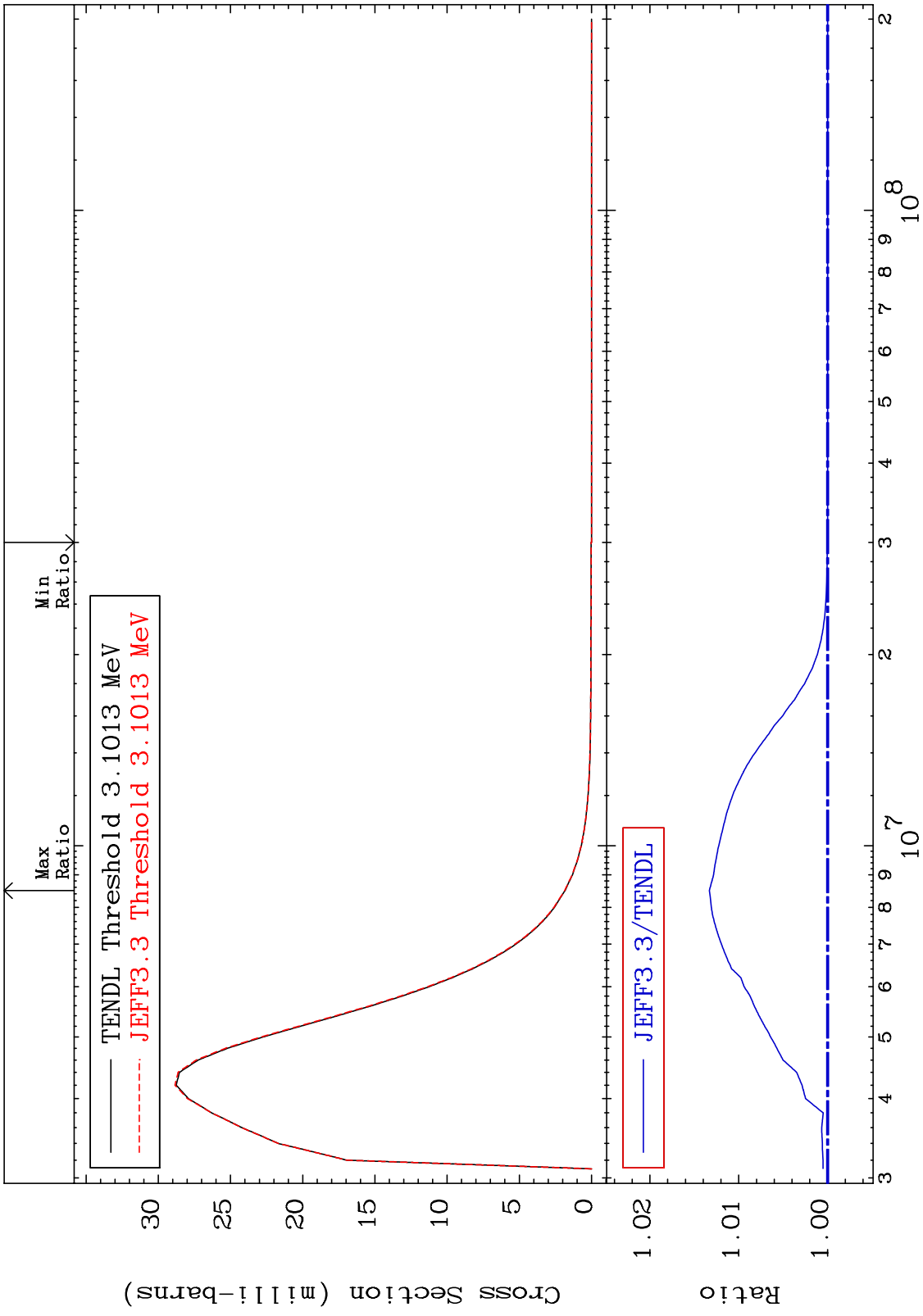
MAT 2234 MT= 66 (n,n') Level Cross Section 22-Ti-49 To 1.329 %



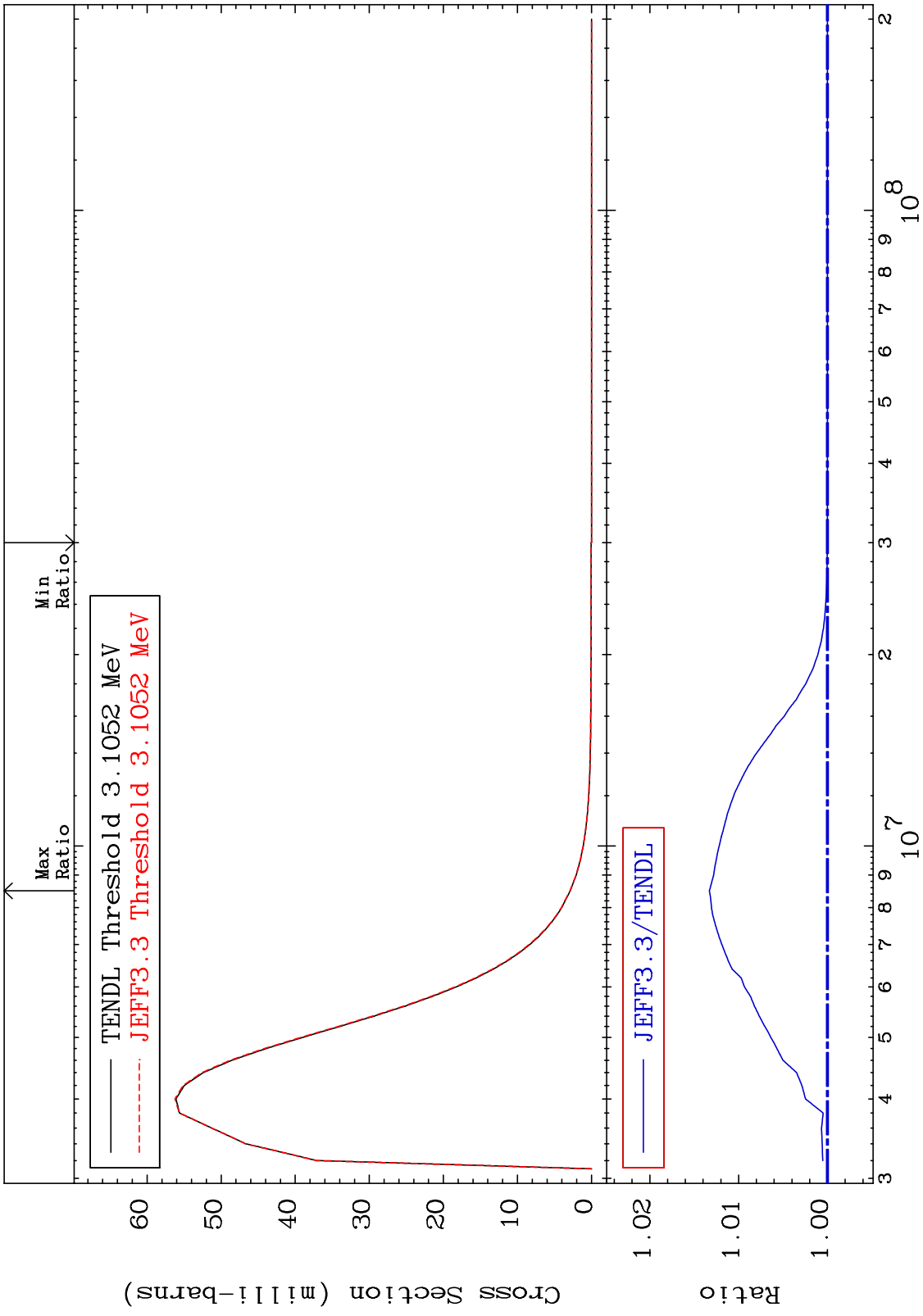
MAT 2234 MT= 67 (n,n') Level Cross Section 22-Ti-49 To 1.037 %



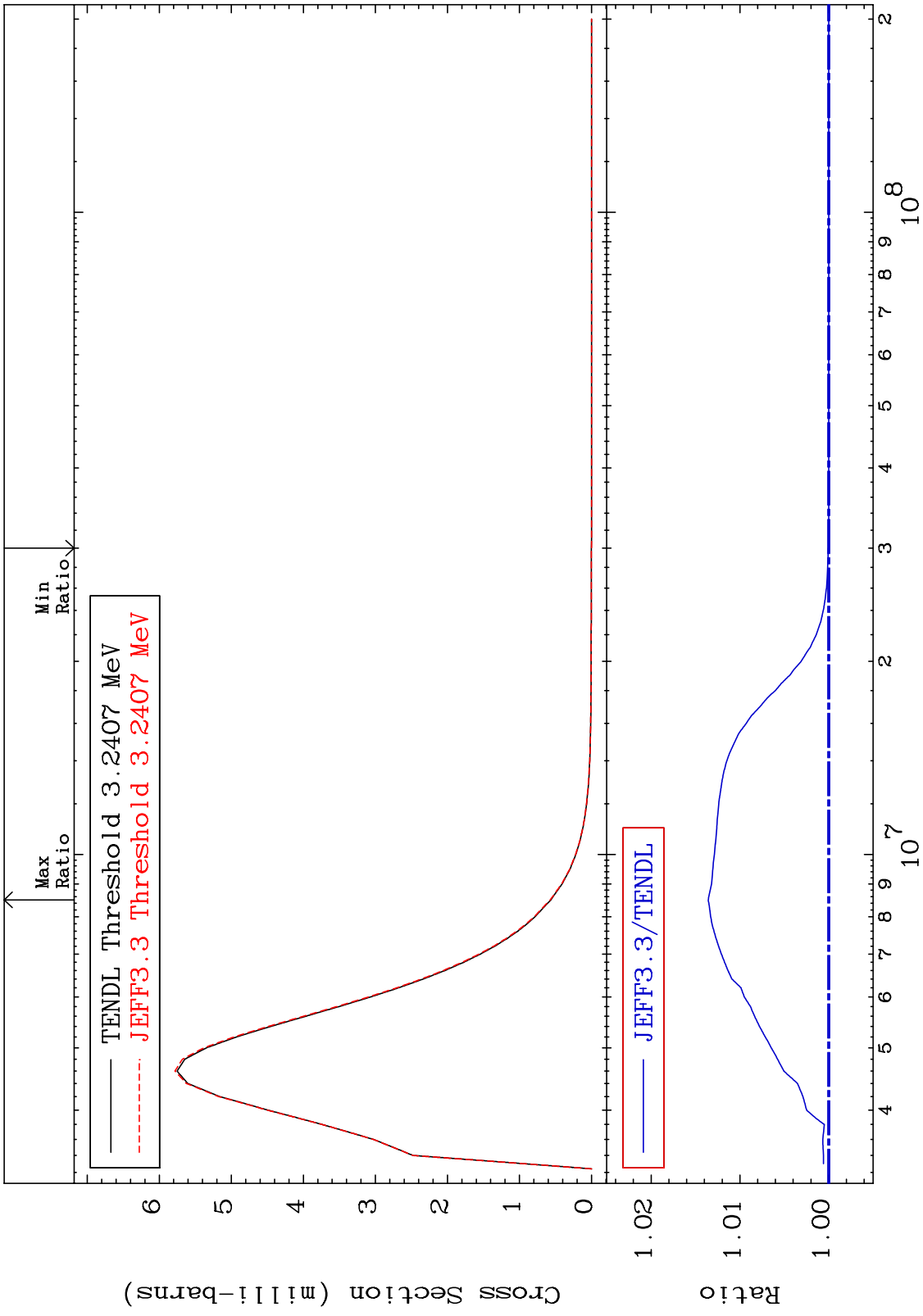
MAT 2234 MT= 68 (n,n') Level Cross Section 22-Ti-49 0.000 To 1.331 %



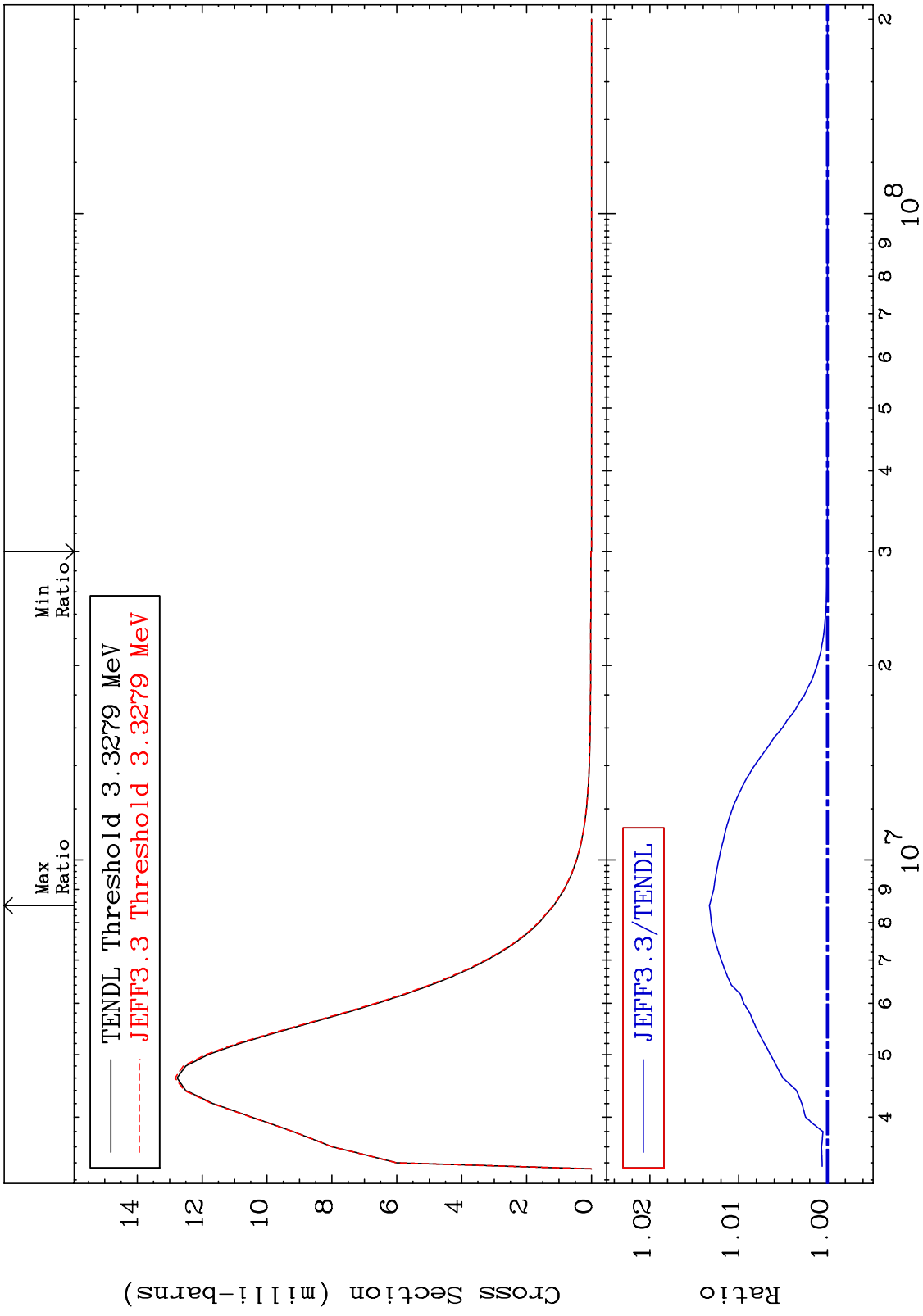
MAT 2234 MT= 69 (n,n') Level Cross Section 22-Ti-49 To 1.329 %



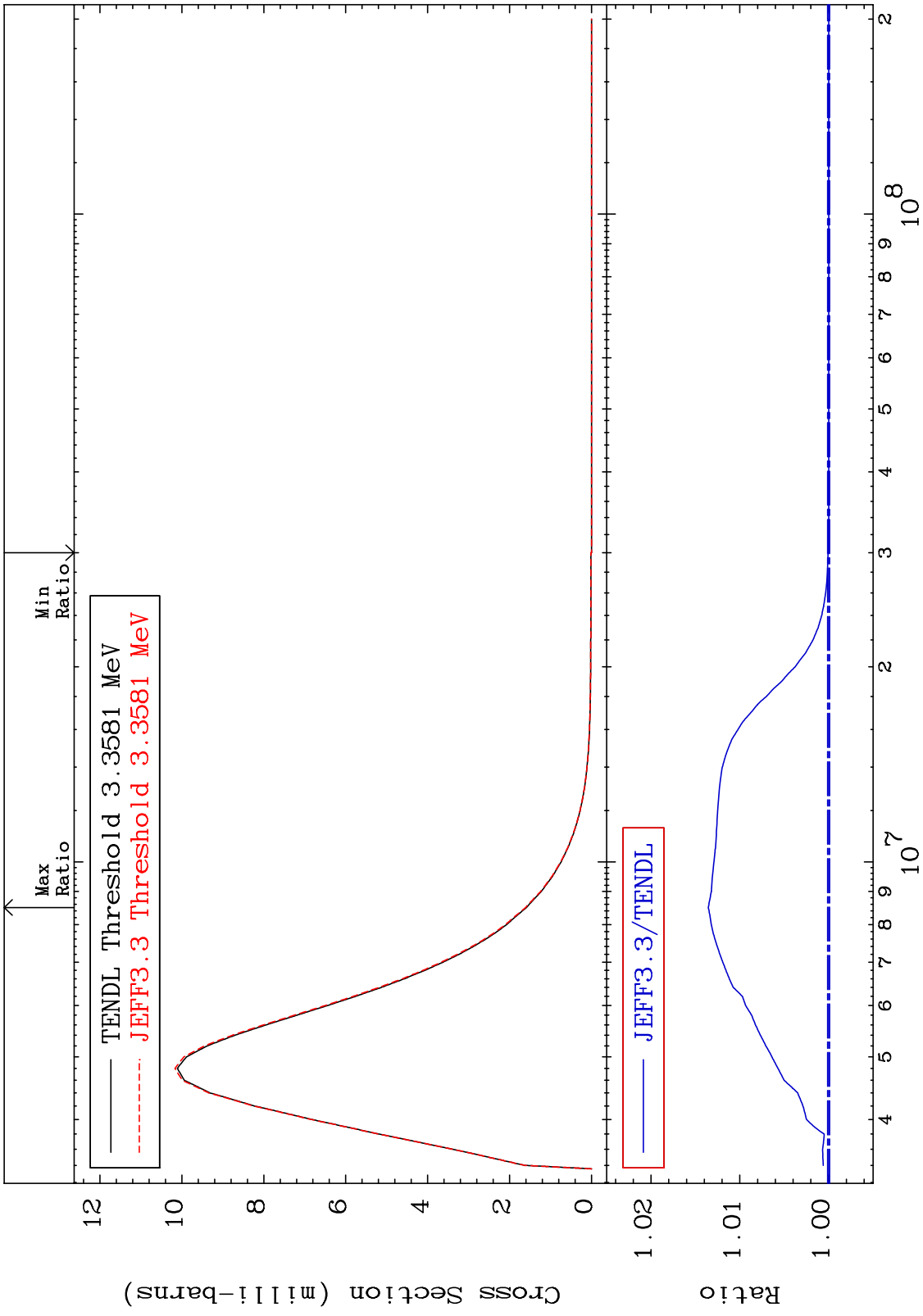
MAT 2234 MT= 70 (n,n') Level Cross Section 22-Ti-49 0.000 To 1.357 %



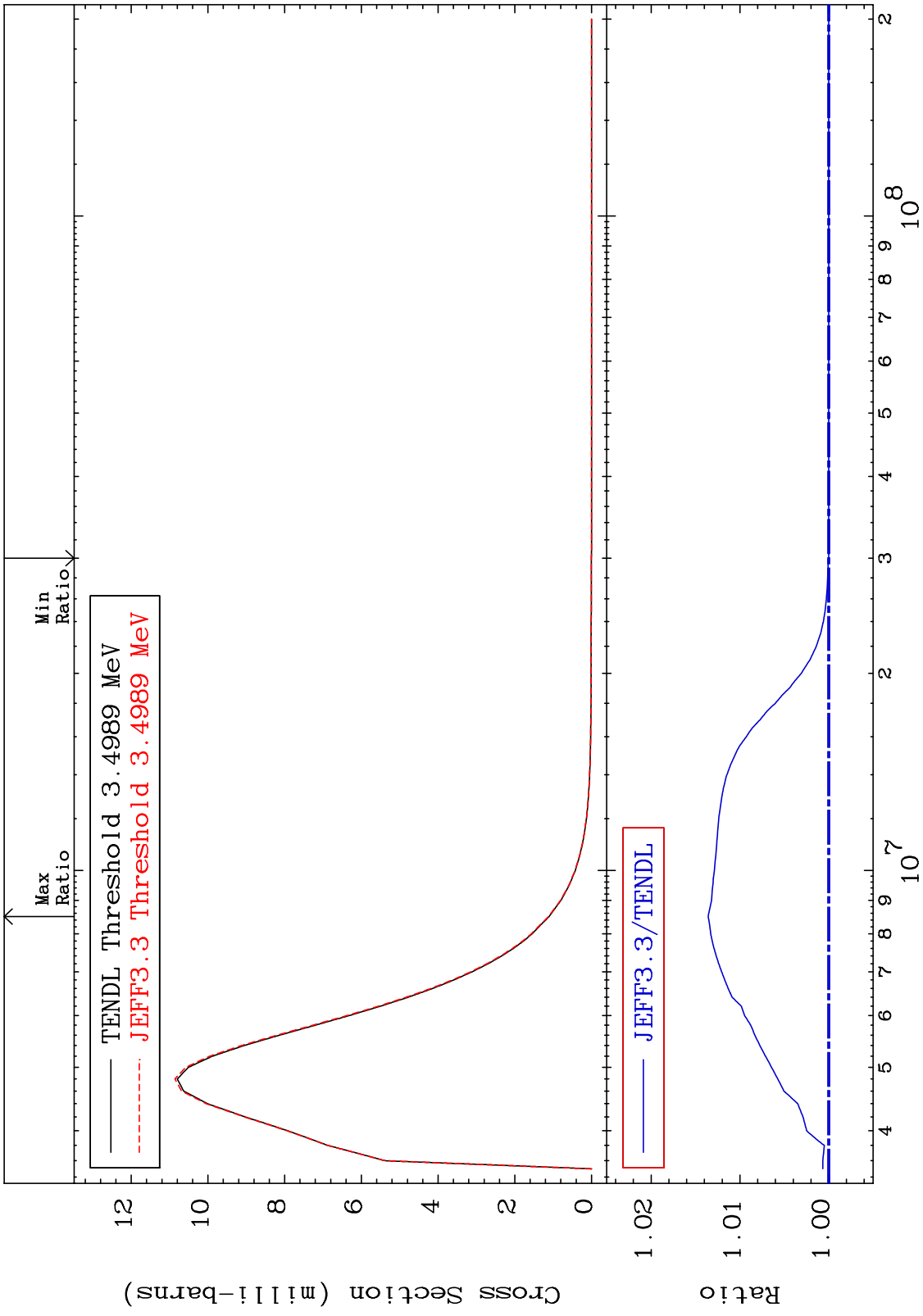
MAT 2234 MT= 71 (n,n') Level Cross Section 22-Ti-49
 0.000 To 1.330 %



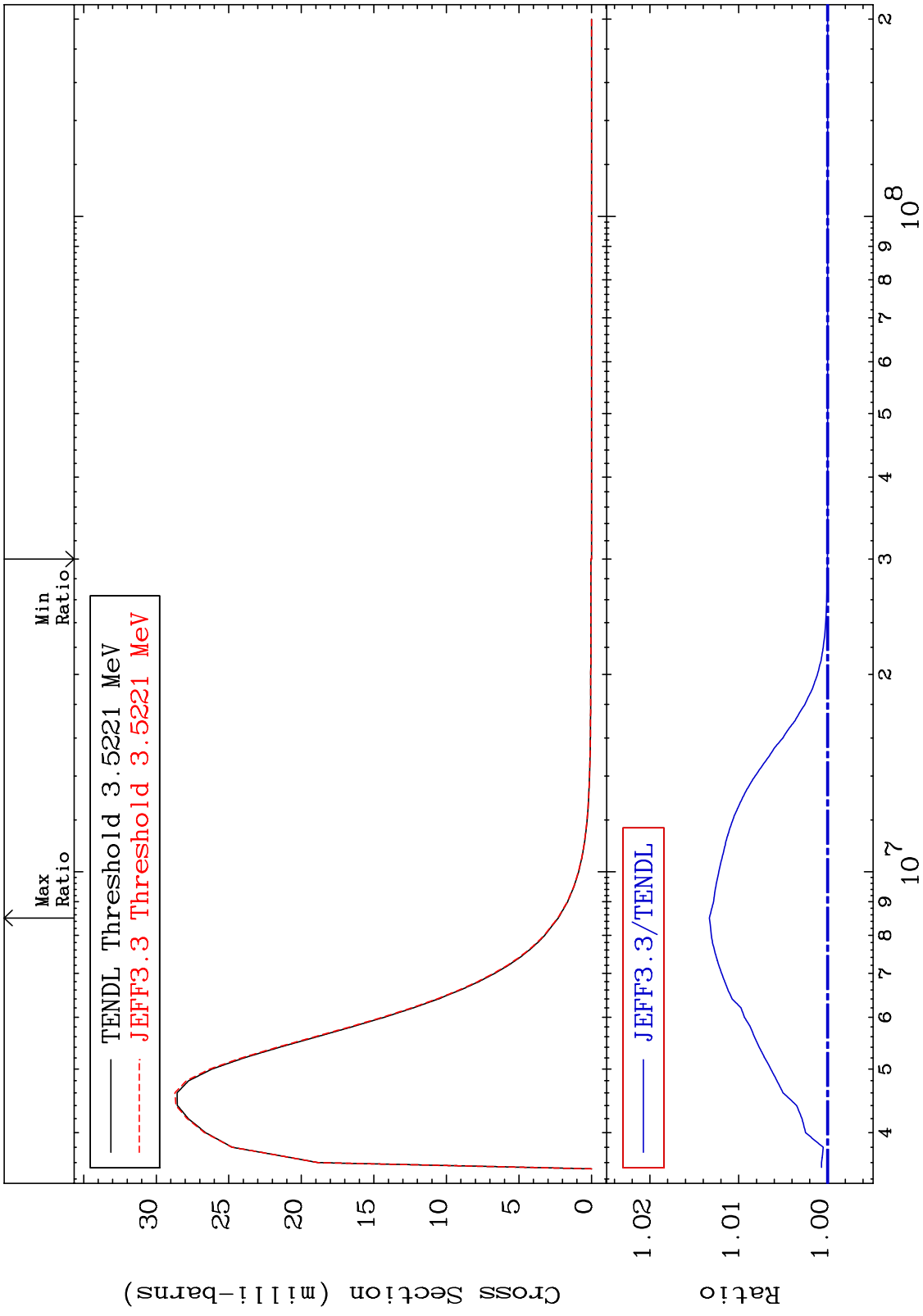
MAT 2234 MT= 72 (n,n') Level Cross Section 22-Ti-49
 0.000 To 1.355 %



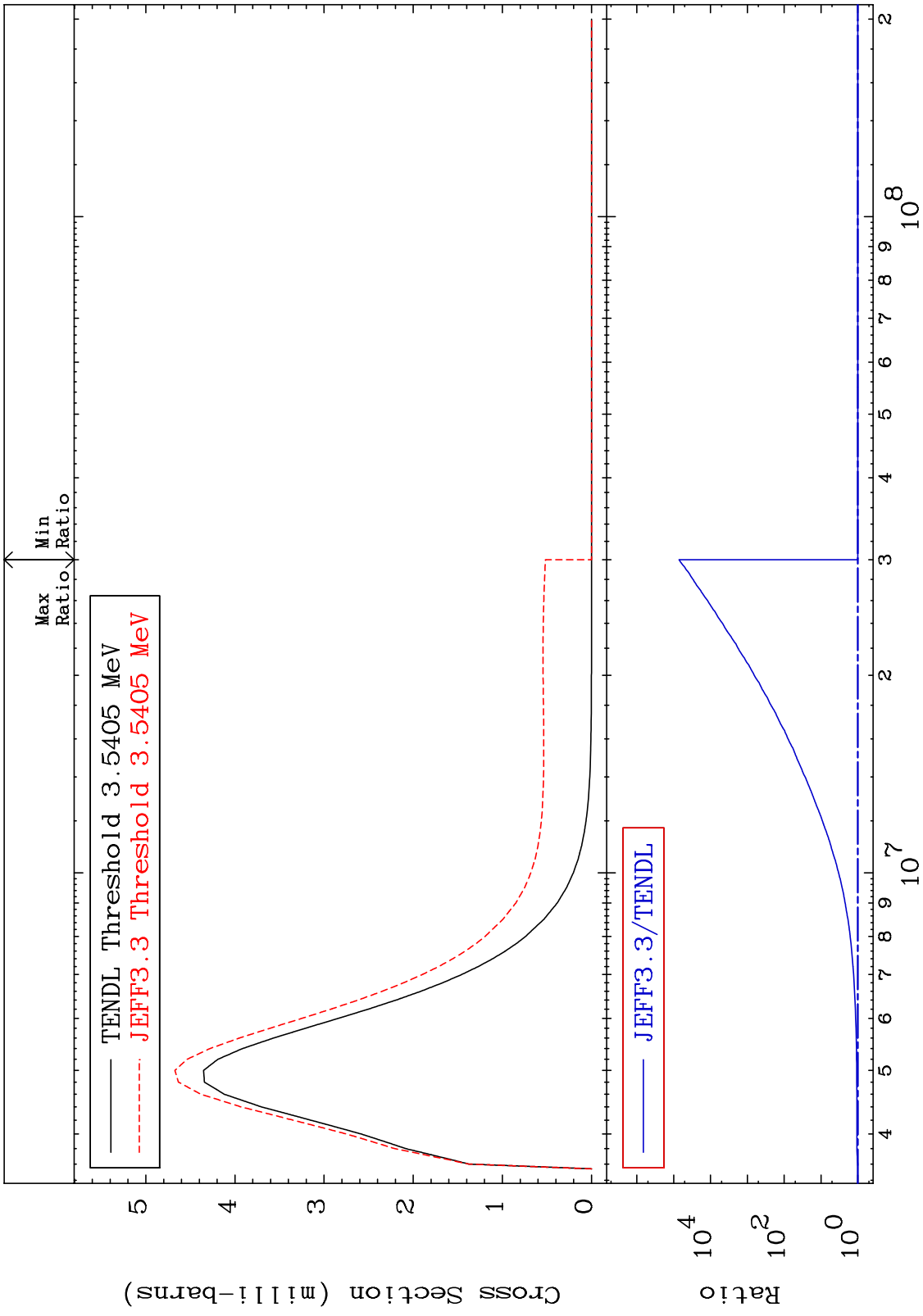
MAT 2234 MT= 73 (n,n') Level Cross Section 22-Ti-49 To 1.358 %



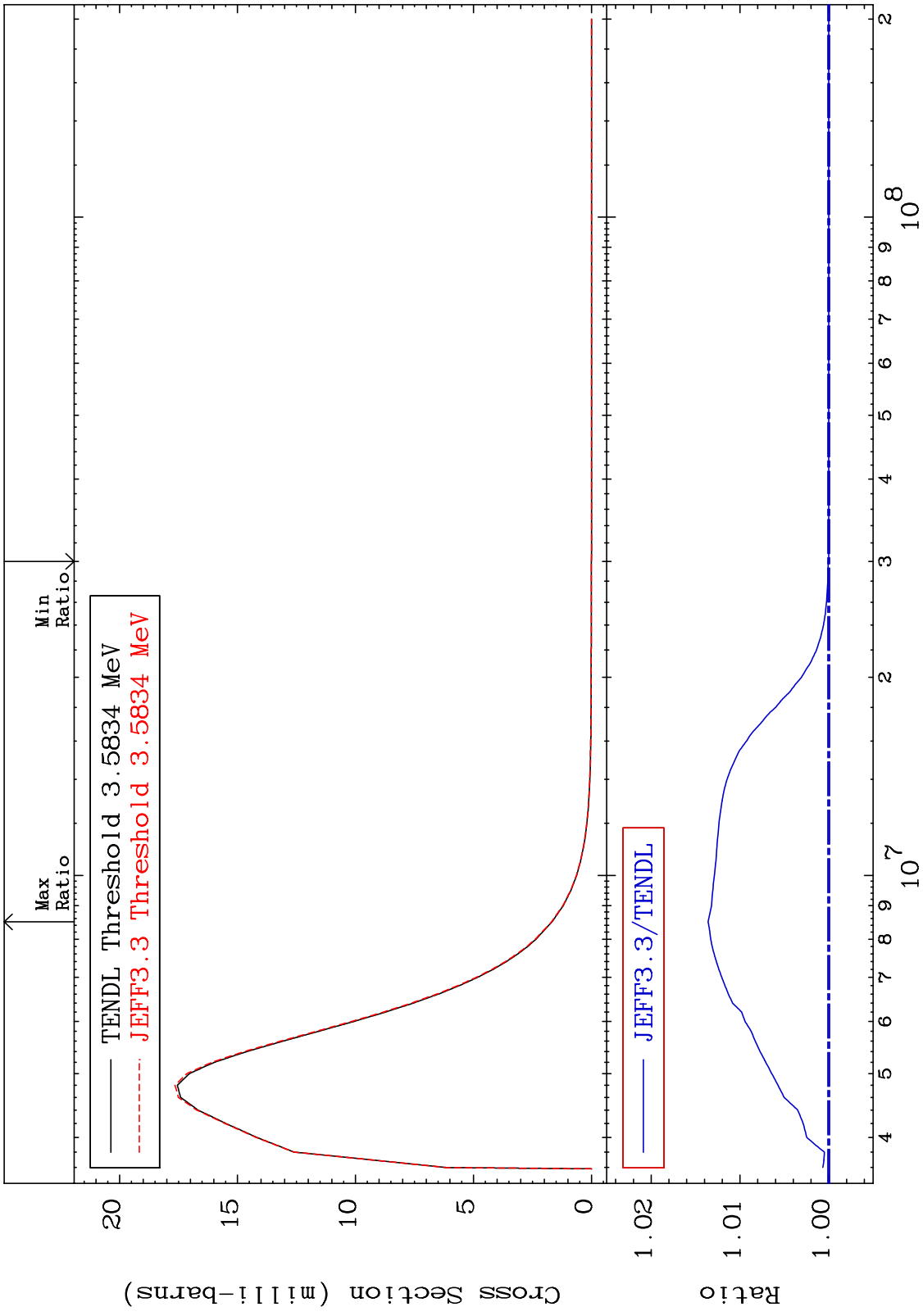
MAT 2234 MT= 74 (n,n') Level Cross Section 22-Ti-49 To 1.331 %



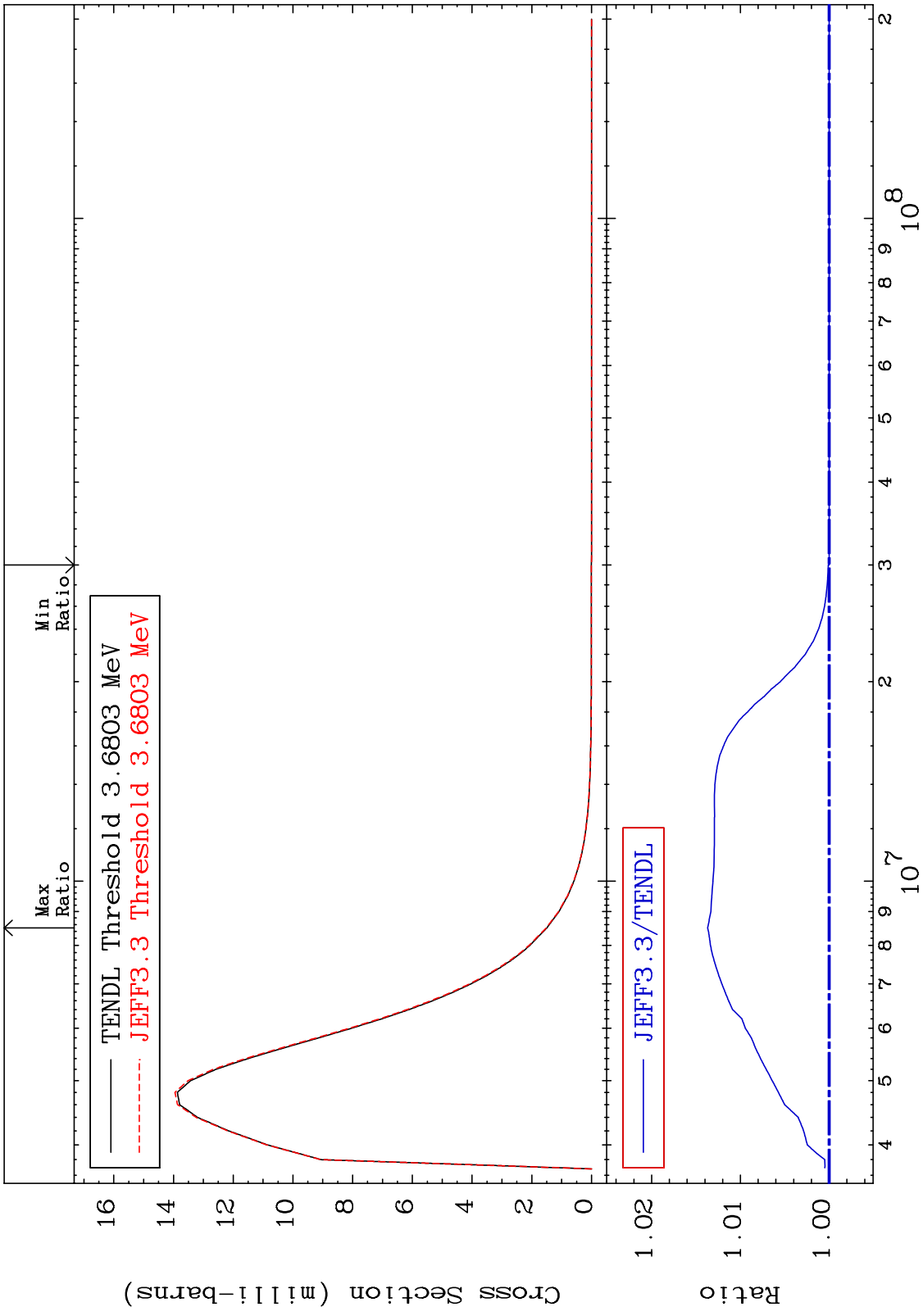
MAT 2234 MT= 75 (n,n') Level Cross Section 22-Ti-49 To 9999. %



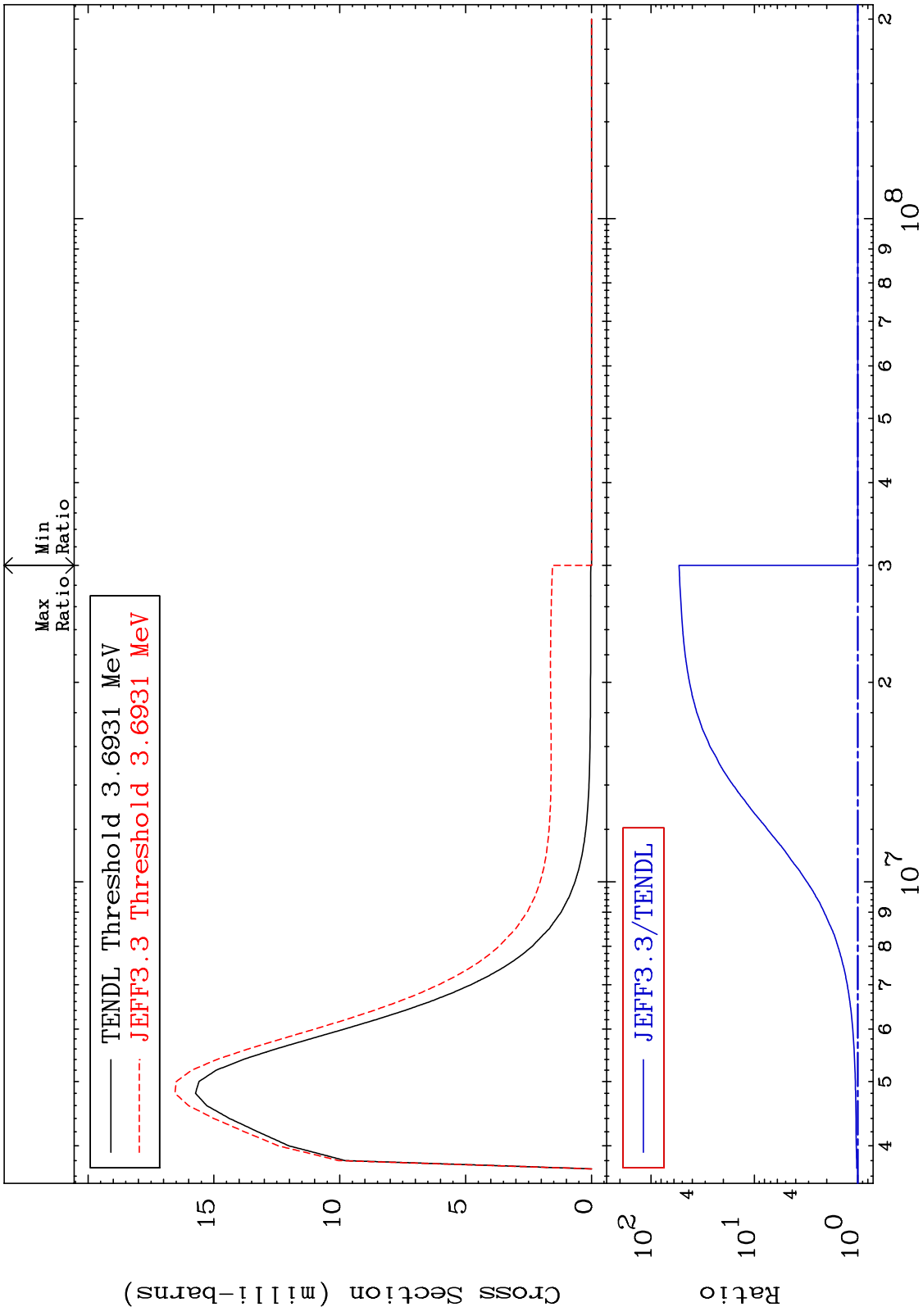
MAT 2234 MT= 76 (n,n') Level Cross Section 22-Ti-49 To 1.359 %



MAT 2234 MT= 77 (n,n') Level Cross Section 22-Ti-49 To 1.368 %

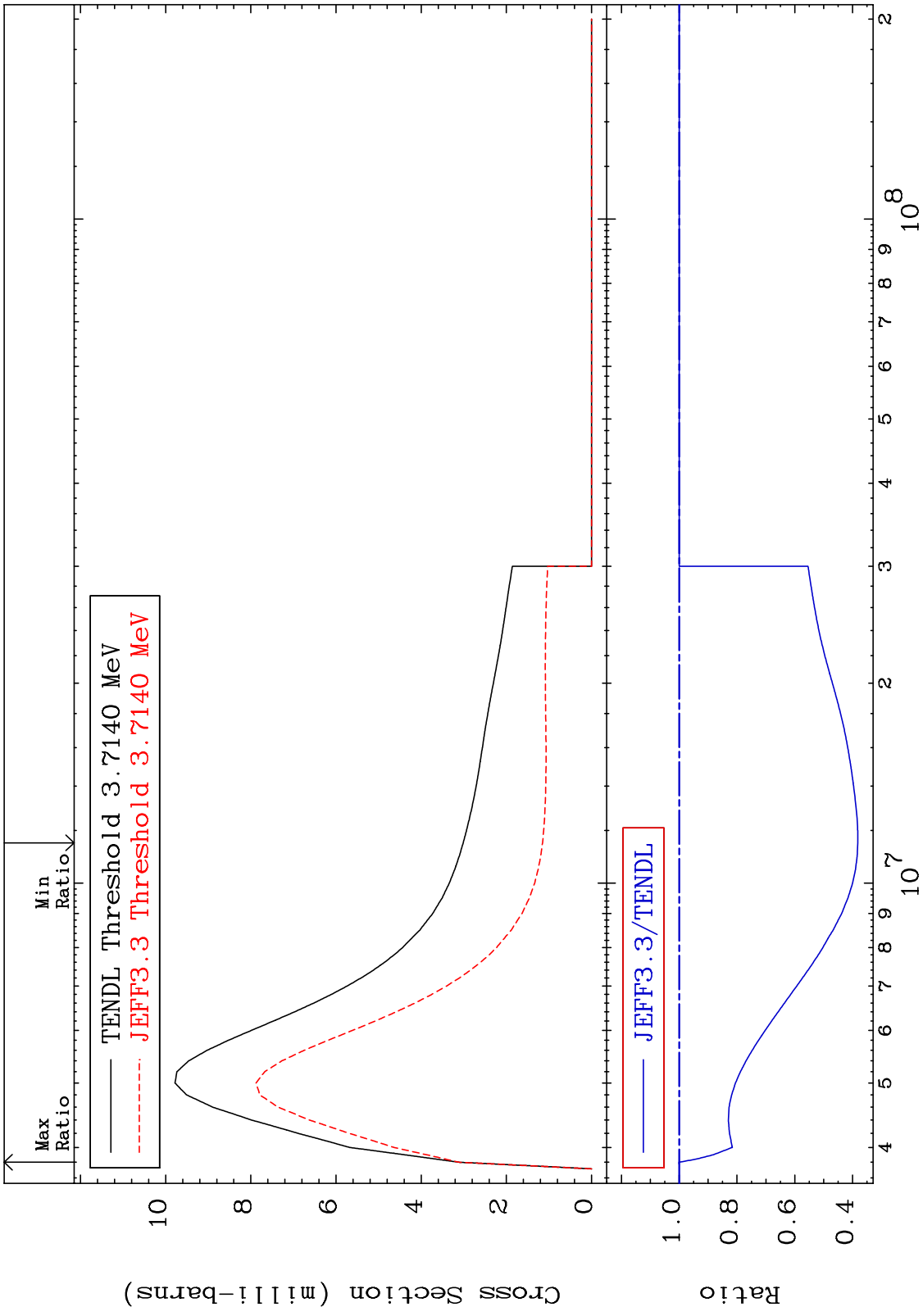


MAT 2234 MT= 78 (n,n') Level Cross Section 22-Ti-49
 0.000 To 5267. %



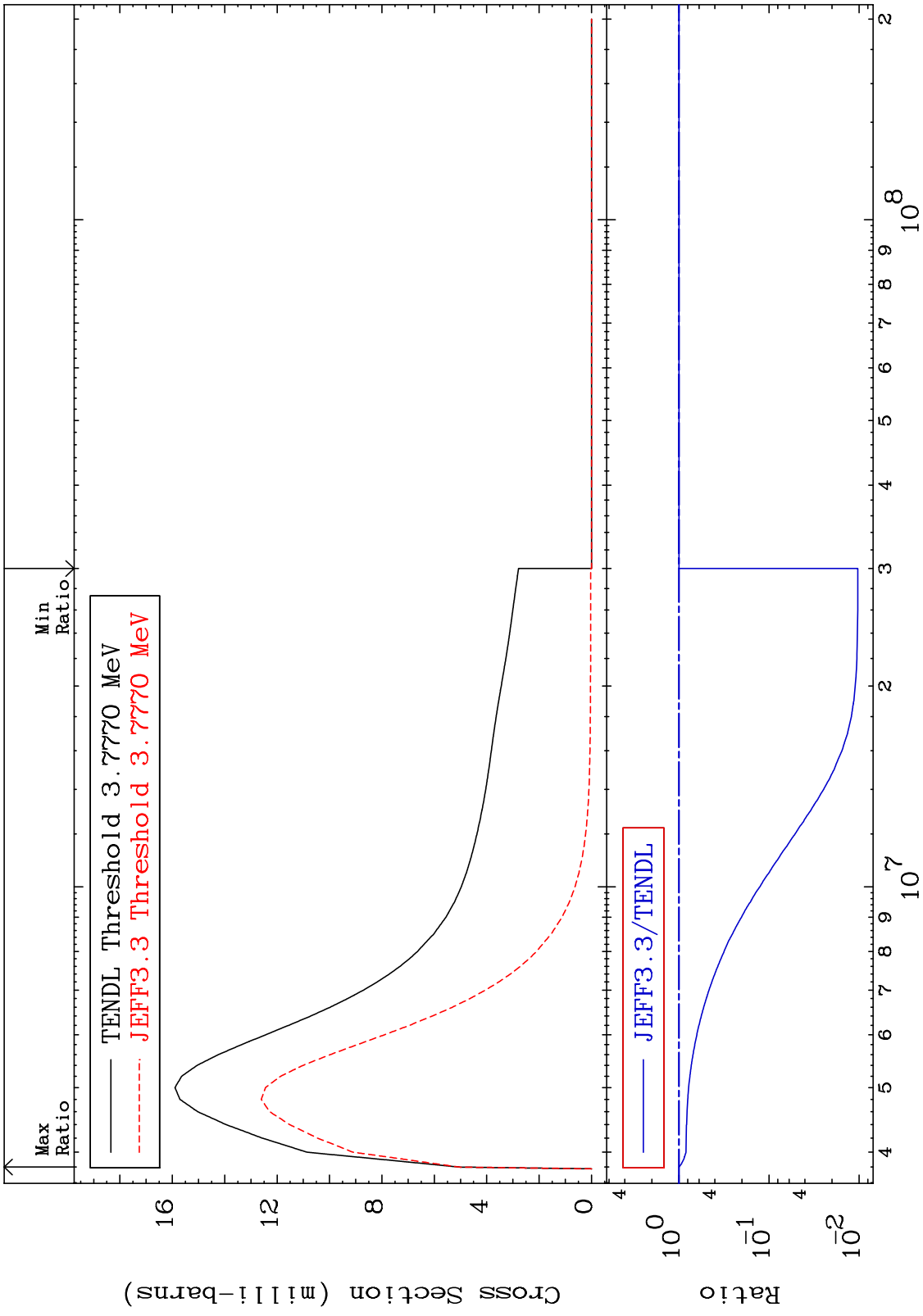
45 Incident Energy (eV) 22-Ti-49

MAT 2234 MT= 79 (n,n') Level Cross Section 22-Ti-49
 -61.81 To 0.049 %



46 Incident Energy (eV) 22-Ti-49

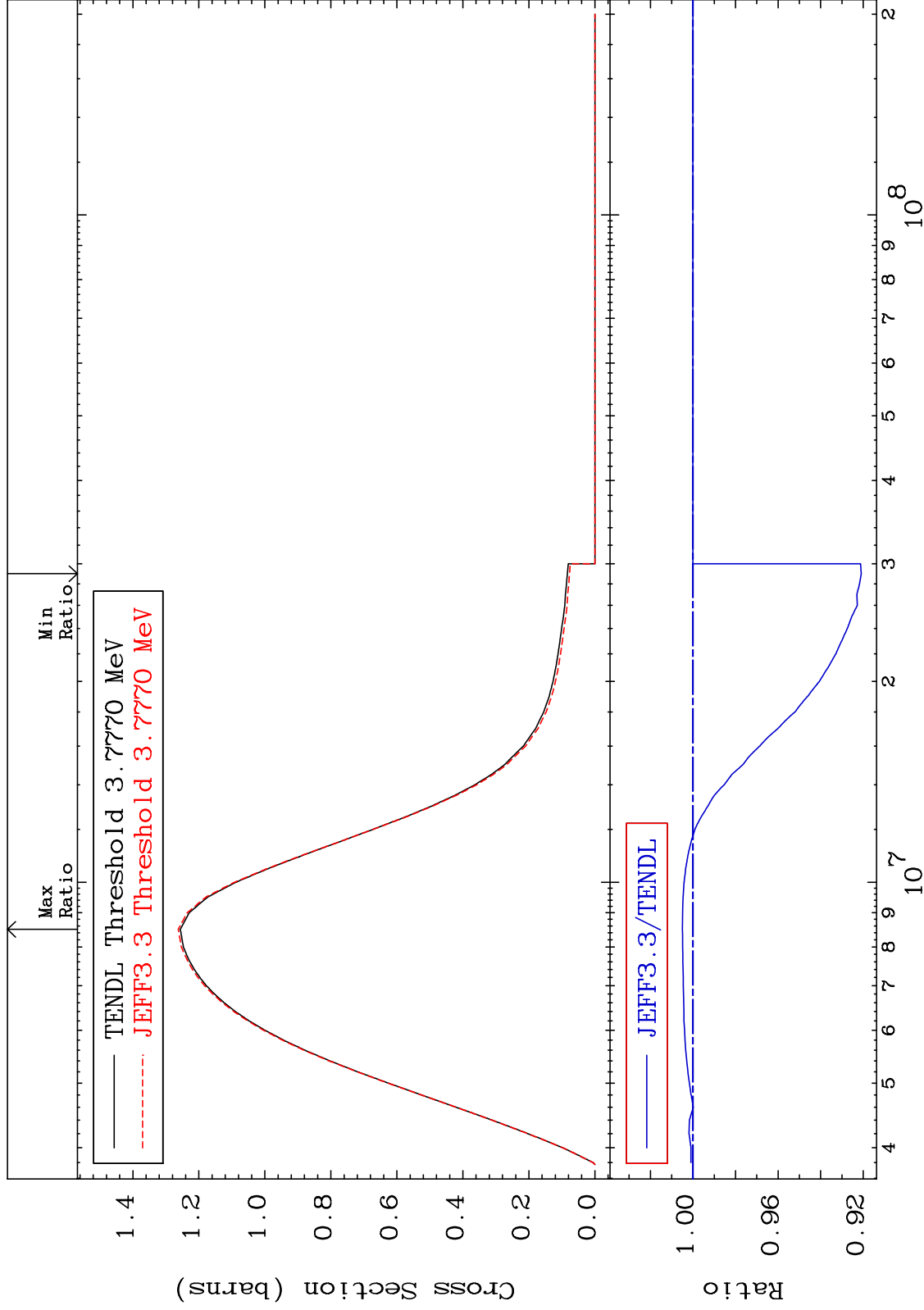
MAT 2234 MT= 80 (n,n') Level Cross Section -98.97 To 0.048 % 22-Ti-49



MAT 2234

(n, n') Continuum
Cross Section

22-Ti-49
-7.908 To 0.494 %



48

Incident Energy (eV)

22-Ti-49

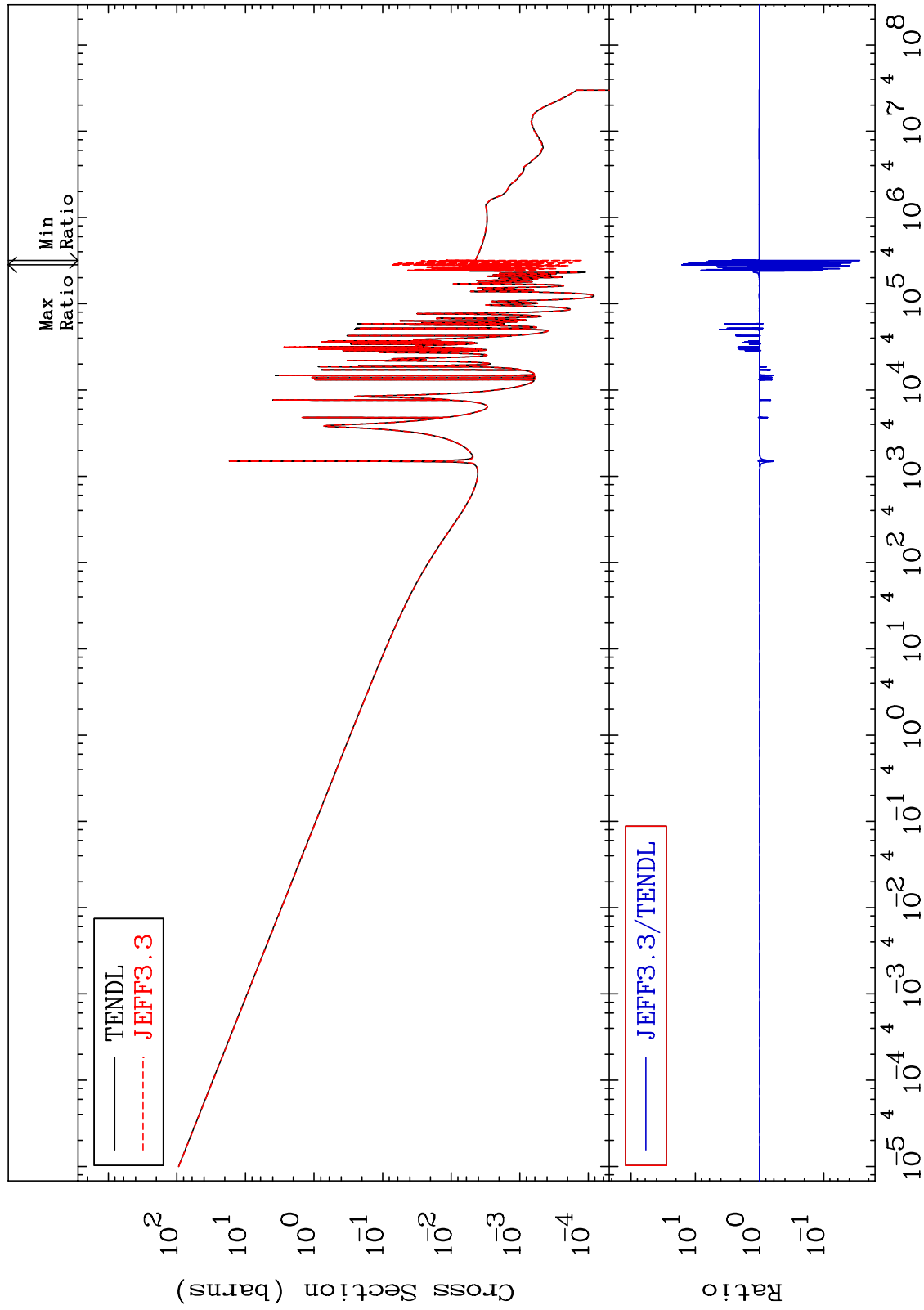
MAT 2234

(n, γ)

22-Ti-49

Cross Section

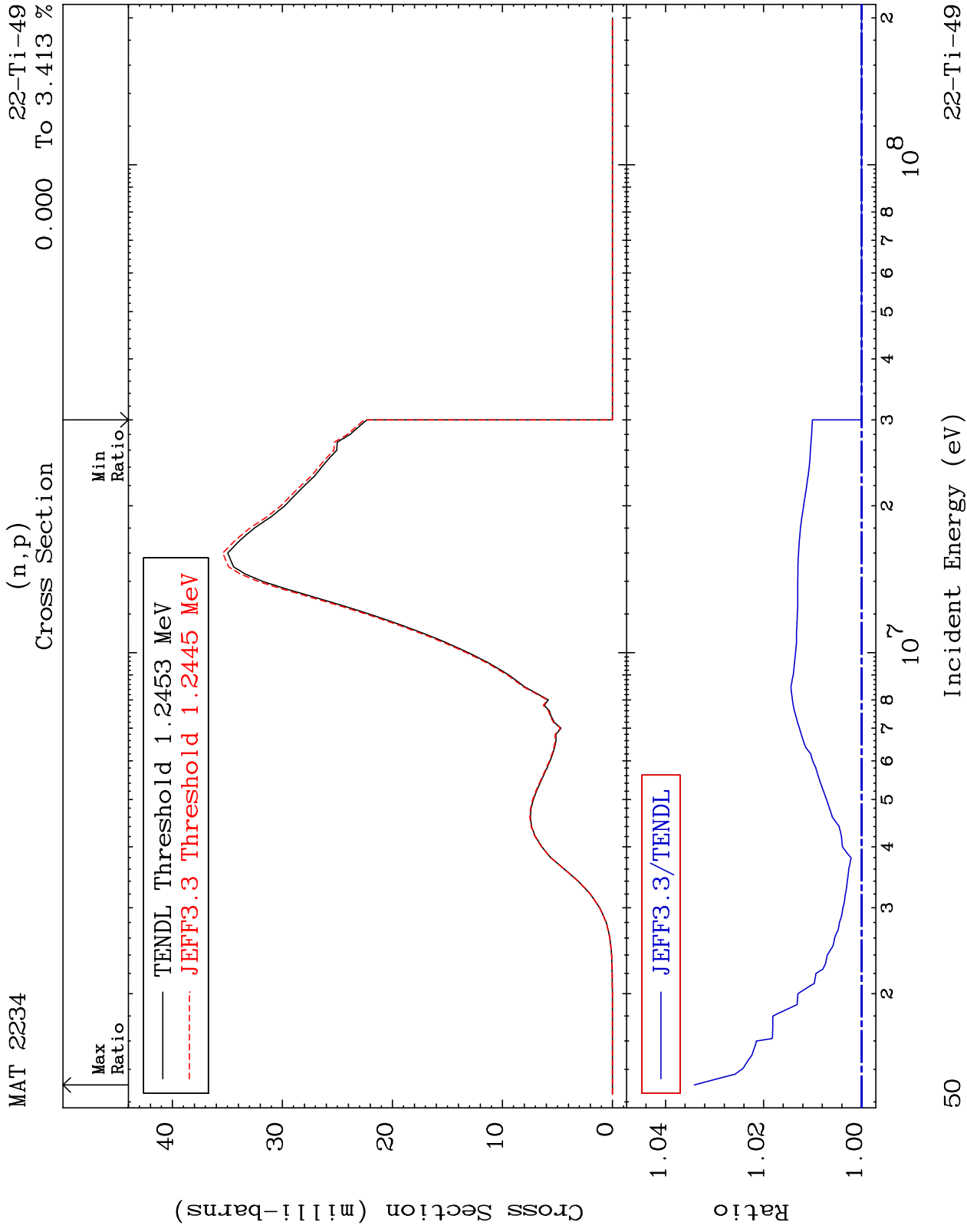
-97.26 To 1541. %



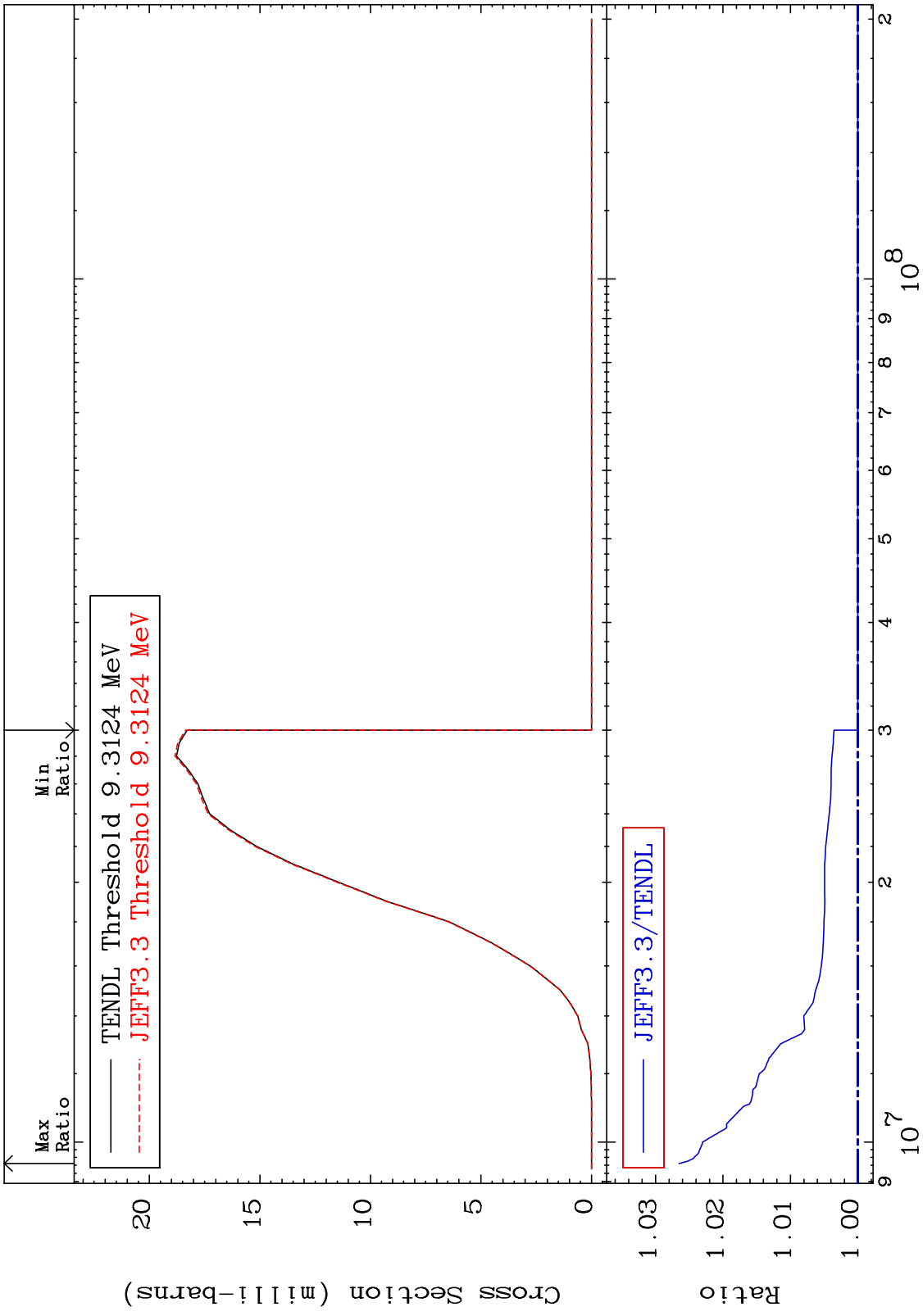
49

Incident Energy (eV)

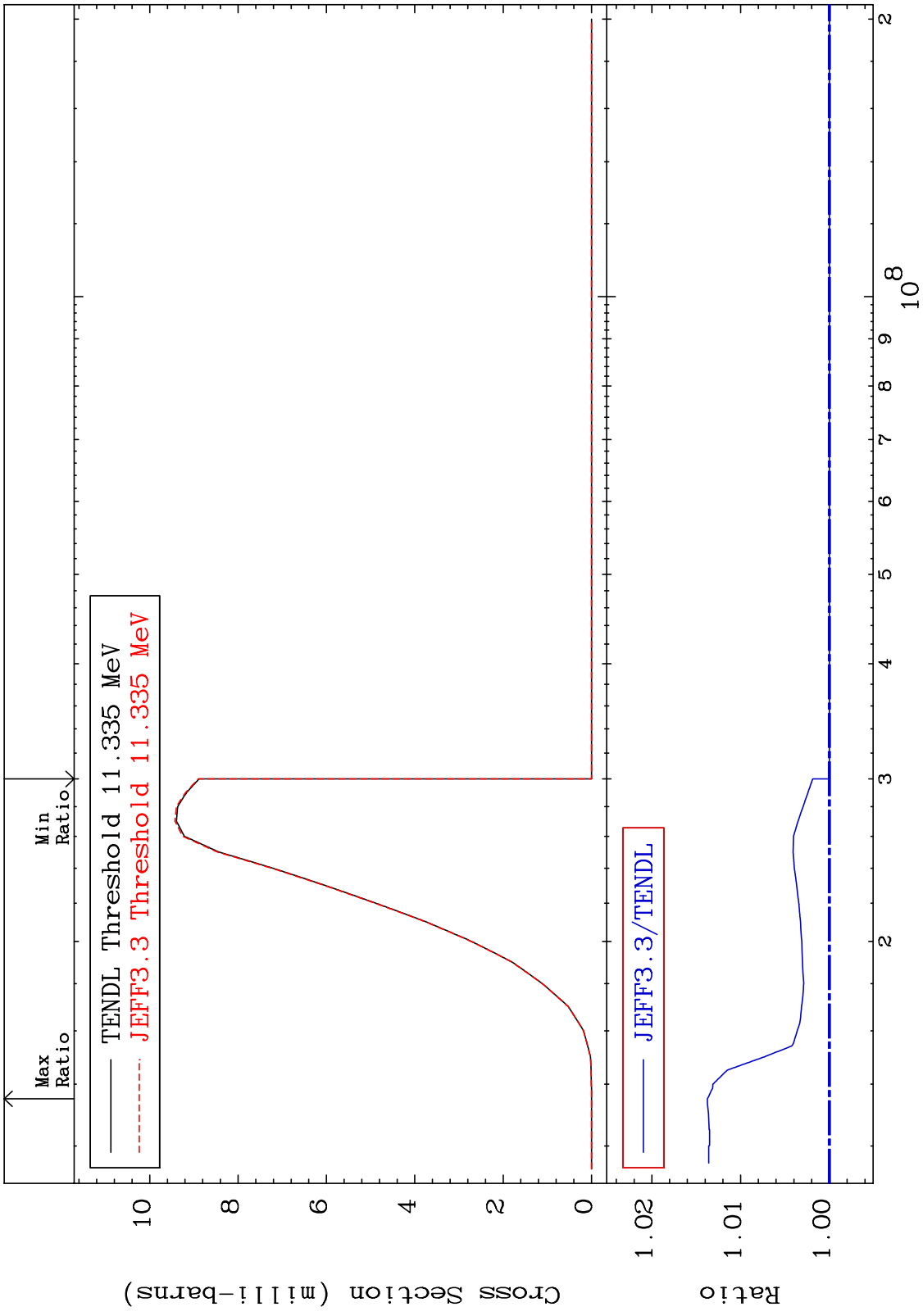
22-Ti-49



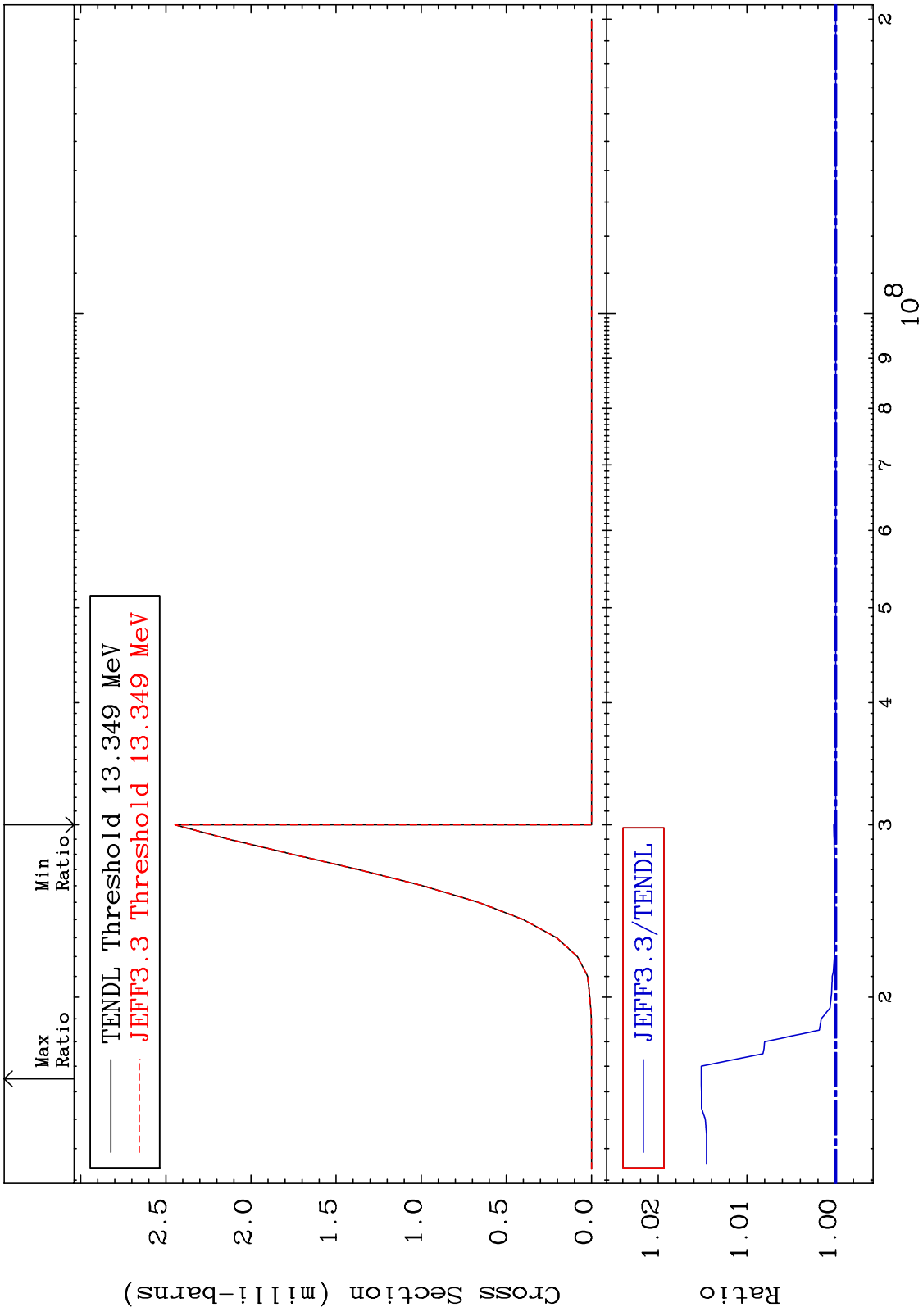
MAT 2234 (n,d) Cross Section 22-Ti-49 To 2.652 %



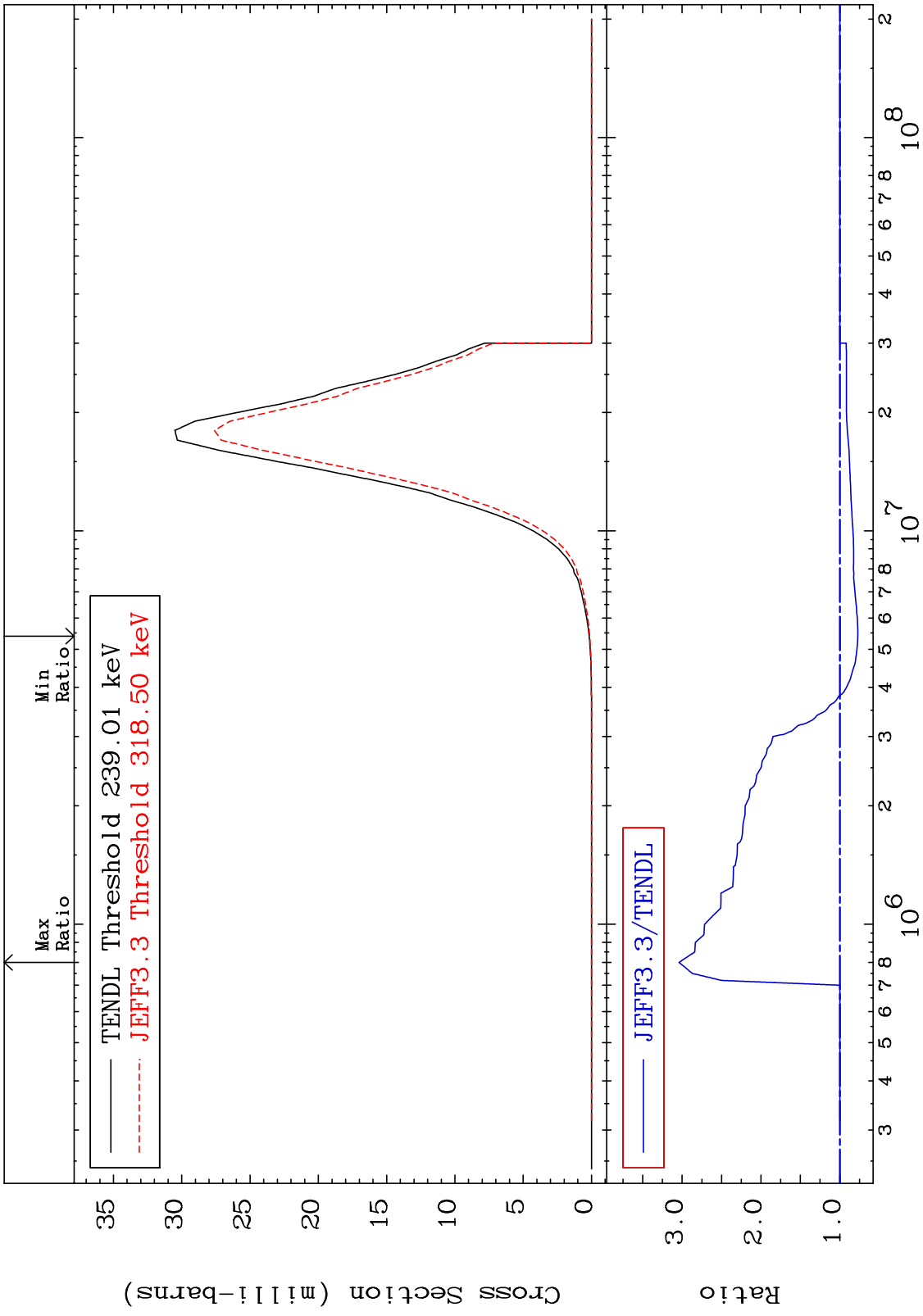
MAT 2234 (n,t) Cross Section 22-Ti-49 To 1.373 %
 0.000



MAT 2234 (n, He-3) 22-Ti-49
 Cross Section 0.000 To 1.516 %

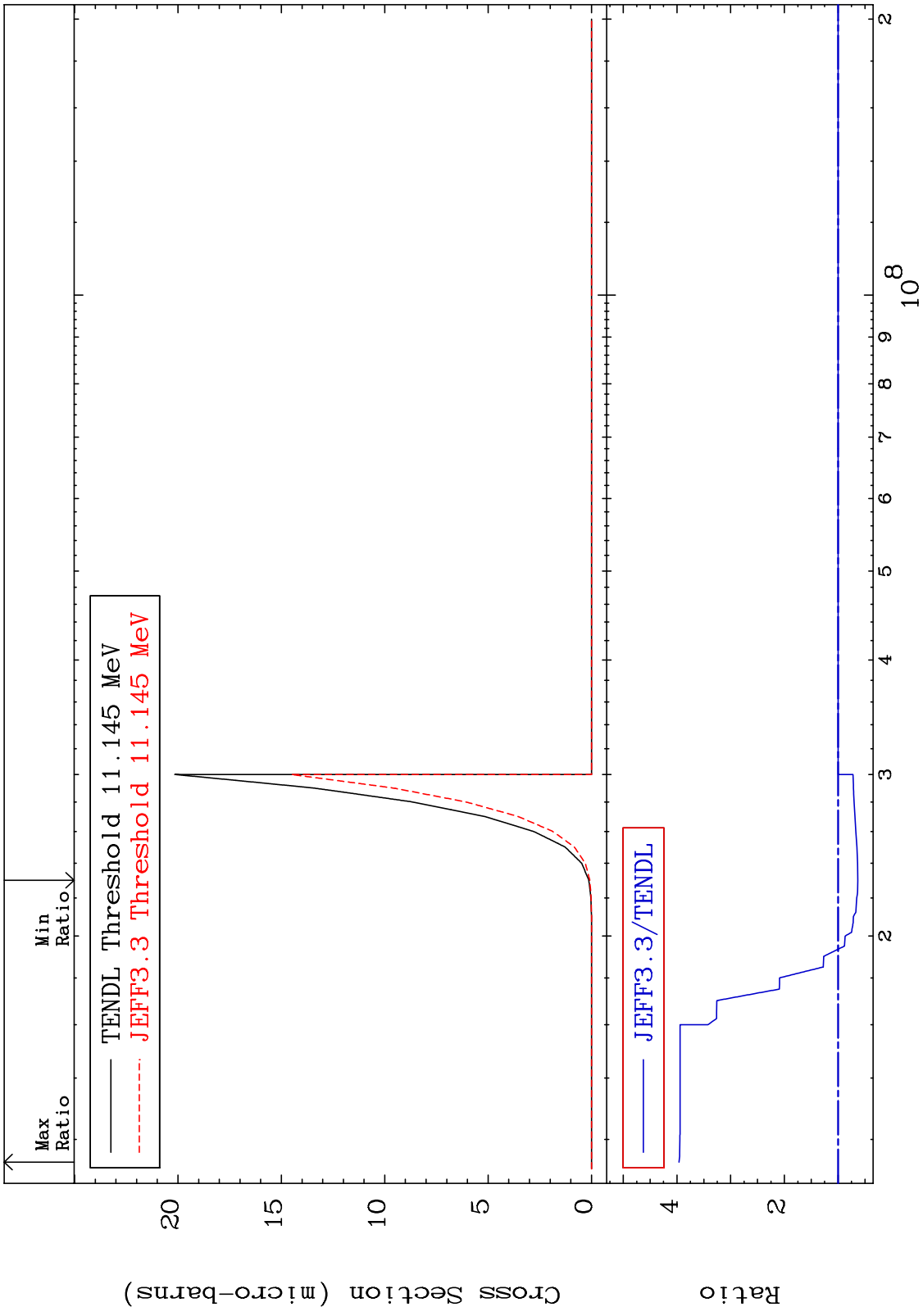


MAT 2234 22-Ti-49
-22.91 To 203.9 %
 (n, α)
 Cross Section



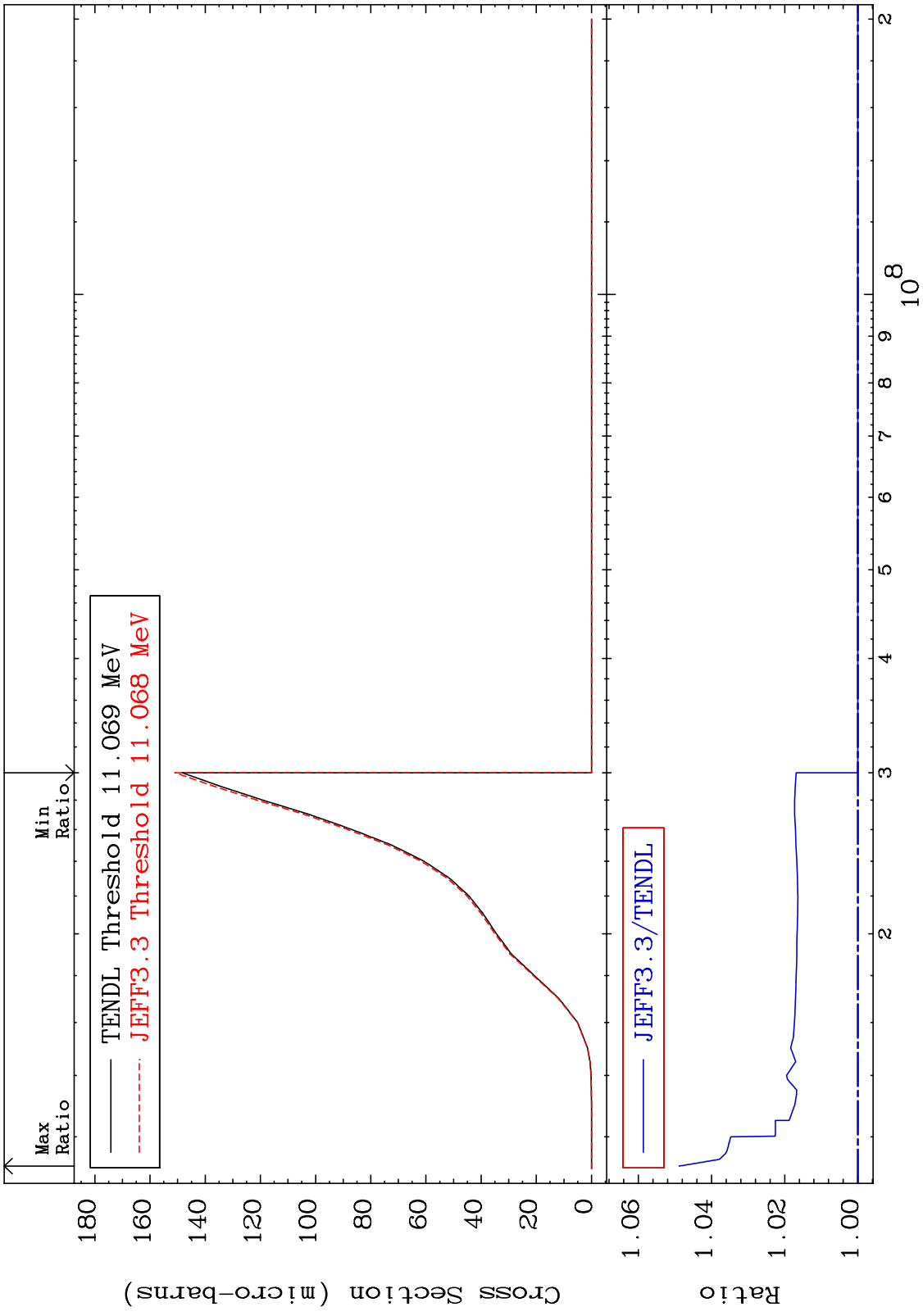
54 22-Ti-49

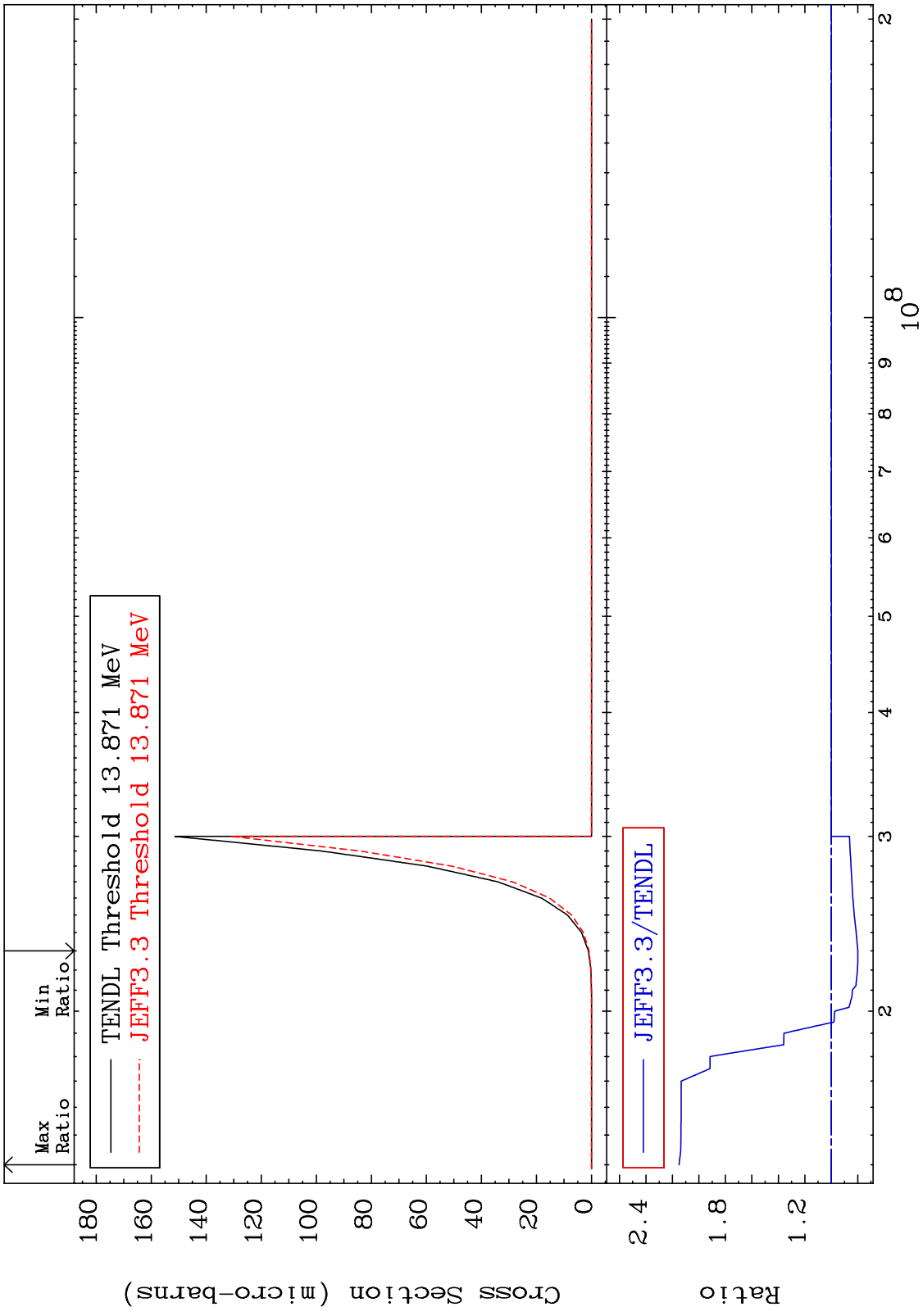
MAT 2234 (n,2α) Cross Section 22-Ti-49
 -36.80 To 296.1 %



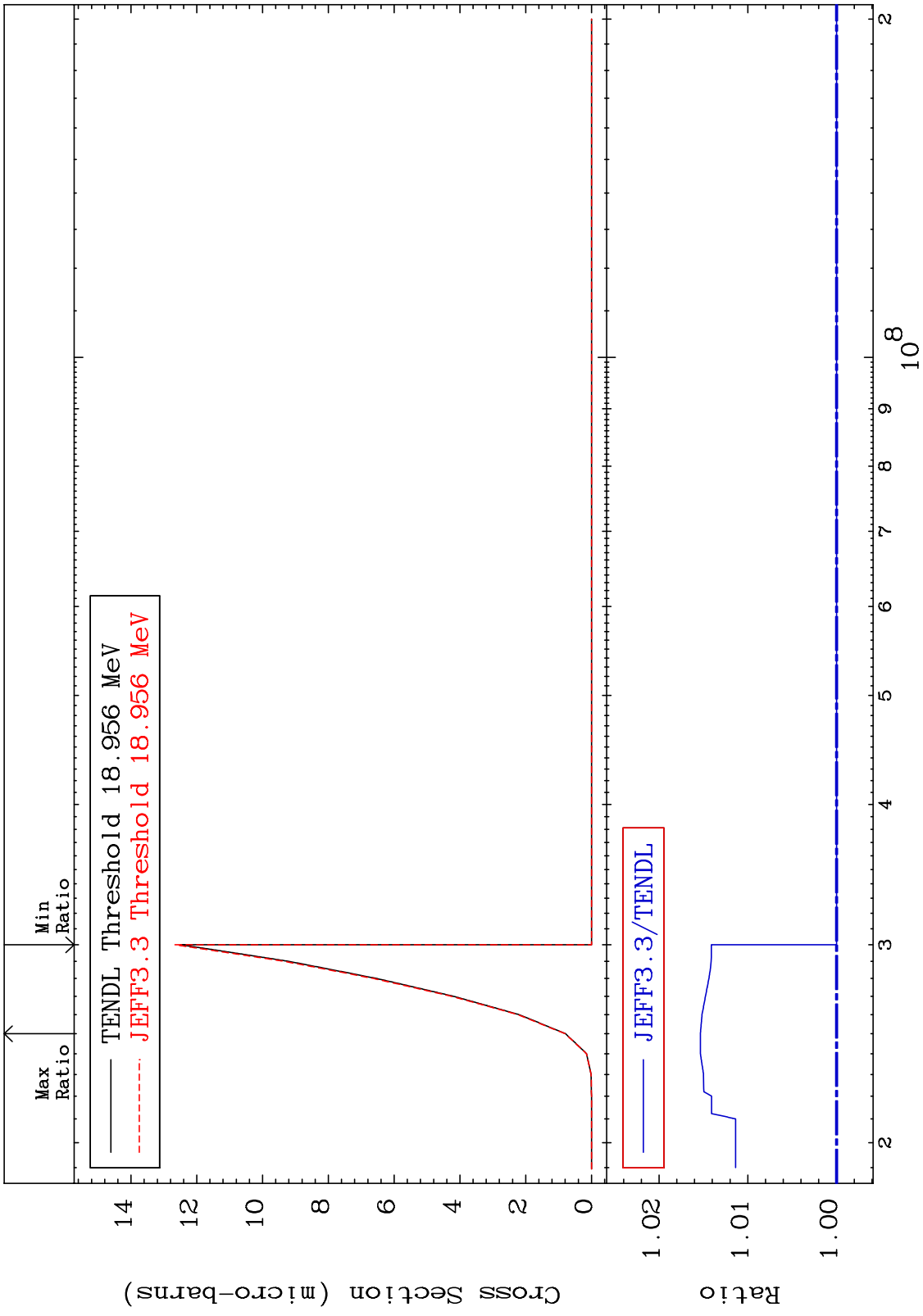
55 22-Ti-49

MAT 2234 (n,2p) Cross Section 22-Ti-49 To 4.888 %

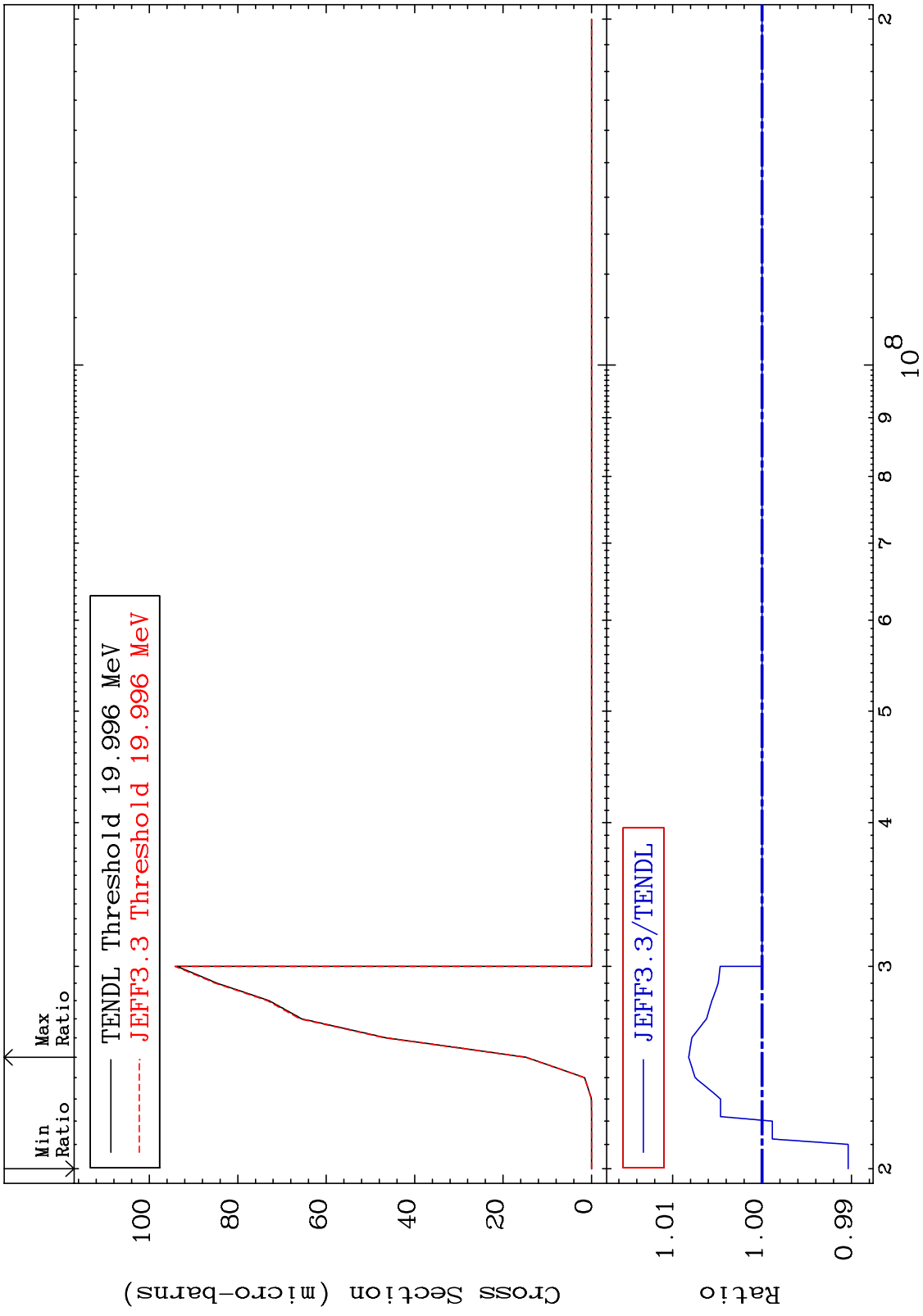




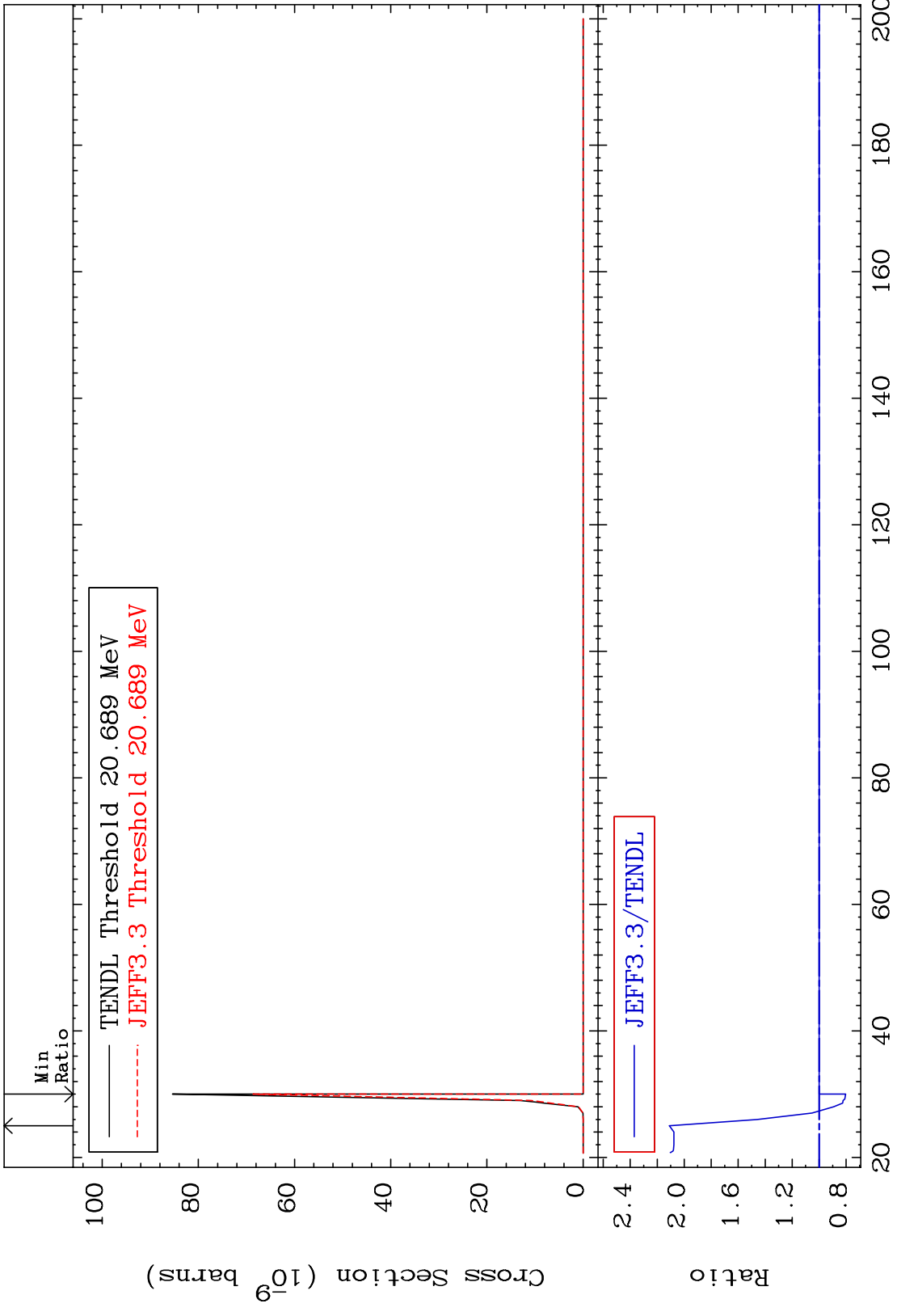
MAT 2234 (n,p) d 22-Ti-49
 Cross Section 0.000 To 1.535 %



MAT 2234 (n,p) t 22-Ti-49
 Cross Section -0.963 To 0.820 %

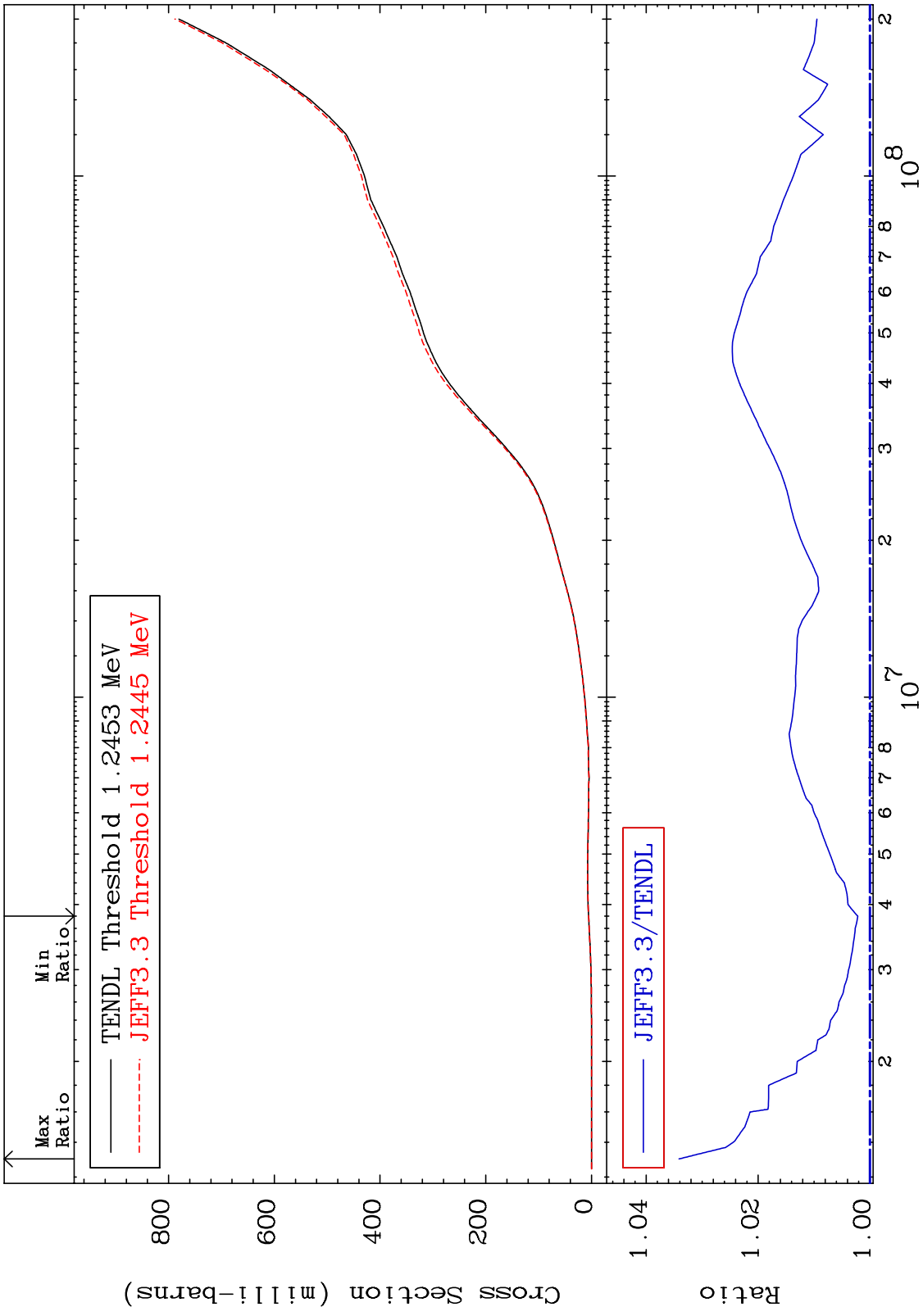


MAT 2234 (n,d) α 22-Ti-49
Cross Section -19.68 To 111.0 %

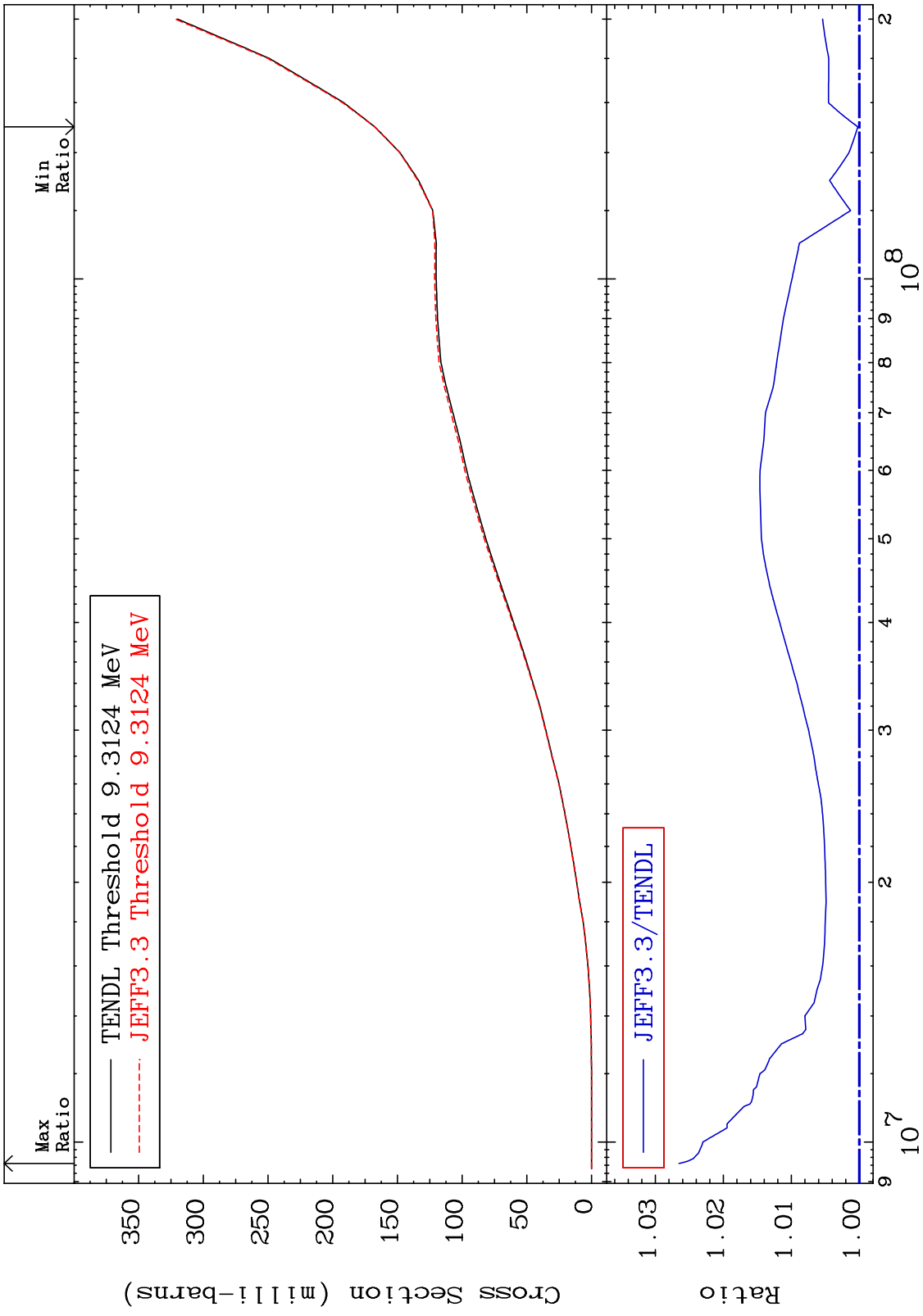


22-Ti-49 Incident Energy (MeV)

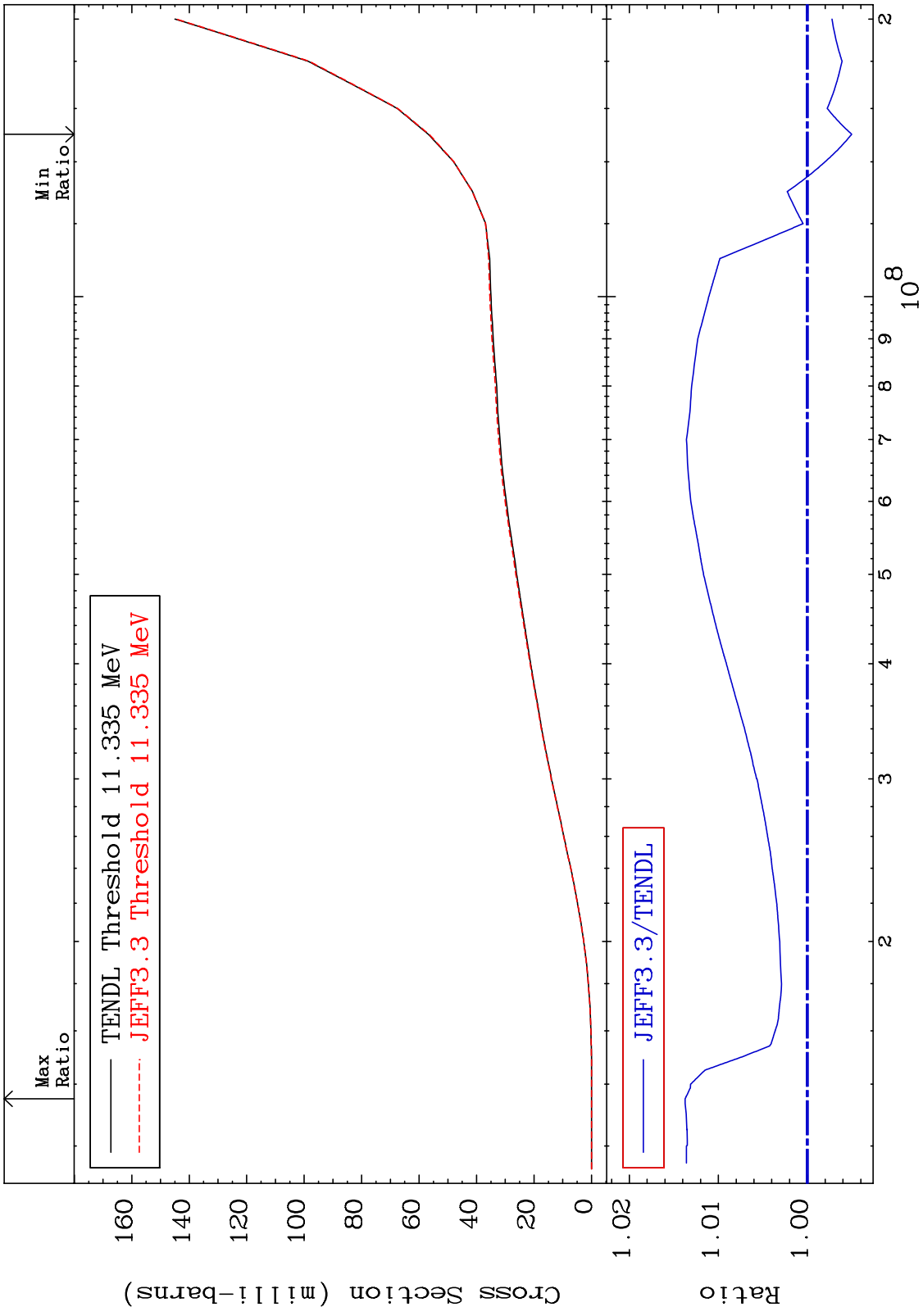
MAT 2234 Hydrogen Production Cross Section 22-Ti-49 To 3.413 %



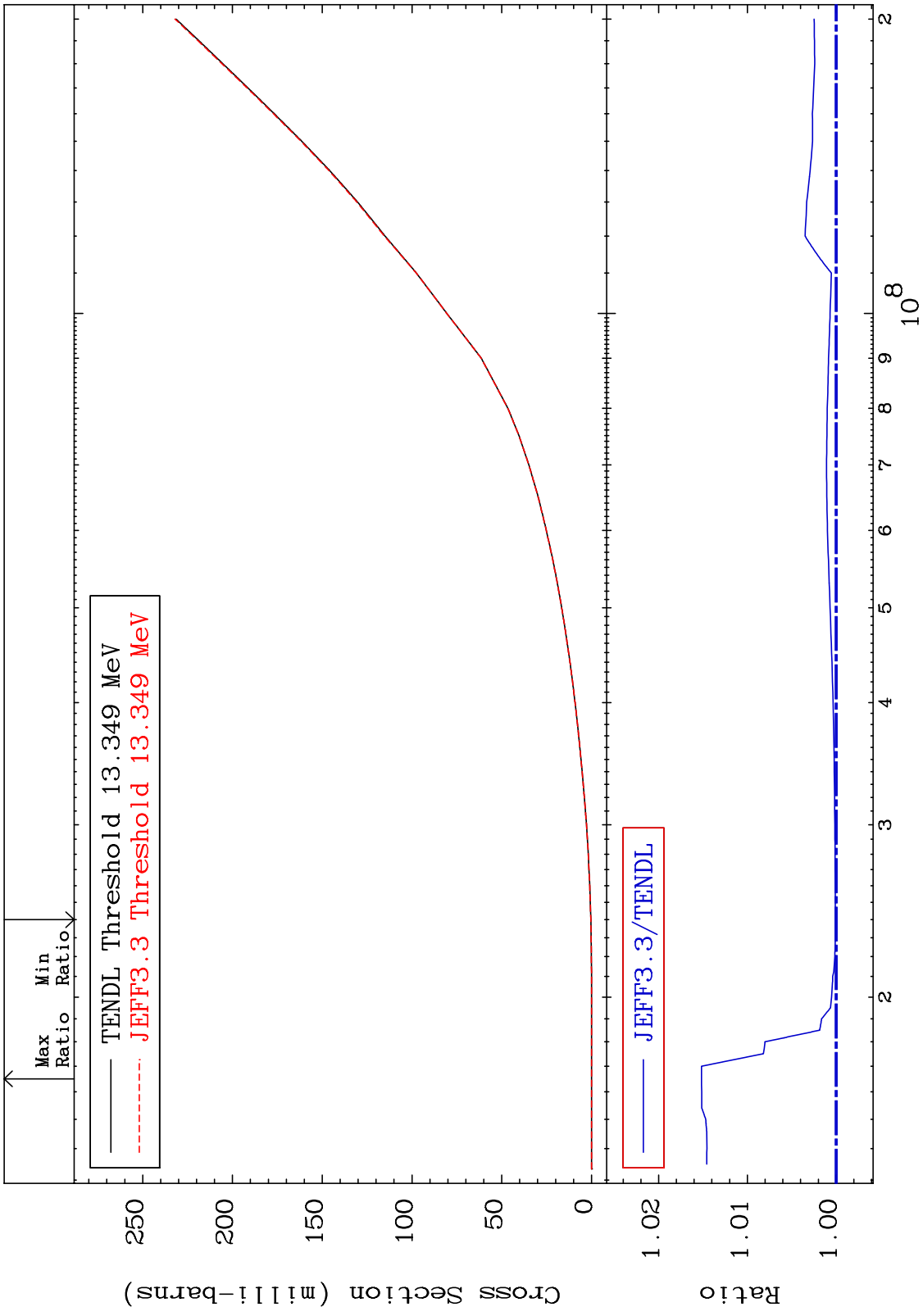
MAT 2234 Deuterium Production Cross Section 22-Ti-49 To 2.652 %



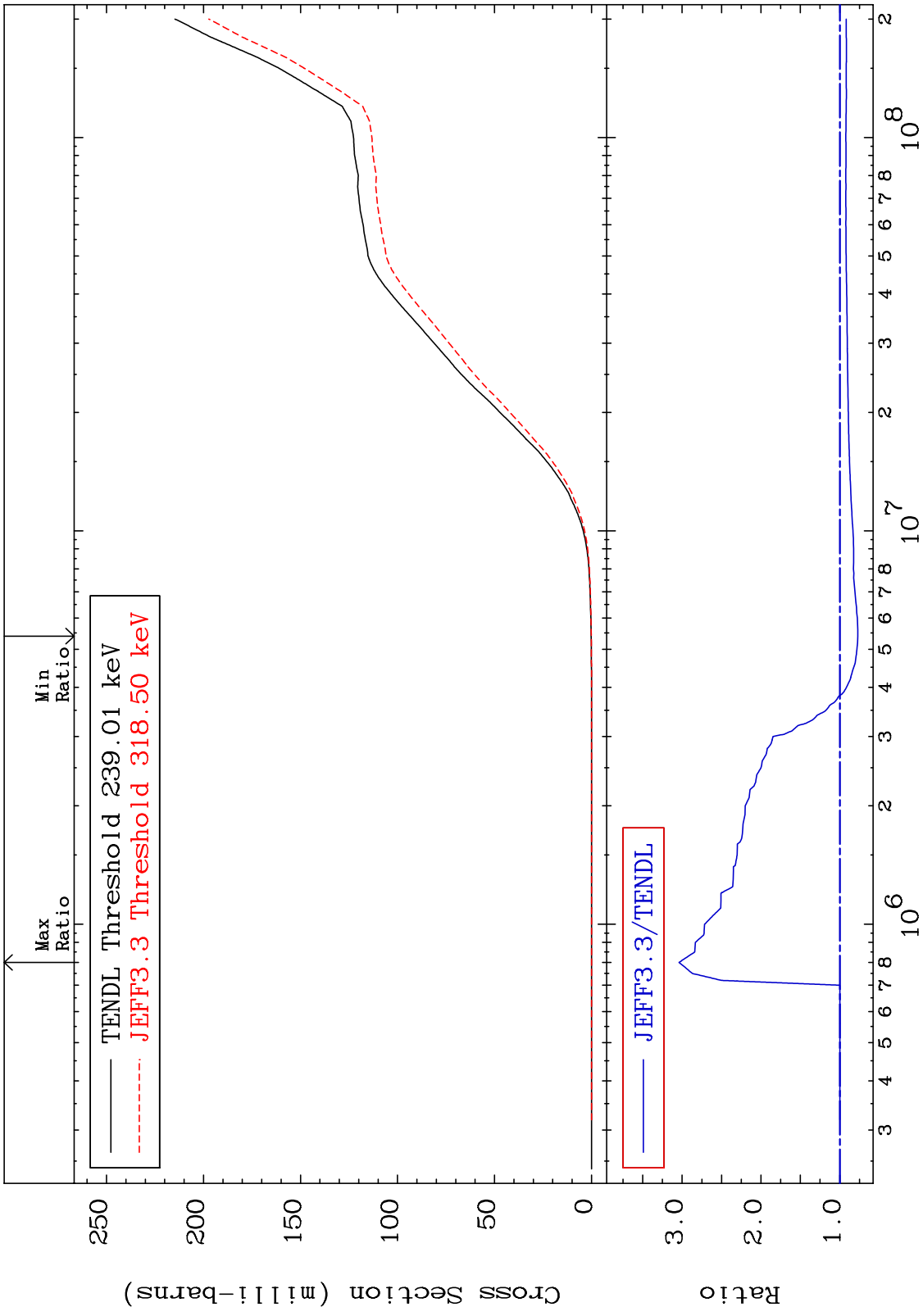
62 22-Ti-49



MAT 2234 He-3 Production Cross Section 22-Ti-49 To 1.516 %



MAT 2234 He-4 Production Cross Section -22.91 To 203.9 % 22-Ti-49

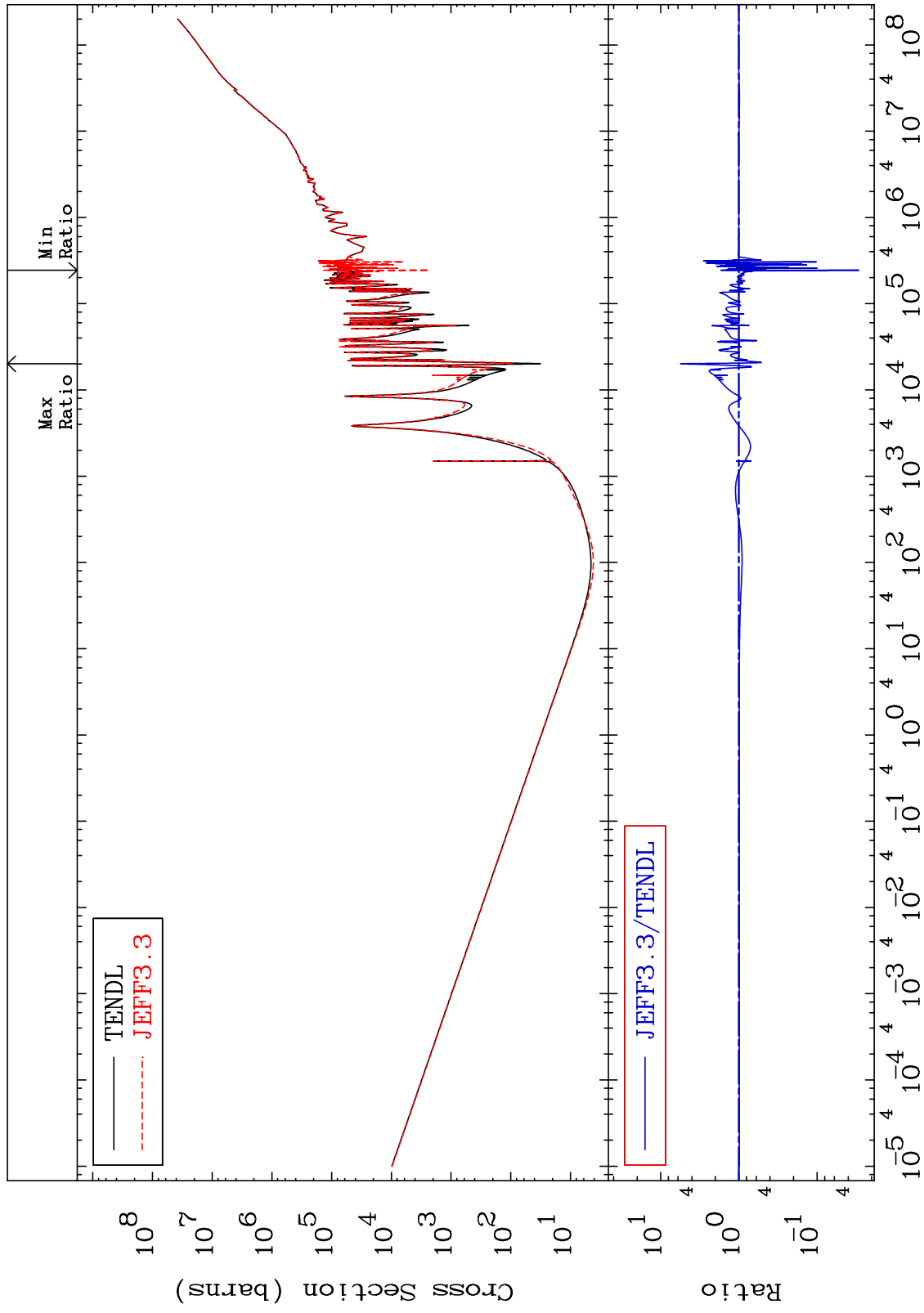


65 22-Ti-49

MAT 2234

Kerma total (eV-barns)
Cross Section

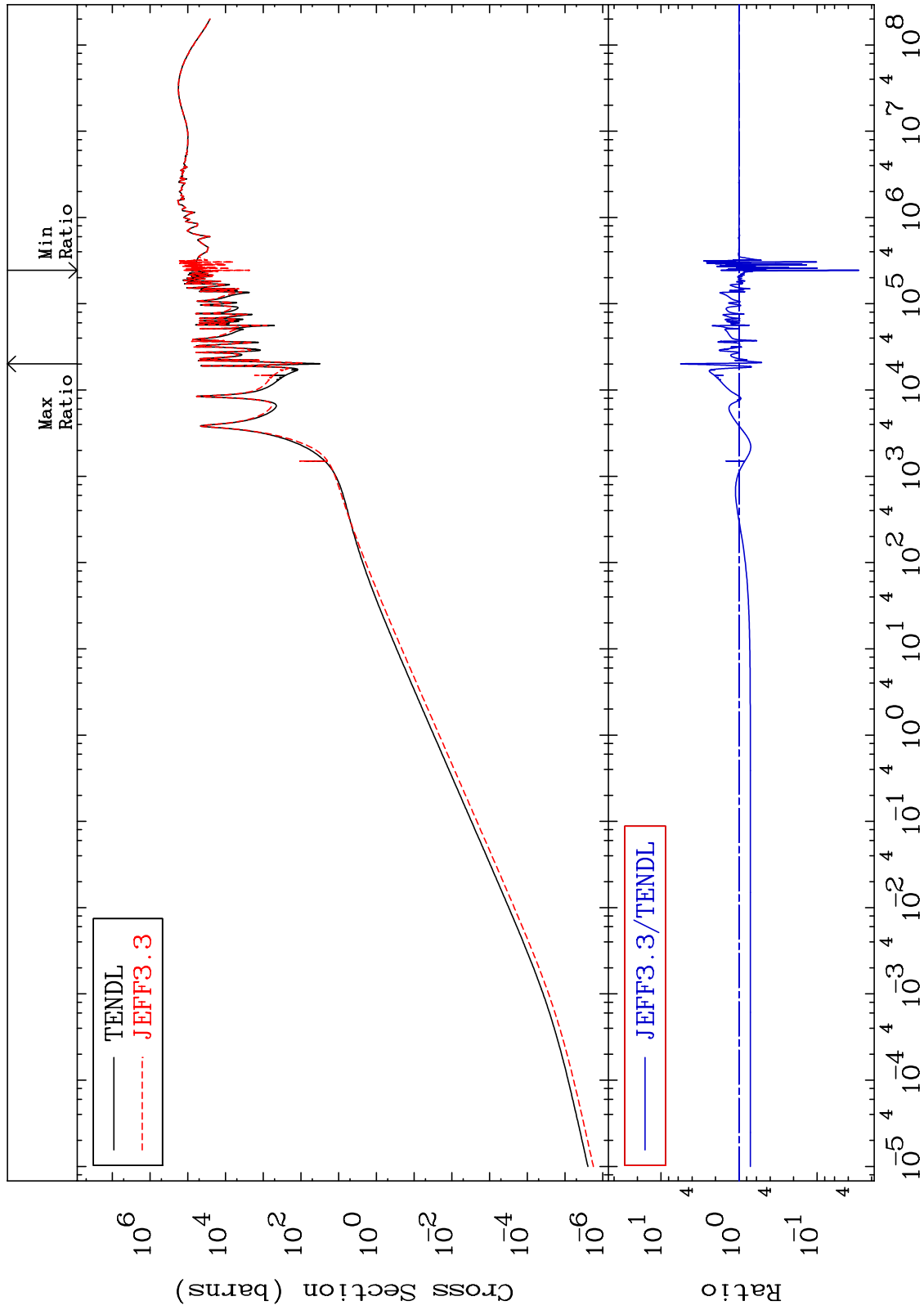
22-Ti-49
-97.09 To 455.8 %



MAT 2234

Kerma elastic
Cross Section

22-Ti-49
-97.09 To 459.6 %



67

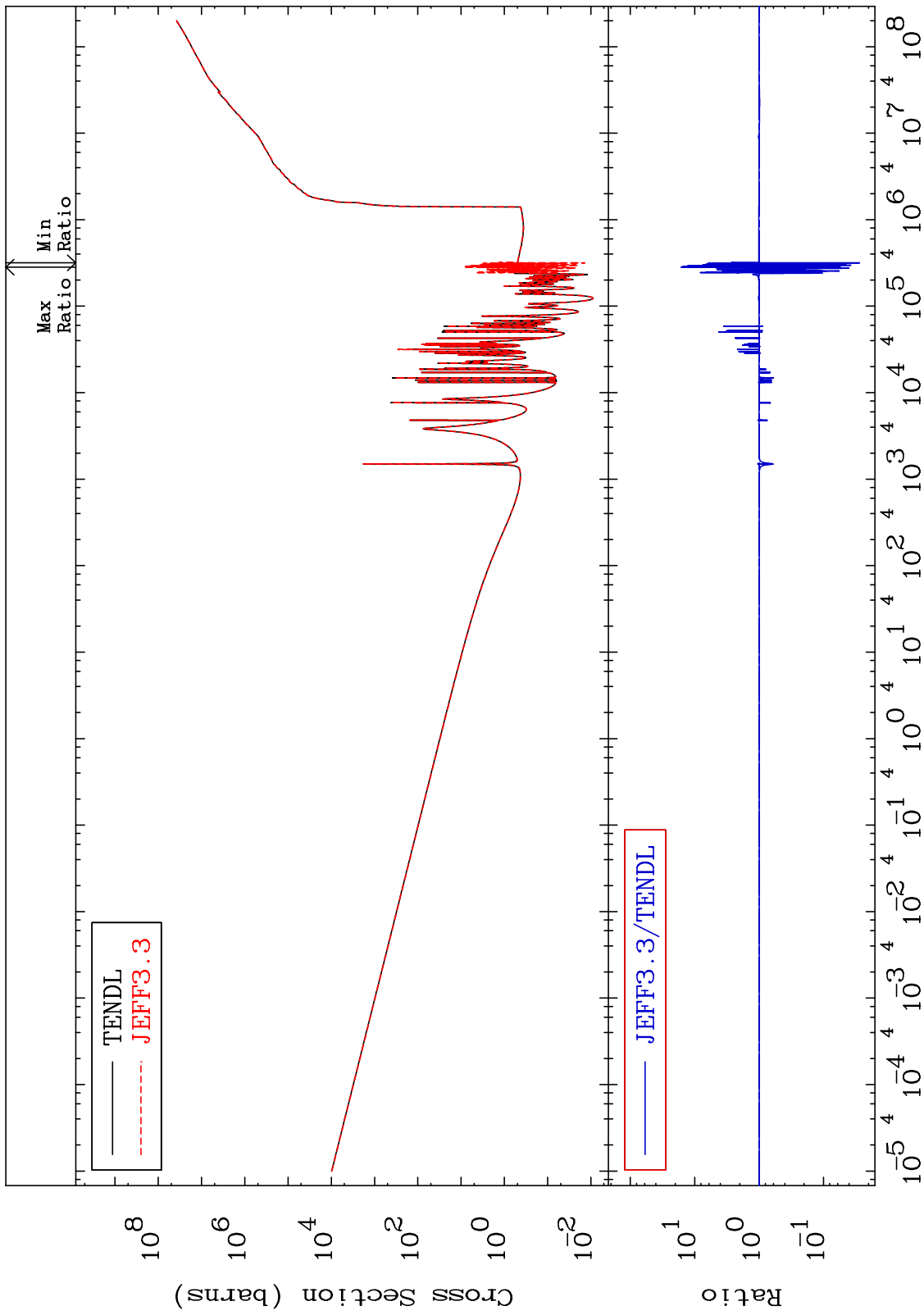
Incident Energy (eV)

22-Ti-49

MAT 2234

Kerma non-elastic (all but mt2)
Cross Section

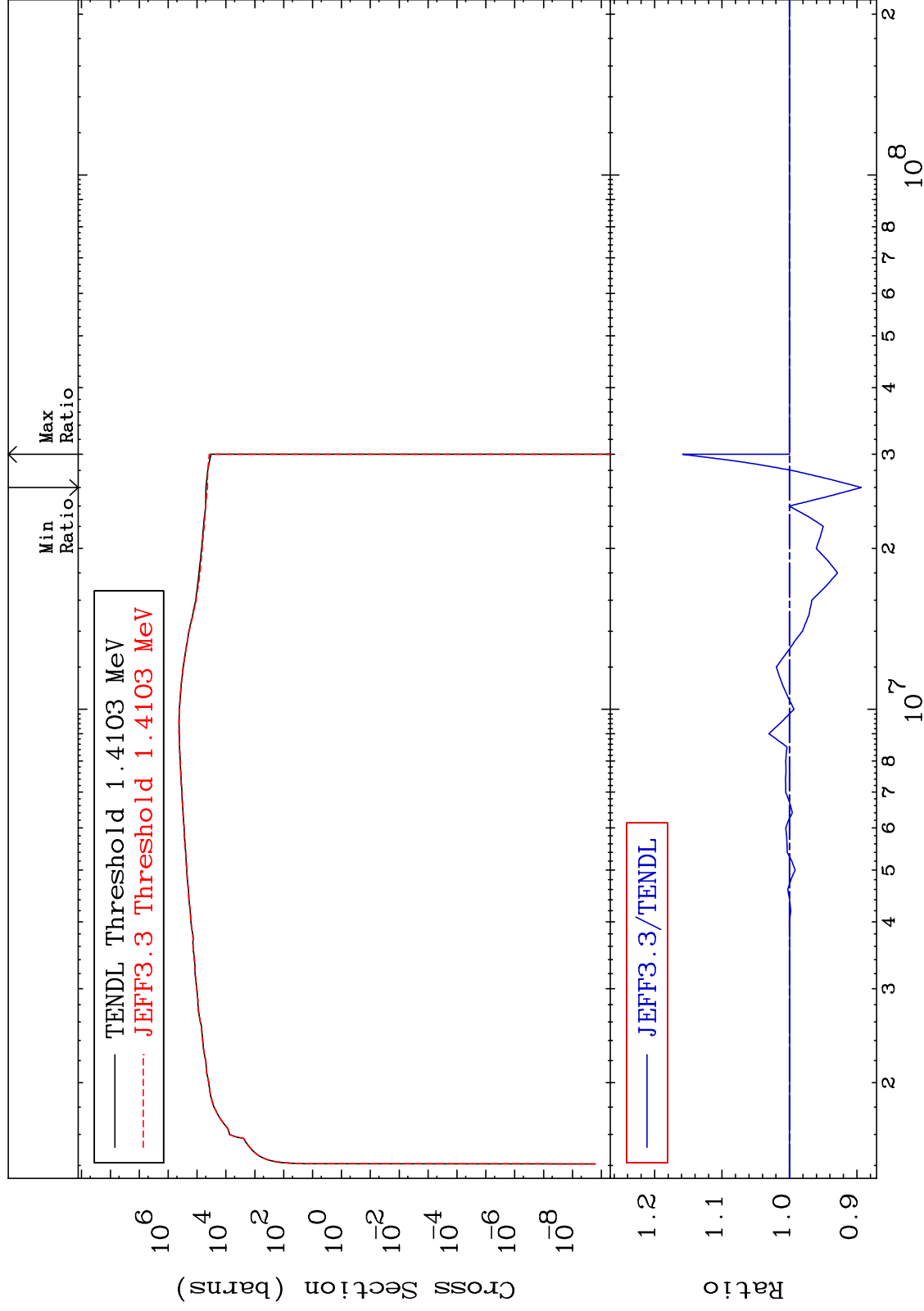
22-Ti-49
-97.26 To 1542. %



MAT 2234

Kerma inelastic (mt51-91)
Cross Section

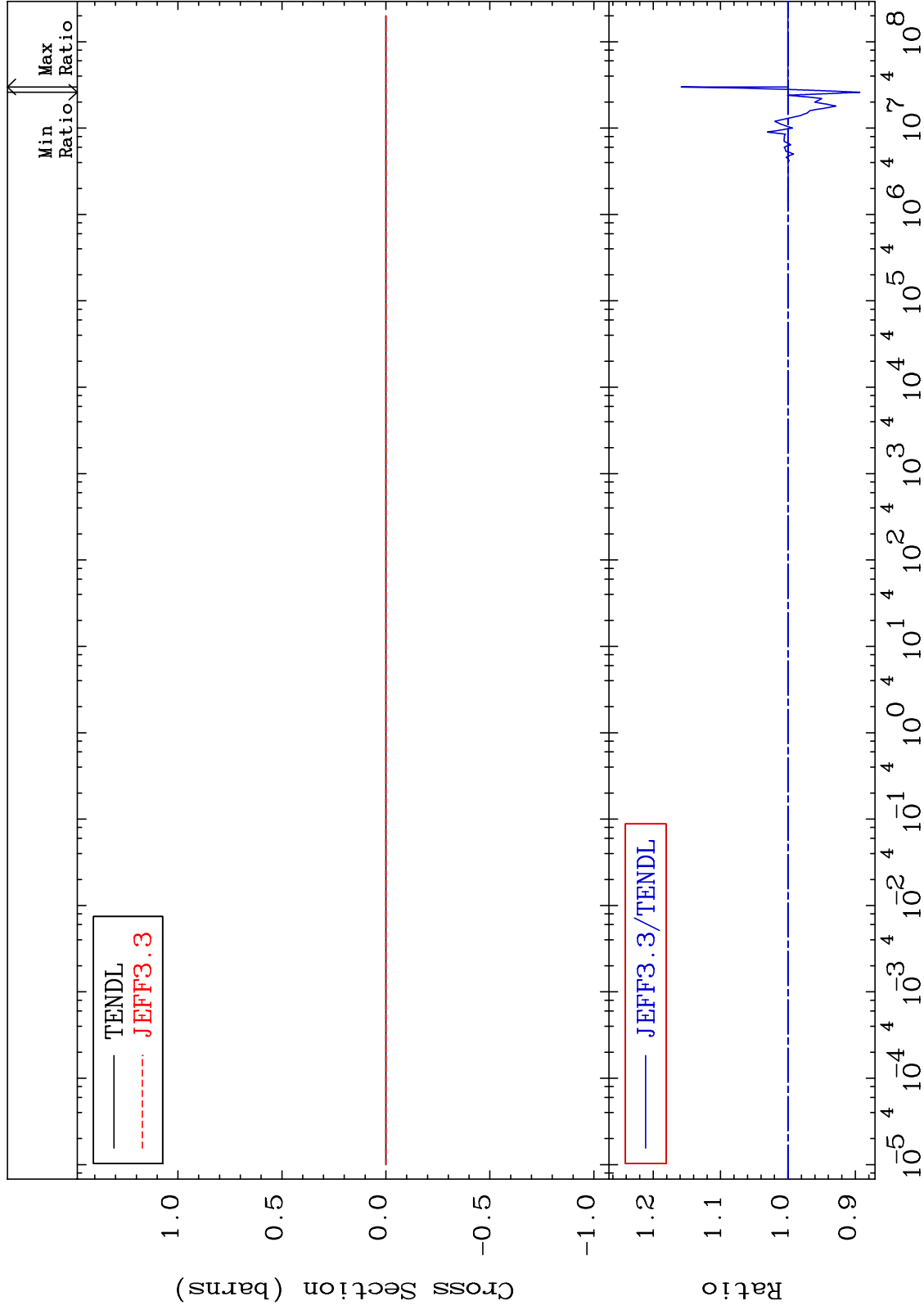
22-Ti-49
-10.66 To 15.84 %



MAT 2234

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

22-Ti-49
-10.66 To 15.84 %



70

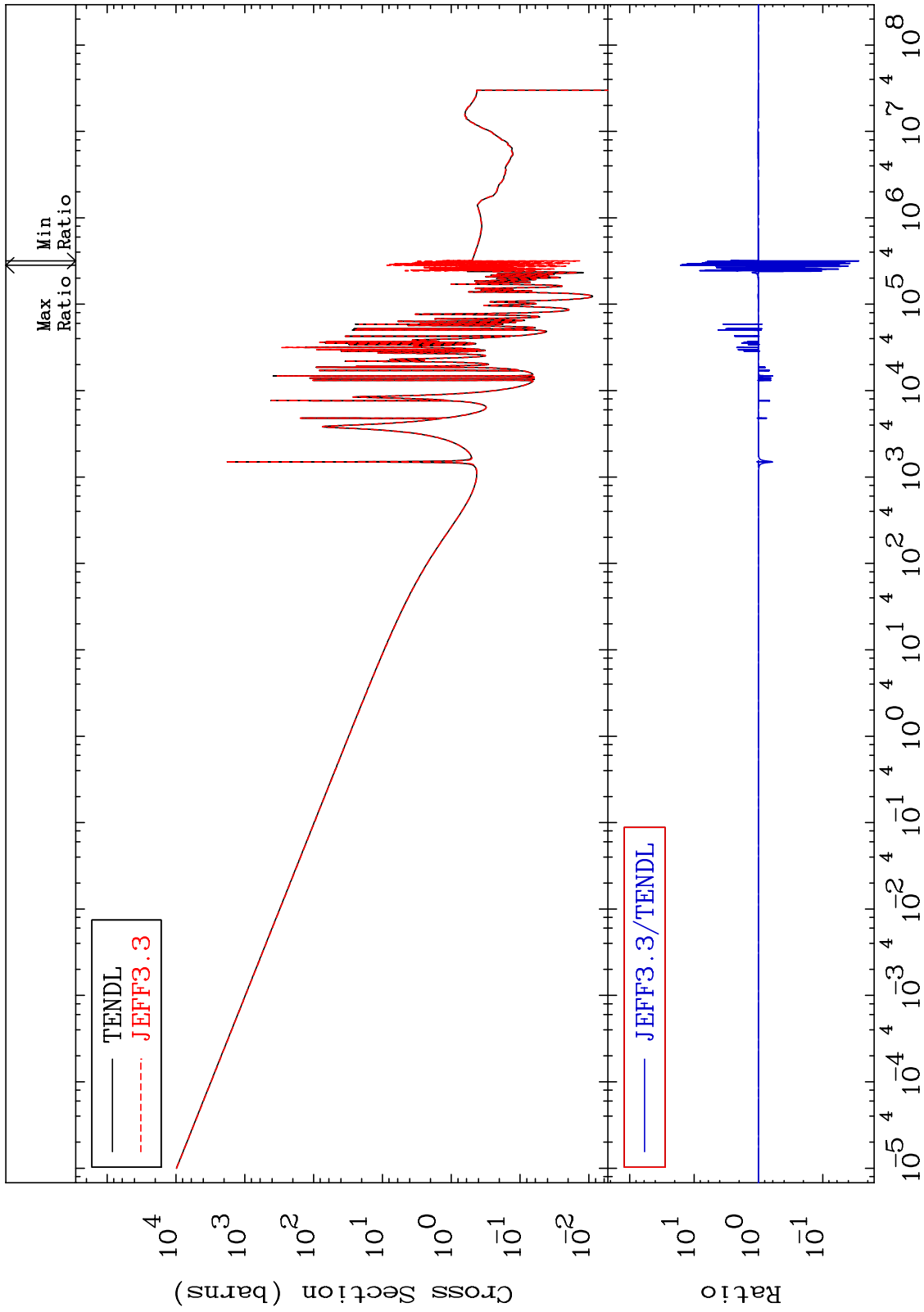
Incident Energy (eV)

22-Ti-49

MAT 2234

Kerma capture (mt102)
Cross Section

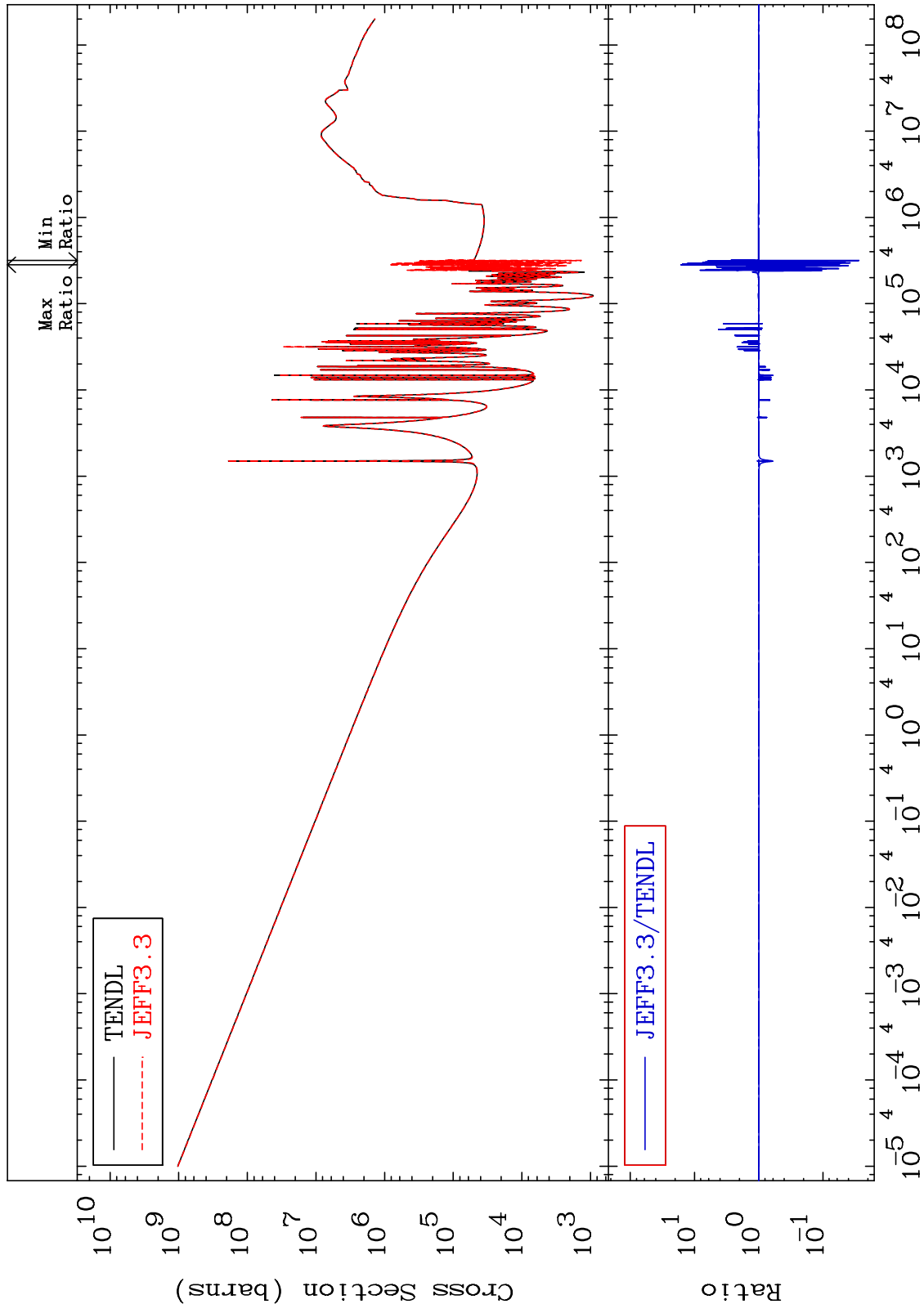
22-Ti-49
-97.26 To 1542. %



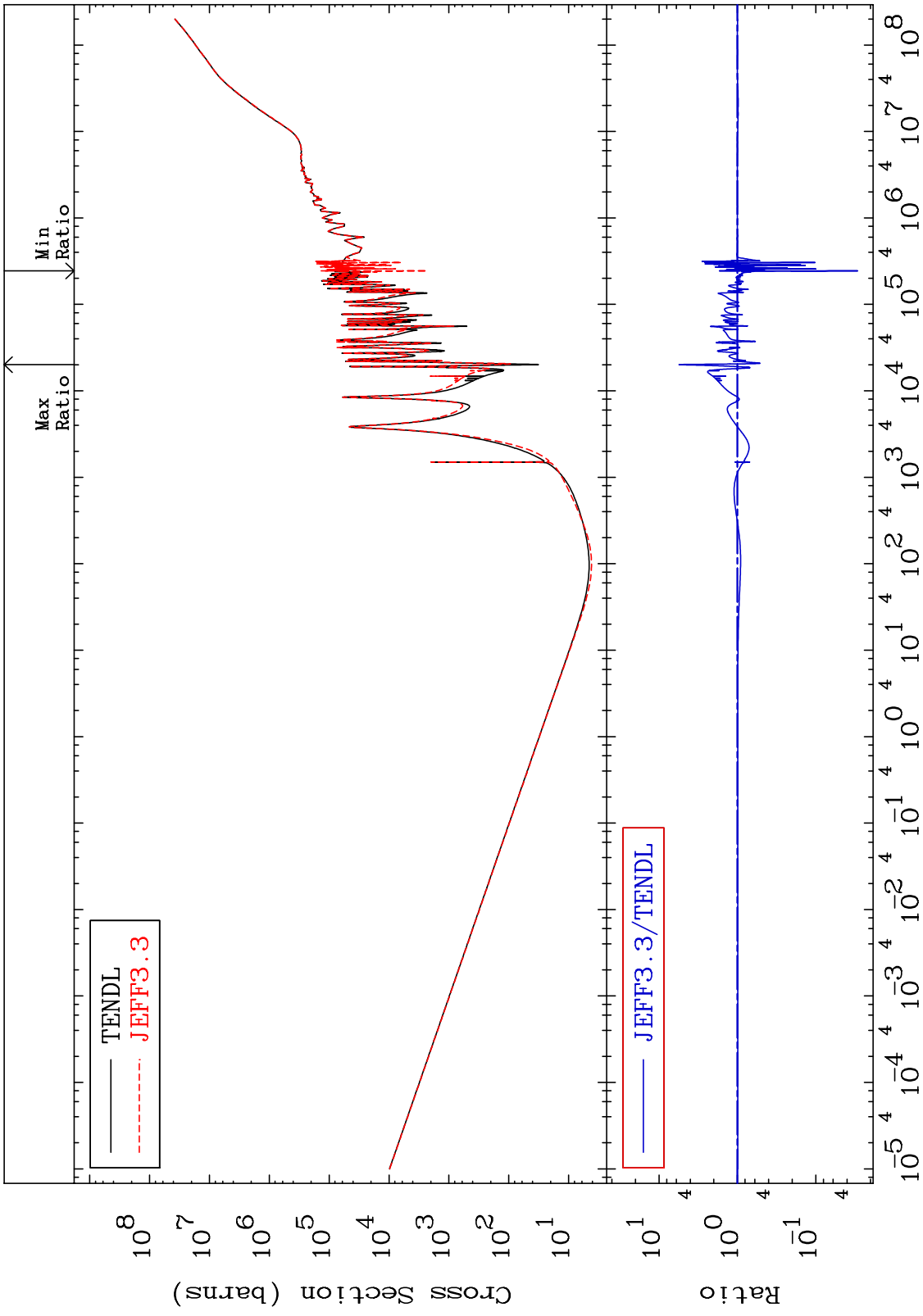
MAT 2234

Total photon (eV-barns)
Cross Section

22-Ti-49
-97.26 To 1541. %



MAT 2234 Total kinematic kerma (high limit) 22-Ti-49
Cross Section -97.09 To 455.8 %

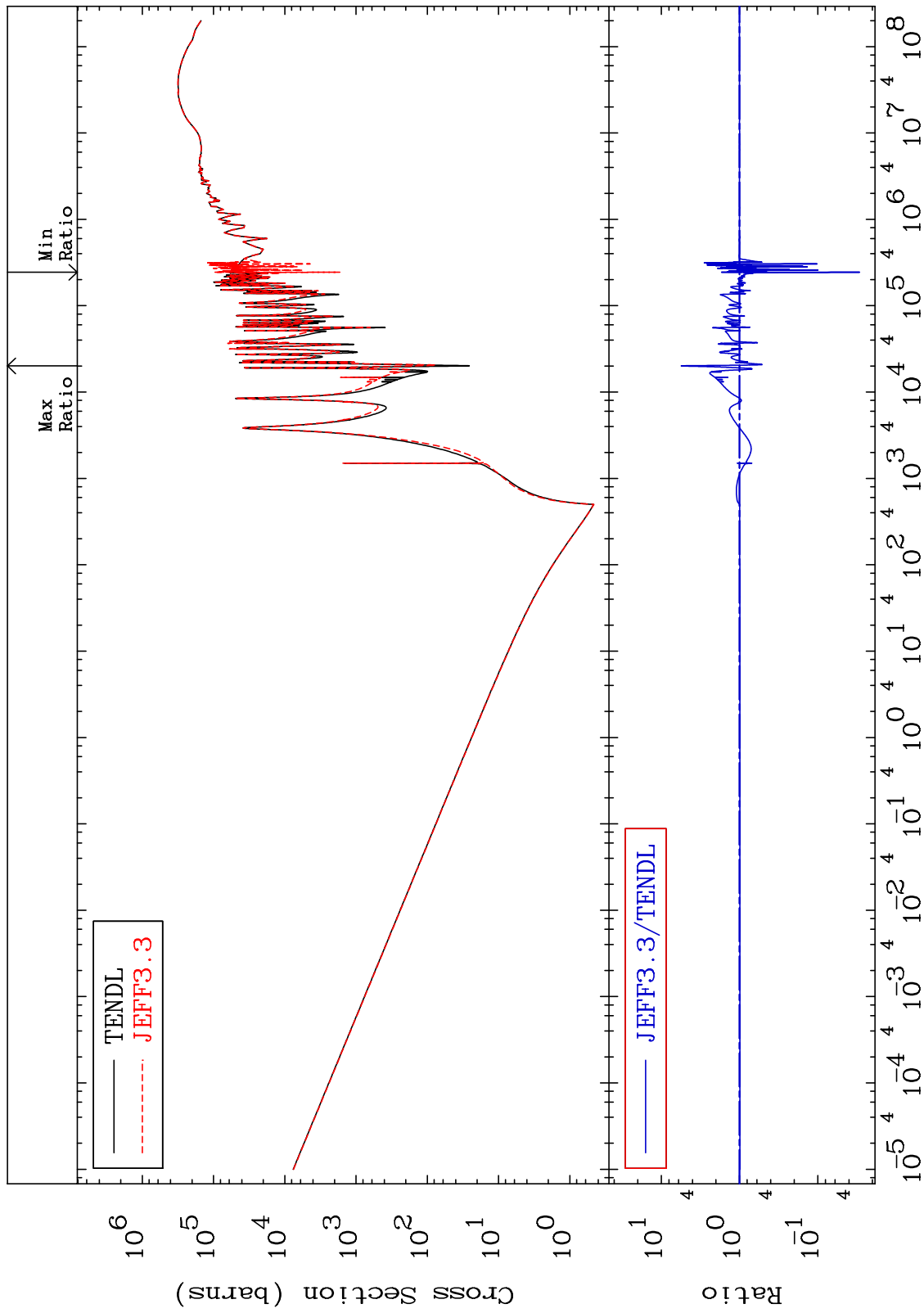


73 Incident Energy (eV) 22-Ti-49

MAT 2234

Dpa total (eV-barns)
Cross Section

22-Ti-49
-97.09 To 456.0 %



74

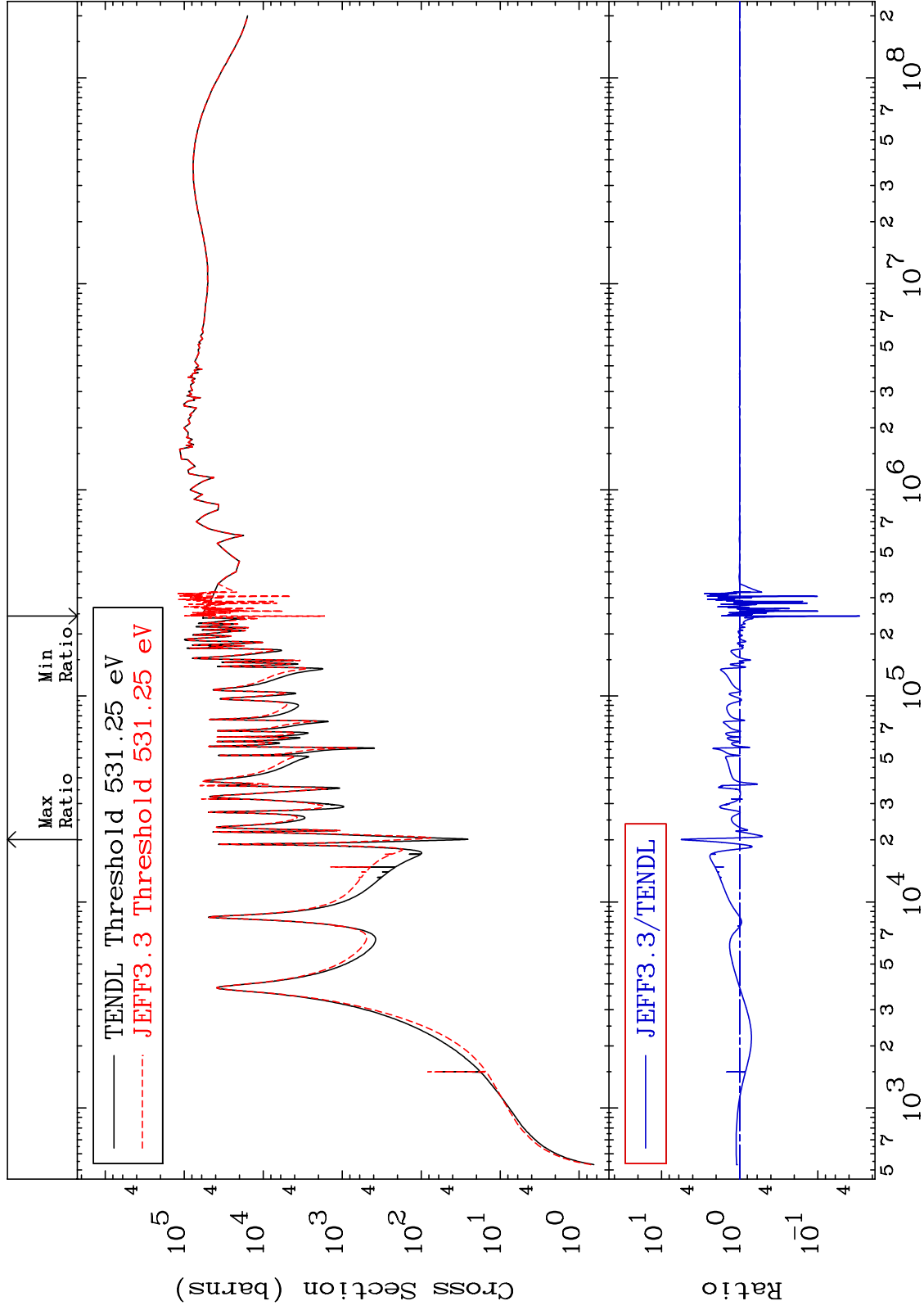
Incident Energy (eV)

22-Ti-49

MAT 2234

Dpa elastic (mt2)
Cross Section

22-Ti-49
-97.09 To 459.6 %



75

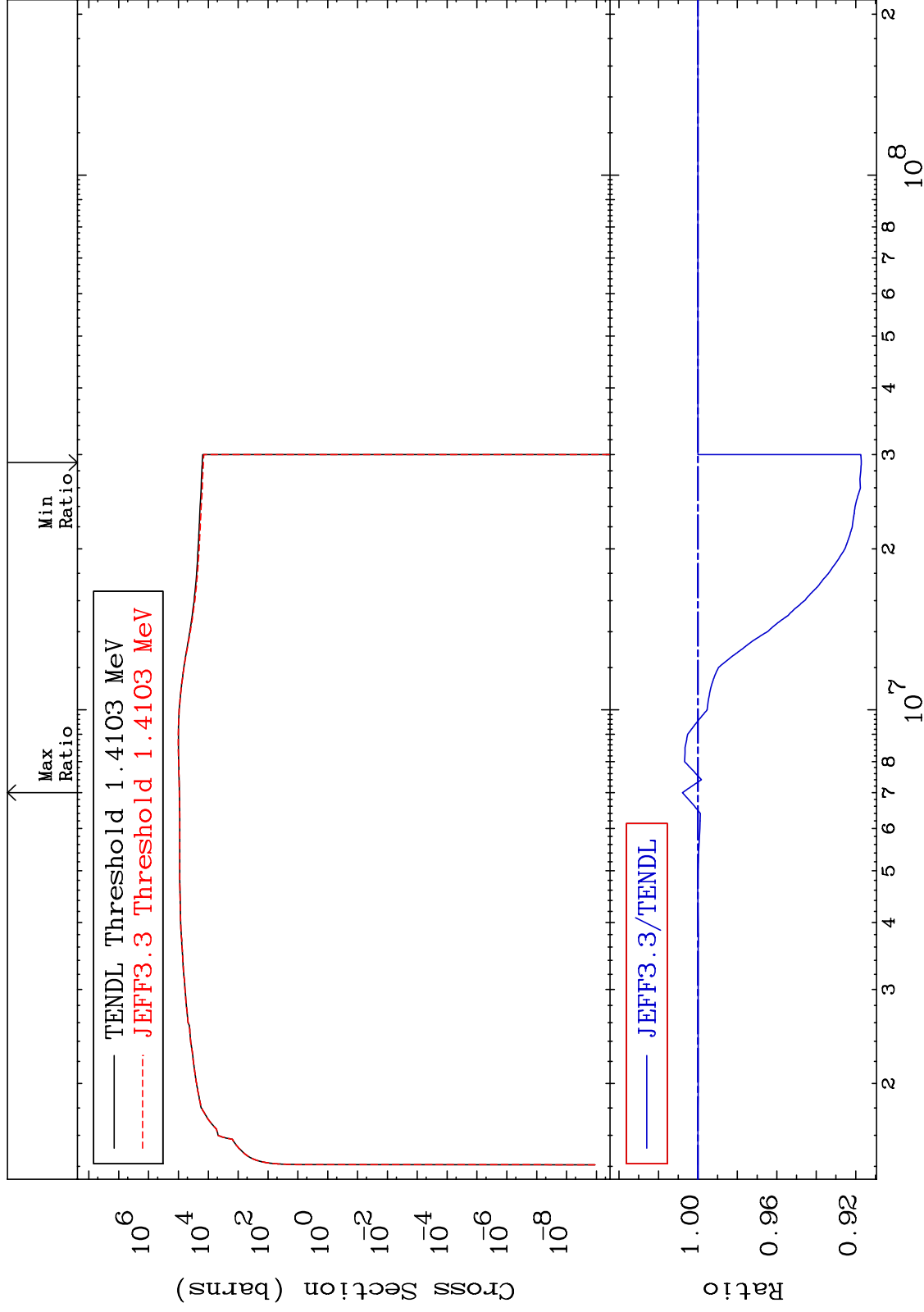
Incident Energy (eV)

22-Ti-49

MAT 2234

Dpa inelastic (mt51-91)
Cross Section

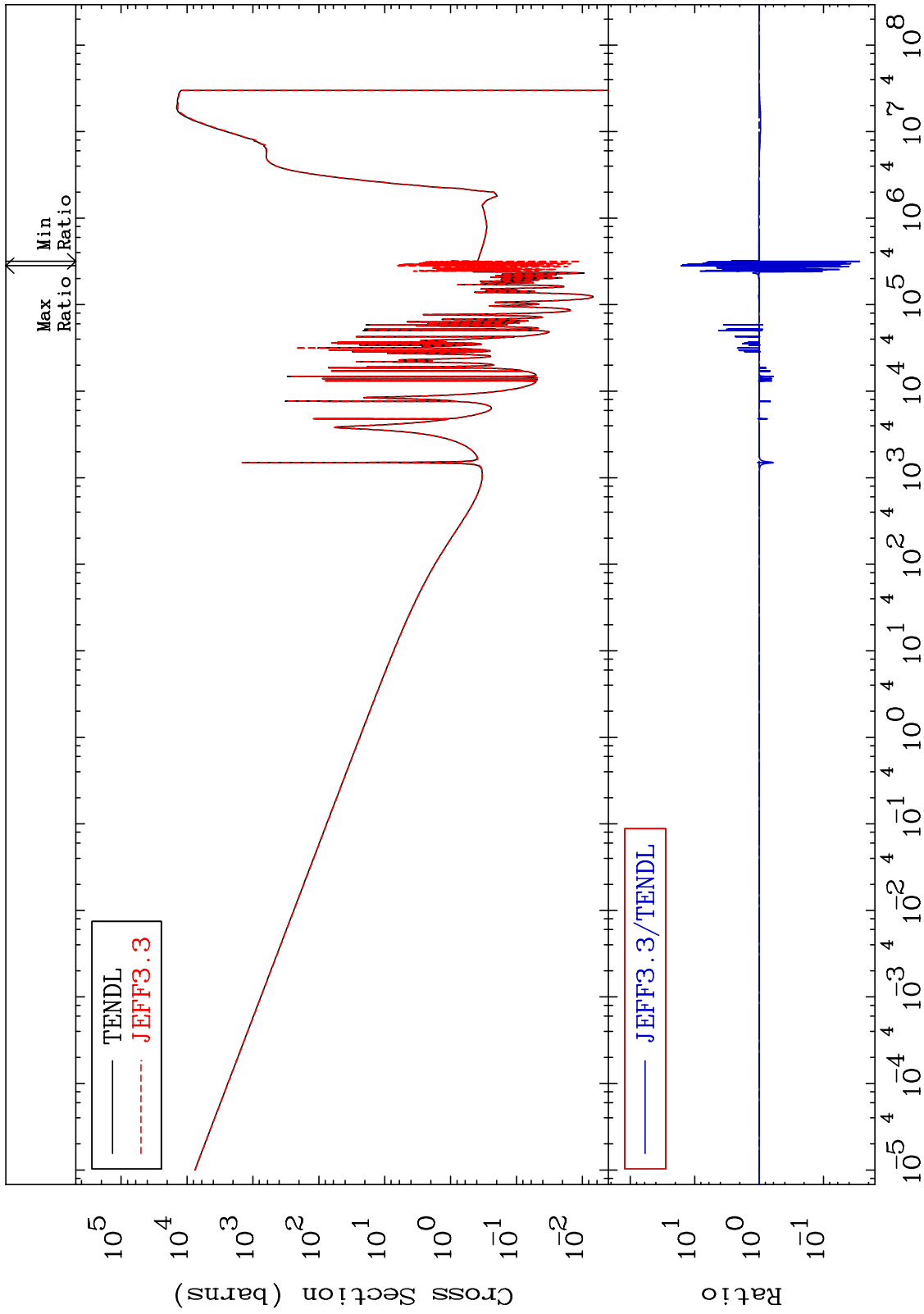
22-Ti-49
-8.284 To 0.784 %



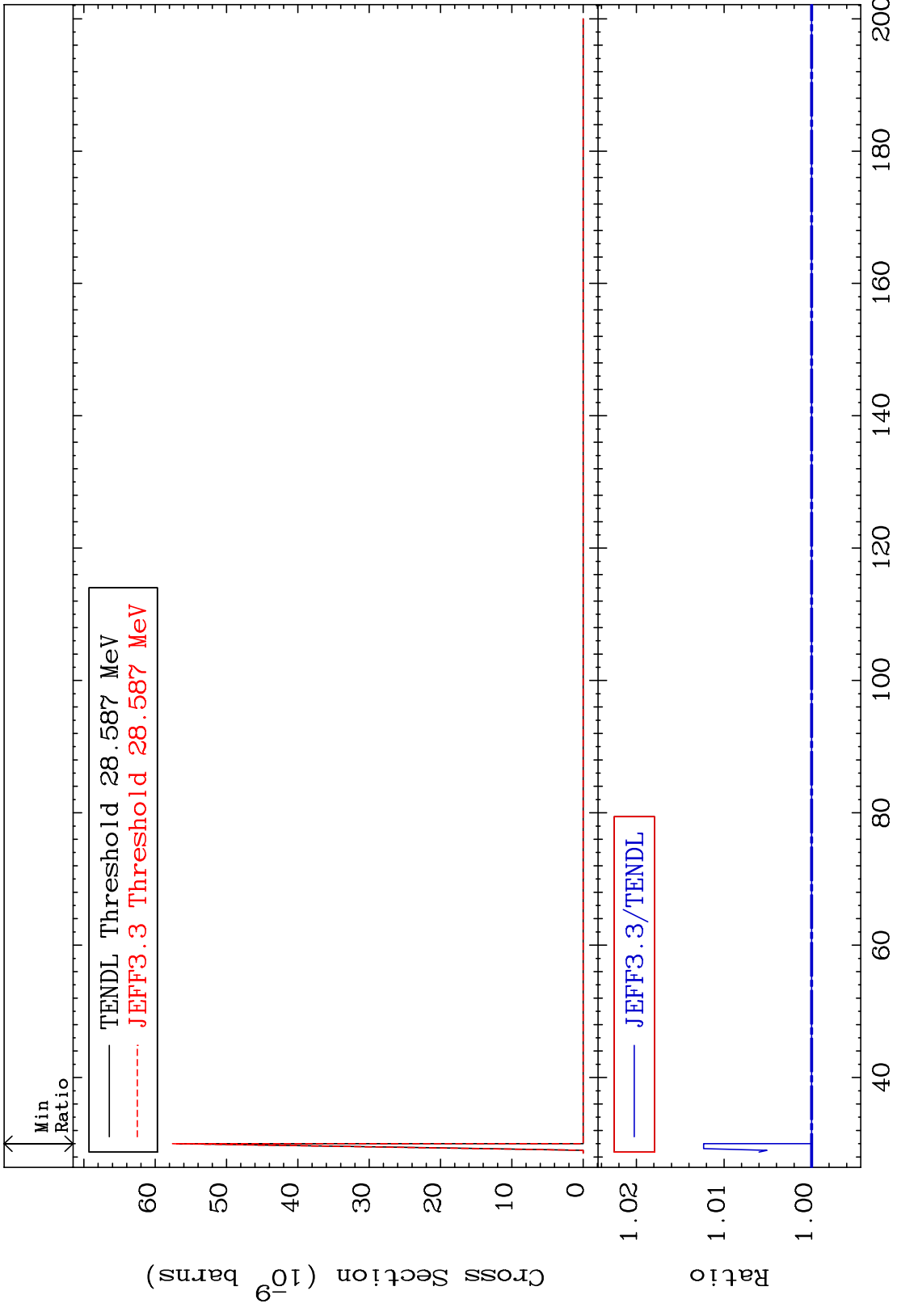
MAT 2234

Dpa disappearance (mt102 -120)
Cross Section

22-Ti-49
-97.26 To 1542. %



MAT 2234 (n,2n) d:21-Sc-46g 22-Ti-49
 Radionuclide Production Cross Section 0.000 To 1.234 %

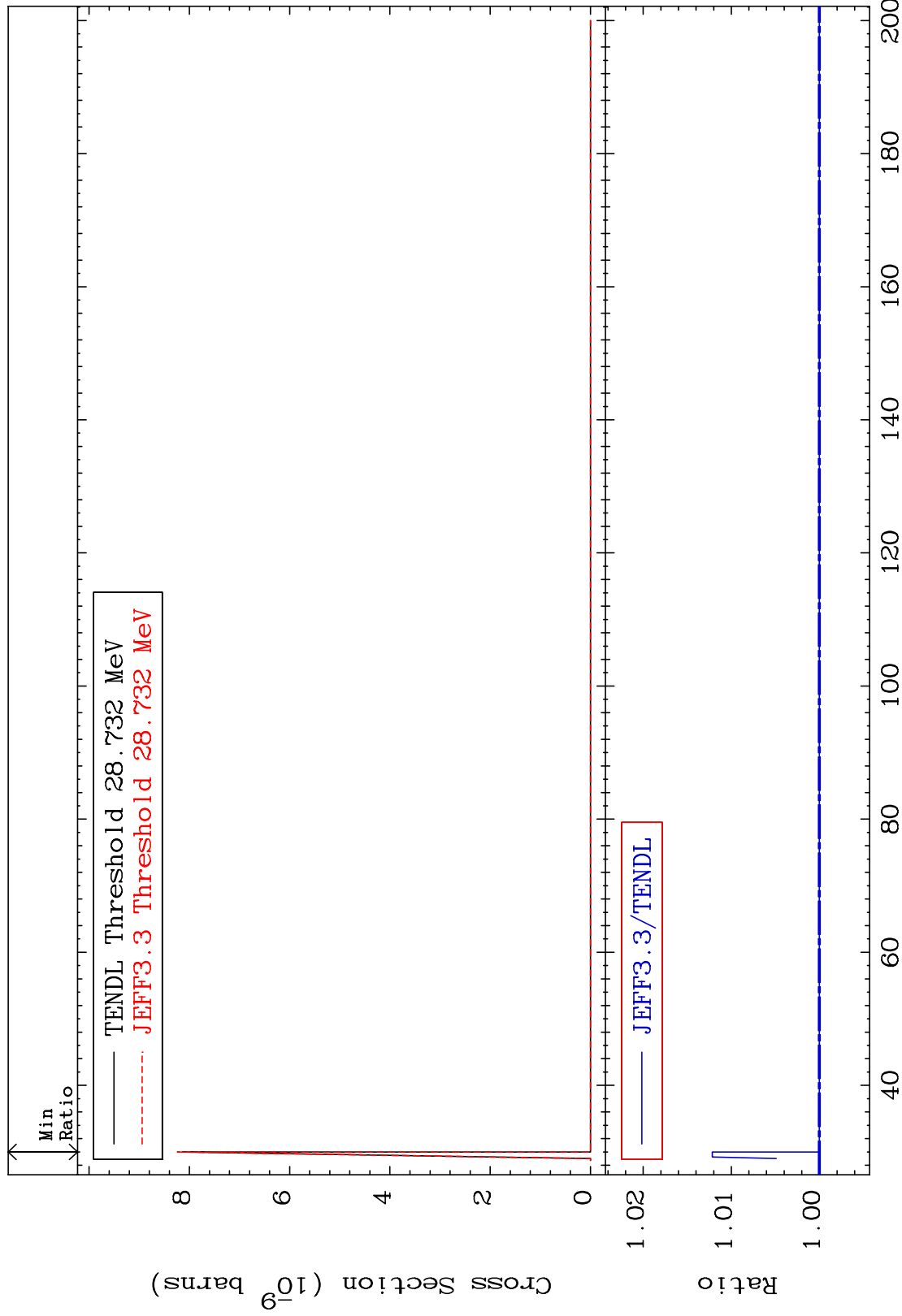


MAT 2234

(n,2n) d:21-Sc-46m2

22-Ti-49

Radionuclide Production Cross Section 0.000 To 1.216 %

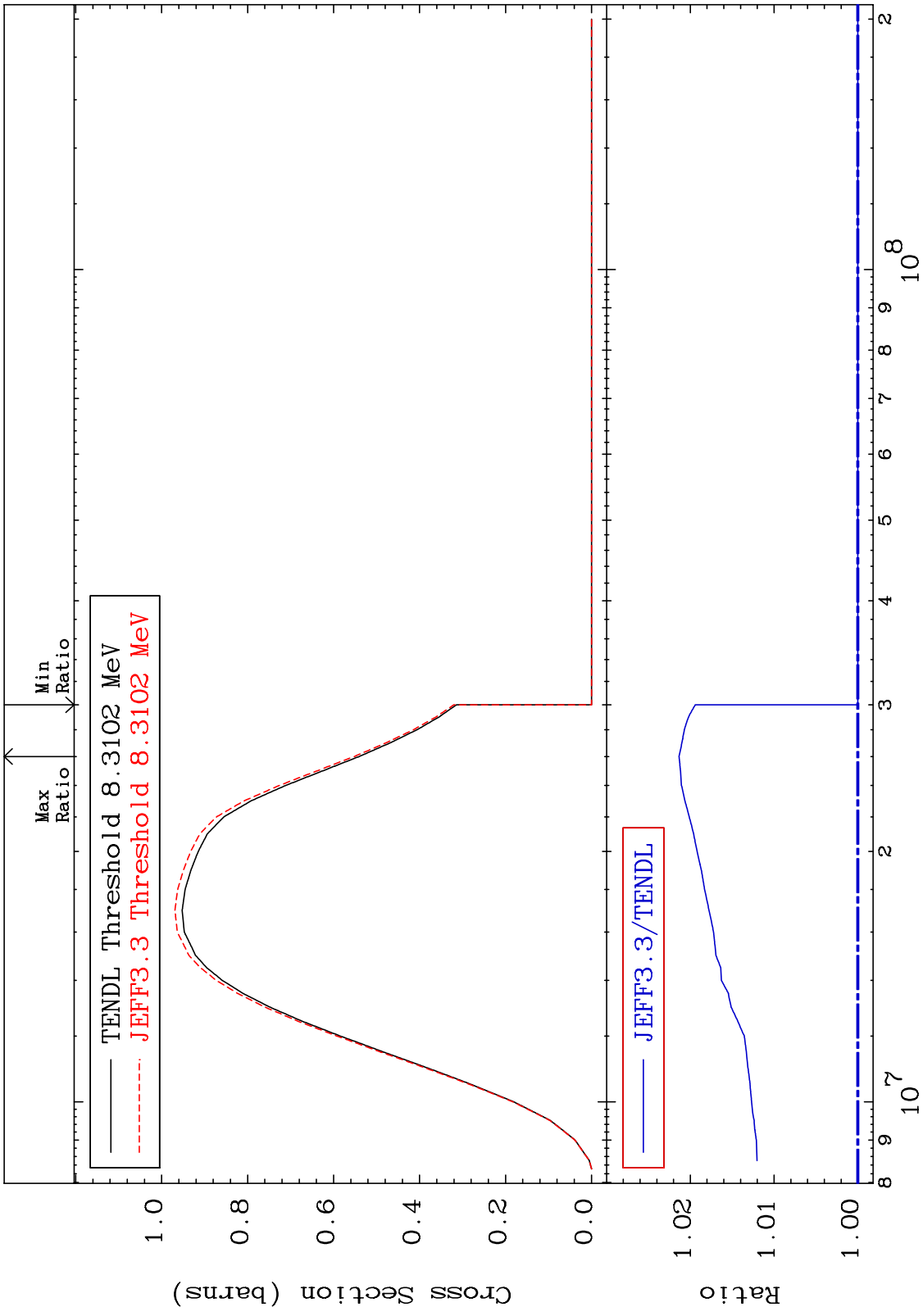


79

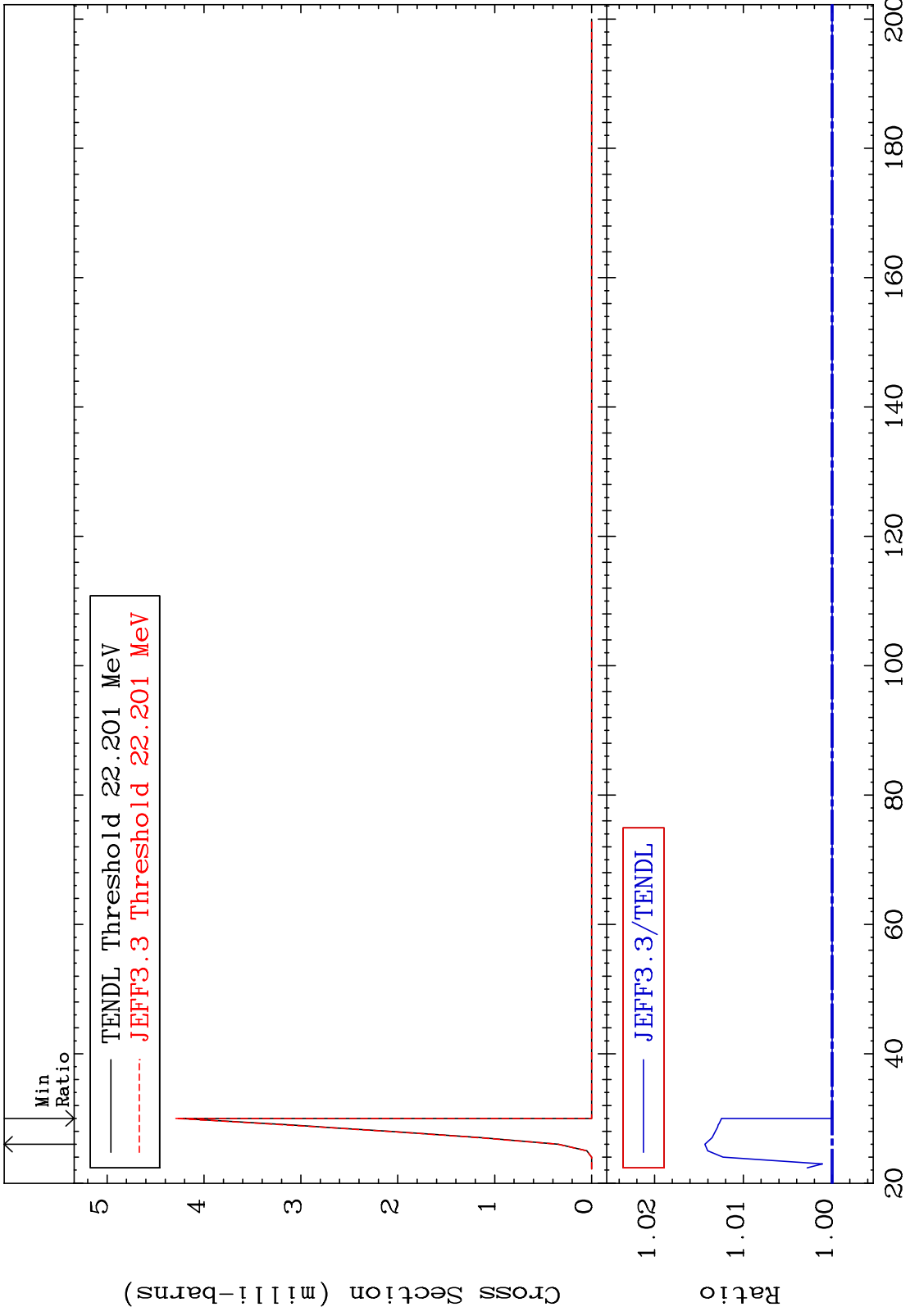
Incident Energy (MeV)

22-Ti-49

MAT 2234 (n,2n):22-Ti-48g 22-Ti-49
Radionuclide Production Cross Section 0.000 To 2.134 %



MAT 2234 (n,n') t:21-Sc-46g 22-Ti-49
 Radionuclide Production Cross Section 0.000 To 1.433 %



MAT 2234

(n, n') t:21-Sc-46m2

22-Ti-49

Radionuclide Production Cross Section 0.000 To 1.390 %

