

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

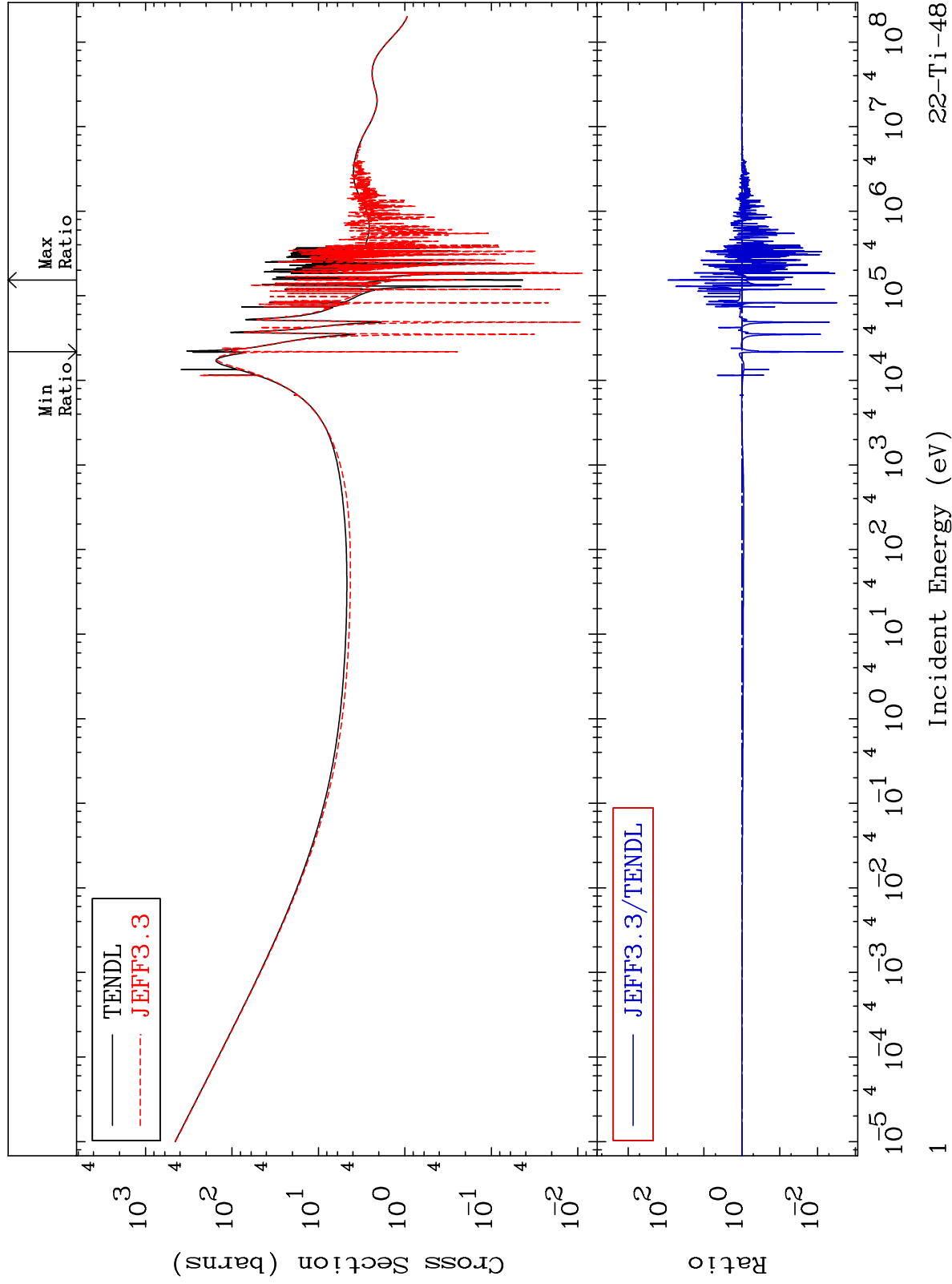
MAT 2231

Total

22-Ti-48

Cross Section

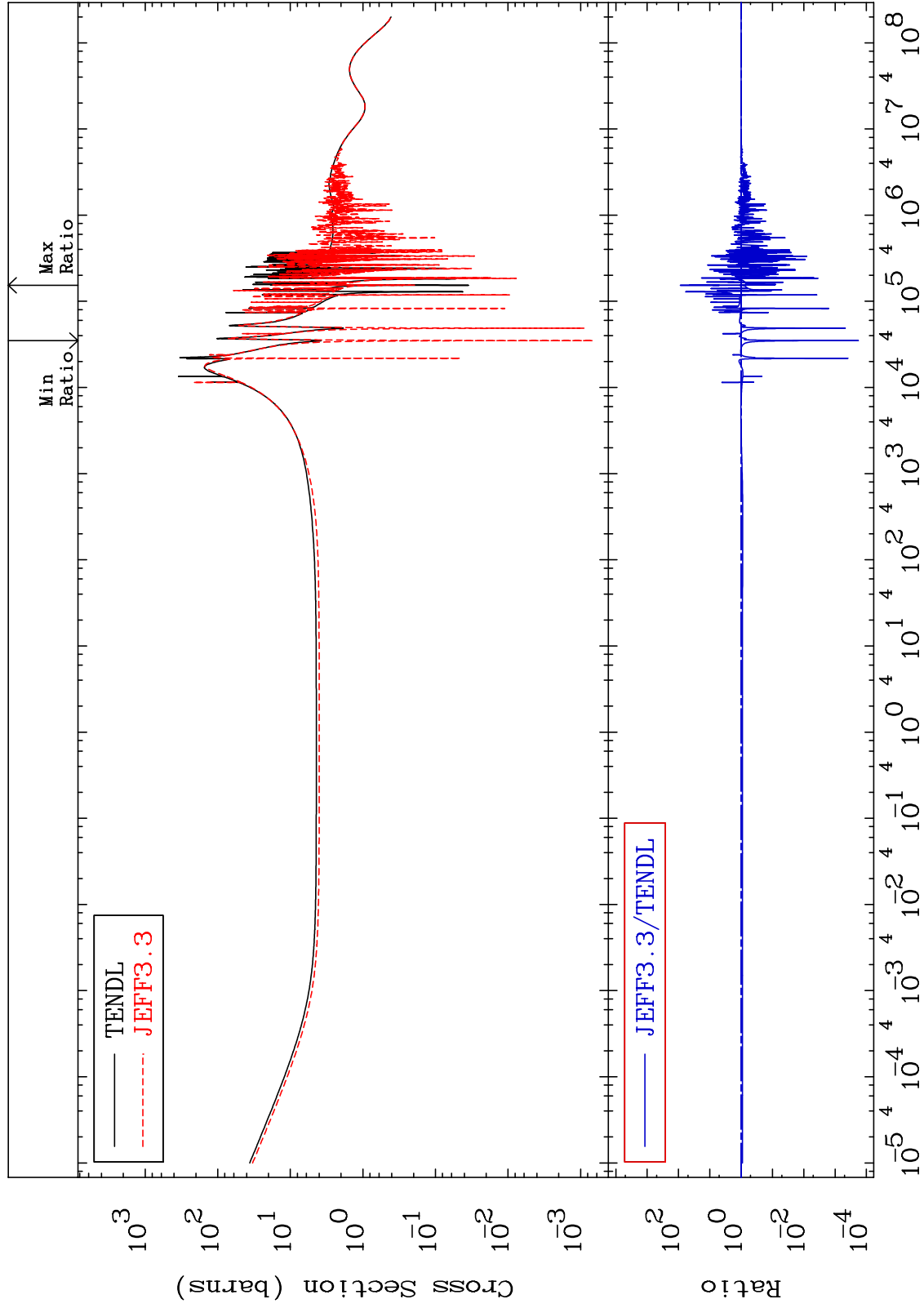
-99.78 To 8782. %



MAT 2231

Elastic
Cross Section

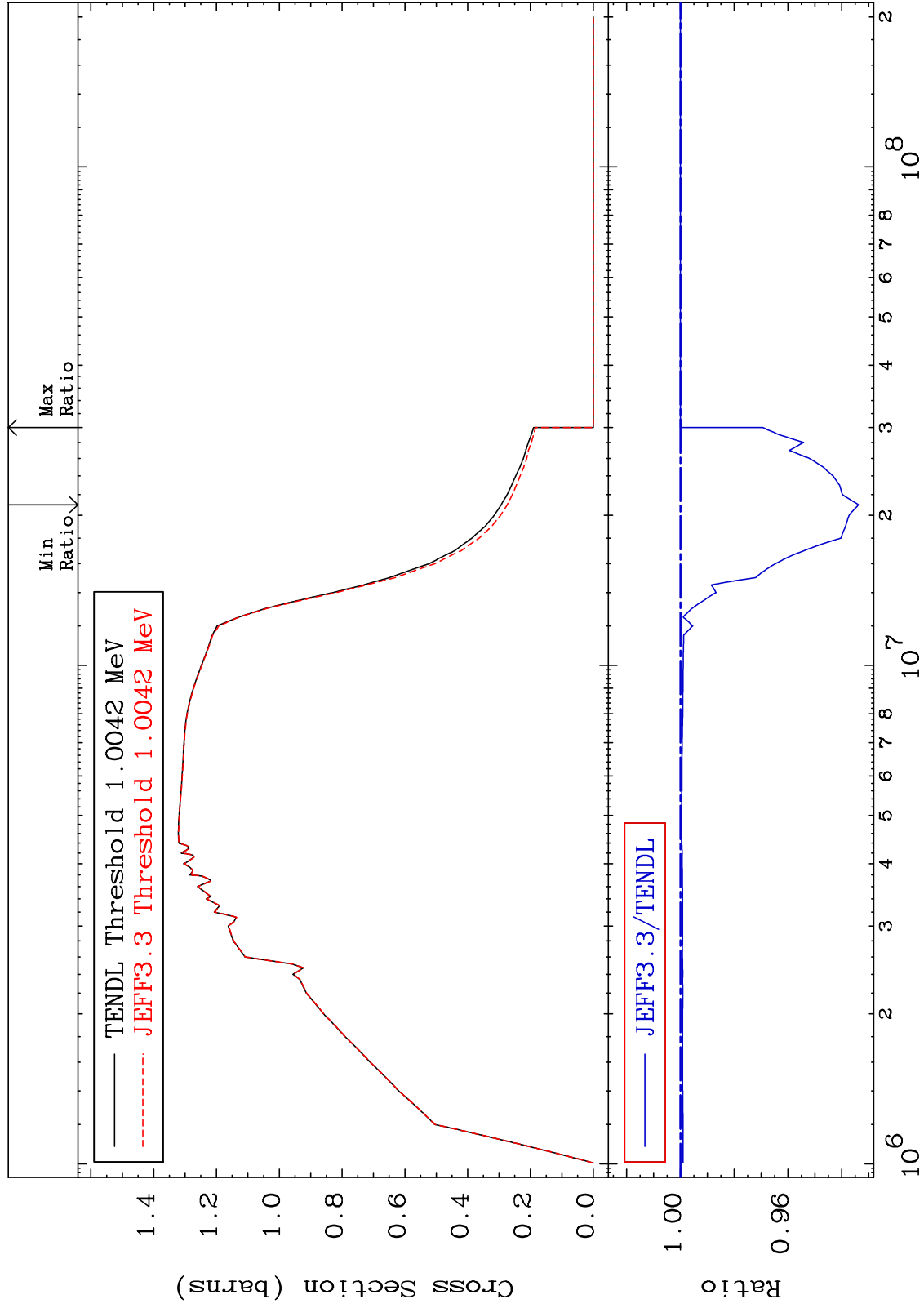
22-Ti-48
-99.98 To 8560. %



MAT 2231

Inelastic
Cross Section

22-Ti-48
-6.622 To 0.000 %



Incident Energy (eV)

22-Ti-48

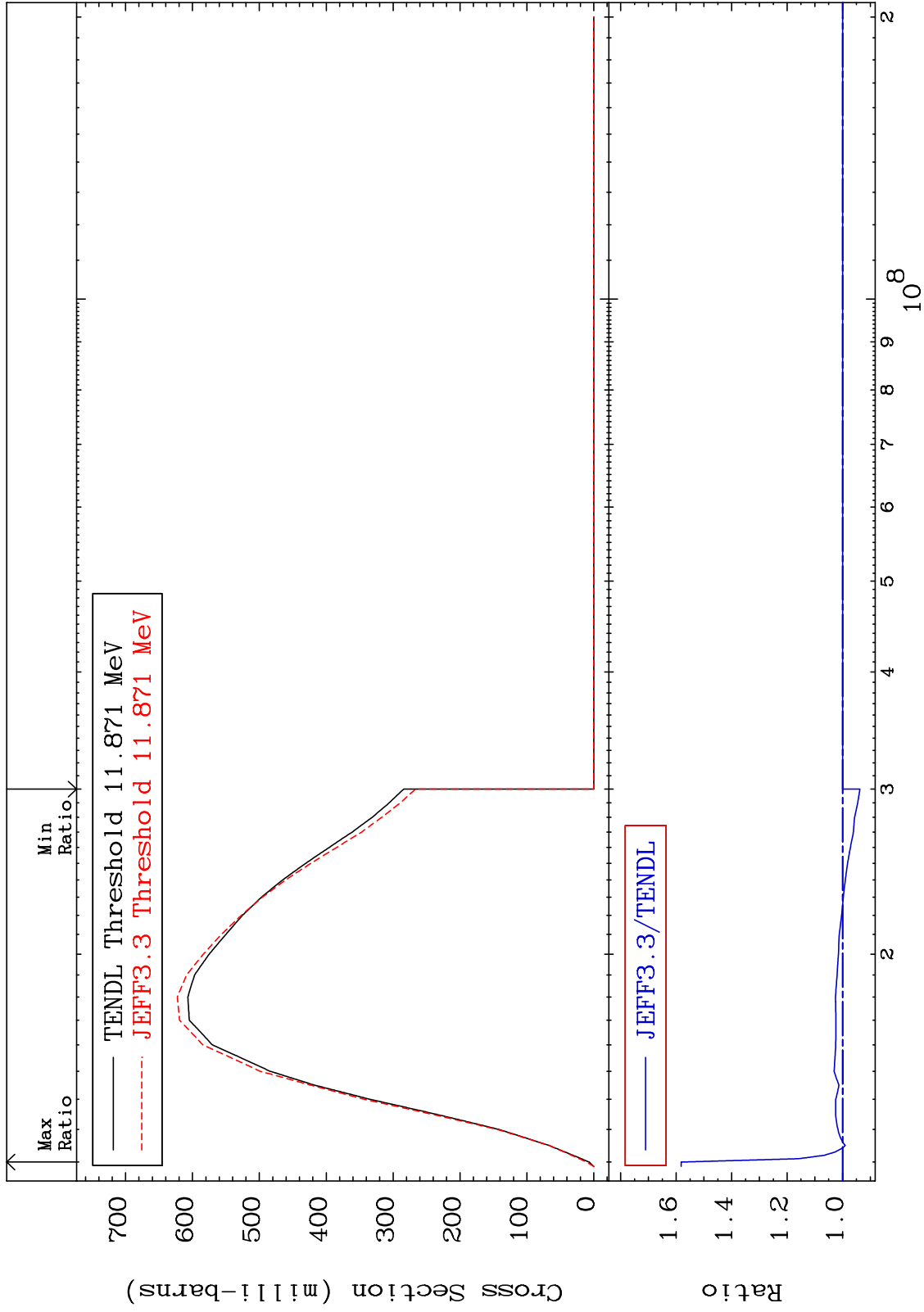
MAT 2231

(n,2n)

22-Ti-48

Cross Section

-6.251 To 58.18 %



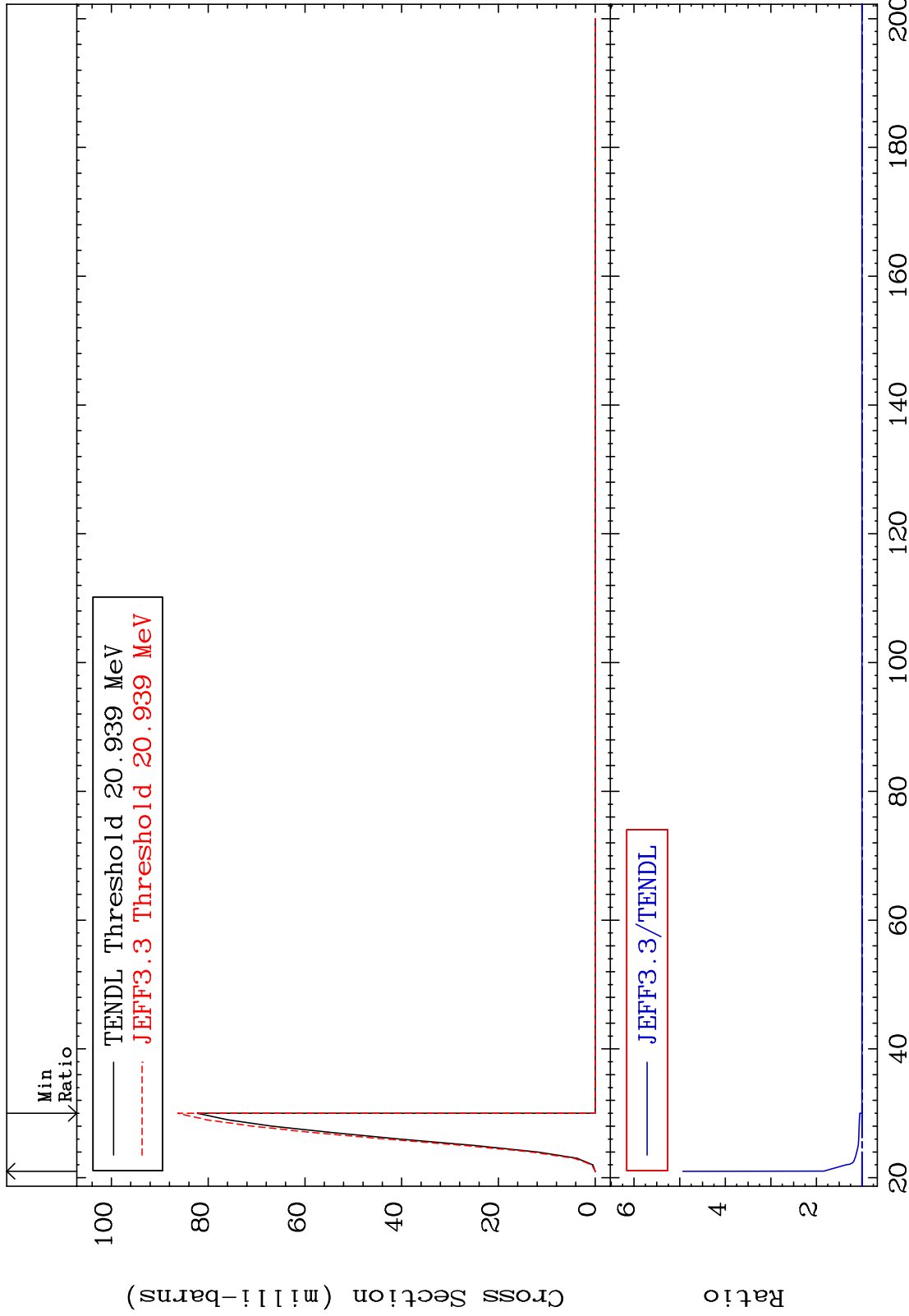
MAT 2231

(n,3n)

22-Ti-48

Cross Section

0.000 To 392.9 %



Incident Energy (MeV)

22-Ti-48

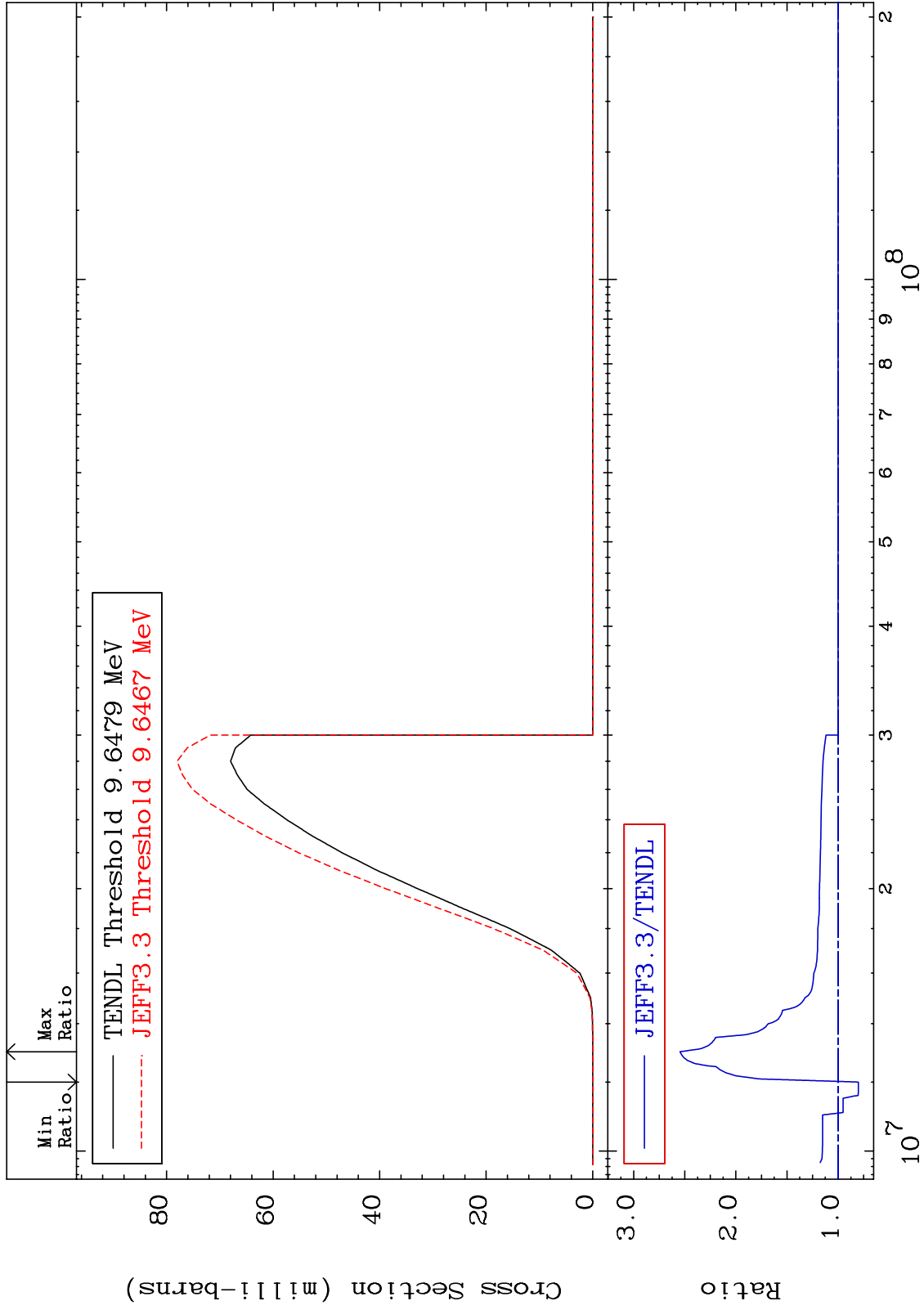
MAT 2231

(n, n') α

22-Ti-48

Cross Section

-19.90 To 154.6 %



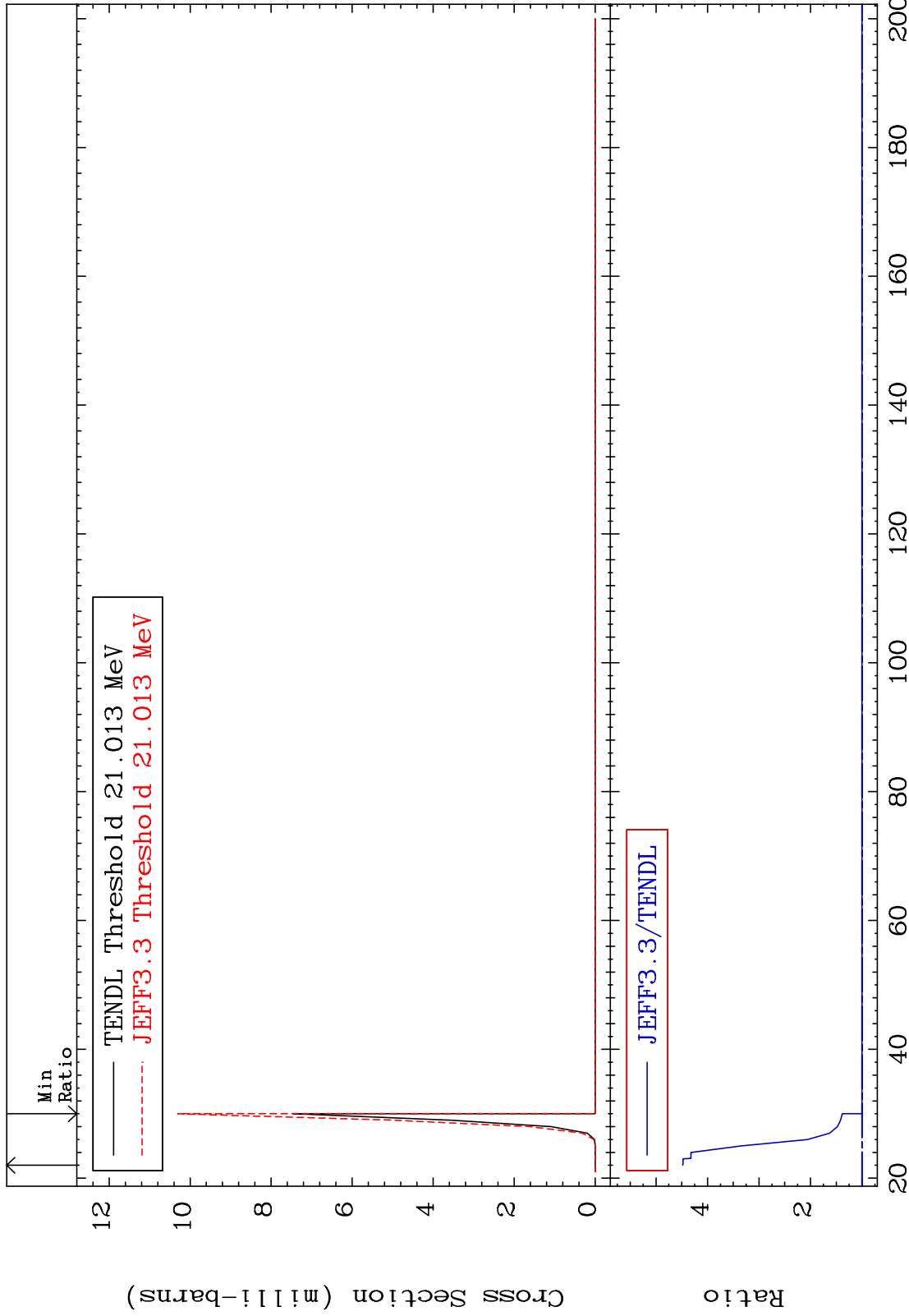
MAT 2231

(n,2n) α

22-Ti-48

Cross Section

0.000 To 347.8 %



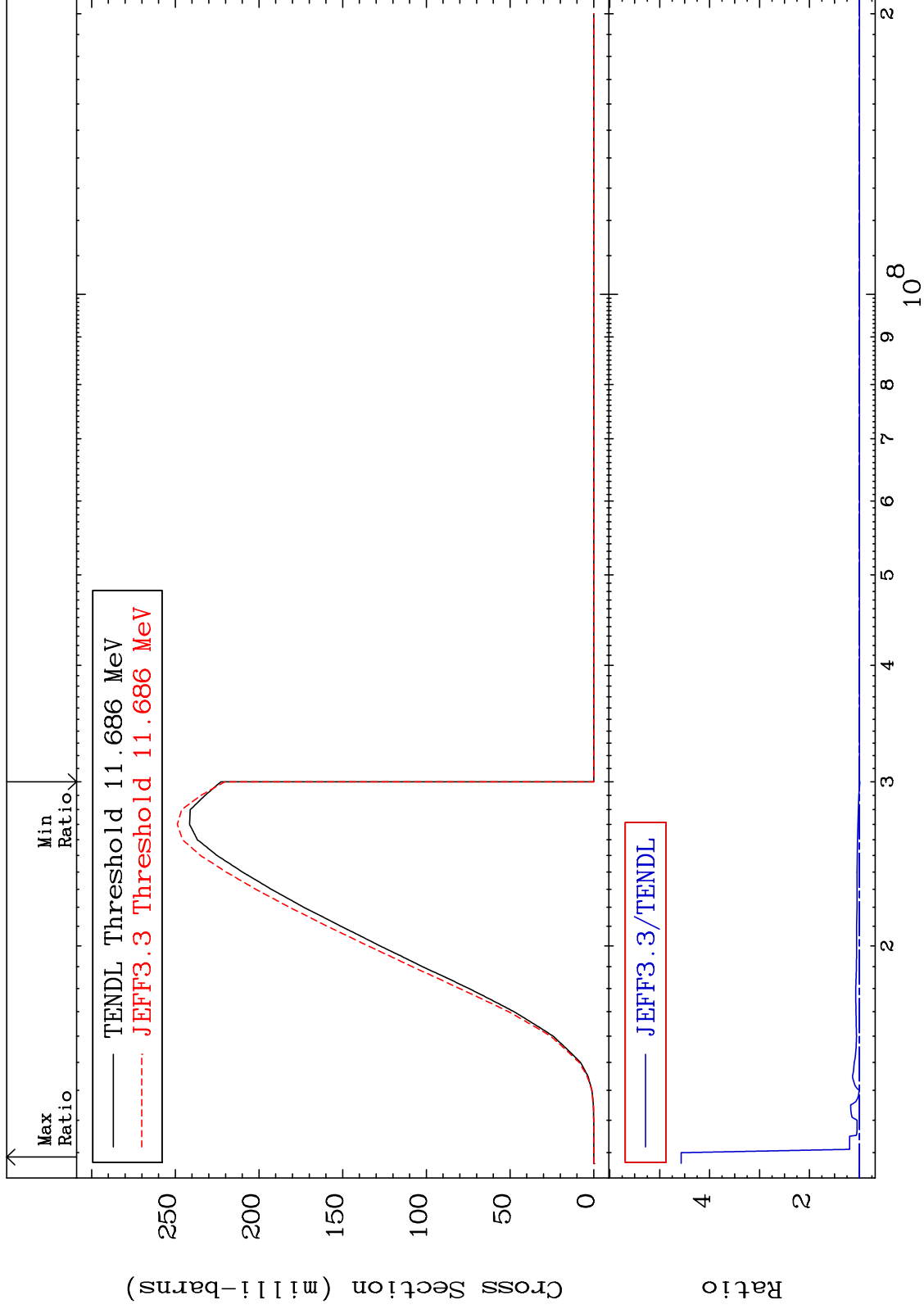
22-Ti-48

Incident Energy (MeV)

MAT 2231

(n,n') p
Cross Section

22-Ti-48
-1.039 To 356.9 %



8

Incident Energy (eV)

22-Ti-48

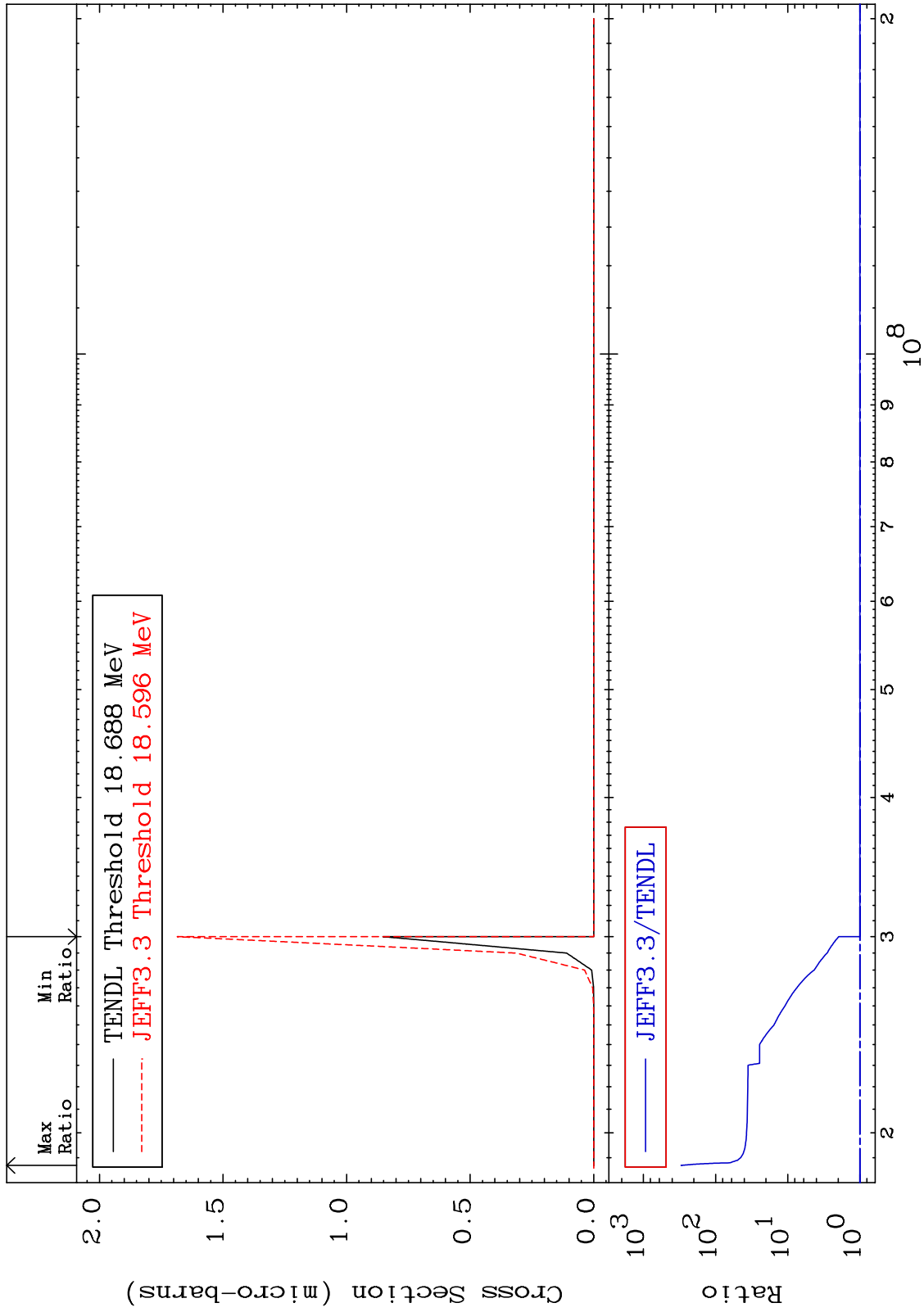
MAT 2231

(n,n') 2α

22-Ti-48

Cross Section

0.000 To 9999. %



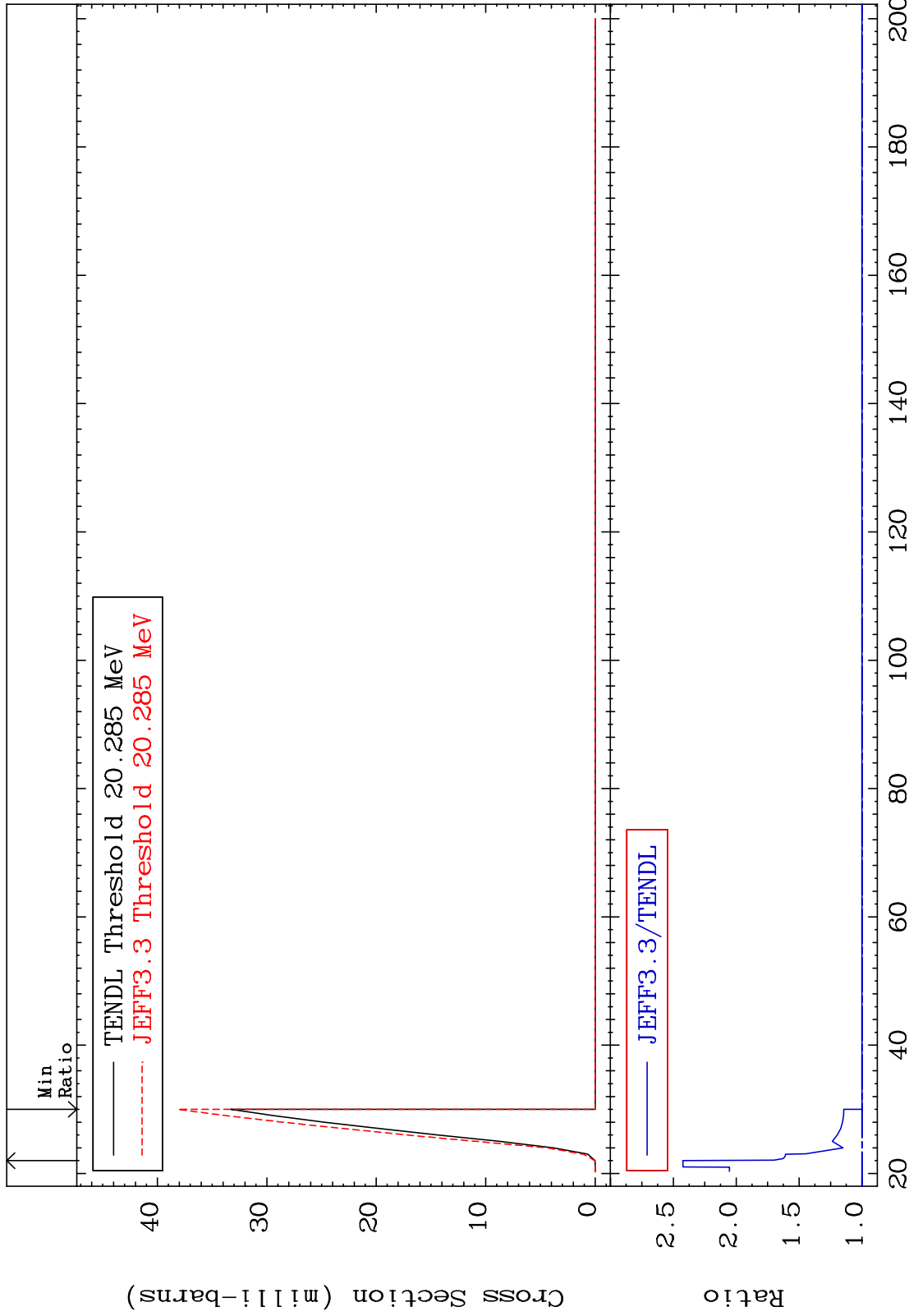
MAT 2231

(n,n') d

22-Ti-48

Cross Section

0.000 To 142.4 %



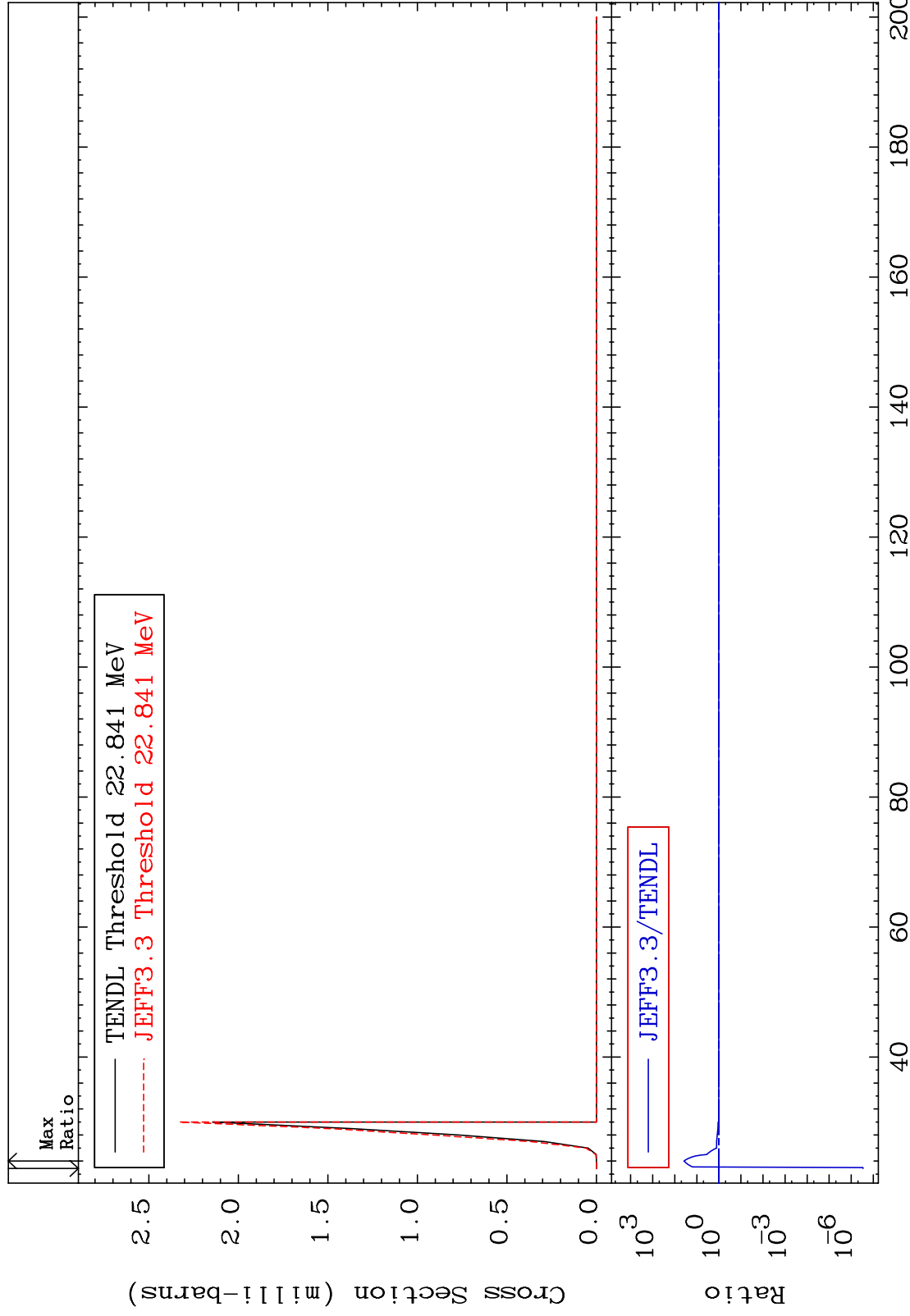
MAT 2231

(n,n') t

22-Ti-48

Cross Section

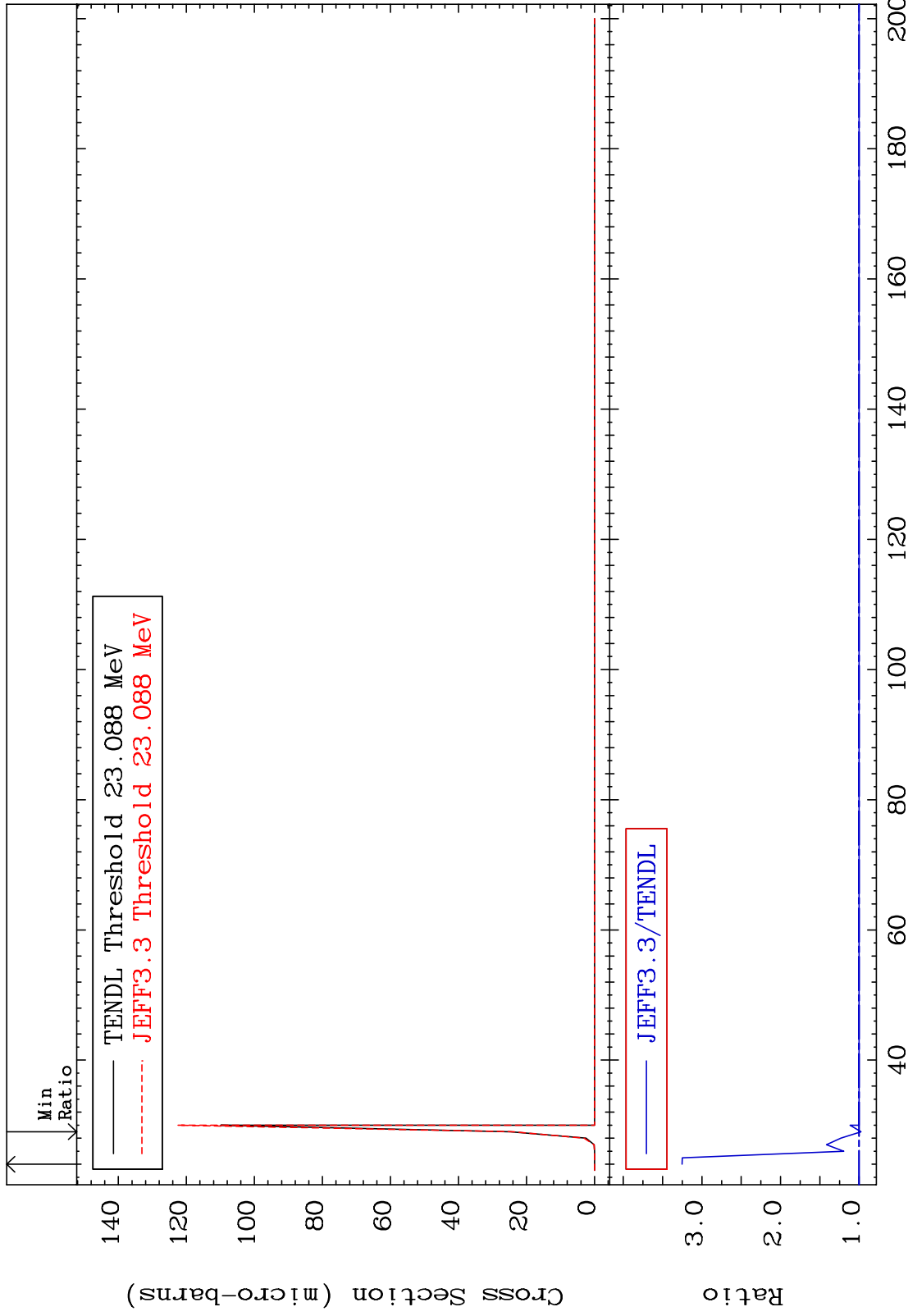
-100.0 To 3684. %



MAT 2231

(n,n') He-3
Cross Section

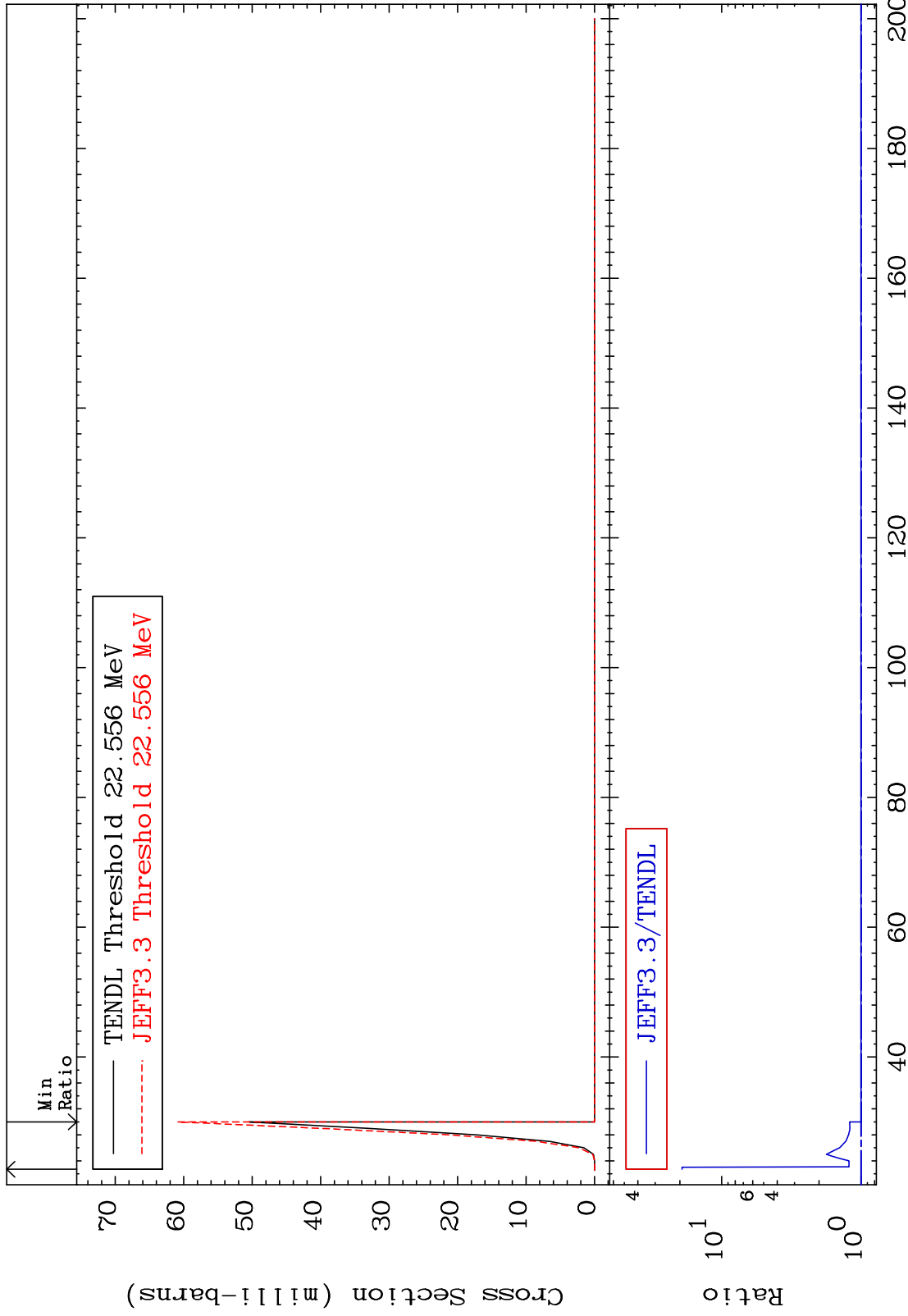
22-Ti-48
-2.461 To 225.2 %



MAT 2231

(n,2n) p
Cross Section

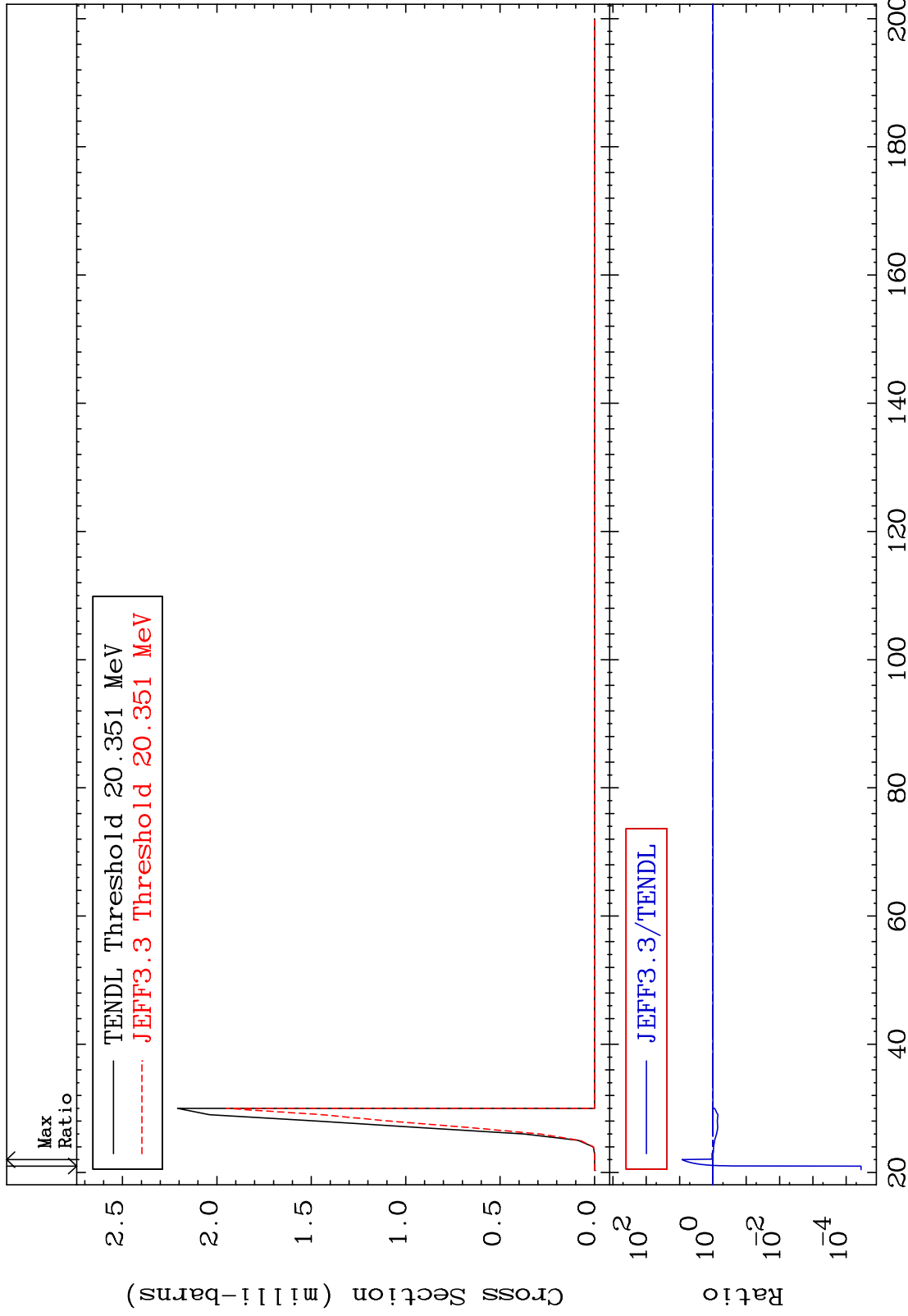
22-Ti-48
0.000 To 1824. %



MAT 2231

(n,2n) p
Cross Section

22-Ti-48
-100.0 To 738.6 %

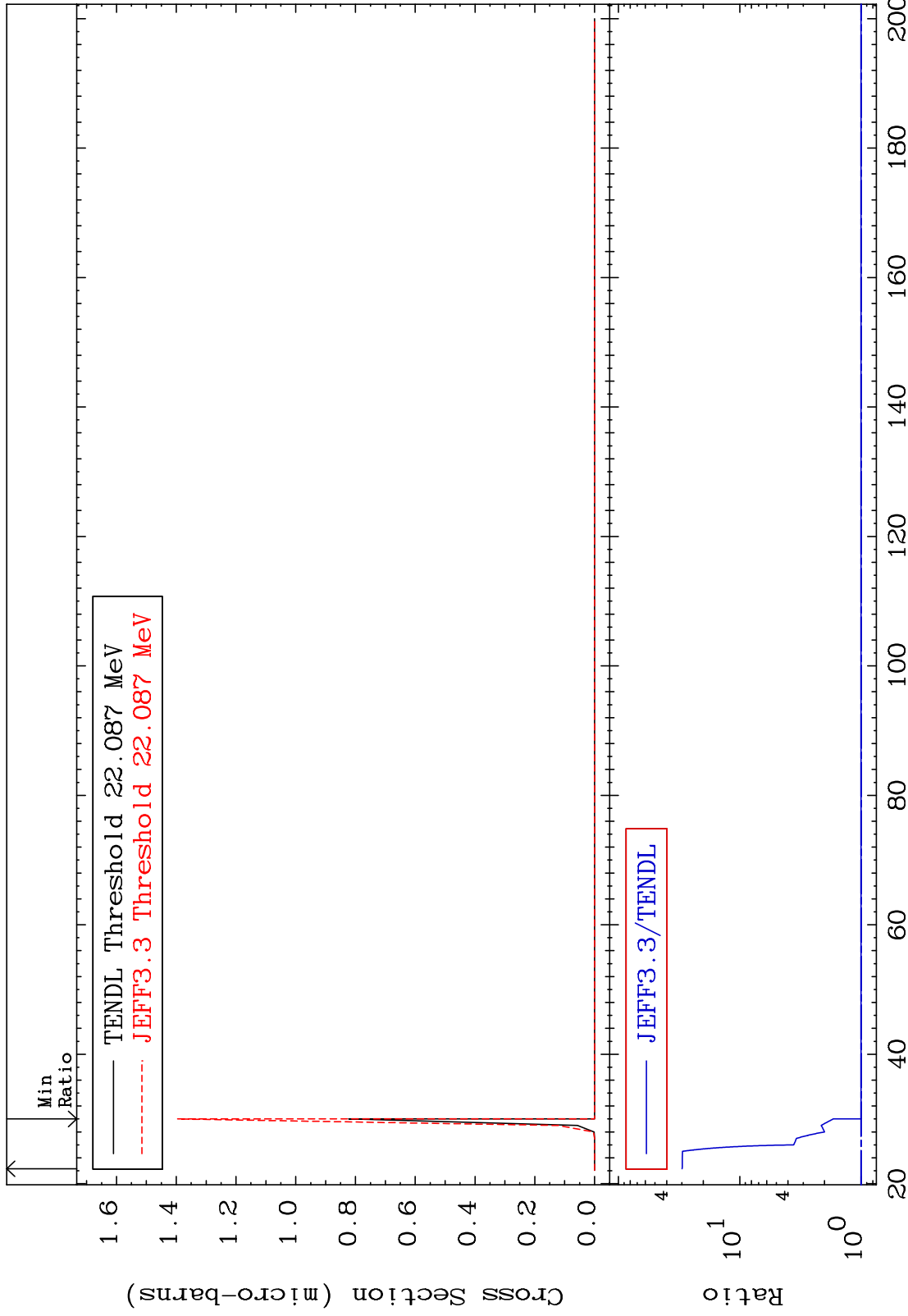


22-Ti-48

MAT 2231

(n,n') p α
Cross Section

22-Ti-48
0.000 To 2886. %

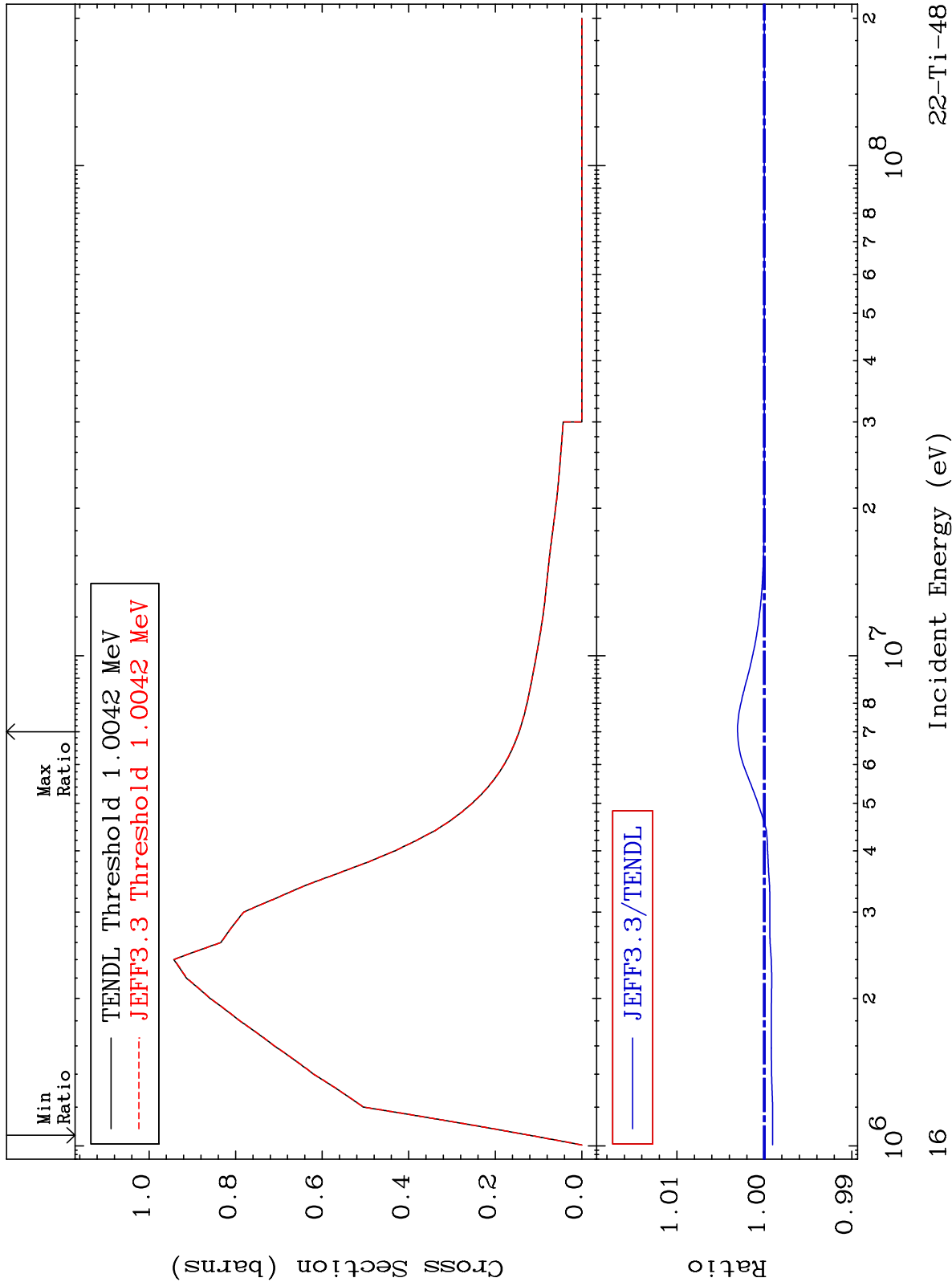


Incident Energy (MeV) 22-Ti-48

MAT 2231

MT= 51 (n,n') Level
Cross Section

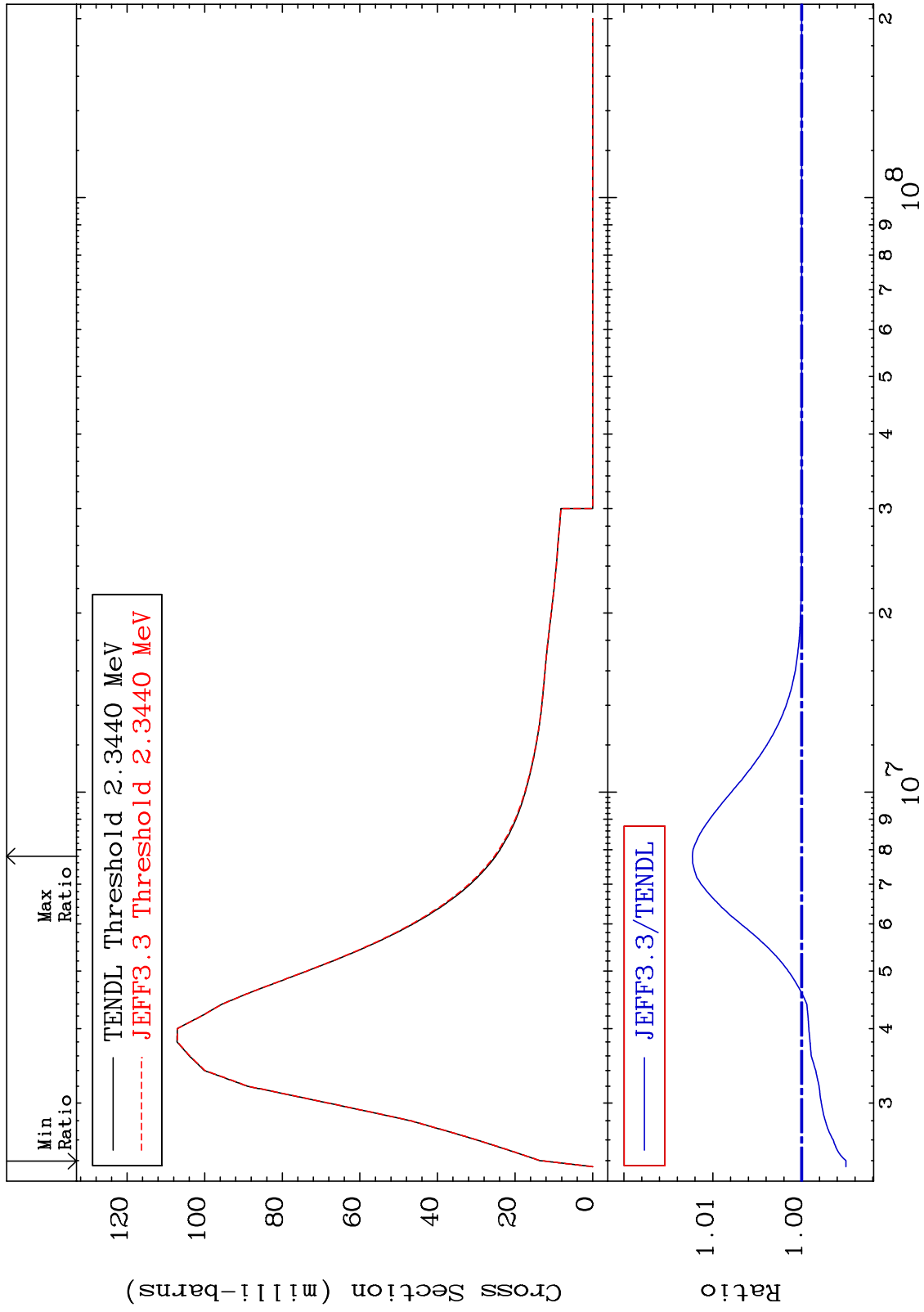
22-Ti-48
-0.095 To 0.307 %



MAT 2231

MT= 52 (n,n') Level
Cross Section

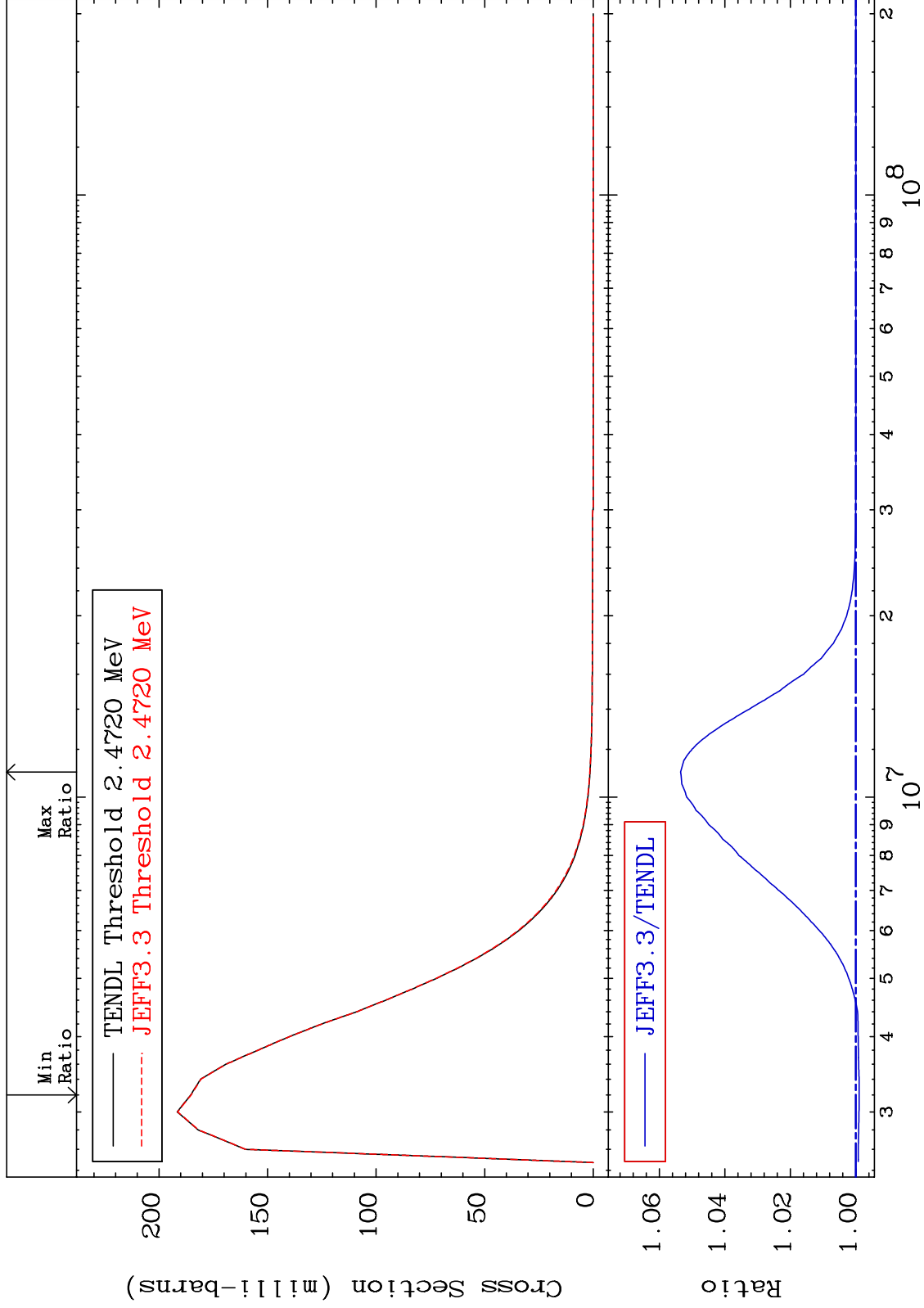
22-Ti-48
-0.498 To 1.229 %



MAT 2231

MT= 53 (n, n') Level
Cross Section

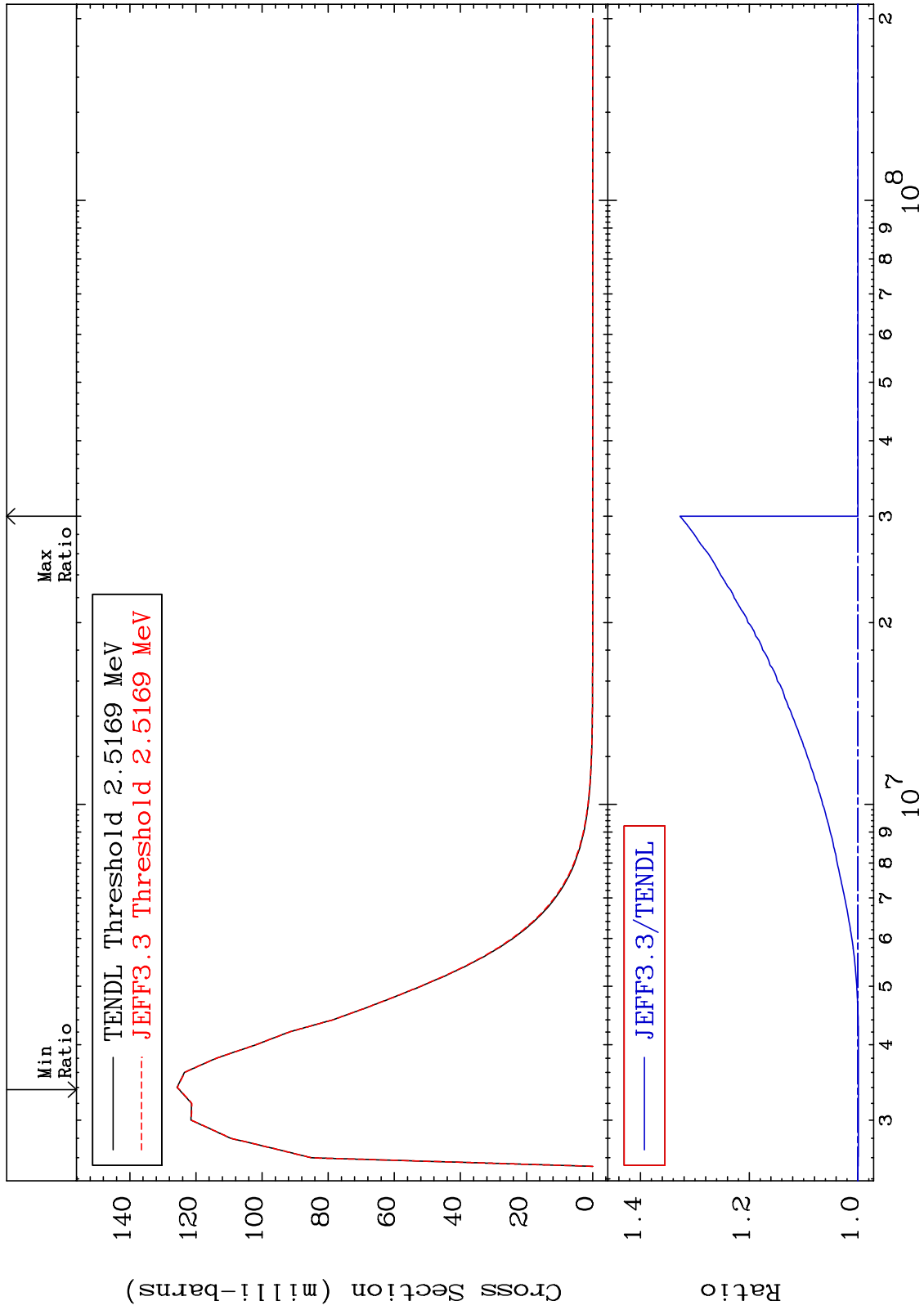
22-Ti-48
-0.102 To 5.352 %



MAT 2231

MT= 54 (n, n') Level
Cross Section

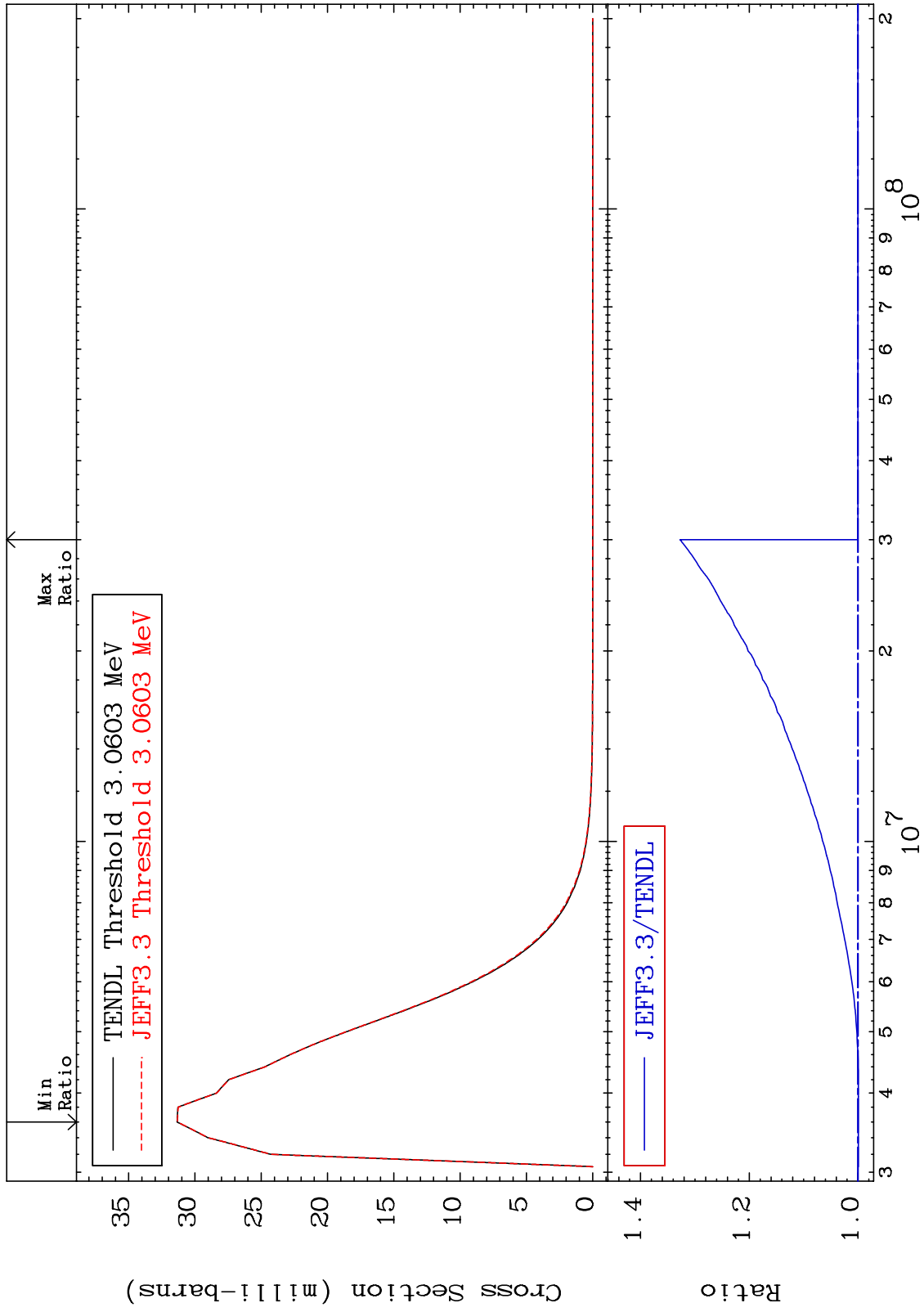
22-Ti-48
-0.085 To 32.74 %



MAT 2231

MT= 55 (n,n') Level
Cross Section

22-Ti-48
-0.077 To 32.74 %



20

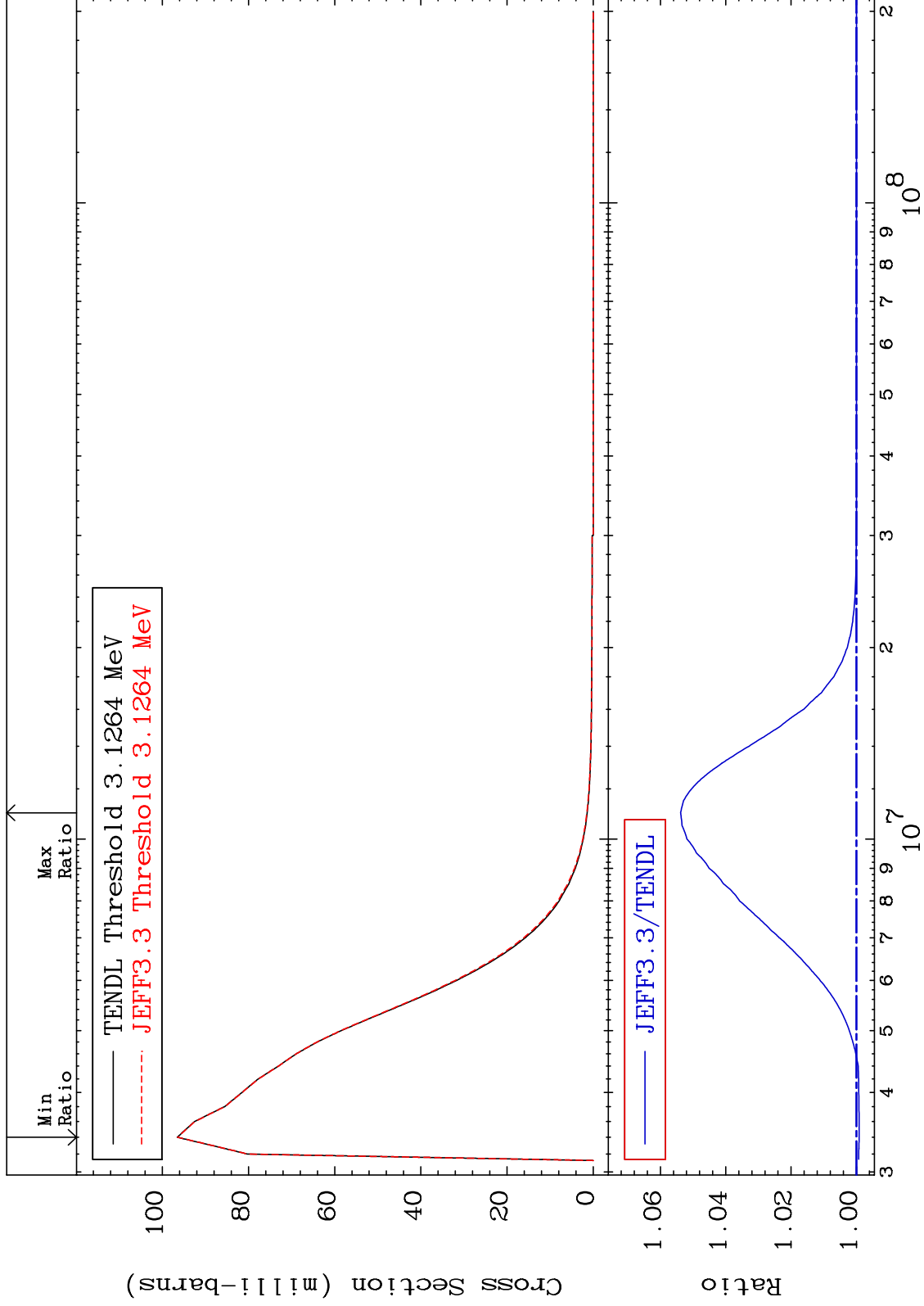
Incident Energy (eV)

22-Ti-48

MAT 2231

MT= 56 (n,n') Level
Cross Section

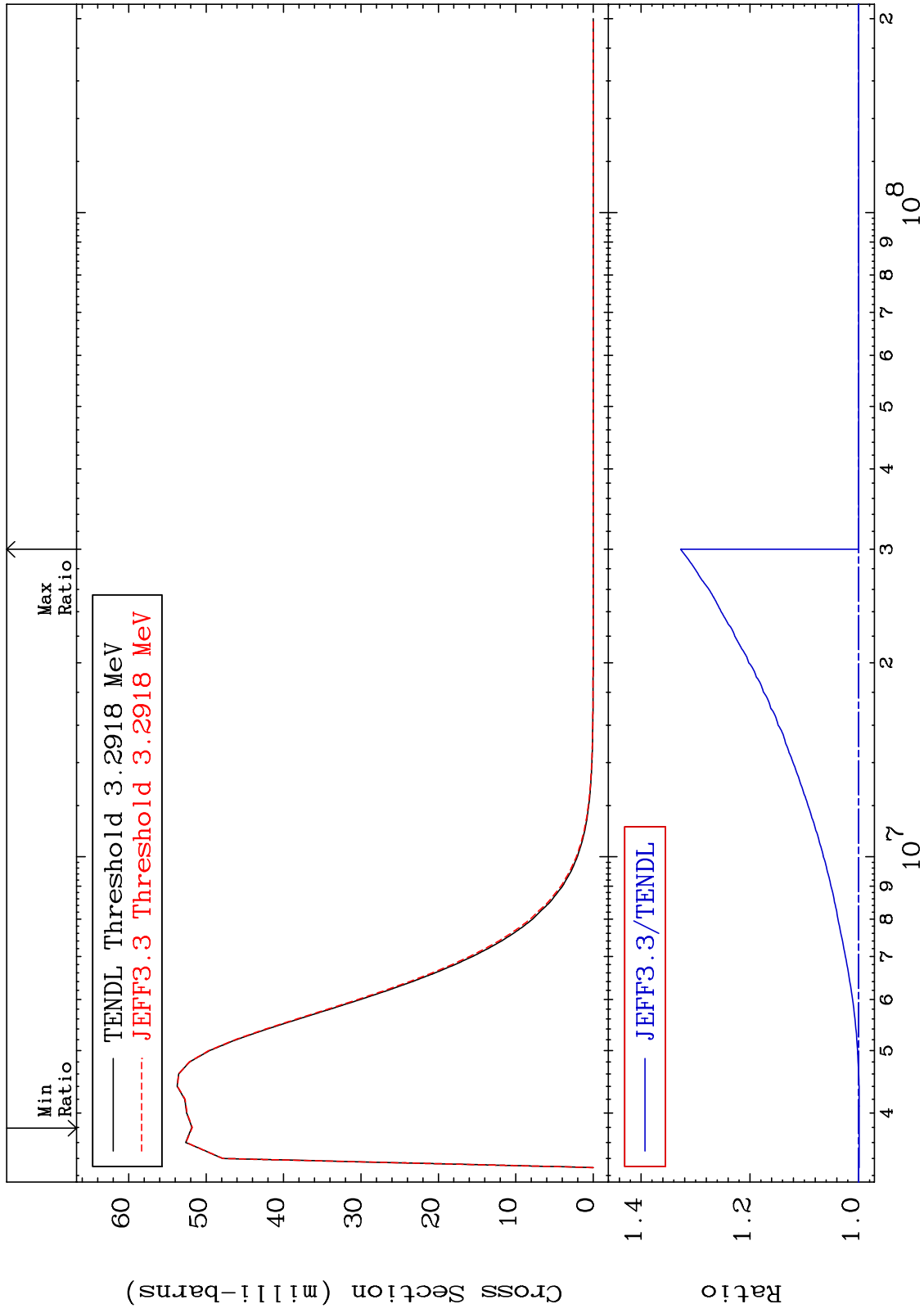
22-Ti-48
-0.085 To 5.382 %



MAT 2231

MT= 57 (n,n') Level
Cross Section

22-Ti-48
-0.090 To 32.74 %



22

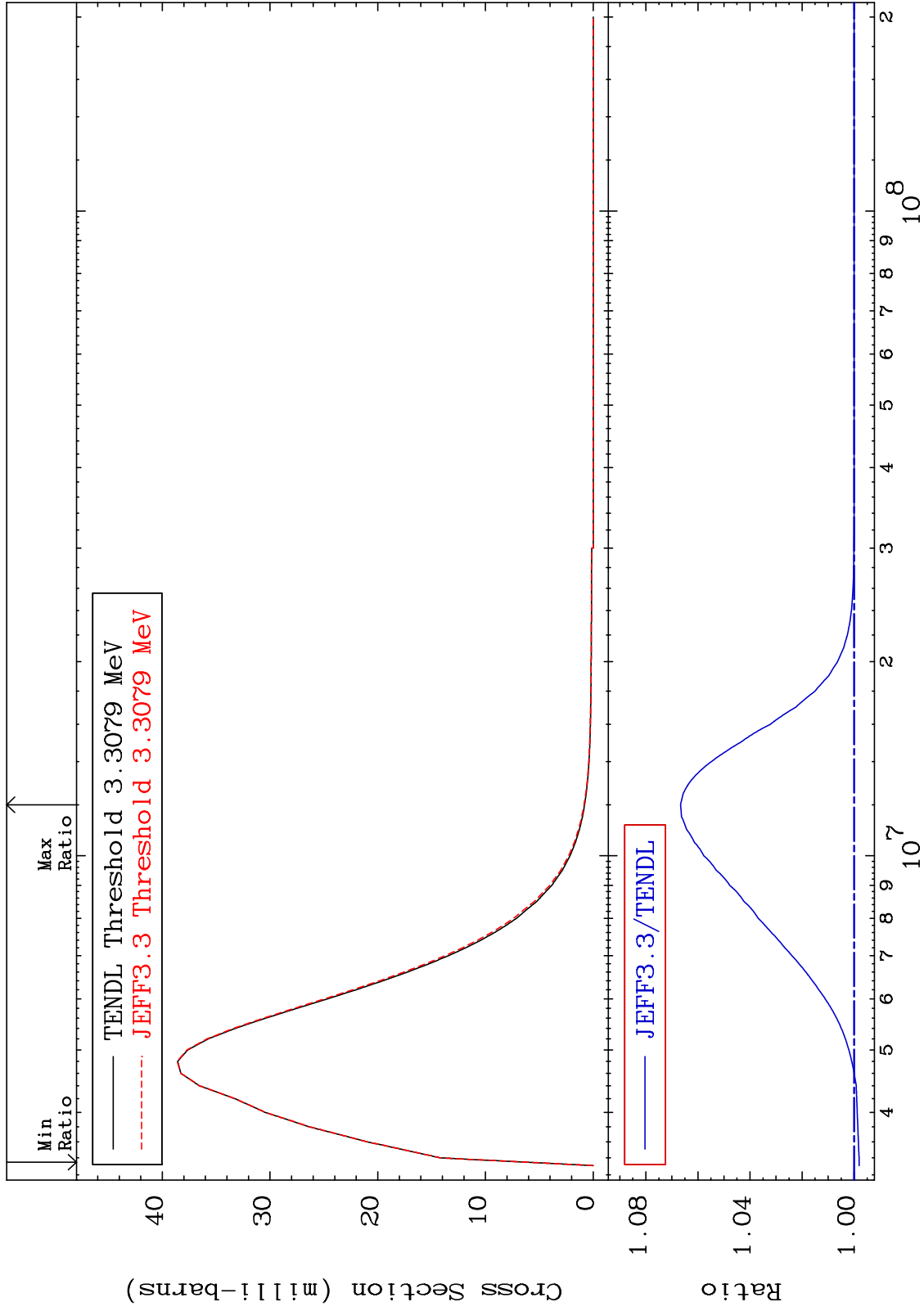
Incident Energy (eV)

22-Ti-48

MAT 2231

MT= 58 (n,n') Level
Cross Section

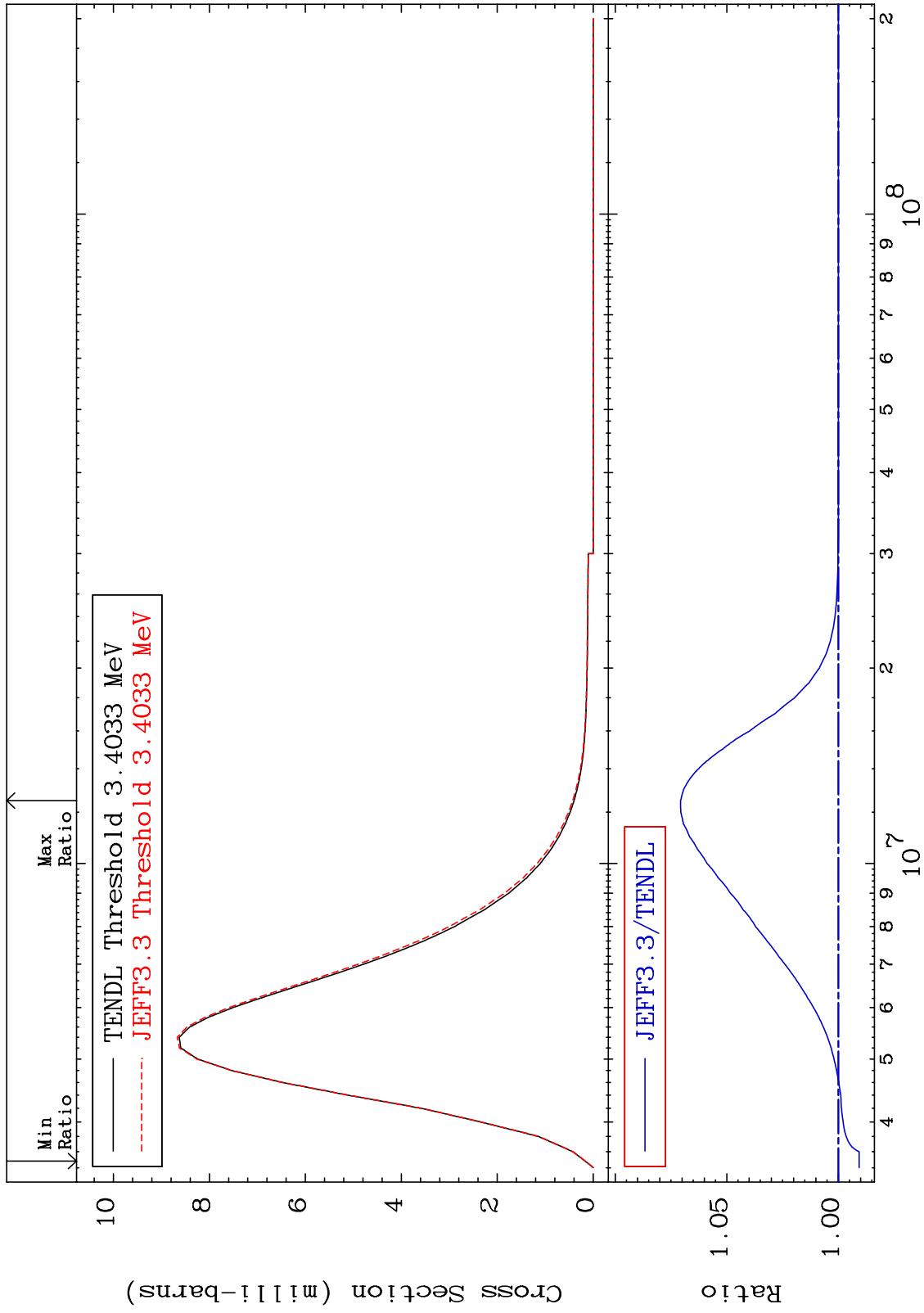
22-Ti-48
-0.193 To 6.664 %



MAT 2231

MT= 59 (n,n') Level
Cross Section

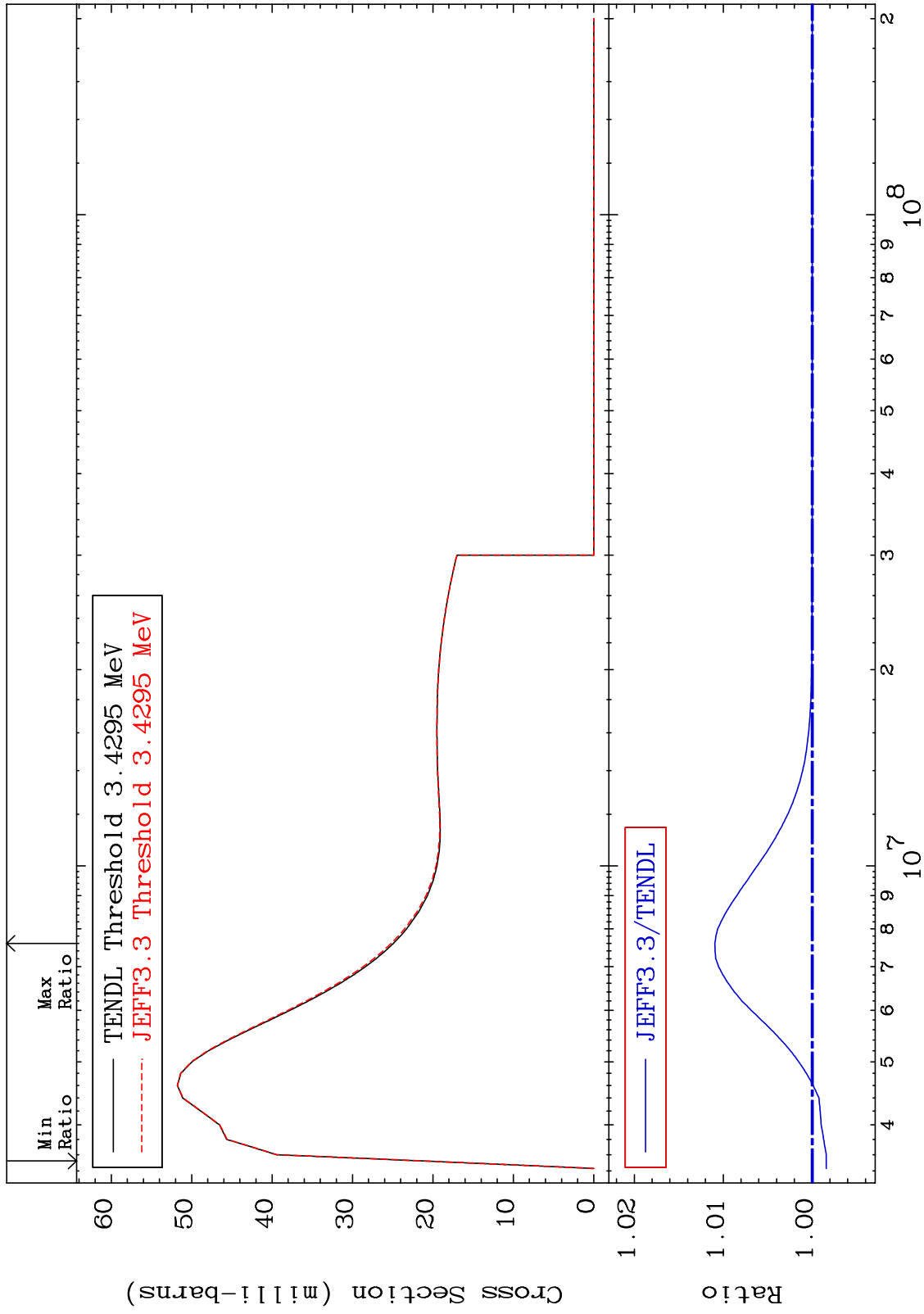
22-Ti-48
-0.936 To 7.067 %



MAT 2231

MT= 60 (n,n') Level
Cross Section

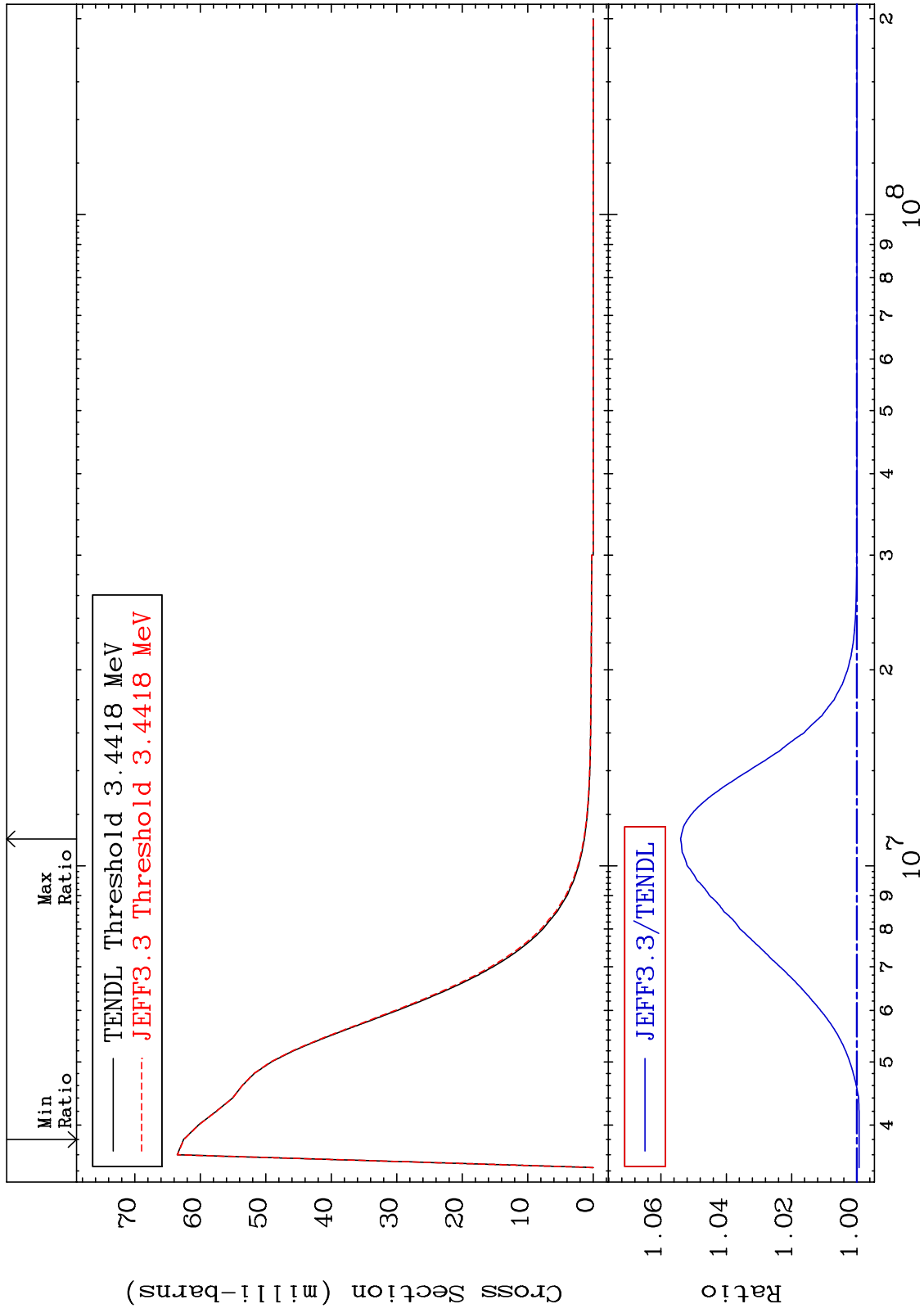
22-Ti-48
-0.159 To 1.095 %



MAT 2231

MT= 61 (n,n') Level
Cross Section

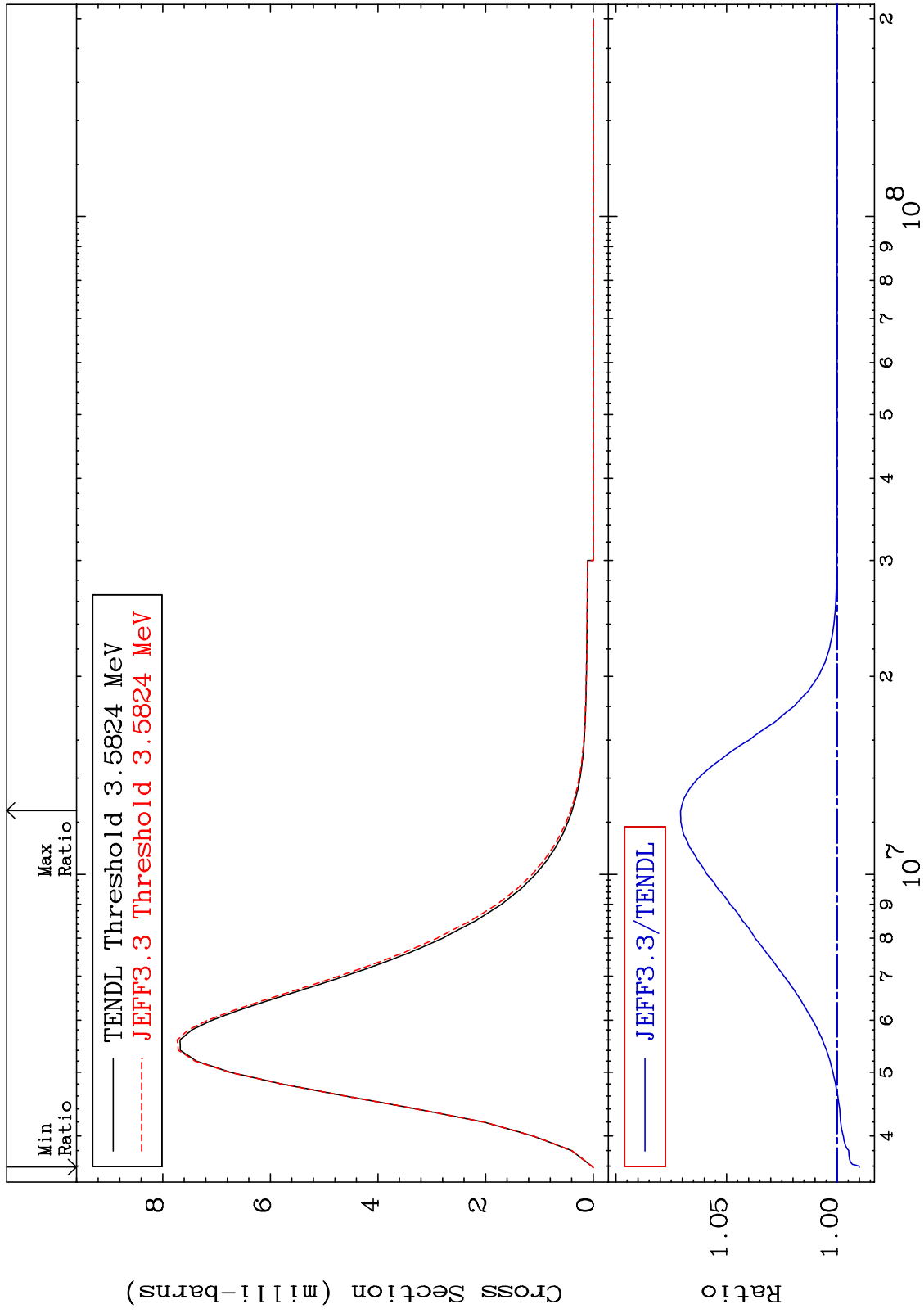
22-Ti-48
-0.071 To 5.399 %



MAT 2231

MT= 62 (n,n') Level
Cross Section

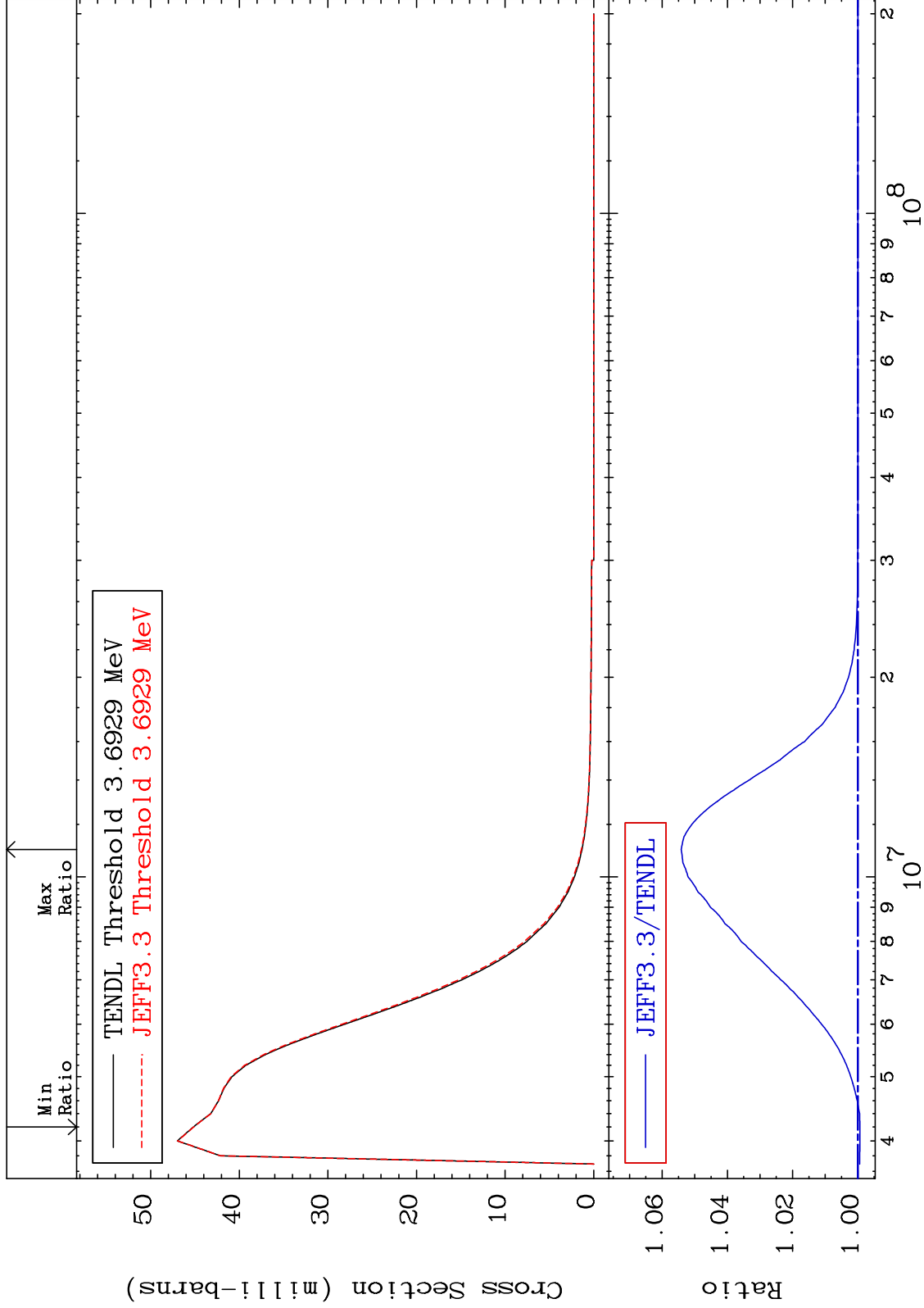
22-Ti-48
-0.996 To 7.076 %



MAT 2231

MT= 63 (n,n') Level
Cross Section

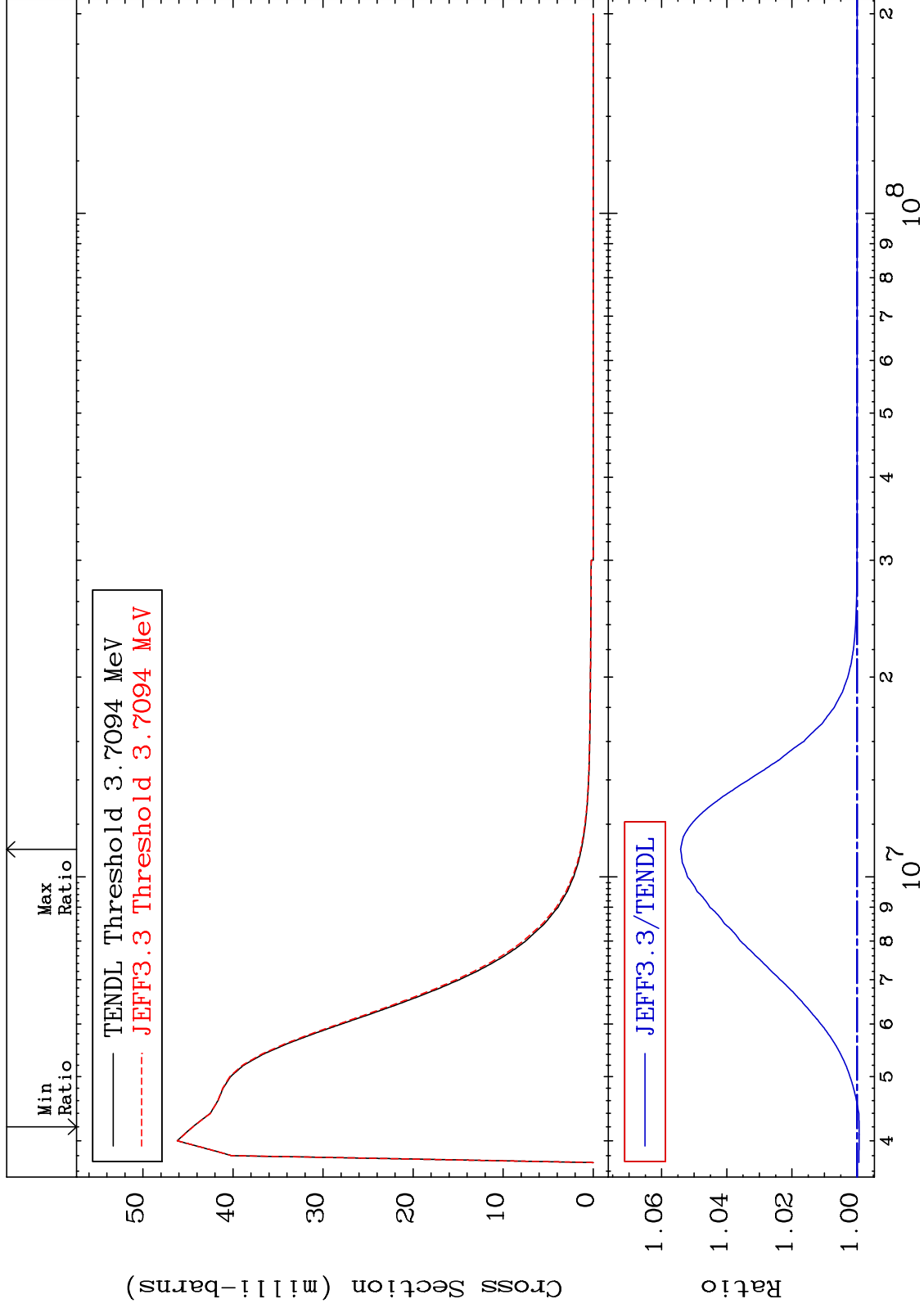
22-Ti-48
-0.064 To 5.415 %



MAT 2231

MT= 64 (n,n') Level
Cross Section

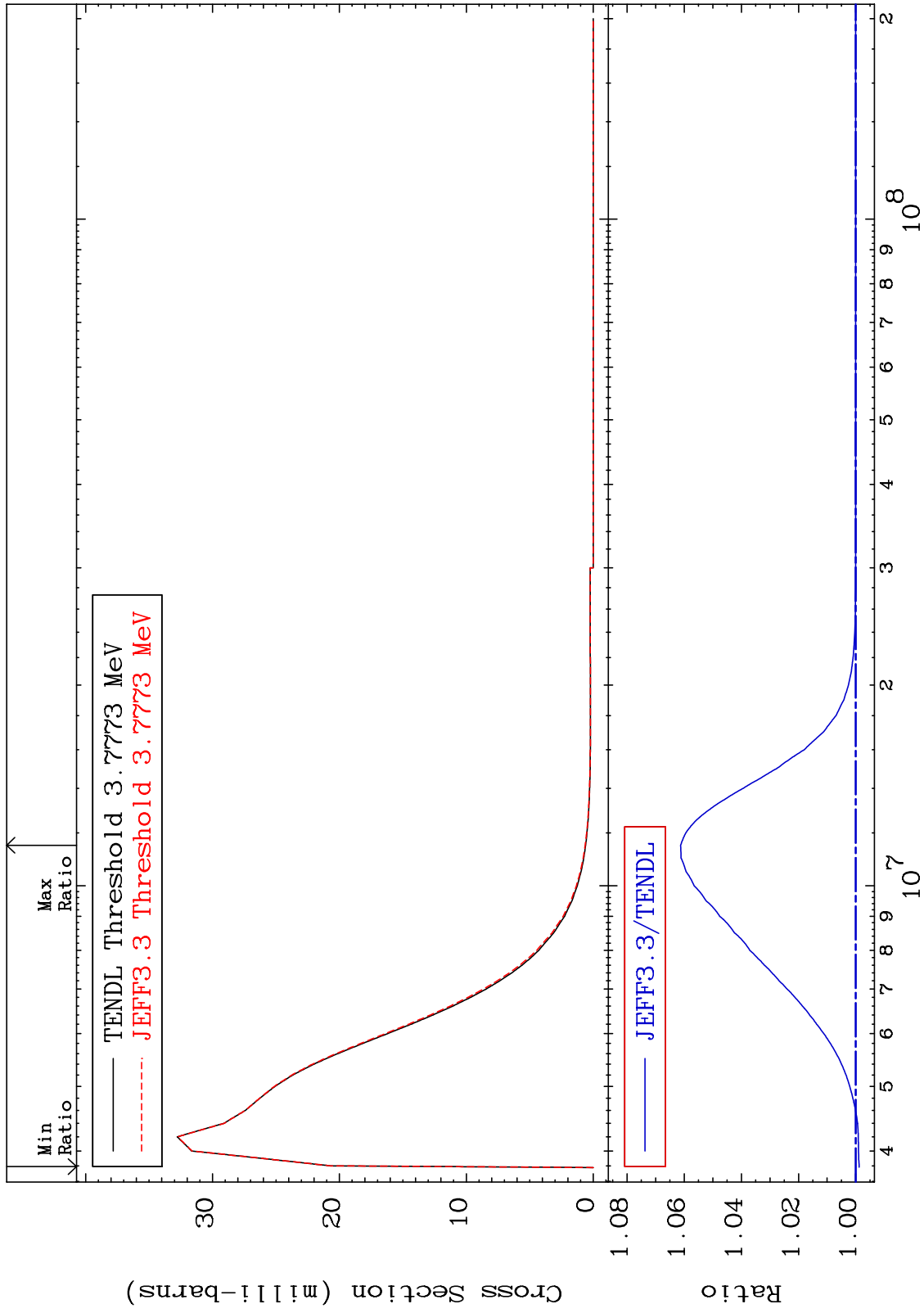
22-Ti-48
-0.064 To 5.416 %



MAT 2231

MT= 65 (n,n') Level
Cross Section

22-Ti-48
-0.121 To 6.125 %



30

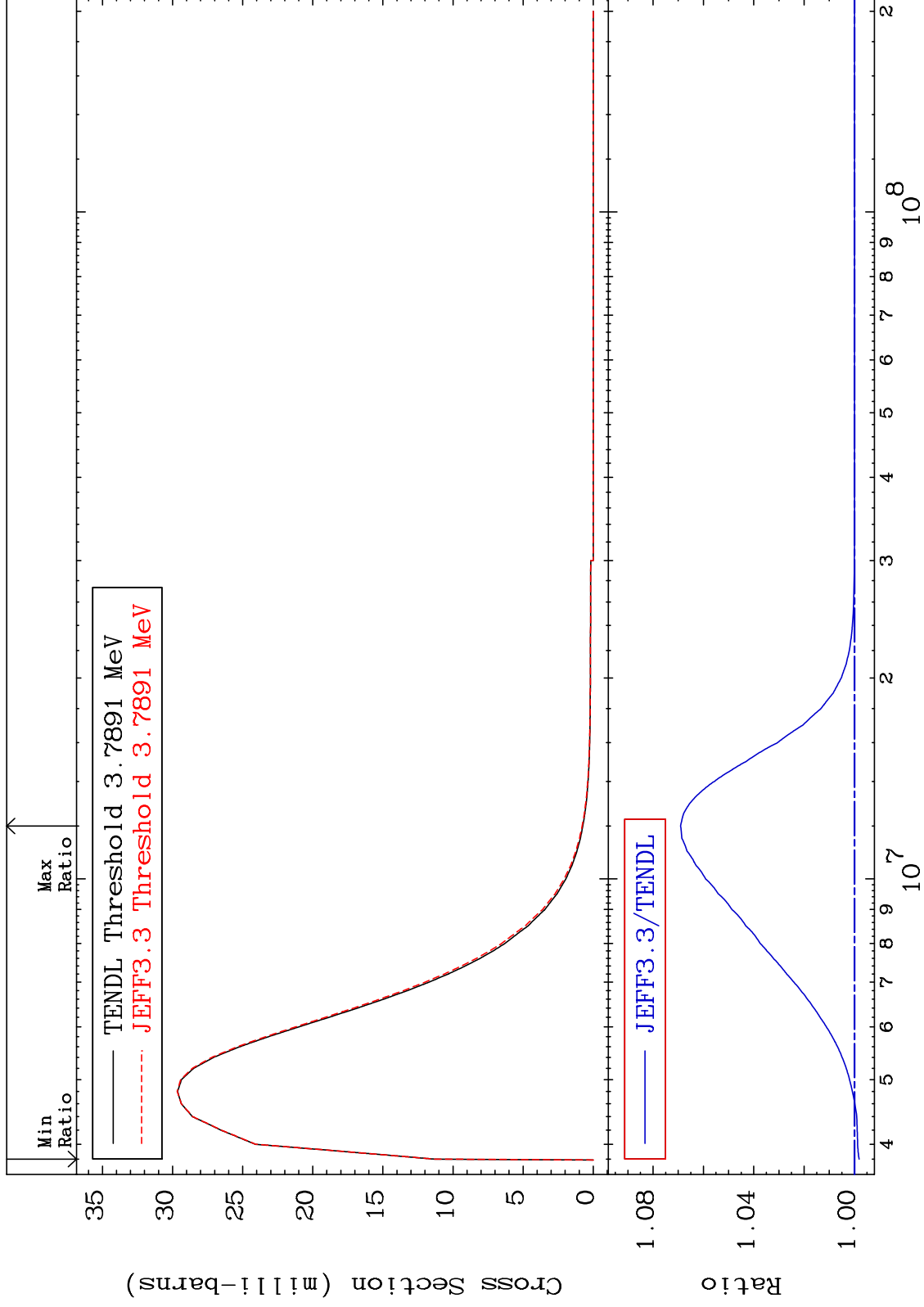
Incident Energy (eV)

22-Ti-48

MAT 2231

MT= 66 (n,n') Level
Cross Section

22-Ti-48
-0.187 To 6.906 %



31

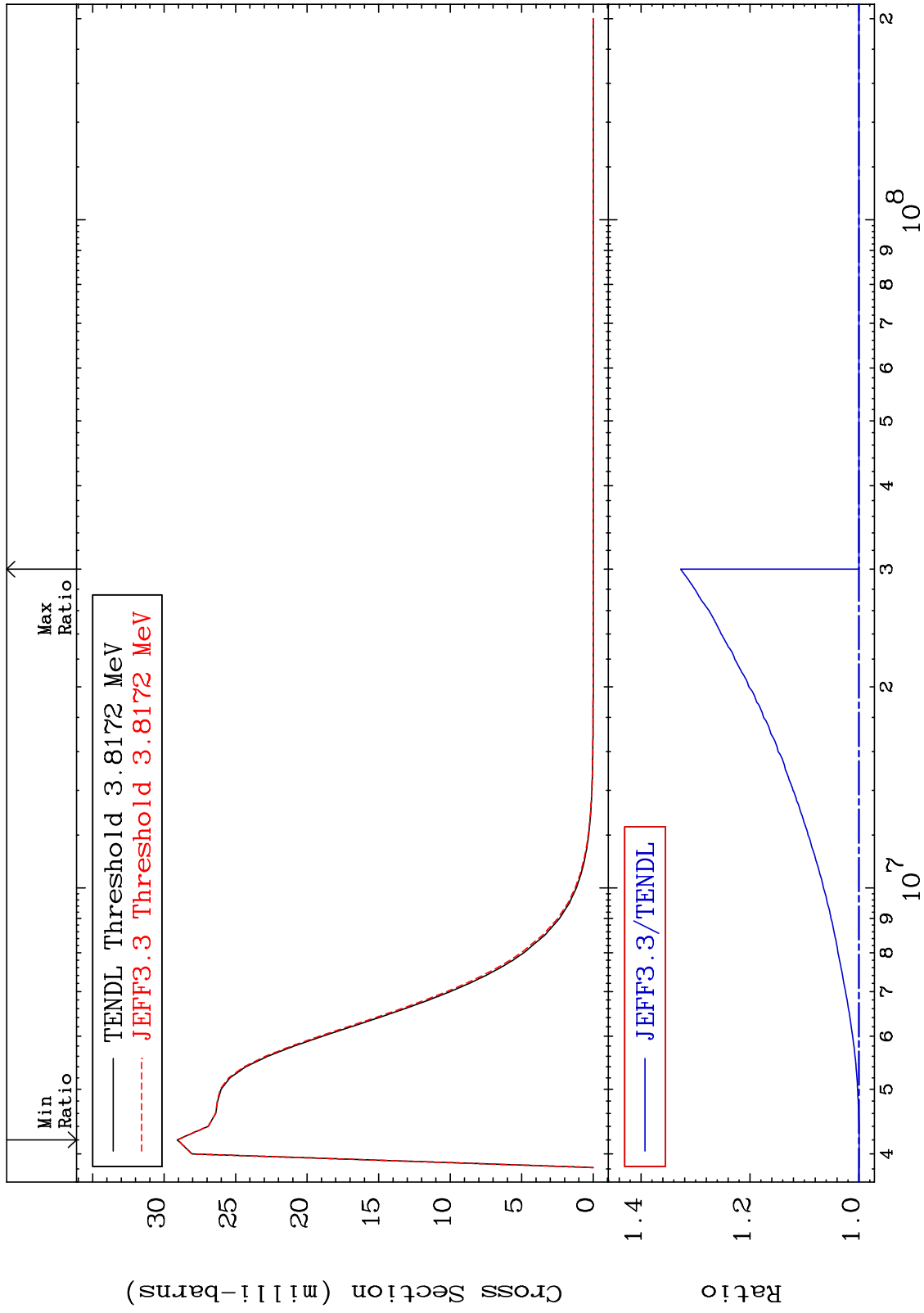
Incident Energy (eV)

22-Ti-48

MAT 2231

MT= 67 (n,n') Level
Cross Section

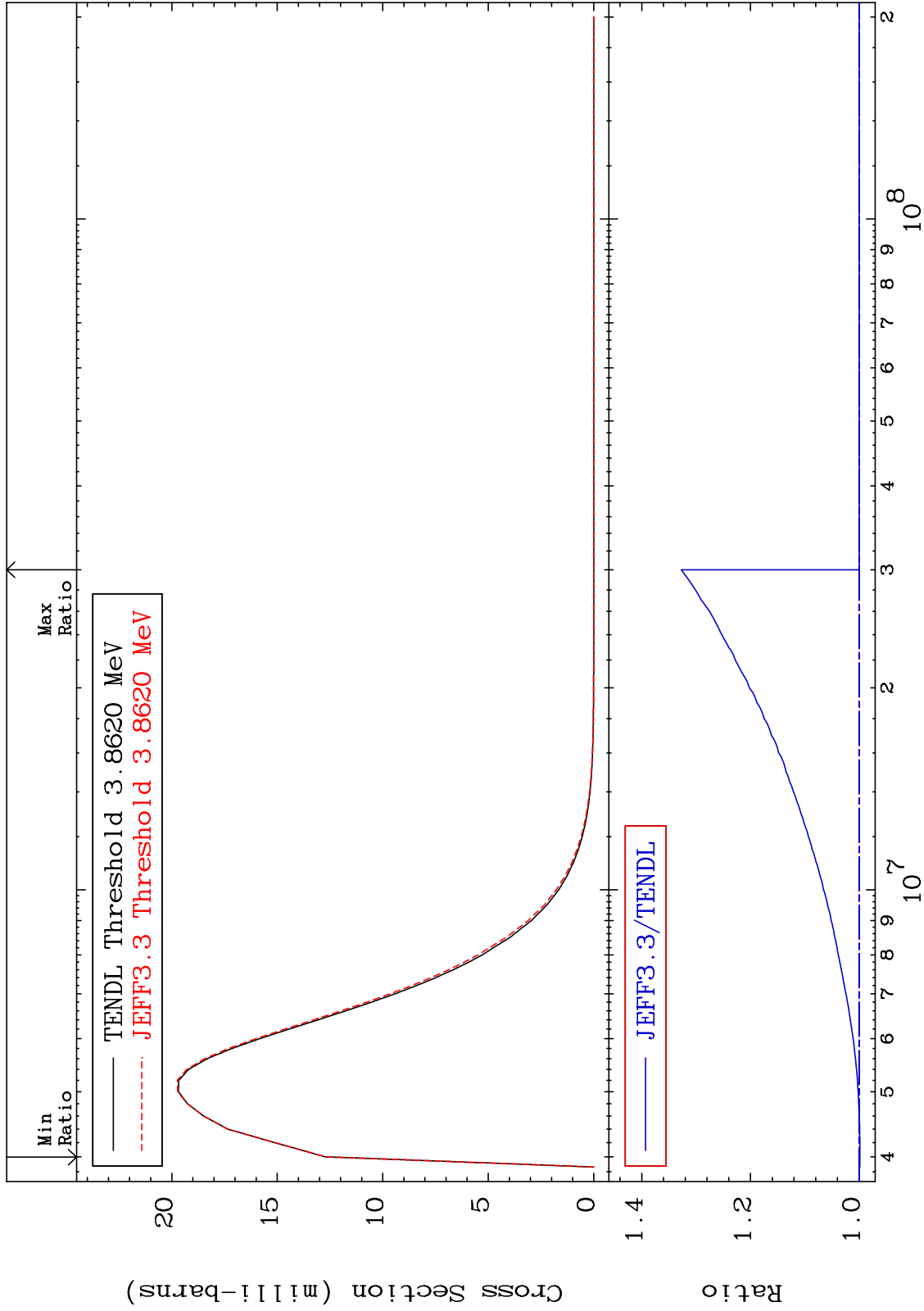
22-Ti-48
-0.059 To 32.74 %



MAT 2231

MT= 68 (n,n') Level
Cross Section

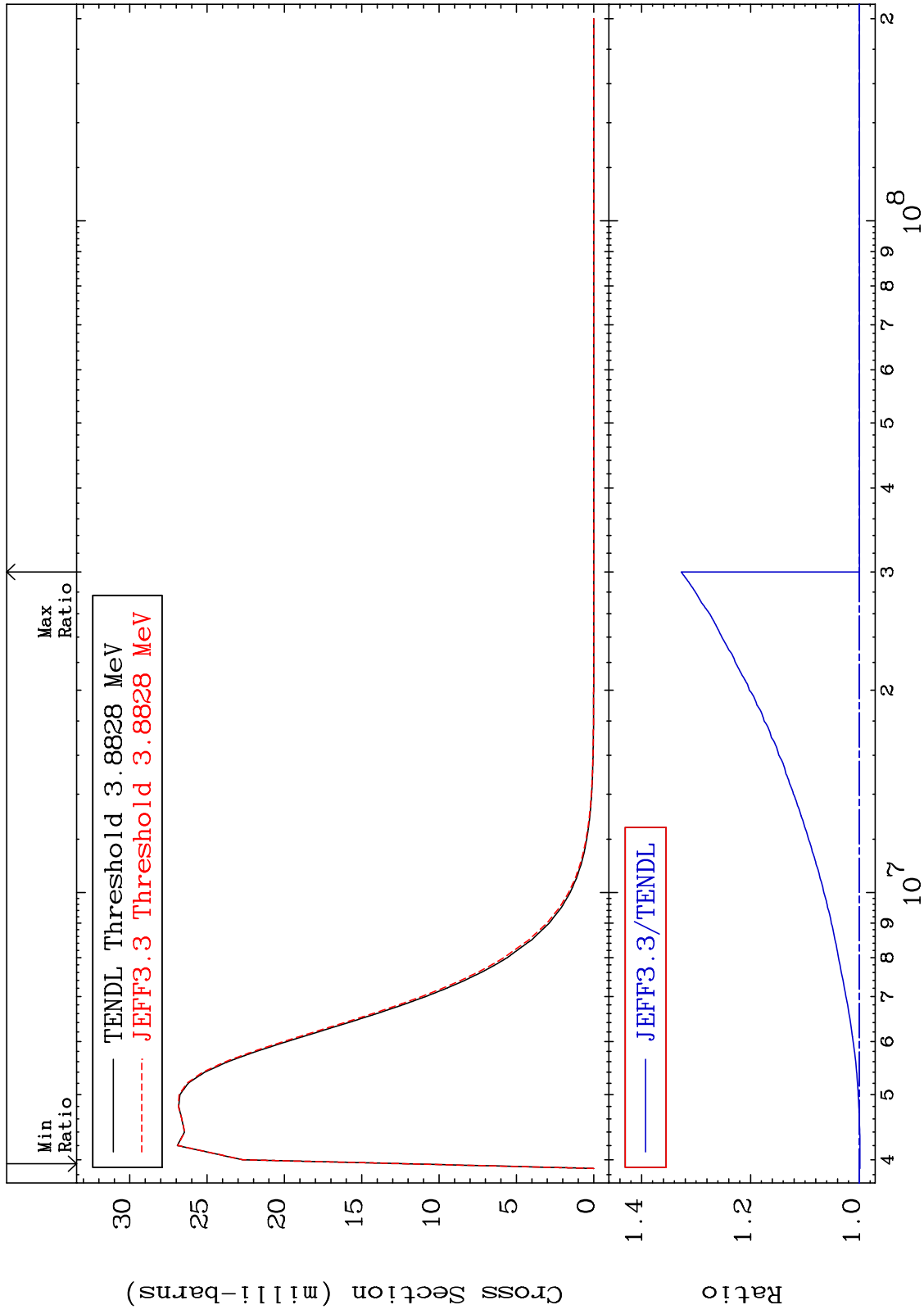
22-Ti-48
-0.147 To 32.74 %



MAT 2231

MT= 69 (n,n') Level
Cross Section

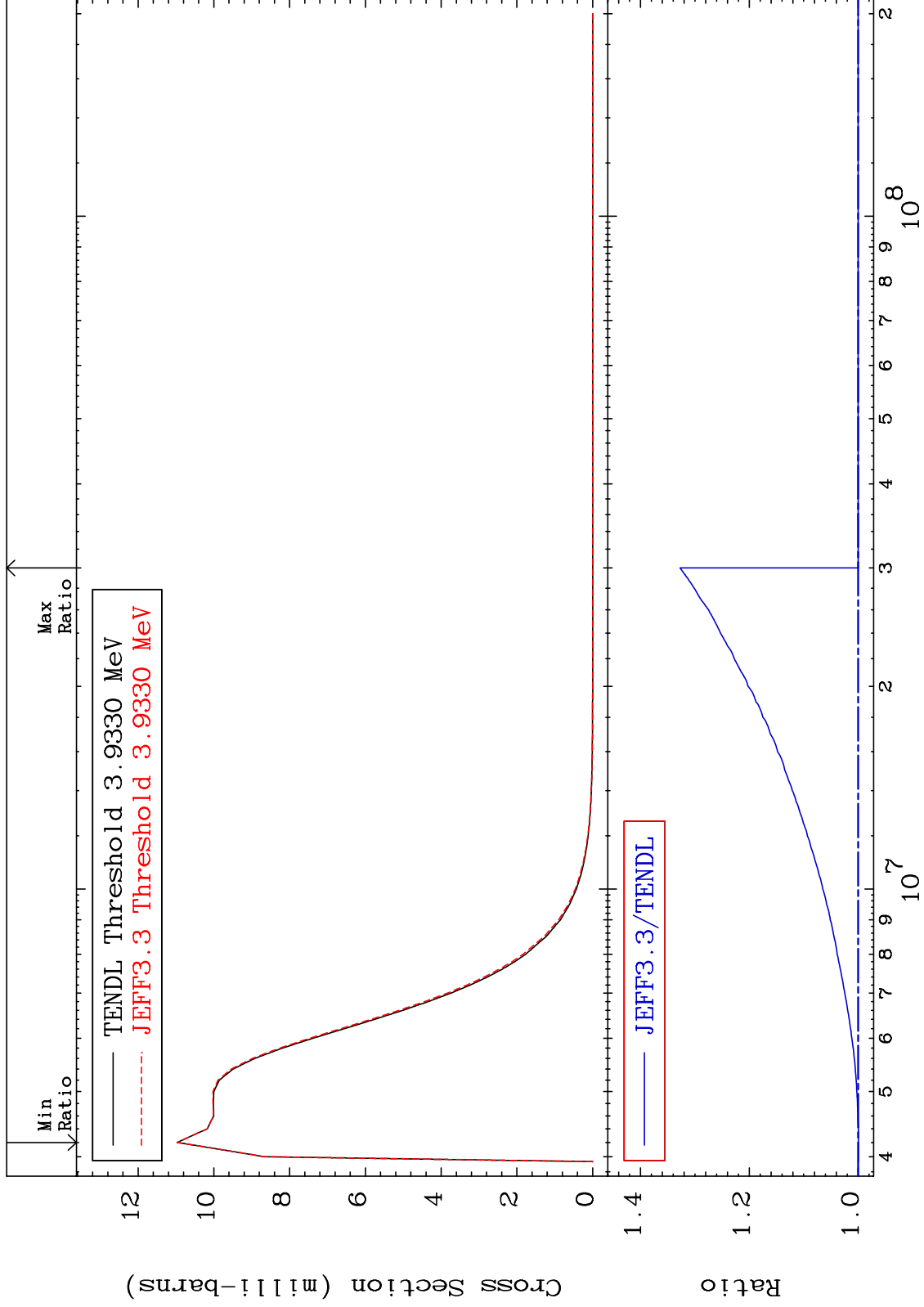
22-Ti-48
-0.108 To 32.74 %



MAT 2231

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

22-Ti-48
-0.055 To 32.74 %



35

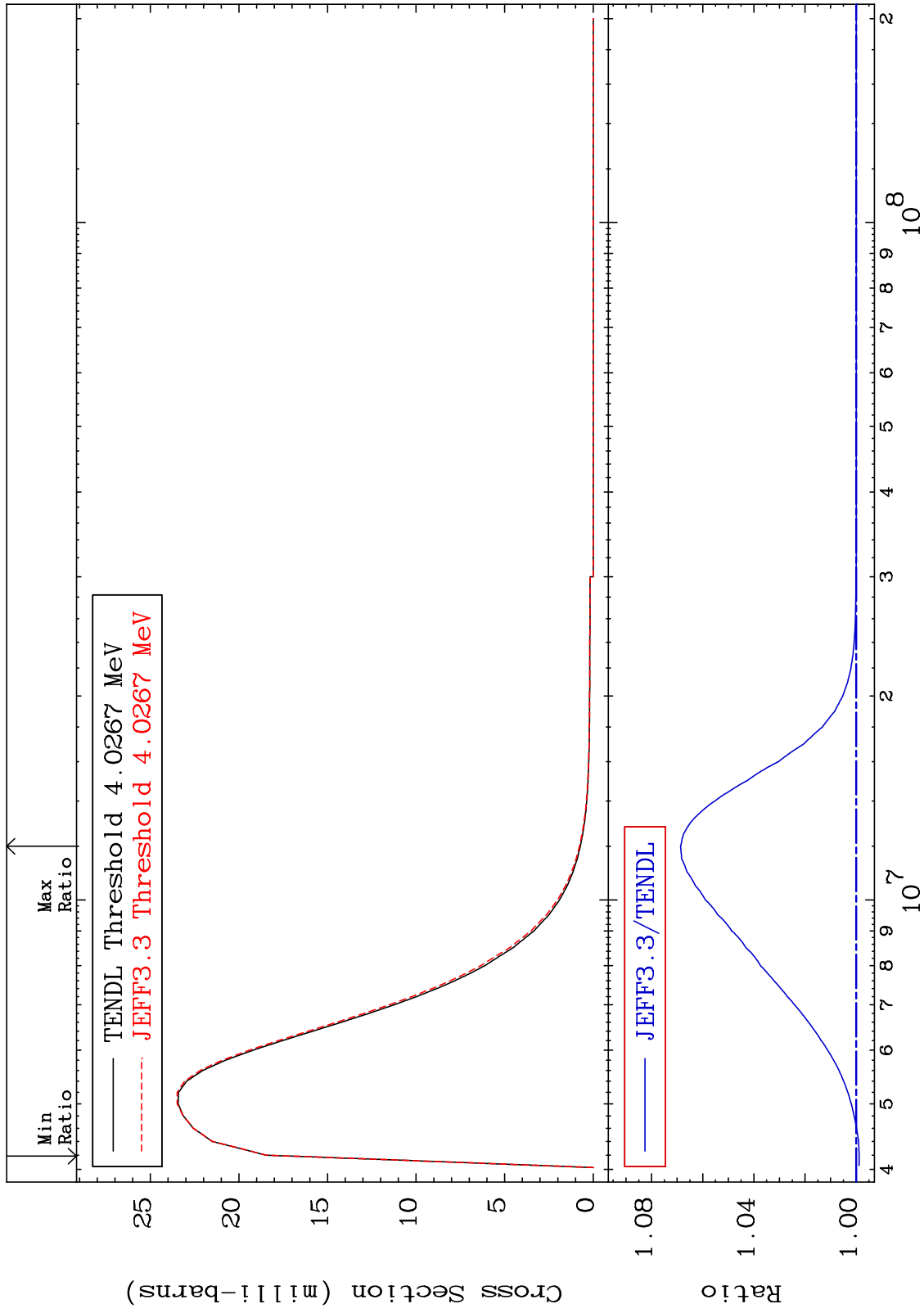
Incident Energy (eV)

22-Ti-48

MAT 2231

MT= 71 (n,n') Level
Cross Section

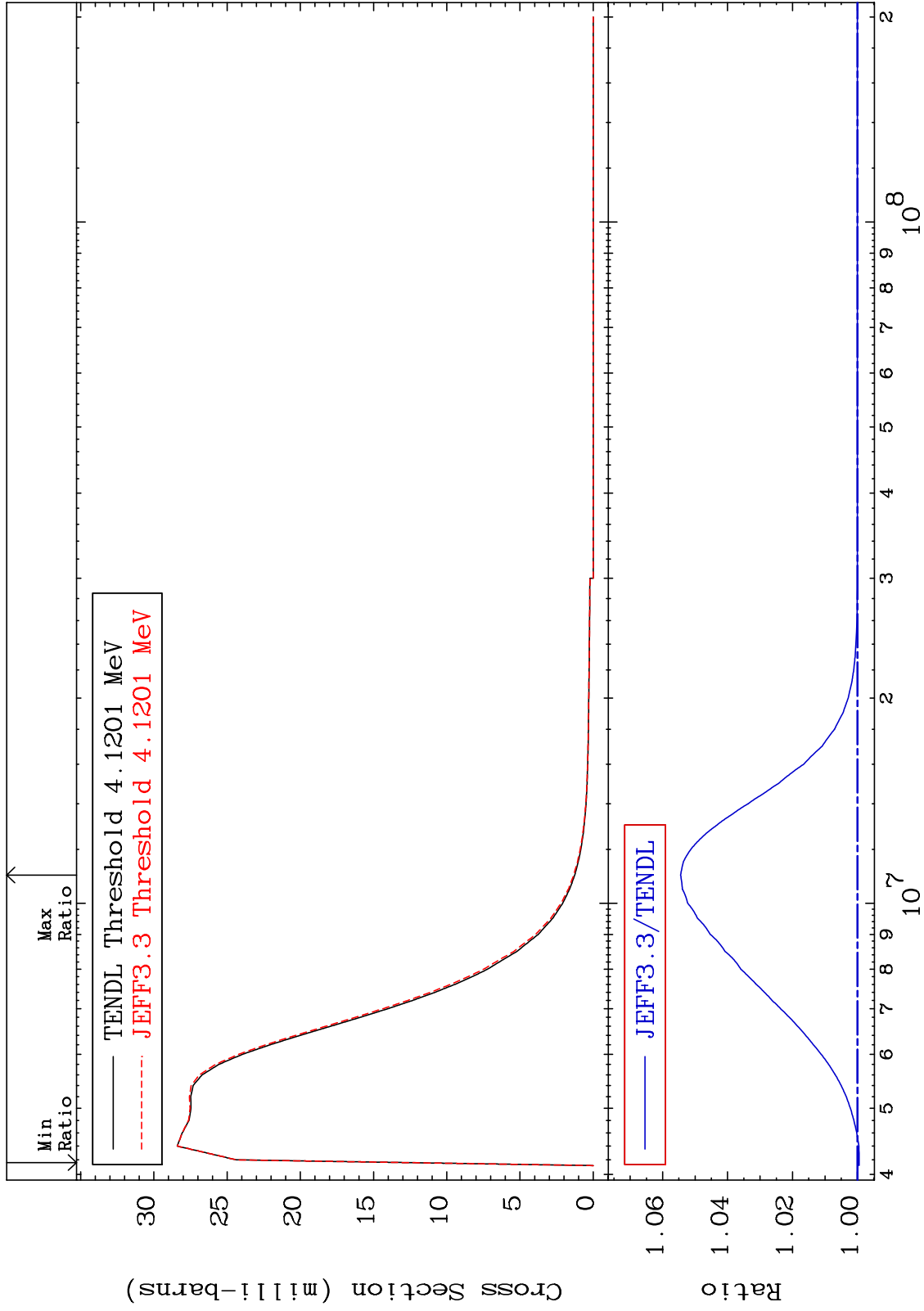
22-Ti-48
-0.116 To 6.864 %



MAT 2231

MT= 72 (n,n') Level
Cross Section

22-Ti-48
-0.053 To 5.446 %



37

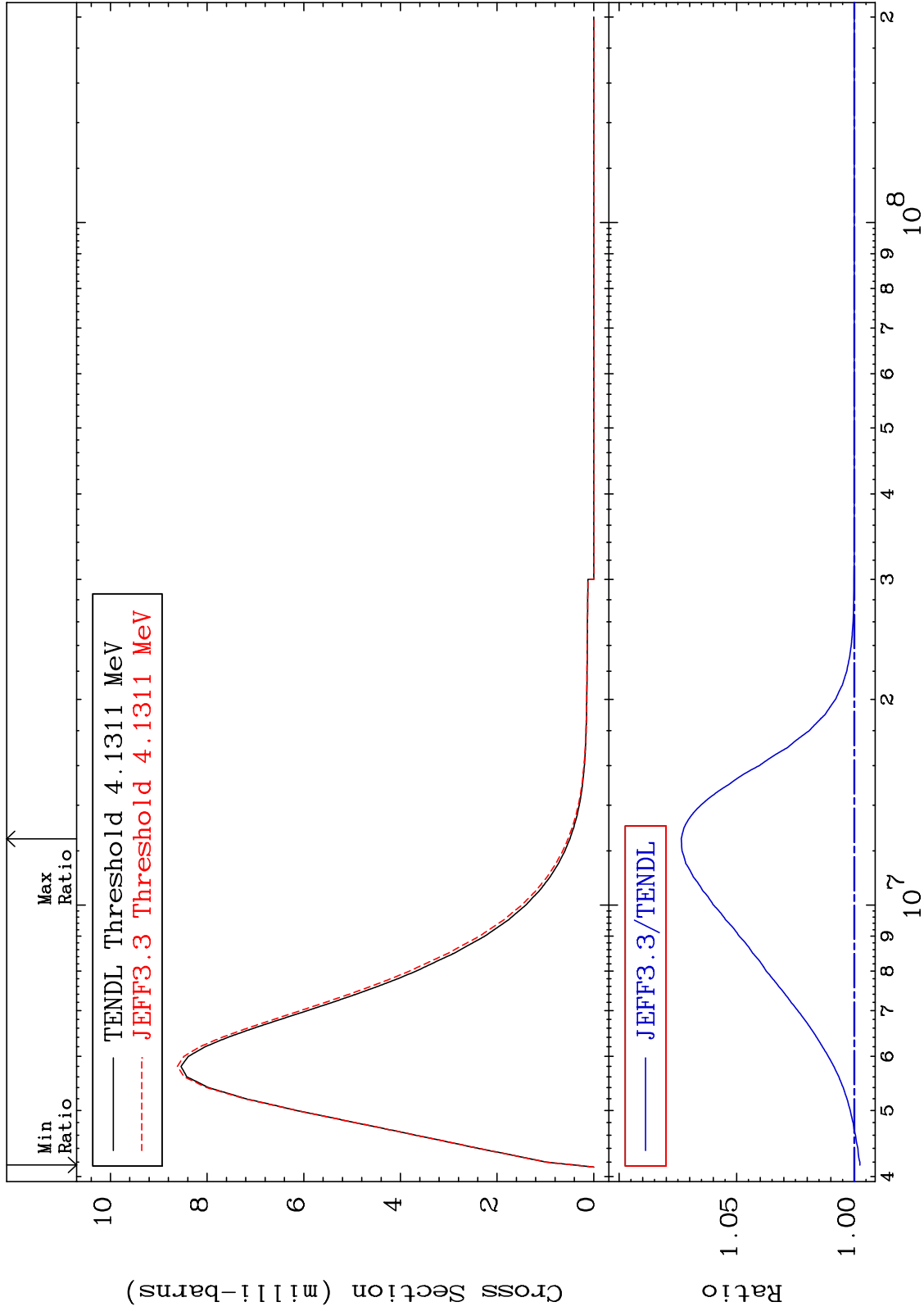
Incident Energy (eV)

22-Ti-48

MAT 2231

MT= 73 (n,n') Level
Cross Section

22-Ti-48
-0.239 To 7.361 %



38

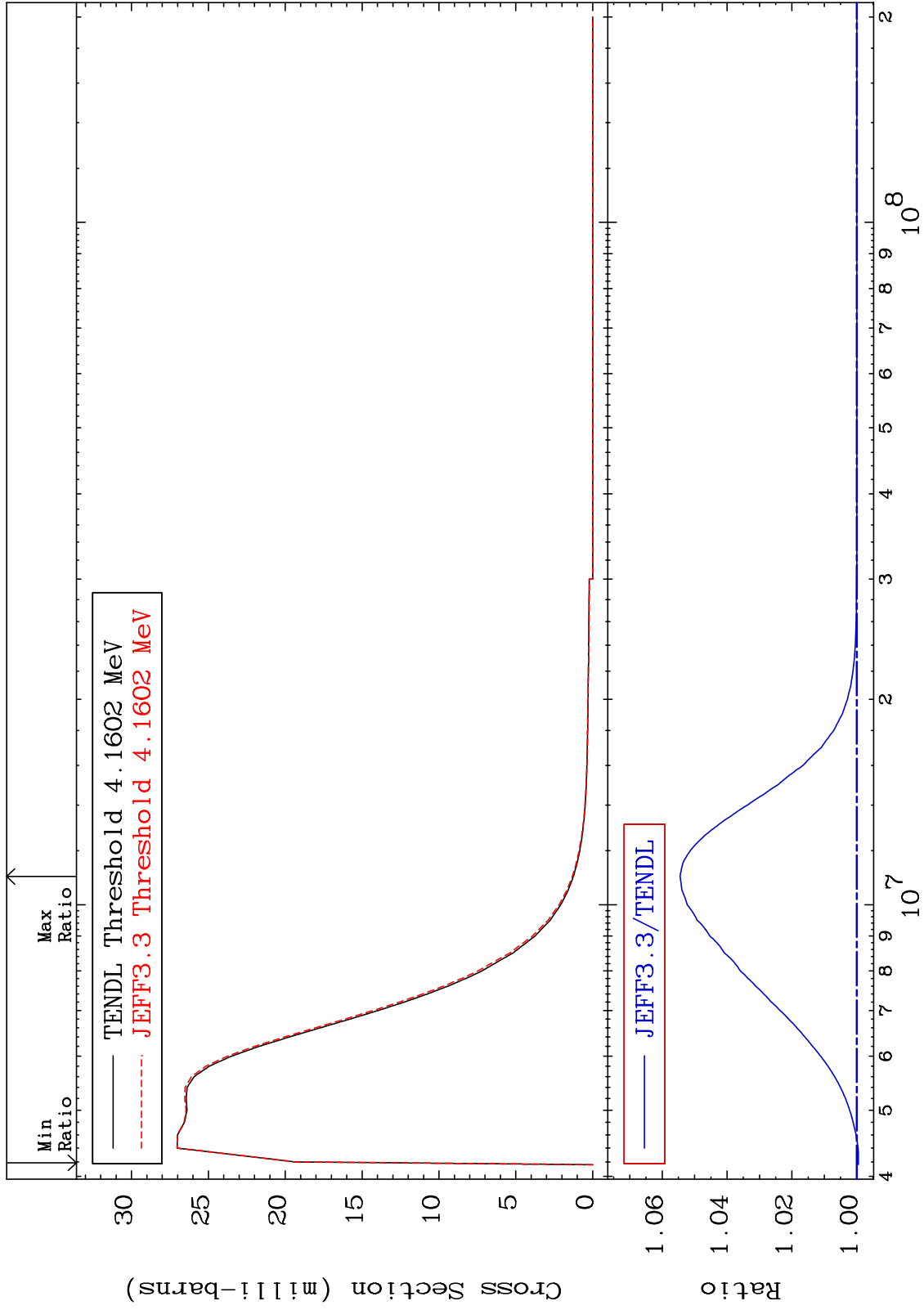
Incident Energy (eV)

22-Ti-48

MAT 2231

MT= 74 (n,n') Level
Cross Section

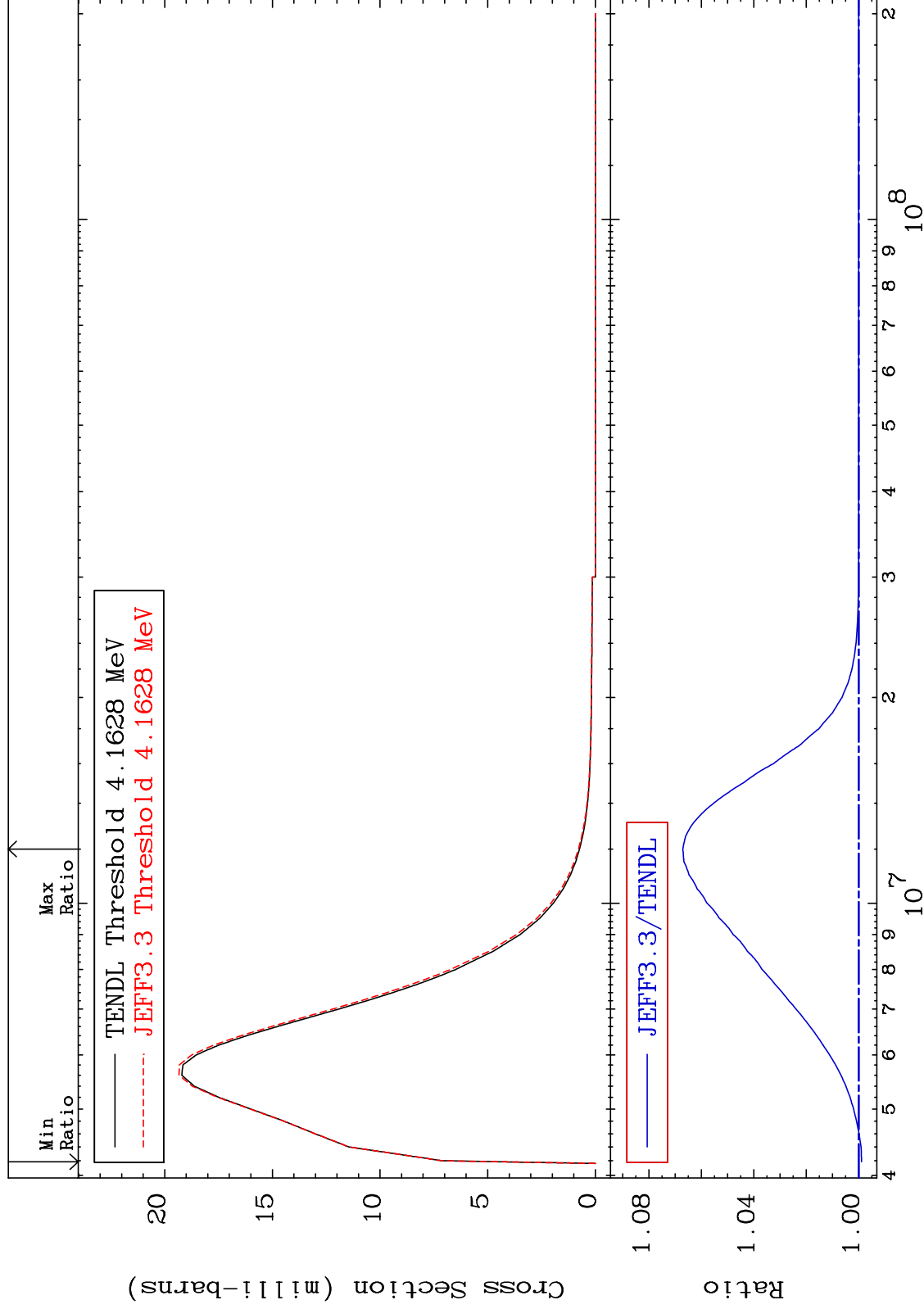
22-Ti-48
-0.052 To 5.450 %



MAT 2231

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

22-Ti-48
-0.107 To 6.708 %



40

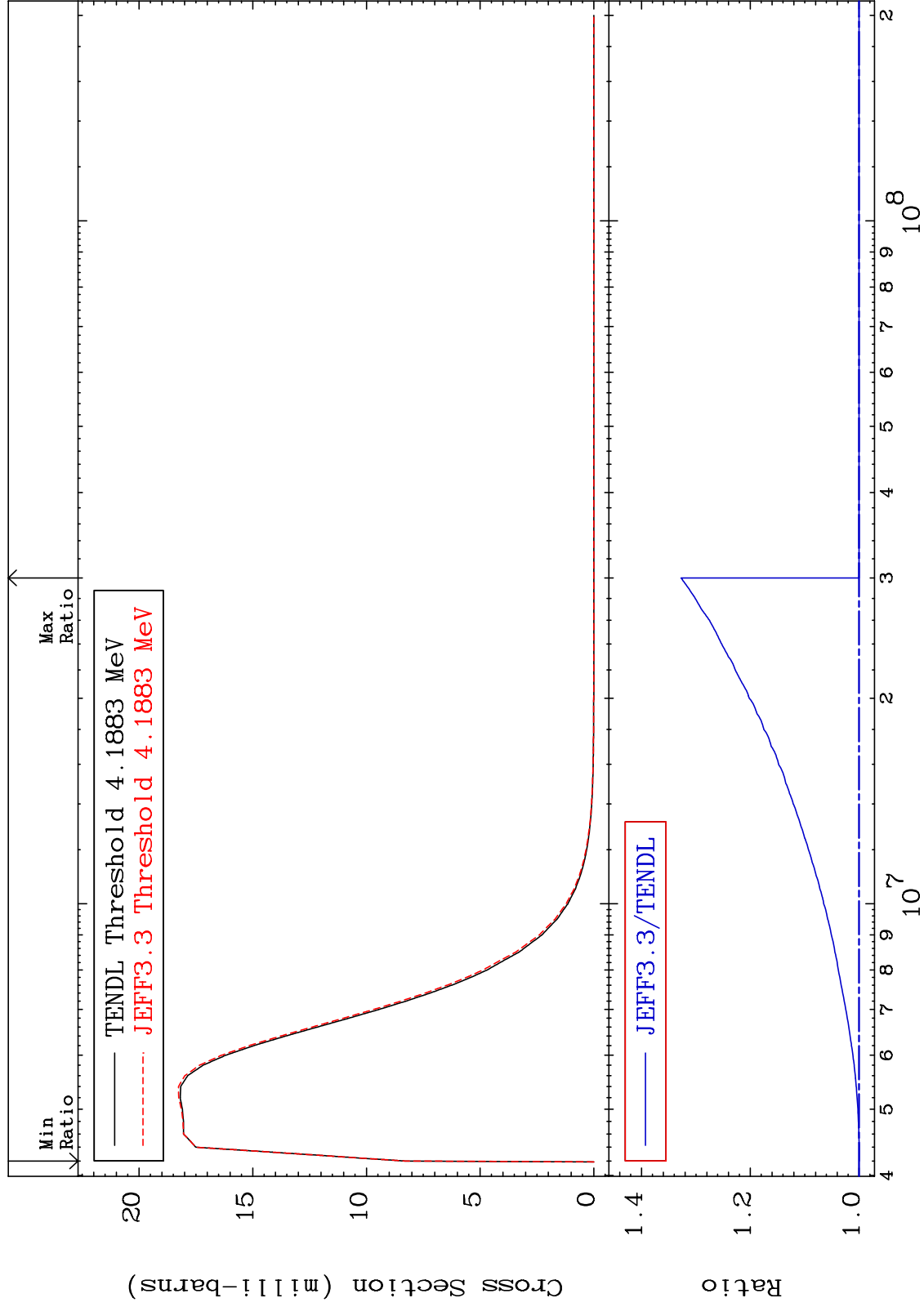
Incident Energy (eV)

22-Ti-48

MAT 2231

MT= 76 (n,n') Level
Cross Section

22-Ti-48
-0.042 To 32.74 %

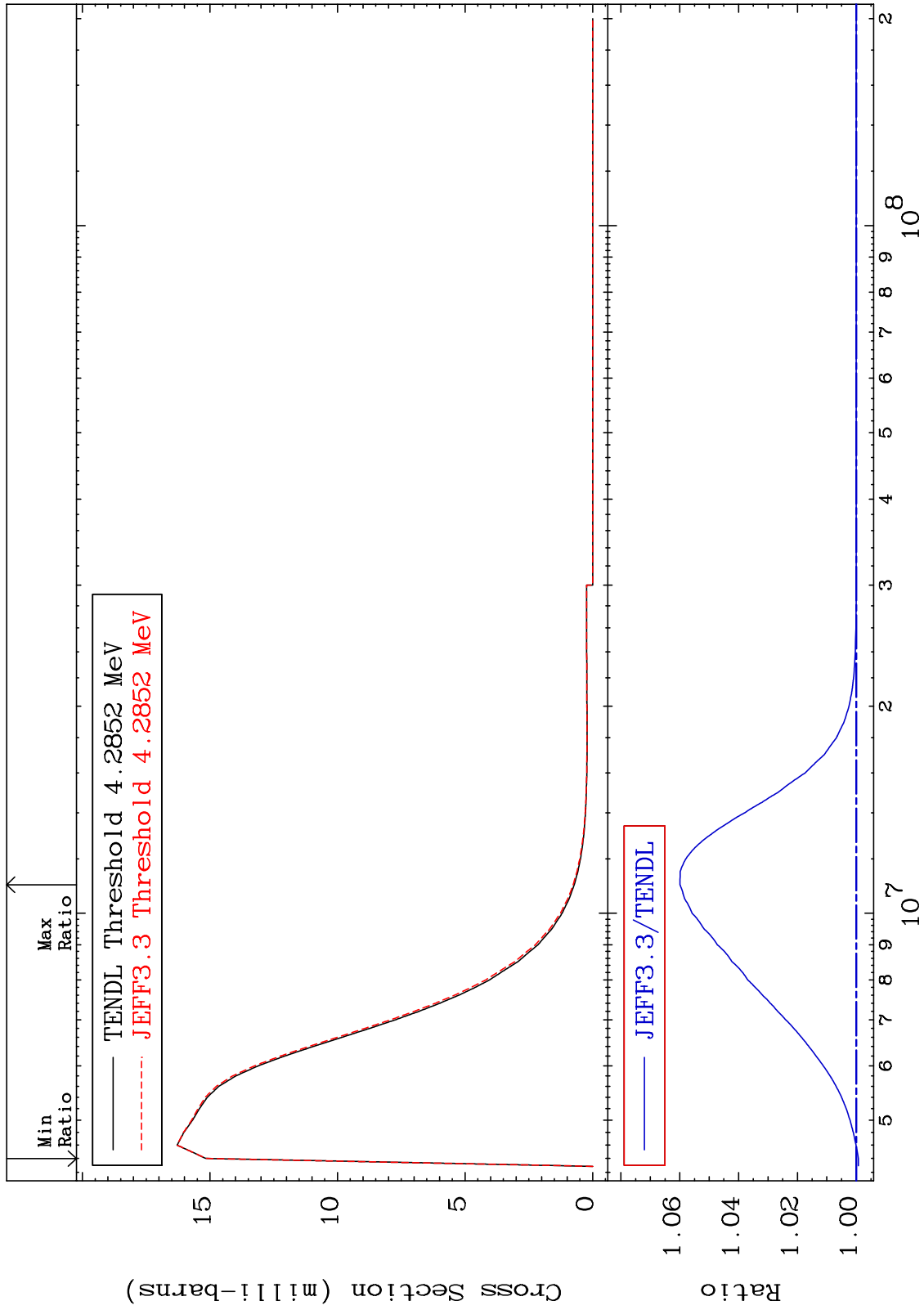


41

MAT 2231

MT= 77 (n,n') Level
Cross Section

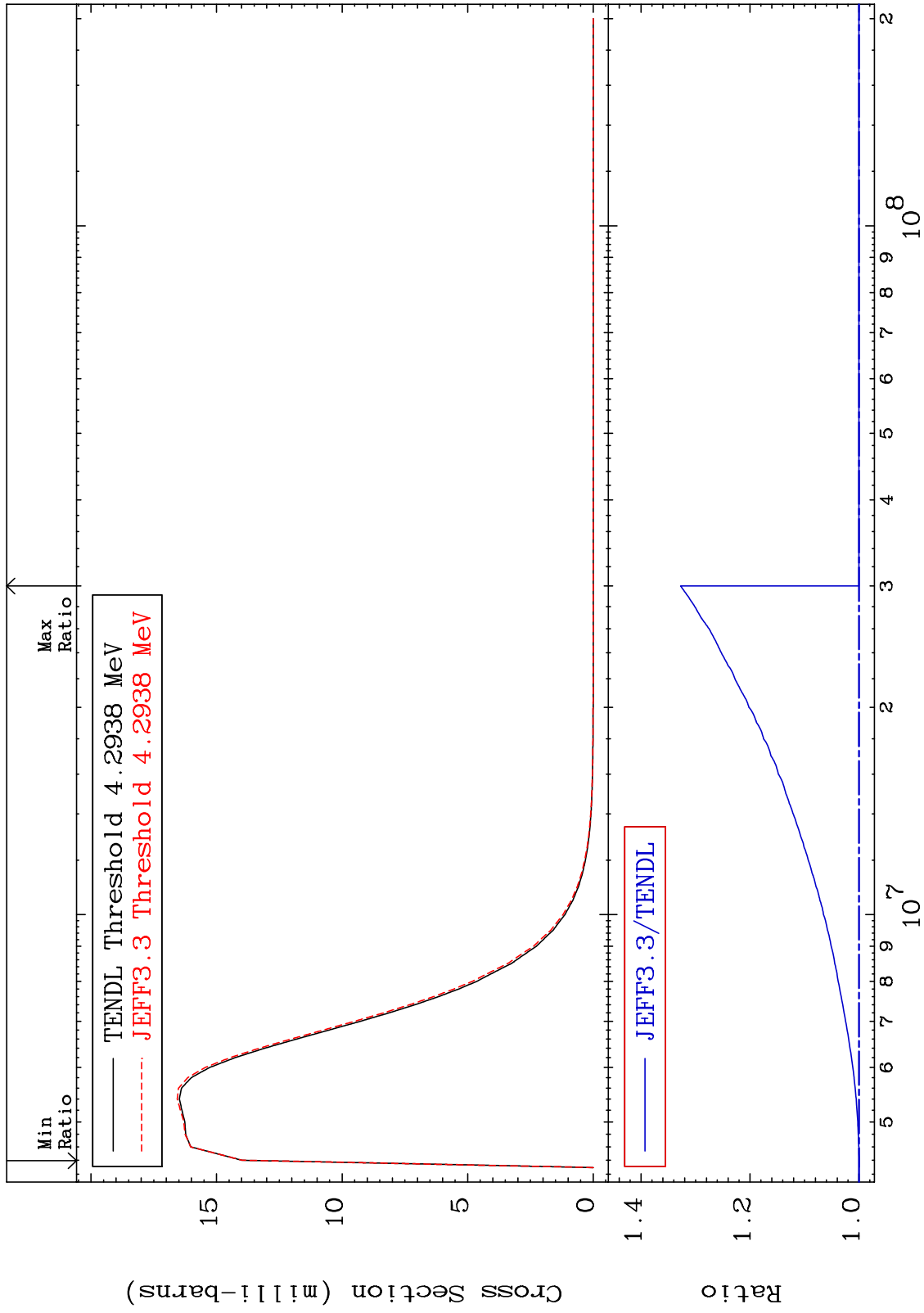
22-Ti-48
-0.074 To 5.991 %



MAT 2231

MT= 78 (n,n') Level
Cross Section

22-Ti-48
-0.035 To 32.74 %



43

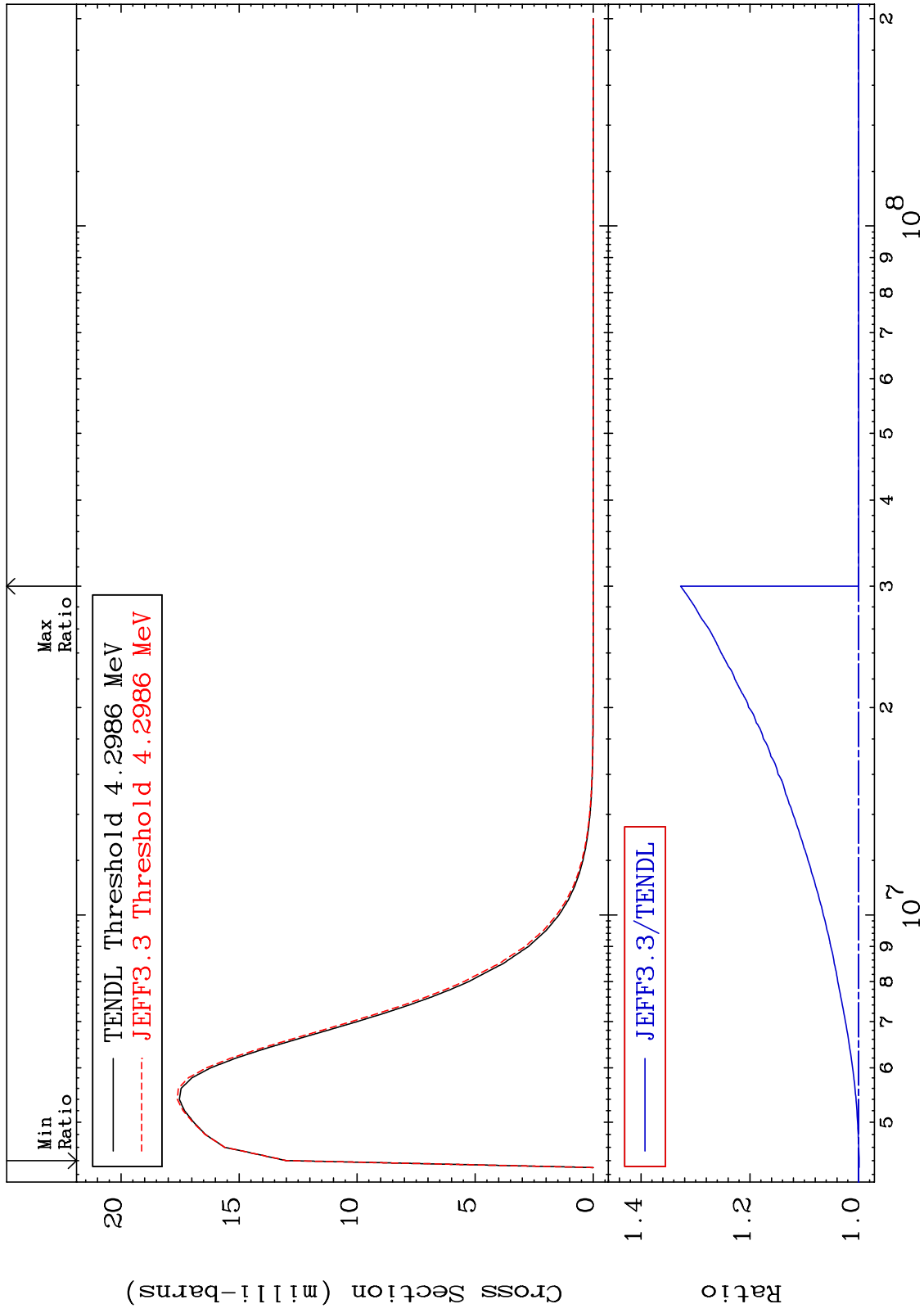
Incident Energy (eV)

22-Ti-48

MAT 2231

MT= 79 (n,n') Level
Cross Section

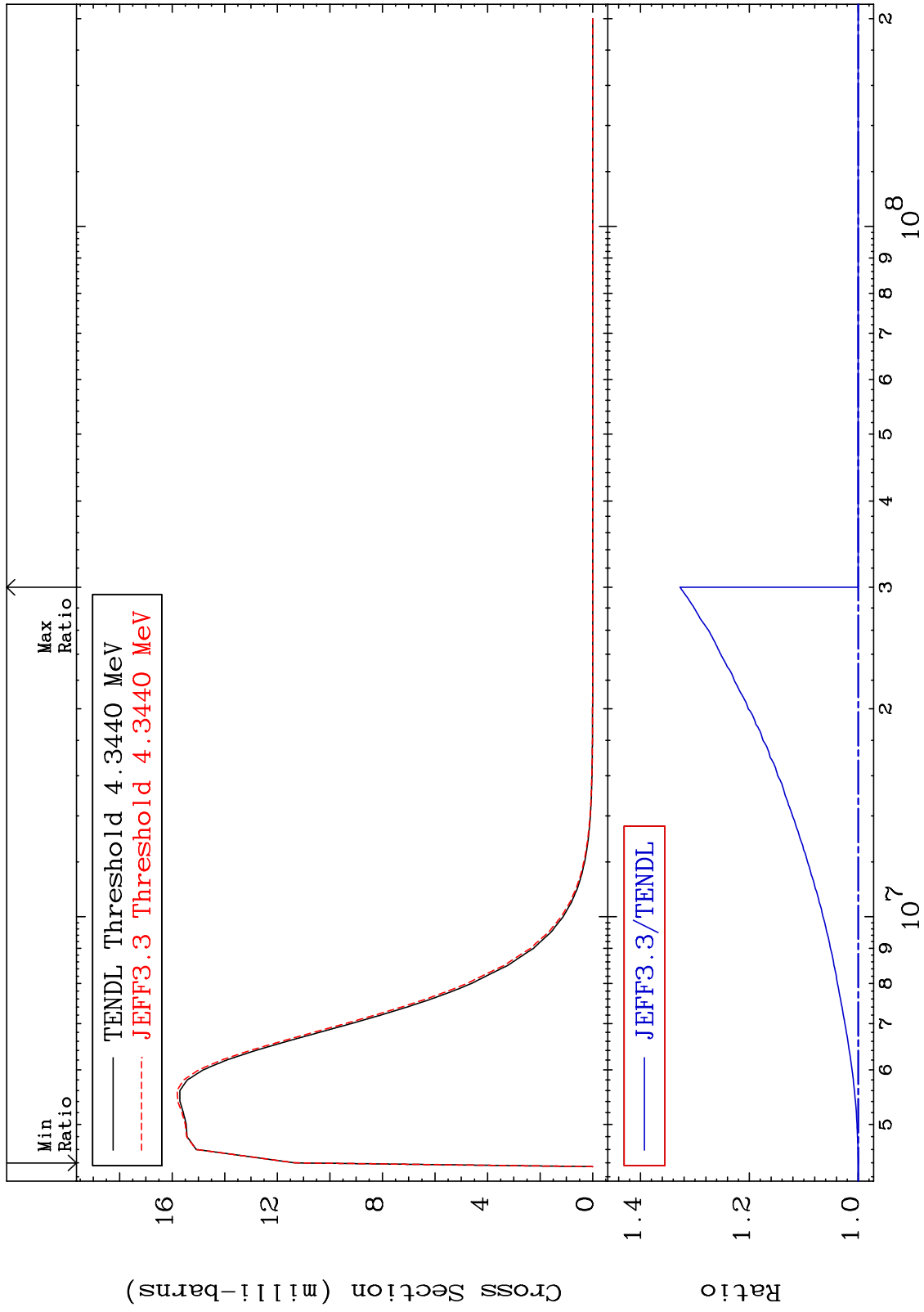
22-Ti-48
-0.081 To 32.74 %



MAT 2231

MT= 80 (n, n') Level
Cross Section

22-Ti-48
-0.033 To 32.74 %



45

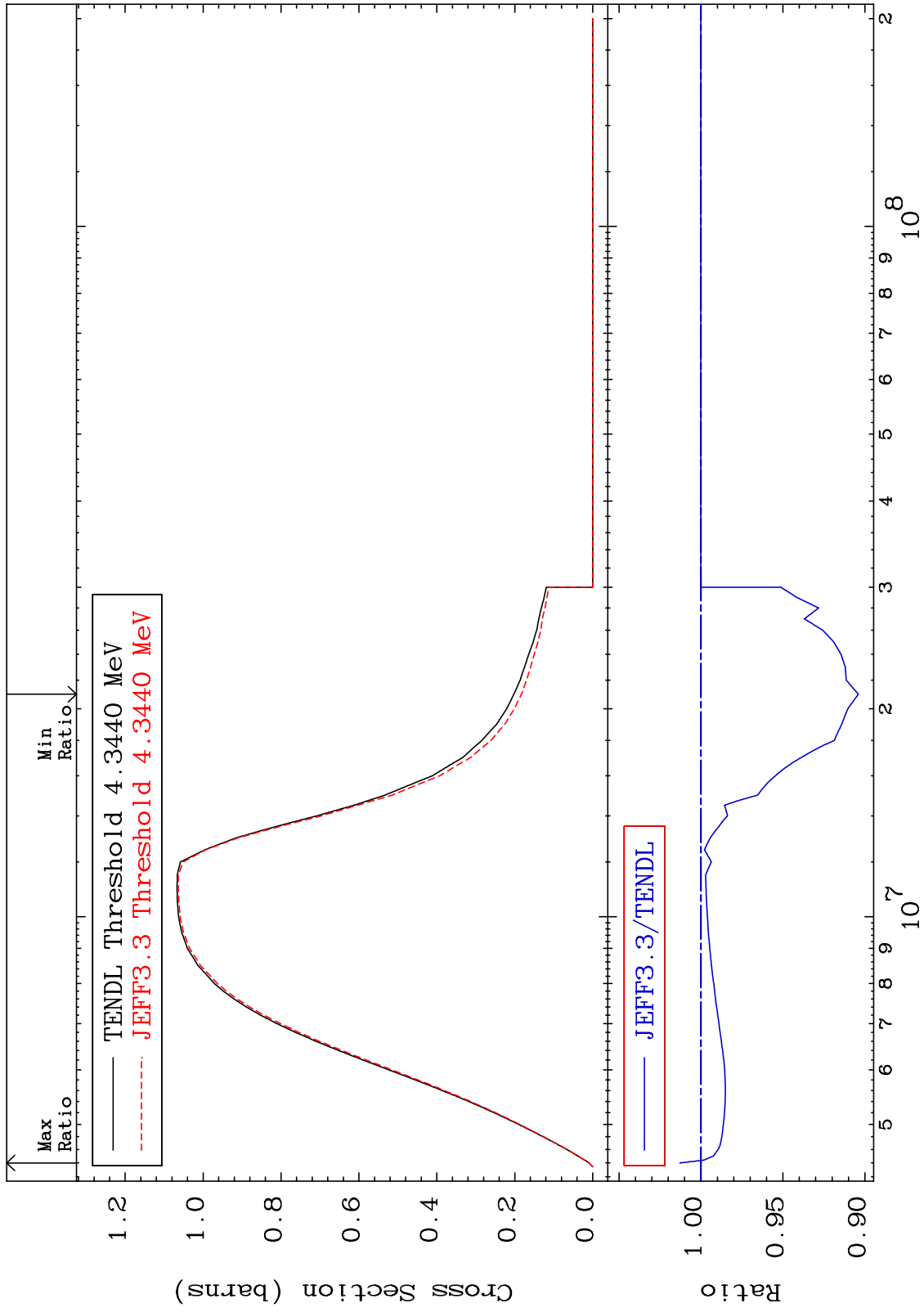
Incident Energy (eV)

22-Ti-48

MAT 2231

(n, n') Continuum
Cross Section

22-Ti-48
-9.606 To 1.279 %



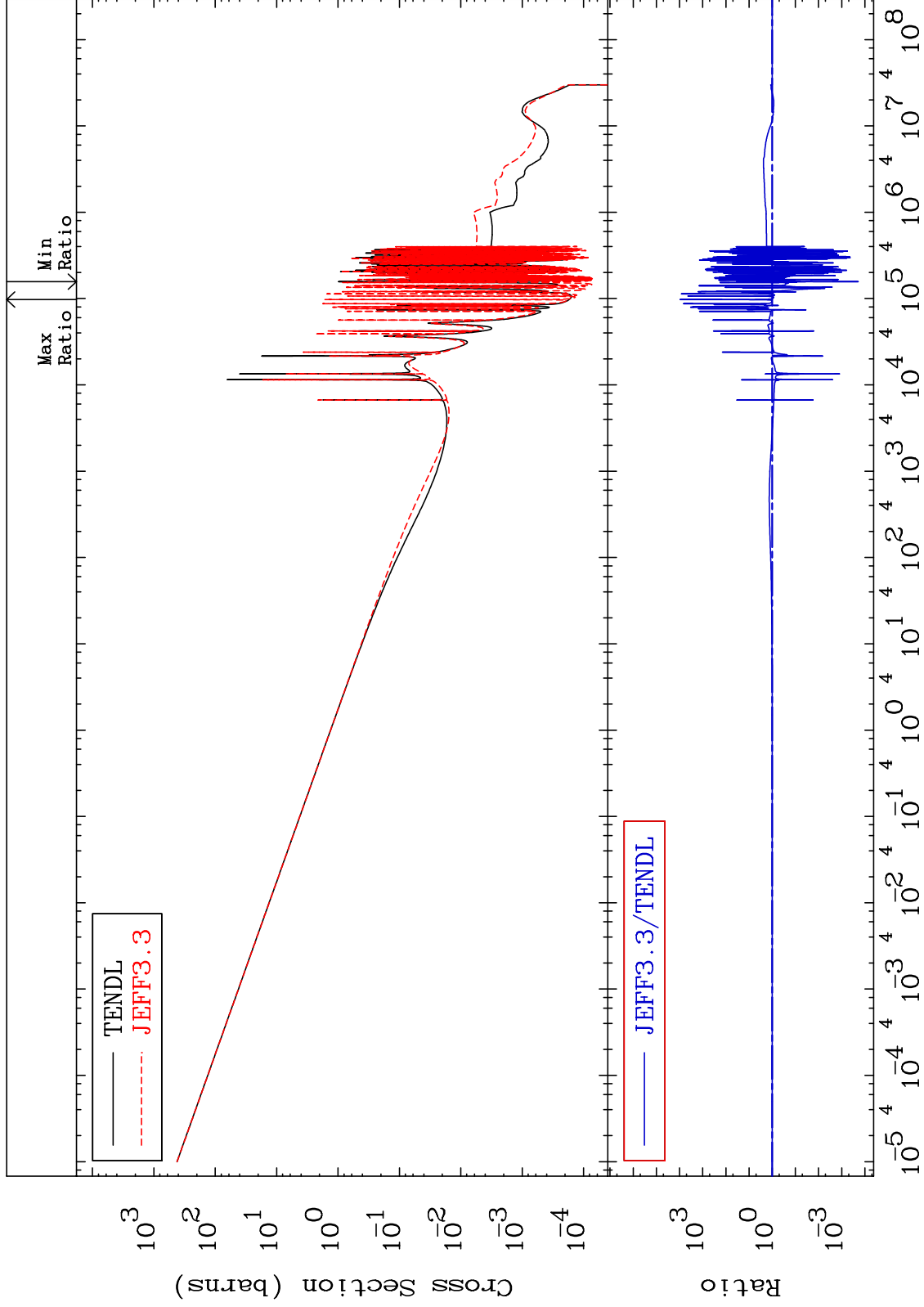
MAT 2231

(n, γ)

22-Ti-48

Cross Section

-99.98 To 9999. %



47

Incident Energy (eV)

22-Ti-48

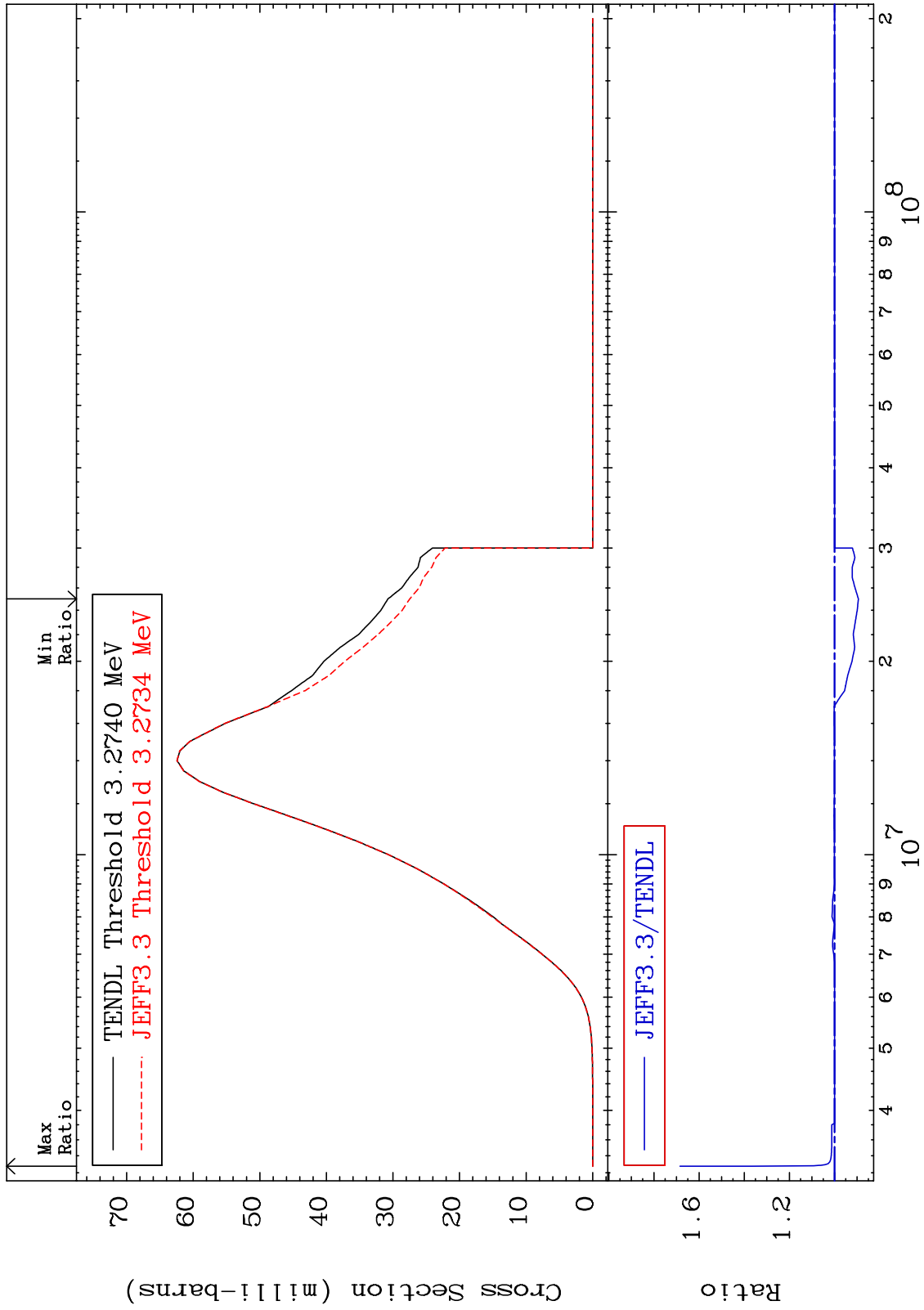
MAT 2231

(n,p)

22-Ti-48

Cross Section

-10.60 To 68.44 %



48

Incident Energy (eV)

22-Ti-48

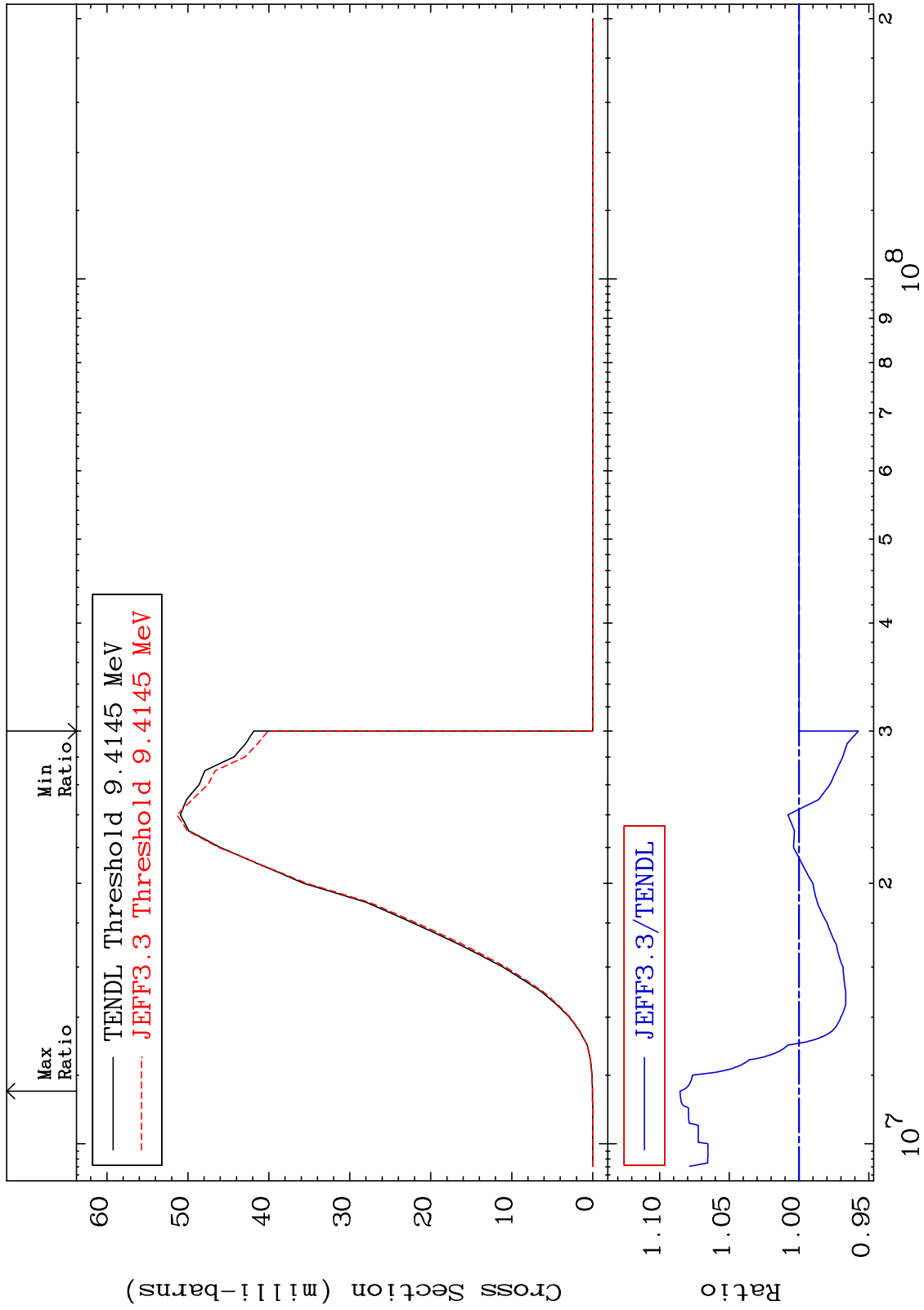
MAT 2231

(n,d)

22-Ti-48

Cross Section

-4.257 To 8.536 %



49

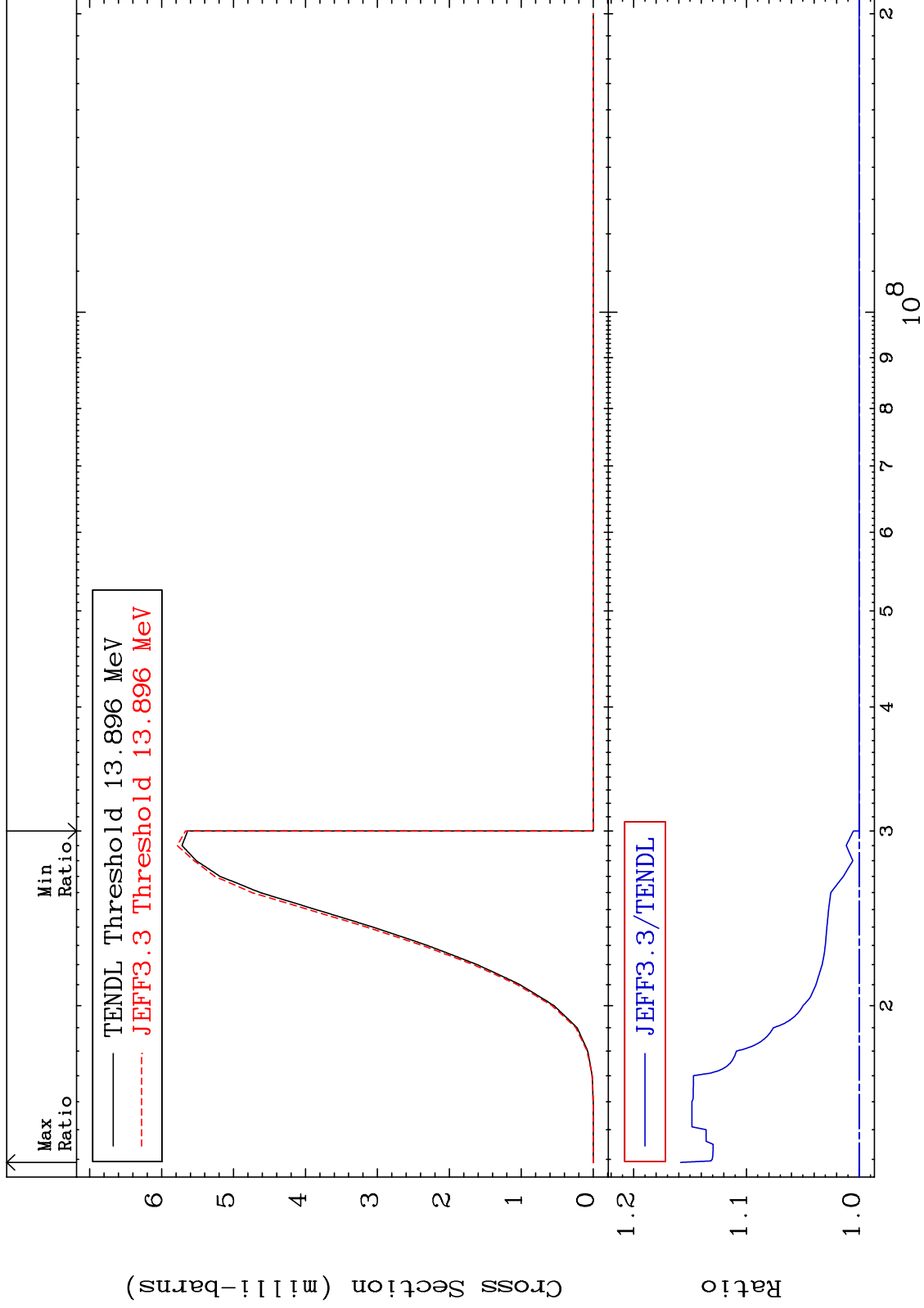
Incident Energy (eV)

22-Ti-48

MAT 2231

(n, t)
Cross Section

22-Ti-48
0.000 To 15.83 %



50

Incident Energy (eV)

22-Ti-48

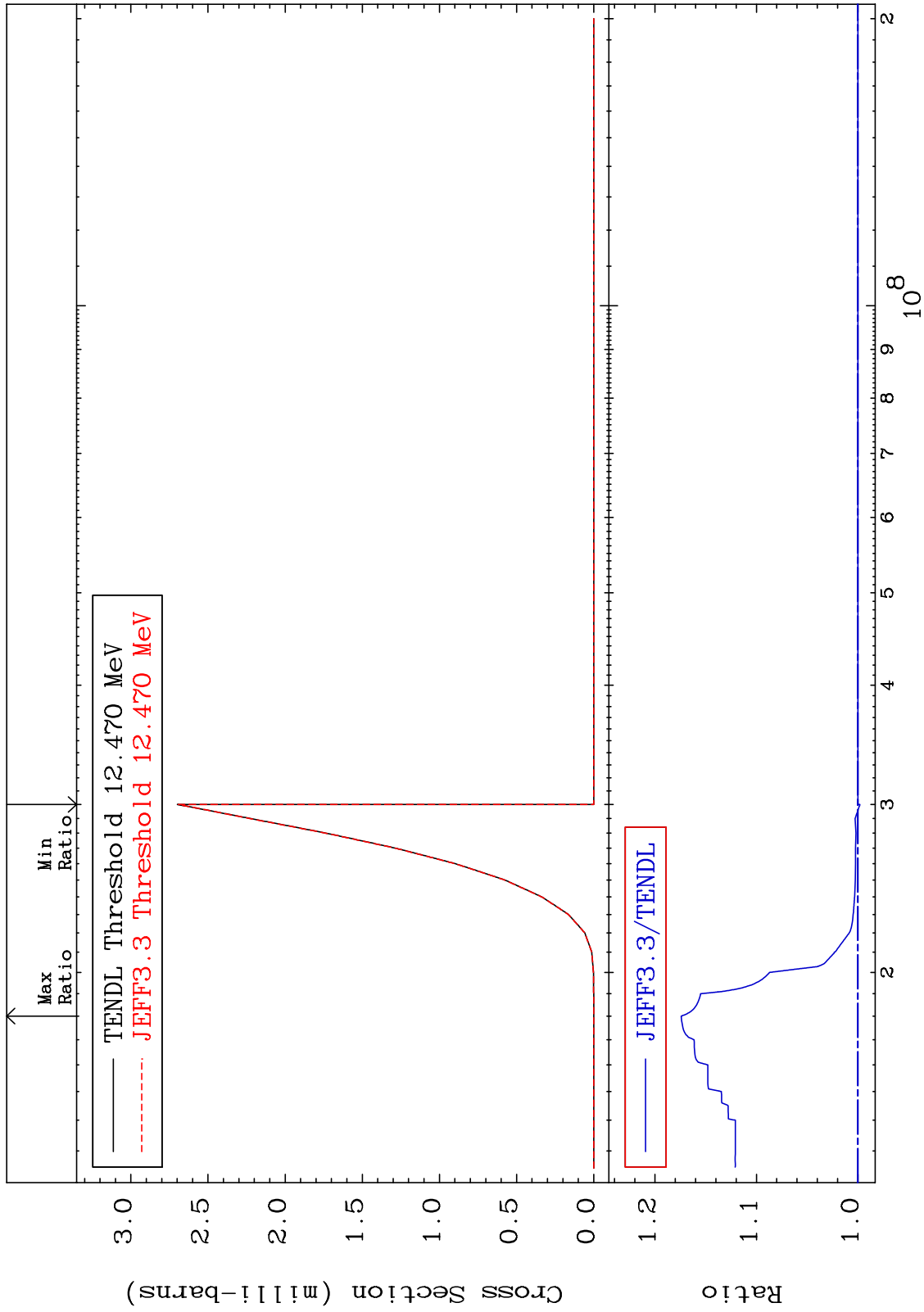
MAT 2231

(n, He-3)

22-Ti-48

Cross Section

-0.207 To 17.42 %



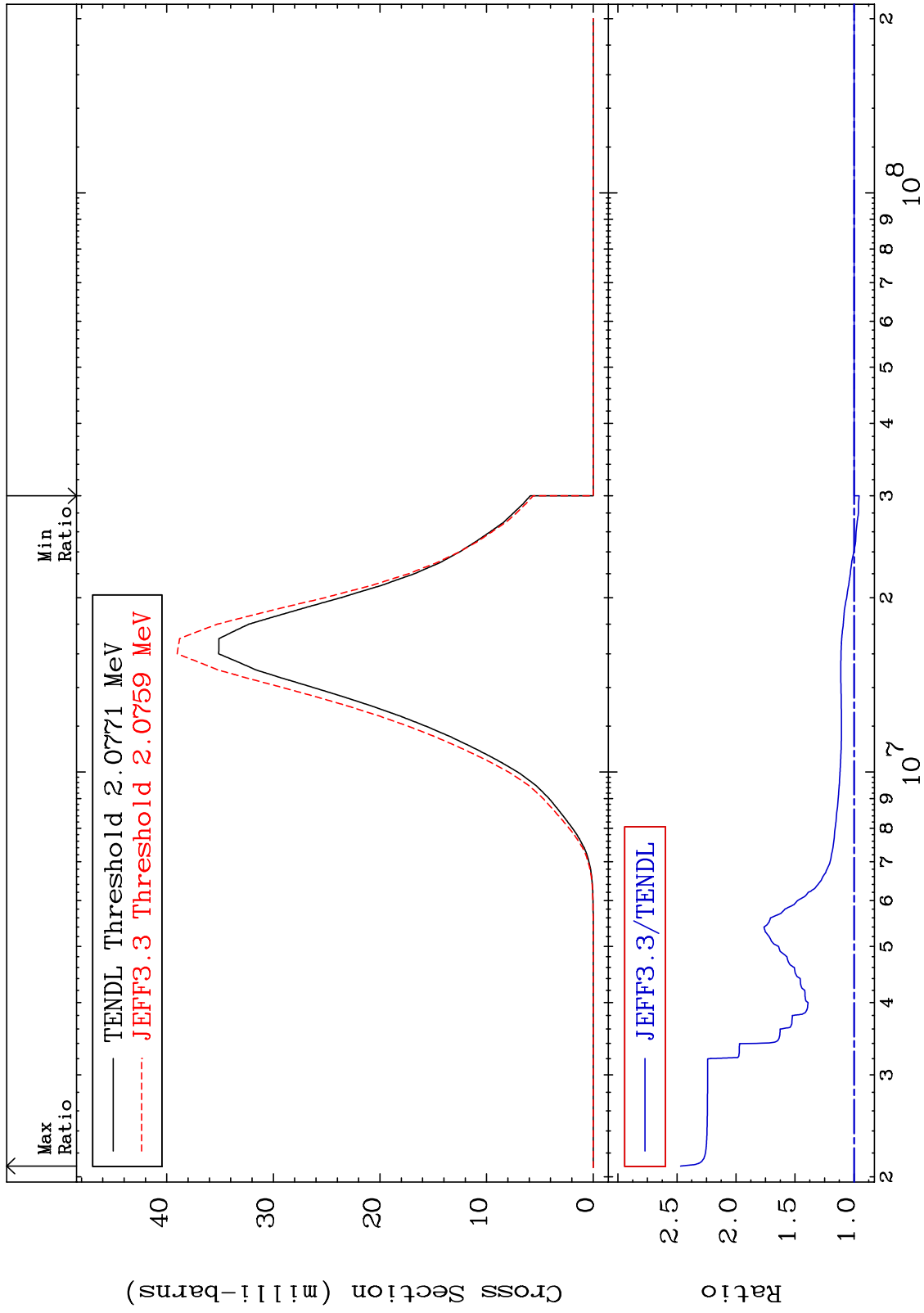
MAT 2231

(n, α)

22-Ti-48

Cross Section

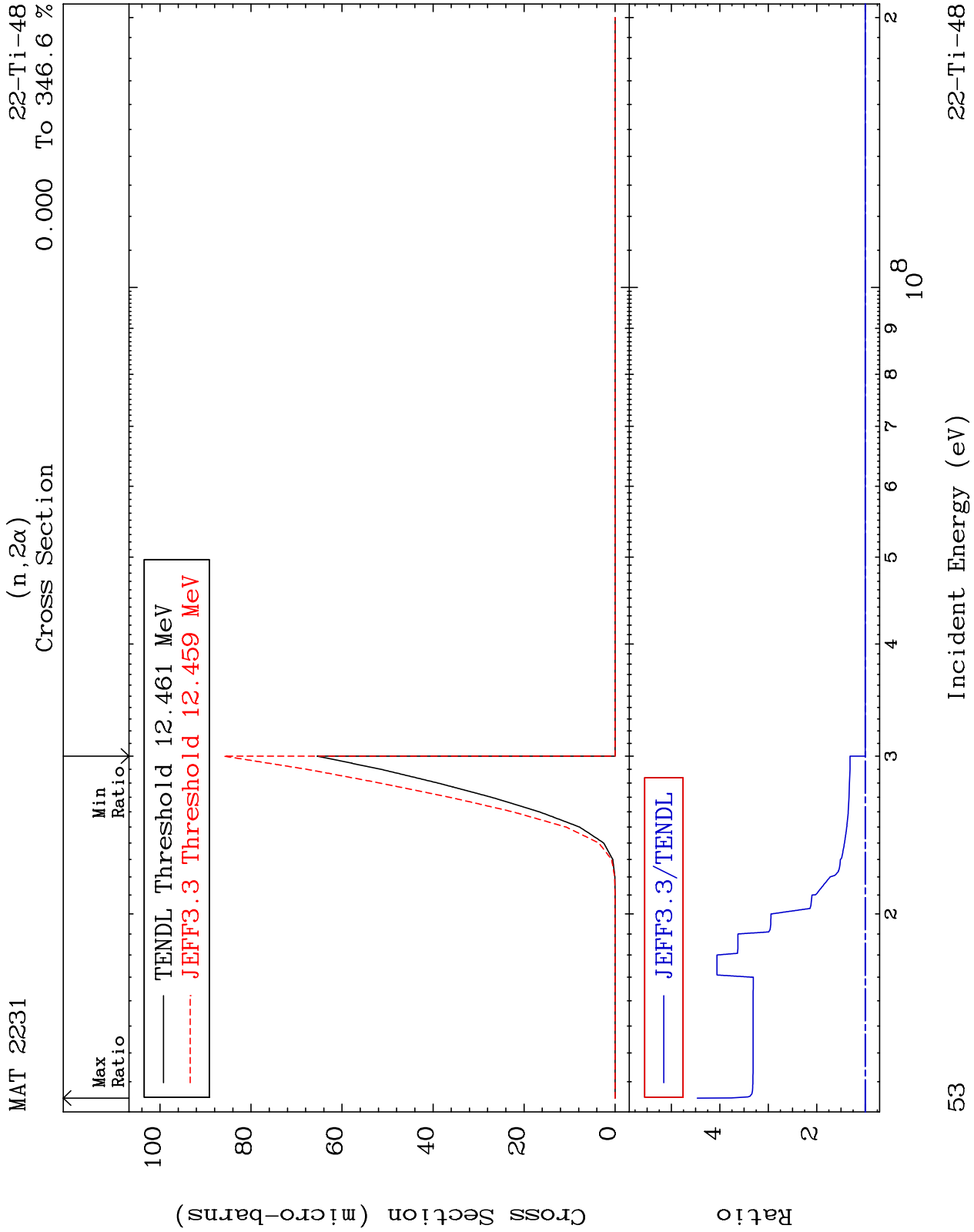
-4.328 To 146.9 %

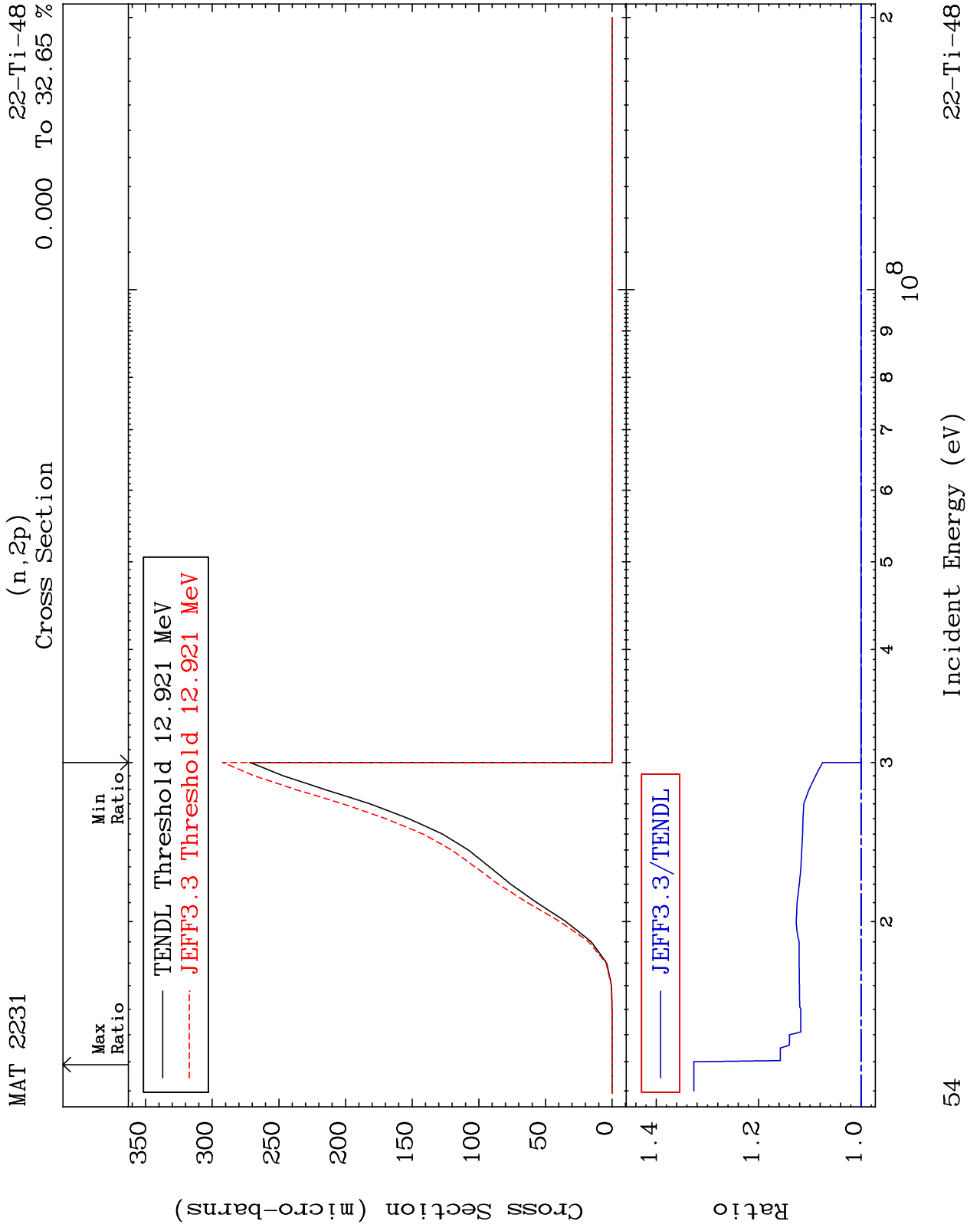


Incident Energy (eV)

22-Ti-48

52





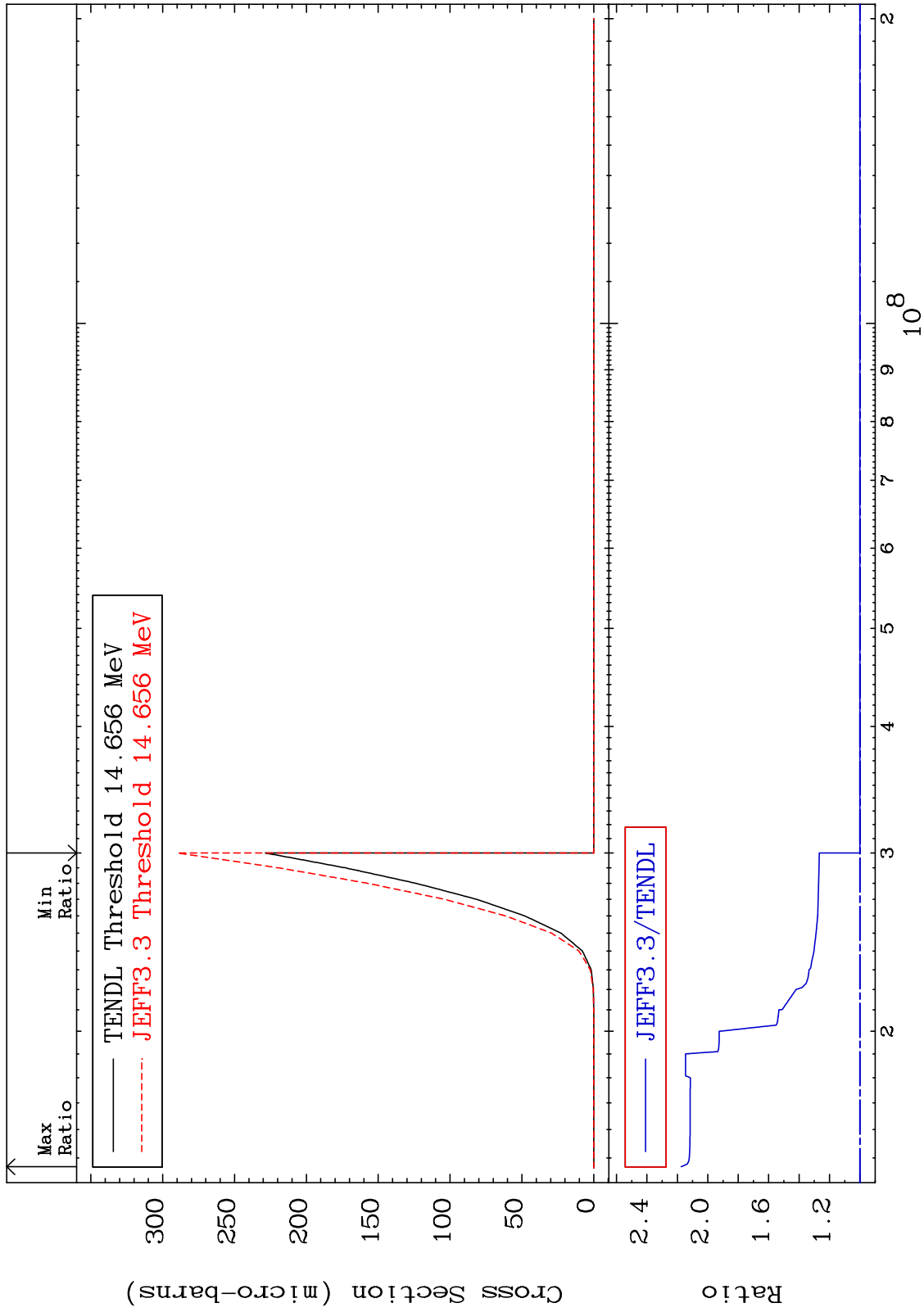
MAT 2231

(n,p) α

22-Ti-48

Cross Section

0.000 To 117.5 %



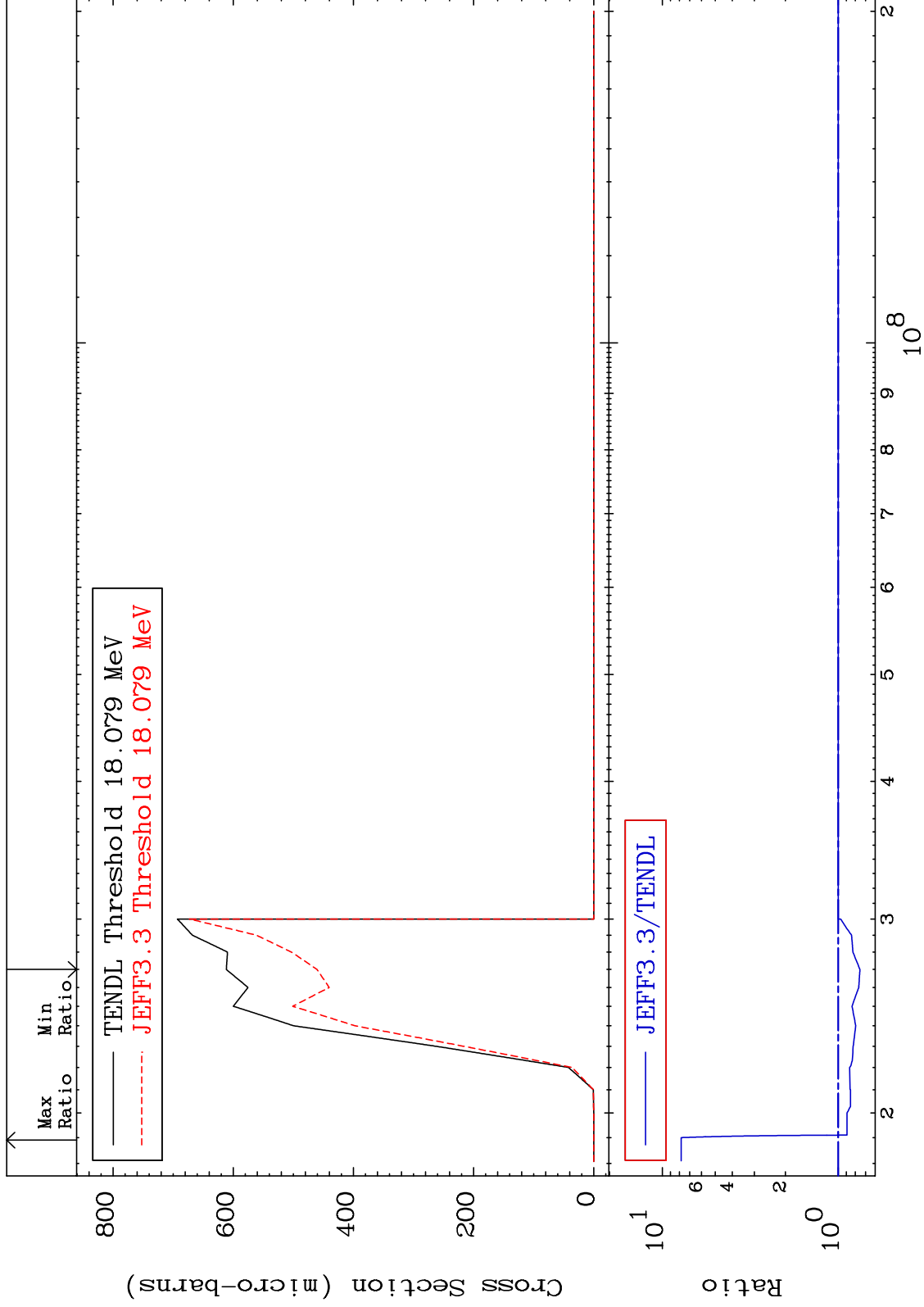
MAT 2231

(n,p) d

22-Ti-48

Cross Section

-24.68 To 681.3 %



56

Incident Energy (eV)

22-Ti-48

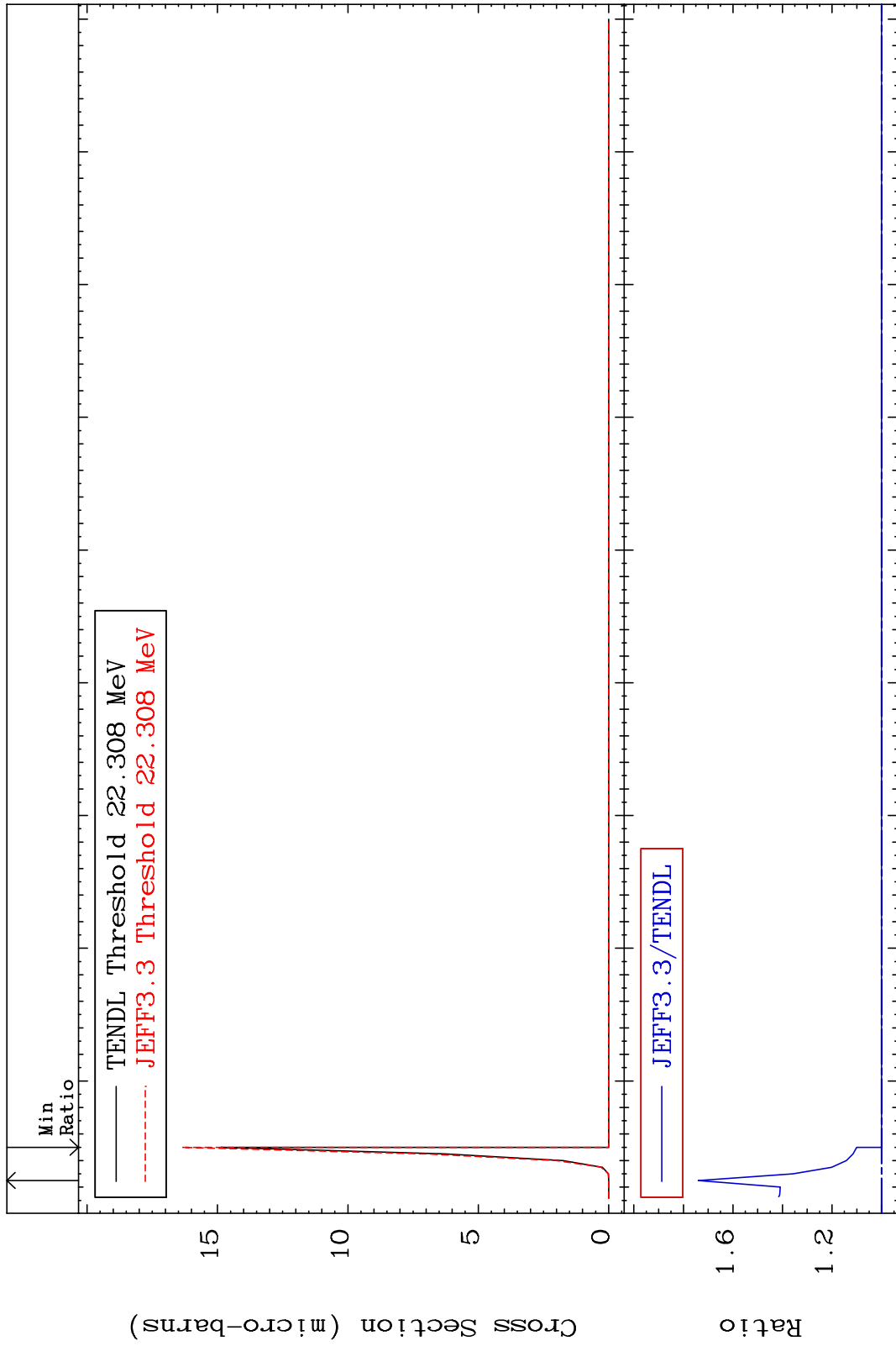
MAT 2231

(n,p) t

22-Ti-48

Cross Section

0.000 To 73.96 %



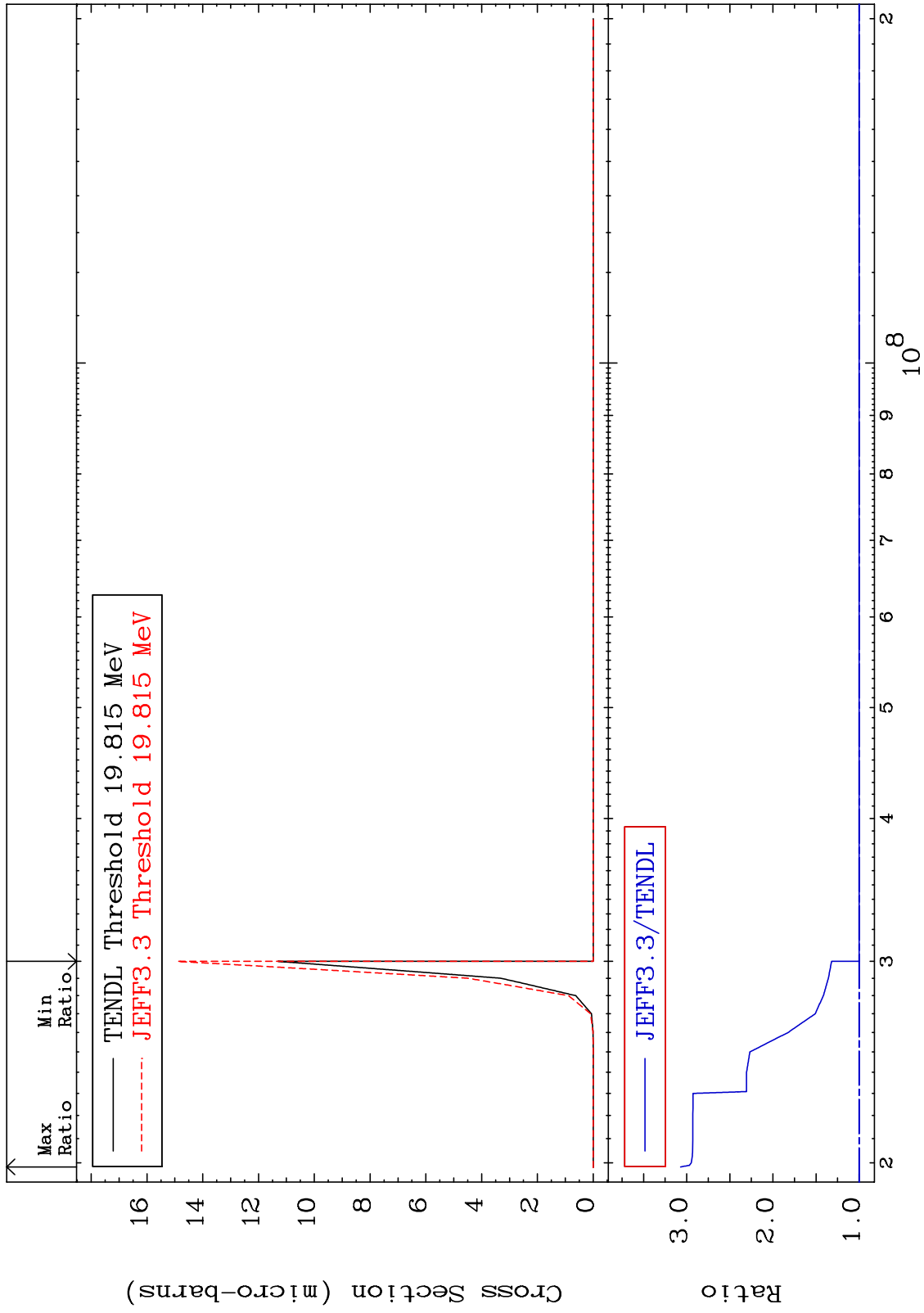
MAT 2231

(n,d) α

22-Ti-48

Cross Section

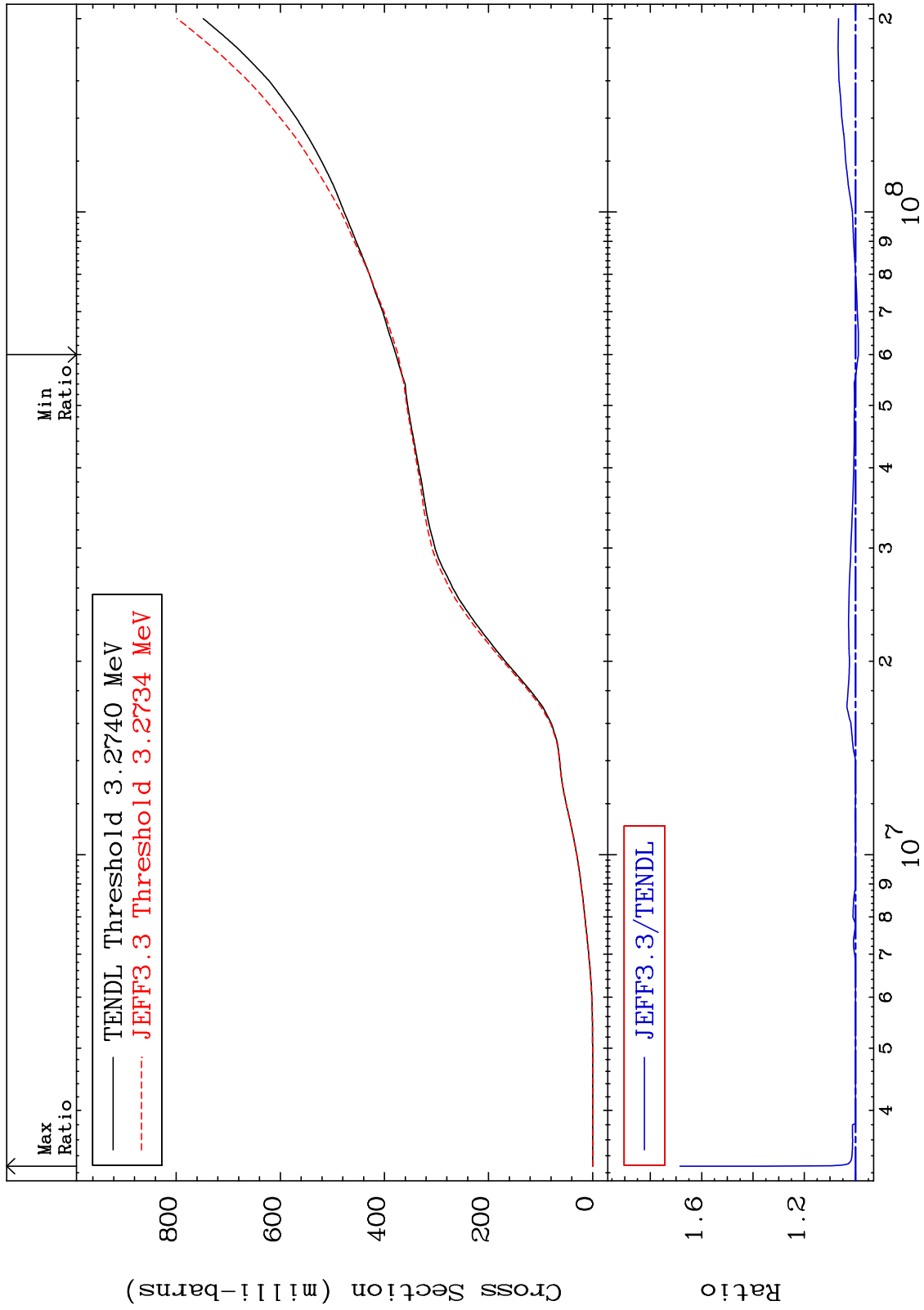
0.000 To 207.0 %



MAT 2231

Hydrogen Production
Cross Section

$^{22}\text{Ti-48}$
-1.083 To 68.44 %



59

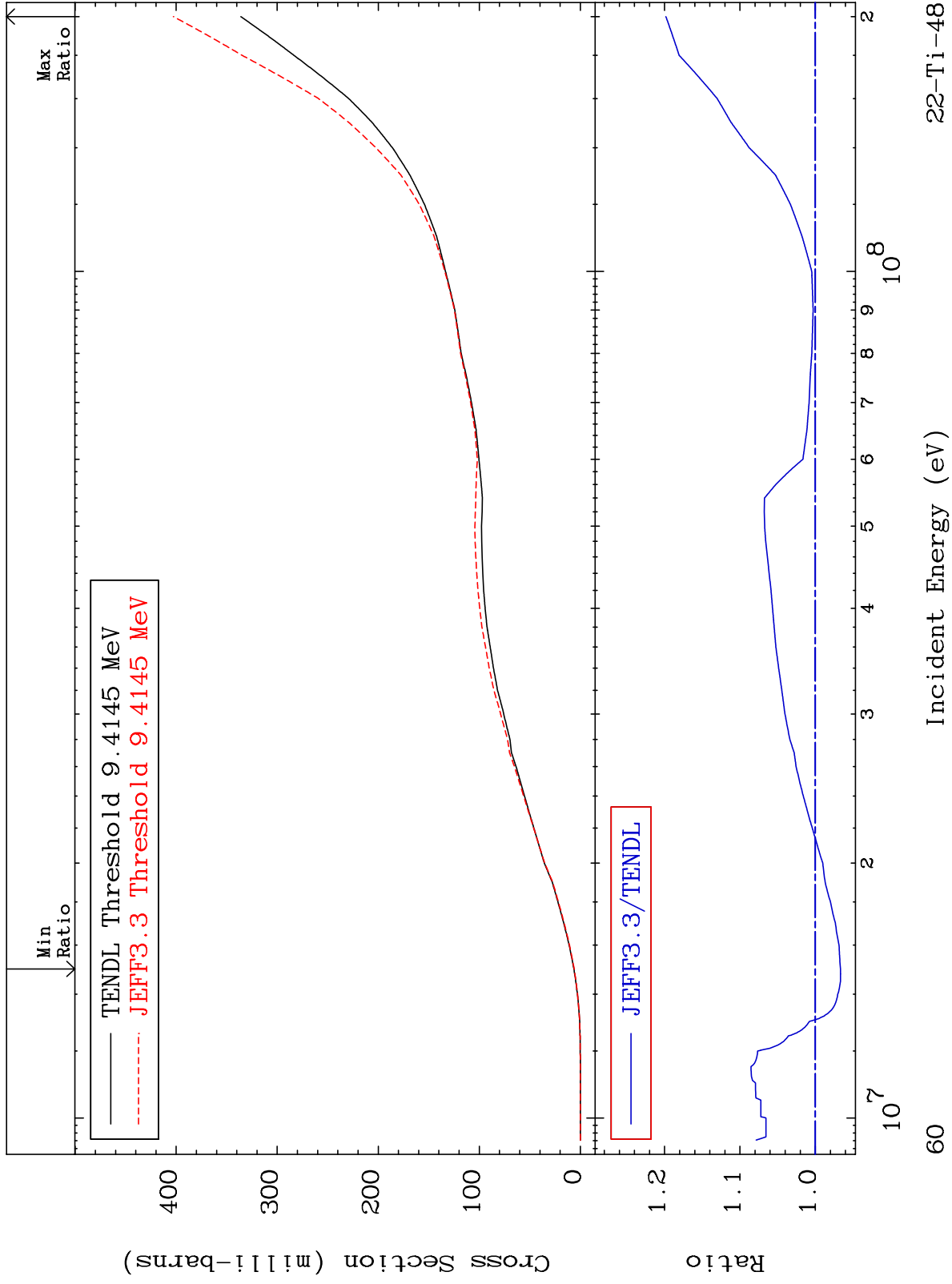
Incident Energy (eV)

$^{22}\text{Ti-48}$

MAT 2231

Deuterium Production
Cross Section

22-Ti-48
-3.348 To 19.83 %

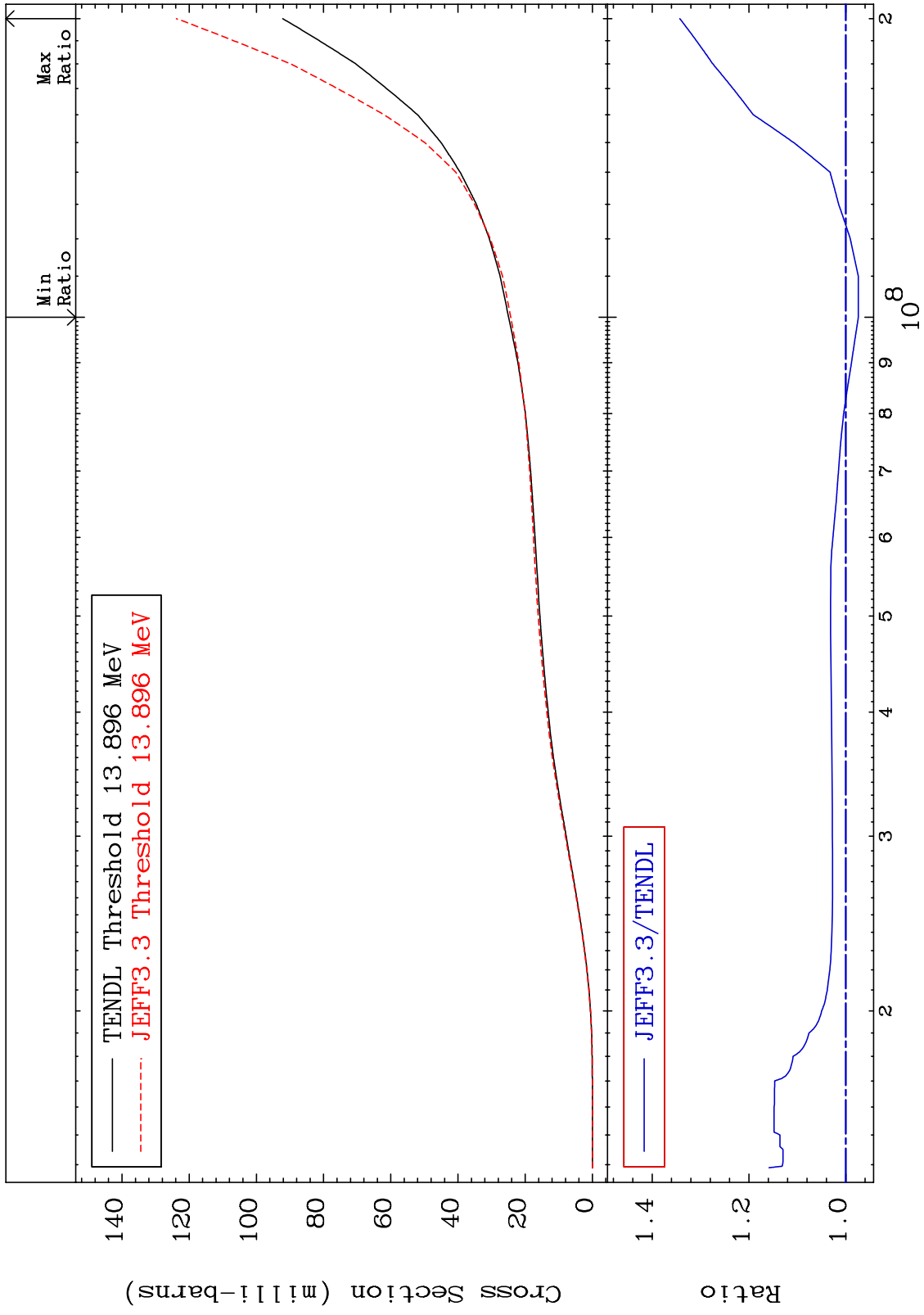


22-Ti-48

MAT 2231

Tritium Production
Cross Section

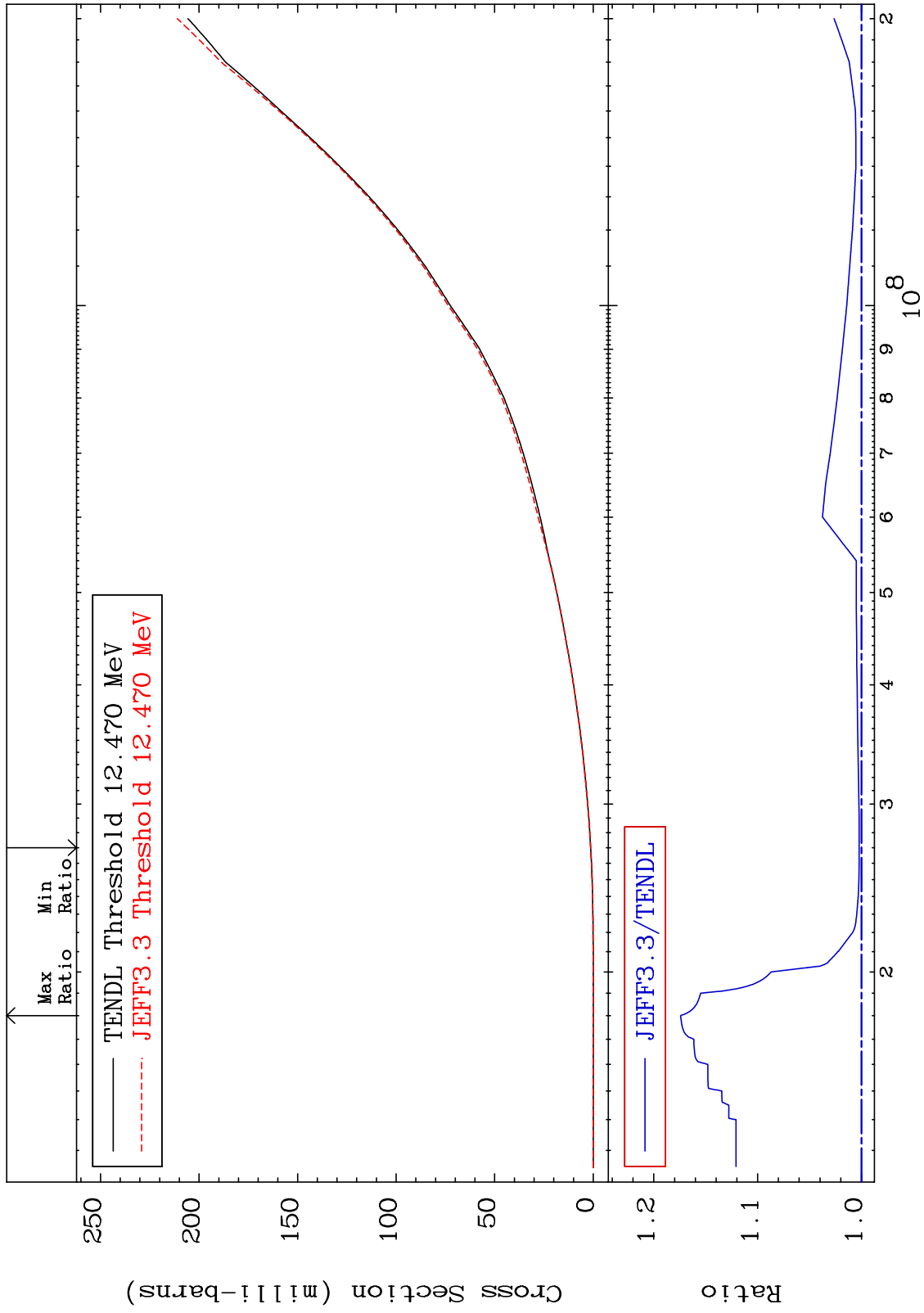
22-Ti-48
-2.603 To 34.29 %



MAT 2231

He-3 Production
Cross Section

22-Ti-48
0.223 To 17.42 %



62

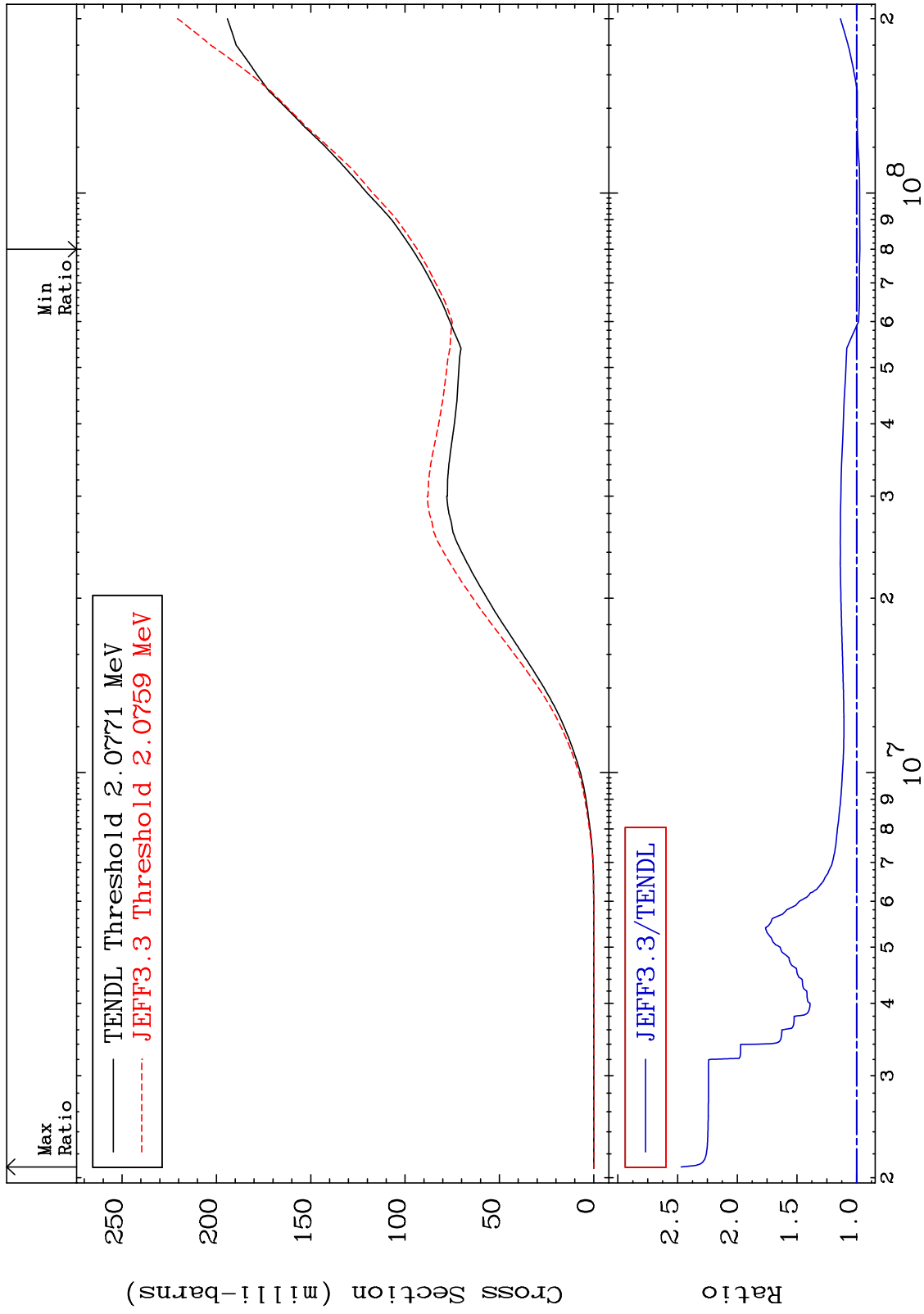
Incident Energy (eV)

22-Ti-48

MAT 2231

He-4 Production
Cross Section

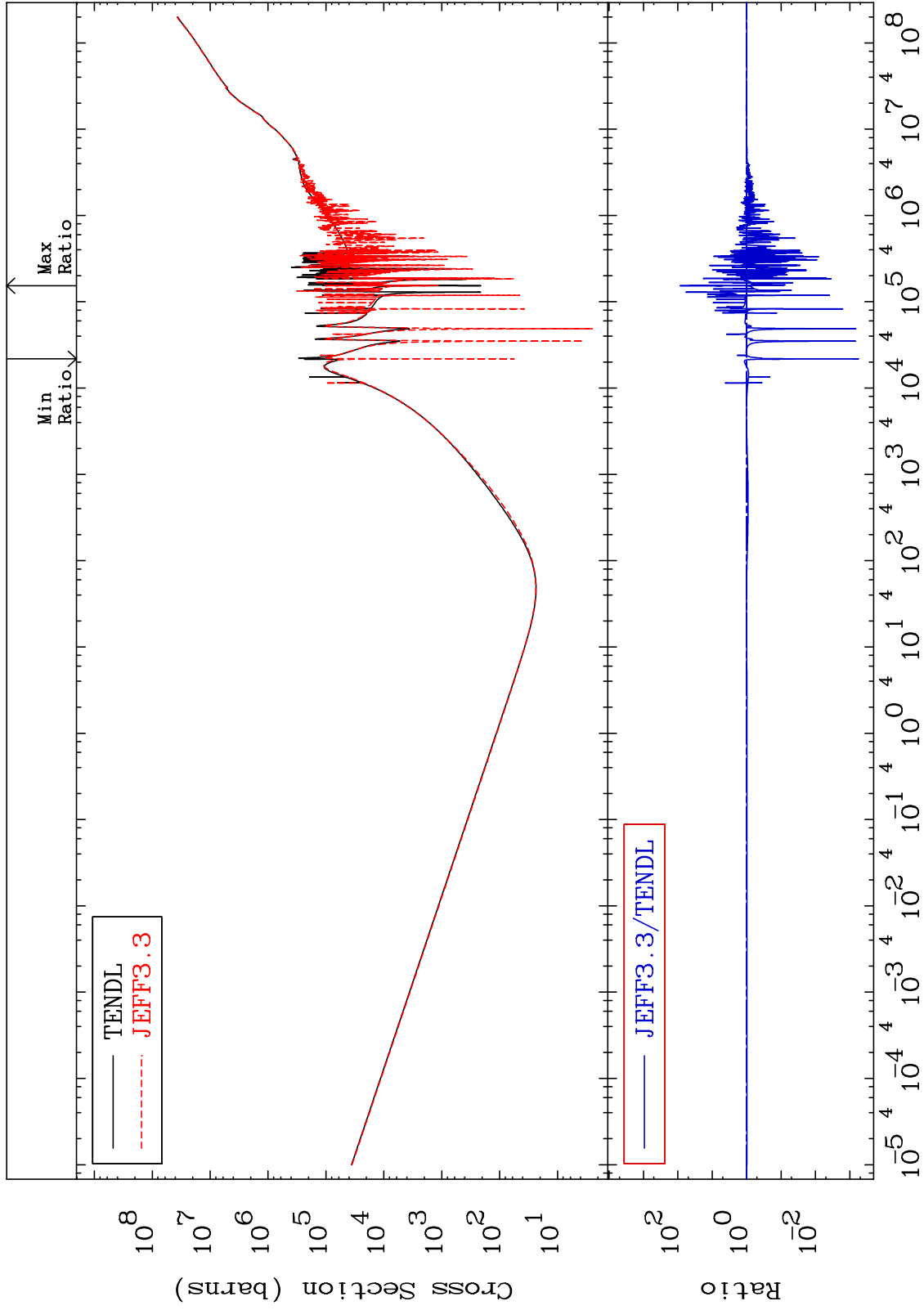
22-Ti-48
-2.750 To 146.9 %



MAT 2231

Kerma total (eV-barns)
Cross Section

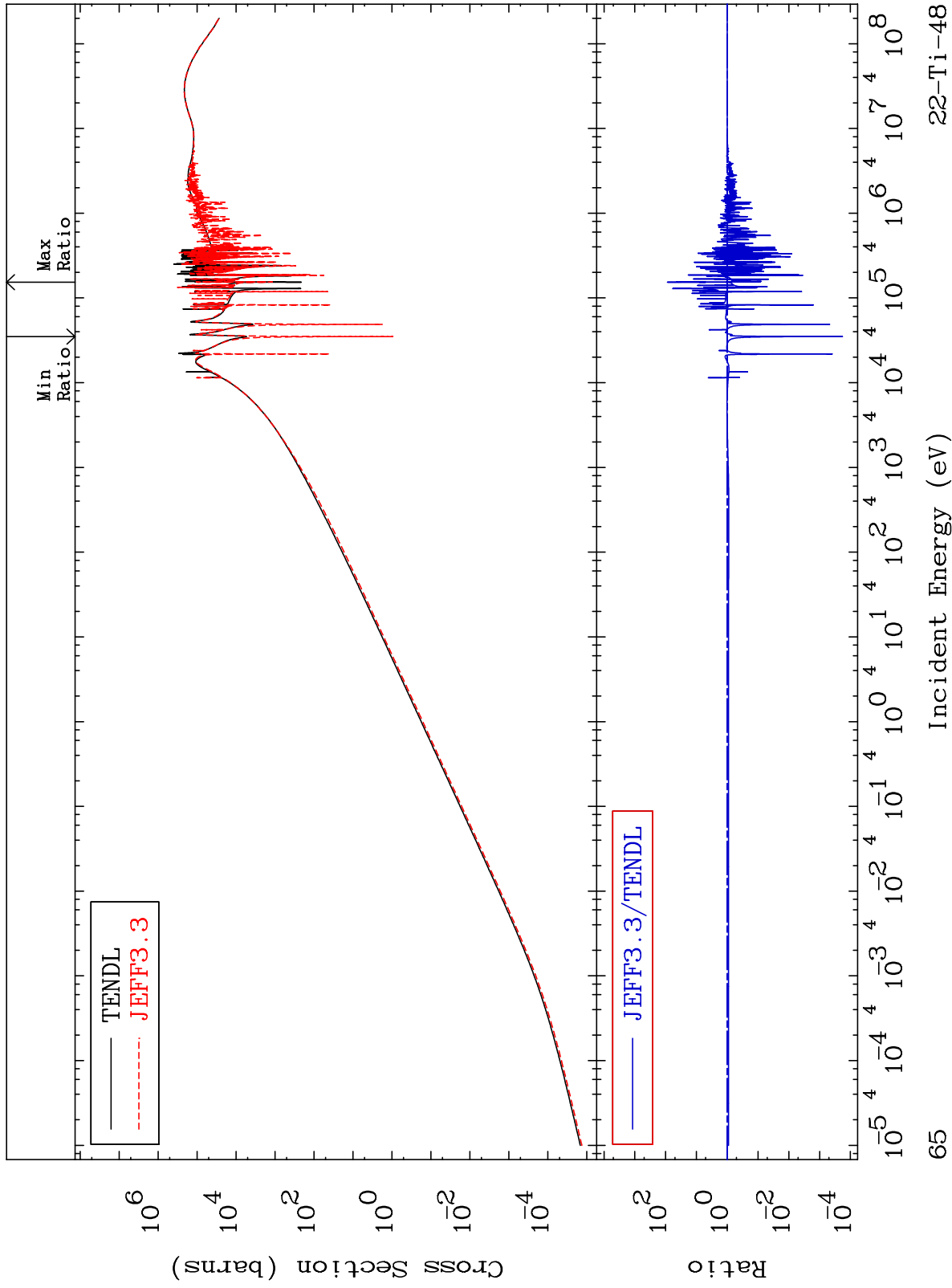
22-Ti-48
-99.94 To 8563. %



MAT 2231

Kerma elastic
Cross Section

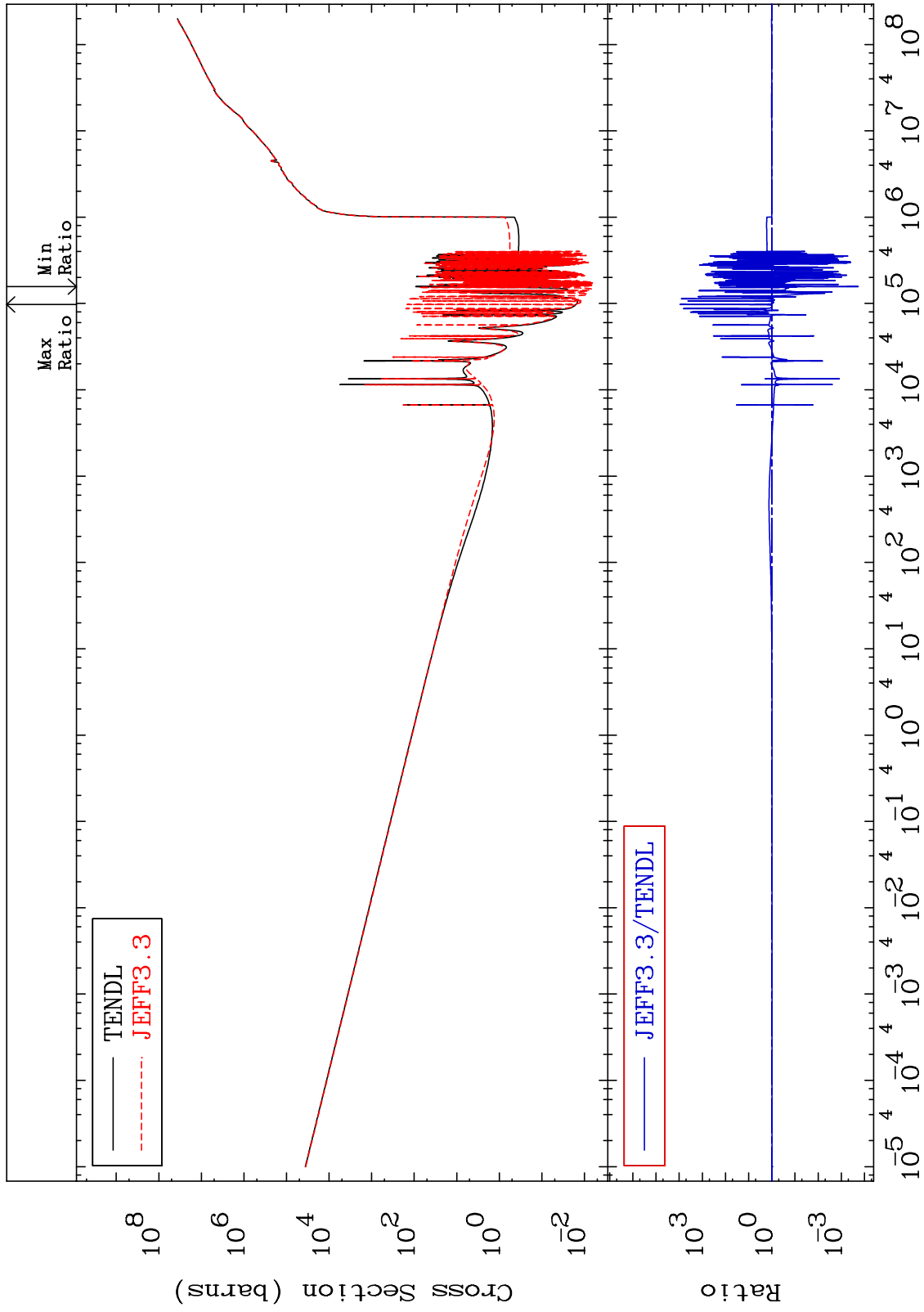
22-Ti-48
-99.98 To 8560. %



MAT 2231

Kerma non-elastic (all but mt2)
Cross Section

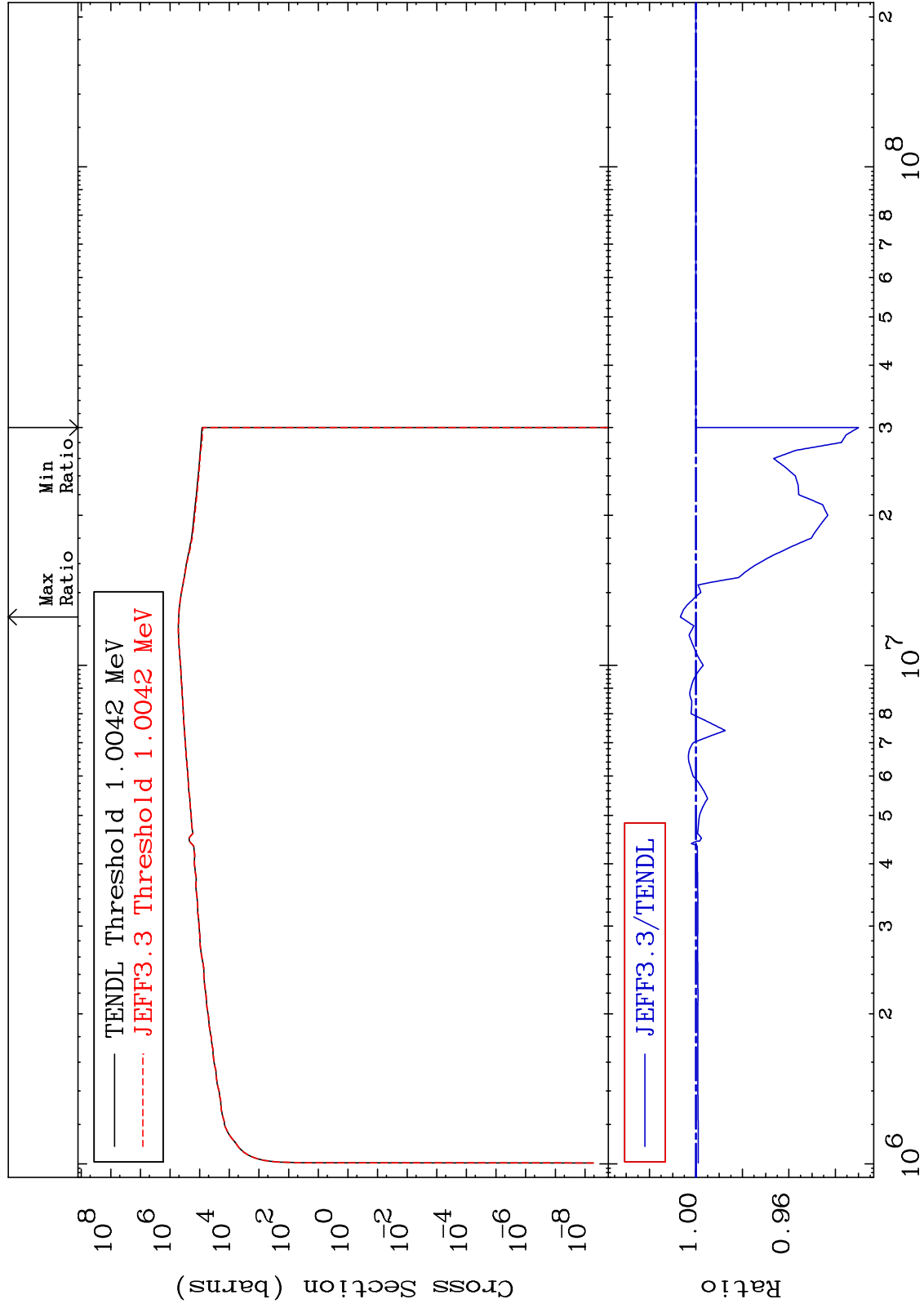
22-Ti-48
-99.98 To 9999. %



MAT 2231

Kerma inelastic (mt51-91)
Cross Section

22-Ti-48
-7.000 To 0.667 %



Incident Energy (eV)

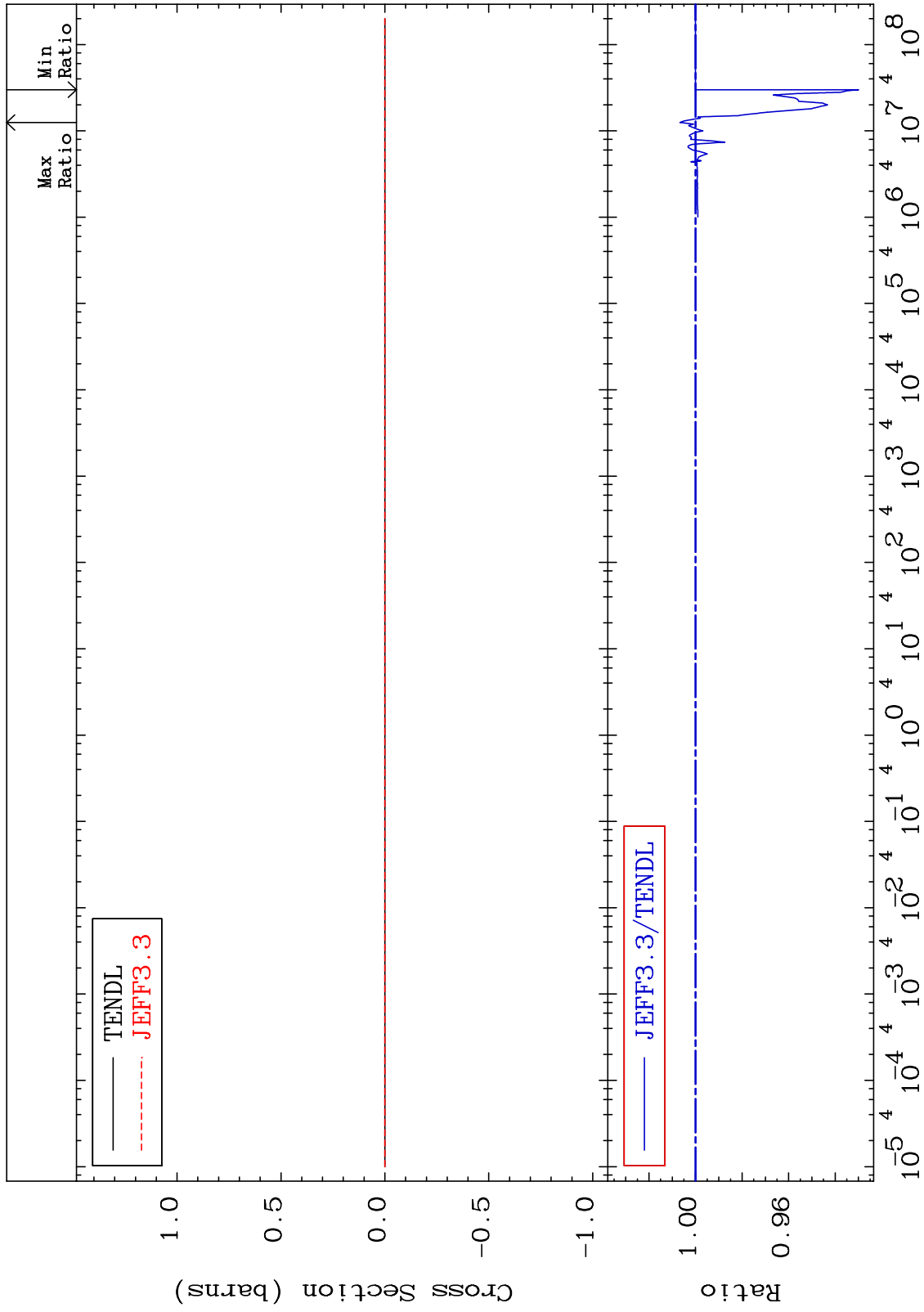
22-Ti-48

67

MAT 2231

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

22-Ti-48
-7.000 To 0.667 %



68

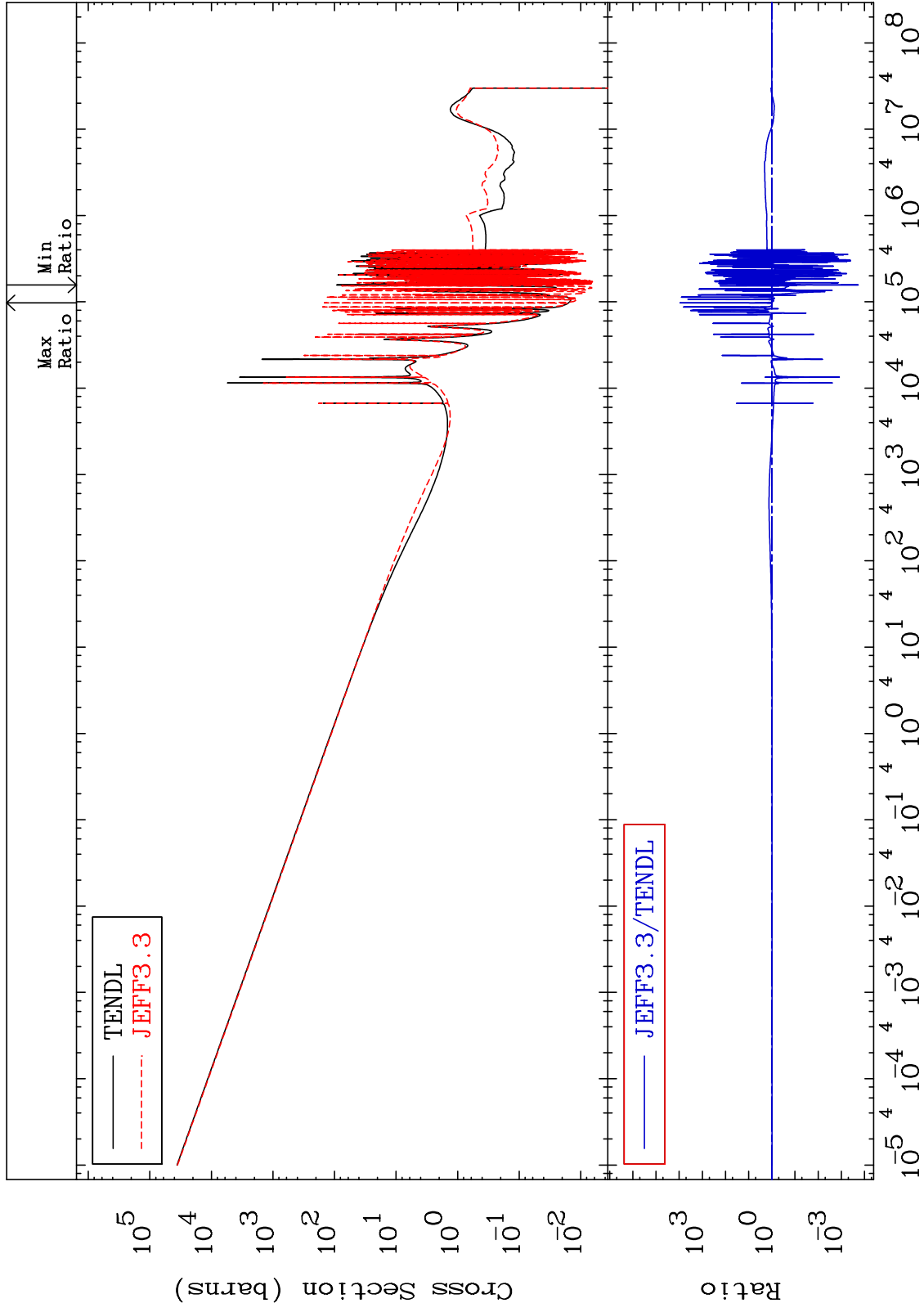
Incident Energy (eV)

22-Ti-48

MAT 2231

Kerma capture (mt102)
Cross Section

22-Ti-48
-99.98 To 9999. %



69

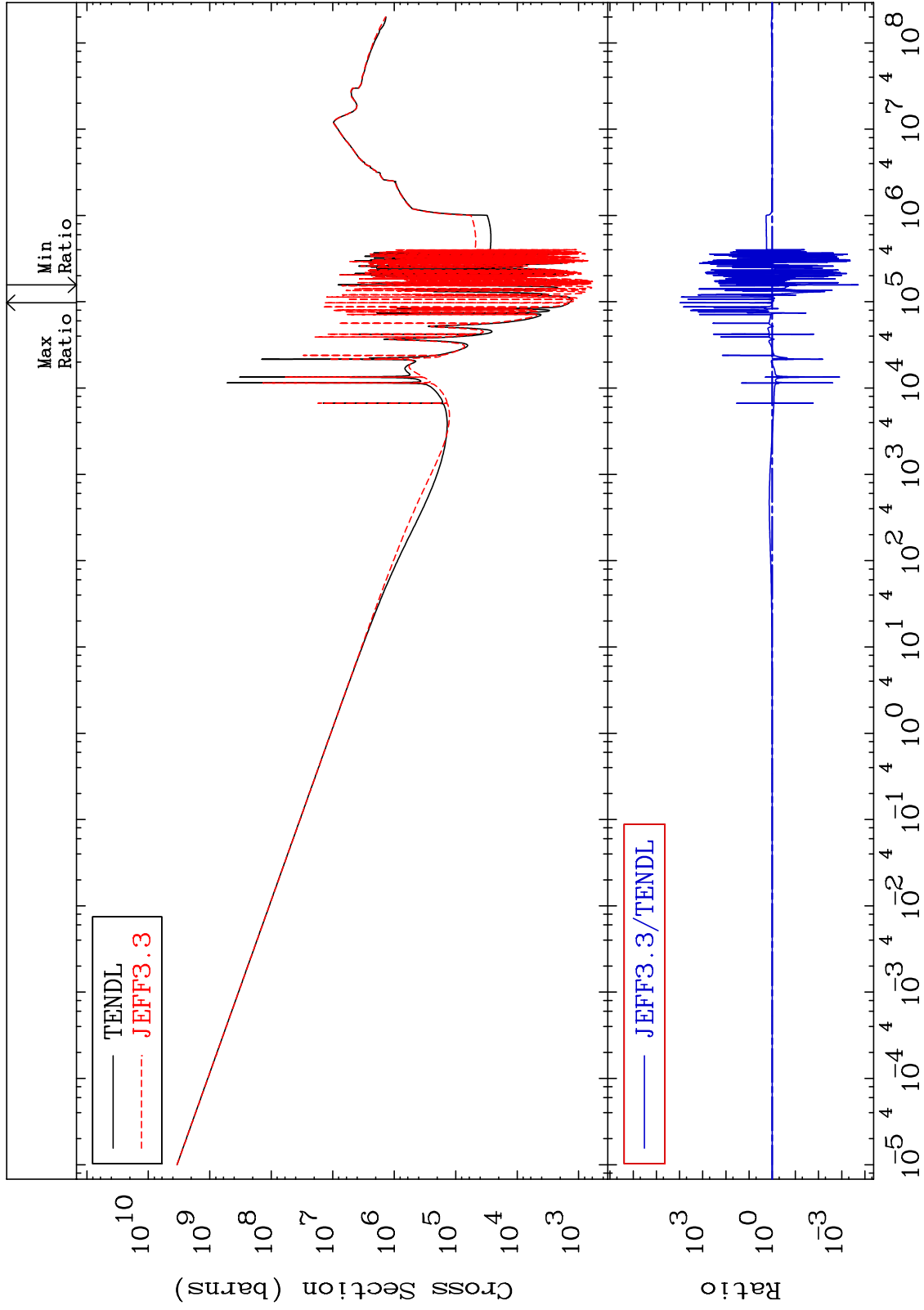
Incident Energy (eV)

22-Ti-48

MAT 2231

Total photon (eV-barns)
Cross Section

22-Ti-48
-99.98 To 9999. %



70

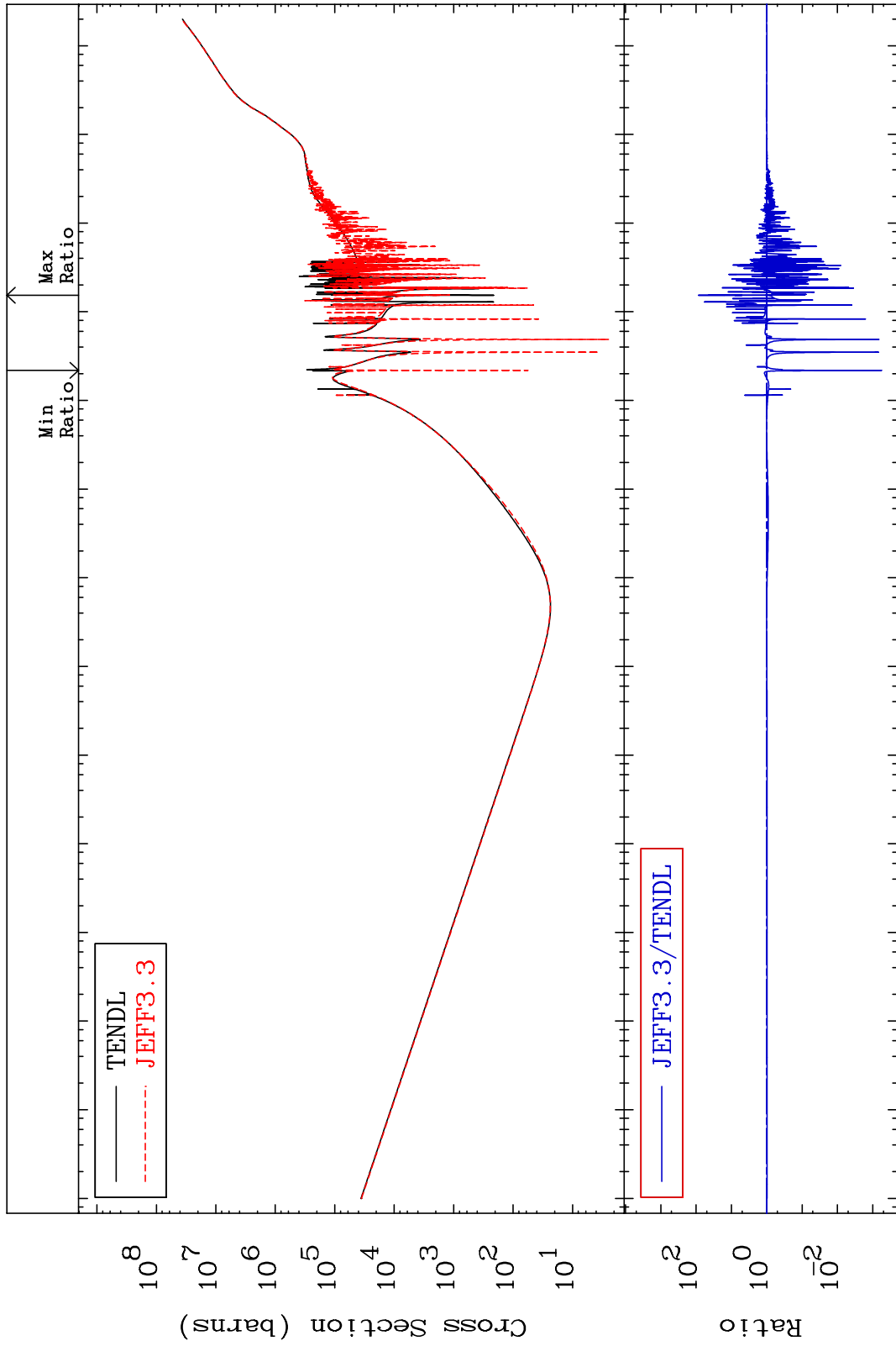
Incident Energy (eV)

22-Ti-48

MAT 2231

Total kinematic kerma (high limit)
Cross Section

22-Ti-48
-99.94 To 8563. %



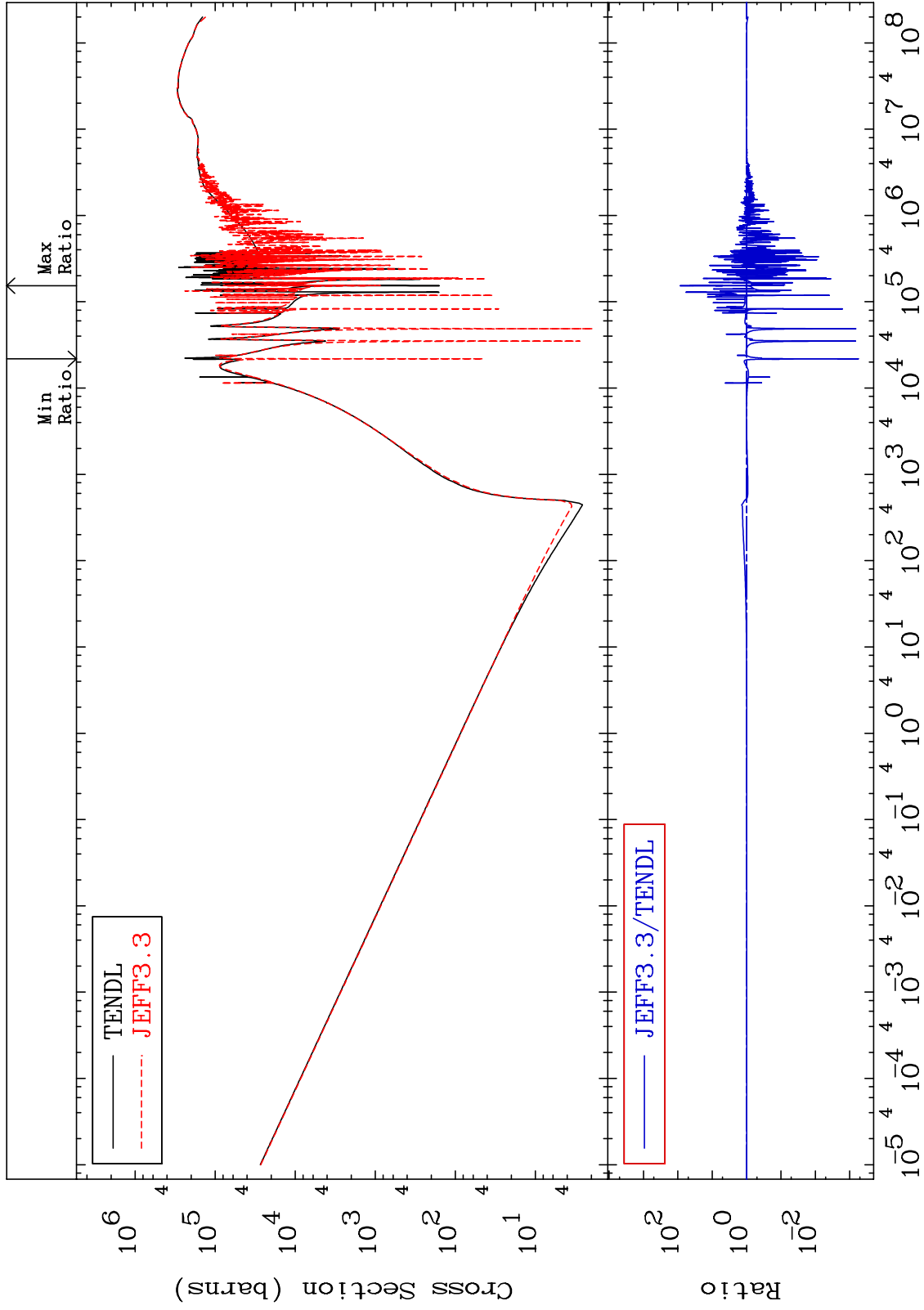
71

22-Ti-48

MAT 2231

Dpa total (eV-barns)
Cross Section

22-Ti-48
-99.94 To 8564. %



72

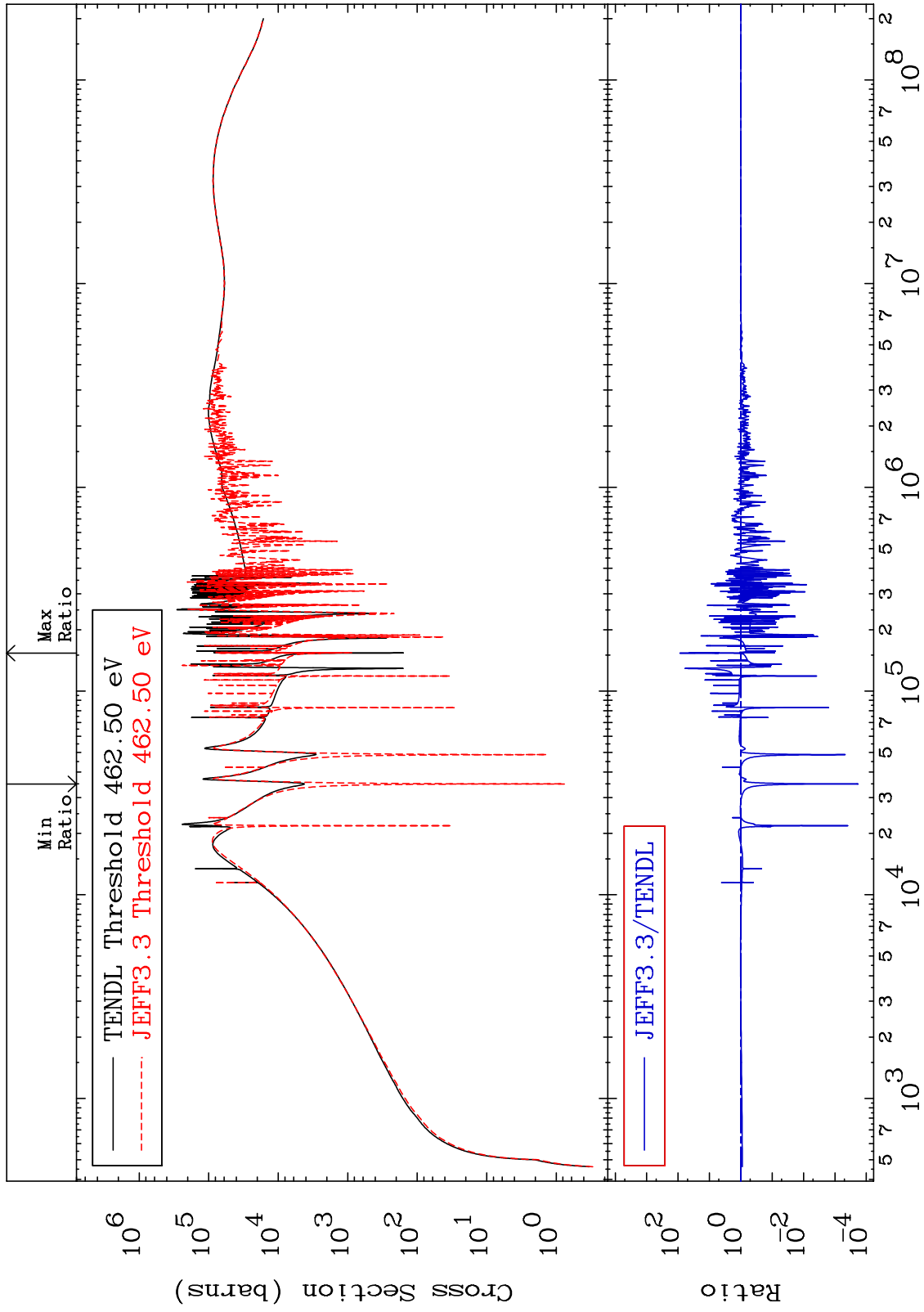
Incident Energy (eV)

22-Ti-48

MAT 2231

Dpa elastic (mt2)
Cross Section

22-Ti-48
-99.98 To 8560. %



73

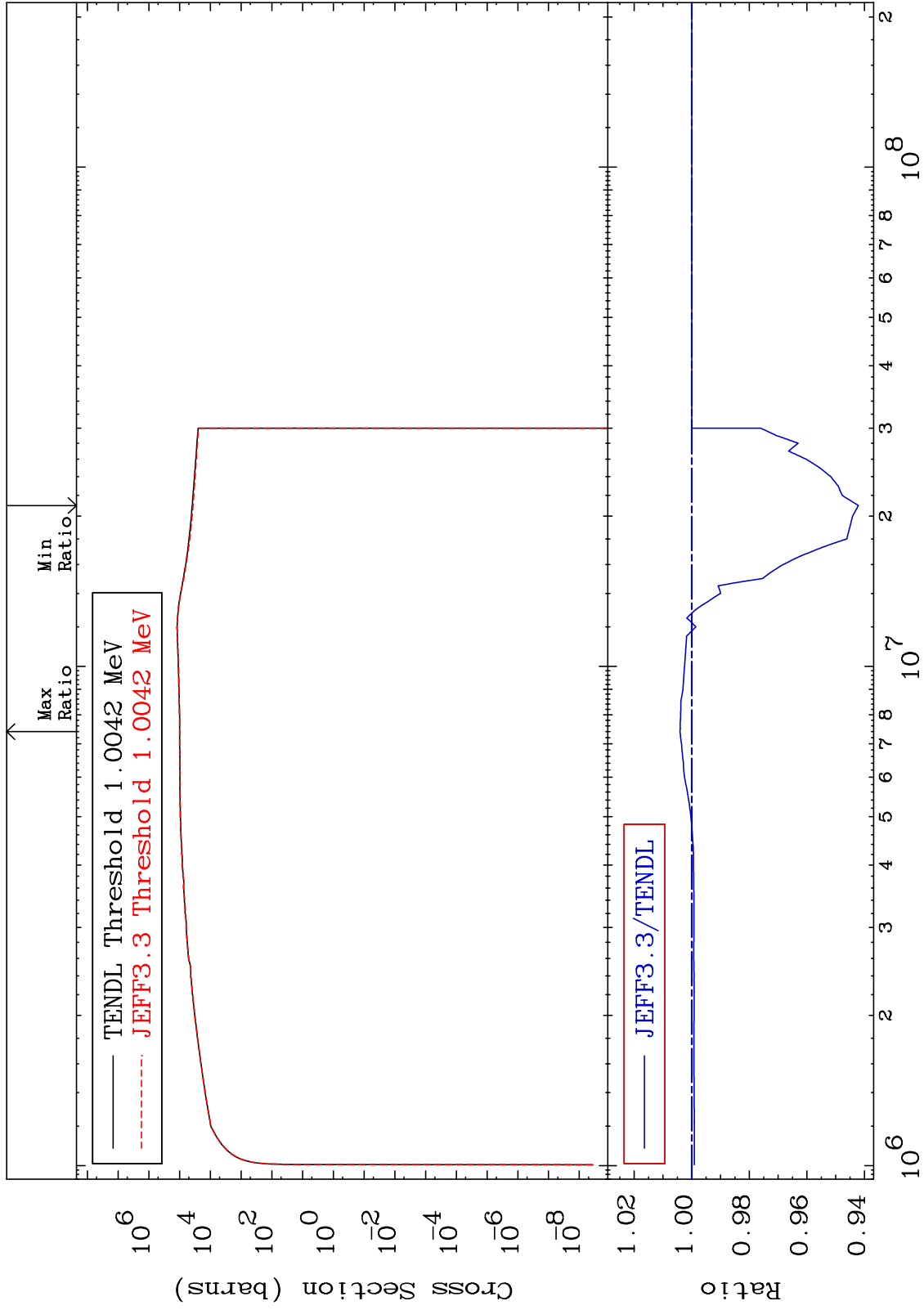
Incident Energy (eV)

22-Ti-48

MAT 2231

Dpa inelastic (mt51-91)
Cross Section

22-Ti-48
-5.787 To 0.405 %



74

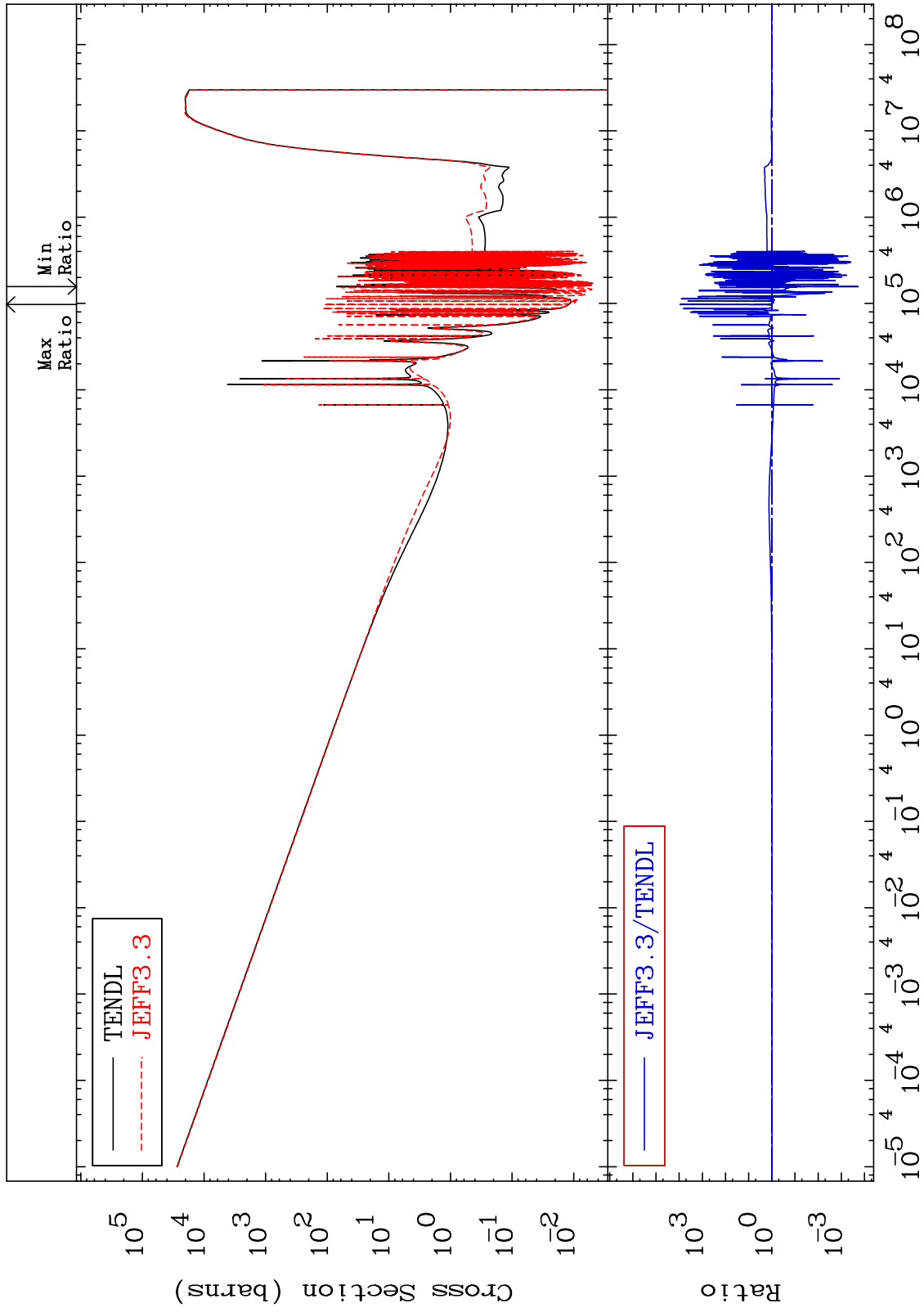
Incident Energy (eV)

22-Ti-48

MAT 2231

Dpa disappearance (mt102 -120)
Cross Section

22-Ti-48
-99.98 To 9999. %



75

Incident Energy (eV)

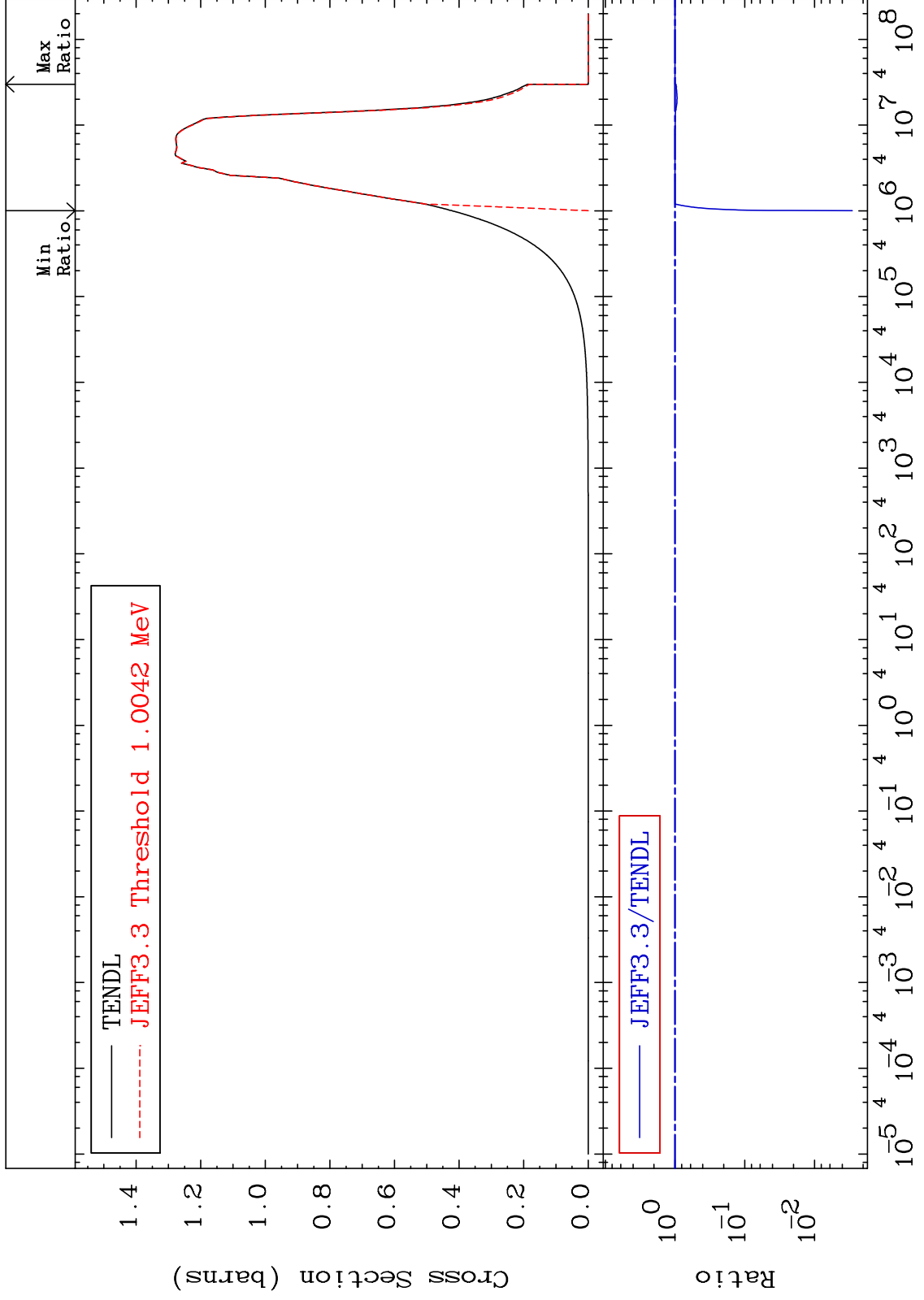
22-Ti-48

MAT 2231

Inelastic:22-Ti-48g

22-Ti-48

Radionuclide Production Cross Section -99.71 To 0.000 %



Incident Energy (eV)

22-Ti-48

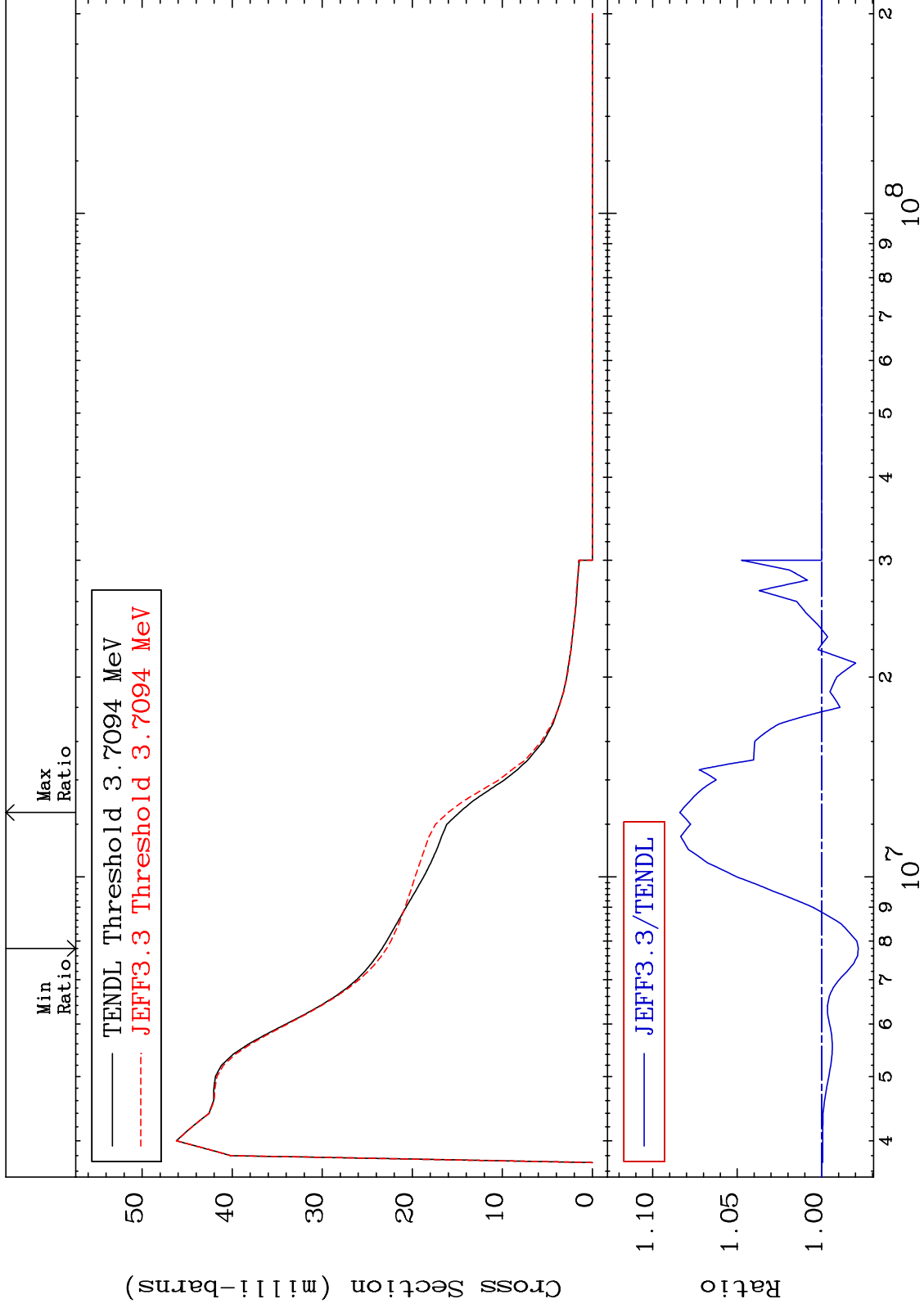
76

MAT 2231

Inelastic:22-Ti-48m14

22-Ti-48

Radionuclide Production Cross Section -2.167 To 8.400 %



77

Incident Energy (eV)

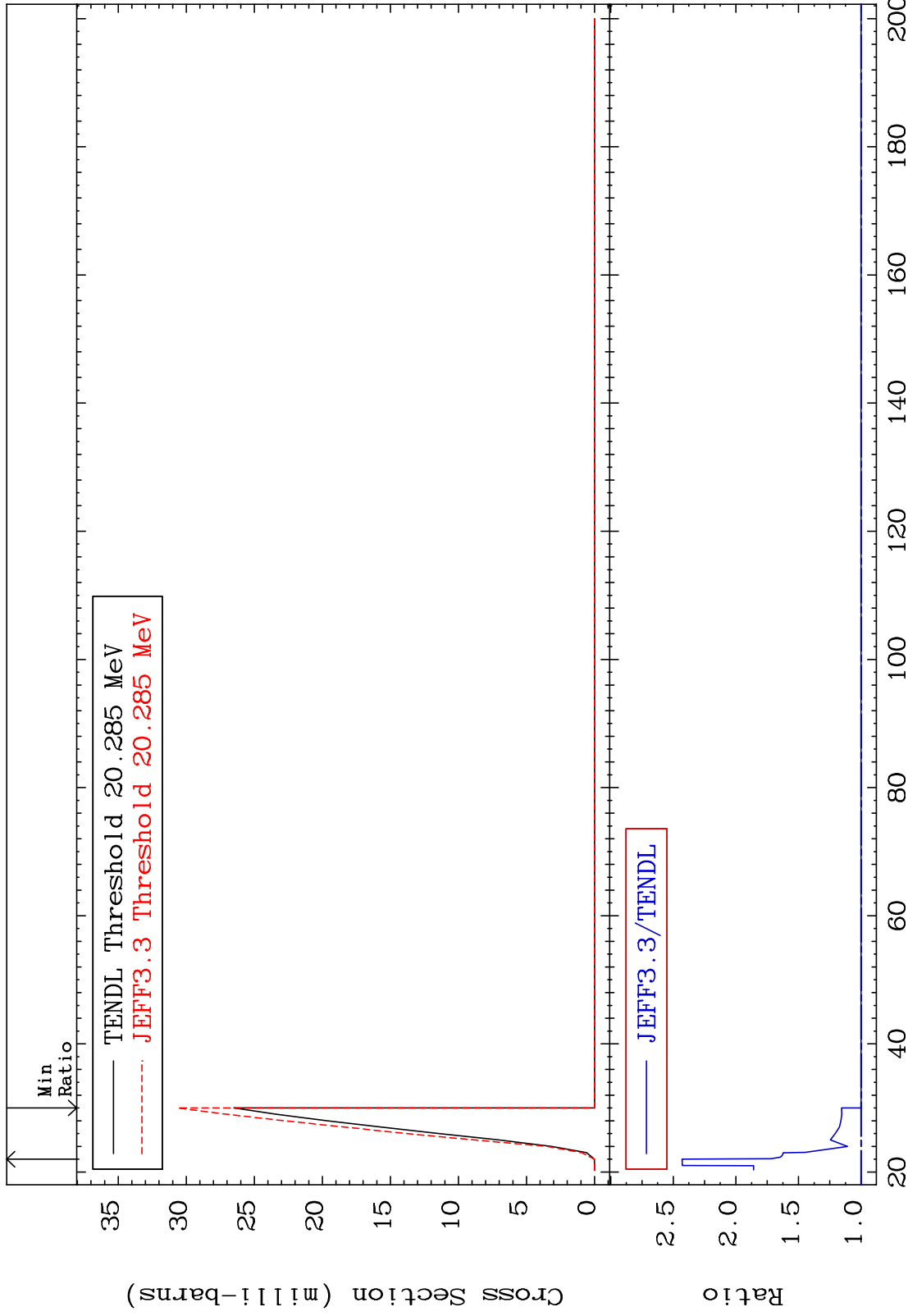
22-Ti-48

MAT 2231

(n, n') d:21-Sc-46g

22-Ti-48

Radionuclide Production Cross Section 0.000 To 142.9 %



22-Ti-48

Incident Energy (MeV)

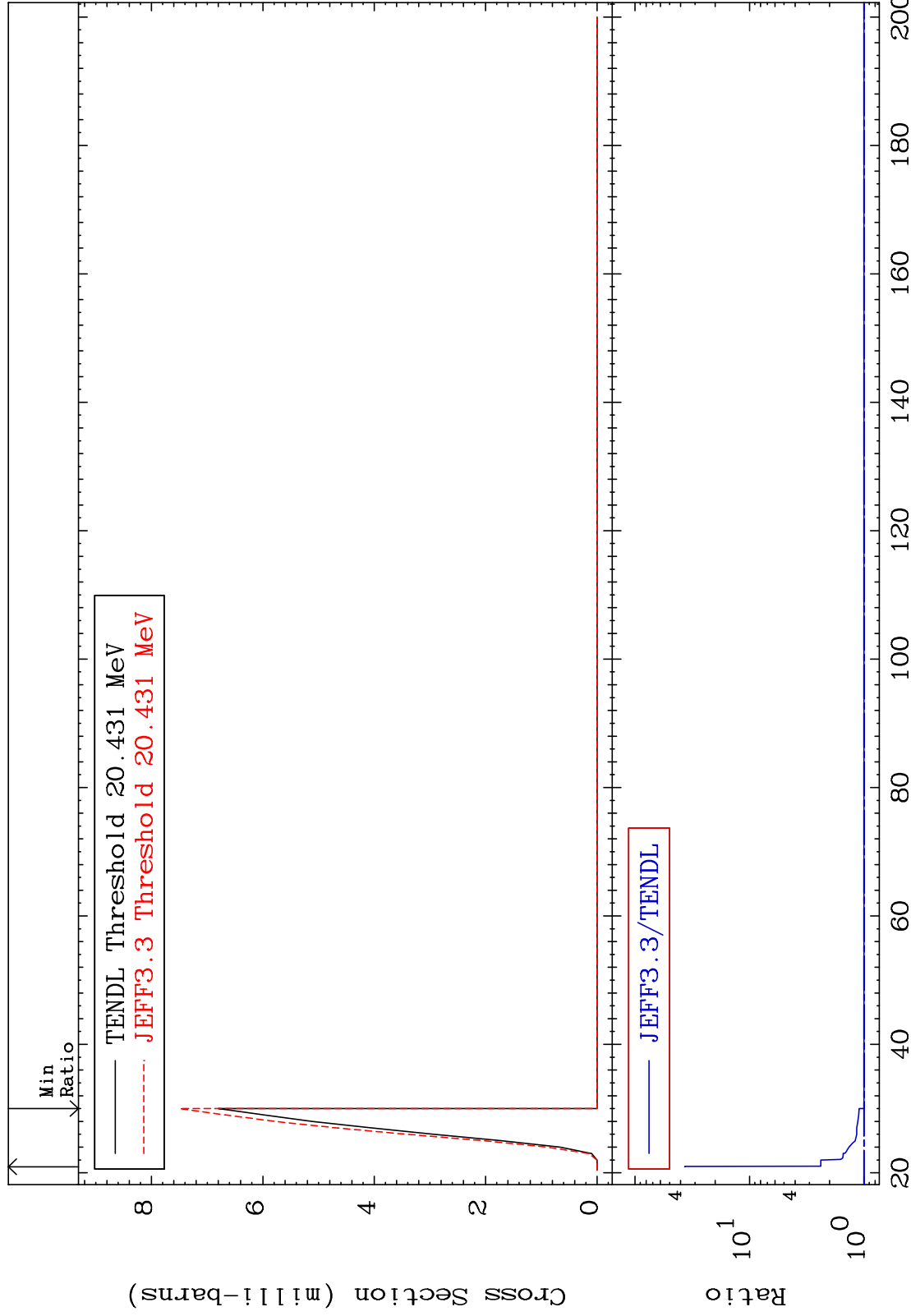
78

MAT 2231

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

22-Ti-48

Radionuclide Production Cross Section 0.000 To 3578. %



79

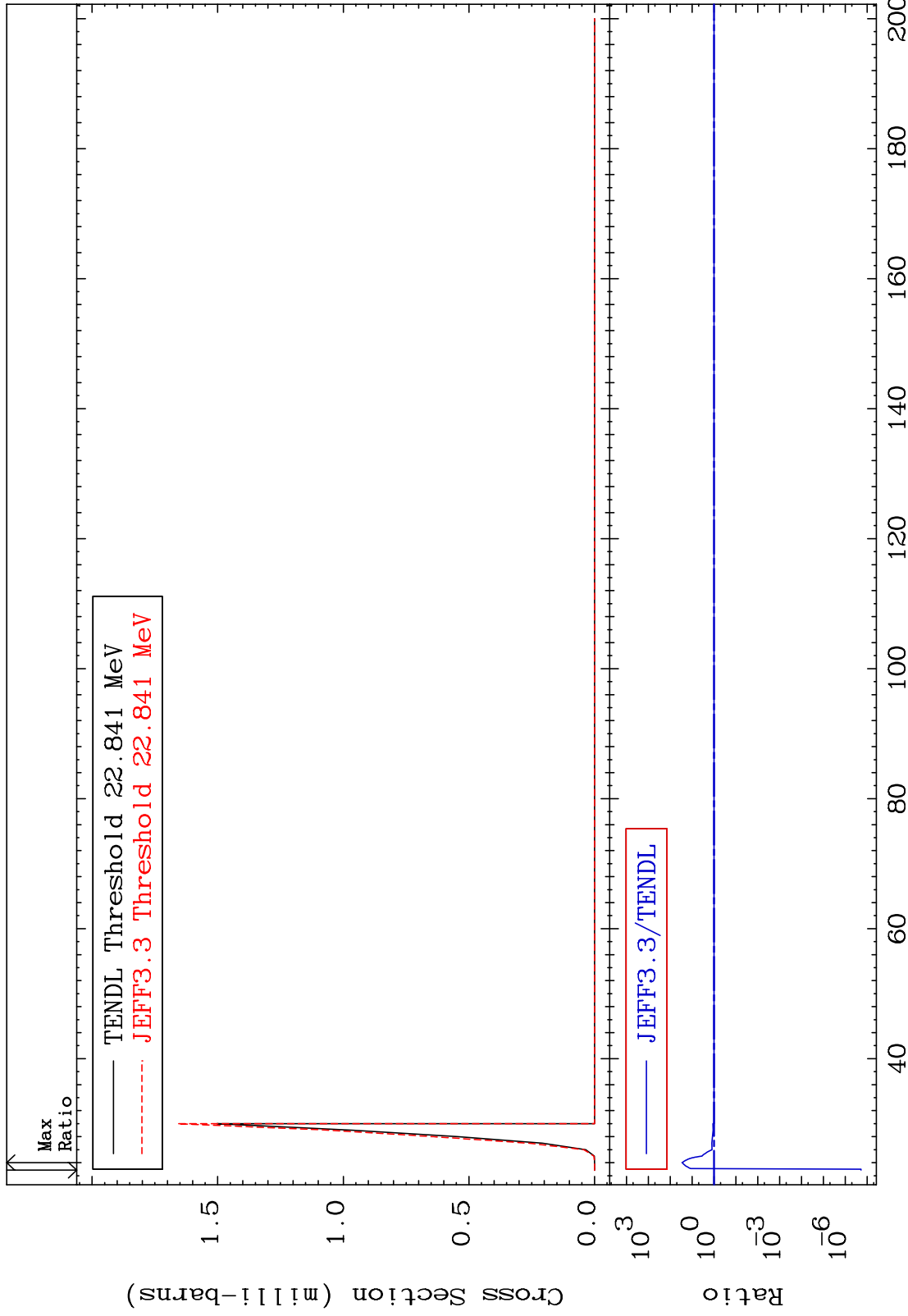
22-Ti-48

MAT 2231

(n, n') t:21-Sc-45g

22-Ti-48

Radionuclide Production Cross Section -100.0 To 2745. %



80

Incident Energy (MeV)

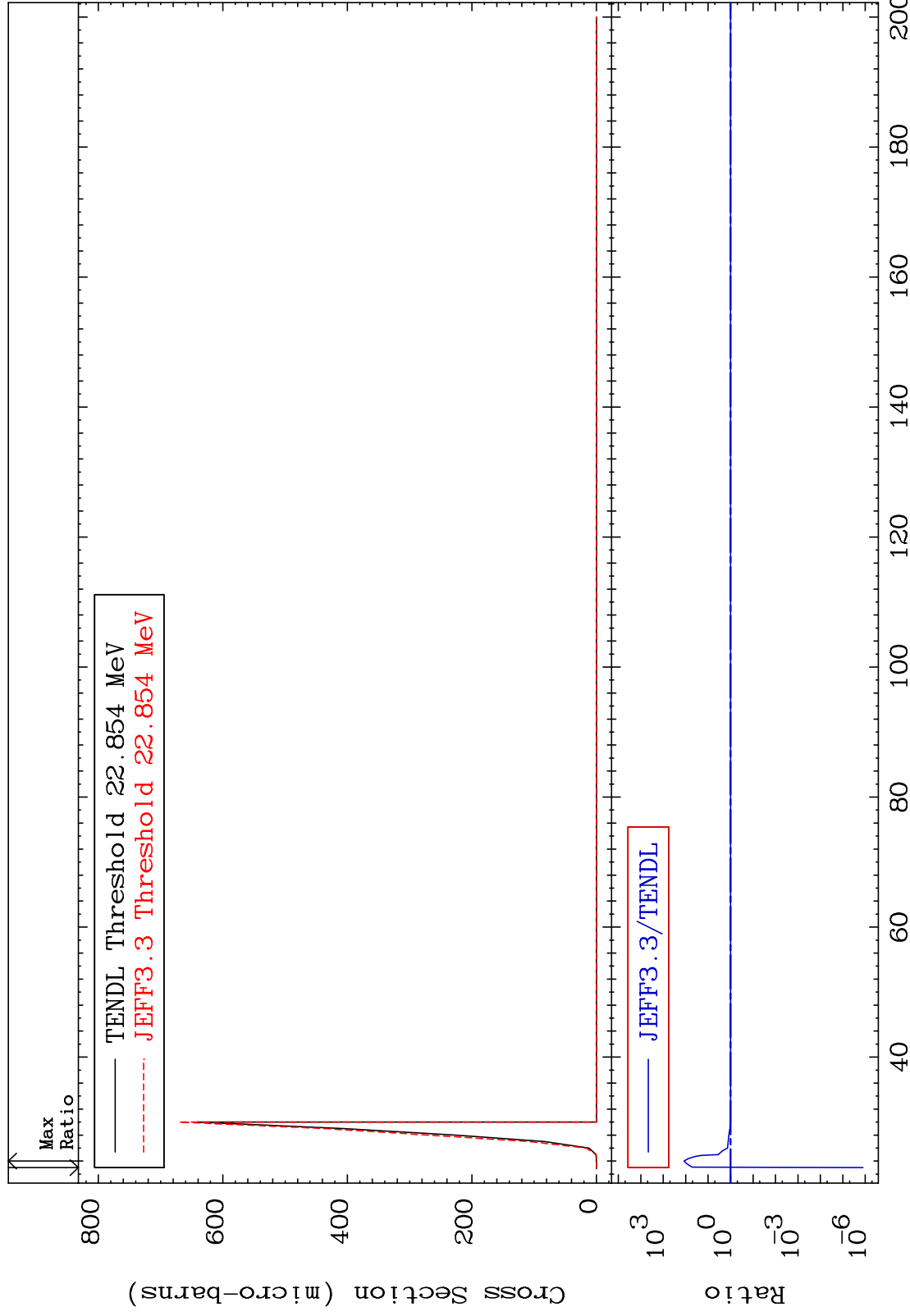
22-Ti-48

MAT 2231

(n, n') t:21-Sc-45m1

22-Ti-48

Radionuclide Production Cross Section -100.0 To 9999. %

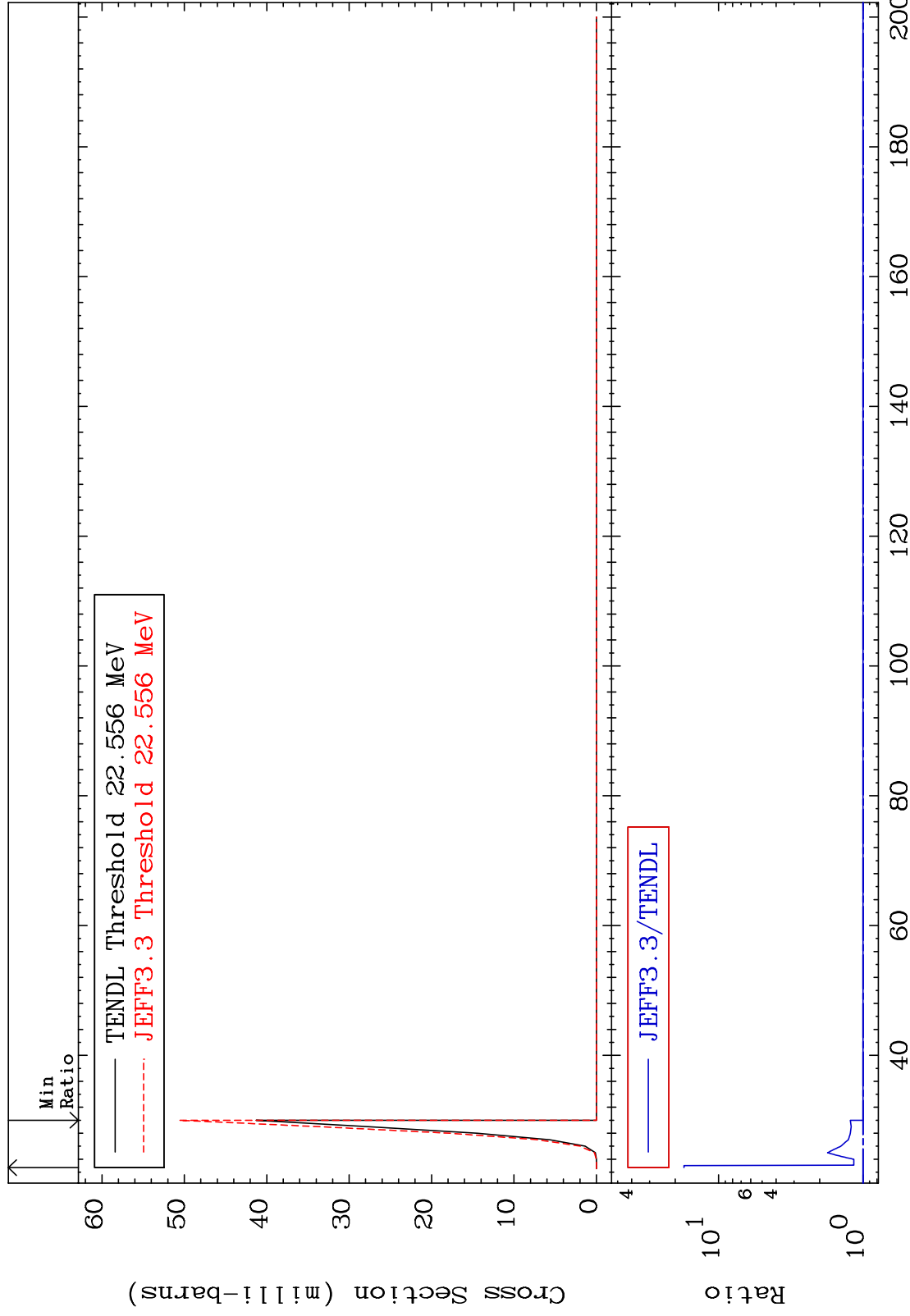


MAT 2231

(n,2n) p:21-Sc-46g

22-Ti-48

Radionuclide Production Cross Section 0.000 To 1635. %



82

Incident Energy (MeV)

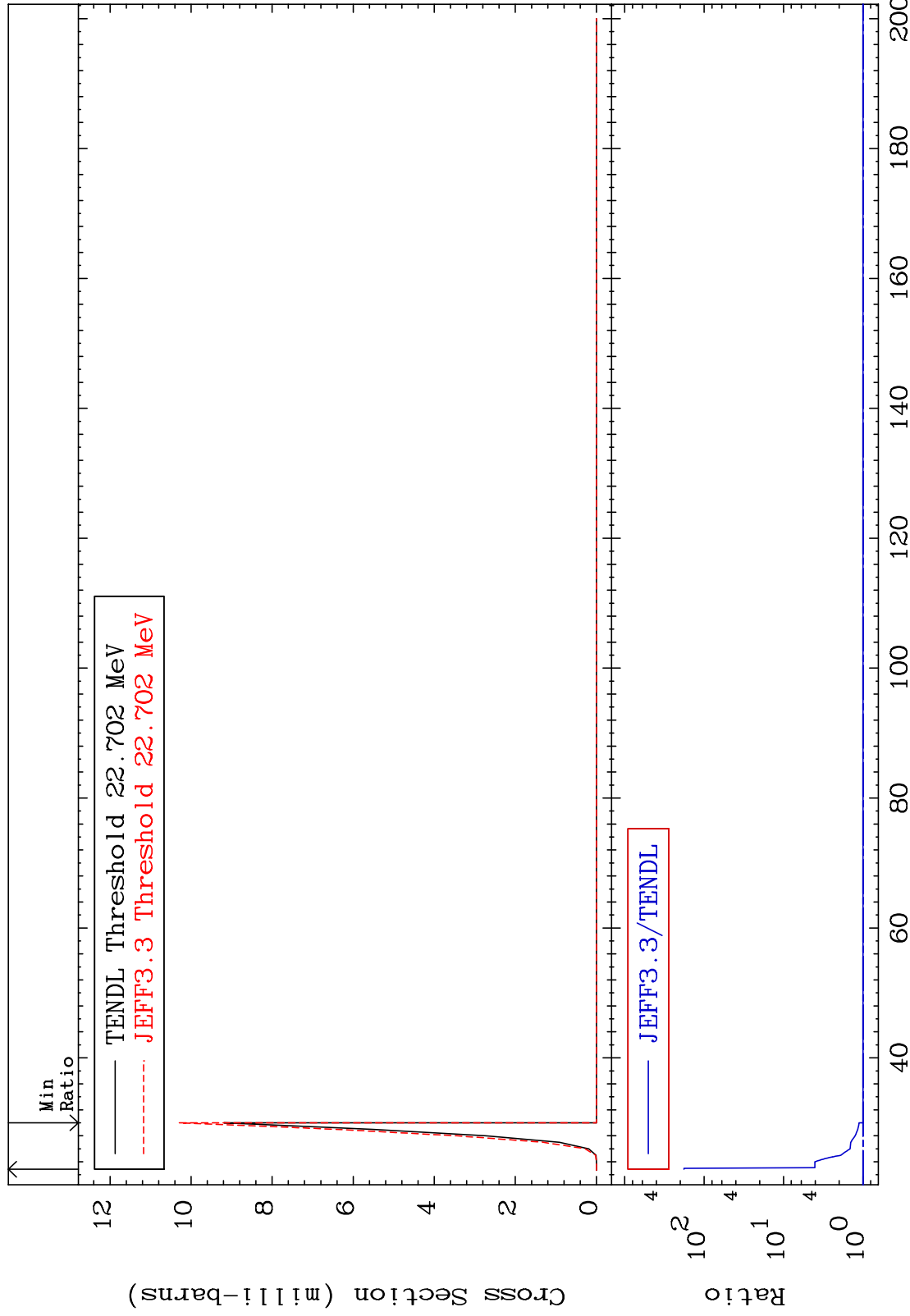
22-Ti-48

MAT 2231

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

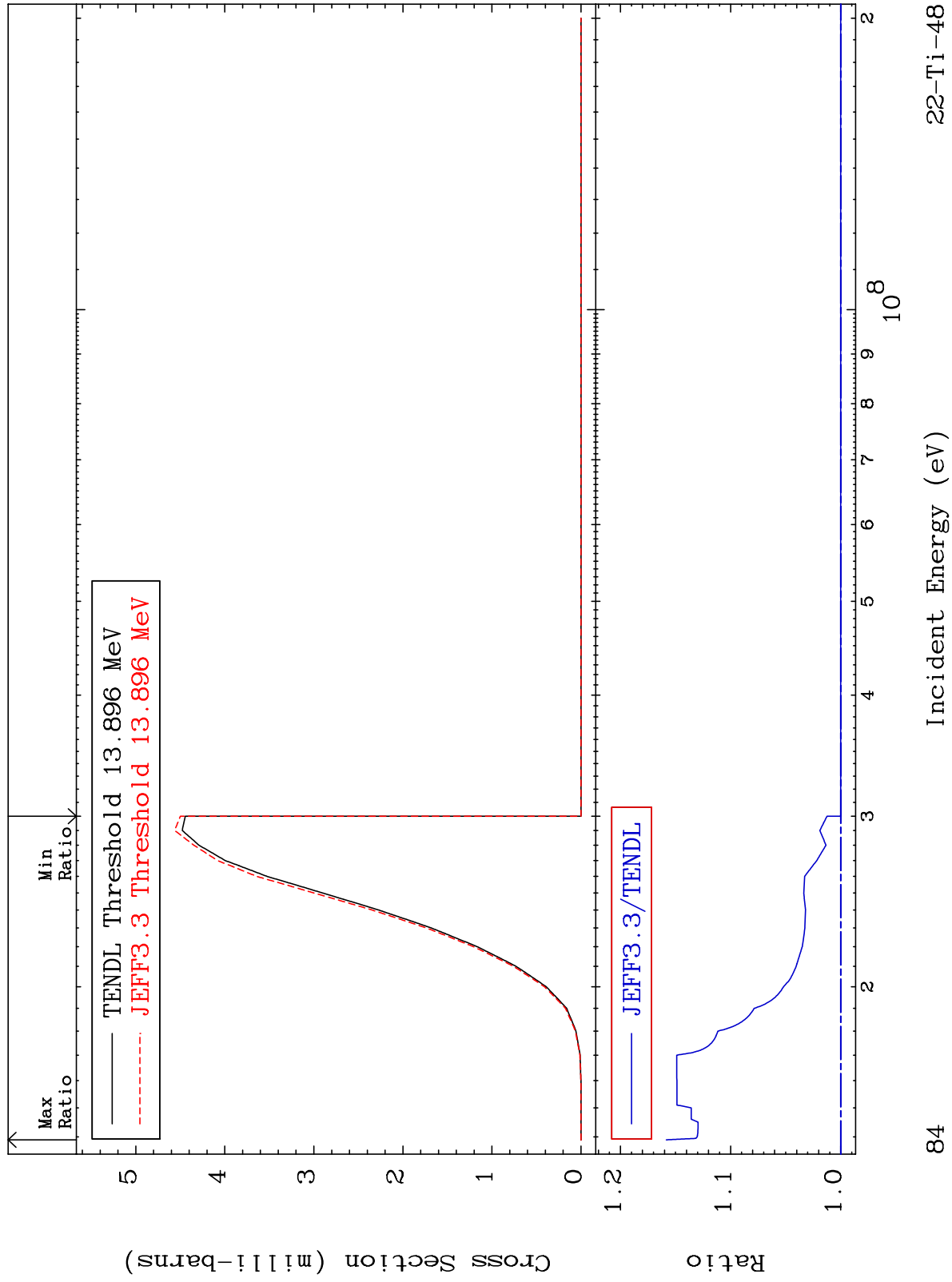
22-Ti-48

Radionuclide Production Cross Section 0.000 To 9999. %



MAT 2231

(n, t) : 21-Sc-46g 22-Ti-48
Radionuclide Production Cross Section 0.000 To 15.83 %



Radionuclide Production Cross Section -2.230 To 14.61 %

