

Program Complot
(Version 2018-1)

by

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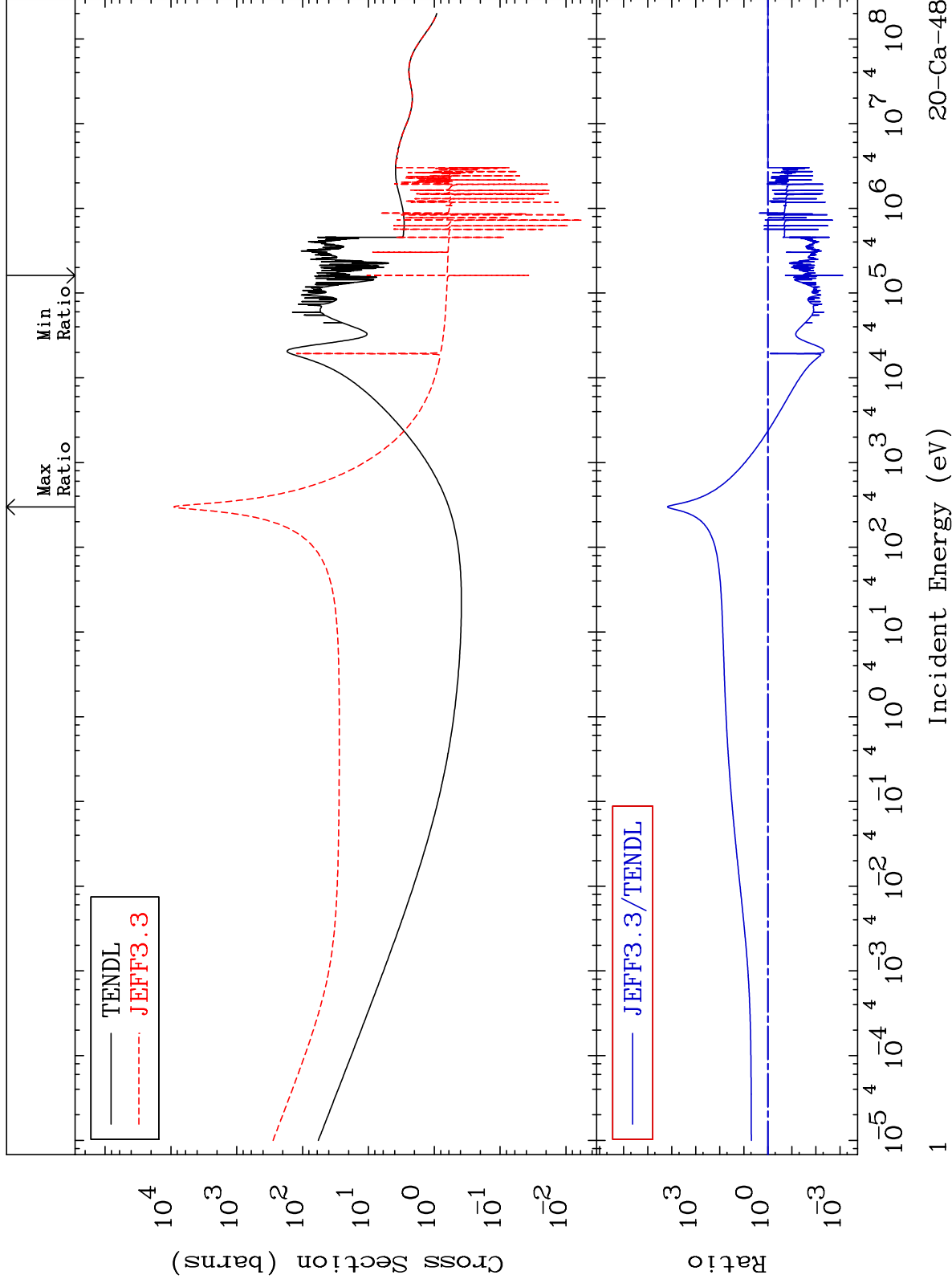
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 2049

Total
Cross Section

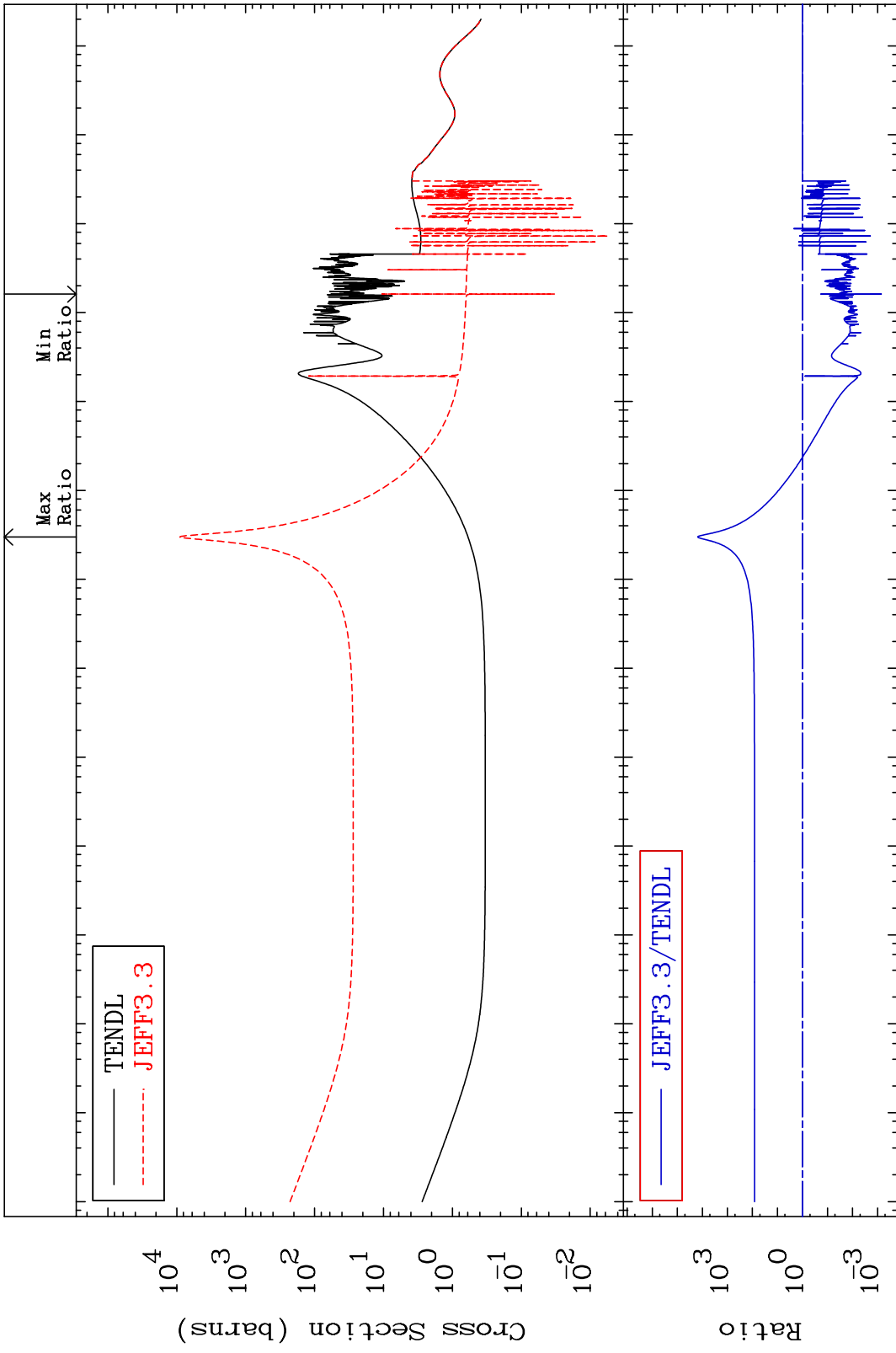
20-Ca-48
-99.92 To 9999. %



MAT 2049

Elastic
Cross Section

20-Ca-48
-99.93 To 9999. %



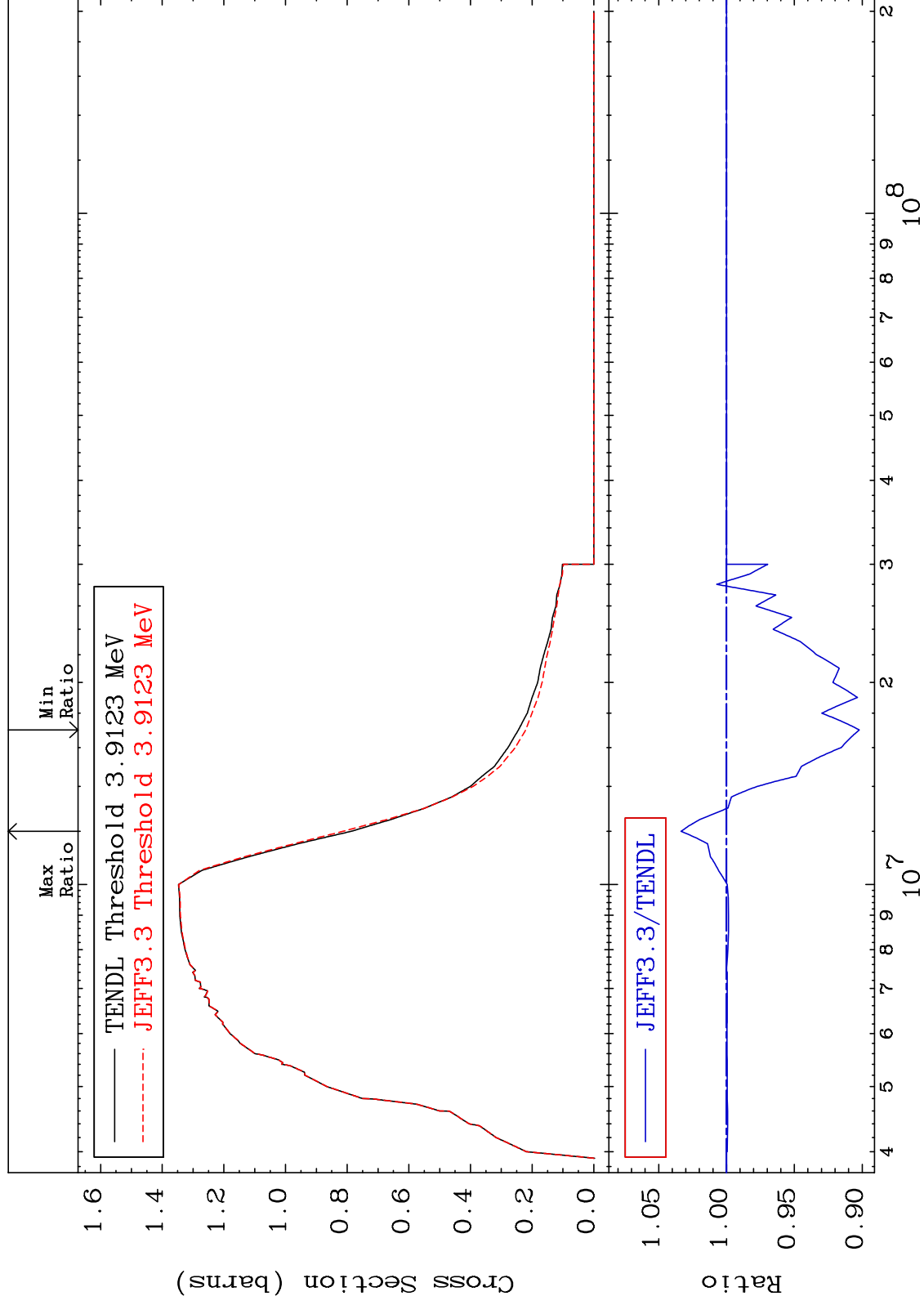
Incident Energy (eV)

20-Ca-48

MAT 2049

Inelastic
Cross Section

20-Ca-48
-9.786 To 3.349 %



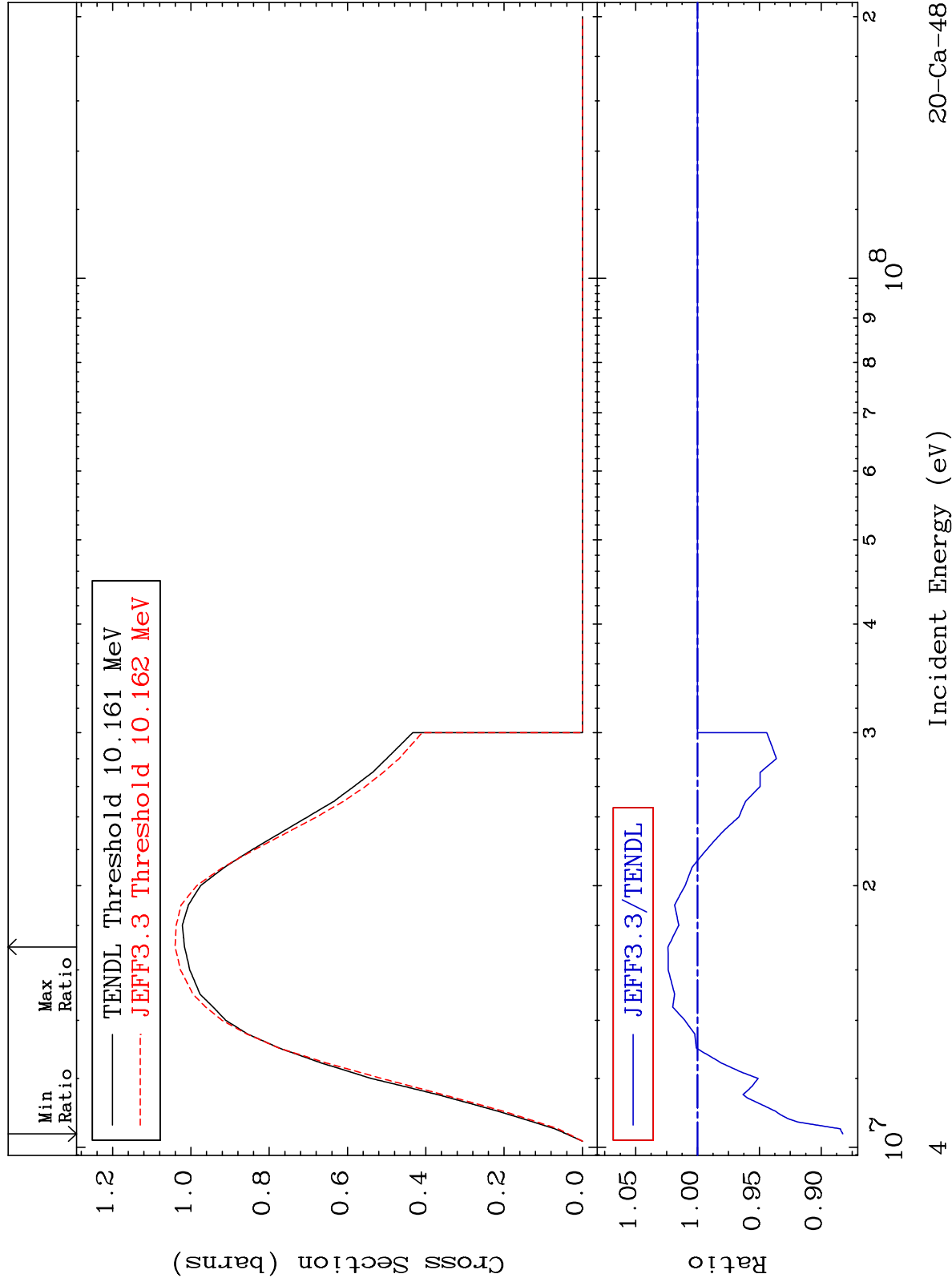
MAT 2049

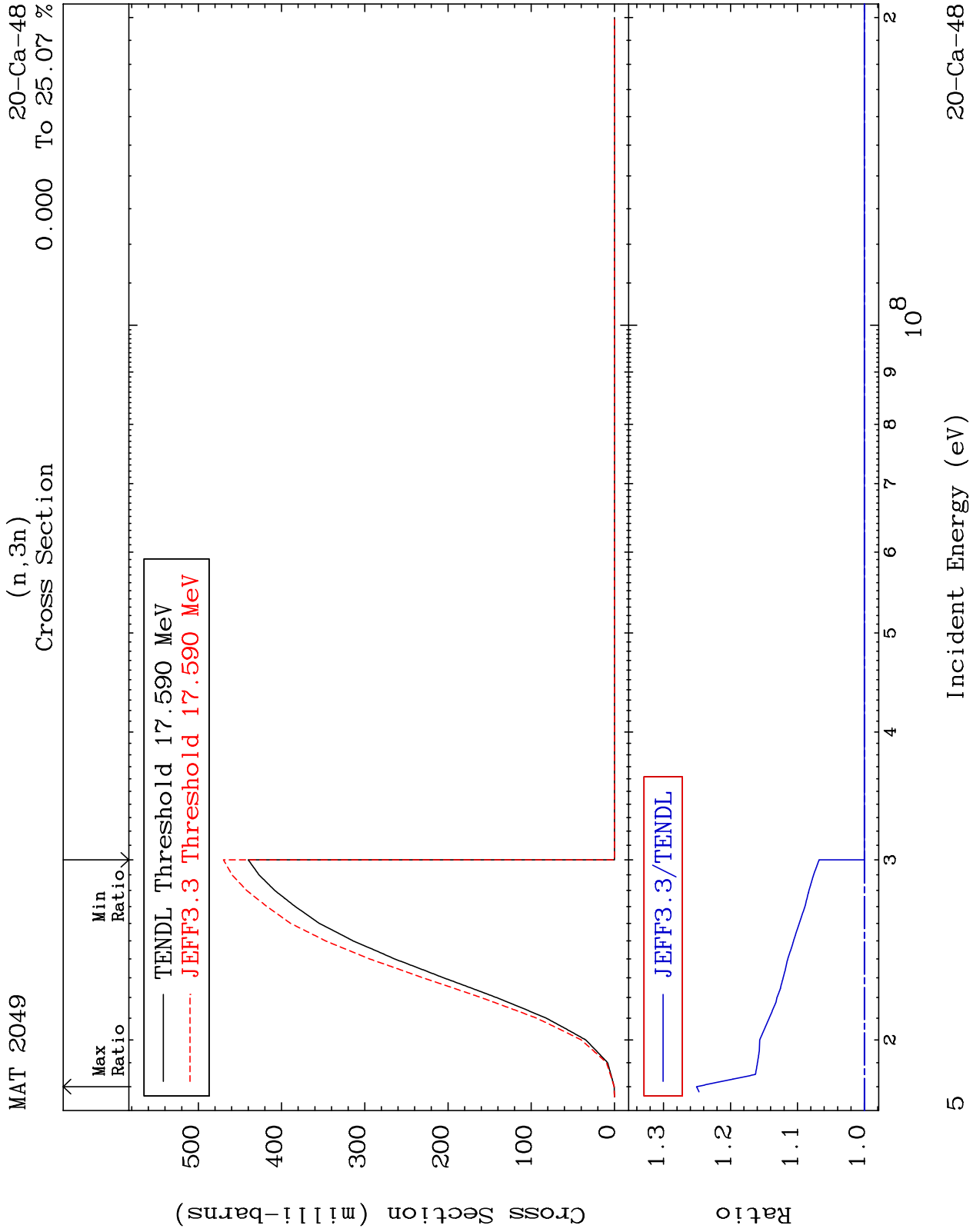
(n,2n)

20-Ca-48

Cross Section

-11.75 To 2.383 %





MAT 2049

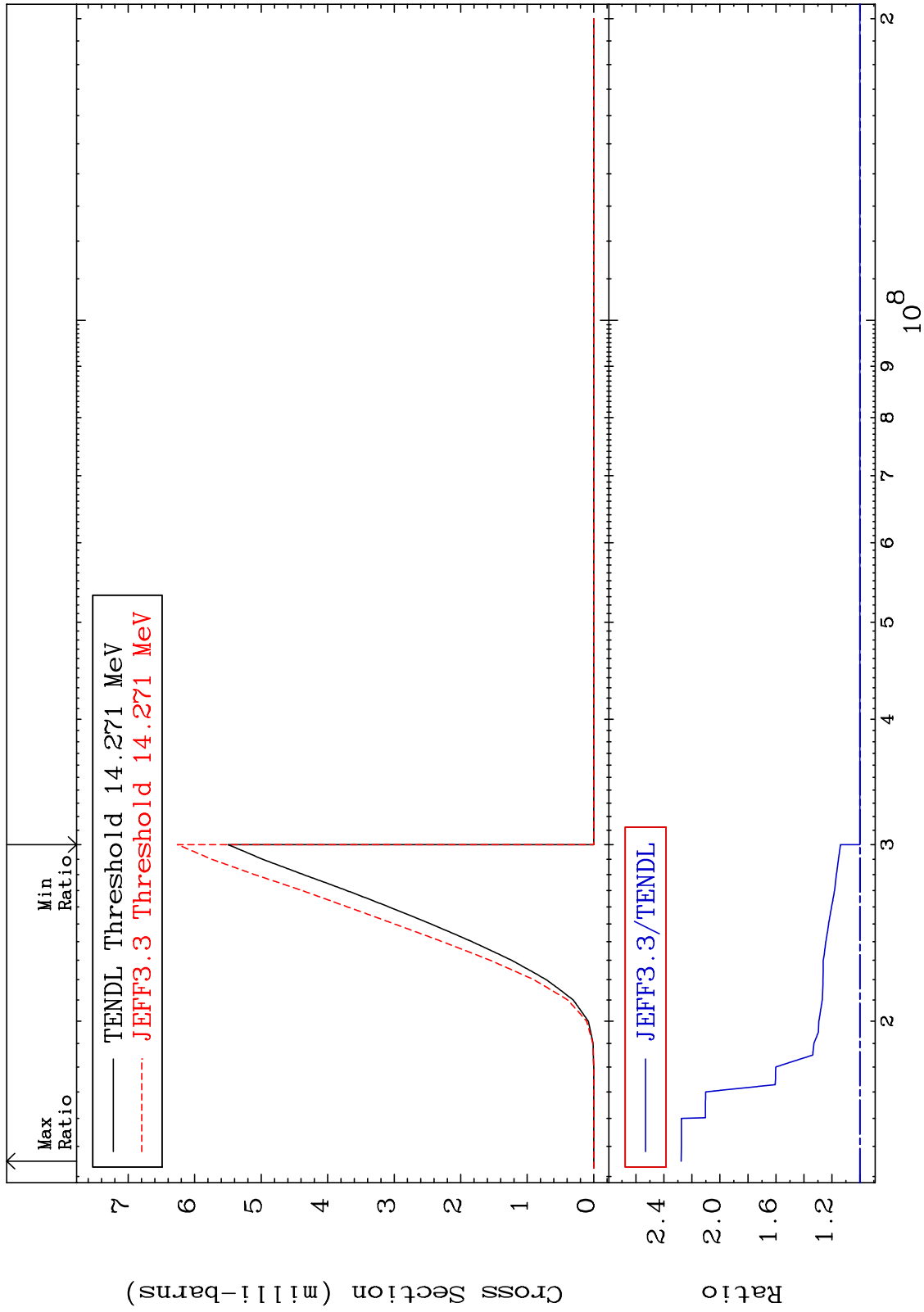
(n,n') α

20-Ca-48

Cross Section

0.000

To 127.6 %



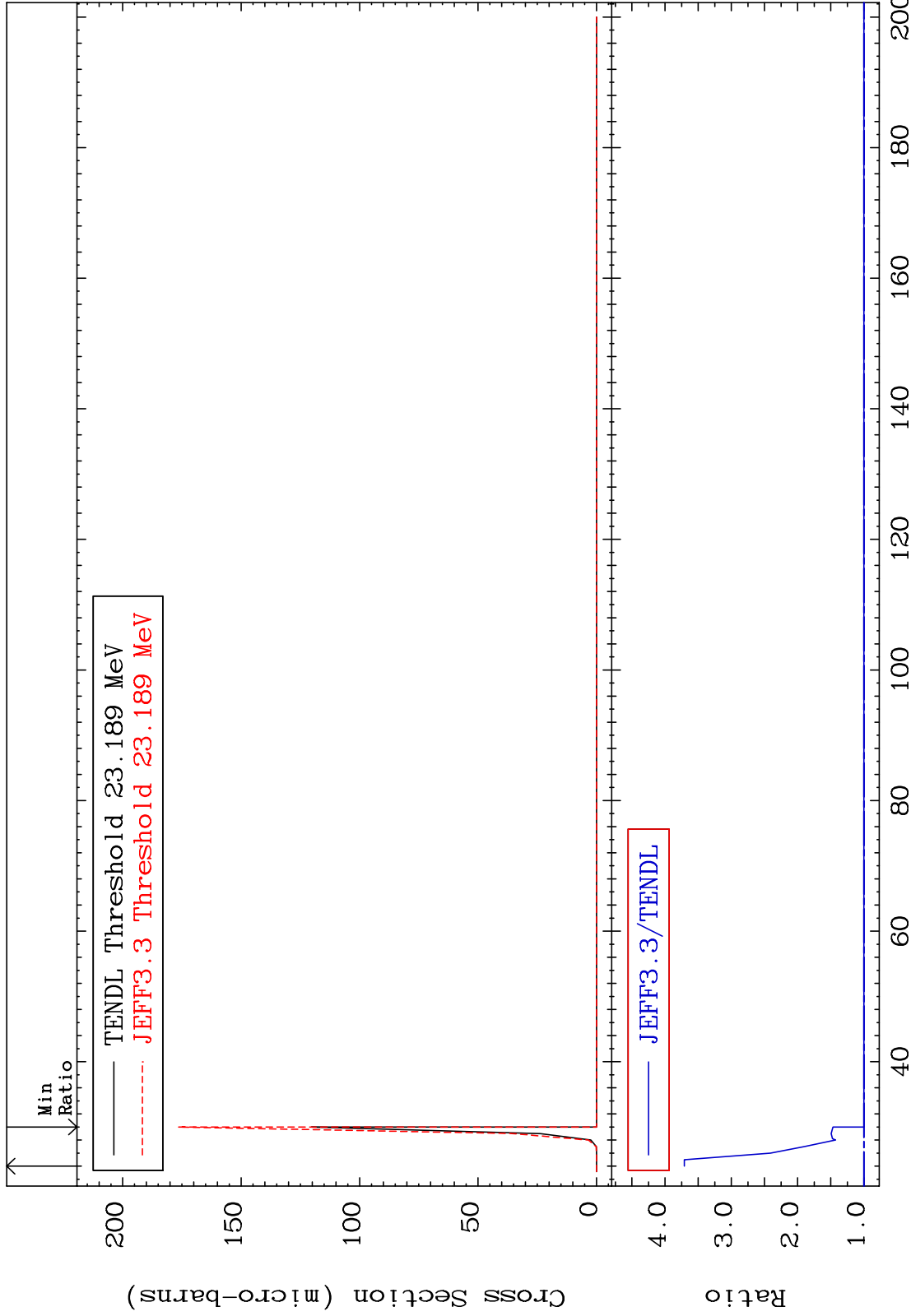
MAT 2049

(n,2n) α

20-Ca-48

Cross Section

0.000 To 270.9 %



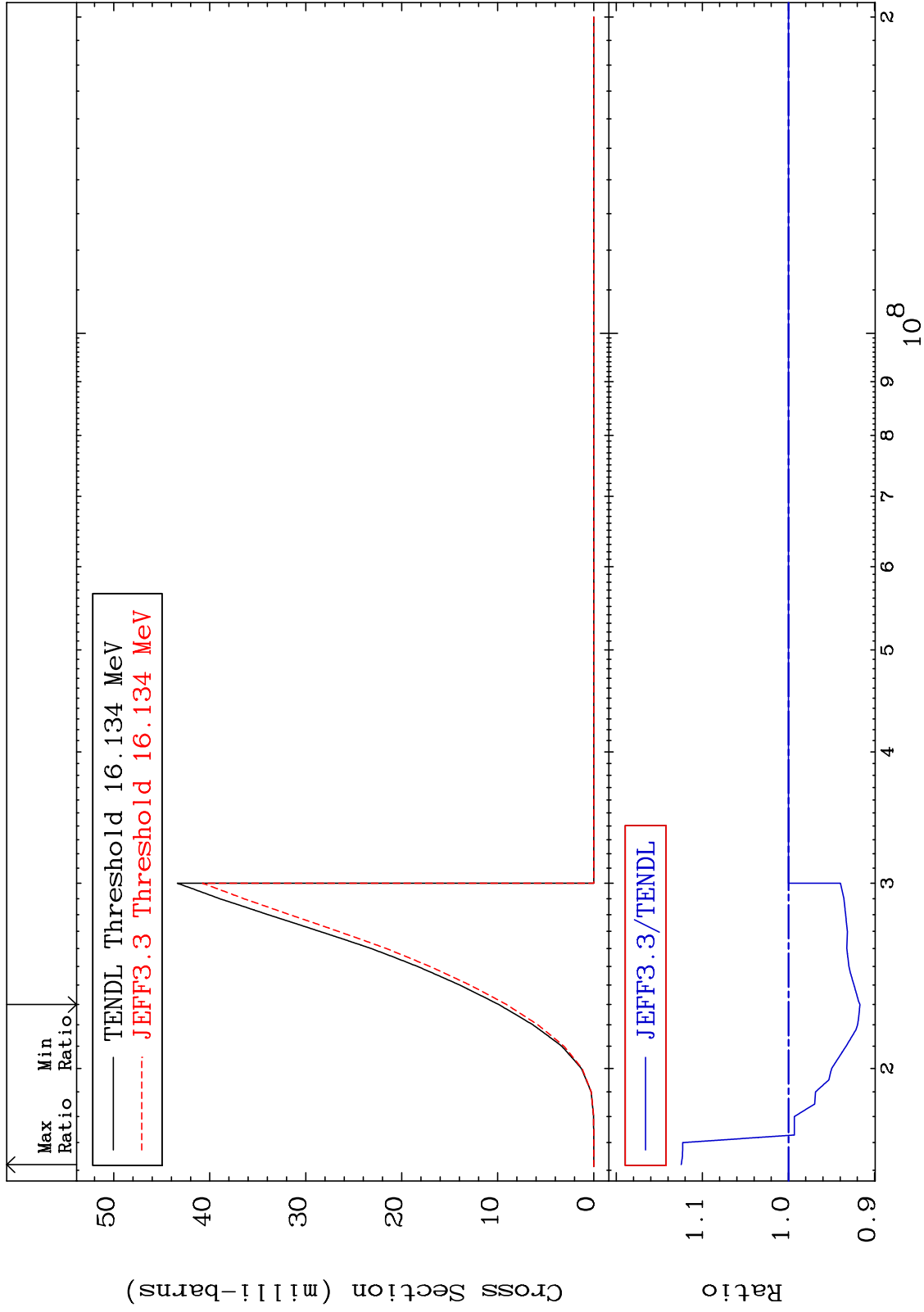
MAT 2049

(n,n') p

20-Ca-48

Cross Section

-8.300 To 12.46 %



8

Incident Energy (eV)

20-Ca-48

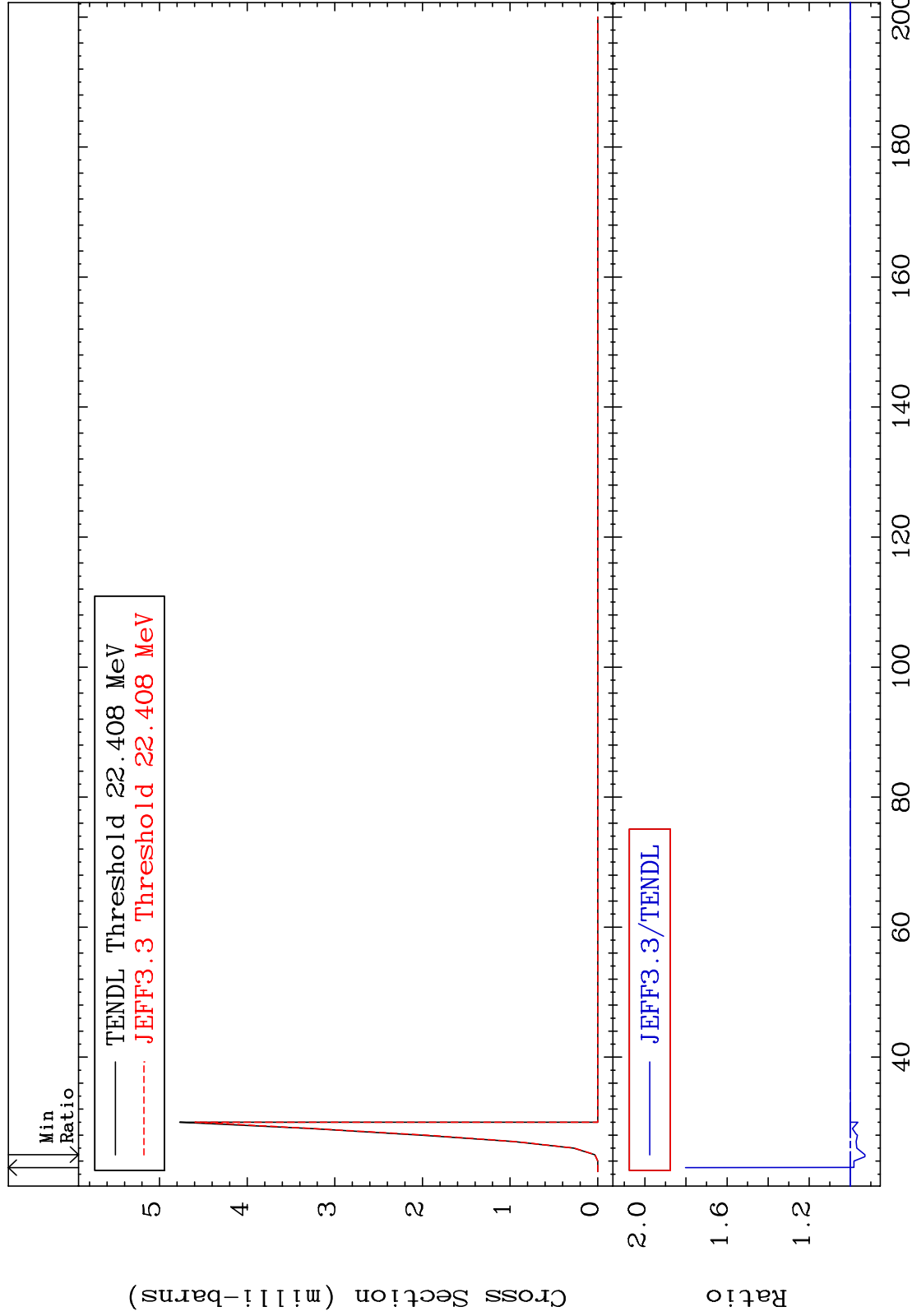
MAT 2049

(n, n') d

20-Ca-48

Cross Section

-7.099 To 80.20 %



MAT 2049

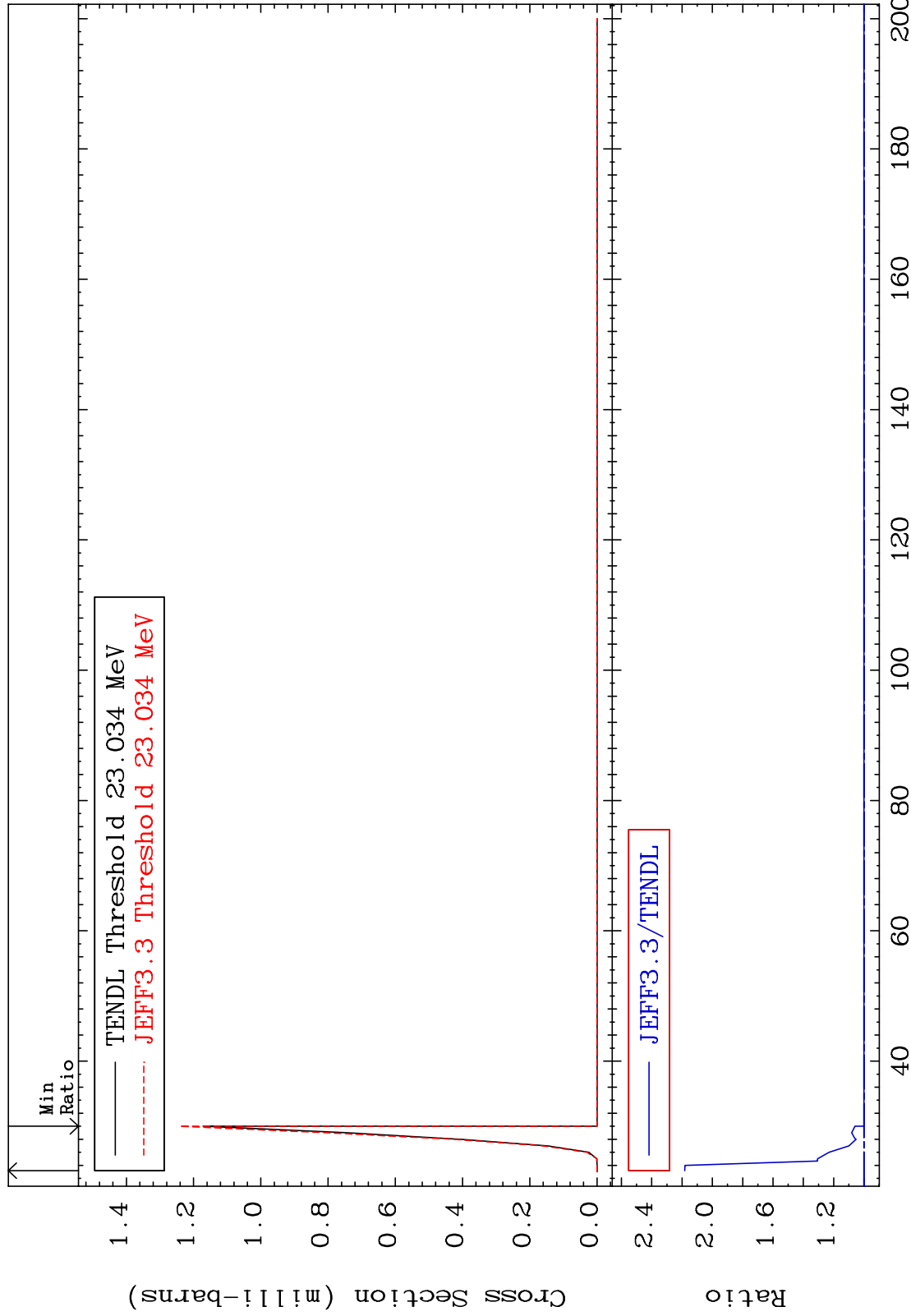
(n,n') t

20-Ca-48

Cross Section

0.000

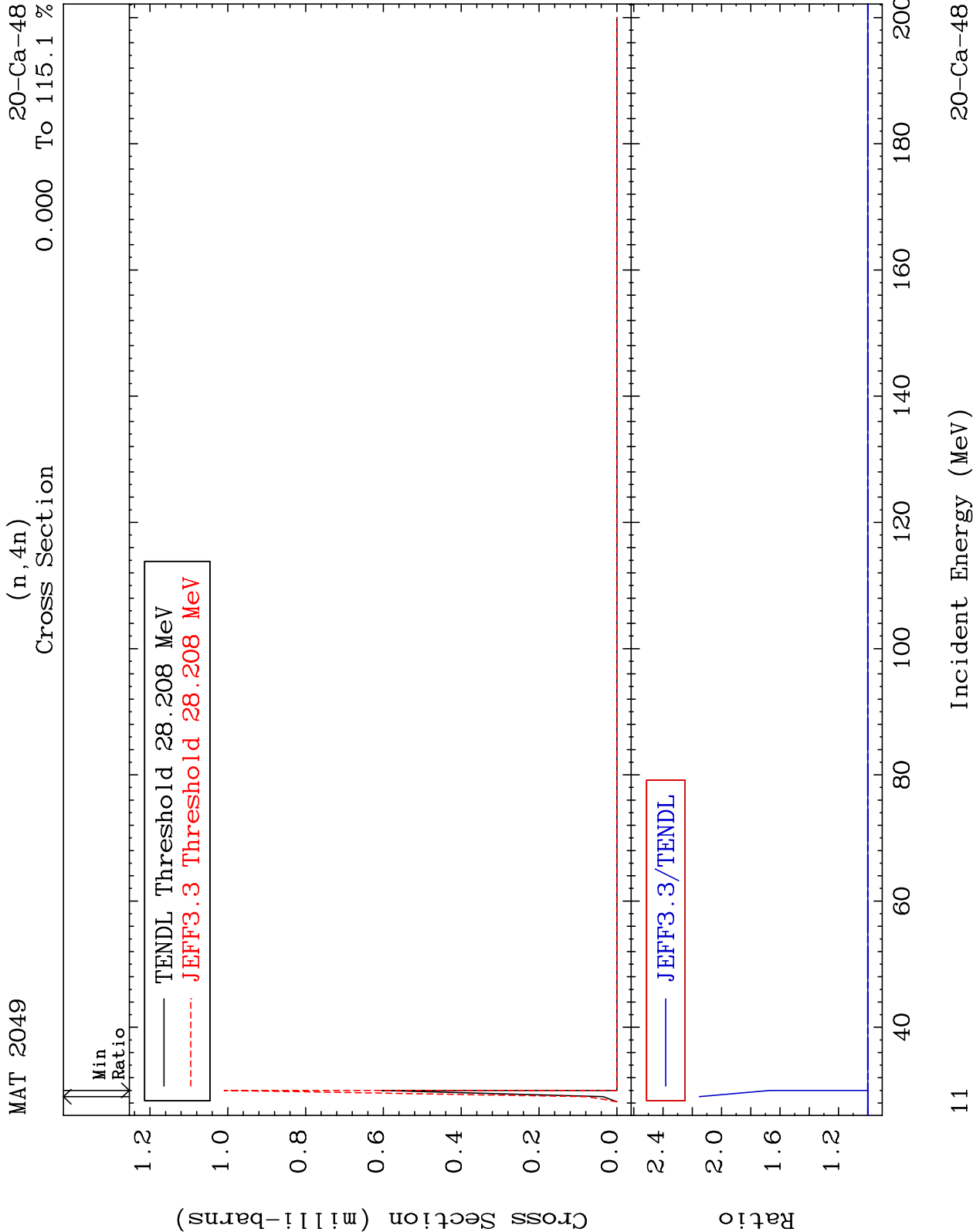
To 118.2 %



10

Incident Energy (MeV)

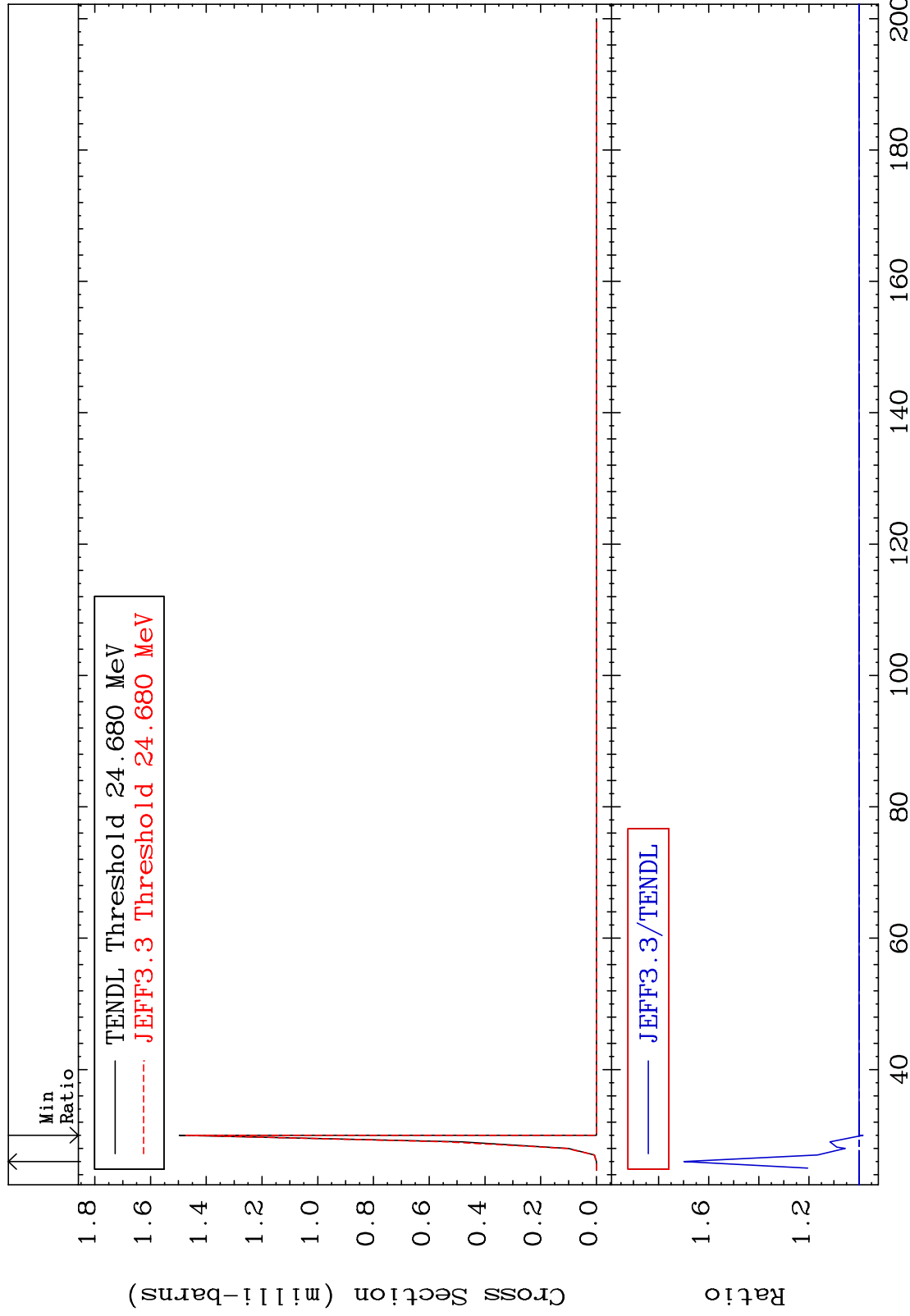
20-Ca-48



MAT 2049

(n,2n) p
Cross Section

20-Ca-48
-1.595 To 69.84 %



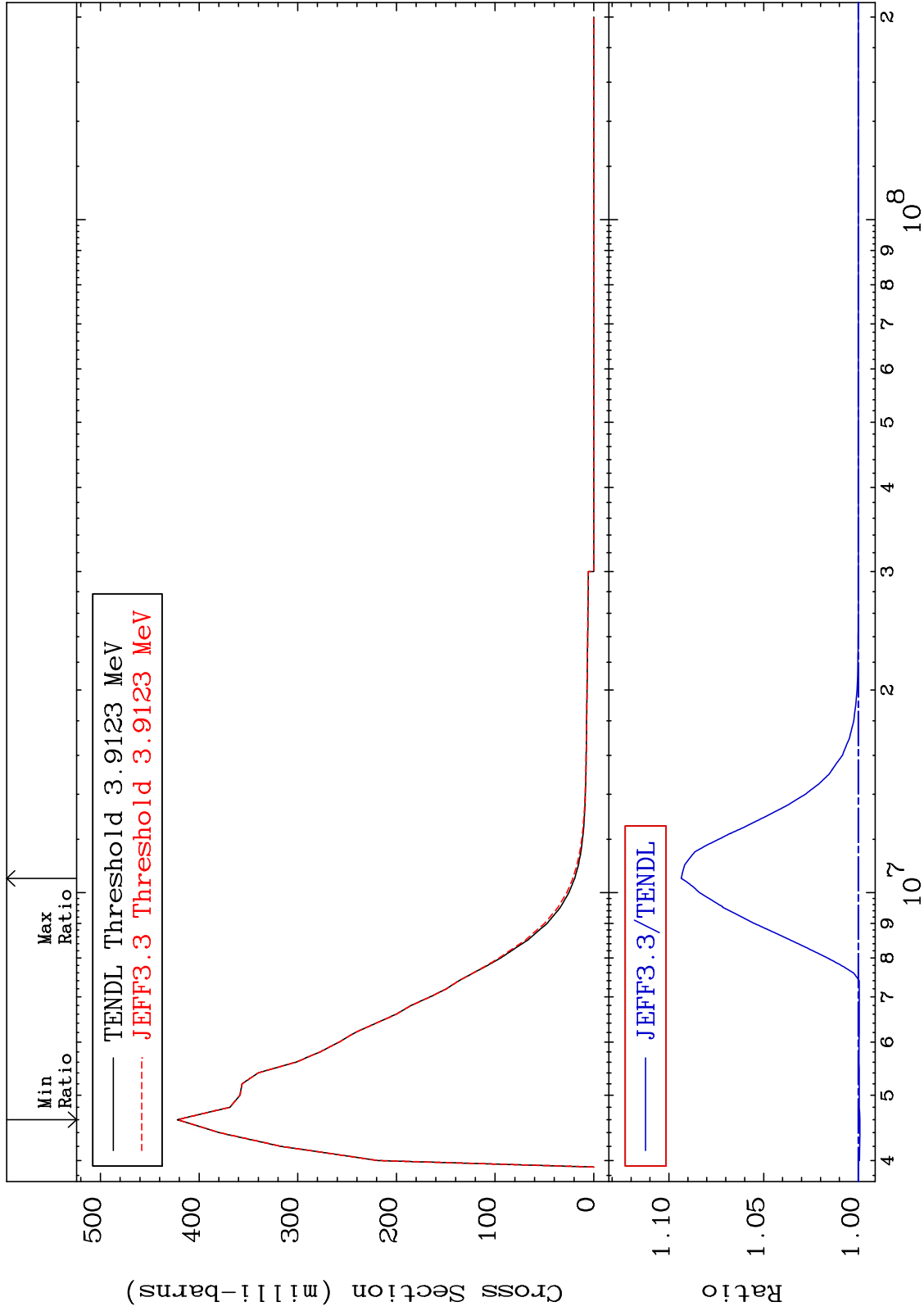
20-Ca-48

Incident Energy (MeV)

MAT 2049

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

20-Ca-48
-0.082 To 9.351 %

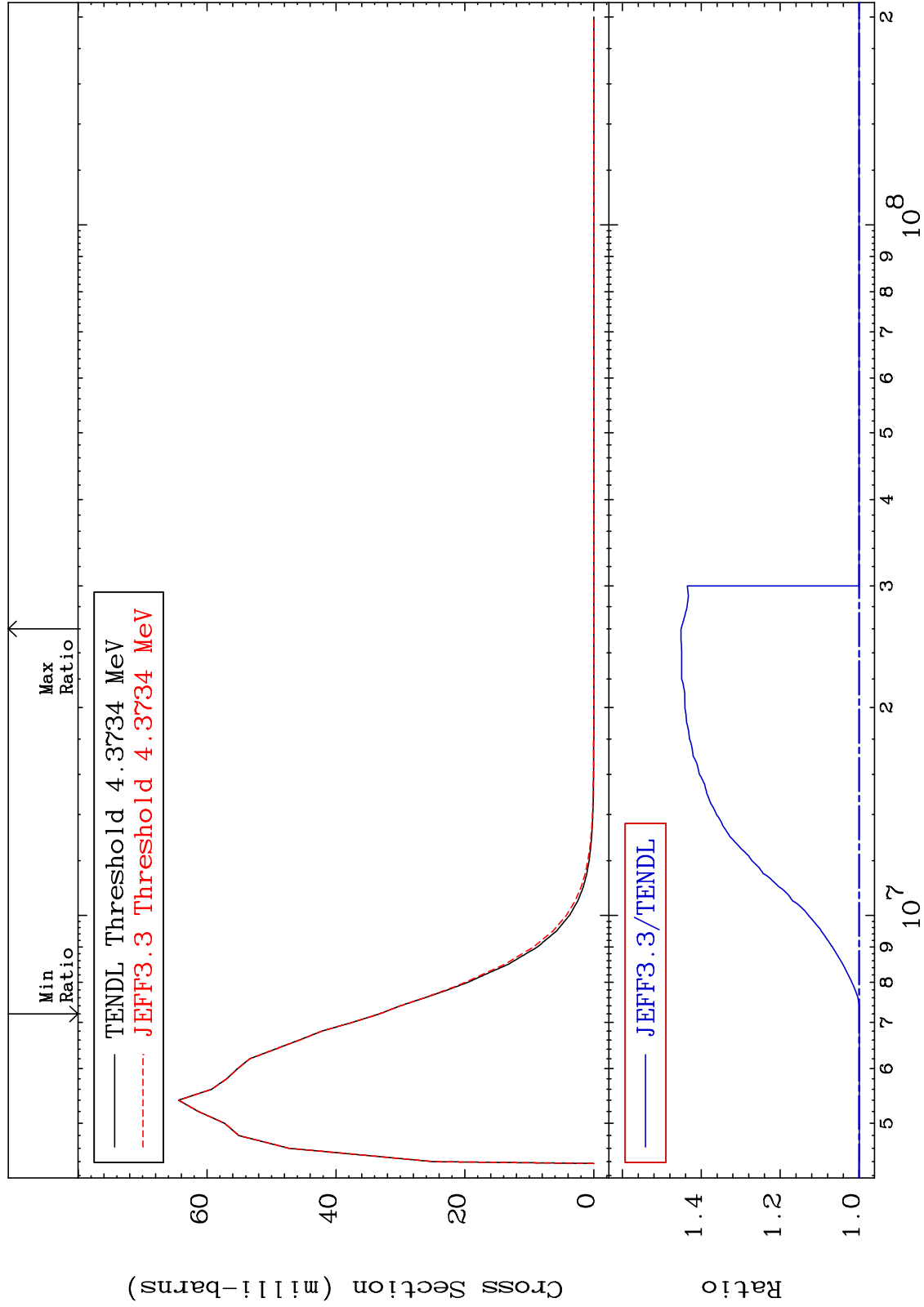


MAT 2049

MT= 52 (n,n') Level

20-Ca-48

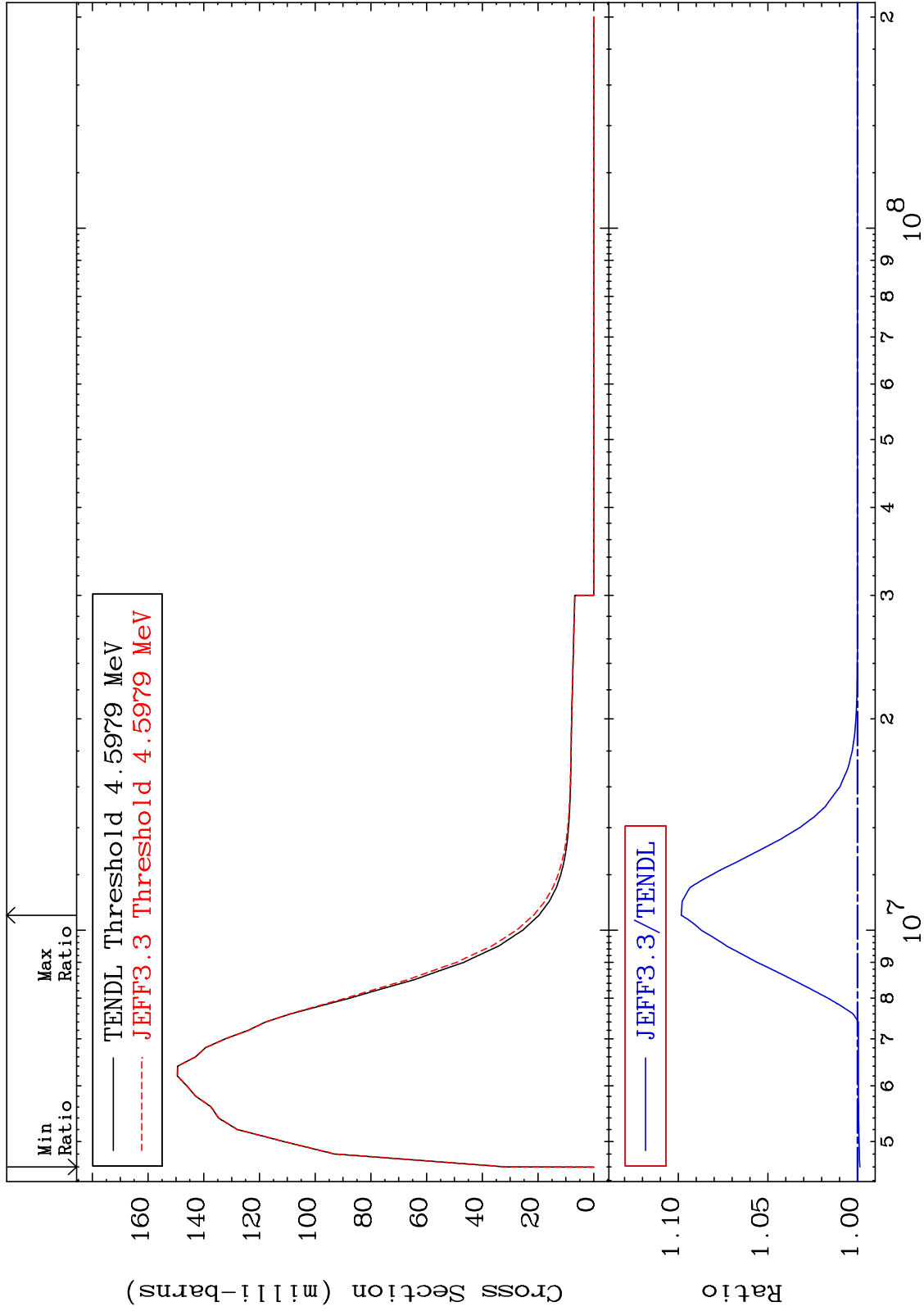
Cross Section
-0.049 To 45.14 %



MAT 2049

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

20-Ca-48
-0.135 To 9.839 %



15

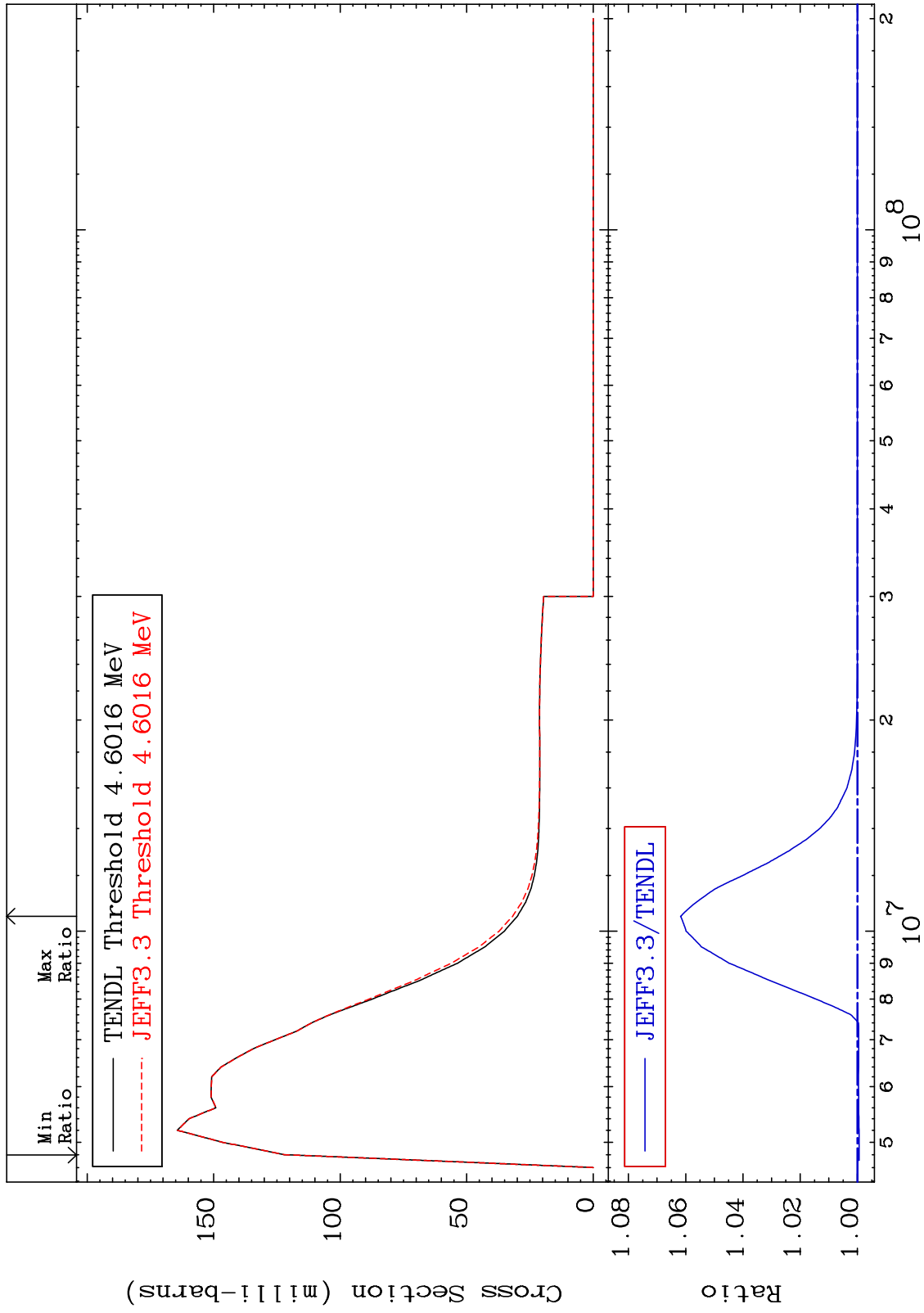
Incident Energy (eV)

20-Ca-48

MAT 2049

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

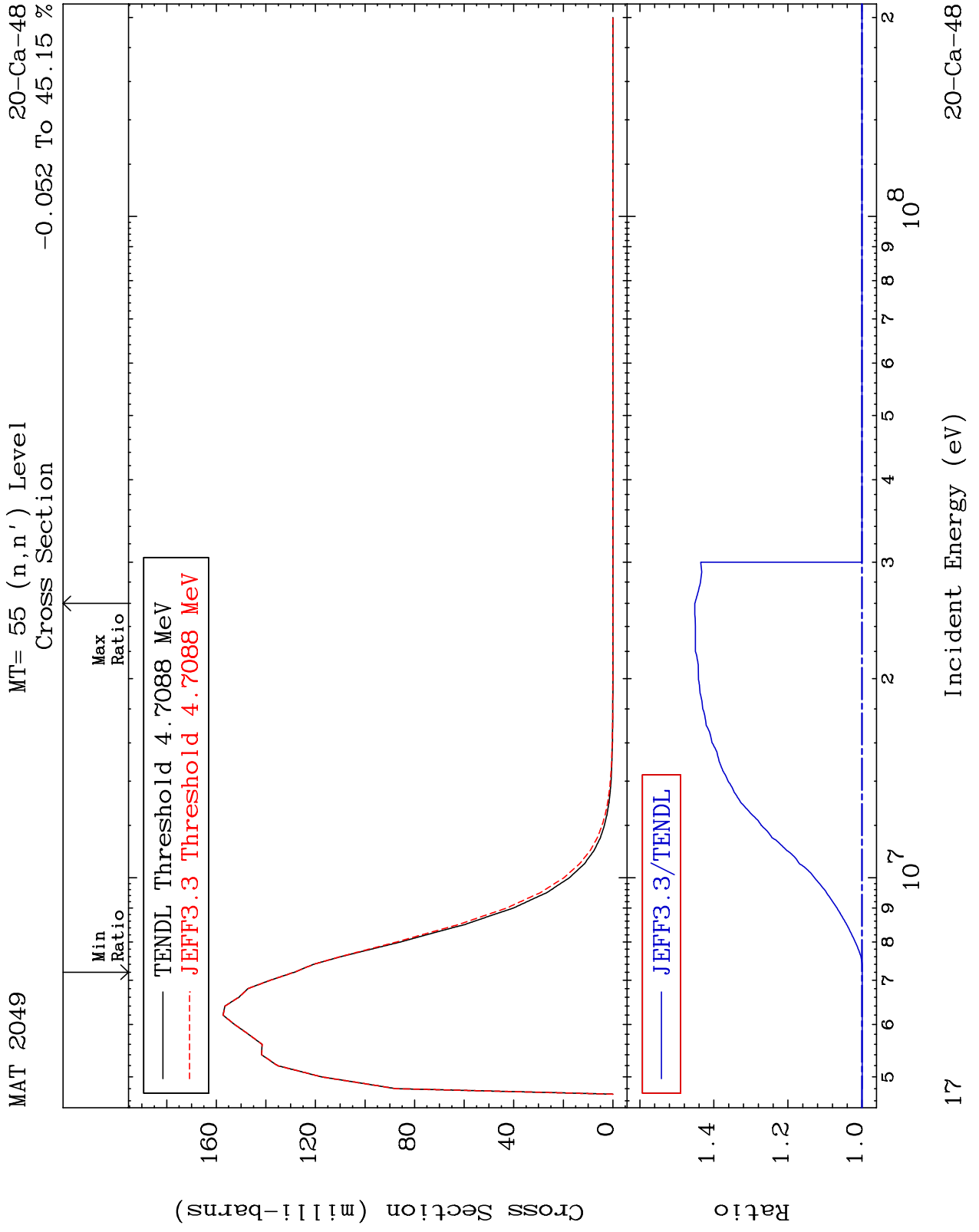
20-Ca-48
-0.061 To 6.177 %



16

Incident Energy (eV)

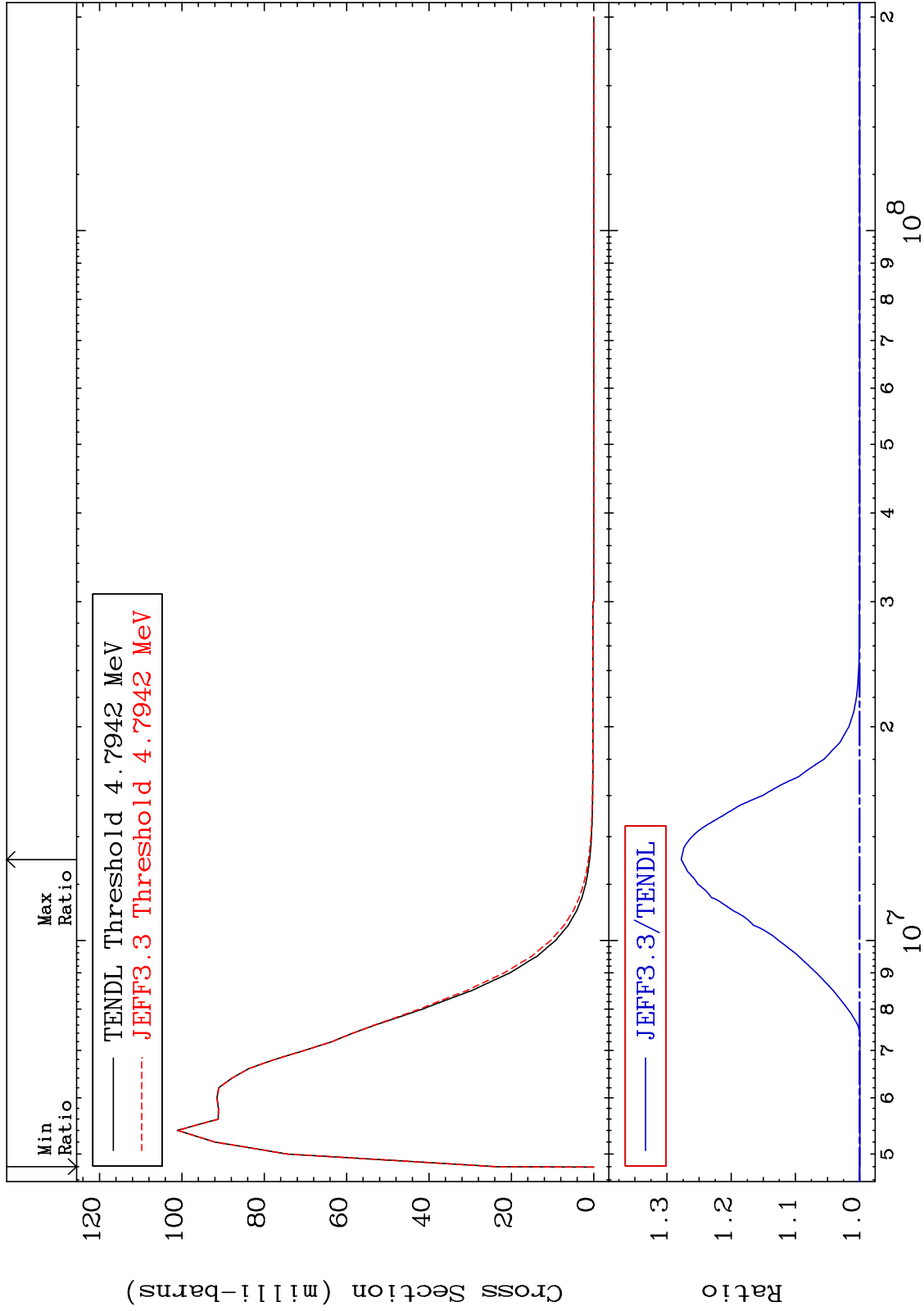
20-Ca-48



MAT 2049

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

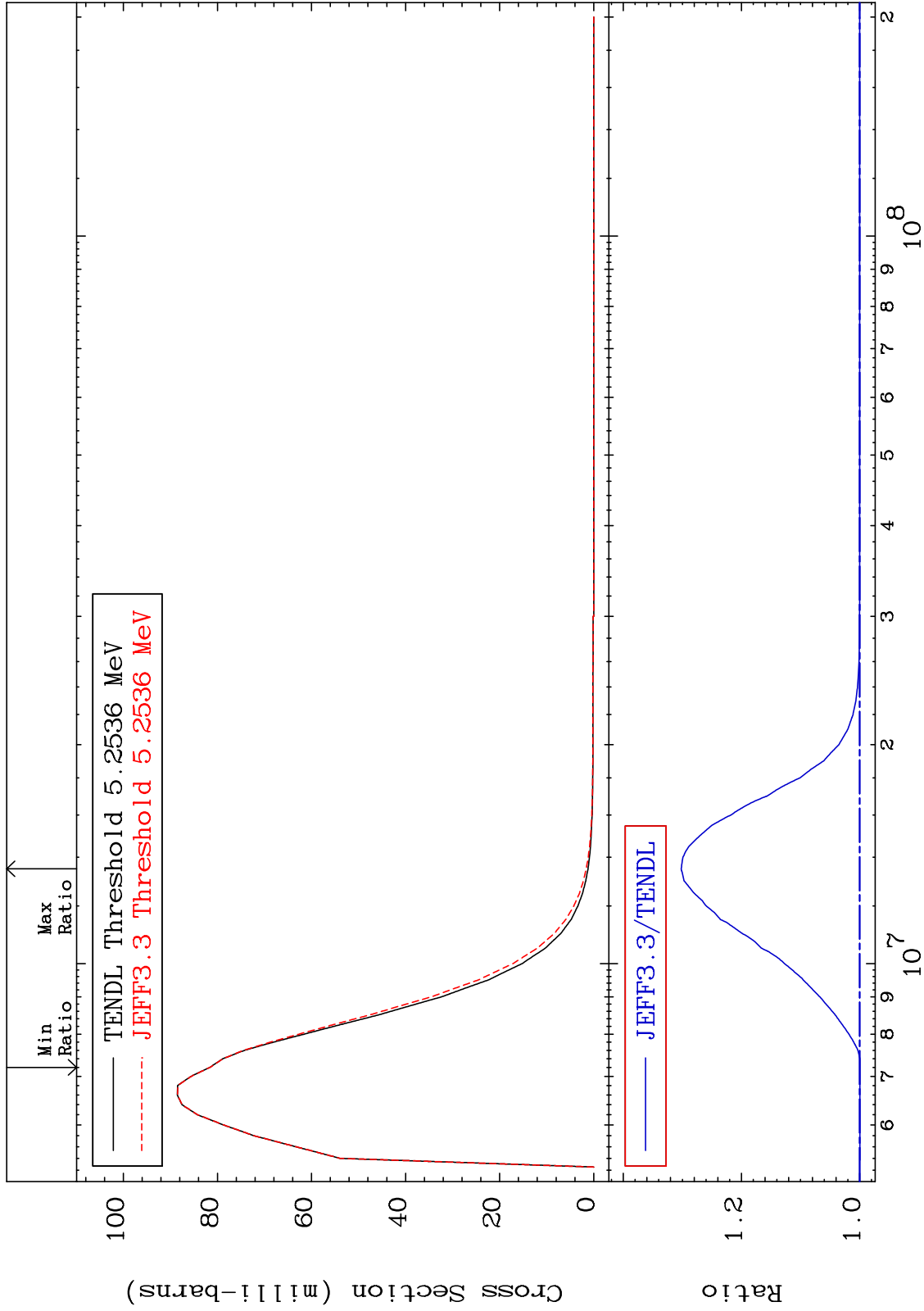
20-Ca-48
-0.050 To 27.79 %

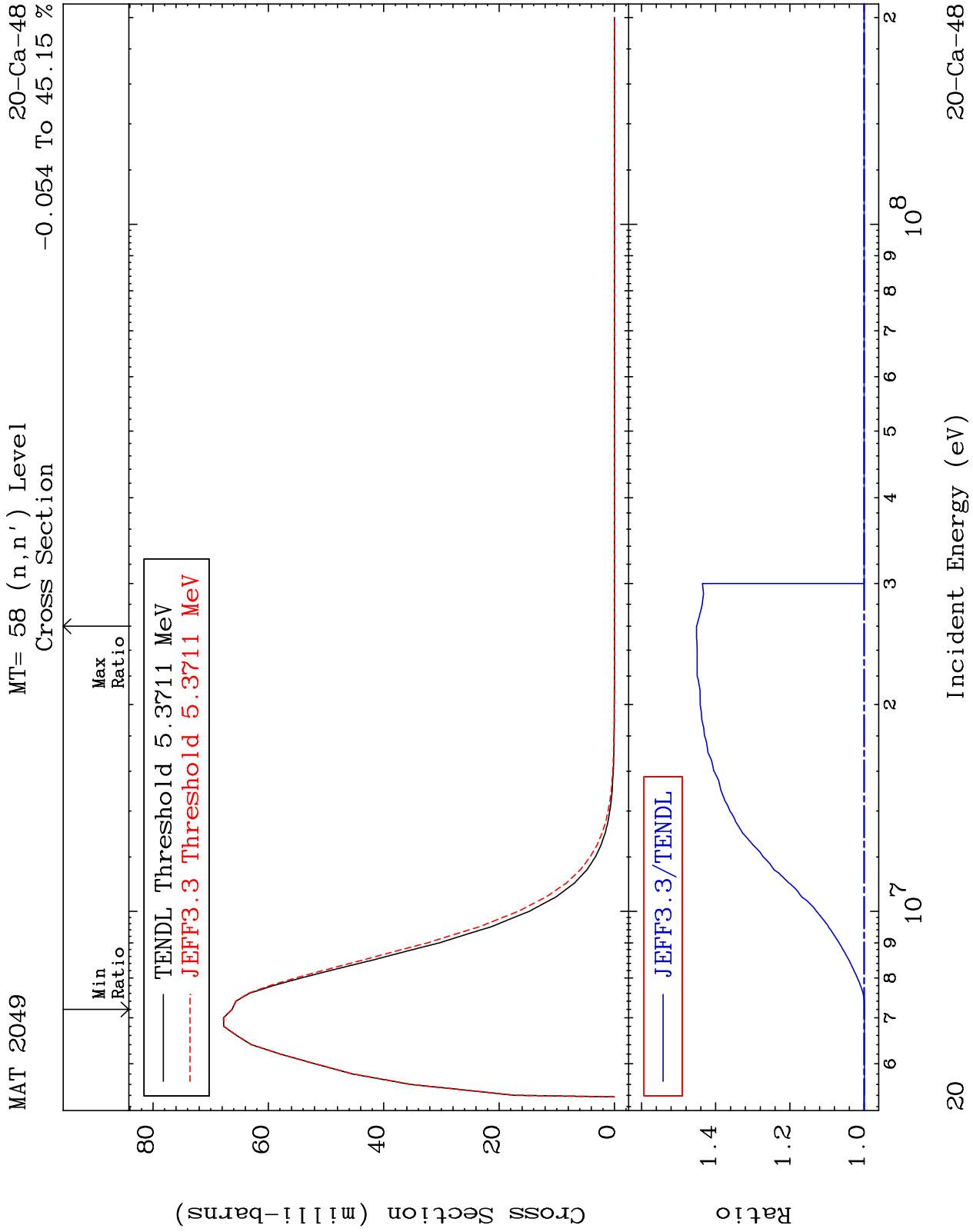


MAT 2049

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

20-Ca-48
-0.050 To 30.19 %

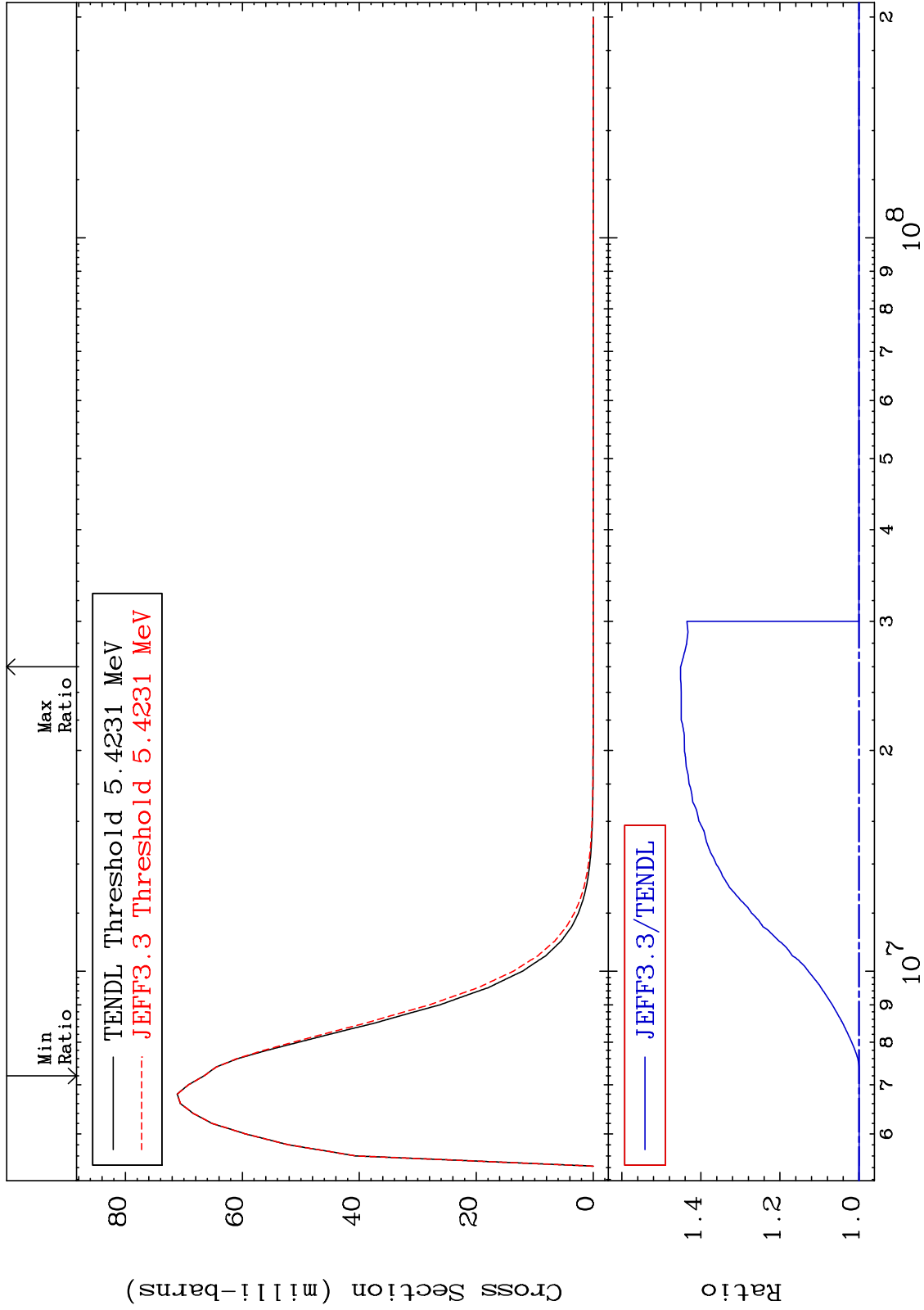




MAT 2049

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

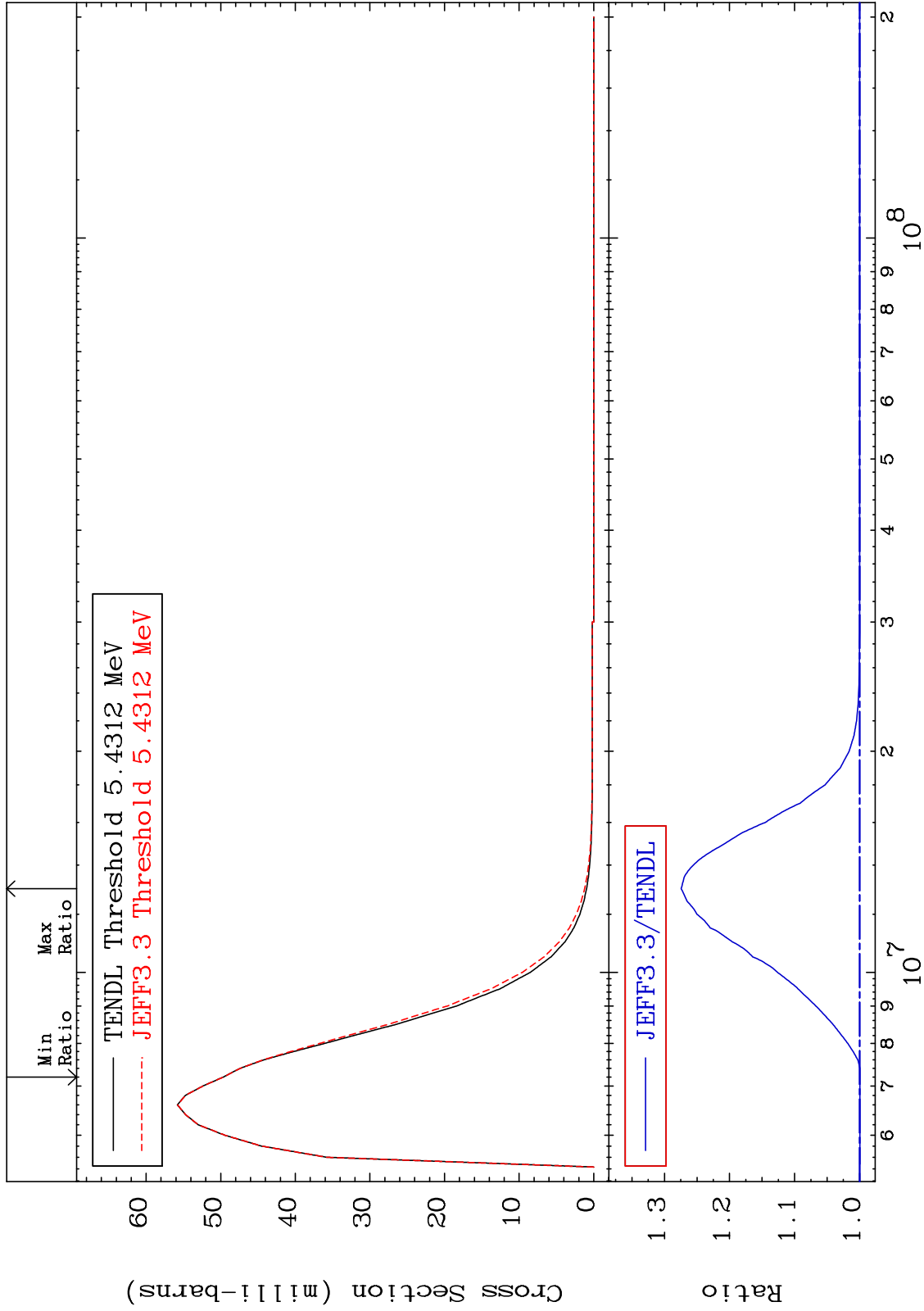
20-Ca-48
-0.048 To 45.14 %



MAT 2049

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

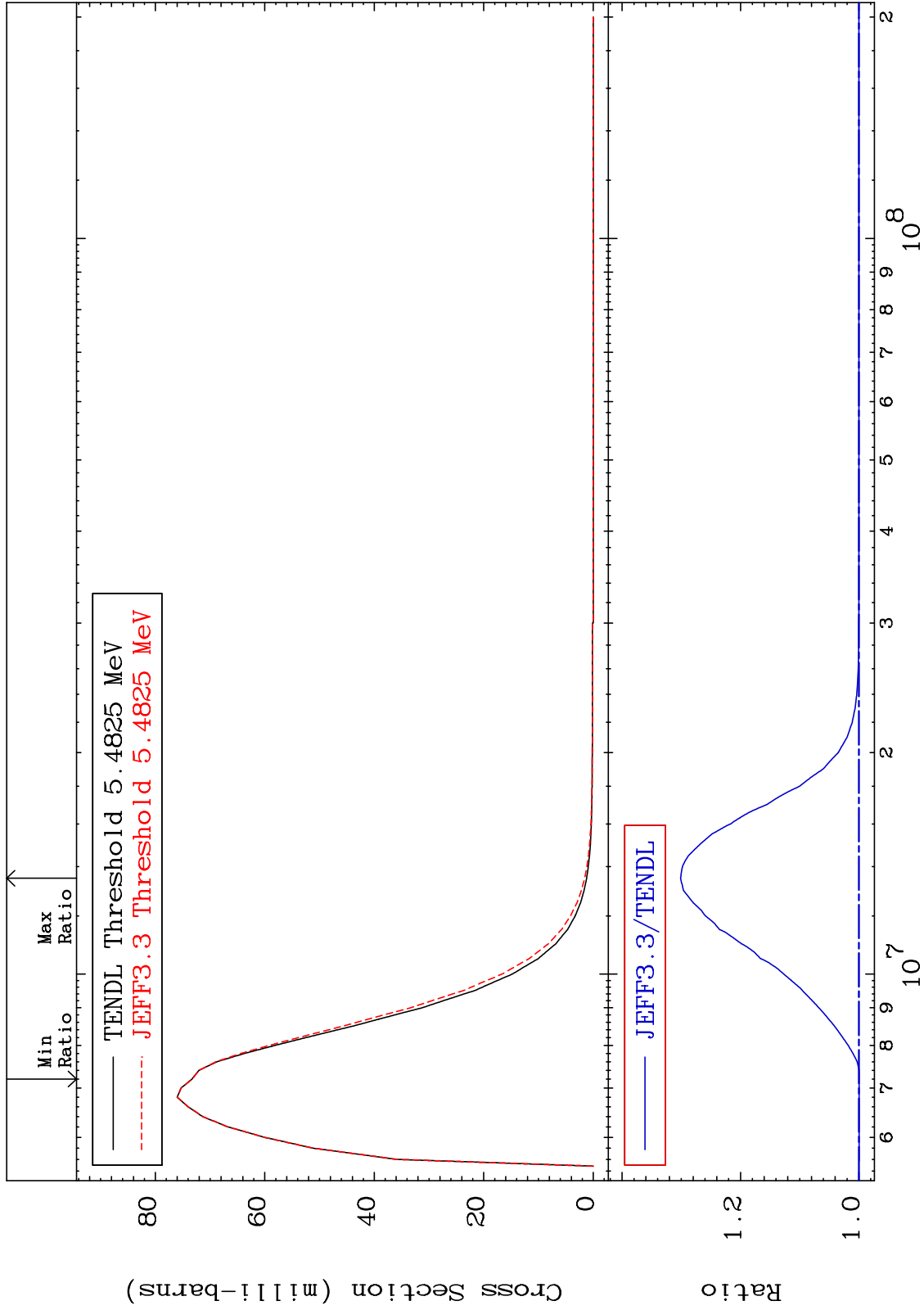
20-Ca-48
-0.047 To 27.43 %



MAT 2049

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

20-Ca-48
-0.050 To 30.11 %



23

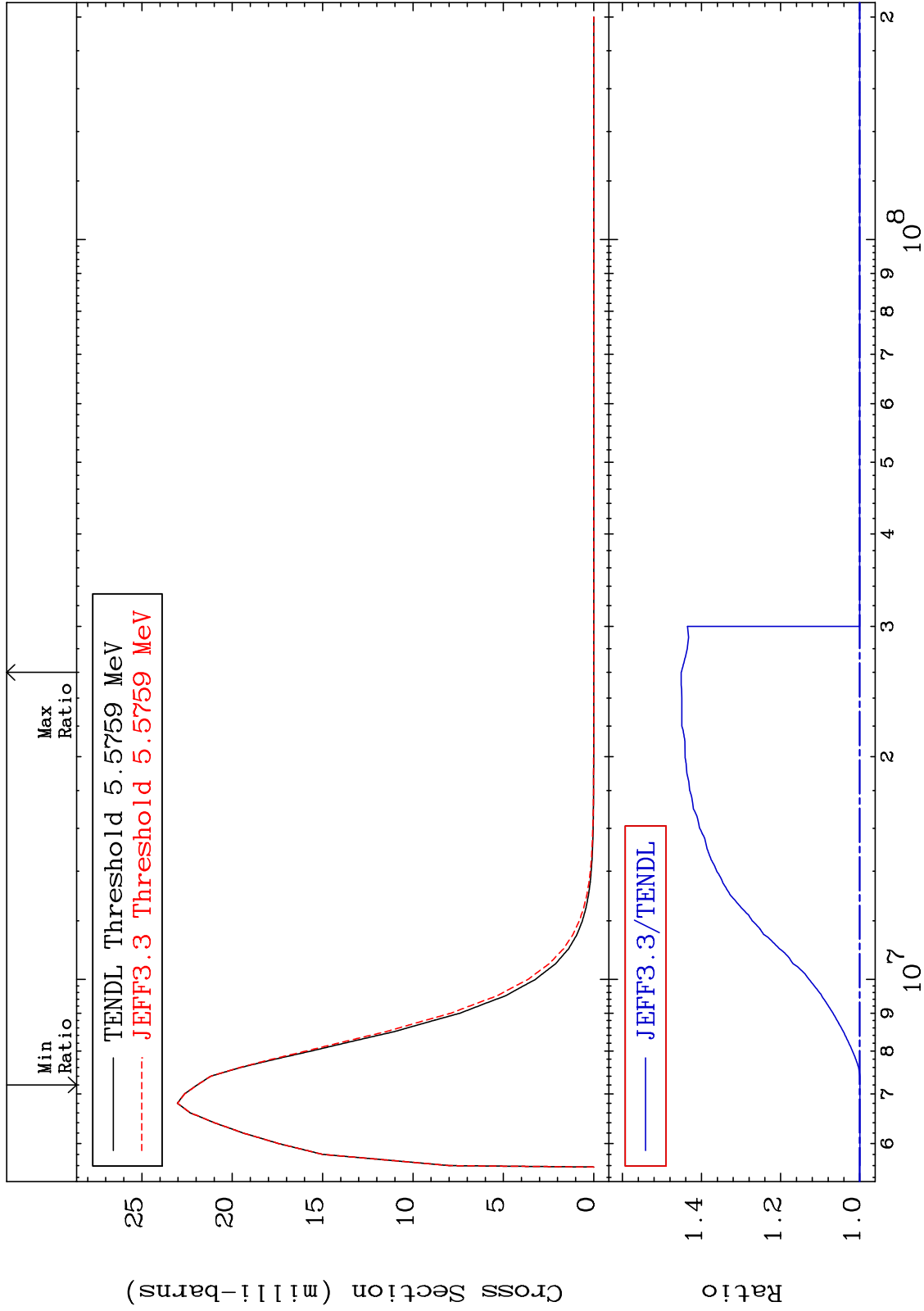
Incident Energy (eV)

20-Ca-48

MAT 2049

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

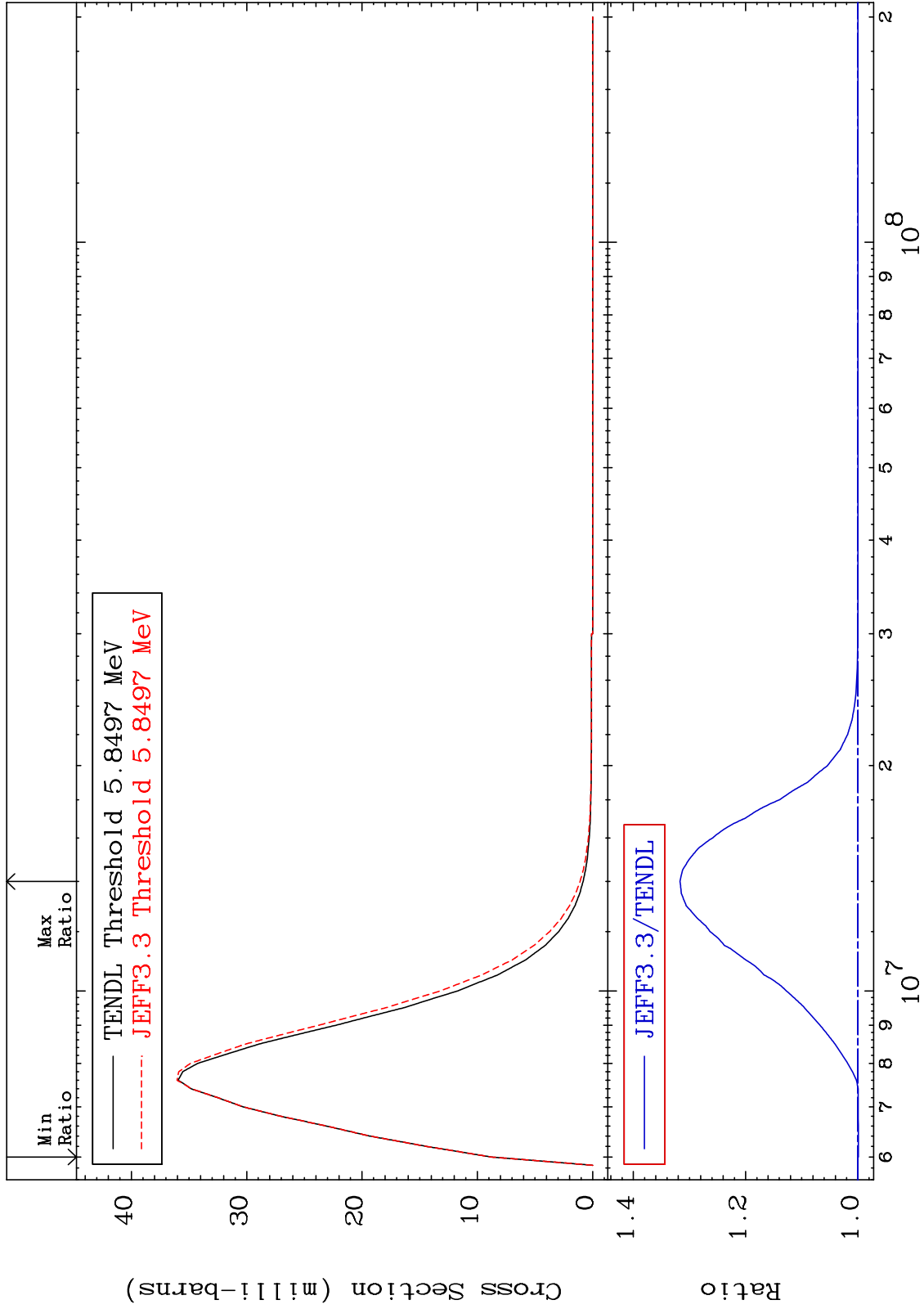
20-Ca-48
-0.050 To 45.14 %



MAT 2049

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

20-Ca-48
-0.095 To 31.69 %



25

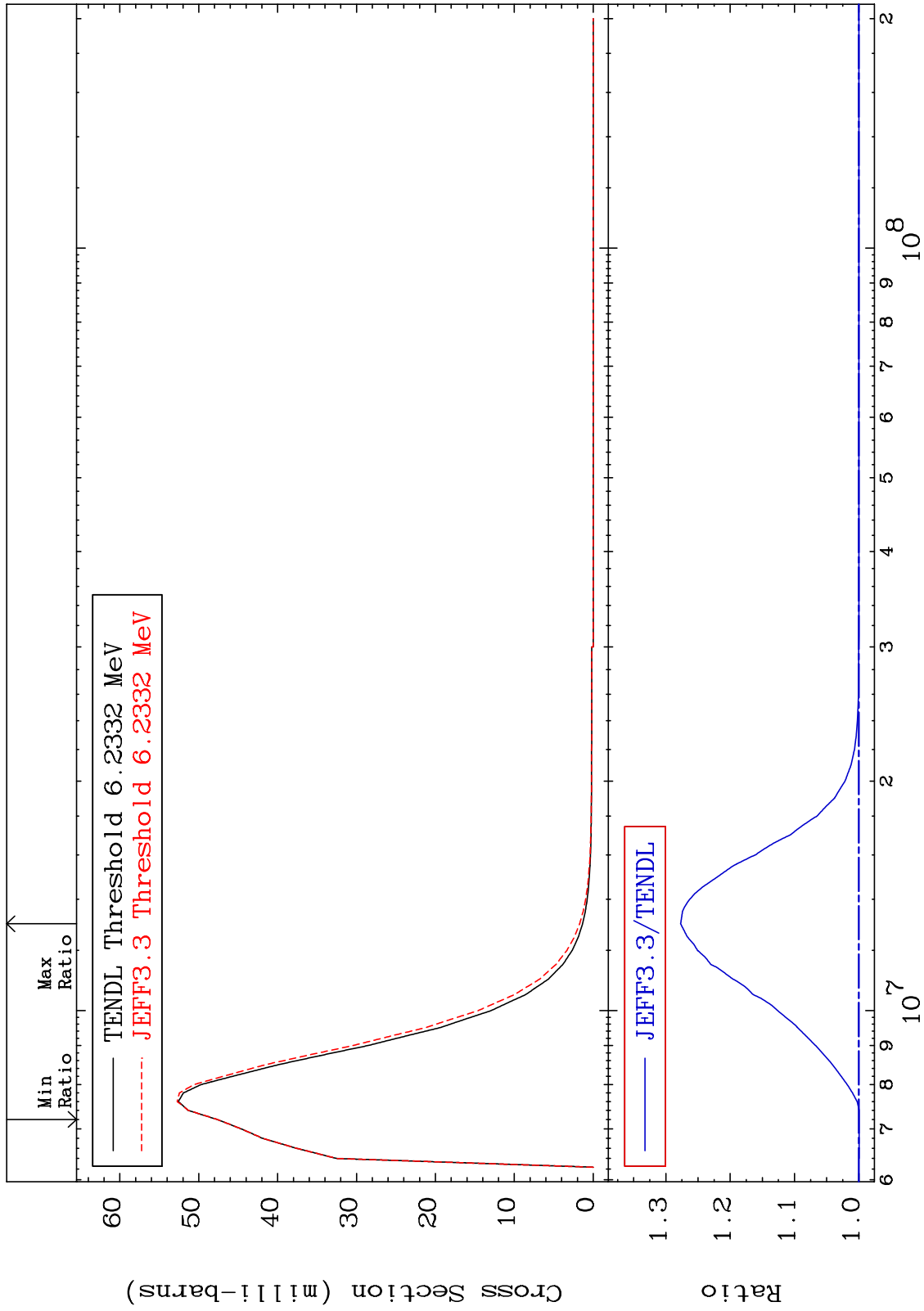
Incident Energy (eV)

20-Ca-48

MAT 2049

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

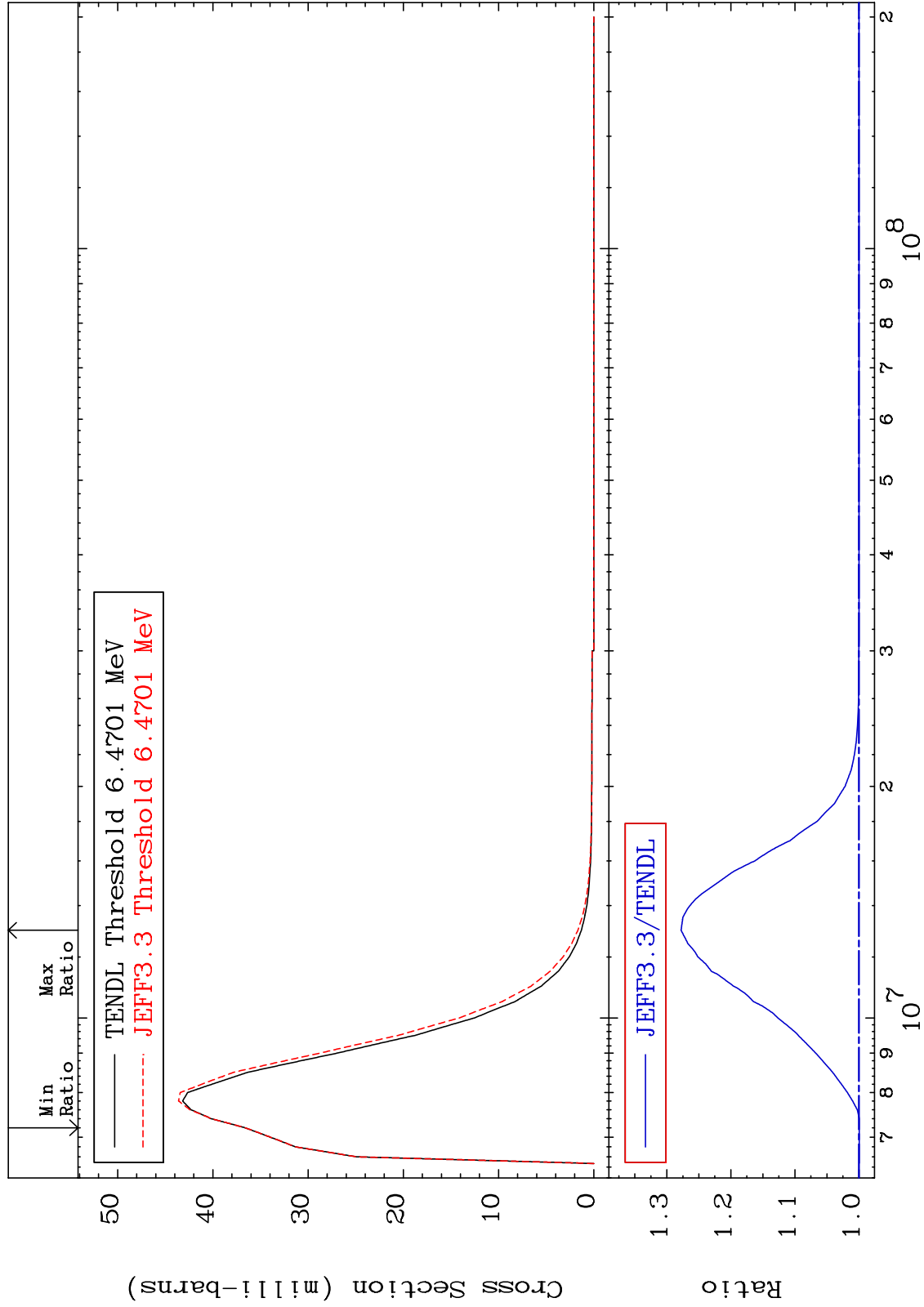
20-Ca-48
-0.051 To 27.70 %



MAT 2049

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

20-Ca-48
-0.051 To 27.78 %



27

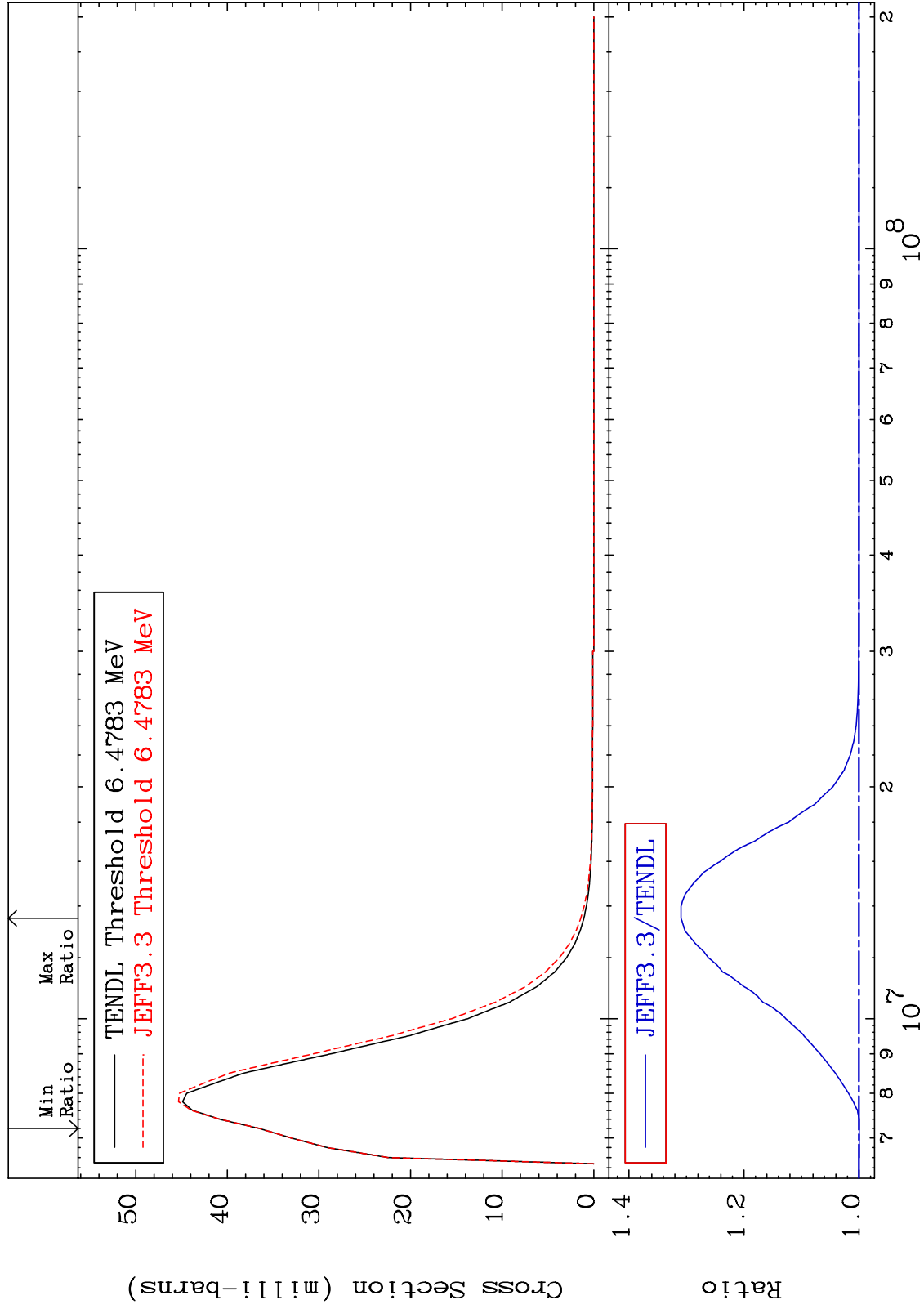
Incident Energy (eV)

20-Ca-48

MAT 2049

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

20-Ca-48
-0.056 To 30.93 %



28

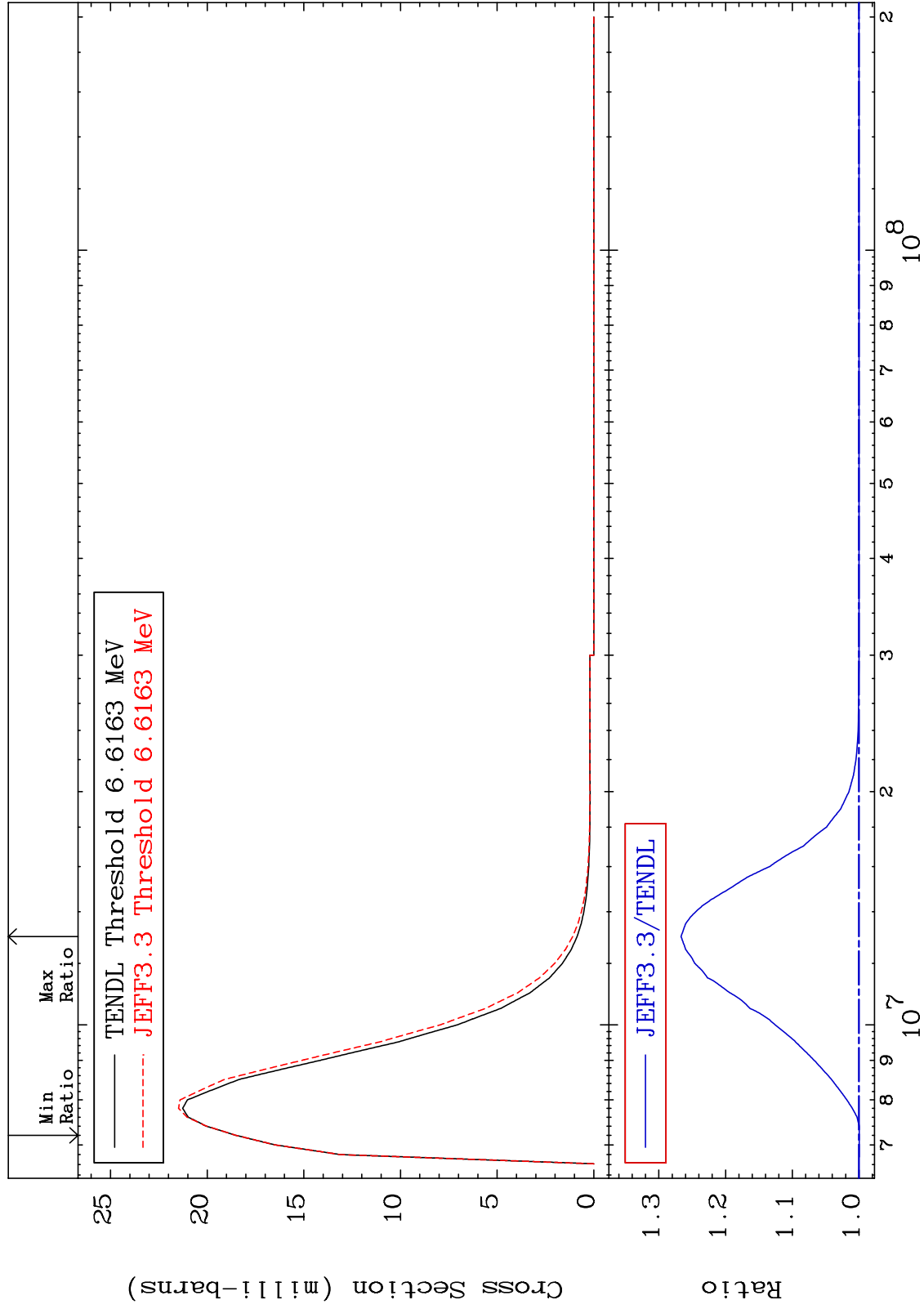
Incident Energy (eV)

20-Ca-48

MAT 2049

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

20-Ca-48
-0.046 To 26.67 %



29

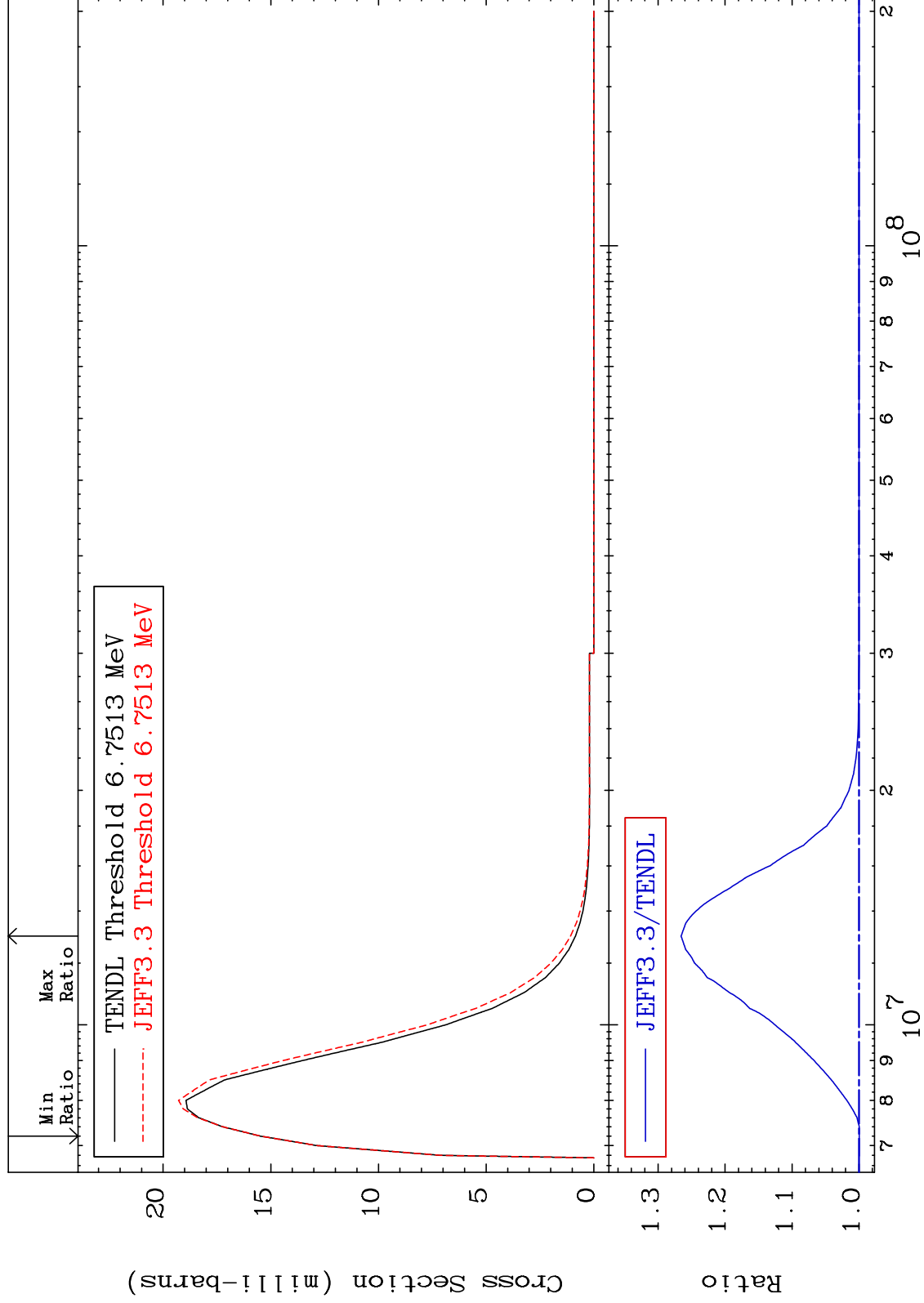
Incident Energy (eV)

20-Ca-48

MAT 2049

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

20-Ca-48
-0.046 To 26.58 %



30

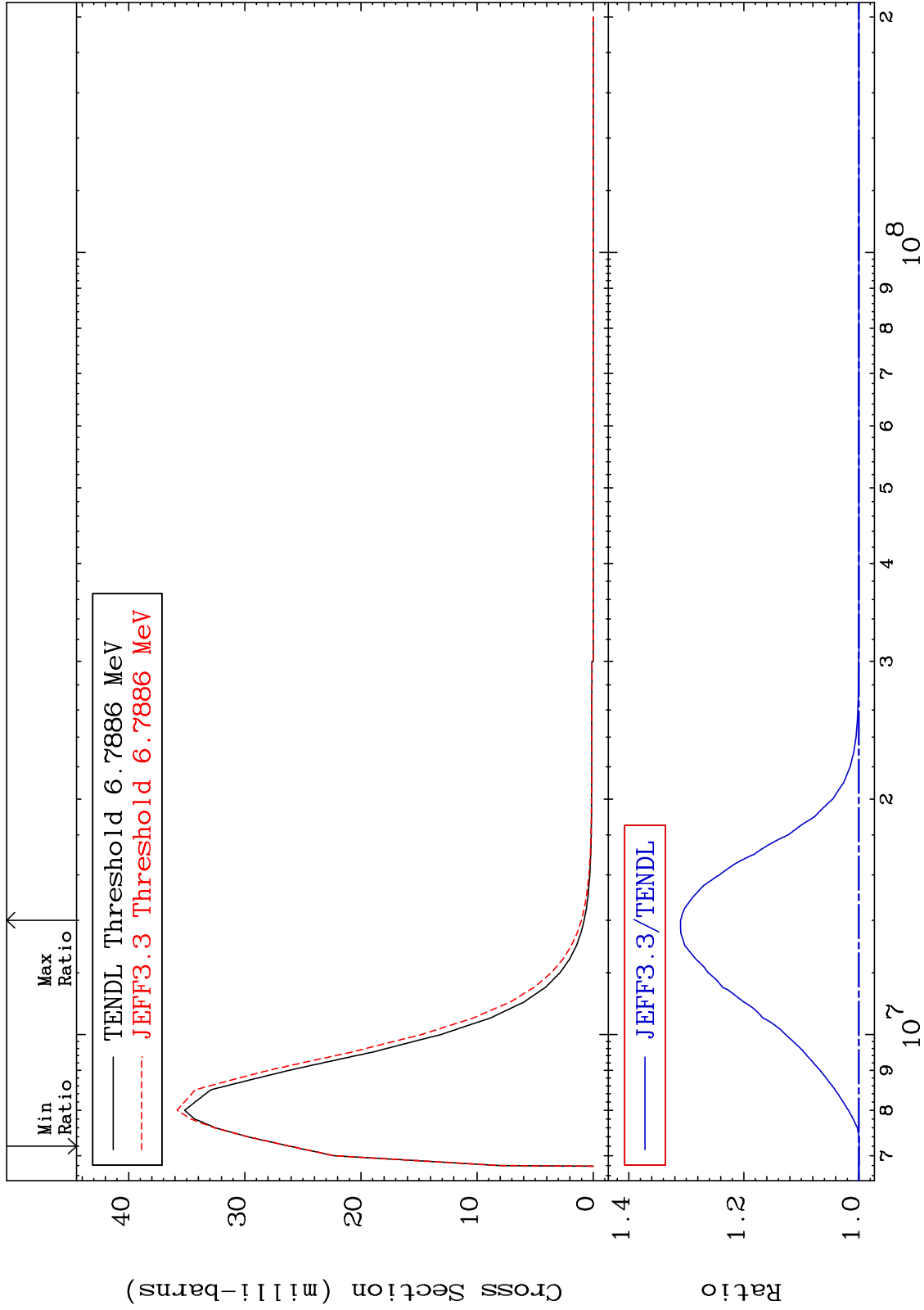
Incident Energy (eV)

20-Ca-48

MAT 2049

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

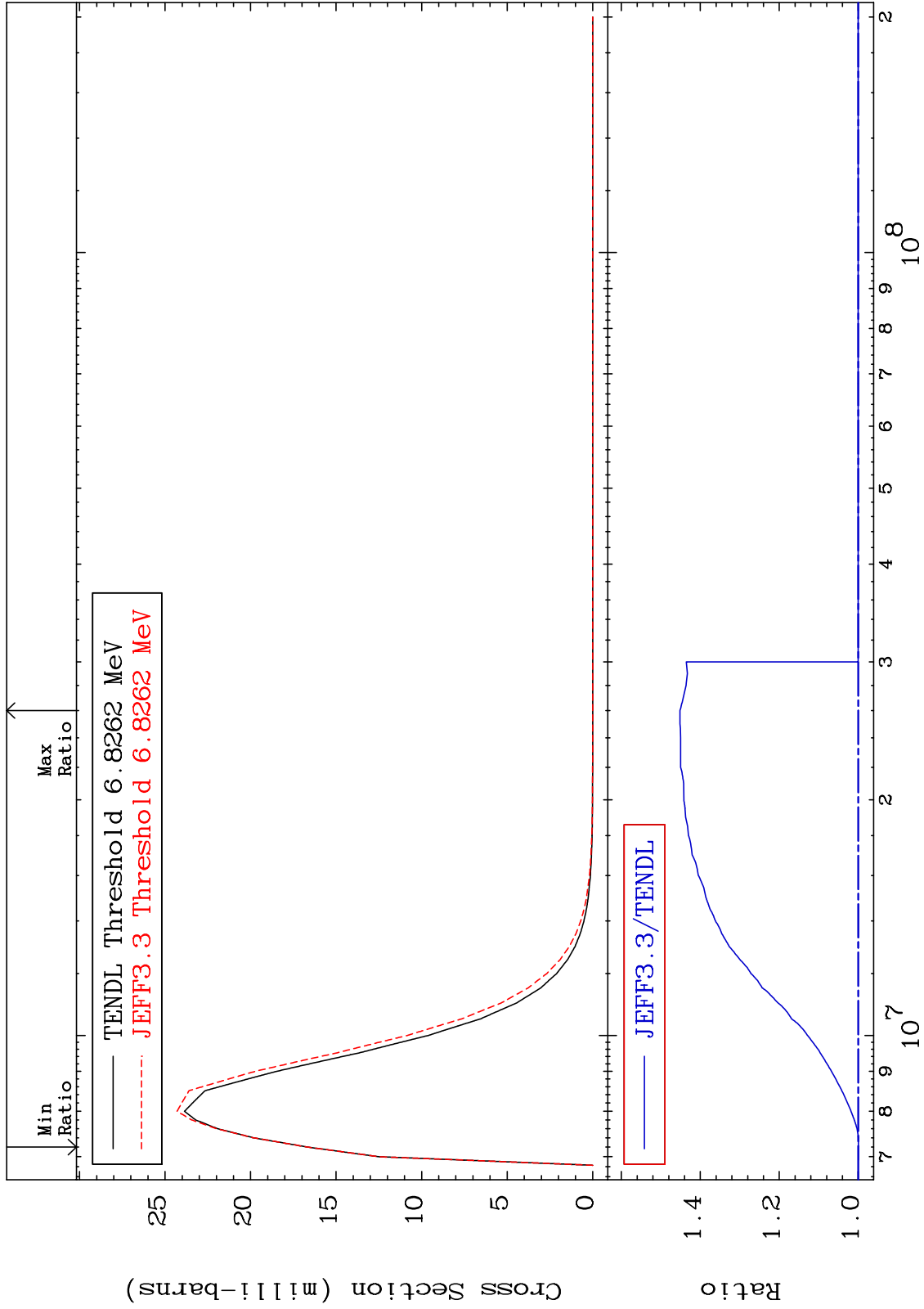
20-Ca-48
-0.056 To 30.99 %



MAT 2049

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

20-Ca-48
-0.047 To 45.14 %



32

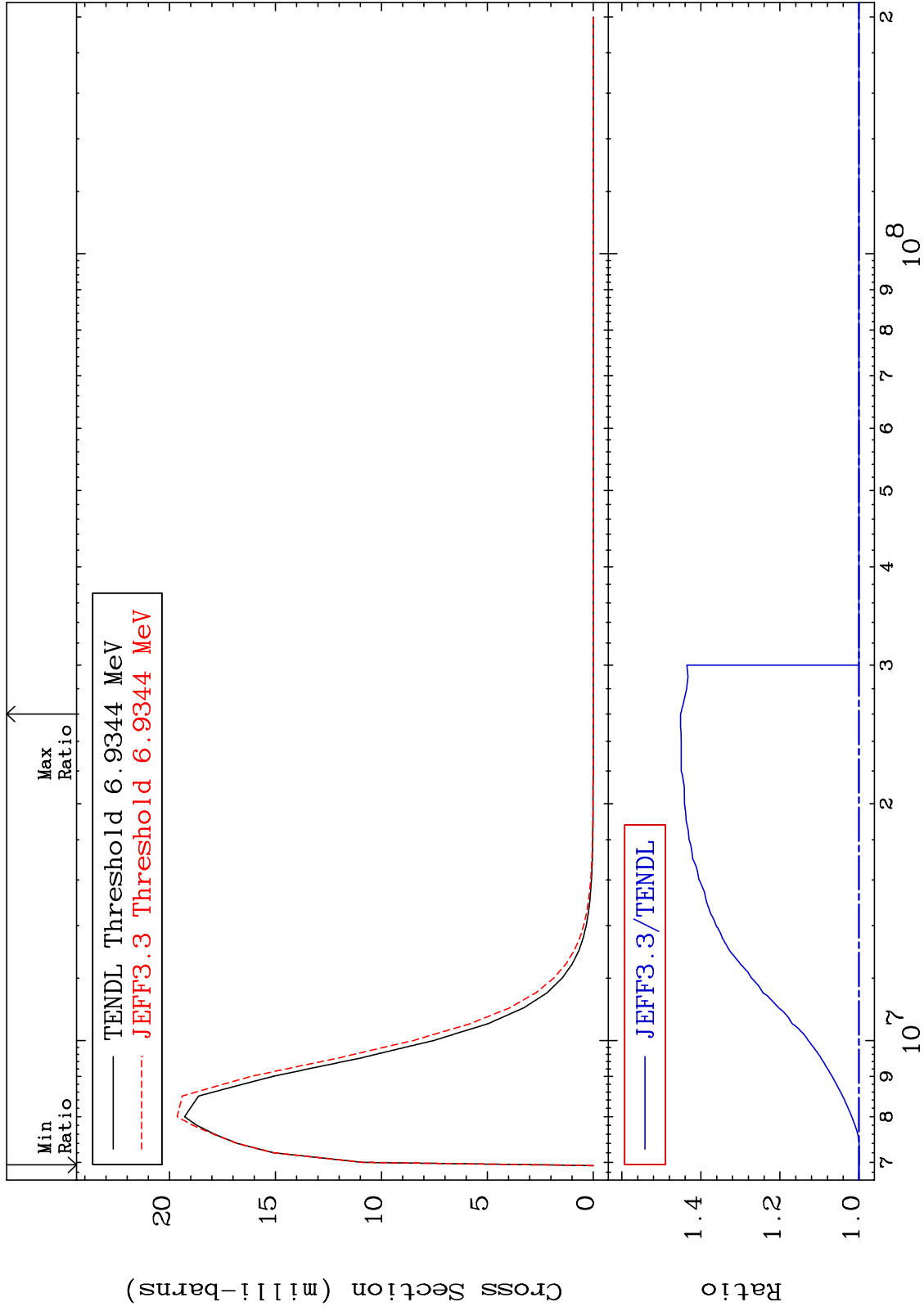
Incident Energy (eV)

20-Ca-48

MAT 2049

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

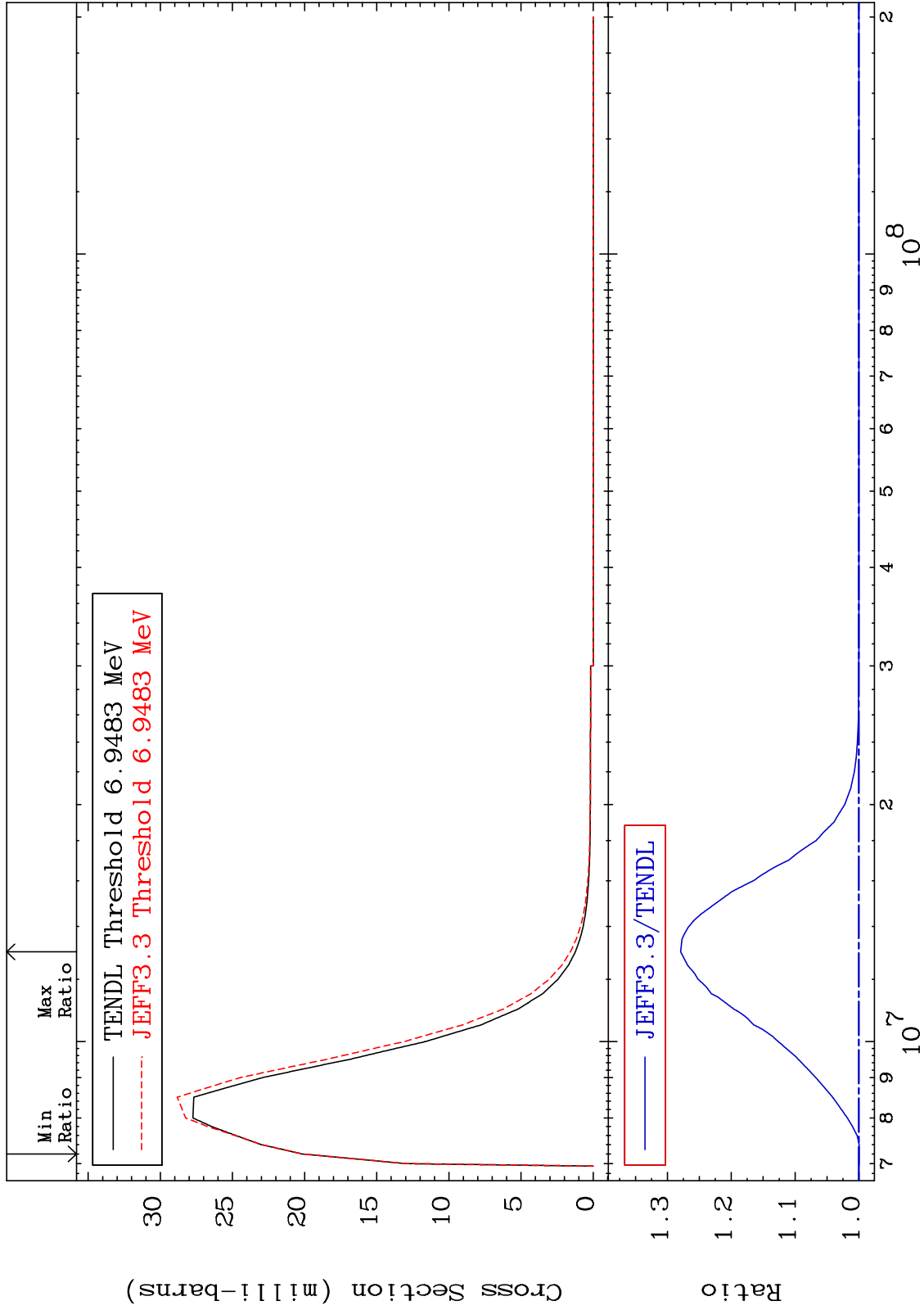
20-Ca-48
-0.051 To 45.14 %



MAT 2049

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

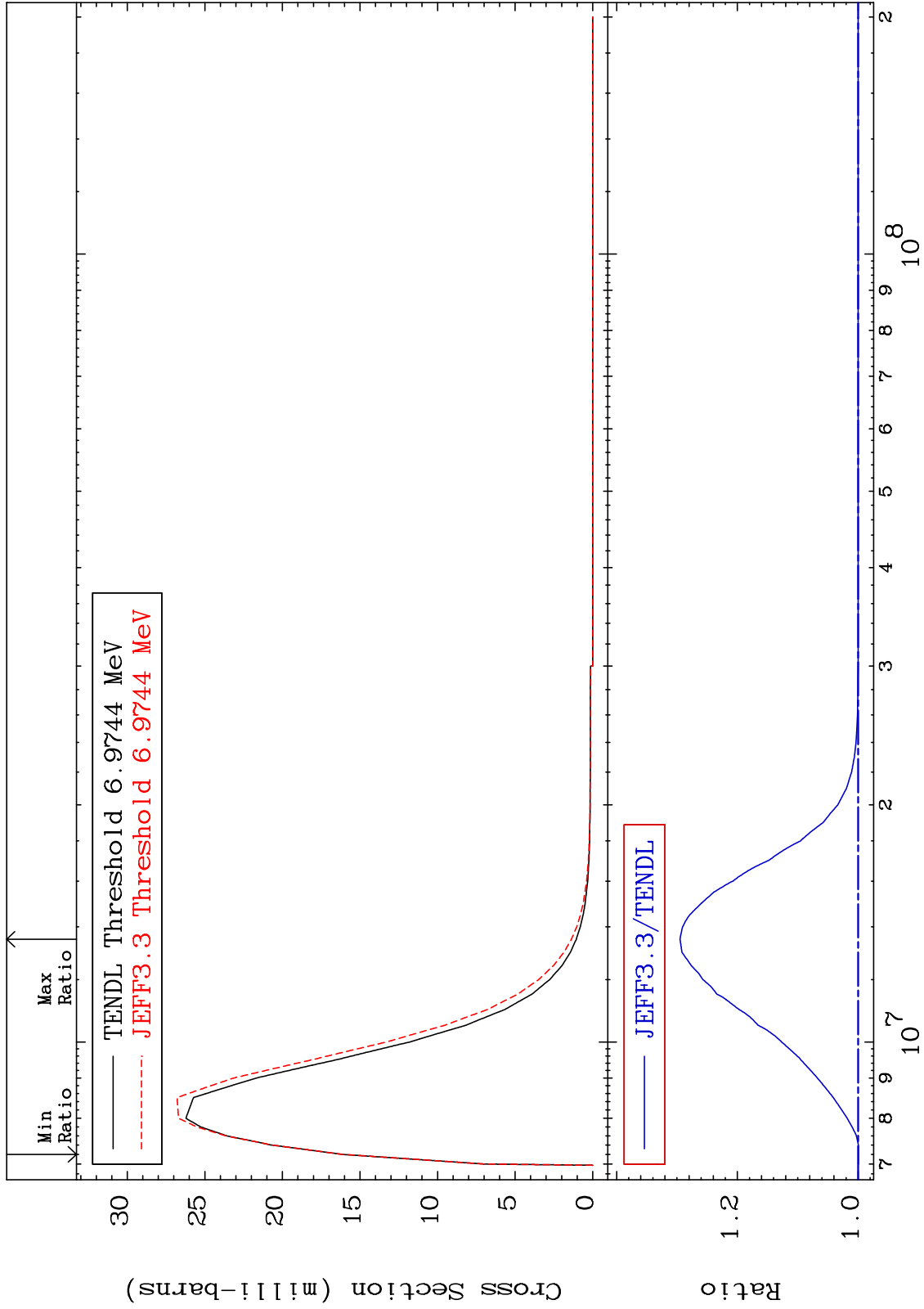
20-Ca-48
-0.050 To 27.94 %



MAT 2049

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

20-Ca-48
-0.048 To 29.50 %



35

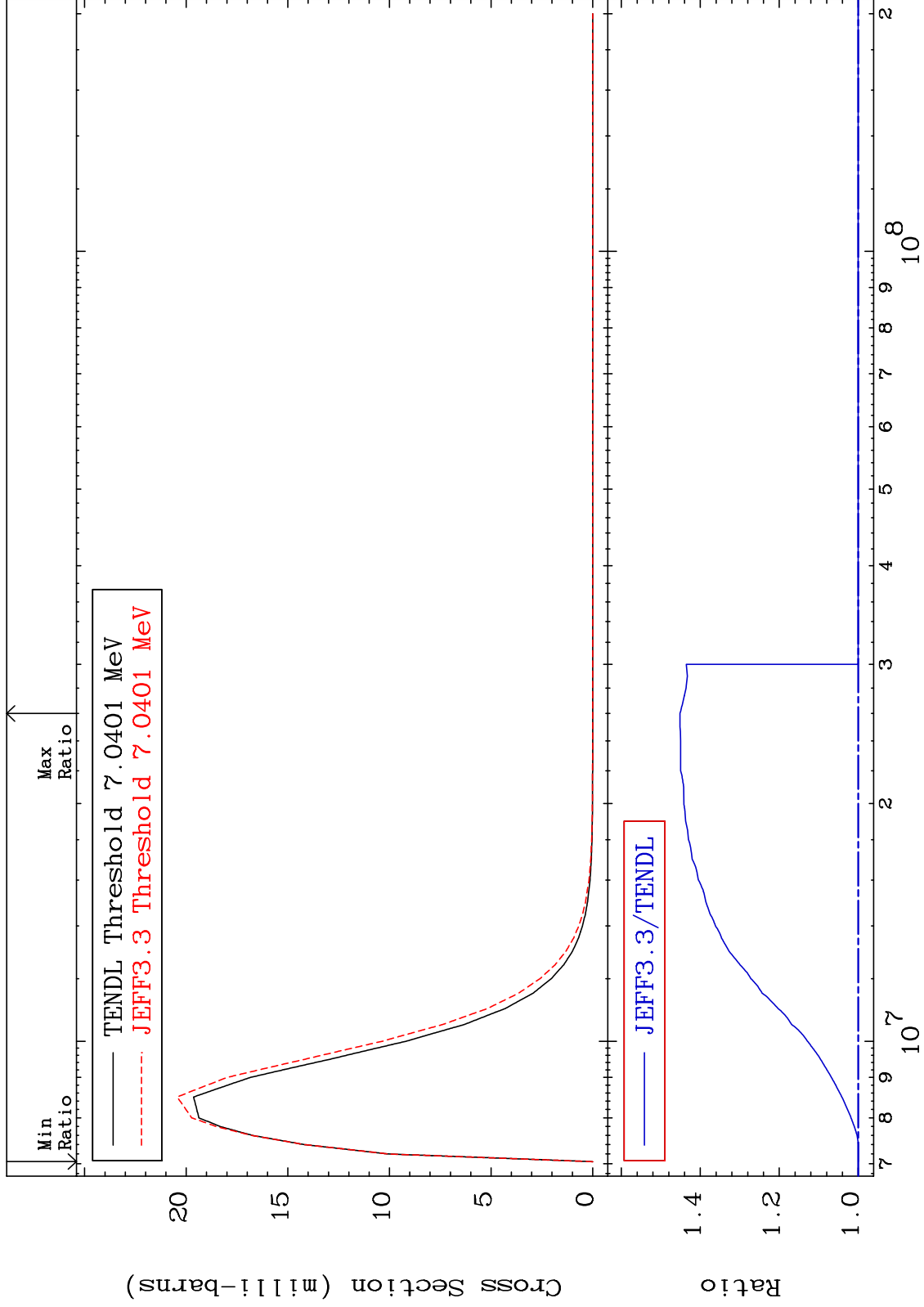
Incident Energy (eV)

20-Ca-48

MAT 2049

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

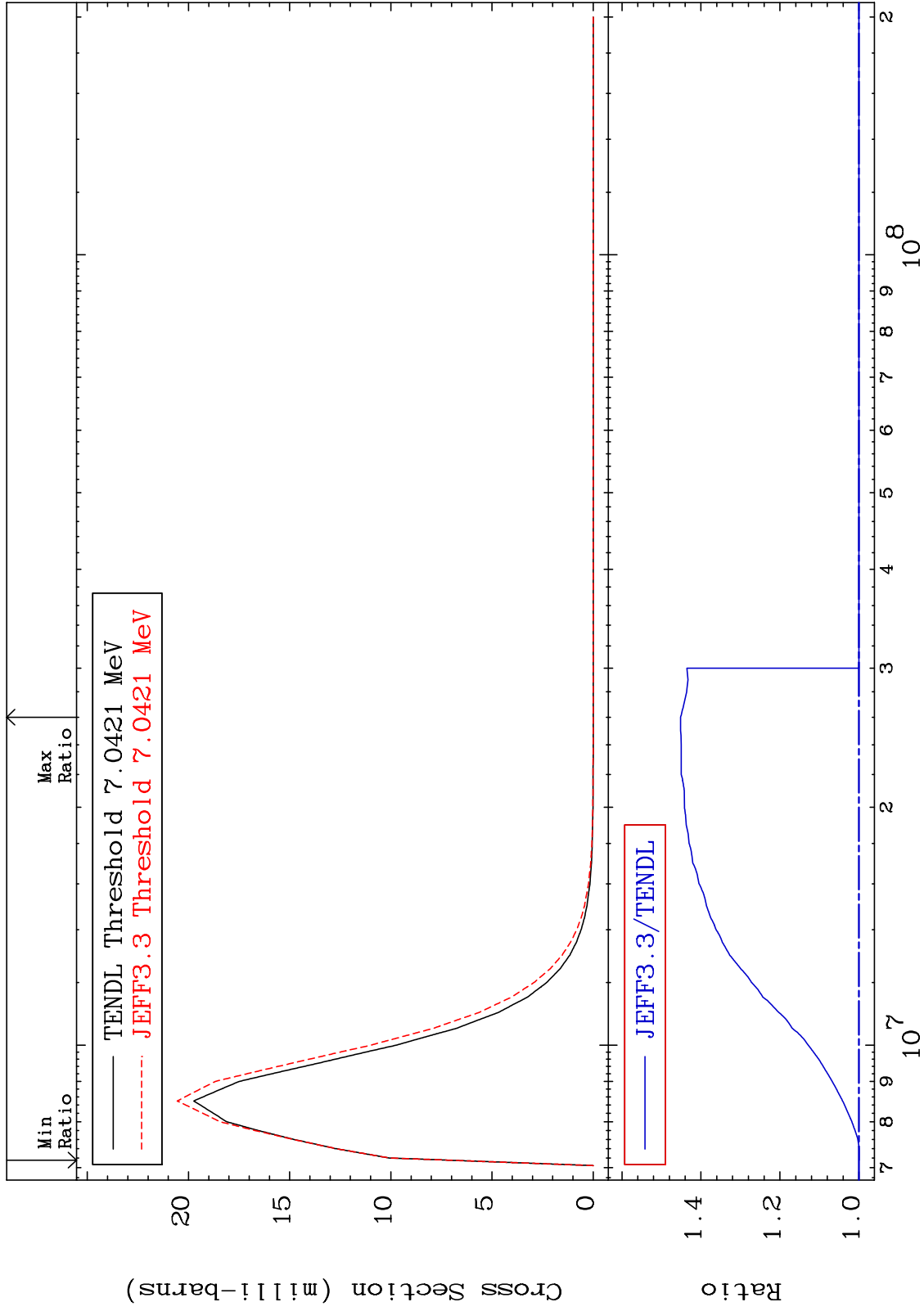
20-Ca-48
-0.045 To 45.14 %



MAT 2049

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

20-Ca-48
-0.059 To 45.15 %



37

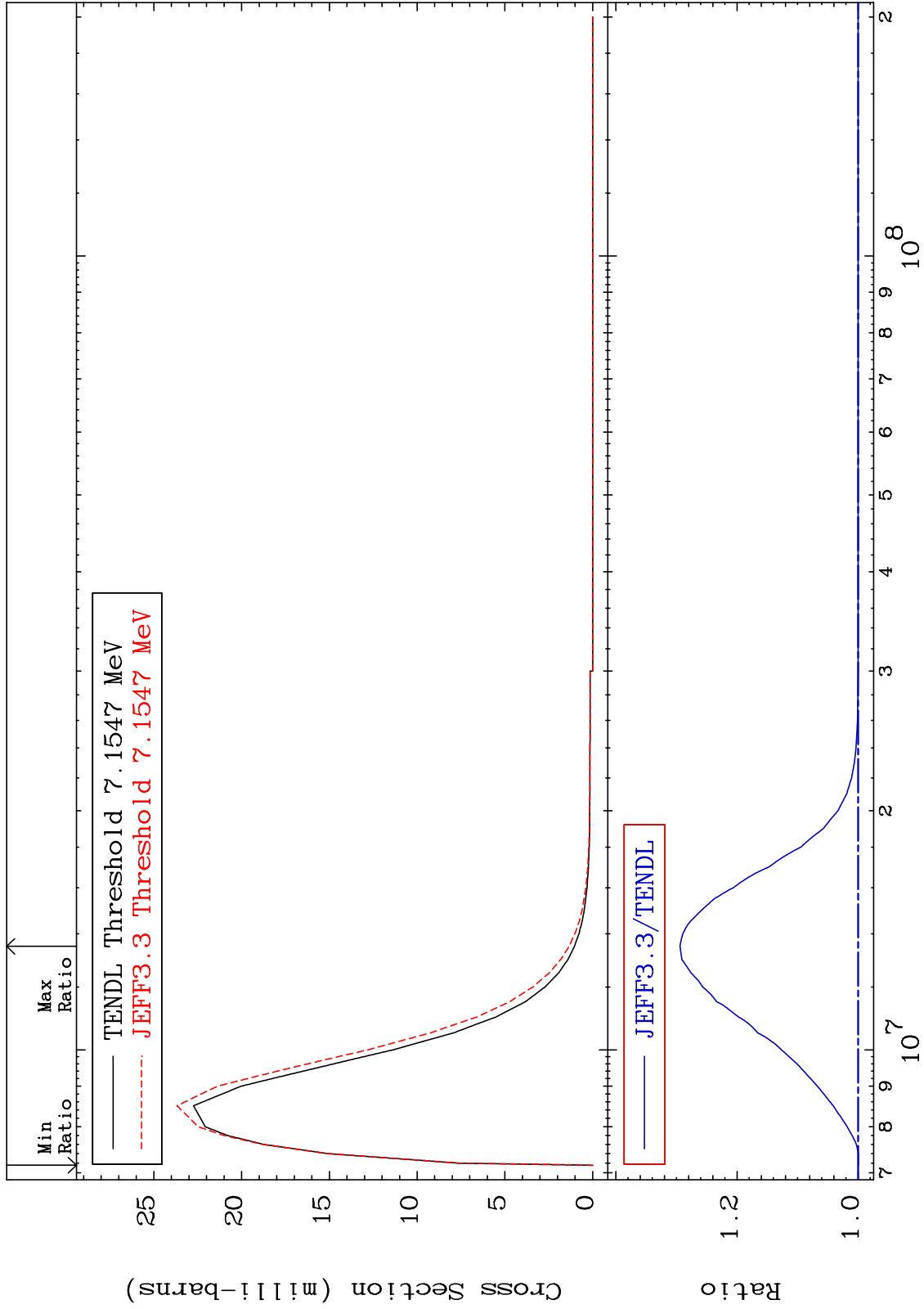
Incident Energy (eV)

20-Ca-48

MAT 2049

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

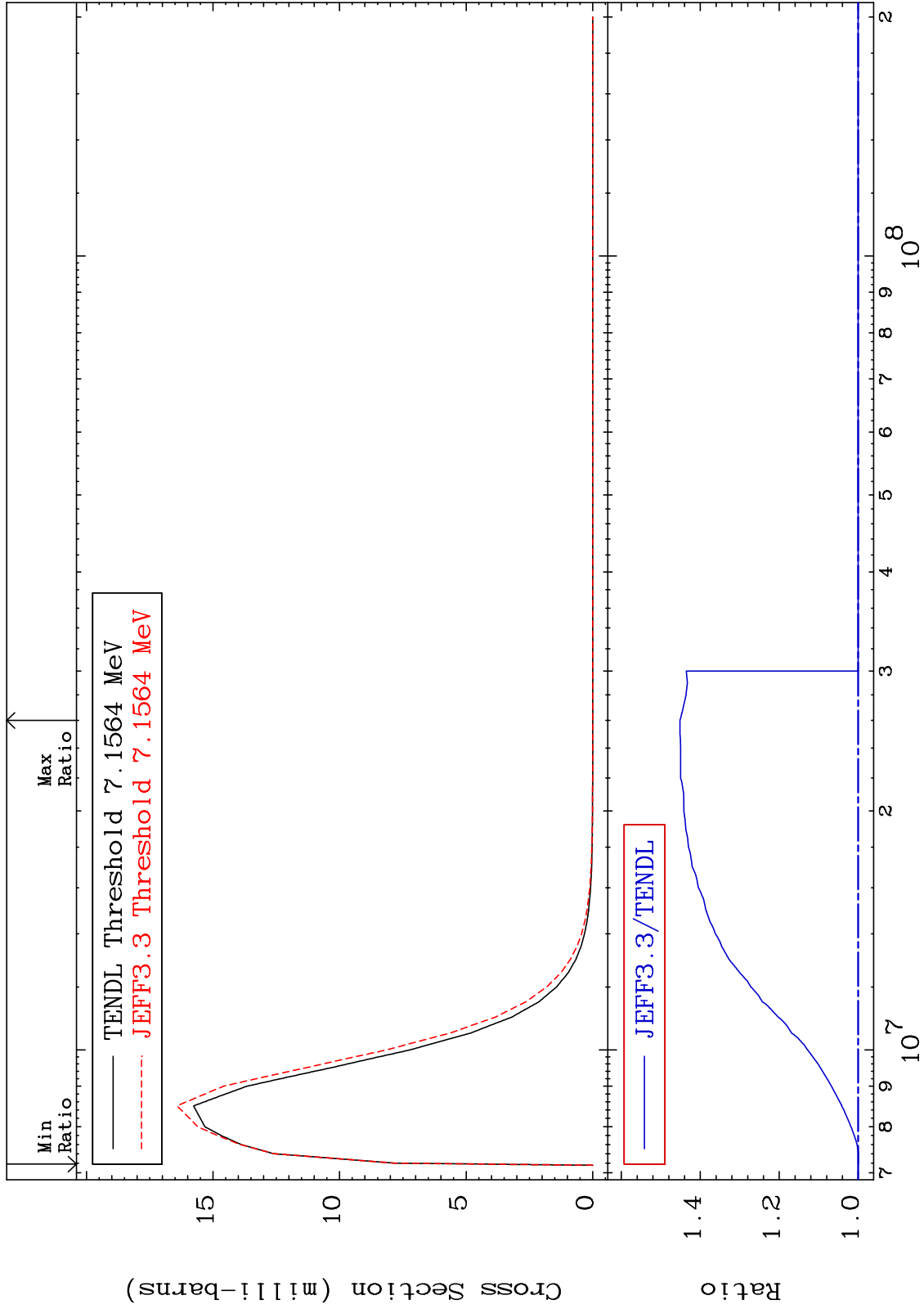
20-Ca-48
-0.046 To 29.42 %



MAT 2049

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

20-Ca-48
-0.052 To 45.14 %



39

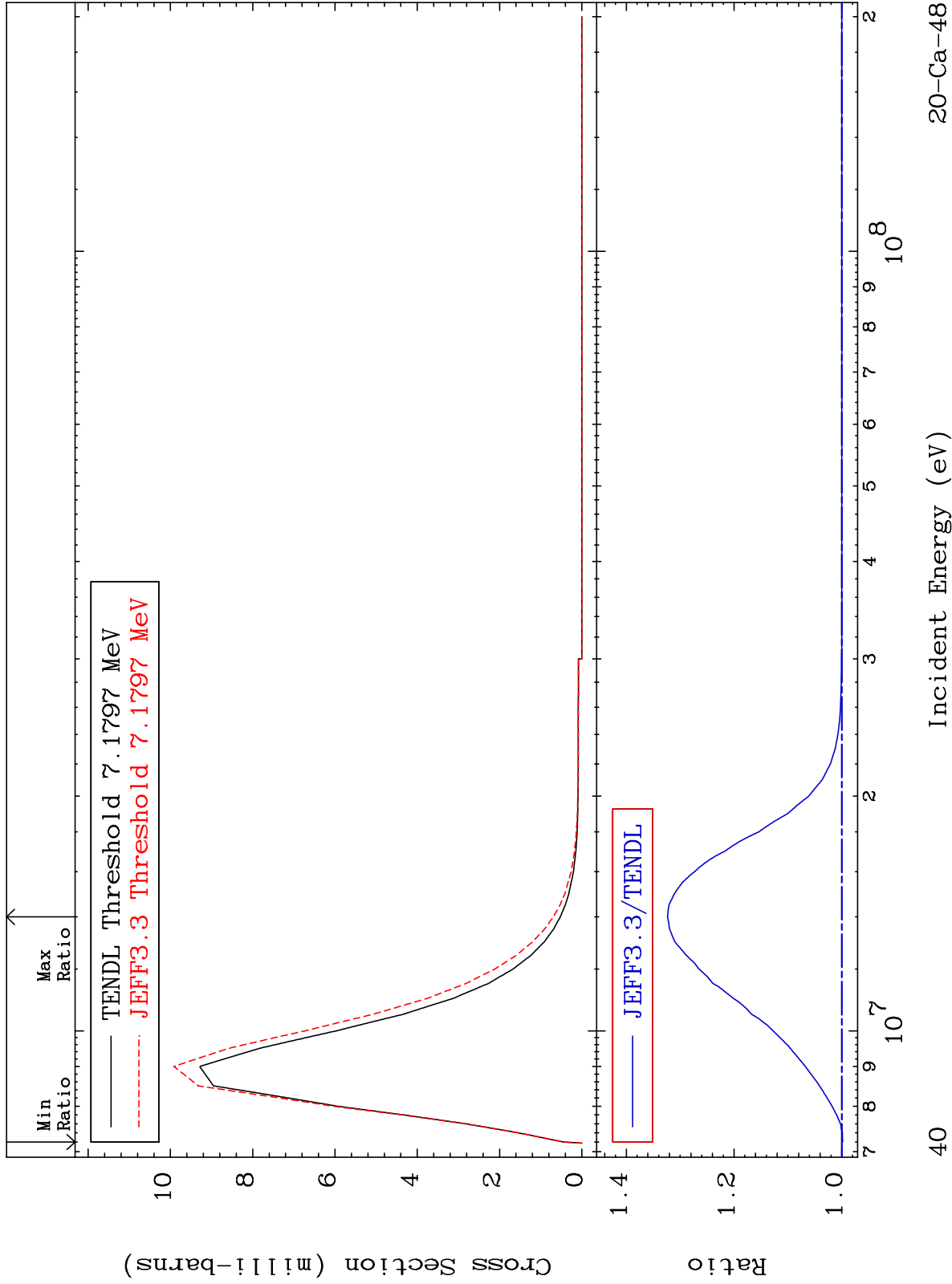
Incident Energy (eV)

20-Ca-48

MAT 2049

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

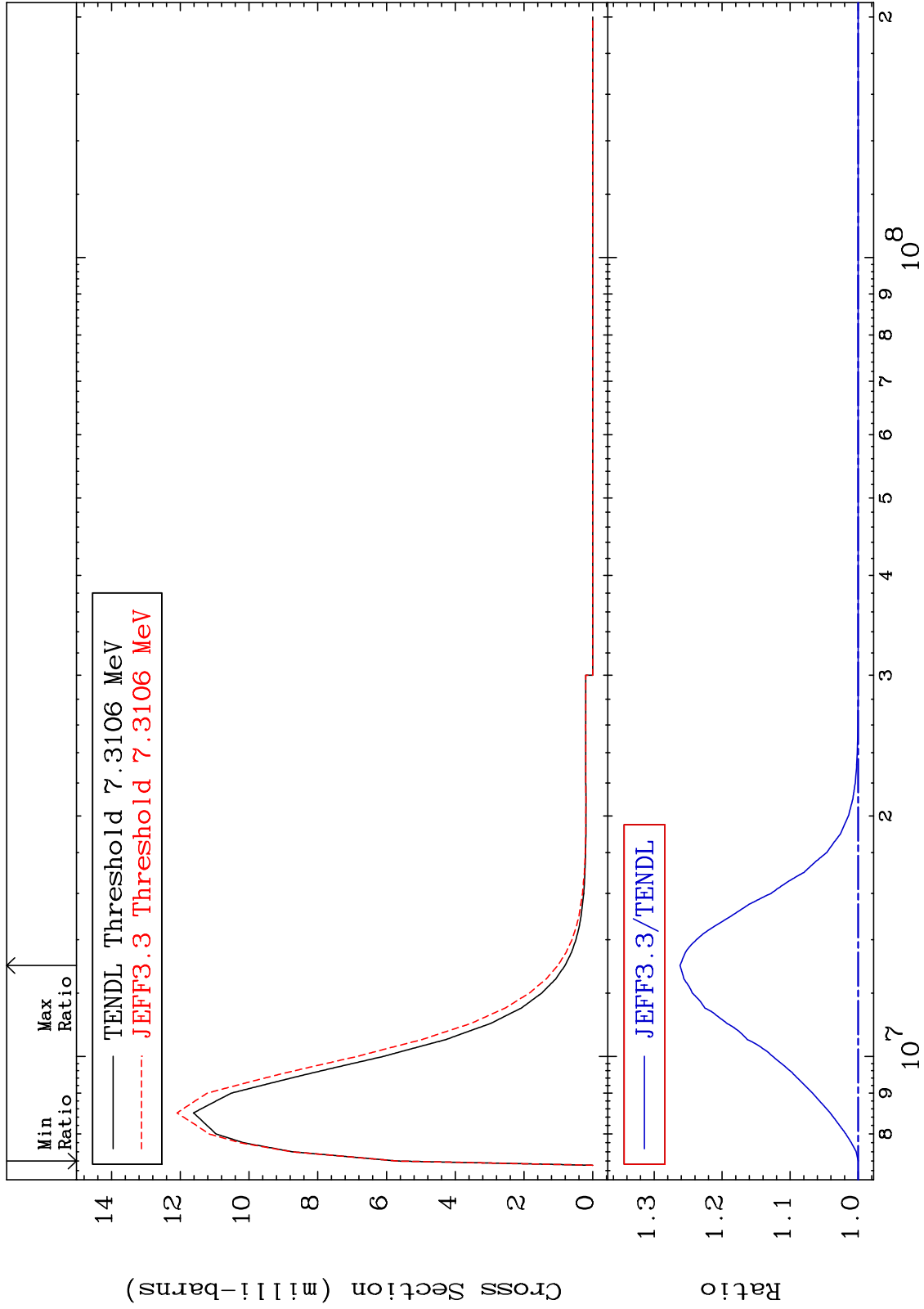
20-Ca-48
-0.174 To 32.35 %



MAT 2049

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

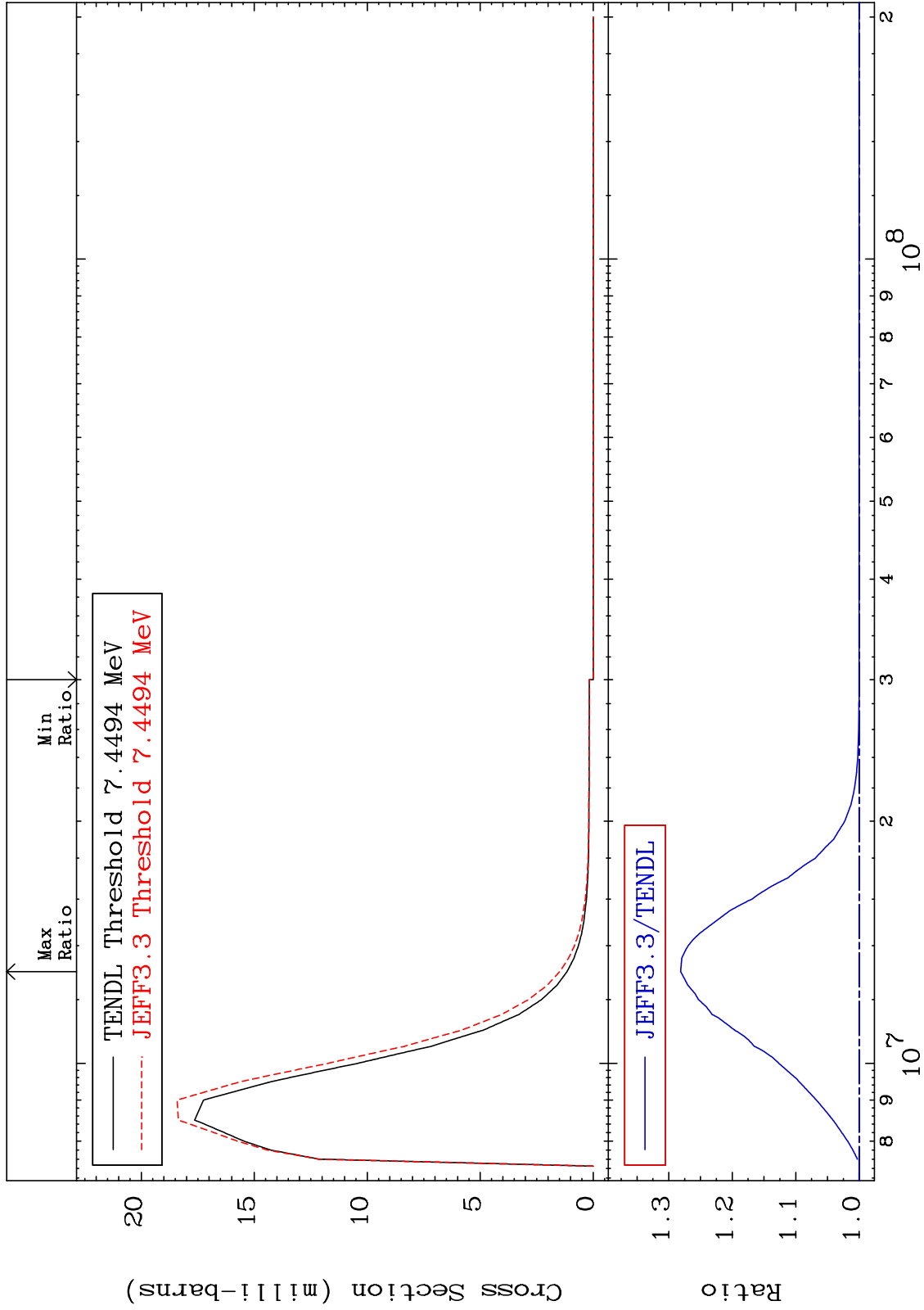
20-Ca-48
-0.037 To 26.20 %



MAT 2049

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

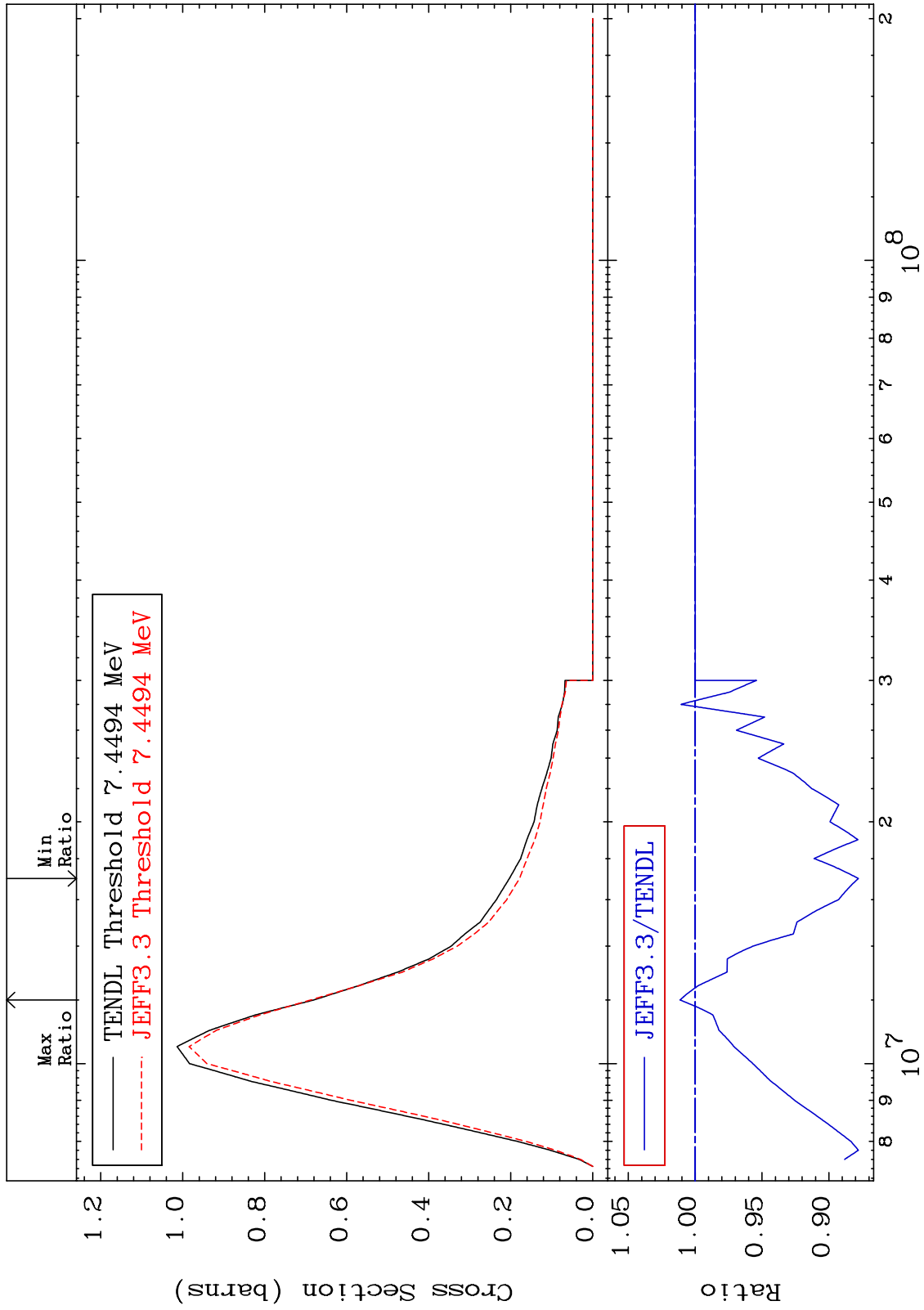
20-Ca-48
0.000 To 28.13 %



MAT 2049

(n,n') Continuum
Cross Section

20-Ca-48
-12.21 To 1.135 %



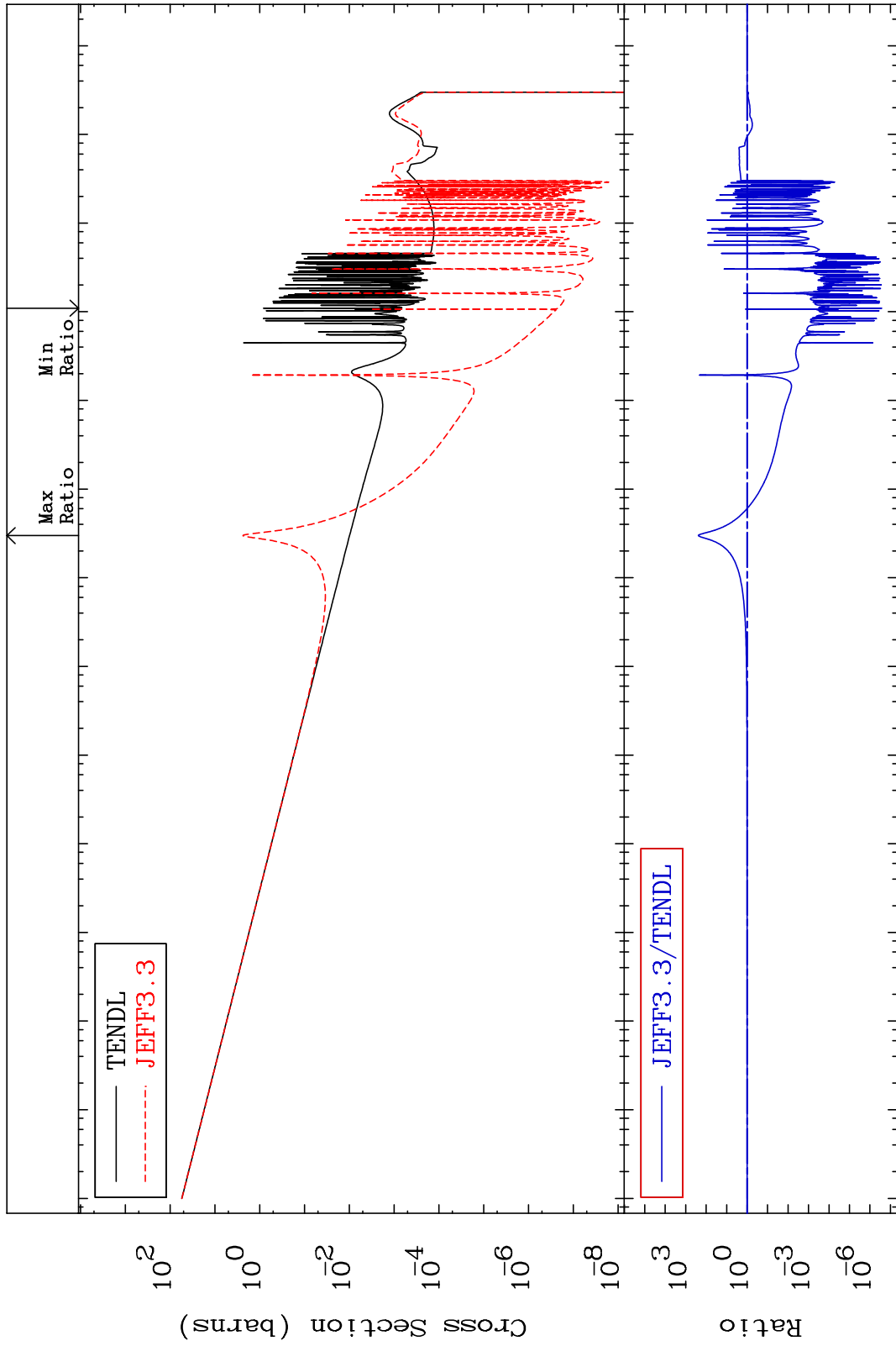
MAT 2049

20-Ca-48

-100.0 To 9999. %

(n, γ)

Cross Section



Incident Energy (eV) 20-Ca-48

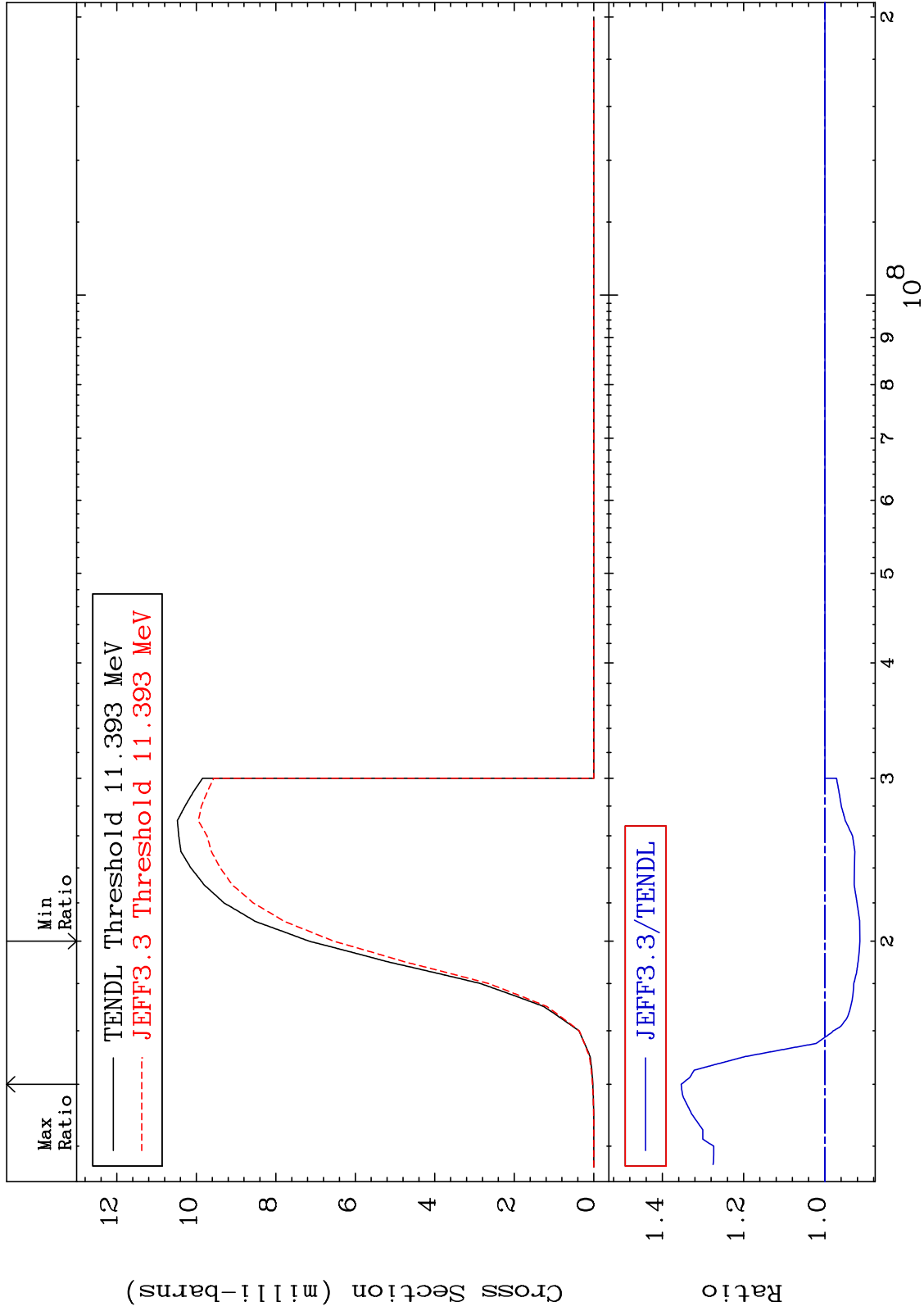
MAT 2049

(n,p)

20-Ca-48

Cross Section

-8.624 To 35.37 %



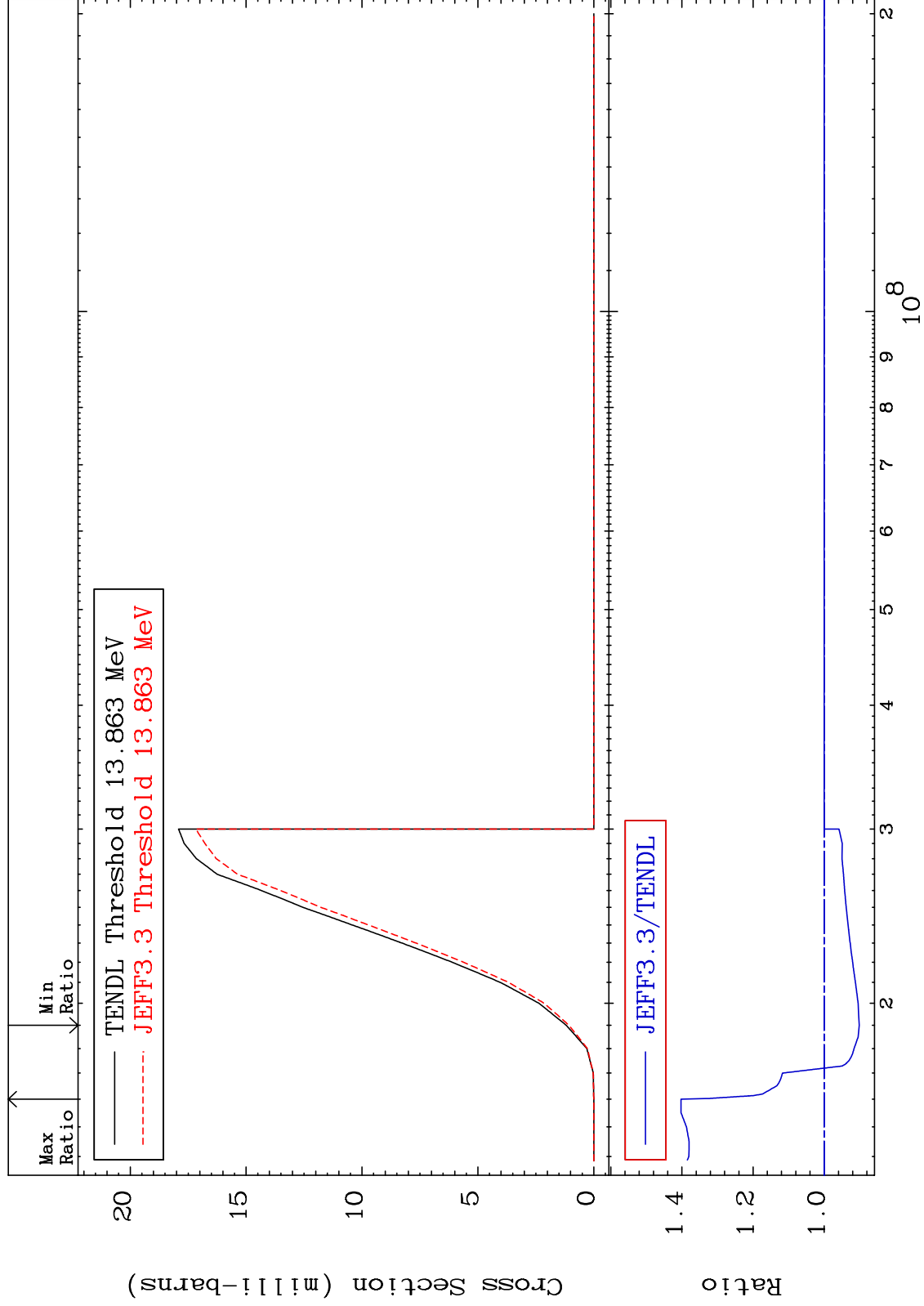
MAT 2049

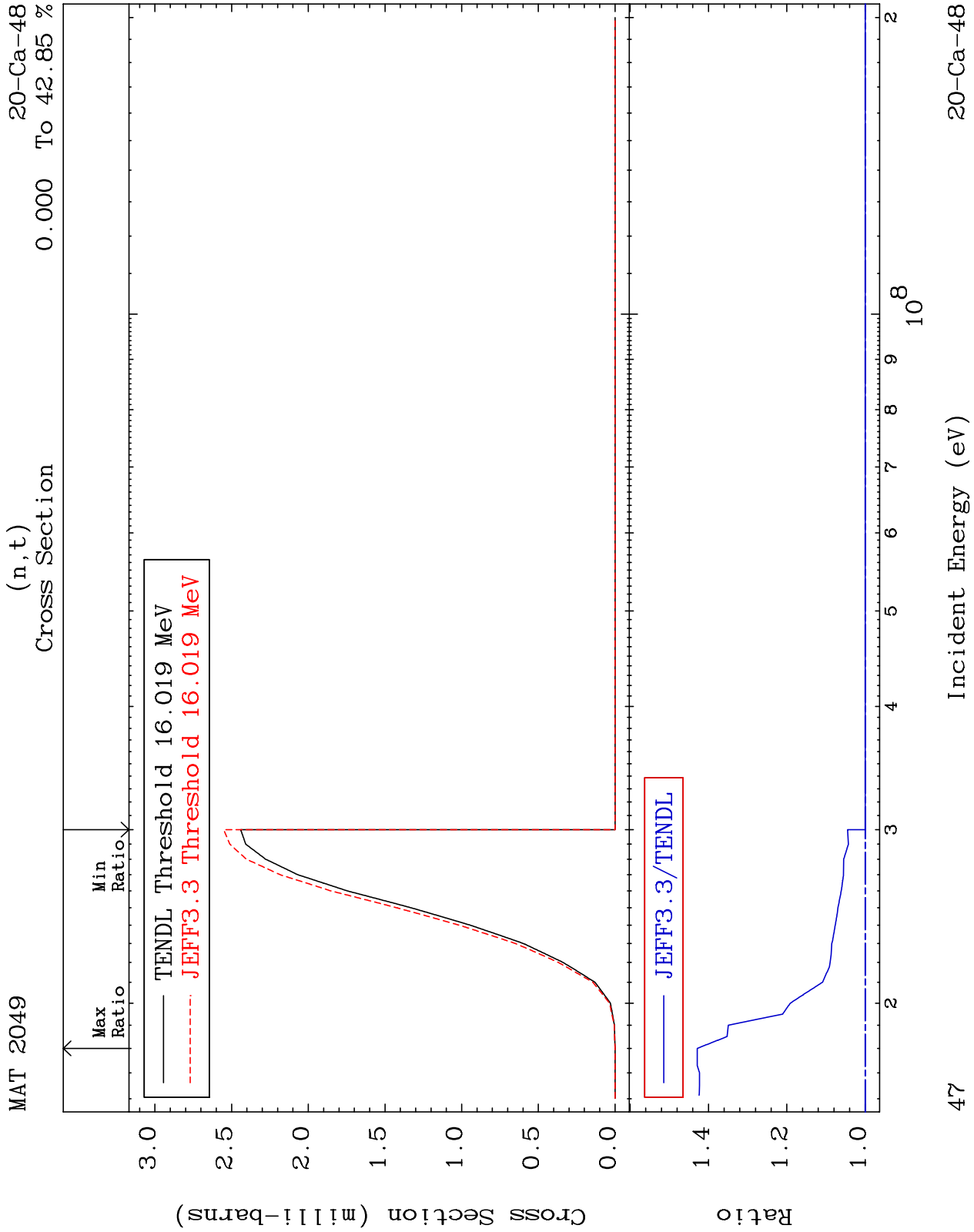
(n,d)

20-Ca-48

Cross Section

-9.858 To 40.25 %





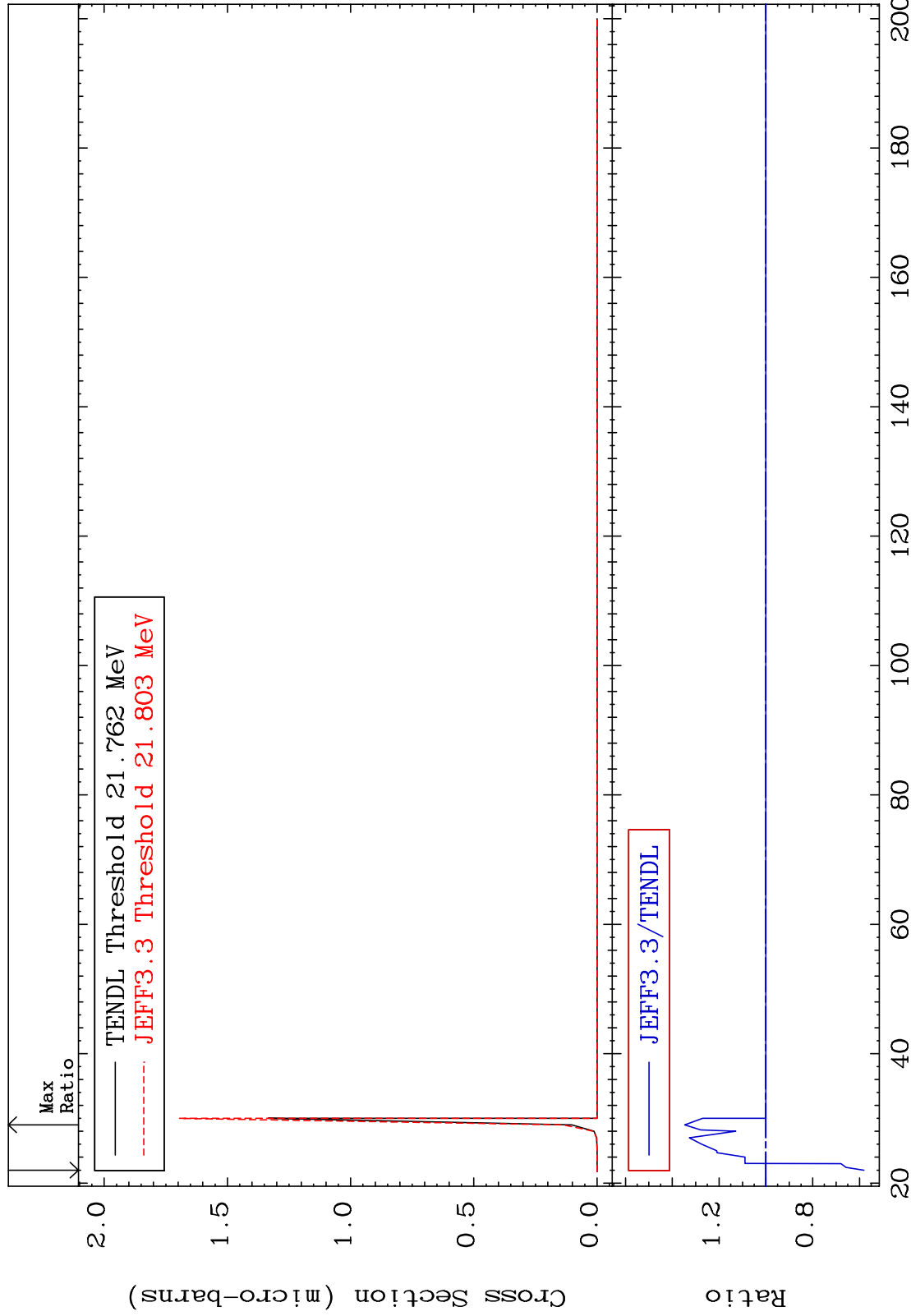
MAT 2049

(n, He-3)

20-Ca-48

Cross Section

-41.94 To 34.65 %



20-Ca-48

Incident Energy (MeV)

48

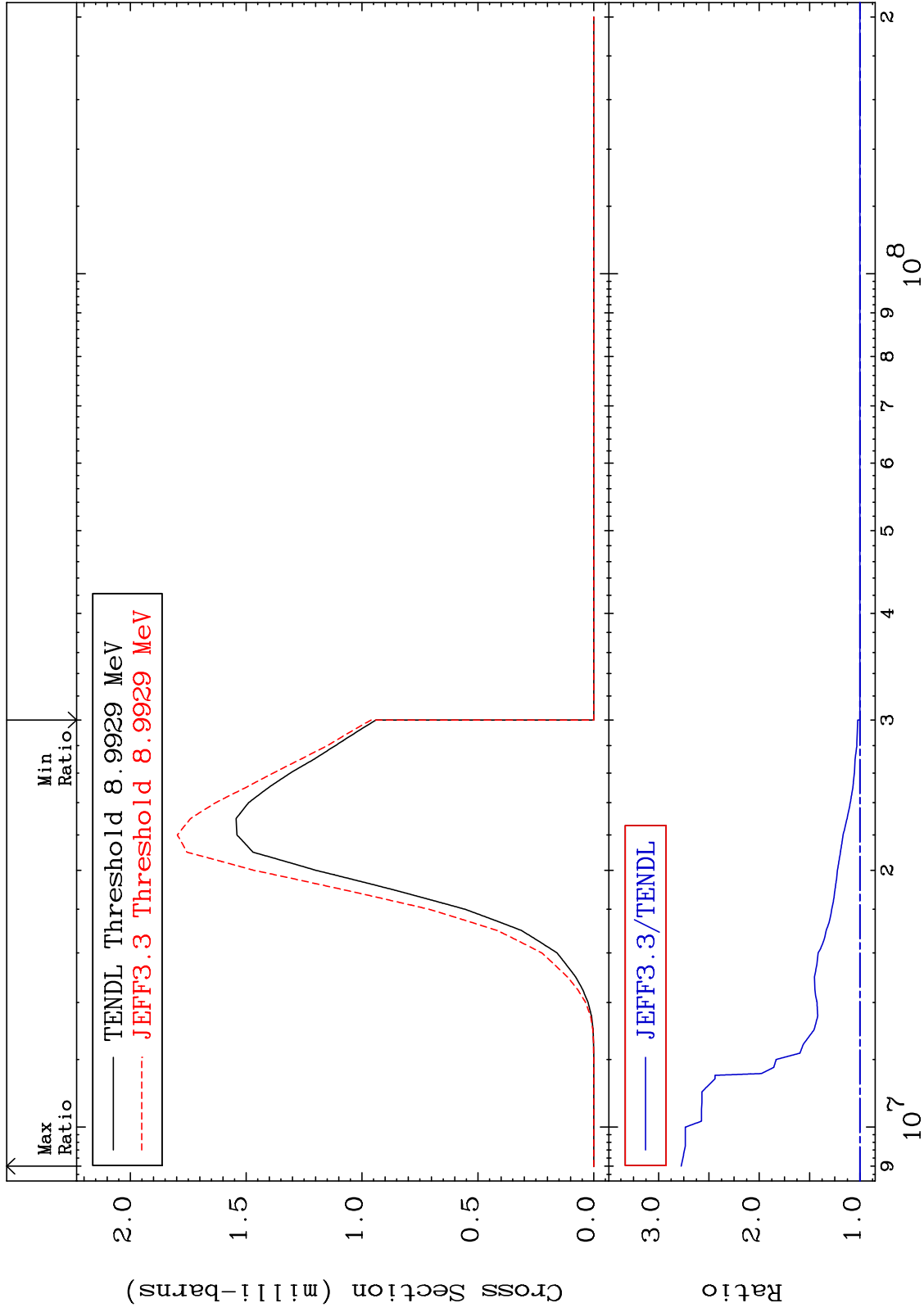
MAT 2049

(n, α)

20-Ca-48

Cross Section

0.000 To 177.5 %



49

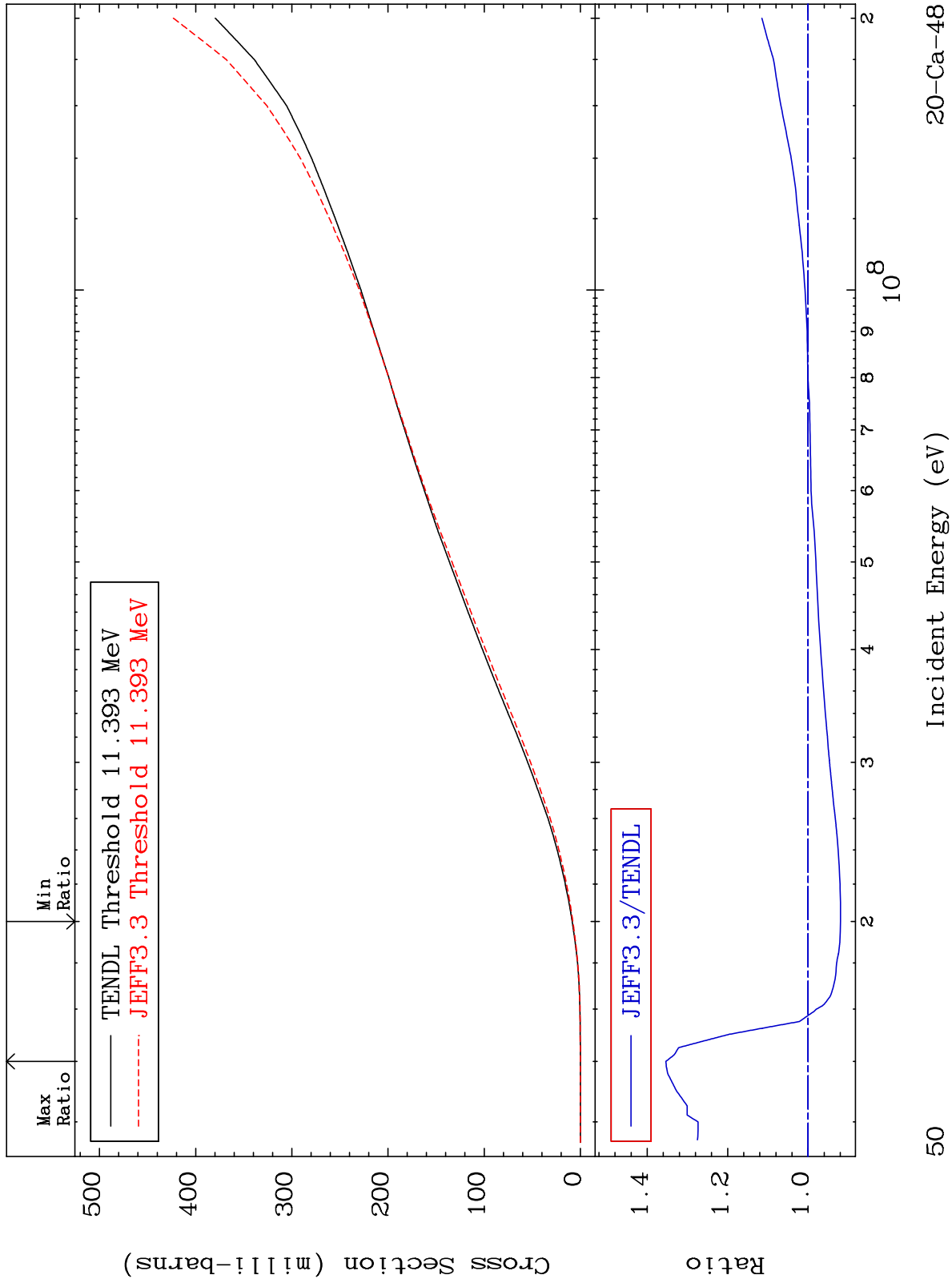
Incident Energy (eV)

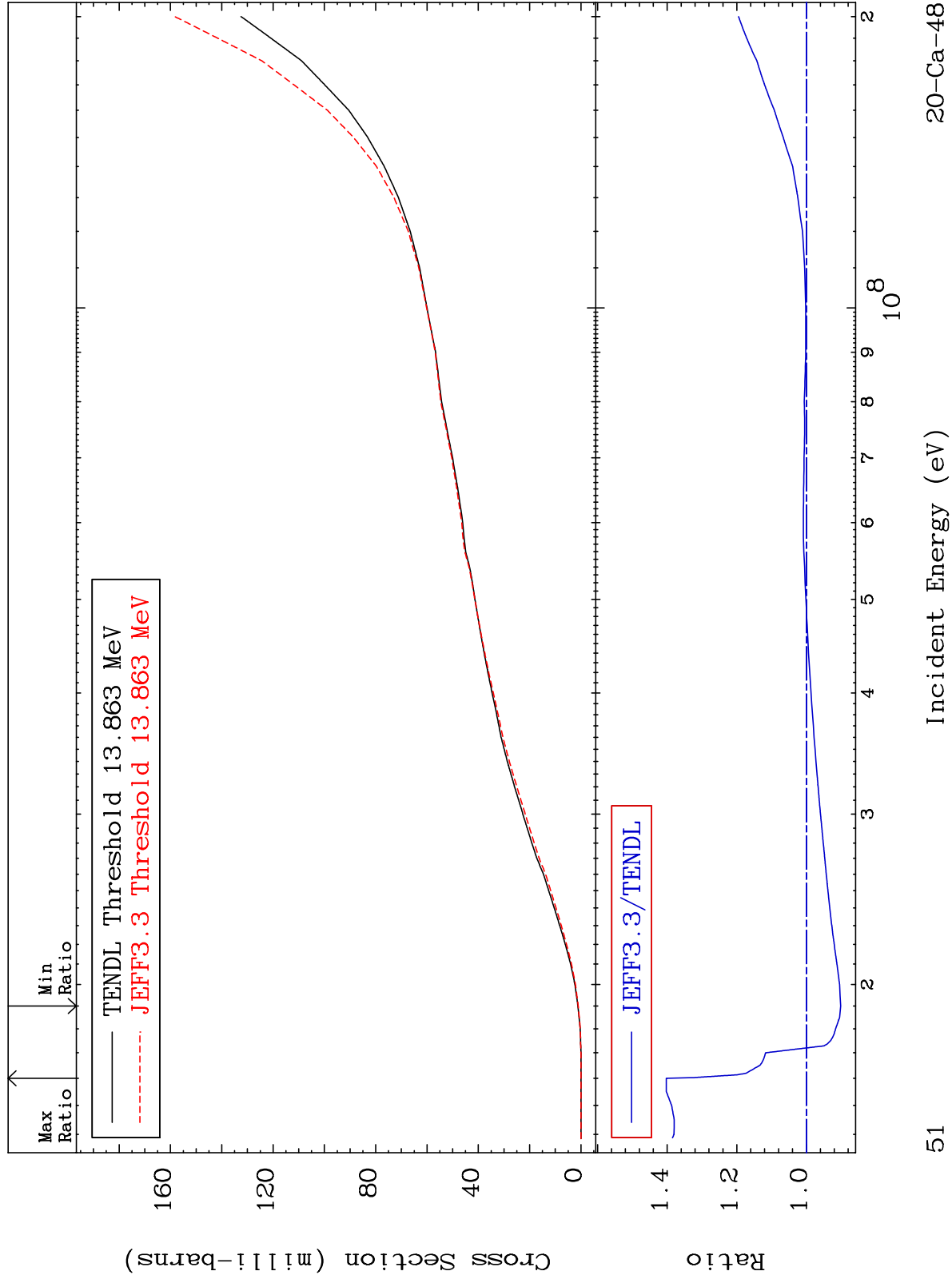
20-Ca-48

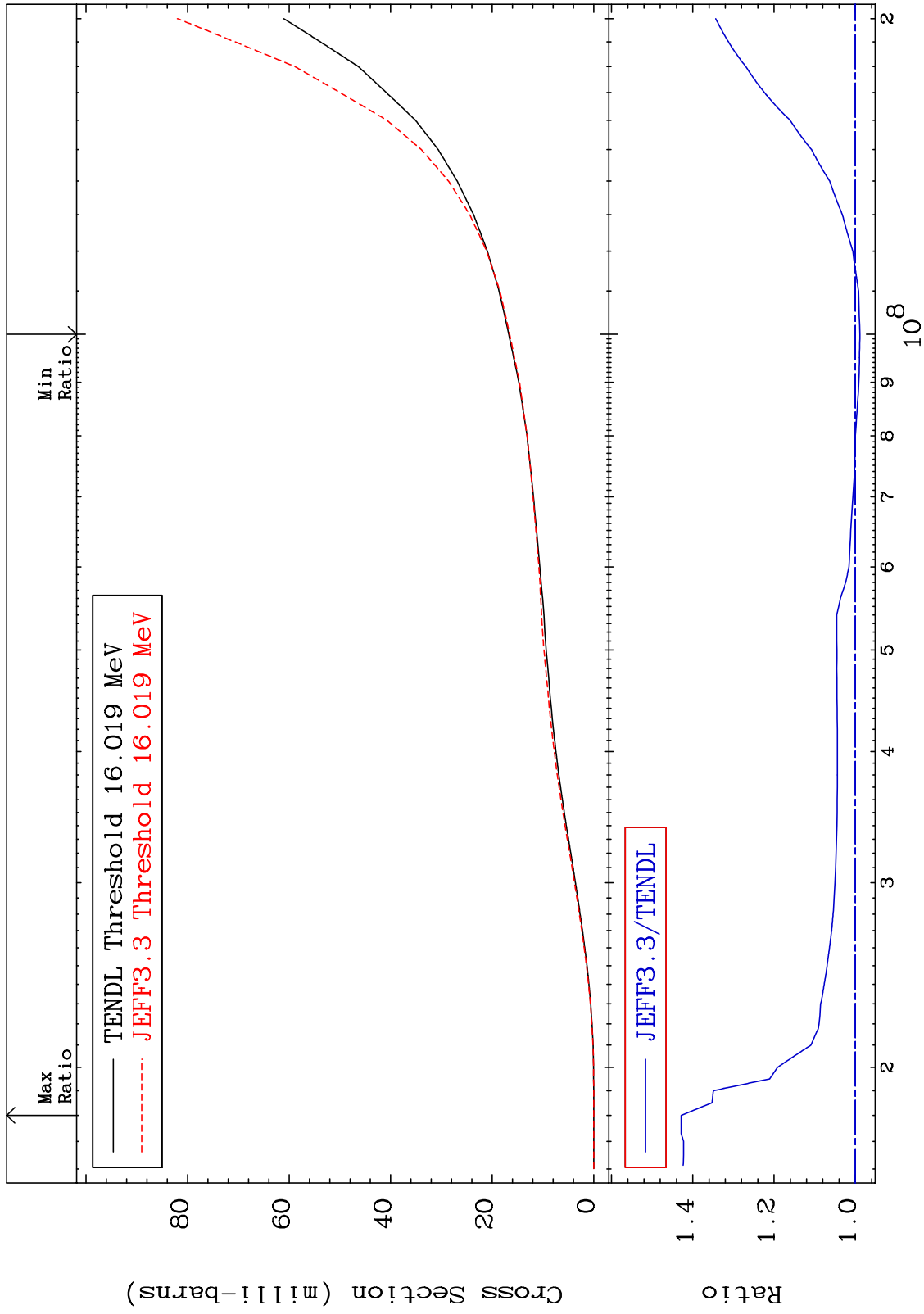
MAT 2049

Hydrogen Production
Cross Section

20-Ca-48
-8.074 To 35.37 %



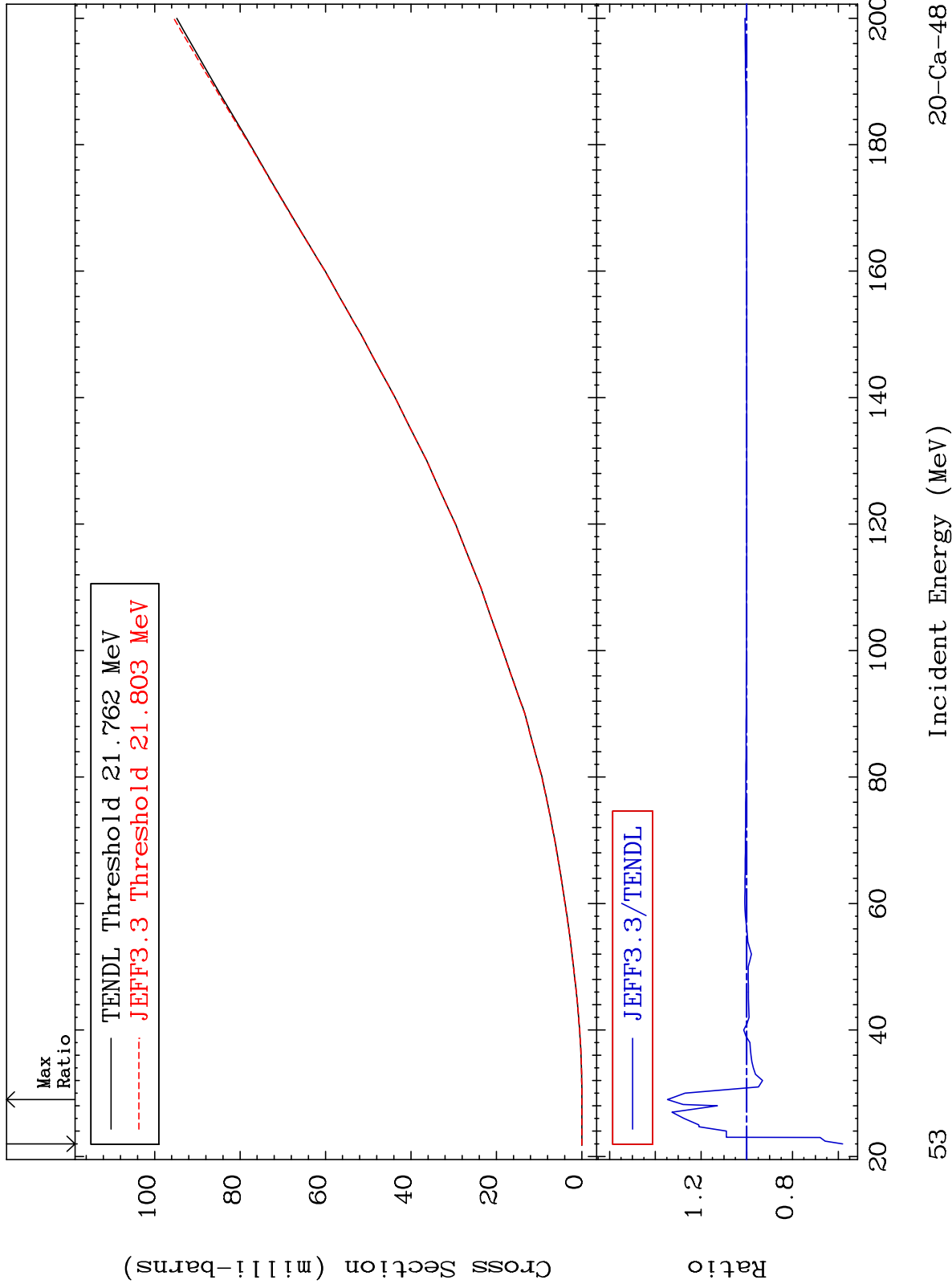




MAT 2049

He-3 Production
Cross Section

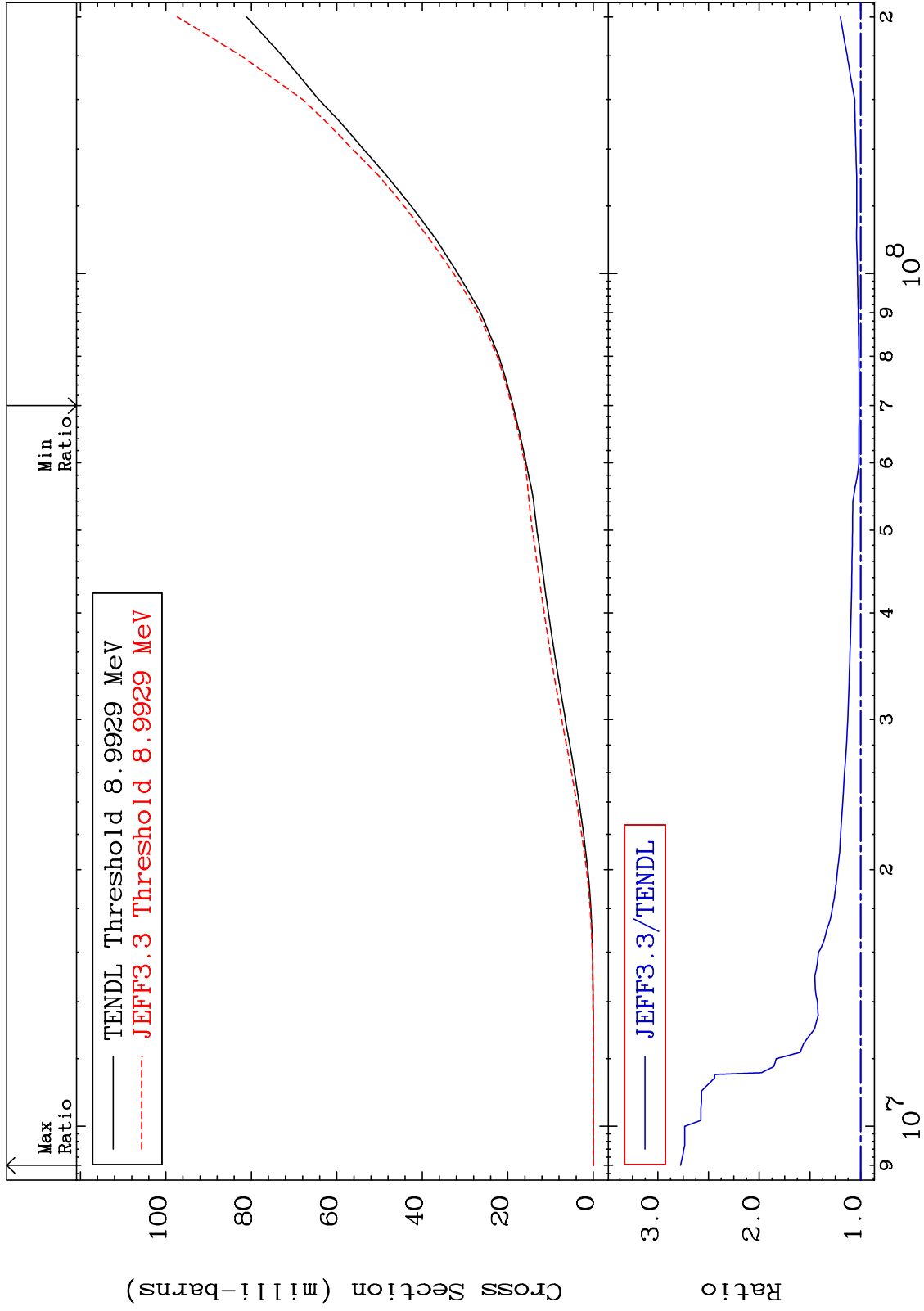
20-Ca-48
-41.94 To 34.65 %



MAT 2049

He-4 Production
Cross Section

20-Ca-48
1.473 To 177.5 %



54

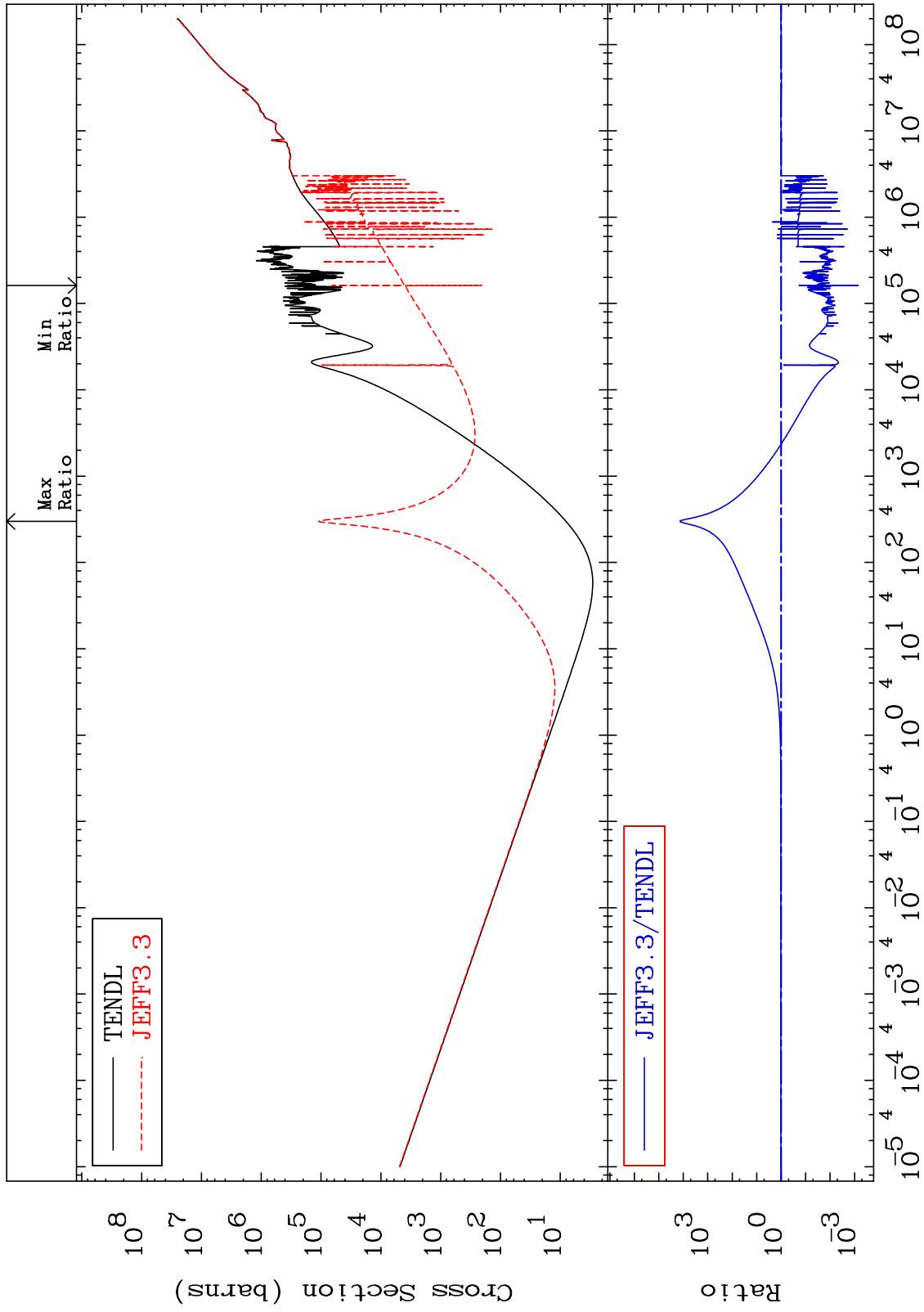
Incident Energy (eV)

20-Ca-48

MAT 2049

Kerma total (eV-barns)
Cross Section

20-Ca-48
-99.93 To 9999. %



55

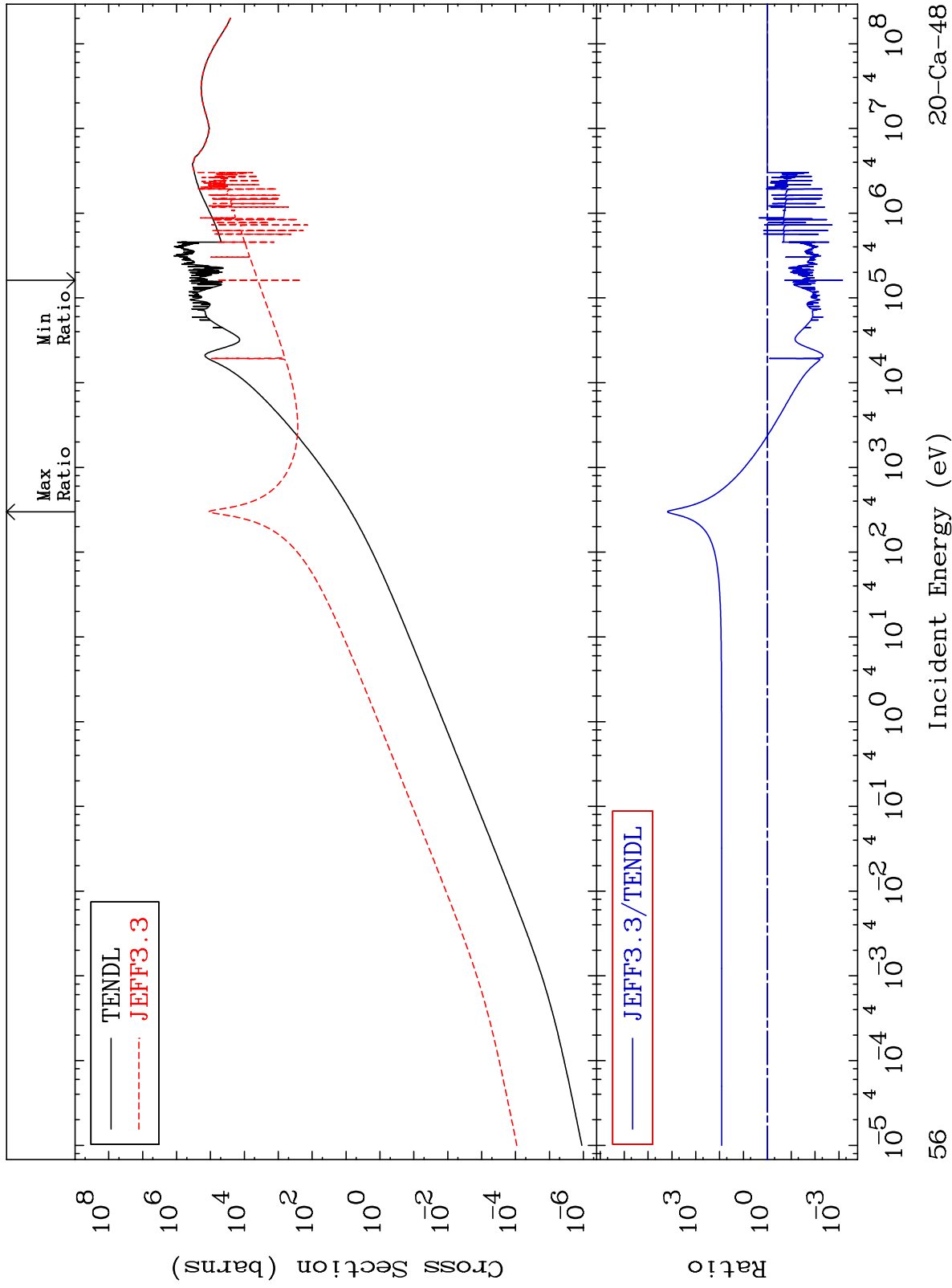
Incident Energy (eV)

20-Ca-48

MAT 2049

Kerma elastic
Cross Section

20-Ca-48
-99.93 To 9999. %



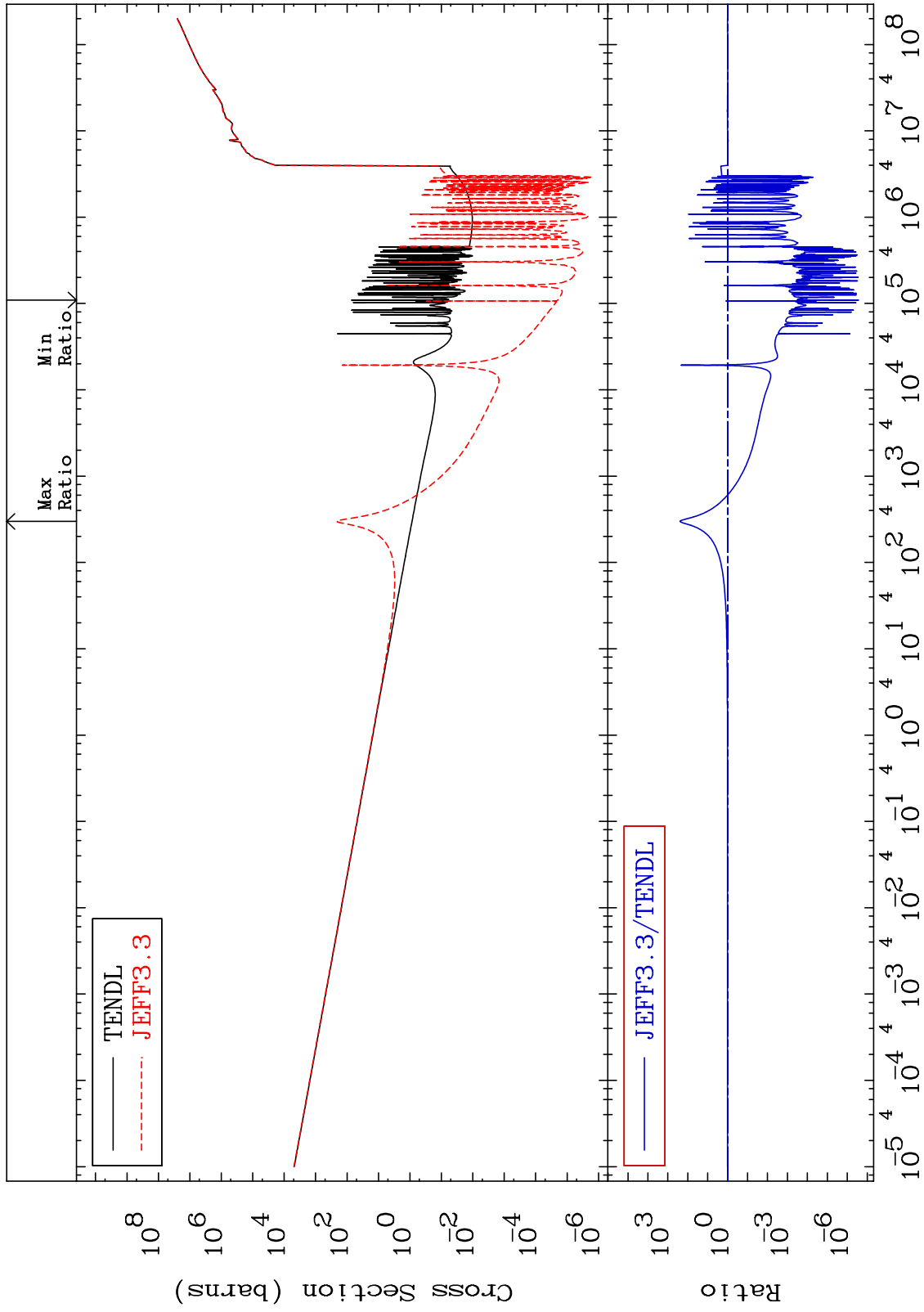
56

20-Ca-48

MAT 2049

Kerma non-elastic (all but mt2)
Cross Section

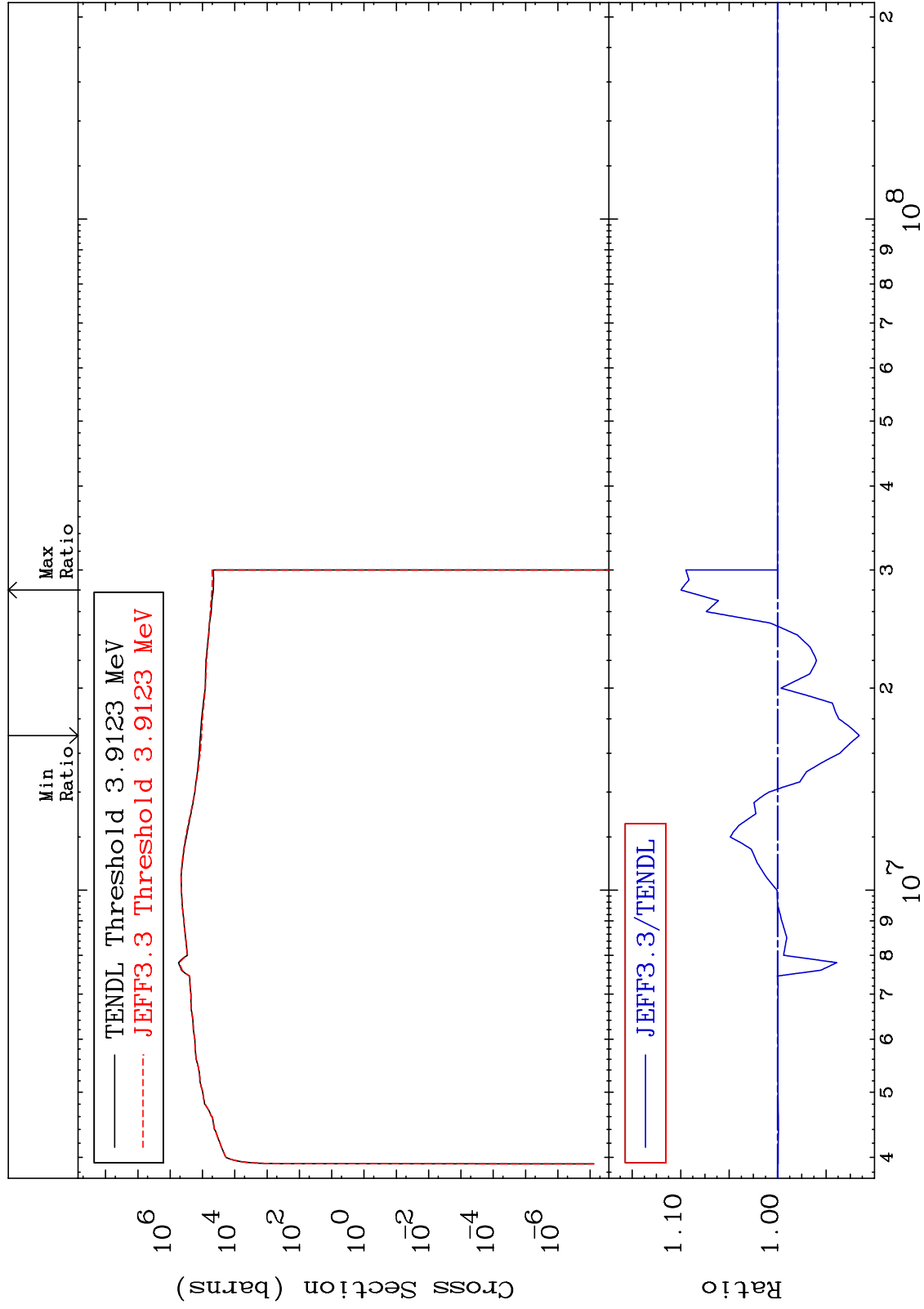
20-Ca-48
-100.0 To 9999. %



57

Incident Energy (eV)

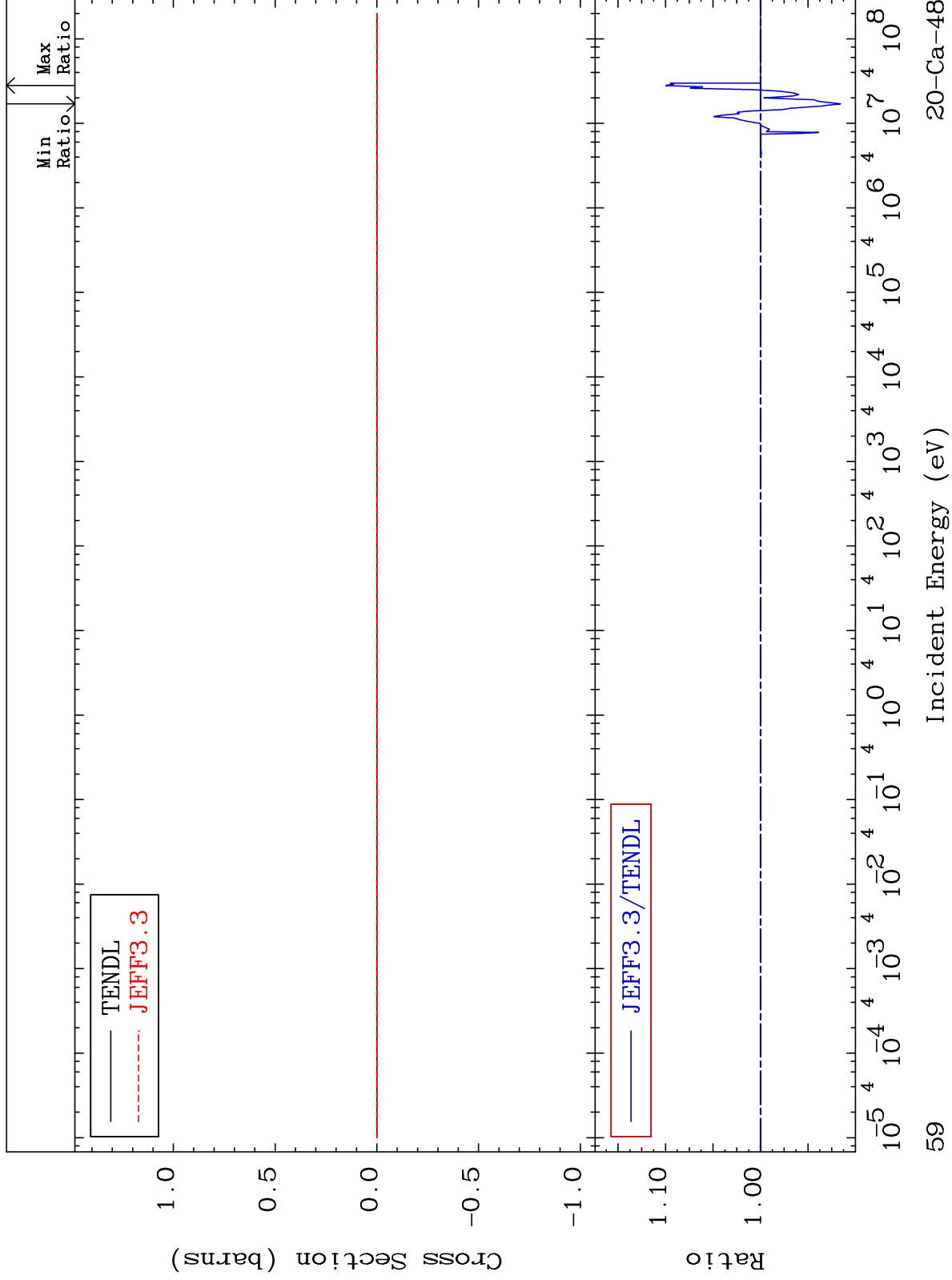
20-Ca-48



MAT 2049

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

20-Ca-48
-8.432 To 9.962 %



59

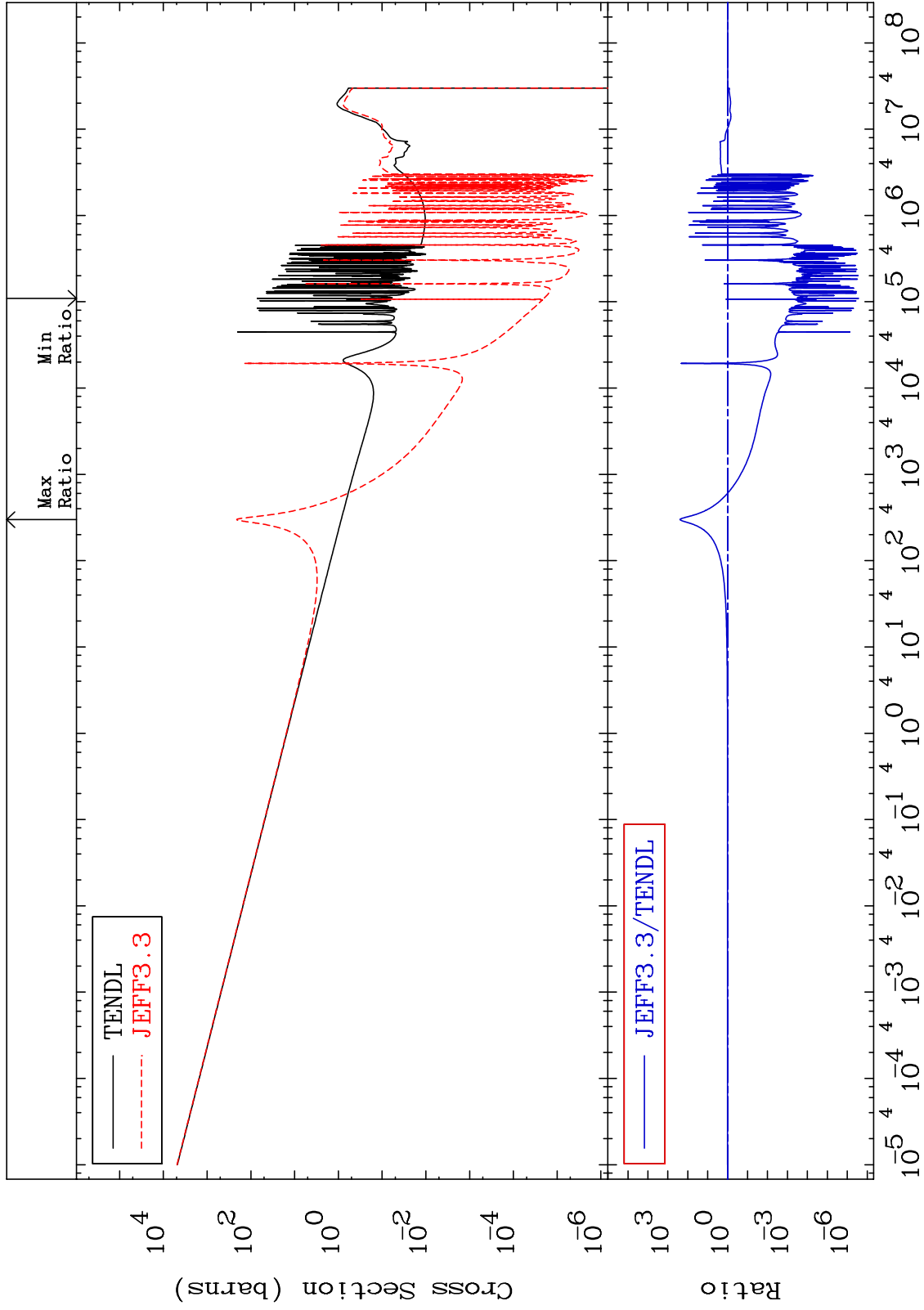
Incident Energy (eV)

20-Ca-48

MAT 2049

Kerma capture (mt102)
Cross Section

20-Ca-48
-100.0 To 9999. %



60

Incident Energy (eV)

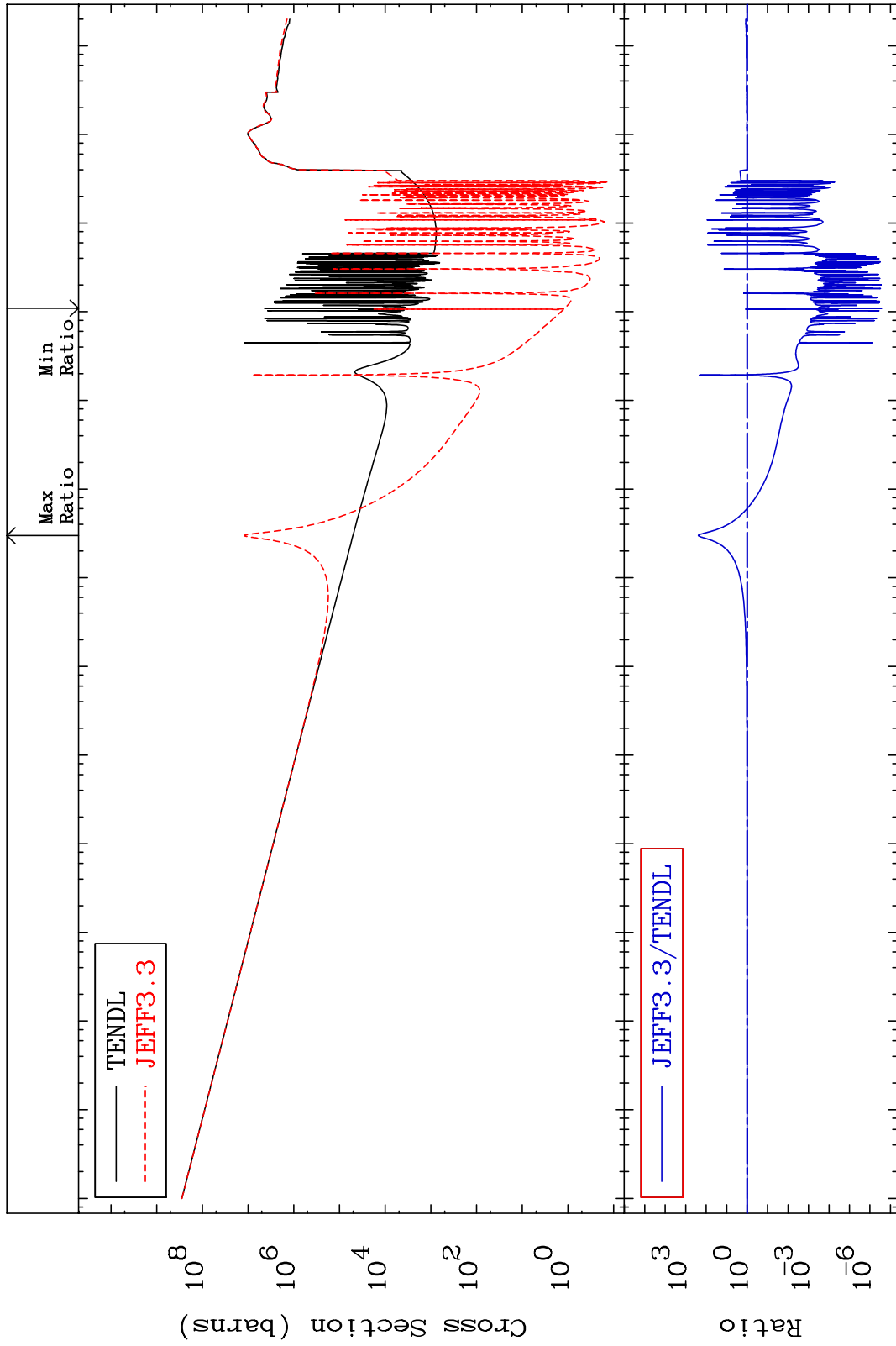
20-Ca-48

MAT 2049

Total photon (eV-barns)
Cross Section

20-Ca-48

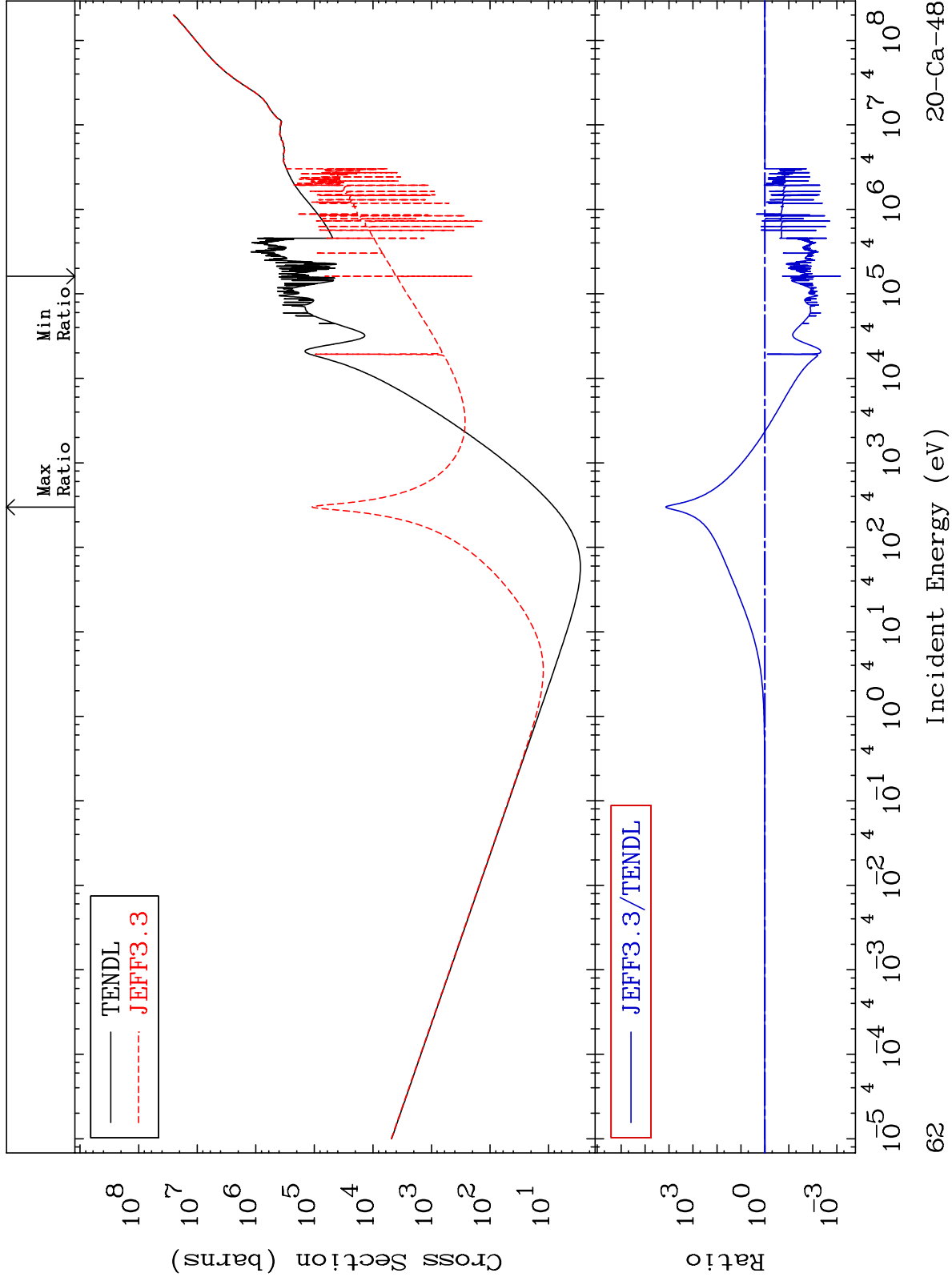
-100.0 To 9999. %



MAT 2049

Total kinematic kerma (high limit)
Cross Section

20-Ca-48
-99.93 To 9999. %



62

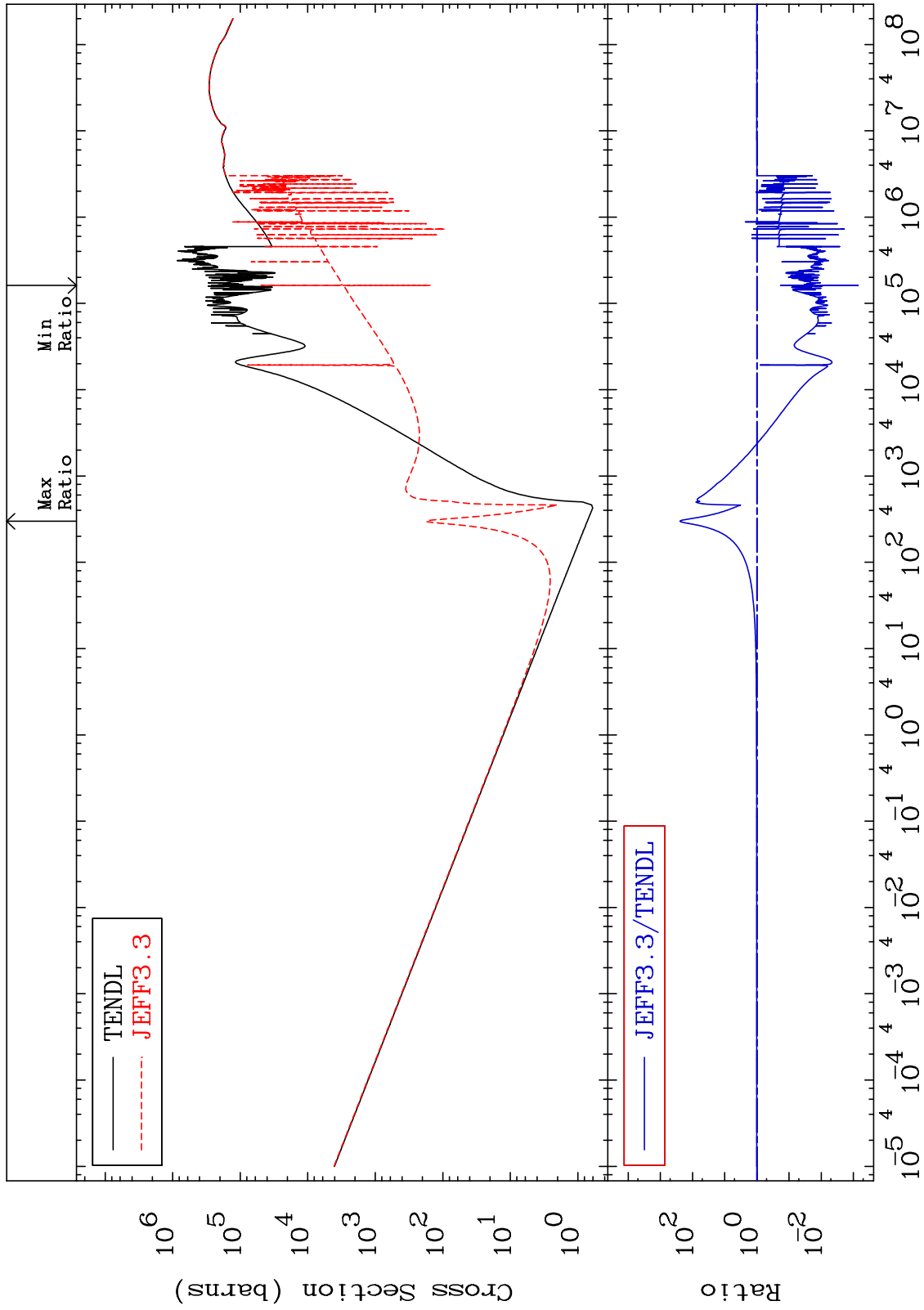
Incident Energy (eV)

20-Ca-48

MAT 2049

Dpa total (eV-barns)
Cross Section

20-Ca-48
-99.93 To 9999. %



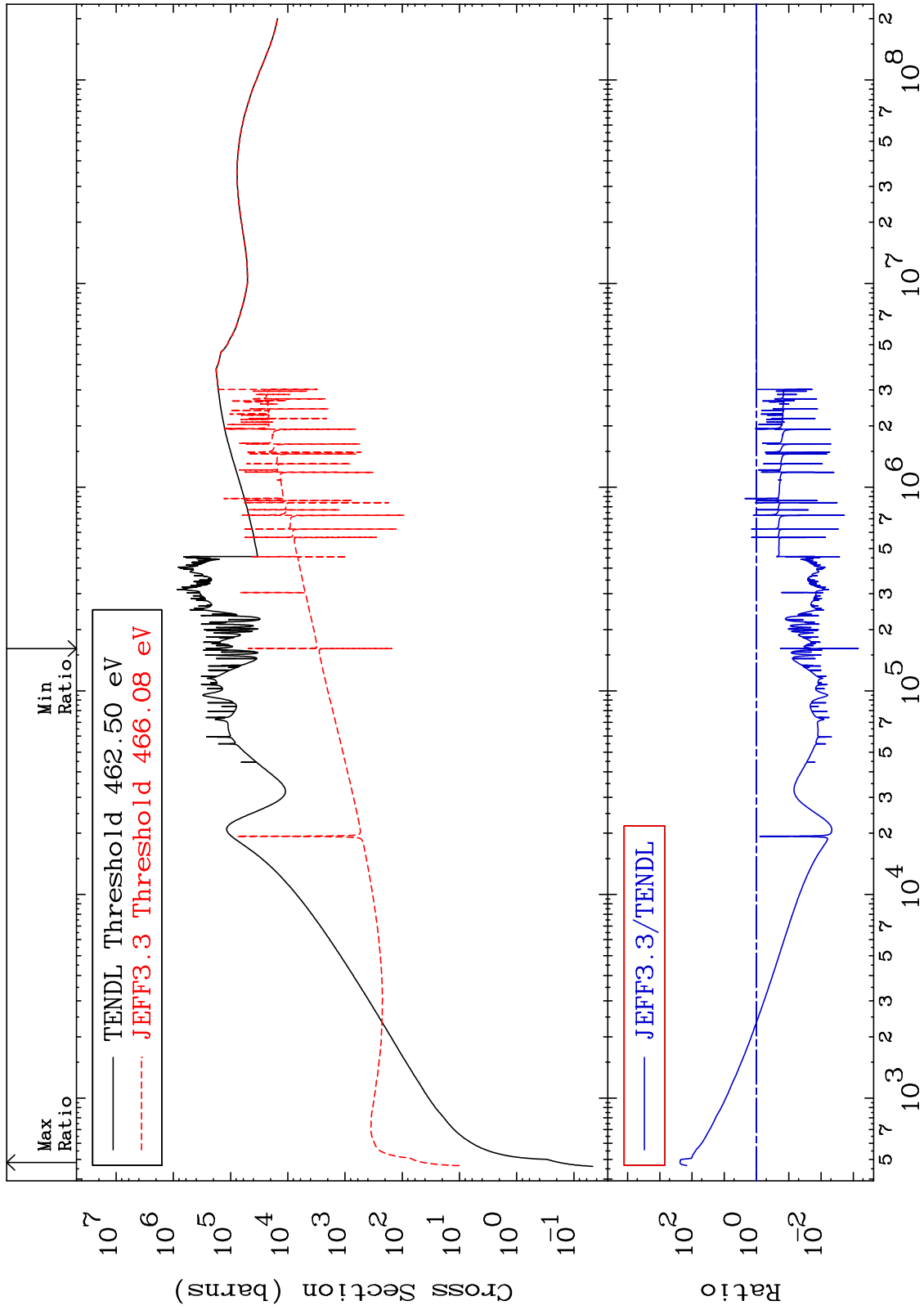
63

20-Ca-48

MAT 2049

Dpa elastic (mt2)
Cross Section

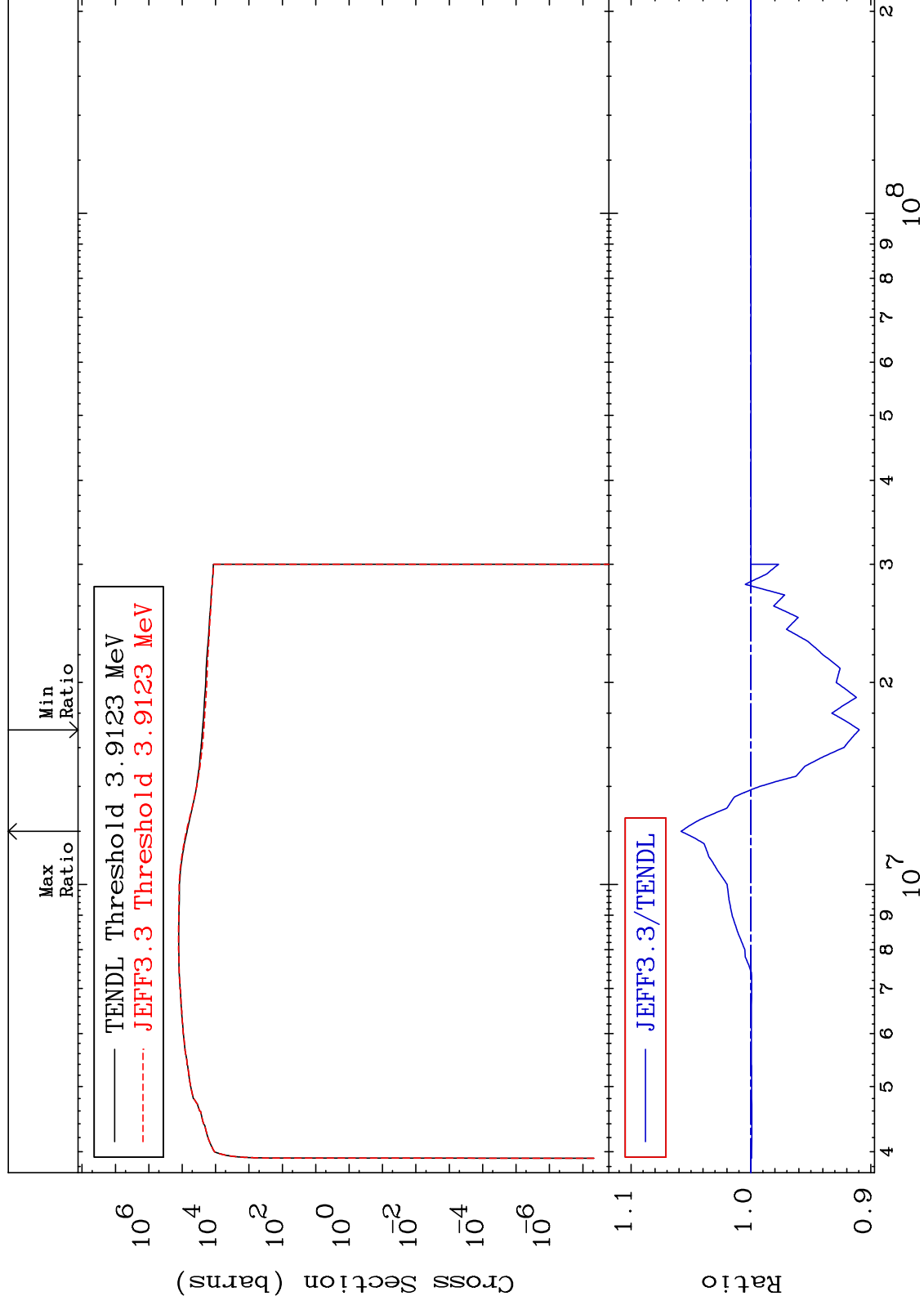
20-Ca-48
-99.93 To 9999. %



MAT 2049

Dpa inelastic (mt51-91)
Cross Section

20-Ca-48
-9.039 To 5.828 %



65

Incident Energy (eV)

20-Ca-48

MAT 2049

Dpa disappearance (mt102 -120)
Cross Section

20-Ca-48
-100.0 To 9999. %

