

Program Complot
(Version 2018-1)

by

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Press Mouse Button to Start

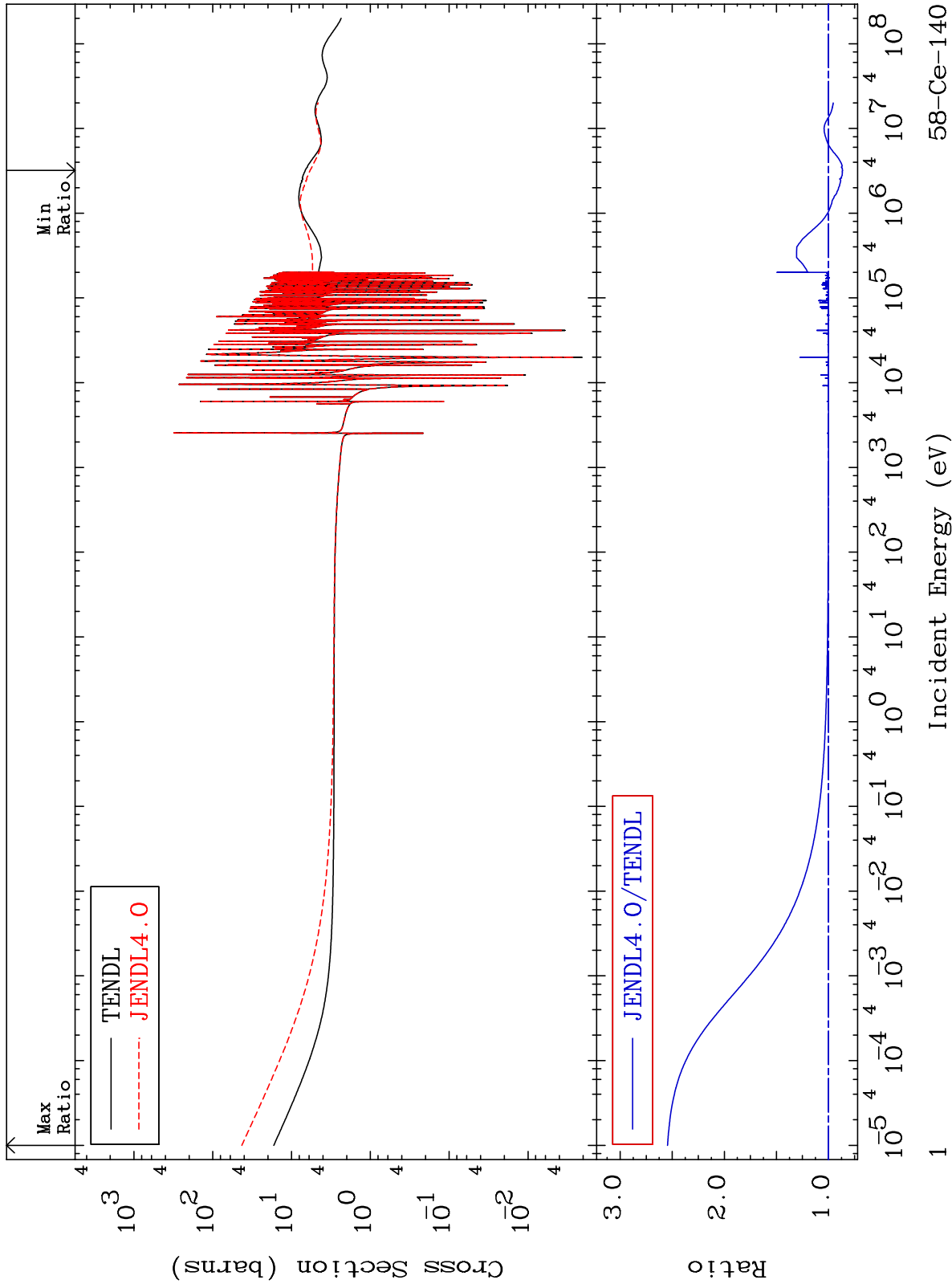
MAT 5837

Total

58-Ce-140

Cross Section

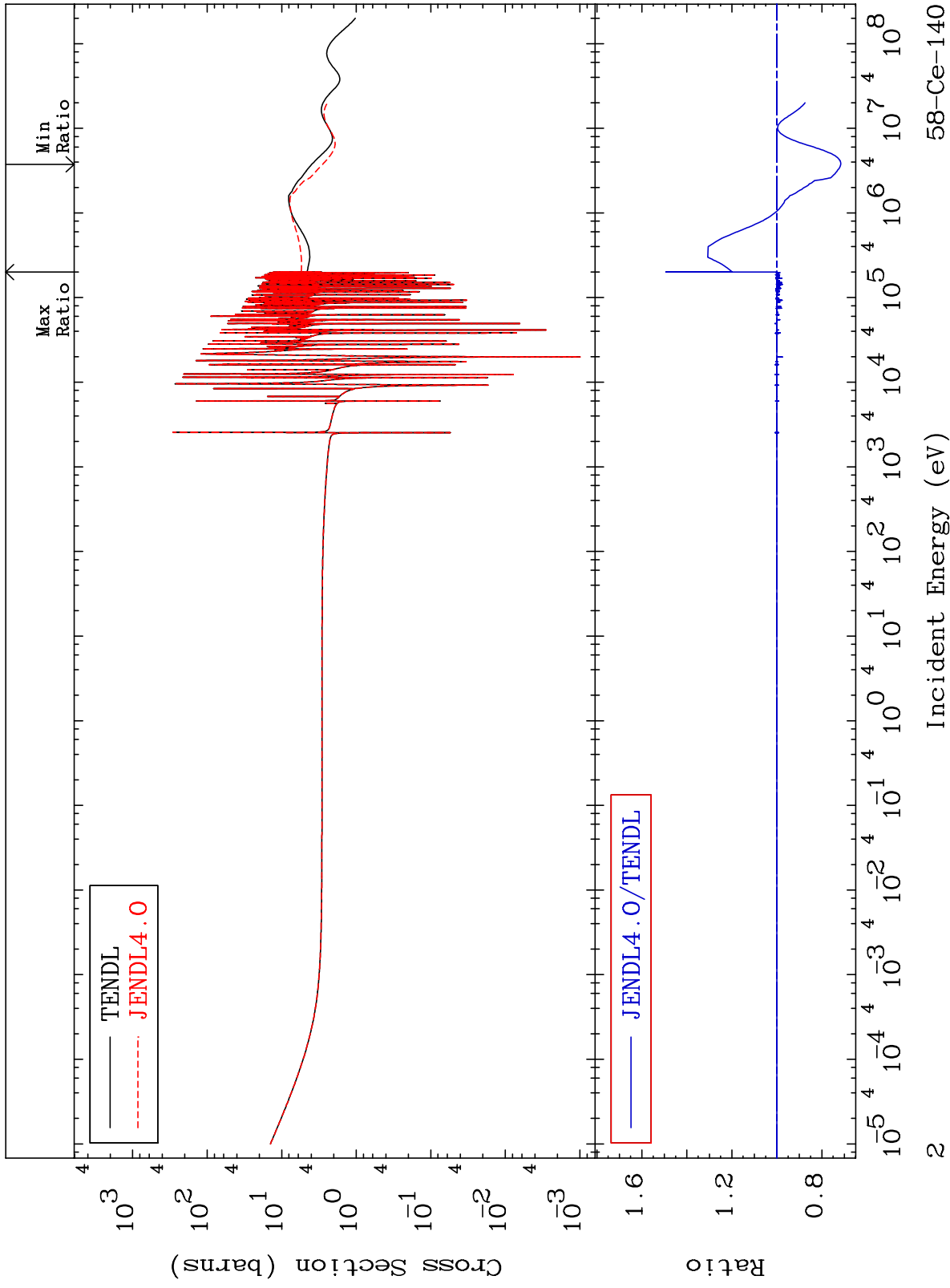
-13.59 To 154.5 %



MAT 5837

Elastic
Cross Section

58-Ce-140
-28.42 To 49.32 %

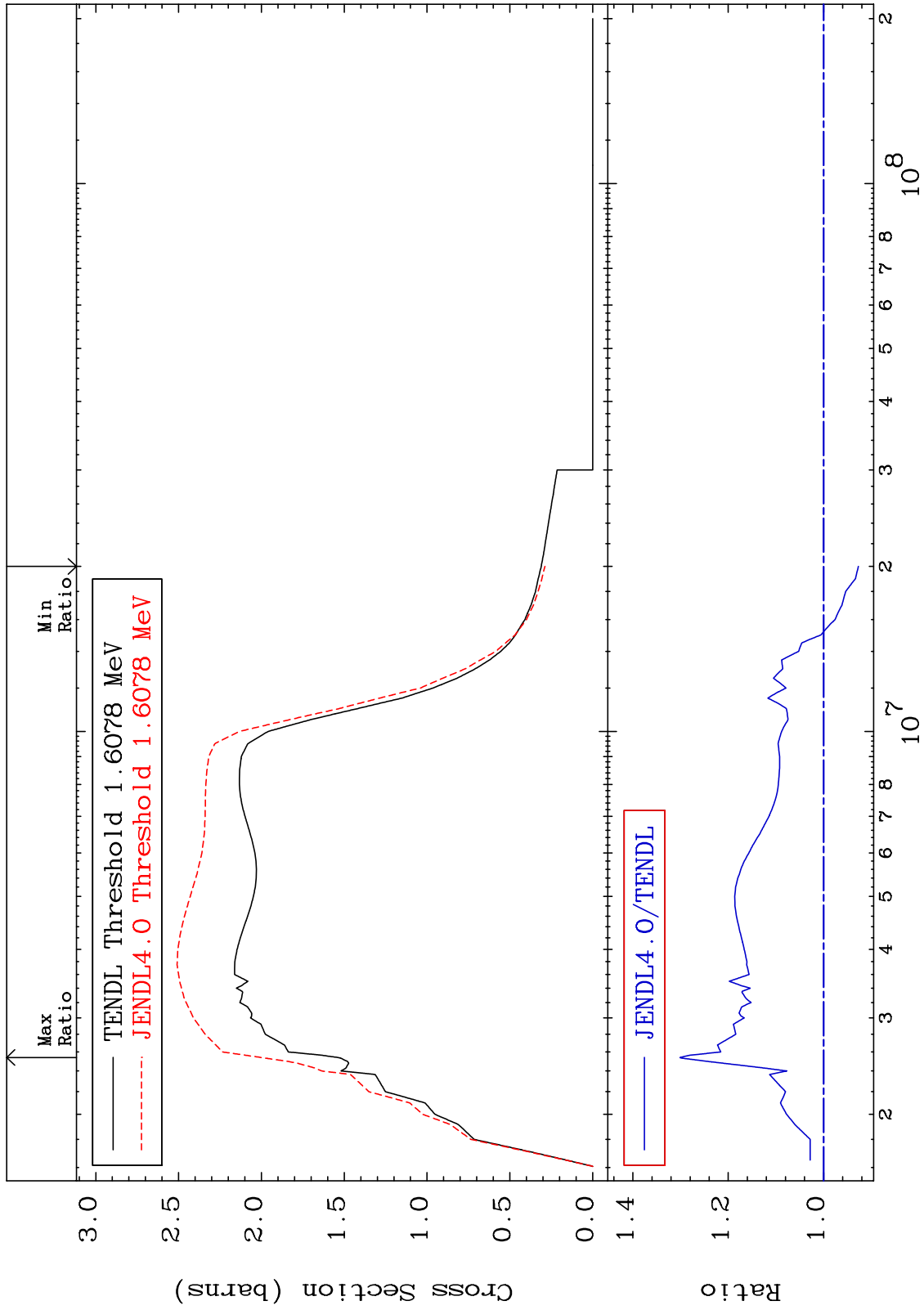


Incident Energy (eV)

58-Ce-140

2

MAT 5837 Inelastic Cross Section 58-Ce-140 -7.292 To 30.12 %



3 58-Ce-140

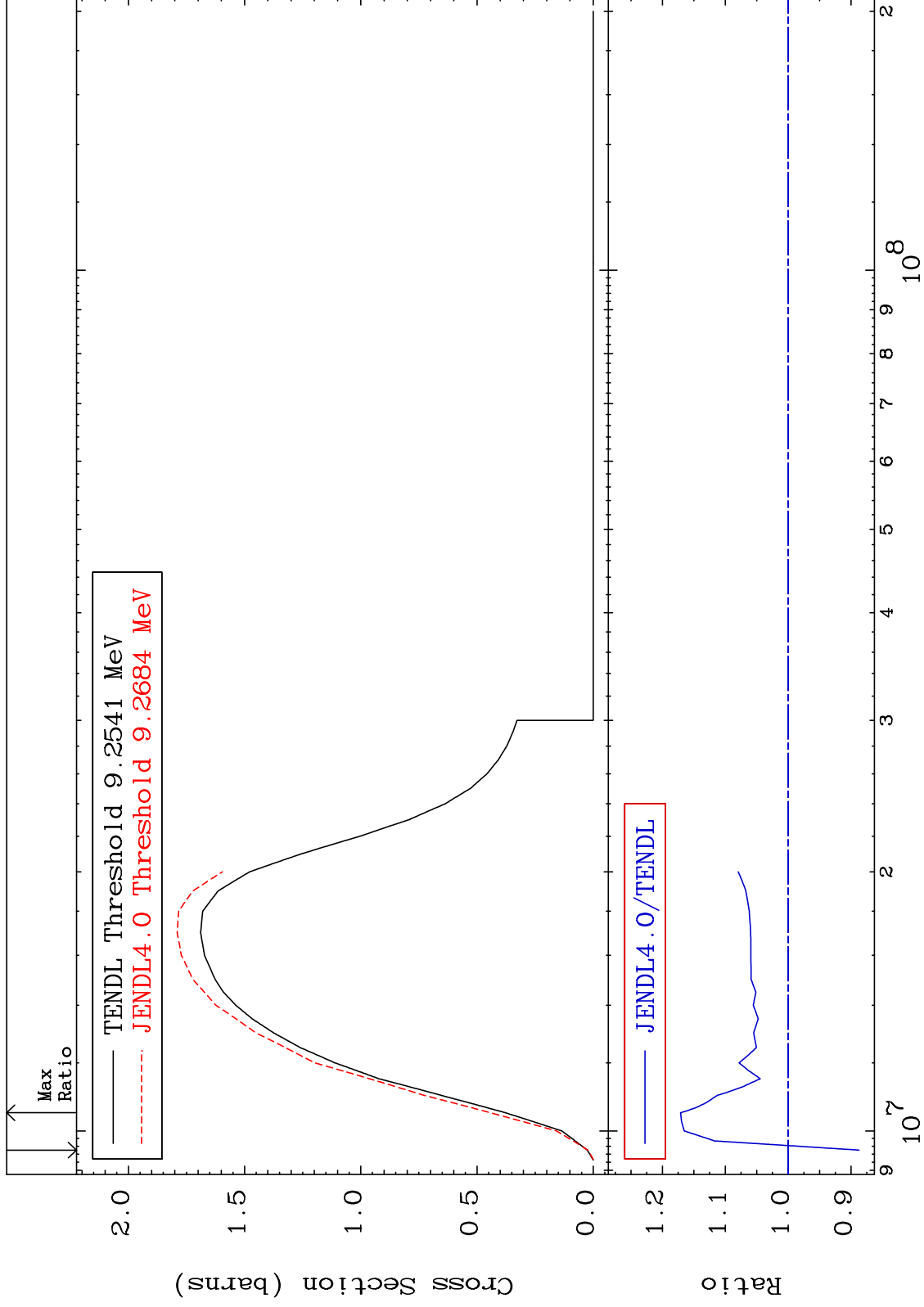
MAT 5837

(n,2n)

58-Ce-140

Cross Section

-11.28 To 17.10 %



4

Incident Energy (eV)

58-Ce-140

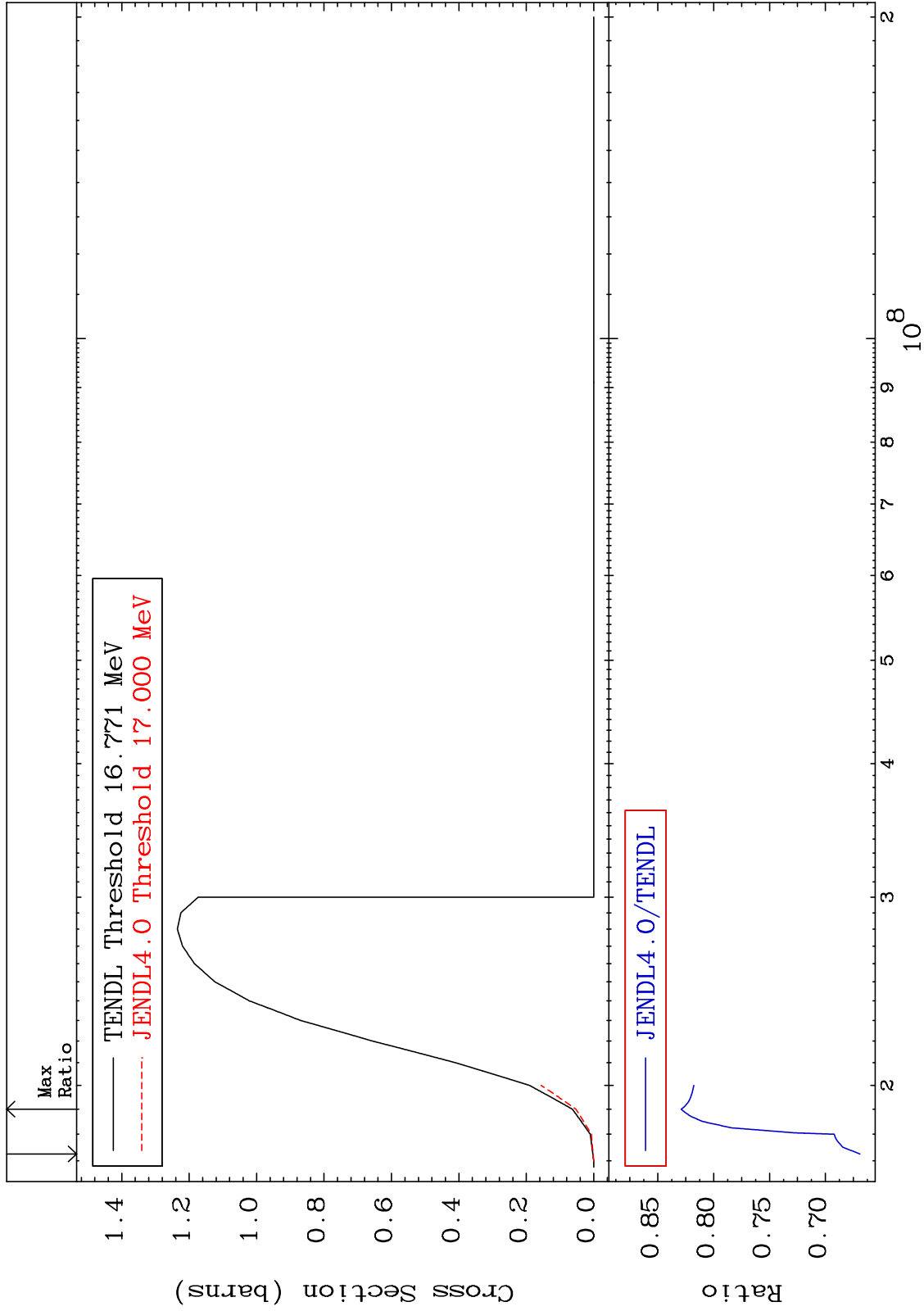
MAT 5837

(n,3n)

58-Ce-140

Cross Section

-33.08 To -17.10%



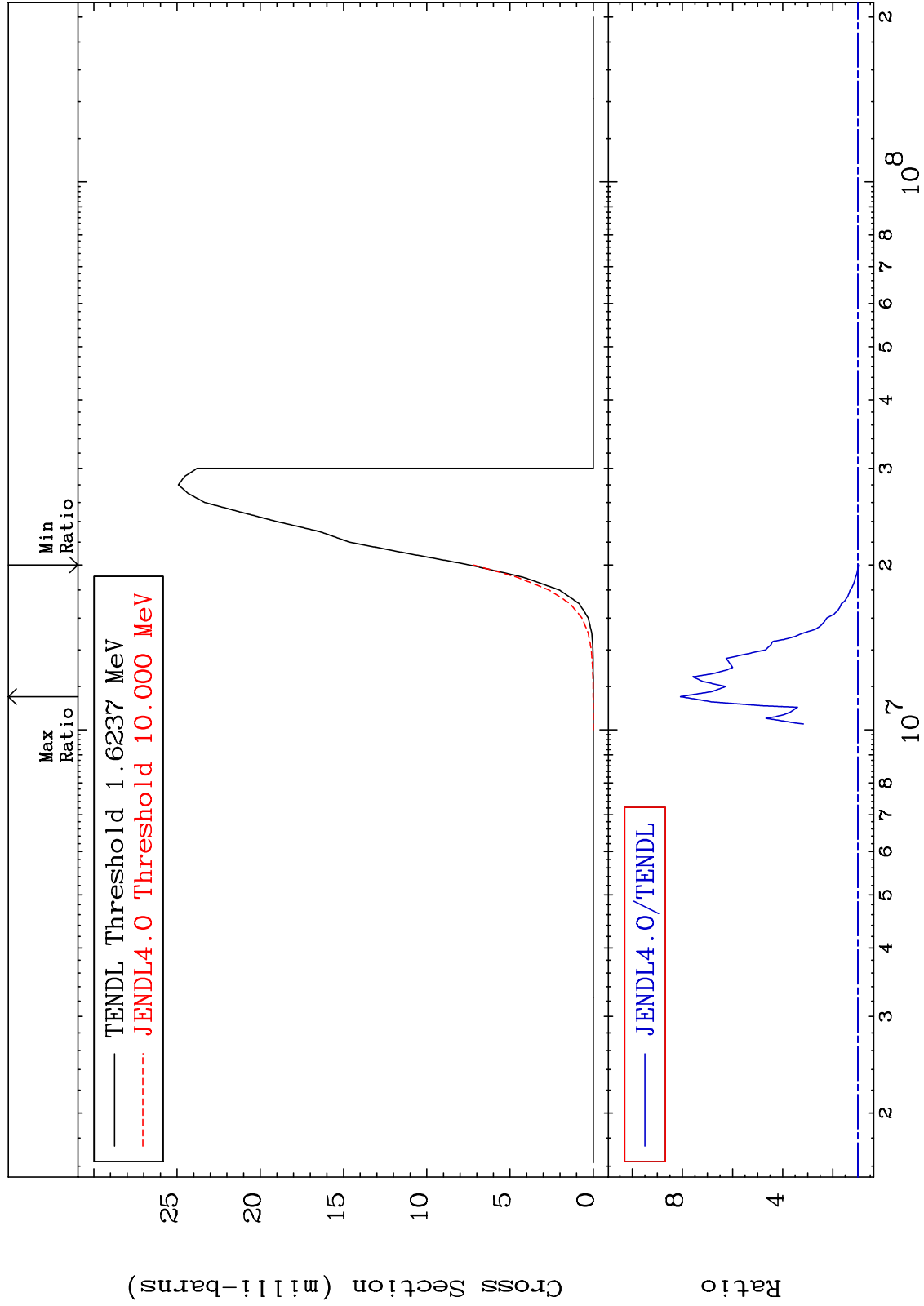
MAT 5837

(n,n') α

58-Ce-140

-3.052 To 707.9 %

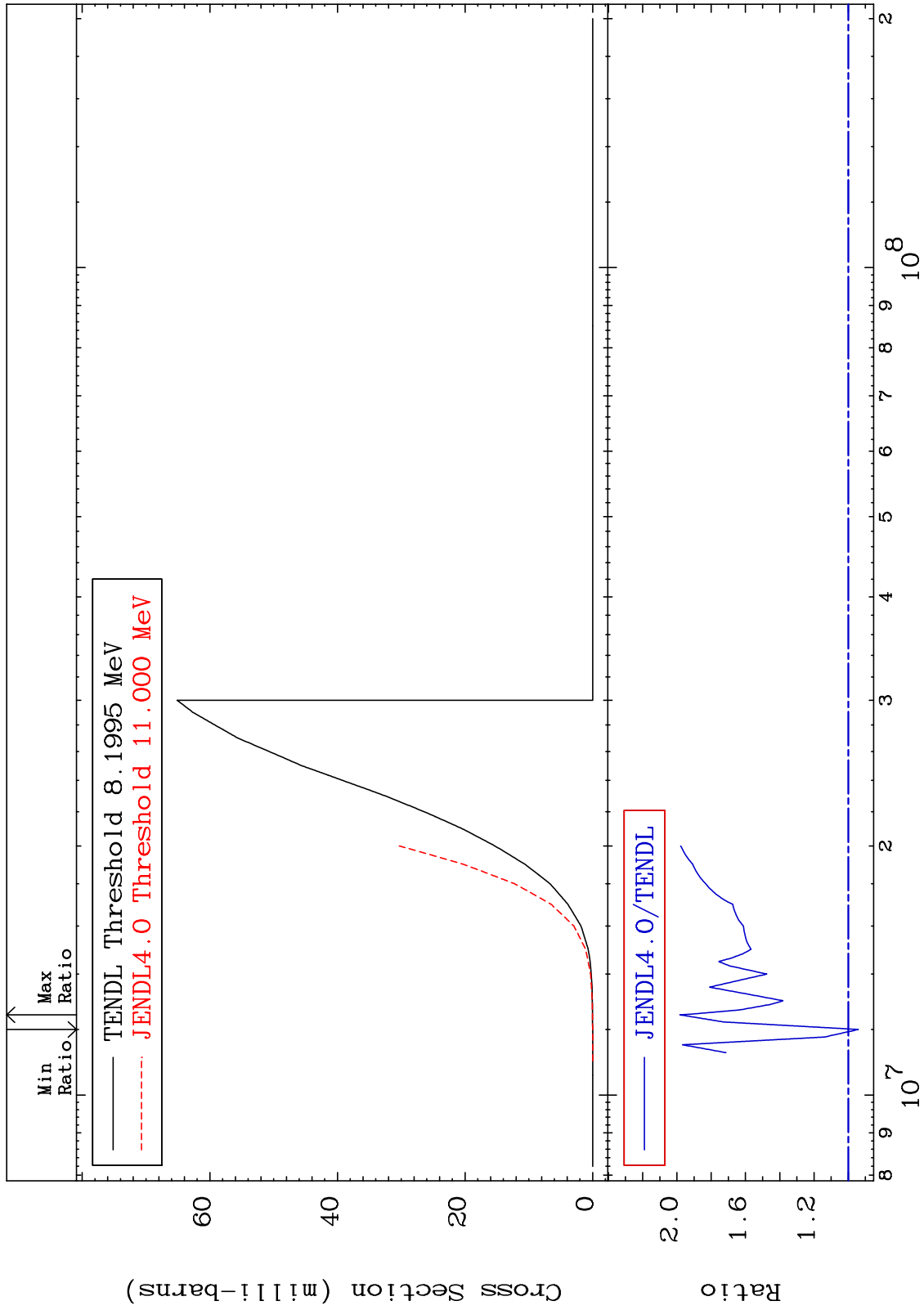
Cross Section



MAT 5837

(n,n') p
Cross Section

58-Ce-140
-5.892 To 98.20 %



58-Ce-140

Incident Energy (eV)

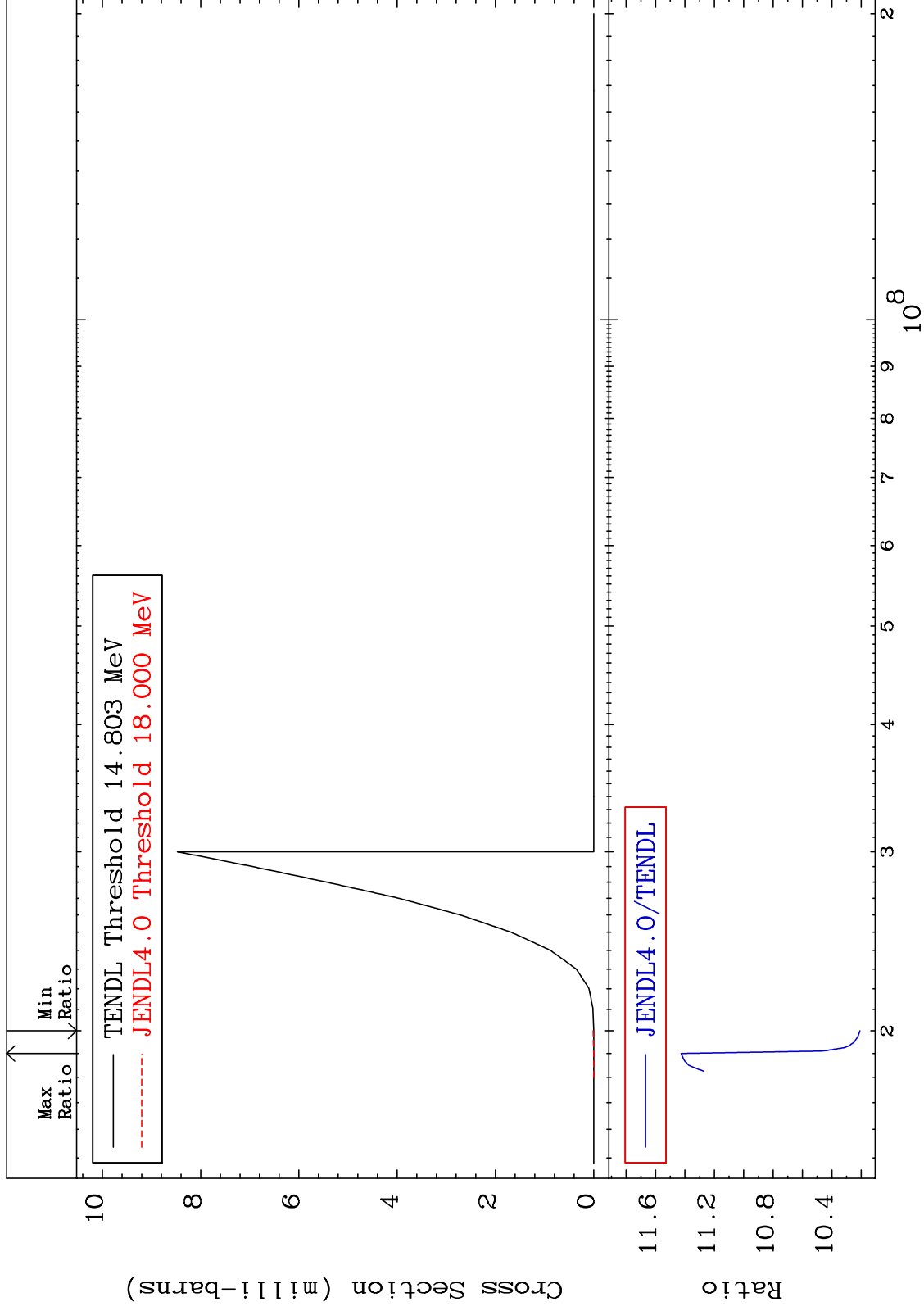
MAT 5837

(n,n') d

58-Ce-140

Cross Section

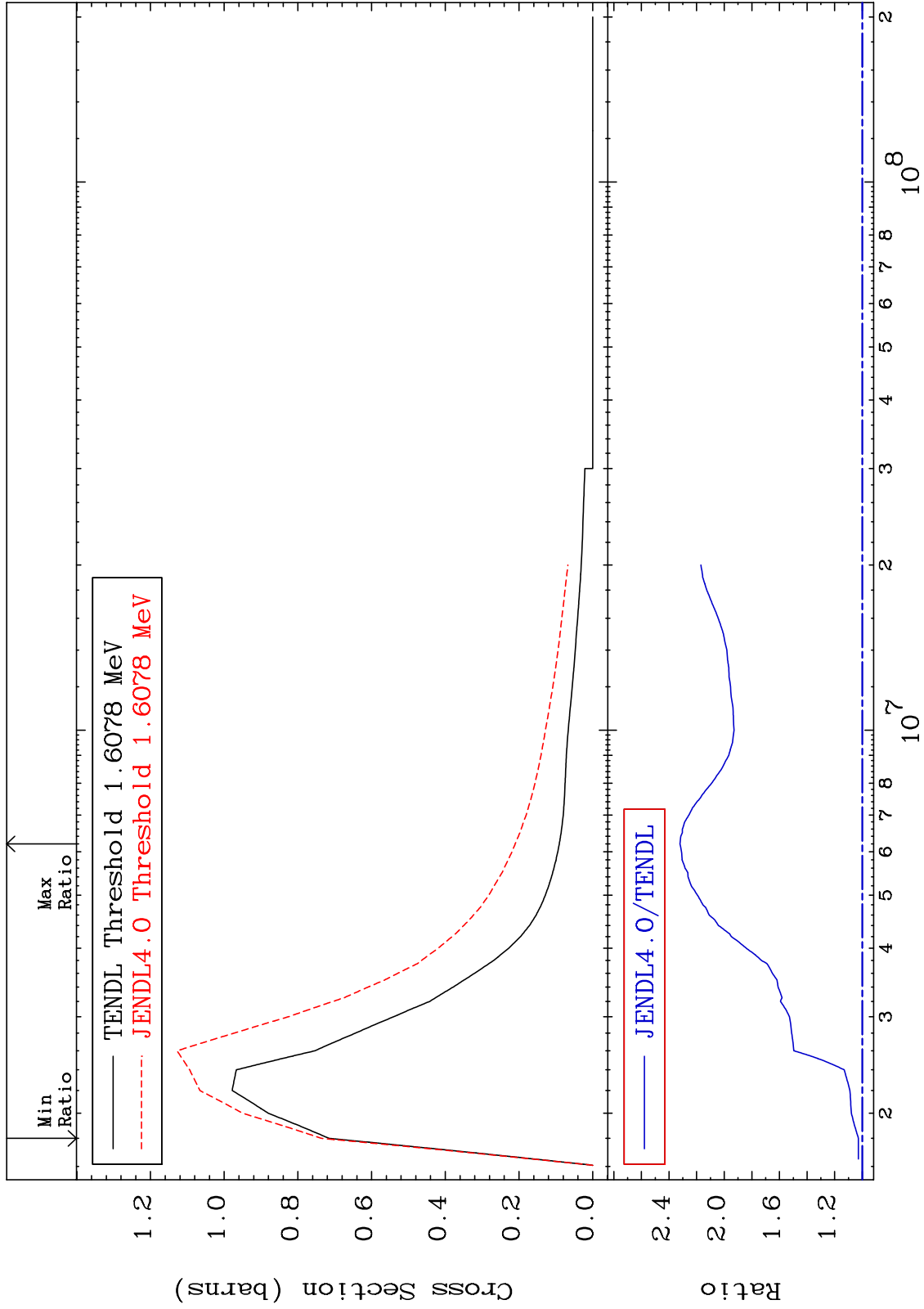
920.9 To 1043. %



MAT 5837

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

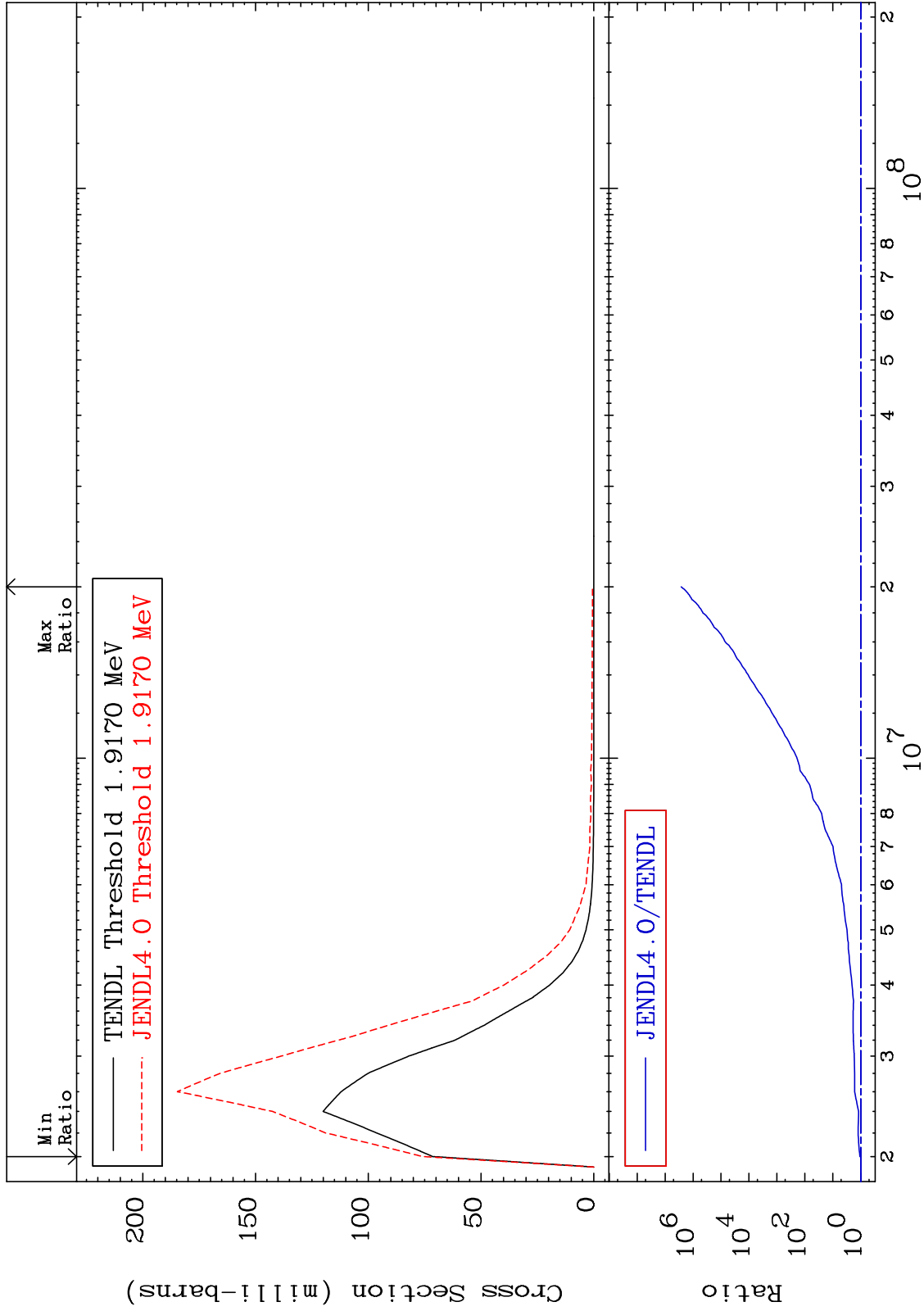
58-Ce-140
2.811 To 132.0 %



MAT 5837

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

58-Ce-140
To 9999. %
6.109

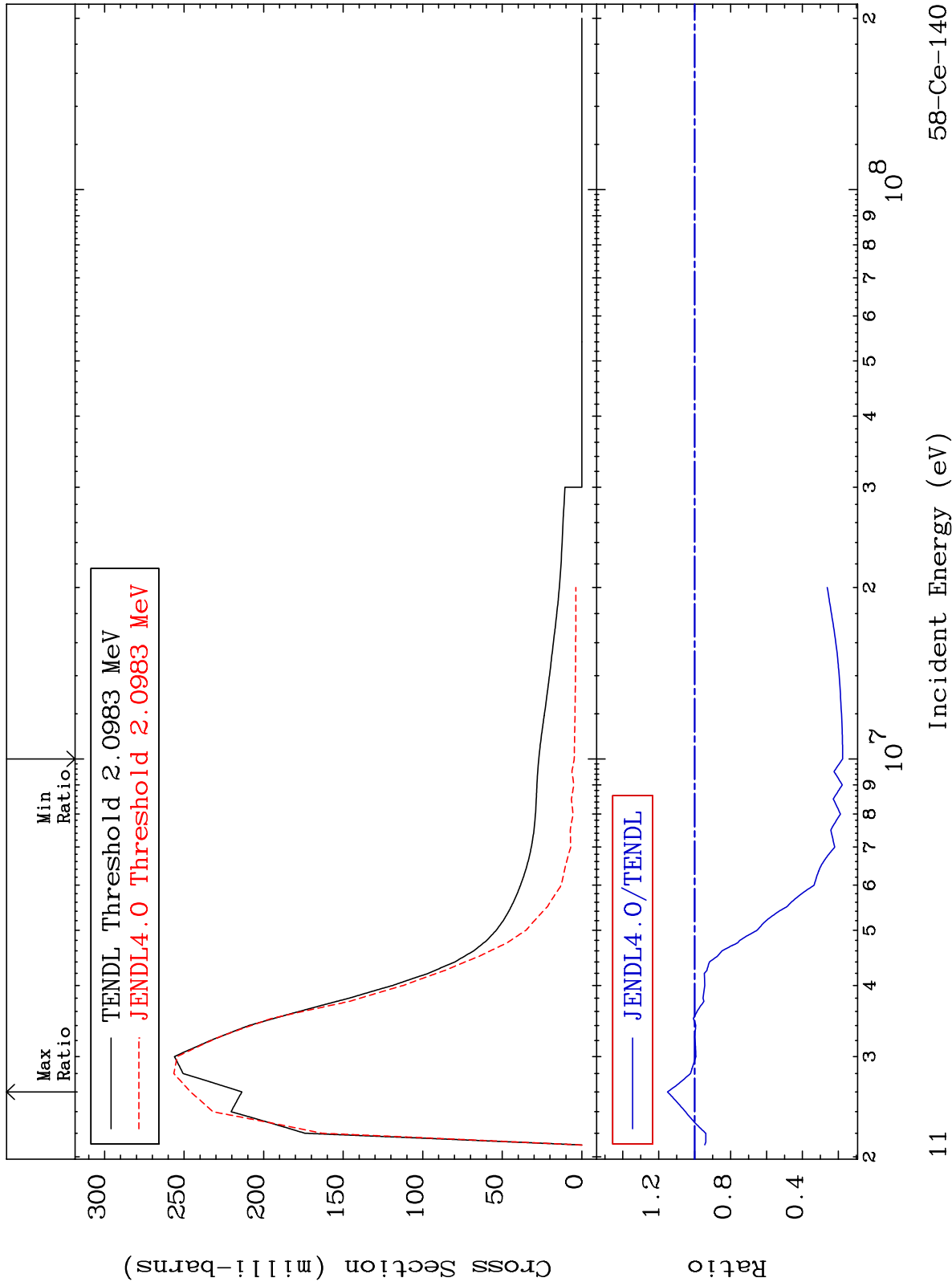


10

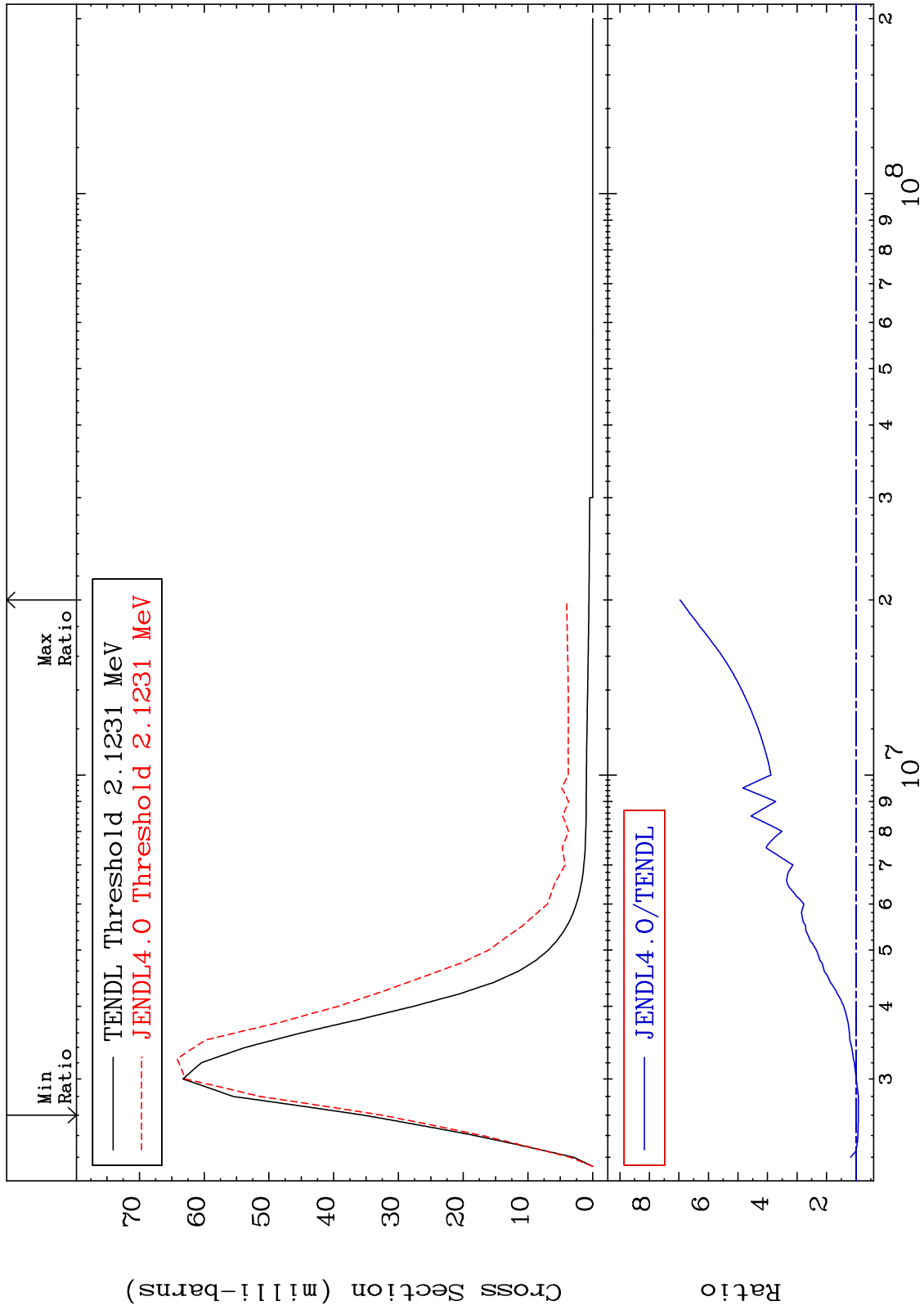
Incident Energy (eV)

58-Ce-140

MAT 5837 MT= 53 (n,n') Level Cross Section 58-Ce-140 -82.38 To 15.11 %



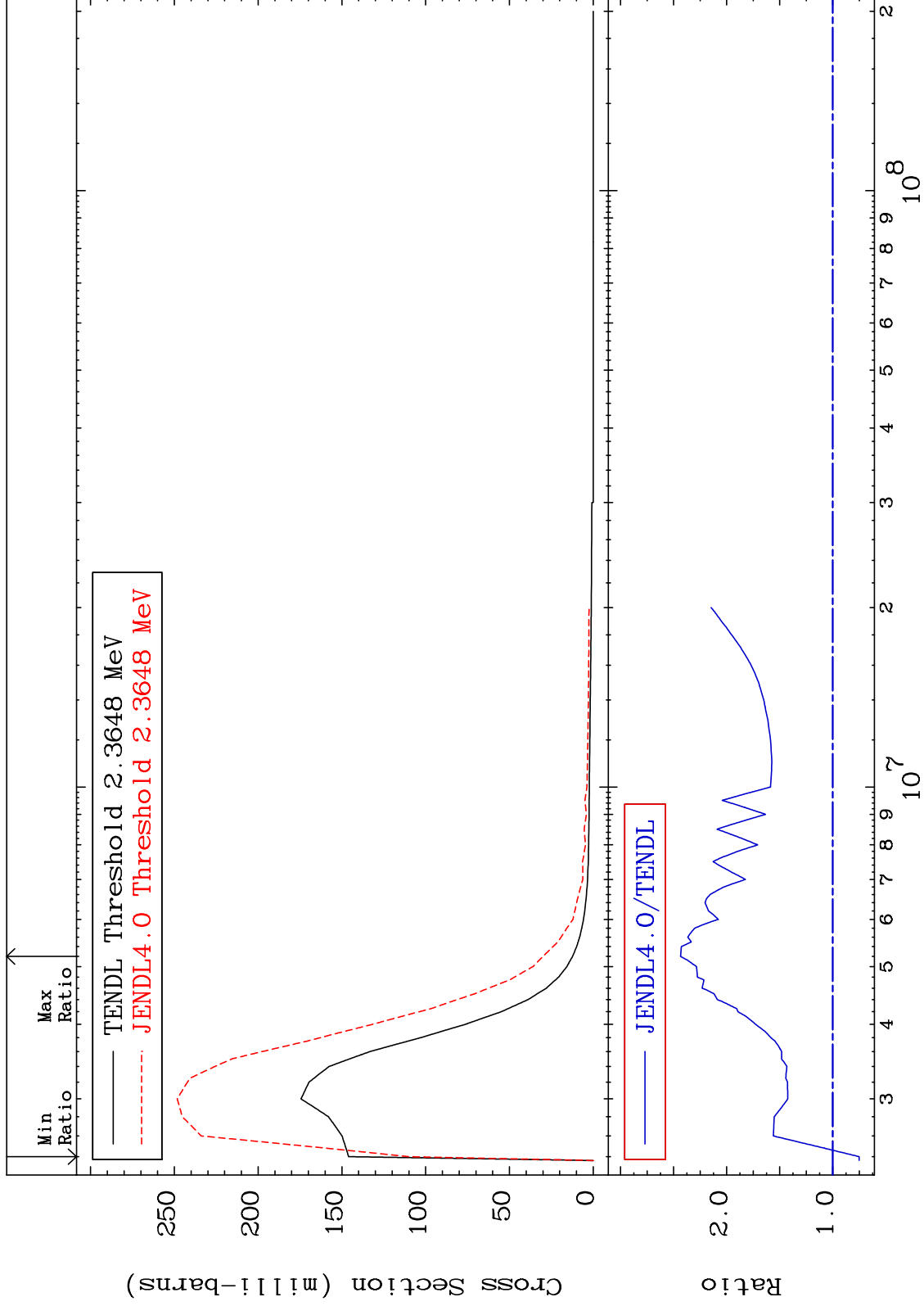
MAT 5837 MT= 54 (n,n') Level Cross Section 58-Ce-140 -7.925 To 596.3 %



MAT 5837

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

58-Ce-140
-24.86 To 143.4 %



13

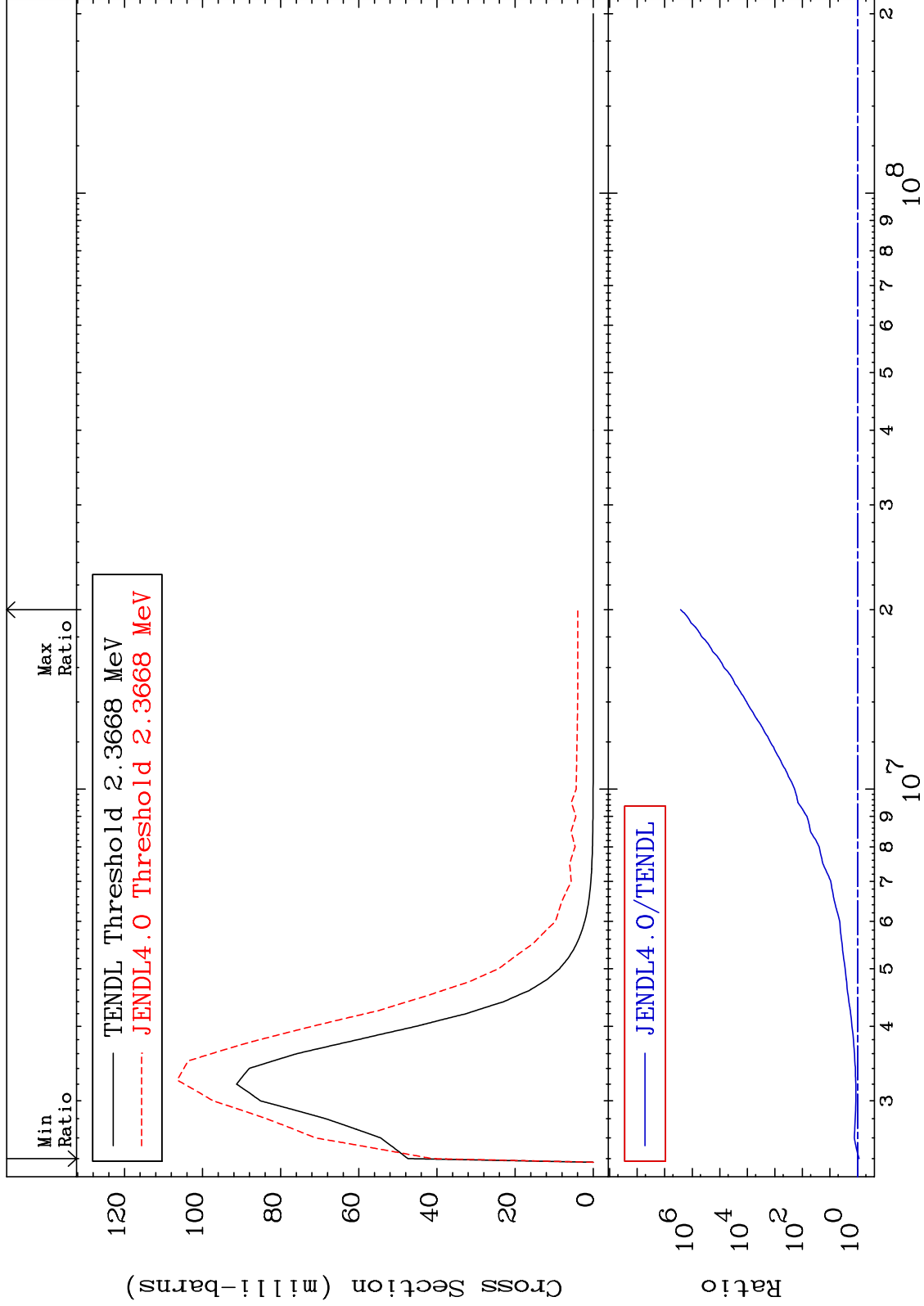
Incident Energy (eV)

58-Ce-140

MAT 5837

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

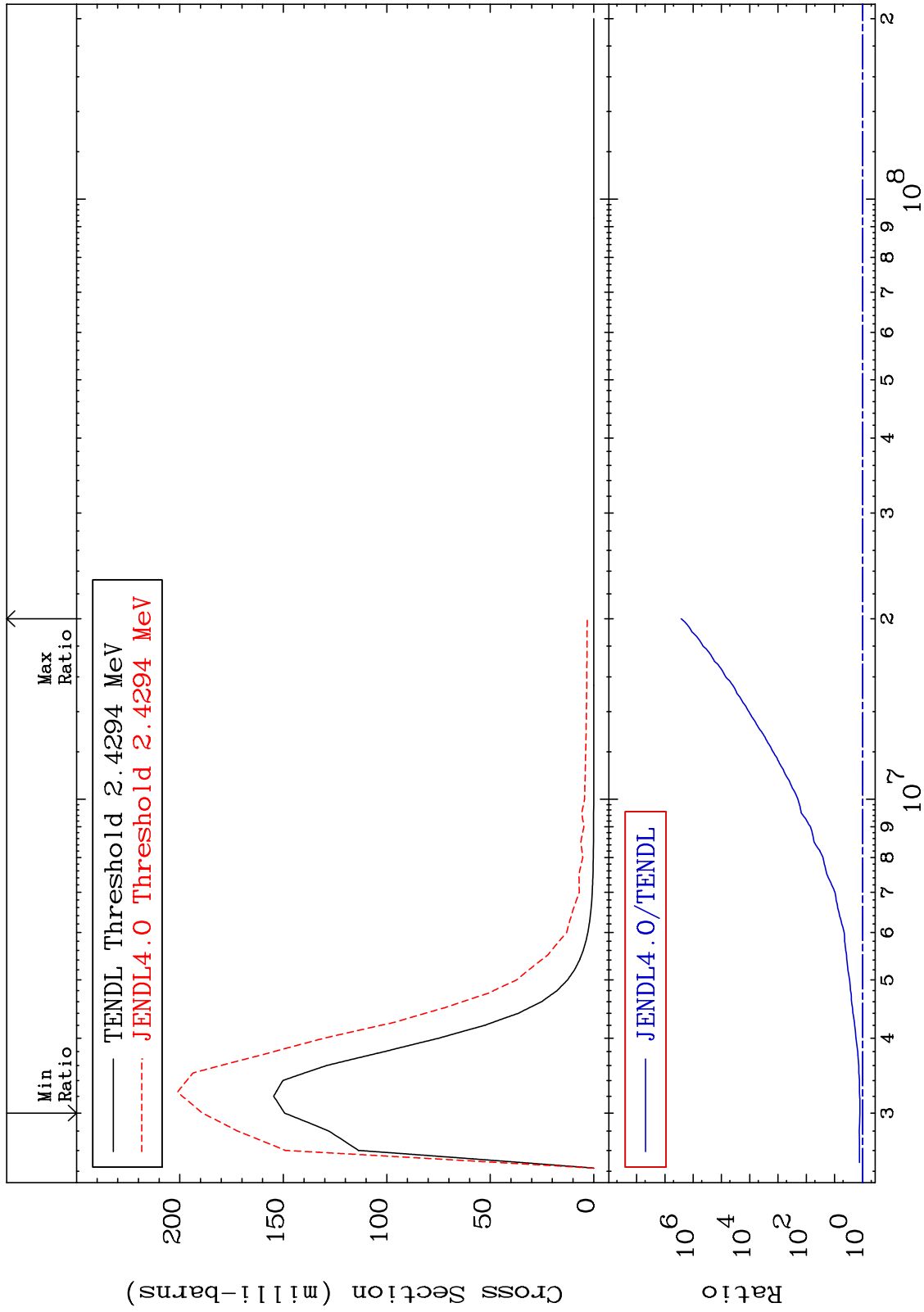
58-Ce-140
-12.95 To 9999. %



MAT 5837

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

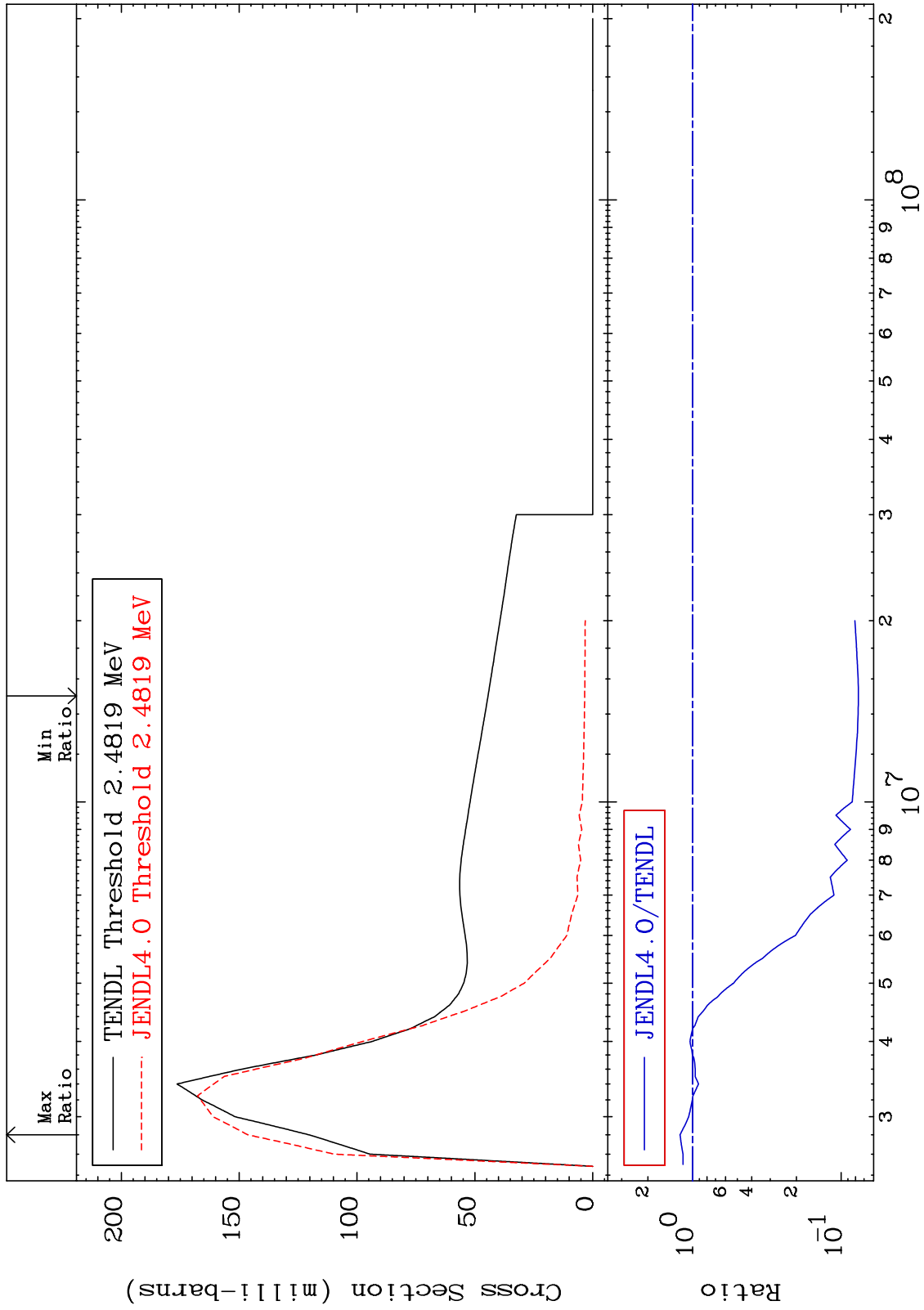
58-Ce-140
26.58 To 9999. %



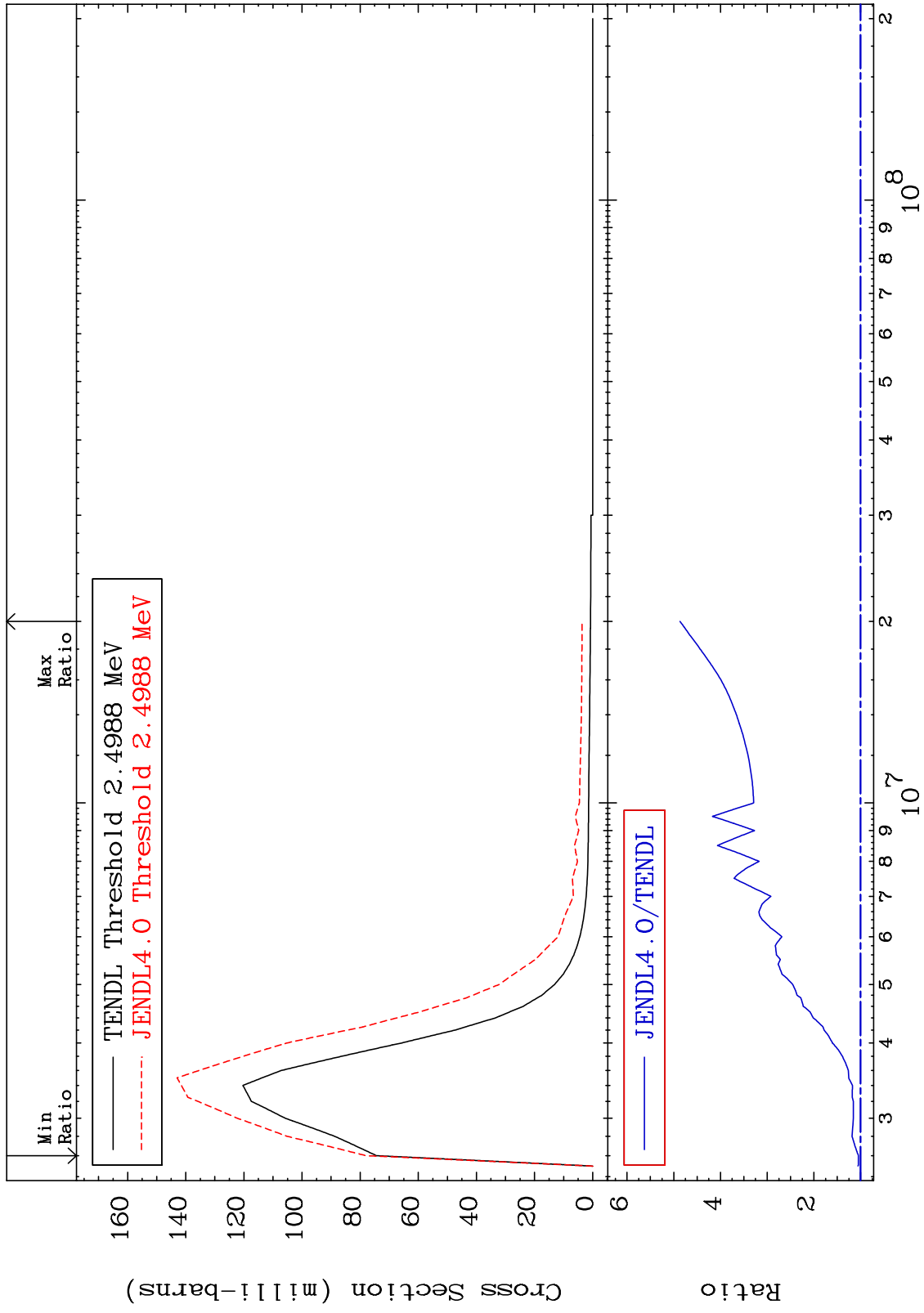
MAT 5837

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

58-Ce-140
-92.36 To 21.52 %



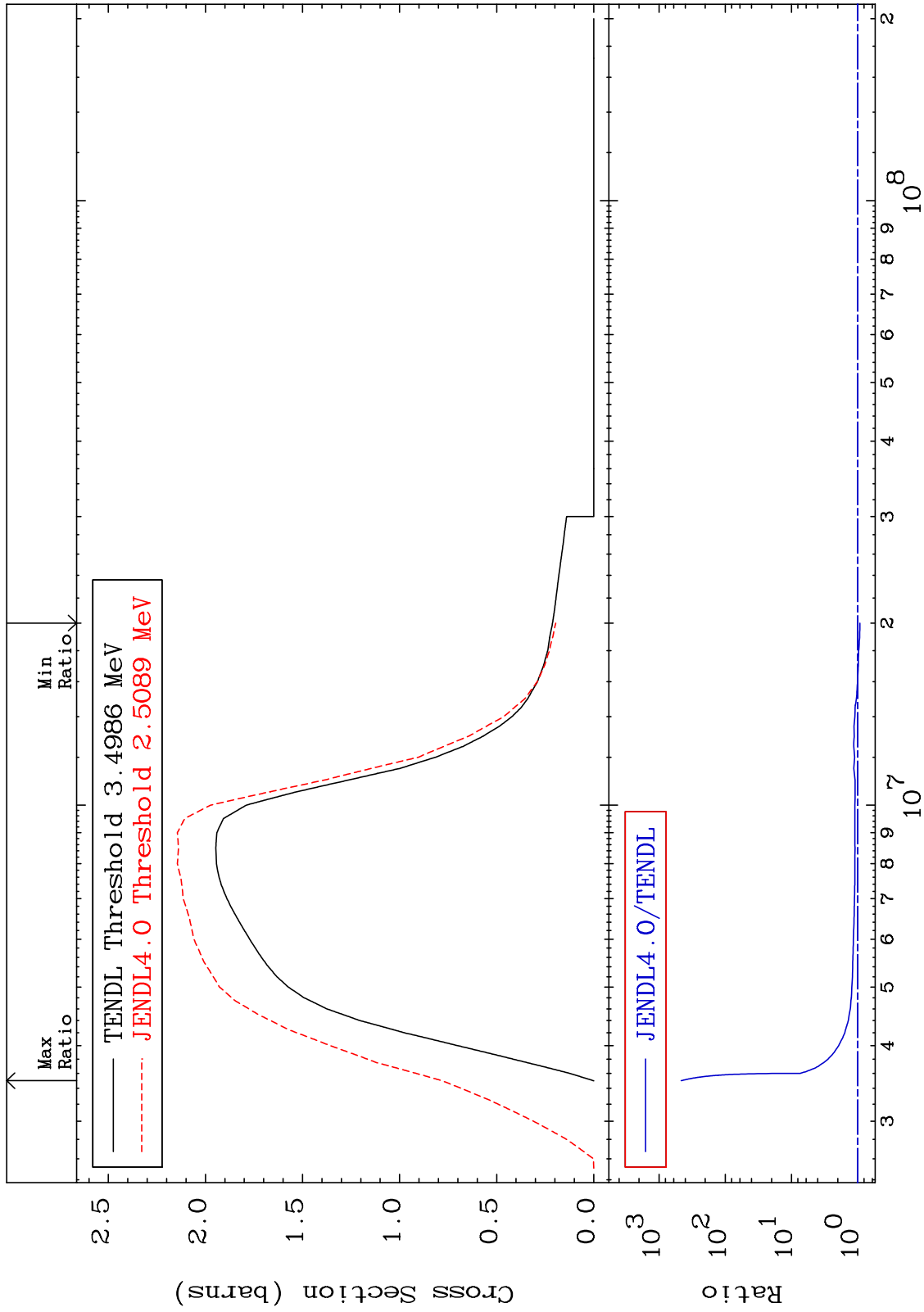
MAT 5837 MT= 59 (n,n') Level Cross Section 58-Ce-140 To 386.6 %
 4.763



MAT 5837

(n, n') Continuum
Cross Section

58-Ce-140
-7.556 To 9999. %



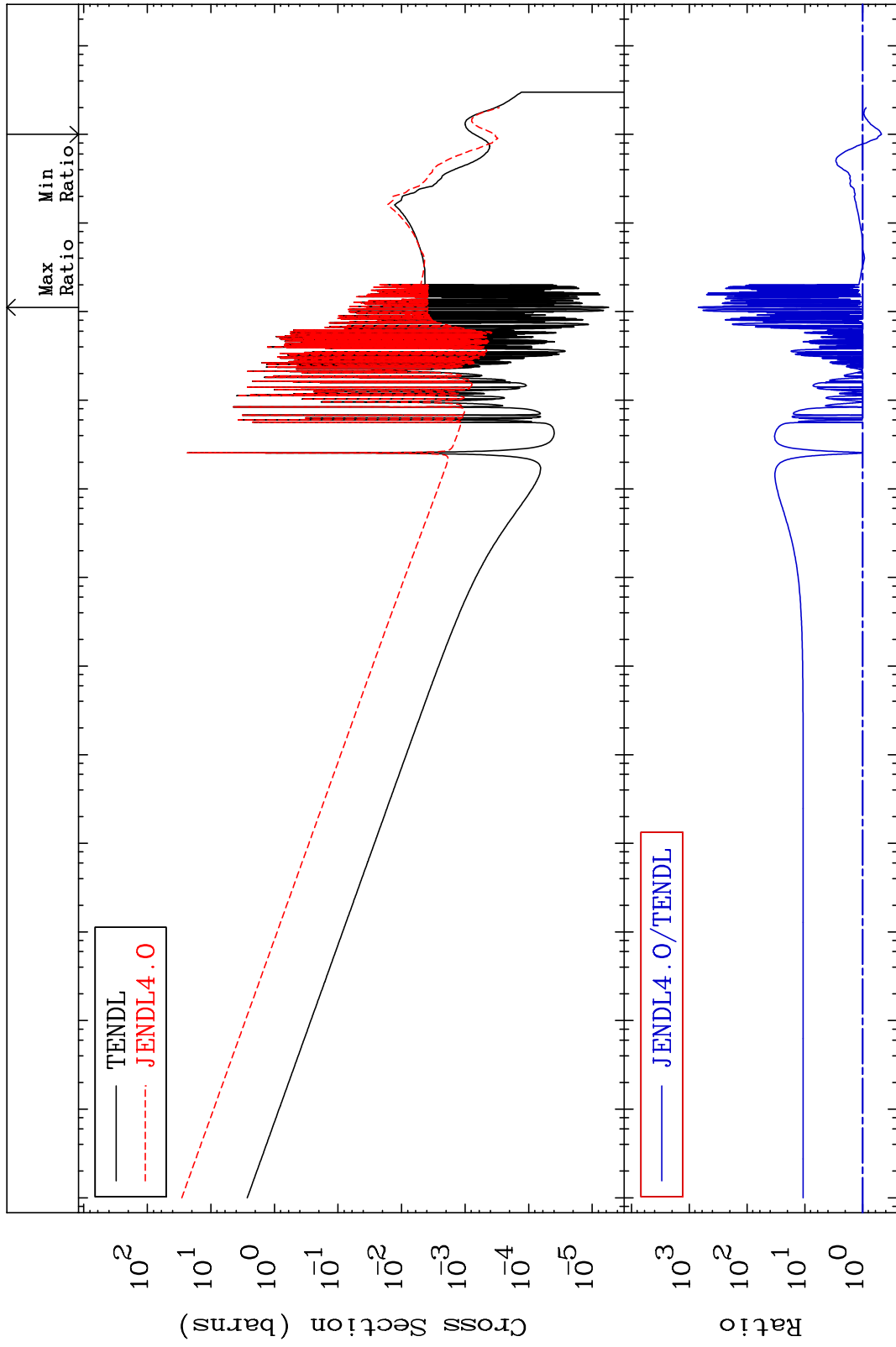
MAT 5837

(n, γ)

58-Ce-140

Cross Section

-52.86 To 9999. %



Incident Energy (eV)

58-Ce-140

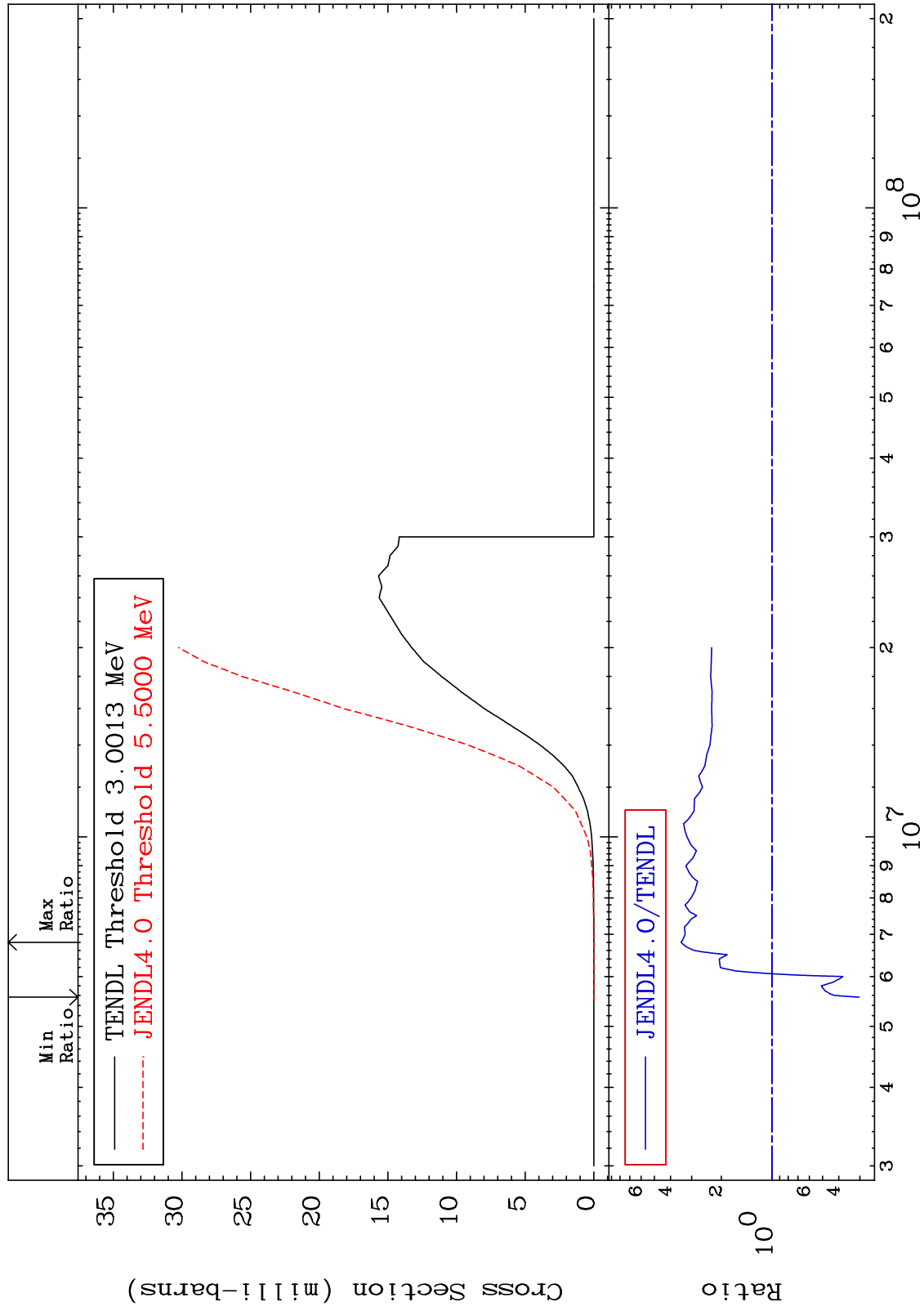
MAT 5837

(n,p)

58-Ce-140

Cross Section

-69.76 To 246.8 %



20

Incident Energy (eV)

58-Ce-140

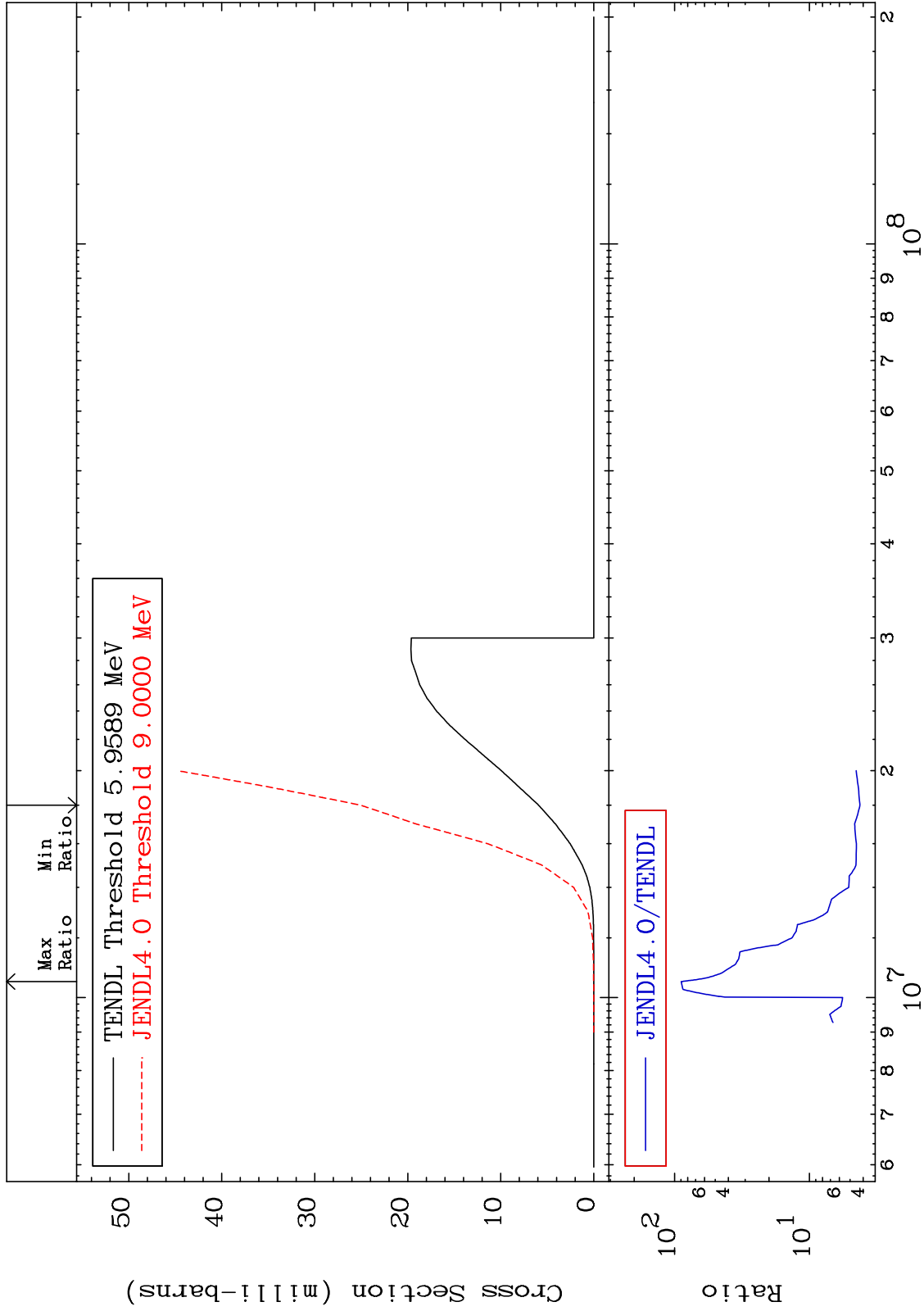
MAT 5837

(n, d)

58-Ce-140

Cross Section

322.6 To 8843. %



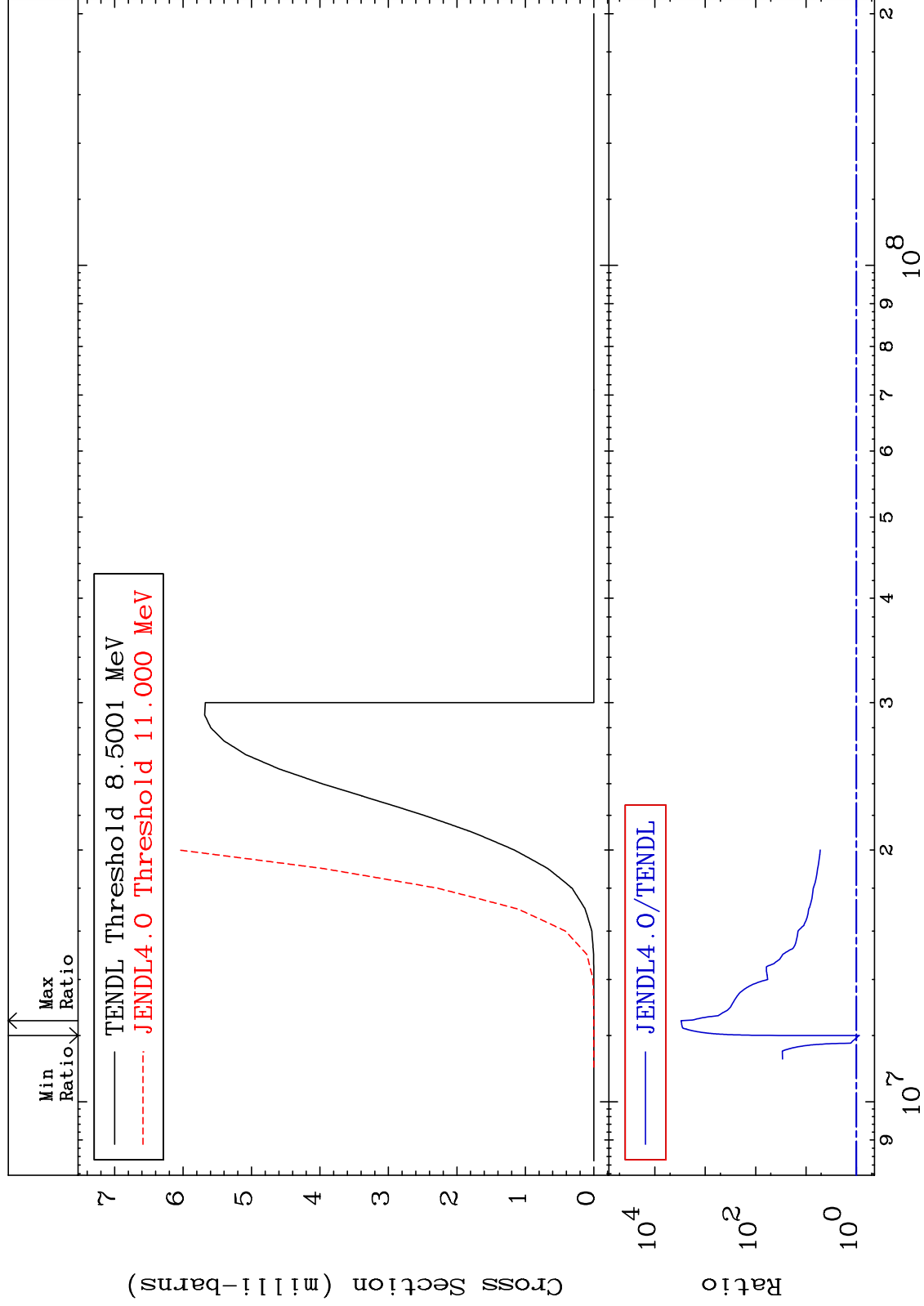
MAT 5837

(n, t)

58-Ce-140

Cross Section

-12.20 To 9999. %



22

Incident Energy (eV)

58-Ce-140

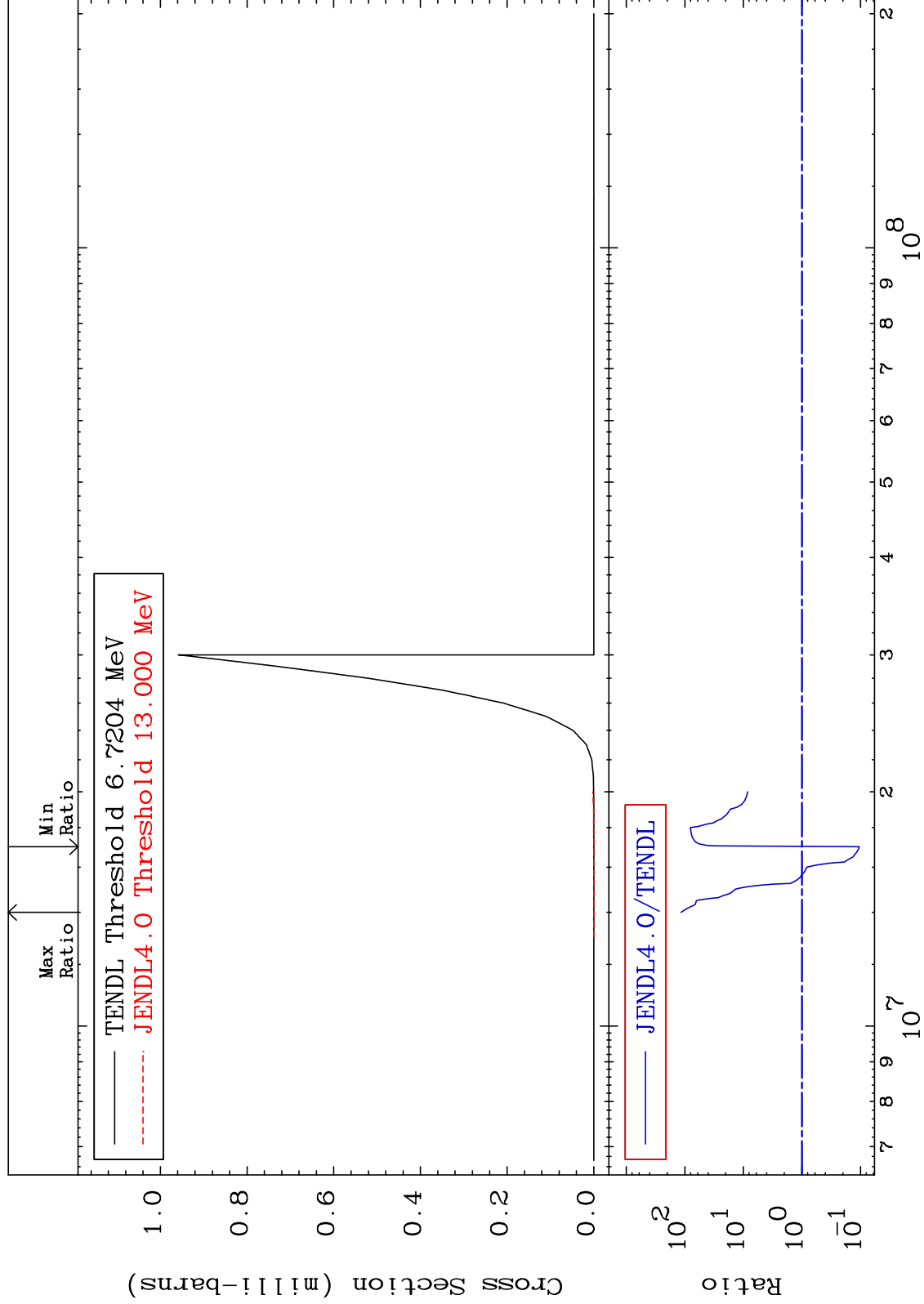
MAT 5837

(n, He-3)

58-Ce-140

Cross Section

-89.50 To 9999. %



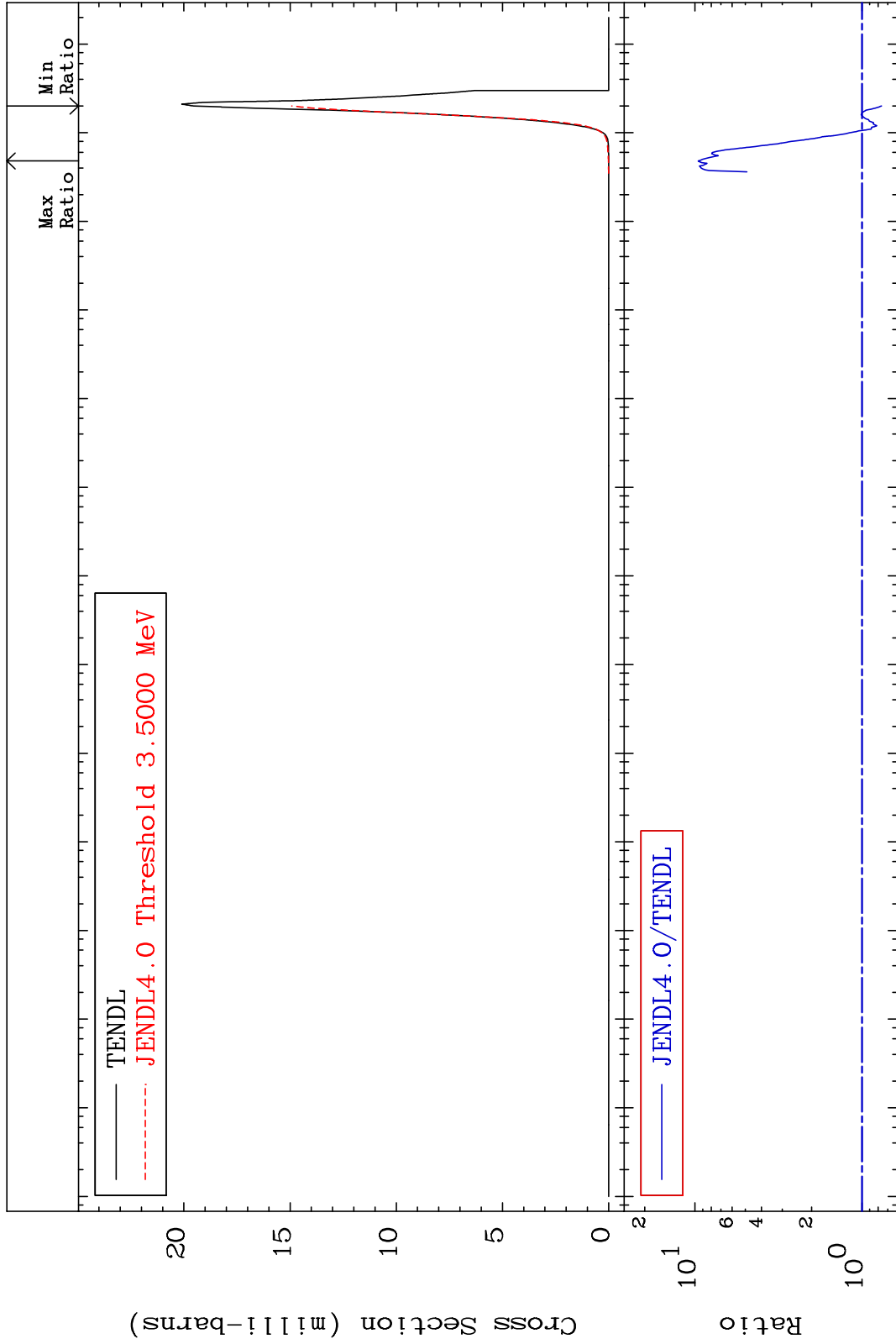
MAT 5837

(n, α)

58-Ce-140

Cross Section

-23.67 To 855.0 %



Incident Energy (eV)

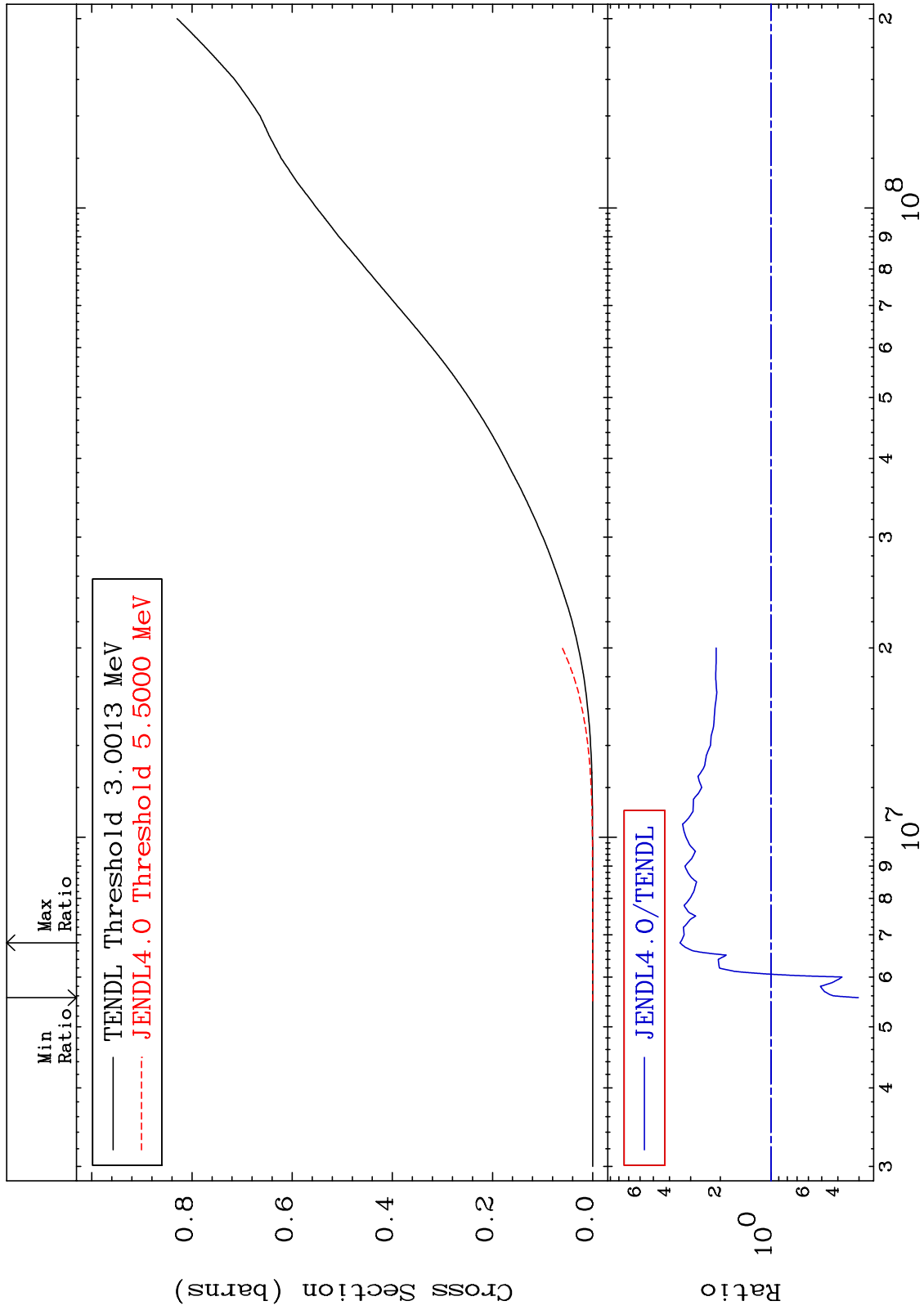
58-Ce-140

24

MAT 5837

Hydrogen Production
Cross Section

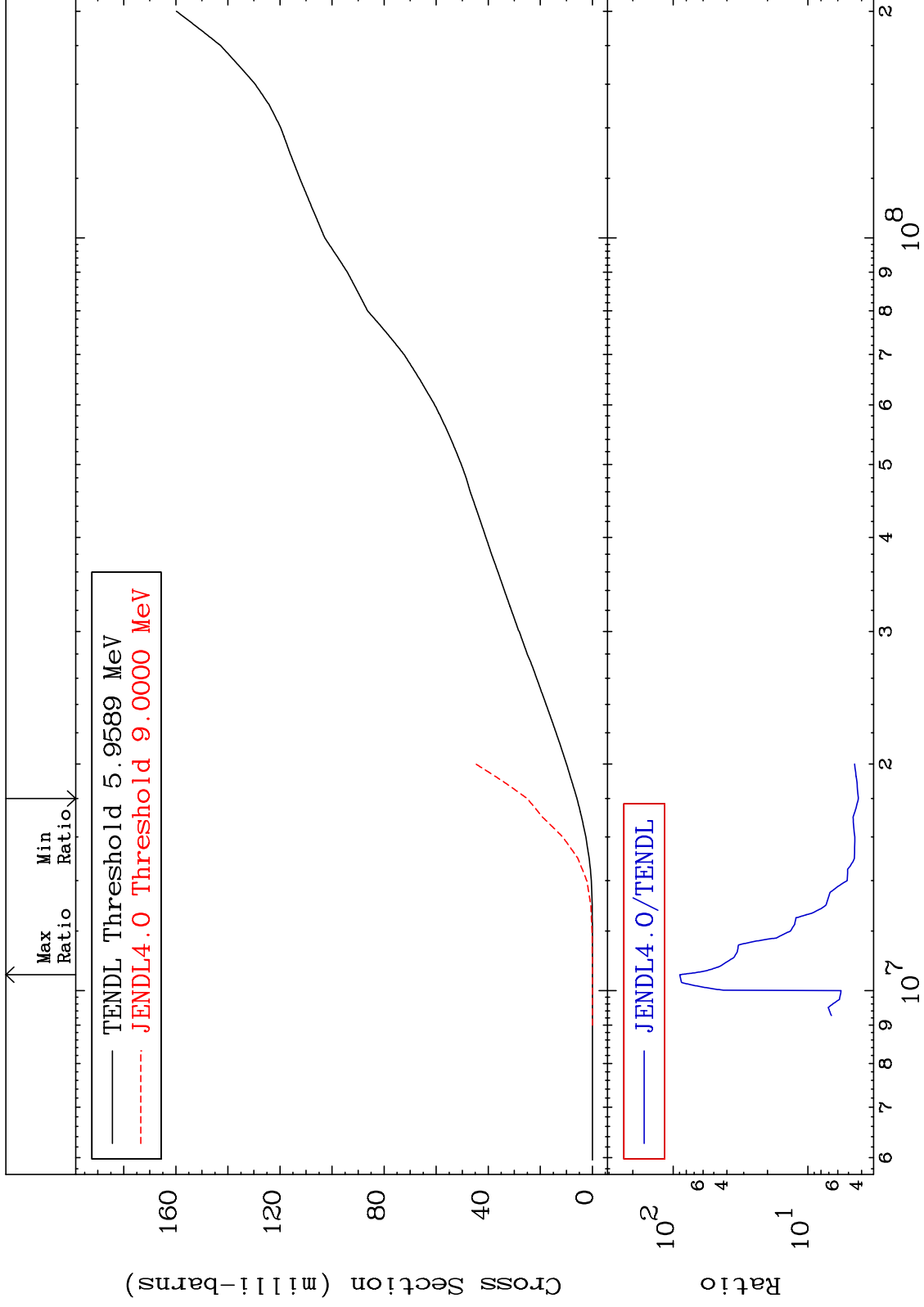
58-Ce-140
-69.76 To 246.8 %



MAT 5837

Deuterium Production
Cross Section

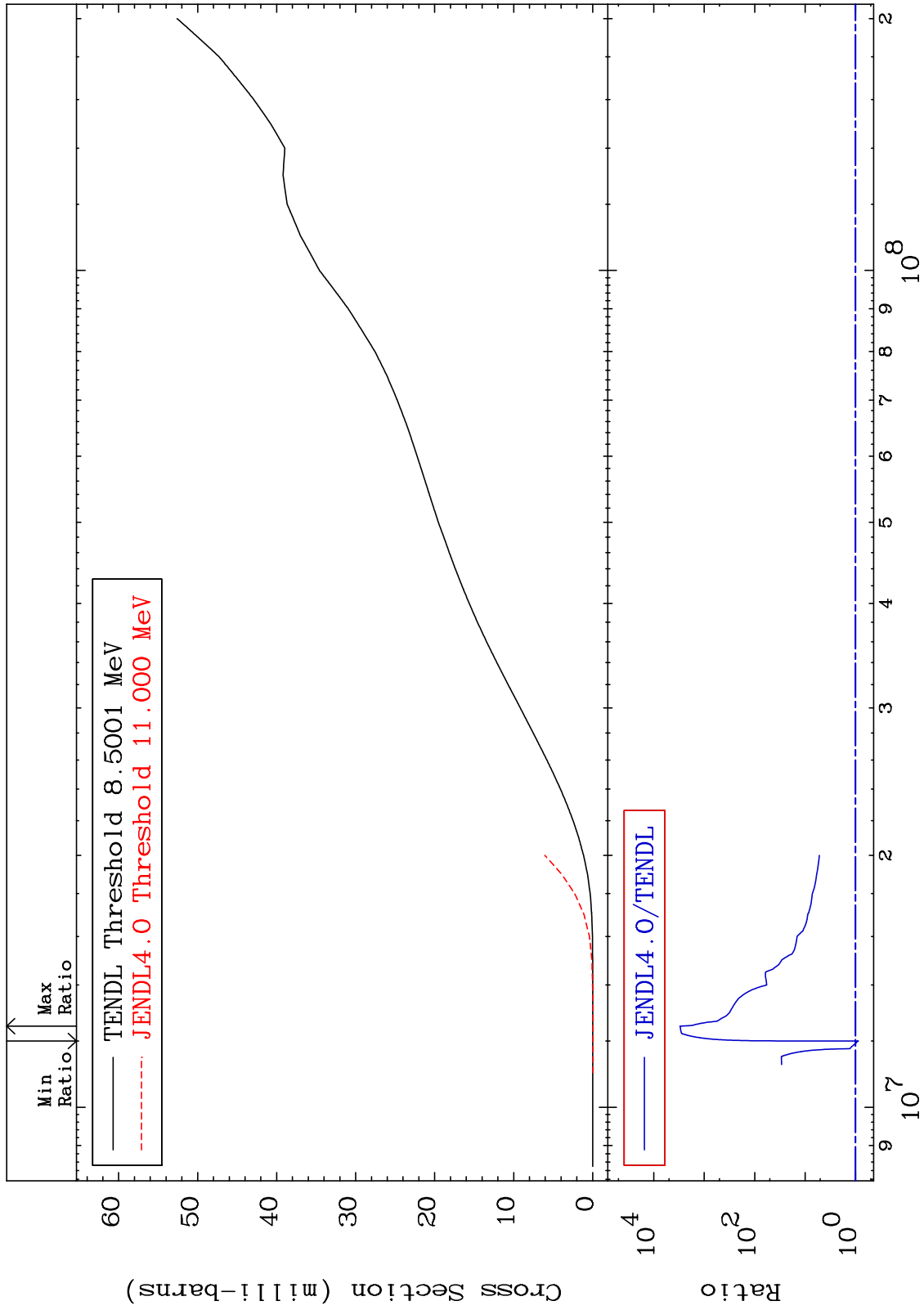
58-Ce-140
322.6 To 8843. %



MAT 5837

Tritium Production
Cross Section

58-Ce-140
-12.20 To 9999. %



27

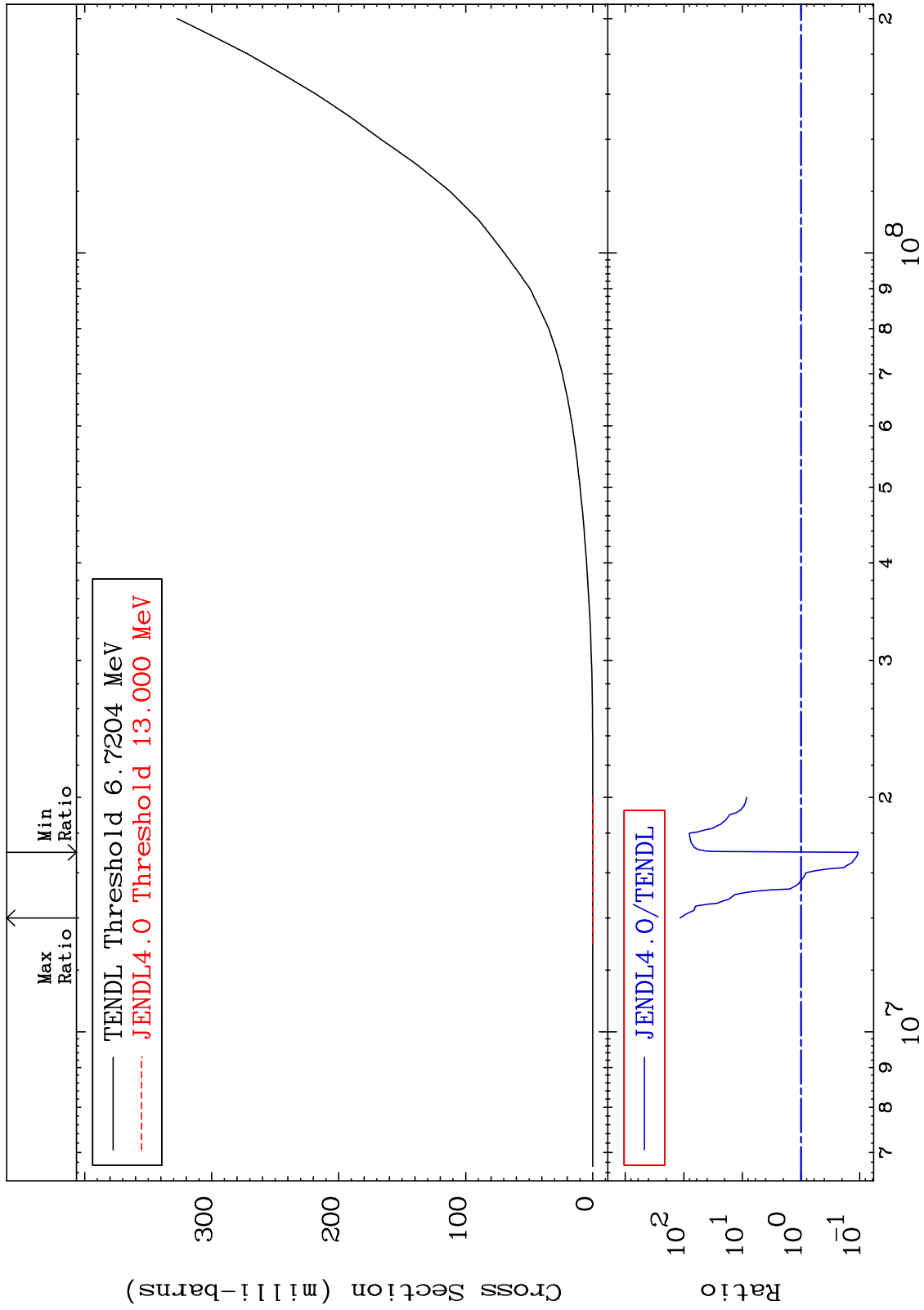
Incident Energy (eV)

58-Ce-140

MAT 5837

He-3 Production
Cross Section

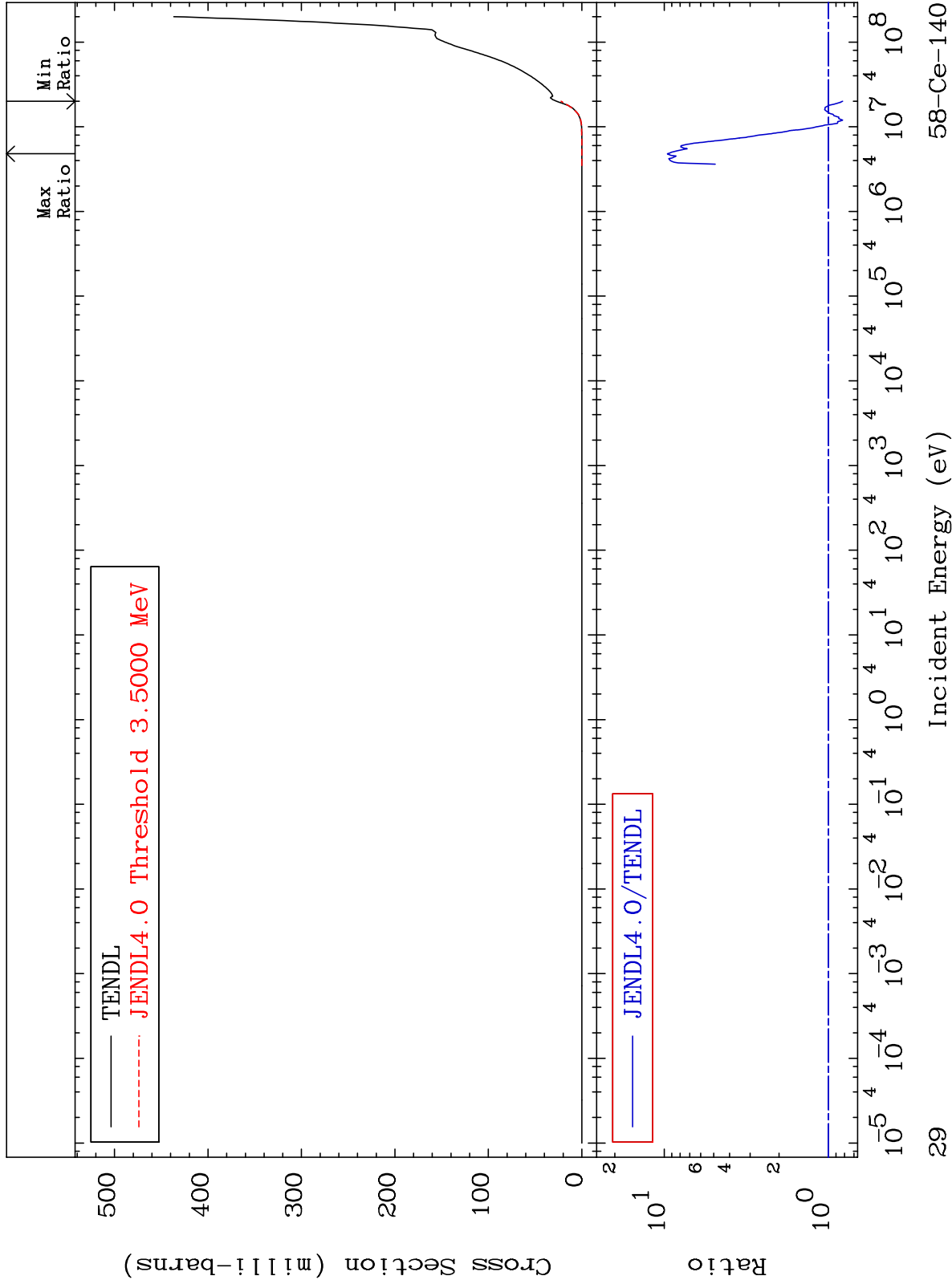
58-Ce-140
-89.50 To 9999. %



MAT 5837

He-4 Production
Cross Section

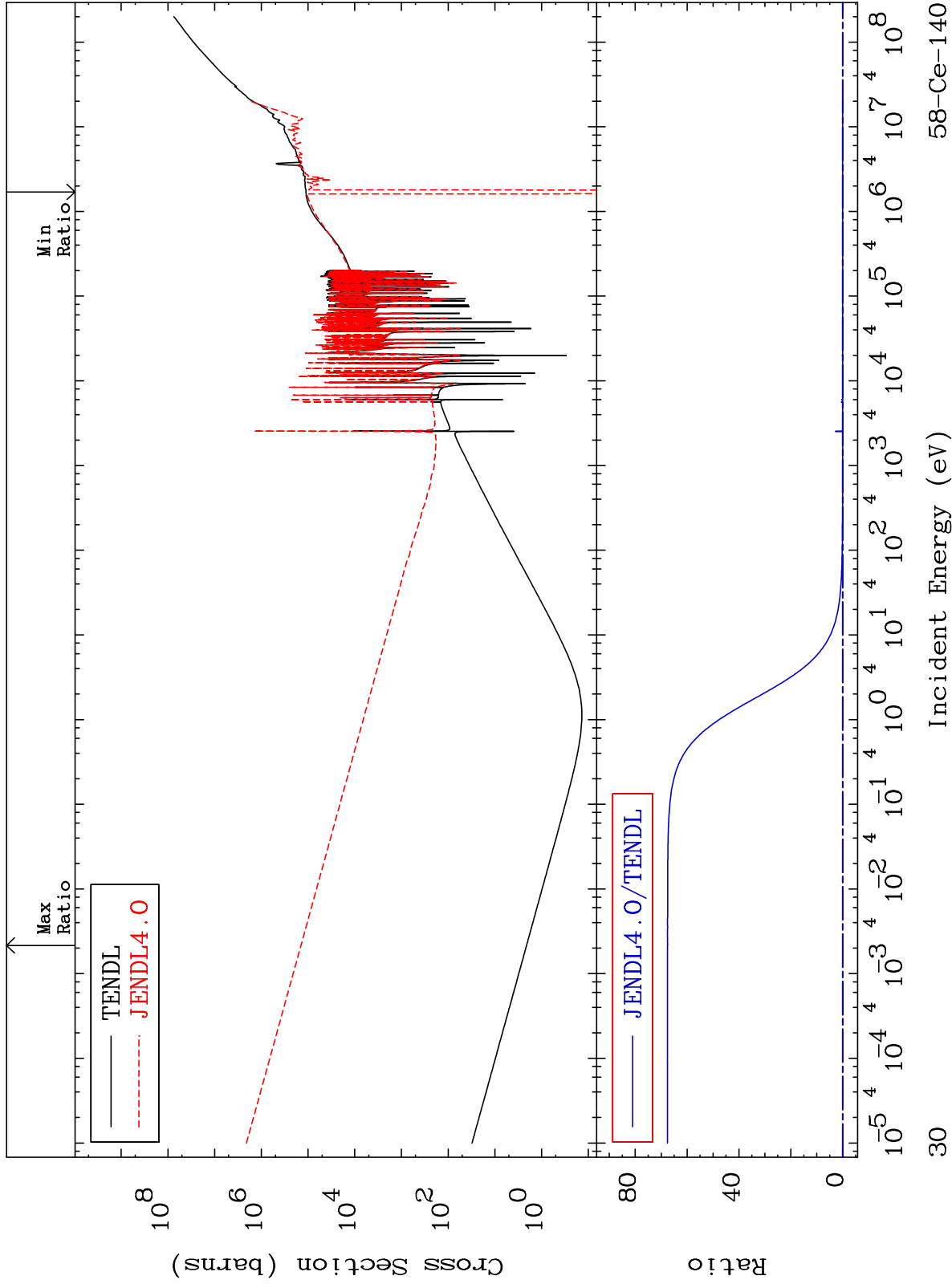
58-Ce-140
-17.98 To 855.0 %



MAT 5837

Kerma total (eV-barns)
Cross Section

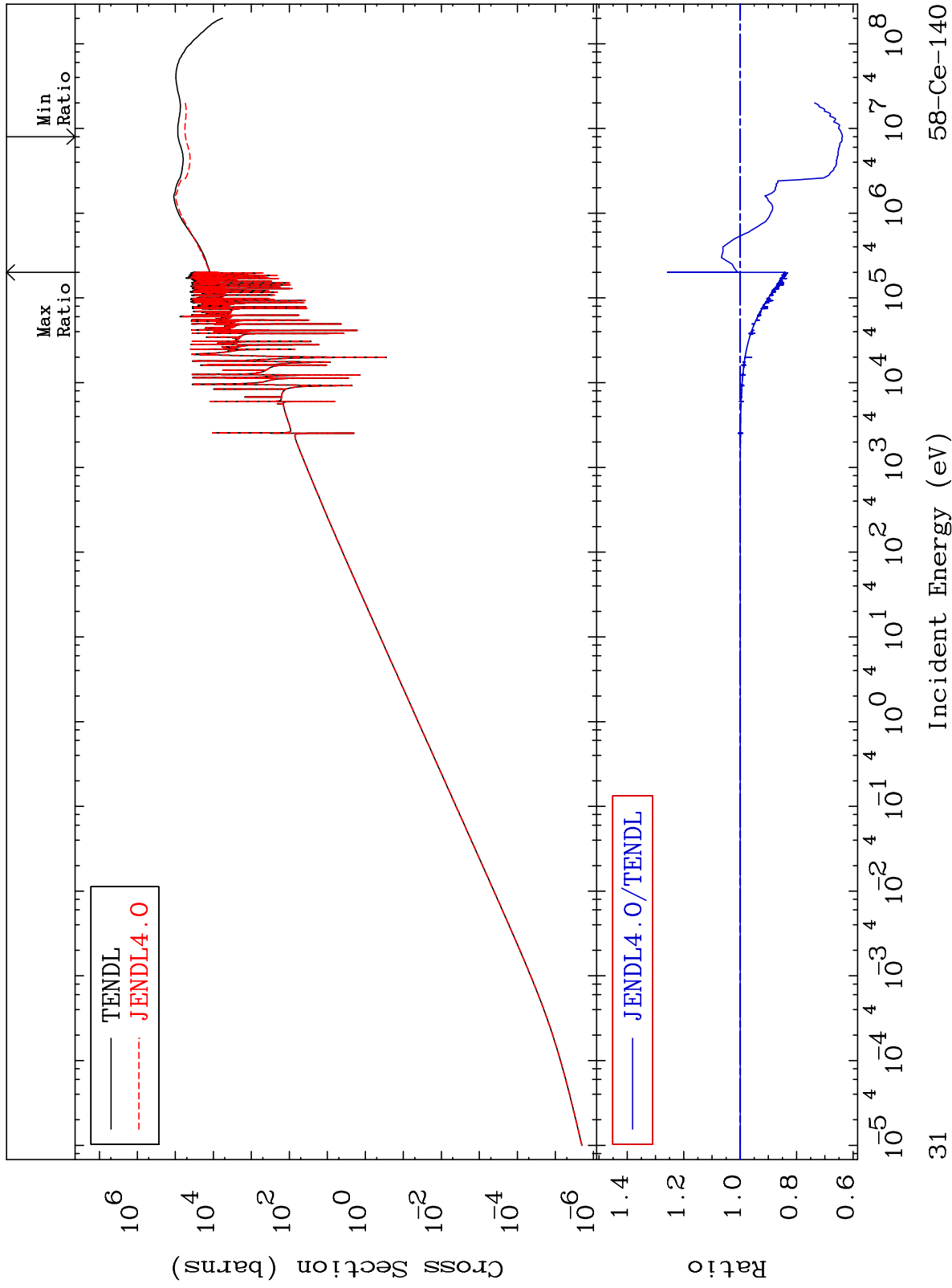
58-Ce-140
-697.5 To 9999. %



MAT 5837

Kerma elastic
Cross Section

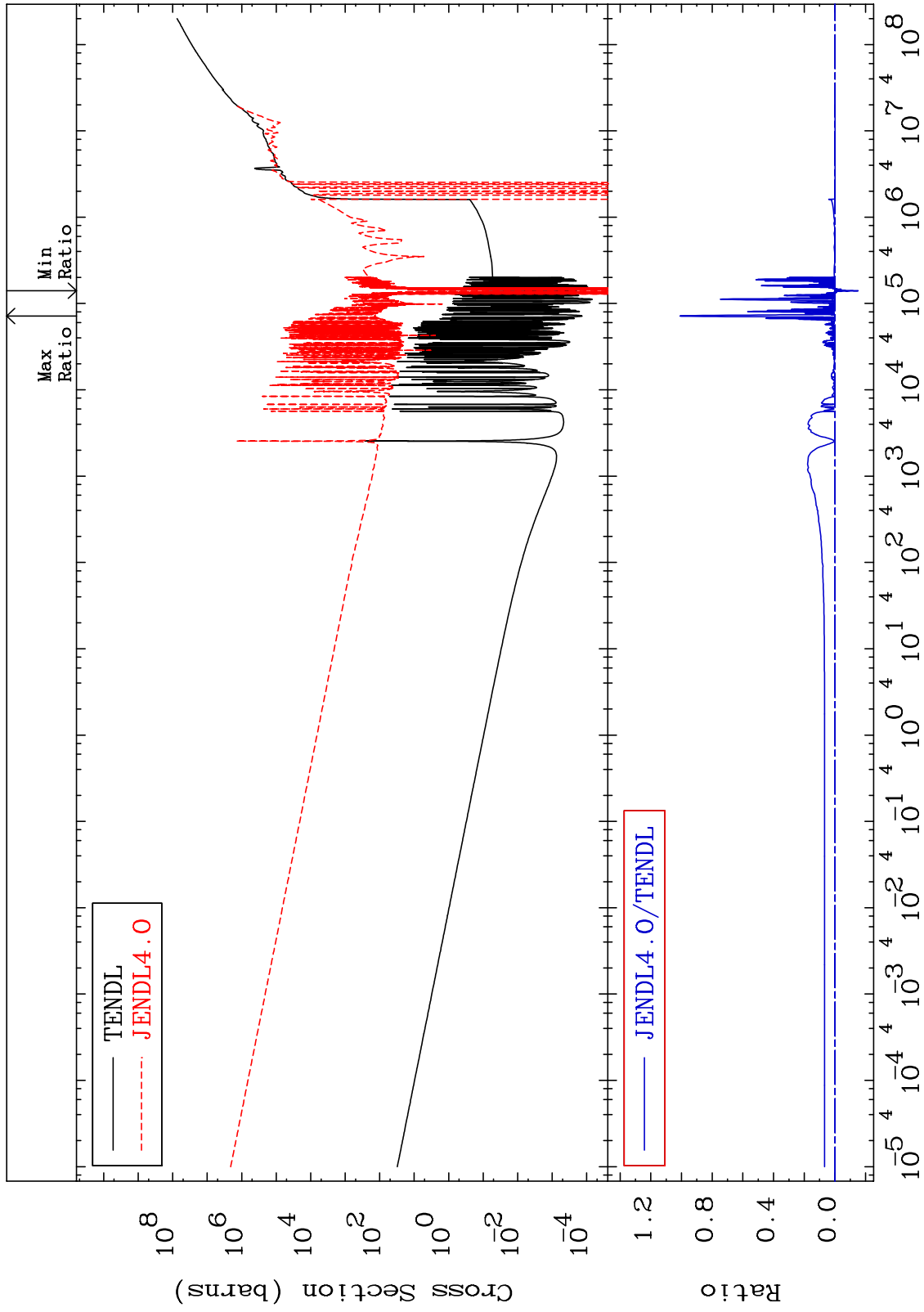
58-Ce-140
-36.29 To 25.71 %



MAT 5837

Kerma non-elastic (all but mt2)
Cross Section

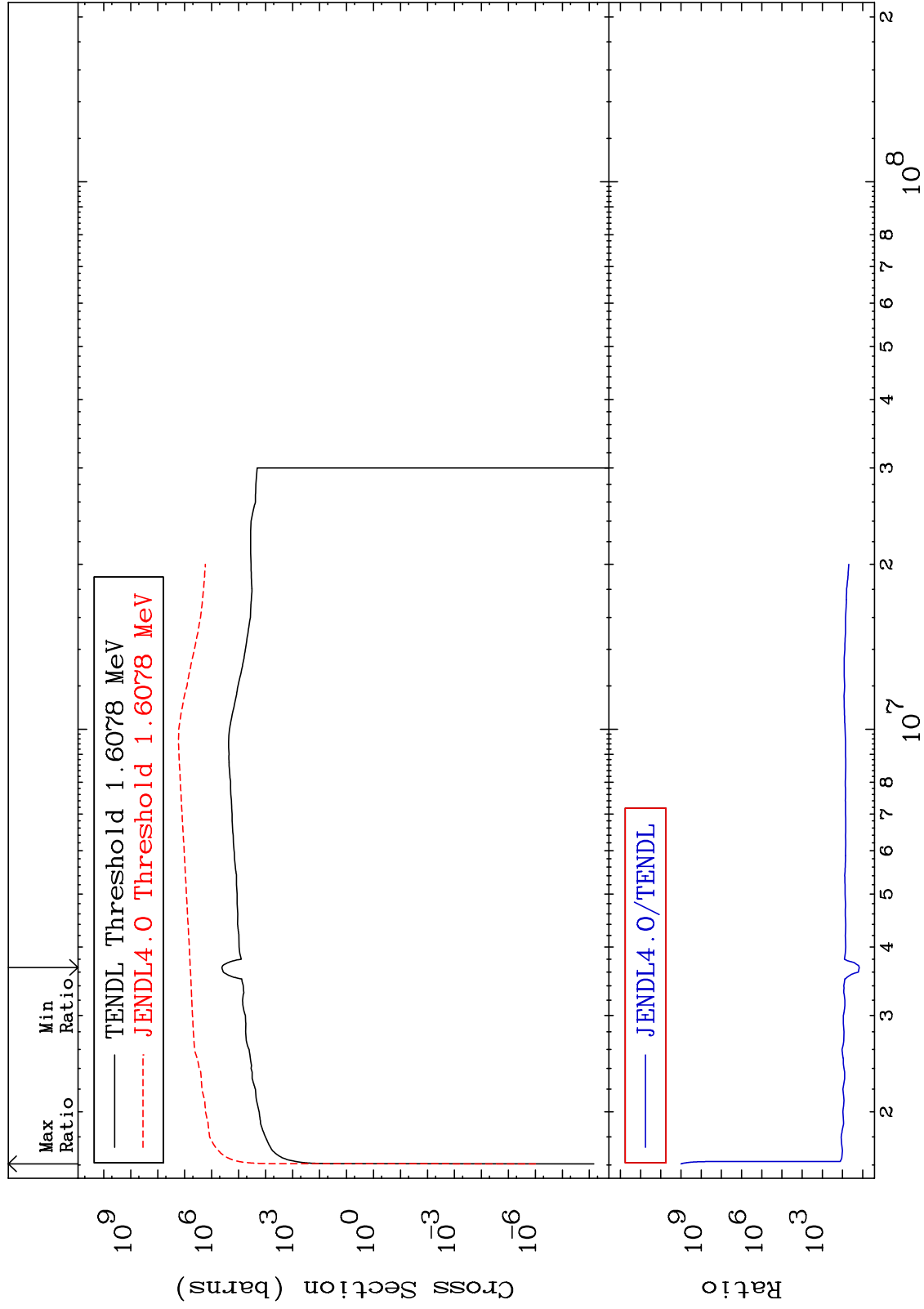
58-Ce-140
-9999. To 9999. %



32

Incident Energy (eV)

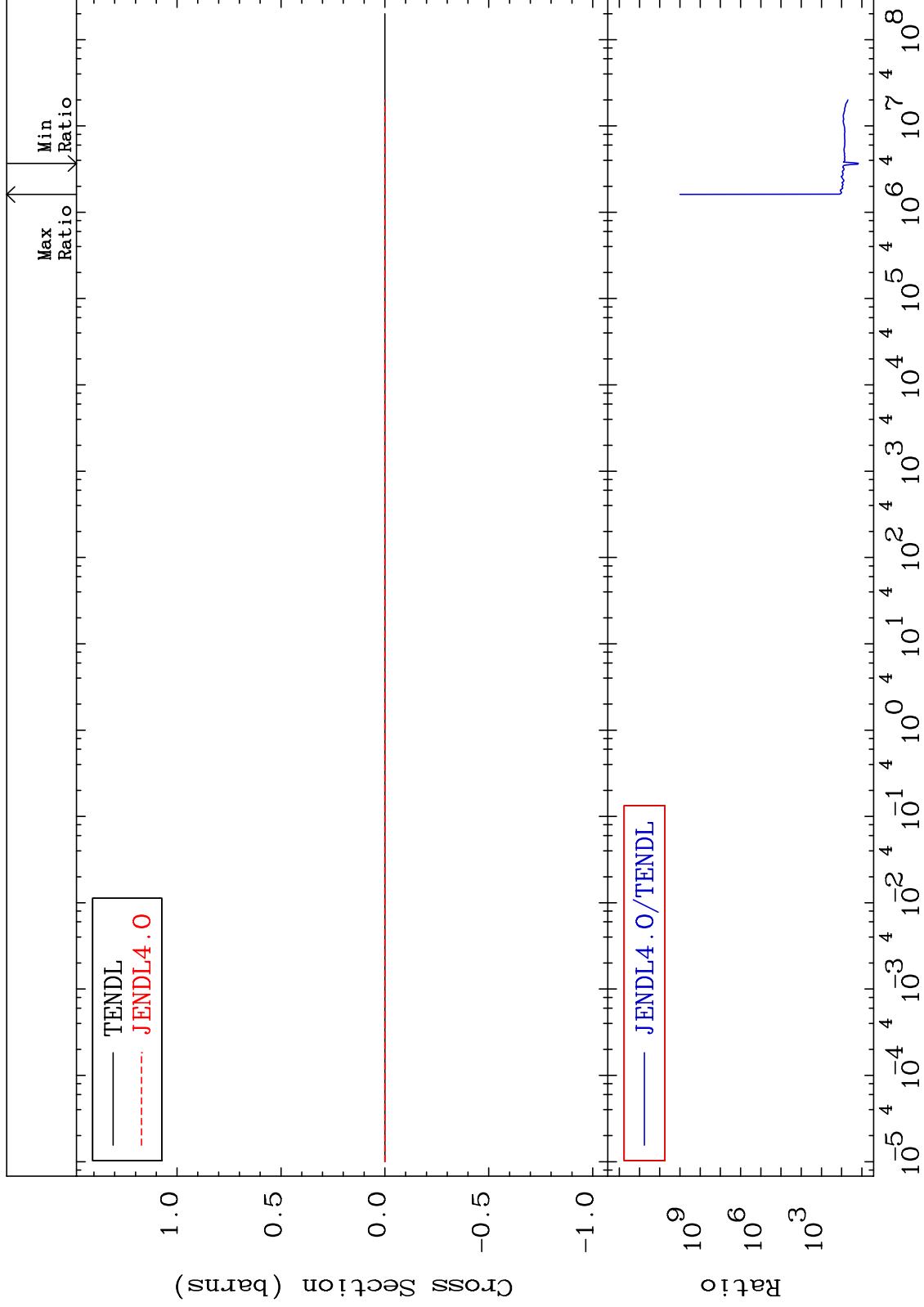
58-Ce-140



MAT 5837

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

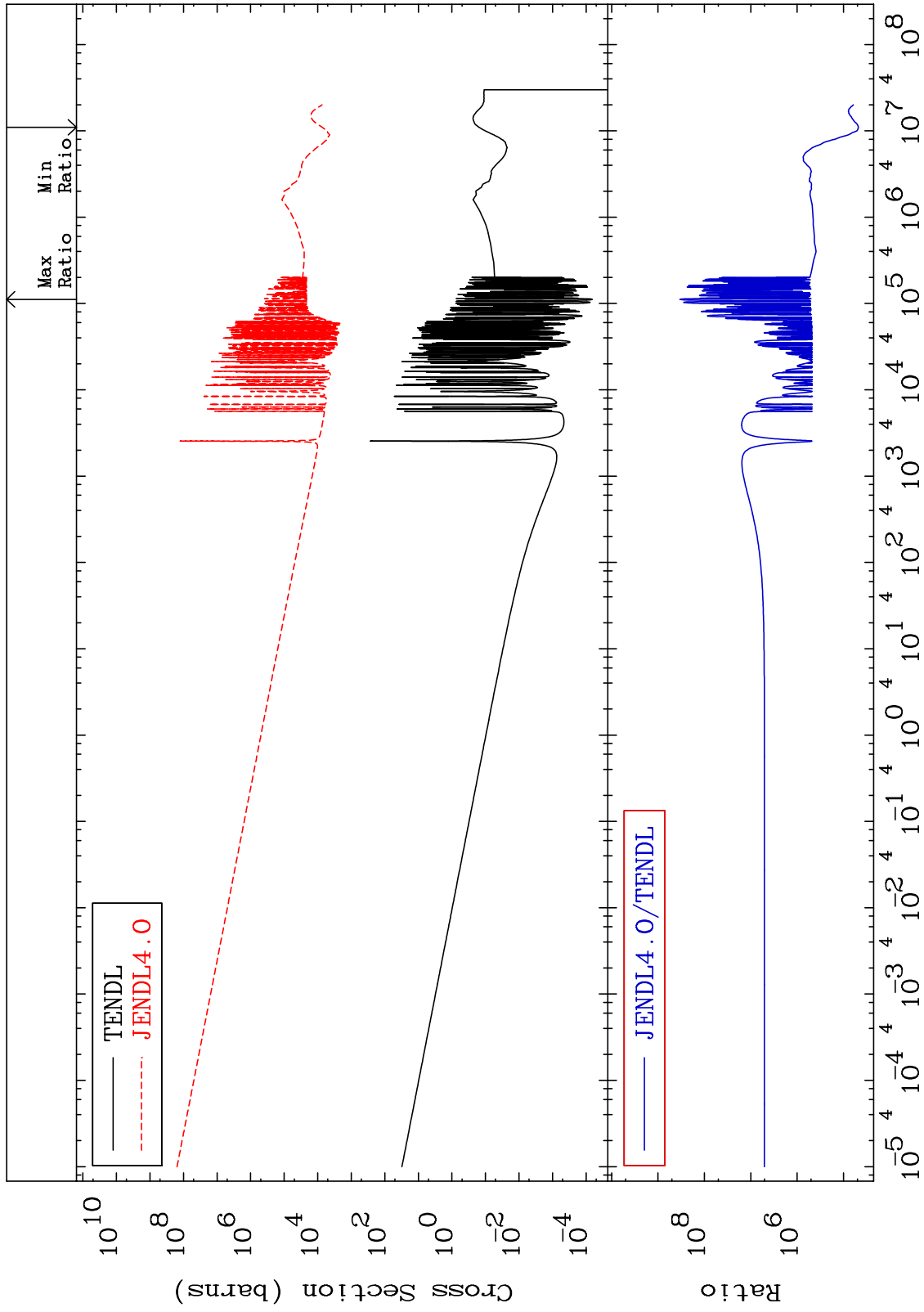
58-Ce-140
1379. To 9999. %



MAT 5837

Kerma capture (mt102)
Cross Section

58-Ce-140
9999. To 9999. %



35

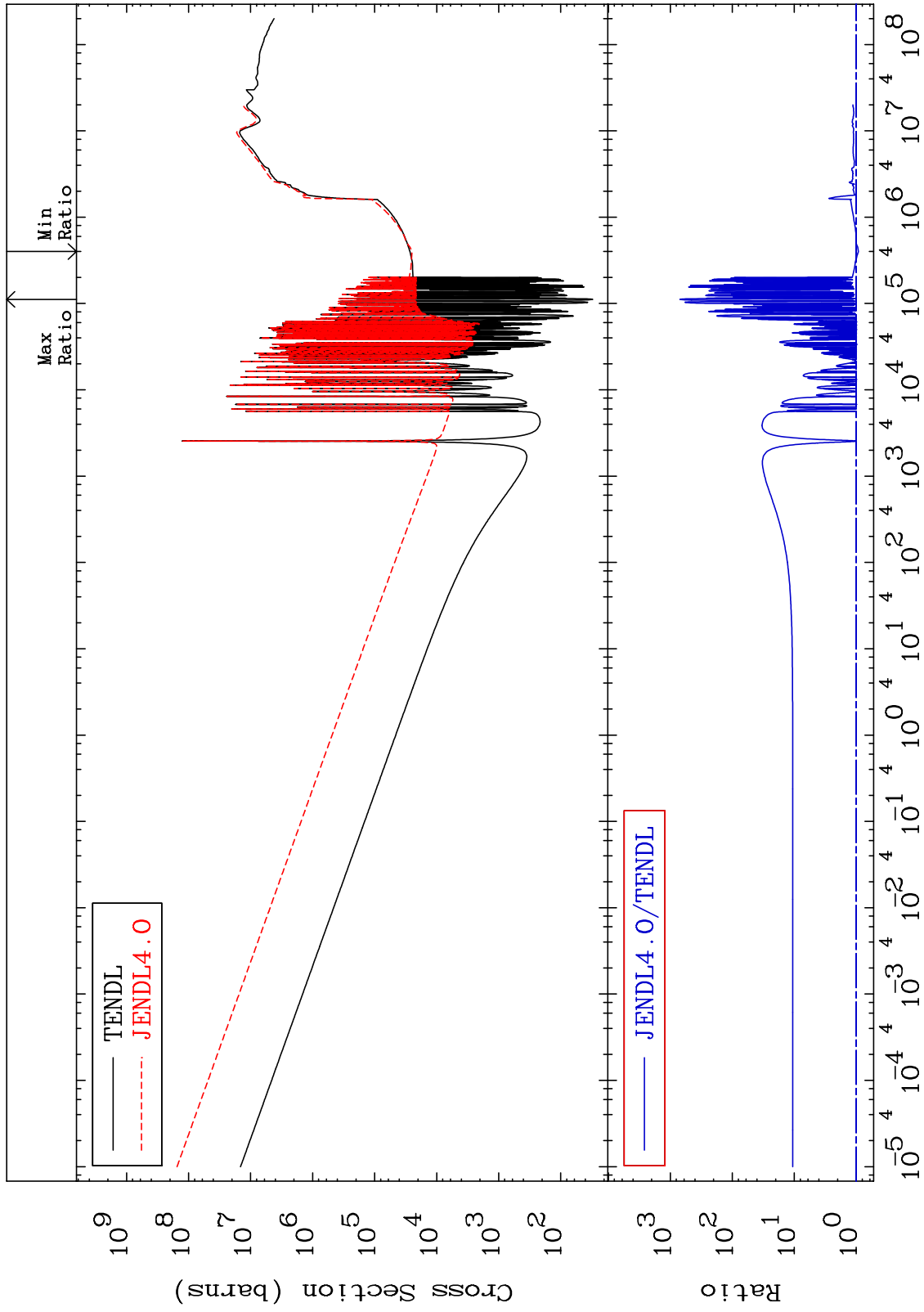
Incident Energy (eV)

58-Ce-140

MAT 5837

Total photon (eV-barns)
Cross Section

58-Ce-140
-7.754 To 9999. %

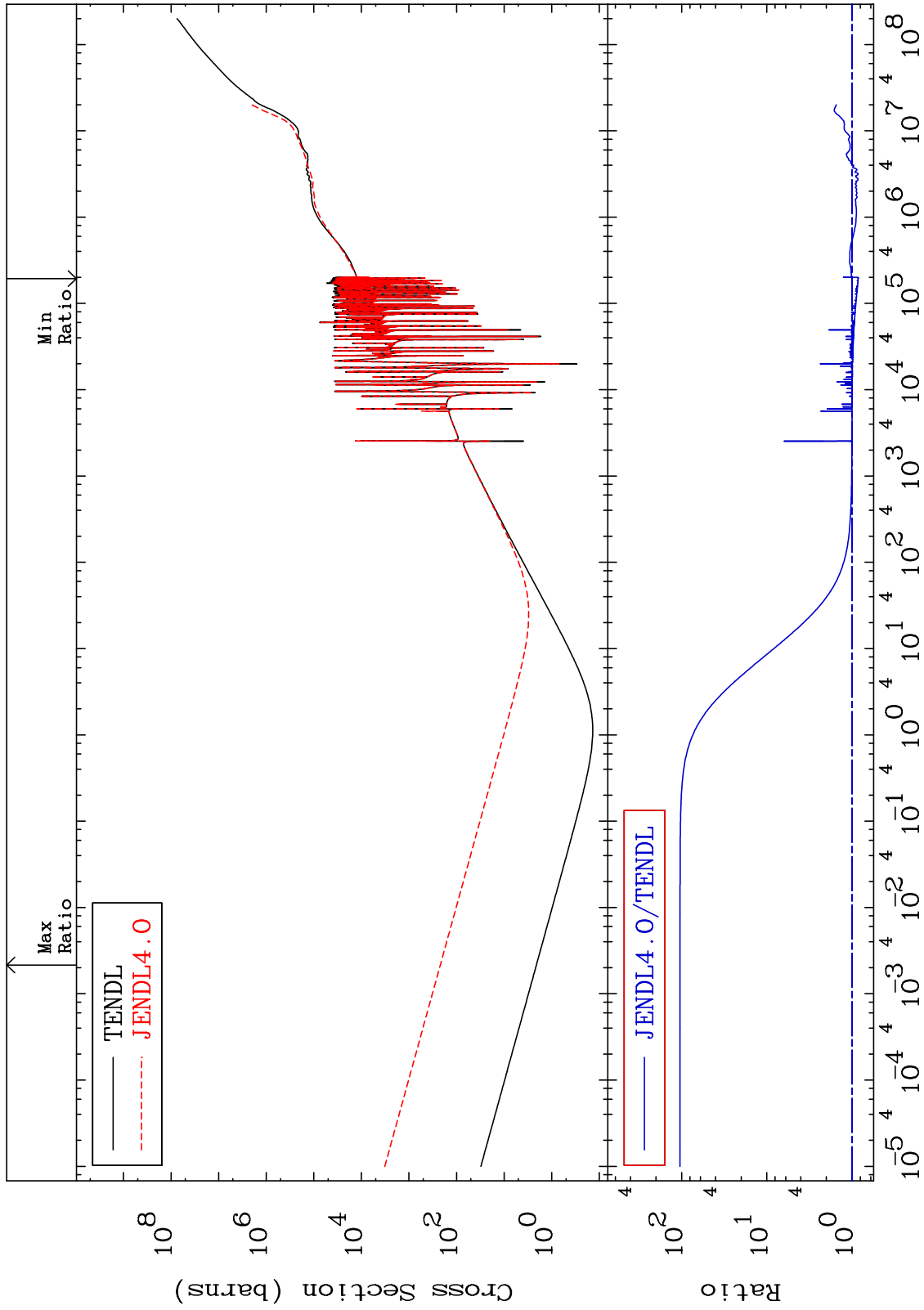


36

Incident Energy (eV)

58-Ce-140

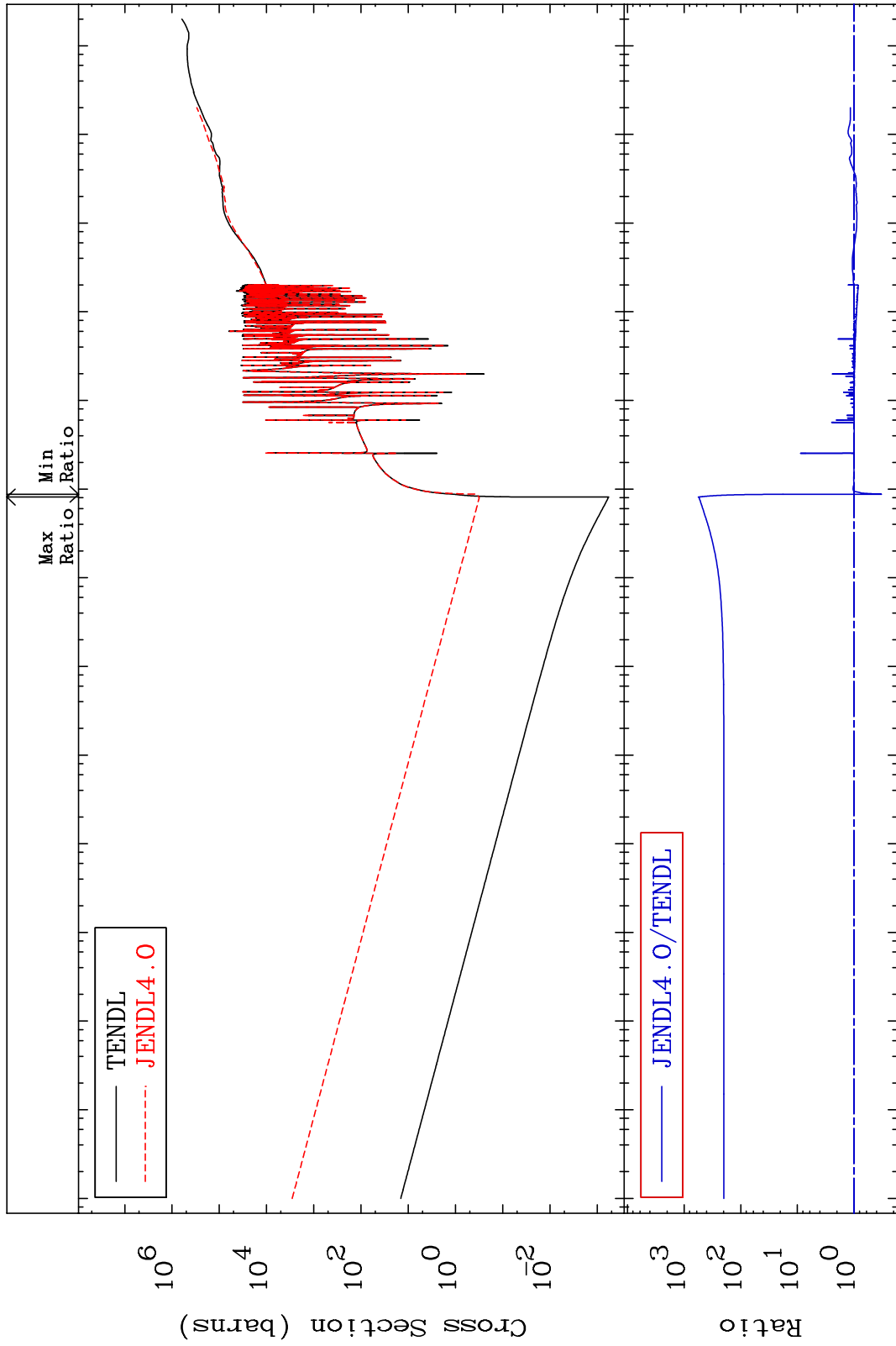
MAT 5837 Total kinematic kerma (high limit) 58-Ce-140
 Cross Section -15.98 To 9999. %



MAT 5837

Dpa total (eV-barns)
Cross Section

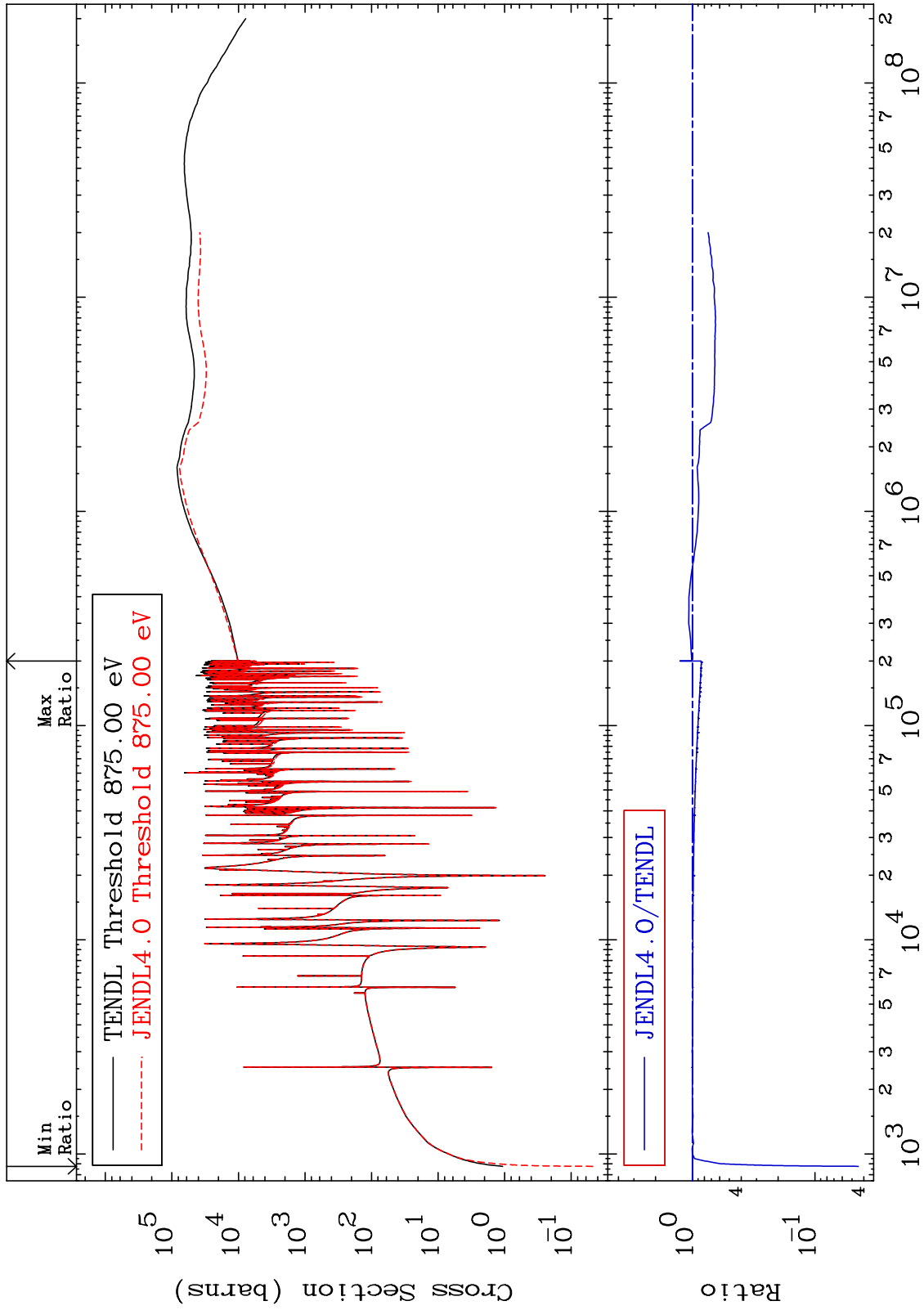
58-Ce-140
-67.36 To 9999. %



MAT 5837

Dpa elastic (mt2)
Cross Section

58-Ce-140
-95.57 To 26.14 %



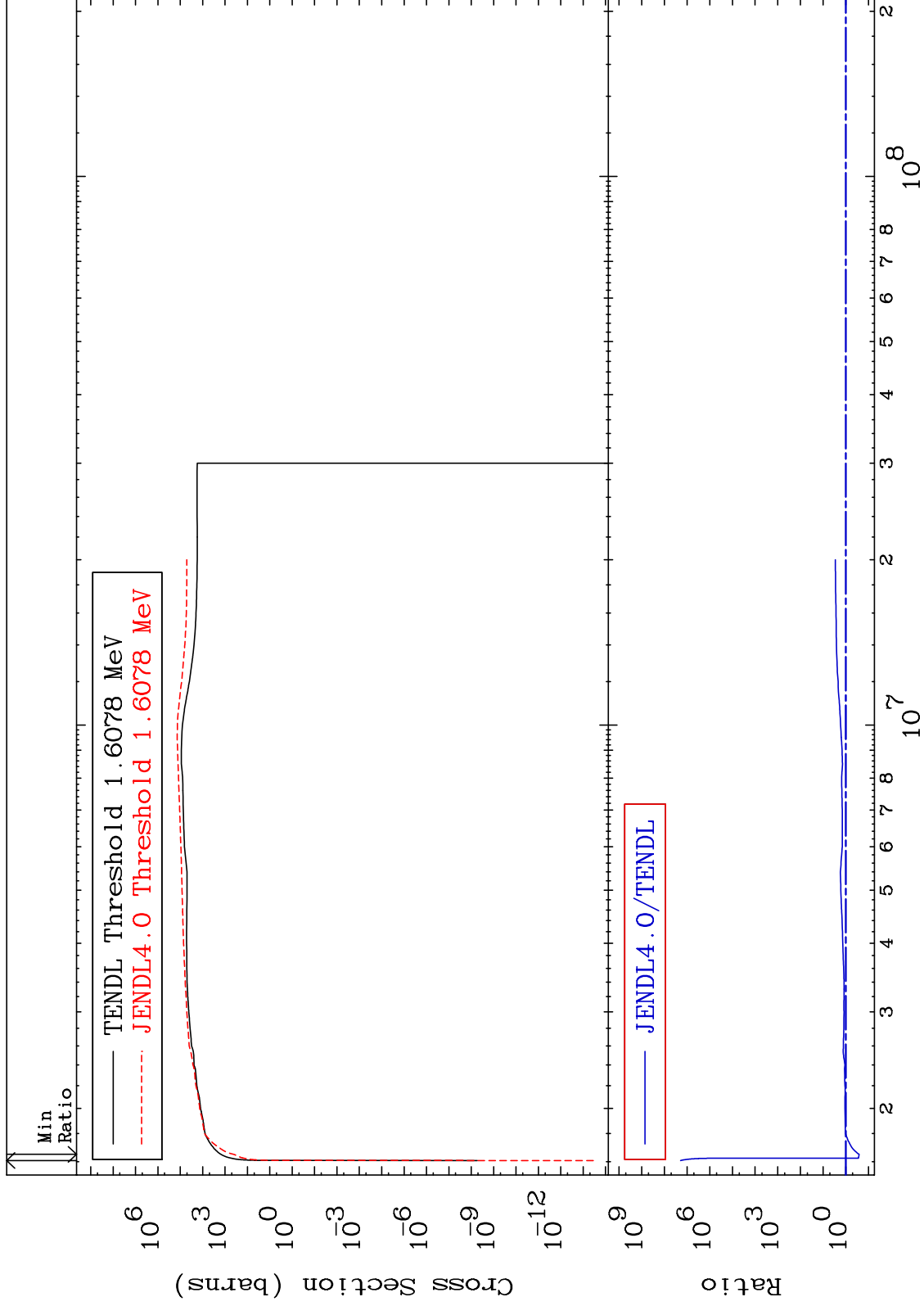
39

58-Ce-140

MAT 5837

Dpa inelastic (mt51-91)
Cross Section

58-Ce-140
-74.17 To 9999. %



40

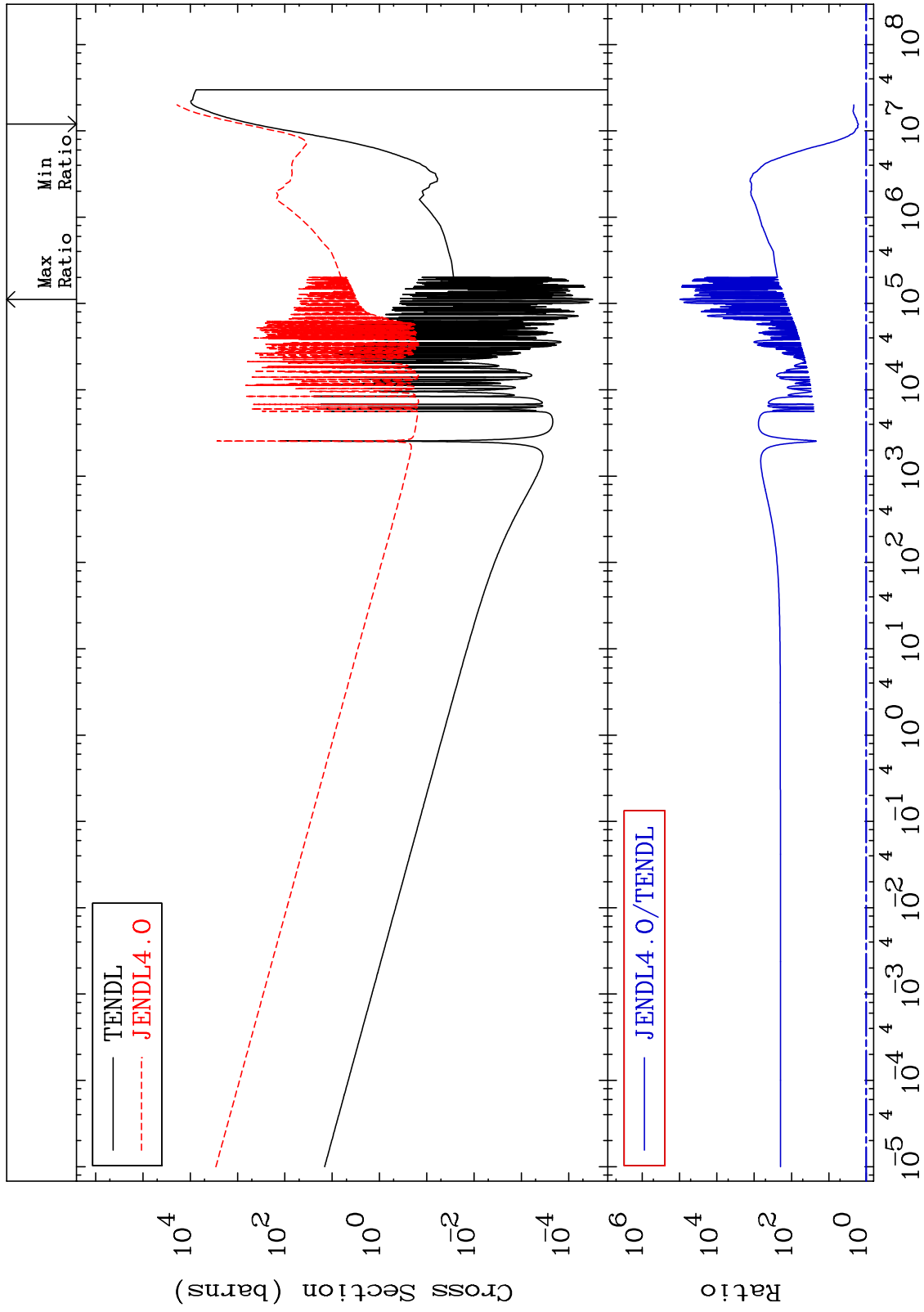
Incident Energy (eV)

58-Ce-140

MAT 5837

Dpa disappearance (mt102 -120)
Cross Section

58-Ce-140
61.81 To 9999. %



41

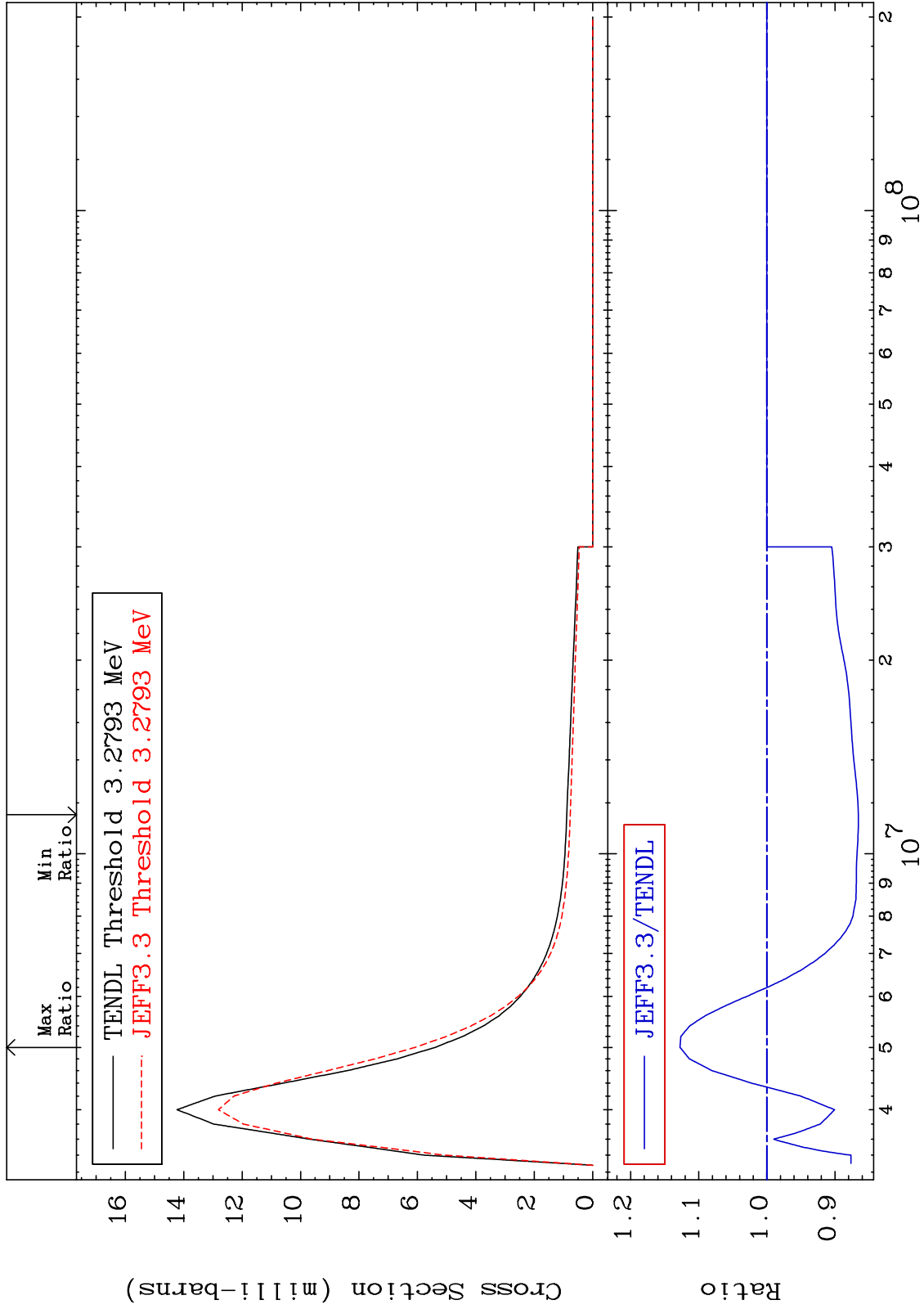
Incident Energy (eV)

58-Ce-140

MAT 5837

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

58-Ce-140
-13.44 To 12.75 %



42

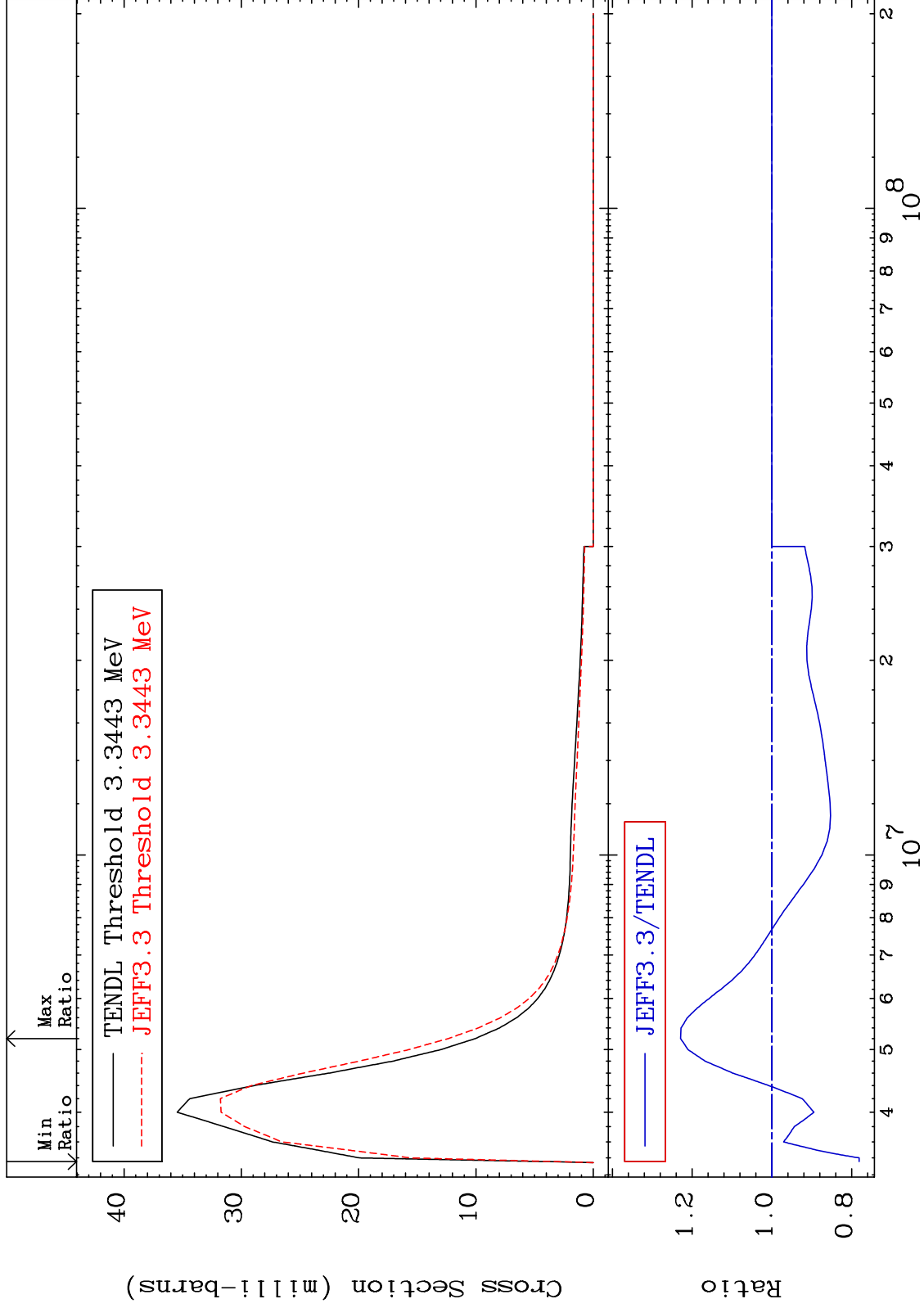
Incident Energy (eV)

58-Ce-140

MAT 5837

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

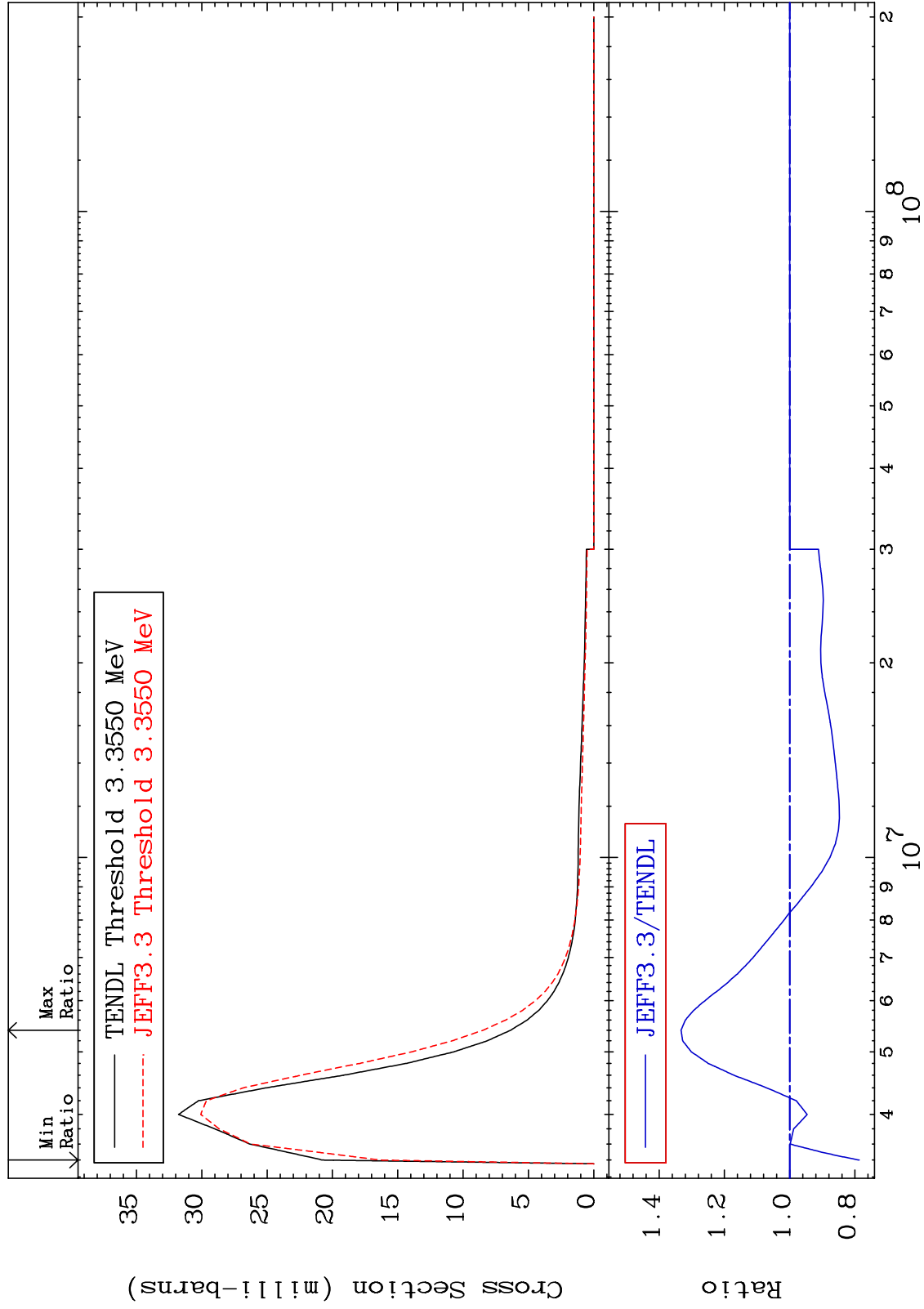
58-Ce-140
-21.88 To 22.89 %



MAT 5837

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

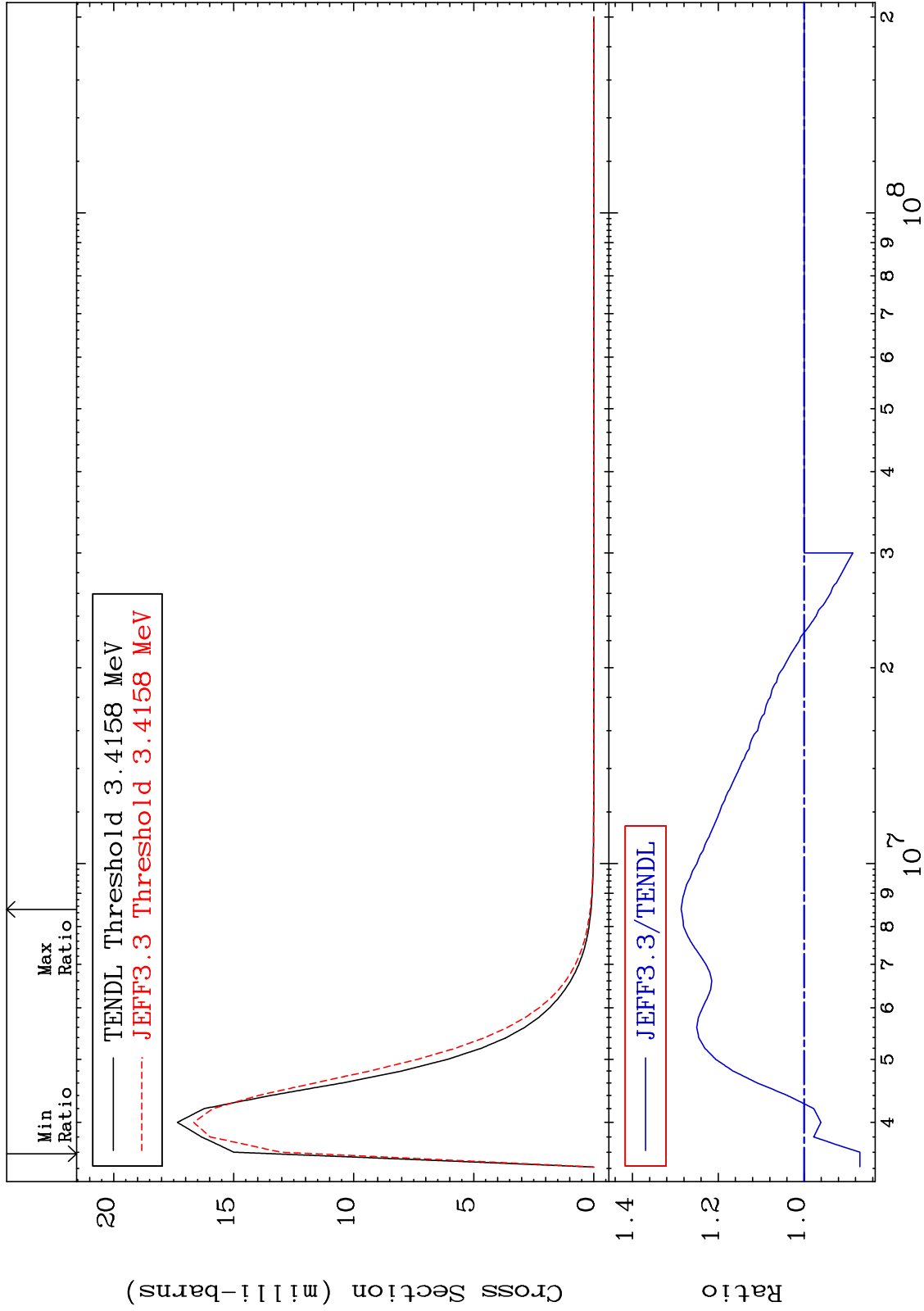
58-Ce-140
-21.32 To 33.29 %



MAT 5837

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

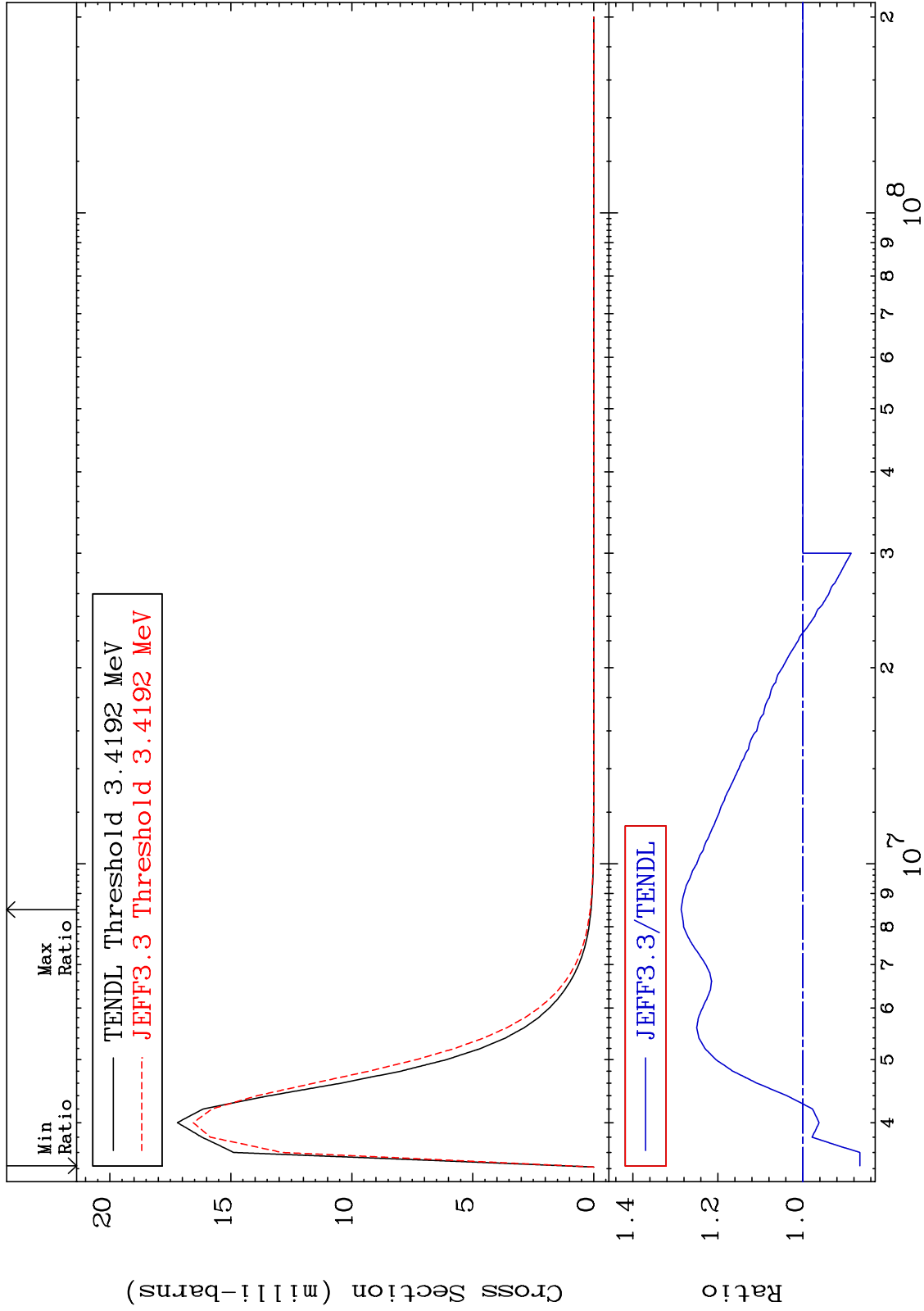
58-Ce-140
-13.01 To 28.63 %



MAT 5837

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

58-Ce-140
-13.42 To 28.63 %



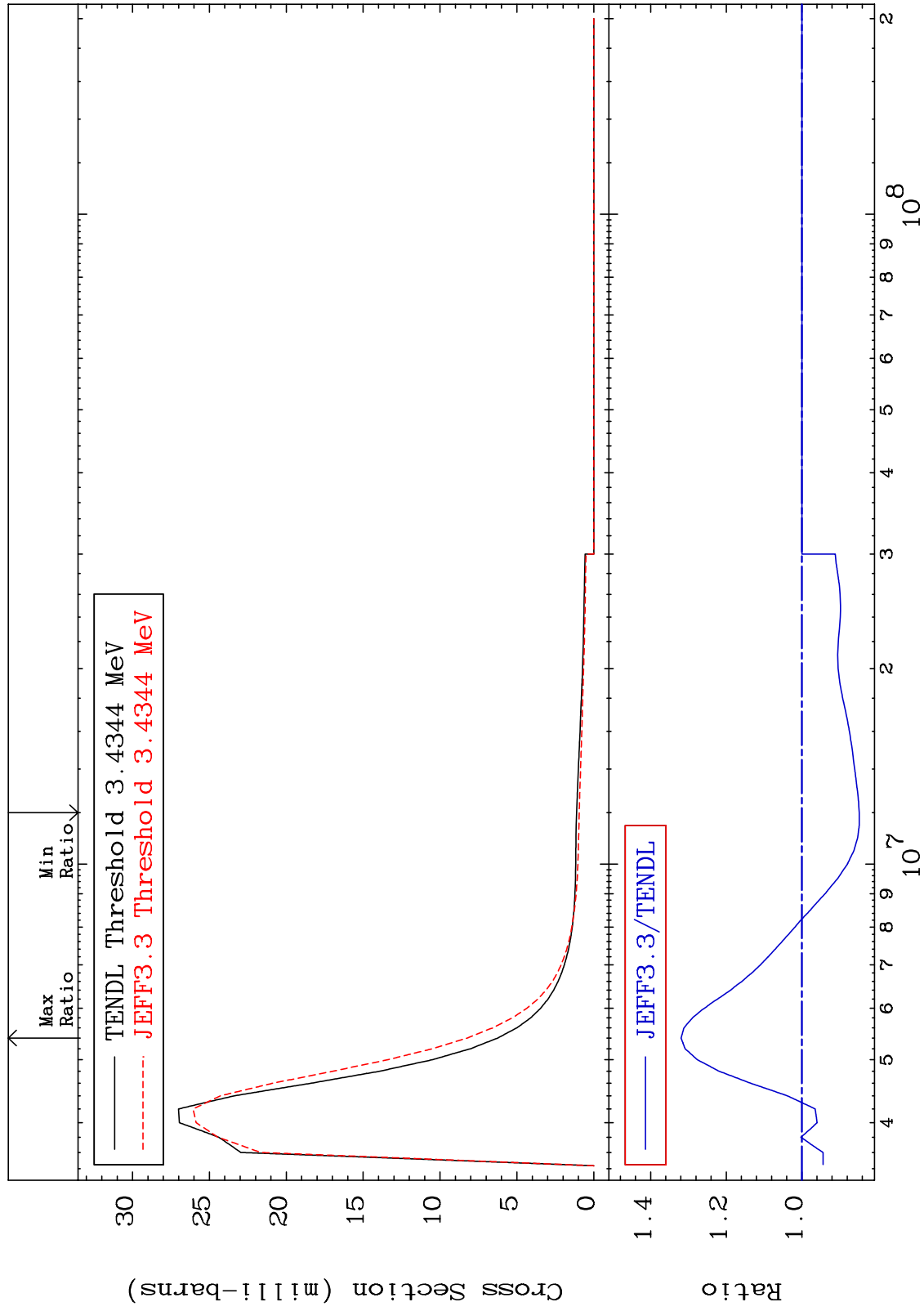
46

58-Ce-140

MAT 5837

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

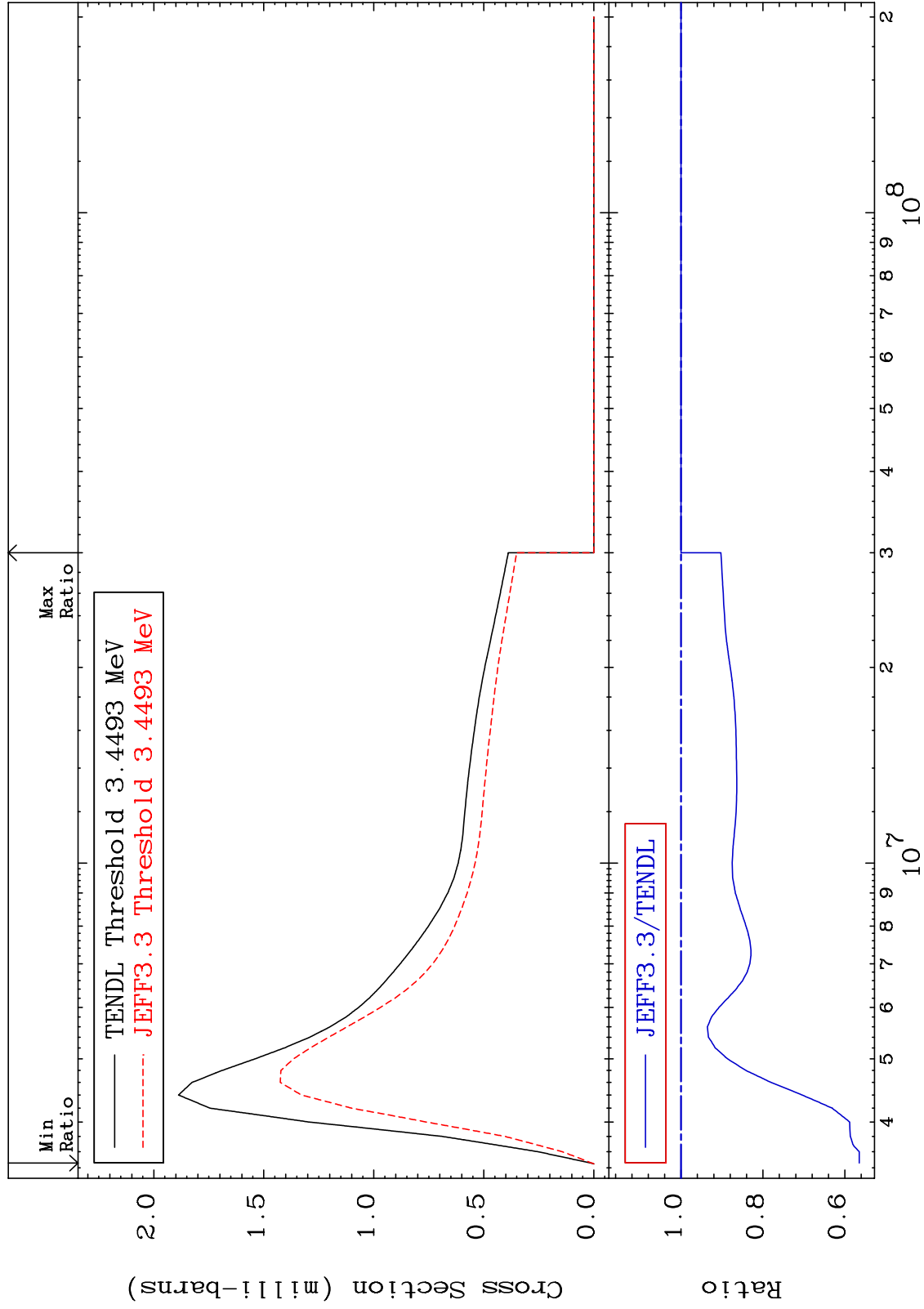
58-Ce-140
-15.20 To 31.95 %



MAT 5837

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

58-Ce-140
-43.52 To 0.000 %



48

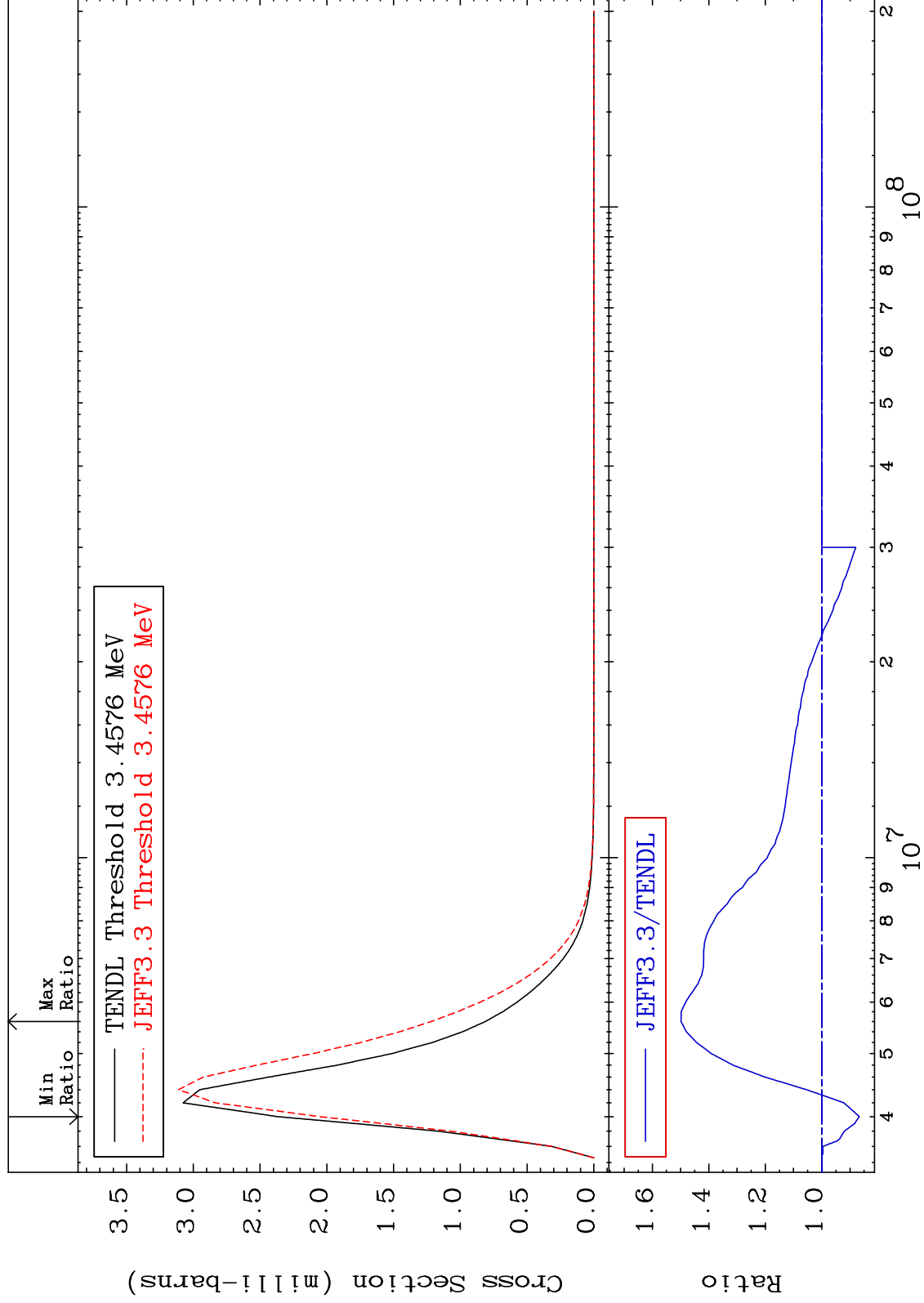
Incident Energy (eV)

58-Ce-140

MAT 5837

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

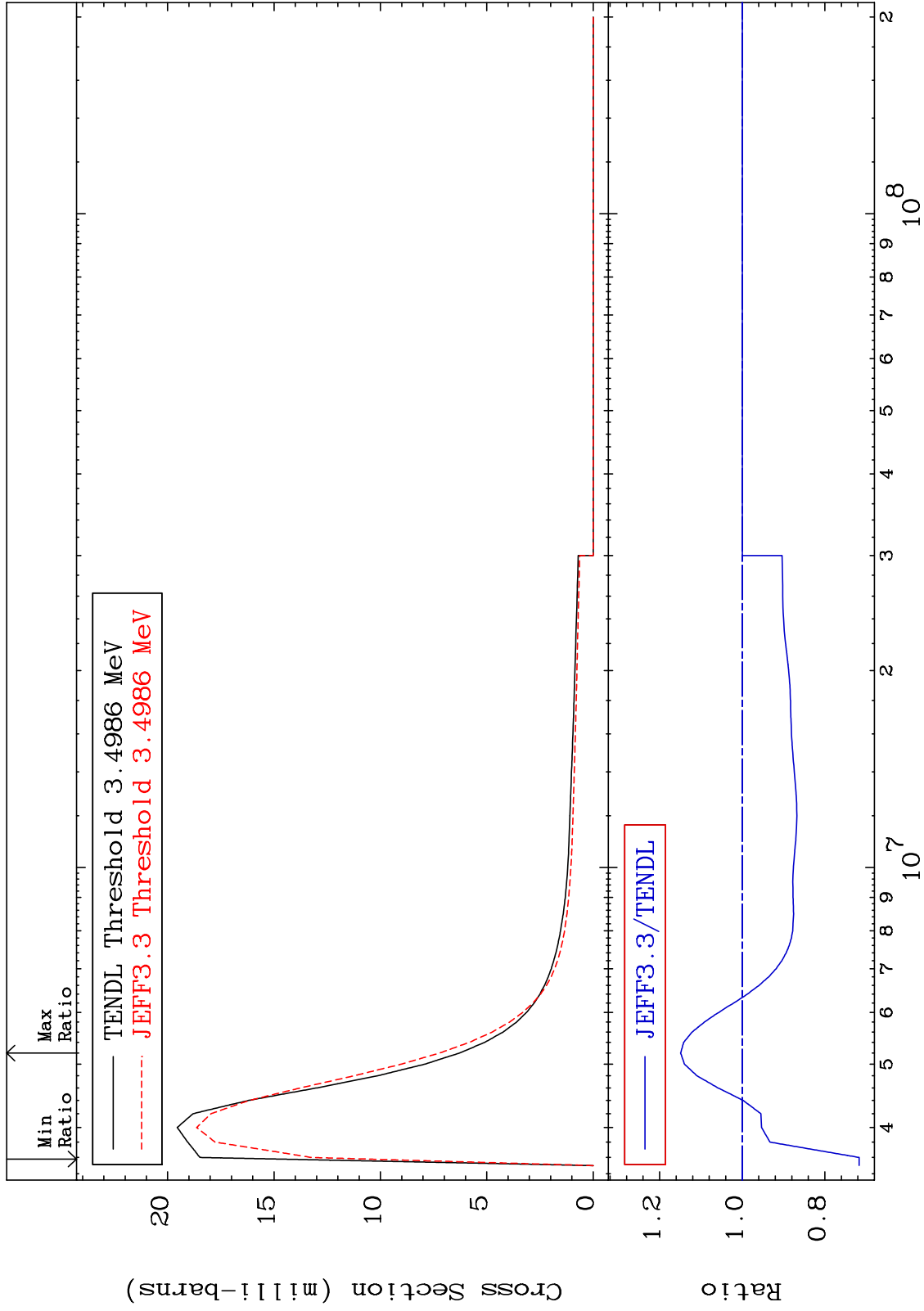
58-Ce-140
-13.29 To 49.84 %



MAT 5837

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

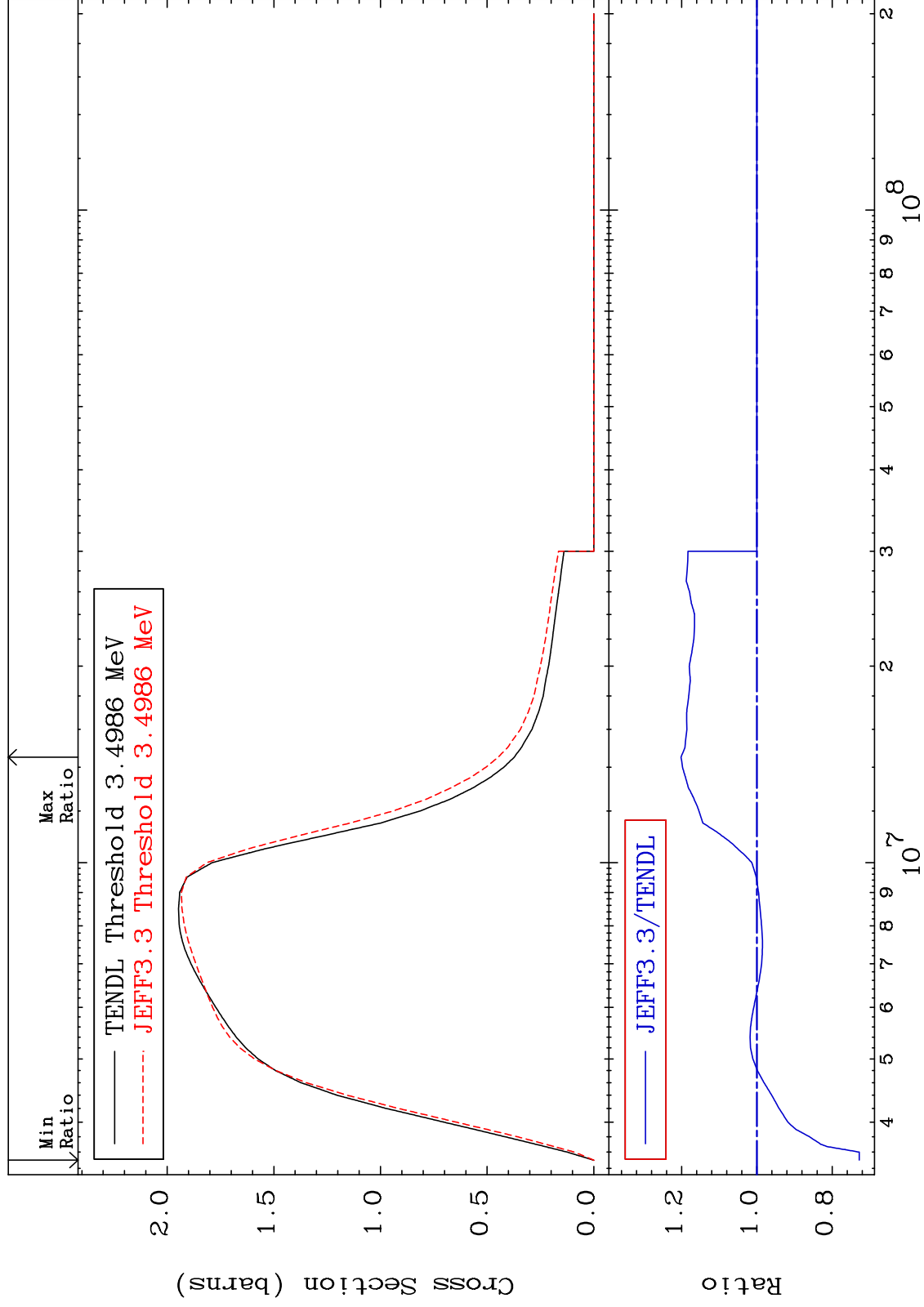
58-Ce-140
-28.30 To 14.92 %



MAT 5837

(n, n') Continuum
Cross Section

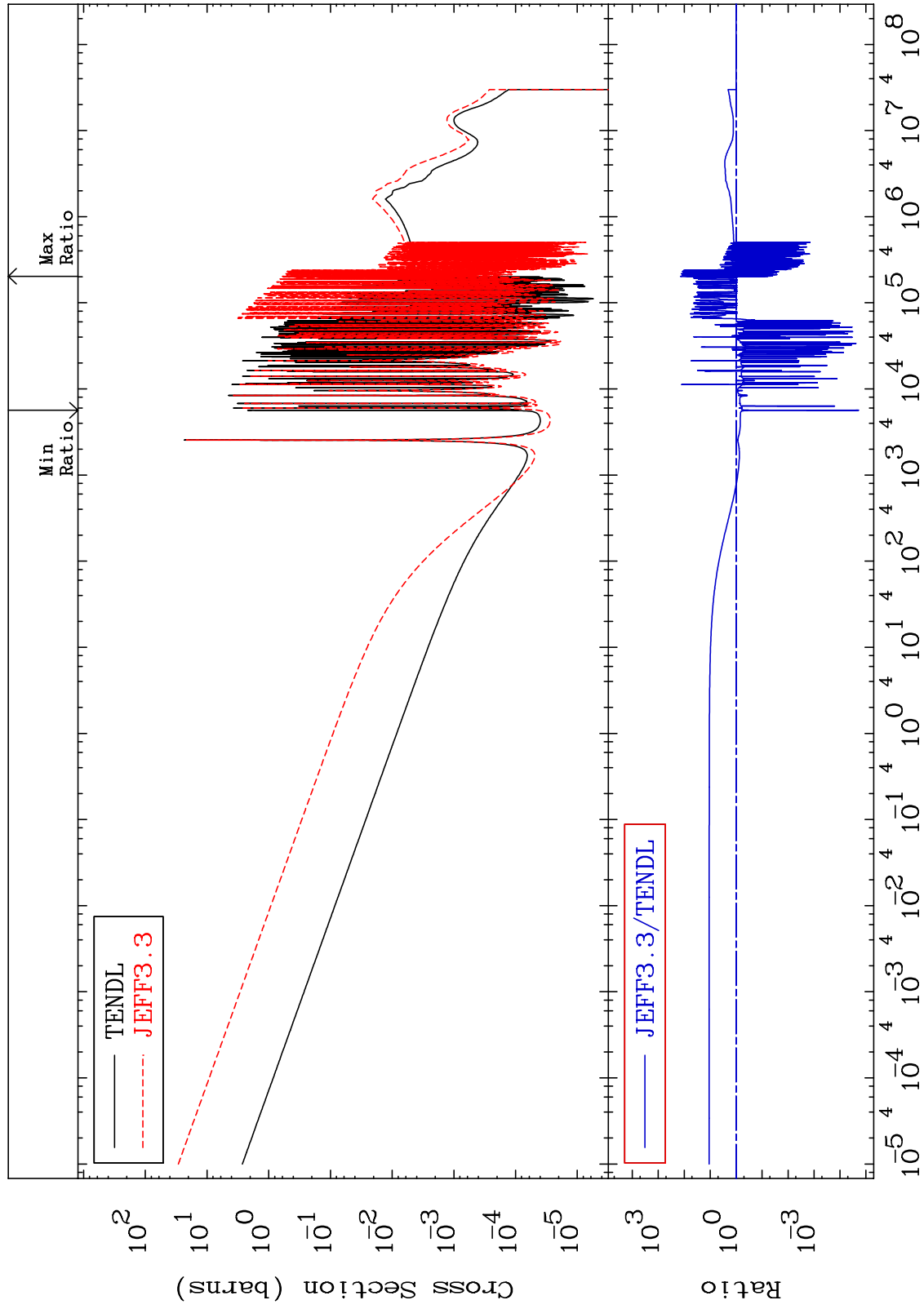
58-Ce-140
-27.23 To 20.18 %



MAT 5837

(n, γ)
Cross Section

58-Ce-140
-100.0 To 9999. %



52

Incident Energy (eV)

58-Ce-140

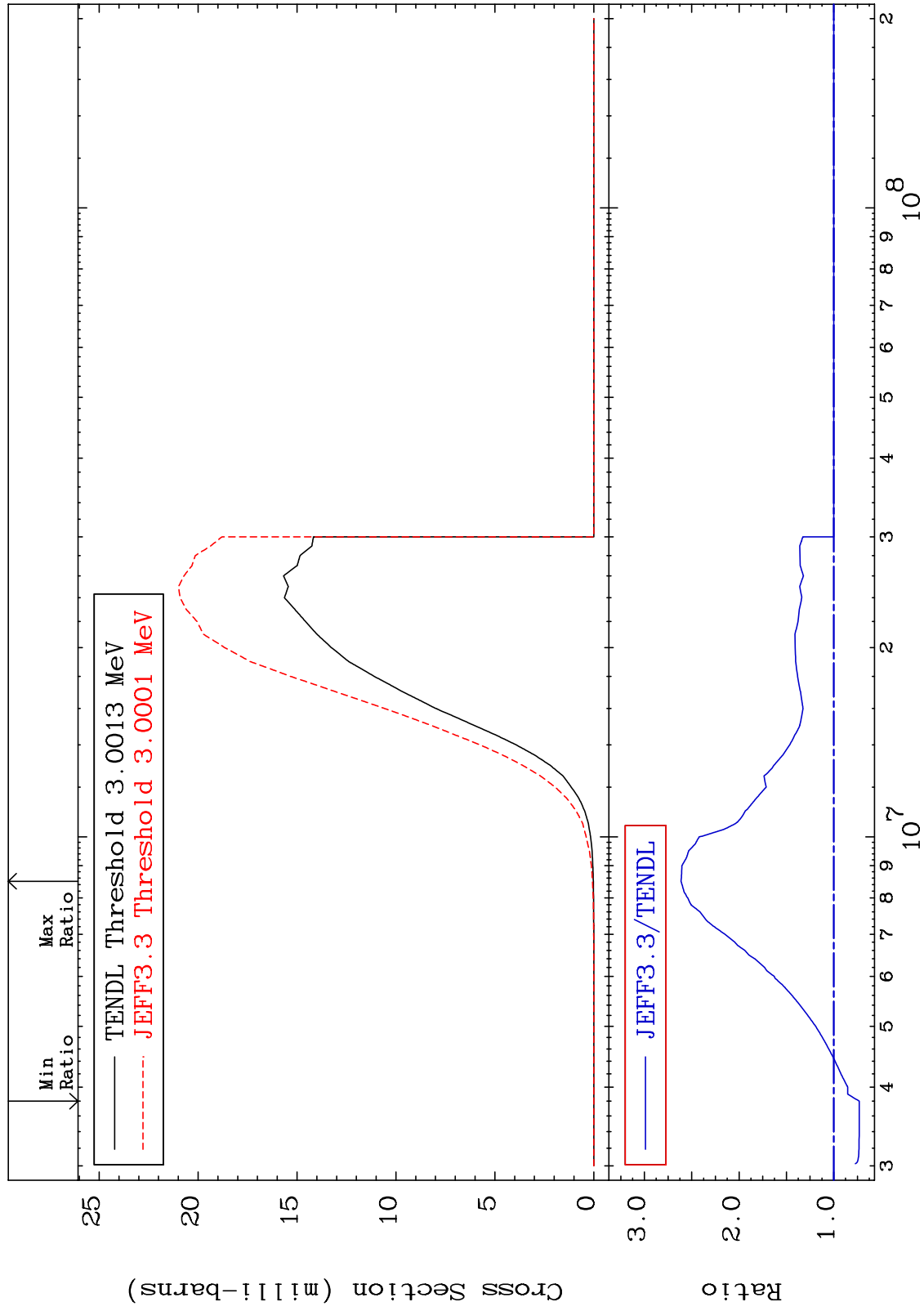
MAT 5837

(n, p)

58-Ce-140

Cross Section

-27.01 To 161.3 %



53

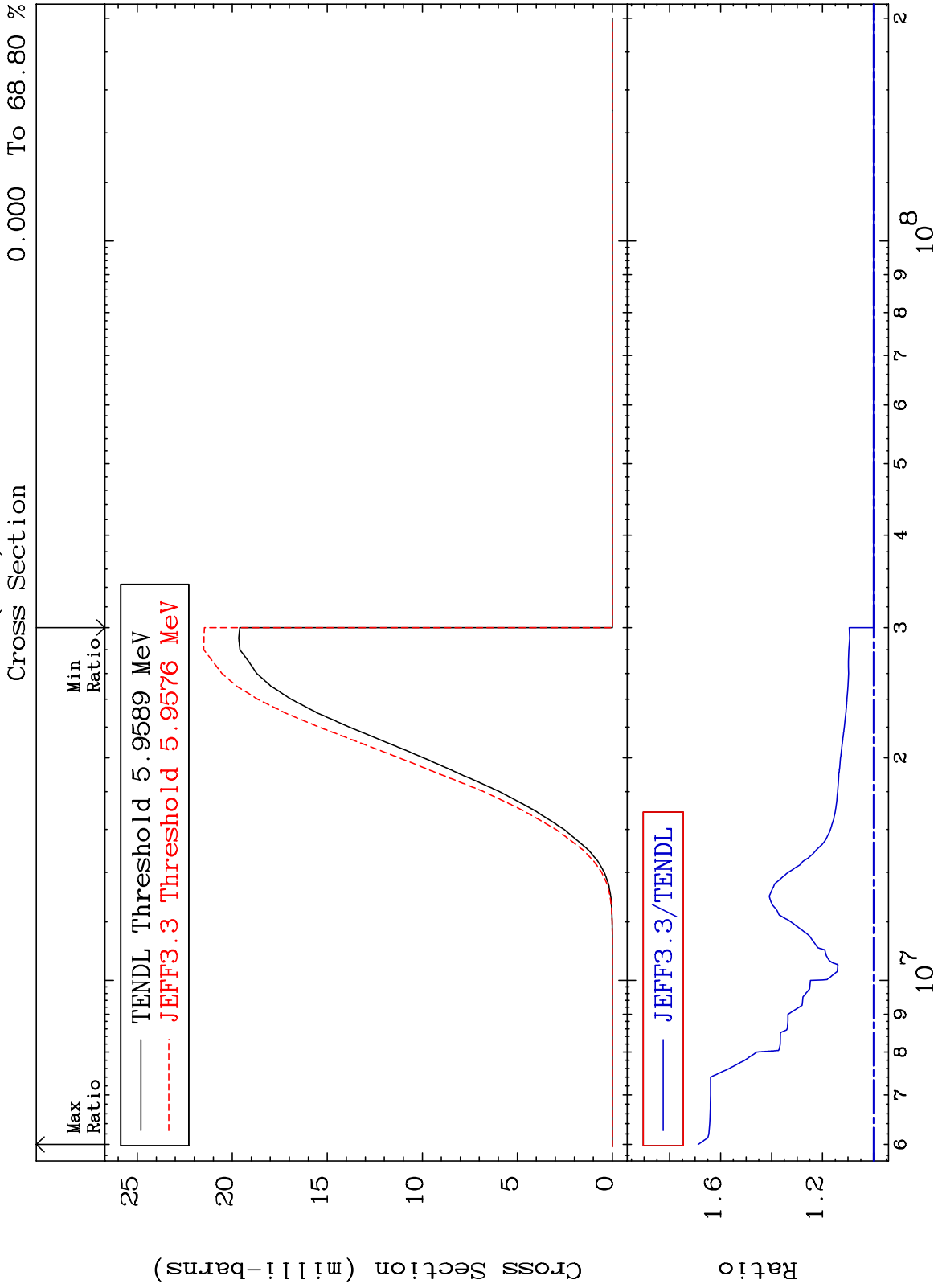
Incident Energy (eV)

58-Ce-140

MAT 5837

(n, d)

58-Ce-140
To 68.80 %
0.000



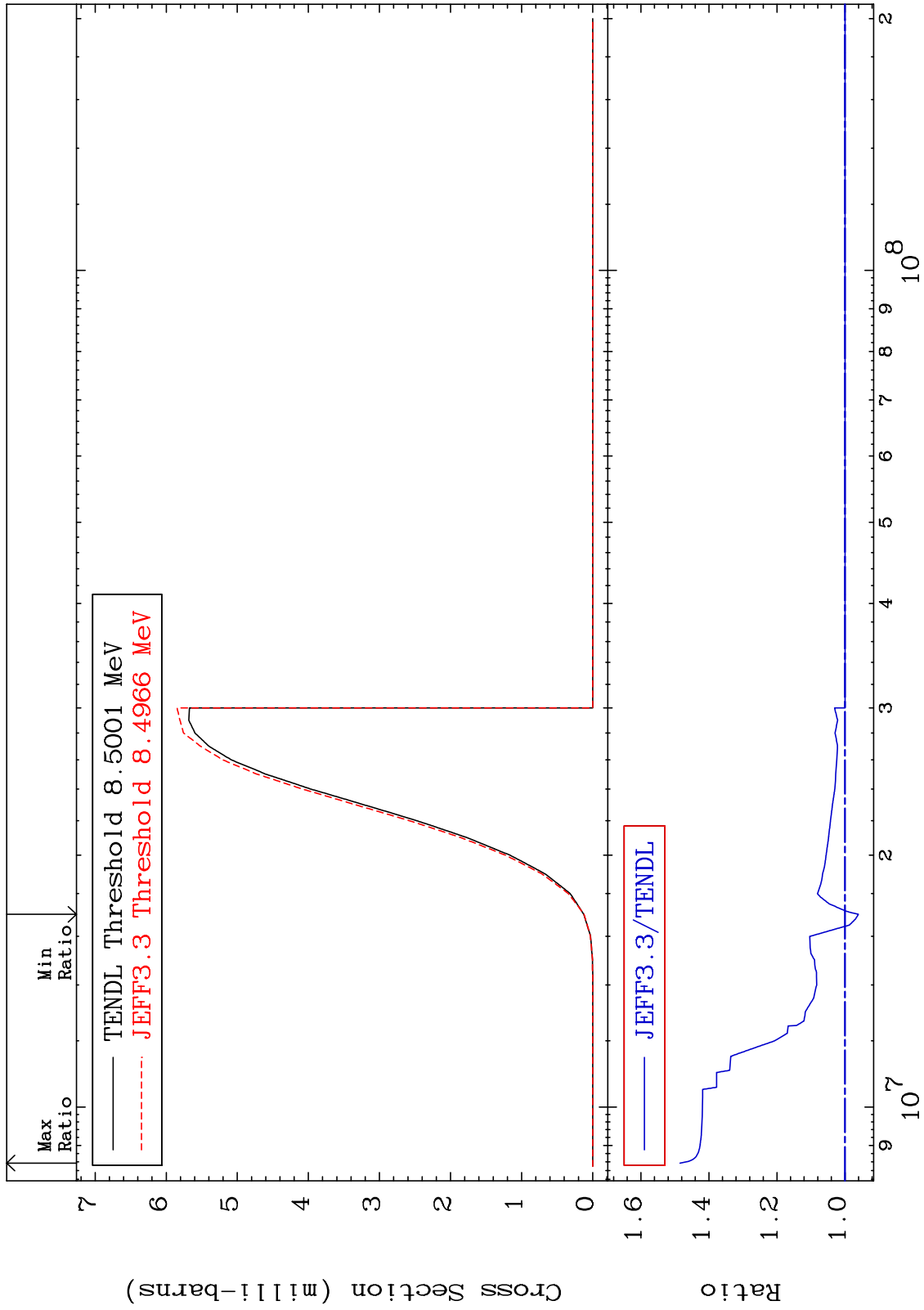
MAT 5837

(n, t)

58-Ce-140

Cross Section

-3.954 To 48.49 %



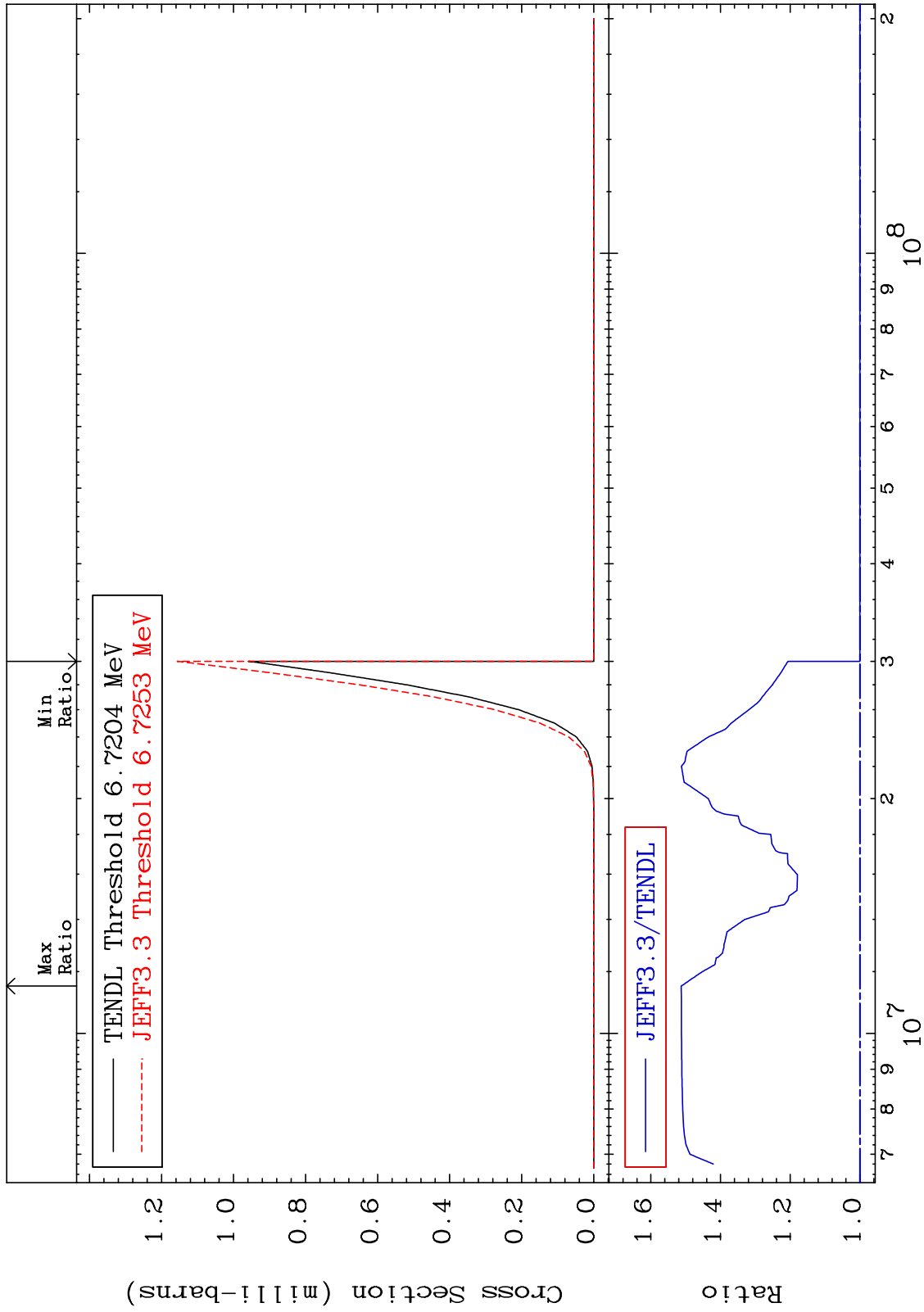
MAT 5837

(n, He-3)

58-Ce-140

Cross Section

0.000 To 51.29 %



56

Incident Energy (eV)

58-Ce-140

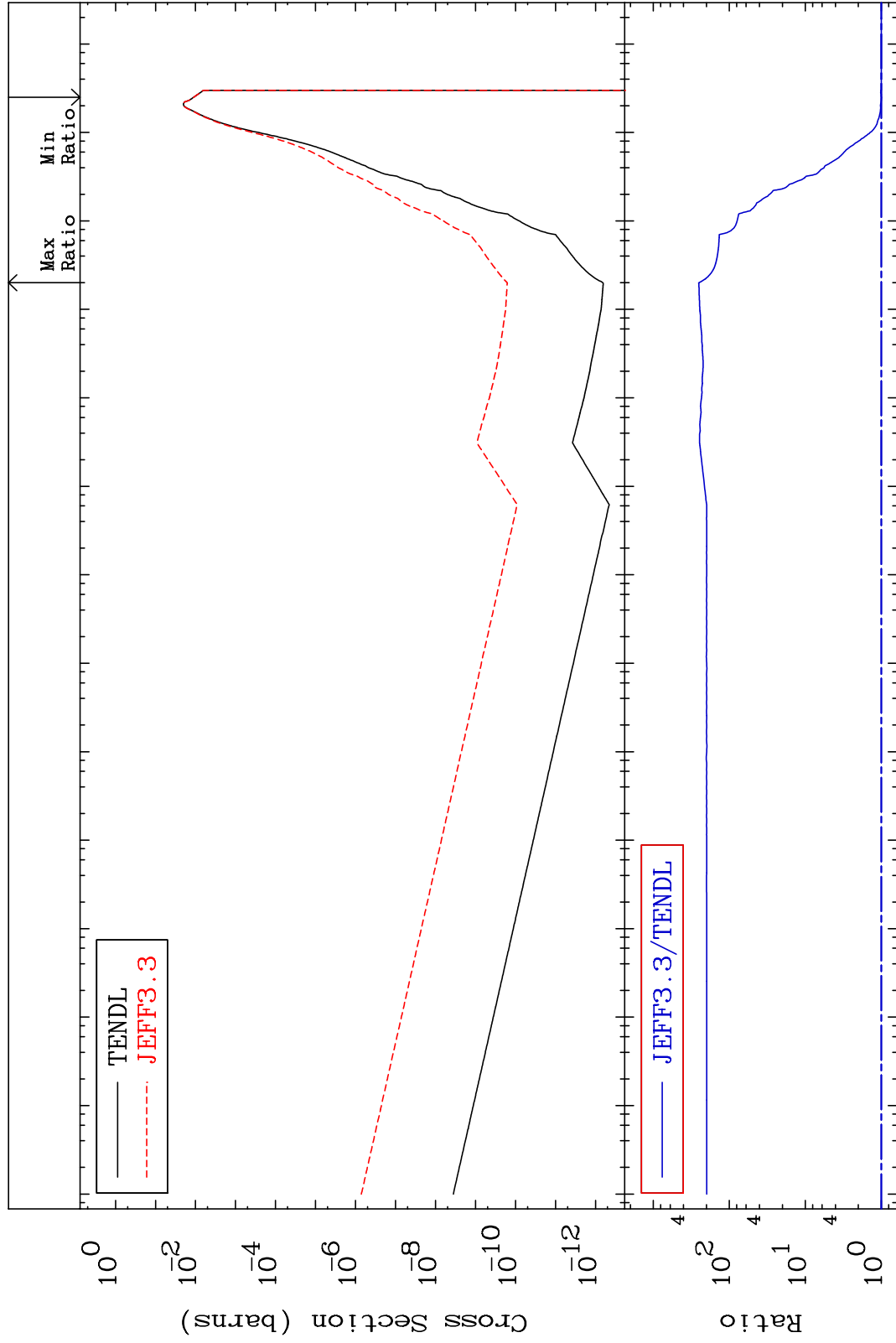
MAT 5837

(n, α)

58-Ce-140

Cross Section

-1.087 To 9999. %



Incident Energy (eV)

57

58-Ce-140

MAT 5837

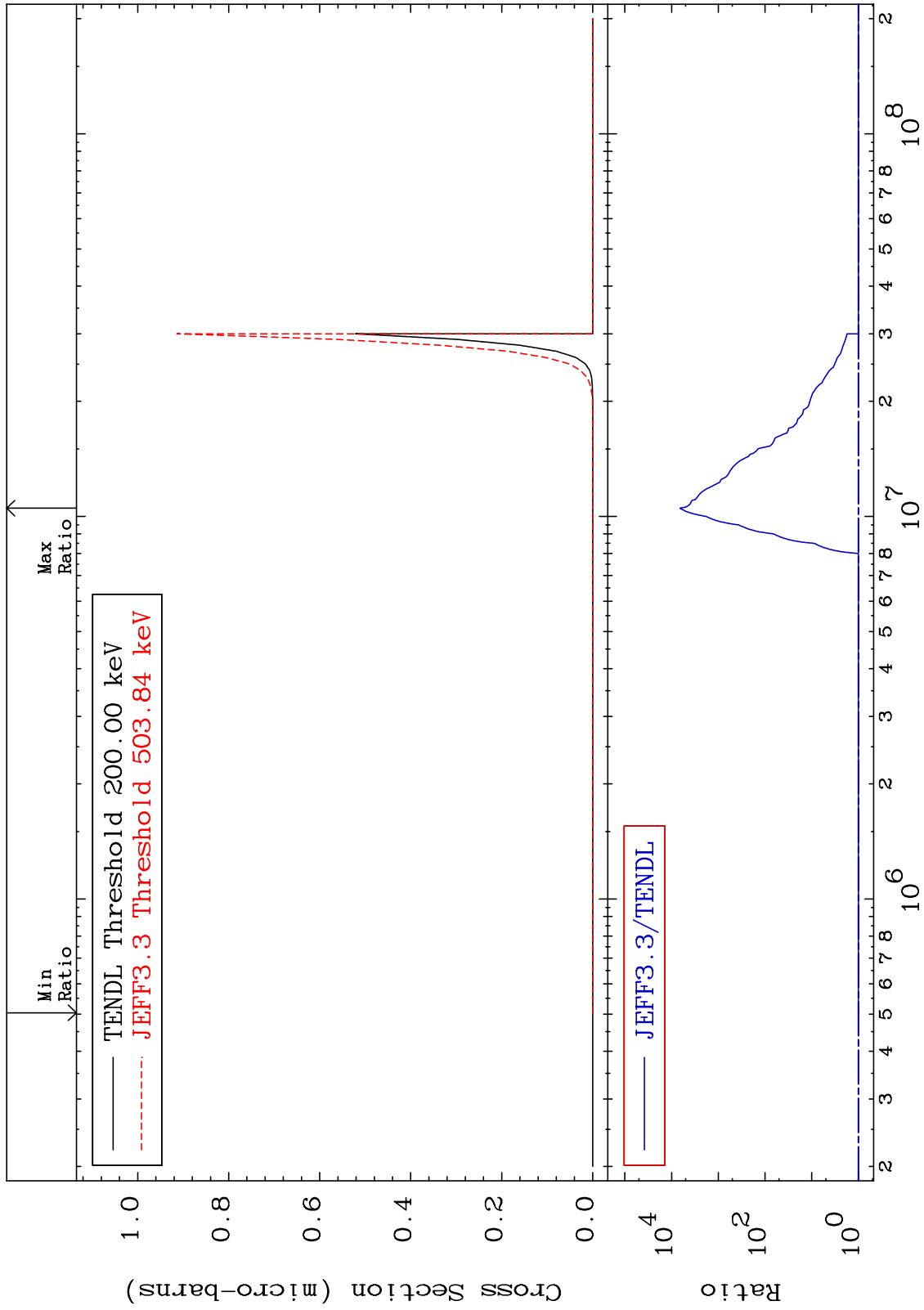
(n, 2α)

58-Ce-140

Cross Section

Cross Section

0.000 To 9999. %



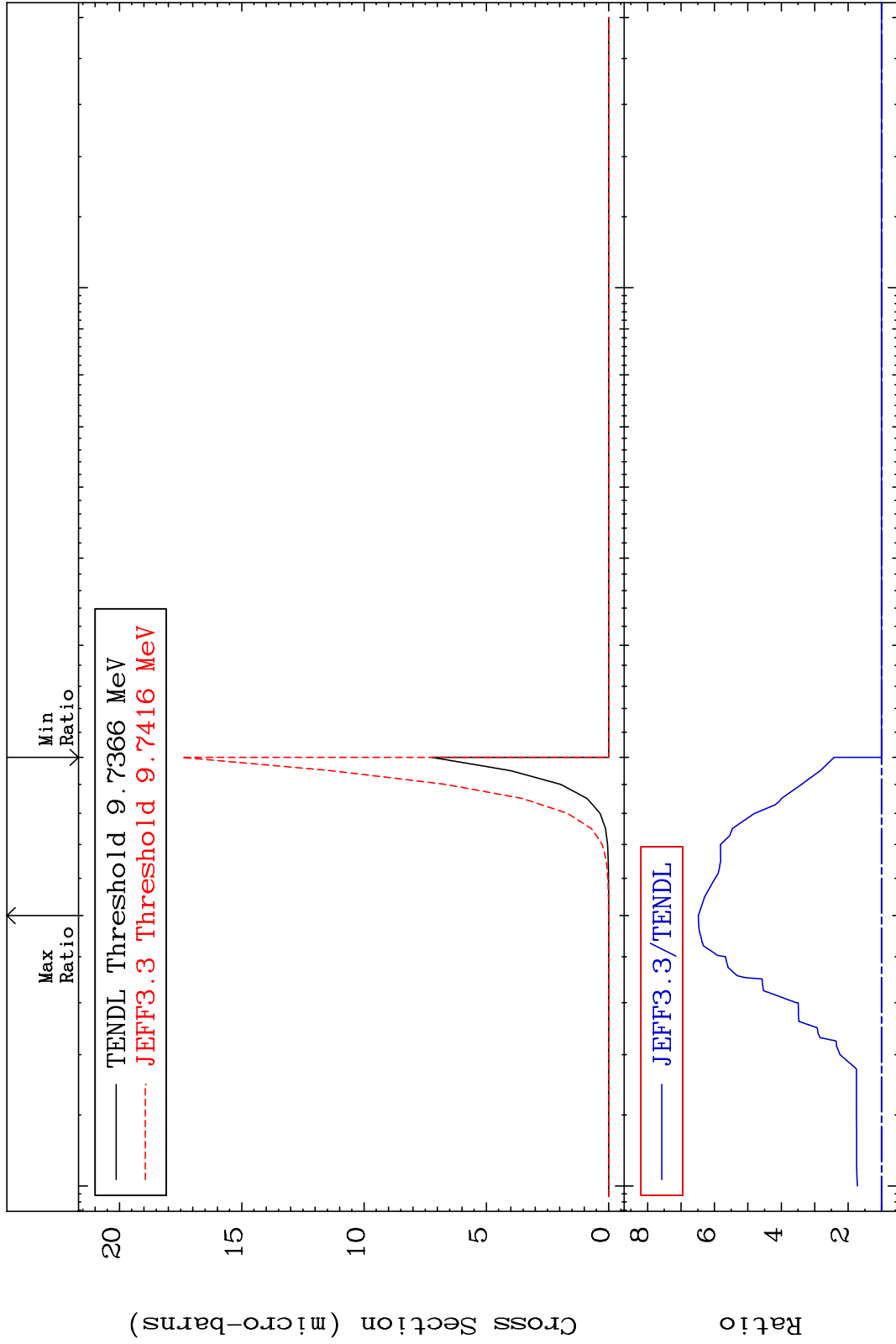
MAT 5837

(n,2p)

58-Ce-140

Cross Section

0.000 To 548.1 %



59

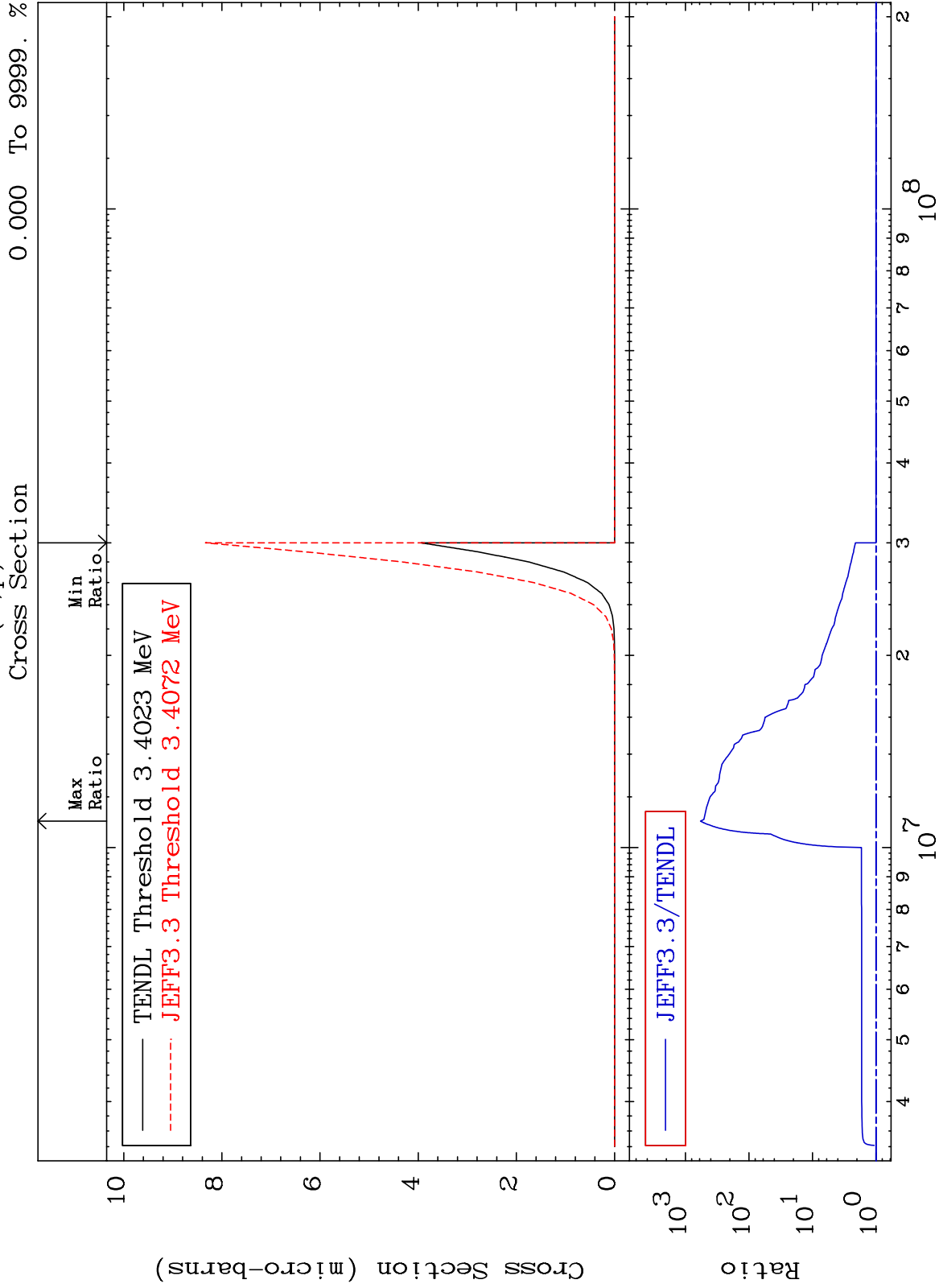
Incident Energy (eV)

58-Ce-140

MAT 5837

(n,p) α

58-Ce-140
To 9999. %
0.000



MAT 5837

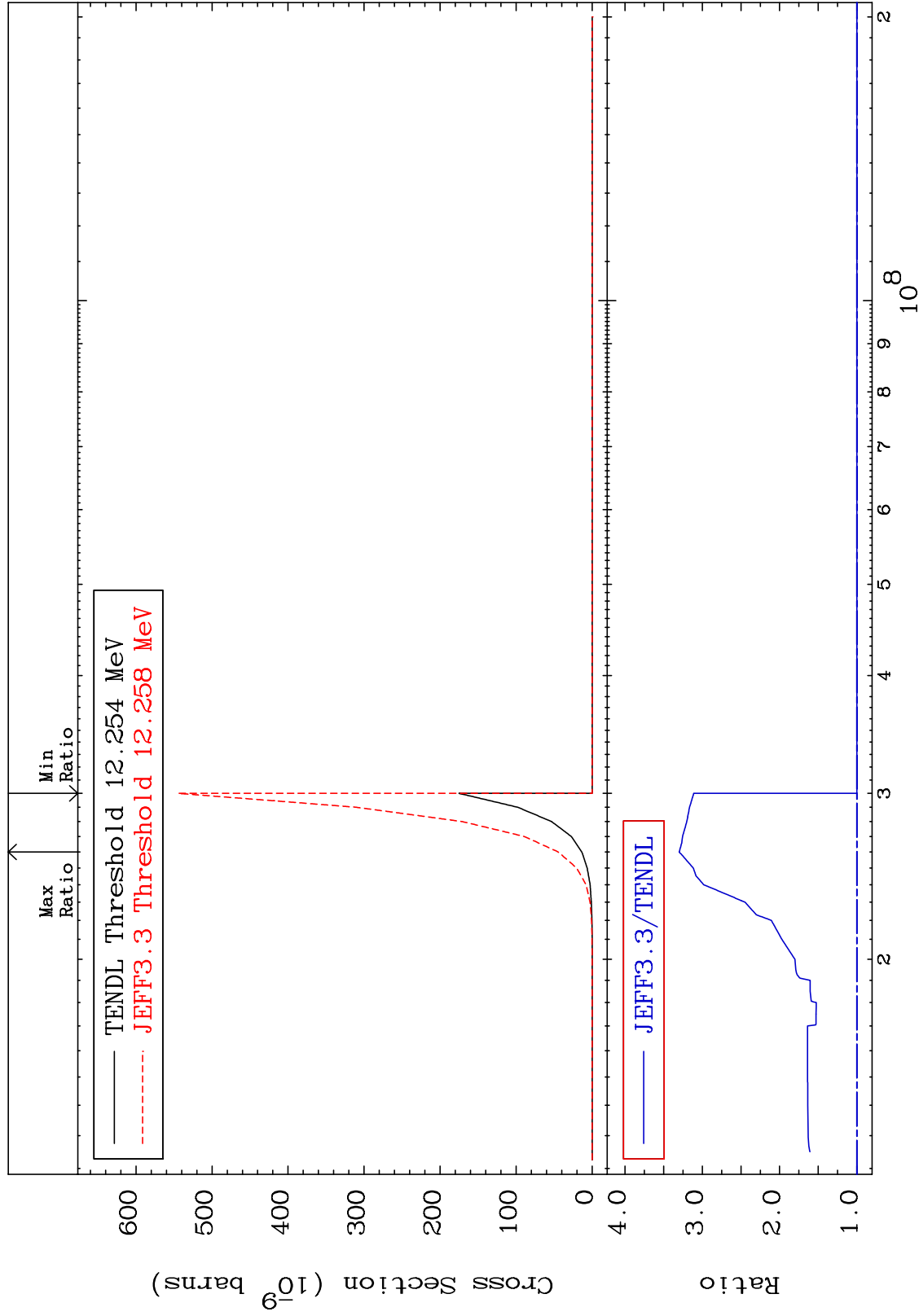
(n,p) d

58-Ce-140

Cross Section

0.000

To 229.9 %



MAT 5837

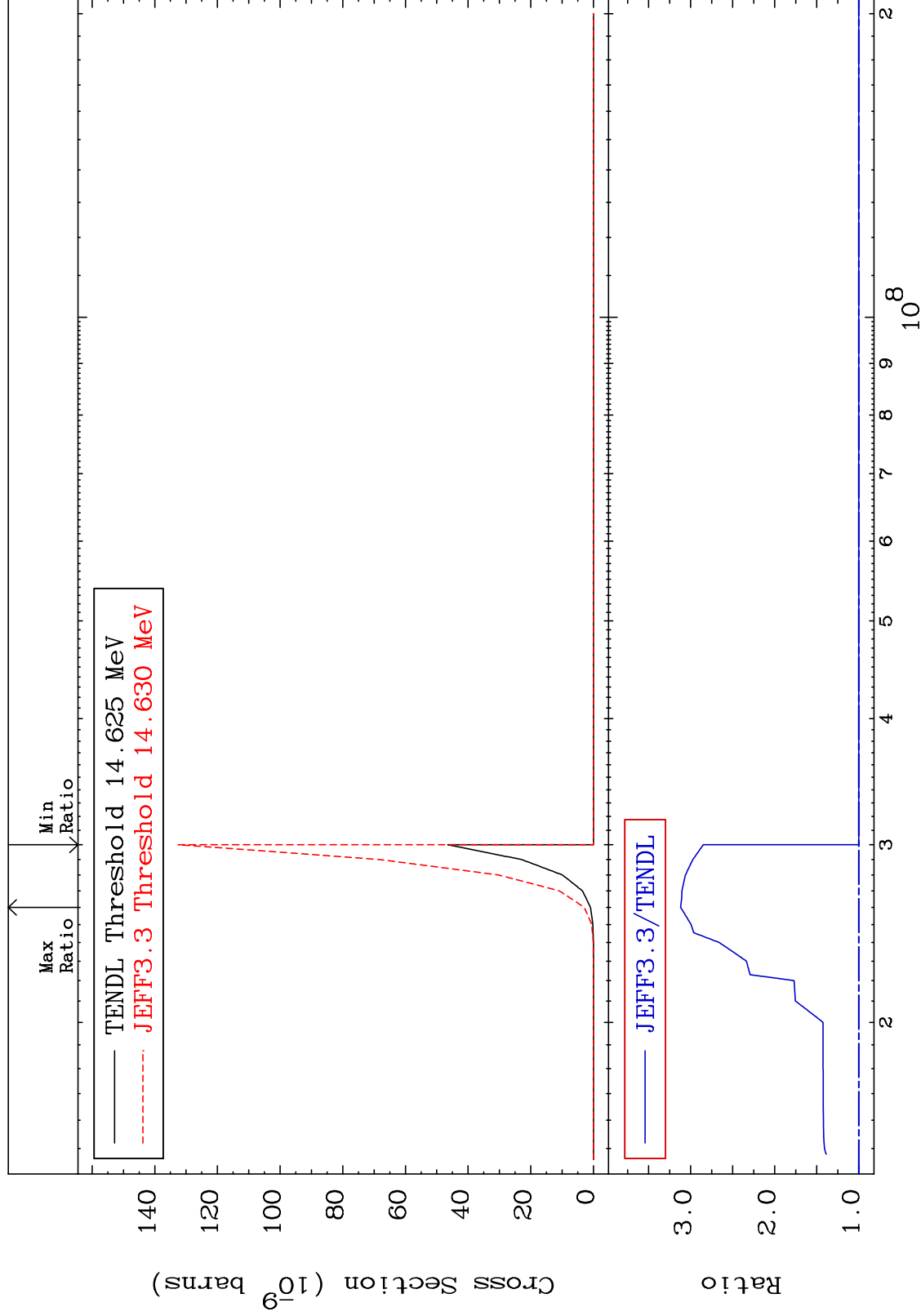
(n,p) t

58-Ce-140

Cross Section

0.000

To 211.9 %



62

Incident Energy (eV)

58-Ce-140

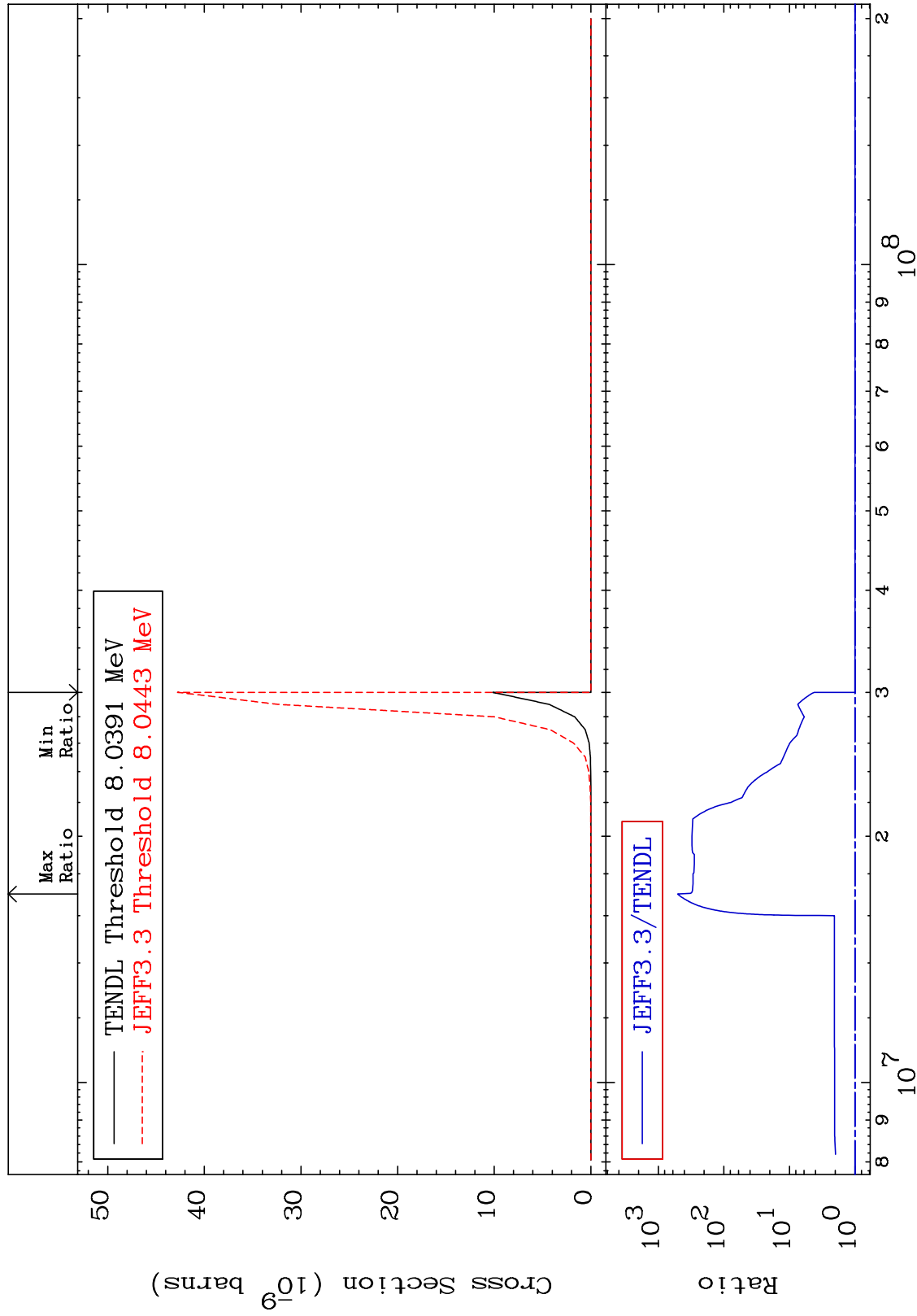
MAT 5837

(n,d) α

58-Ce-140

Cross Section

0.000 To 9999. %



63

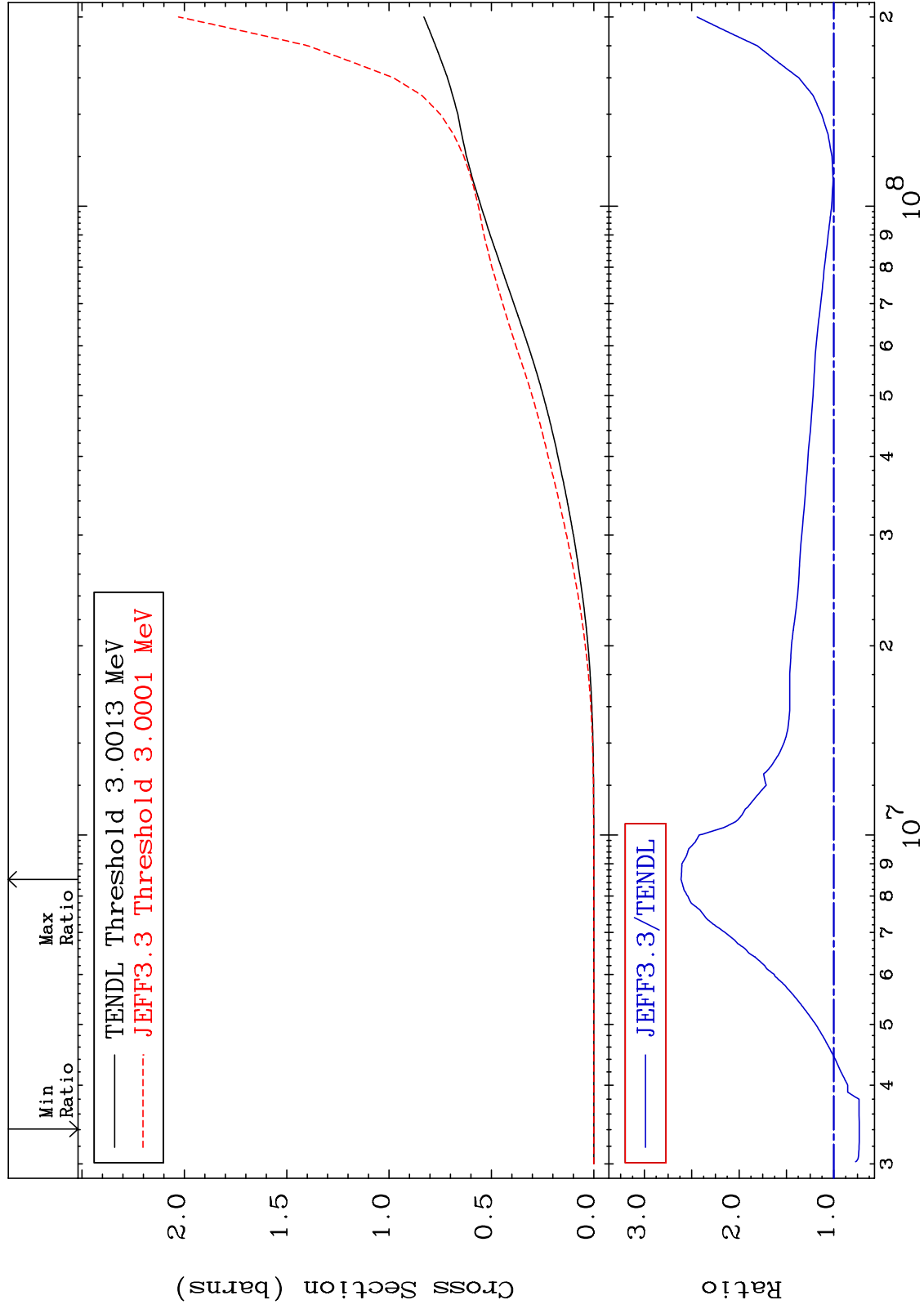
Incident Energy (eV)

58-Ce-140

MAT 5837

Hydrogen Production
Cross Section

58-Ce-140
-26.91 To 161.3 %



64

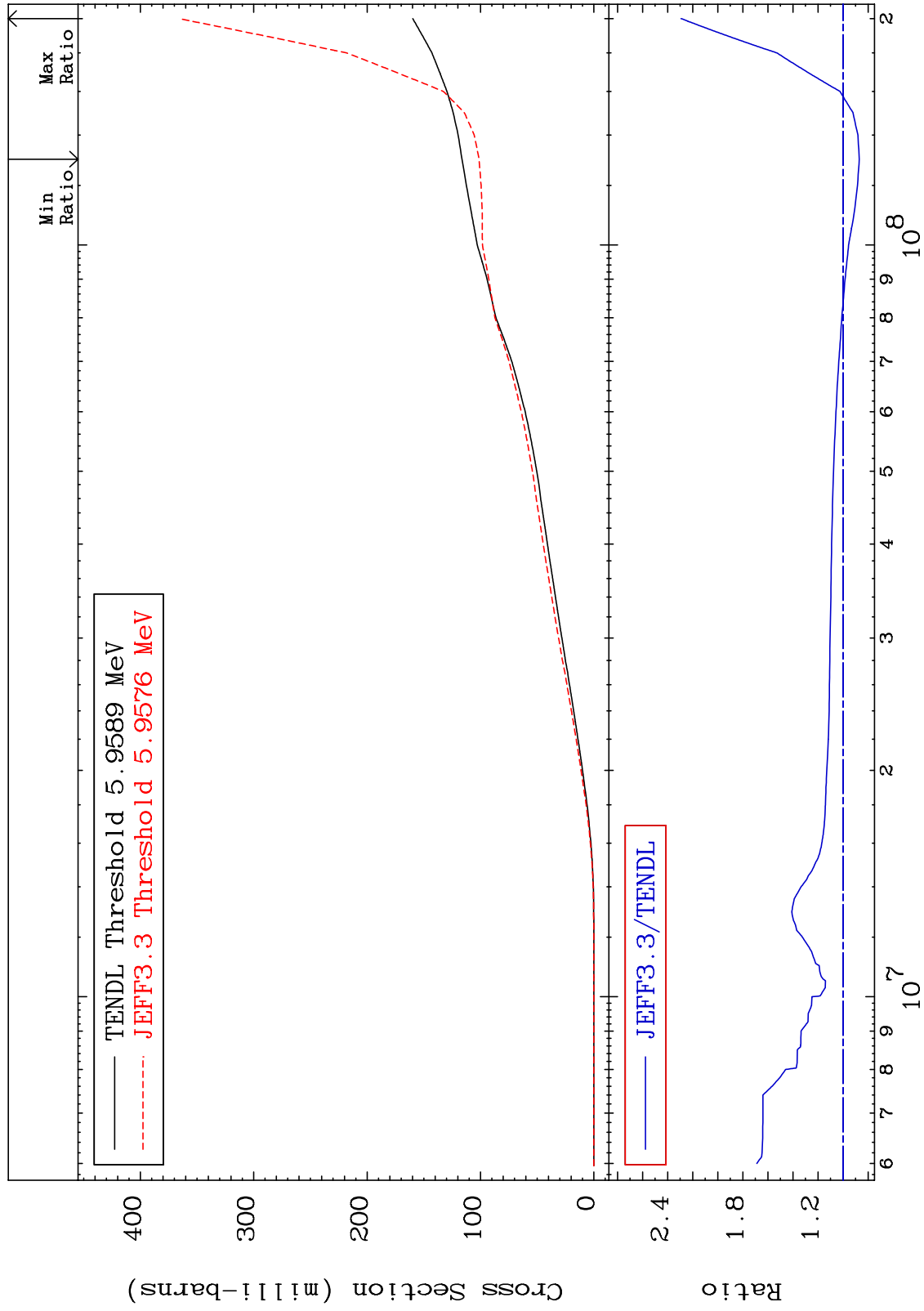
58-Ce-140

Incident Energy (eV)

MAT 5837

Deuterium Production
Cross Section

58-Ce-140
-12.98 To 129.3 %



65

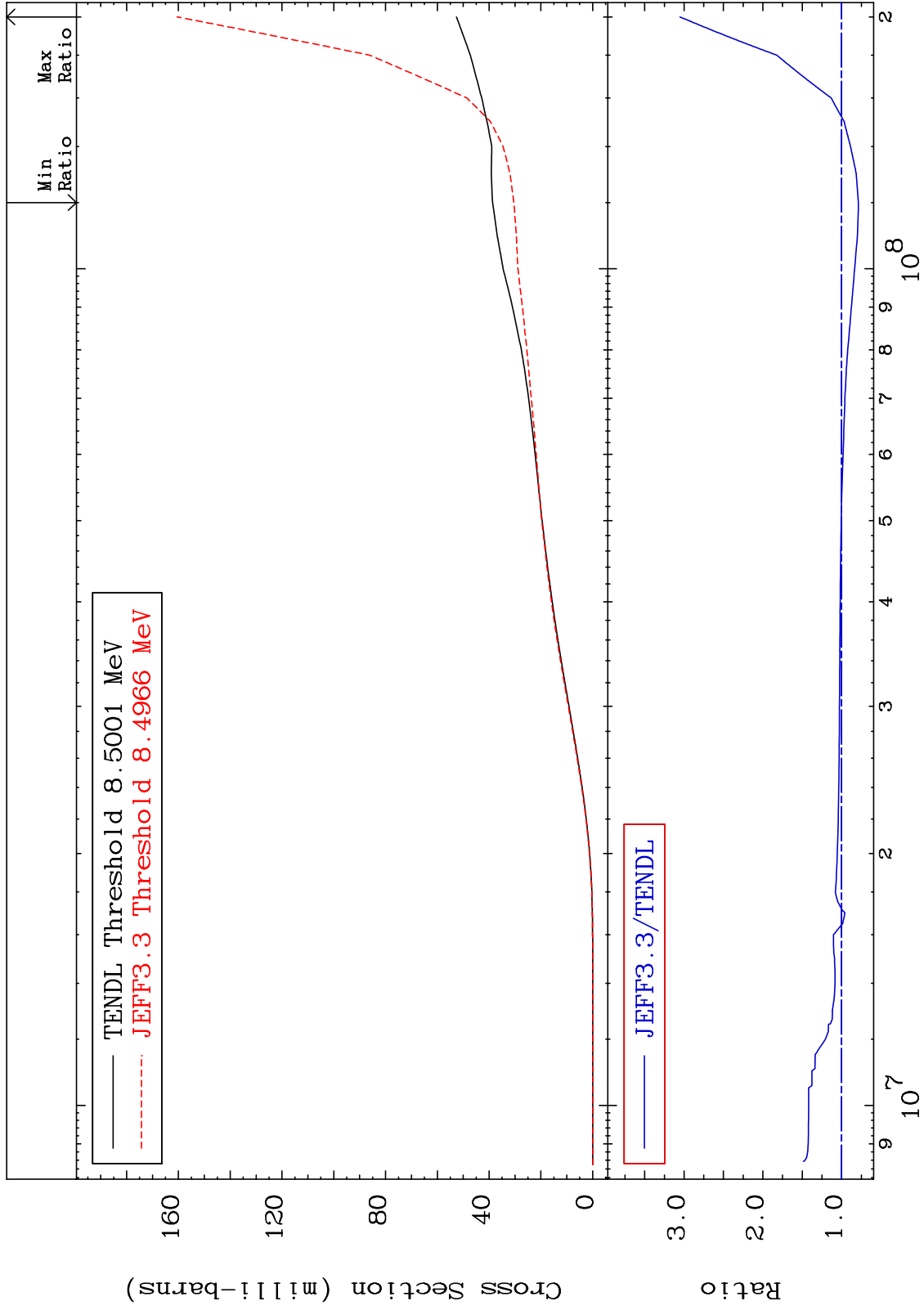
Incident Energy (eV)

58-Ce-140

MAT 5837

Tritium Production
Cross Section

58-Ce-140
-21.28 To 205.1 %



66

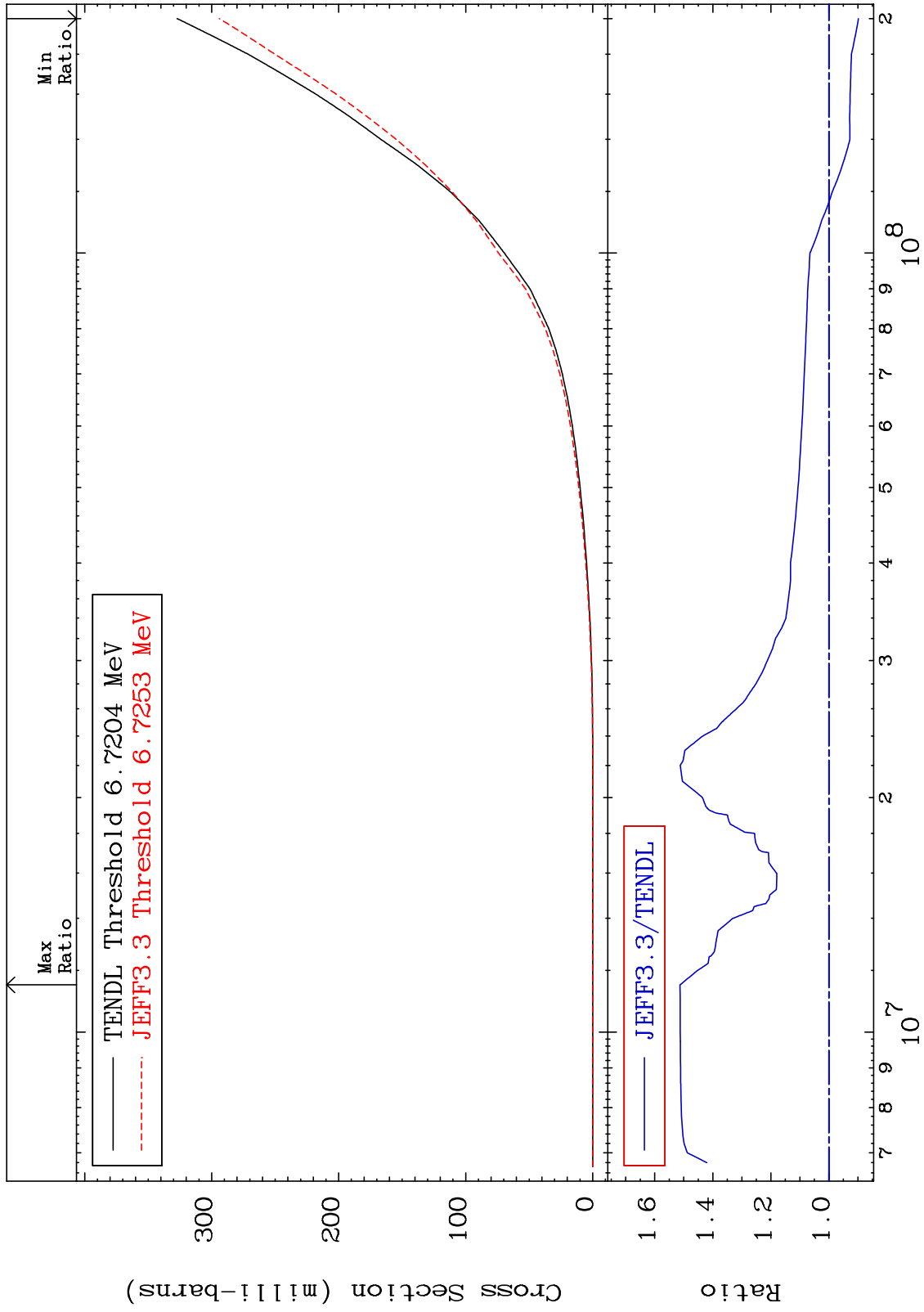
Incident Energy (eV)

58-Ce-140

MAT 5837

He-3 Production
Cross Section

58-Ce-140
-10.19 To 51.29 %



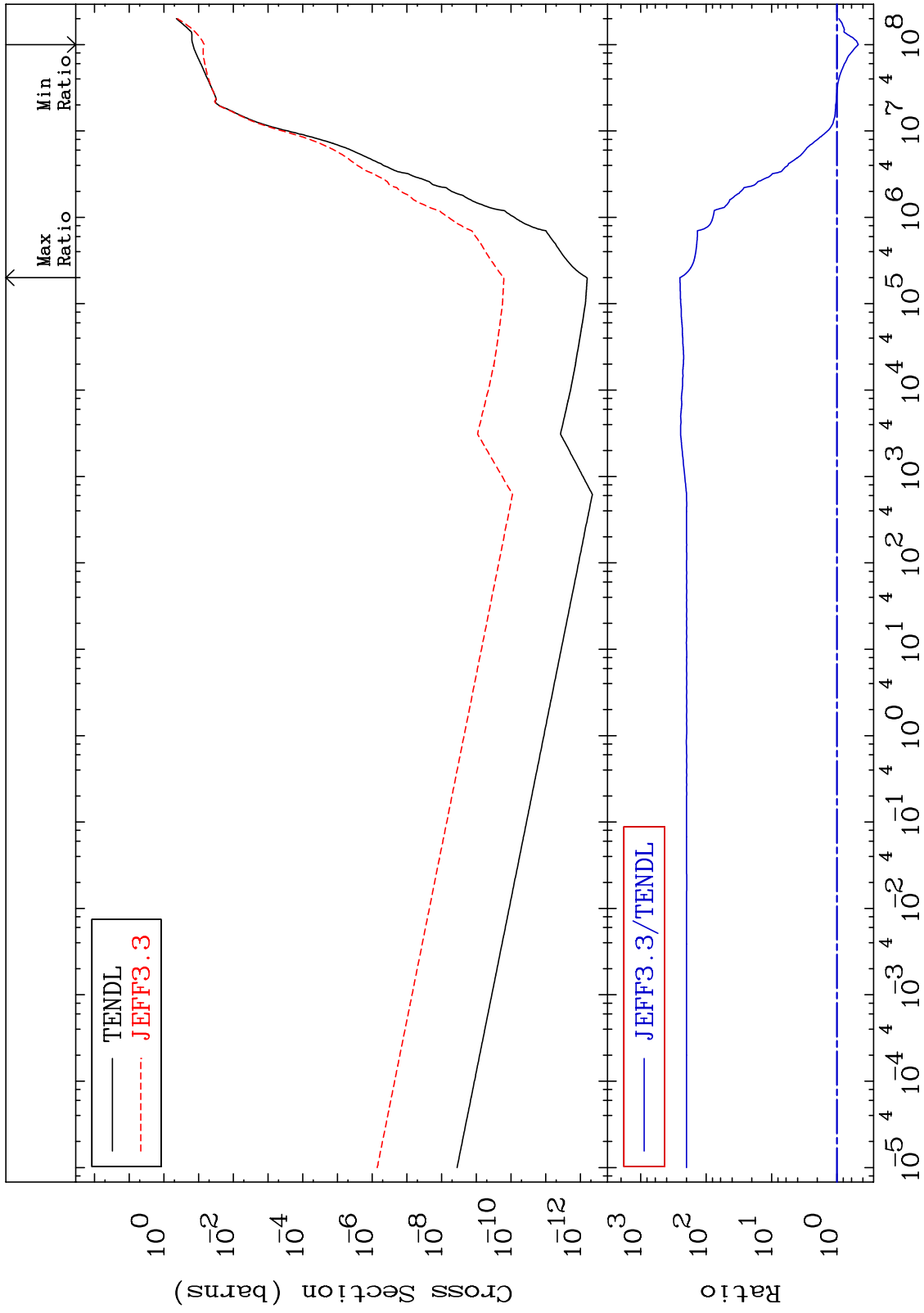
67

58-Ce-140

MAT 5837

He-4 Production
Cross Section

58-Ce-140
-52.89 To 9999. %



68

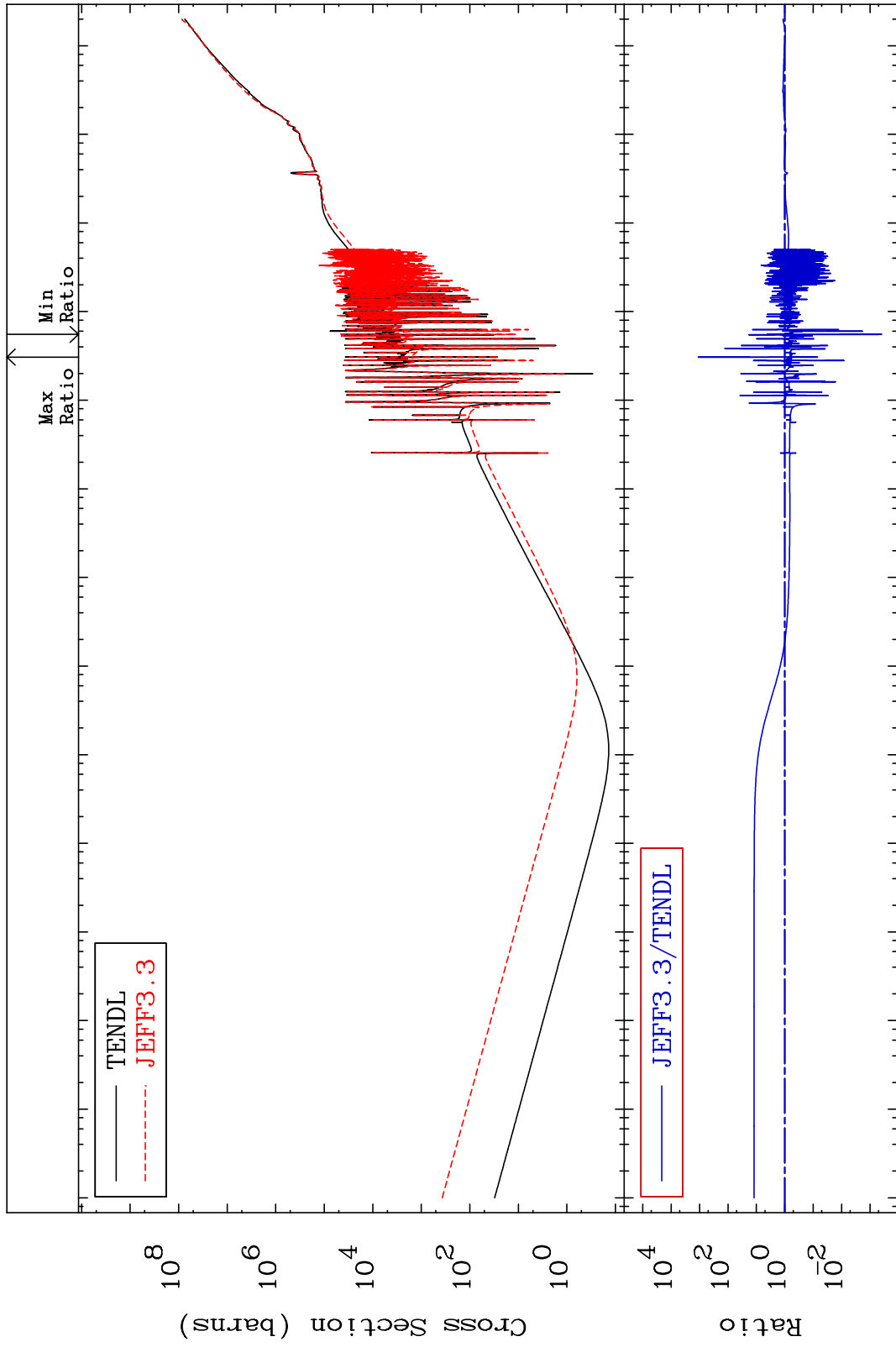
Incident Energy (eV)

58-Ce-140

MAT 5837

Kerma total (eV-barns)
Cross Section

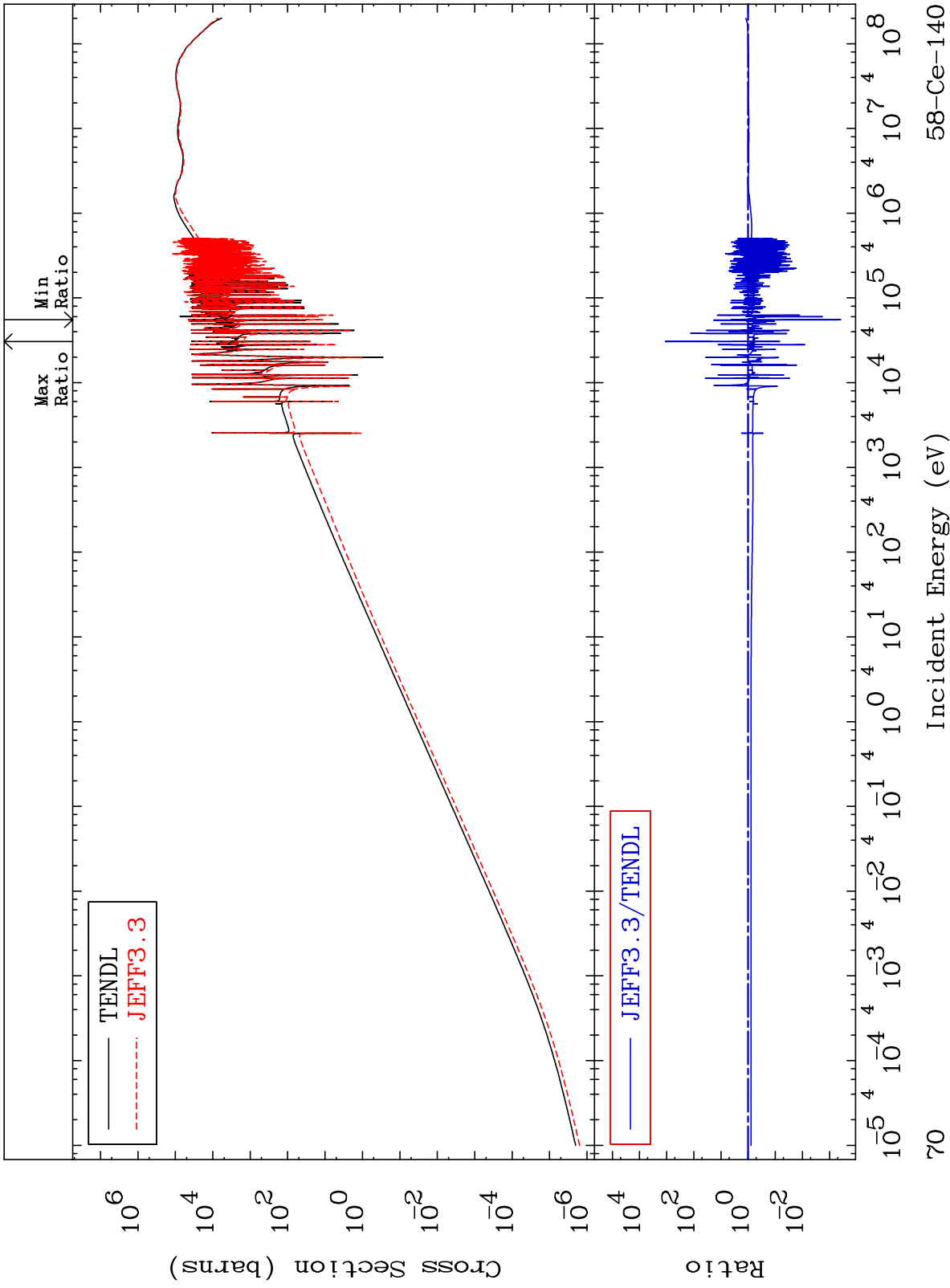
58-Ce-140
-99.96 To 9999. %



MAT 5837

Kerma elastic
Cross Section

58-Ce-140
-99.96 To 9999. %



70

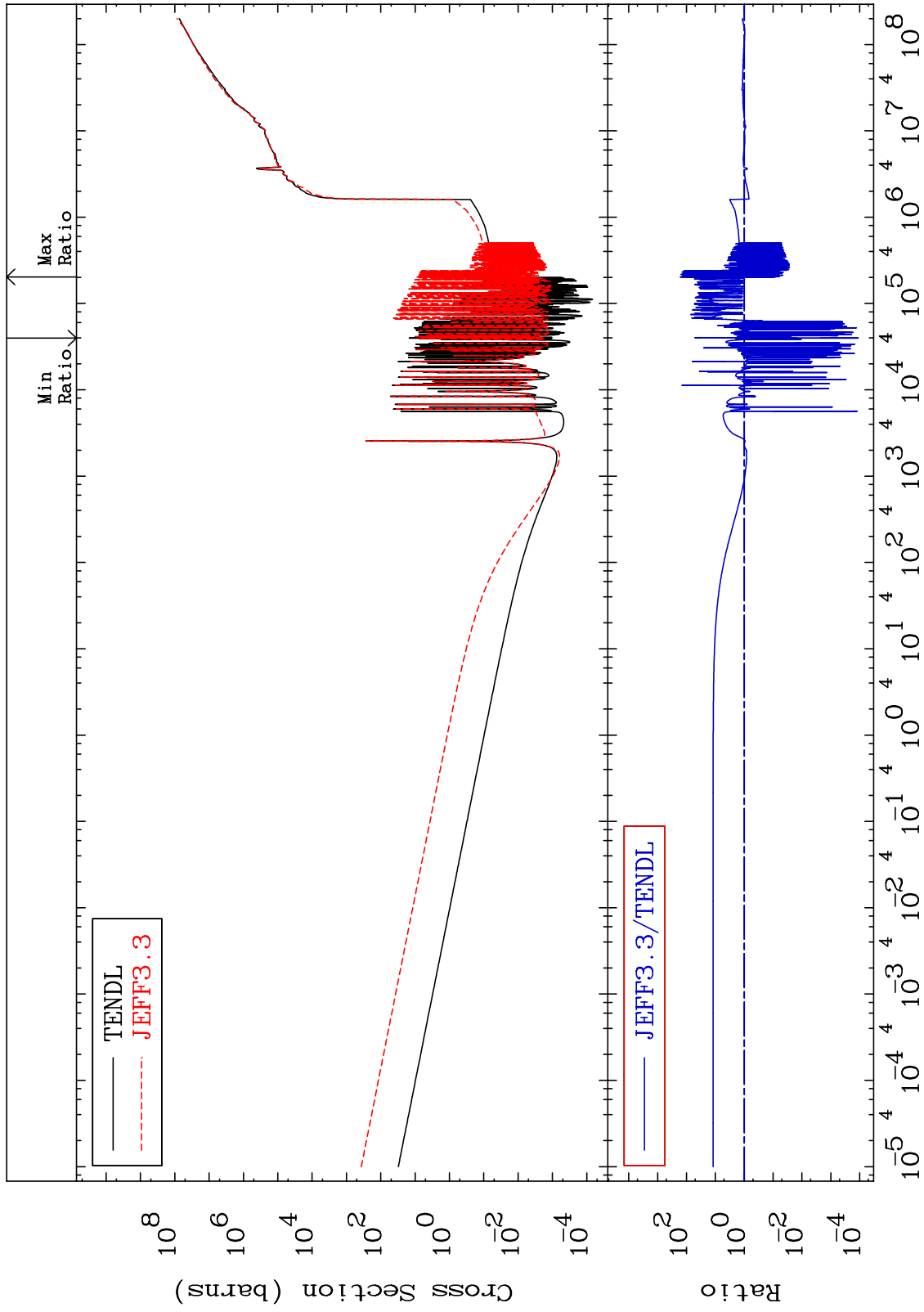
Incident Energy (eV)

58-Ce-140

MAT 5837

Kerma non-elastic (all but mt2)
Cross Section

58-Ce-140
-99.99 To 9999. %



71

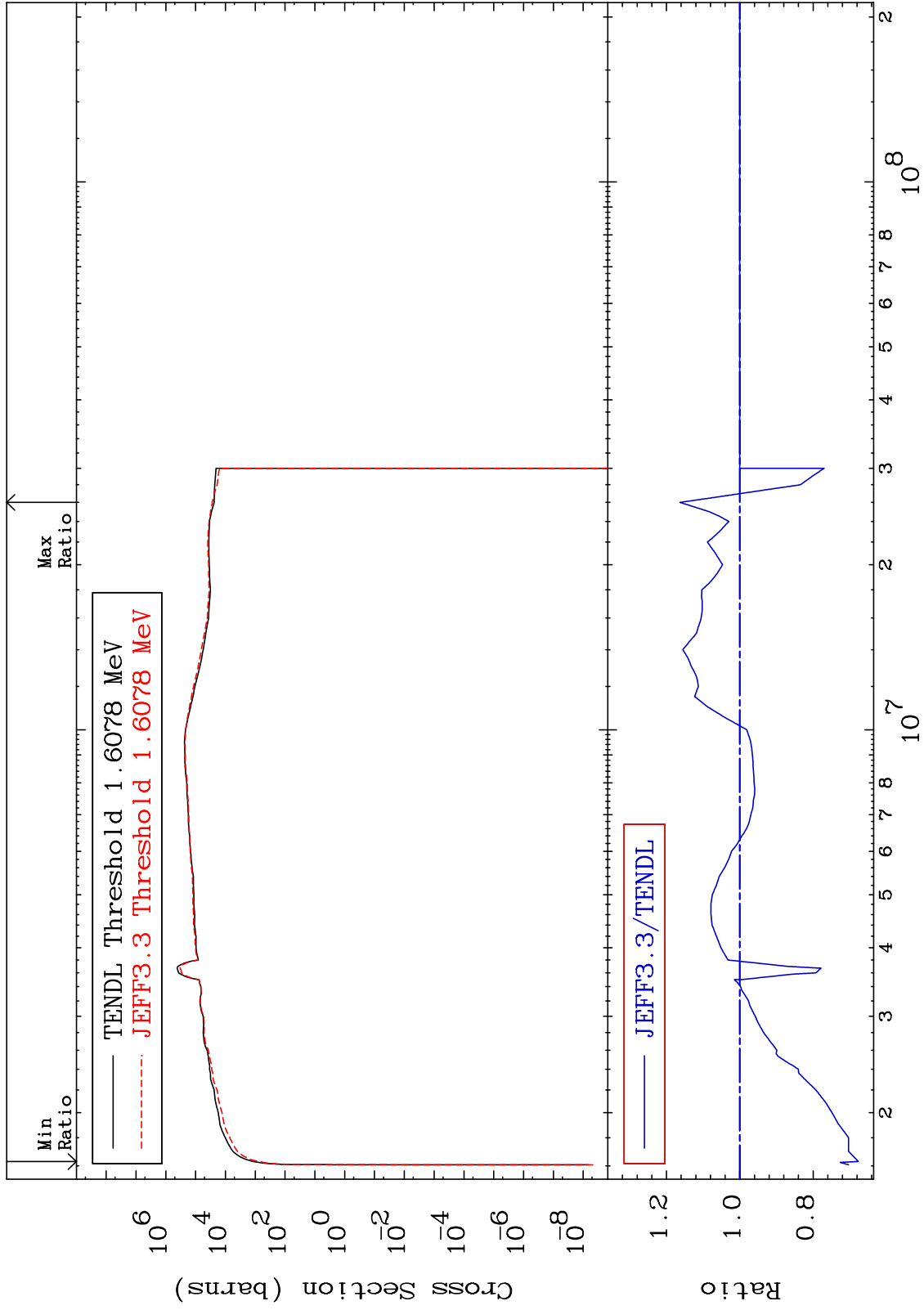
Incident Energy (eV)

58-Ce-140

MAT 5837

Kerma inelastic (mt51-91)
Cross Section

58-Ce-140
-32.36 To 16.30 %



72

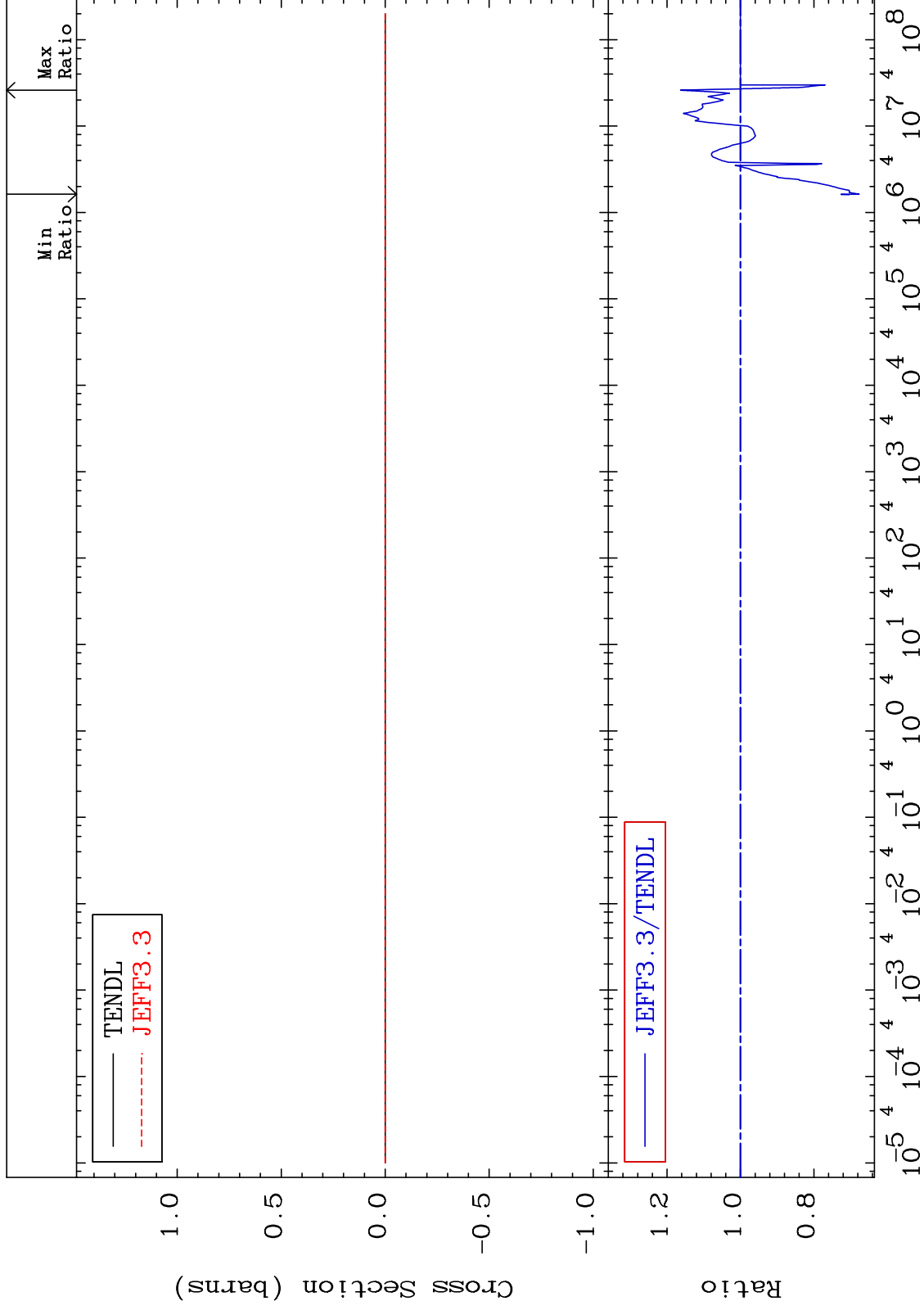
Incident Energy (eV)

58-Ce-140

MAT 5837

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

58-Ce-140
-32.36 To 16.30 %



73

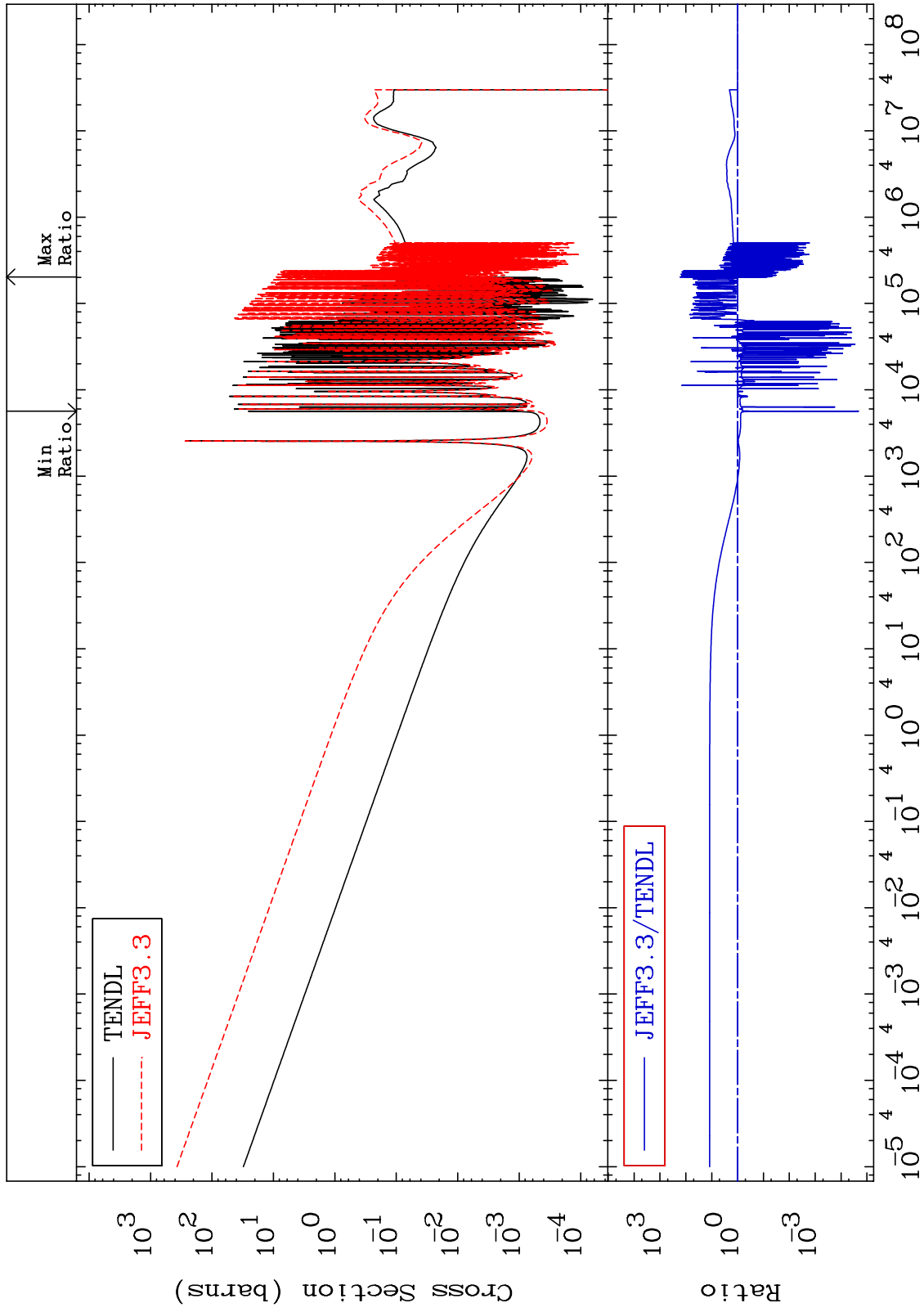
Incident Energy (eV)

58-Ce-140

MAT 5837

Kerma capture (mt102)
Cross Section

58-Ce-140
-100.0 To 9999. %



74

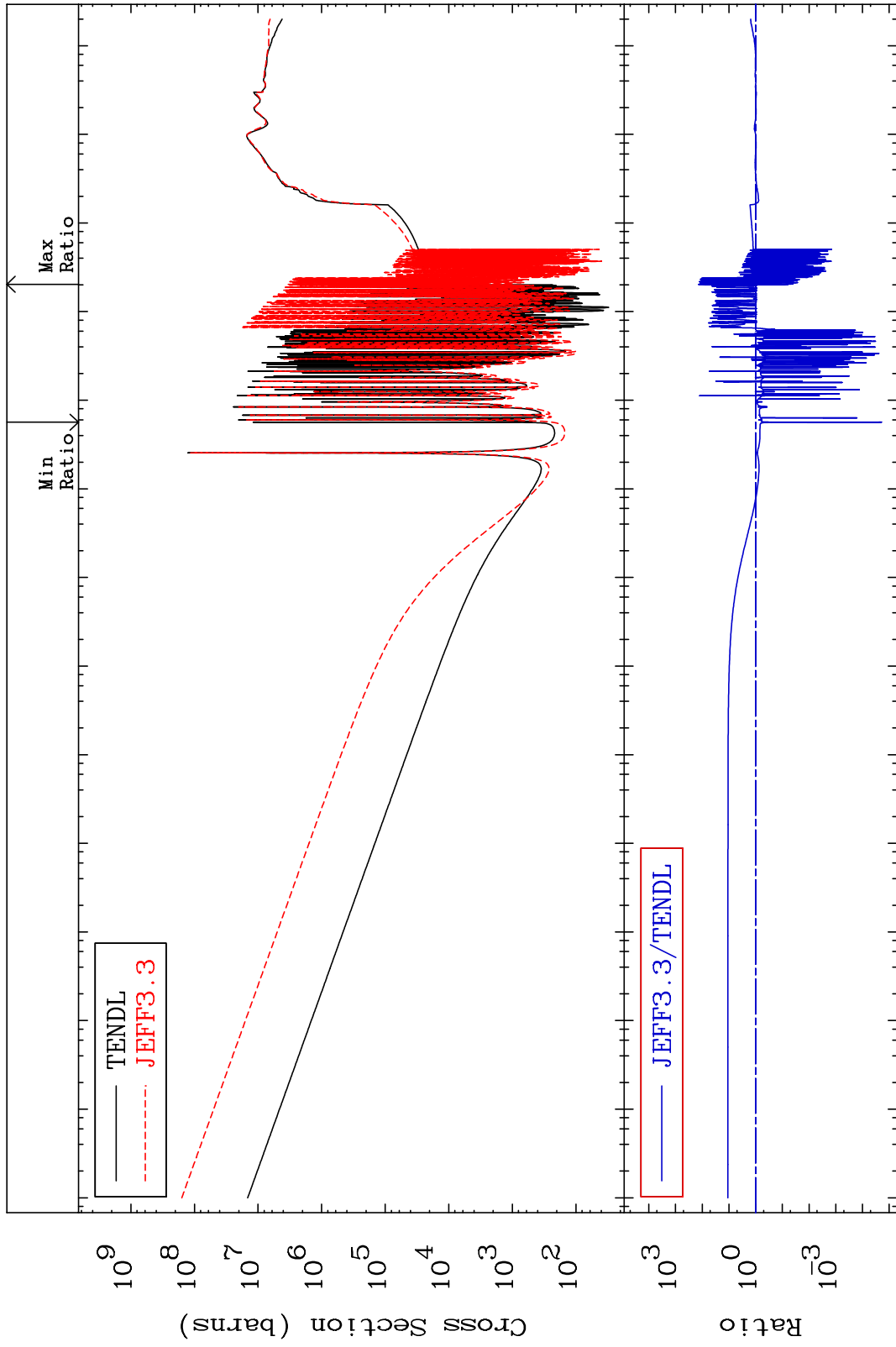
Incident Energy (eV)

58-Ce-140

MAT 5837

Total photon (eV-barns)
Cross Section

58-Ce-140
-100.0 To 9999. %



75

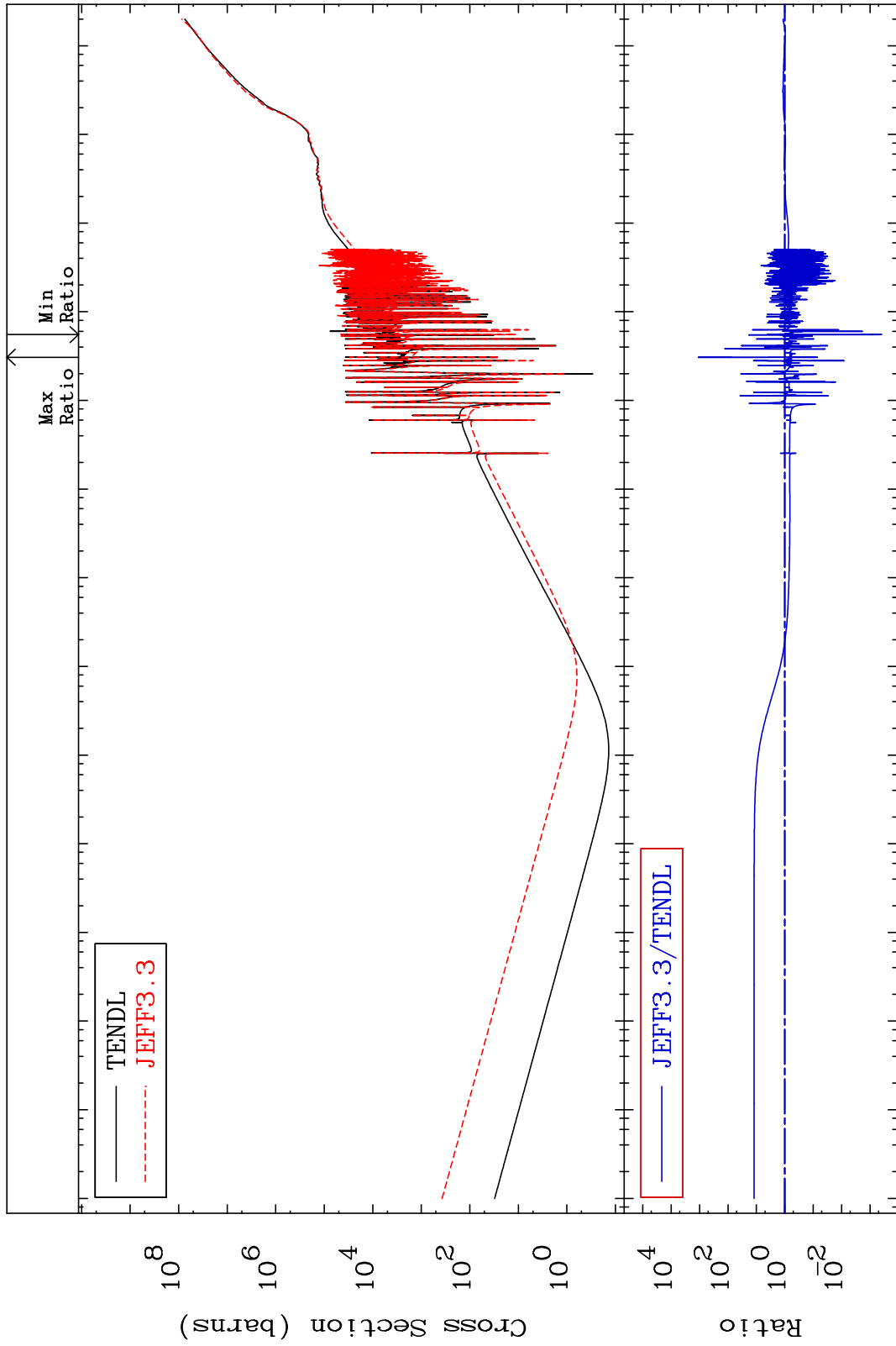
Incident Energy (eV)

58-Ce-140

MAT 5837

Total kinematic kerma (high limit)
Cross Section

58-Ce-140
-99.96 To 9999. %



76

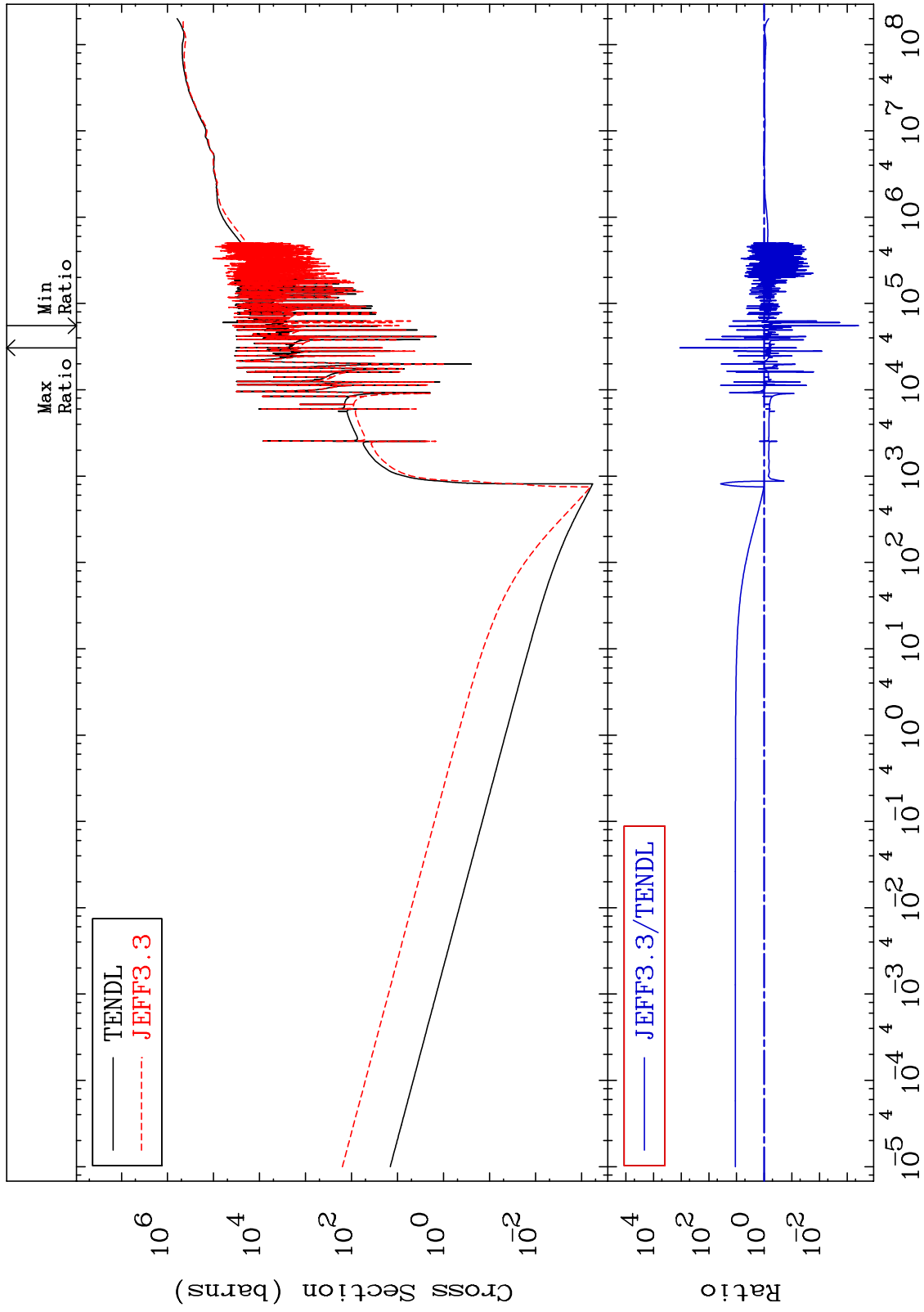
Incident Energy (eV)

58-Ce-140

MAT 5837

Dpa total (eV-barns)
Cross Section

58-Ce-140
-99.96 To 9999. %



77

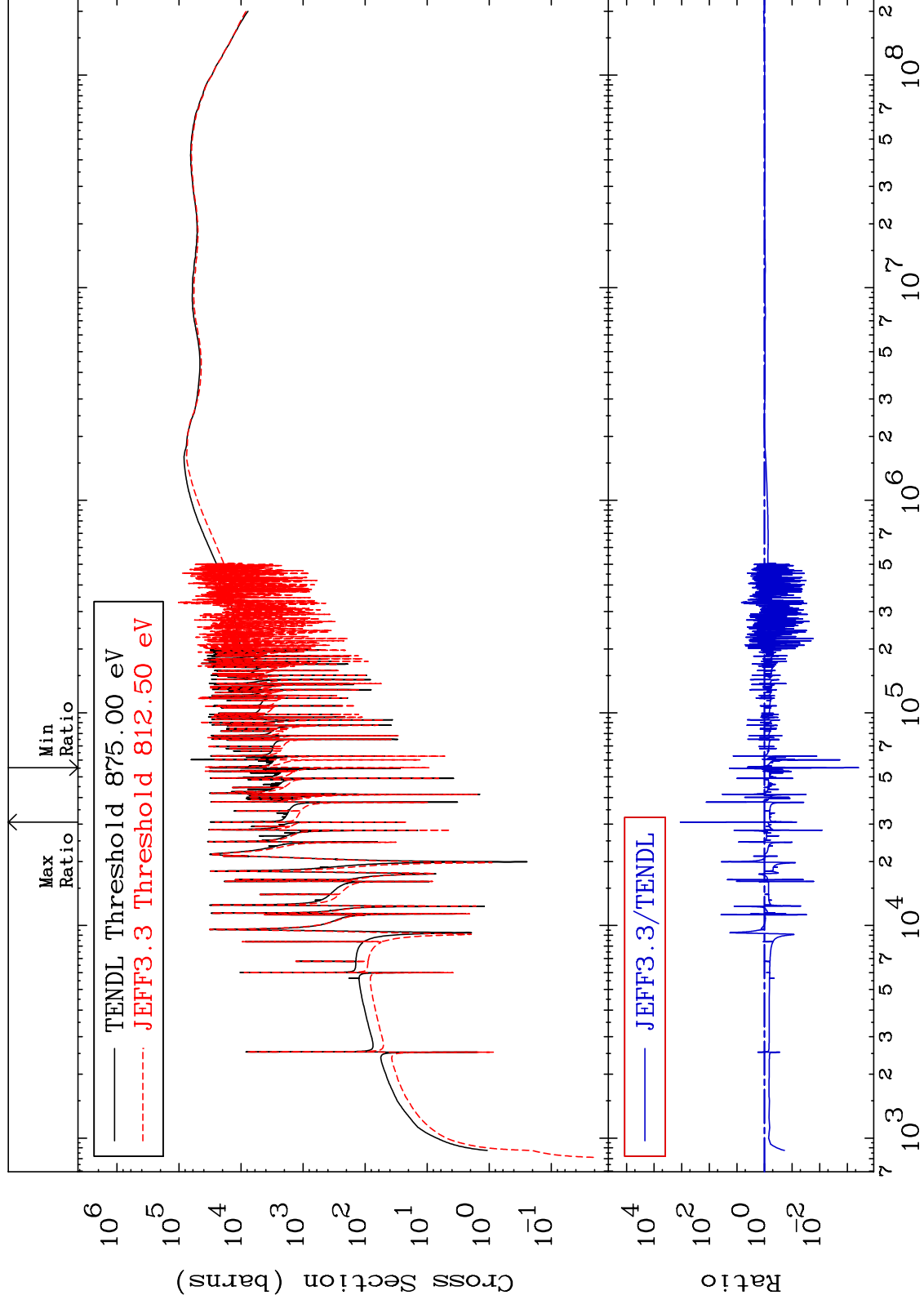
Incident Energy (eV)

58-Ce-140

MAT 5837

Dpa elastic (mt2)
Cross Section

58-Ce-140
-99.96 To 9999. %



78

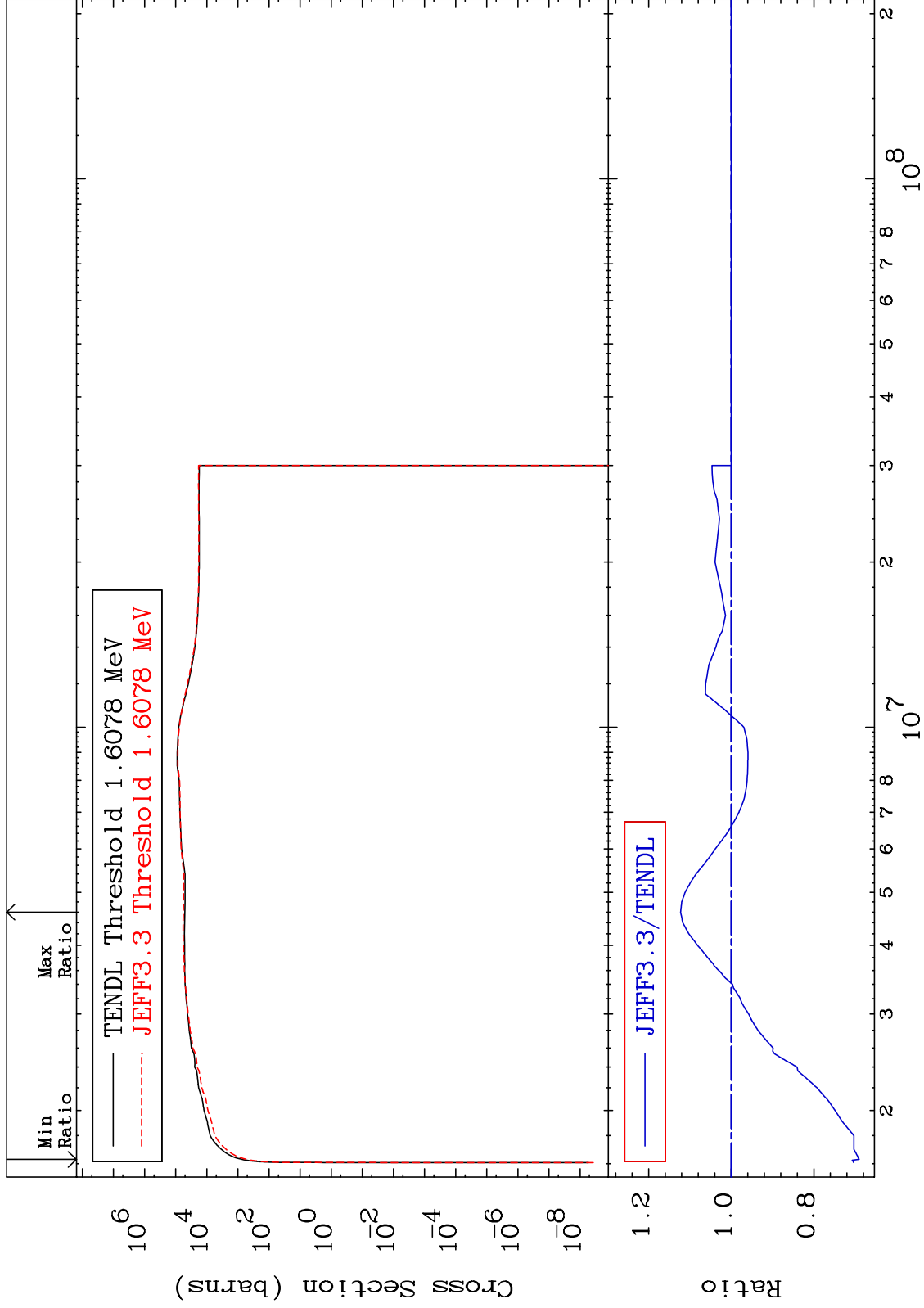
Incident Energy (eV)

58-Ce-140

MAT 5837

Dpa inelastic (mt51-91)
Cross Section

58-Ce-140
-30.96 To 12.27 %



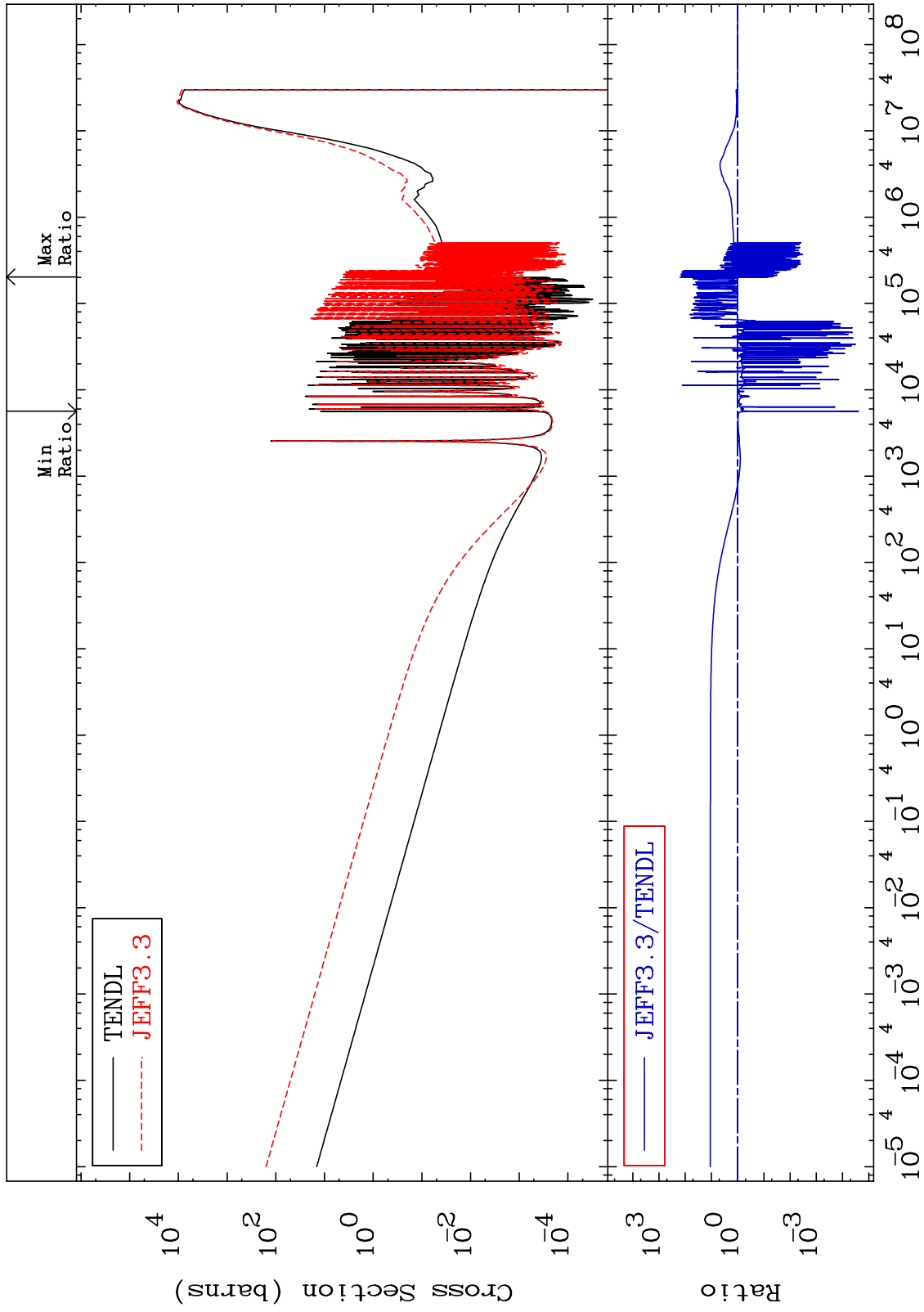
79

58-Ce-140

MAT 5837

Dpa disappearance (mt102 -120)
Cross Section

58-Ce-140
-100.0 To 9999. %

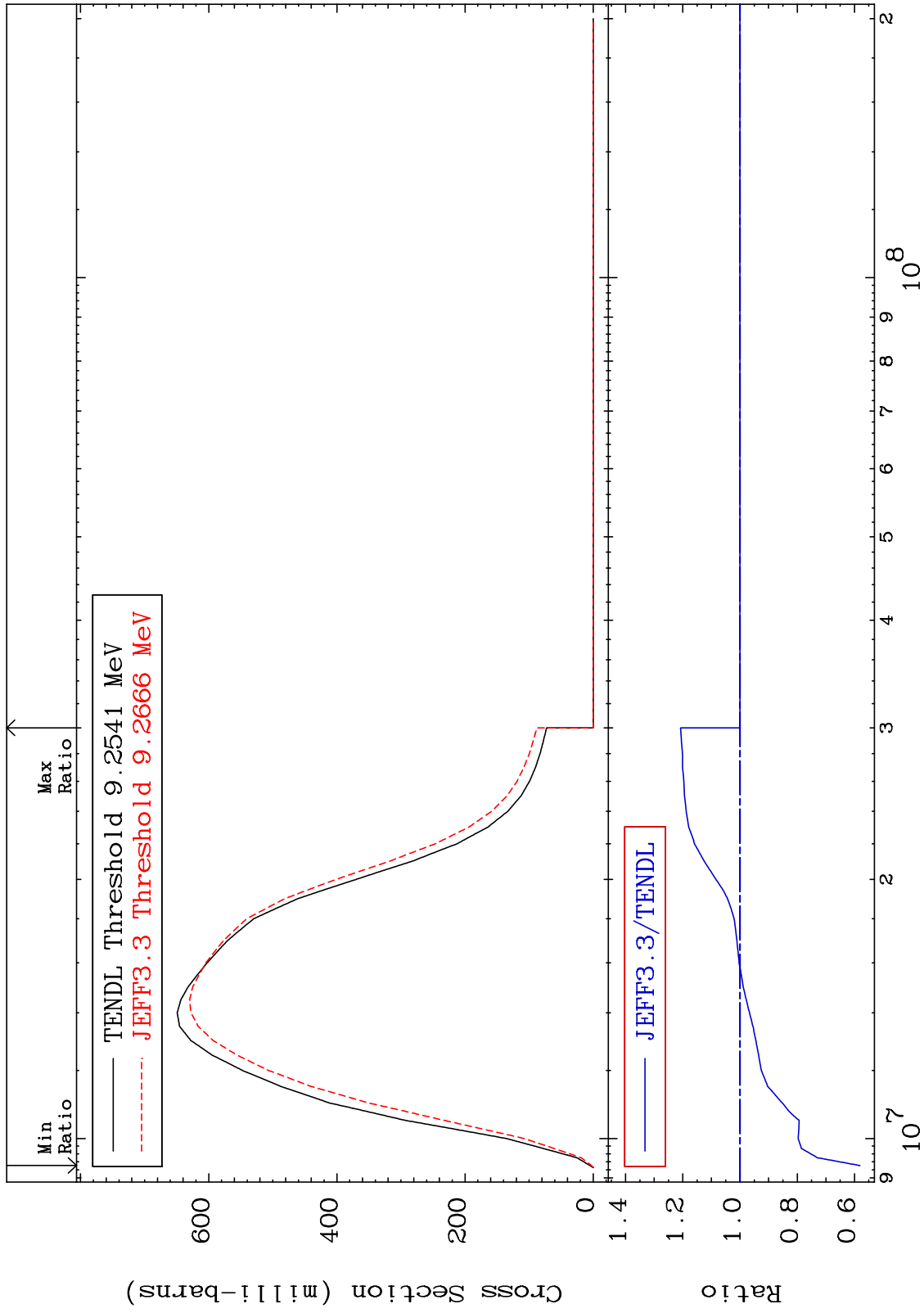


MAT 5837

(n,2n):58-Ce-139g

58-Ce-140

Radionuclide Production Cross Section -41.65 To 20.77 %

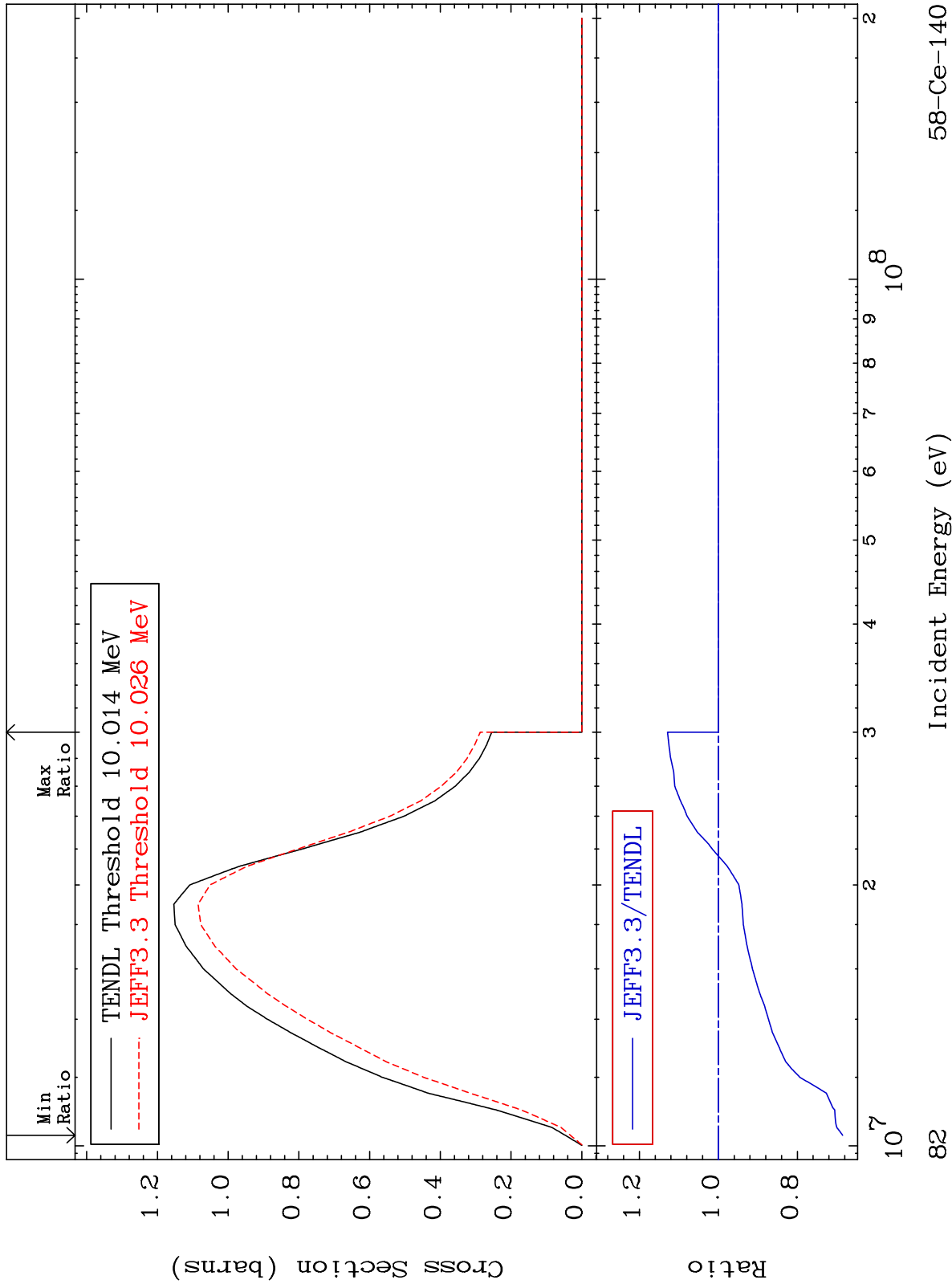


MAT 5837

(n,2n):58-Ce-139m2

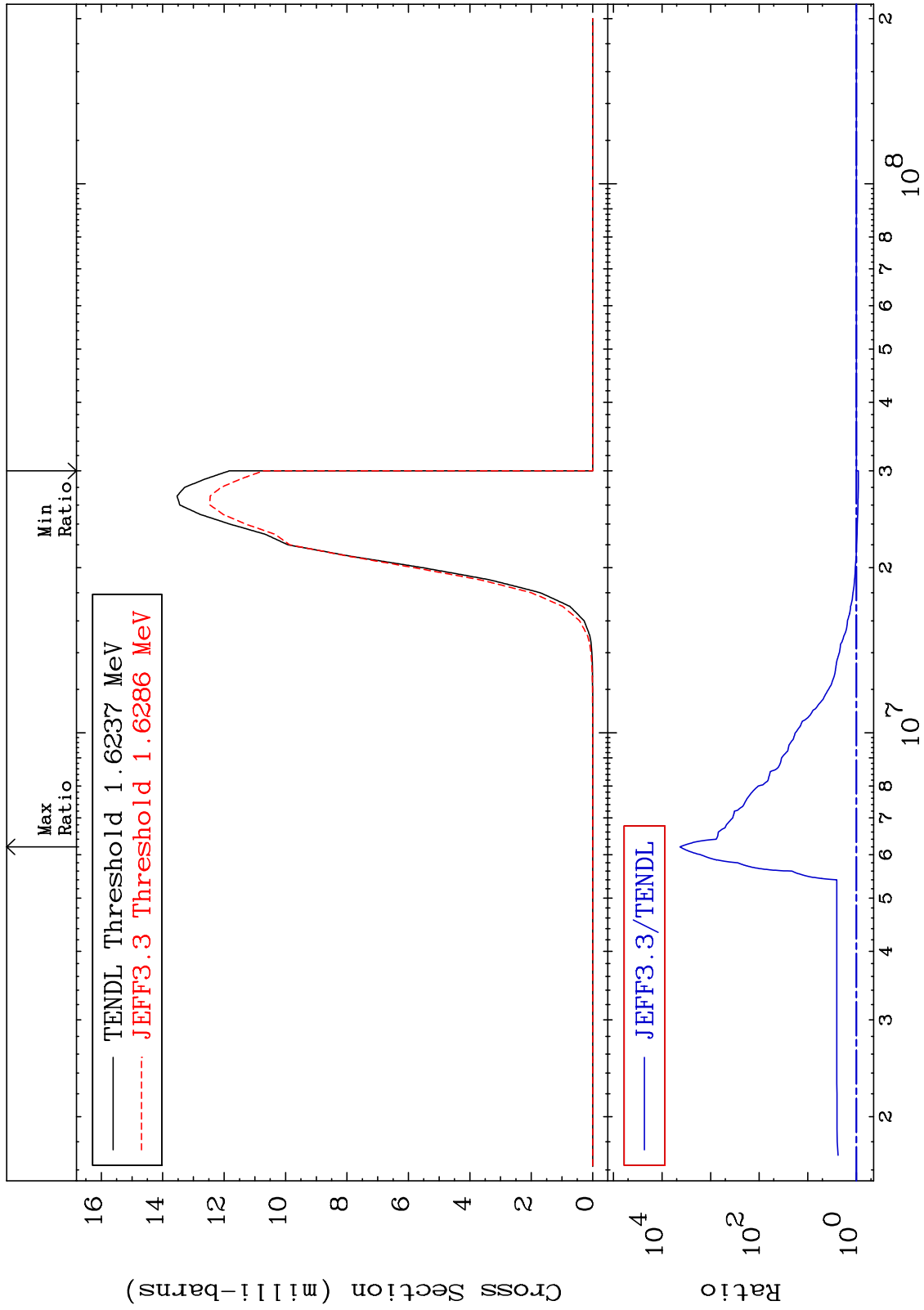
58-Ce-140

Radionuclide Production Cross Section -31.47 To 12.87 %



MAT 5837

(n, n') α :56-Ba-136g 58-Ce-140
Radionuclide Production Cross Section -9.396 To 9999. %

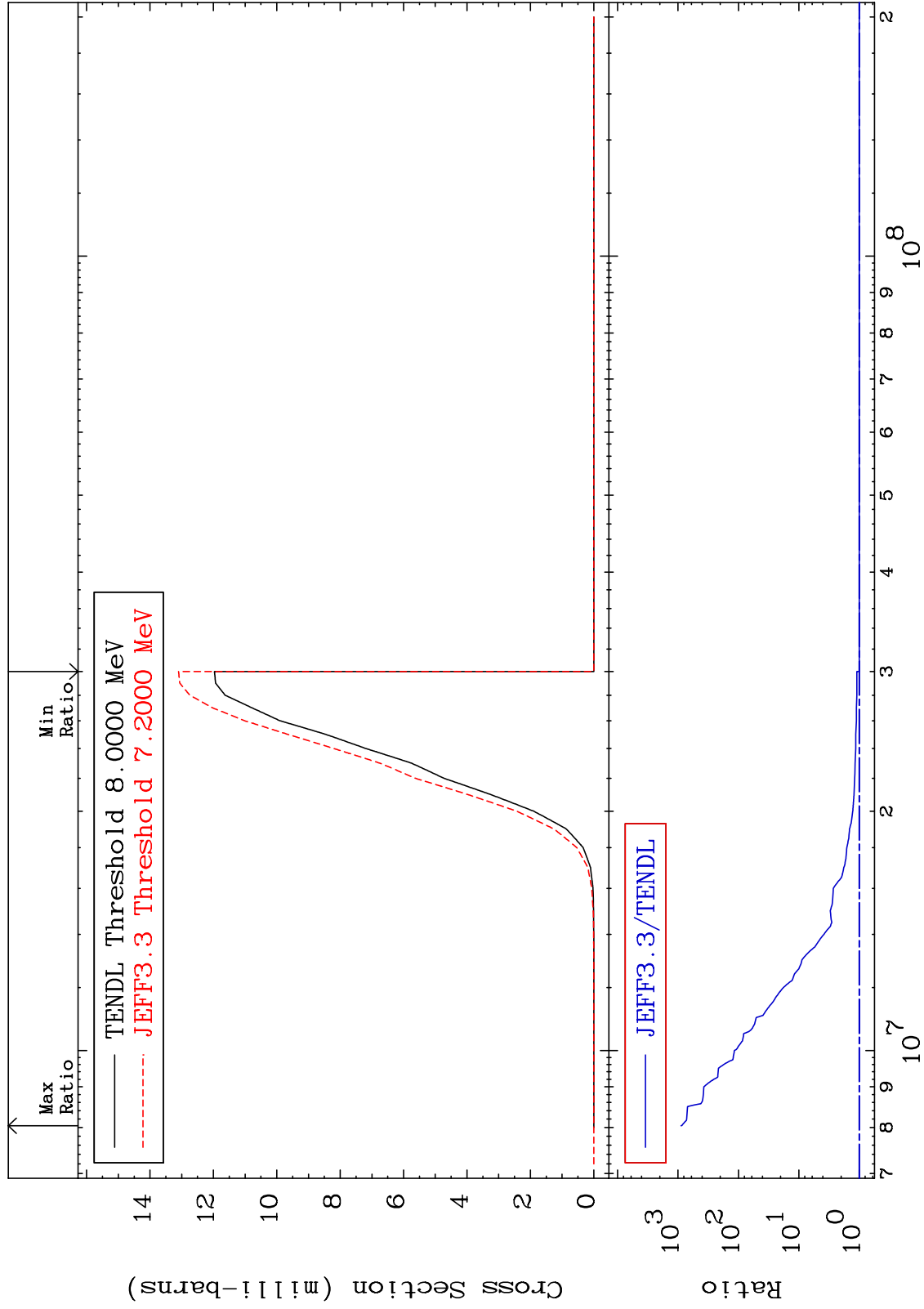


MAT 5837

(n, n') α :56-Ba-136m5

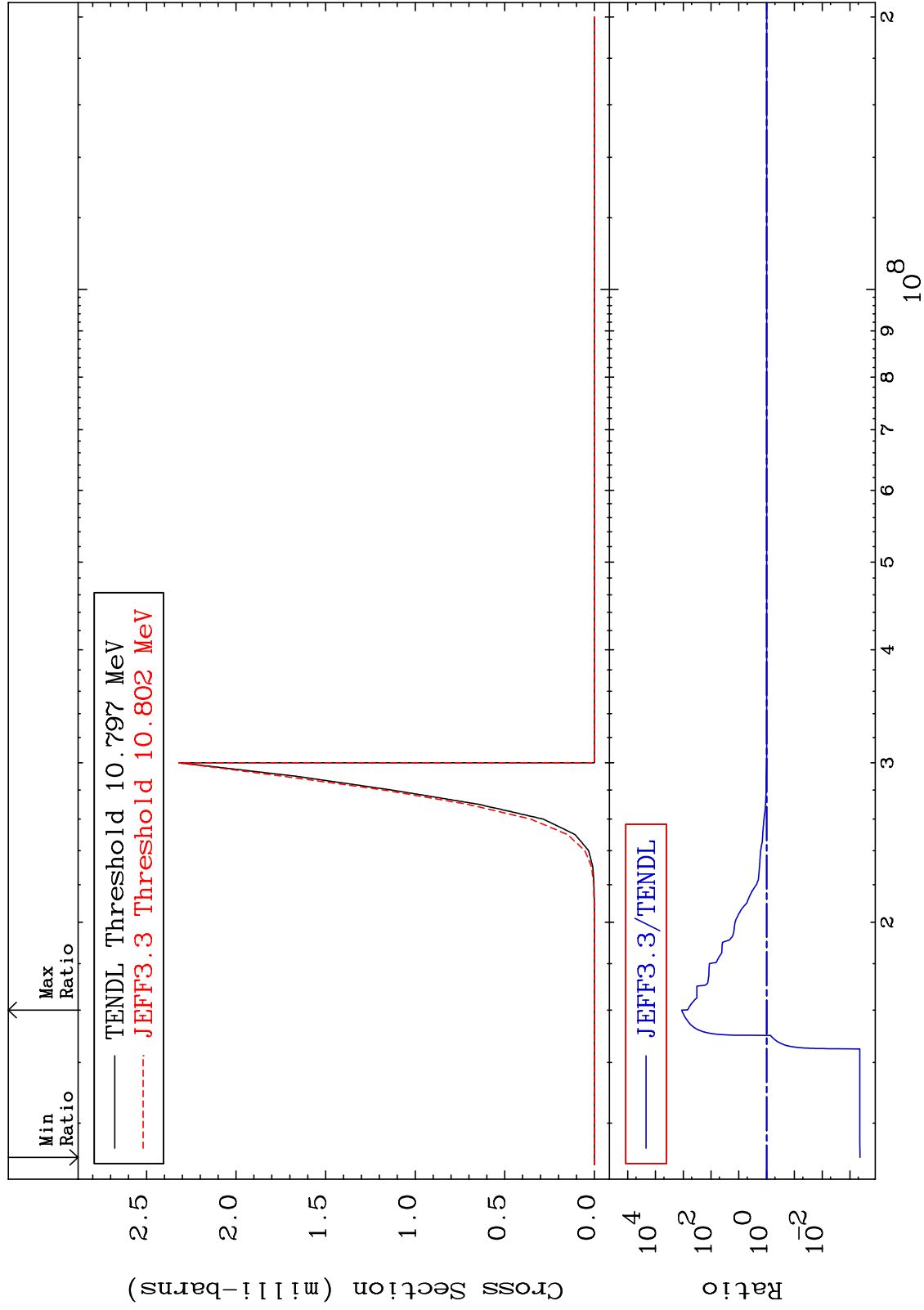
58-Ce-140

Radionuclide Production Cross Section 0.000 To 9999. %



MAT 5837

(n,2n) α :56-Ba-135g 58-Ce-140
Radionuclide Production Cross Section -99.96 To 9999. %

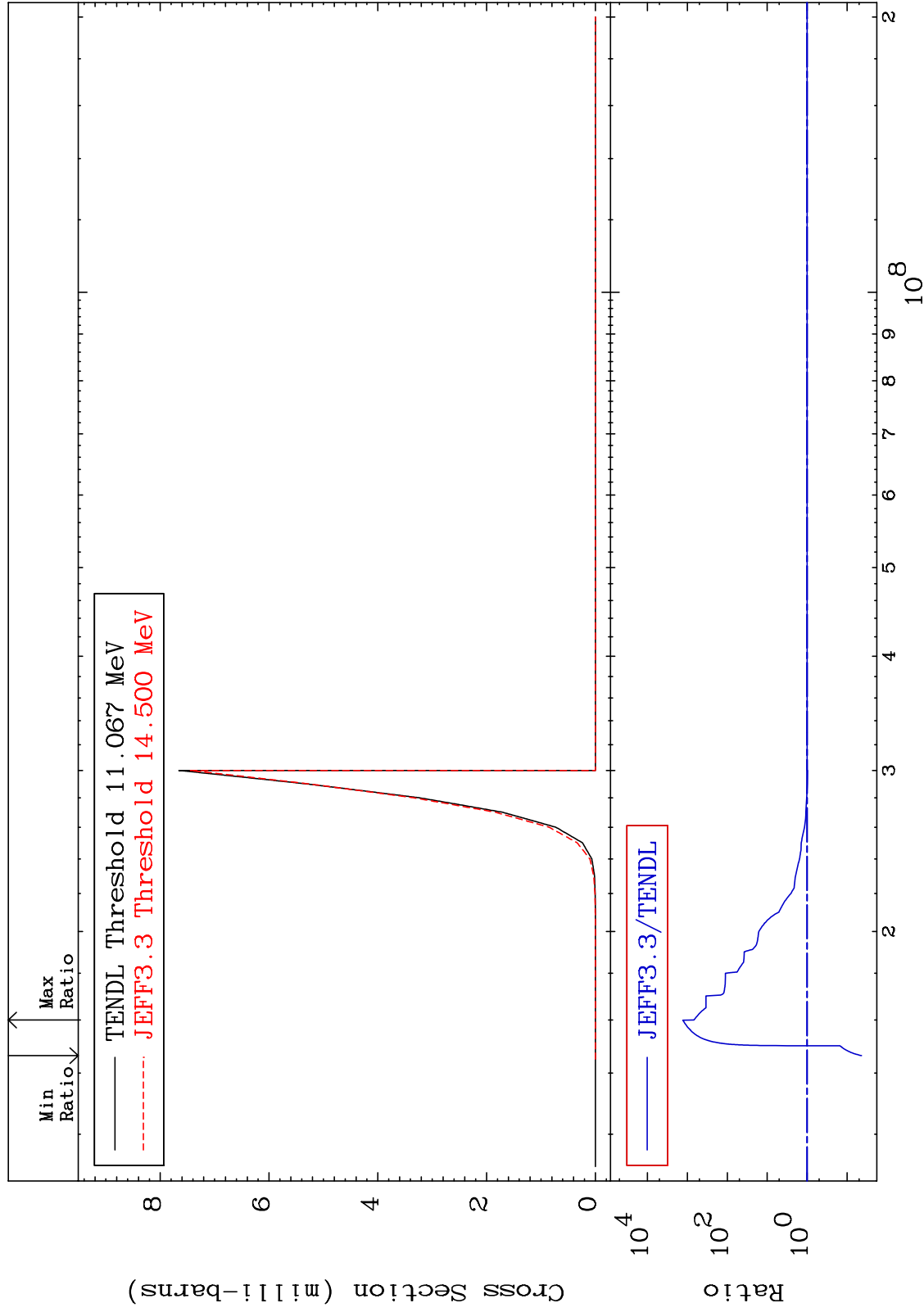


MAT 5837

(n,2n) α :56-Ba-135m2

58-Ce-140

Radionuclide Production Cross Section -95.65 To 9999. %

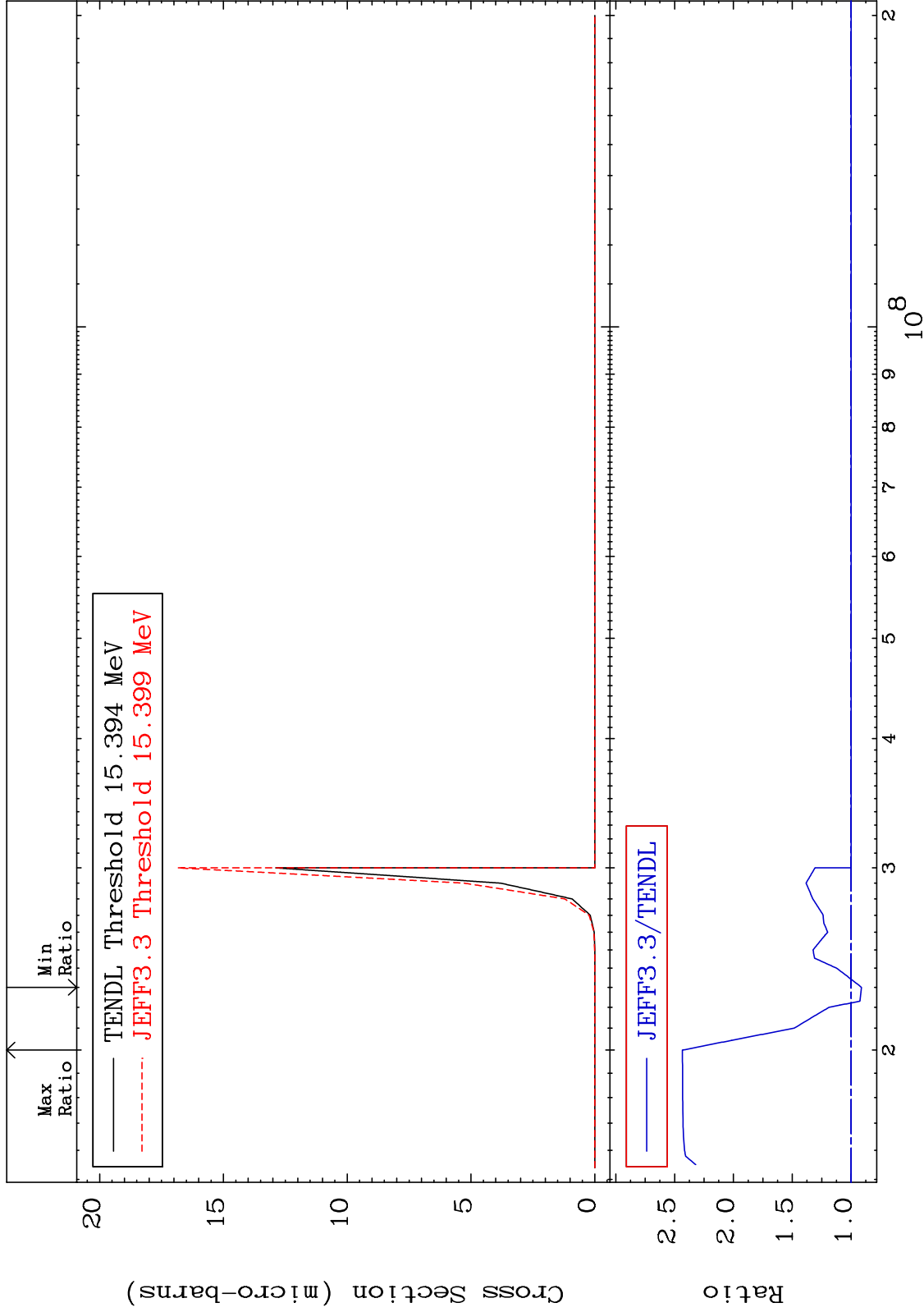


MAT 5837

(n, n') He-3:56-Ba-137g

58-Ce-140

Radionuclide Production Cross Section -8.776 To 143.4 %



87

Incident Energy (eV)

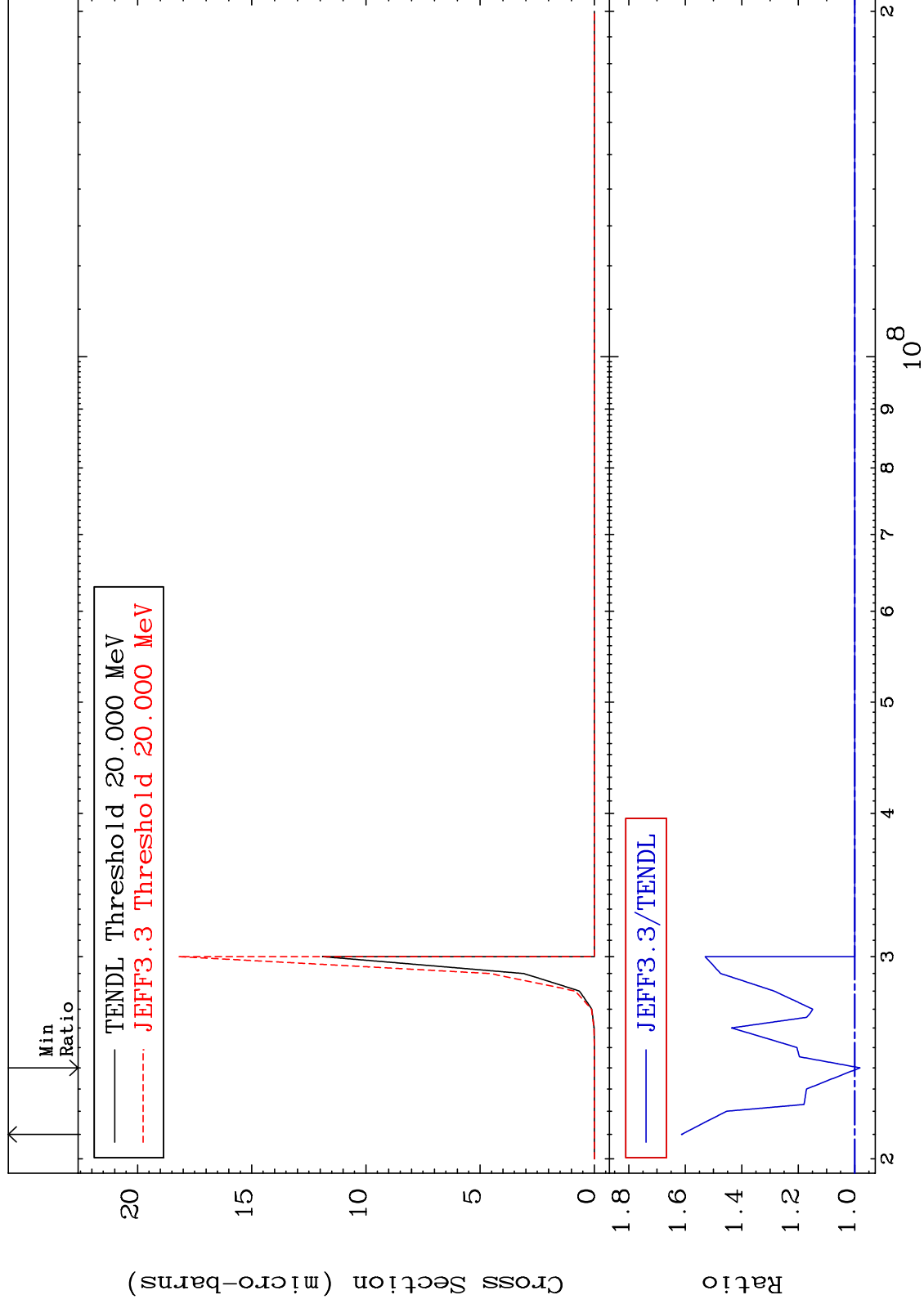
58-Ce-140

MAT 5837

(n, n') He-3:56-Ba-137m2

58-Ce-140

Radionuclide Production Cross Section -1.853 To 61.28 %



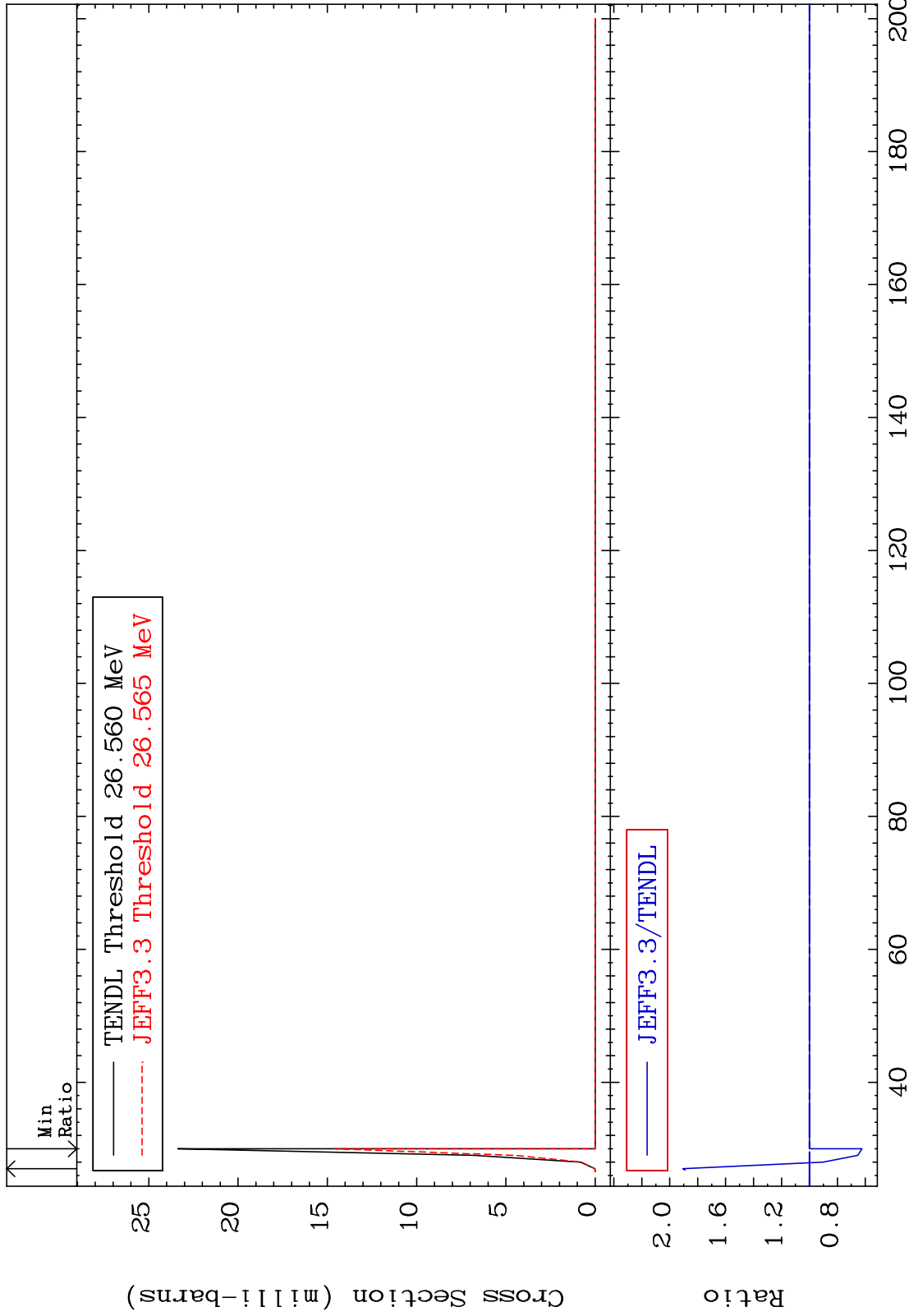
MAT 5837

(n,4n):58-Ce-137g

58-Ce-140

Radionuclide Production Cross Section

-37.66 To 90.61 %



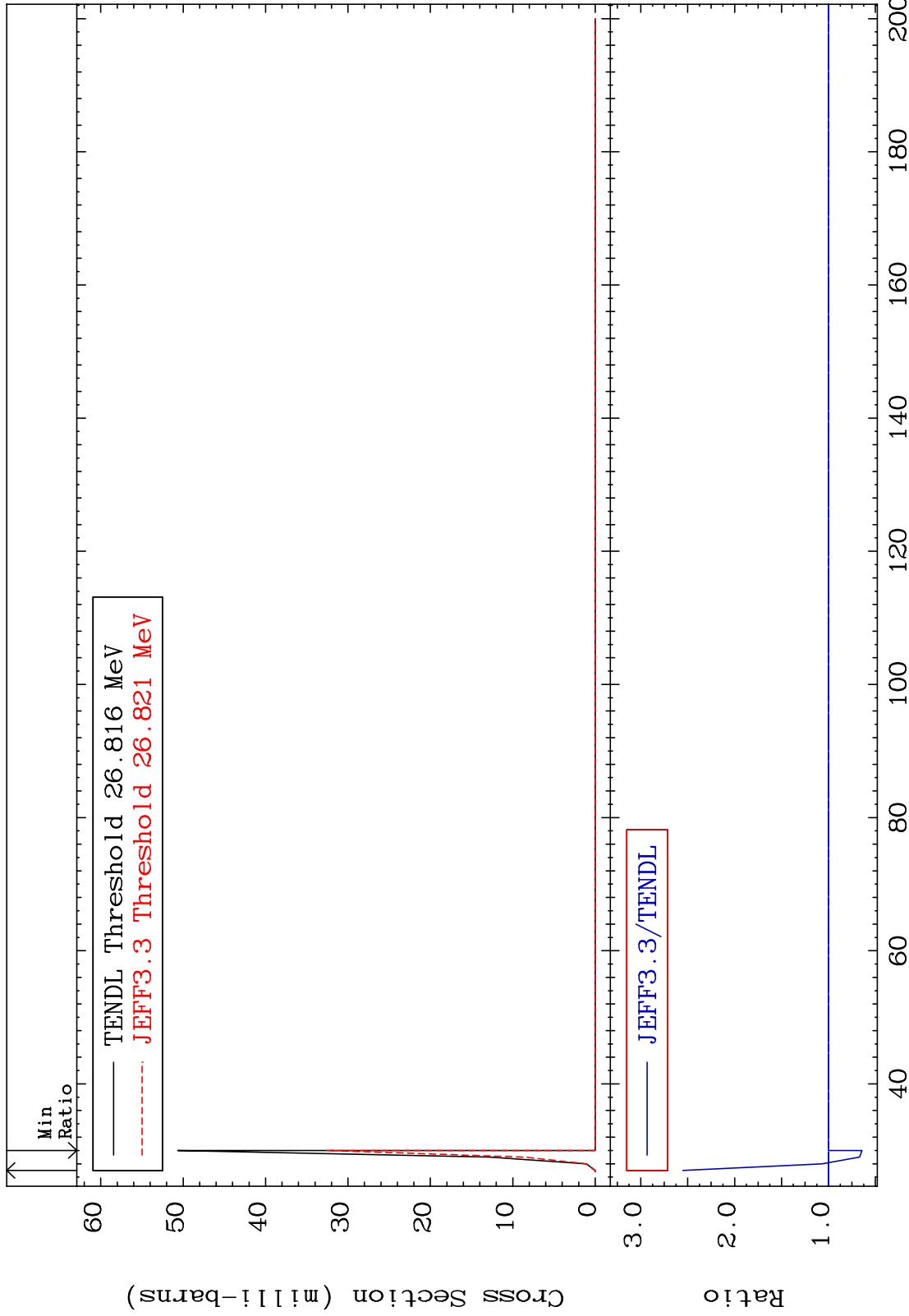
MAT 5837

(n, 4n): 58-Ce-137m2

58-Ce-140

Radionuclide Production Cross Section

-35.73 To 155.1 %



90

Incident Energy (MeV)

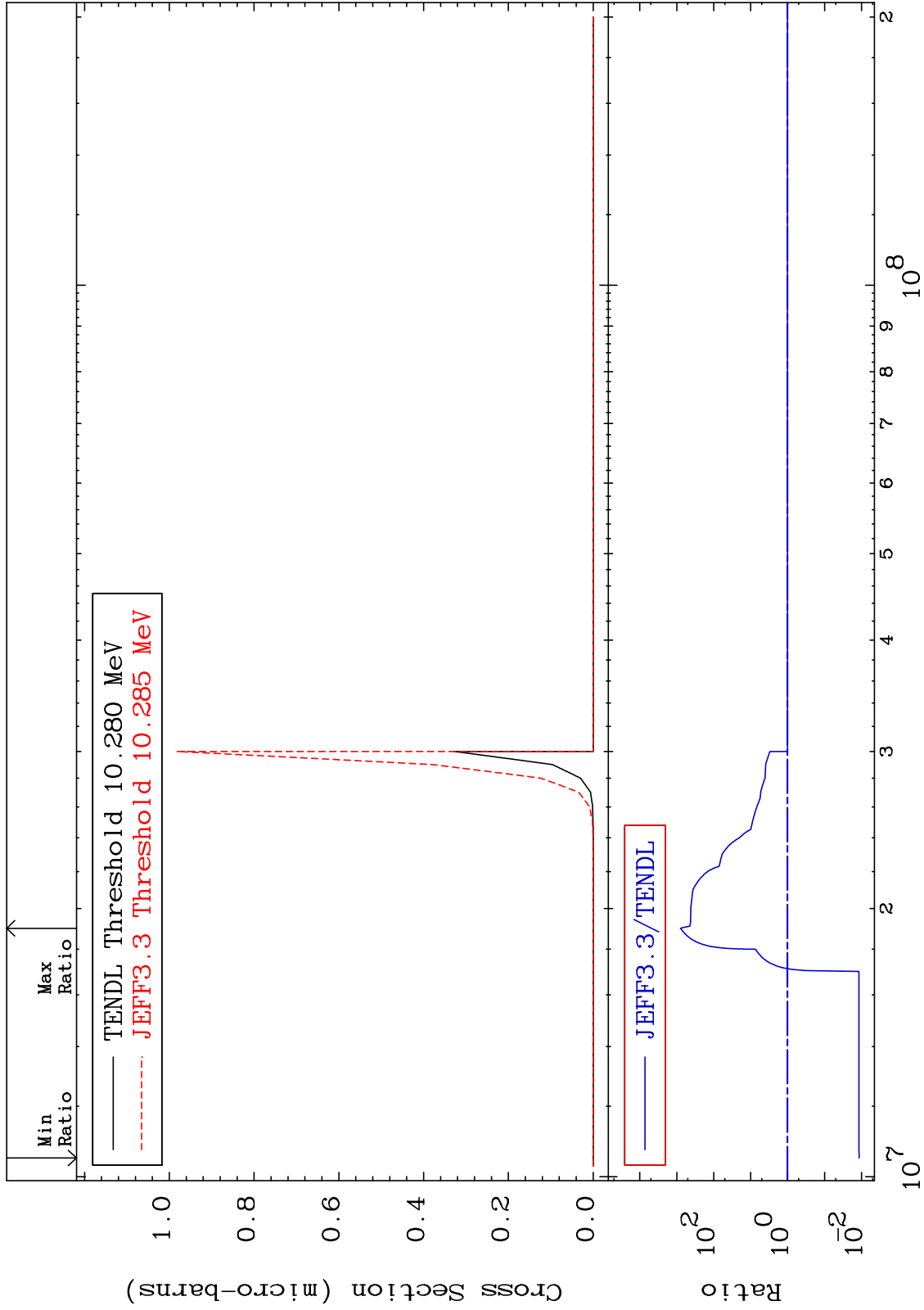
58-Ce-140

MAT 5837

(n, n') p α :55-Cs-135g

58-Ce-140

Radionuclide Production Cross Section -98.84 To 9999. %



91

Incident Energy (eV)

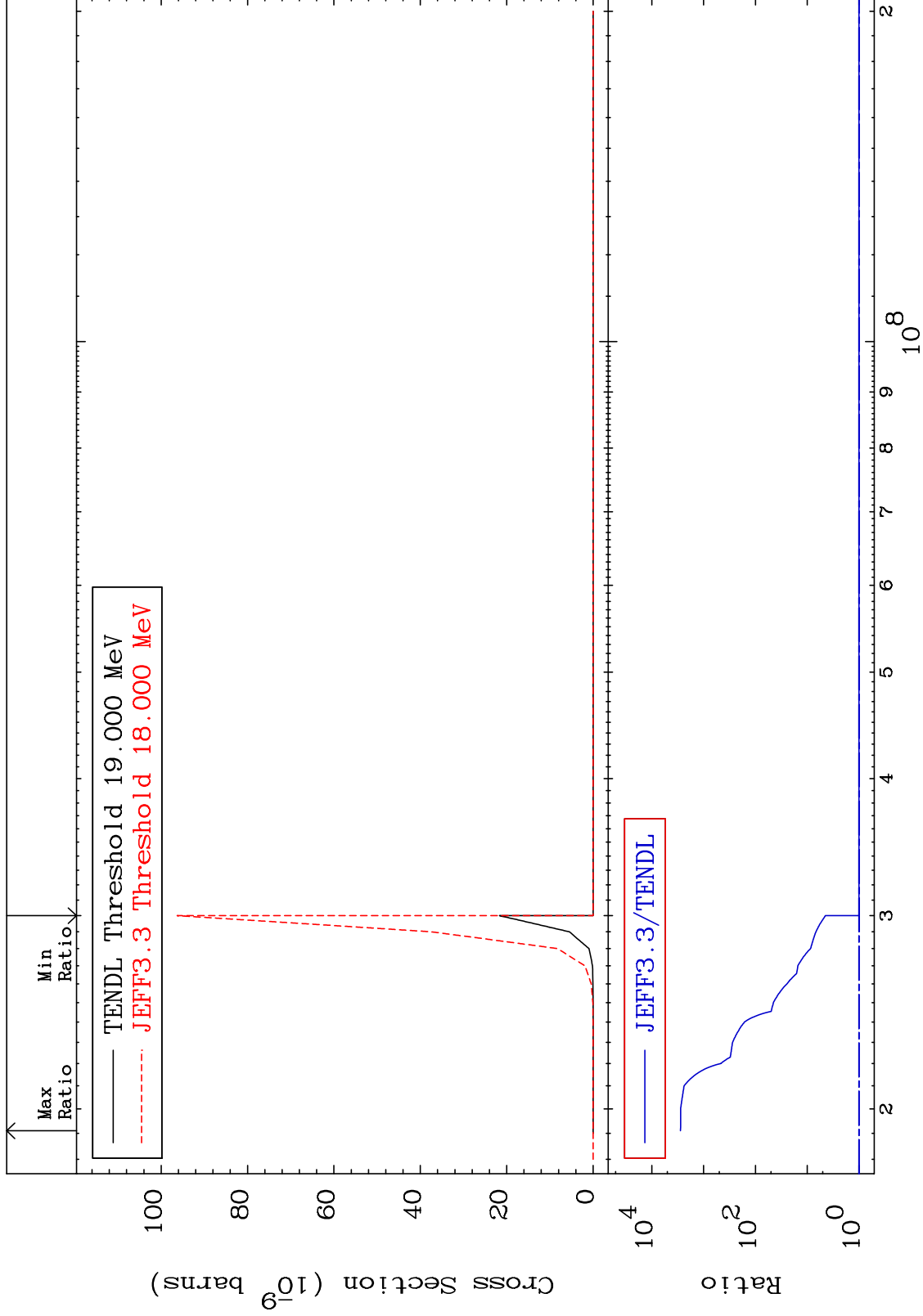
58-Ce-140

MAT 5837

(n,n') p α :55-Cs-135m10

58-Ce-140

Radionuclide Production Cross Section 0.000 To 9999. %



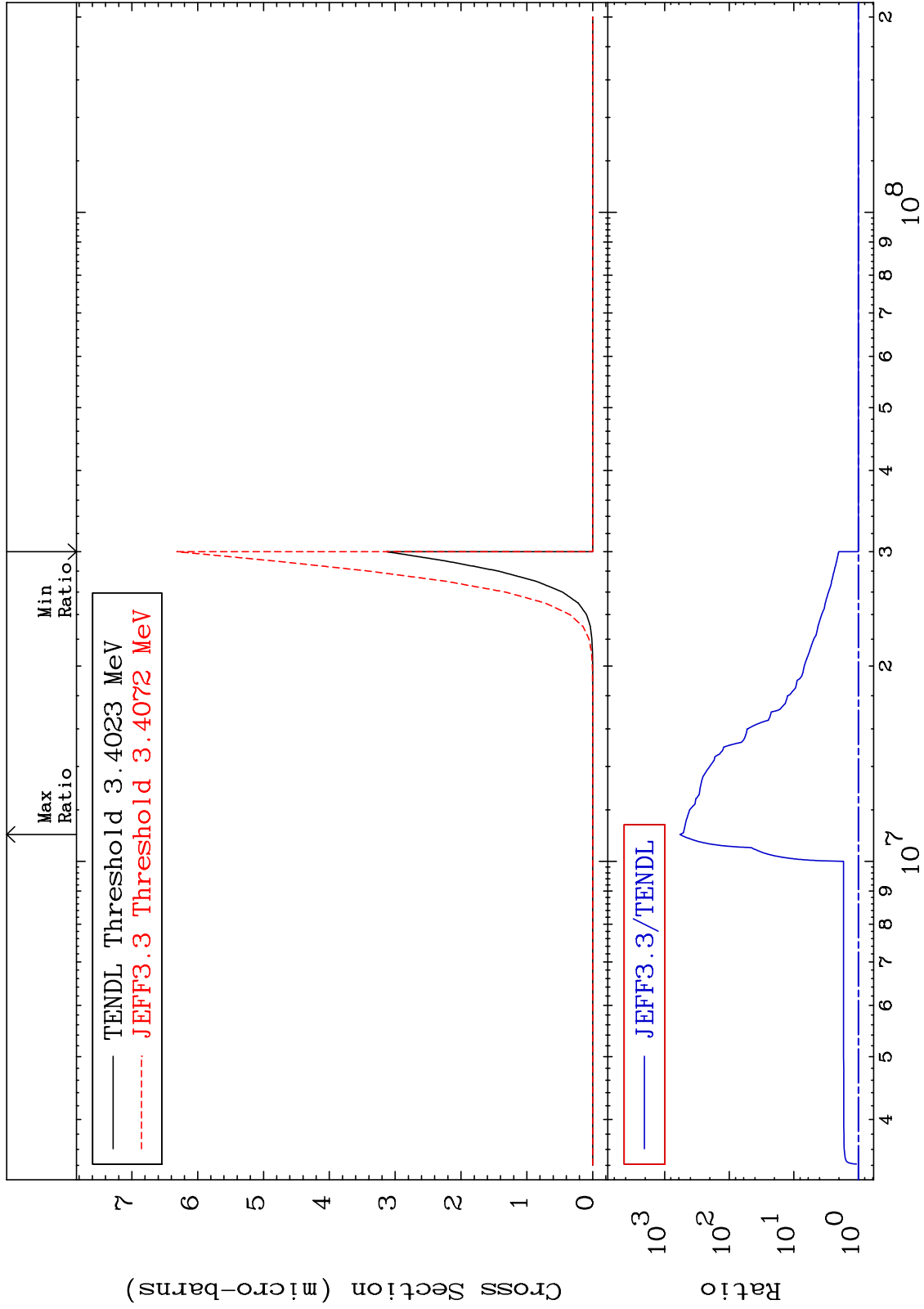
92

Incident Energy (eV)

58-Ce-140

MAT 5837

(n, p) α :55-Cs-136g 58-Ce-140
Radionuclide Production Cross Section 0.000 To 9999. %

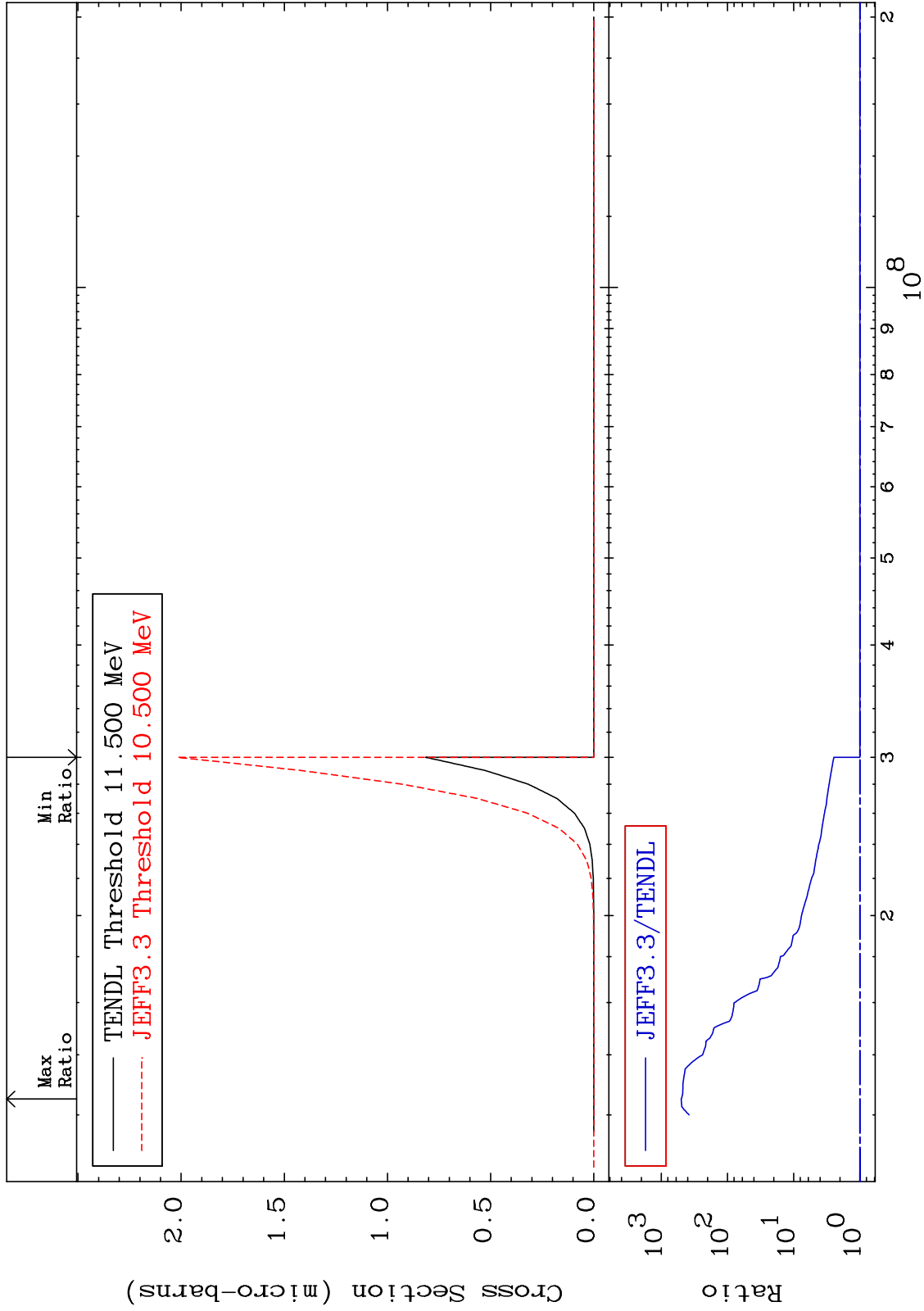


MAT 5837

(n, p) α :55-Cs-136m1

58-Ce-140

Radionuclide Production Cross Section 0.000 To 9999. %

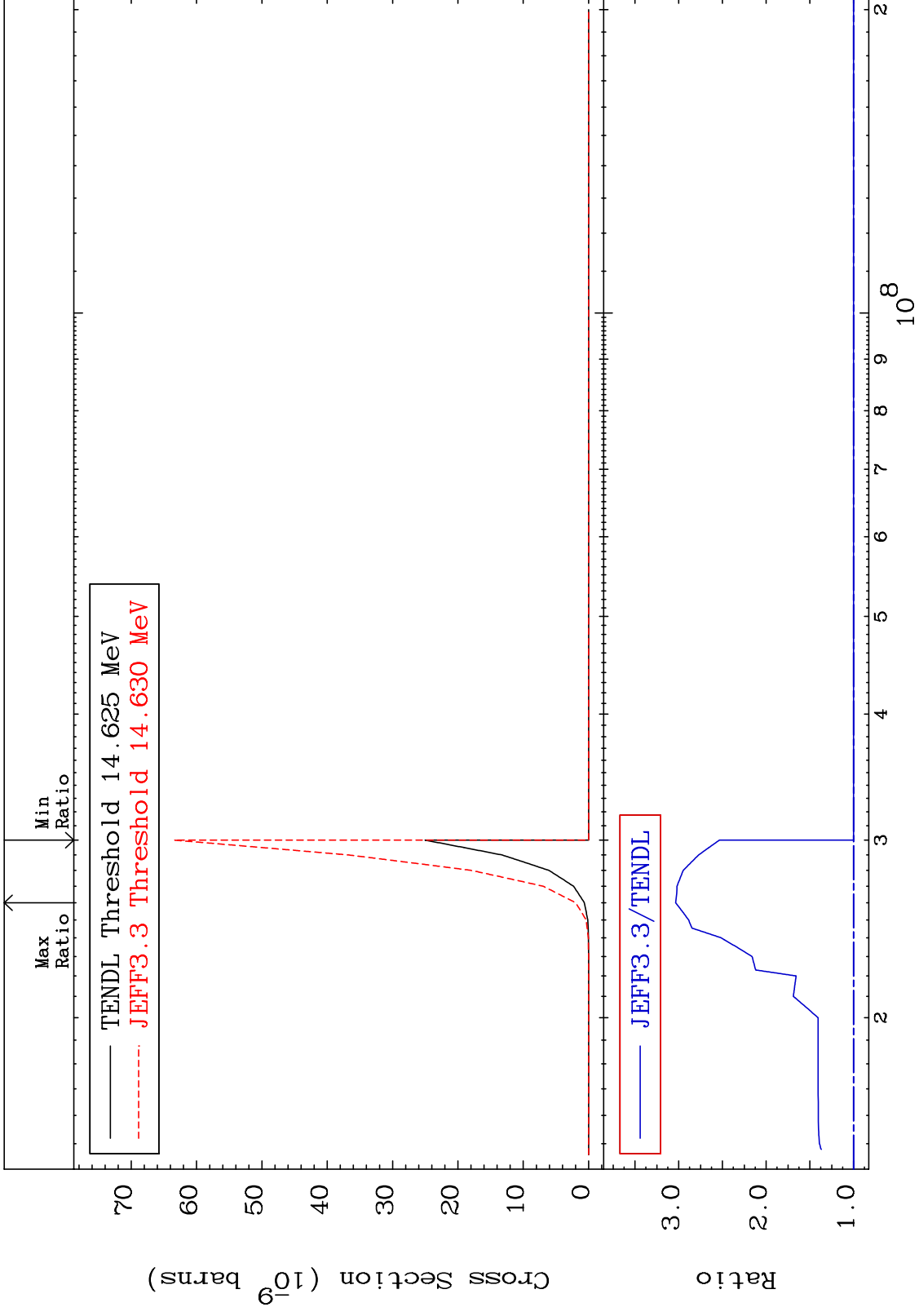


MAT 5837

(n,p) t:56-Ba-137g

58-Ce-140

Radionuclide Production Cross Section 0.000 To 203.4 %

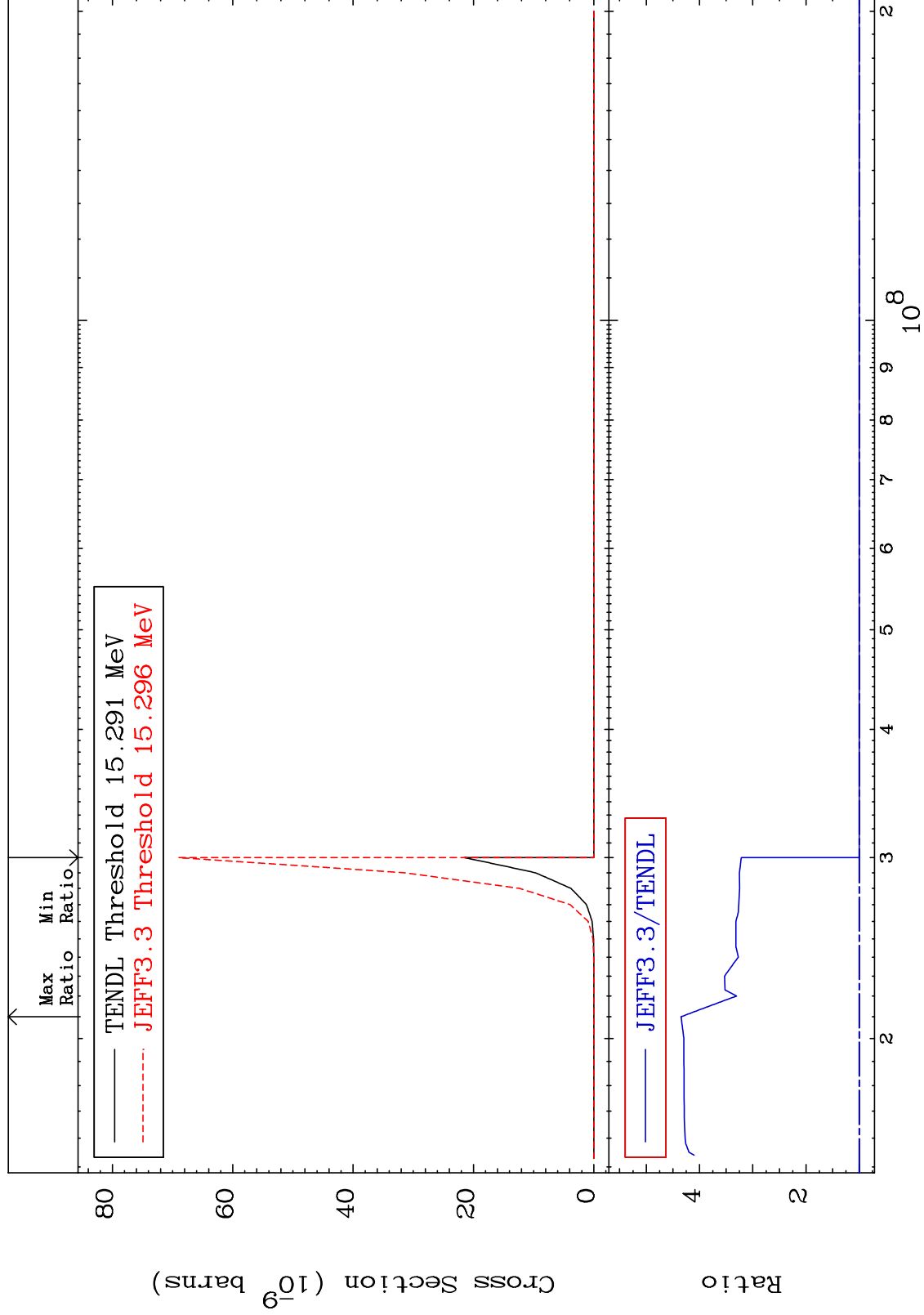


MAT 5837

(n, p) t:56-Ba-137m2

58-Ce-140

Radionuclide Production Cross Section 0.000 To 334.7 %

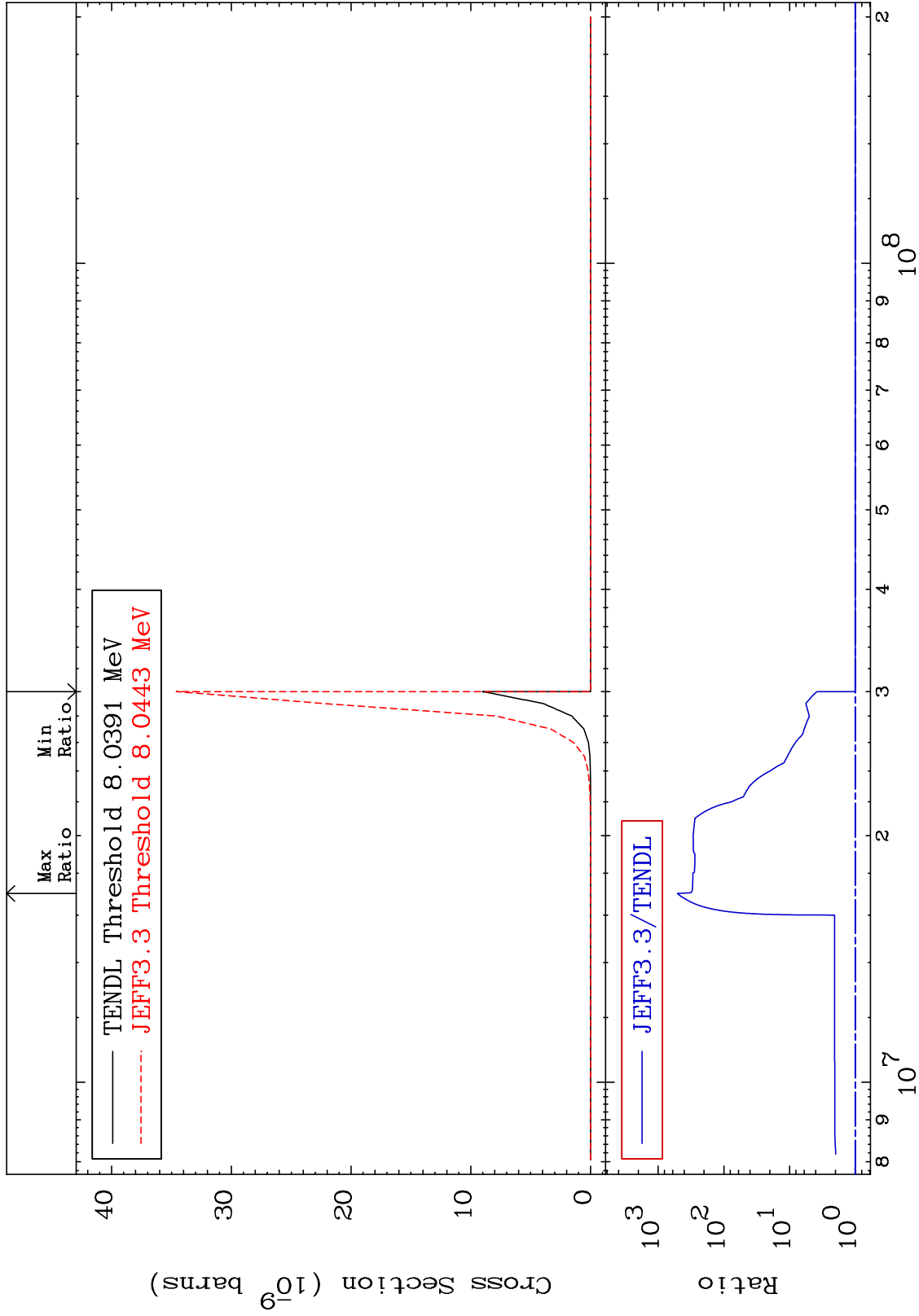


MAT 5837

(n, d) α :55-Cs-135g

58-Ce-140

Radionuclide Production Cross Section 0.000 To 9999. %



97

Incident Energy (eV)

58-Ce-140

MAT 5837

(n, d) α :55-Cs-135m10

58-Ce-140

Radionuclide Production Cross Section 0.000 To 9999. %

