

Program Complot
(Version 2018-1)

by

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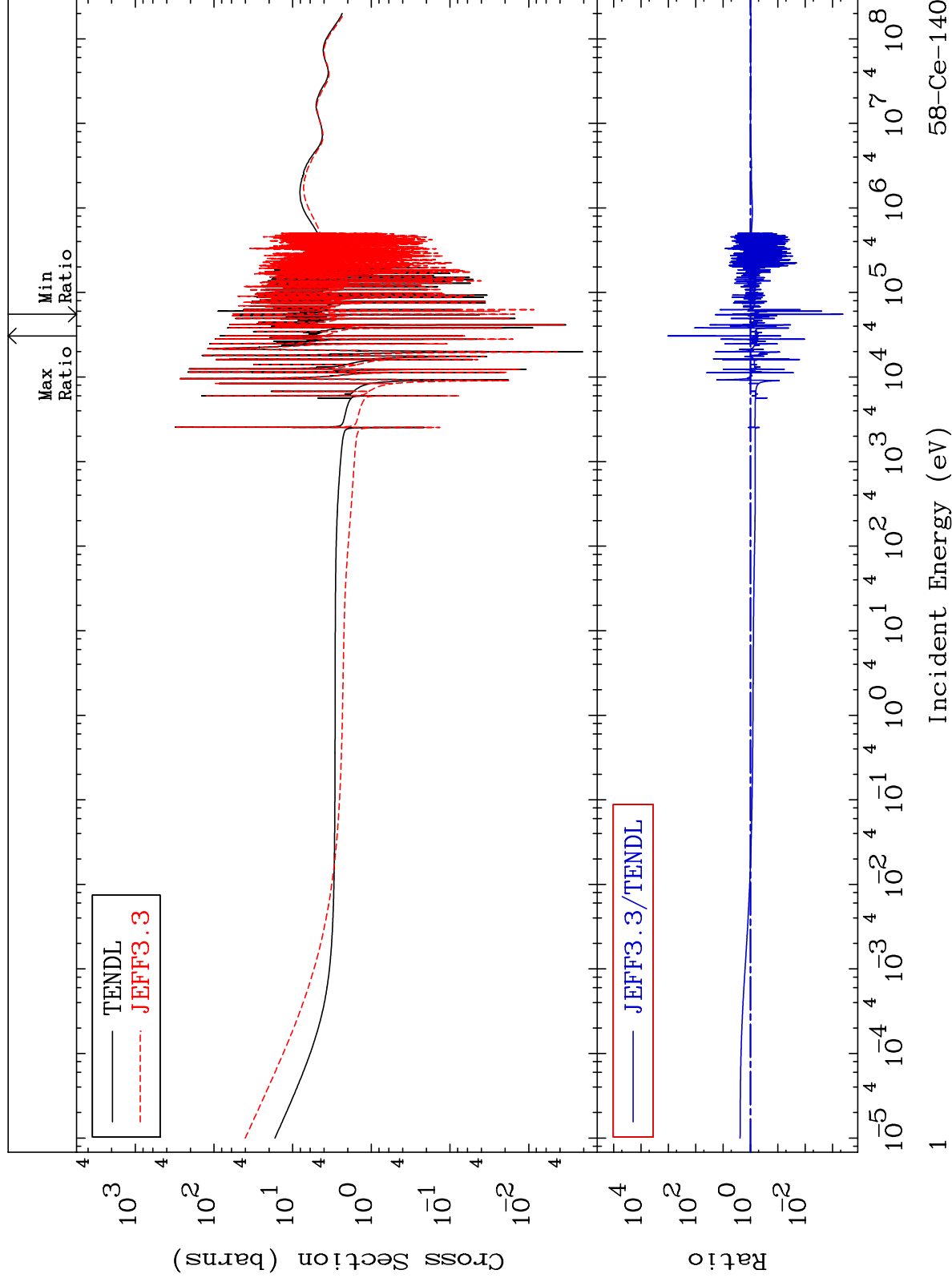
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5837

Total
Cross Section

58-Ce-140
-99.96 To 9999. %



58-Ce-140

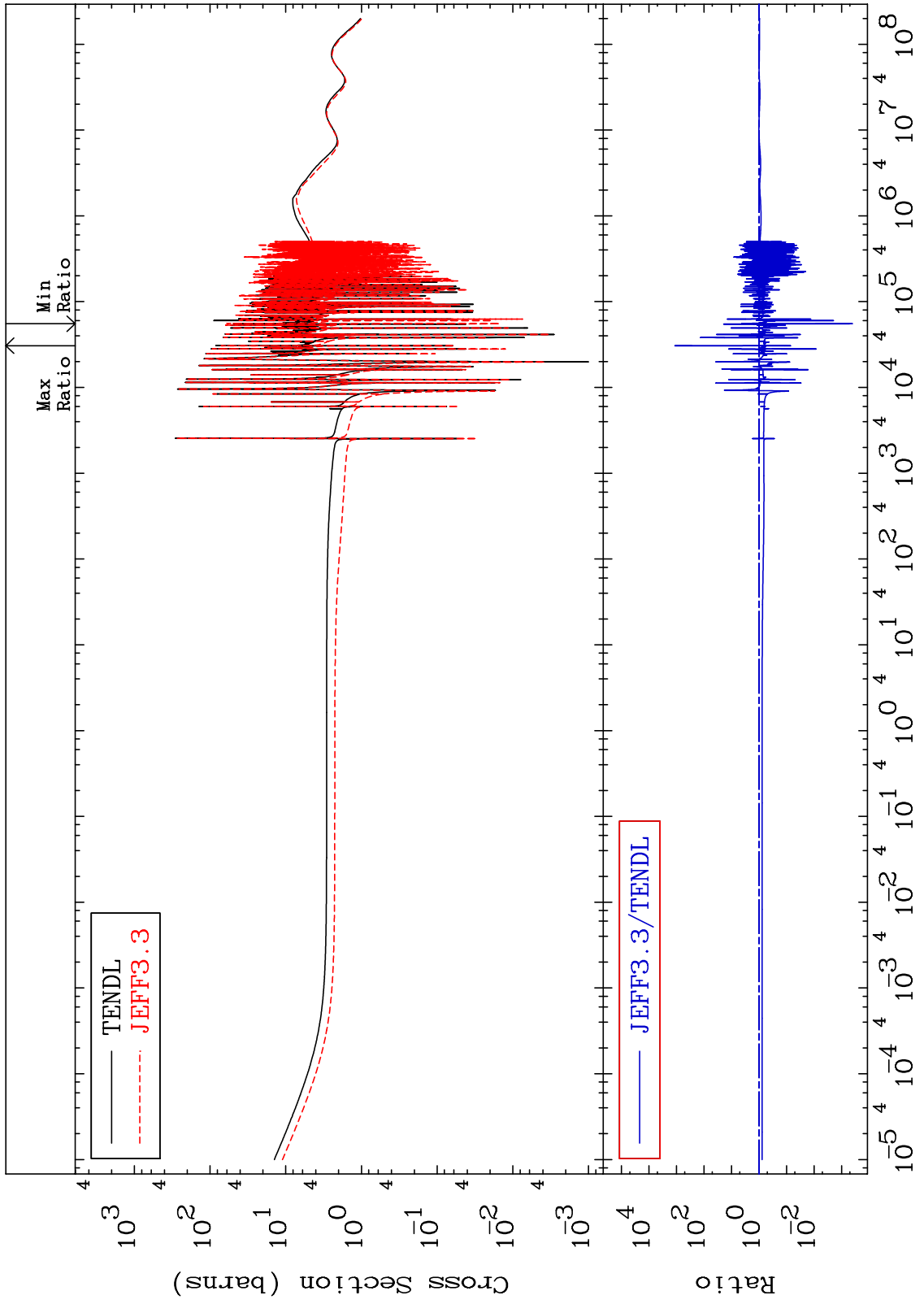
Incident Energy (eV)

1

MAT 5837

Elastic
Cross Section

58-Ce-140
-99.96 To 9999. %

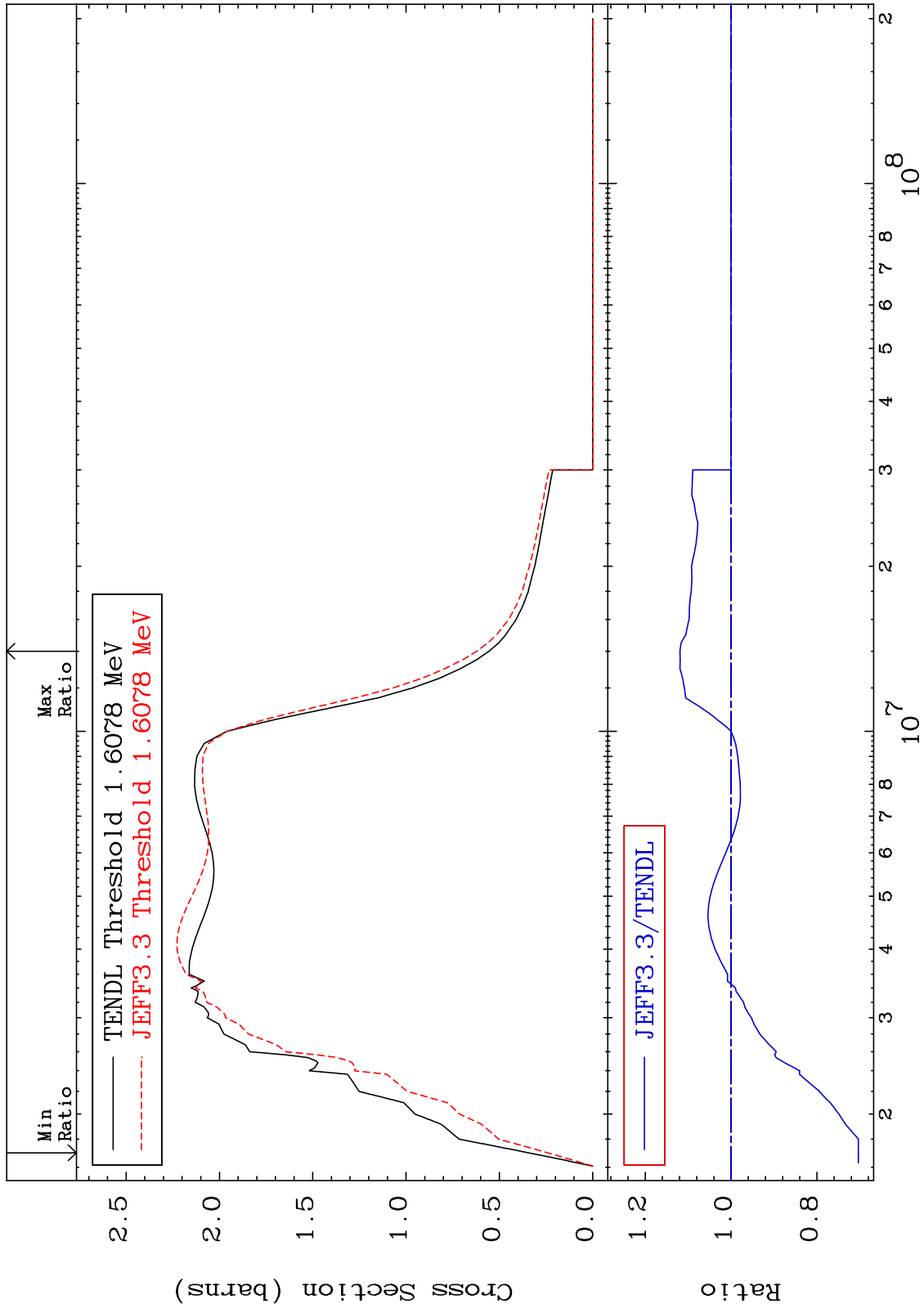


Incident Energy (eV)

58-Ce-140

2

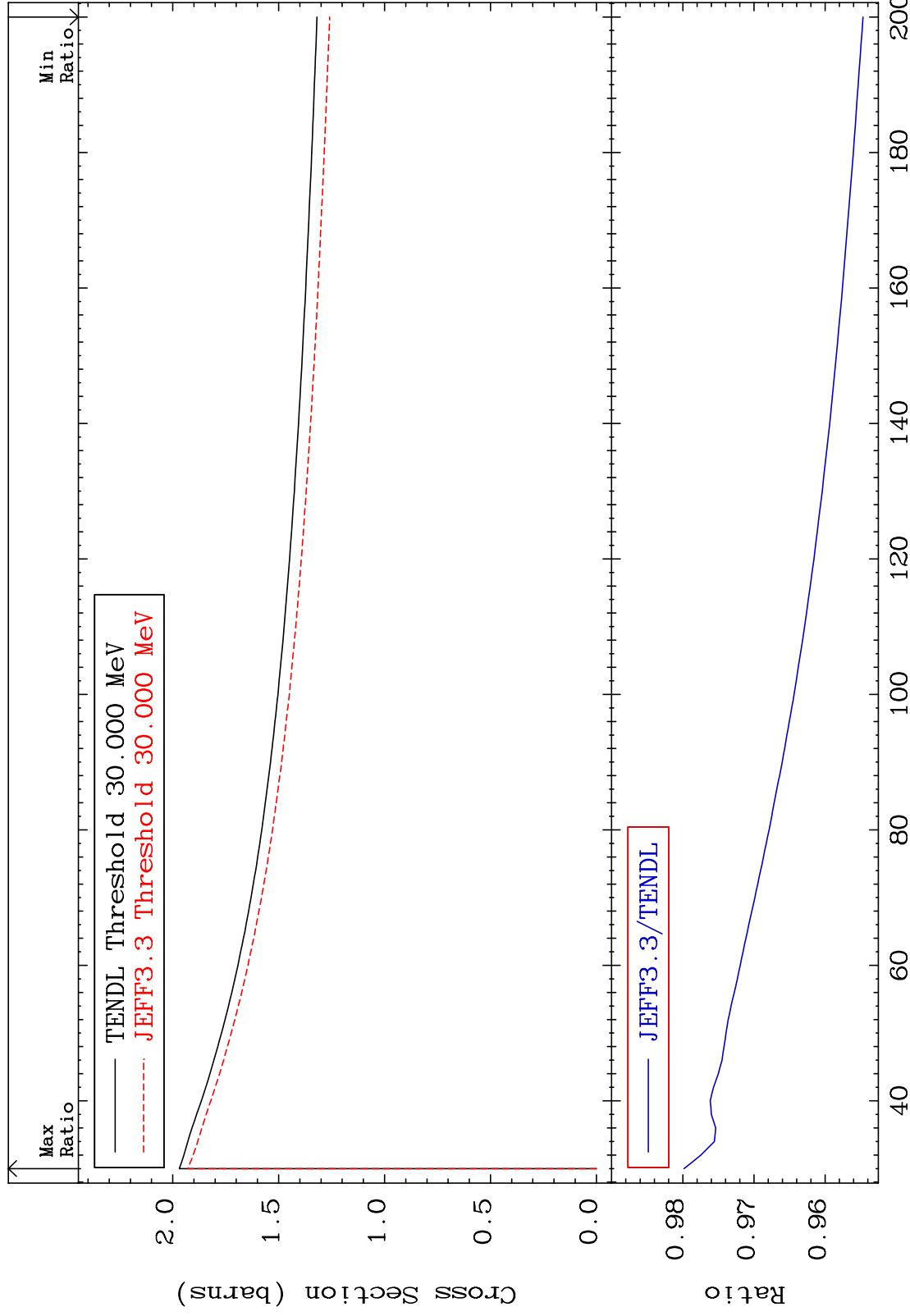
MAT 5837 58-Ce-140 -29.65 To 11.89 % Inelastic Cross Section



MAT 5837

(n, remainder)
Cross Section

58-Ce-140
-4.532 To -2.017%



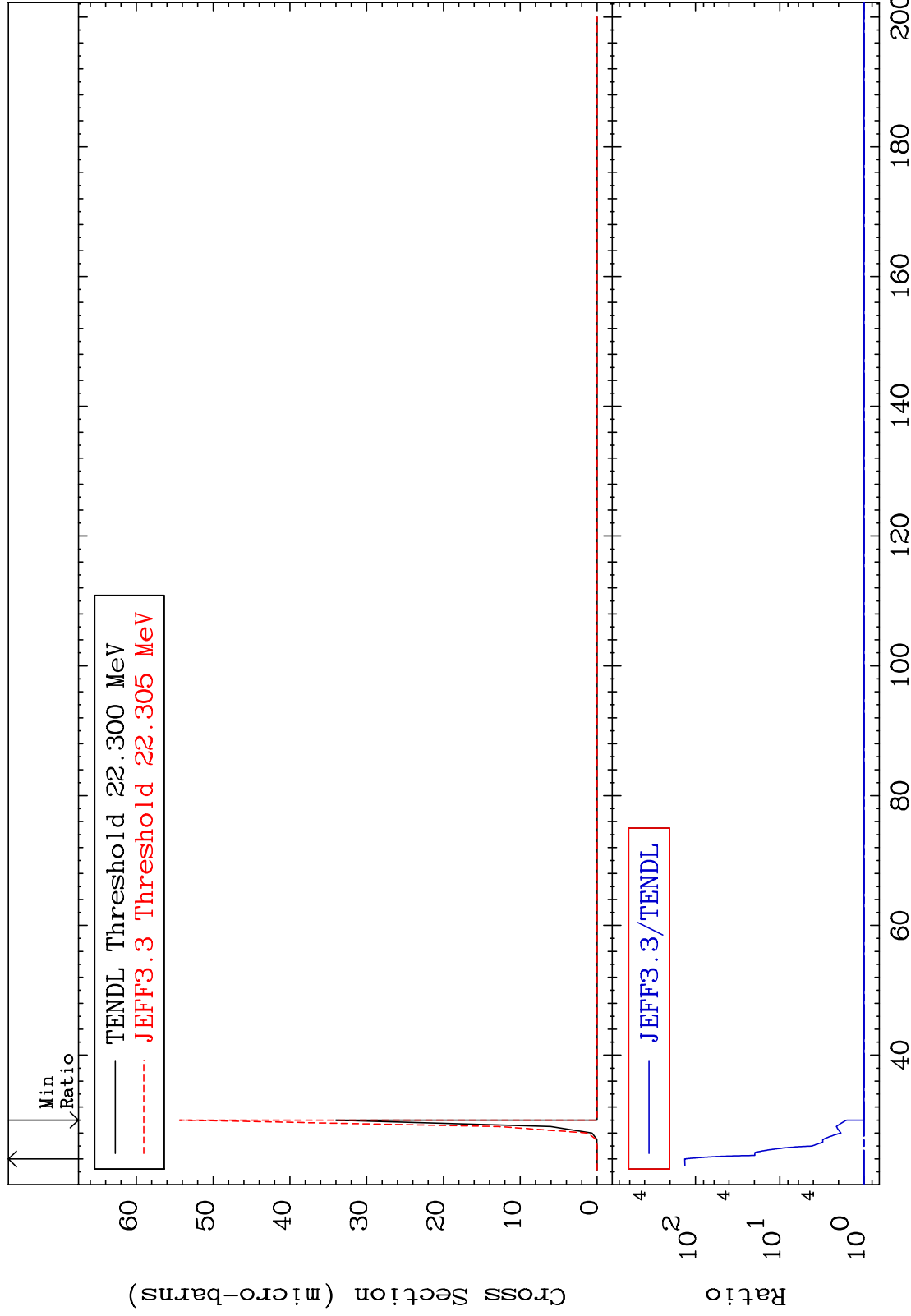
MAT 5837

(n,2n) d

58-Ce-140

Cross Section

0.000 To 9999. %



58-Ce-140

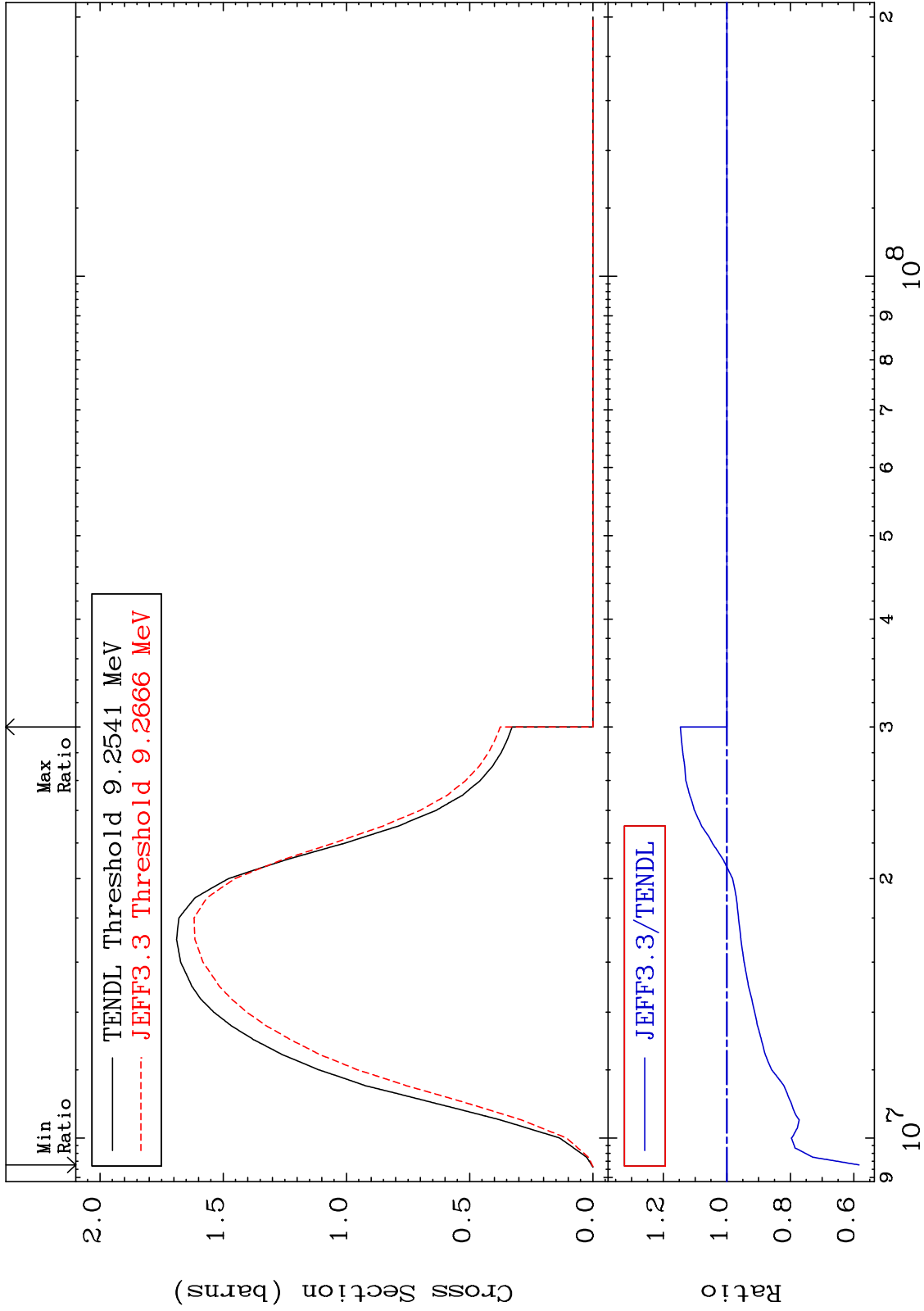
MAT 5837

(n, 2n)

58-Ce-140

Cross Section

-41.65 To 14.63 %



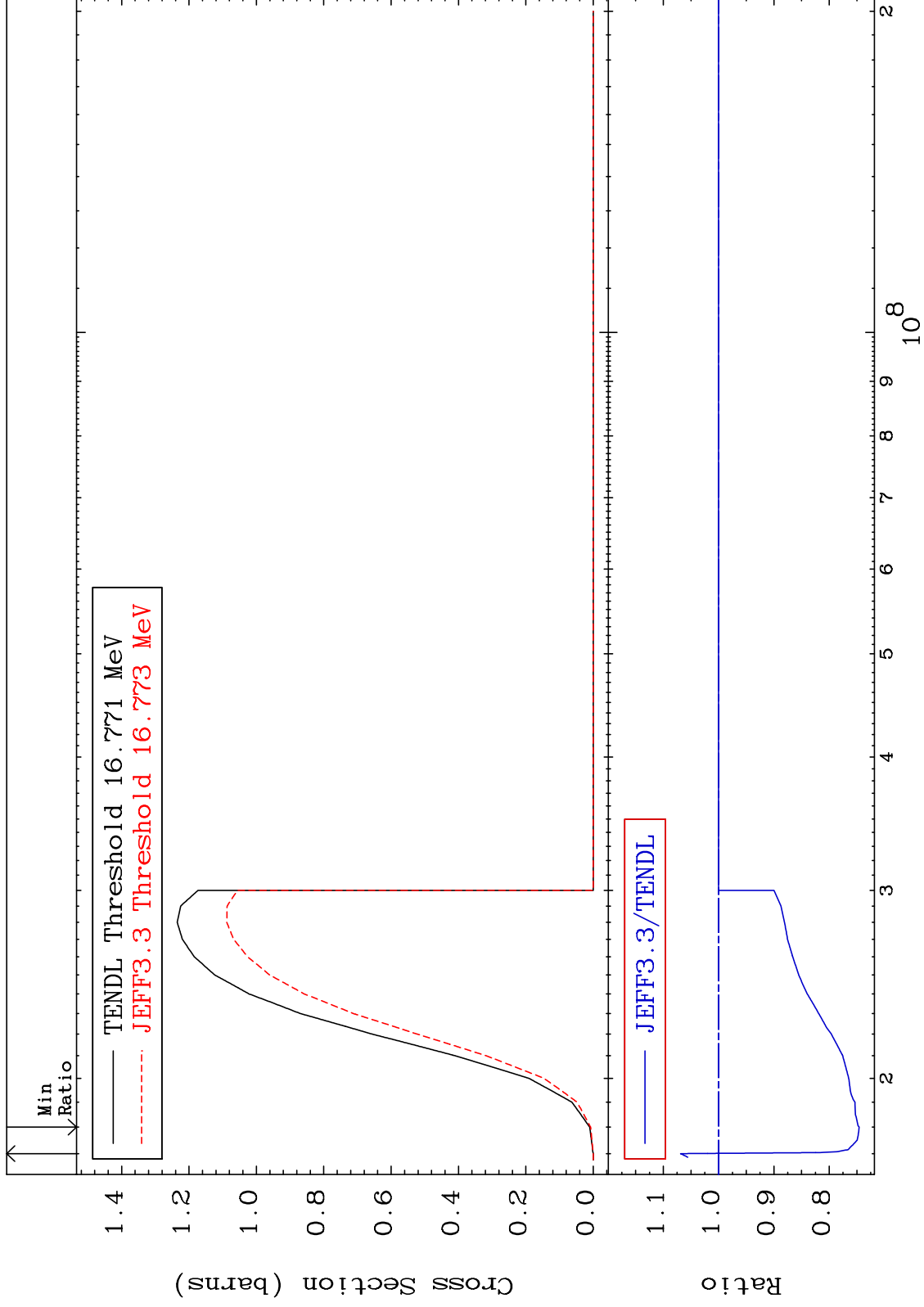
MAT 5837

(n, 3n)

58-Ce-140

Cross Section

-25.41 To 6.875 %



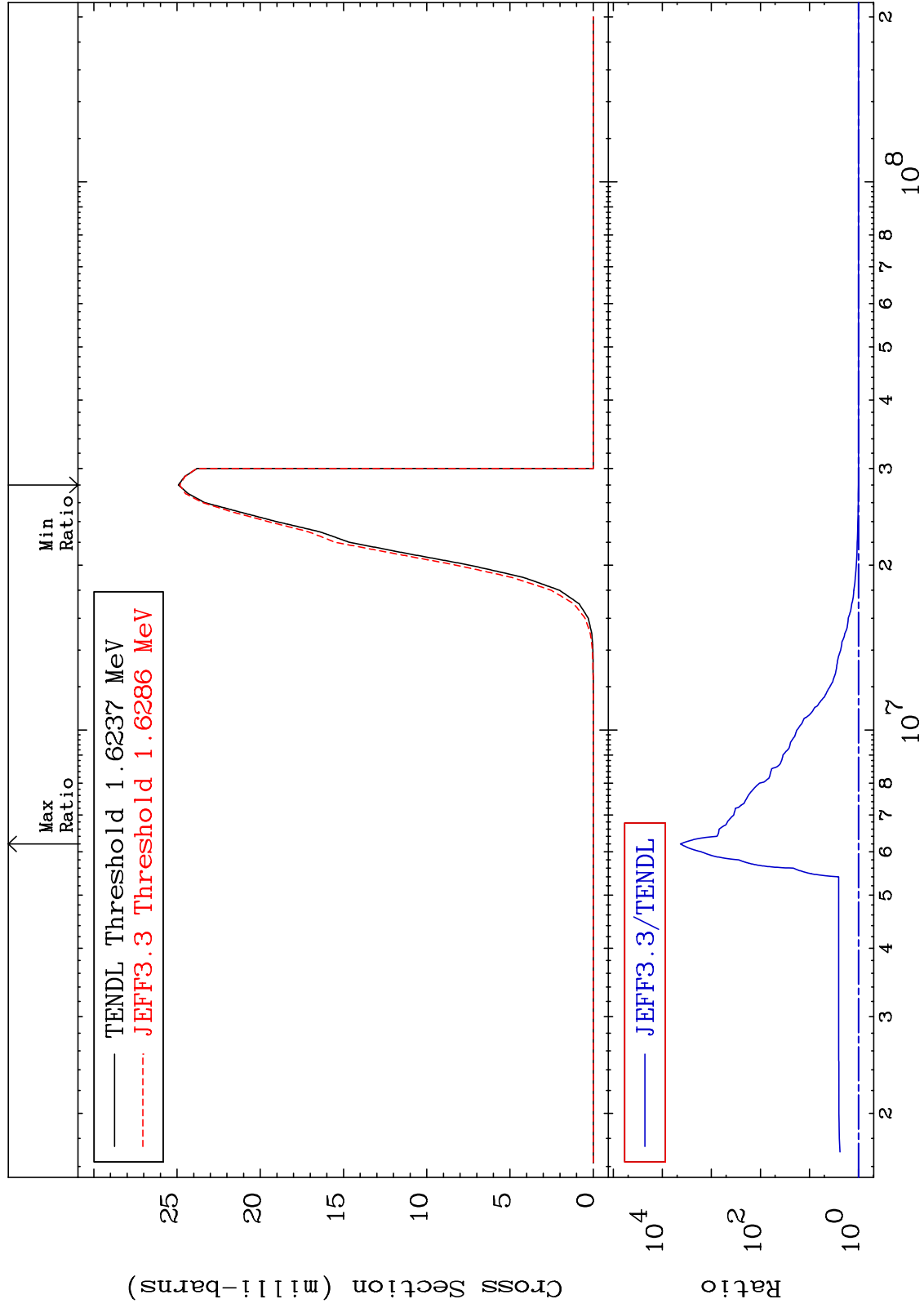
MAT 5837

(n,n') α

58-Ce-140

-0.317 To 9999. %

Cross Section



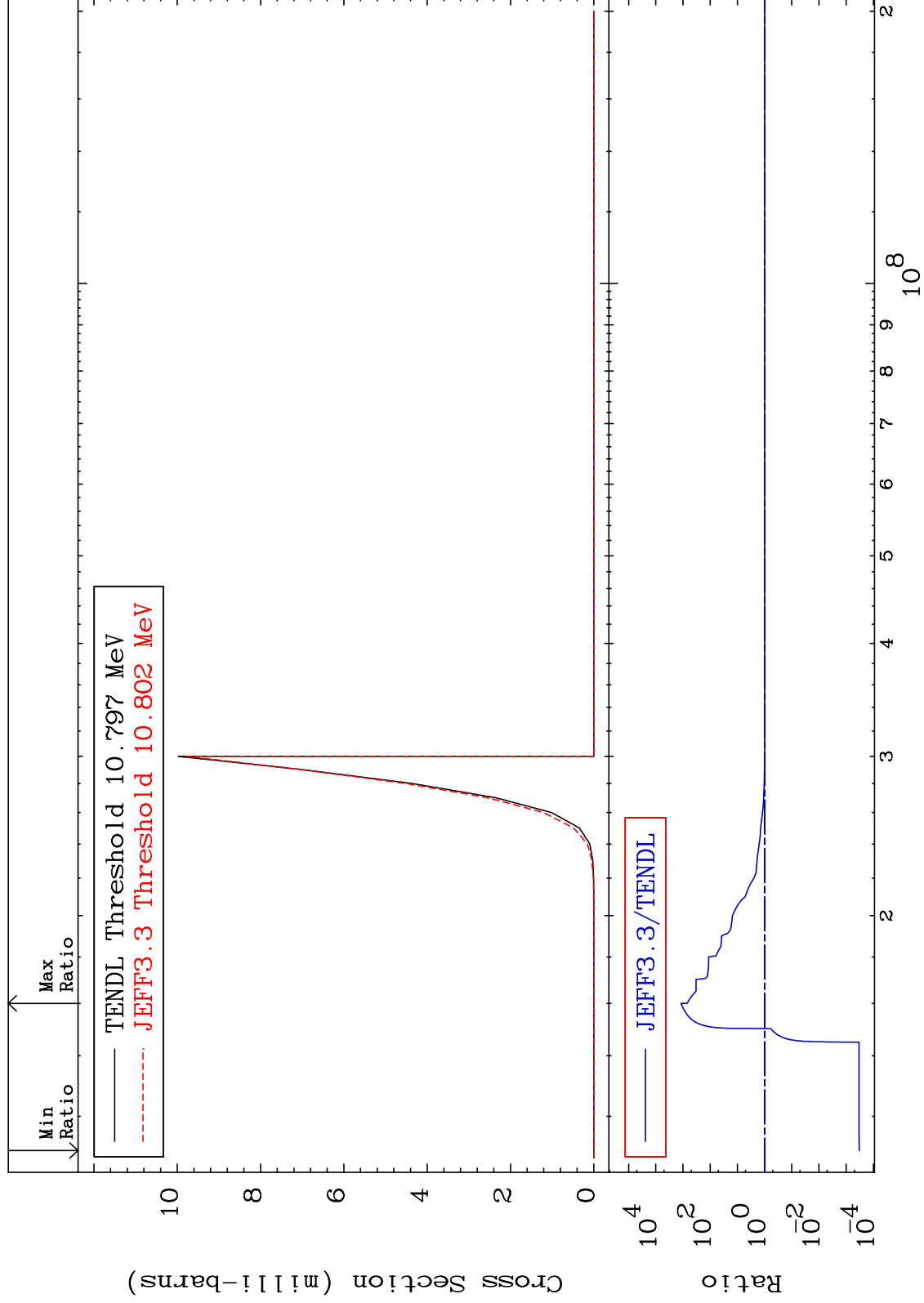
MAT 5837

(n,2n) α

58-Ce-140

Cross Section

-99.97 To 9999. %



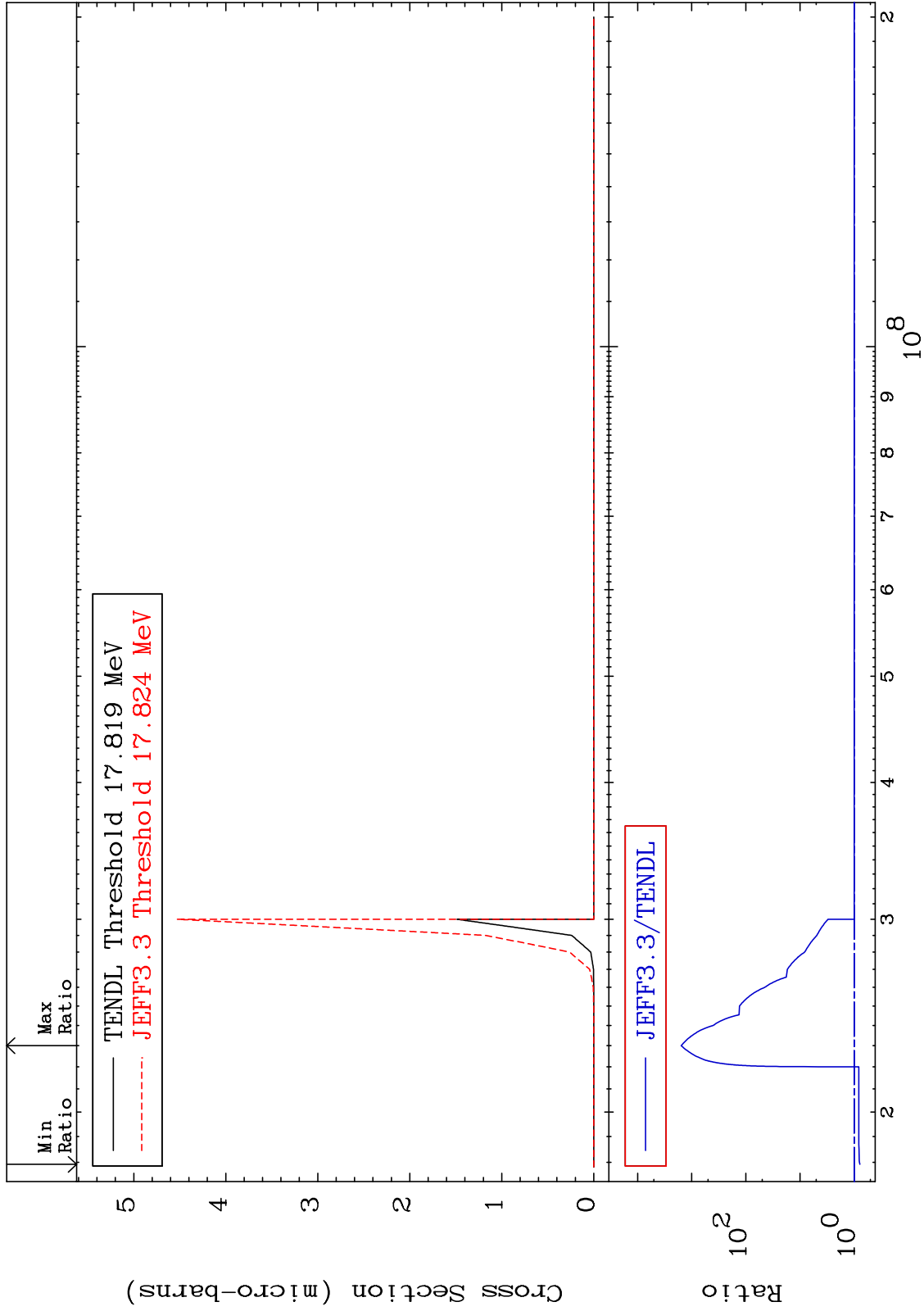
MAT 5837

(n,3n) α

58-Ce-140

Cross Section

-21.95 To 9999. %



10

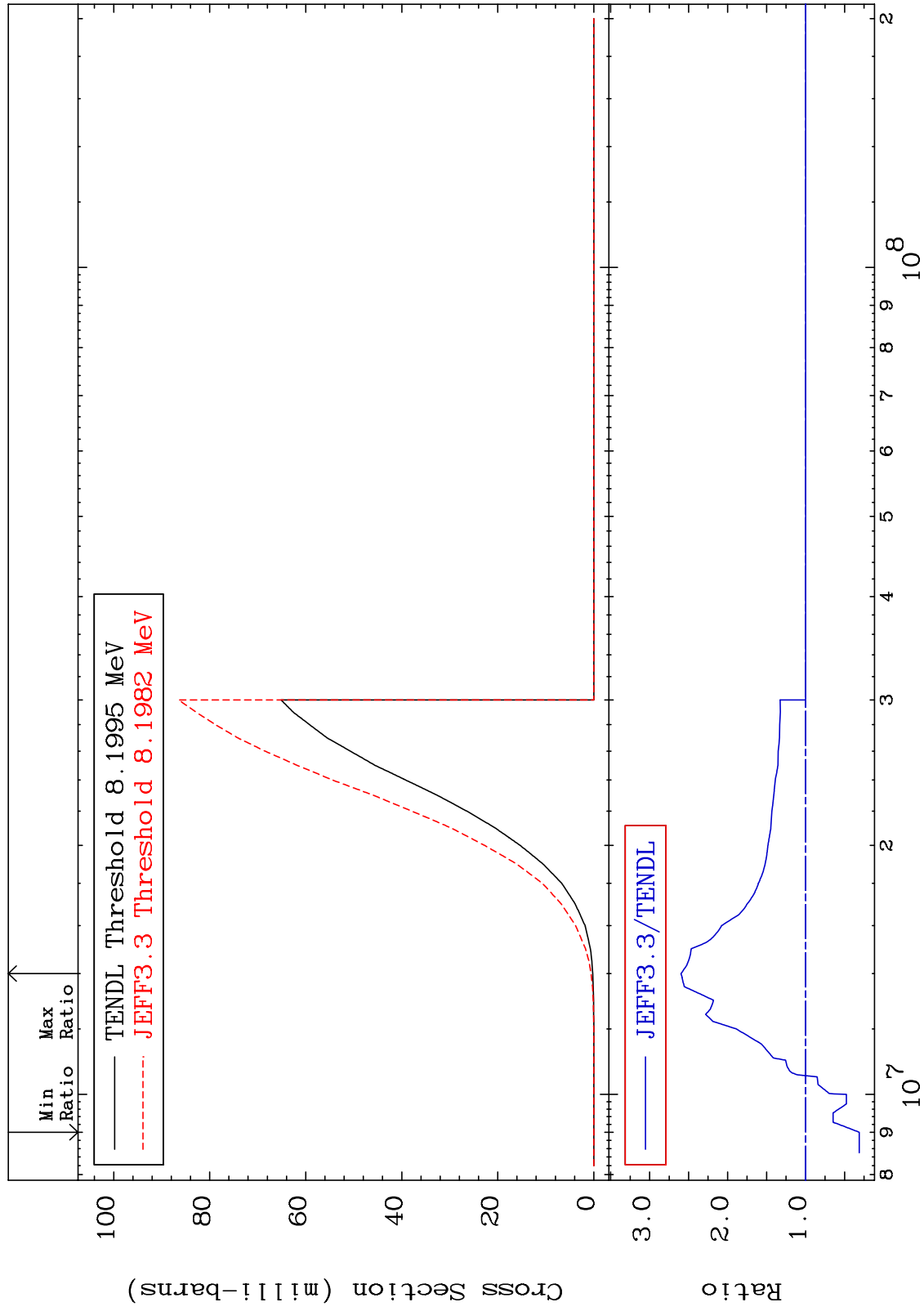
Incident Energy (eV)

58-Ce-140

MAT 5837

(n,n') p
Cross Section

58-Ce-140
-68.80 To 159.7 %



11

Incident Energy (eV)

58-Ce-140

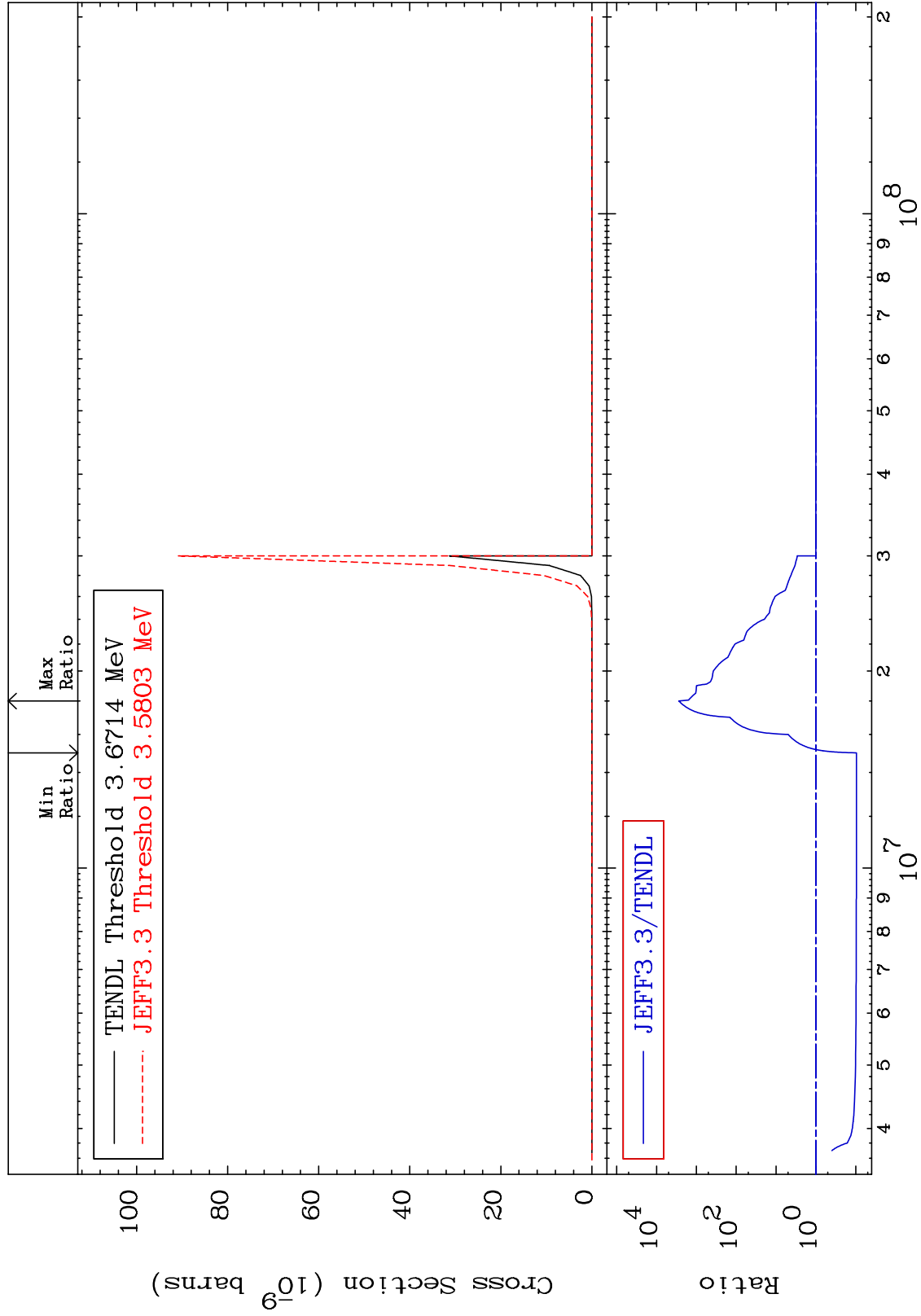
MAT 5837

(n, n') 2α

58-Ce-140

-90.44 To 9999. %

Cross Section



MAT 5837

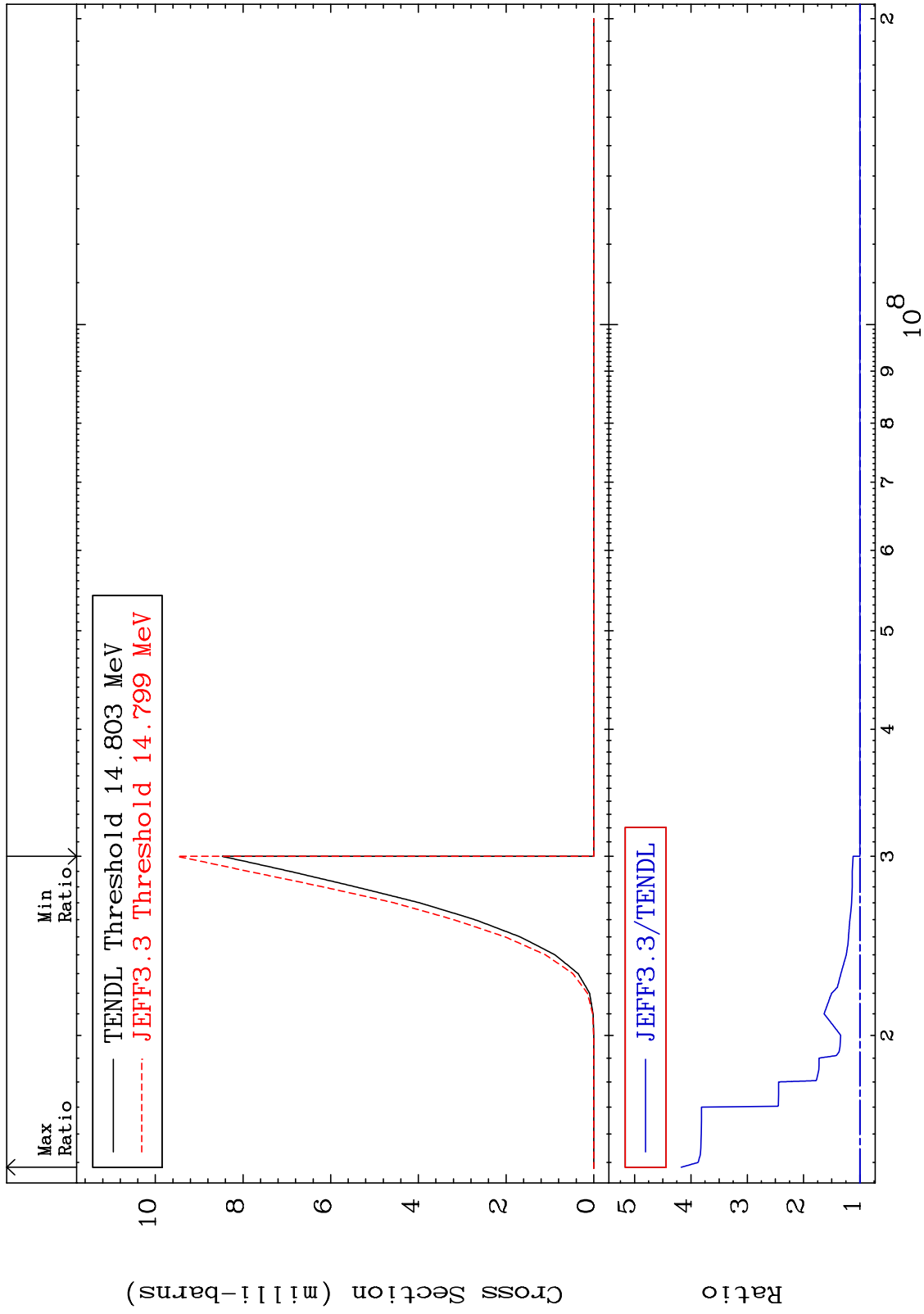
(n, n') d

58-Ce-140

Cross Section

0.000

To 317.2 %



MAT 5837

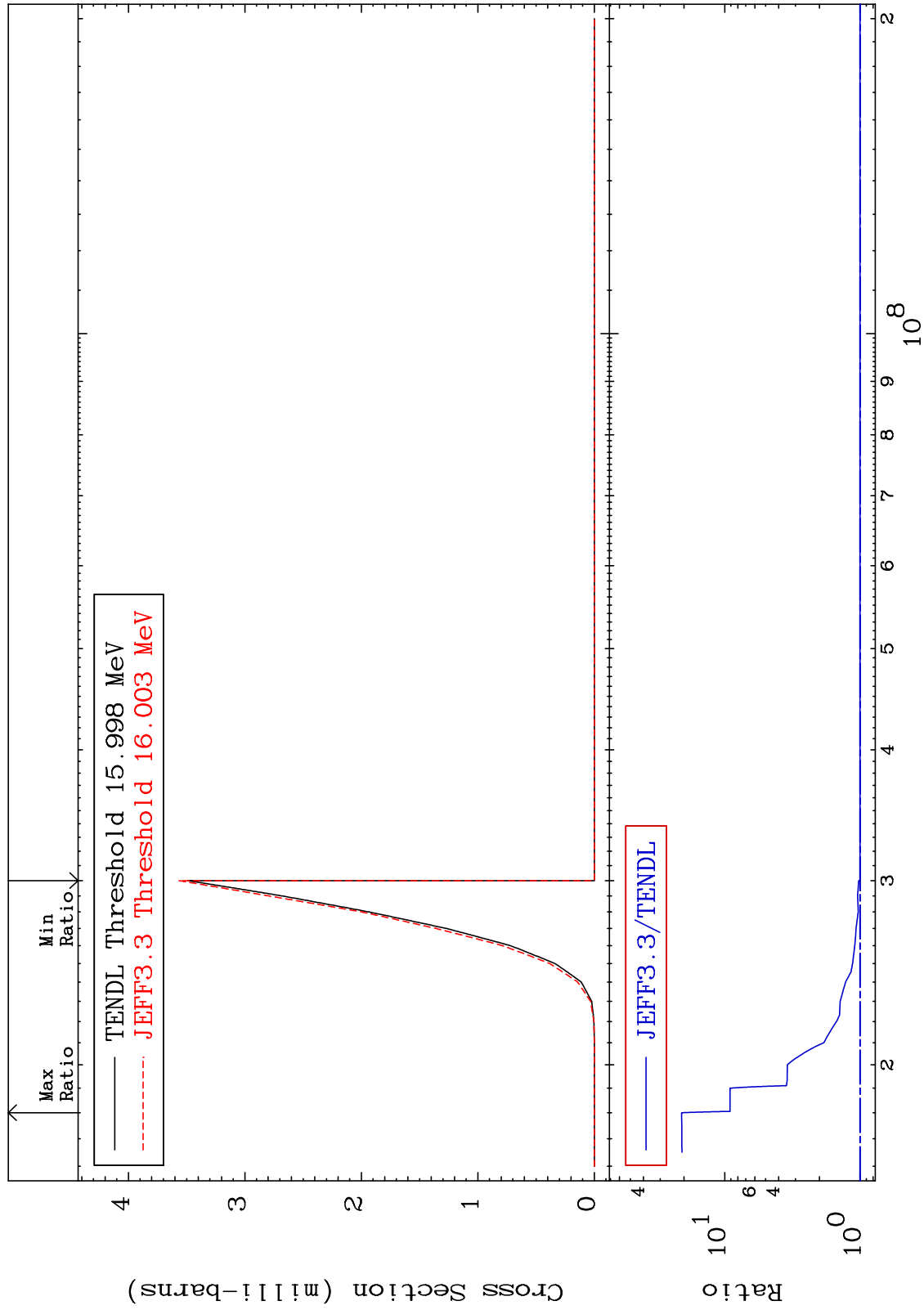
(n,n') t

58-Ce-140

Cross Section

0.000

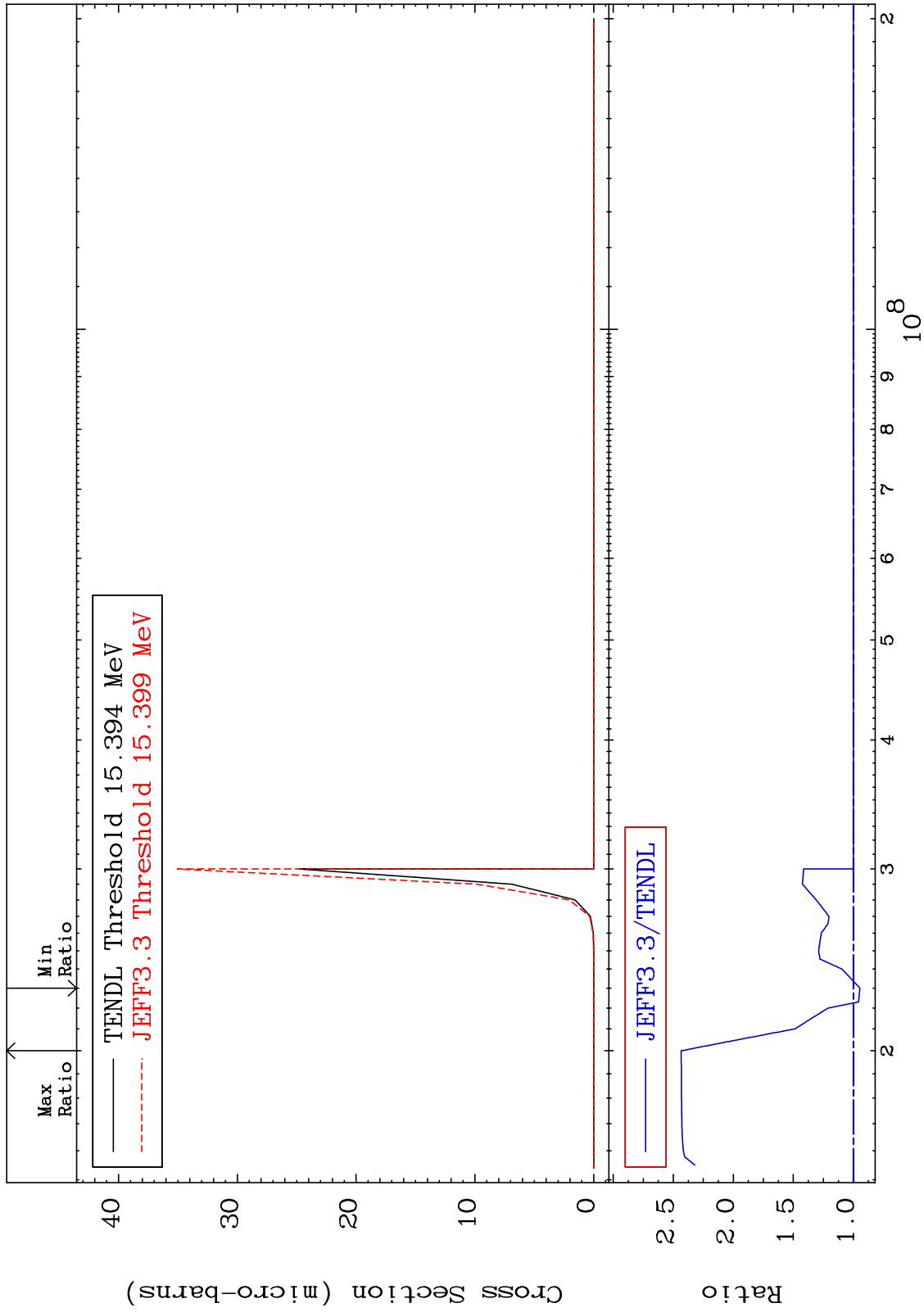
To 1983. %



MAT 5837

(n, n') He-3
Cross Section

58-Ce-140
-5.461 To 143.4 %



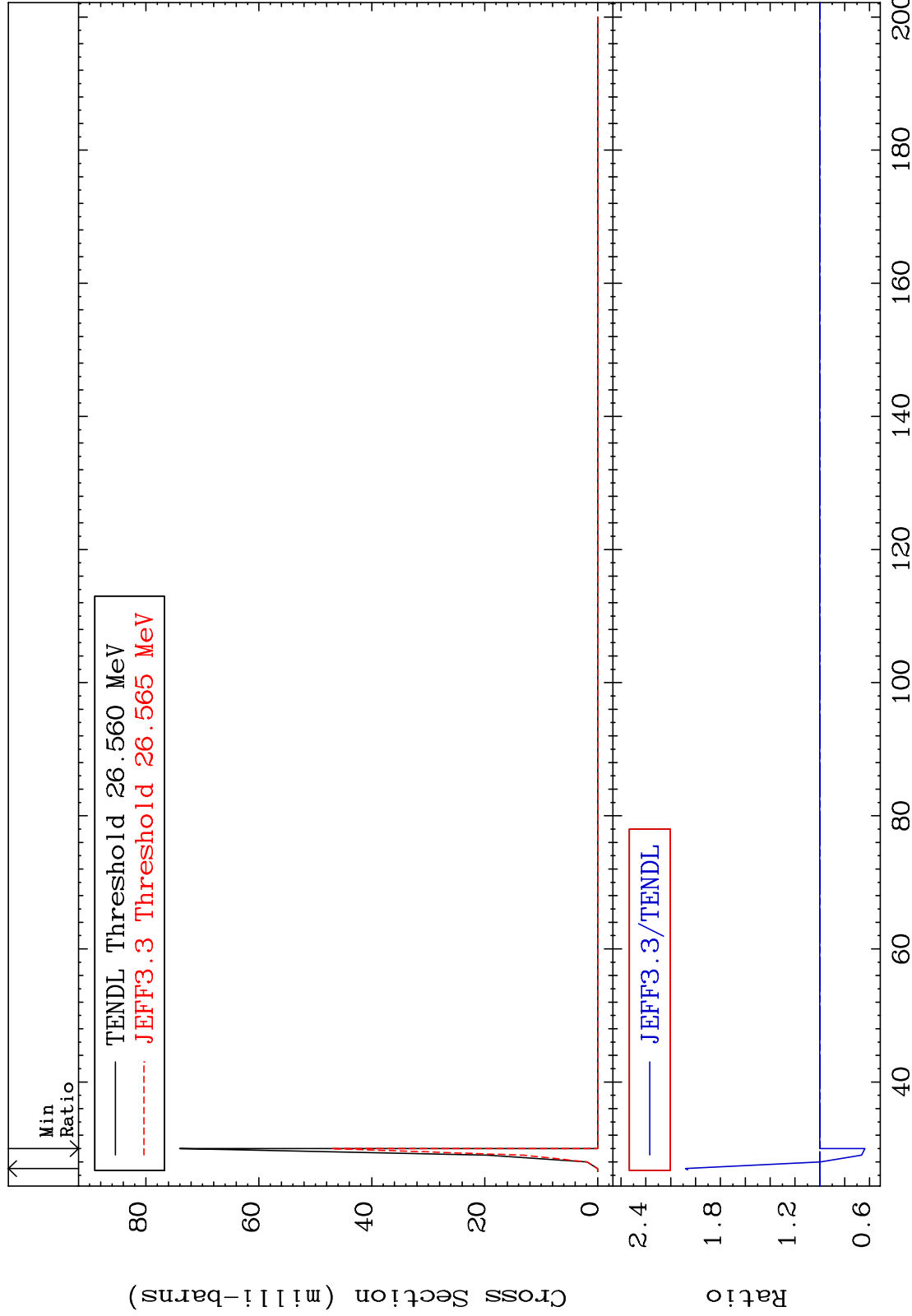
MAT 5837

(n, 4n)

58-Ce-140

Cross Section

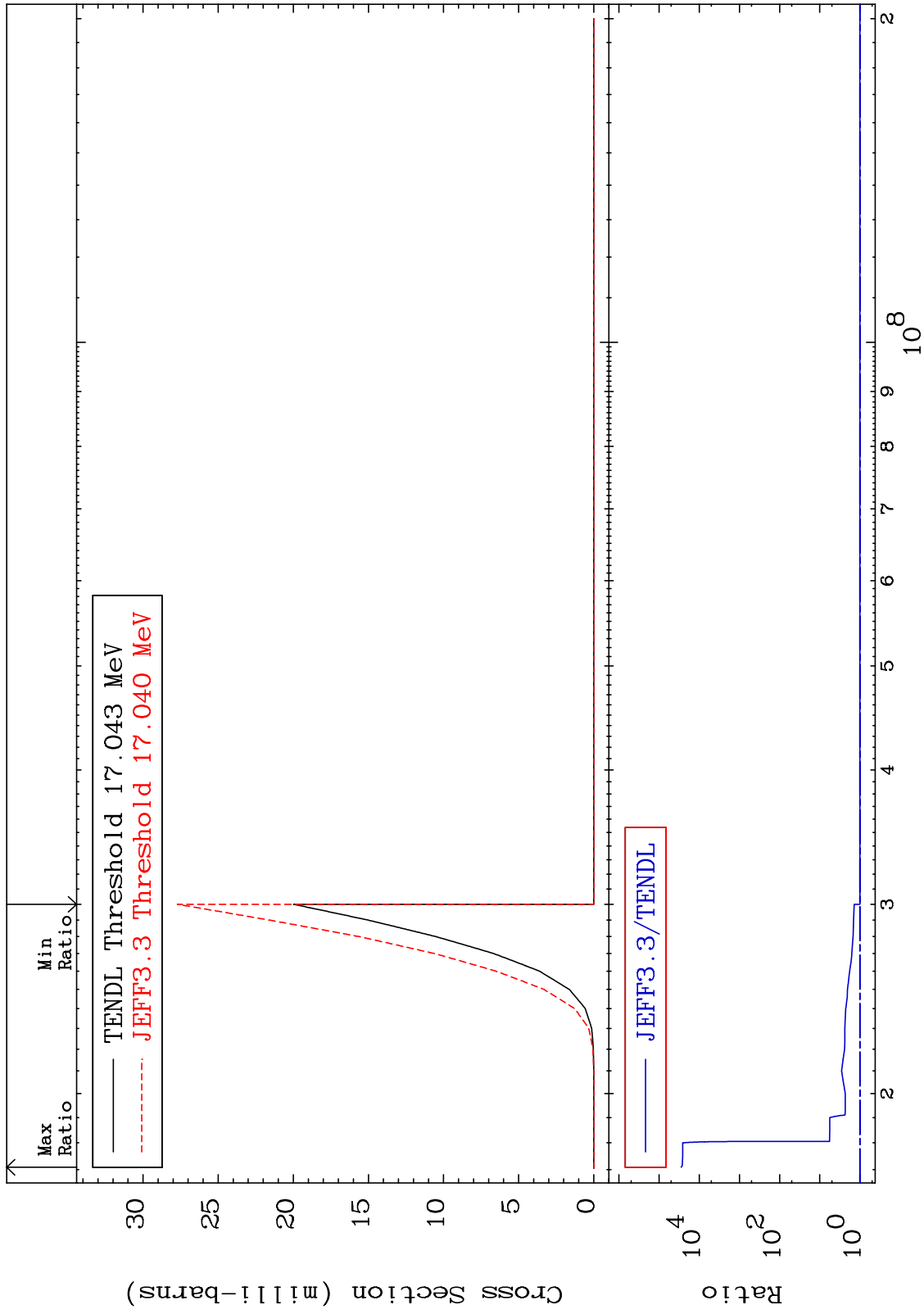
-36.34 To 108.1 %



MAT 5837

(n,2n) p
Cross Section

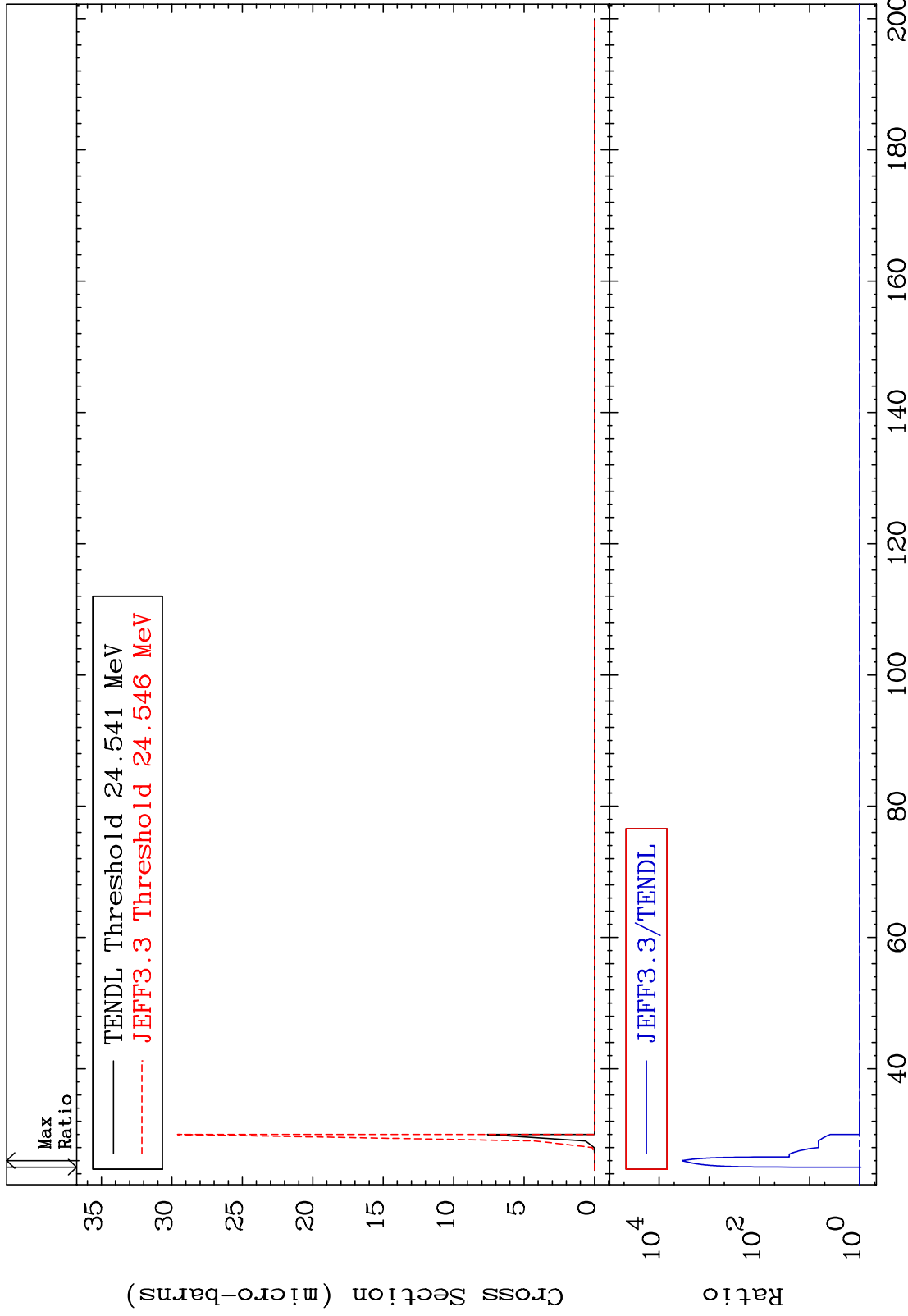
58-Ce-140
0.000 To 9999. %



MAT 5837

(n,3n) p
Cross Section

58-Ce-140
-5.720 To 9999. %



MAT 5837

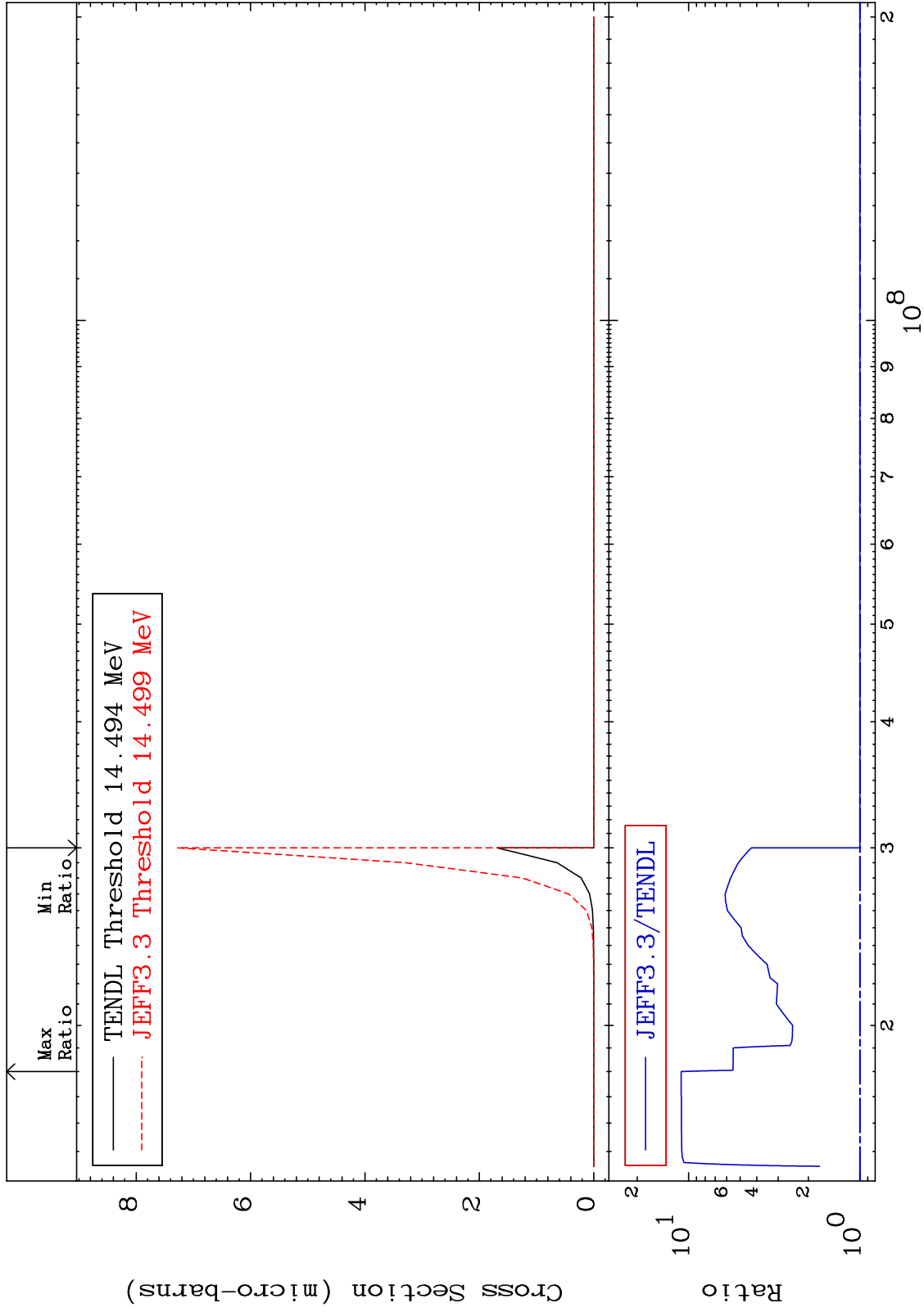
(n,2n) p

58-Ce-140

Cross Section

0.000

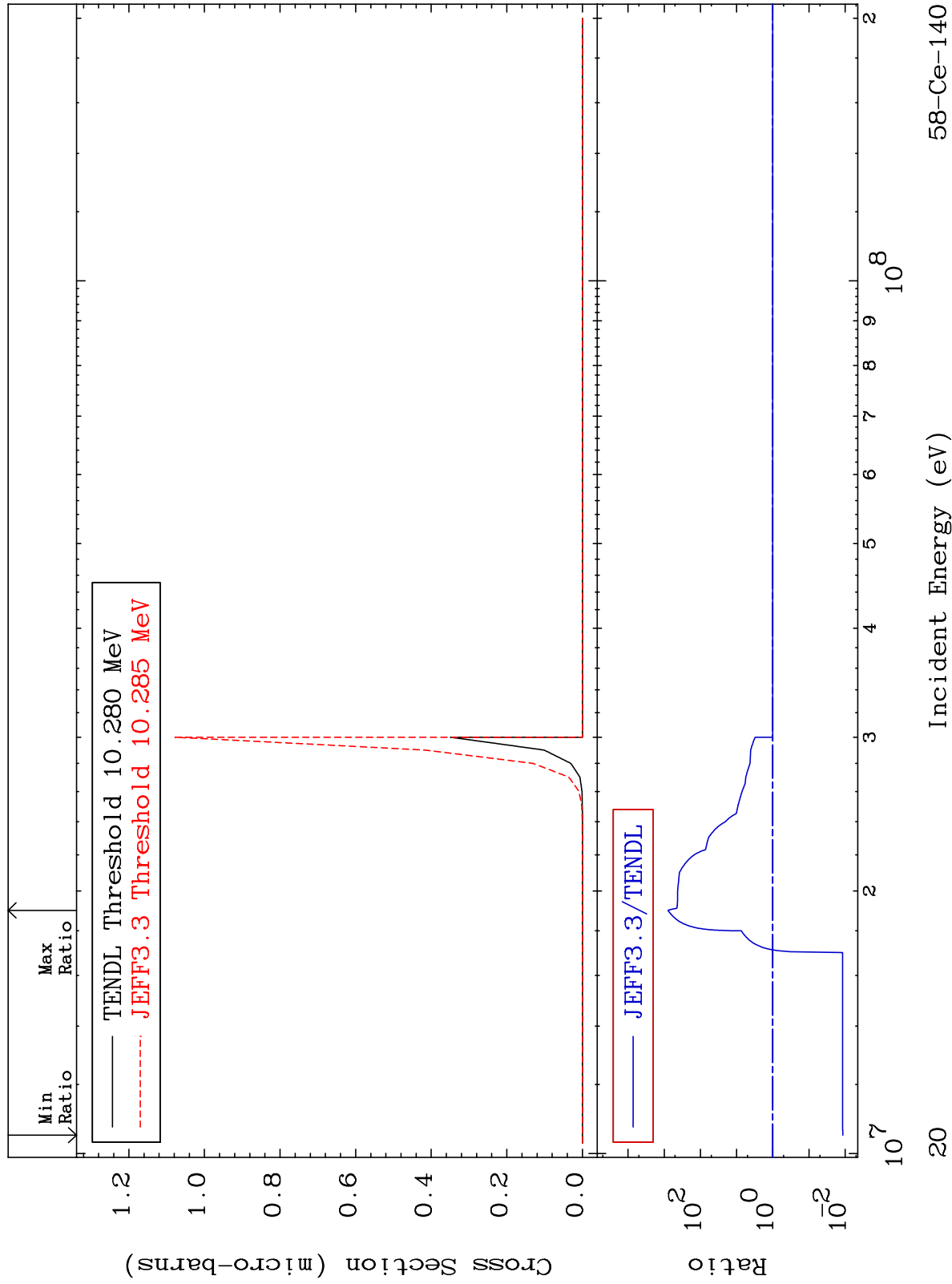
To 1006. %



MAT 5837

(n,n') p α
Cross Section

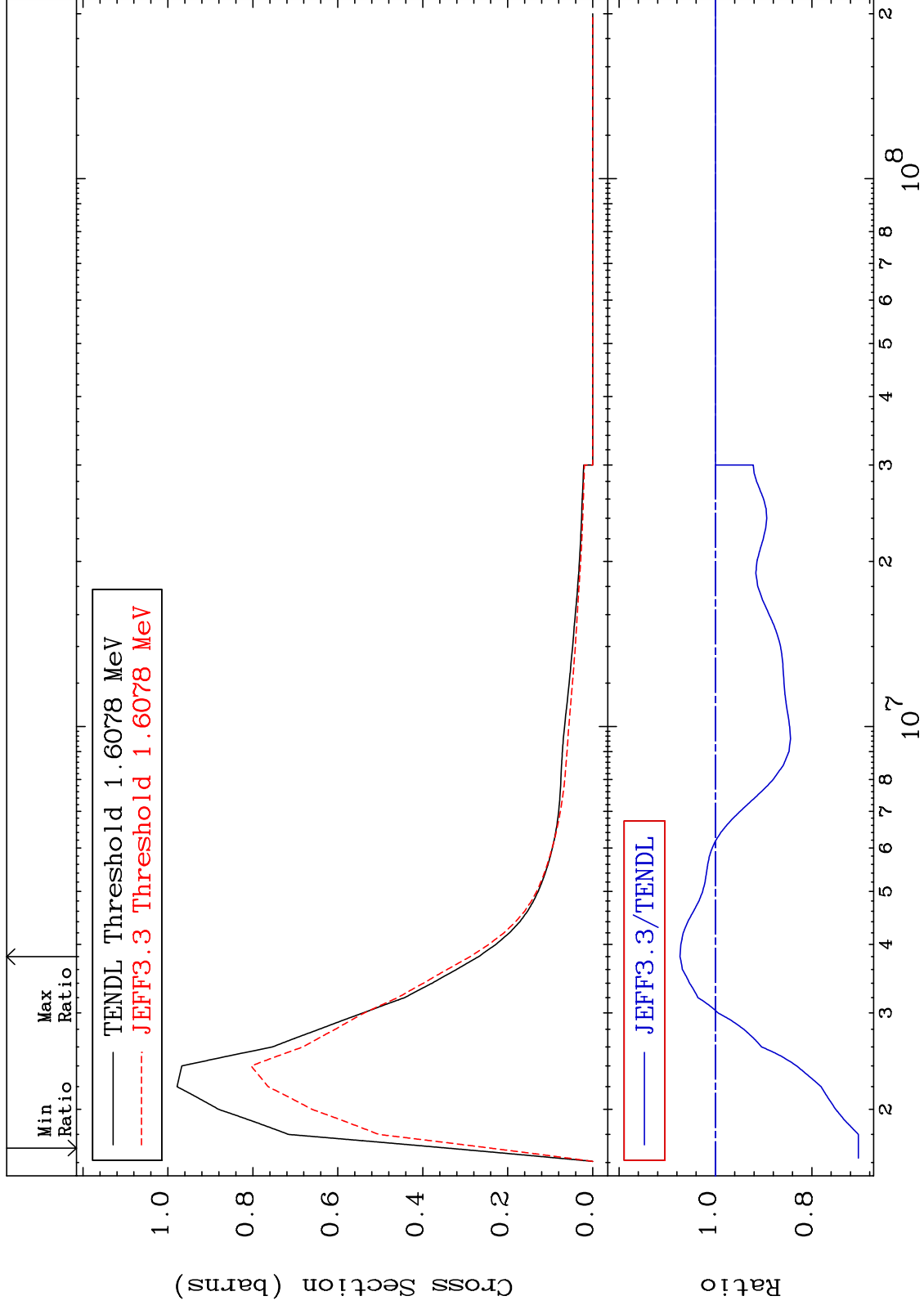
58-Ce-140
-98.84 To 9999. %



MAT 5837

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

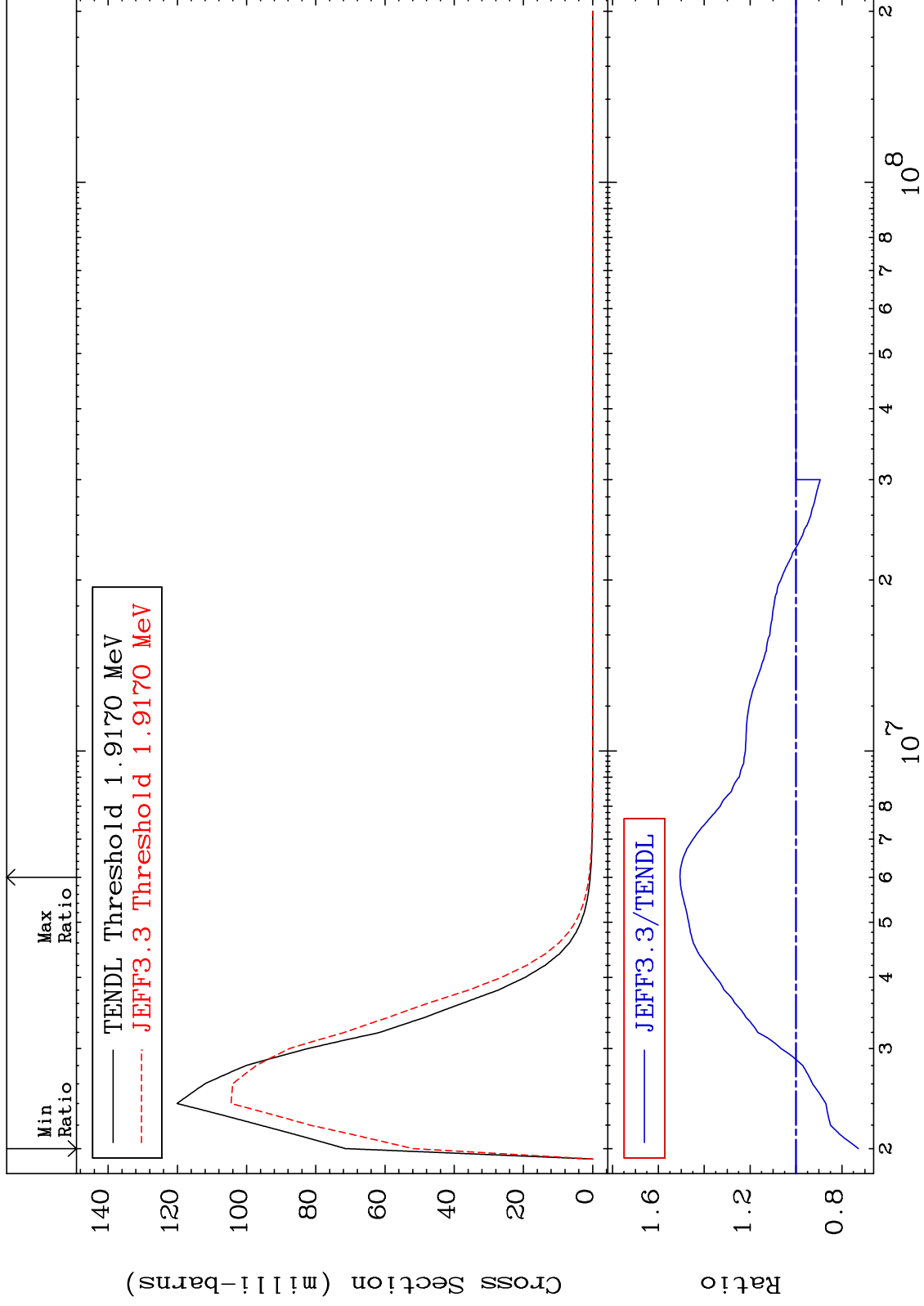
58-Ce-140
-29.65 To 7.353 %



MAT 5837

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

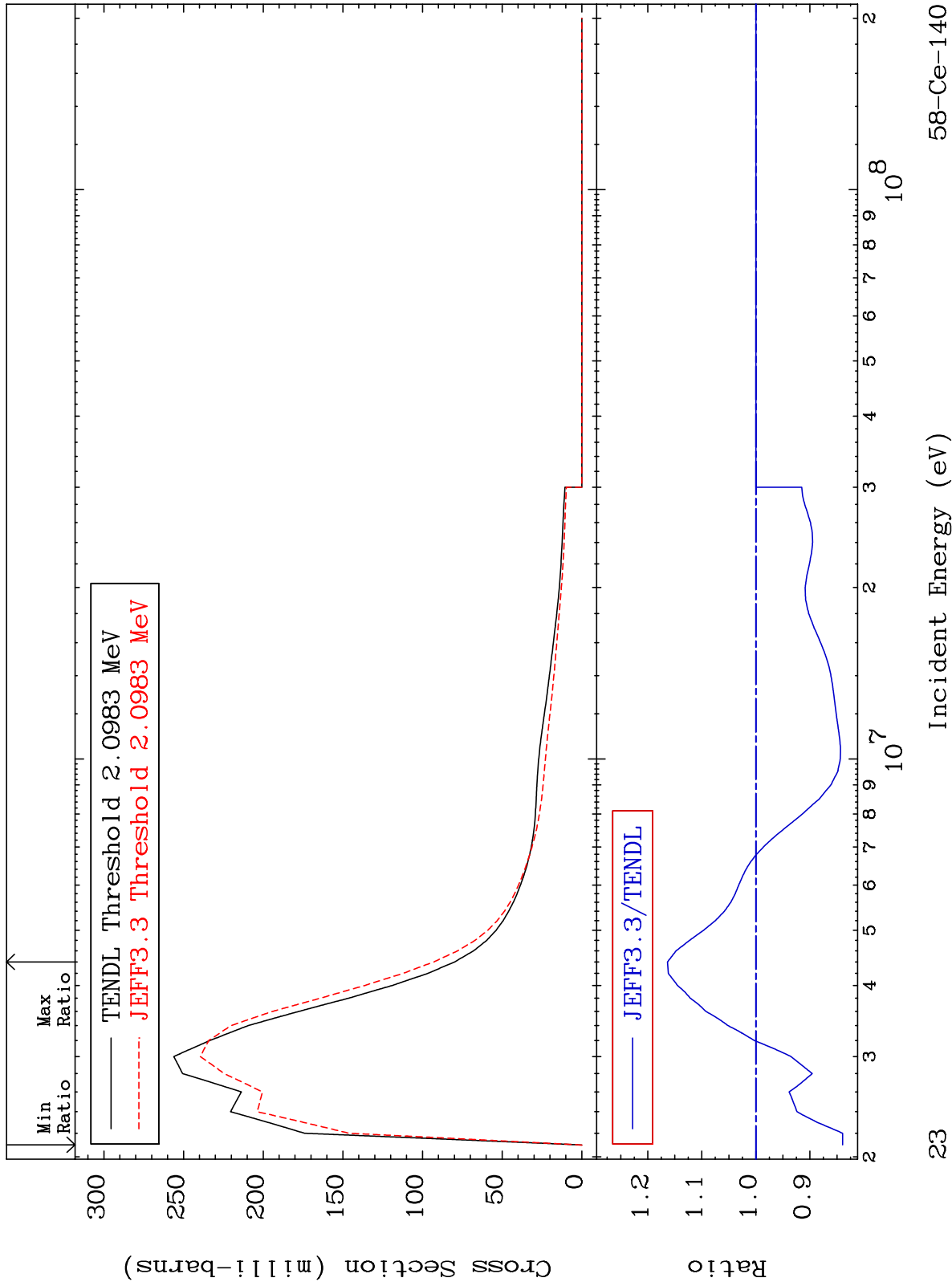
58-Ce-140
-27.19 To 50.55 %



MAT 5837

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

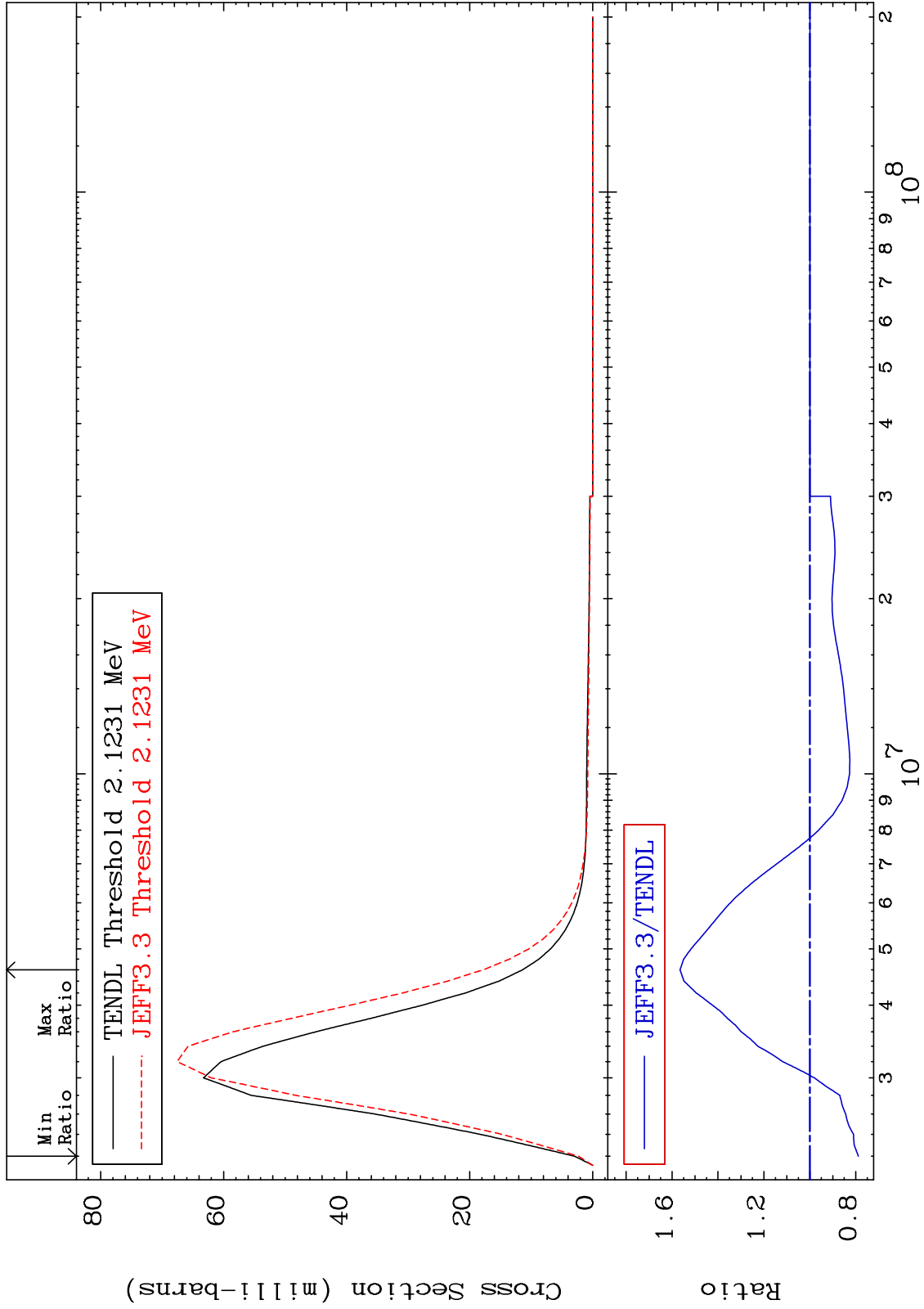
58-Ce-140
-16.06 To 16.34 %



MAT 5837

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

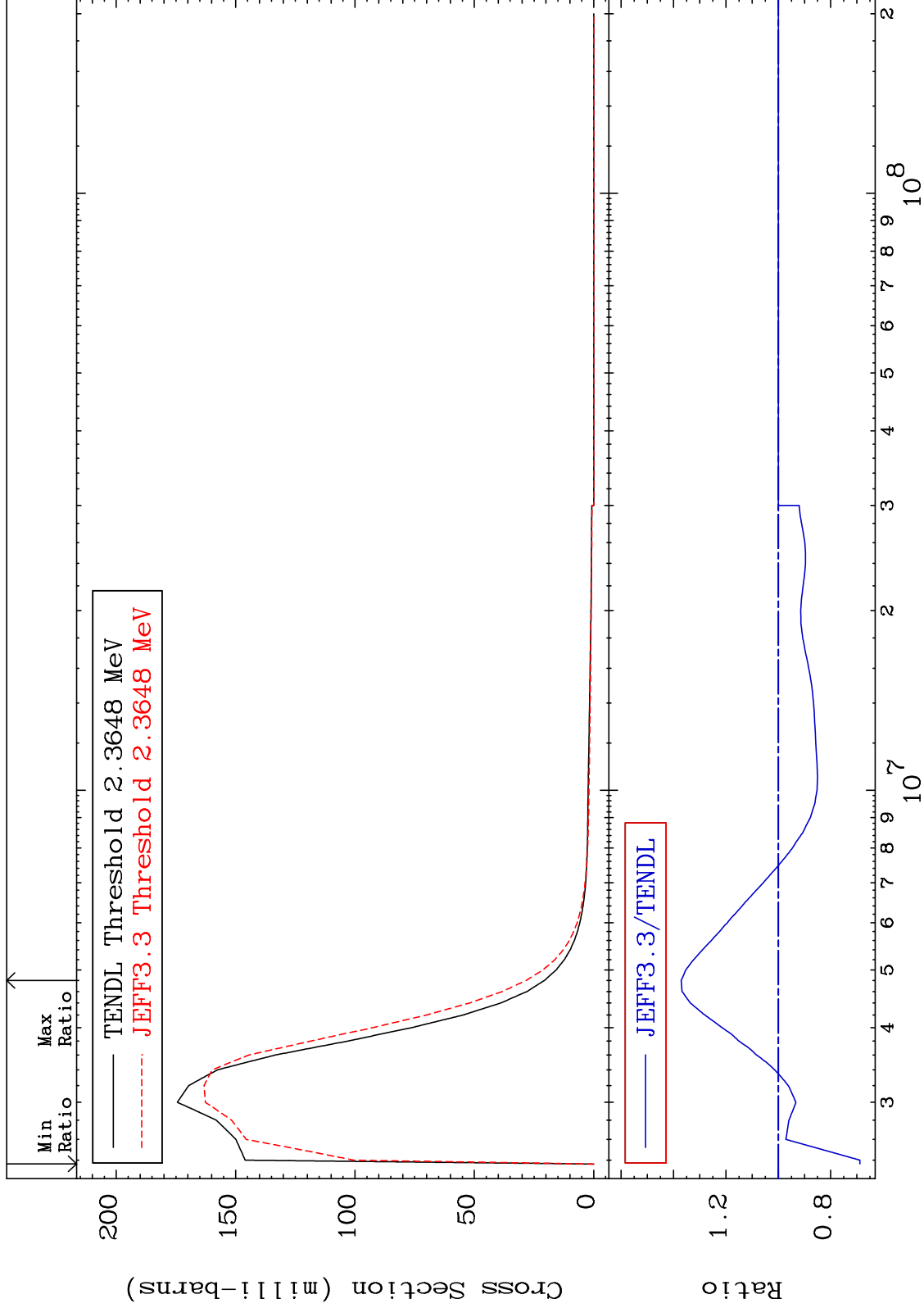
58-Ce-140
-21.15 To 56.54 %



MAT 5837

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

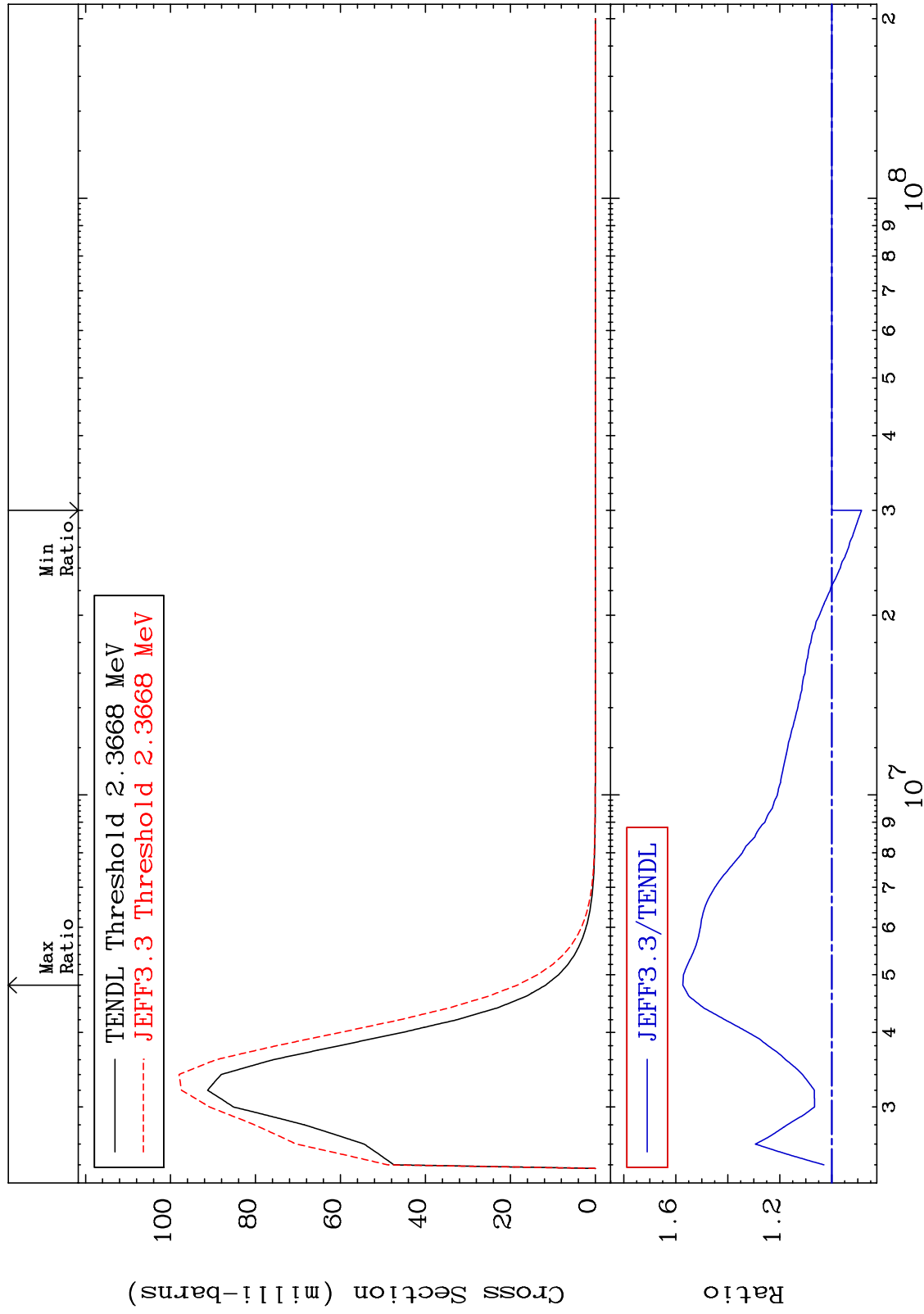
58-Ce-140
-31.16 To 37.07 %



MAT 5837

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

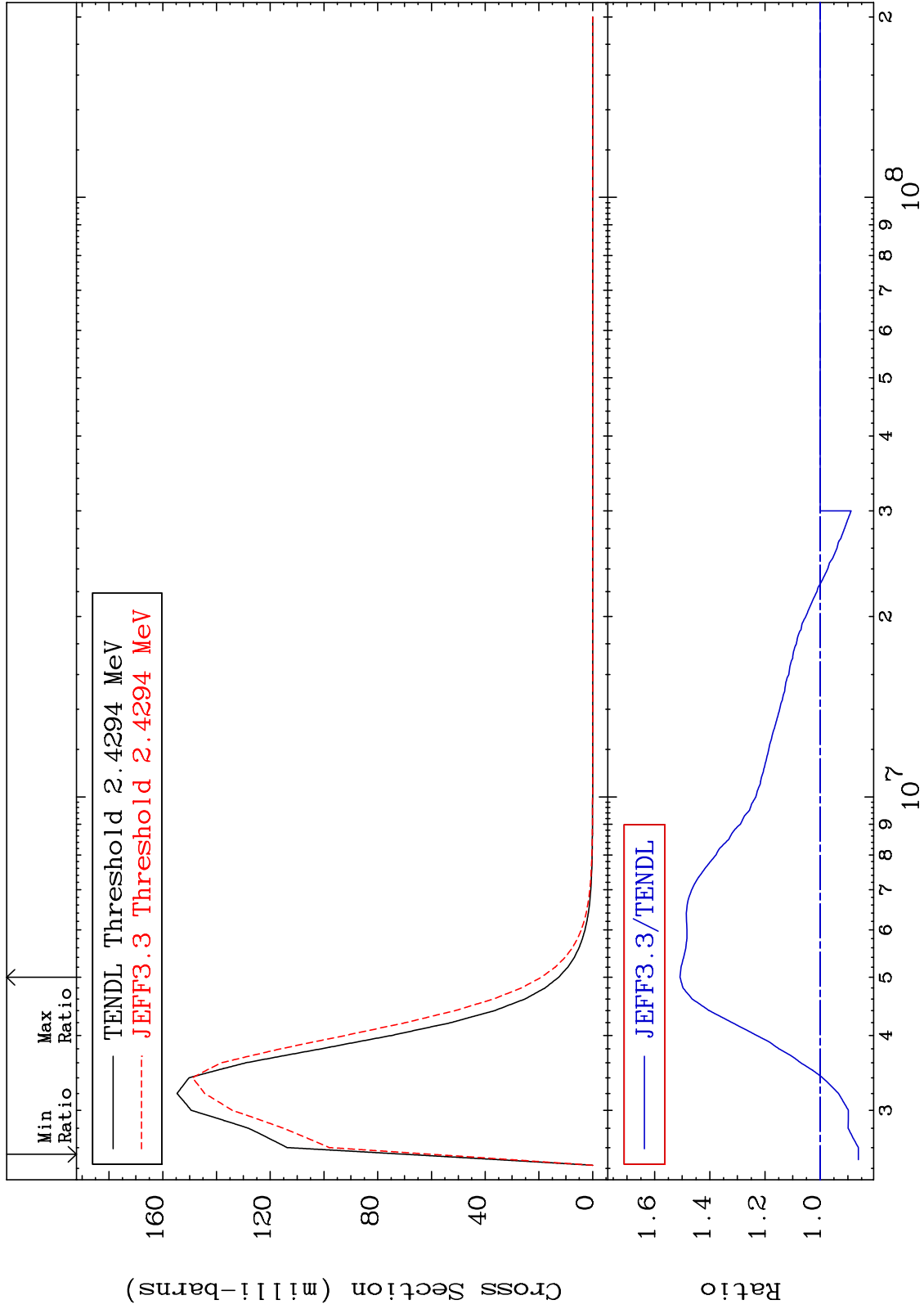
58-Ce-140
-11.45 To 57.27 %



MAT 5837

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

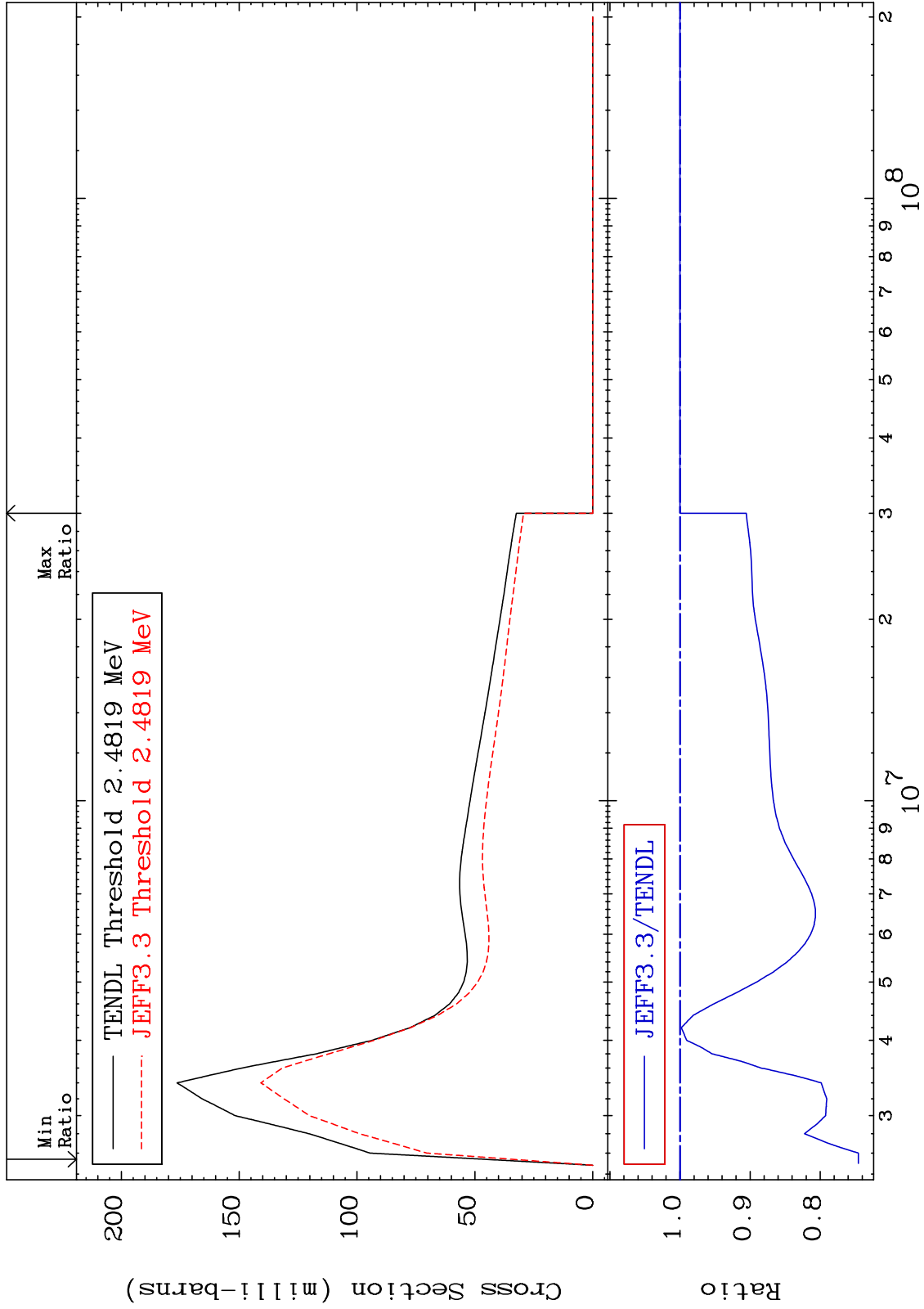
58-Ce-140
-13.84 To 50.80 %



MAT 5837

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

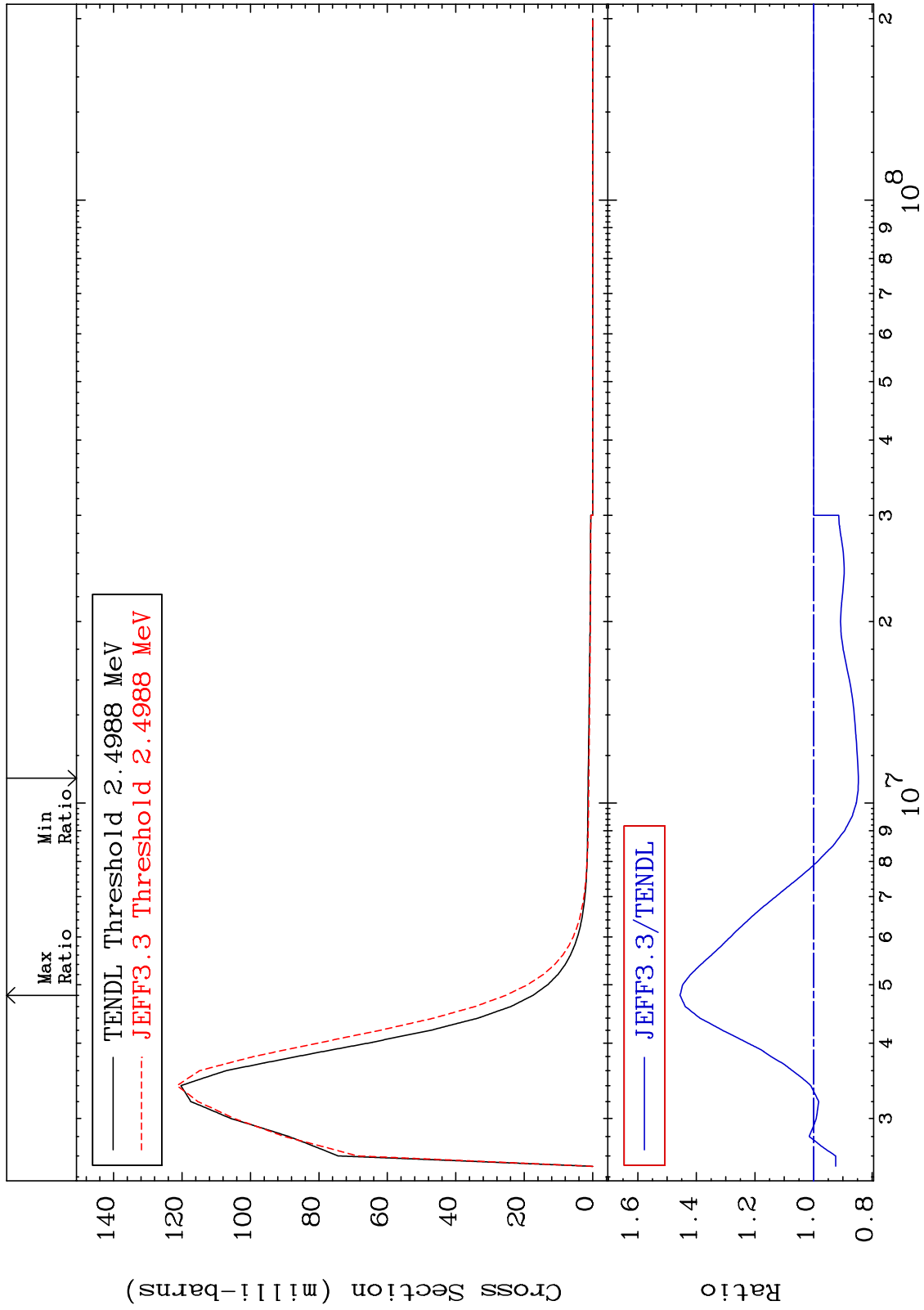
58-Ce-140
-25.46 To 0.000 %



MAT 5837

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

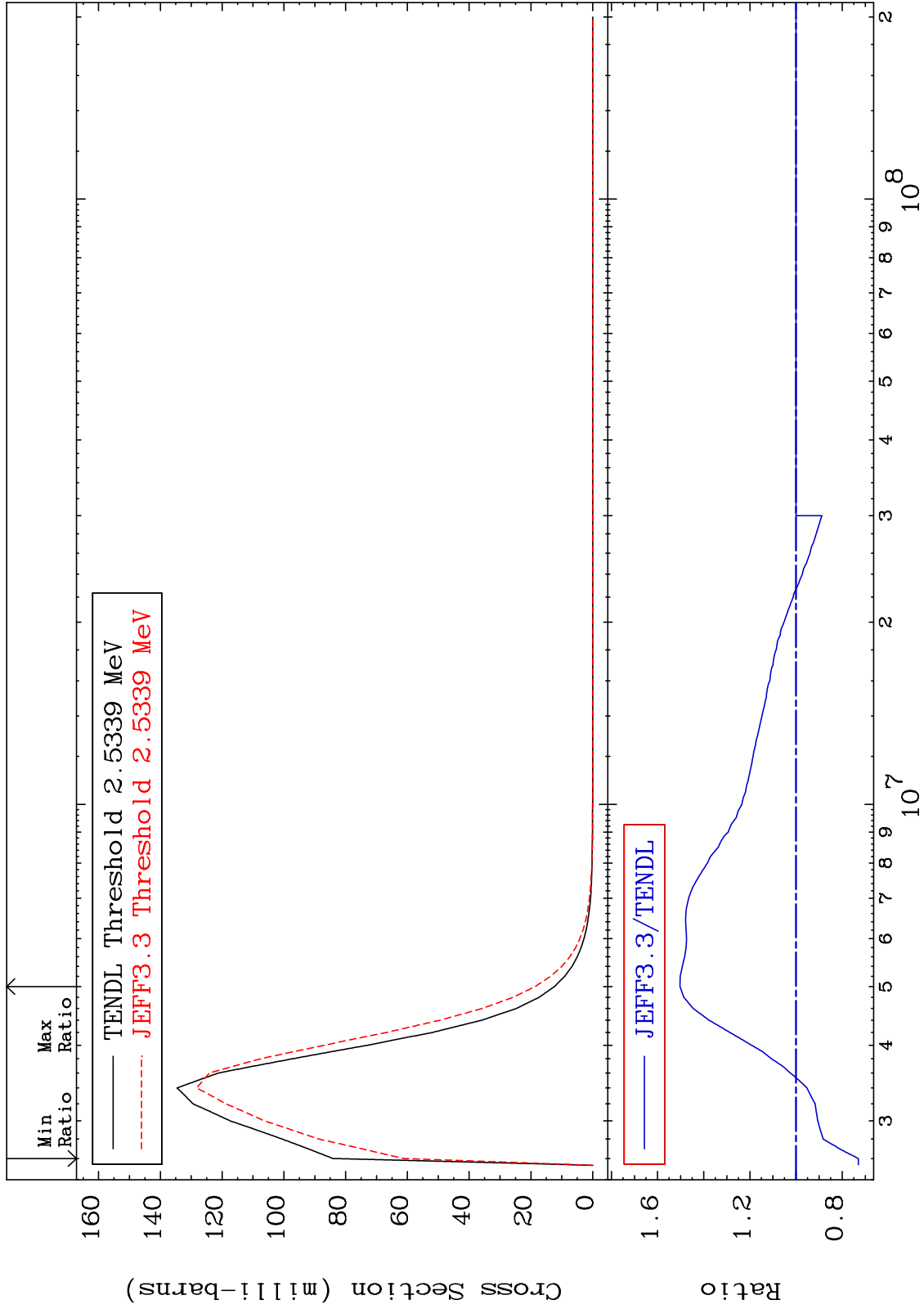
58-Ce-140
-15.29 To 45.59 %



MAT 5837

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

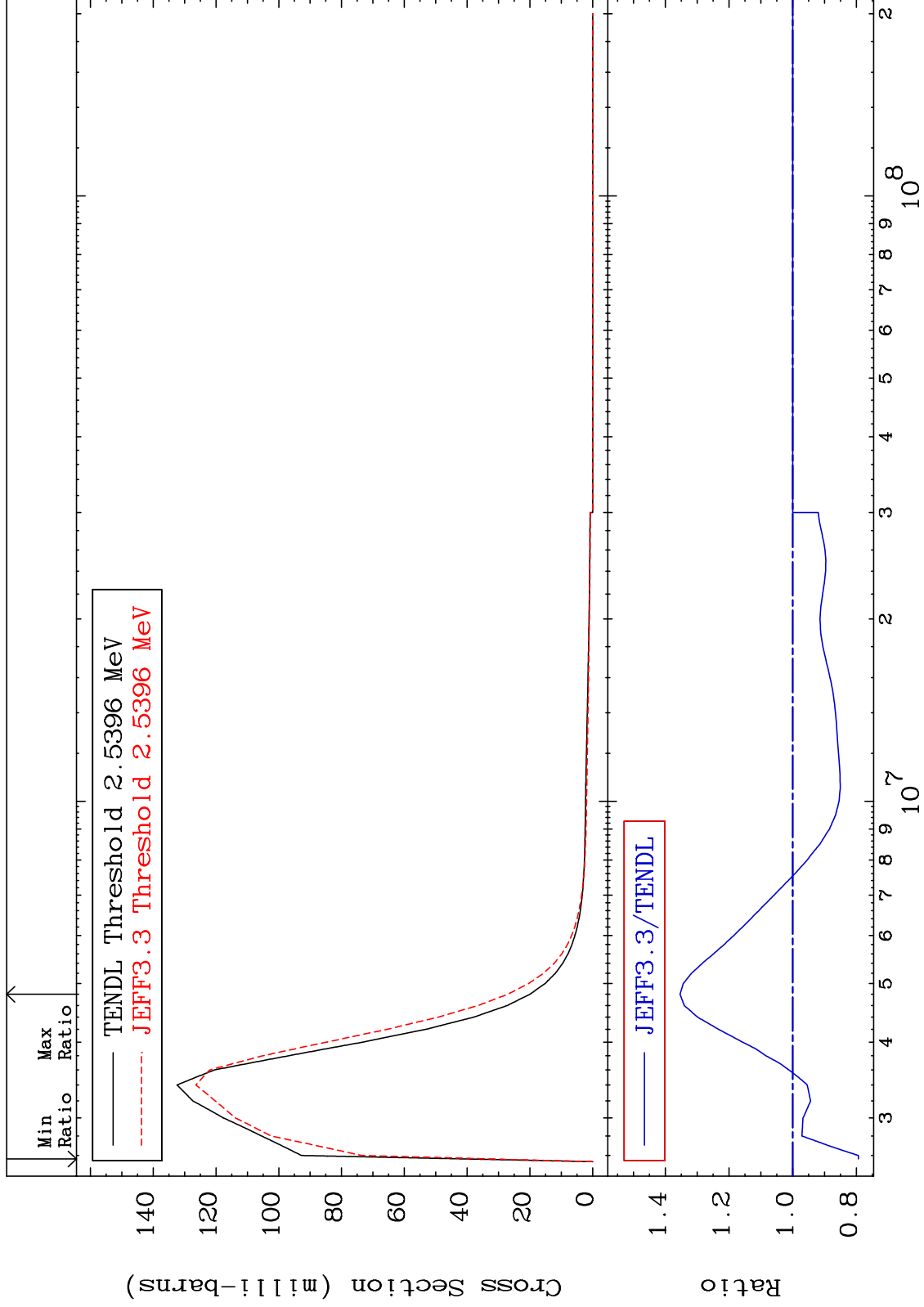
58-Ce-140
-27.04 To 50.27 %



MAT 5837

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

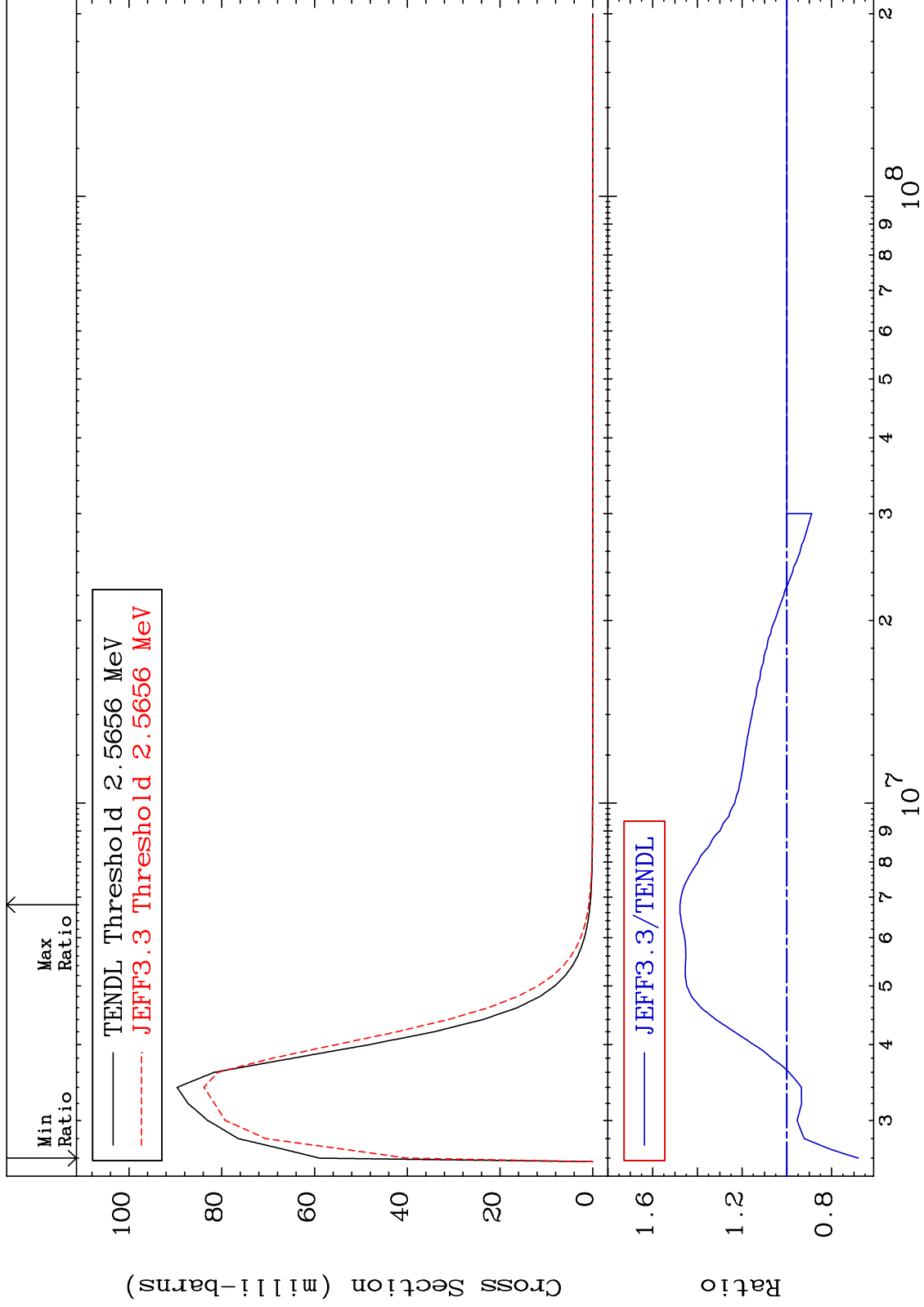
58-Ce-140
-20.61 To 35.42 %



MAT 5837

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

58-Ce-140
-31.96 To 47.77 %



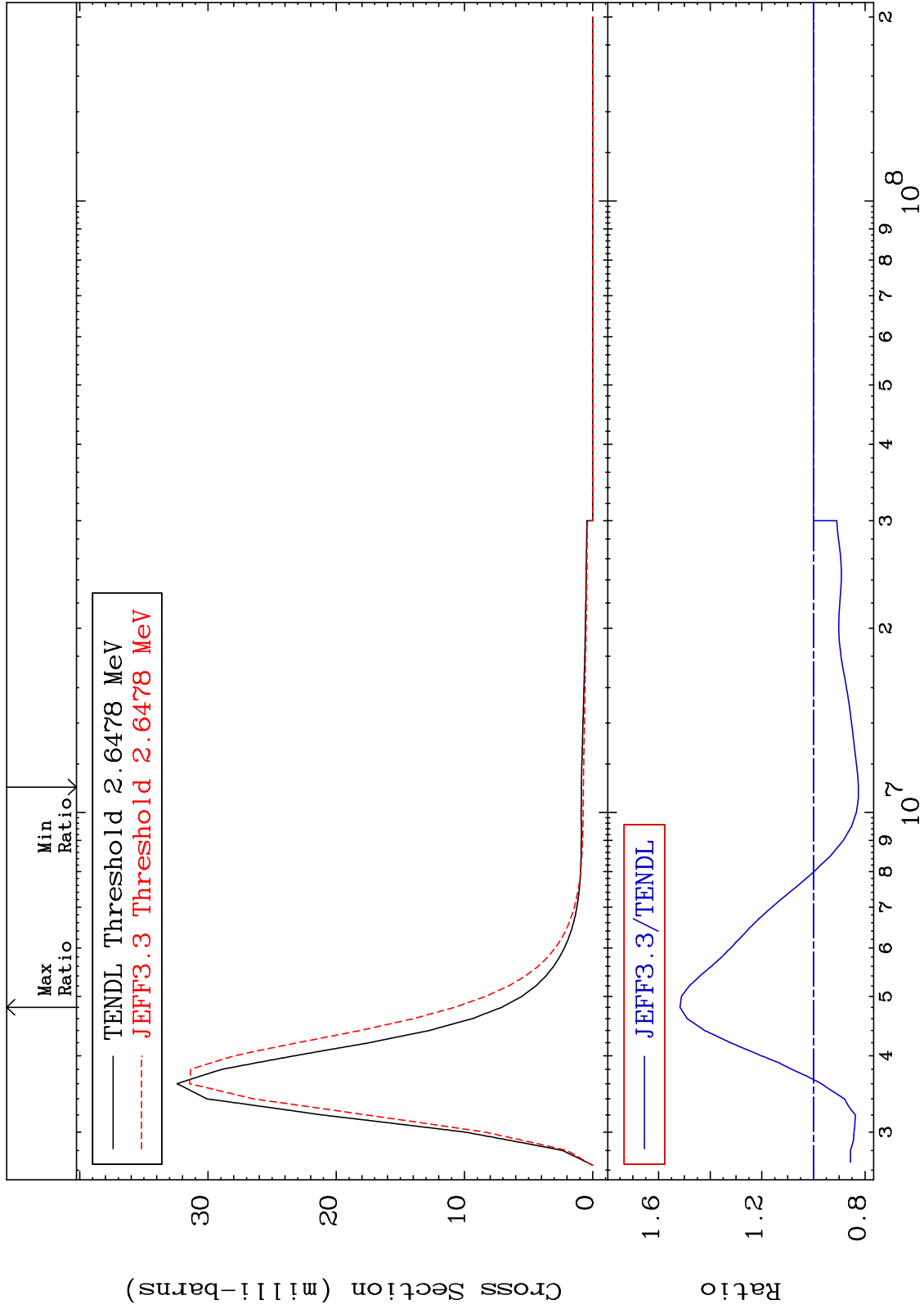
32

58-Ce-140

MAT 5837

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

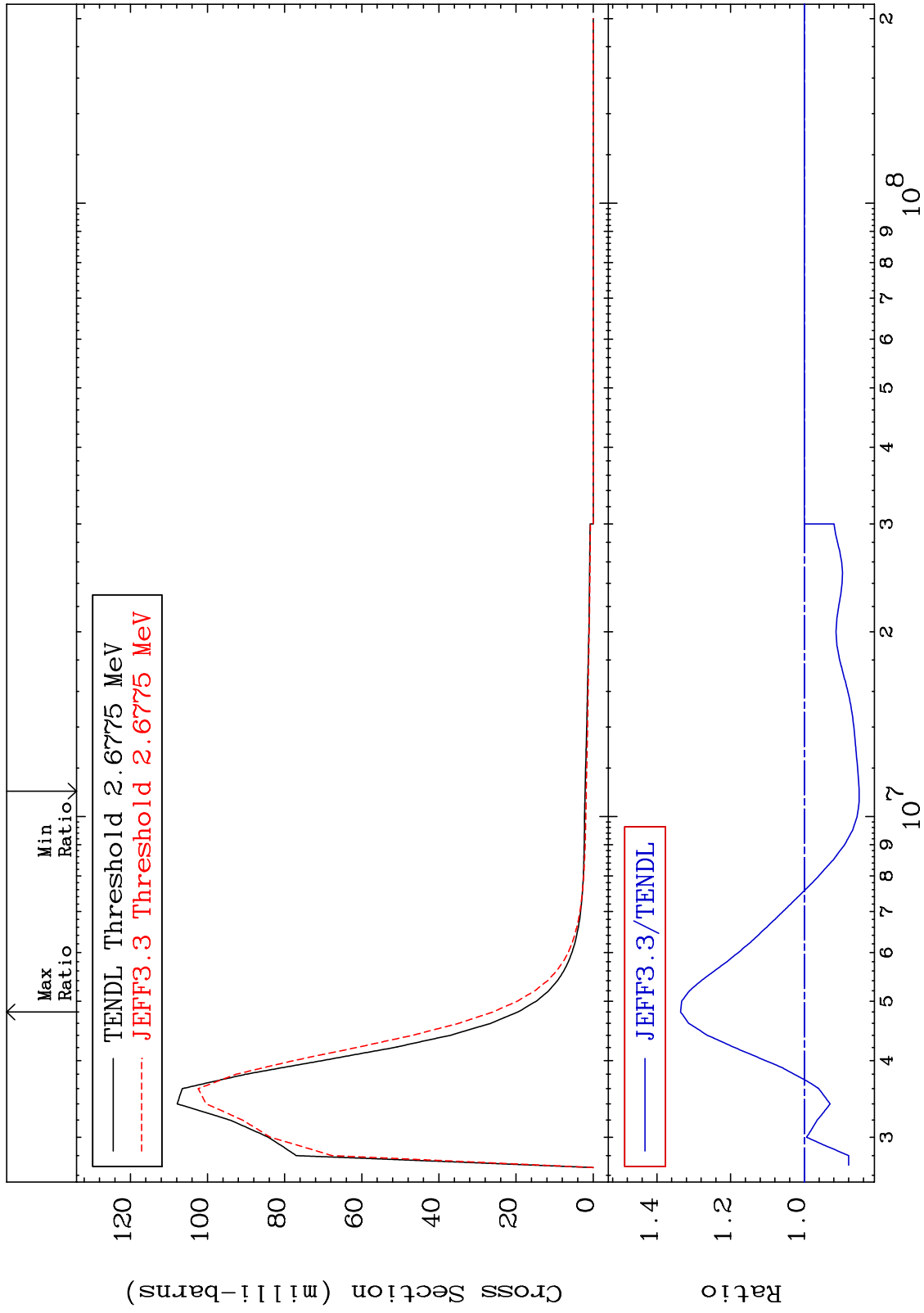
58-Ce-140
-17.43 To 51.70 %



MAT 5837

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

58-Ce-140
-14.86 To 33.56 %



34

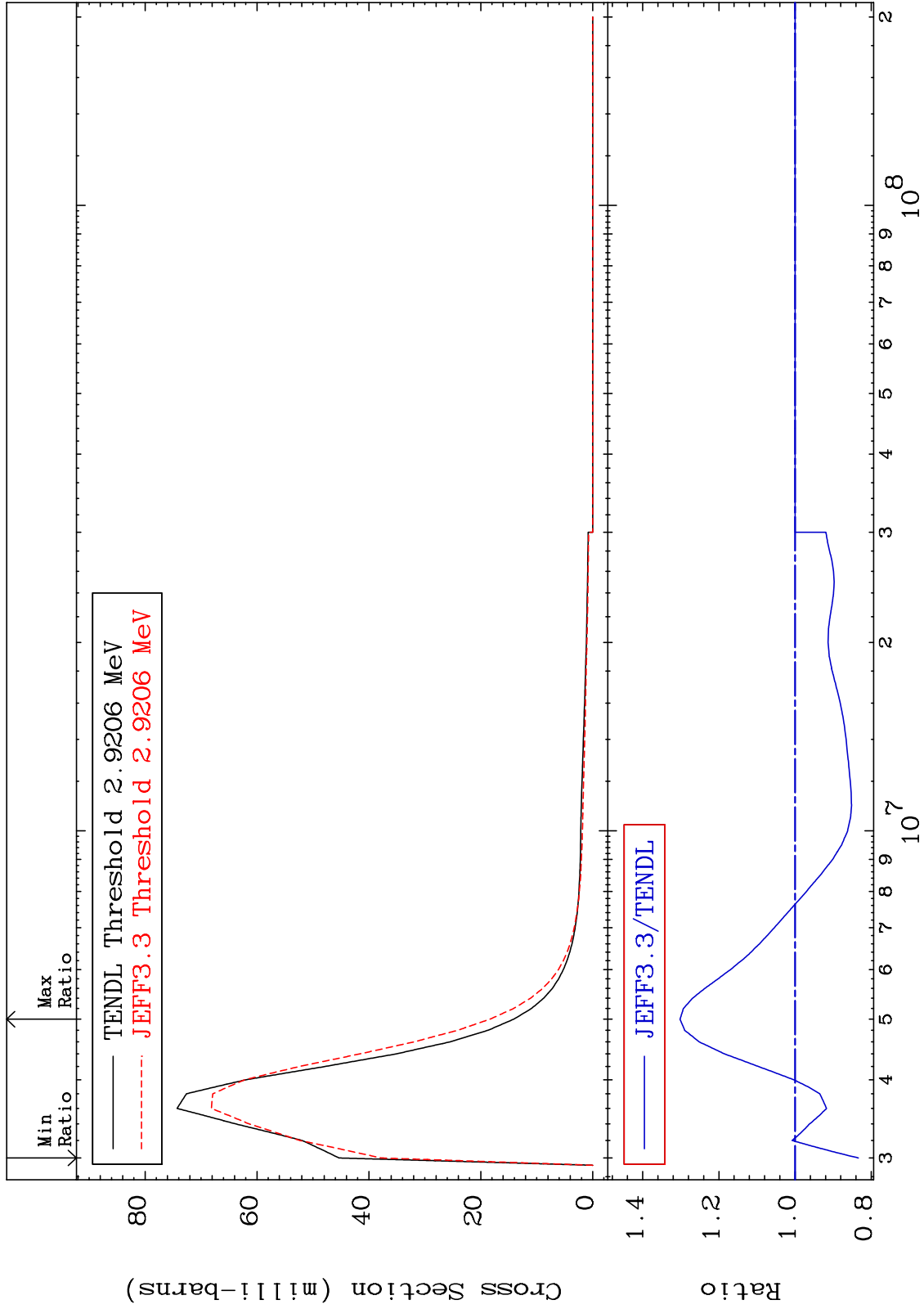
Incident Energy (eV)

58-Ce-140

MAT 5837

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

58-Ce-140
-16.63 To 30.21 %



35

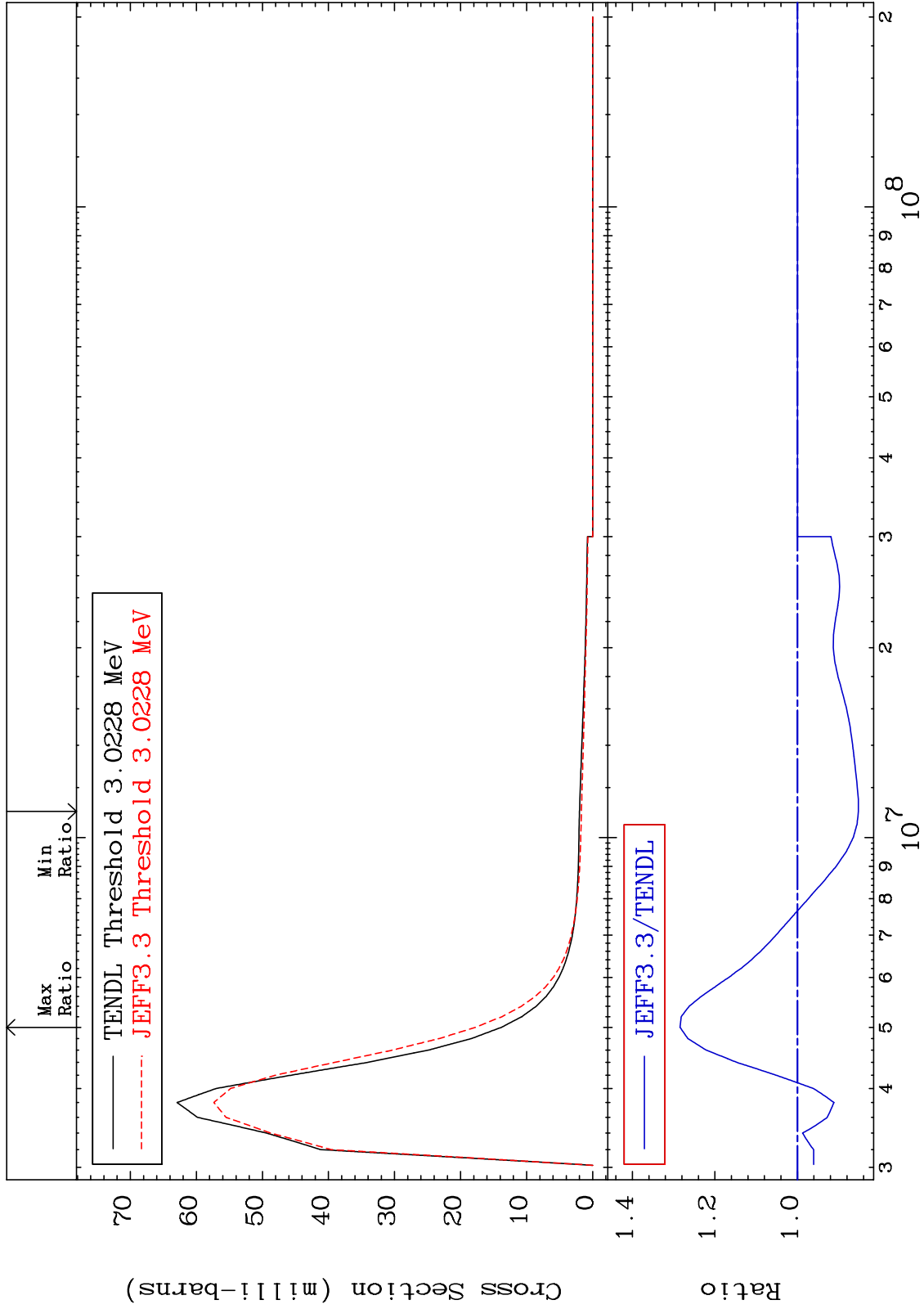
Incident Energy (eV)

58-Ce-140

MAT 5837

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

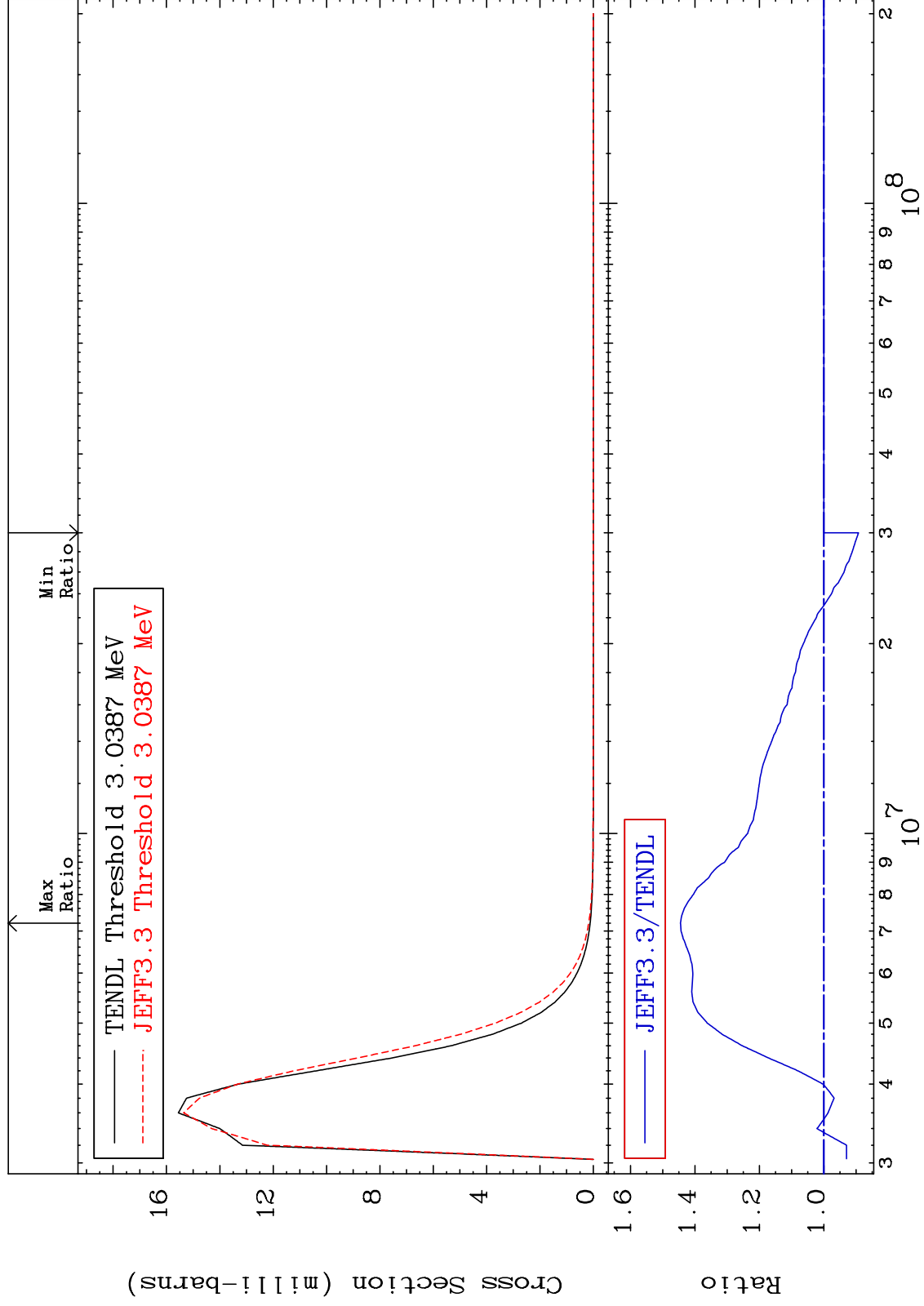
58-Ce-140
-14.77 To 28.46 %



MAT 5837

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

58-Ce-140
-10.74 To 44.49 %



37

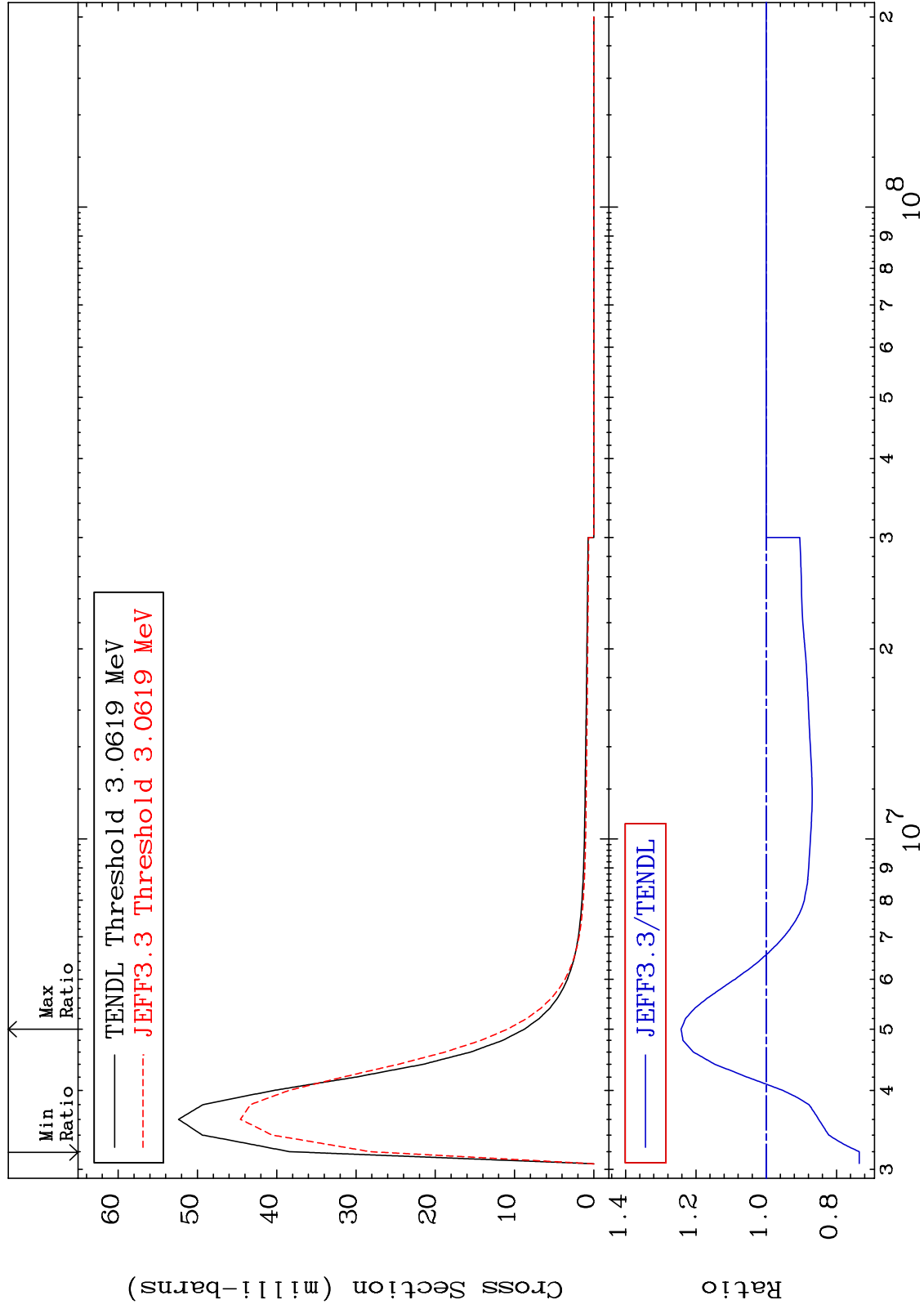
Incident Energy (eV)

58-Ce-140

MAT 5837

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

58-Ce-140
-26.47 To 24.25 %



38

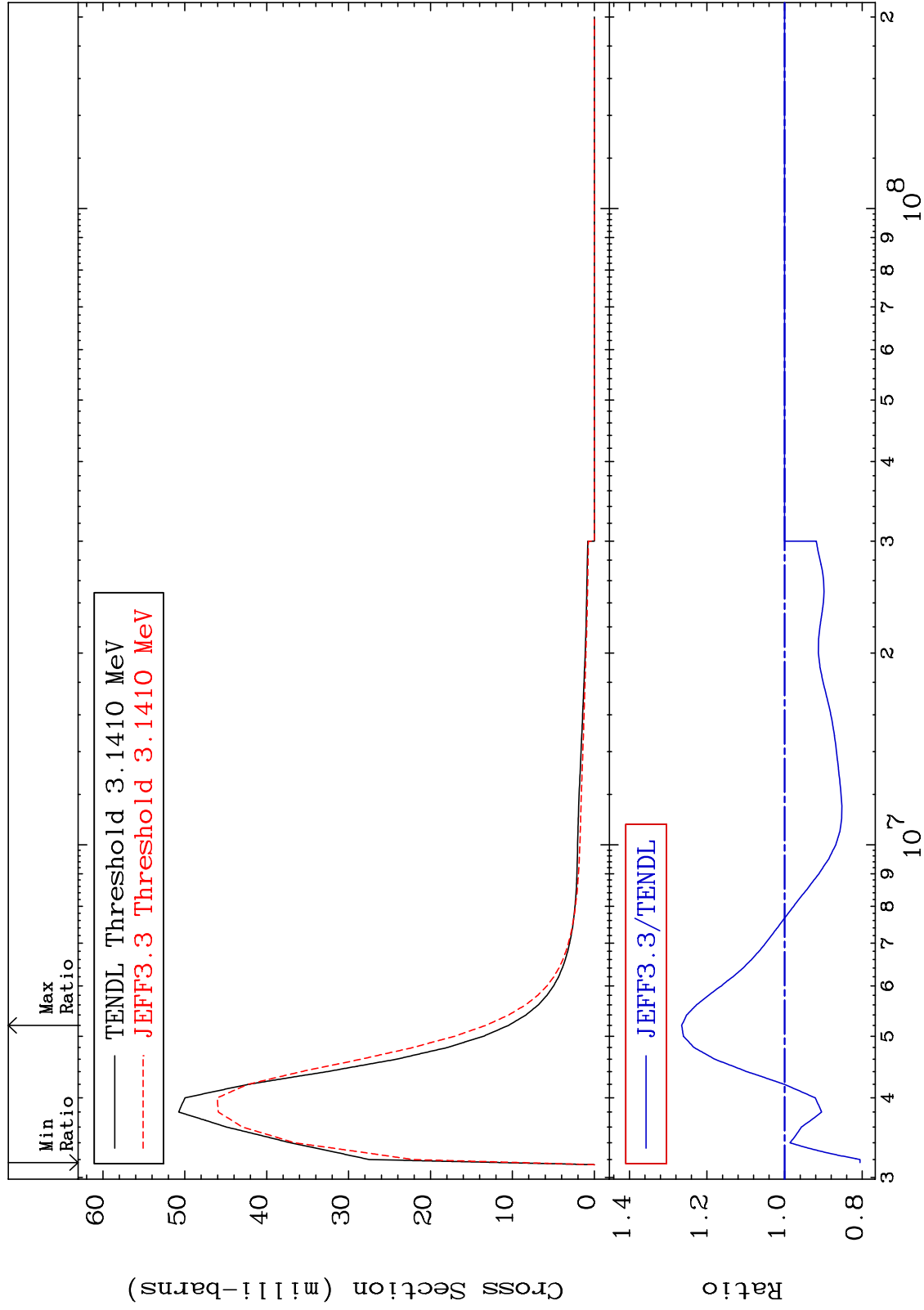
Incident Energy (eV)

58-Ce-140

MAT 5837

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

58-Ce-140
-19.44 To 26.53 %



39

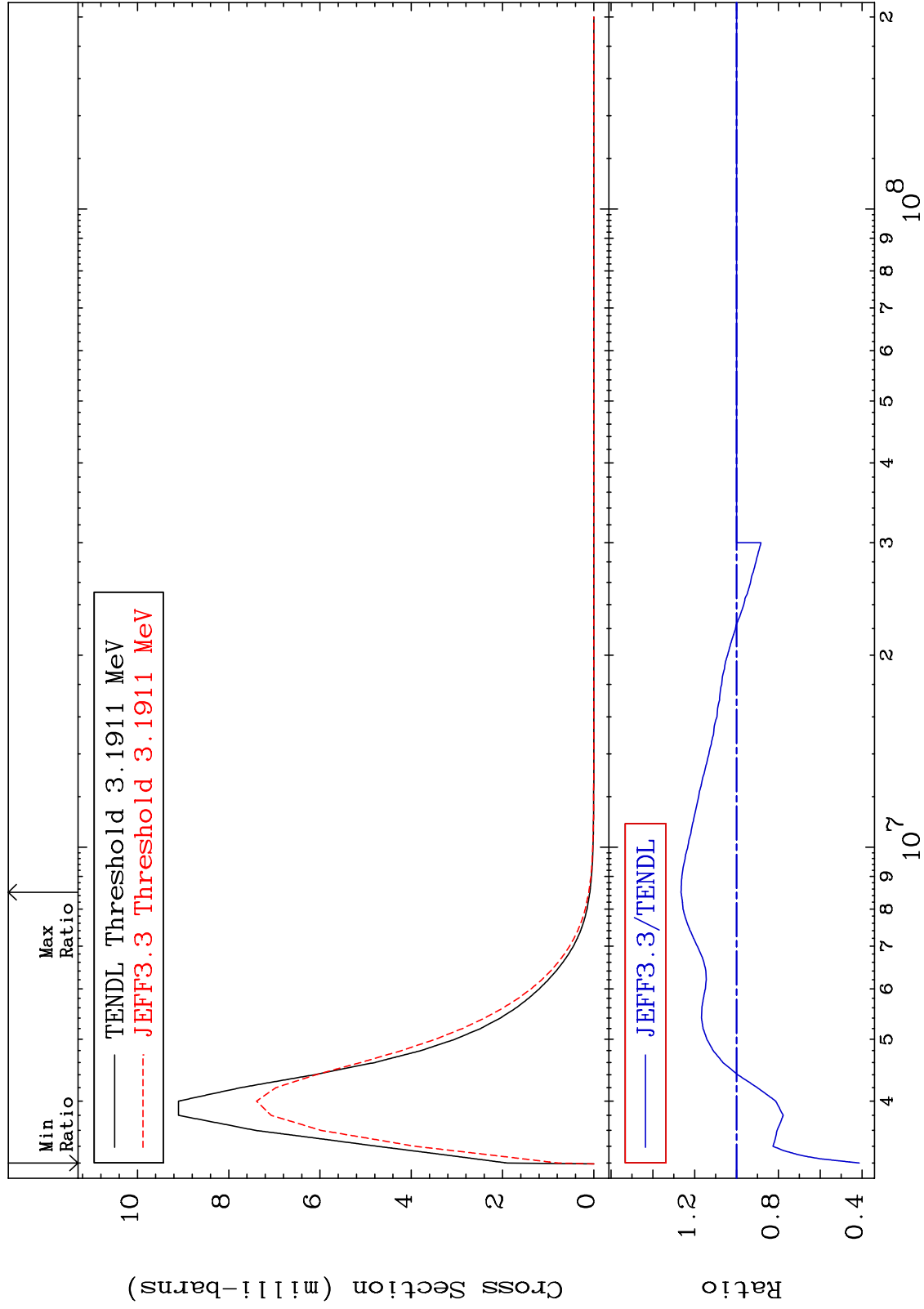
Incident Energy (eV)

58-Ce-140

MAT 5837

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

58-Ce-140
-58.69 To 26.52 %



40

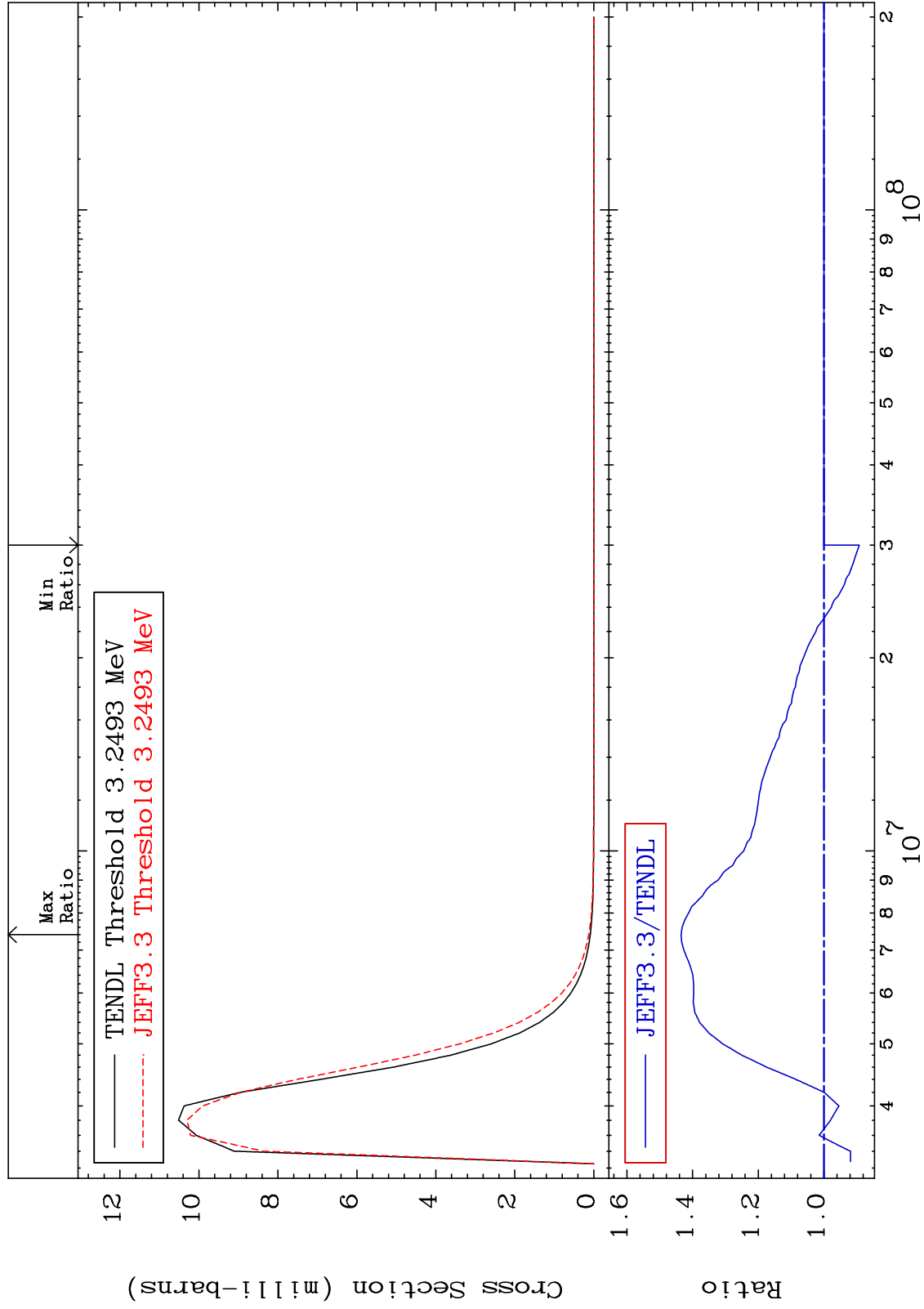
Incident Energy (eV)

58-Ce-140

MAT 5837

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

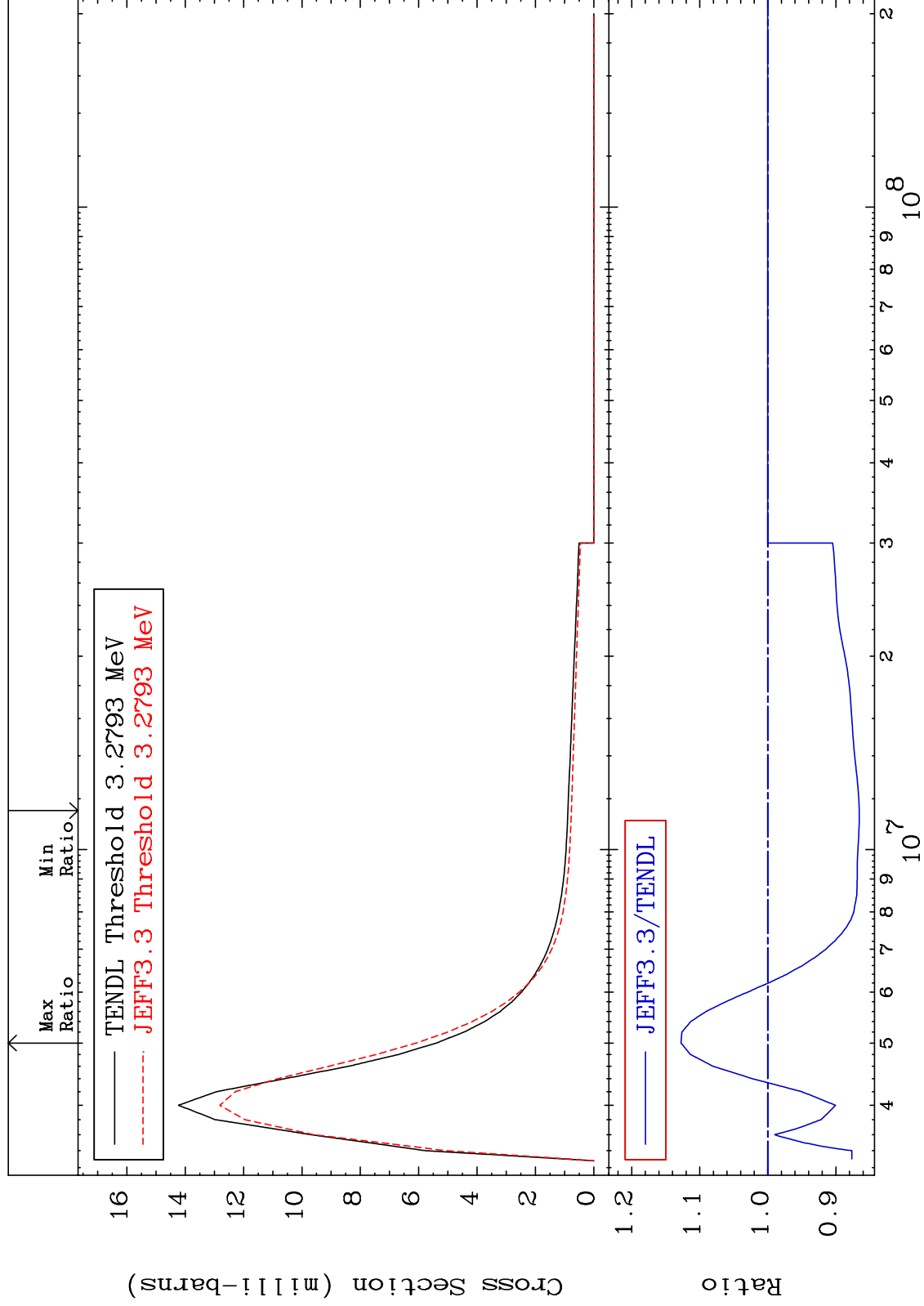
58-Ce-140
-10.79 To 43.52 %



MAT 5837

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

58-Ce-140
-13.44 To 12.75 %



42

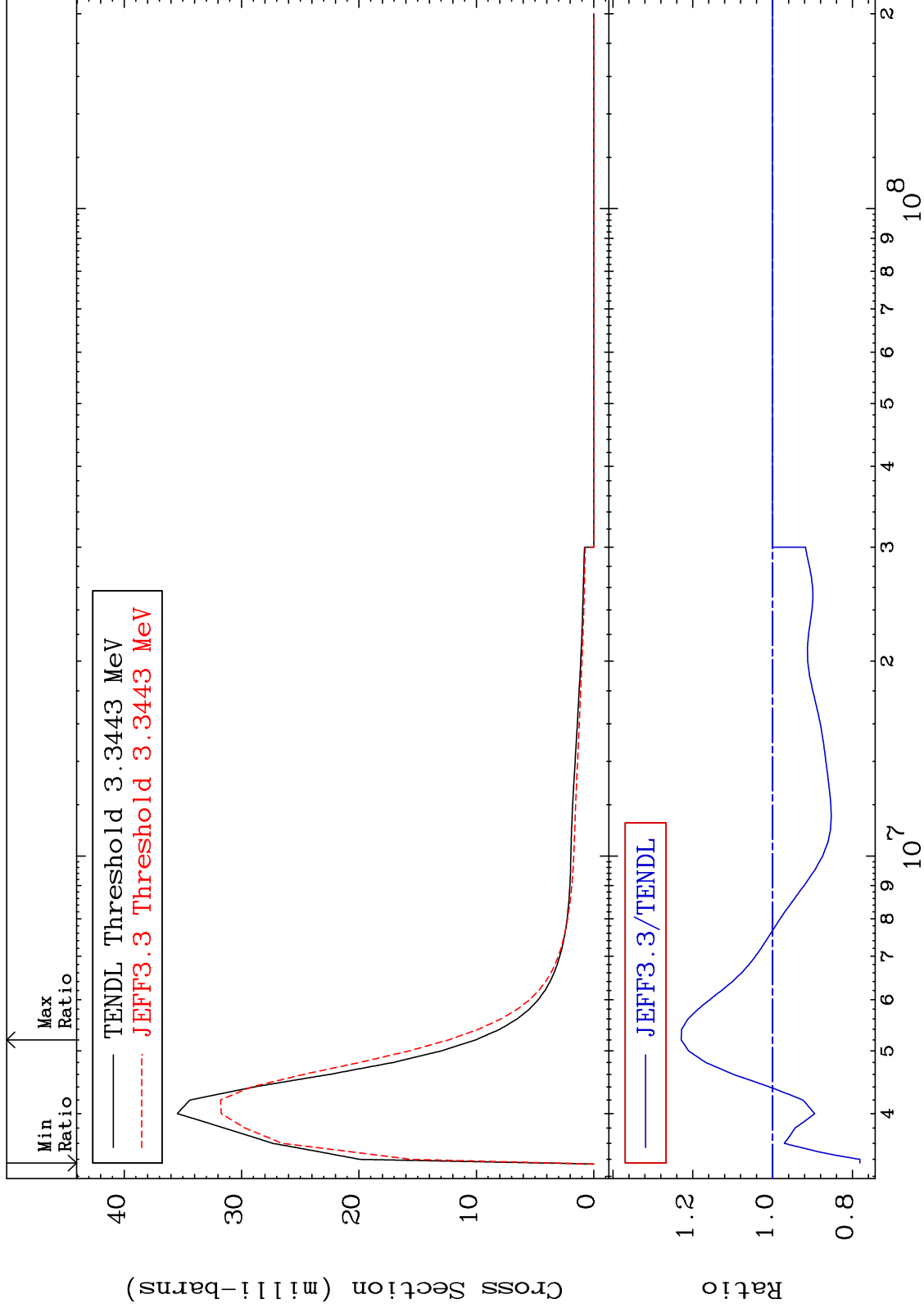
Incident Energy (eV)

58-Ce-140

MAT 5837

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

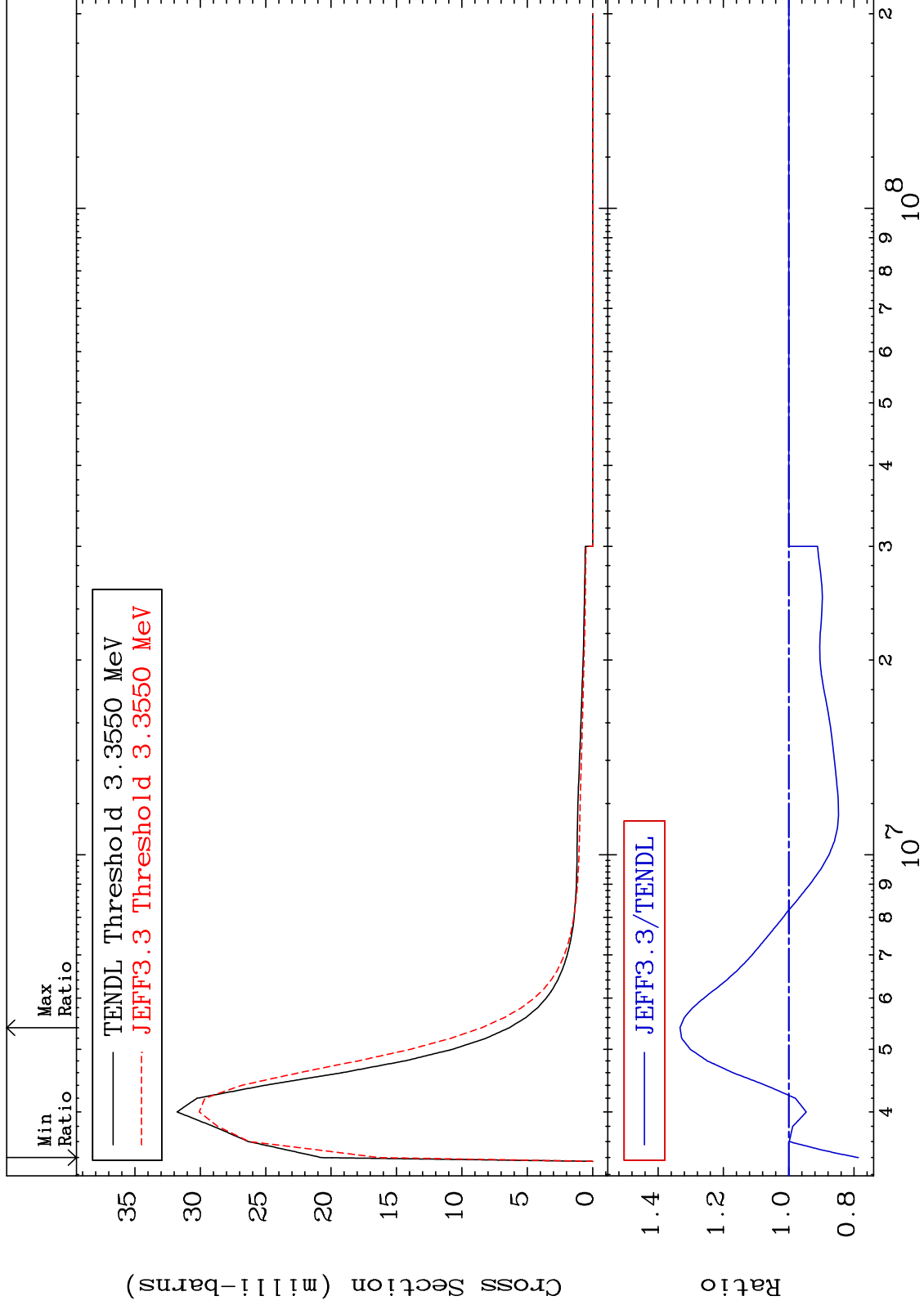
58-Ce-140
-21.88 To 22.89 %



MAT 5837

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

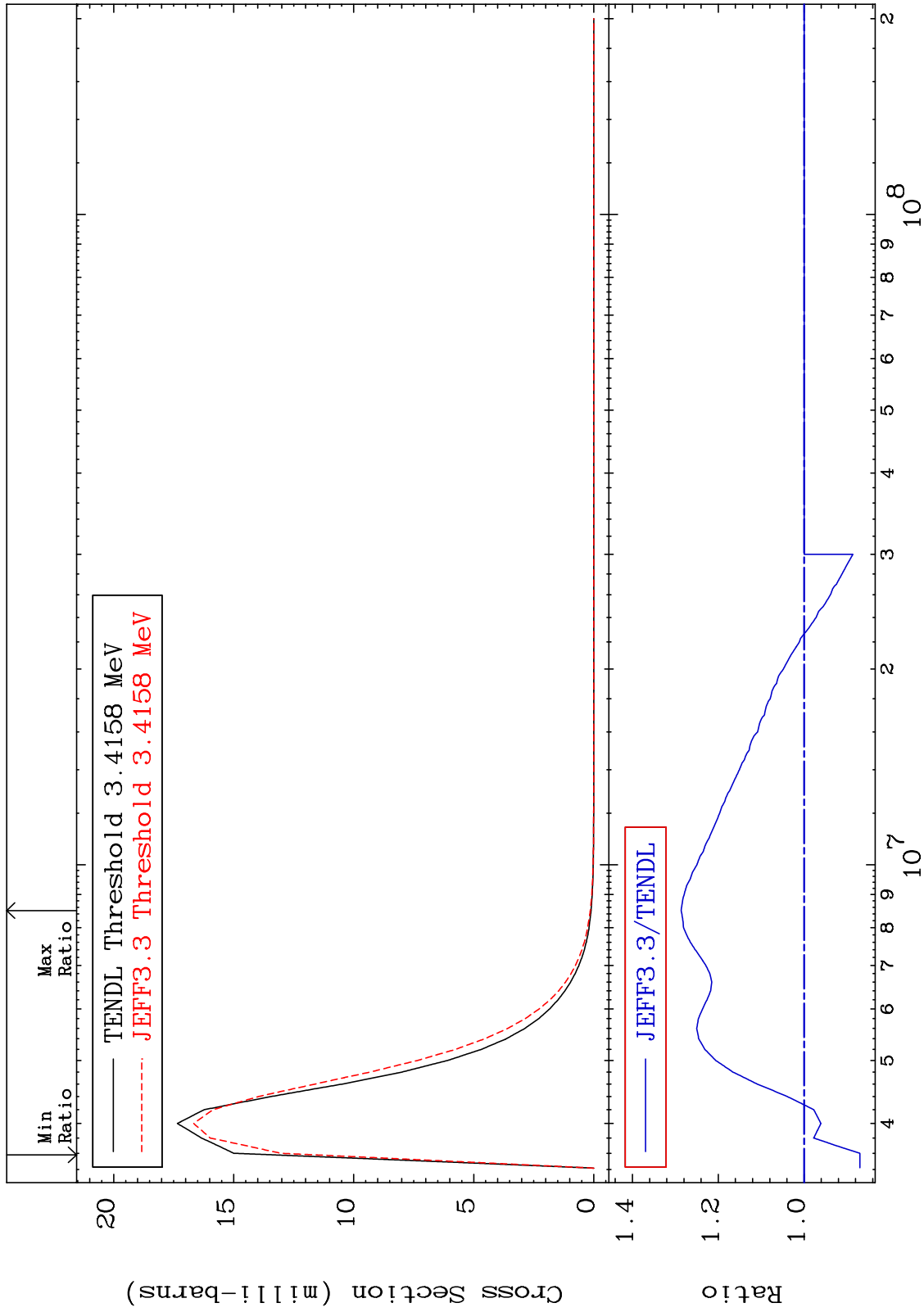
58-Ce-140
-21.32 To 33.29 %



MAT 5837

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

58-Ce-140
-13.01 To 28.63 %



45

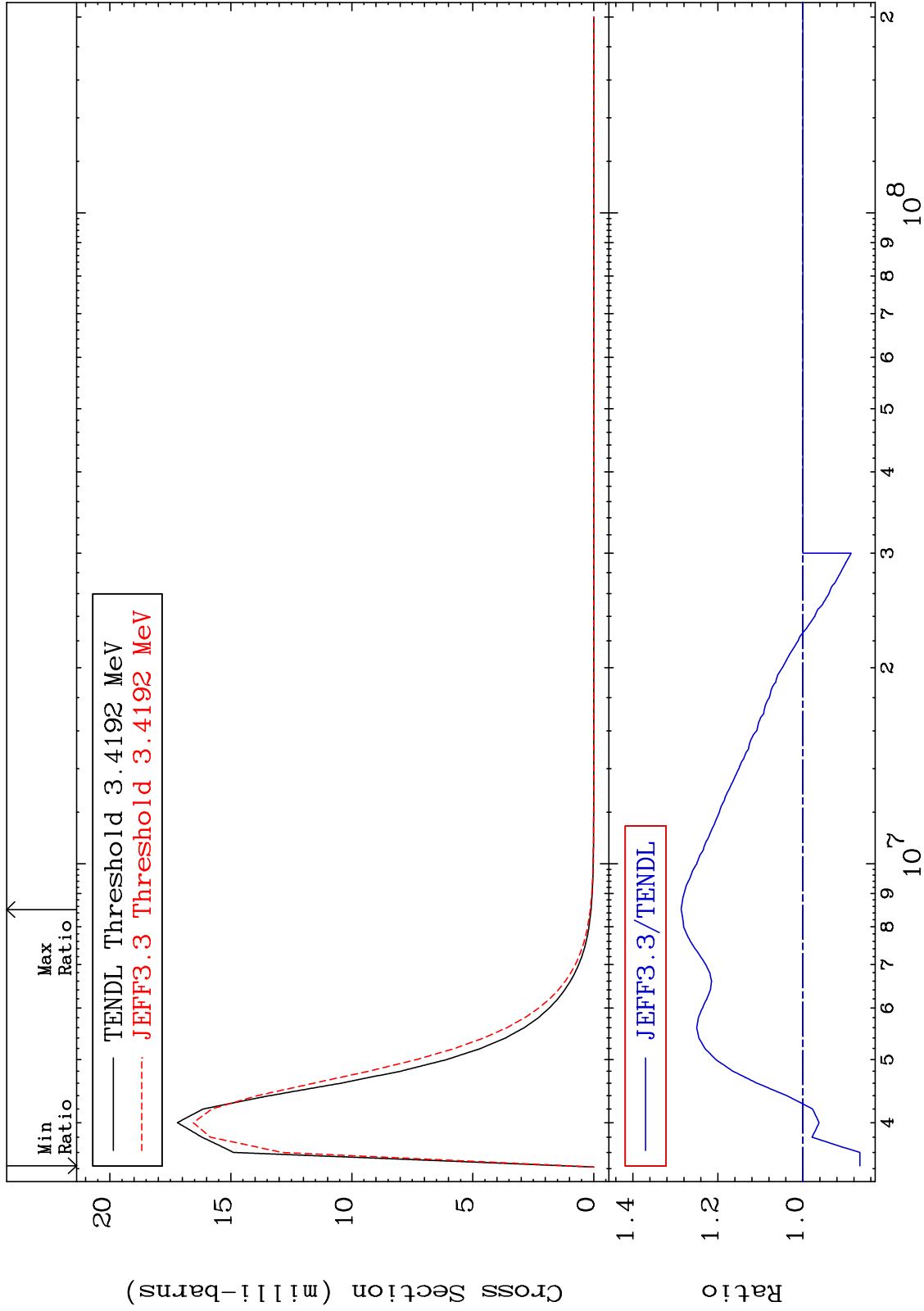
Incident Energy (eV)

58-Ce-140

MAT 5837

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

58-Ce-140
-13.42 To 28.63 %



46

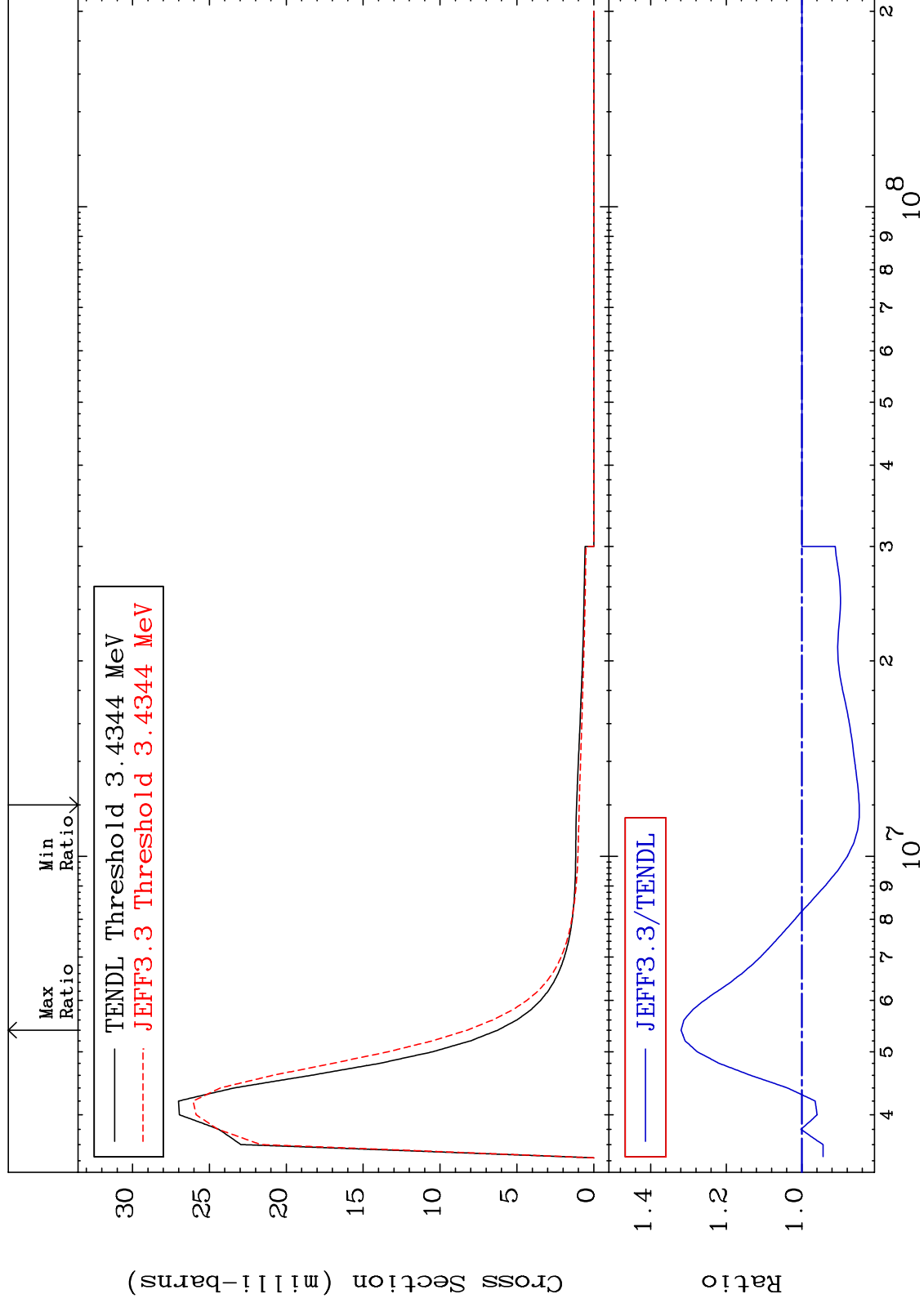
Incident Energy (eV)

58-Ce-140

MAT 5837

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

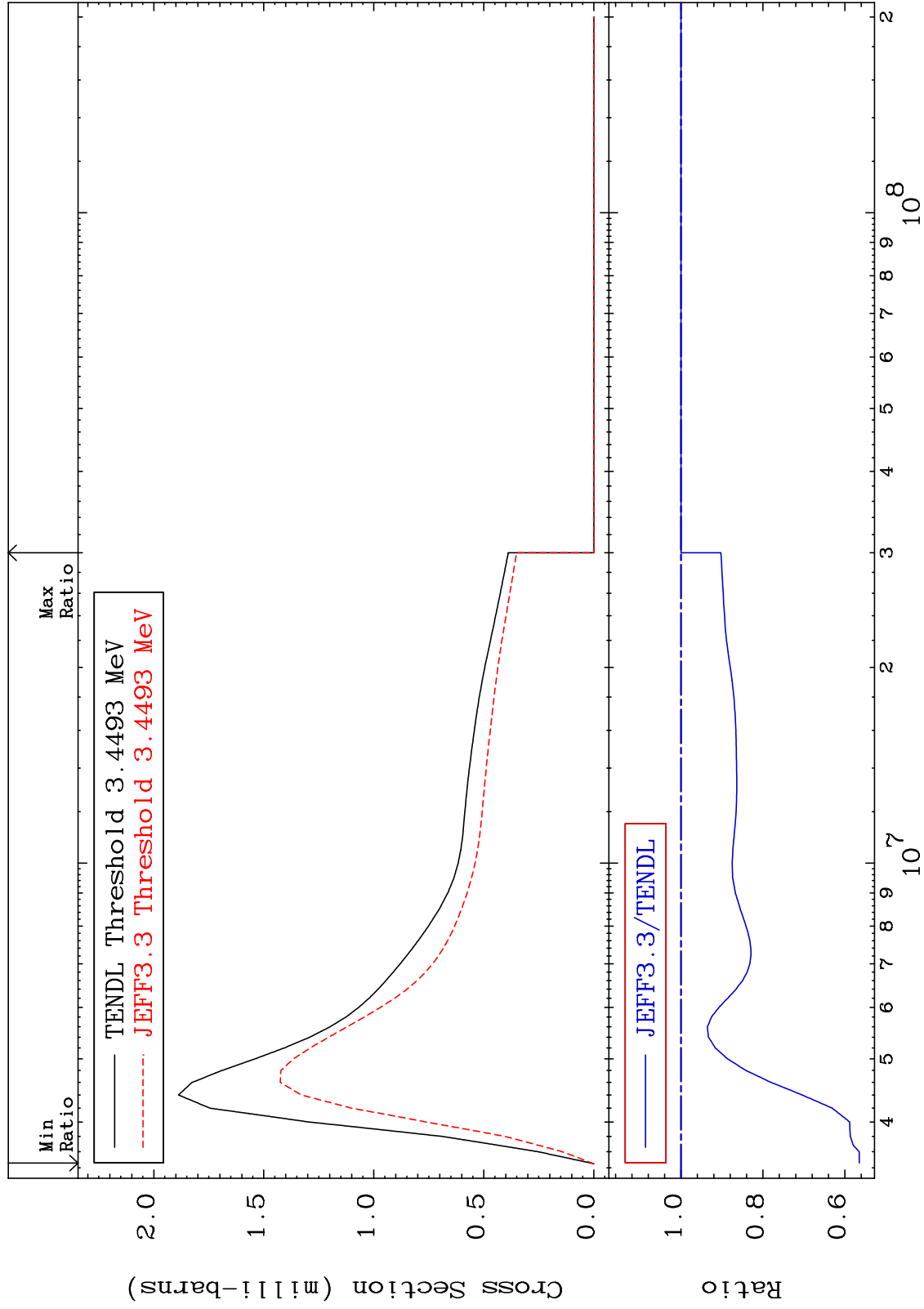
58-Ce-140
-15.20 To 31.95 %



MAT 5837

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

58-Ce-140
-43.52 To 0.000 %



48

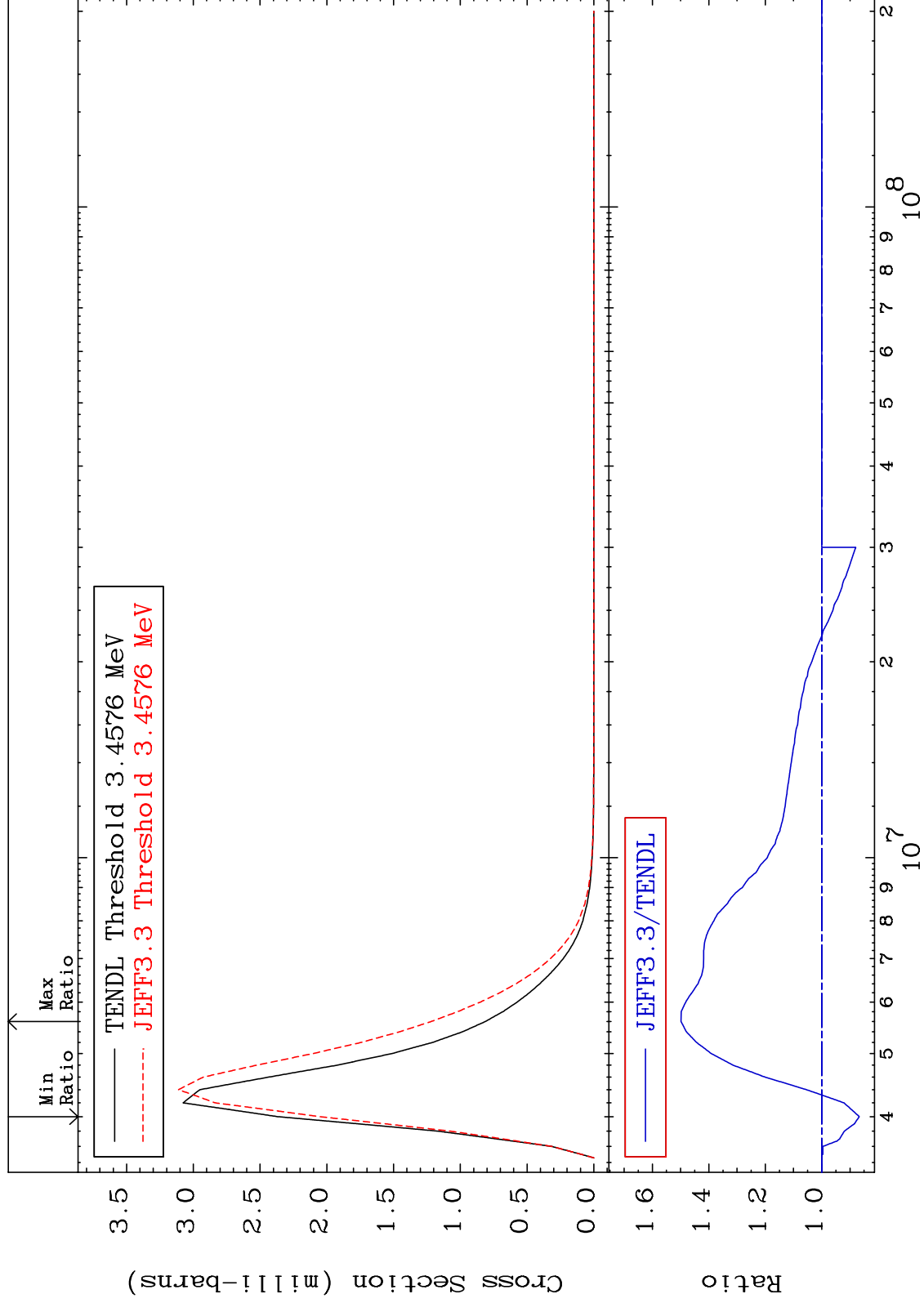
Incident Energy (eV)

58-Ce-140

MAT 5837

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

58-Ce-140
-13.29 To 49.84 %



49

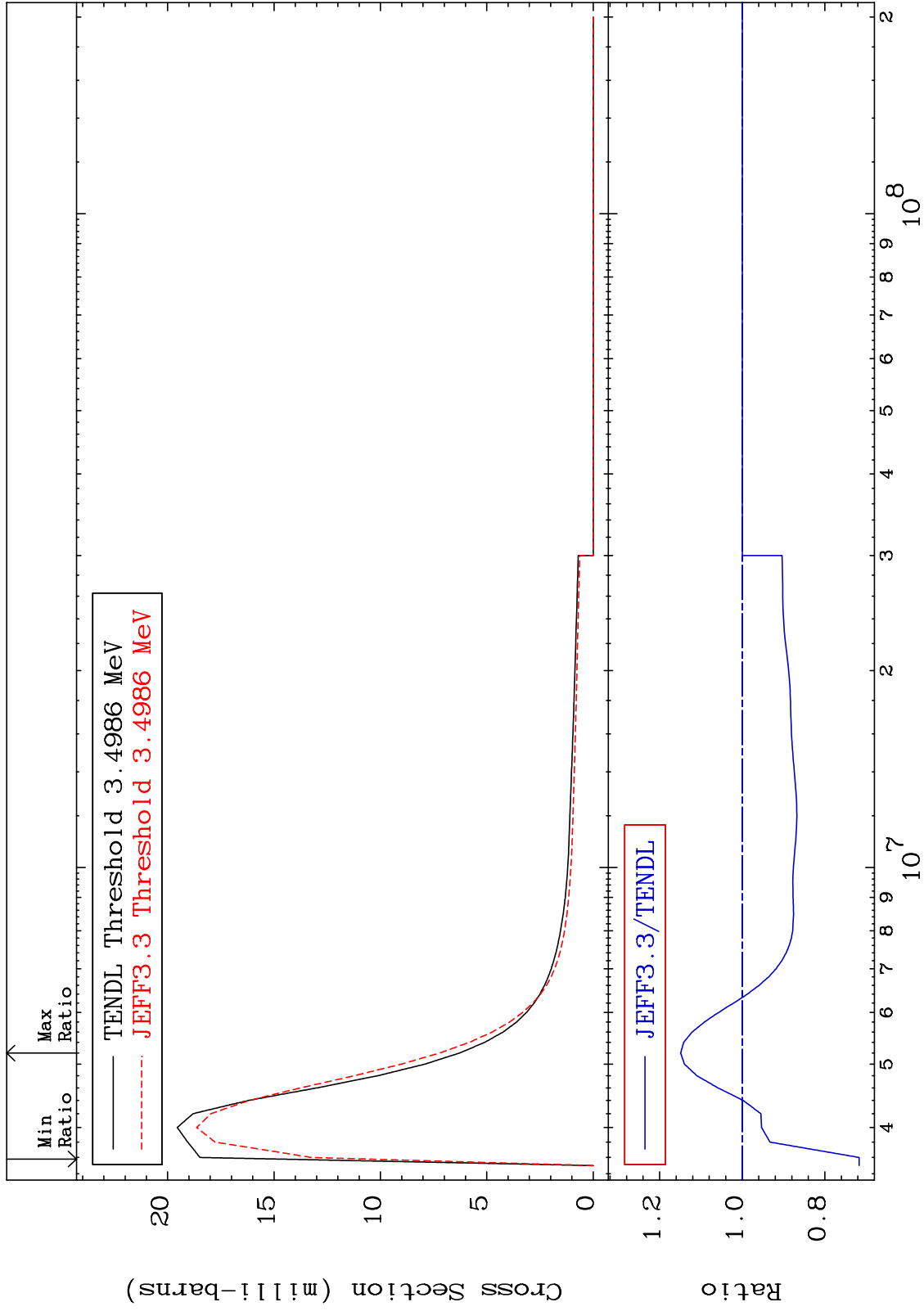
Incident Energy (eV)

58-Ce-140

MAT 5837

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

58-Ce-140
-28.30 To 14.92 %



50

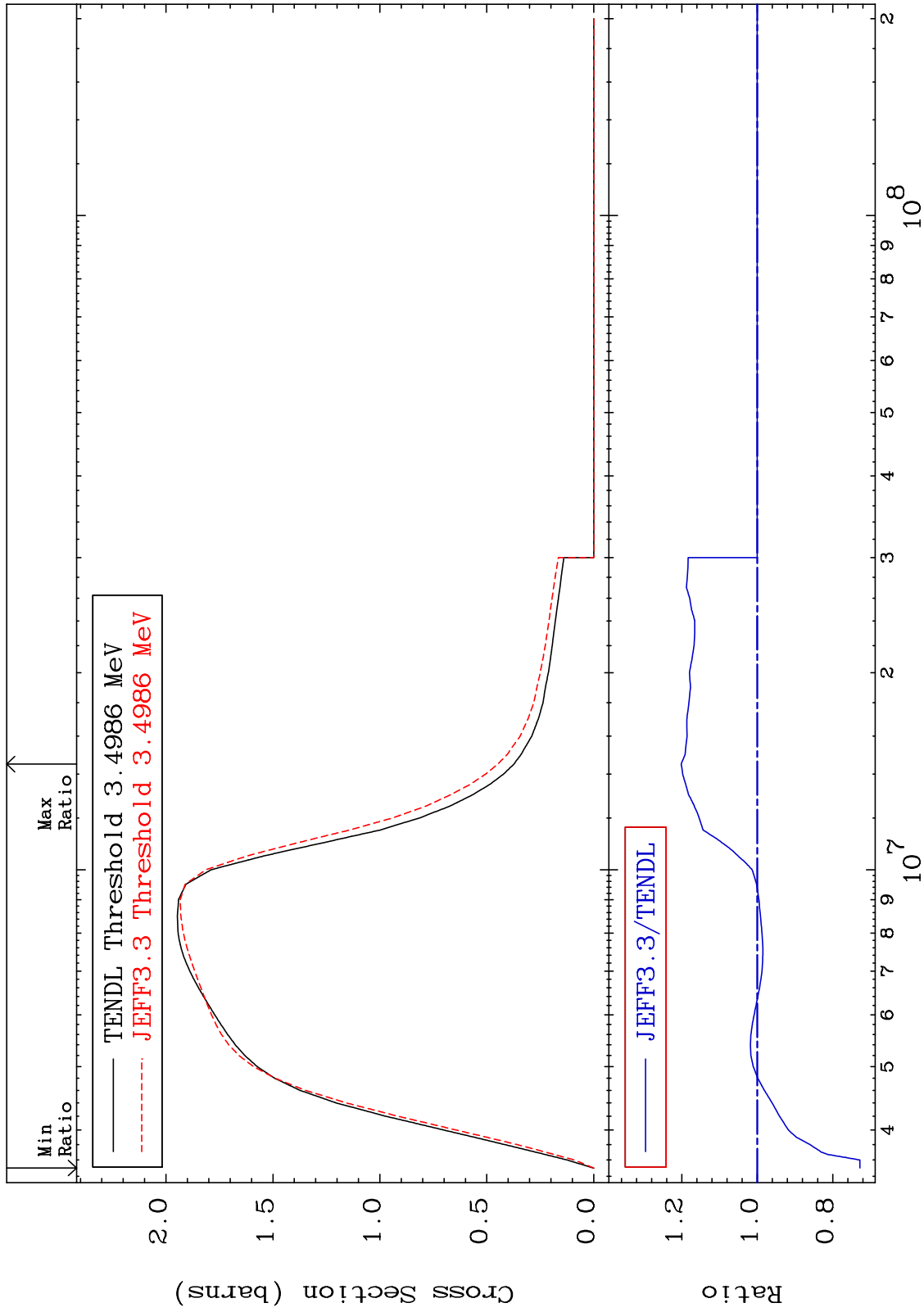
Incident Energy (eV)

58-Ce-140

MAT 5837

(n, n') Continuum
Cross Section

58-Ce-140
-27.23 To 20.18 %



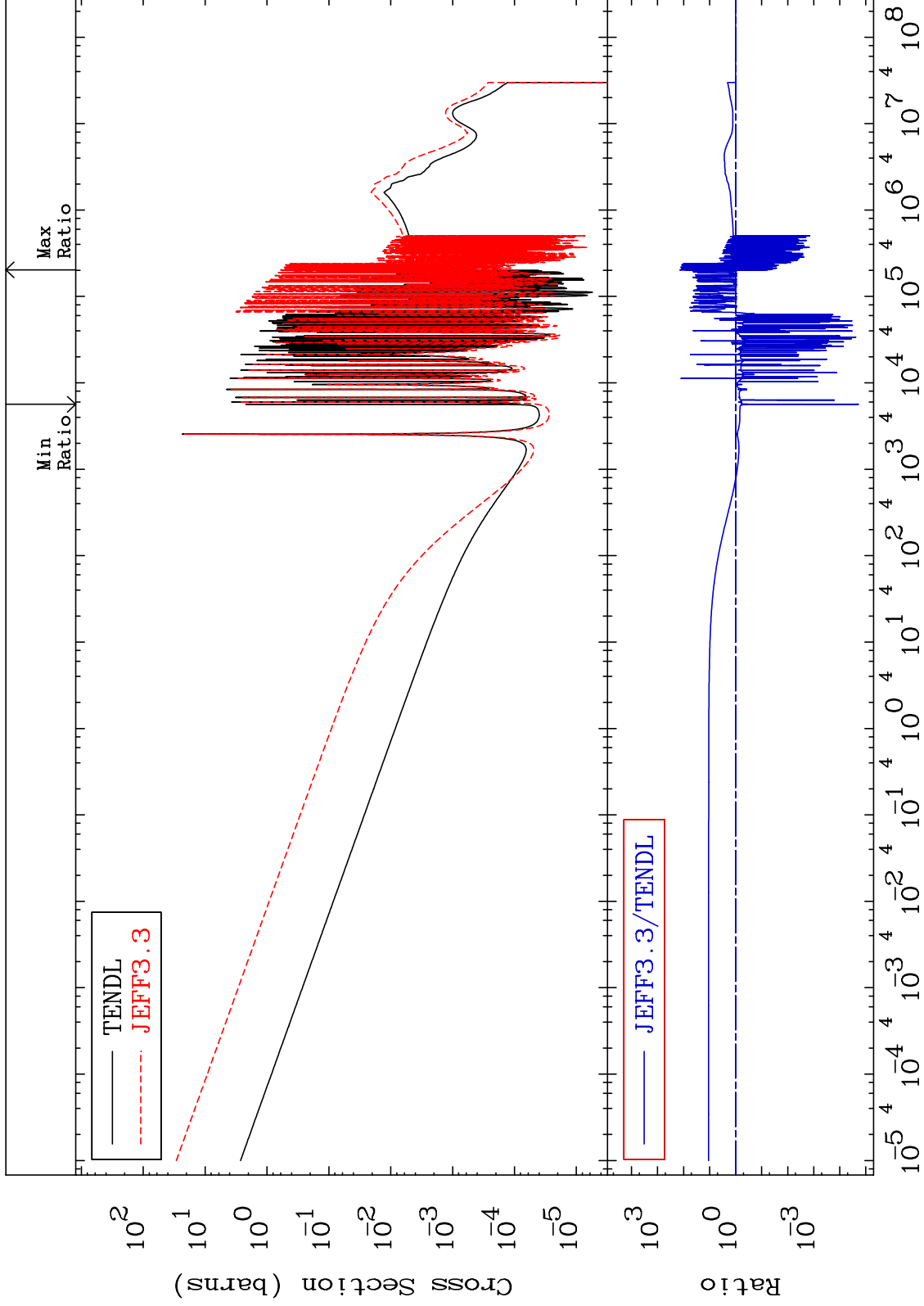
MAT 5837

(n, γ)

58-Ce-140

Cross Section

-100.0 To 9999. %



52

Incident Energy (eV)

58-Ce-140

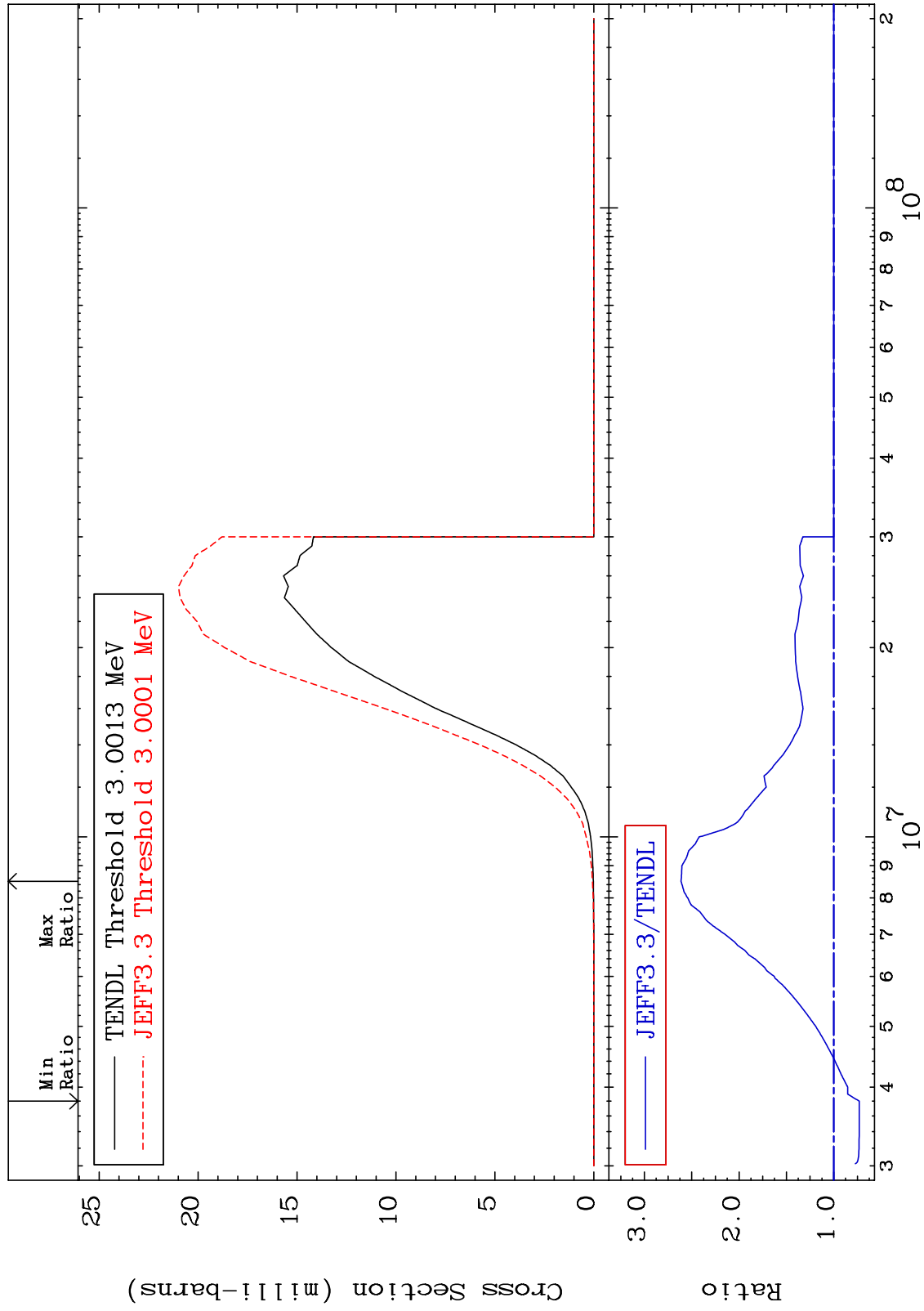
MAT 5837

(n, p)

58-Ce-140

Cross Section

-27.01 To 161.3 %



53

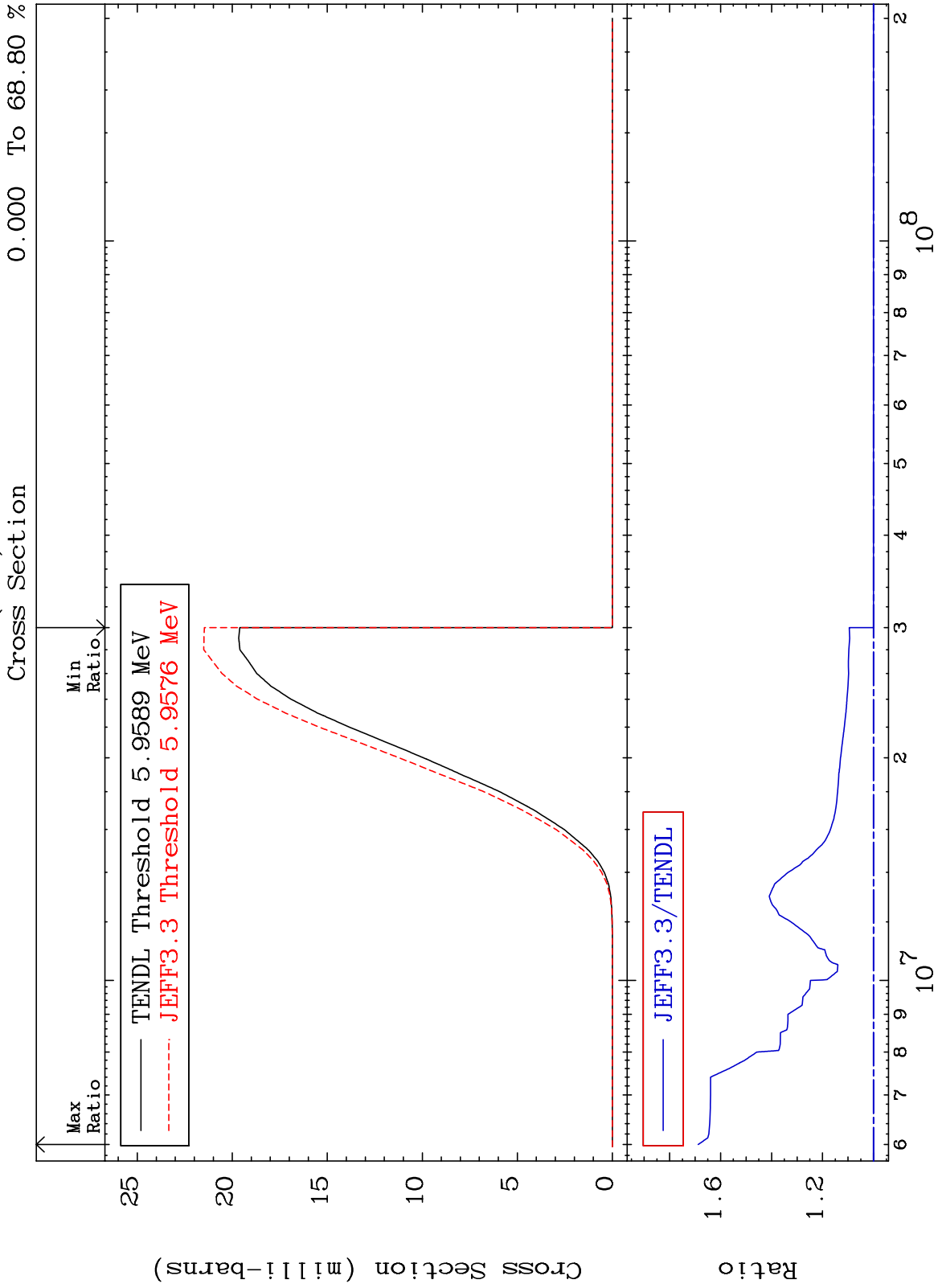
Incident Energy (eV)

58-Ce-140

MAT 5837

(n, d)

58-Ce-140
To 68.80 %
0.000



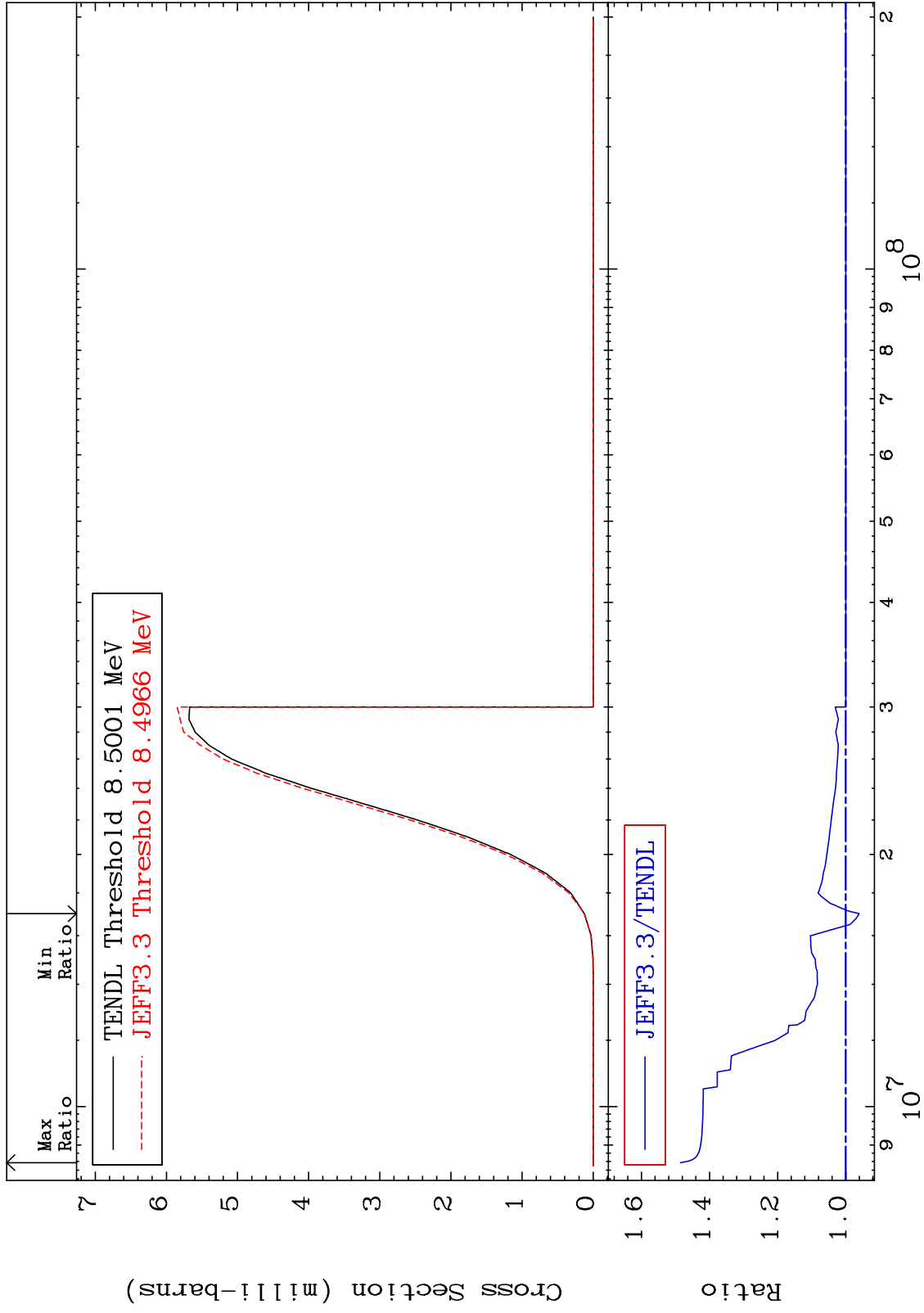
MAT 5837

(n, t)

58-Ce-140

Cross Section

-3.954 To 48.49 %



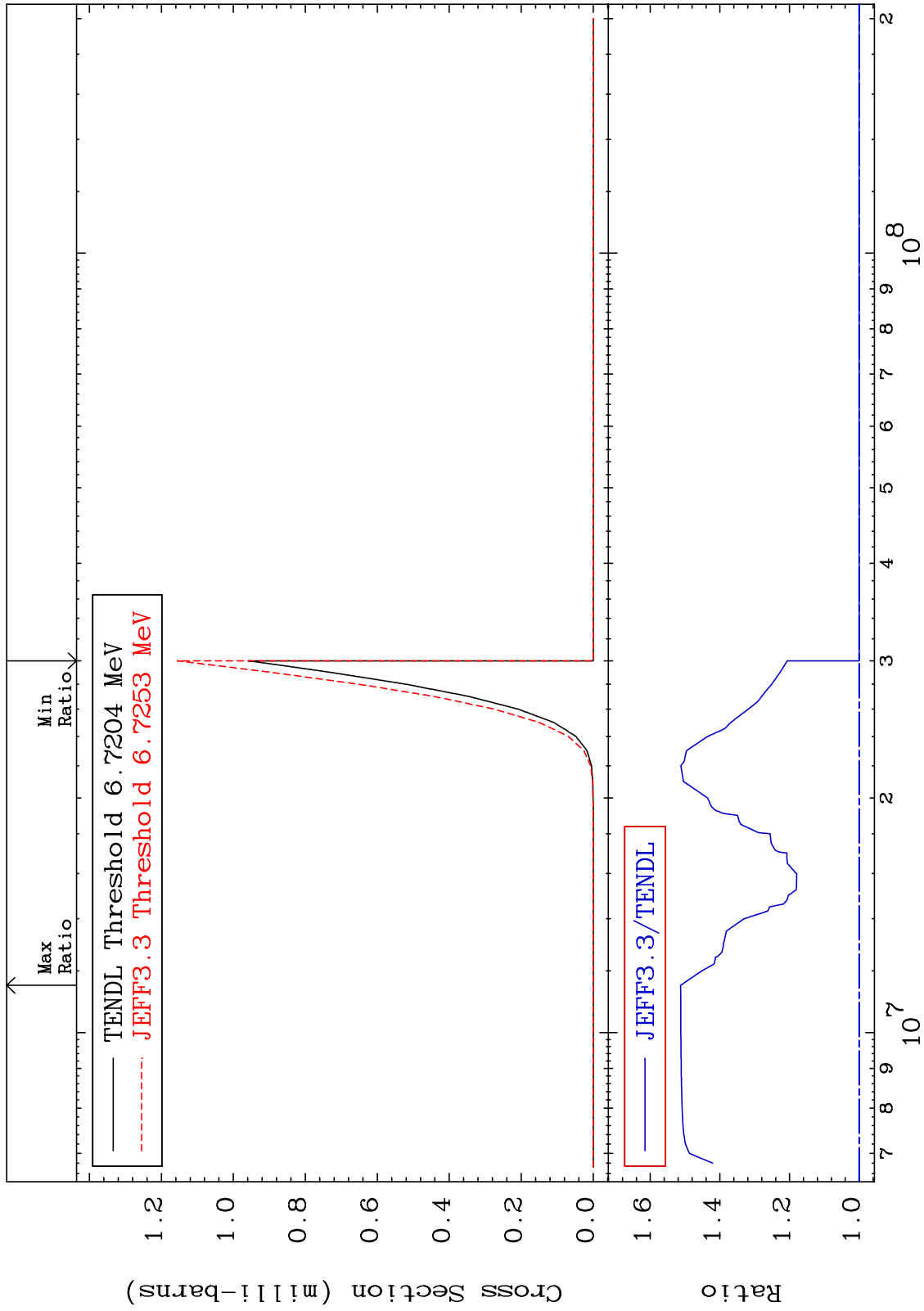
MAT 5837

(n, He-3)

58-Ce-140

Cross Section

0.000 To 51.29 %



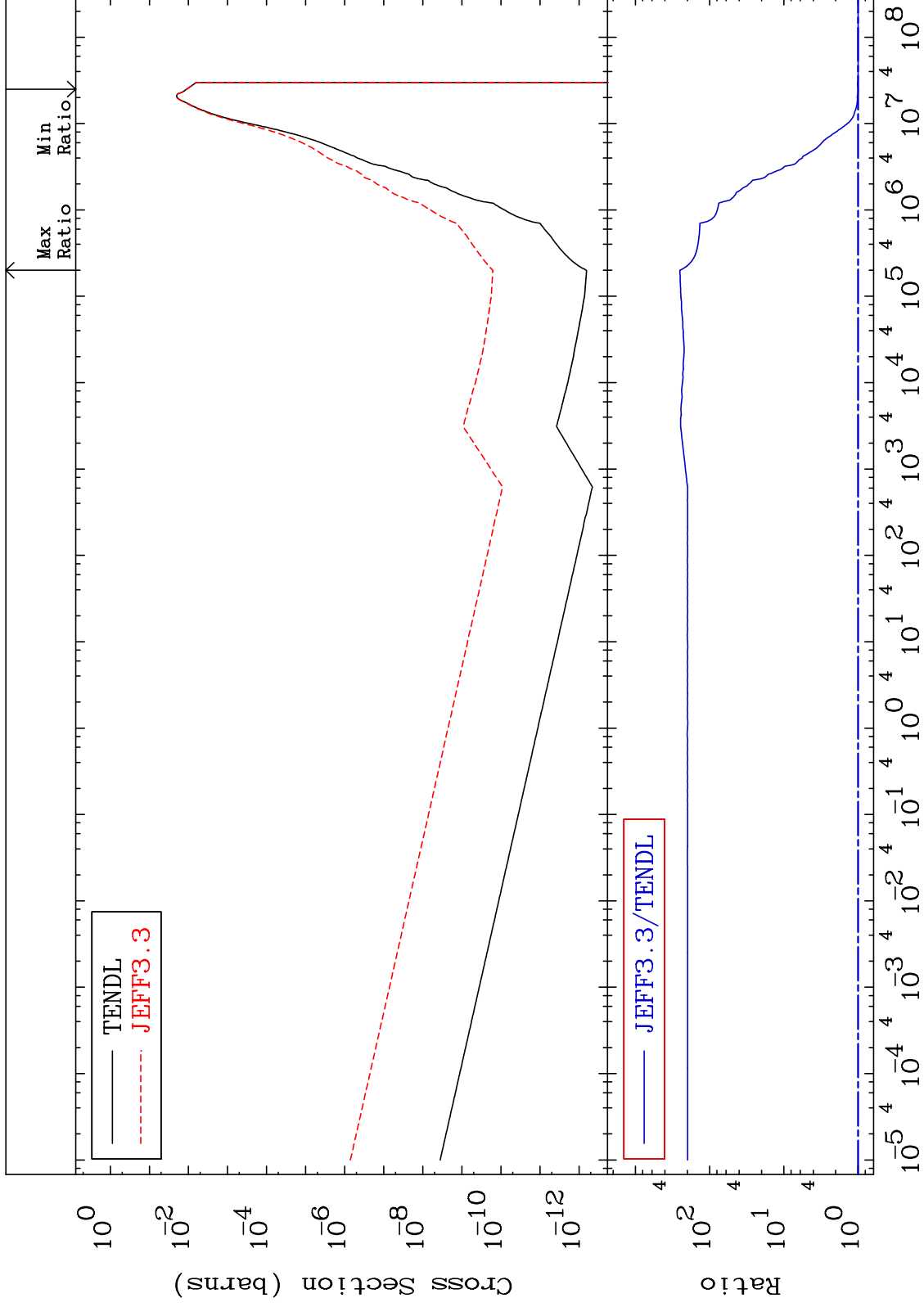
MAT 5837

(n, α)

58-Ce-140

Cross Section

-1.087 To 9999. %



57

Incident Energy (eV)

58-Ce-140

MAT 5837

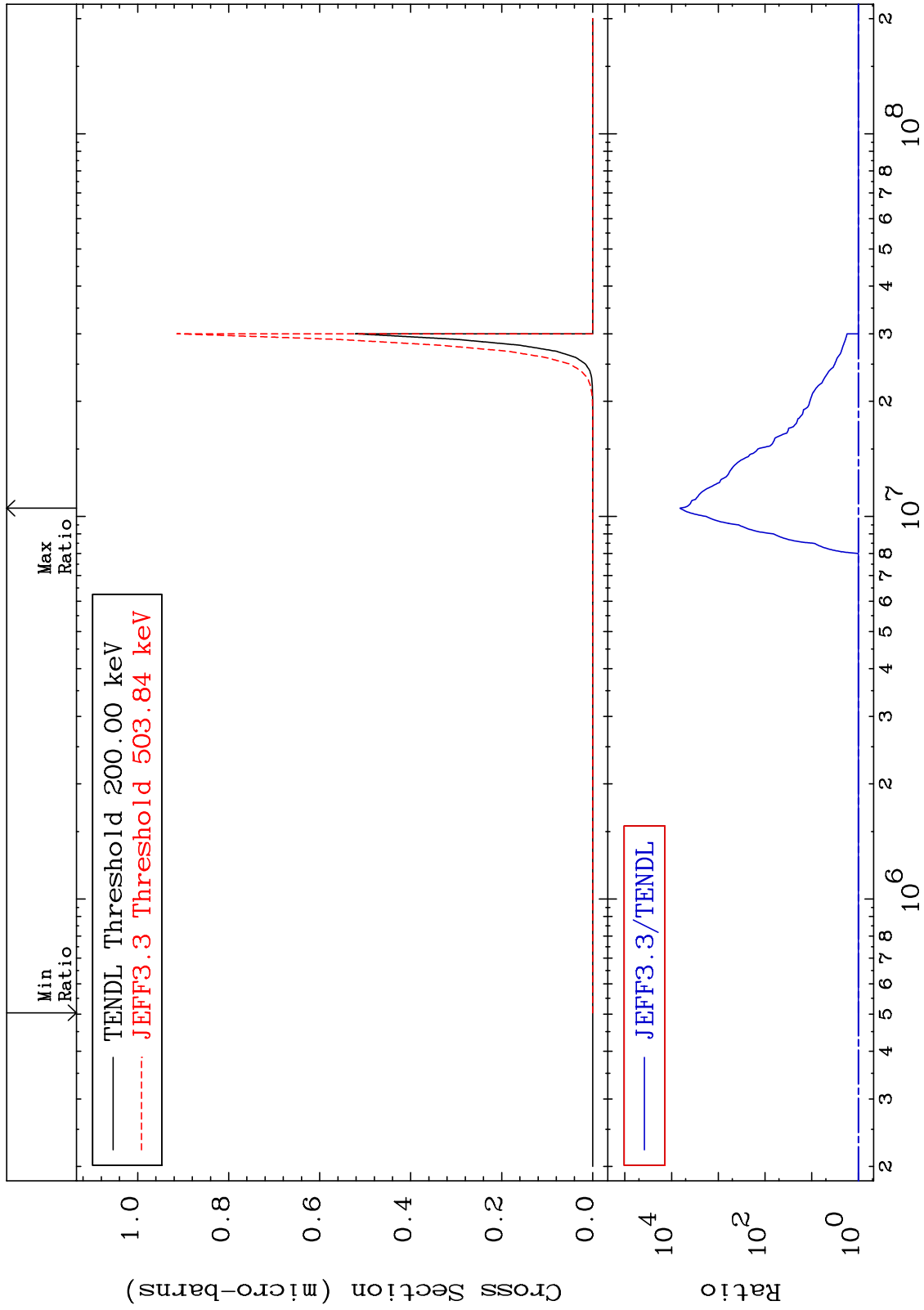
(n, 2α)

58-Ce-140

Cross Section

Cross Section

0.000 To 9999. %



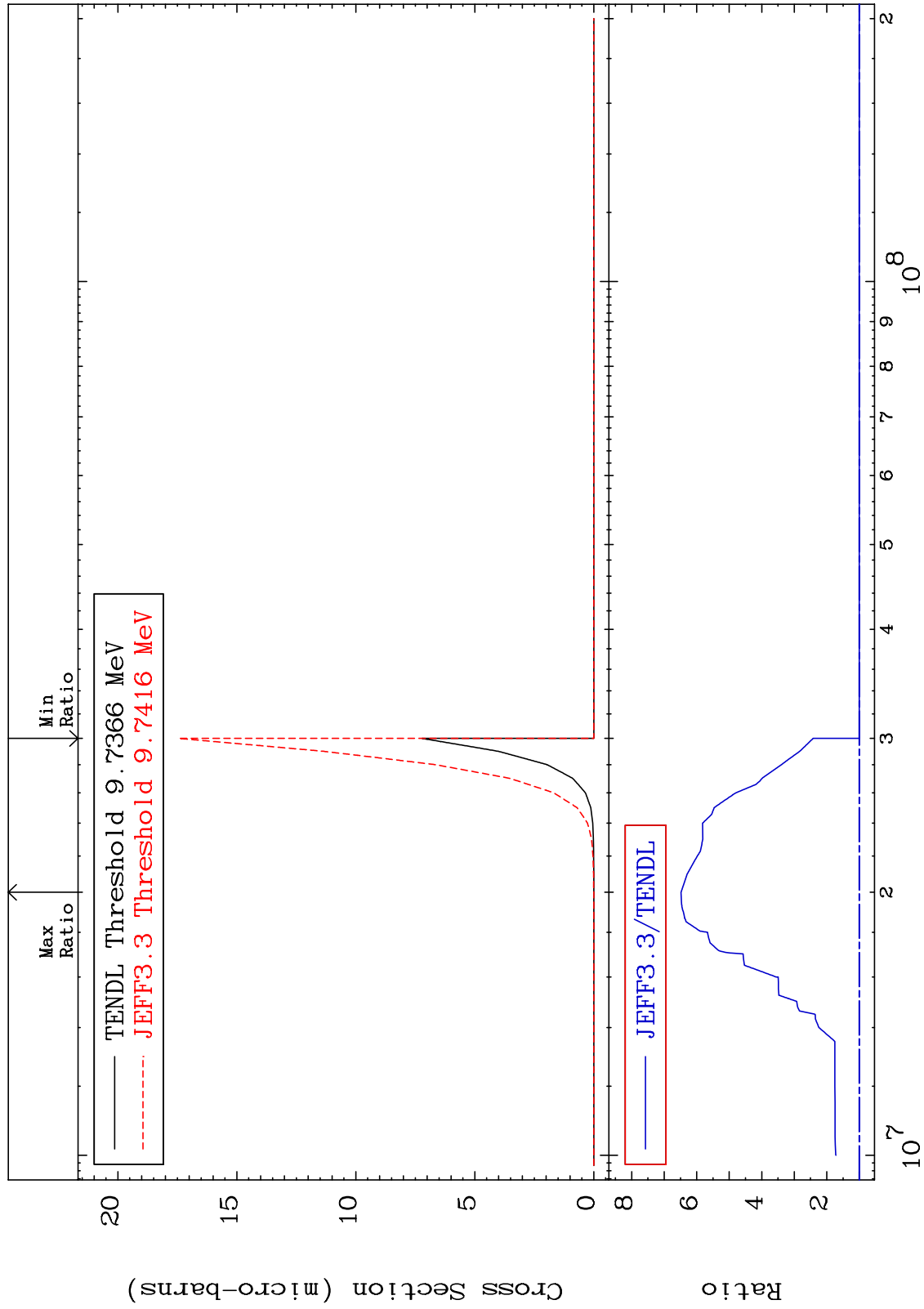
MAT 5837

(n,2p)

58-Ce-140

Cross Section

0.000 To 548.1 %



59

Incident Energy (eV)

58-Ce-140

MAT 5837

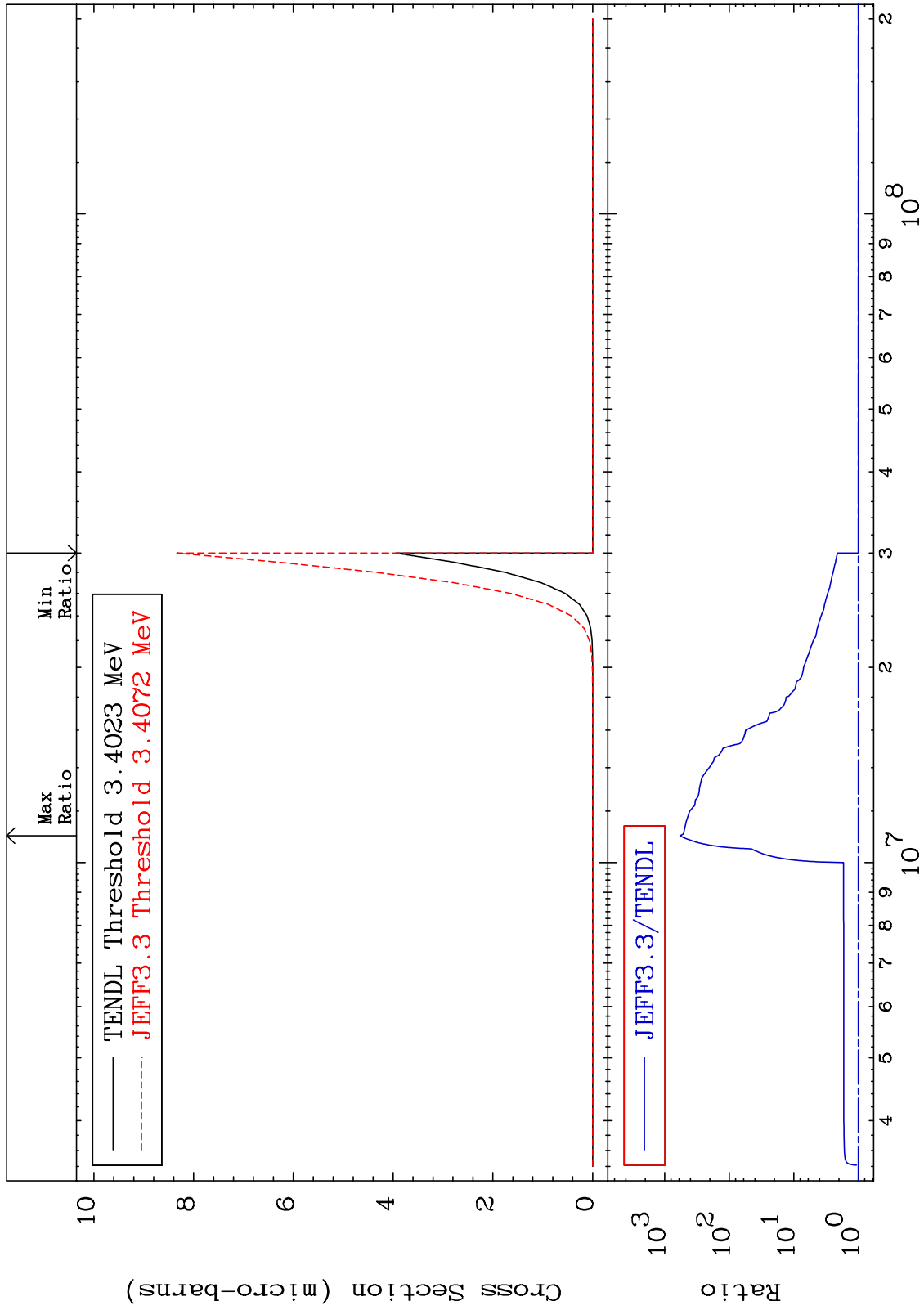
(n,p) α

58-Ce-140

Cross Section

Cross Section

0.000 To 9999. %



60

Incident Energy (eV)

58-Ce-140

MAT 5837

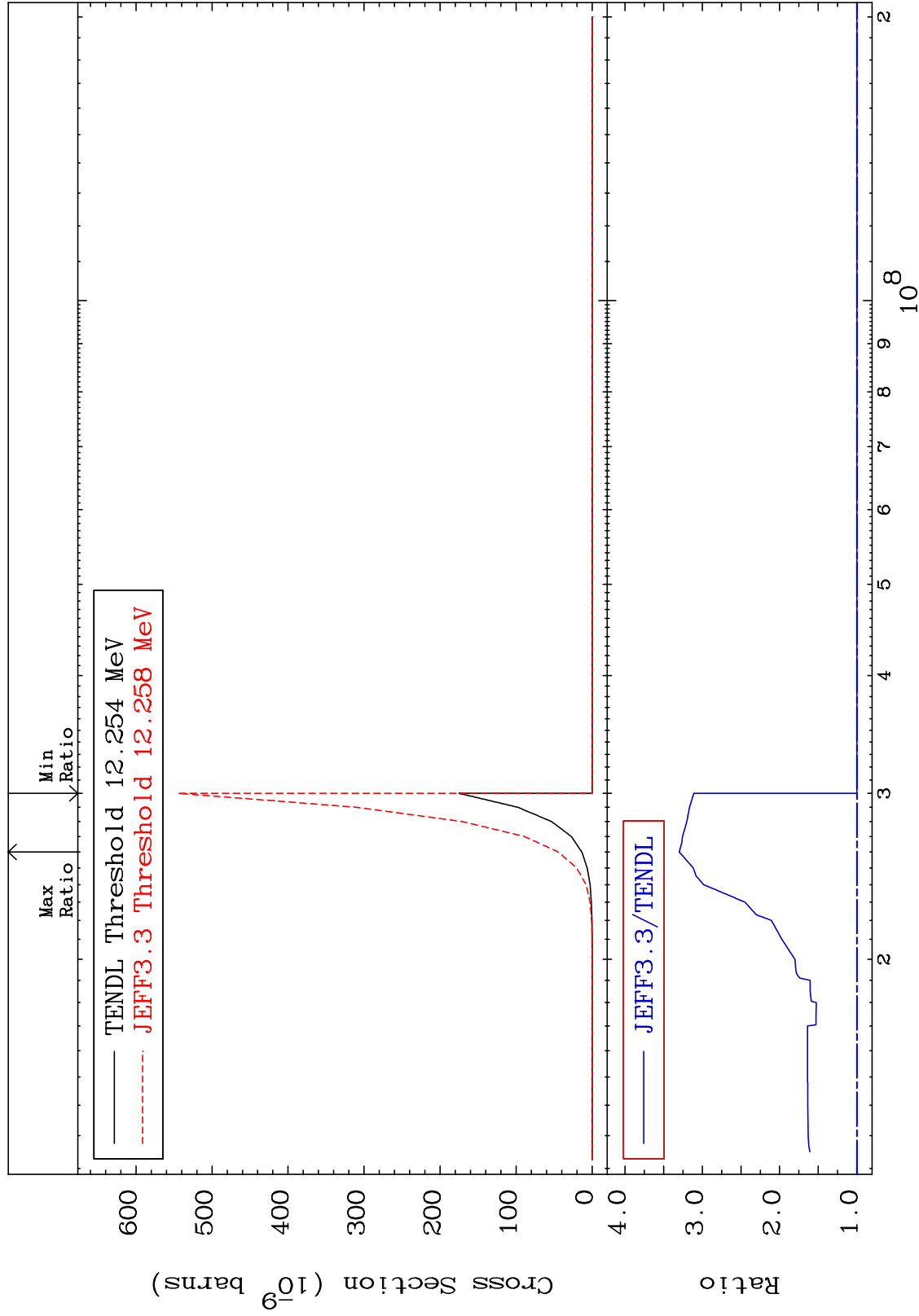
(n,p) d

58-Ce-140

Cross Section

0.000

To 229.9 %



MAT 5837

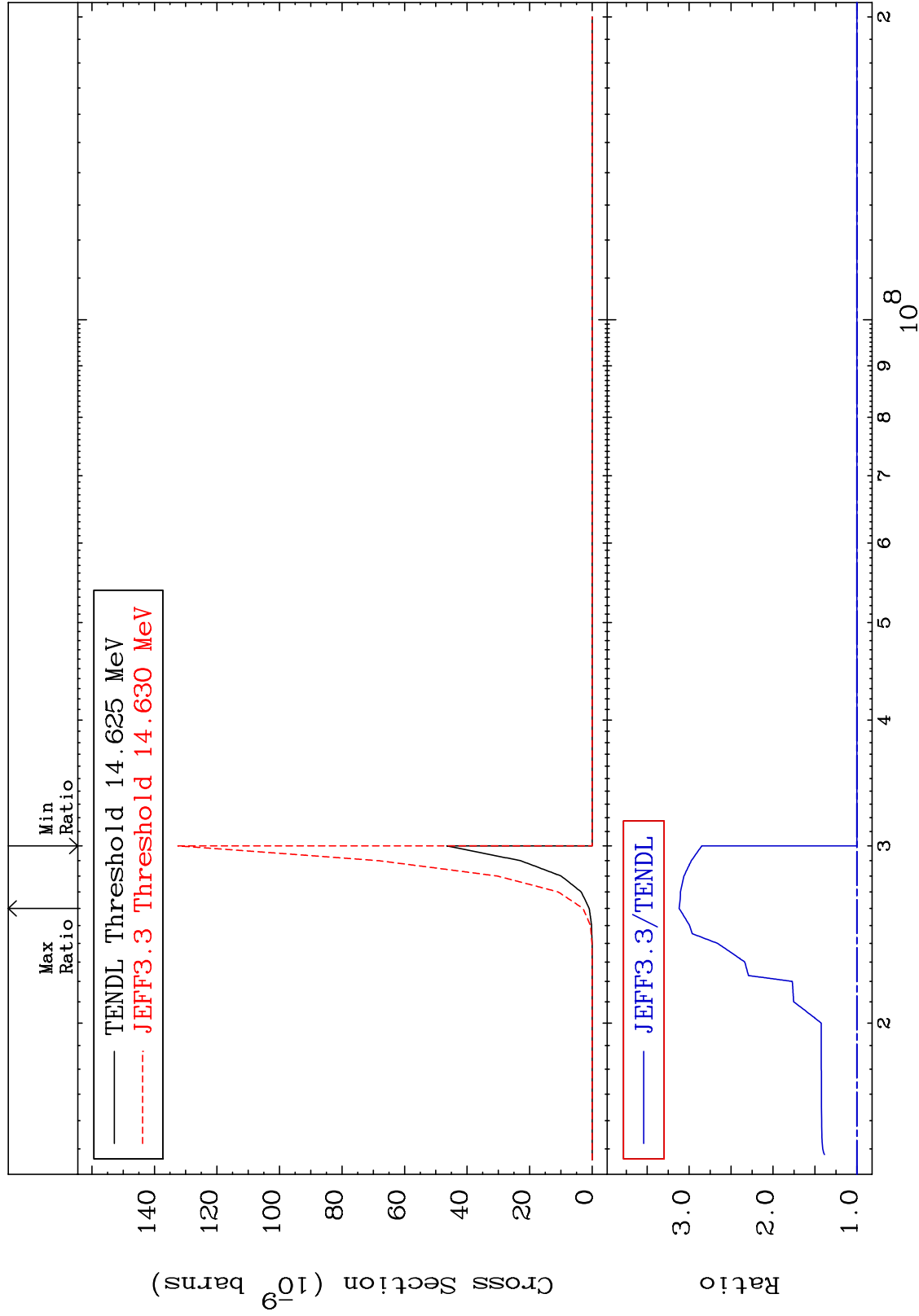
(n,p) t

58-Ce-140

Cross Section

0.000

To 211.9 %



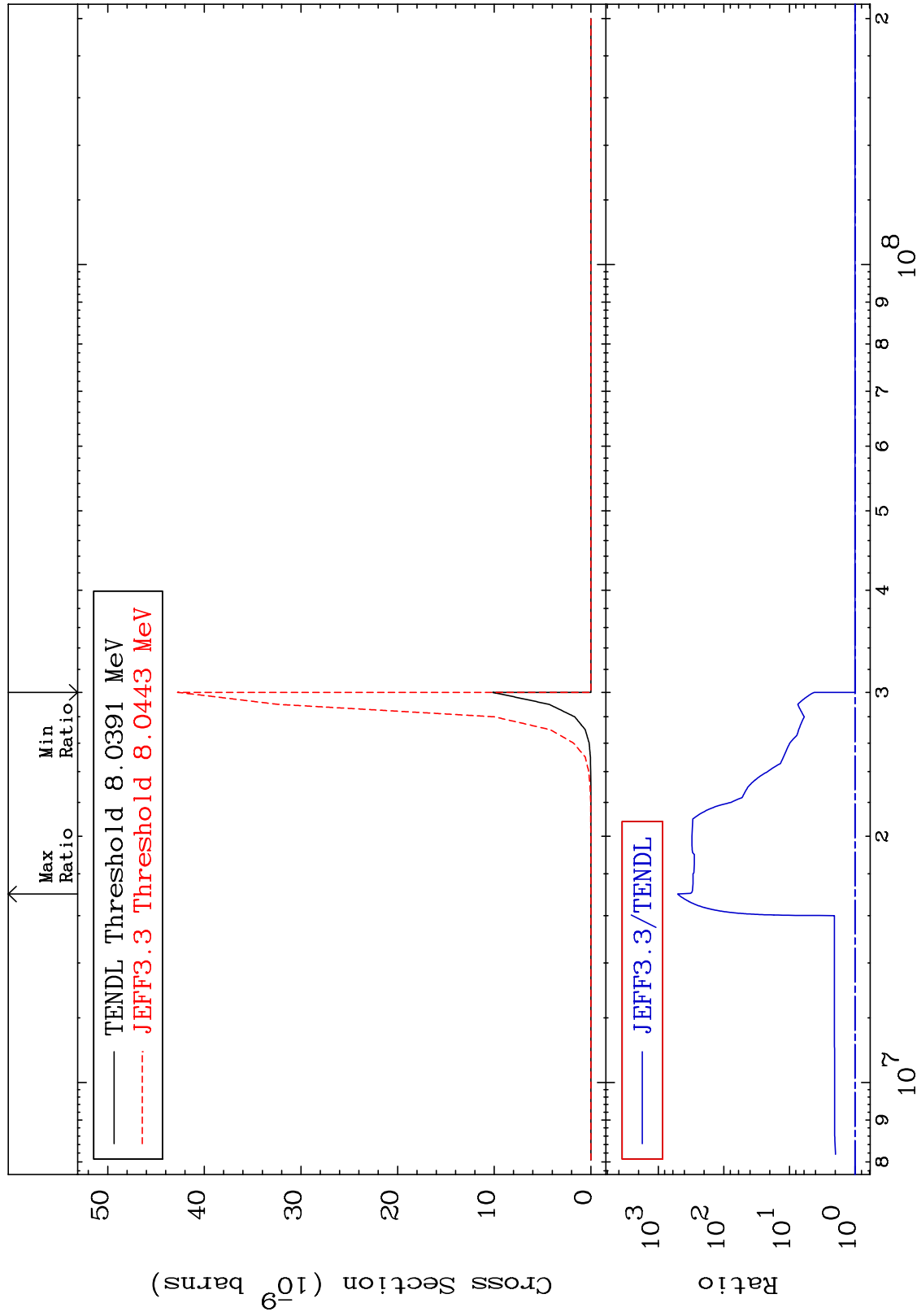
MAT 5837

(n,d) α

58-Ce-140

Cross Section

0.000 To 9999. %



63

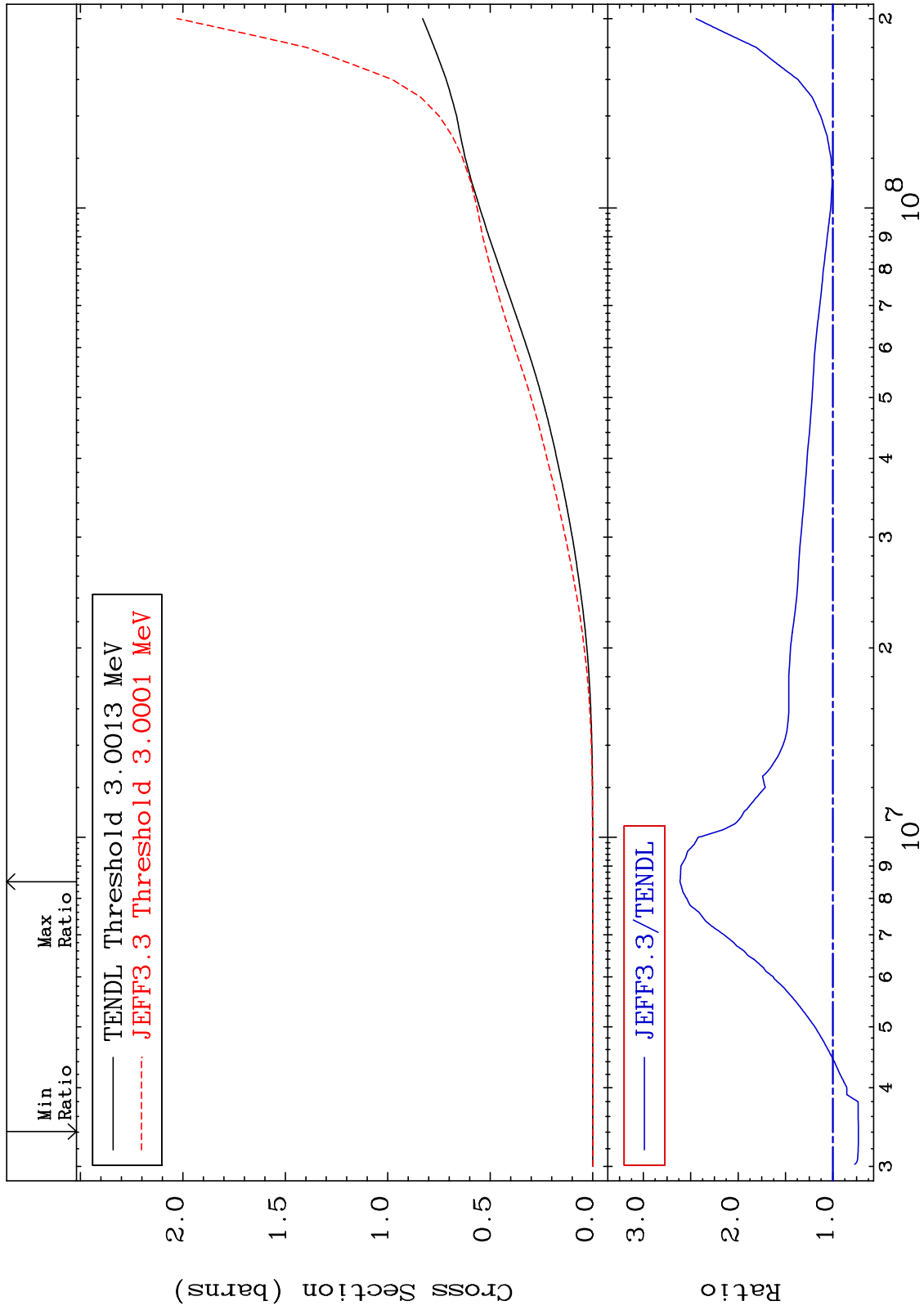
Incident Energy (eV)

58-Ce-140

MAT 5837

Hydrogen Production
Cross Section

58-Ce-140
-26.91 To 161.3 %



64

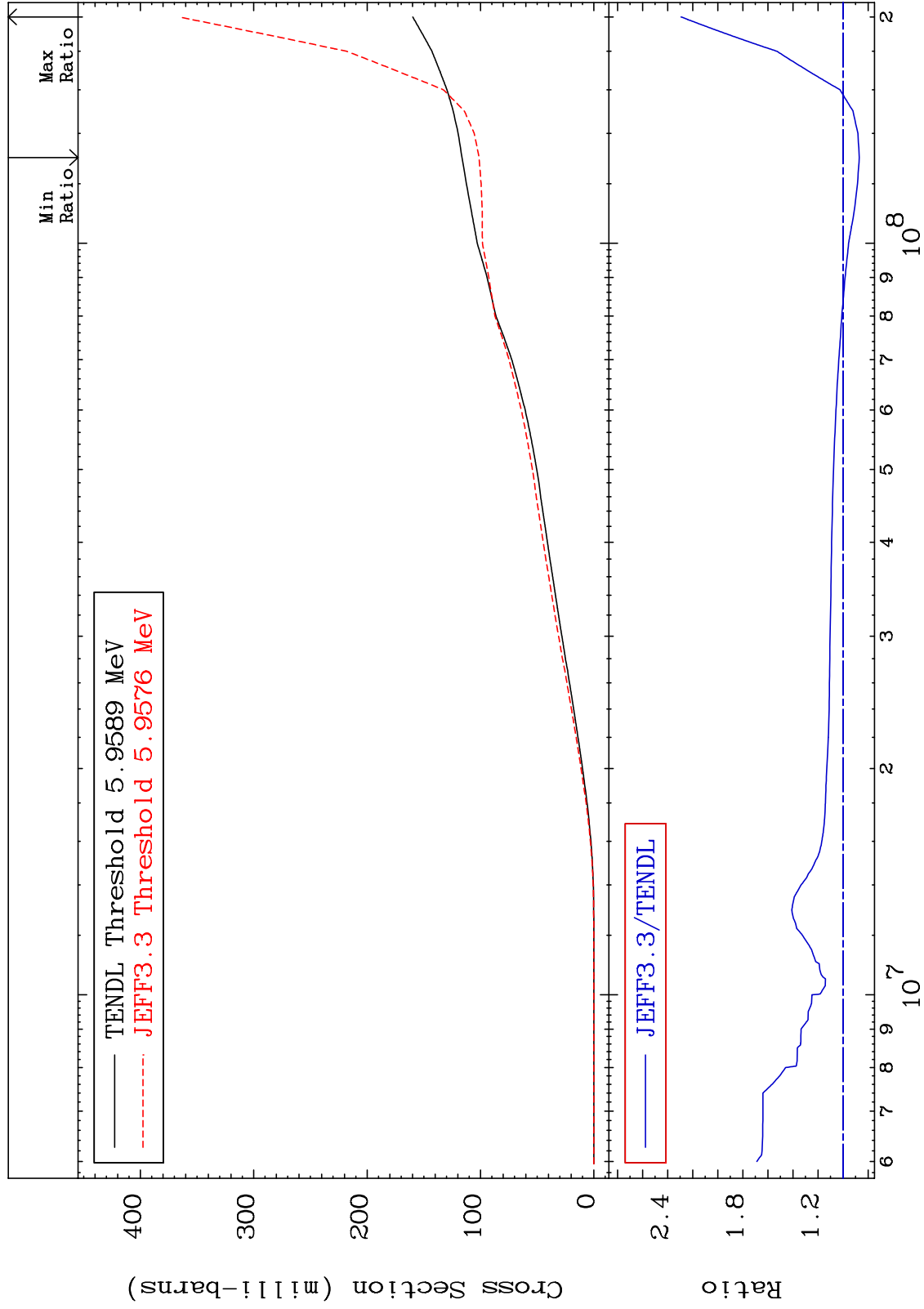
Incident Energy (eV)

58-Ce-140

MAT 5837

Deuterium Production
Cross Section

58-Ce-140
-12.98 To 129.3 %



65

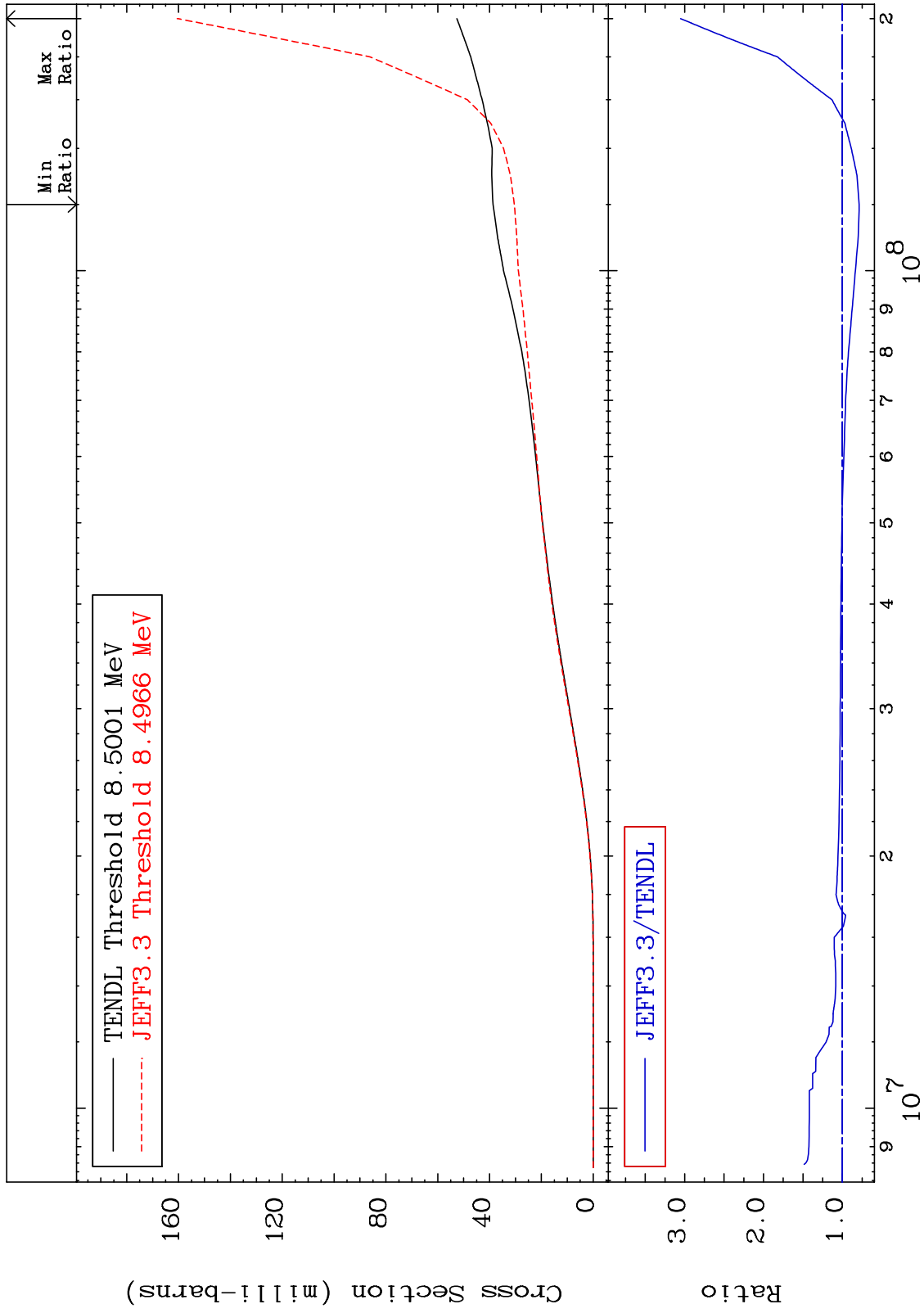
Incident Energy (eV)

58-Ce-140

MAT 5837

Tritium Production
Cross Section

58-Ce-140
-21.28 To 205.1 %



66

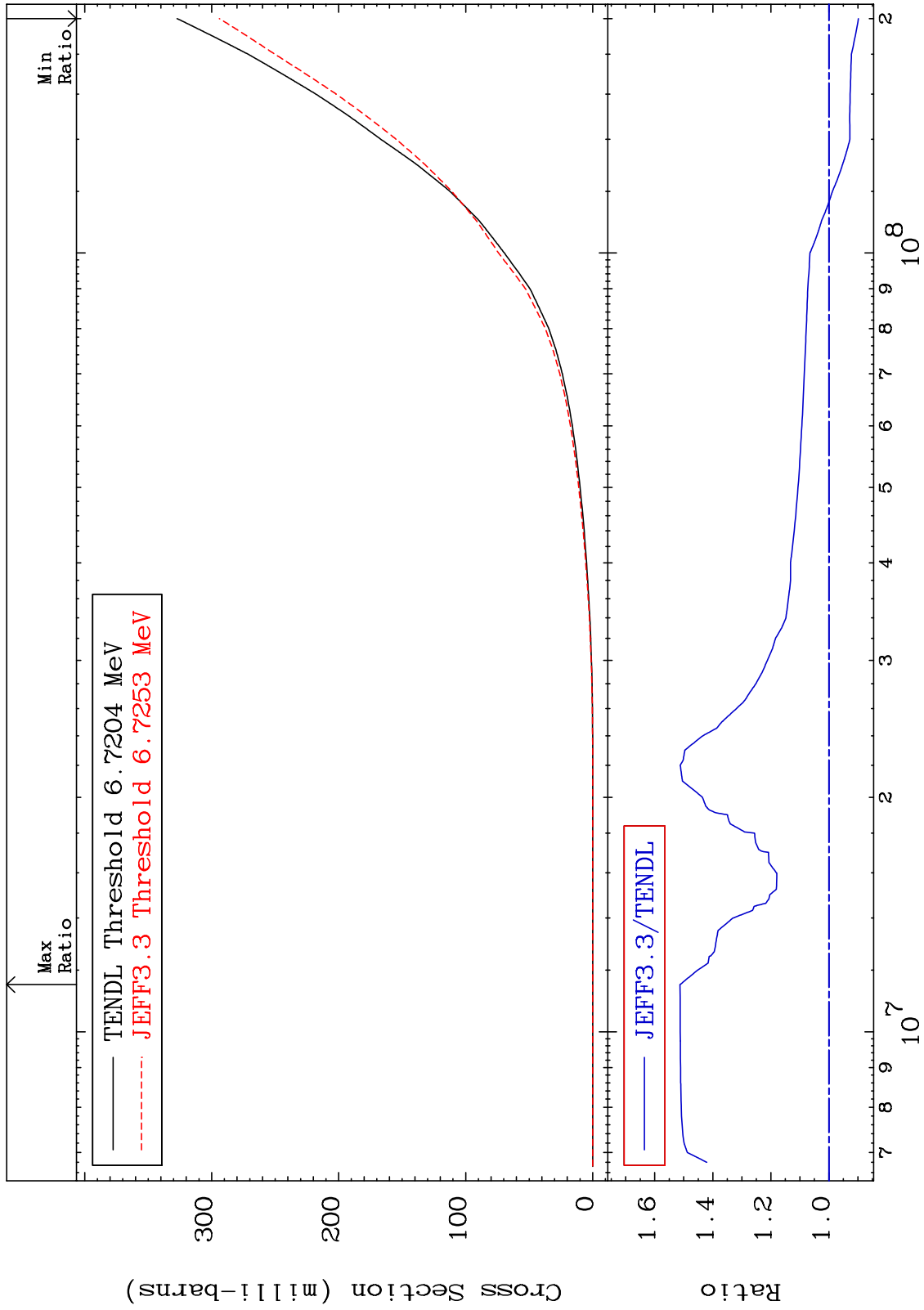
Incident Energy (eV)

58-Ce-140

MAT 5837

He-3 Production
Cross Section

58-Ce-140
-10.19 To 51.29 %



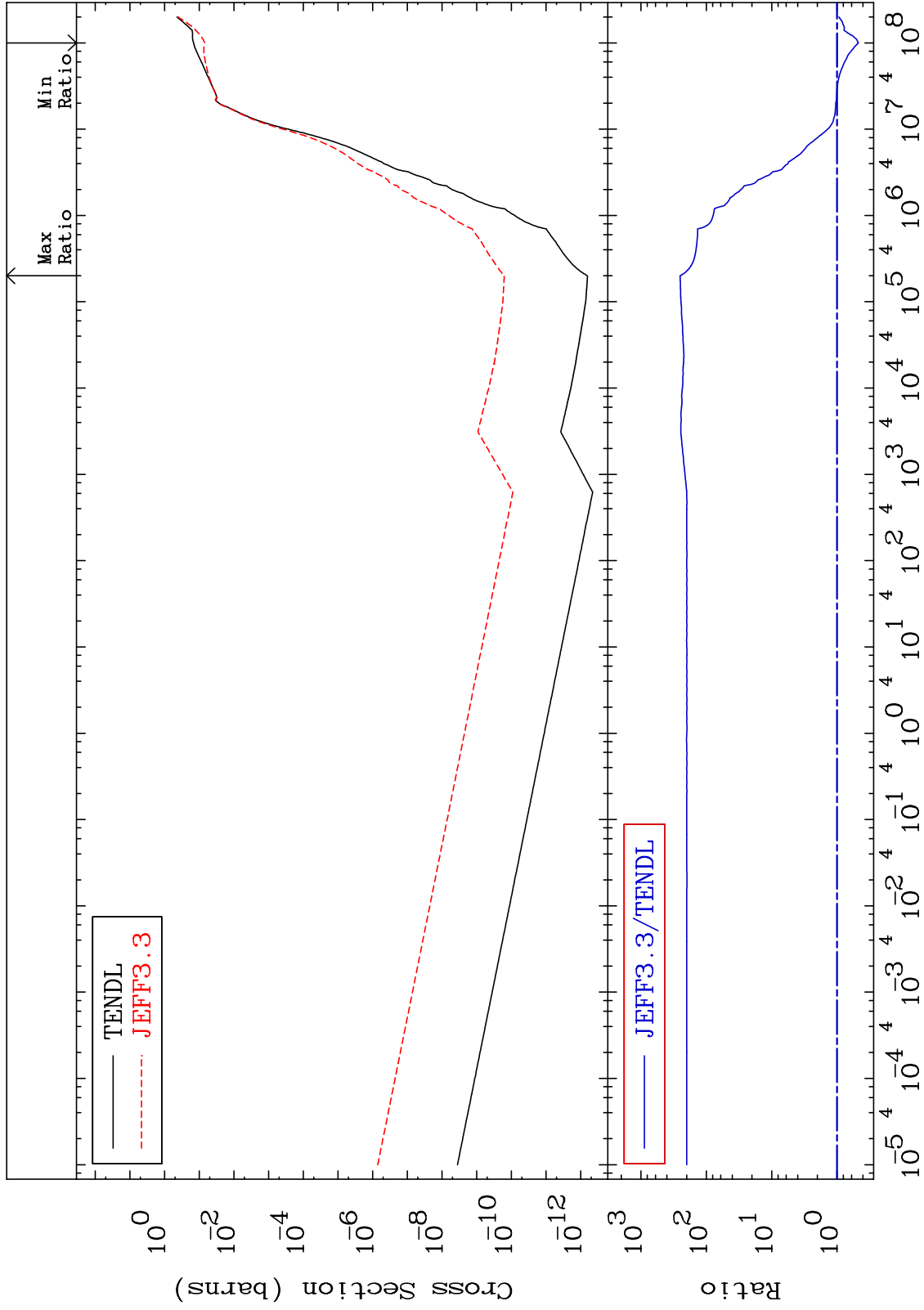
67

58-Ce-140

MAT 5837

He-4 Production
Cross Section

58-Ce-140
-52.89 To 9999. %



68

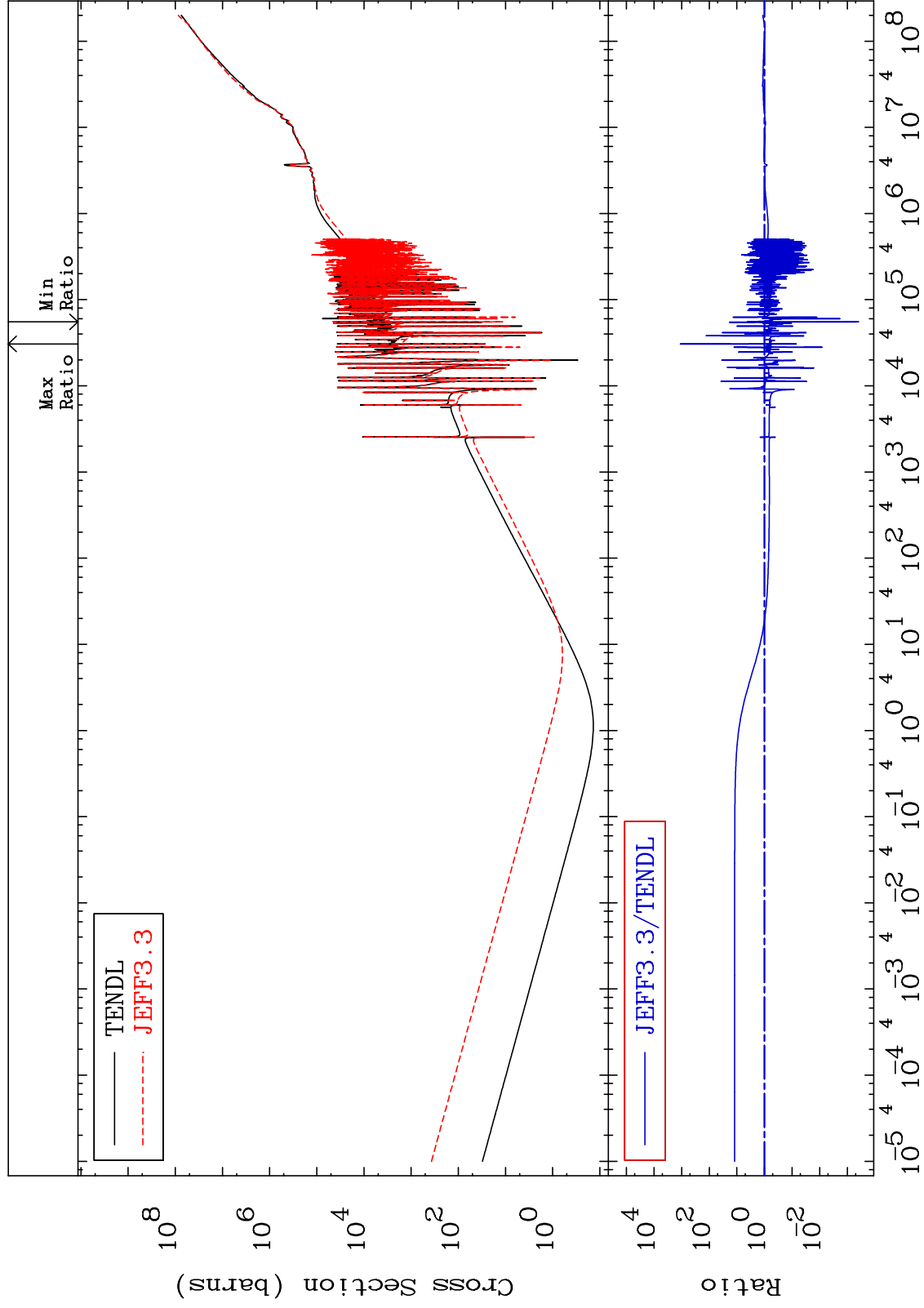
Incident Energy (eV)

58-Ce-140

MAT 5837

Kerma total (eV-barns)
Cross Section

58-Ce-140
-99.96 To 9999. %



69

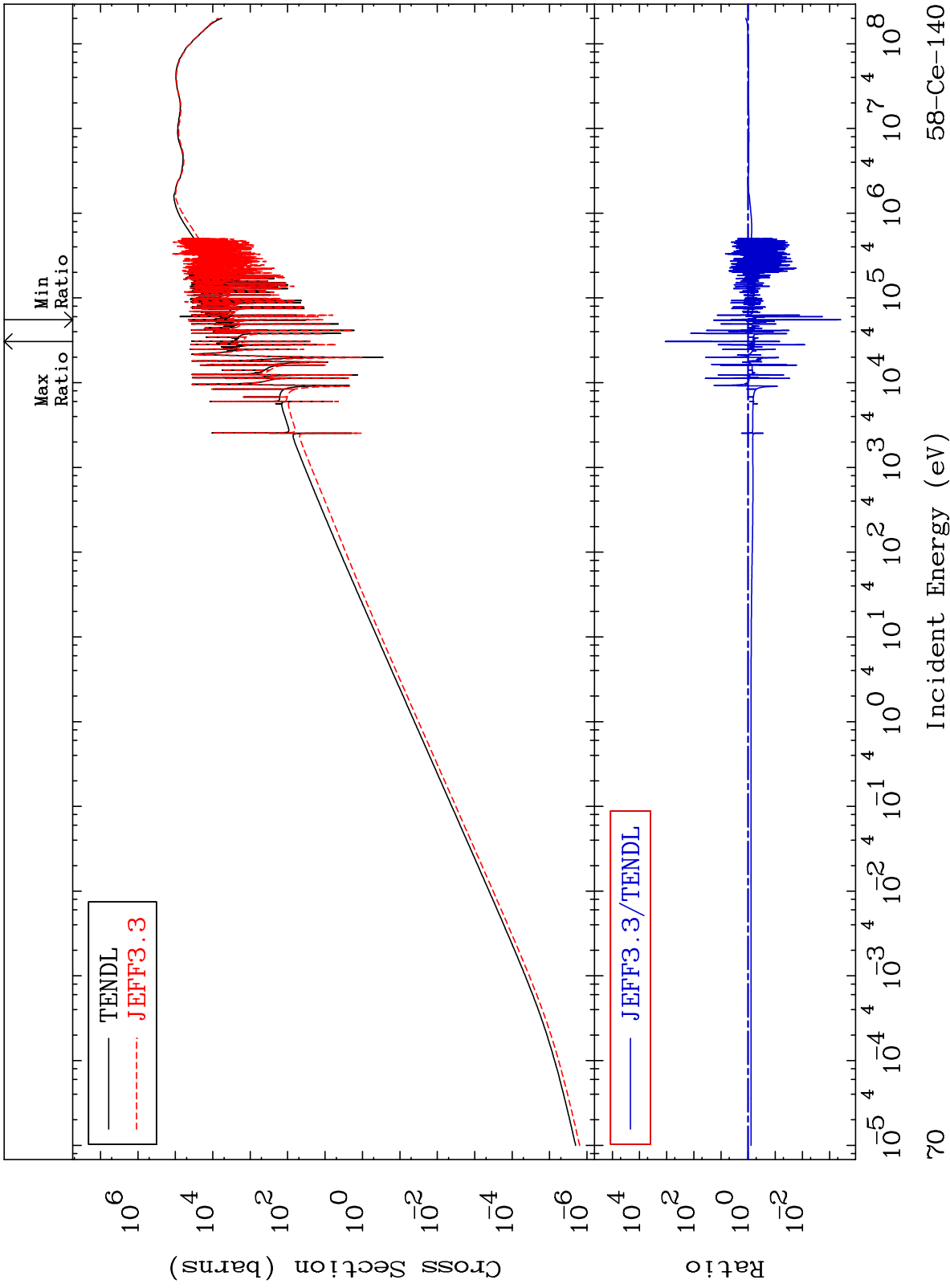
Incident Energy (eV)

58-Ce-140

MAT 5837

Kerma elastic
Cross Section

58-Ce-140
-99.96 To 9999. %



70

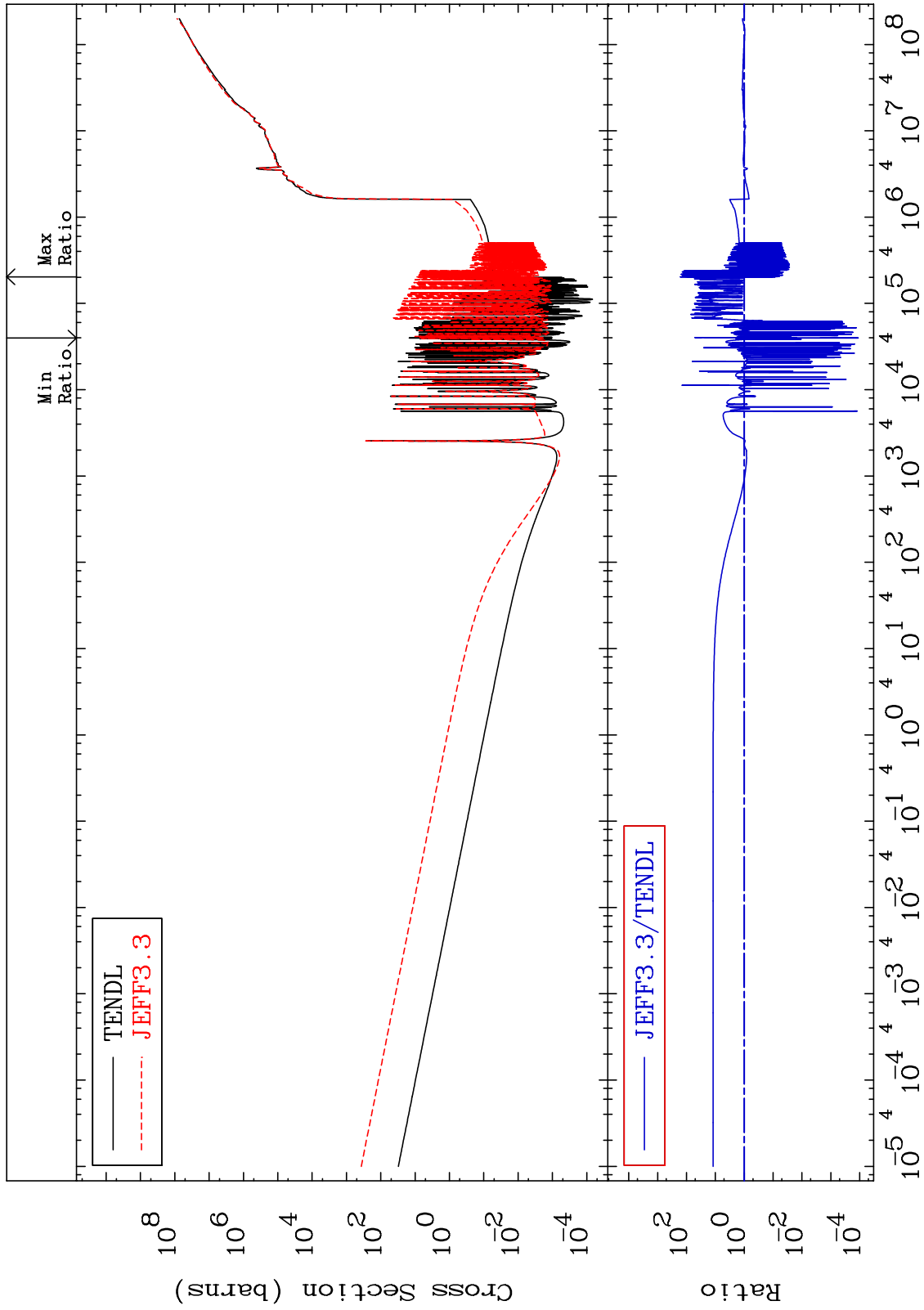
Incident Energy (eV)

58-Ce-140

MAT 5837

Kerma non-elastic (all but mt2)
Cross Section

58-Ce-140
-99.99 To 9999. %



71

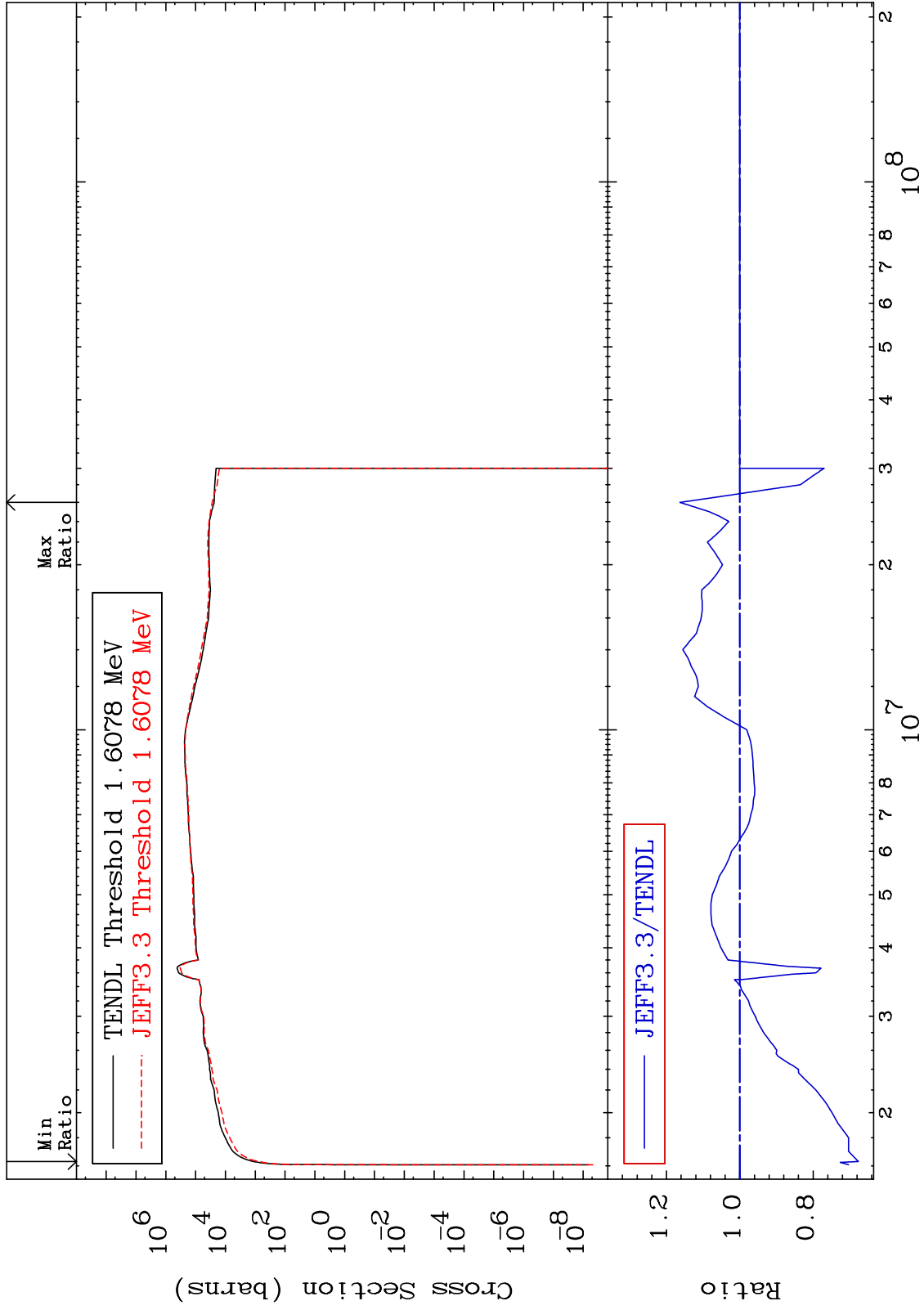
Incident Energy (eV)

58-Ce-140

MAT 5837

Kerma inelastic (mt51-91)
Cross Section

58-Ce-140
-32.36 To 16.30 %



72

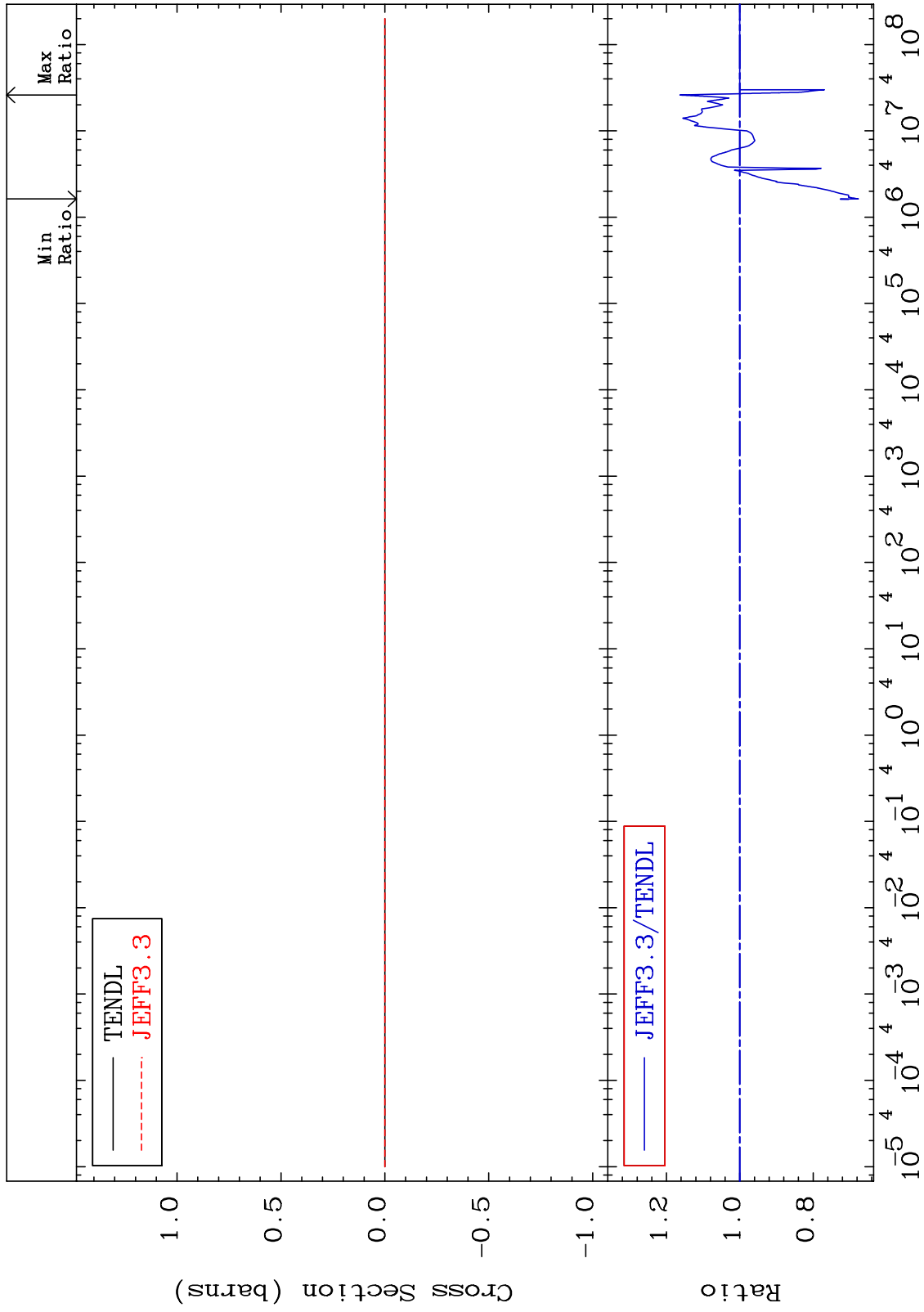
Incident Energy (eV)

58-Ce-140

MAT 5837

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

58-Ce-140
-32.36 To 16.30 %



73

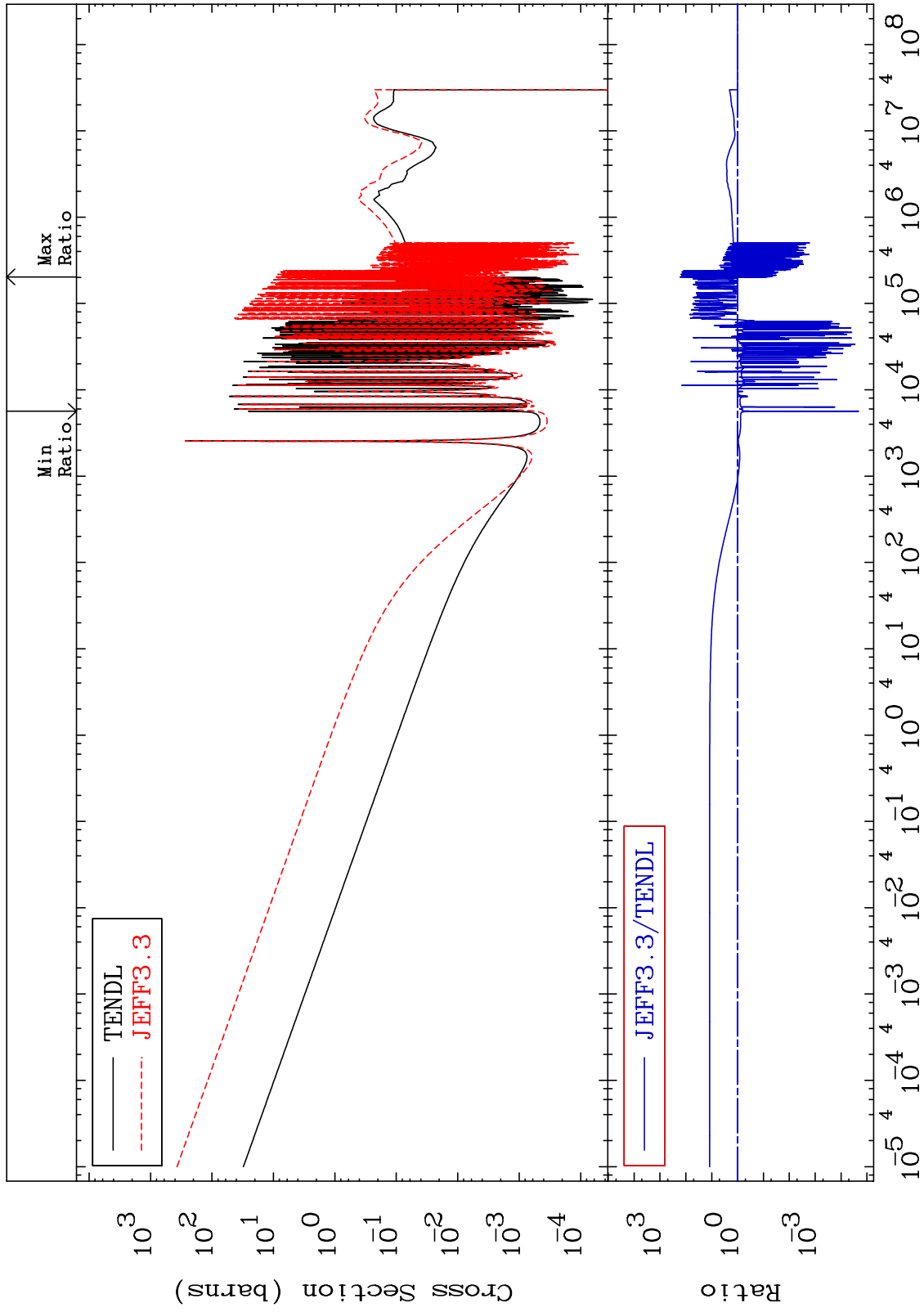
Incident Energy (eV)

58-Ce-140

MAT 5837

Kerma capture (mt102)
Cross Section

58-Ce-140
-100.0 To 9999. %



74

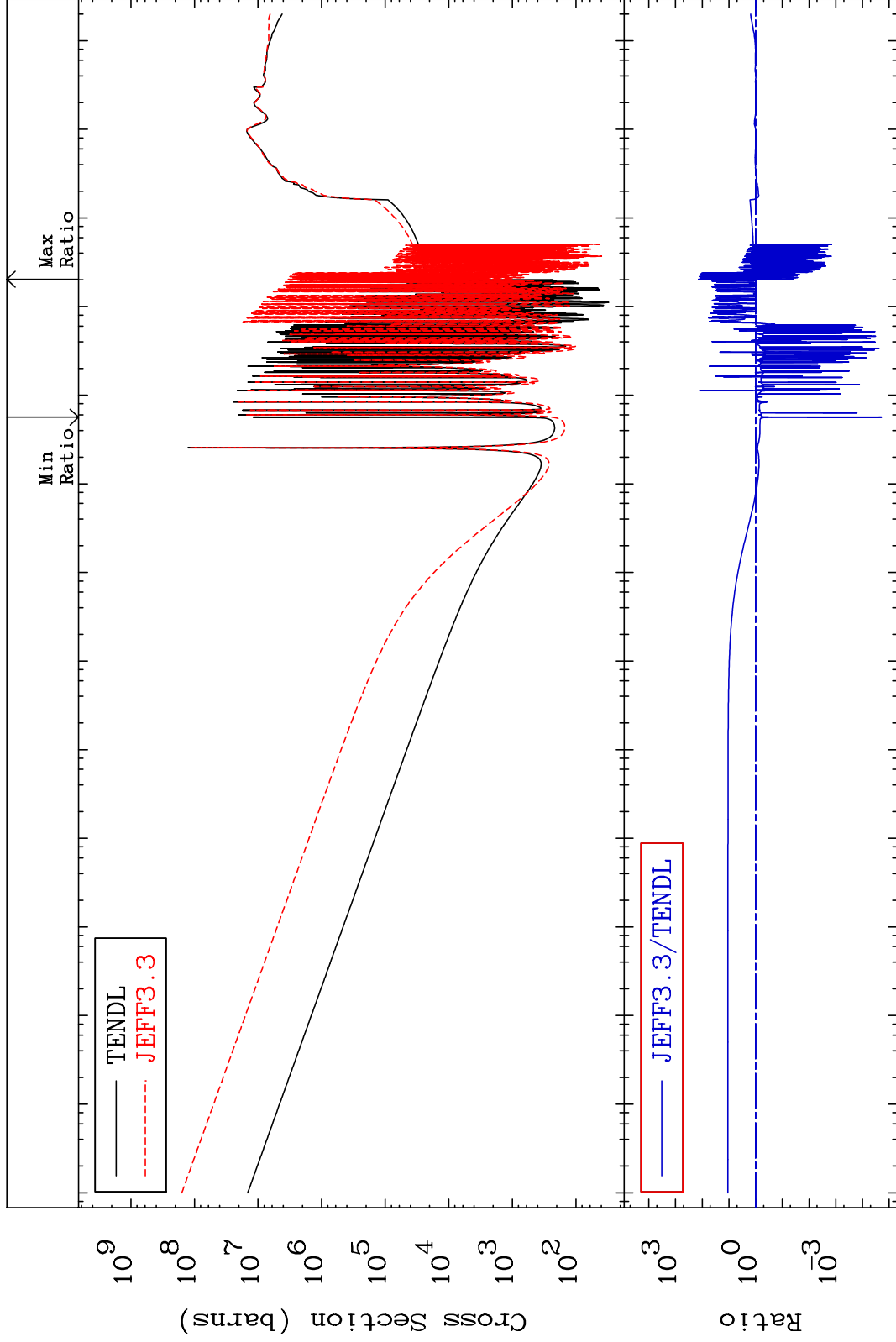
Incident Energy (eV)

58-Ce-140

MAT 5837

Total photon (eV-barns)
Cross Section

58-Ce-140
-100.0 To 9999. %



75

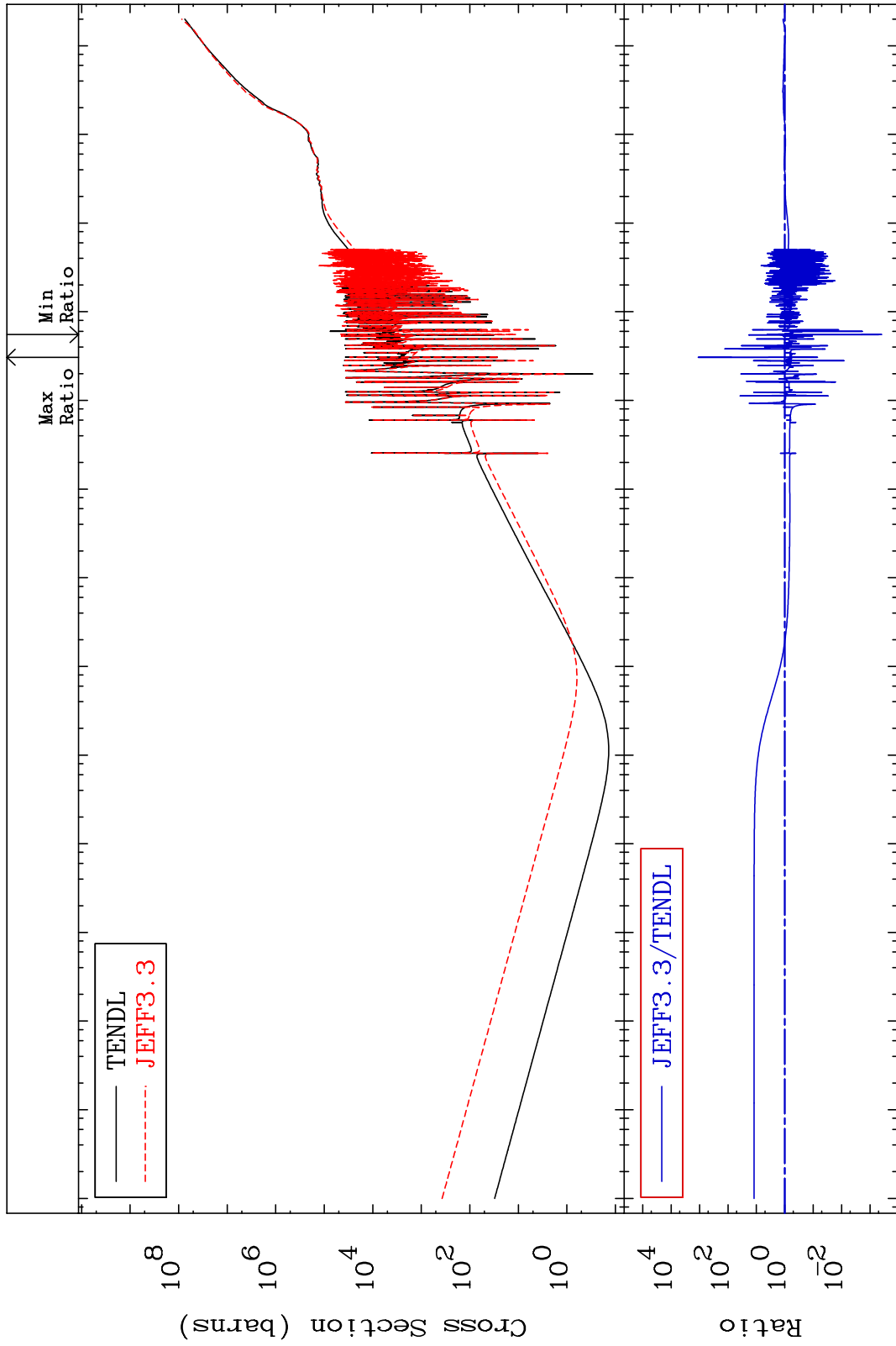
Incident Energy (eV)

58-Ce-140

MAT 5837

Total kinematic kerma (high limit)
Cross Section

58-Ce-140
-99.96 To 9999. %



76

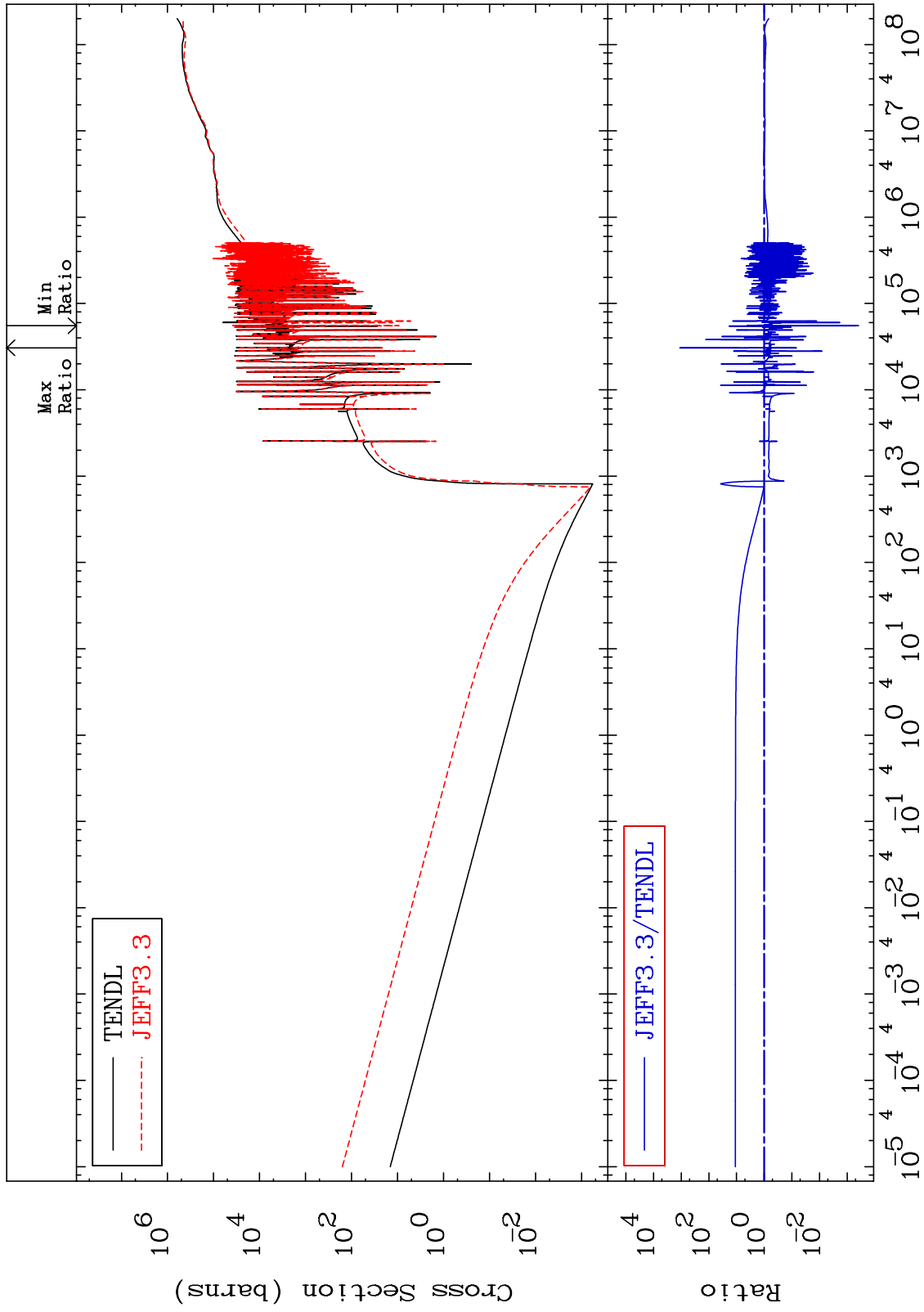
Incident Energy (eV)

58-Ce-140

MAT 5837

Dpa total (eV-barns)
Cross Section

58-Ce-140
-99.96 To 9999. %



77

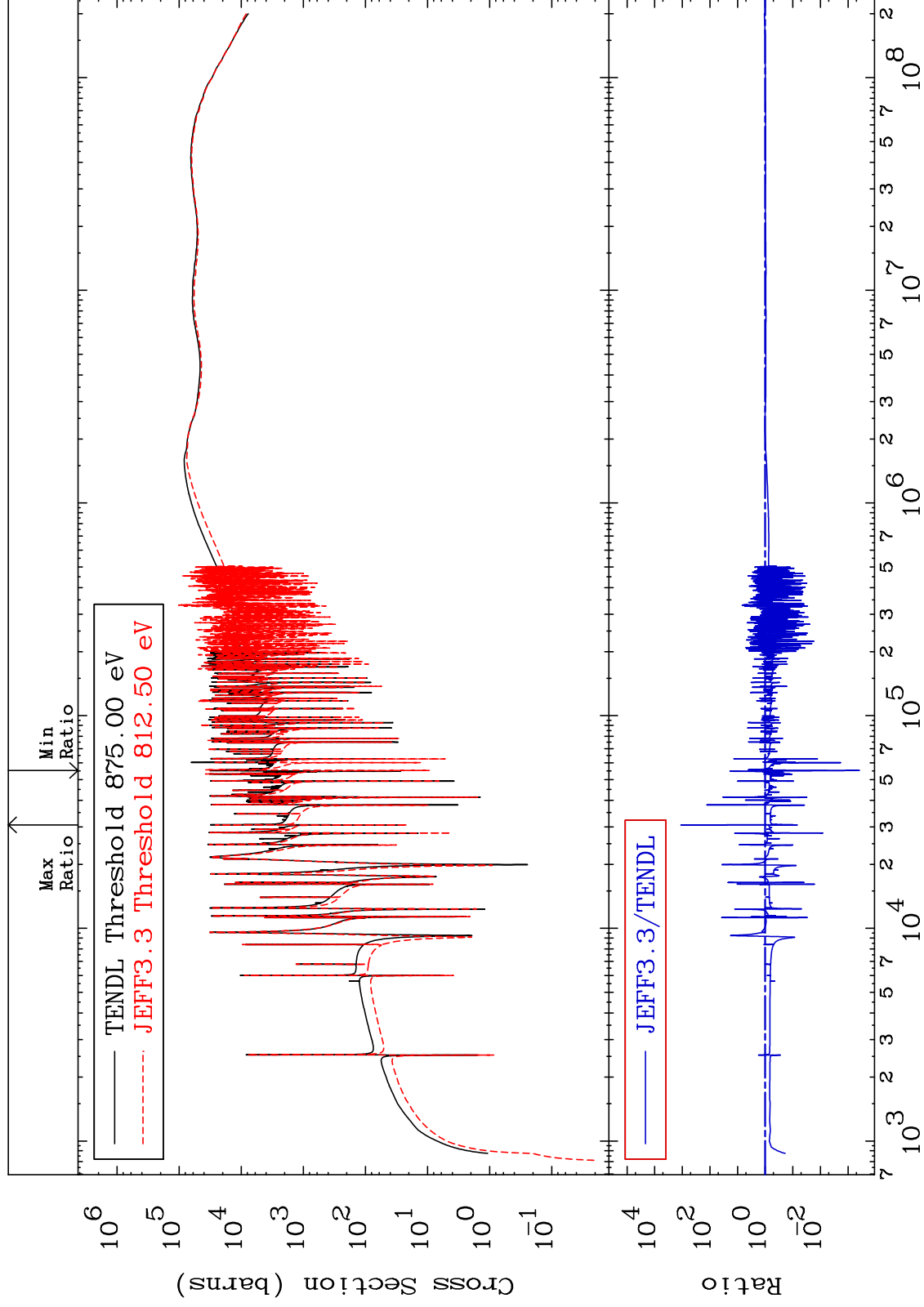
Incident Energy (eV)

58-Ce-140

MAT 5837

Dpa elastic (mt2)
Cross Section

58-Ce-140
-99.96 To 9999. %



78

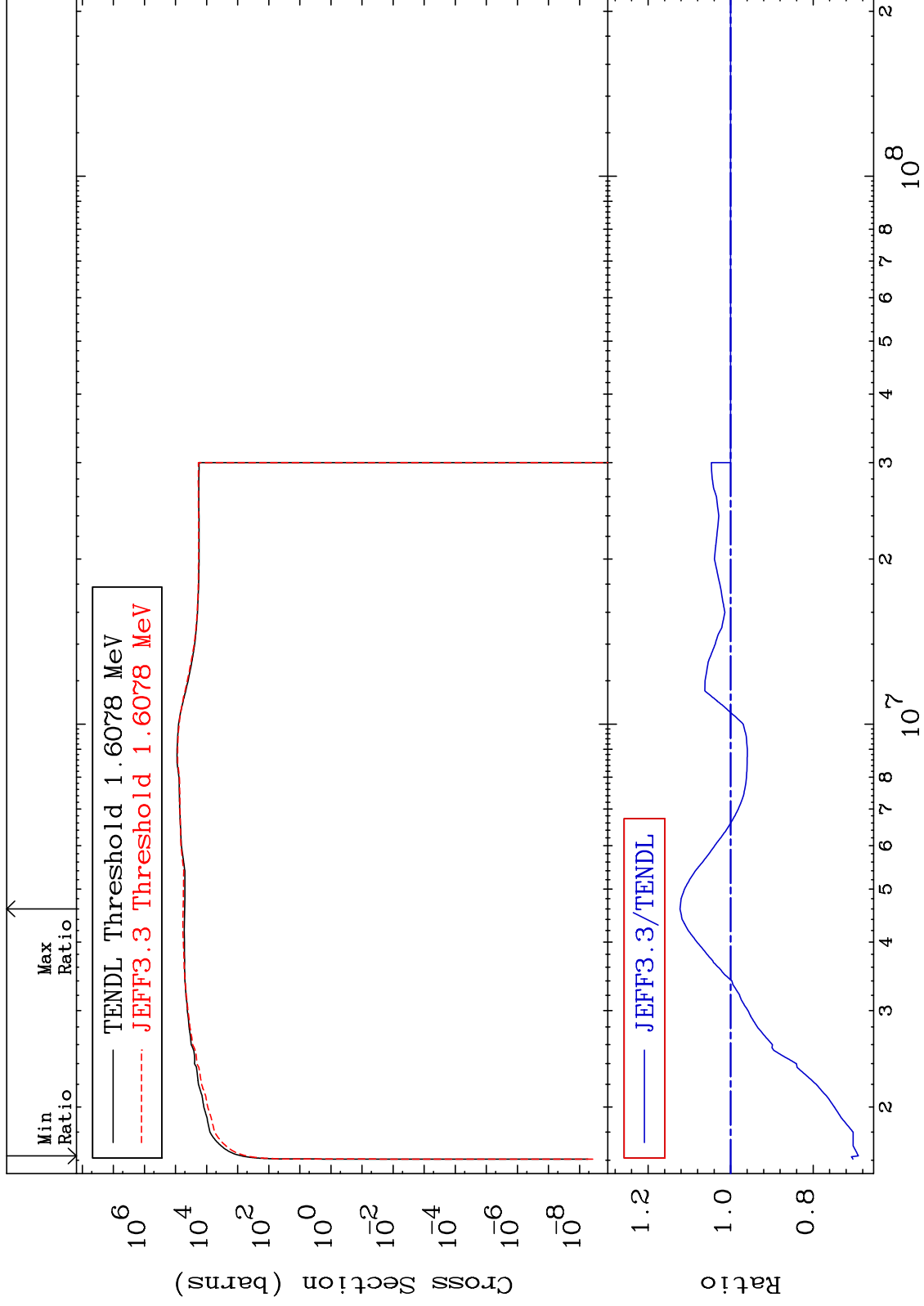
Incident Energy (eV)

58-Ce-140

MAT 5837

Dpa inelastic (mt51-91)
Cross Section

58-Ce-140
-30.96 To 12.27 %



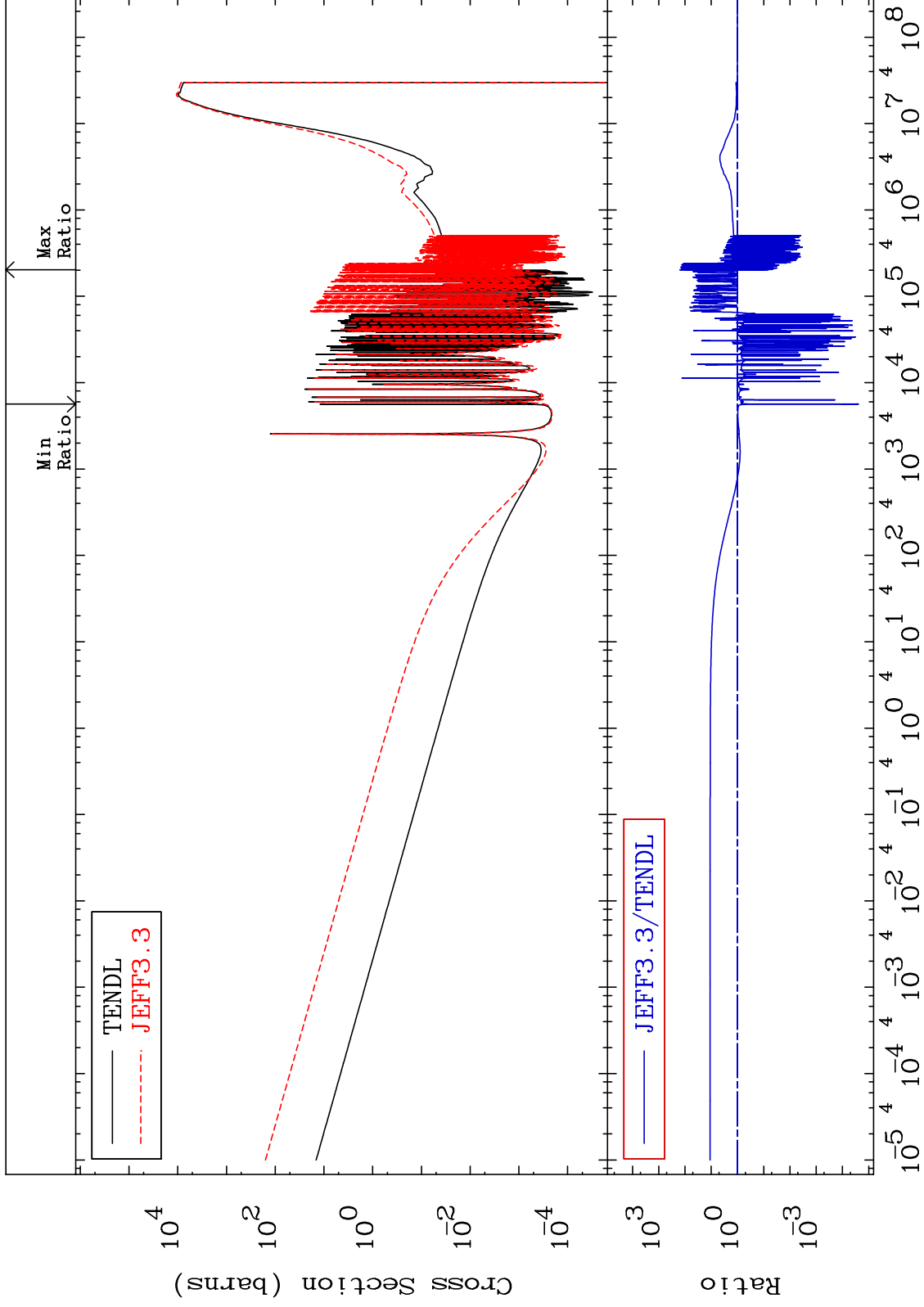
79

58-Ce-140

MAT 5837

Dpa disappearance (mt102 -120)
Cross Section

58-Ce-140
-100.0 To 9999. %

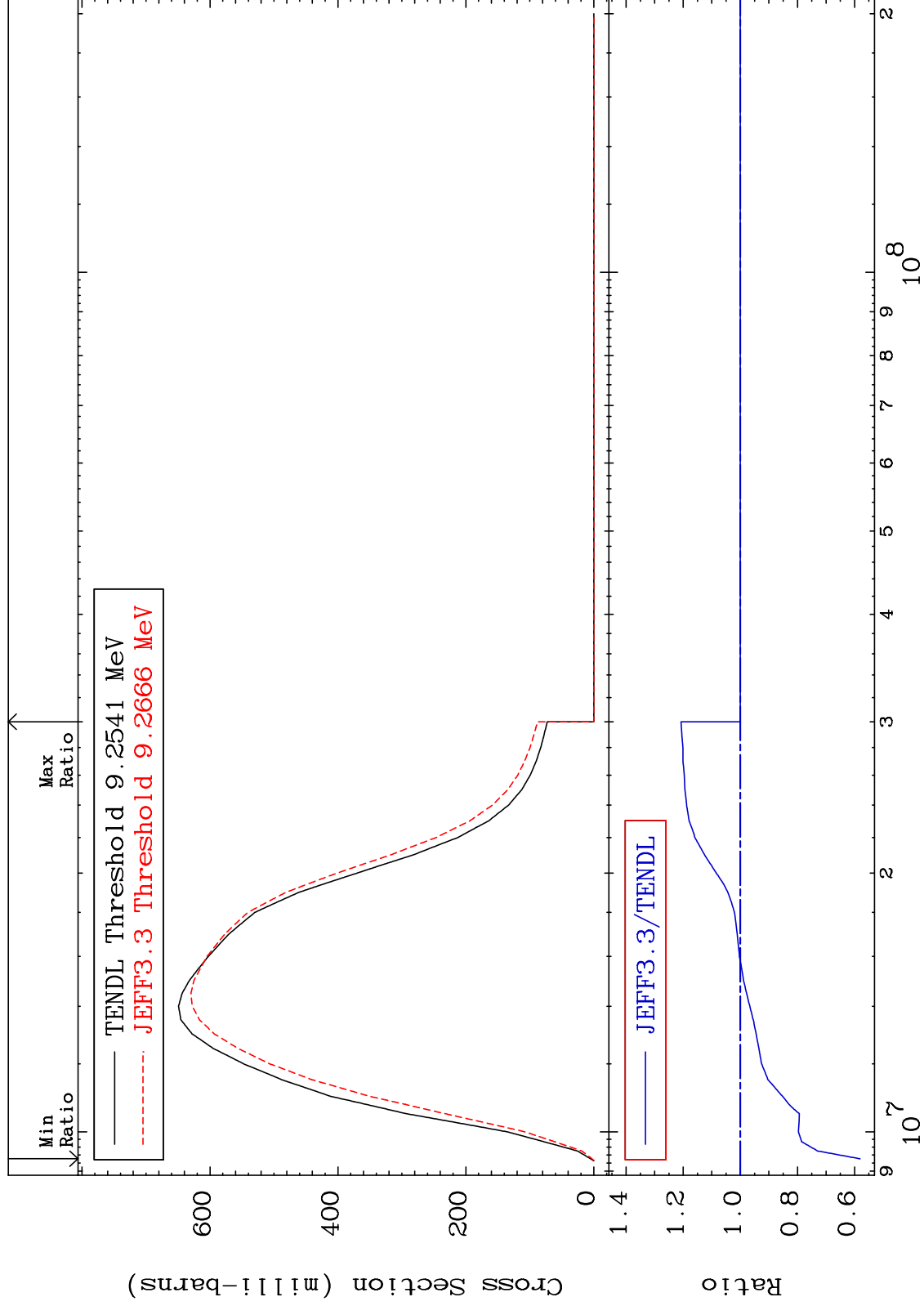


MAT 5837

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

58-Ce-140

Radionuclide Production Cross Section -41.65 To 20.77 %



81

Incident Energy (eV)

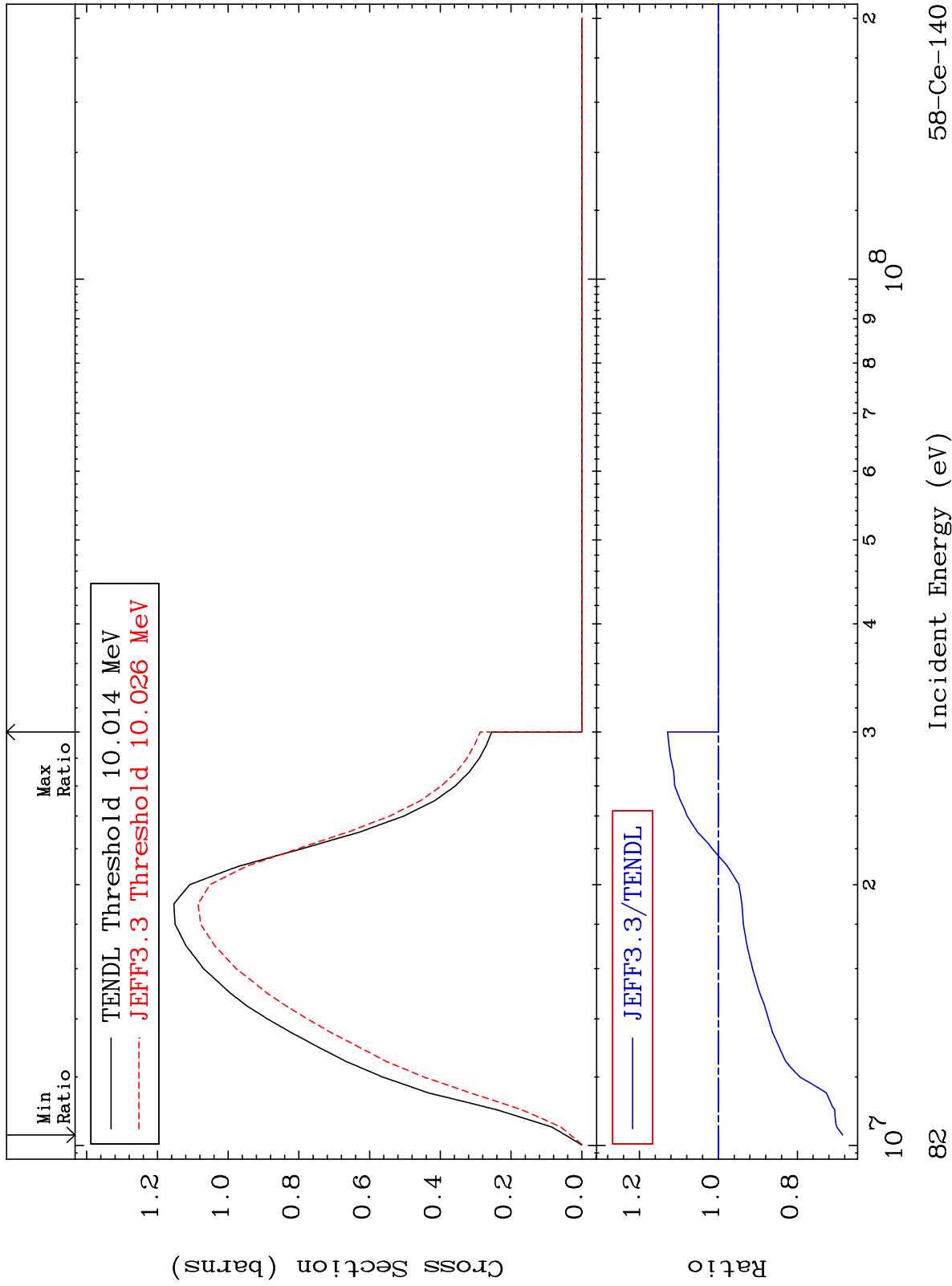
58-Ce-140

MAT 5837

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

58-Ce-140

Radionuclide Production Cross Section -31.47 To 12.87 %



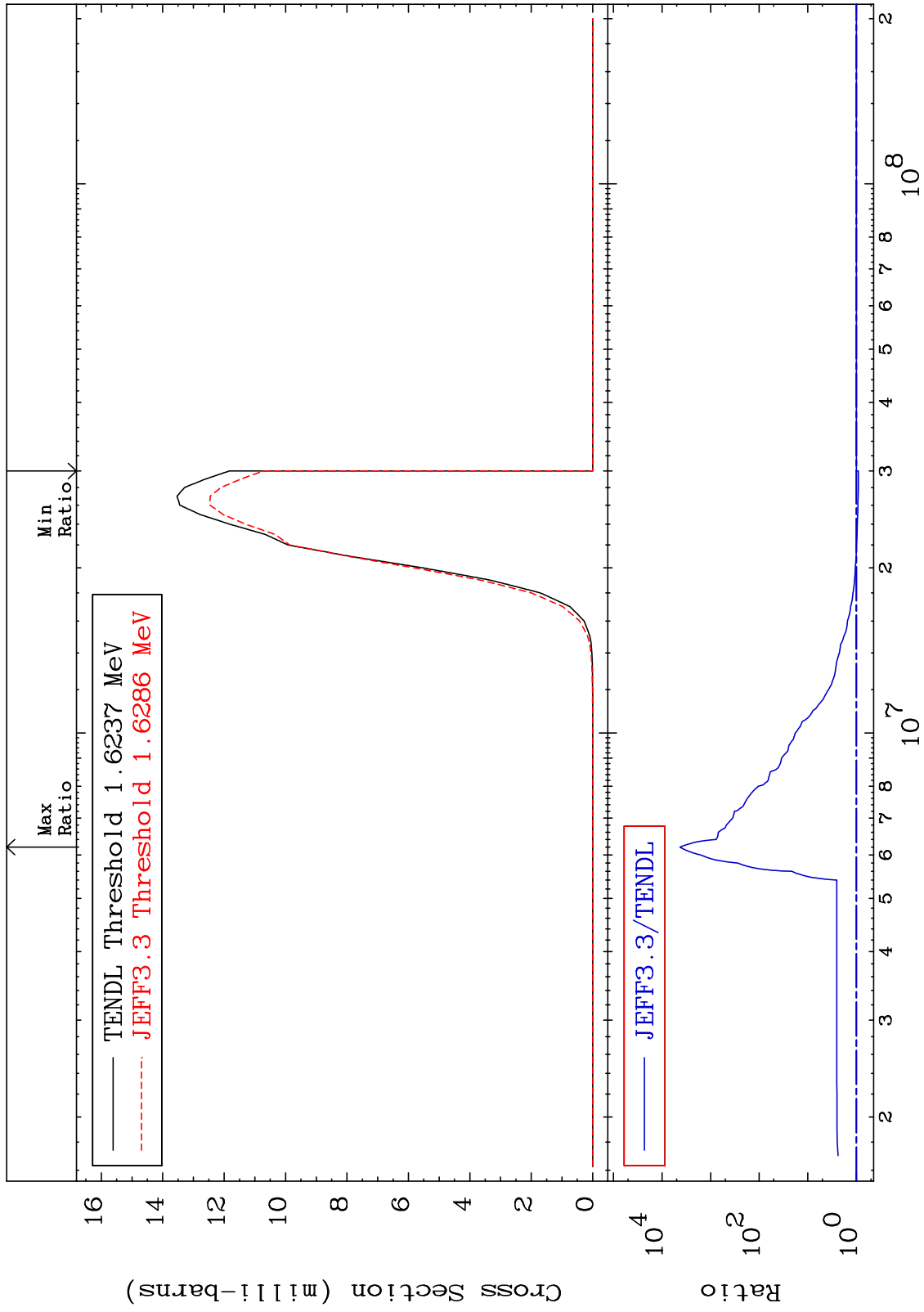
82

Incident Energy (eV)

58-Ce-140

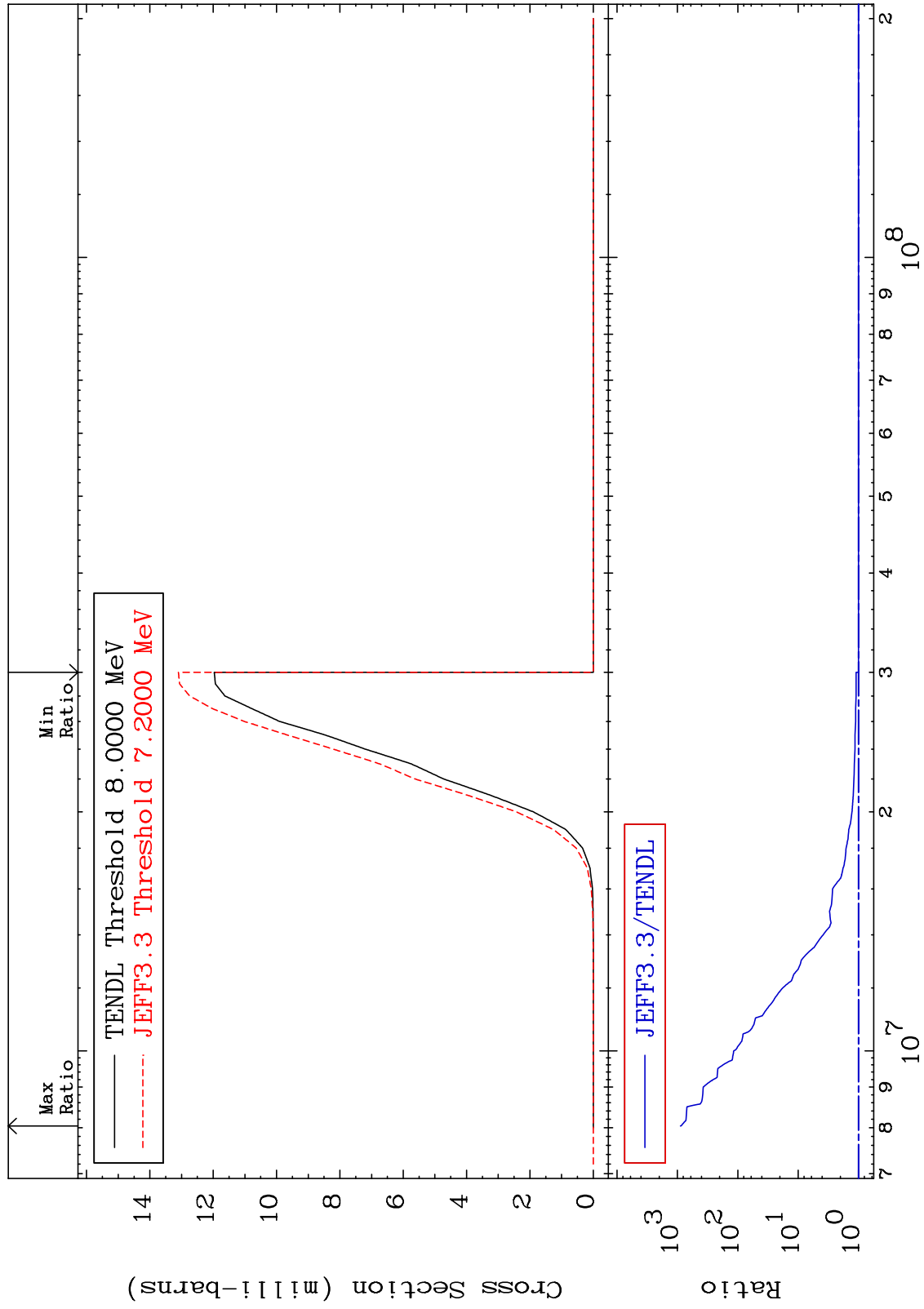
MAT 5837

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



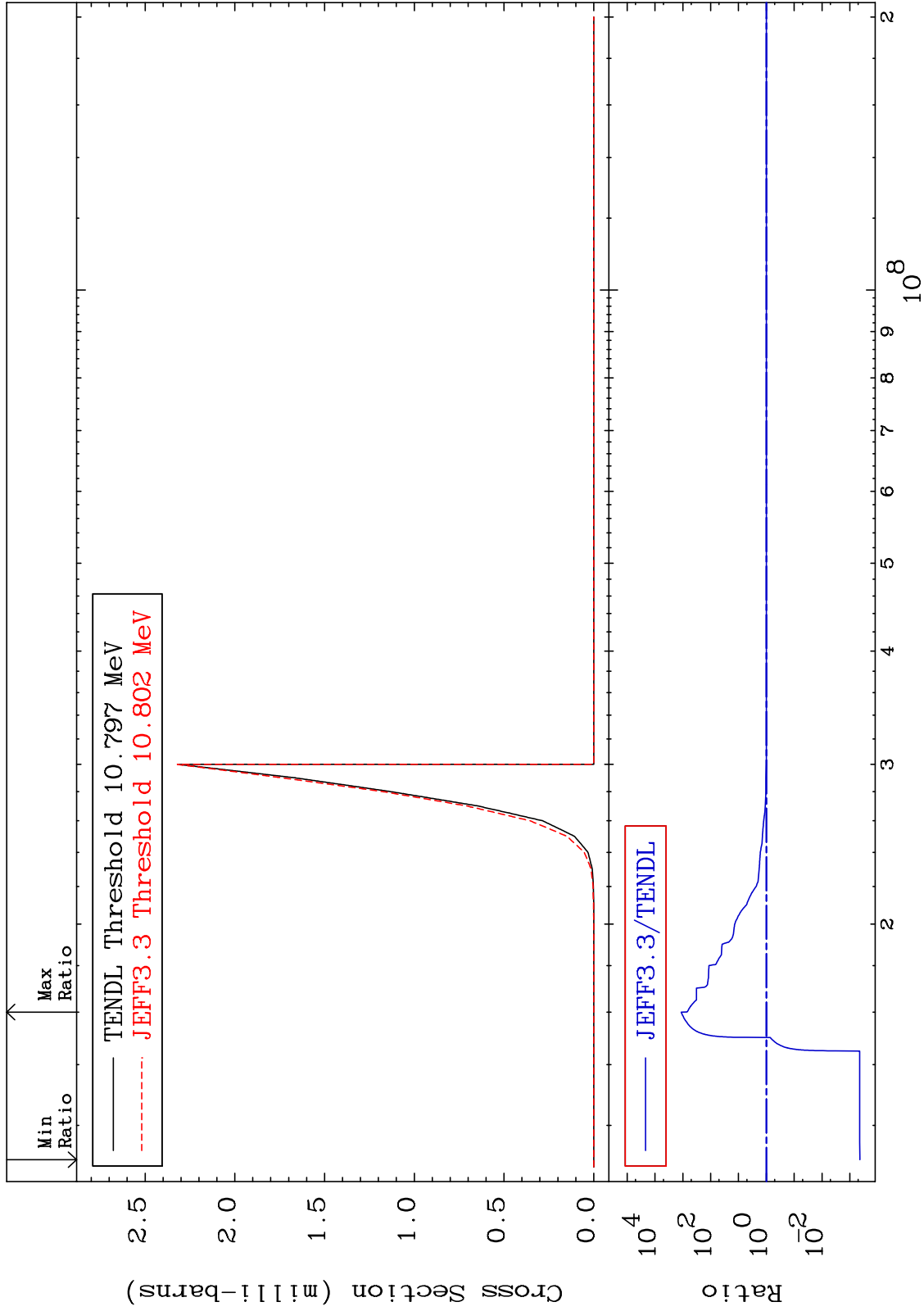
MAT 5837

(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. %

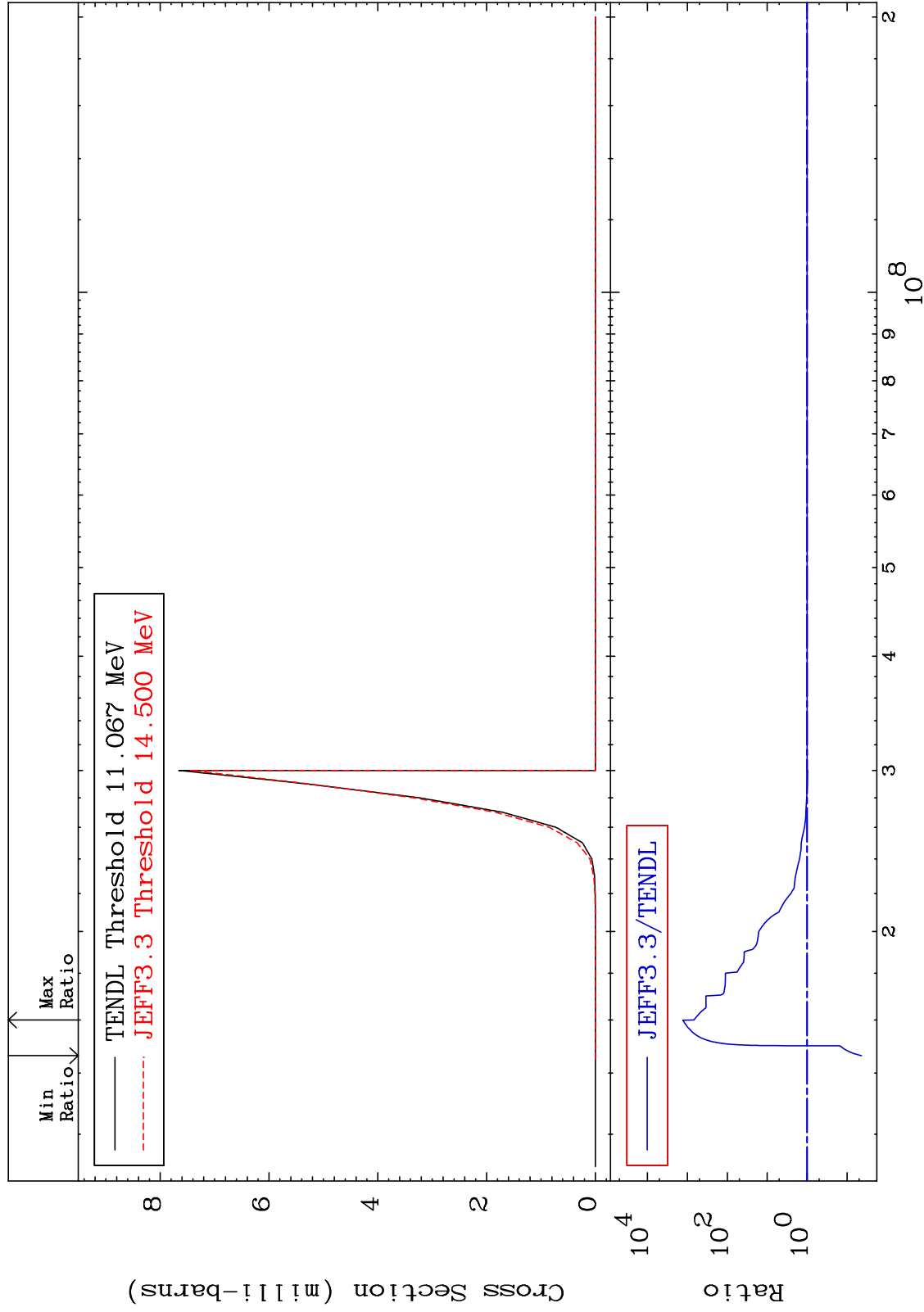


MAT 5837

(n,2n) α :56-Ba-135m2

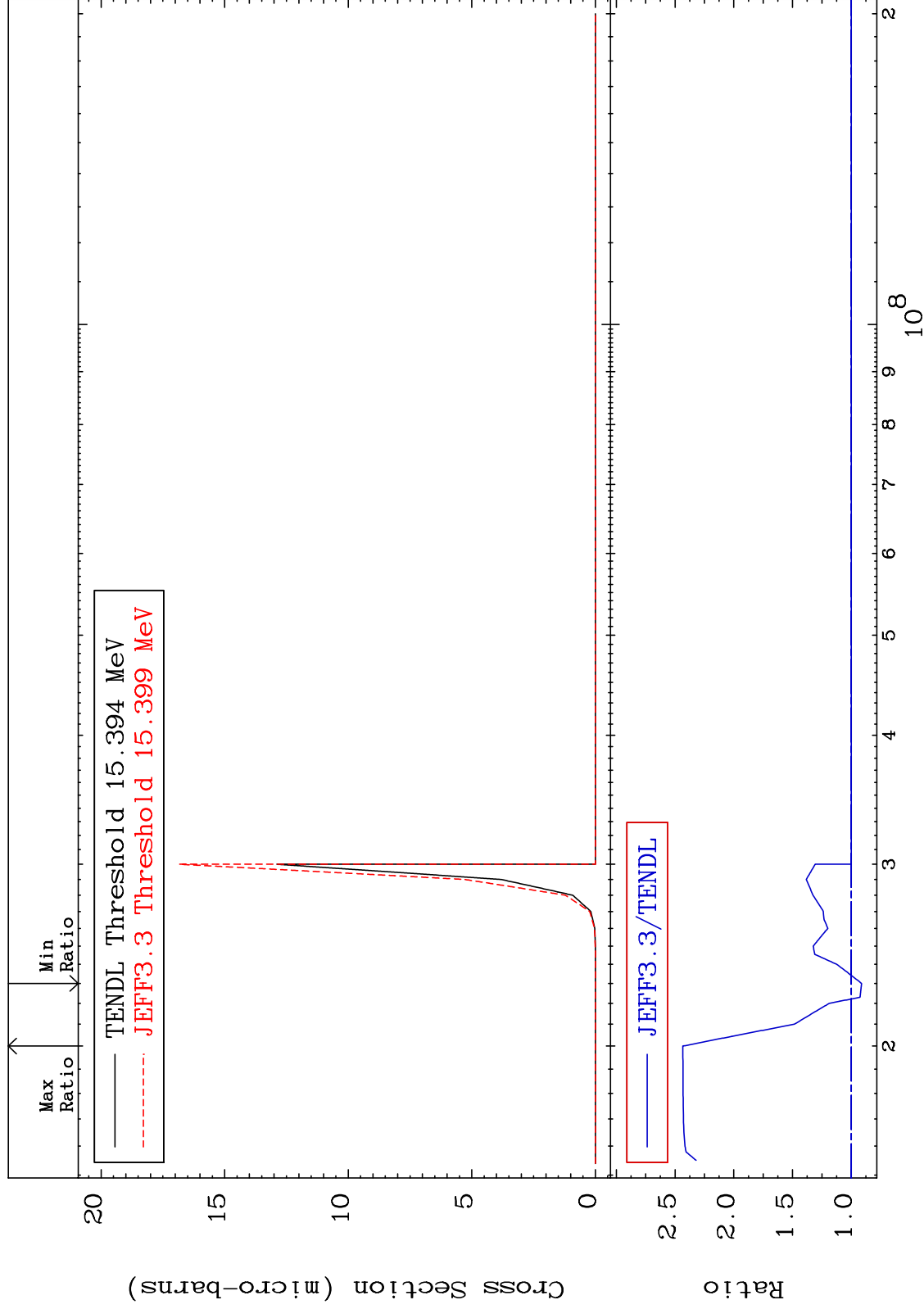
58-Ce-140

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)

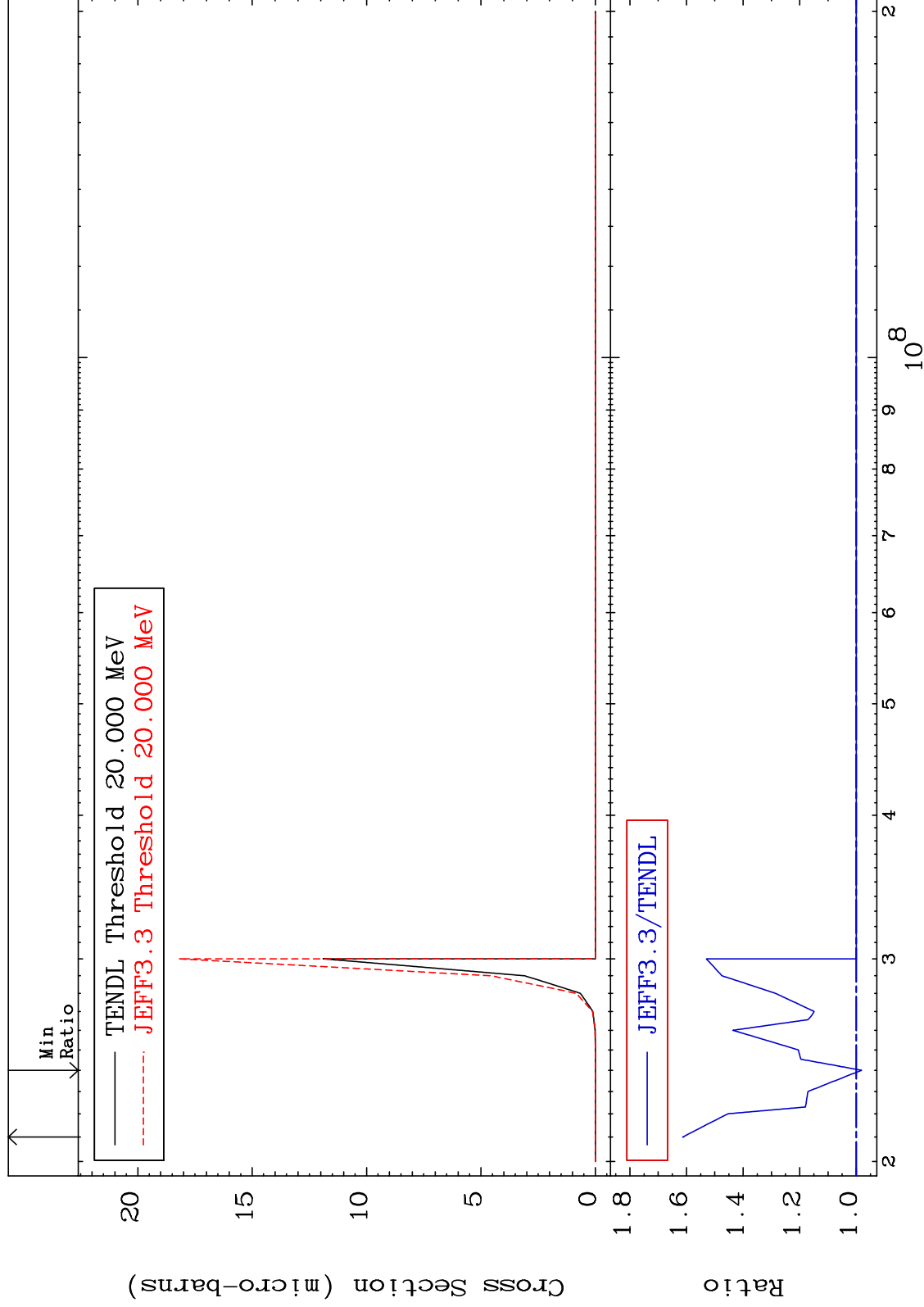
58-Ce-140

MAT 5837

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

58-Ce-140

Radionuclide Production Cross Section -1.853 To 61.28 %



88

Incident Energy (eV)

58-Ce-140

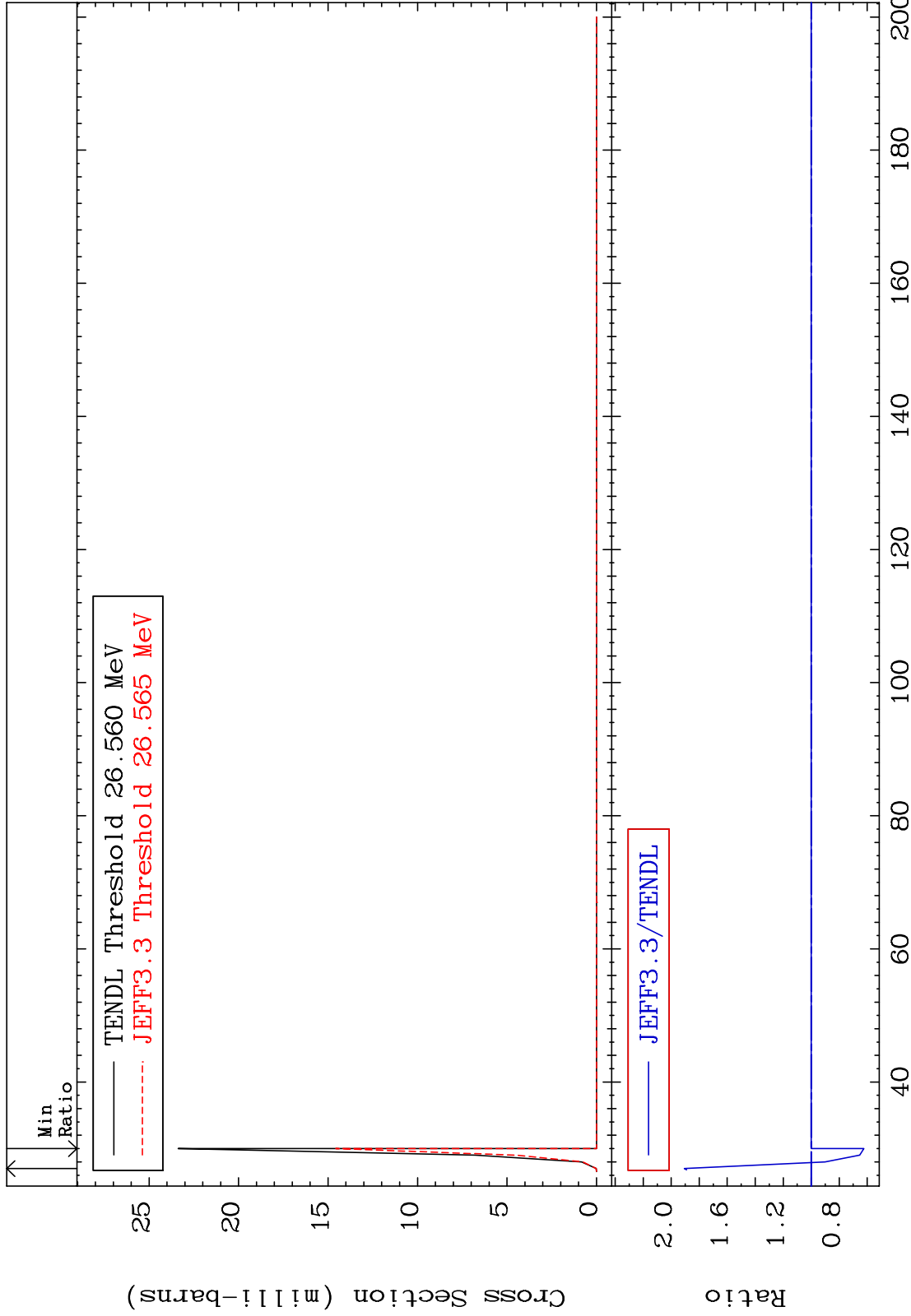
MAT 5837

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

58-Ce-140

Radionuclide Production Cross Section

-37.66 To 90.61 %



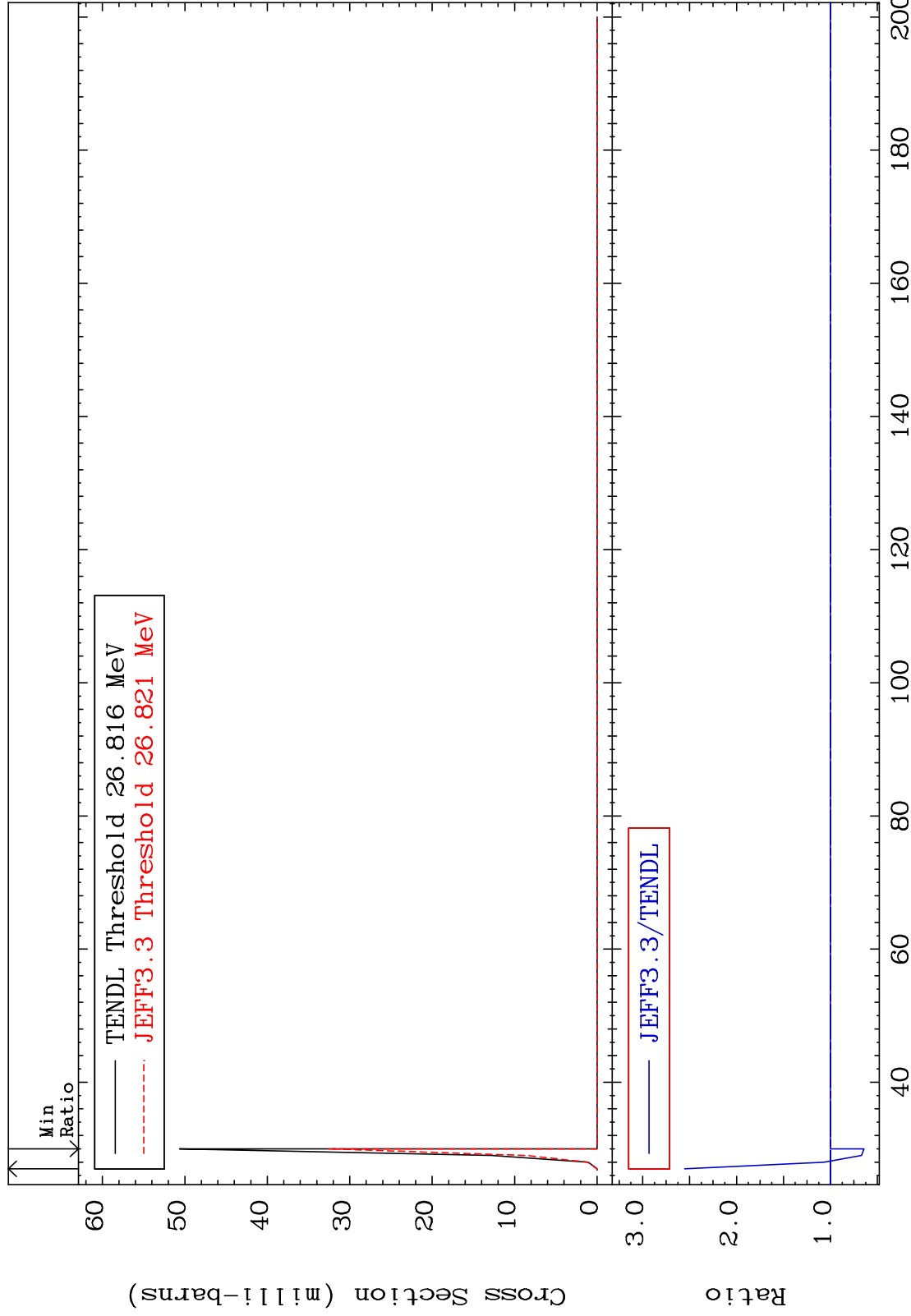
MAT 5837

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

58-Ce-140

Radionuclide Production Cross Section

-35.73 To 155.1 %



90

Incident Energy (MeV)

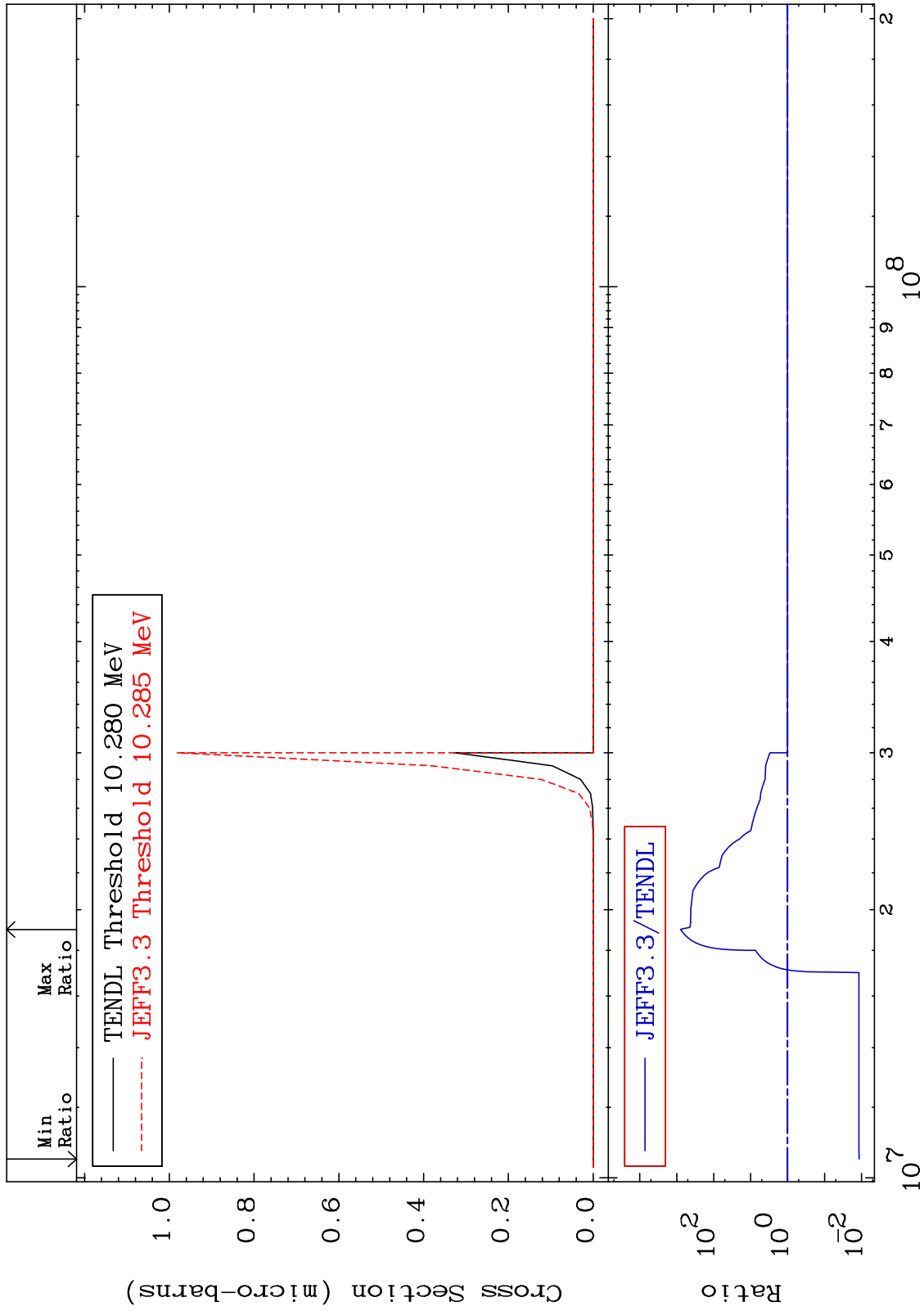
58-Ce-140

MAT 5837

(n, n') p α :55-Cs-135g

58-Ce-140

Radionuclide Production Cross Section -98.84 To 9999. %



91

Incident Energy (eV)

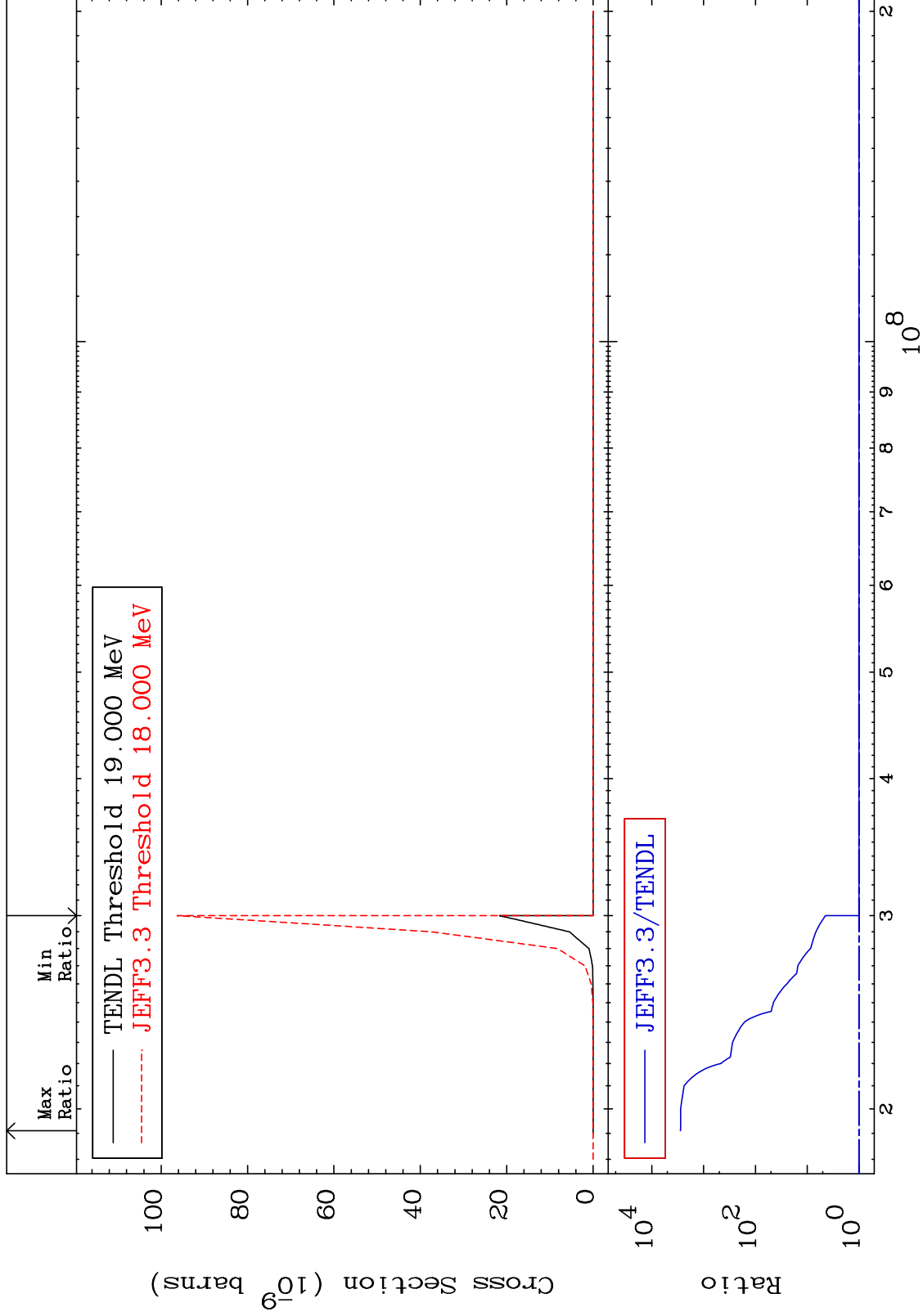
58-Ce-140

MAT 5837

(n, n') p α :55-Cs-135m10

58-Ce-140

Radionuclide Production Cross Section 0.000 To 9999. %



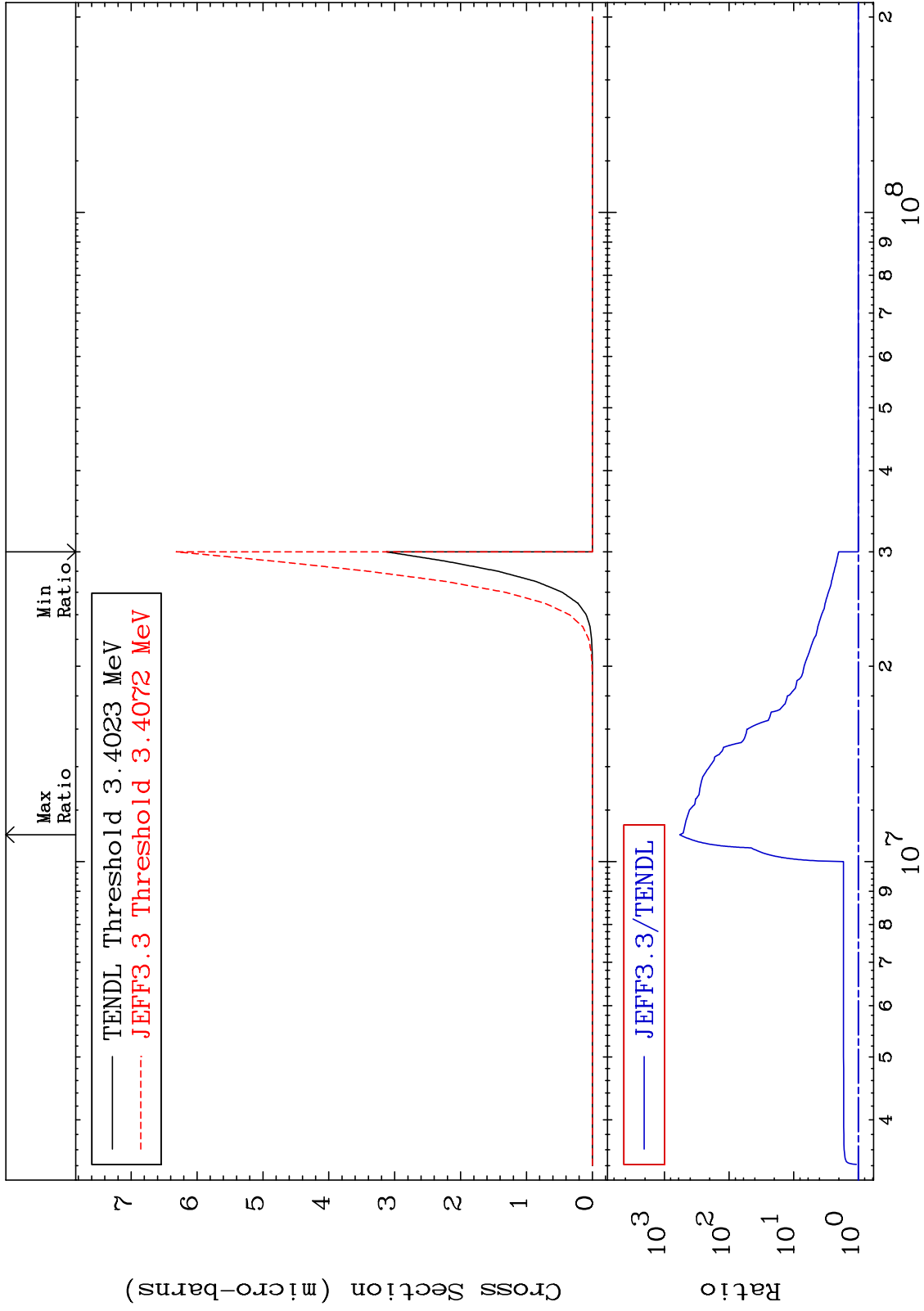
92

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. %

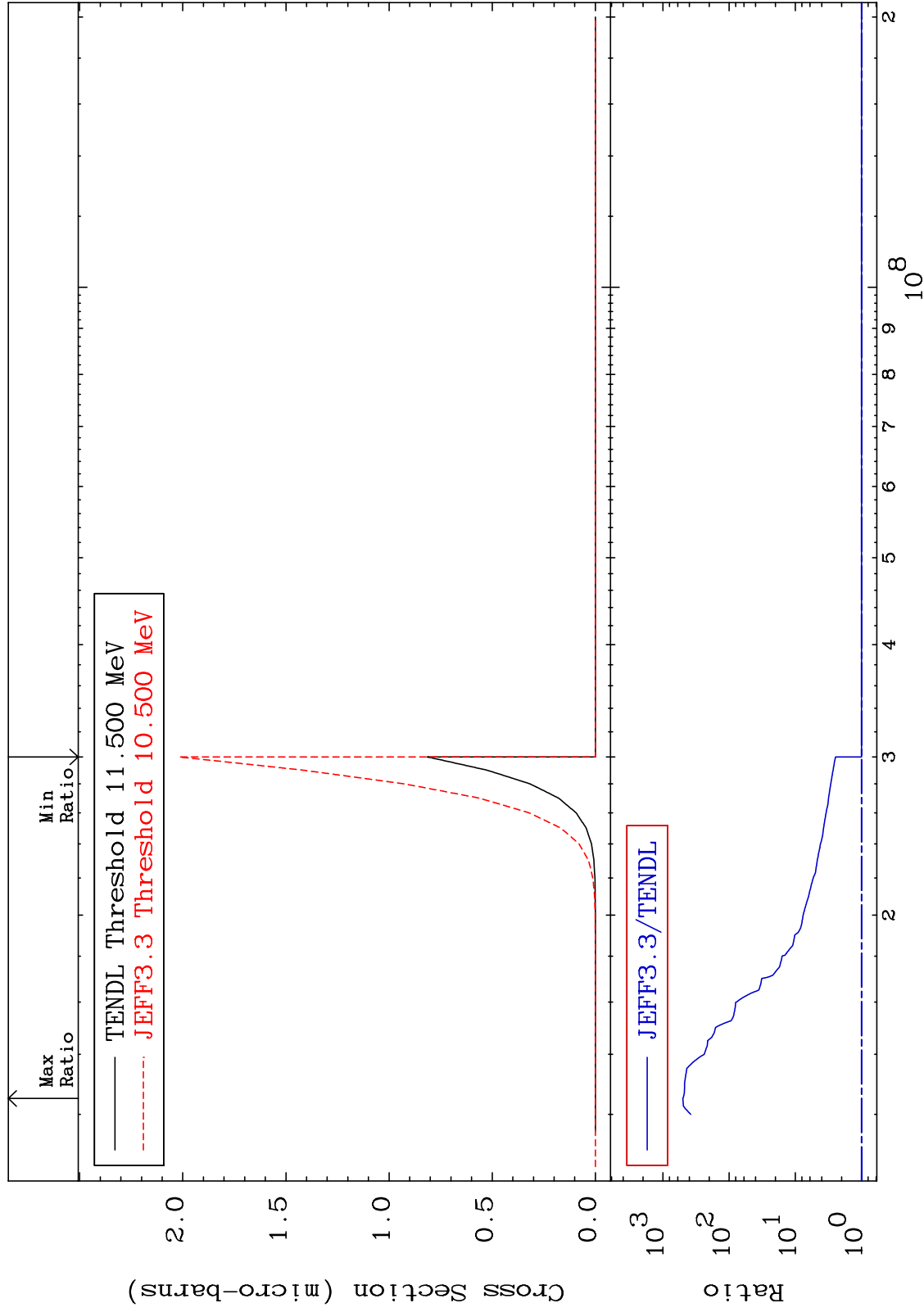


MAT 5837

(n, p) α :55-Cs-136m1

58-Ce-140

Radionuclide Production Cross Section 0.000 To 9999. %

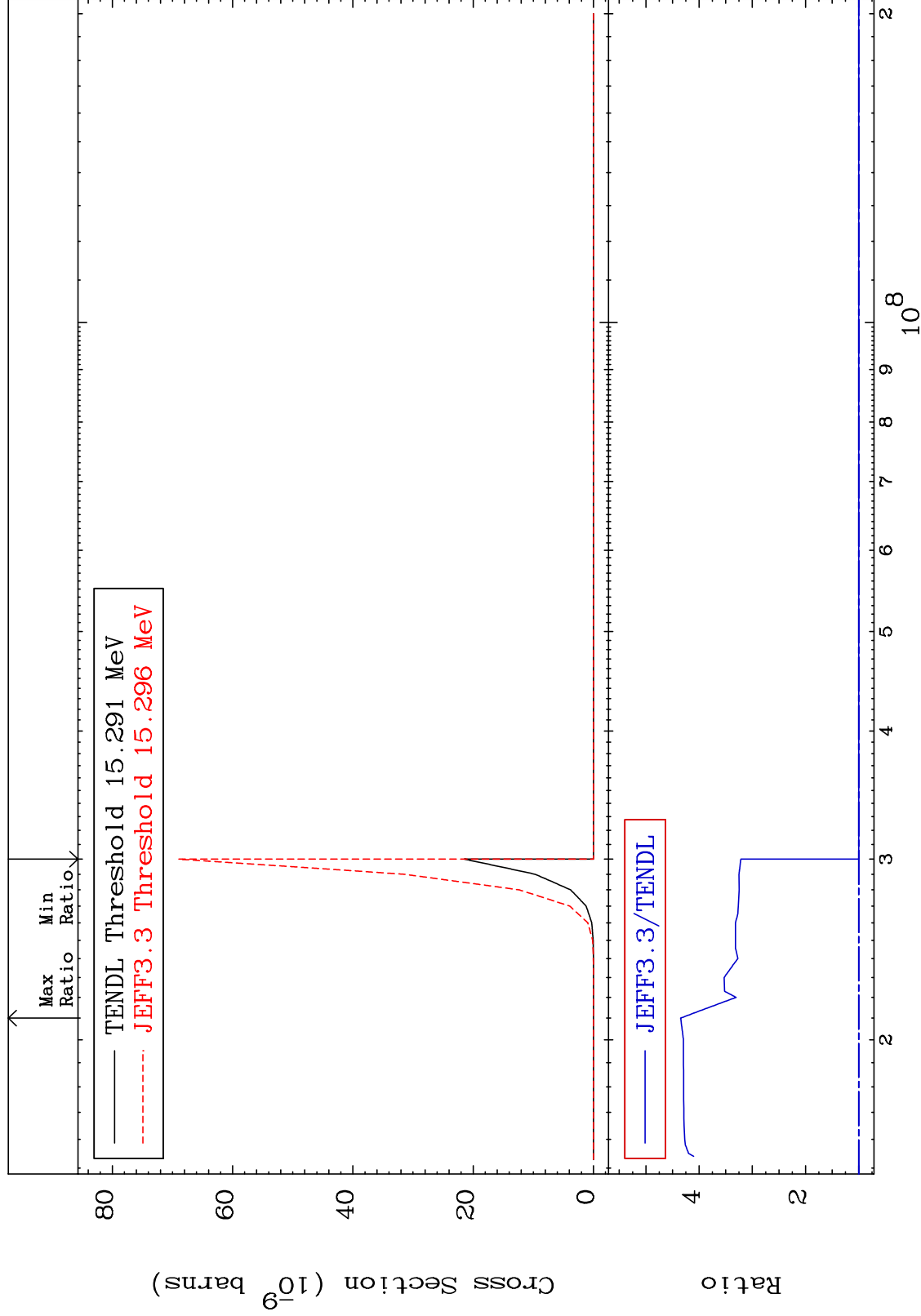


MAT 5837

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

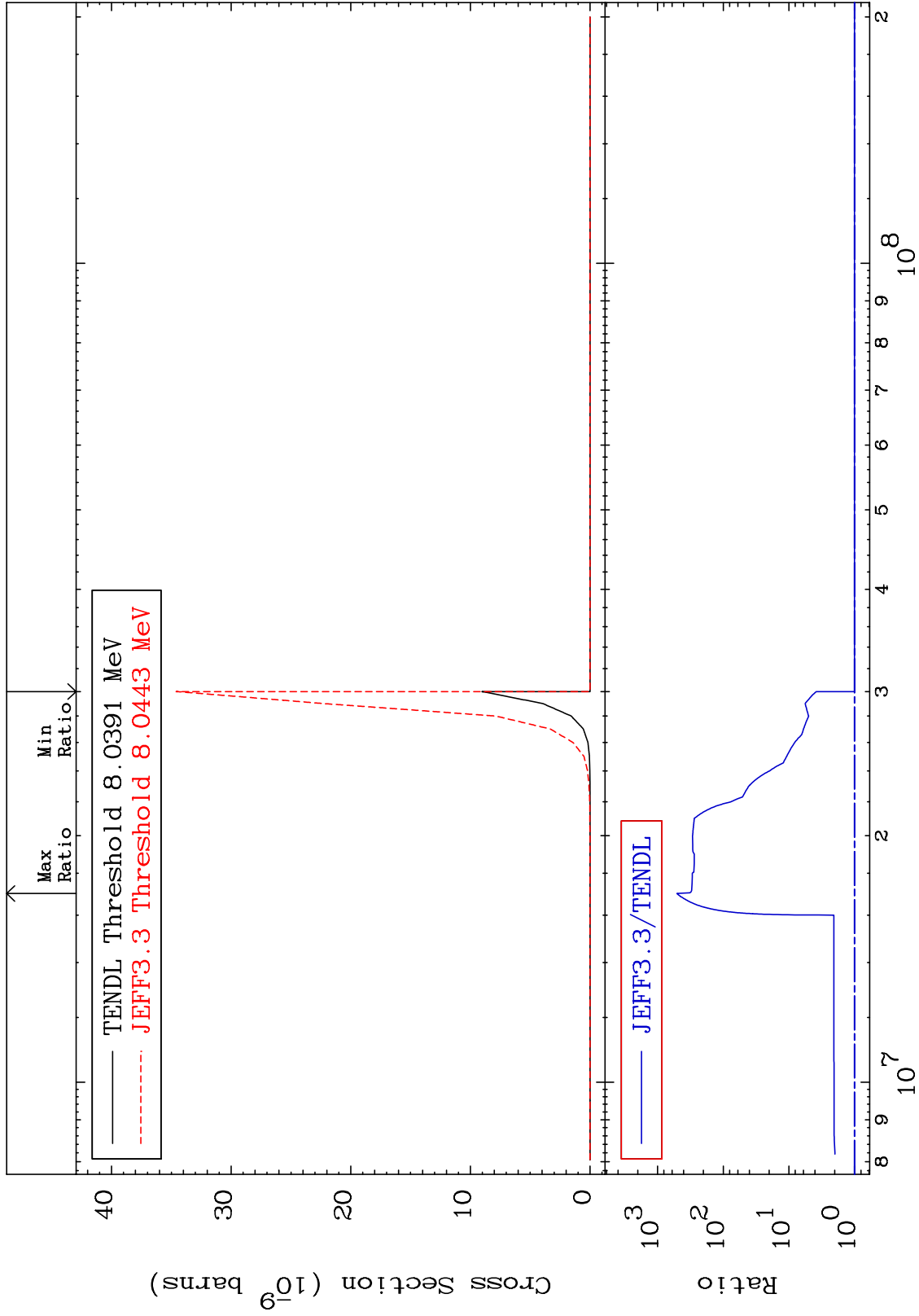
58-Ce-140

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. %

