

Program Complot
(Version 2018-1)

by

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Press Mouse Button to Start

MAT 5722

57-La-137

-97.55 To 9999. %

Total
Cross Section

Max
Ratio

Min
Ratio

TENDL
JEFF3.3

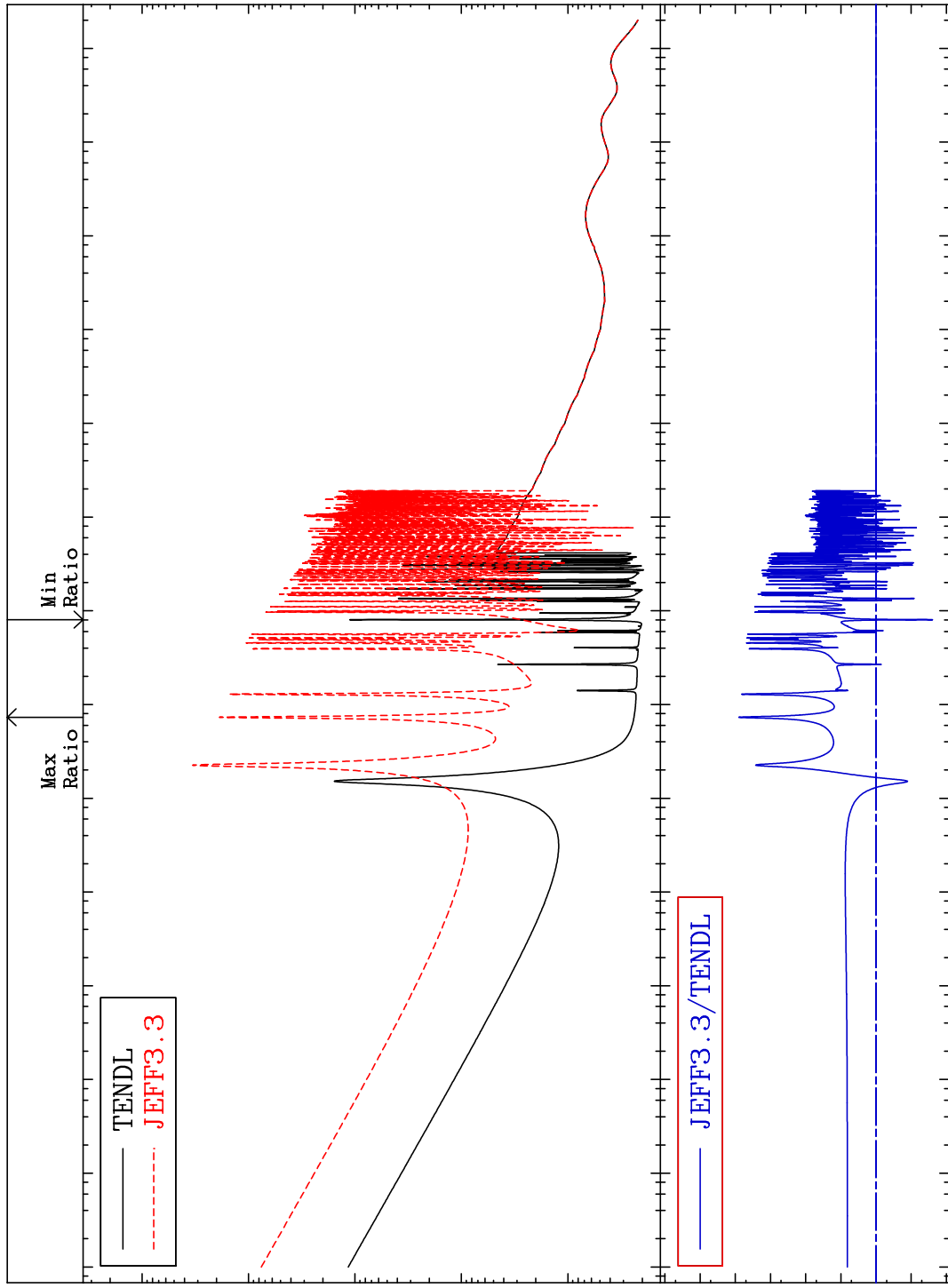
Cross Section (barns)

JEFF3.3/TENDL

Ratio

Incident Energy (eV)

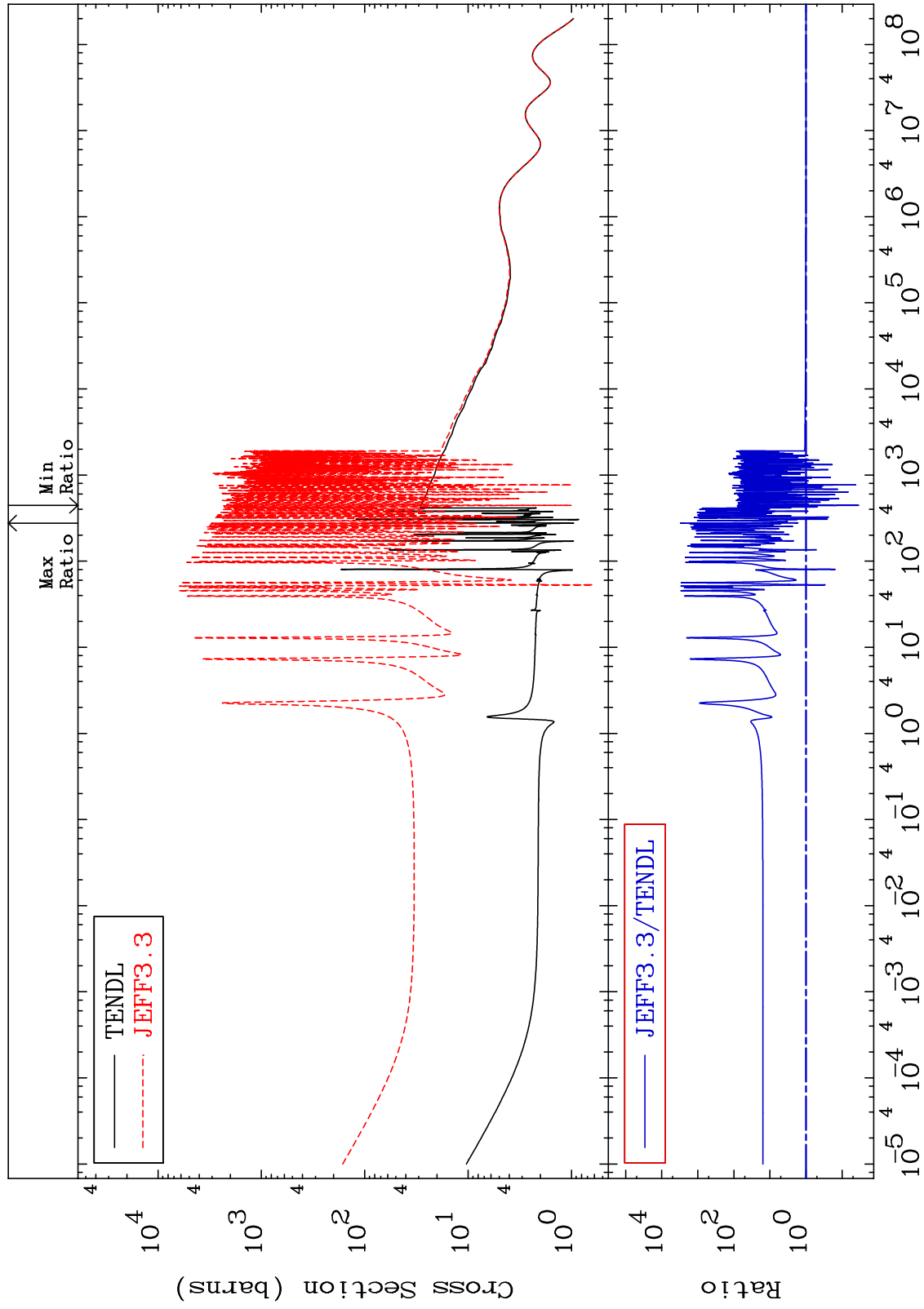
57-La-137



MAT 5722

Elastic
Cross Section

57-La-137
-96.49 To 9999. %



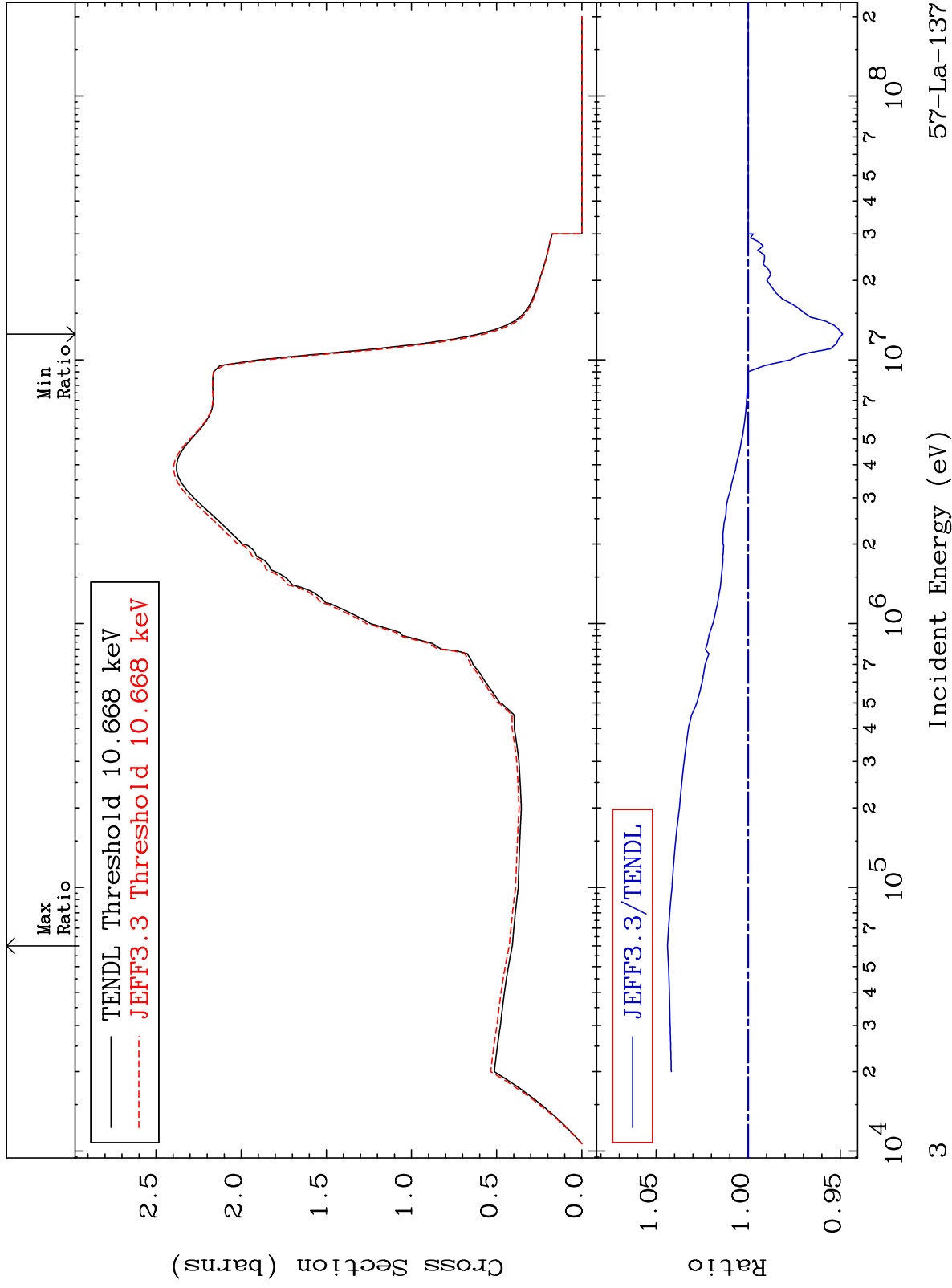
— TENDL
- - - JEFF3.3

— JEFF3.3/TENDL

MAT 5722

Inelastic
Cross Section

57-La-137
-5.134 To 4.382 %



Incident Energy (eV)

57-La-137

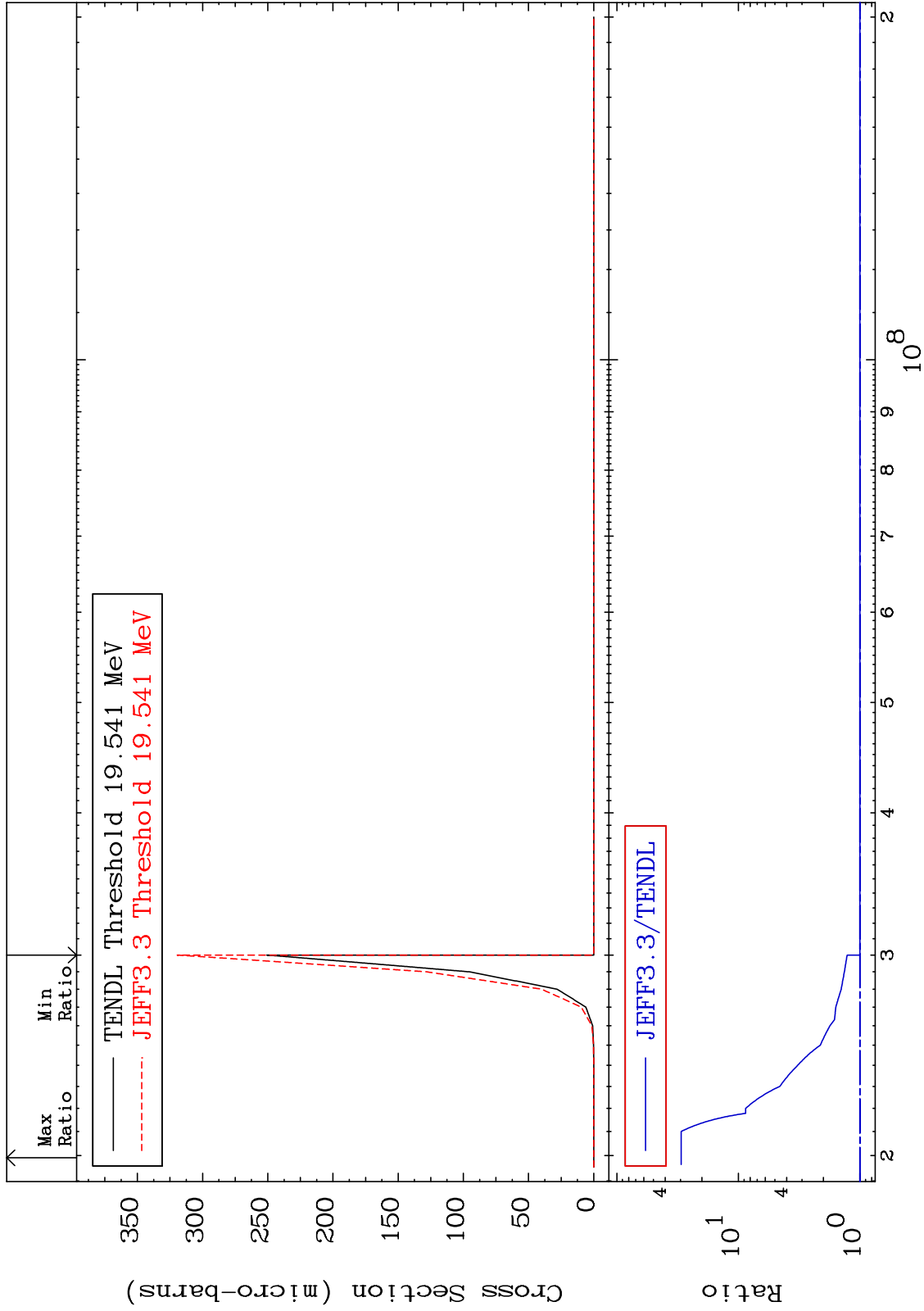
MAT 5722

(n,2n) d

57-La-137

Cross Section

0.000 To 2856. %



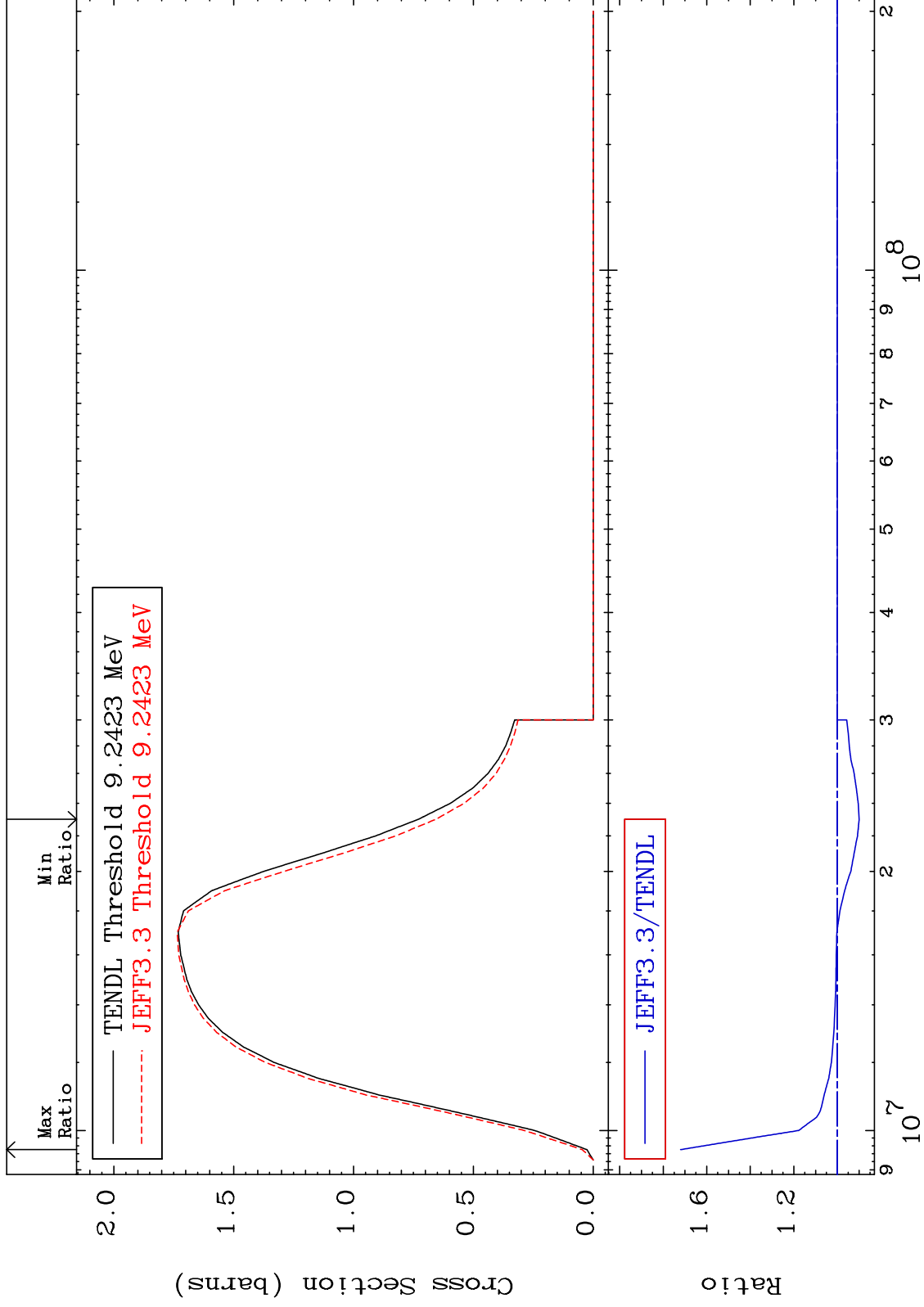
MAT 5722

(n, 2n)

57-La-137

Cross Section

-10.02 To 72.01 %



Incident Energy (eV)

57-La-137

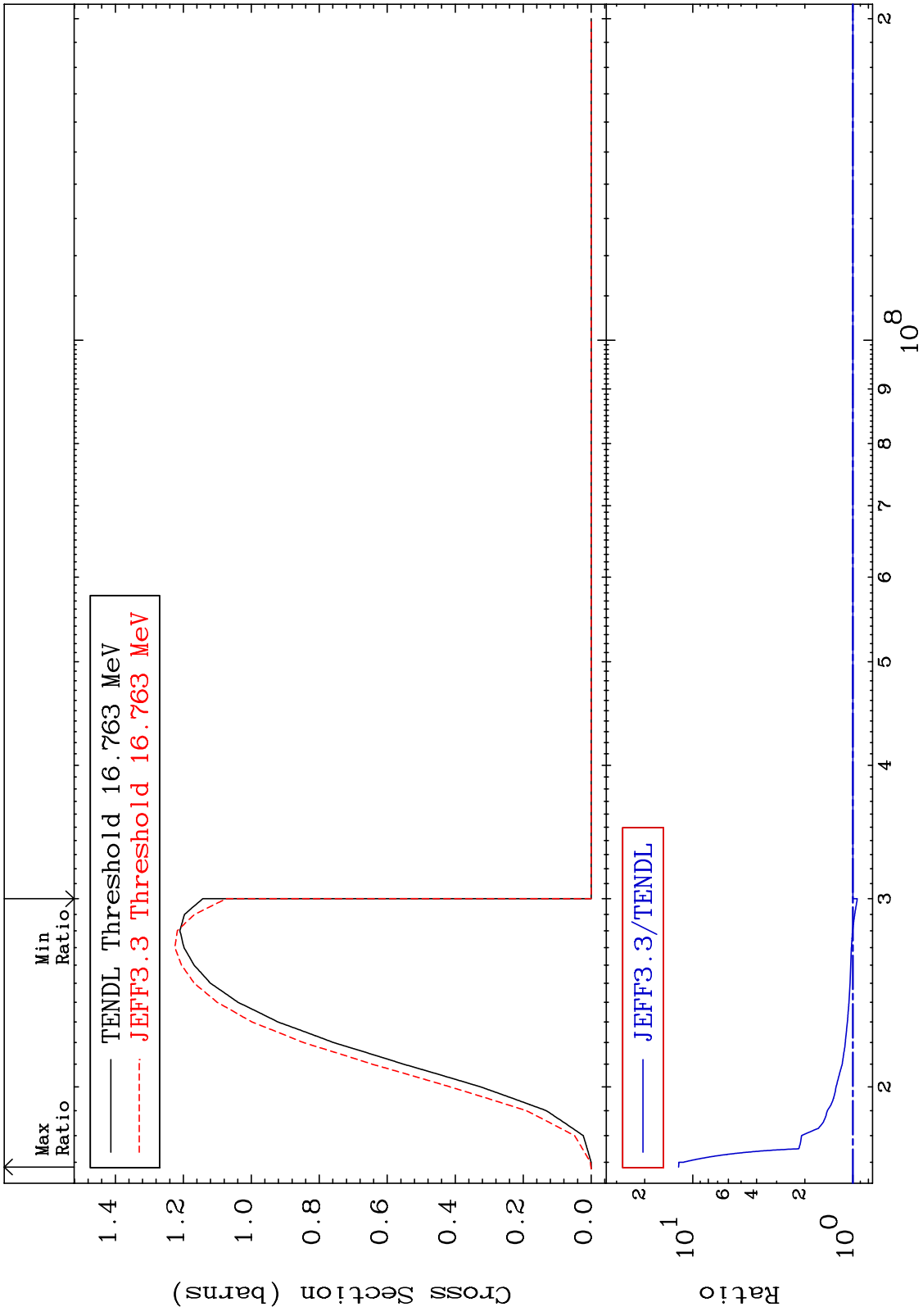
MAT 5722

(n, 3n)

57-La-137

Cross Section

-6.057 To 1127. %



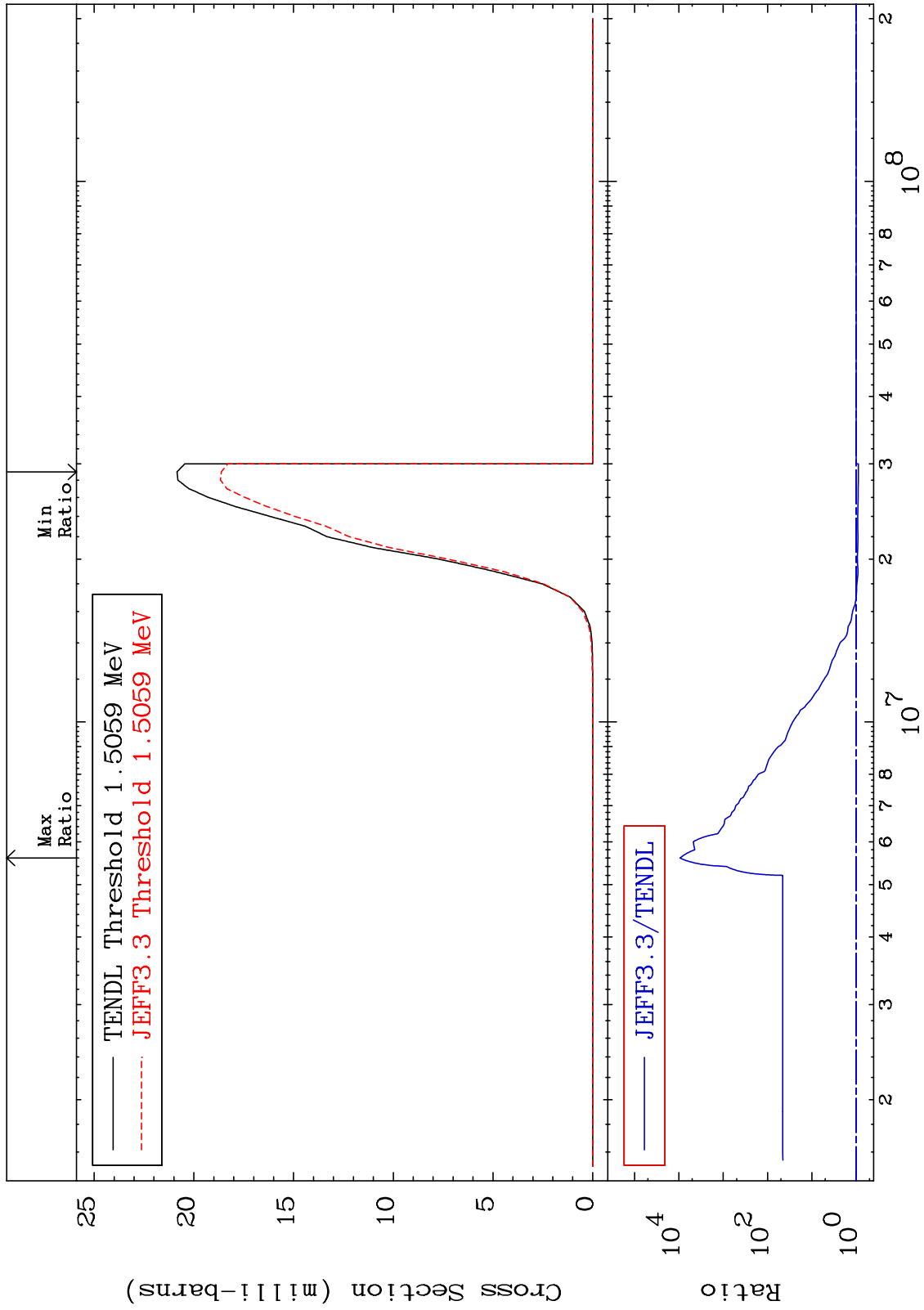
MAT 5722

(n,n') α

57-La-137

-10.66 To 9999. %

Cross Section



MAT 5722

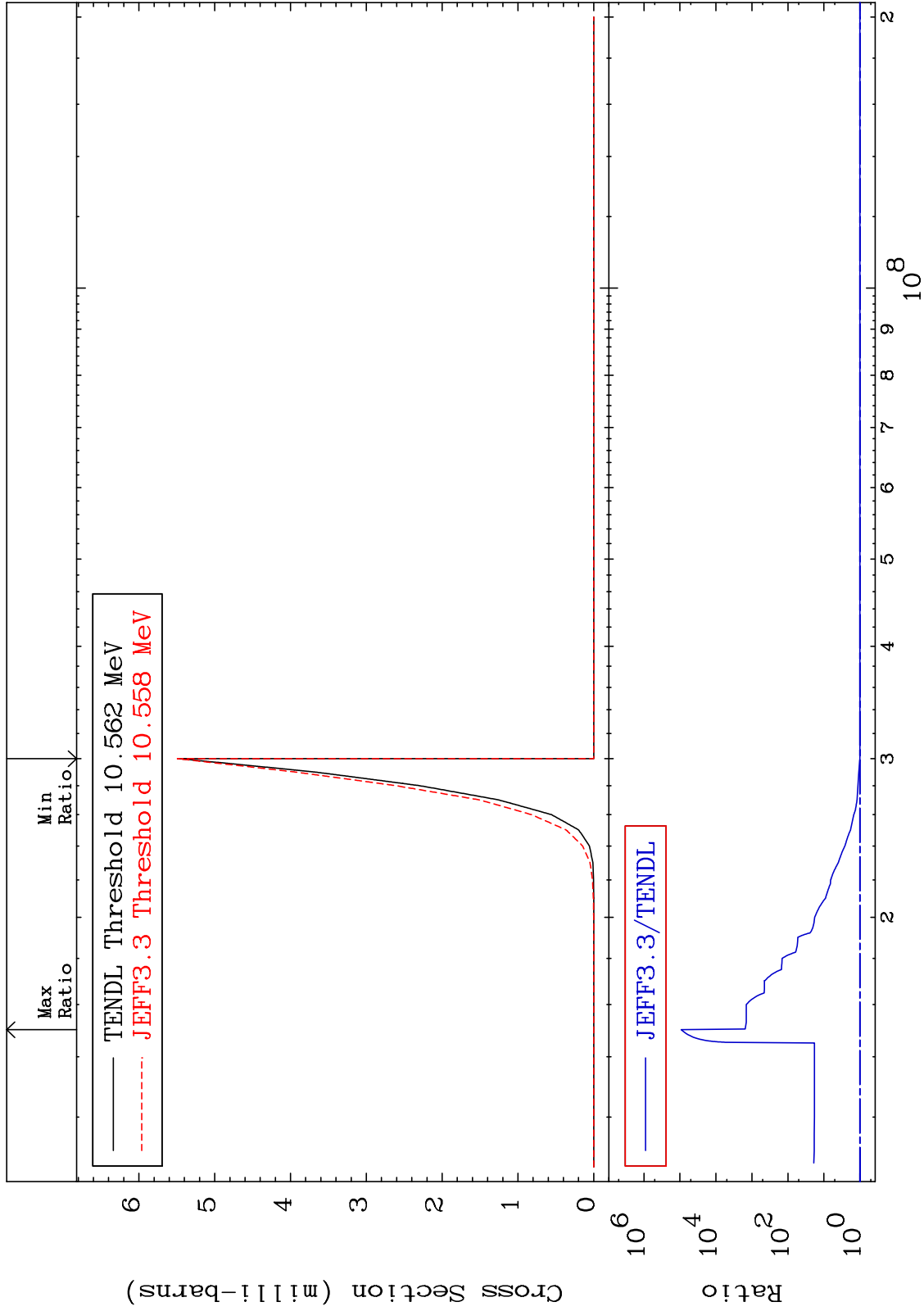
(n,2n) α

57-La-137

Cross Section

0.000

To 9999. %



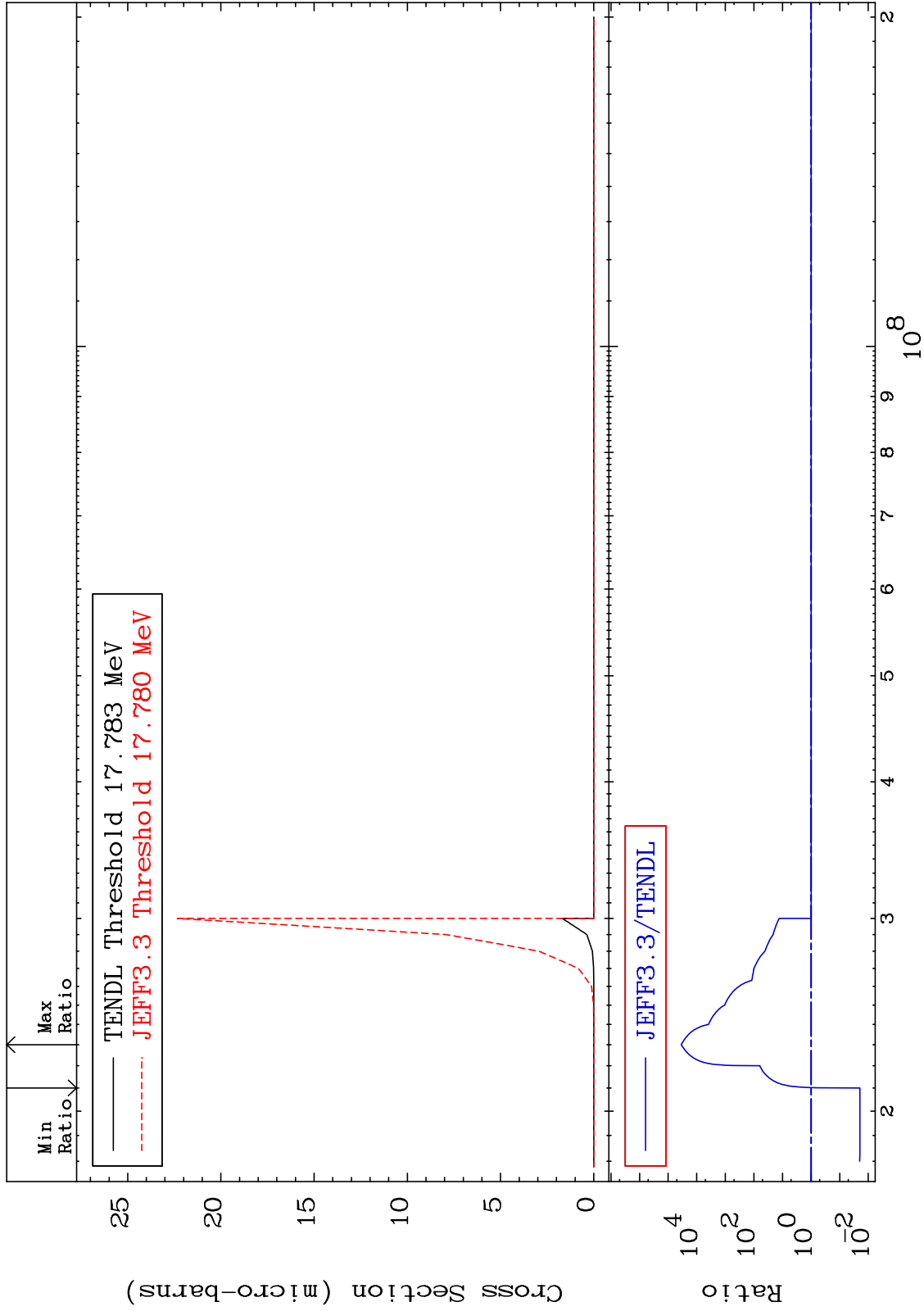
MAT 5722

(n,3n) α

57-La-137

Cross Section

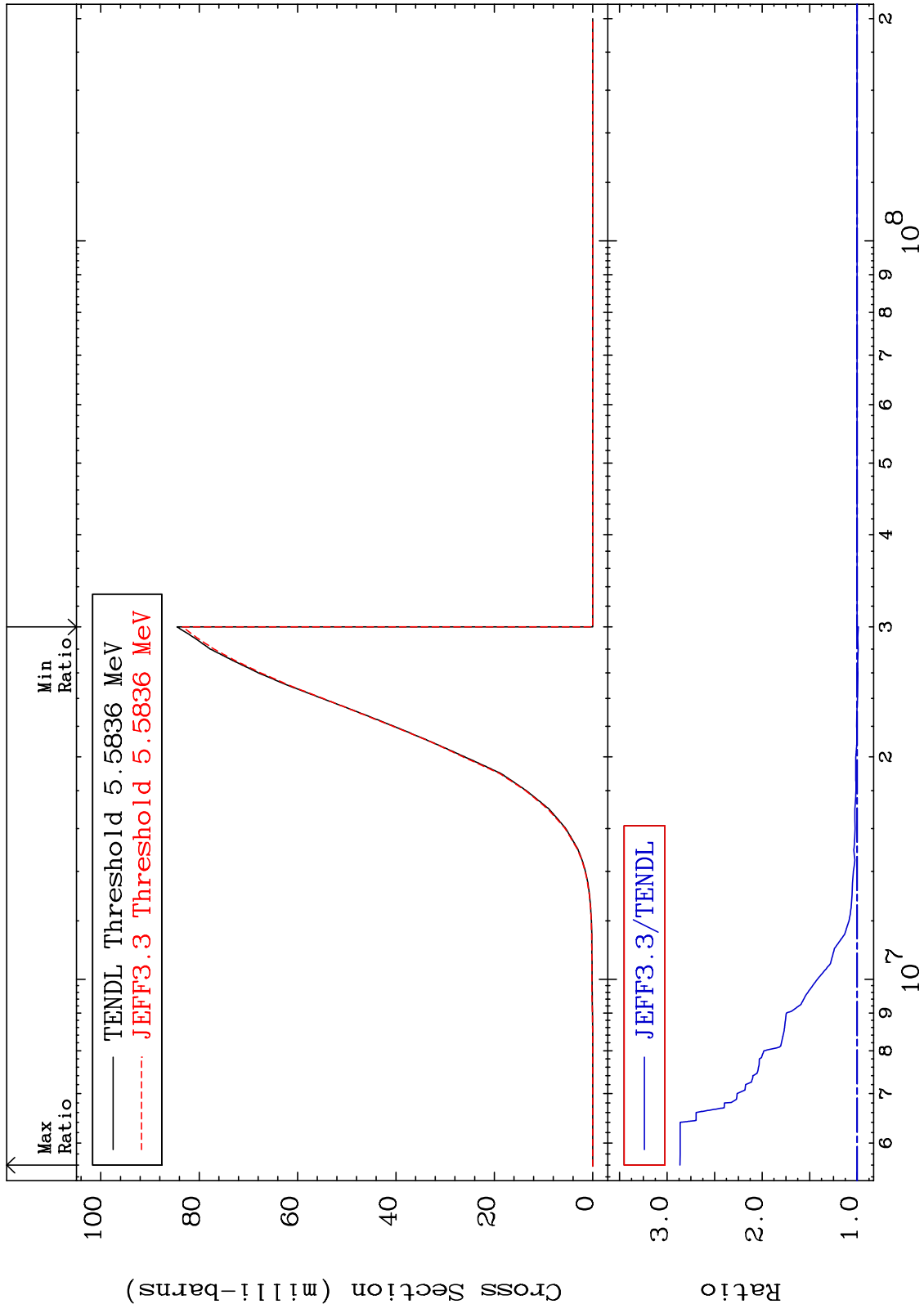
-98.04 To 9999. %



MAT 5722

(n,n') p
Cross Section

57-La-137
-1.319 To 186.4 %



57-La-137

Incident Energy (eV)

10

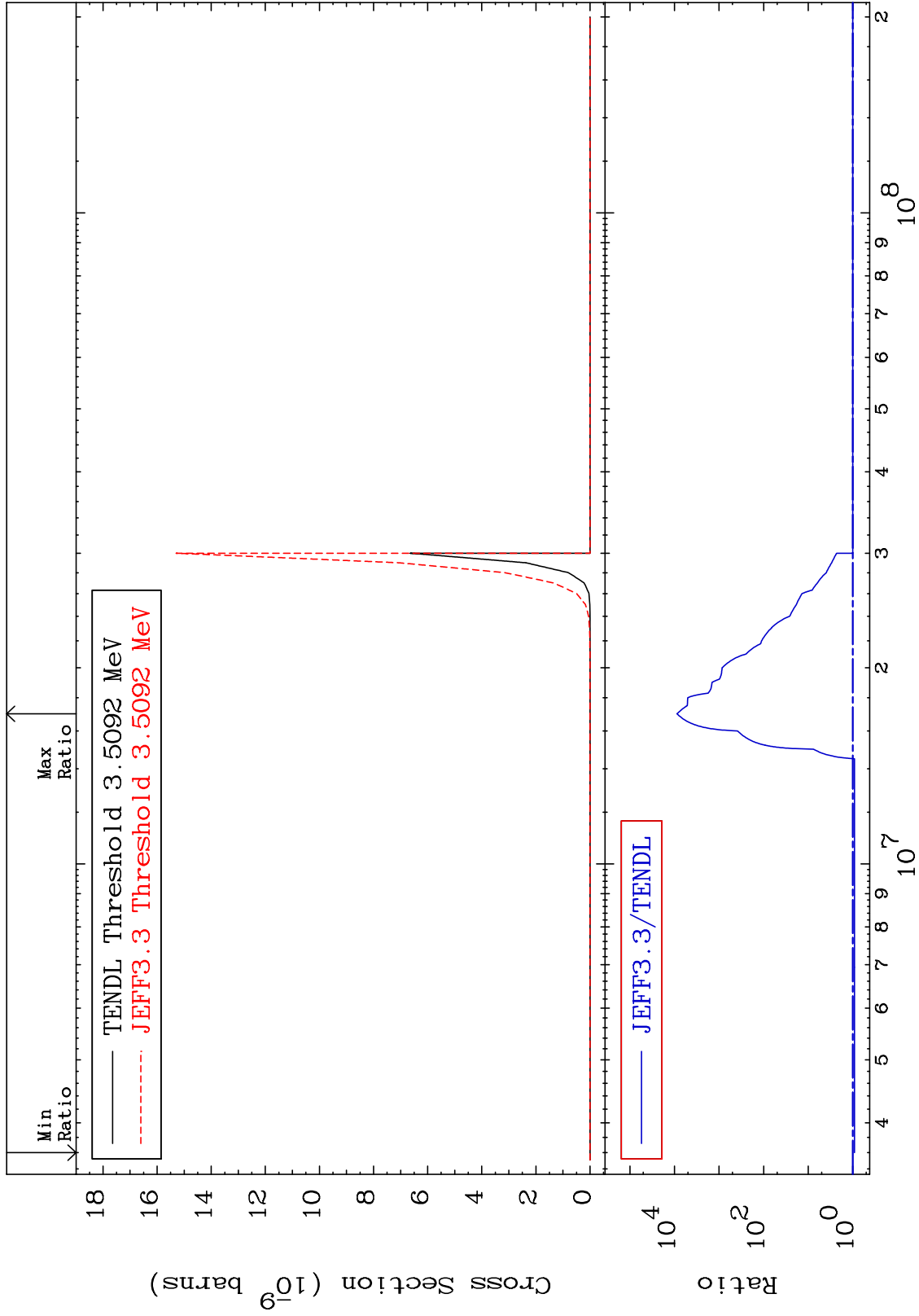
MAT 5722

(n, n') 2α

57-La-137

-8.357 To 9999. %

Cross Section



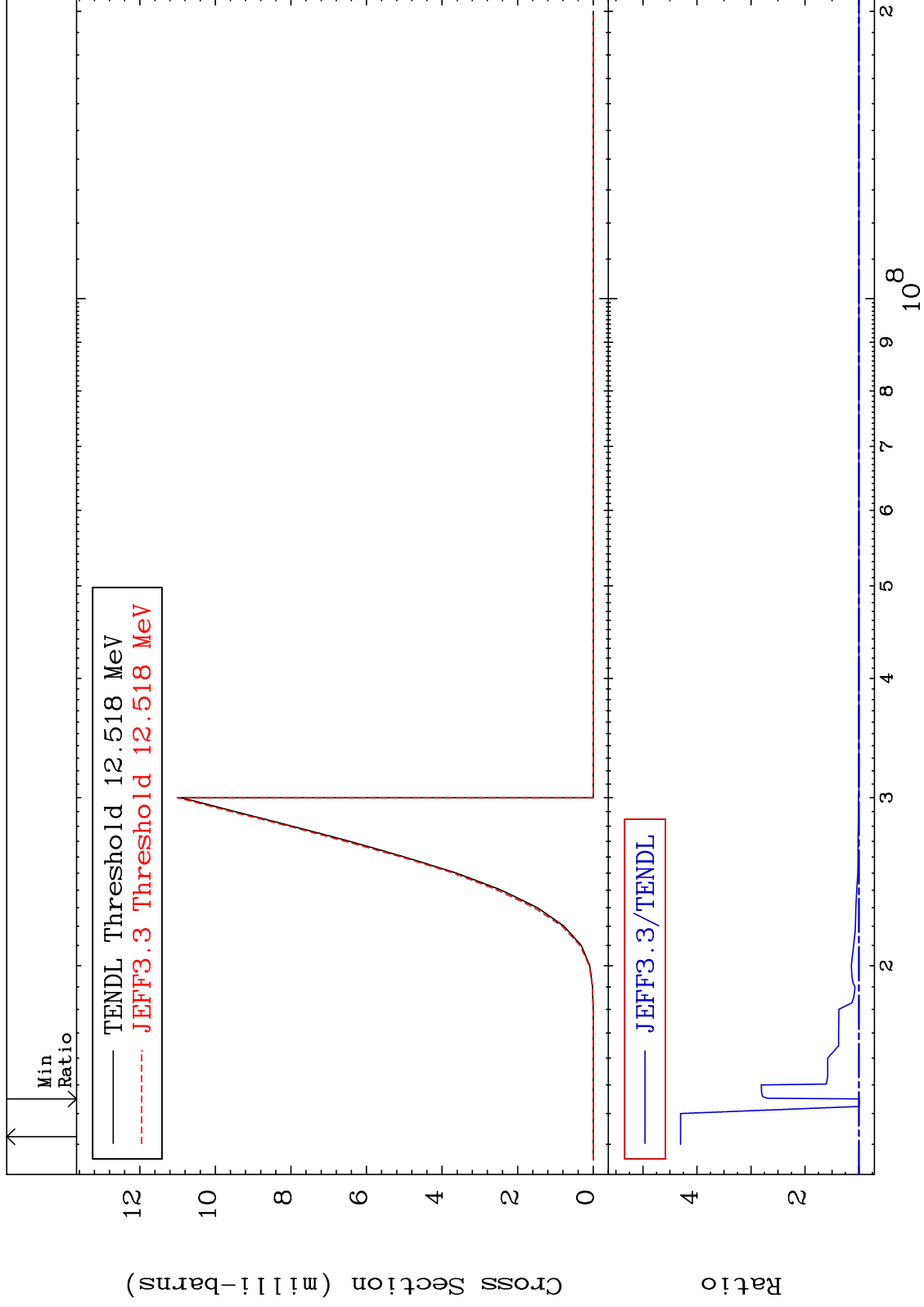
MAT 5722

(n, n') d

57-La-137

Cross Section

-0.398 To 330.3 %



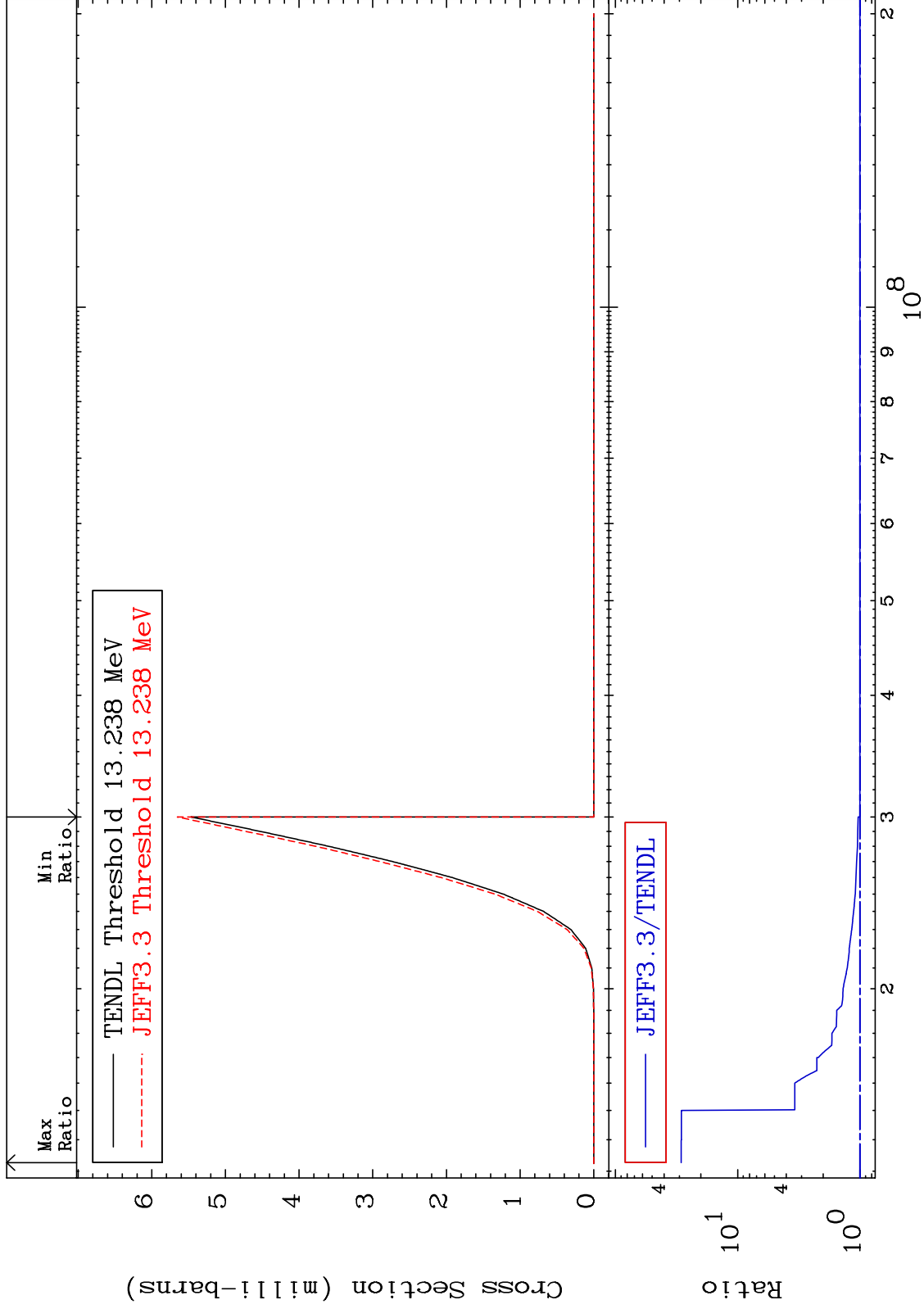
MAT 5722

(n, n') t

57-La-137

Cross Section

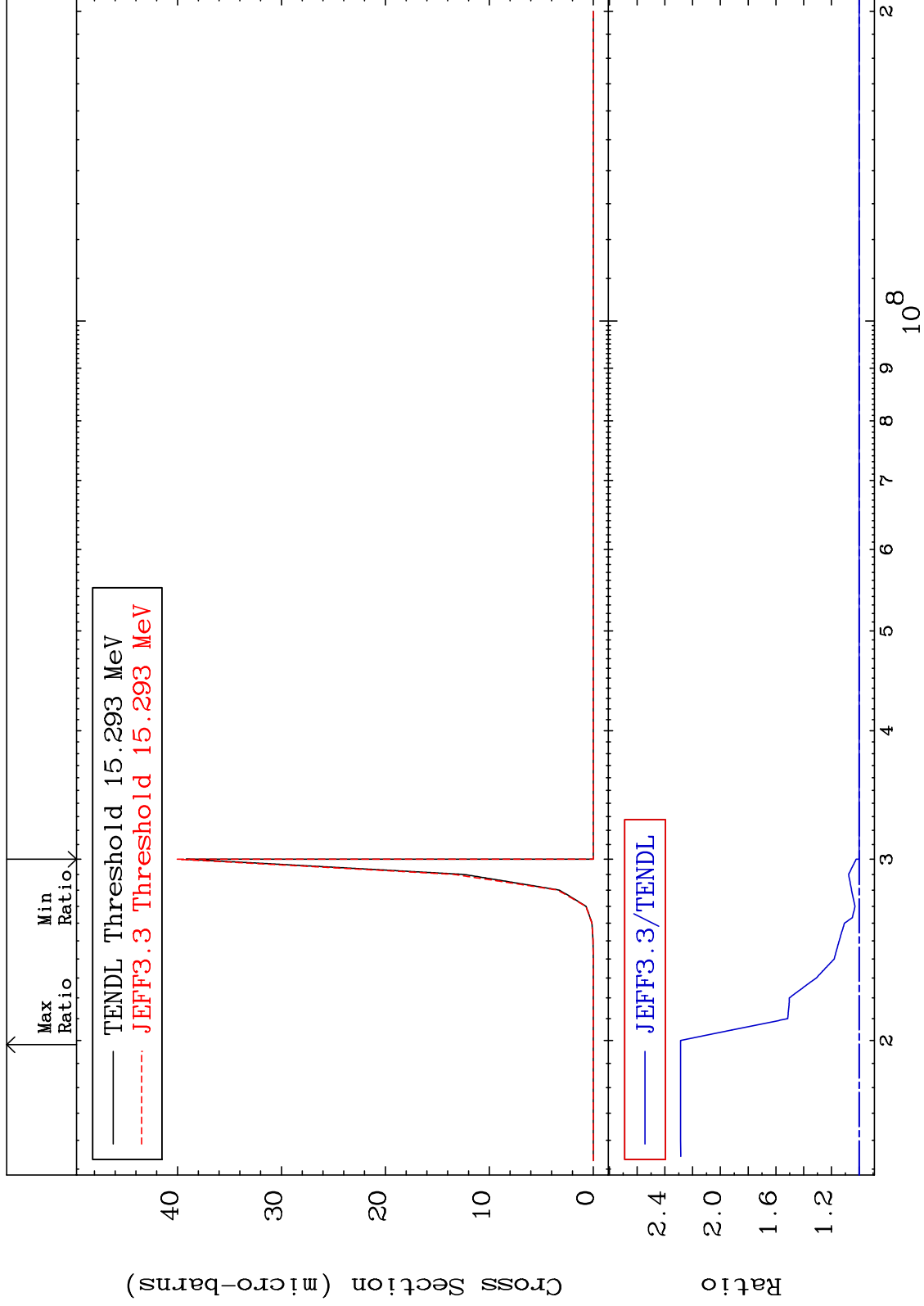
0.000 To 2794. %



MAT 5722

(n,n') He-3
Cross Section

57-La-137
0.000 To 128.6 %



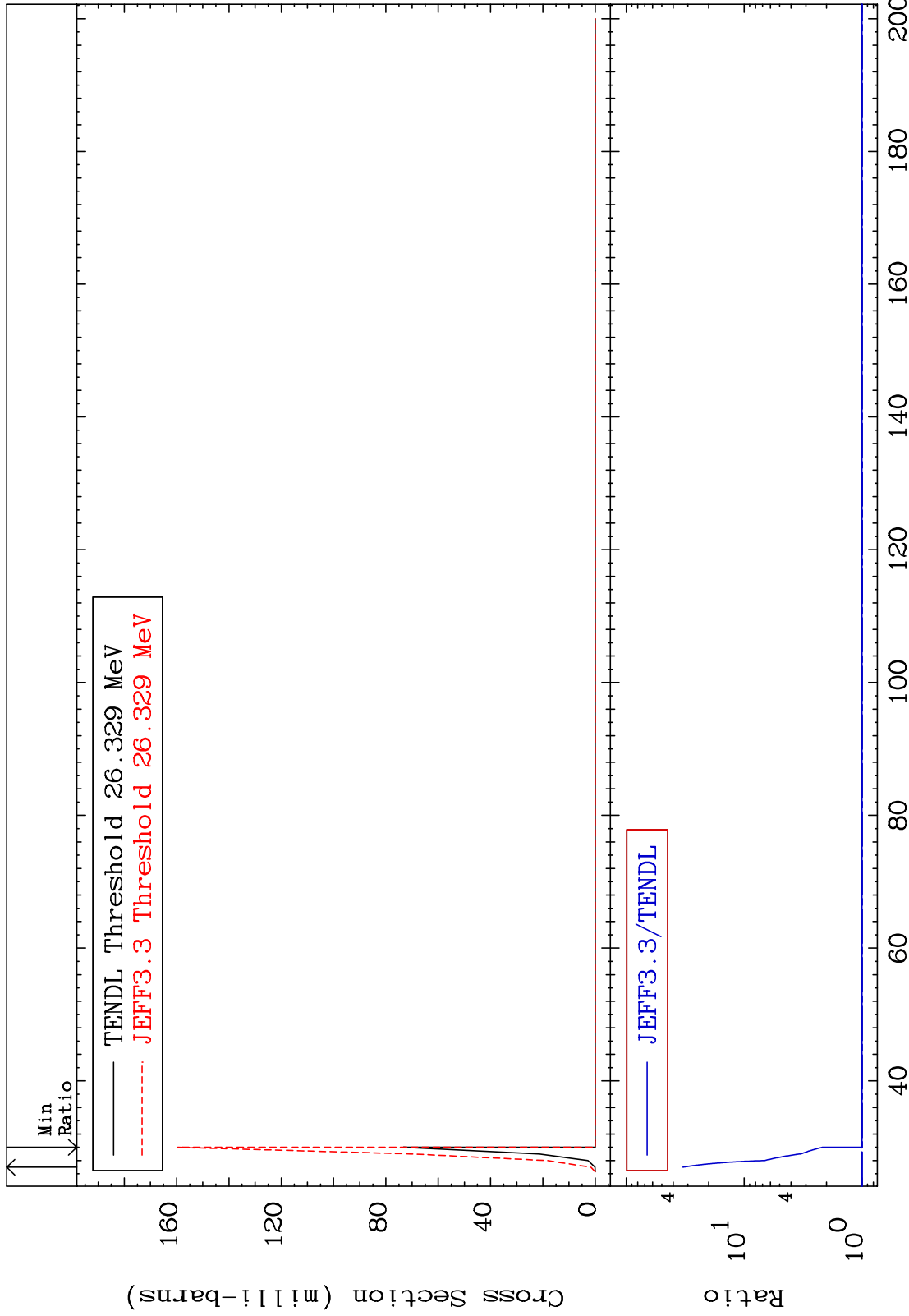
MAT 5722

(n, 4n)

57-La-137

Cross Section

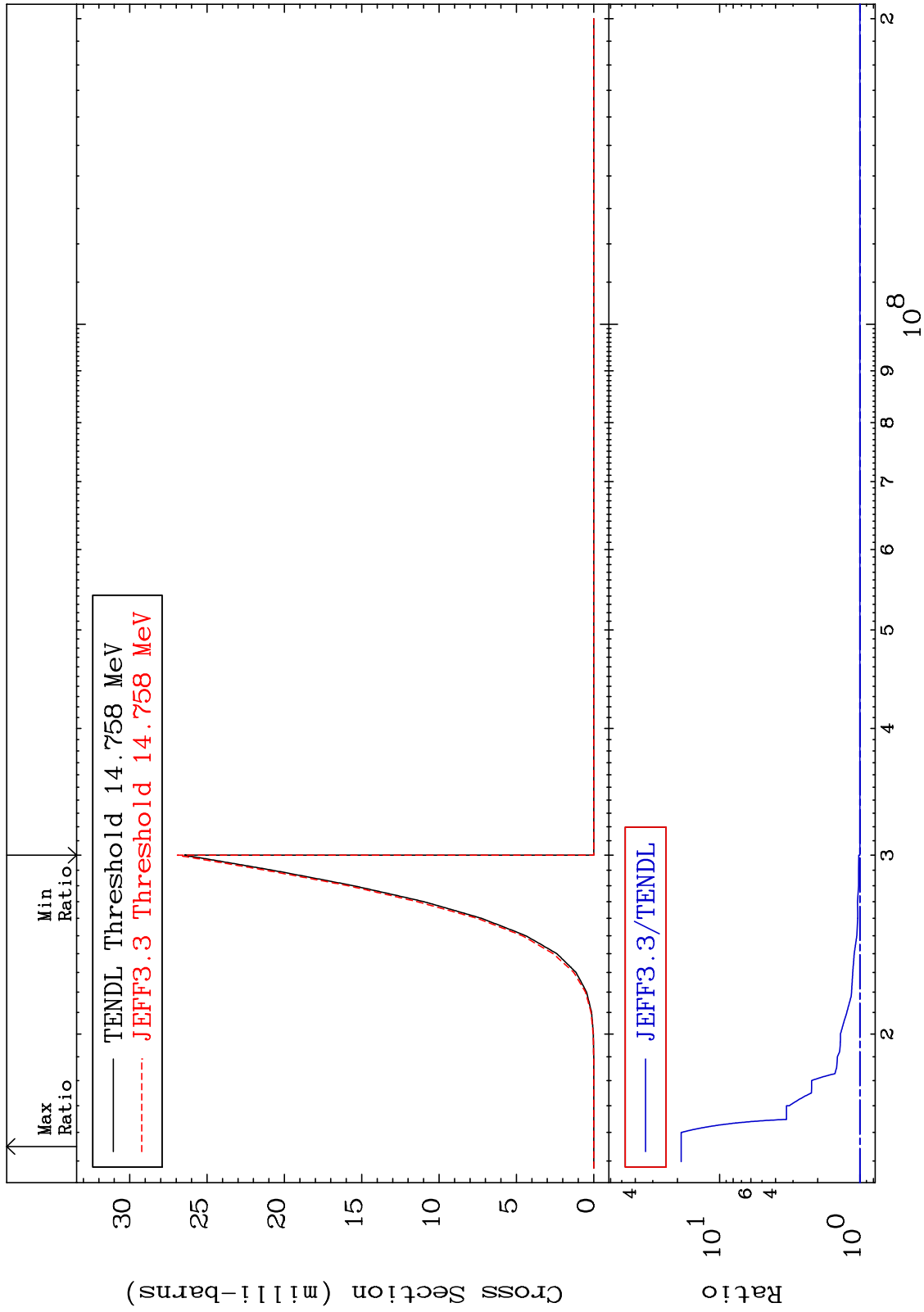
0.000 To 3213. %



MAT 5722

(n,2n) p
Cross Section

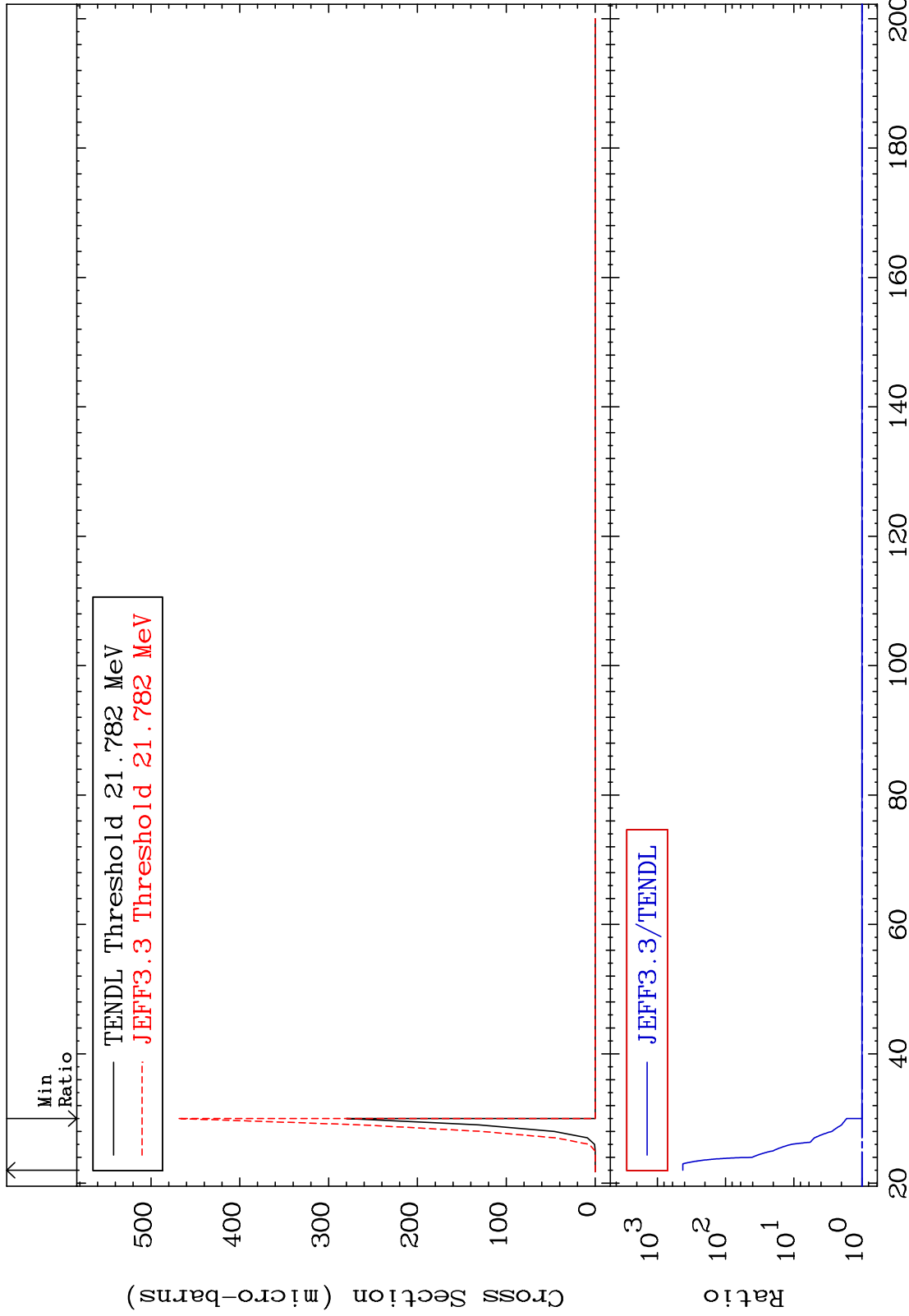
57-La-137
0.000 To 1780. %



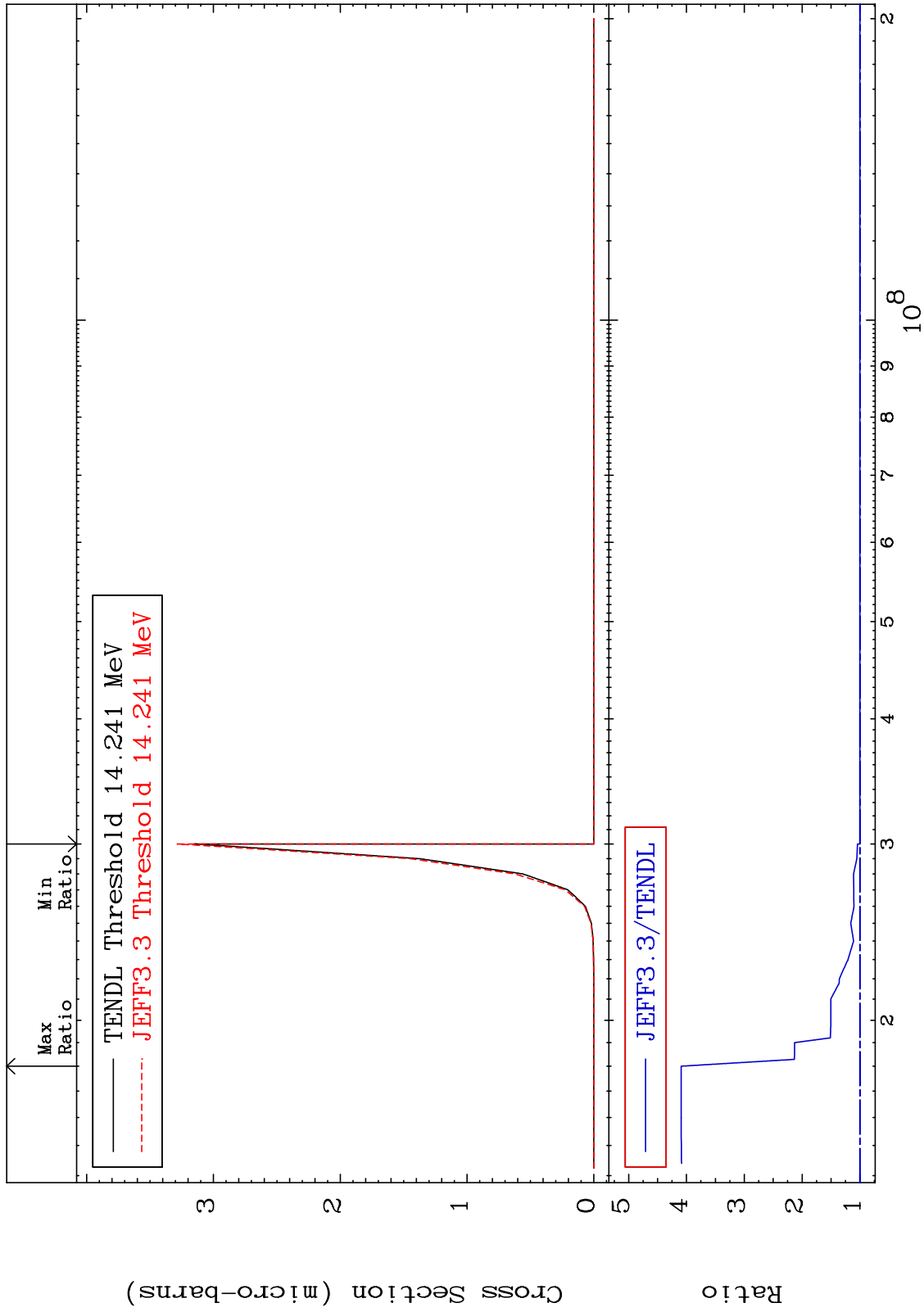
MAT 5722

(n,3n) p
Cross Section

57-La-137
0.000 To 9999. %



MAT 5722 (n,2n) p 57-La-137
 Cross Section 0.000 To 309.1 %



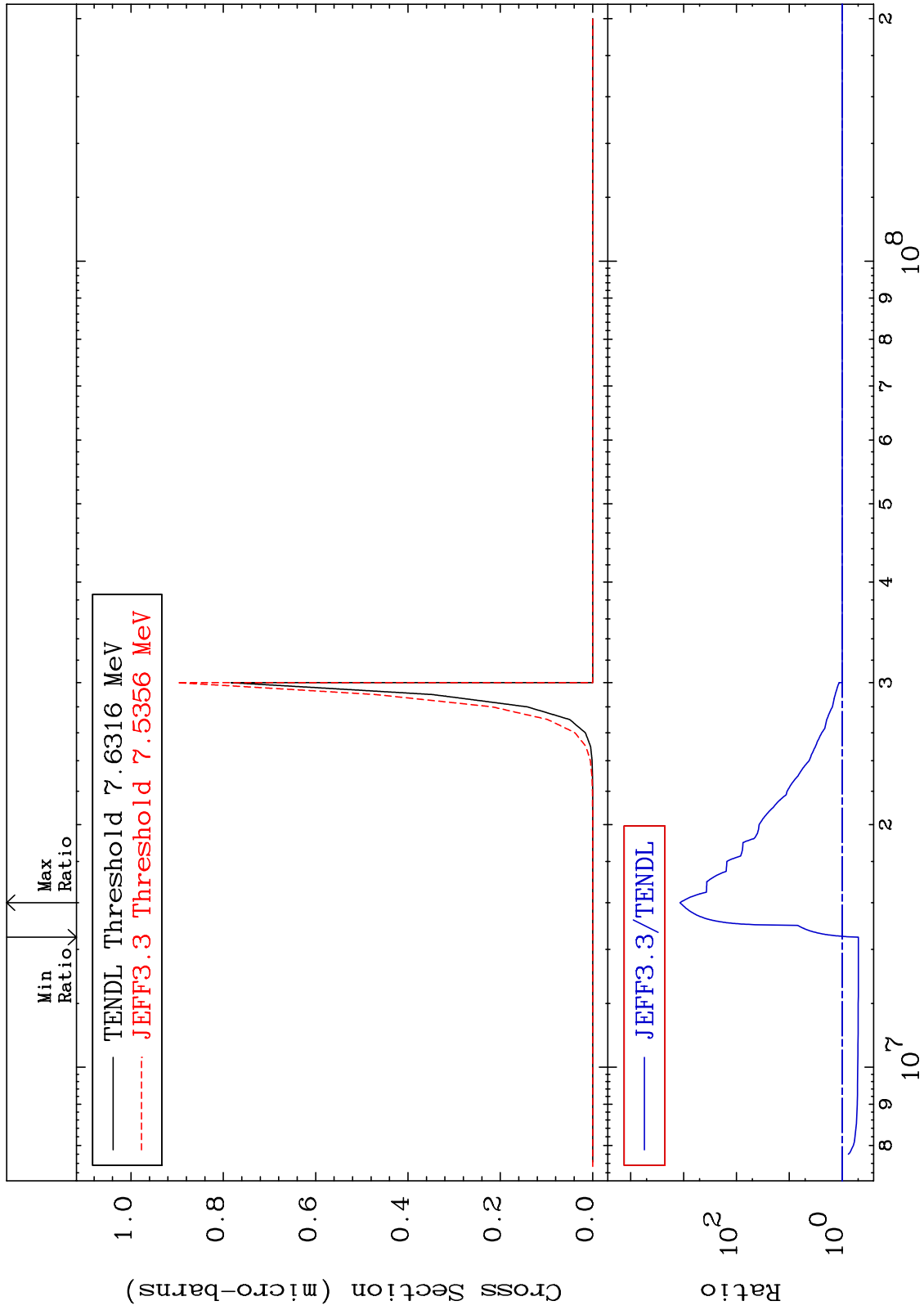
57-La-137

Incident Energy (eV)

MAT 5722

(n,n') p α
Cross Section

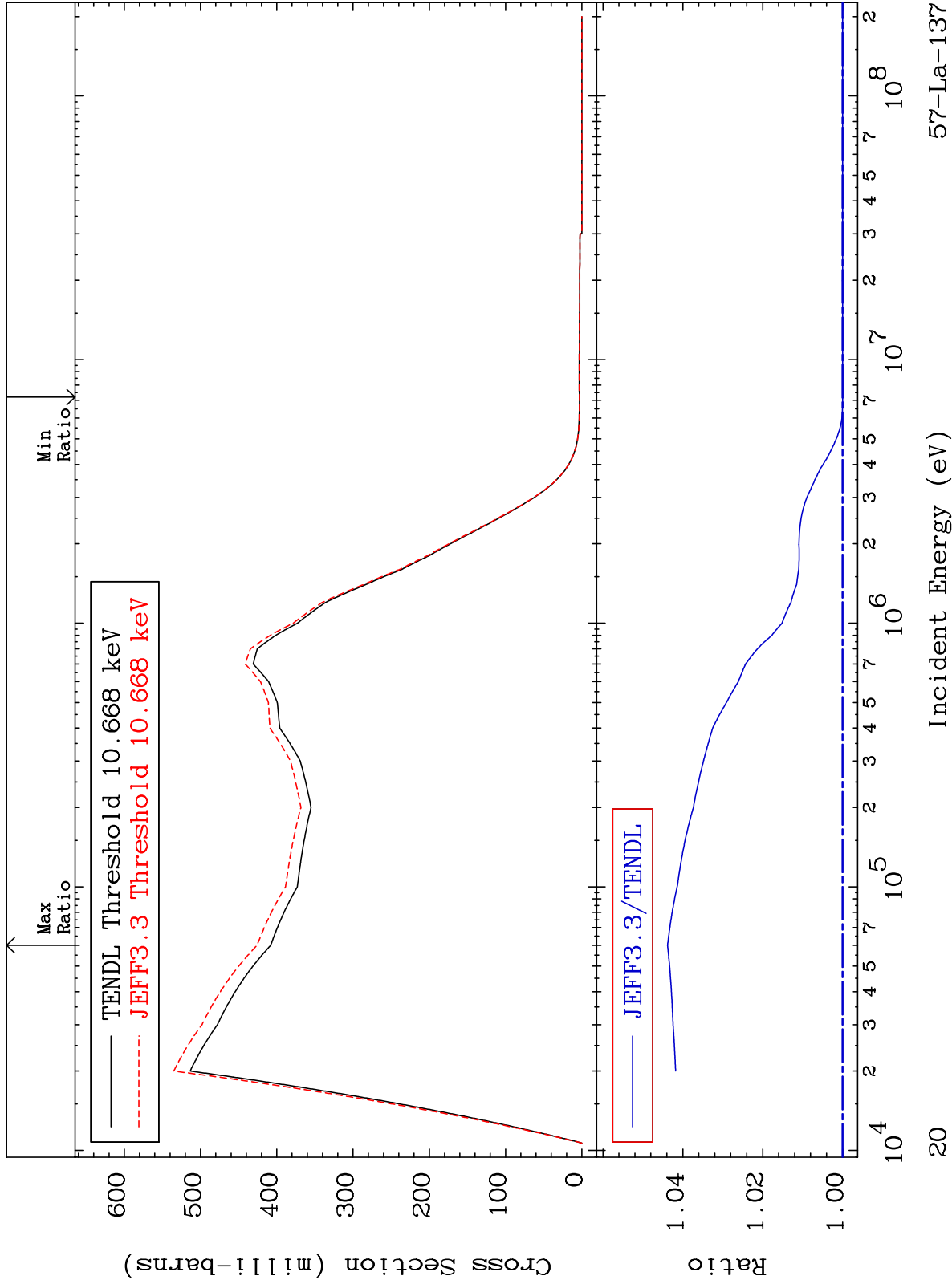
57-La-137
-50.68 To 9999. %



MAT 5722

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

57-La-137
-0.004 To 4.382 %



57-La-137

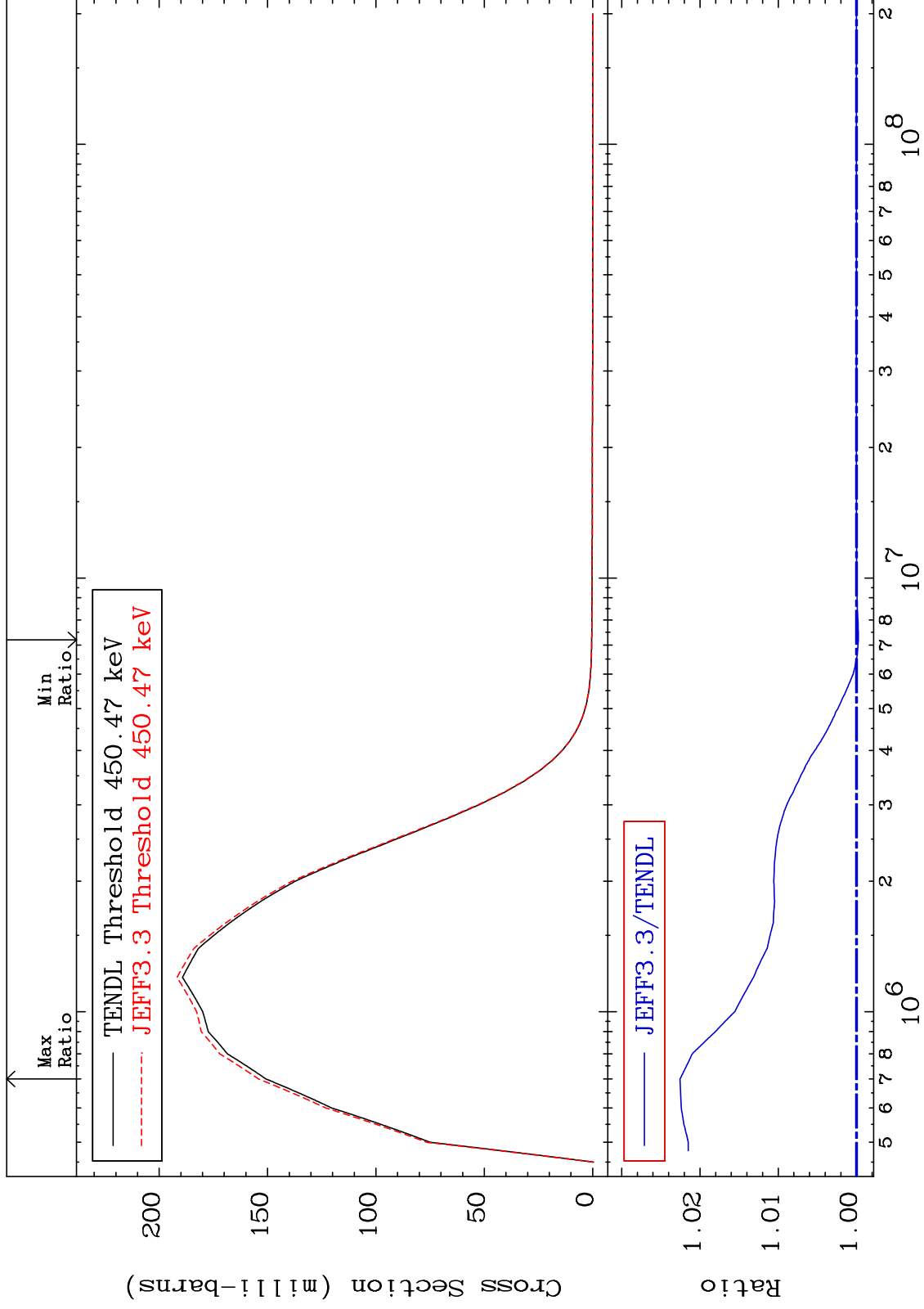
Incident Energy (eV)

20

MAT 5722

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

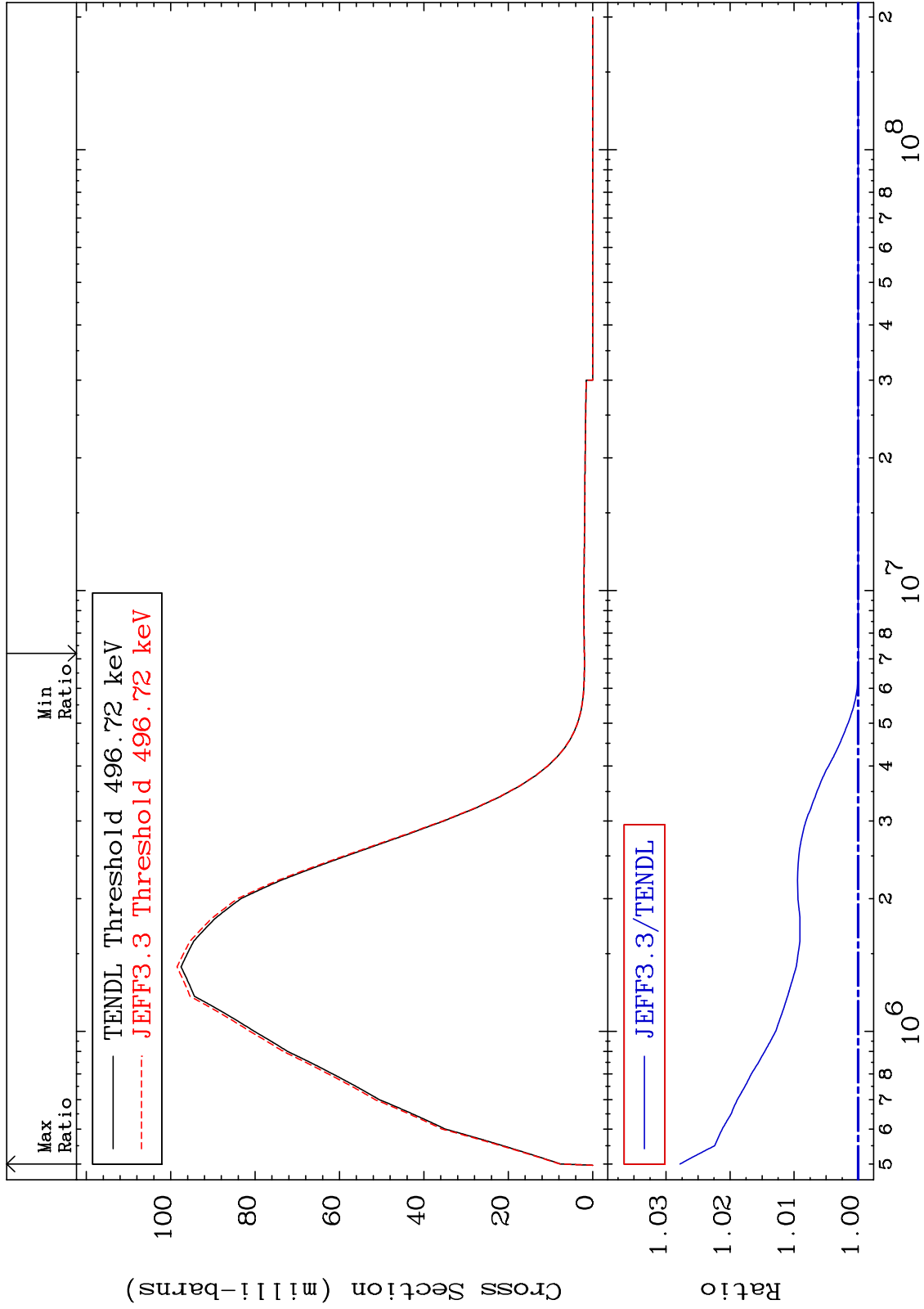
57-La-137
-0.025 To 2.255 %



MAT 5722

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

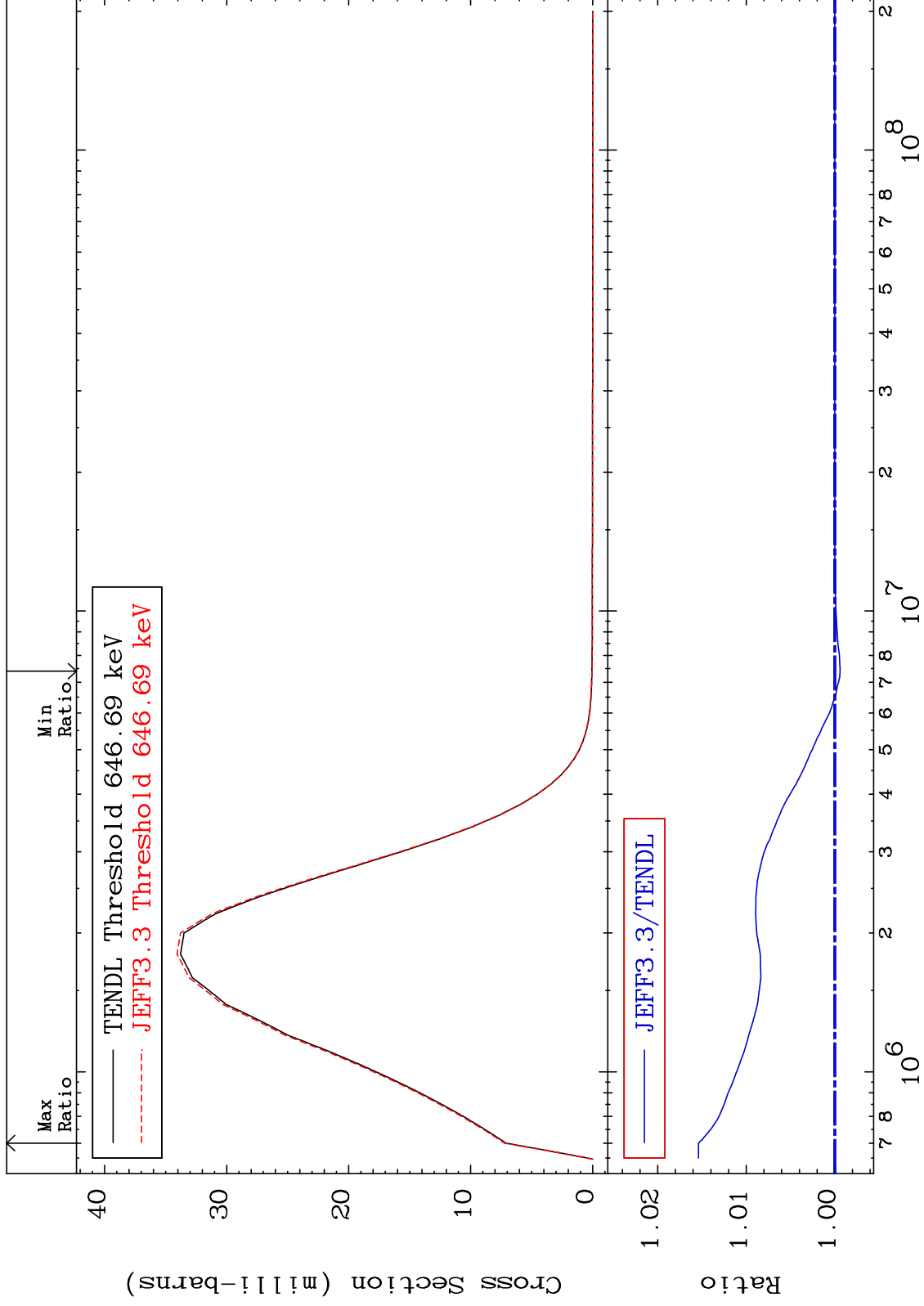
57-La-137
-0.004 To 2.781 %



MAT 5722

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

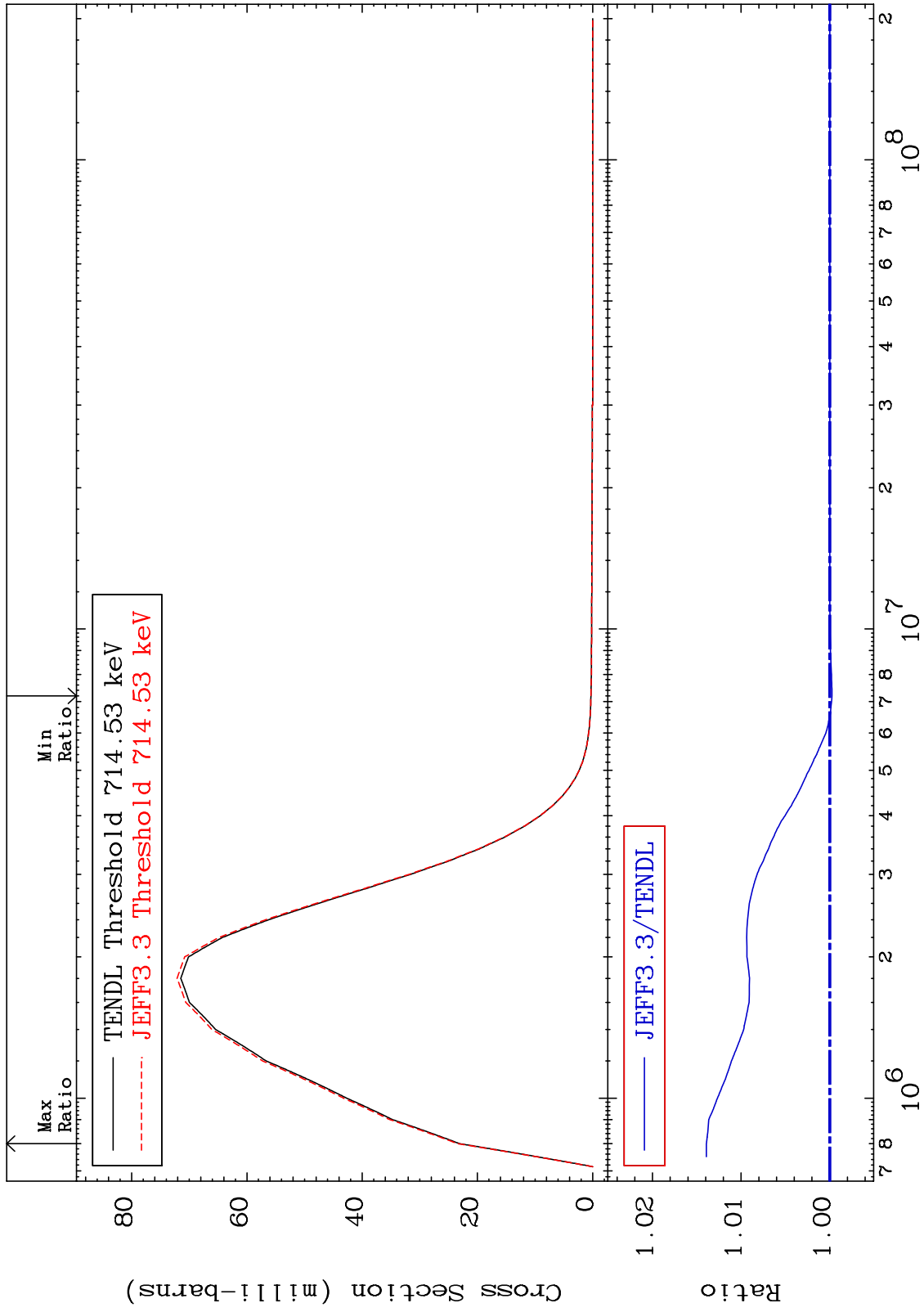
57-La-137
-0.059 To 1.540 %



MAT 5722

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

57-La-137
-0.026 To 1.391 %



24

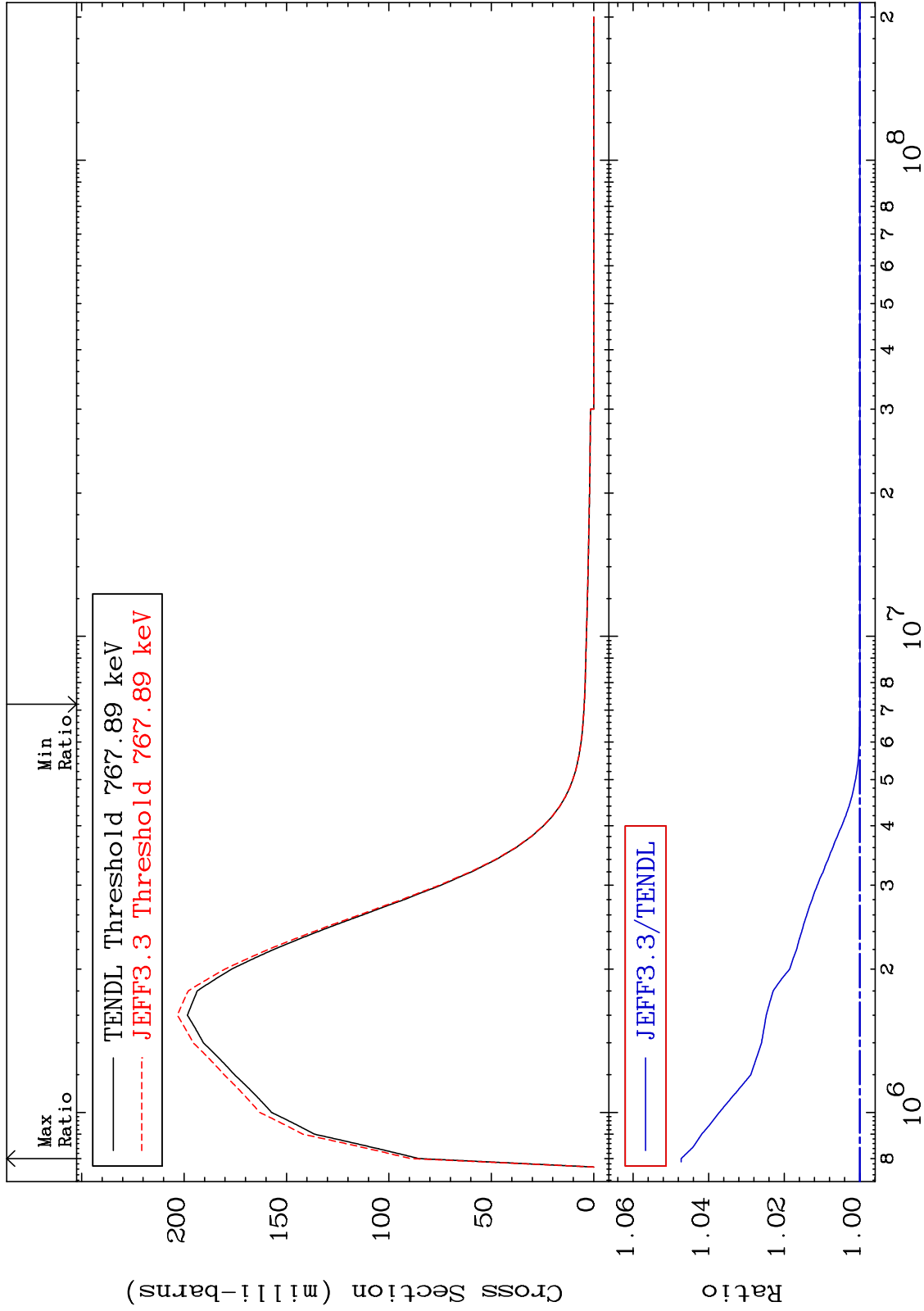
Incident Energy (eV)

57-La-137

MAT 5722

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

57-La-137
-0.003 To 4.724 %



25

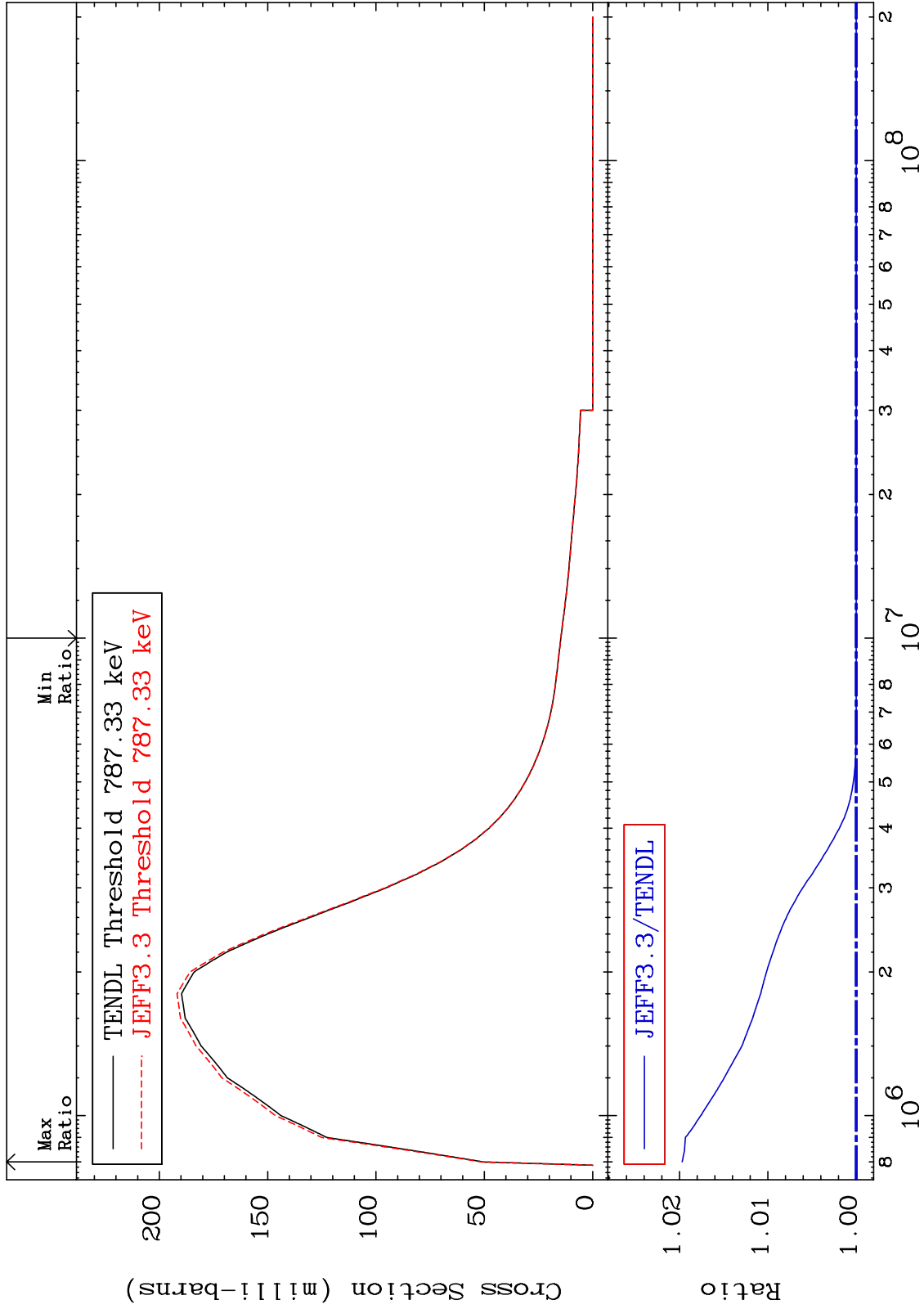
Incident Energy (eV)

57-La-137

MAT 5722

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

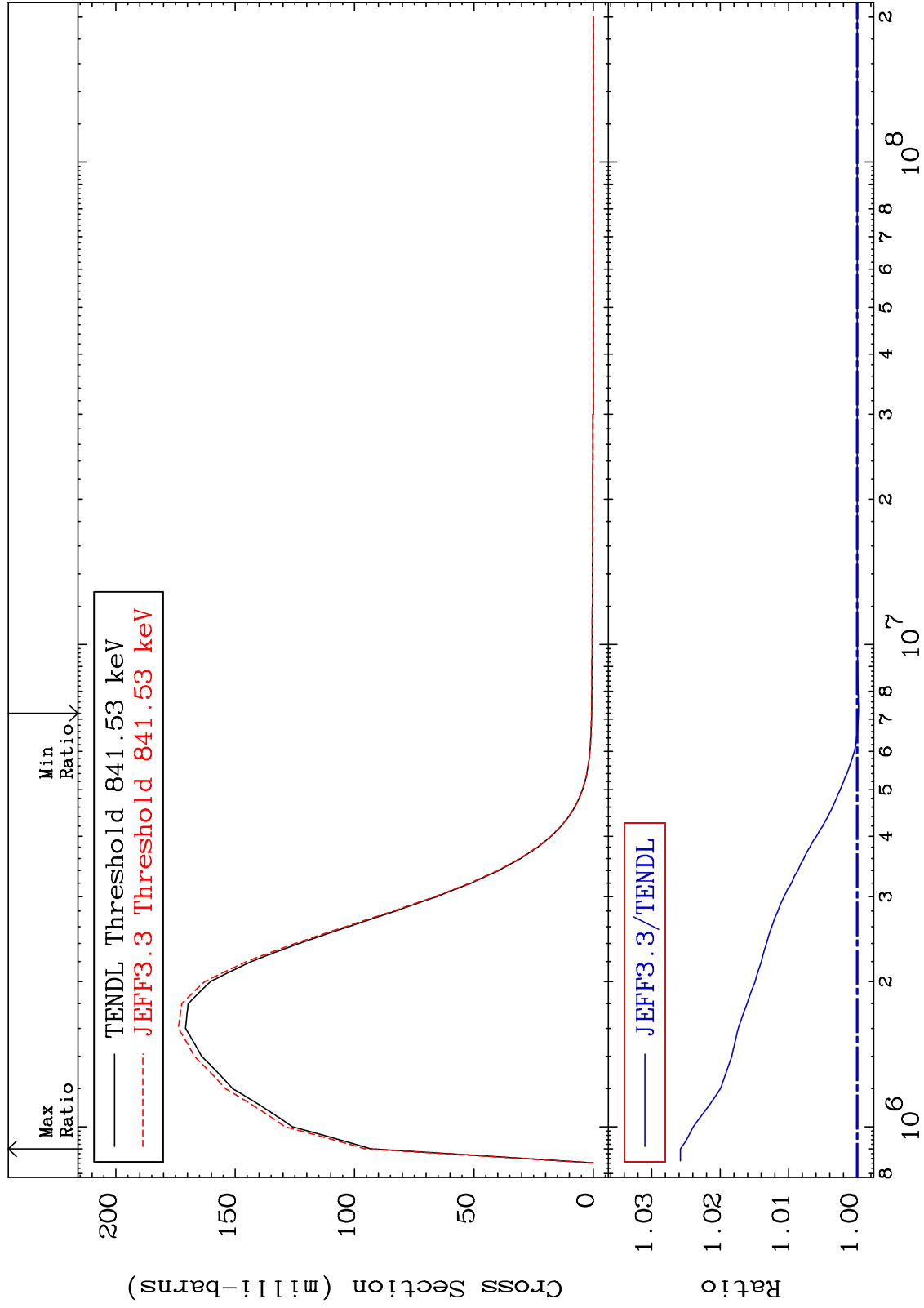
57-La-137
To 1.971 %
0.000



MAT 5722

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

57-La-137
-0.020 To 2.580 %

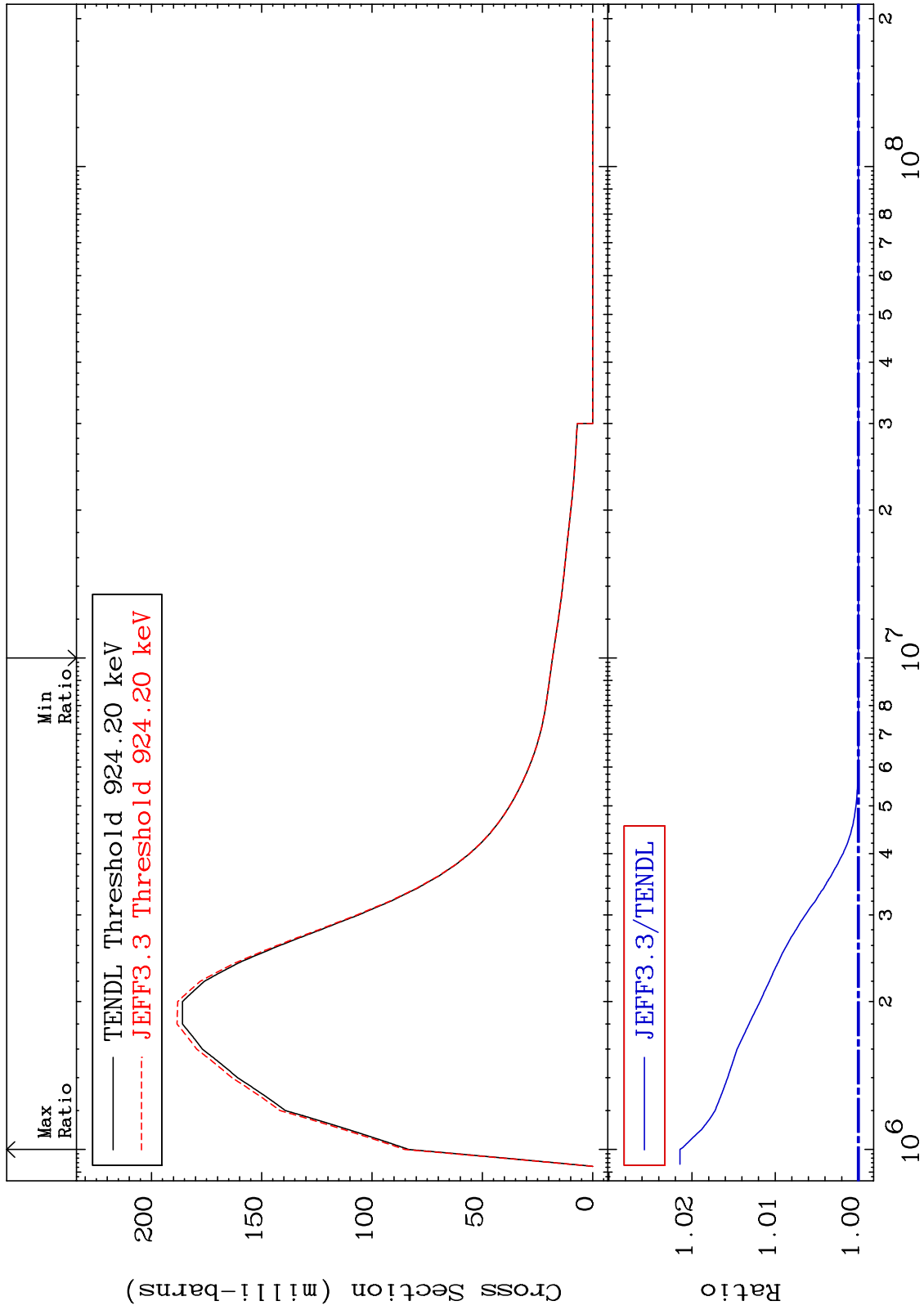


27

Incident Energy (eV)

57-La-137

MAT 5722 MT= 59 (n,n') Level Cross Section 57-La-137 To 2.144 %
0.000

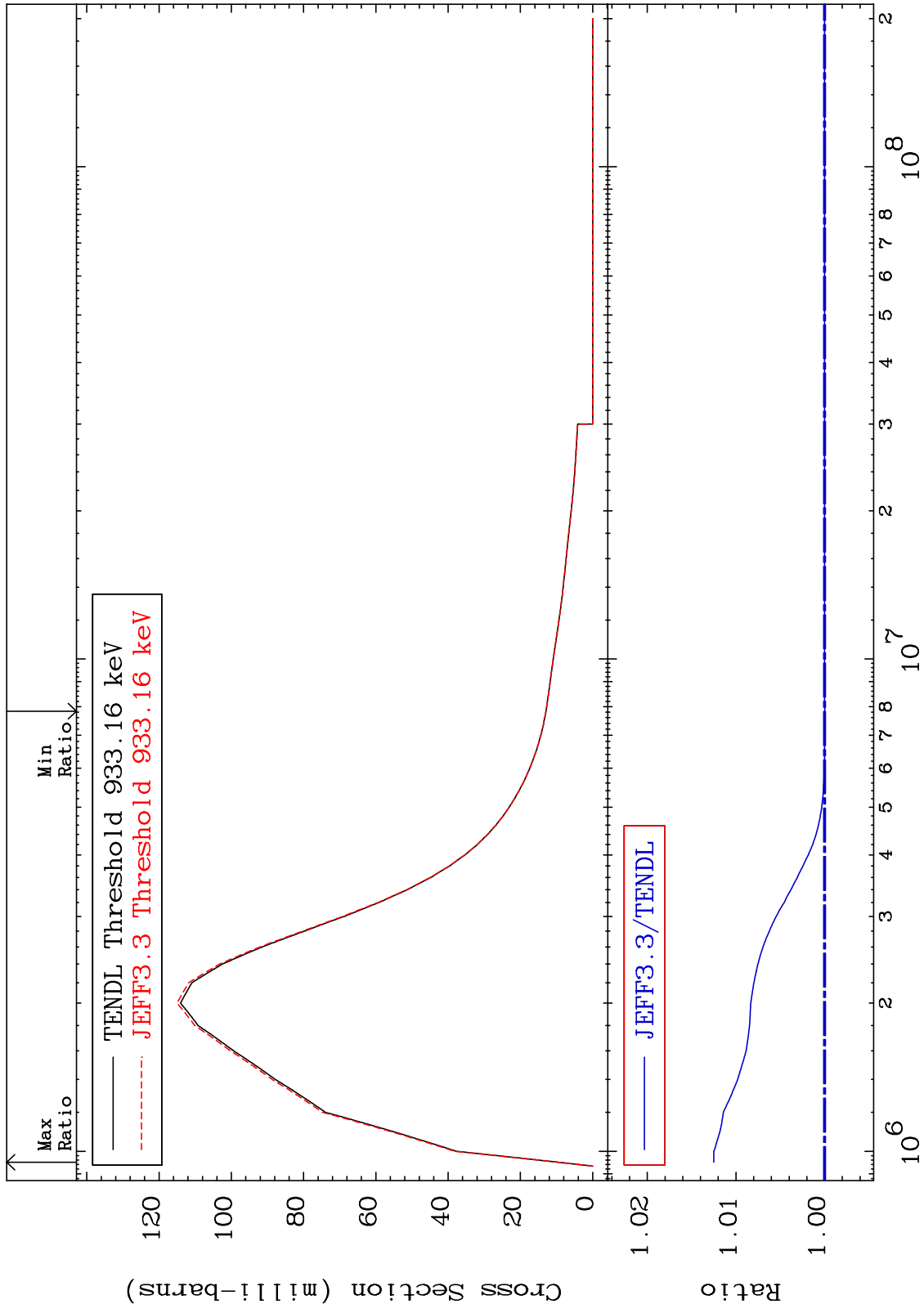


28 Incident Energy (eV) 57-La-137

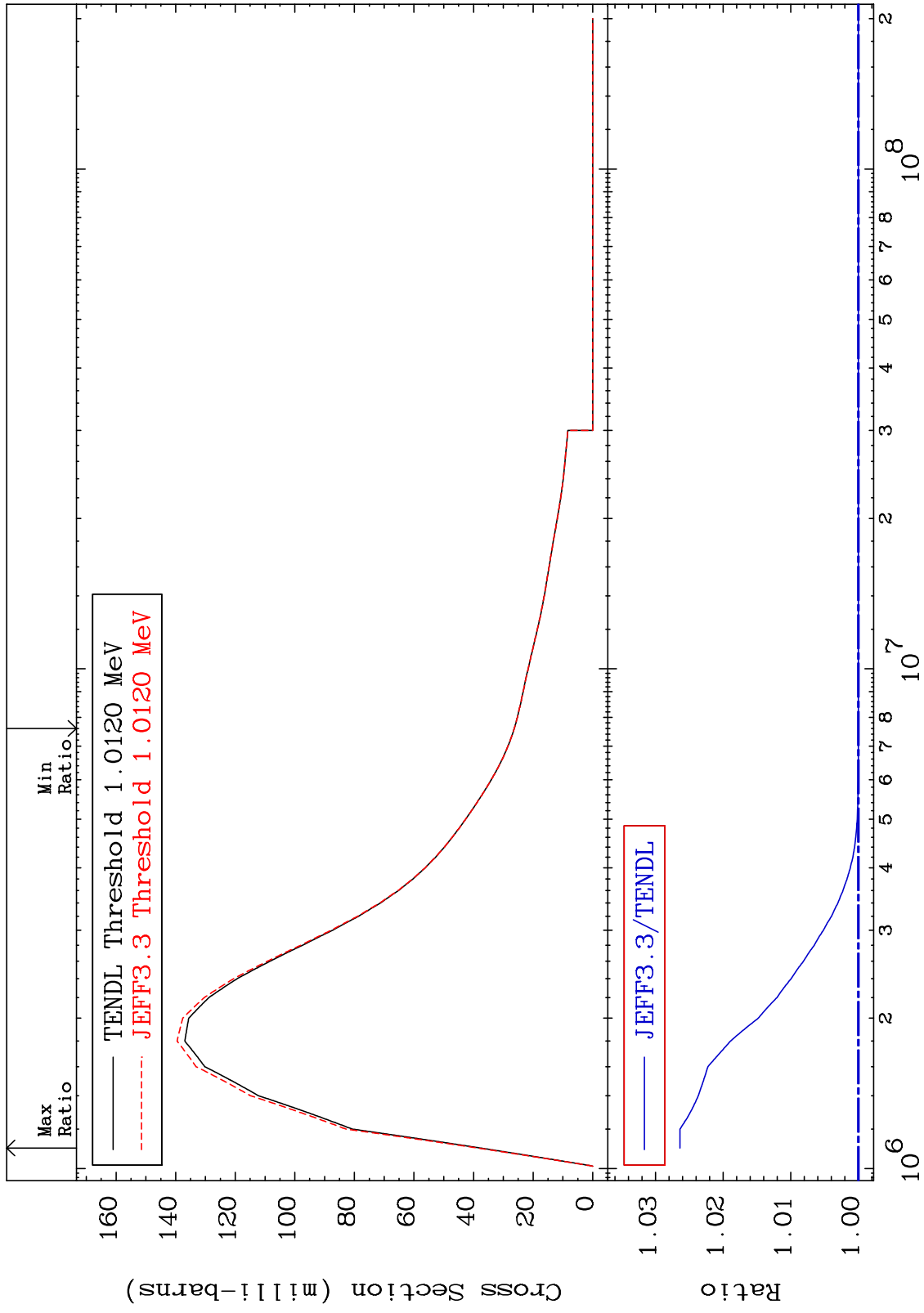
MAT 5722

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

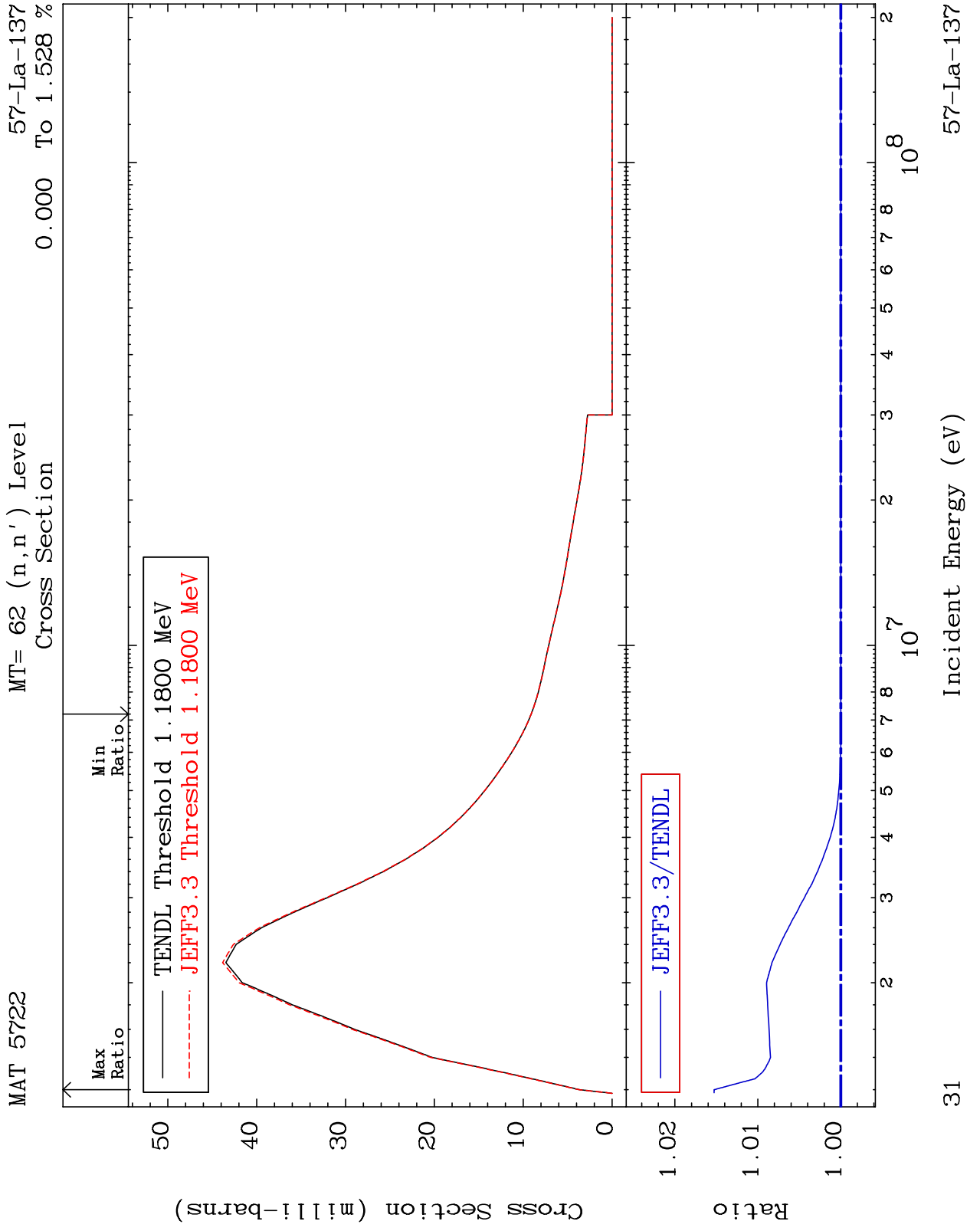
57-La-137
0.000 To 1.250 %



MAT 5722 MT= 61 (n,n') Level Cross Section 57-La-137 To 2.638 %



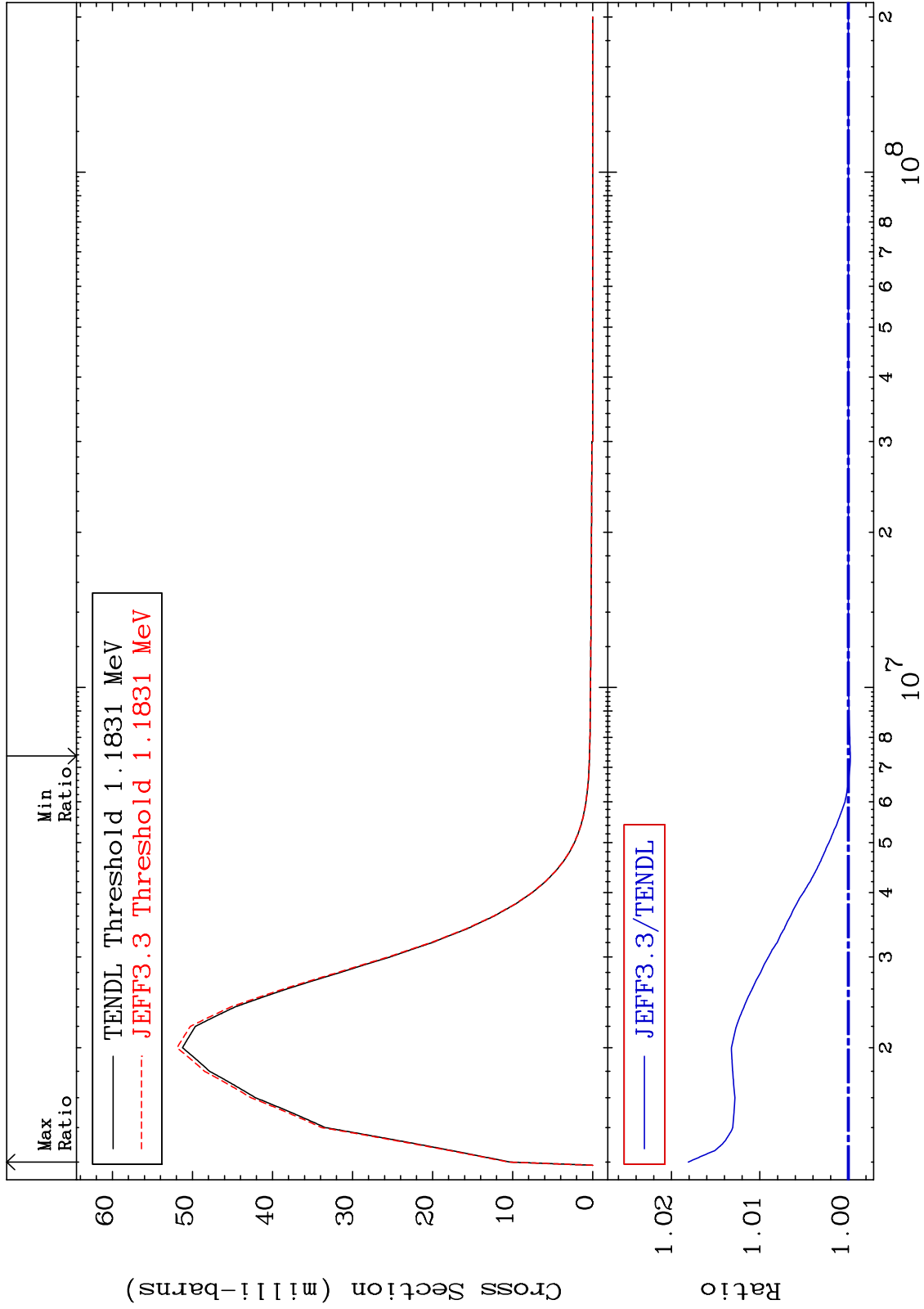
Incident Energy (eV) 57-La-137



MAT 5722

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

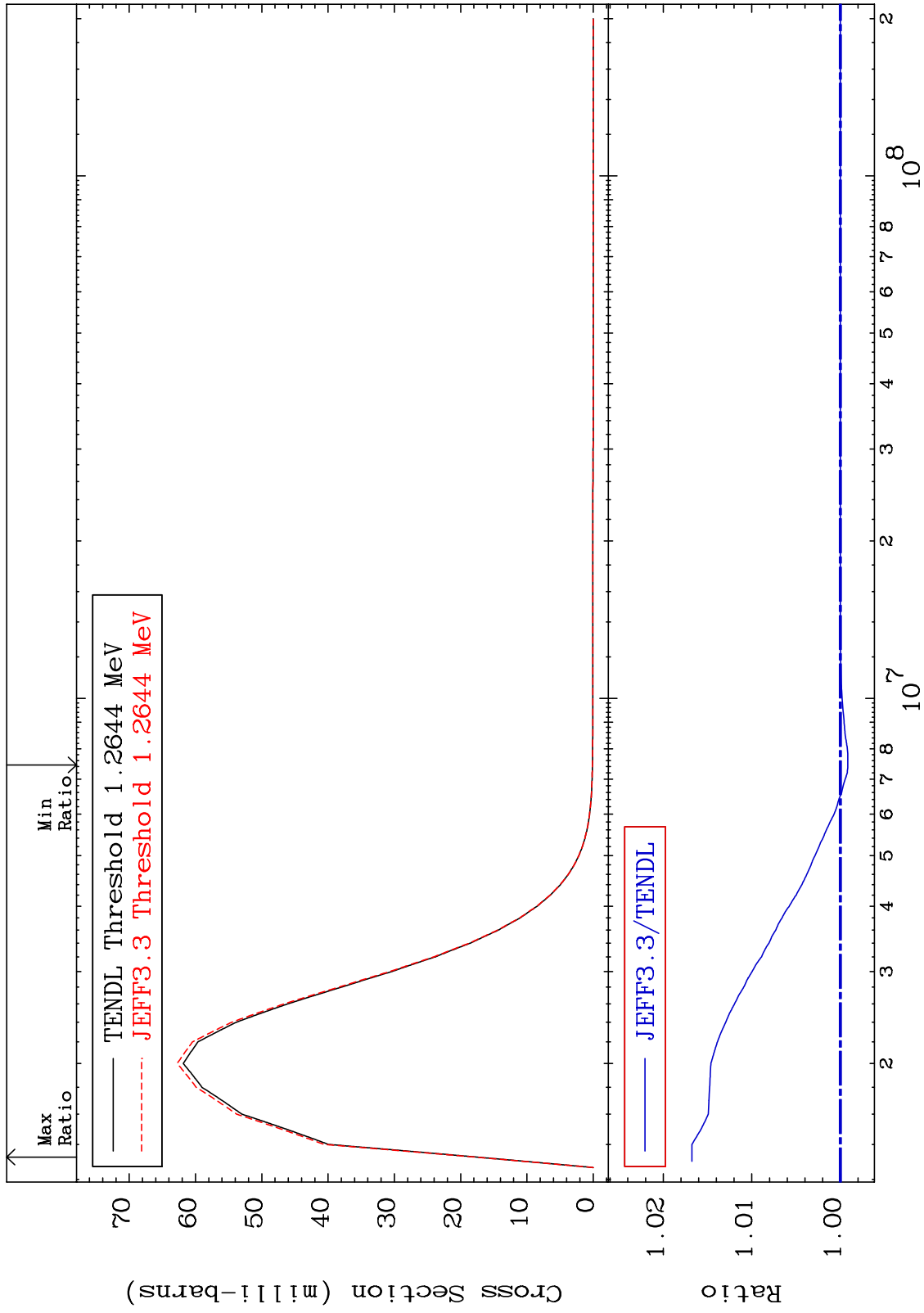
57-La-137
-0.022 To 1.811 %



MAT 5722

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

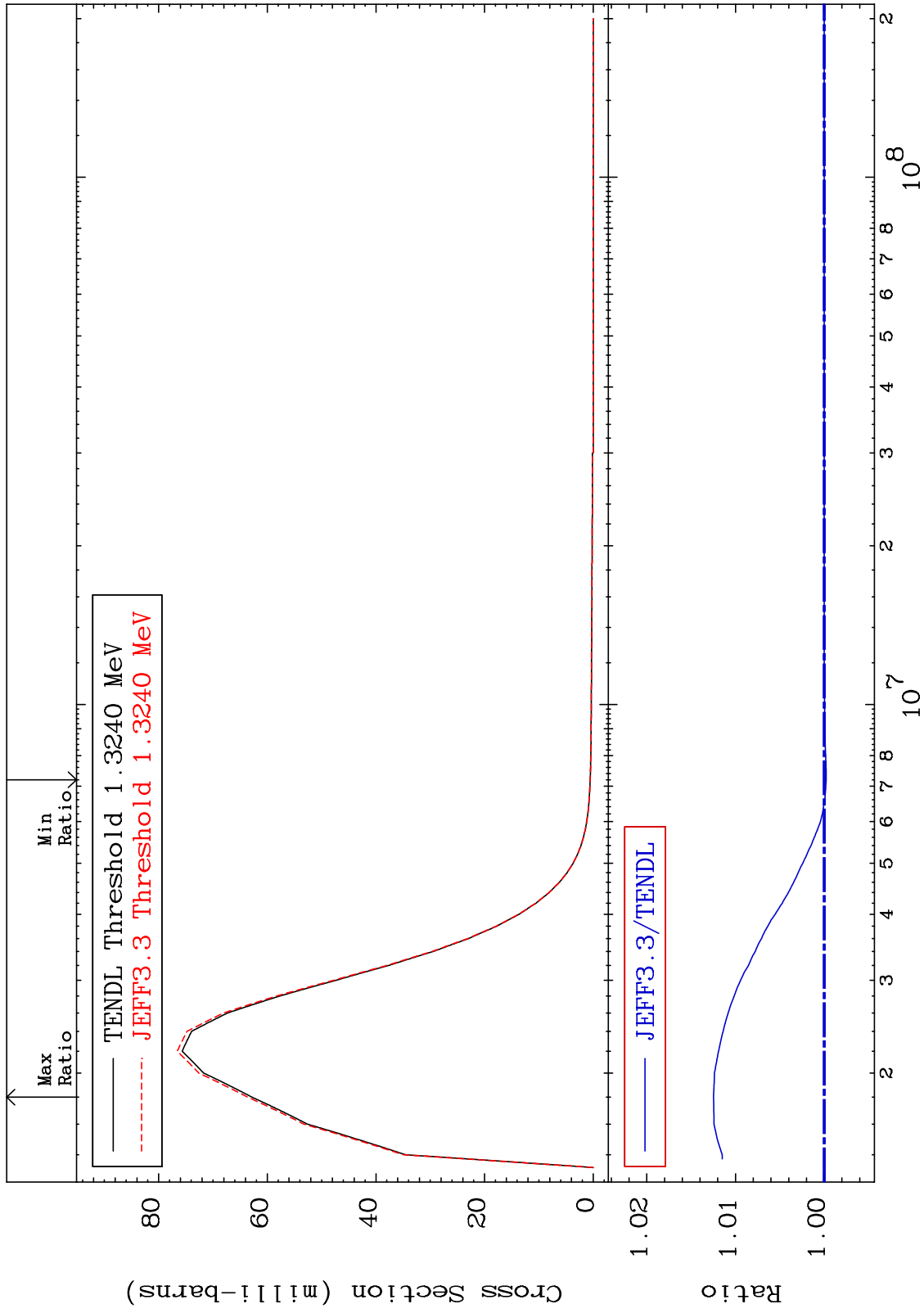
57-La-137
-0.085 To 1.676 %



MAT 5722

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

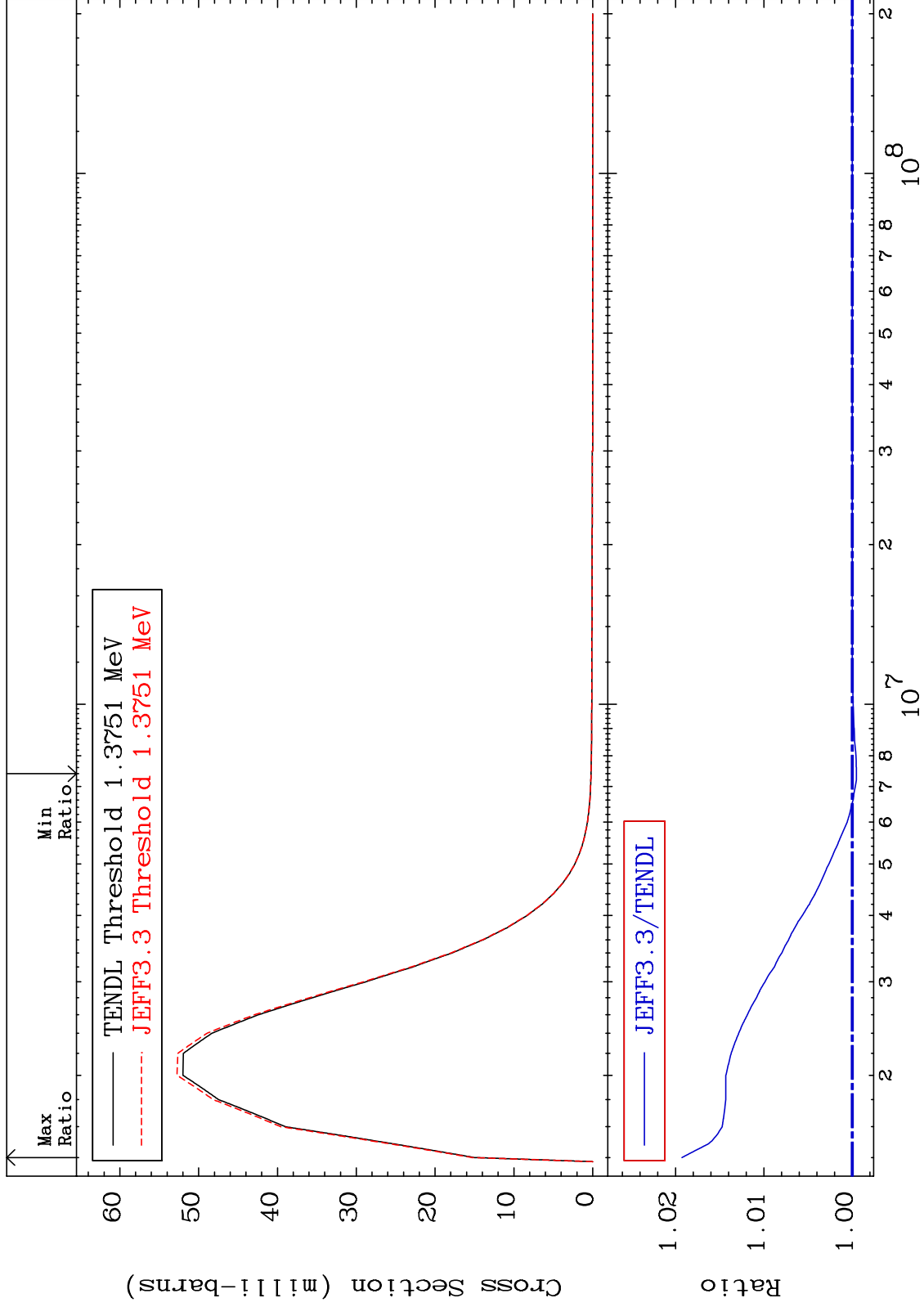
57-La-137
-0.023 To 1.247 %



MAT 5722

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

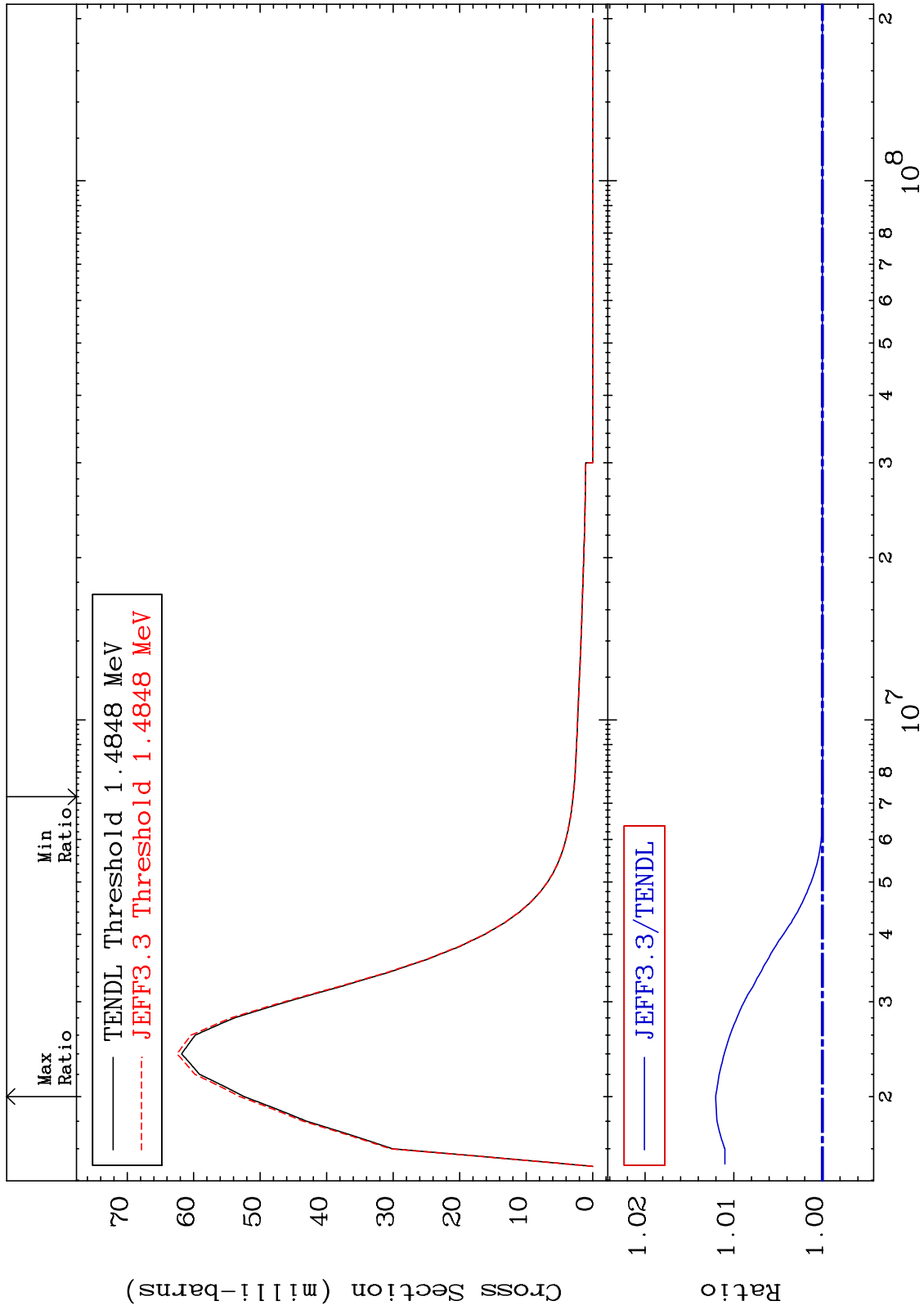
57-La-137
-0.048 To 1.927 %



MAT 5722

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

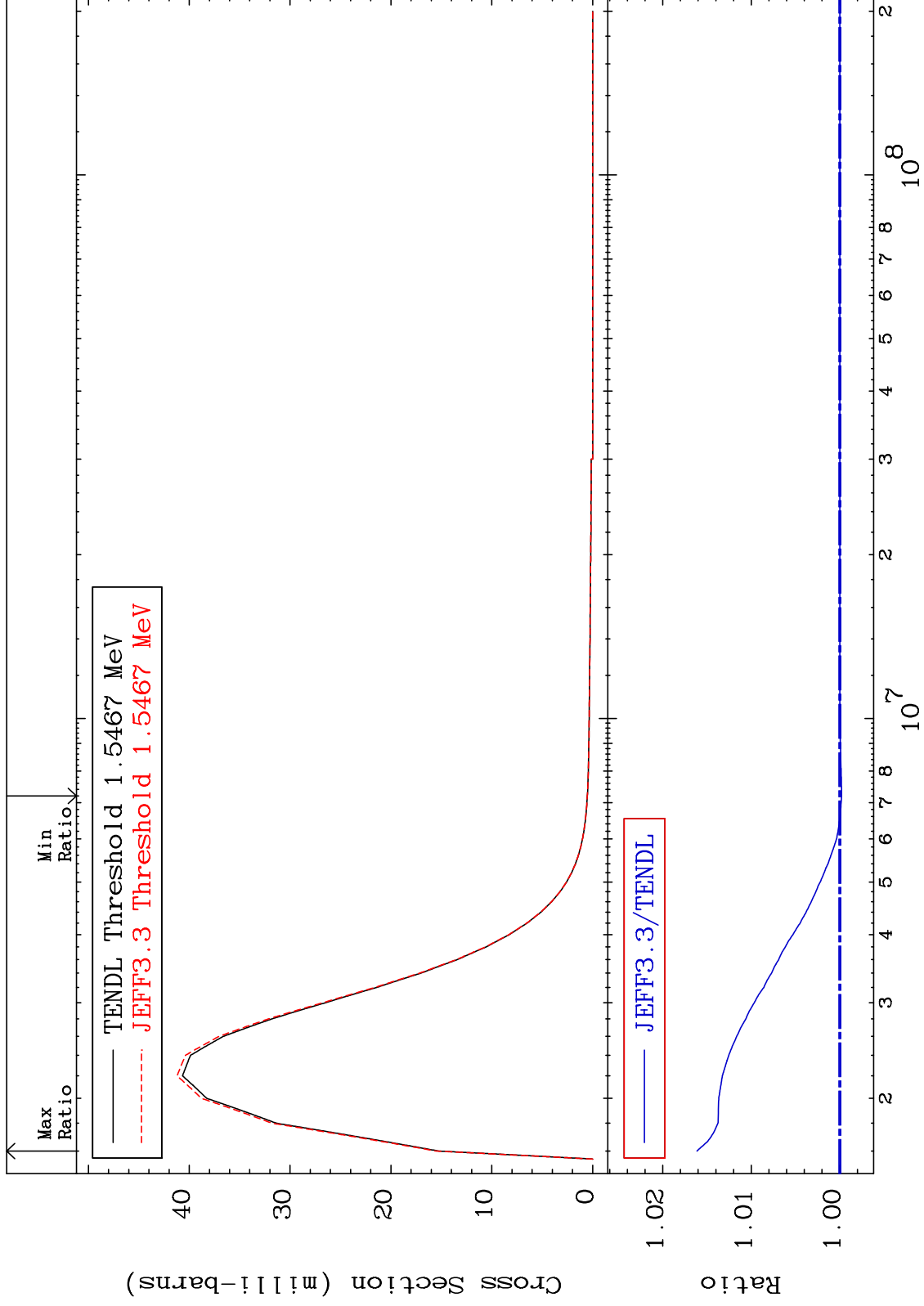
57-La-137
-0.004 To 1.204 %



MAT 5722

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

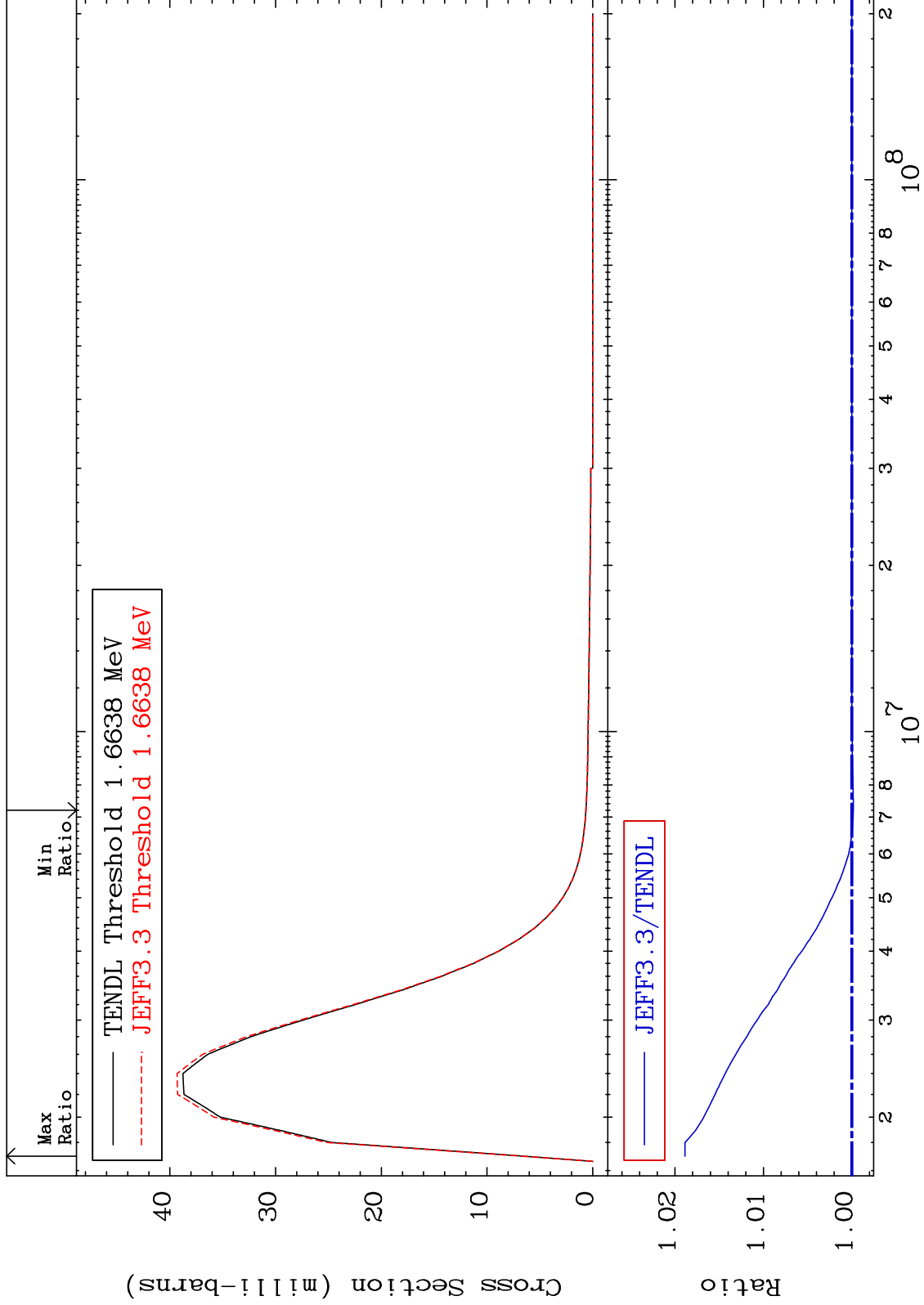
57-La-137
-0.021 To 1.614 %



MAT 5722

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

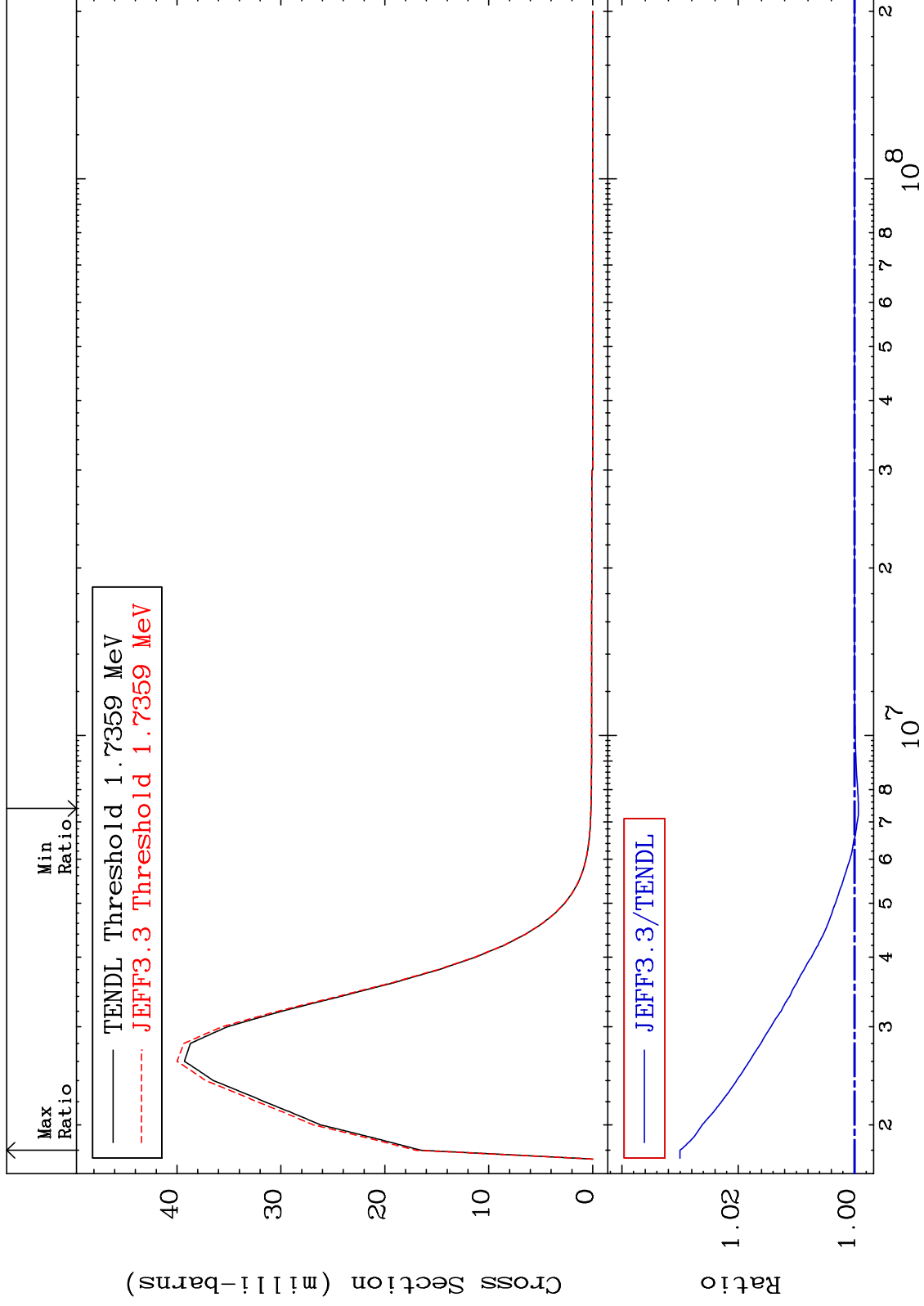
57-La-137
-0.018 To 1.887 %



MAT 5722

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

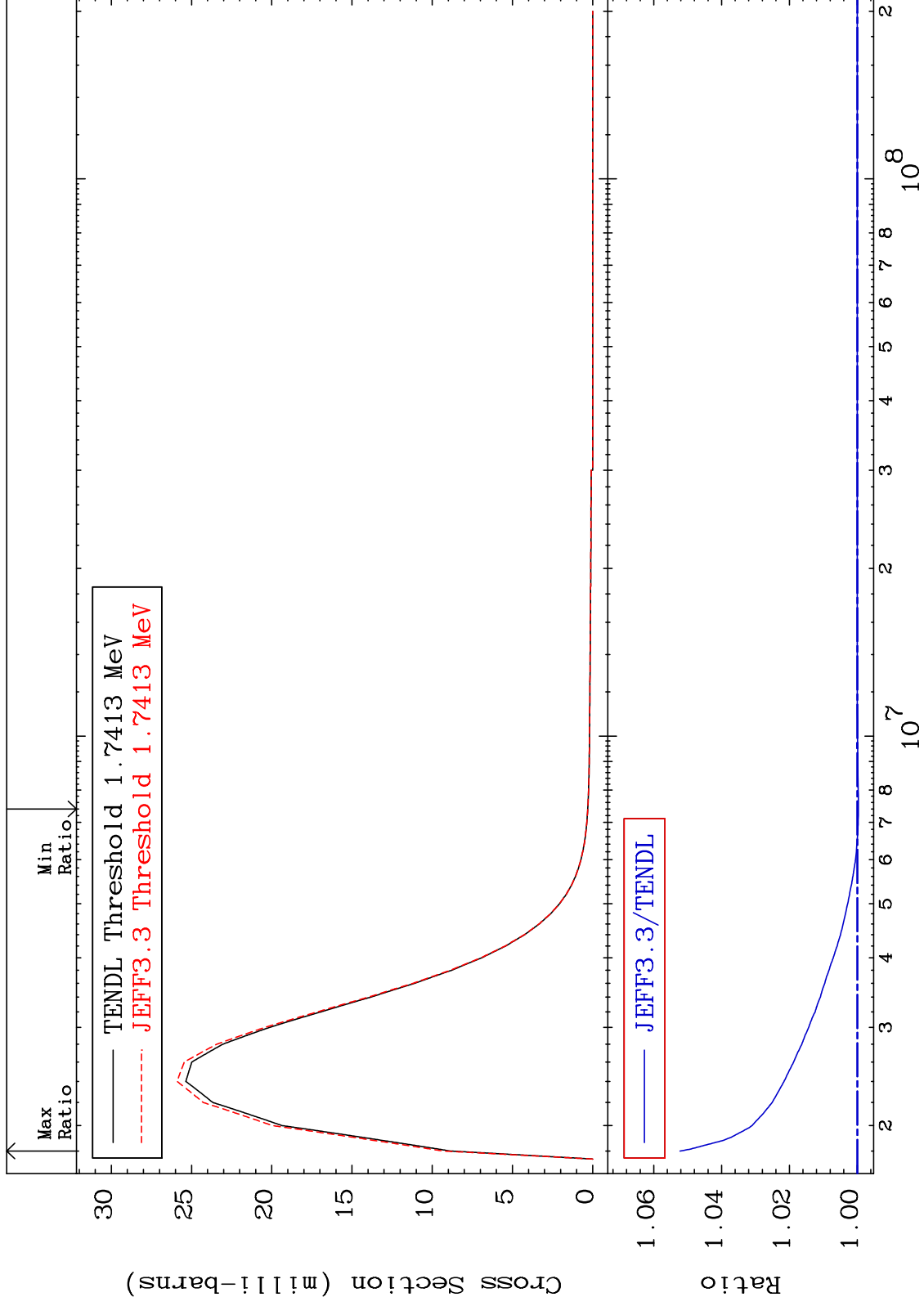
57-La-137
-0.067 To 3.001 %



MAT 5722

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

57-La-137
-0.033 To 5.225 %



40

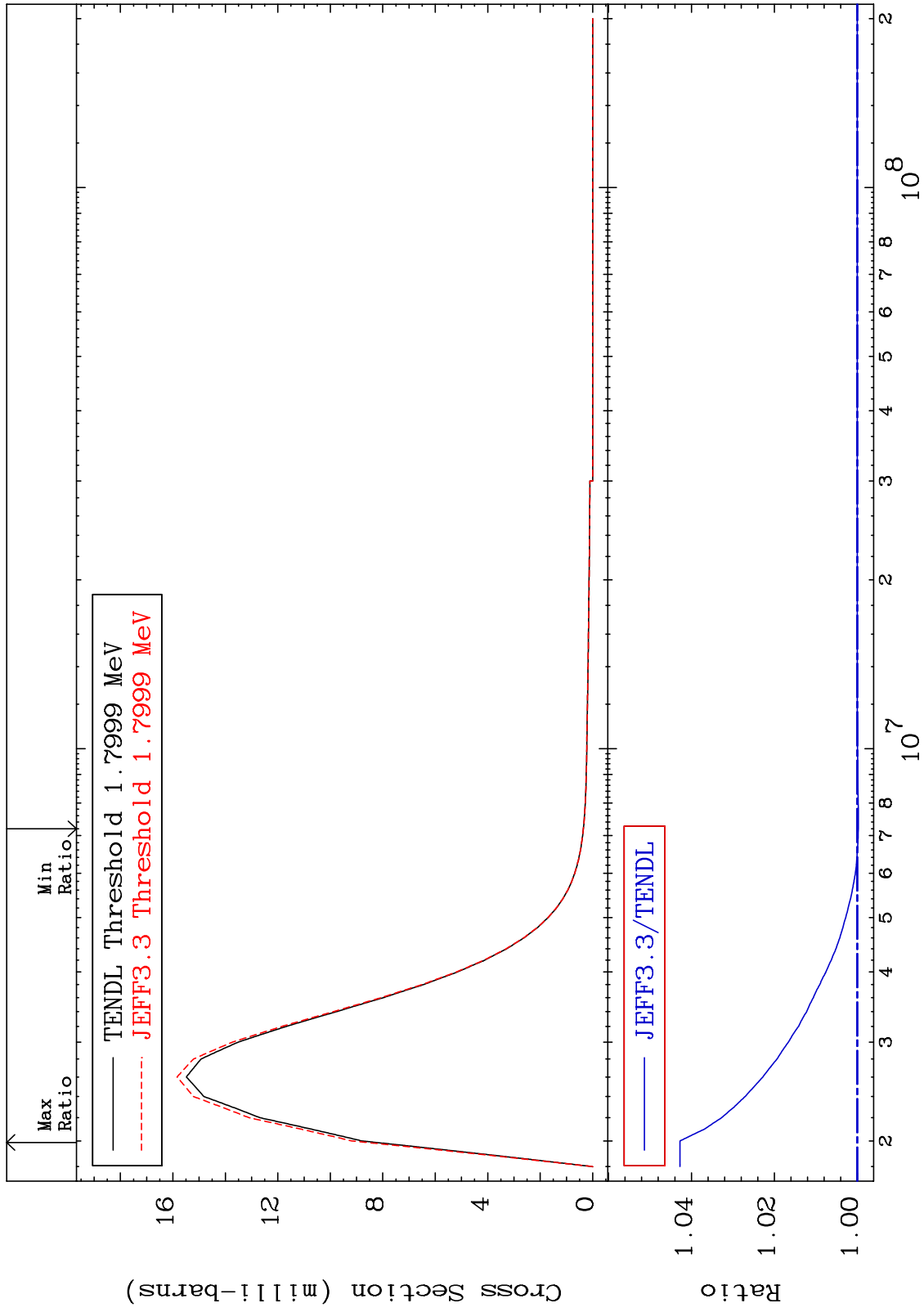
Incident Energy (eV)

57-La-137

MAT 5722

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

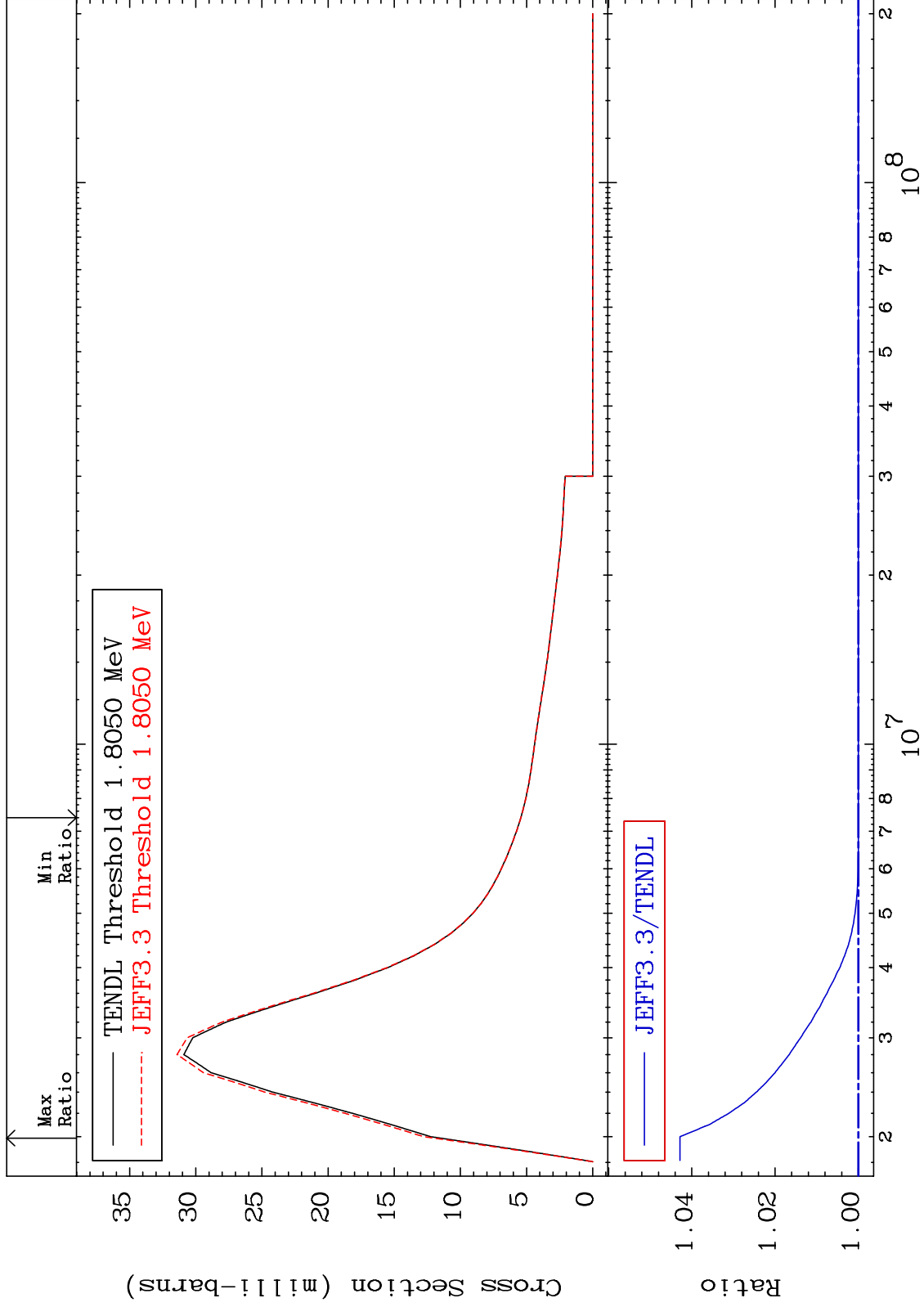
57-La-137
-0.026 To 4.275 %



MAT 5722

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

57-La-137
-0.002 To 4.283 %



42

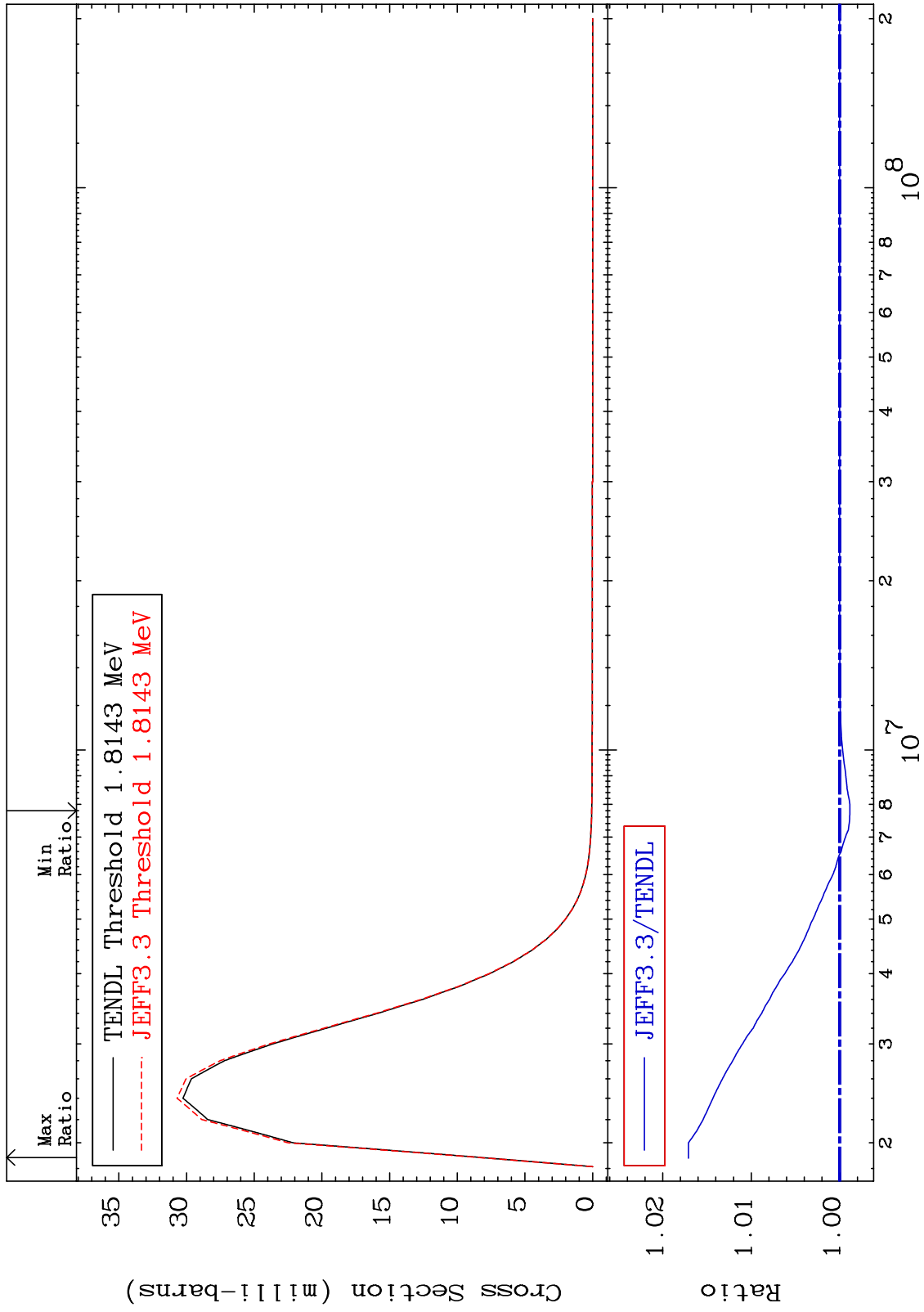
Incident Energy (eV)

57-La-137

MAT 5722

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

57-La-137
-0.116 To 1.709 %



43

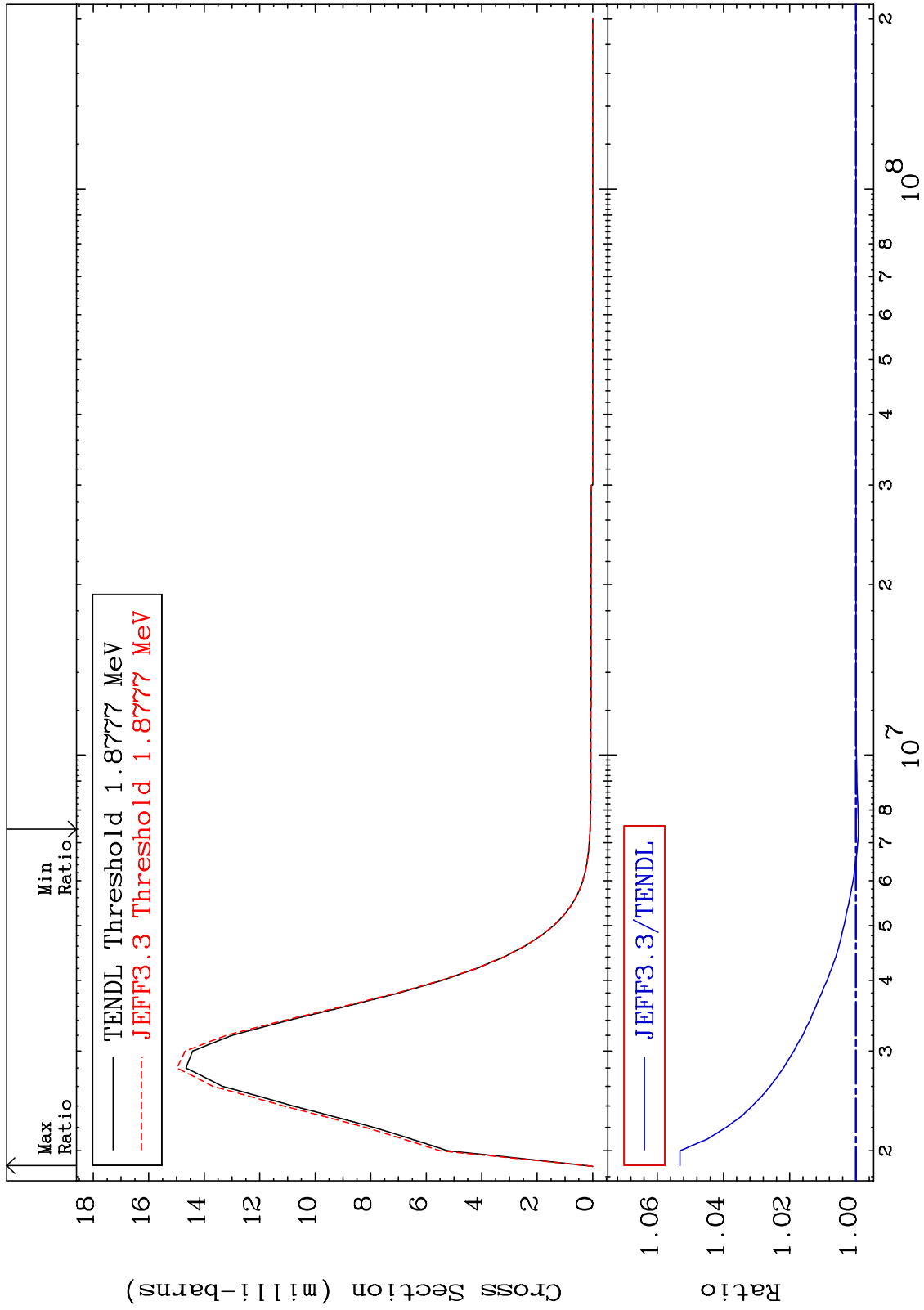
Incident Energy (eV)

57-La-137

MAT 5722

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

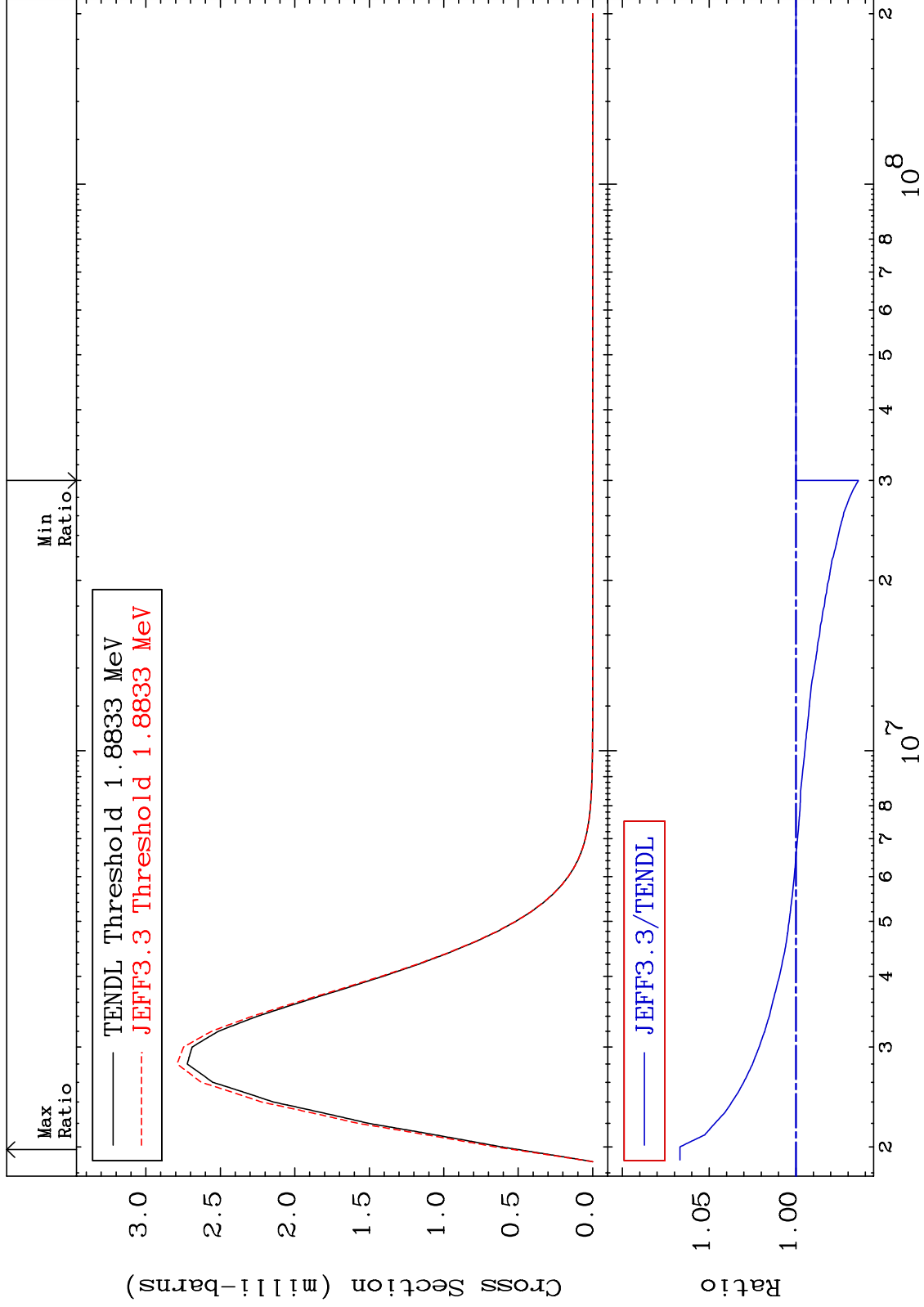
57-La-137
-0.074 To 5.313 %



MAT 5722

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

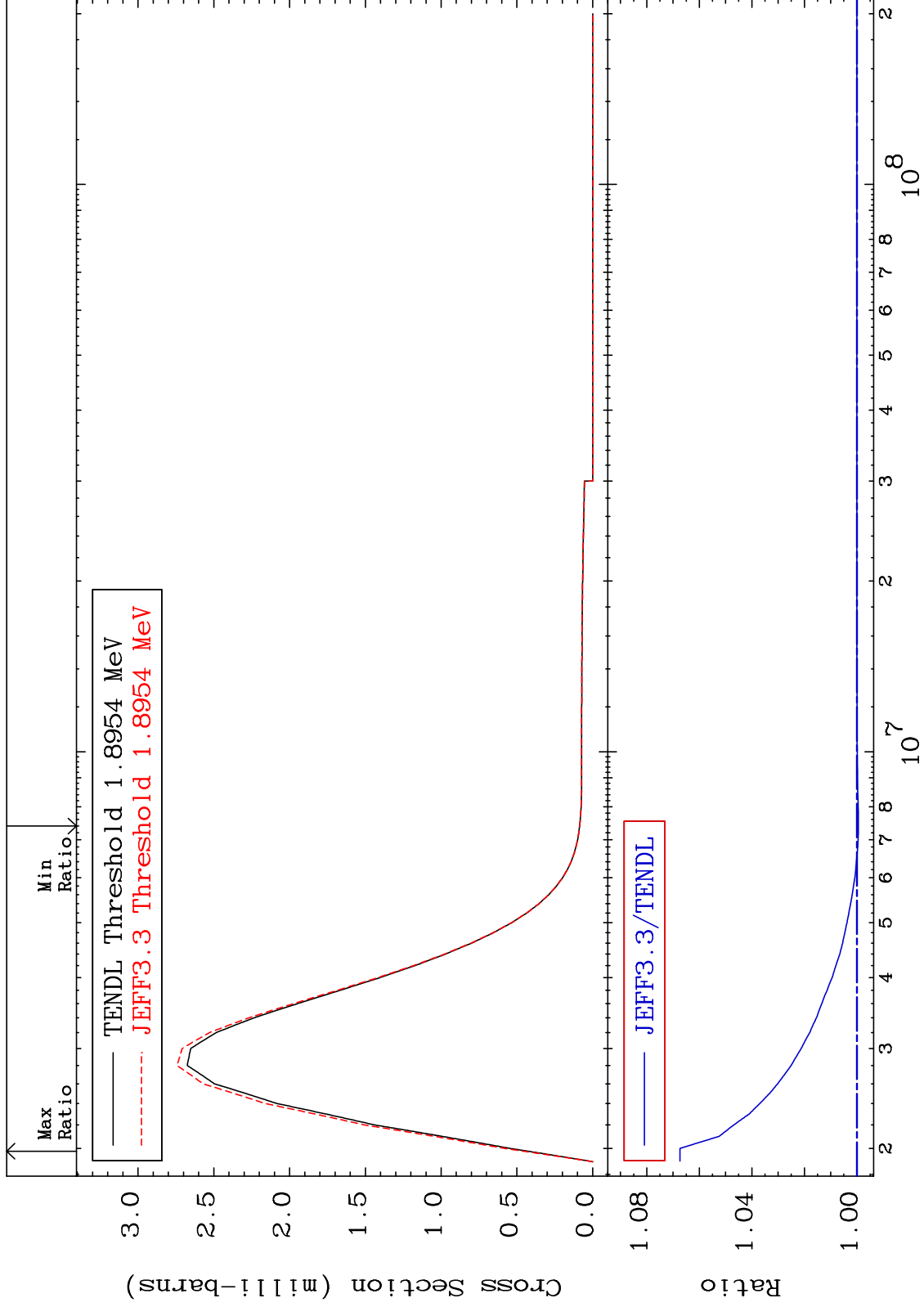
57-La-137
-3.597 To 6.681 %



MAT 5722

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

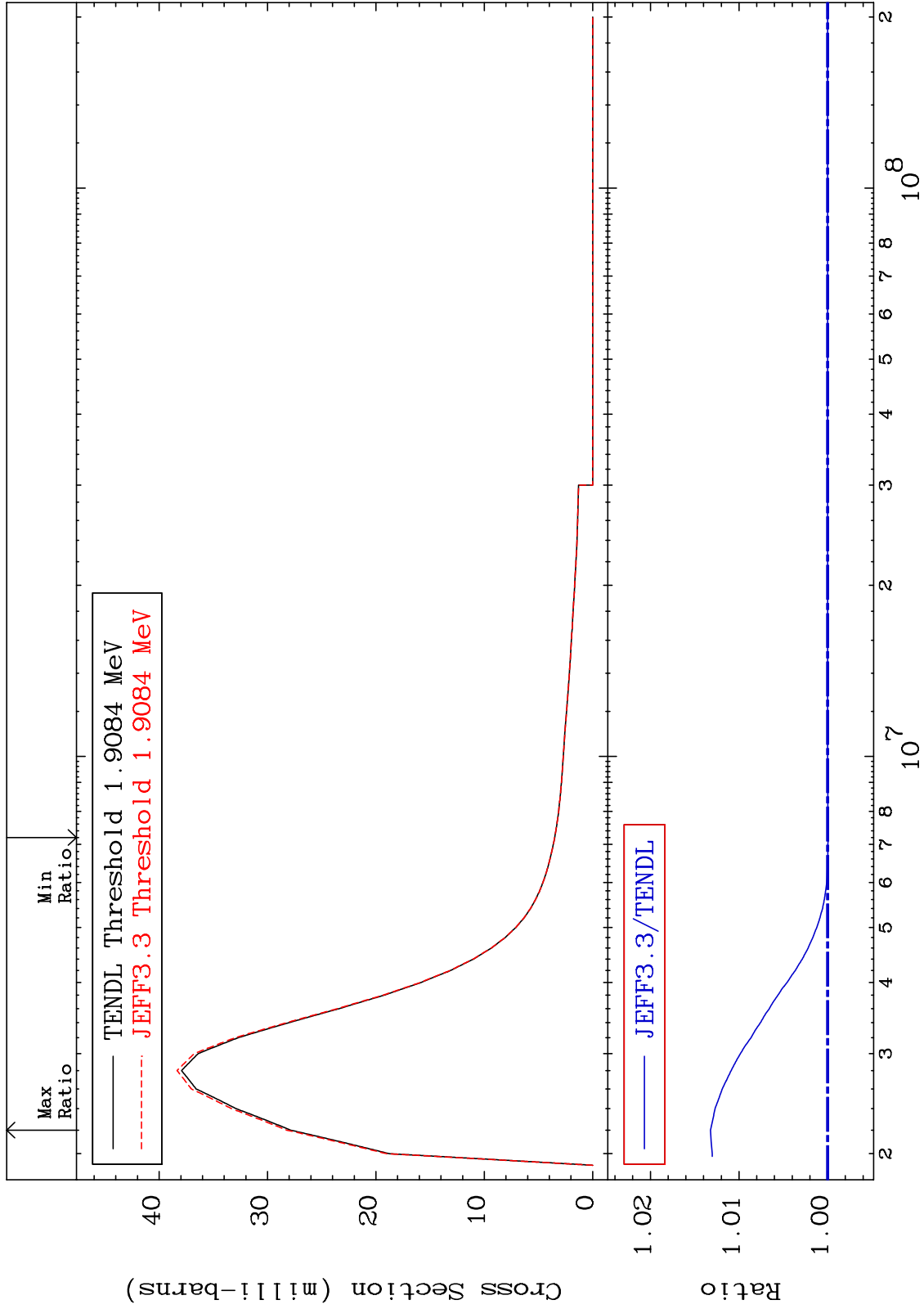
57-La-137
-0.056 To 6.735 %



MAT 5722

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

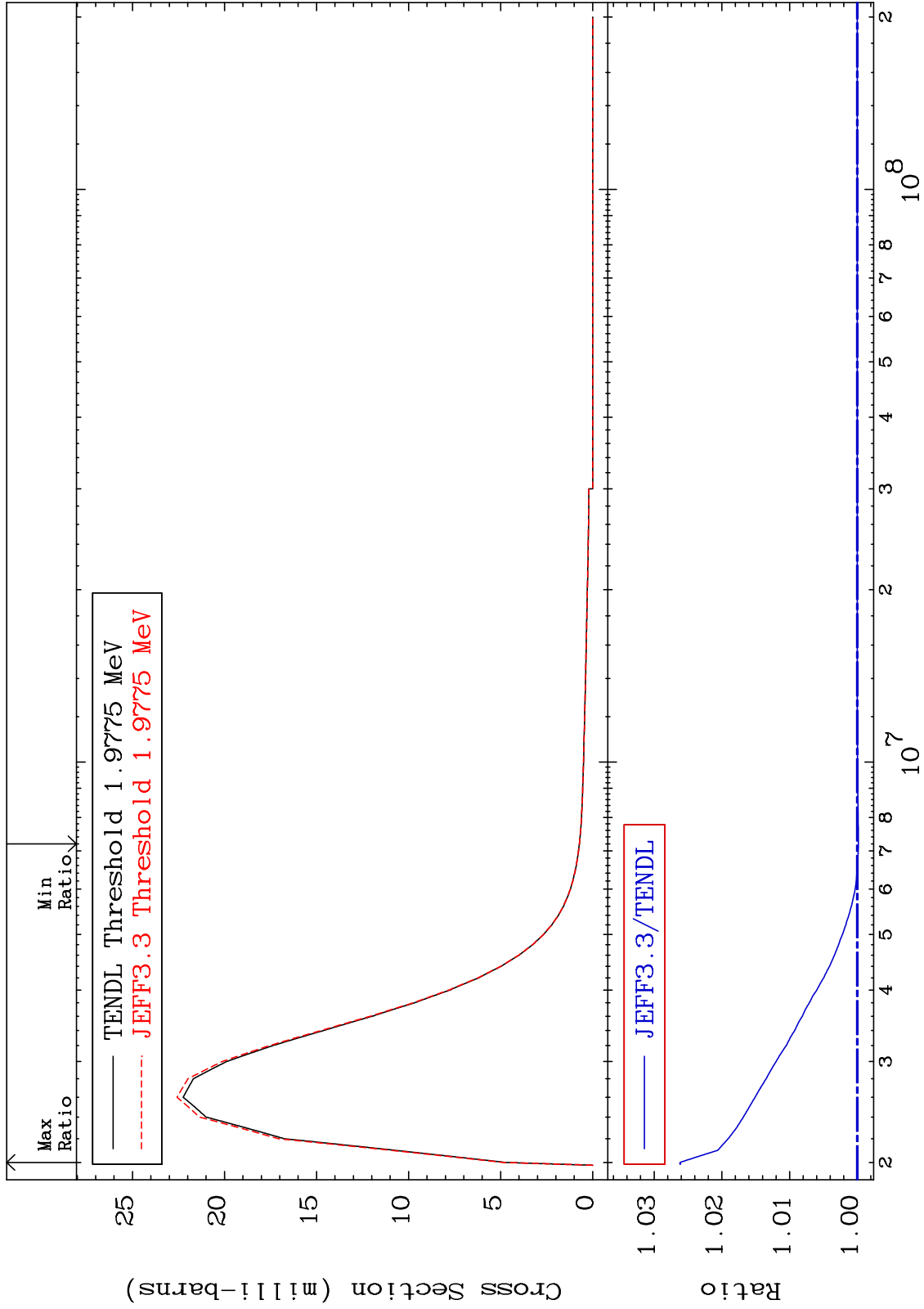
57-La-137
-0.004 To 1.323 %



MAT 5722

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

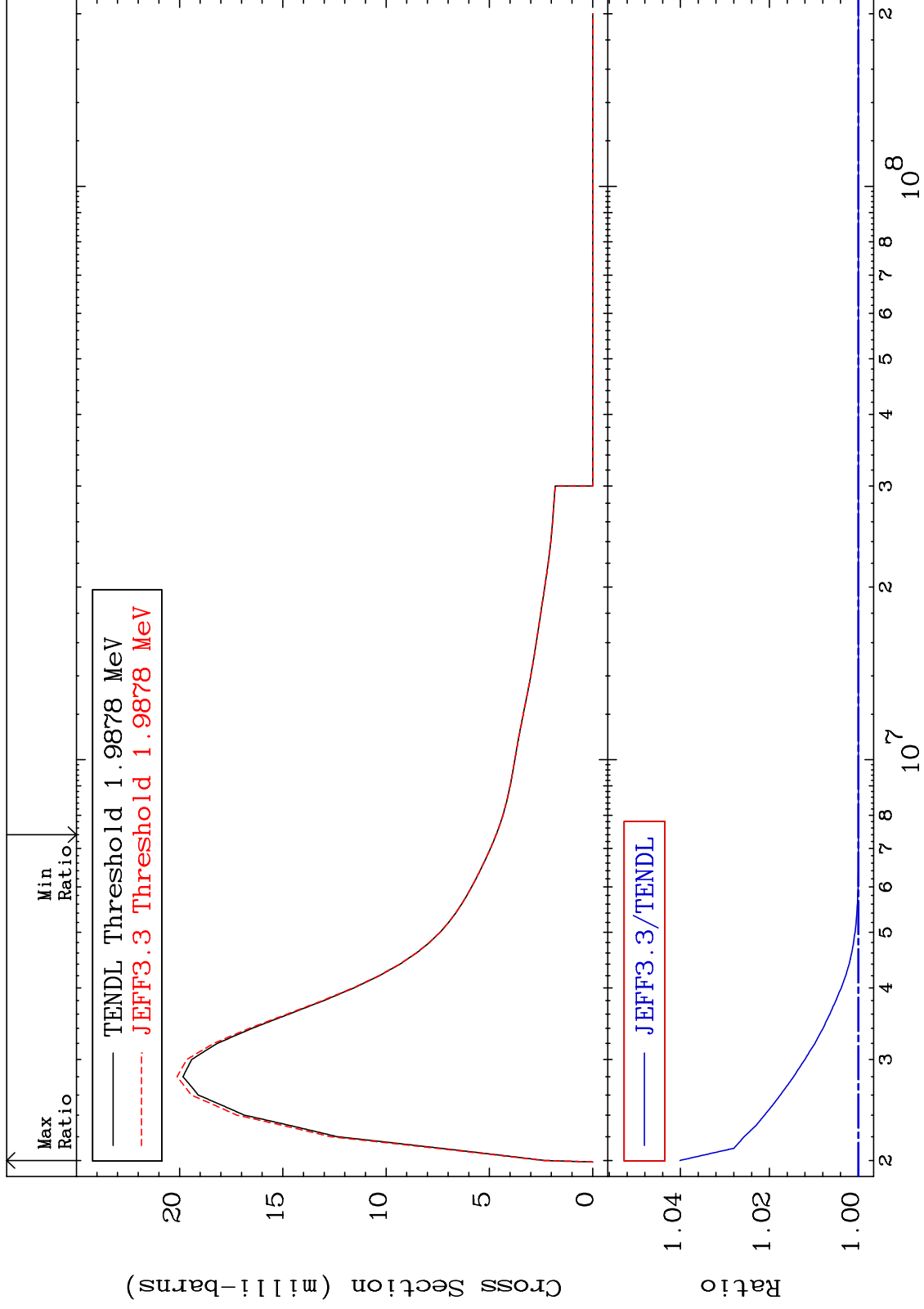
57-La-137
-0.016 To 2.618 %



MAT 5722

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

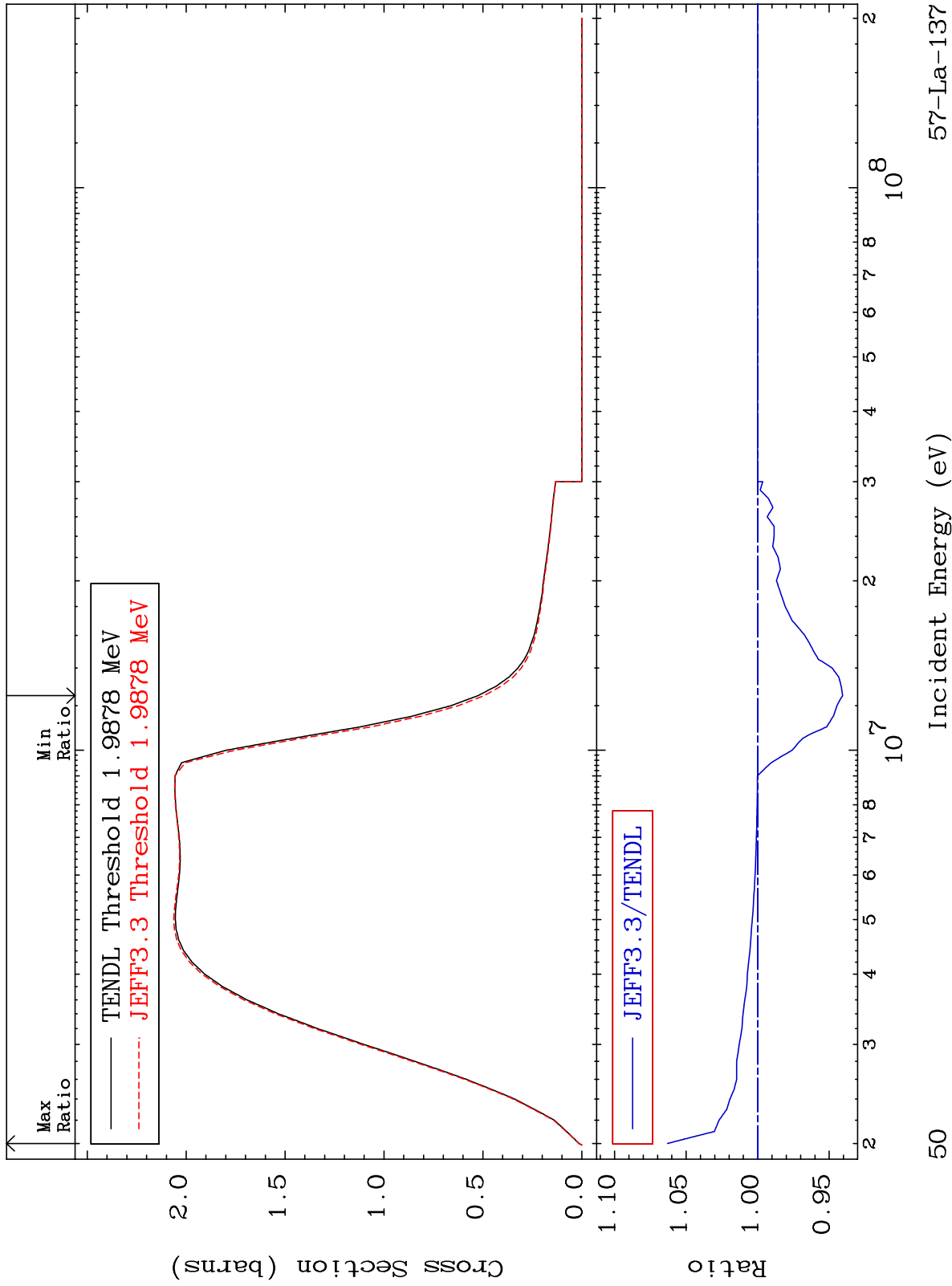
57-La-137
-0.002 To 4.010 %



MAT 5722

(n, n') Continuum
Cross Section

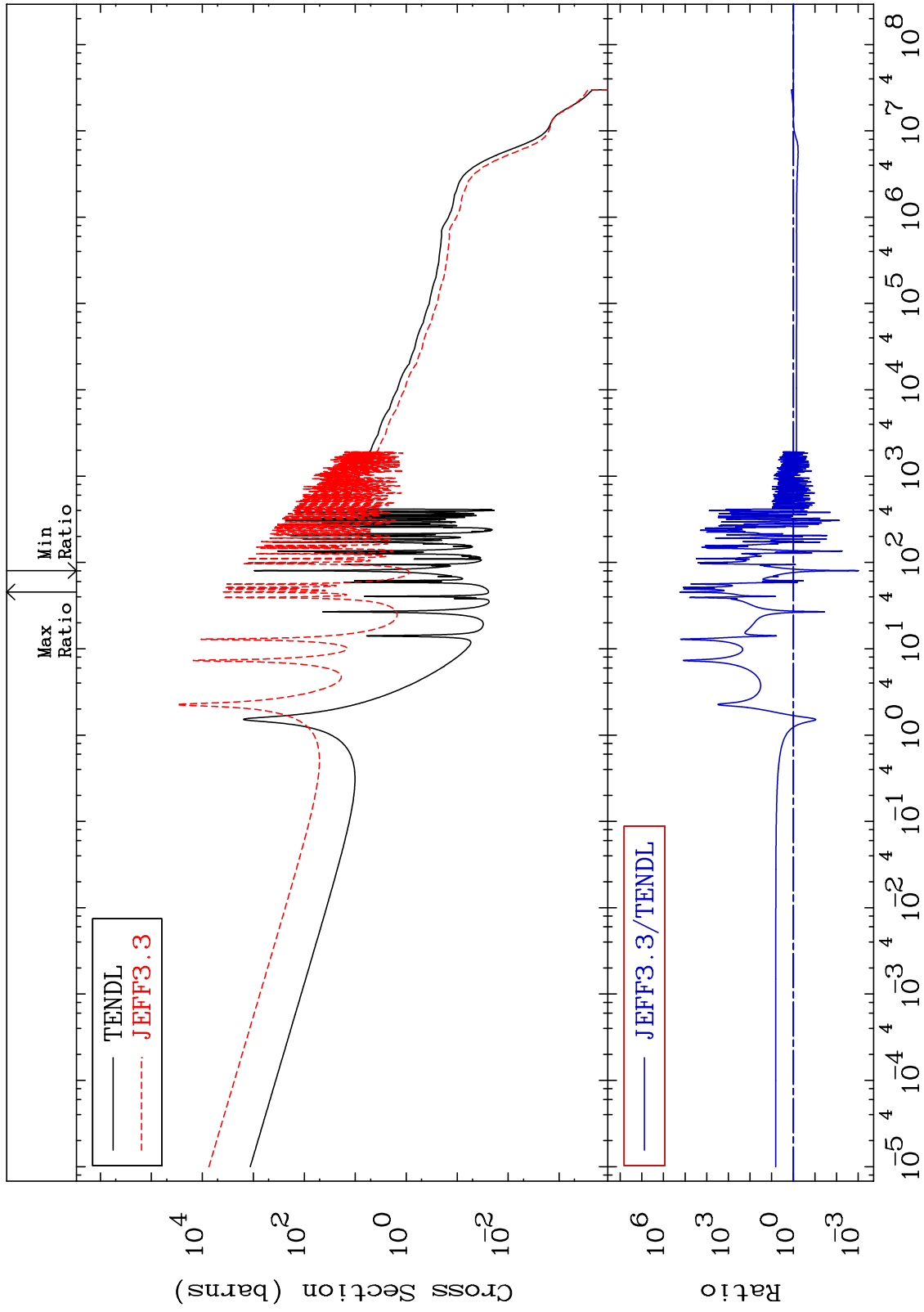
57-La-137
-5.939 To 6.300 %



MAT 5722

(n, γ)
Cross Section

57-La-137
-99.90 To 9999. %



51

Incident Energy (eV)

57-La-137

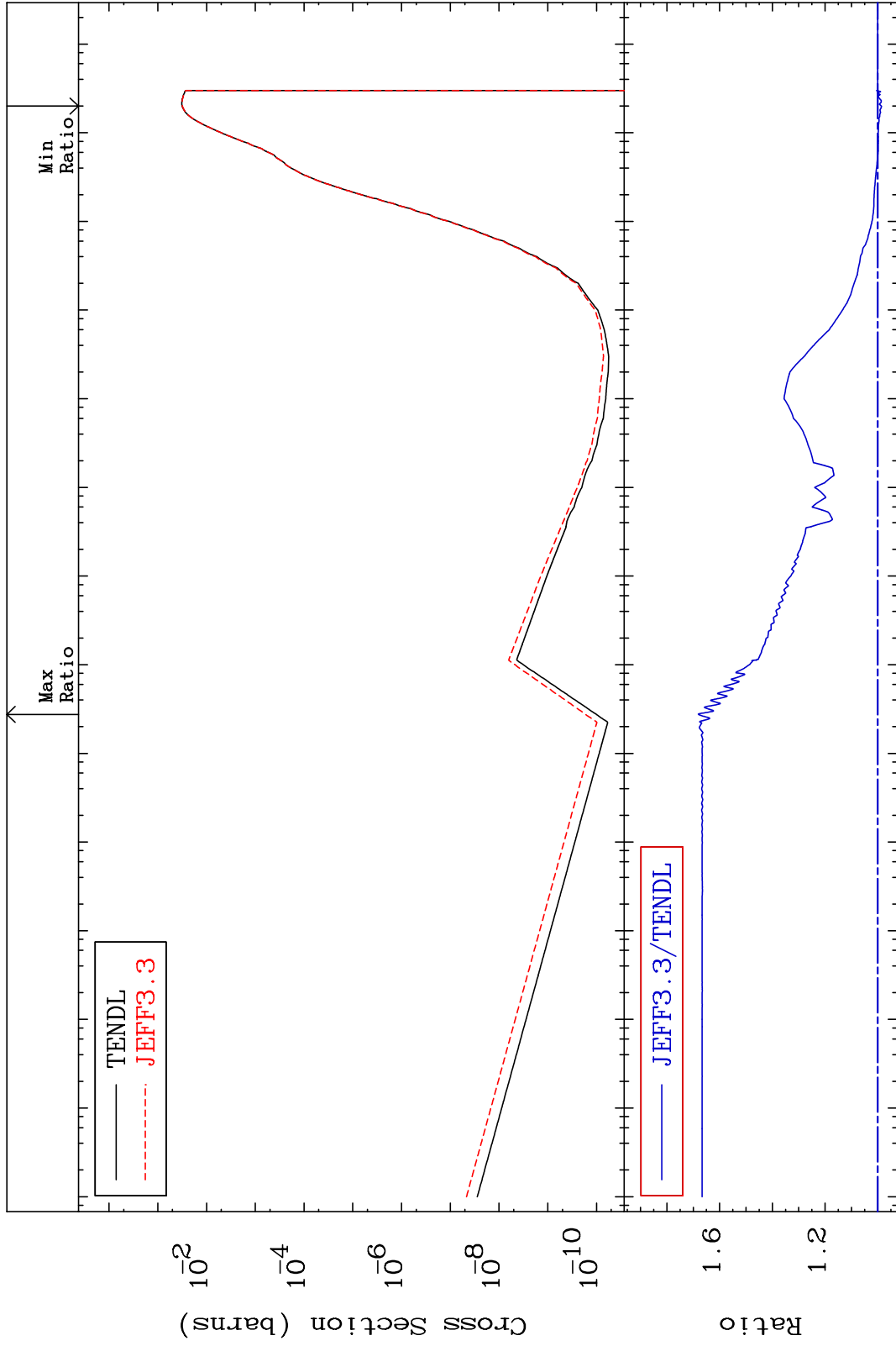
MAT 5722

(n,p)

57-La-137

Cross Section

-1.424 To 68.07 %



Incident Energy (eV)

57-La-137

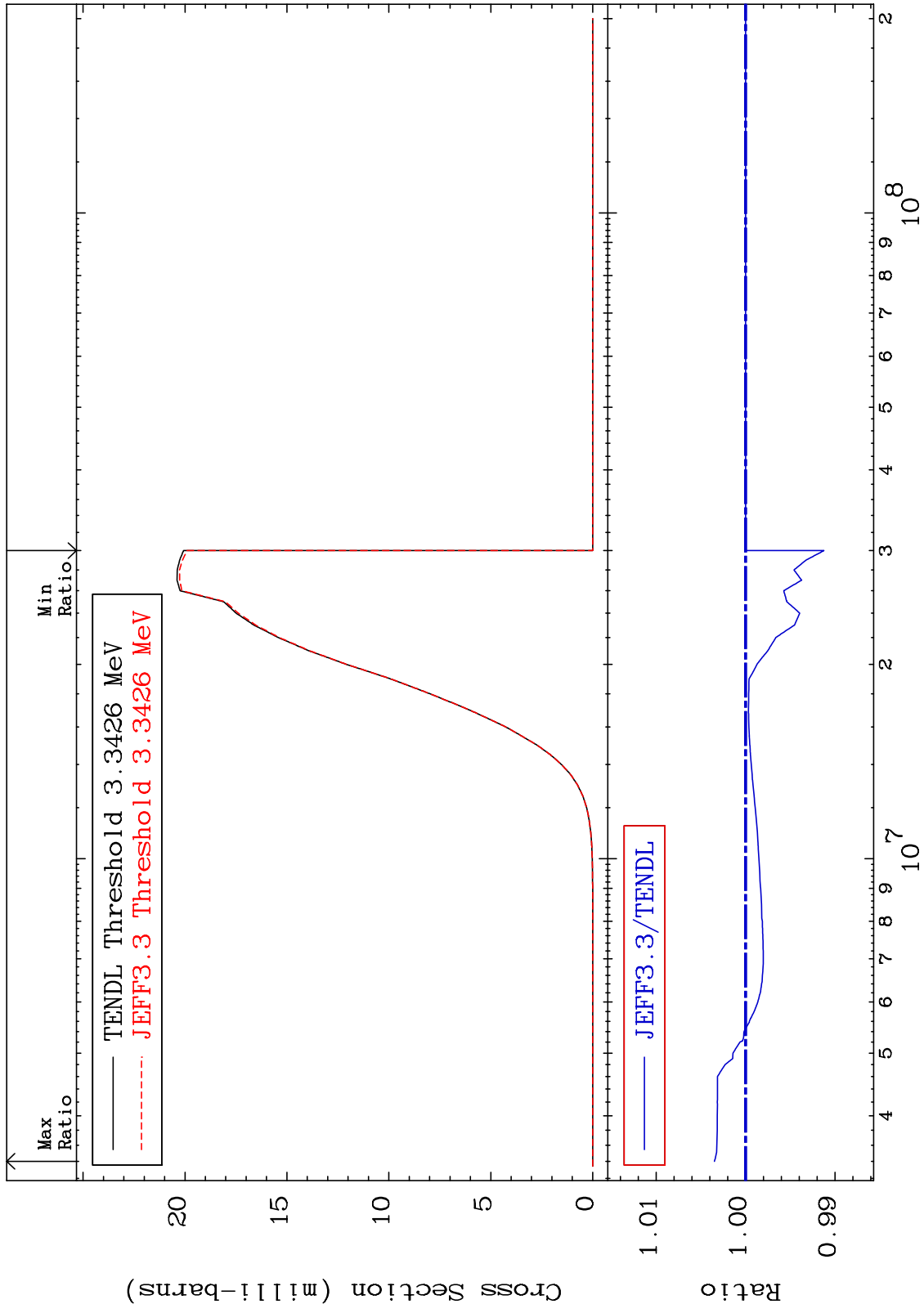
MAT 5722

(n, d)

57-La-137

Cross Section

-0.876 To 0.348 %



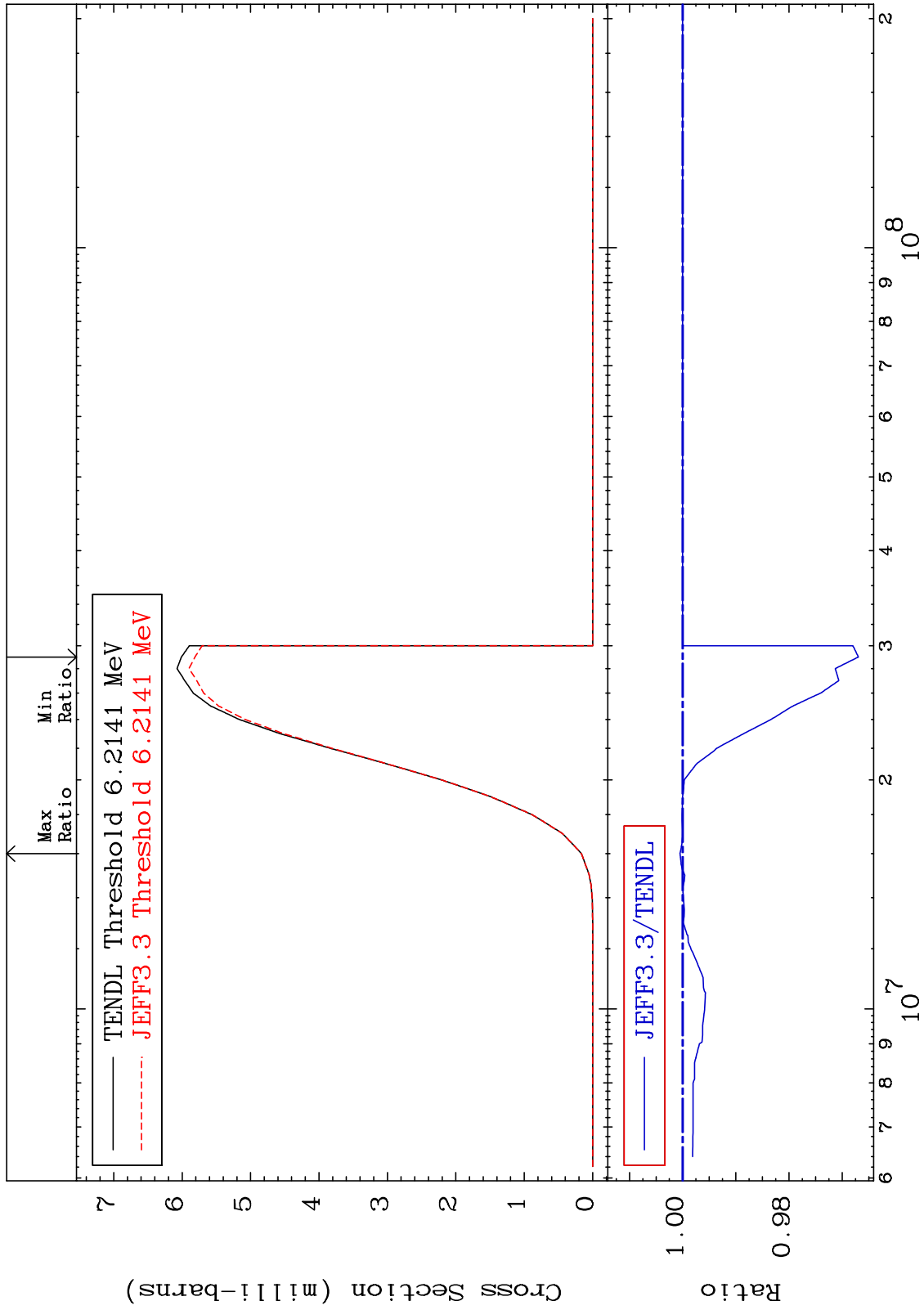
MAT 5722

(n, t)

57-La-137

Cross Section

-3.304 To 0.050 %



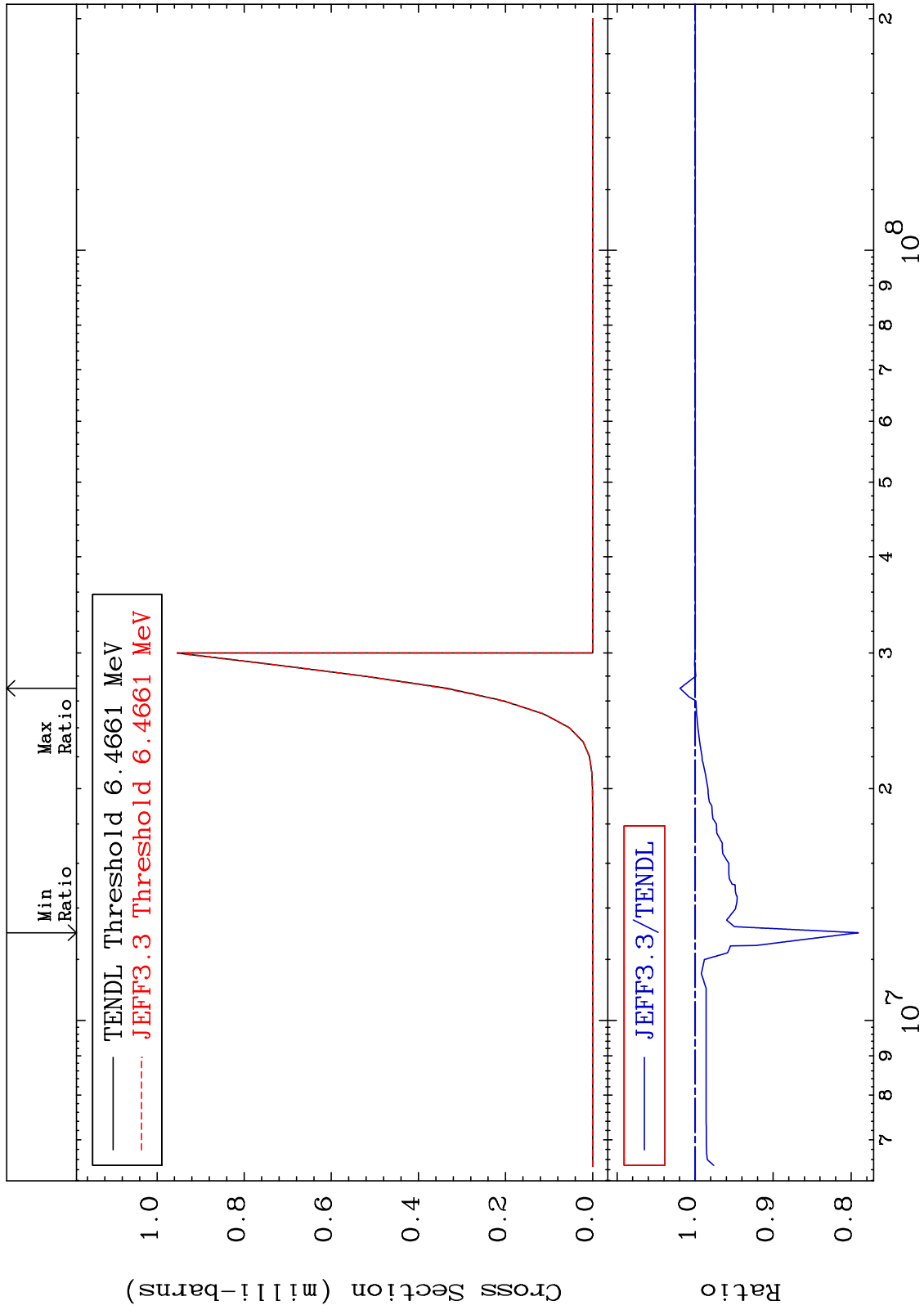
MAT 5722

(n, He-3)

57-La-137

-20.92 To 1.938 %

Cross Section



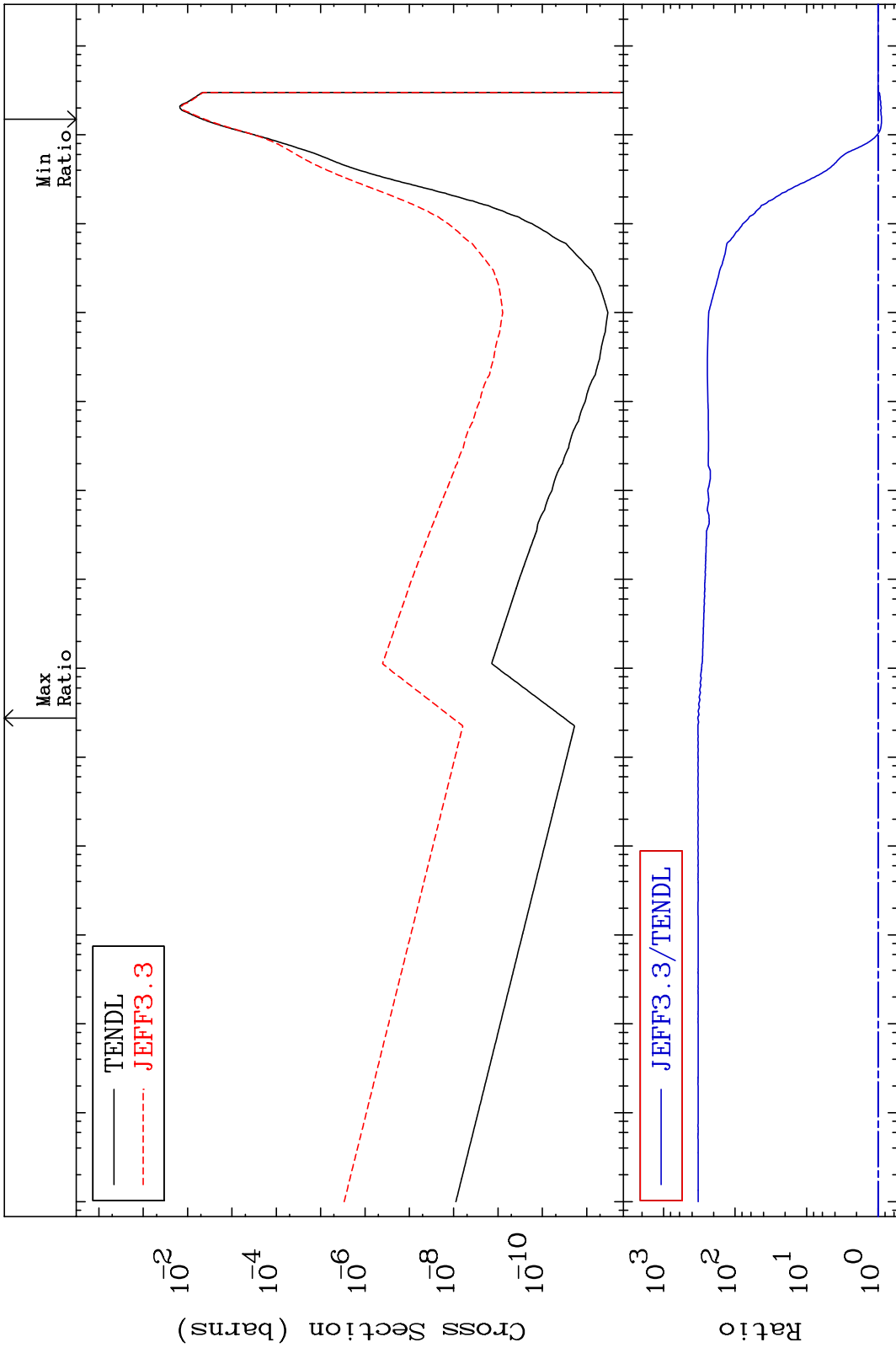
MAT 5722

(n, α)

57-La-137

-10.31 To 9999. %

Cross Section



Incident Energy (eV)

57-La-137

56

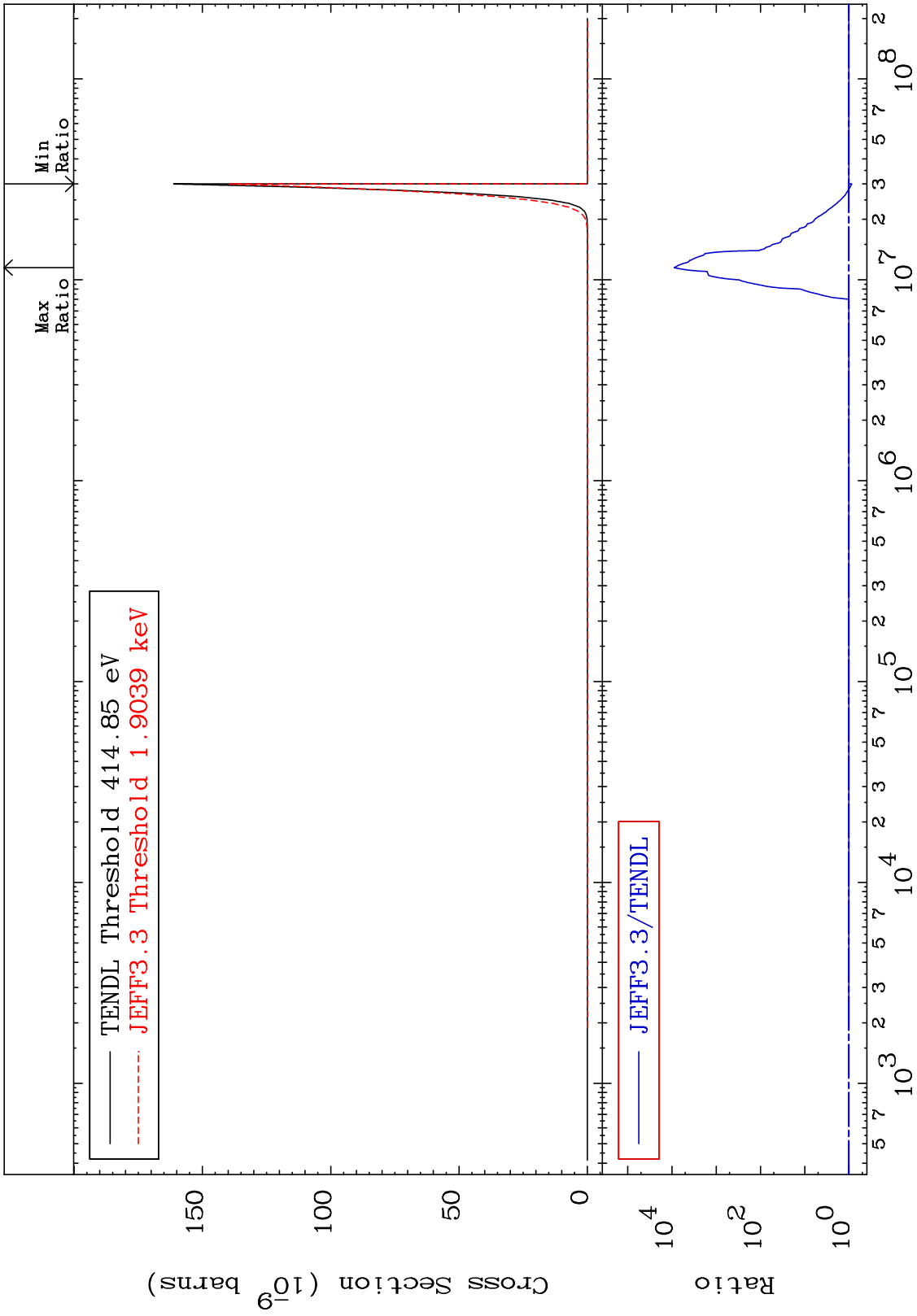
MAT 5722

(n, 2α)

57-La-137

Cross Section

-13.43 To 9999. %



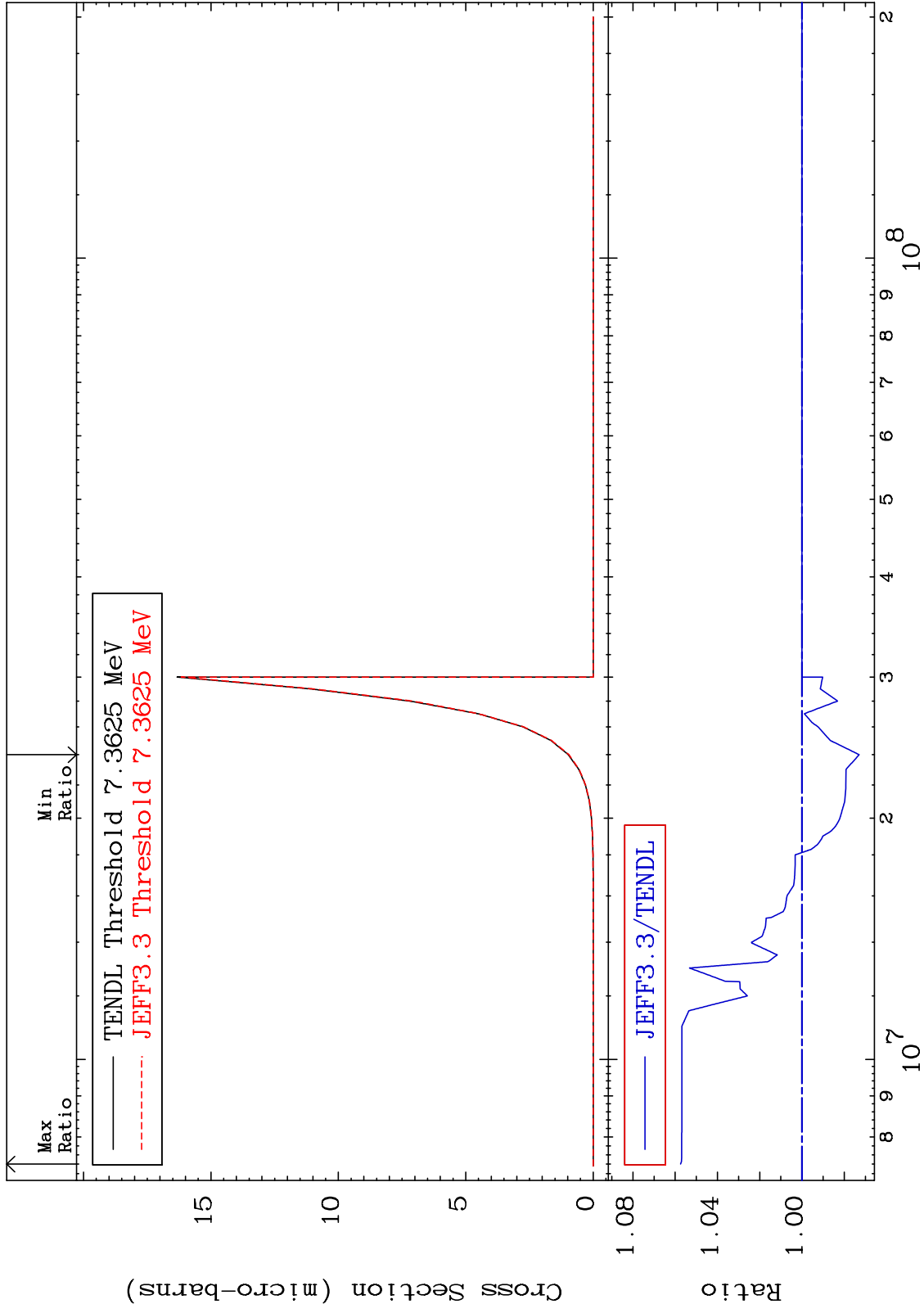
MAT 5722

(n,2p)

57-La-137

Cross Section

-2.706 To 5.743 %



58

Incident Energy (eV)

57-La-137

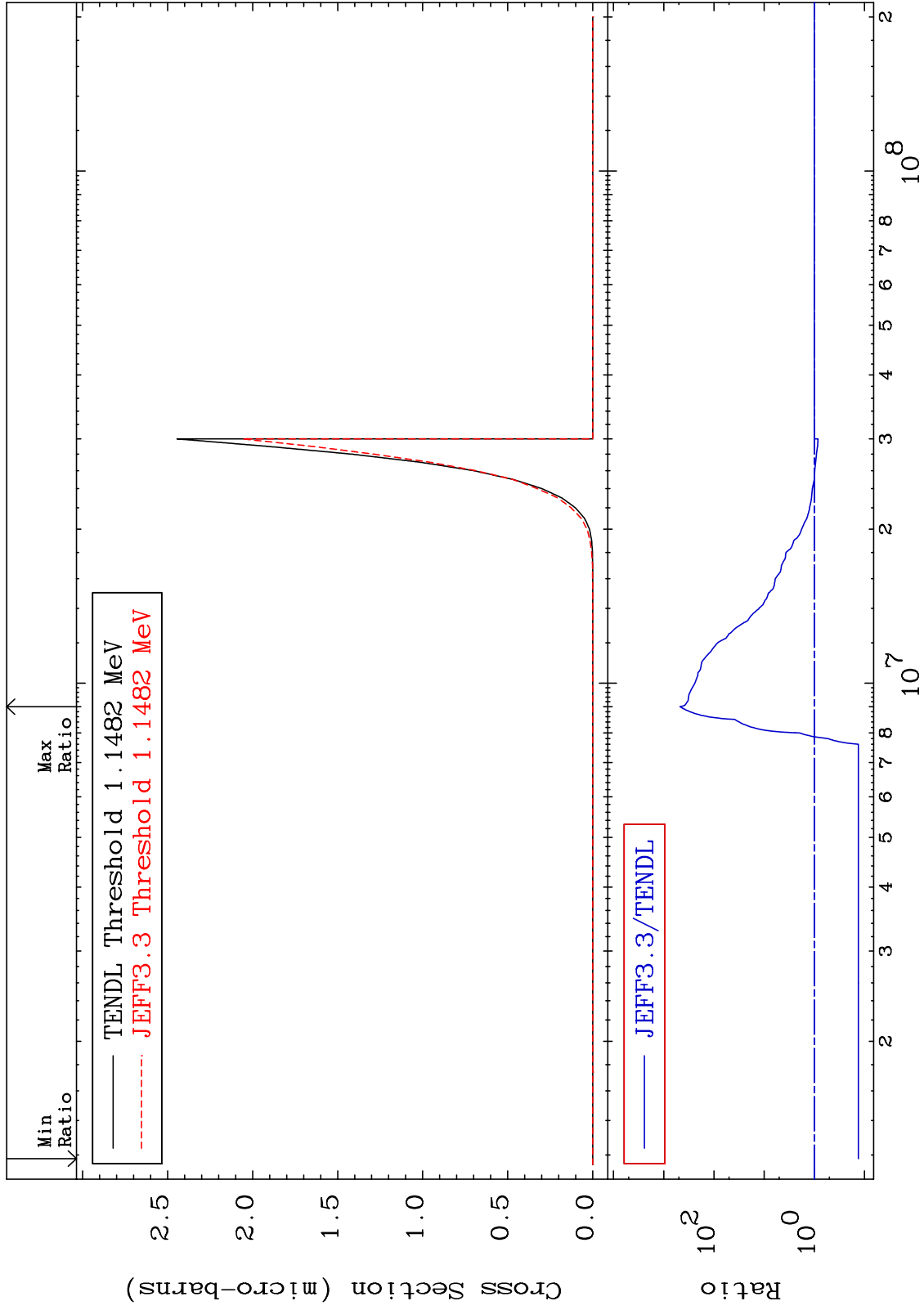
MAT 5722

(n,p) α

57-La-137

-86.78 To 9999. %

Cross Section



MAT 5722

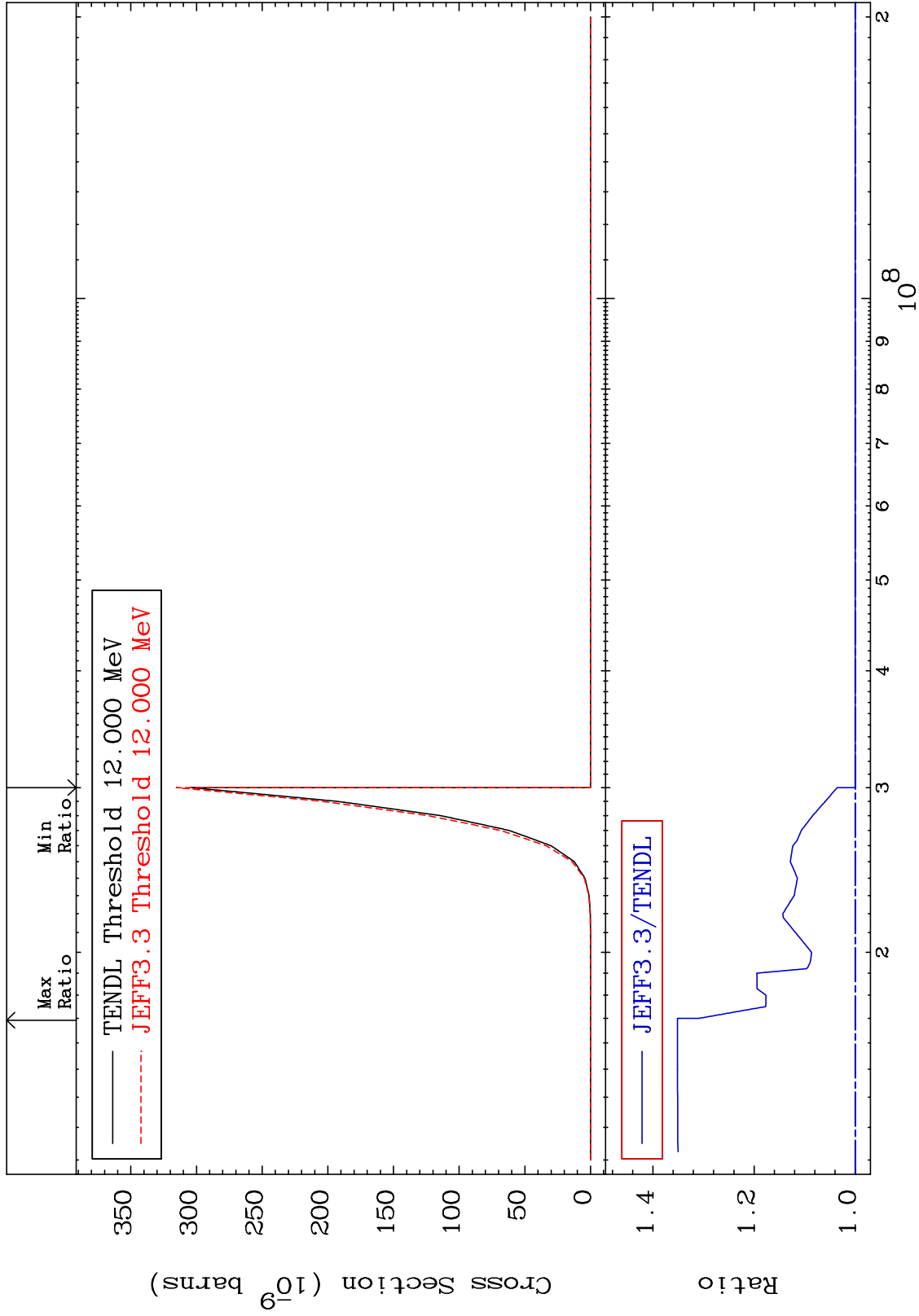
(n,p) d

57-La-137

Cross Section

0.000

To 35.14 %



60

Incident Energy (eV)

57-La-137

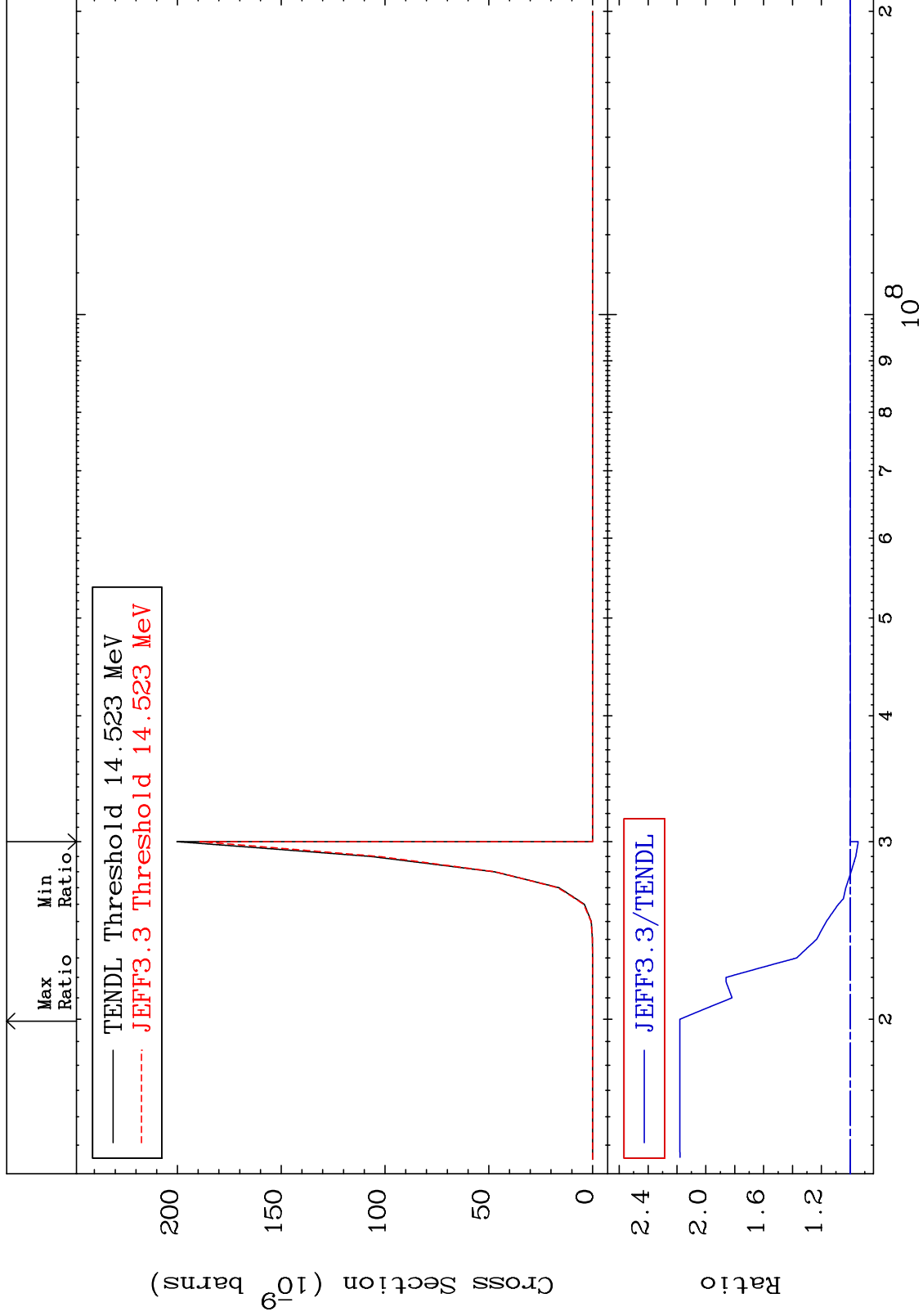
MAT 5722

(n,p) t

57-La-137

Cross Section

-5.490 To 118.0 %



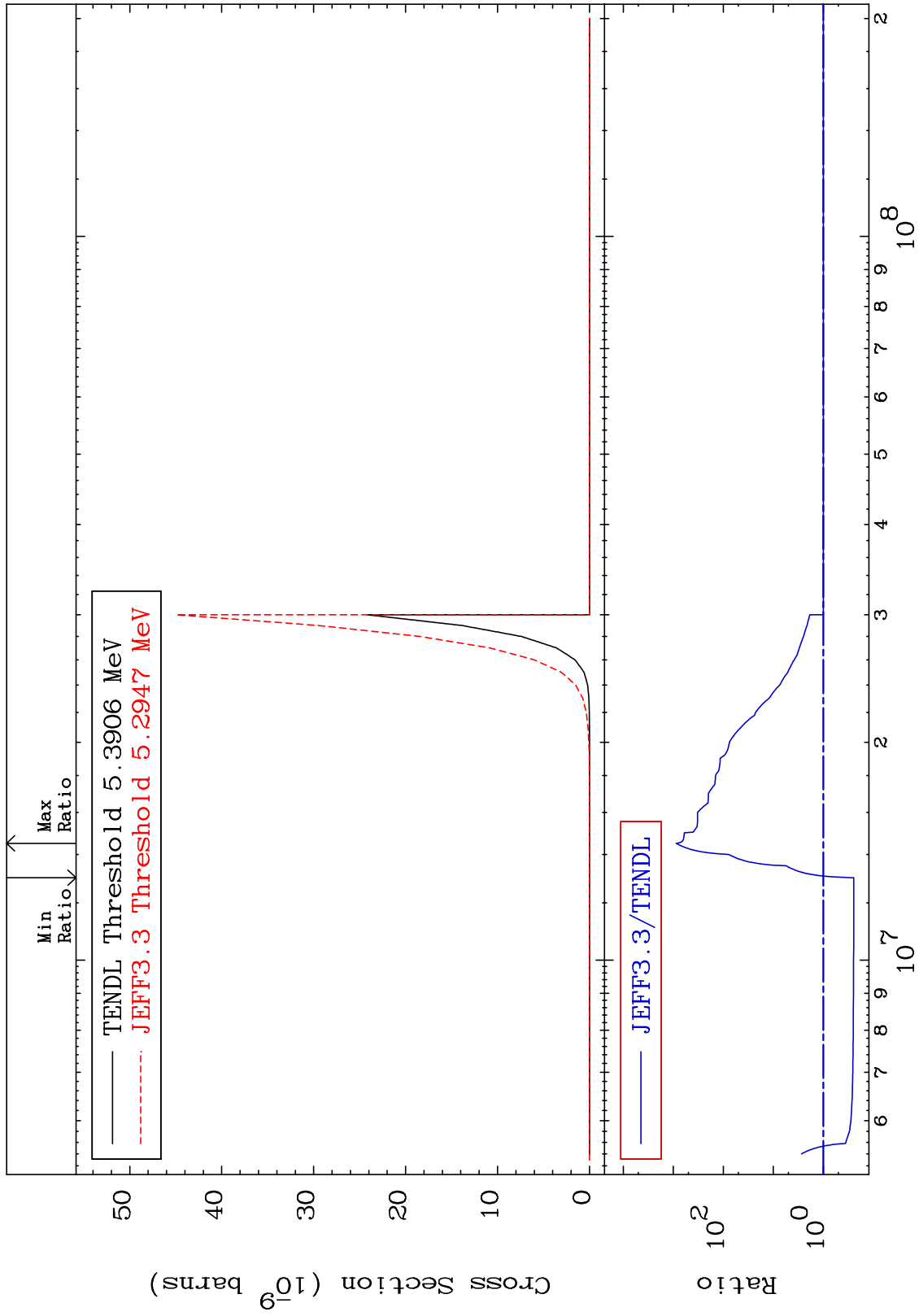
MAT 5722

(n,d) α

57-La-137

Cross Section

-75.38 To 9999. %



62

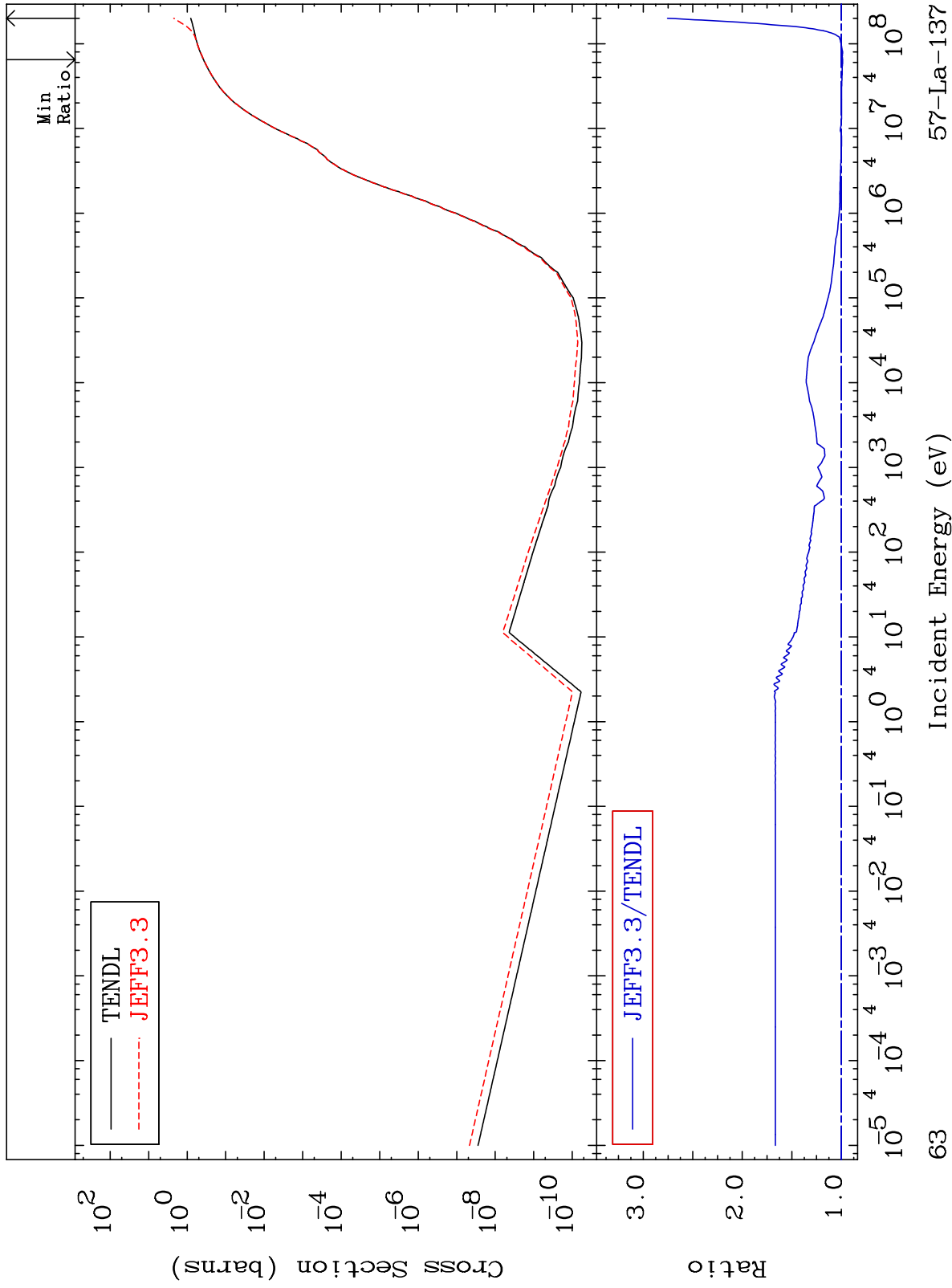
Incident Energy (eV)

57-La-137

MAT 5722

Hydrogen Production
Cross Section

57-La-137
-1.315 To 175.5 %



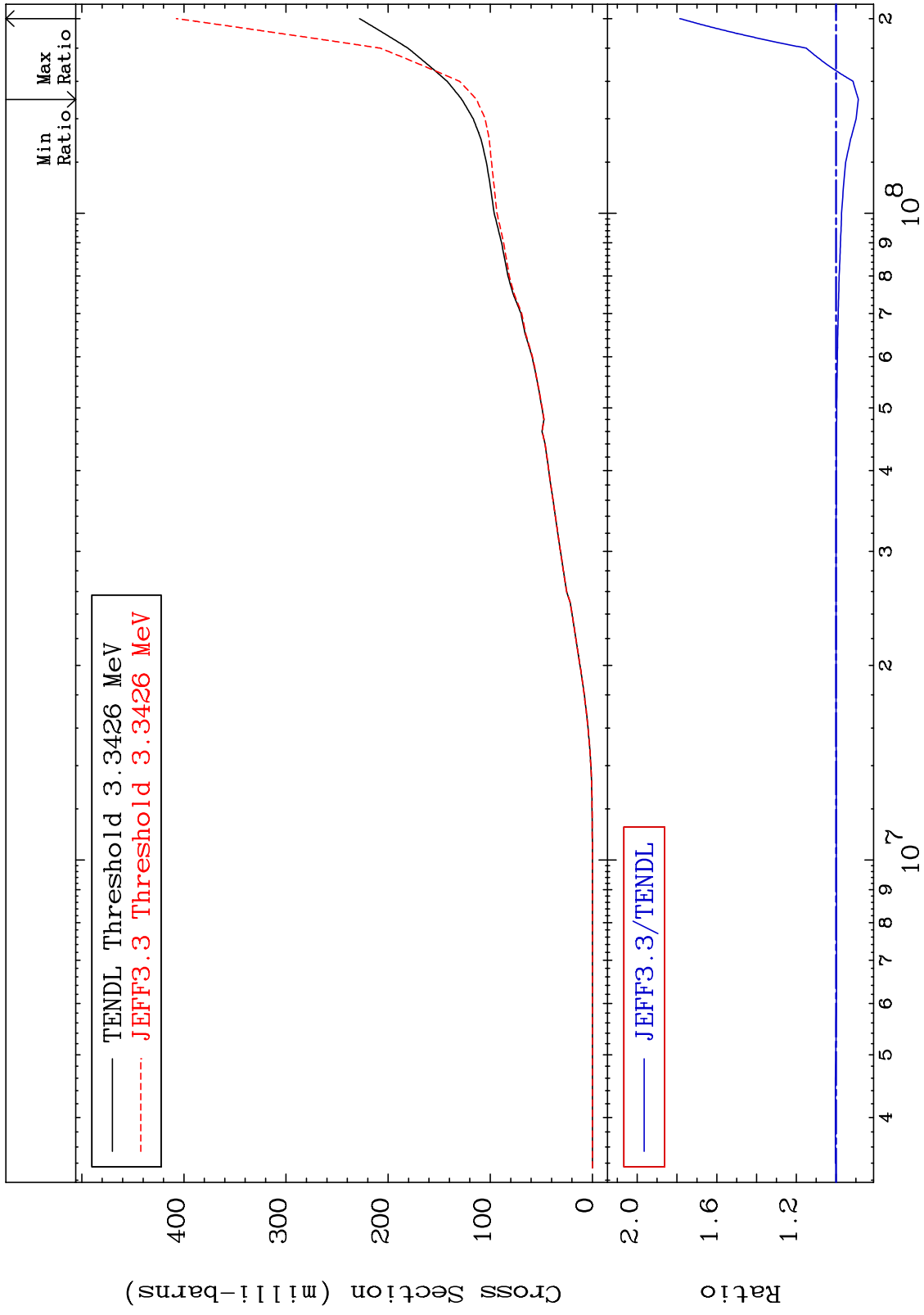
63

57-La-137

MAT 5722

Deuterium Production
Cross Section

57-La-137
-11.22 To 78.59 %



64

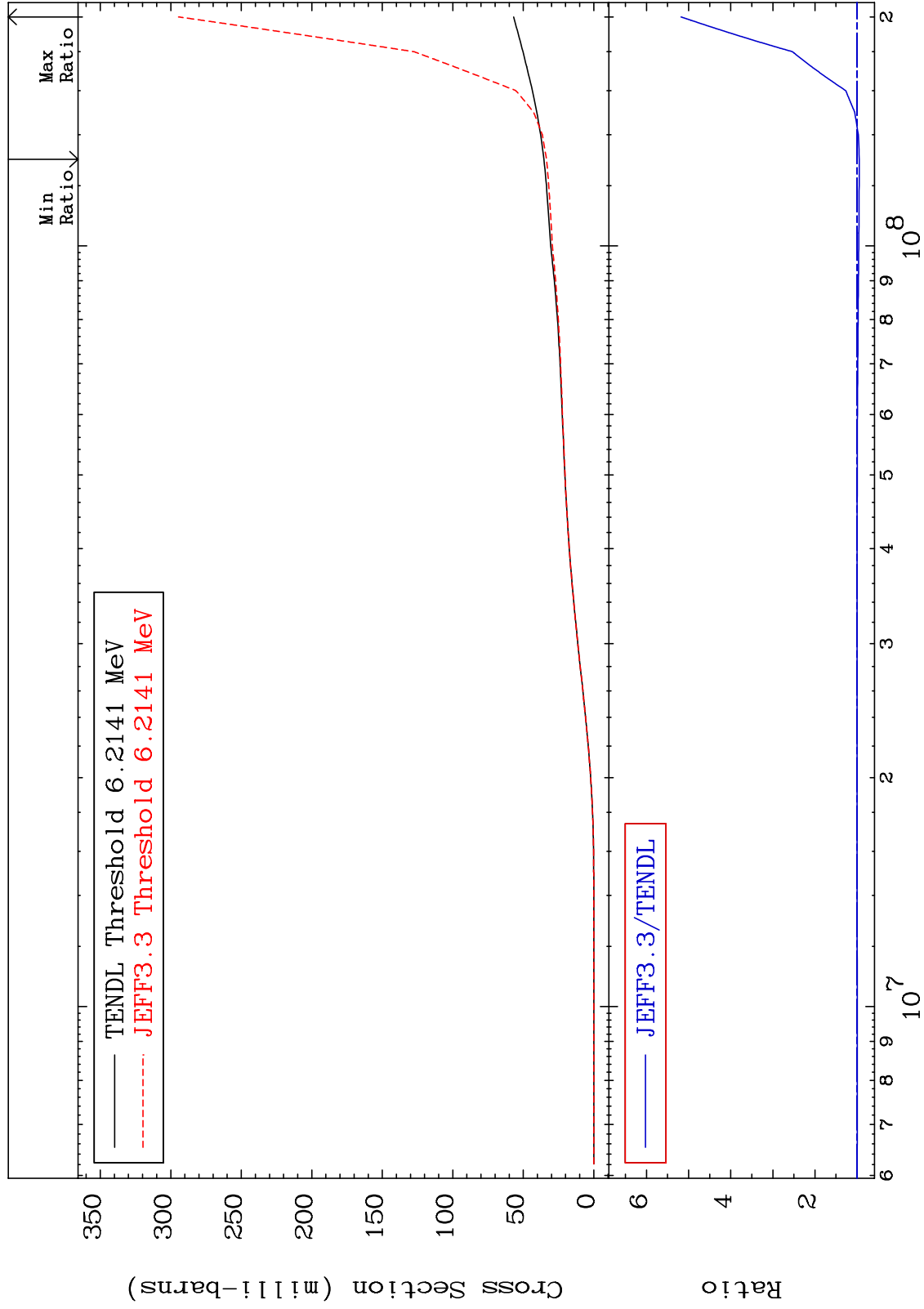
Incident Energy (eV)

57-La-137

MAT 5722

Tritium Production
Cross Section

57-La-137
-5.215 To 417.9 %



65

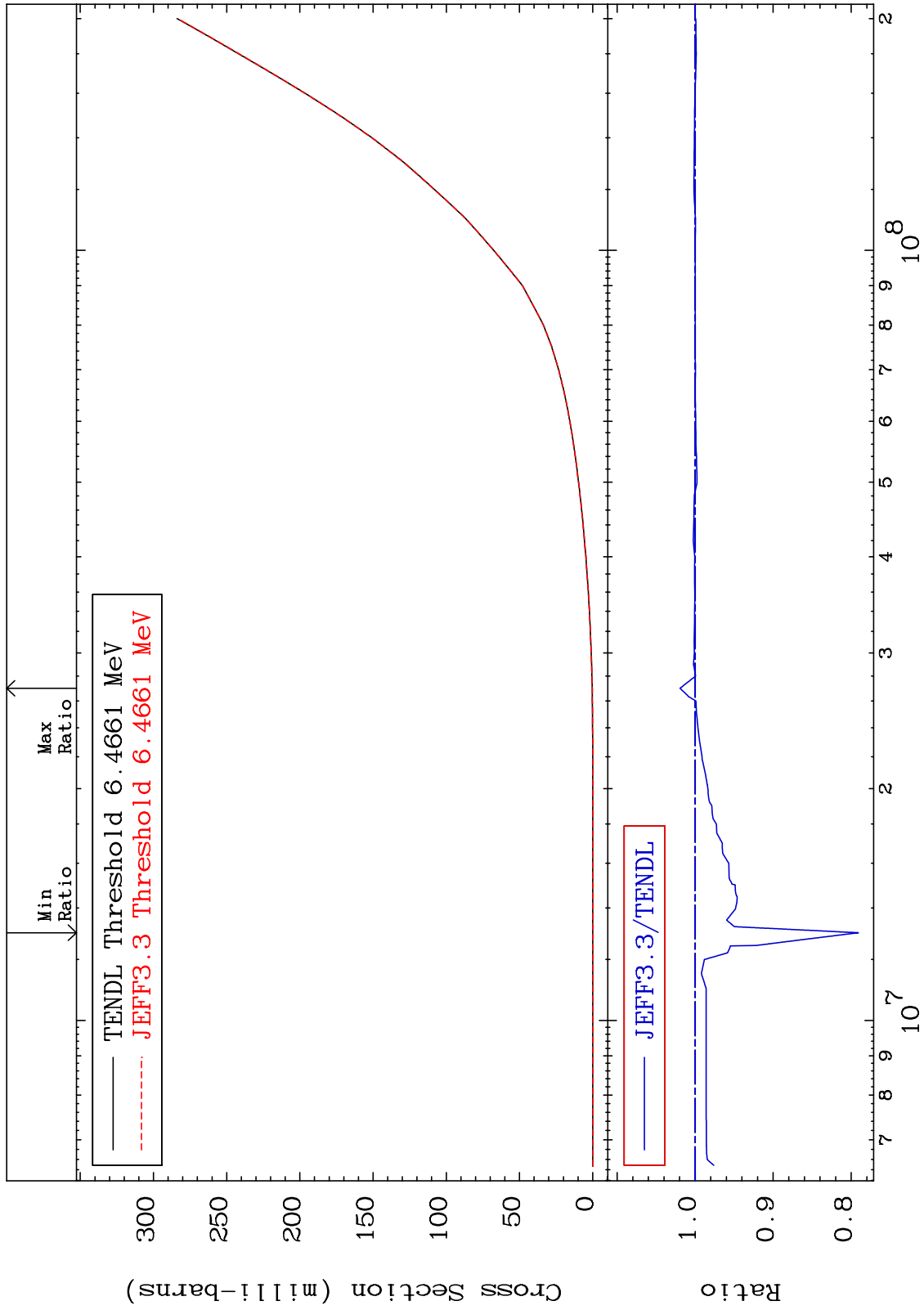
Incident Energy (eV)

57-La-137

MAT 5722

He-3 Production
Cross Section

57-La-137
-20.92 To 1.941 %



66

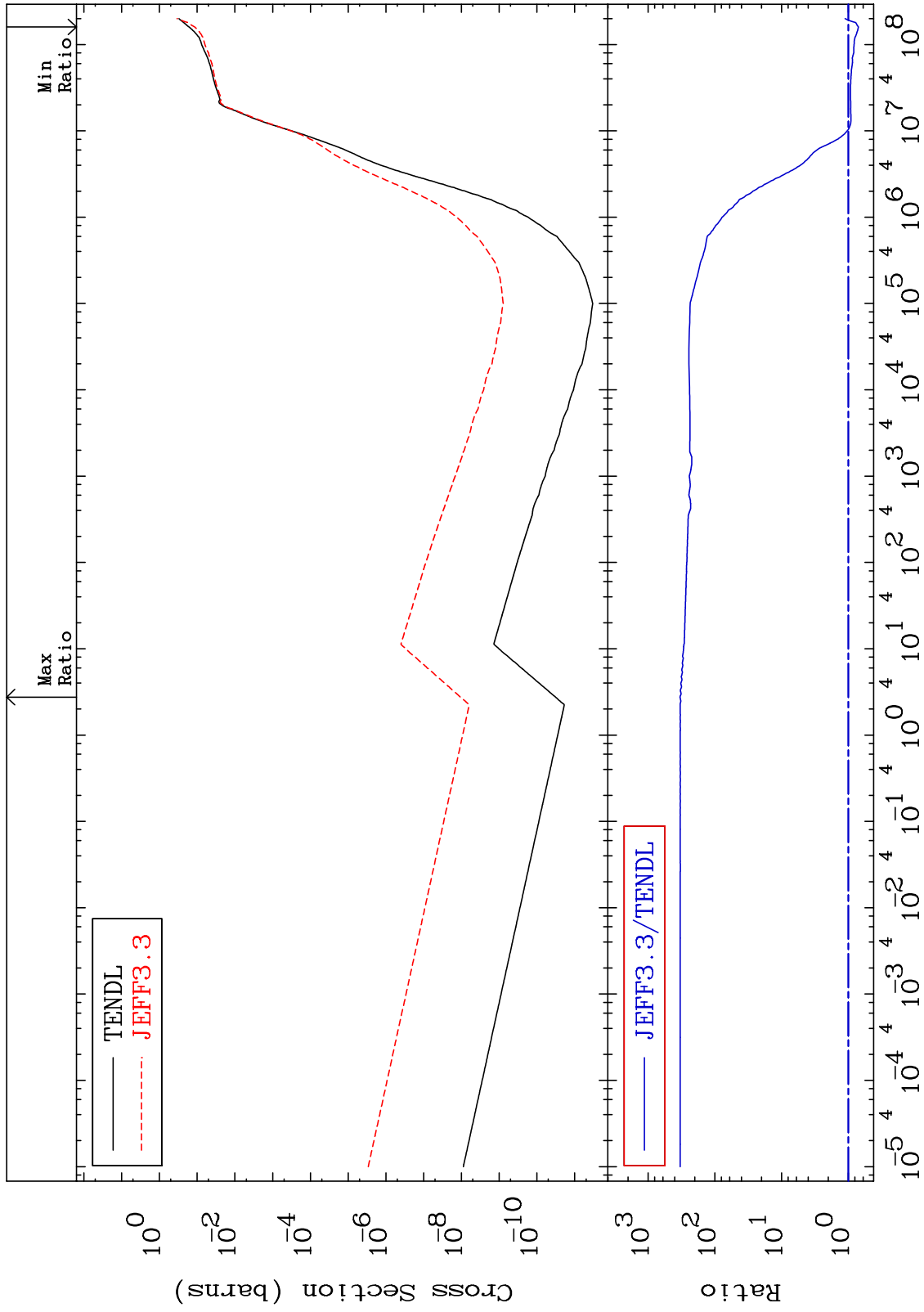
Incident Energy (eV)

57-La-137

MAT 5722

He-4 Production
Cross Section

57-La-137
-29.40 To 9999. %



67

Incident Energy (eV)

57-La-137

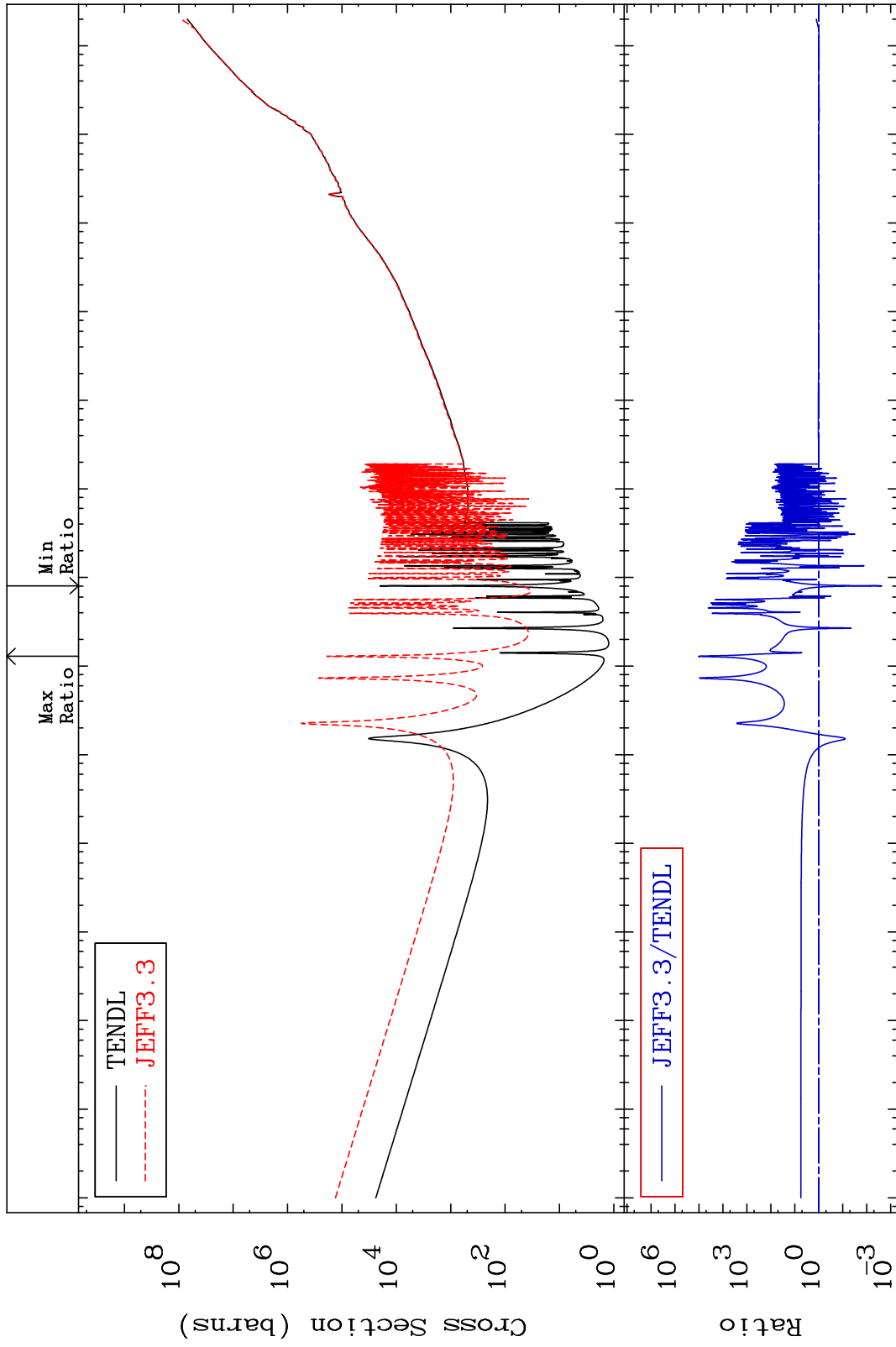
MAT 5722

Kerma total (eV-barns)

57-La-137

-99.76 To 9999. %

Cross Section

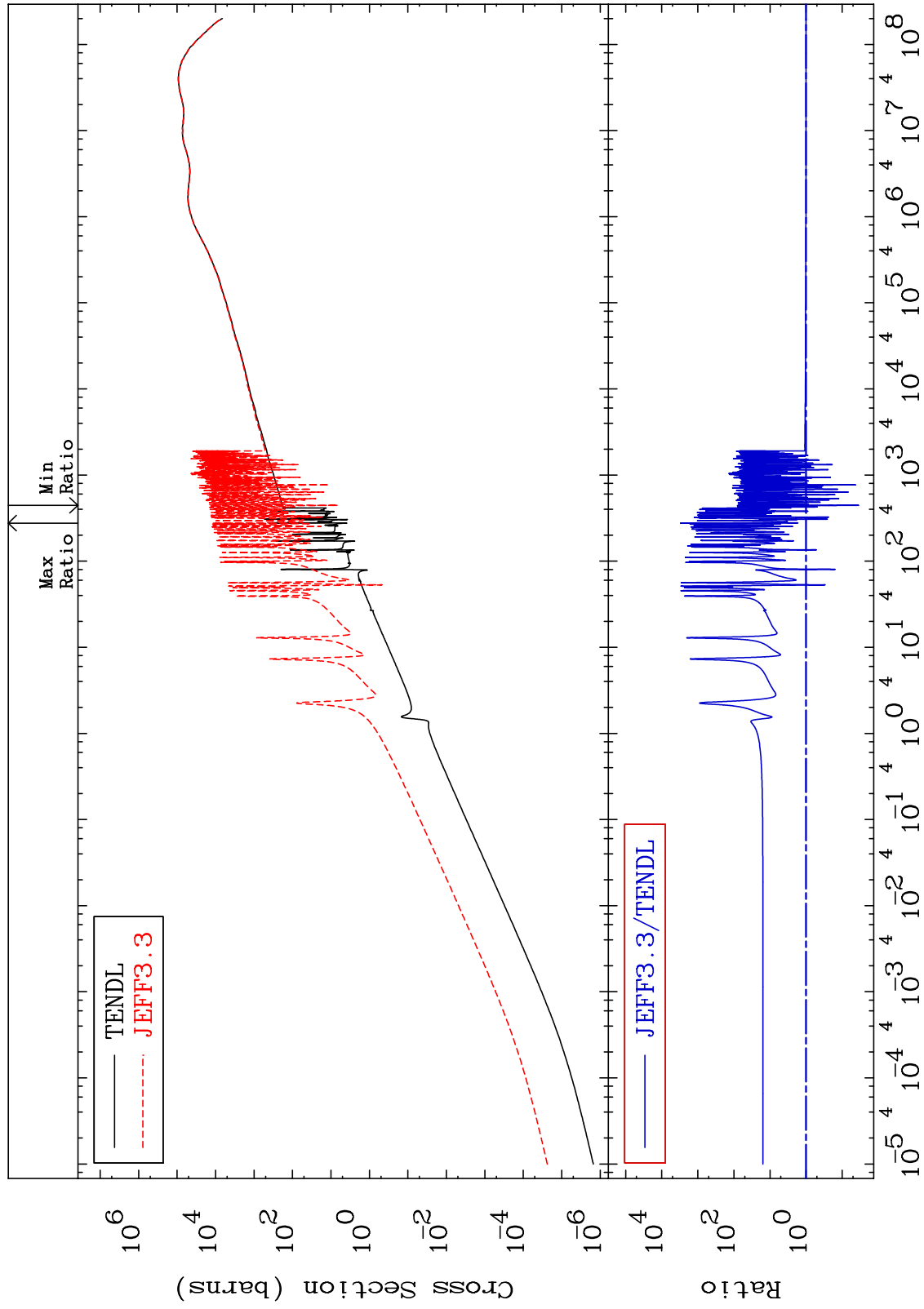


Incident Energy (eV)

MAT 5722

Kerma elastic
Cross Section

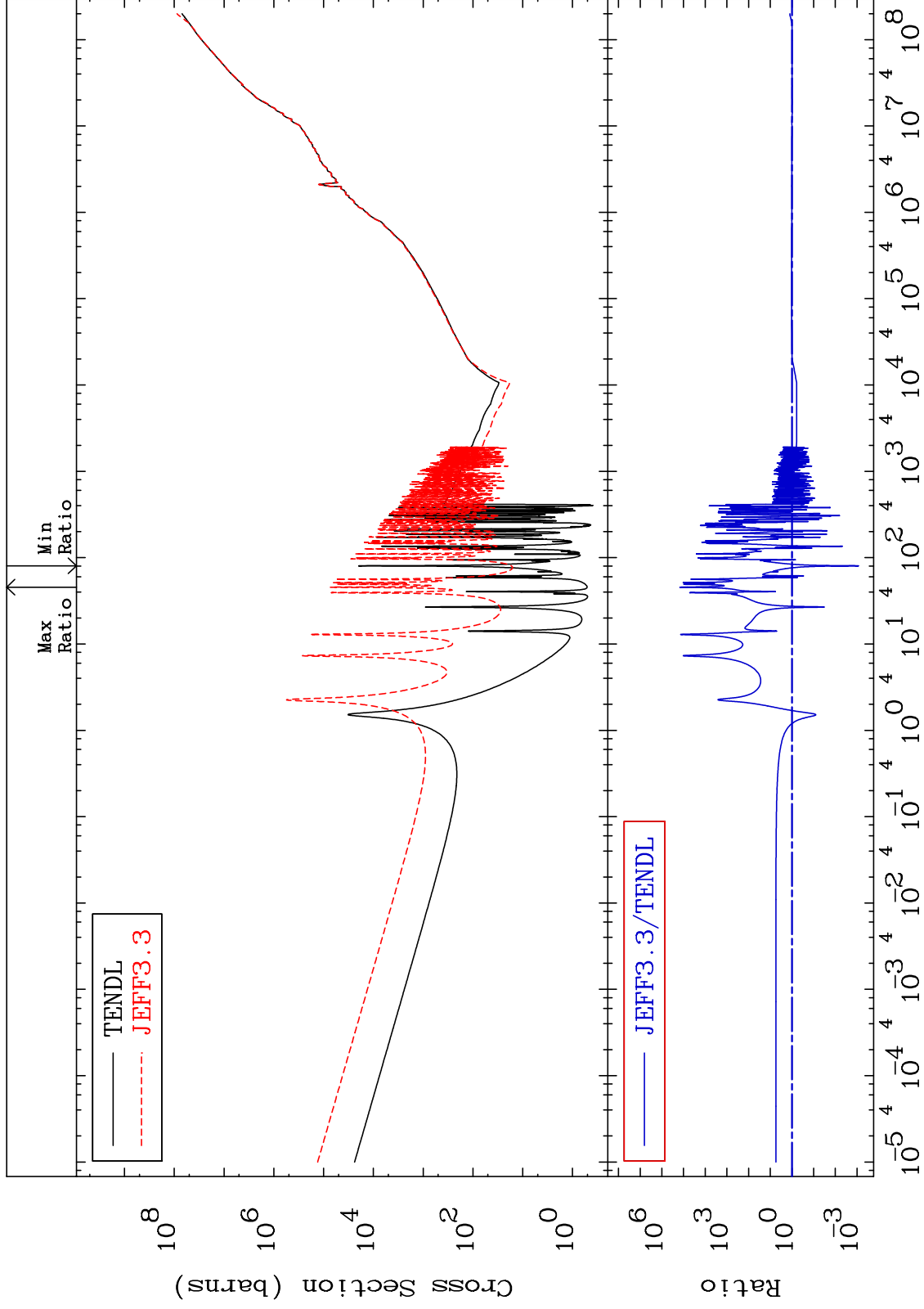
57-La-137
-96.48 To 9999. %



MAT 5722

Kerma non-elastic (all but mt2)
Cross Section

57-La-137
-99.91 To 9999. %



70

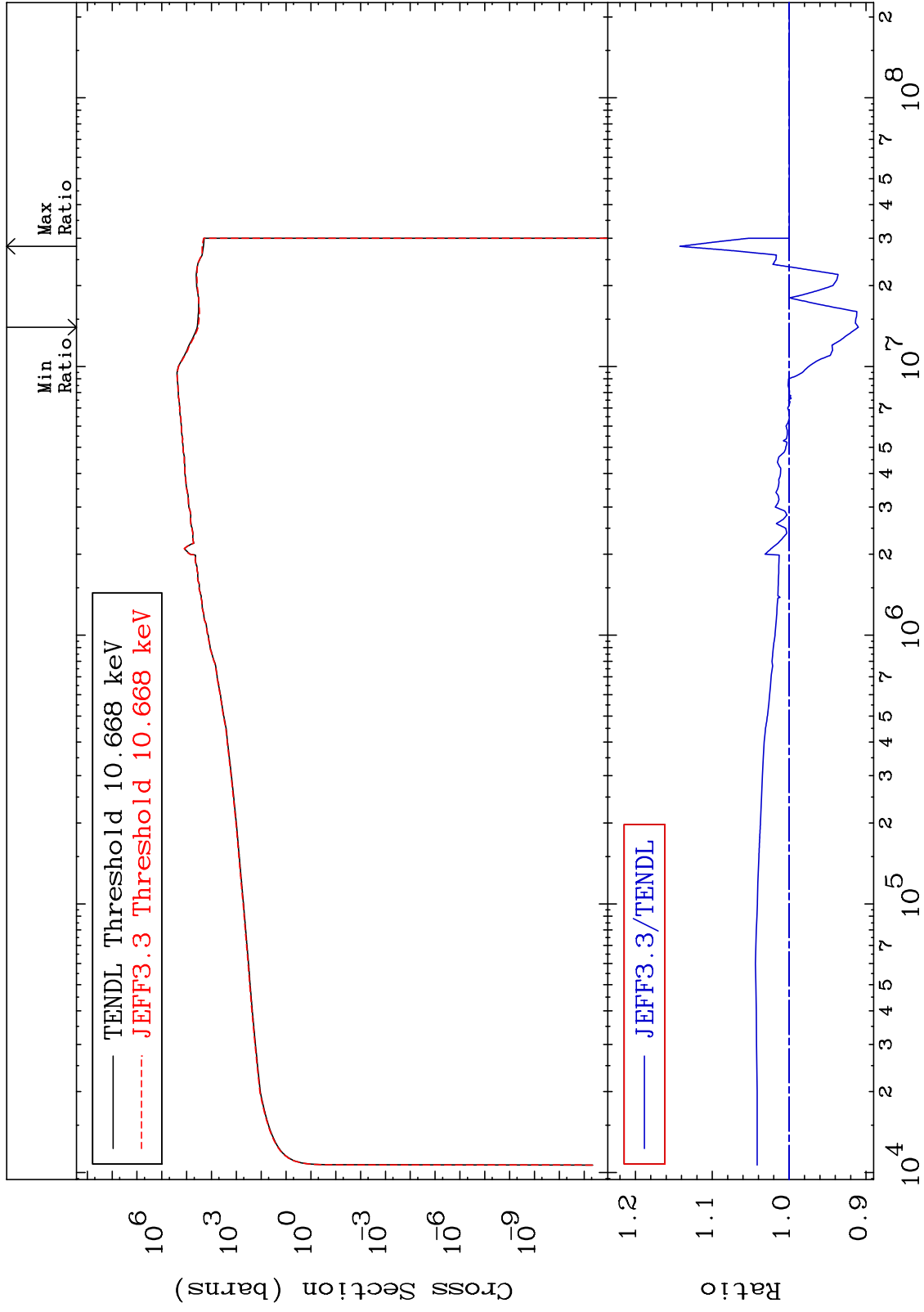
Incident Energy (eV)

57-La-137

MAT 5722

Kerma inelastic (mt51-91)
Cross Section

57-La-137
-9.005 To 14.20 %



Incident Energy (eV)

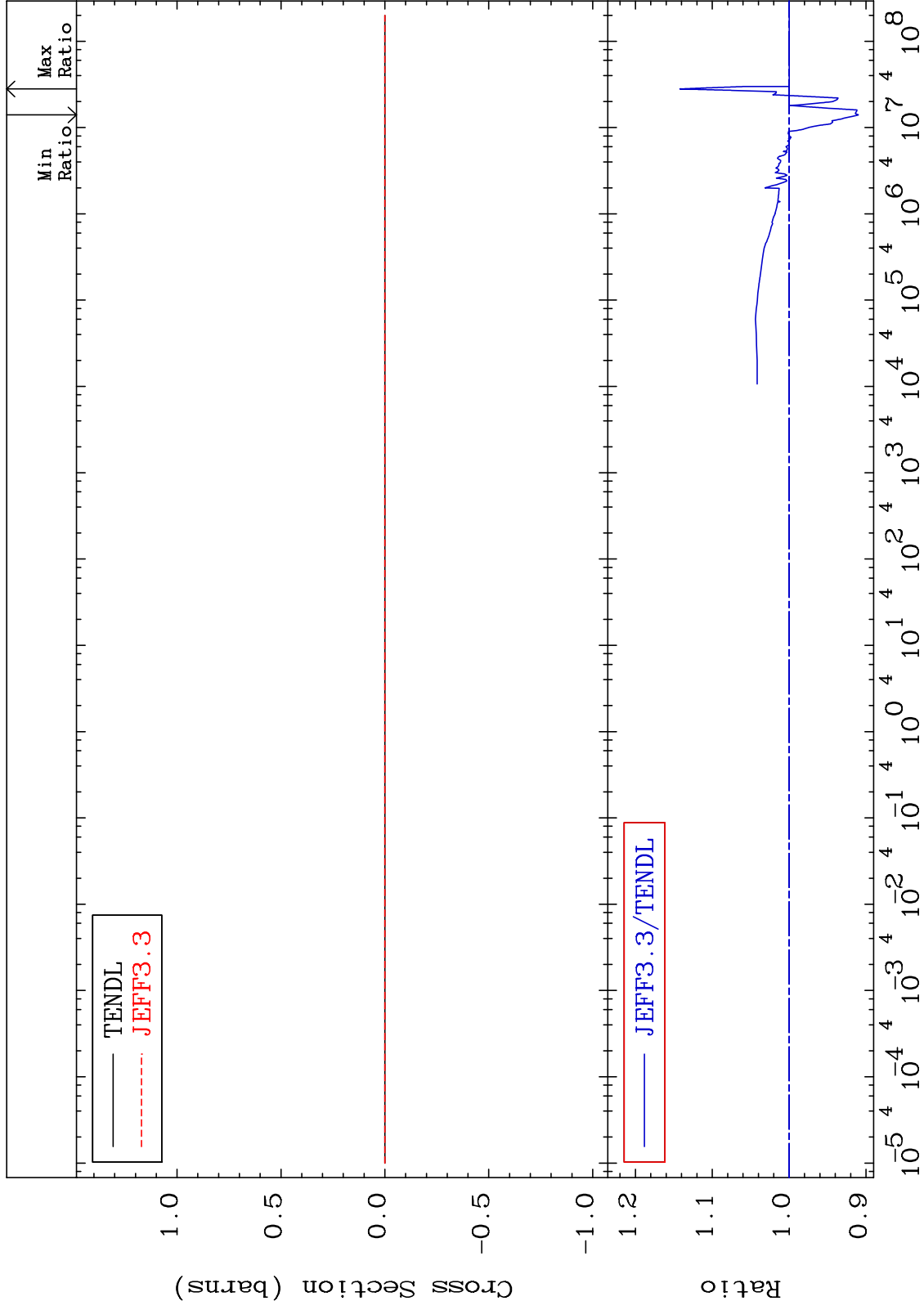
57-La-137

71

MAT 5722

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

57-La-137
-9.005 To 14.20 %



72

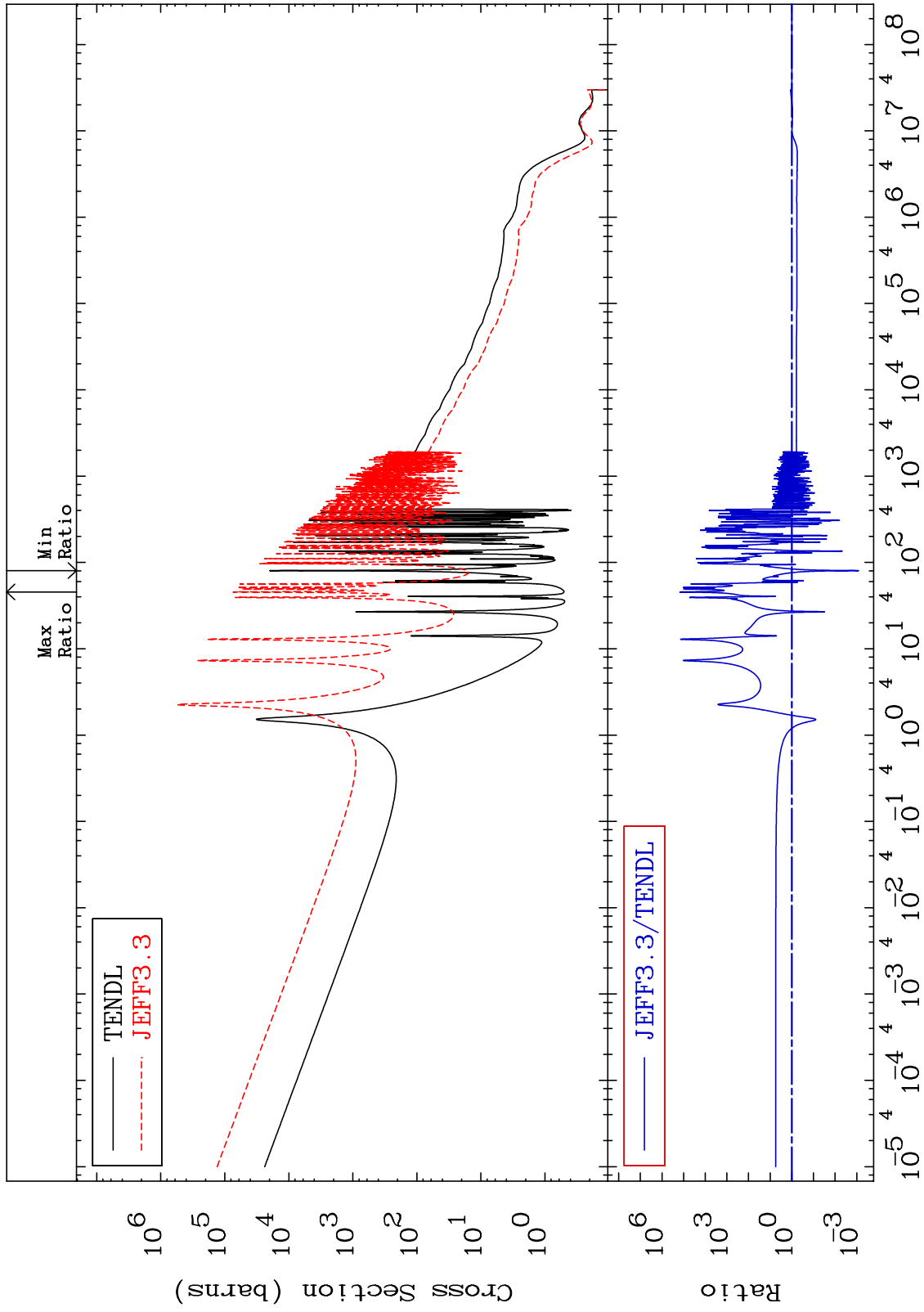
Incident Energy (eV)

57-La-137

MAT 5722

Kerma capture (mt102)
Cross Section

57-La-137
-99.92 To 9999. %



73

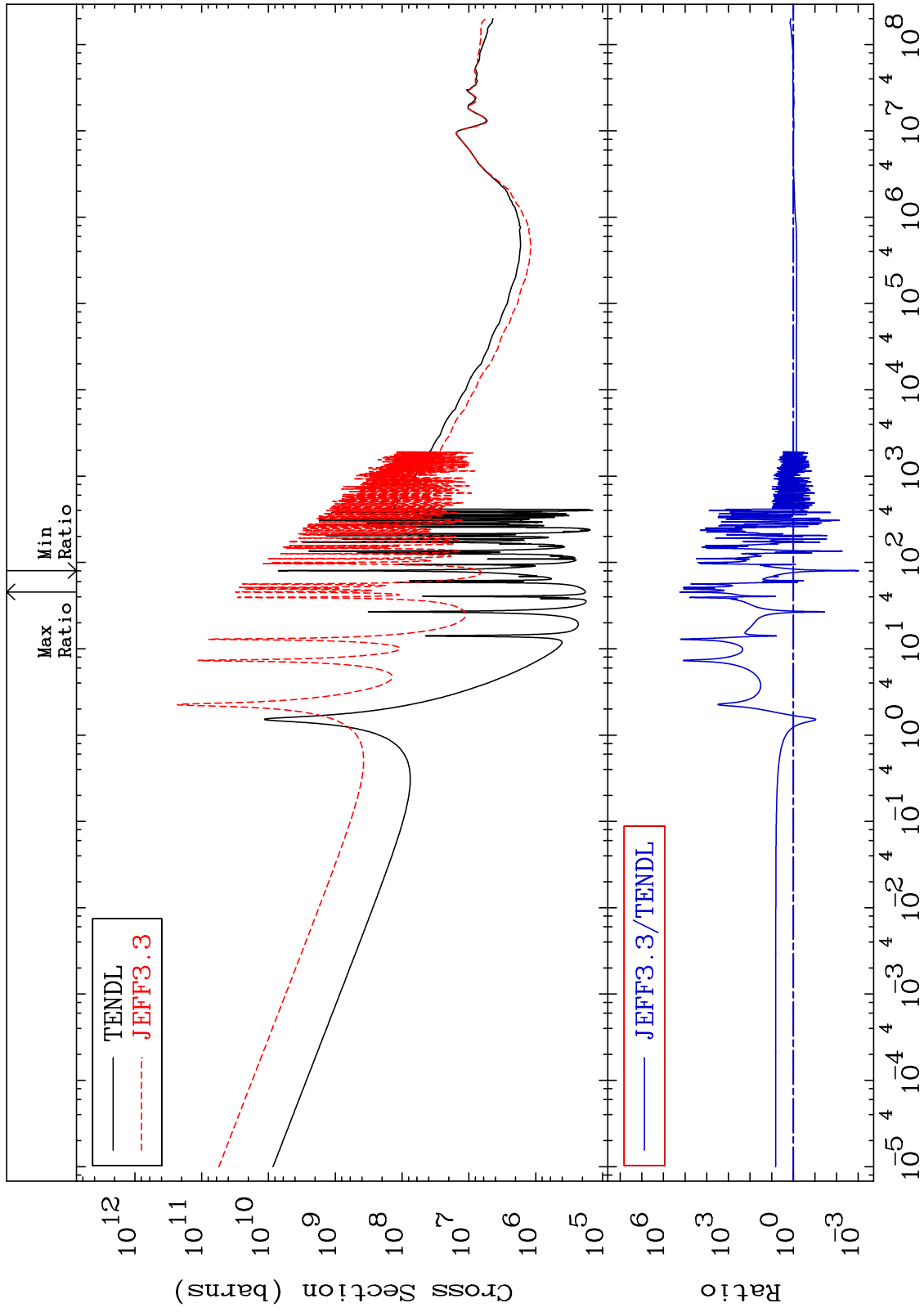
Incident Energy (eV)

57-La-137

MAT 5722

Total photon (eV-barns)
Cross Section

57-La-137
-99.90 To 9999. %

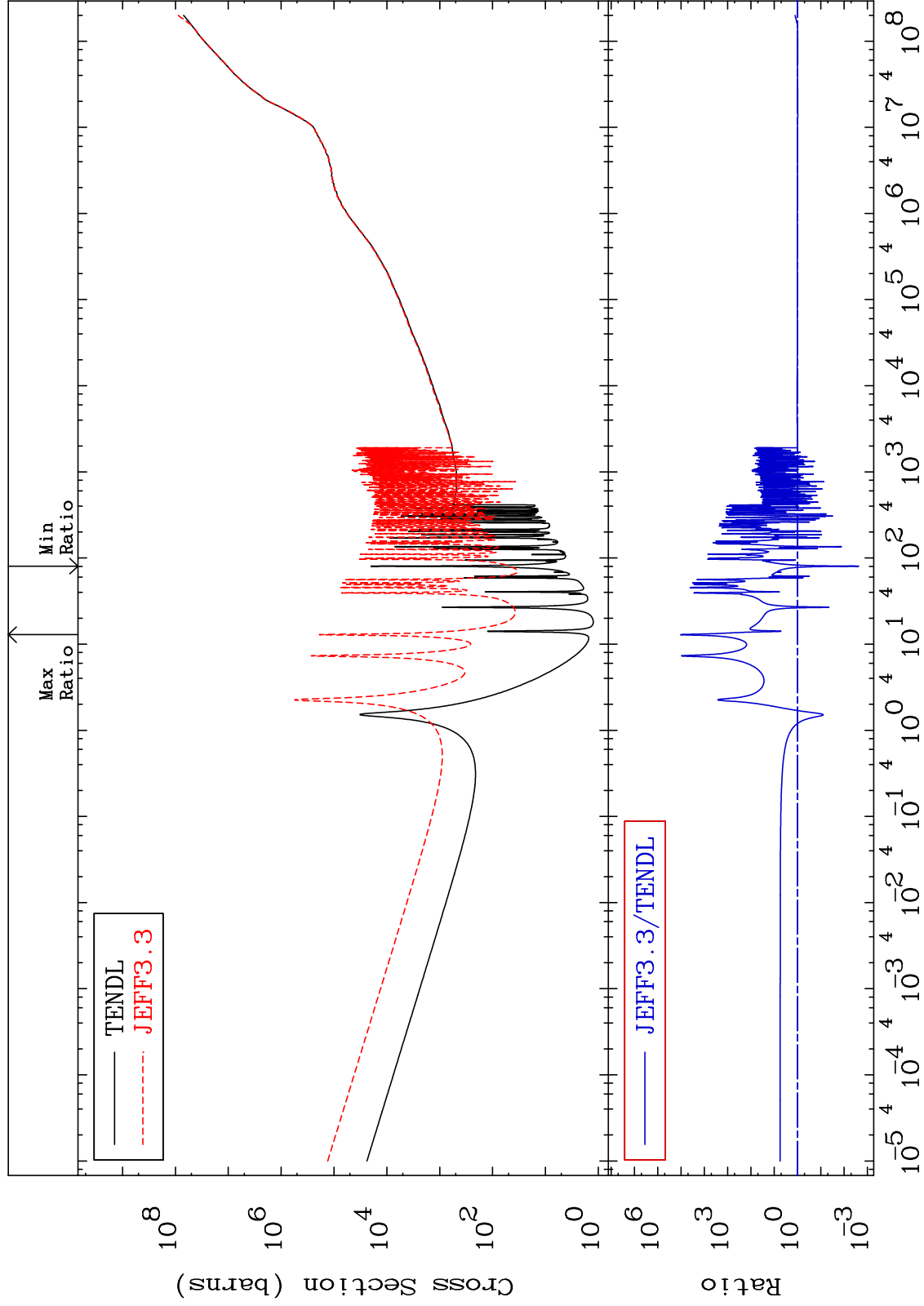


MAT 5722

Total kinematic kerma (high limit)

57-La-137

-99.76 To 9999. %



75

Incident Energy (eV)

57-La-137

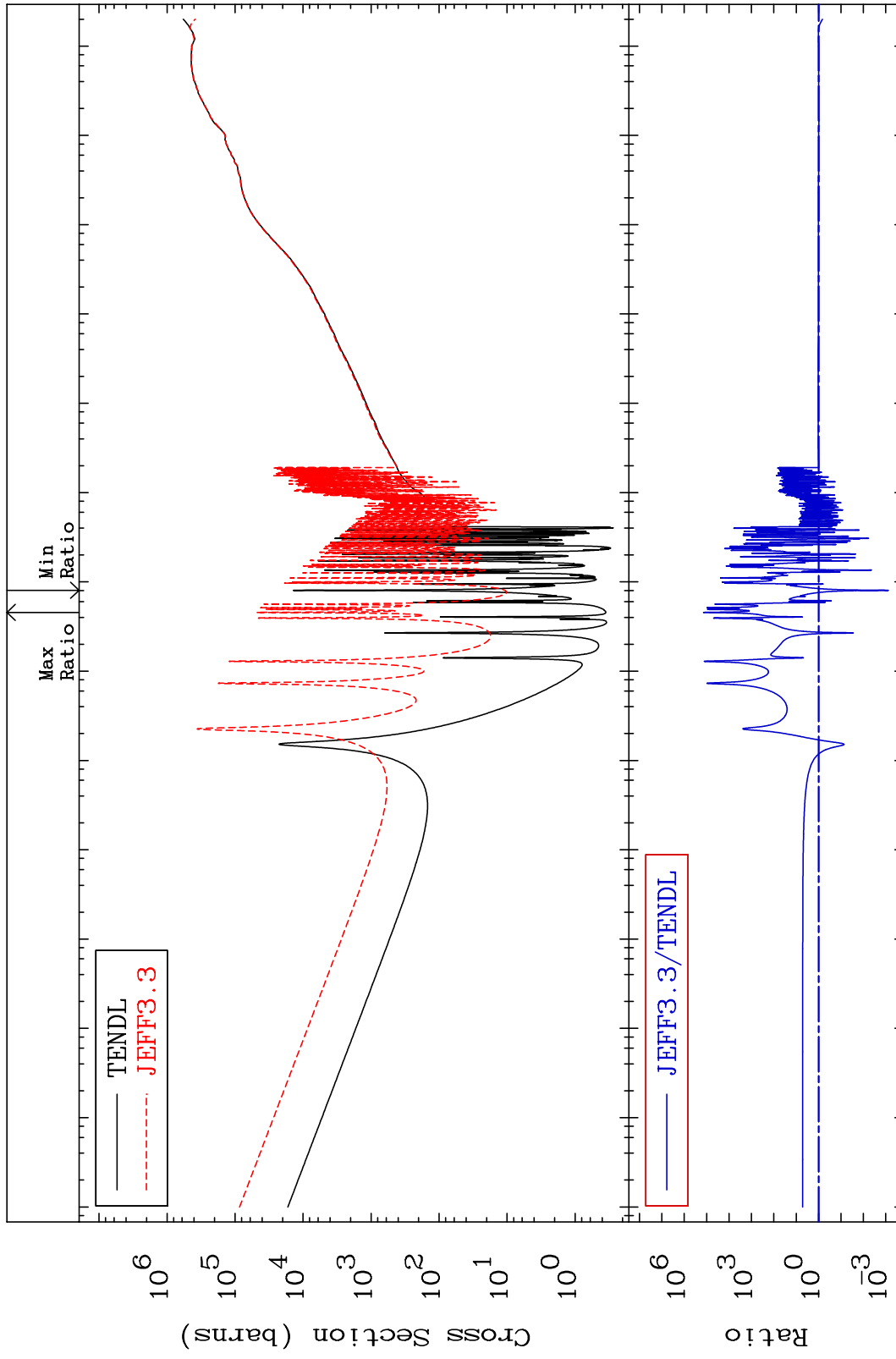
MAT 5722

Dpa total (eV-barns)

57-La-137

-99.92 To 9999. %

Cross Section



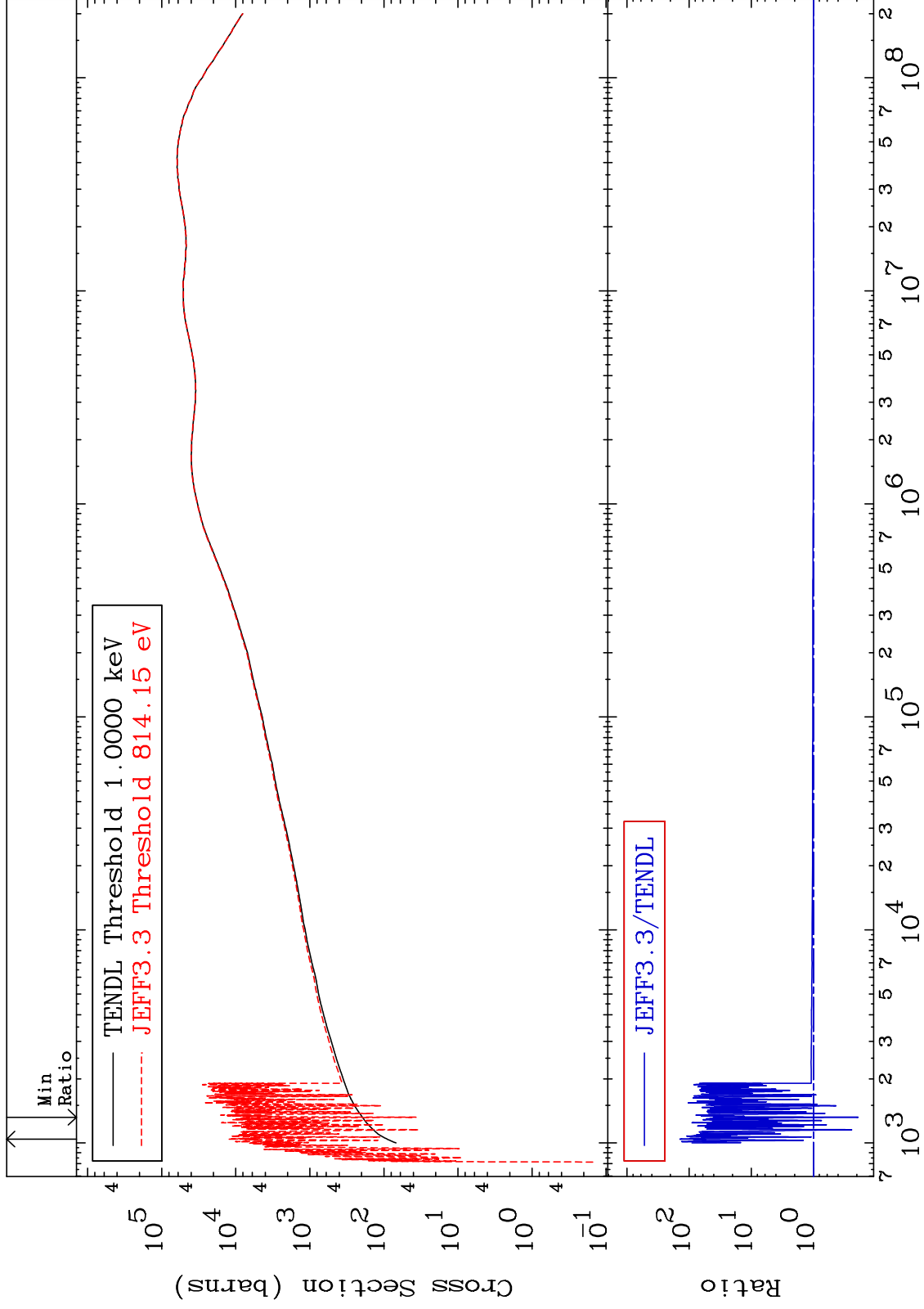
Incident Energy (eV)

57-La-137

MAT 5722

Dpa elastic (mt2)
Cross Section

57-La-137
-81.17 To 9999. %



77

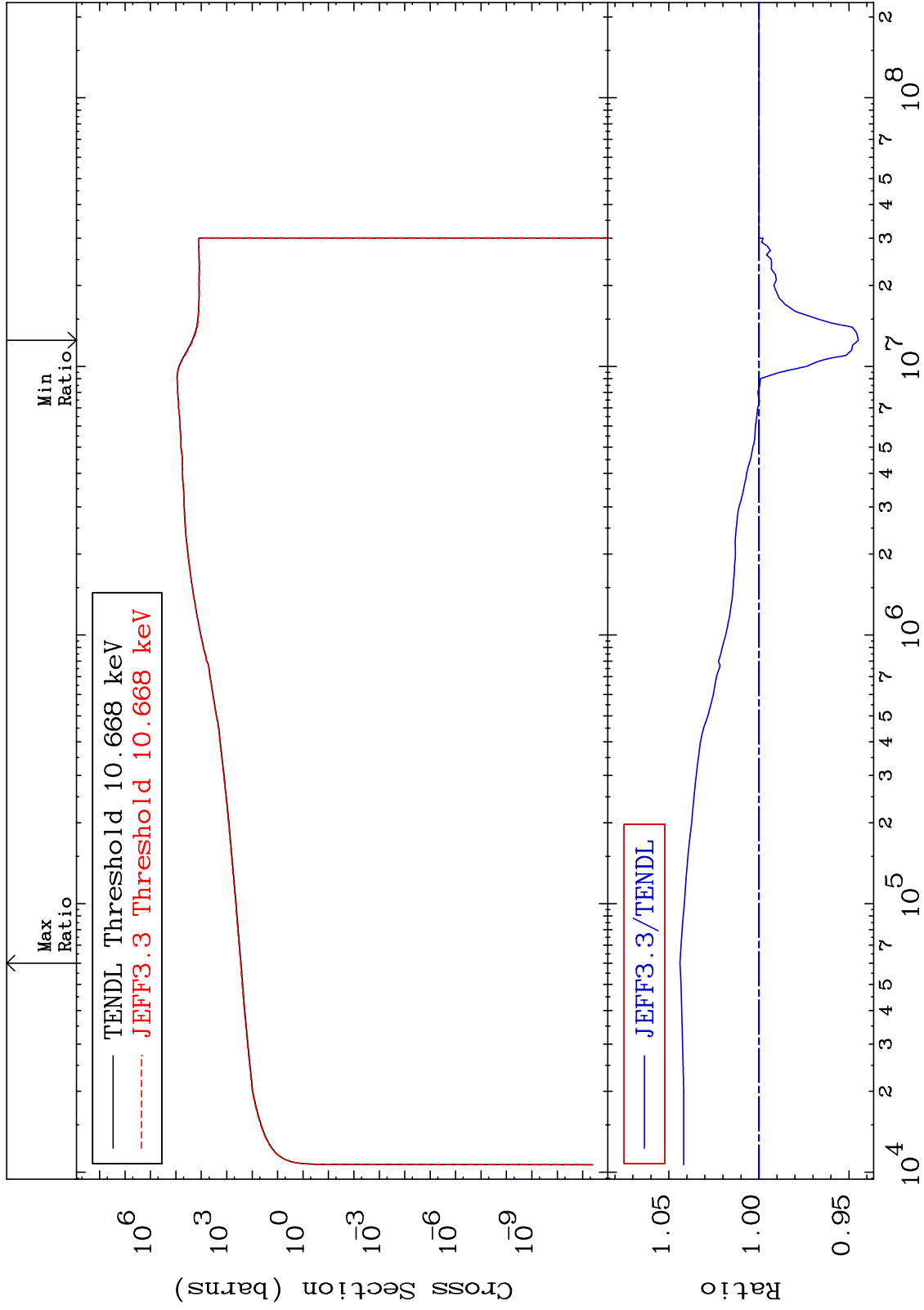
Incident Energy (eV)

57-La-137

MAT 5722

Dpa inelastic (mt51-91)
Cross Section

57-La-137
-5.526 To 4.382 %



57-La-137

Incident Energy (eV)

78

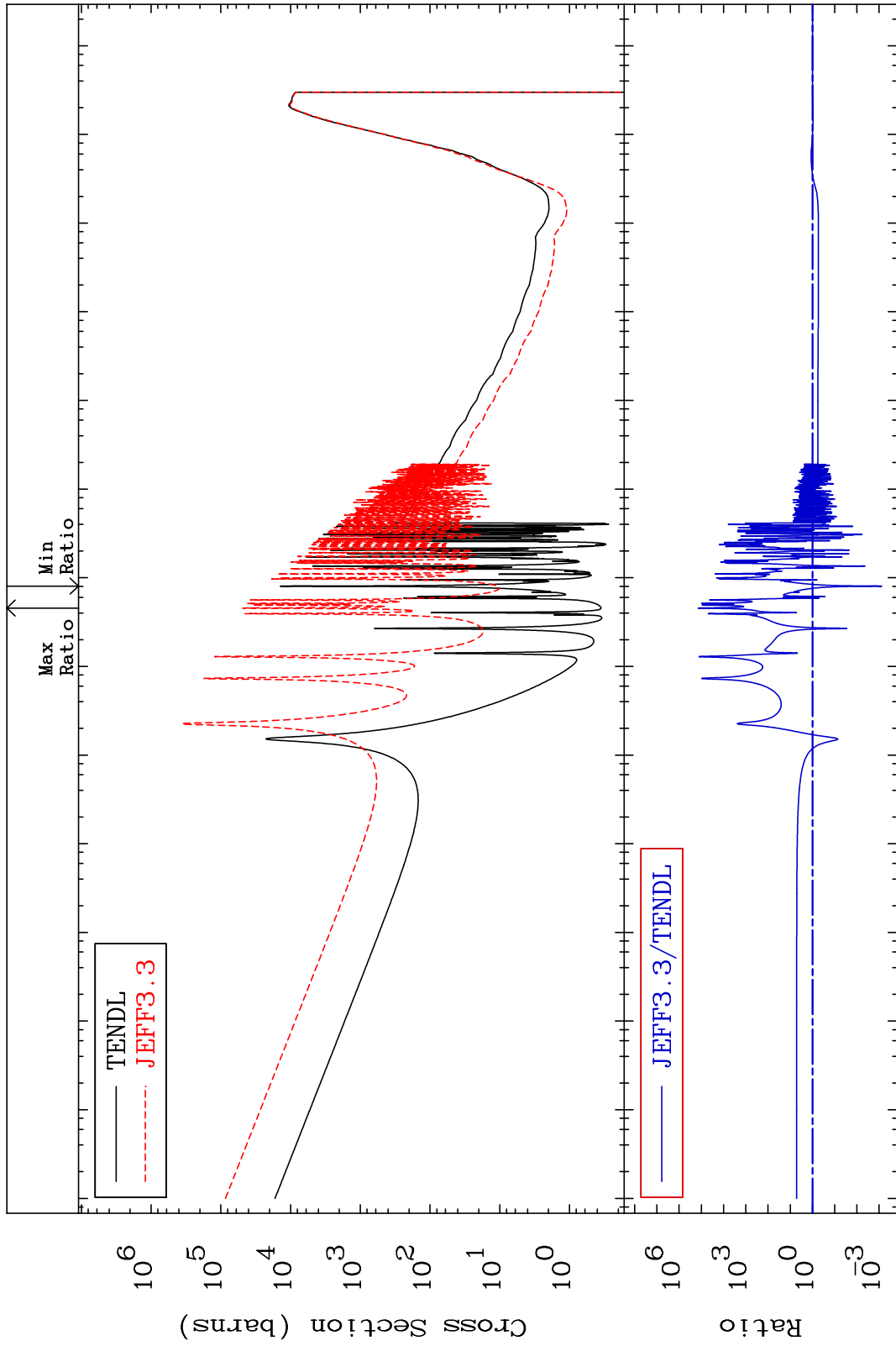
MAT 5722

Dpa disappearance (mt102 -120)

57-La-137

-99.92 To 9999. %

Cross Section



79

Incident Energy (eV)

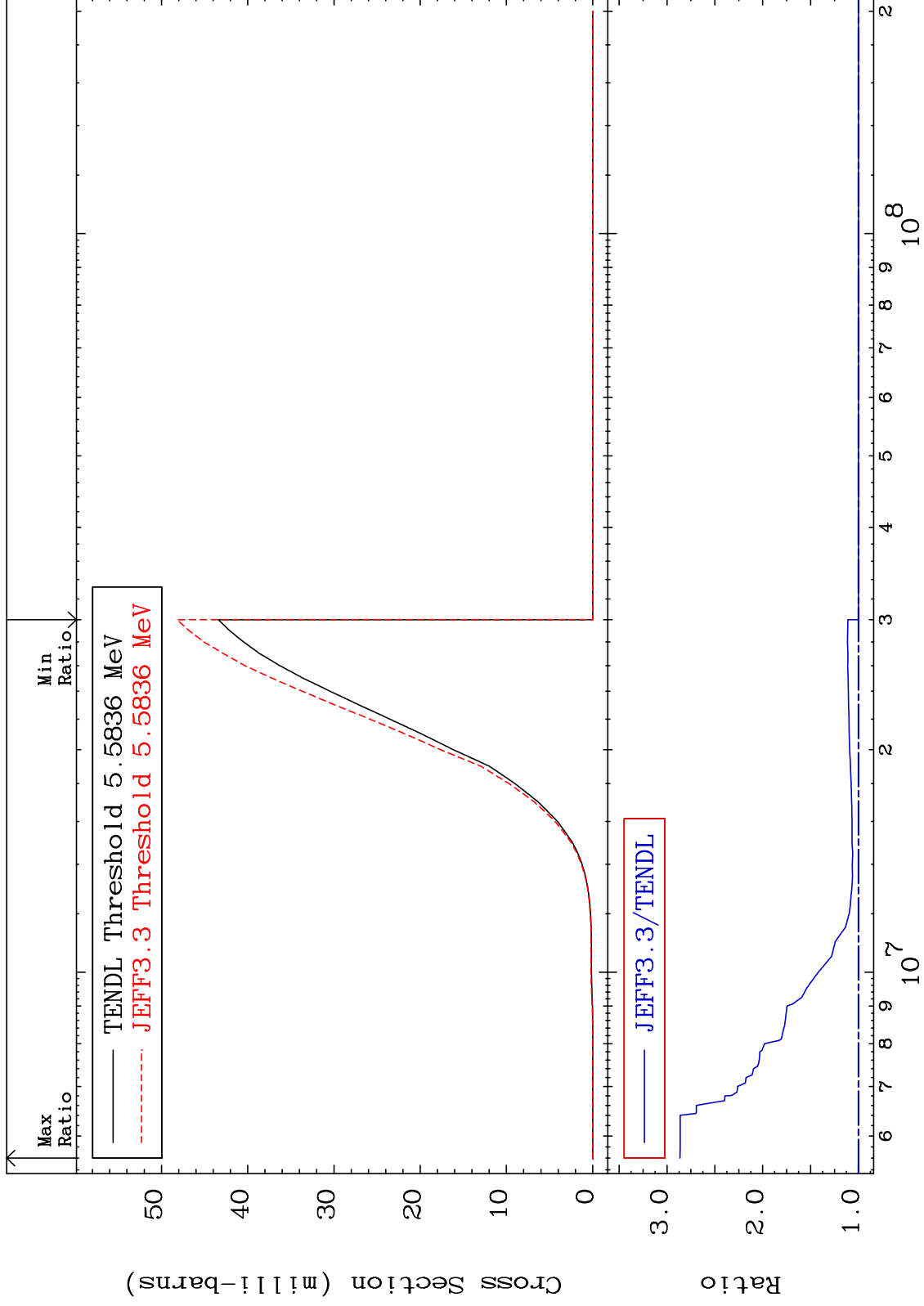
57-La-137

MAT 5722

(n, n') p:56-Ba-136g

57-La-137

Radionuclide Production Cross Section 0.000 To 186.4 %



80

Incident Energy (eV)

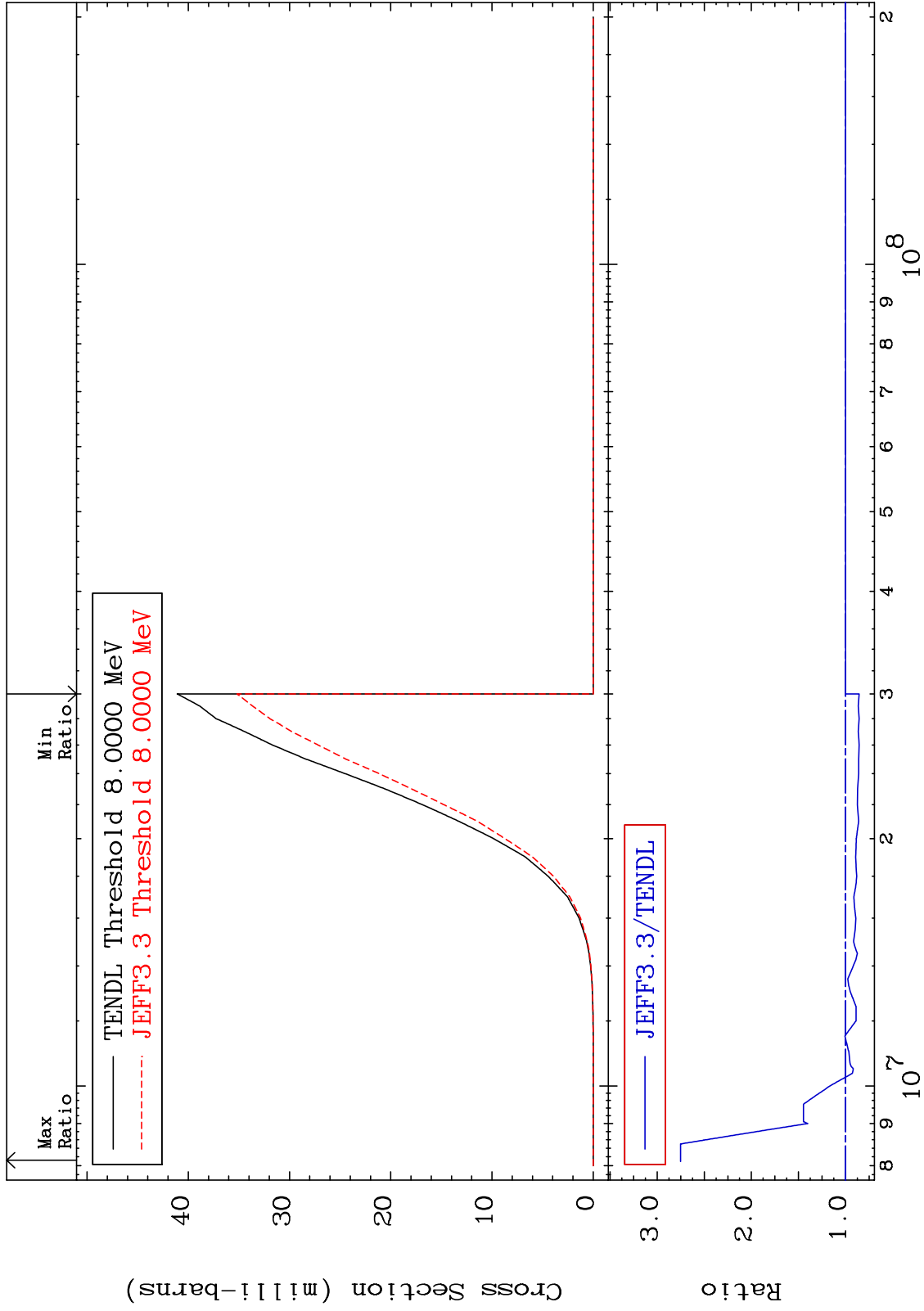
57-La-137

MAT 5722

(n, n') p:56-Ba-136m5

57-La-137

Radionuclide Production Cross Section -14.37 To 175.1 %



81

Incident Energy (eV)

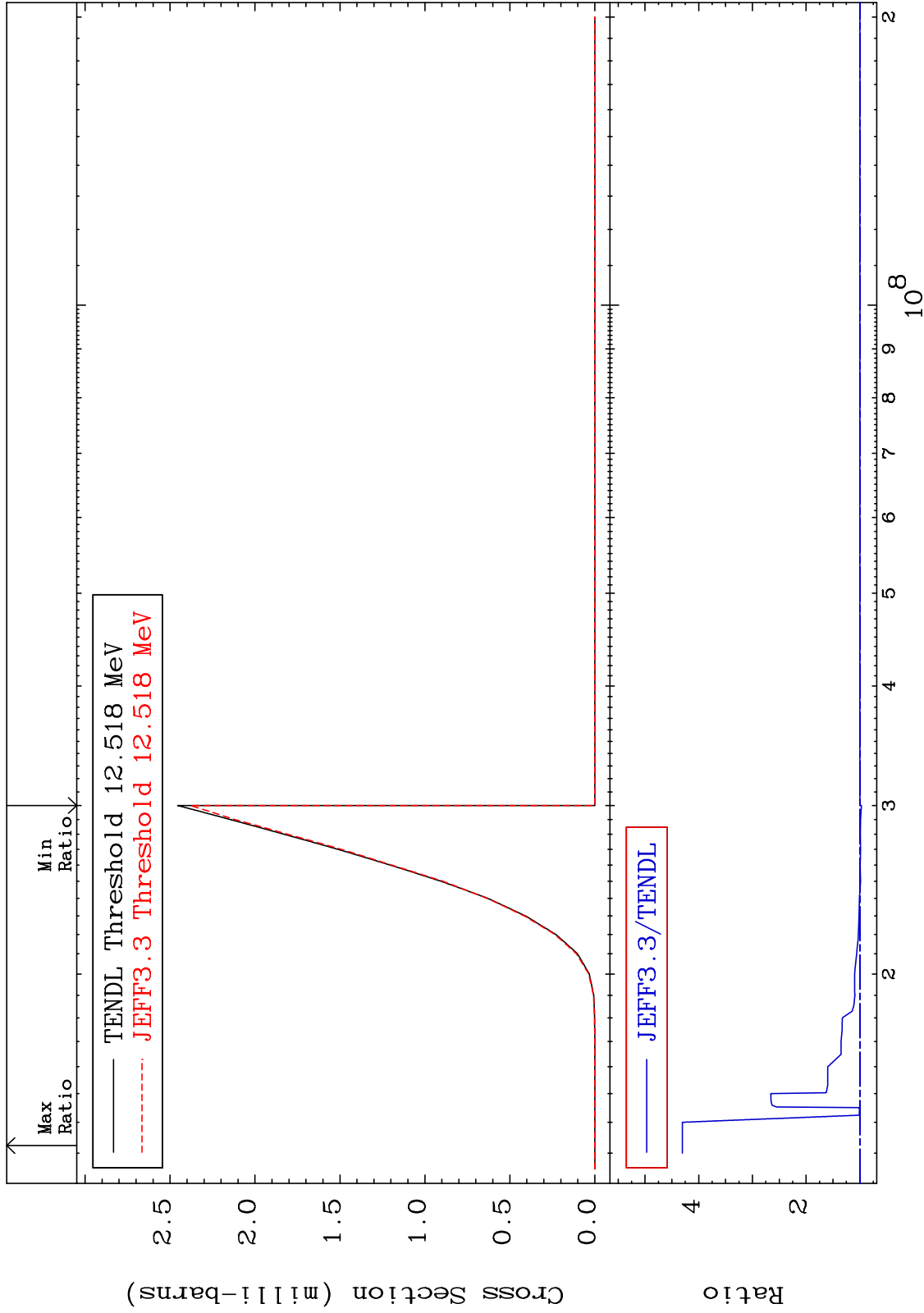
57-La-137

MAT 5722

(n, n') d:56-Ba-135g

57-La-137

Radionuclide Production Cross Section -3.084 To 330.3 %

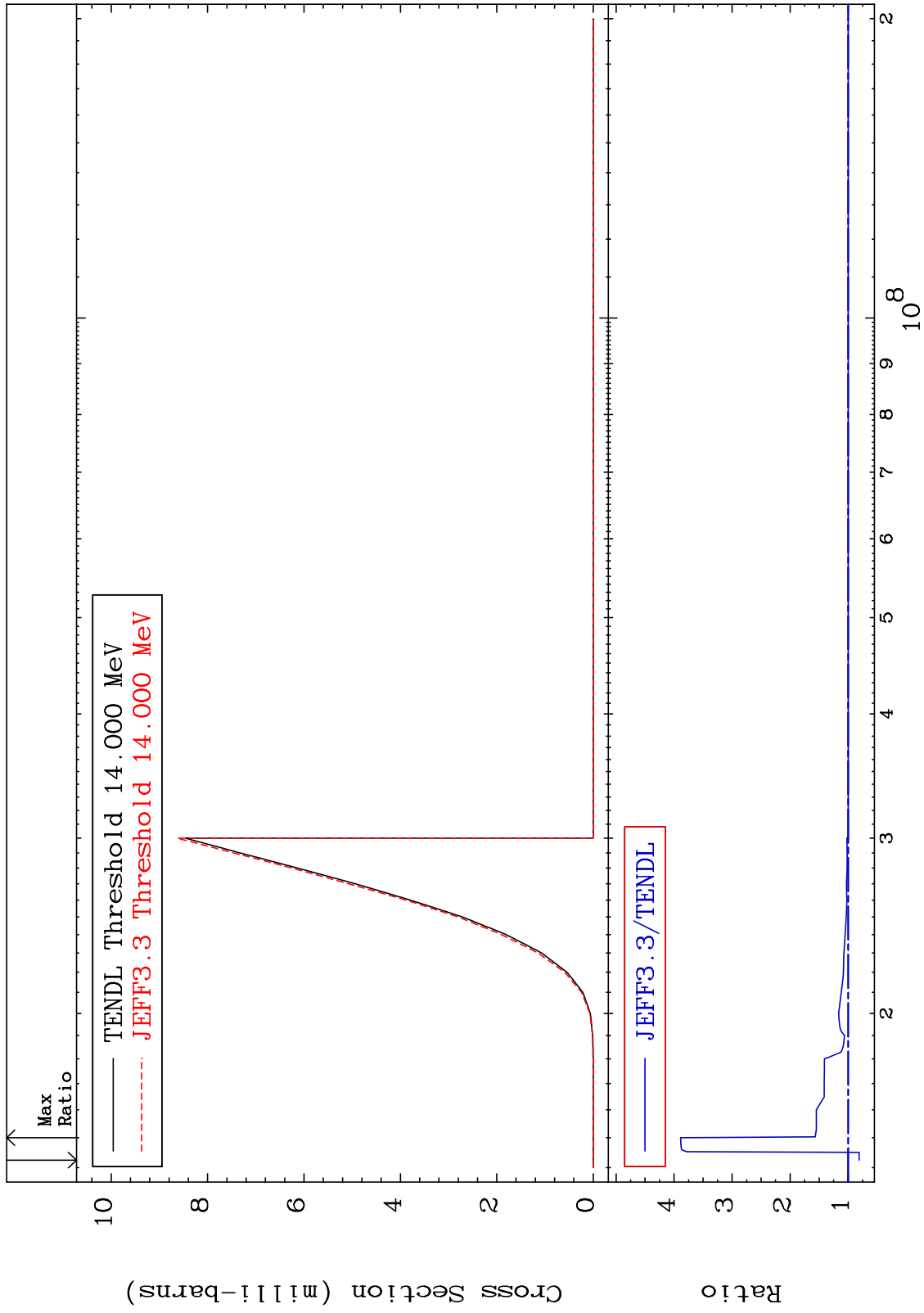


MAT 5722

(n, n') d:56-Ba-135m2

57-La-137

Radionuclide Production Cross Section -19.00 To 288.7 %

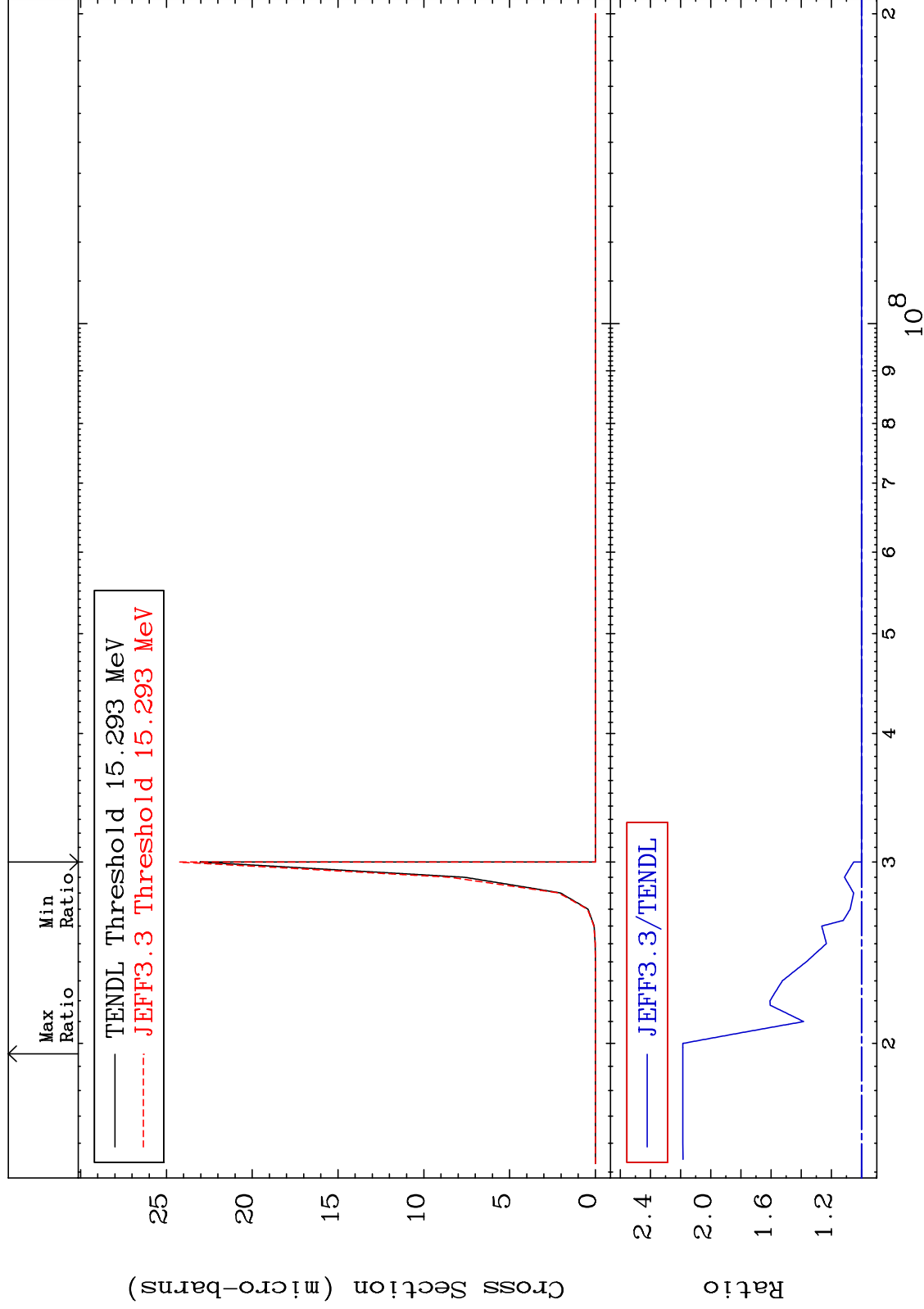


MAT 5722

(n, n') He-3:55-Cs-134g

57-La-137

Radionuclide Production Cross Section 0.000 To 118.5 %

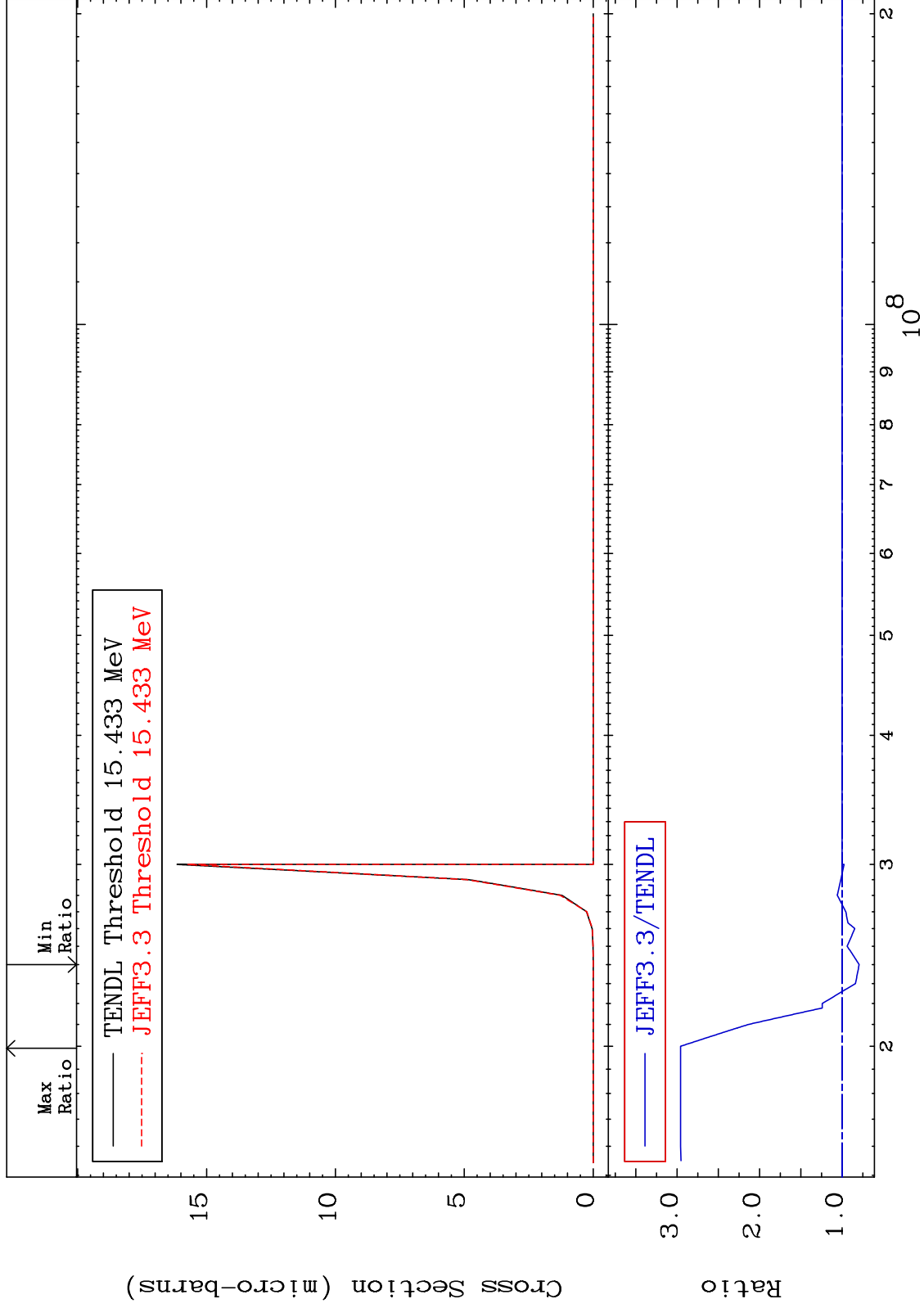


MAT 5722

(n, n') He-3:55-Cs-134m3

57-La-137

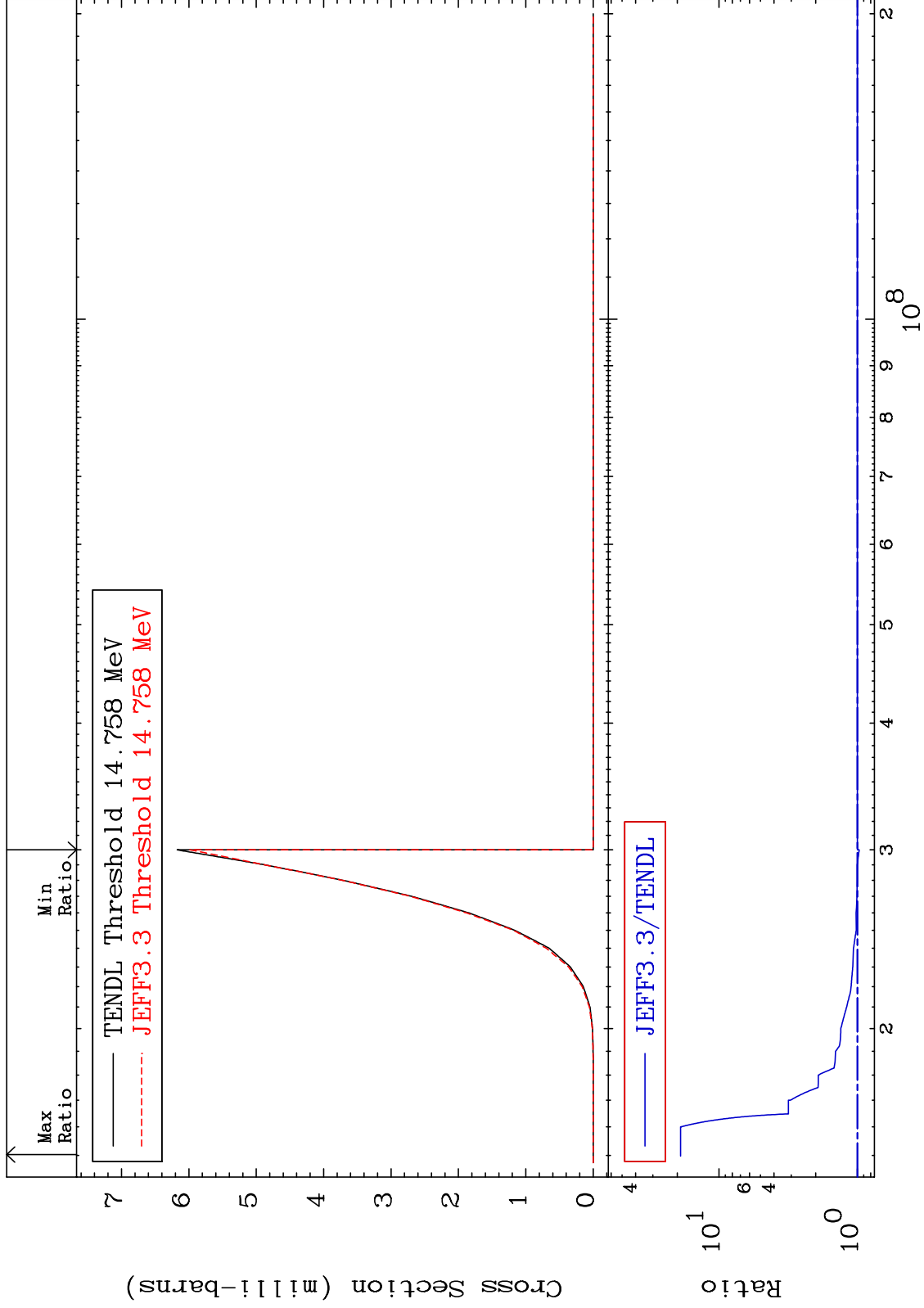
Radionuclide Production Cross Section -20.66 To 195.8 %



85

57-La-137

57-La-137

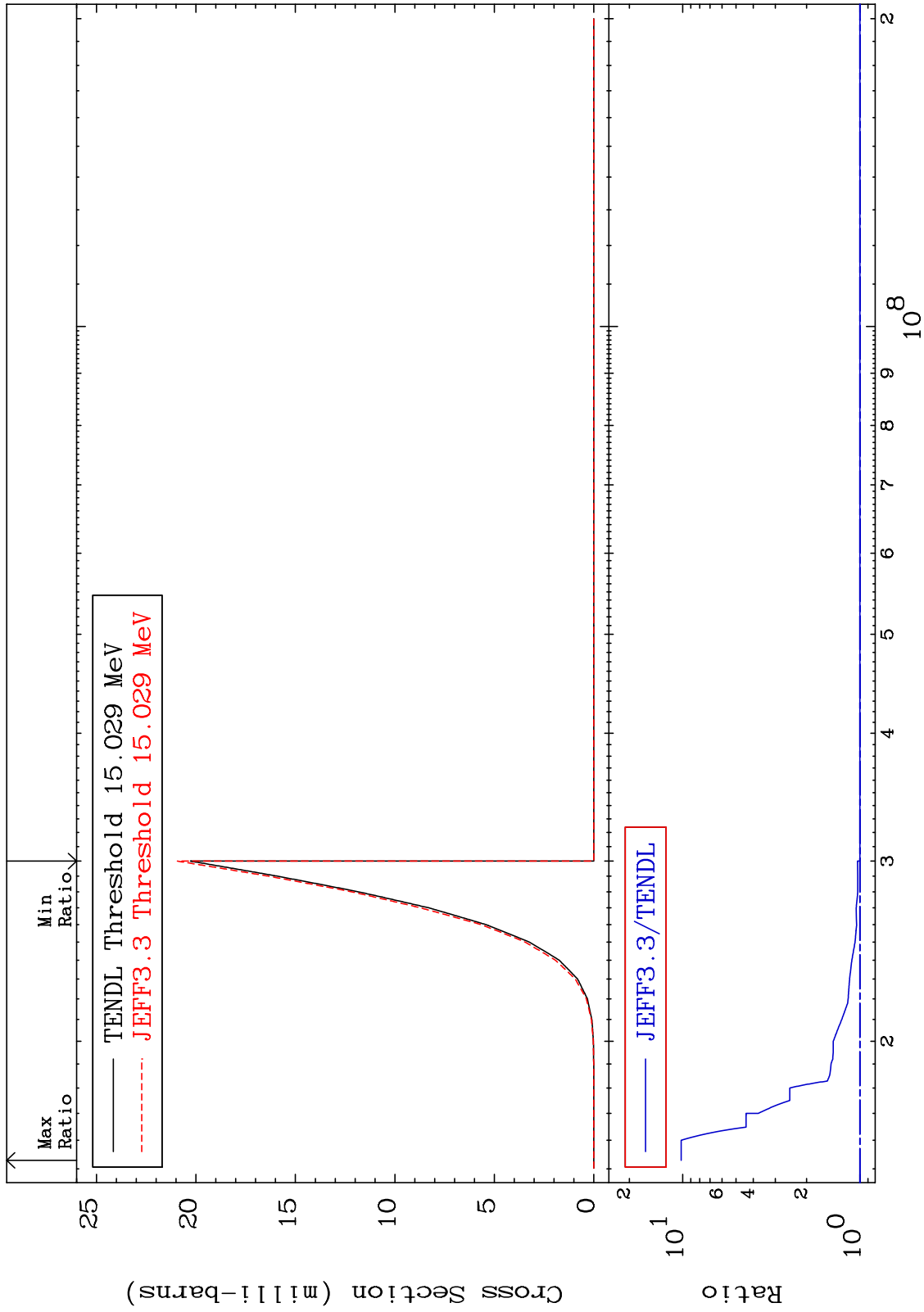


MAT 5722

(n,2n) p:56-Ba-135m2

57-La-137

Radionuclide Production Cross Section 0.000 To 918.5 %



87

Incident Energy (eV)

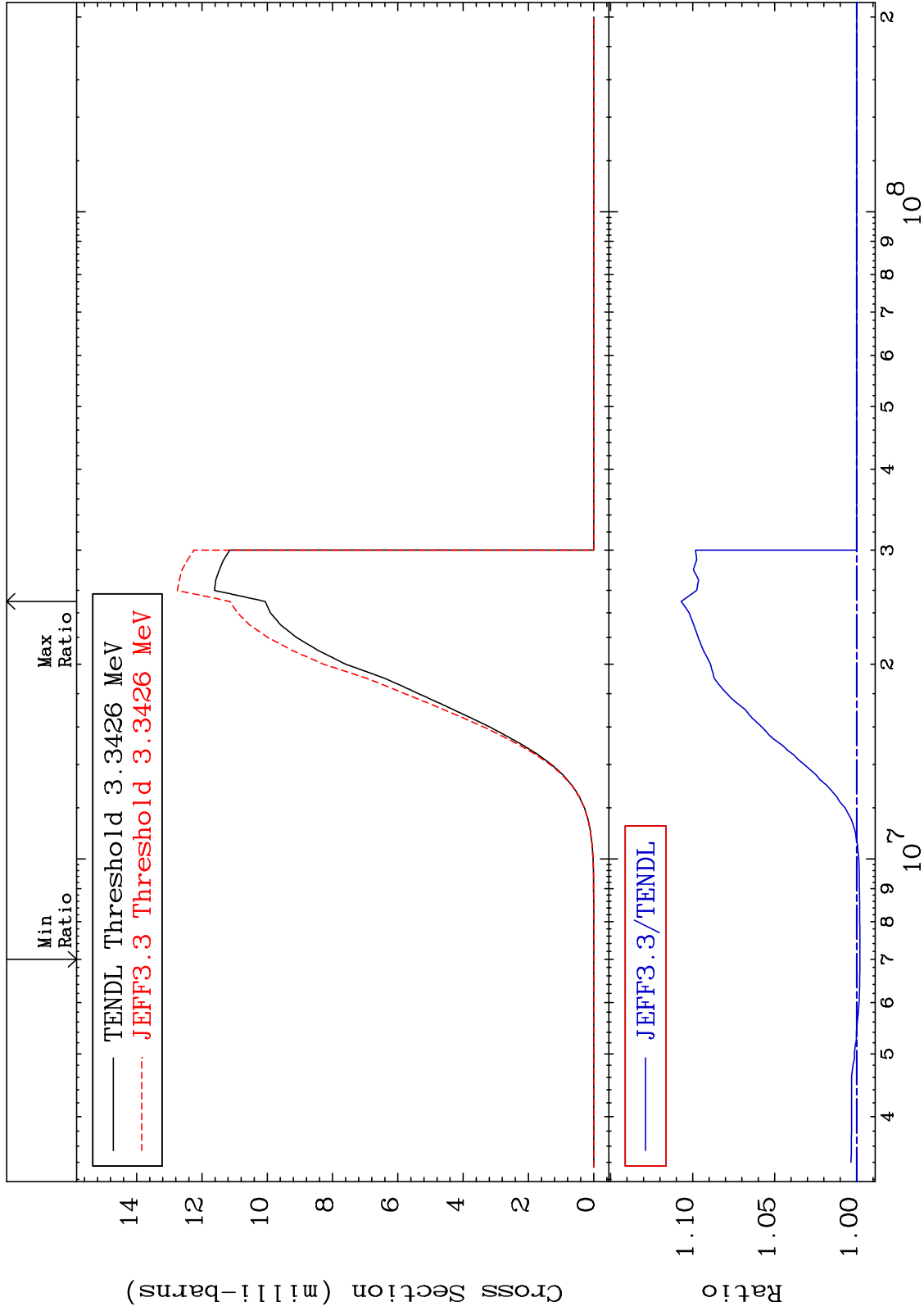
57-La-137

MAT 5722

(n, d):56-Ba-136g

57-La-137

Radionuclide Production Cross Section -0.198 To 10.70 %



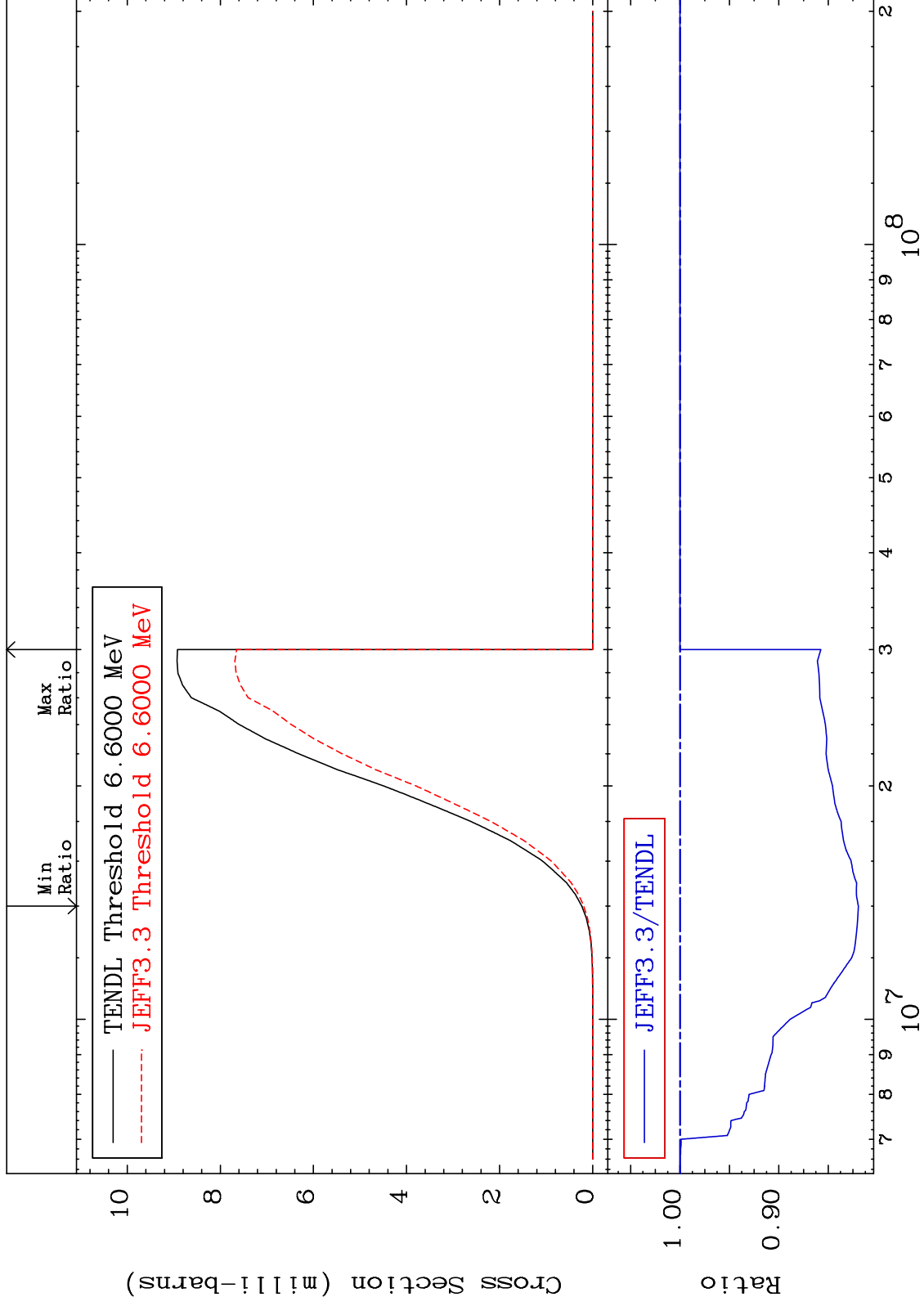
MAT 5722

(n, d) : 56-Ba-136m5

57-La-137

Radionuclide Production Cross Section

-18.06 To 0.000 %



90

Incident Energy (eV)

57-La-137

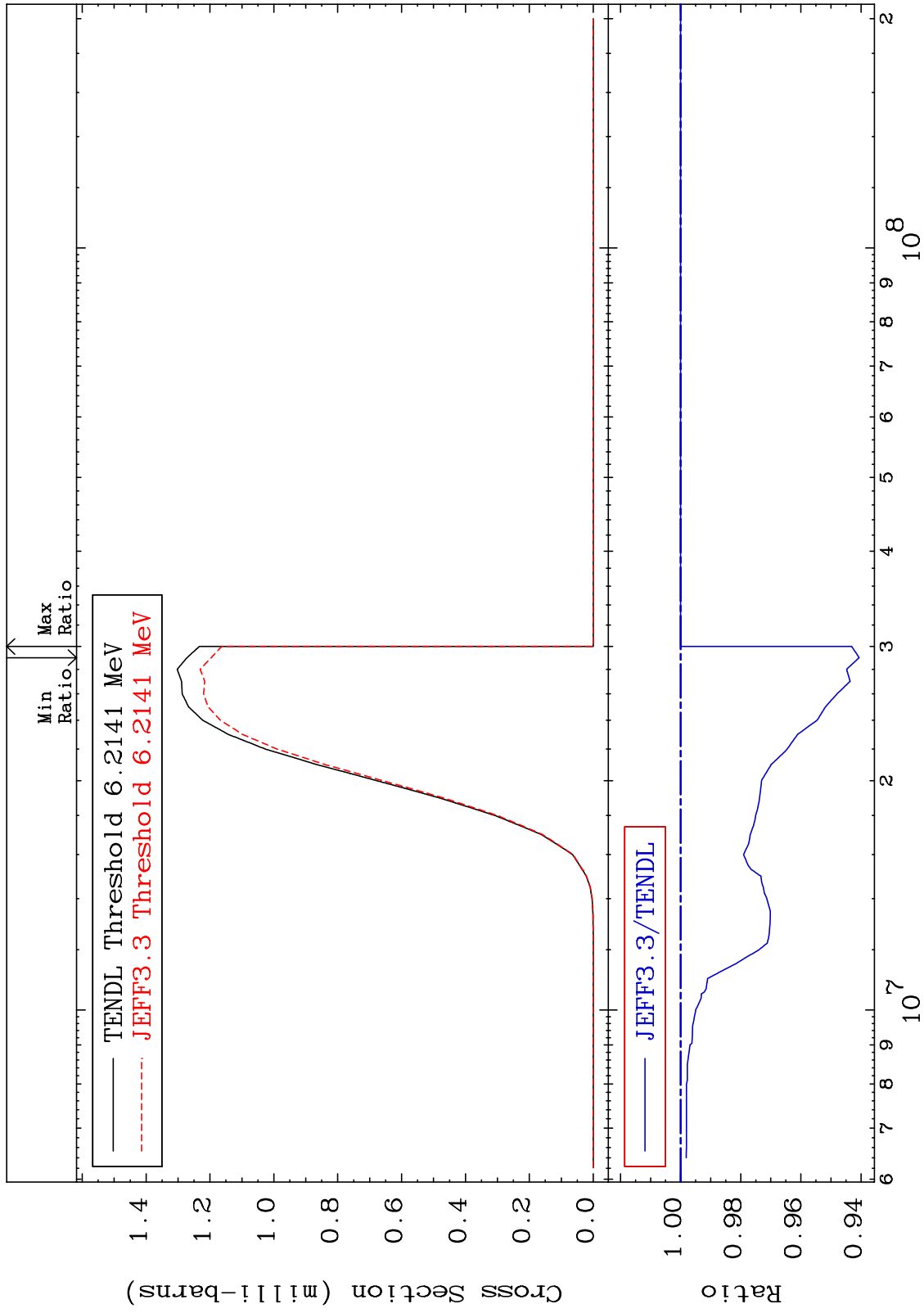
MAT 5722

(n, t): 56-Ba-135g

57-La-137

Radionuclide Production Cross Section

-5.939 To 0.000 %

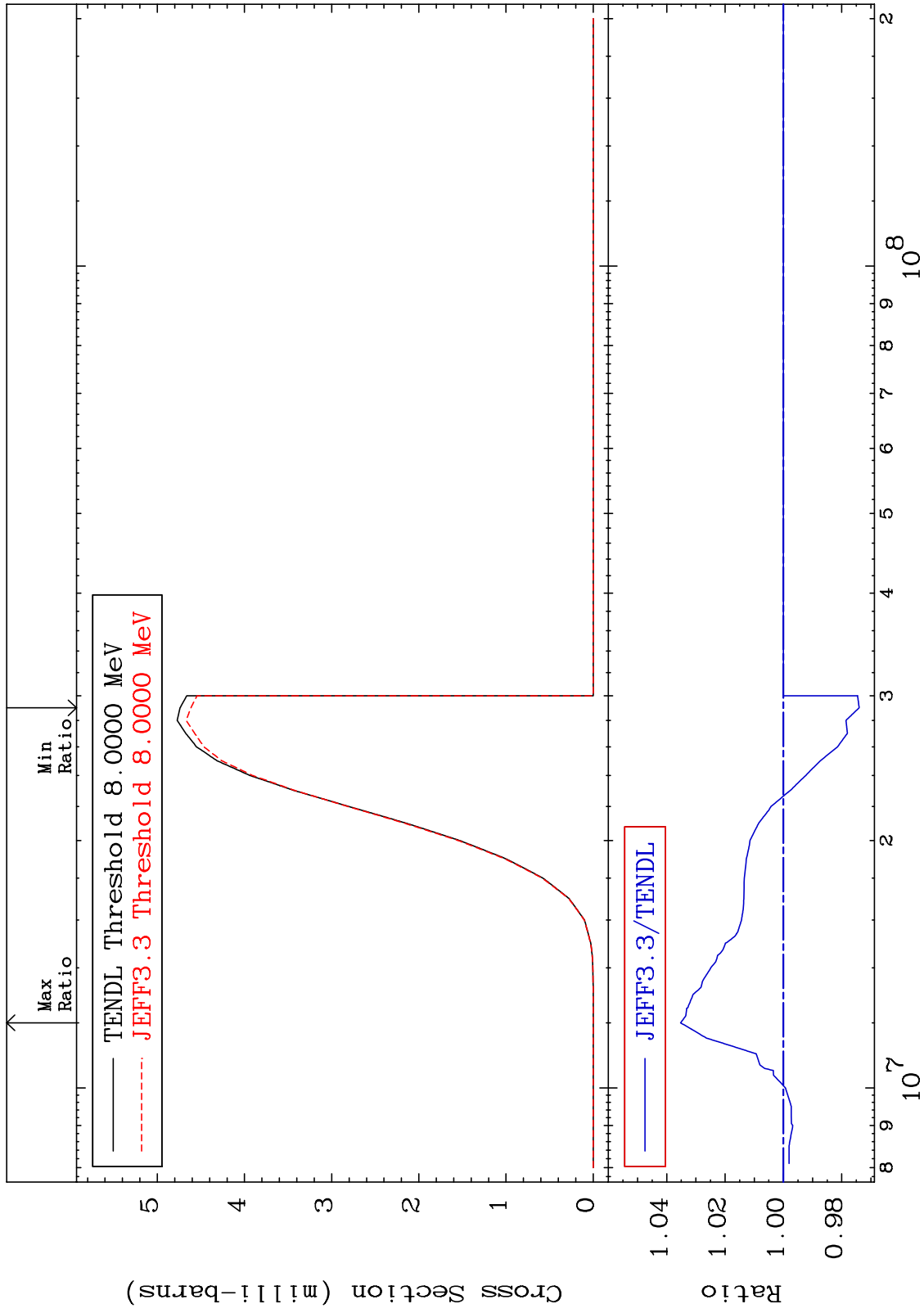


MAT 5722

(n, t):56-Ba-135m2

57-La-137

Radionuclide Production Cross Section -2.597 To 3.523 %



92

Incident Energy (eV)

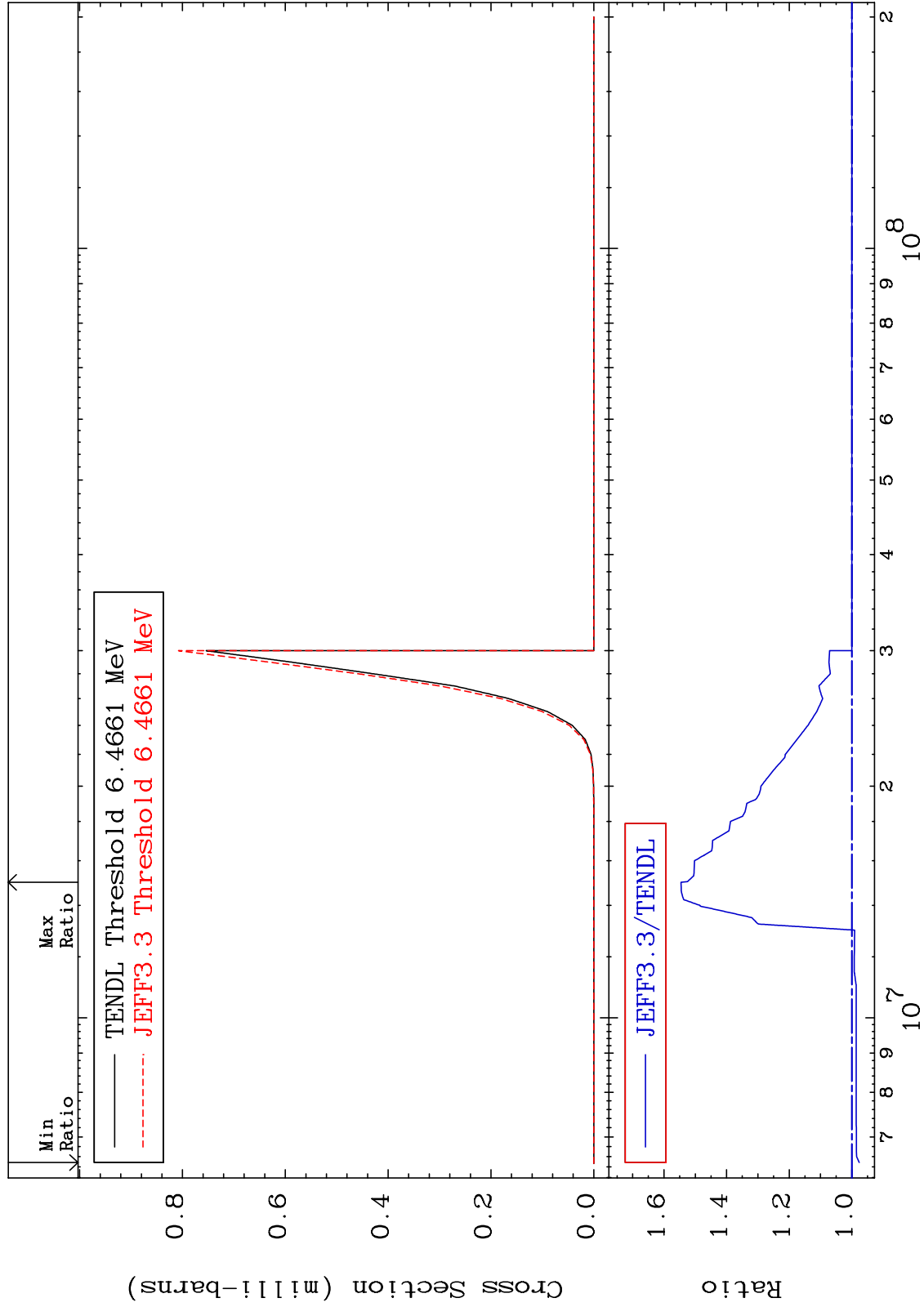
57-La-137

MAT 5722

57-La-137

(n, He-3):55-Cs-135g

Radionuclide Production Cross Section -2.379 To 54.55 %



93

Incident Energy (eV)

57-La-137

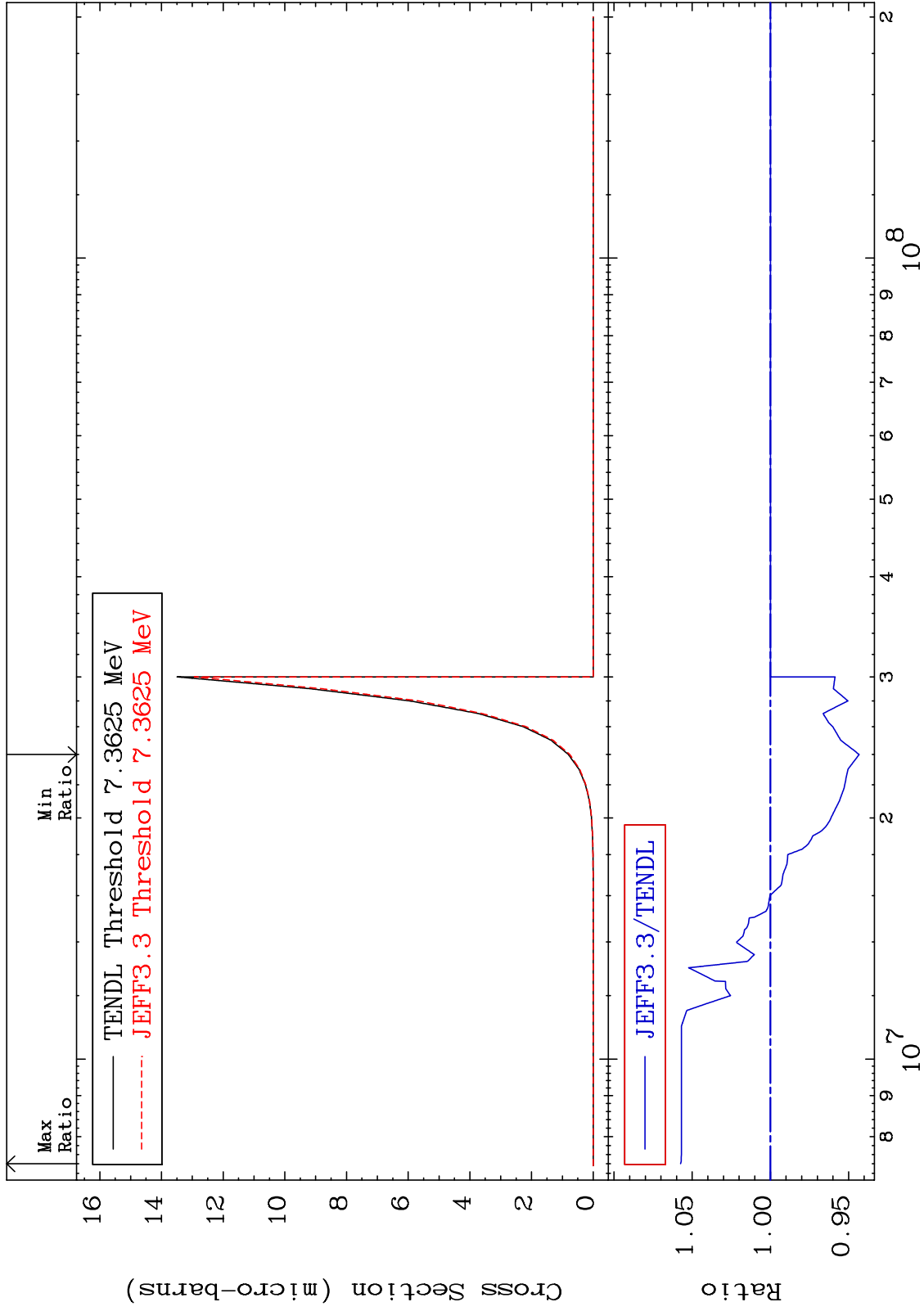
MAT 5722

(n,2p):55-Cs-136g

57-La-137

Radionuclide Production Cross Section

-5.675 To 5.742 %

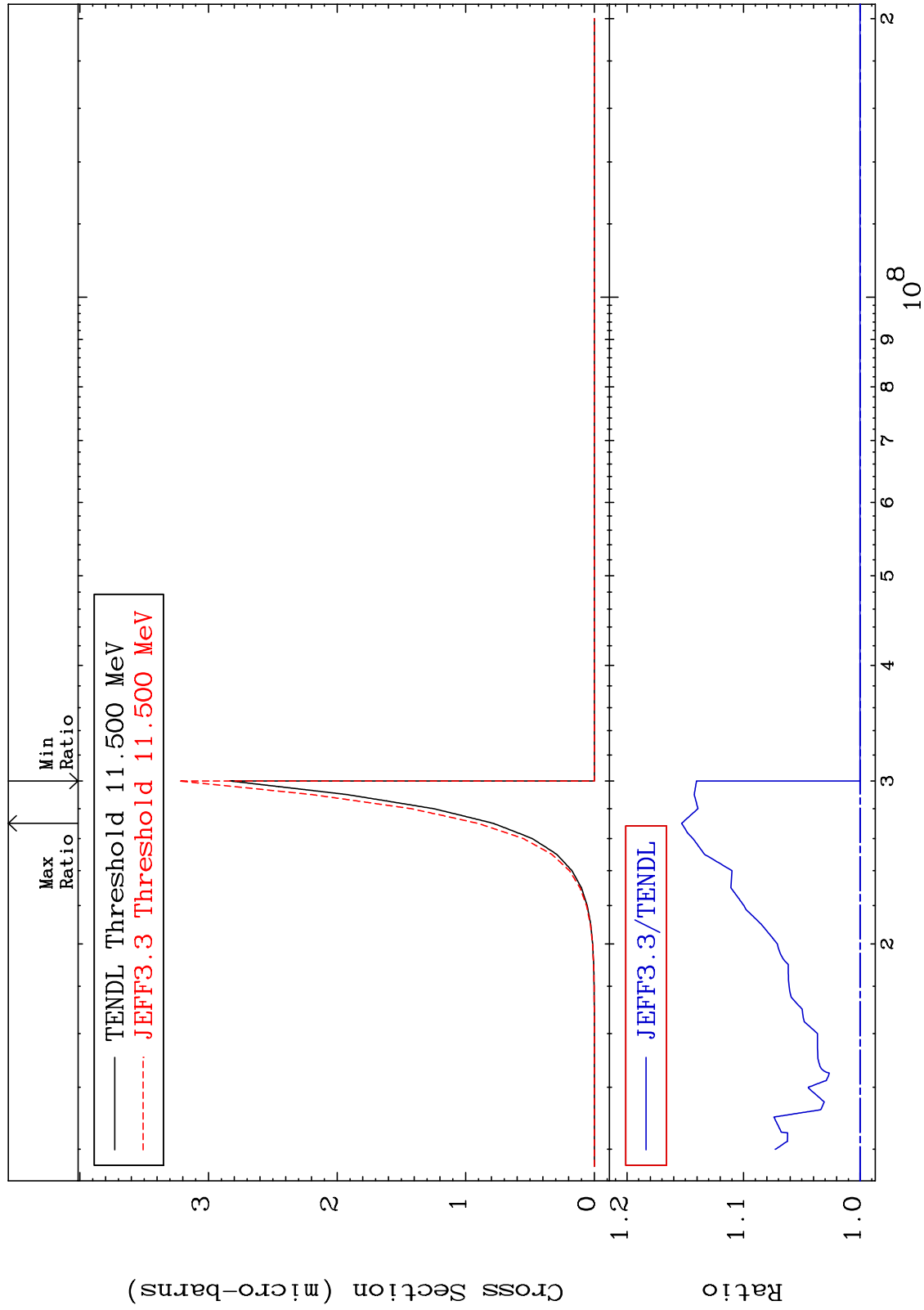


MAT 5722

(n,2p):55-Cs-136m1

57-La-137

Radionuclide Production Cross Section 0.000 To 15.31 %



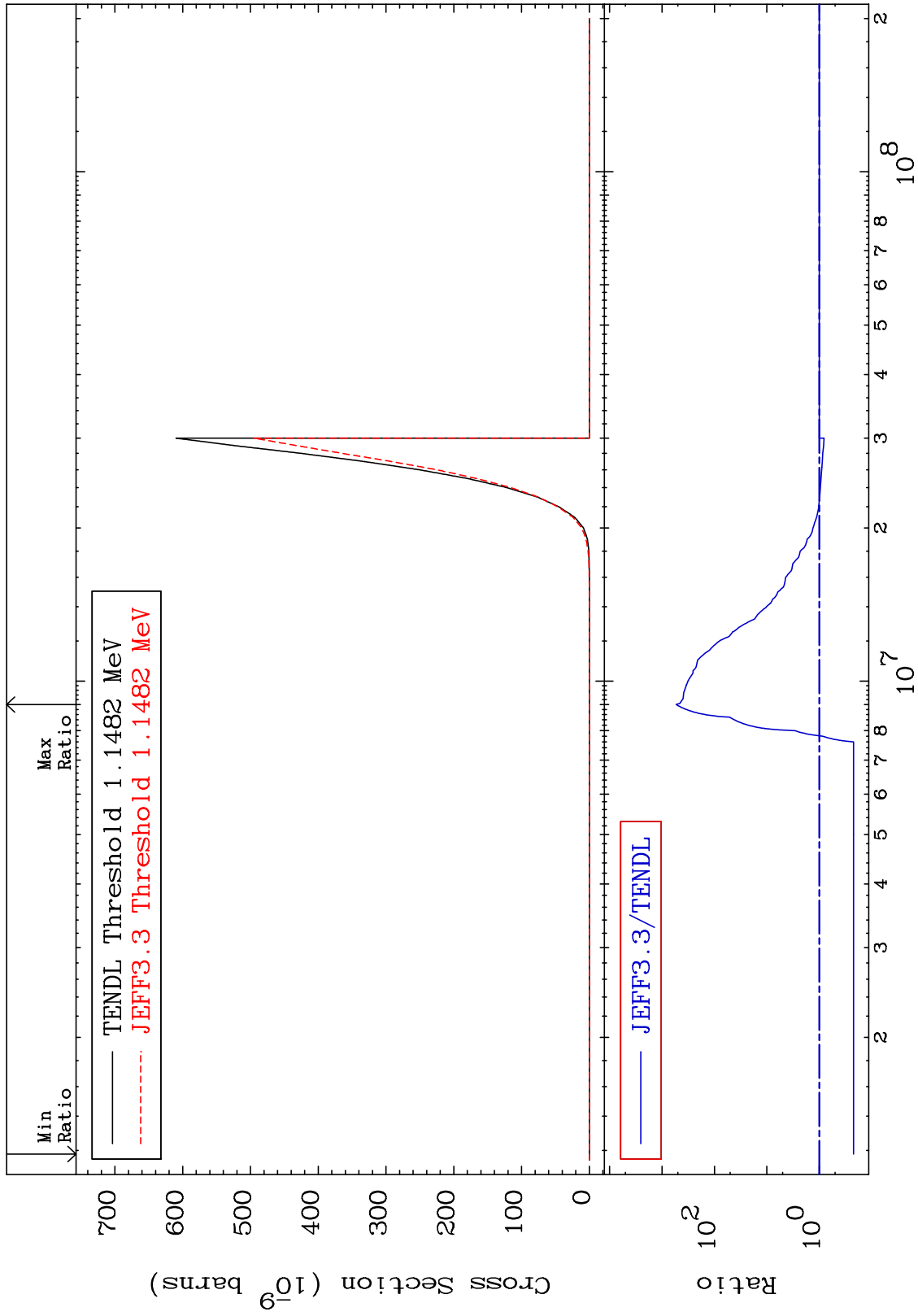
MAT 5722

(n, p) α :54-Xe-133g

57-La-137

Radionuclide Production Cross Section

-77.89 To 9999. %

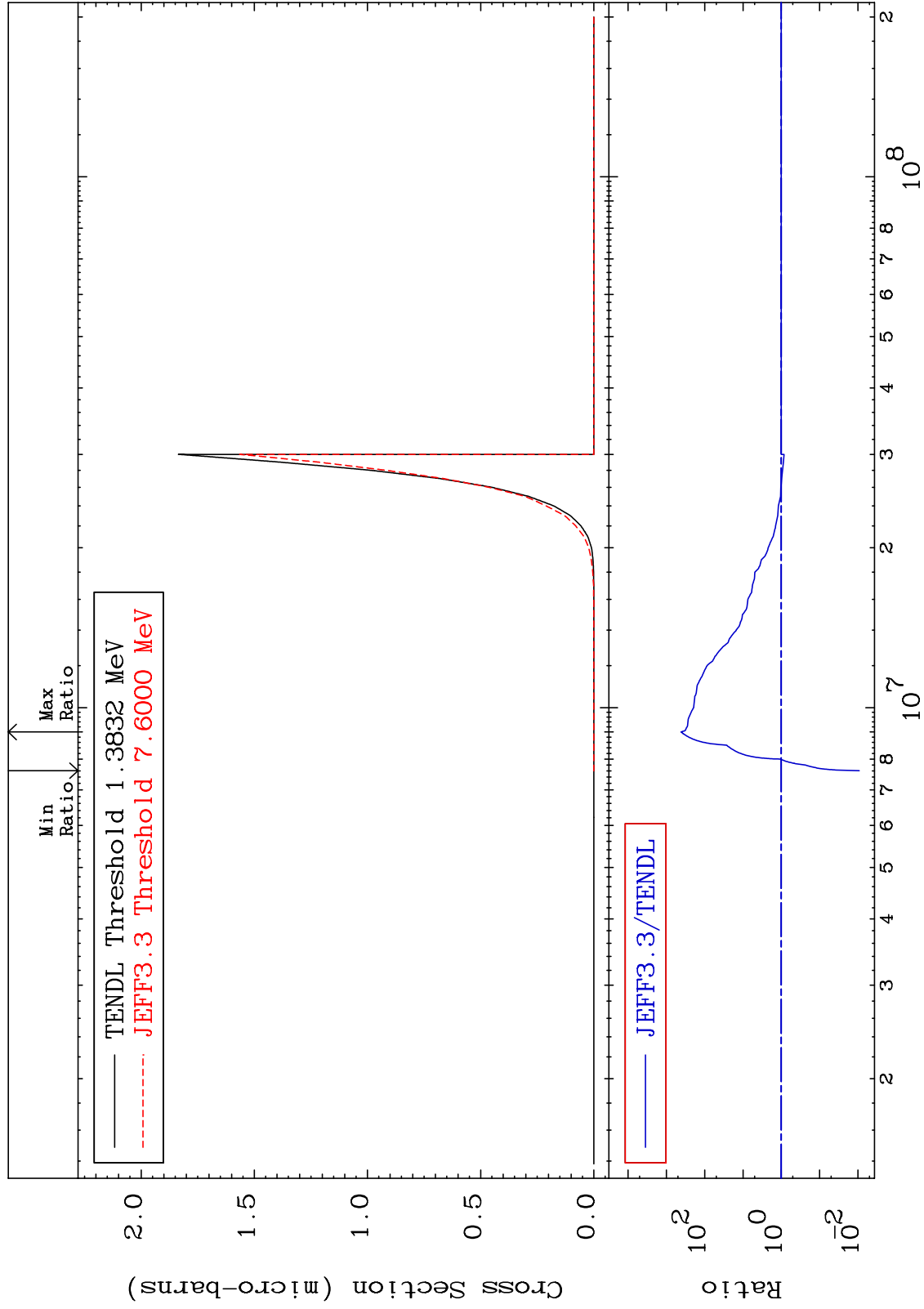


MAT 5722

(n, p) α :54-Xe-133m1

57-La-137

Radionuclide Production Cross Section -99.08 To 9999. %

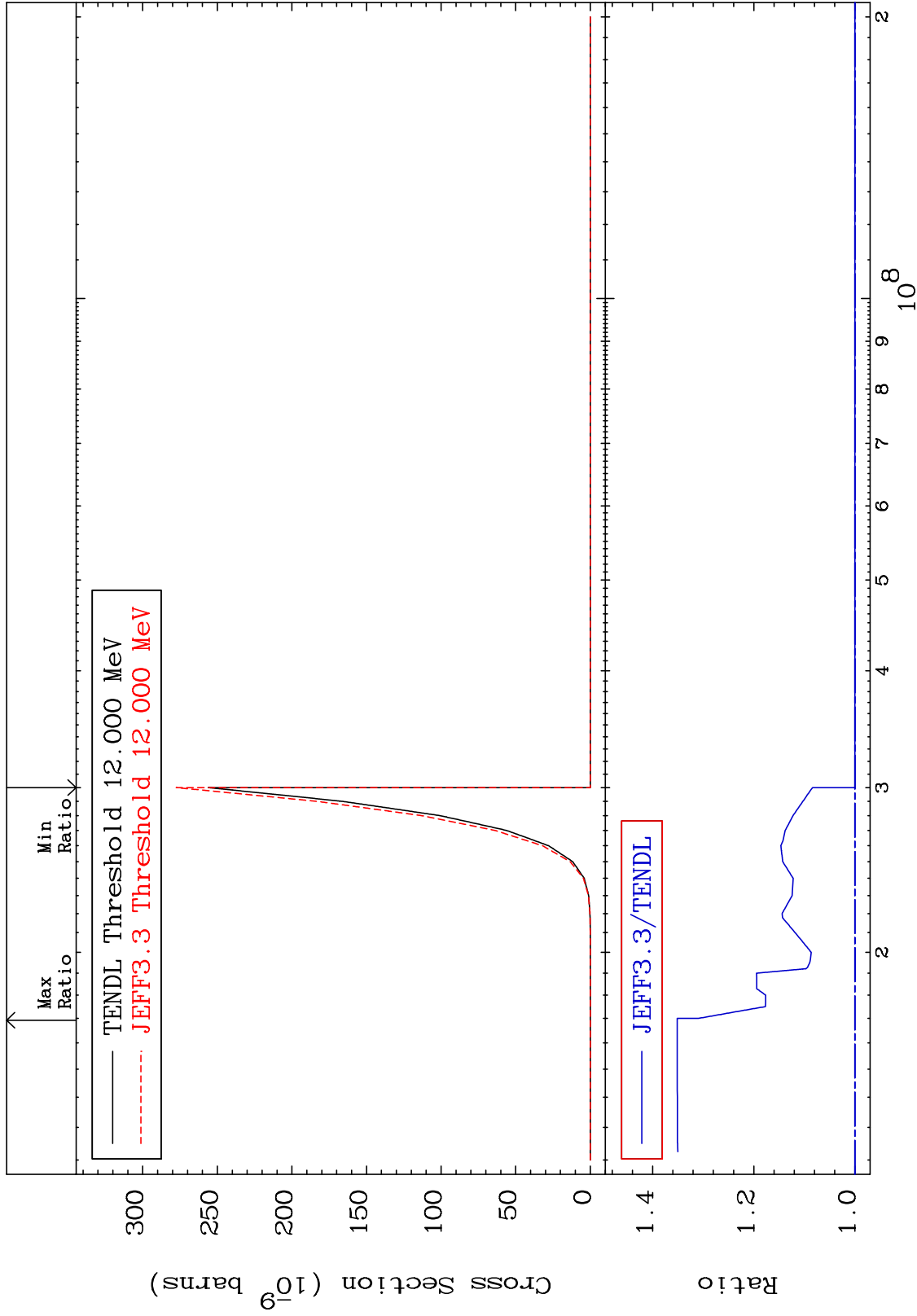


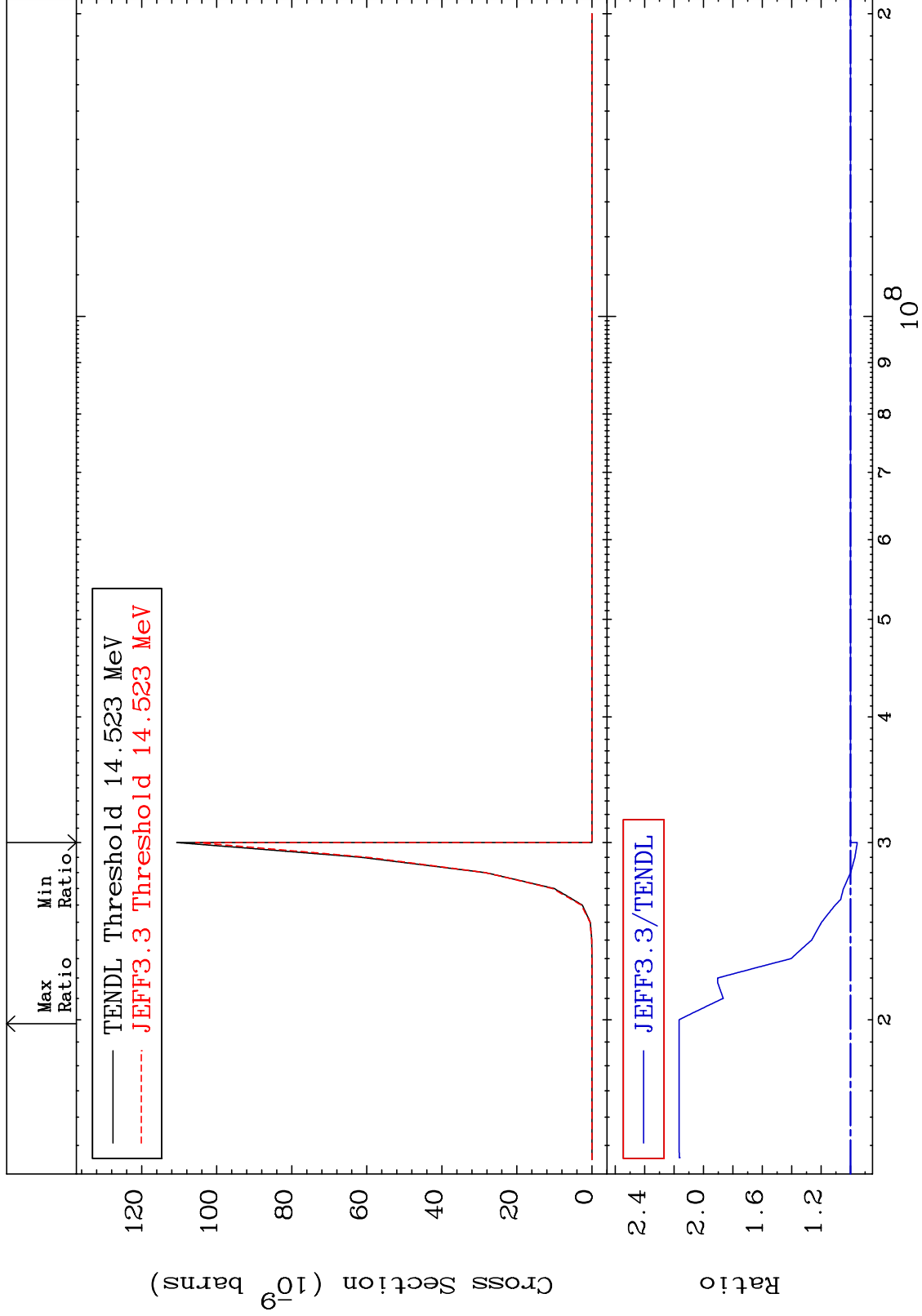
MAT 5722

(n, p) d:55-Cs-135g

57-La-137

Radionuclide Production Cross Section 0.000 To 35.14 %



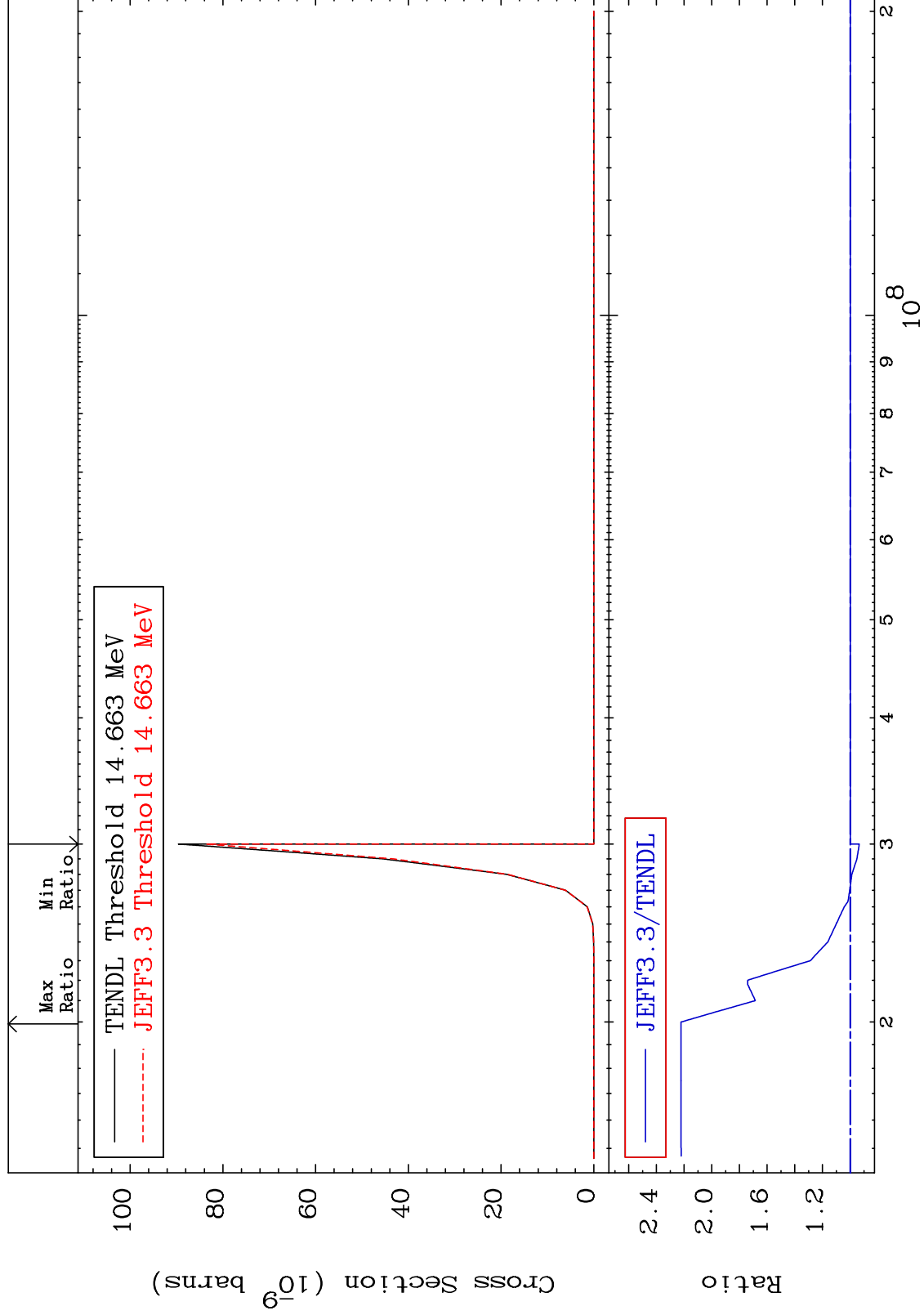


MAT 5722

(n,p) t:55-Cs-134m3

57-La-137

Radionuclide Production Cross Section -6.560 To 122.2 %



100

Incident Energy (eV)

57-La-137