

Program Complot
(Version 2018-1)

by

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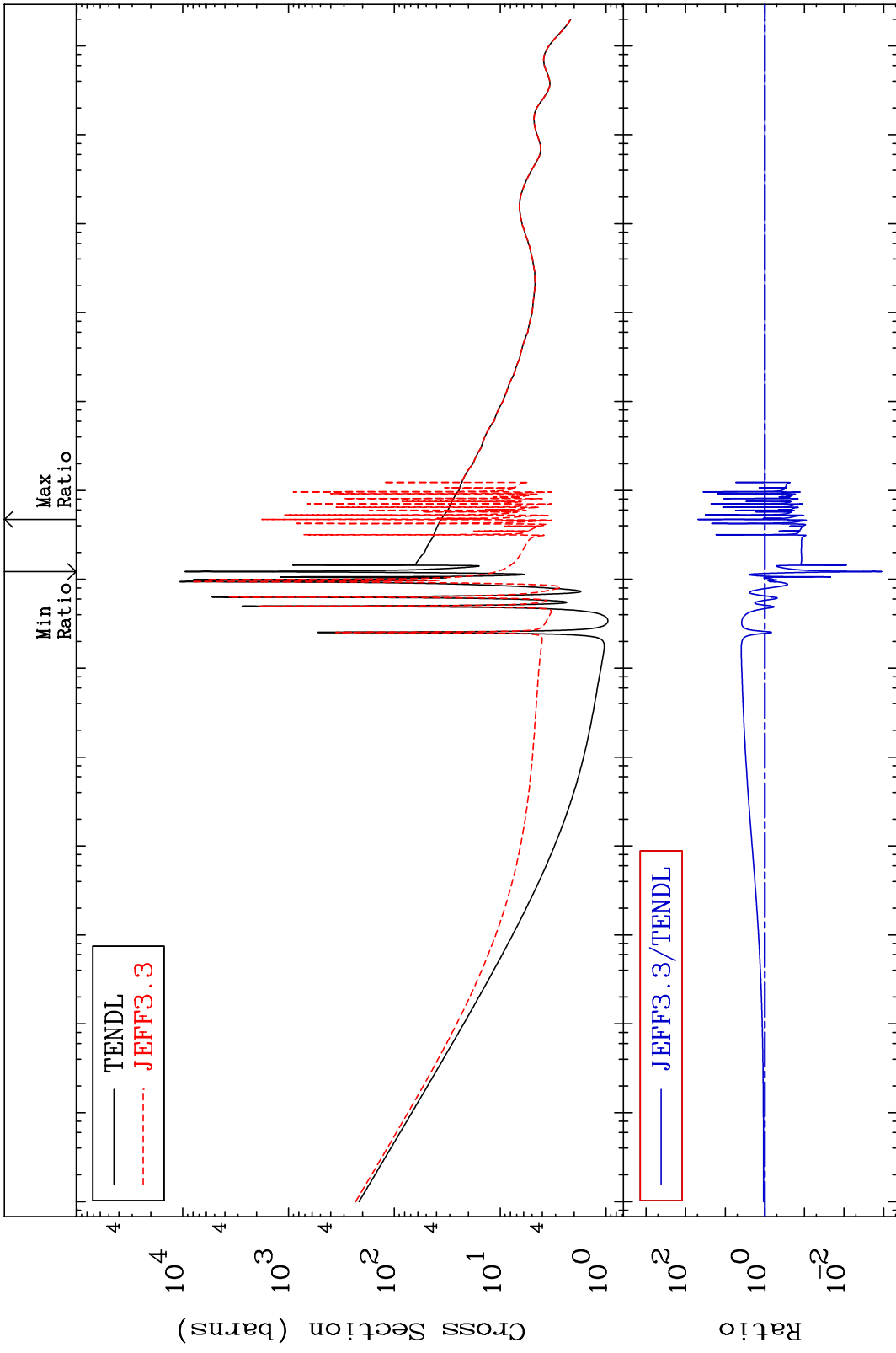
Press Mouse Button to Start

MAT 5634

56-Ba-133

-99.89 To 4840. %

Total
Cross Section



10⁴ 10³ 10² 10¹ 10⁰ 10⁻¹ 10⁻² 10⁻³ 10⁻⁴ 10⁻⁵
10⁸ 10⁷ 10⁶ 10⁵ 10⁴ 10³ 10² 10¹ 10⁰ 10⁻¹ 10⁻² 10⁻³ 10⁻⁴ 10⁻⁵
Ratio
Incident Energy (eV)
56-Ba-133

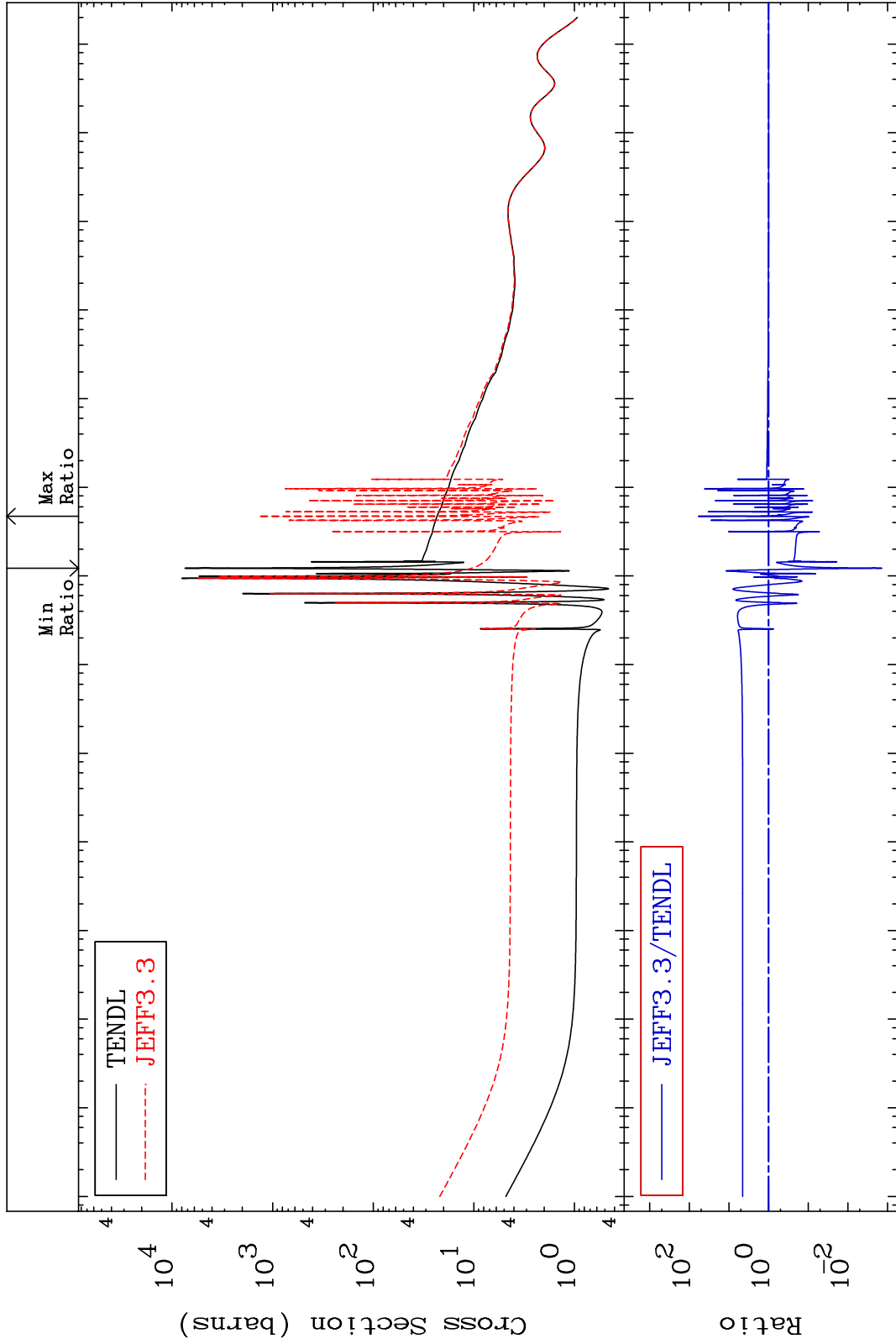
MAT 5634

Elastic

56-Ba-133

-99.86 To 5834. %

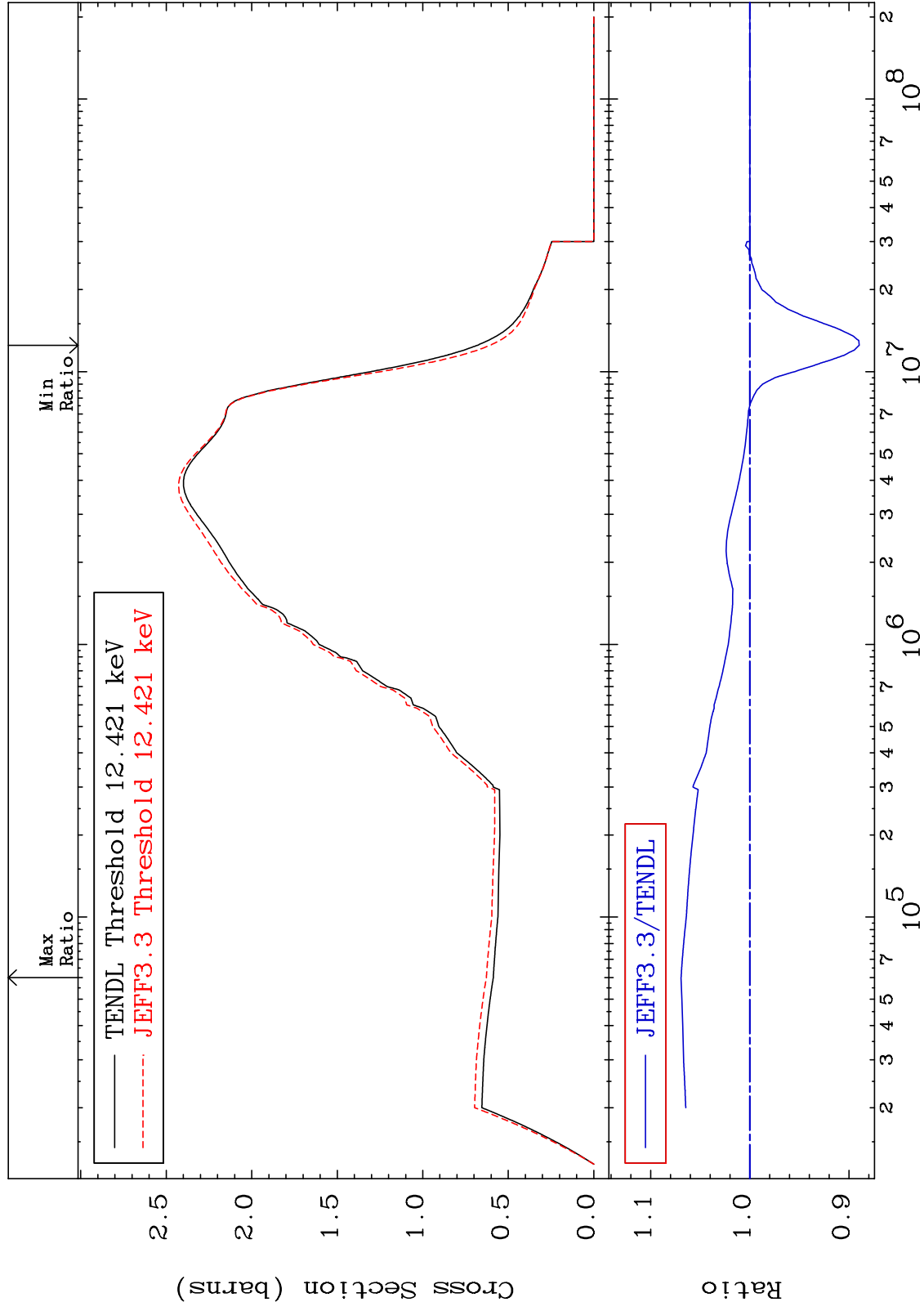
Cross Section



MAT 5634

Inelastic
Cross Section

56-Ba-133
-11.05 To 6.929 %



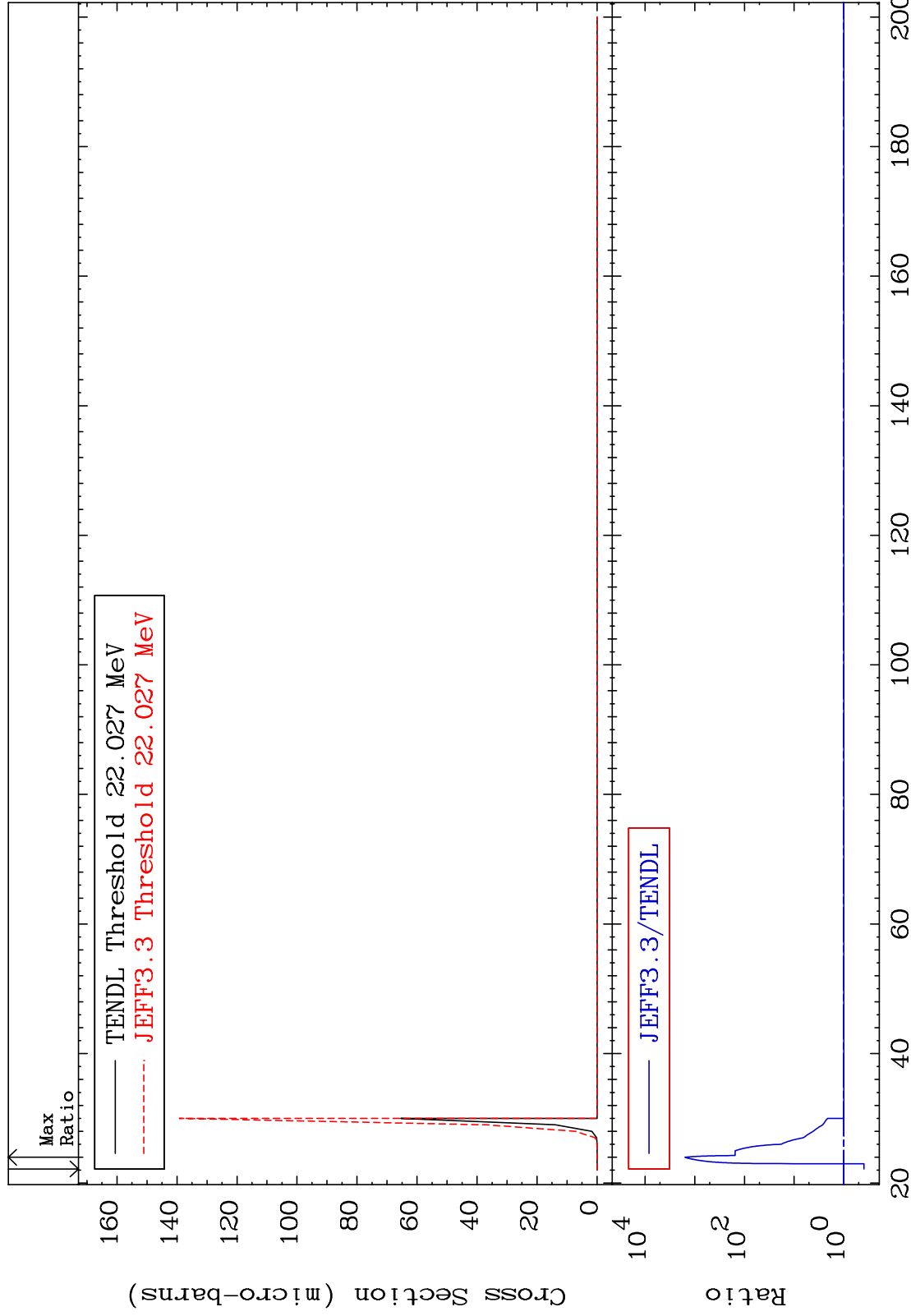
MAT 5634

(n,2n) d

56-Ba-133

Cross Section

-60.84 To 9999. %



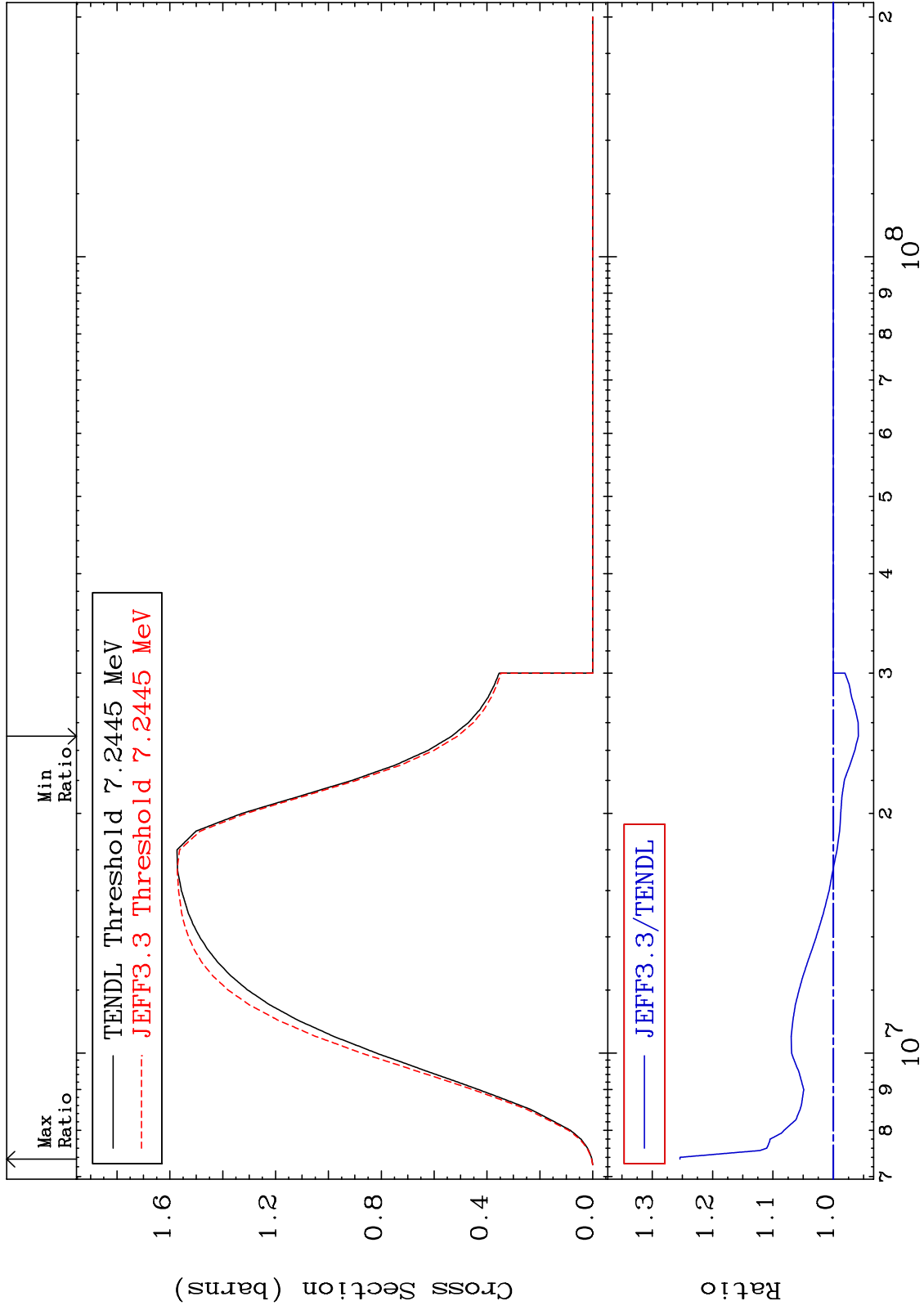
MAT 5634

(n, 2n)

56-Ba-133

Cross Section

-4.150 To 25.40 %



5

Incident Energy (eV)

56-Ba-133

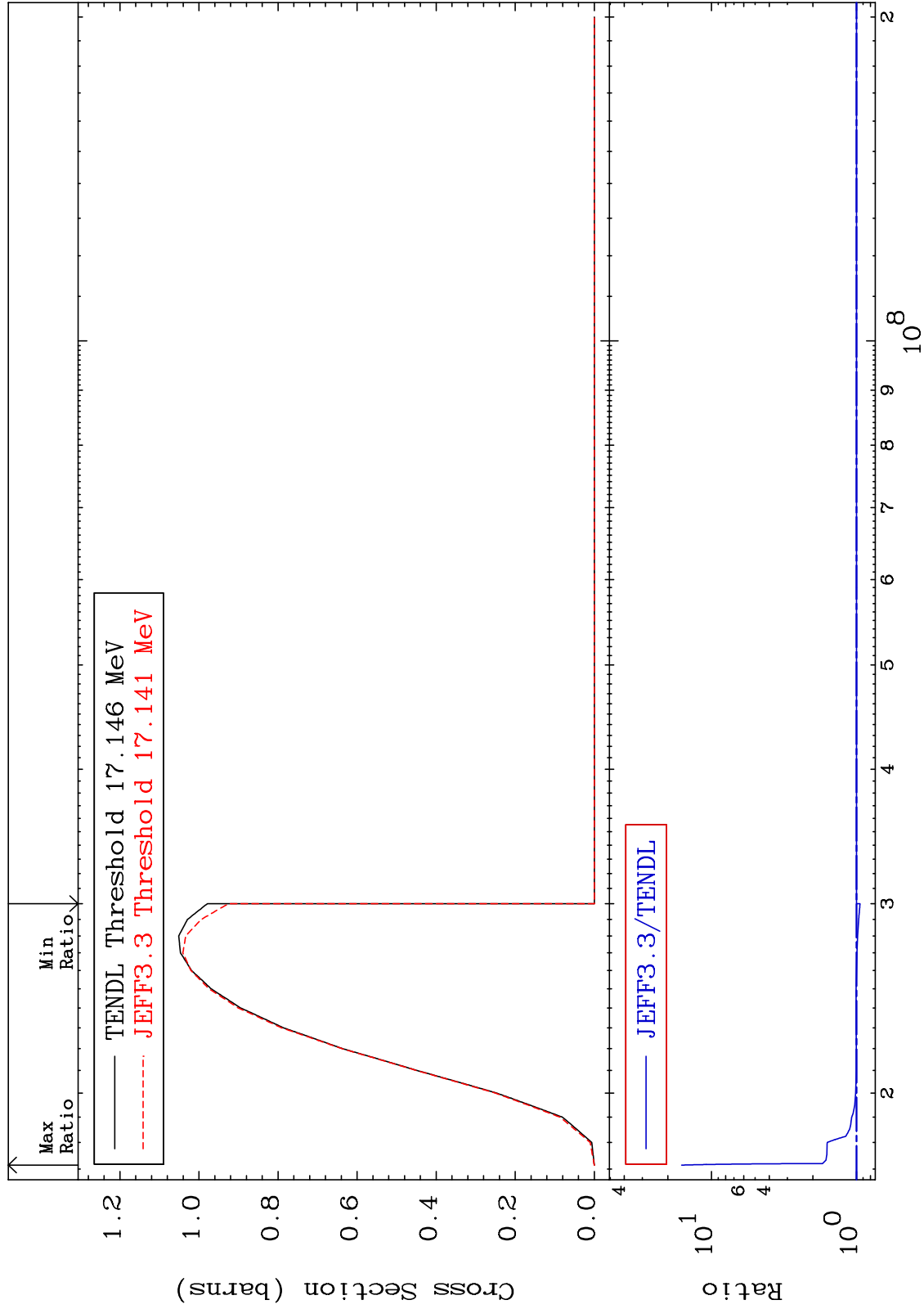
MAT 5634

(n, 3n)

56-Ba-133

Cross Section

-5.465 To 1507. %



6

Incident Energy (eV)

56-Ba-133

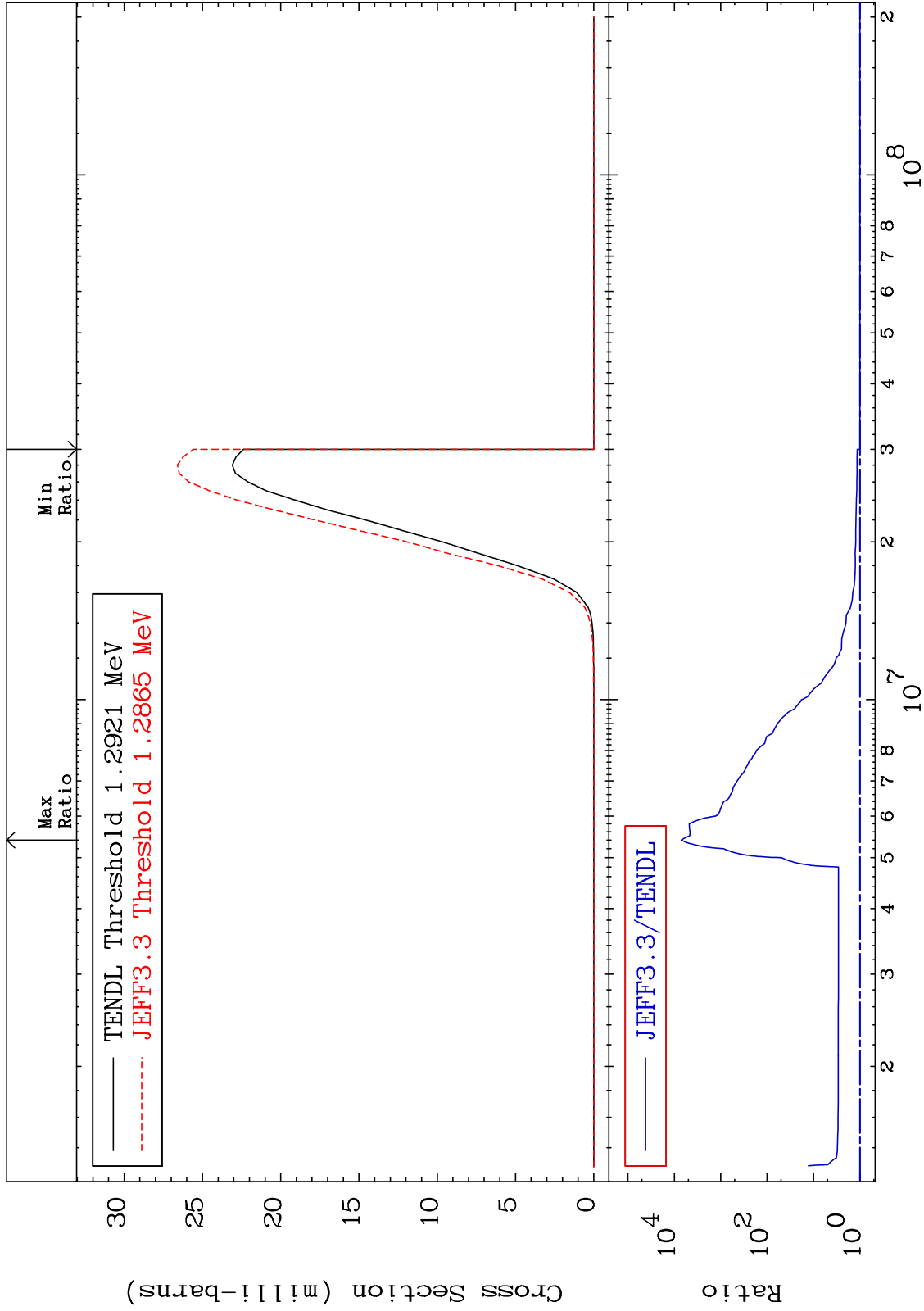
MAT 5634

(n, n') α

56-Ba-133

Cross Section

0.000 To 9999. %



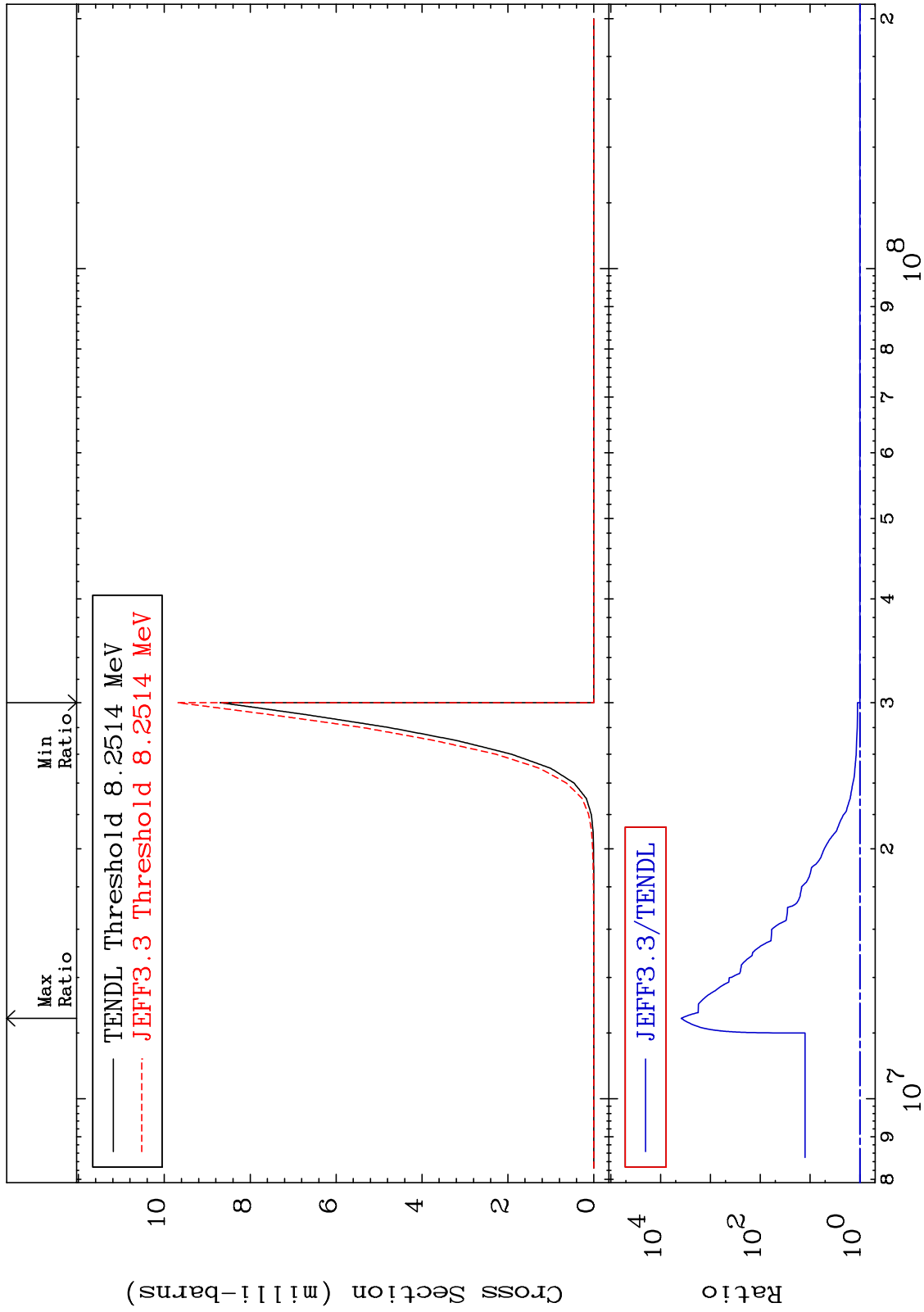
MAT 5634

(n,2n) α

56-Ba-133

0.000 To 9999. %

Cross Section



56-Ba-133

Incident Energy (eV)

8

MAT 5634

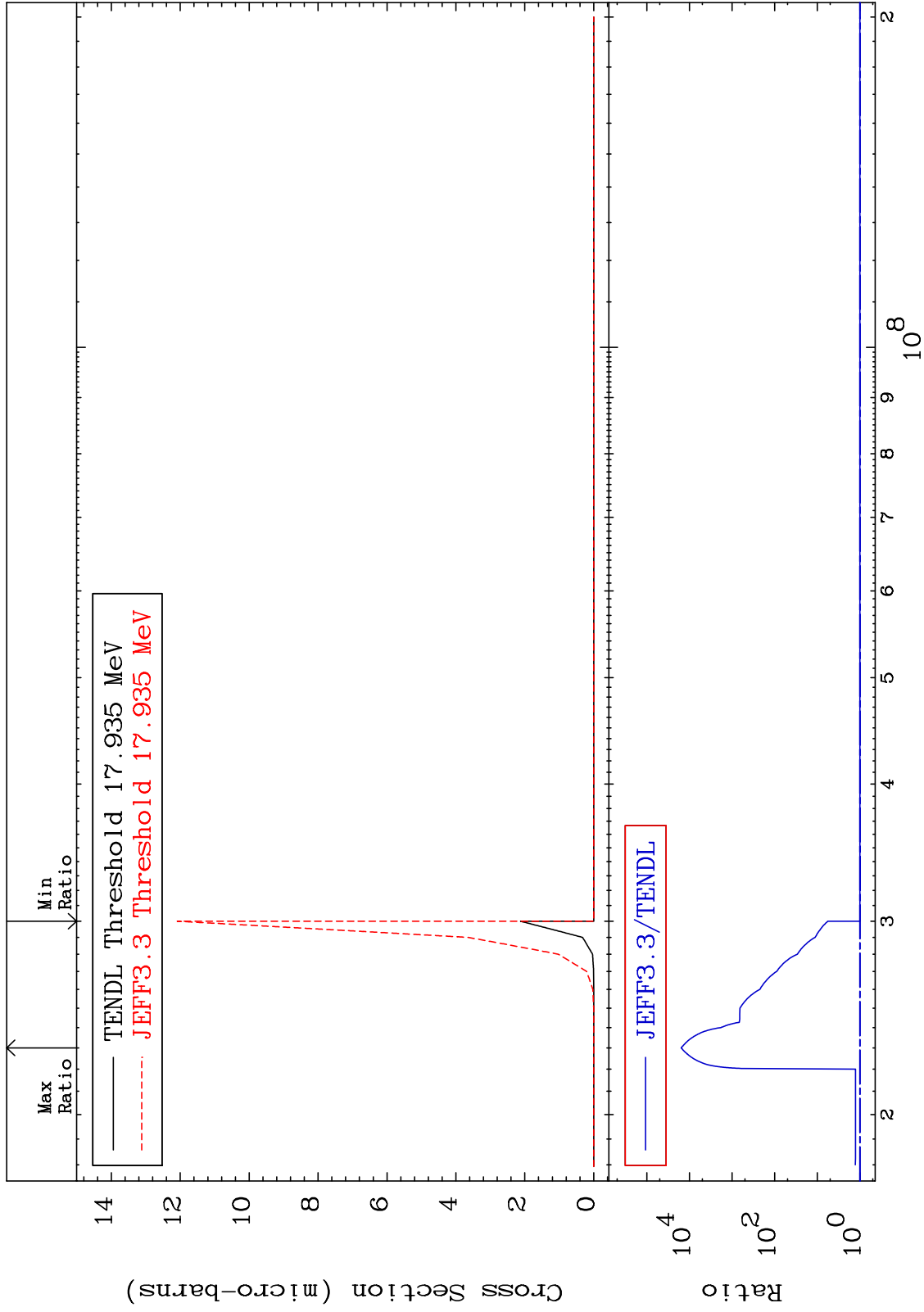
(n, 3n) α

56-Ba-133

Cross Section

0.000

To 9999. %



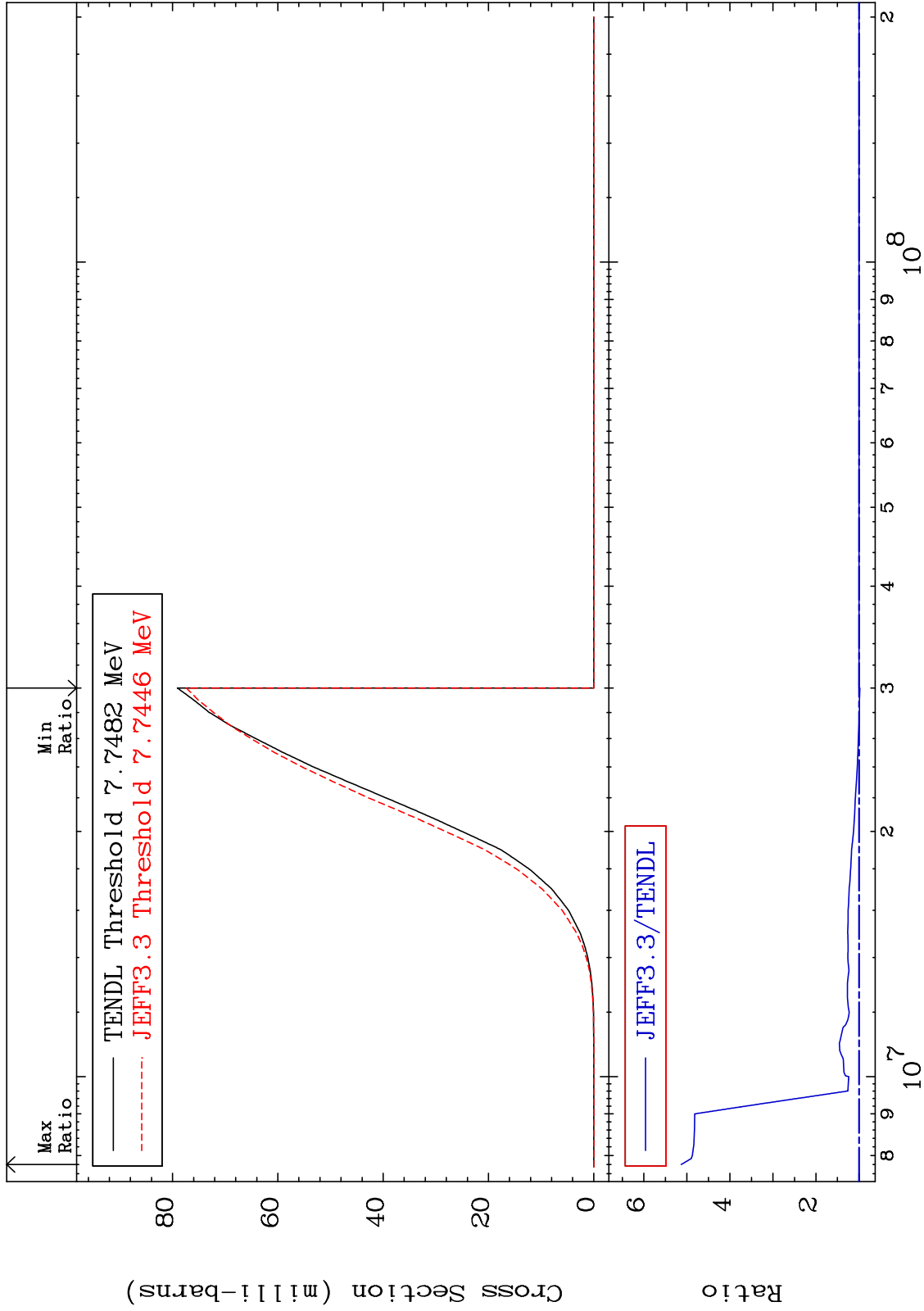
MAT 5634

(n,n') p

56-Ba-133

Cross Section

-2.144 To 413.1 %



10

Incident Energy (eV)

56-Ba-133

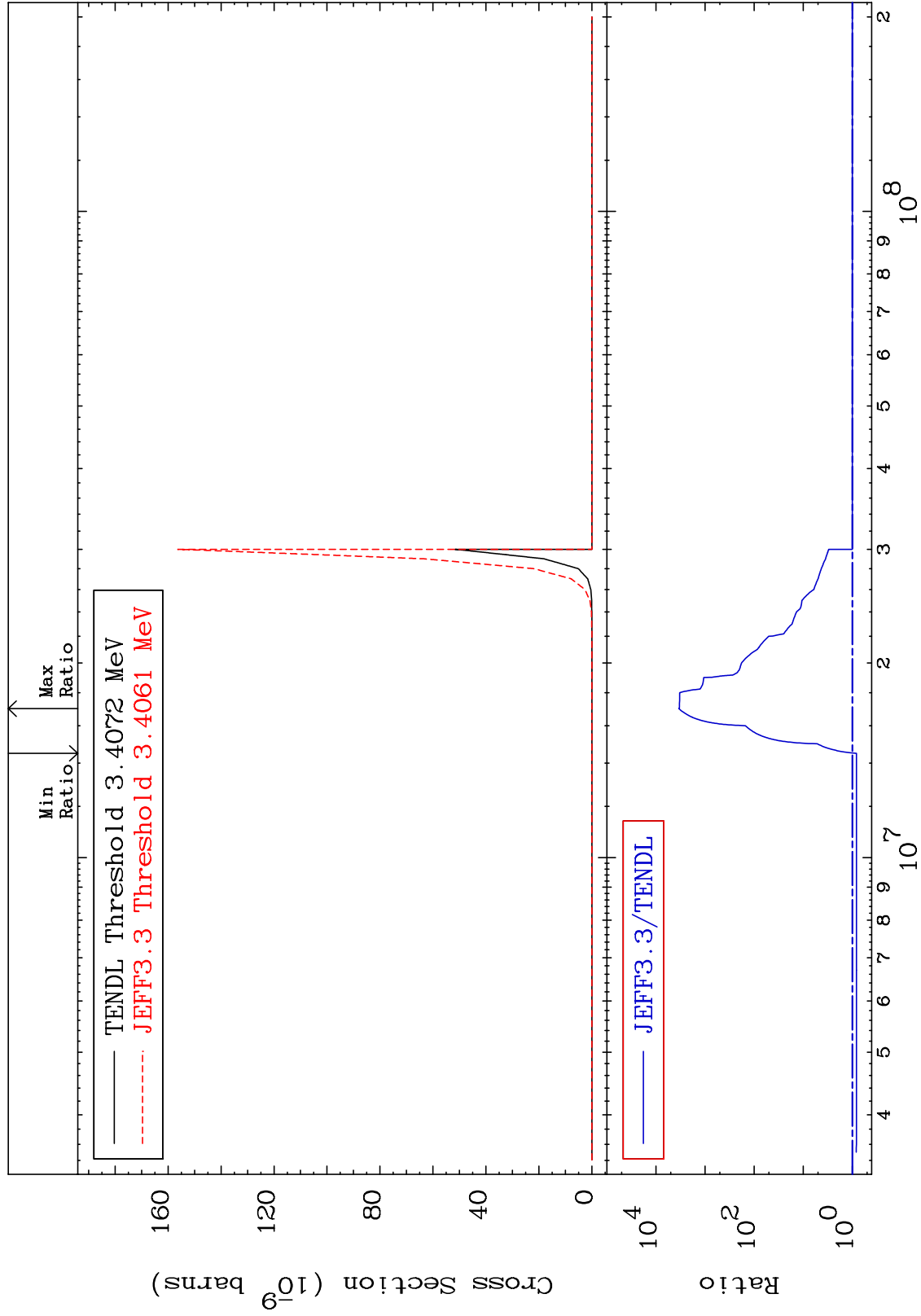
MAT 5634

(n, n') 2α

56-Ba-133

-17.78 To 9999. %

Cross Section



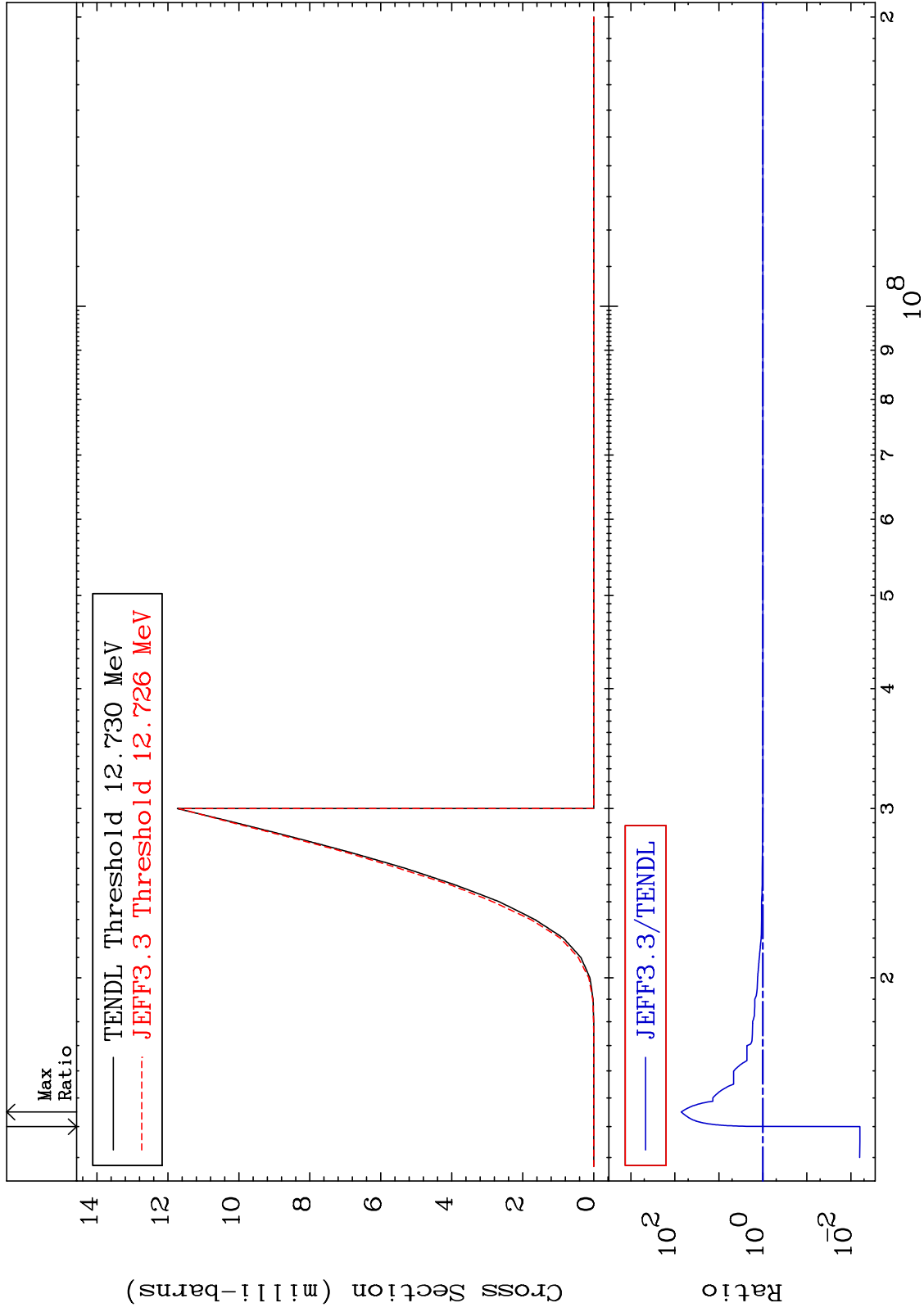
MAT 5634

(n,n') d

56-Ba-133

Cross Section

-99.38 To 7075. %



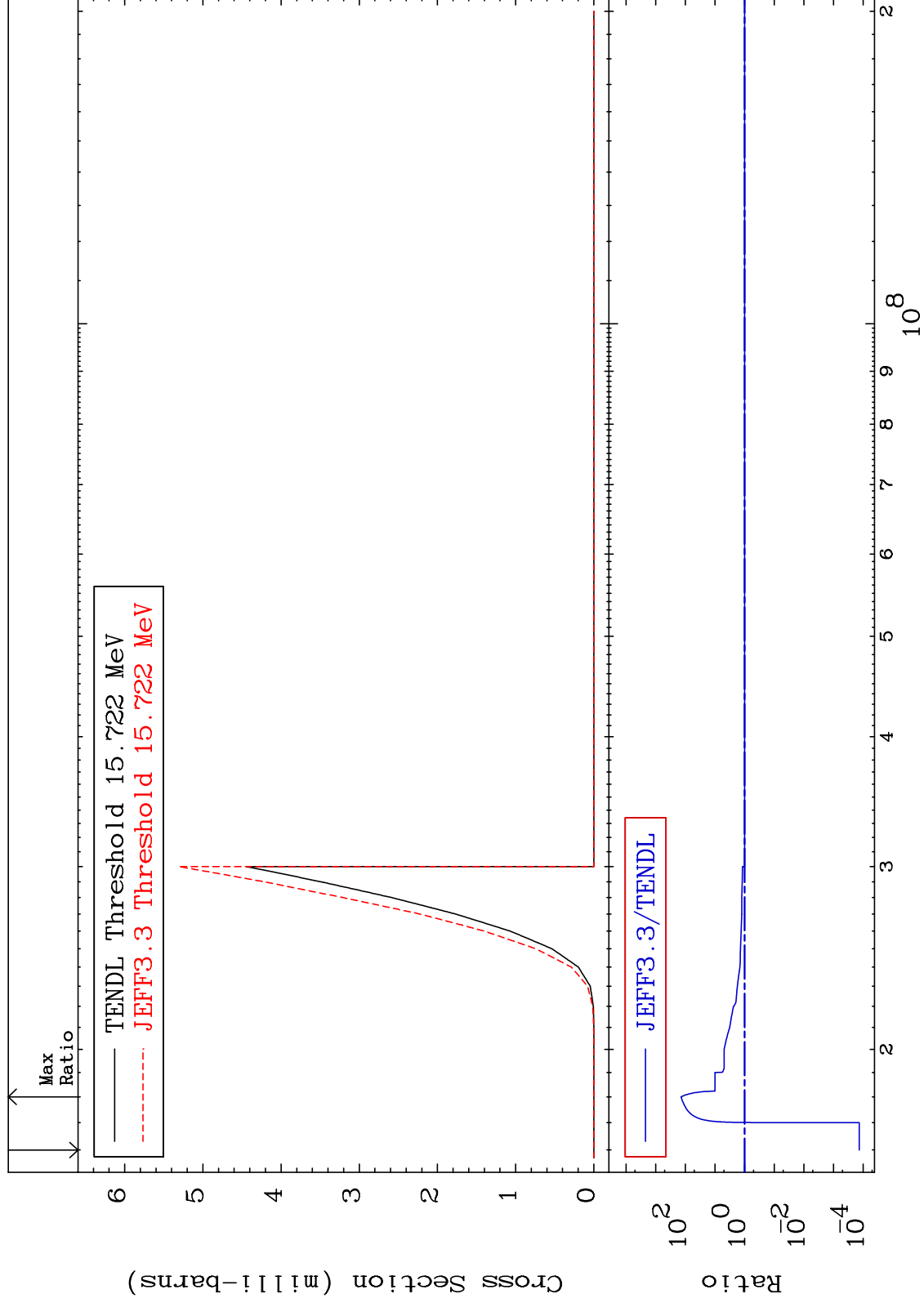
MAT 5634

(n, n') t

56-Ba-133

Cross Section

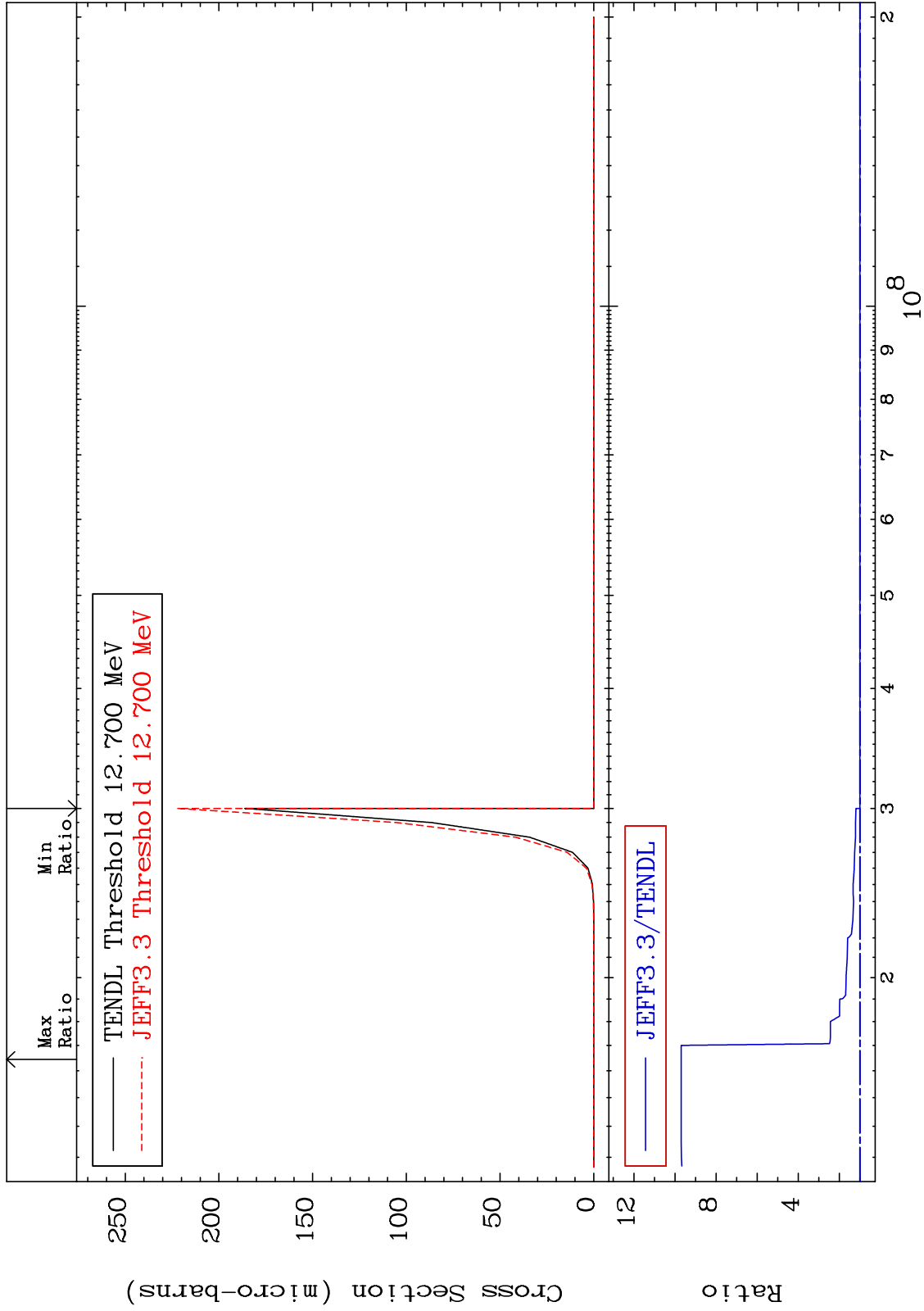
-99.99 To 9999. %



MAT 5634

(n, n') He-3
Cross Section

56-Ba-133
0.000 To 869.5 %



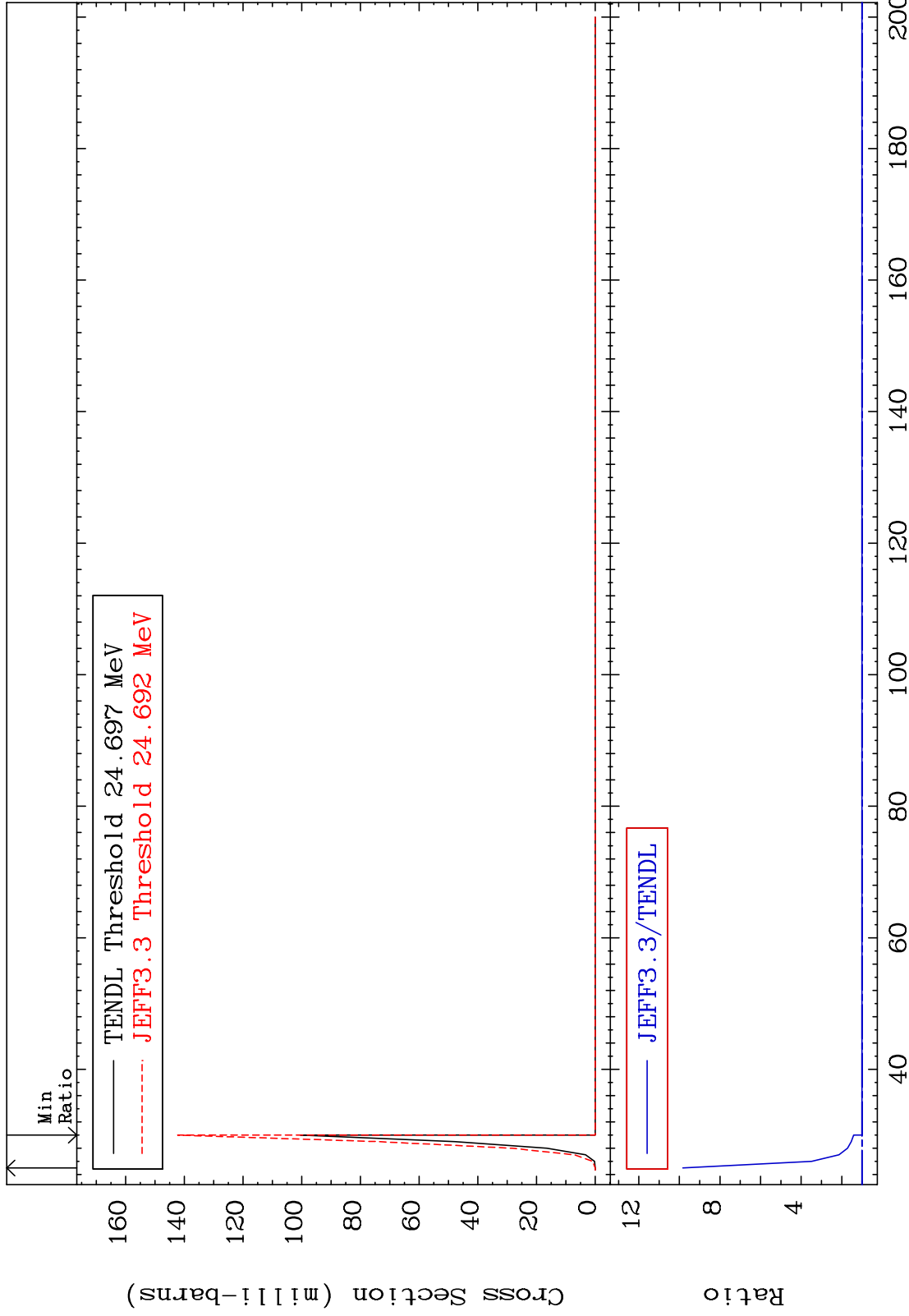
MAT 5634

(n, 4n)

56-Ba-133

Cross Section

0.000 To 882.9 %



MAT 5634

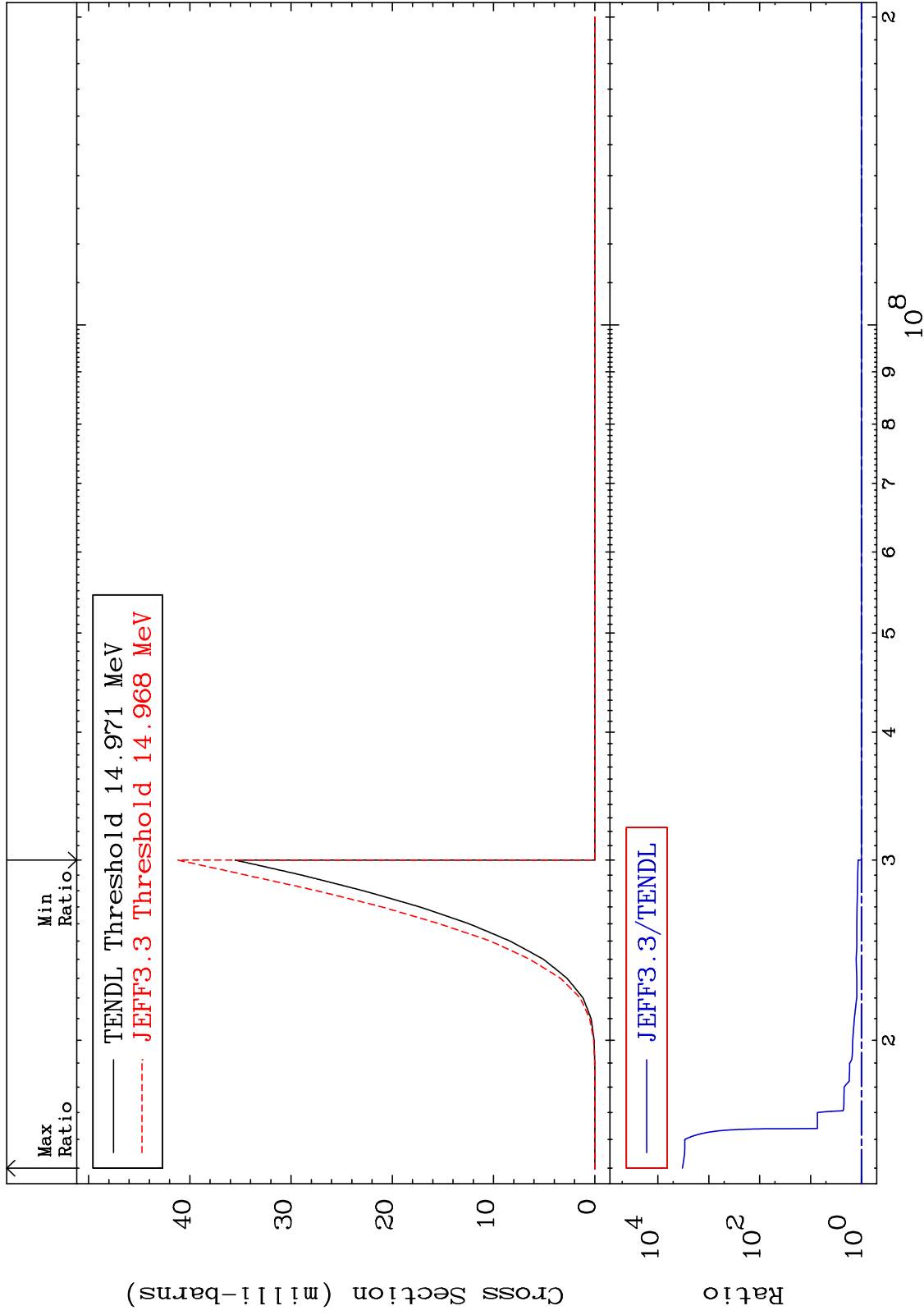
(n,2n) p

56-Ba-133

Cross Section

0.000

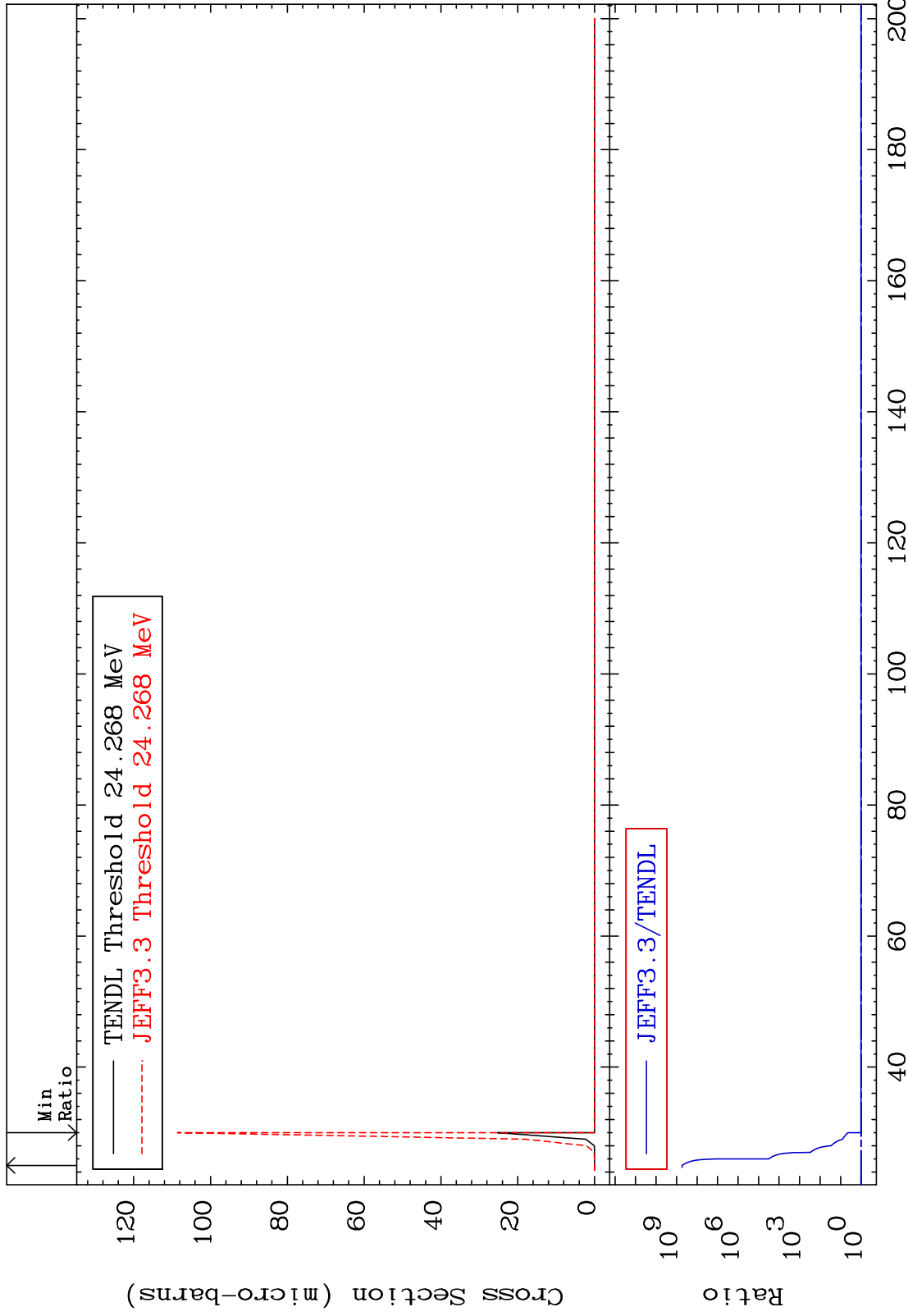
To 9999. %



MAT 5634

(n,3n) p
Cross Section

56-Ba-133
0.000 To 9999. %



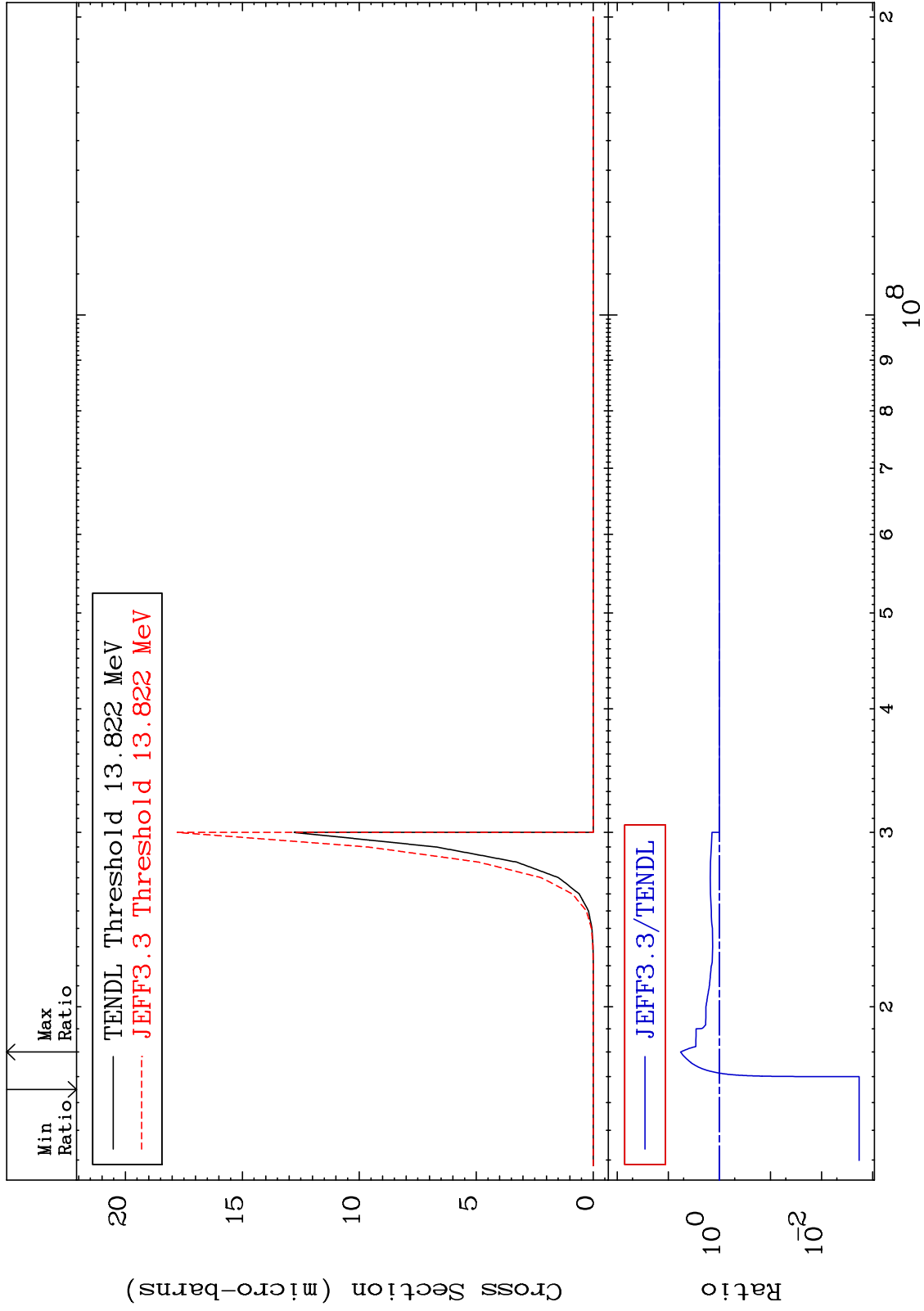
MAT 5634

(n,2n) p

56-Ba-133

Cross Section

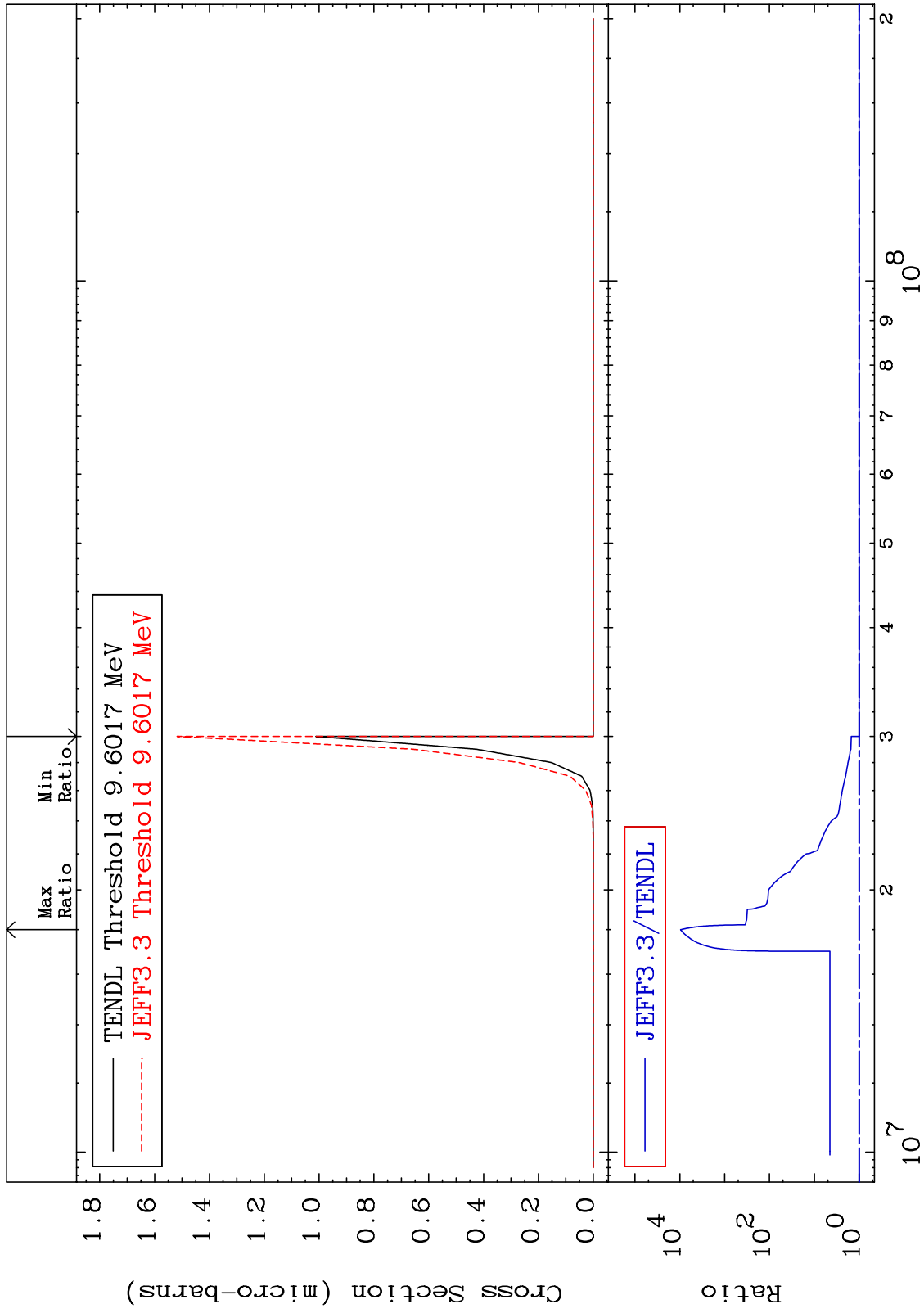
-99.82 To 471.9 %



MAT 5634

(n,n') p α
Cross Section

56-Ba-133
To 9999. %
0.000



56-Ba-133

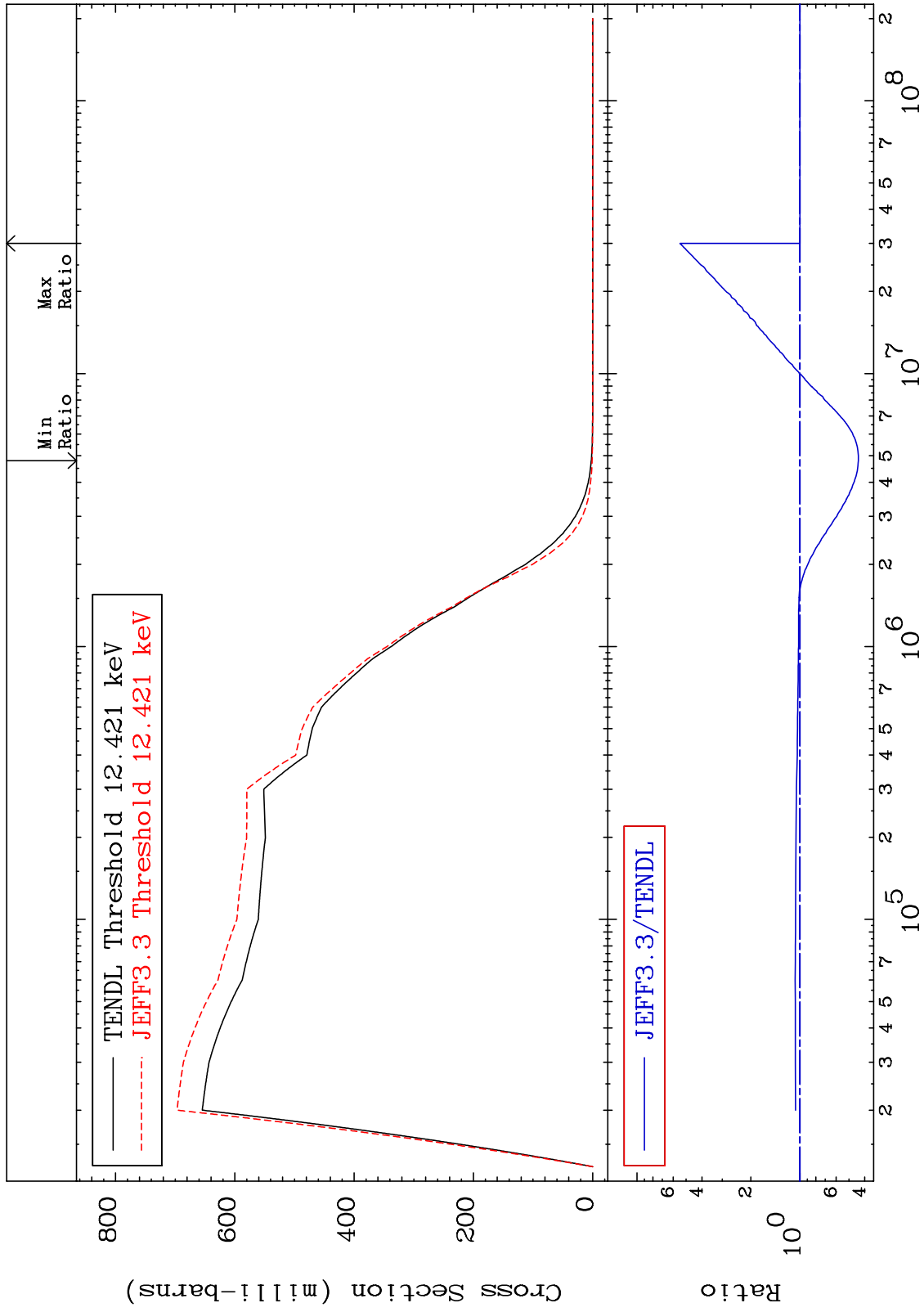
Incident Energy (eV)

19

MAT 5634

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

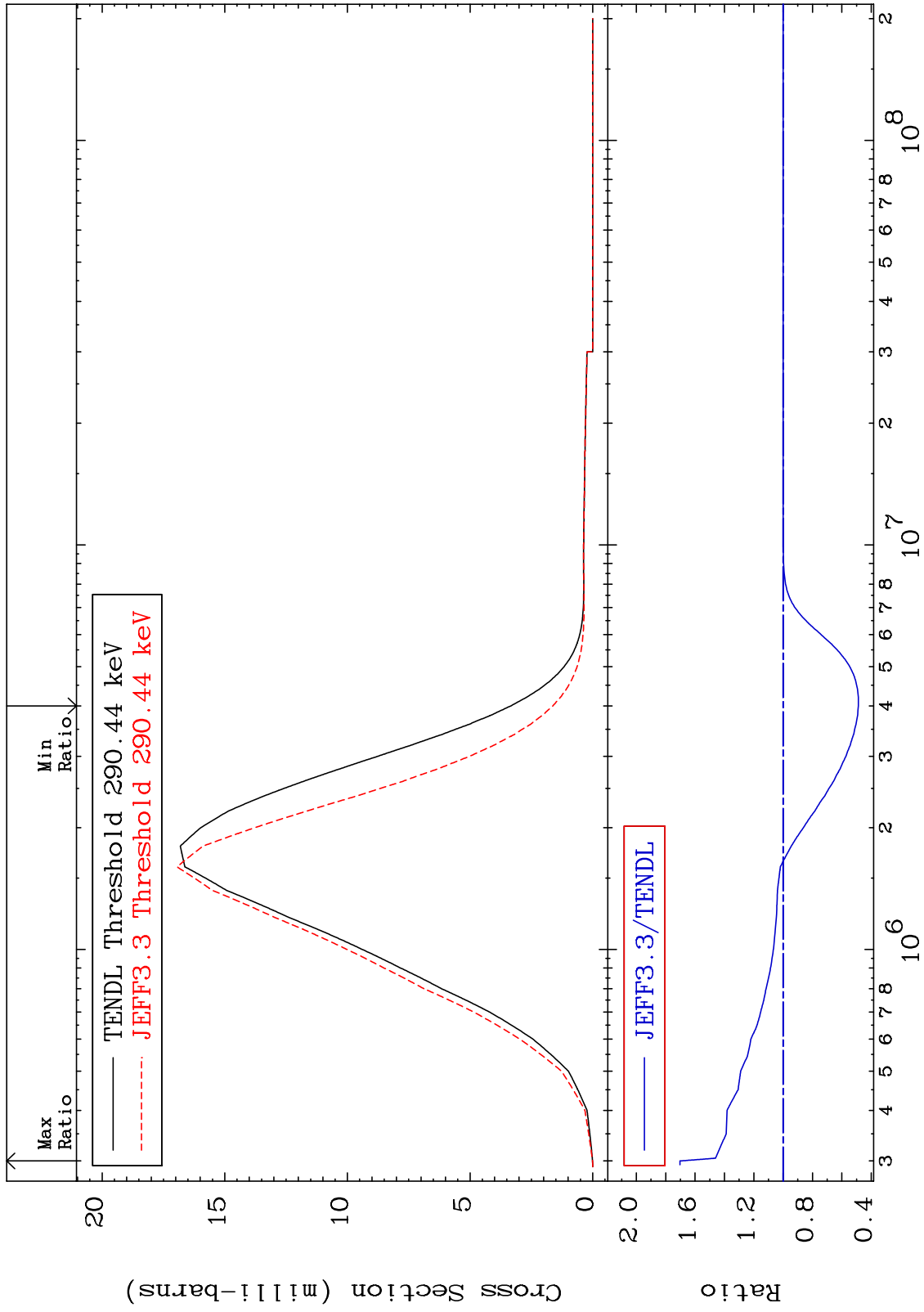
56-Ba-133
-56.23 To 444.8 %



MAT 5634

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

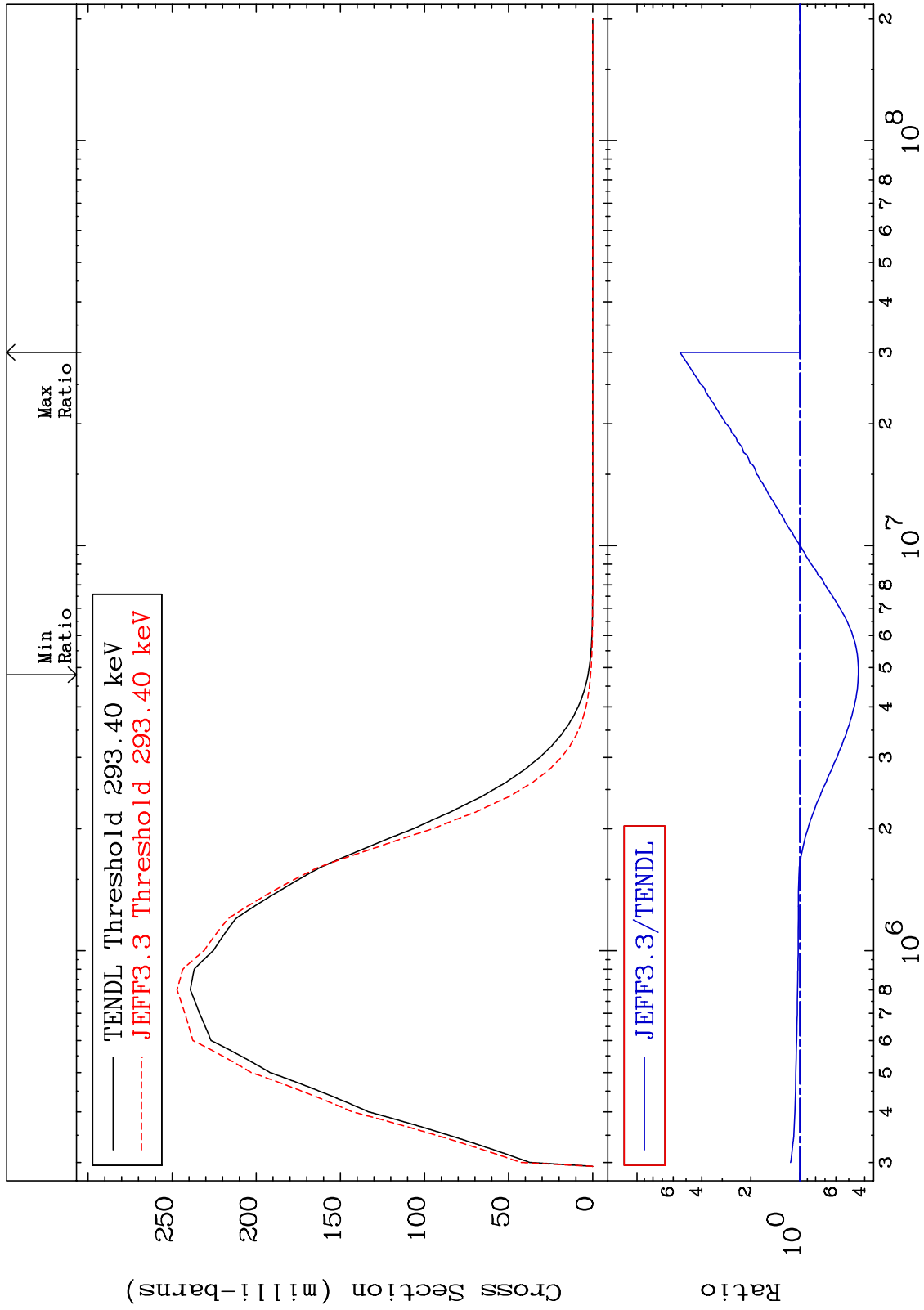
56-Ba-133
-51.26 To 70.24 %



MAT 5634

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

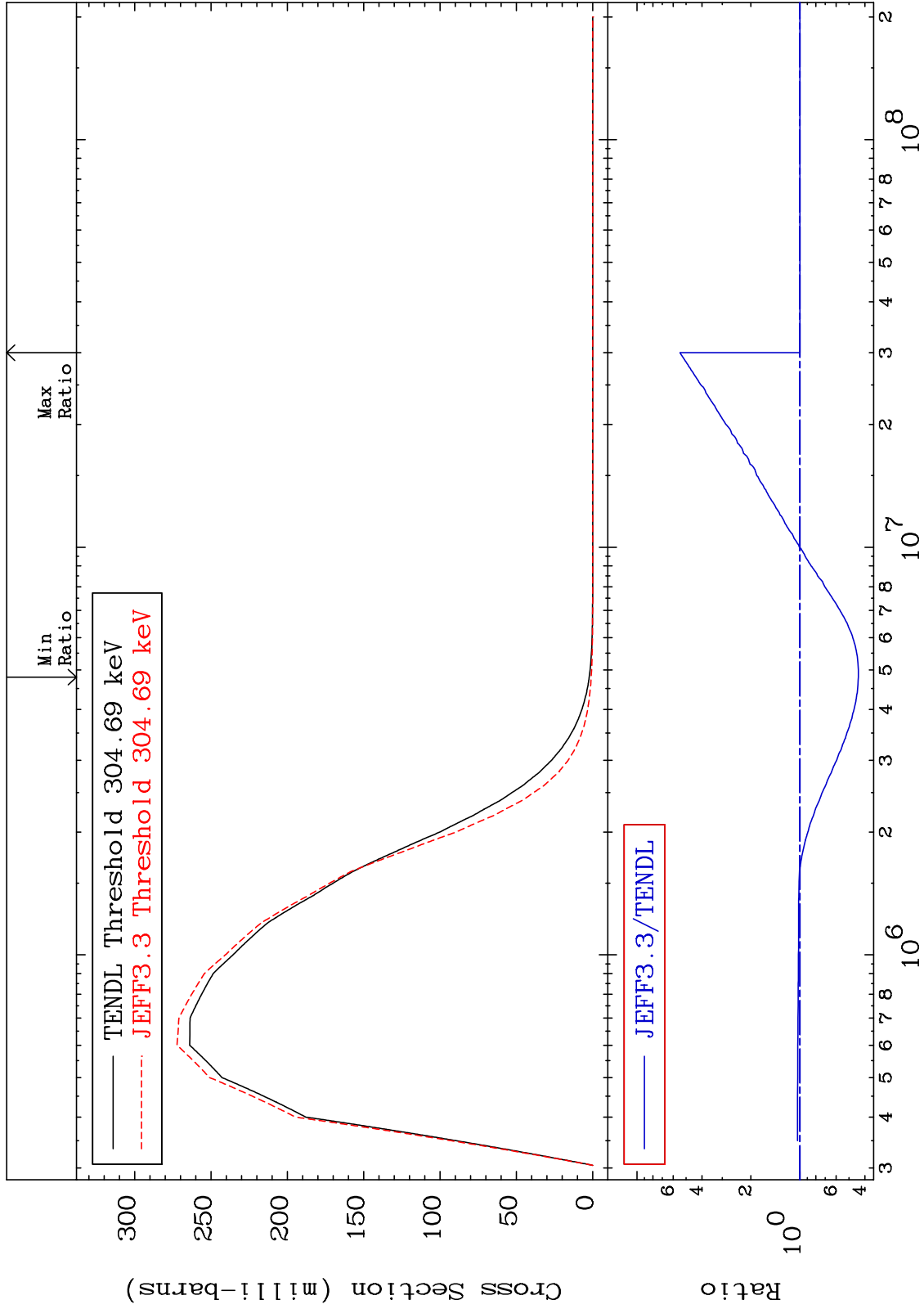
56-Ba-133
-56.33 To 444.4 %



MAT 5634

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

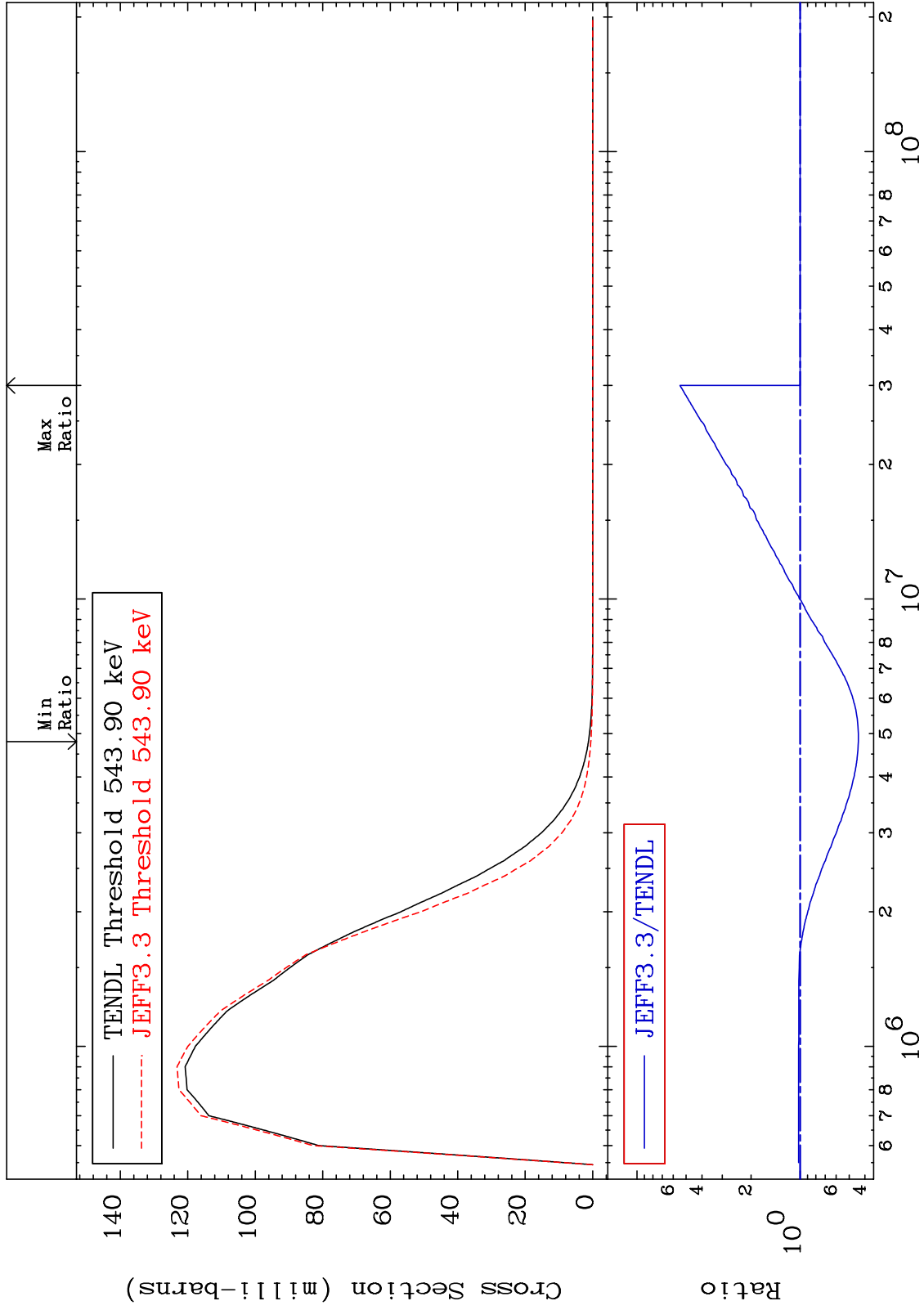
56-Ba-133
-56.22 To 444.8 %



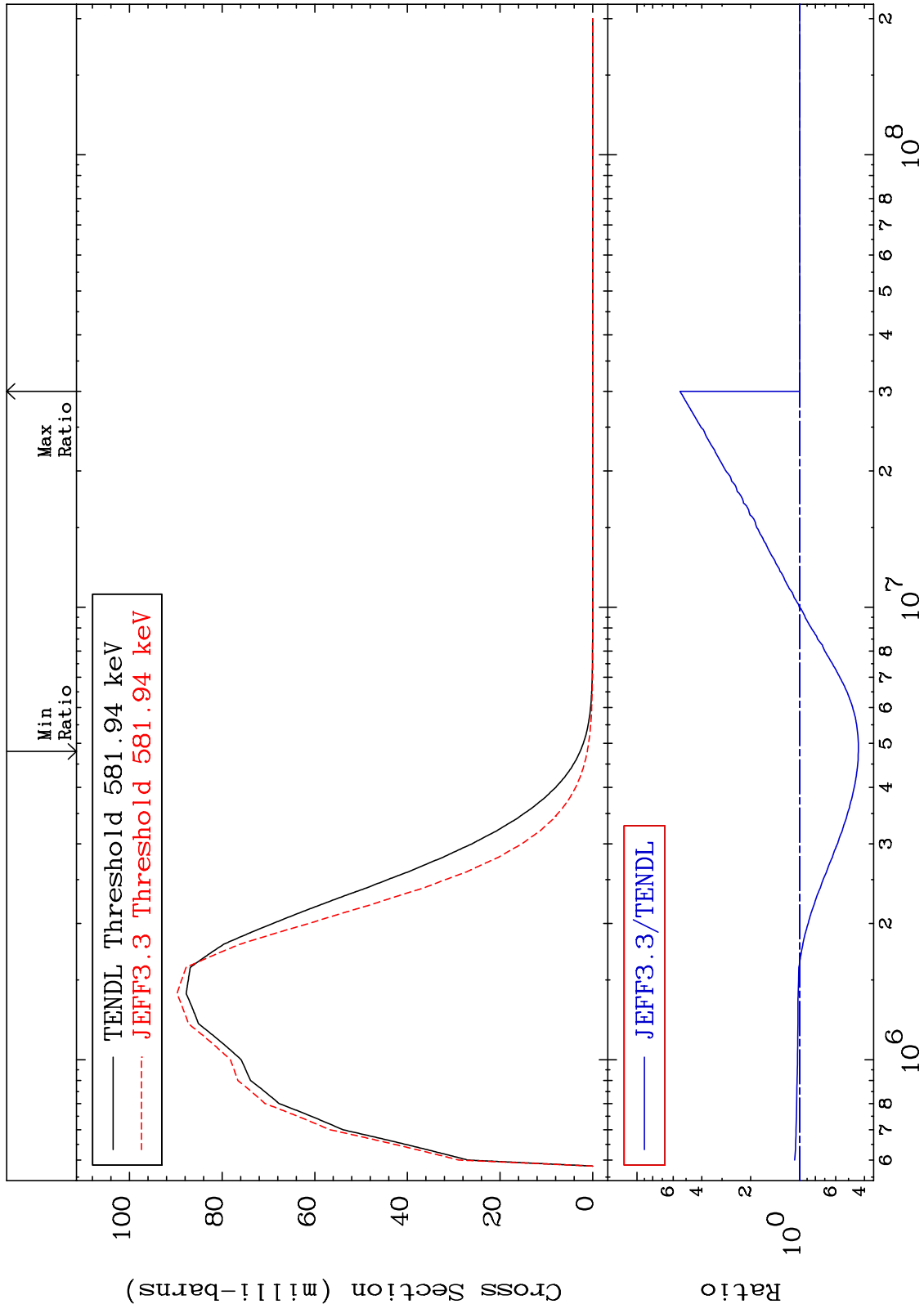
MAT 5634

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

56-Ba-133
-56.15 To 444.9 %



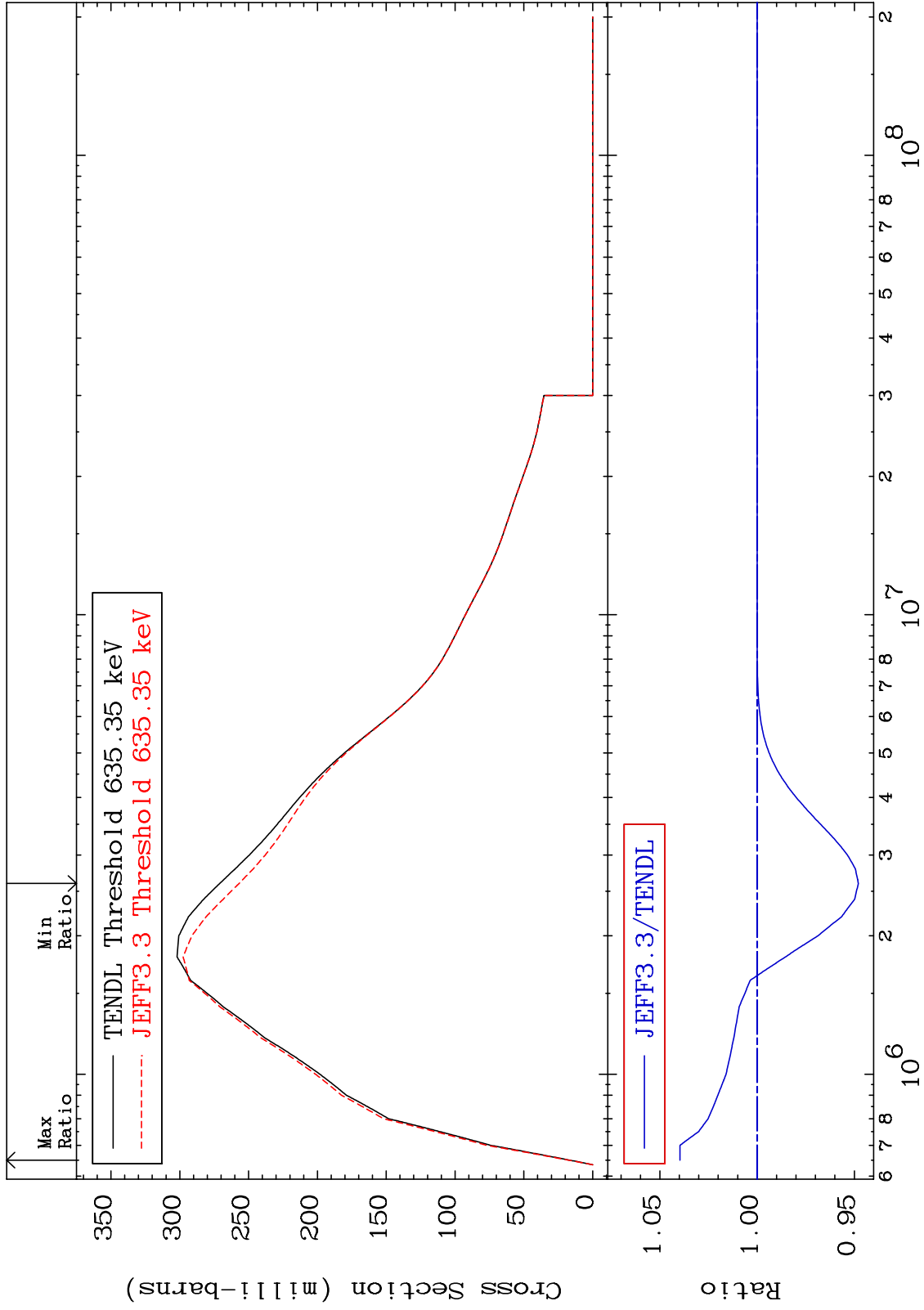
MAT 5634 MT= 56 (n,n') Level Cross Section 56-Ba-133 -56.47 To 444.0 %



MAT 5634

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

56-Ba-133
-5.208 To 3.964 %



26

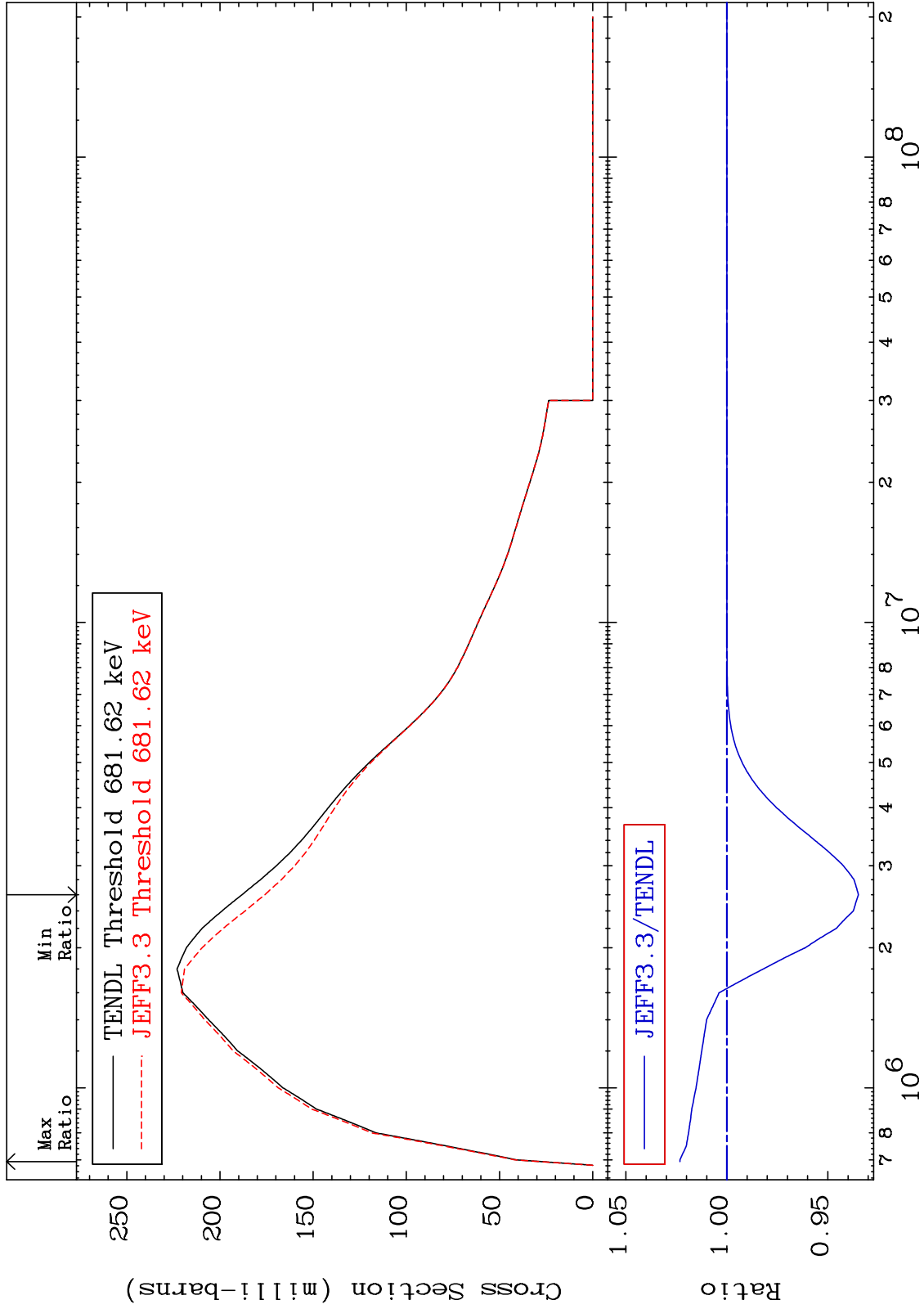
Incident Energy (eV)

56-Ba-133

MAT 5634

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

56-Ba-133
-6.514 To 2.322 %



27

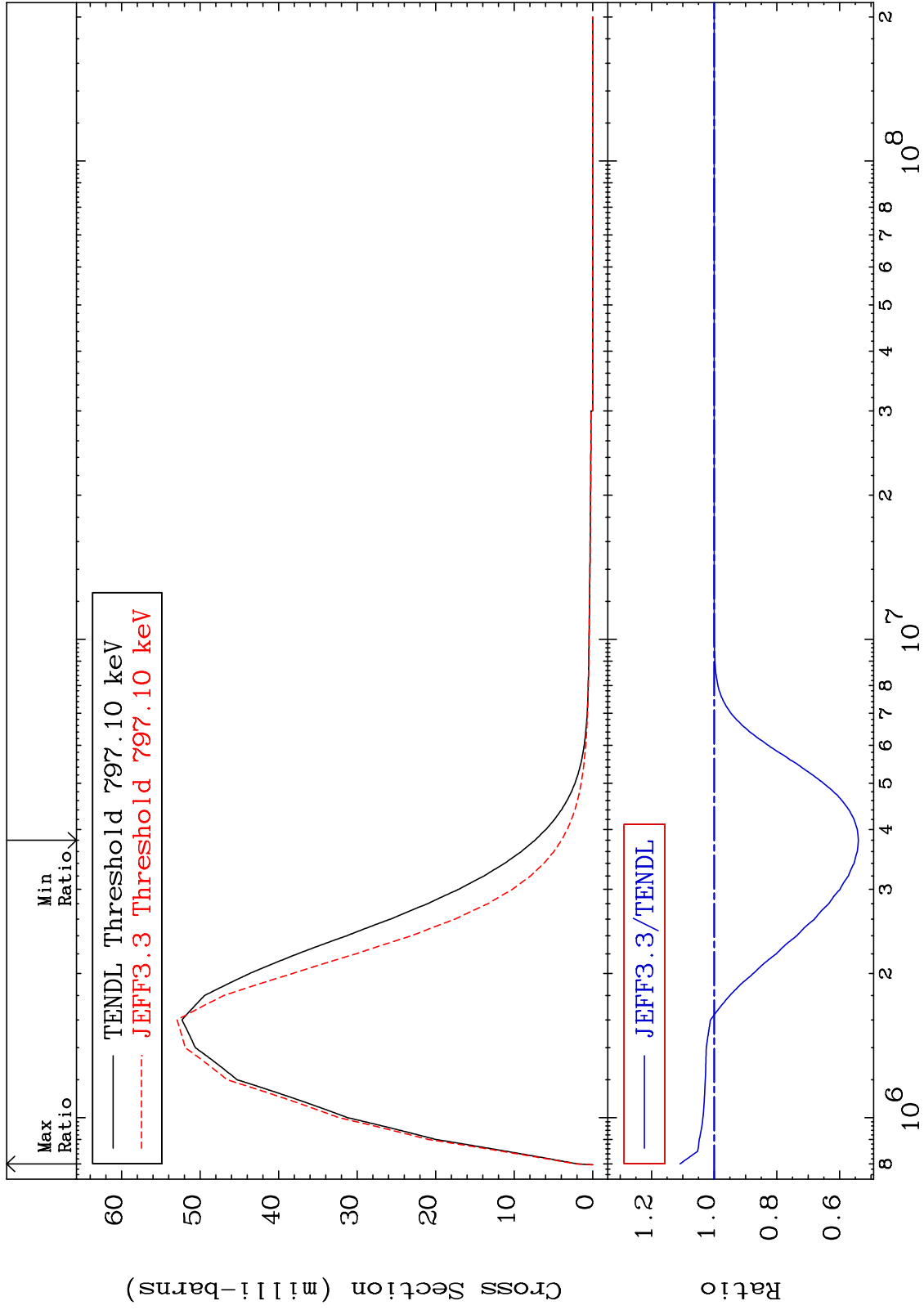
Incident Energy (eV)

56-Ba-133

MAT 5634

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

56-Ba-133
-46.01 To 10.90 %



28

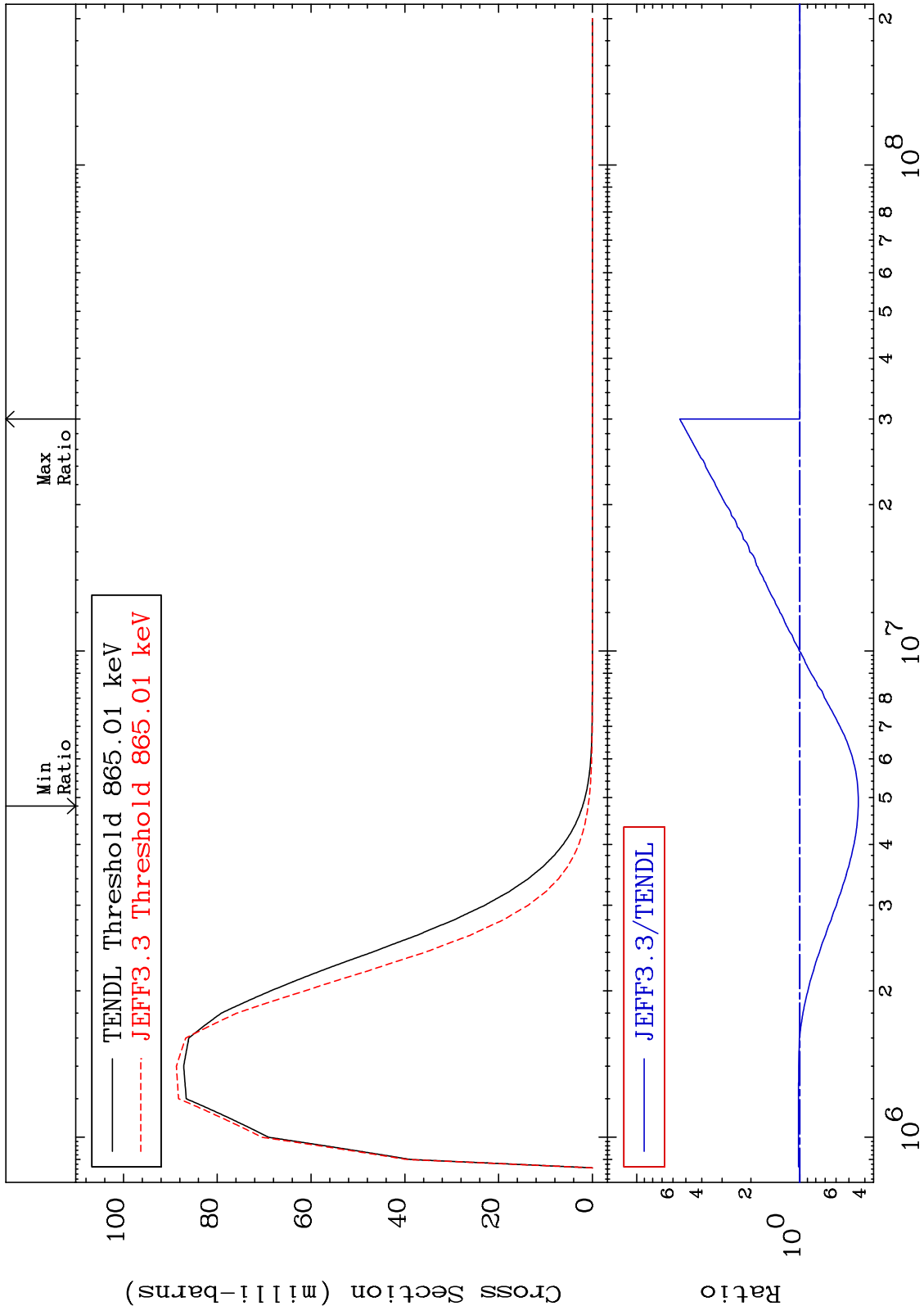
Incident Energy (eV)

56-Ba-133

MAT 5634

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

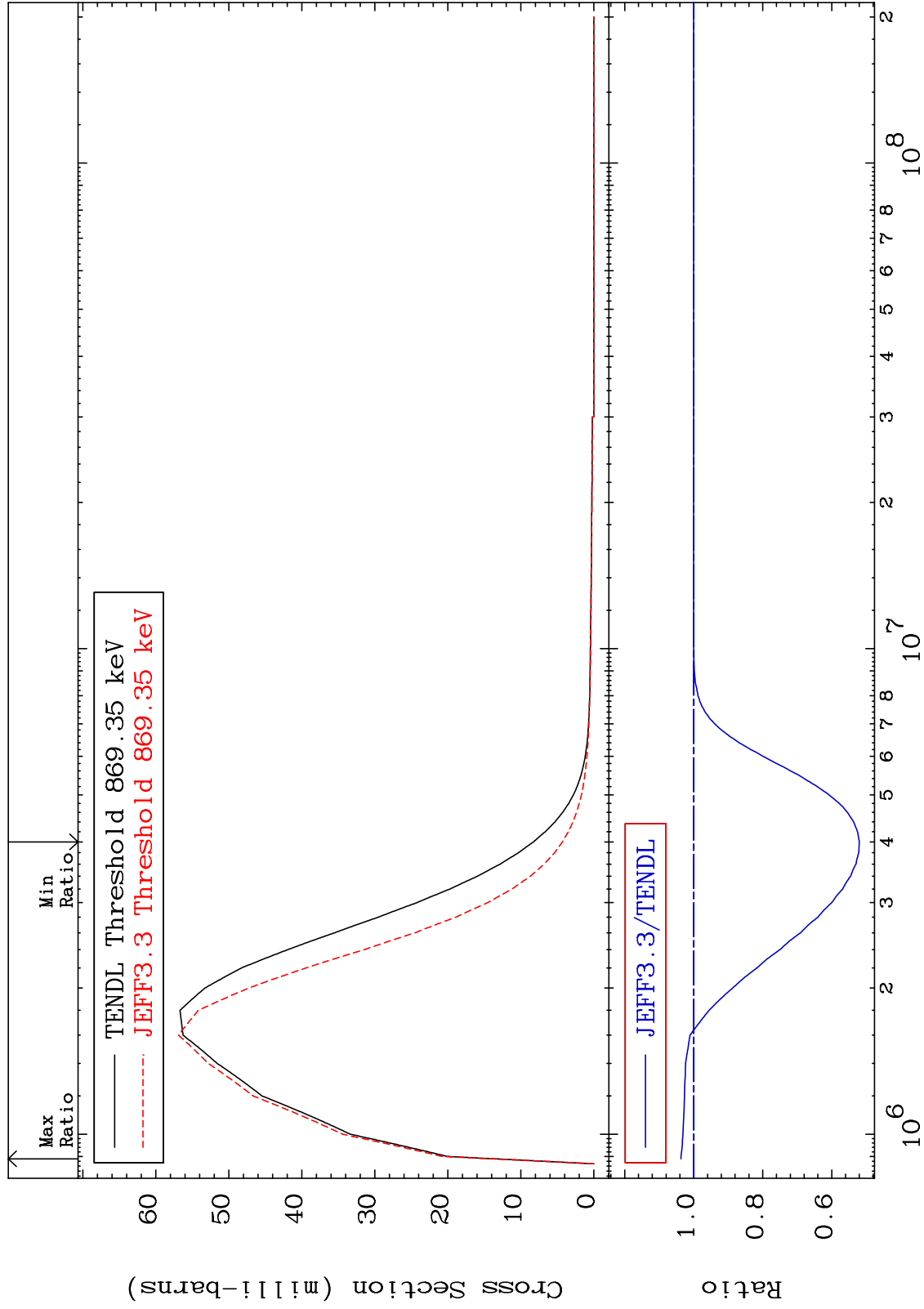
56-Ba-133
-56.19 To 444.9 %



MAT 5634

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

56-Ba-133
-47.99 To 3.669 %

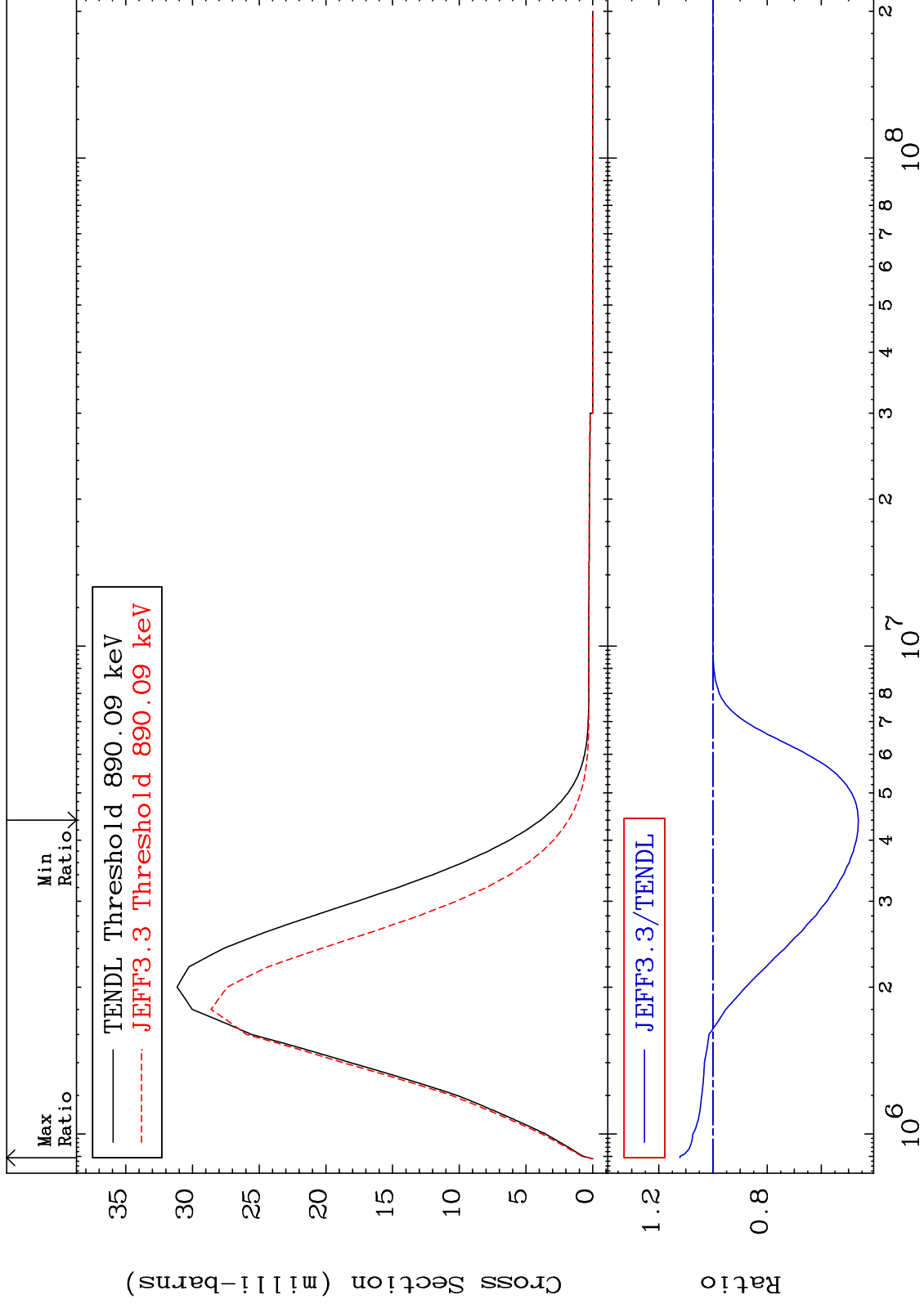


56-Ba-133

MAT 5634

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

56-Ba-133
-53.66 To 12.15 %



31

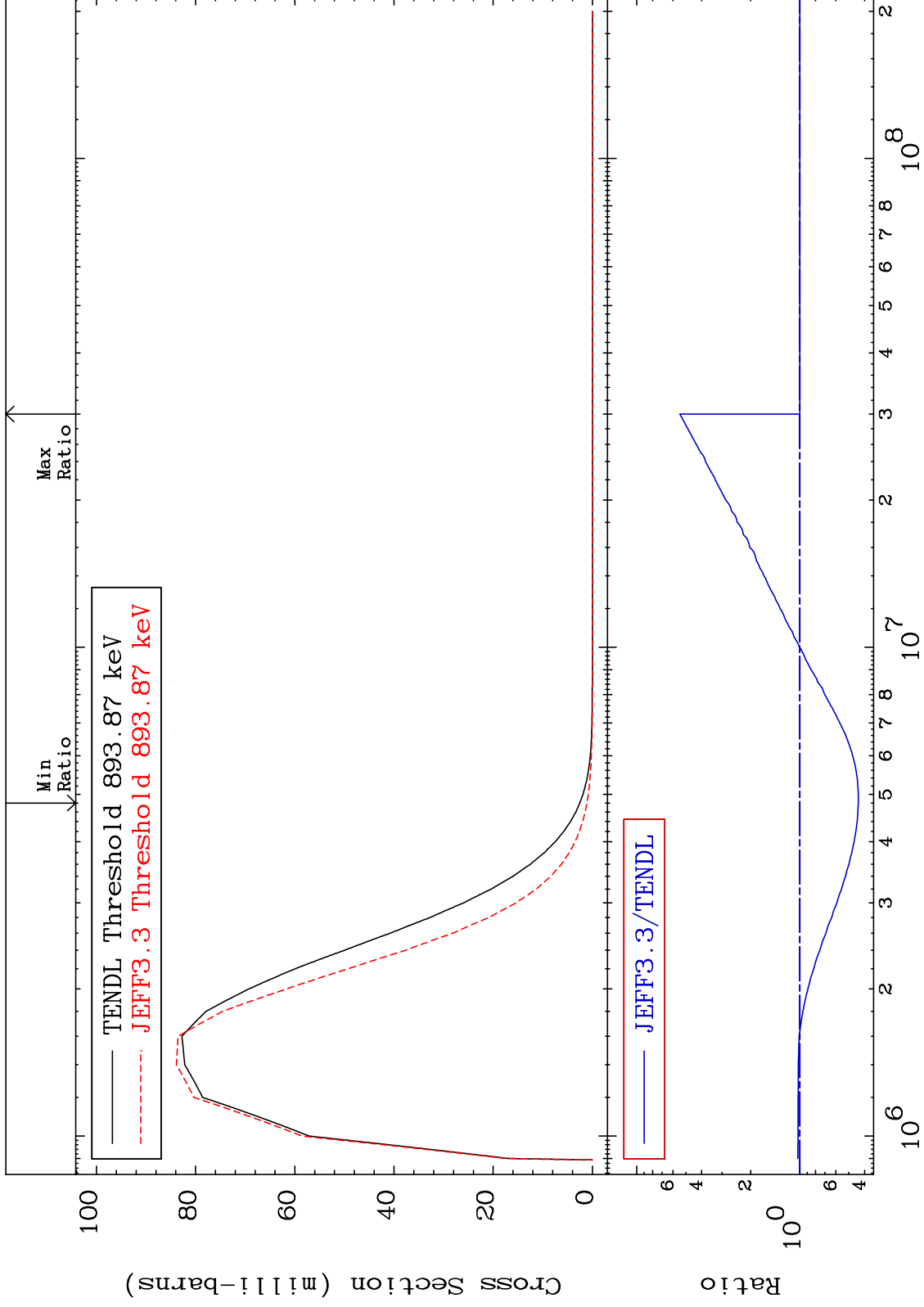
Incident Energy (eV)

56-Ba-133

MAT 5634

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

56-Ba-133
-56.32 To 444.5 %



32

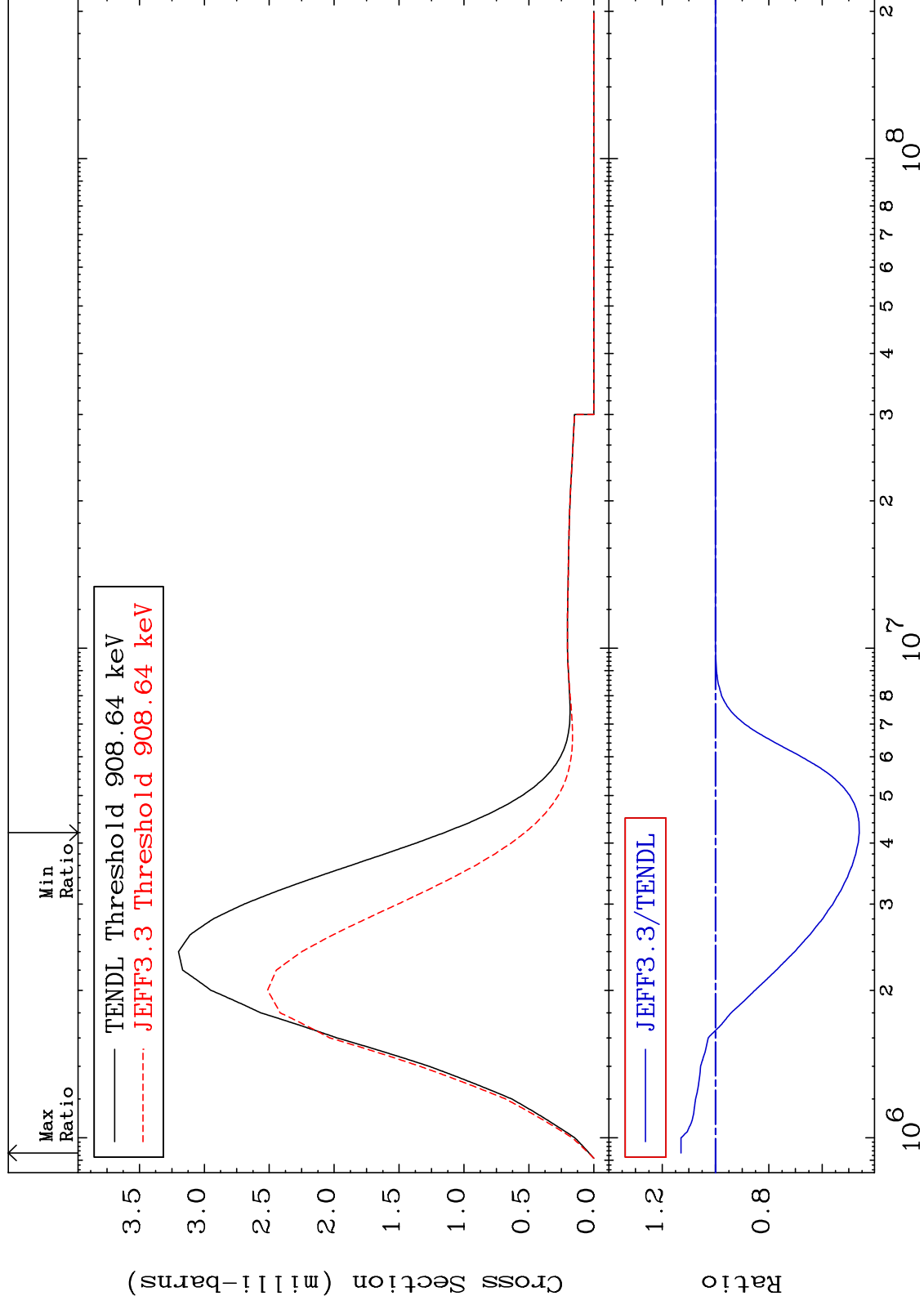
Incident Energy (eV)

56-Ba-133

MAT 5634

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

56-Ba-133
-53.93 To 12.92 %



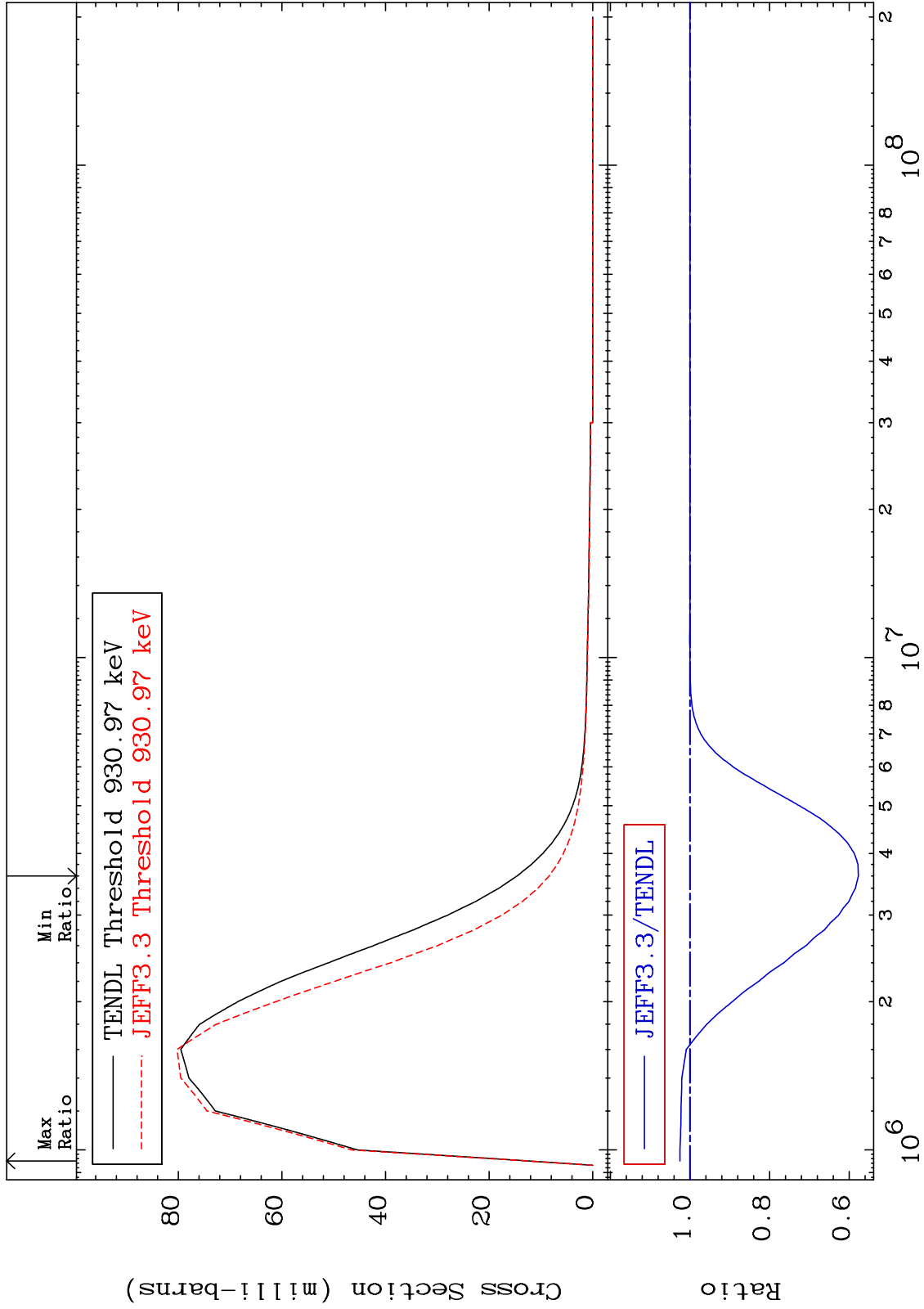
33

56-Ba-133

MAT 5634

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

56-Ba-133
-42.34 To 2.482 %



34

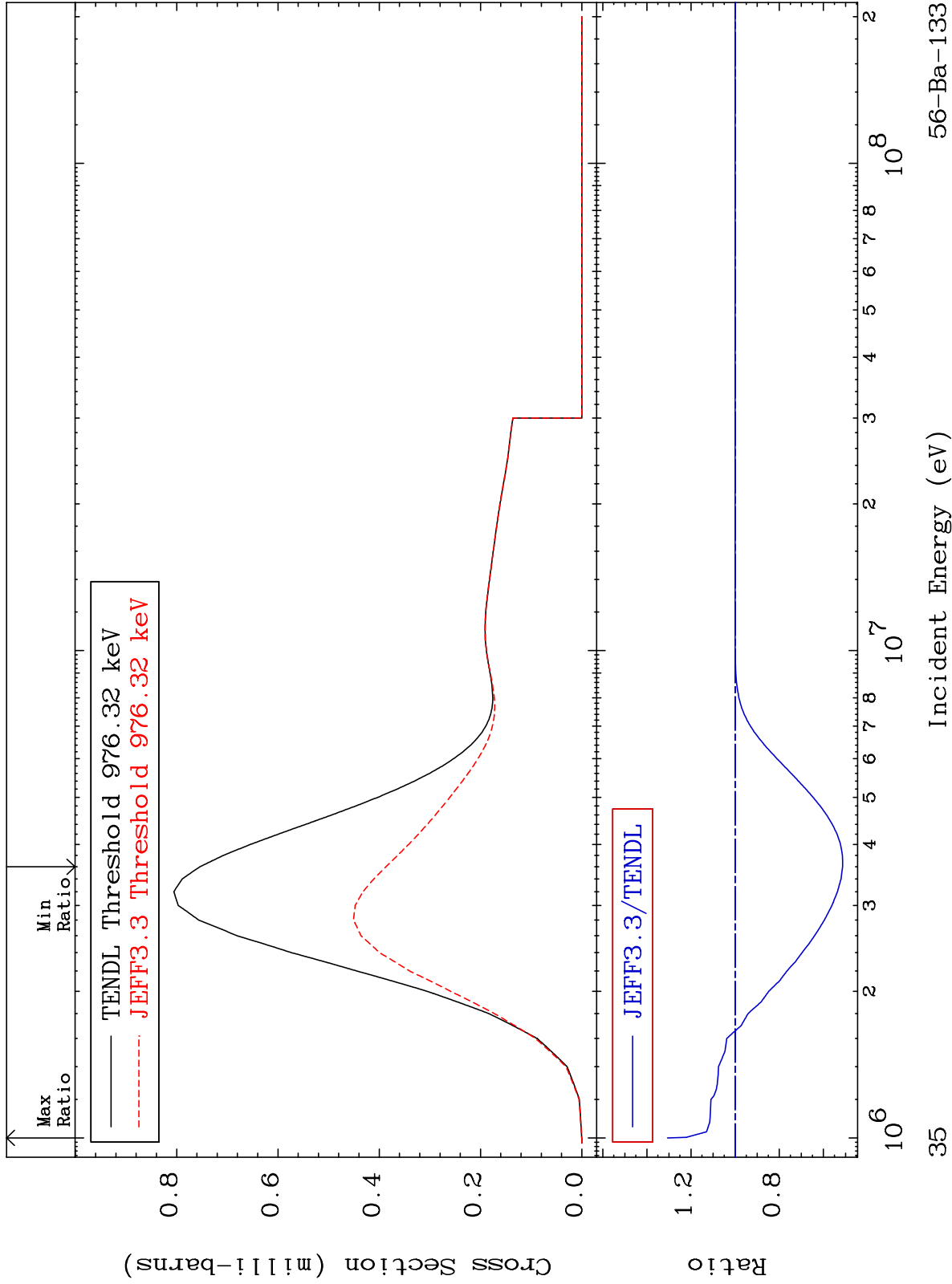
Incident Energy (eV)

56-Ba-133

MAT 5634

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

56-Ba-133
-48.71 To 30.63 %

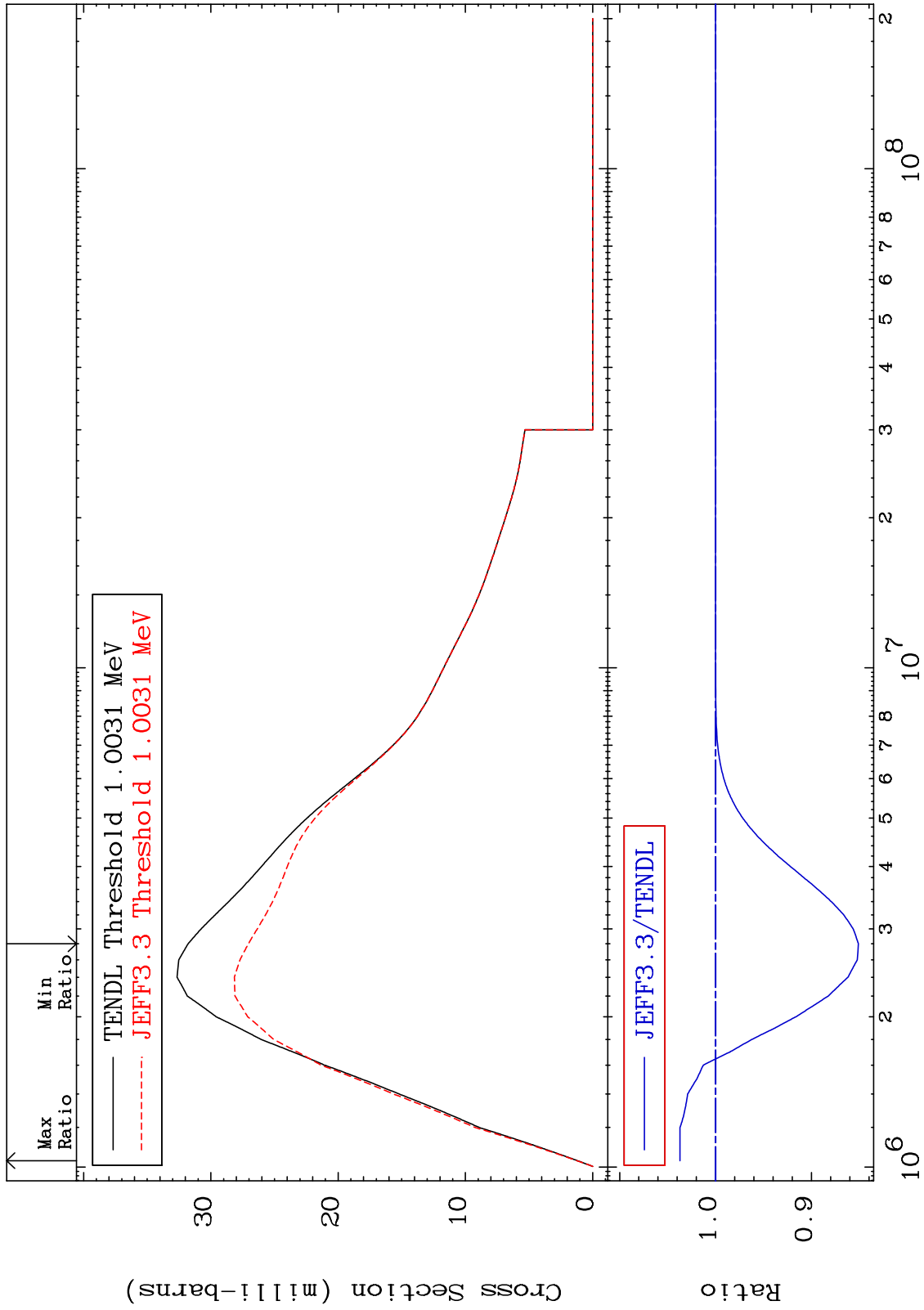


35

MAT 5634

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

56-Ba-133
-14.89 To 3.707 %



Incident Energy (eV)

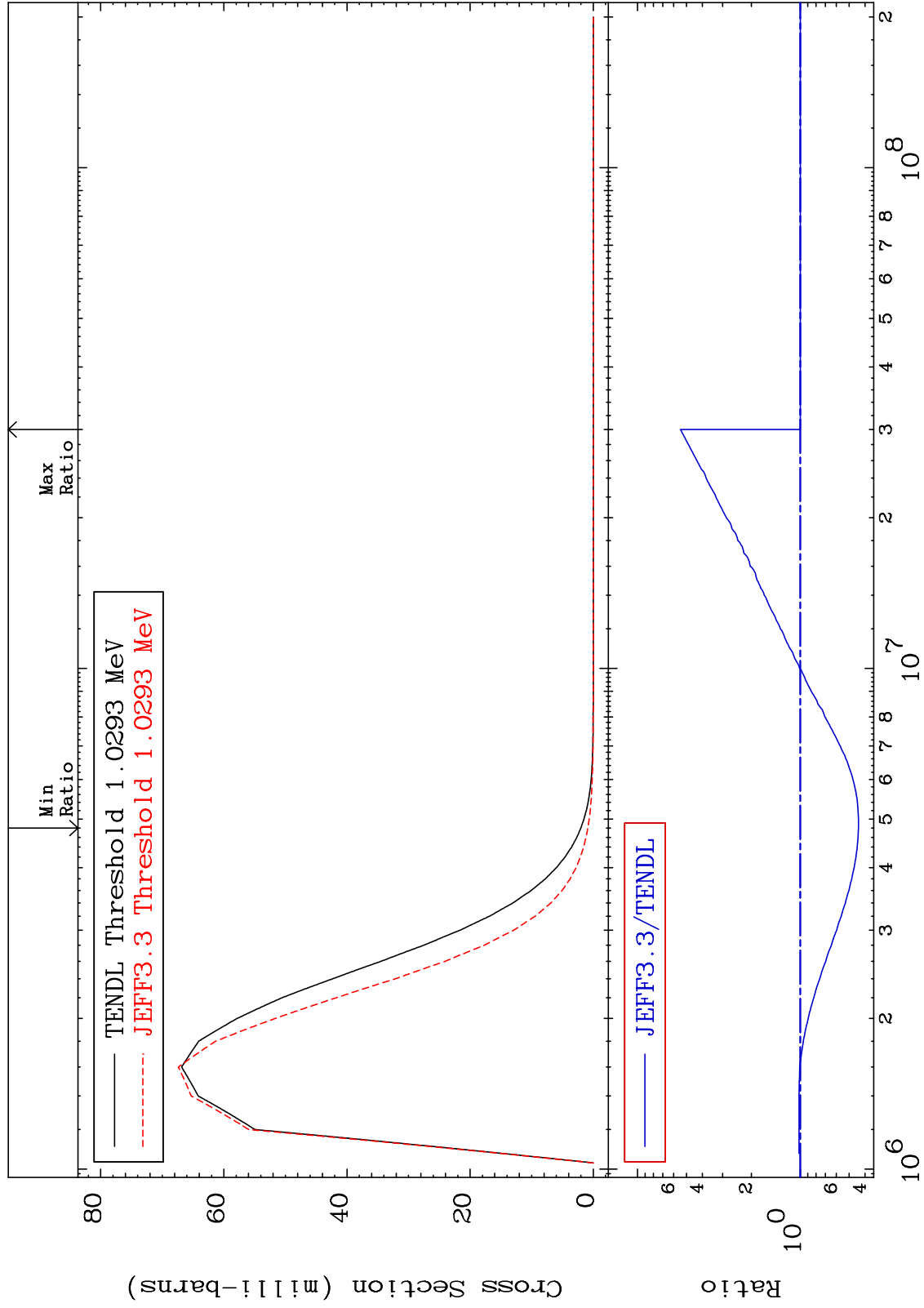
56-Ba-133

36

MAT 5634

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

56-Ba-133
-56.18 To 445.0 %



37

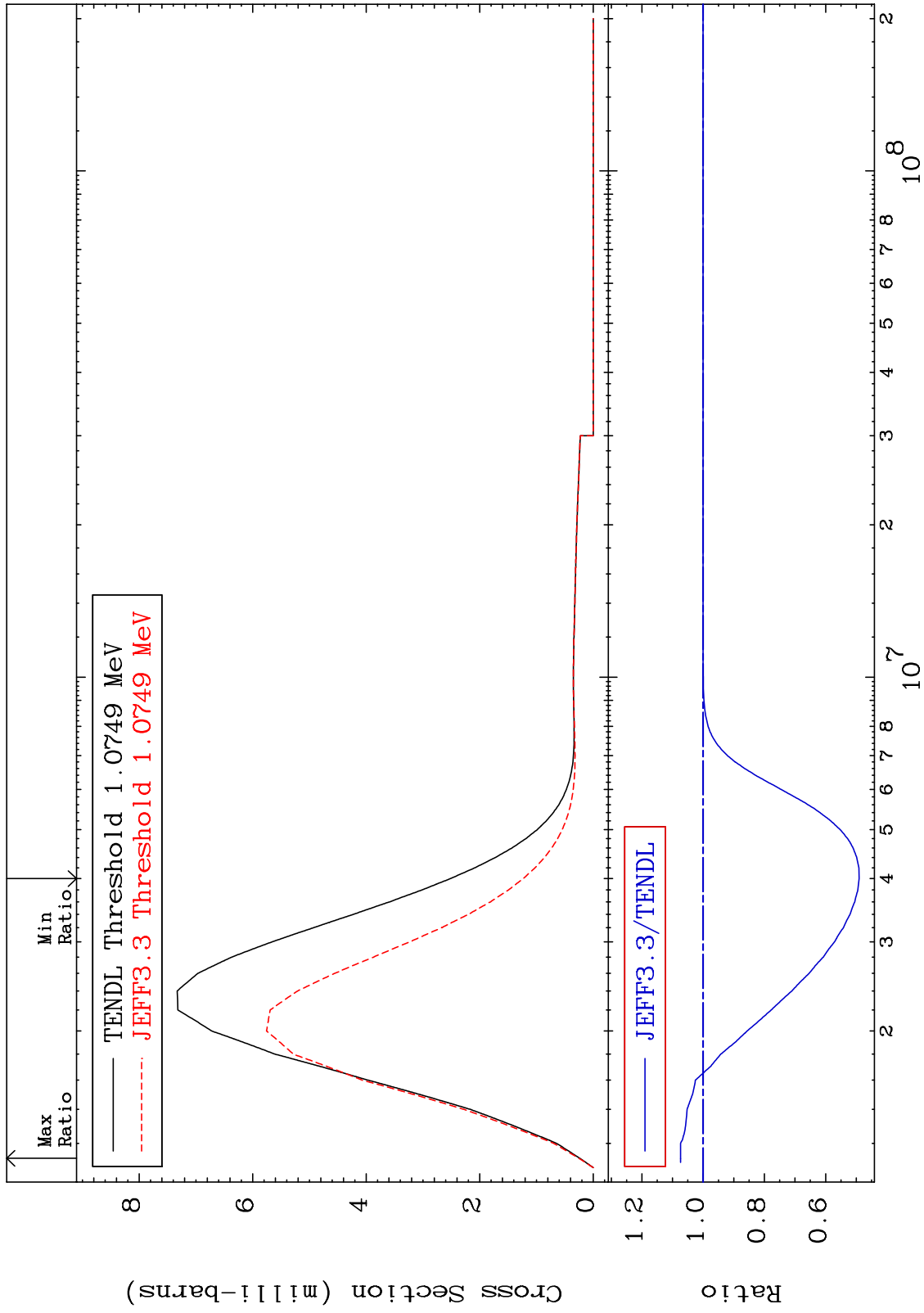
Incident Energy (eV)

56-Ba-133

MAT 5634

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

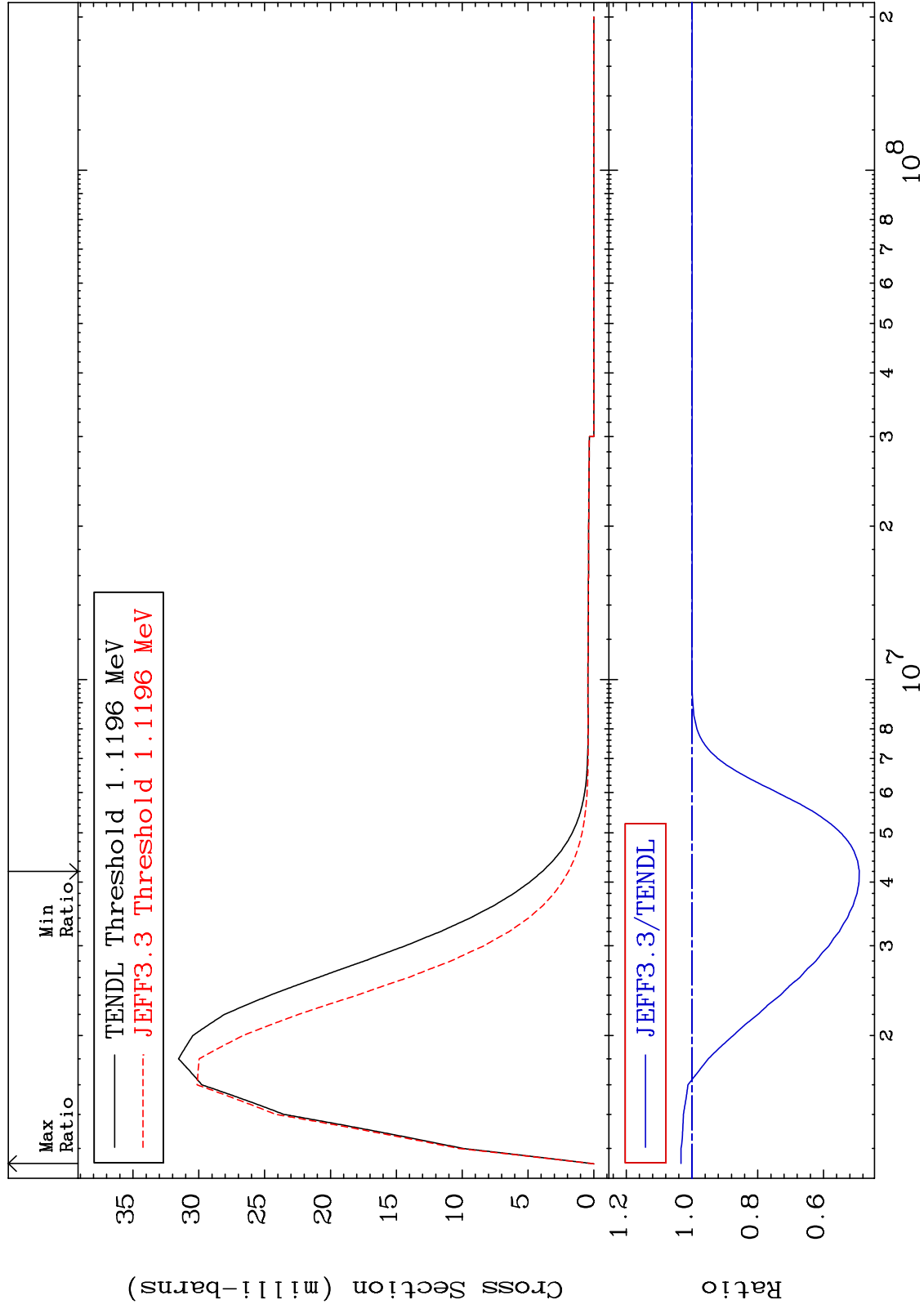
56-Ba-133
-50.95 To 7.355 %



MAT 5634

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

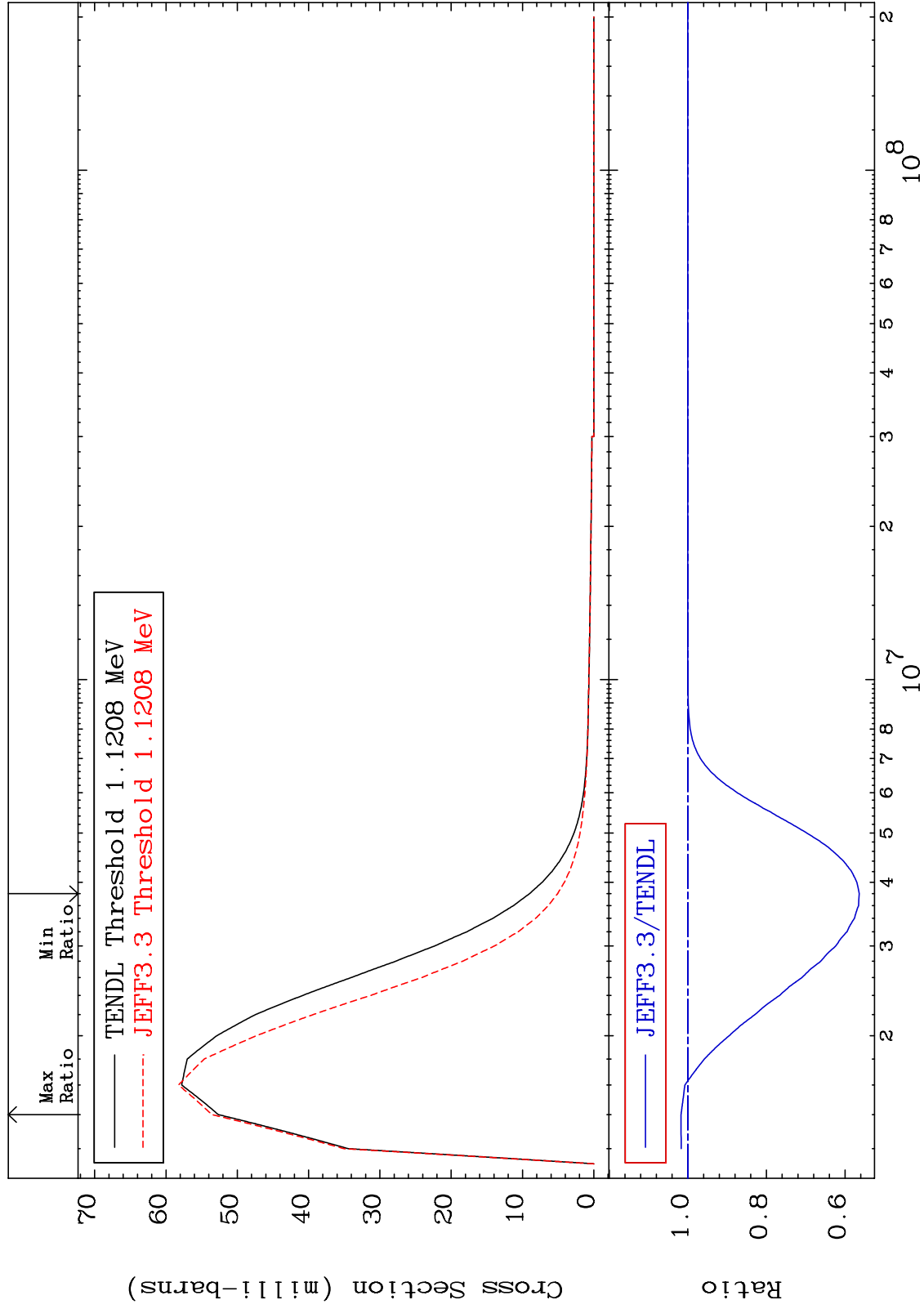
56-Ba-133
-50.89 To 3.333 %



MAT 5634

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

56-Ba-133
-43.62 To 1.724 %



40

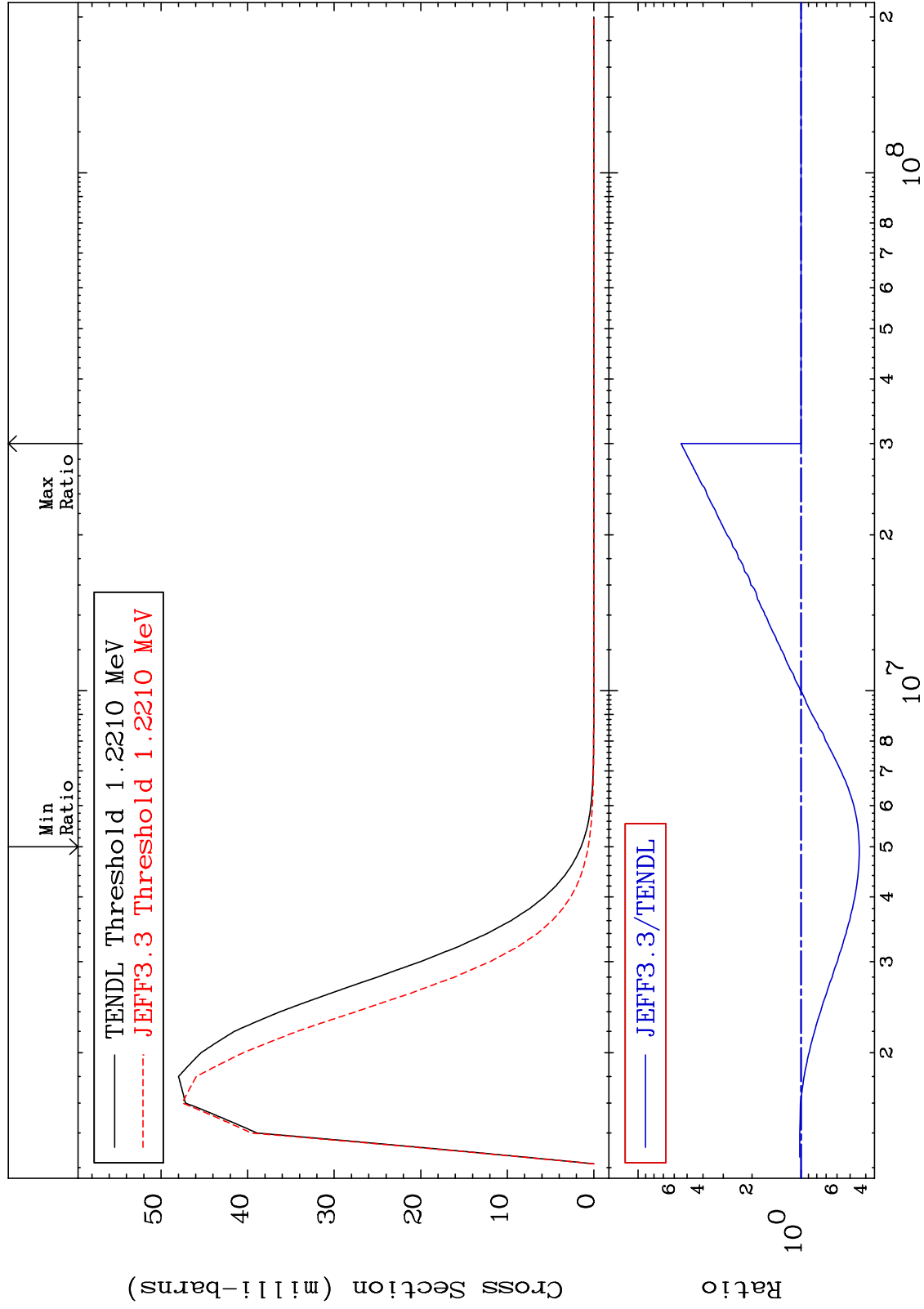
Incident Energy (eV)

56-Ba-133

MAT 5634

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

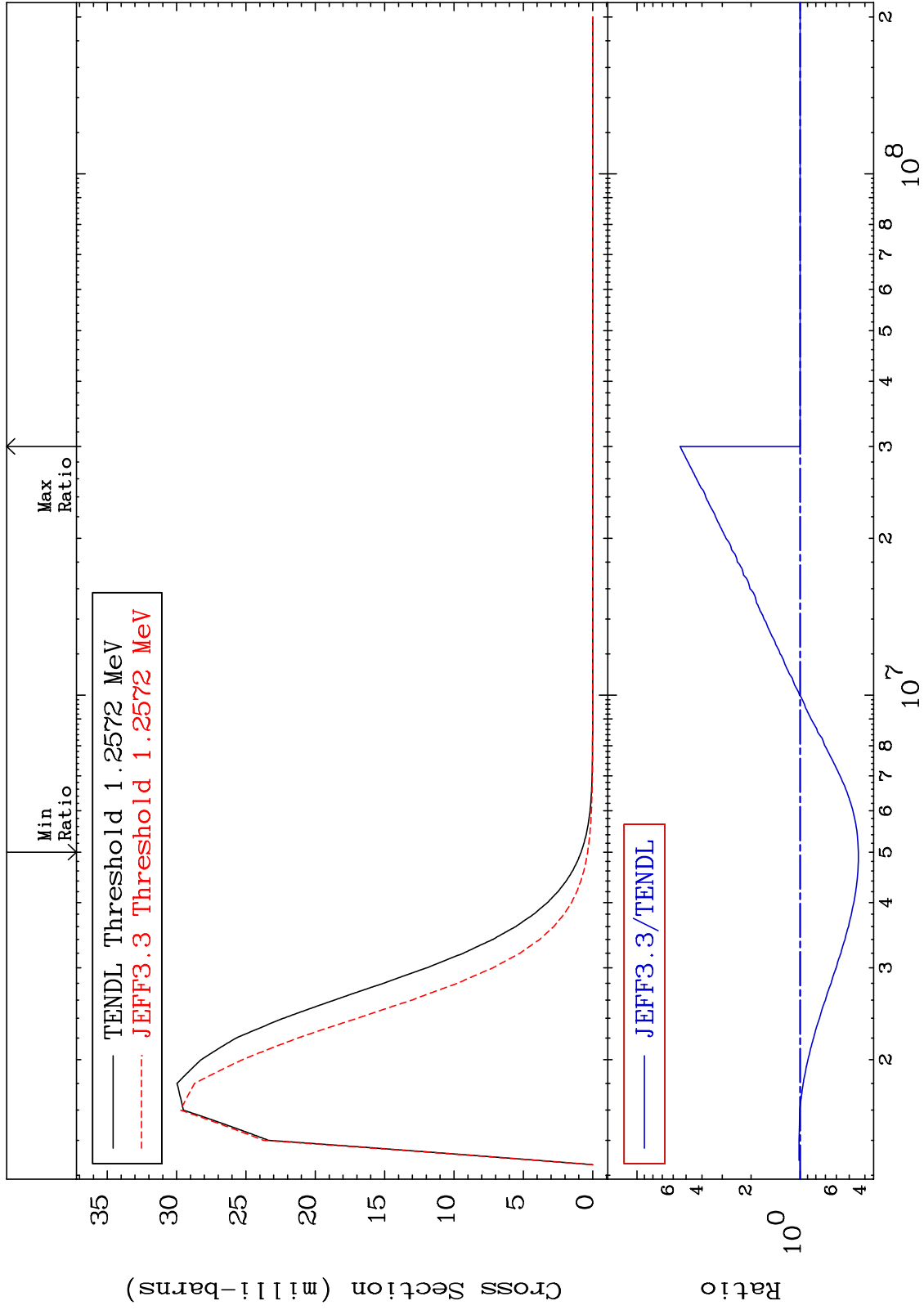
56-Ba-133
-56.16 To 445.0 %



MAT 5634

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

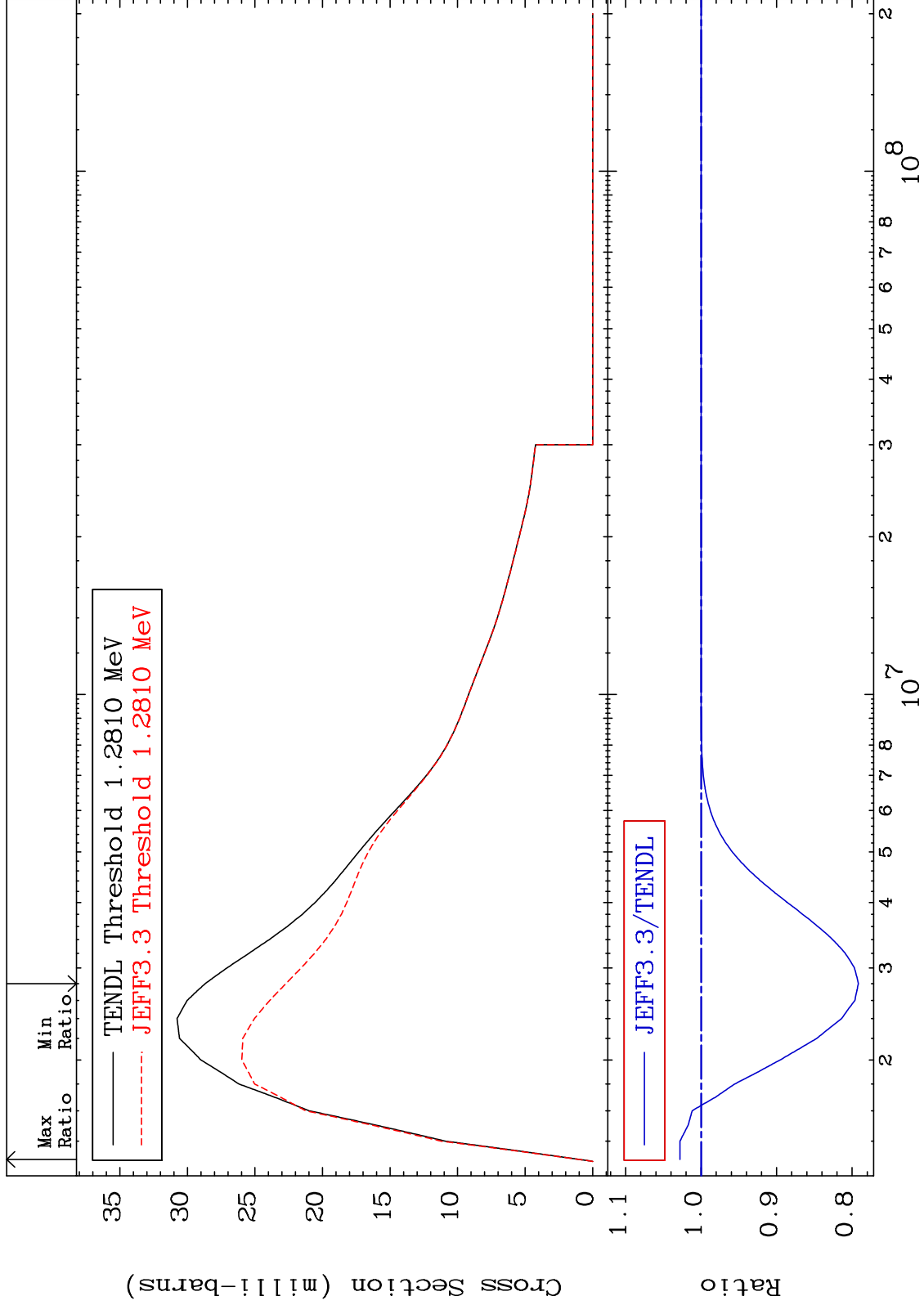
56-Ba-133
-56.09 To 445.1 %



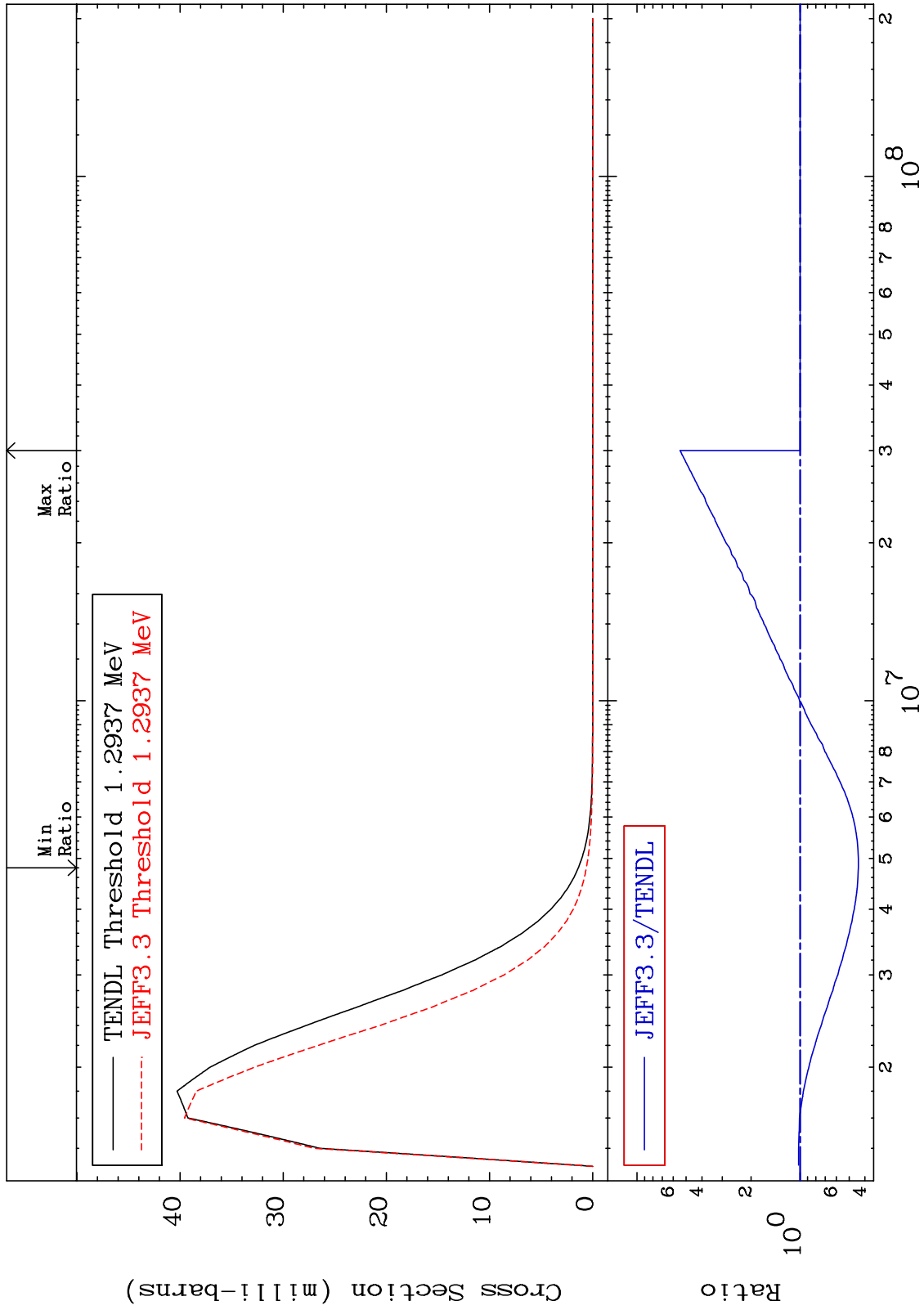
MAT 5634

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

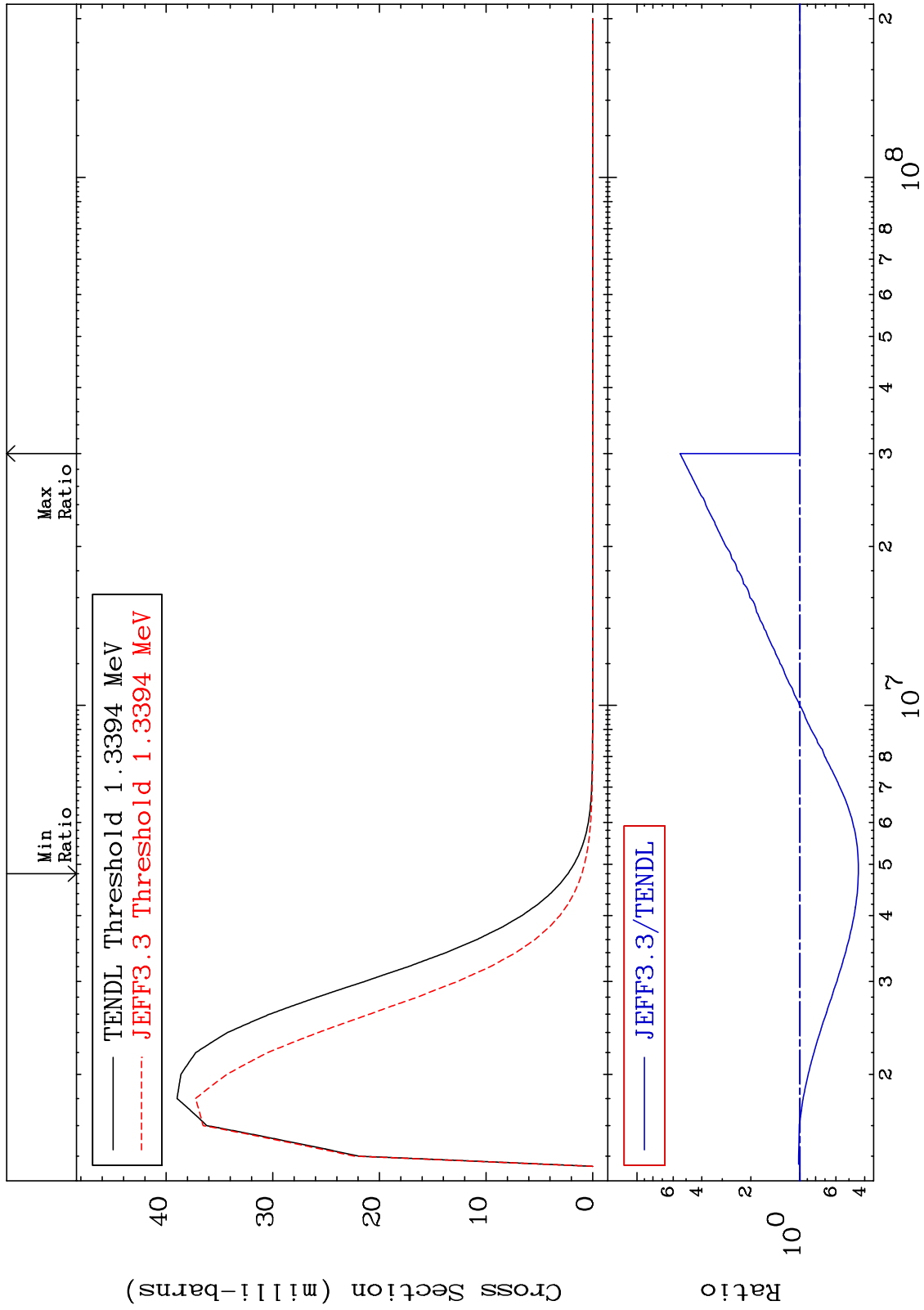
56-Ba-133
-20.84 To 2.801 %



MAT 5634 MT= 75 (n,n') Level Cross Section 56-Ba-133 -56.14 To 445.0 %



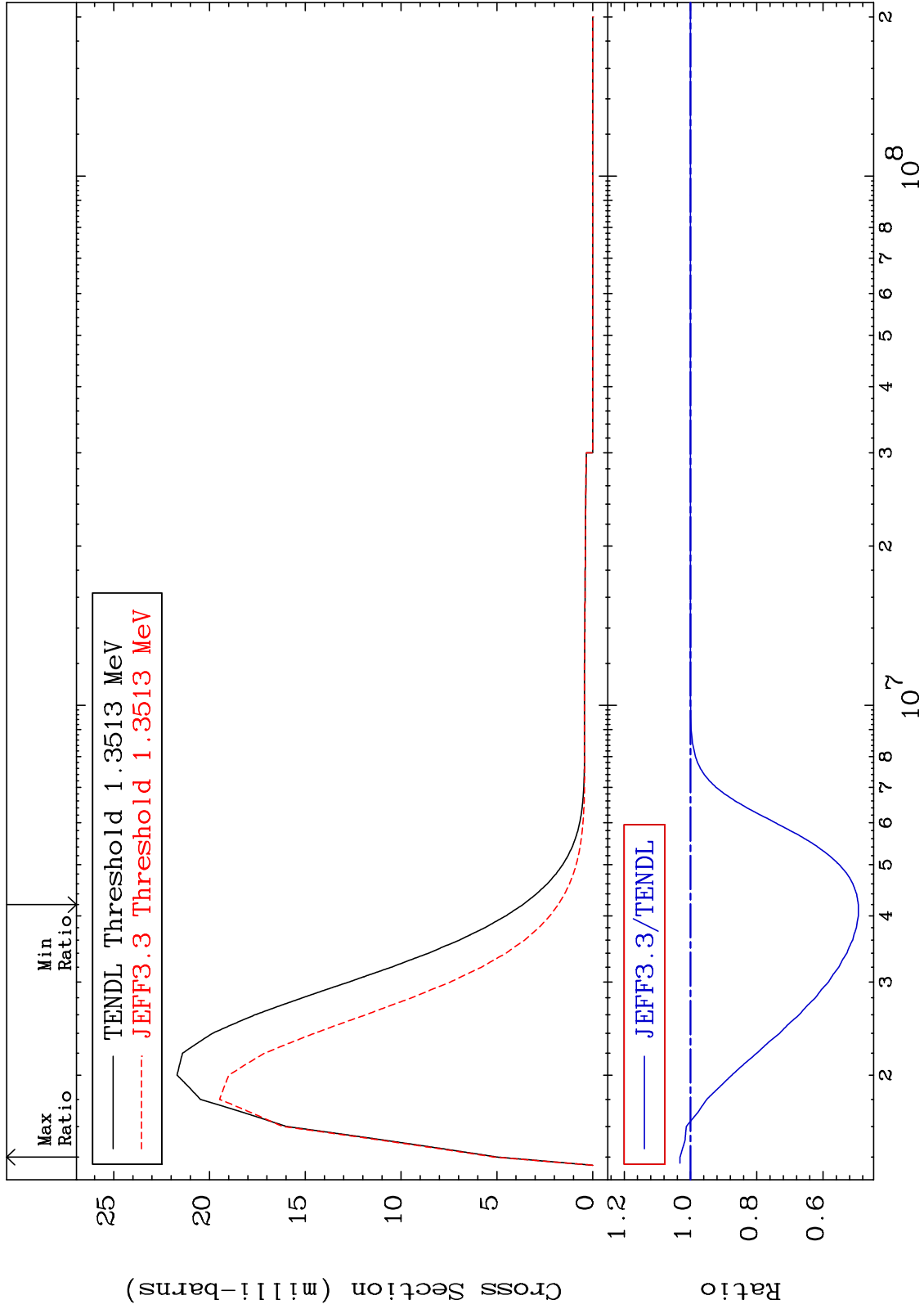
MAT 5634 MT= 76 (n,n') Level Cross Section 56-Ba-133 -56.30 To 444.6 %



MAT 5634

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

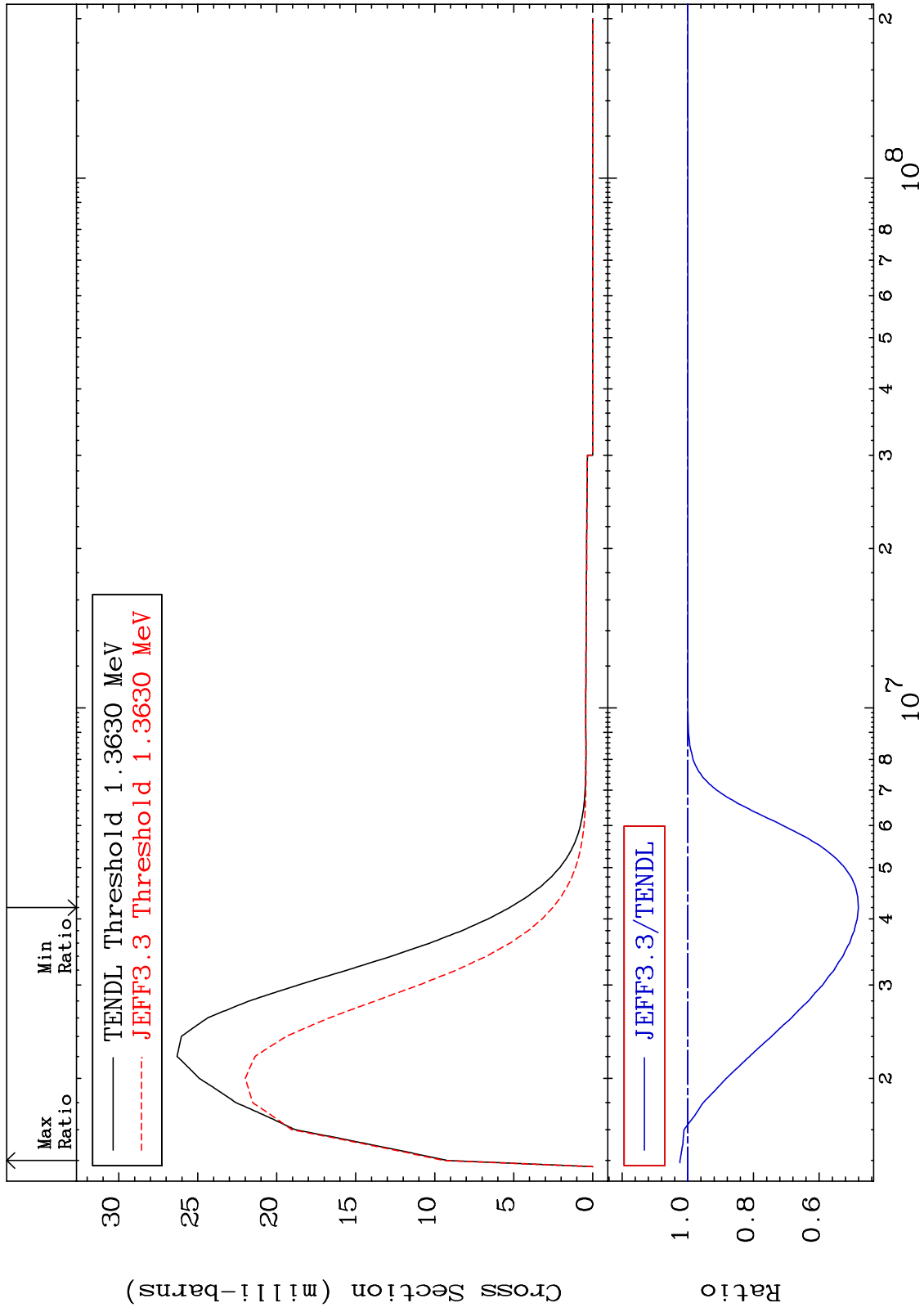
56-Ba-133
-50.67 To 3.169 %



MAT 5634

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

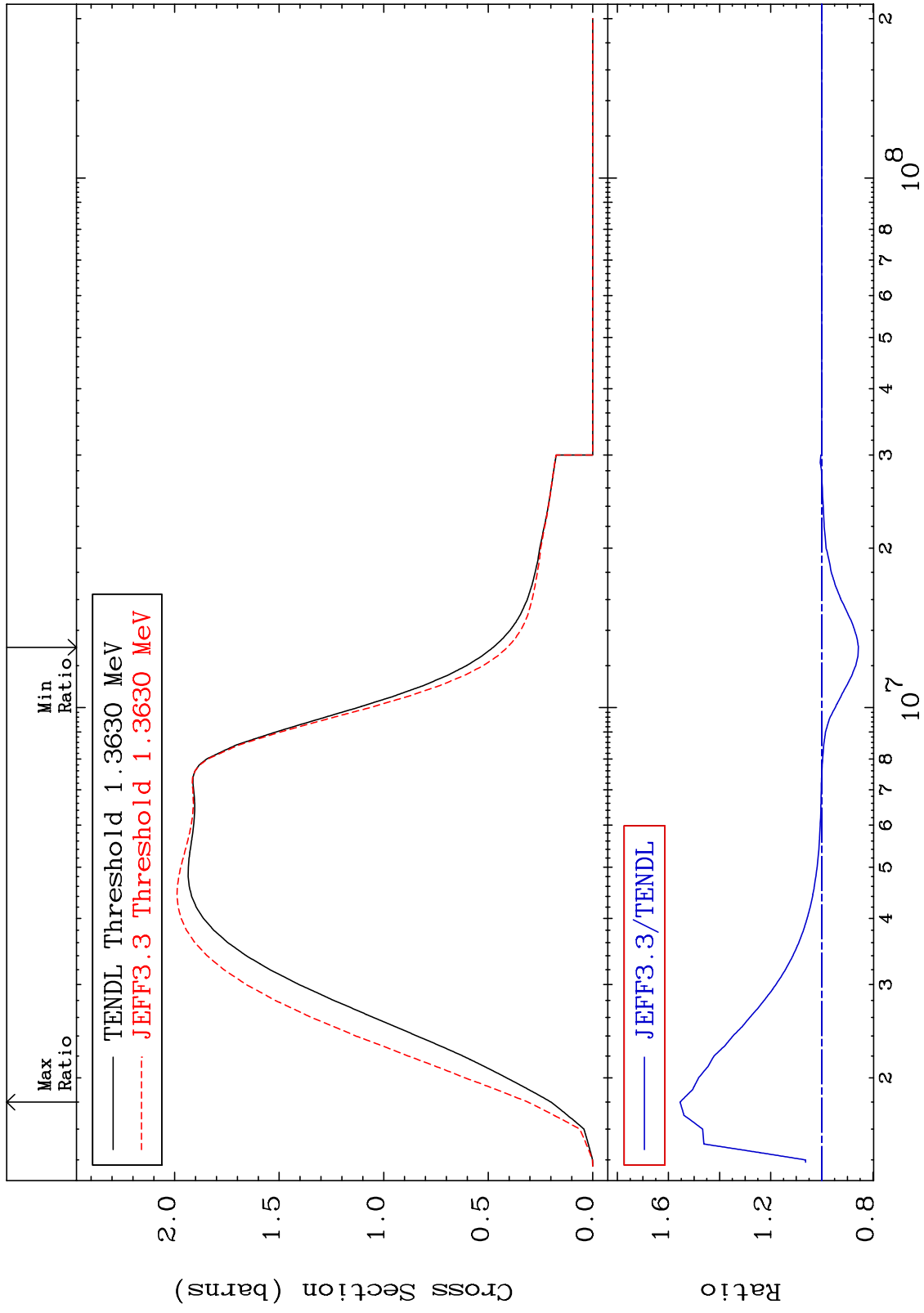
56-Ba-133
-51.94 To 2.380 %



MAT 5634

(n, n') Continuum
Cross Section

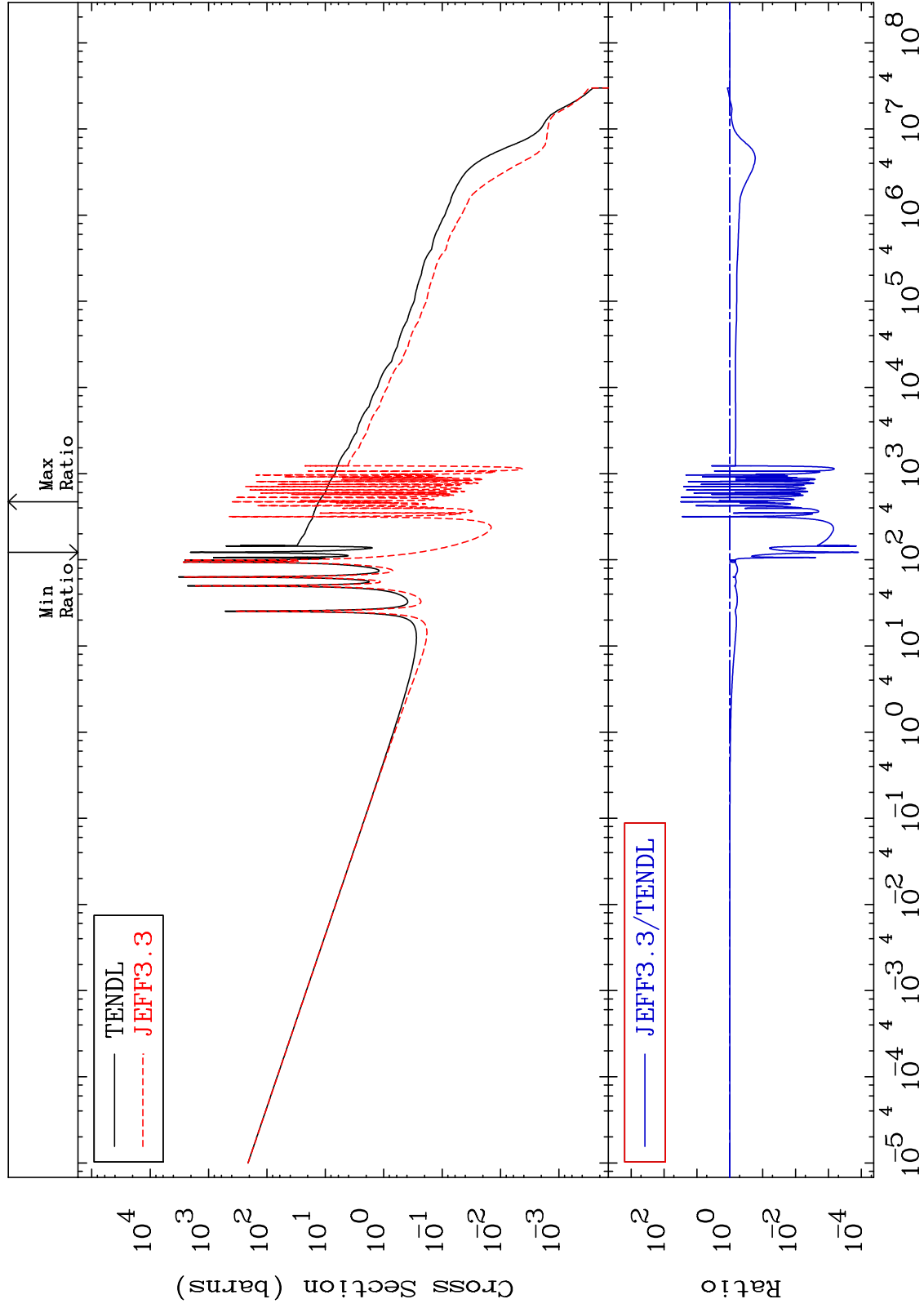
56-Ba-133
-14.31 To 55.48 %



MAT 5634

(n, γ)
Cross Section

56-Ba-133
-99.99 To 3059. %



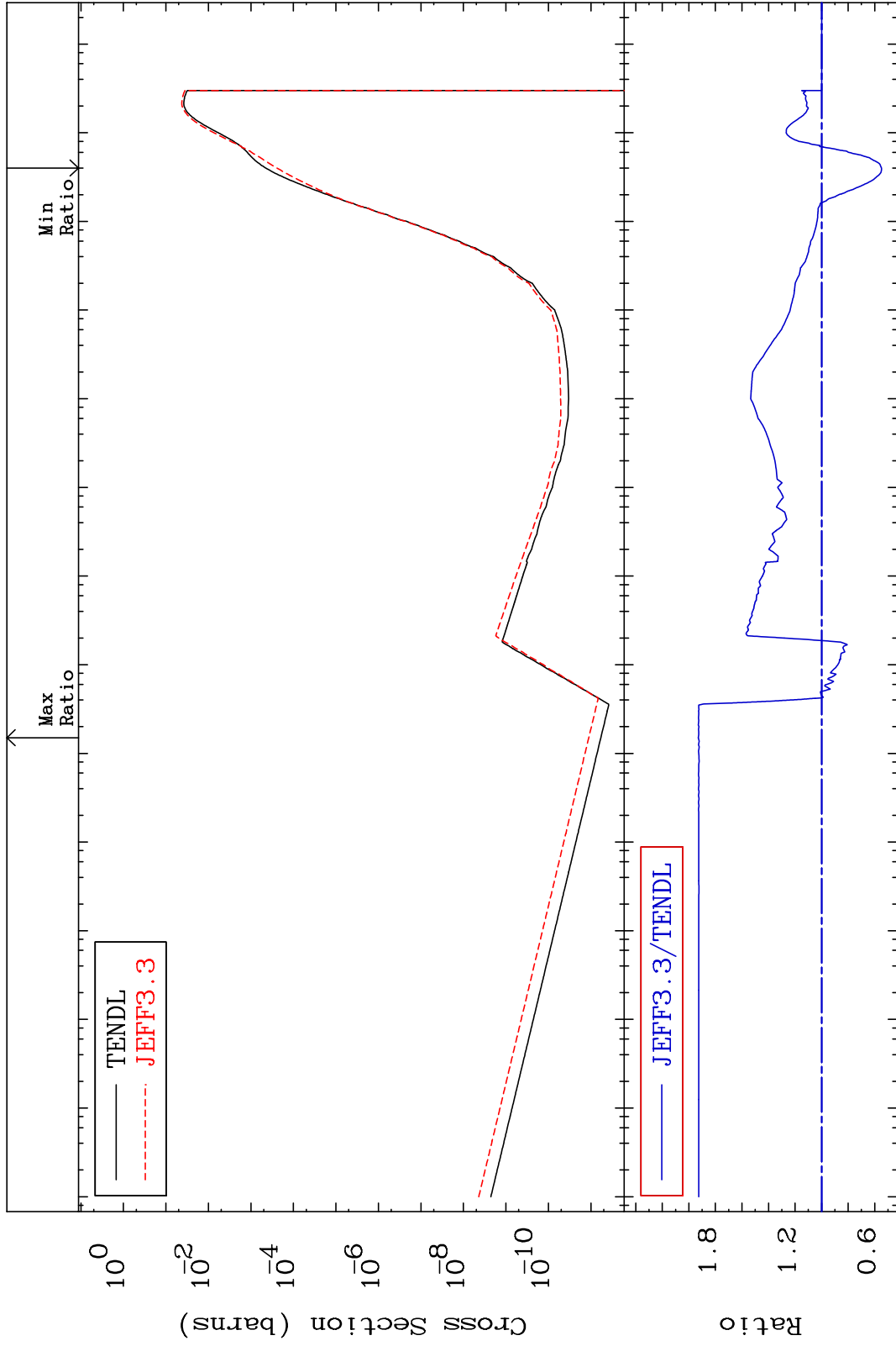
MAT 5634

(n, p)

56-Ba-133

Cross Section

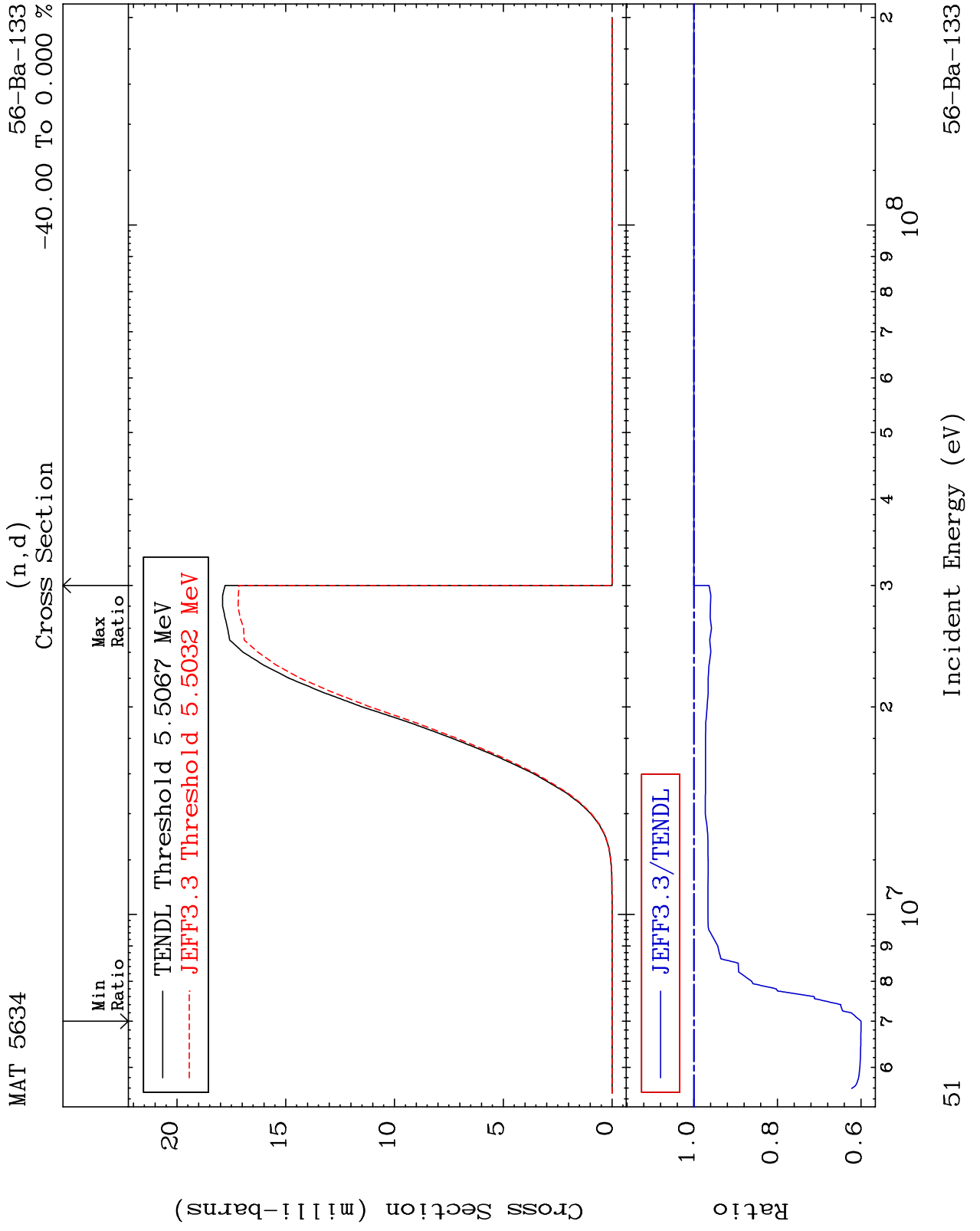
-45.14 To 92.85 %



Incident Energy (eV)

50

56-Ba-133



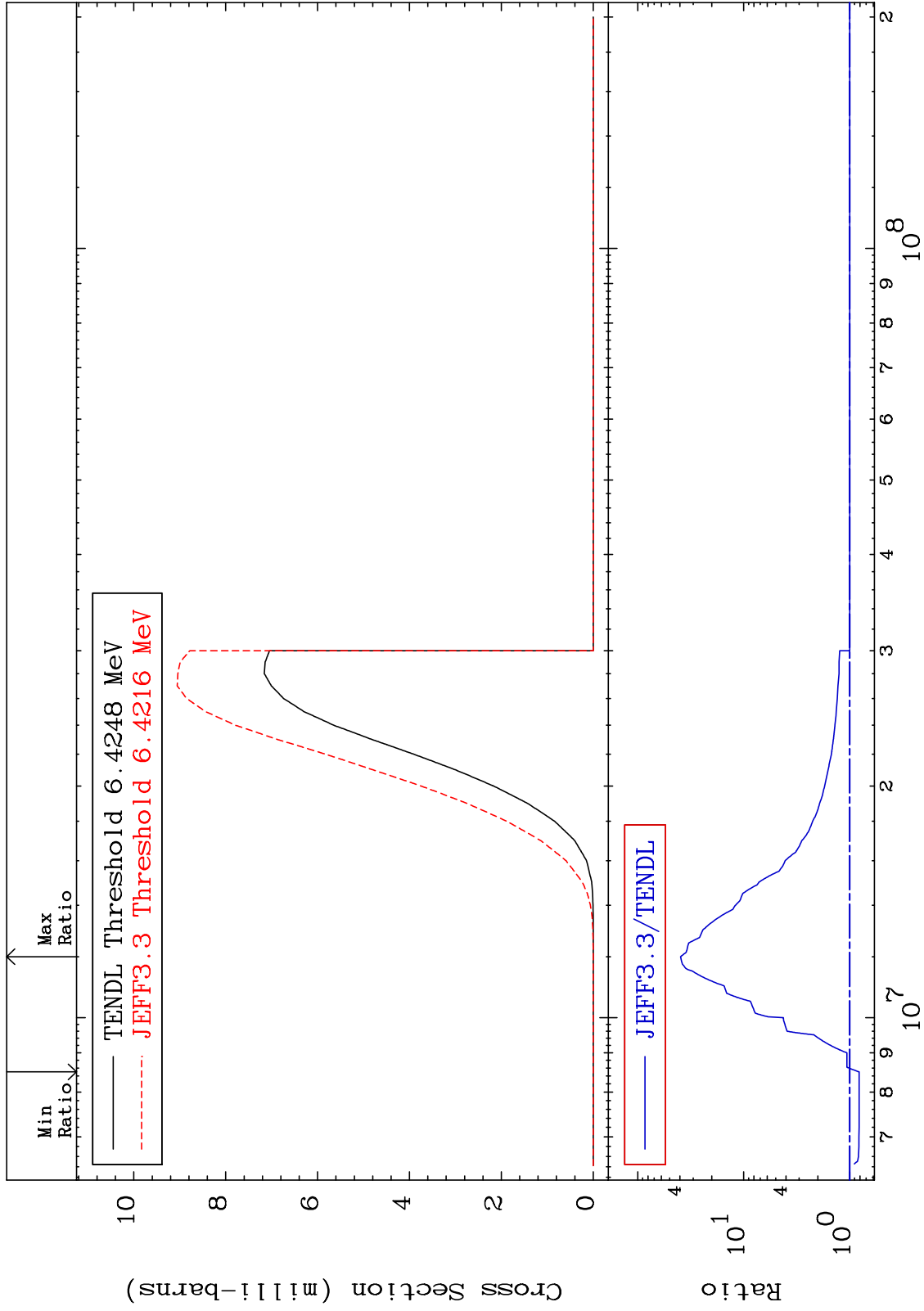
MAT 5634

(n, t)

56-Ba-133

Cross Section

-18.53 To 3840. %



52

Incident Energy (eV)

56-Ba-133

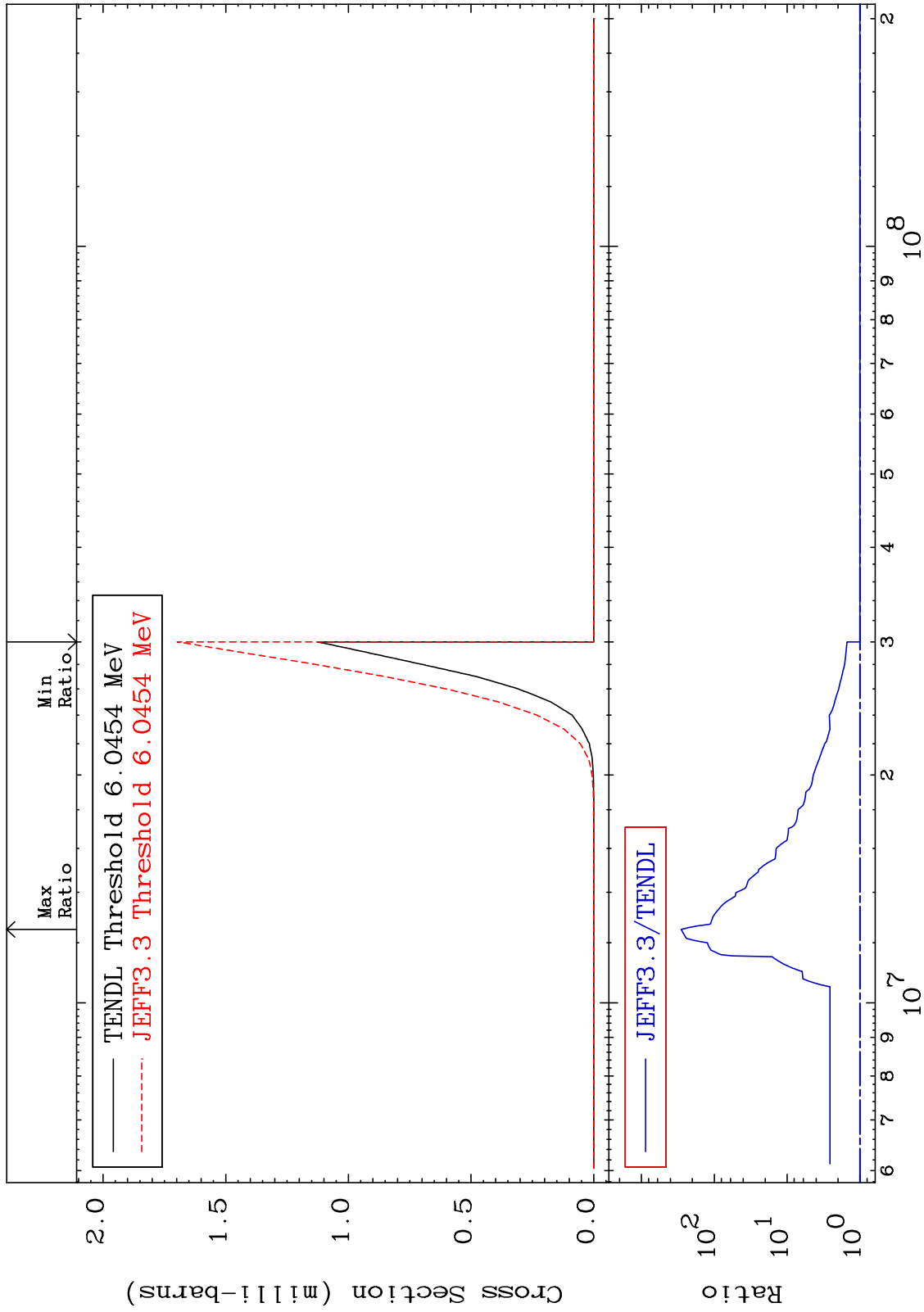
MAT 5634

(n, He-3)

56-Ba-133

Cross Section

0.000 To 9999. %



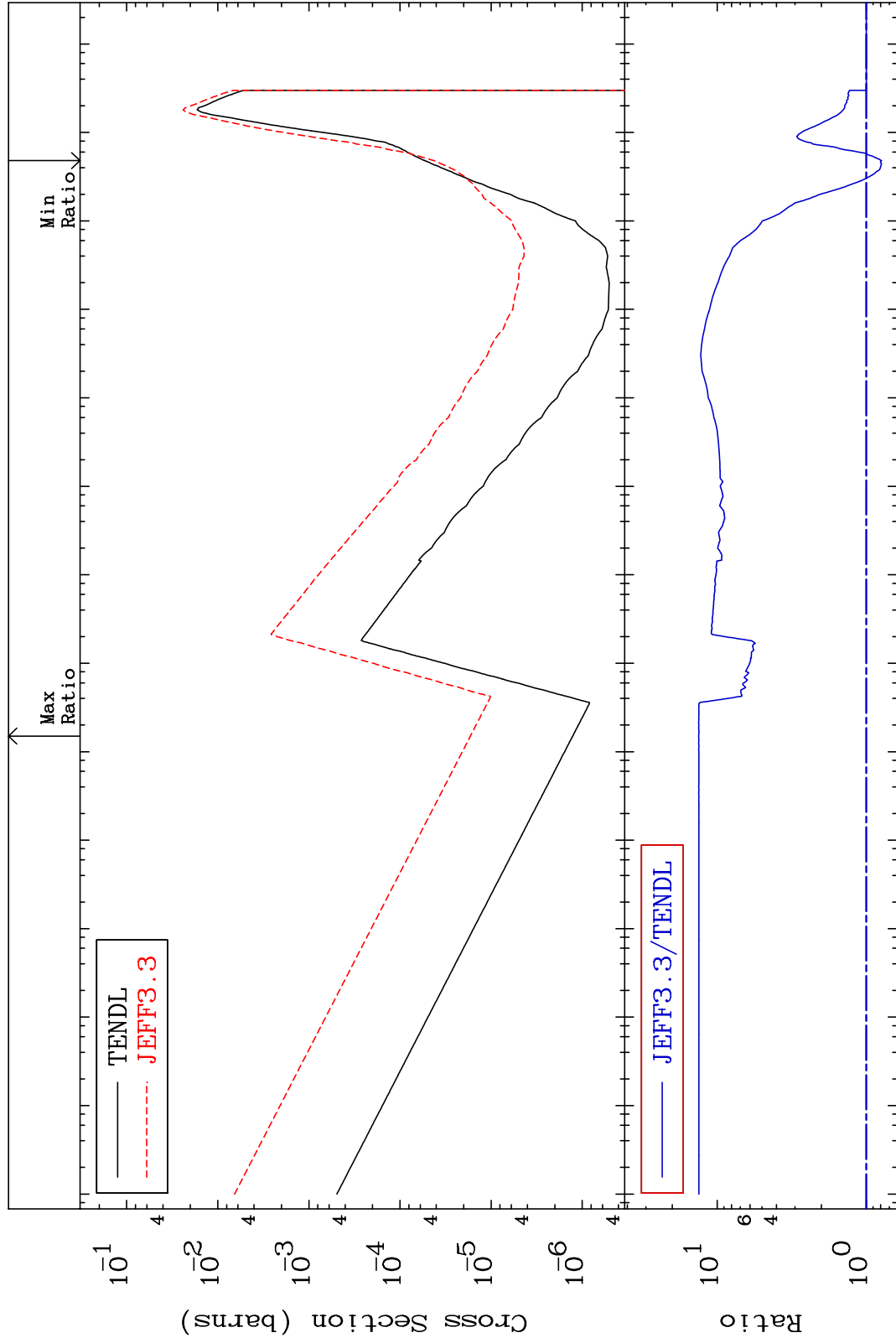
MAT 5634

(n, α)

56-Ba-133

-21.11 To 1228. %

Cross Section



Incident Energy (eV)

54

56-Ba-133

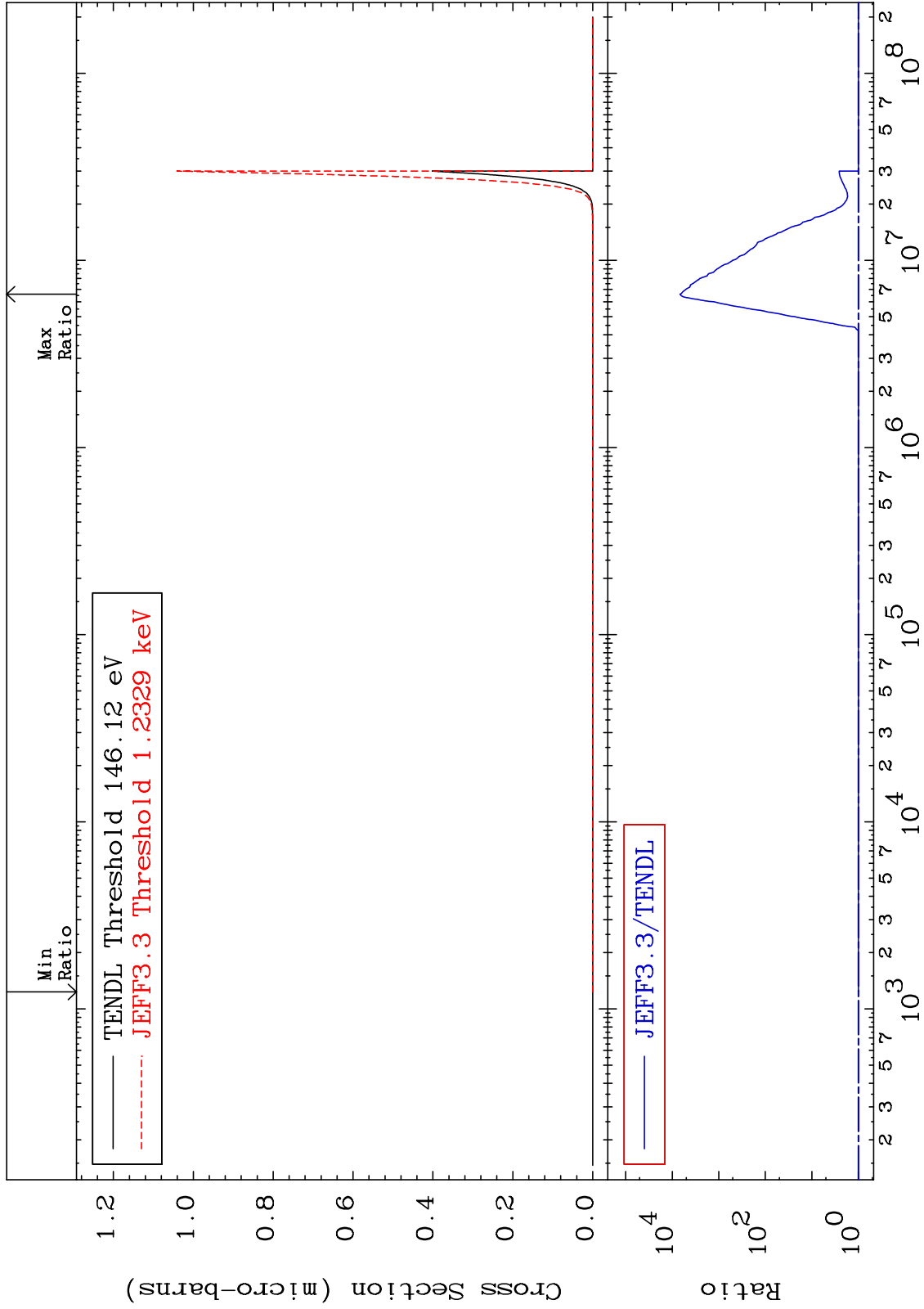
MAT 5634

(n, 2α)

56-Ba-133

Cross Section

0.000 To 9999. %



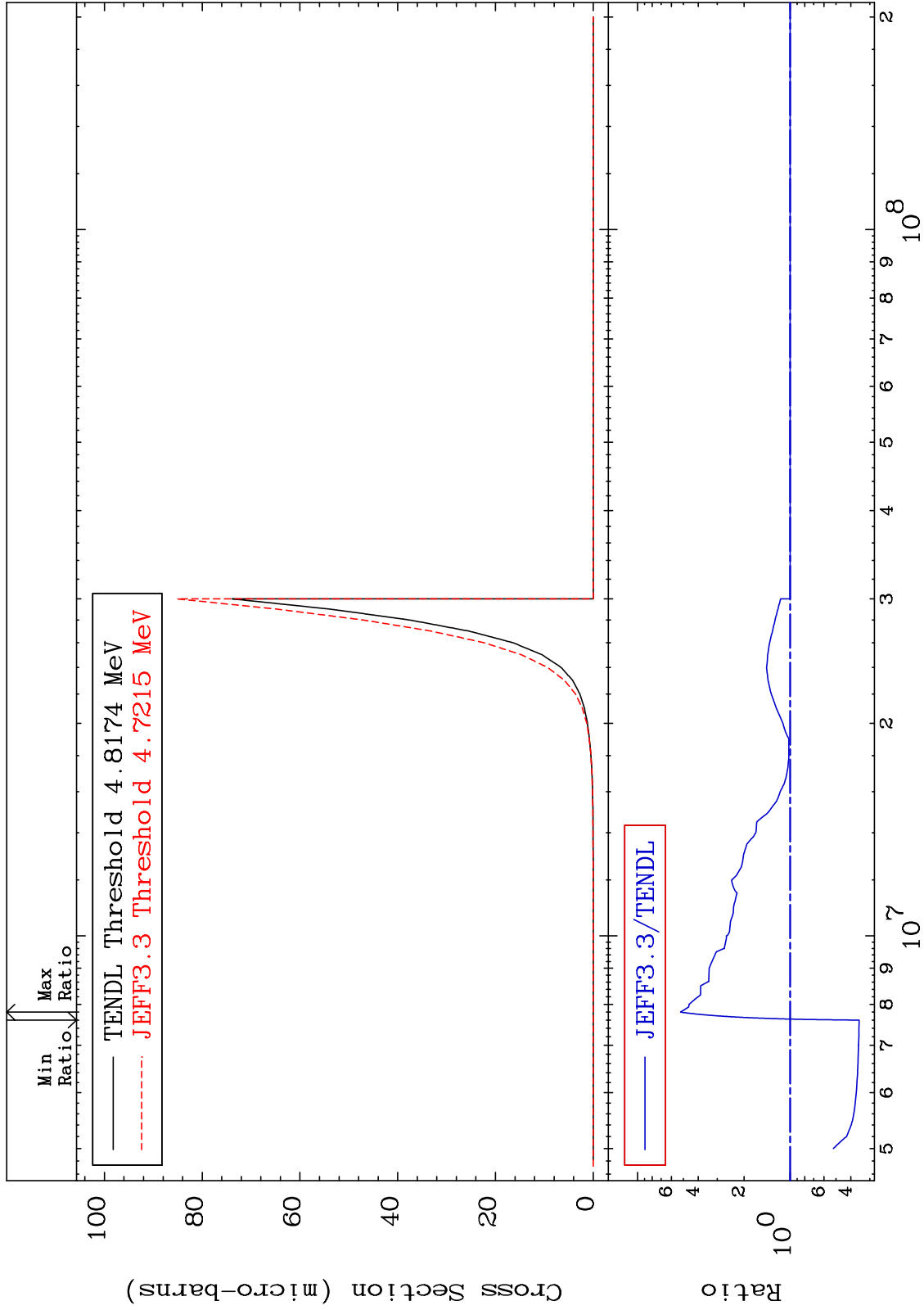
MAT 5634

(n,2p)

56-Ba-133

Cross Section

-64.76 To 421.4 %



56

Incident Energy (eV)

56-Ba-133

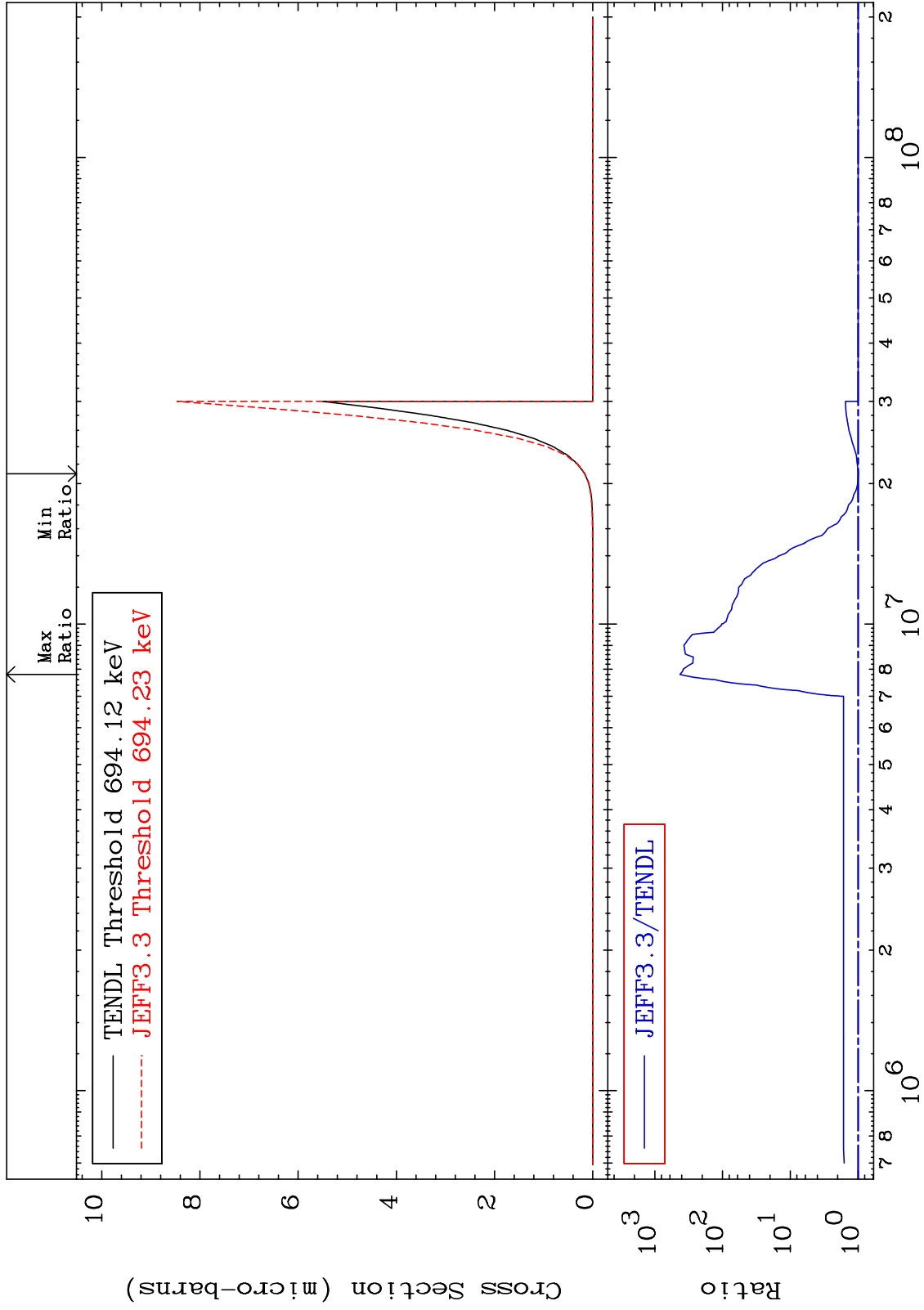
MAT 5634

(n,p) α

56-Ba-133

-0.887 To 9999. %

Cross Section



57

Incident Energy (eV)

56-Ba-133

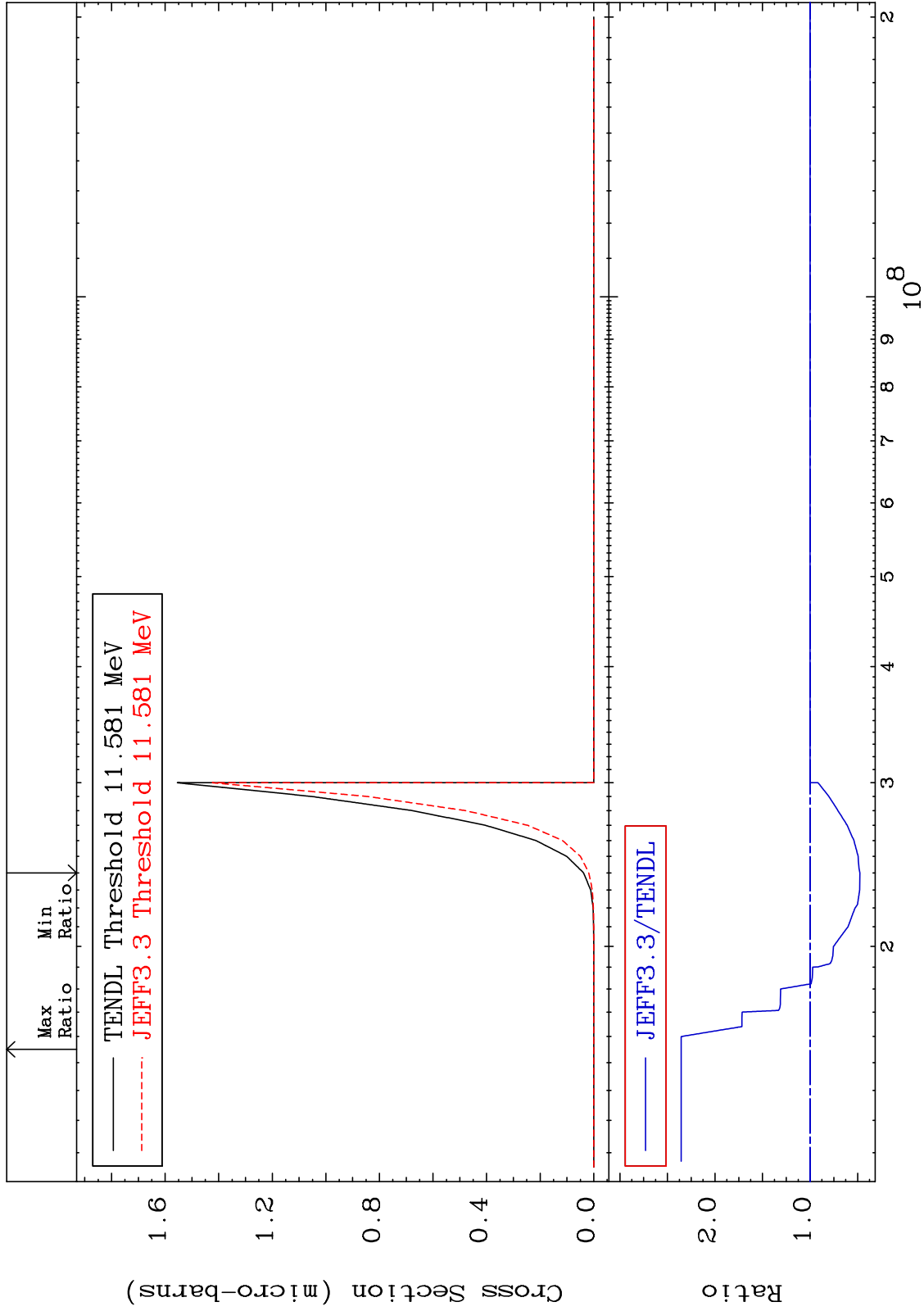
MAT 5634

(n,p) d

56-Ba-133

Cross Section

-52.44 To 135.5 %



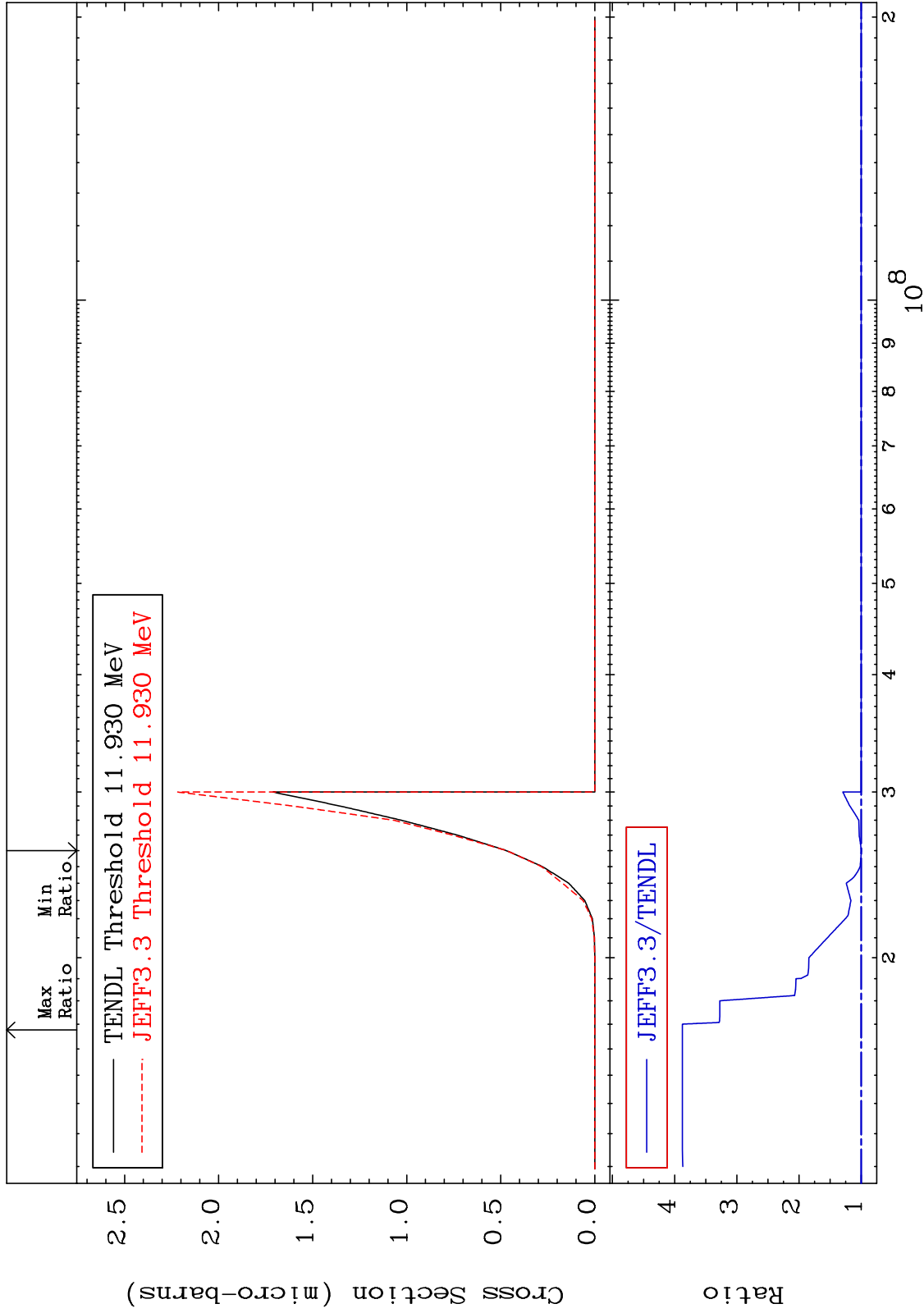
MAT 5634

(n,p) t

56-Ba-133

Cross Section

-0.295 To 287.5 %



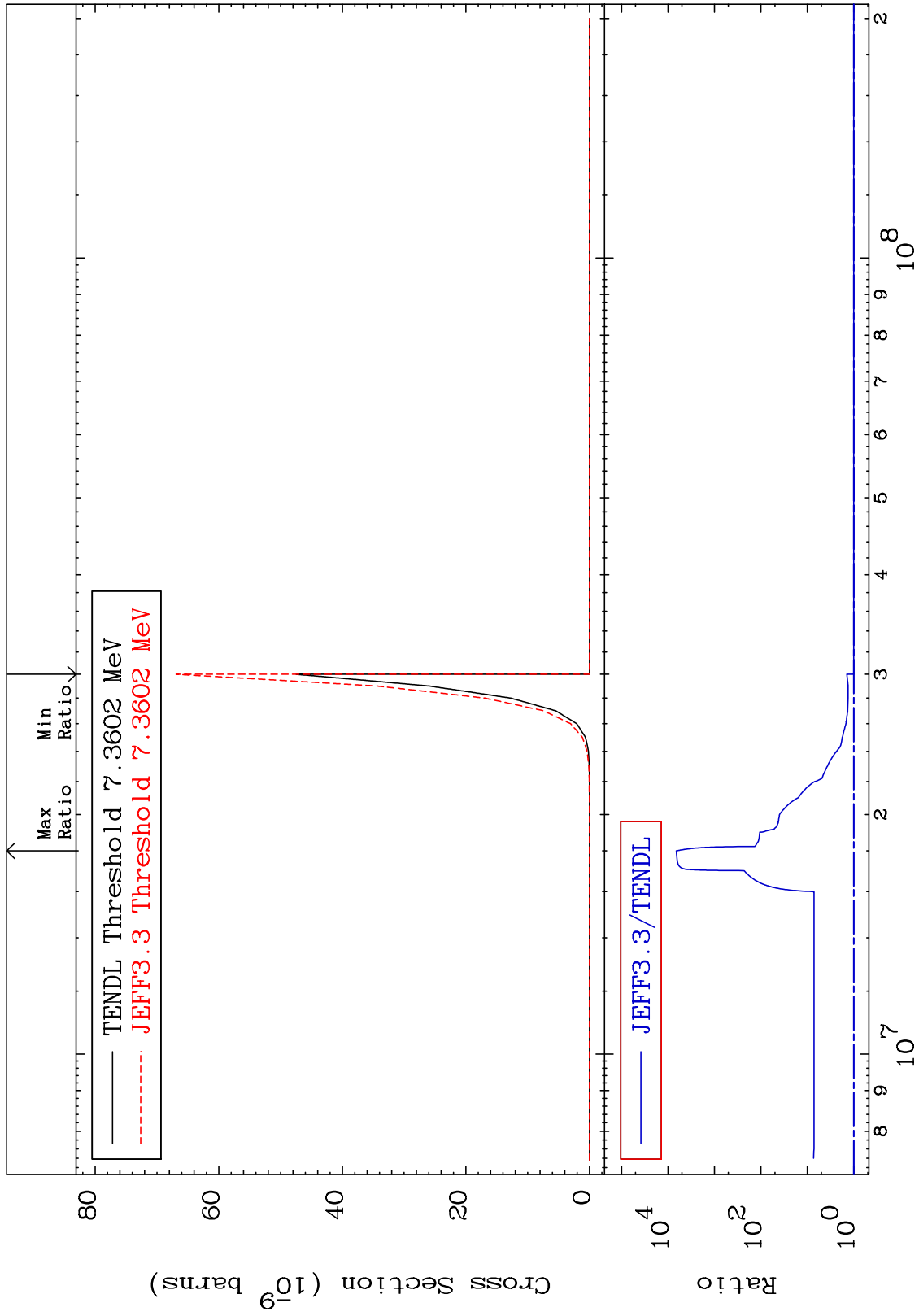
MAT 5634

(n,d) α

56-Ba-133

0.000 To 9999. %

Cross Section



60

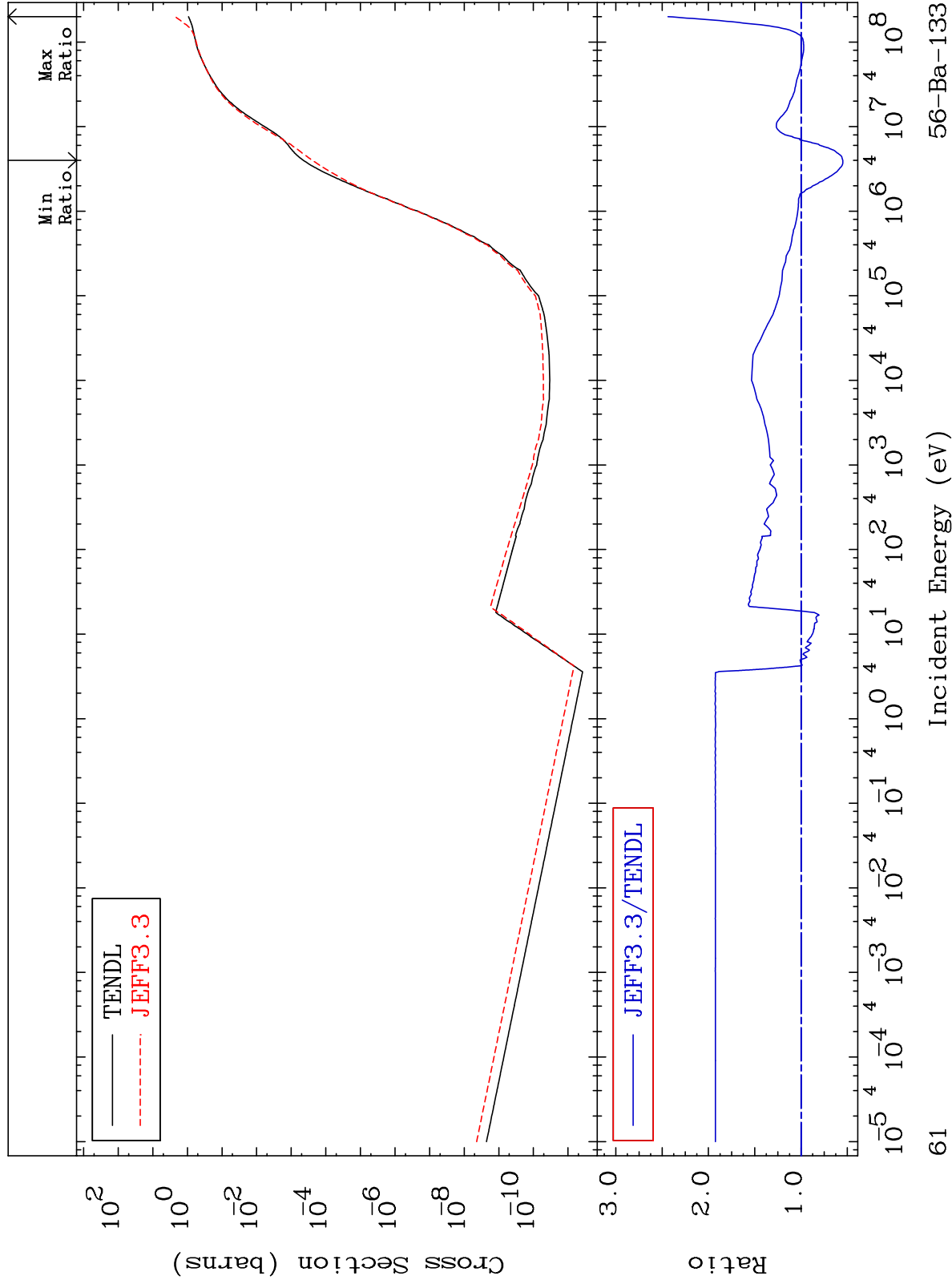
Incident Energy (eV)

56-Ba-133

MAT 5634

Hydrogen Production
Cross Section

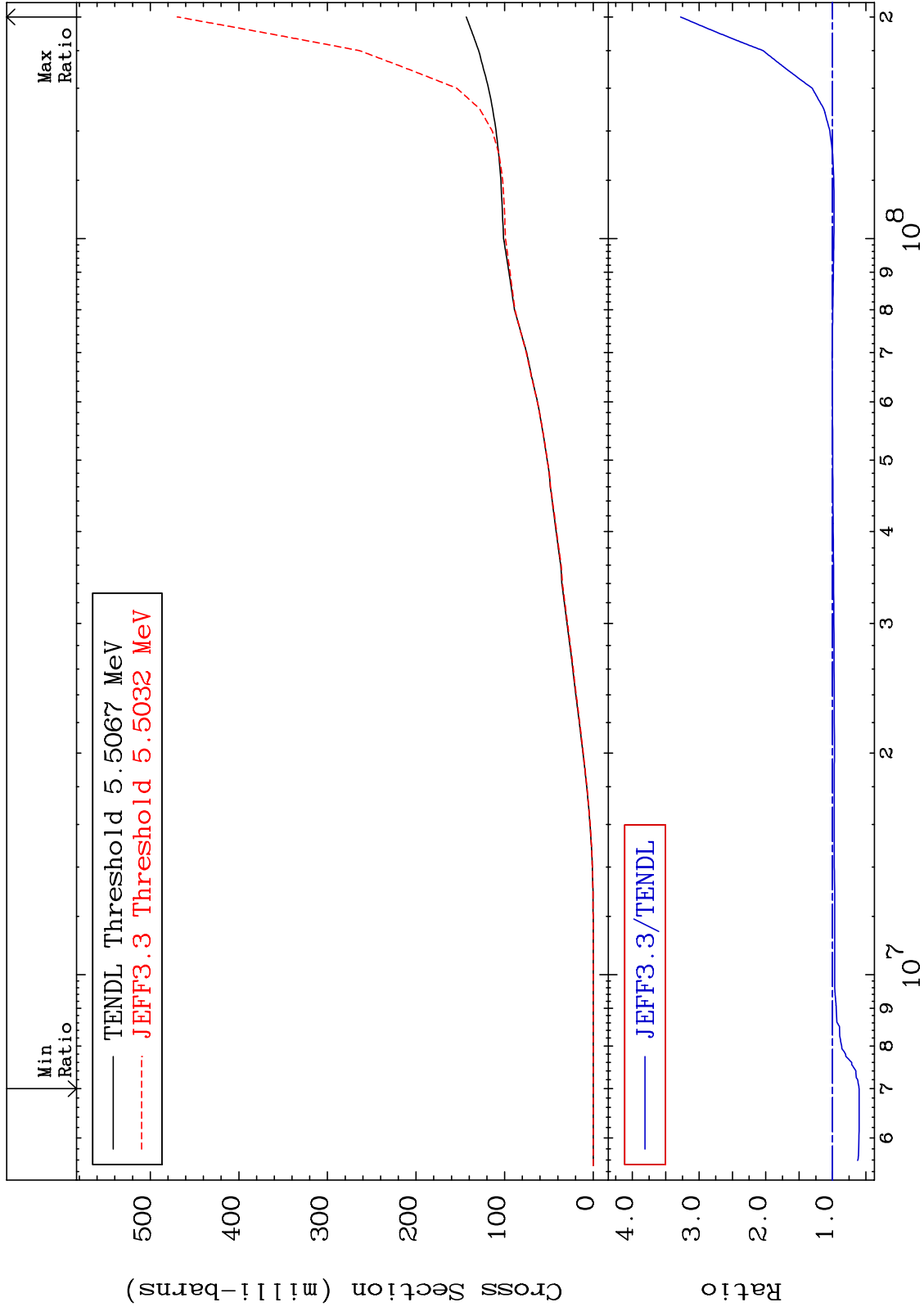
56-Ba-133
-45.14 To 143.7 %



MAT 5634

Deuterium Production
Cross Section

56-Ba-133
-40.00 To 227.7 %



62

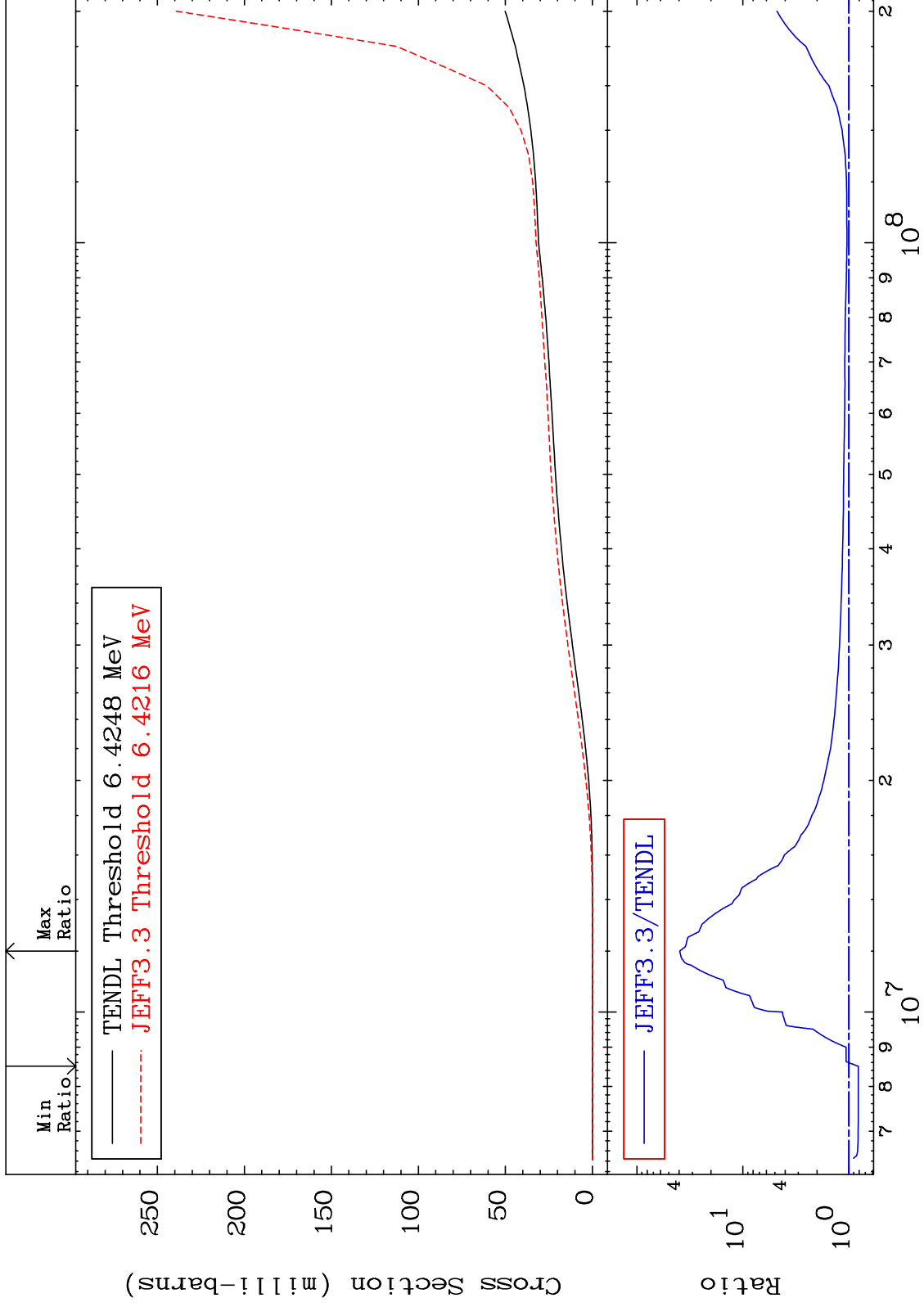
Incident Energy (eV)

56-Ba-133

MAT 5634

Tritium Production
Cross Section

56-Ba-133
-18.53 To 3840. %



63

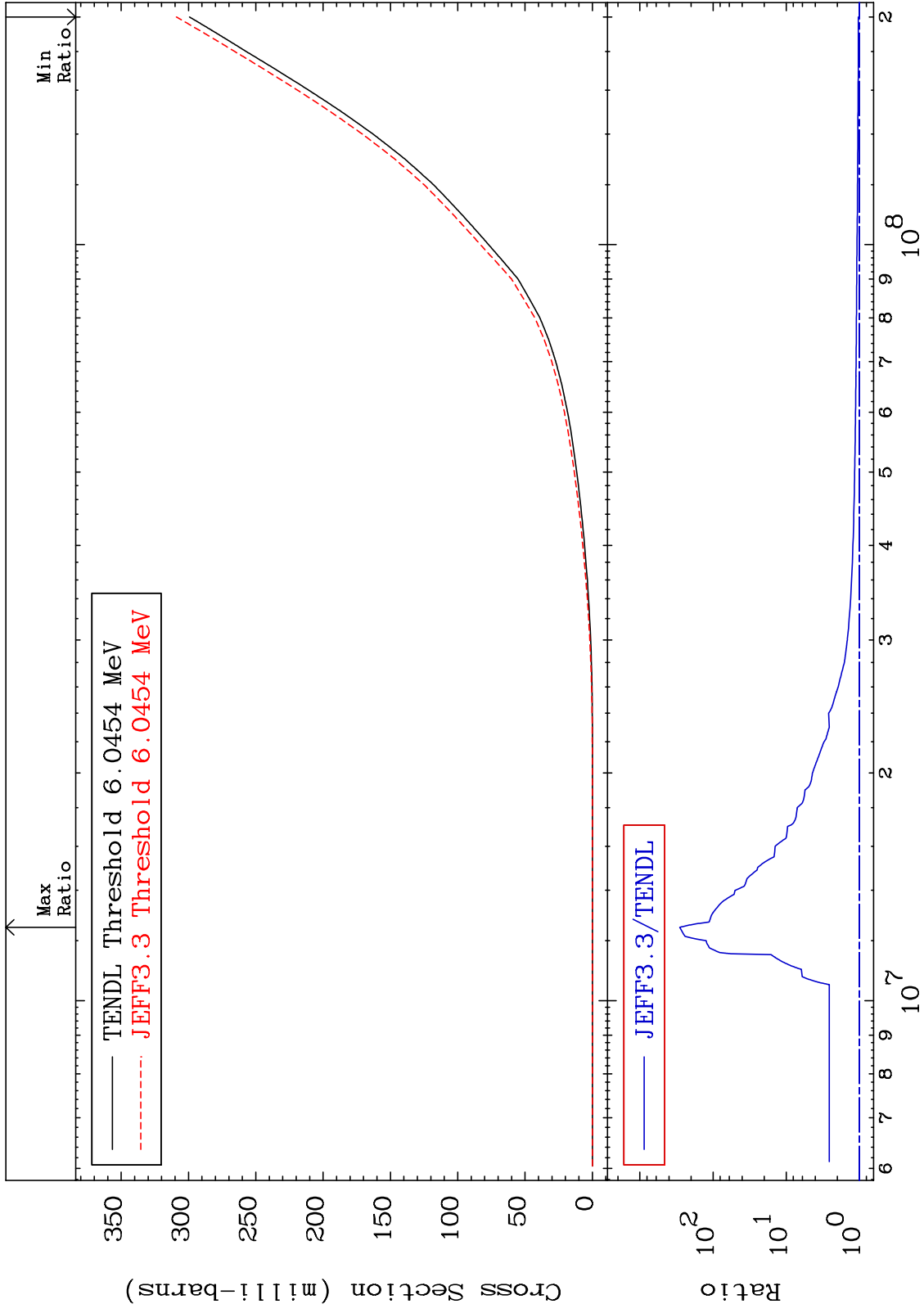
Incident Energy (eV)

56-Ba-133

MAT 5634

He-3 Production
Cross Section

56-Ba-133
3.235 To 9999. %



64

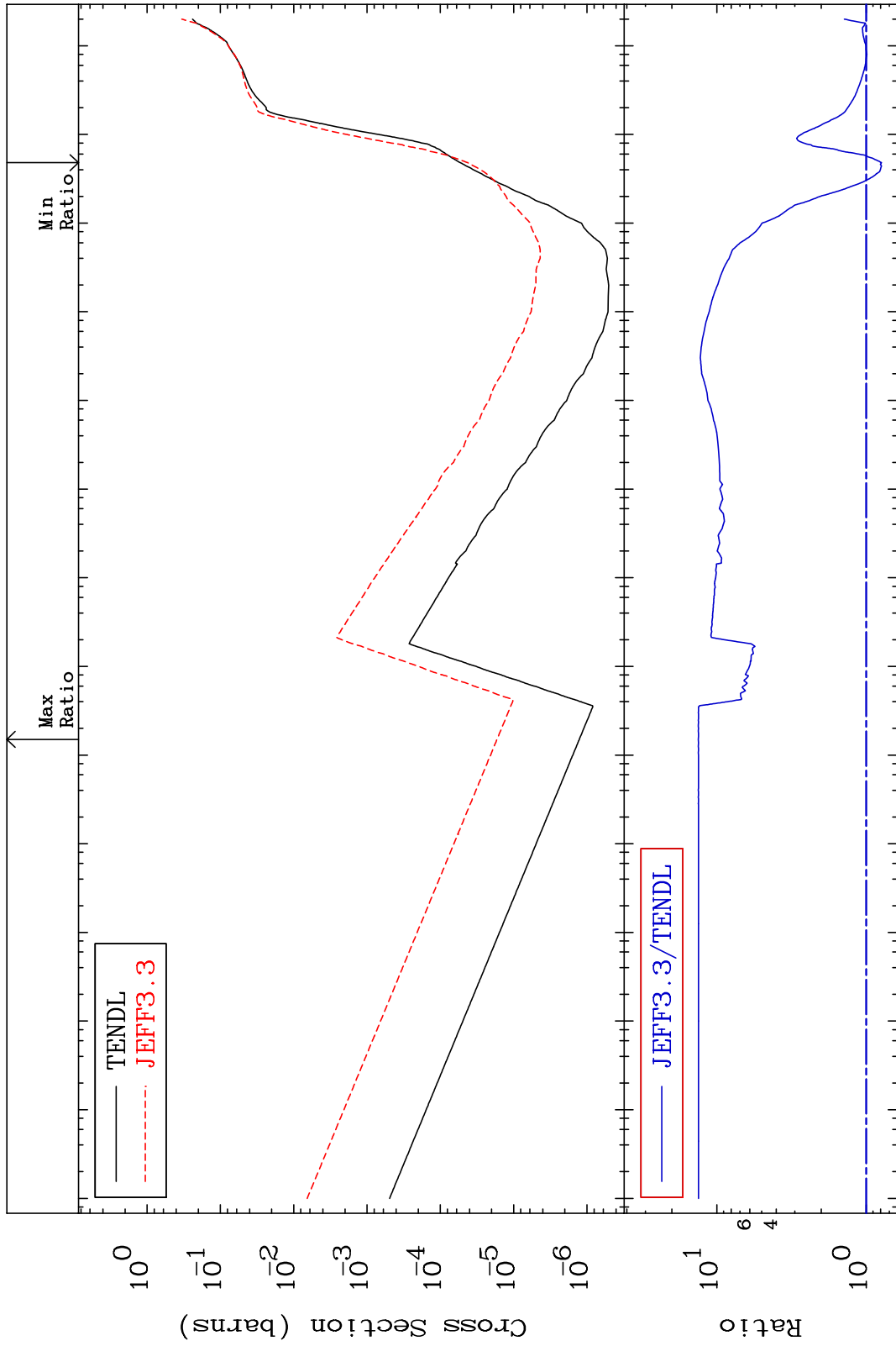
Incident Energy (eV)

56-Ba-133

MAT 5634

He-4 Production
Cross Section

56-Ba-133
-21.11 To 1228. %



65

Incident Energy (eV)

56-Ba-133

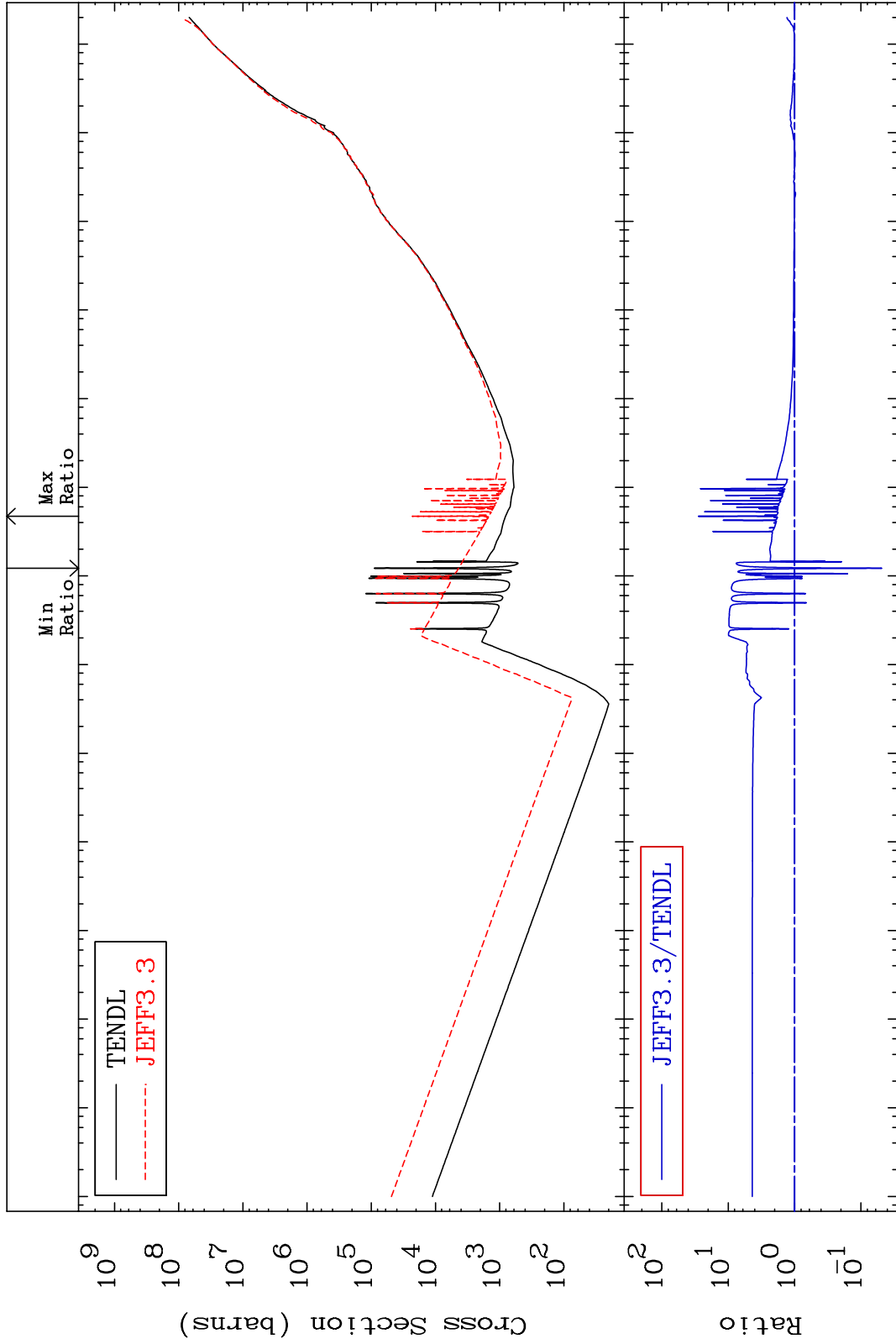
MAT 5634

Kerma total (eV-barns)

56-Ba-133

-95.11 To 2718. %

Cross Section



Ratio

66

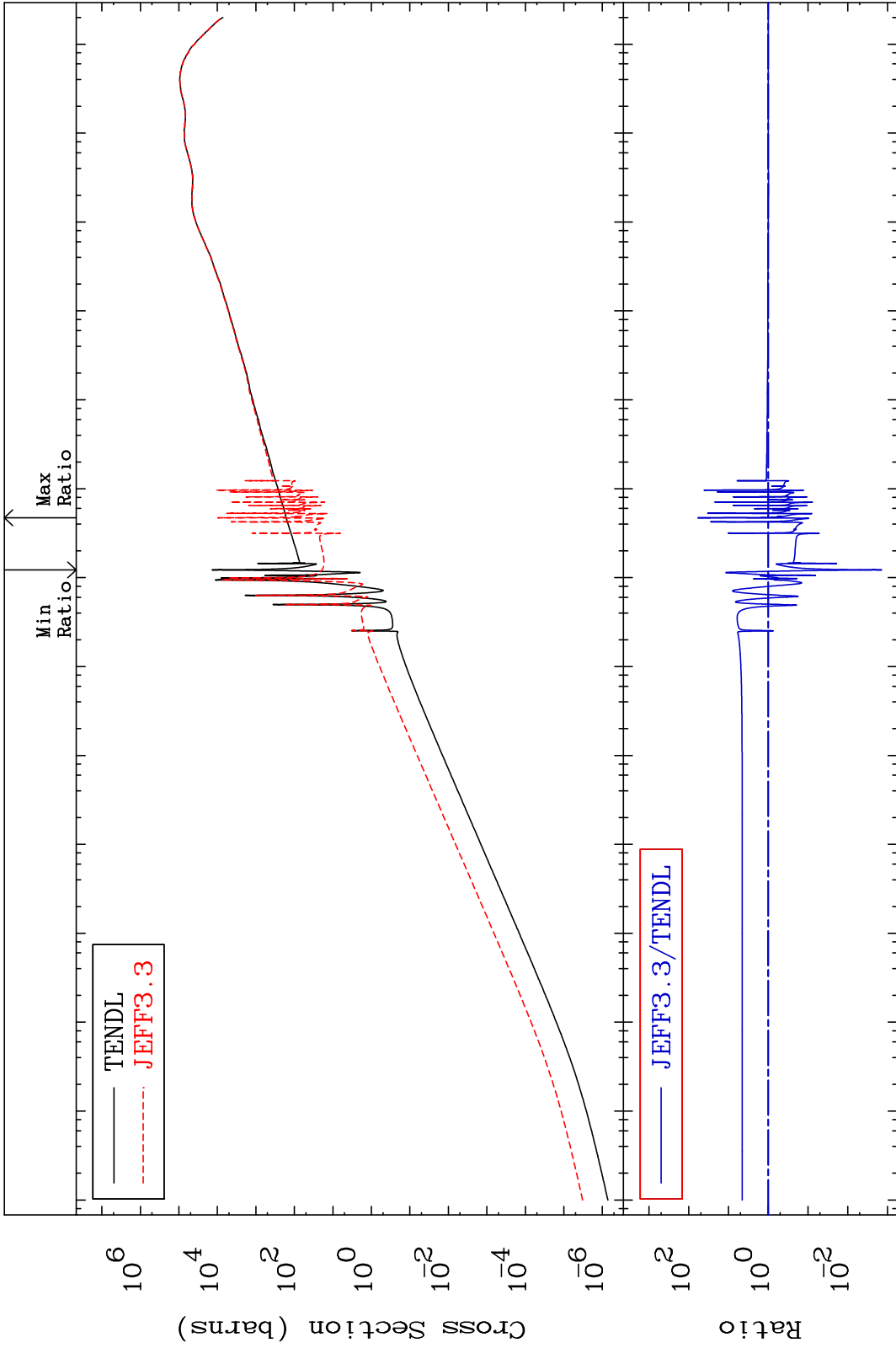
Incident Energy (eV)

56-Ba-133

MAT 5634

Kerma elastic
Cross Section

56-Ba-133
-99.86 To 5842. %



67

Incident Energy (eV)

56-Ba-133

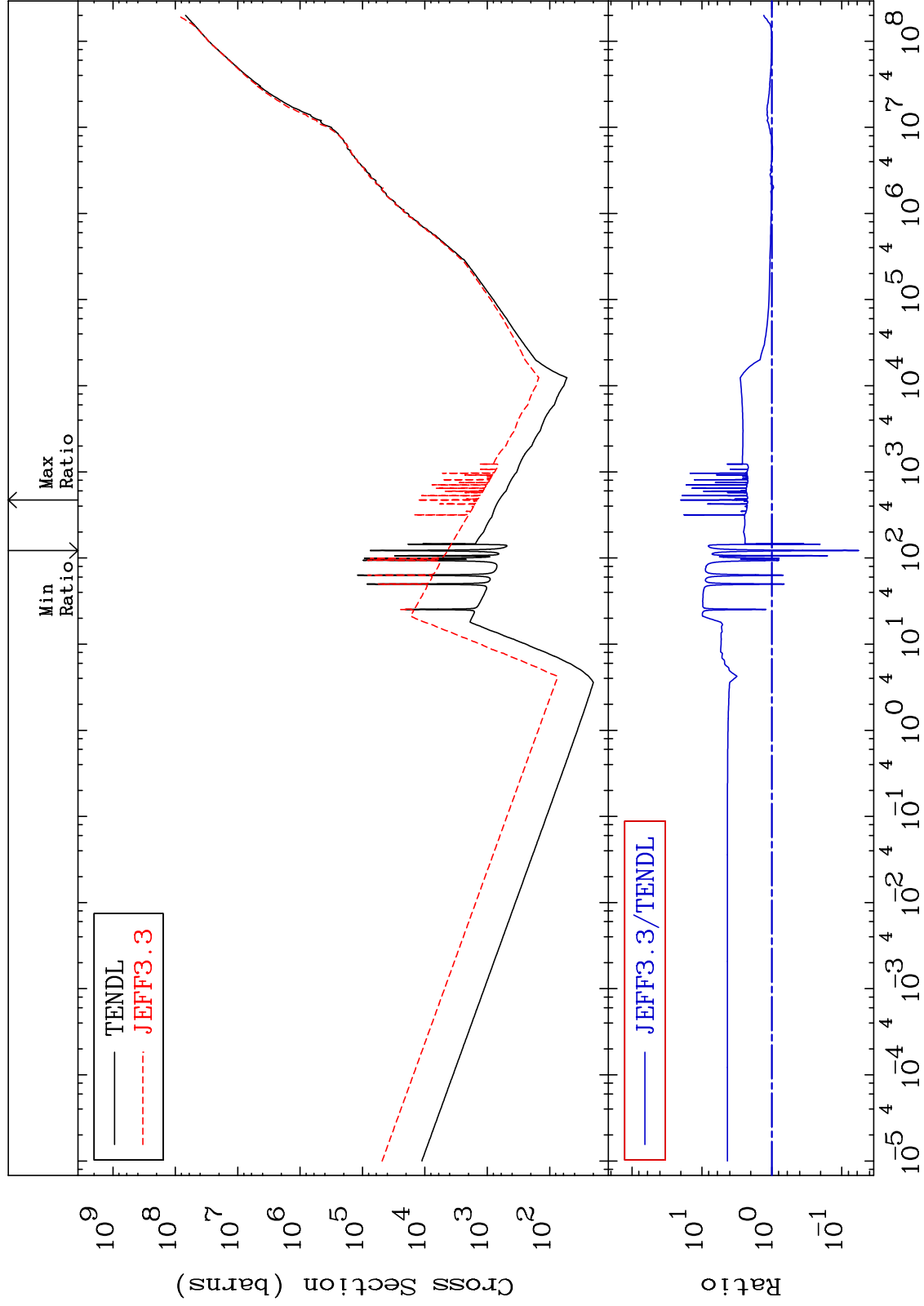
MAT 5634

Kerma non-elastic (all but mt2)

56-Ba-133

-94.25 To 1931. %

Cross Section



68

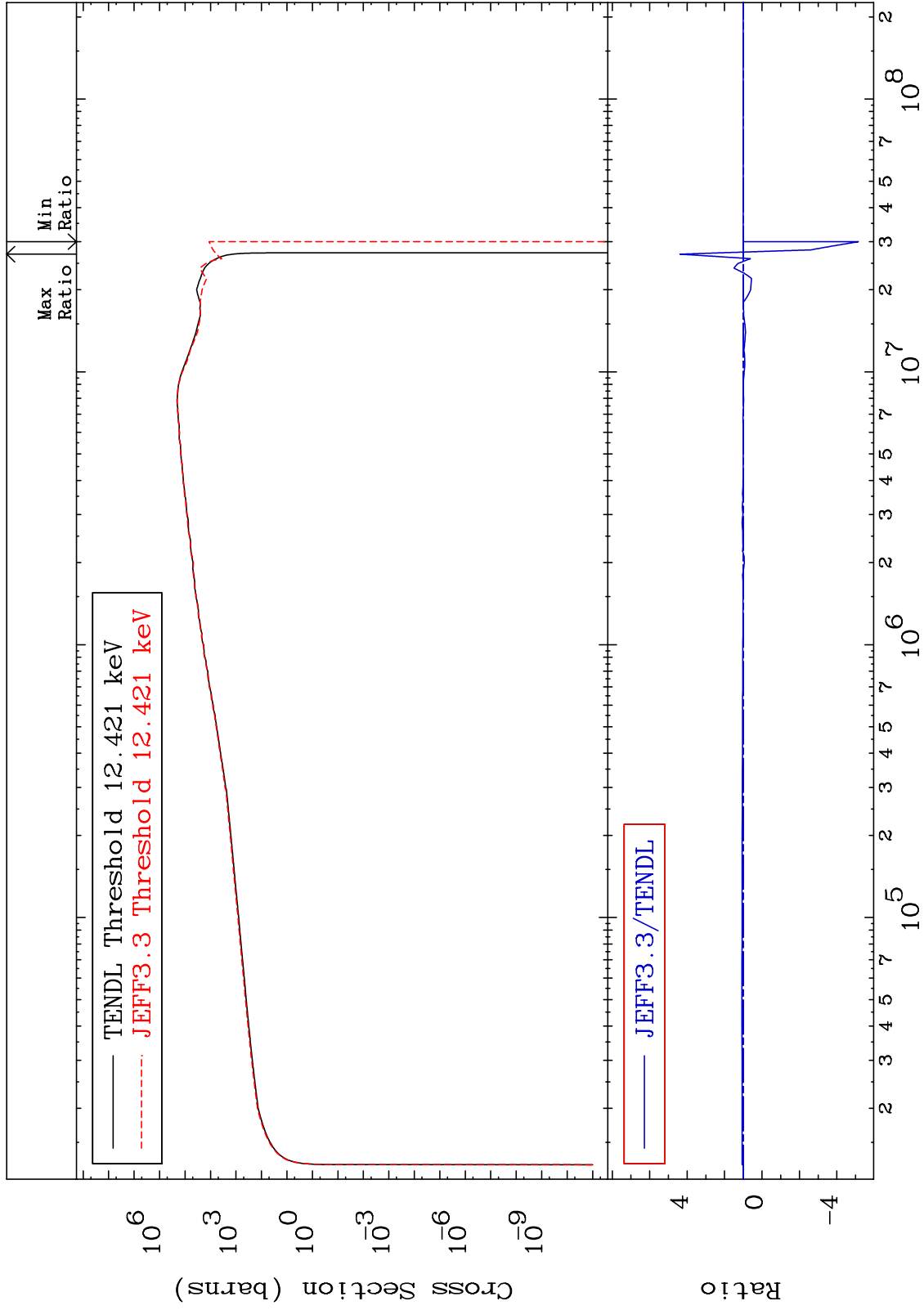
Incident Energy (eV)

56-Ba-133

MAT 5634

Kerma inelastic (mt51-91)
Cross Section

56-Ba-133
-615.2 To 337.9 %



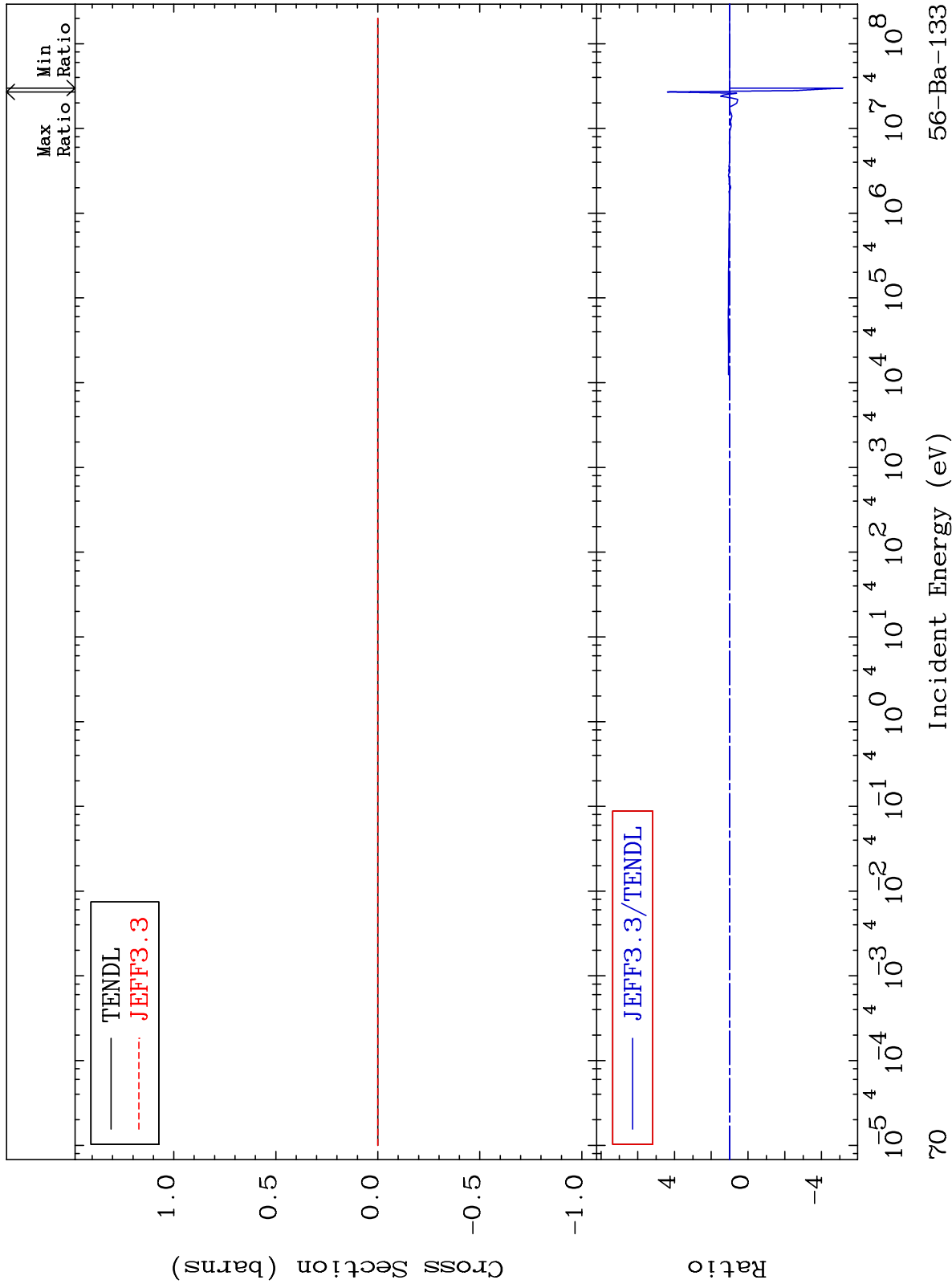
69

56-Ba-133

MAT 5634

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

56-Ba-133
-615.2 To 337.9 %



56-Ba-133

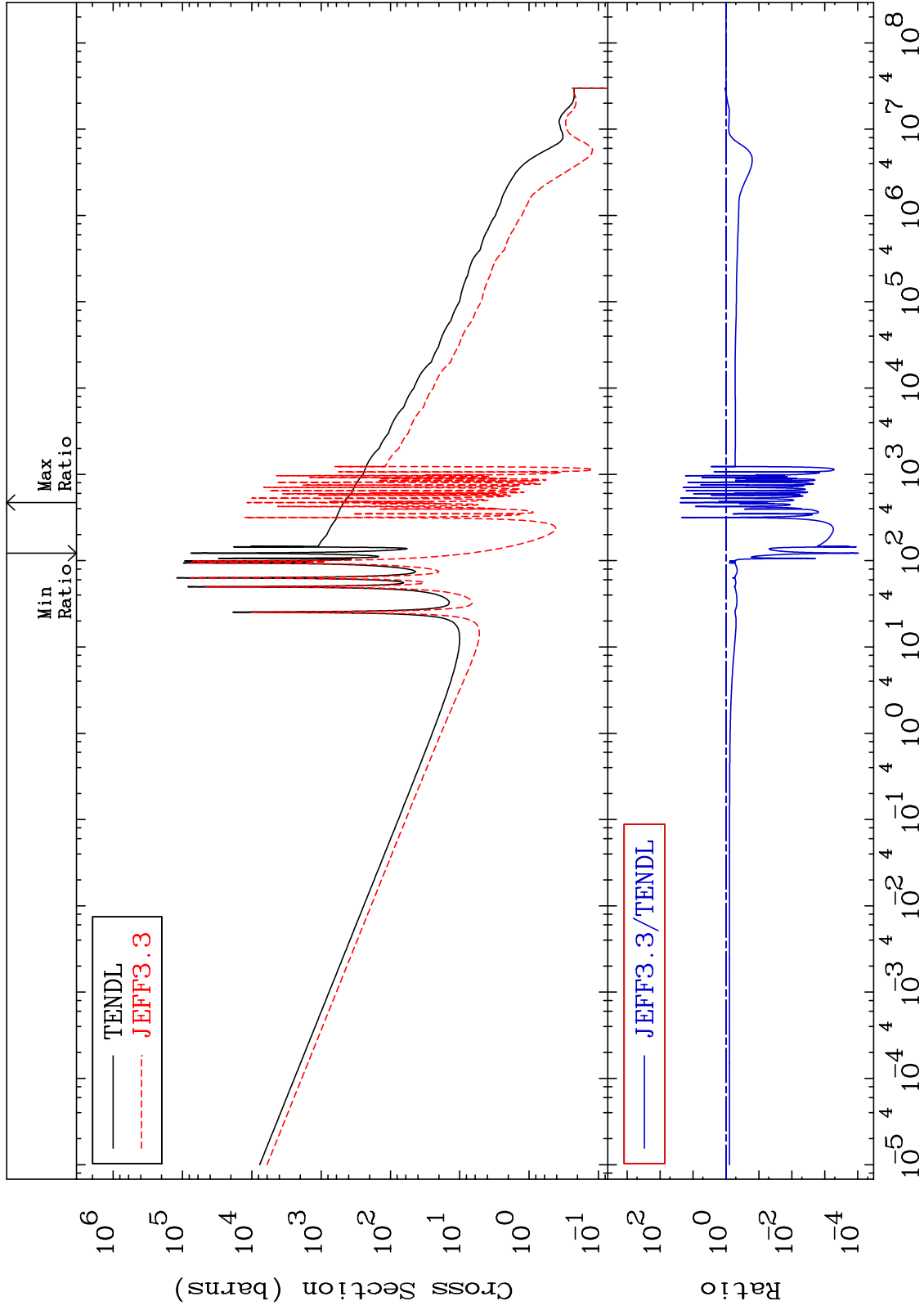
Incident Energy (eV)

70

MAT 5634

Kerma capture (mt102)
Cross Section

56-Ba-133
-99.99 To 2379. %



71

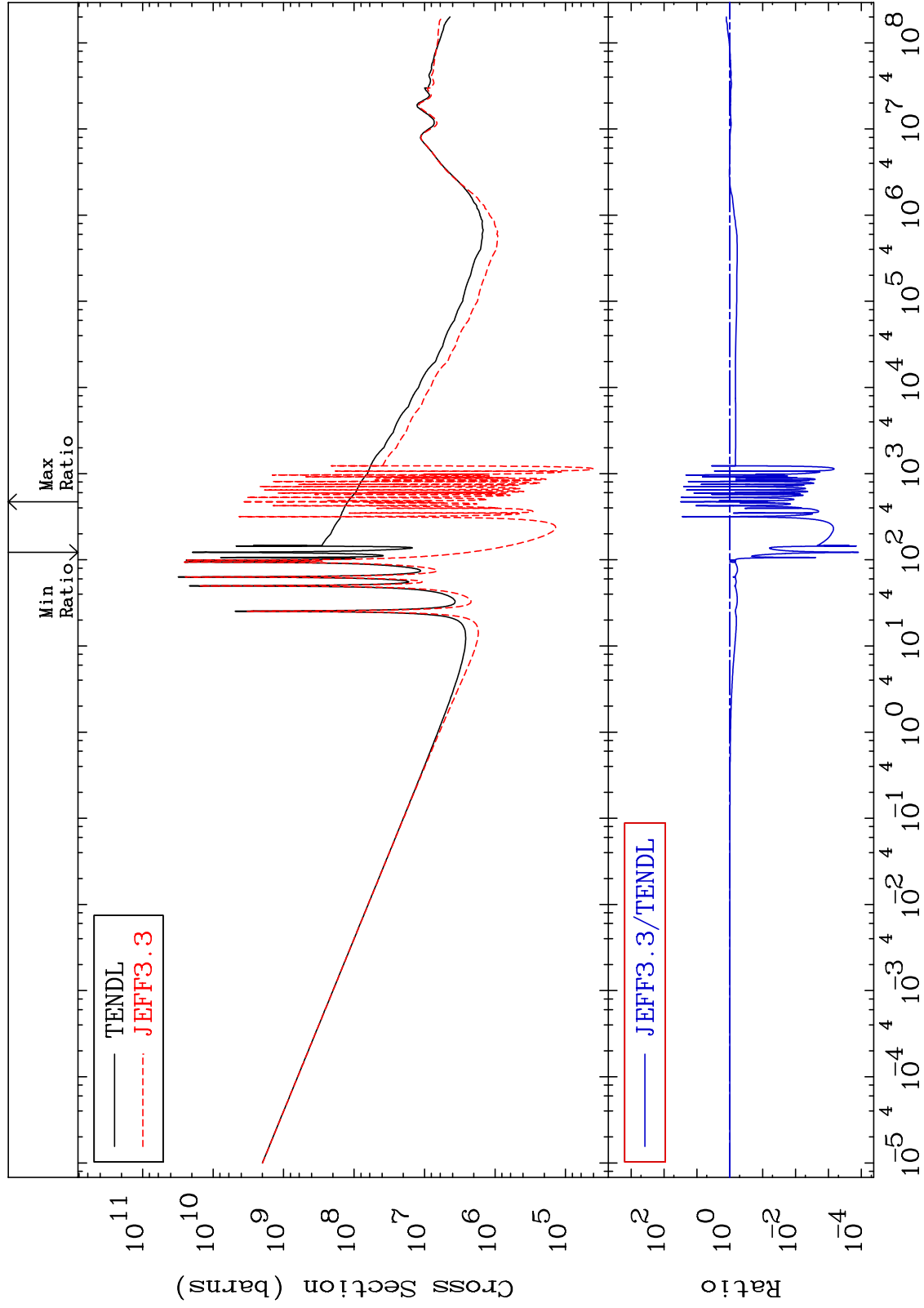
Incident Energy (eV)

56-Ba-133

MAT 5634

Total photon (eV-barns)
Cross Section

56-Ba-133
-99.99 To 3059. %



72

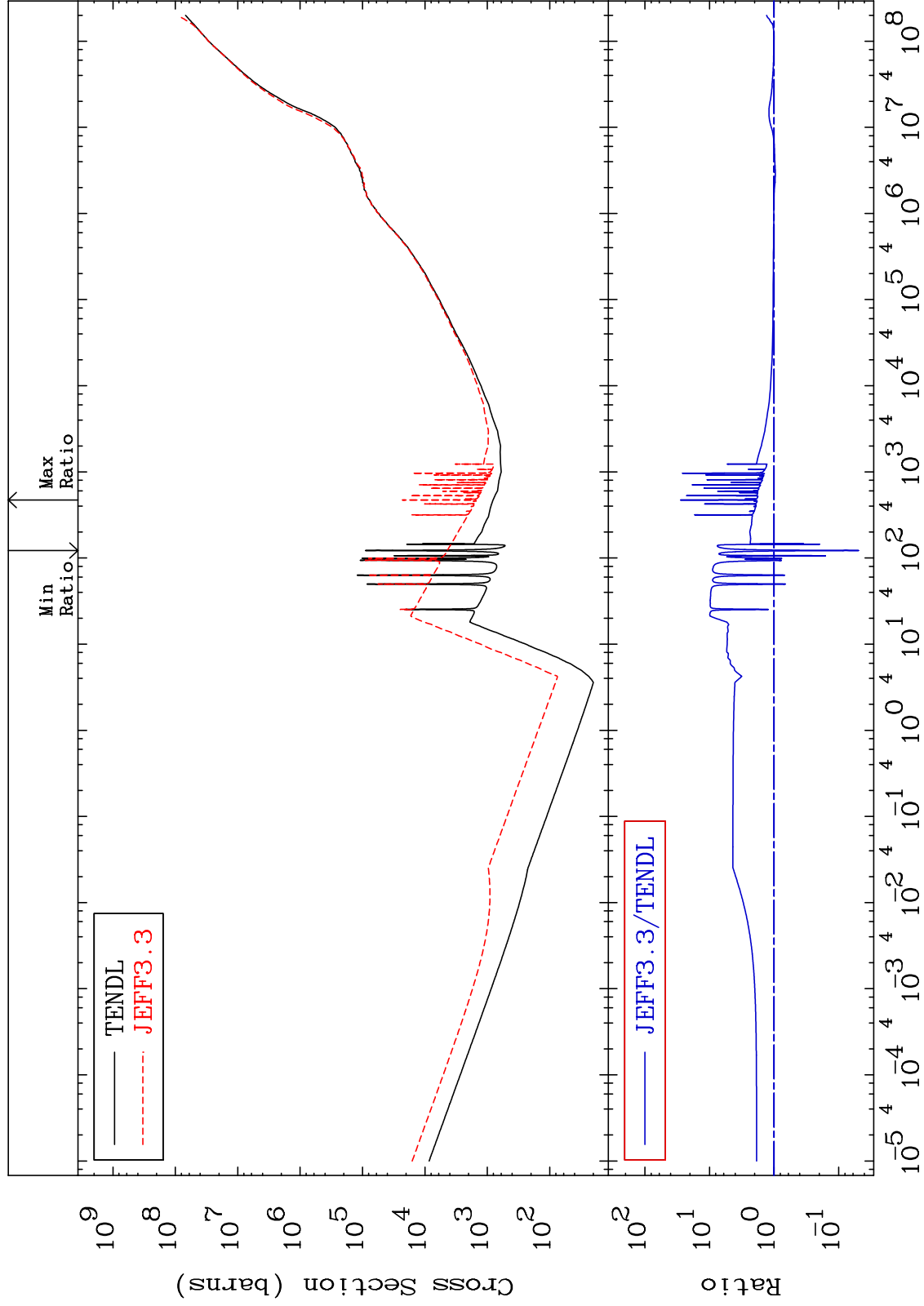
Incident Energy (eV)

56-Ba-133

MAT 5634

Total kinematic kerma (high limit)
Cross Section

56-Ba-133
-95.08 To 2715. %



73

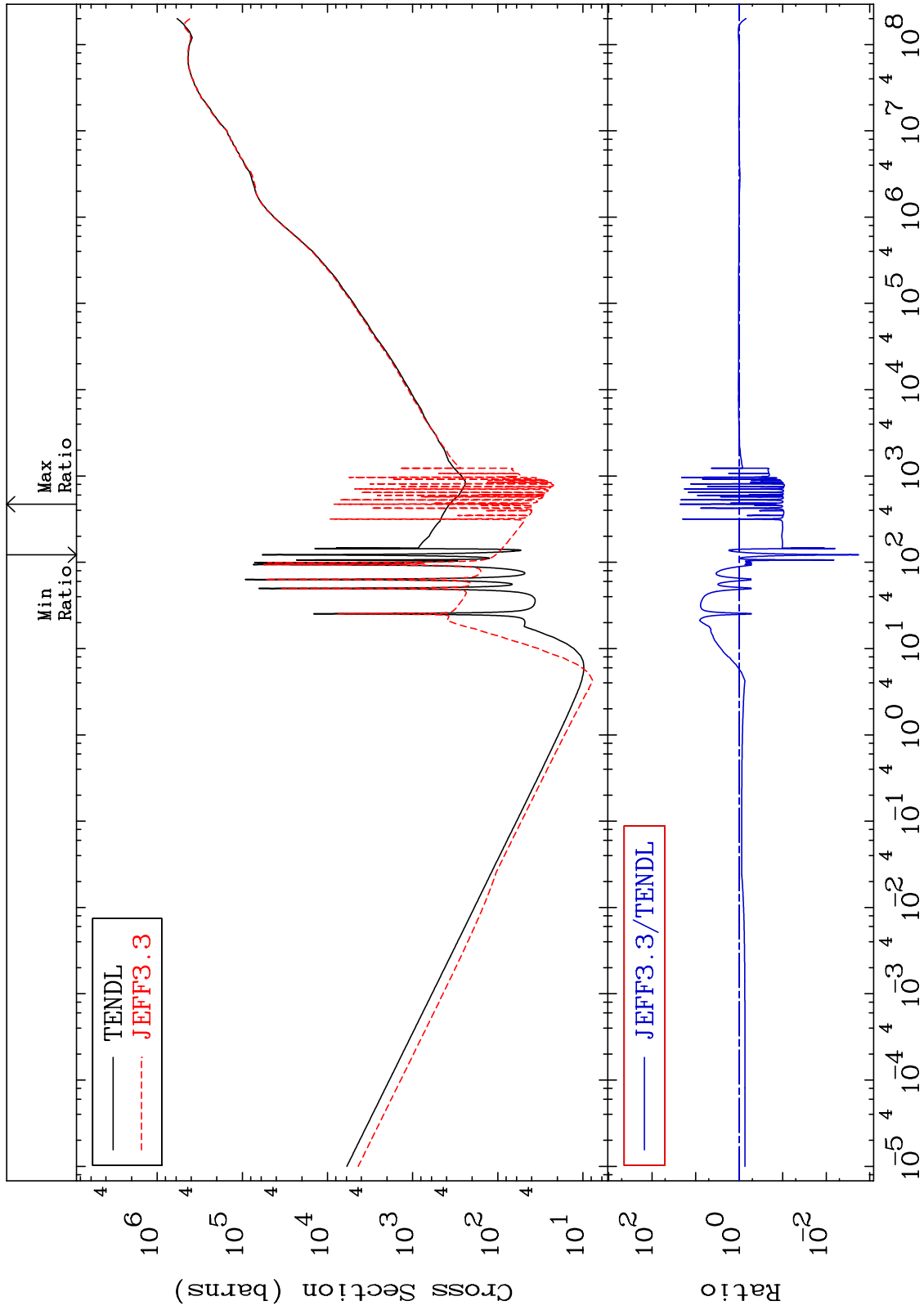
Incident Energy (eV)

56-Ba-133

MAT 5634

Dpa total (eV-barns)
Cross Section

56-Ba-133
-99.82 To 2186. %



74

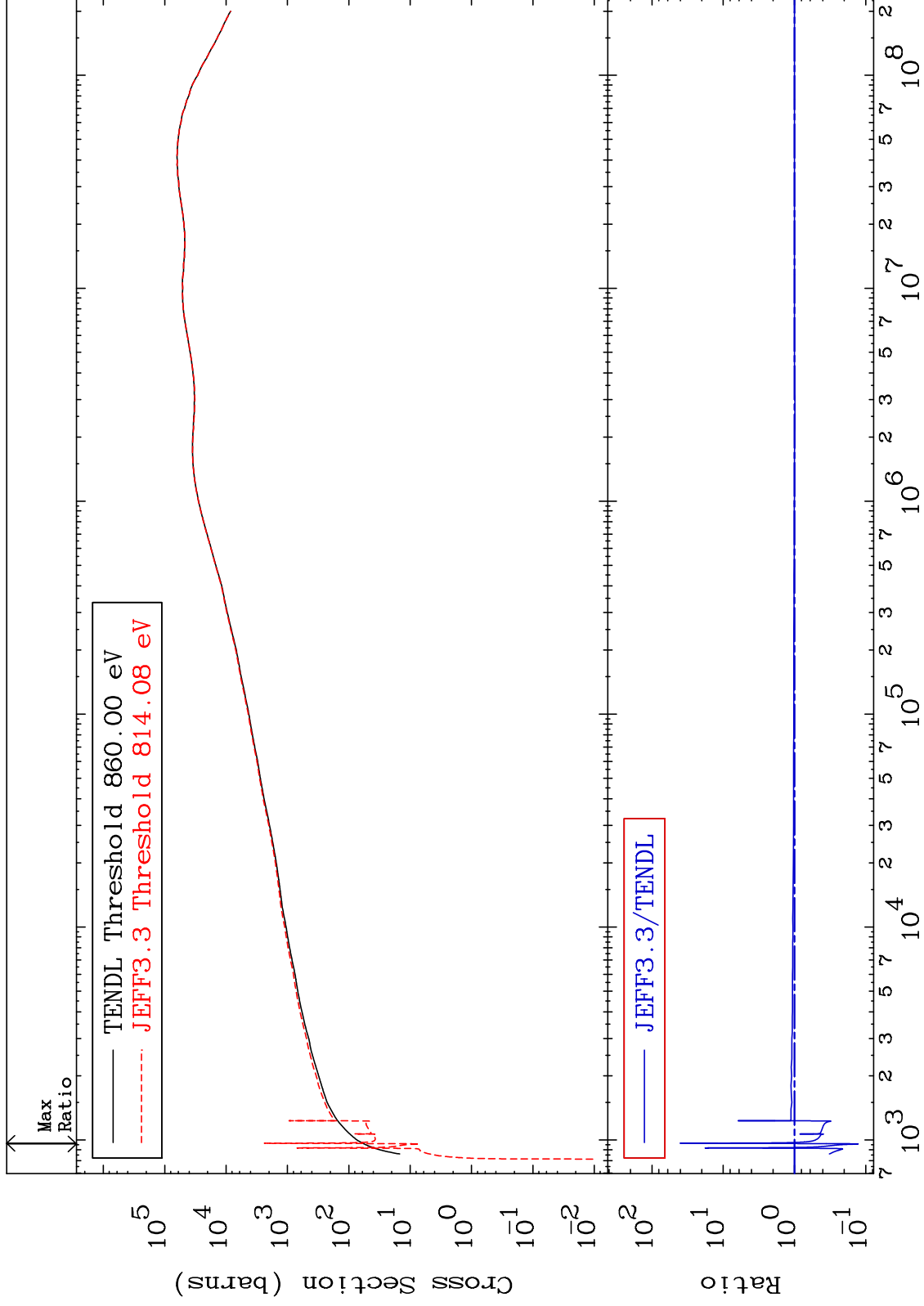
Incident Energy (eV)

56-Ba-133

MAT 5634

Dpa elastic (mt2)
Cross Section

56-Ba-133
-87.34 To 3939. %



75

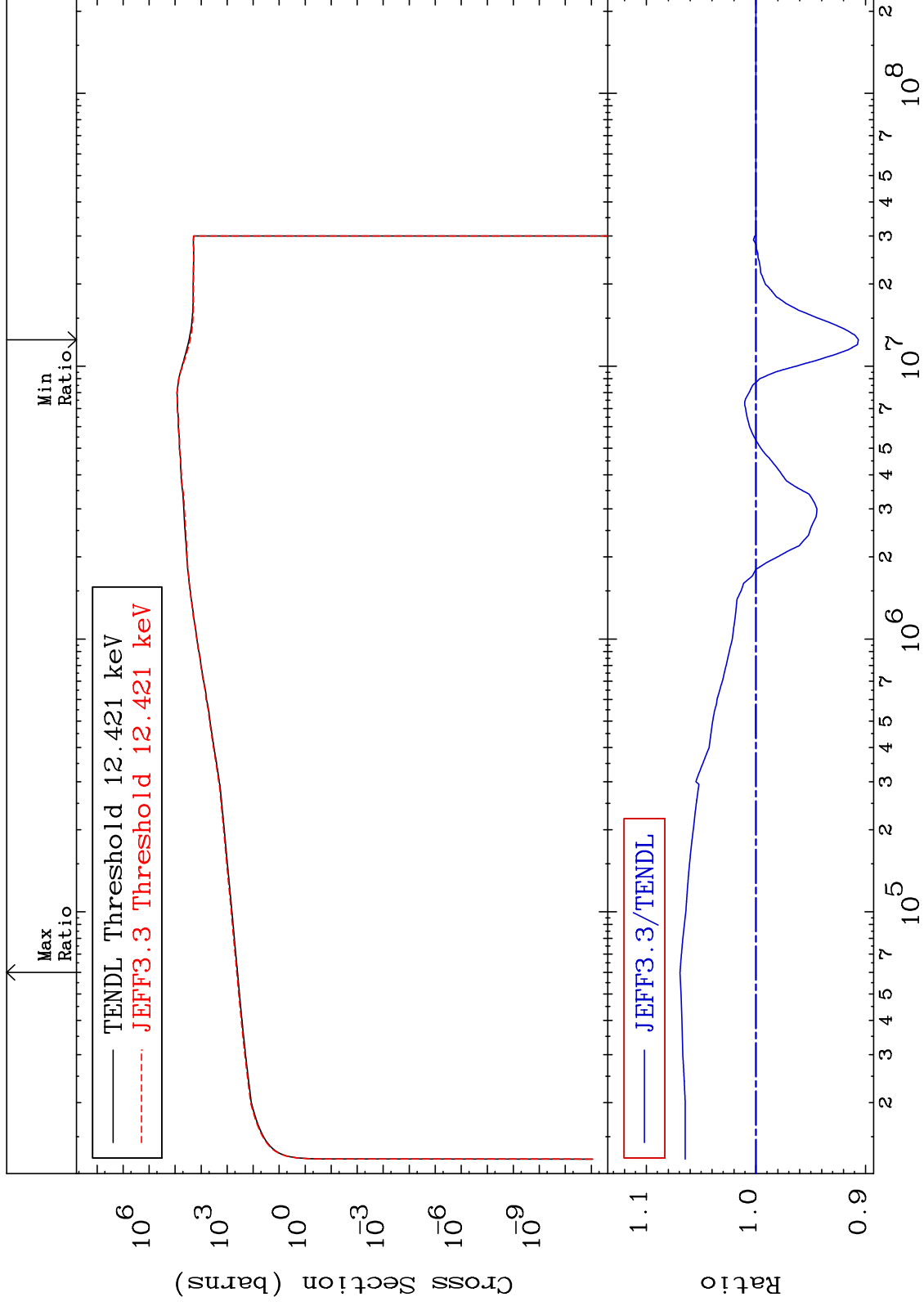
Incident Energy (eV)

56-Ba-133

MAT 5634

Dpa inelastic (mt51-91)
Cross Section

56-Ba-133
-9.354 To 6.929 %



76

Incident Energy (eV)

56-Ba-133

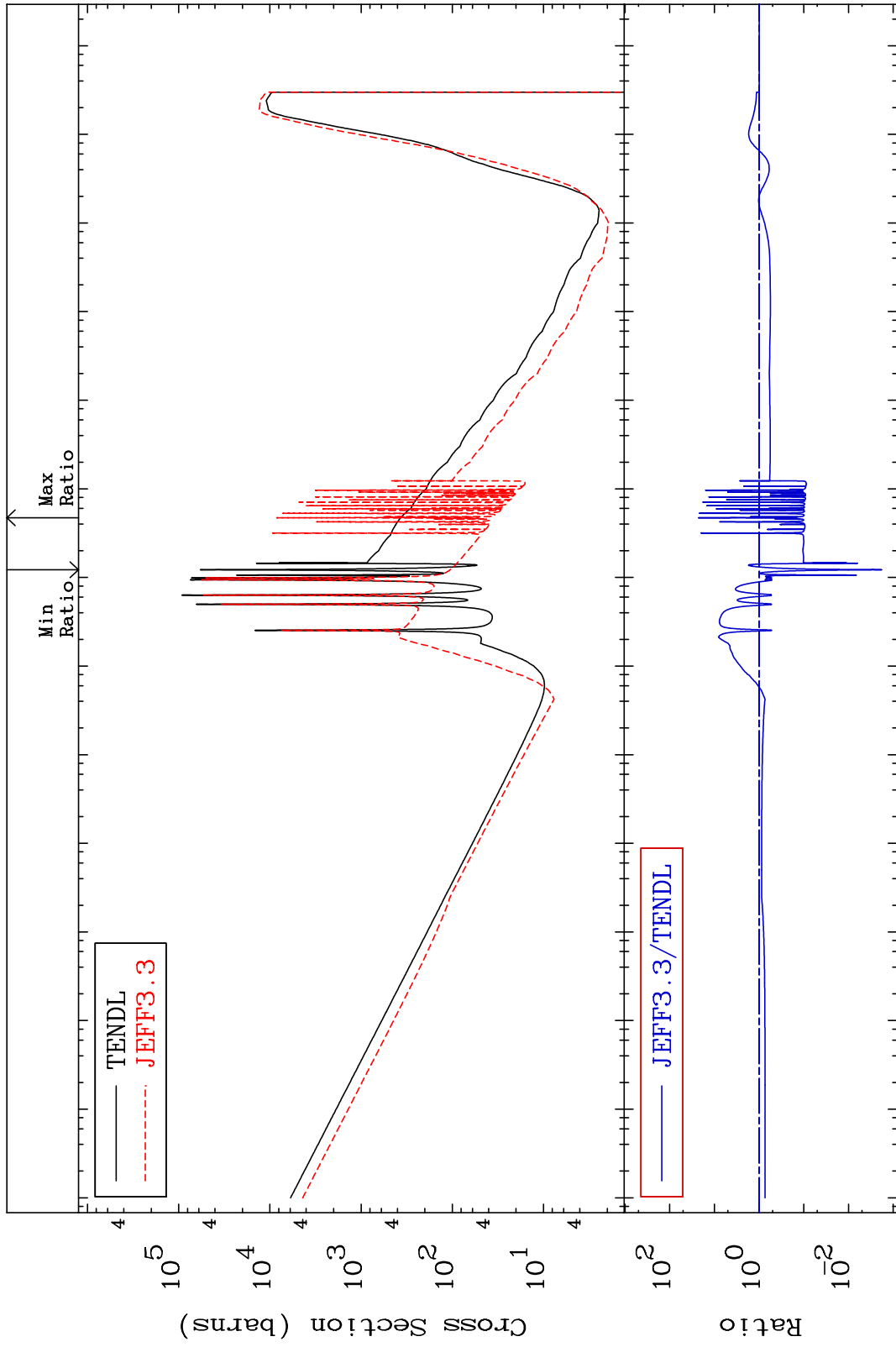
MAT 5634

Dpa disappearance (mt102 -120)

56-Ba-133

-99.82 To 2186. %

Cross Section



Incident Energy (eV)

77

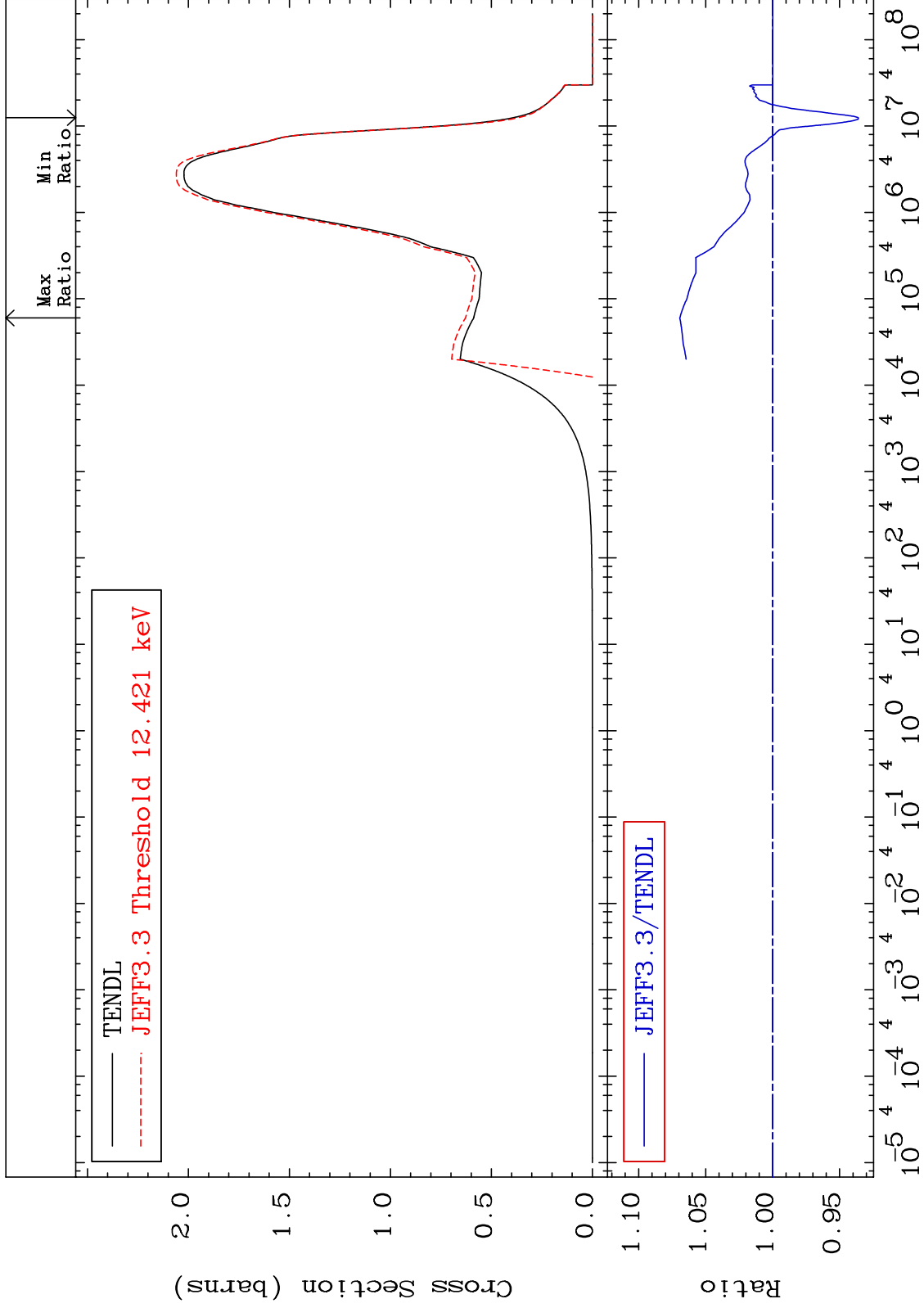
56-Ba-133

MAT 5634

Inelastic: 56-Ba-133

56-Ba-133

Radionuclide Production Cross Section -6.397 To 6.929 %



78

Incident Energy (eV)

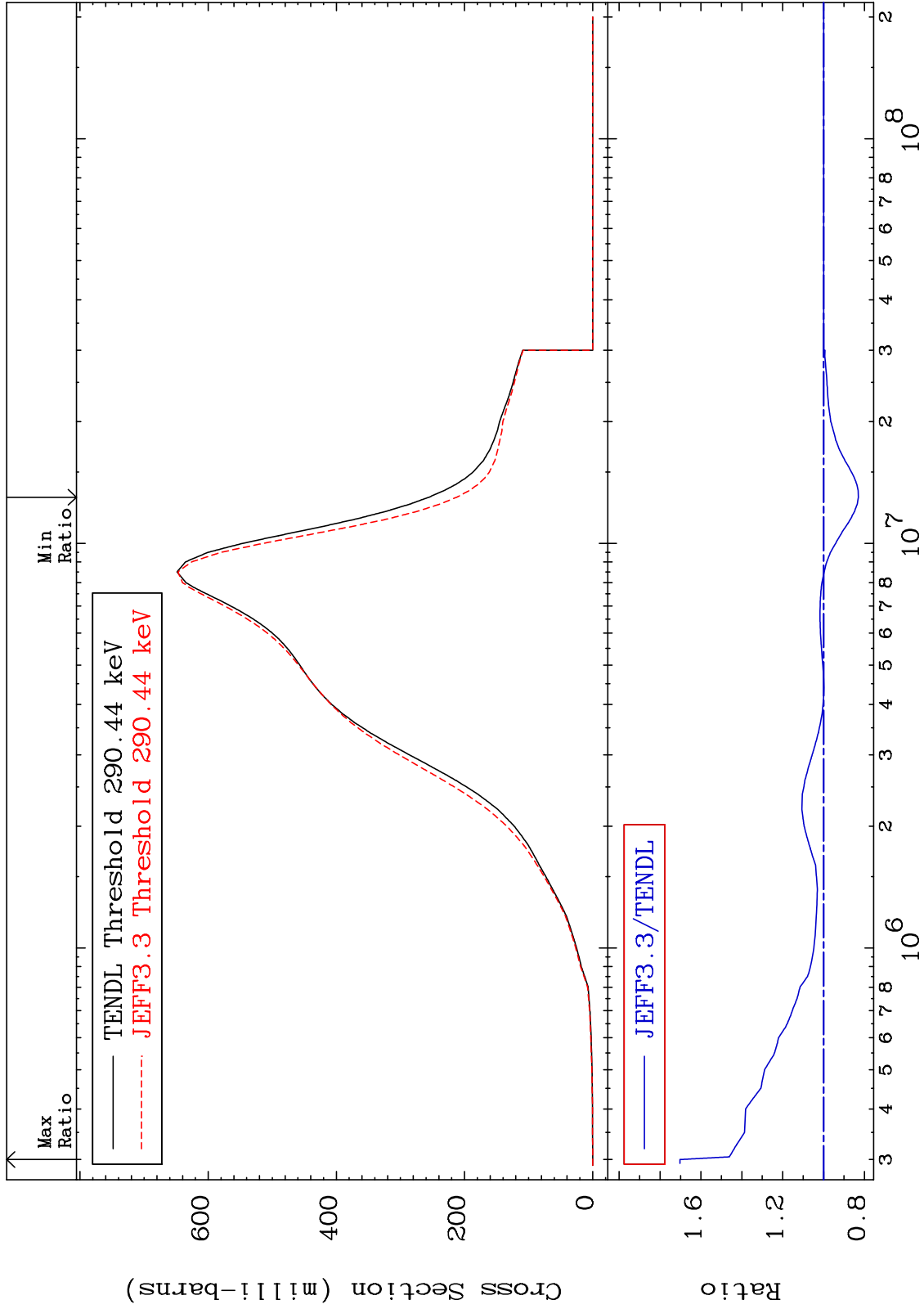
56-Ba-133

MAT 5634

Inelastic:56-Ba-133m2

56-Ba-133

Radionuclide Production Cross Section -17.01 To 70.24 %



79

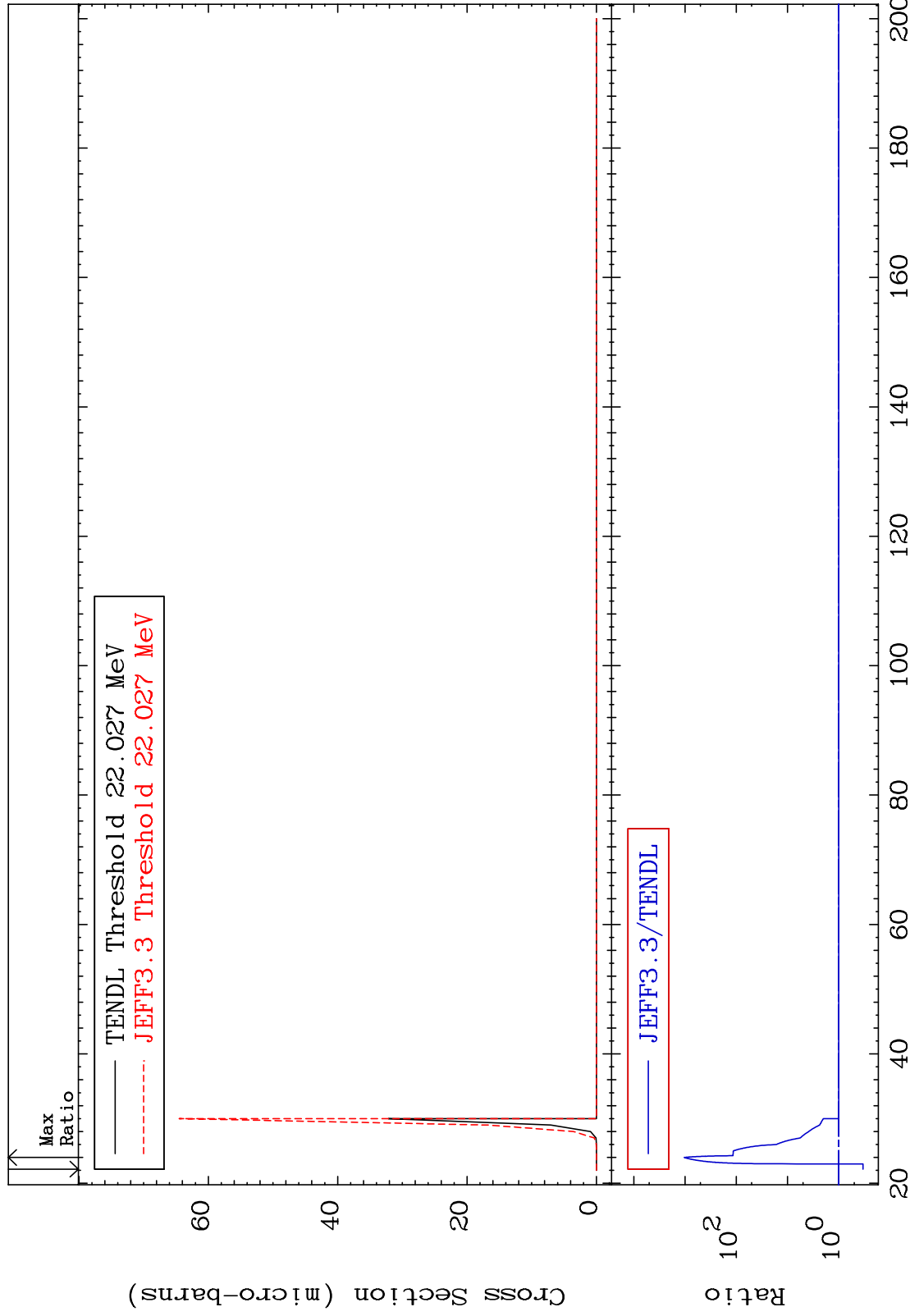
56-Ba-133

MAT 5634

(n,2n) d:55-Cs-130g

56-Ba-133

Radionuclide Production Cross Section -66.40 To 9999. %

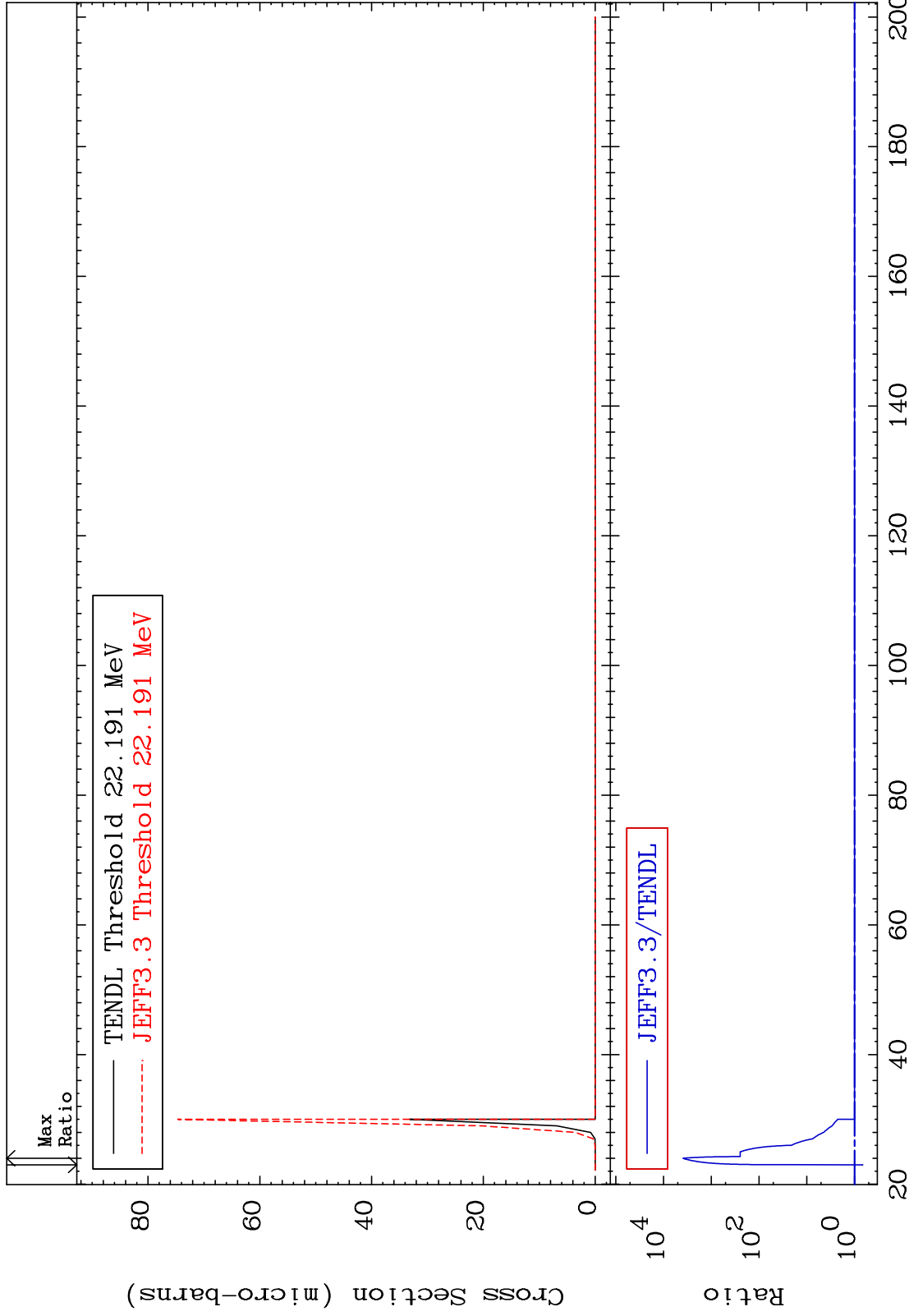


MAT 5634

(n,2n) d:55-Cs-130m4

56-Ba-133

Radionuclide Production Cross Section -30.45 To 9999. %

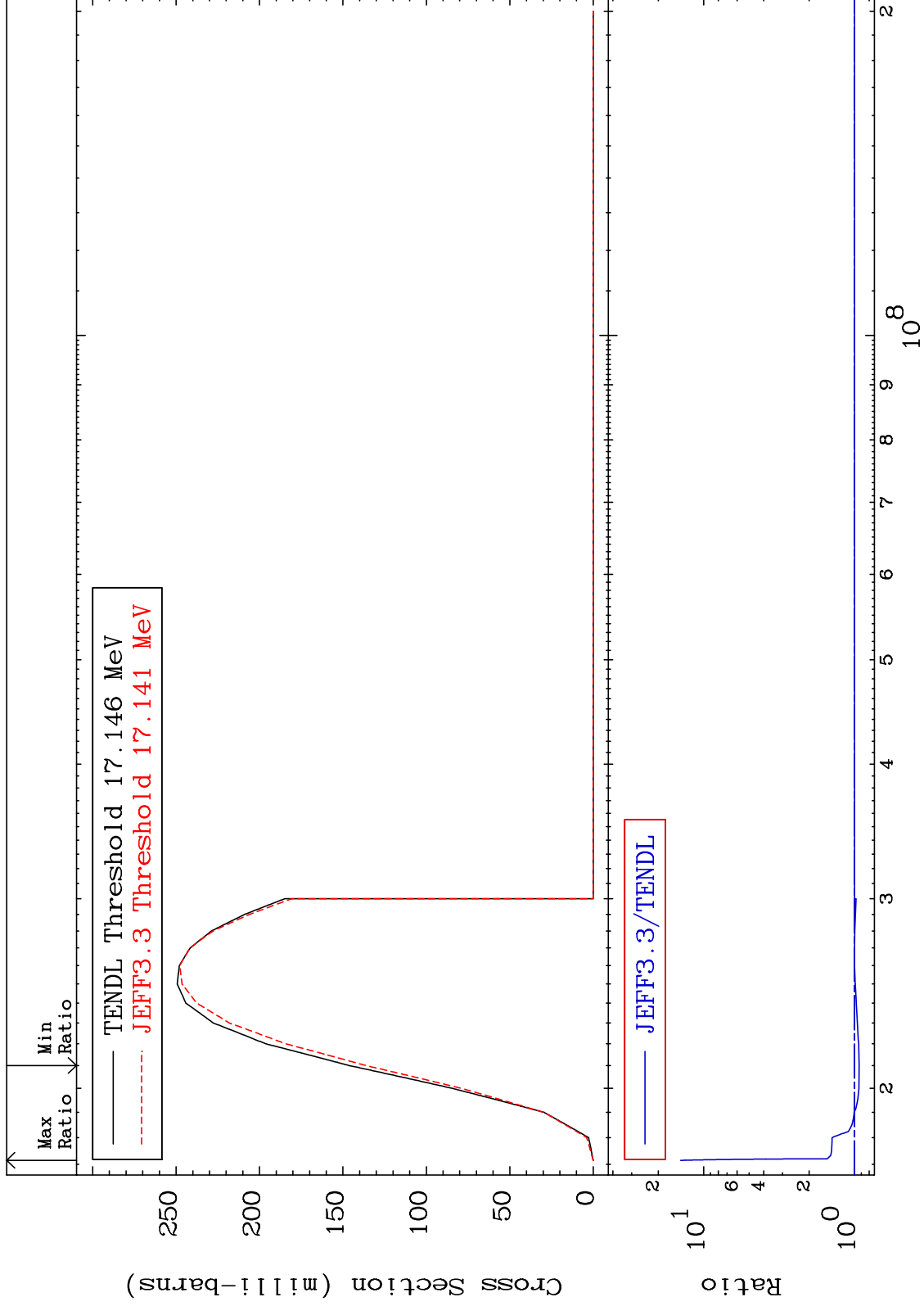


MAT 5634

(n,3n):56-Ba-131g

56-Ba-133

Radionuclide Production Cross Section -6.874 To 1321. %



82

Incident Energy (eV)

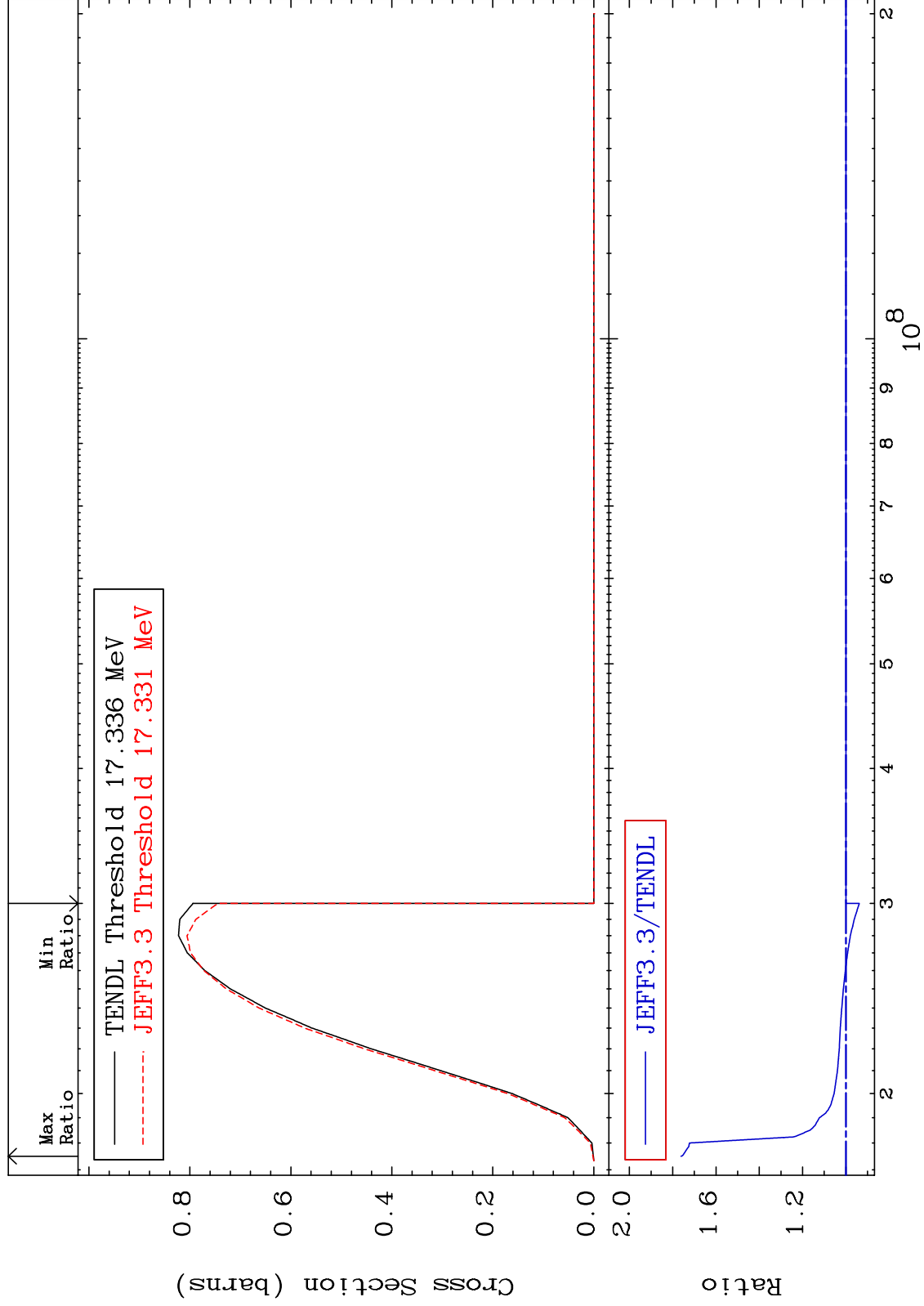
56-Ba-133

MAT 5634

(n, 3n): 56-Ba-131m2

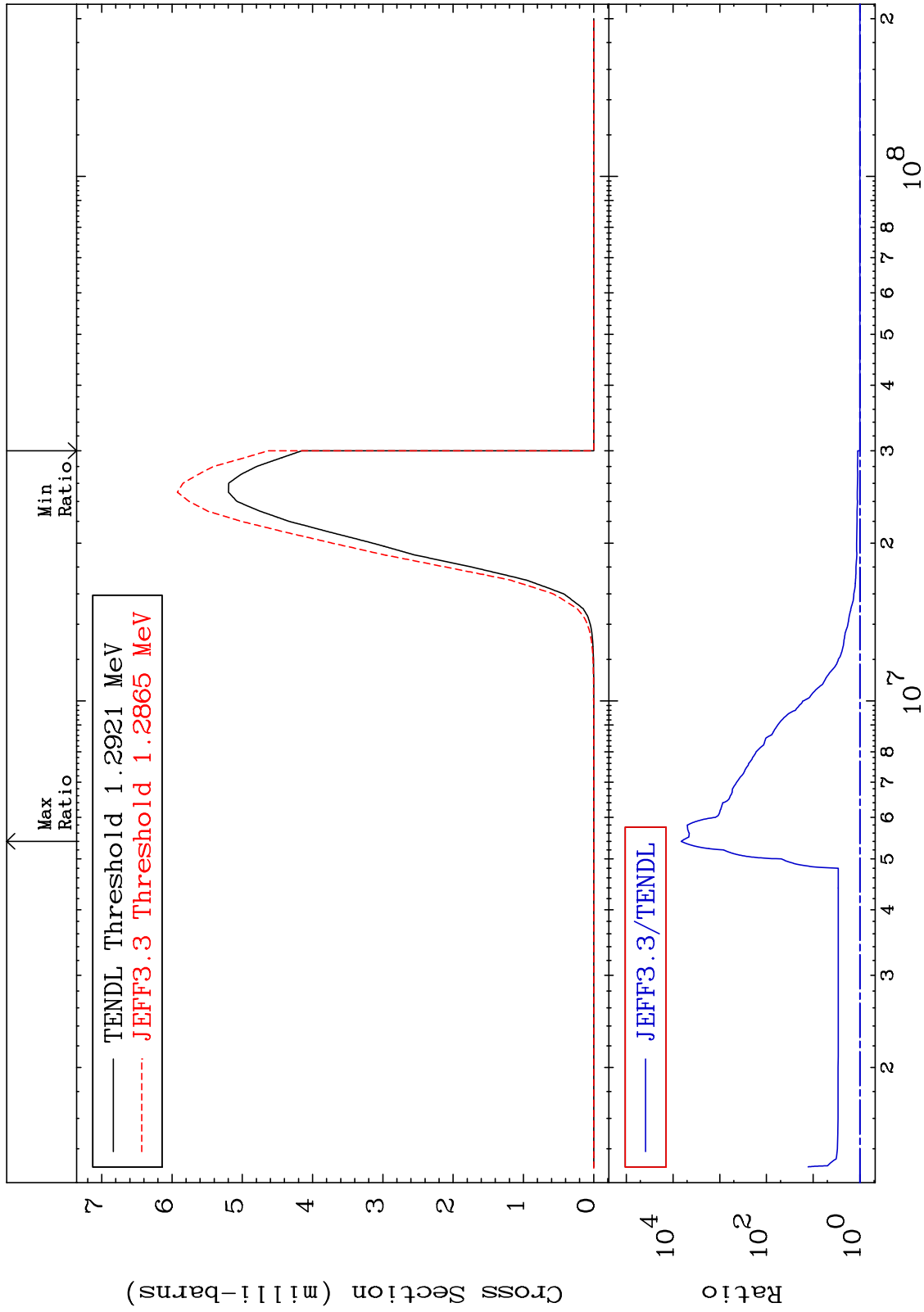
56-Ba-133

Radionuclide Production Cross Section -6.201 To 76.13 %



MAT 5634

(n, n') α :54-Xe-129g 56-Ba-133
Radionuclide Production Cross Section 0.000 To 9999. %

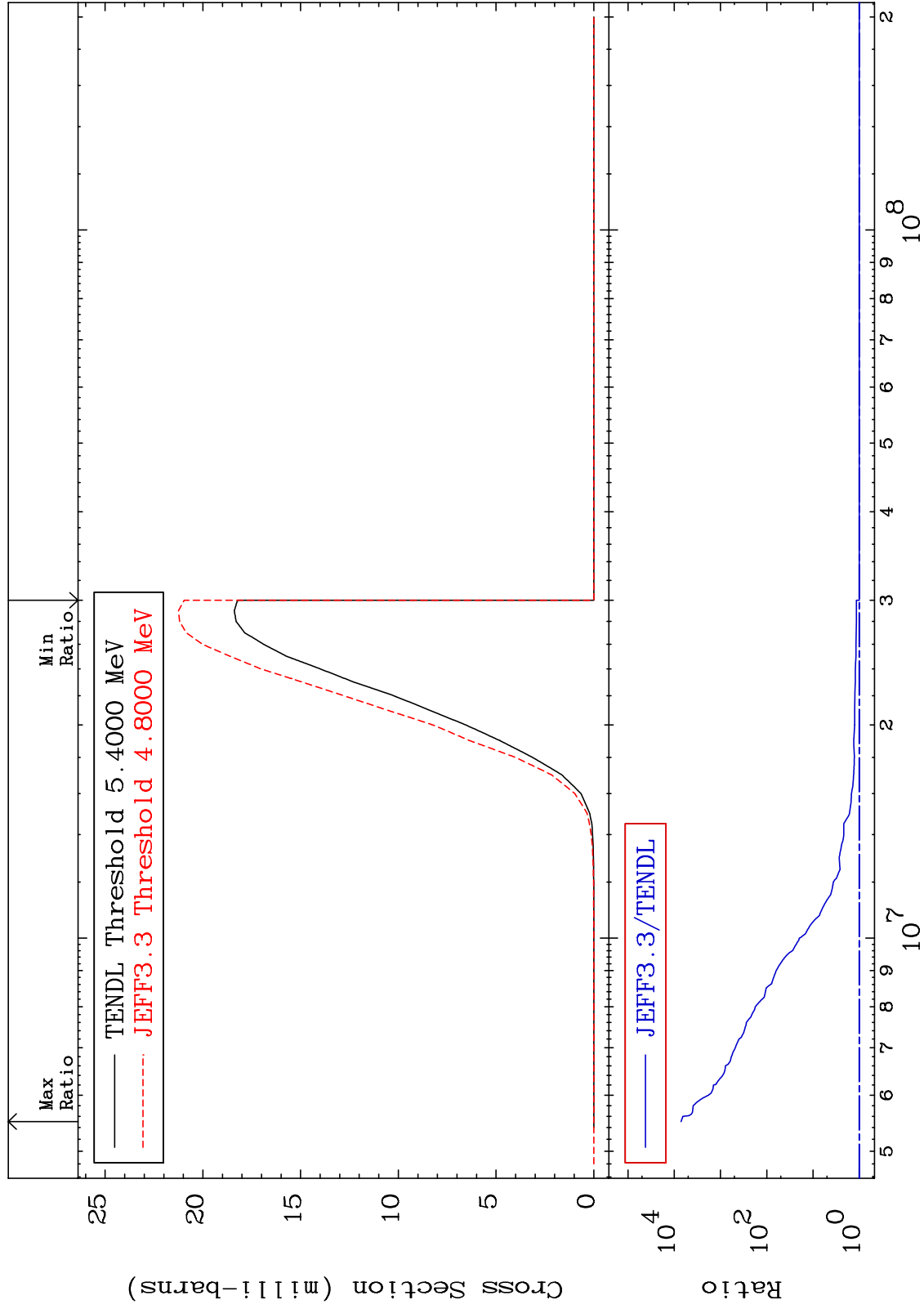


MAT 5634

(n, n') α :54-Xe-129m2

56-Ba-133

Radionuclide Production Cross Section 0.000 To 9999. %



85

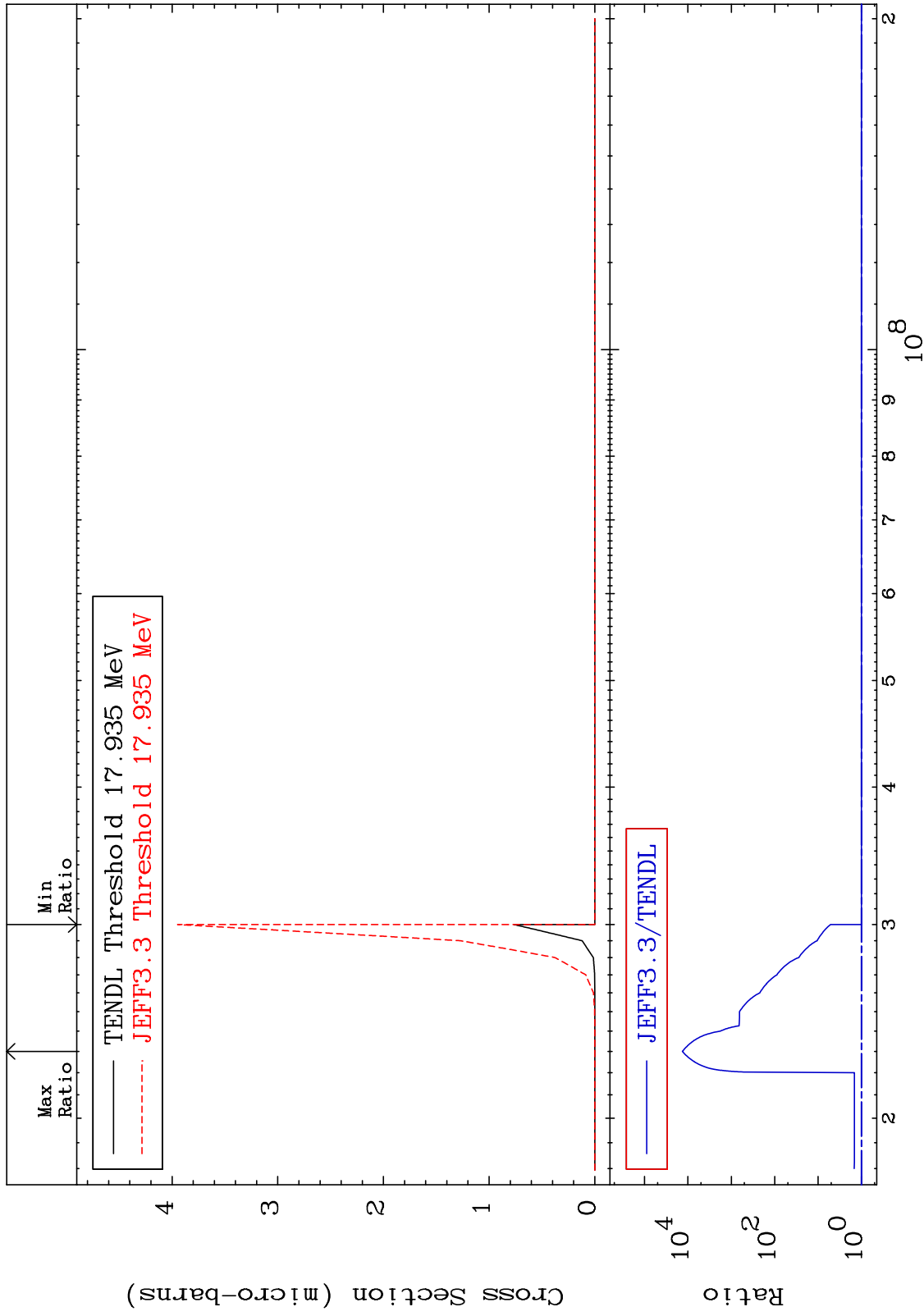
Incident Energy (eV)

56-Ba-133

MAT 5634

(n,3n) α :54-Xe-127g 56-Ba-133

Radionuclide Production Cross Section 0.000 To 9999. %

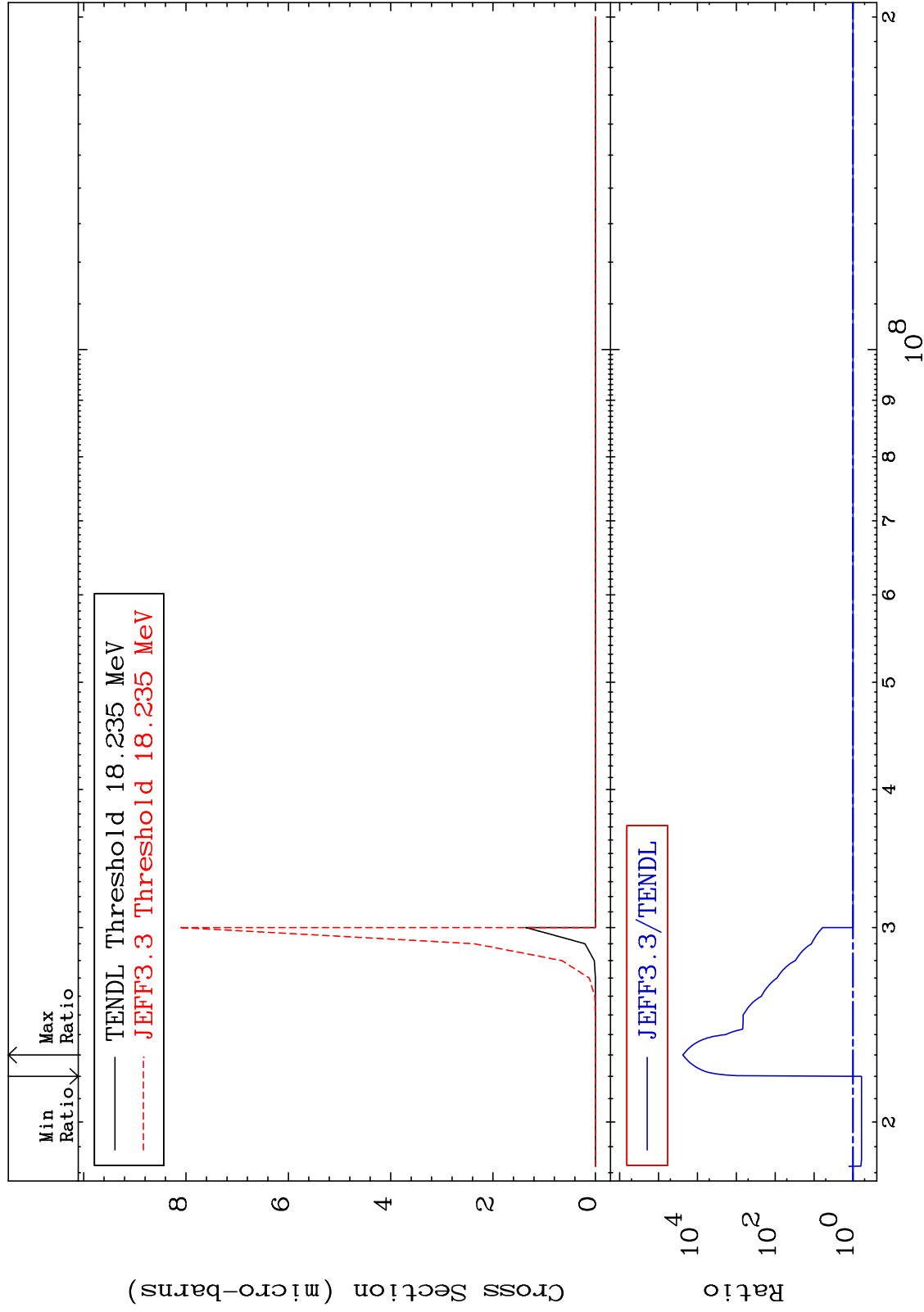


MAT 5634

(n,3n) α :54-Xe-127m2

56-Ba-133

Radionuclide Production Cross Section -40.09 To 9999. %



87

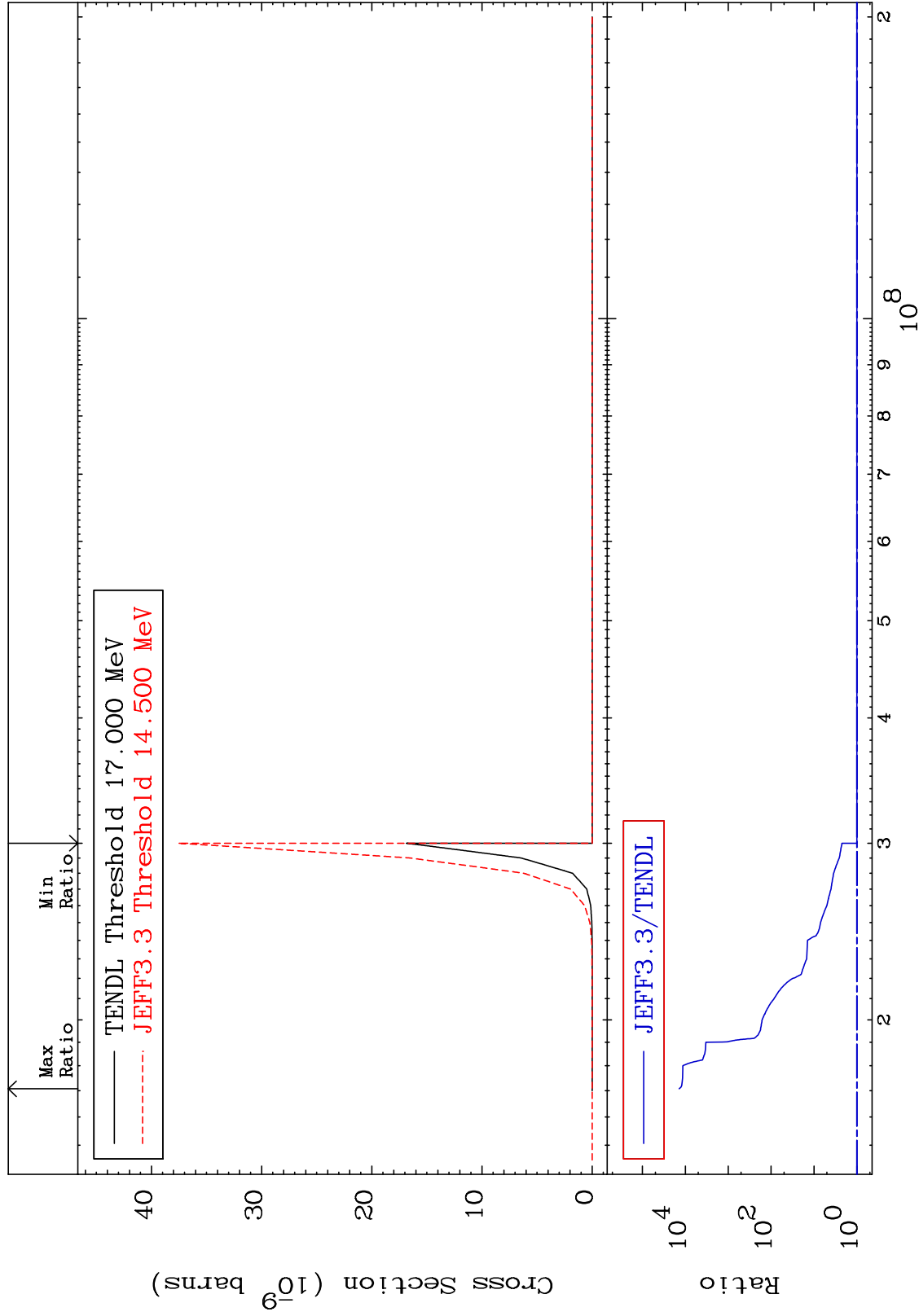
Incident Energy (eV)

56-Ba-133

MAT 5634

(n, n') 2α:52-Te-125g 56-Ba-133

Radionuclide Production Cross Section 0.000 To 9999. %

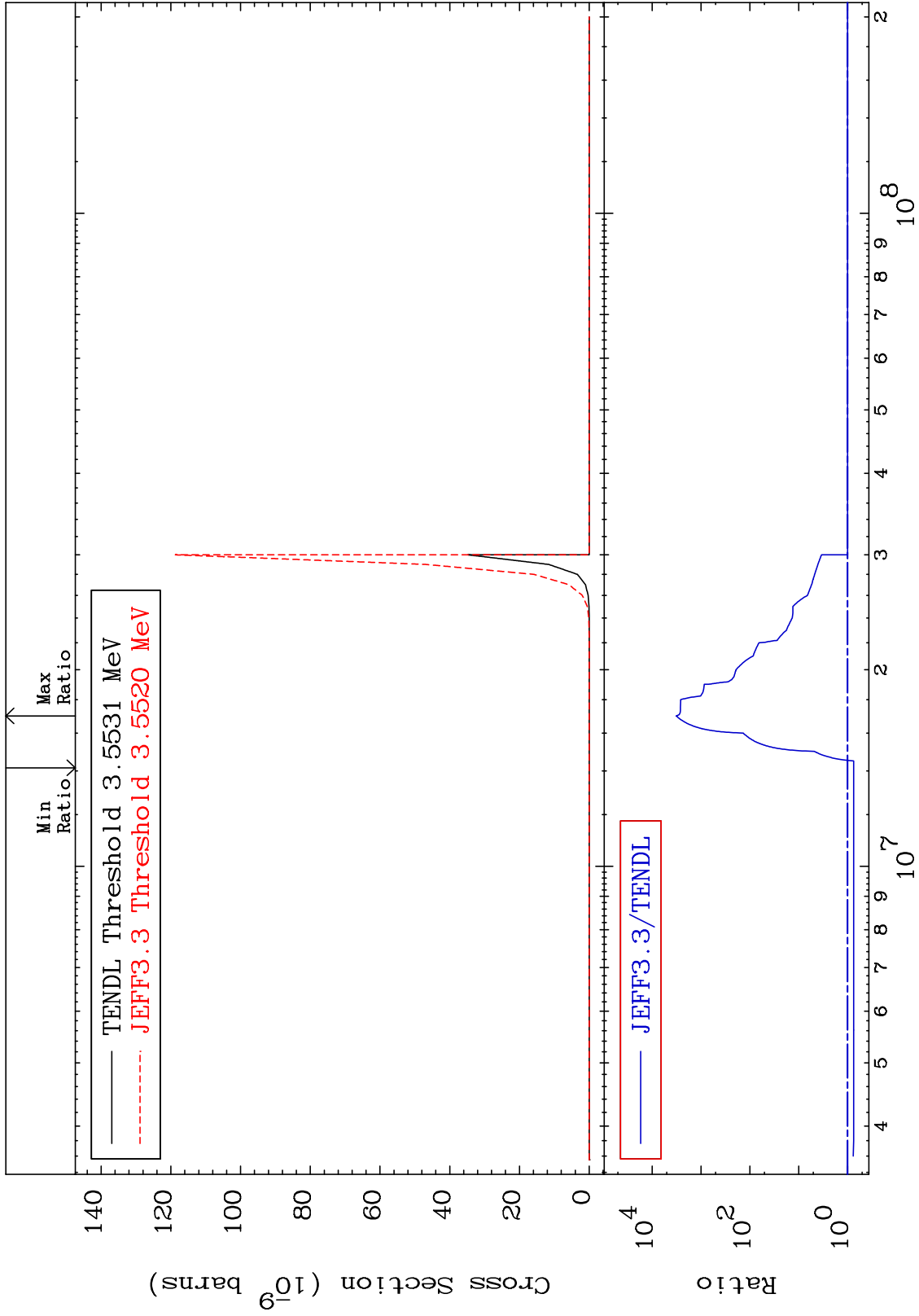


MAT 5634

(n, n') $2\alpha:52\text{-Te-125m2}$

56-Ba-133

Radionuclide Production Cross Section -25.31 To 9999. %

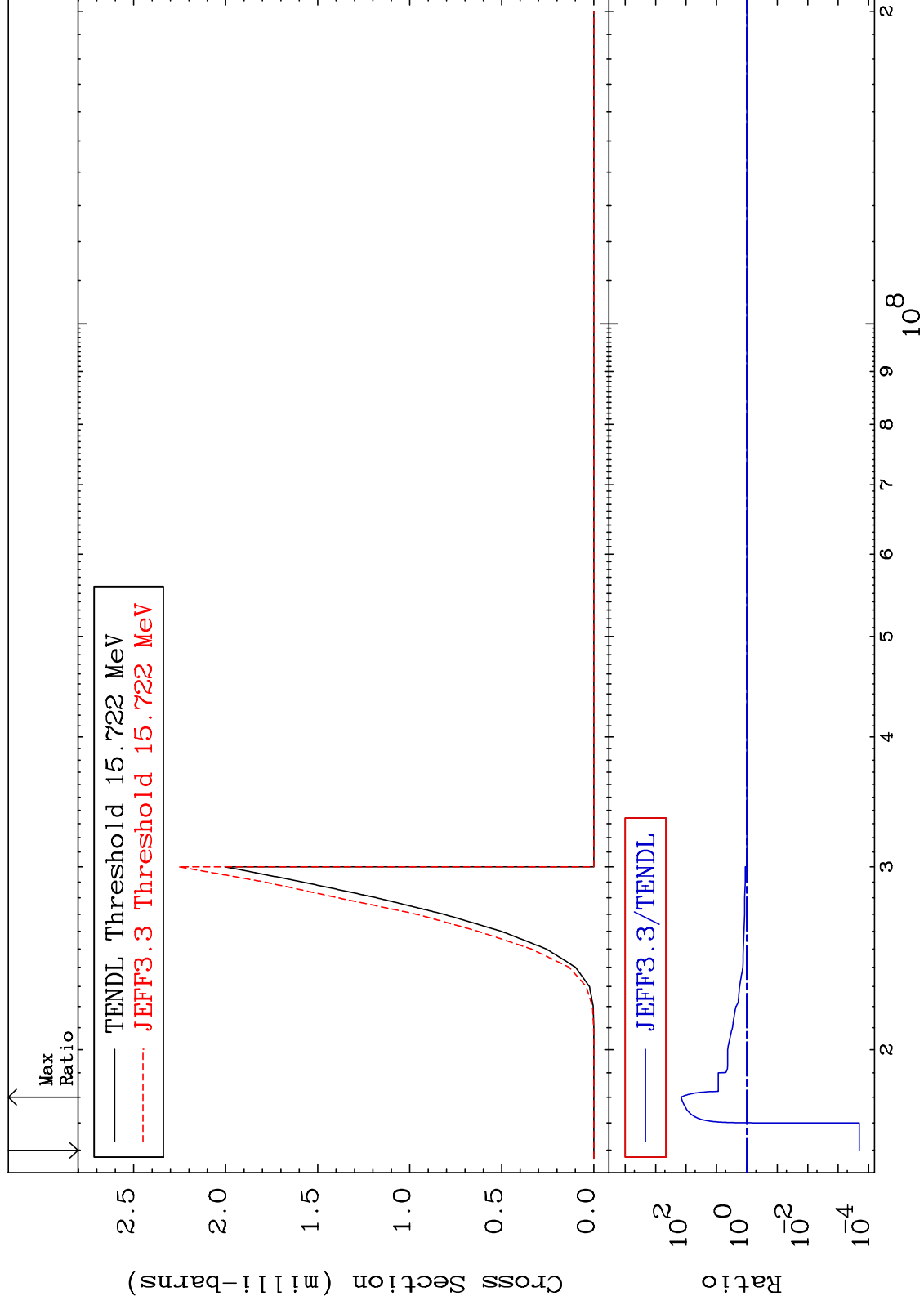


MAT 5634

(n, n') t:55-Cs-130g

56-Ba-133

Radionuclide Production Cross Section -99.98 To 9999. %



90

Incident Energy (eV)

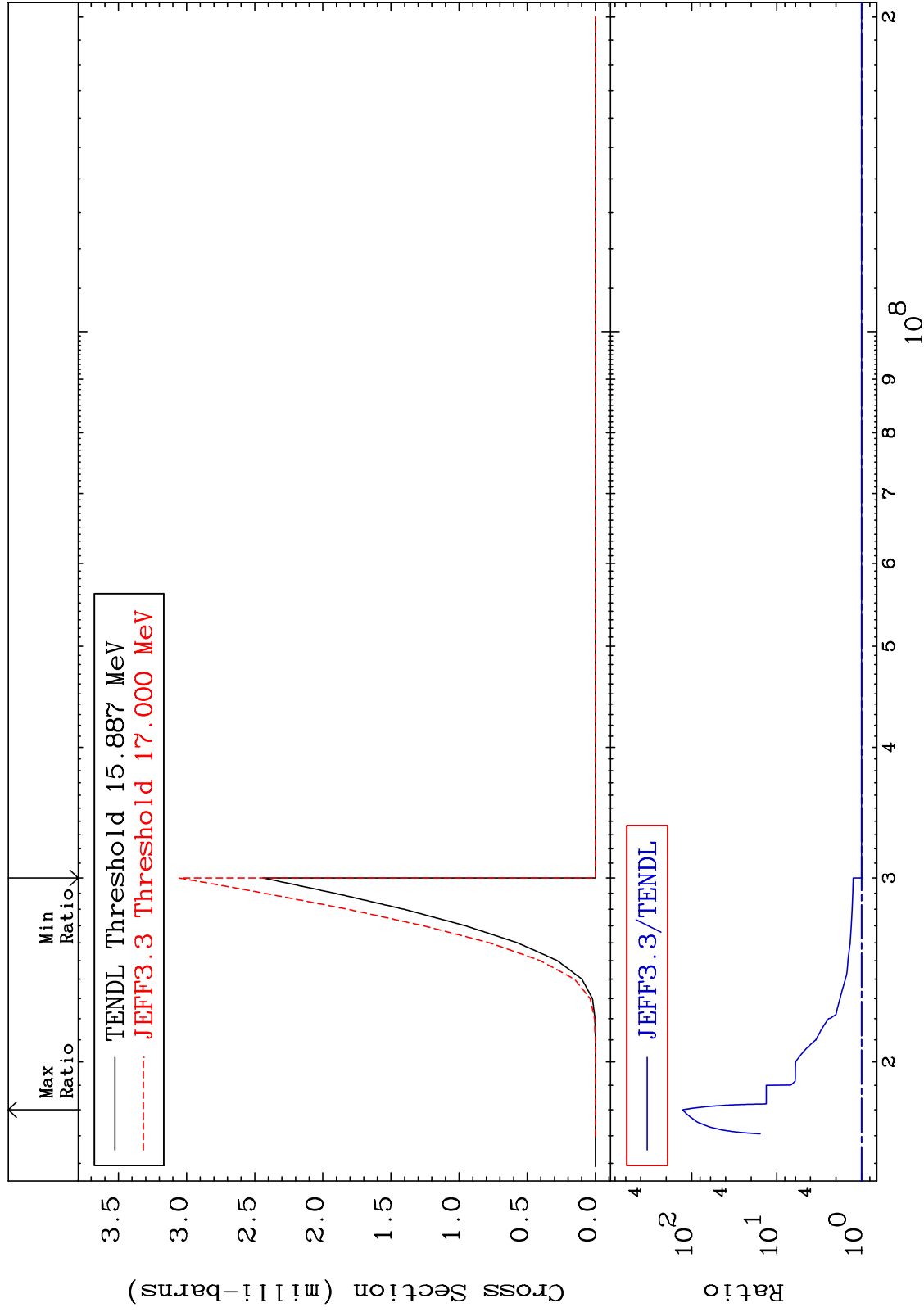
56-Ba-133

MAT 5634

(n, n') t:55-Cs-130m4

56-Ba-133

Radionuclide Production Cross Section 0.000 To 9999. %

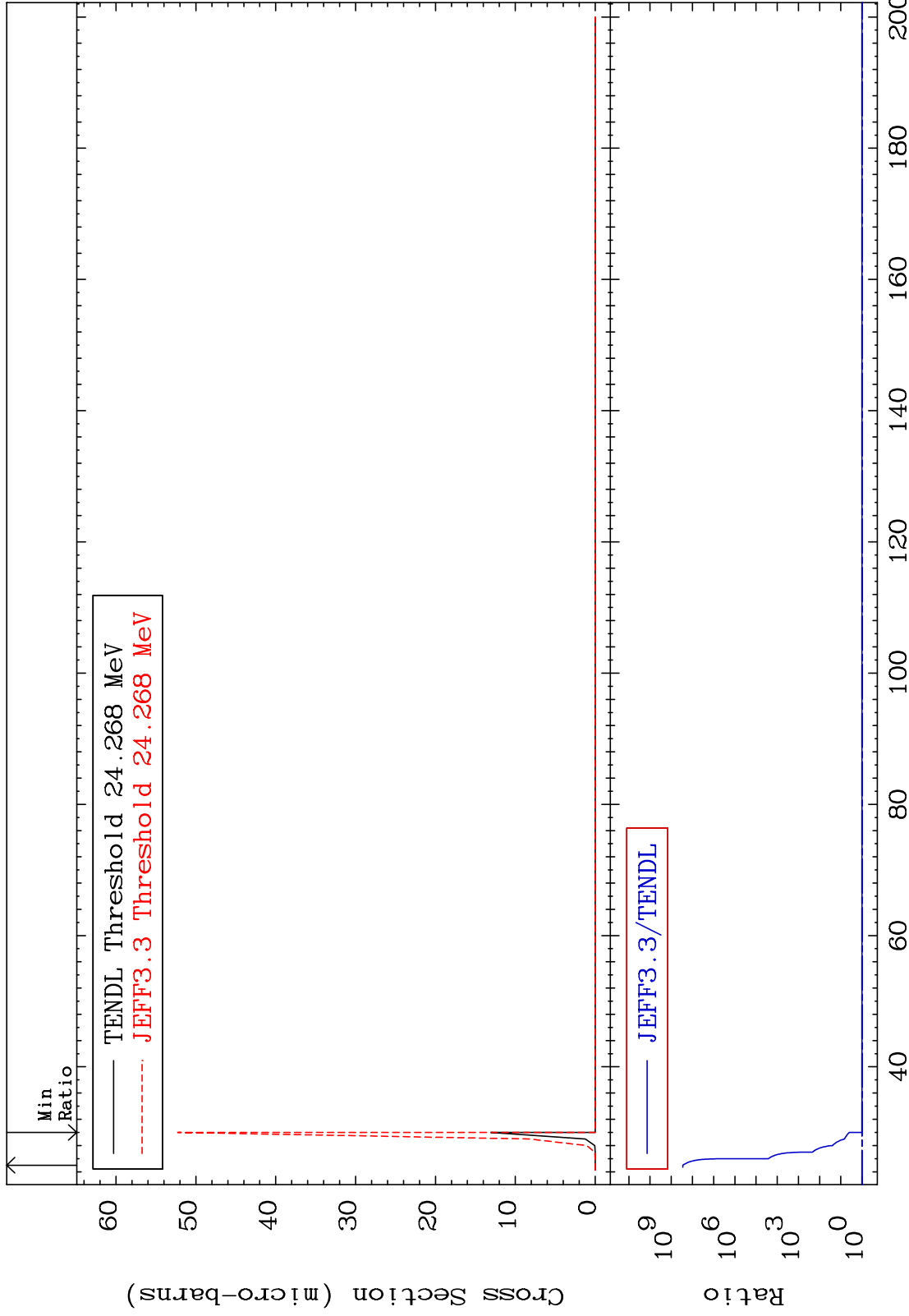


MAT 5634

(n,3n) p:55-Cs-130g

56-Ba-133

Radionuclide Production Cross Section 0.000 To 9999. %

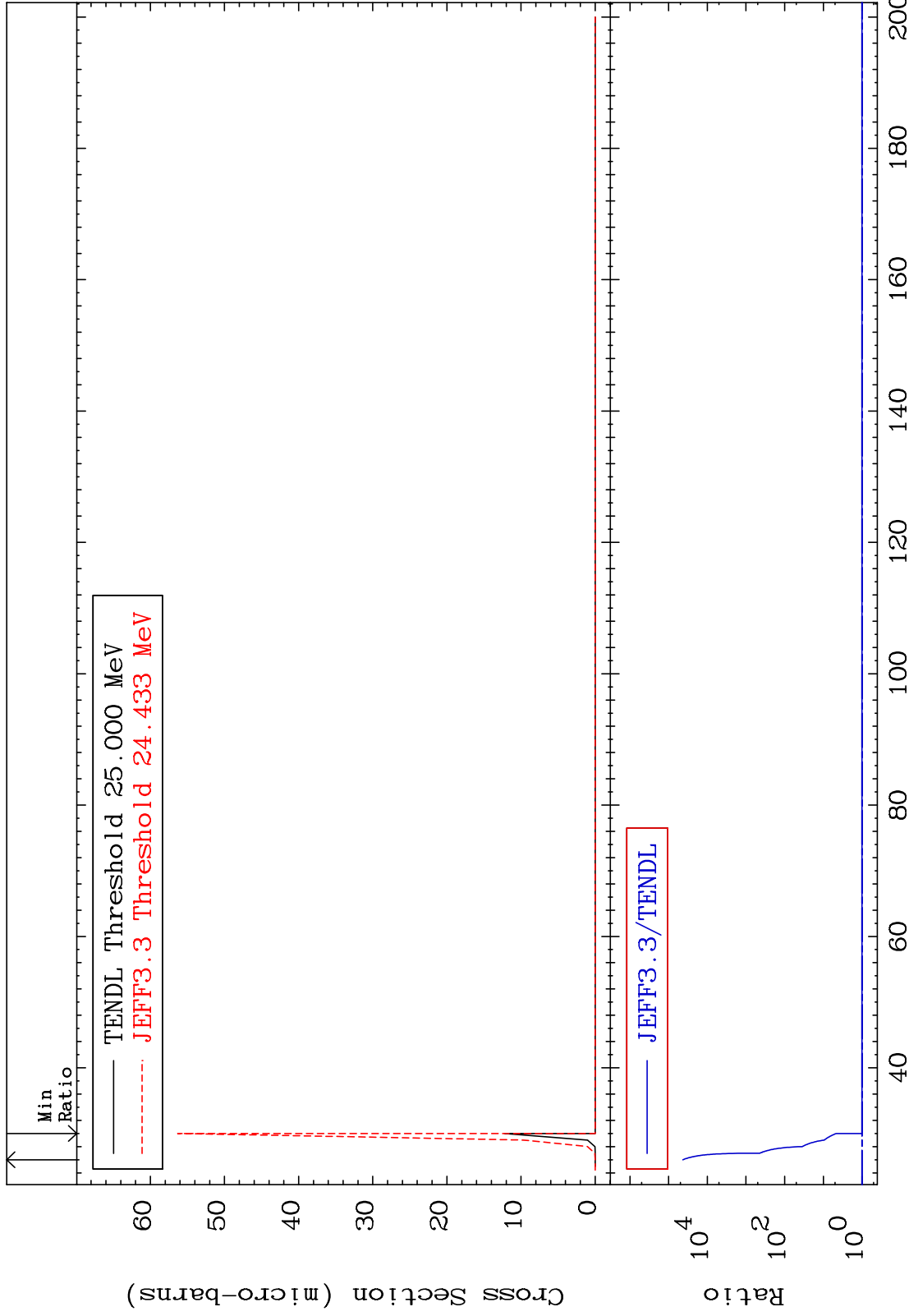


MAT 5634

(n,3n) p:55-Cs-130m4

56-Ba-133

Radionuclide Production Cross Section 0.000 To 9999. %

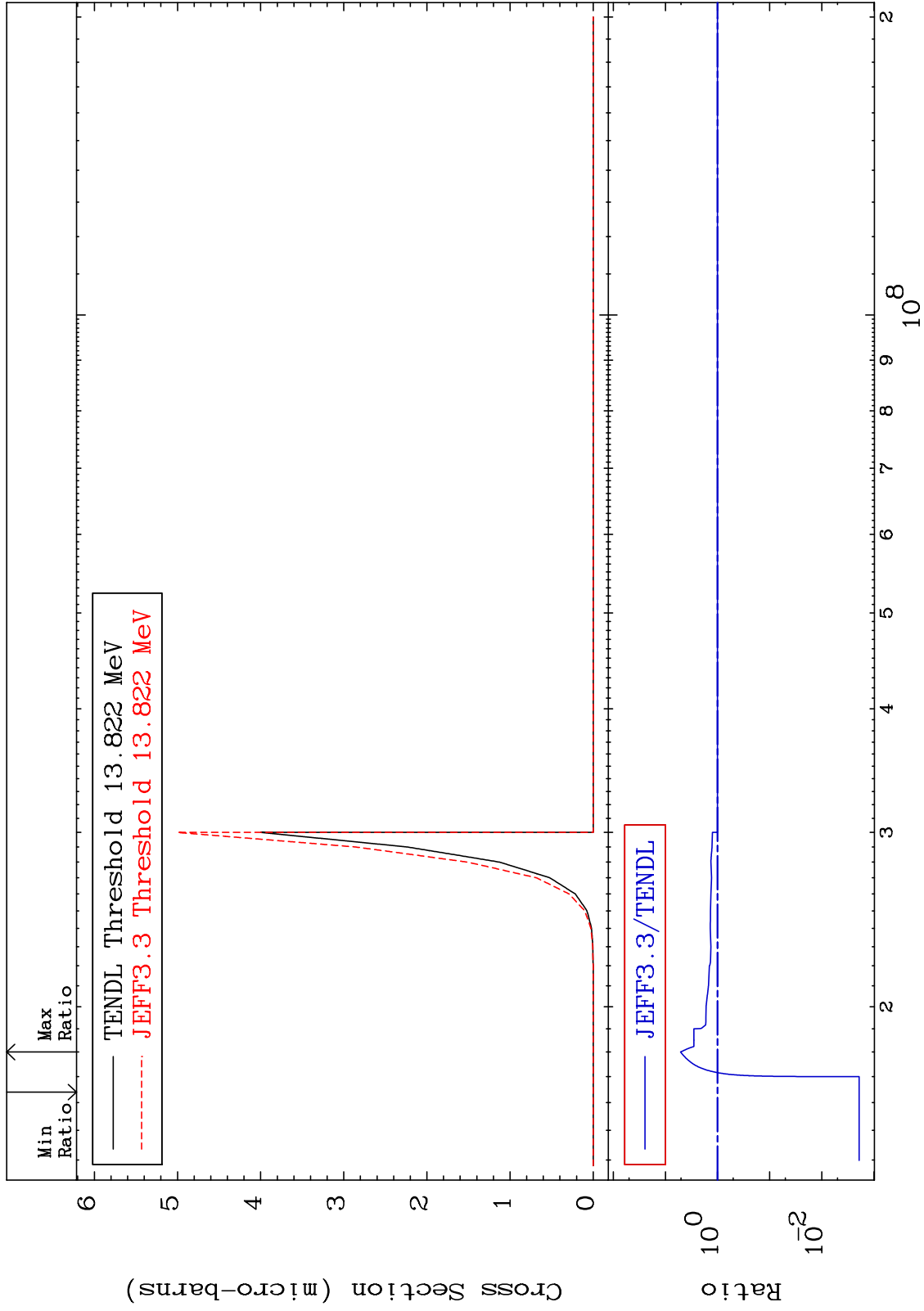


MAT 5634

(n,2n) p:54-Xe-131g

56-Ba-133

Radionuclide Production Cross Section -99.81 To 410.6 %

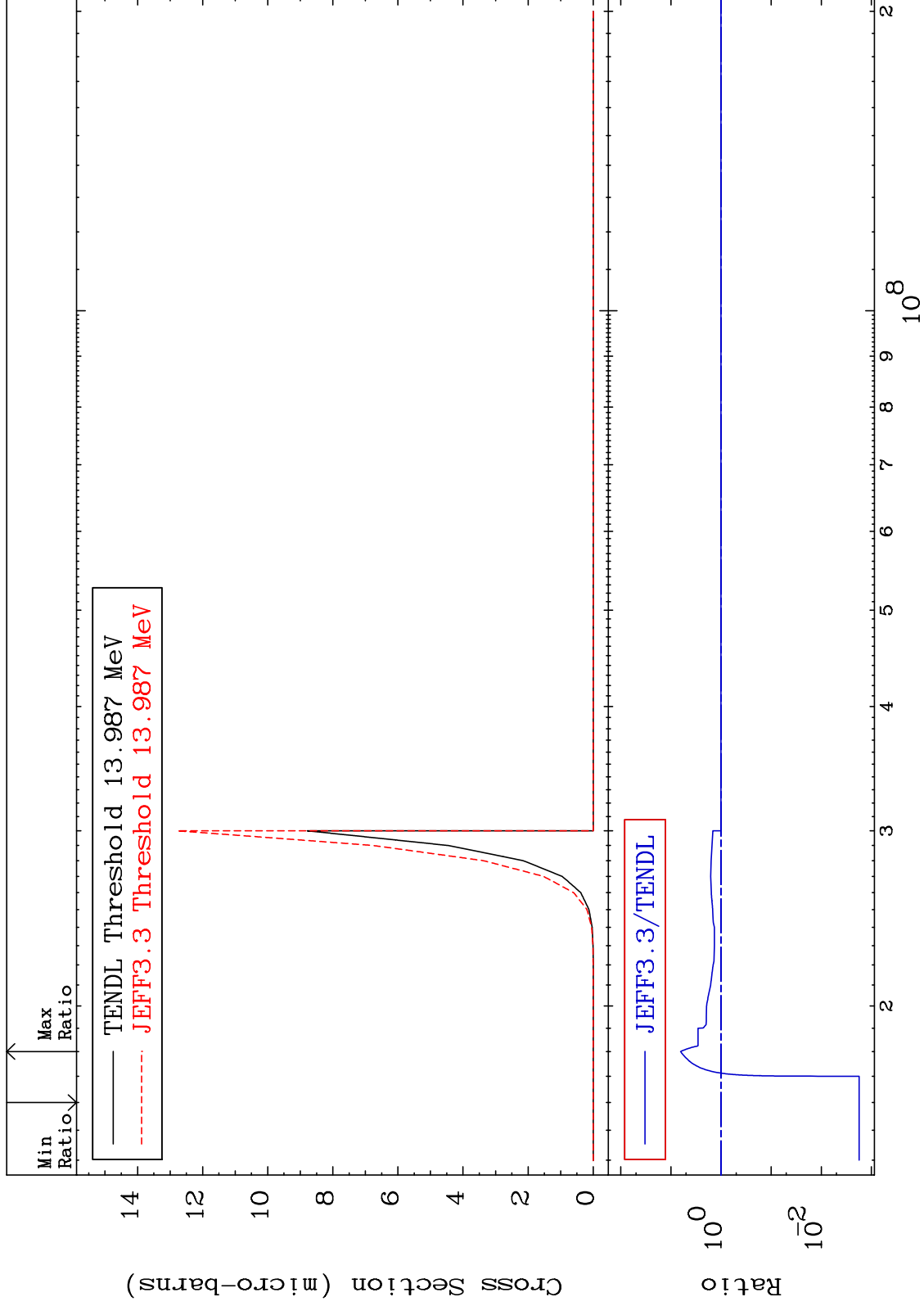


MAT 5634

(n,2n) p:54-Xe-131m2

56-Ba-133

Radionuclide Production Cross Section -99.82 To 540.8 %

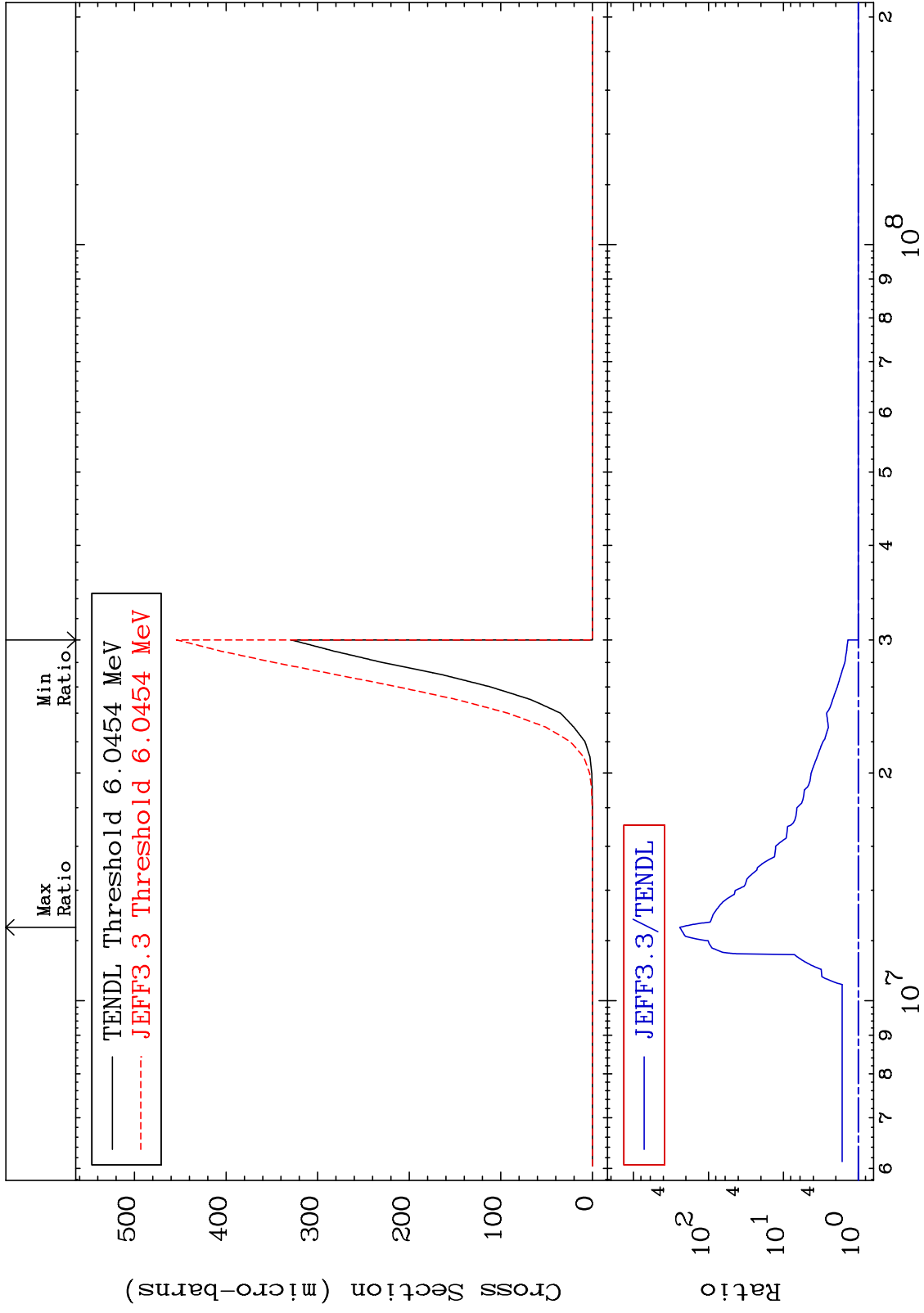


MAT 5634

56-Ba-133

(n, He-3):54-Xe-131g

Radionuclide Production Cross Section 0.000 To 9999. %



96

Incident Energy (eV)

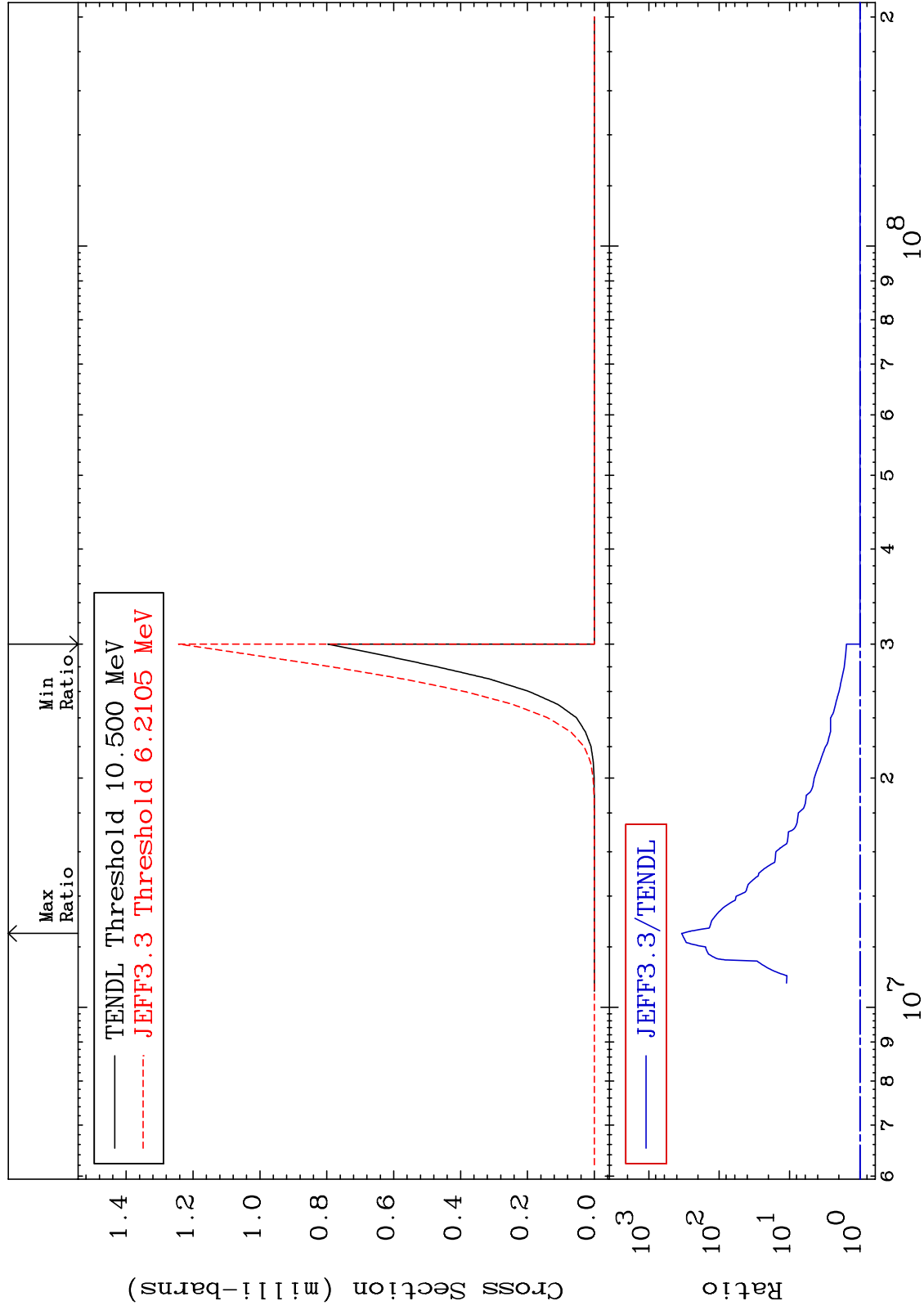
56-Ba-133

MAT 5634

(n, He-3) : 54-Xe-131m2

56-Ba-133

Radionuclide Production Cross Section 0.000 To 9999. %



97

Incident Energy (eV)

56-Ba-133

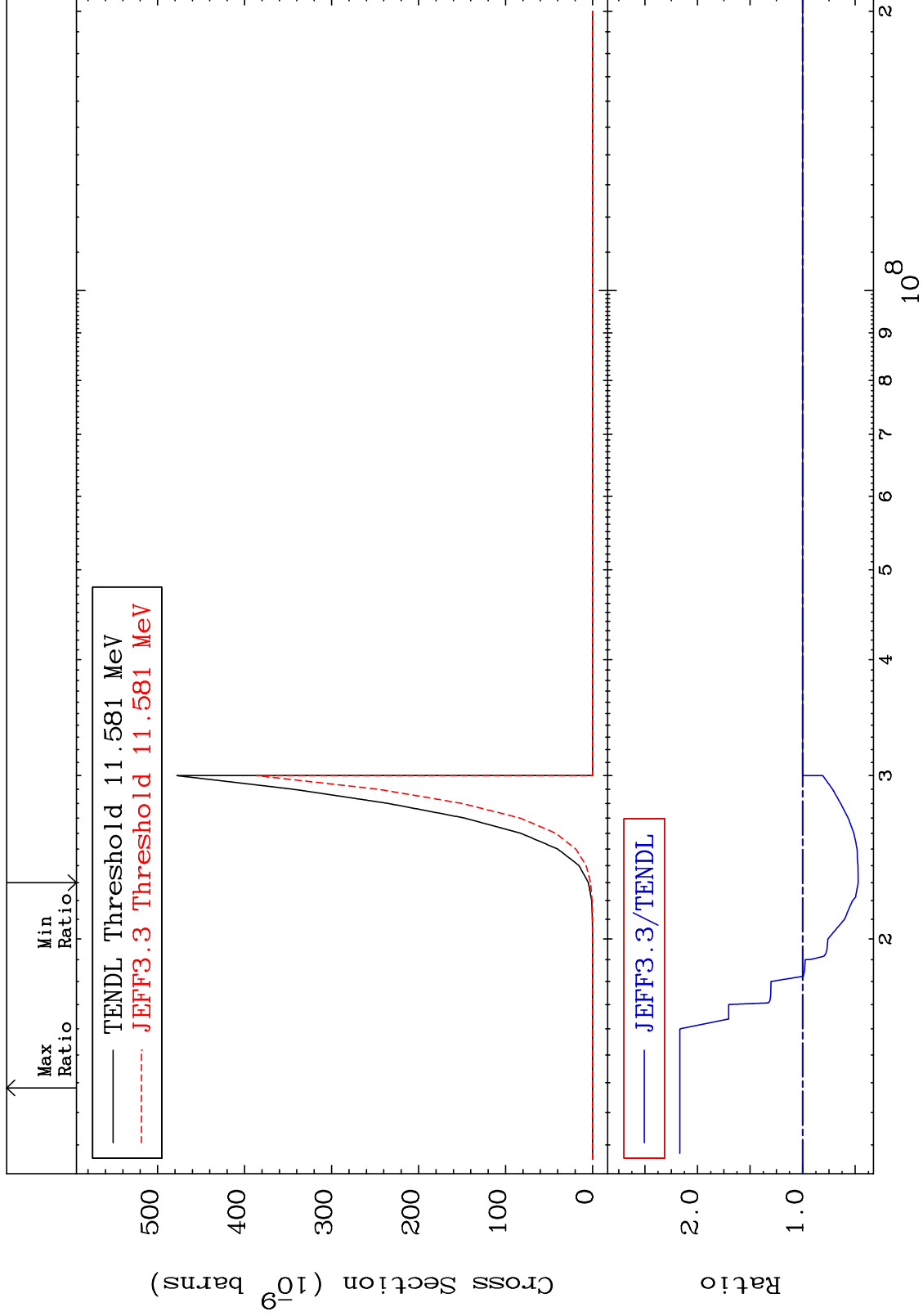
MAT 5634

(n, p) d:54-Xe-131g

56-Ba-133

Radionuclide Production Cross Section

-52.86 To 116.8 %



MAT 5634

(n,p) d:54-Xe-131m2

56-Ba-133

Radionuclide Production Cross Section -52.33 To 156.4 %

