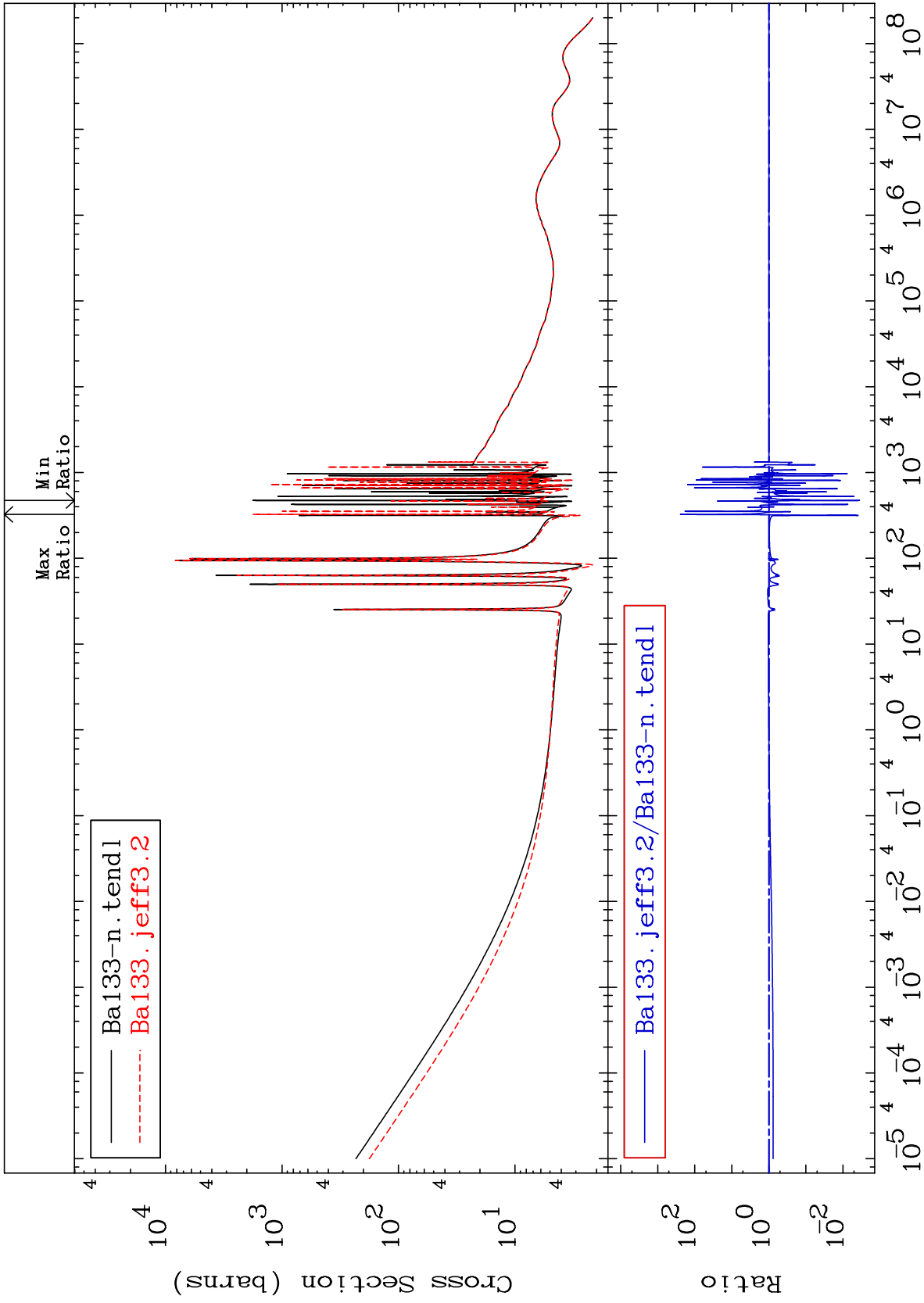


MAT 5634

56-Ba-133

-99.64 To 9999. %

Total
Cross Section



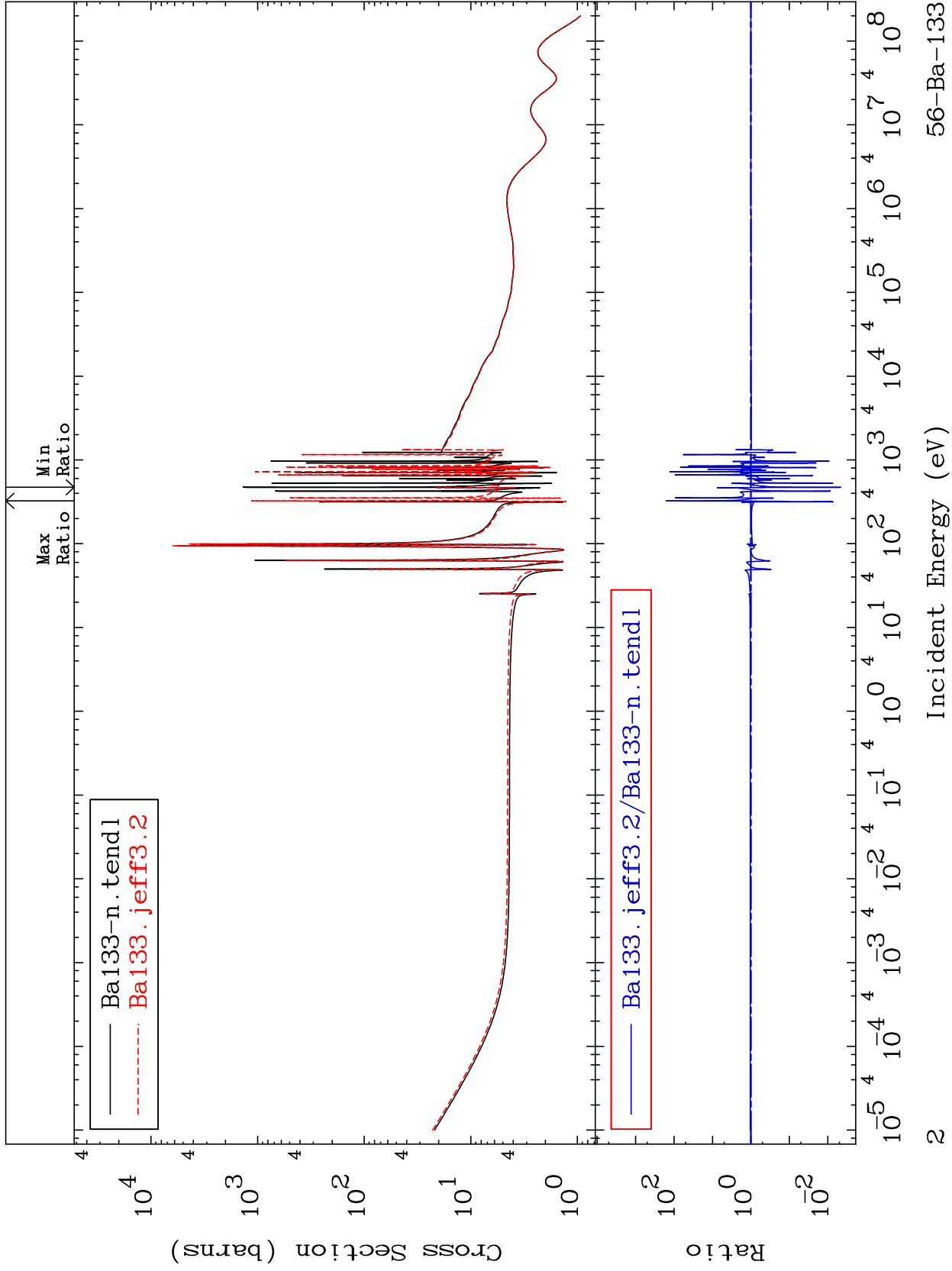
Incident Energy (eV)

56-Ba-133

MAT 5634

Elastic
Cross Section

56-Ba-133
-99.54 To 9999. %



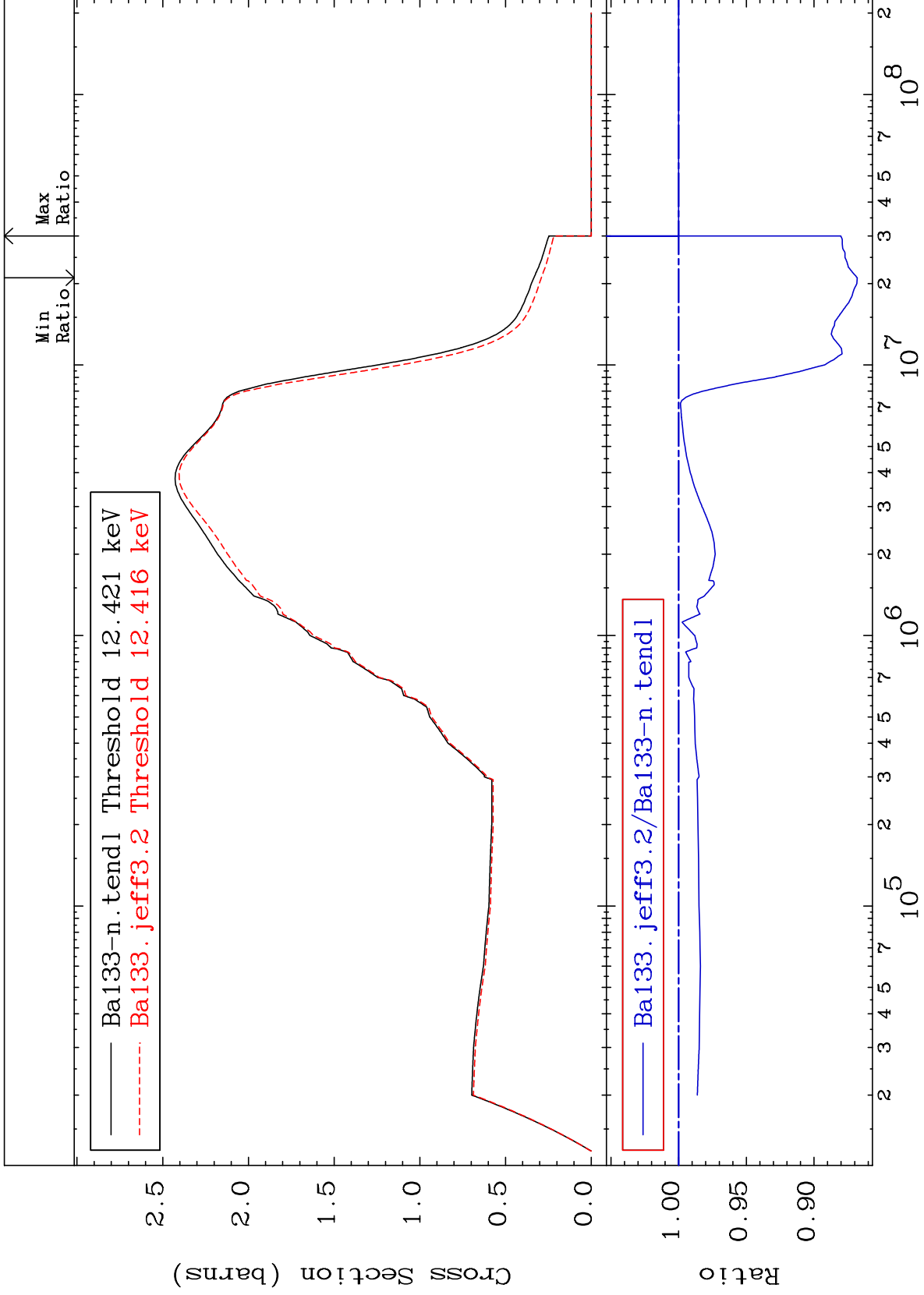
Incident Energy (eV)

56-Ba-133

MAT 5634

Inelastic
Cross Section

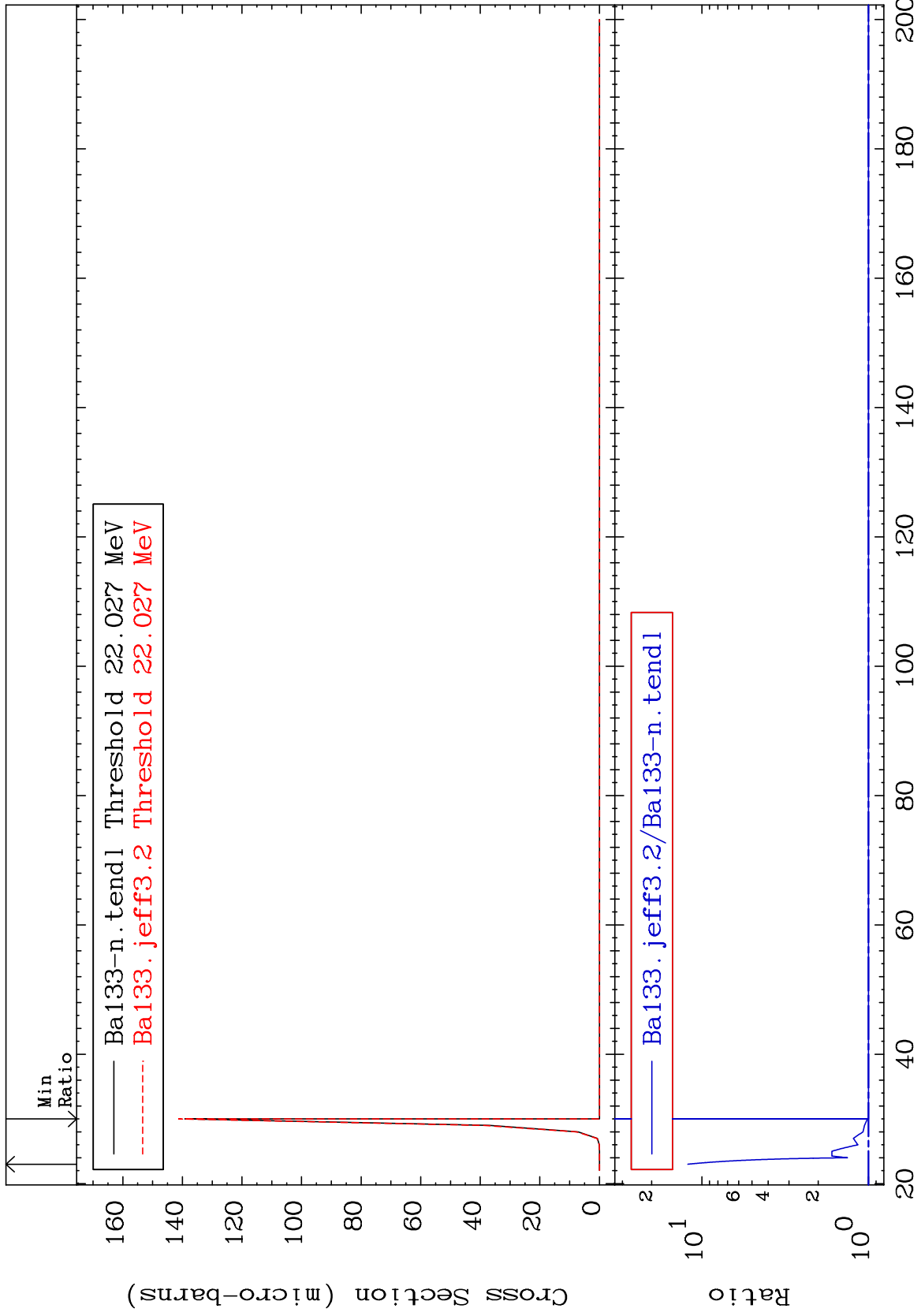
56-Ba-133
-13.19 To 0.000 %



MAT 5634

(n,2n) d
Cross Section

56-Ba-133
To 1113. %
0.000



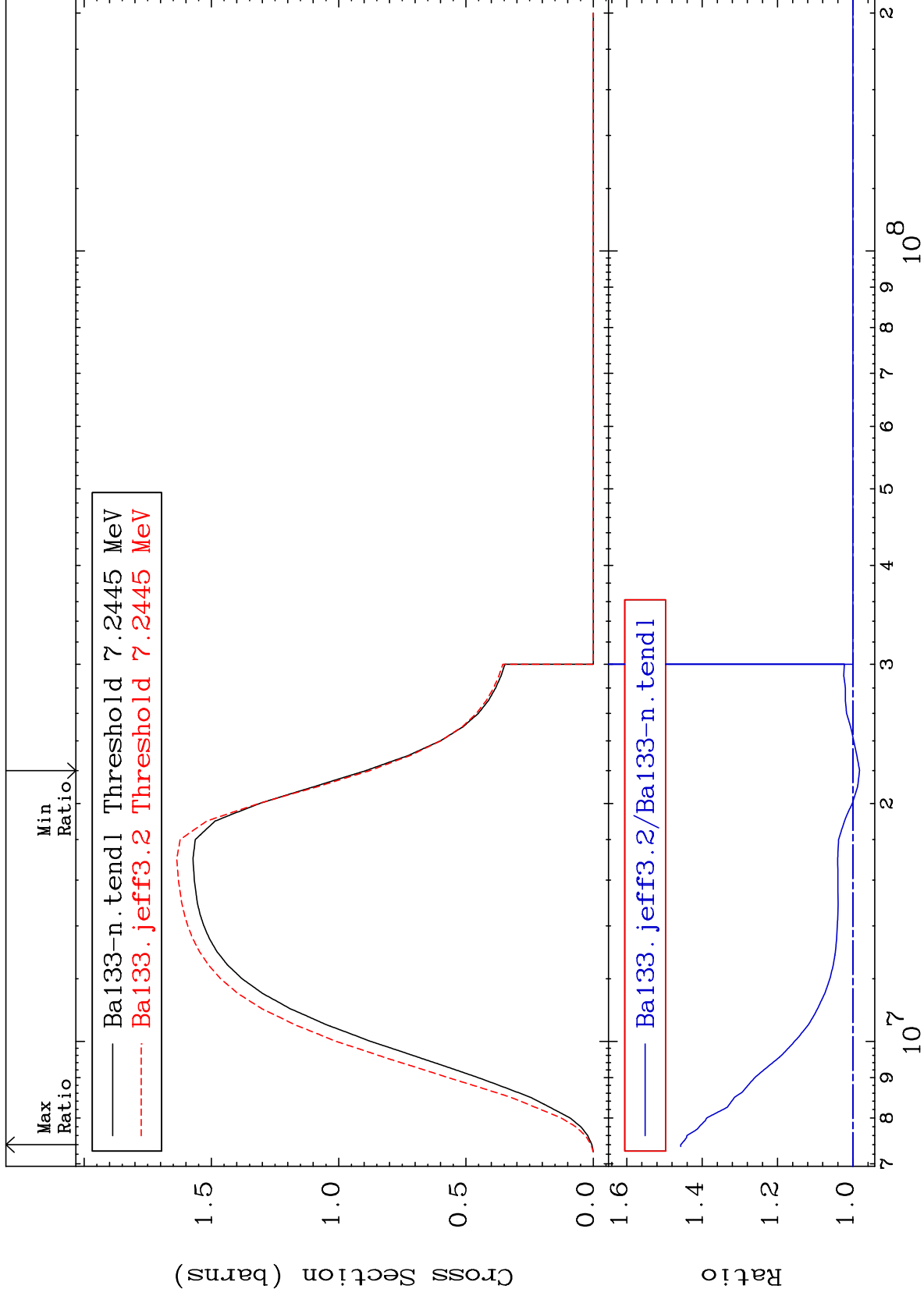
MAT 5634

(n,2n)

56-Ba-133

Cross Section

-1.753 To 45.68 %



5

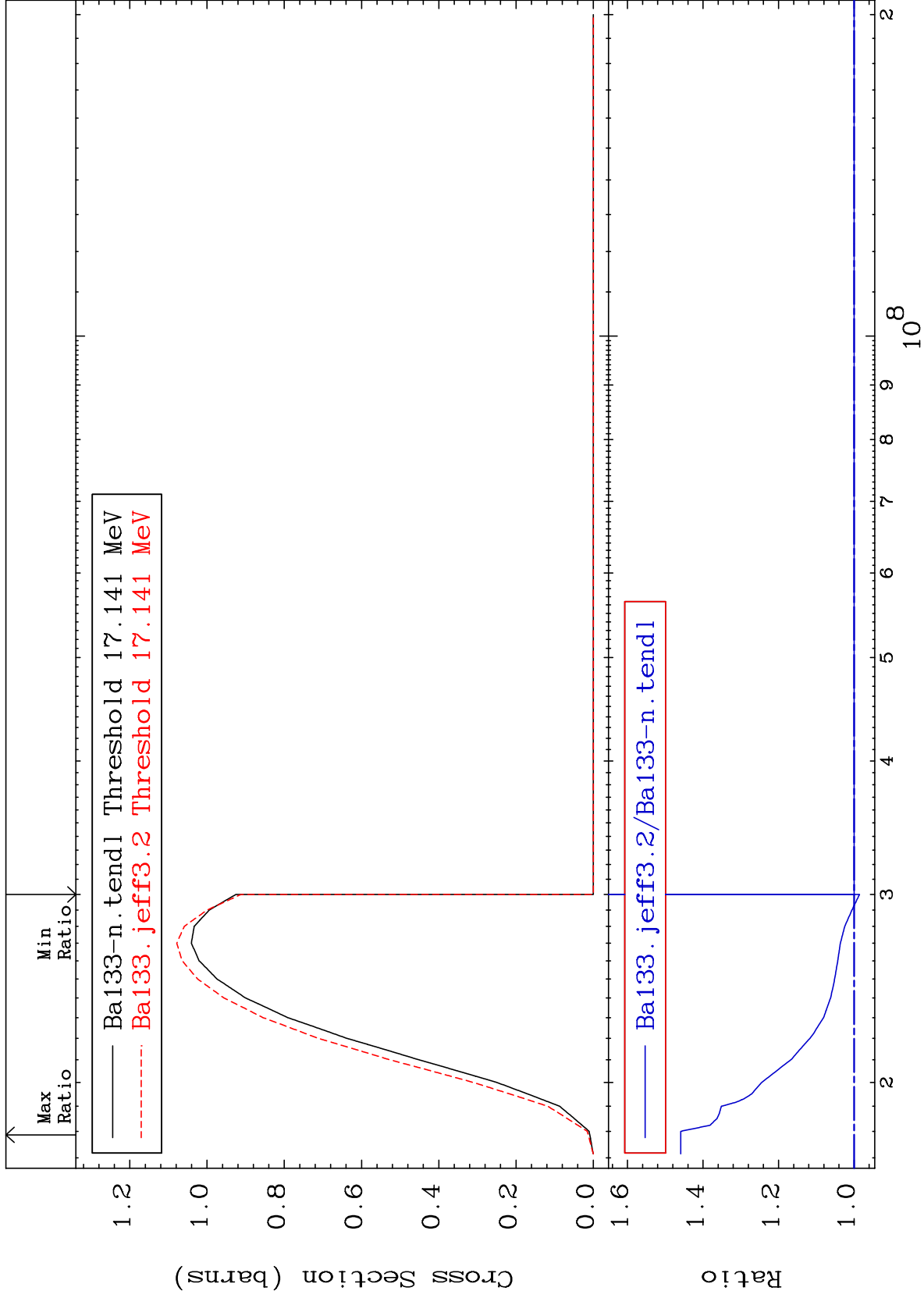
Incident Energy (eV)

56-Ba-133

MAT 5634

(n,3n)
Cross Section

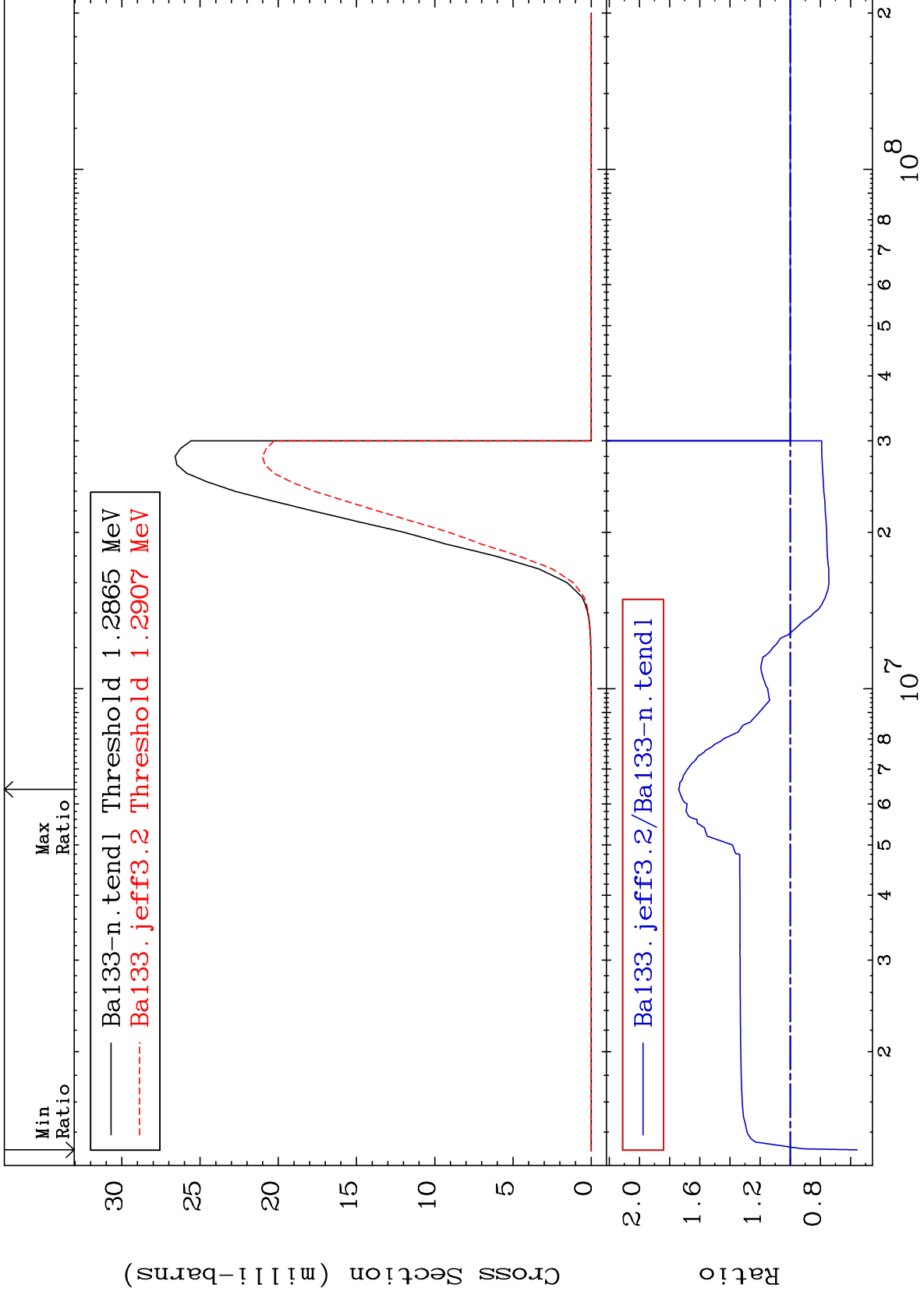
56-Ba-133
-1.445 To 45.89 %



MAT 5634

(n, n') α
Cross Section

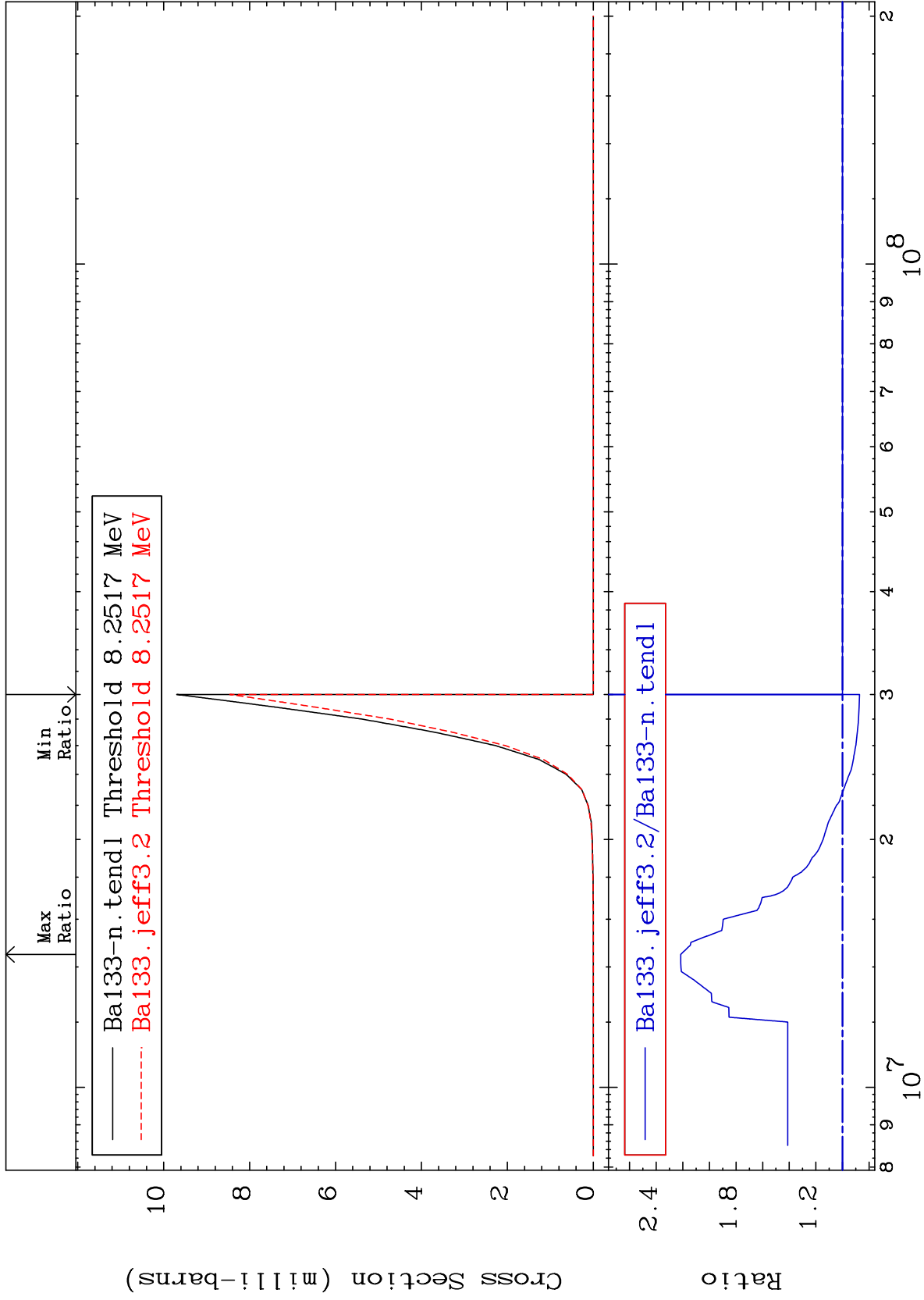
56-Ba-133
-44.42 To 74.04 %



MAT 5634

(n,2n) α
Cross Section

56-Ba-133
-12.78 To 121.5 %



8

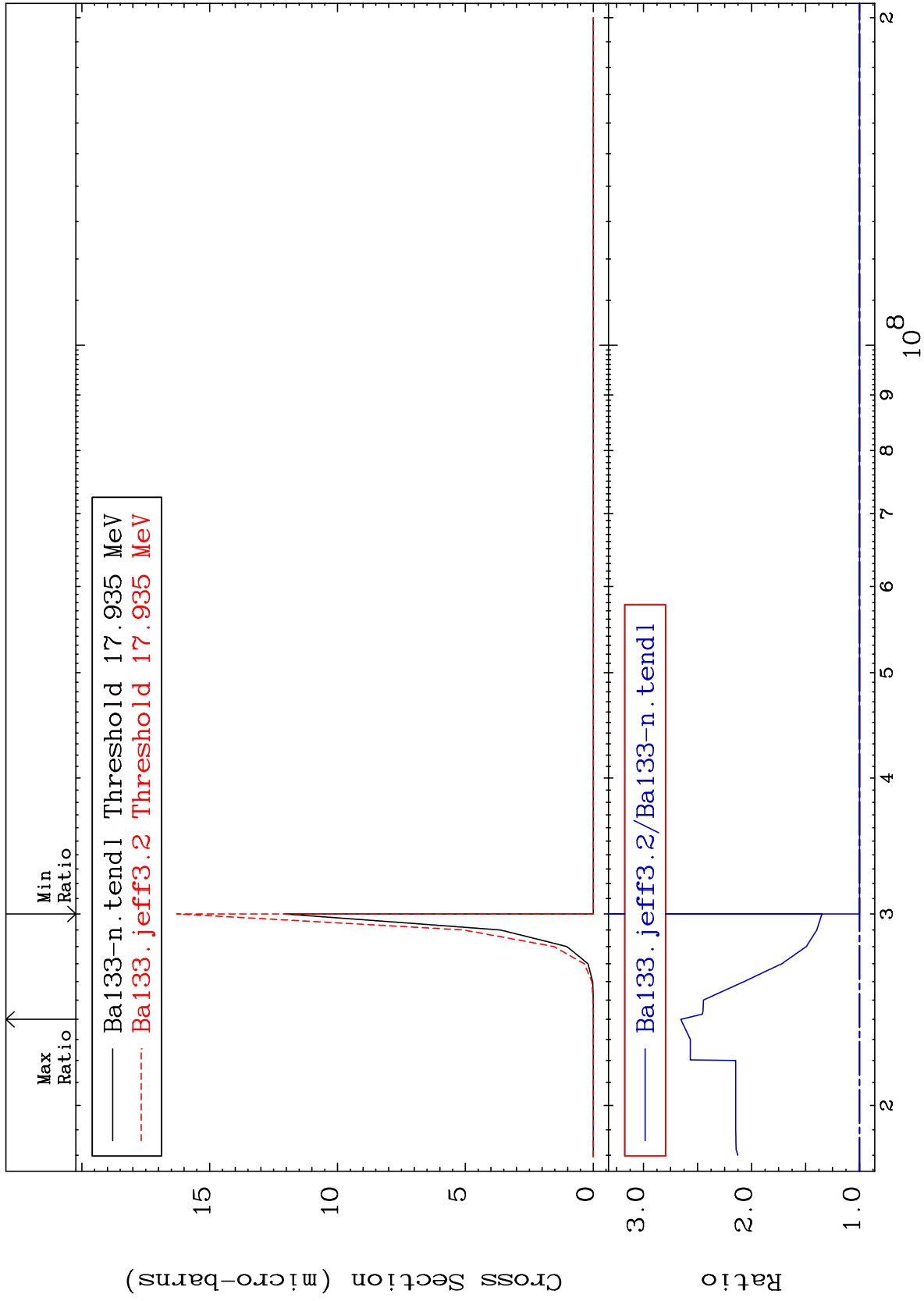
Incident Energy (eV)

56-Ba-133

MAT 5634

(n,3n) α
Cross Section

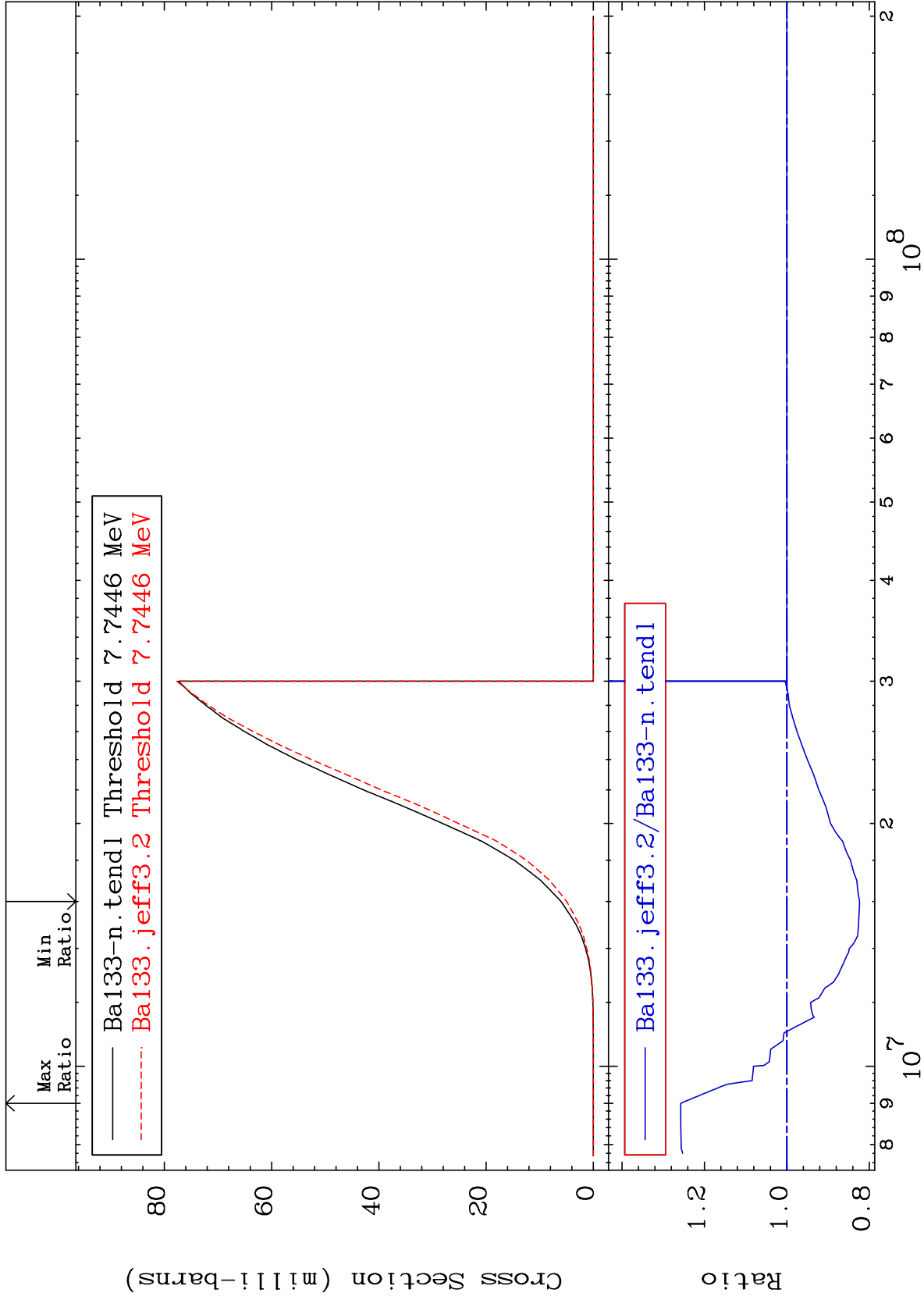
56-Ba-133
0.000 To 165.5 %



MAT 5634

(n, n') p
Cross Section

56-Ba-133
-17.64 To 25.73 %



10

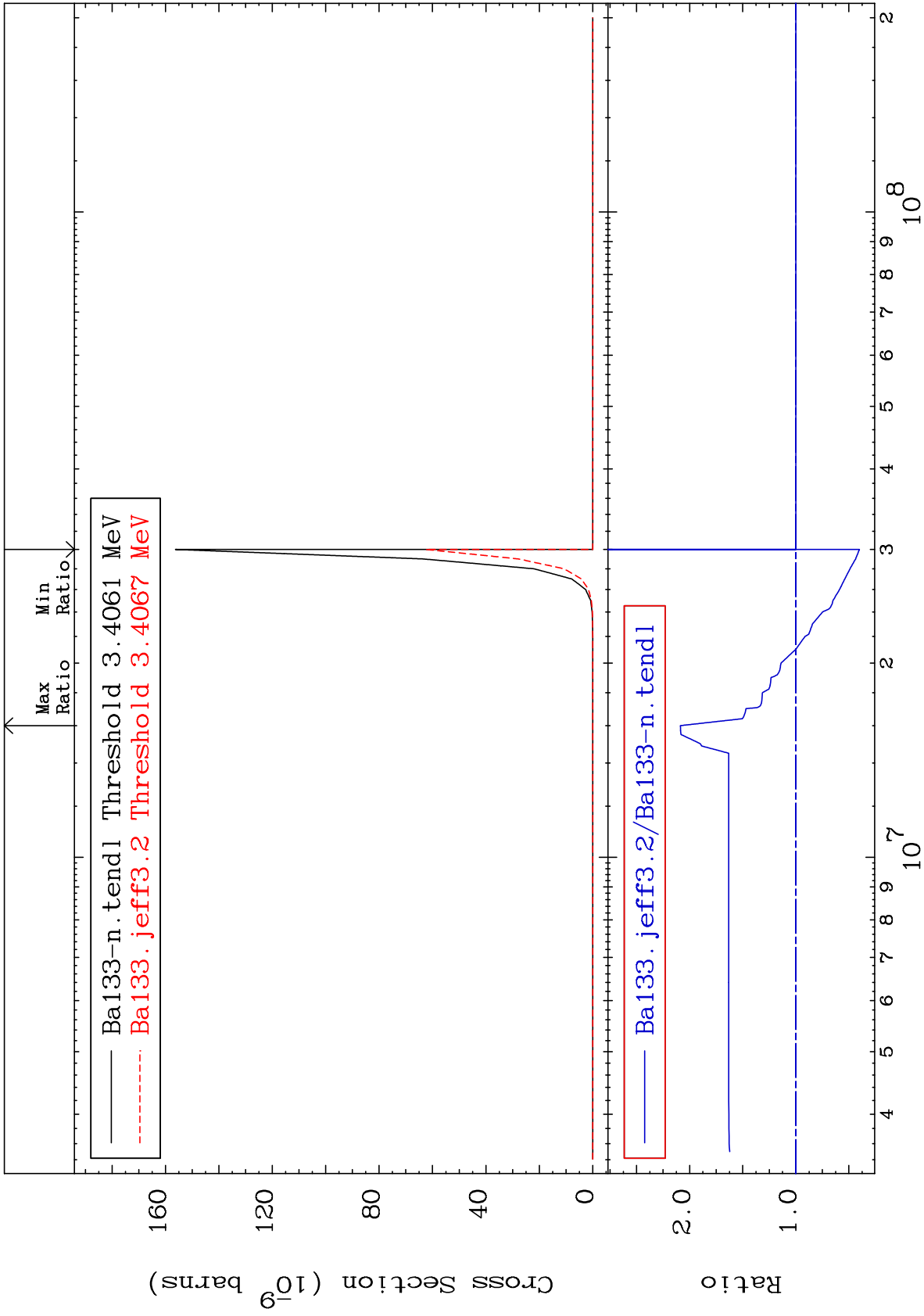
Incident Energy (eV)

56-Ba-133

MAT 5634

(n, n') 2α
Cross Section

56-Ba-133
-59.93 To 108.7 %



11

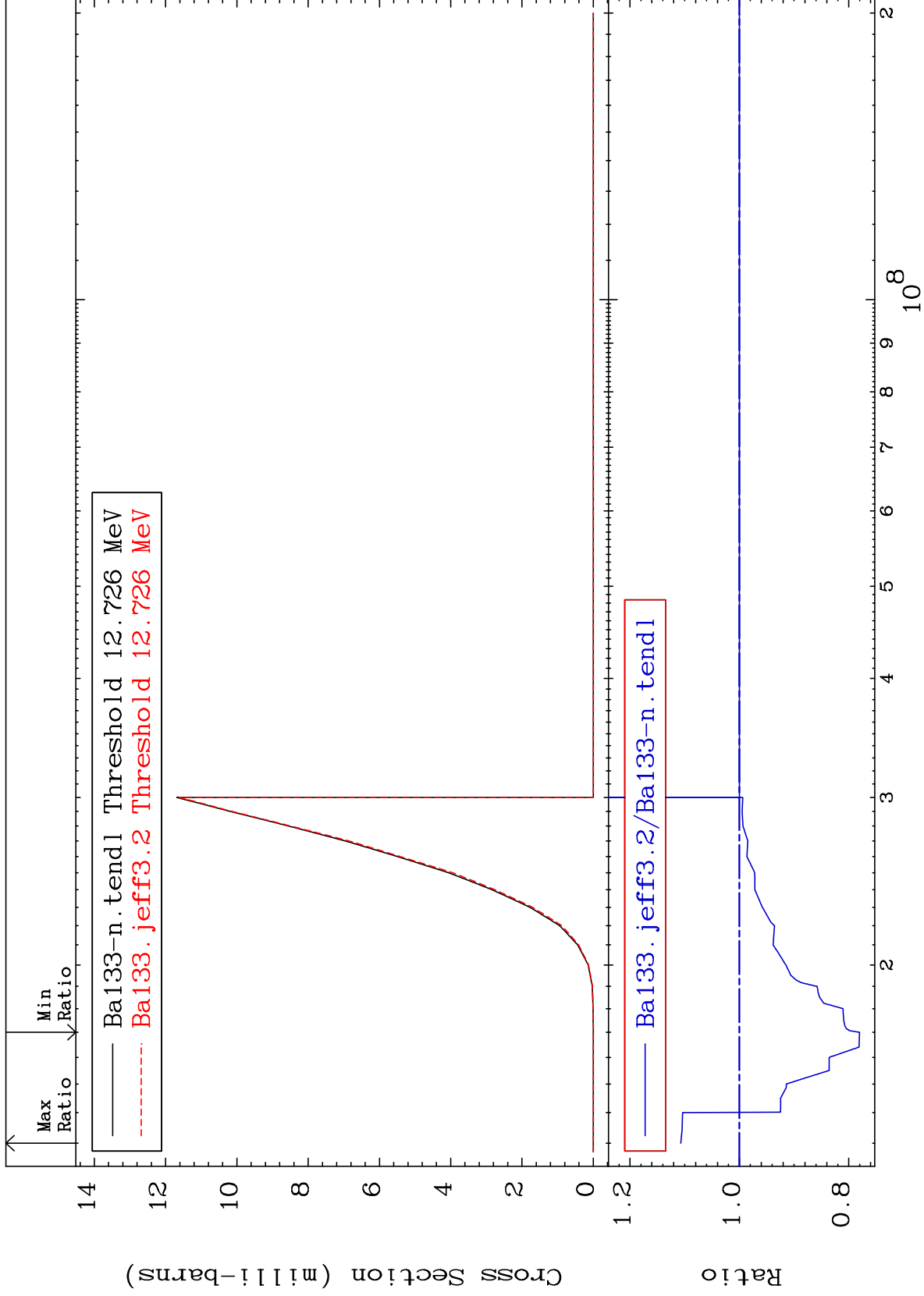
Incident Energy (eV)

56-Ba-133

MAT 5634

(n,n') d
Cross Section

56-Ba-133
-21.97 To 10.72 %



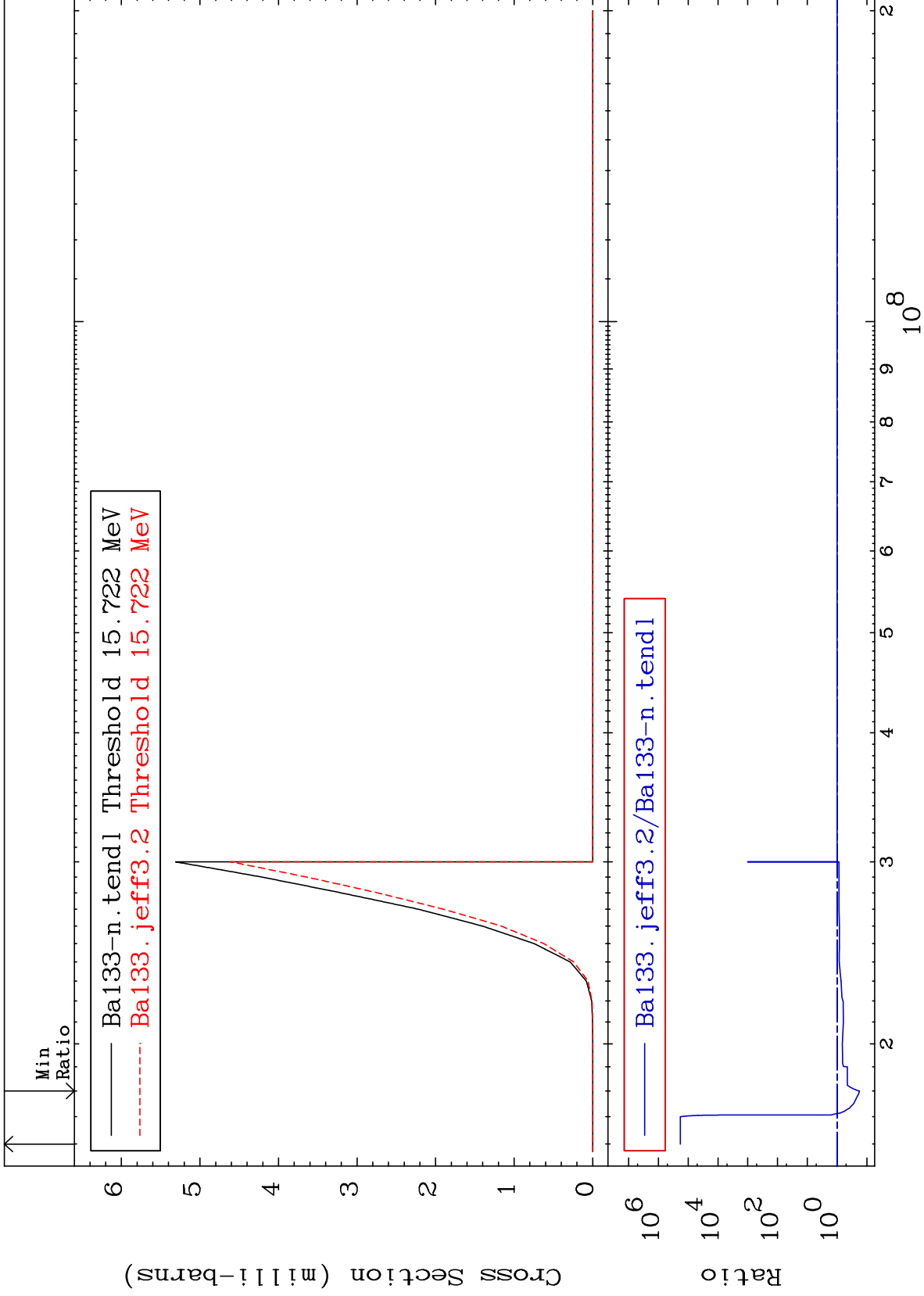
12

56-Ba-133

MAT 5634

(n,n') t
Cross Section

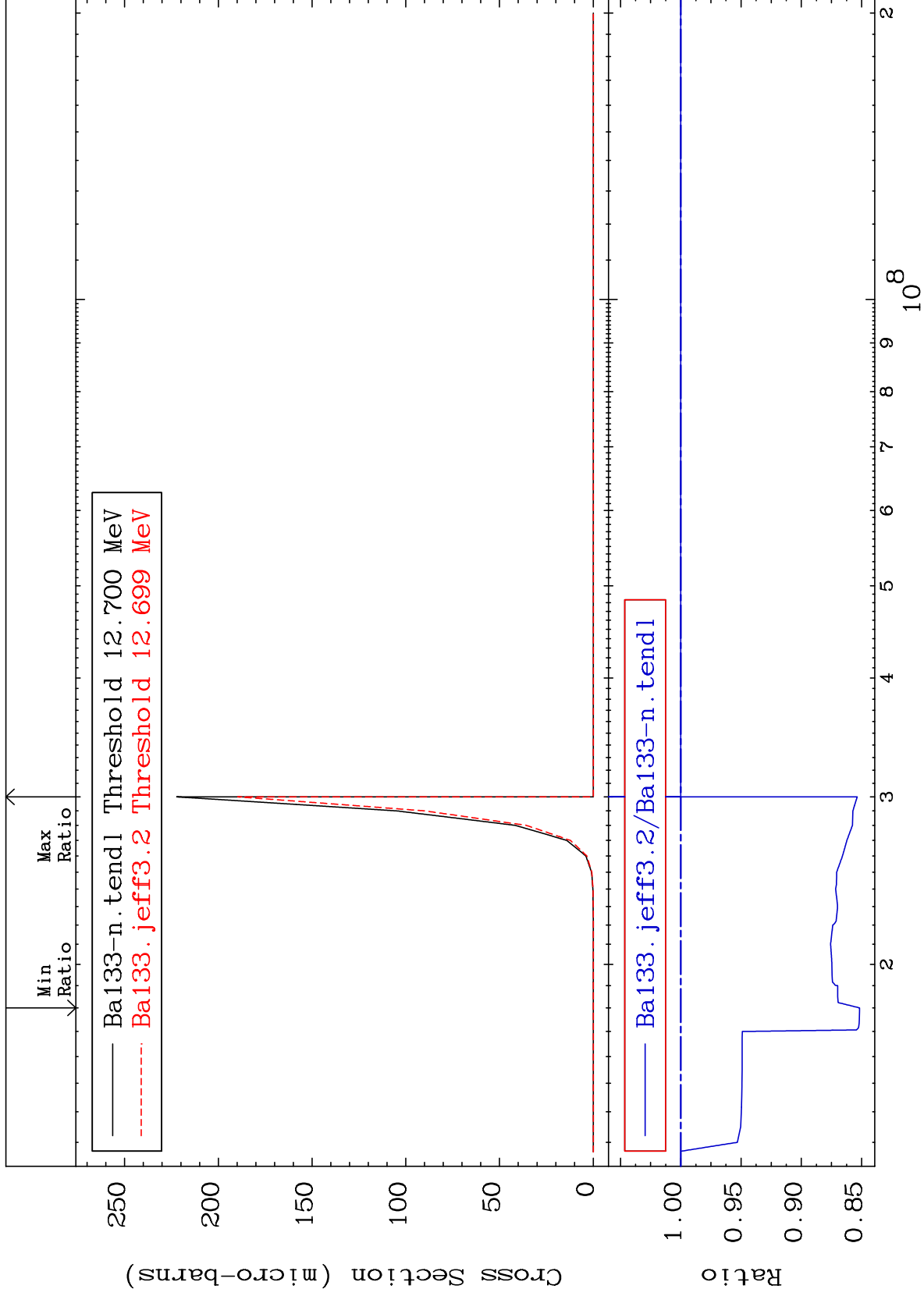
56-Ba-133
-82.28 To 9999. %



MAT 5634

(n, n') He-3
Cross Section

56-Ba-133
-14.83 To 0.000 %



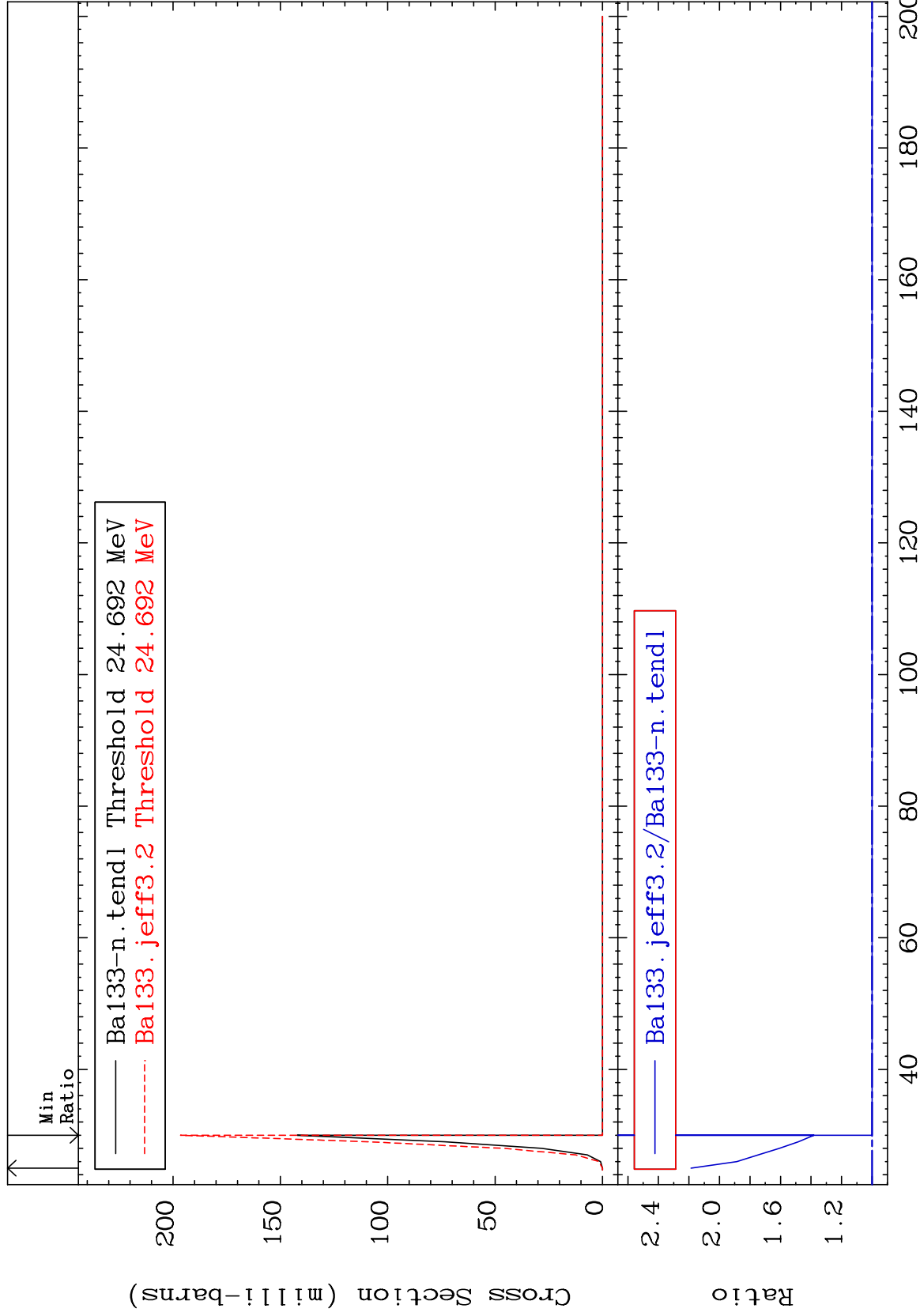
MAT 5634

(n,4n)

56-Ba-133

Cross Section

0.000 To 118.6 %



15

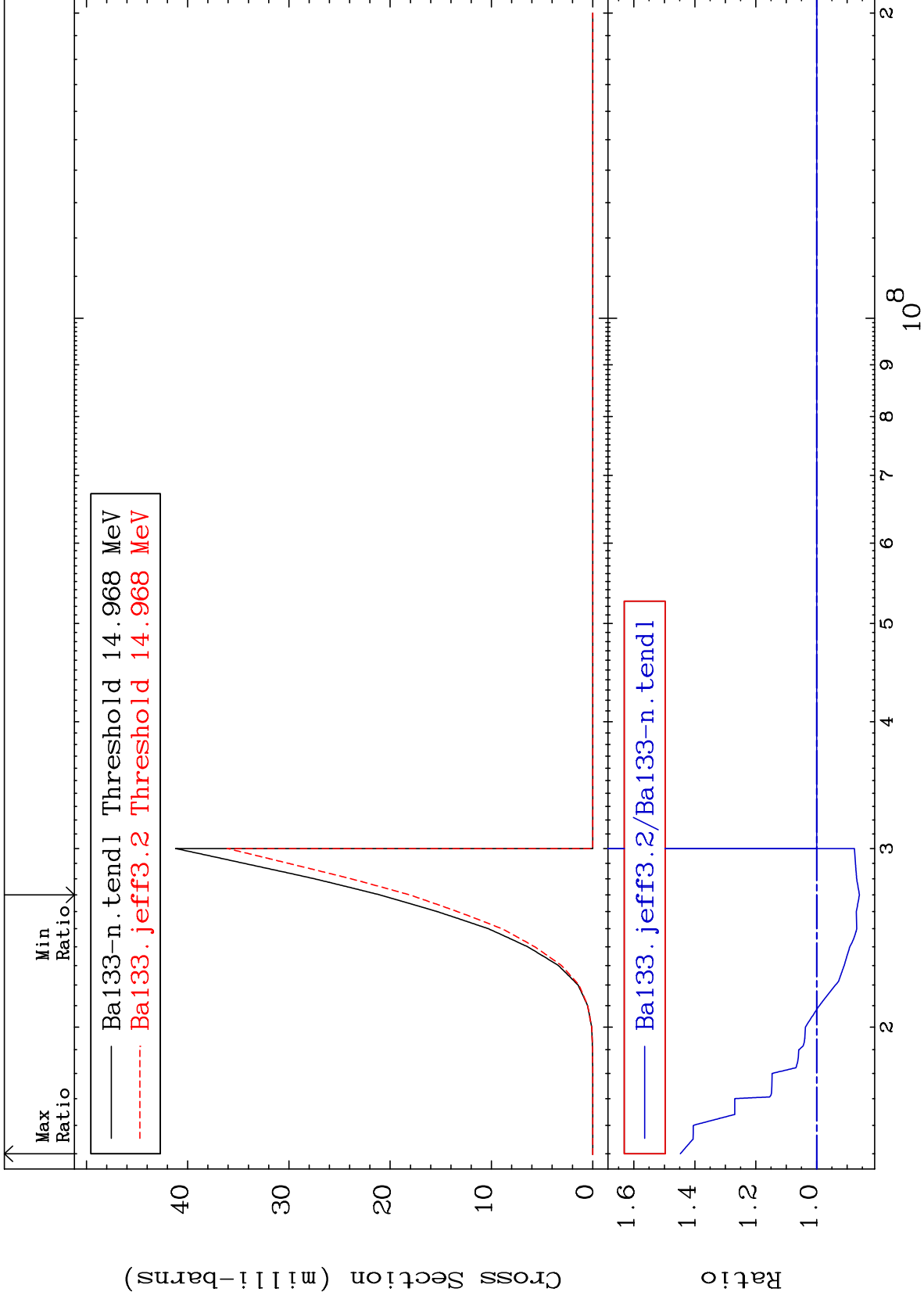
Incident Energy (MeV)

56-Ba-133

MAT 5634

(n,2n) p
Cross Section

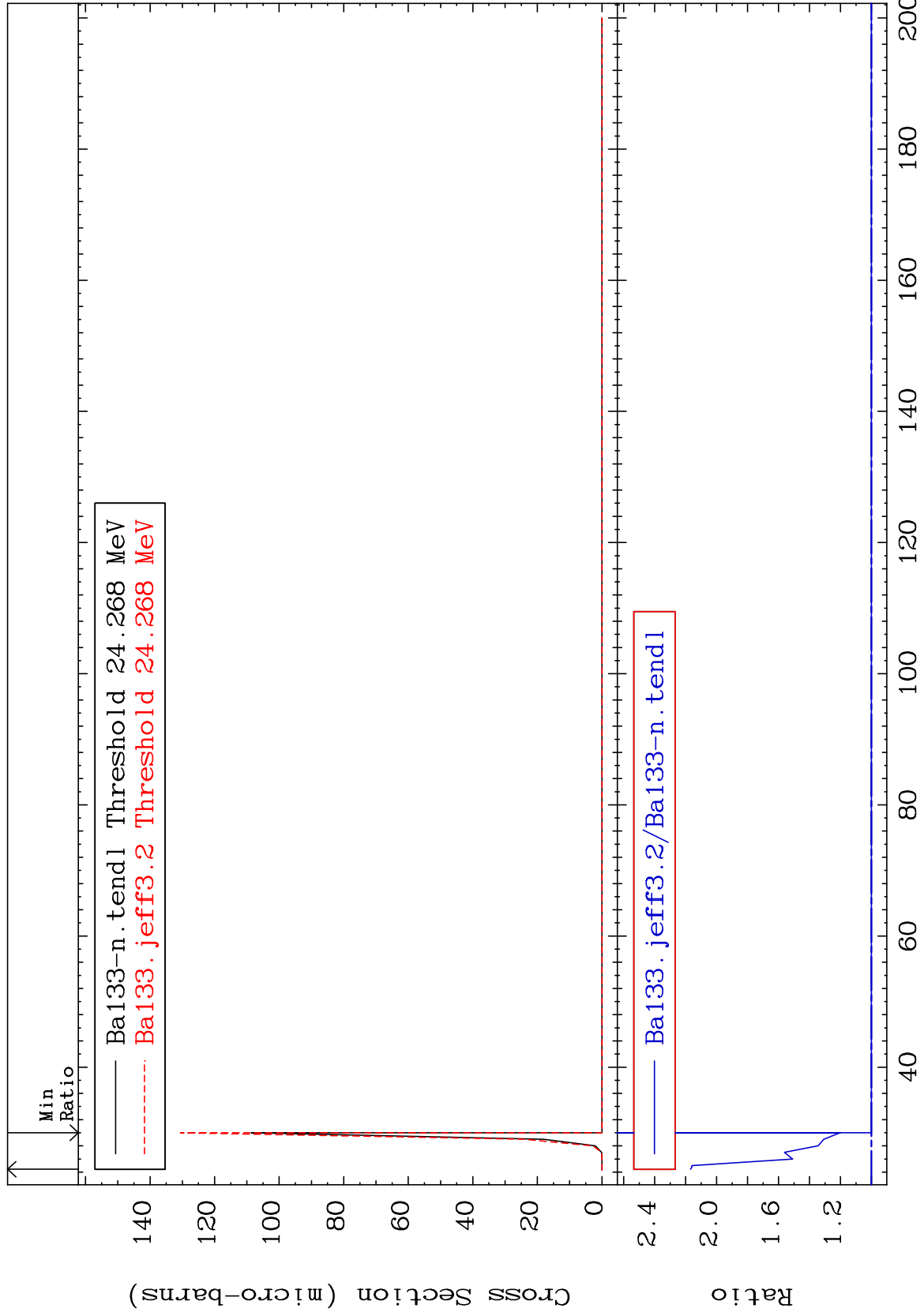
56-Ba-133
-14.04 To 44.75 %



MAT 5634

(n,3n) p
Cross Section

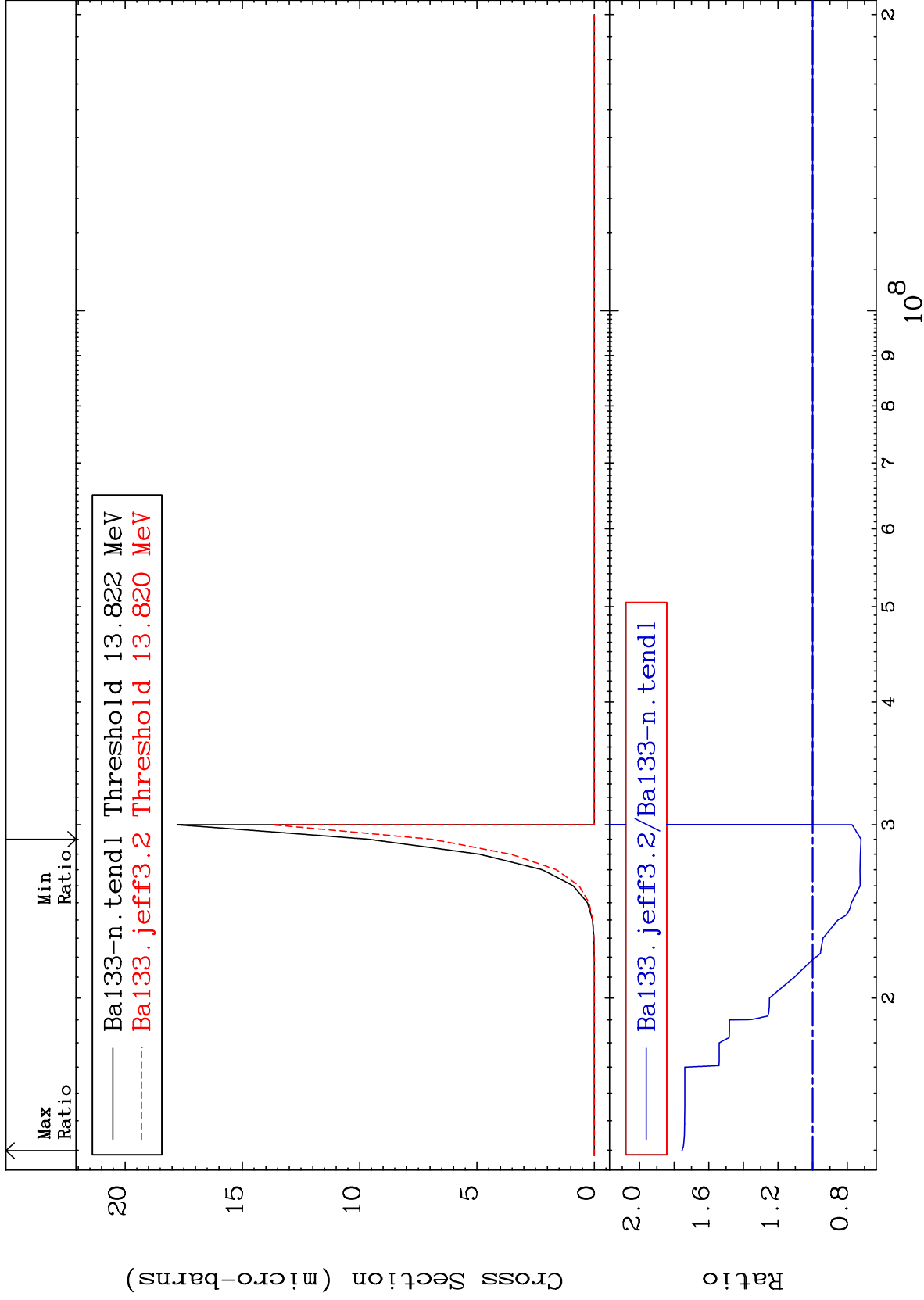
56-Ba-133
0.000 To 116.9 %



MAT 5634

(n,2n) p
Cross Section

56-Ba-133
-27.91 To 75.53 %



18

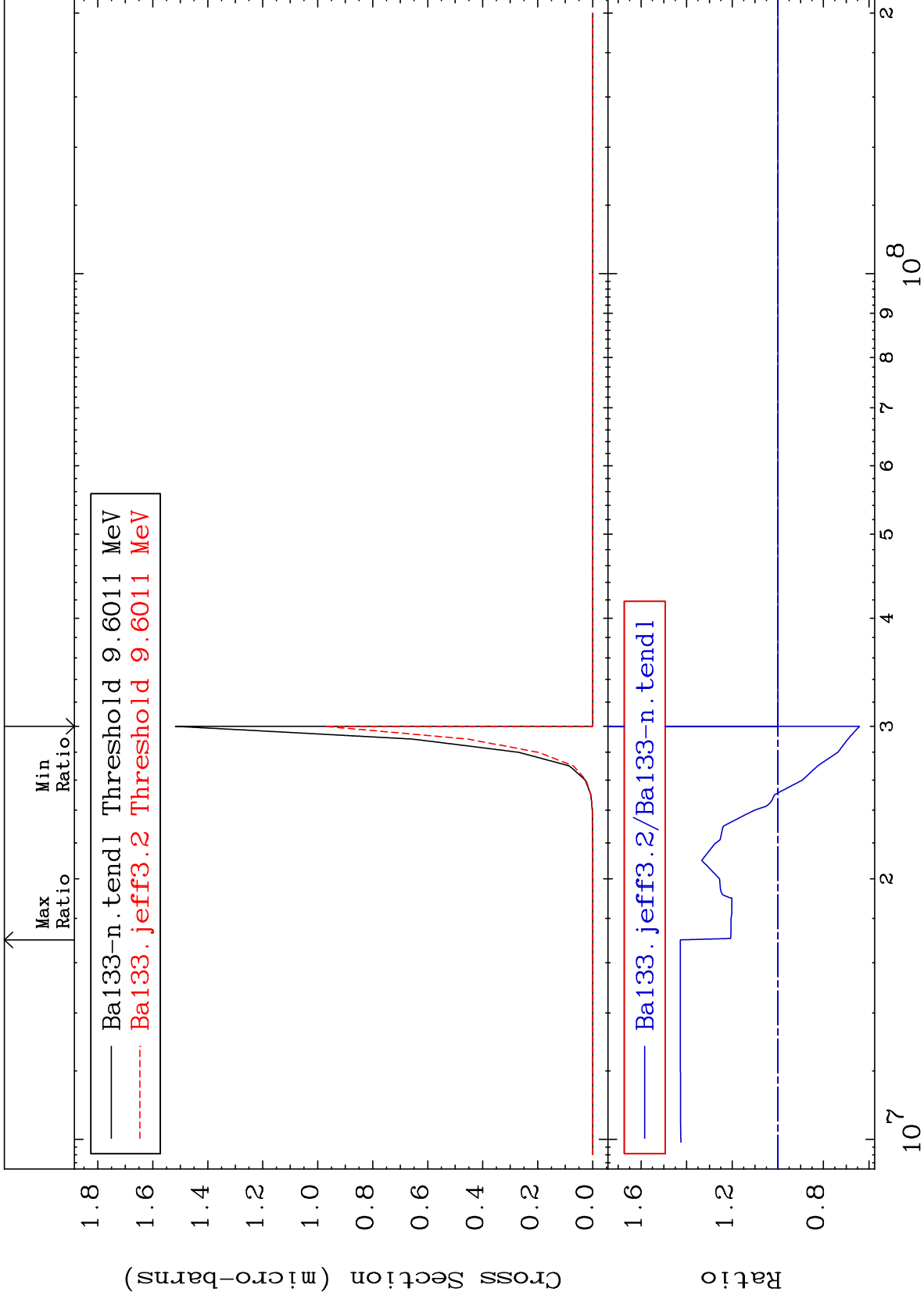
Incident Energy (eV)

56-Ba-133

MAT 5634

(n,n') p α
Cross Section

56-Ba-133
-35.78 To 42.75 %



19

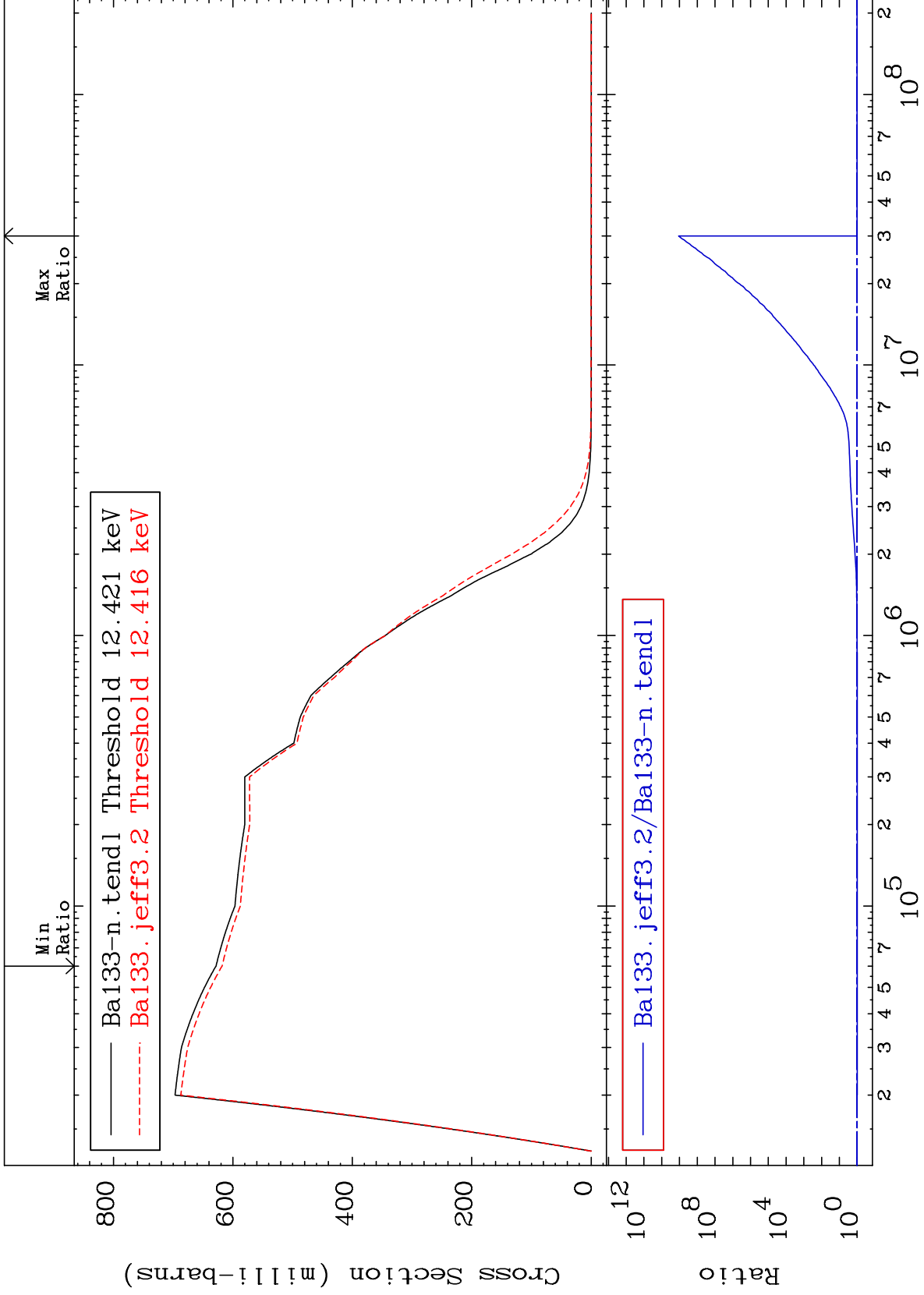
56-Ba-133

56-Ba-133

MAT 5634

12.33 keV (n,n') Level
Cross Section

56-Ba-133
-1.610 To 9999. %



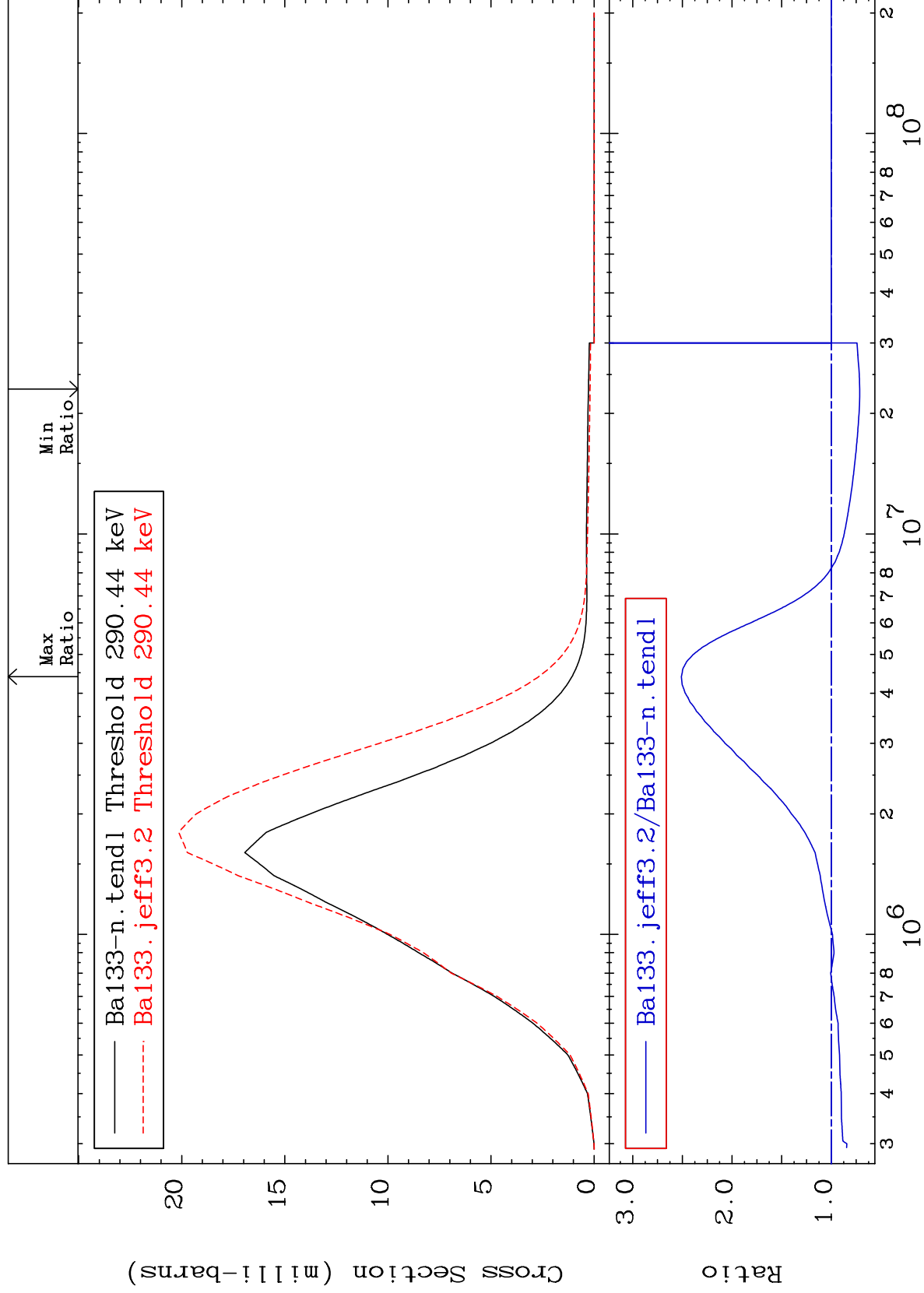
MAT 5634

288.3 keV (n,n') Level

56-Ba-133

-28.60 To 151.0 %

Cross Section



21

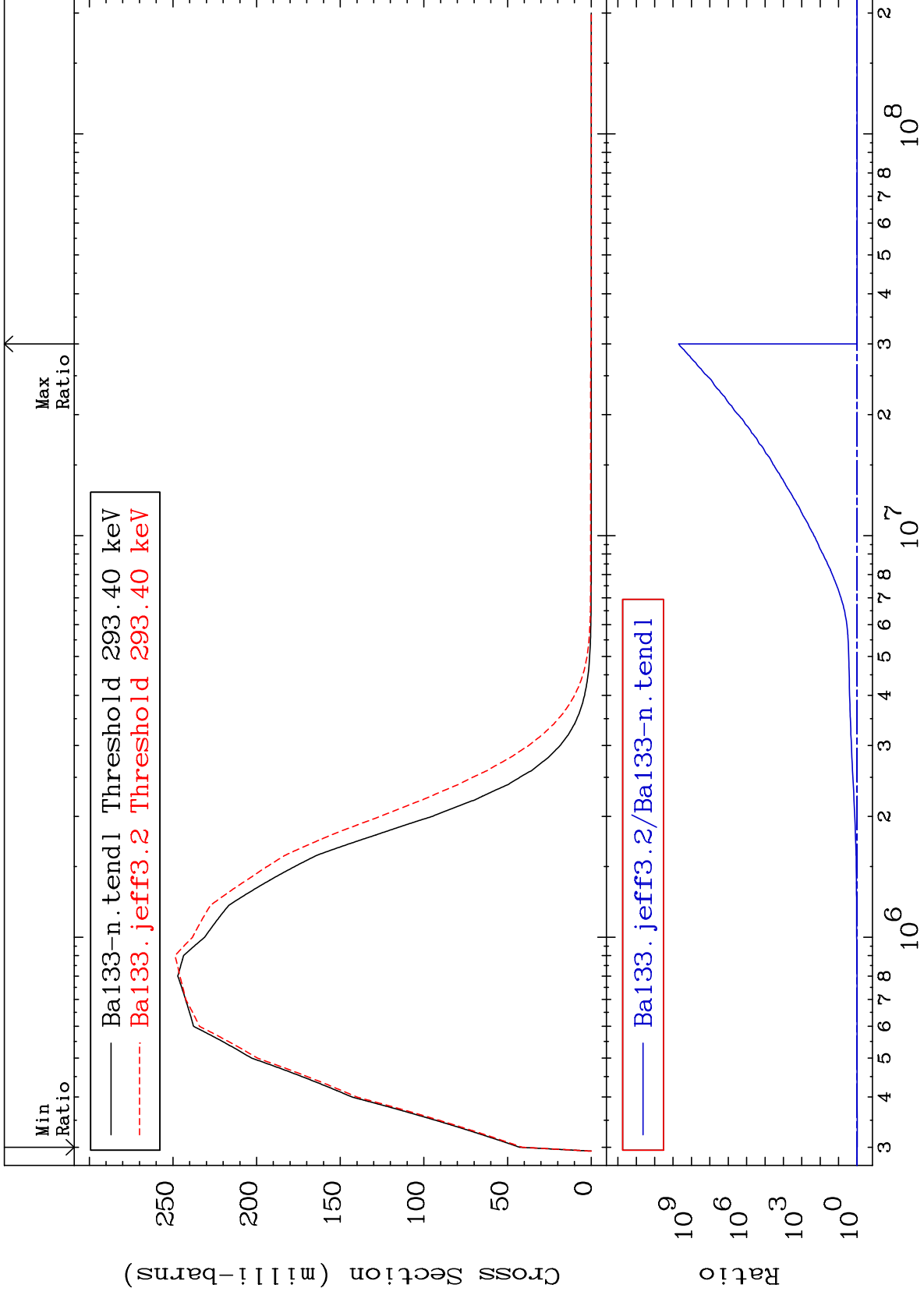
Incident Energy (eV)

56-Ba-133

MAT 5634

291.2 keV (n,n') Level
Cross Section

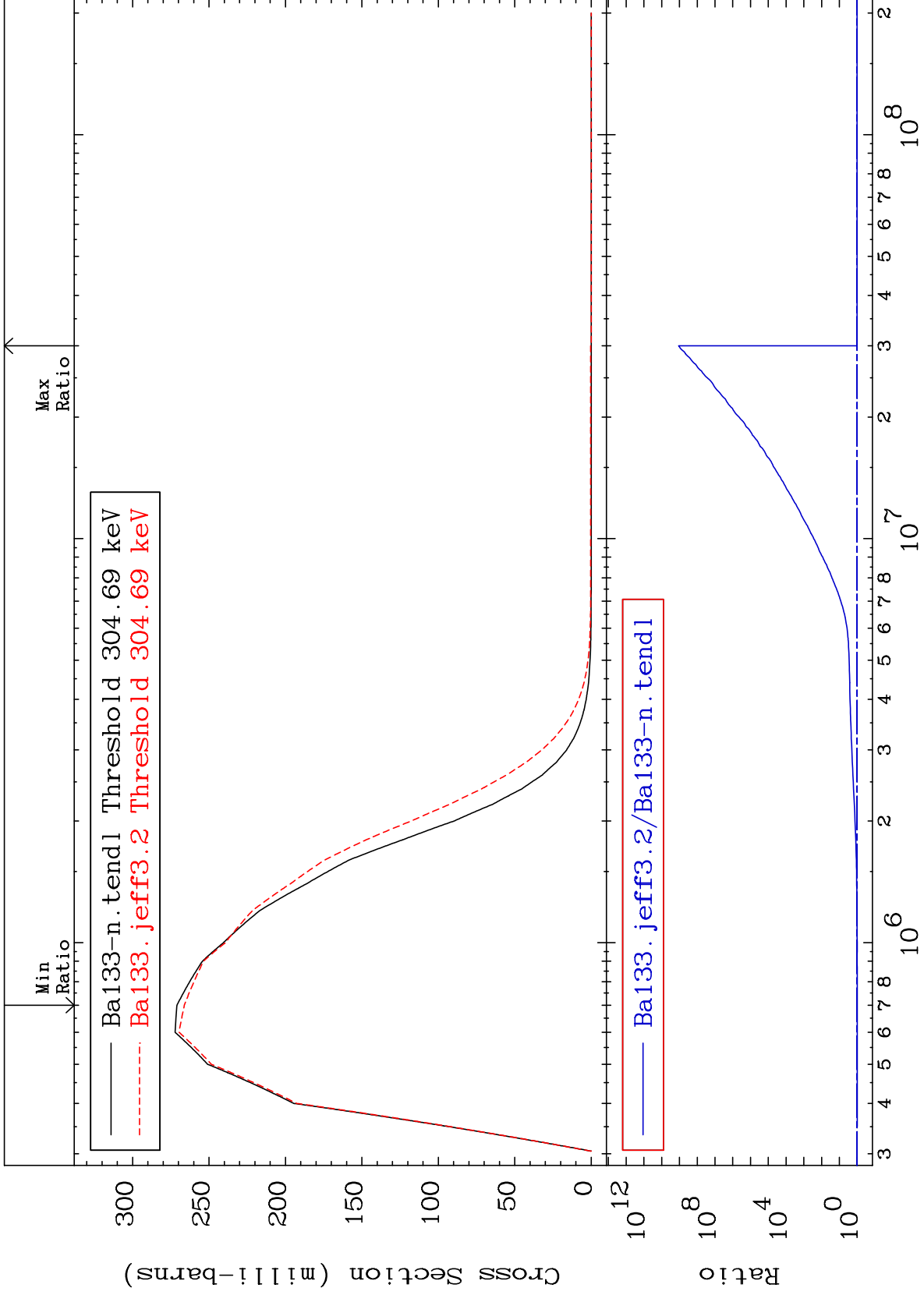
56-Ba-133
-3.501 To 9999. %



MAT 5634

302.4 keV (n,n') Level
Cross Section

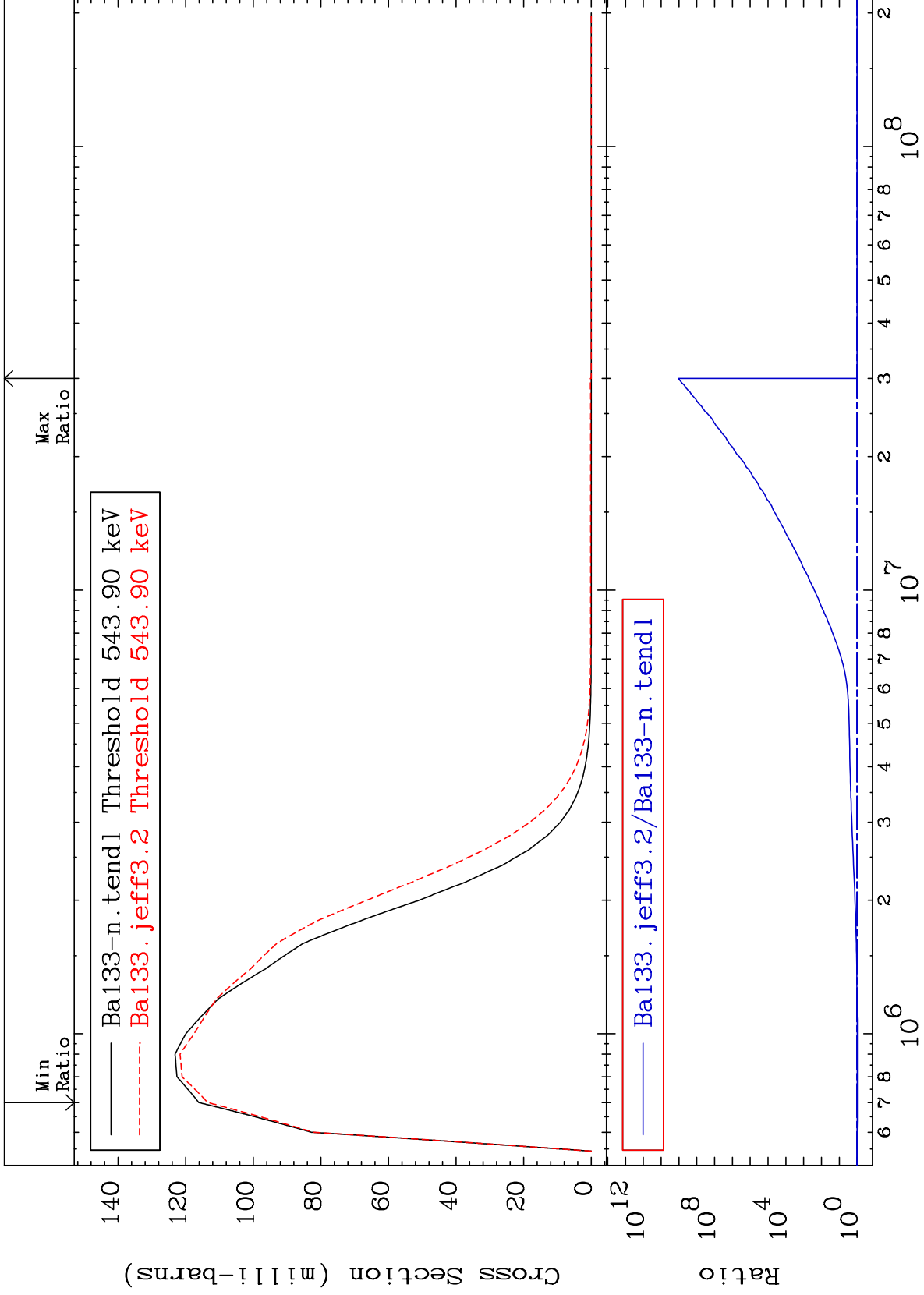
56-Ba-133
-1.775 To 9999. %



MAT 5634

539.8 keV (n,n') Level
Cross Section

56-Ba-133
-2.270 To 9999. %



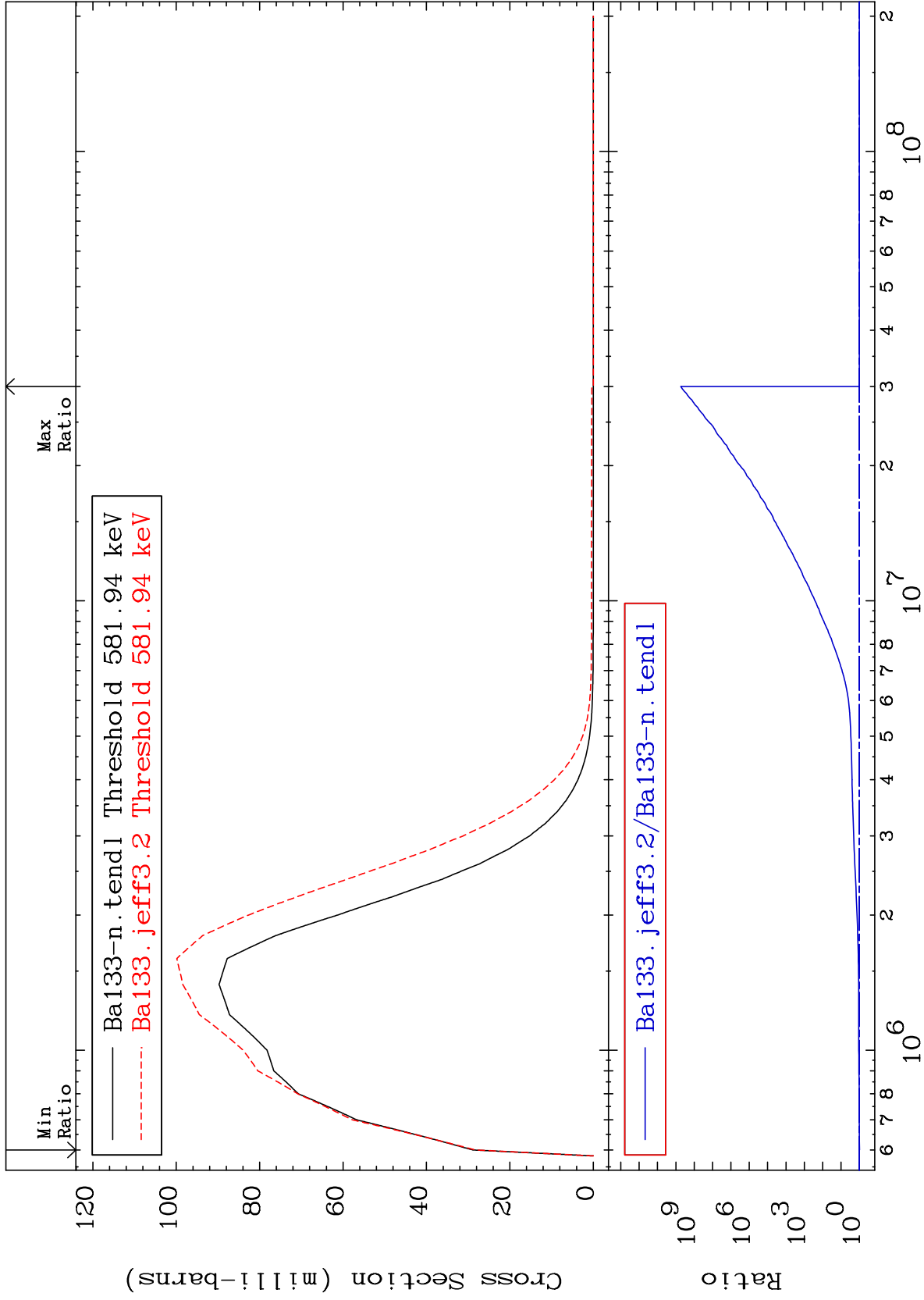
MAT 5634

577.6 keV (n,n') Level

56-Ba-133

-2.192 To 9999. %

Cross Section



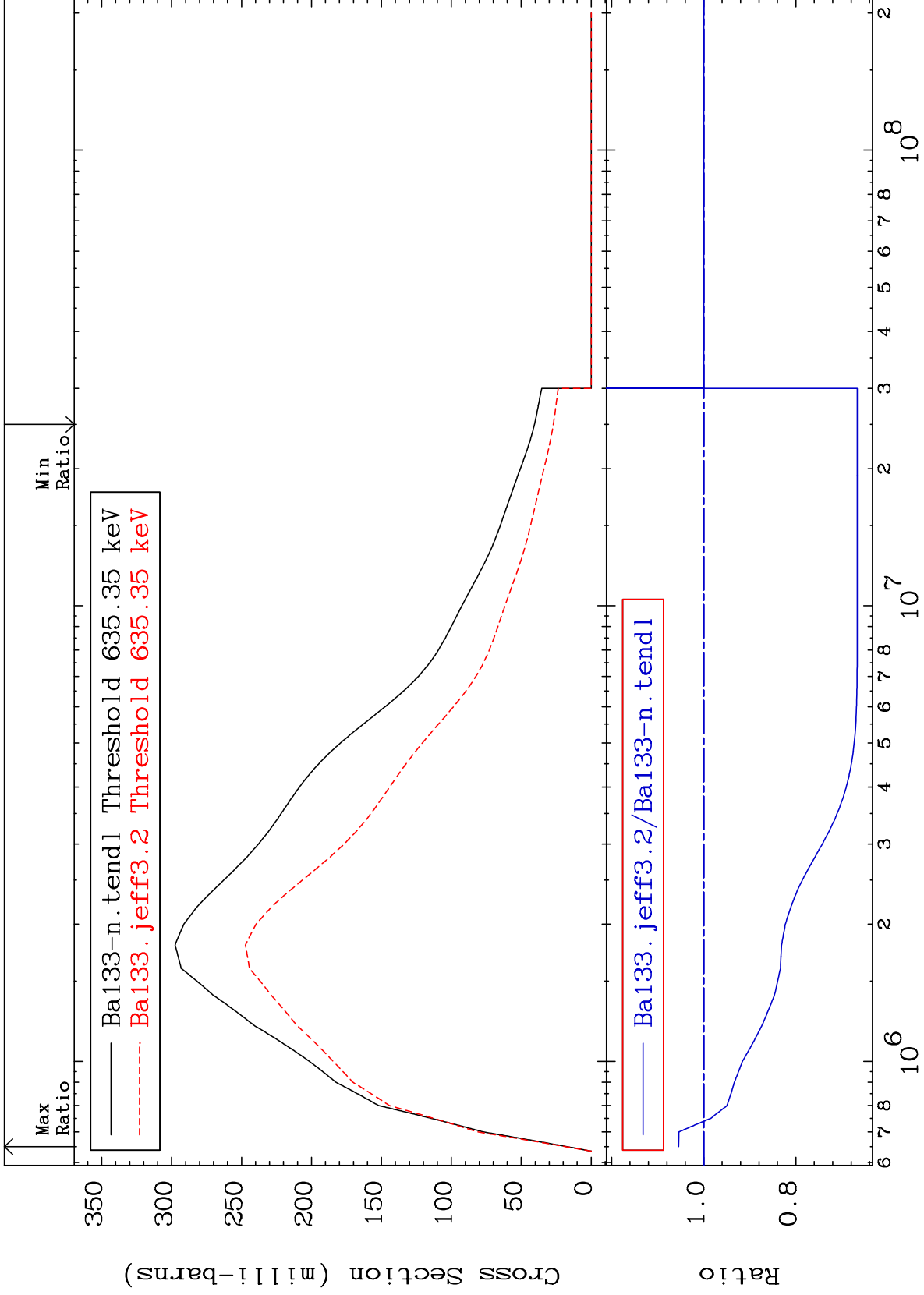
25

56-Ba-133

MAT 5634

630.6 keV (n,n') Level
Cross Section

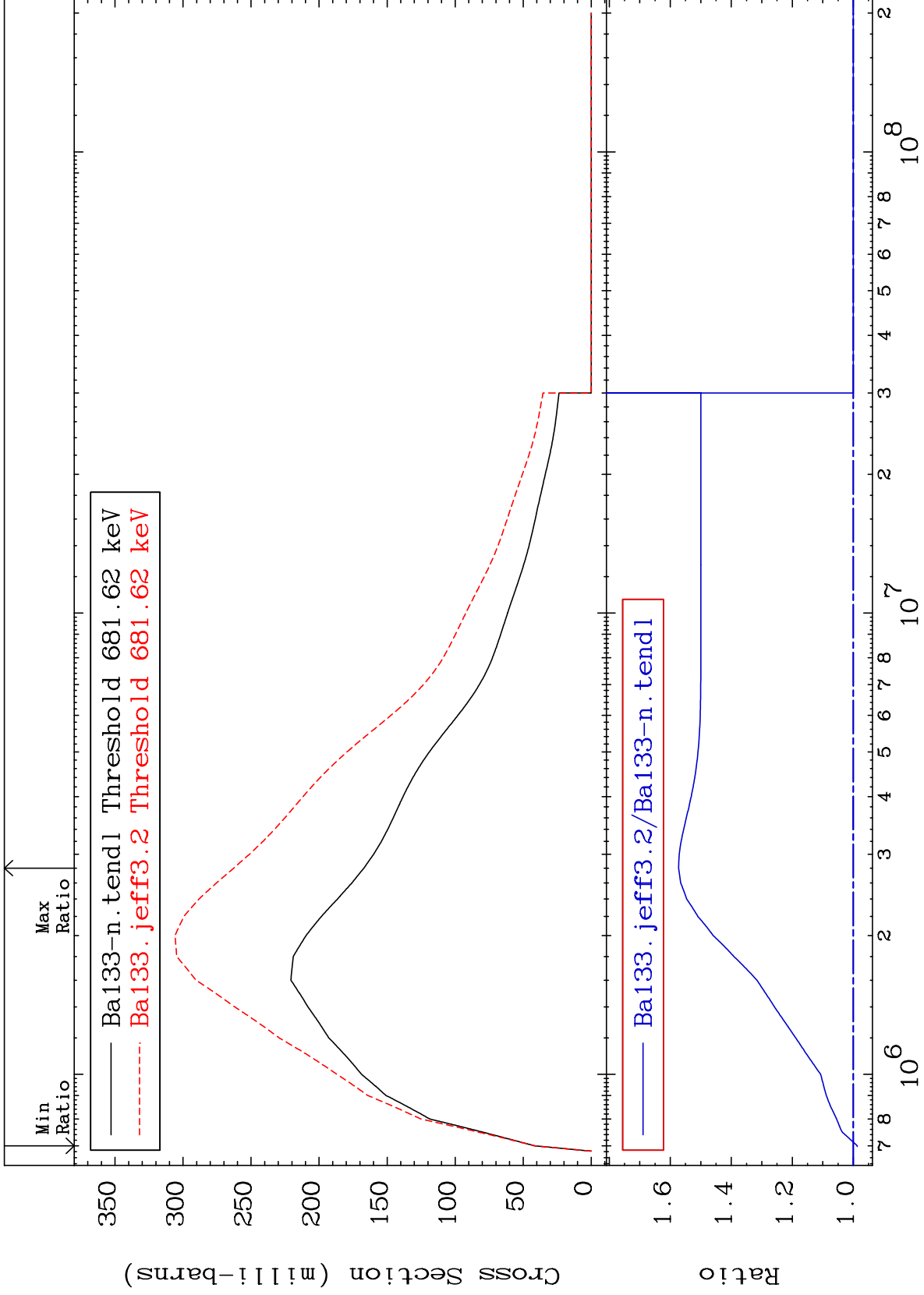
56-Ba-133
-33.33 To 5.442 %



MAT 5634

676.5 keV (n,n') Level
Cross Section

56-Ba-133
-1.288 To 57.26 %



27

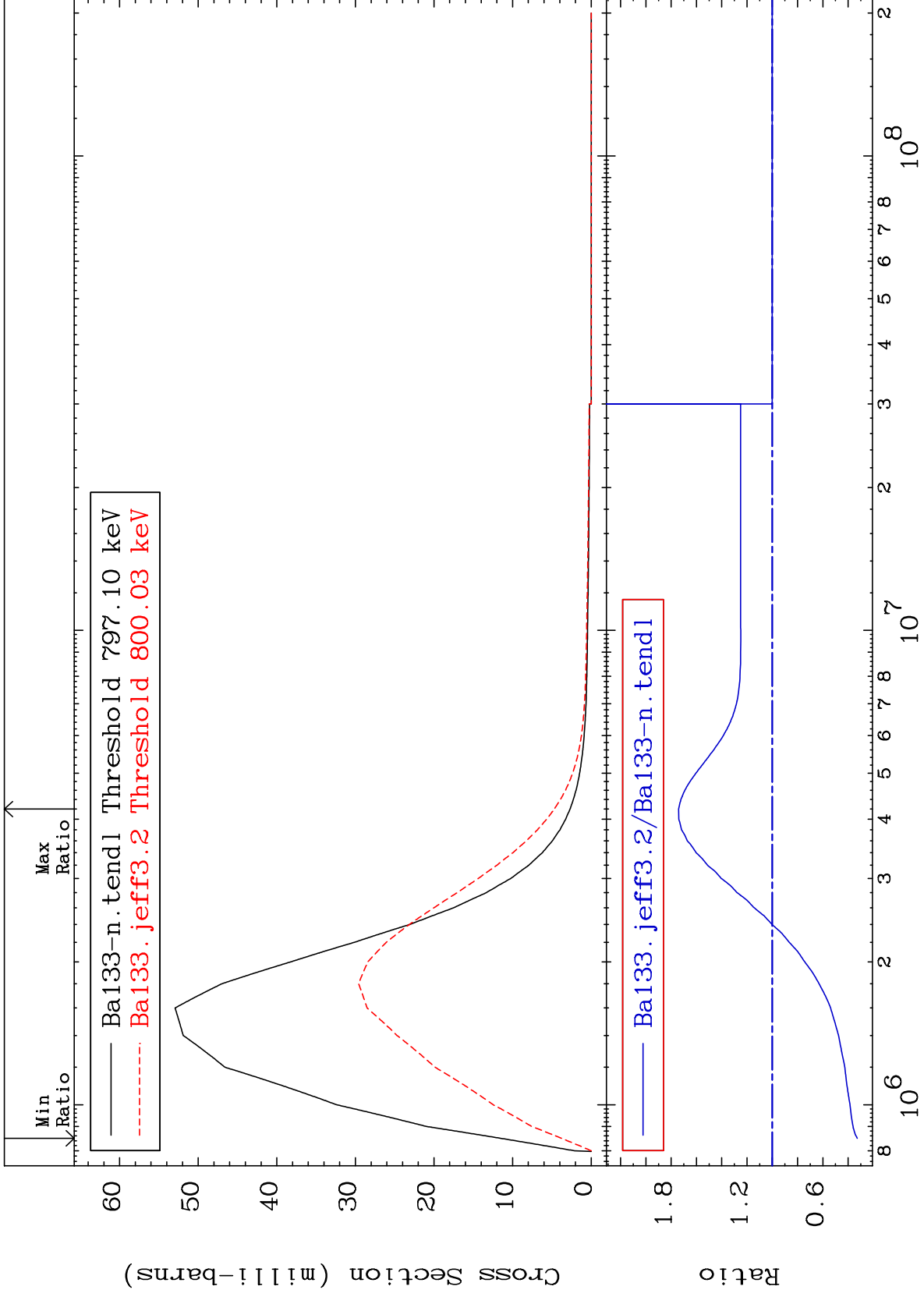
Incident Energy (eV)

56-Ba-133

MAT 5634

791.1 keV (n,n') Level
Cross Section

56-Ba-133
-67.24 To 74.10 %



28

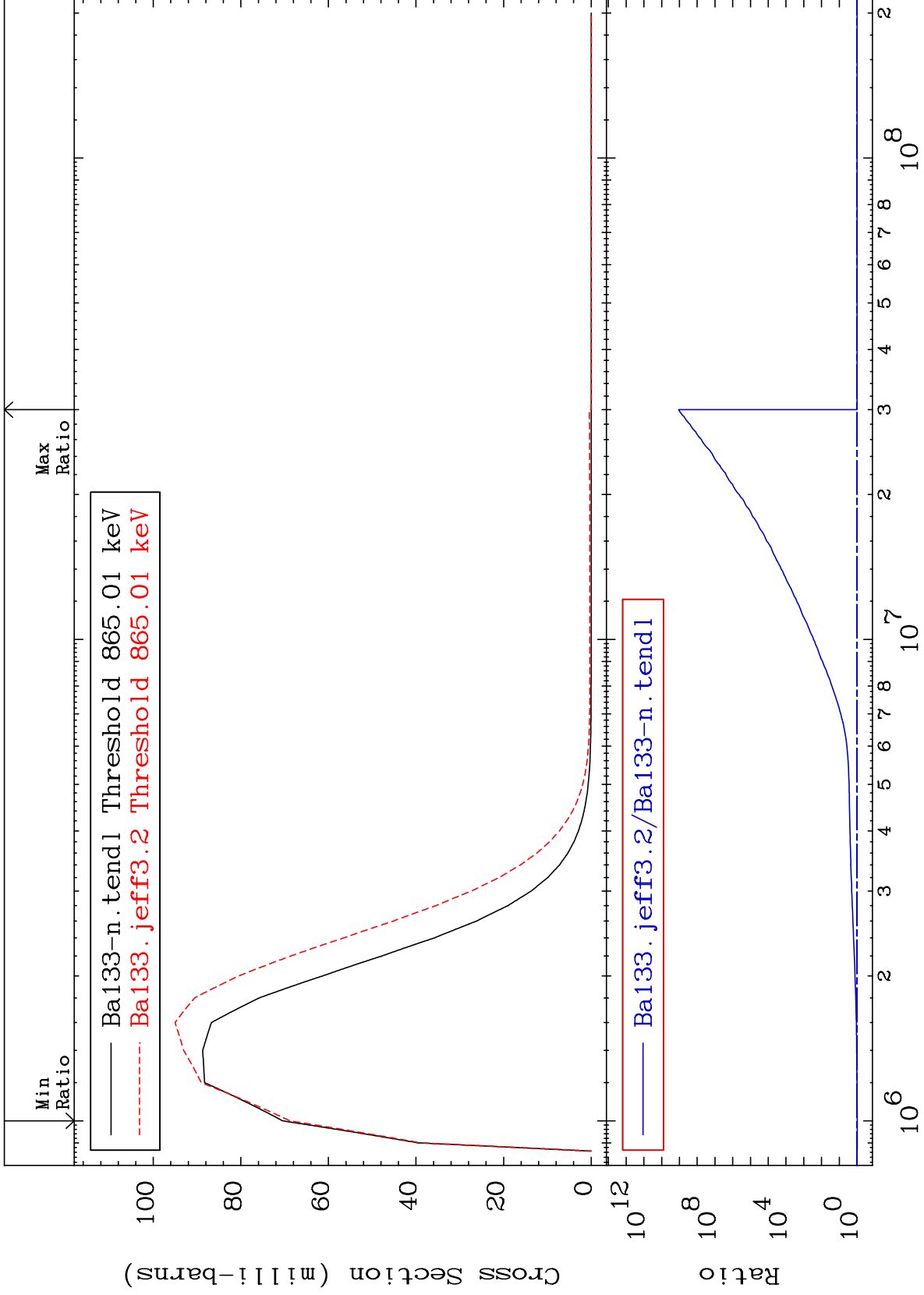
Incident Energy (eV)

56-Ba-133

MAT 5634

858.5 keV (n,n') Level
Cross Section

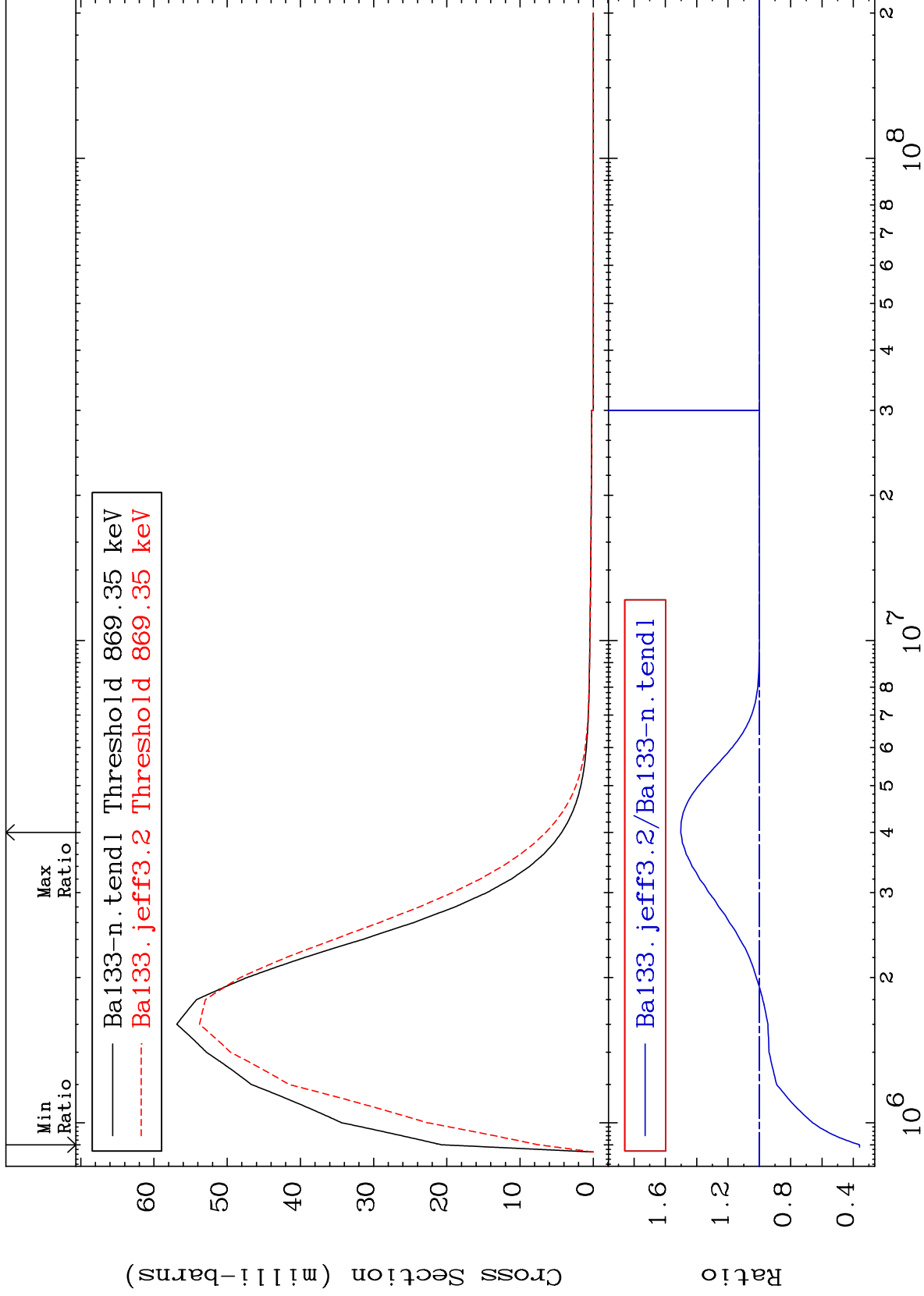
56-Ba-133
-2.357 To 9999. %



MAT 5634

862.8 keV (n,n') Level
Cross Section

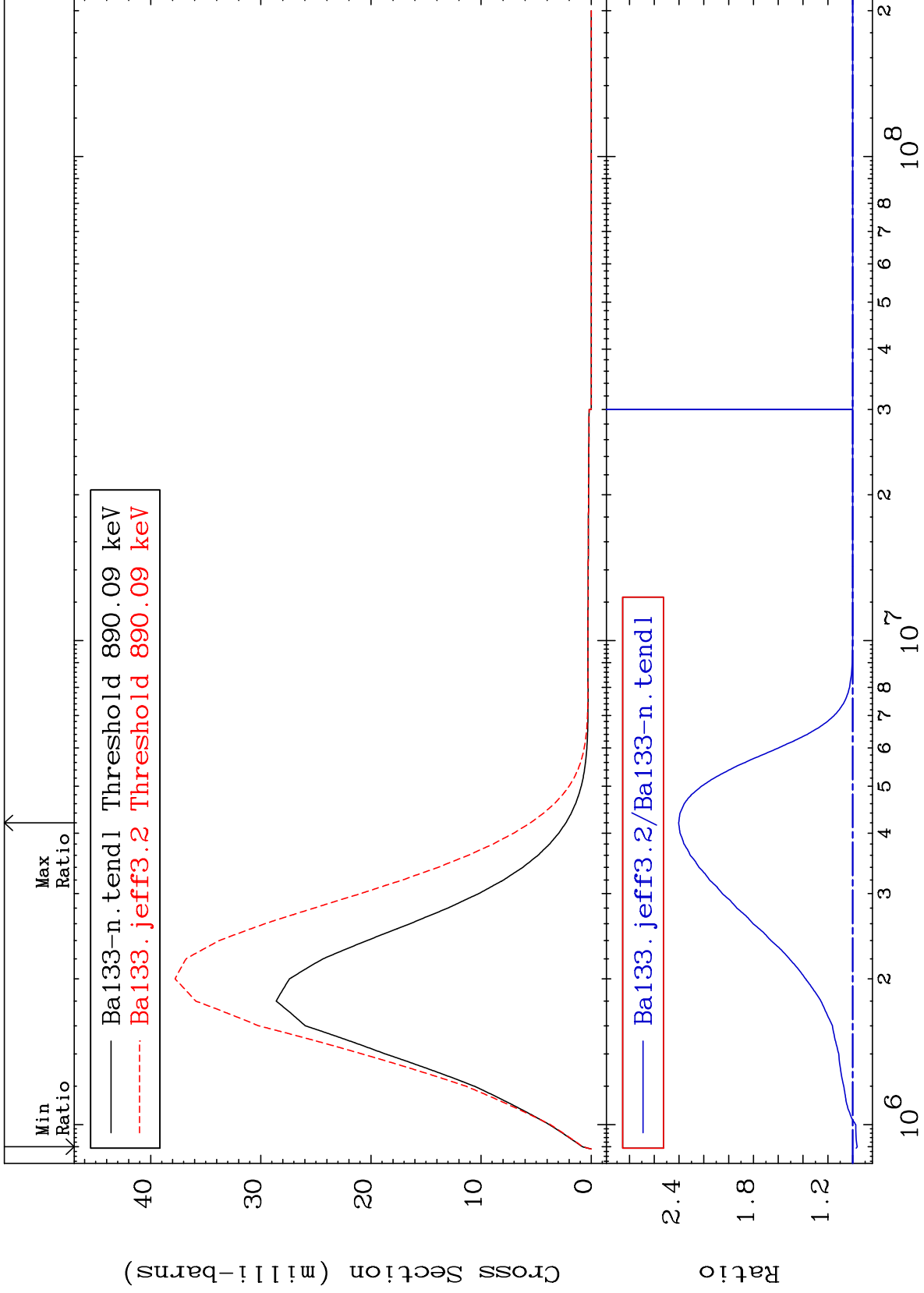
56-Ba-133
-63.98 To 50.18 %



MAT 5634

883.4 keV (n,n') Level
Cross Section

56-Ba-133
-3.701 To 140.3 %



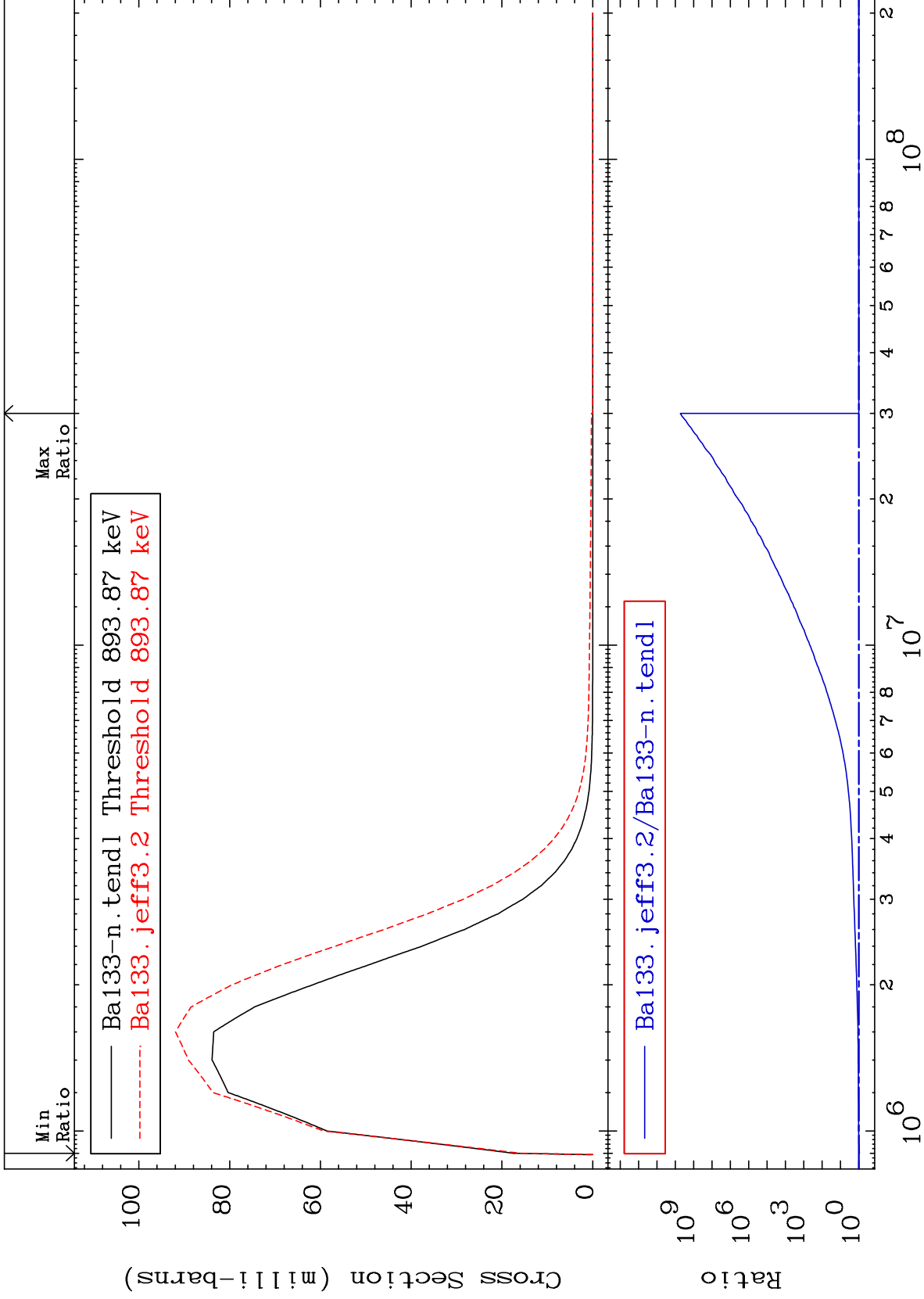
31

56-Ba-133

MAT 5634

887.1 keV (n,n') Level
Cross Section

56-Ba-133
-8.251 To 9999. %



32

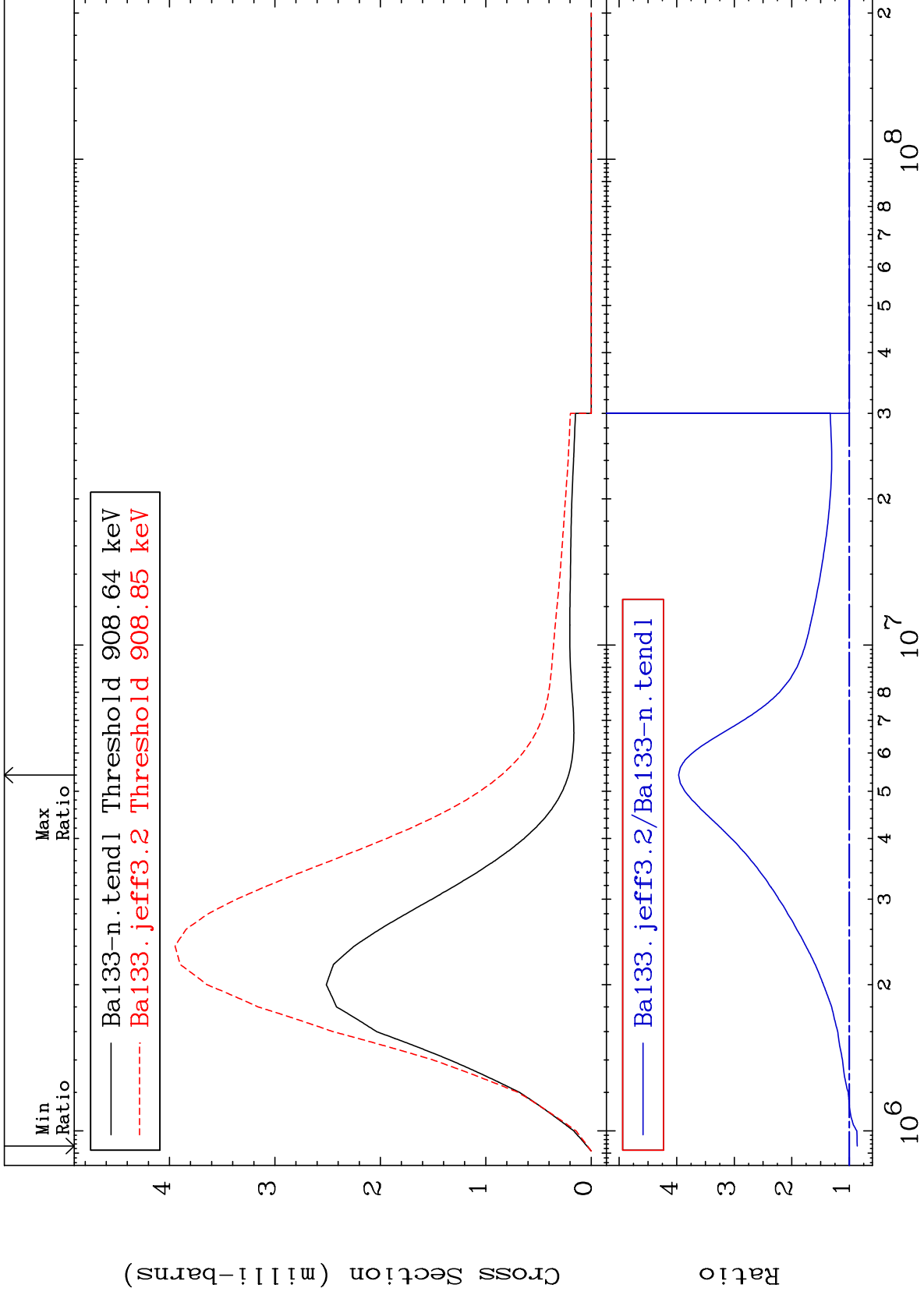
Incident Energy (eV)

56-Ba-133

MAT 5634

901.8 keV (n,n') Level
Cross Section

56-Ba-133
-13.73 To 296.6 %



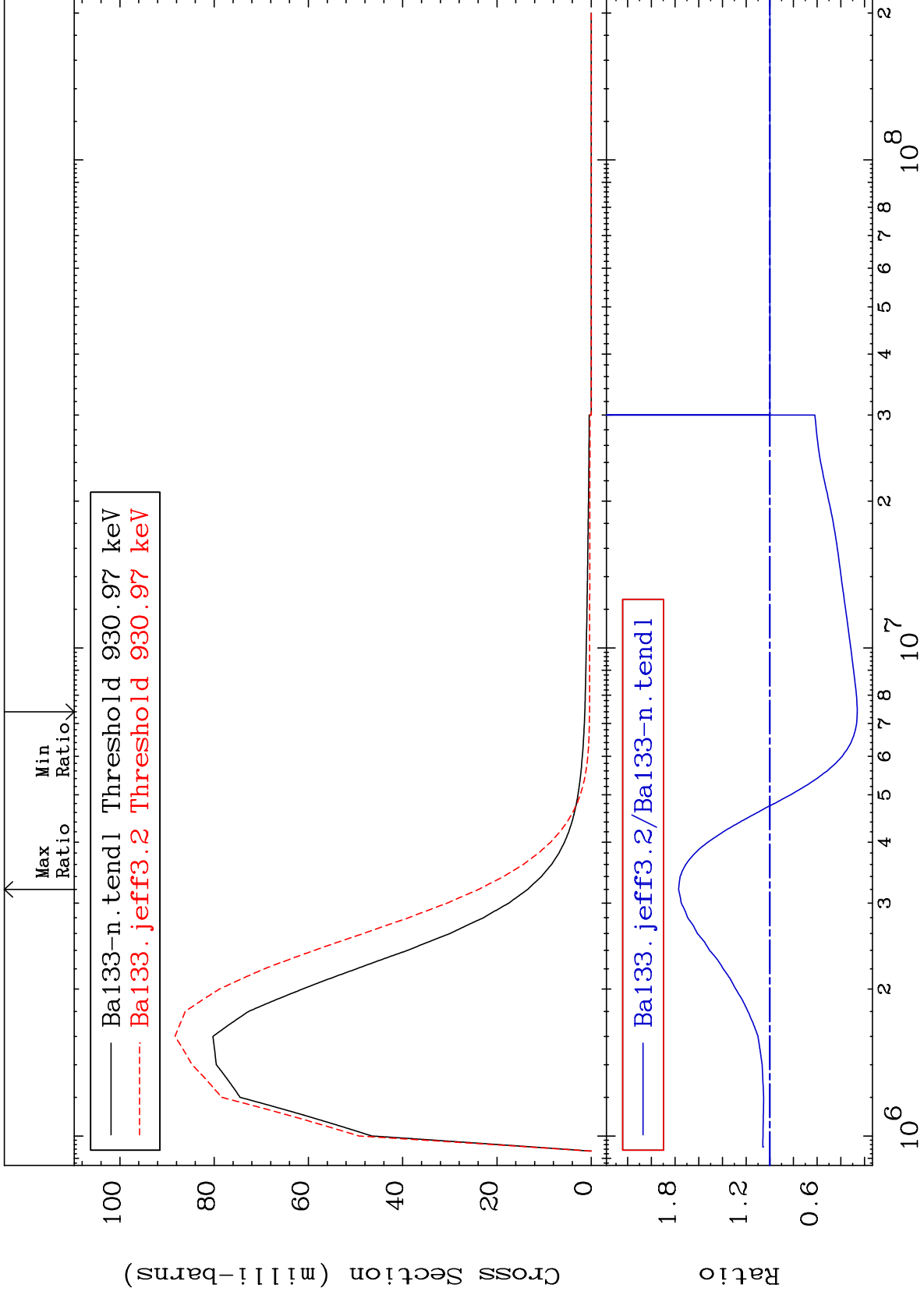
33

56-Ba-133

MAT 5634

924.0 keV (n,n') Level
Cross Section

56-Ba-133
-73.87 To 77.00 %



34

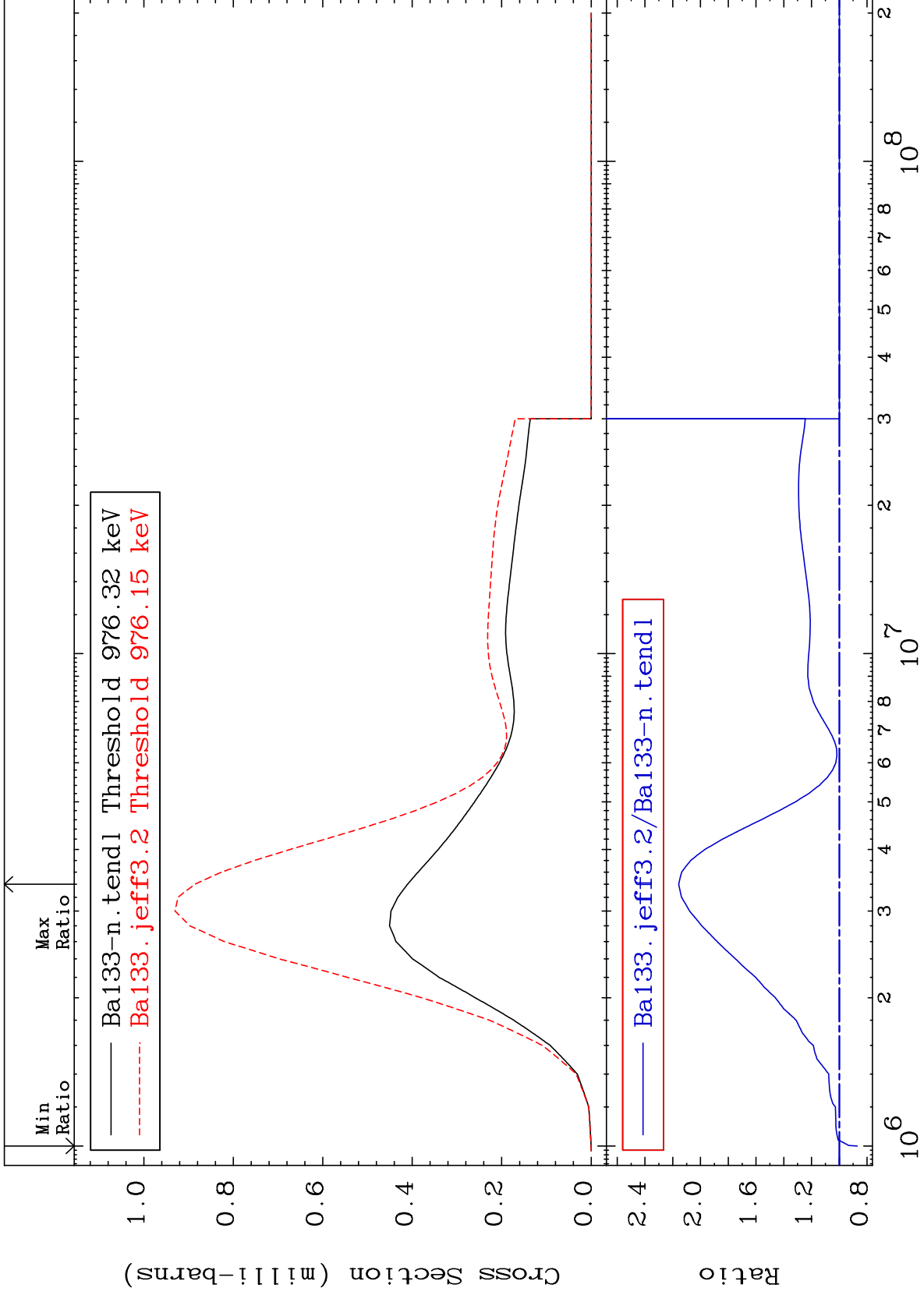
Incident Energy (eV)

56-Ba-133

MAT 5634

969.0 keV (n,n') Level
Cross Section

56-Ba-133
-12.93 To 115.7 %



35

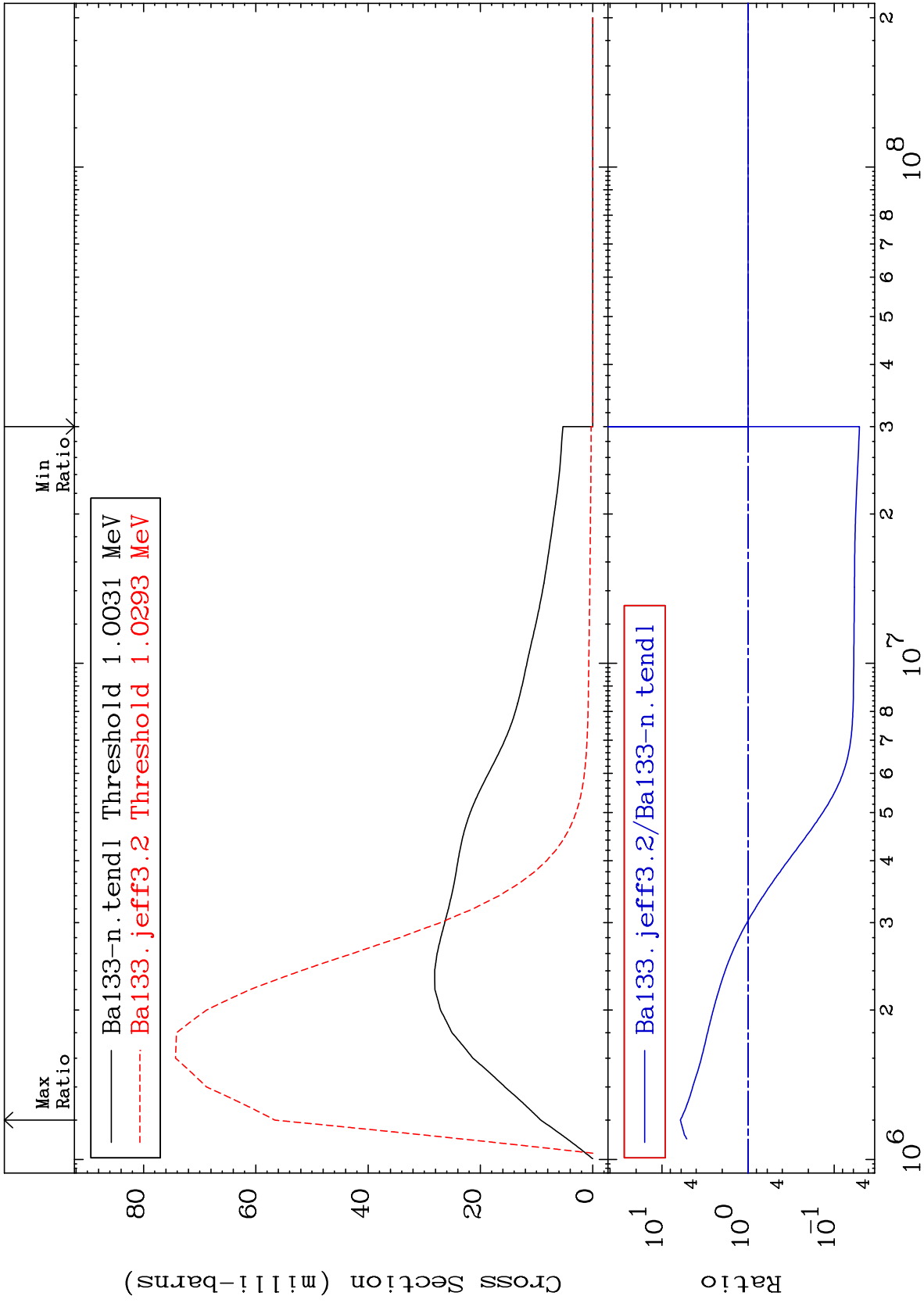
56-Ba-133

56-Ba-133

MAT 5634

995.5 keV (n,n') Level
Cross Section

56-Ba-133
-94.91 To 511.8 %



36

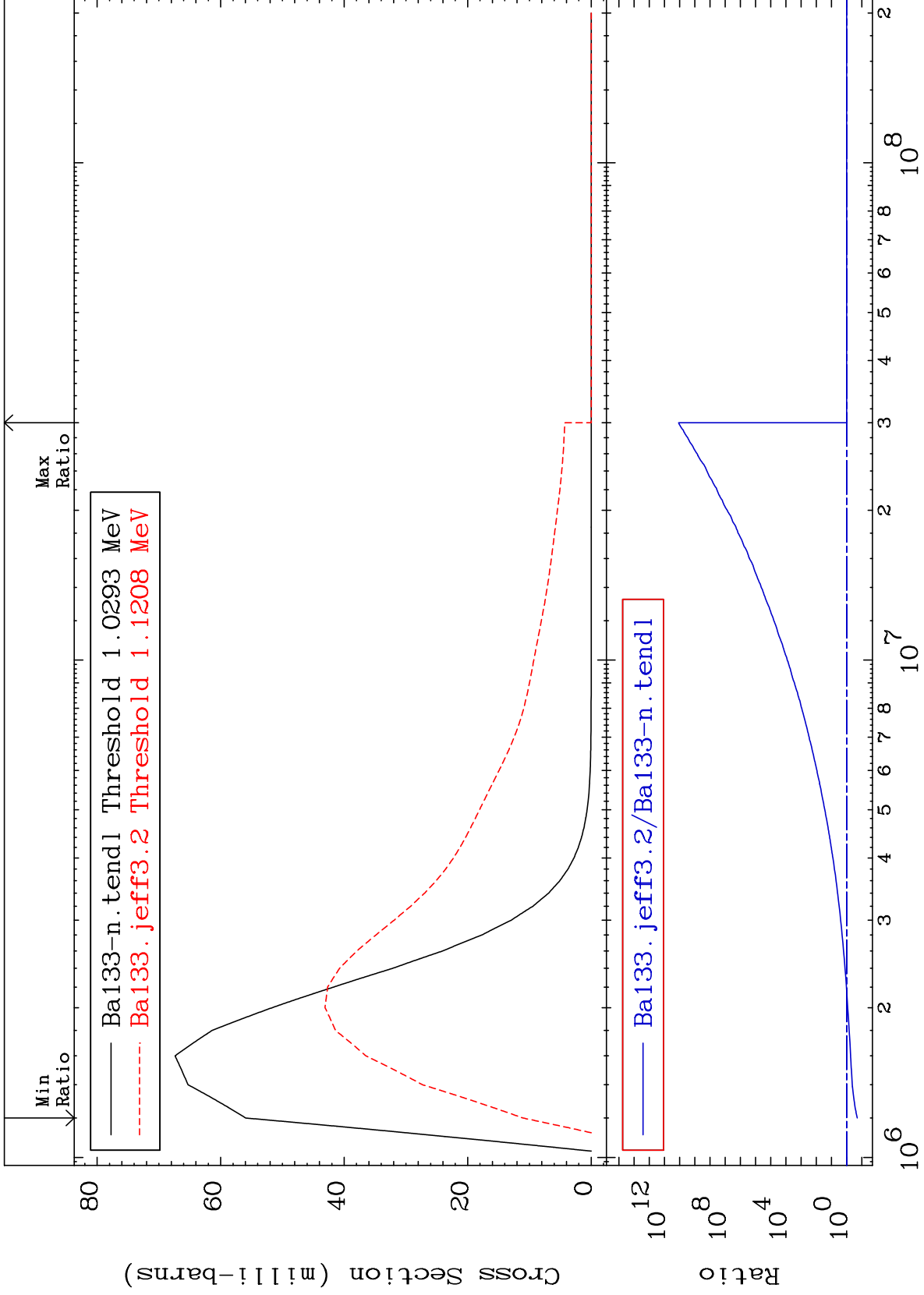
Incident Energy (eV)

56-Ba-133

MAT 5634

1.022 MeV (n,n') Level
Cross Section

56-Ba-133
-80.23 To 9999. %



37

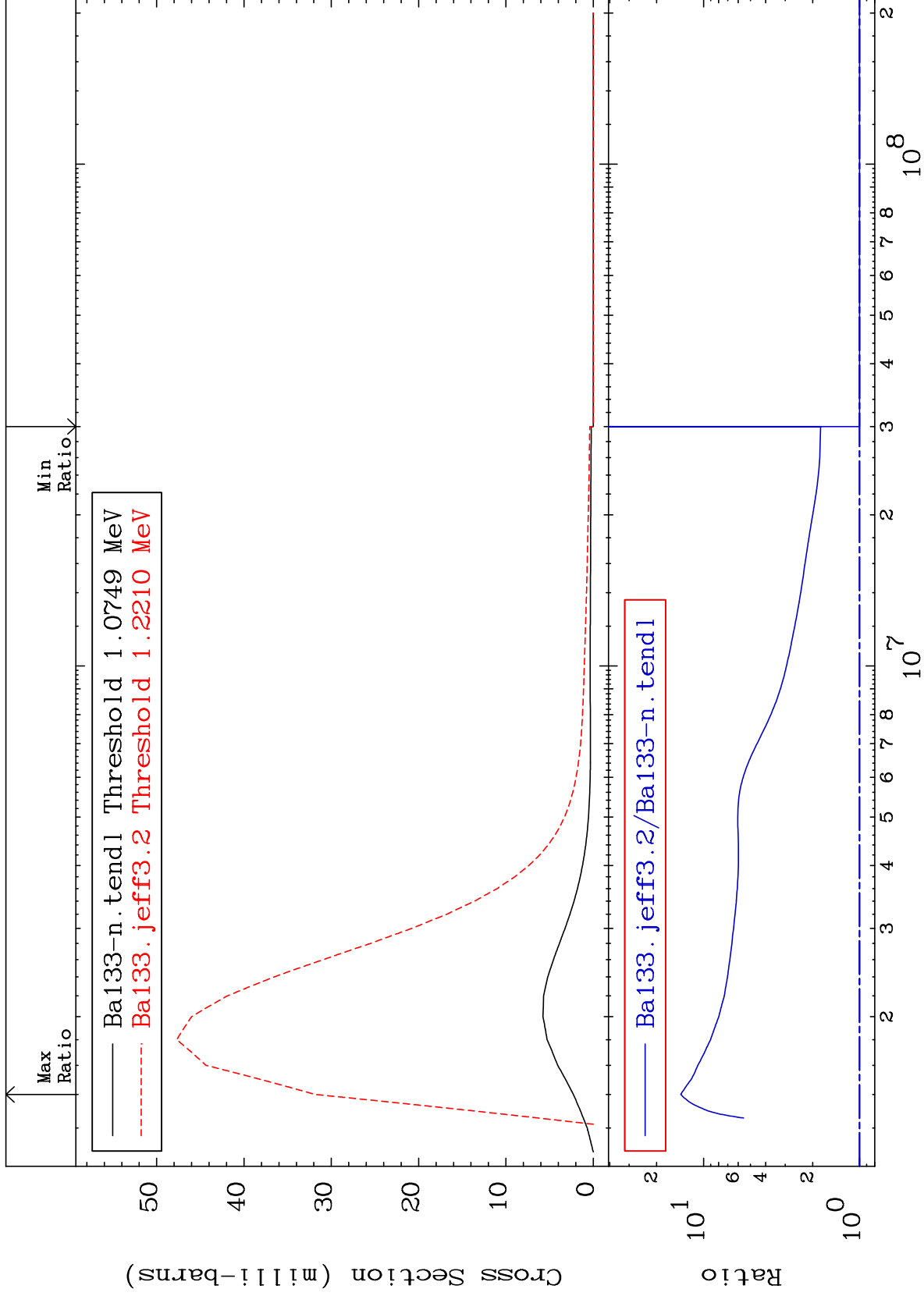
Incident Energy (eV)

56-Ba-133

MAT 5634

1.067 MeV (n,n') Level
Cross Section

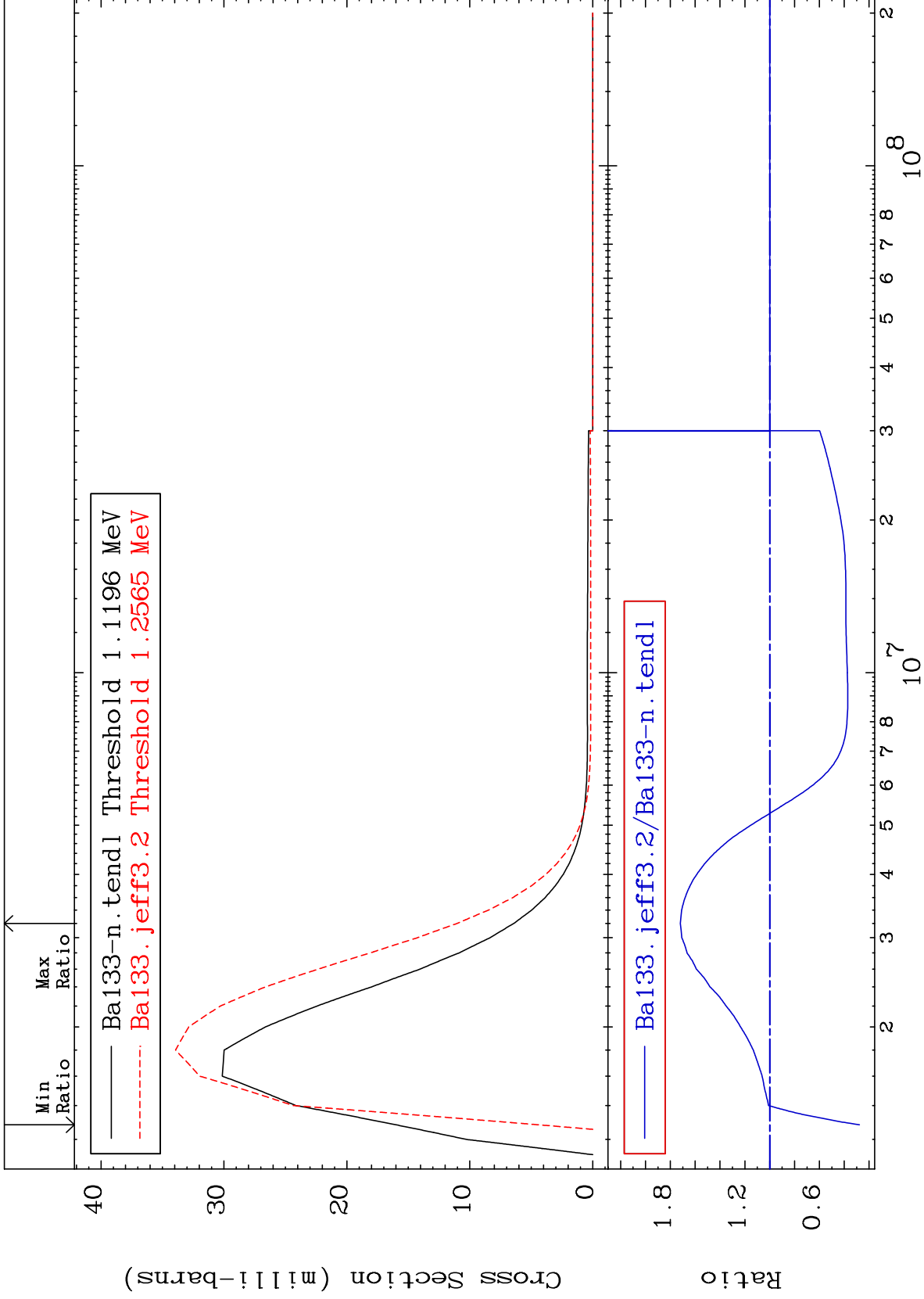
56-Ba-133
0.000 To 1301. %



MAT 5634

1.111 MeV (n,n') Level
Cross Section

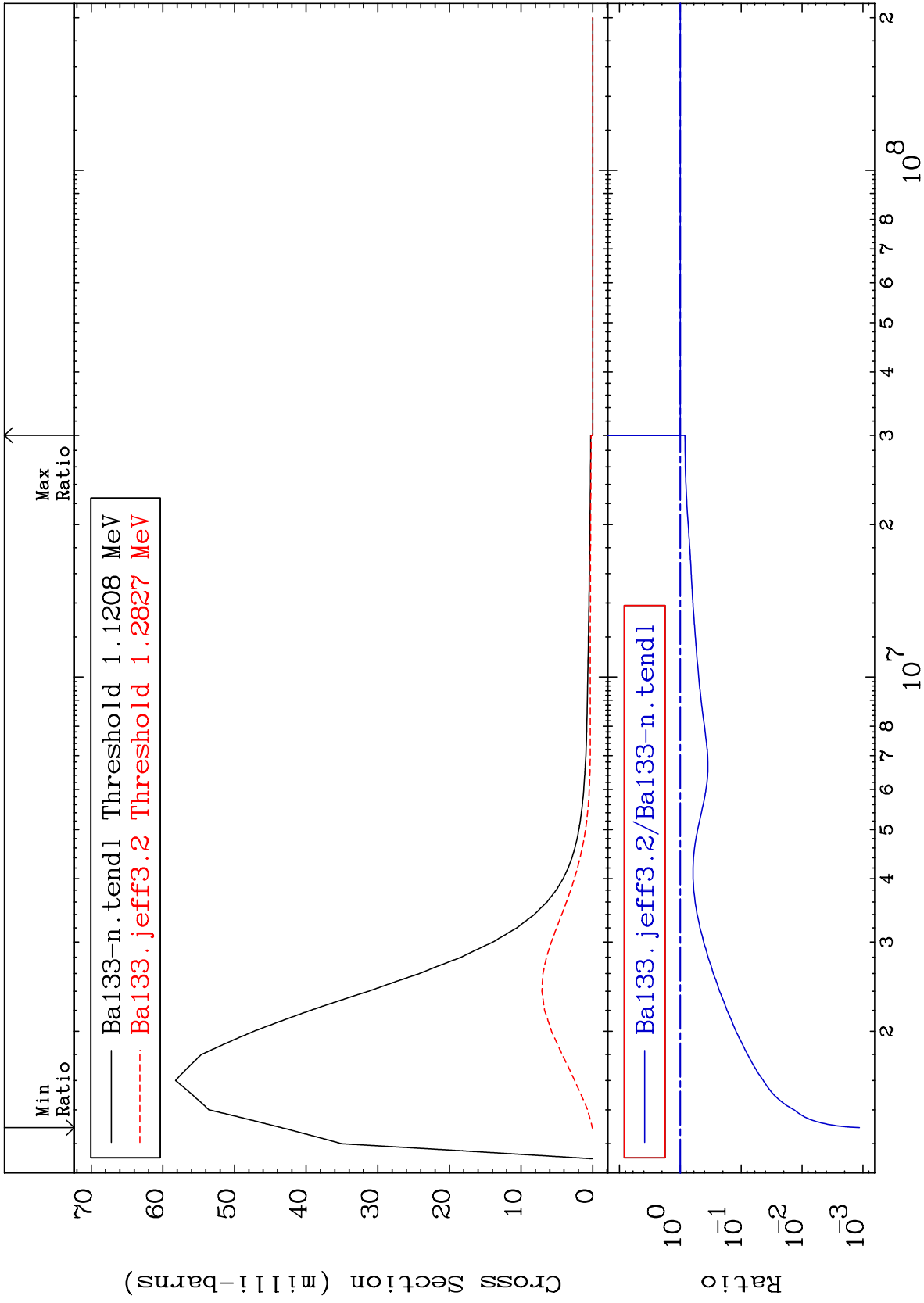
56-Ba-133
-72.21 To 71.92 %



MAT 5634

1.112 MeV (n,n') Level
Cross Section

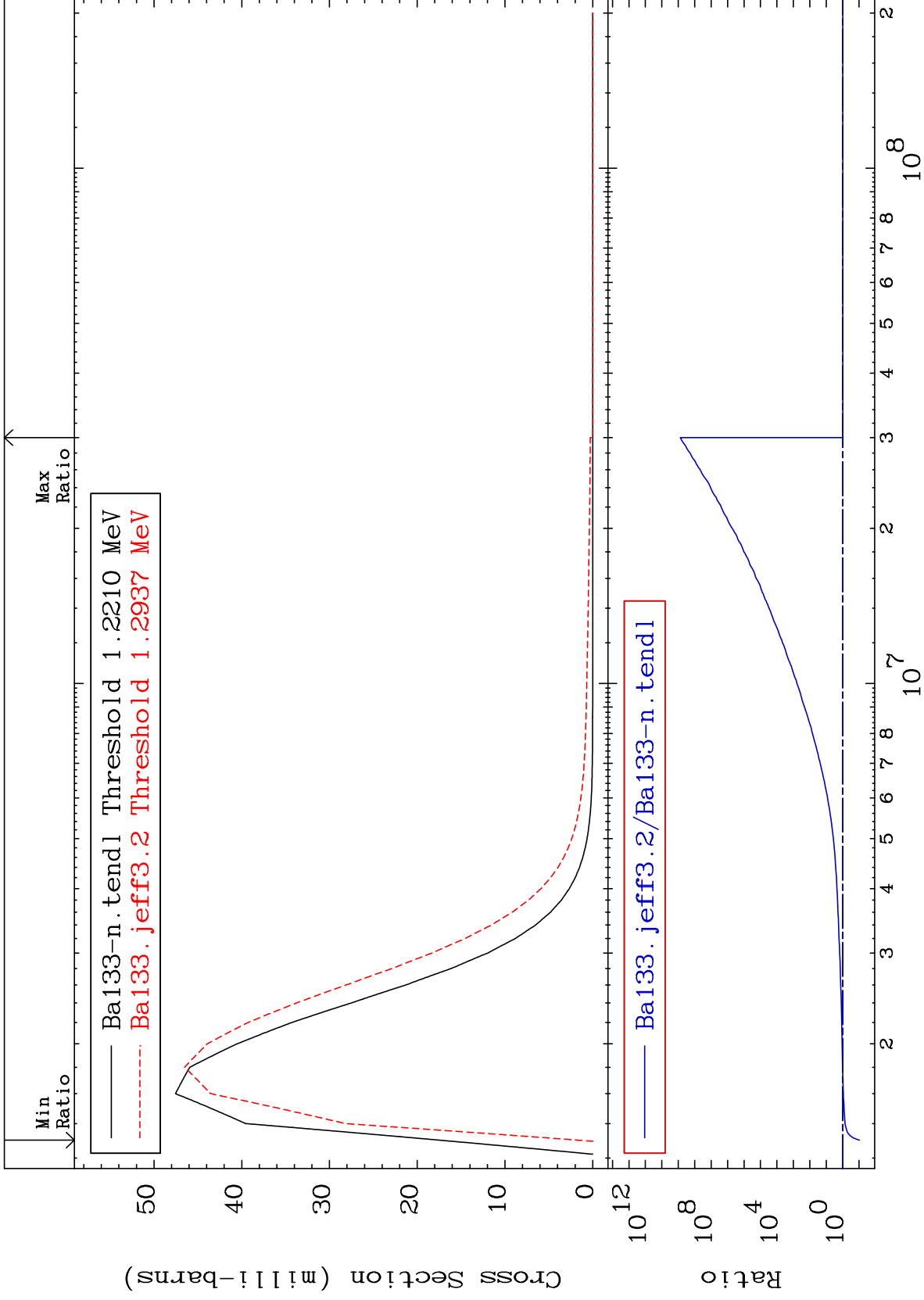
56-Ba-133
-99.89 To 0.000 %



MAT 5634

1.212 MeV (n,n') Level
Cross Section

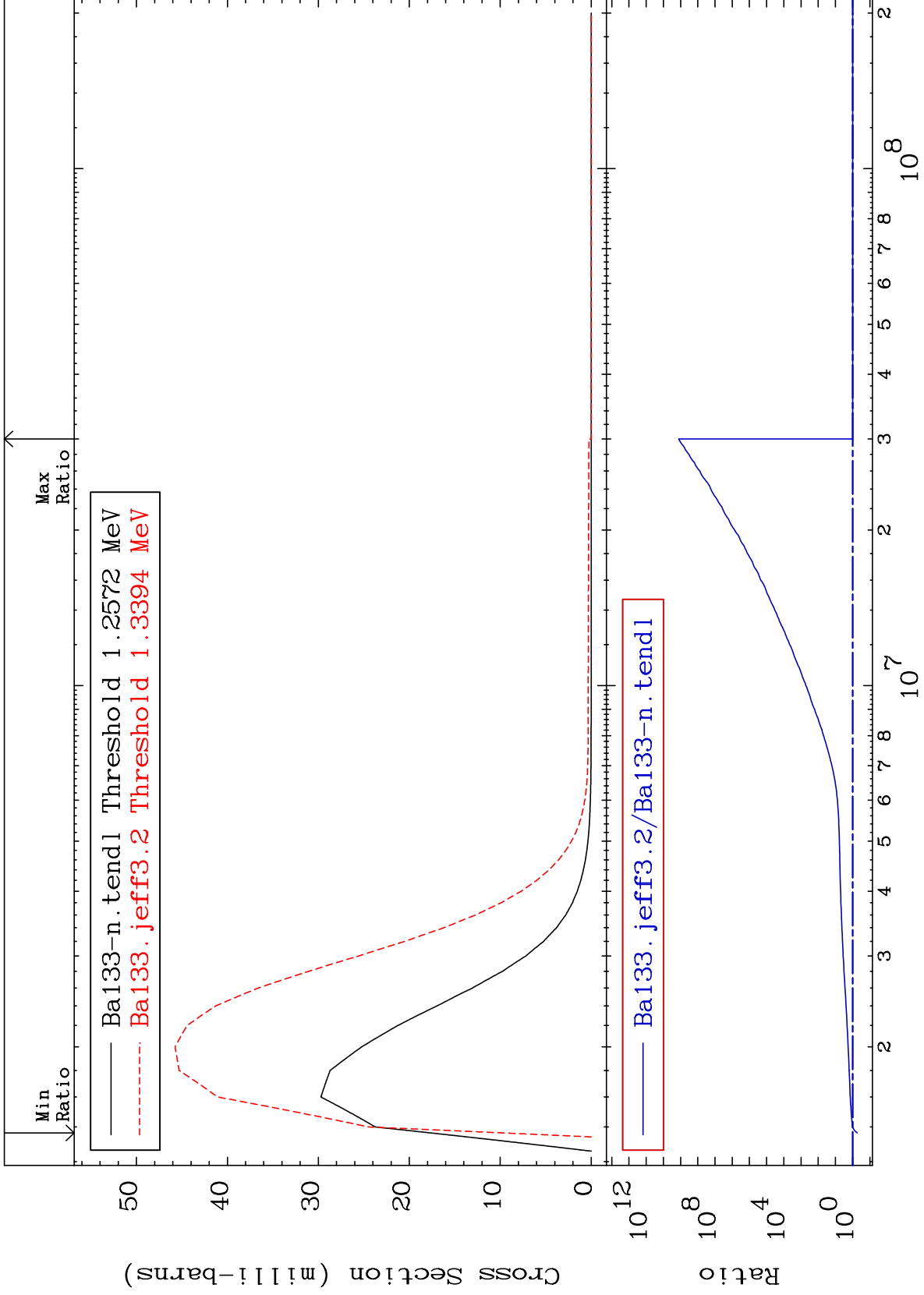
56-Ba-133
-90.44 To 9999. %



MAT 5634

1.248 MeV (n,n') Level
Cross Section

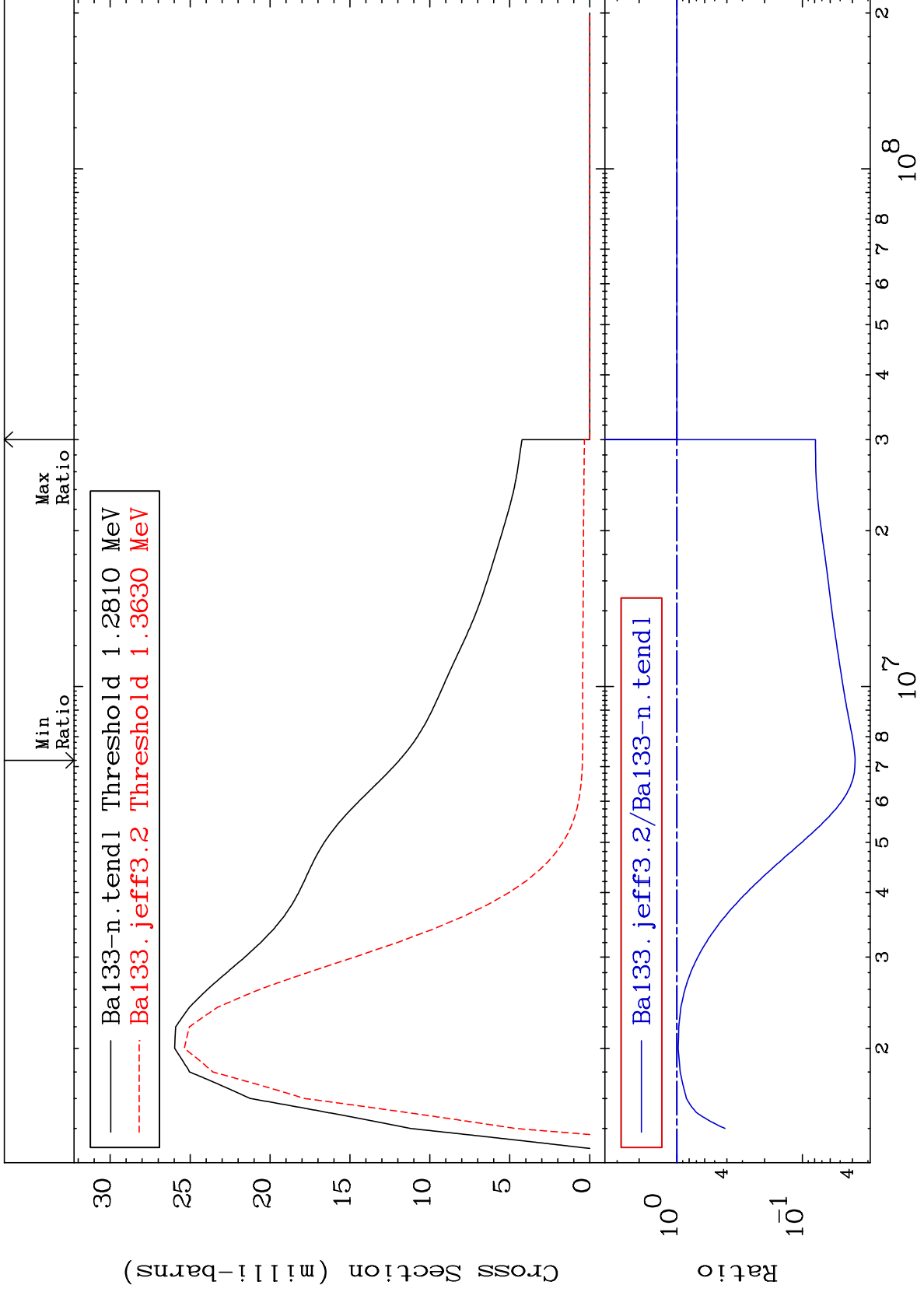
56-Ba-133
-46.01 To 9999. %



MAT 5634

1.271 MeV (n,n') Level
Cross Section

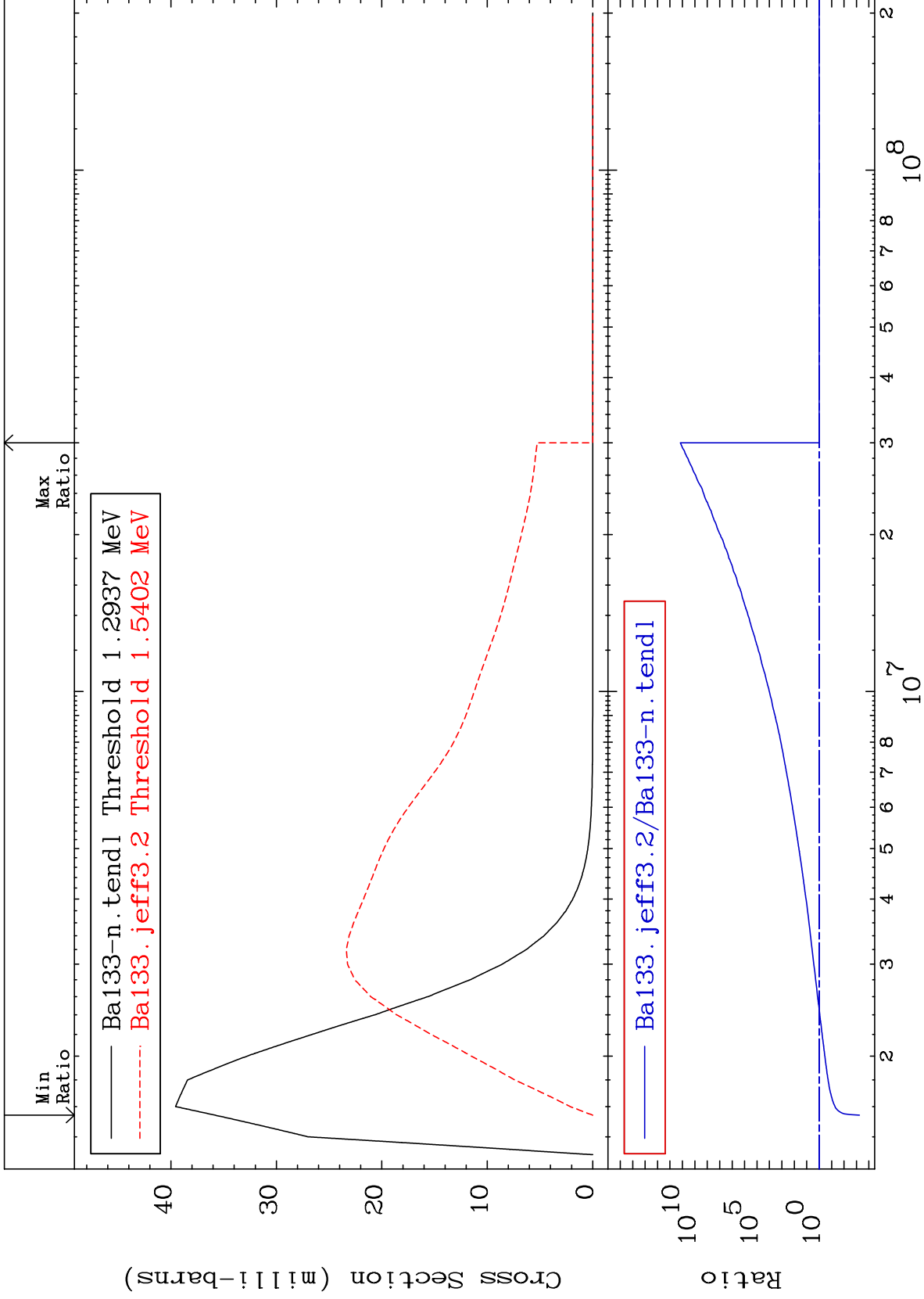
56-Ba-133
-96.20 To 0.000 %



MAT 5634

1.284 MeV (n,n') Level
Cross Section

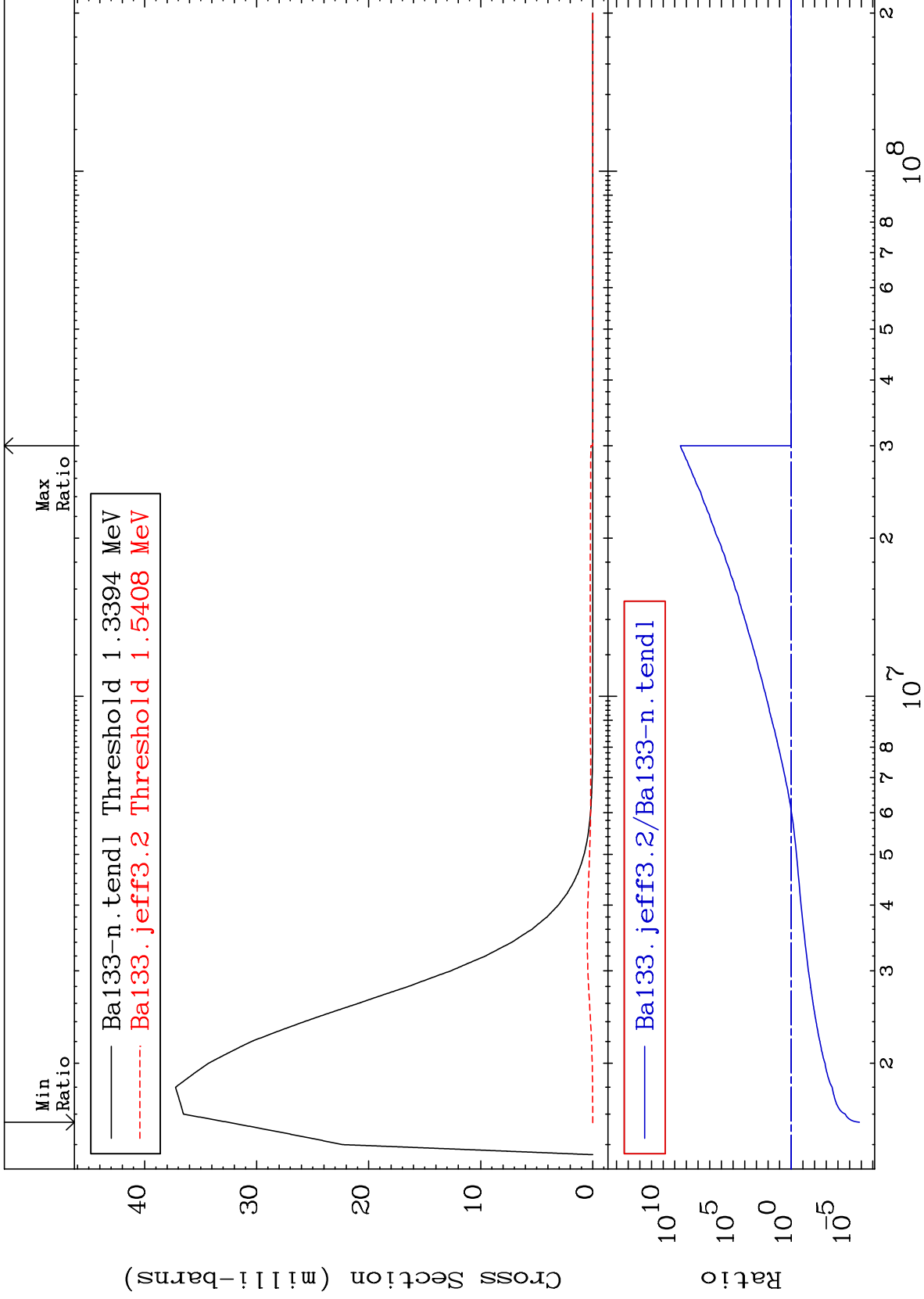
56-Ba-133
-99.94 To 9999. %



MAT 5634

1.329 MeV (n,n') Level
Cross Section

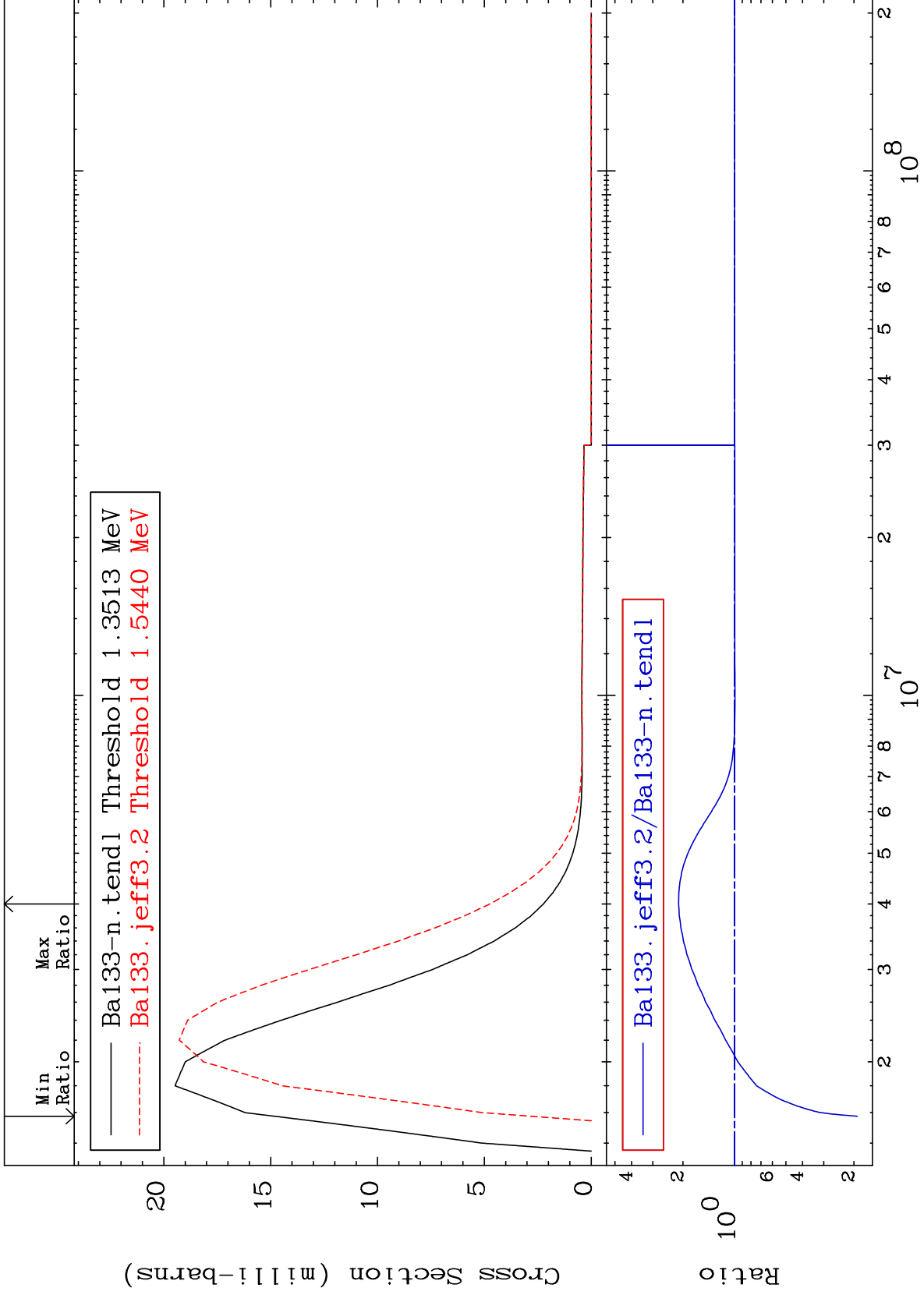
56-Ba-133
-100.0 To 9999. %



MAT 5634

1.341 MeV (n,n') Level
Cross Section

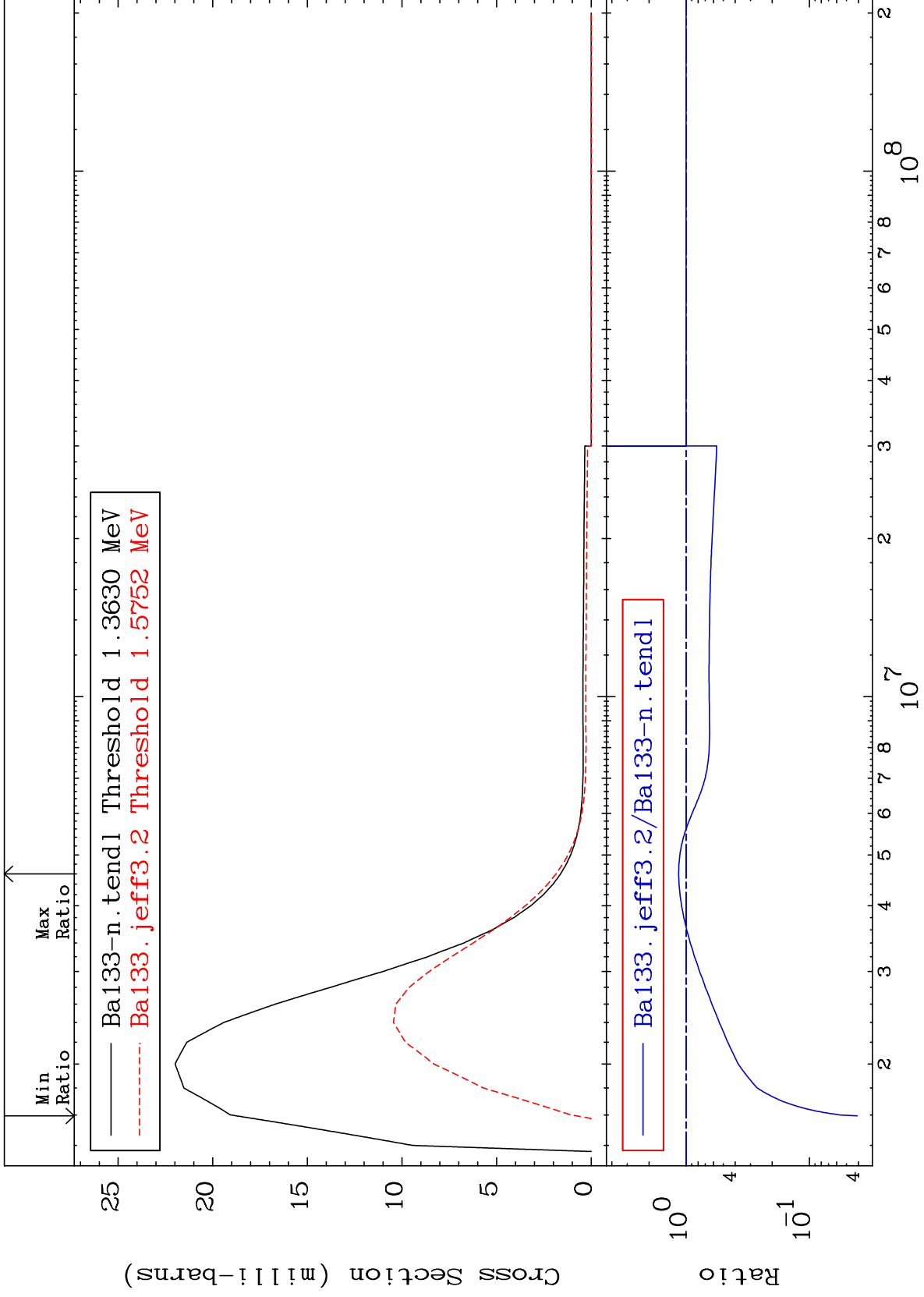
56-Ba-133
-80.87 To 112.1 %



MAT 5634

1.353 MeV (n,n') Level
Cross Section

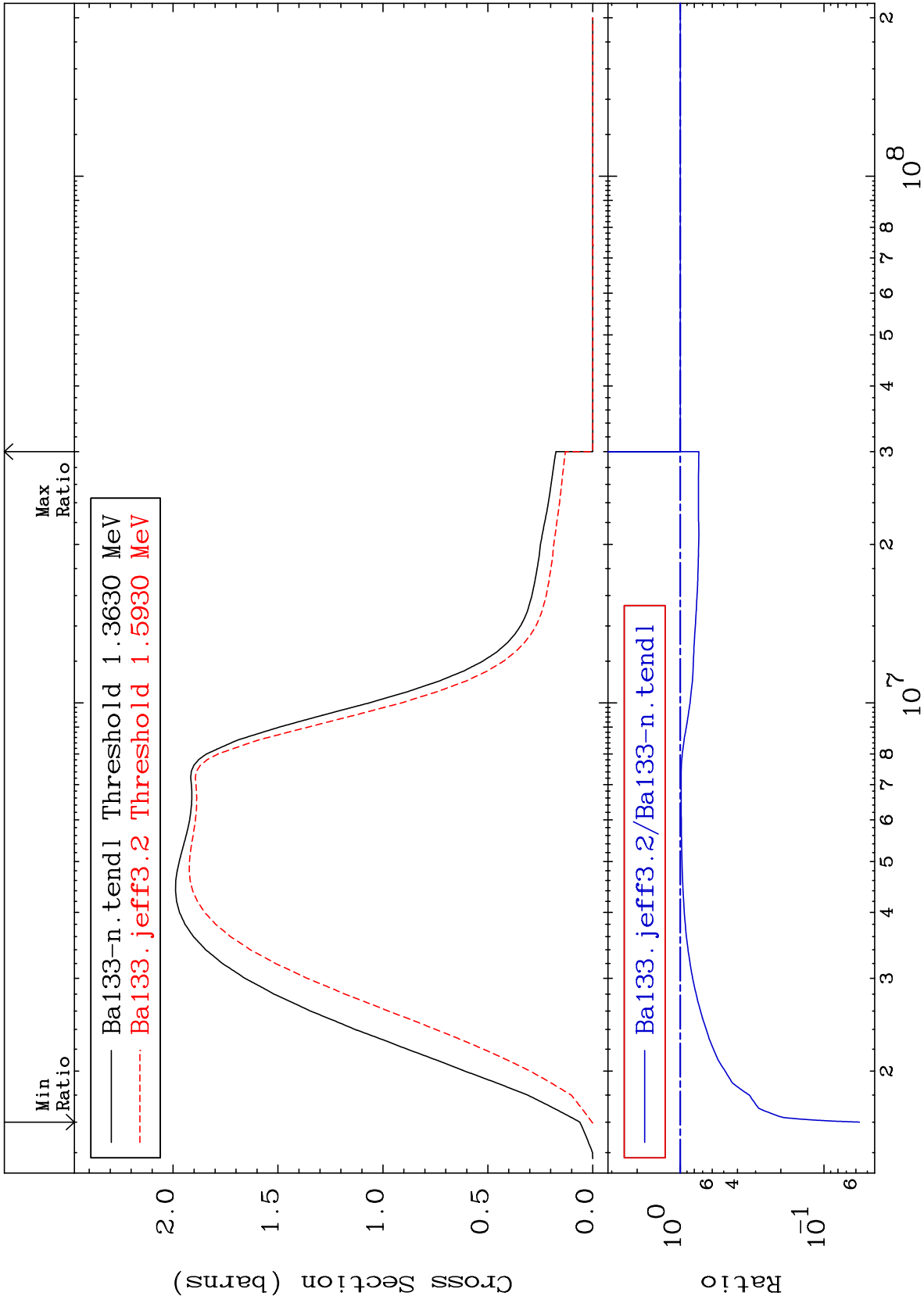
56-Ba-133
-95.91 To 15.01 %



MAT 5634

(n, n') Continuum
Cross Section

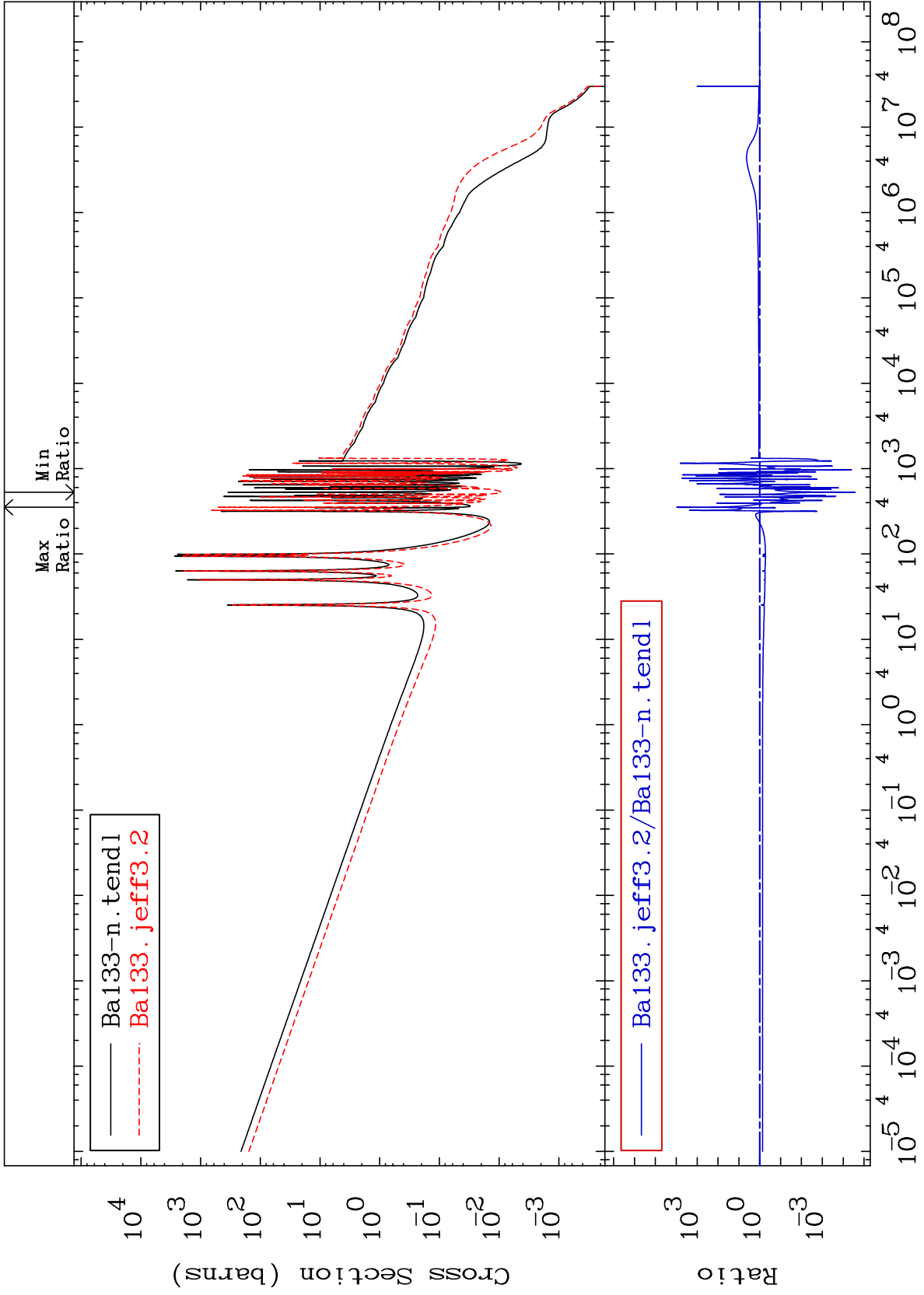
56-Ba-133
-94.33 To 0.000 %



MAT 5634

(n, γ)
Cross Section

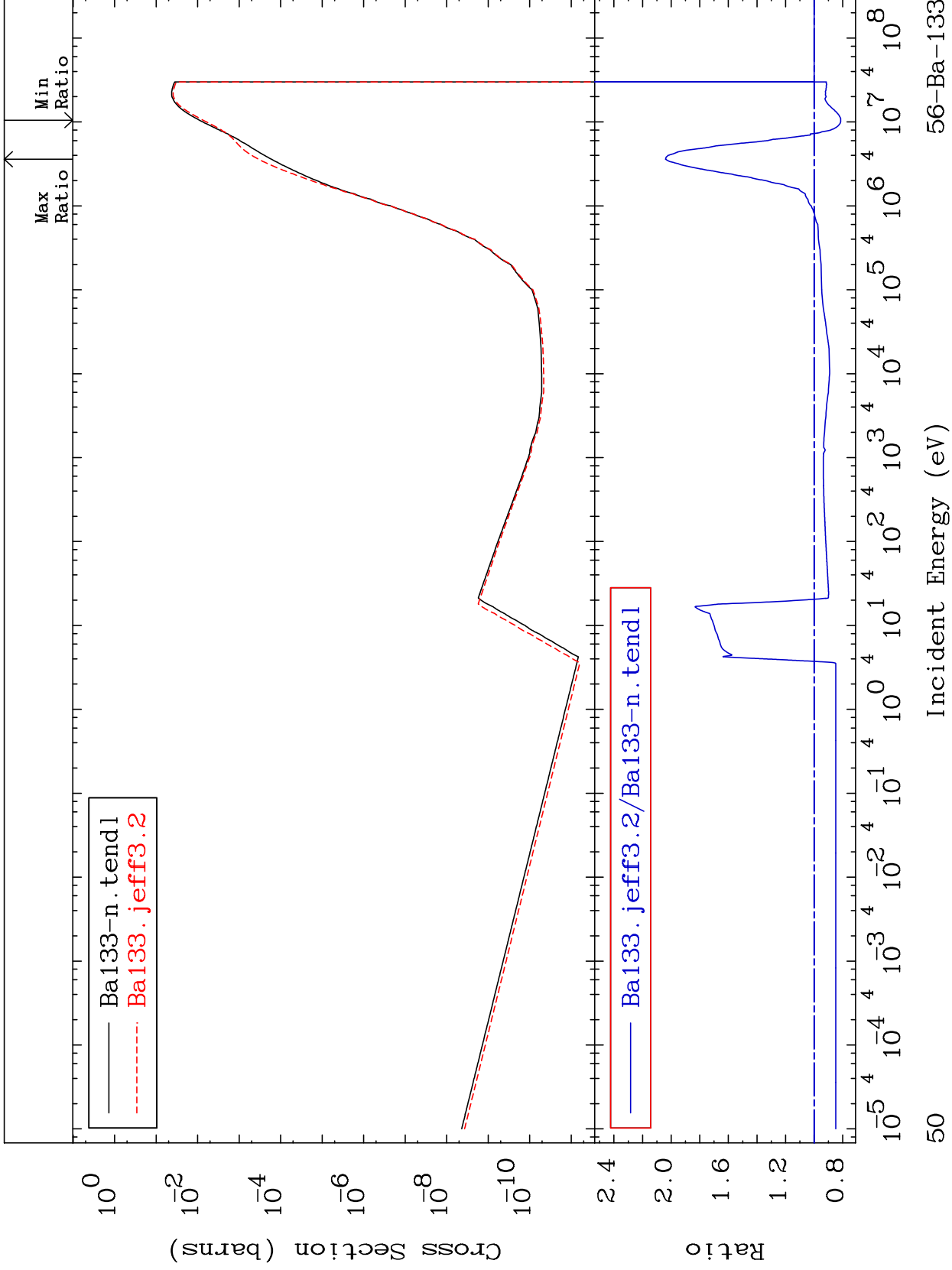
56-Ba-133
-100.0 To 9999. %



MAT 5634

(n,p)
Cross Section

56-Ba-133
-18.52 To 103.9 %



MAT 5634

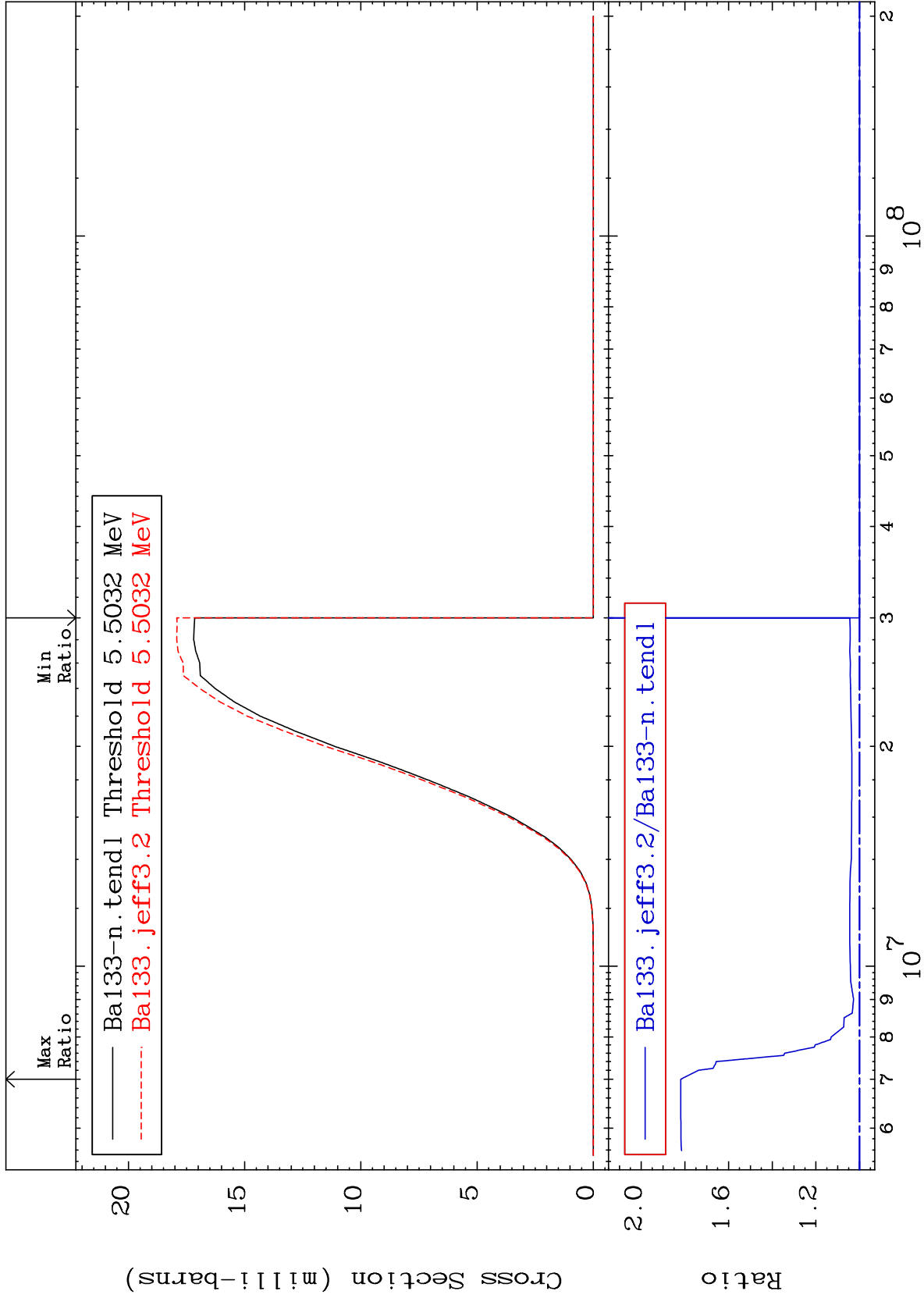
(n, d)

56-Ba-133

Cross Section

0.000

To 81.90 %



51

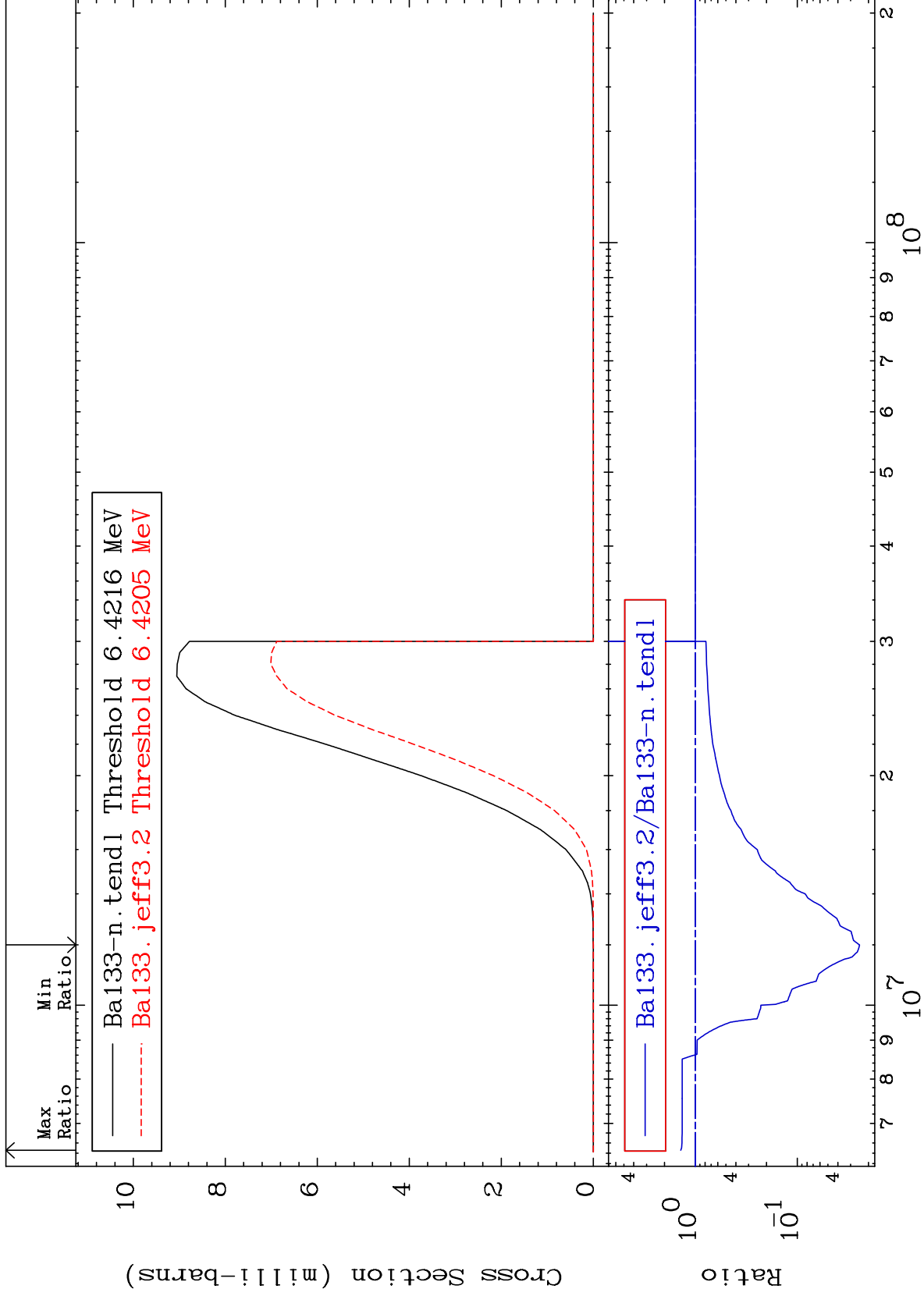
Incident Energy (eV)

56-Ba-133

MAT 5634

(n, t)
Cross Section

56-Ba-133
-97.55 To 38.50 %



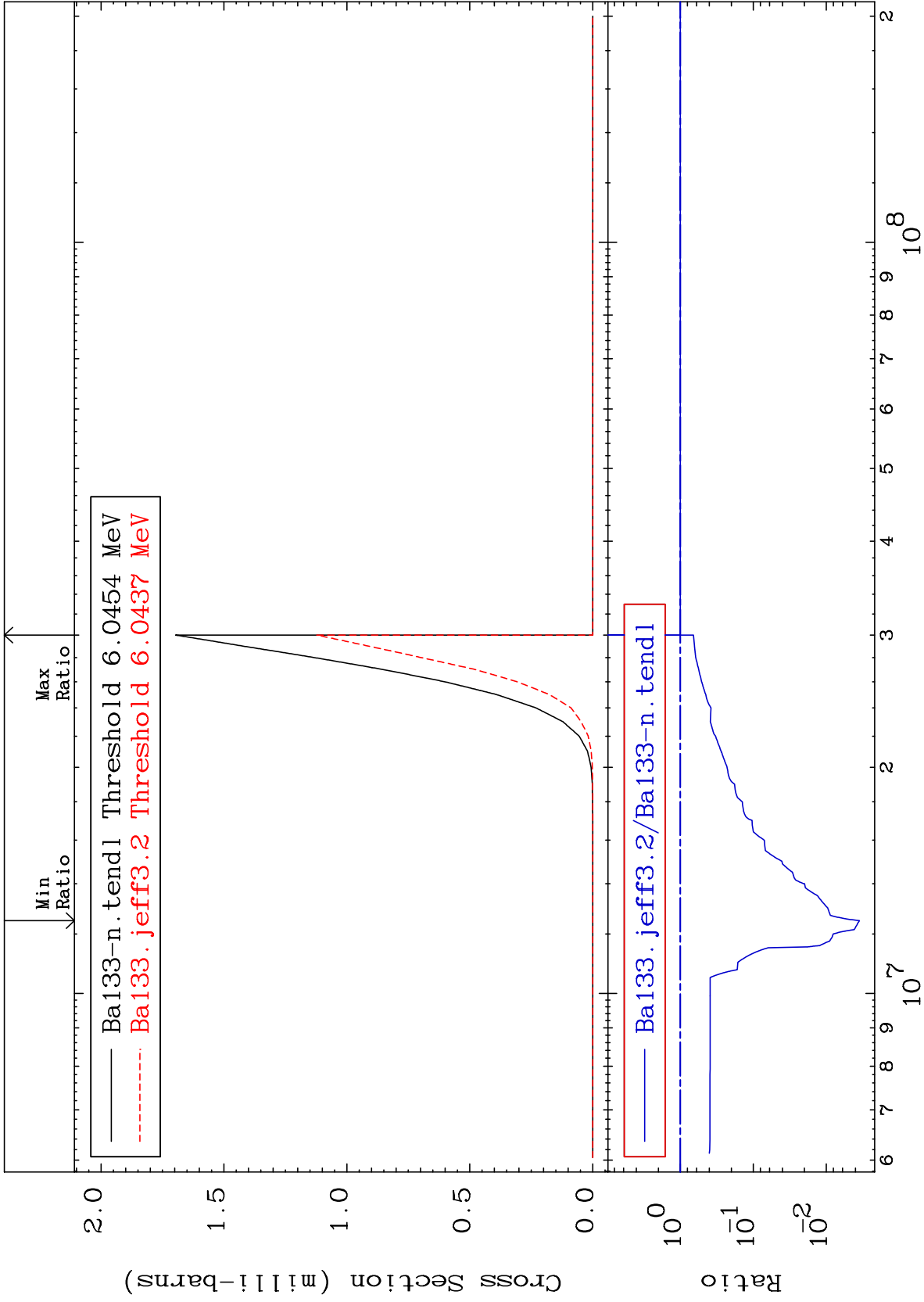
MAT 5634

(n, He-3)

56-Ba-133

Cross Section

-99.65 To 0.000 %



53

56-Ba-133

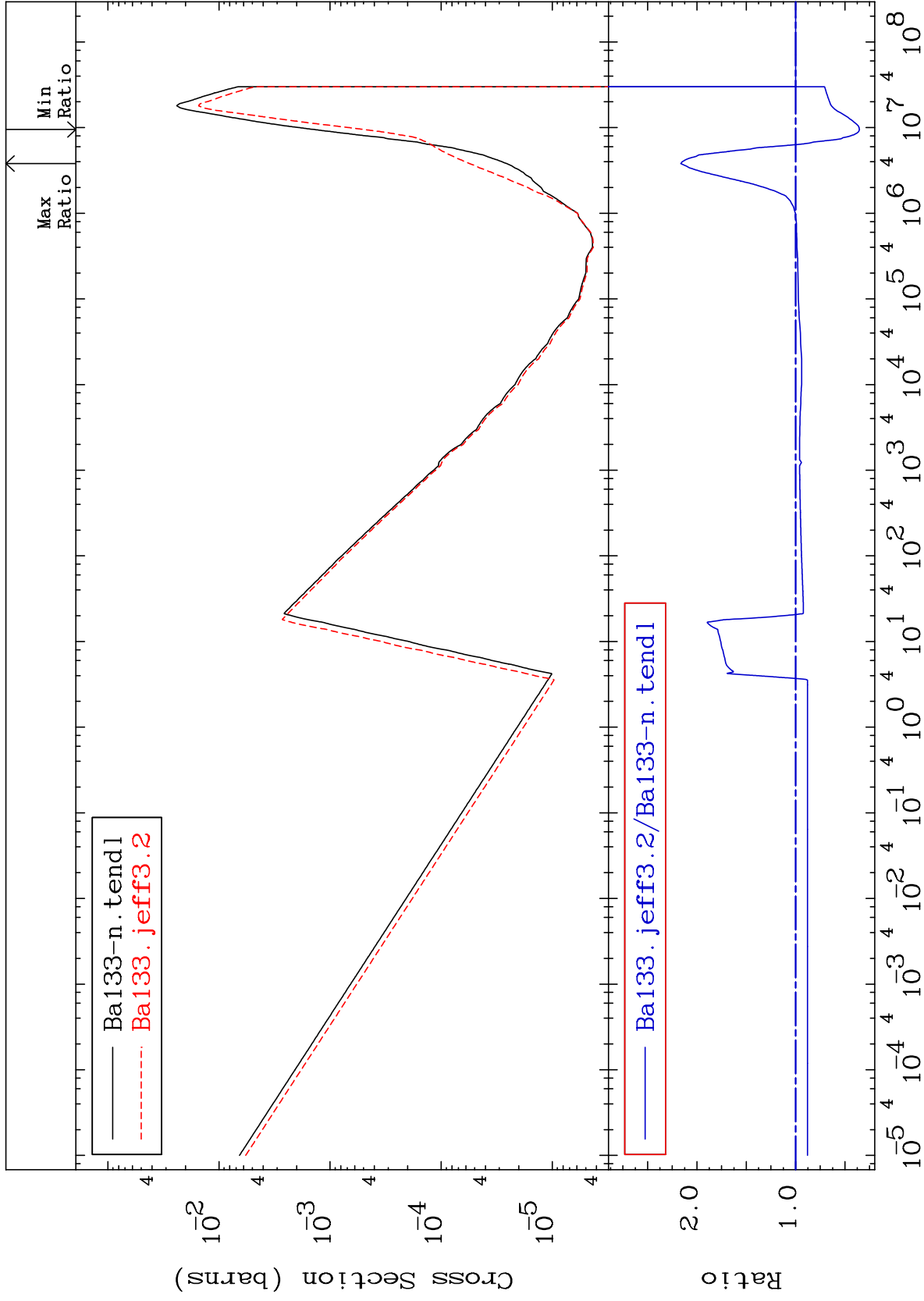
MAT 5634

(n, α)

56-Ba-133

Cross Section

-64.82 To 116.4 %



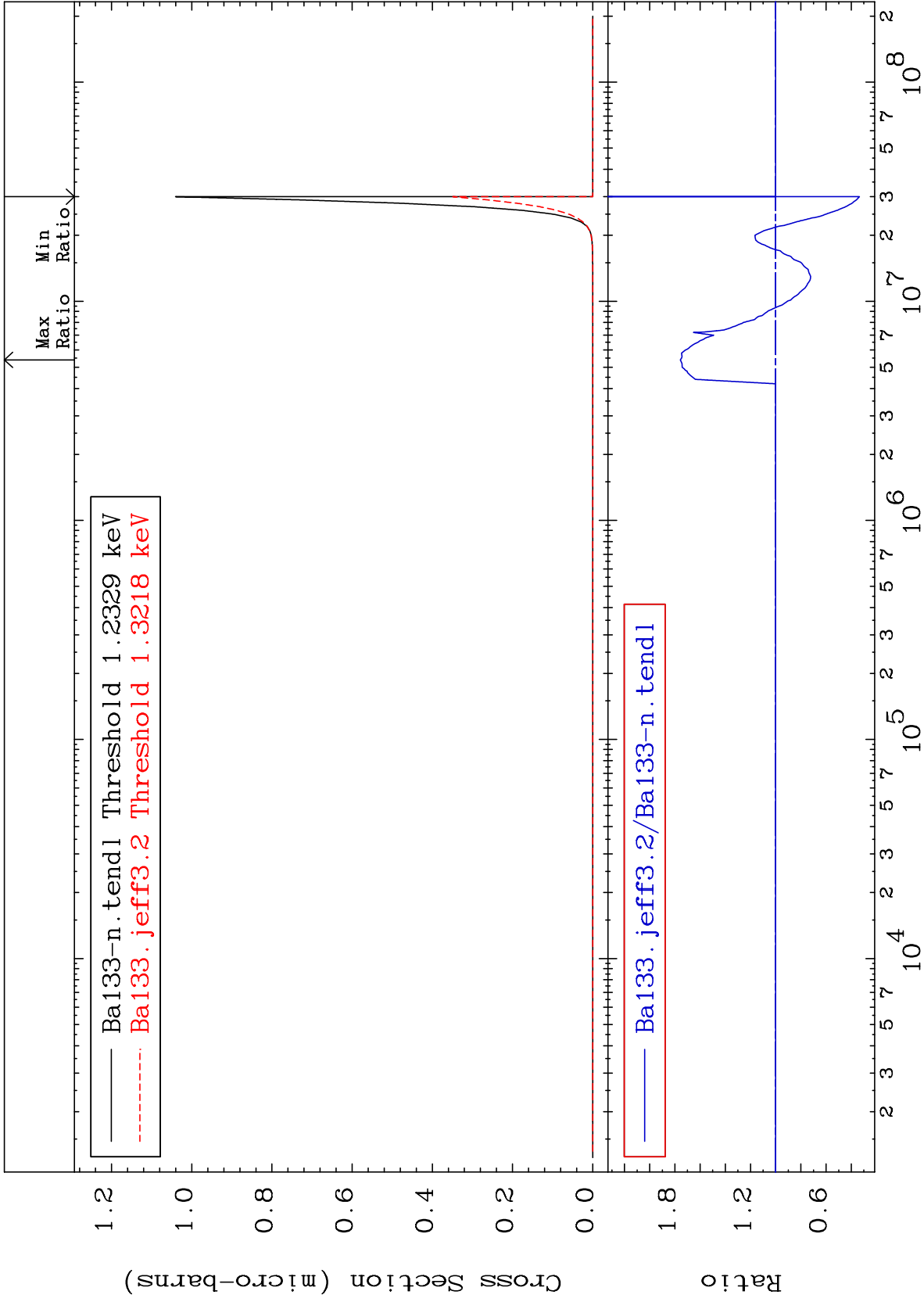
MAT 5634

(n,2α)

56-Ba-133

Cross Section

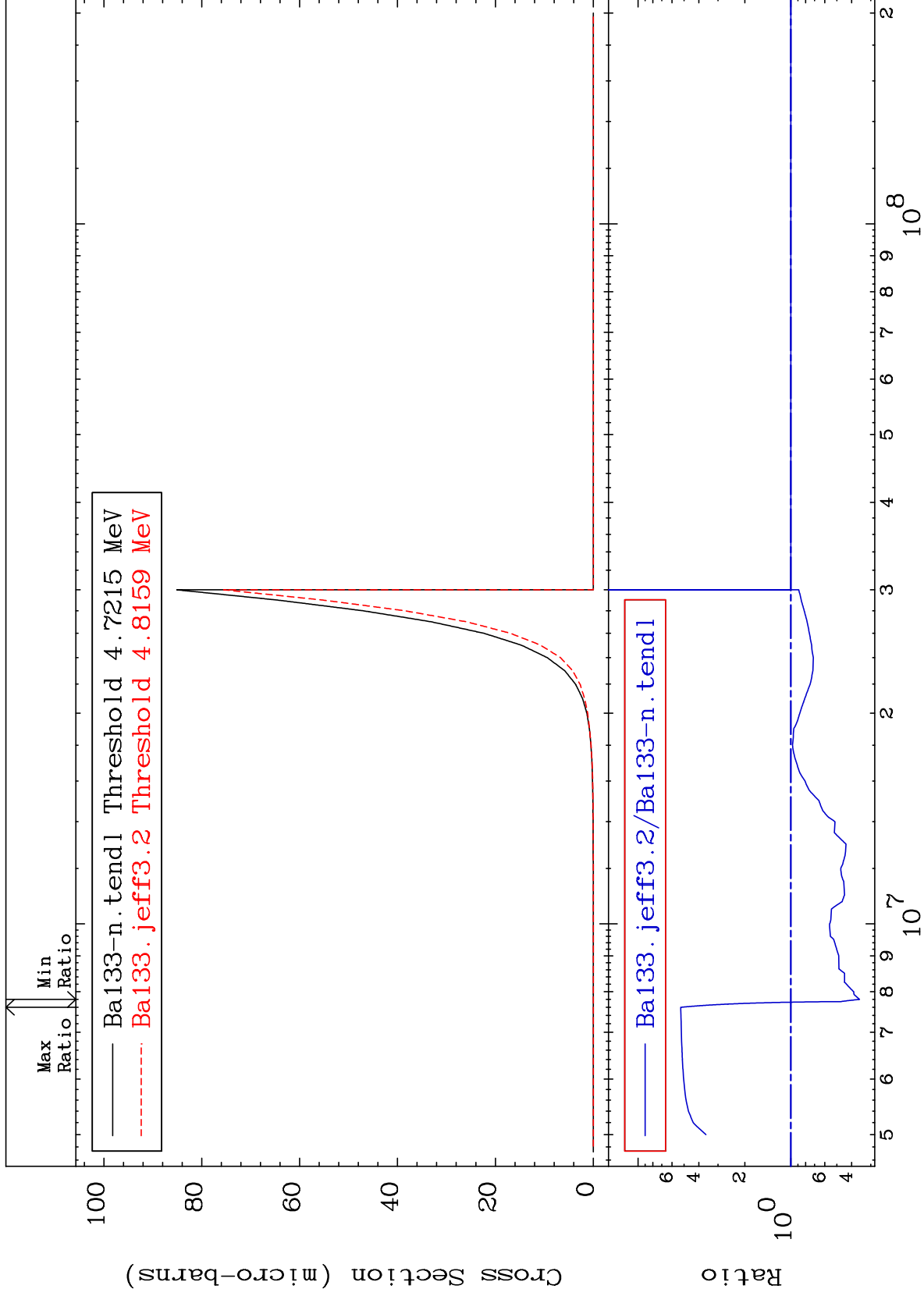
-66.47 To 75.67 %



MAT 5634

(n,2p)
Cross Section

56-Ba-133
-64.46 To 425.9 %



56

Incident Energy (eV)

56-Ba-133

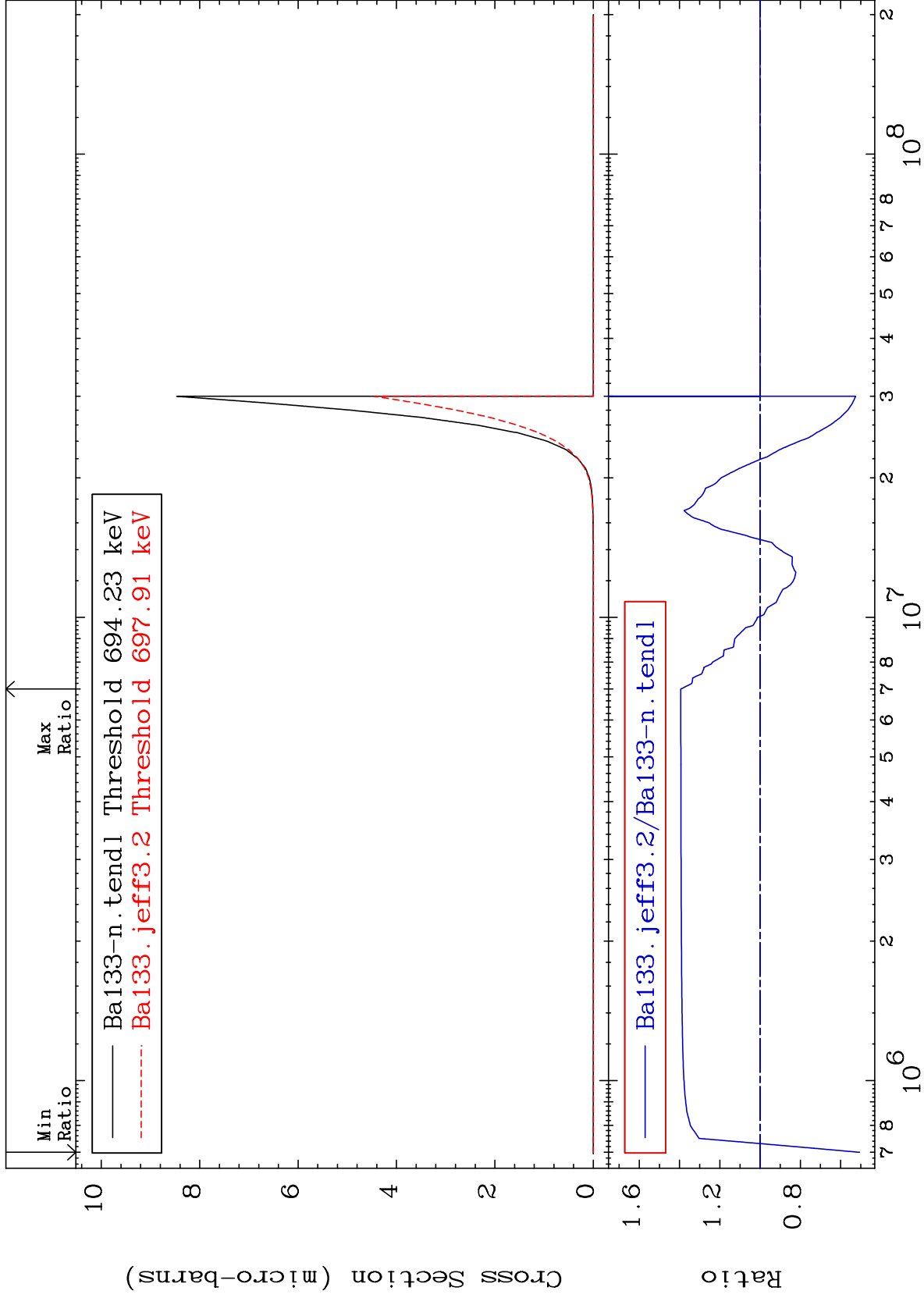
MAT 5634

(n, p) α

56-Ba-133

Cross Section

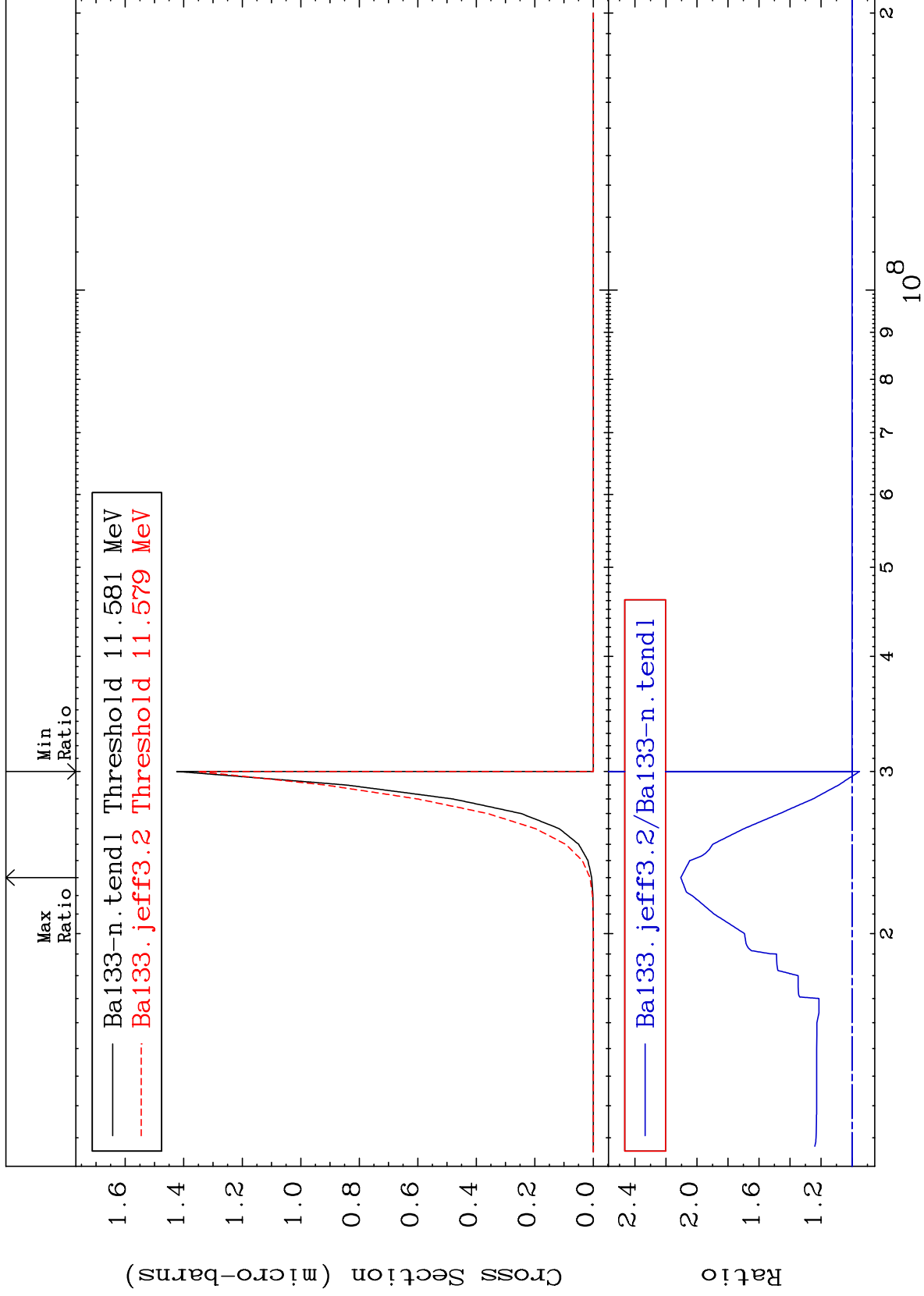
-49.38 To 39.38 %



57

Incident Energy (eV)

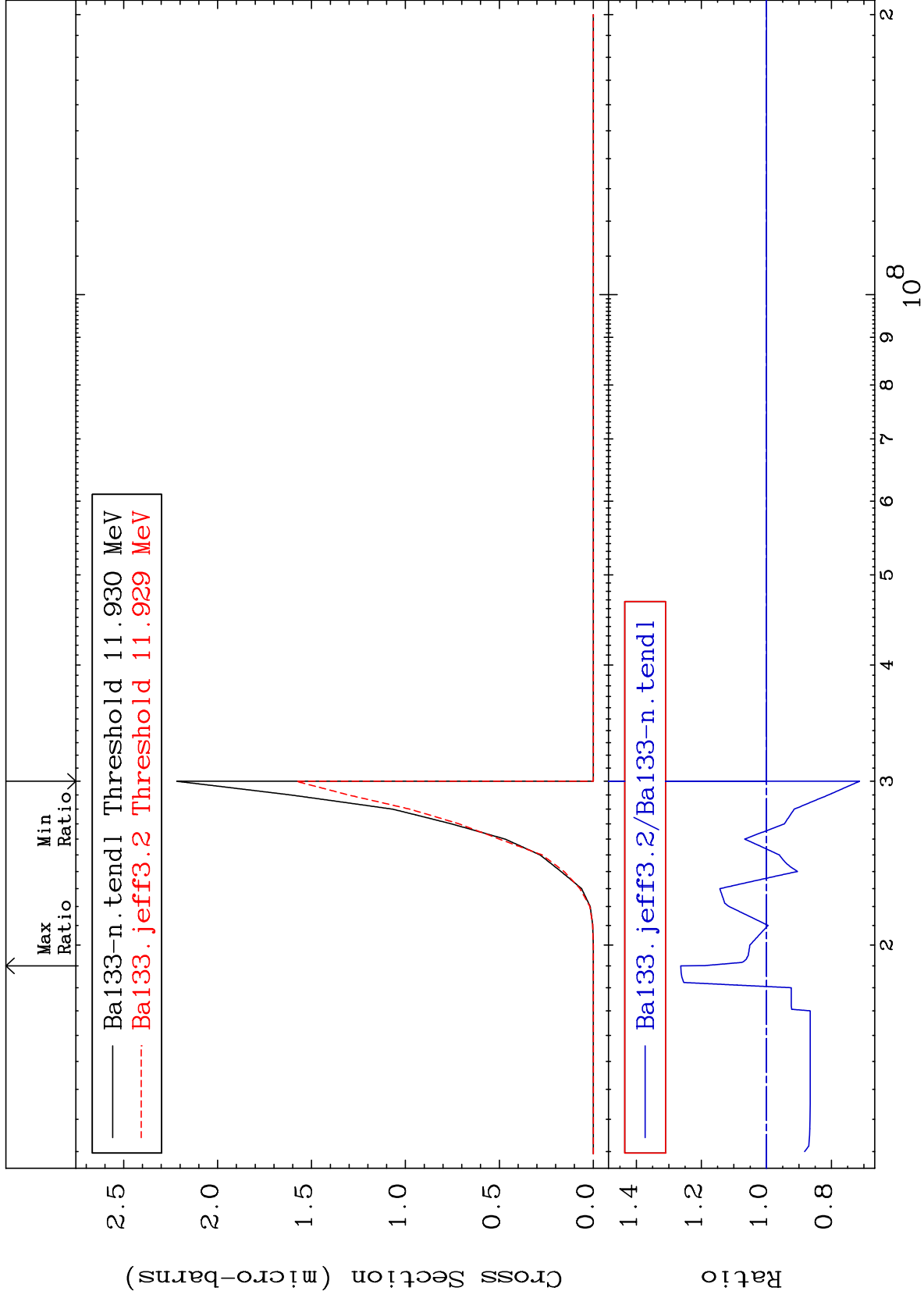
56-Ba-133



MAT 5634

(n, p) t
Cross Section

56-Ba-133
-28.63 To 26.33 %

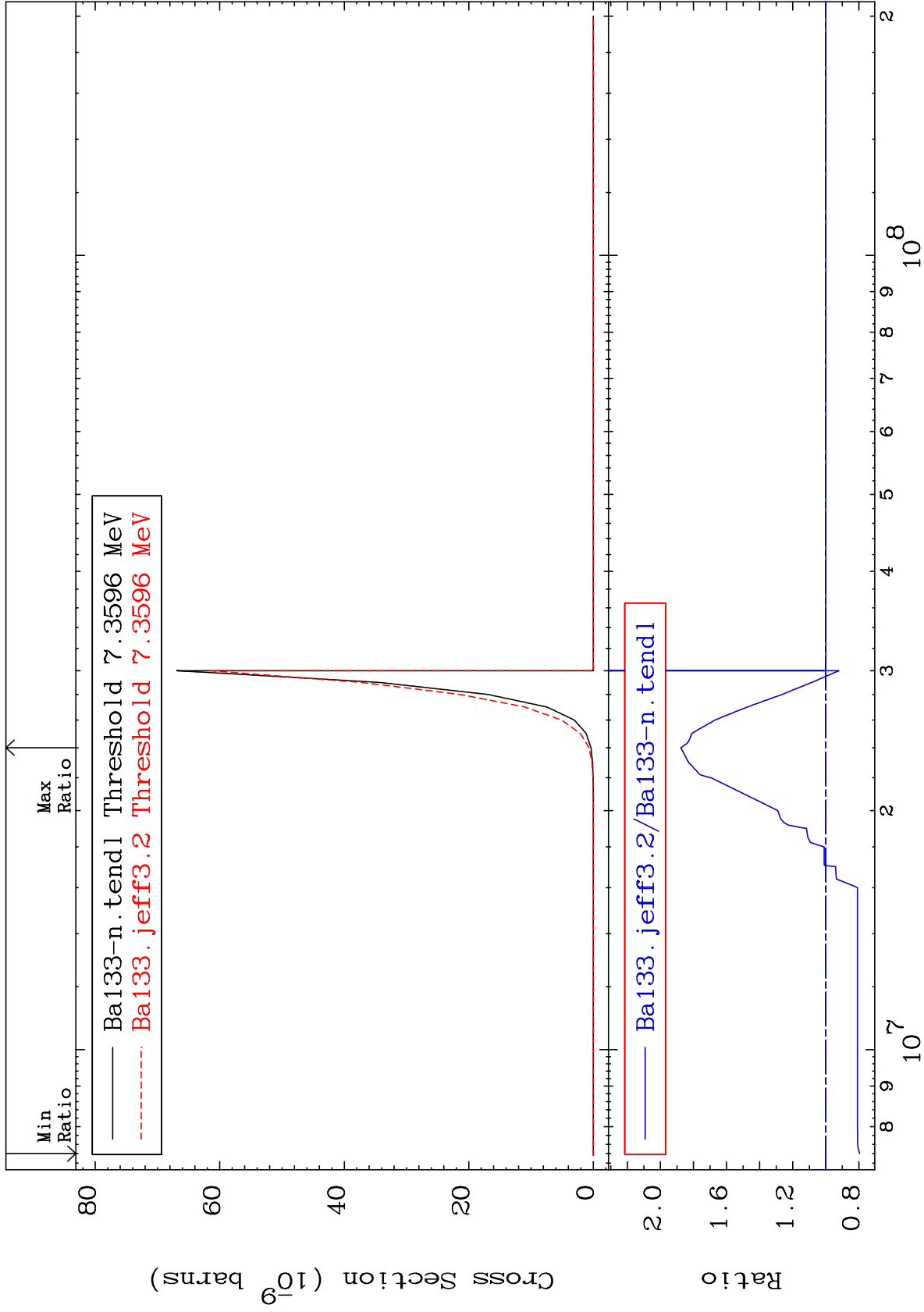


MAT 5634

56-Ba-133

(n,d) α
Cross Section

-20.39 To 87.69 %



60

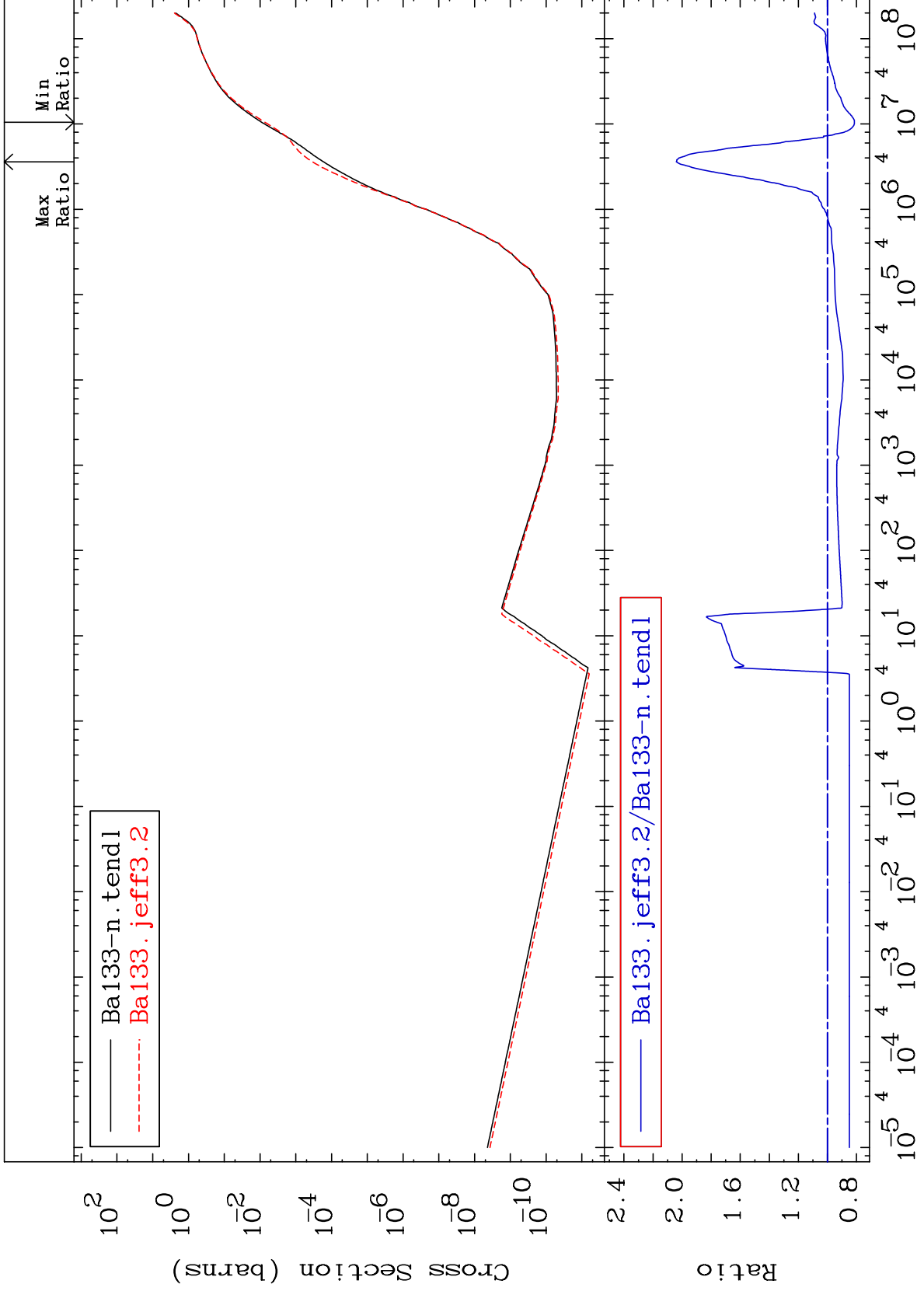
Incident Energy (eV)

56-Ba-133

MAT 5634

Hydrogen Production Cross Section

56-Ba-133
-18.52 To 103.9 %



61

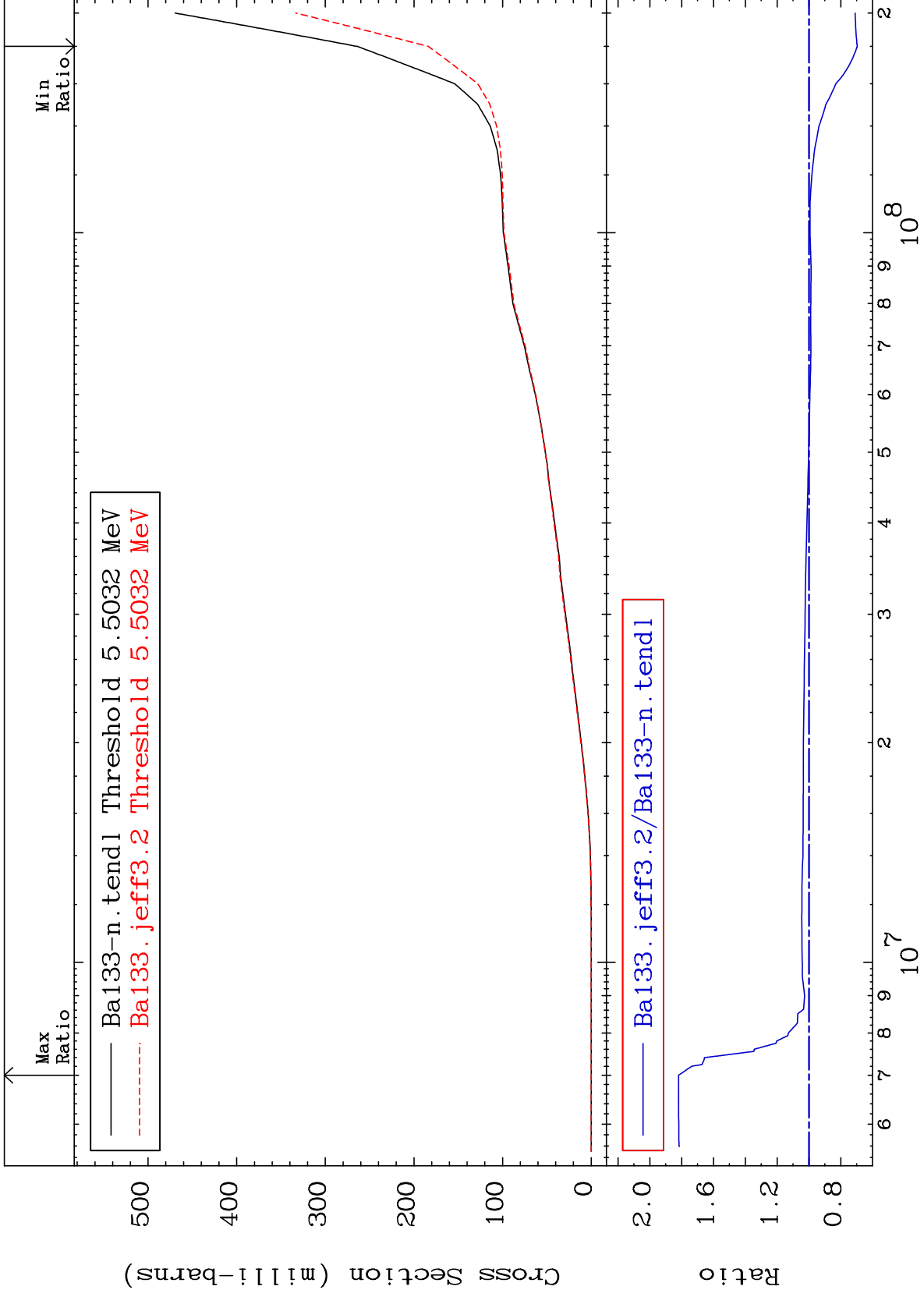
Incident Energy (eV)

56-Ba-133

MAT 5634

Deuterium Production
Cross Section

56-Ba-133
-30.36 To 81.90 %



62

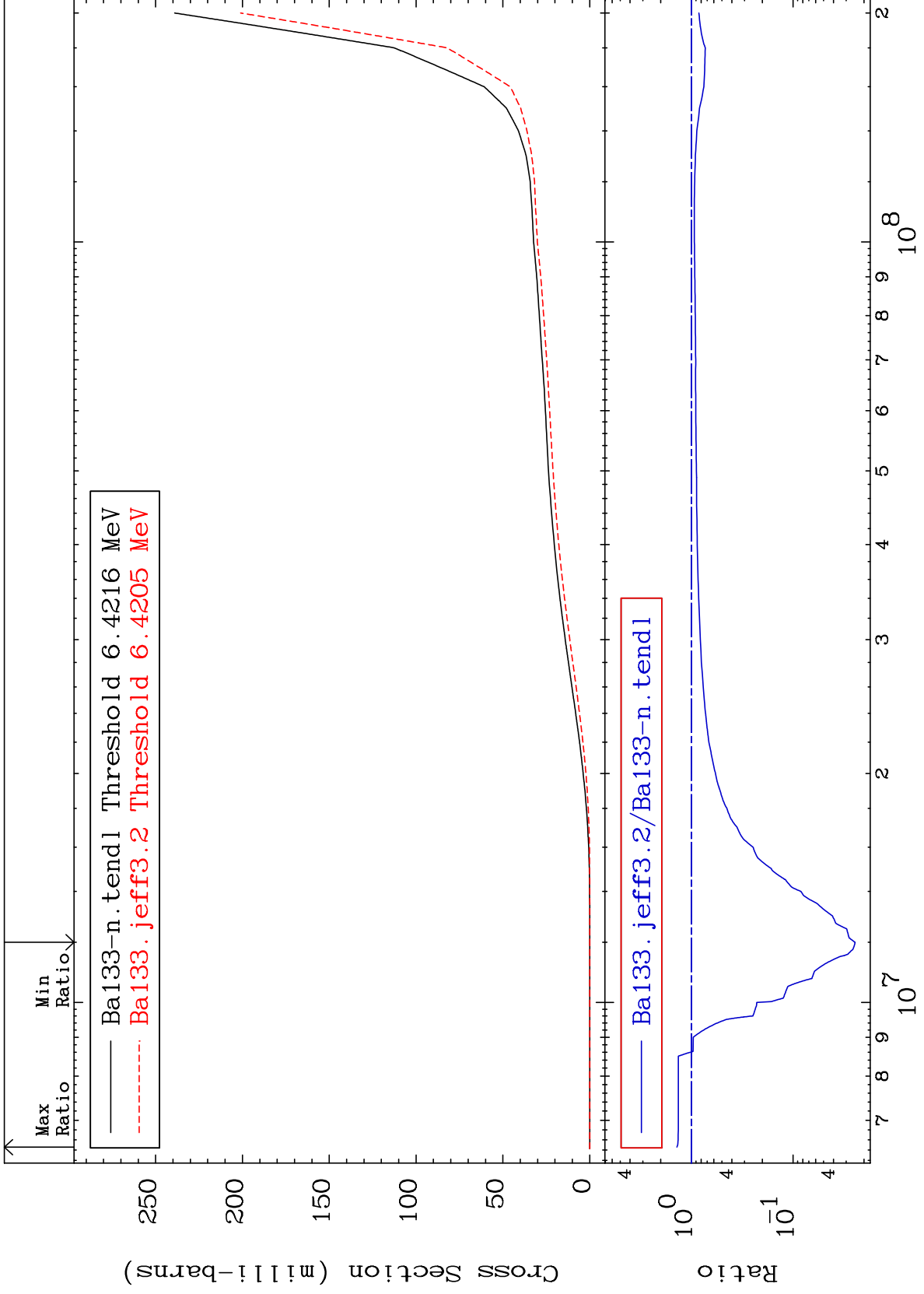
Incident Energy (eV)

56-Ba-133

MAT 5634

Tritium Production
Cross Section

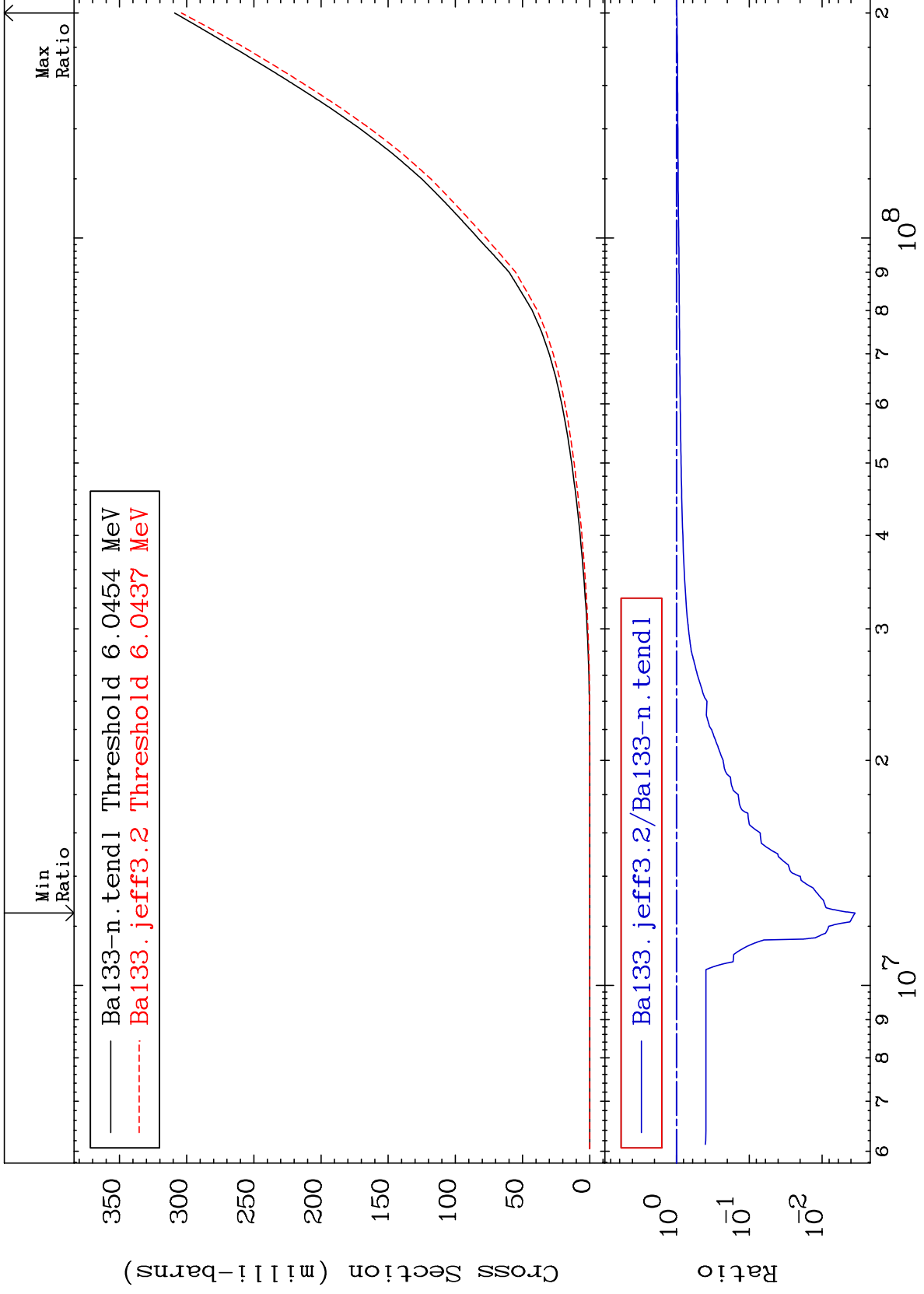
56-Ba-133
-97.55 To 38.50 %



MAT 5634

He-3 Production
Cross Section

56-Ba-133
-99.65 To -1.668%



64

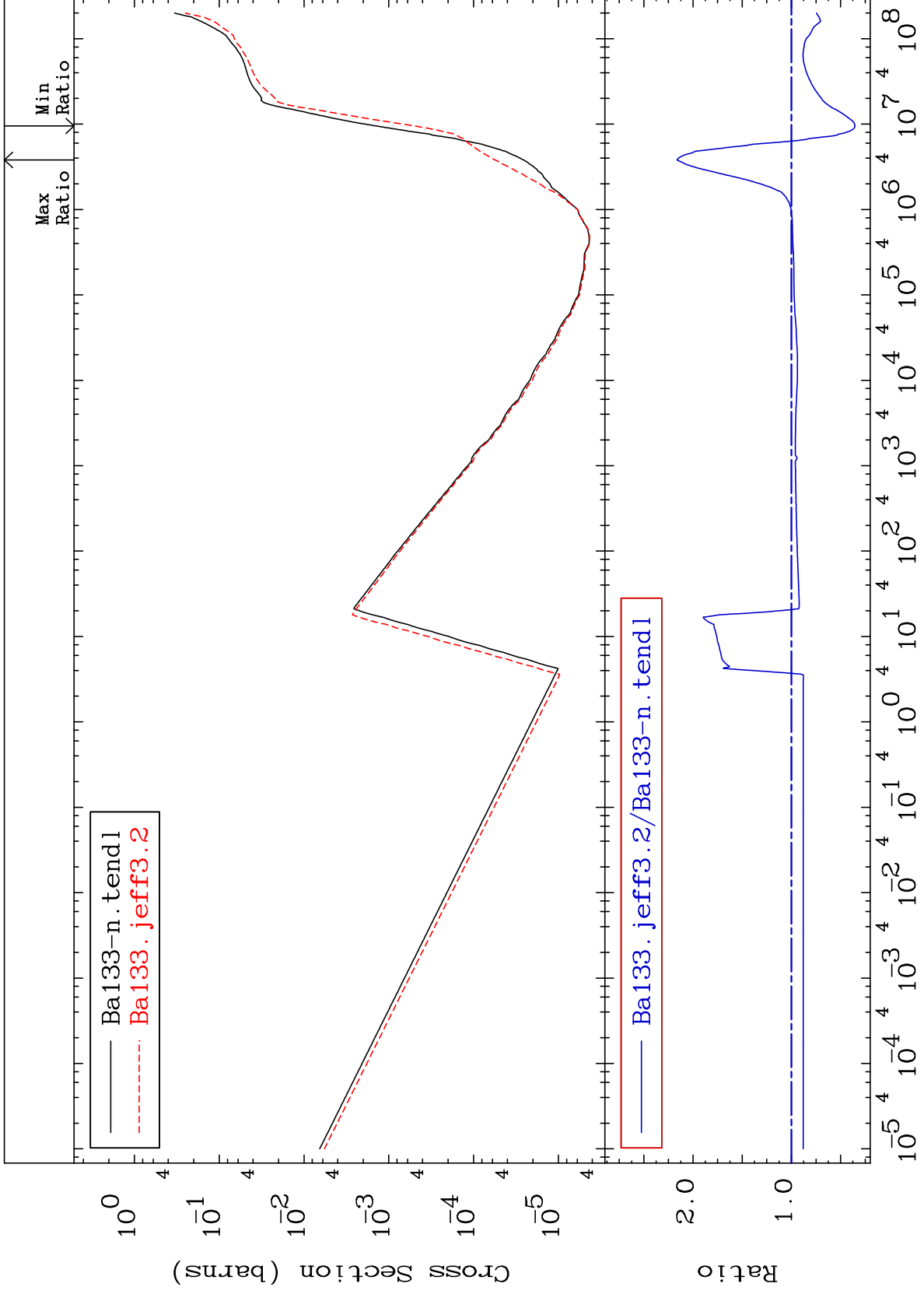
Incident Energy (eV)

56-Ba-133

MAT 5634

He-4 Production
Cross Section

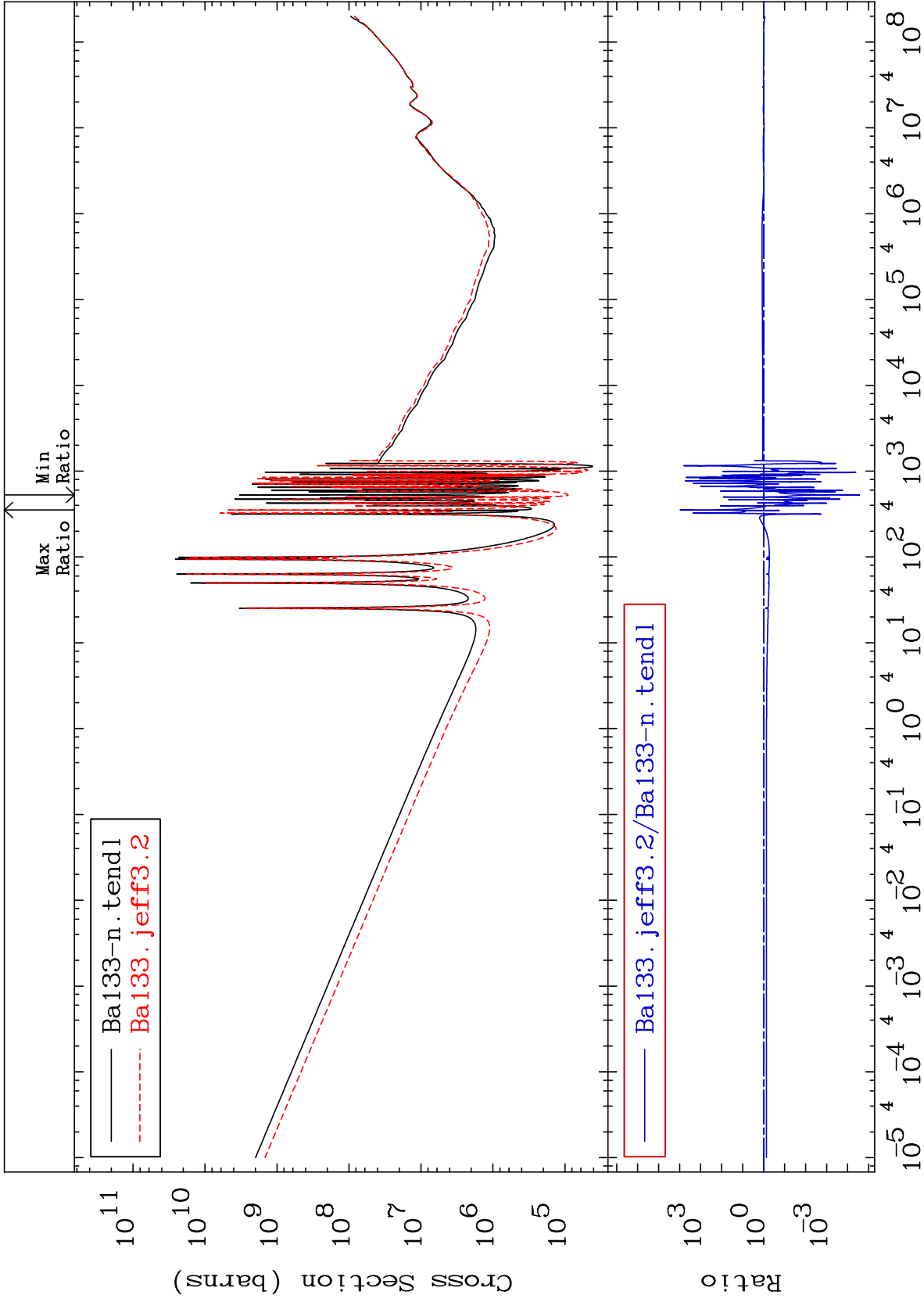
56-Ba-133
-64.76 To 116.4 %



65

Incident Energy (eV)

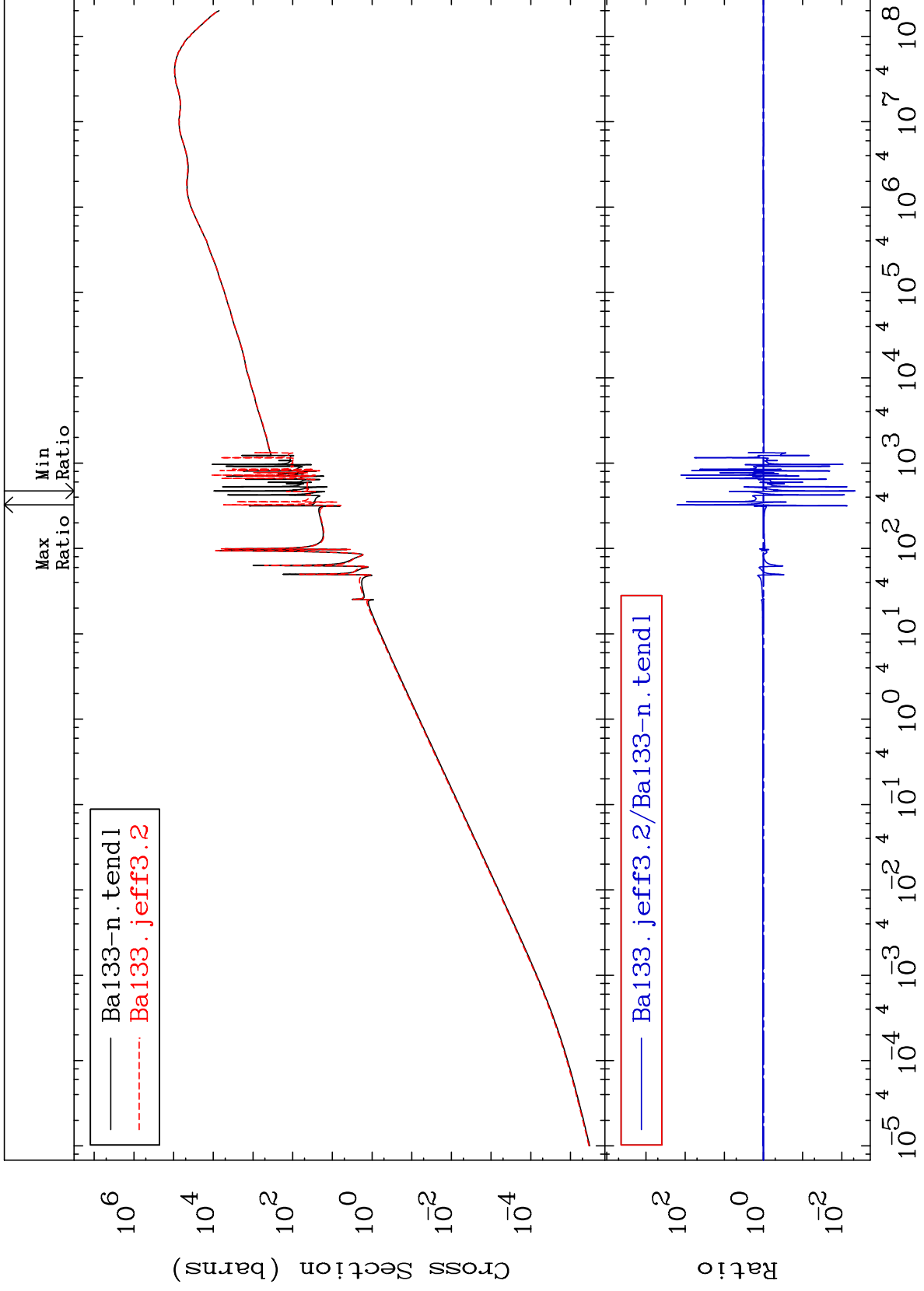
56-Ba-133

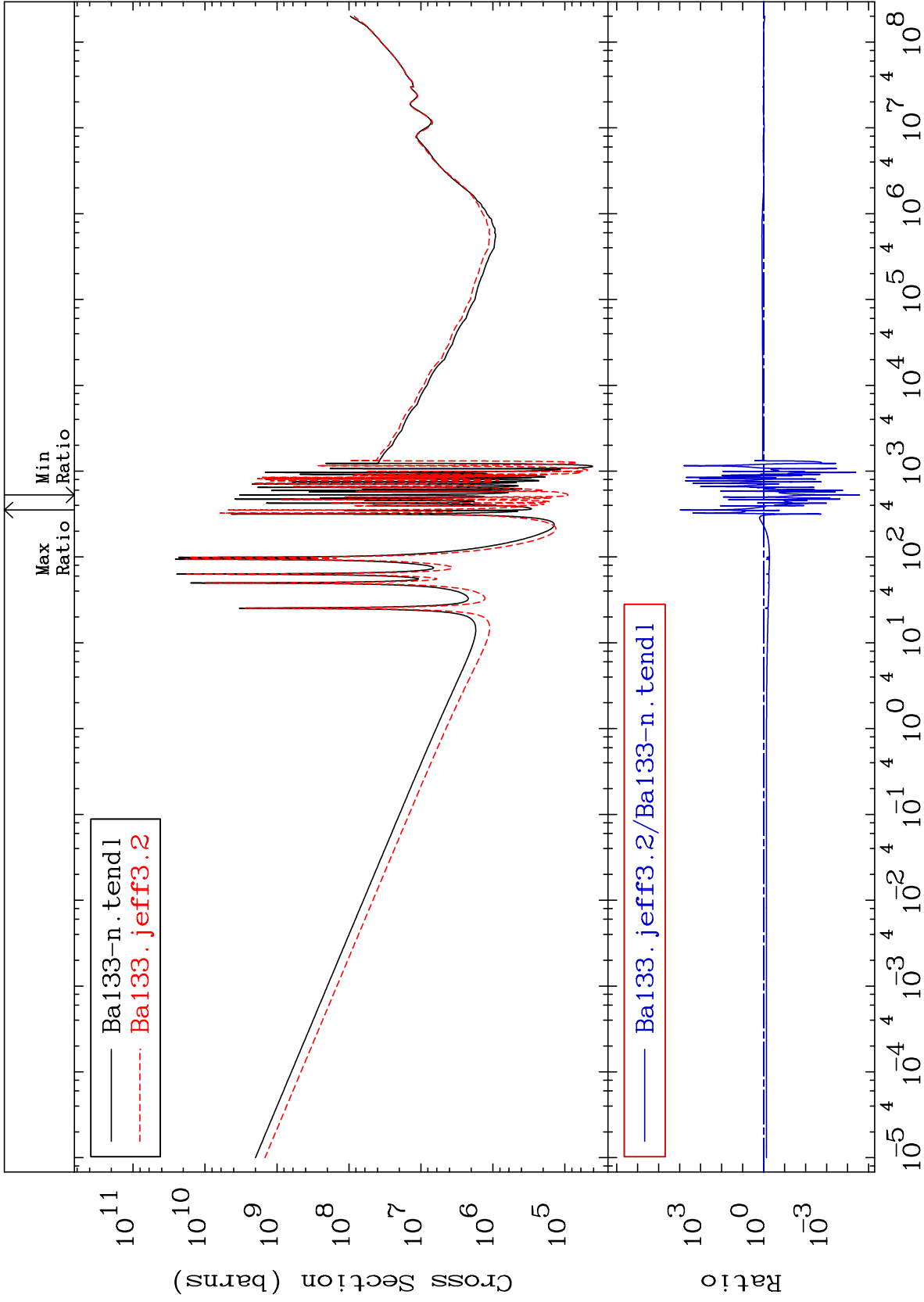


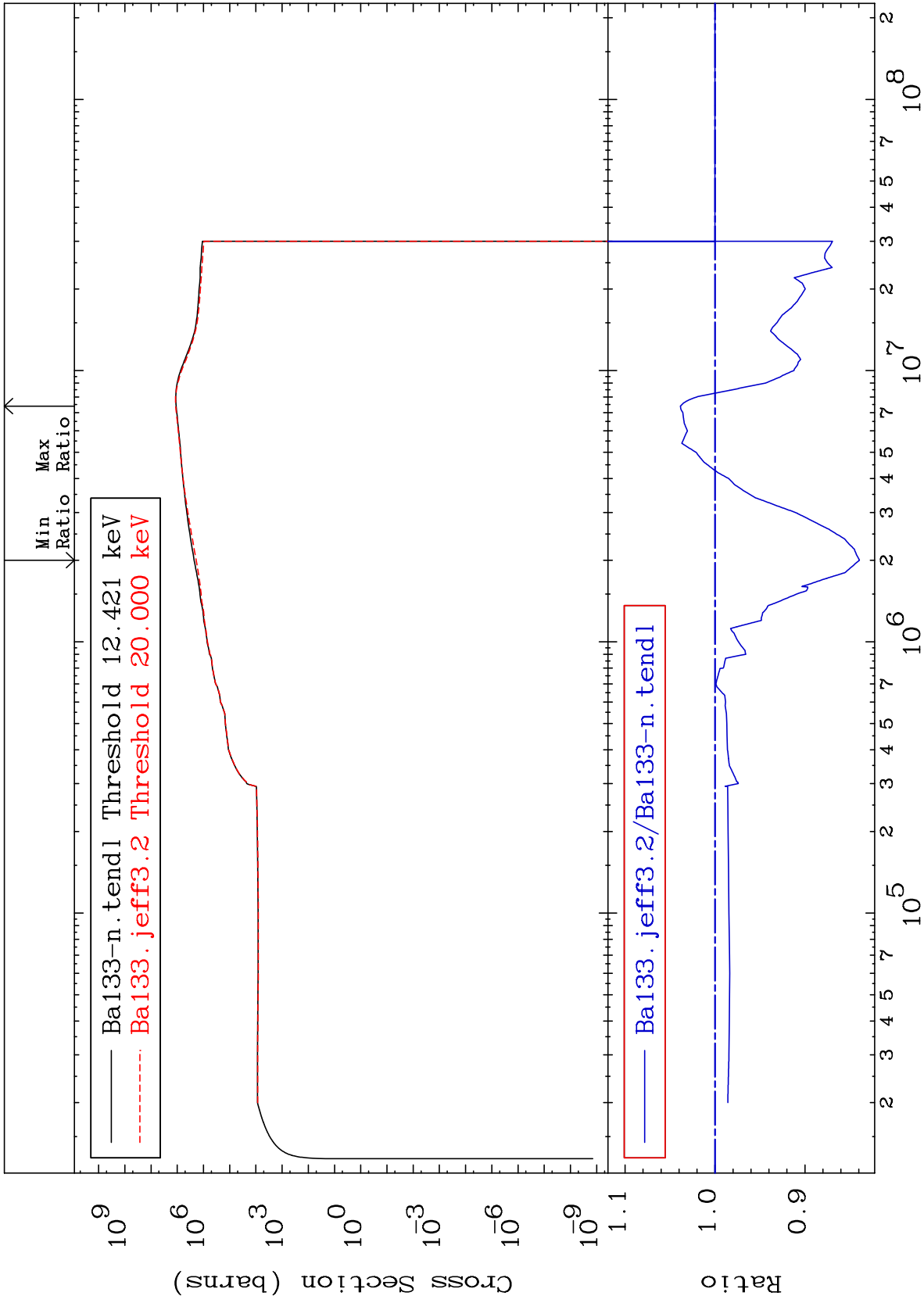
MAT 5634

Kerma elastic
Cross Section

56-Ba-133
-99.54 To 9999. %



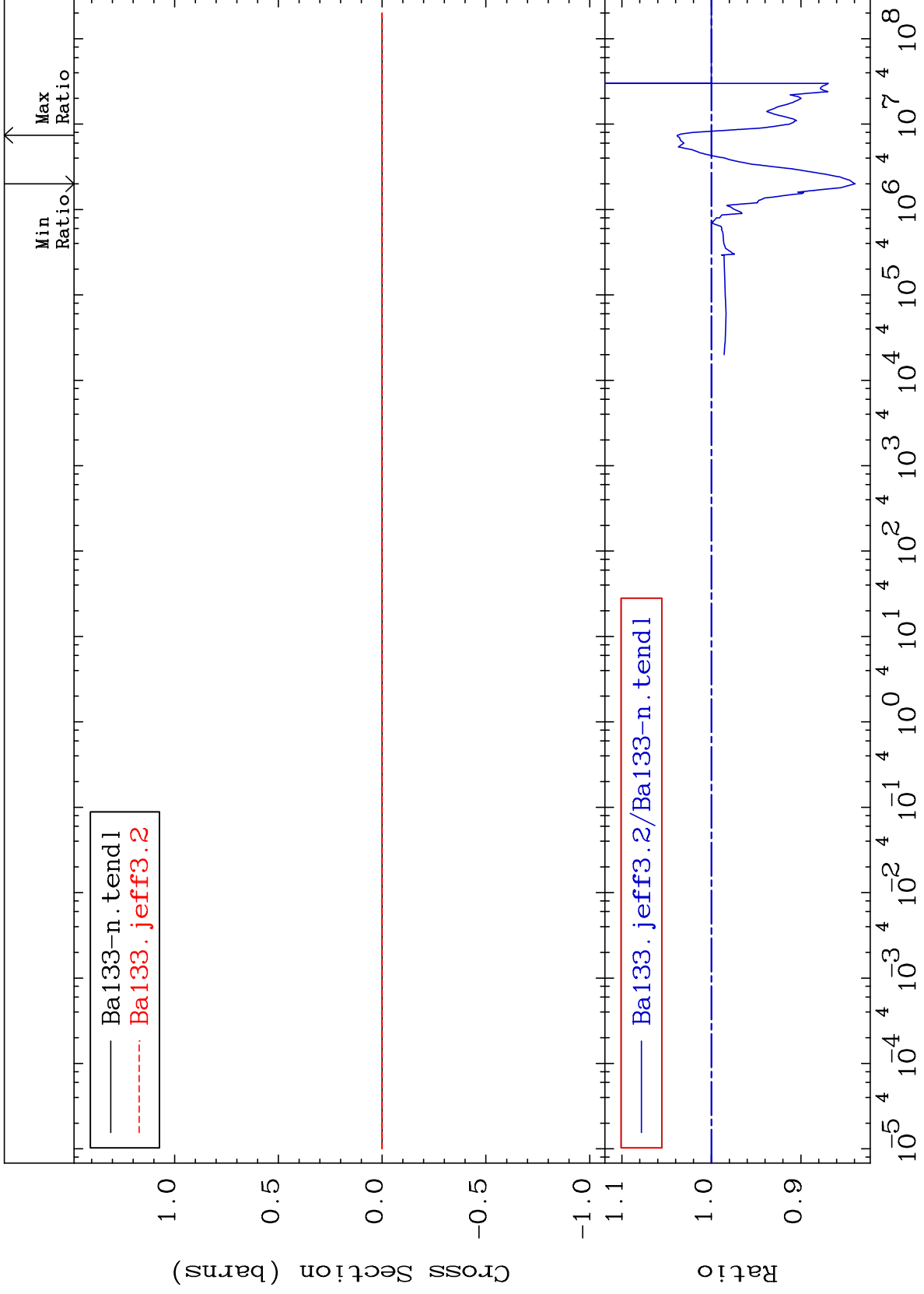




MAT 5634

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

56-Ba-133
-16.06 To 3.851 %



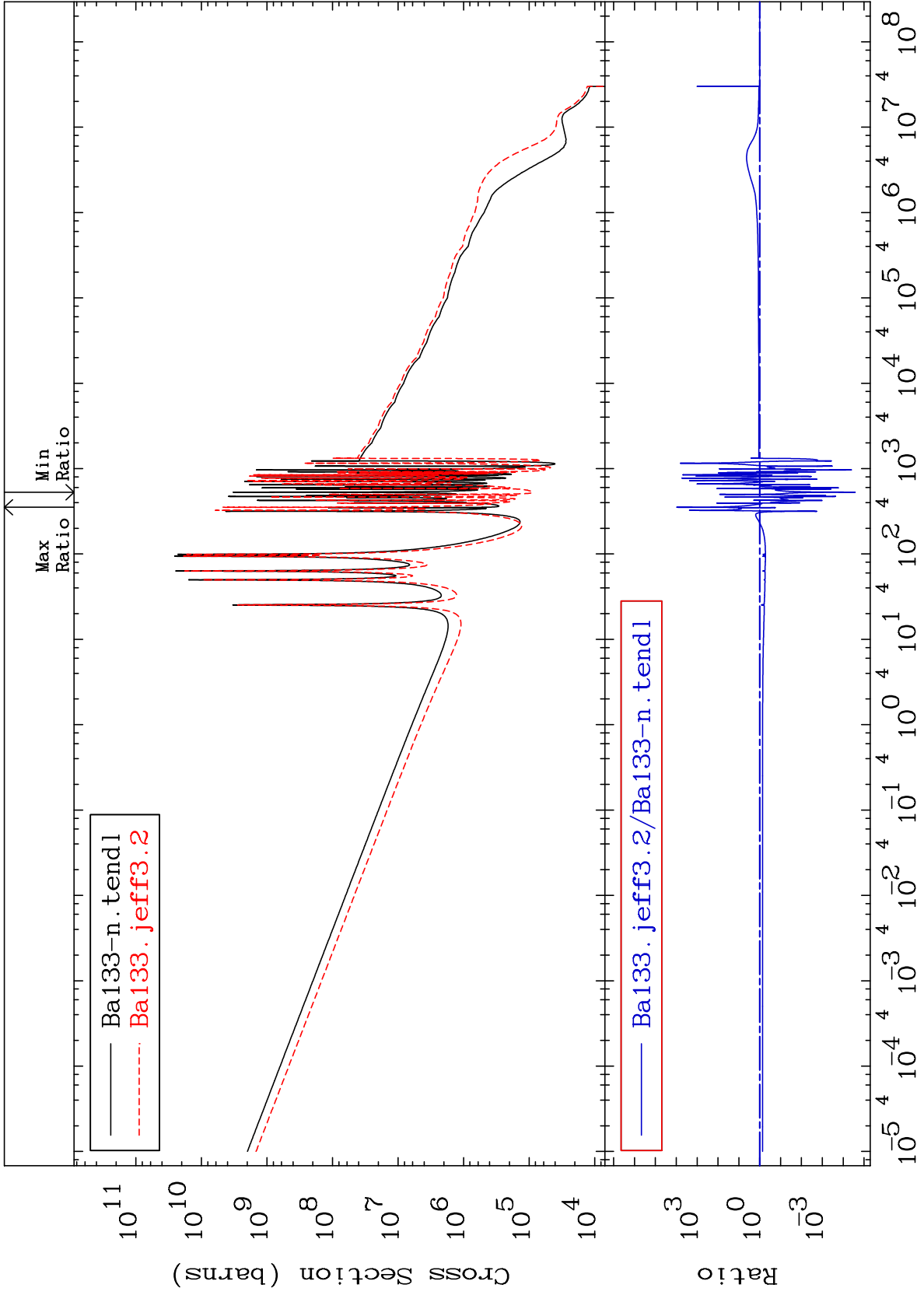
70

56-Ba-133

MAT 5634

Kerma capture (mt102)
Cross Section

56-Ba-133
-100.0 To 9999. %



71

Incident Energy (eV)

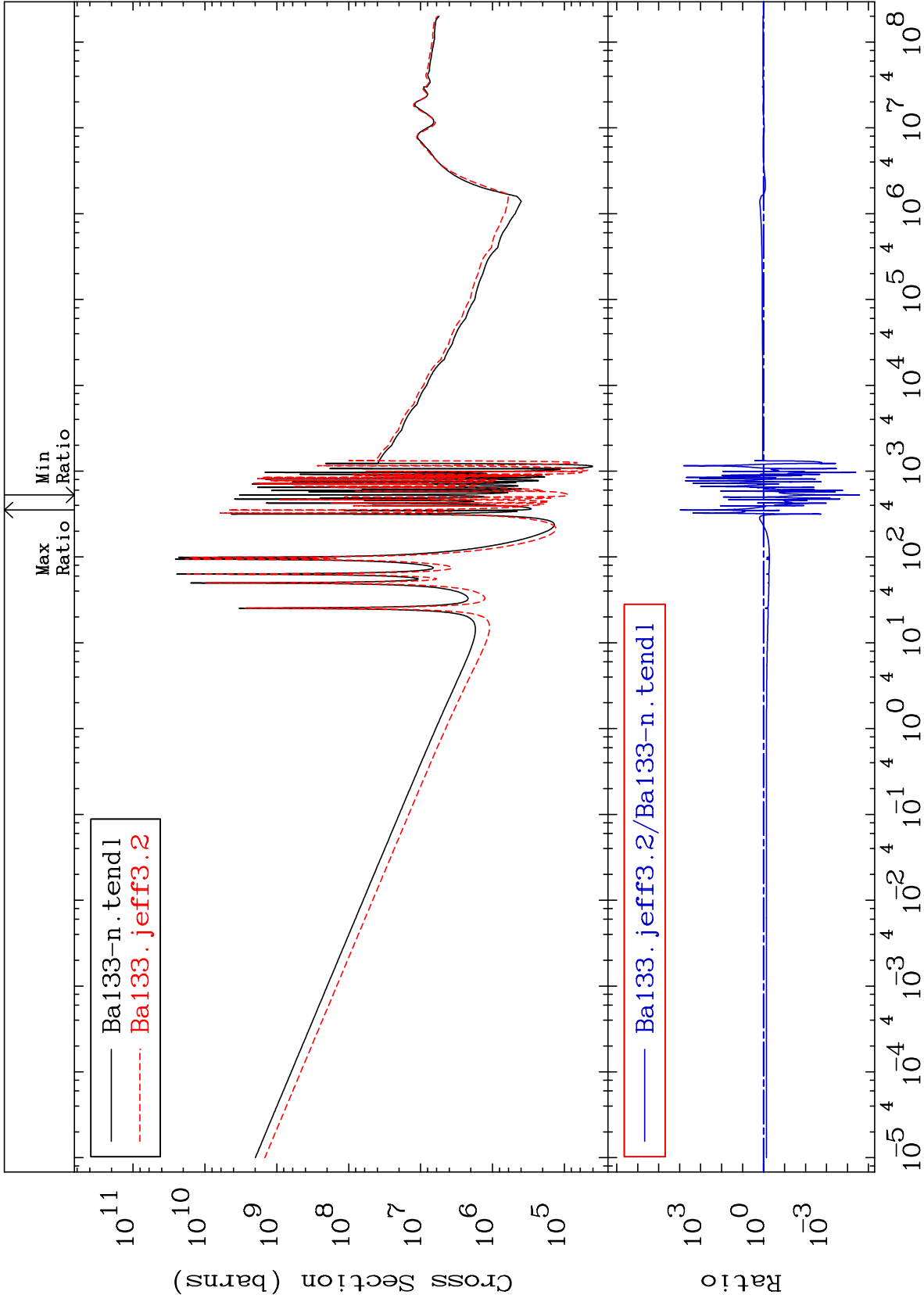
56-Ba-133

MAT 5634

Total photon (eV-barns)
Cross Section

56-Ba-133

-100.0 To 9999. %



72

Incident Energy (eV)

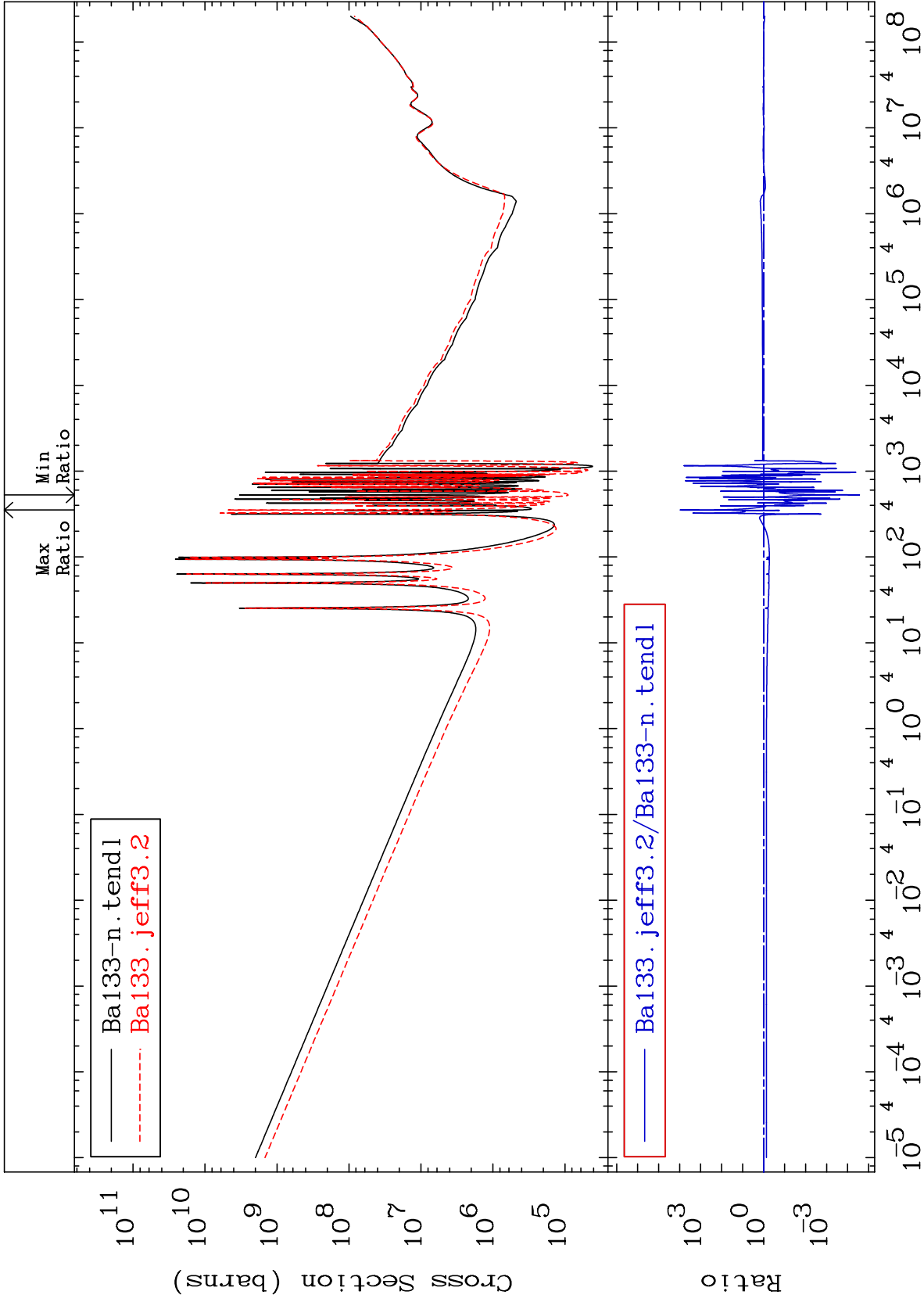
56-Ba-133

MAT 5634

Total kinematic kerma (high limit)

56-Ba-133

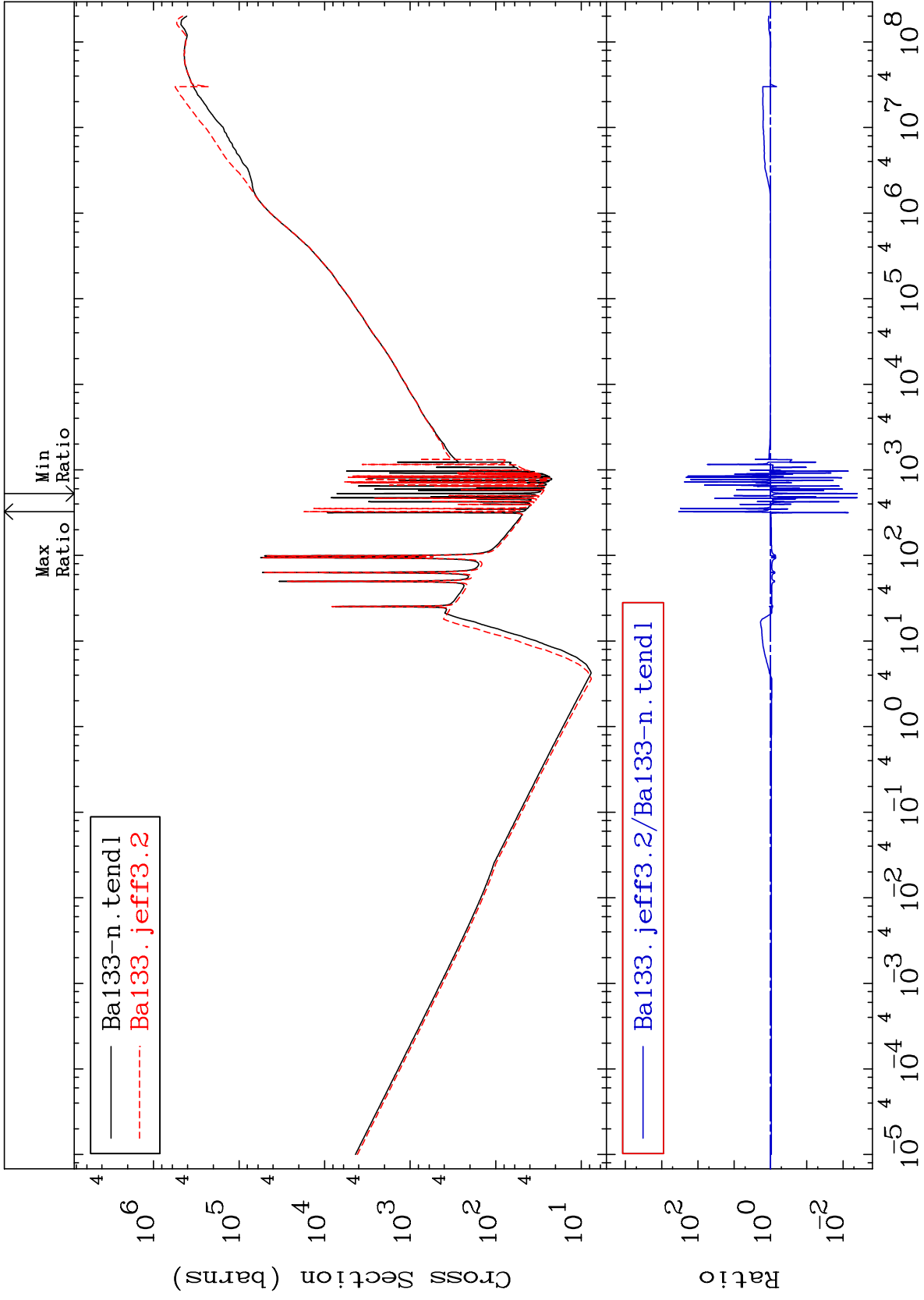
-100.0 To 9999. %



73

Incident Energy (eV)

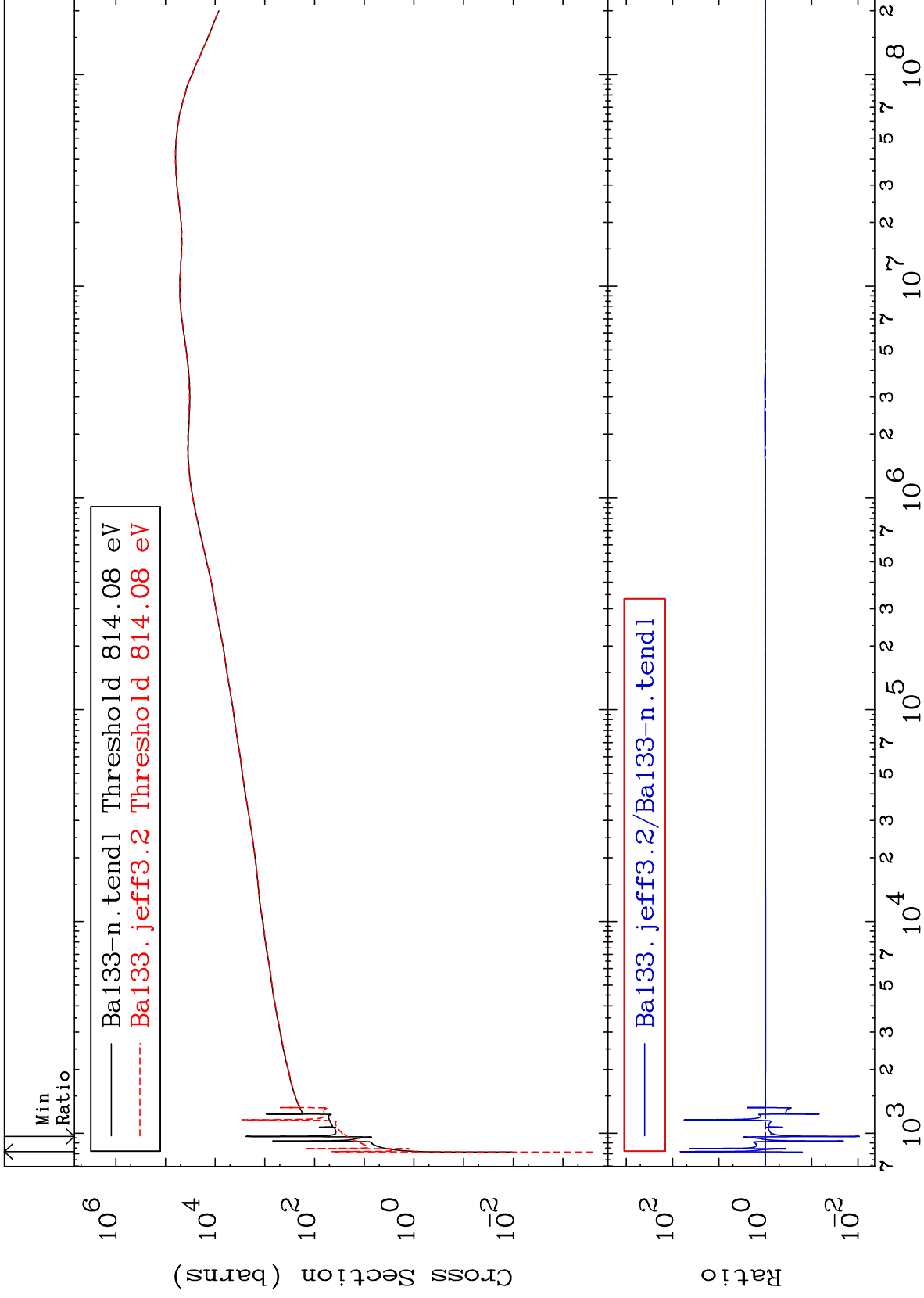
56-Ba-133



MAT 5634

Dpa elastic (mt2)
Cross Section

56-Ba-133
-99.07 To 6716. %



75

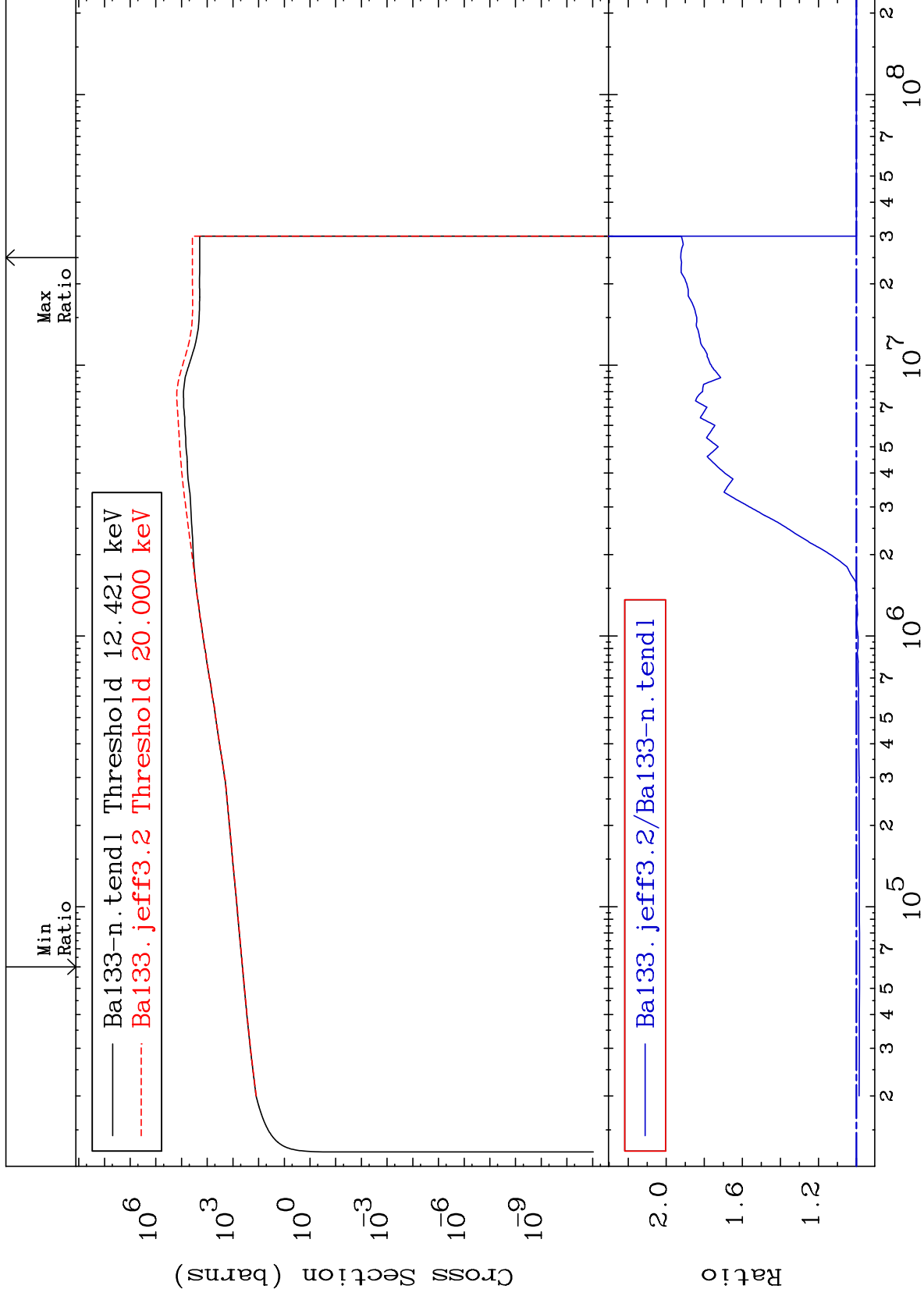
Incident Energy (eV)

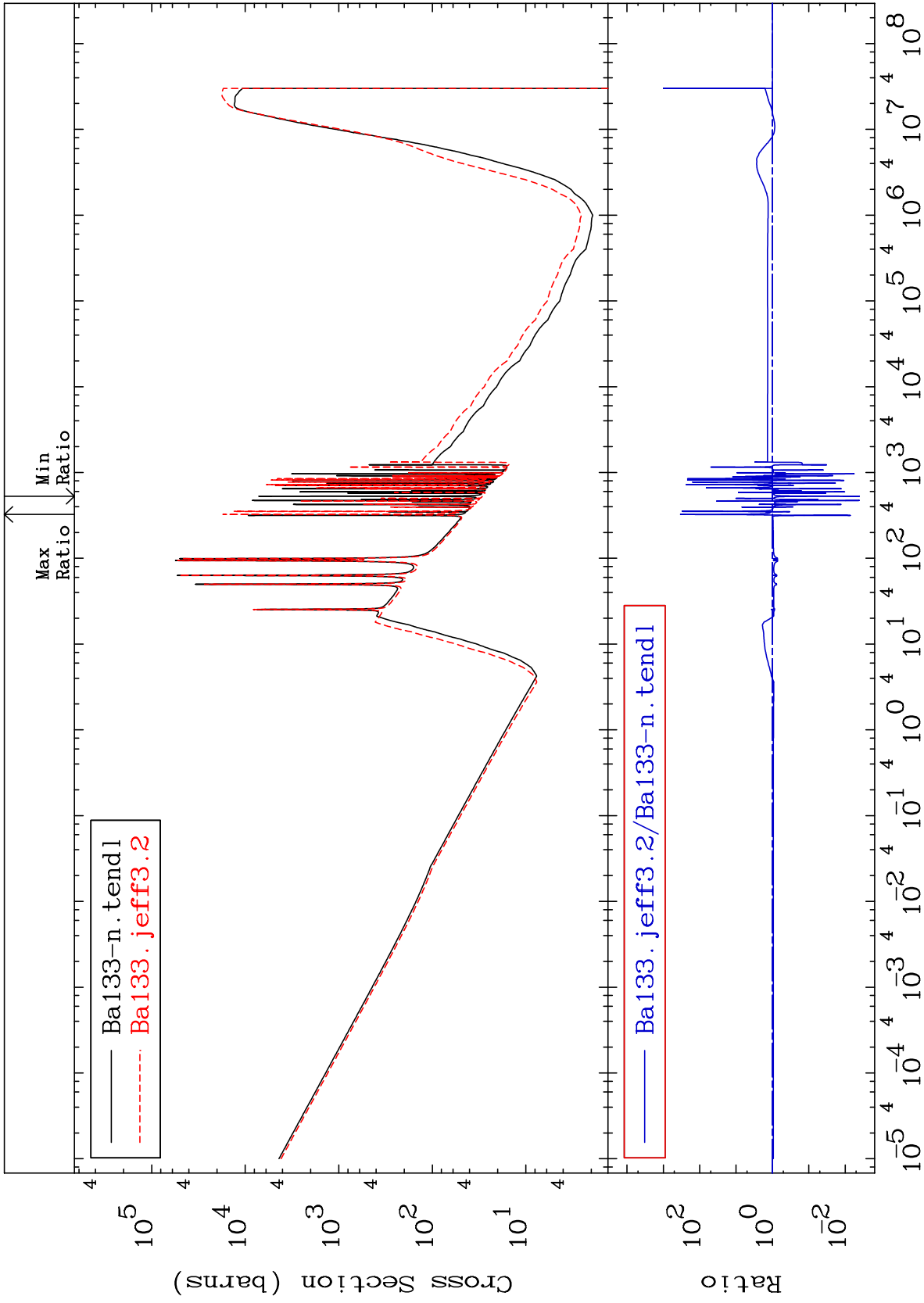
56-Ba-133

MAT 5634

Dpa inelastic (mt51-91)
Cross Section

56-Ba-133
-1.606 To 92.35 %





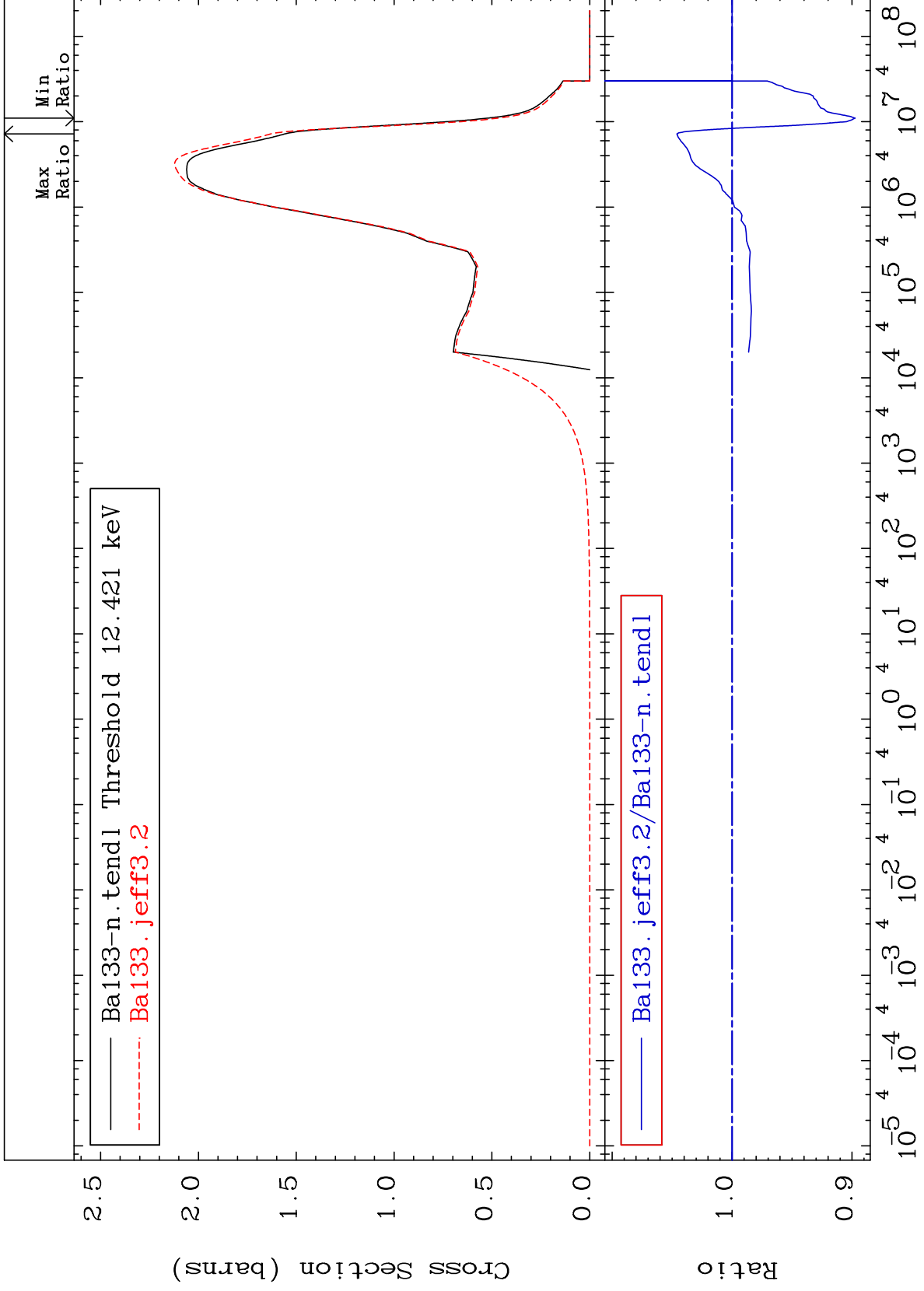
MAT 5634

Inelastic:56-Ba-133g

56-Ba-133

Radionuclide Production Cross Section

-10.25 To 4.597 %



78

Incident Energy (eV)

56-Ba-133

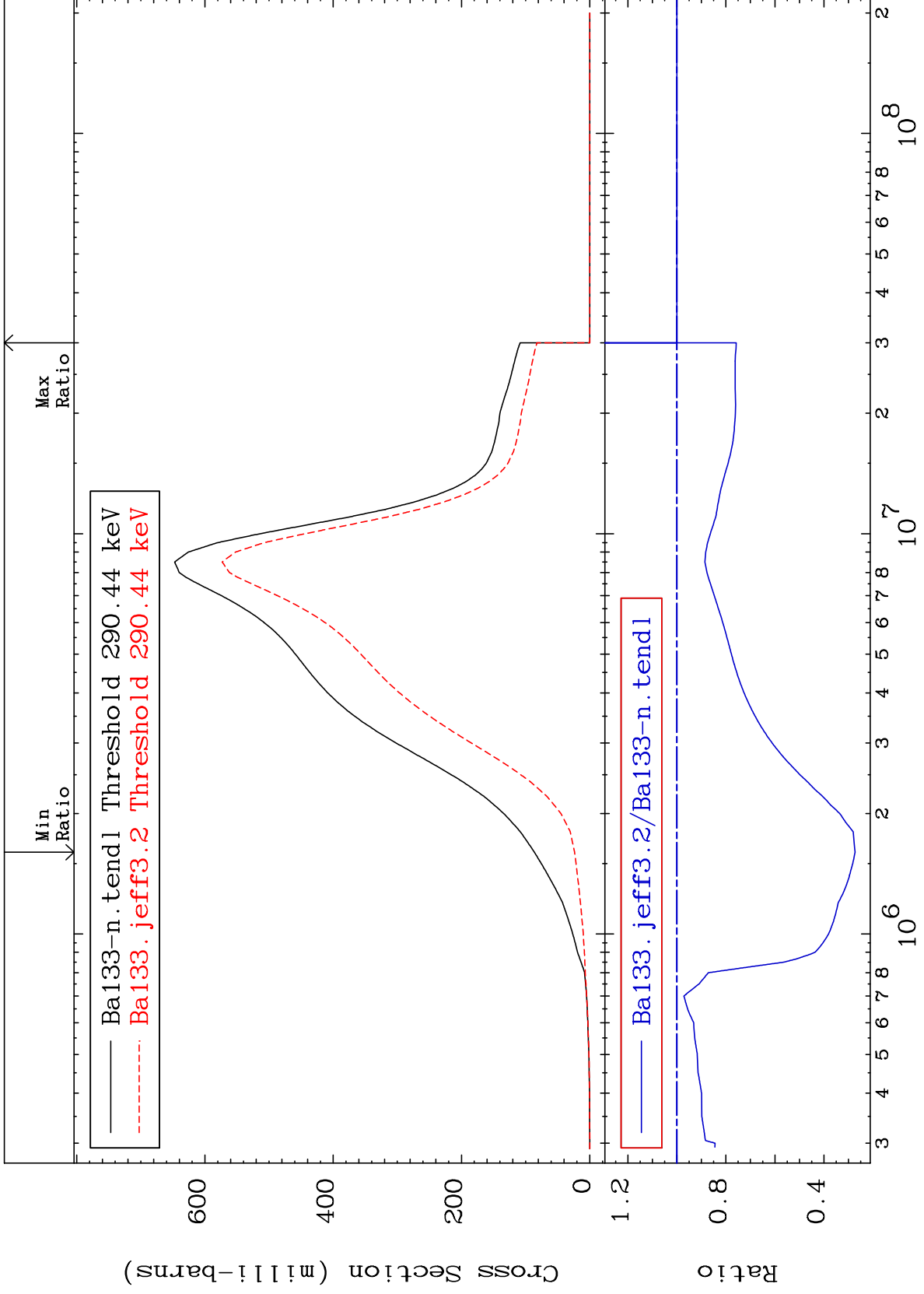
MAT 5634

Inelastic:56-Ba-133m2

56-Ba-133

Radionuclide Production Cross Section

-72.72 To 0.000 %



79

Incident Energy (eV)

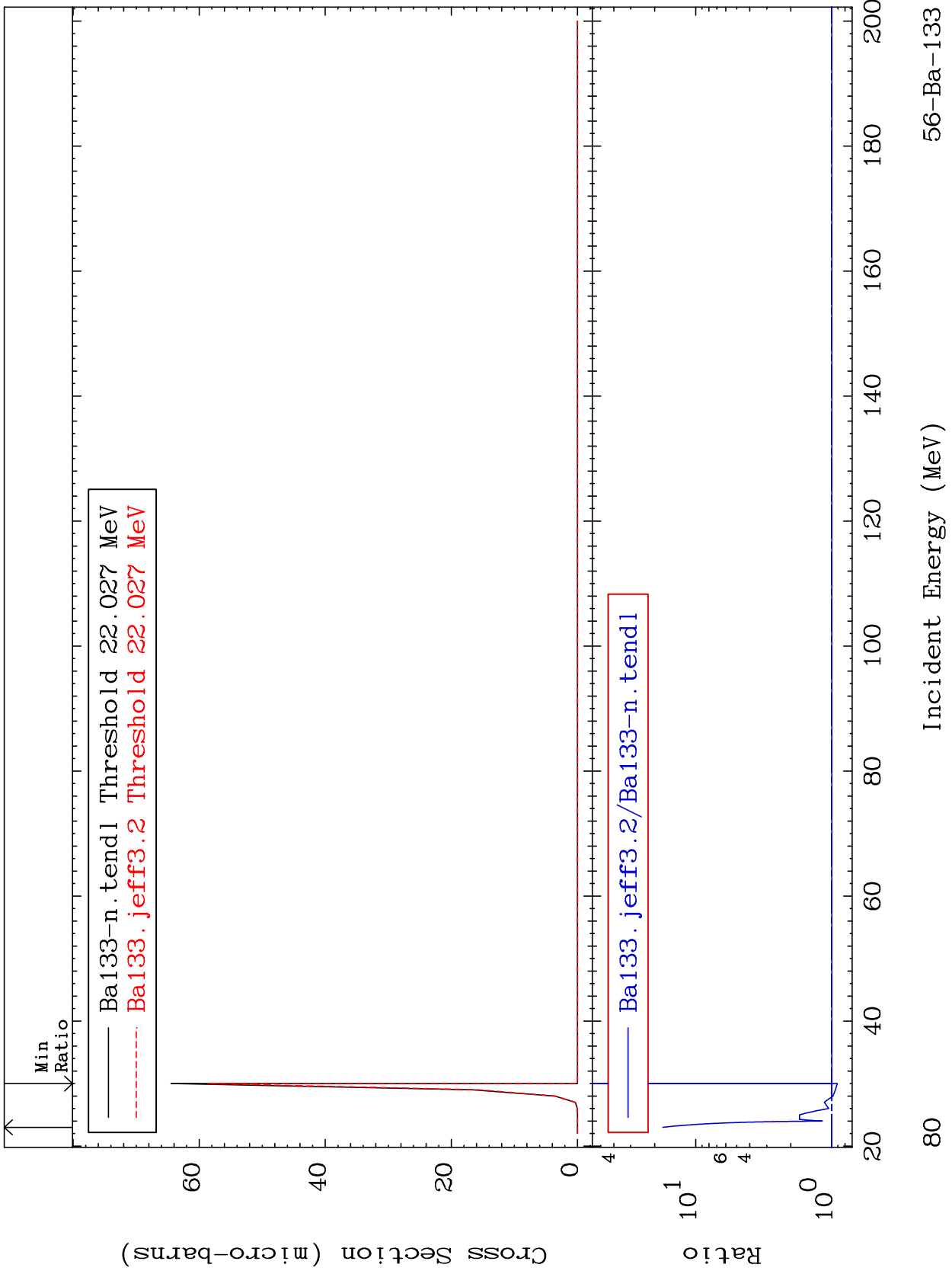
56-Ba-133

MAT 5634

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

56-Ba-133

Radionuclide Production Cross Section -8.955 To 1643. %

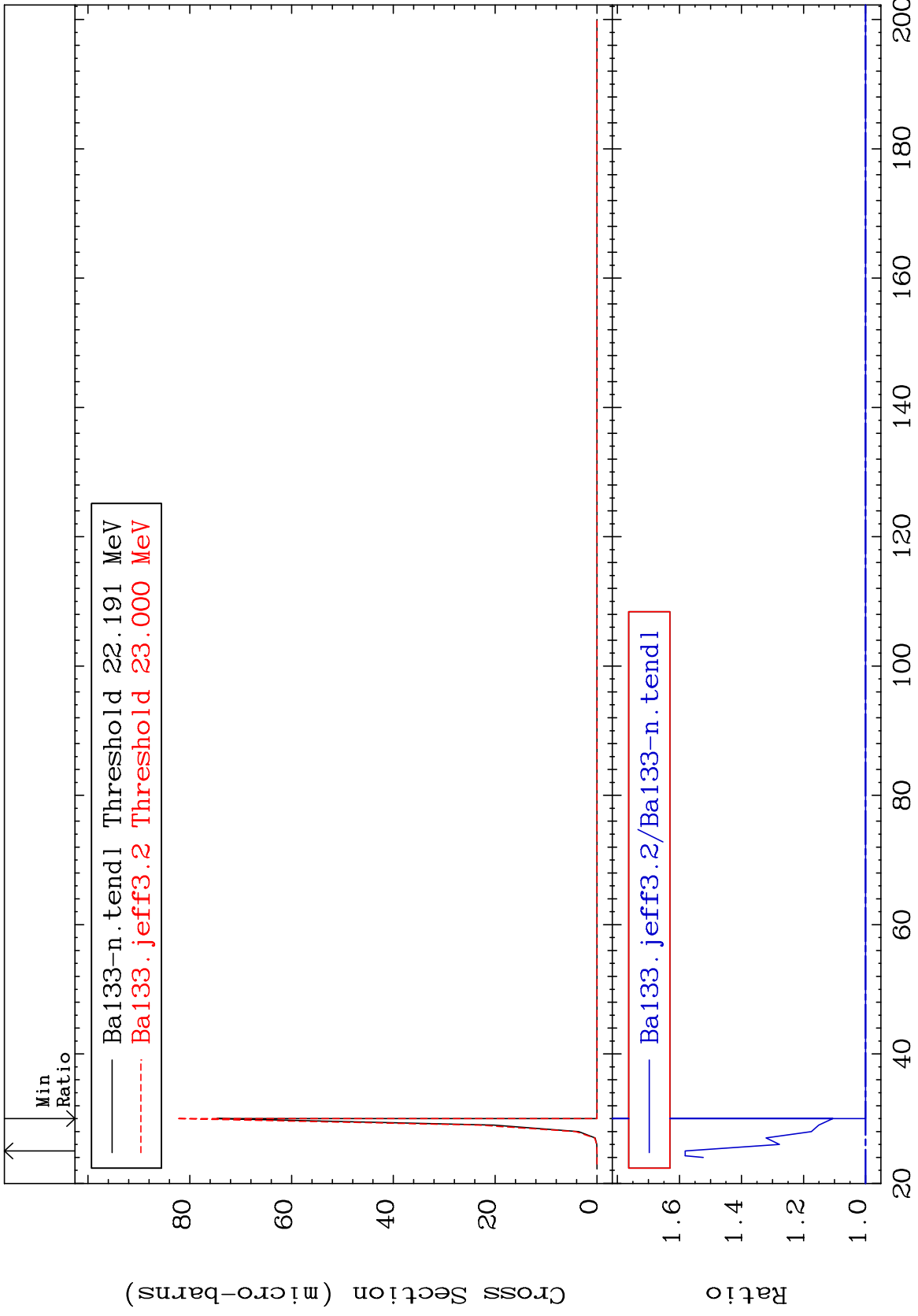


MAT 5634

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

56-Ba-133

Radionuclide Production Cross Section 0.000 To 58.14 %



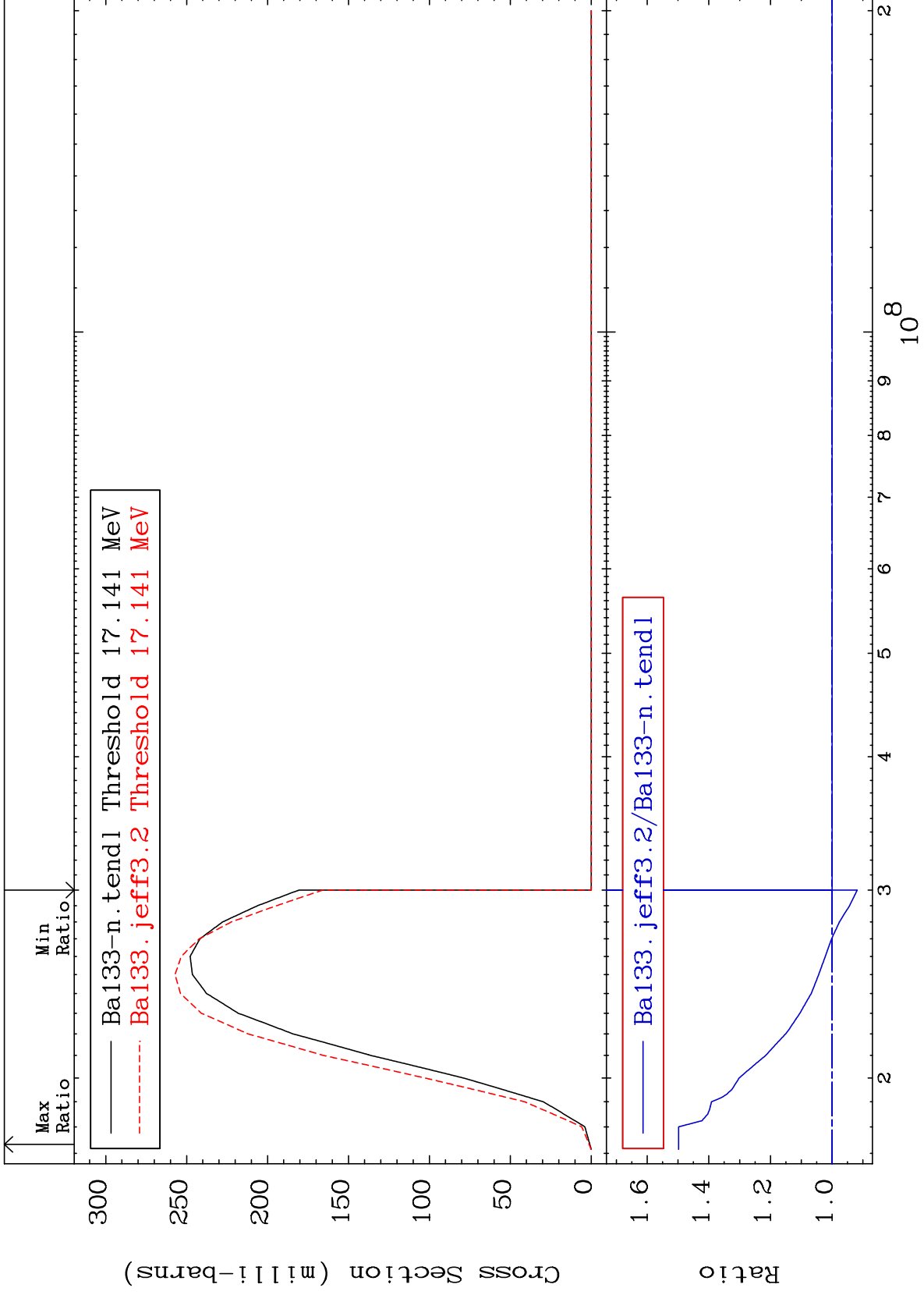
MAT 5634

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

56-Ba-133

Radionuclide Production Cross Section

-8.152 To 49.79 %



82

Incident Energy (eV)

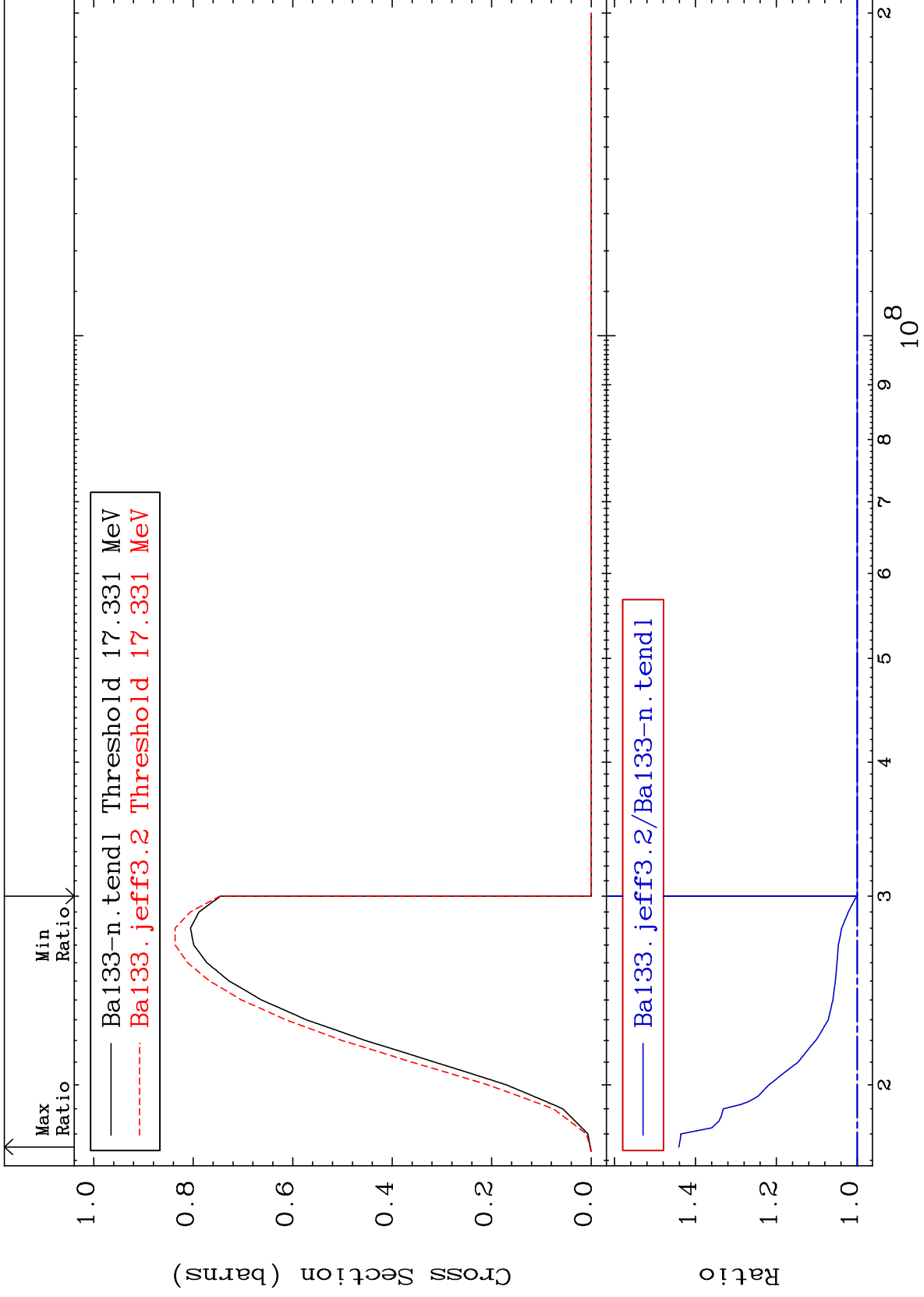
56-Ba-133

MAT 5634

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

56-Ba-133

Radionuclide Production Cross Section 0.000 To 44.17 %

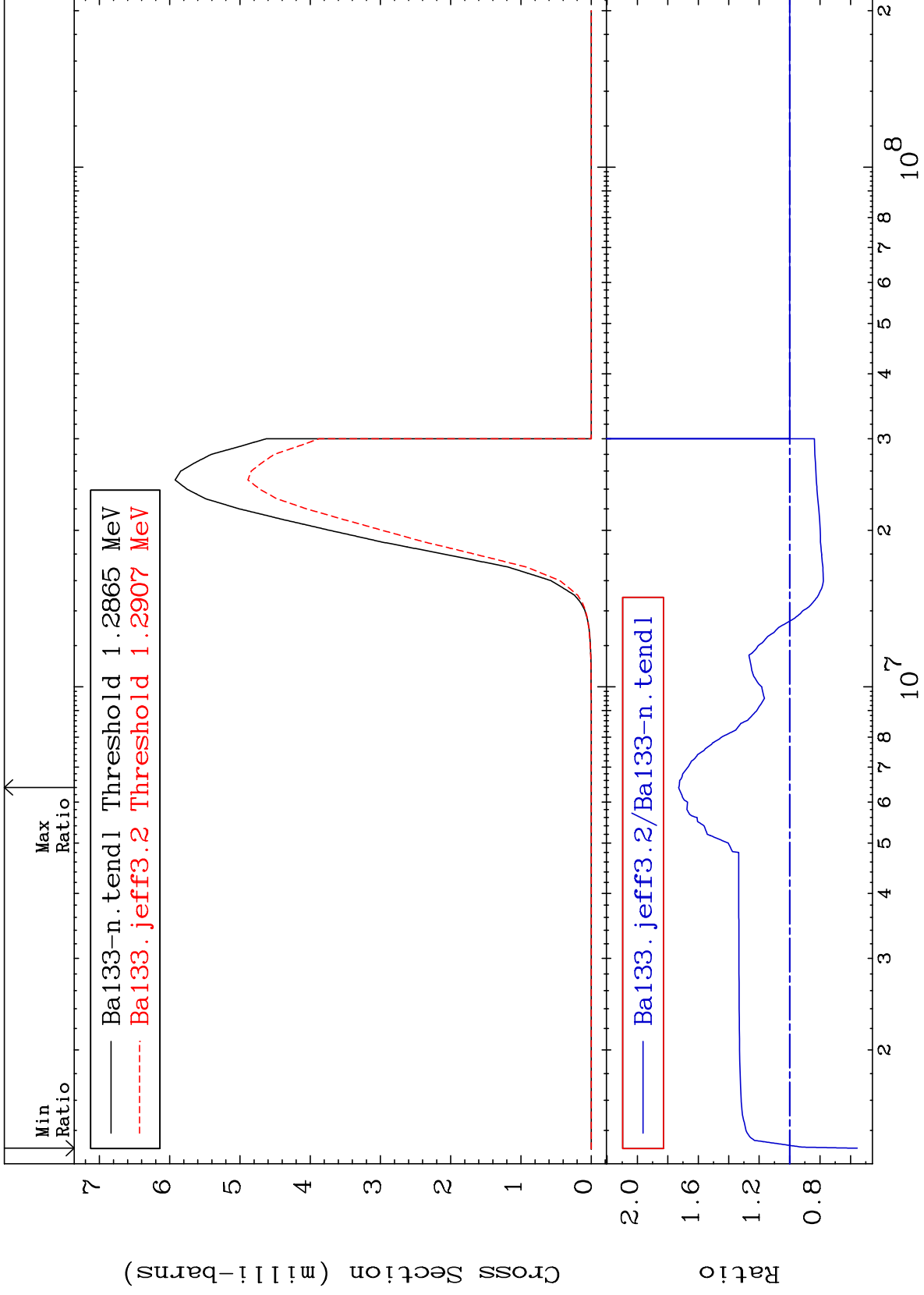


MAT 5634

(n, n') α :54-Xe-129g

56-Ba-133

Radionuclide Production Cross Section -44.42 To 72.91 %

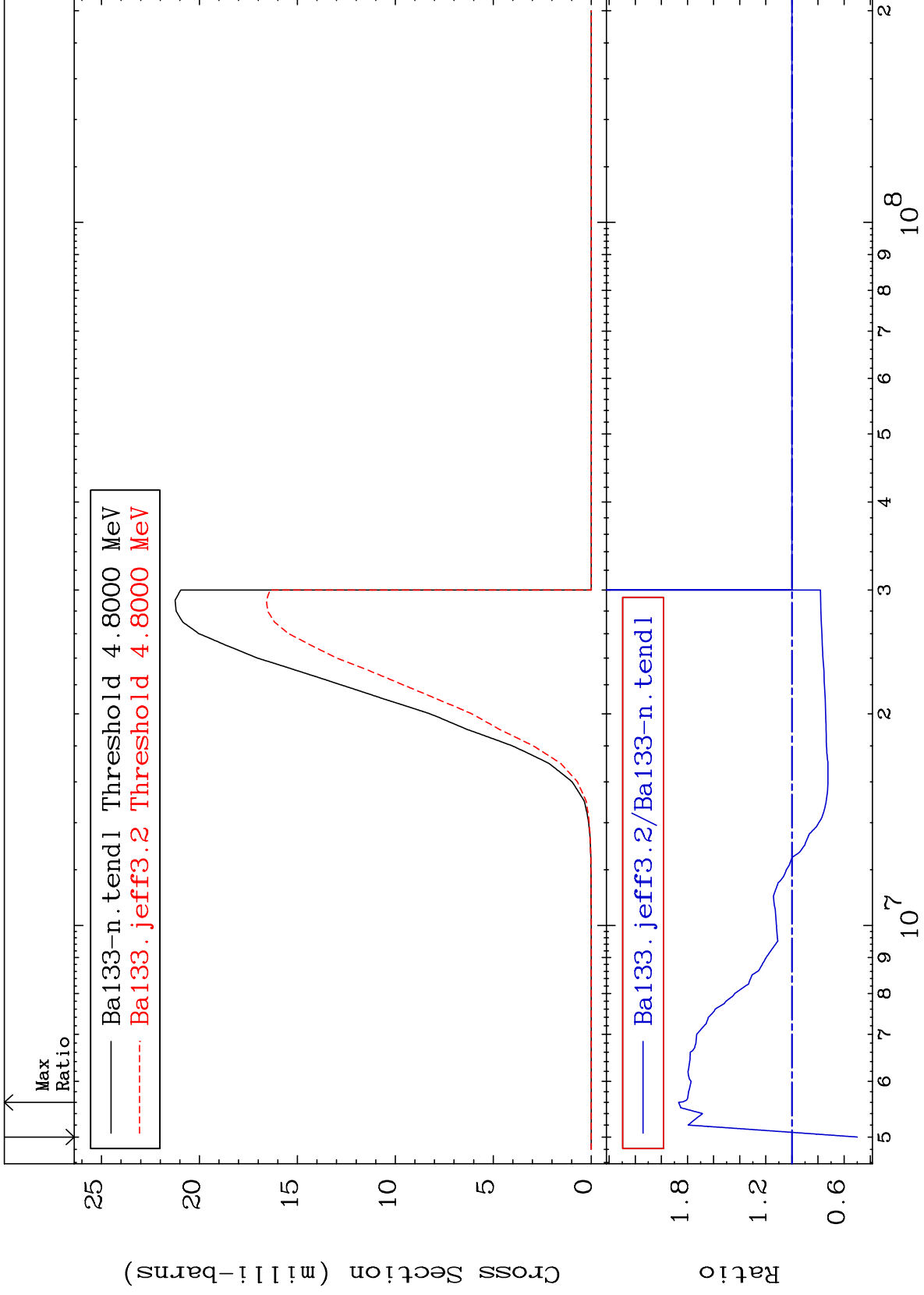


MAT 5634

(n, n') α :54-Xe-129m2

56-Ba-133

Radionuclide Production Cross Section -50.03 To 86.77 %



85

Incident Energy (eV)

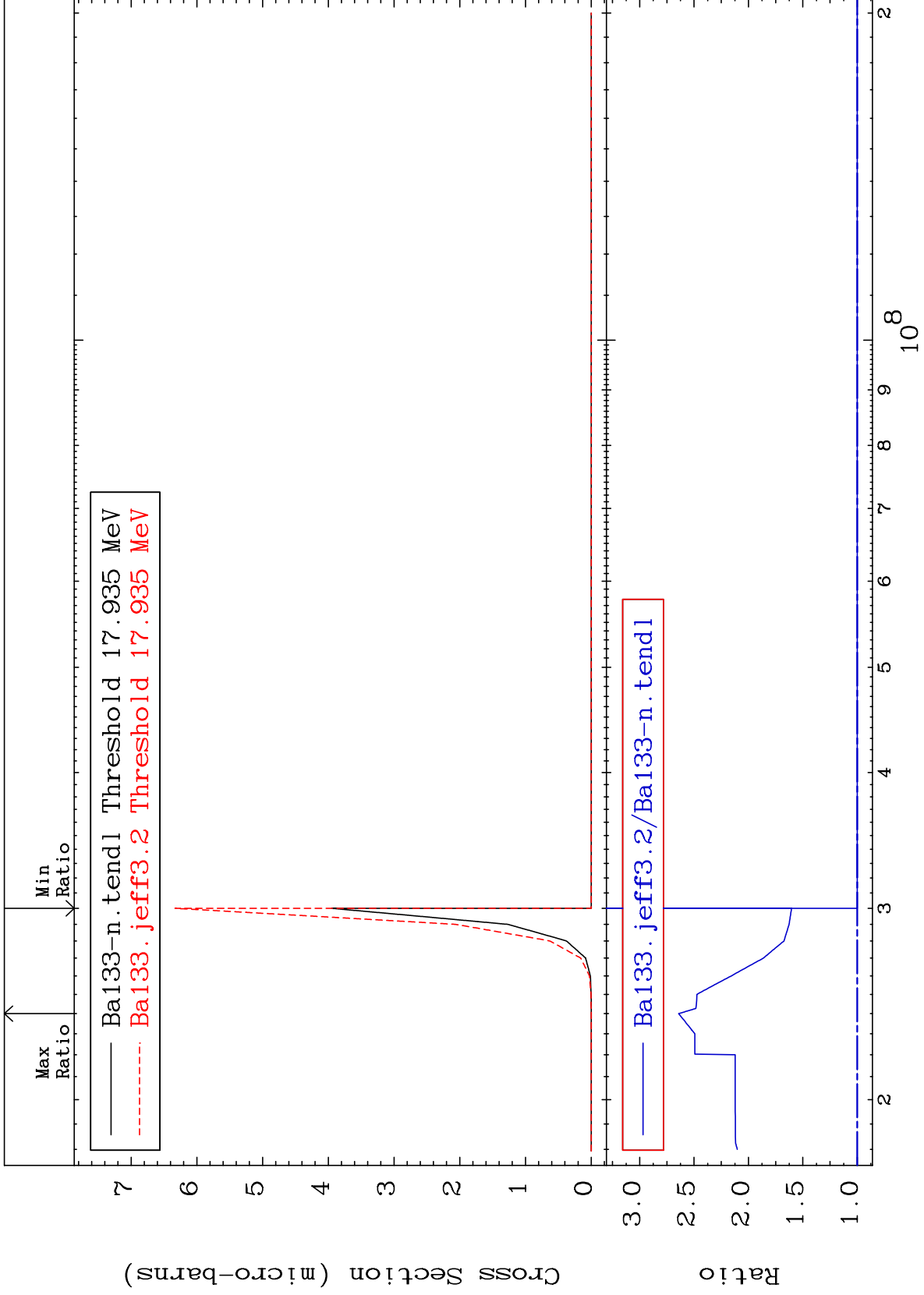
56-Ba-133

MAT 5634

(n,3n) α :54-Xe-127g

56-Ba-133

Radionuclide Production Cross Section 0.000 To 164.2 %

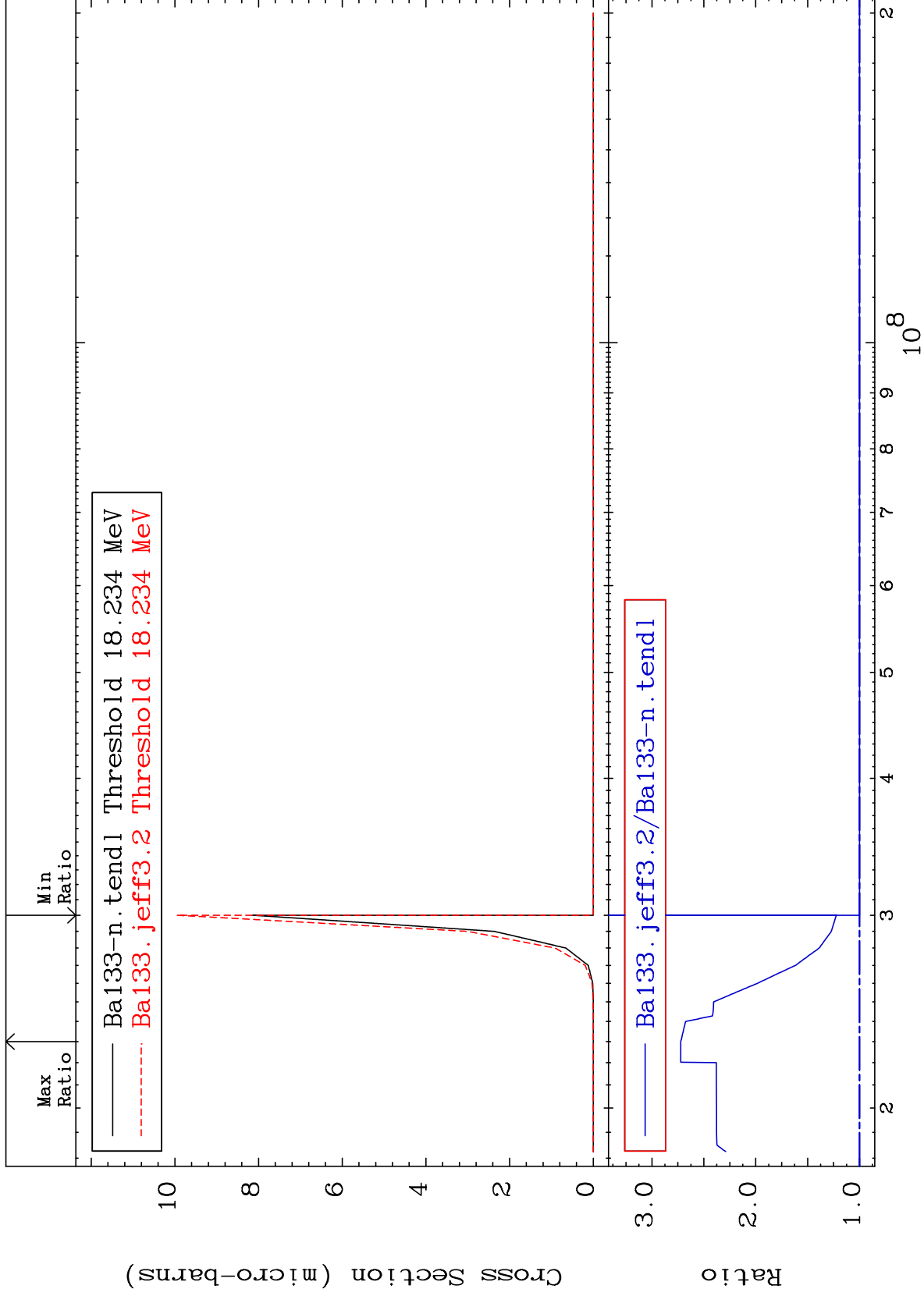


MAT 5634

(n,3n) α :54-Xe-127m2

56-Ba-133

Radionuclide Production Cross Section 0.000 To 172.2 %



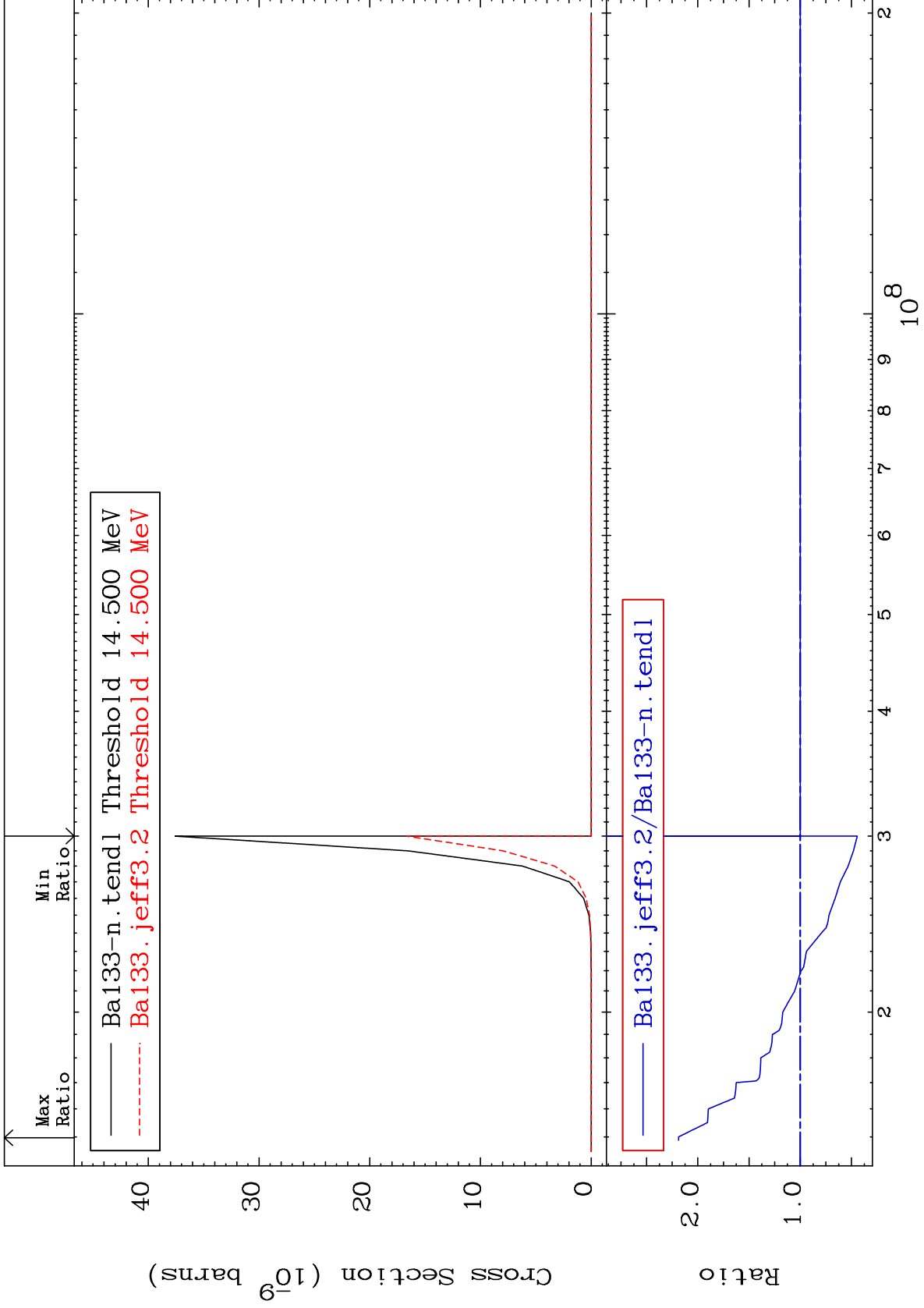
87

Incident Energy (eV)

56-Ba-133

MAT 5634

(n, n') 2α:52-Te-125g 56-Ba-133
Radionuclide Production Cross Section -55.65 To 118.7 %



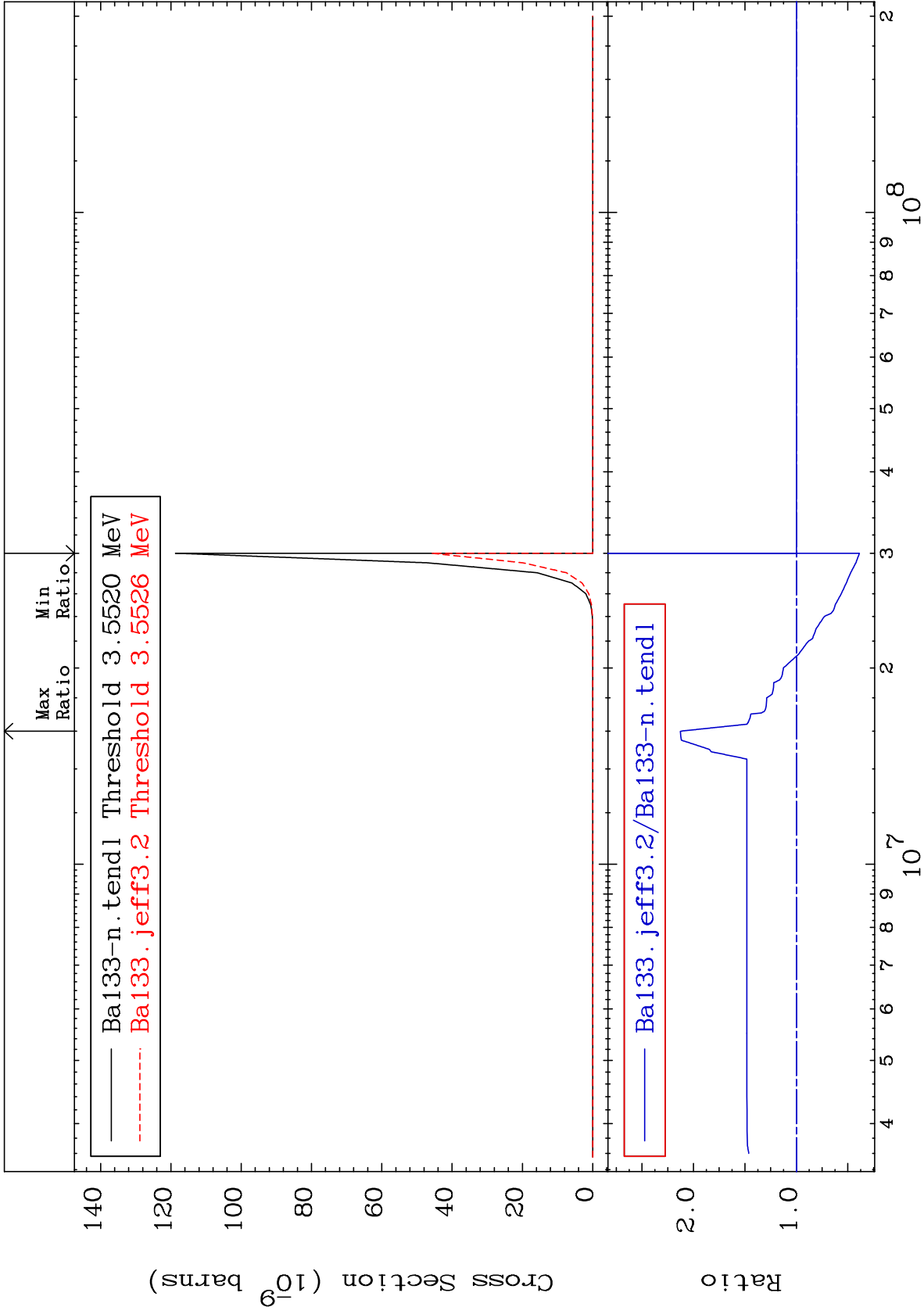
88

Incident Energy (eV)

56-Ba-133

MAT 5634

(n, n') 2α:52-Te-125m2 56-Ba-133
Radionuclide Production Cross Section -61.29 To 112.7 %

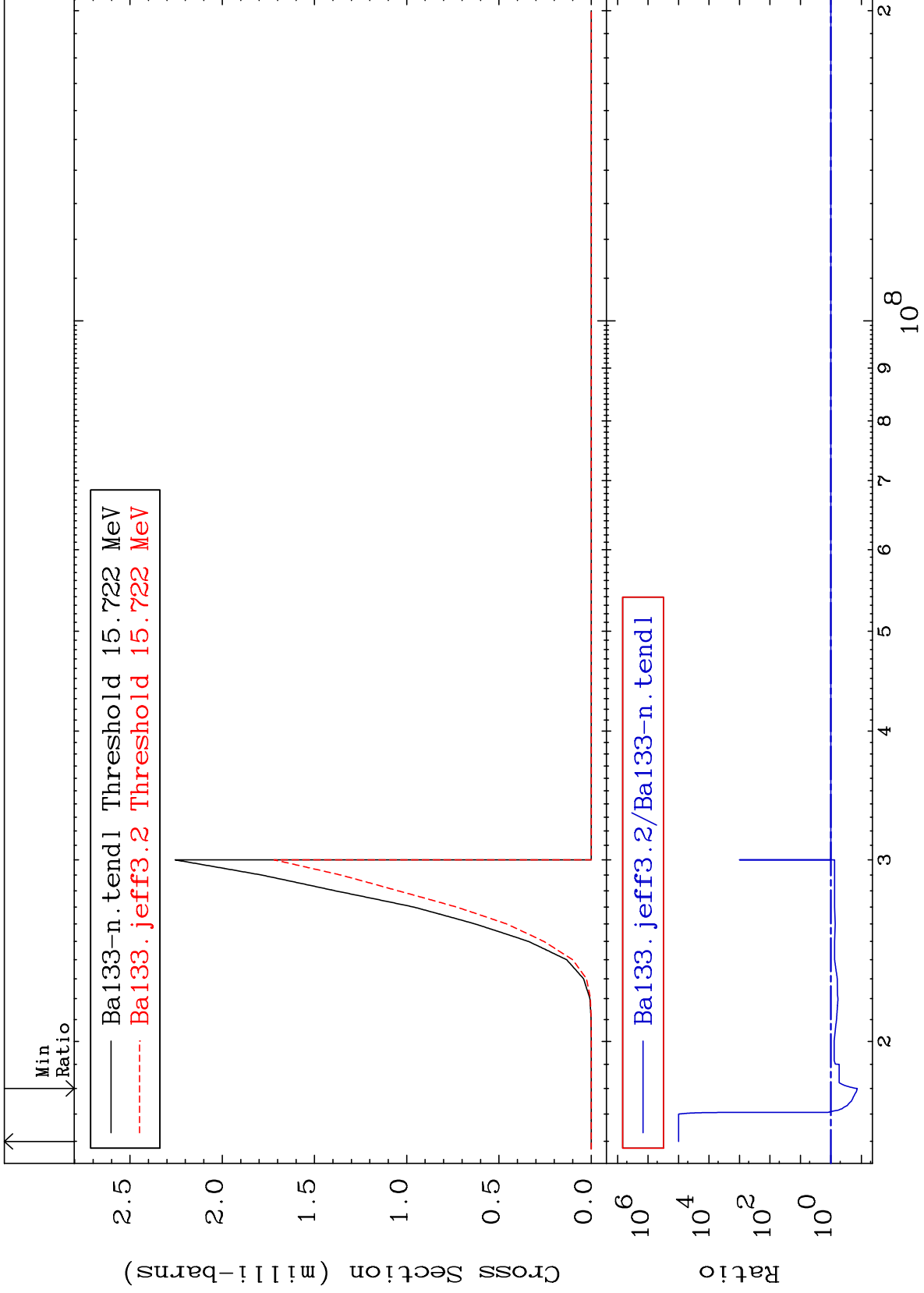


MAT 5634

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

56-Ba-133

Radionuclide Production Cross Section -86.31 To 9999. %



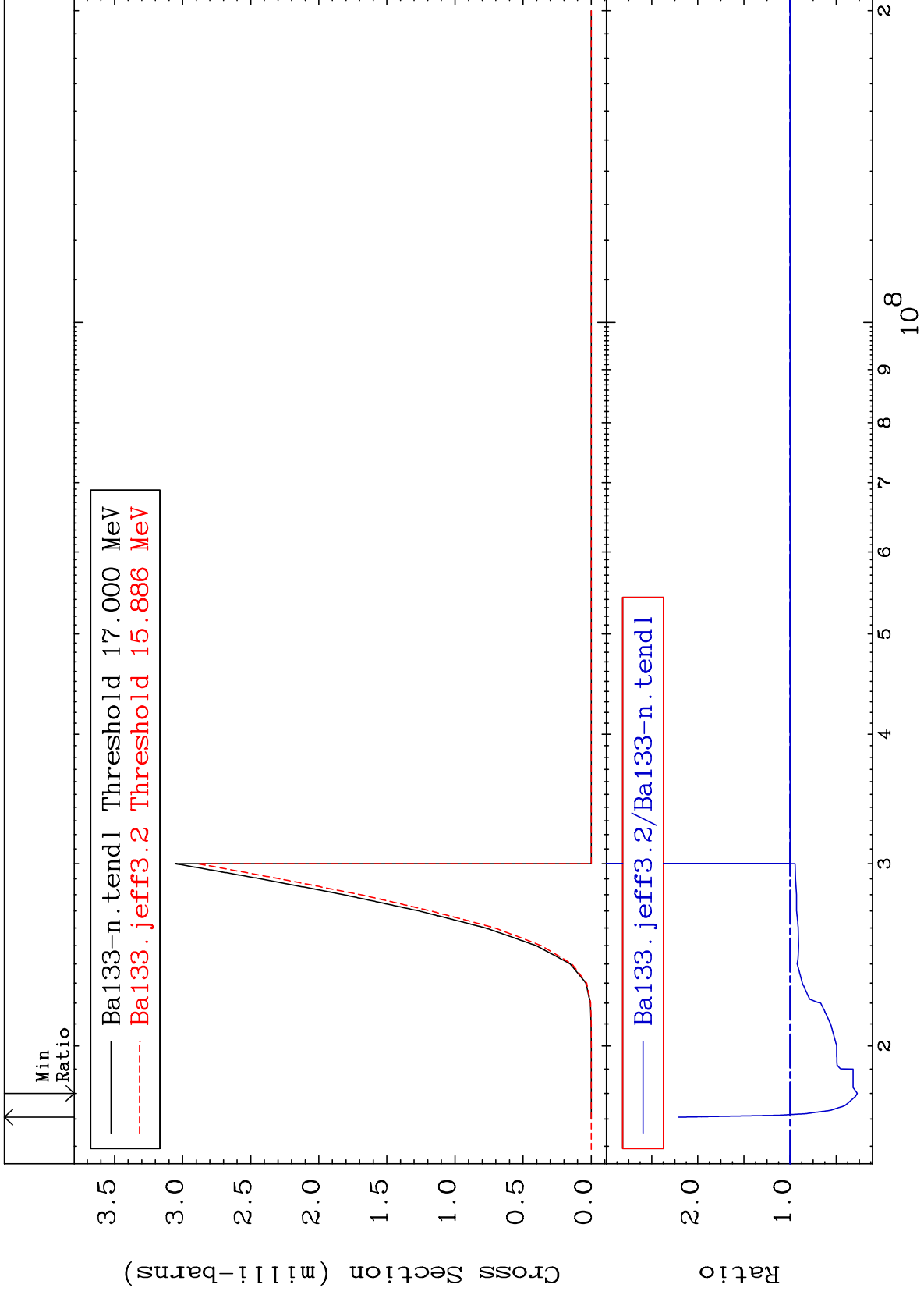
MAT 5634

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

56-Ba-133

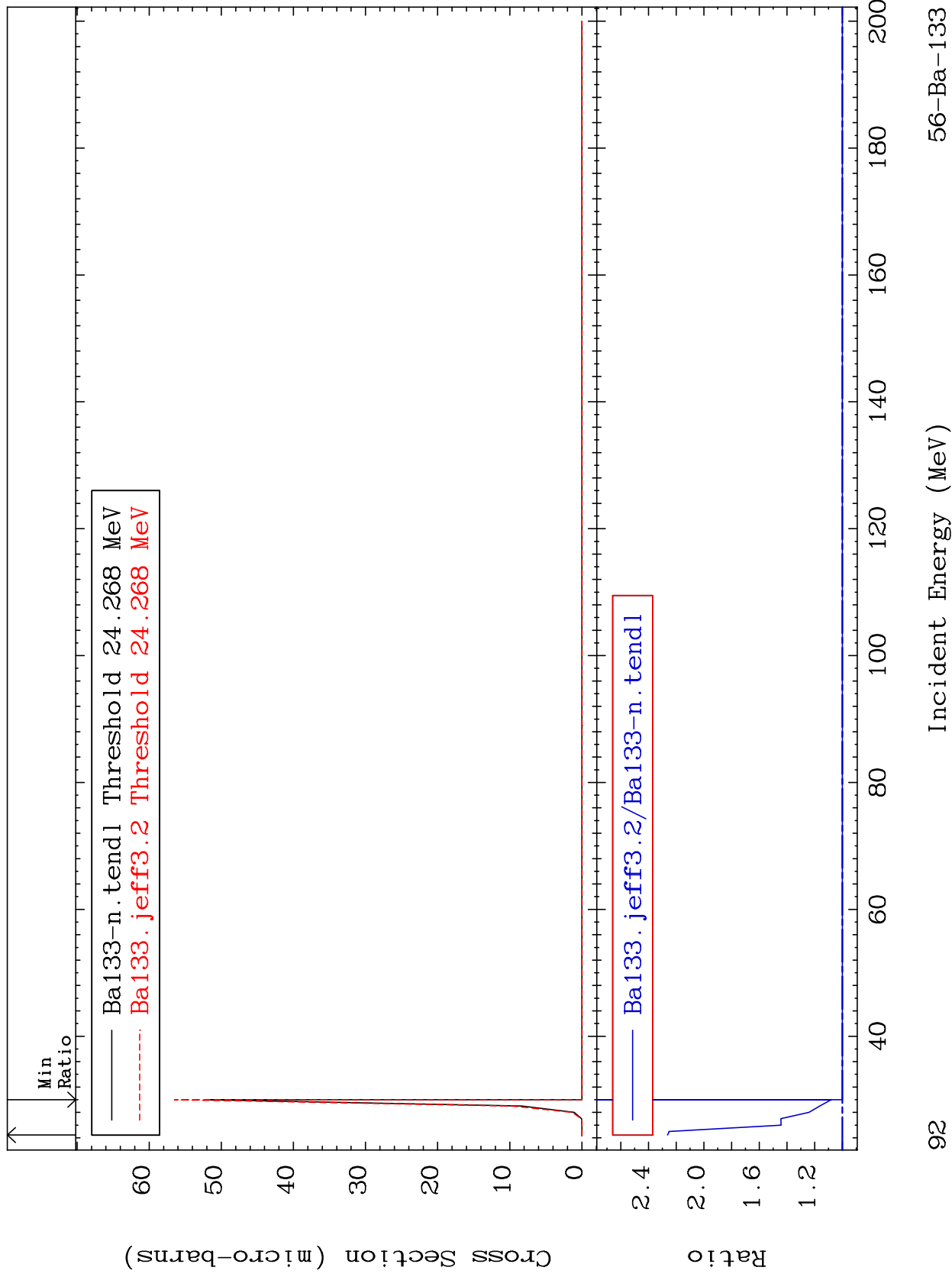
Radionuclide Production Cross Section

-72.78 To 120.8 %



MAT 5634

(n,3n) p:55-Cs-130g 56-Ba-133
Radionuclide Production Cross Section 0.000 To 126.3 %

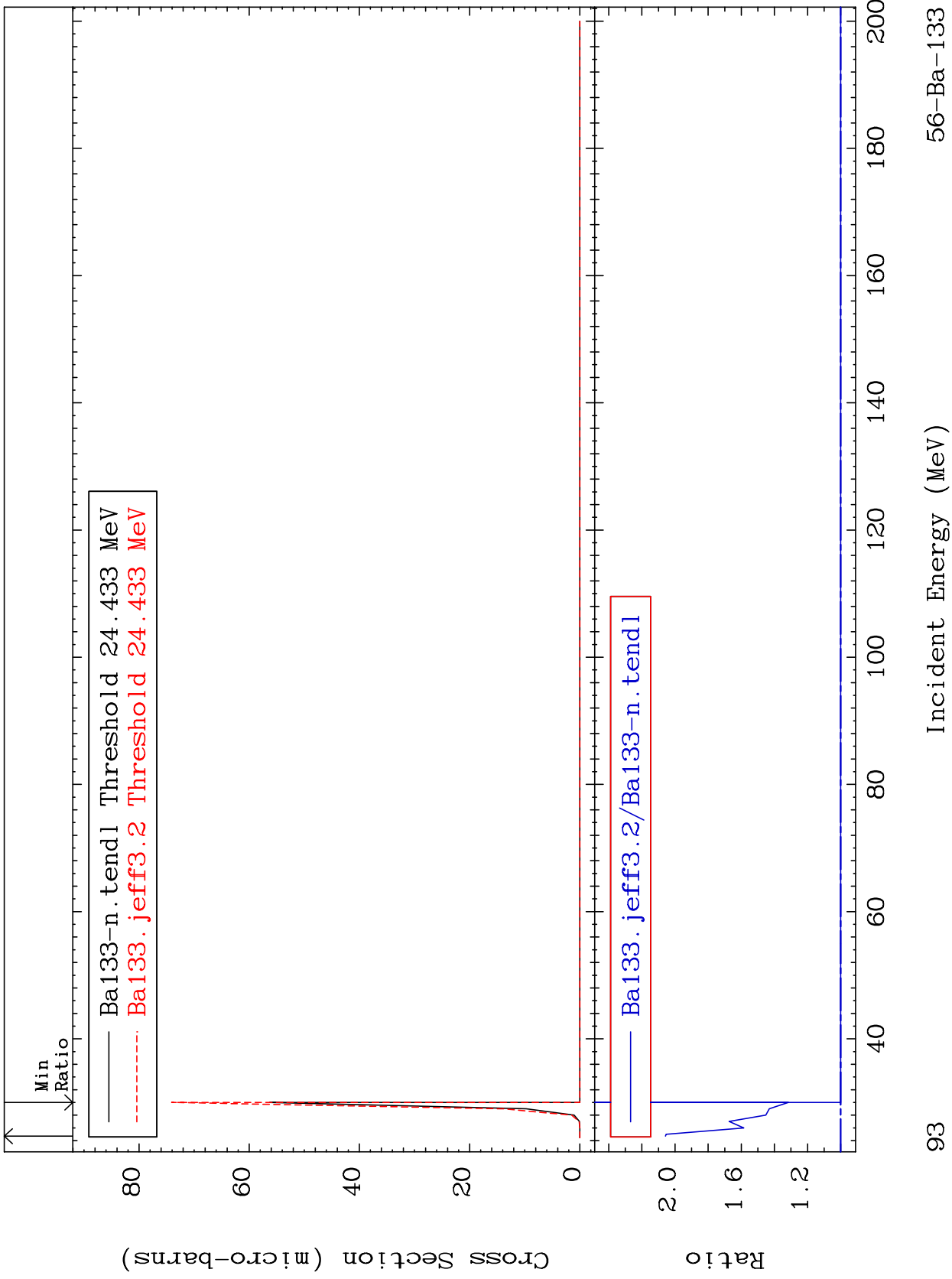


MAT 5634

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

56-Ba-133

Radionuclide Production Cross Section 0.000 To 105.7 %

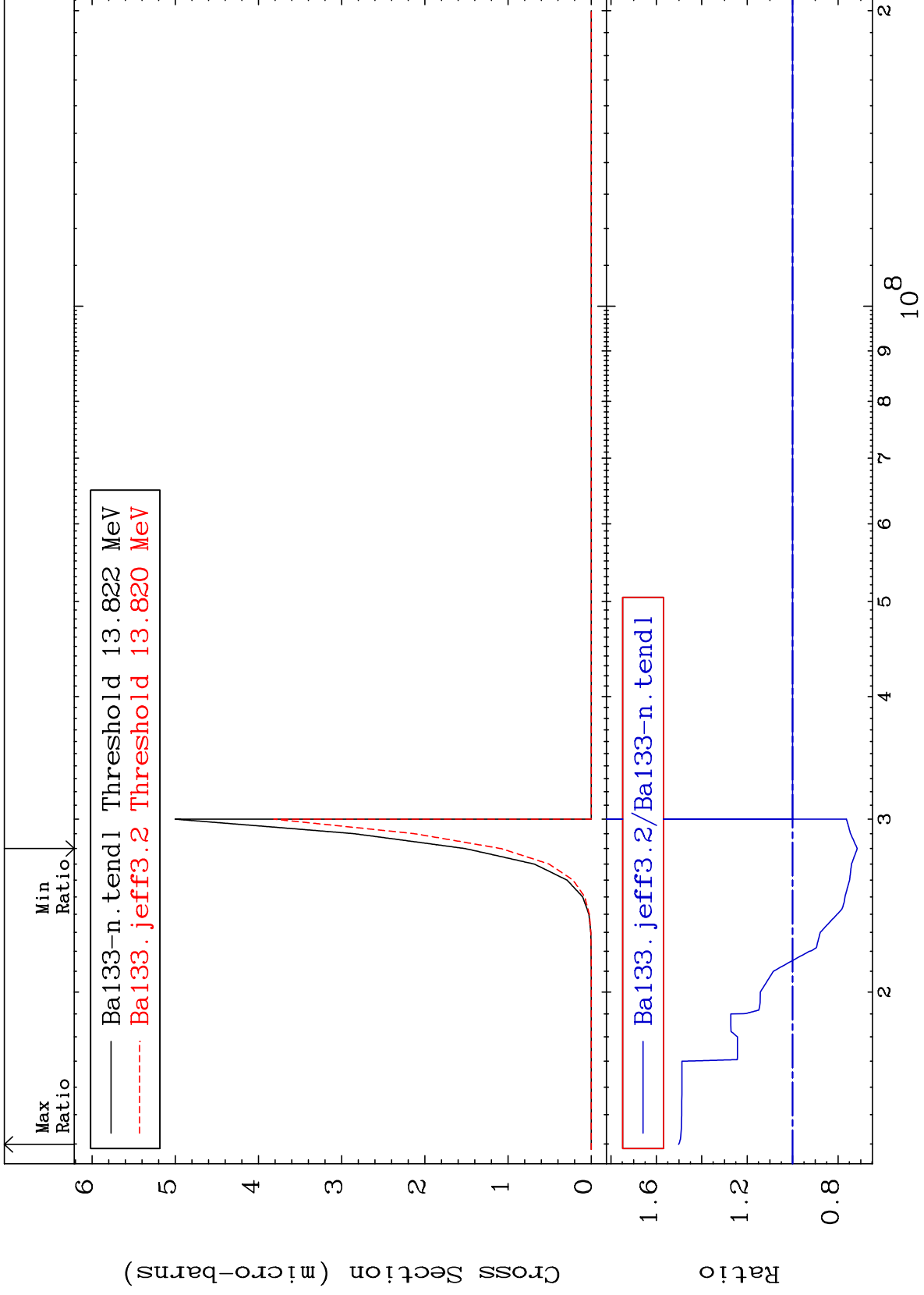


MAT 5634

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

56-Ba-133

Radionuclide Production Cross Section -28.47 To 50.19 %

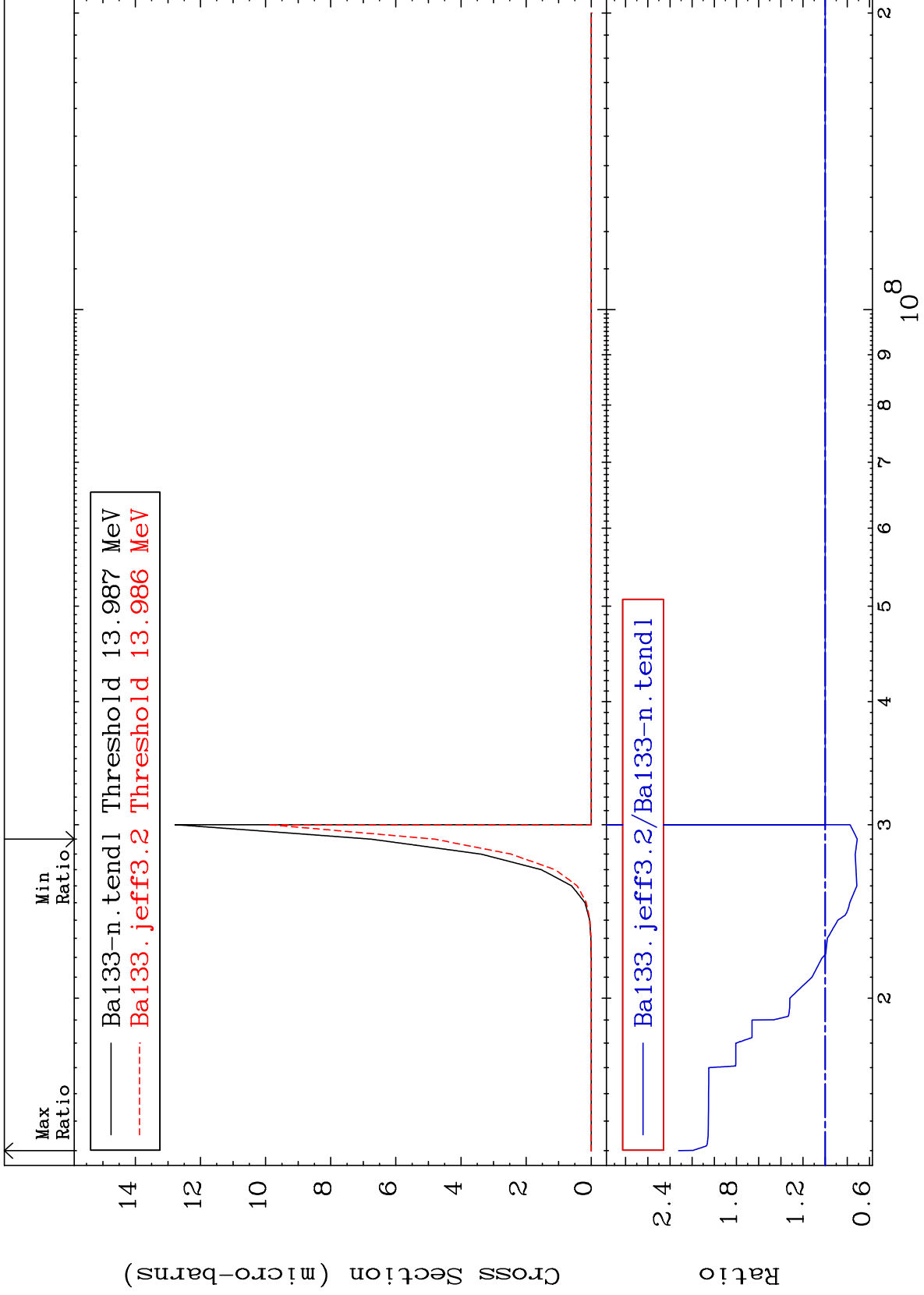


MAT 5634

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

56-Ba-133

Radionuclide Production Cross Section -28.92 To 132.2 %



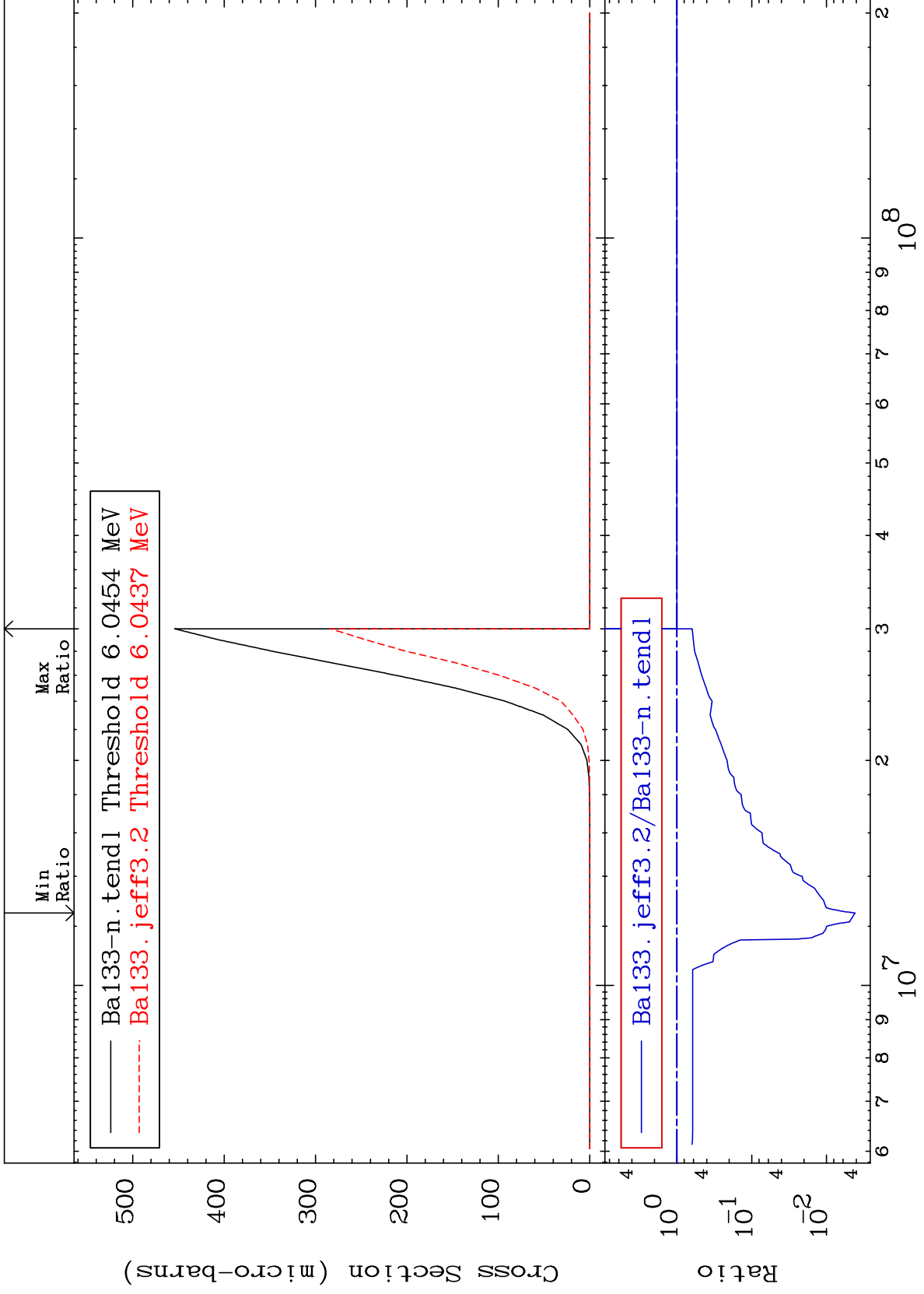
MAT 5634

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

56-Ba-133

Radionuclide Production Cross Section

-99.59 To 0.000 %



96

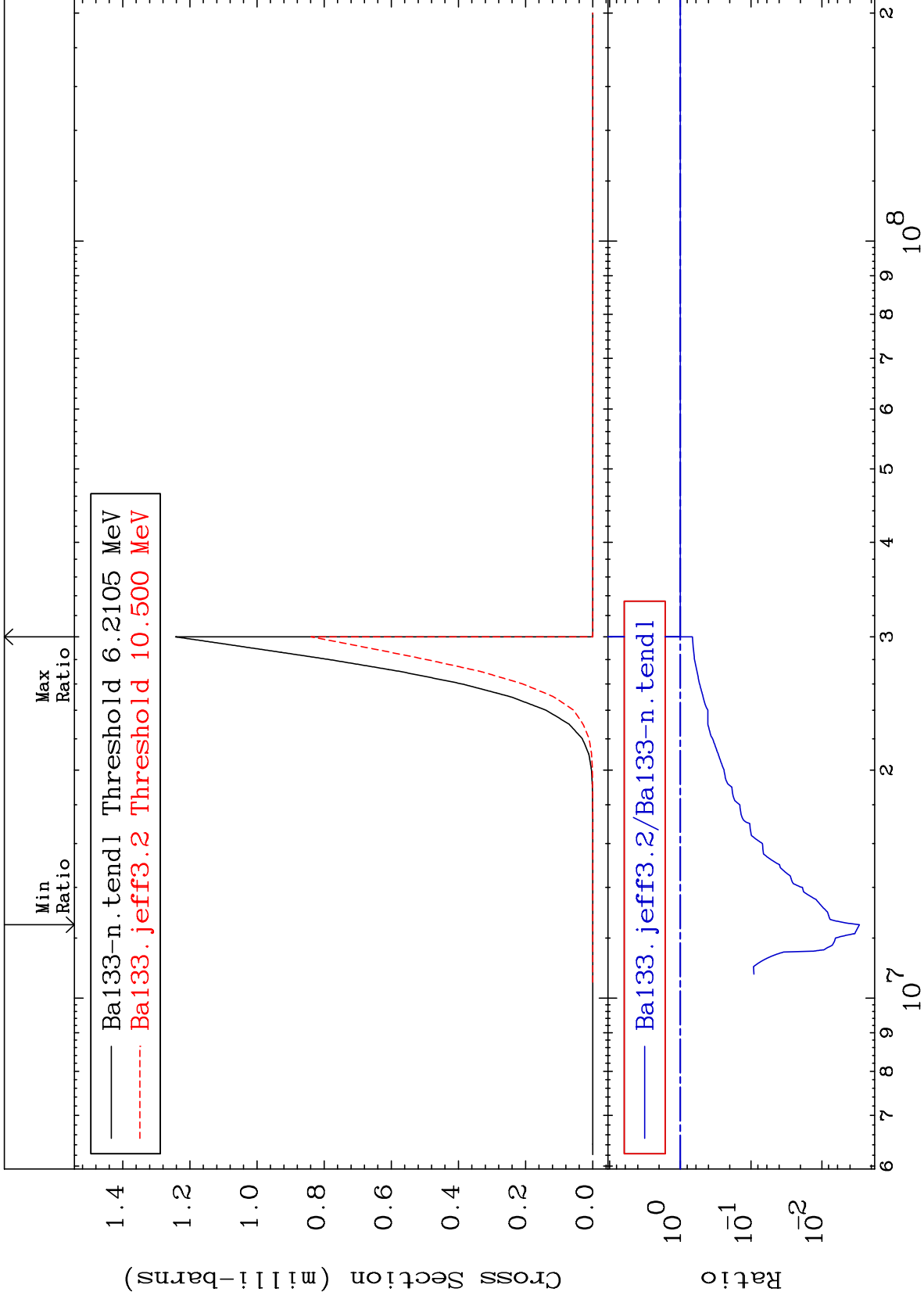
56-Ba-133

MAT 5634

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

56-Ba-133

Radionuclide Production Cross Section -99.71 To 0.000 %



97

Incident Energy (eV)

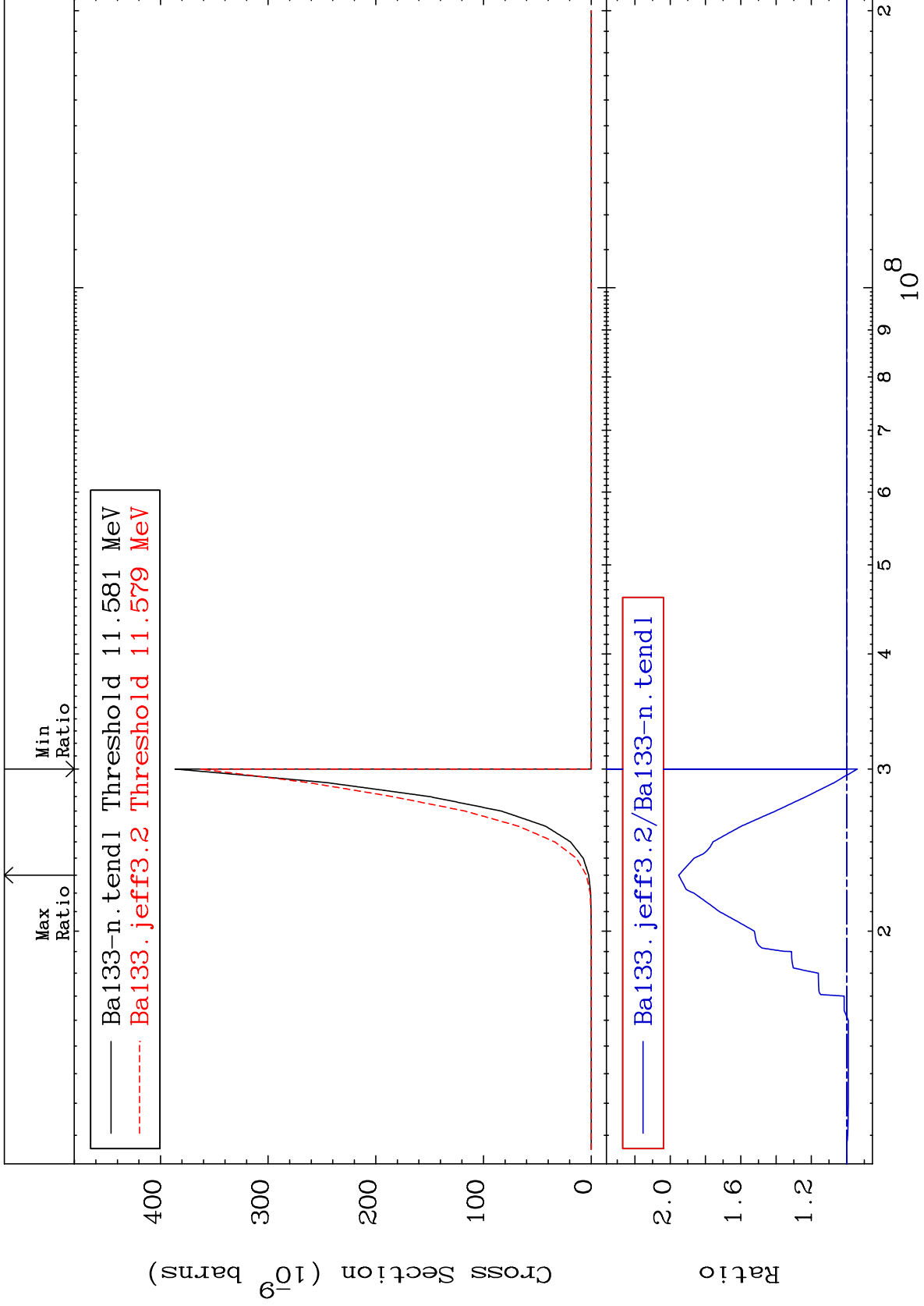
56-Ba-133

MAT 5634

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

56-Ba-133

Radionuclide Production Cross Section -5.992 To 95.21 %



MAT 5634

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

56-Ba-133

Radionuclide Production Cross Section -4.470 To 121.5 %

