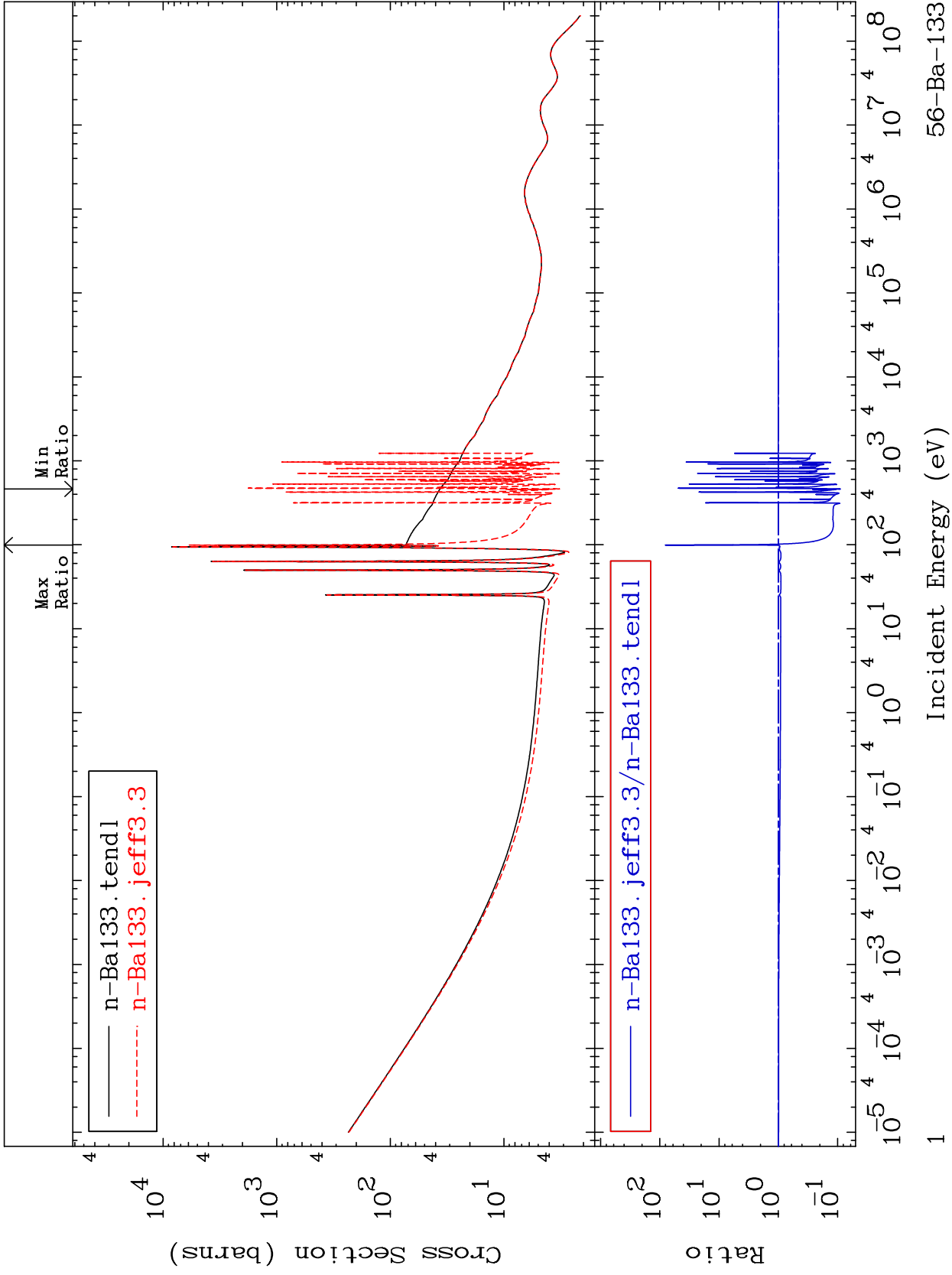


MAT 5634

Total Cross Section
56-Ba-133
-91.12 To 7907. %



56-Ba-133

Incident Energy (eV)

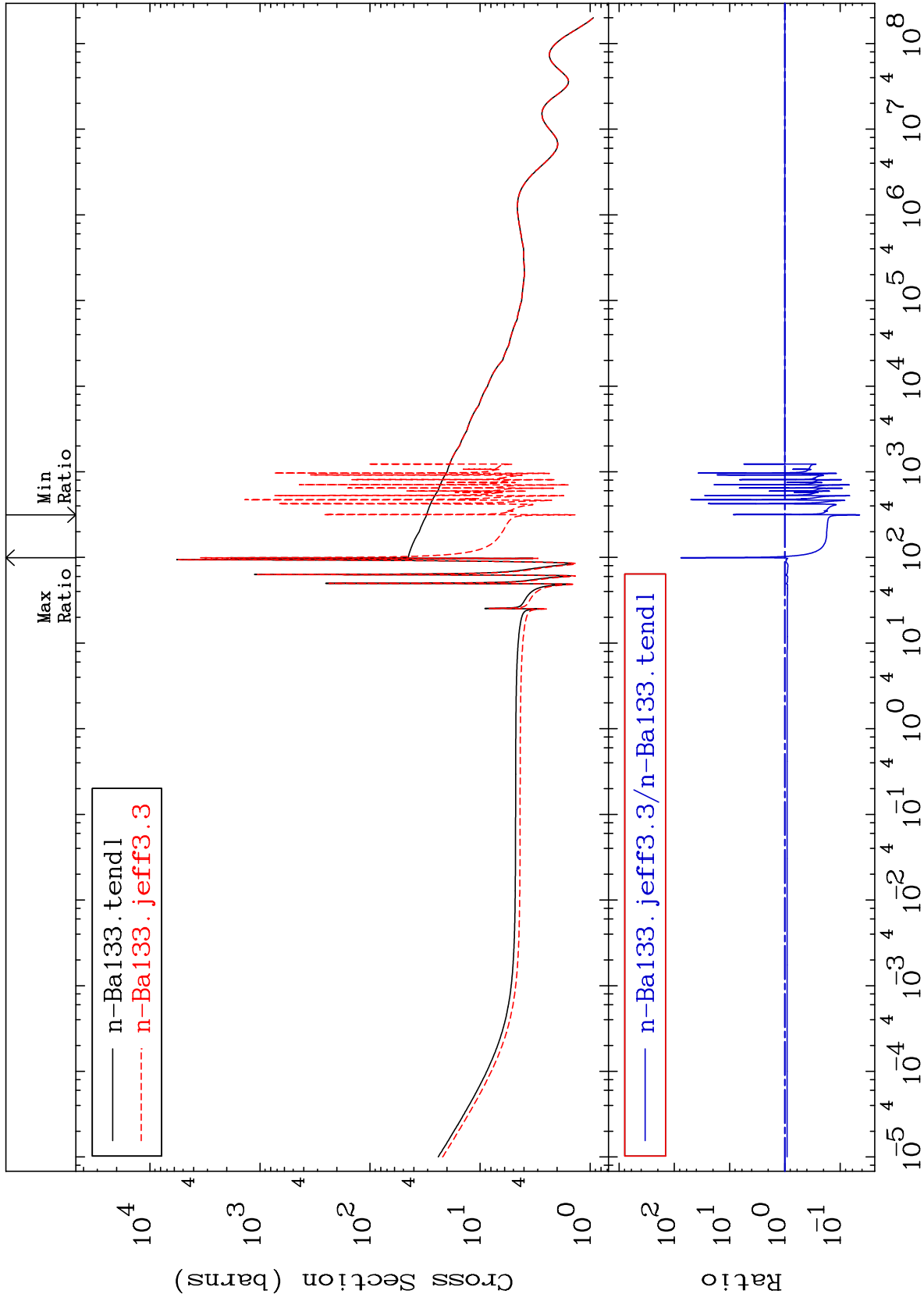
MAT 5634

Elastic

56-Ba-133

Cross Section

-95.55 To 7560. %



2

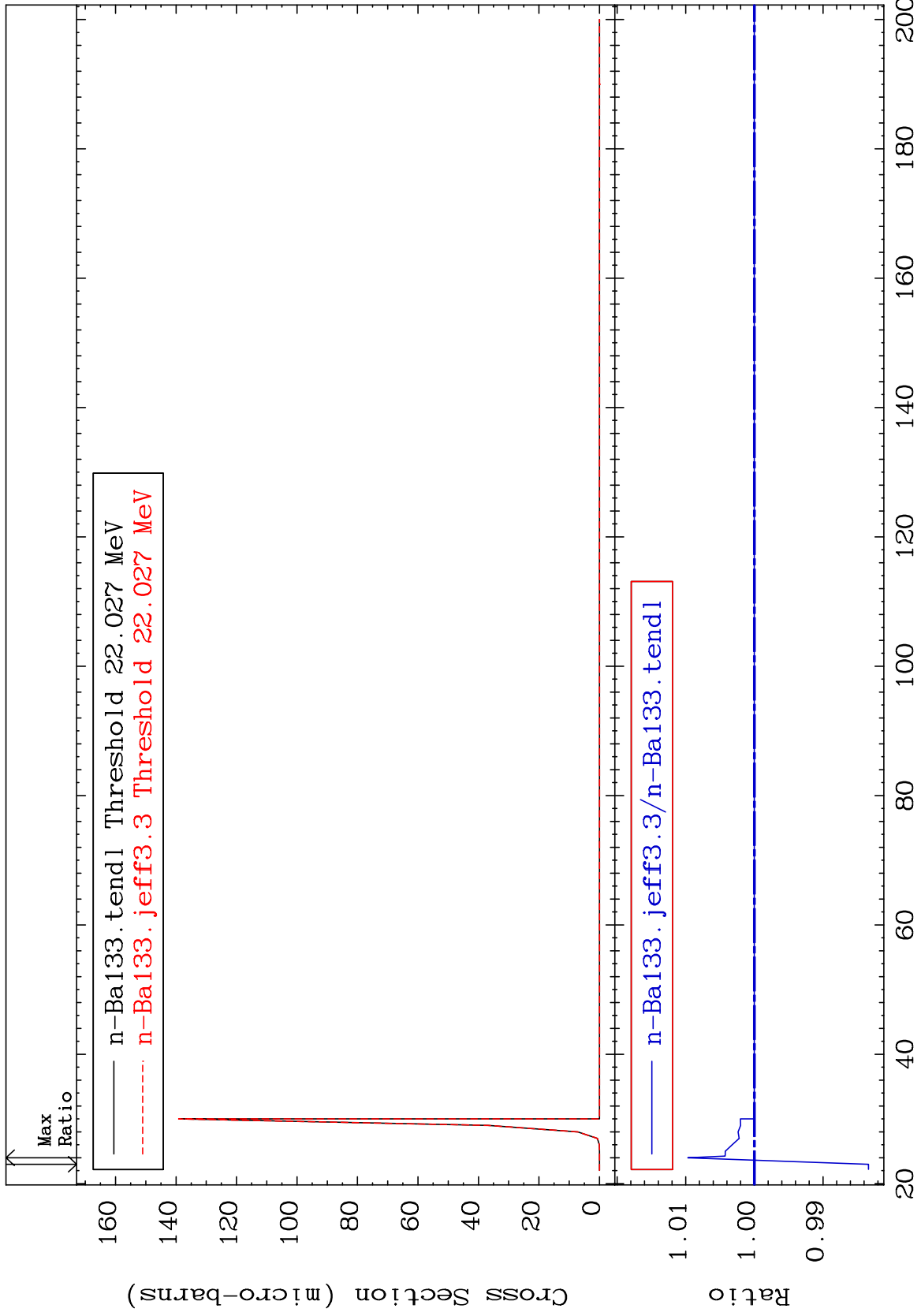
Incident Energy (eV)

56-Ba-133

MAT 5634

(n,2n) d
Cross Section

56-Ba-133
-1.663 To 0.969 %



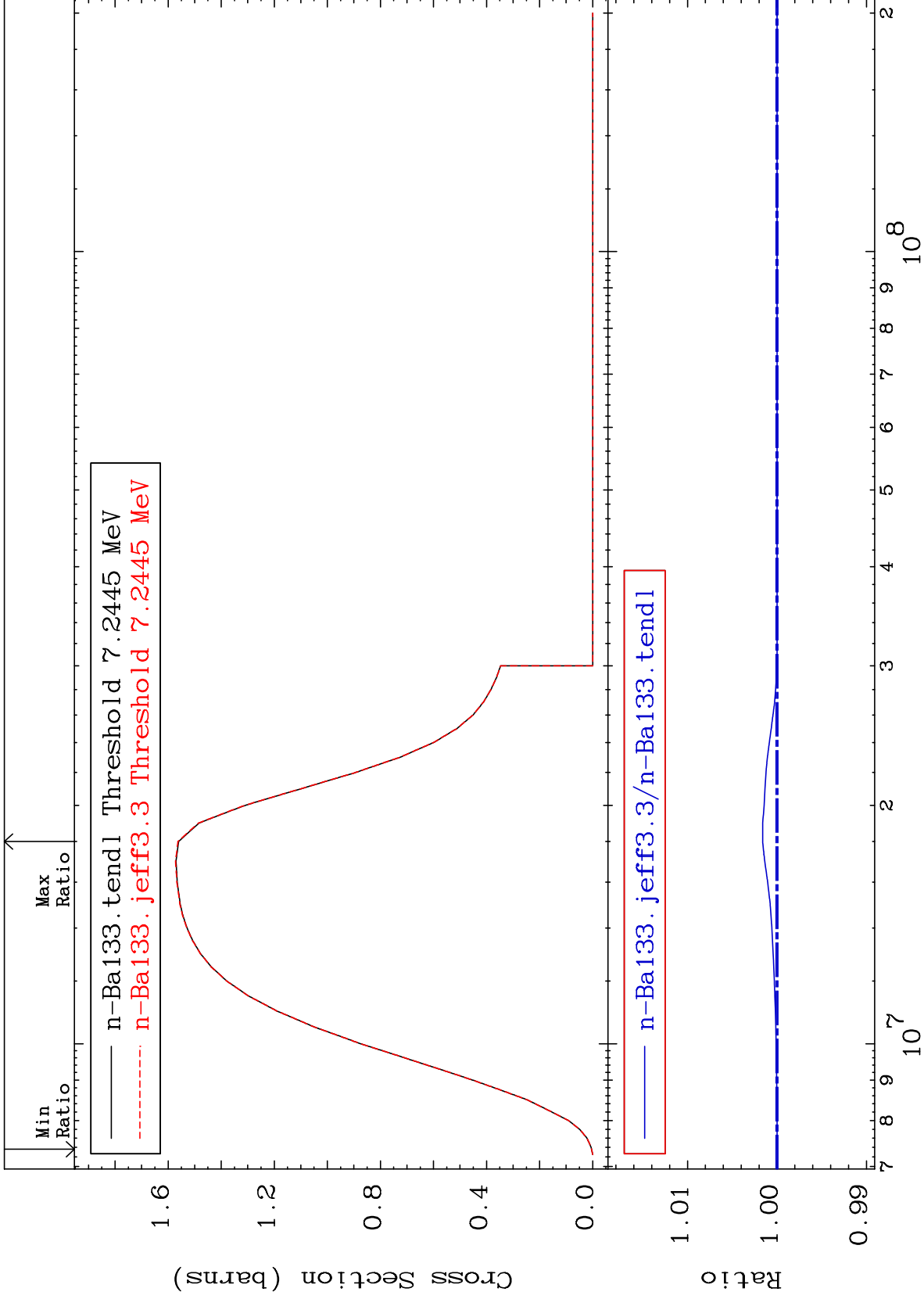
MAT 5634

(n,2n)

56-Ba-133

Cross Section

-0.002 To 0.160 %



4

Incident Energy (eV)

56-Ba-133

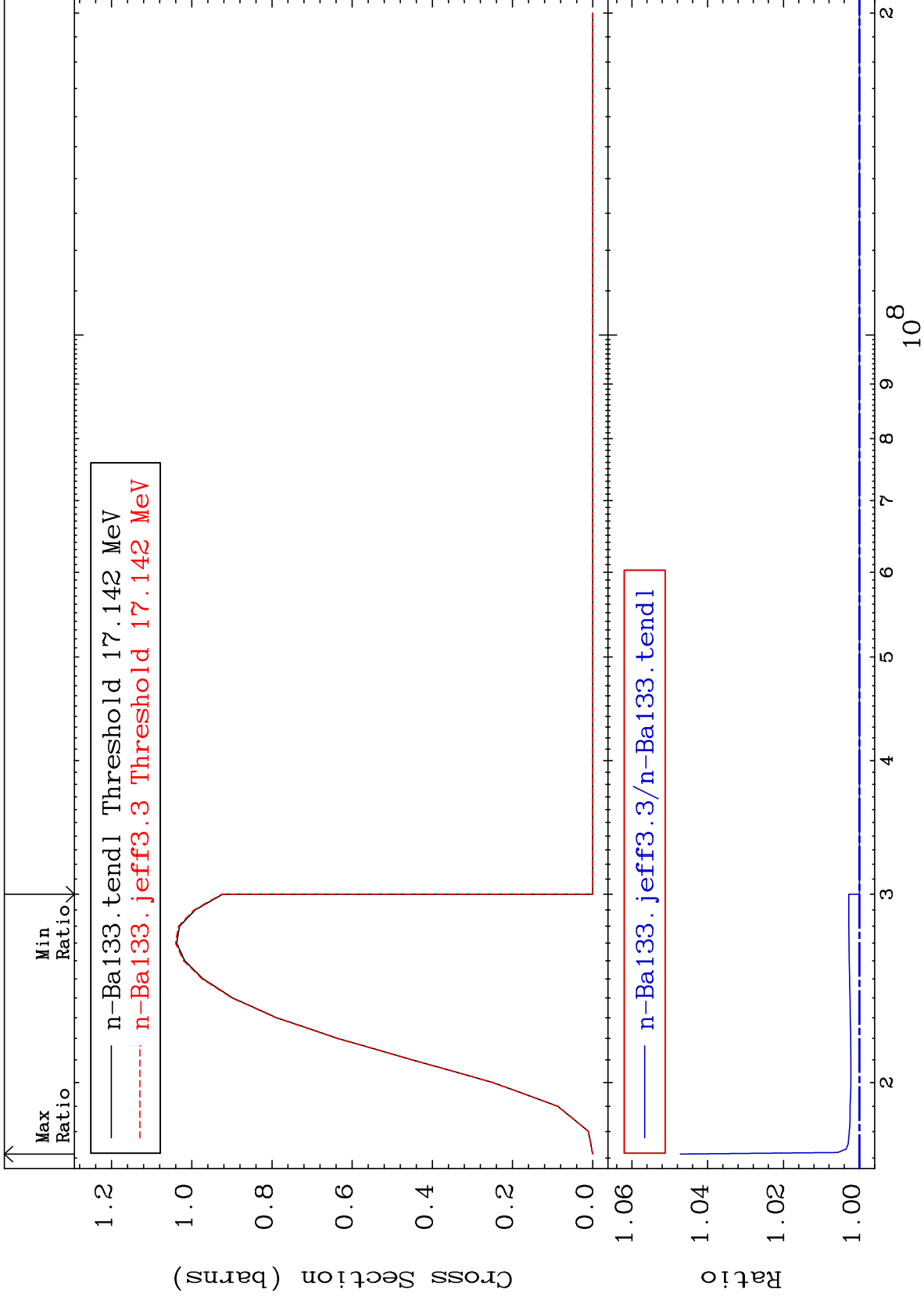
MAT 5634

(n,3n)

56-Ba-133

Cross Section

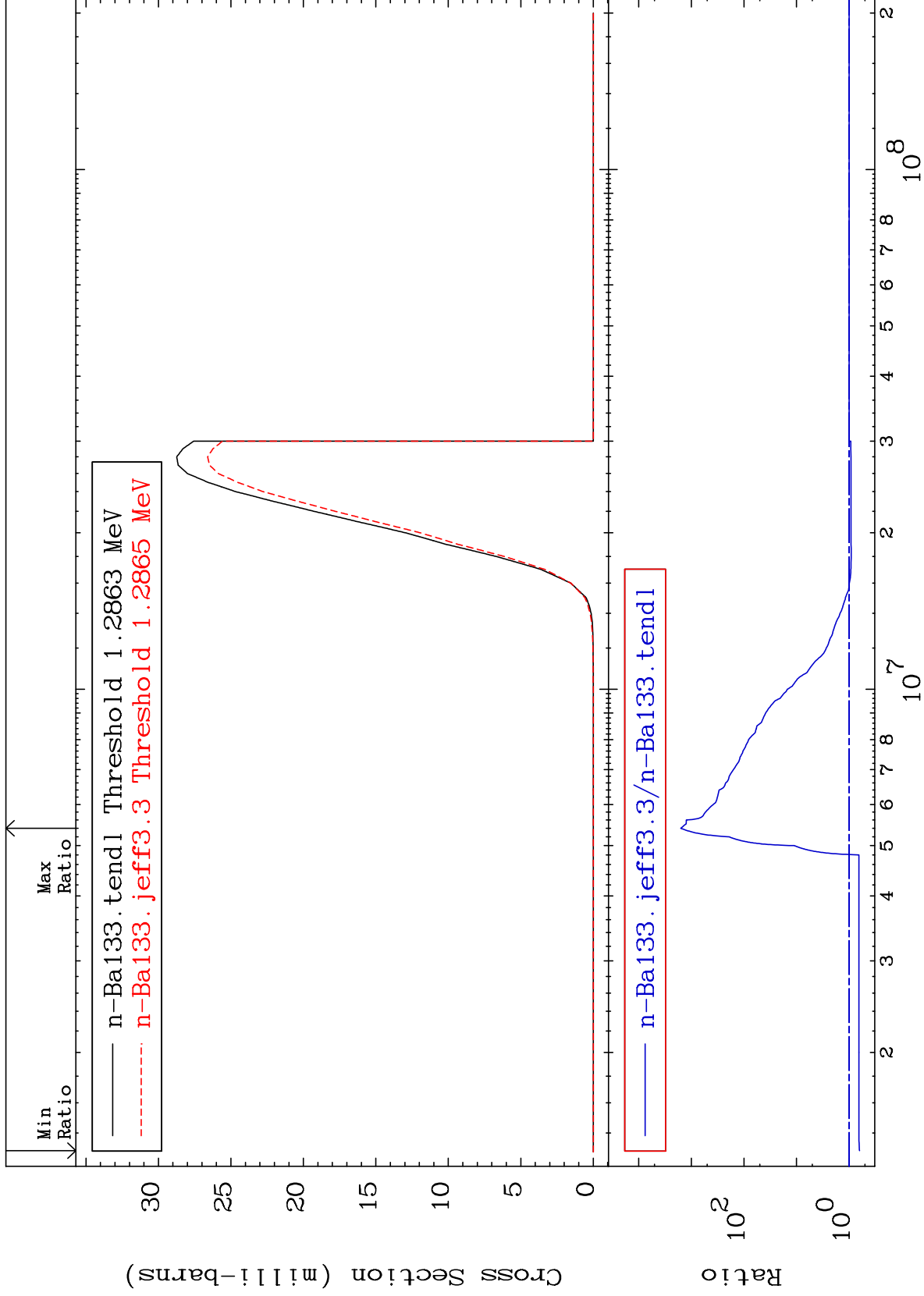
0.000 To 4.721 %



MAT 5634

(n,n') α
Cross Section

56-Ba-133
-36.58 To 9999. %



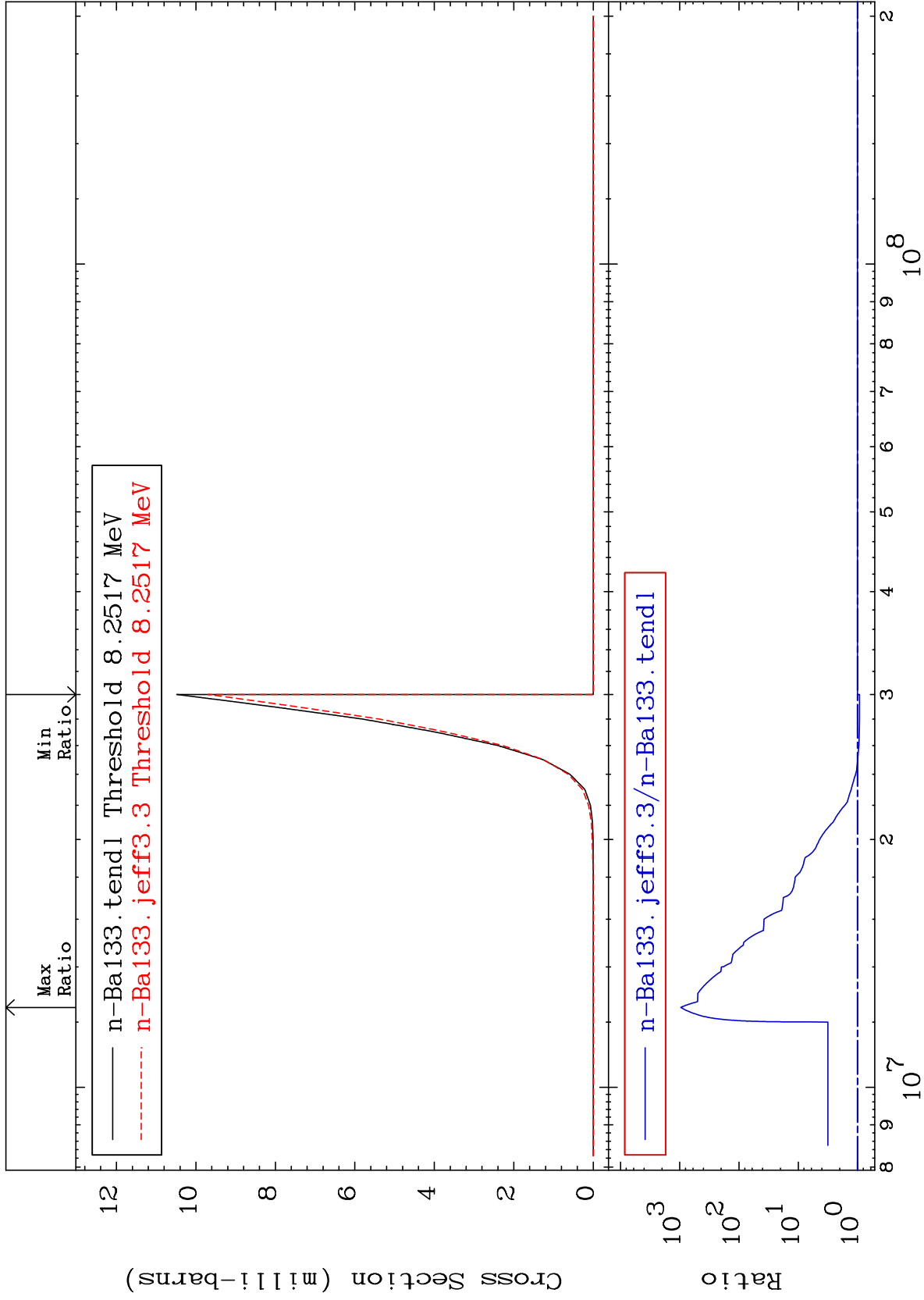
MAT 5634

(n,2n) α

56-Ba-133

Cross Section

-7.507 To 9999. %



7

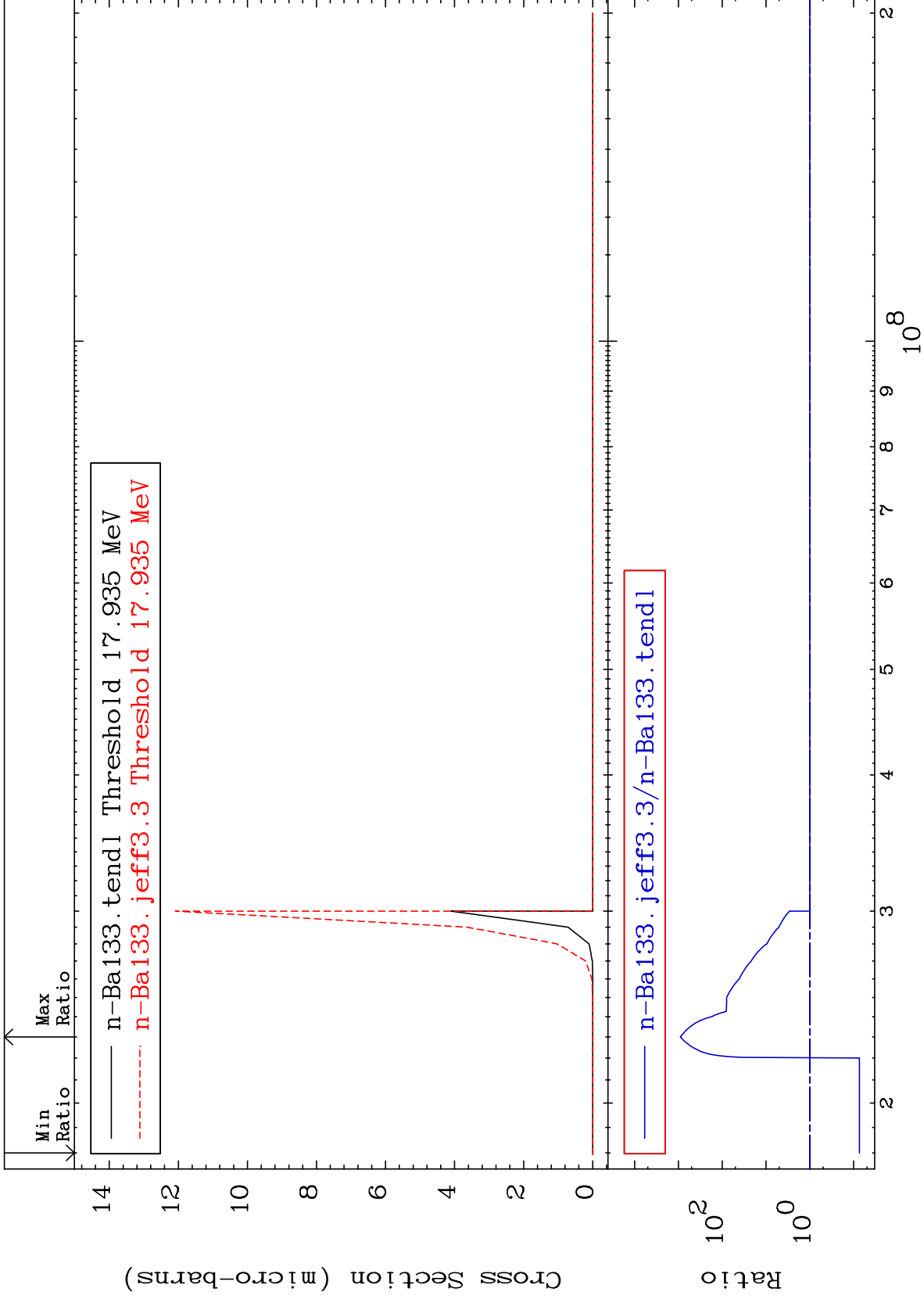
Incident Energy (eV)

56-Ba-133

MAT 5634

(n,3n) α
Cross Section

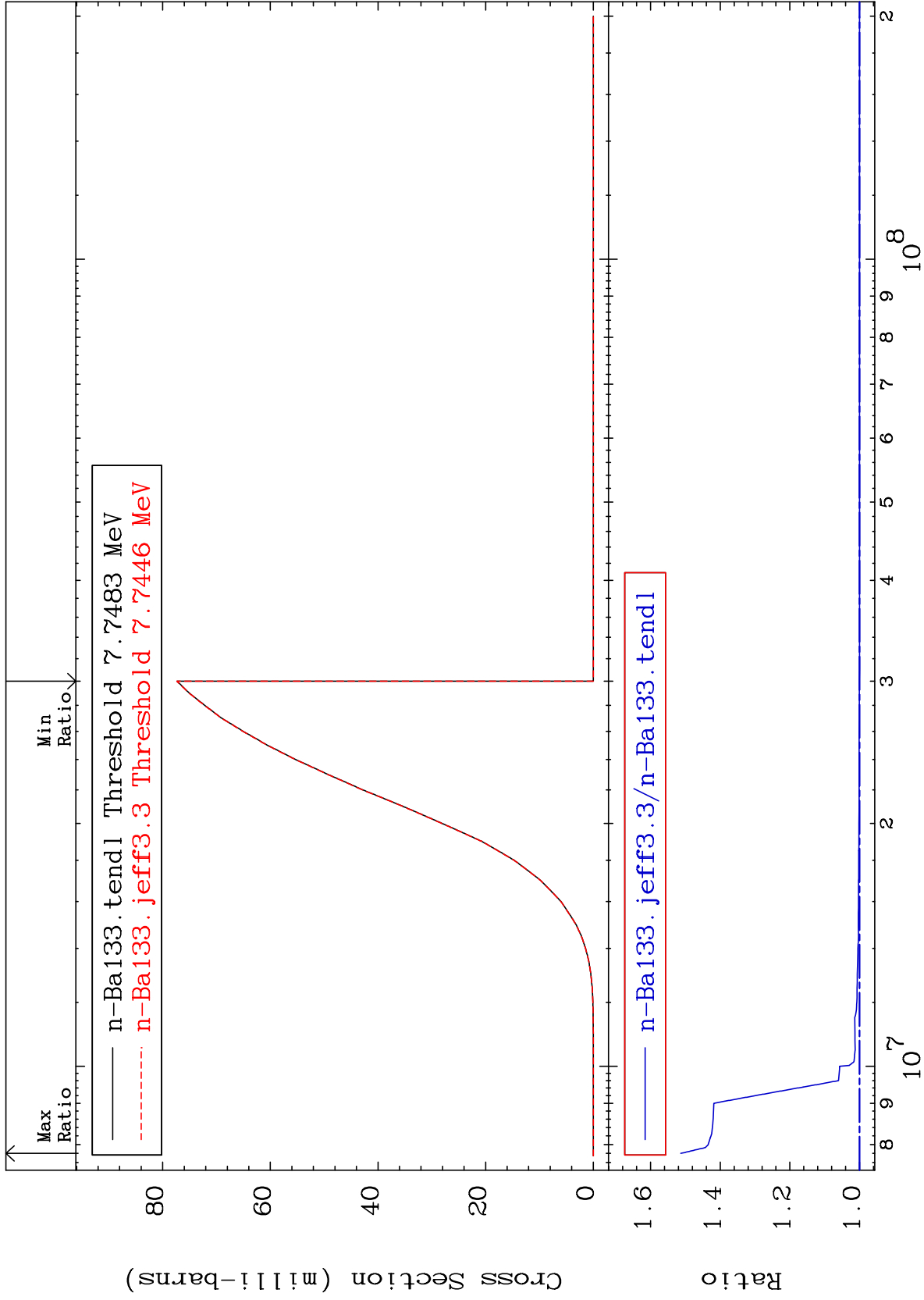
56-Ba-133
-92.61 To 9999. %



MAT 5634

(n,n') p
Cross Section

56-Ba-133
To 51.33 %



9

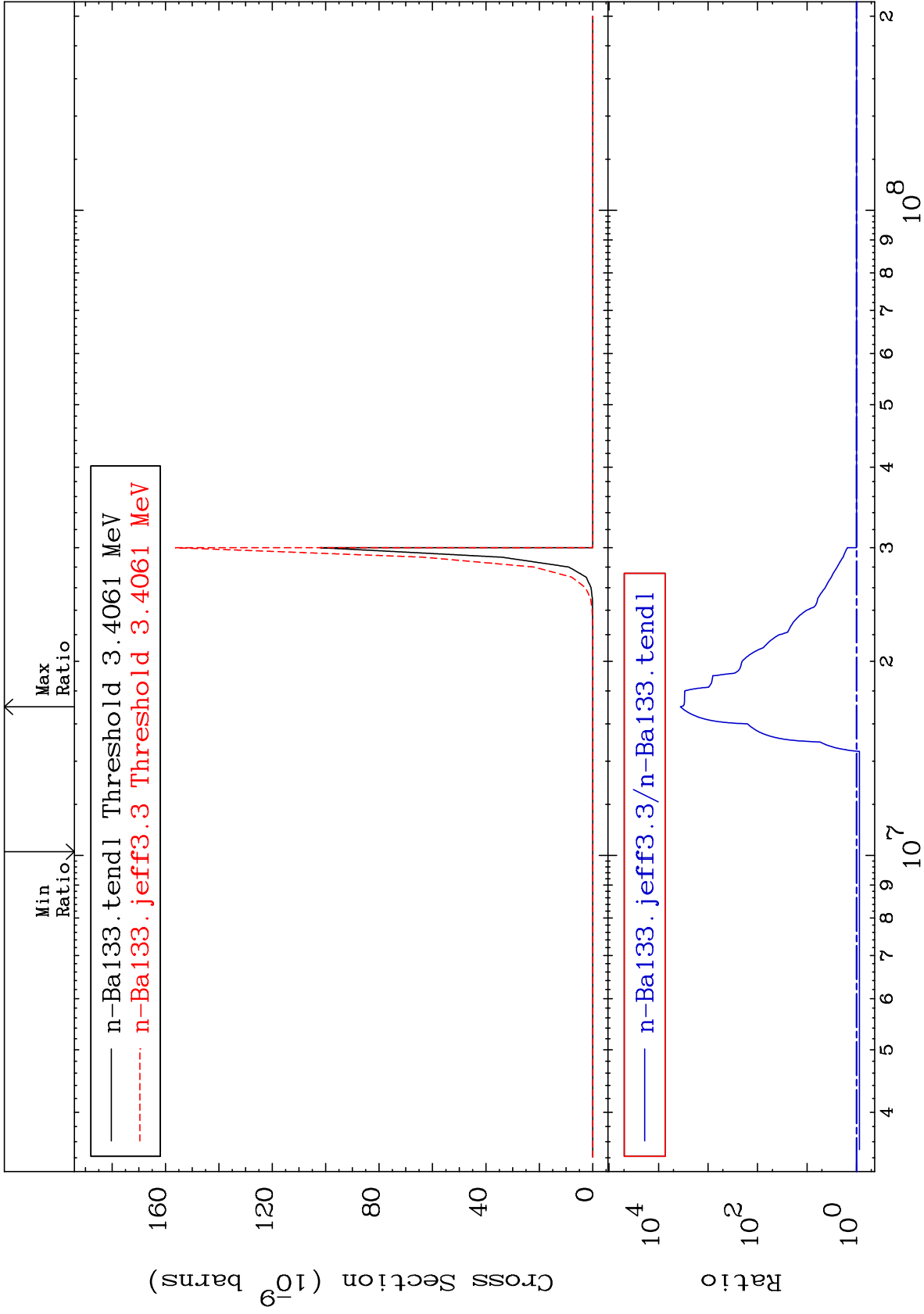
Incident Energy (eV)

56-Ba-133

MAT 5634

(n, n') 2α
Cross Section

56-Ba-133
-12.83 To 9999. %



10

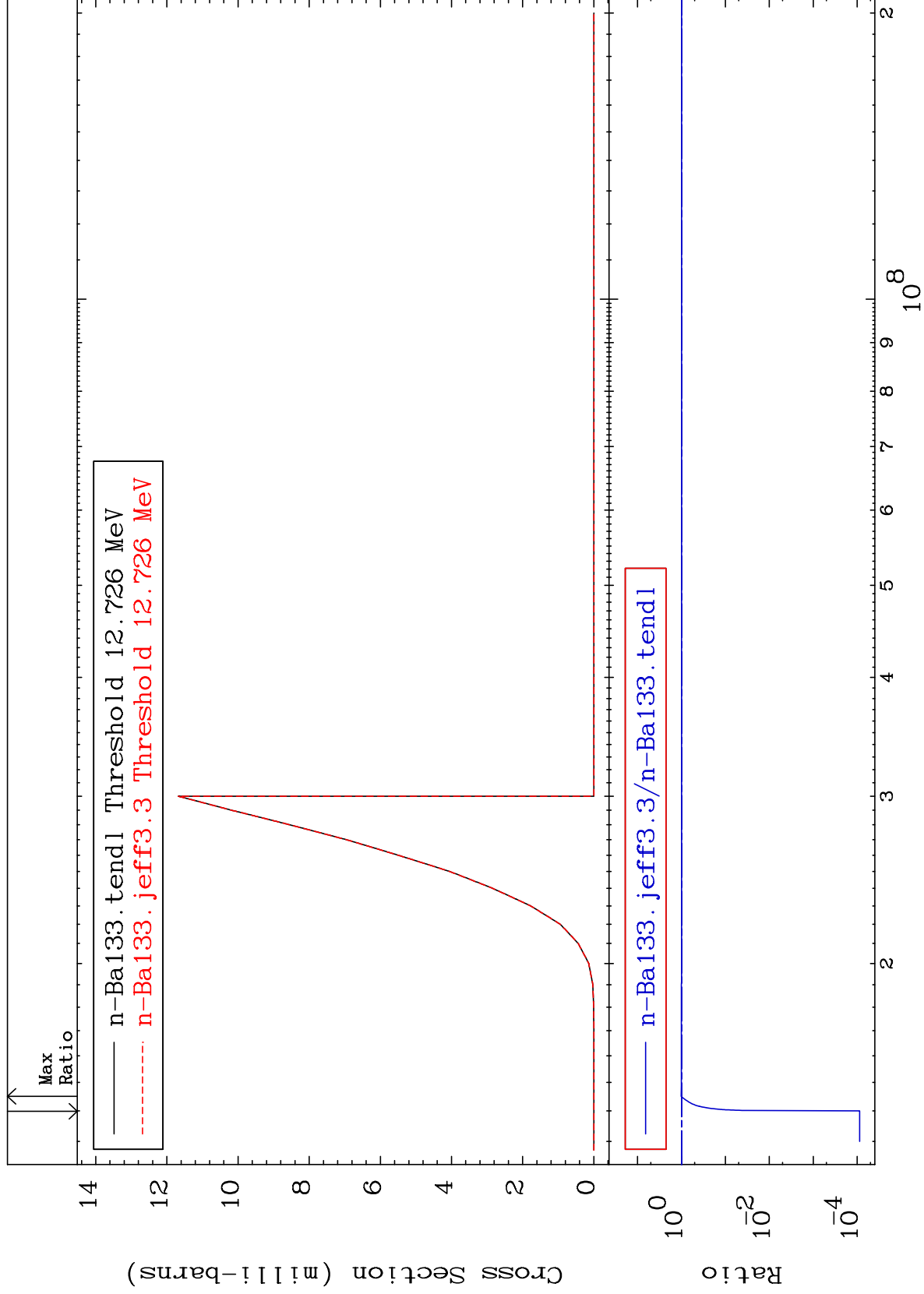
Incident Energy (eV)

56-Ba-133

MAT 5634

(n,n') d
Cross Section

56-Ba-133
-99.99 To 1.625 %



MAT 5634

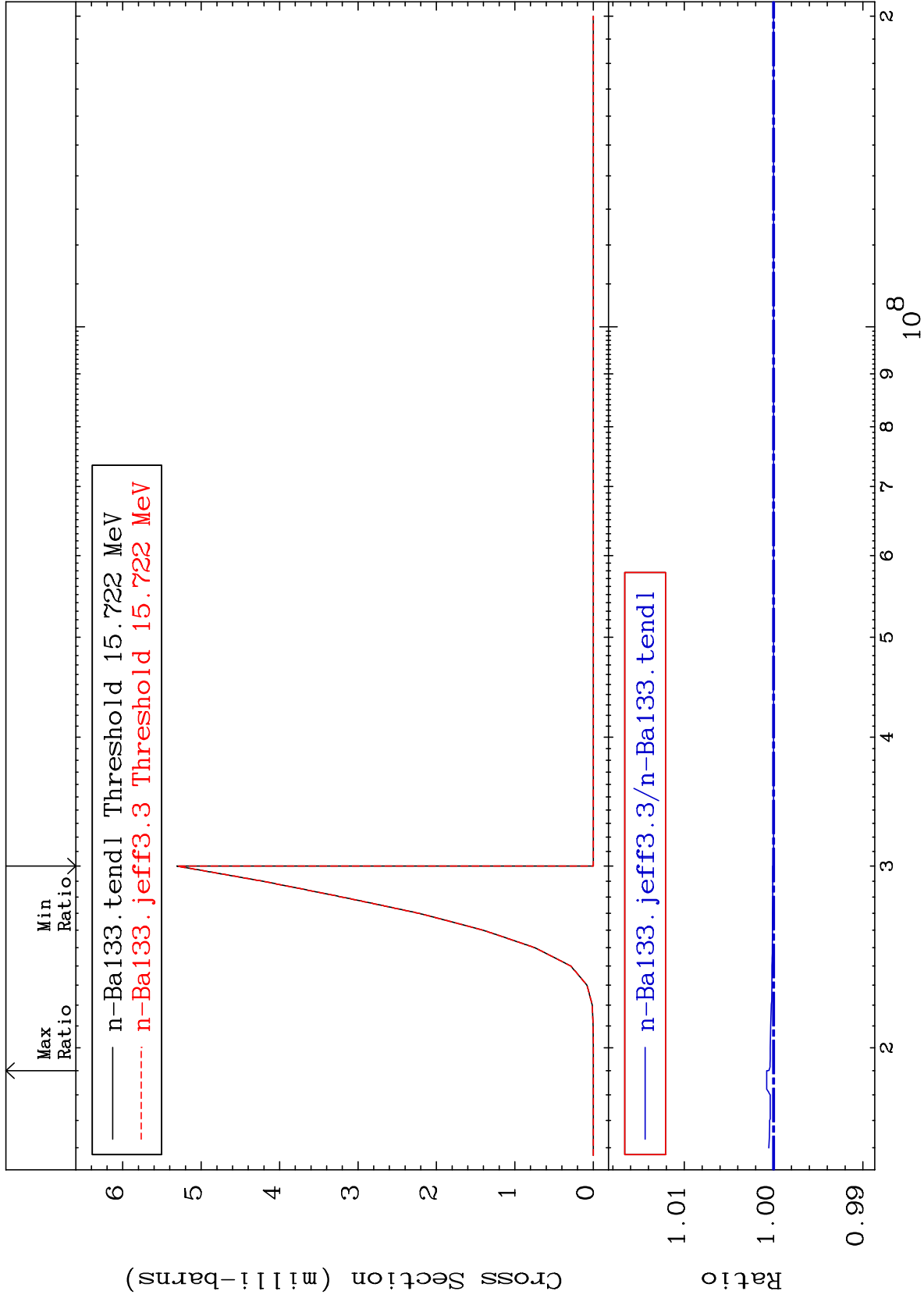
(n,n') t

56-Ba-133

Cross Section

0.000

To 0.077 %



12

Incident Energy (eV)

56-Ba-133

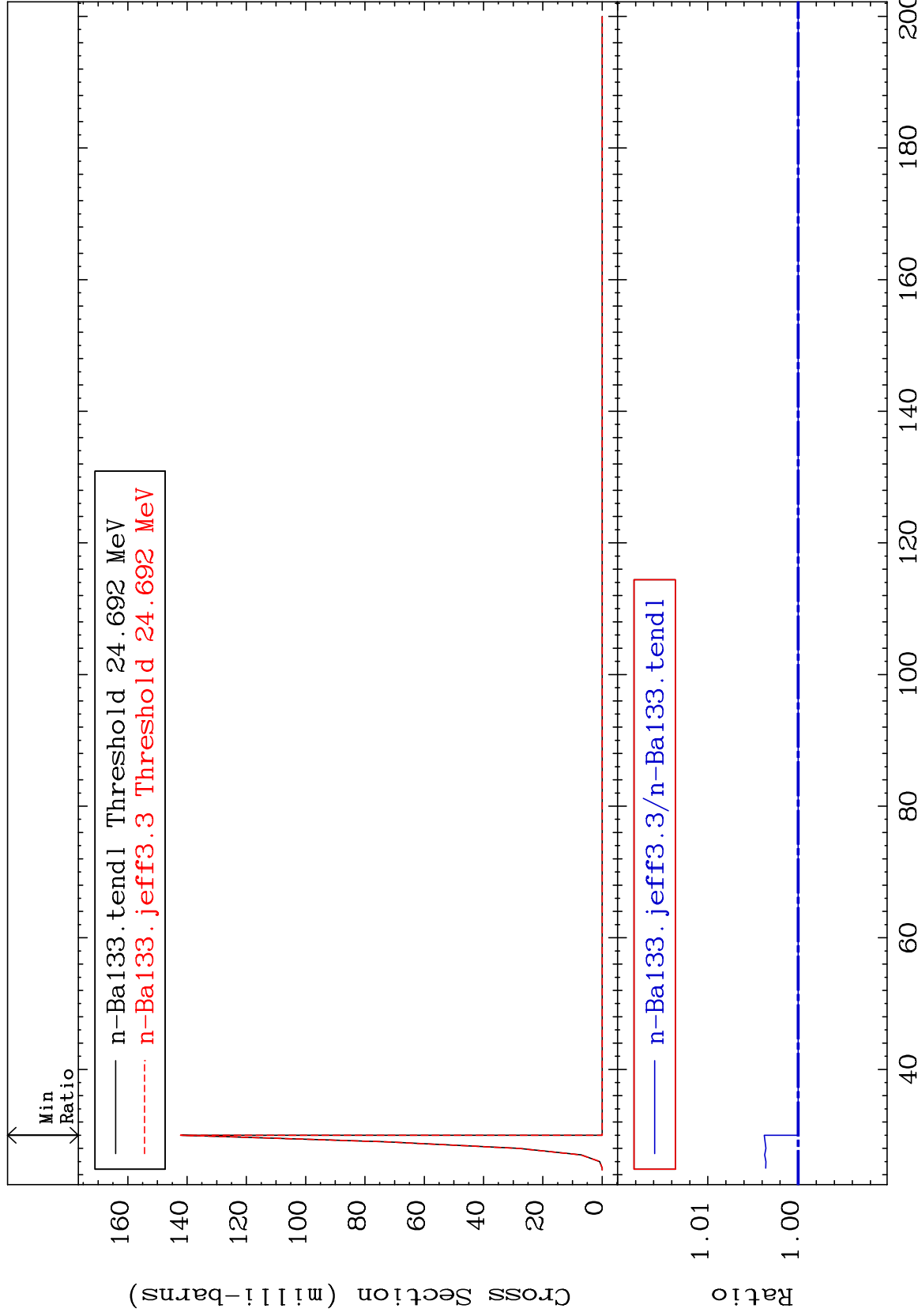
MAT 5634

(n,4n)

56-Ba-133

Cross Section

0.000 To 0.375 %



14

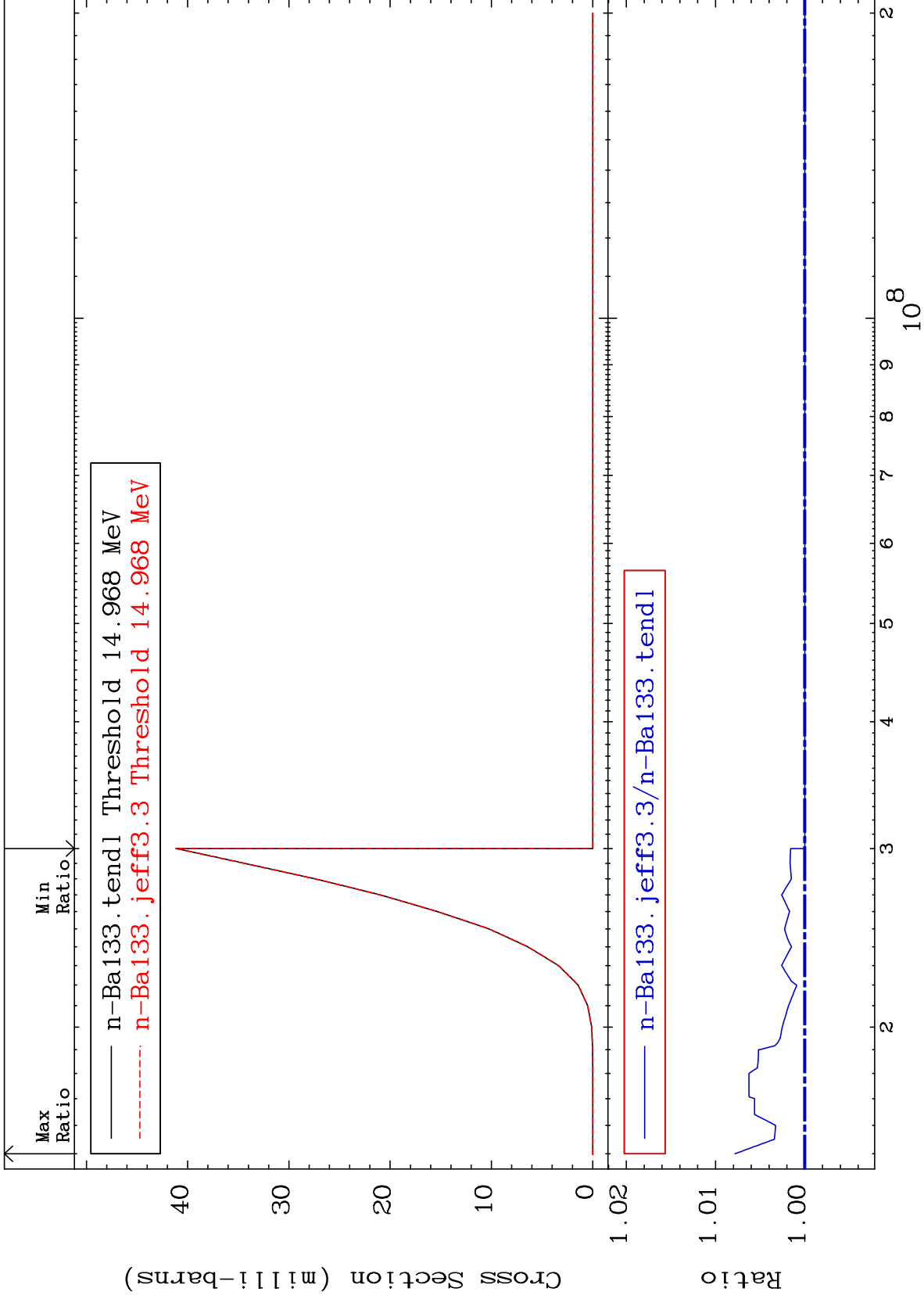
Incident Energy (MeV)

56-Ba-133

MAT 5634

(n,2n) p
Cross Section

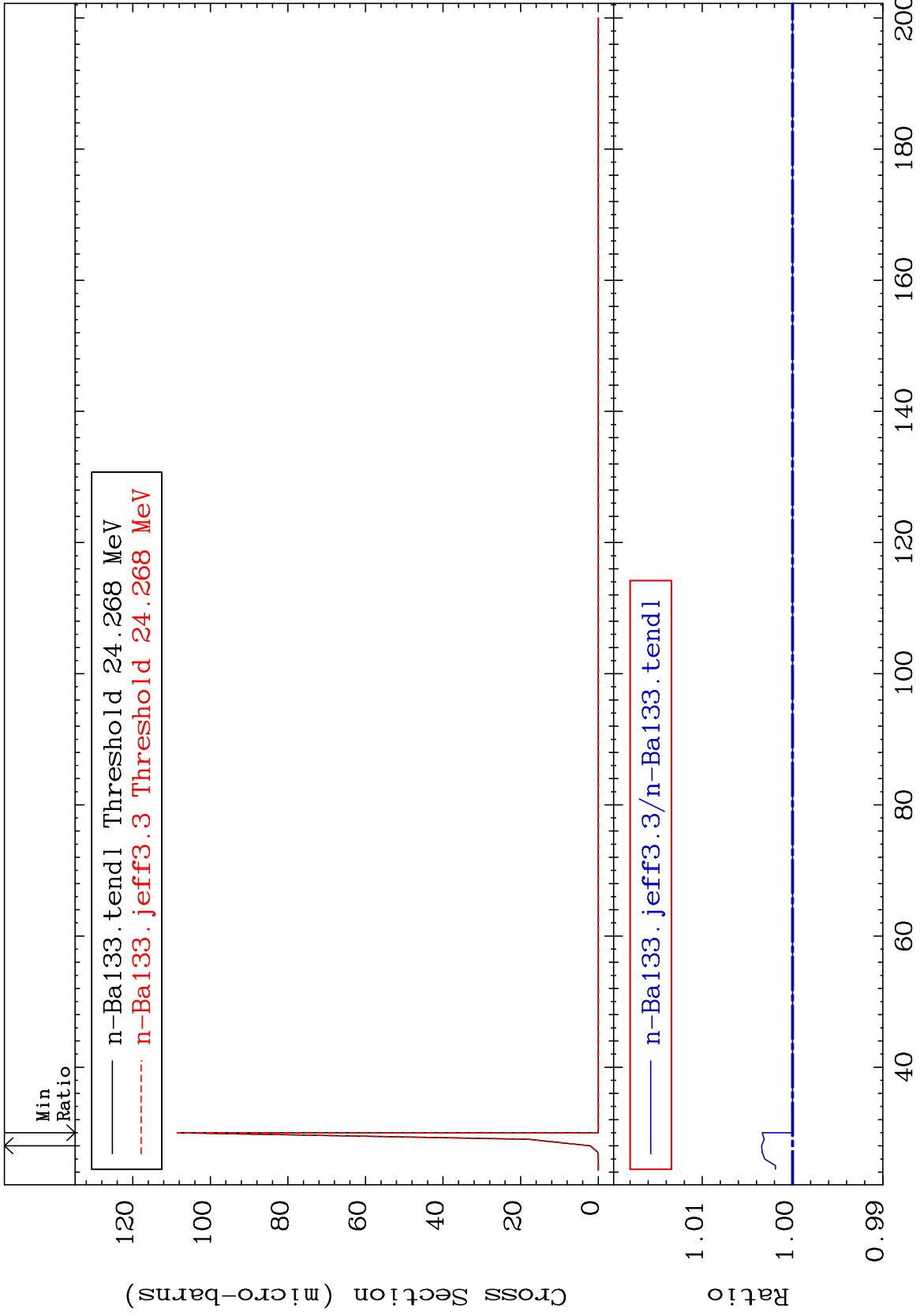
56-Ba-133
To 0.782 %



MAT 5634

(n,3n) p
Cross Section

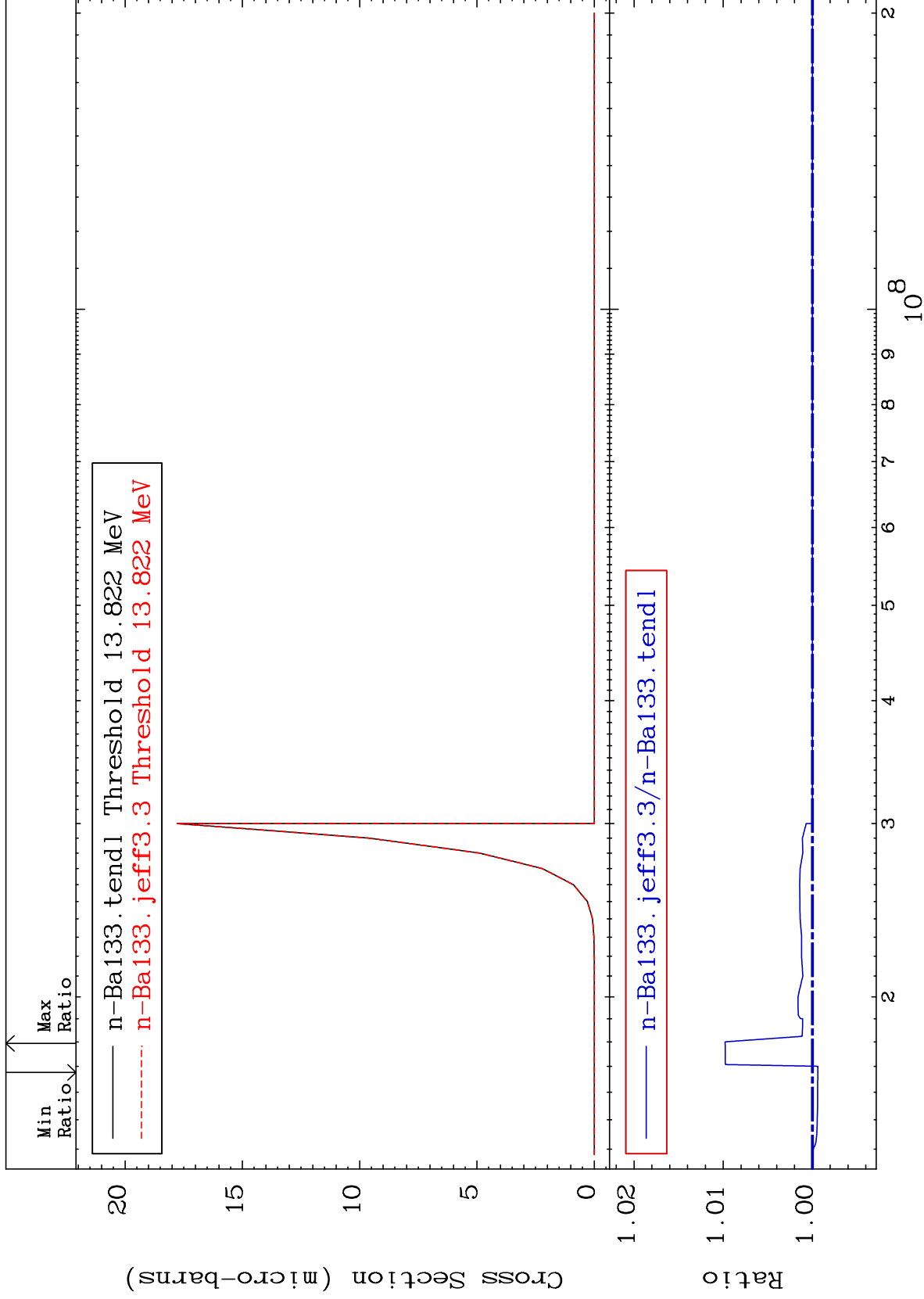
56-Ba-133
0.000 To 0.343 %



MAT 5634

(n,2n) p
Cross Section

56-Ba-133
-0.061 To 0.979 %



17

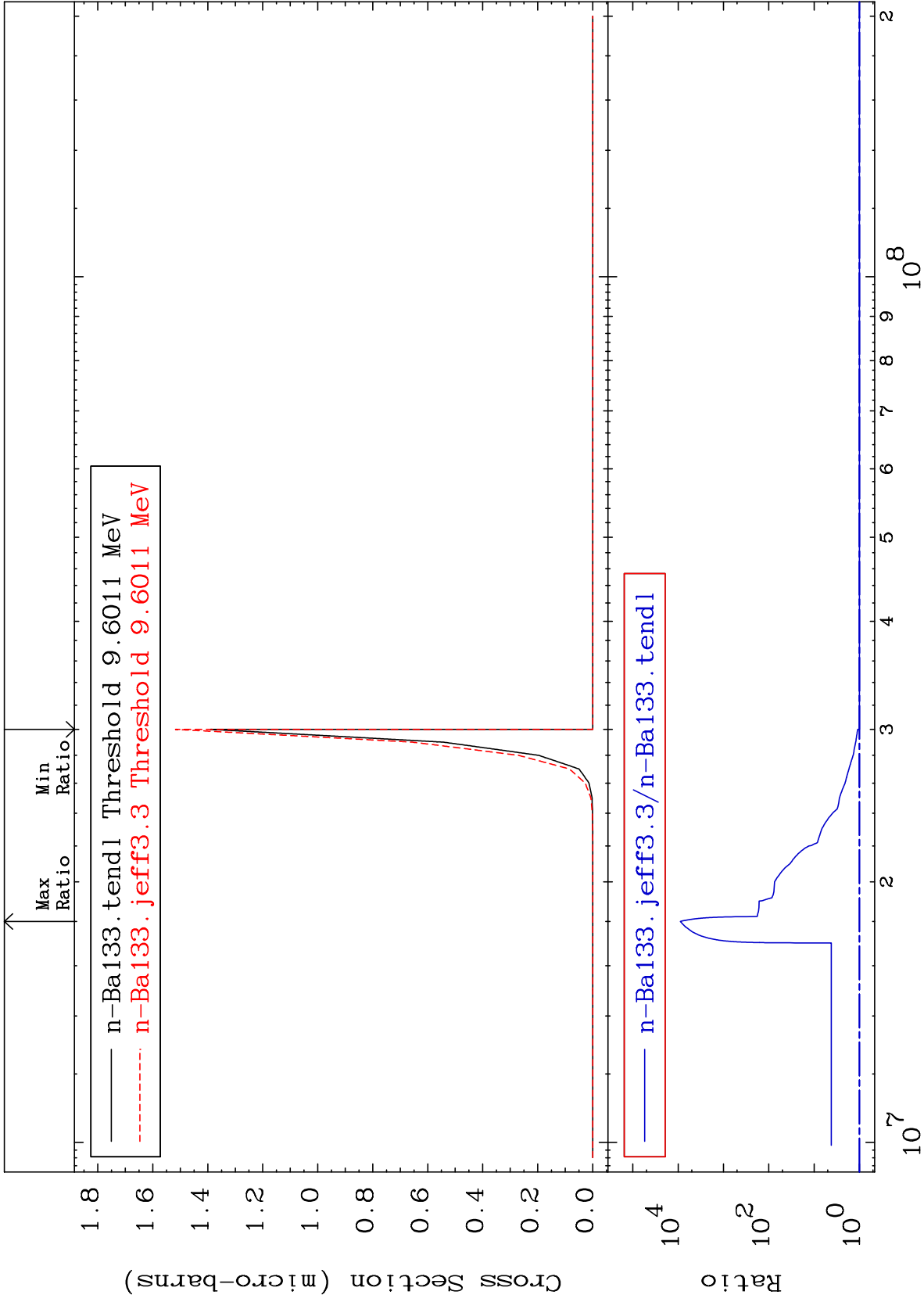
Incident Energy (eV)

56-Ba-133

MAT 5634

(n,n') p α
Cross Section

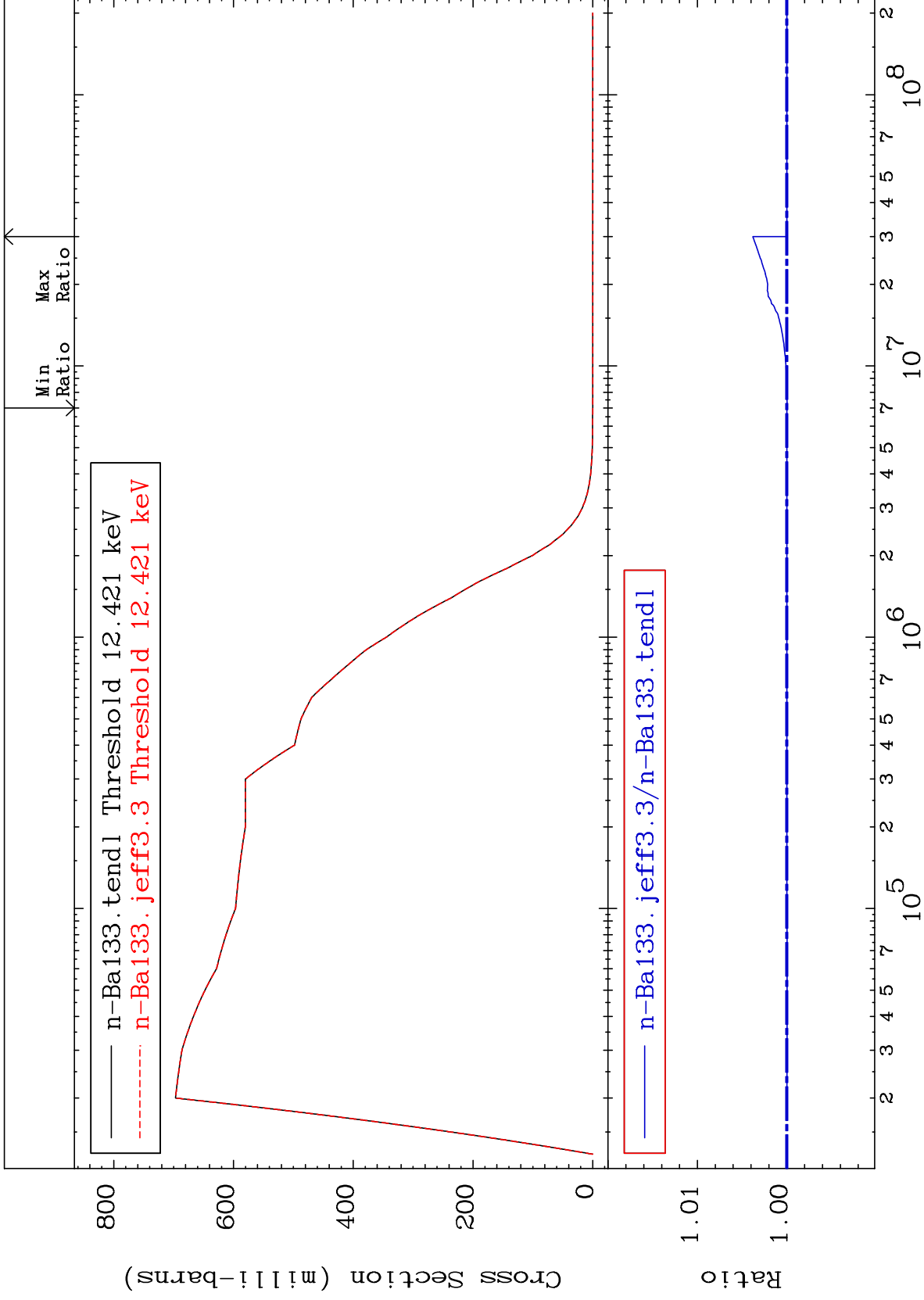
56-Ba-133
To 9999. %



MAT 5634

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

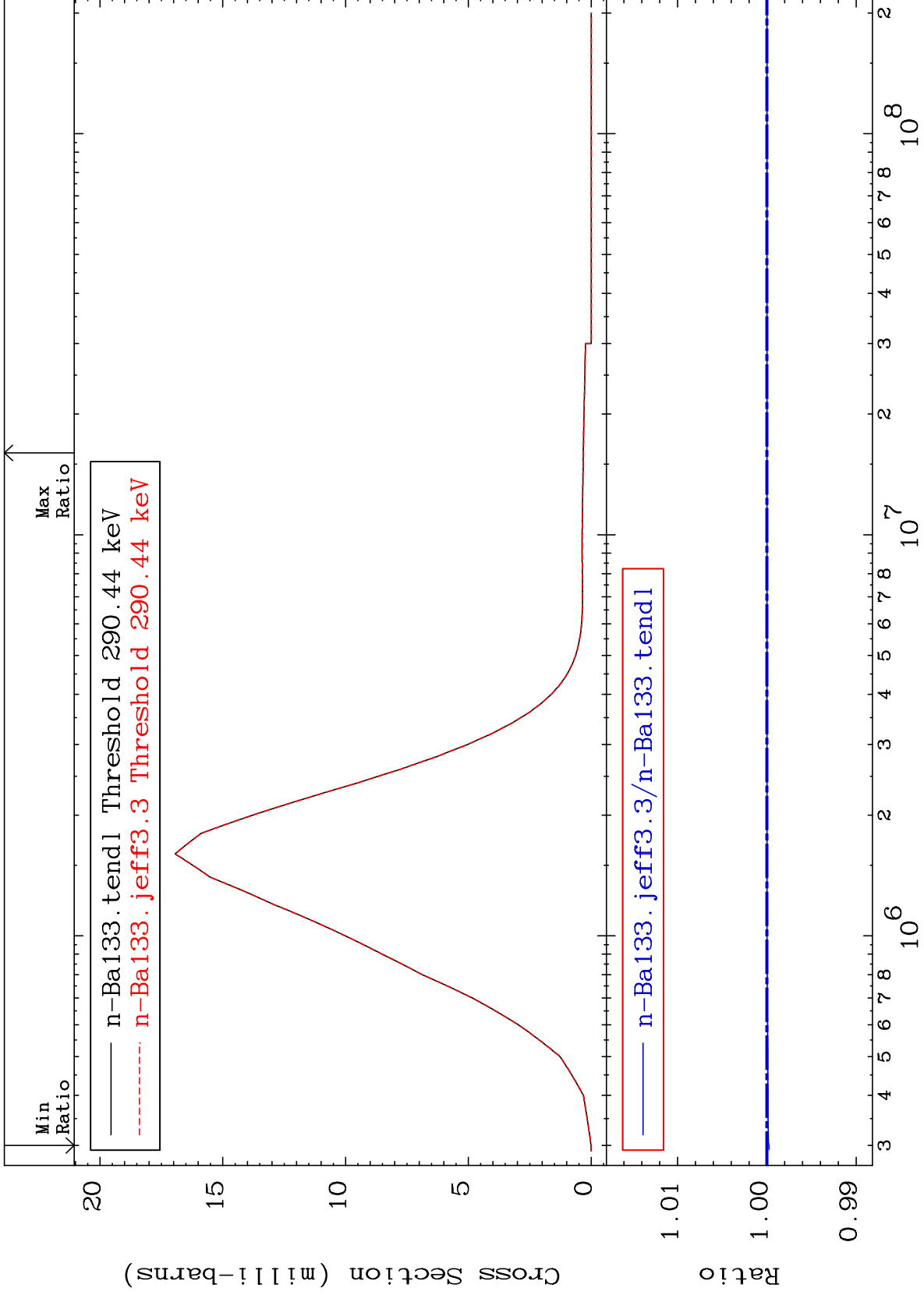
56-Ba-133
-0.003 To 0.380 %



MAT 5634

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

56-Ba-133
-0.024 To 0.000 %



20

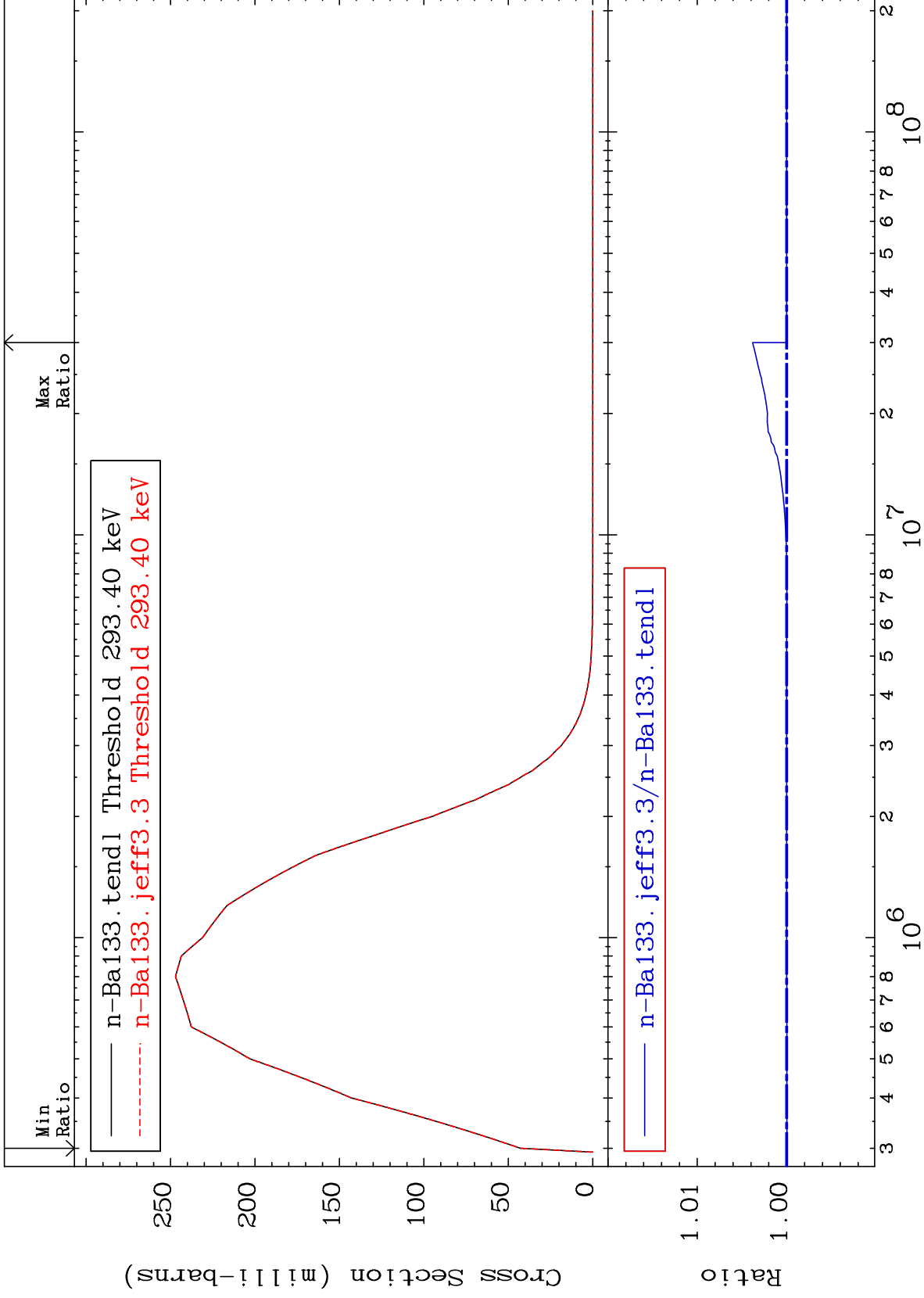
Incident Energy (eV)

56-Ba-133

MAT 5634

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

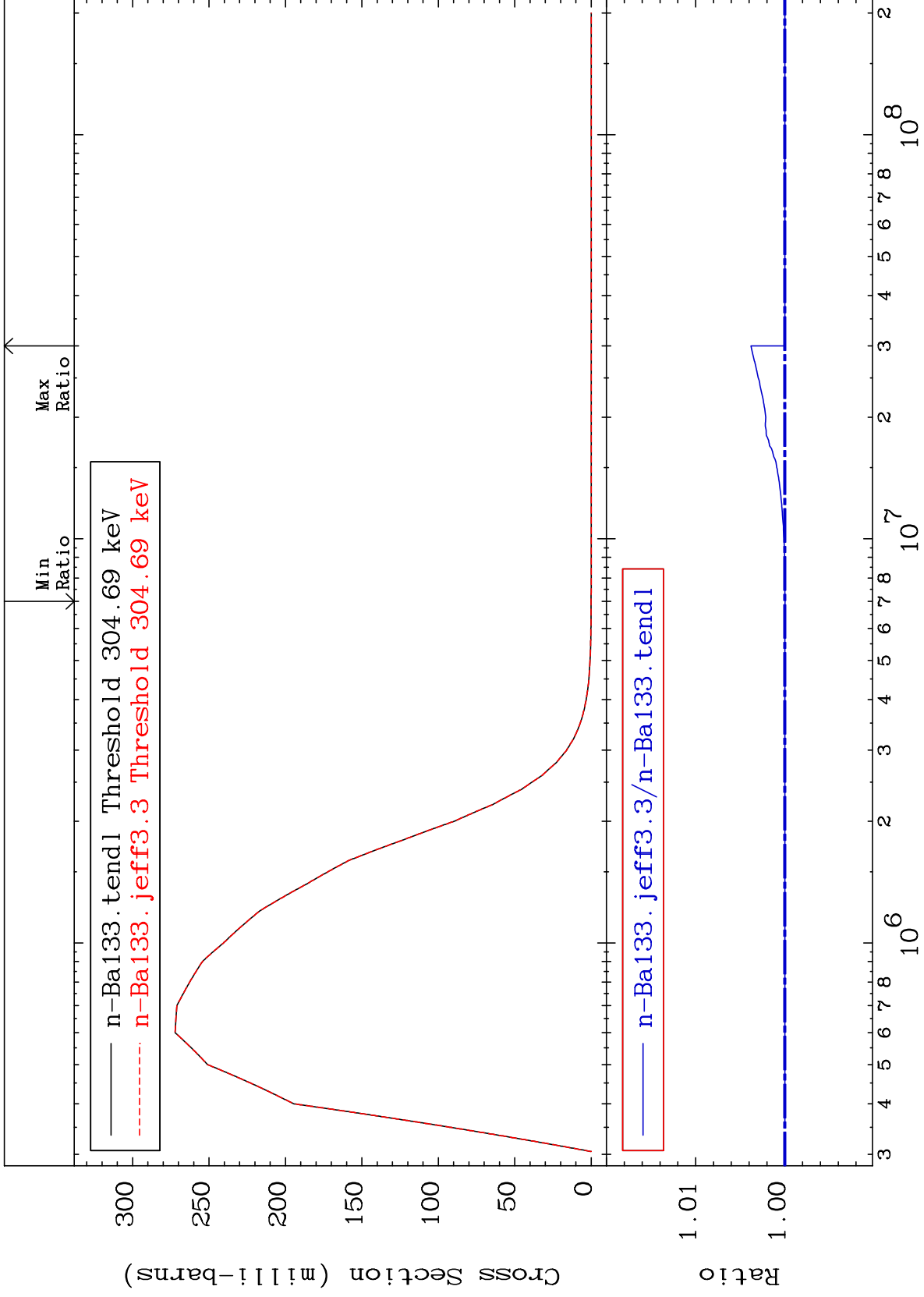
56-Ba-133
-0.005 To 0.380 %



MAT 5634

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

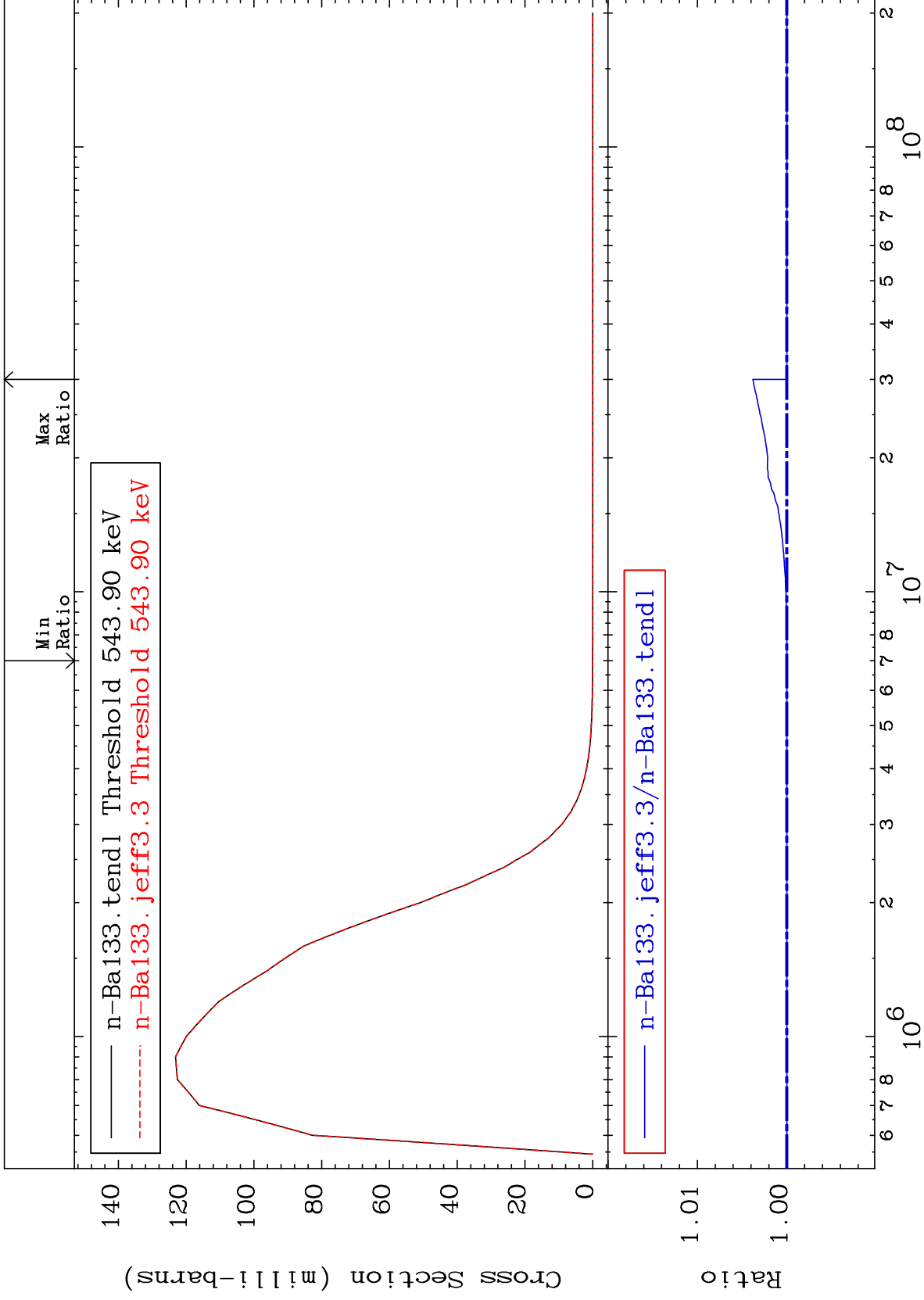
56-Ba-133
-0.003 To 0.380 %



MAT 5634

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

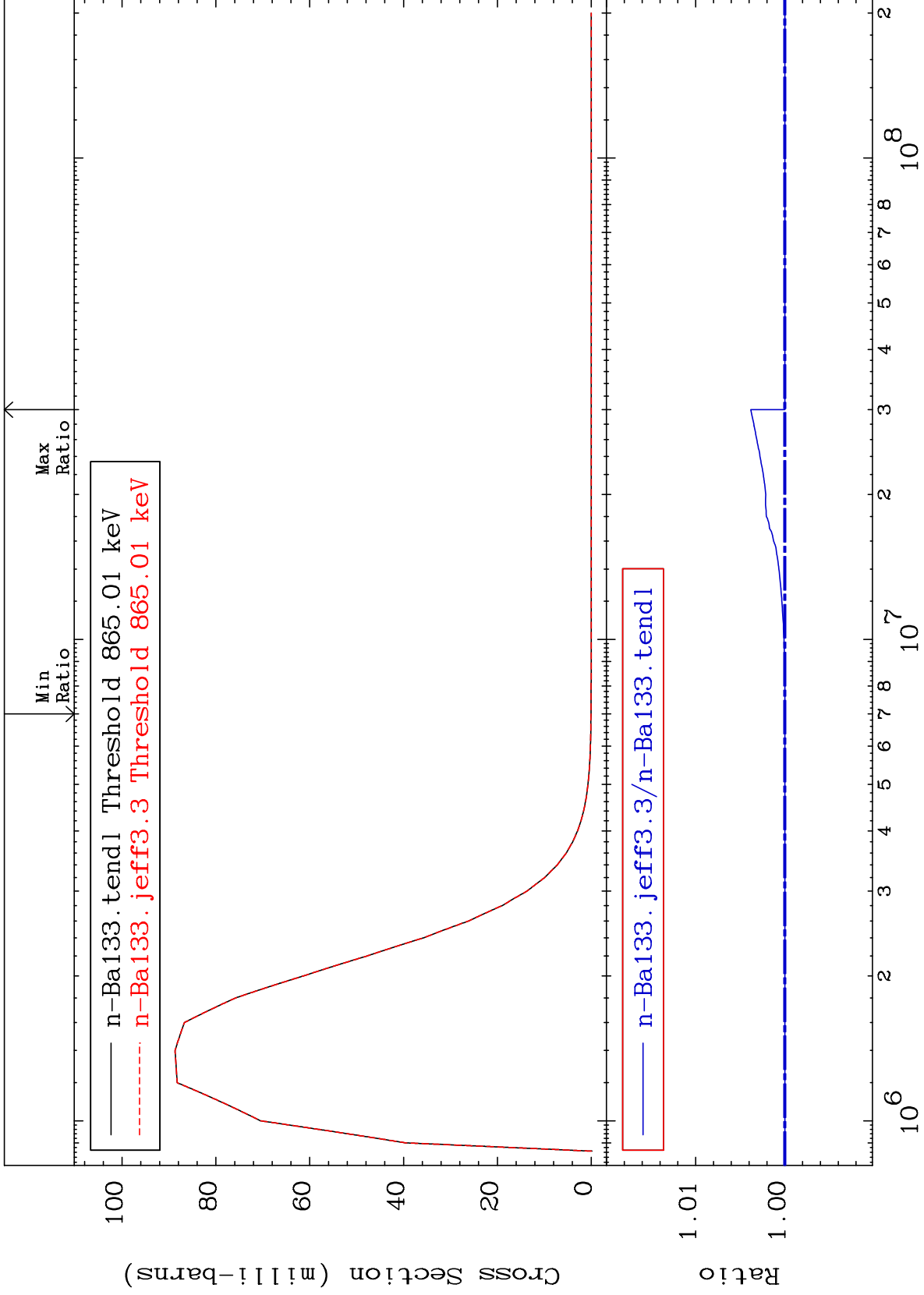
56-Ba-133
-0.002 To 0.380 %



MAT 5634

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

56-Ba-133
-0.003 To 0.381 %



25

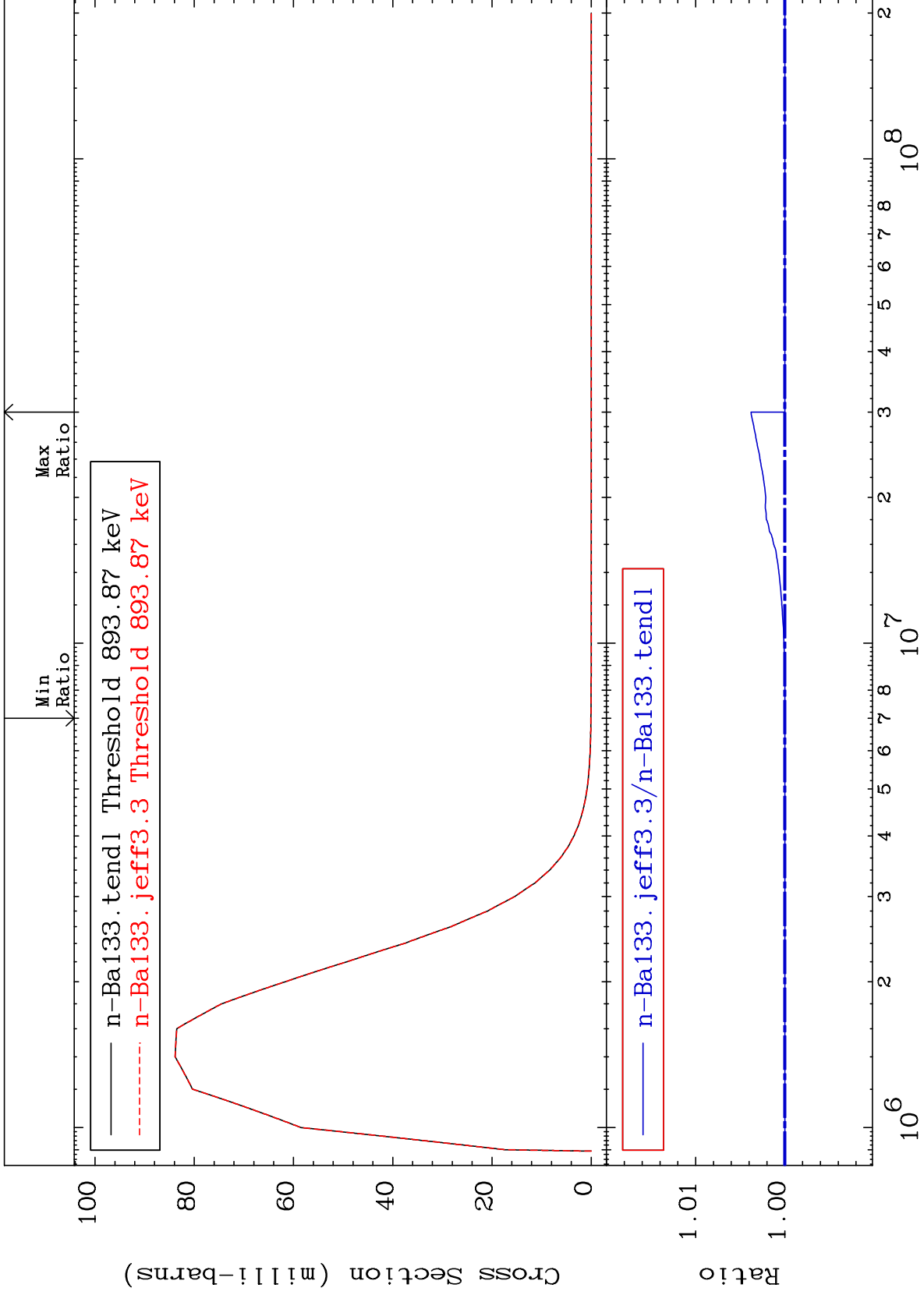
Incident Energy (eV)

56-Ba-133

MAT 5634

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

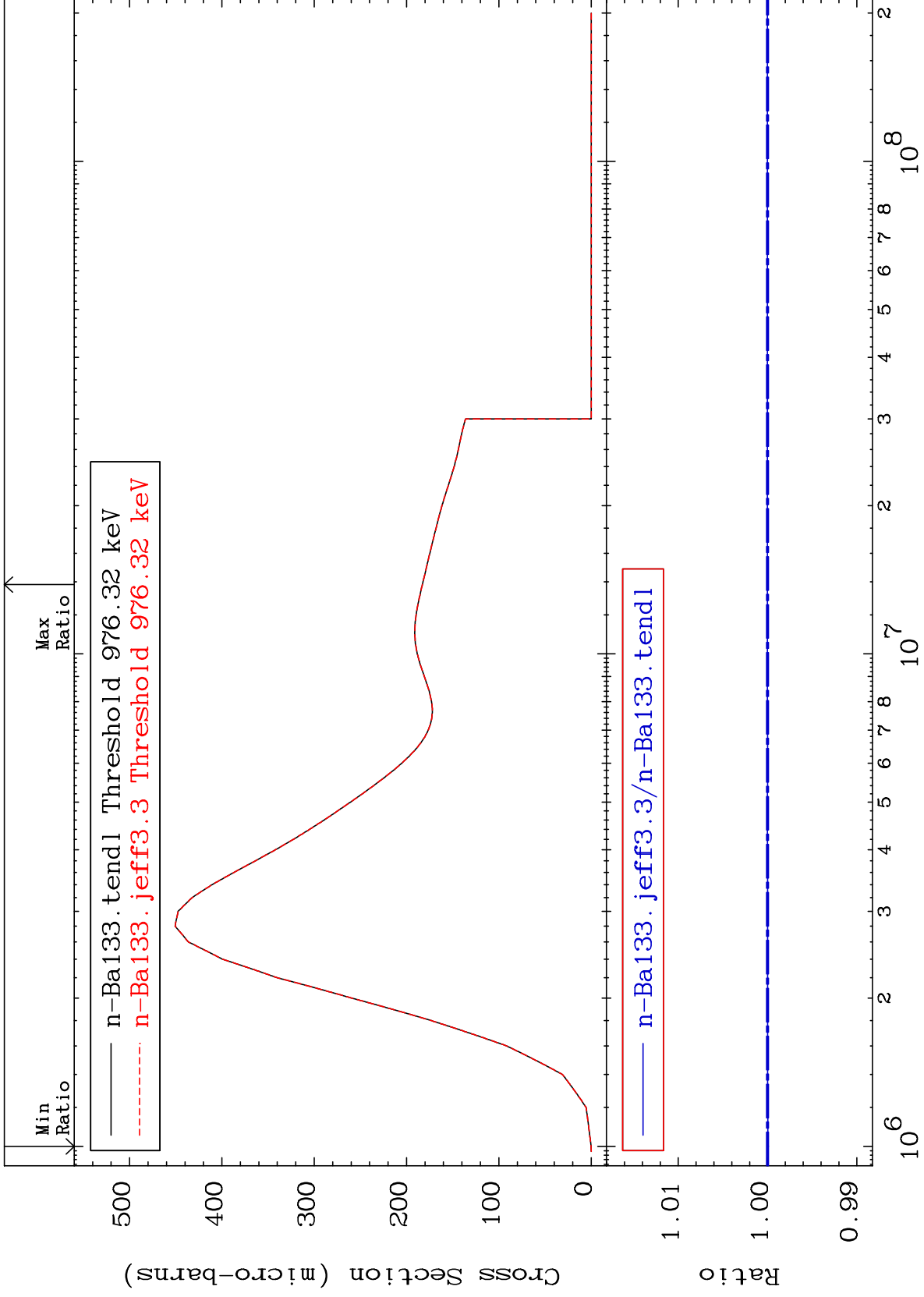
56-Ba-133
-0.003 To 0.380 %



MAT 5634

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

56-Ba-133
-0.010 To 0.000 %



27

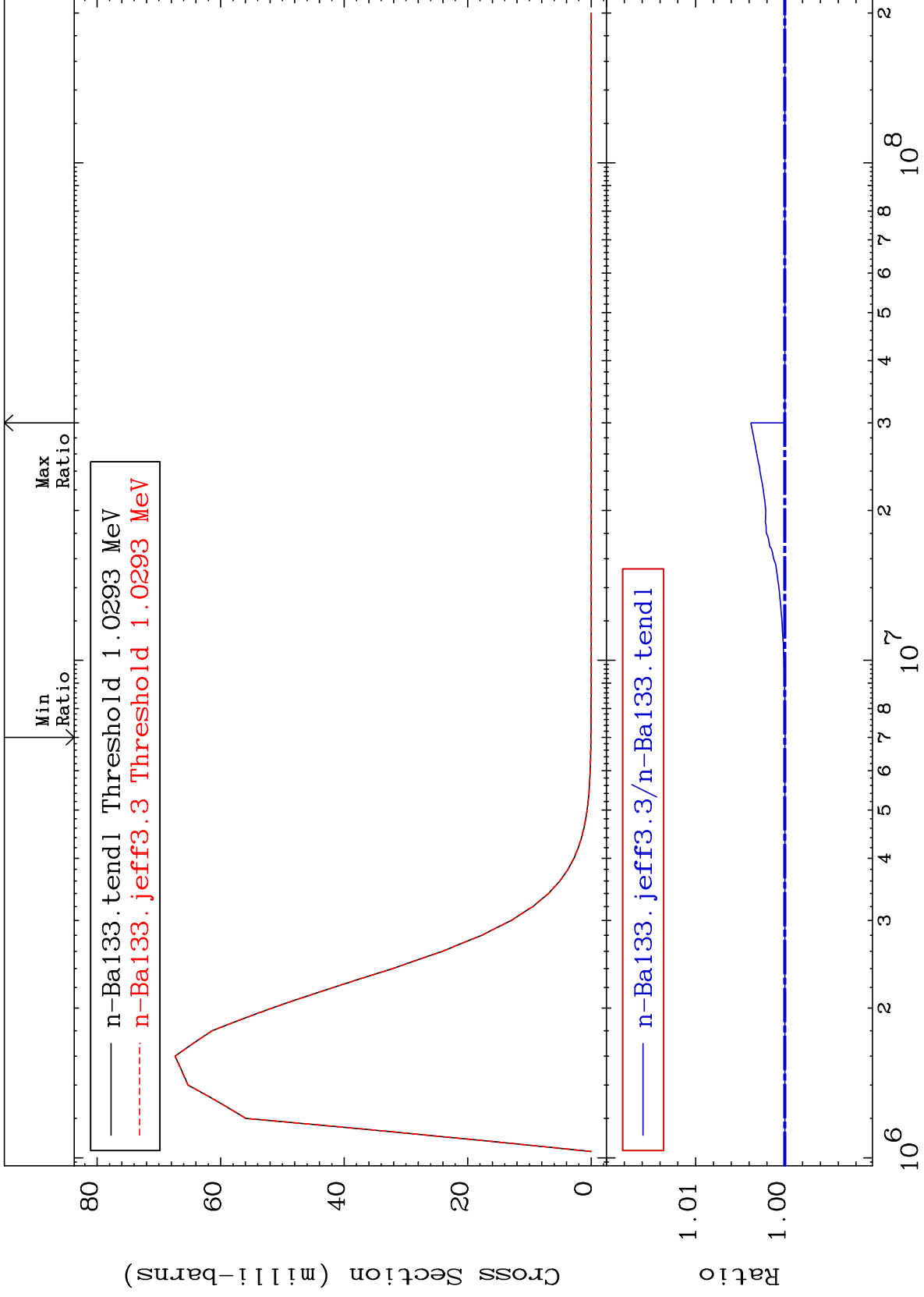
Incident Energy (eV)

56-Ba-133

MAT 5634

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

56-Ba-133
-0.003 To 0.380 %



28

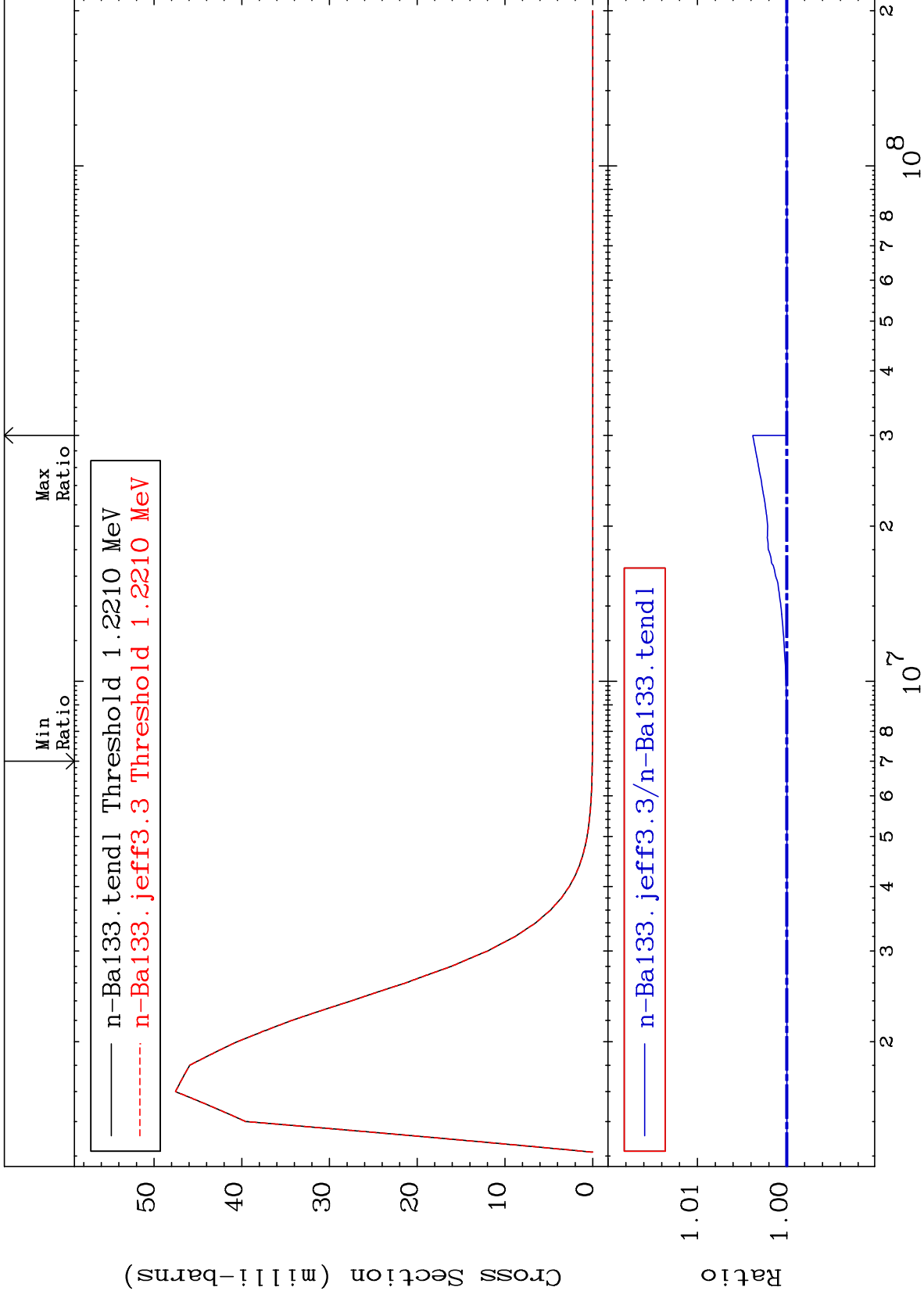
Incident Energy (eV)

56-Ba-133

MAT 5634

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

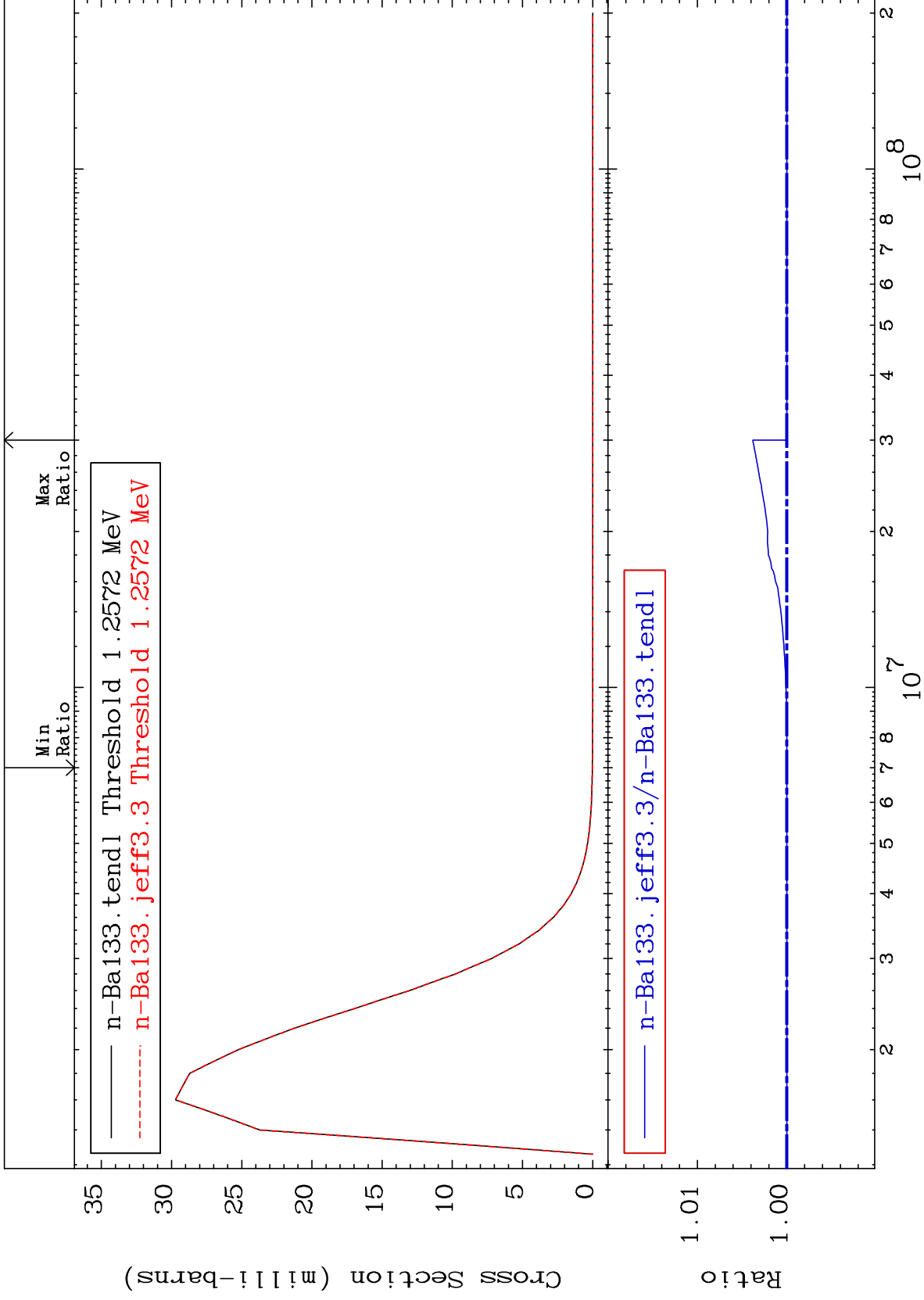
56-Ba-133
-0.003 To 0.380 %



MAT 5634

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

56-Ba-133
-0.003 To 0.381 %



30

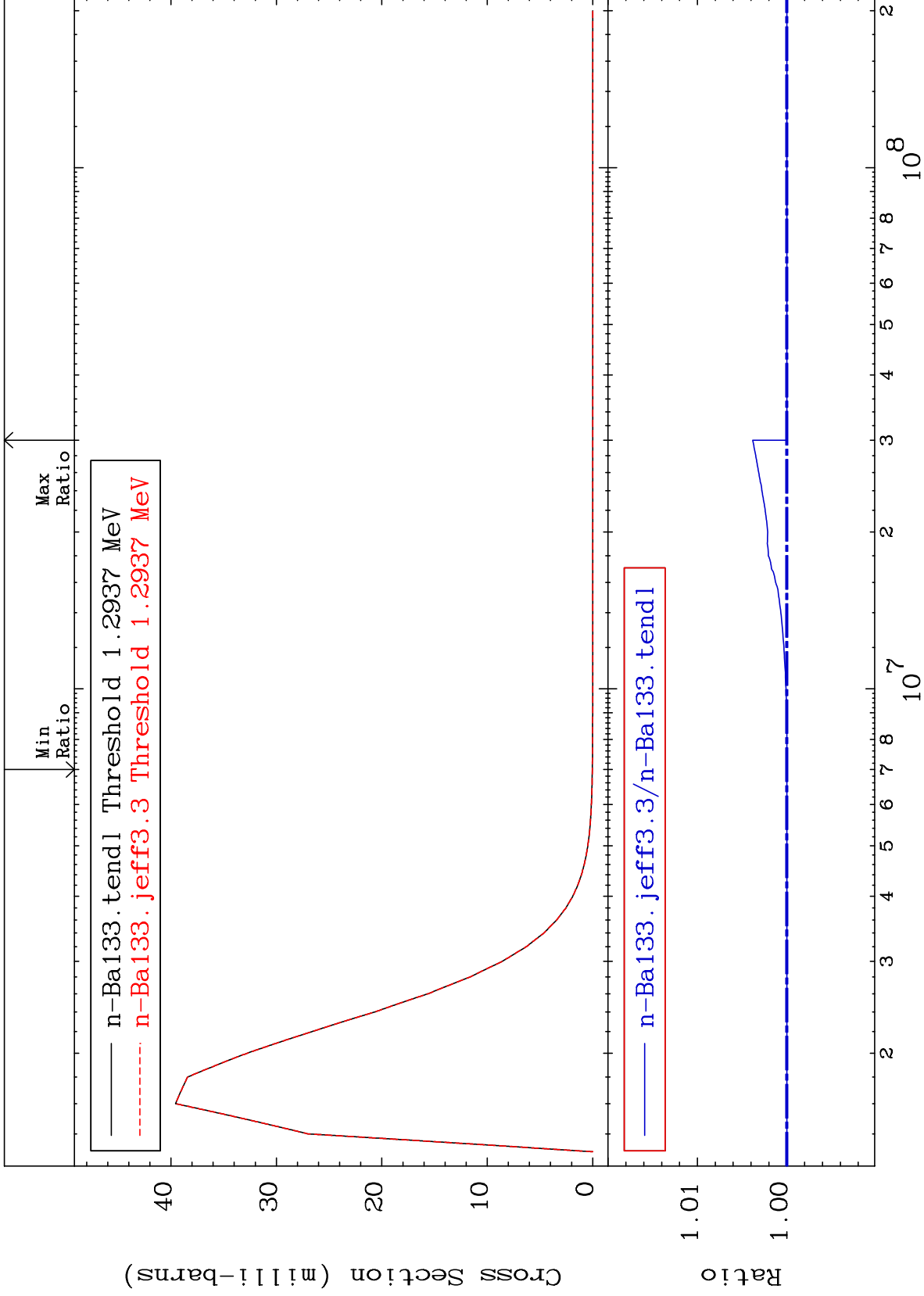
Incident Energy (eV)

56-Ba-133

MAT 5634

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

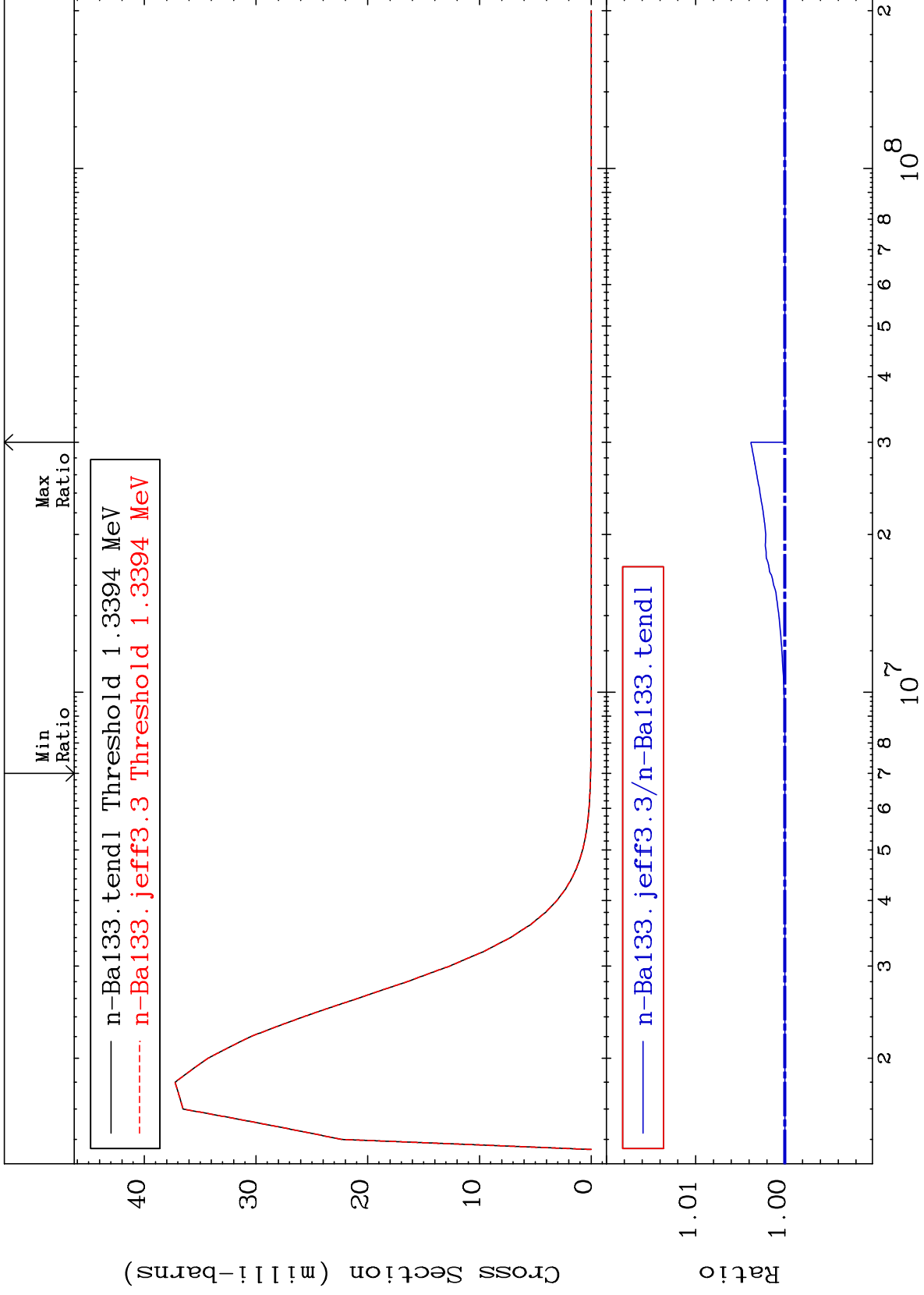
56-Ba-133
-0.003 To 0.381 %

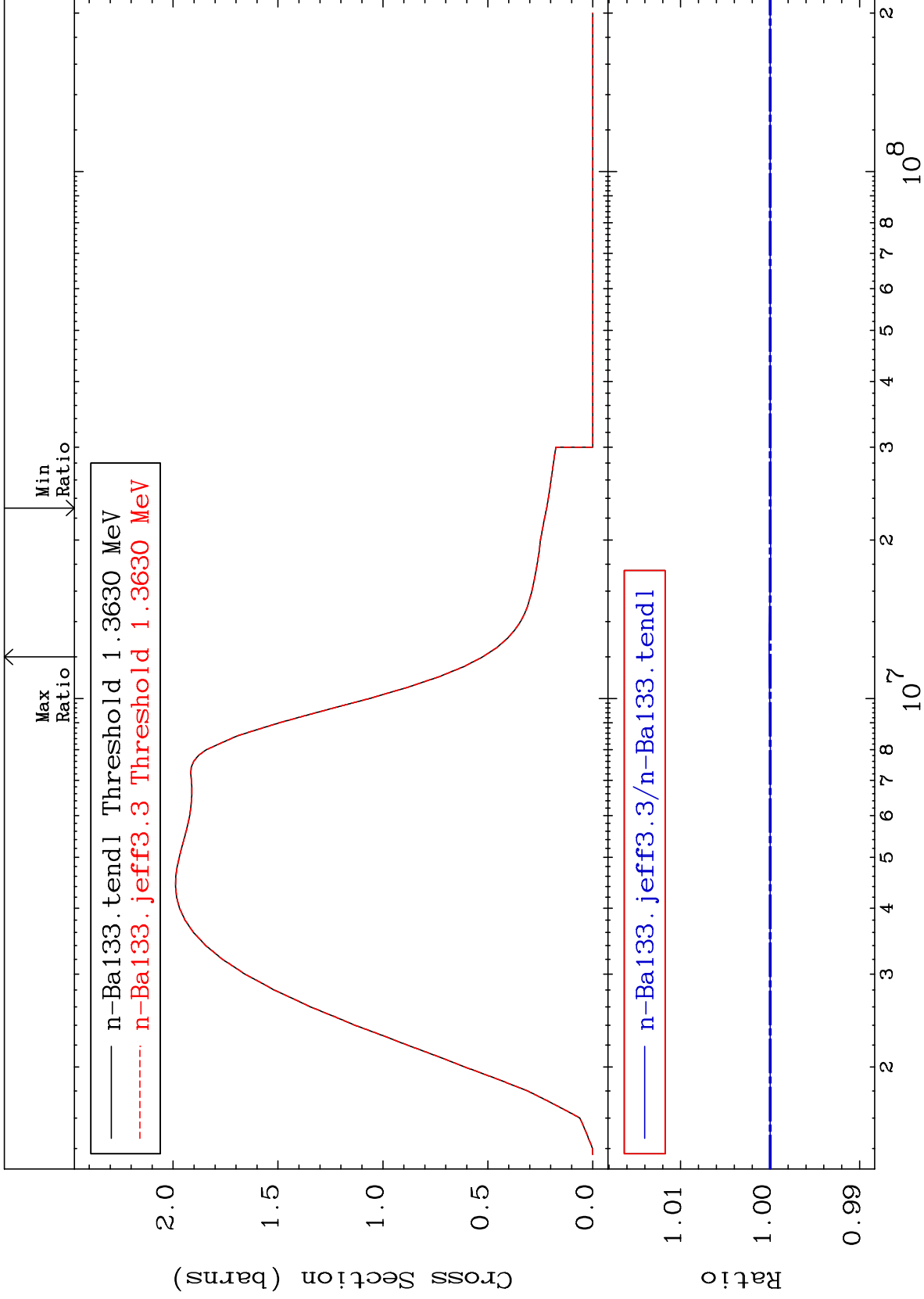


MAT 5634

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

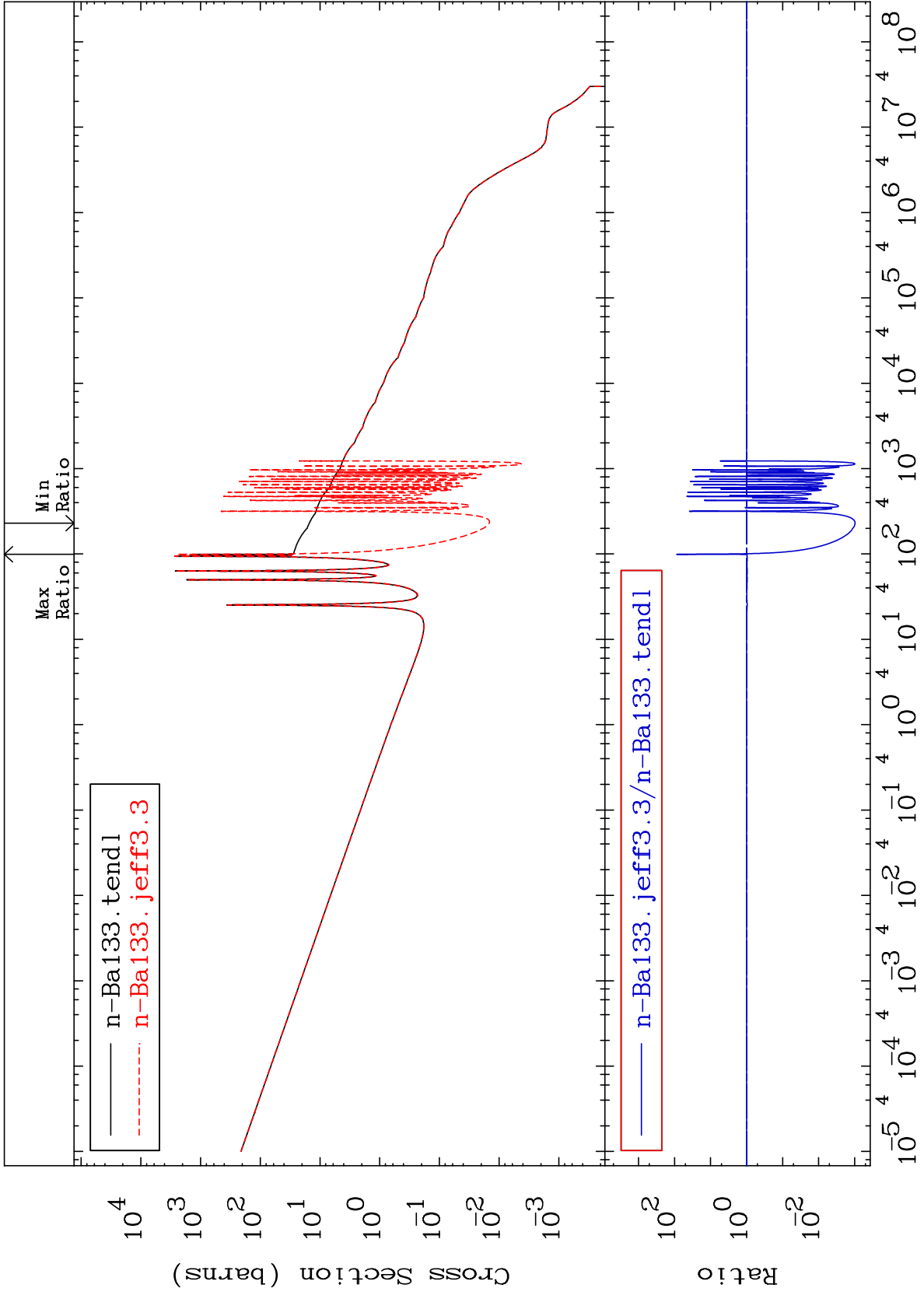
56-Ba-133
-0.003 To 0.381 %





MAT 5634

(n, γ)
Cross Section
56-Ba-133
-99.90 To 8486. %

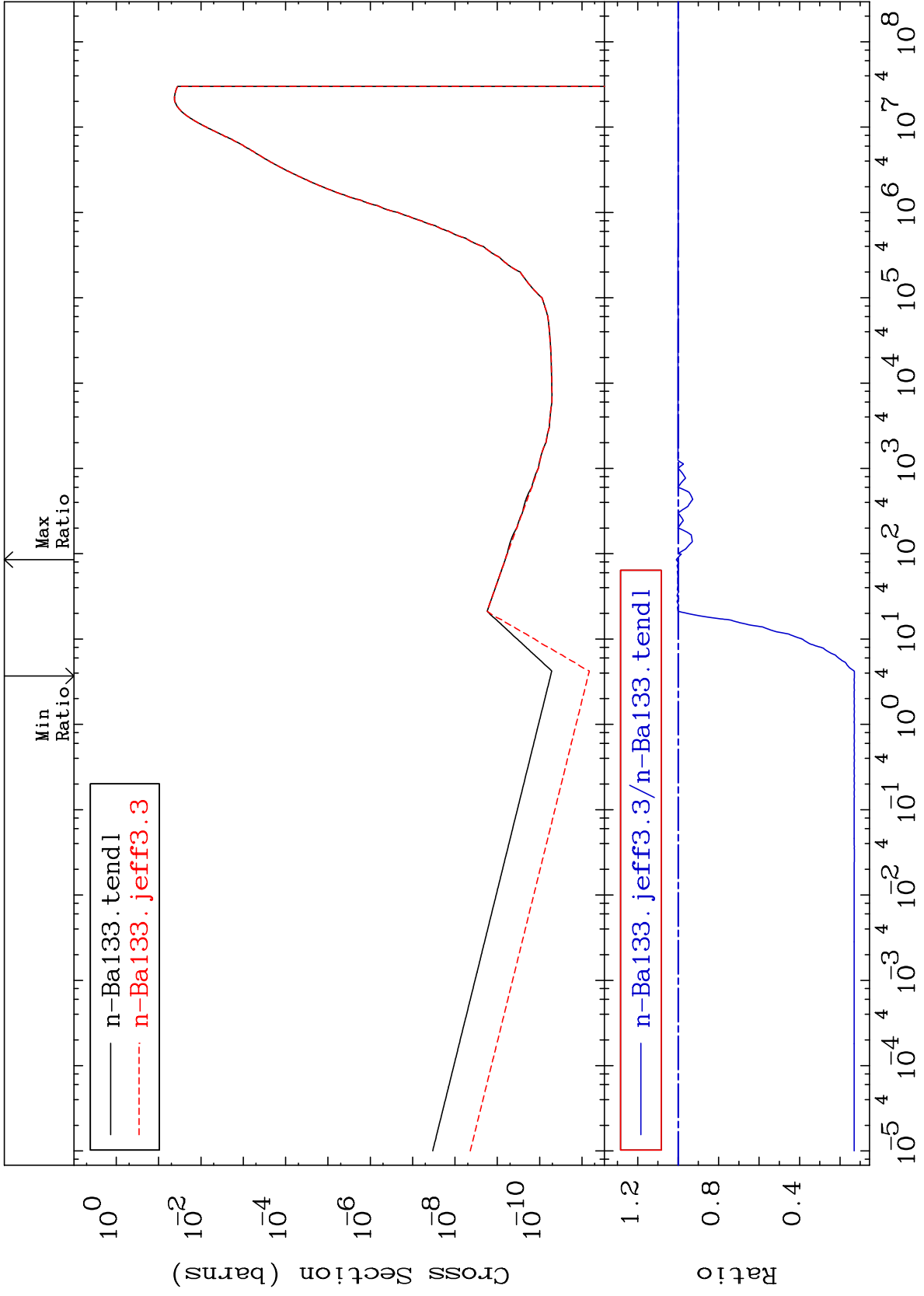


MAT 5634

56-Ba-133

-87.09 To 0.876 %

(n,p)
Cross Section



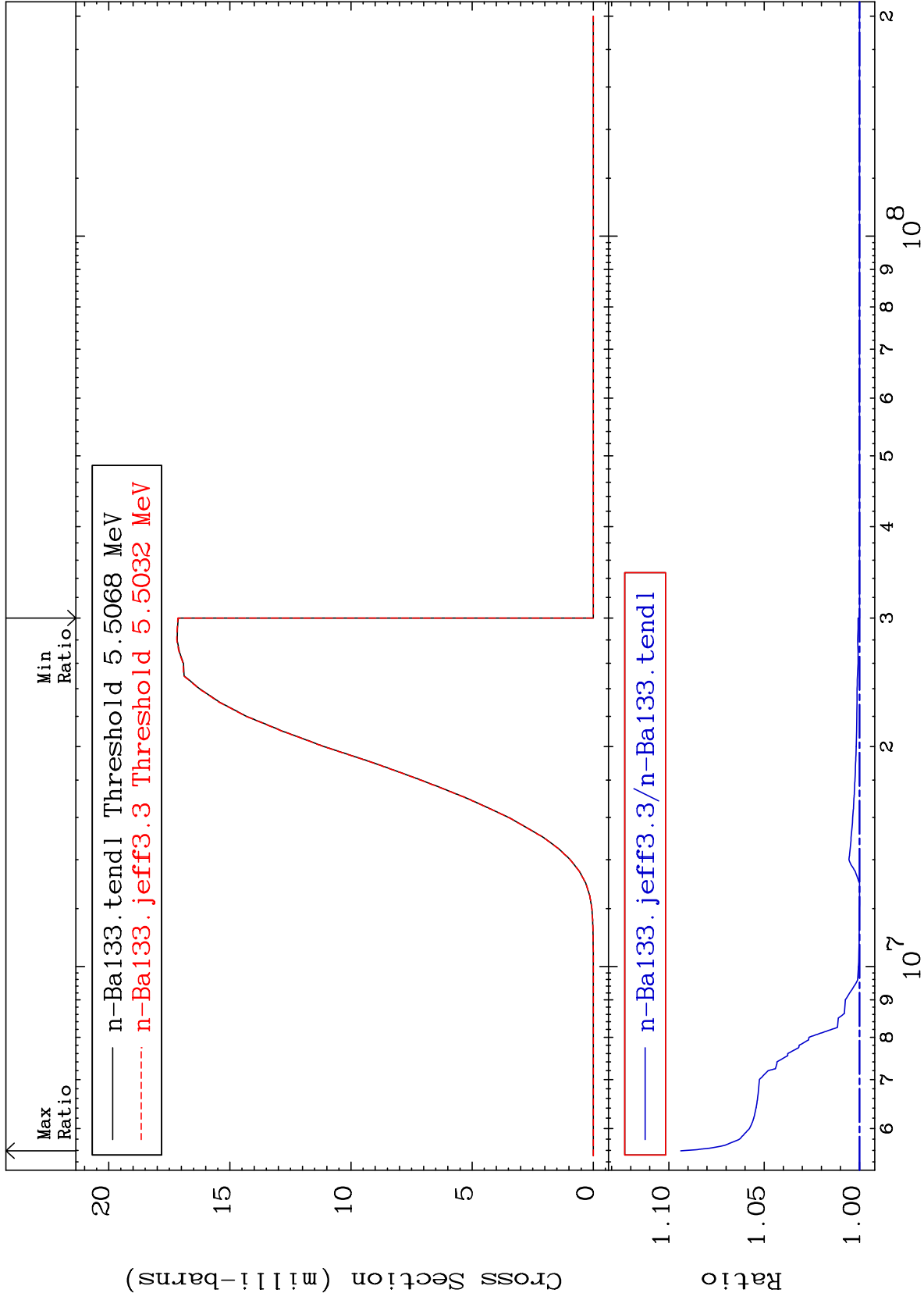
35

Incident Energy (eV)

56-Ba-133

MAT 5634

(n, d)
Cross Section
56-Ba-133
To 9.376 %
0.000



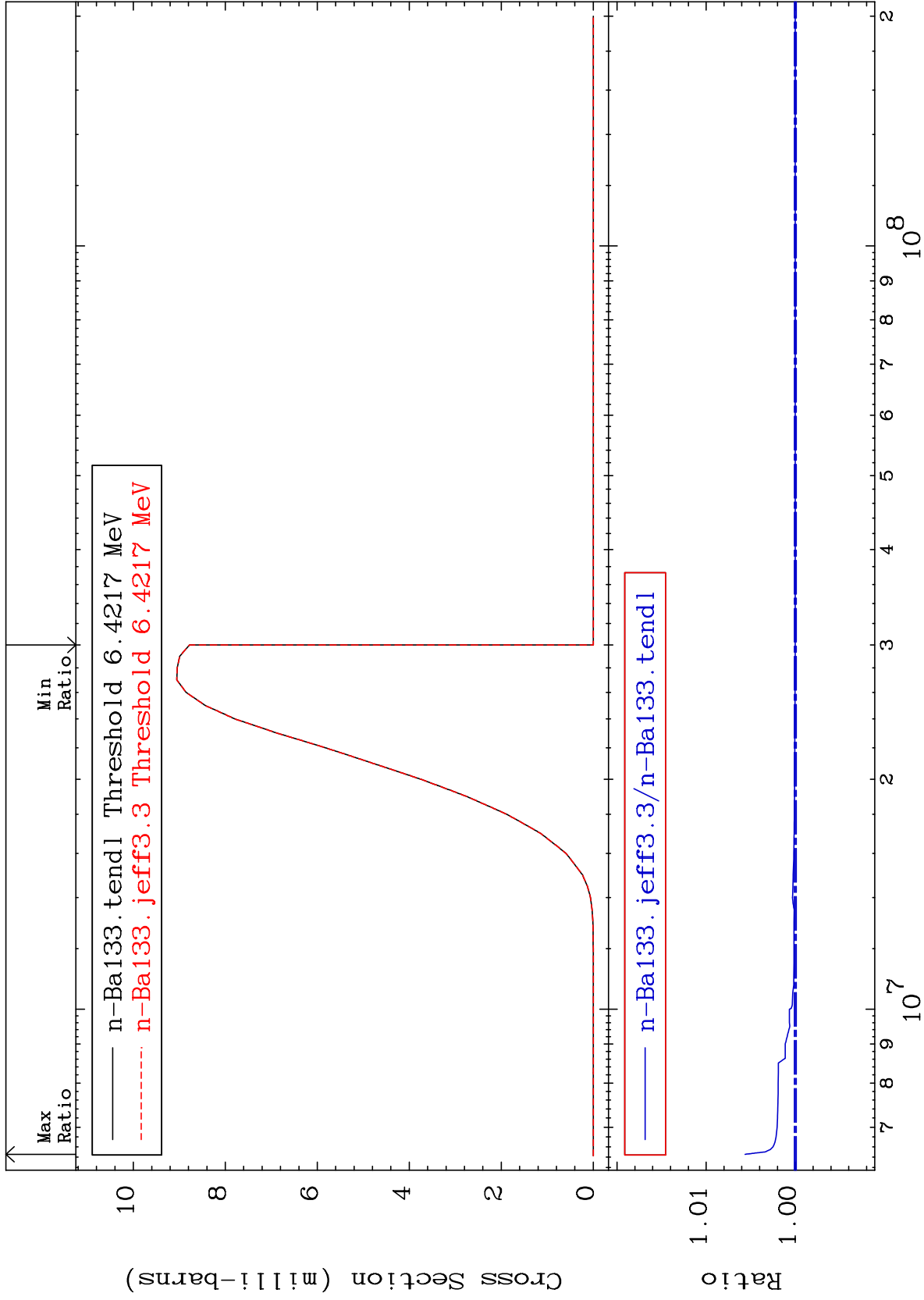
36

56-Ba-133

MAT 5634

56-Ba-133

(n, t)
Cross Section
0.000 To 0.564 %



37

Incident Energy (eV)

56-Ba-133

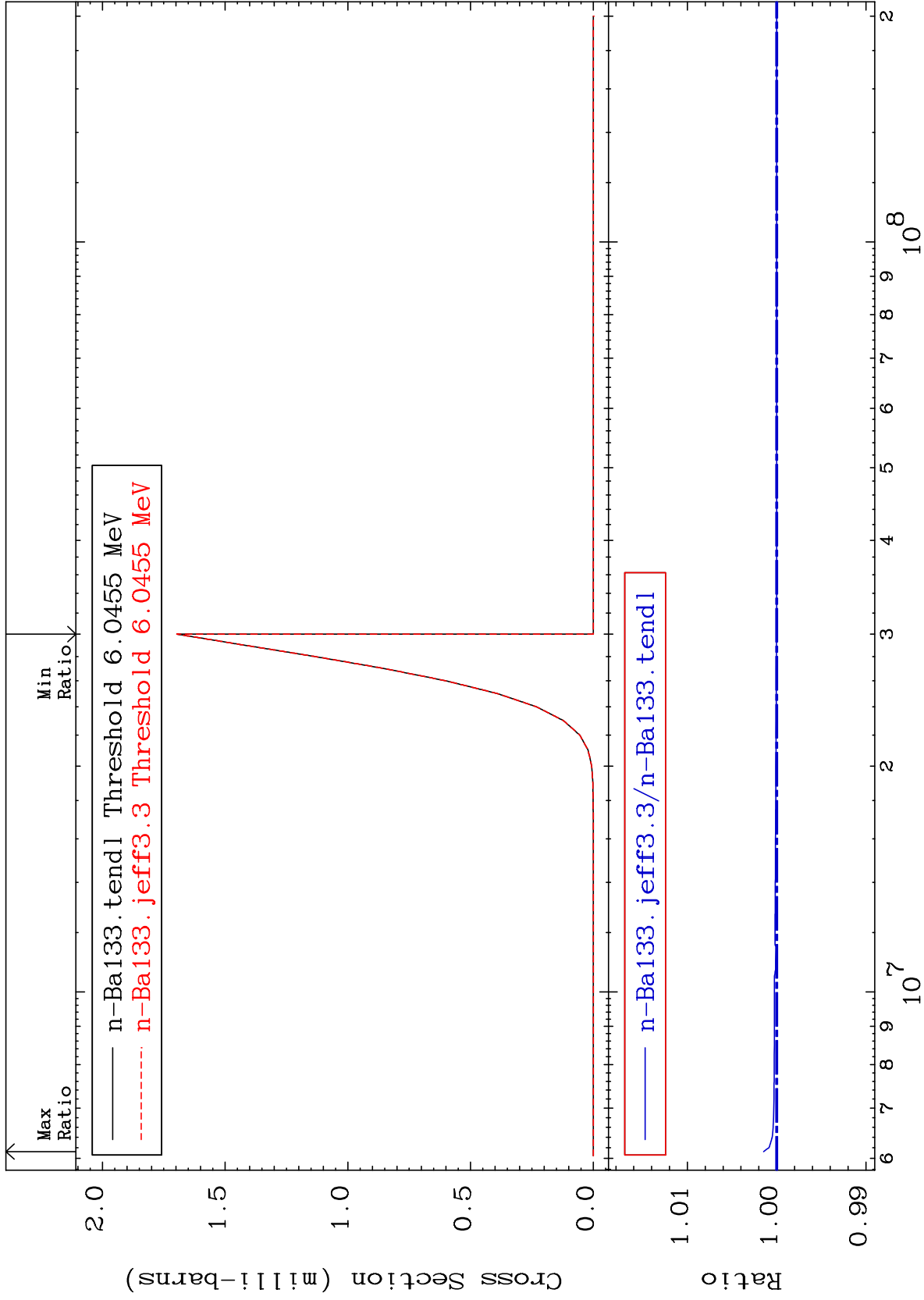
MAT 5634

(n, He-3)

56-Ba-133

Cross Section

0.000 To 0.146 %



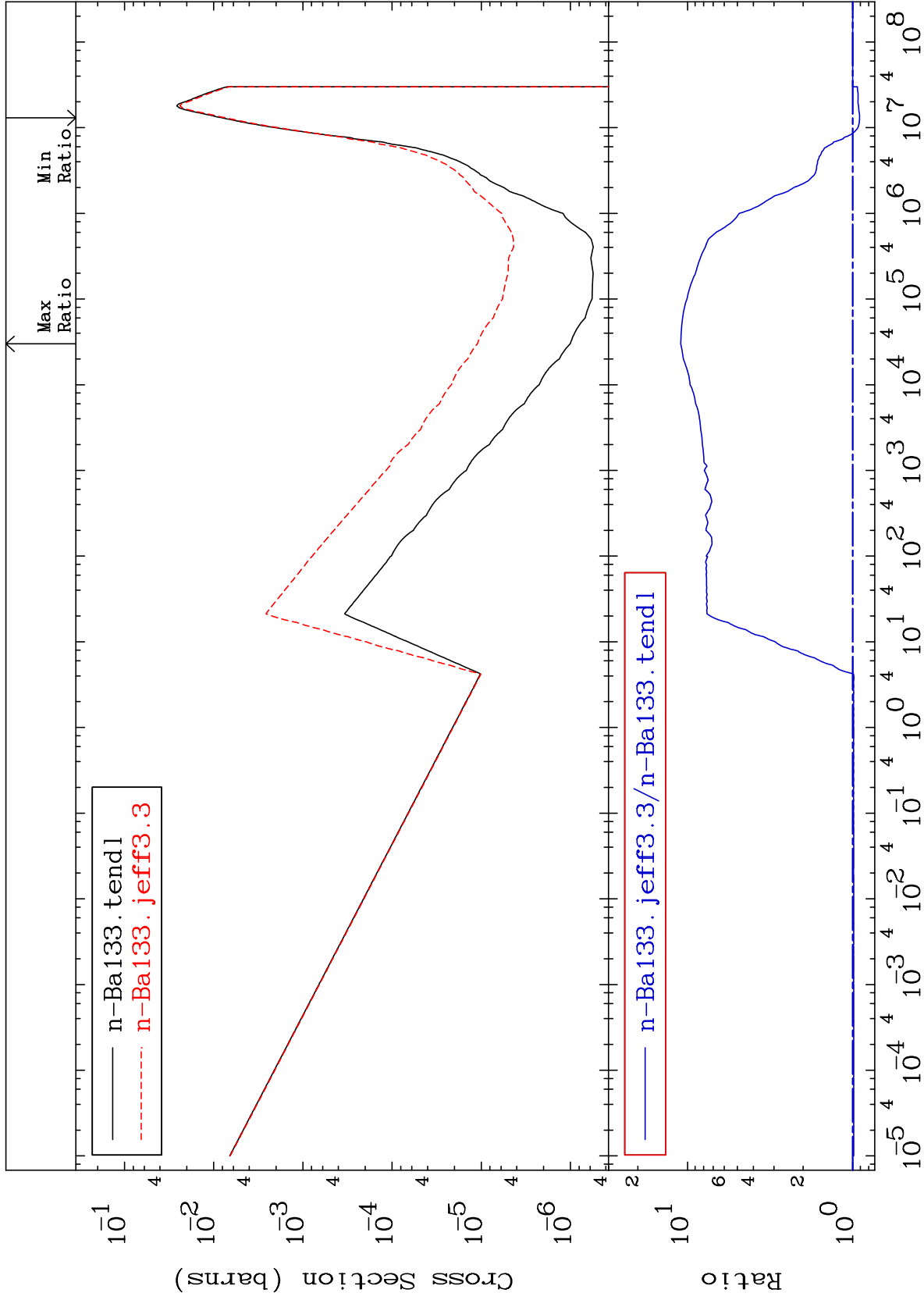
MAT 5634

(n, α)

56-Ba-133

Cross Section

-9.035 To 999.6 %



39

Incident Energy (eV)

56-Ba-133

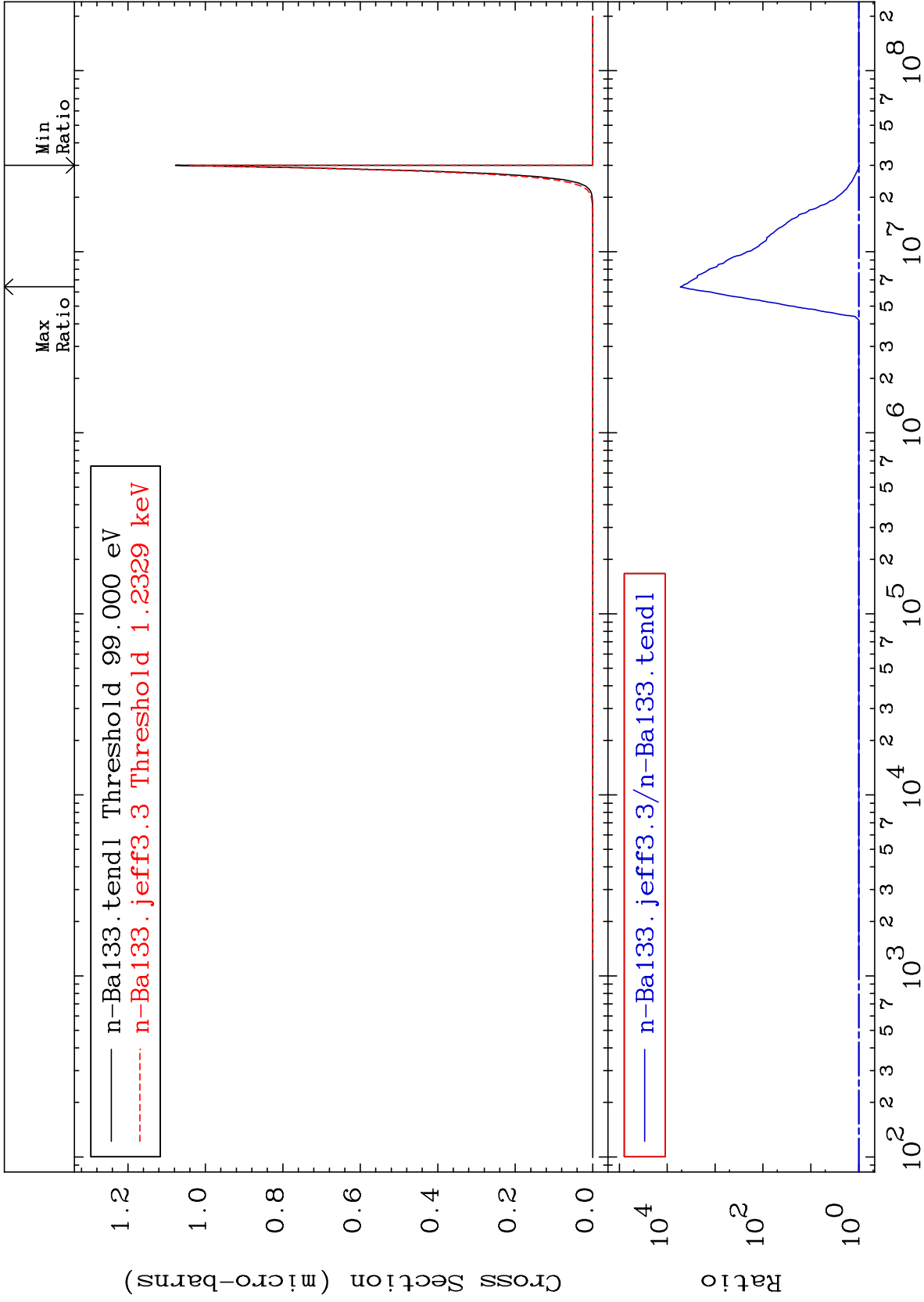
MAT 5634

(n,2α)

56-Ba-133

Cross Section

-3.393 To 9999. %



Incident Energy (eV)

56-Ba-133

40

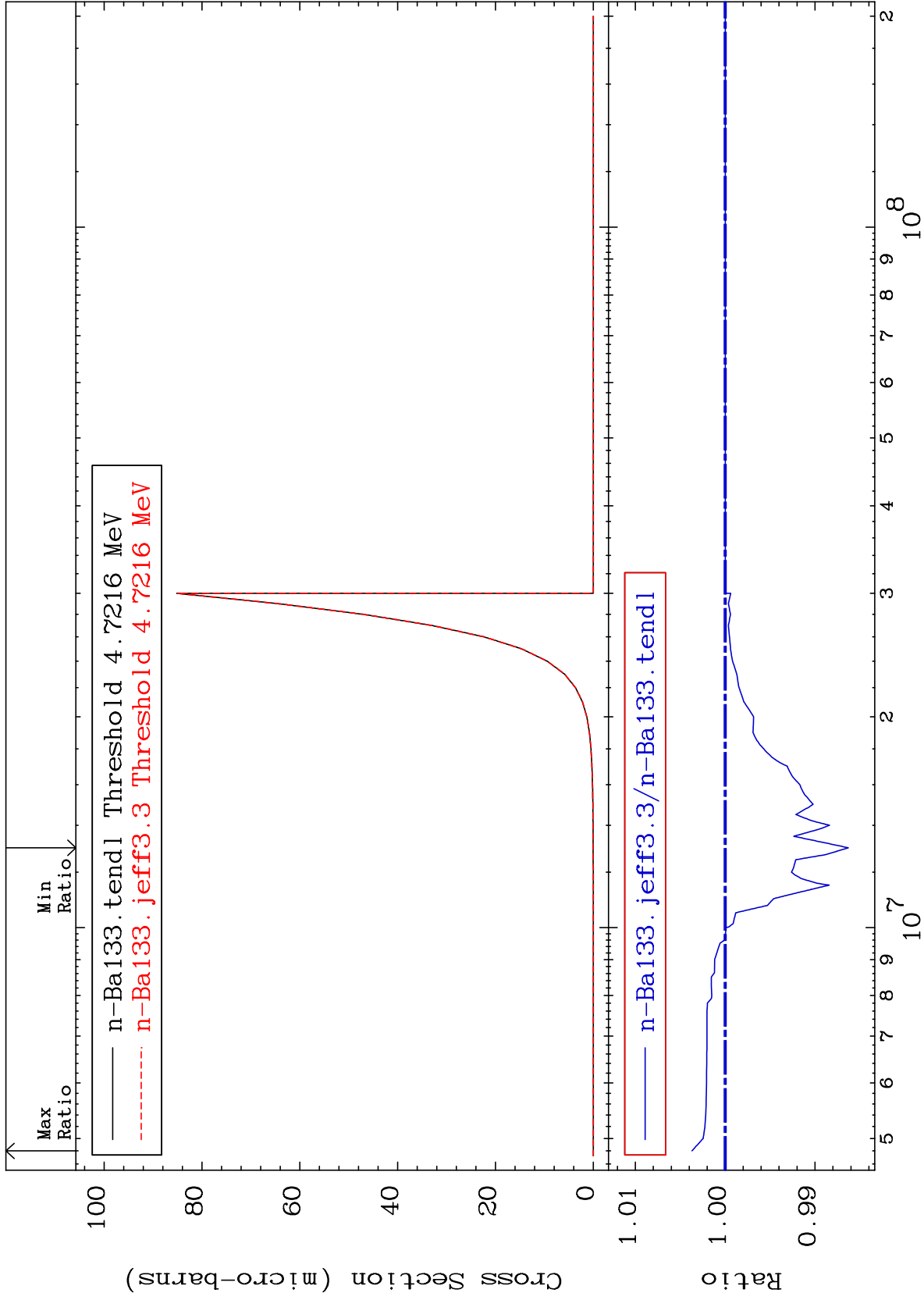
MAT 5634

(n,2p)

56-Ba-133

Cross Section

-1.371 To 0.370 %



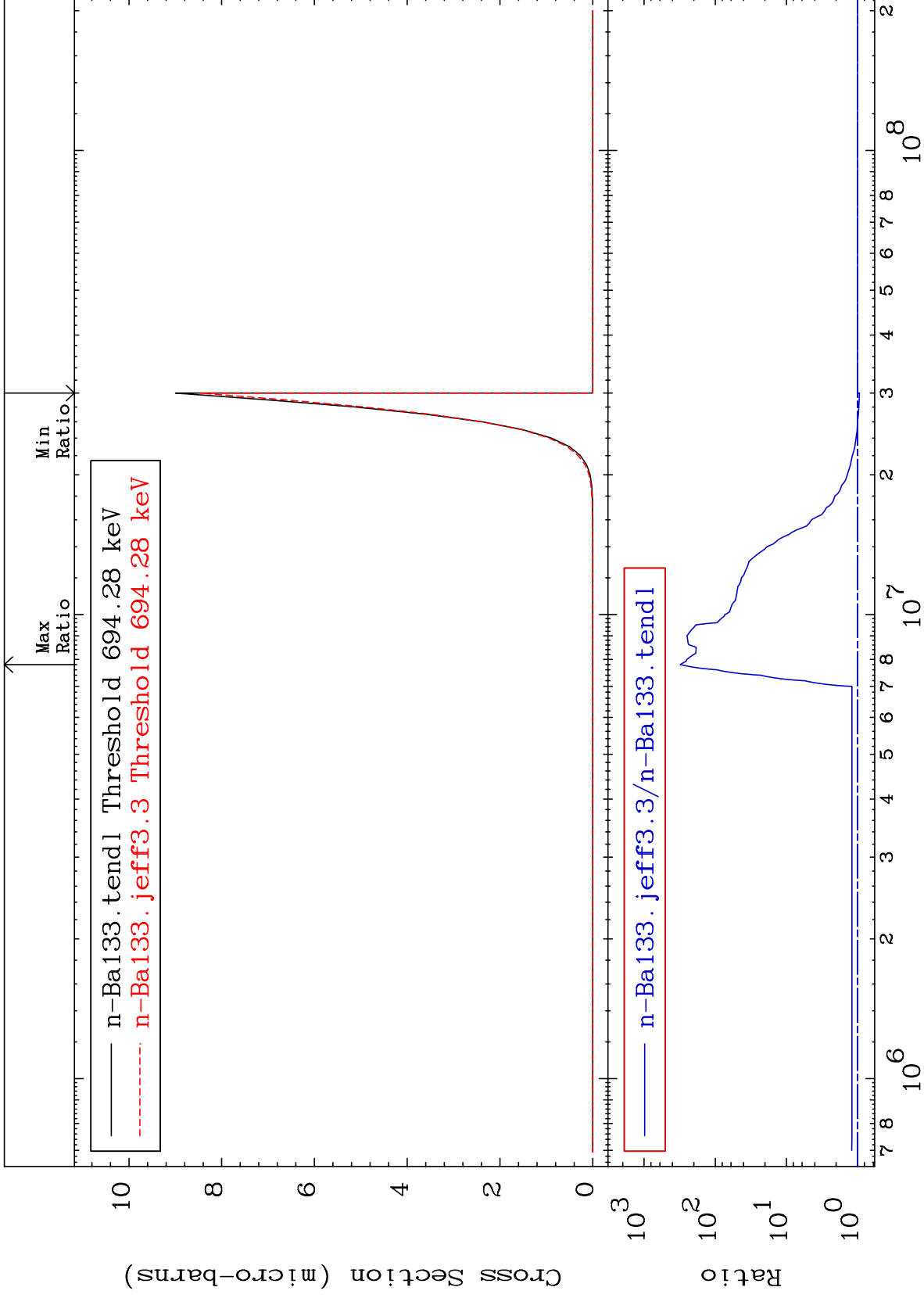
MAT 5634

(n, p) α

56-Ba-133

Cross Section

-5.892 To 9999. %



MAT 5634

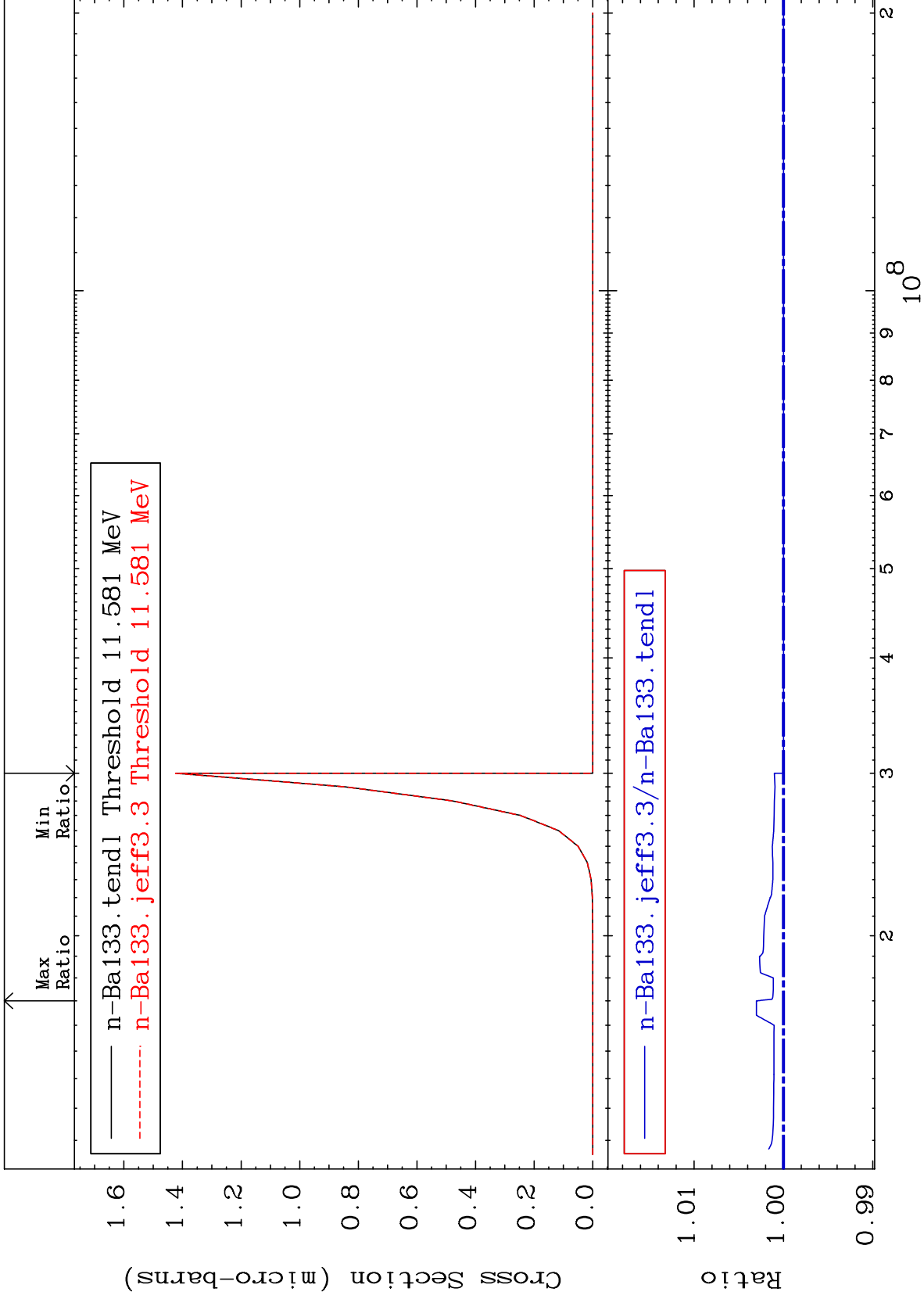
(n, p) d

56-Ba-133

Cross Section

0.000

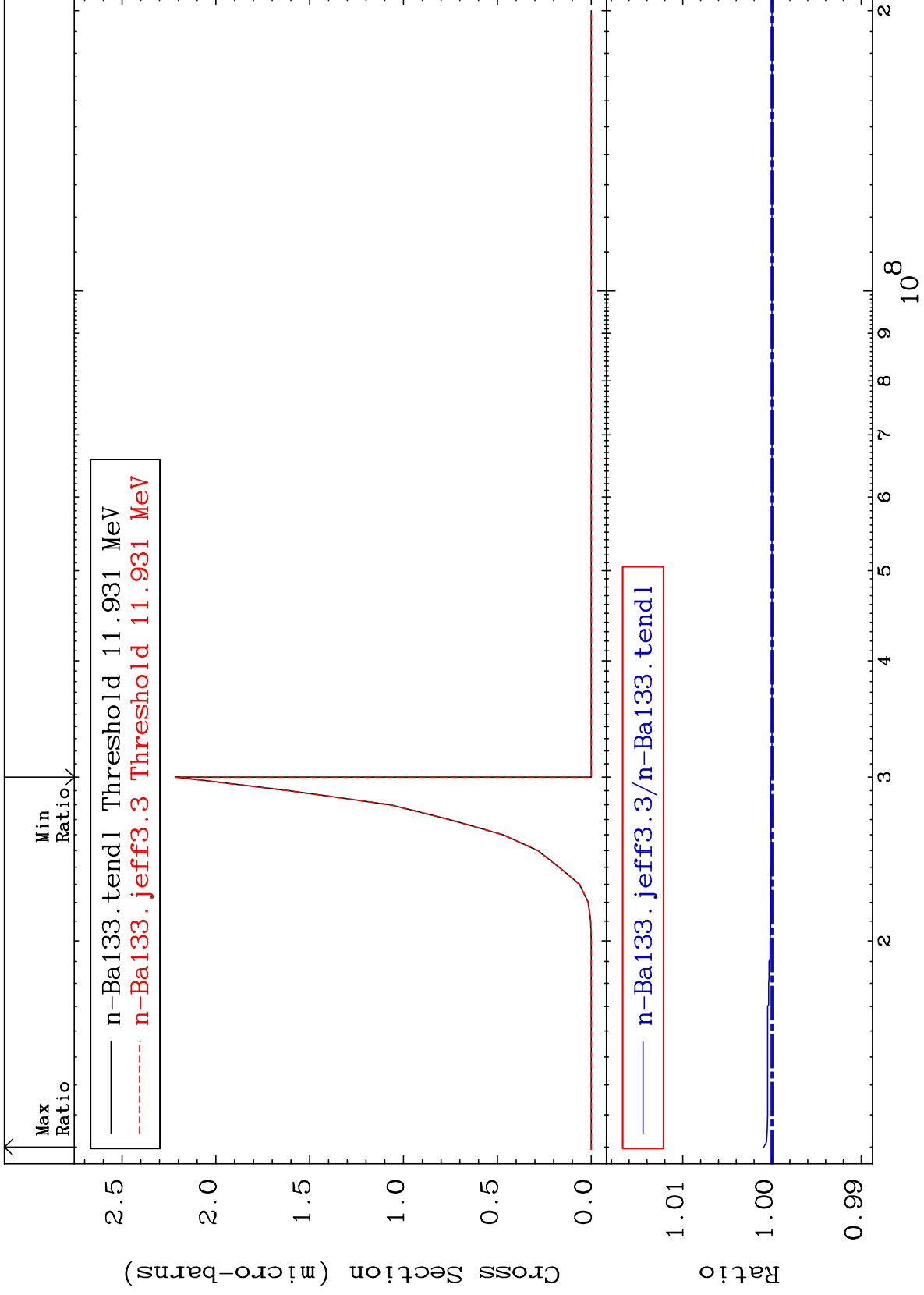
To 0.304 %



MAT 5634

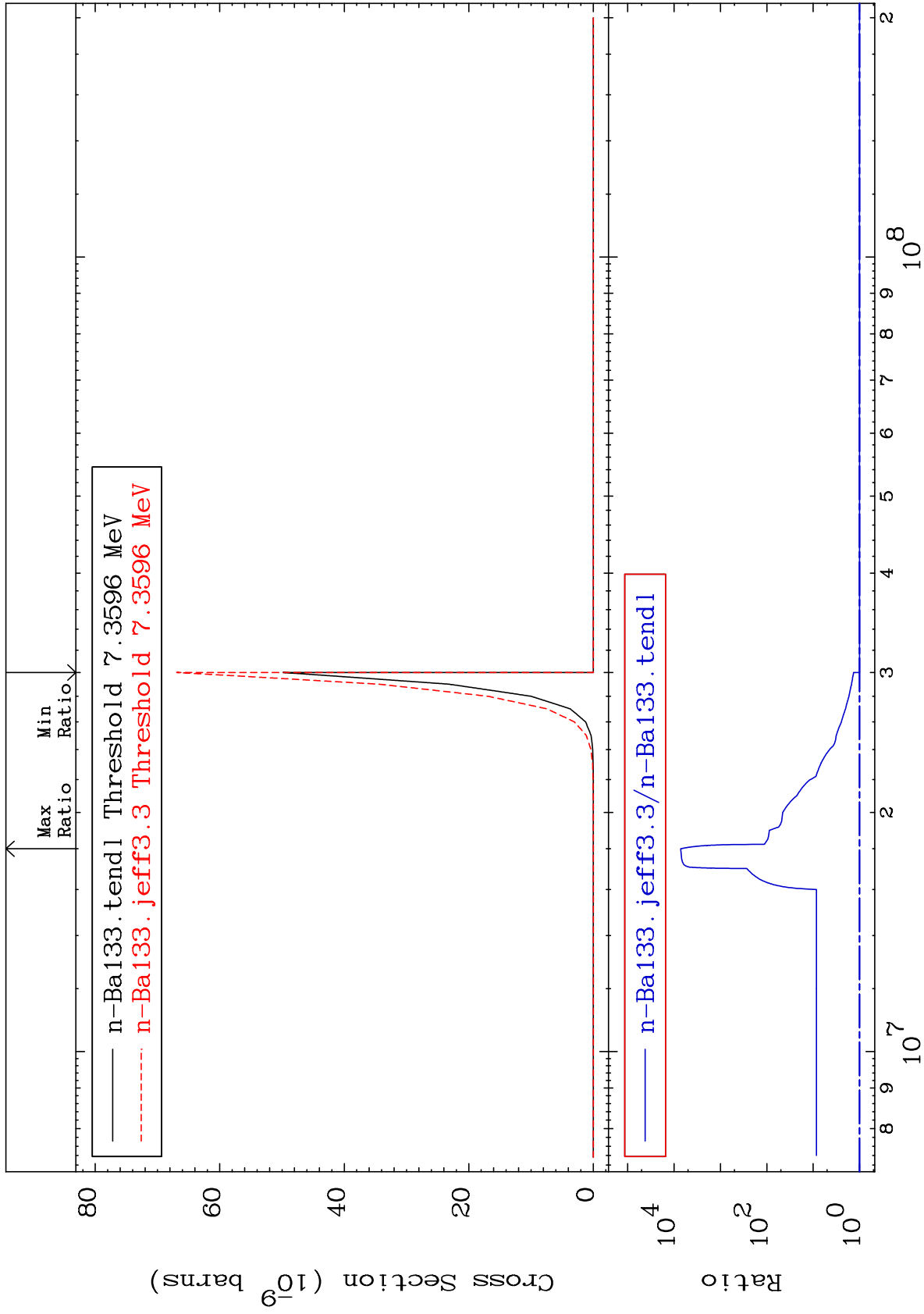
(n,p) t
Cross Section

56-Ba-133
0.000 To 0.091 %



MAT 5634

(n,d) α Cross Section
56-Ba-133
0.000 To 9999. %



45

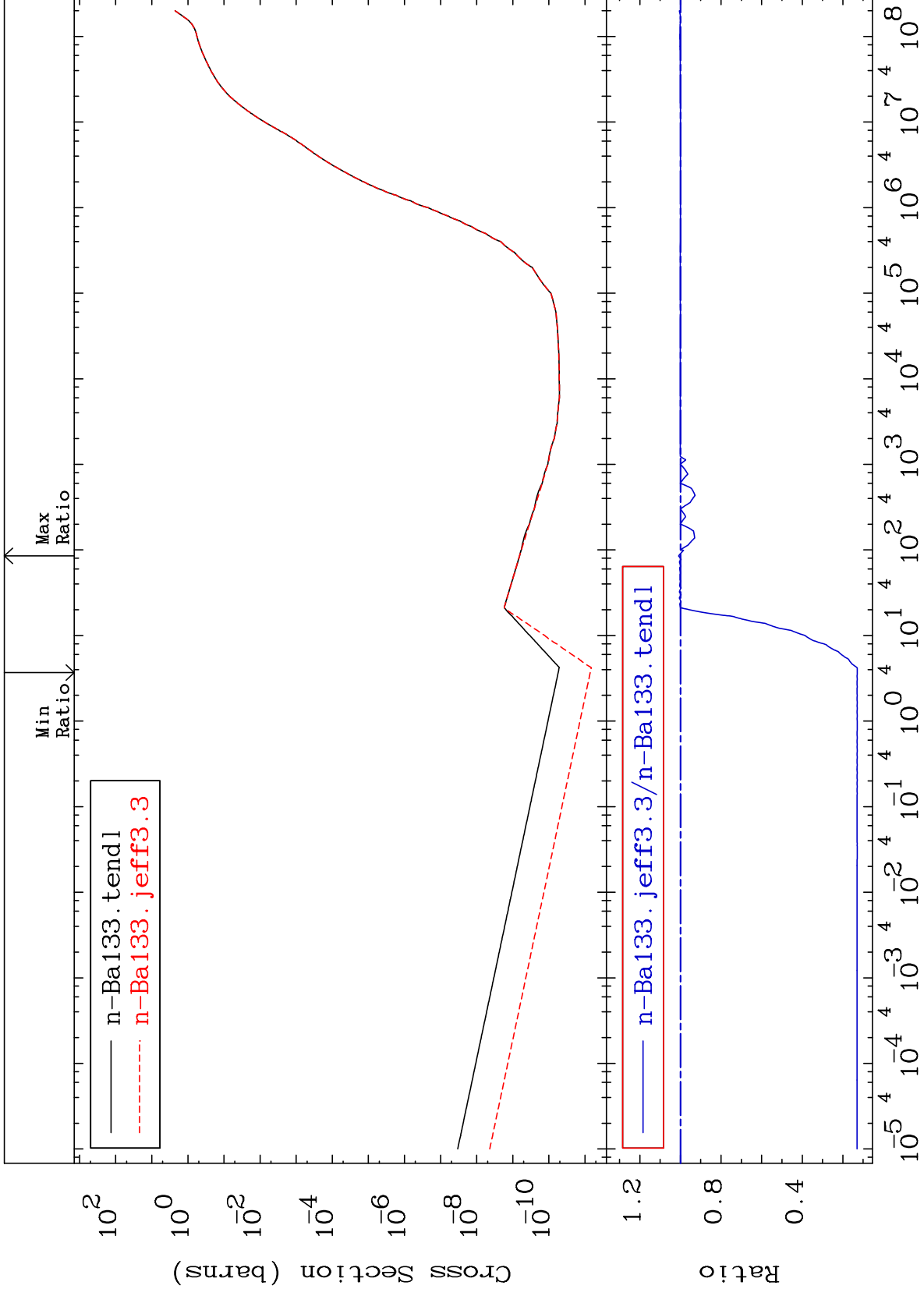
Incident Energy (eV)

56-Ba-133

MAT 5634

Hydrogen Production
Cross Section

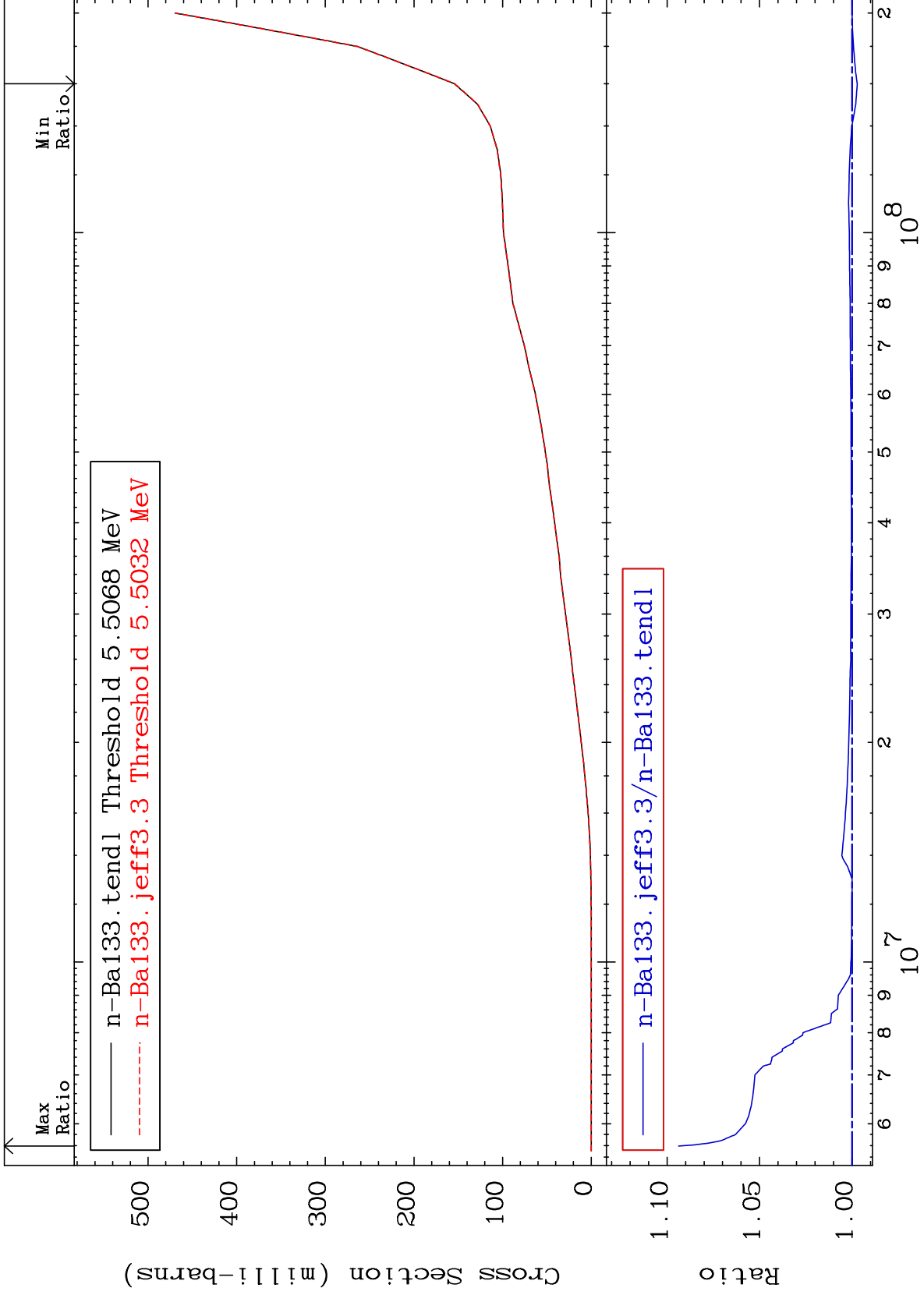
56-Ba-133
-87.09 To 0.876 %



MAT 5634

Deuterium Production
Cross Section

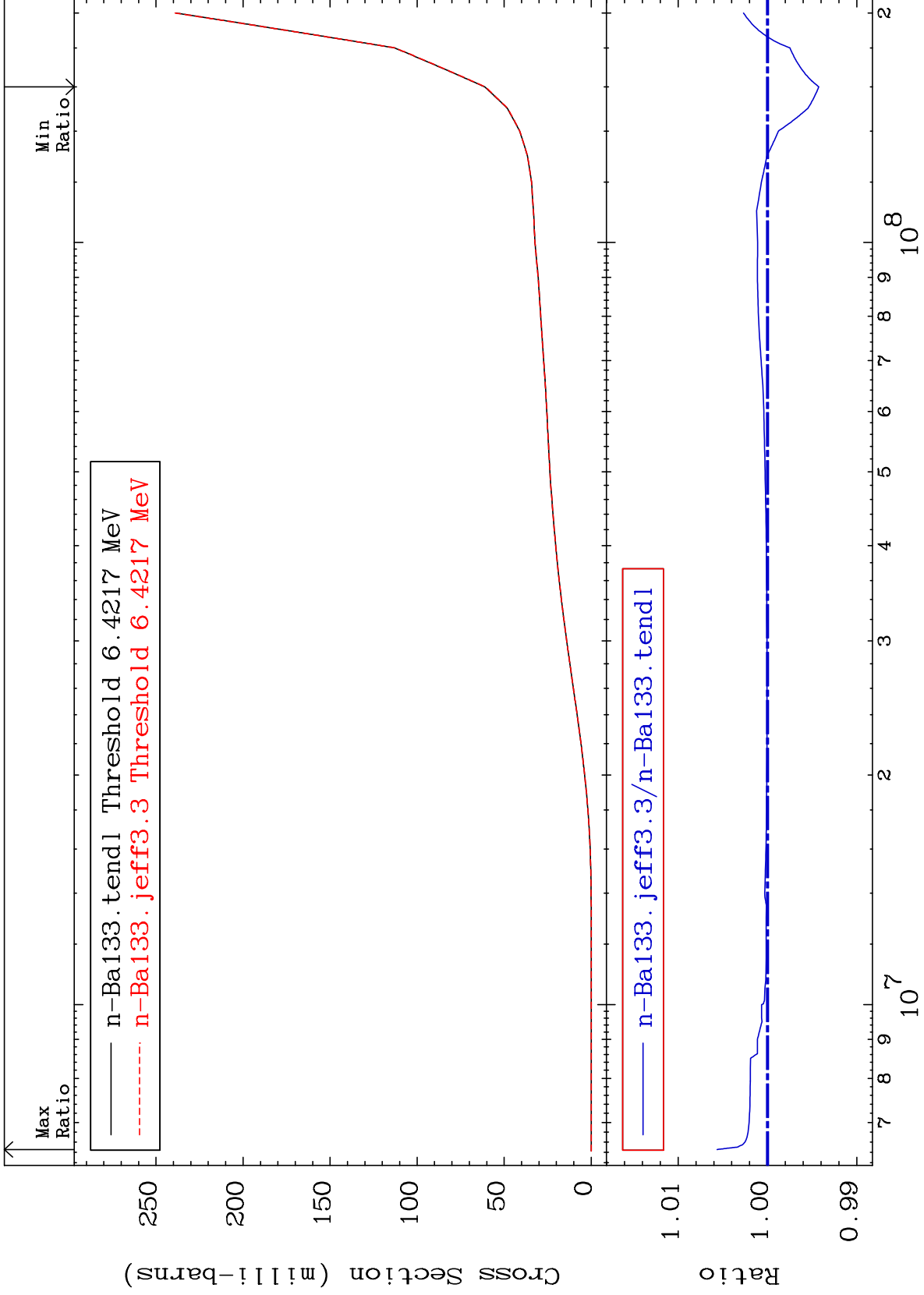
56-Ba-133
-0.282 To 9.376 %



MAT 5634

Tritium Production
Cross Section

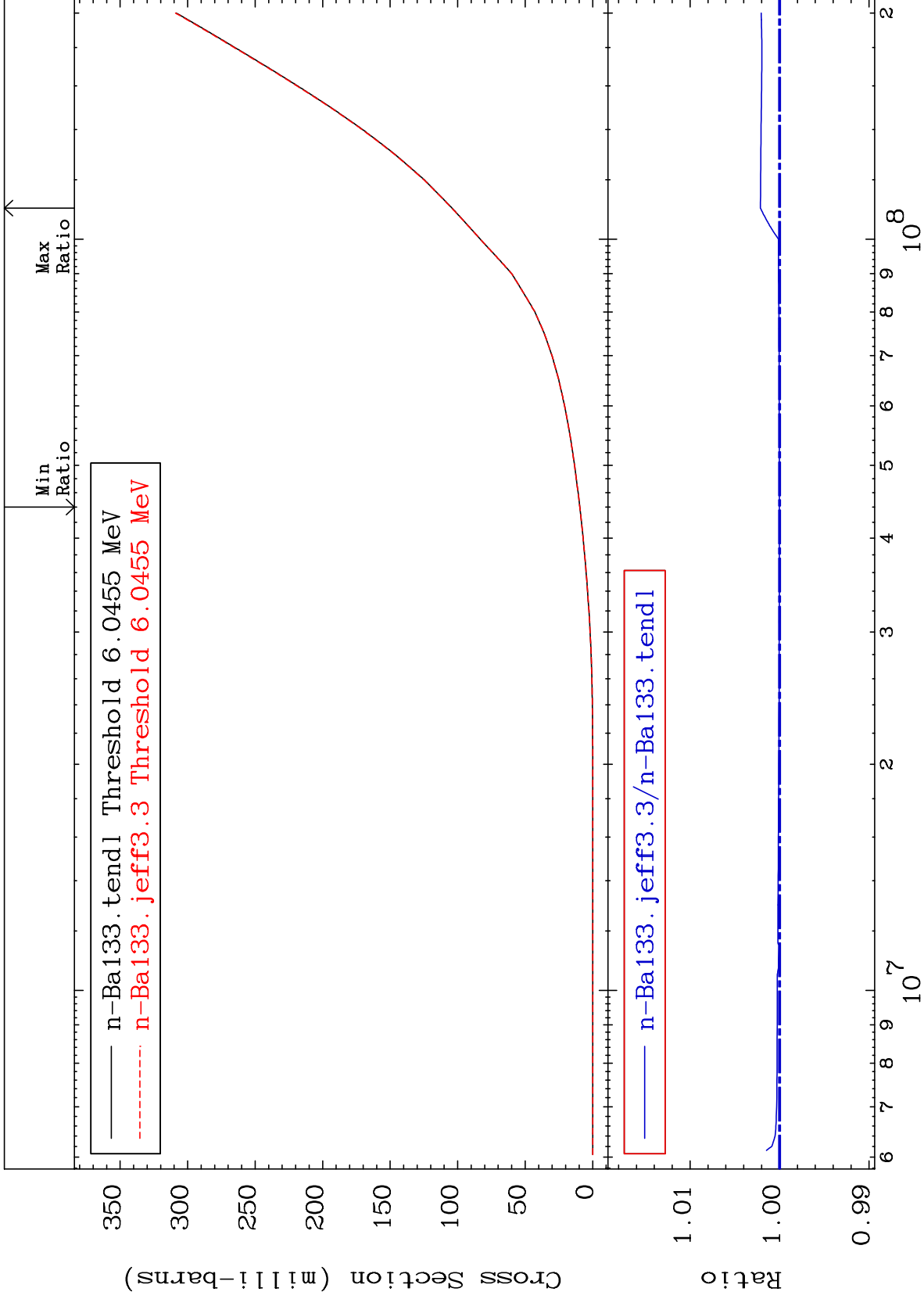
56-Ba-133
-0.575 To 0.564 %



MAT 5634

He-3 Production
Cross Section

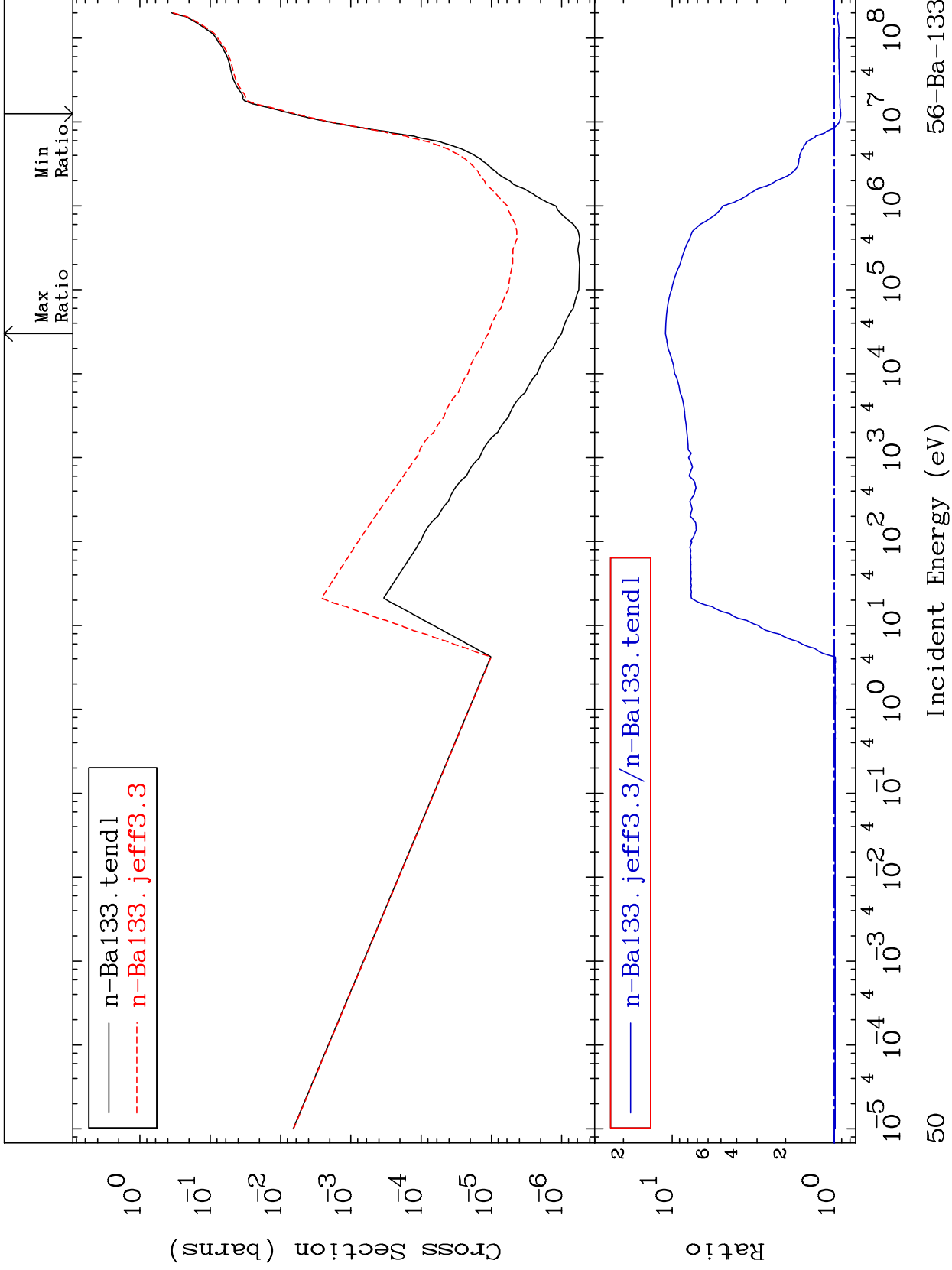
56-Ba-133
To 0.213 %

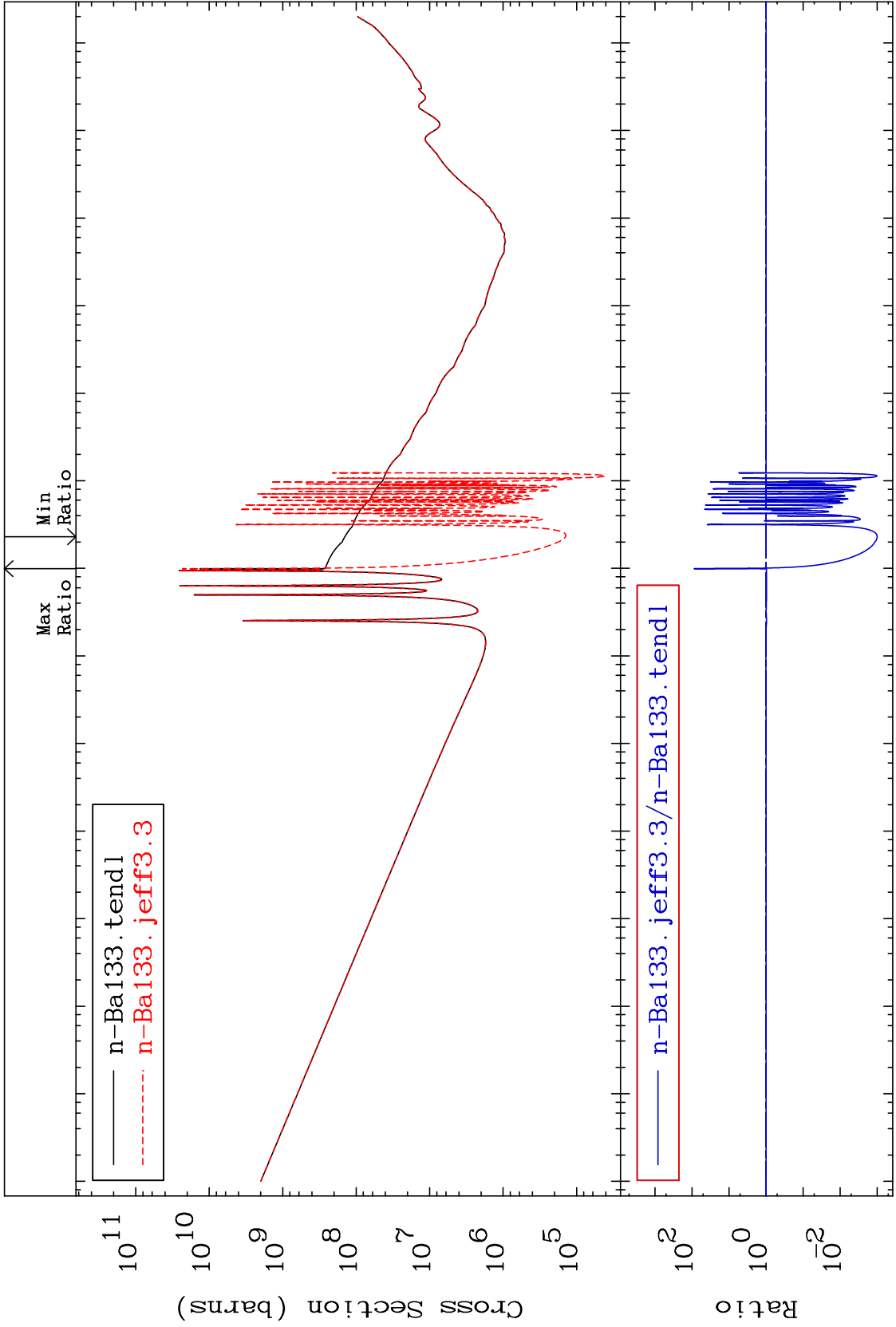


MAT 5634

He-4 Production
Cross Section

56-Ba-133
-8.599 To 999.6 %

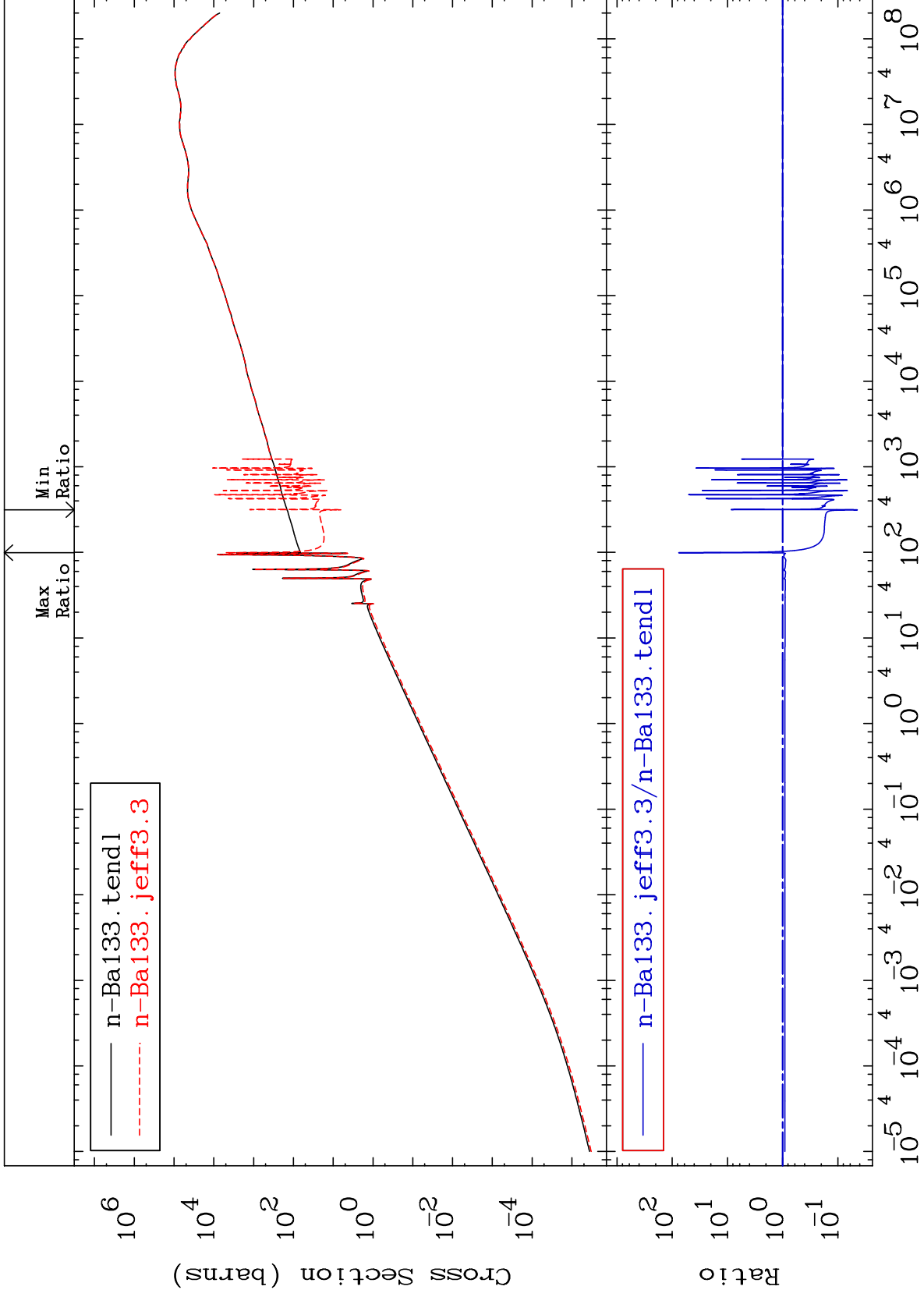


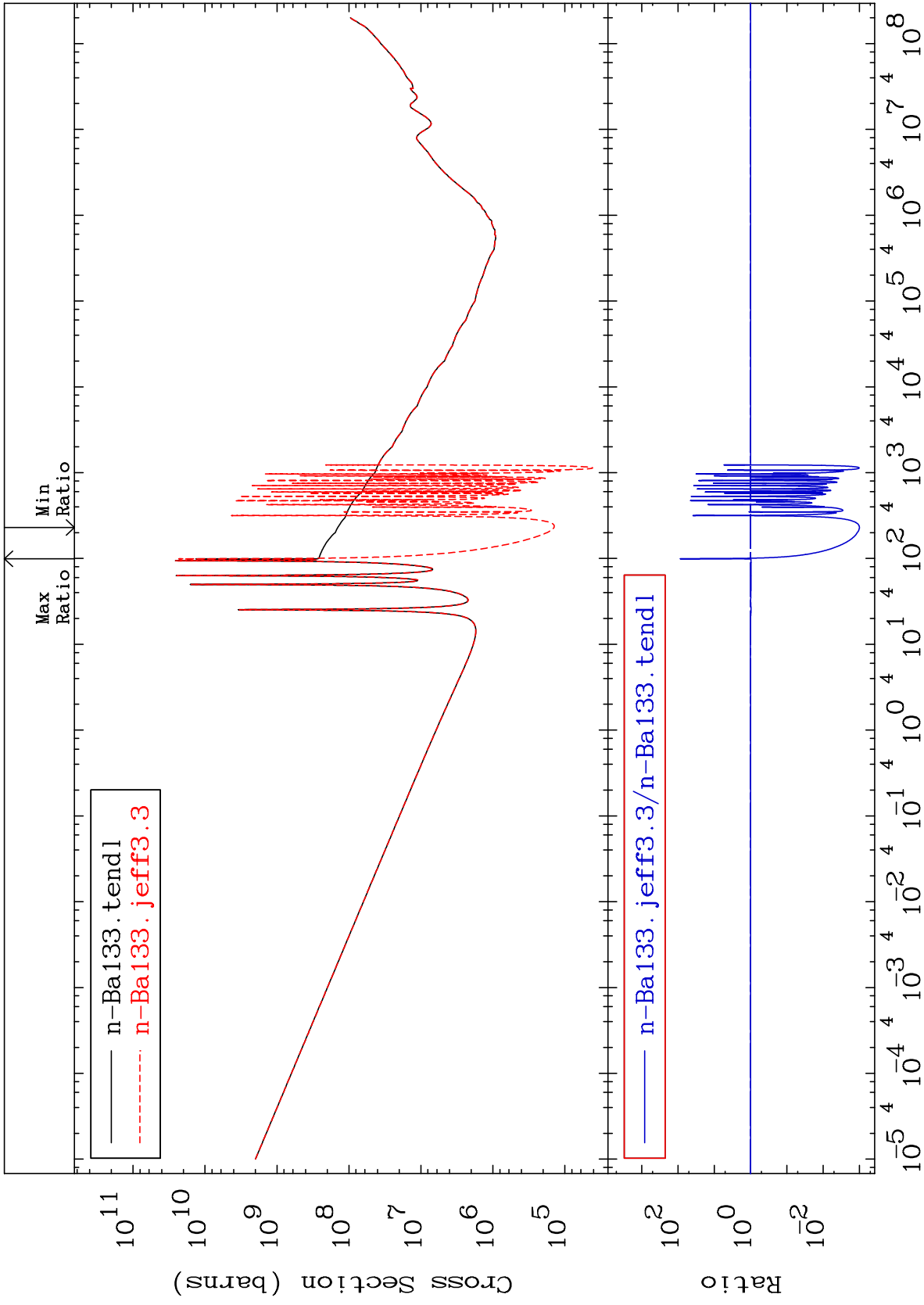


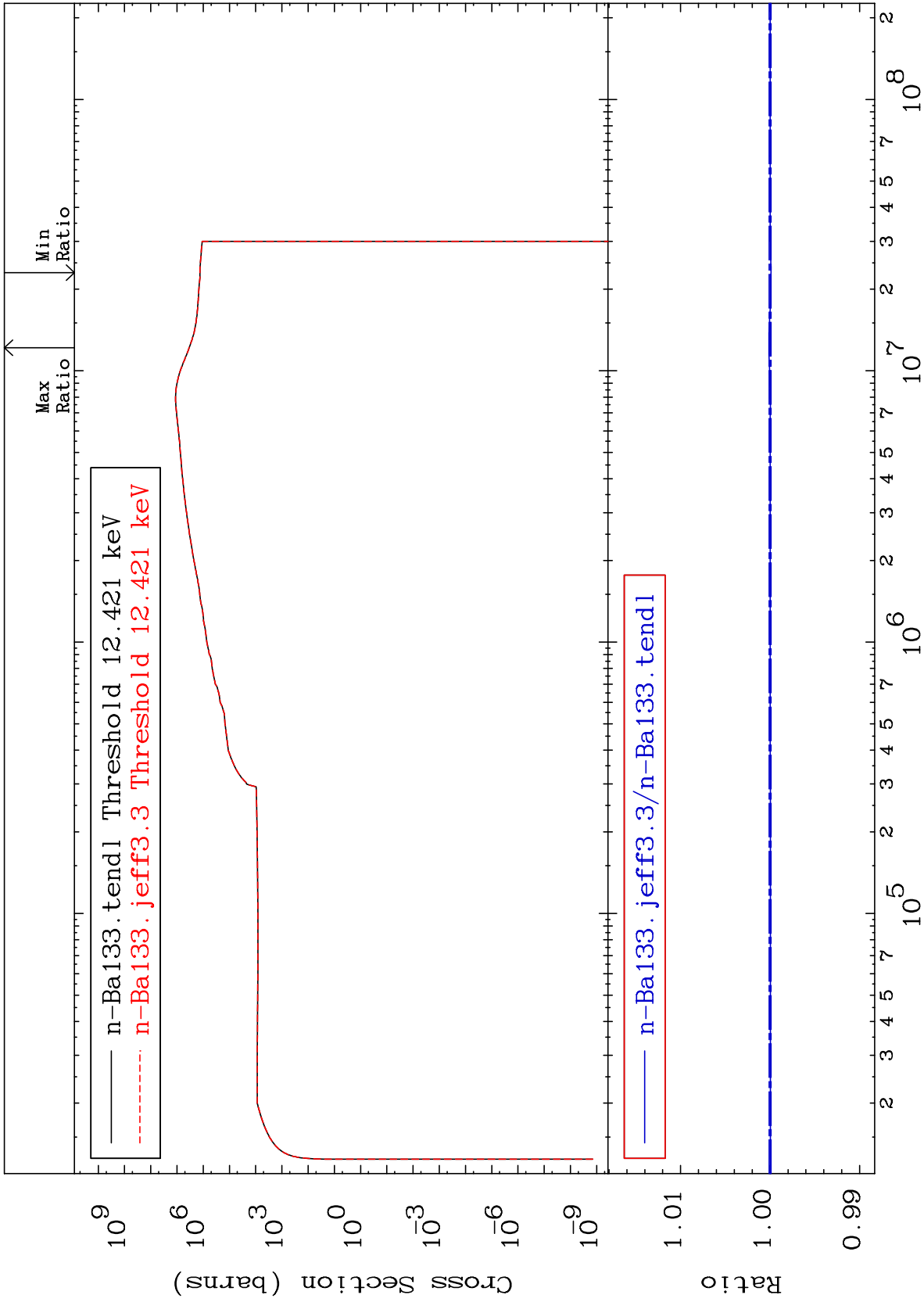
MAT 5634

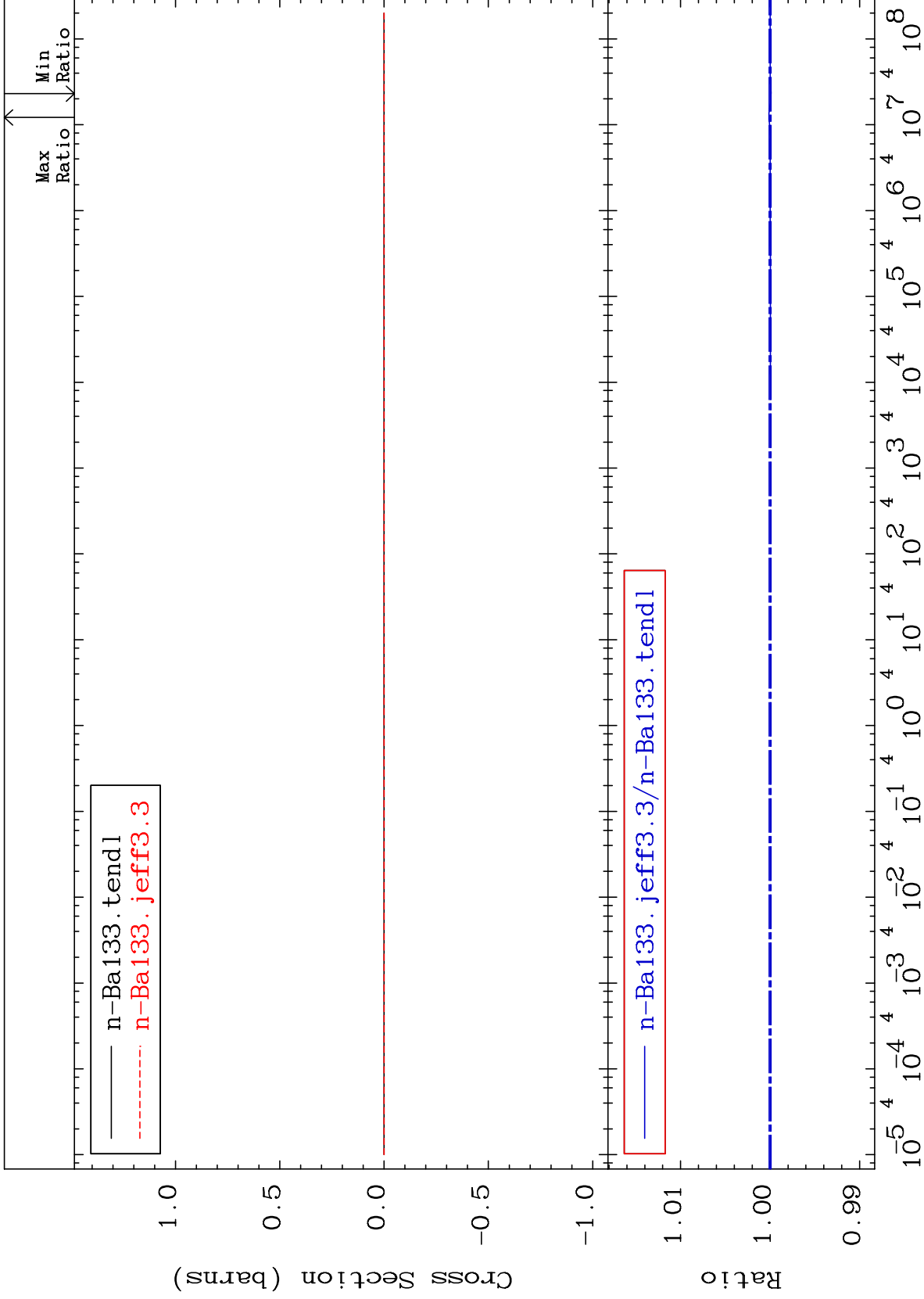
Kerma elastic
Cross Section

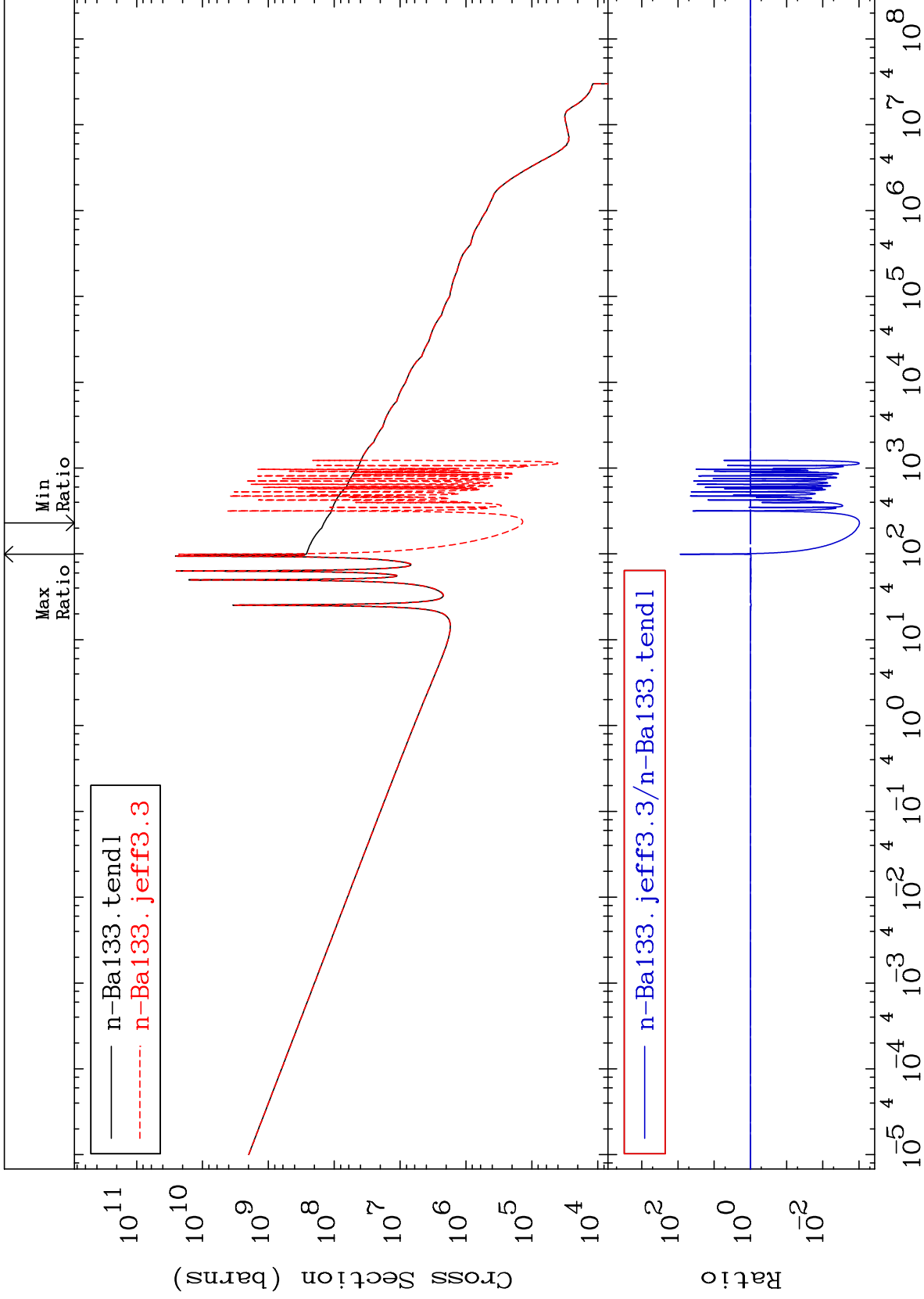
56-Ba-133
-95.54 To 7560. %

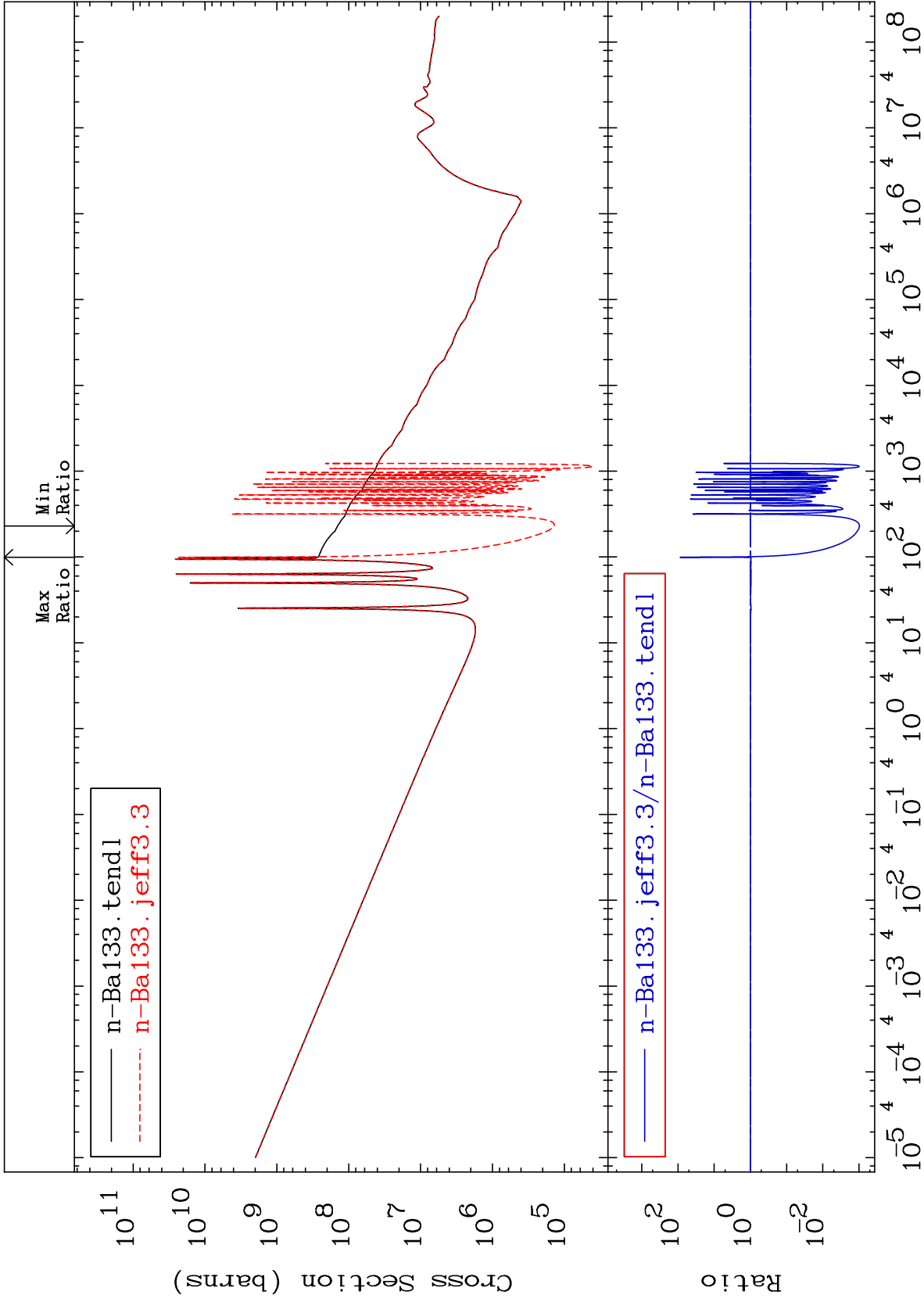


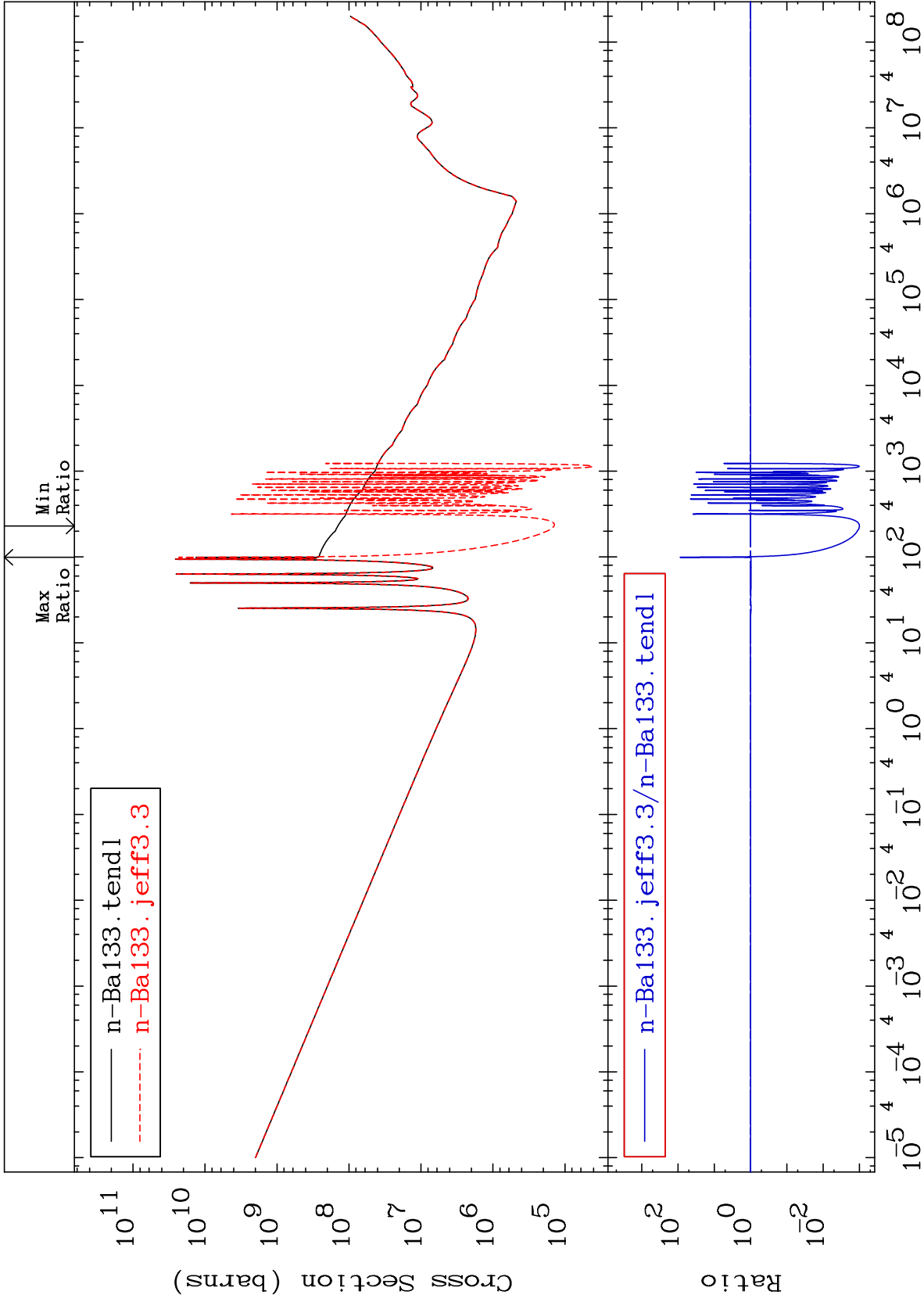


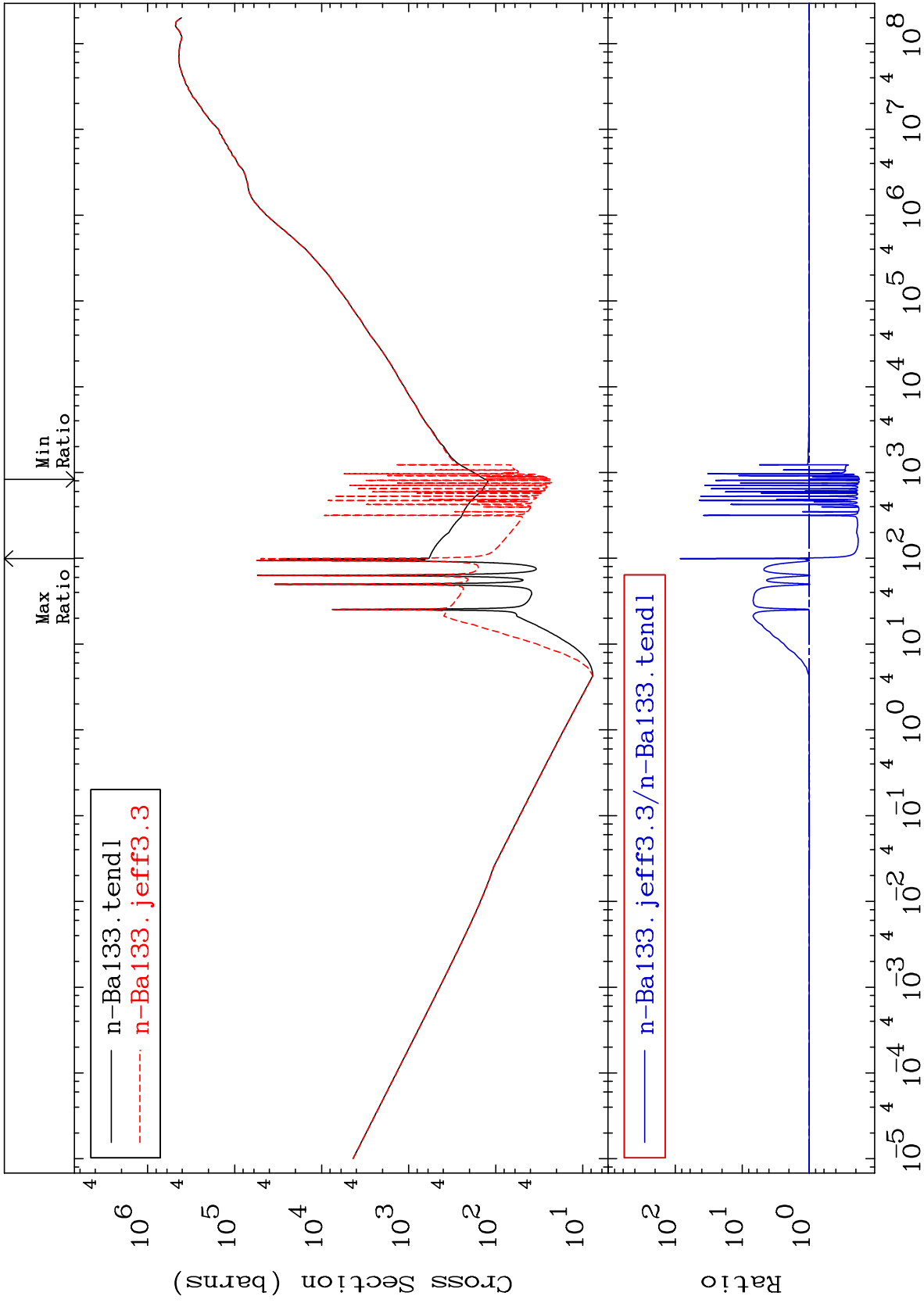








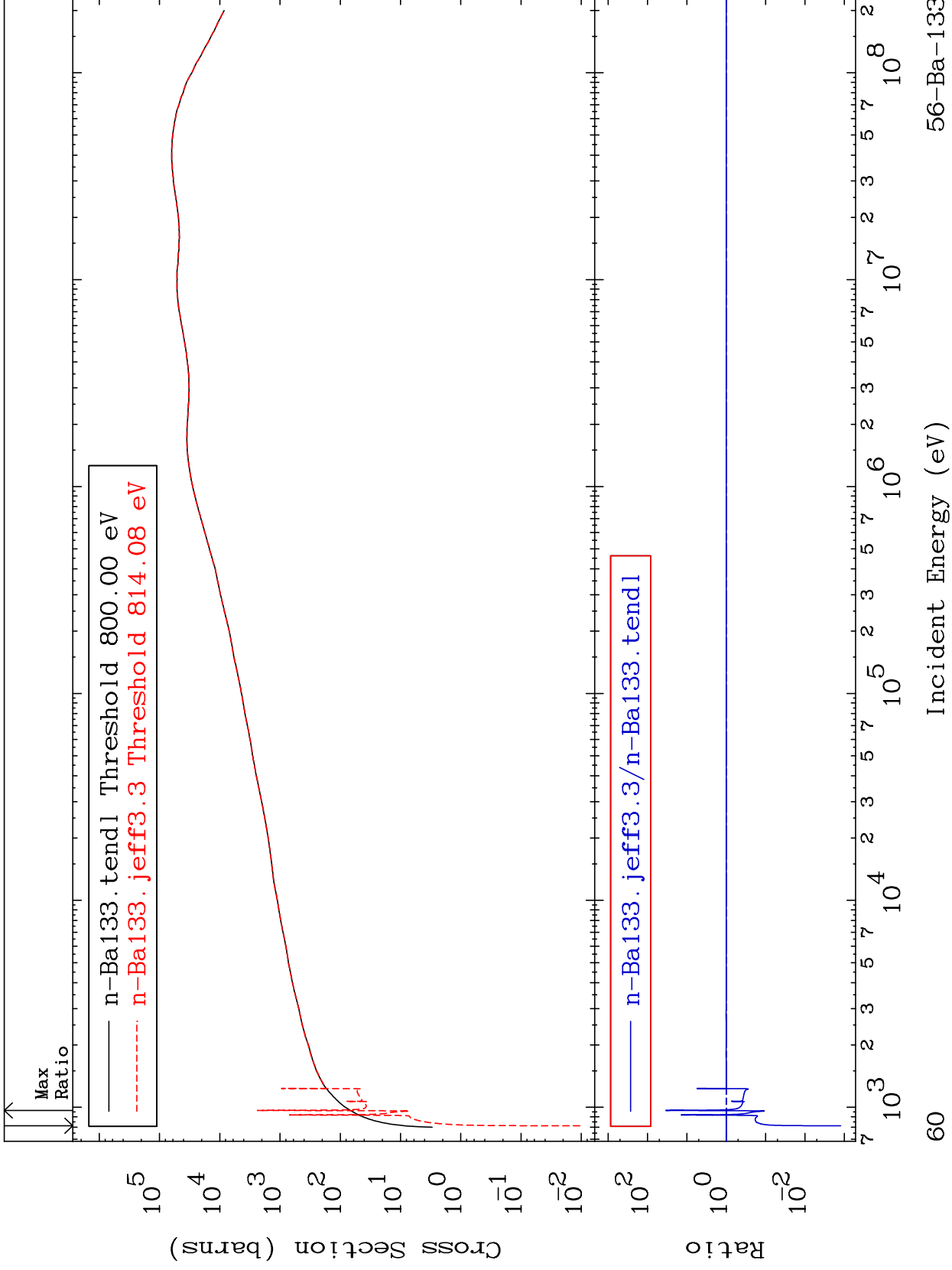


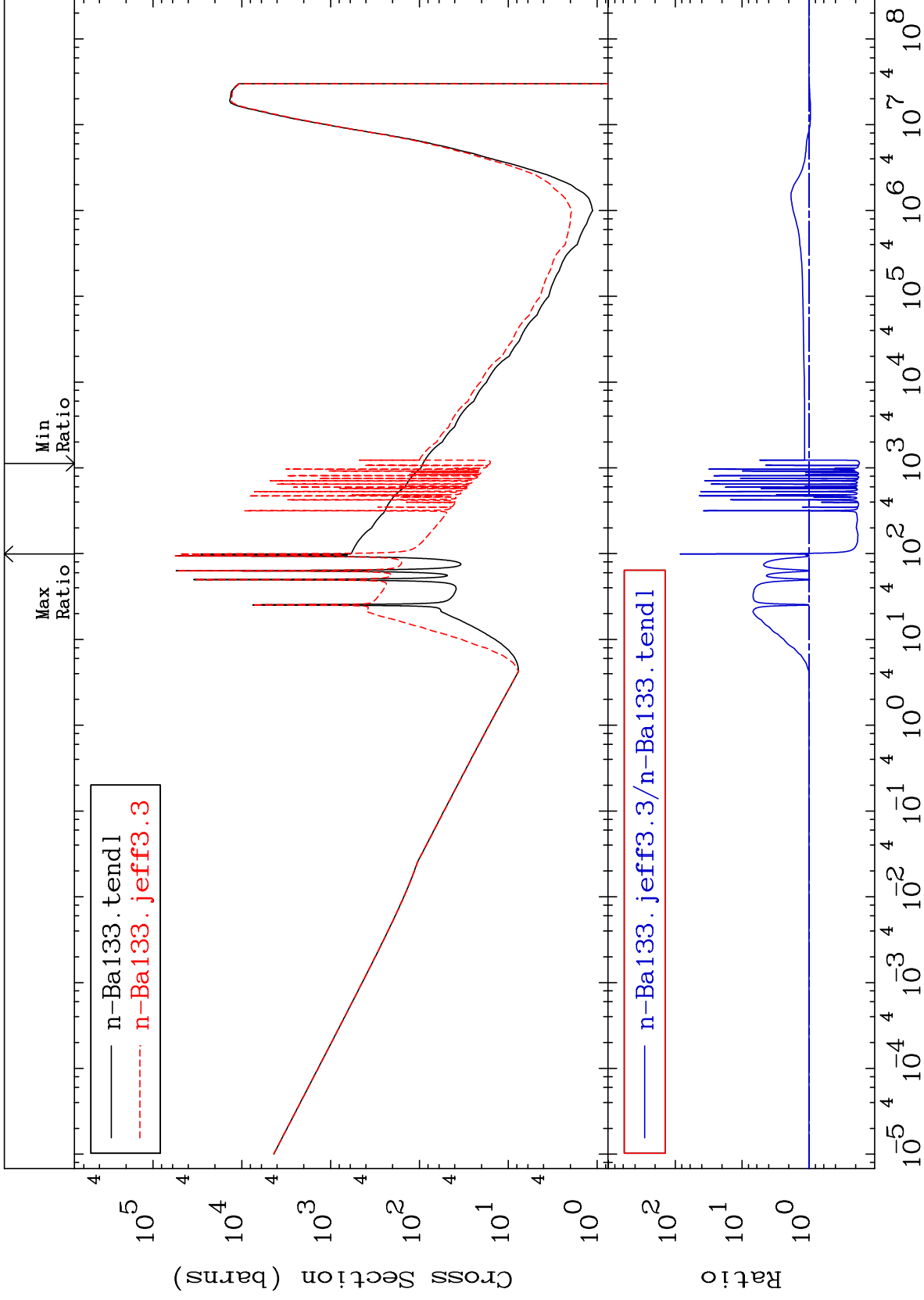


MAT 5634

Dpa elastic (mt2)
Cross Section

56-Ba-133
-99.88 To 3395. %



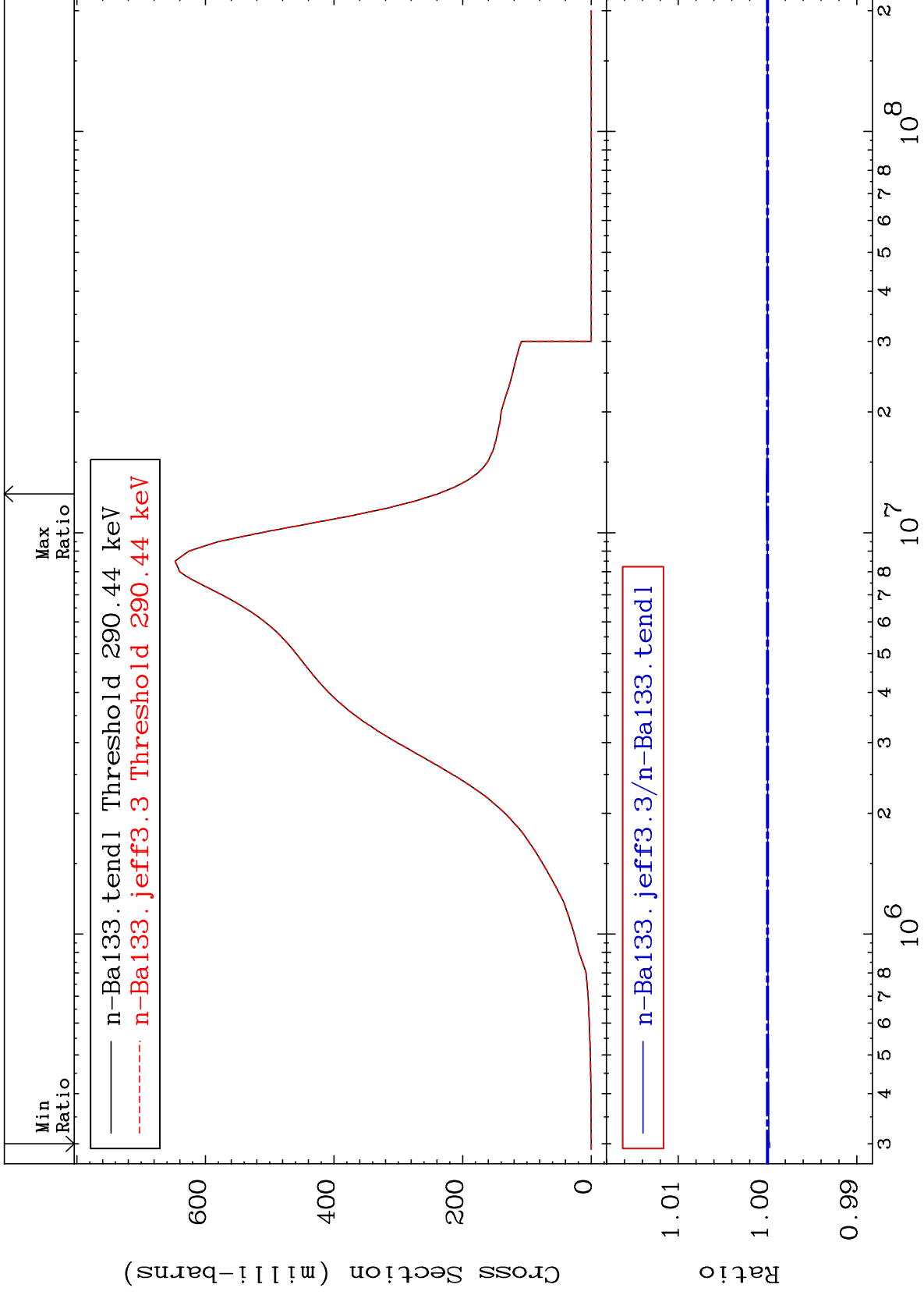


MAT 5634

Inelastic:56-Ba-133m2

56-Ba-133

Radionuclide Production Cross Section -0.024 To 0.014 %



62

Incident Energy (eV)

56-Ba-133

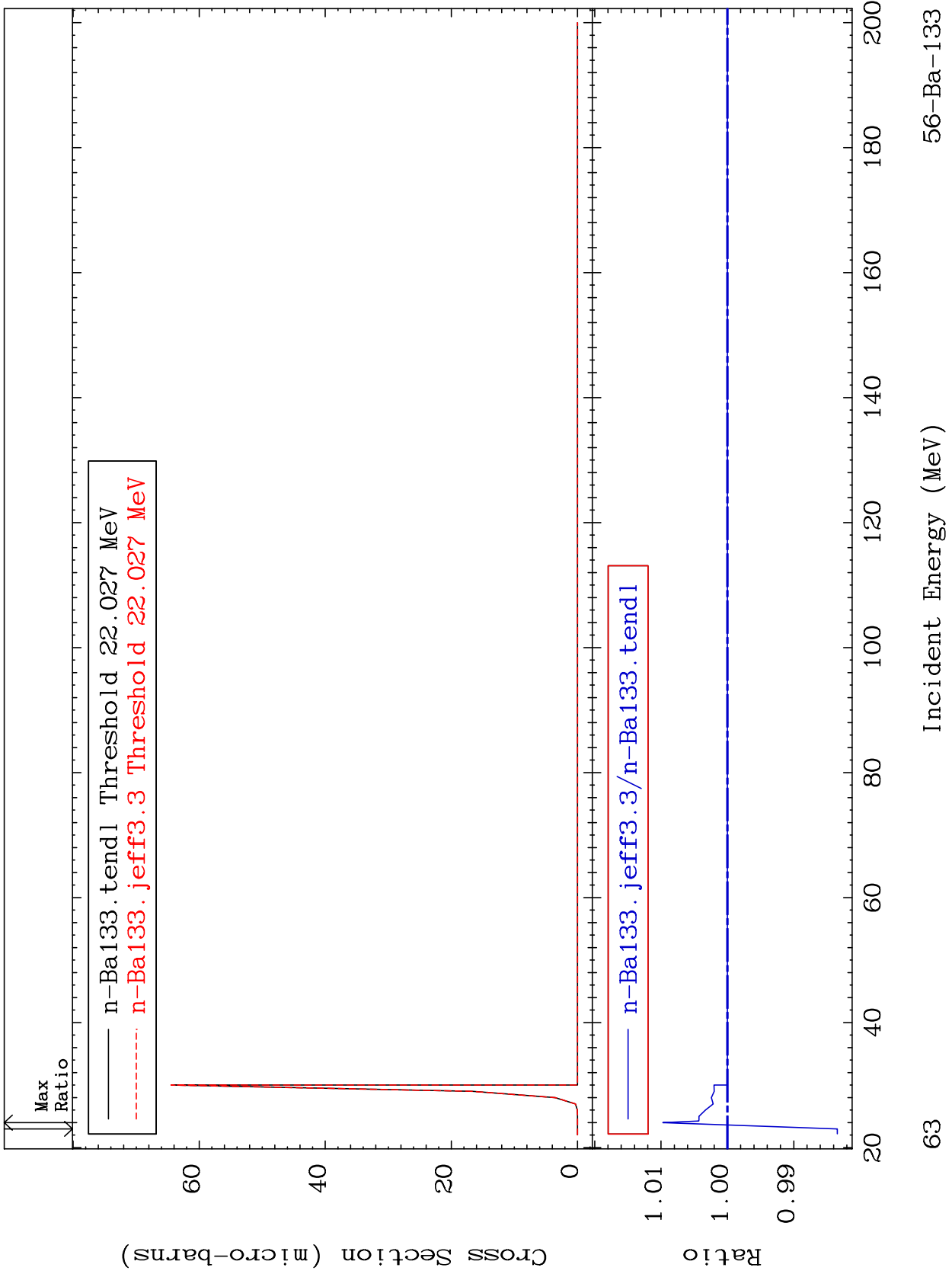
MAT 5634

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

56-Ba-133

Radionuclide Production Cross Section

-1.656 To 0.973 %



63

Incident Energy (MeV)

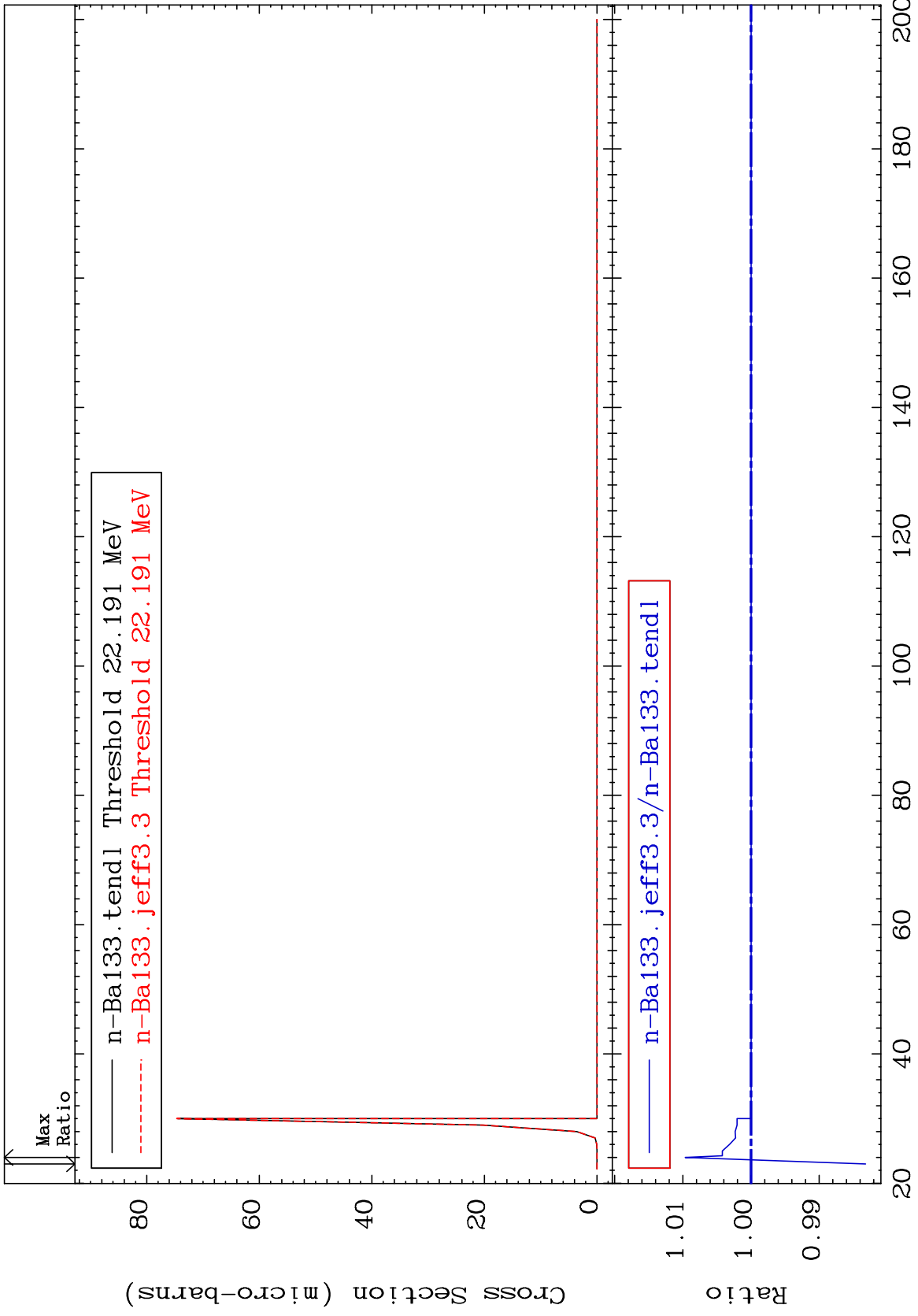
56-Ba-133

MAT 5634

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

56-Ba-133

Radionuclide Production Cross Section -1.680 To 0.965 %

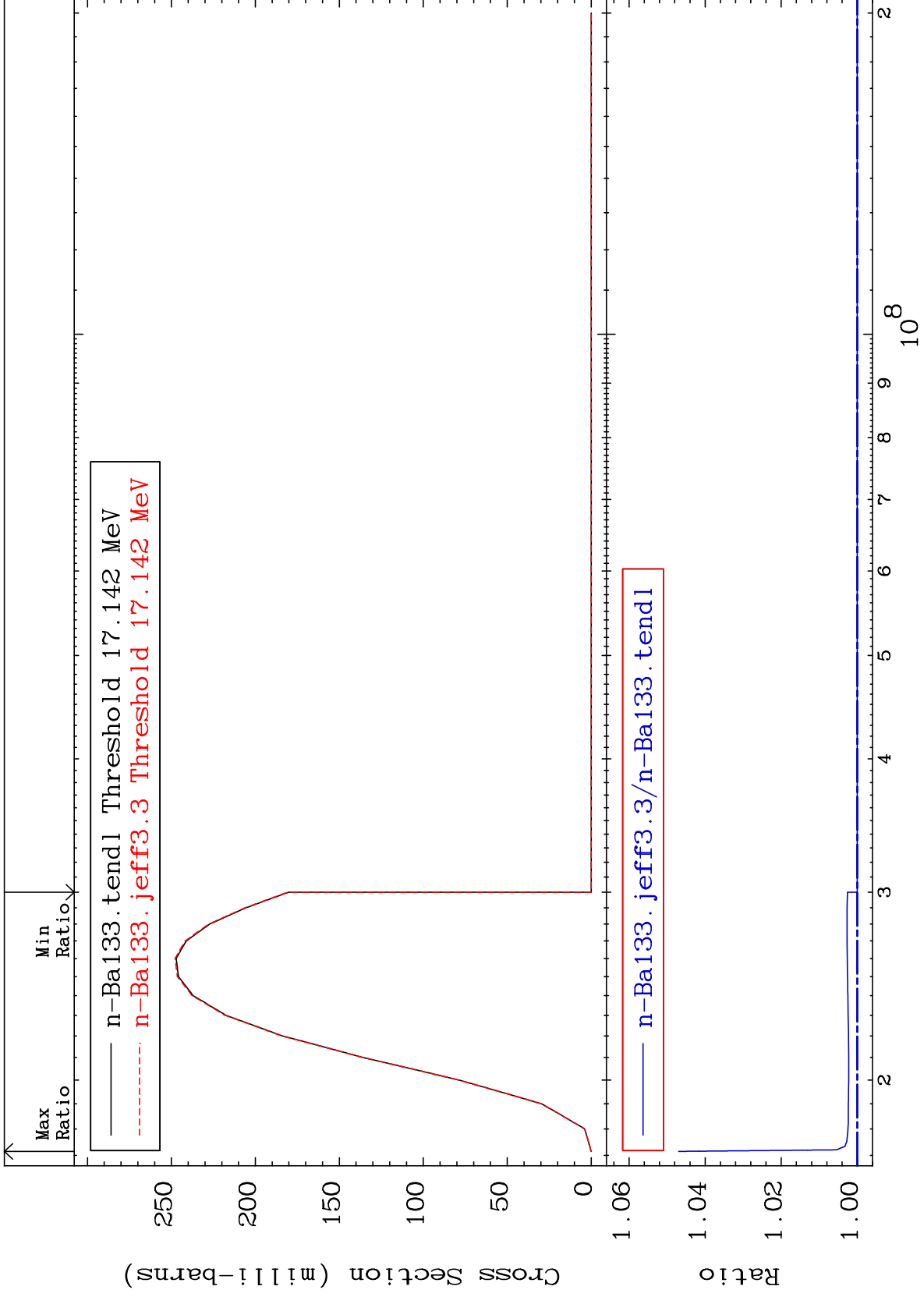


MAT 5634

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

56-Ba-133

Radionuclide Production Cross Section 0.000 To 4.697 %

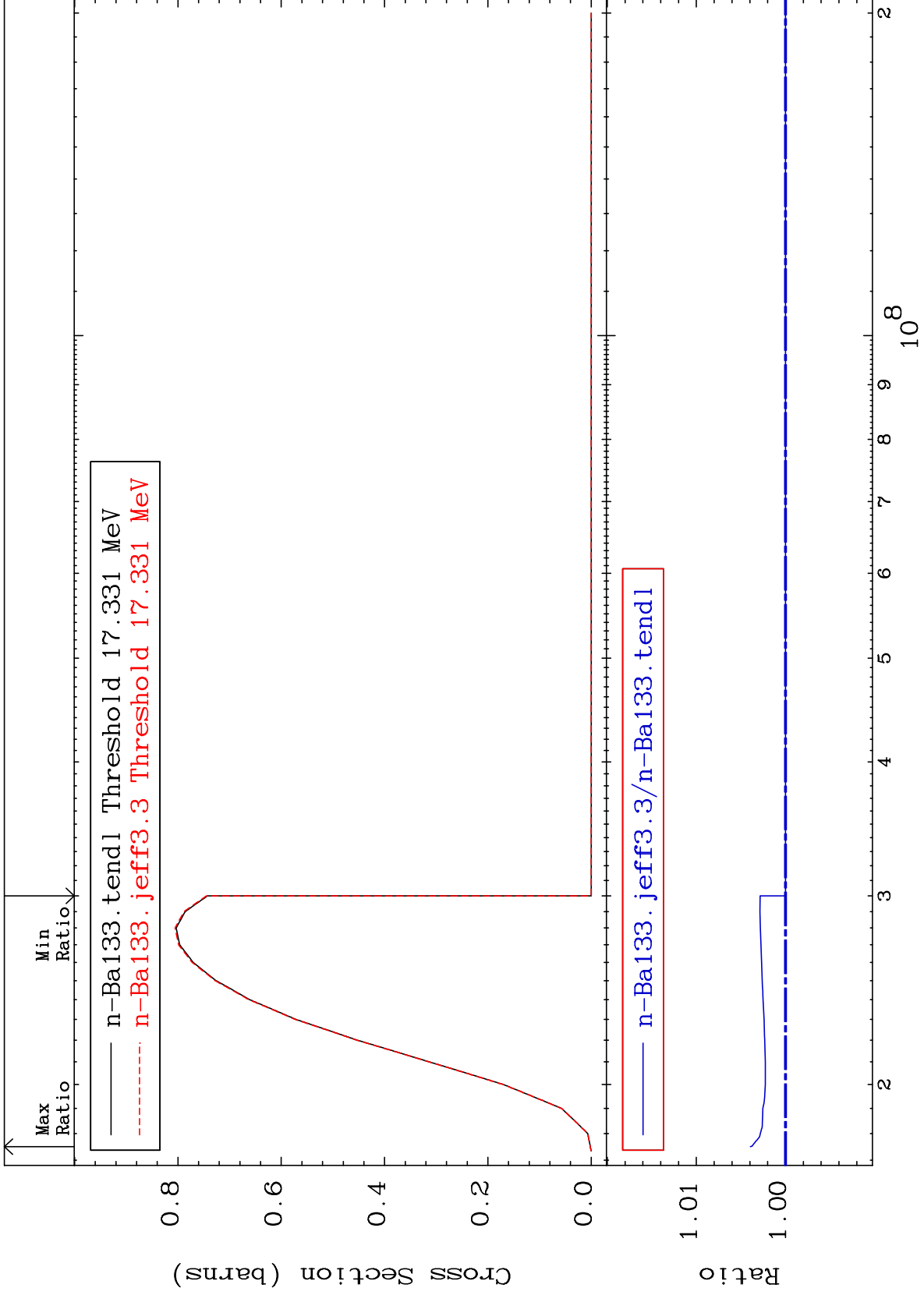


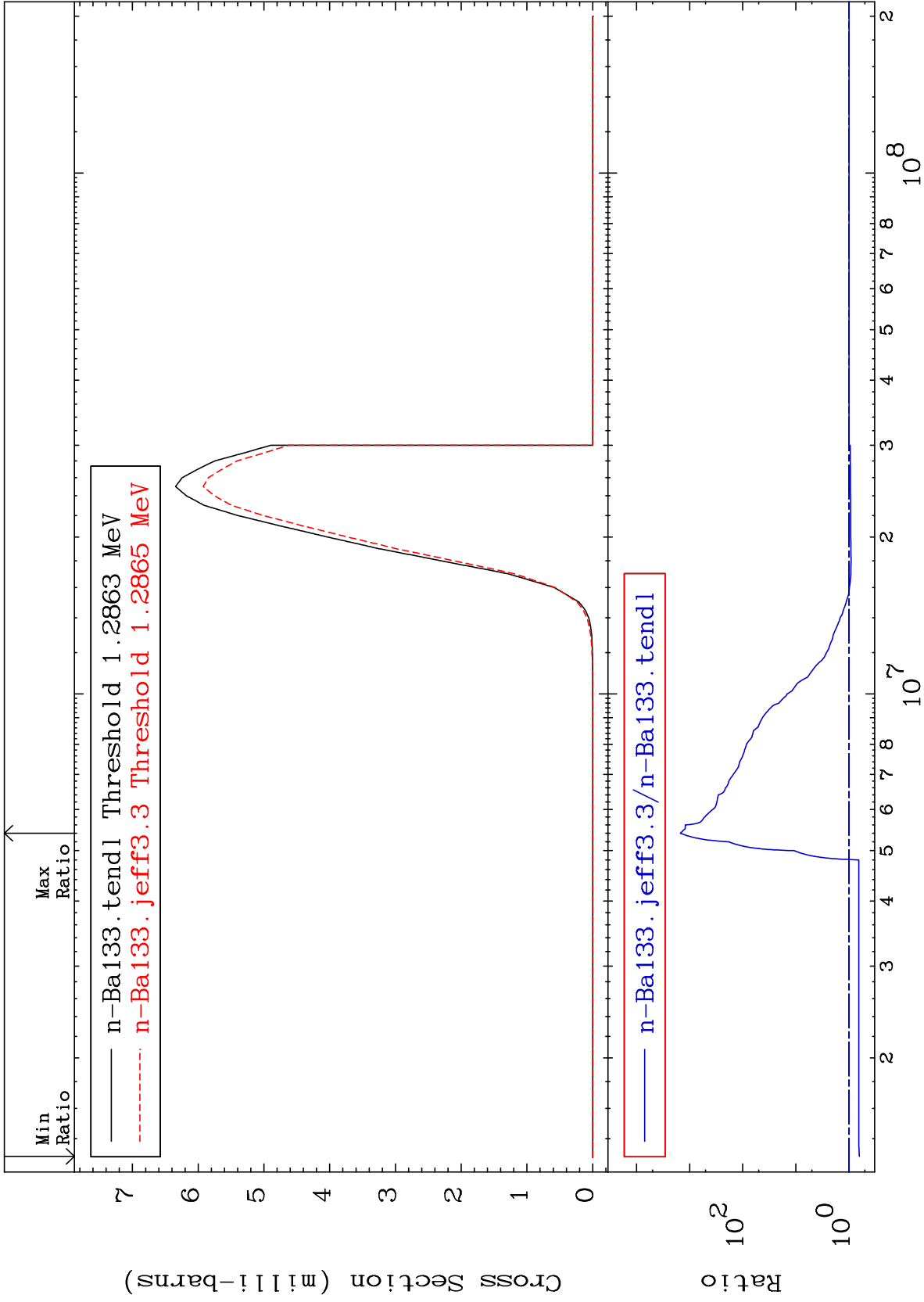
MAT 5634

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

56-Ba-133

Radionuclide Production Cross Section 0.000 To 0.394 %



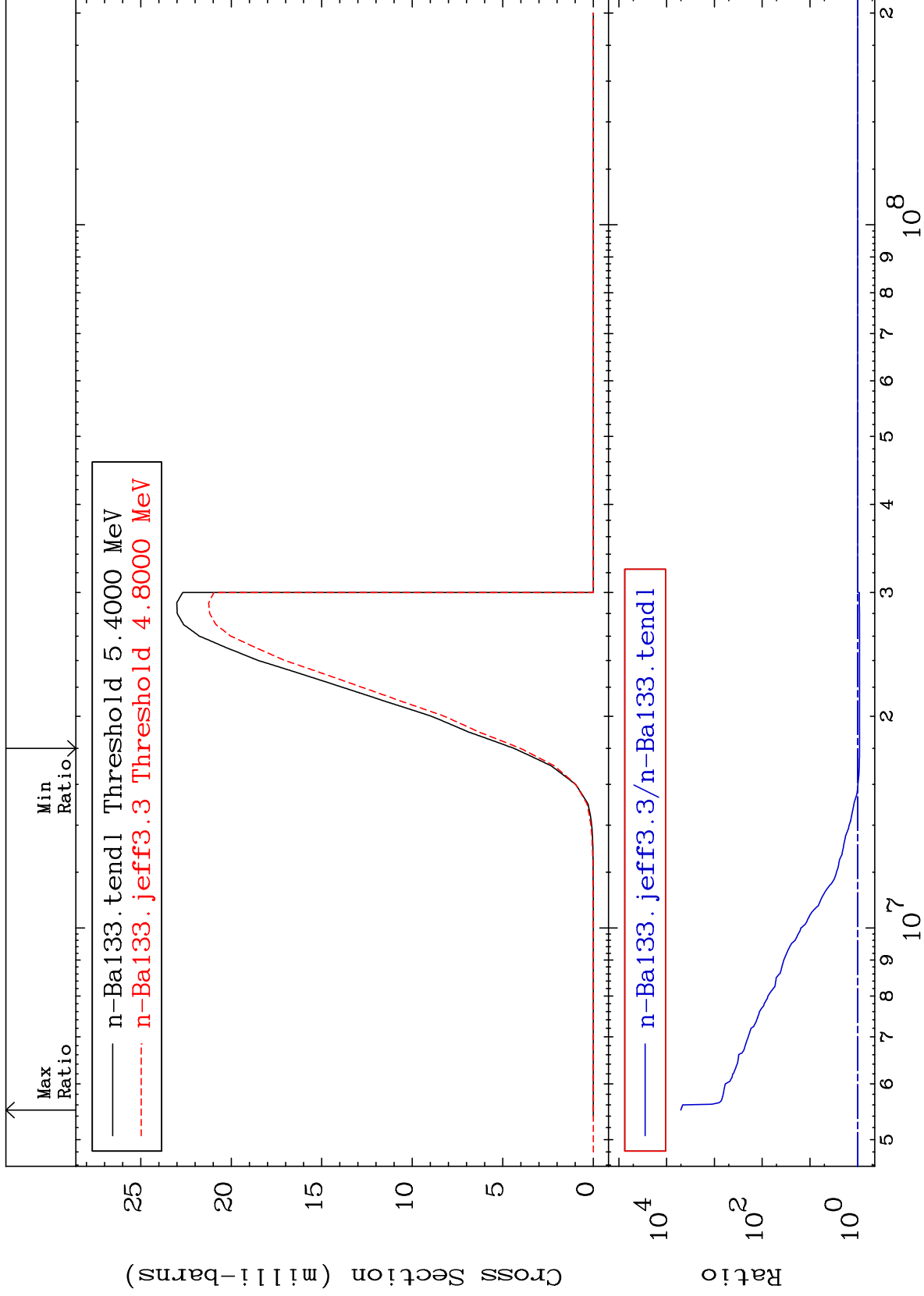


MAT 5634

(n, n') α :54-Xe-129m2

56-Ba-133

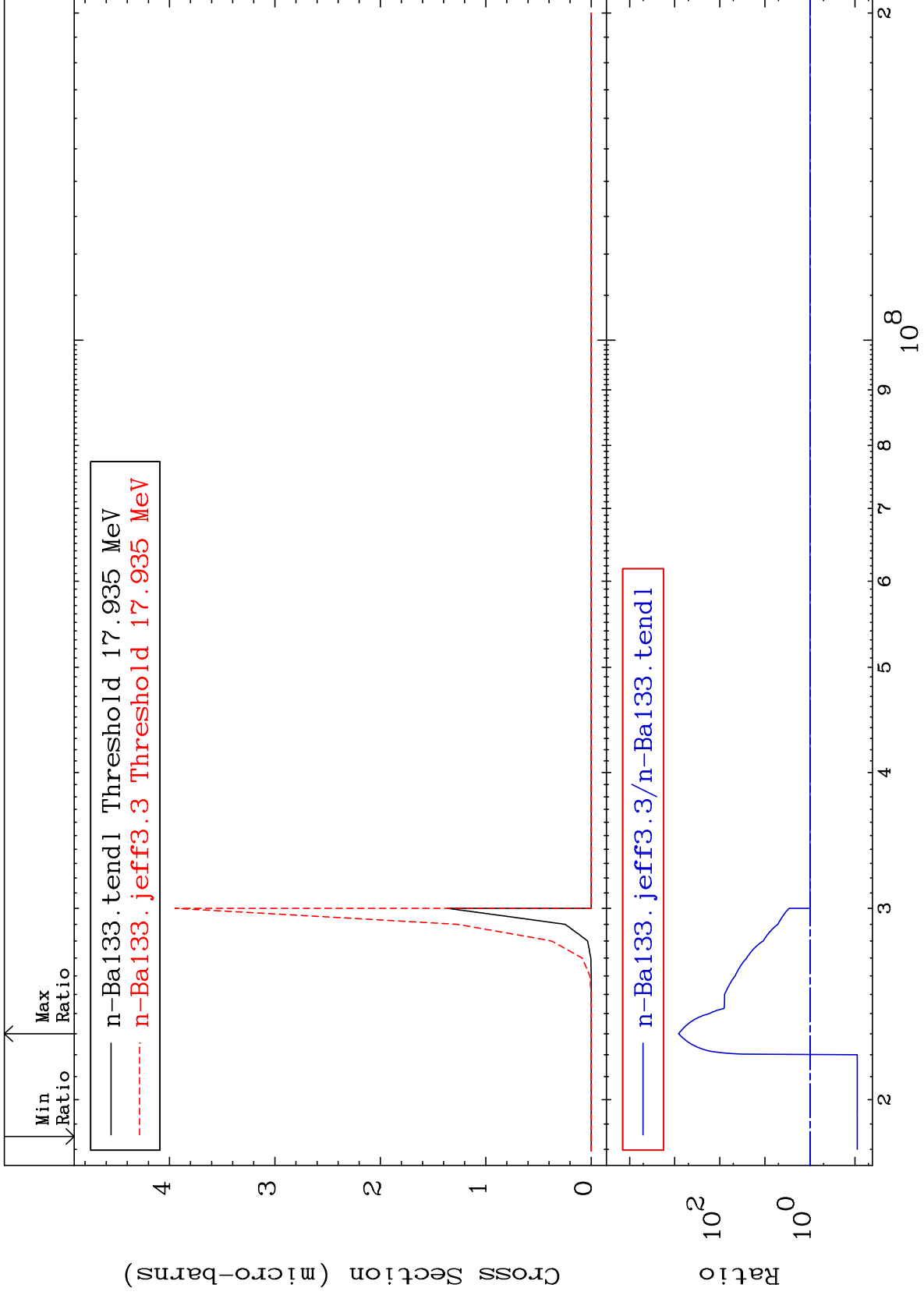
Radionuclide Production Cross Section -8.239 To 9999. %



68

Incident Energy (eV)

56-Ba-133

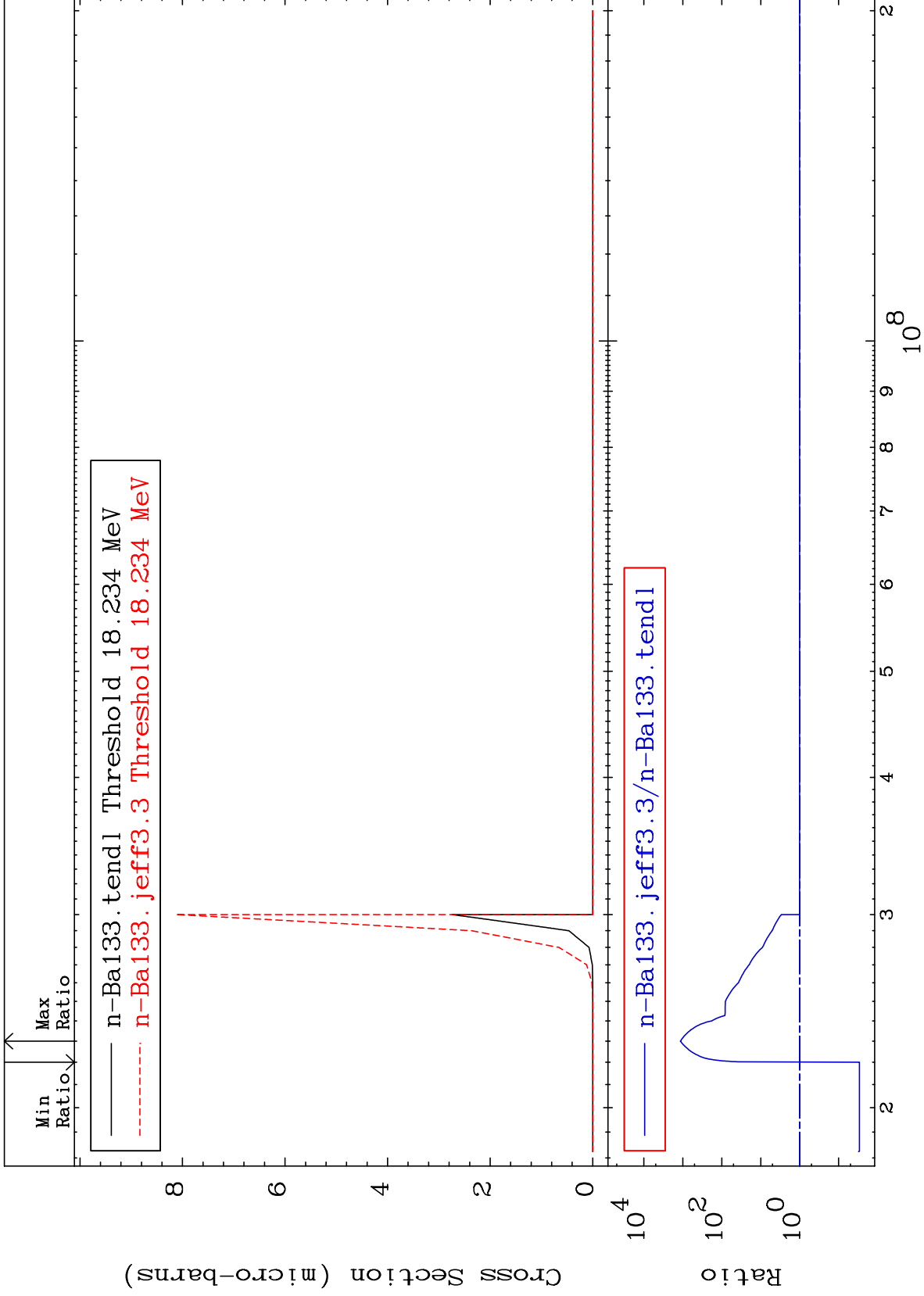


MAT 5634

(n,3n) α :54-Xe-127m2

56-Ba-133

Radionuclide Production Cross Section -97.08 To 9999. %



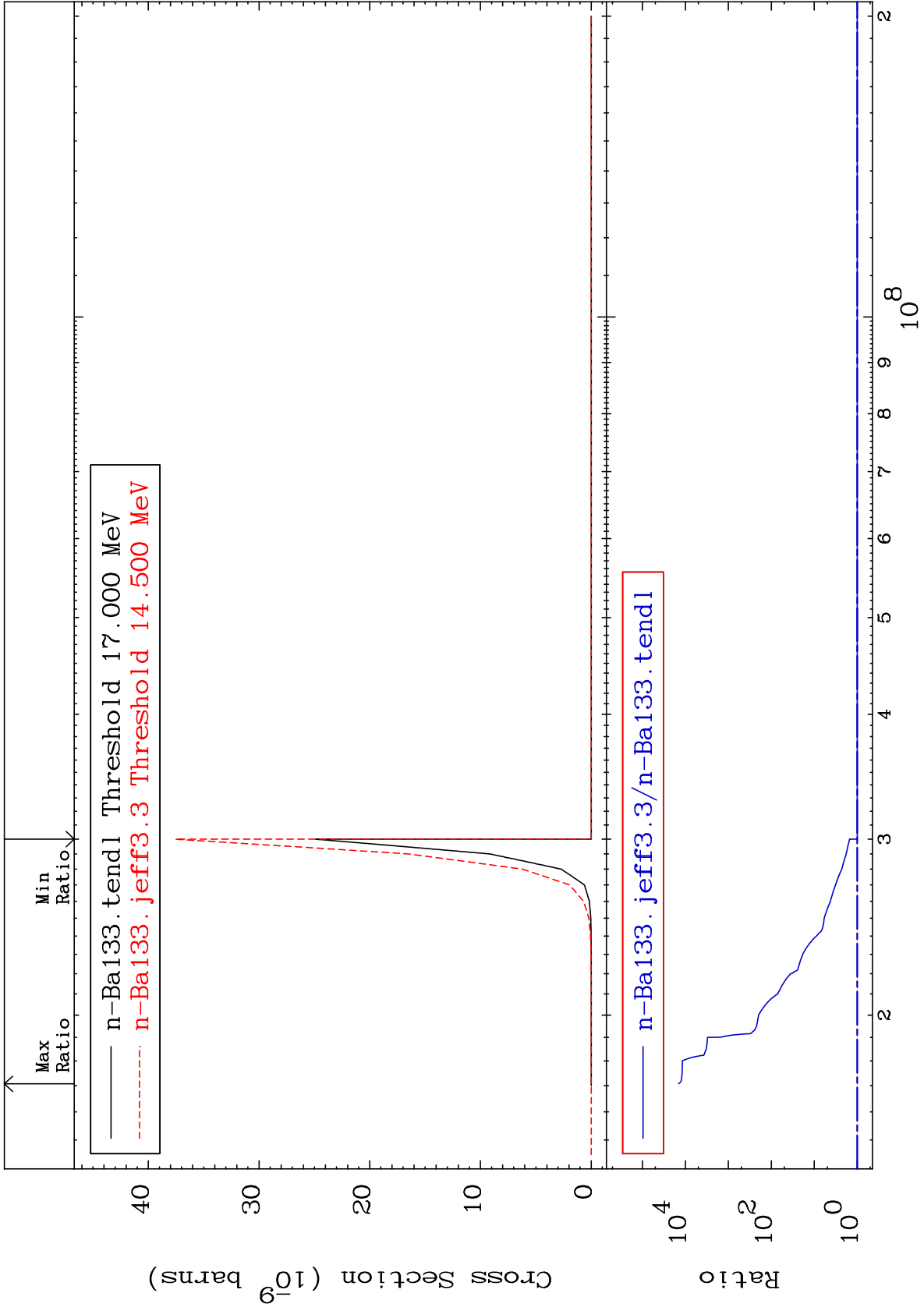
70

Incident Energy (eV)

56-Ba-133

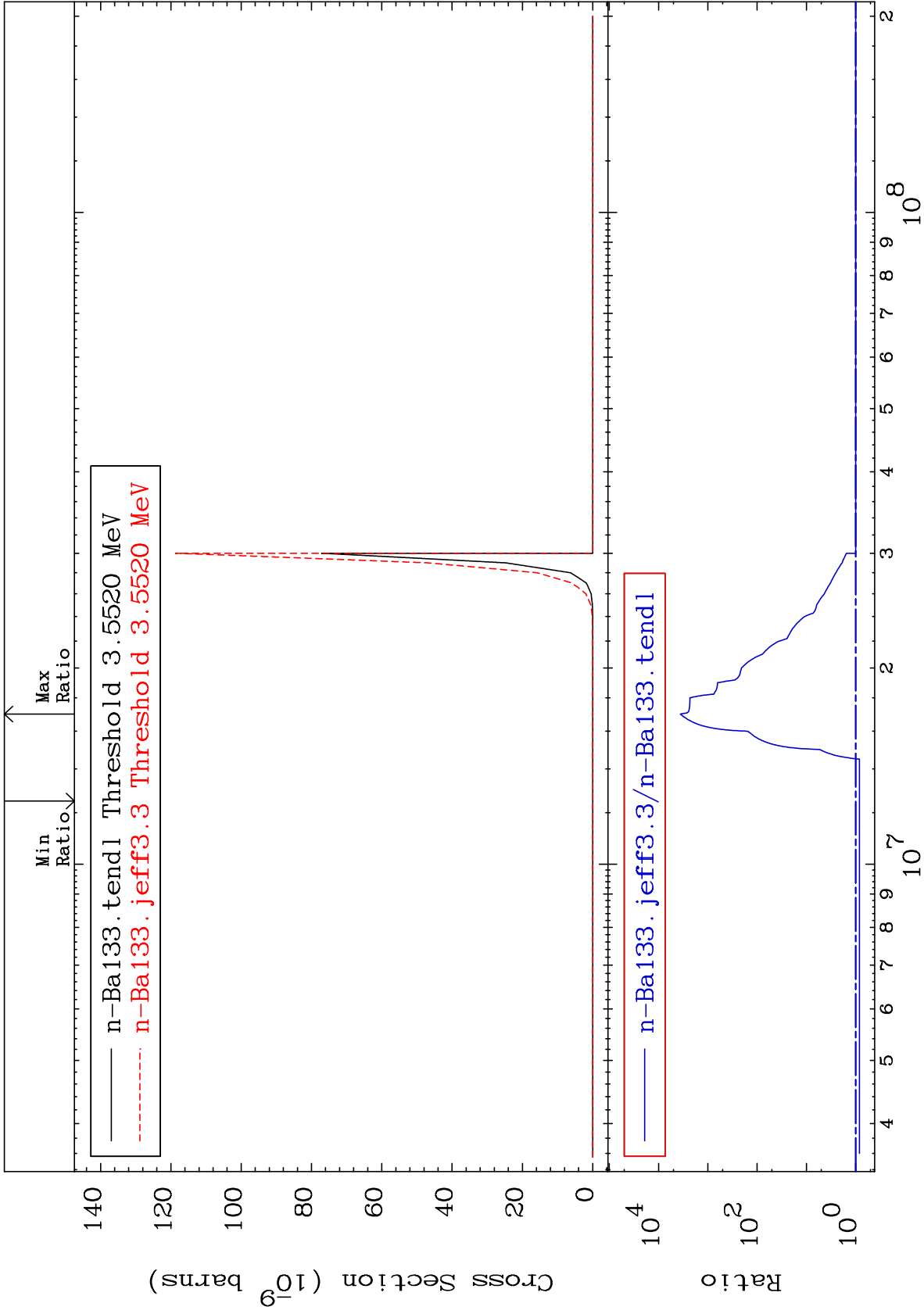
MAT 5634

(n,n') 2α:52-Te-125g 56-Ba-133
Radionuclide Production Cross Section 0.000 To 9999. %



MAT 5634

(n, n') 2α:52-Te-125m2 56-Ba-133
Radionuclide Production Cross Section -16.17 To 9999. %

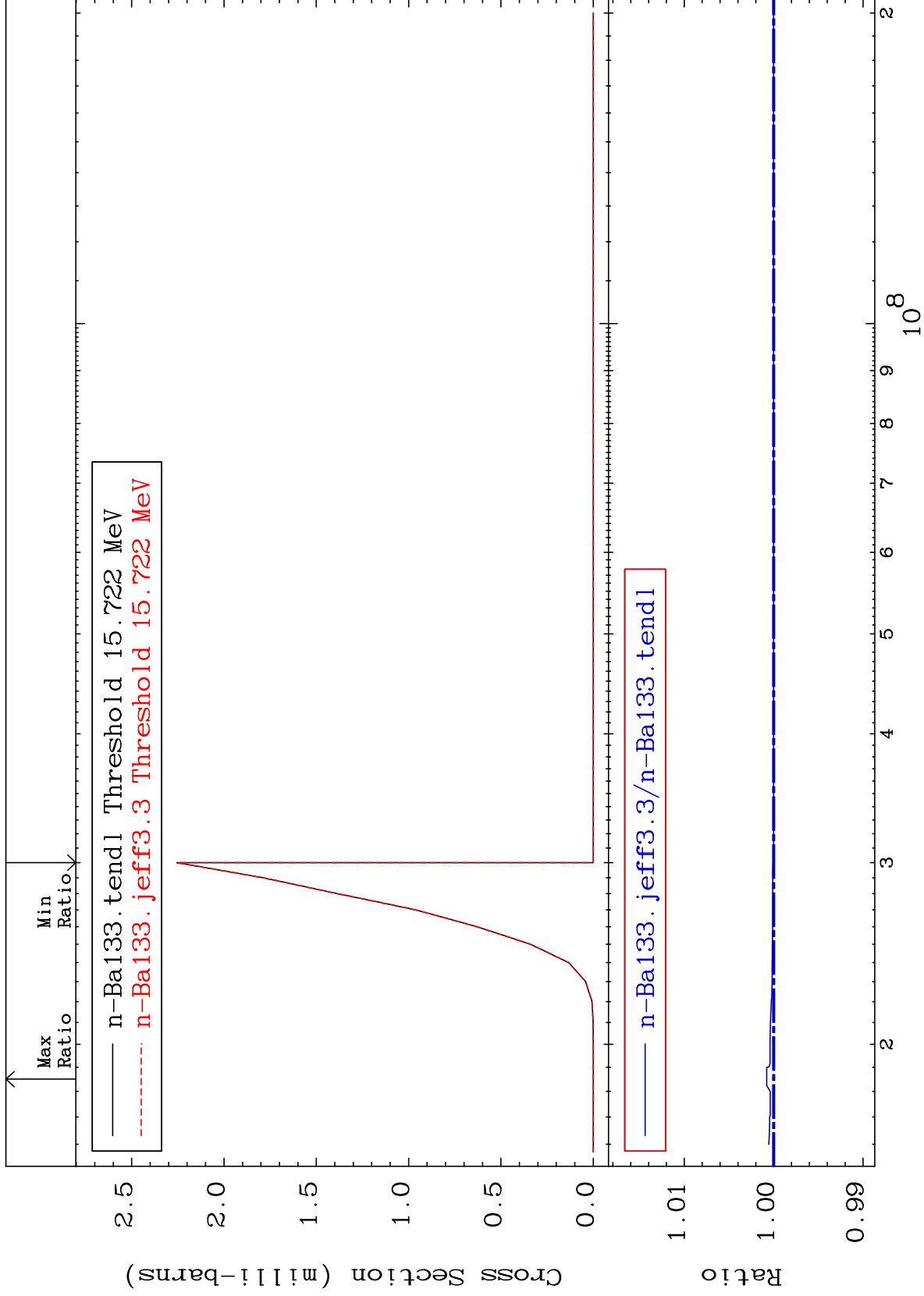


MAT 5634

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

56-Ba-133

Radionuclide Production Cross Section 0.000 To 0.079 %



73

Incident Energy (eV)

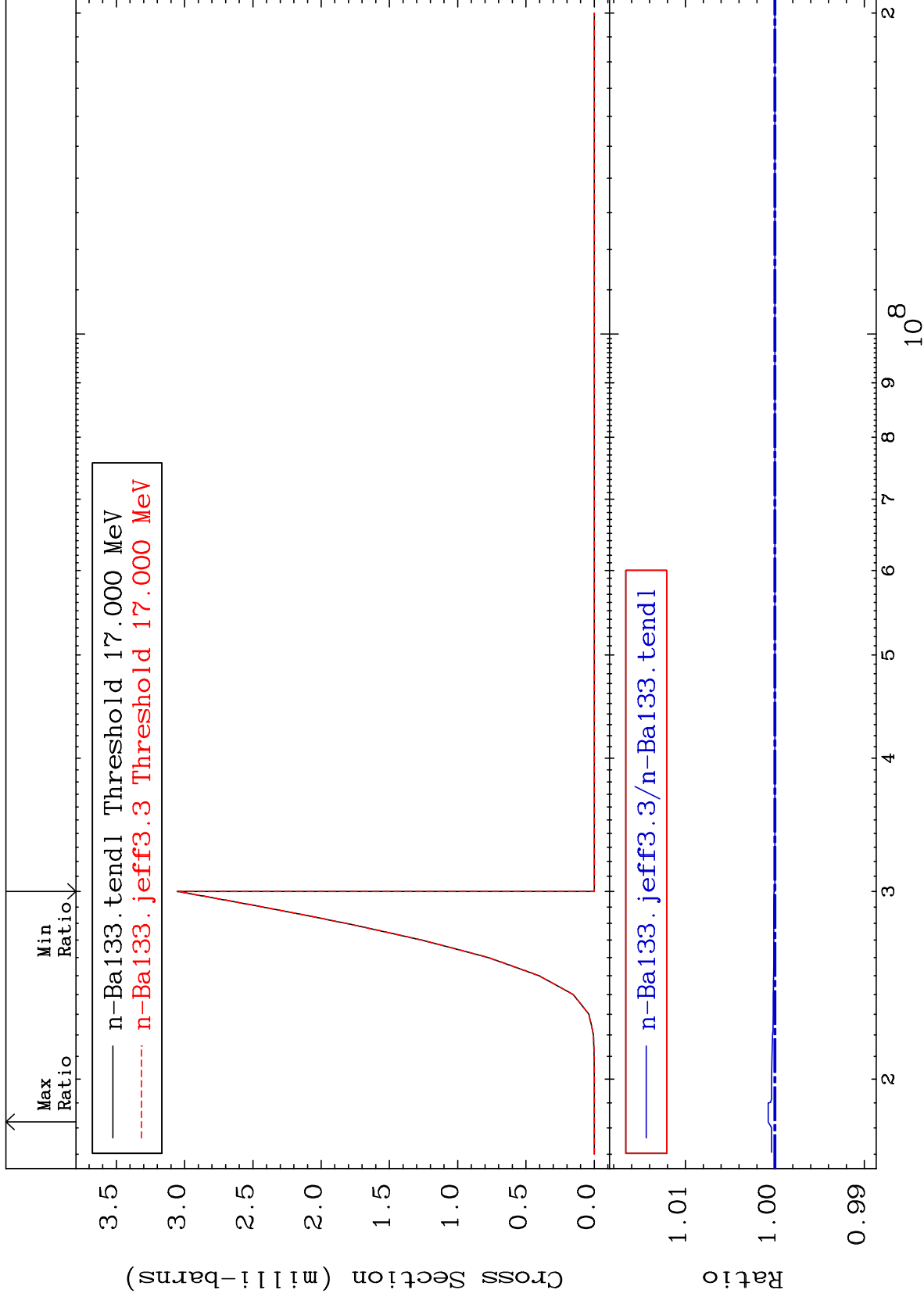
56-Ba-133

MAT 5634

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

56-Ba-133

Radionuclide Production Cross Section 0.000 To 0.076 %

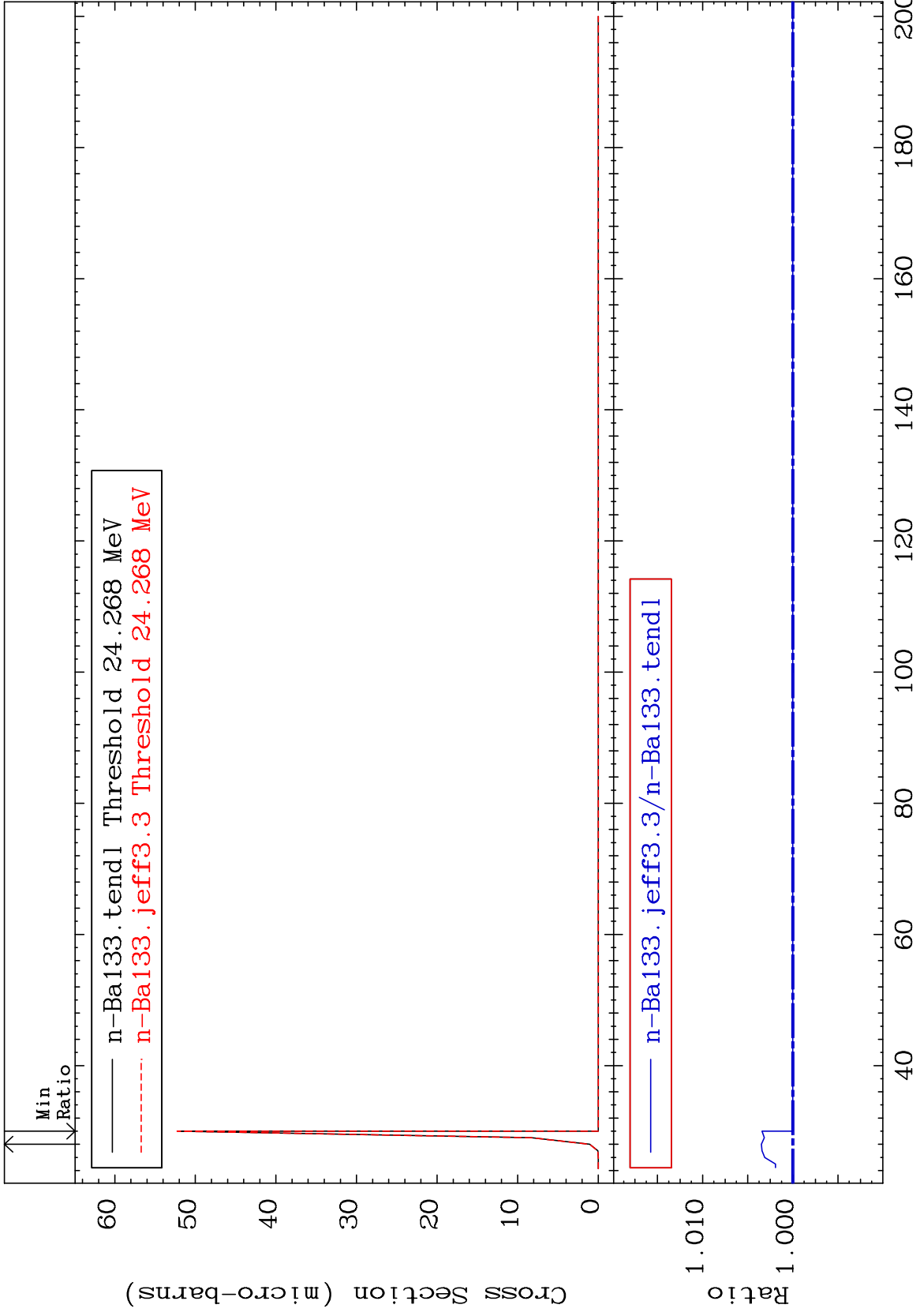


MAT 5634

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

56-Ba-133

Radionuclide Production Cross Section 0.000 To 0.349 %



75

Incident Energy (MeV)

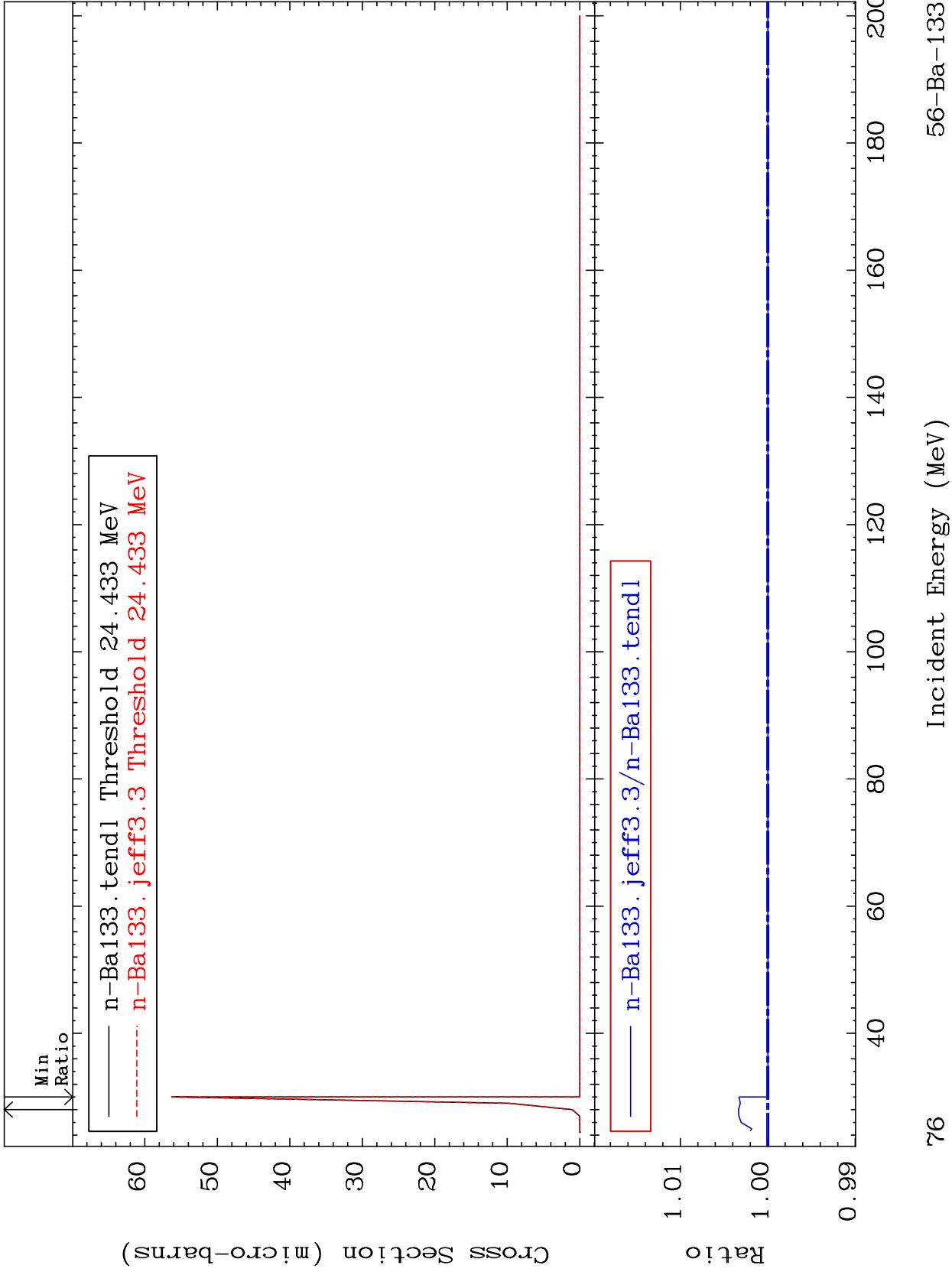
56-Ba-133

MAT 5634

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

56-Ba-133

Radionuclide Production Cross Section 0.000 To 0.336 %

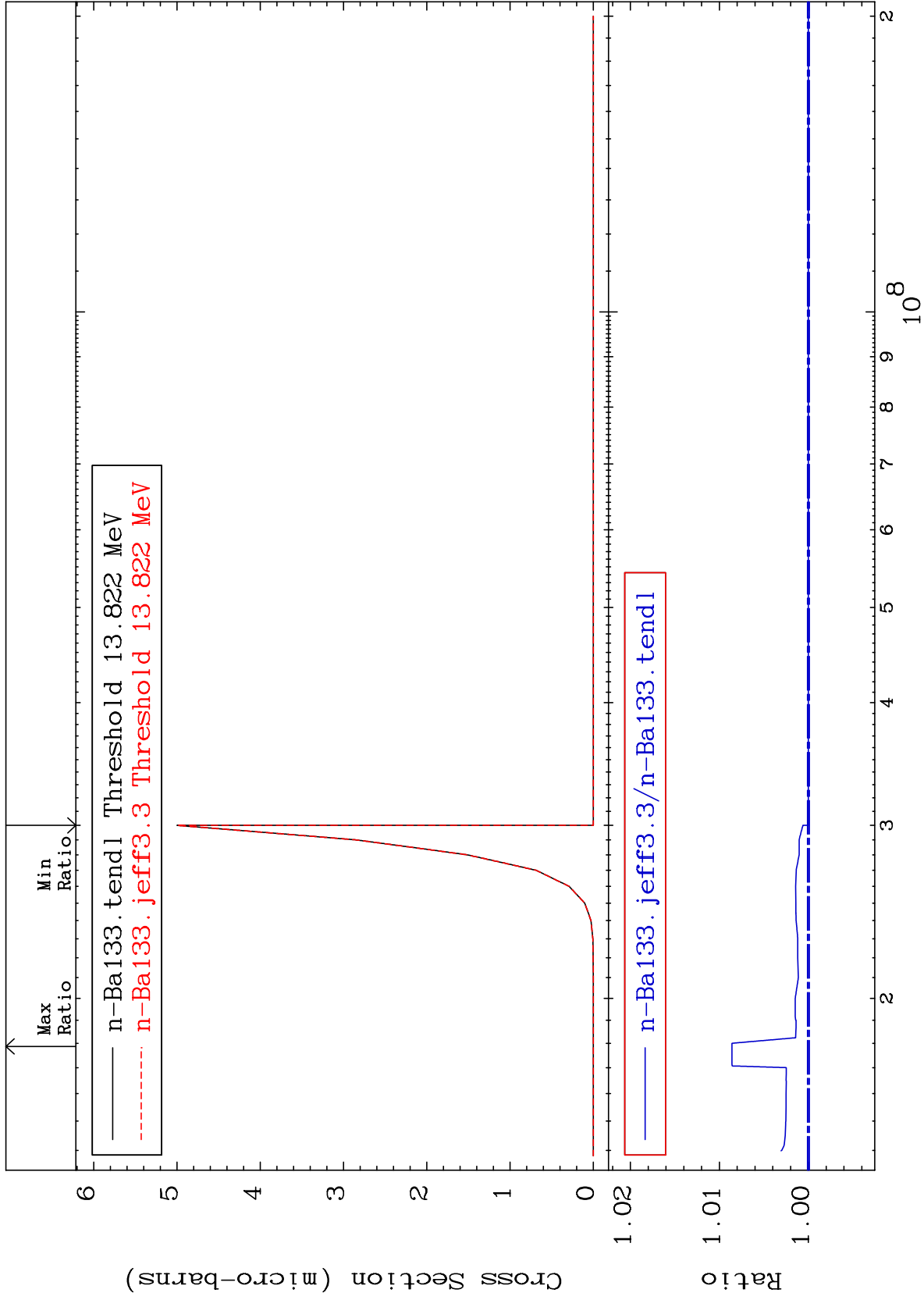


MAT 5634

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

56-Ba-133

Radionuclide Production Cross Section 0.000 To 0.859 %

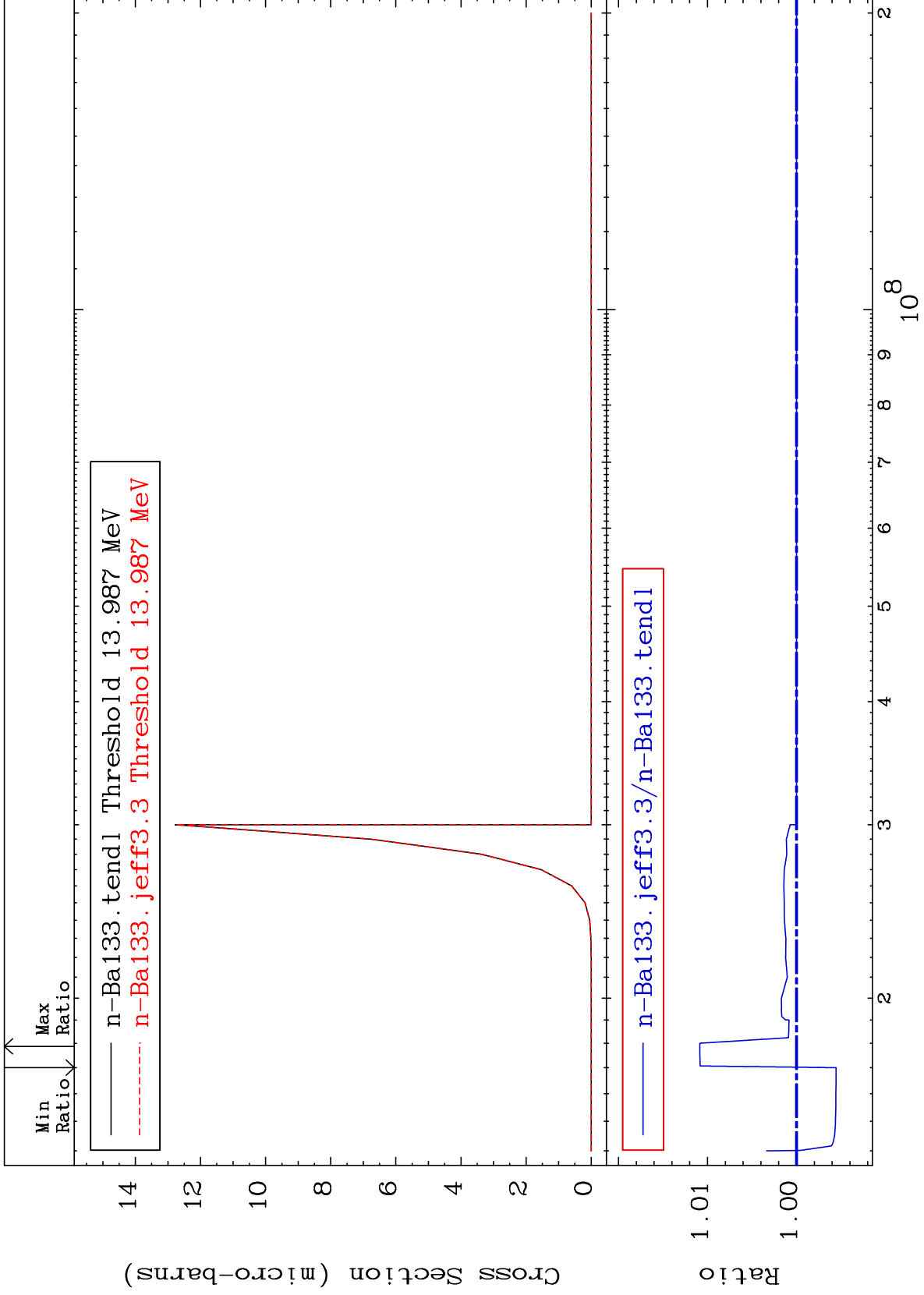


MAT 5634

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

56-Ba-133

Radionuclide Production Cross Section -0.444 To 1.086 %

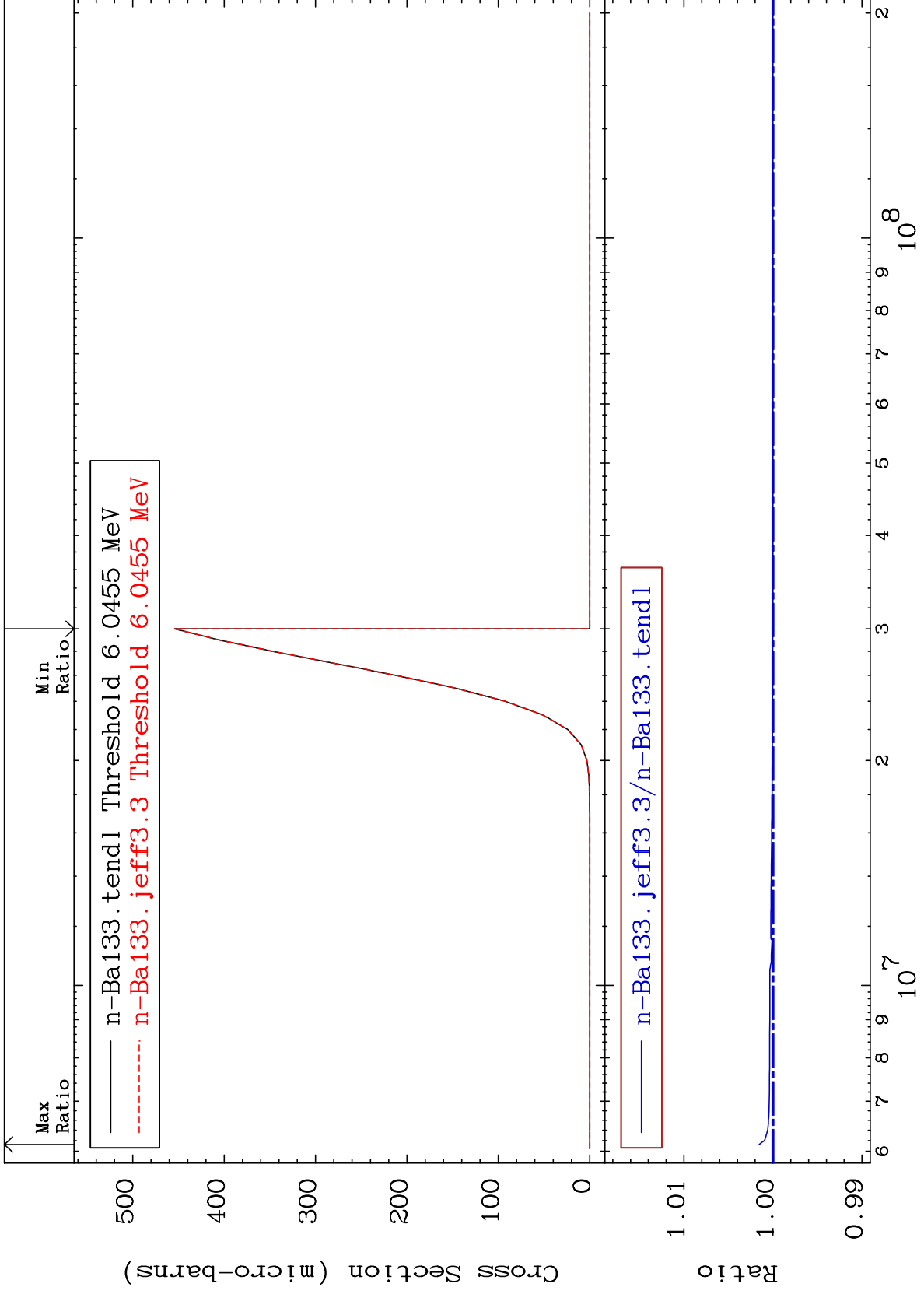


MAT 5634

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

56-Ba-133

Radionuclide Production Cross Section 0.000 To 0.156 %



79

Incident Energy (eV)

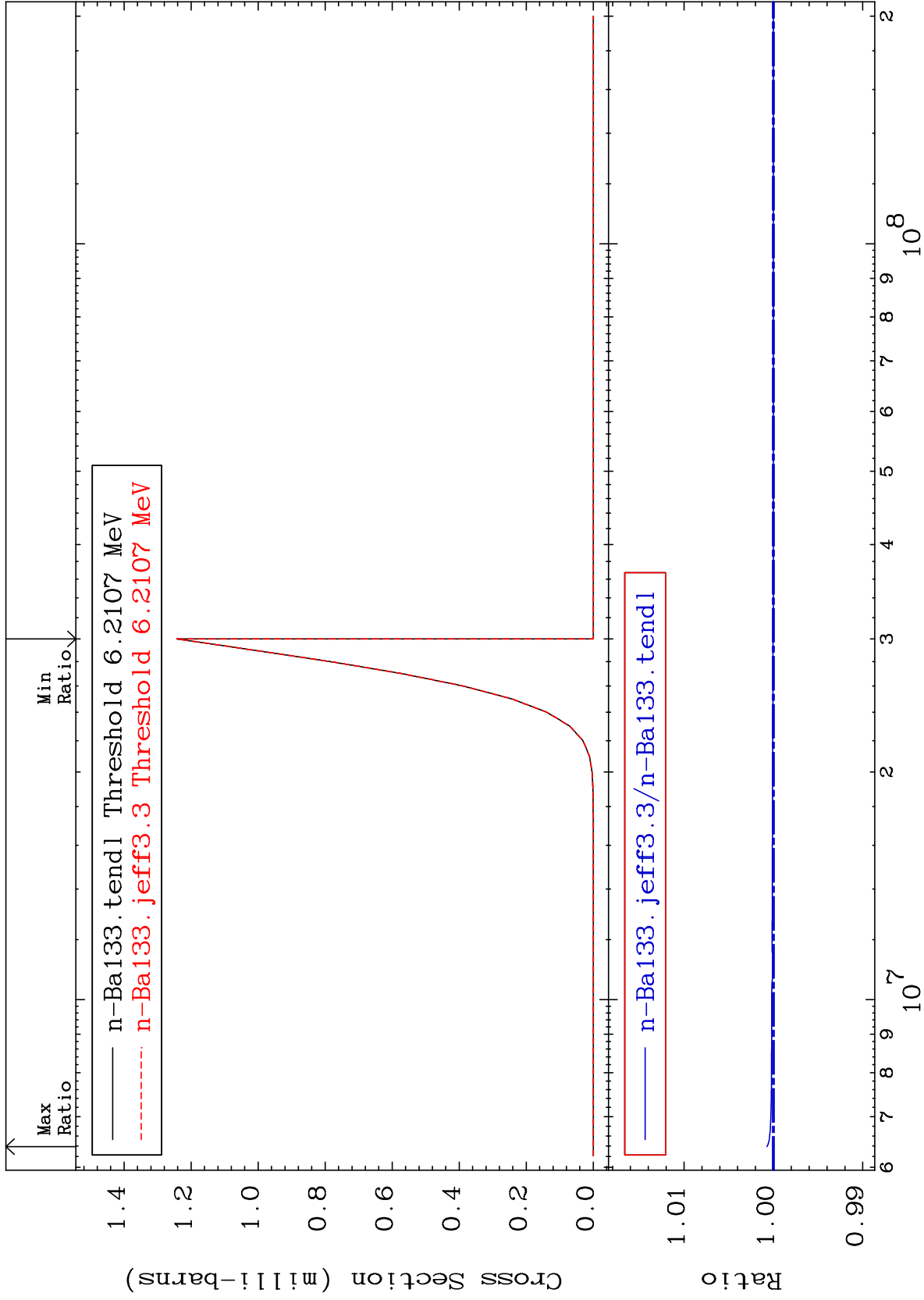
56-Ba-133

MAT 5634

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

56-Ba-133

Radionuclide Production Cross Section 0.000 To 0.072 %



80

Incident Energy (eV)

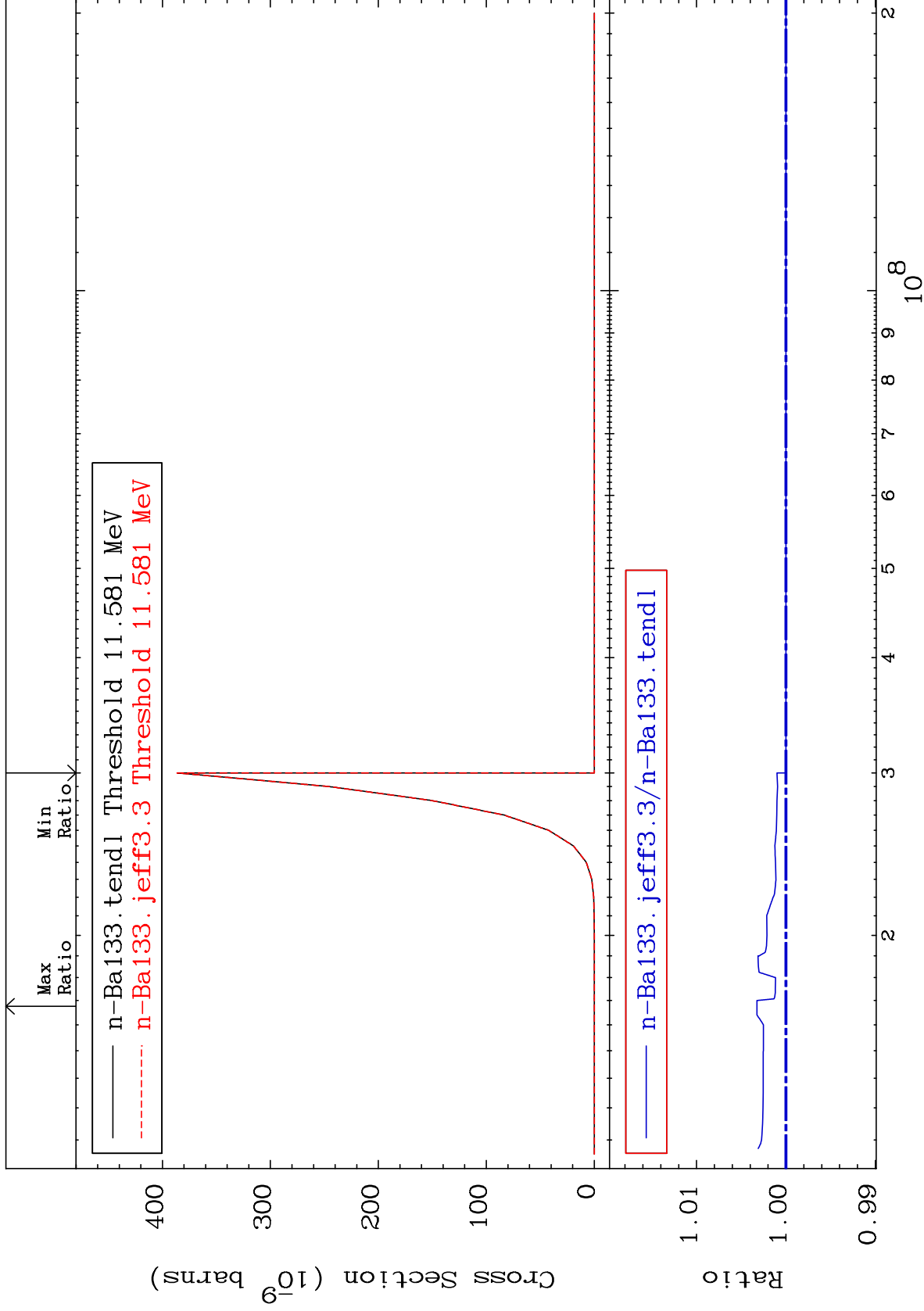
56-Ba-133

MAT 5634

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

56-Ba-133

Radionuclide Production Cross Section 0.000 To 0.324 %



MAT 5634

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

56-Ba-133

Radionuclide Production Cross Section -0.032 To 0.287 %

