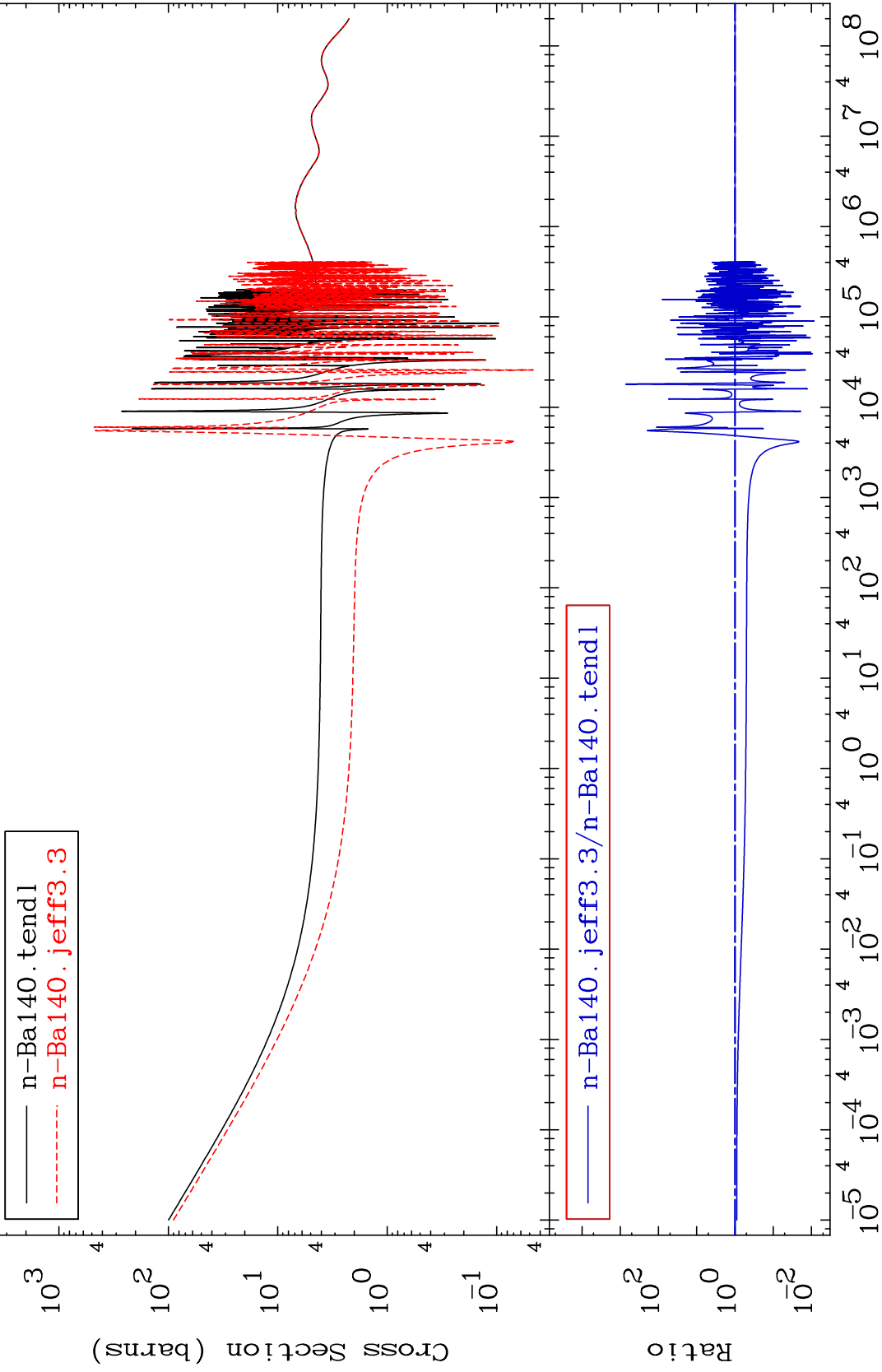


MAT 5655

Total
Cross Section

56-Ba-140
-99.14 To 9999. %



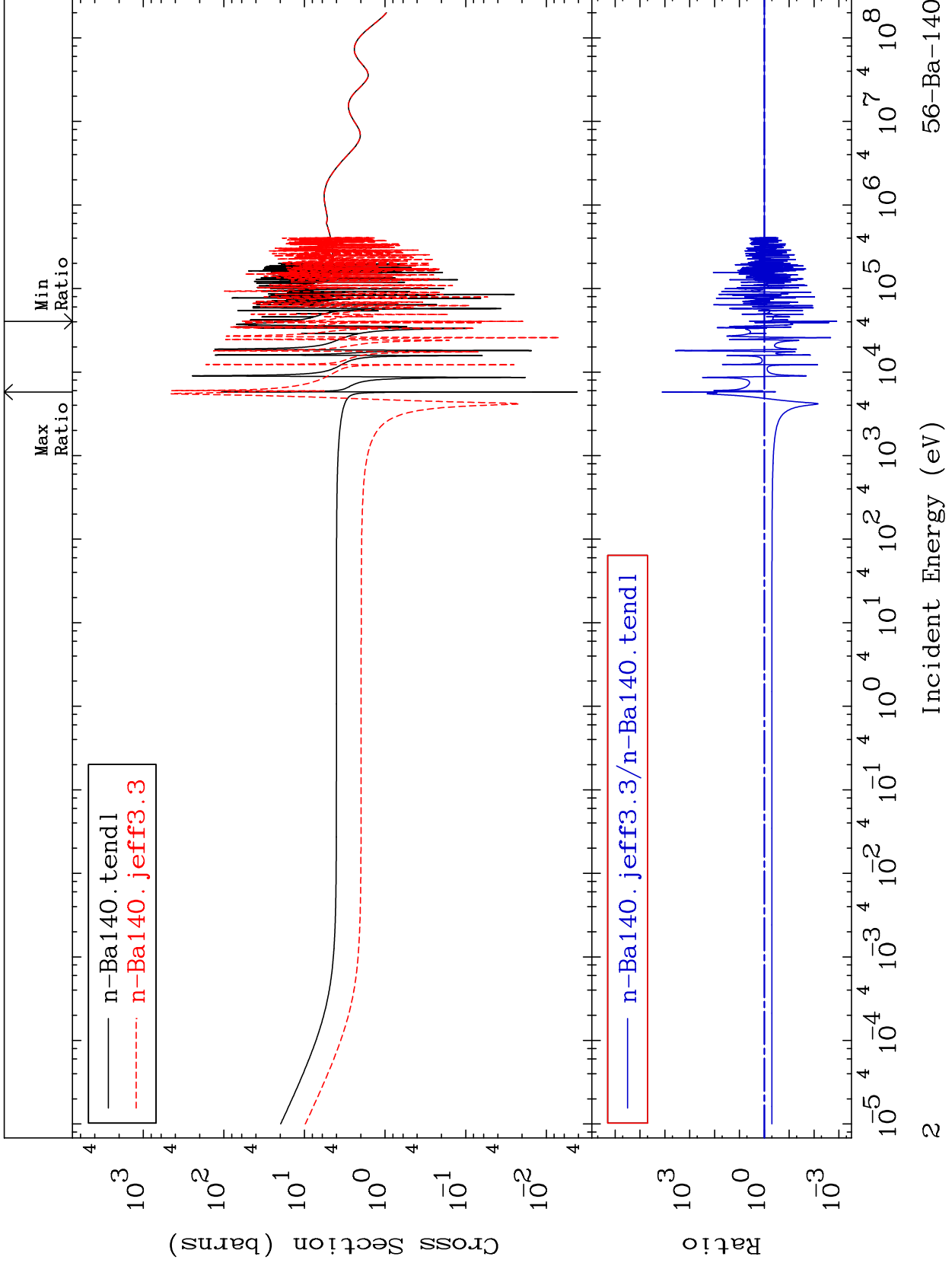
Incident Energy (eV)

56-Ba-140

MAT 5655

Elastic
Cross Section

56-Ba-140
-99.88 To 9999. %

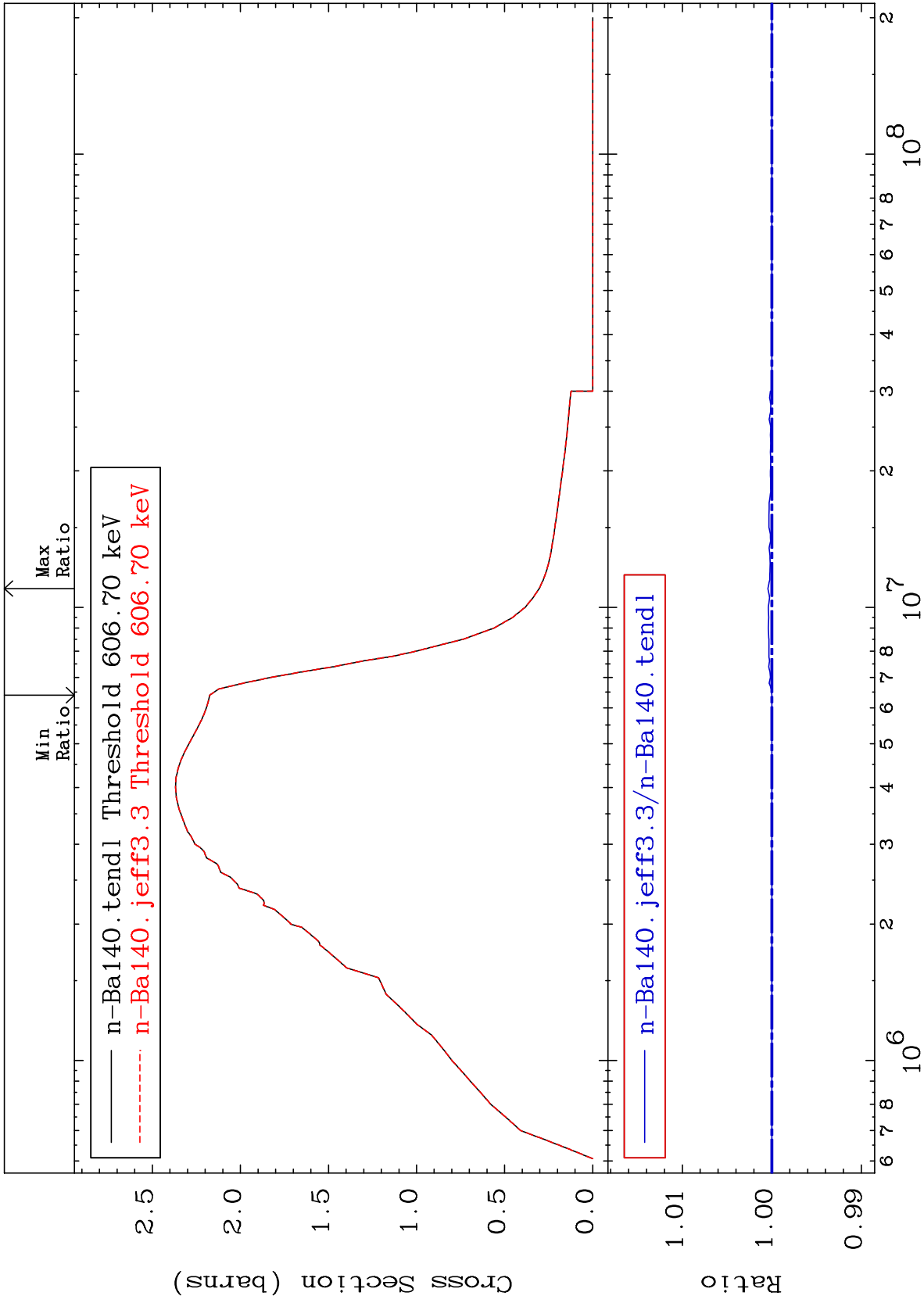


MAT 5655

56-Ba-140

-0.001 To 0.044 %

Inelastic
Cross Section



3

Incident Energy (eV)

56-Ba-140

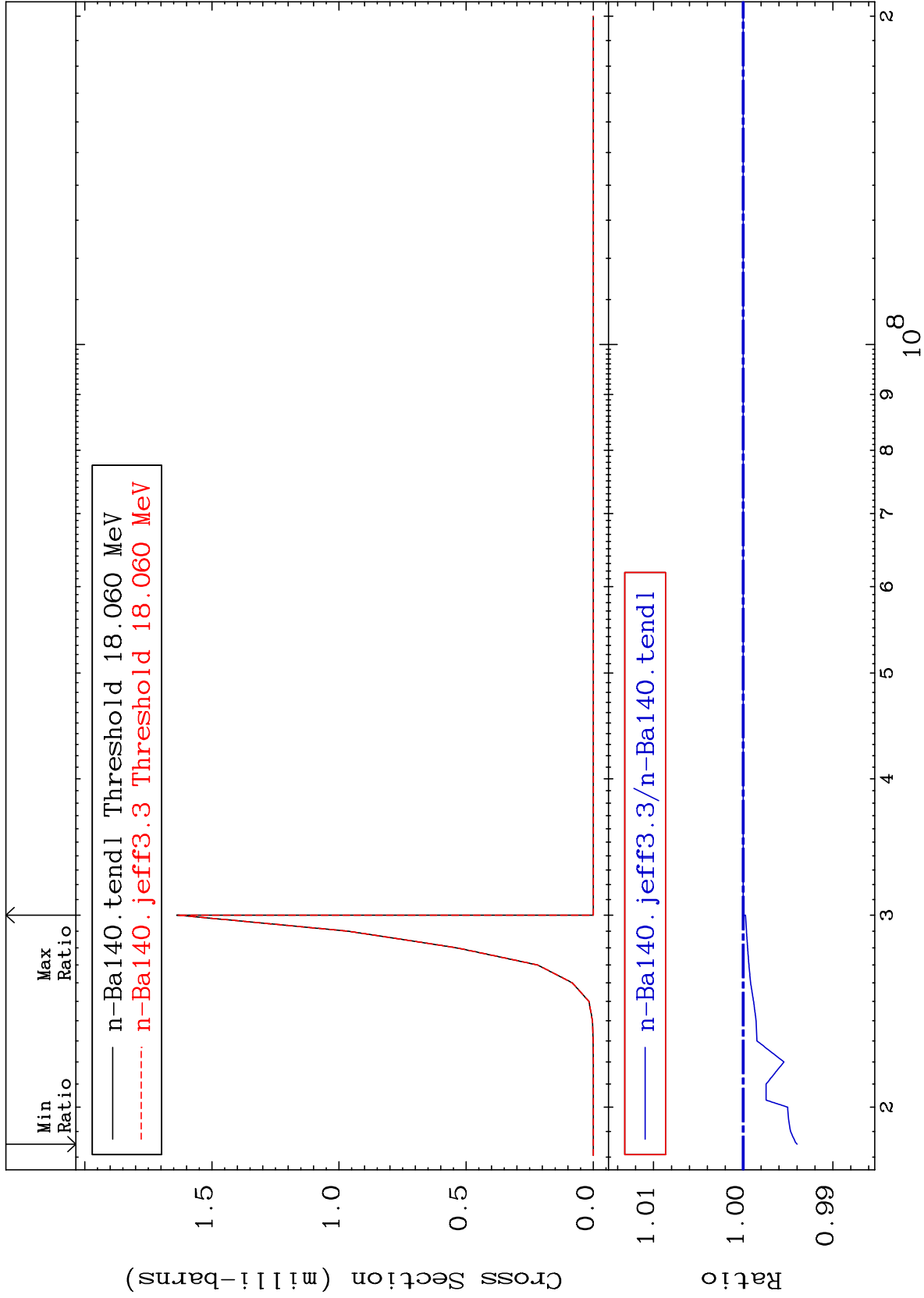
MAT 5655

(n,2n) d

56-Ba-140

Cross Section

-0.602 To 0.000 %



4

56-Ba-140

56-Ba-140

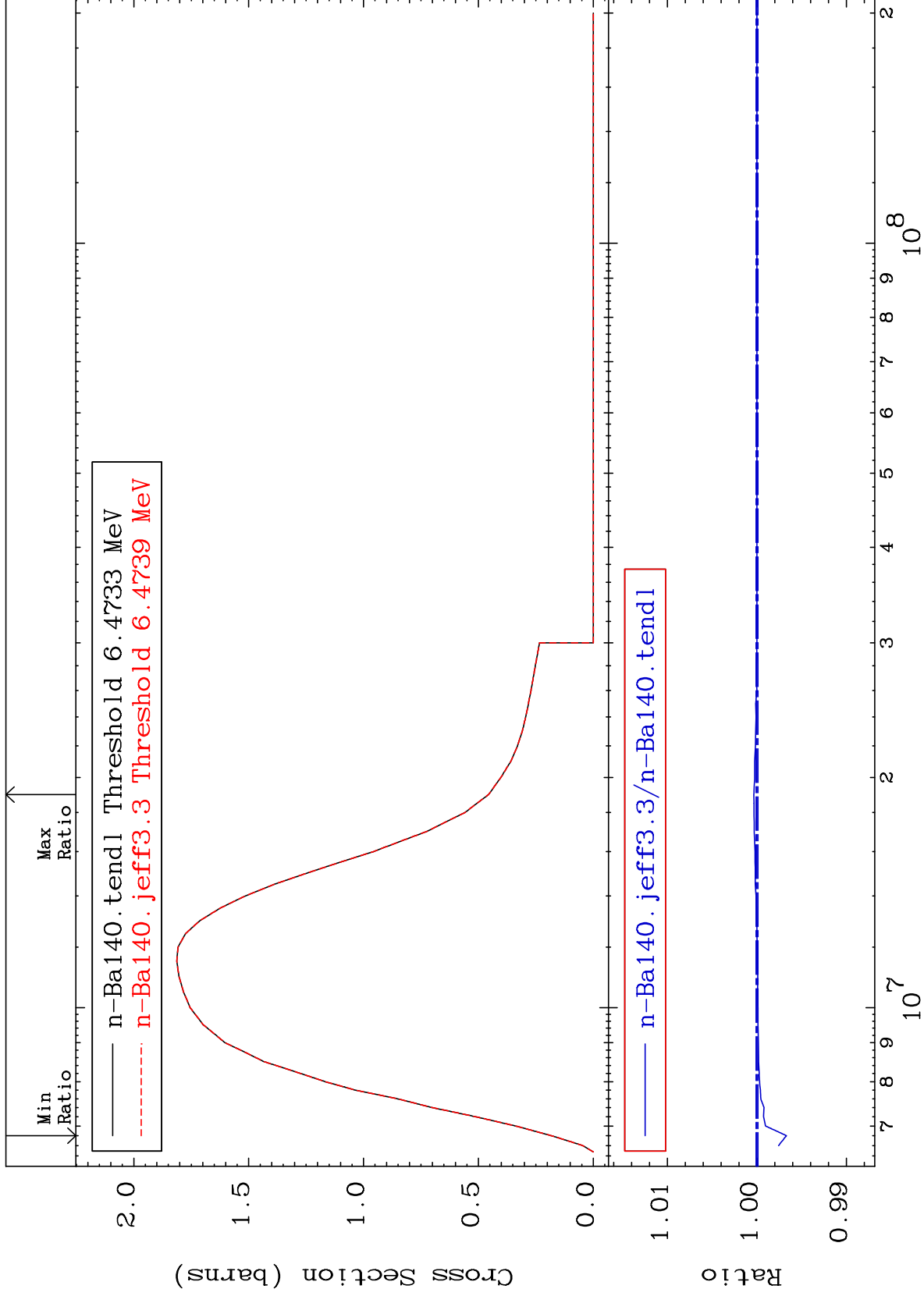
MAT 5655

(n,2n)

56-Ba-140

Cross Section

-0.329 To 0.035 %



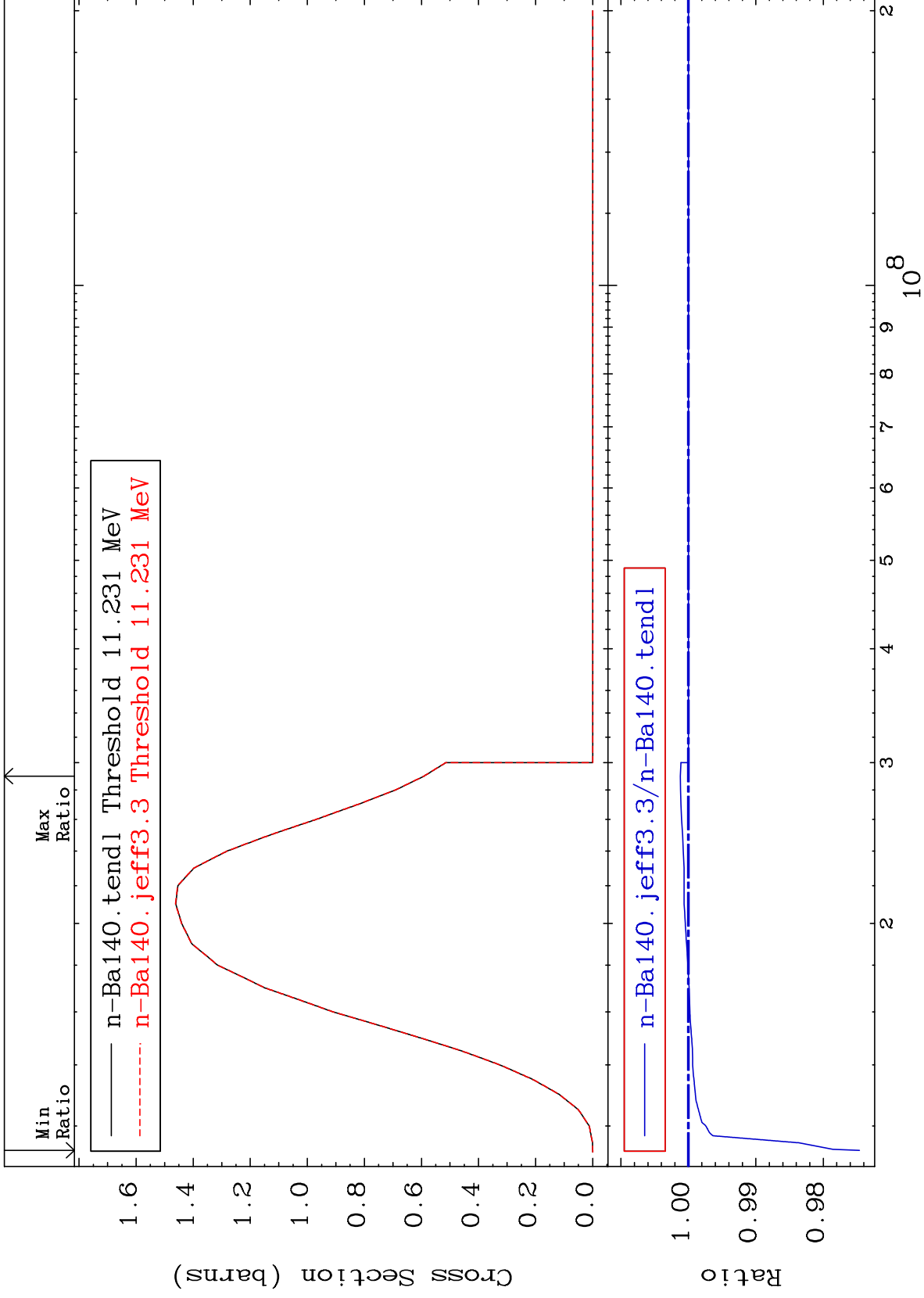
5

Incident Energy (eV)

56-Ba-140

Cross Section

-2.536 To 0.119 %



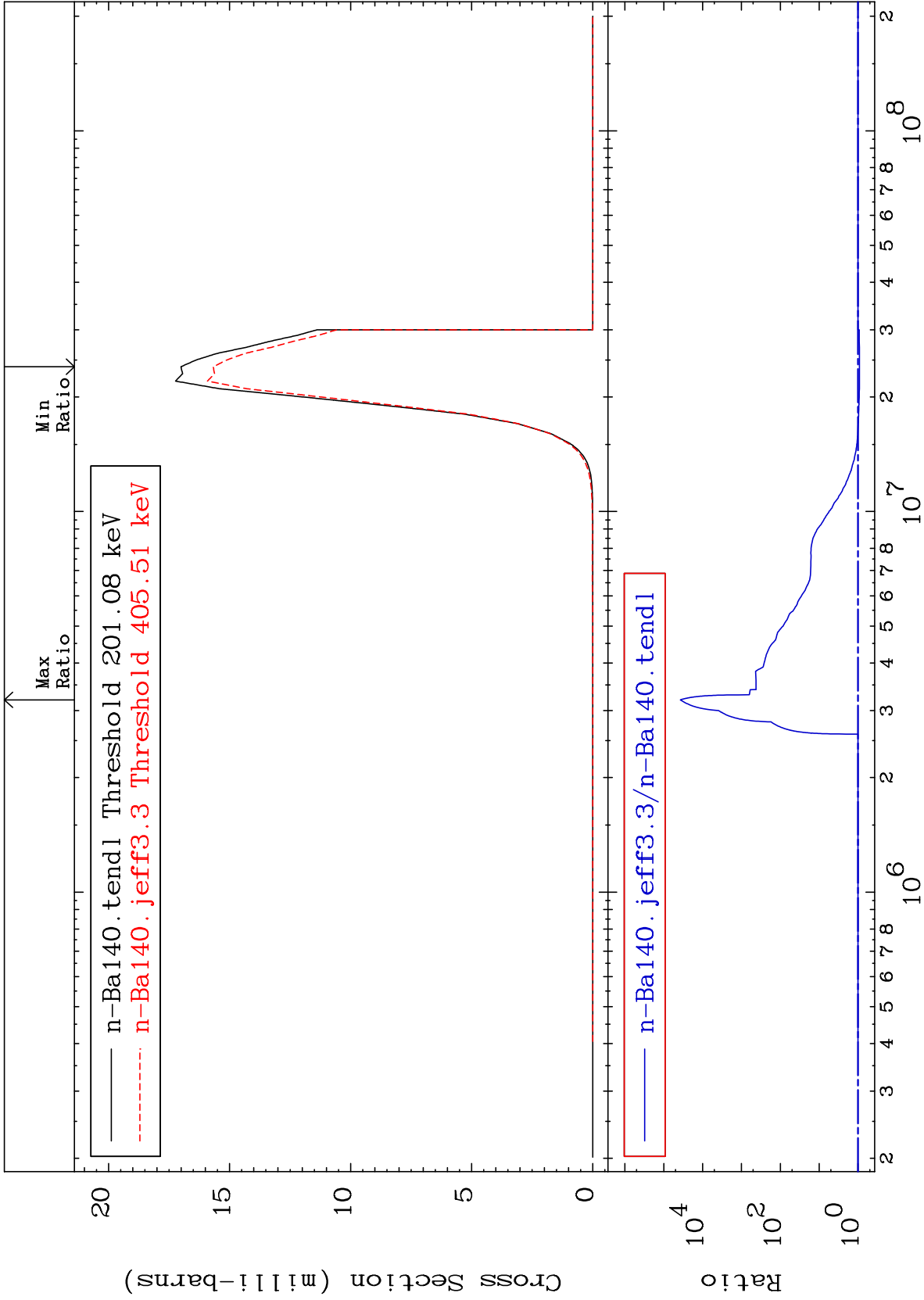
MAT 5655

(n, n') α

56-Ba-140

-7.839 To 9999. %

Cross Section

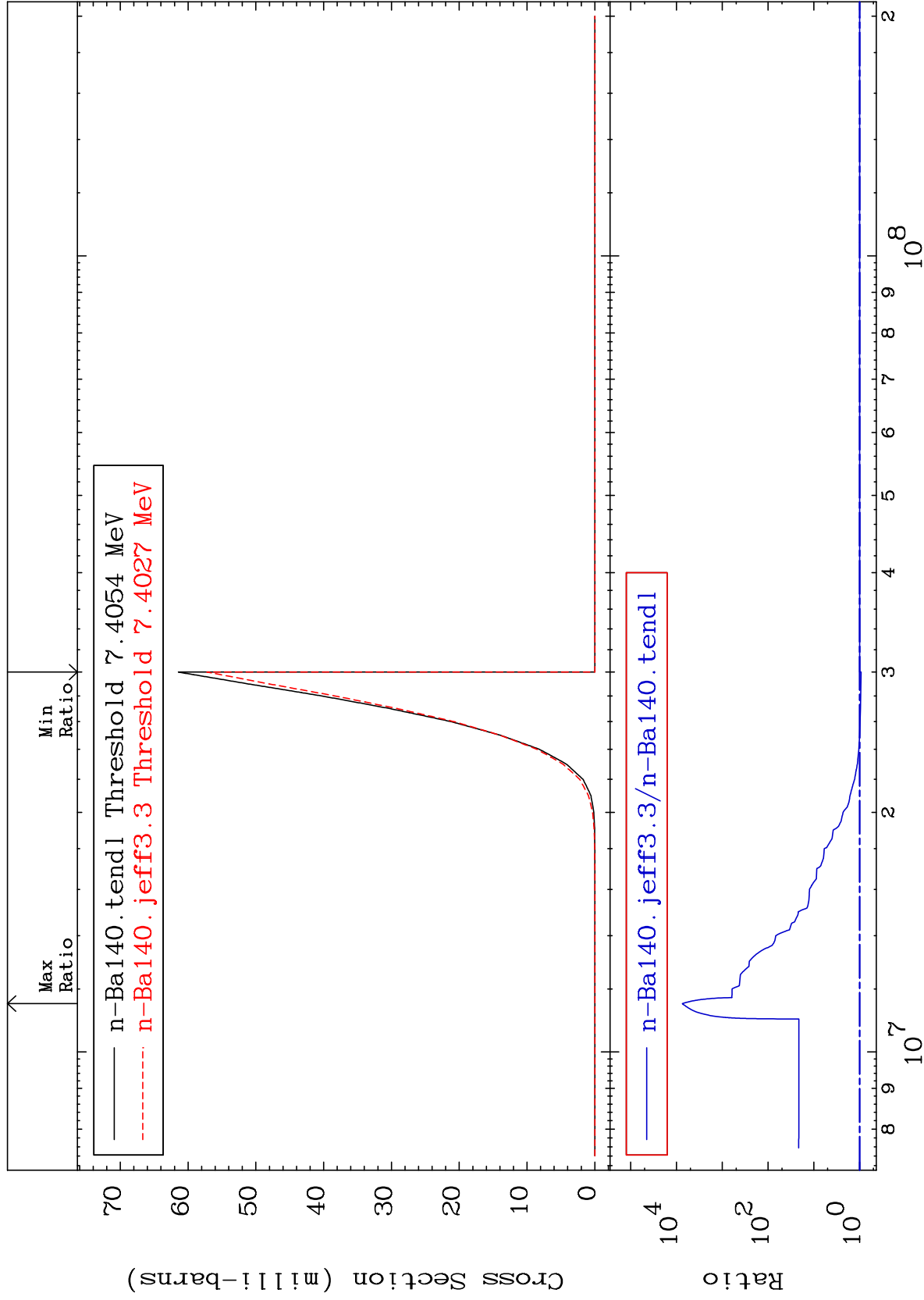


MAT 5655

56-Ba-140

(n,2n) α
Cross Section

-6.885 To 9999. %



8

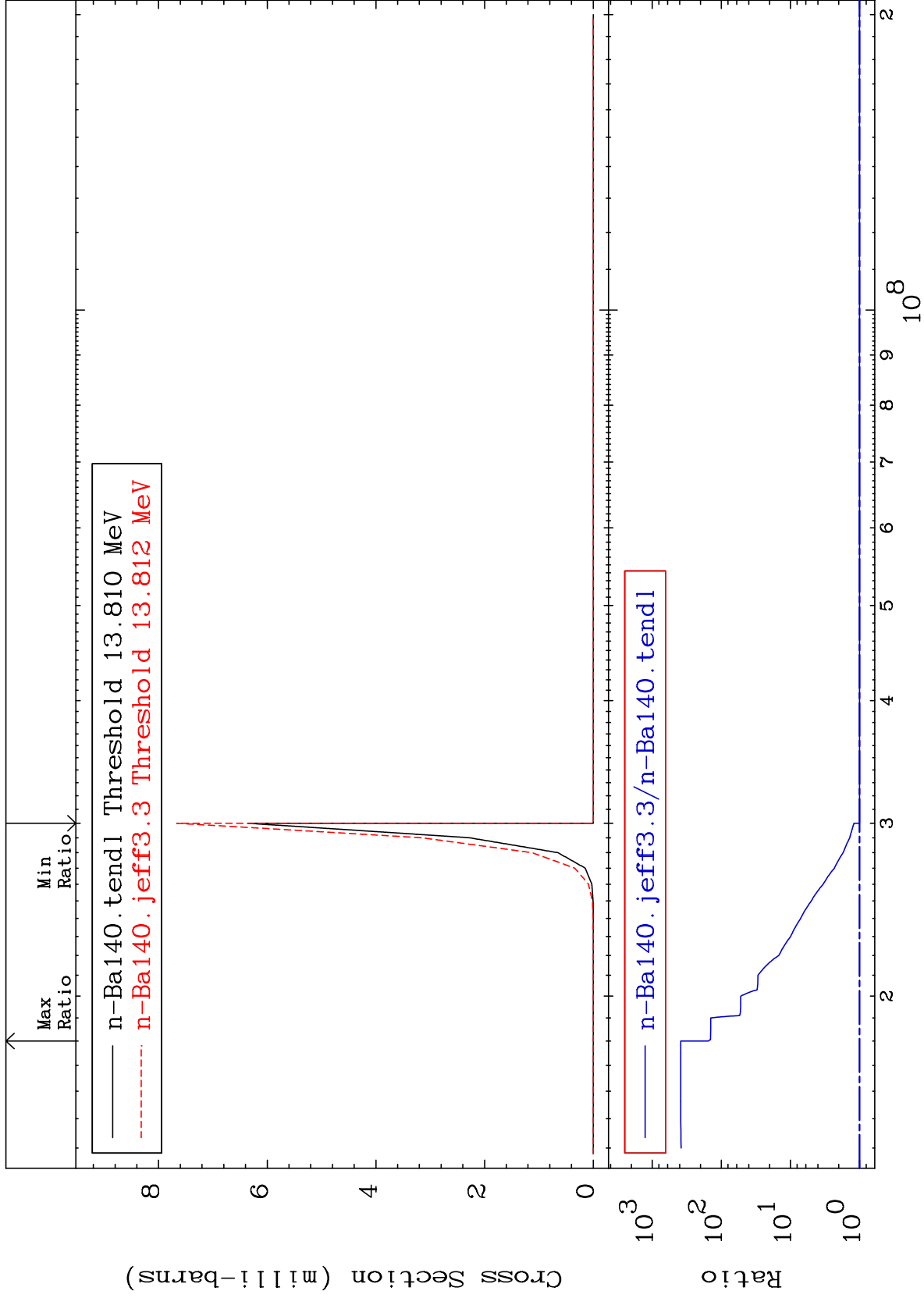
Incident Energy (eV)

56-Ba-140

MAT 5655

(n,3n) α
Cross Section

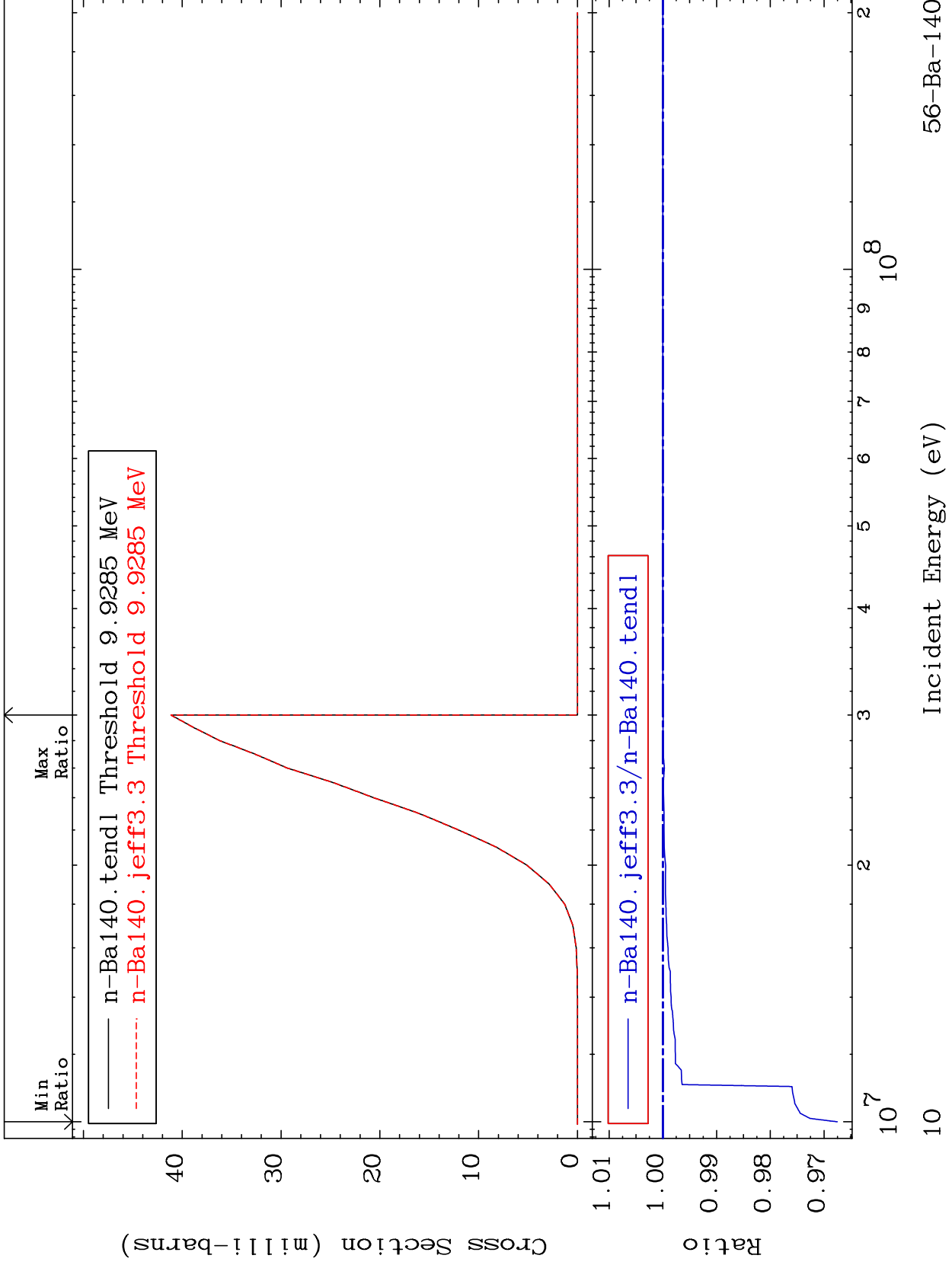
56-Ba-140
To 9999. %



MAT 5655

(n,n') p
Cross Section

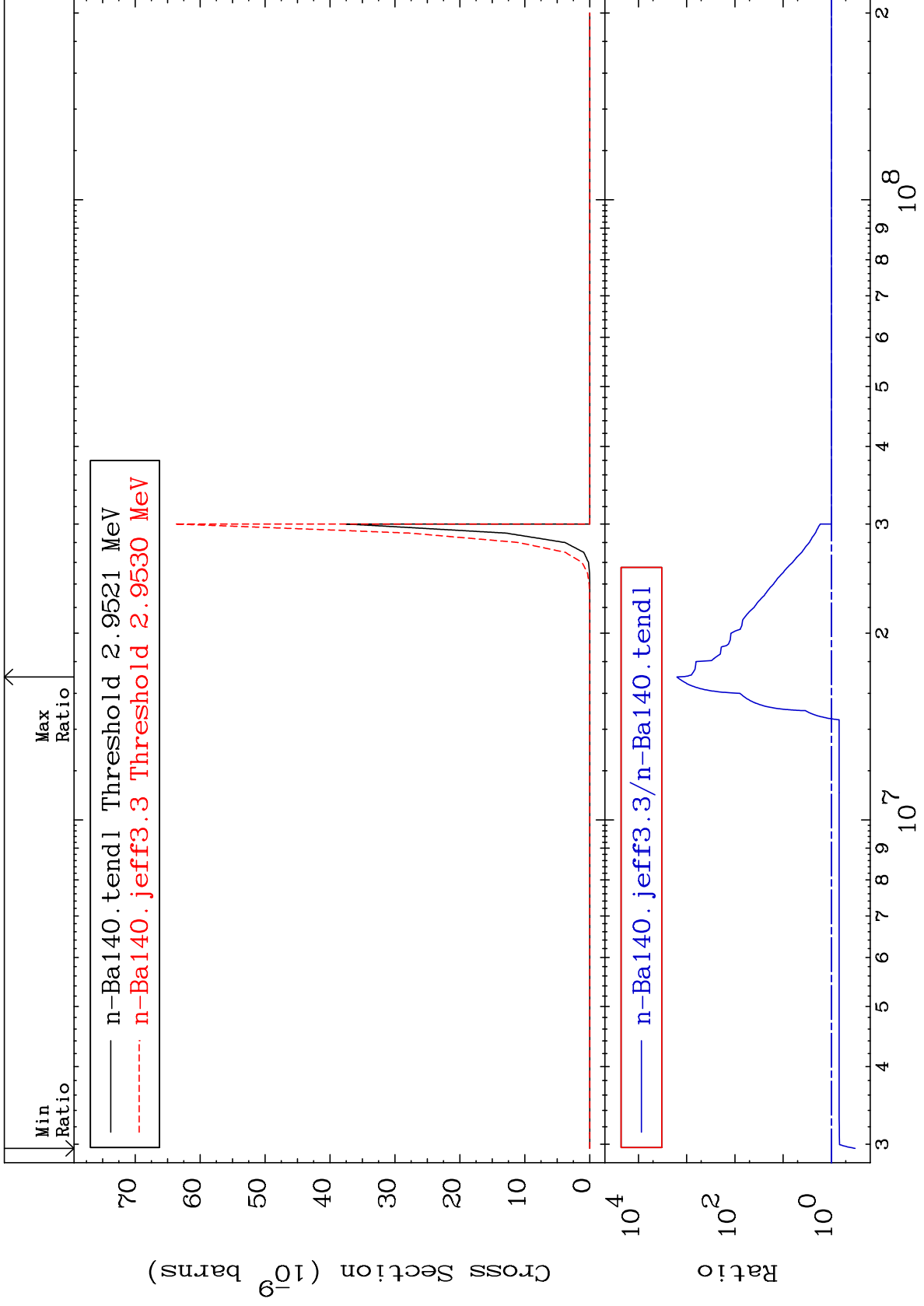
56-Ba-140
-3.248 To 0.000 %



MAT 5655

(n, n') 2α
Cross Section

56-Ba-140
-67.83 To 9999. %



11

Incident Energy (eV)

56-Ba-140

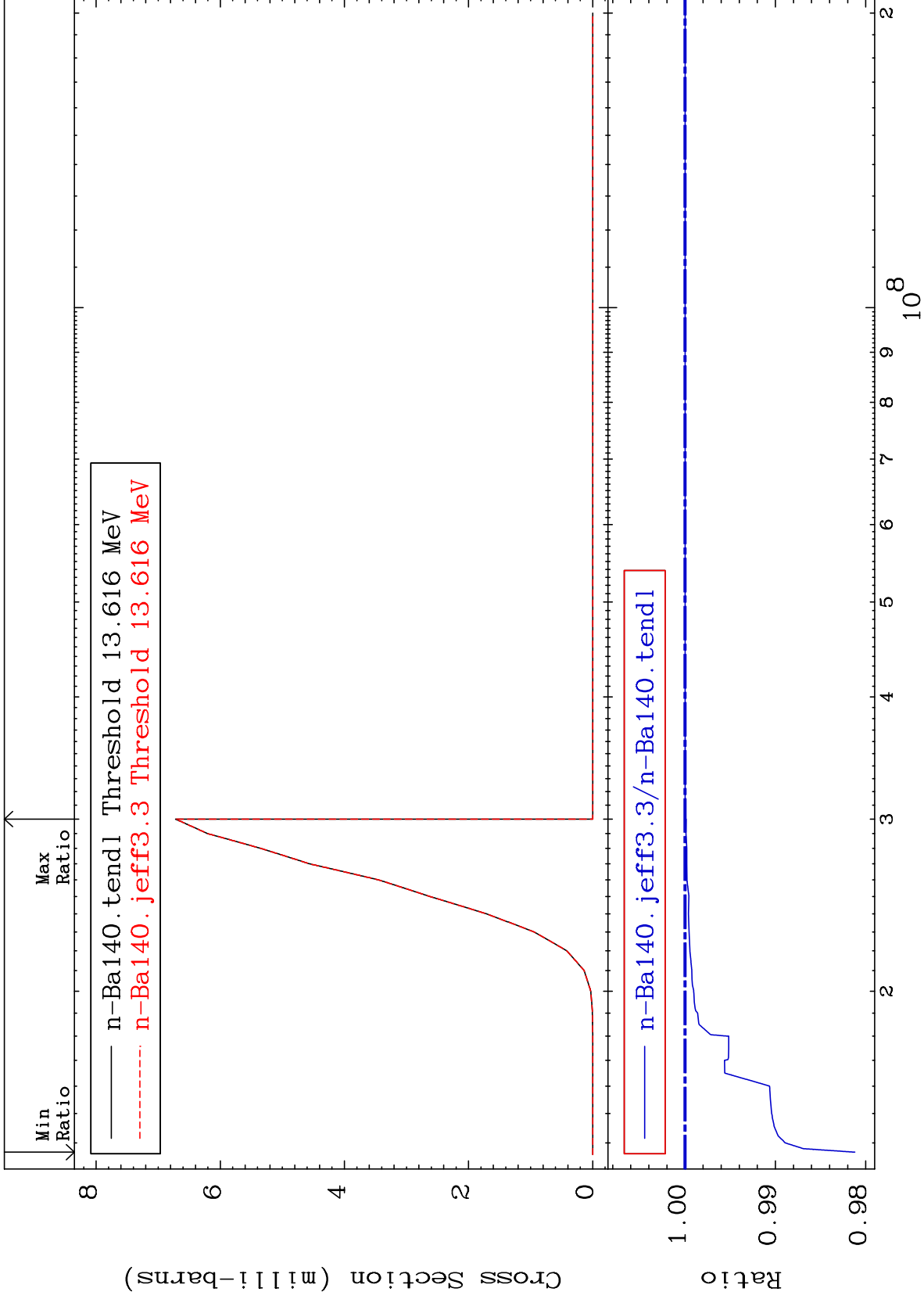
MAT 5655

(n,n') d

56-Ba-140

Cross Section

-1.878 To 0.000 %



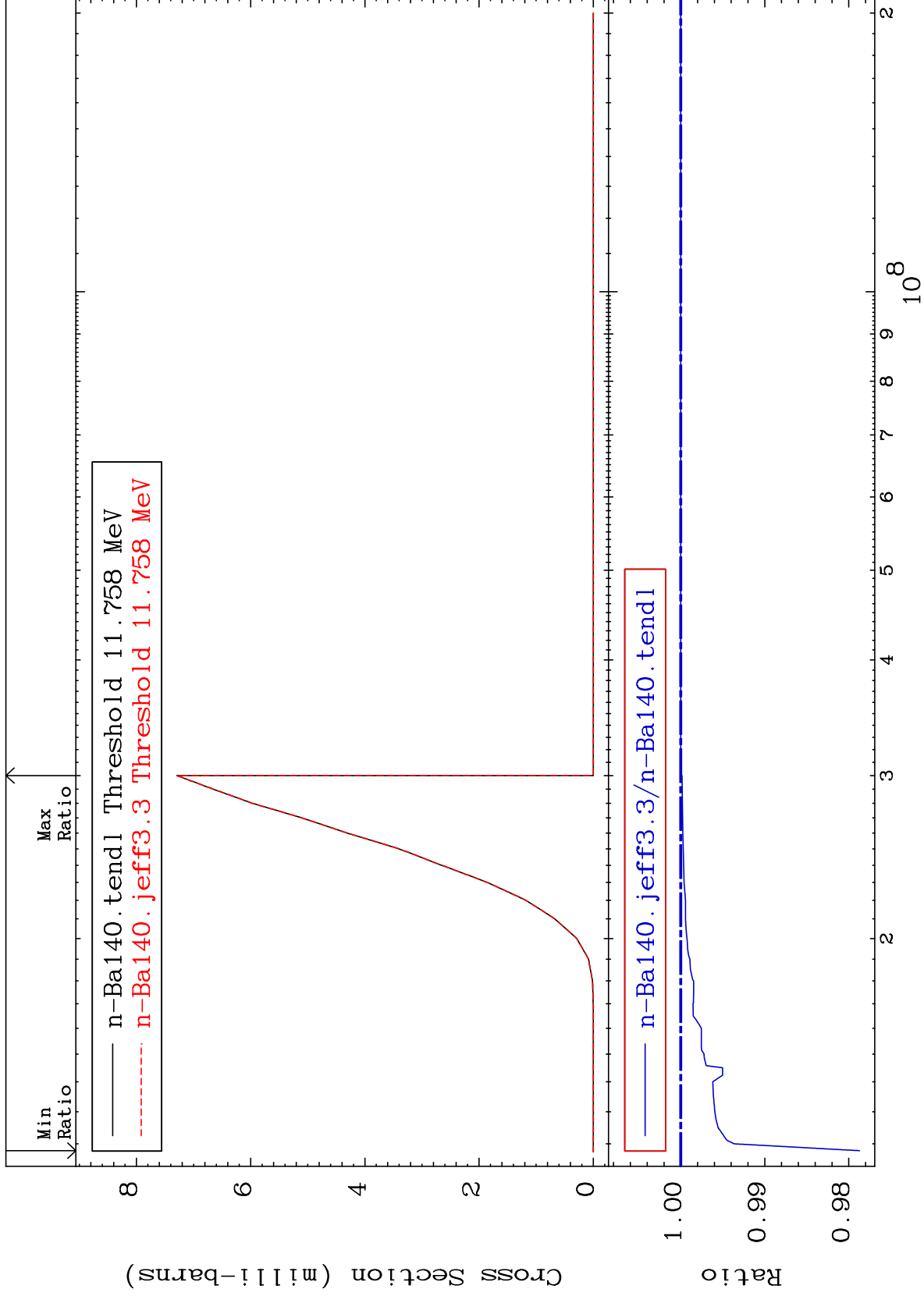
MAT 5655

(n,n') t

56-Ba-140

Cross Section

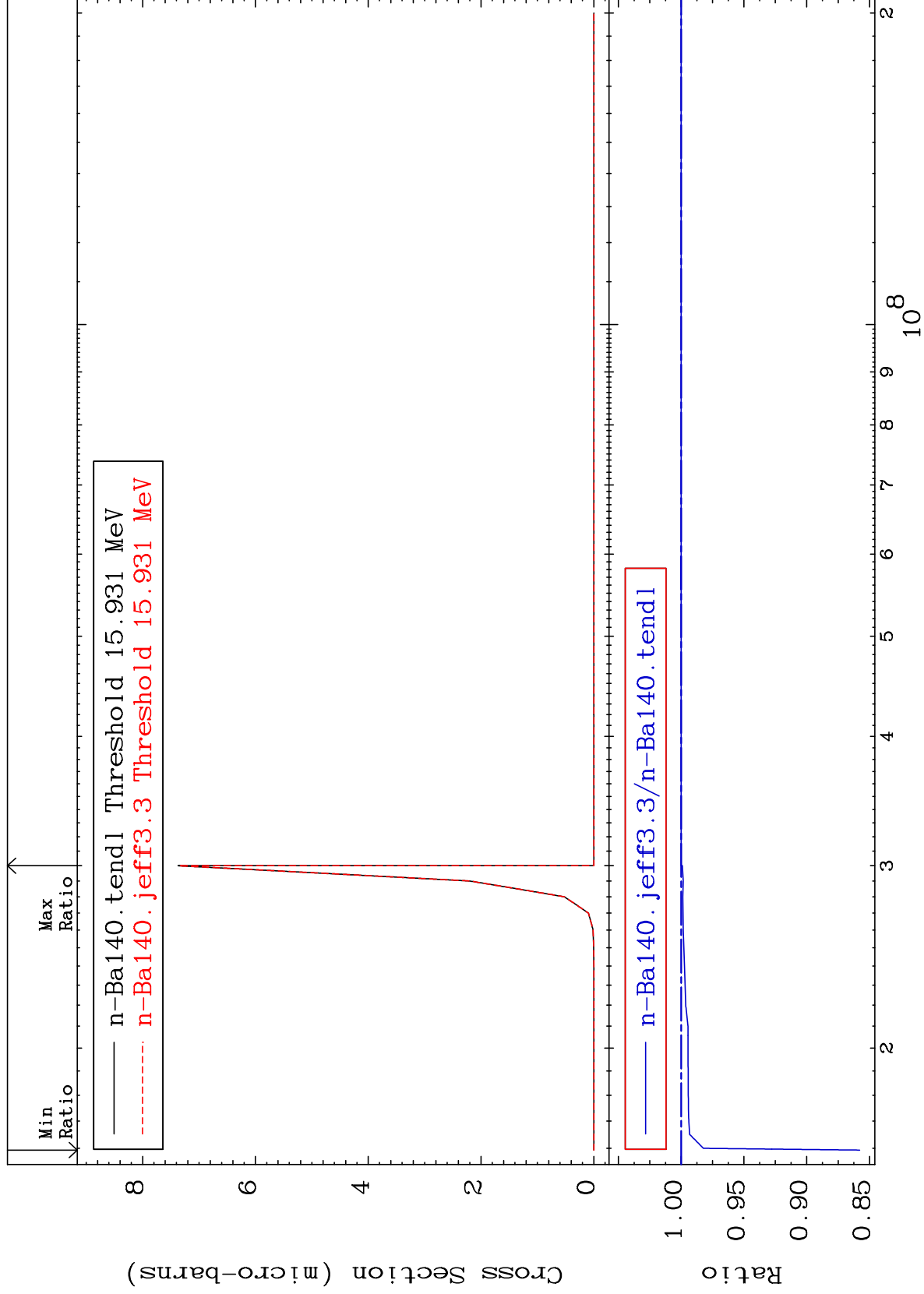
-2.128 To 0.000 %



MAT 5655

(n, n') He-3
Cross Section

56-Ba-140
-14.21 To 0.000 %



14

Incident Energy (eV)

56-Ba-140

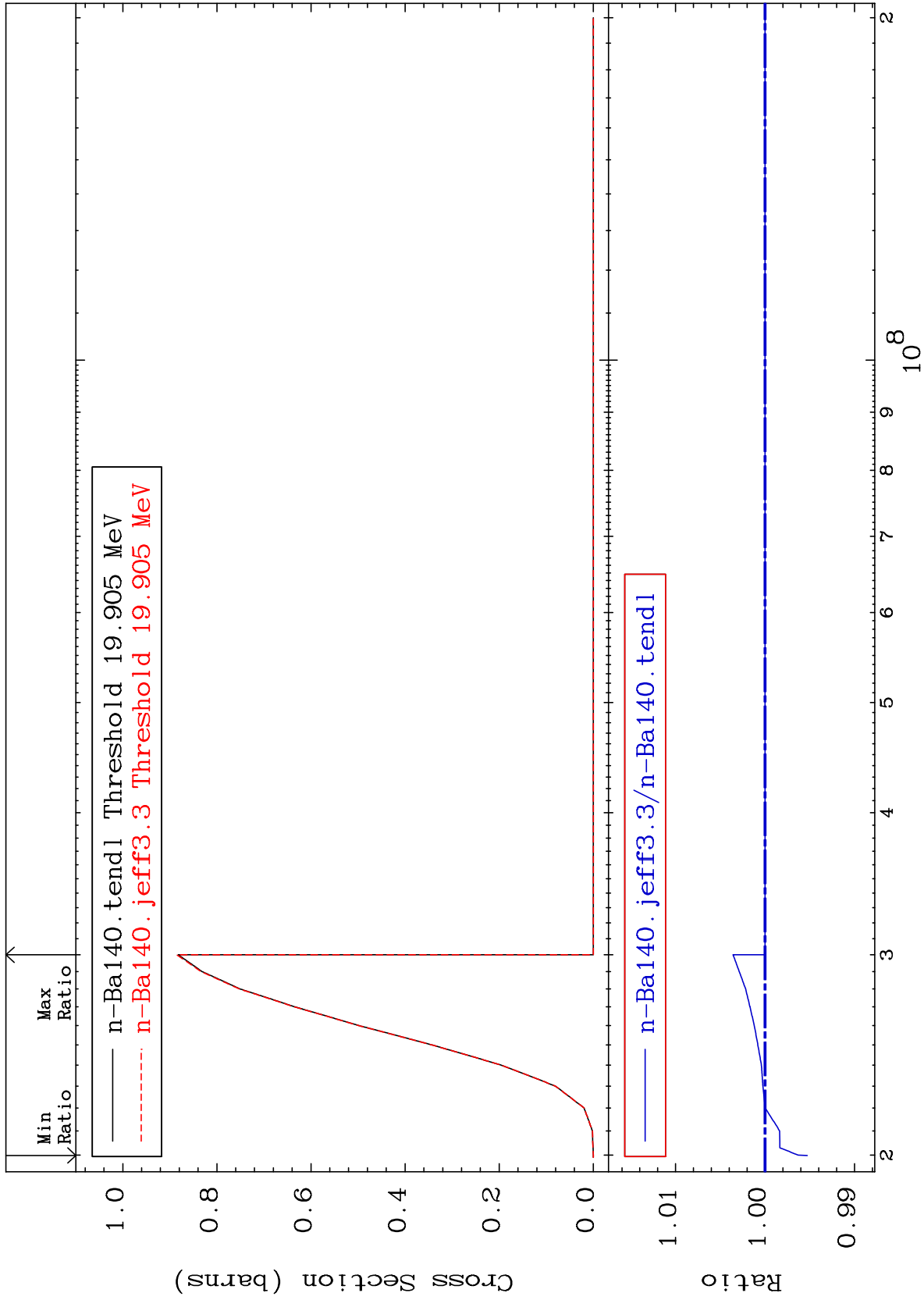
MAT 5655

(n,4n)

56-Ba-140

Cross Section

-0.472 To 0.357 %



15

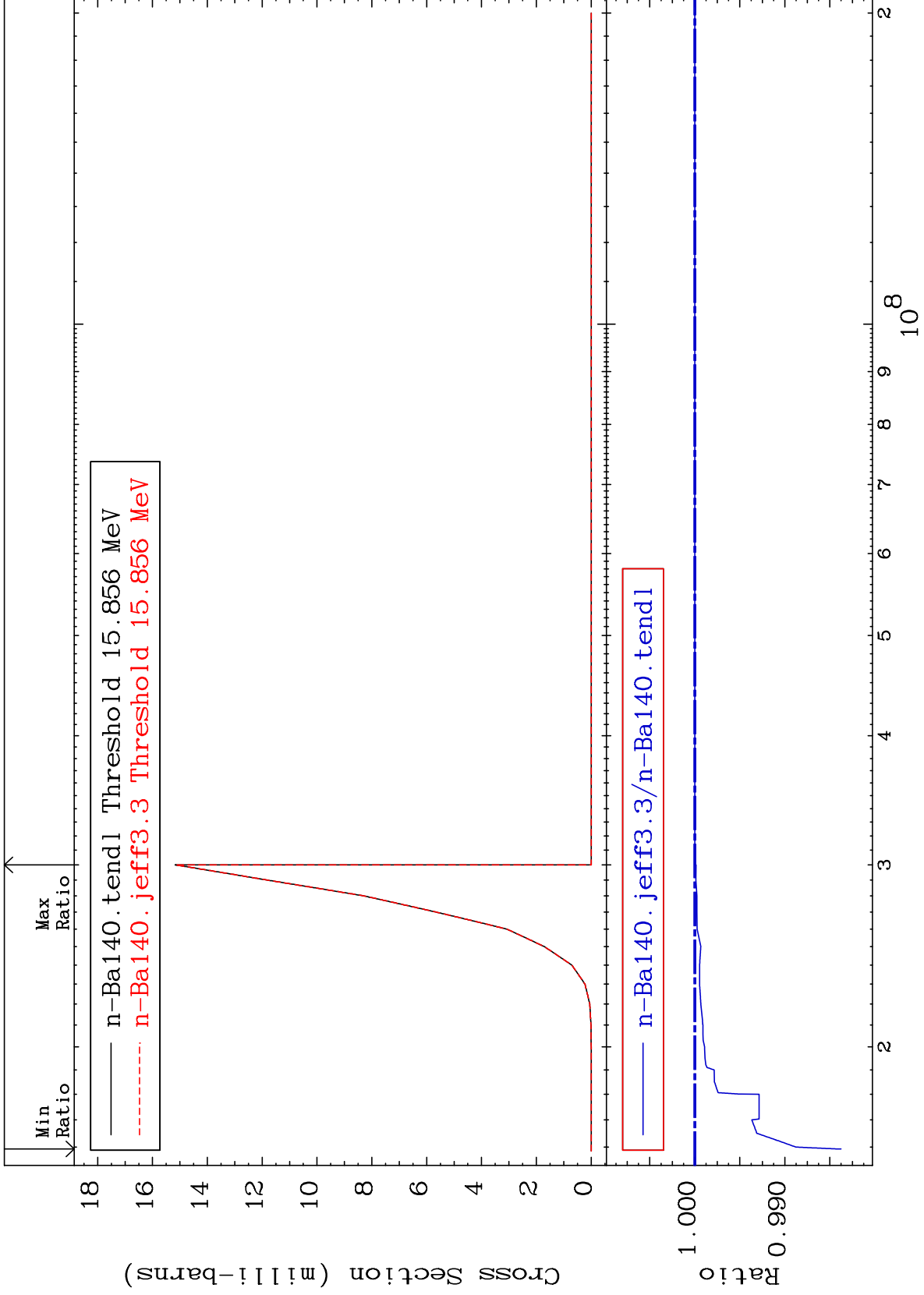
56-Ba-140

56-Ba-140

MAT 5655

(n,2n) p
Cross Section

56-Ba-140
-1.625 To 0.000 %



16

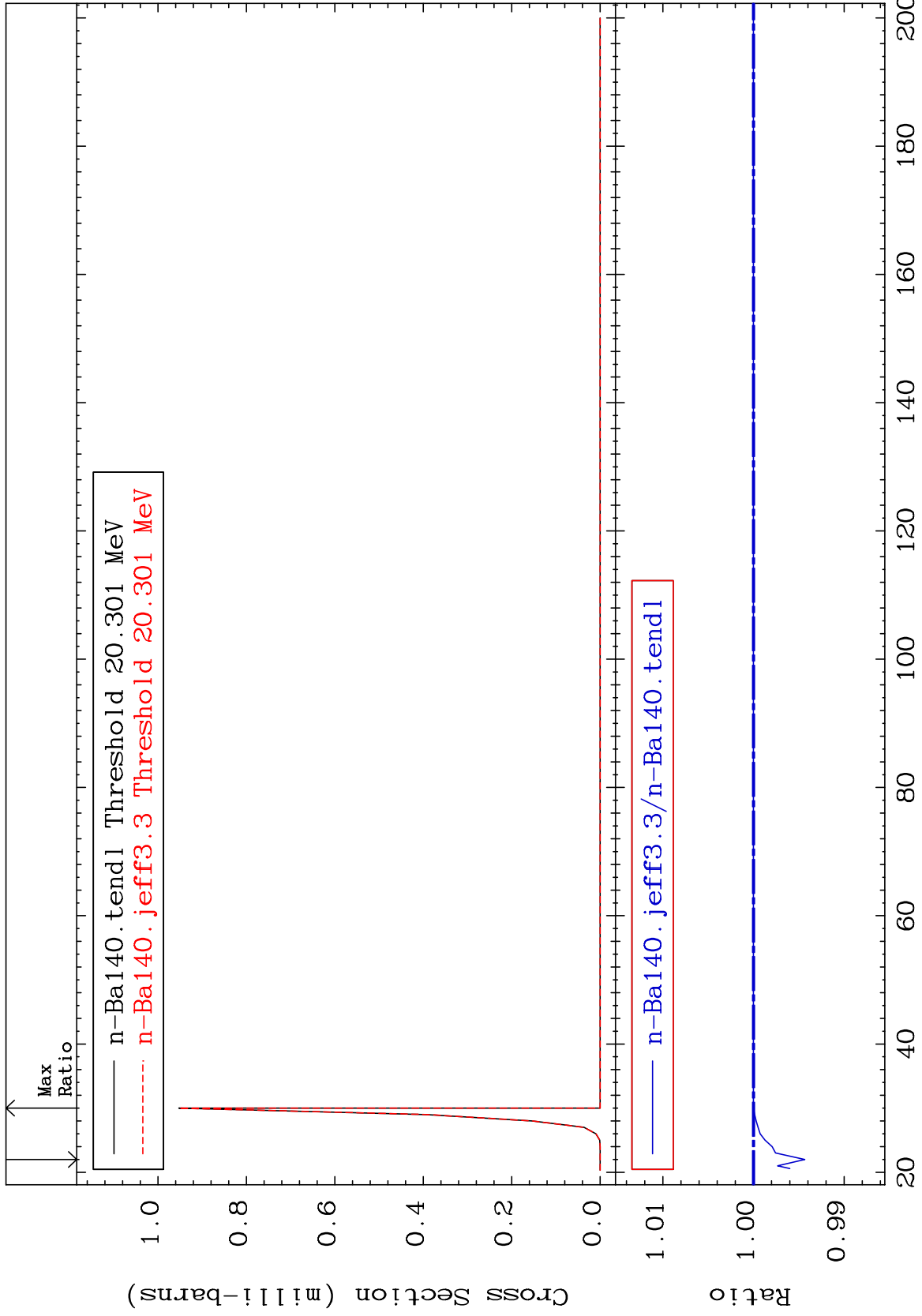
Incident Energy (eV)

56-Ba-140

MAT 5655

(n,3n) p
Cross Section

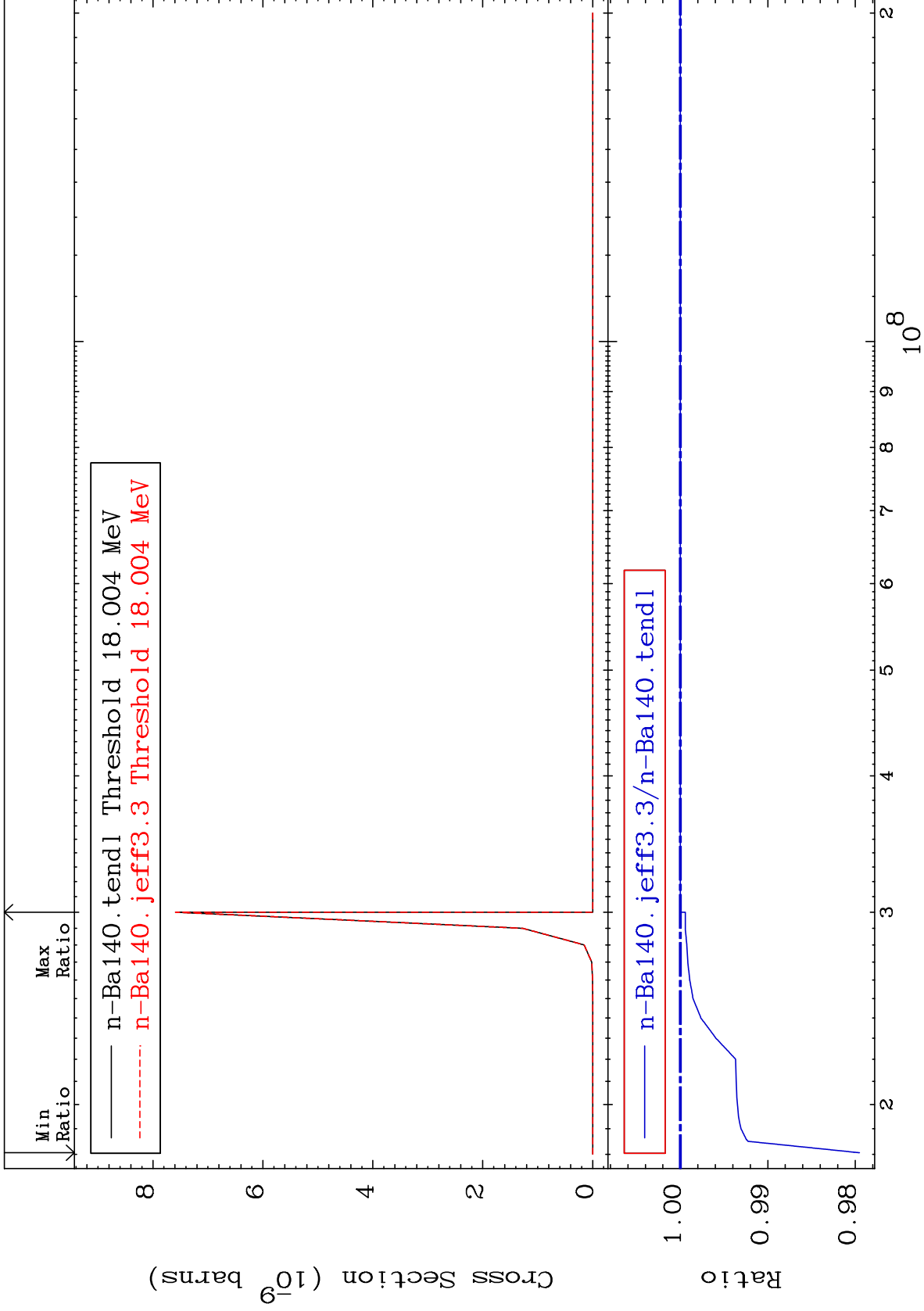
56-Ba-140
-0.565 To 0.002 %



MAT 5655

(n,2n) p
Cross Section

56-Ba-140
-2.048 To 0.000 %



18

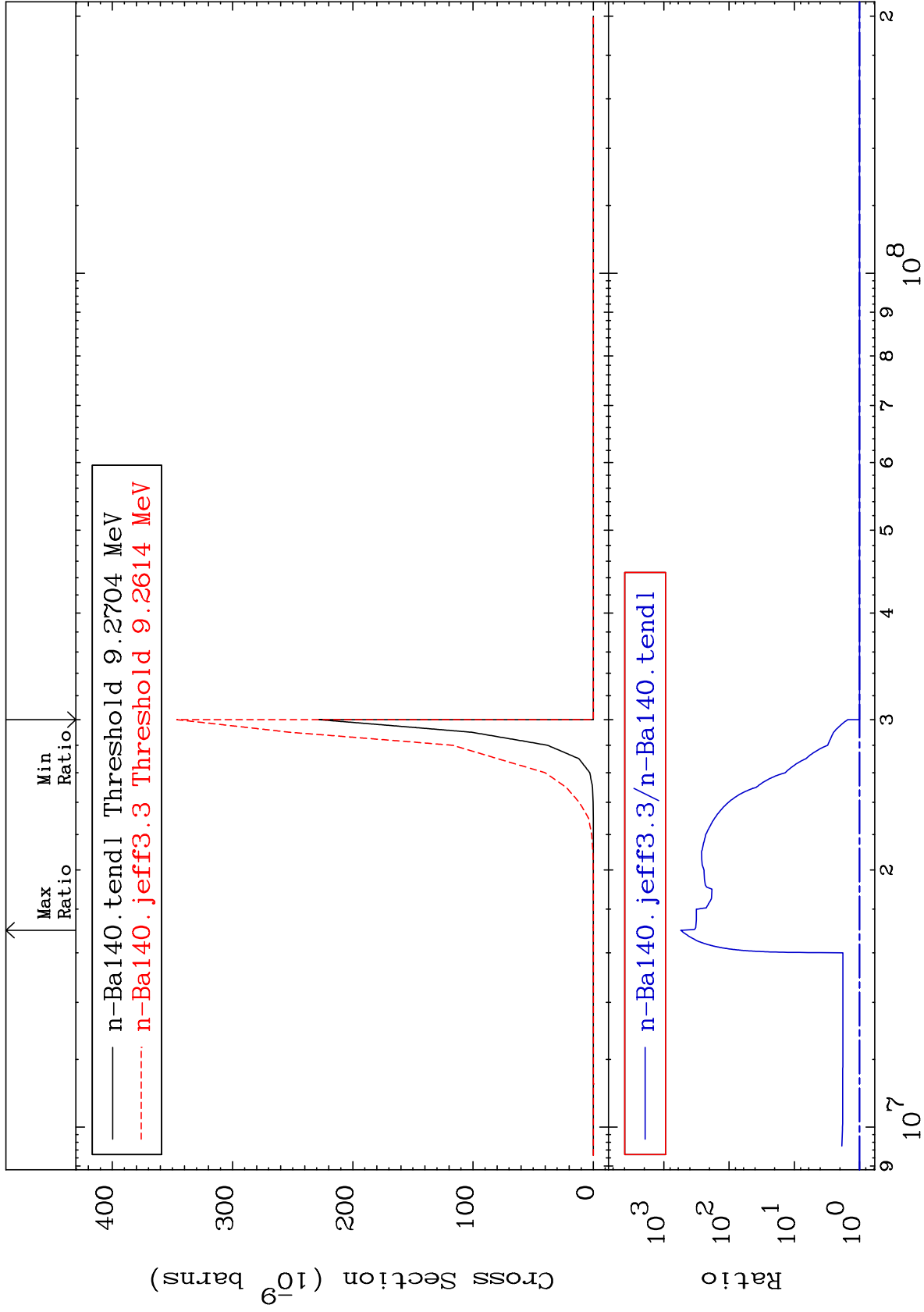
Incident Energy (eV)

56-Ba-140

MAT 5655

(n,n') p α
Cross Section

56-Ba-140
To 9999. %



56-Ba-140

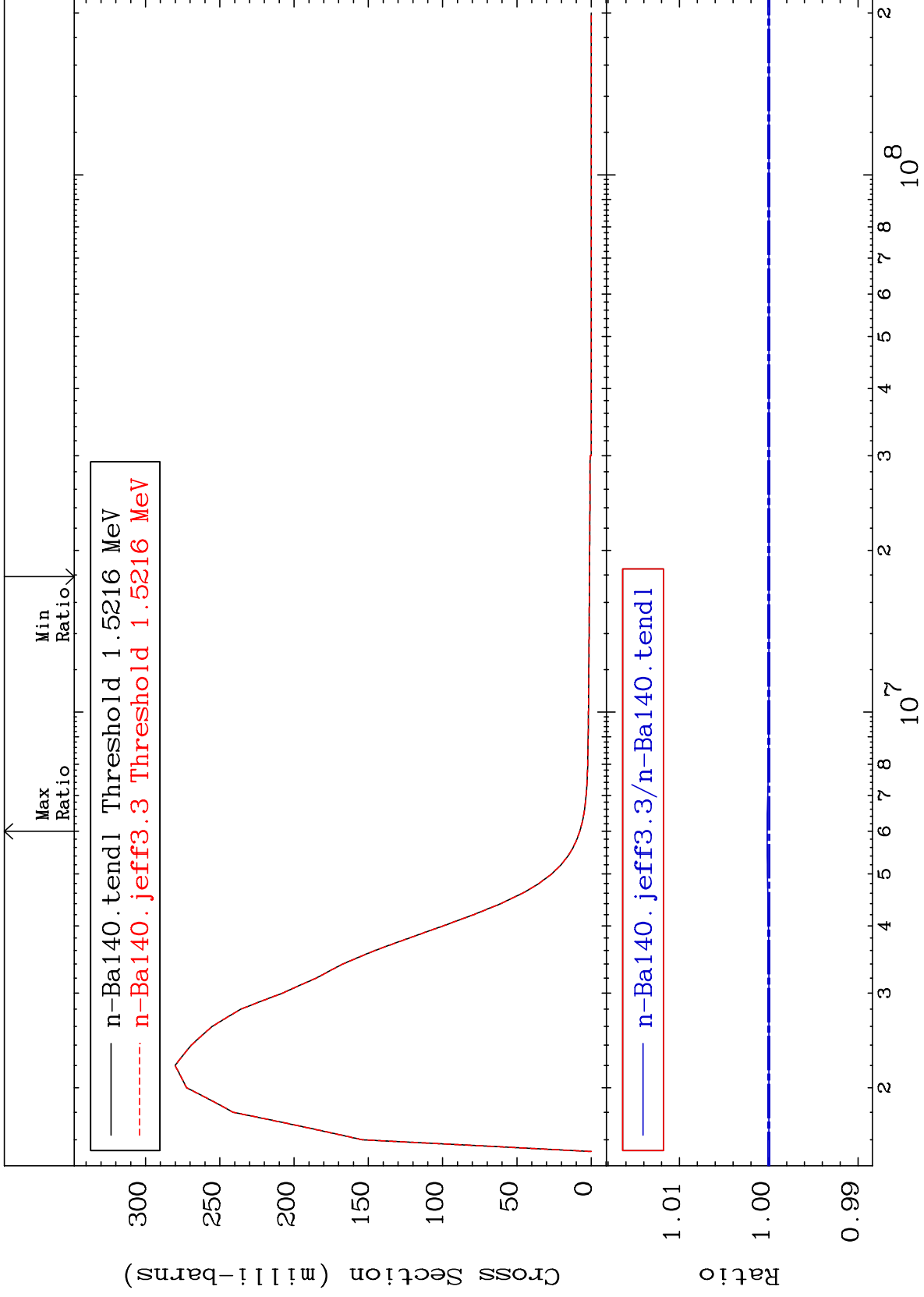
Incident Energy (eV)

19

MAT 5655

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

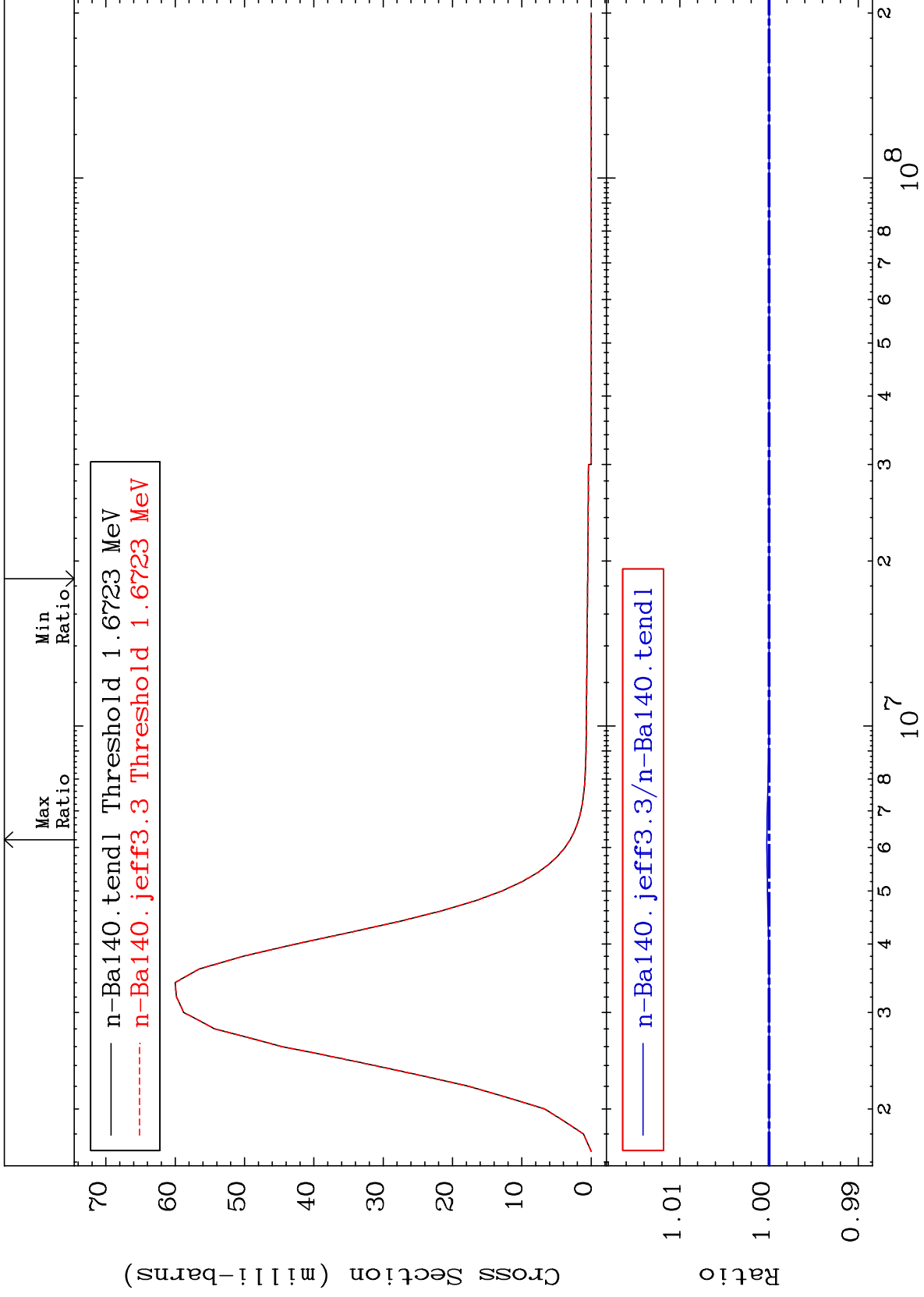
56-Ba-140
To 0.019 %



MAT 5655

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

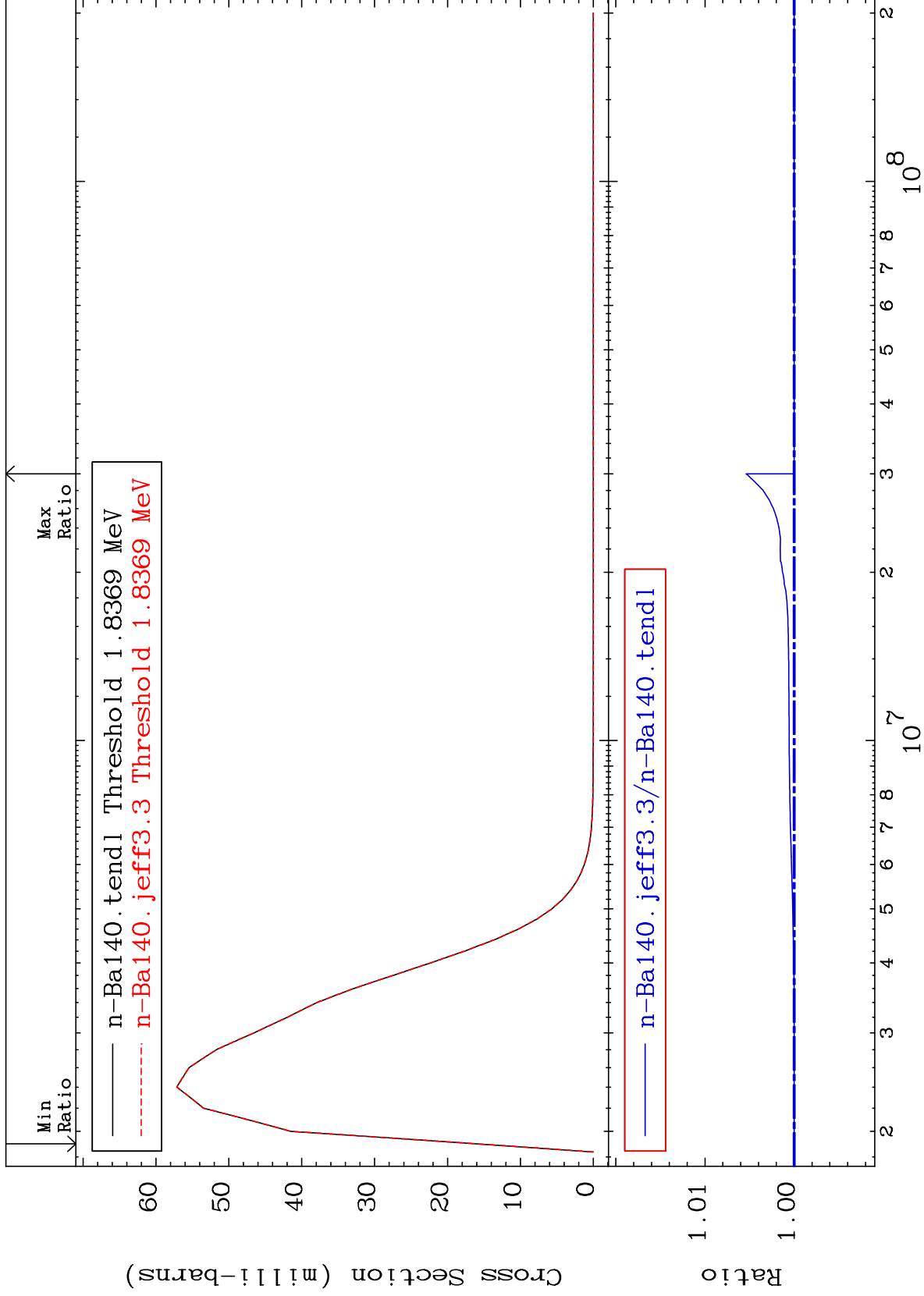
56-Ba-140
0.000 To 0.024 %



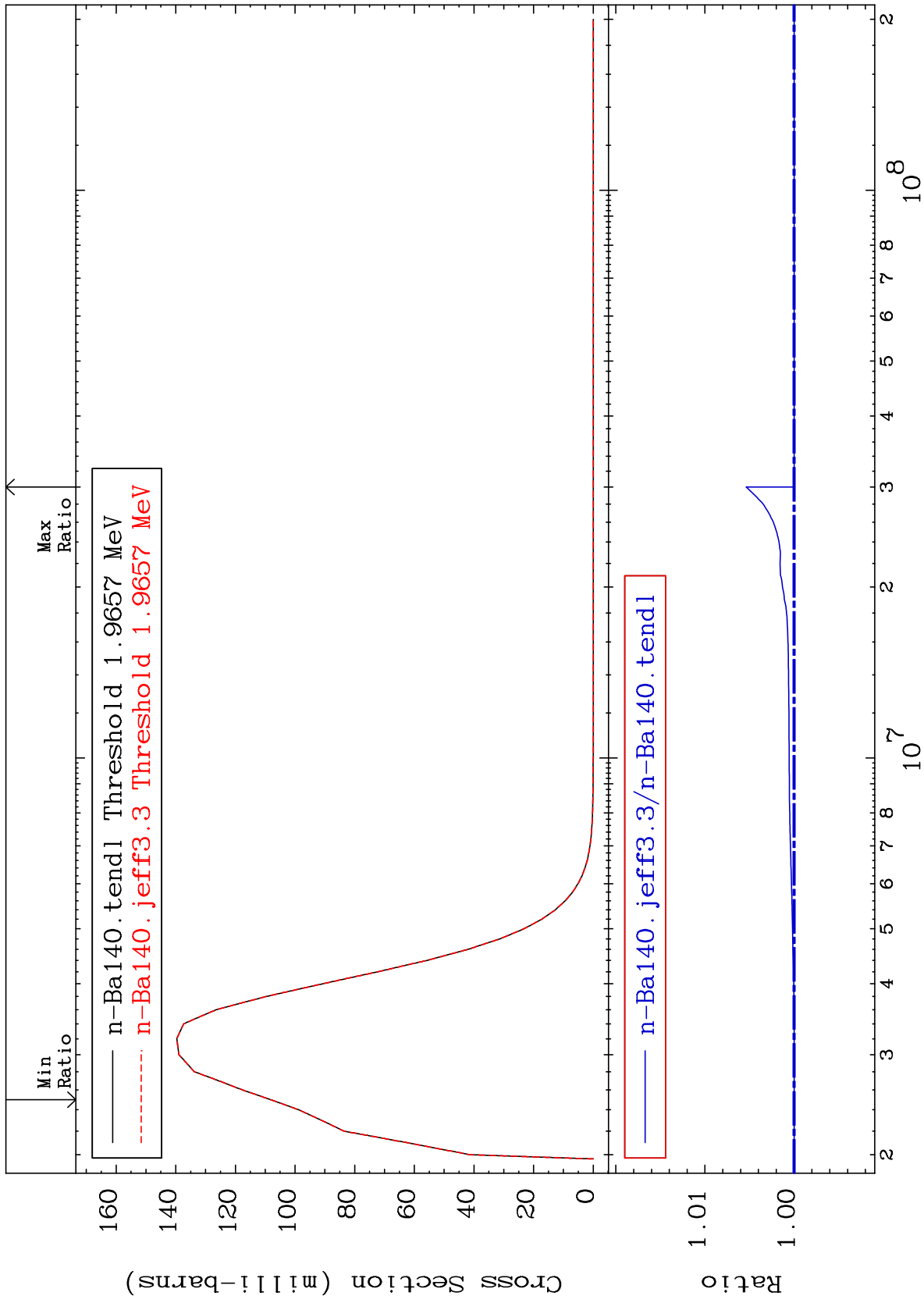
MAT 5655

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

56-Ba-140
To 0.538 %



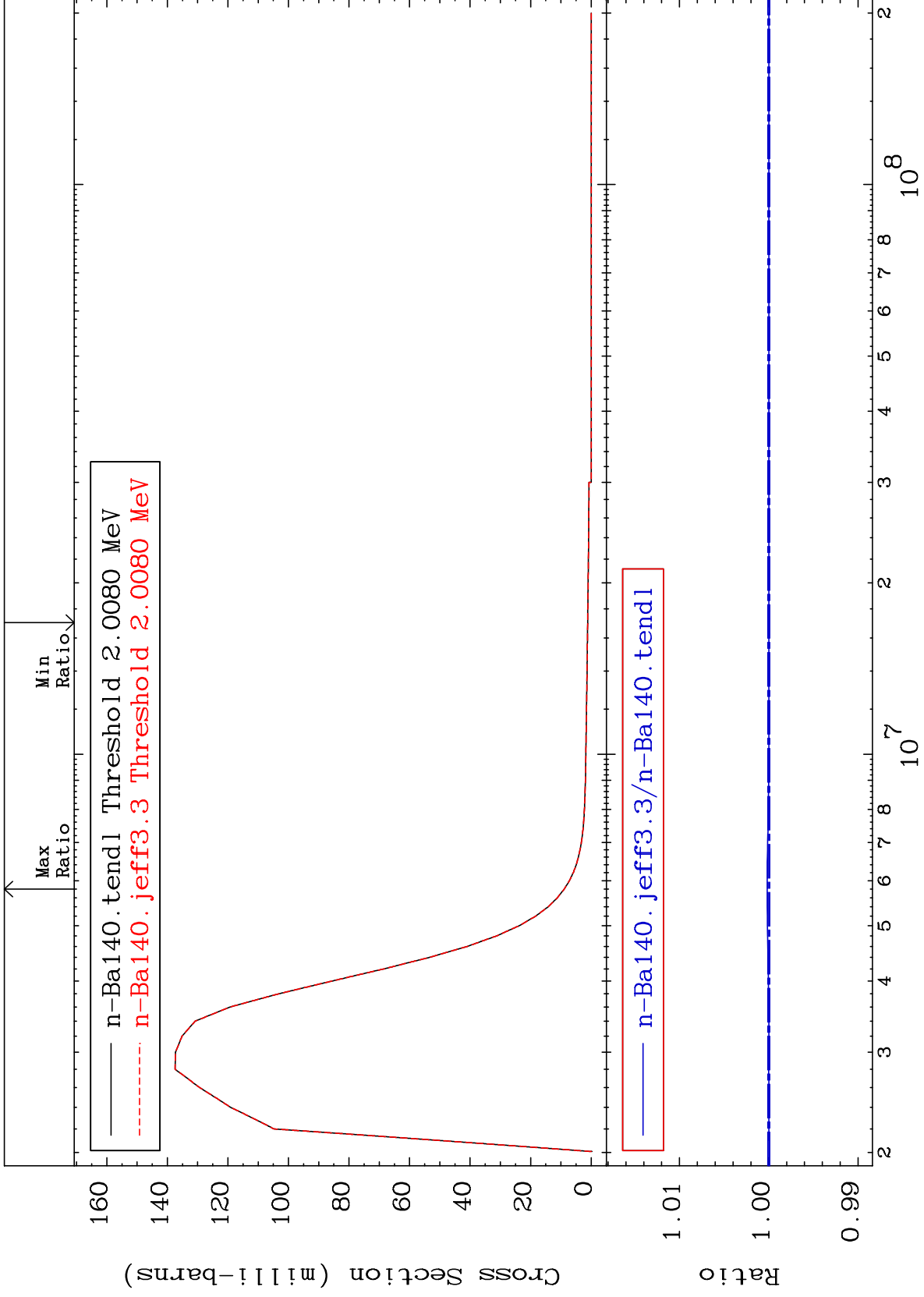
MAT 5655 MT= 57 (n,n') Level Cross Section 56-Ba-140 To 0.538 %



MAT 5655

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

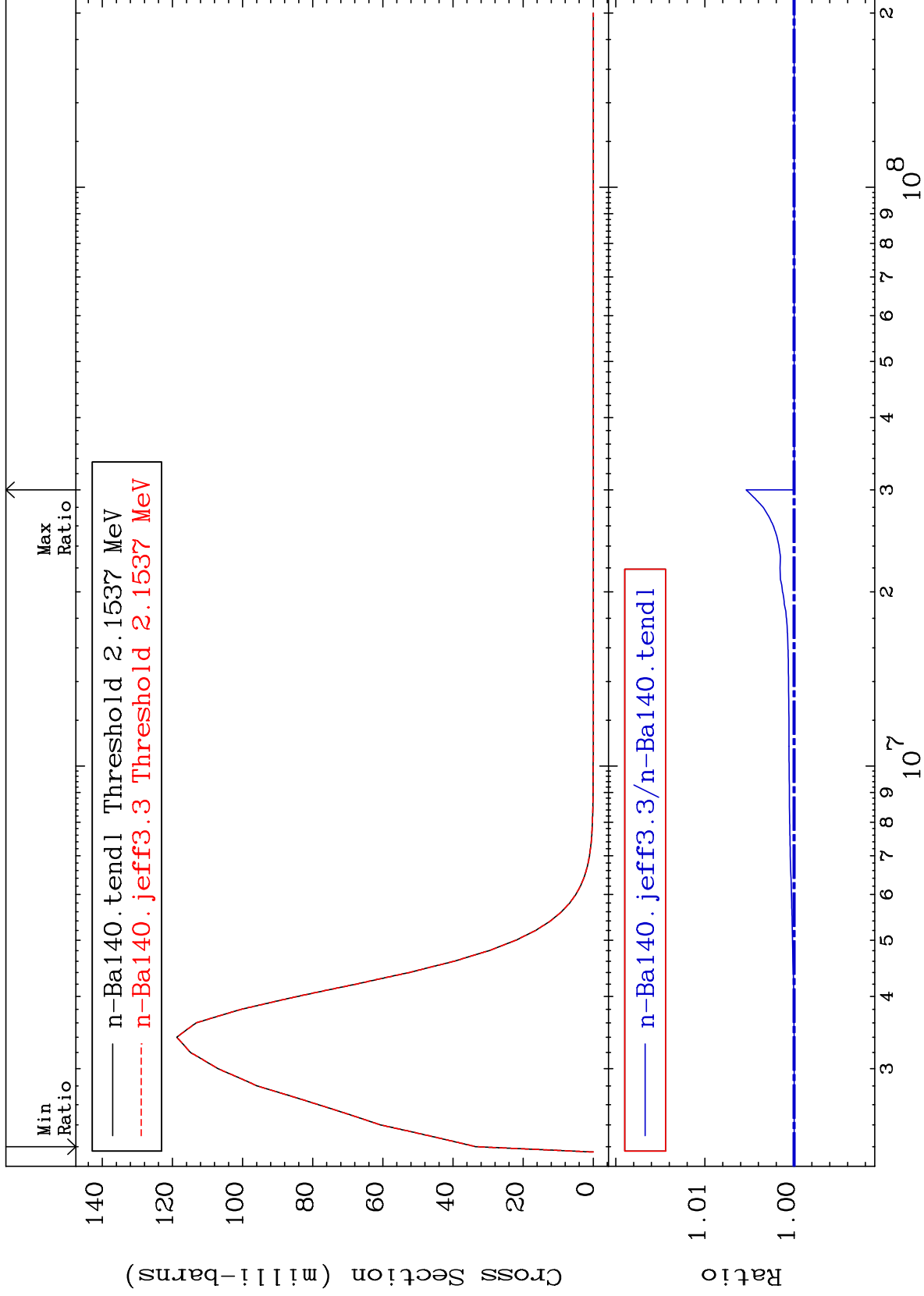
56-Ba-140
To 0.019 %



MAT 5655

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

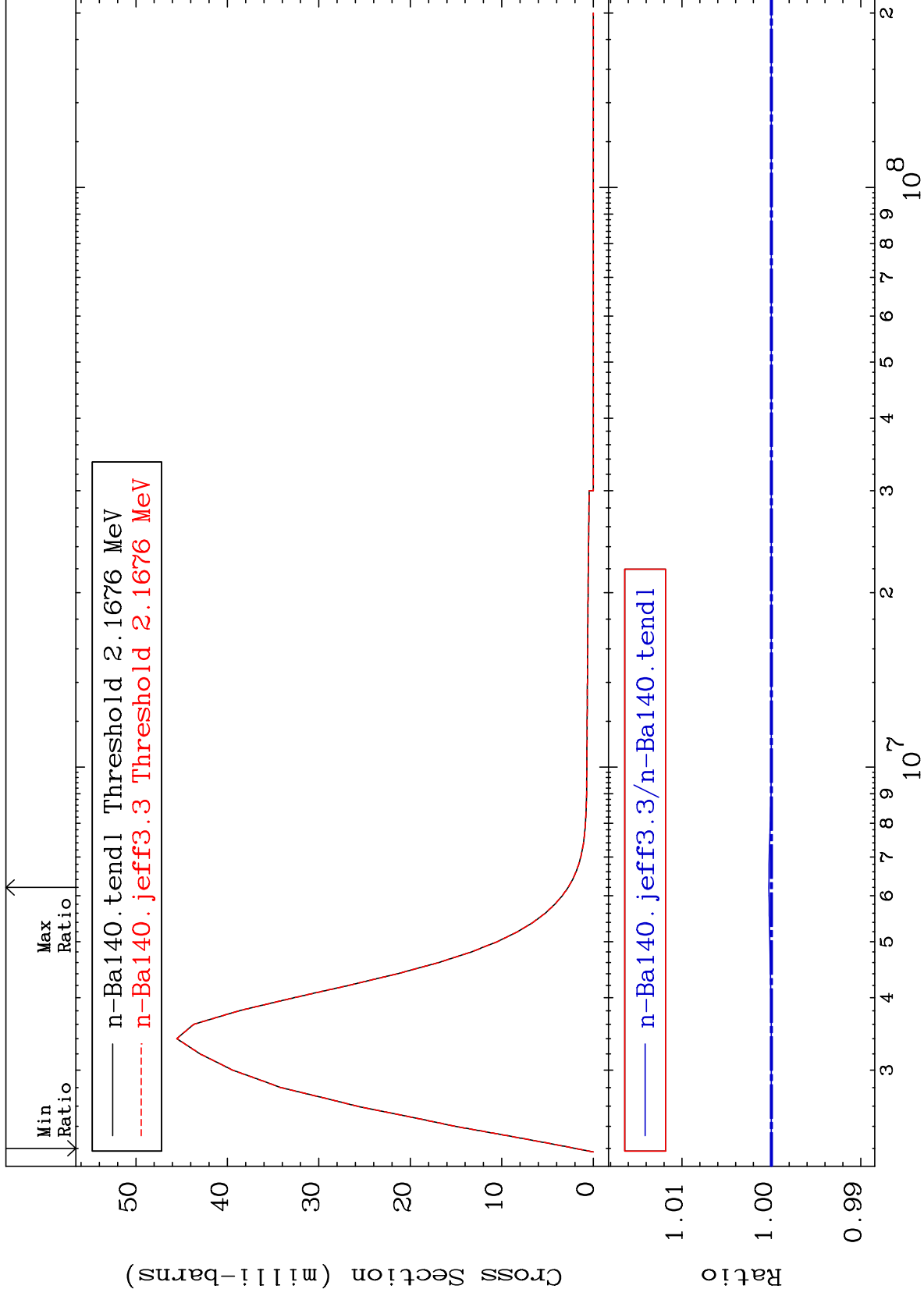
56-Ba-140
To 0.538 %



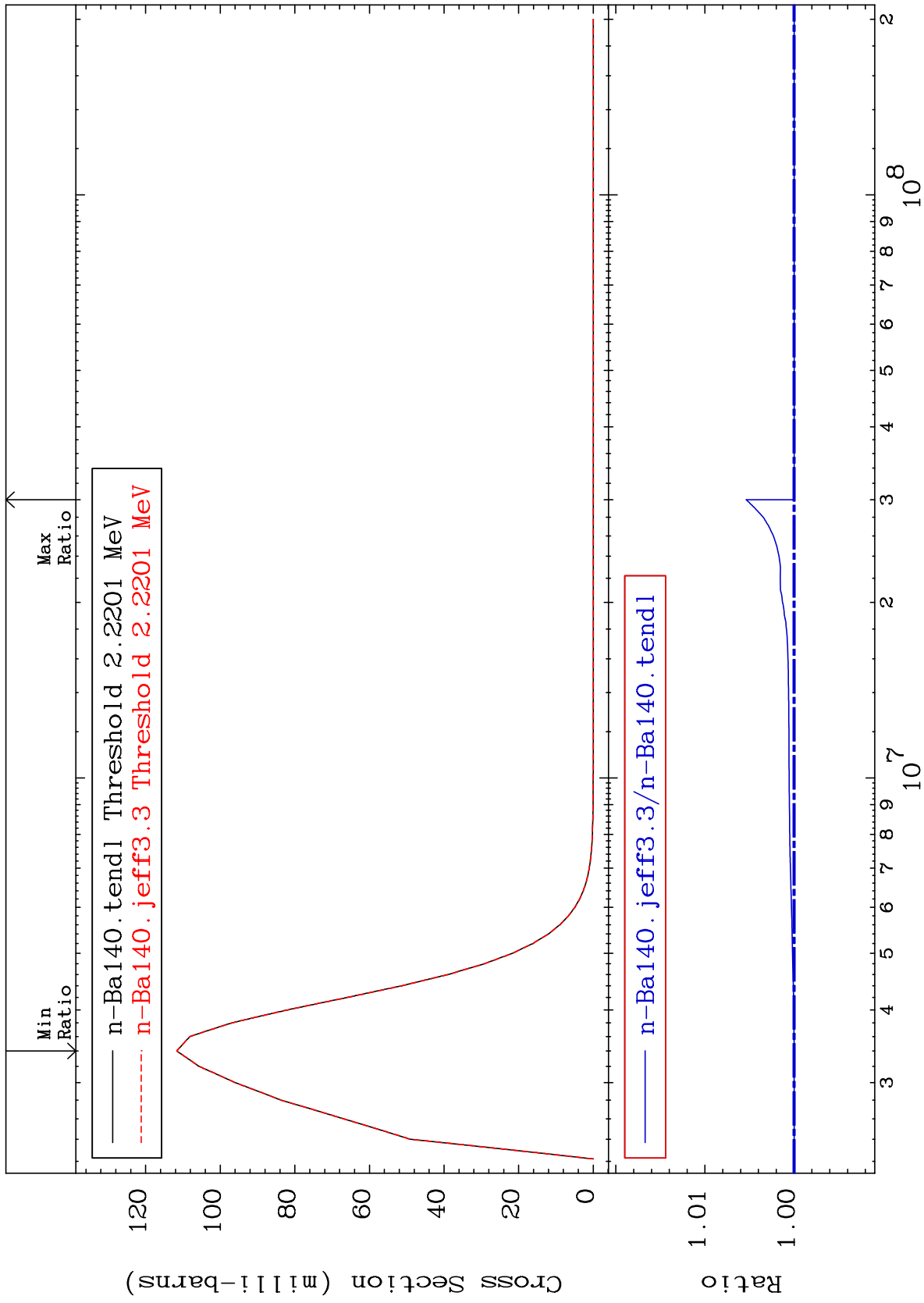
MAT 5655

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

56-Ba-140
To 0.028 %



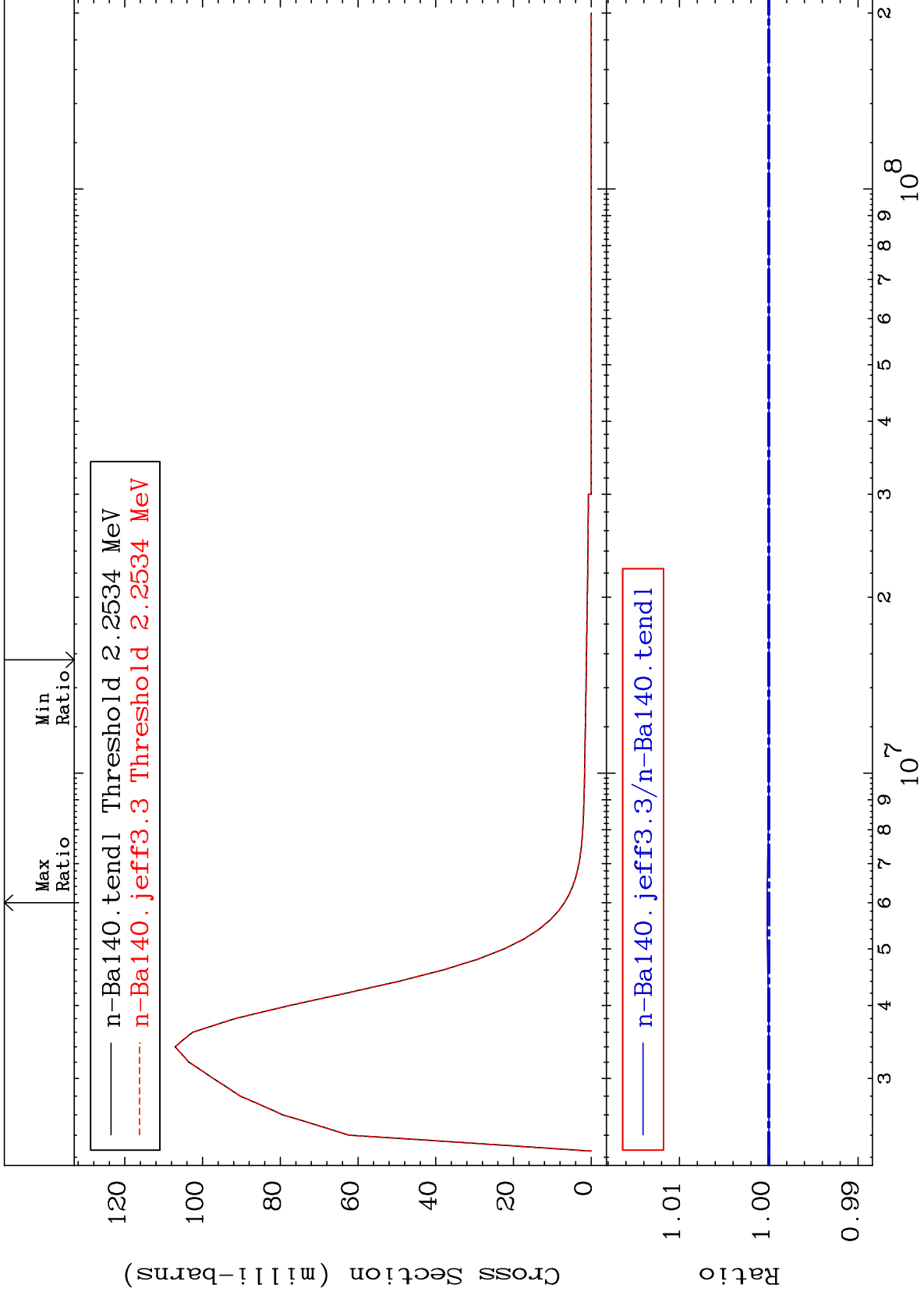
MAT 5655 MT= 61 (n,n') Level Cross Section 56-Ba-140 To 0.538 %



MAT 5655

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

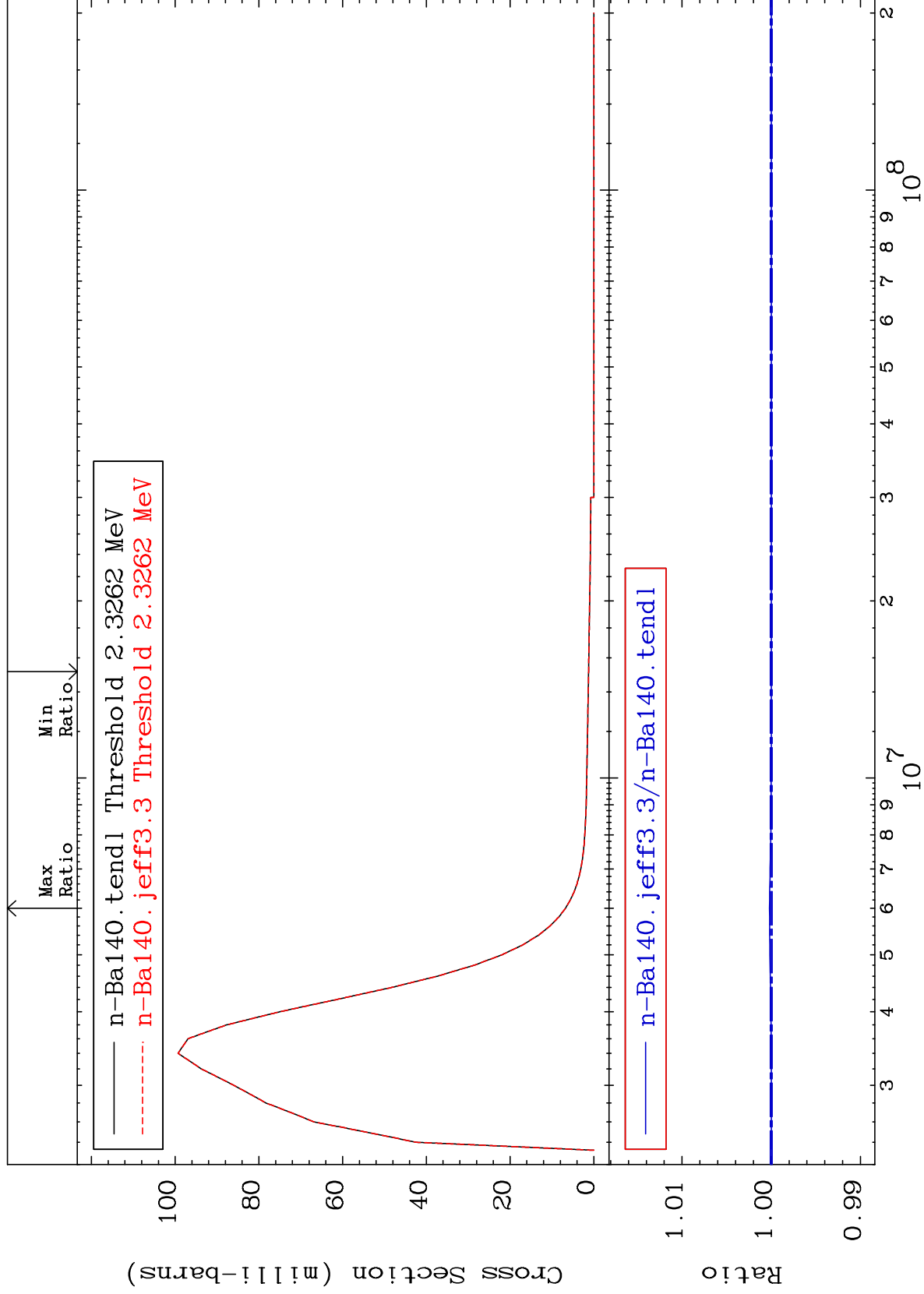
56-Ba-140
To 0.019 %



MAT 5655

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

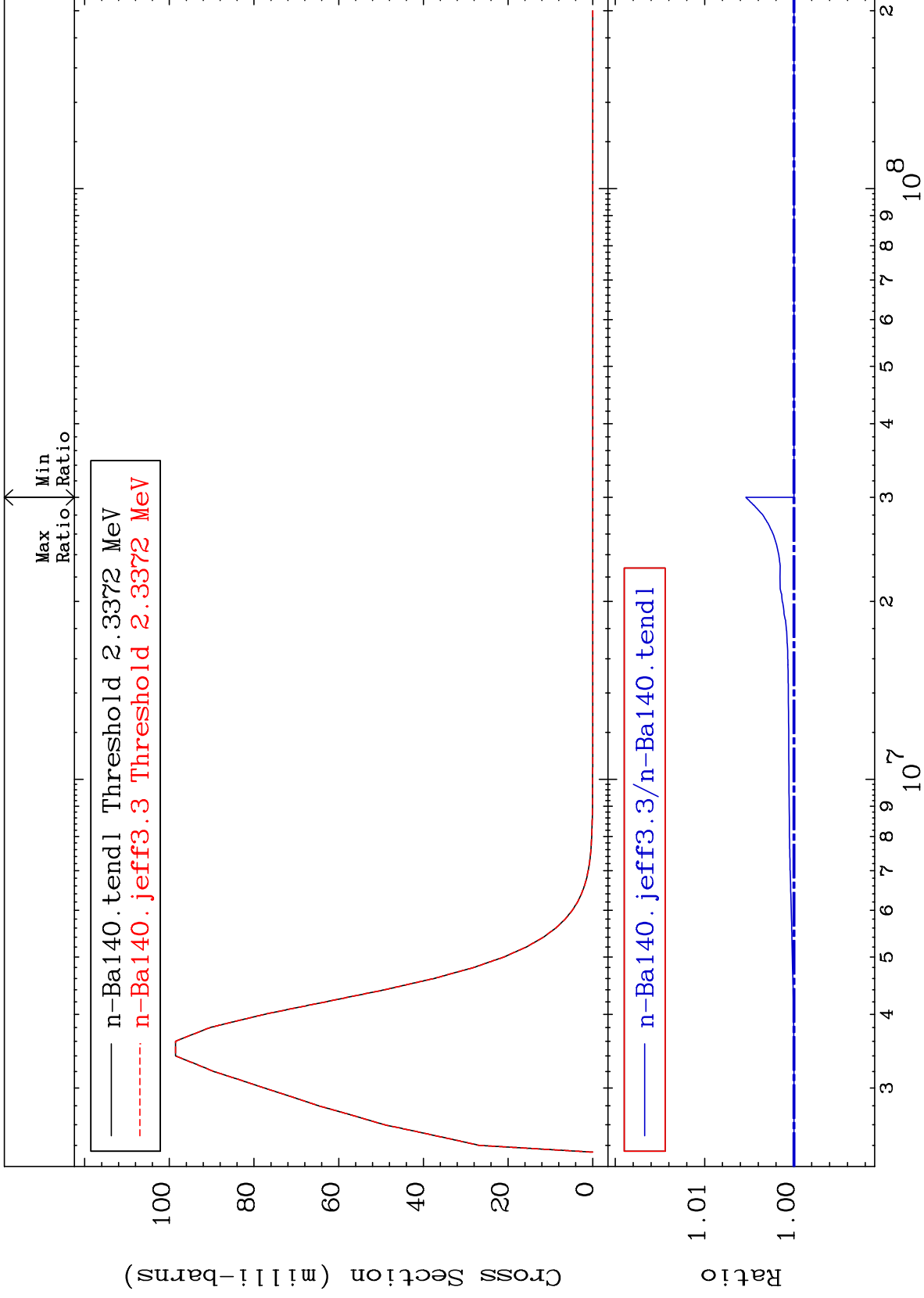
56-Ba-140
To 0.019 %



MAT 5655

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

56-Ba-140
To 0.538 %



30

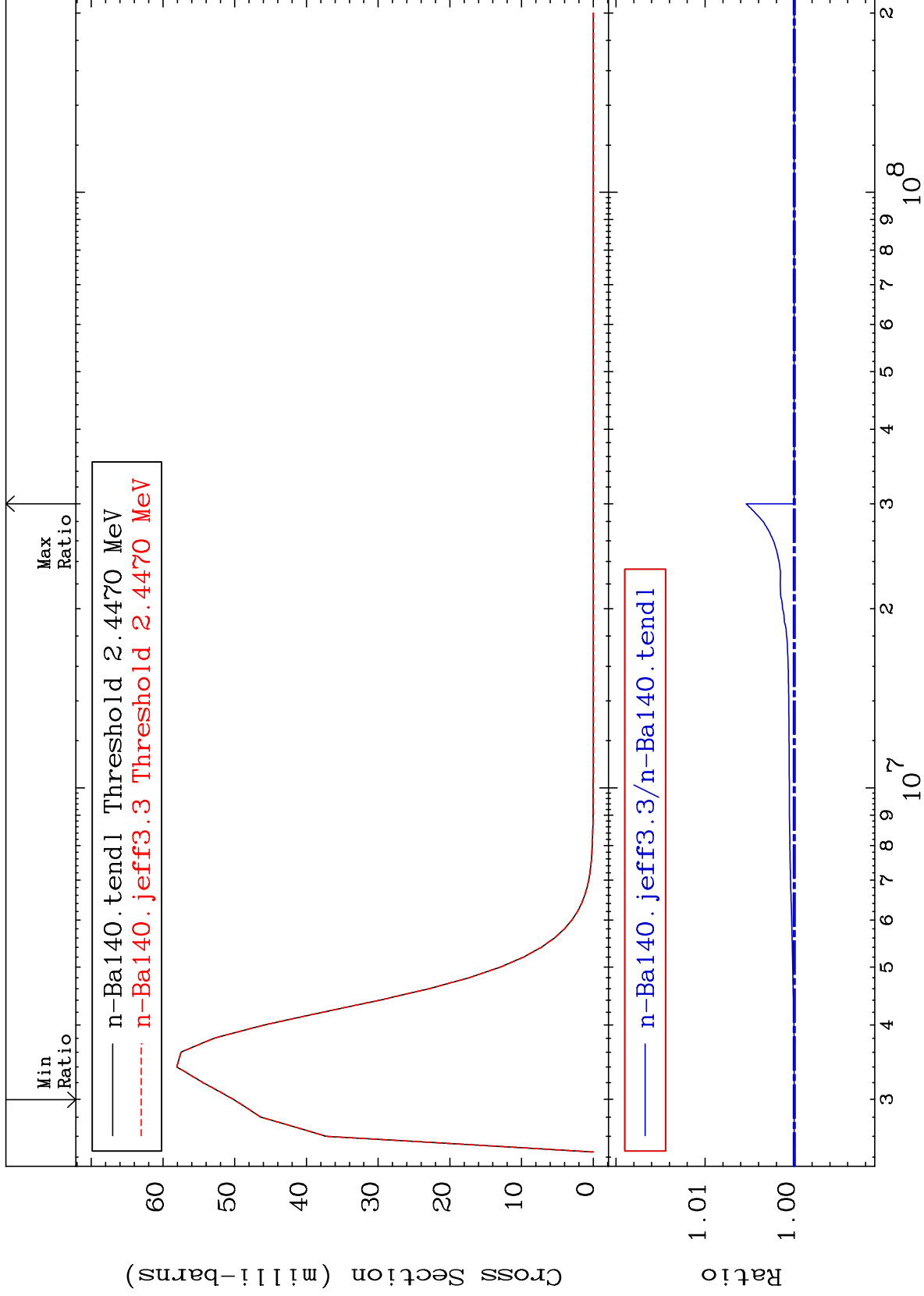
Incident Energy (eV)

56-Ba-140

MAT 5655

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

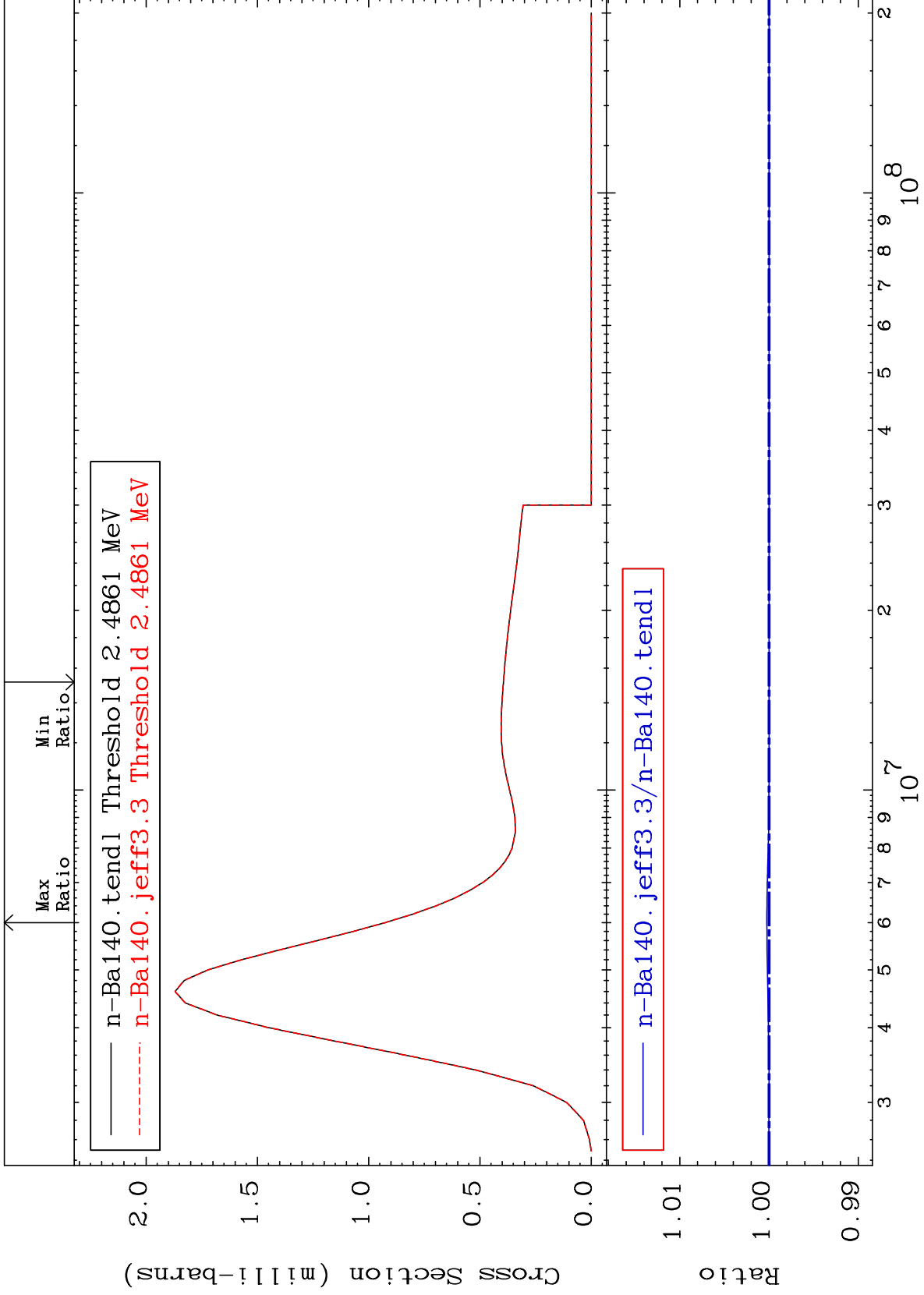
56-Ba-140
To 0.541 %



MAT 5655

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

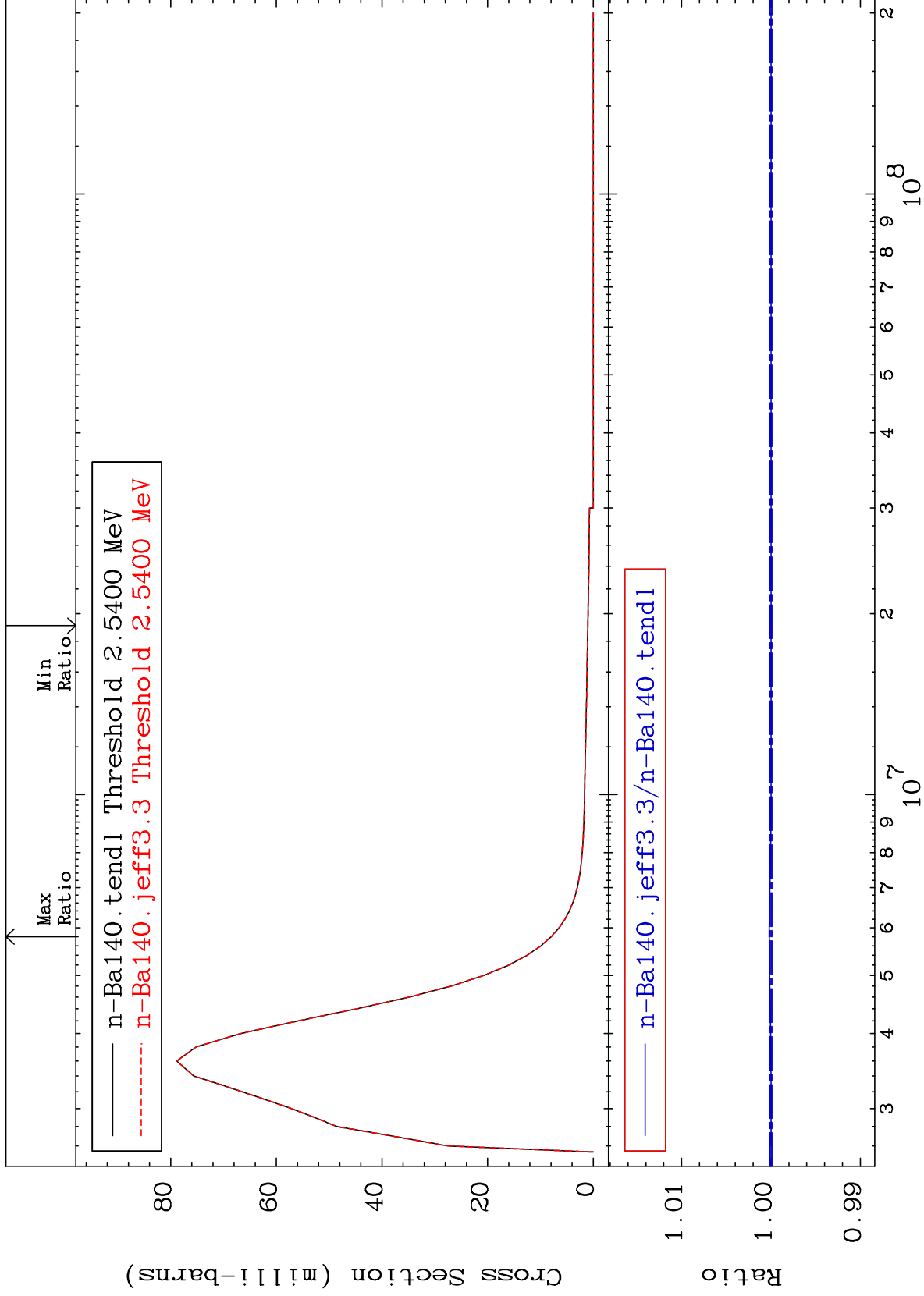
56-Ba-140
0.000 To 0.024 %



MAT 5655

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

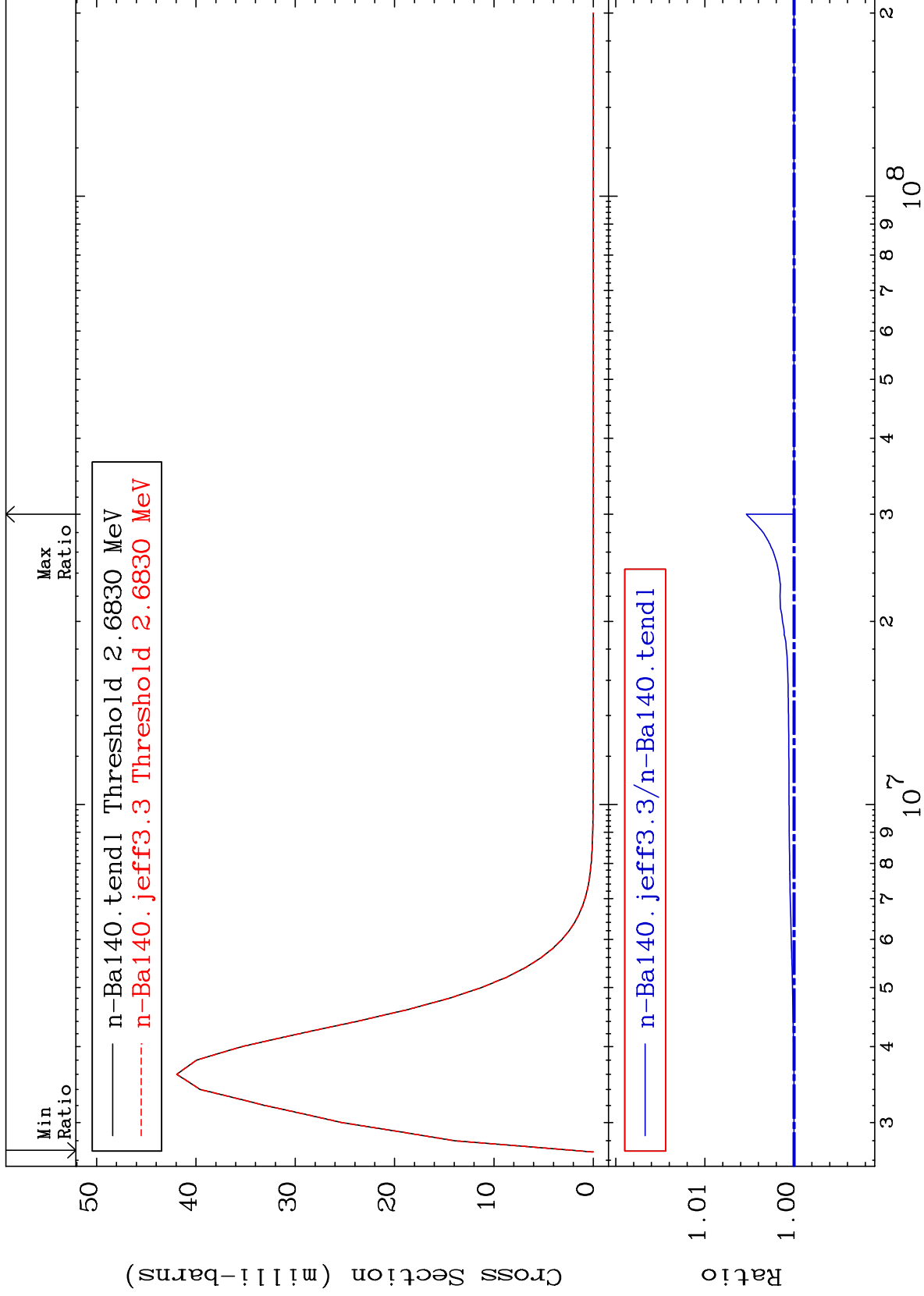
56-Ba-140
To 0.019 %



MAT 5655

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

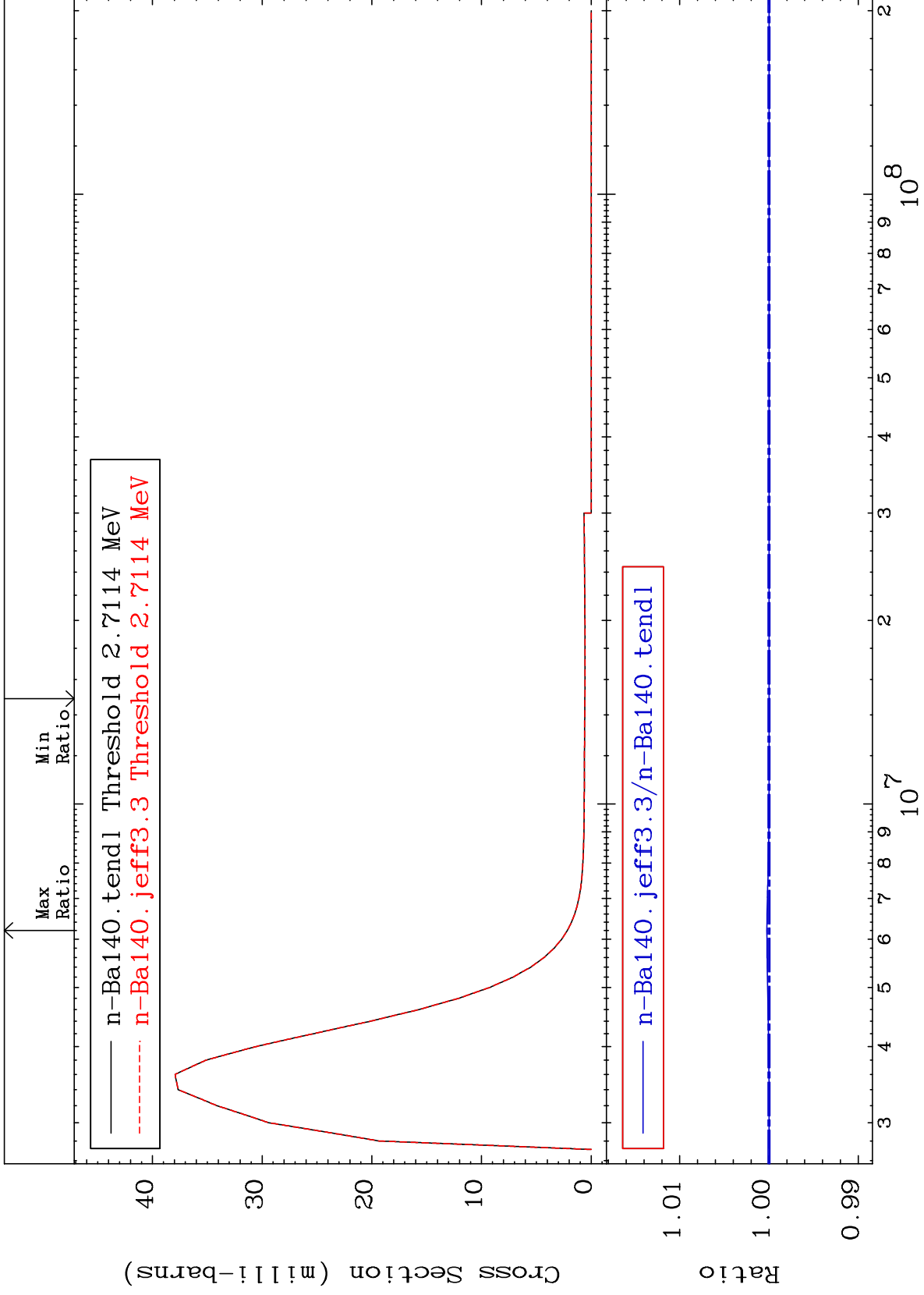
56-Ba-140
To 0.536 %



MAT 5655

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

56-Ba-140
To 0.024 %



35

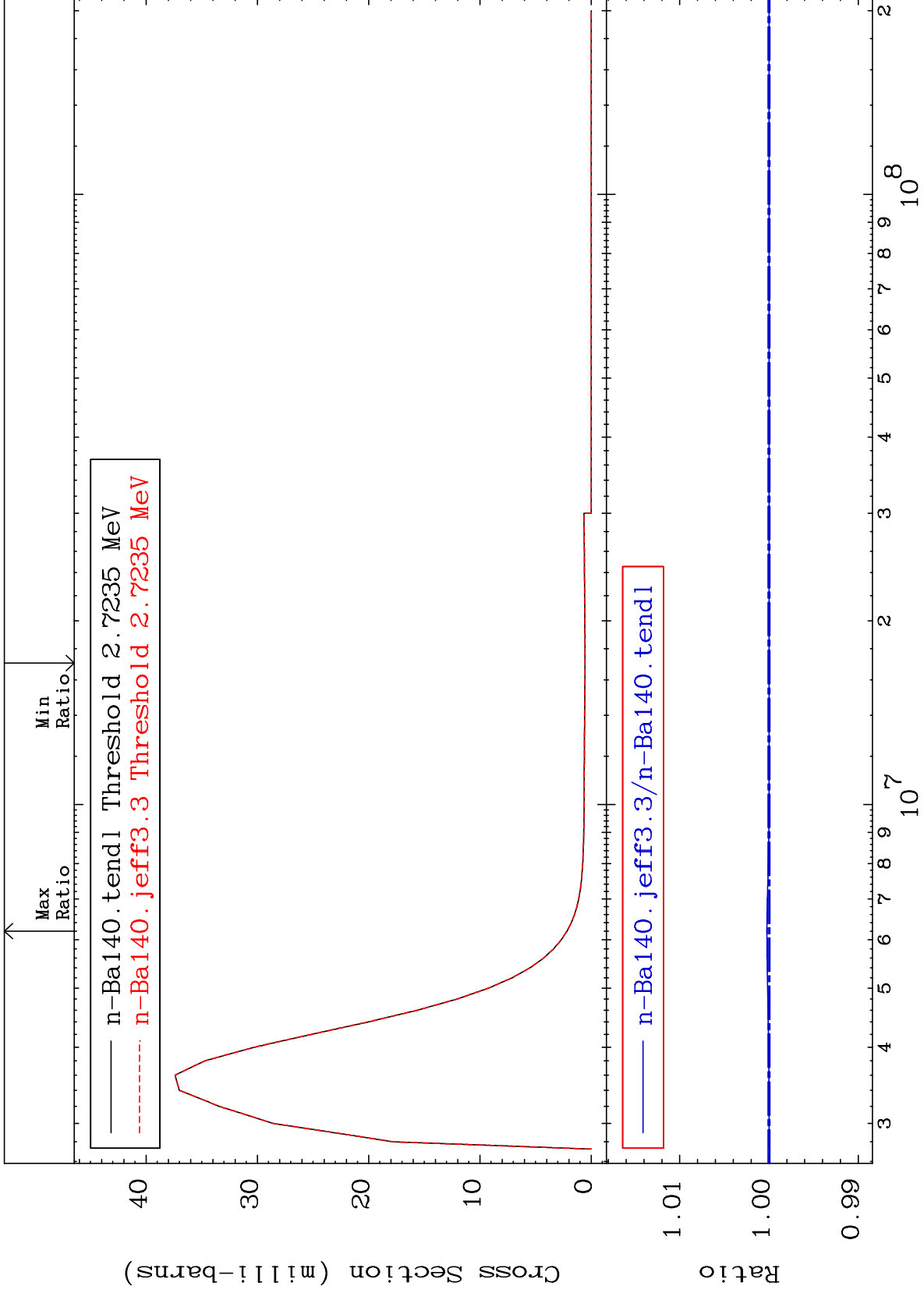
Incident Energy (eV)

56-Ba-140

MAT 5655

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

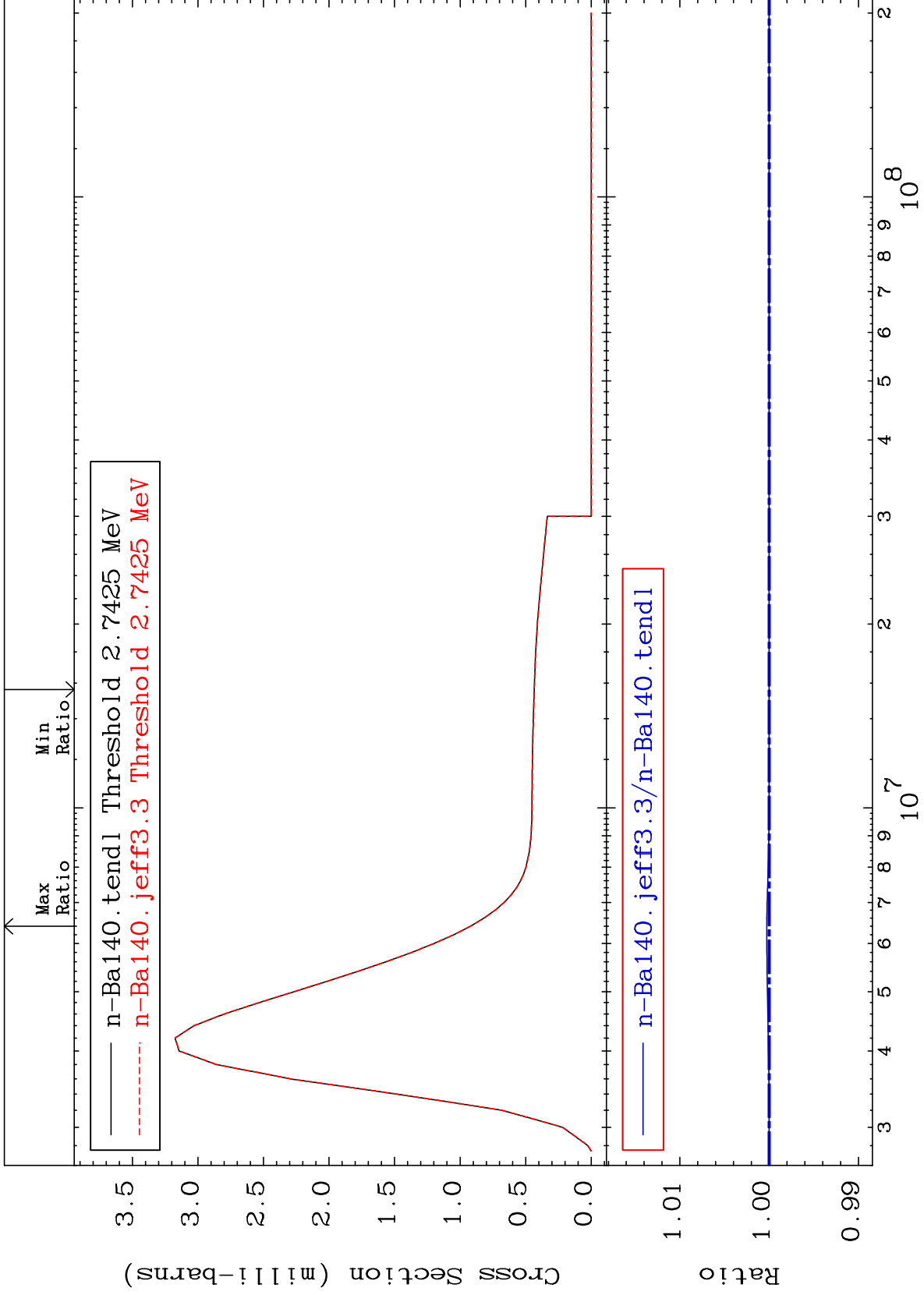
56-Ba-140
0.000 To 0.024 %



MAT 5655

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

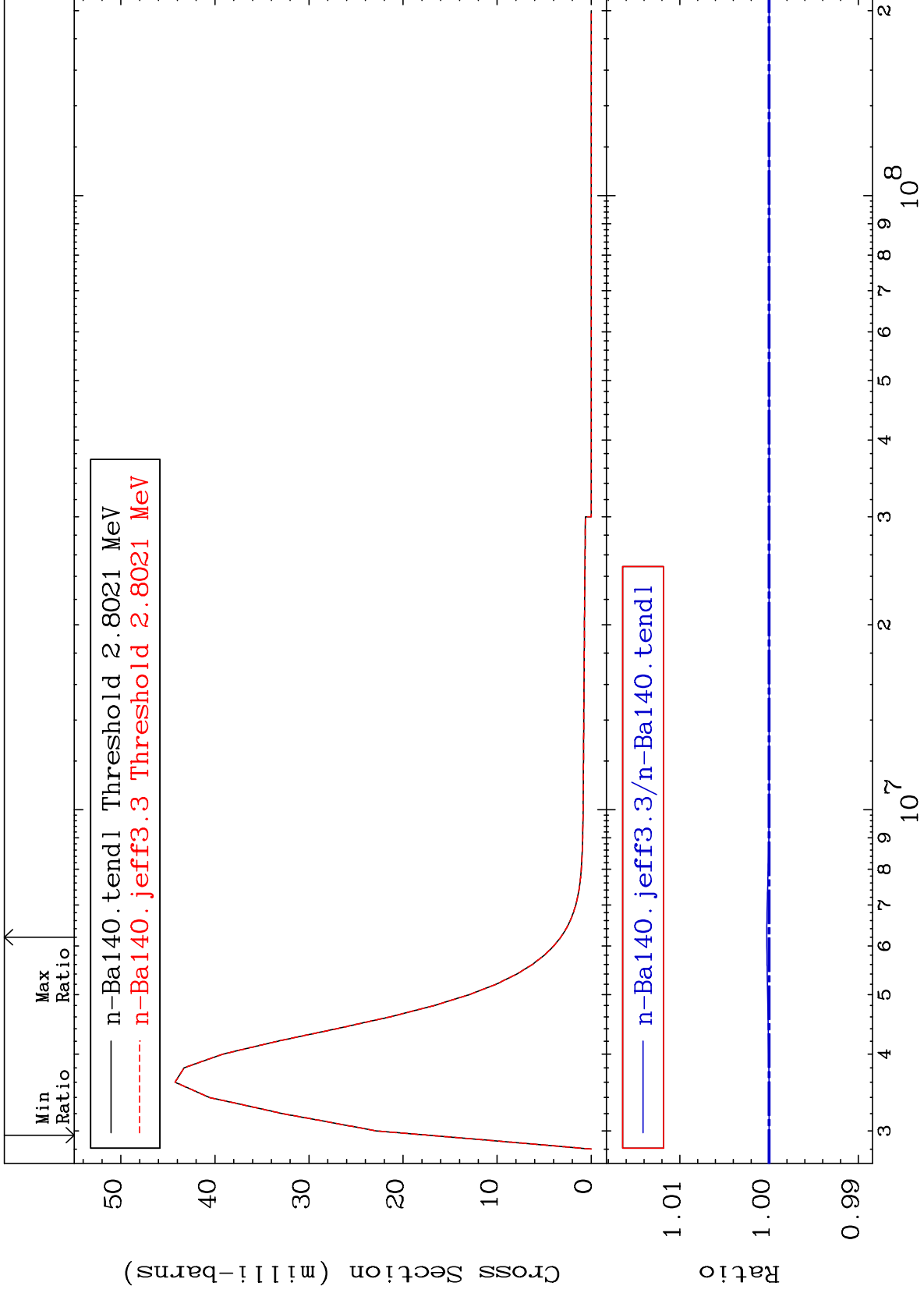
56-Ba-140
0.000 To 0.027 %



MAT 5655

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

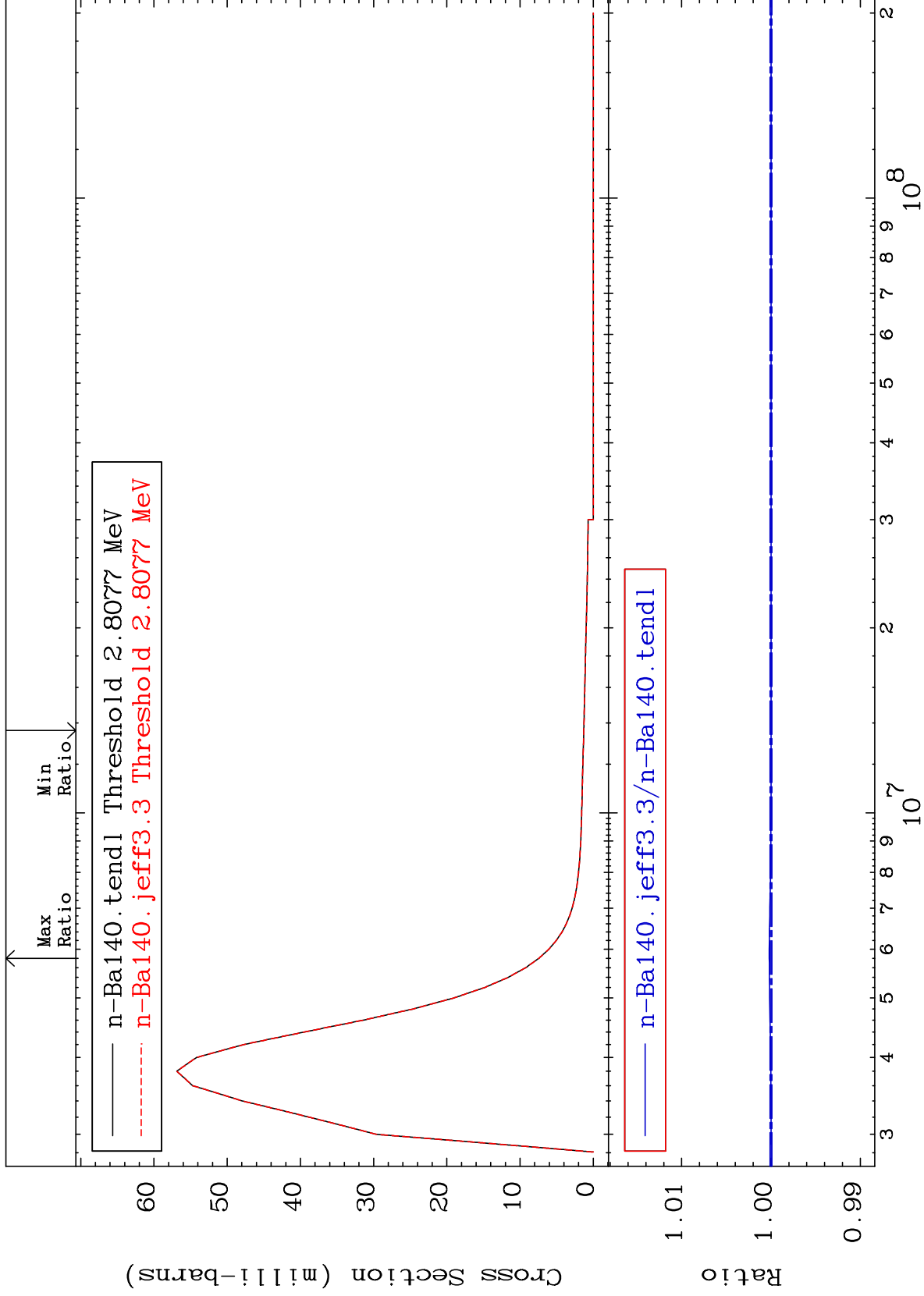
56-Ba-140
0.000 To 0.025 %



MAT 5655

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

56-Ba-140
To 0.019 %



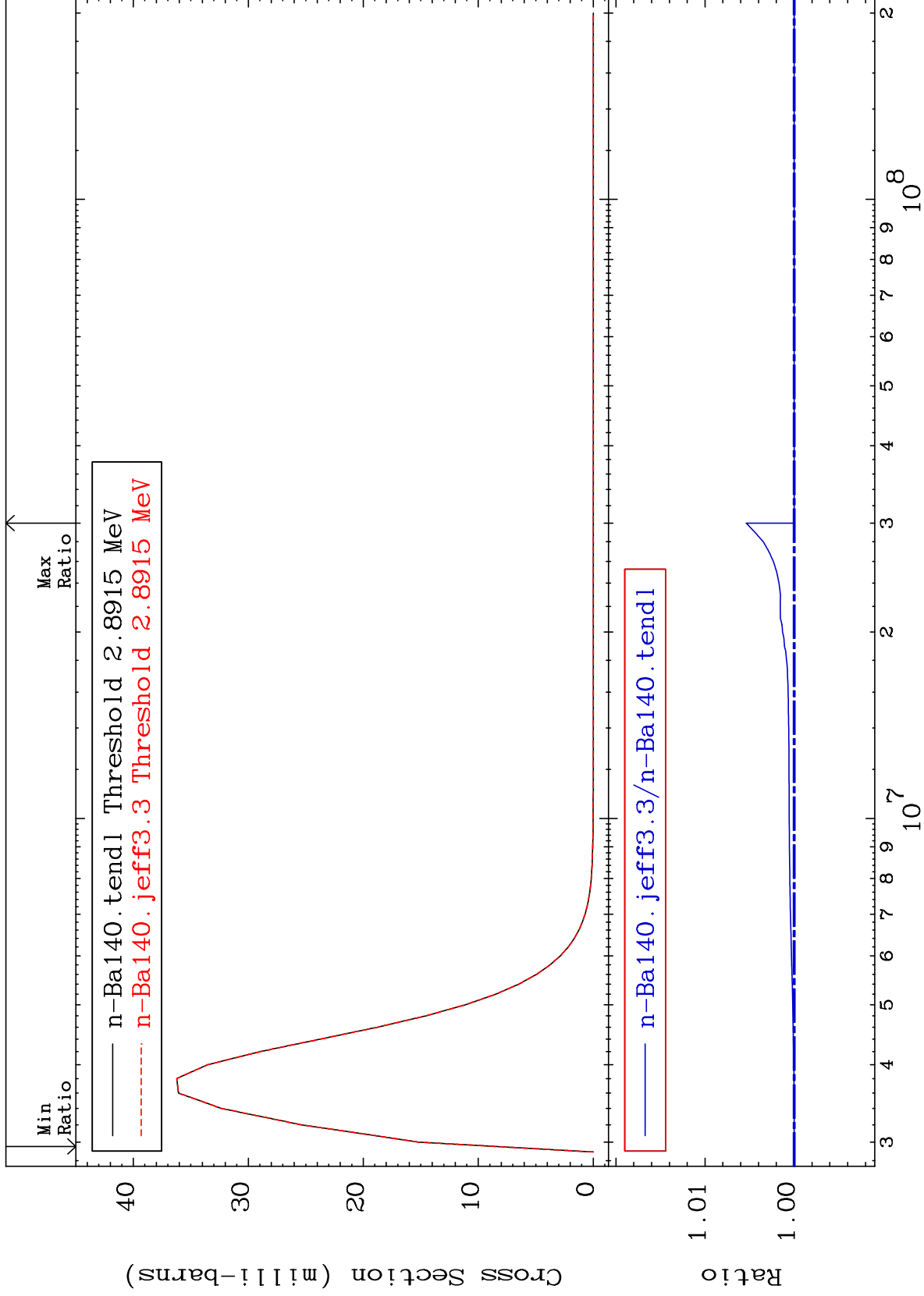
39

56-Ba-140

MAT 5655

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

56-Ba-140
To 0.539 %



40

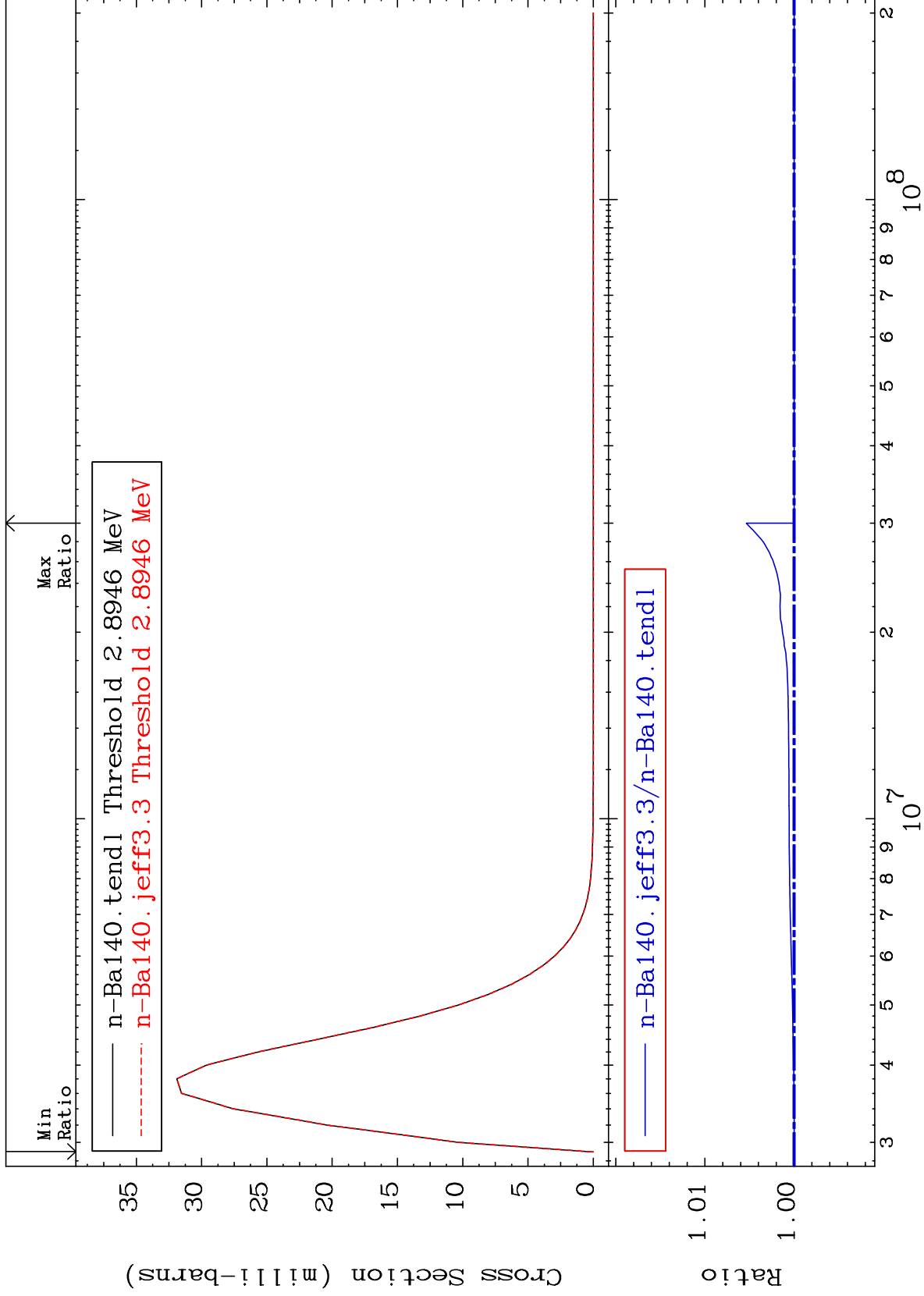
Incident Energy (eV)

56-Ba-140

MAT 5655

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

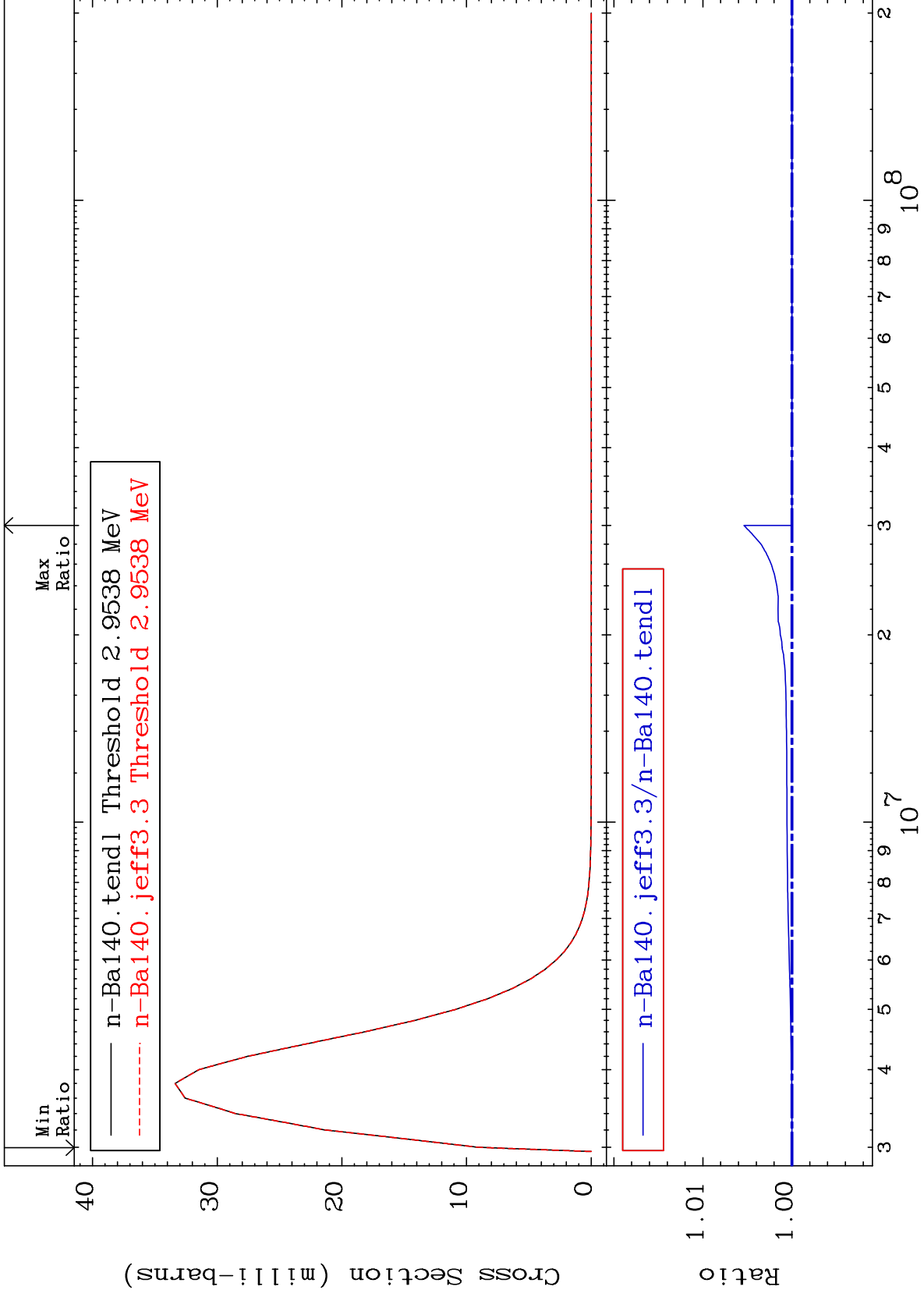
56-Ba-140
To 0.537 %



MAT 5655

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

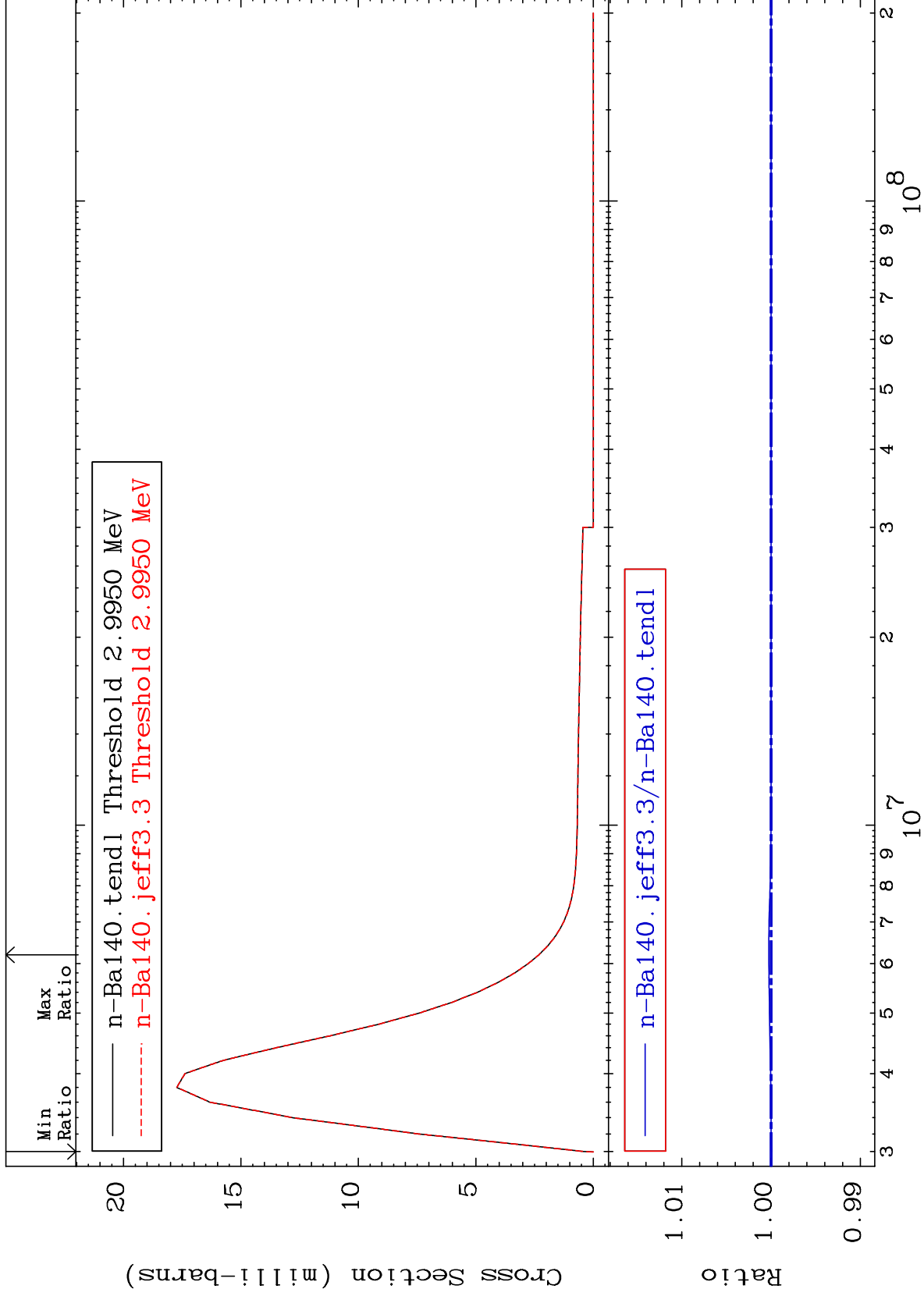
56-Ba-140
To 0.539 %



MAT 5655

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

56-Ba-140
-0.005 To 0.026 %



43

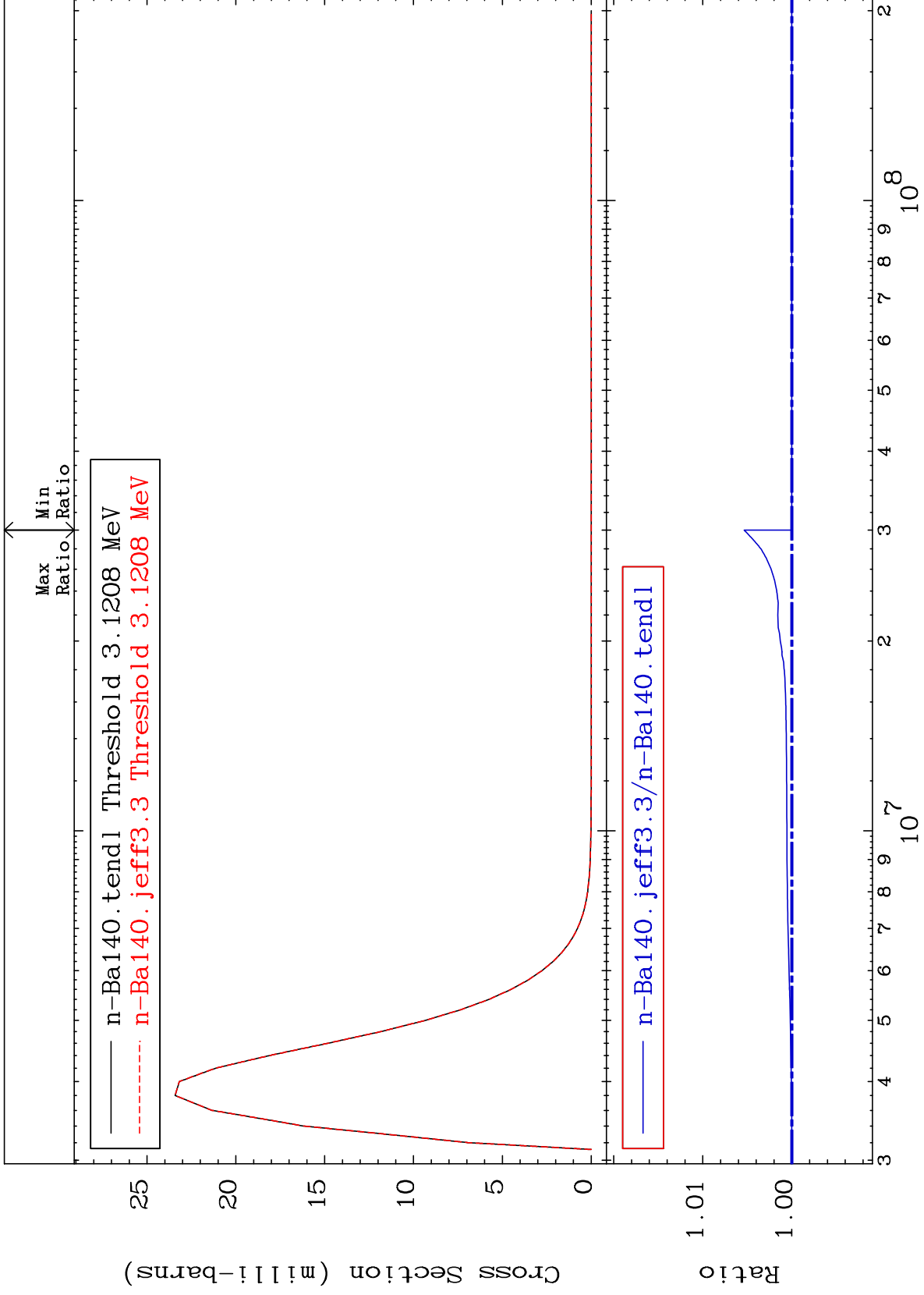
Incident Energy (eV)

56-Ba-140

MAT 5655

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

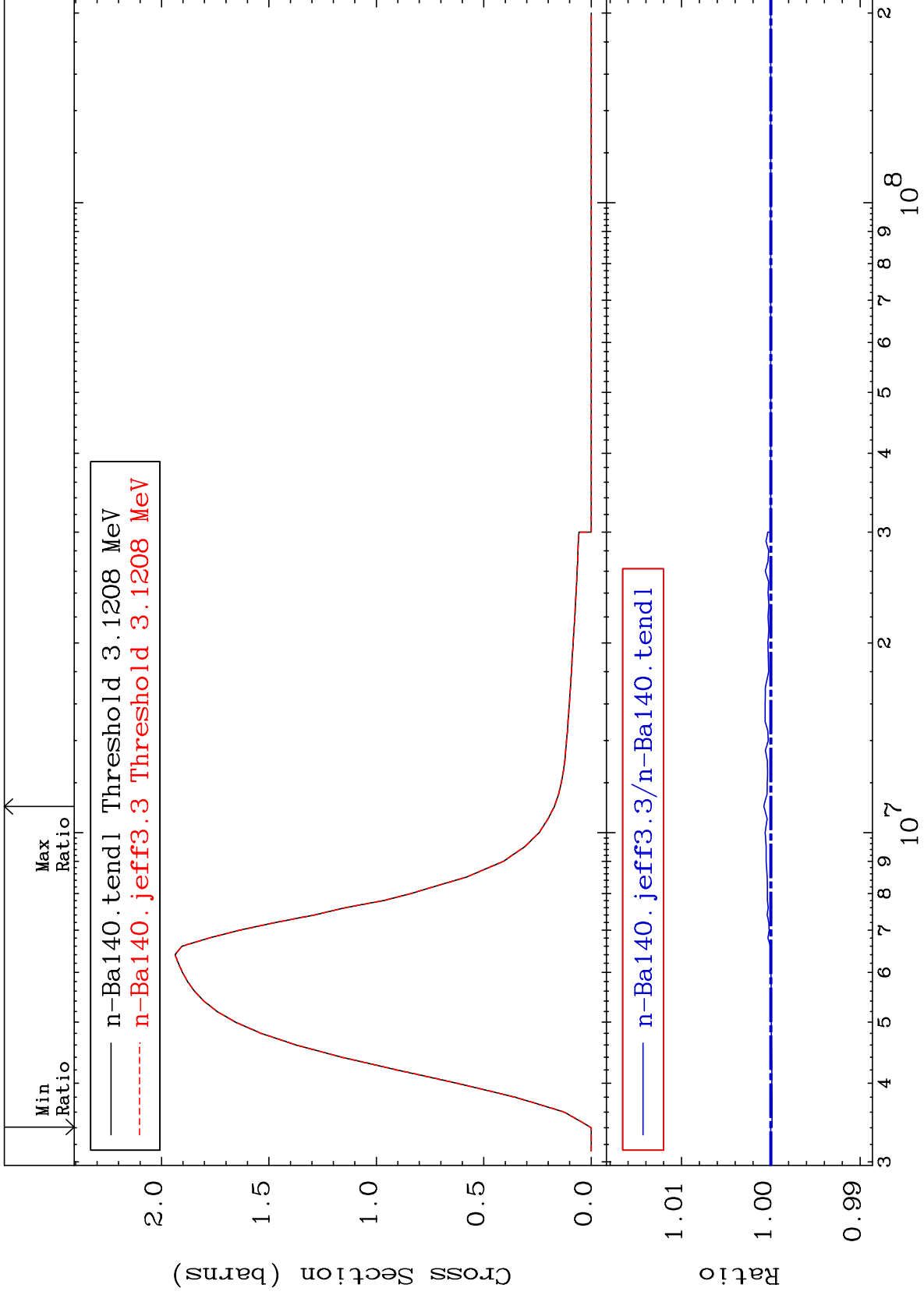
56-Ba-140
To 0.536 %



MAT 5655

(n, n') Continuum
Cross Section

56-Ba-140
-0.014 To 0.078 %



45

Incident Energy (eV)

56-Ba-140

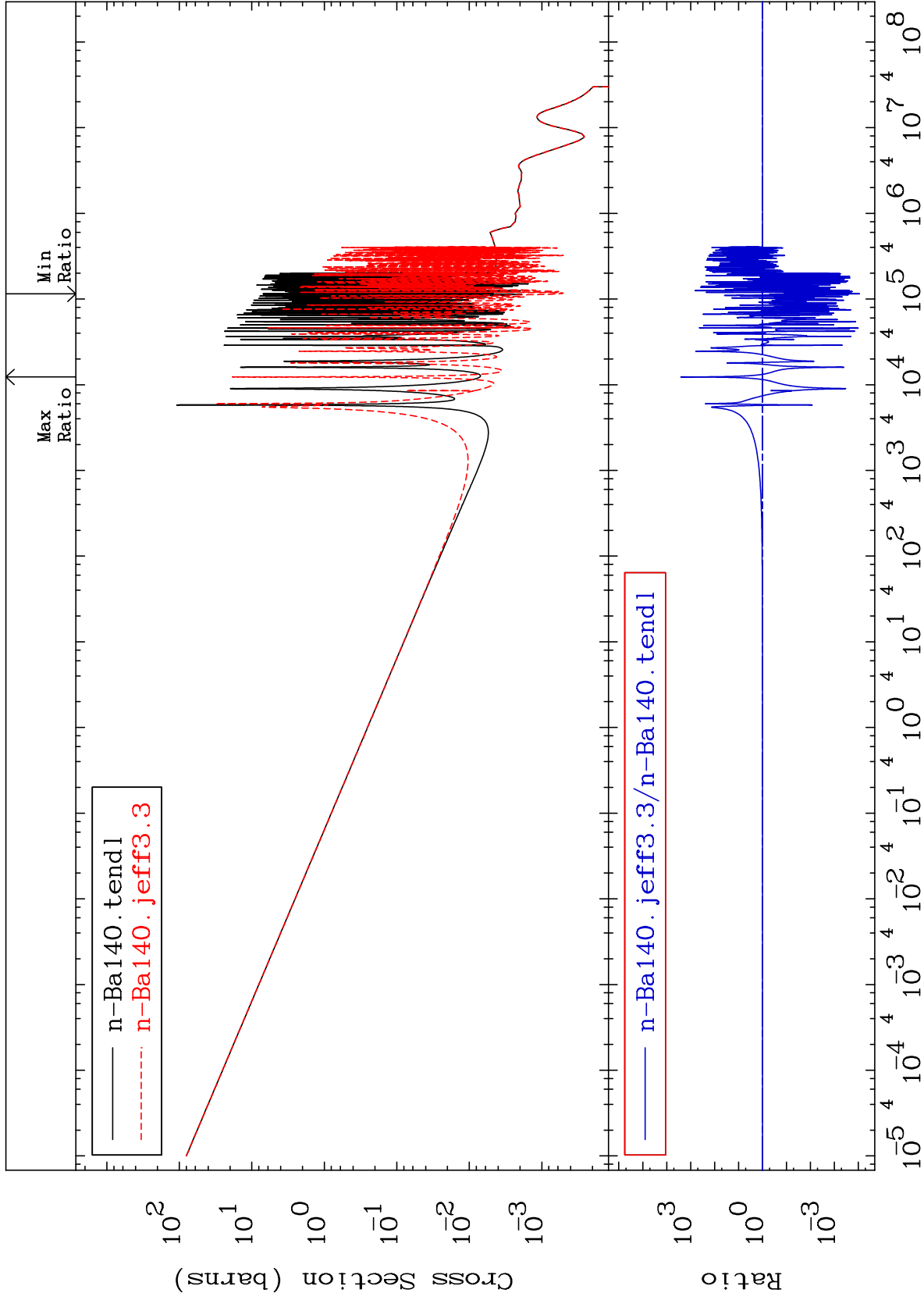
MAT 5655

(n, γ)

56-Ba-140

Cross Section

-99.99 To 9999. %



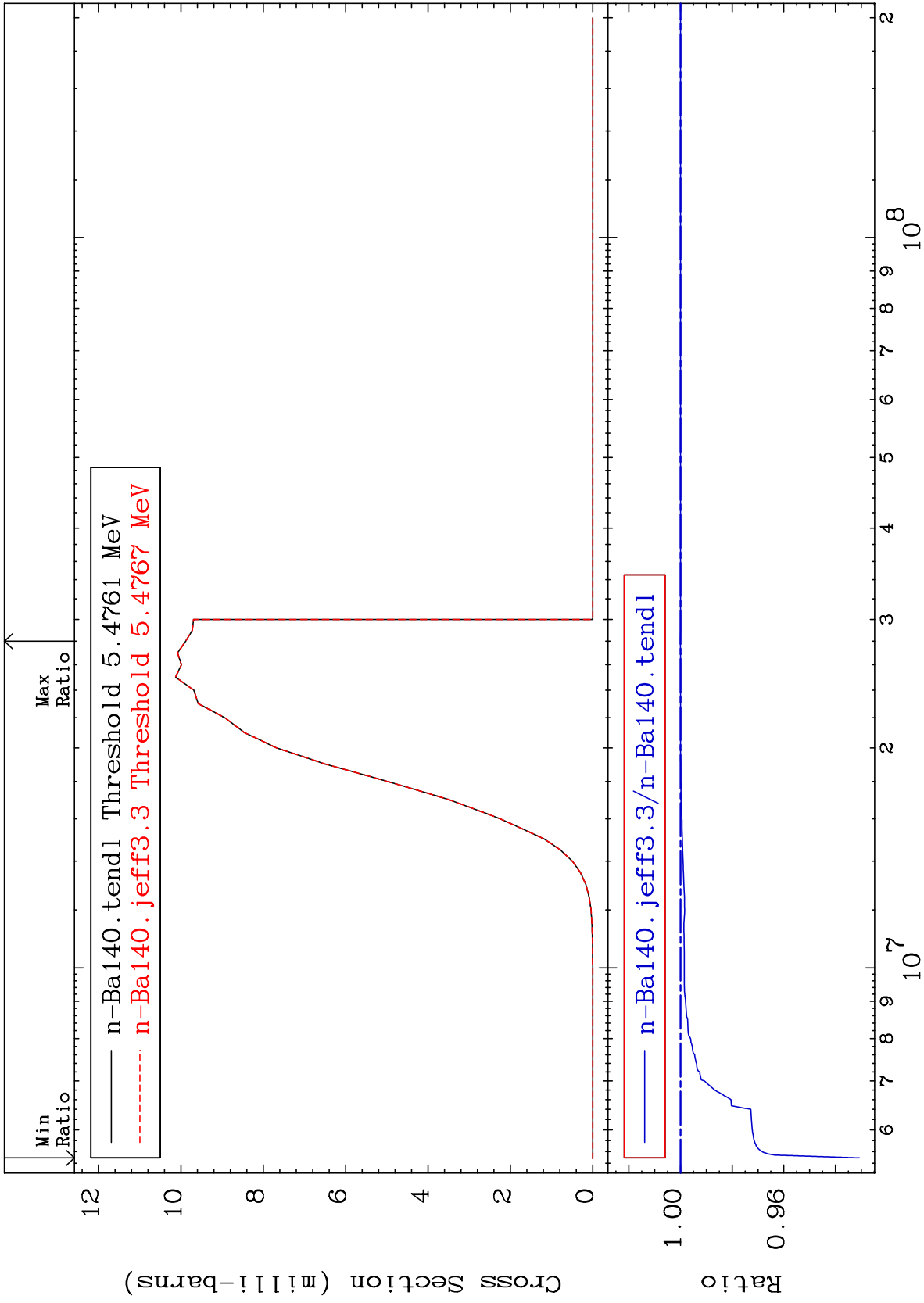
Incident Energy (eV)

56-Ba-140

46

MAT 5655

(n,p)
Cross Section
56-Ba-140
-6.926 To 0.004 %



47

Incident Energy (eV)

56-Ba-140

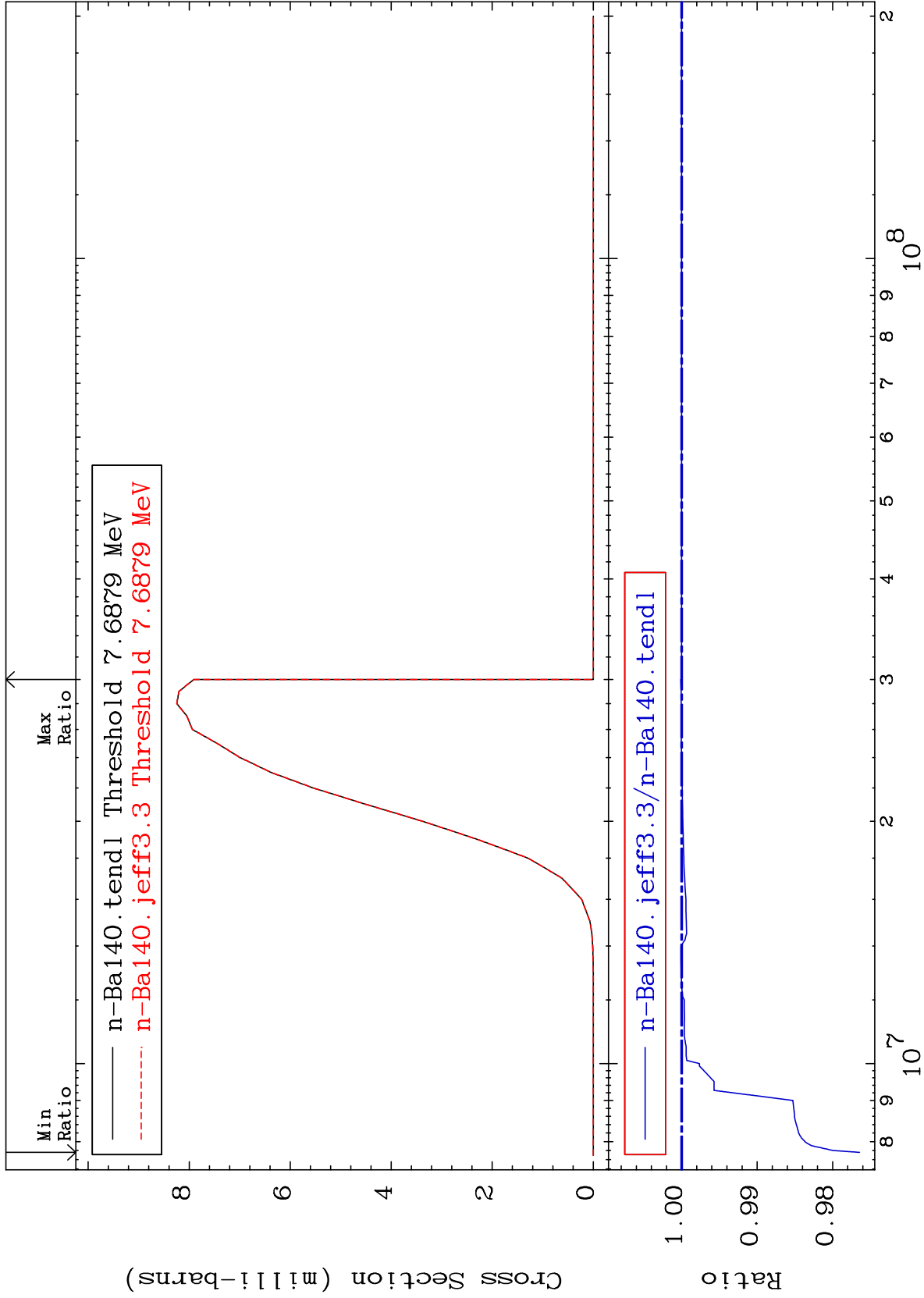
MAT 5655

(n, d)

56-Ba-140

-2.356 To 0.011 %

Cross Section



48

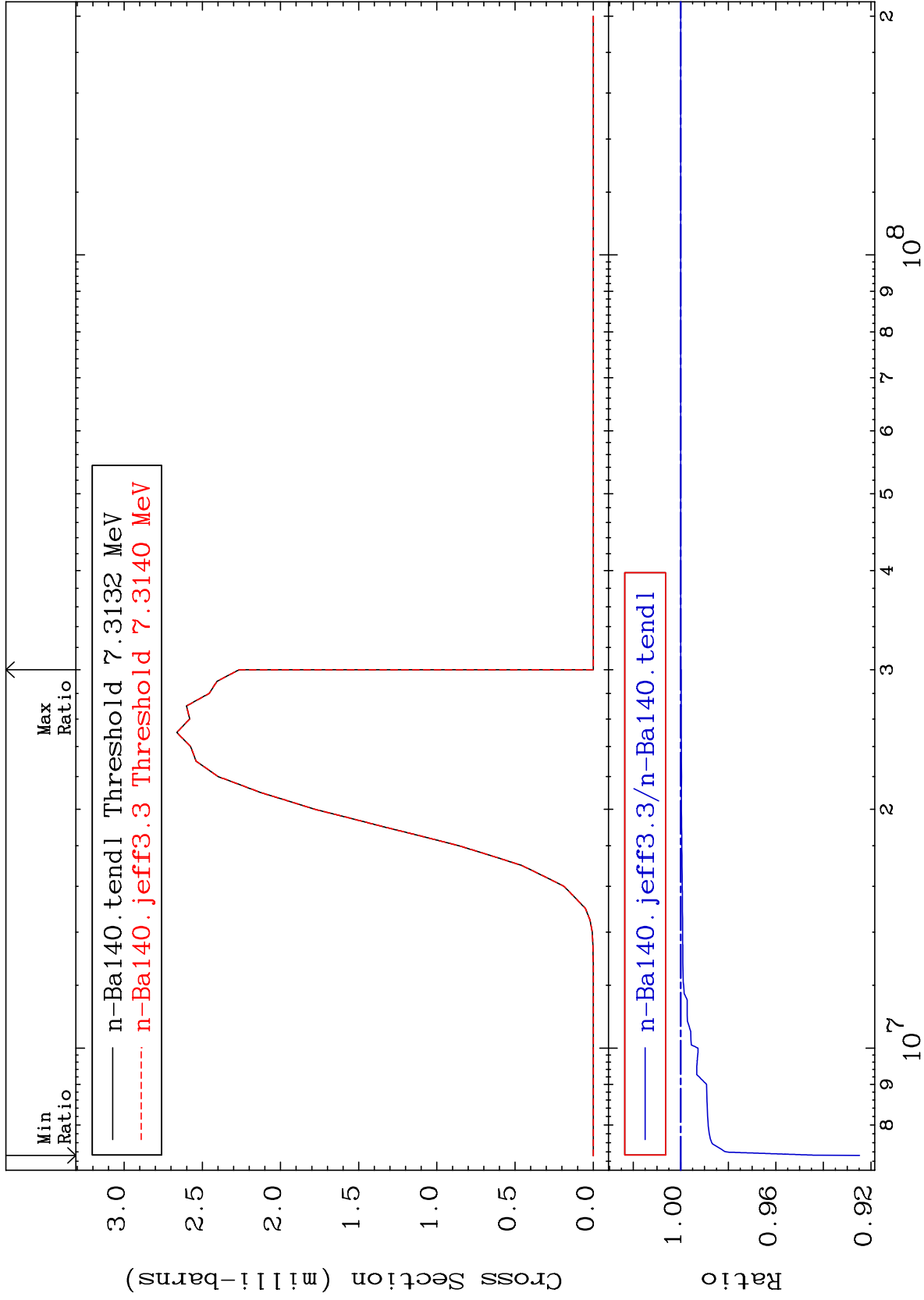
56-Ba-140

56-Ba-140

MAT 5655

56-Ba-140

(n, t)
Cross Section
-7.520 To 0.000 %



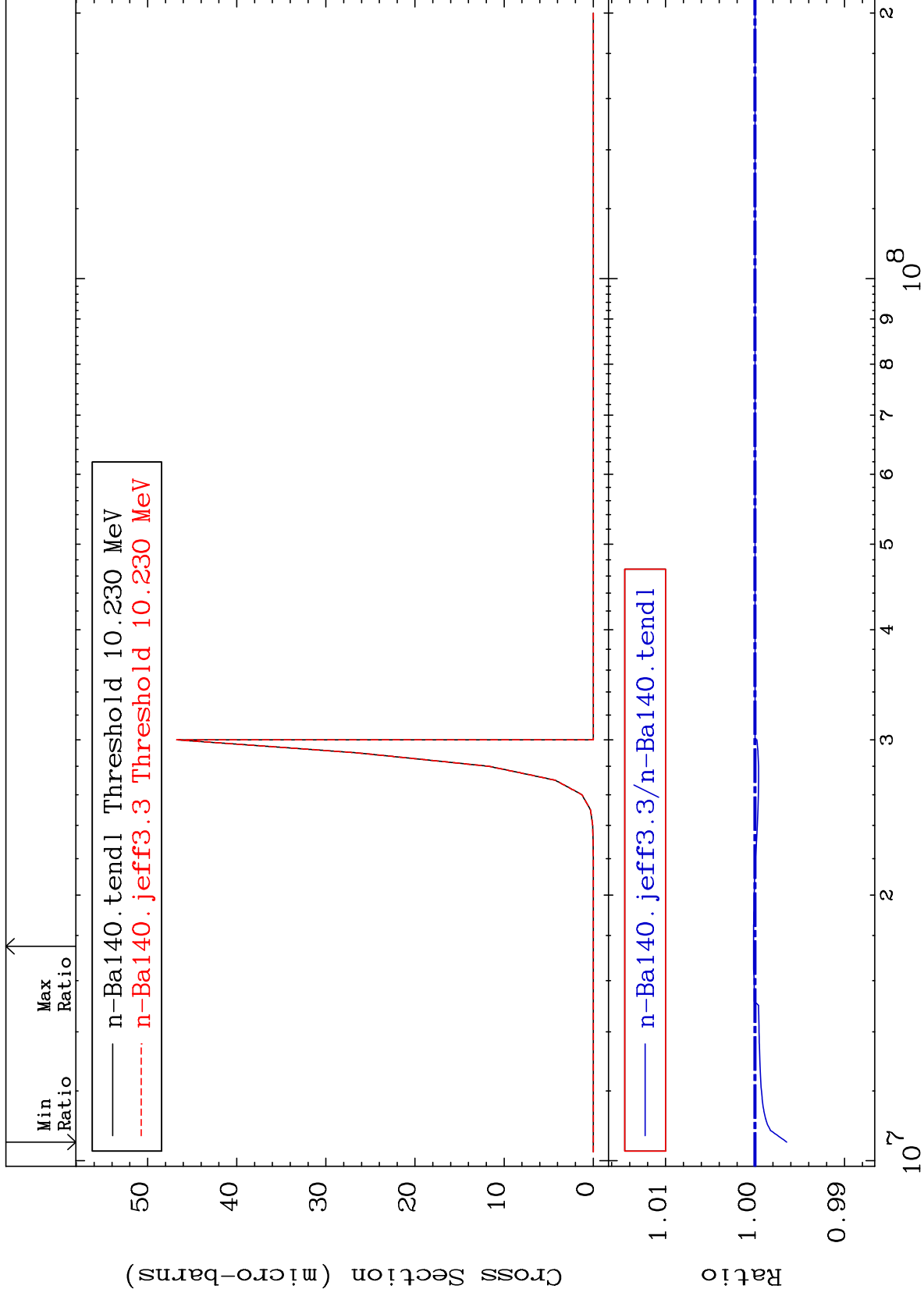
MAT 5655

(n, He-3)

56-Ba-140

Cross Section

-0.355 To 0.016 %



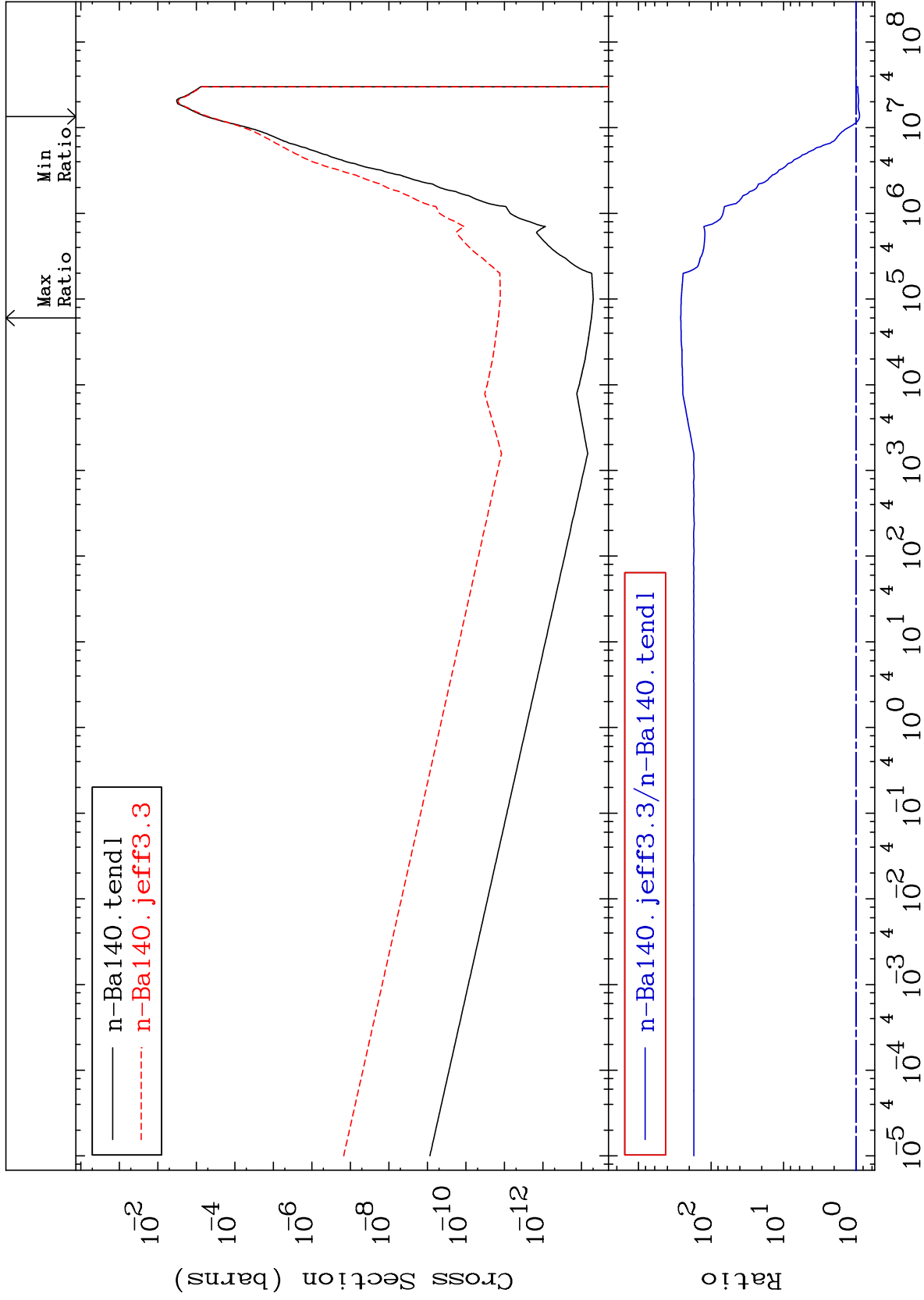
MAT 5655

(n, α)

56-Ba-140

Cross Section

-10.75 To 9999. %



51

Incident Energy (eV)

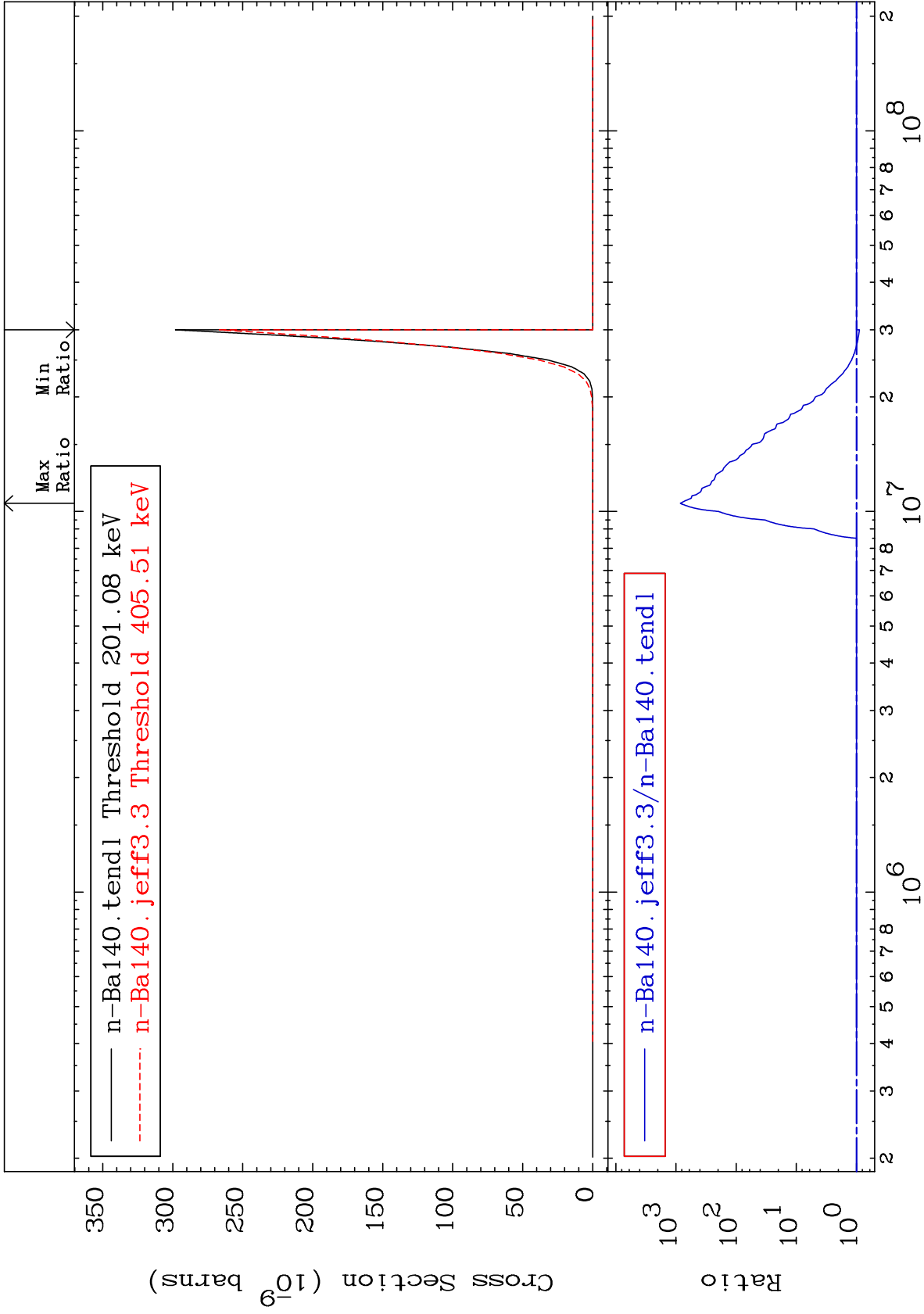
56-Ba-140

MAT 5655

(n,2α)
Cross Section

56-Ba-140

-10.56 To 9999. %



52

Incident Energy (eV)

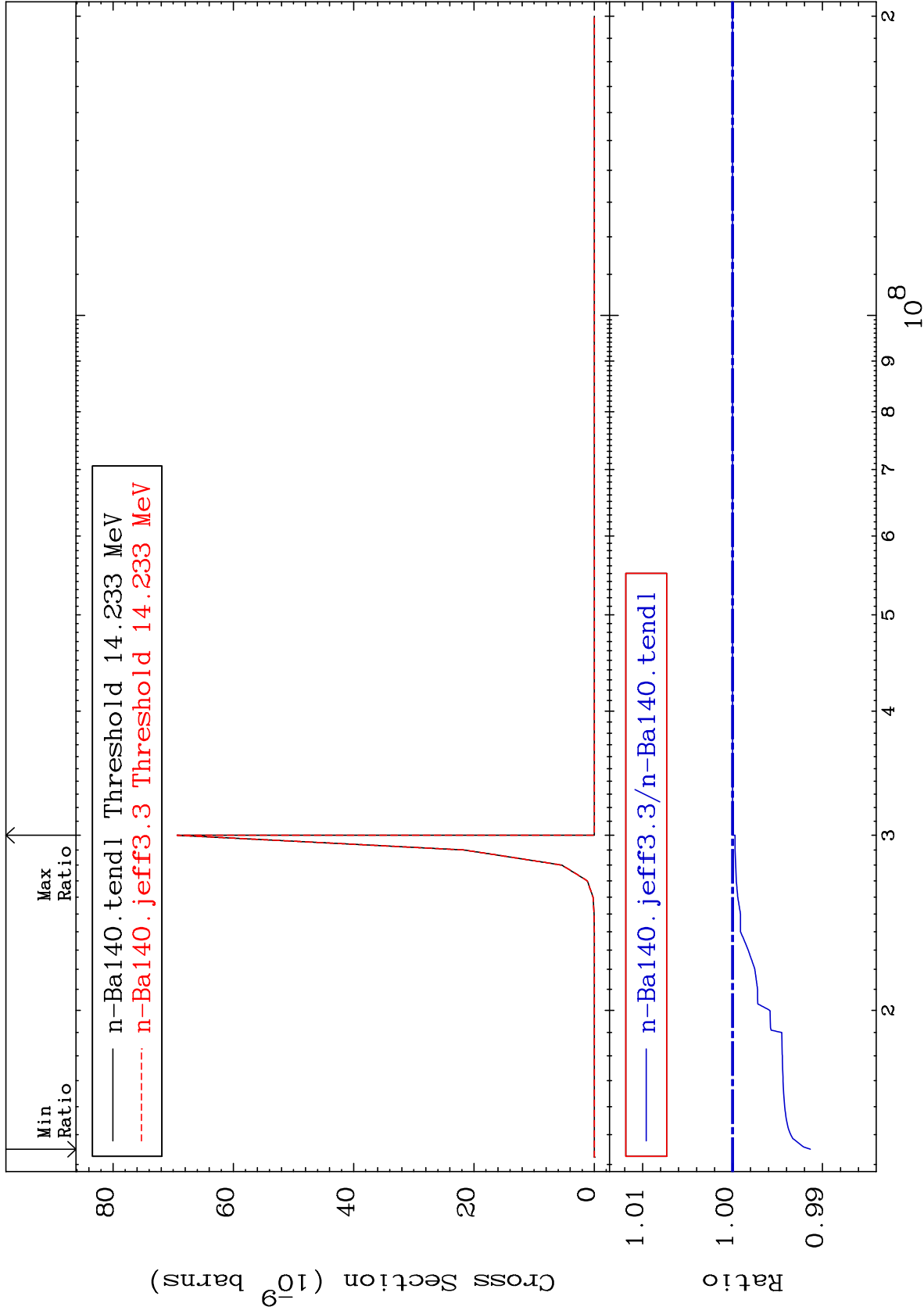
56-Ba-140

MAT 5655

56-Ba-140

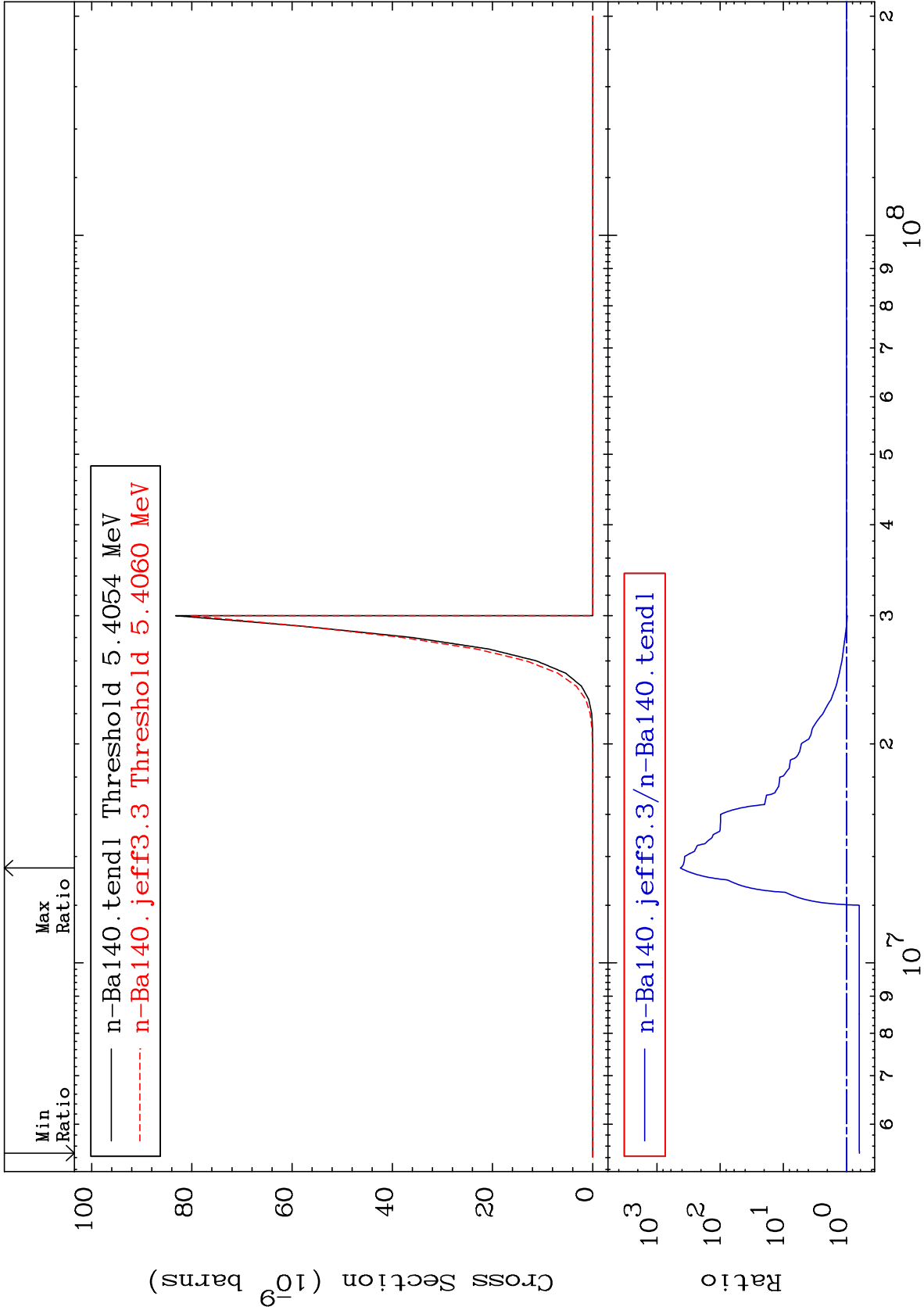
(n,2p)
Cross Section

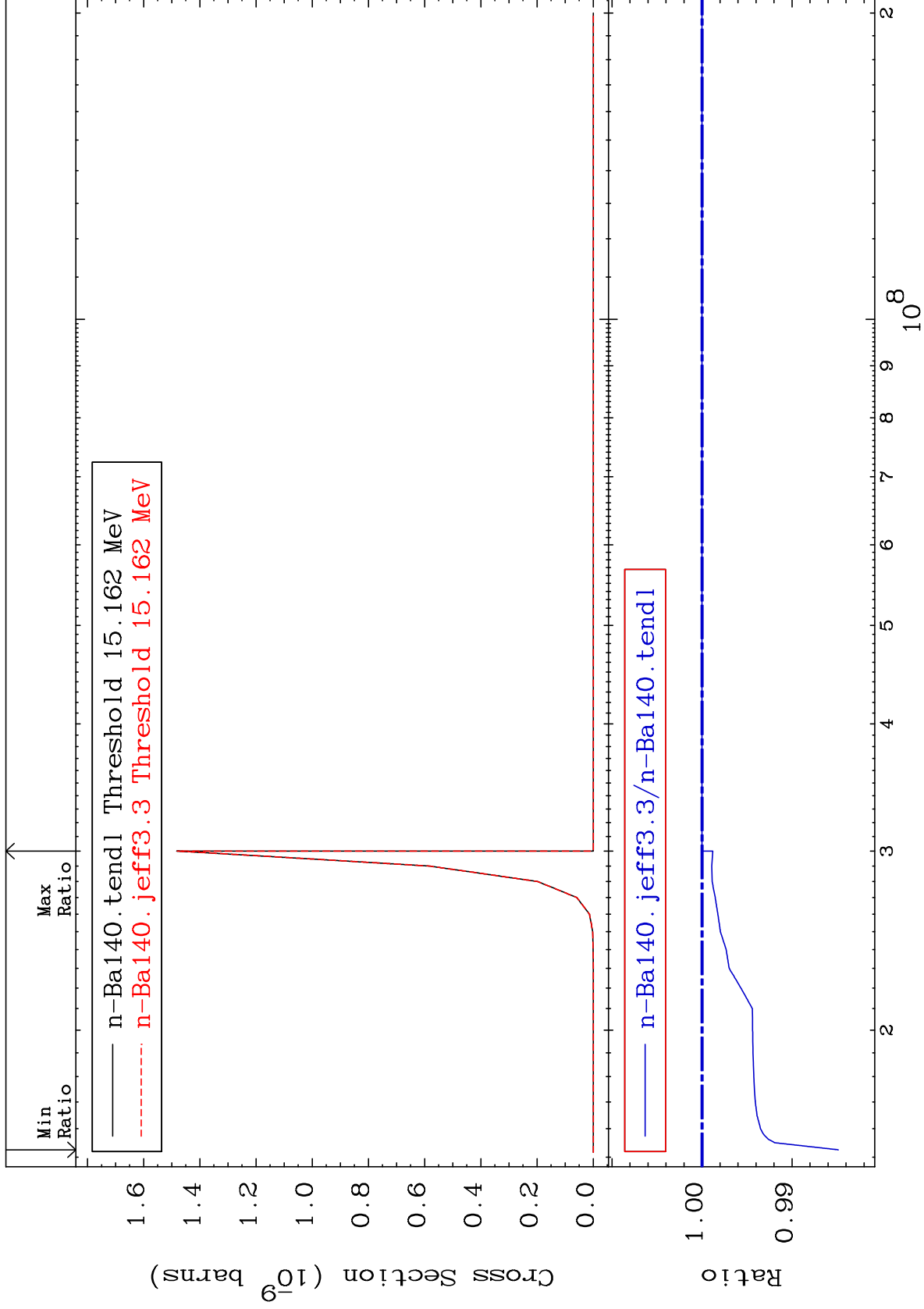
-0.865 To 0.000 %



Cross Section

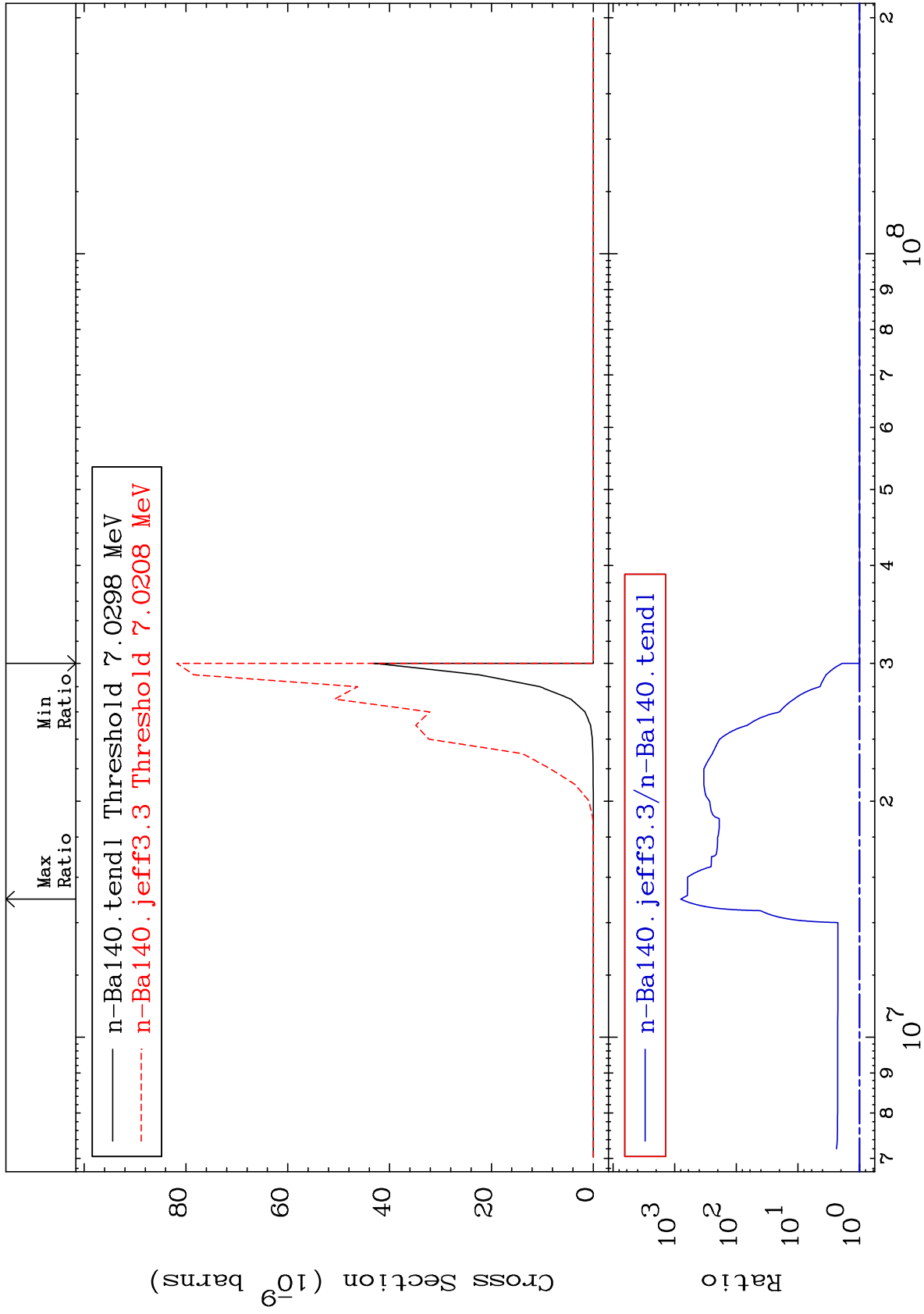
-37.73 To 9999. %





MAT 5655

(n, d) α Cross Section
56-Ba-140
0.000 To 9999. %



56

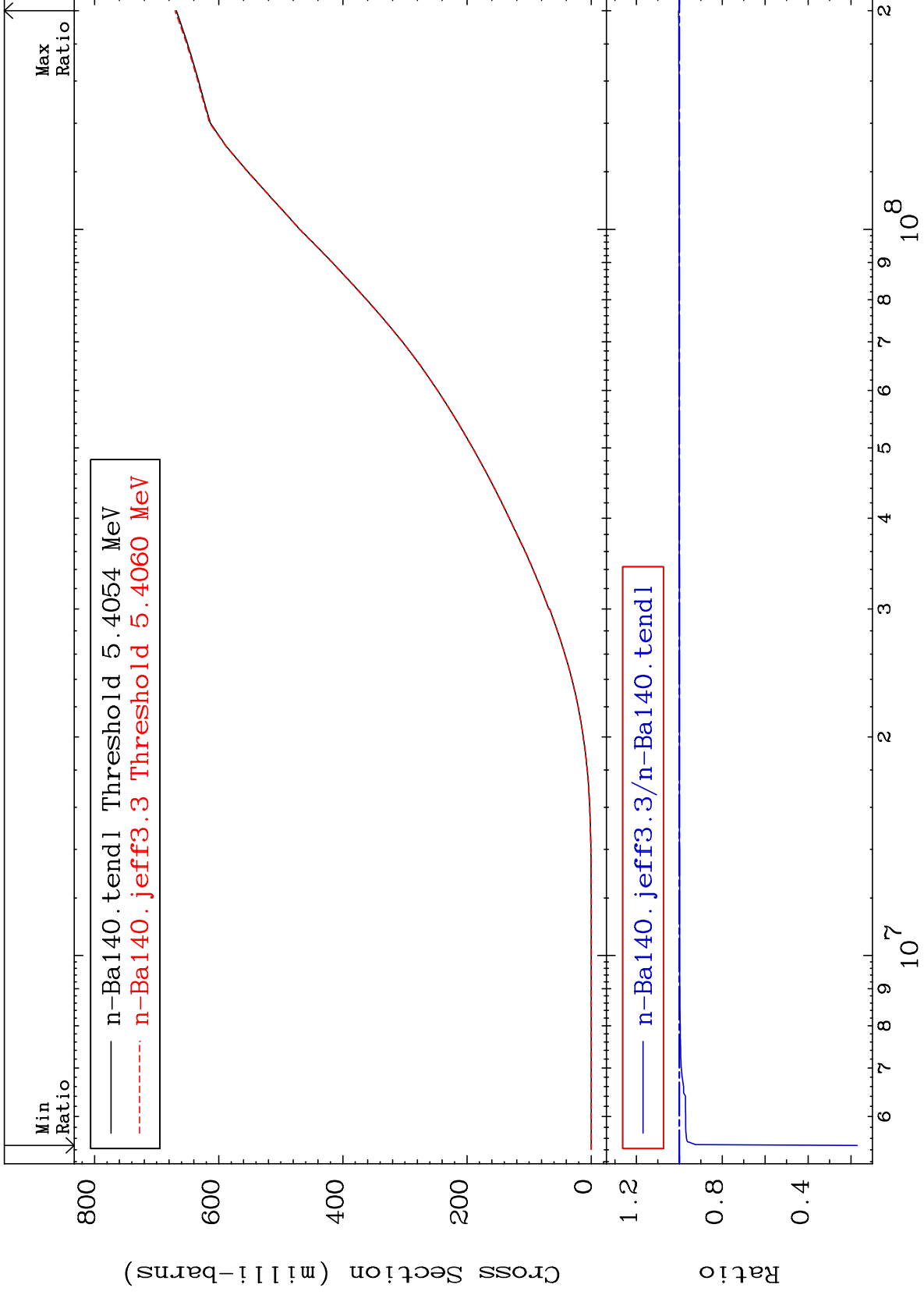
Incident Energy (eV)

56-Ba-140

MAT 5655

Hydrogen Production
Cross Section

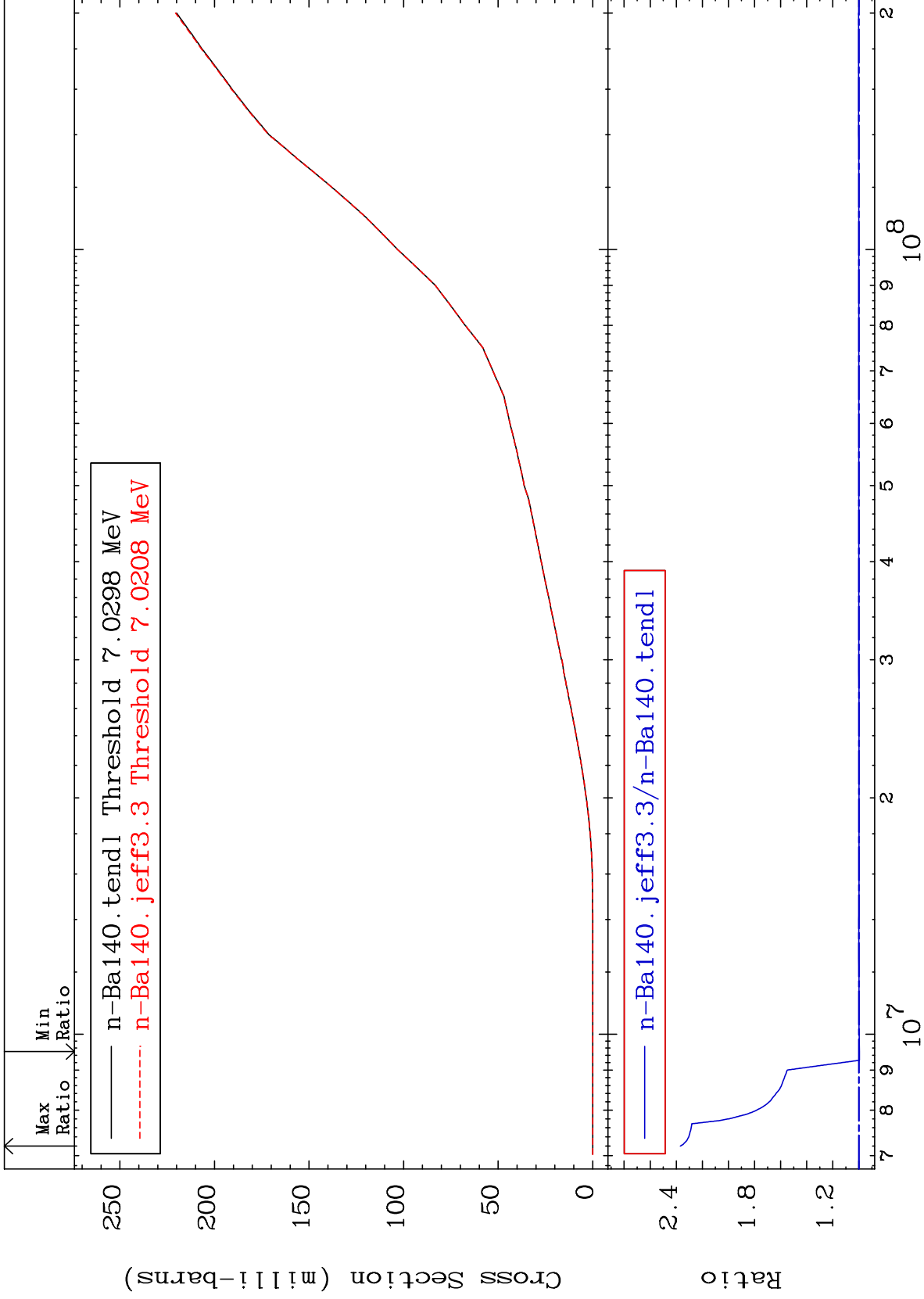
56-Ba-140
-82.91 To 0.320 %



MAT 5655

Deuterium Production
Cross Section

56-Ba-140
-0.407 To 136.9 %



58

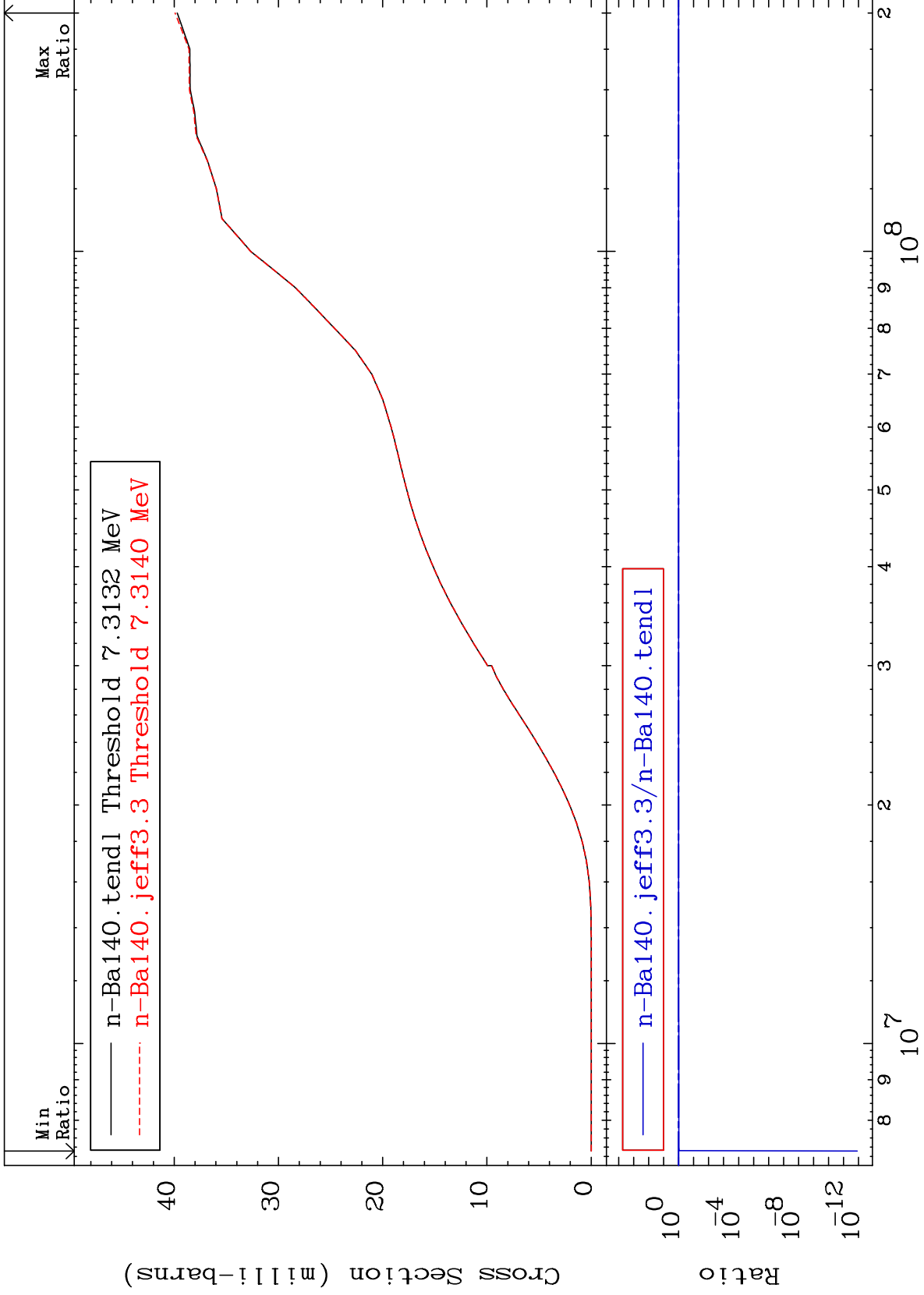
Incident Energy (eV)

56-Ba-140

MAT 5655

Tritium Production
Cross Section

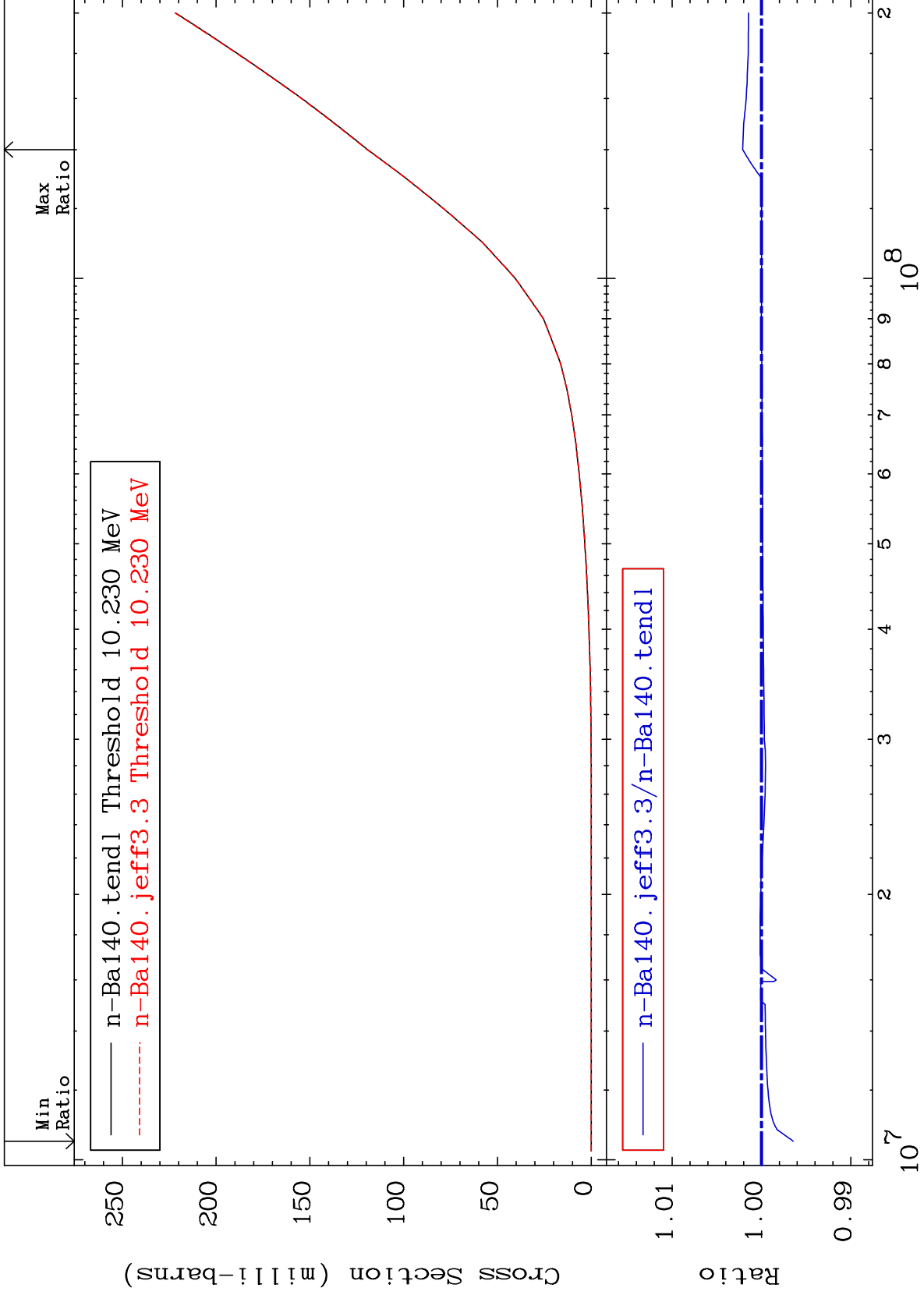
56-Ba-140
-100.0 To 0.523 %



MAT 5655

He-3 Production
Cross Section

56-Ba-140
-0.355 To 0.210 %



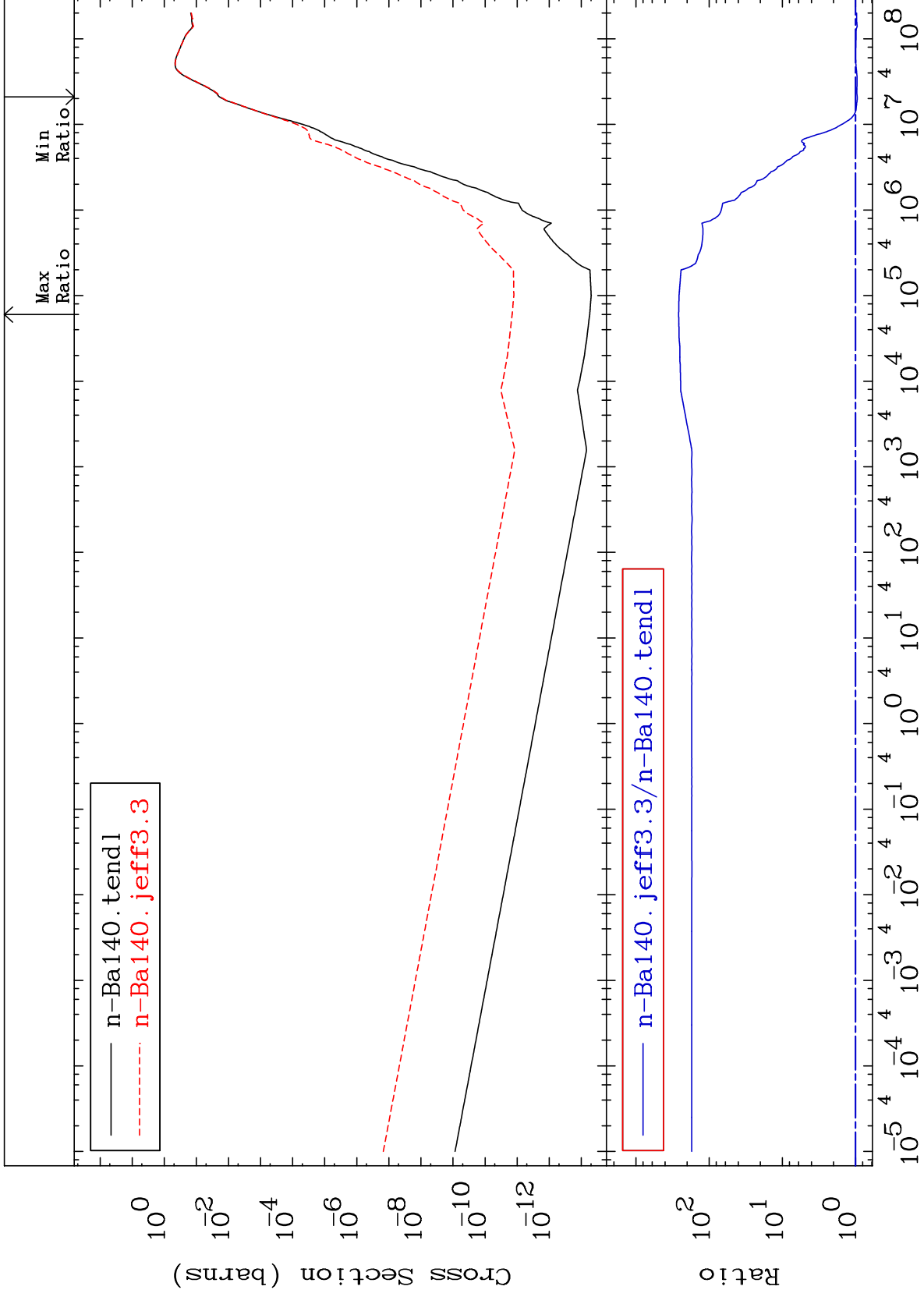
Incident Energy (eV)

56-Ba-140

MAT 5655

He-4 Production
Cross Section

56-Ba-140
-5.377 To 9999. %



61

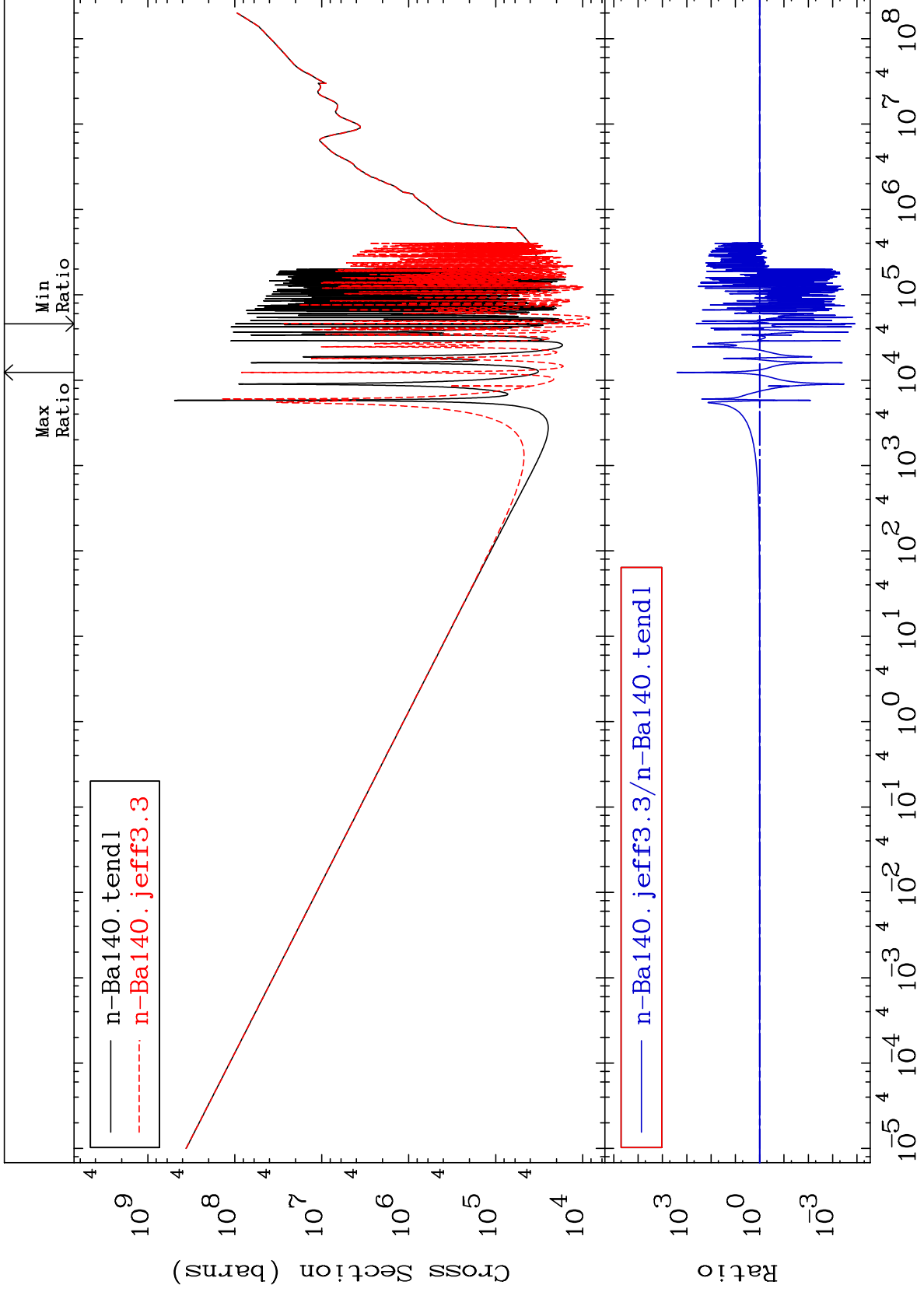
Incident Energy (eV)

56-Ba-140

MAT 5655

Kerma total (eV-barns)
Cross Section

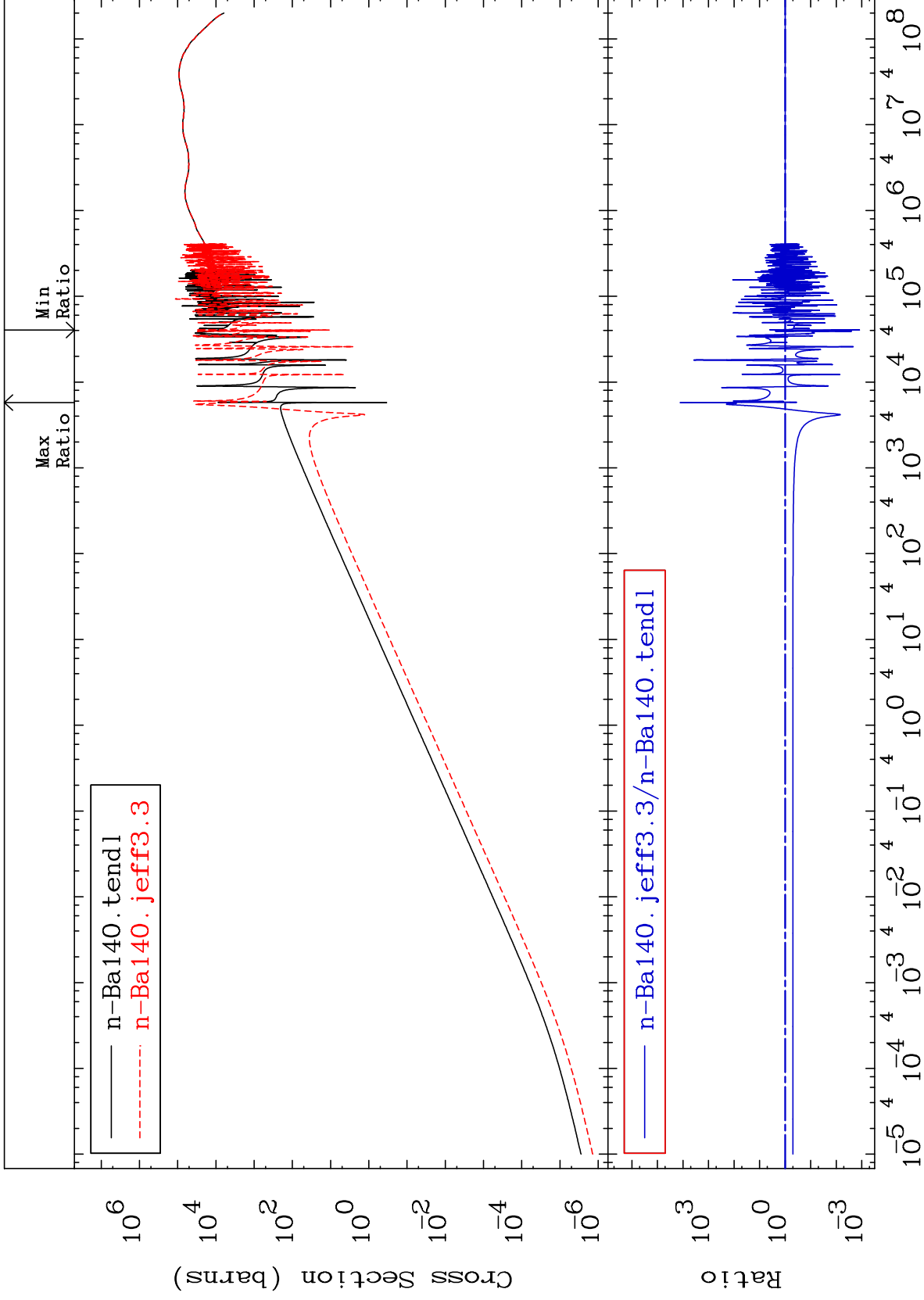
56-Ba-140
-99.99 To 9999. %



MAT 5655

Kerma elastic
Cross Section

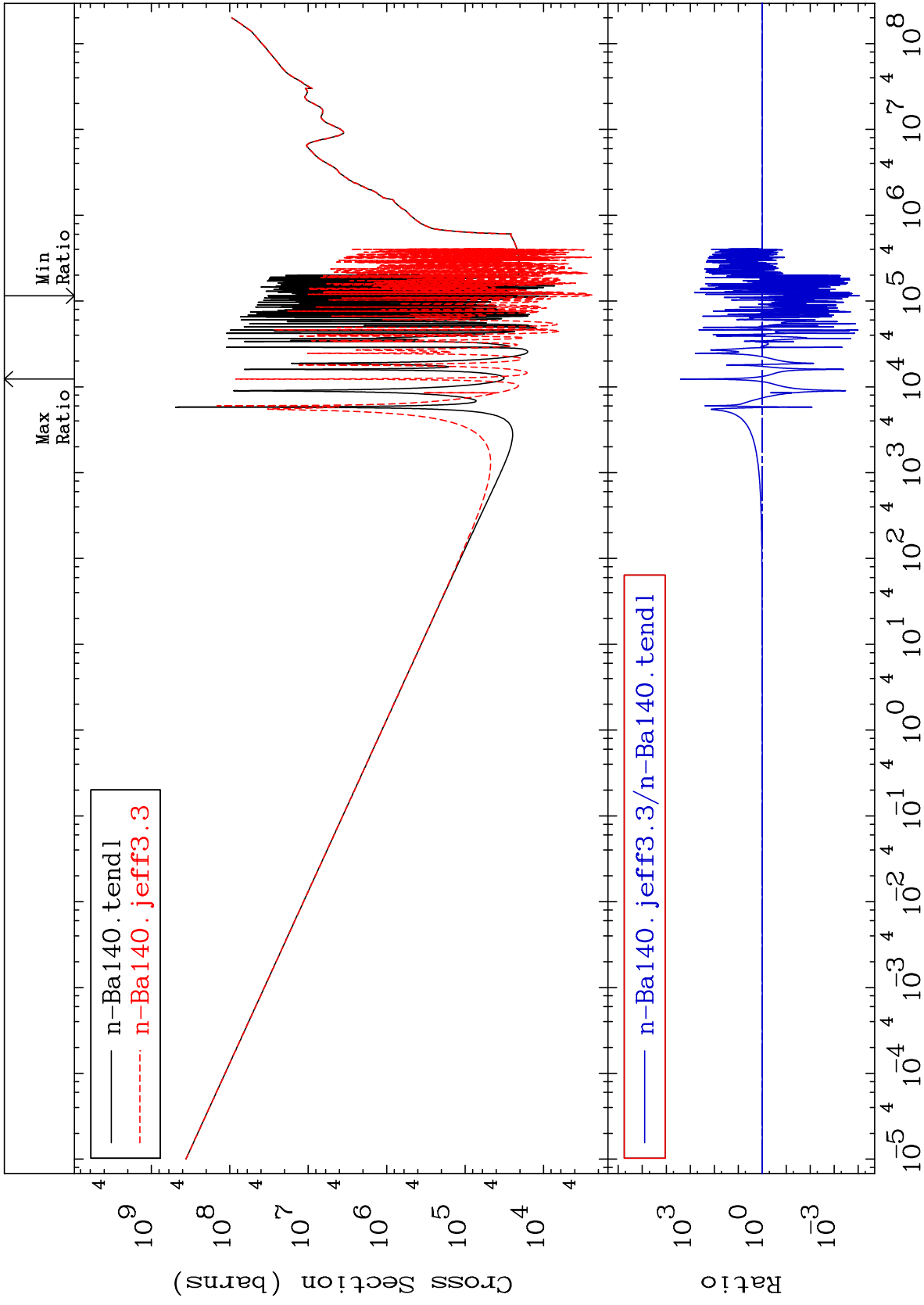
56-Ba-140
-99.88 To 9999. %



63

Incident Energy (eV)

56-Ba-140

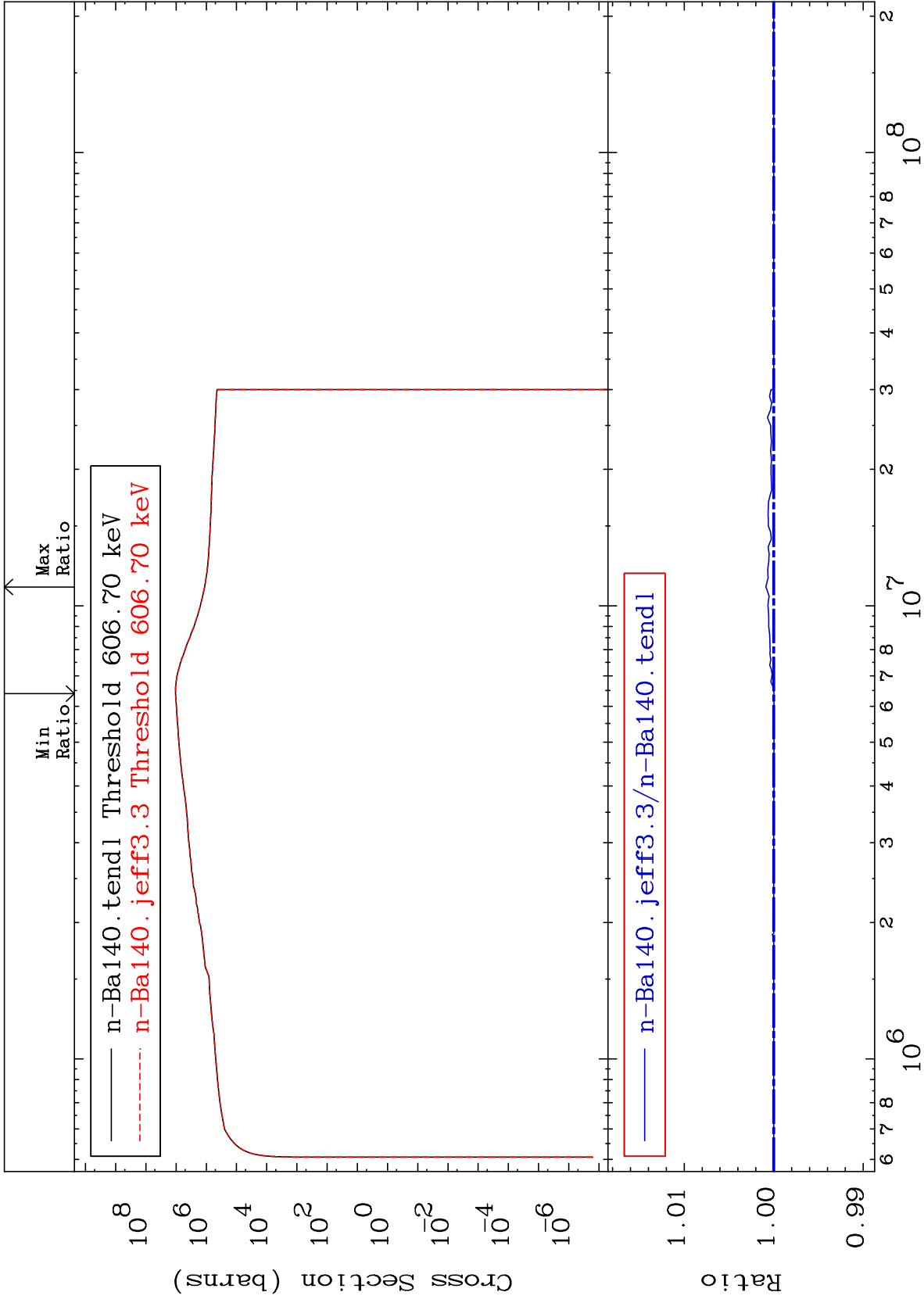


MAT 5655

Kerma inelastic (mt51-91)

56-Ba-140

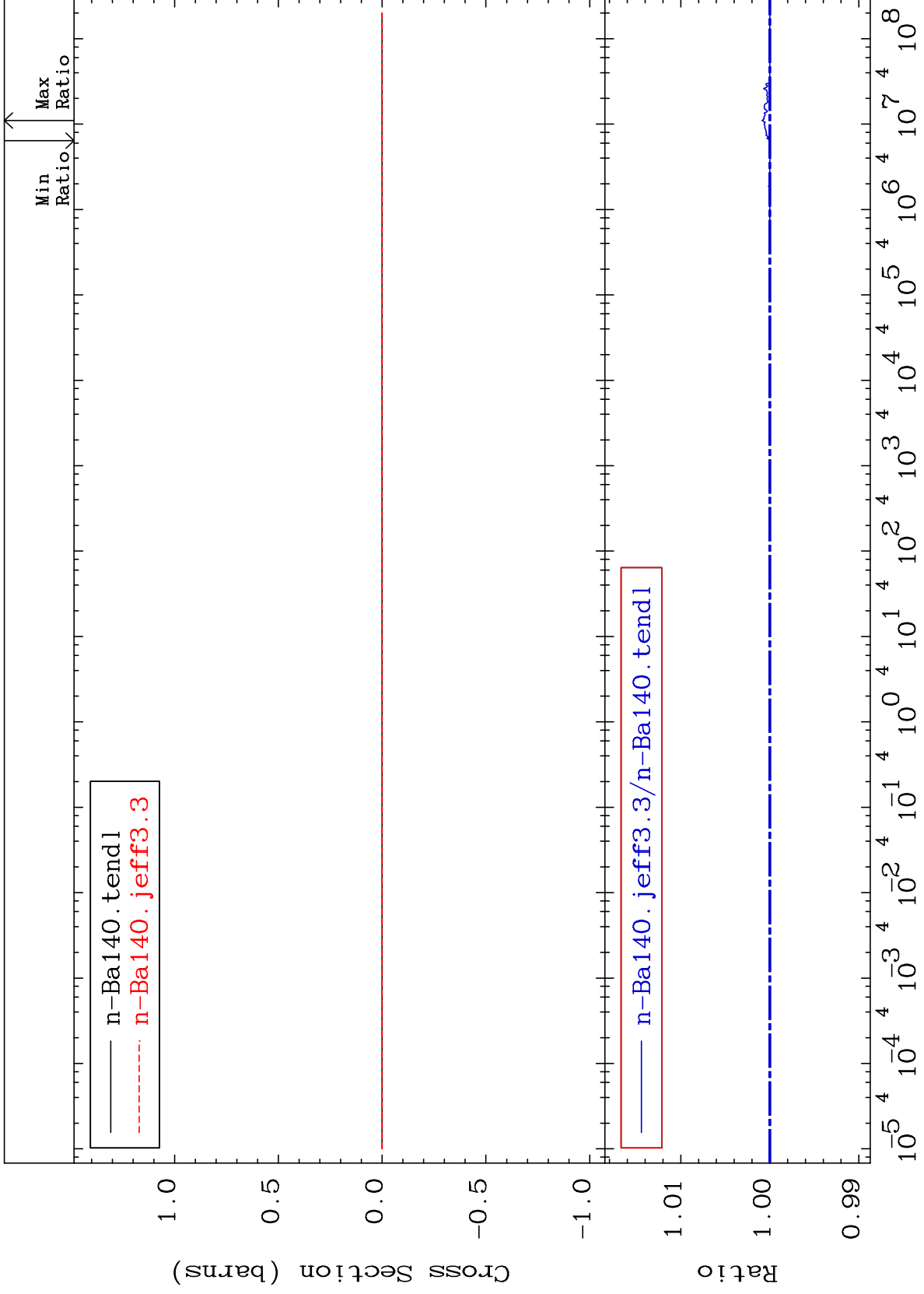
-0.003 To 0.089 %



MAT 5655

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

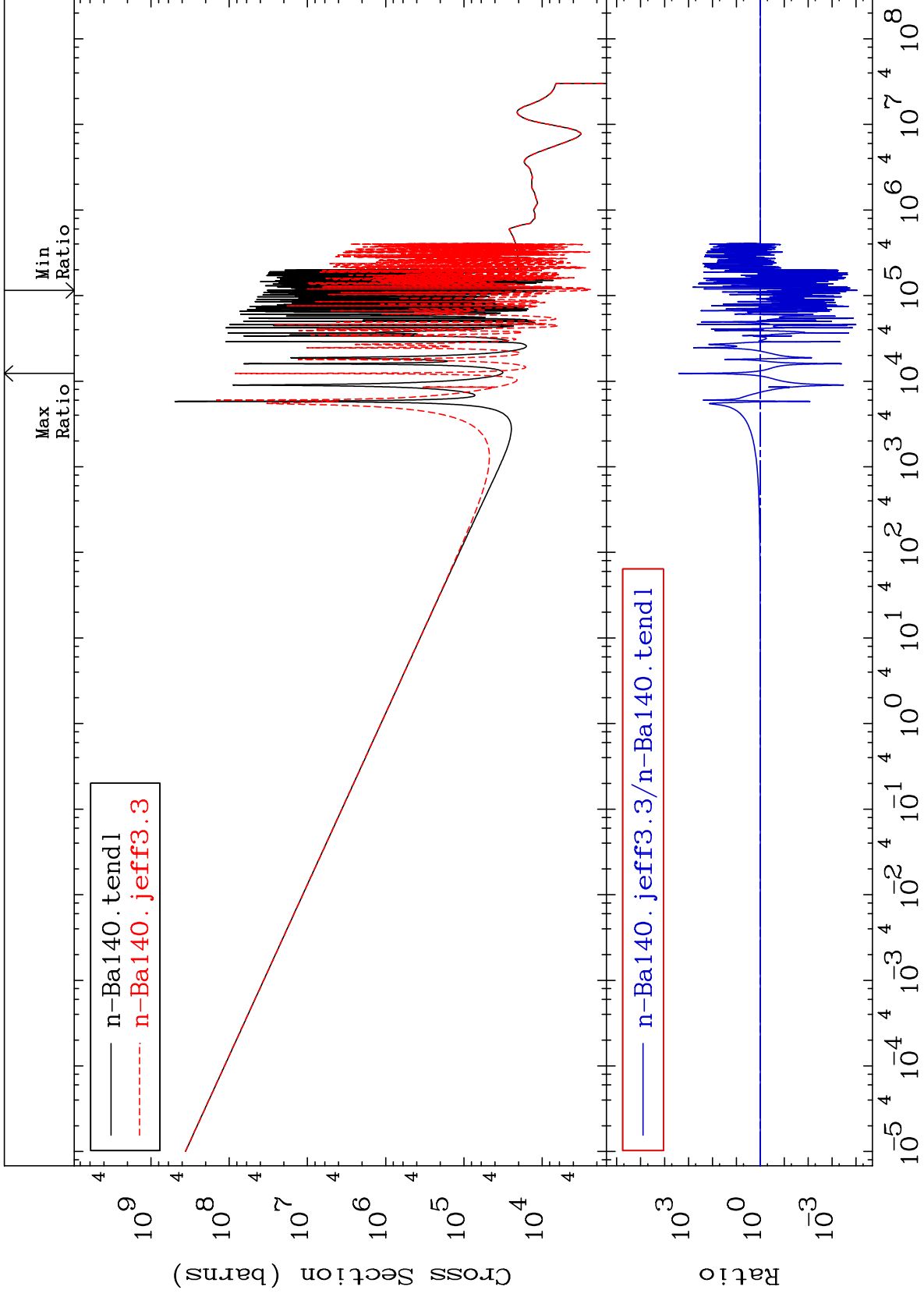
56-Ba-140
-0.003 To 0.089 %



66

Incident Energy (eV)

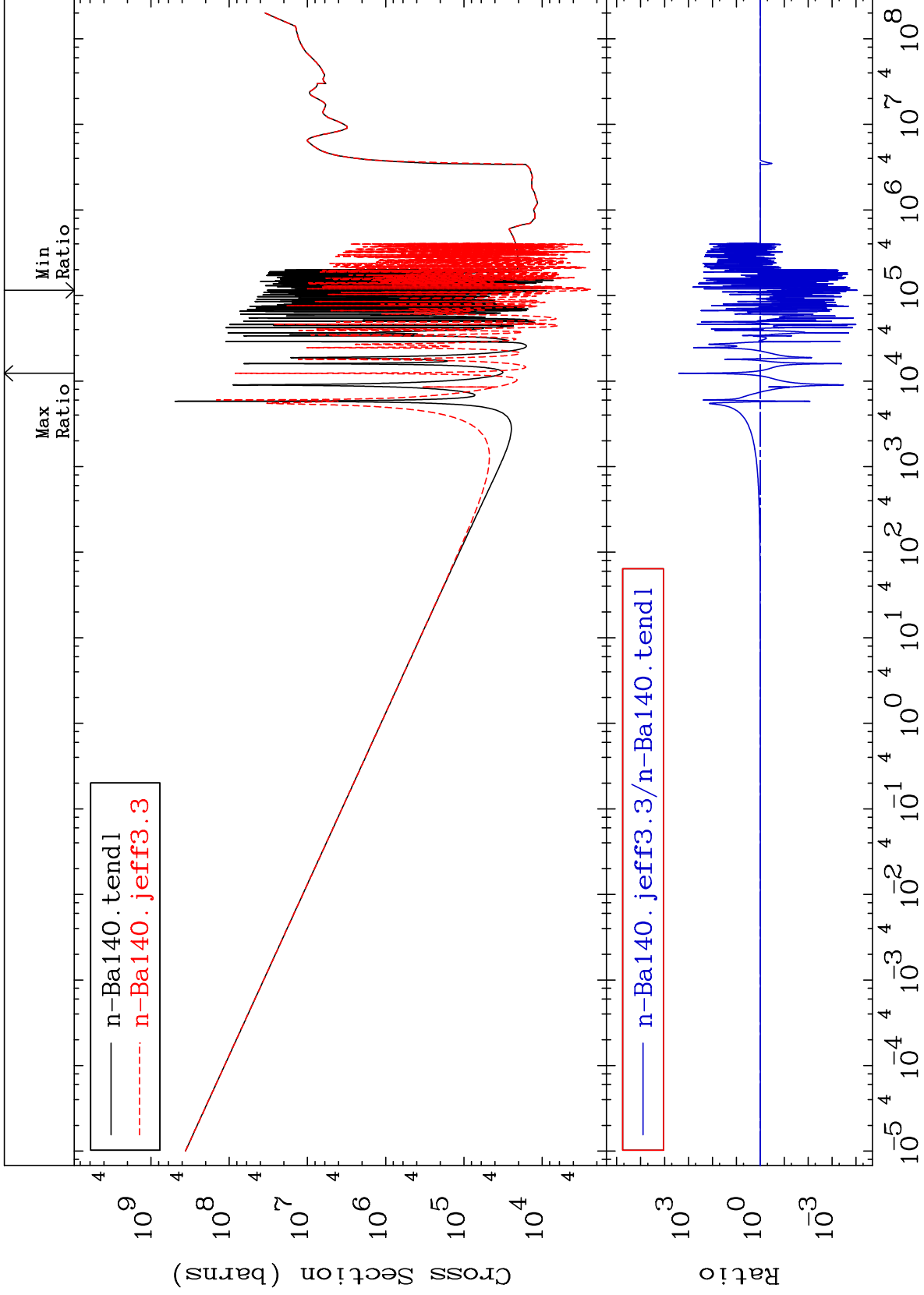
56-Ba-140



MAT 5655

Total photon (eV-barns)
Cross Section

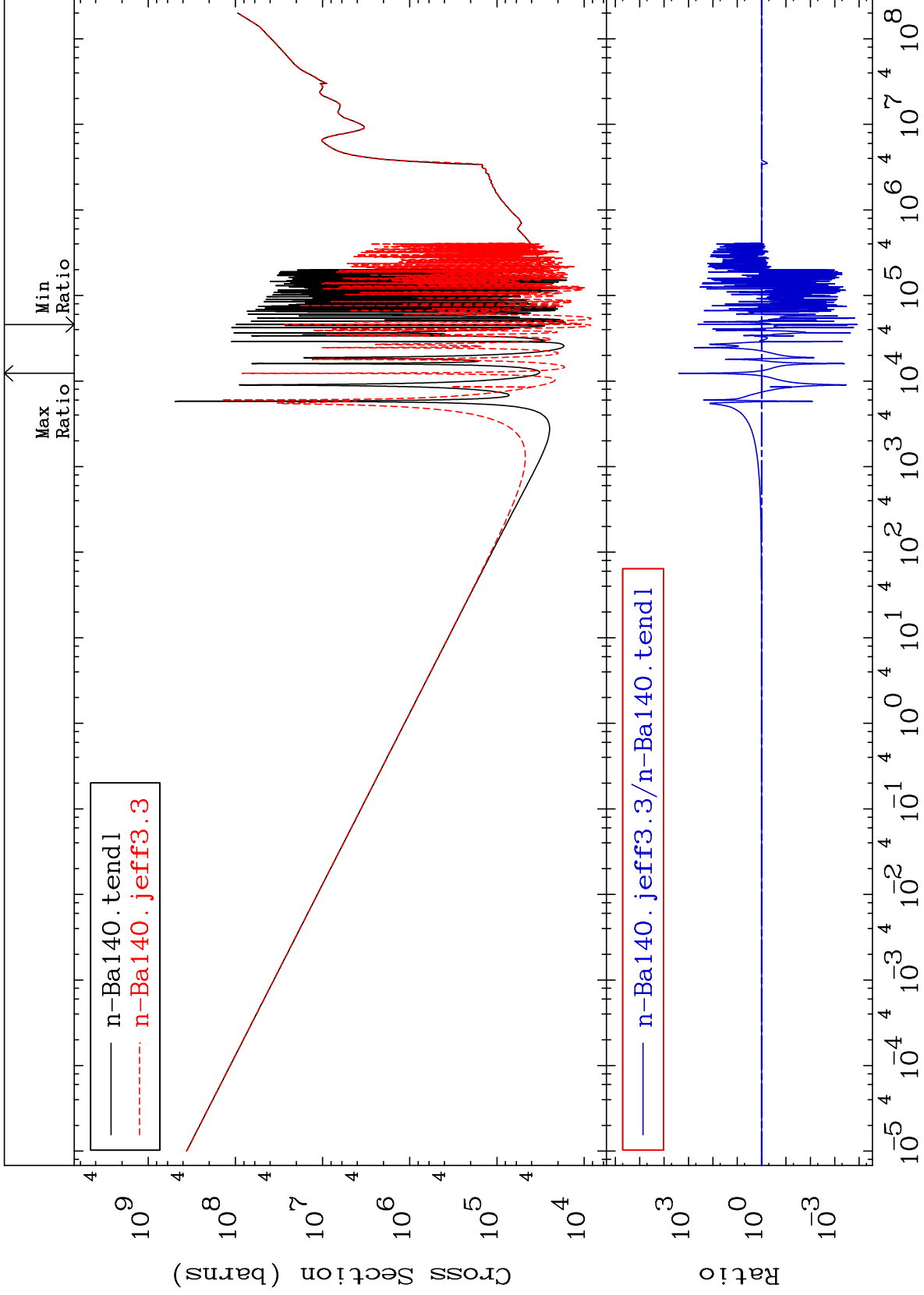
56-Ba-140
-99.99 To 9999. %



68

Incident Energy (eV)

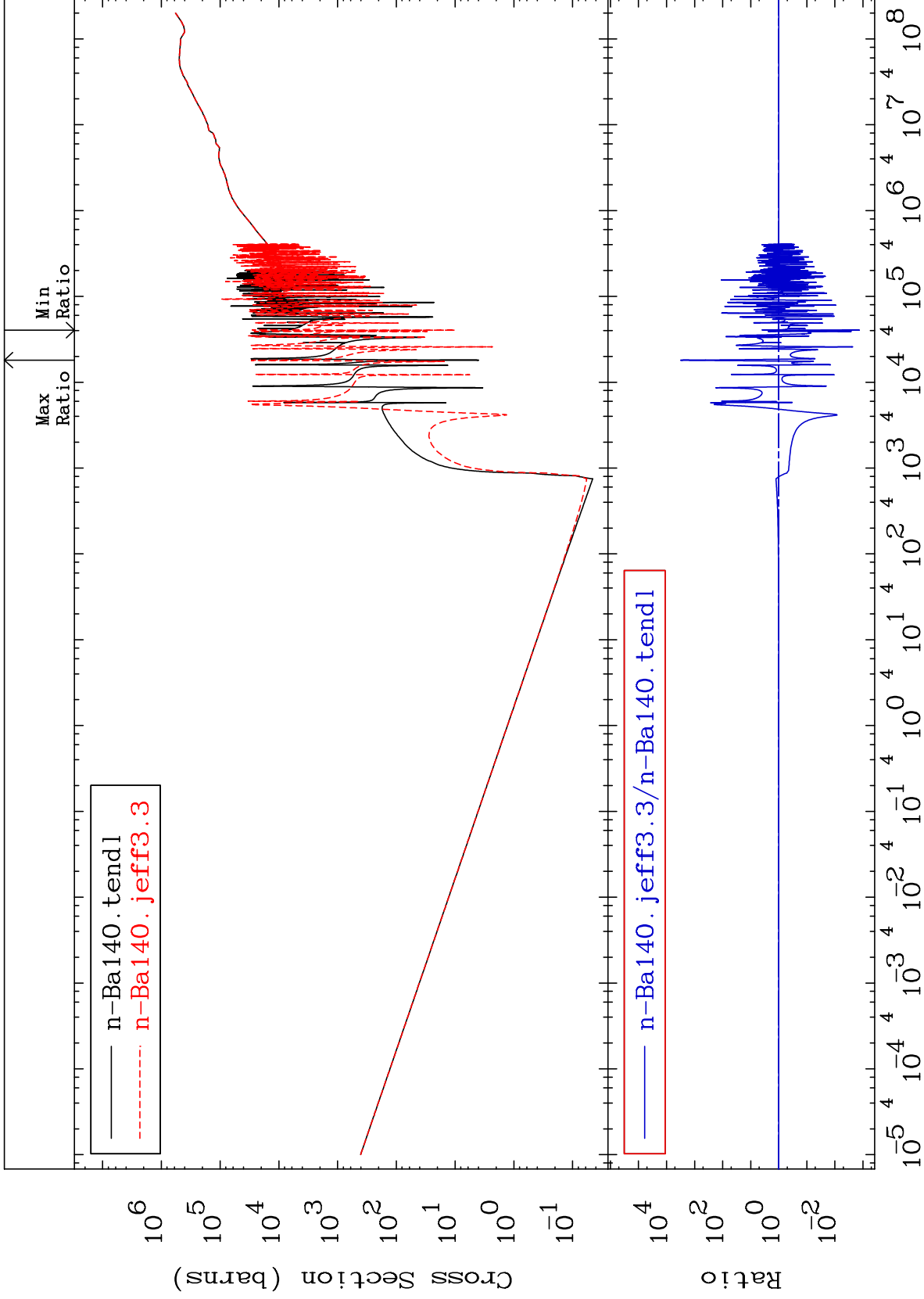
56-Ba-140



MAT 5655

Dpa total (eV-barns)
Cross Section

56-Ba-140
-99.87 To 9999. %



70

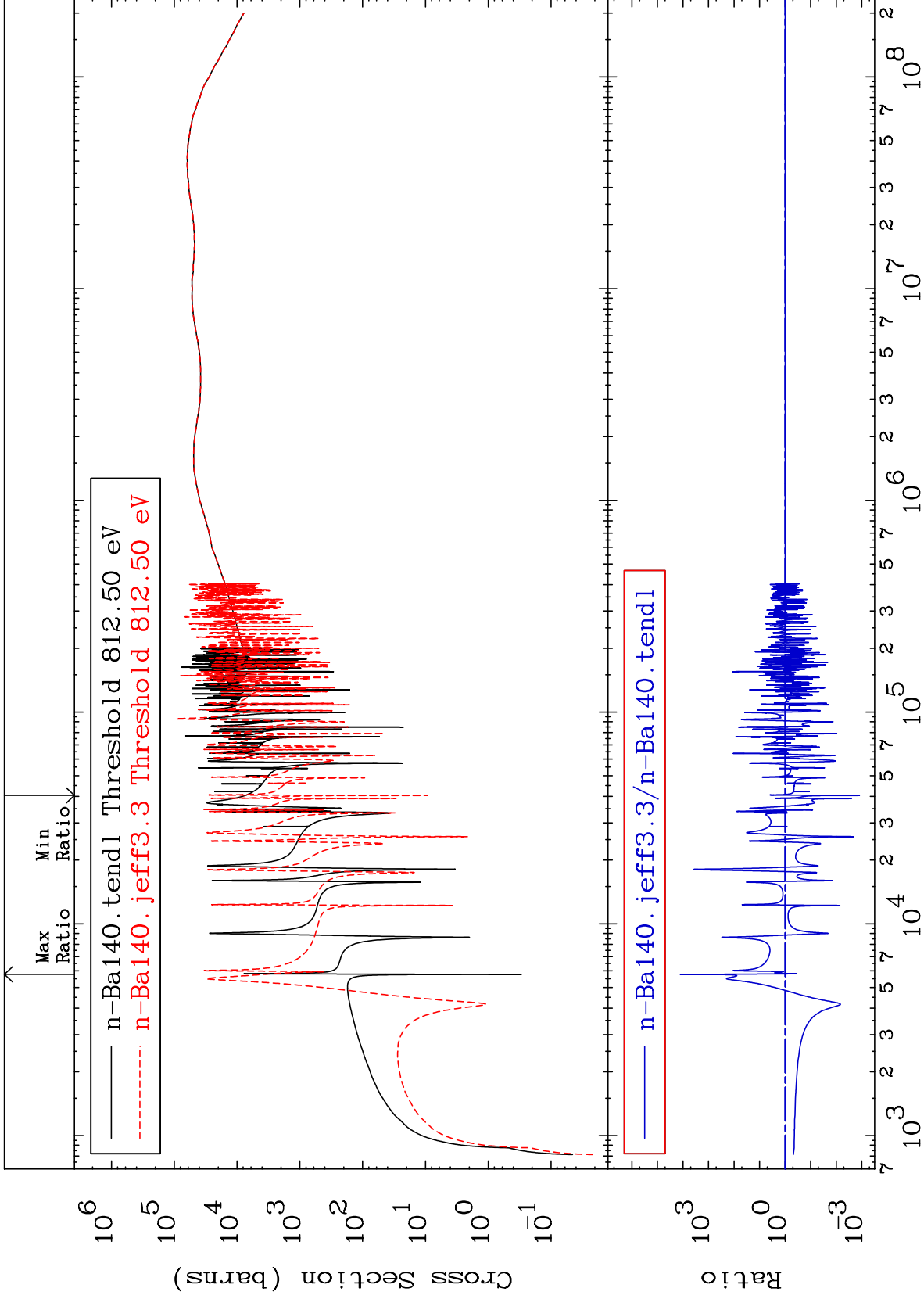
Incident Energy (eV)

56-Ba-140

MAT 5655

Dpa elastic (mt2)
Cross Section

56-Ba-140
-99.88 To 9999. %



71

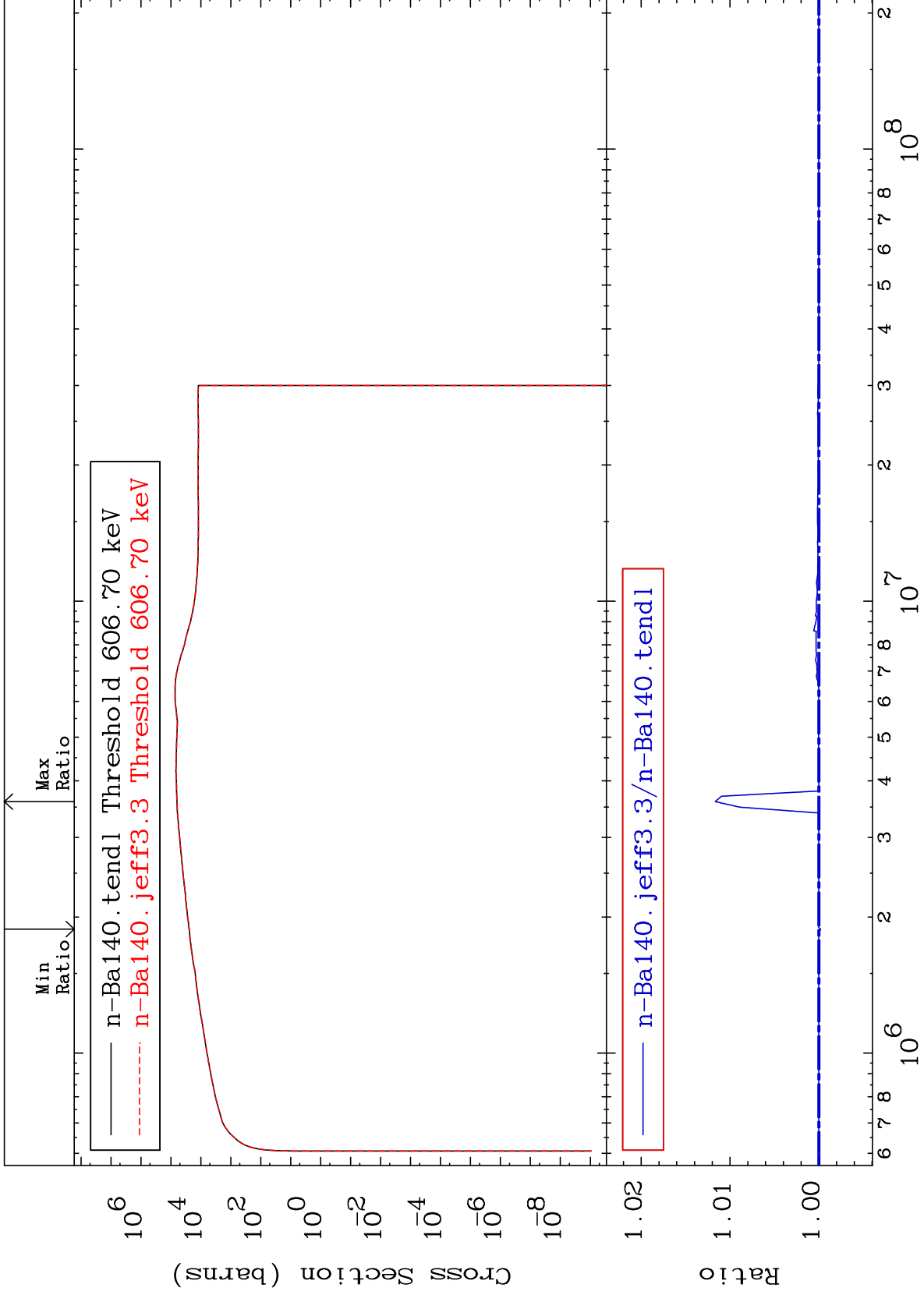
Incident Energy (eV)

56-Ba-140

MAT 5655

Dpa inelastic (mt51-91)
Cross Section

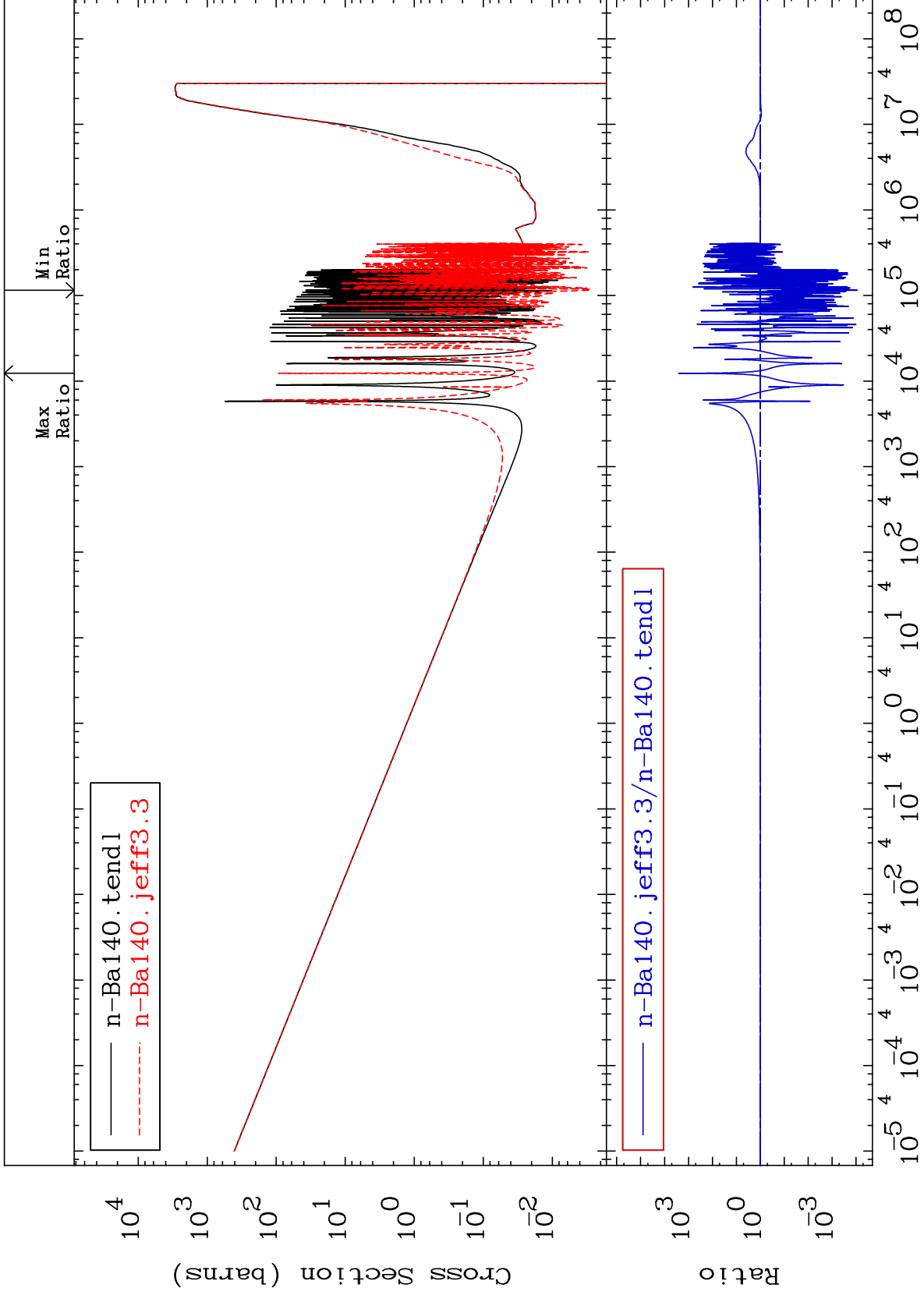
56-Ba-140
-0.020 To 1.167 %



MAT 5655

Dpa disappearance (mt102 -120)
Cross Section

56-Ba-140
-99.99 To 9999. %

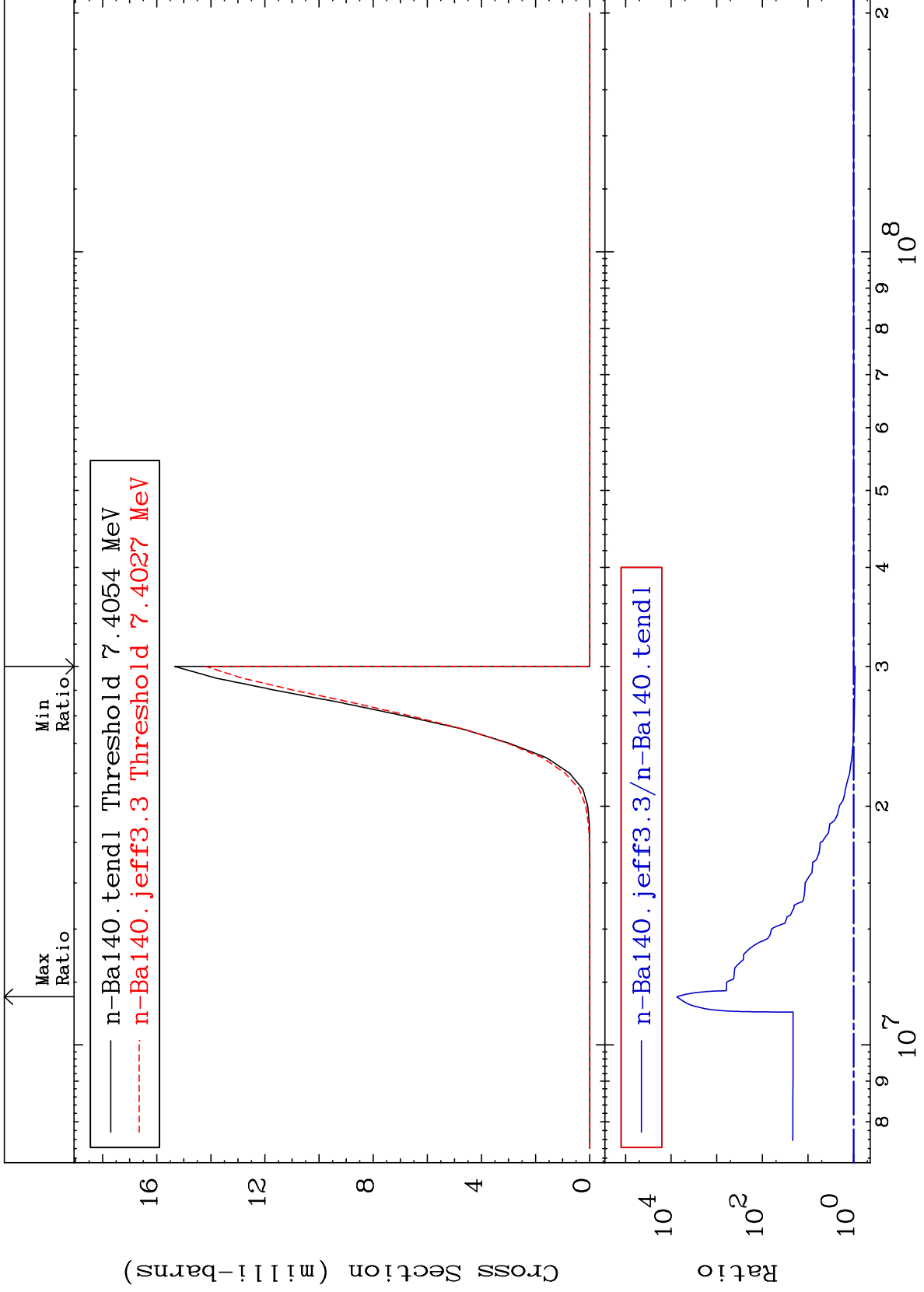


MAT 5655

(n,2n) α :54-Xe-135g

56-Ba-140

Radionuclide Production Cross Section -7.550 To 9999. %



74

Incident Energy (eV)

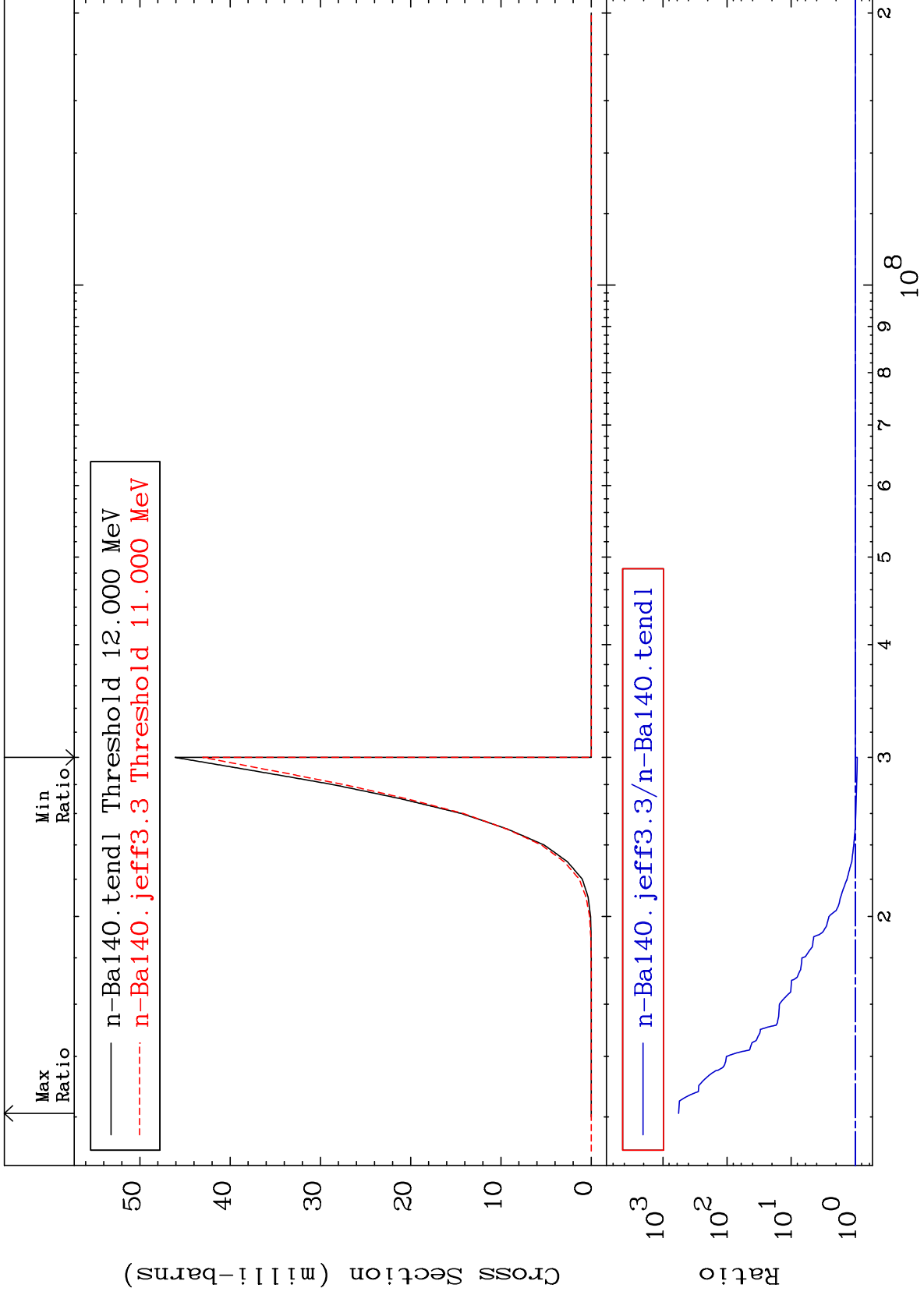
56-Ba-140

MAT 5655

(n,2n) α :54-Xe-135m2

56-Ba-140

Radionuclide Production Cross Section -6.663 To 9999. %

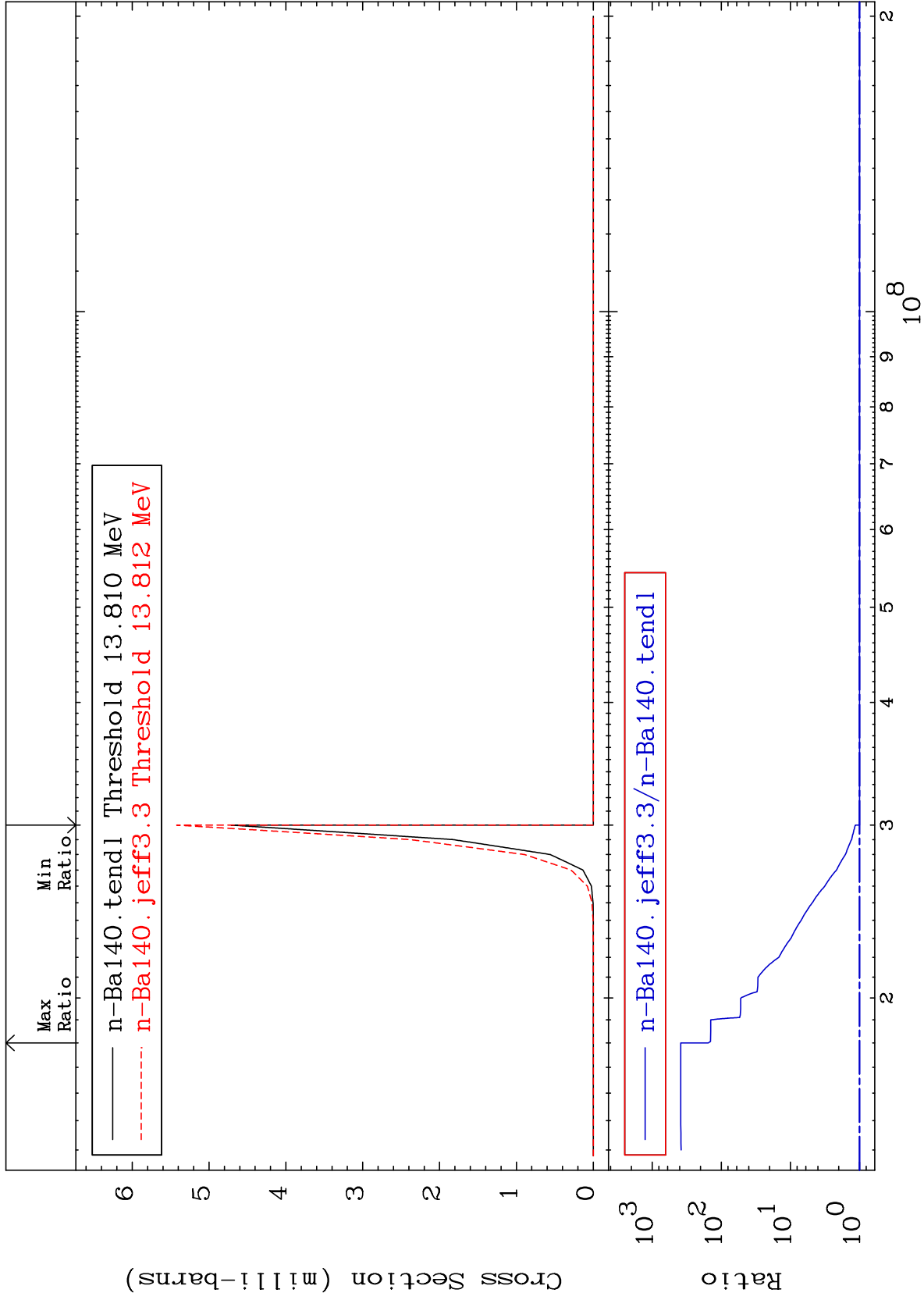


MAT 5655

(n,3n) α :54-Xe-134g

56-Ba-140

Radionuclide Production Cross Section 0.000 To 9999. %

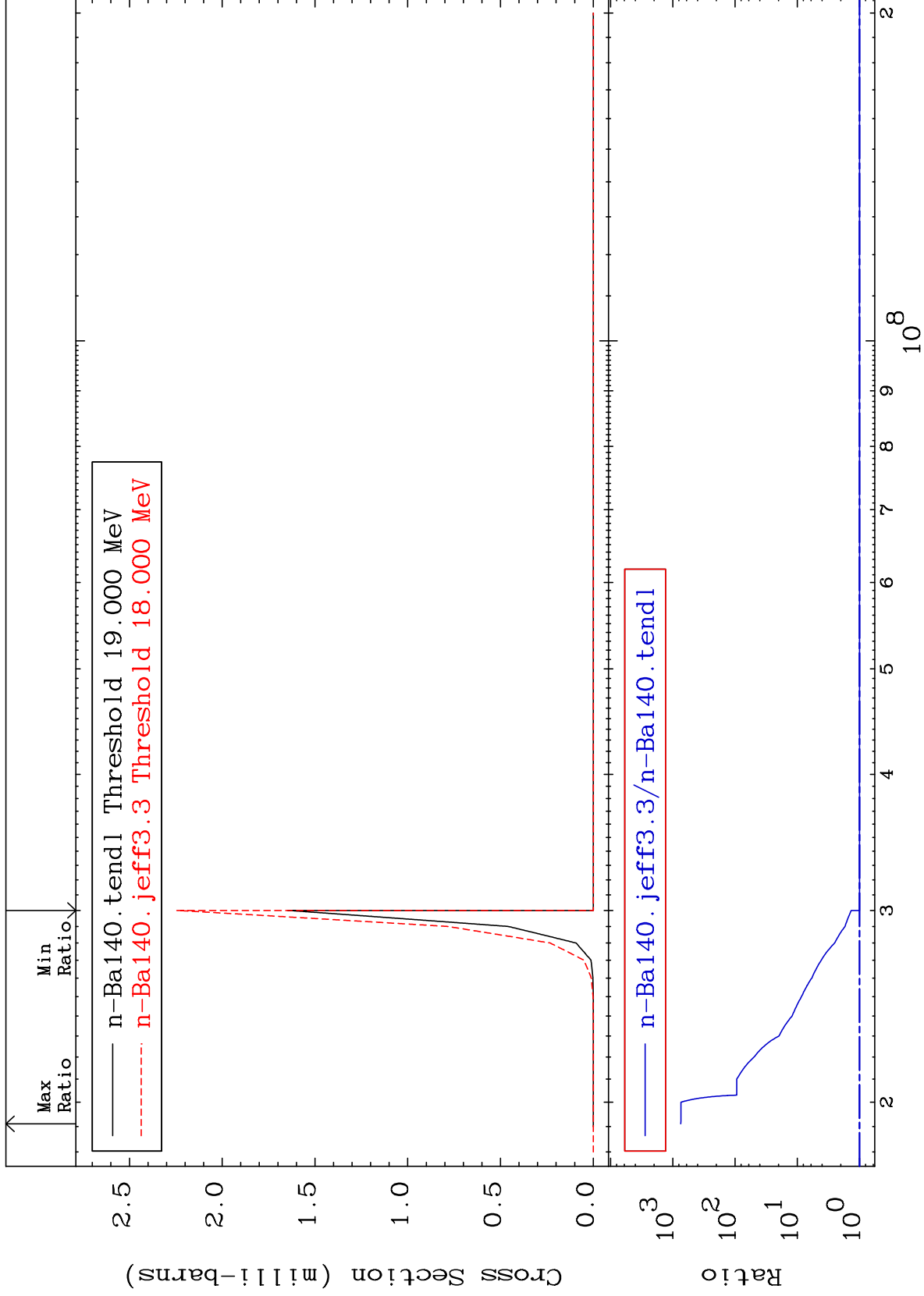


MAT 5655

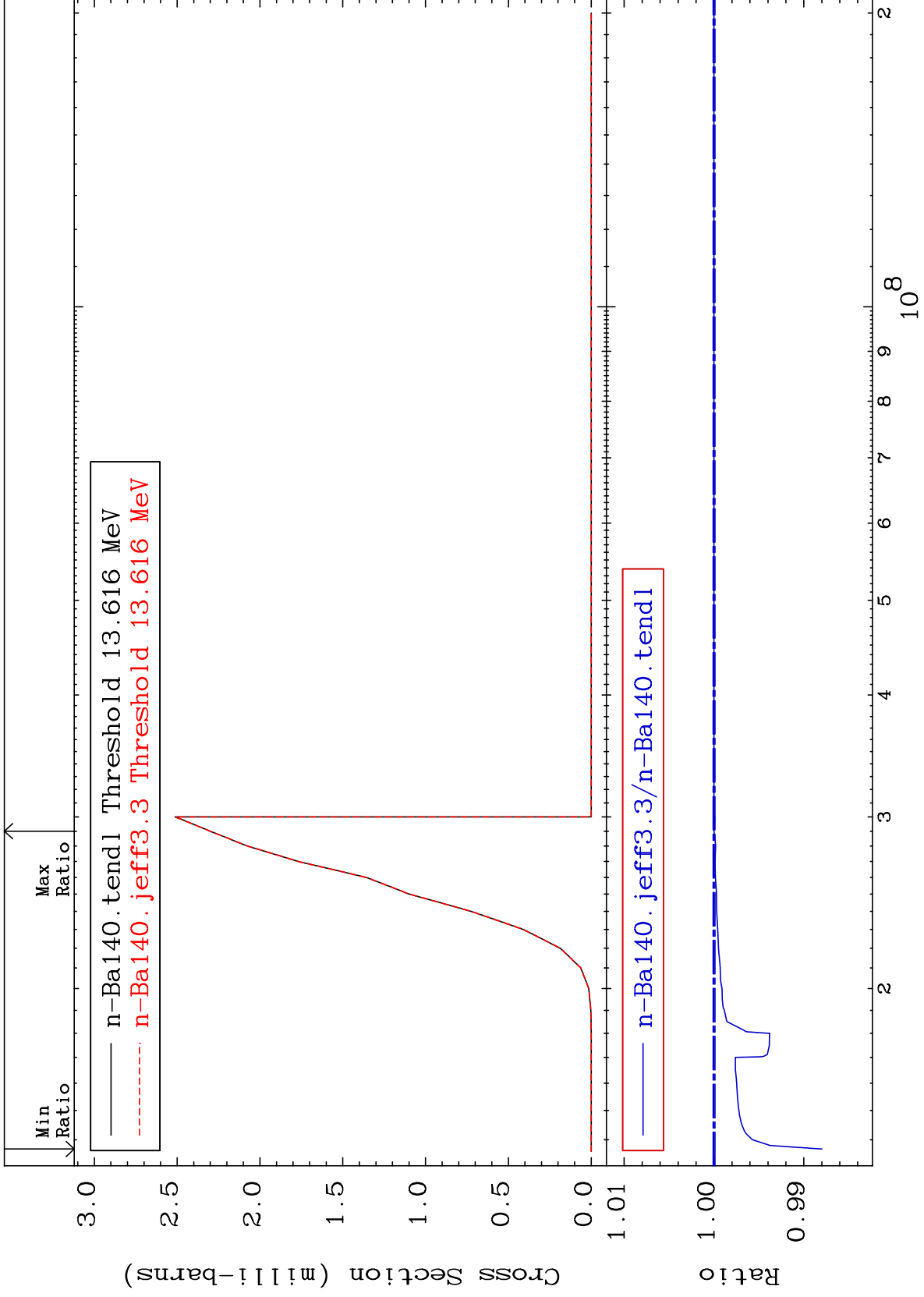
(n,3n) α :54-Xe-134m7

56-Ba-140

Radionuclide Production Cross Section 0.000 To 9999. %



Radionuclide Production Cross Section -1.201 To 0.000 %

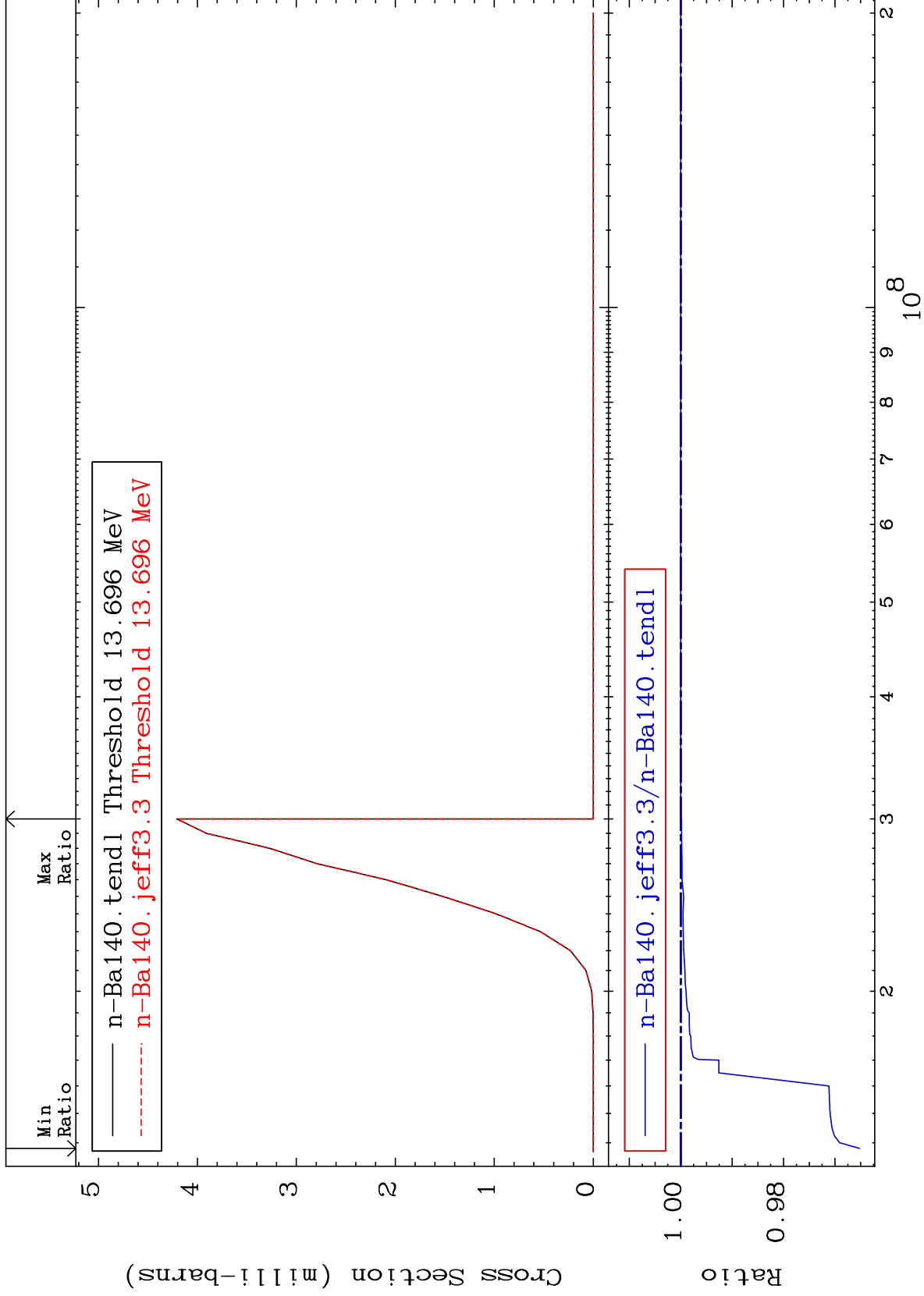


MAT 5655

(n, n') d:55-Cs-138m3

56-Ba-140

Radionuclide Production Cross Section -3.478 To 0.000 %



79

Incident Energy (eV)

56-Ba-140

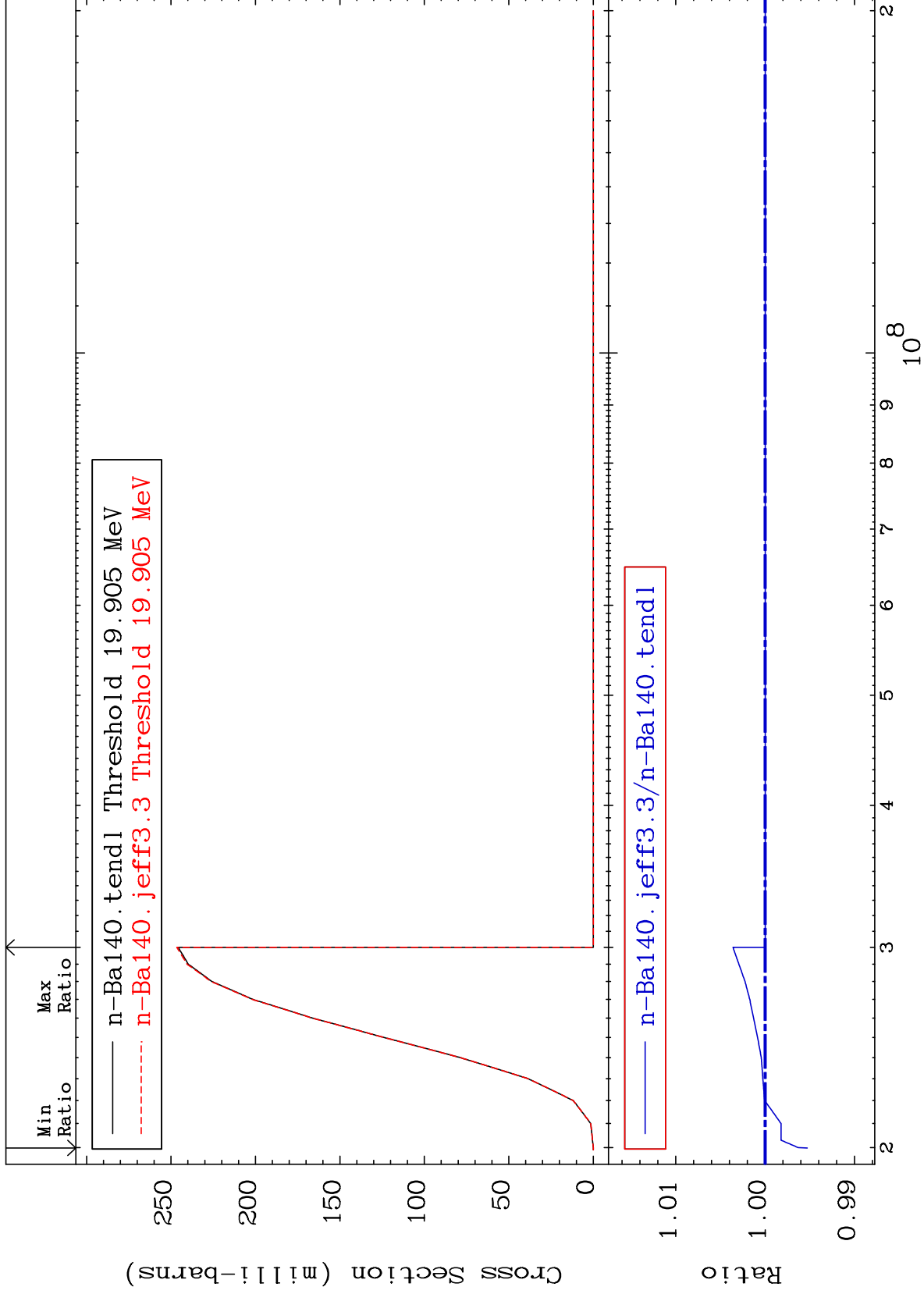
MAT 5655

(n, 4n) : 56-Ba-137g

56-Ba-140

Radionuclide Production Cross Section

-0.472 To 0.360 %



80

Incident Energy (eV)

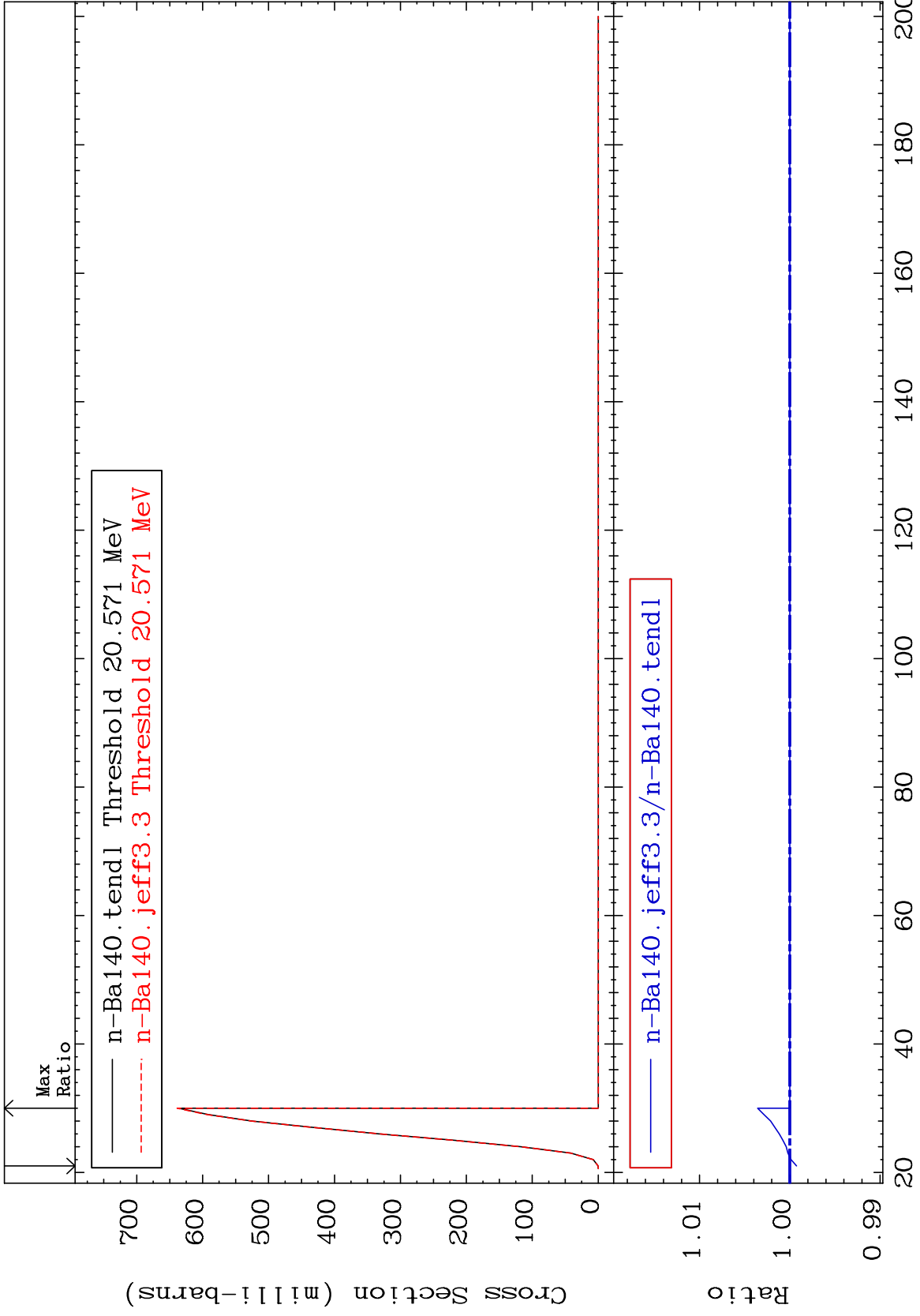
56-Ba-140

MAT 5655

(n, 4n) : 56-Ba-137m2

56-Ba-140

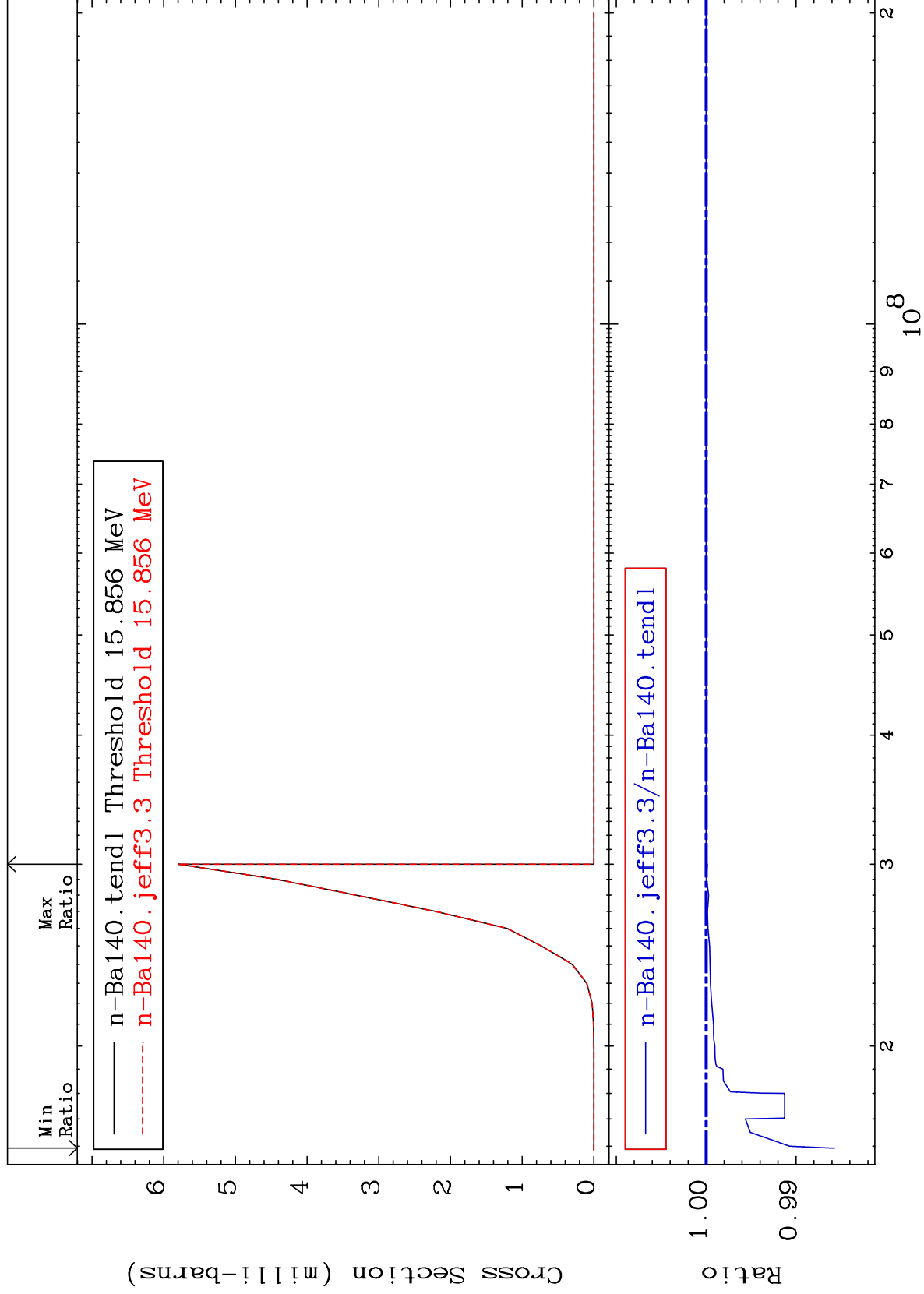
Radionuclide Production Cross Section -0.074 To 0.356 %



MAT 5655

(n,2n) p:55-Cs-138g 56-Ba-140

Radionuclide Production Cross Section -1.430 To 0.000 %



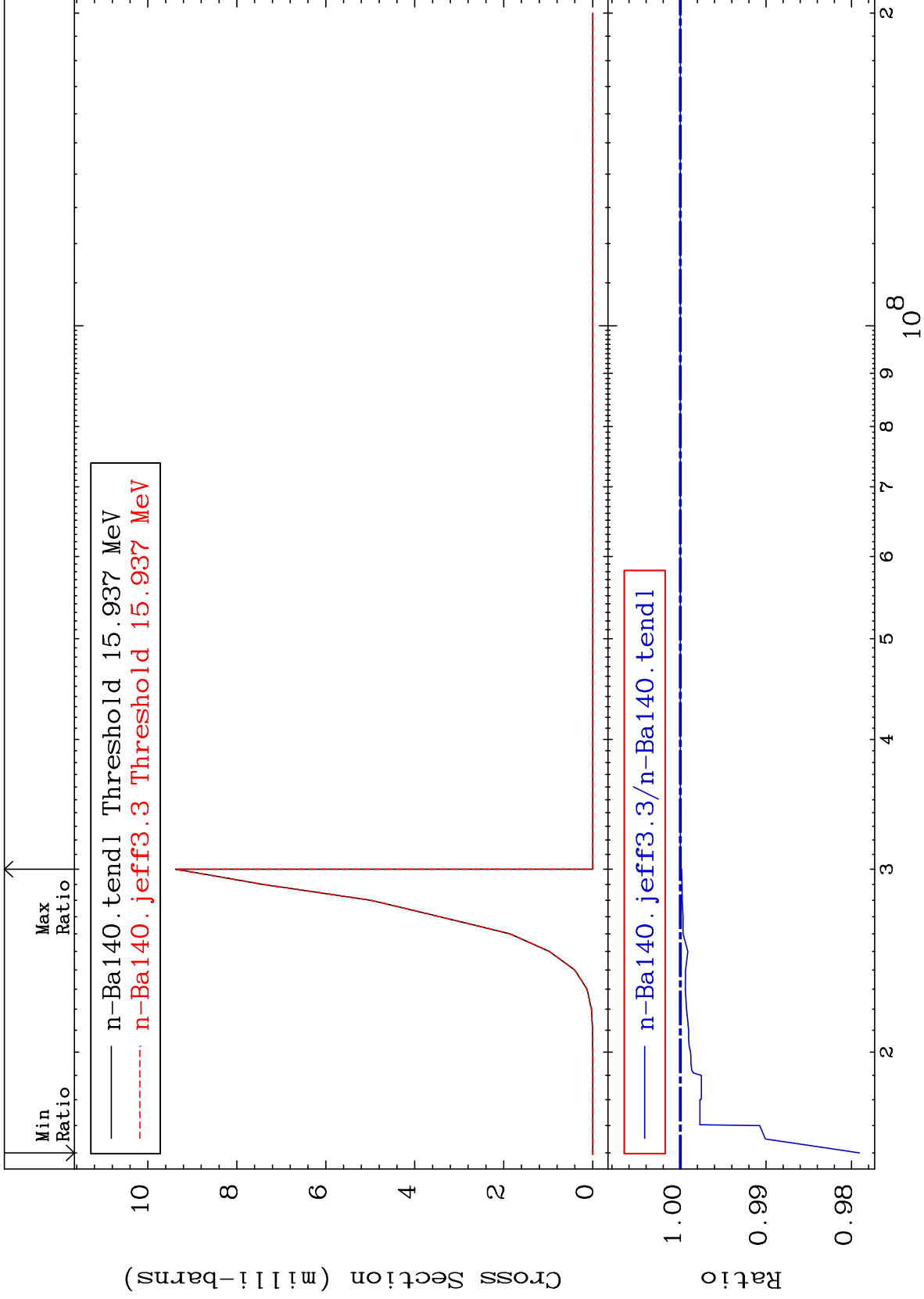
MAT 5655

(n,2n) p:55-Cs-138m3

56-Ba-140

Radionuclide Production Cross Section

-2.092 To 0.000 %

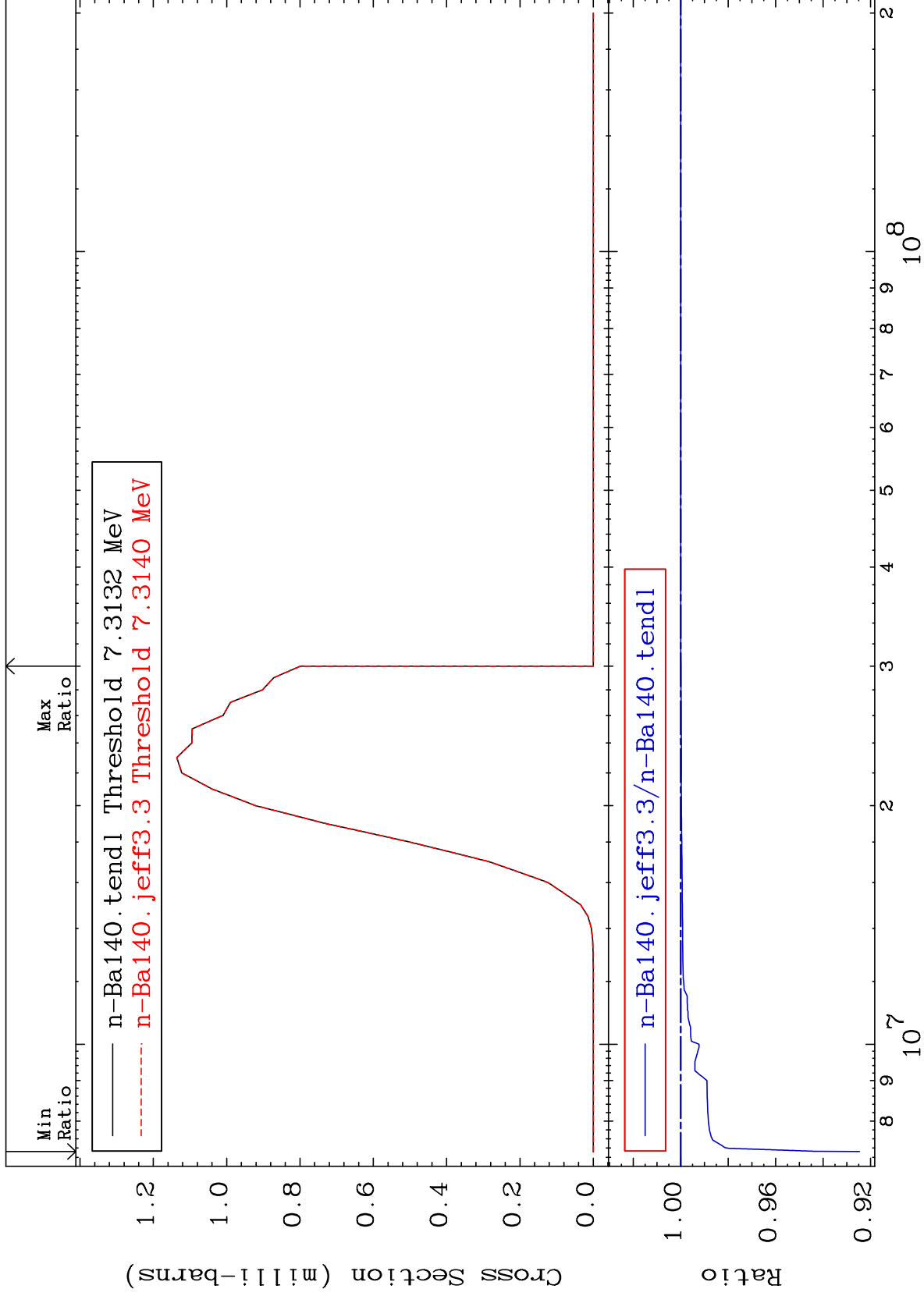


MAT 5655

(n, t) : 55-Cs-138g

56-Ba-140

Radionuclide Production Cross Section -7.531 To 0.000 %



84

Incident Energy (eV)

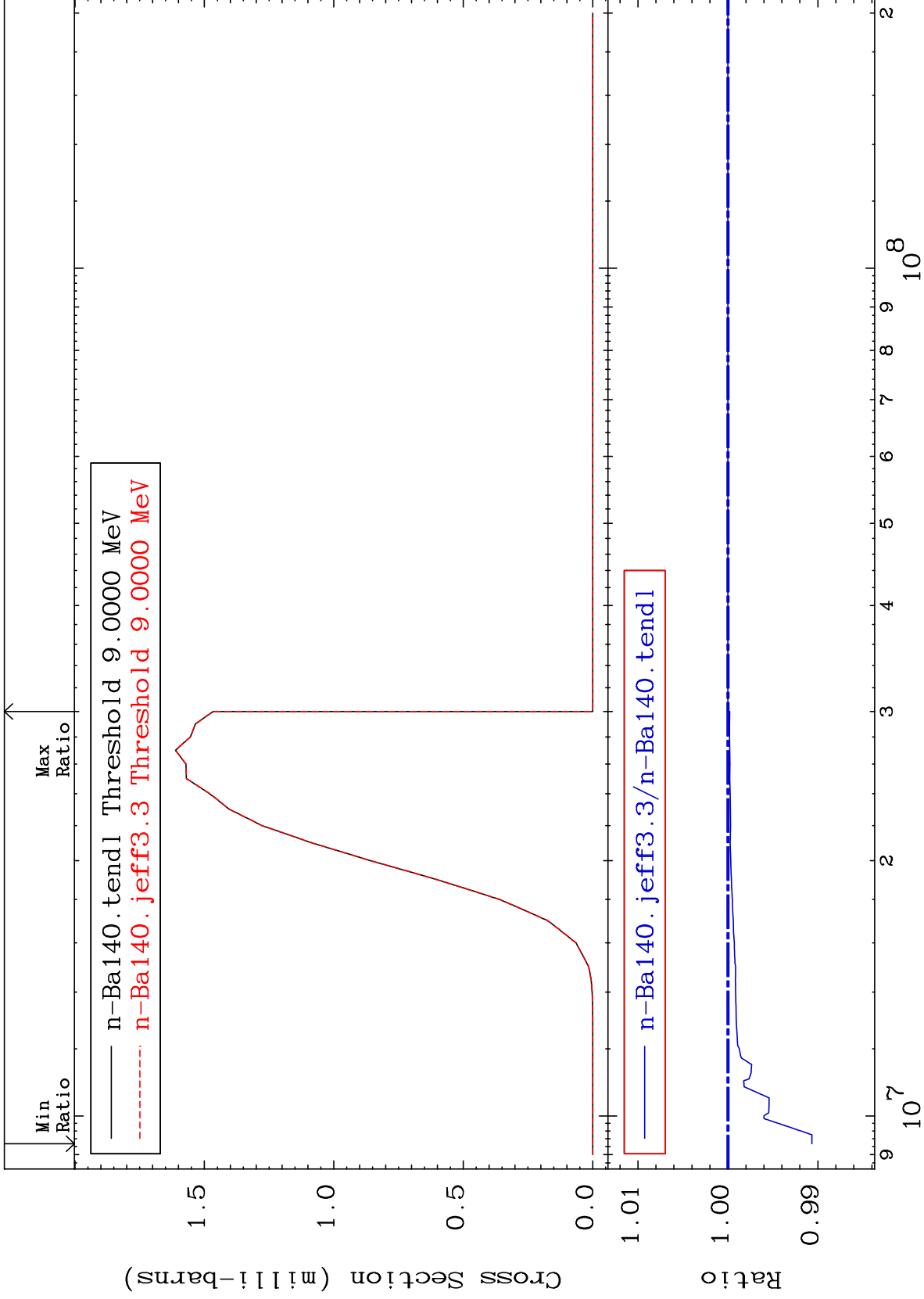
56-Ba-140

MAT 5655

(n, t) : 55-Cs-138m3

56-Ba-140

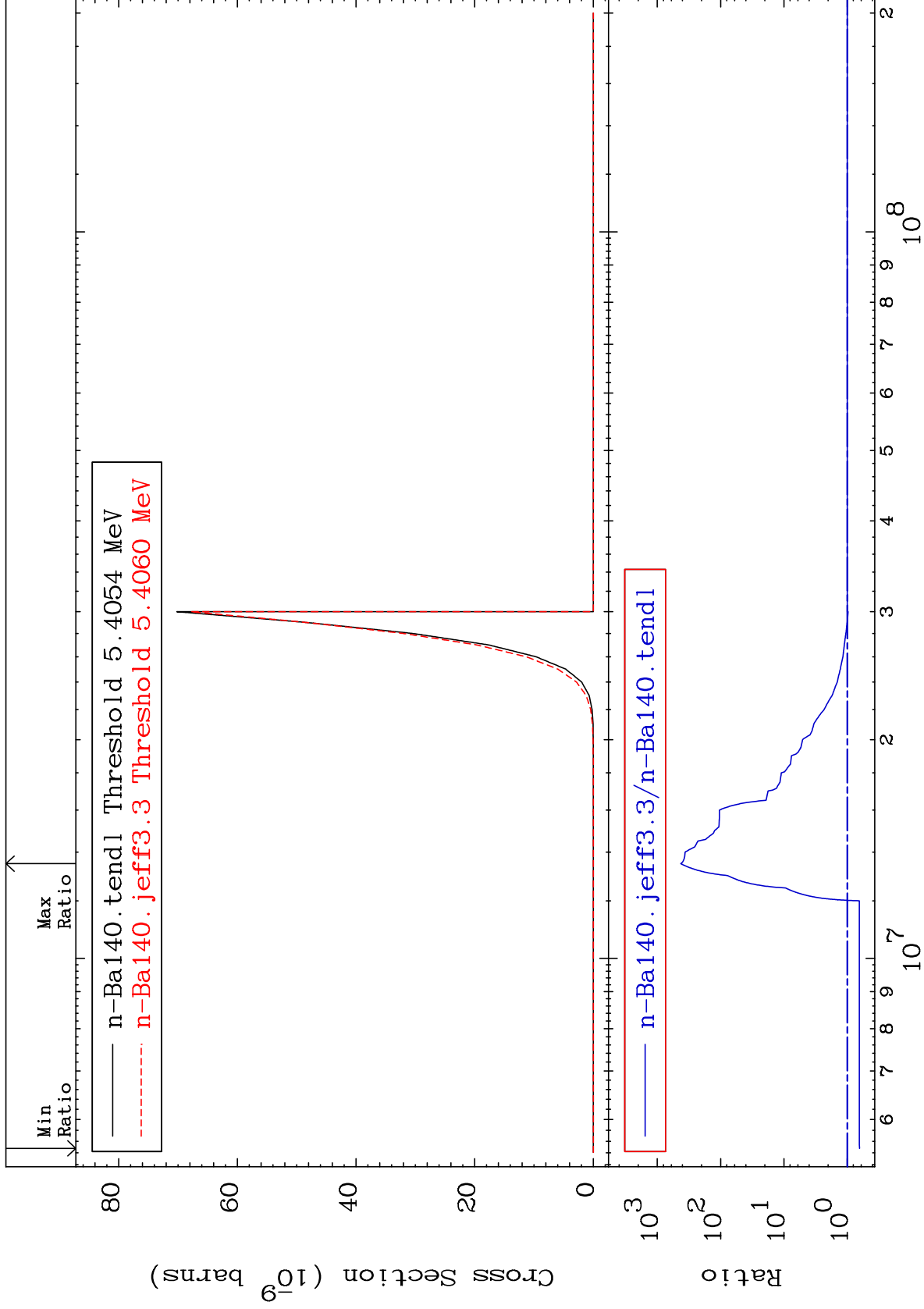
Radionuclide Production Cross Section -0.933 To 0.000 %



85

Incident Energy (eV)

56-Ba-140



MAT 5655

(n,p) α :53-I -136m6

56-Ba-140

Radionuclide Production Cross Section -3.915 To 9999. %

