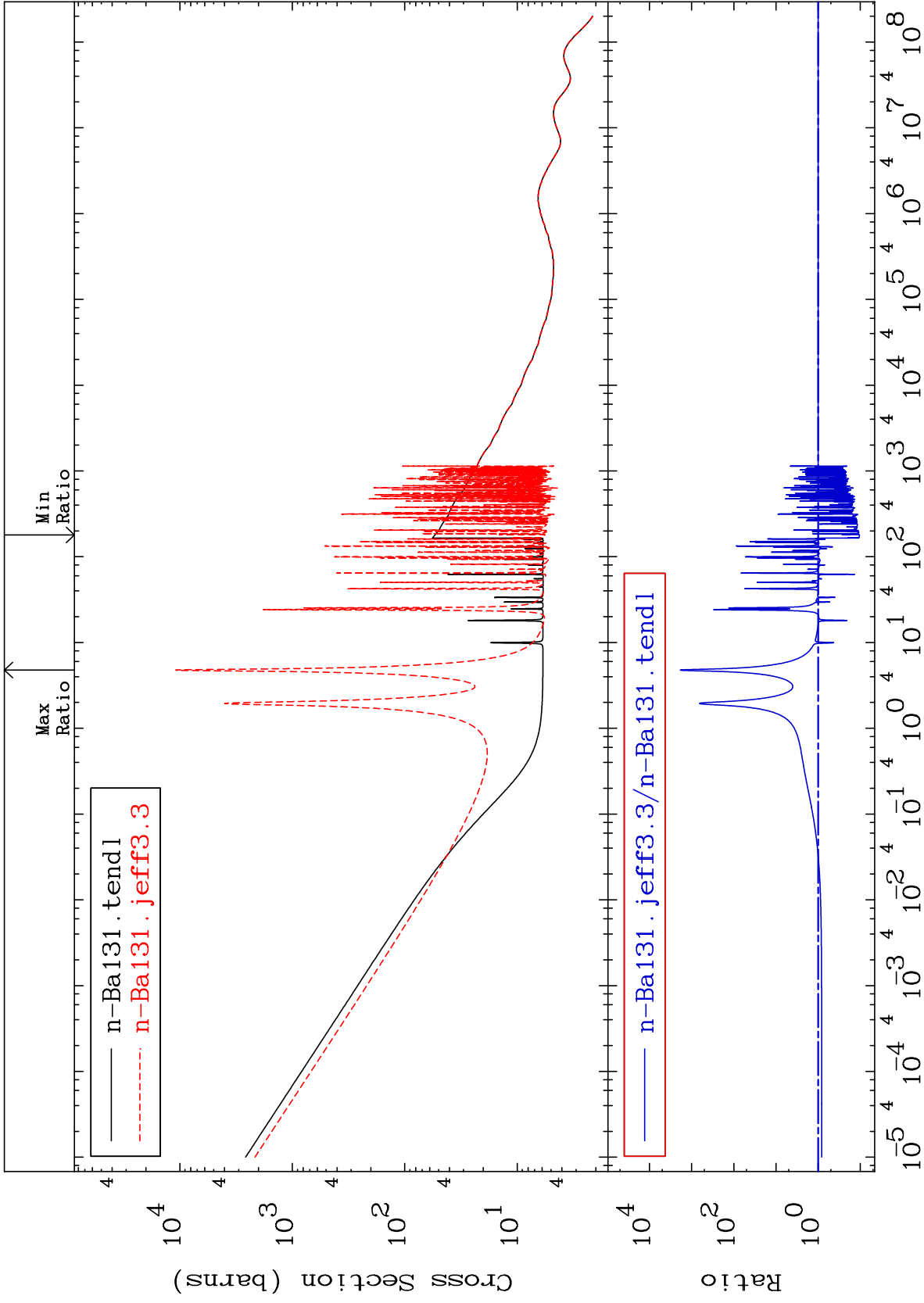


MAT 5628

Total
Cross Section

56-Ba-131
-89.50 To 9999. %

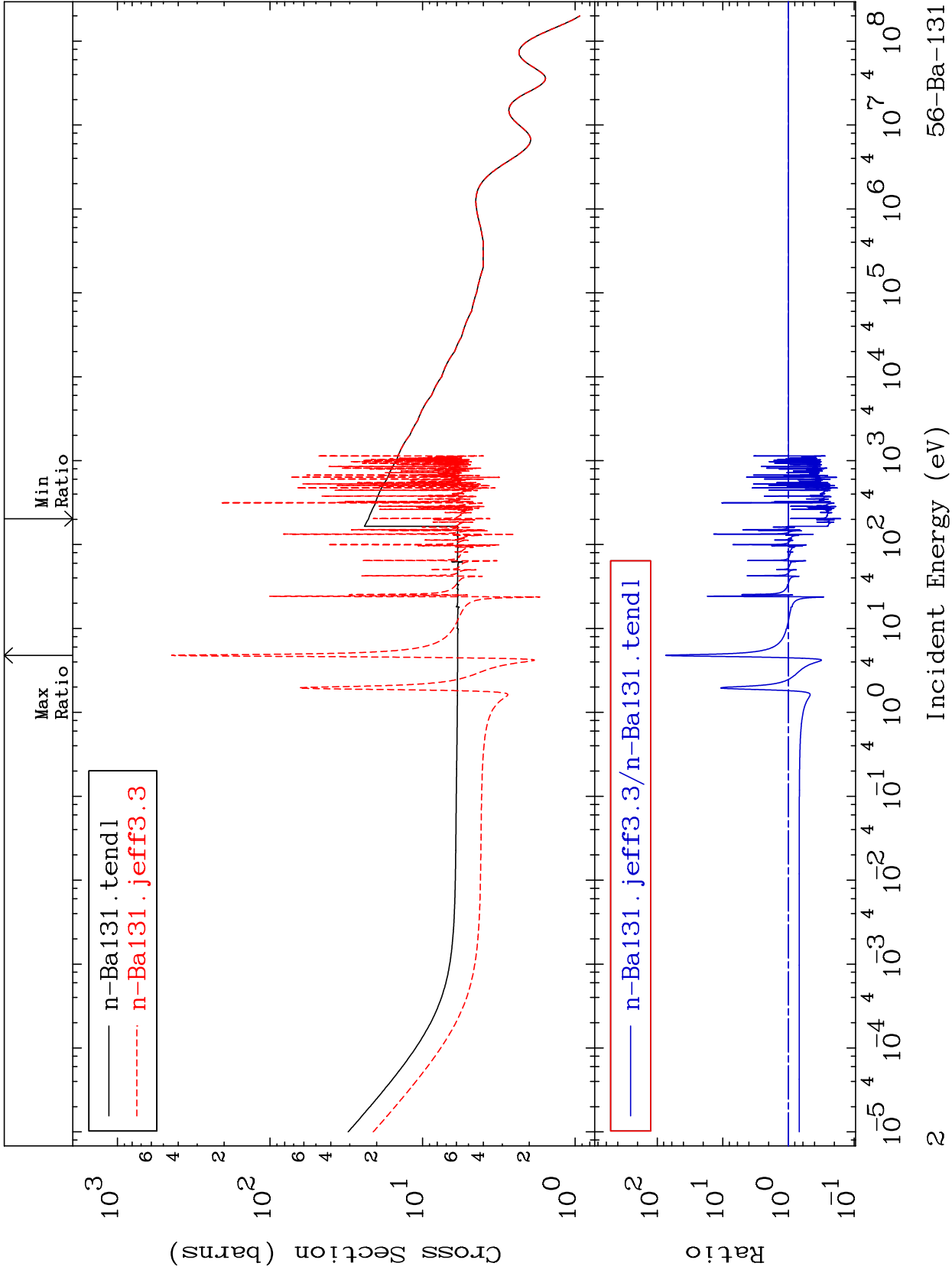


Incident Energy (eV)

56-Ba-131

MAT 5628

Elastic Cross Section
56-Ba-131
-83.99 To 7389. %



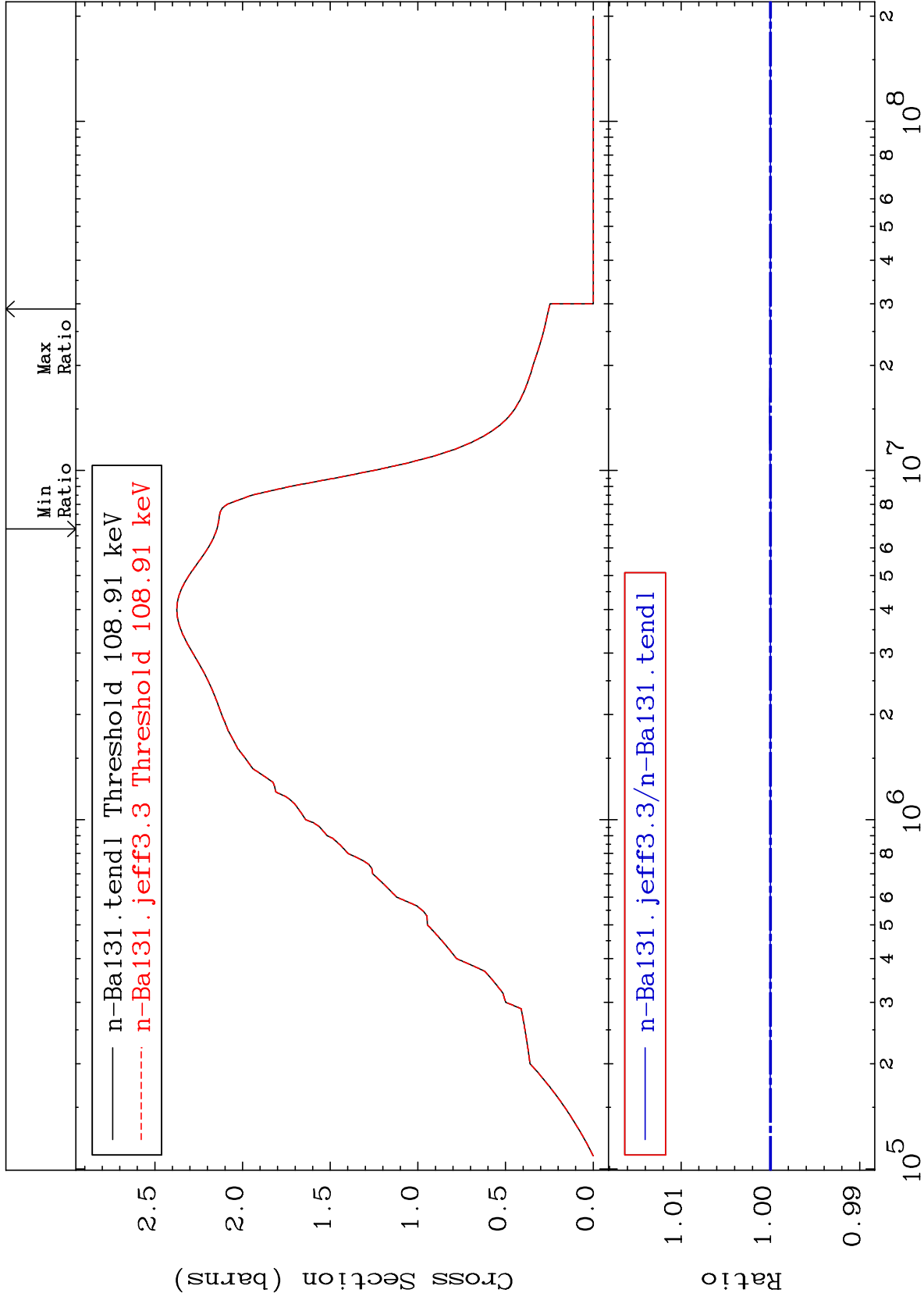
56-Ba-131

MAT 5628

56-Ba-131

Inelastic
Cross Section

-0.004 To 0.010 %



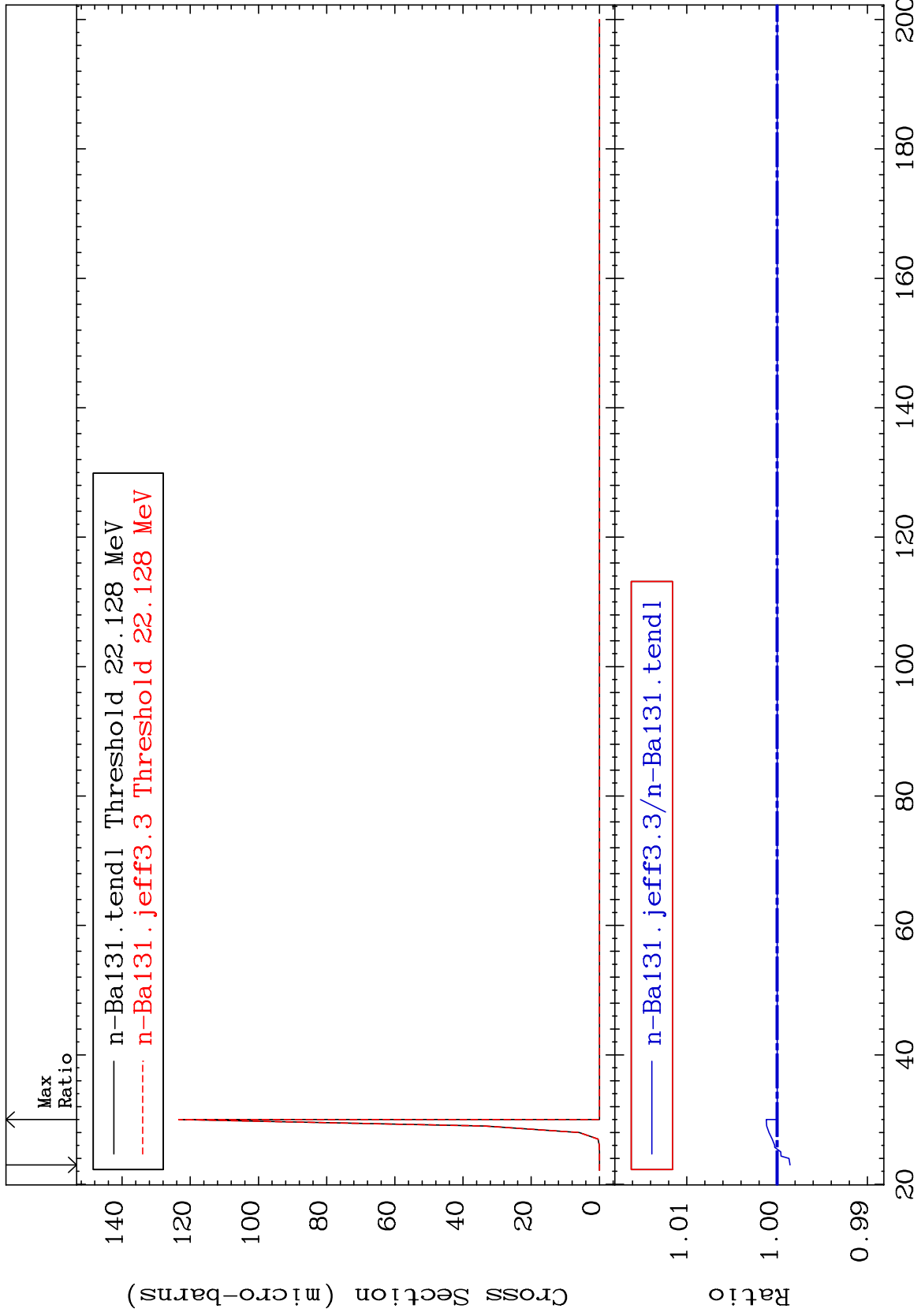
Incident Energy (eV)

56-Ba-131

MAT 5628

(n,2n) d
Cross Section

56-Ba-131
-0.143 To 0.119 %



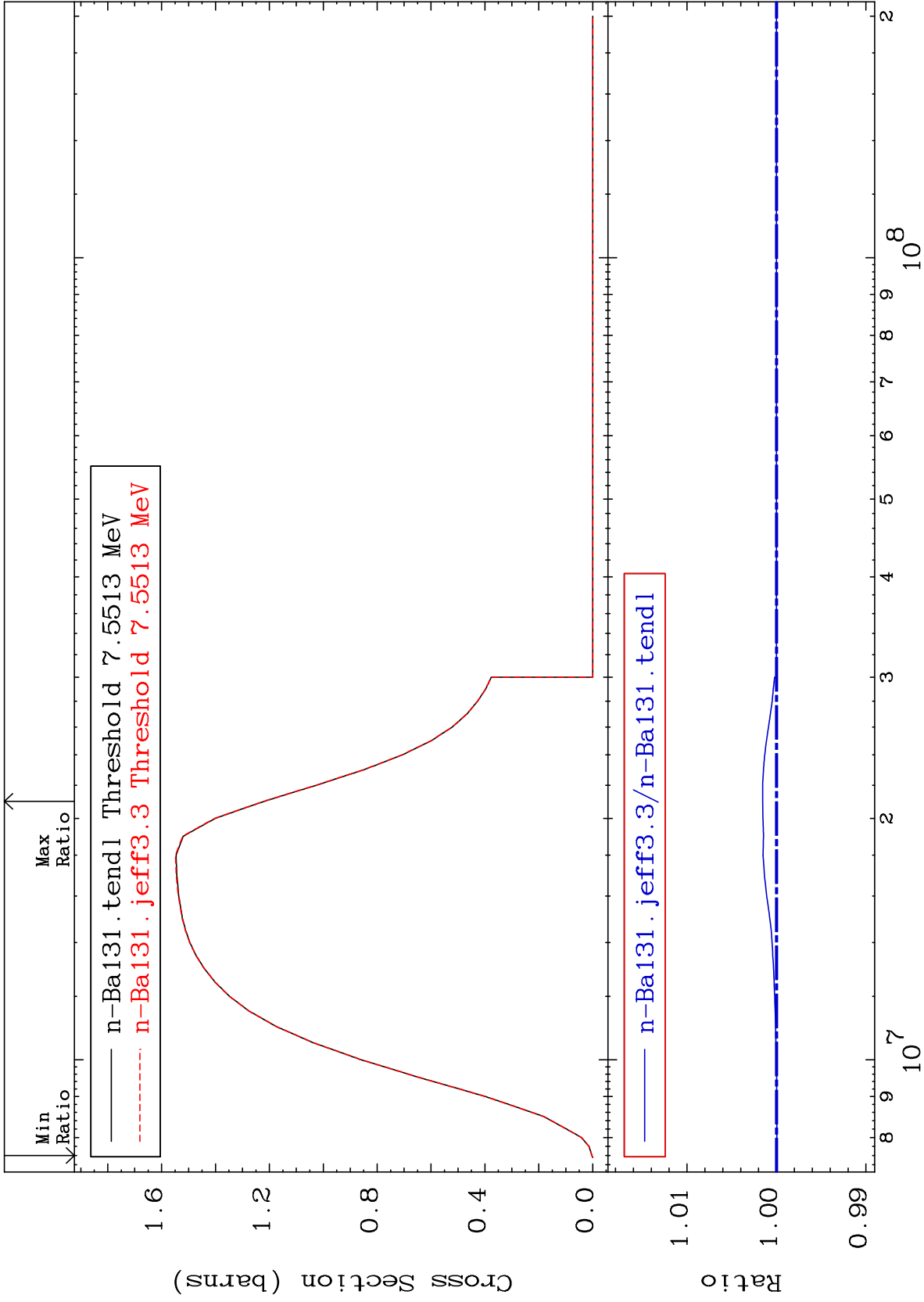
MAT 5628

(n,2n)

56-Ba-131

Cross Section

-0.007 To 0.155 %



5

Incident Energy (eV)

56-Ba-131

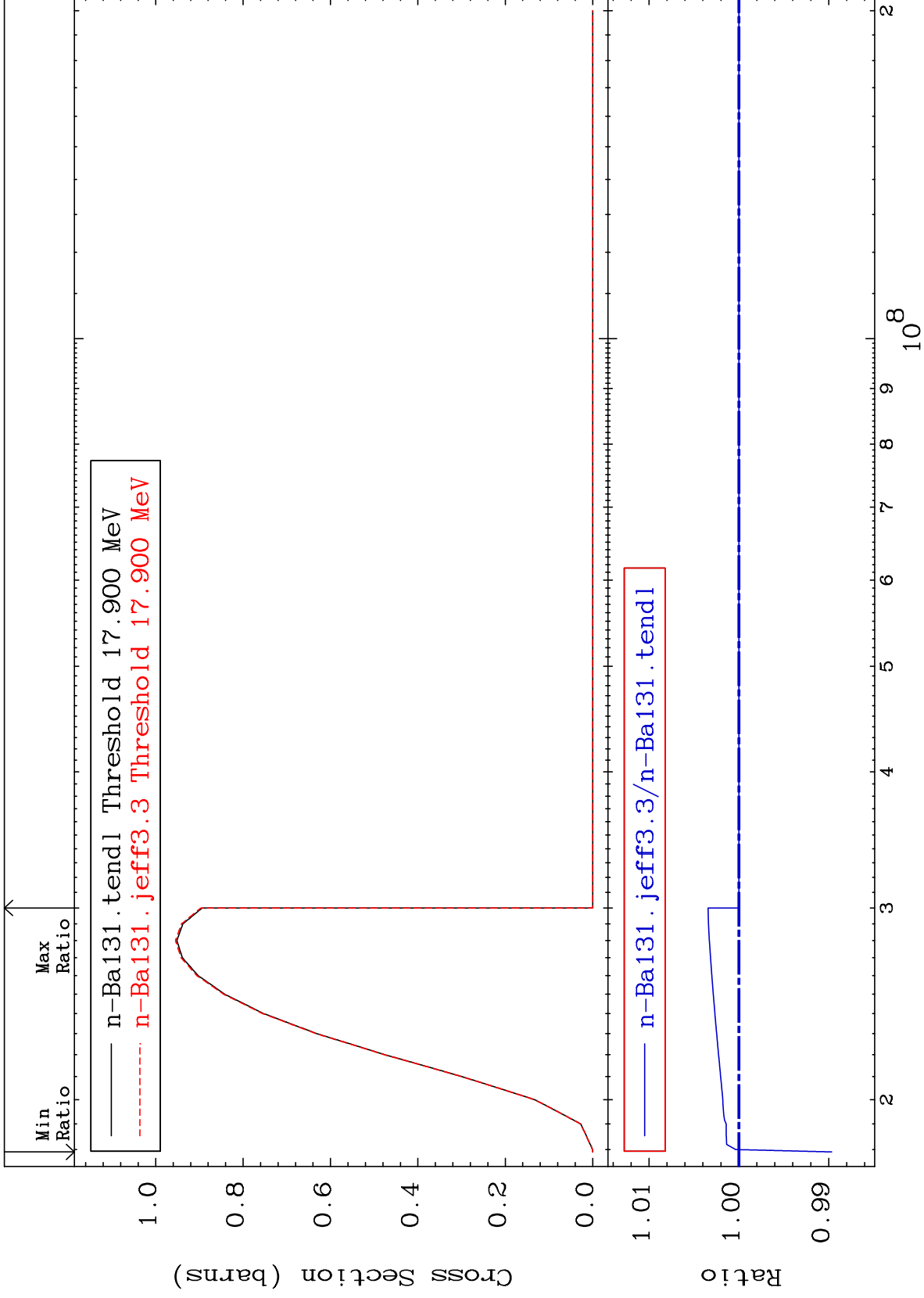
MAT 5628

(n,3n)

56-Ba-131

Cross Section

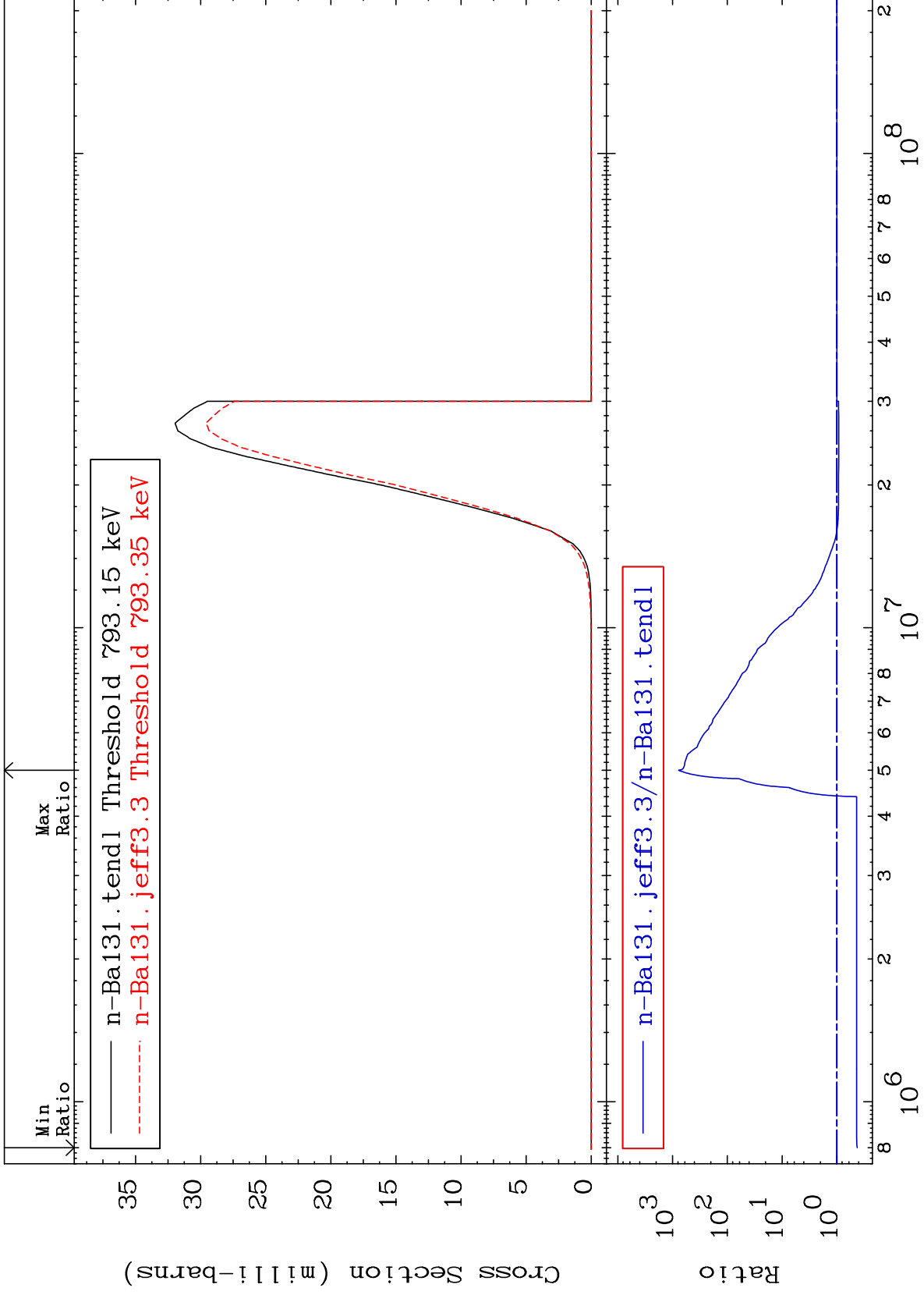
-1.033 To 0.342 %



MAT 5628

(n, n') α
Cross Section

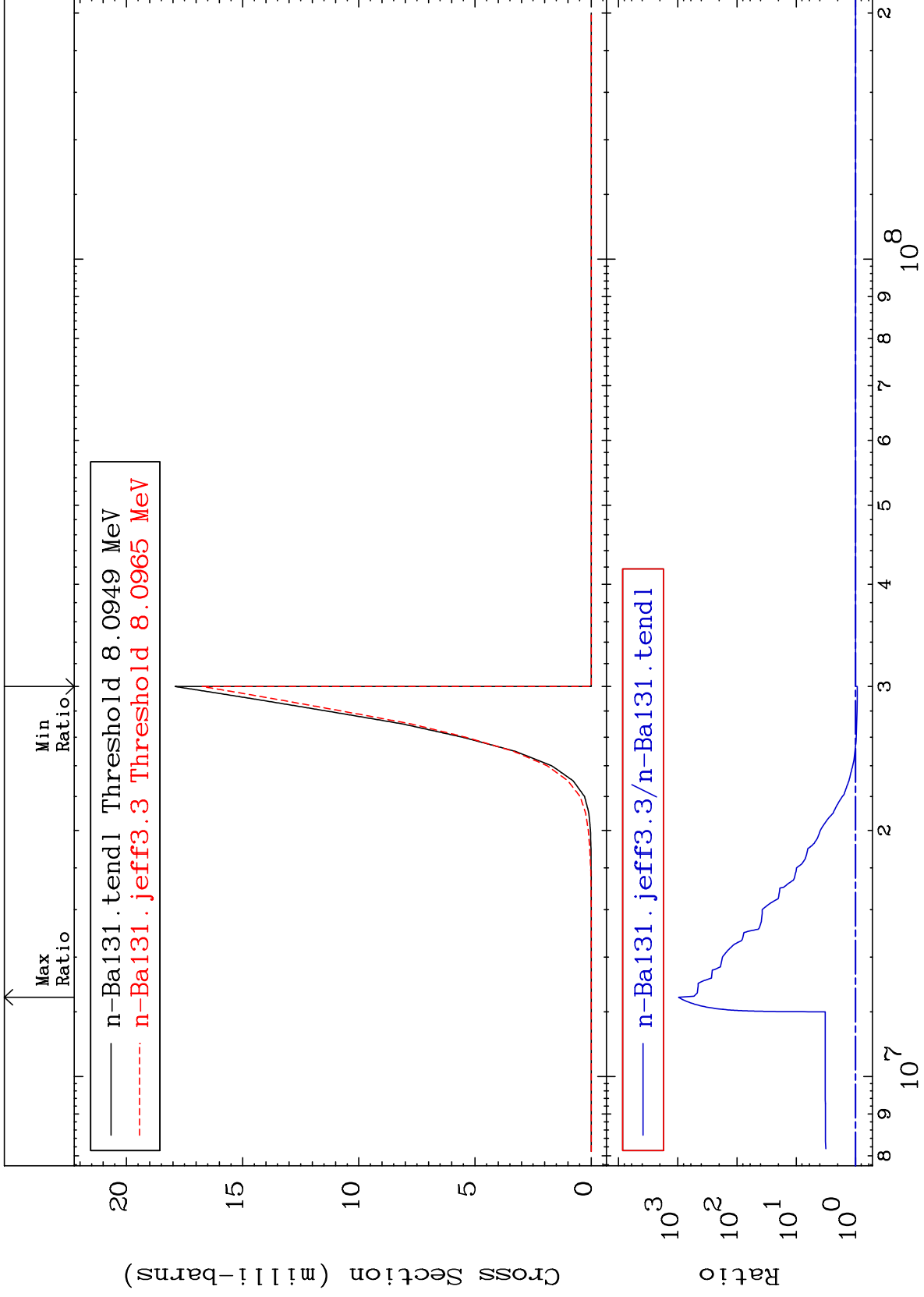
56-Ba-131
-57.58 To 9999. %



MAT 5628

(n,2n) α
Cross Section

56-Ba-131
-6.520 To 9999. %



8

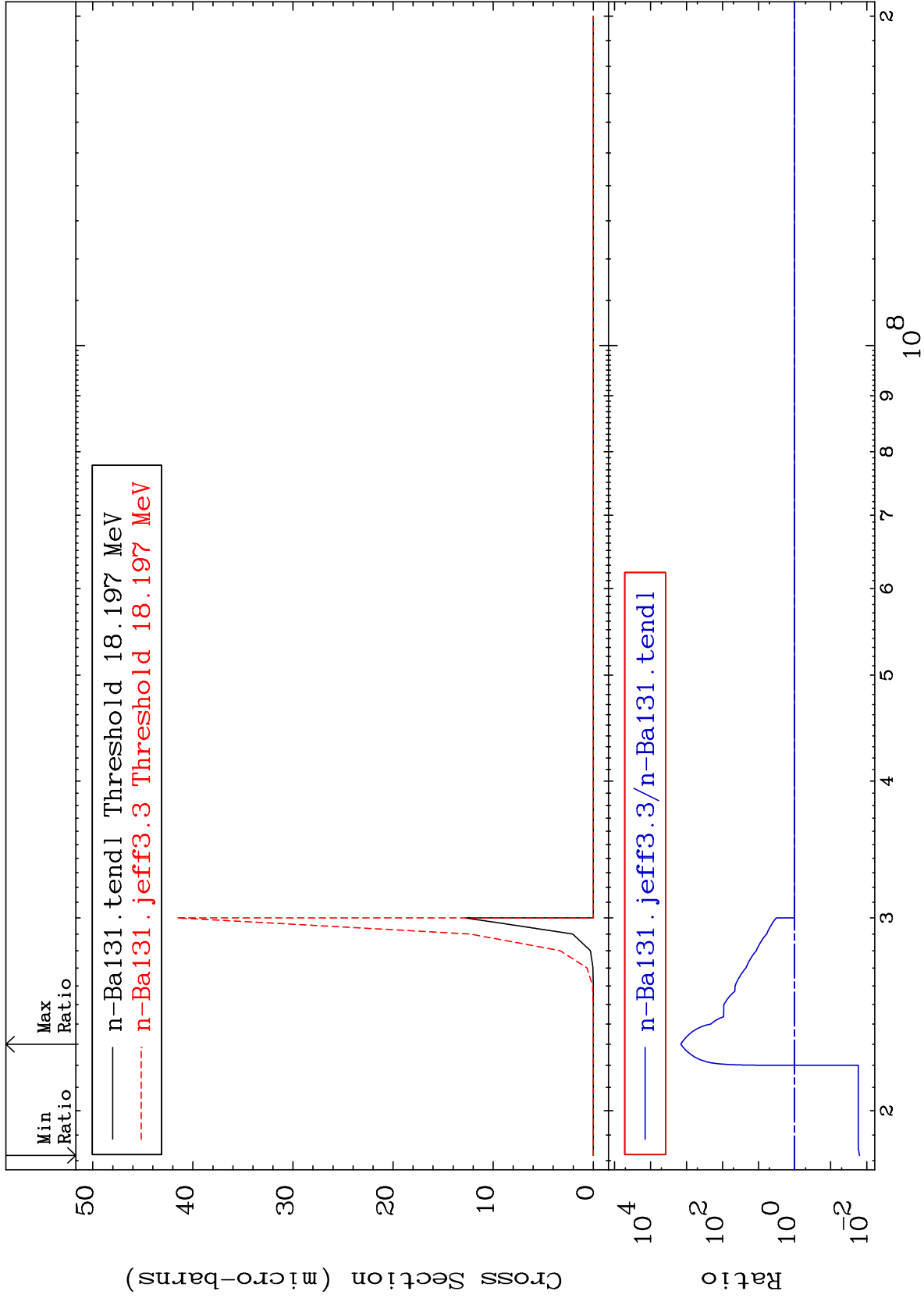
Incident Energy (eV)

56-Ba-131

MAT 5628

(n,3n) α
Cross Section

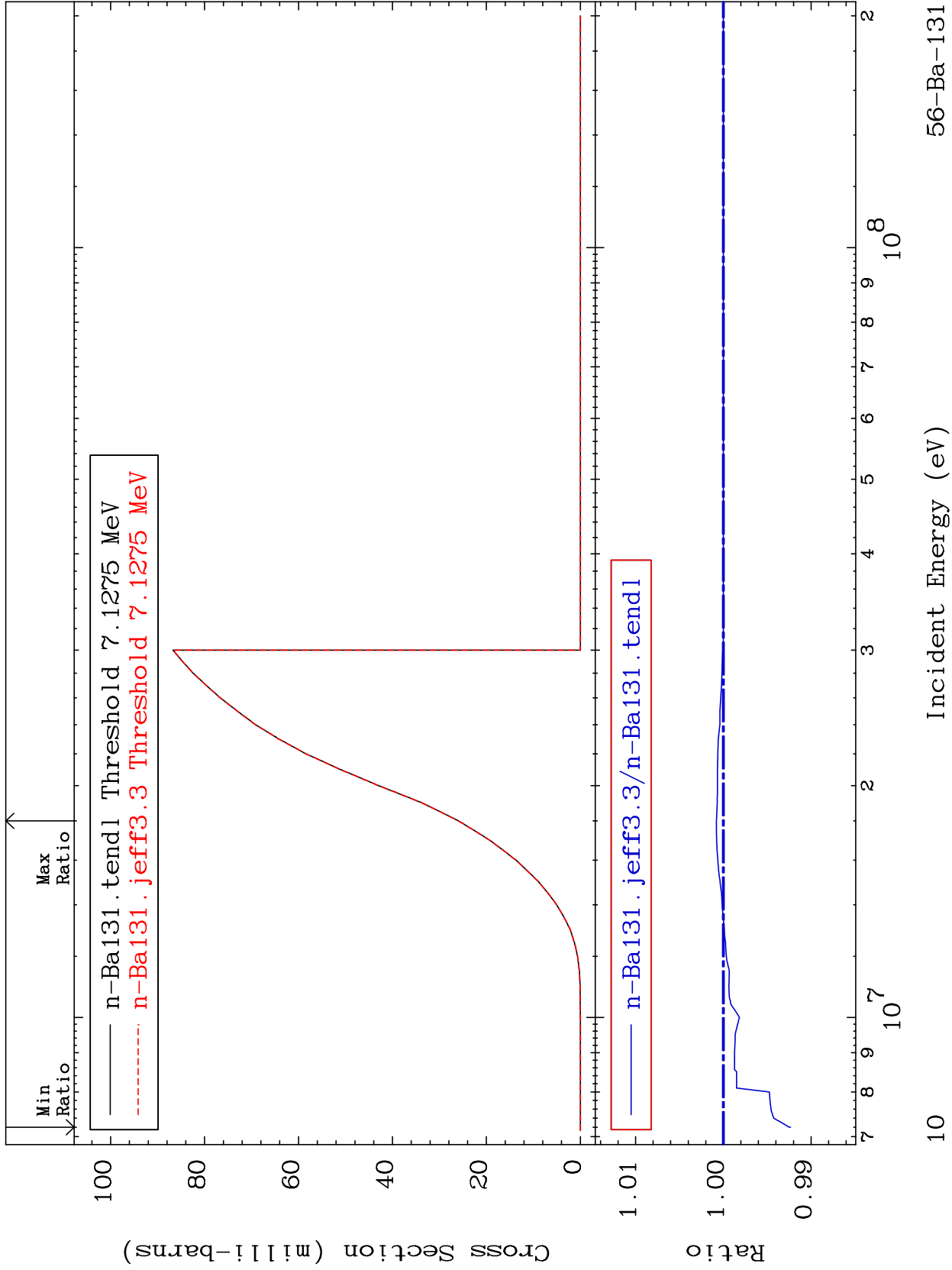
56-Ba-131
-98.42 To 9999. %



MAT 5628

(n,n') p
Cross Section

56-Ba-131
-0.765 To 0.079 %



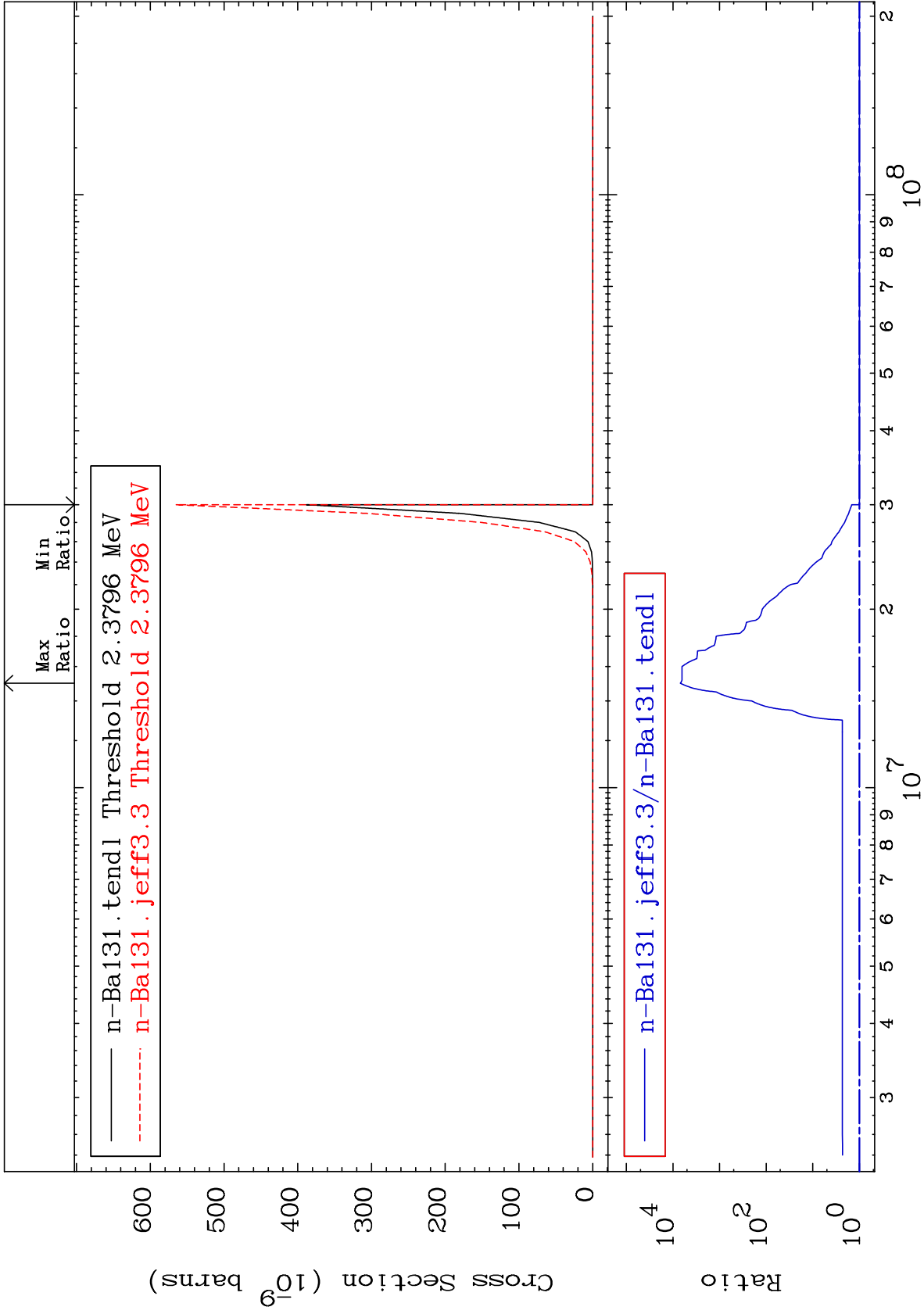
10

Incident Energy (eV)

56-Ba-131

MAT 5628

(n, n') 2α
Cross Section
56-Ba-131
To 9999. %



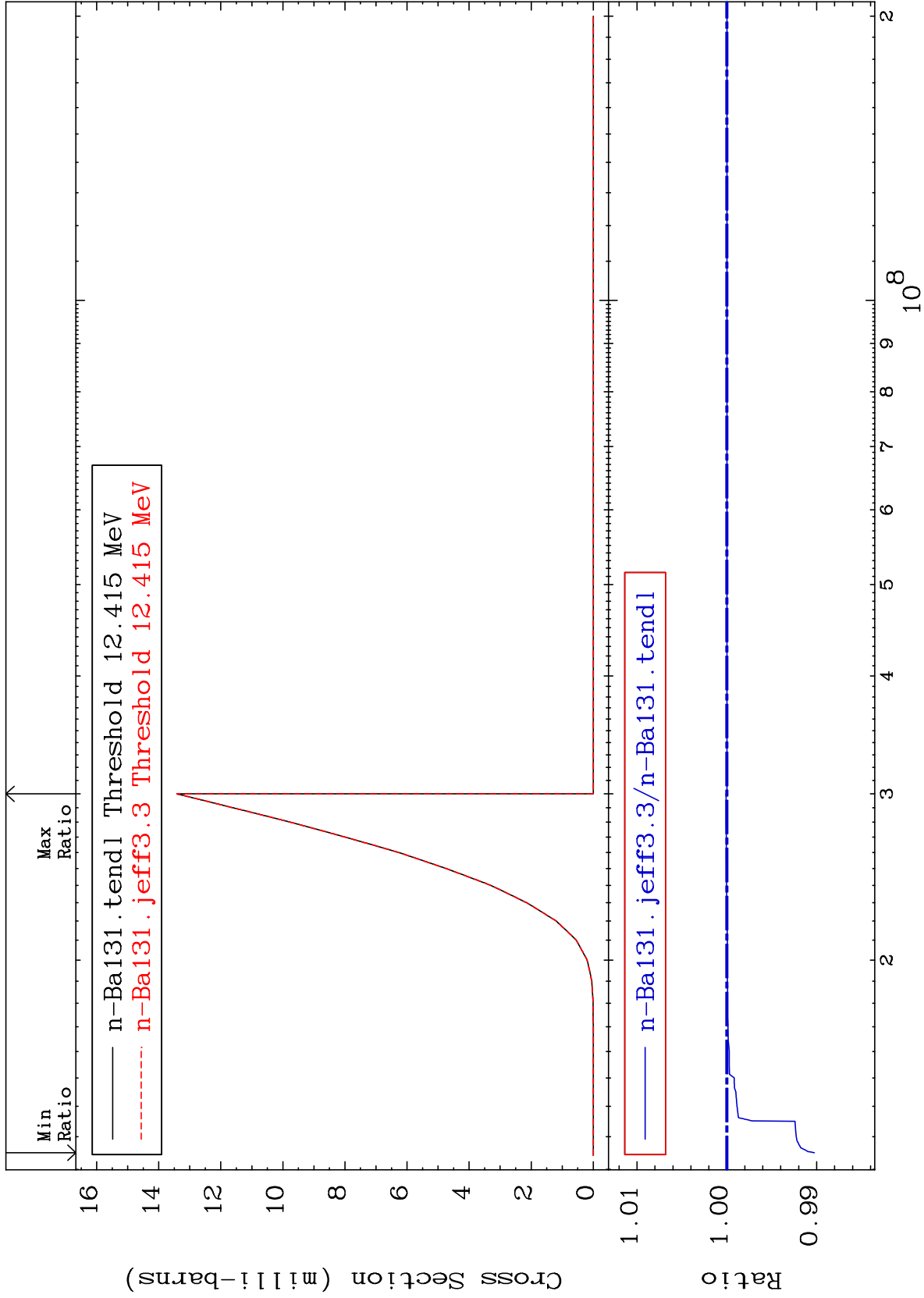
MAT 5628

(n,n') d

56-Ba-131

Cross Section

-0.973 To 0.009 %



12

Incident Energy (eV)

56-Ba-131

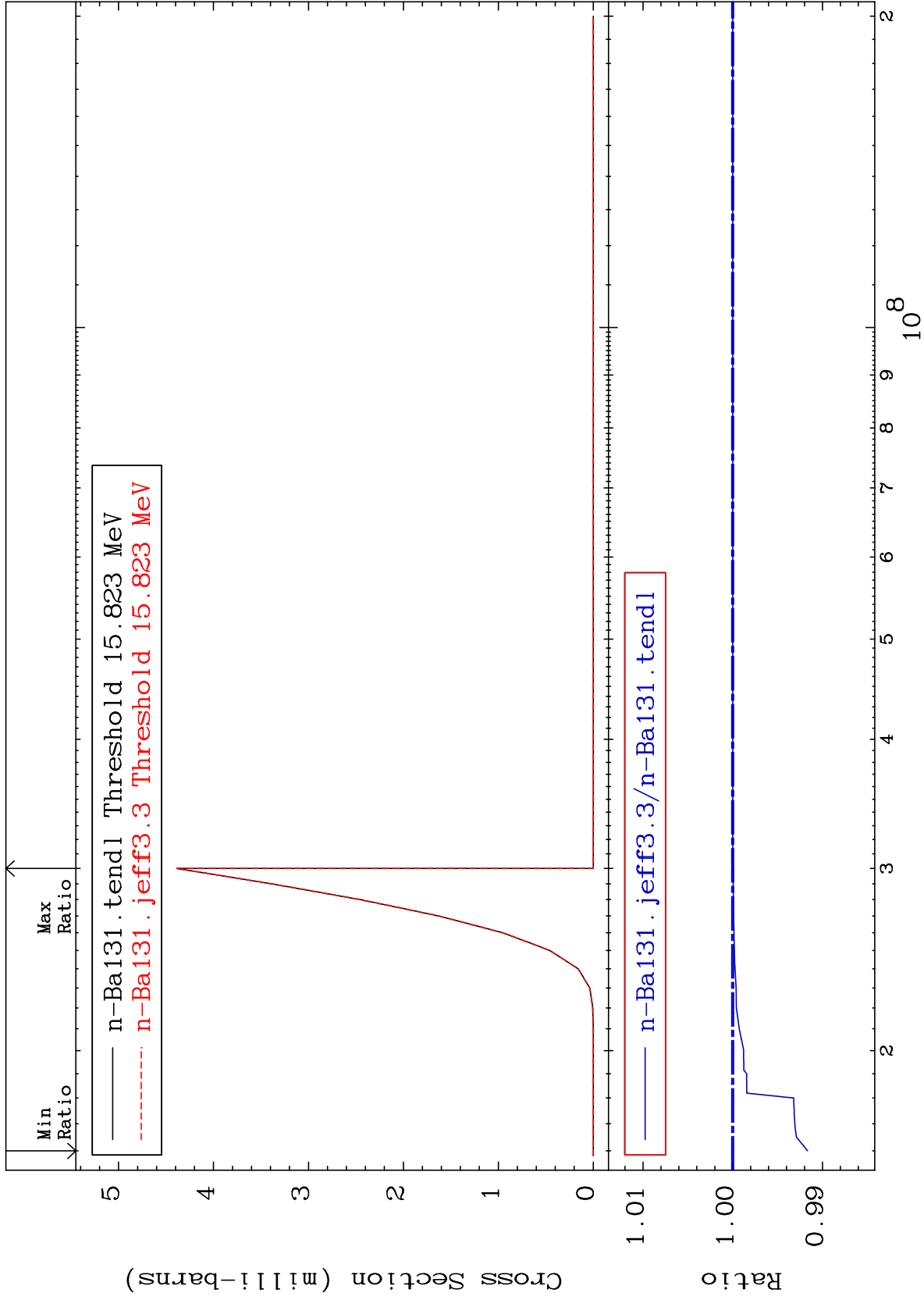
MAT 5628

(n,n') t

56-Ba-131

Cross Section

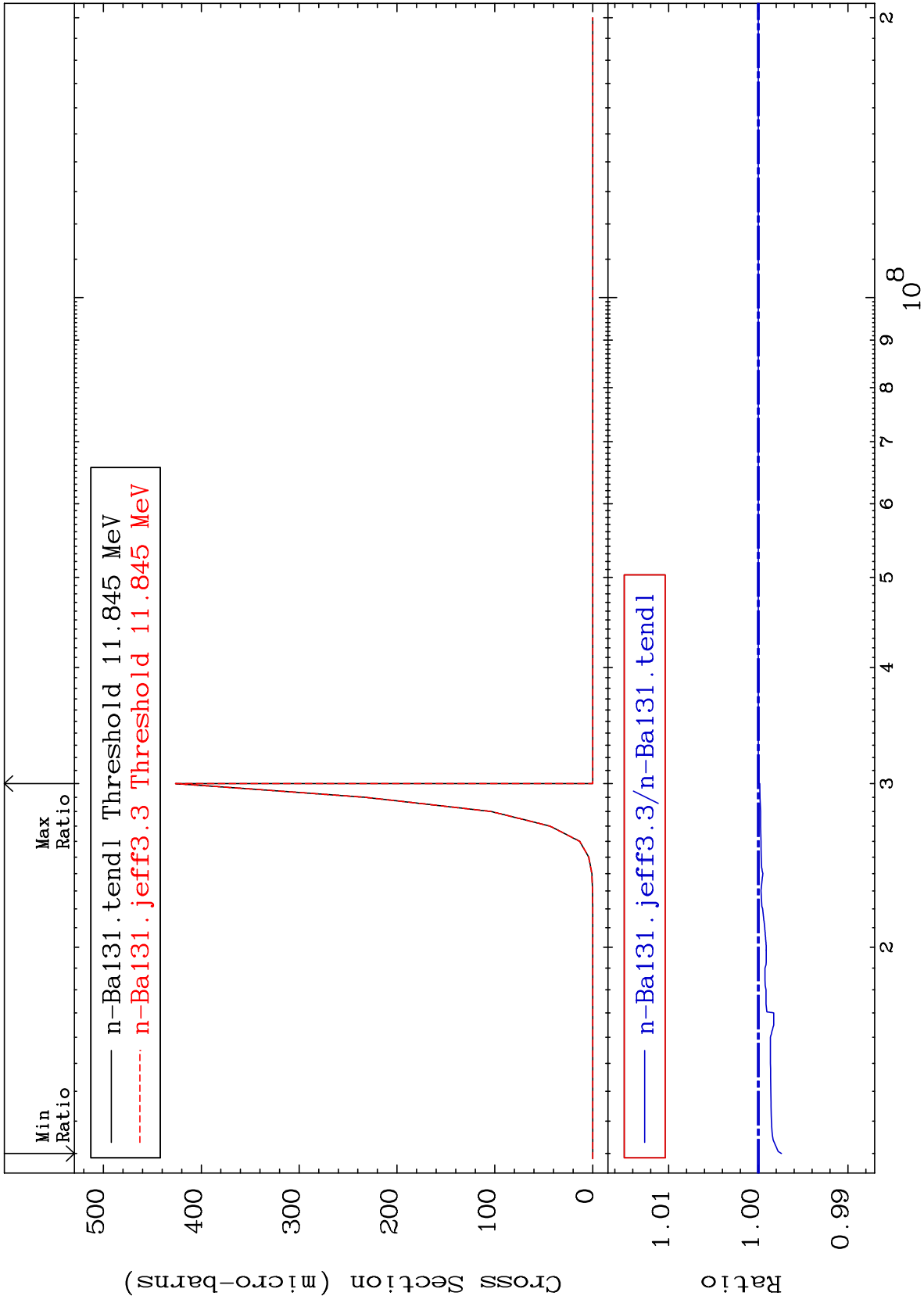
-0.834 To 0.000 %



MAT 5628

(n, n') He-3
Cross Section

56-Ba-131
-0.259 To 0.000 %



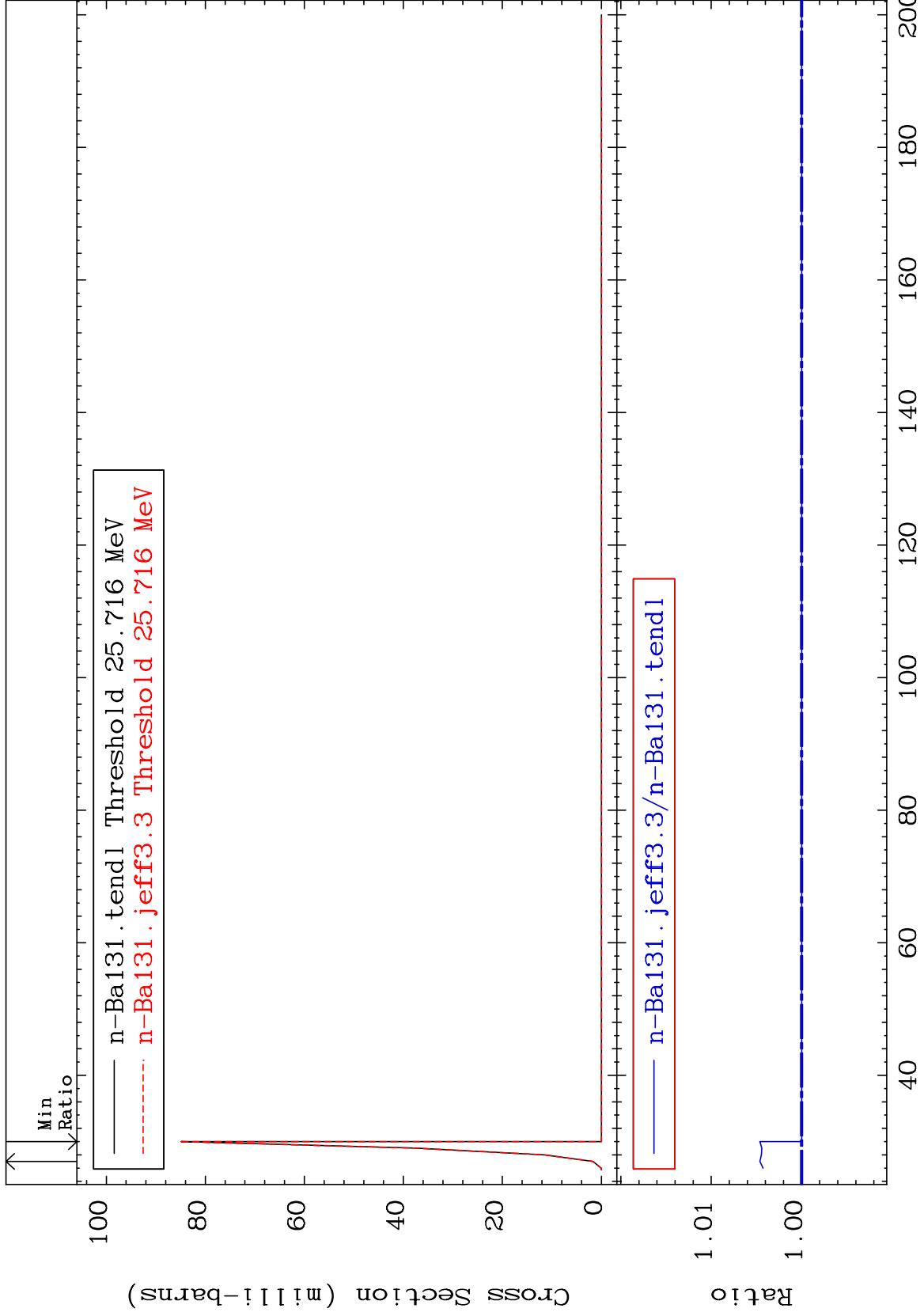
MAT 5628

(n,4n)

56-Ba-131

Cross Section

0.000 To 0.462 %



15

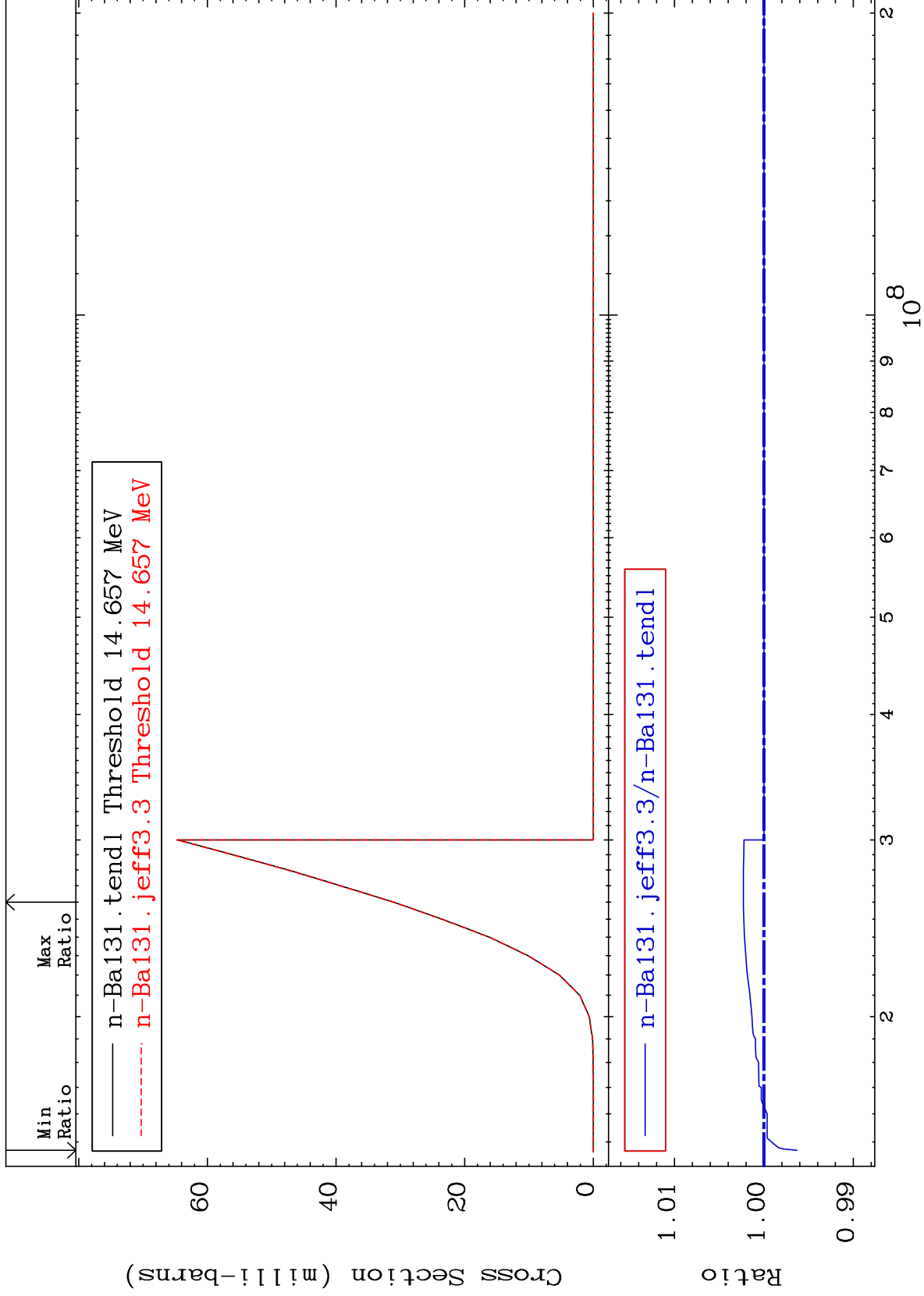
Incident Energy (MeV)

56-Ba-131

MAT 5628

(n,2n) p
Cross Section

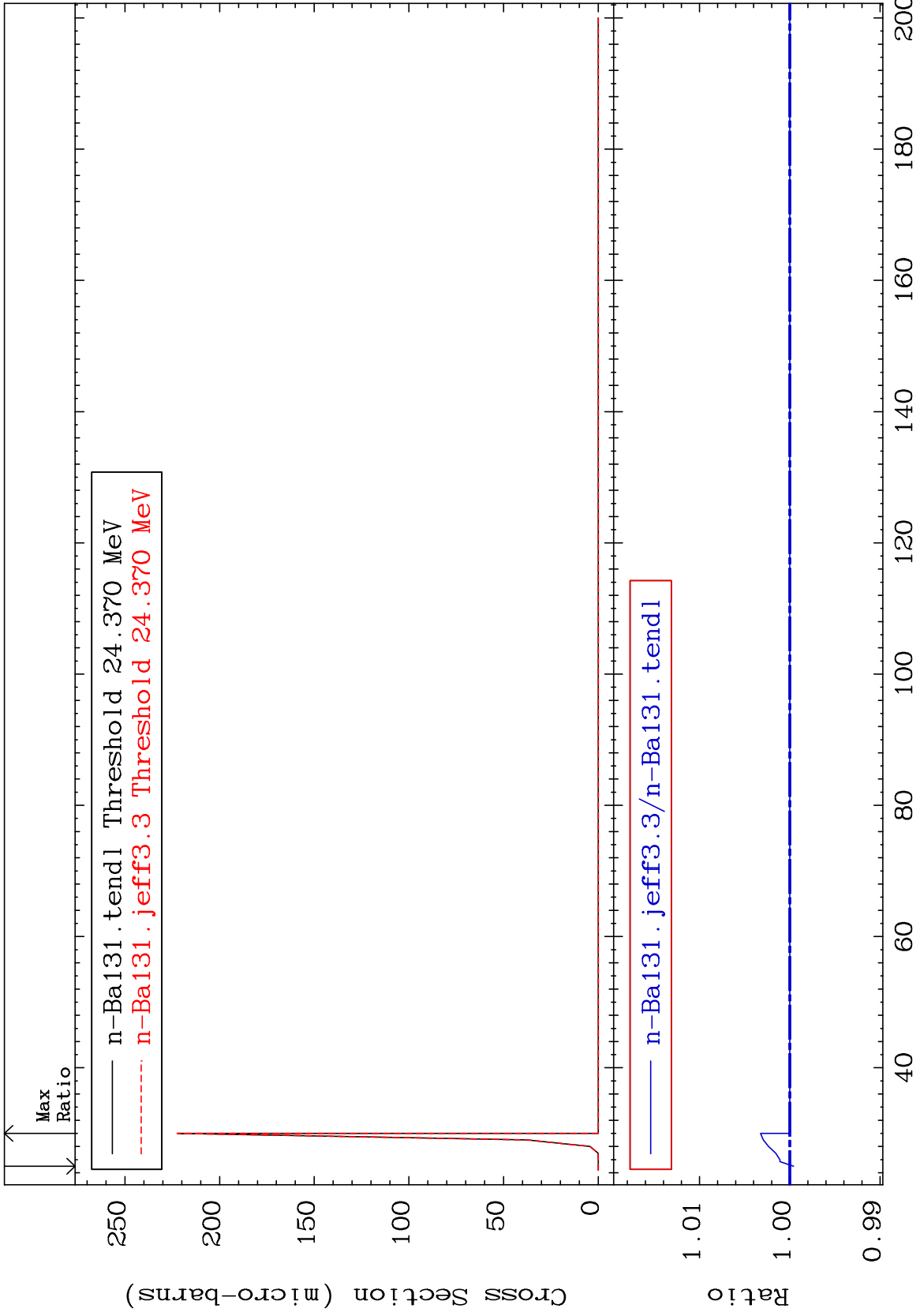
56-Ba-131
-0.369 To 0.230 %



MAT 5628

(n,3n) p
Cross Section

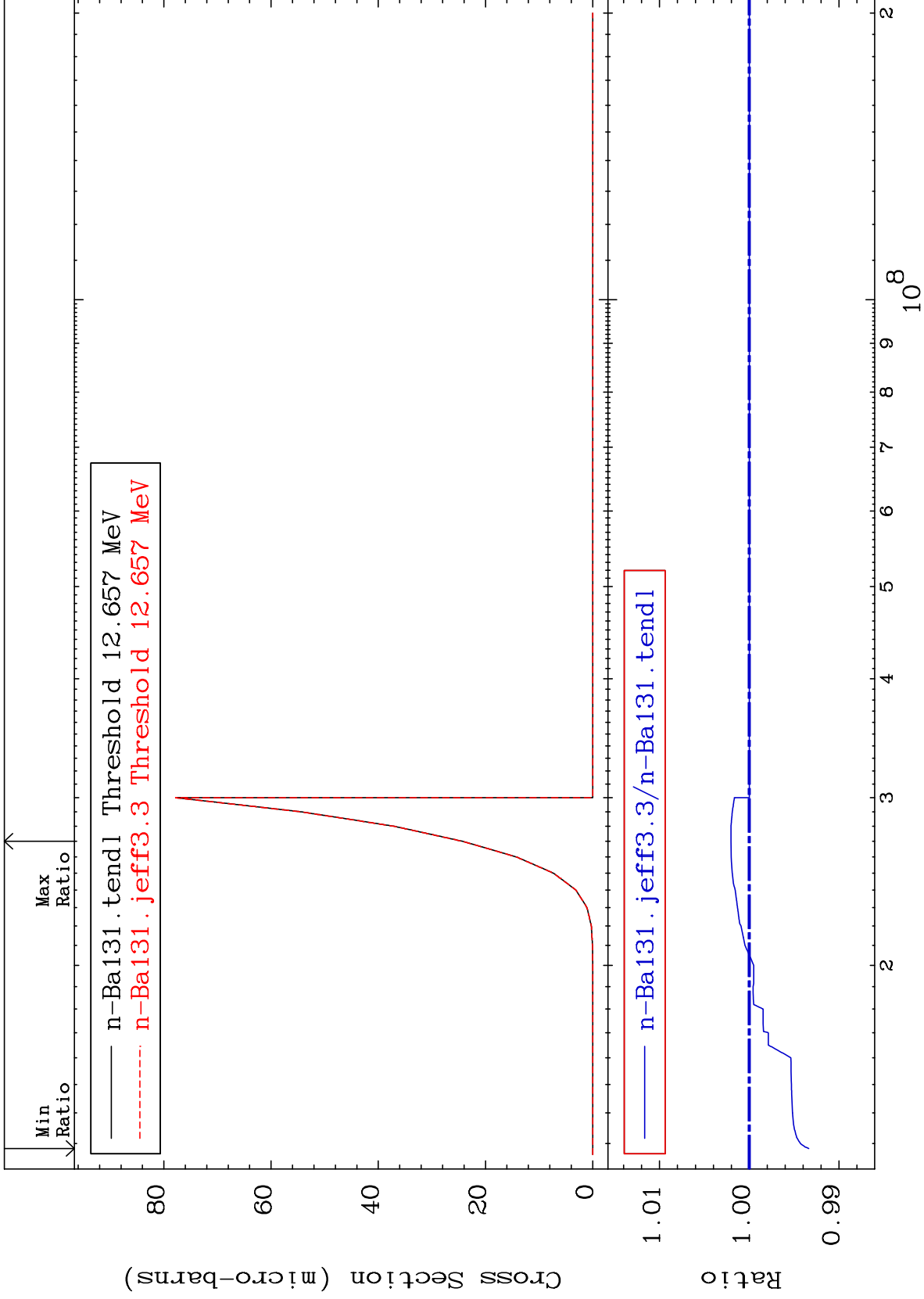
56-Ba-131
-0.042 To 0.324 %



MAT 5628

(n,2n) p
Cross Section

56-Ba-131
-0.664 To 0.204 %



18

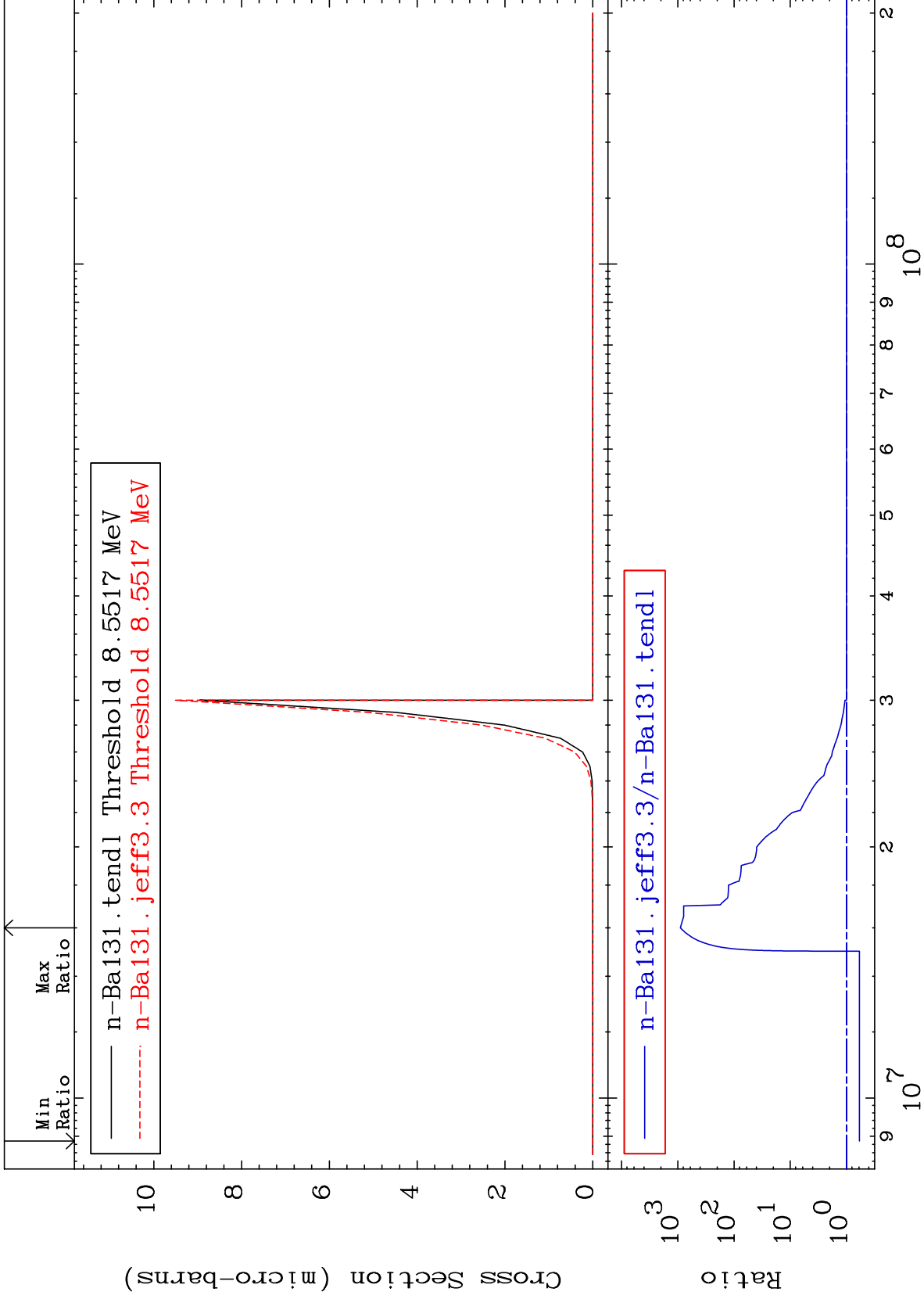
Incident Energy (eV)

56-Ba-131

MAT 5628

(n,n') p α
Cross Section

56-Ba-131
-41.09 To 9999. %



19

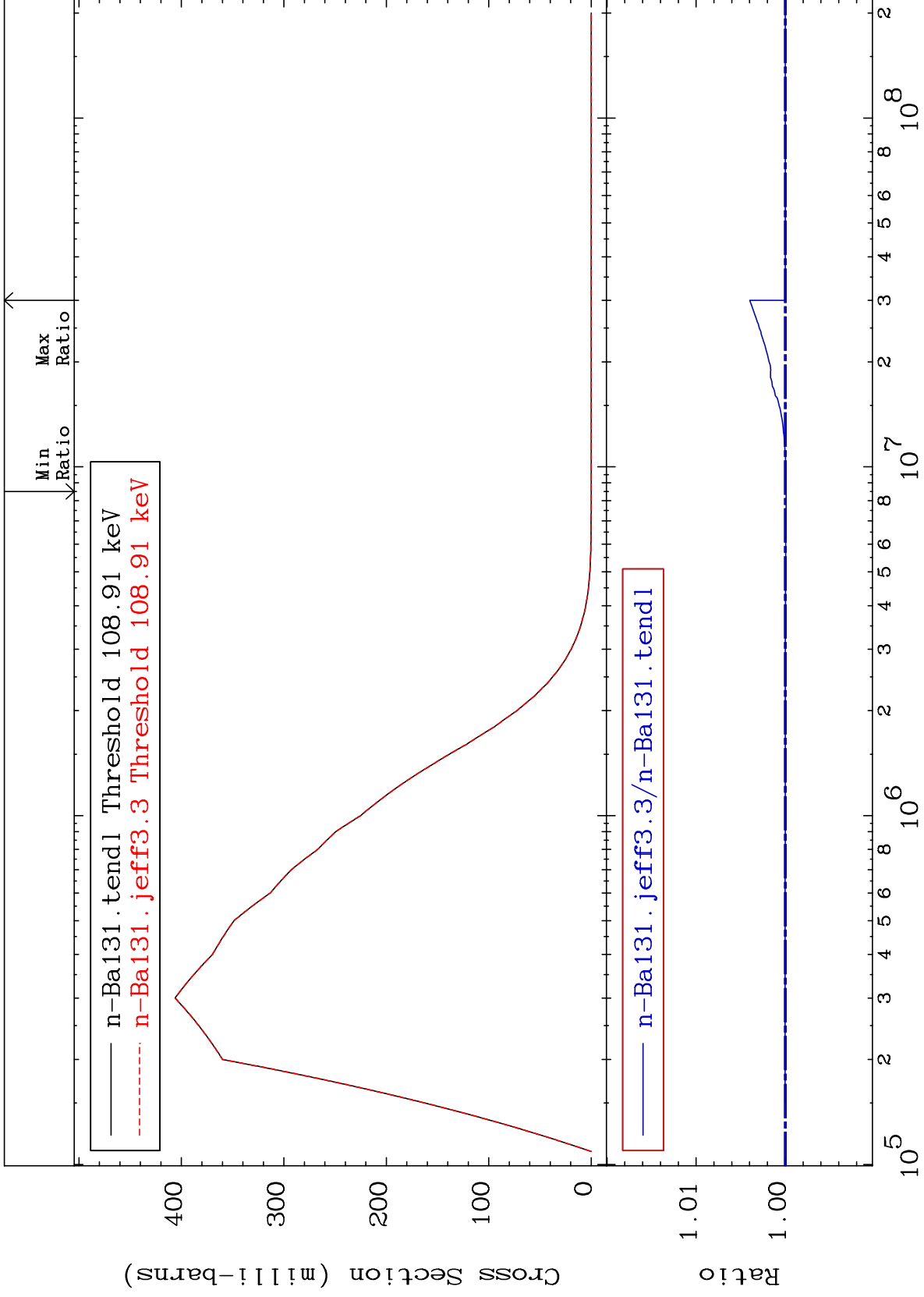
56-Ba-131

56-Ba-131

MAT 5628

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

56-Ba-131
-0.010 To 0.398 %



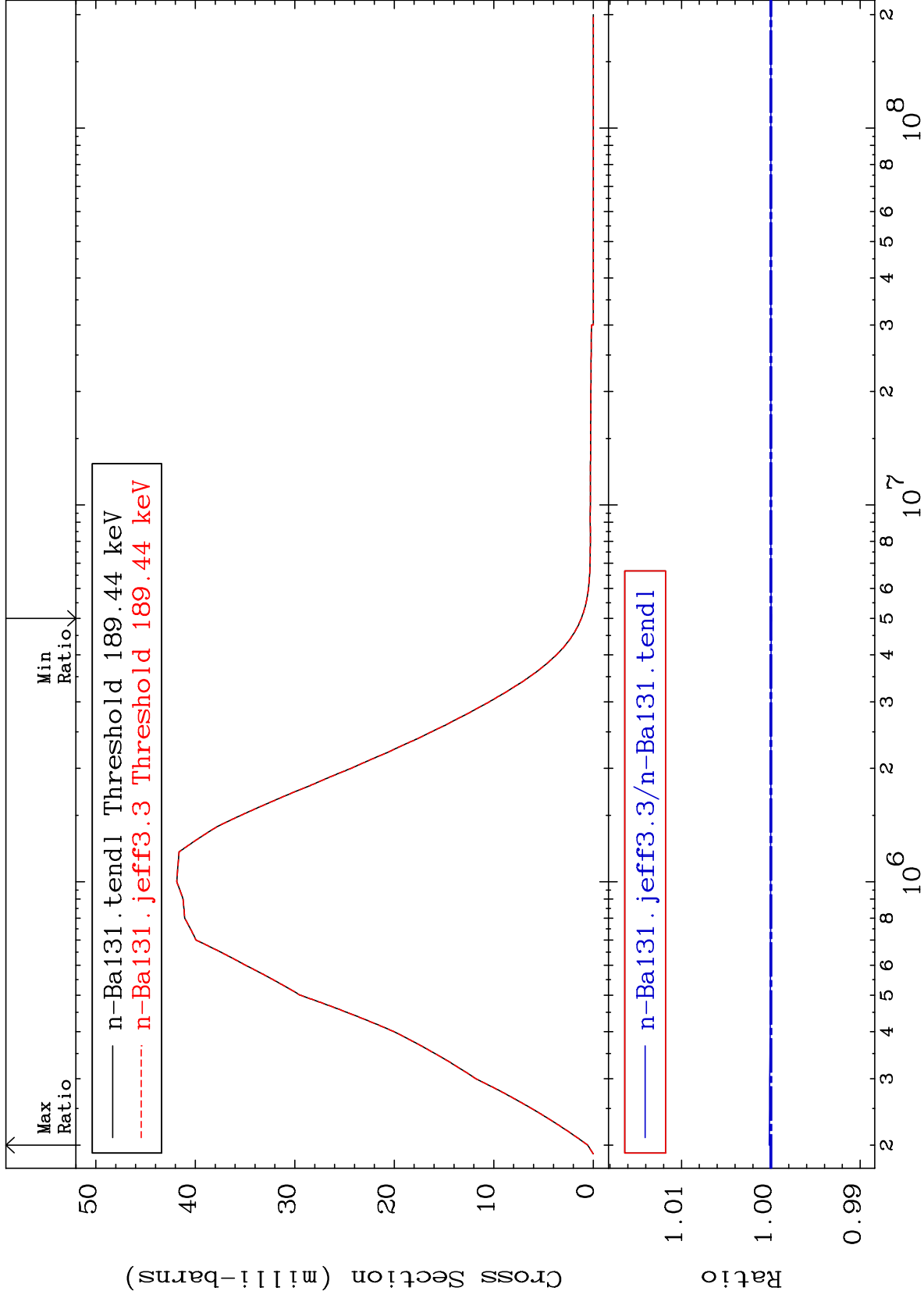
Incident Energy (eV)

56-Ba-131

MAT 5628

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

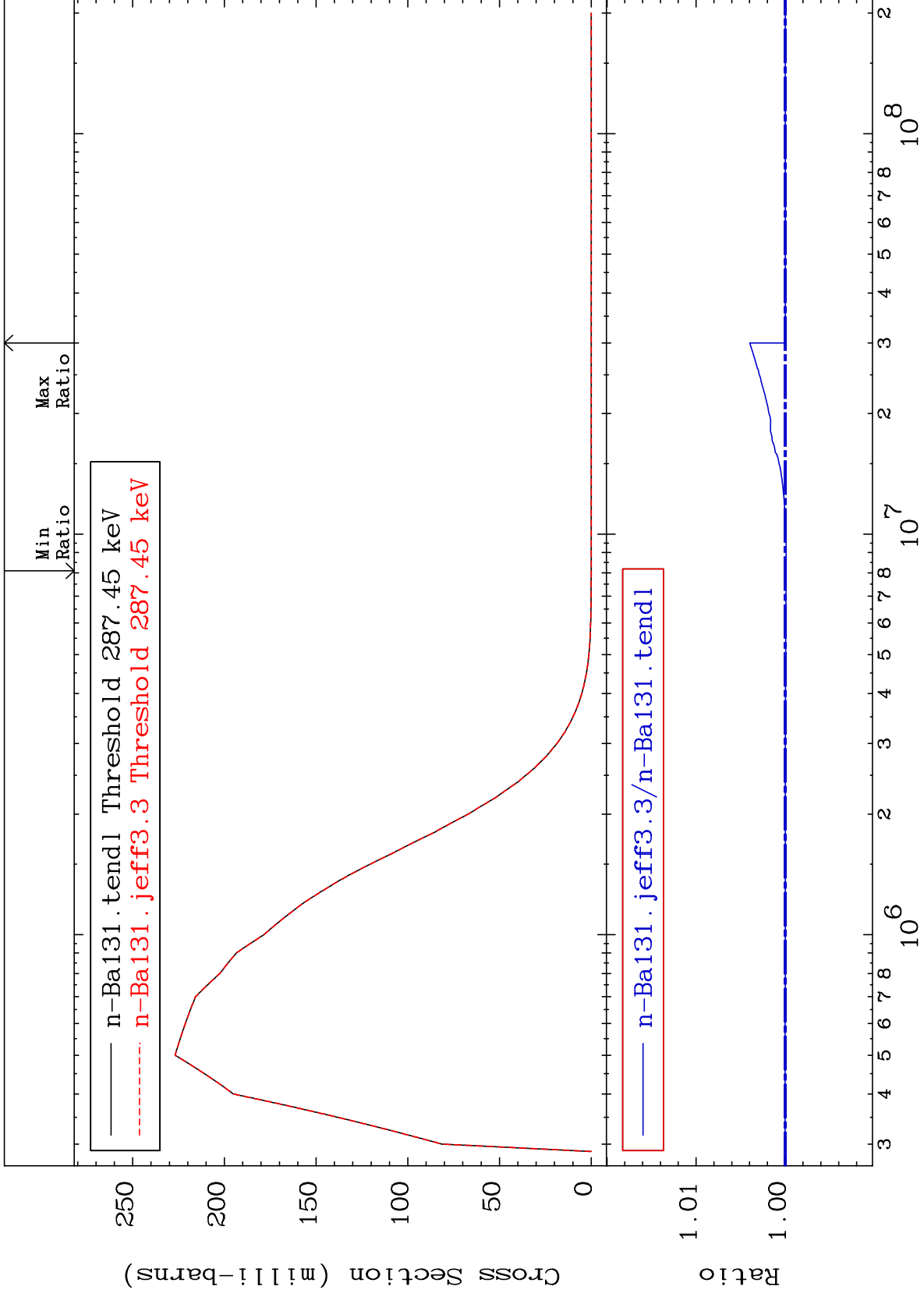
56-Ba-131
-0.004 To 0.019 %



MAT 5628

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

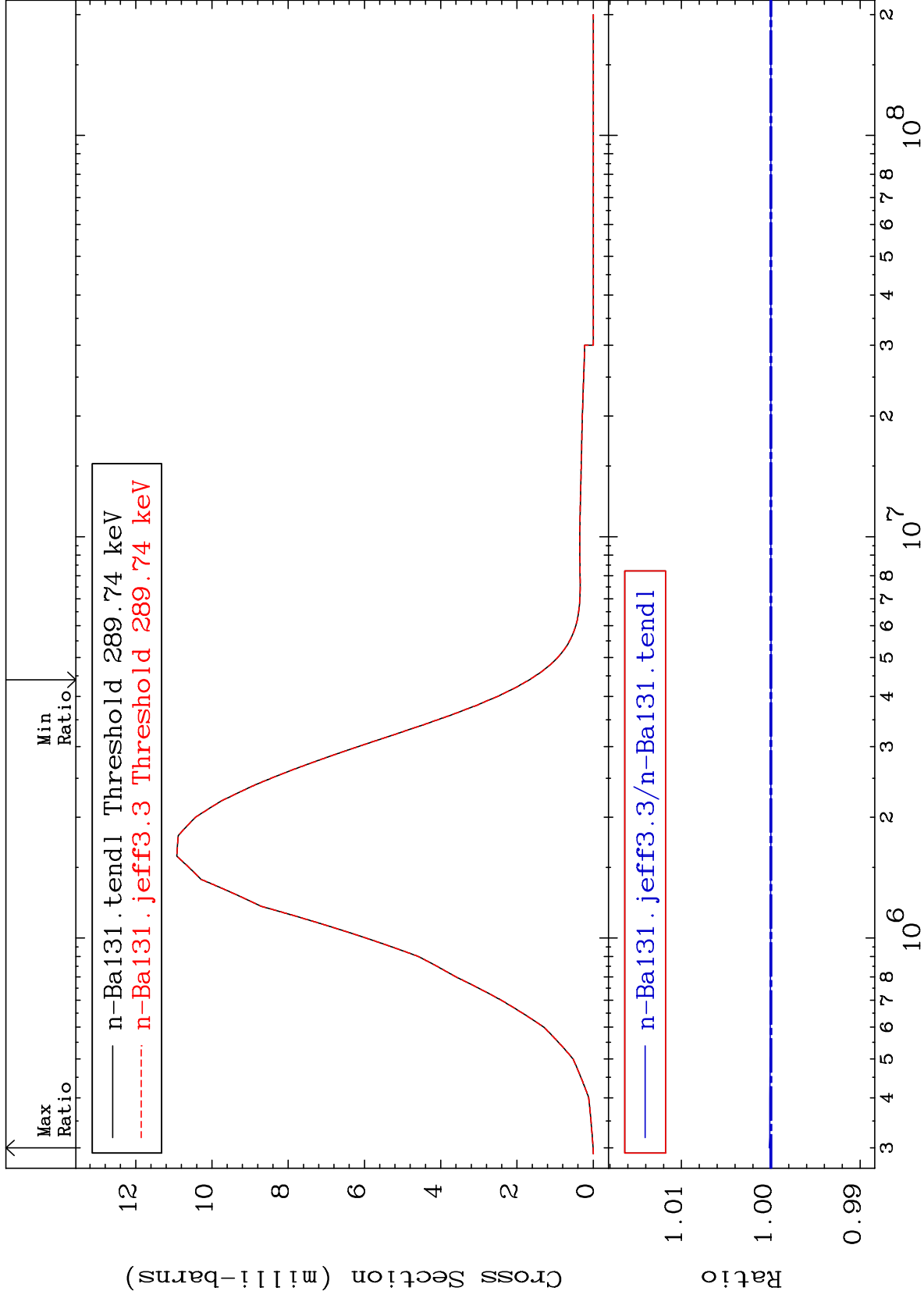
56-Ba-131
-0.010 To 0.398 %



MAT 5628

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

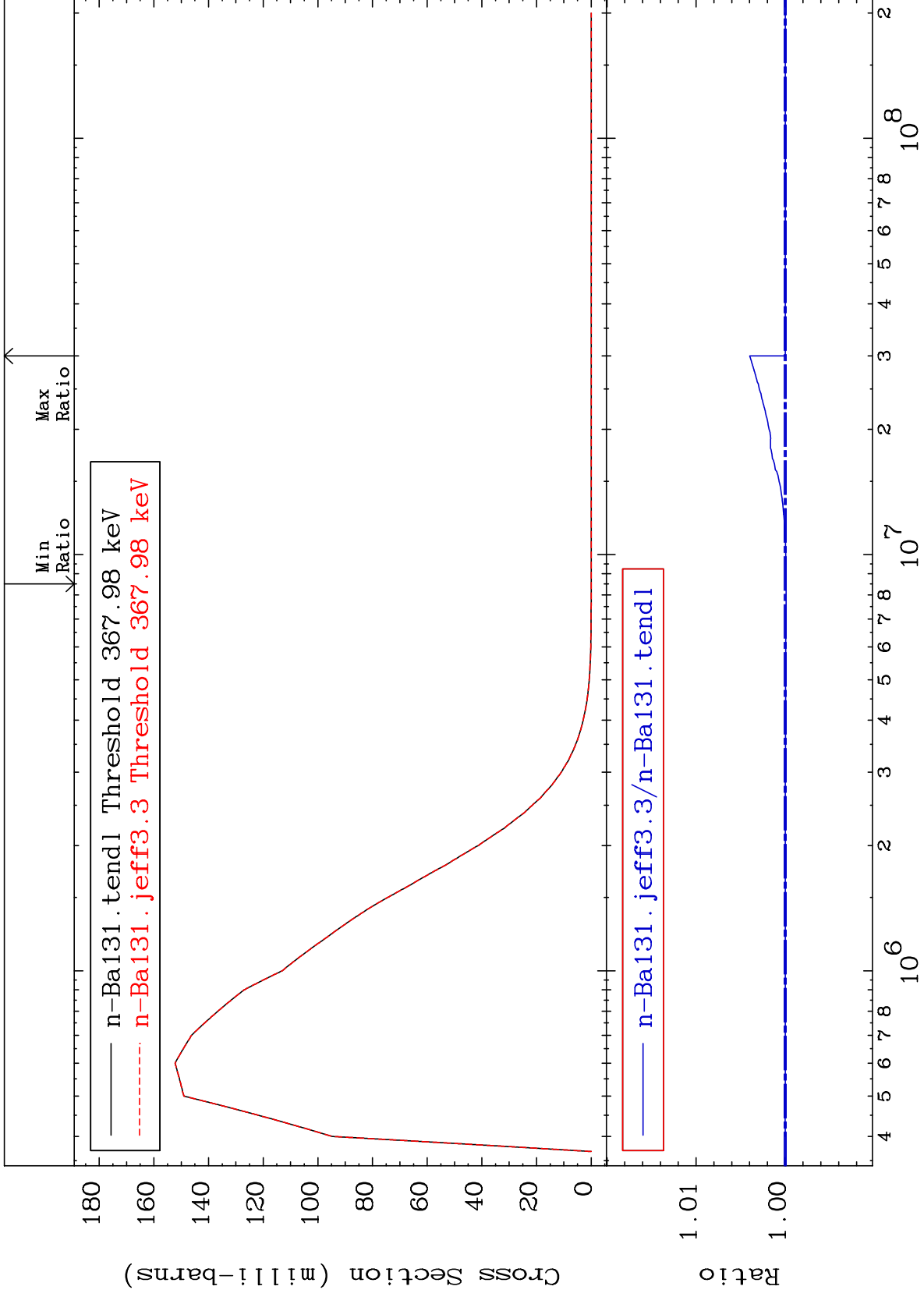
56-Ba-131
-0.004 To 0.018 %



MAT 5628

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

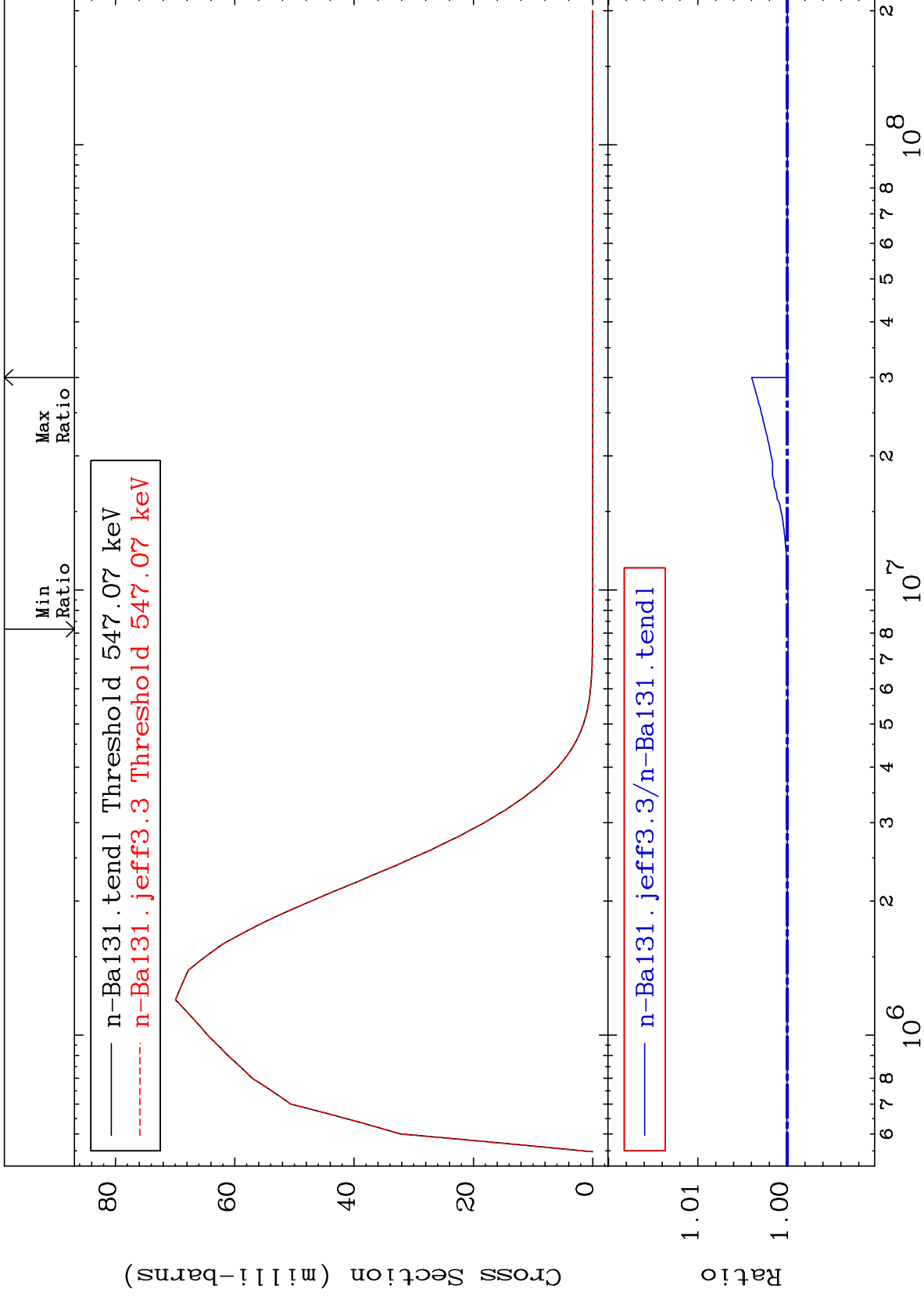
56-Ba-131
-0.010 To 0.398 %



MAT 5628

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

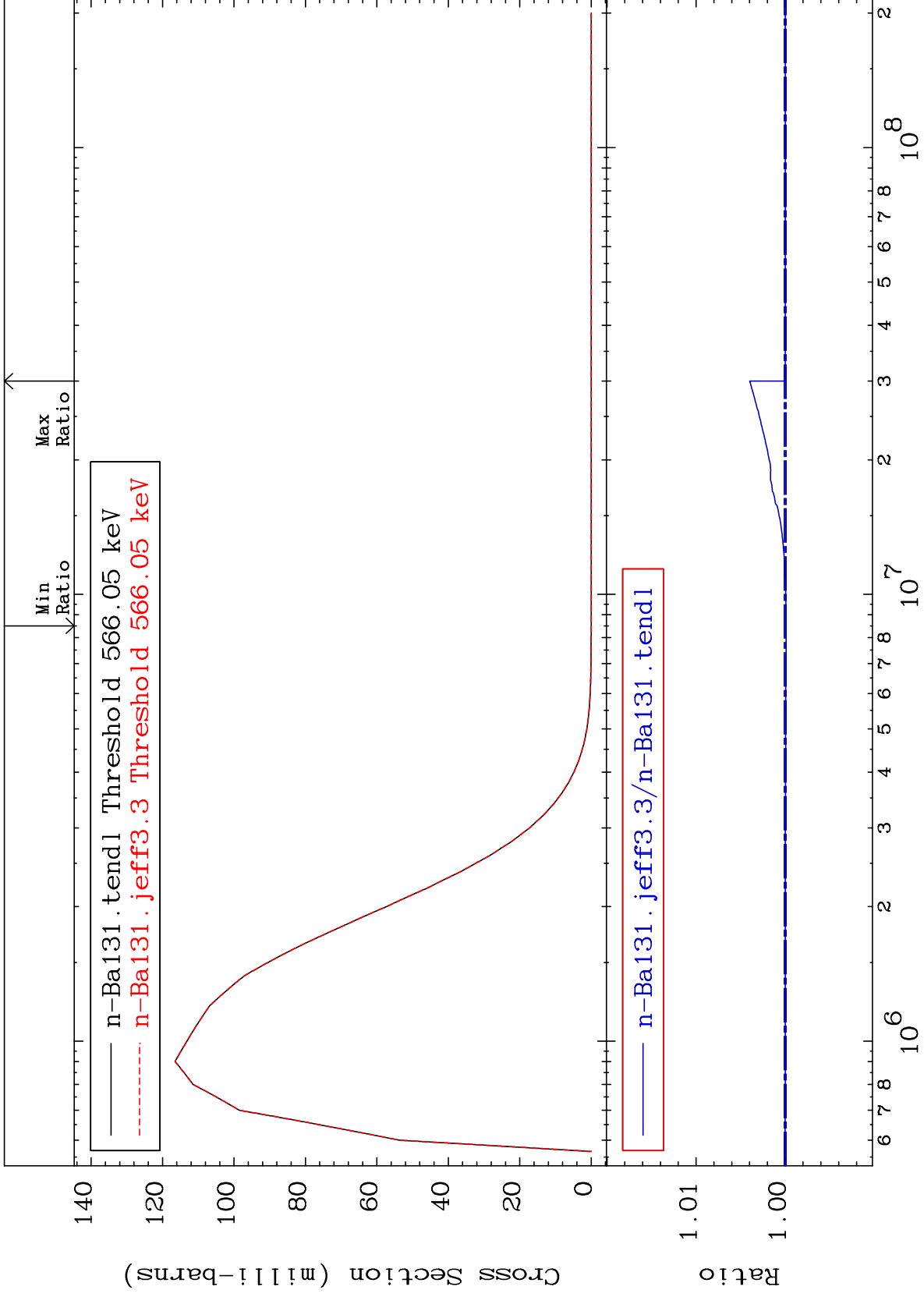
56-Ba-131
-0.010 To 0.398 %



MAT 5628

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

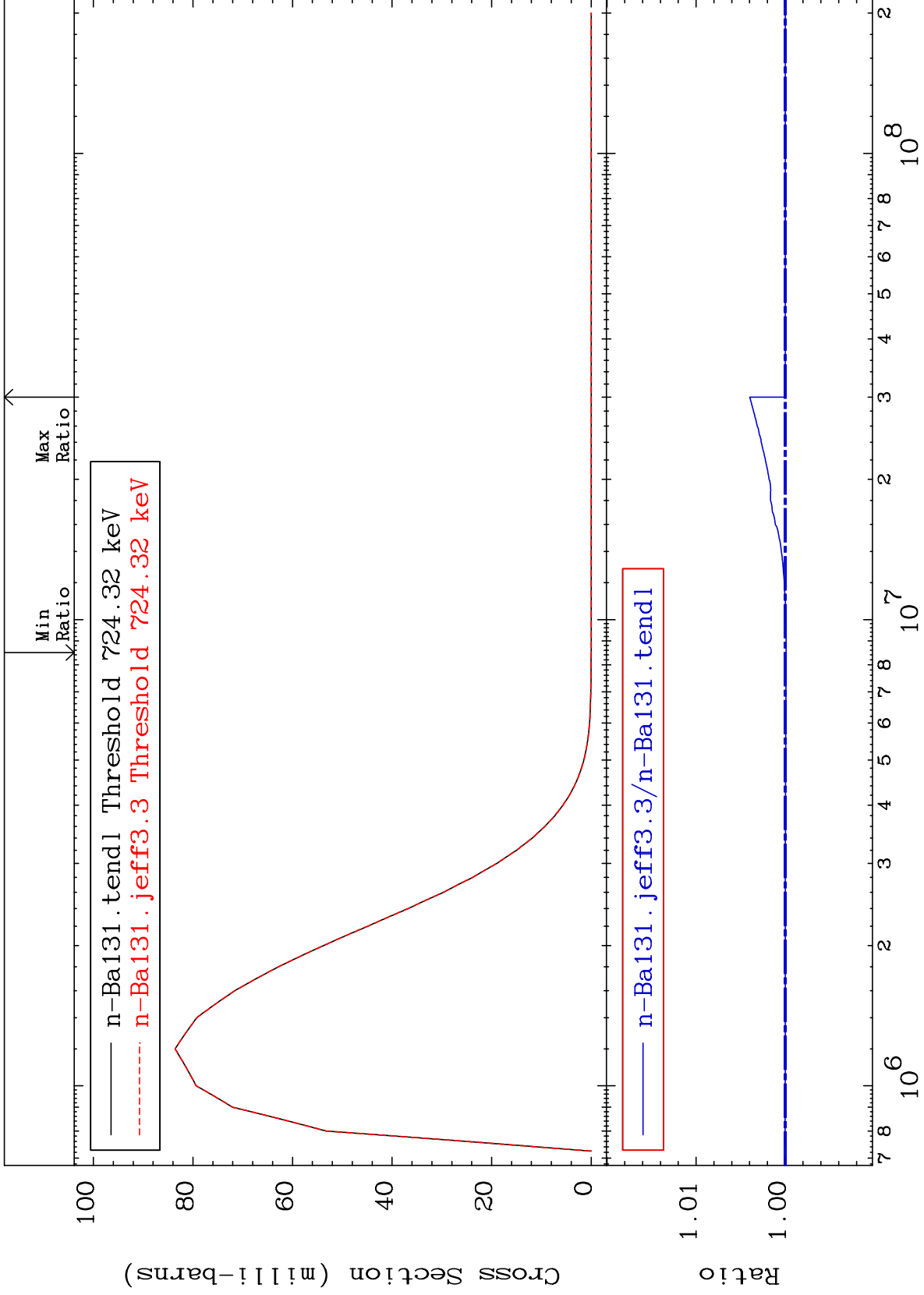
56-Ba-131
-0.010 To 0.398 %



MAT 5628

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

56-Ba-131
-0.010 To 0.398 %



27

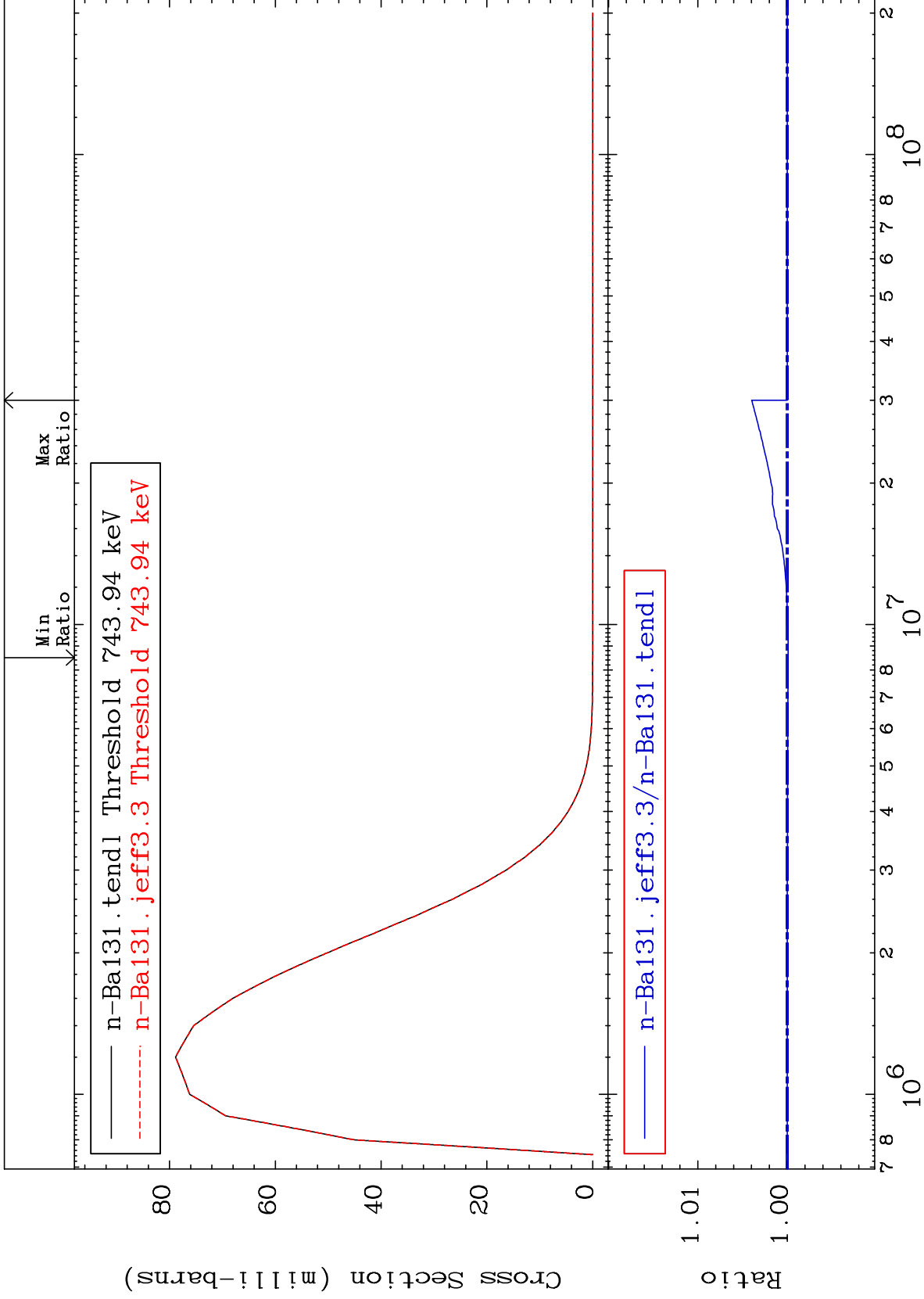
Incident Energy (eV)

56-Ba-131

MAT 5628

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

56-Ba-131
-0.010 To 0.398 %



28

Incident Energy (eV)

56-Ba-131

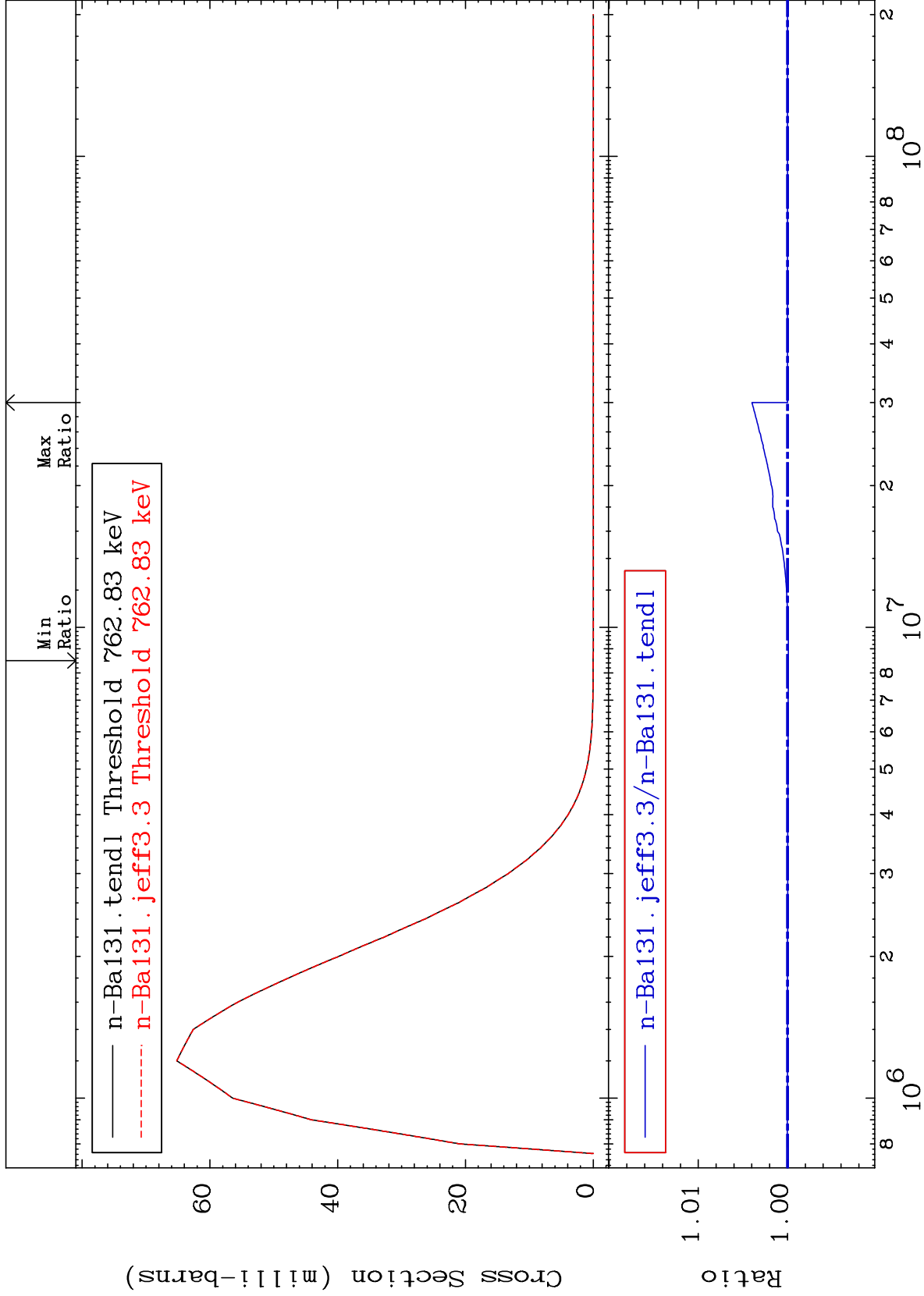
MAT 5628

MT= 63 (n,n') Level

56-Ba-131

-0.010 To 0.398 %

Cross Section



29

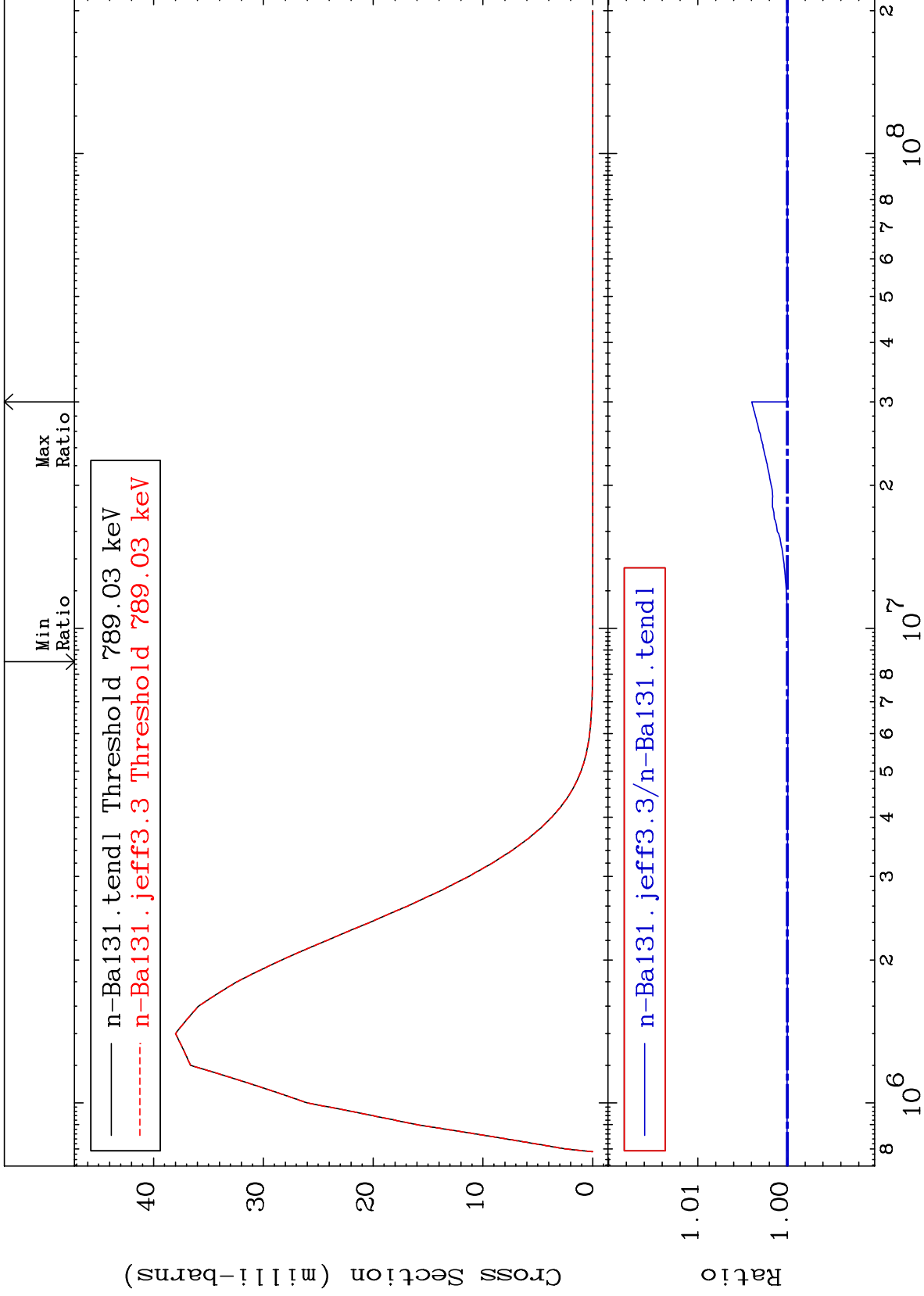
Incident Energy (eV)

56-Ba-131

MAT 5628

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

56-Ba-131
-0.010 To 0.398 %



30

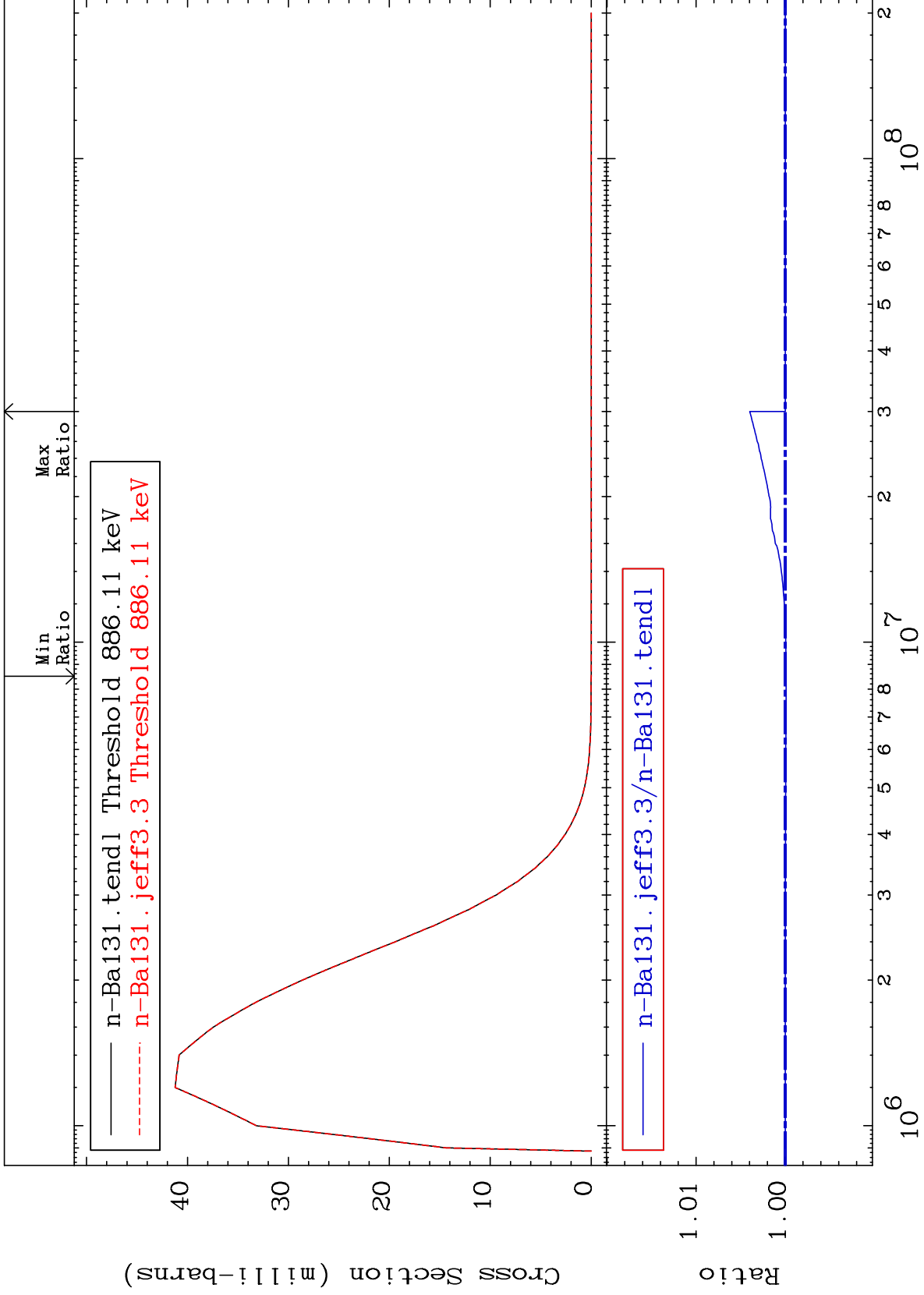
Incident Energy (eV)

56-Ba-131

MAT 5628

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

56-Ba-131
-0.010 To 0.398 %



31

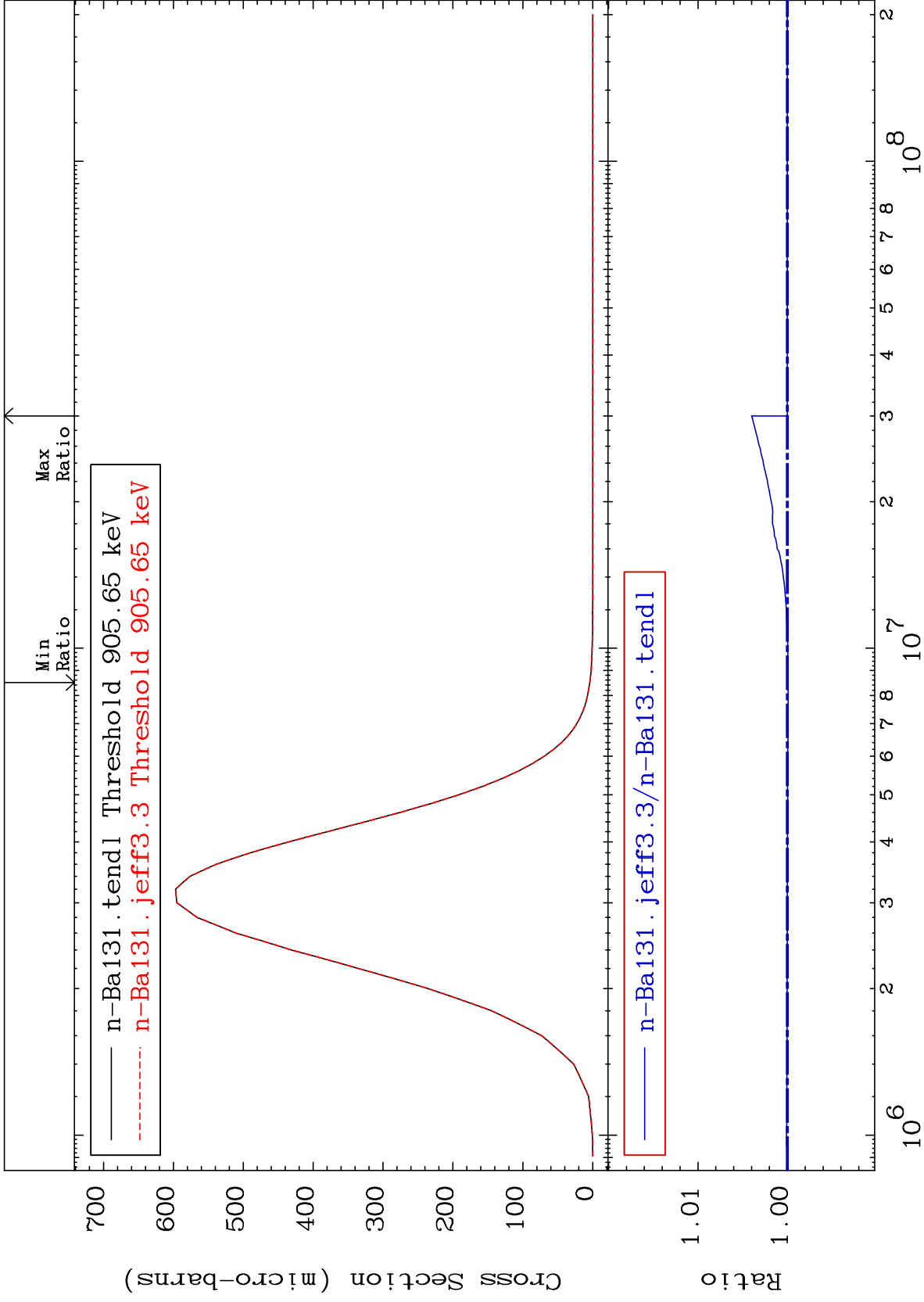
Incident Energy (eV)

56-Ba-131

MAT 5628

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

56-Ba-131
-0.009 To 0.399 %



32

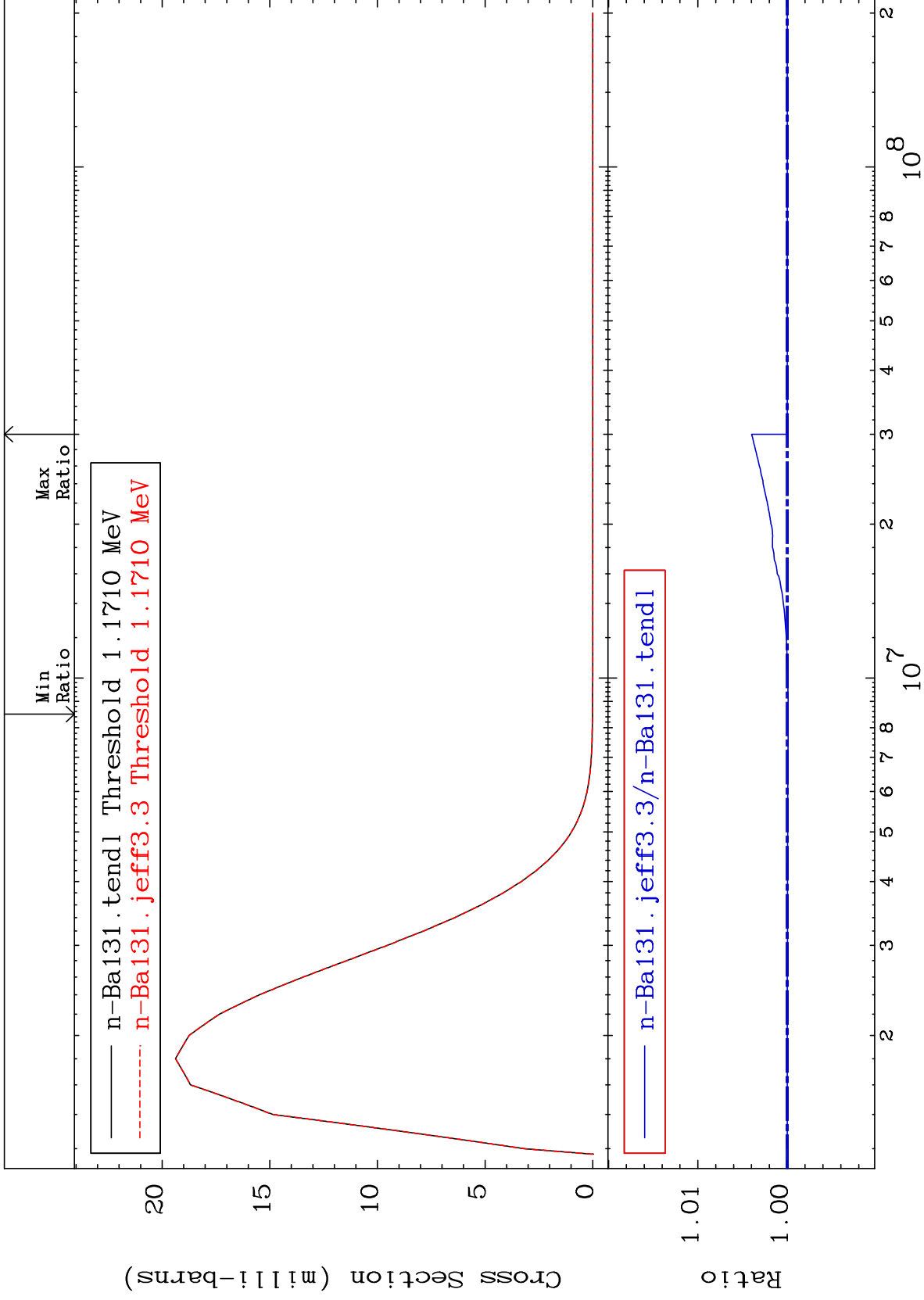
Incident Energy (eV)

56-Ba-131

MAT 5628

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

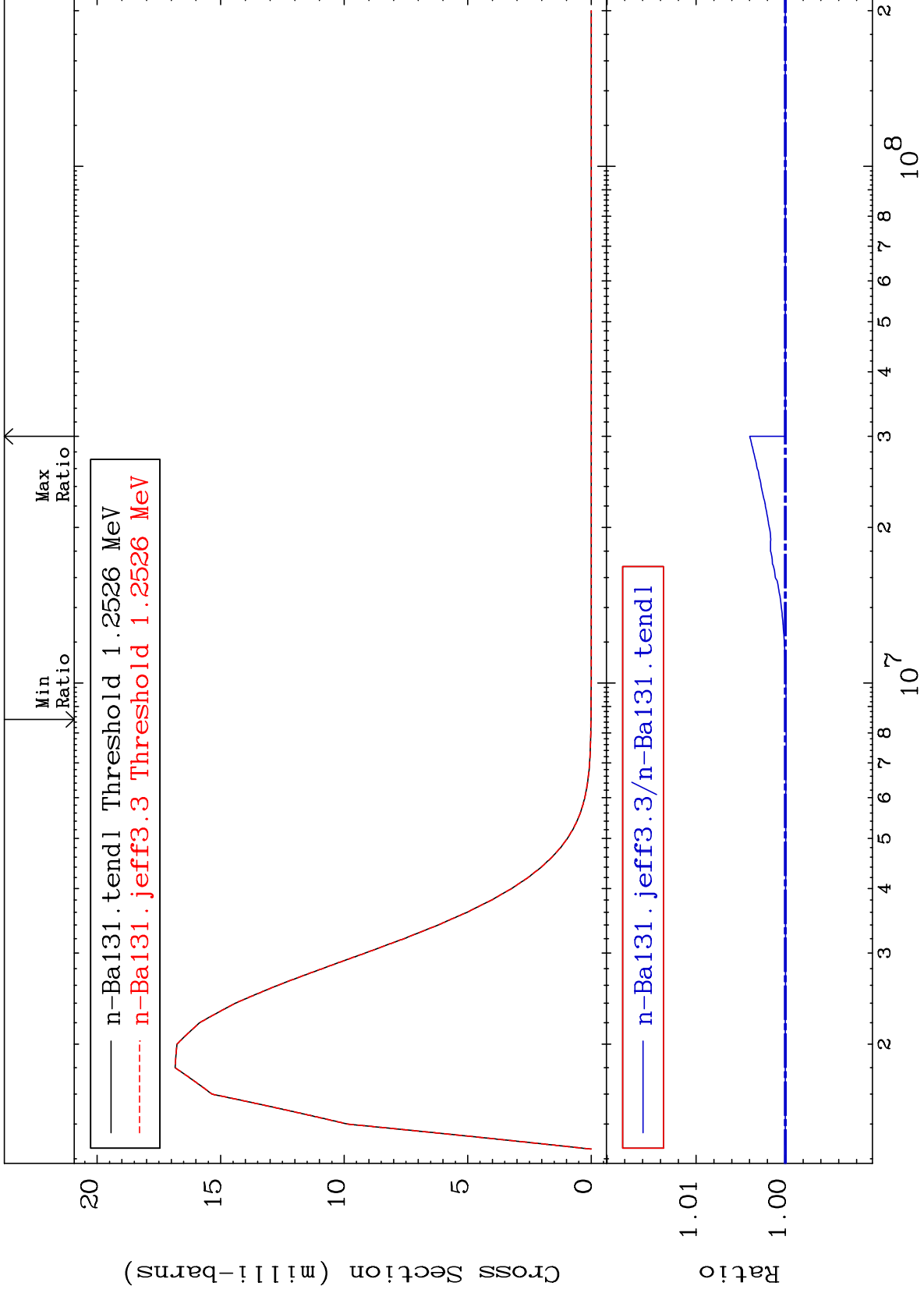
56-Ba-131
-0.010 To 0.398 %



MAT 5628

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

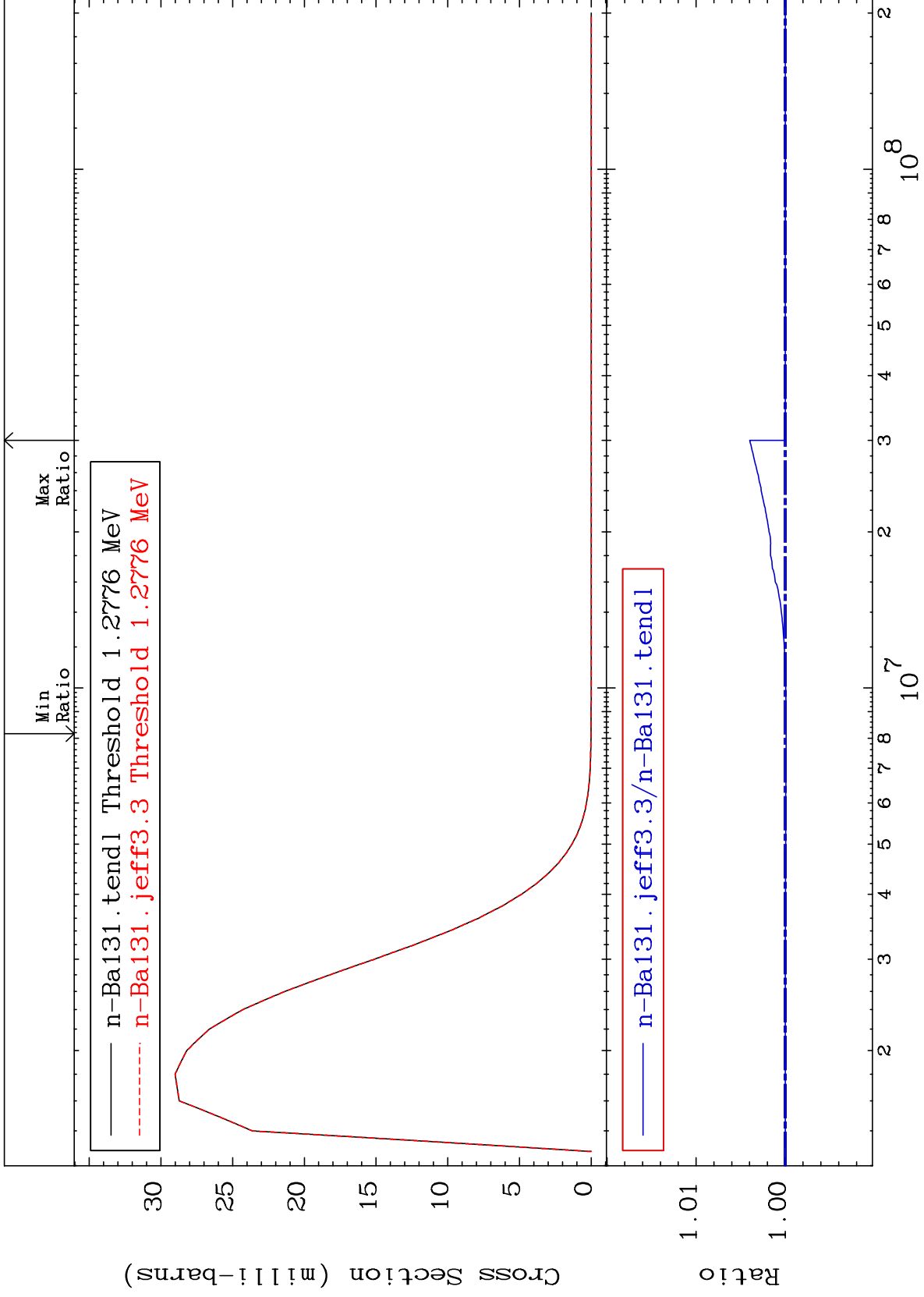
56-Ba-131
-0.010 To 0.398 %

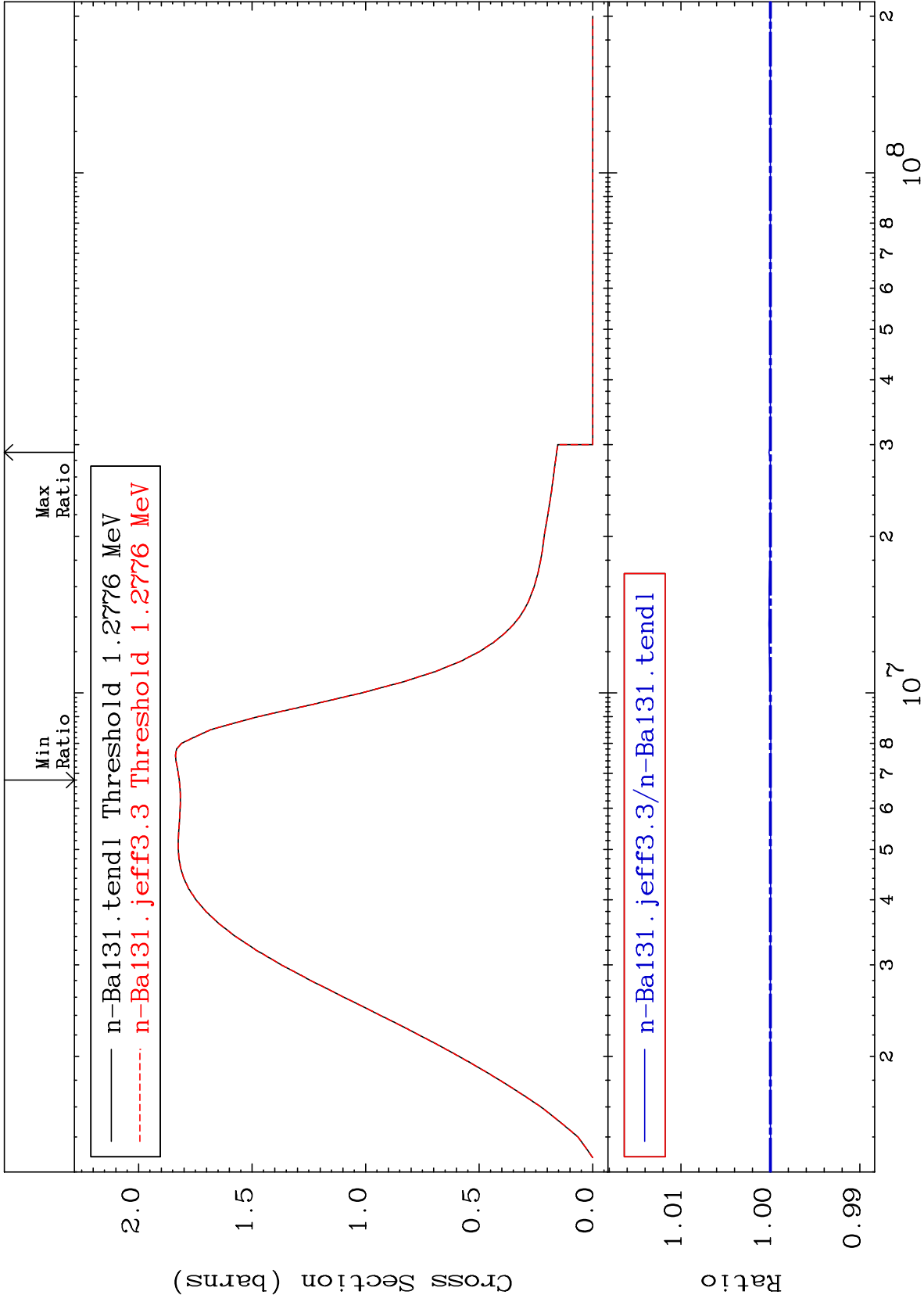


MAT 5628

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

56-Ba-131
-0.010 To 0.398 %

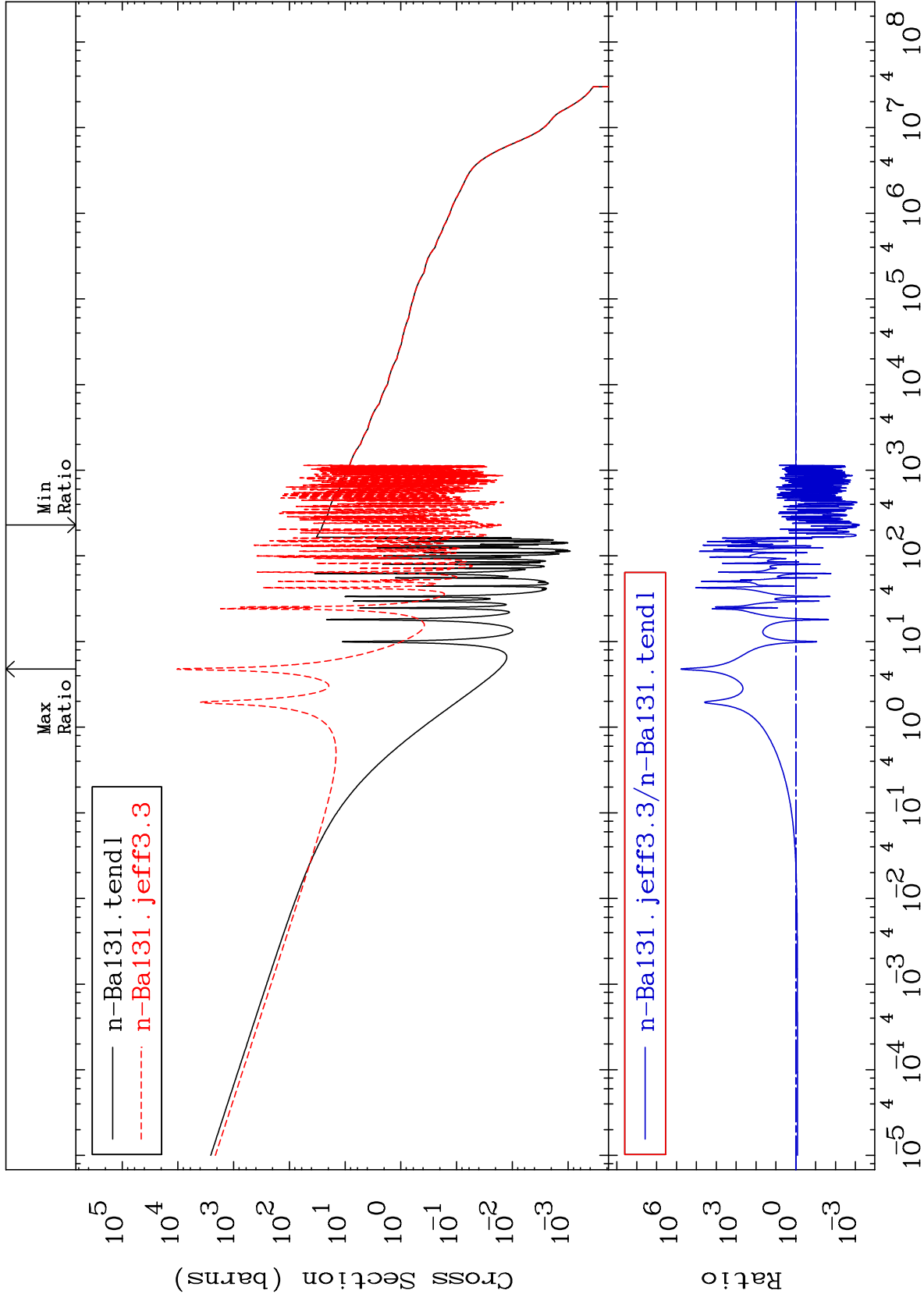




MAT 5628

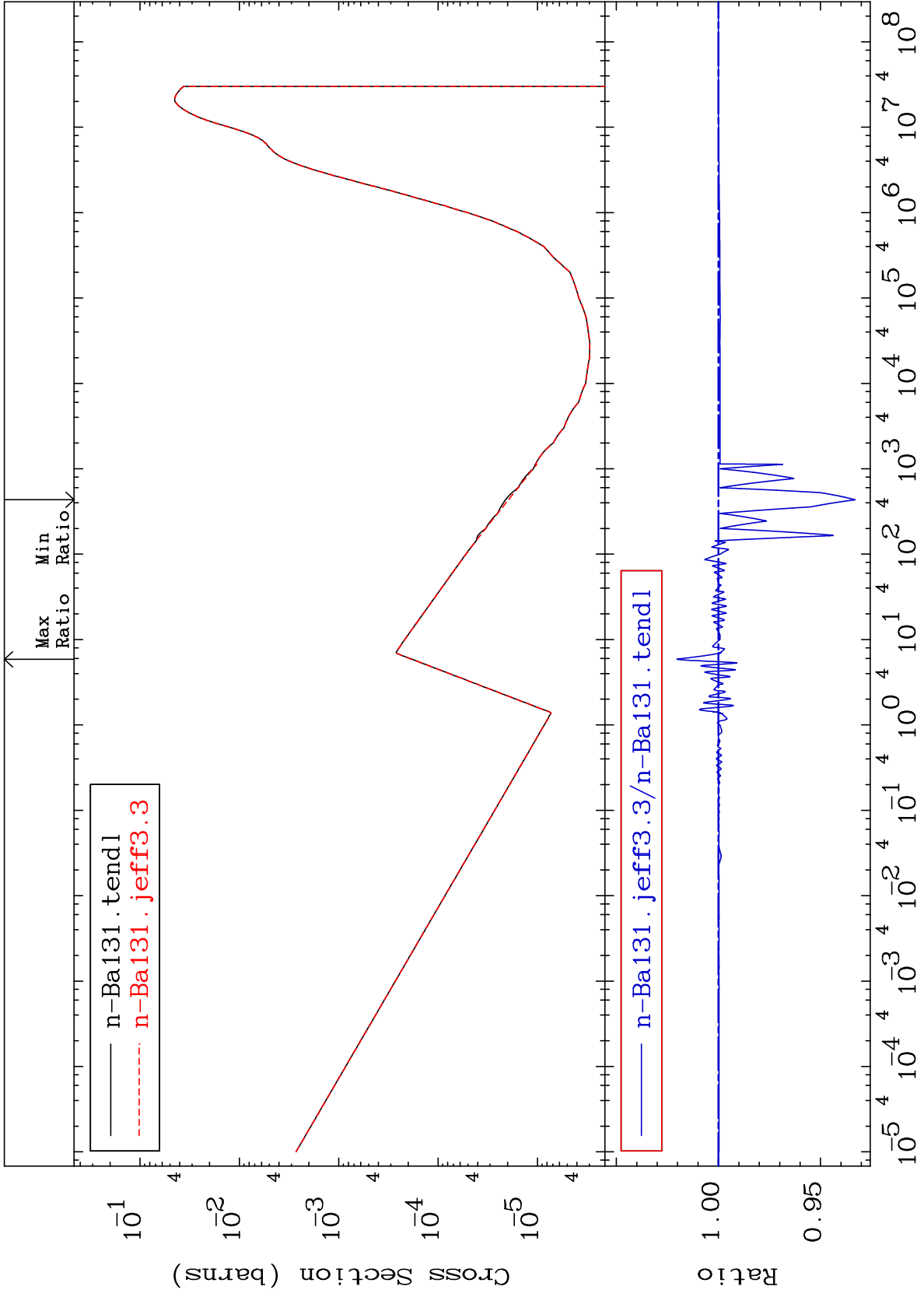
(n, γ)
Cross Section

56-Ba-131
-99.94 To 9999. %



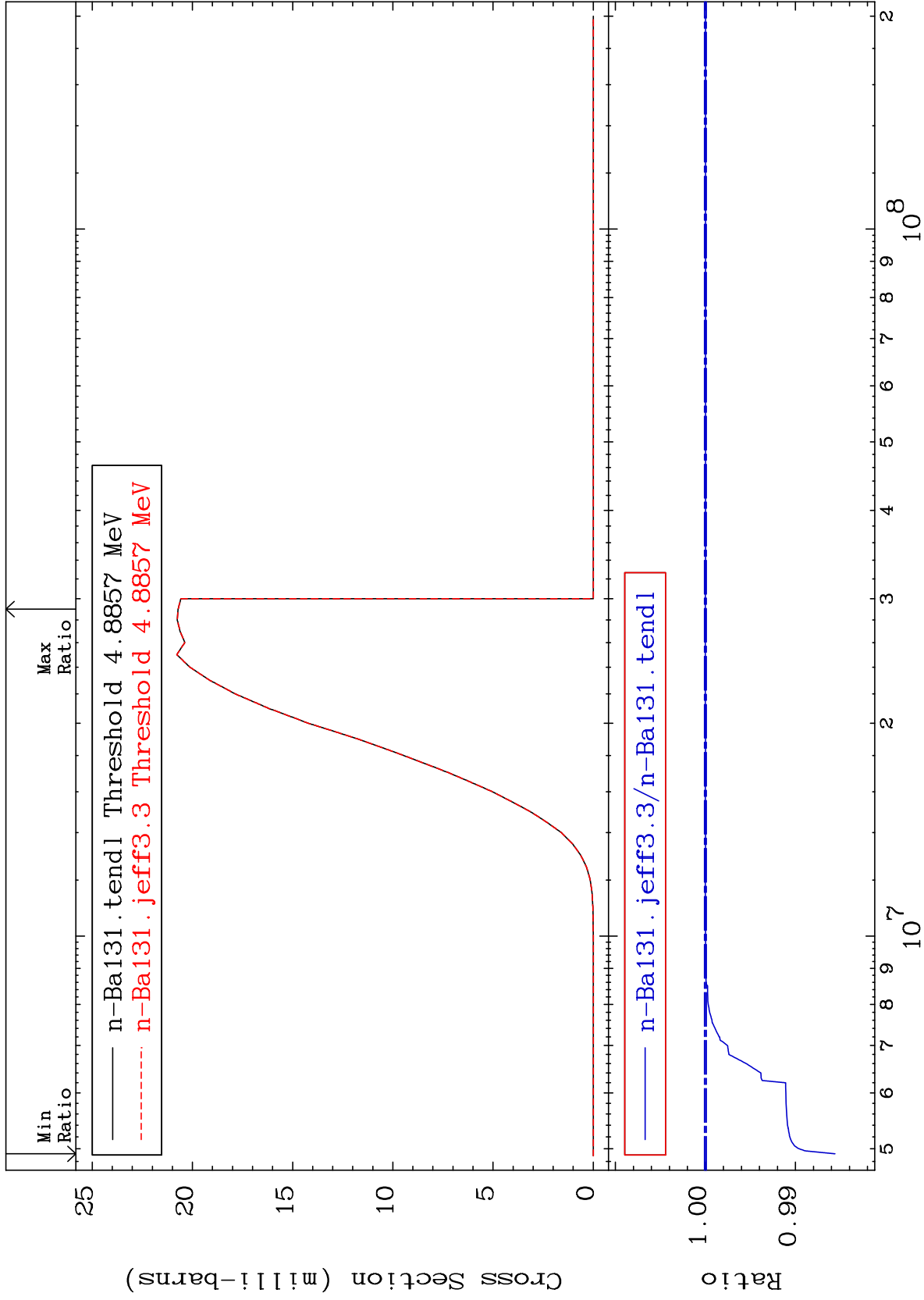
MAT 5628

(n,p) Cross Section
56-Ba-131
-6.693 To 2.033 %



MAT 5628

(n, d) Cross Section
56-Ba-131
-1.440 To 0.002 %



39

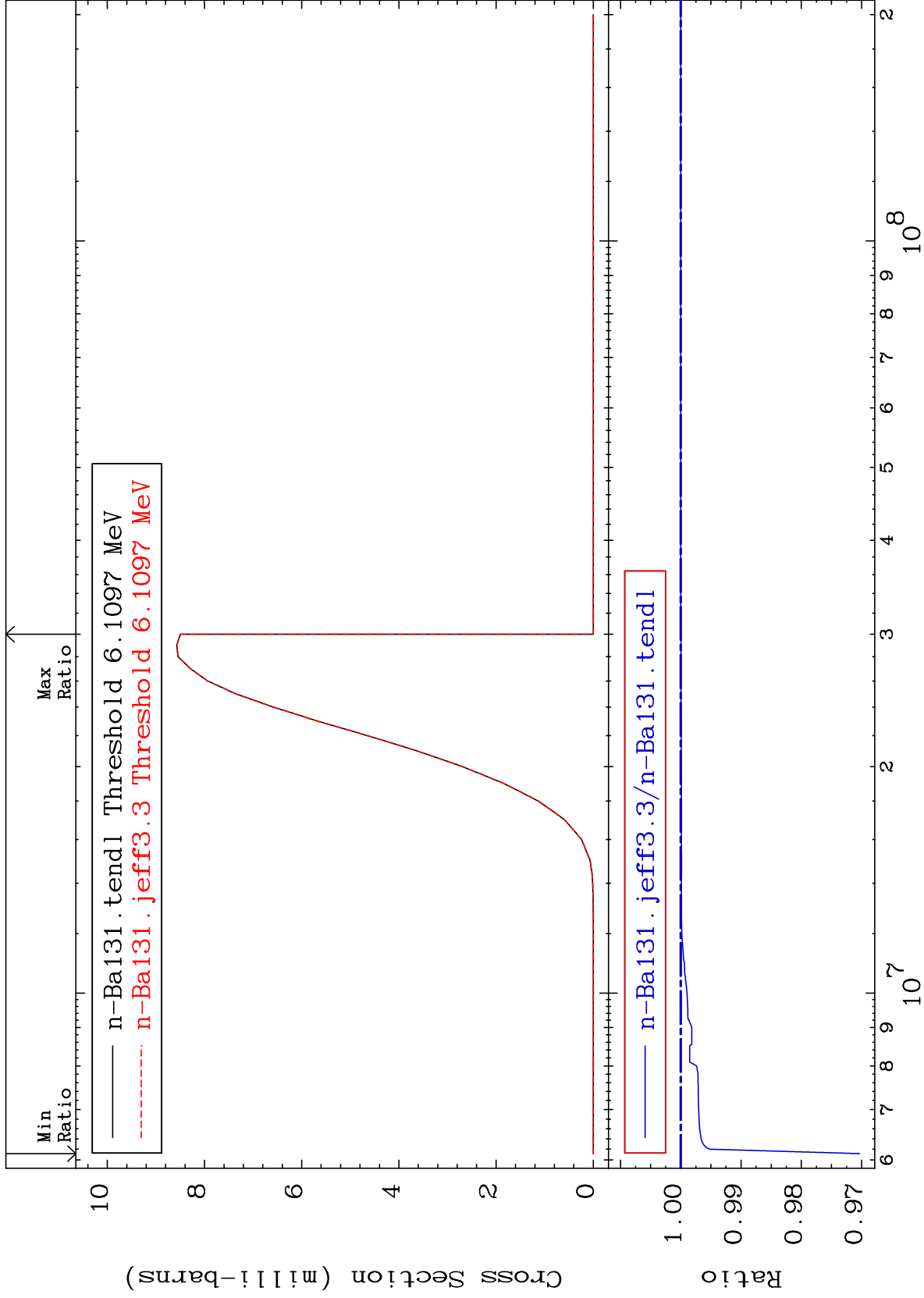
Incident Energy (eV)

56-Ba-131

MAT 5628

56-Ba-131

(n, t)
Cross Section
-2.965 To 0.000 %



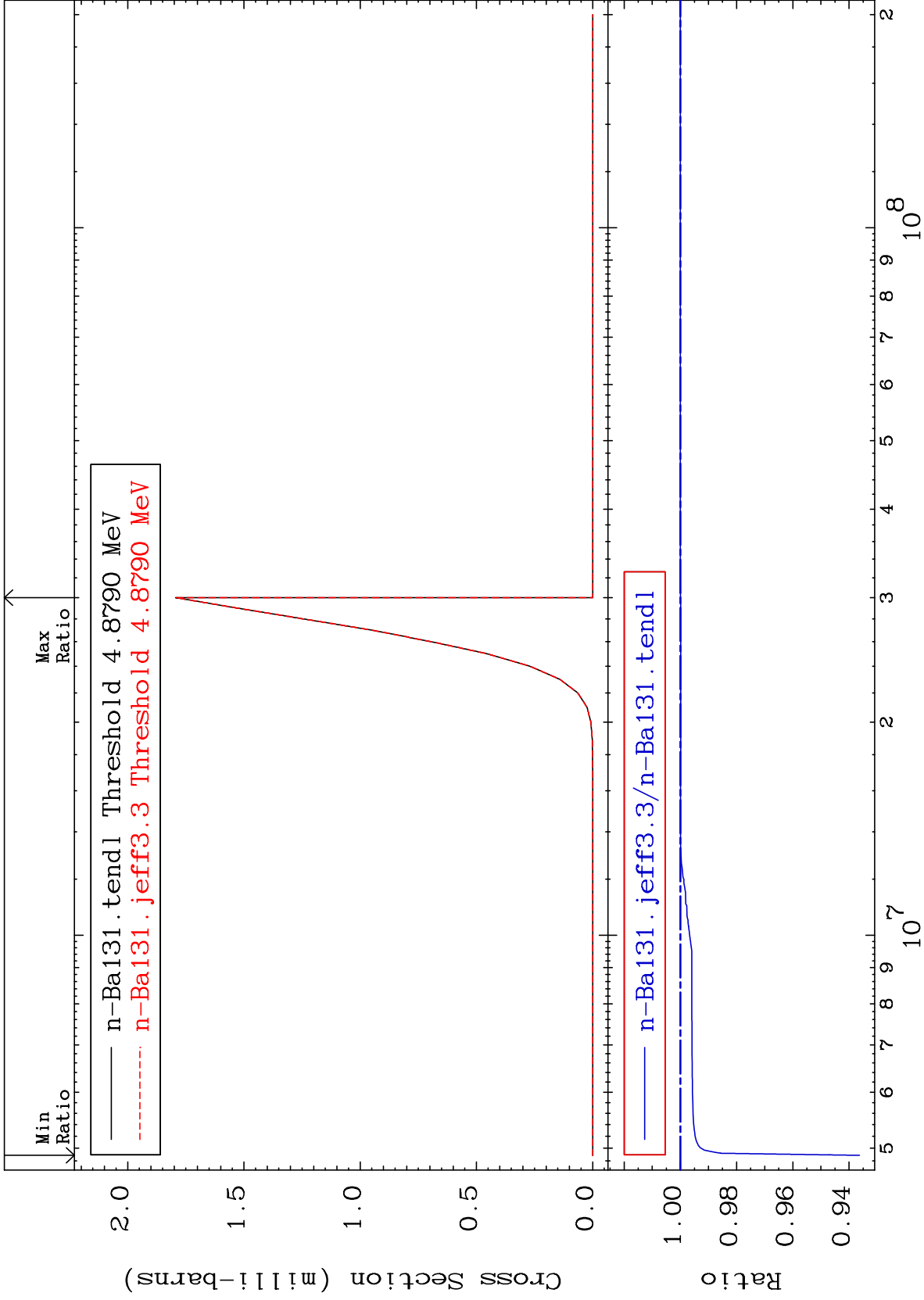
40

56-Ba-131

56-Ba-131

Cross Section

-6.369 To 0.000 %



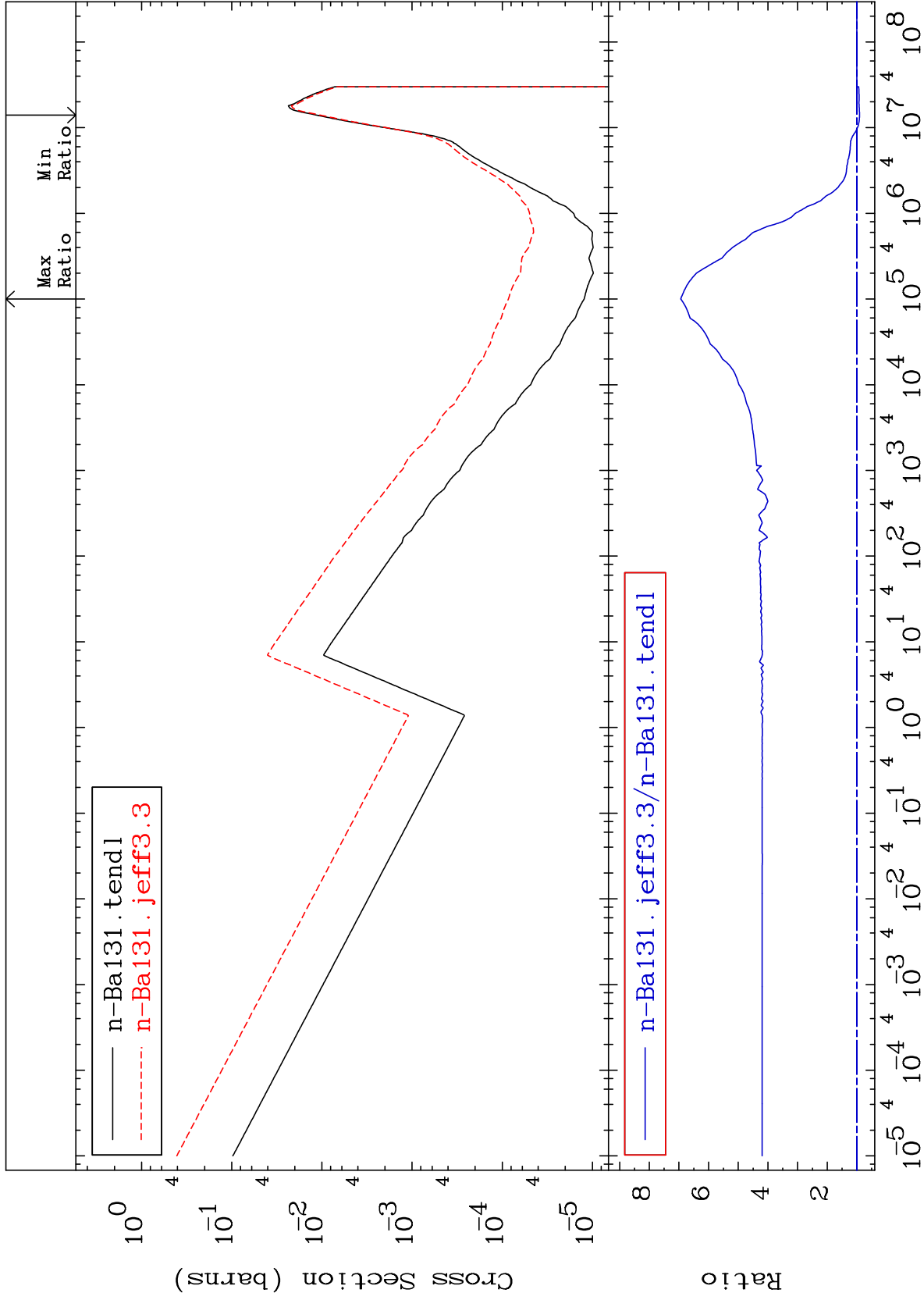
MAT 5628

(n, α)

56-Ba-131

Cross Section

-9.001 To 593.8 %



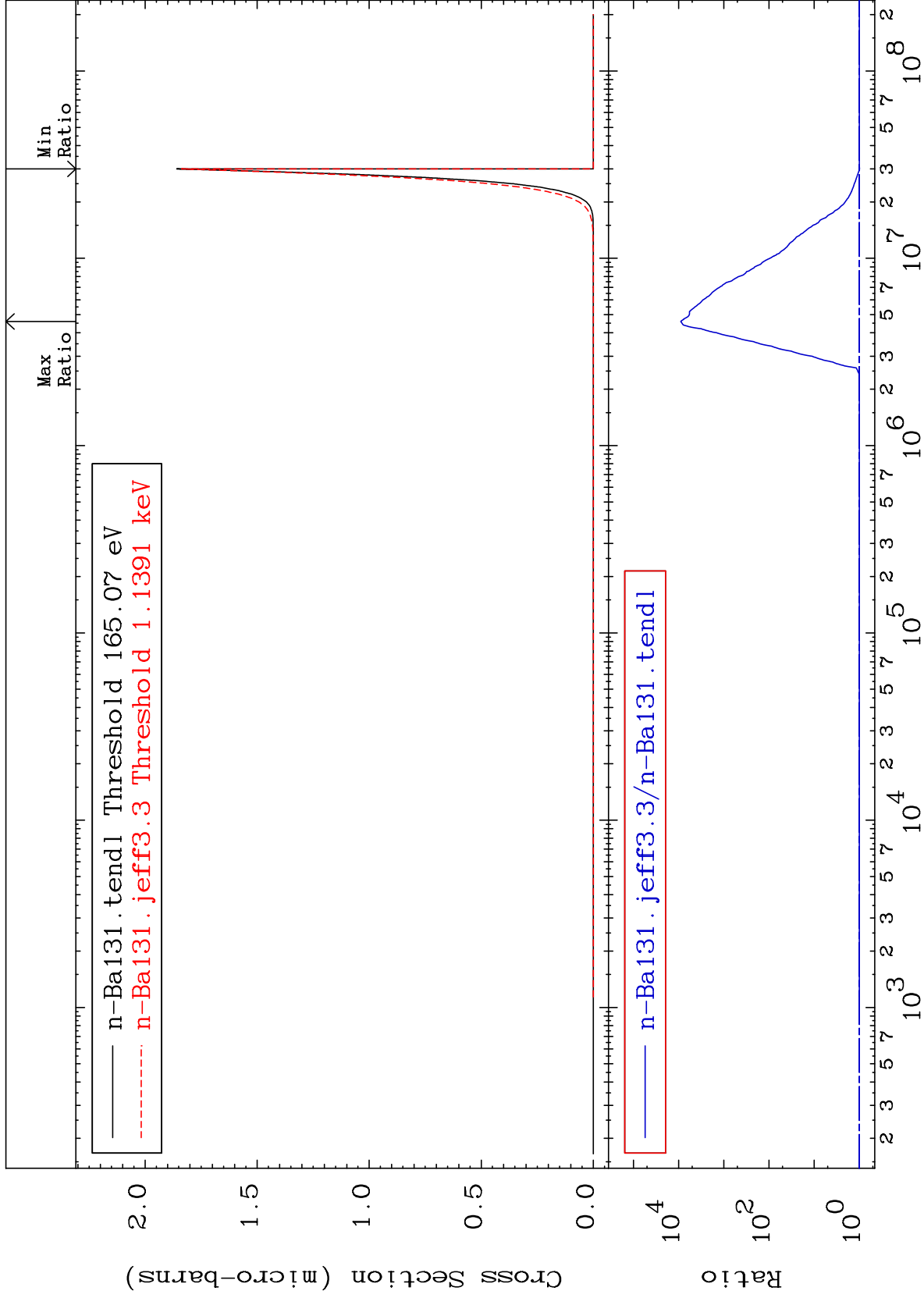
Incident Energy (eV)

56-Ba-131

42

Cross Section

-1.194 To 9999. %



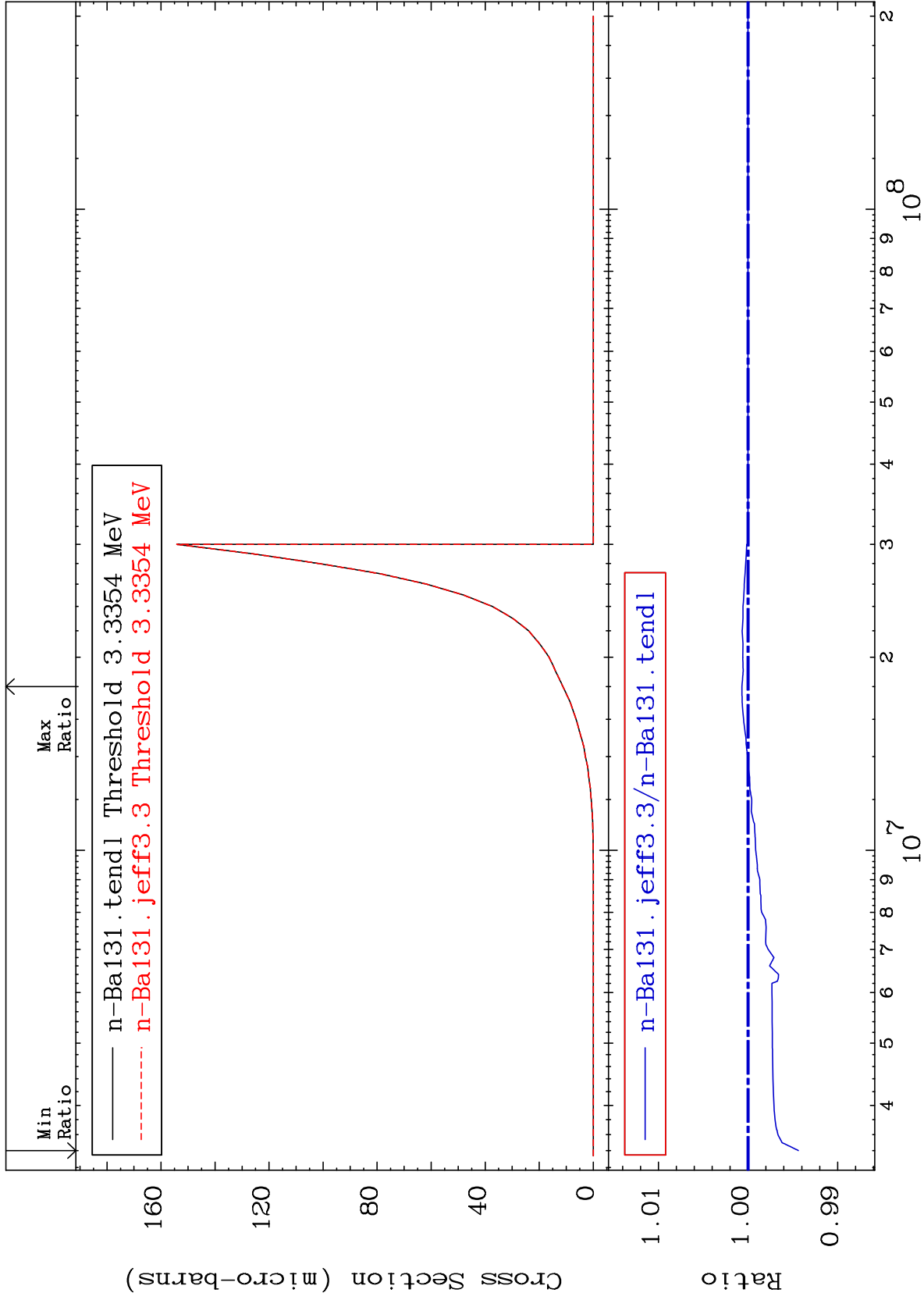
MAT 5628

(n,2p)

56-Ba-131

Cross Section

-0.562 To 0.069 %



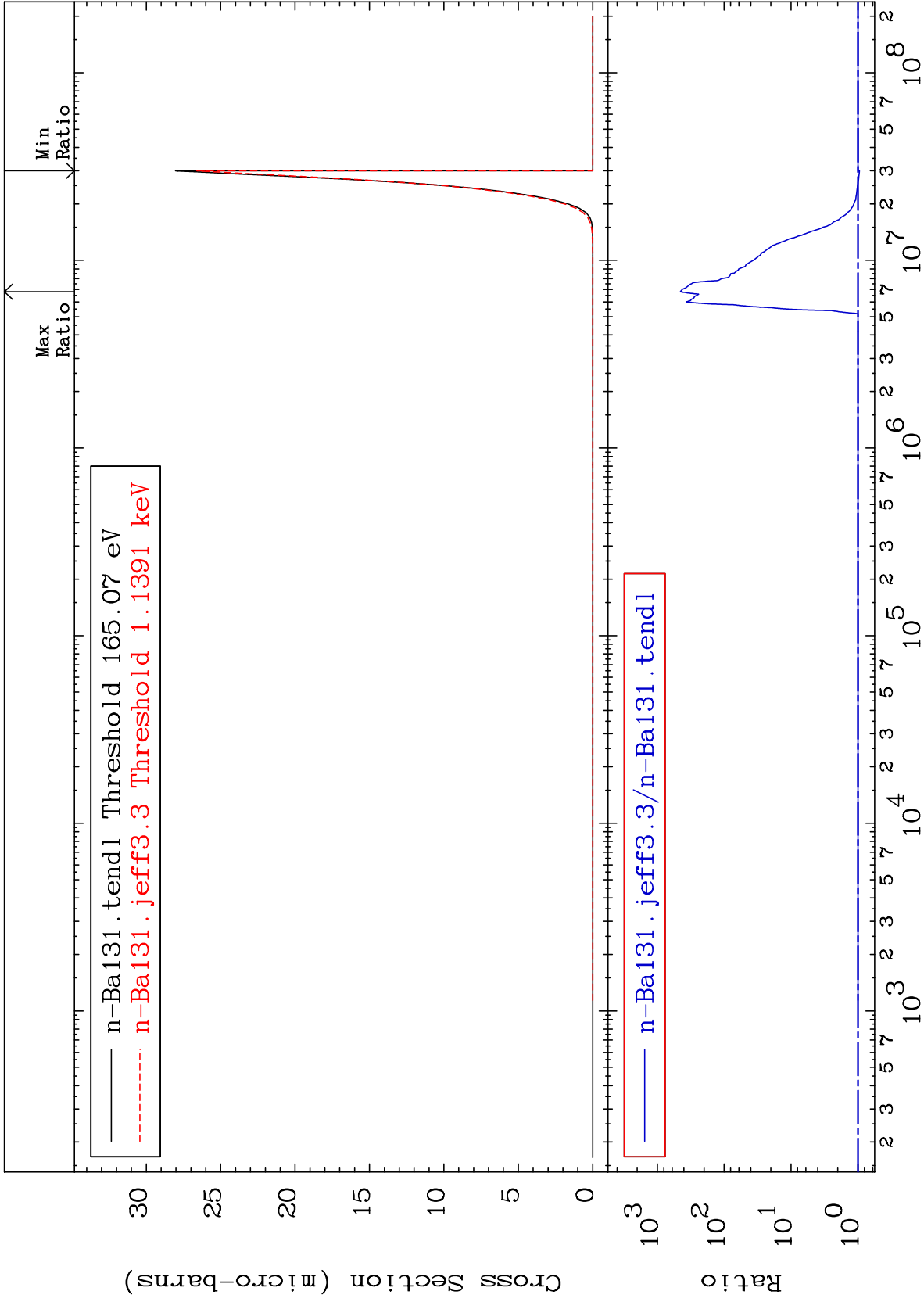
MAT 5628

(n, p) α

56-Ba-131

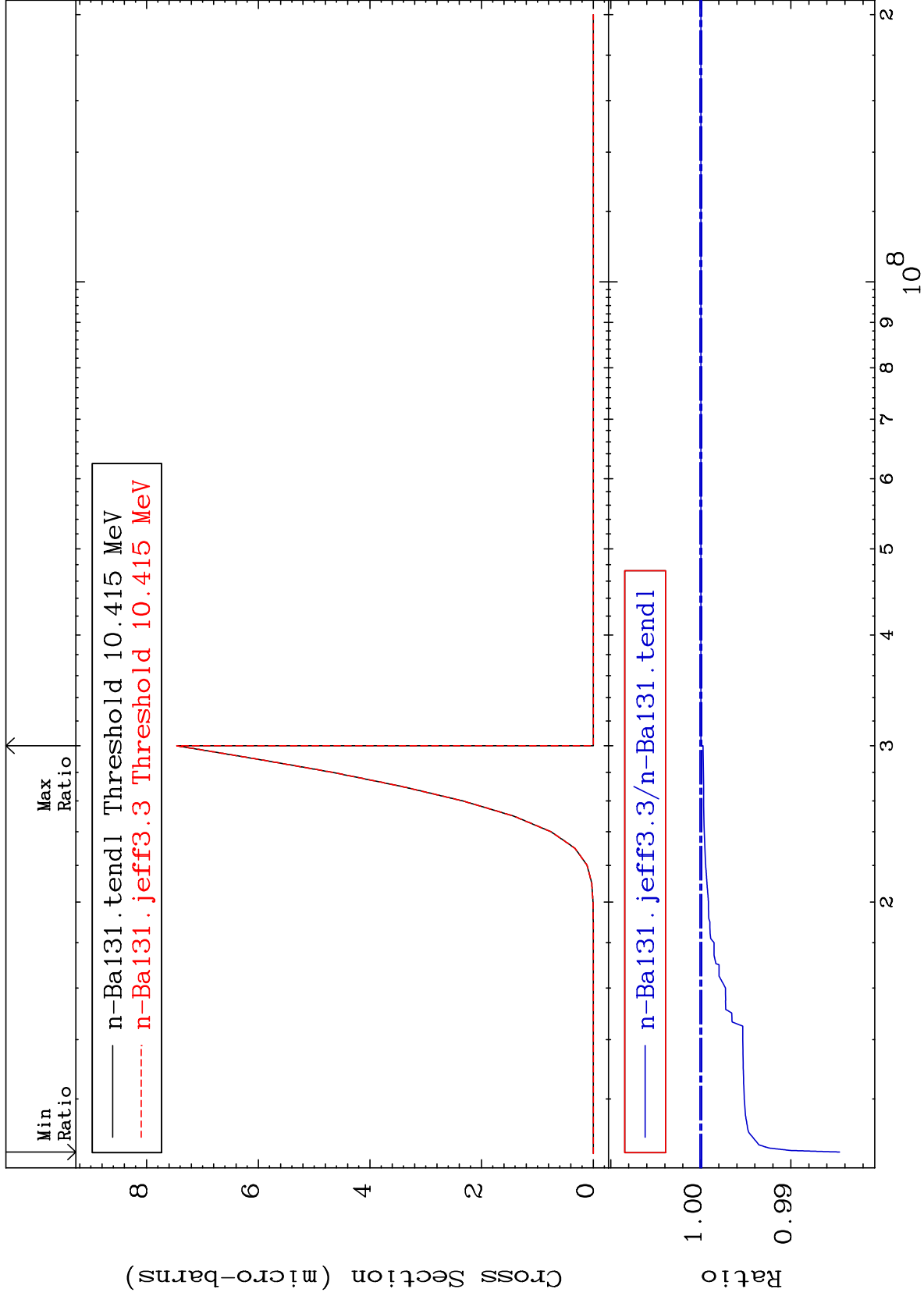
Cross Section

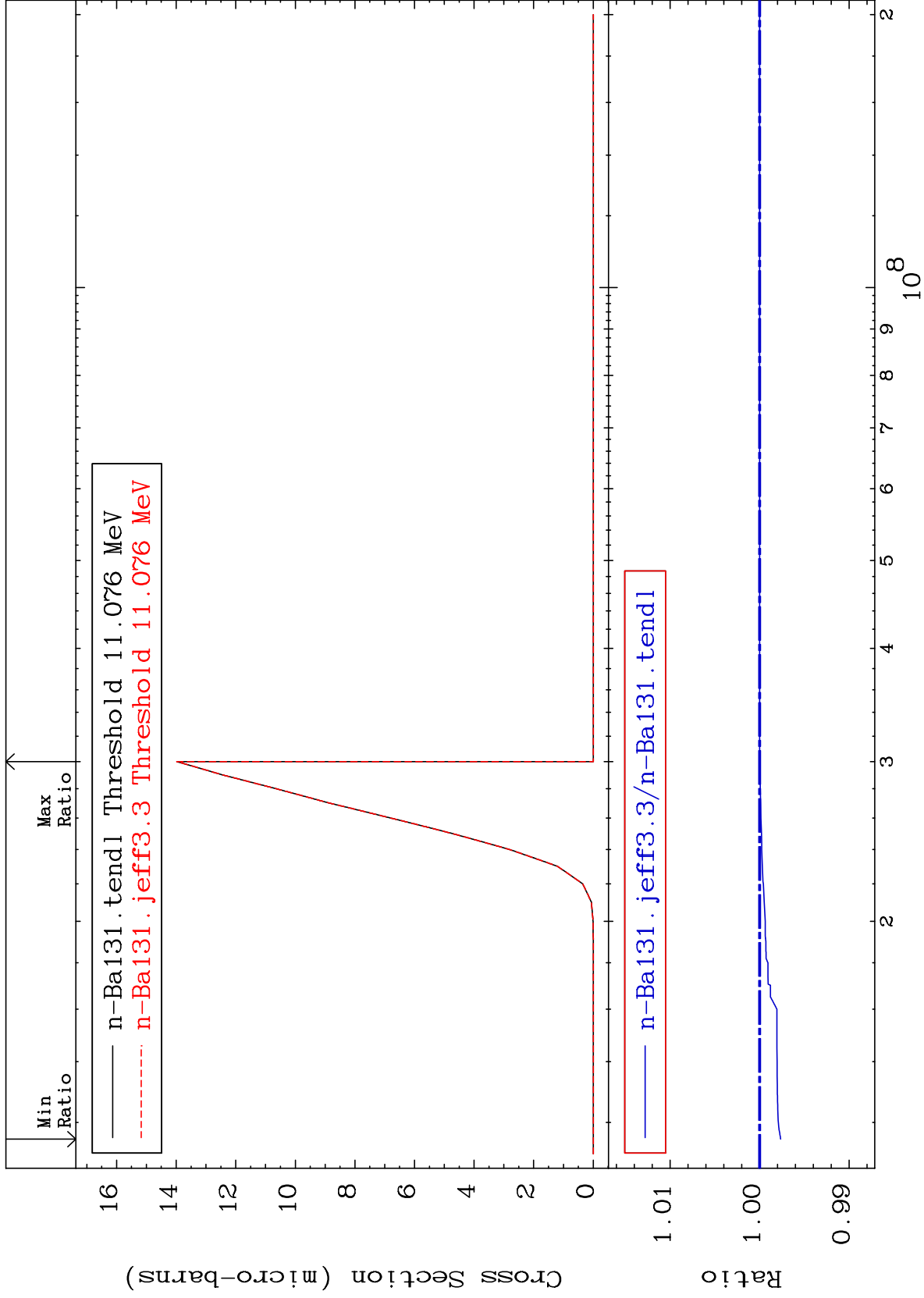
-5.141 To 9999. %

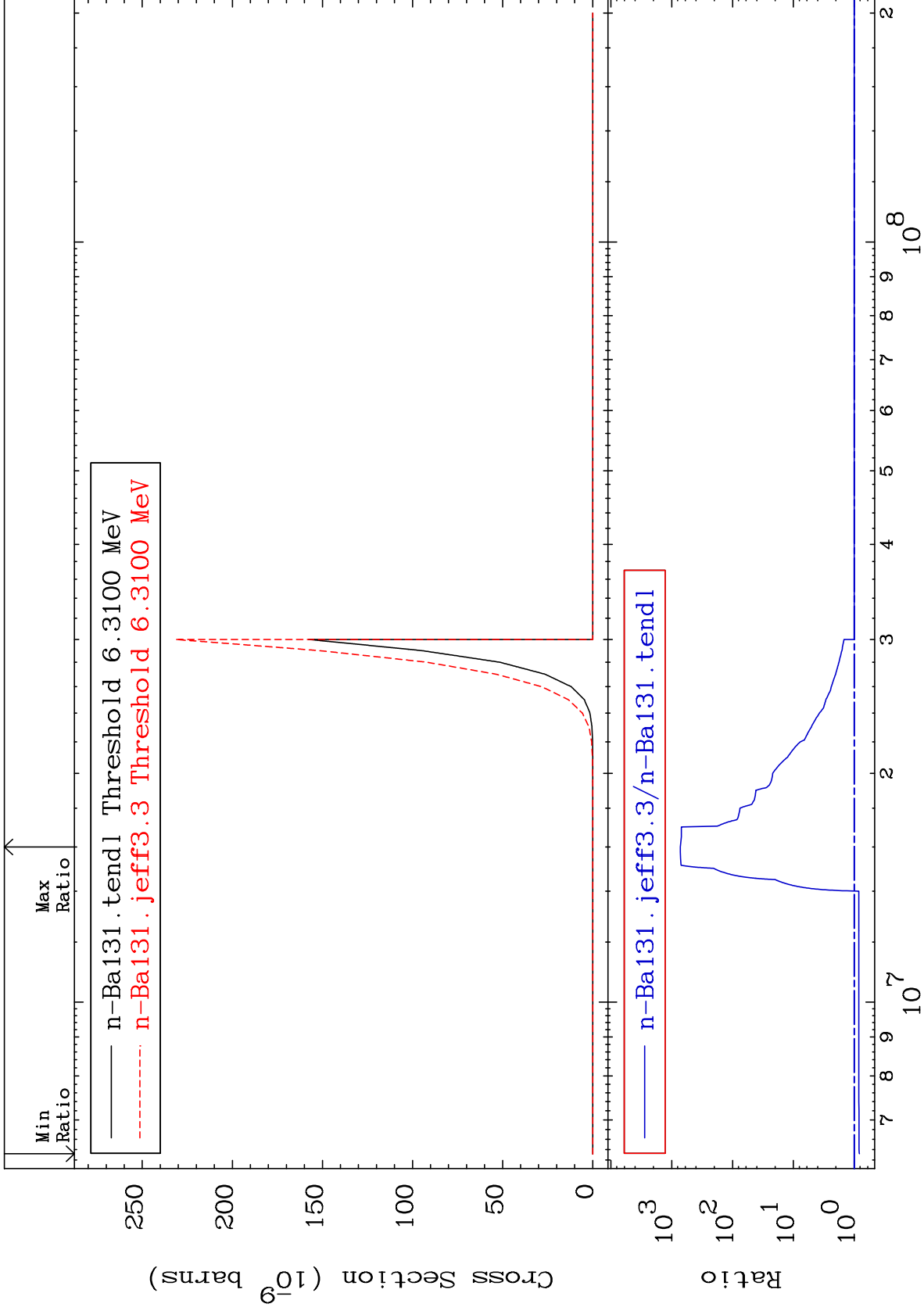


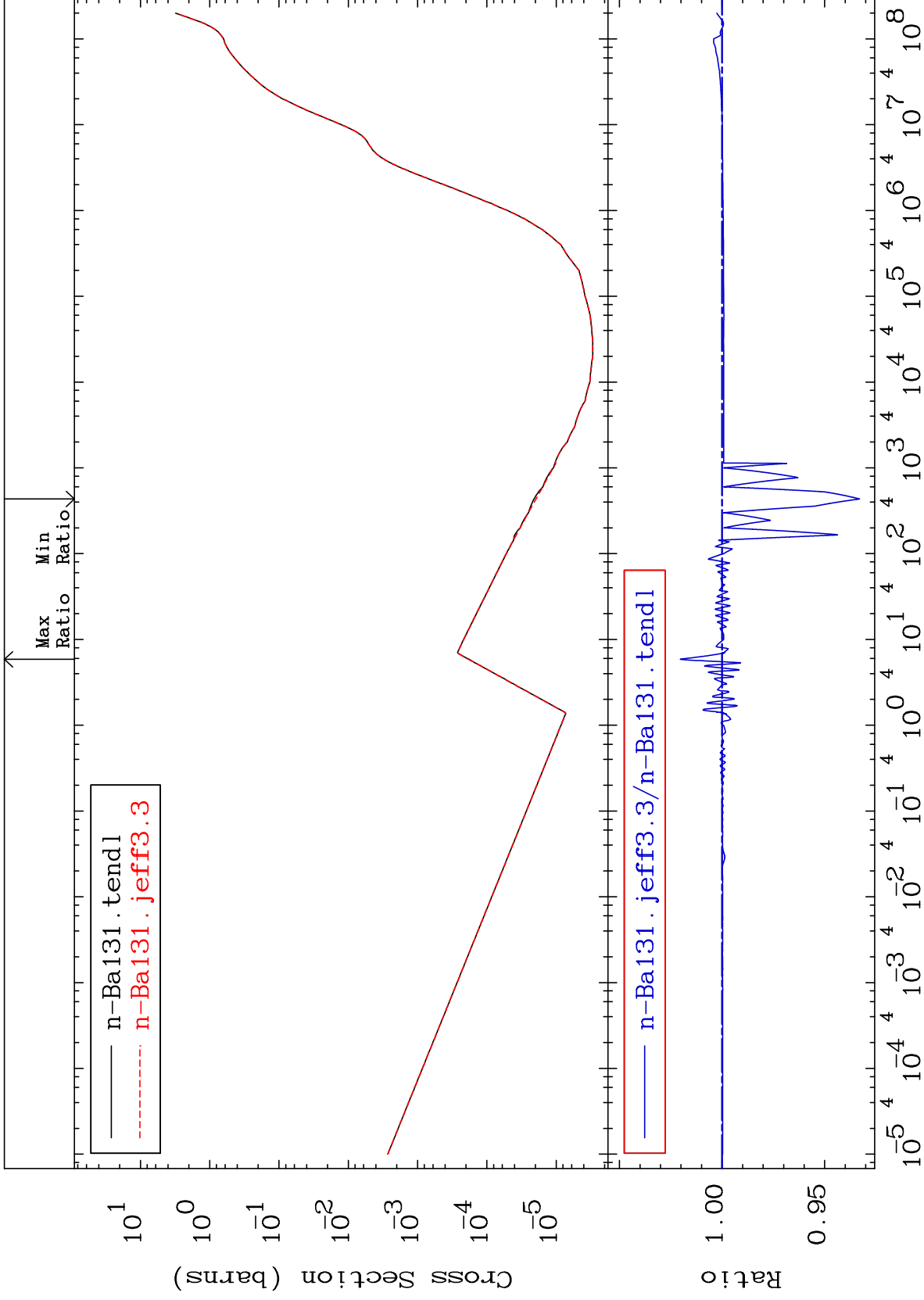
Cross Section

-1.539 To 0.000 %





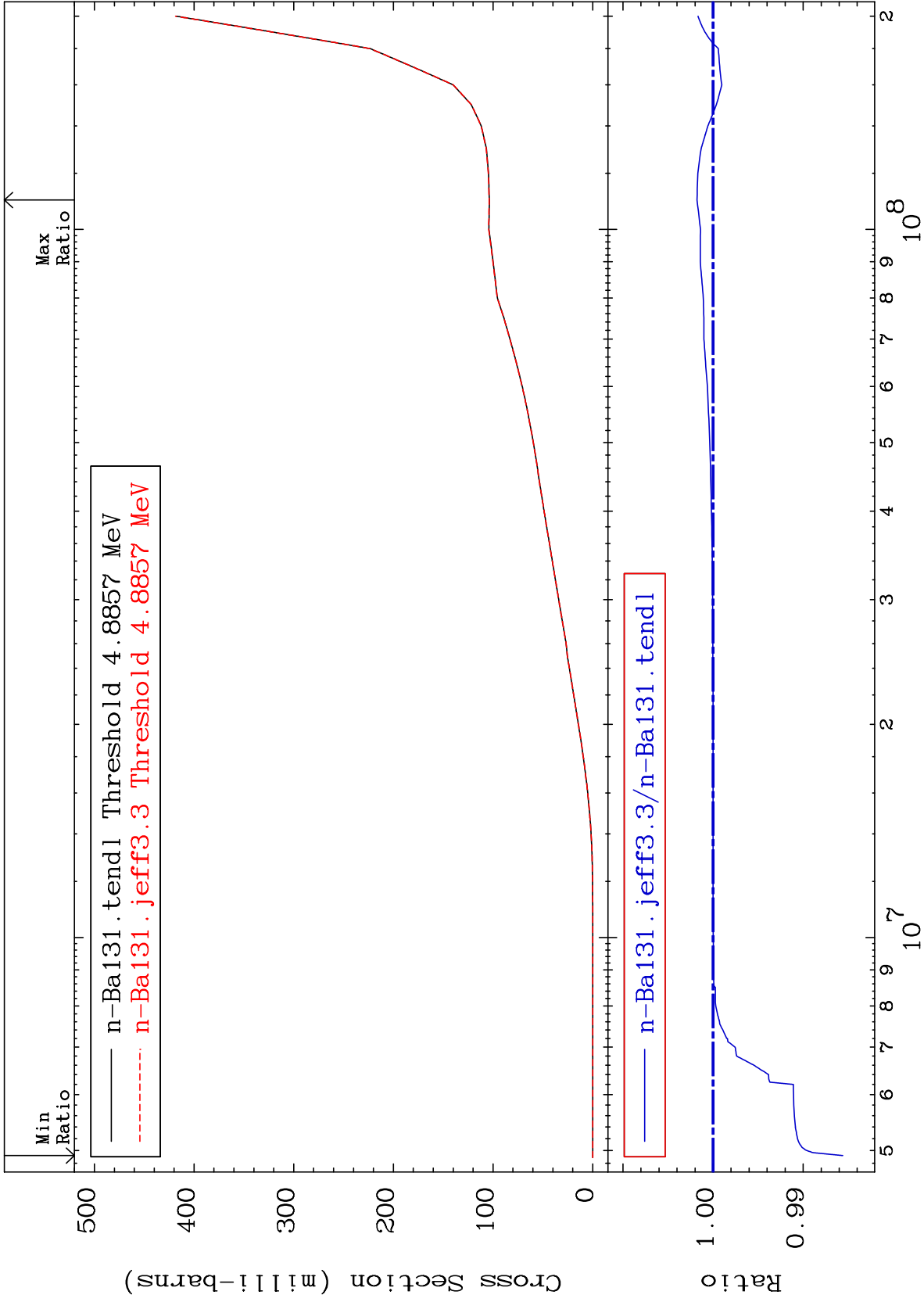




MAT 5628

Deuterium Production
Cross Section

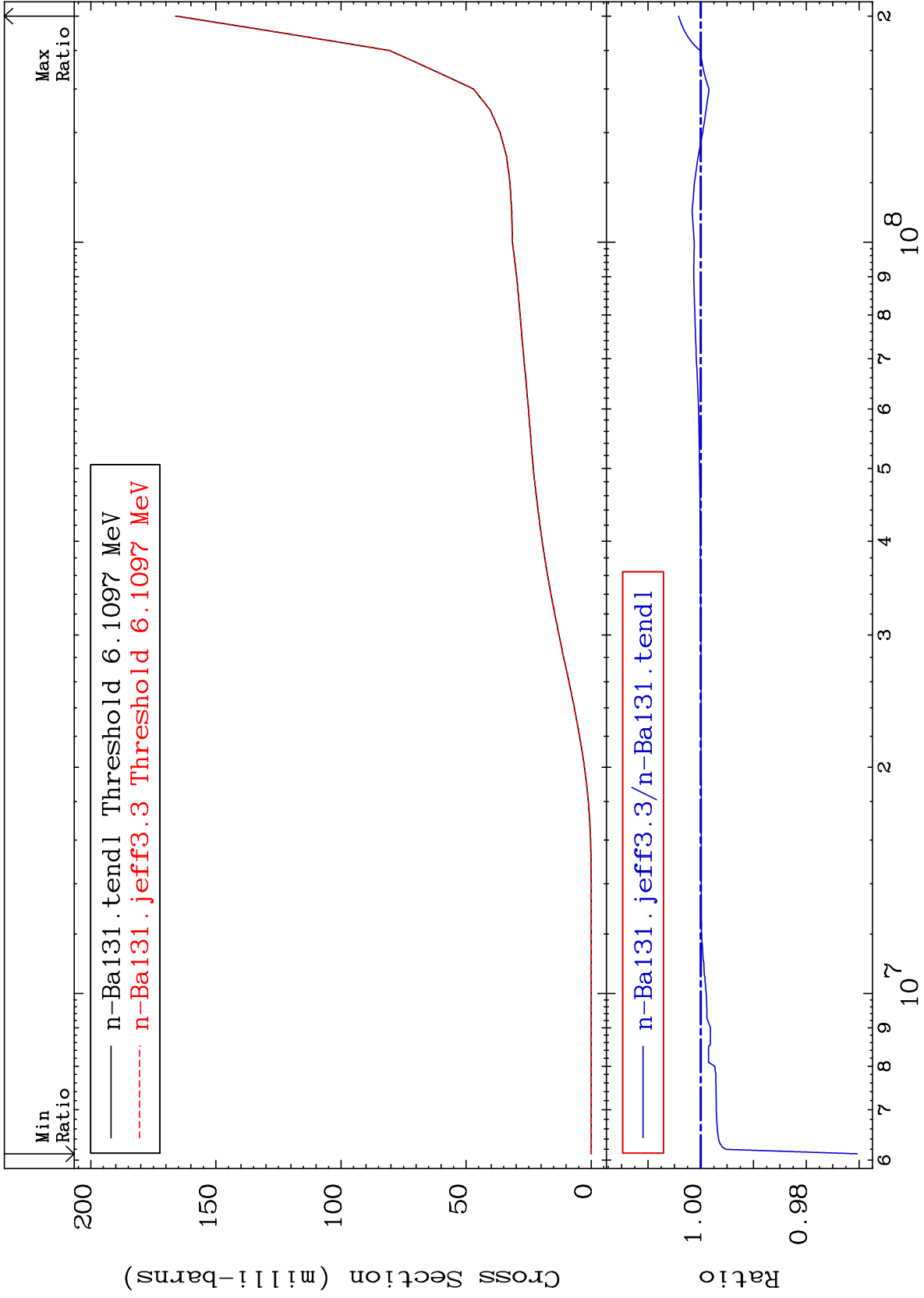
56-Ba-131
-1.440 To 0.179 %



MAT 5628

Tritium Production
Cross Section

56-Ba-131
-2.965 To 0.419 %



51

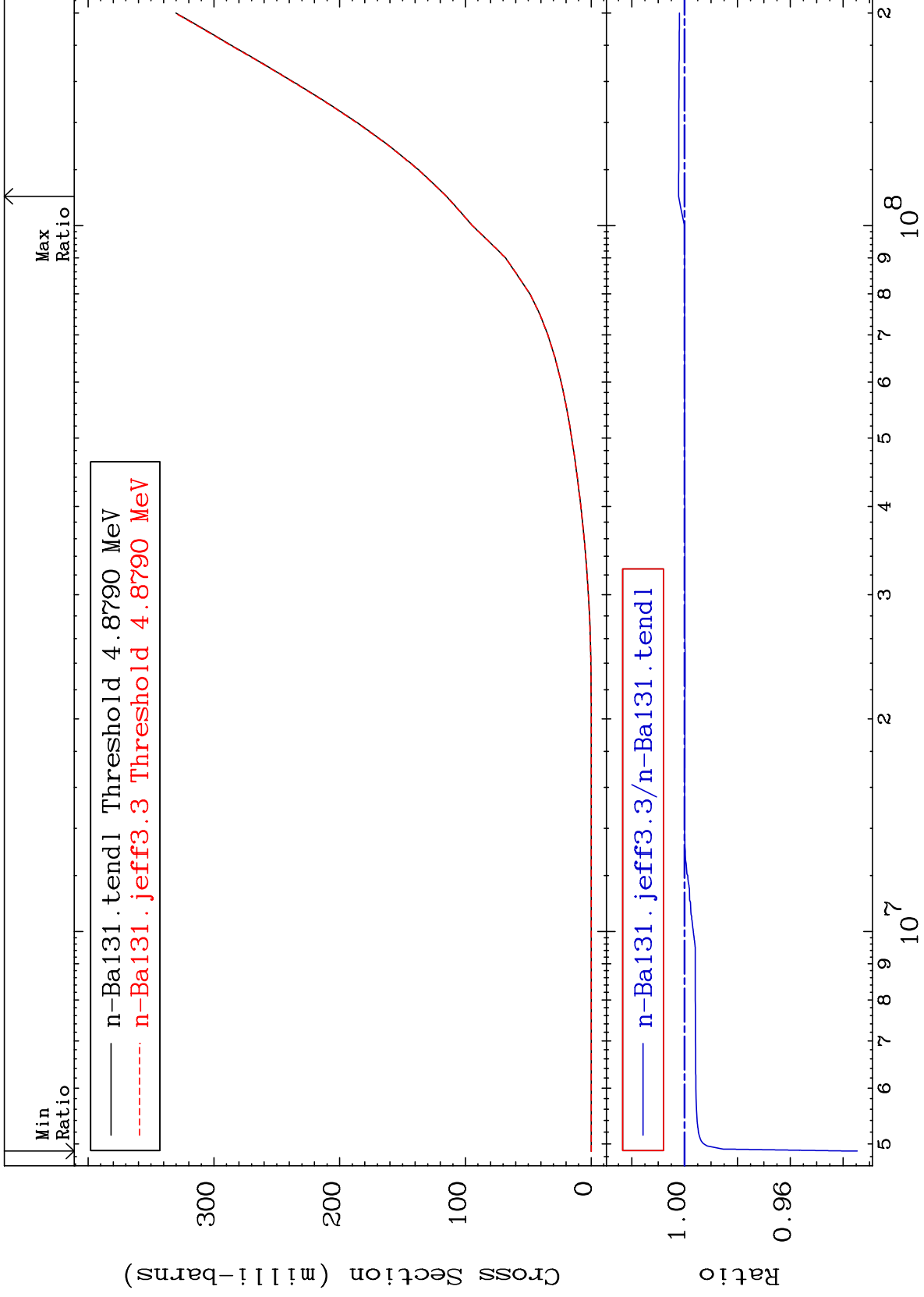
Incident Energy (eV)

56-Ba-131

MAT 5628

He-3 Production
Cross Section

56-Ba-131
-6.538 To 0.224 %



52

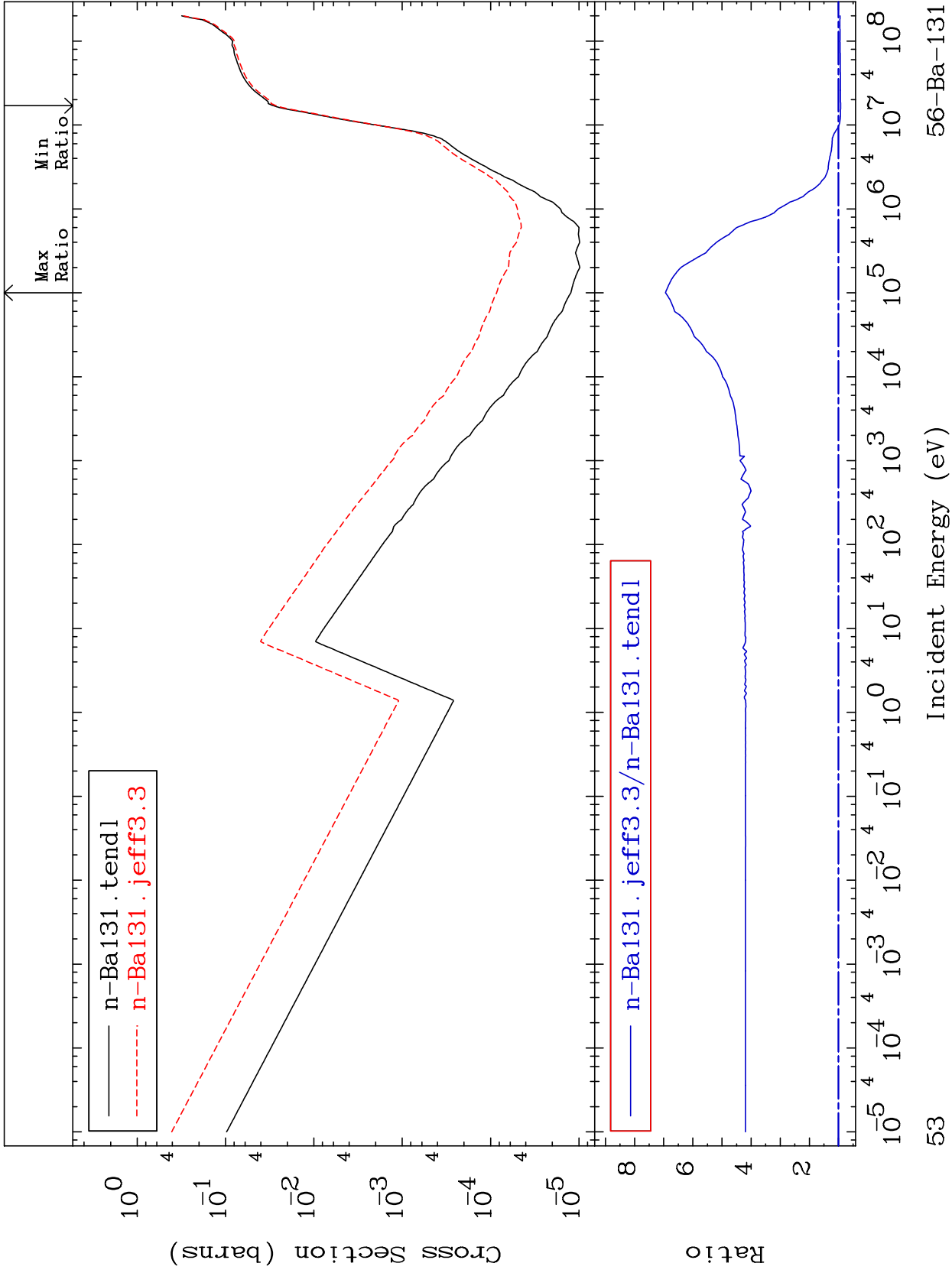
Incident Energy (eV)

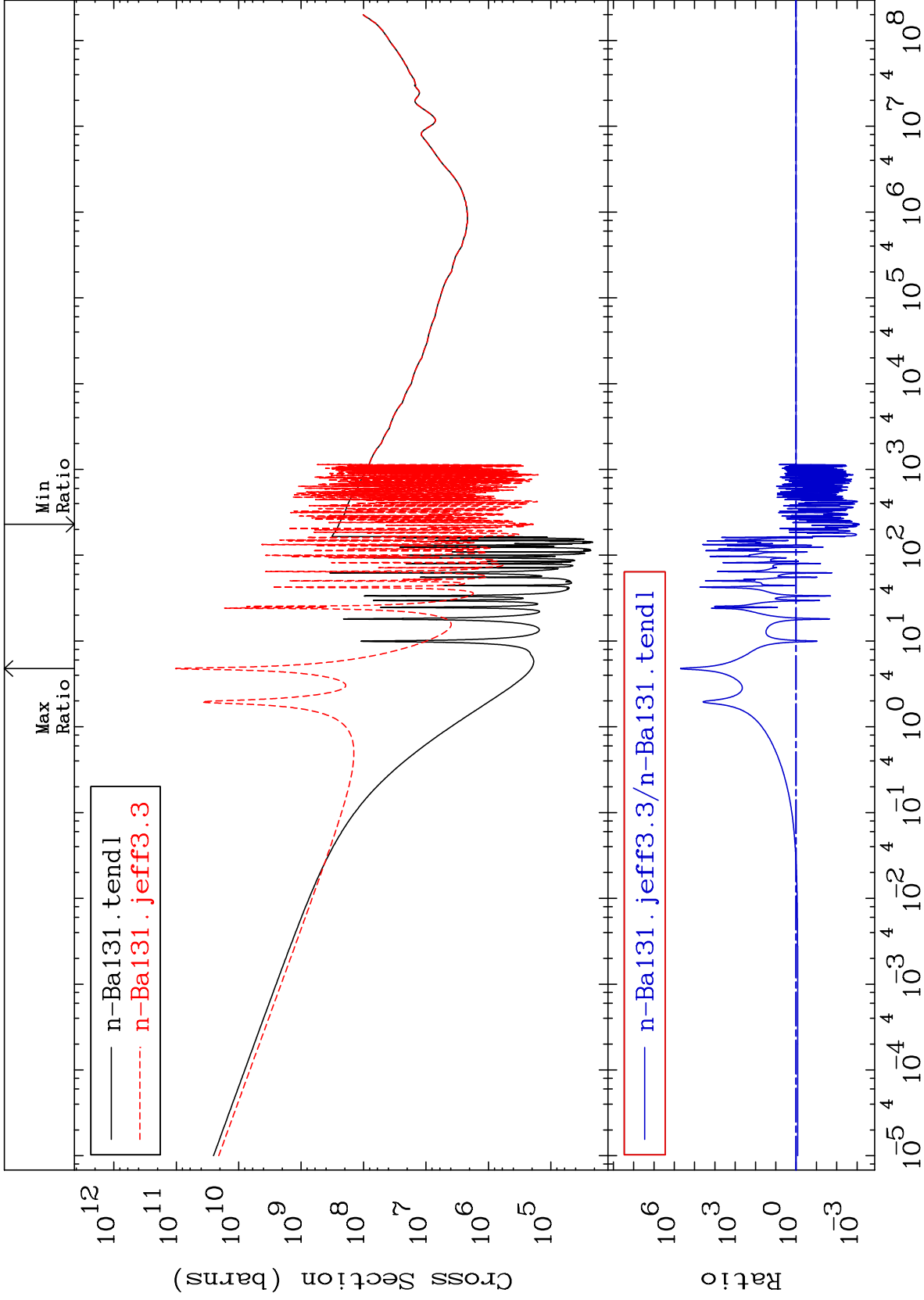
56-Ba-131

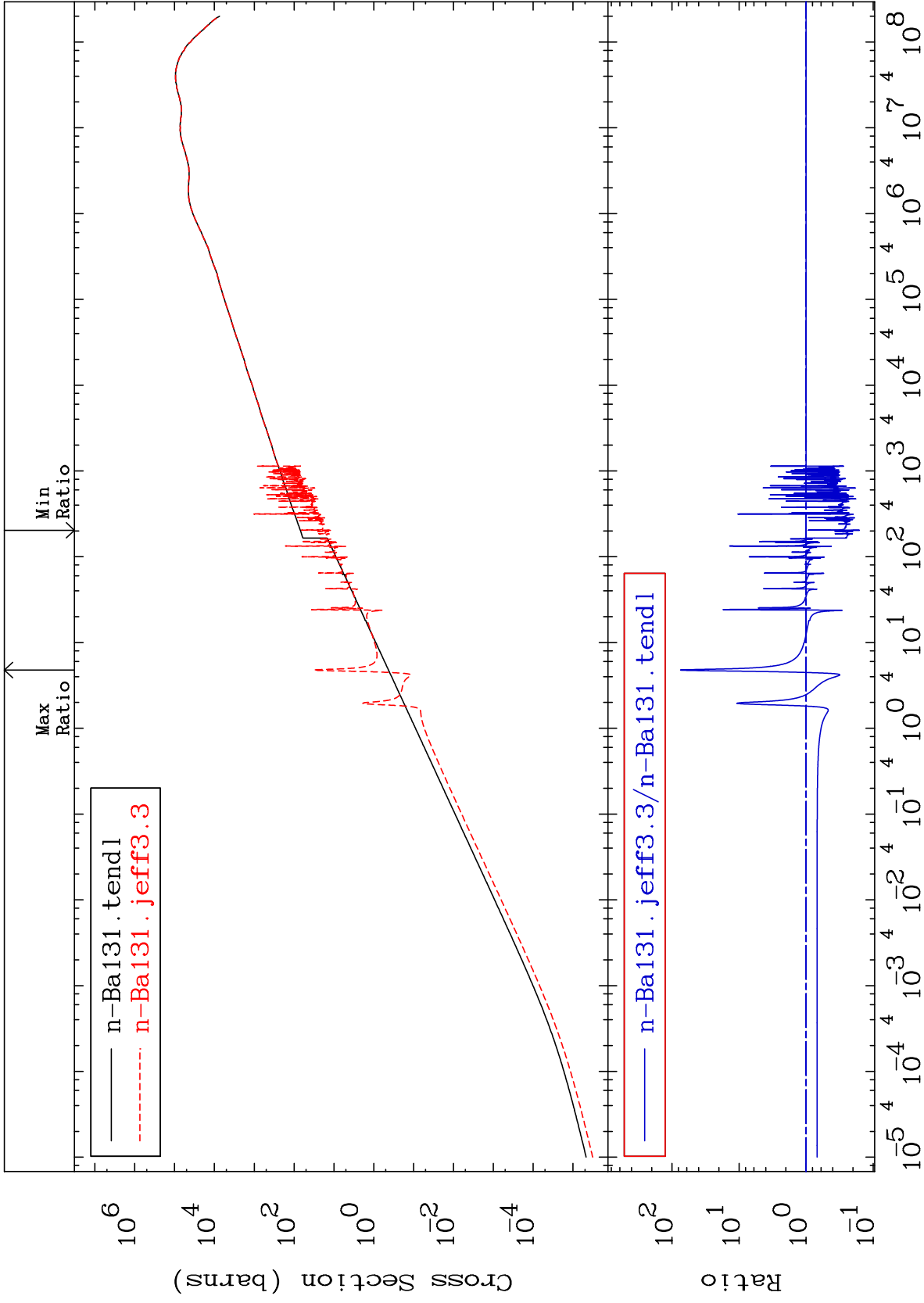
MAT 5628

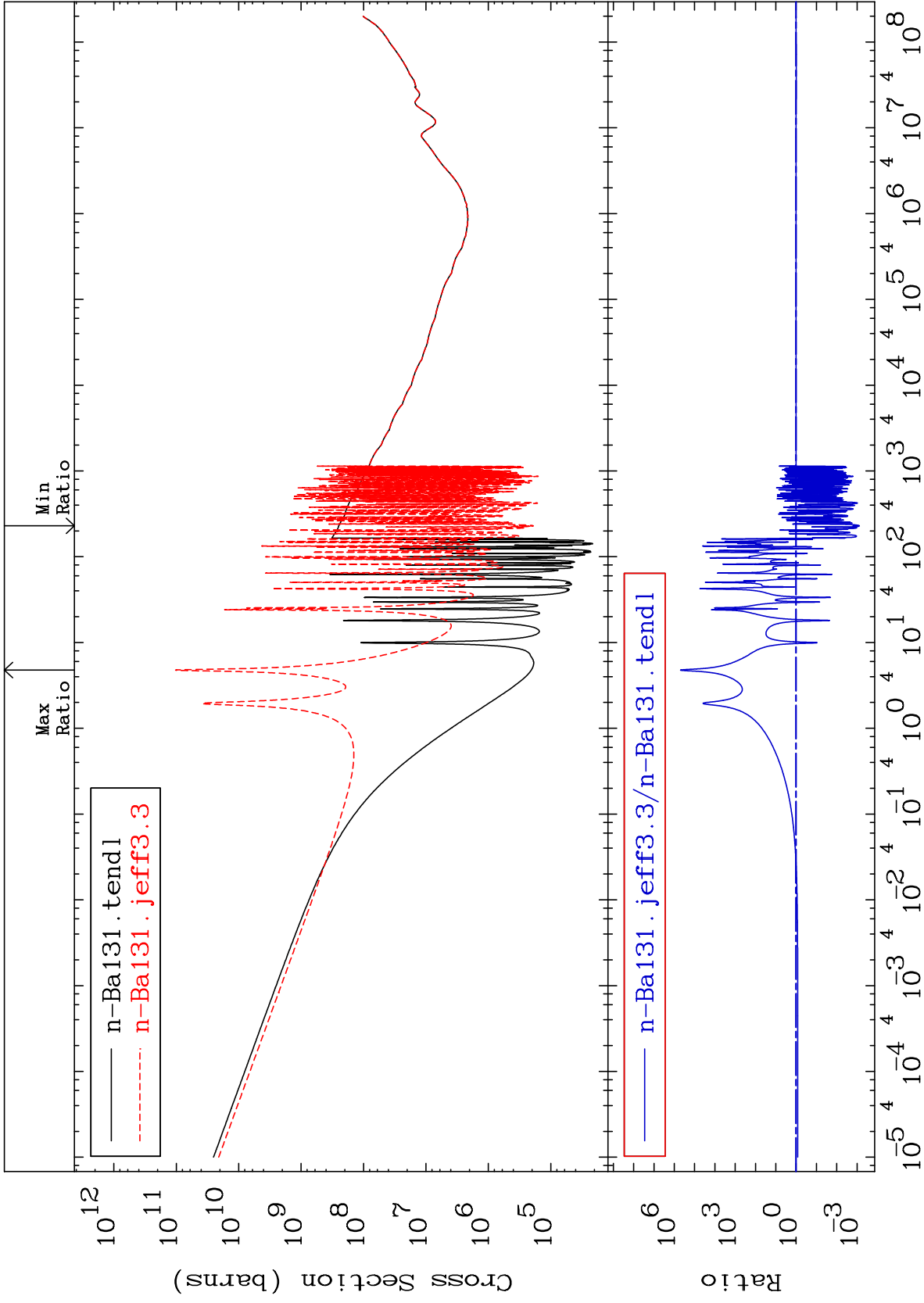
He-4 Production
Cross Section

56-Ba-131
-7.376 To 593.8 %





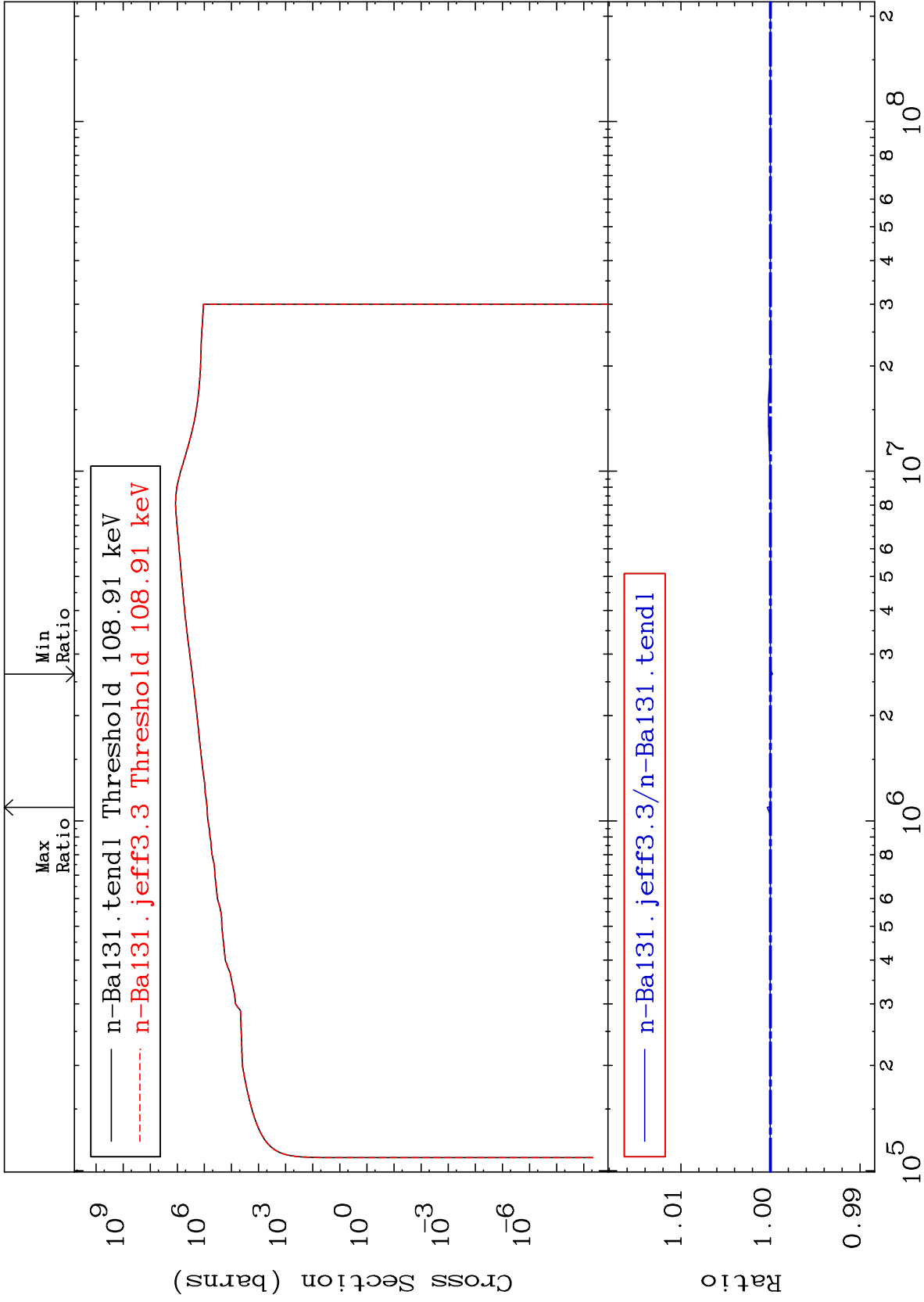




MAT 5628

Kerma inelastic (mt51-91)
Cross Section

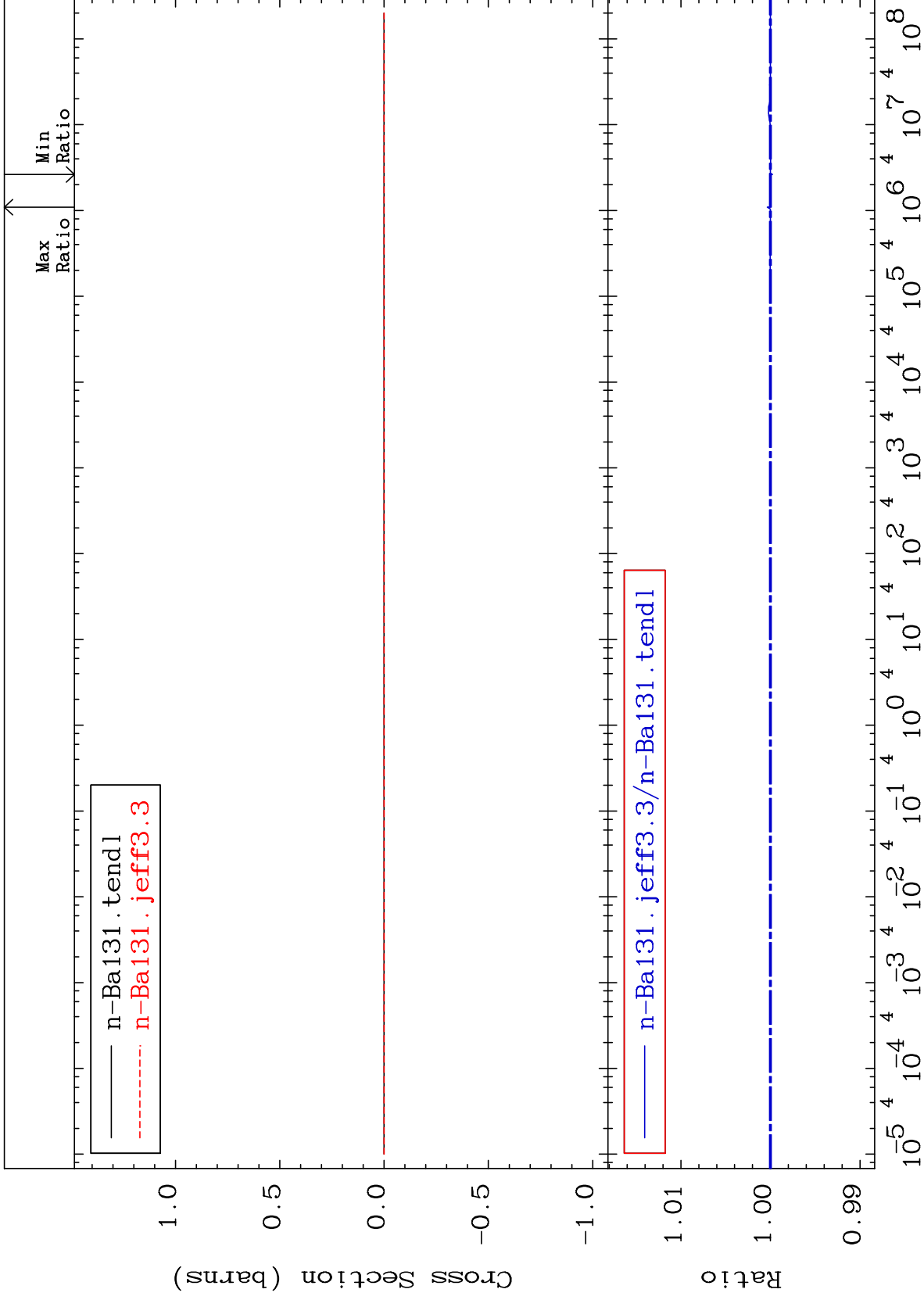
56-Ba-131
-0.023 To 0.035 %

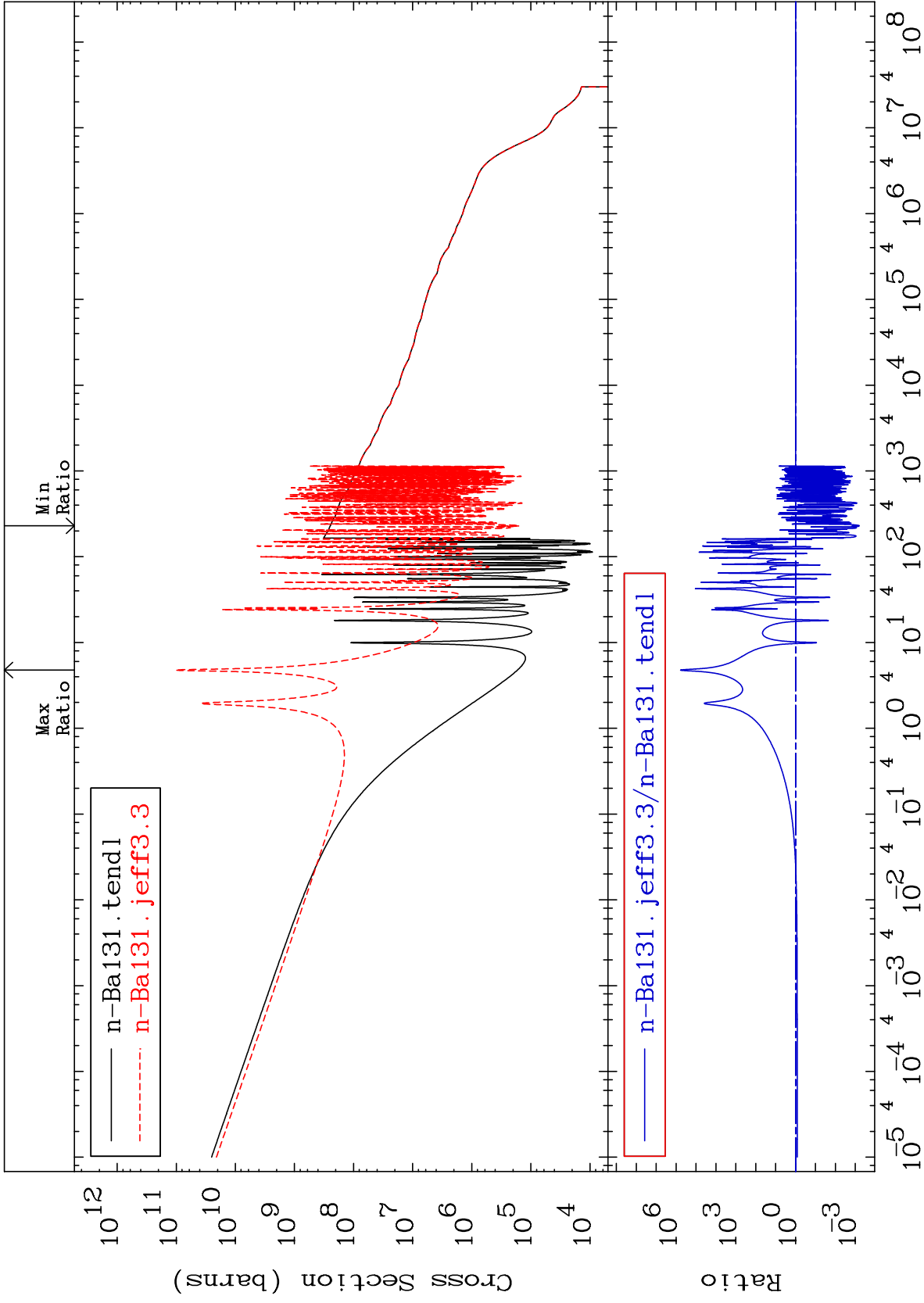


57

Incident Energy (eV)

56-Ba-131



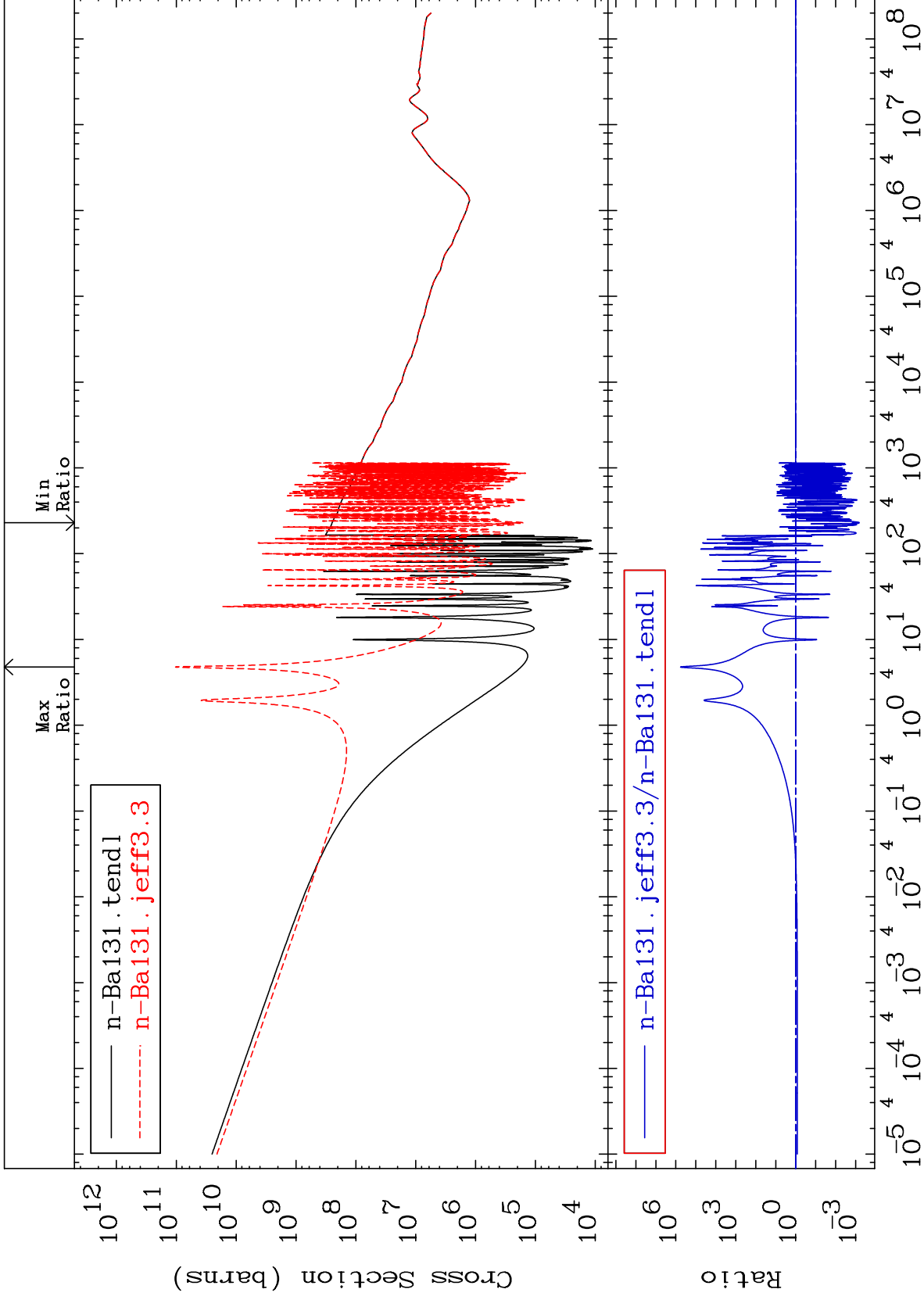


MAT 5628

Total photon (eV-barns)
Cross Section

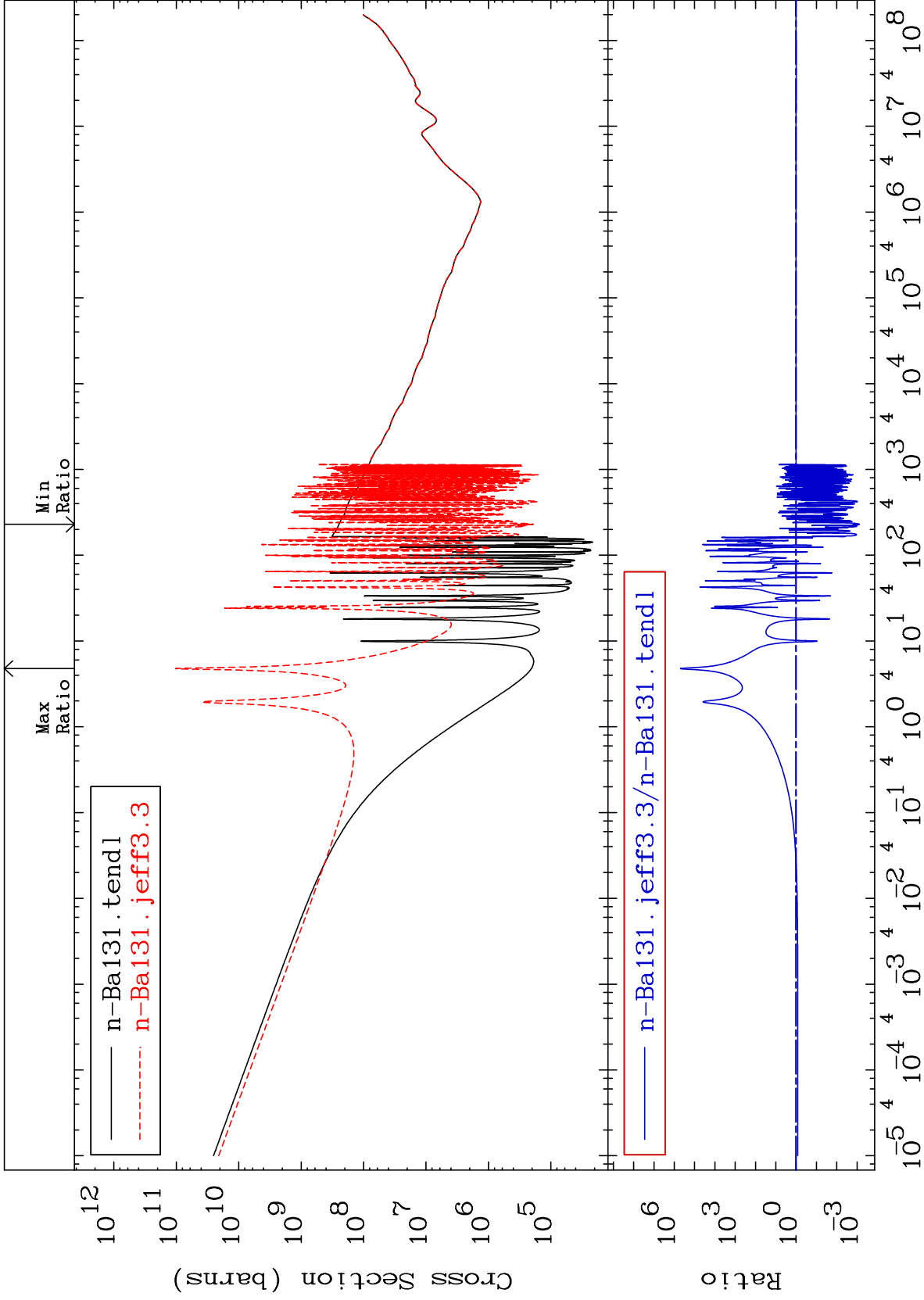
56-Ba-131

-99.94 To 9999. %



60

56-Ba-131



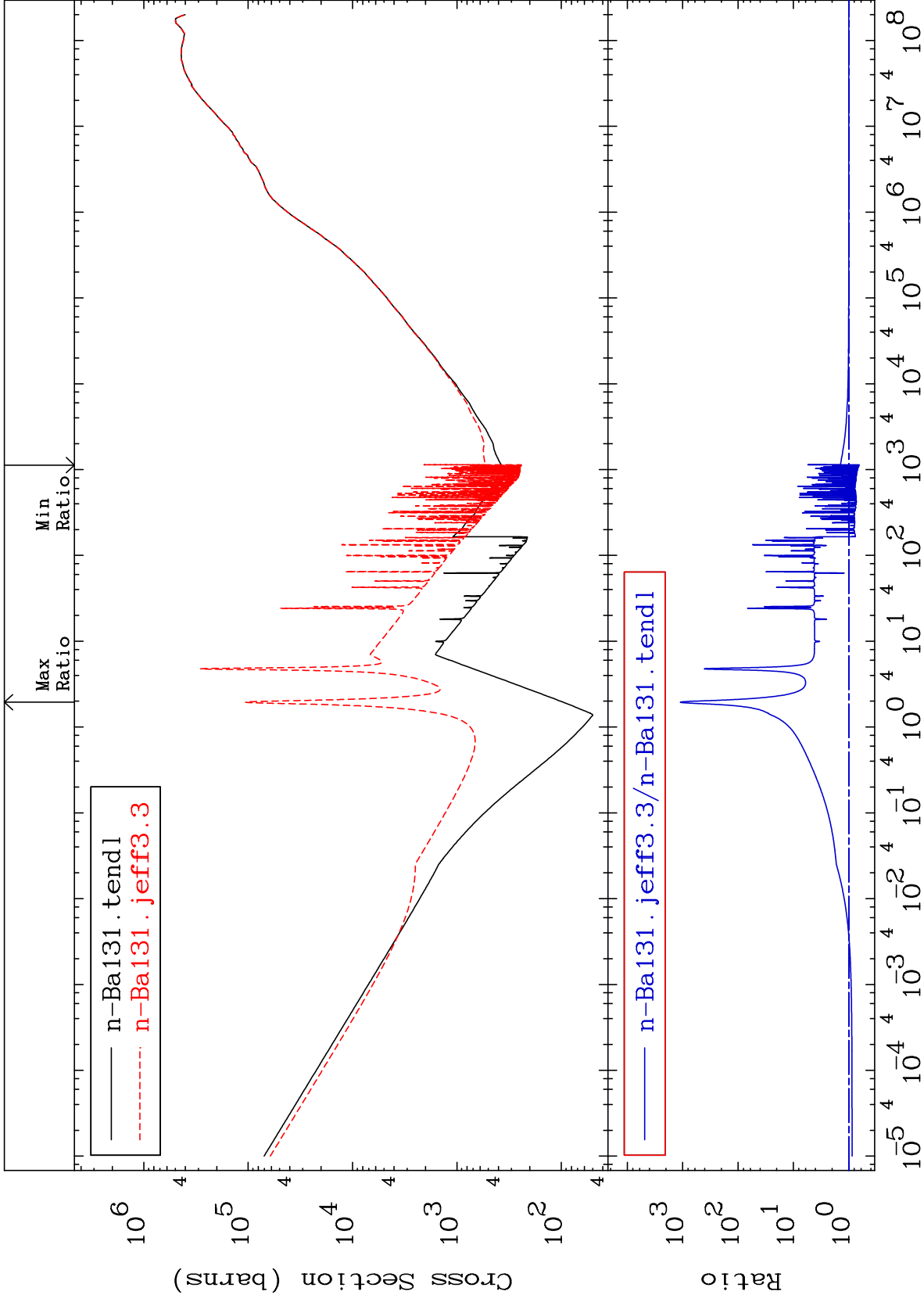
MAT 5628

Dpa total (eV-barns)

56-Ba-131

-35.80 To 9999. %

Cross Section



62

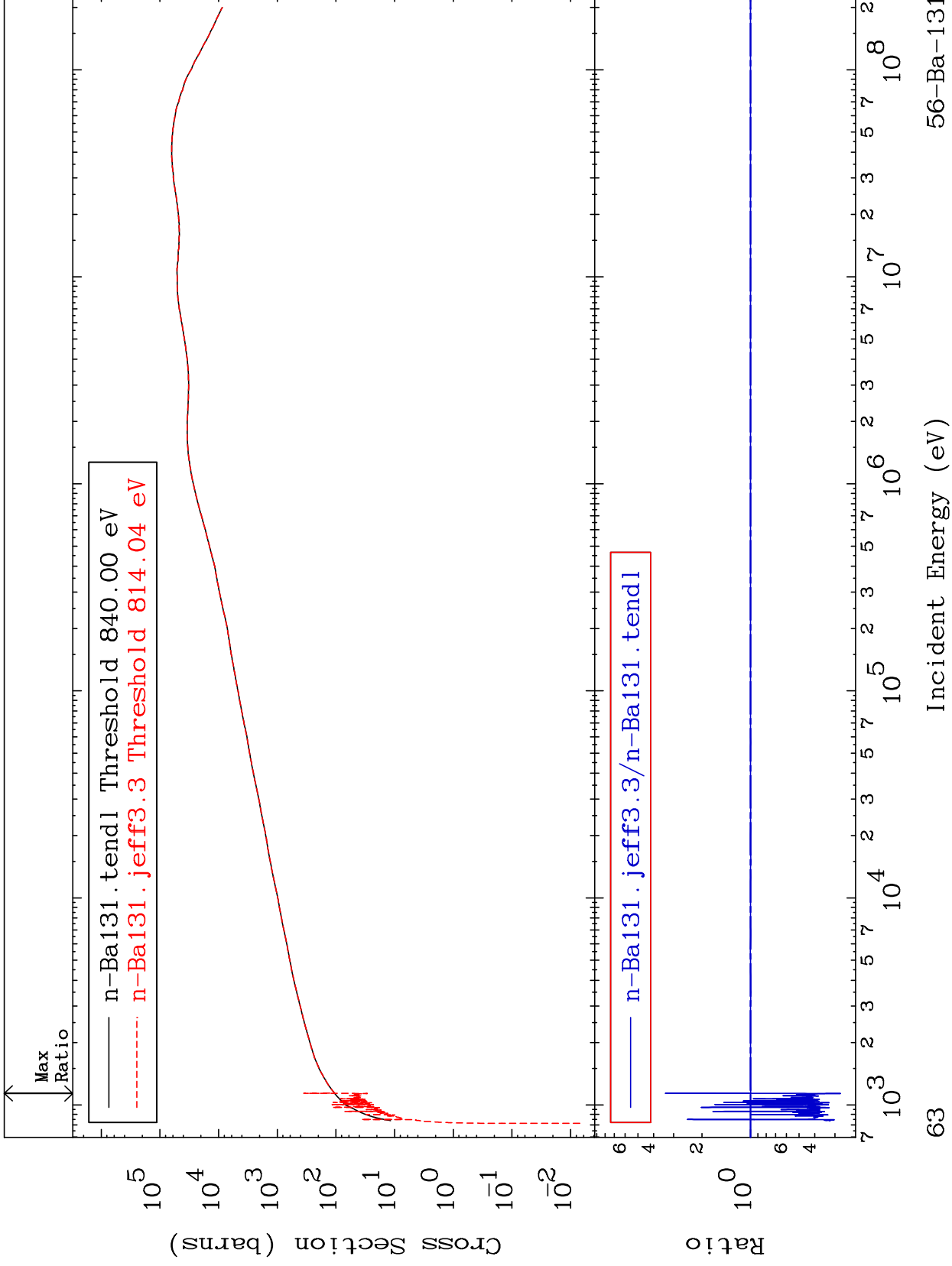
Incident Energy (eV)

56-Ba-131

MAT 5628

Dpa elastic (mt2)
Cross Section

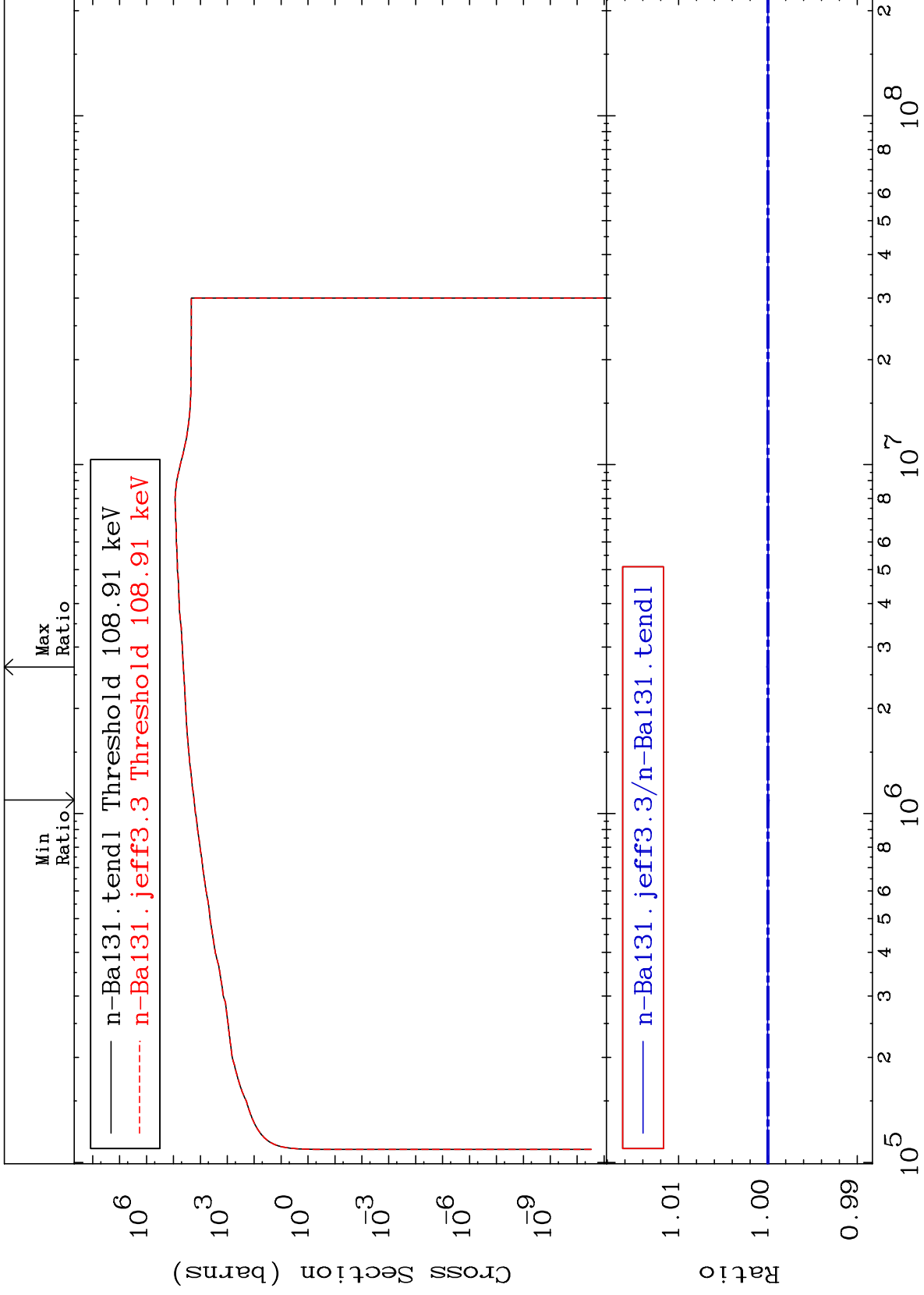
56-Ba-131
-72.39 To 237.1 %



MAT 5628

Dpa inelastic (mt51-91)
Cross Section

56-Ba-131
-0.014 To 0.014 %

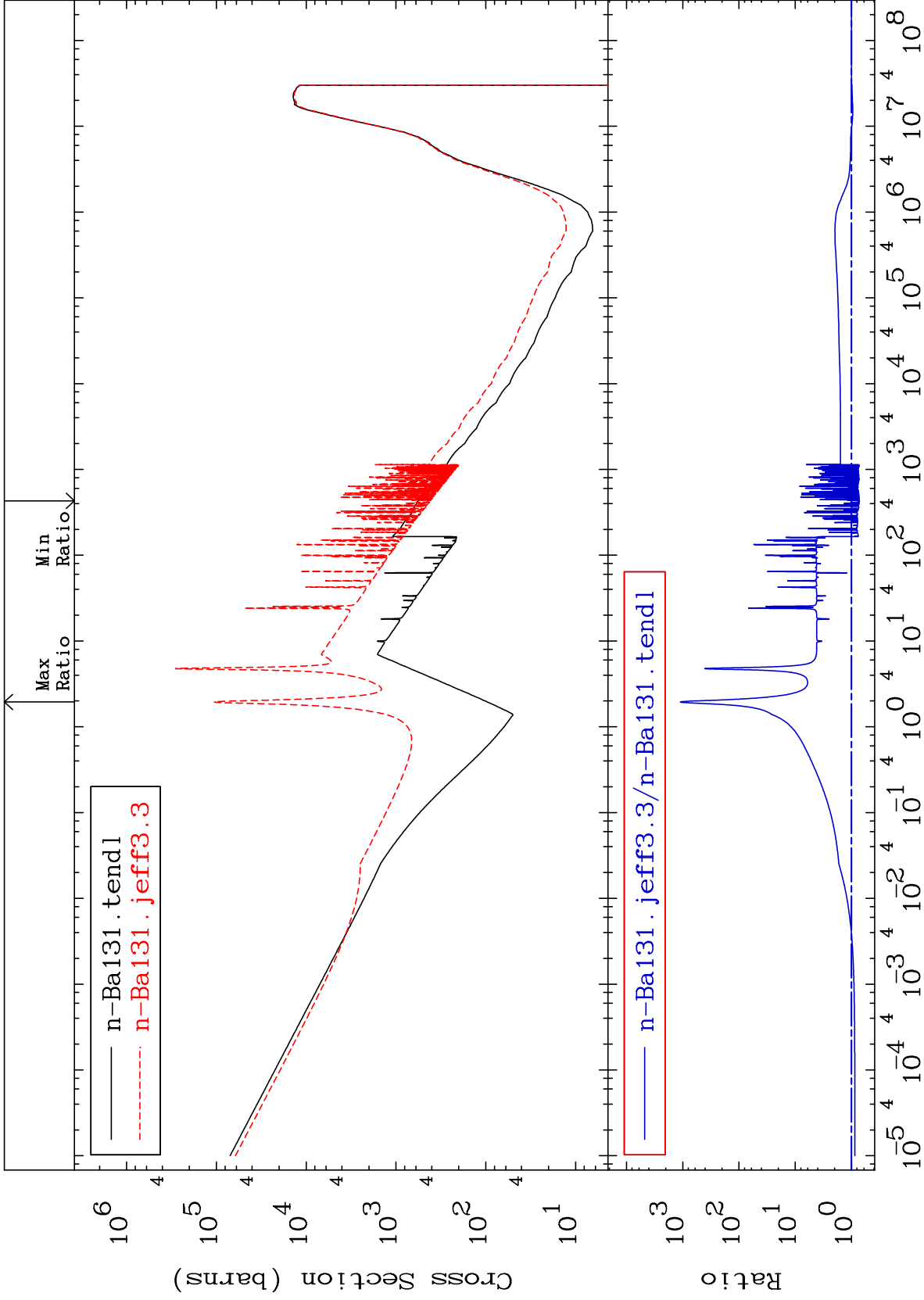


64

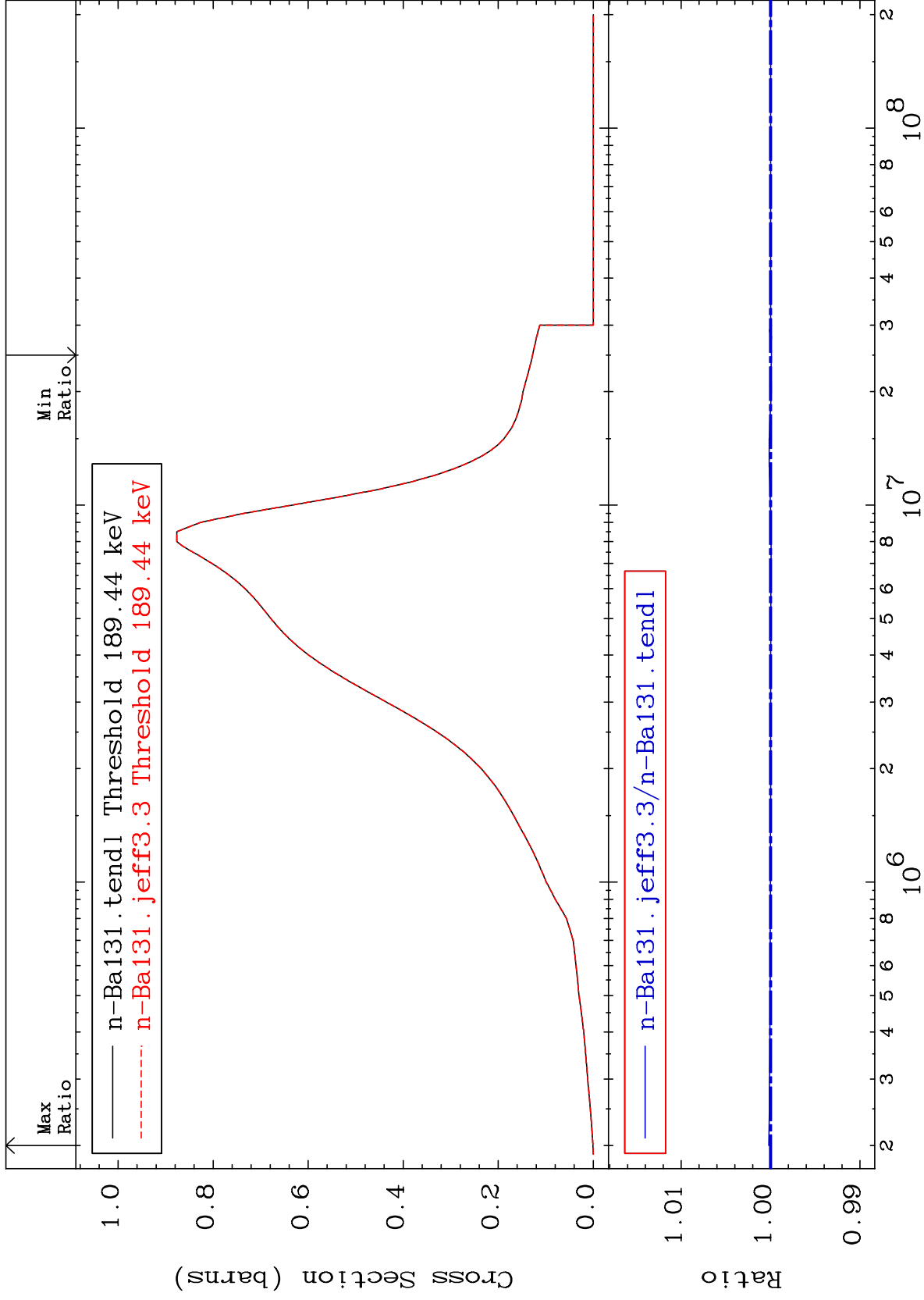
Incident Energy (eV)

56-Ba-131

Cross Section



Radionuclide Production Cross Section -0.010 To 0.019 %

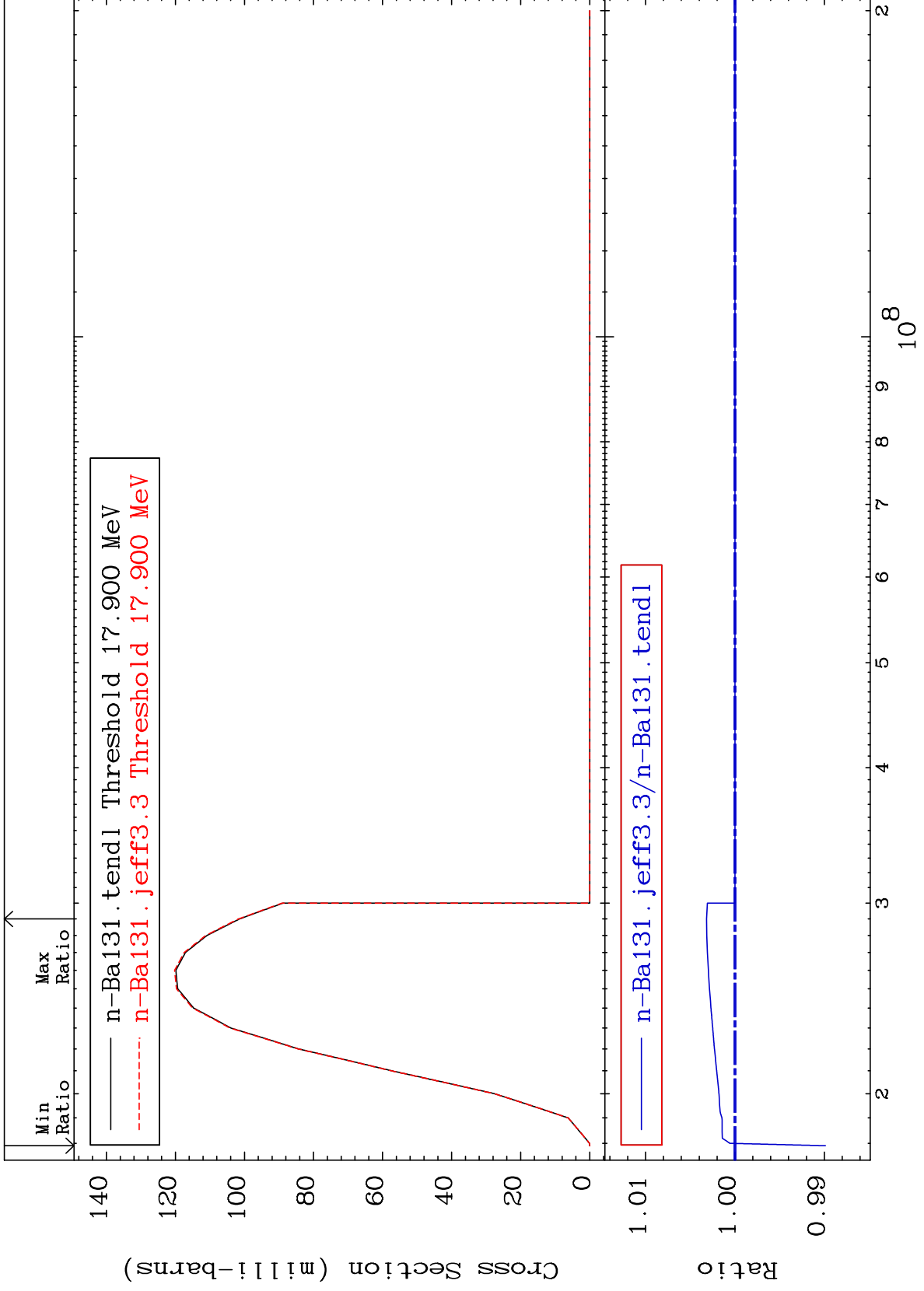


MAT 5628

(n,3n):56-Ba-129g

56-Ba-131

Radionuclide Production Cross Section -1.012 To 0.317 %

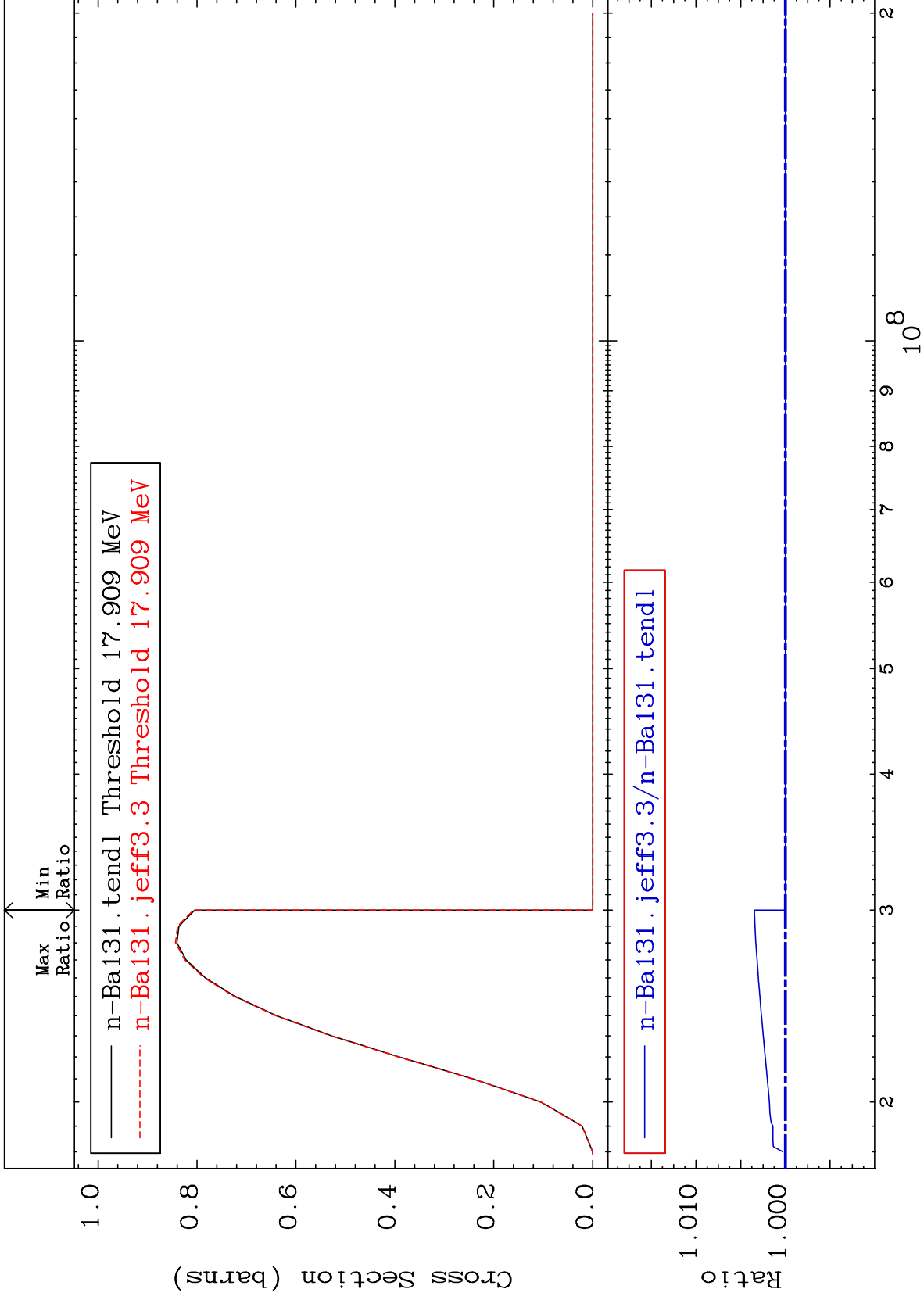


MAT 5628

(n,3n):56-Ba-129m1

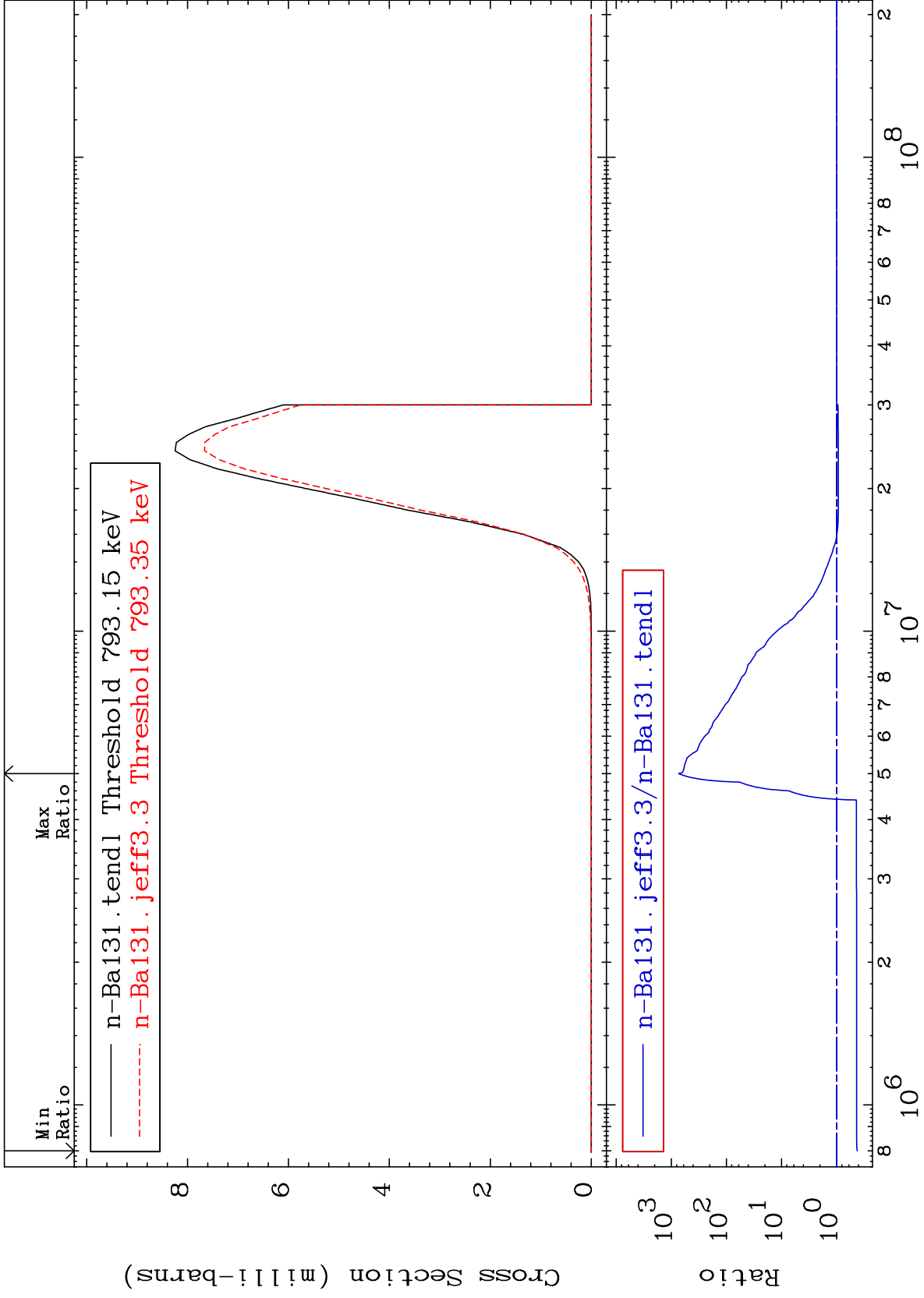
56-Ba-131

Radionuclide Production Cross Section 0.000 To 0.346 %



MAT 5628

(n, n') α :54-Xe-127g 56-Ba-131
Radionuclide Production Cross Section -57.80 To 9999. %



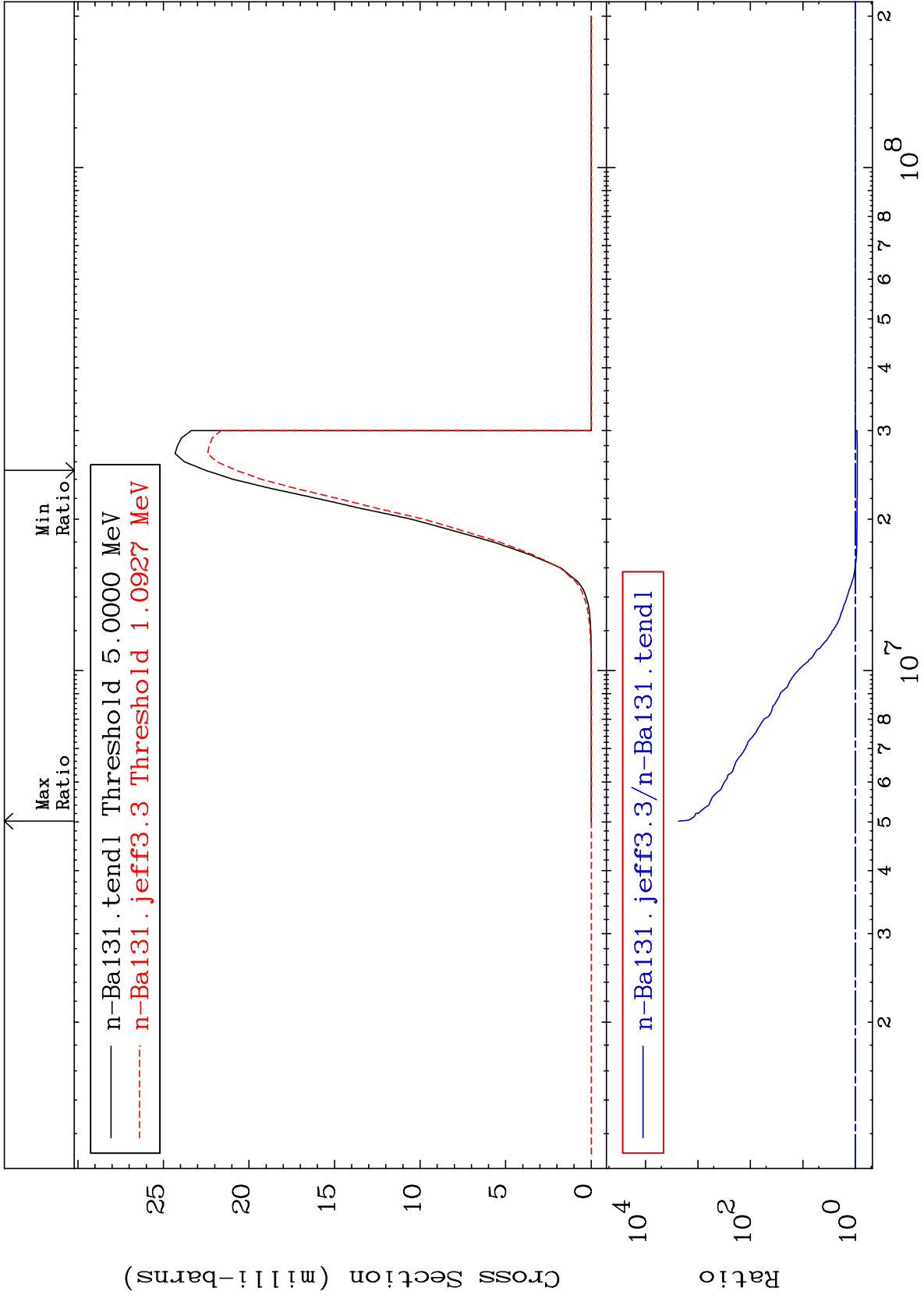
69

Incident Energy (eV)

56-Ba-131

MAT 5628

(n, n') α :54-Xe-127m2 56-Ba-131
Radionuclide Production Cross Section -7.987 To 9999. %



70

Incident Energy (eV)

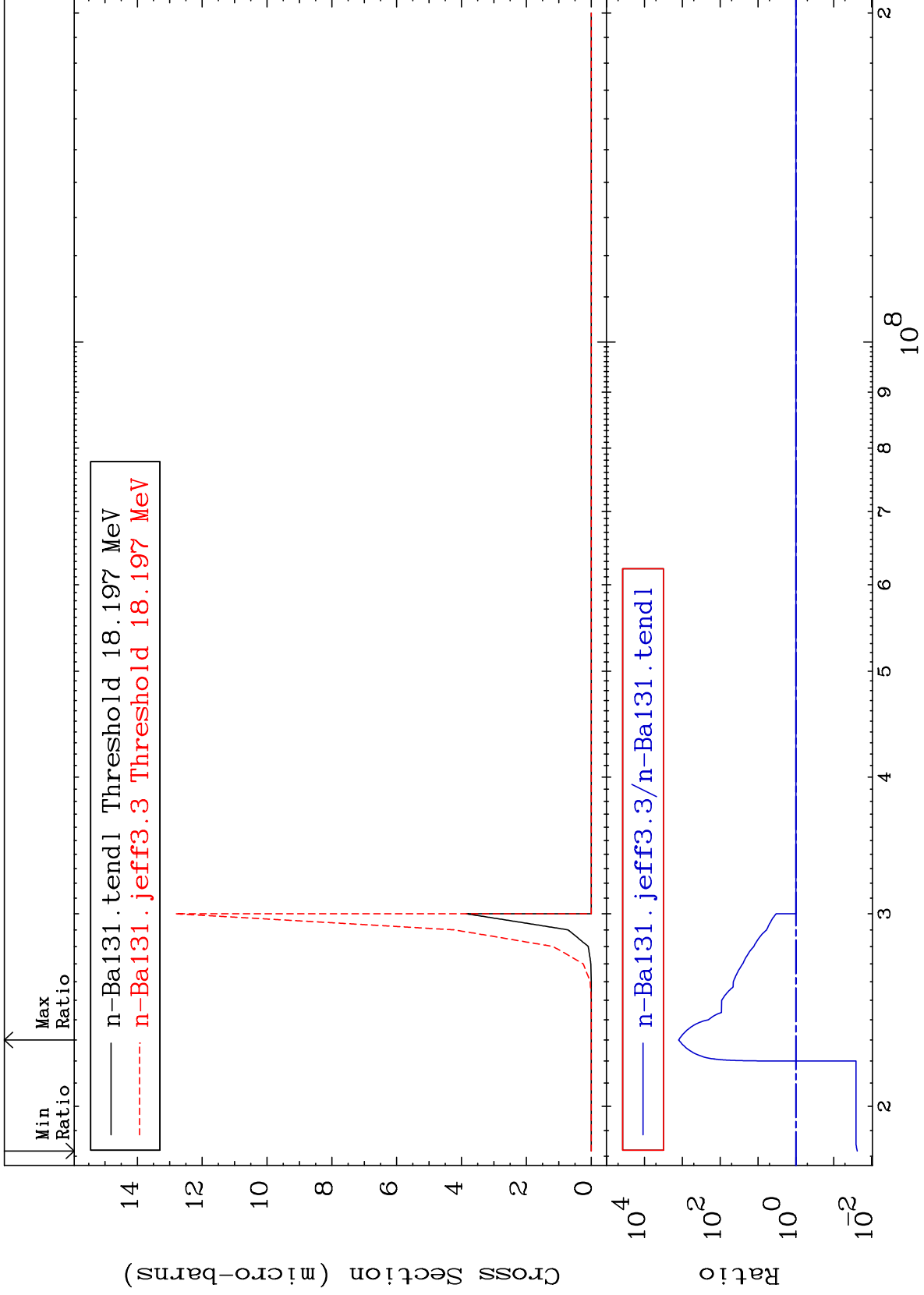
56-Ba-131

MAT 5628

(n,3n) α :54-Xe-125g

56-Ba-131

Radionuclide Production Cross Section -97.62 To 9999. %

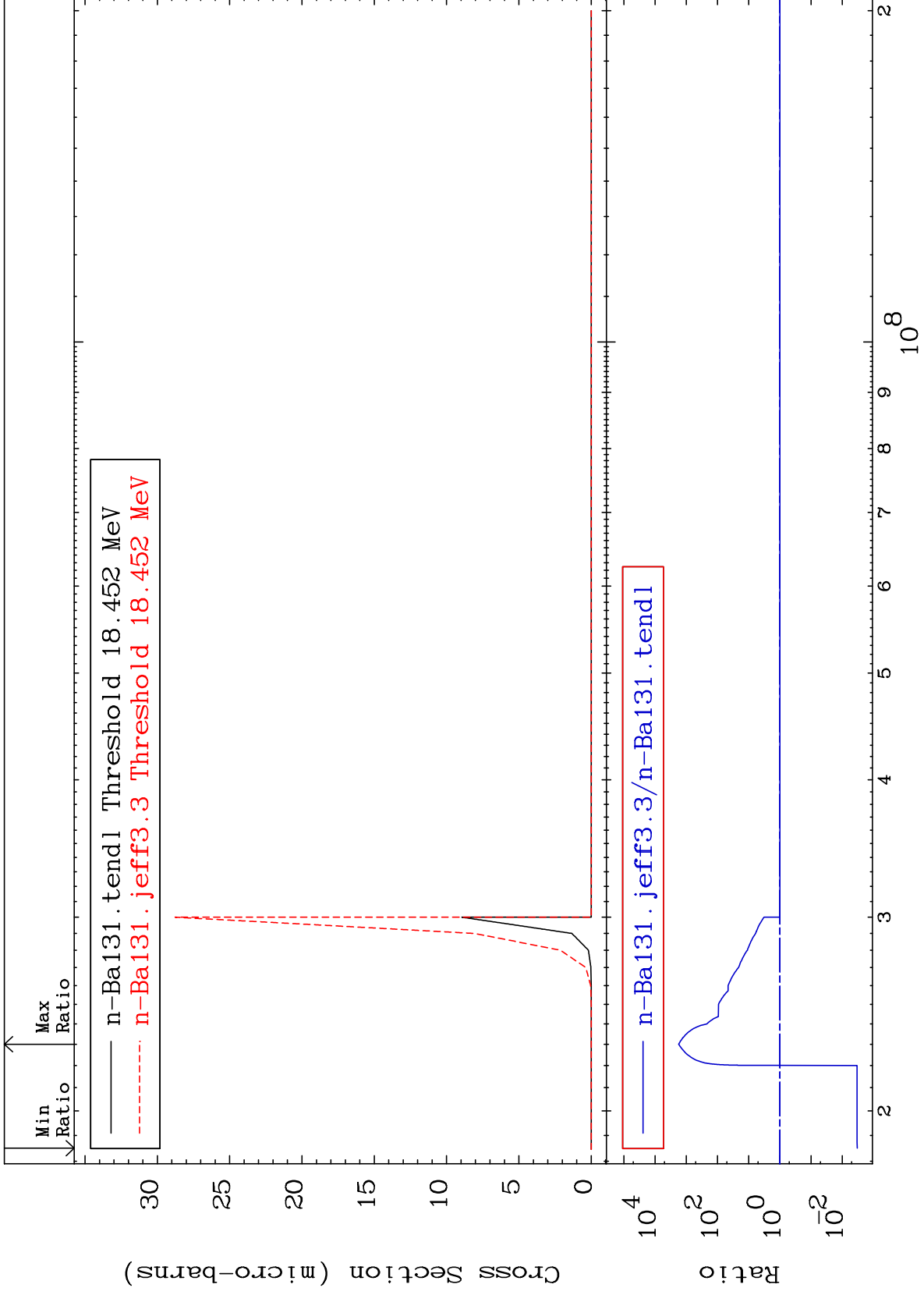


MAT 5628

(n,3n) α :54-Xe-125m2

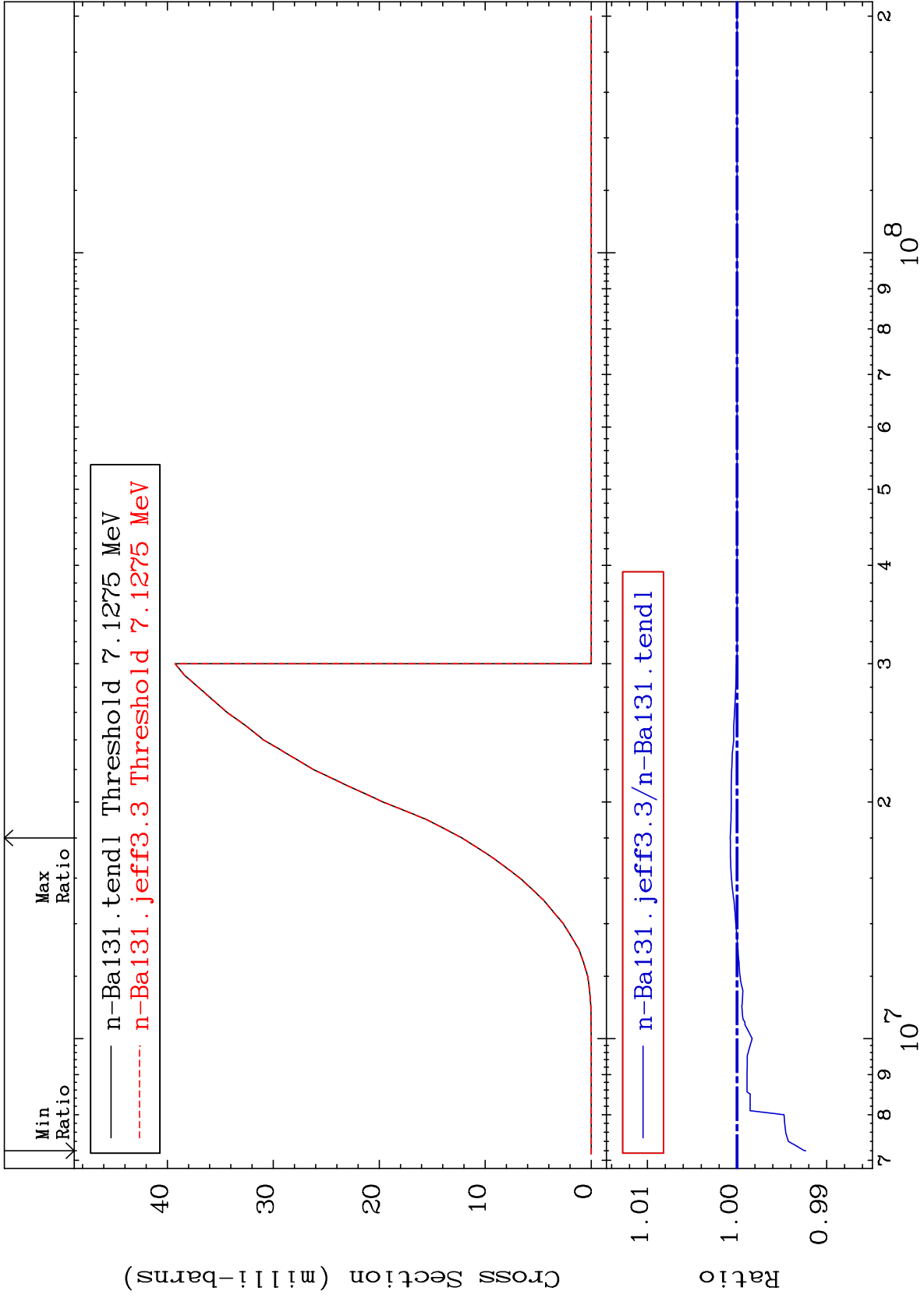
56-Ba-131

Radionuclide Production Cross Section -99.67 To 9999. %



MAT 5628

(n, n') p:55-Cs-130g 56-Ba-131
Radionuclide Production Cross Section -0.765 To 0.075 %



73

Incident Energy (eV)

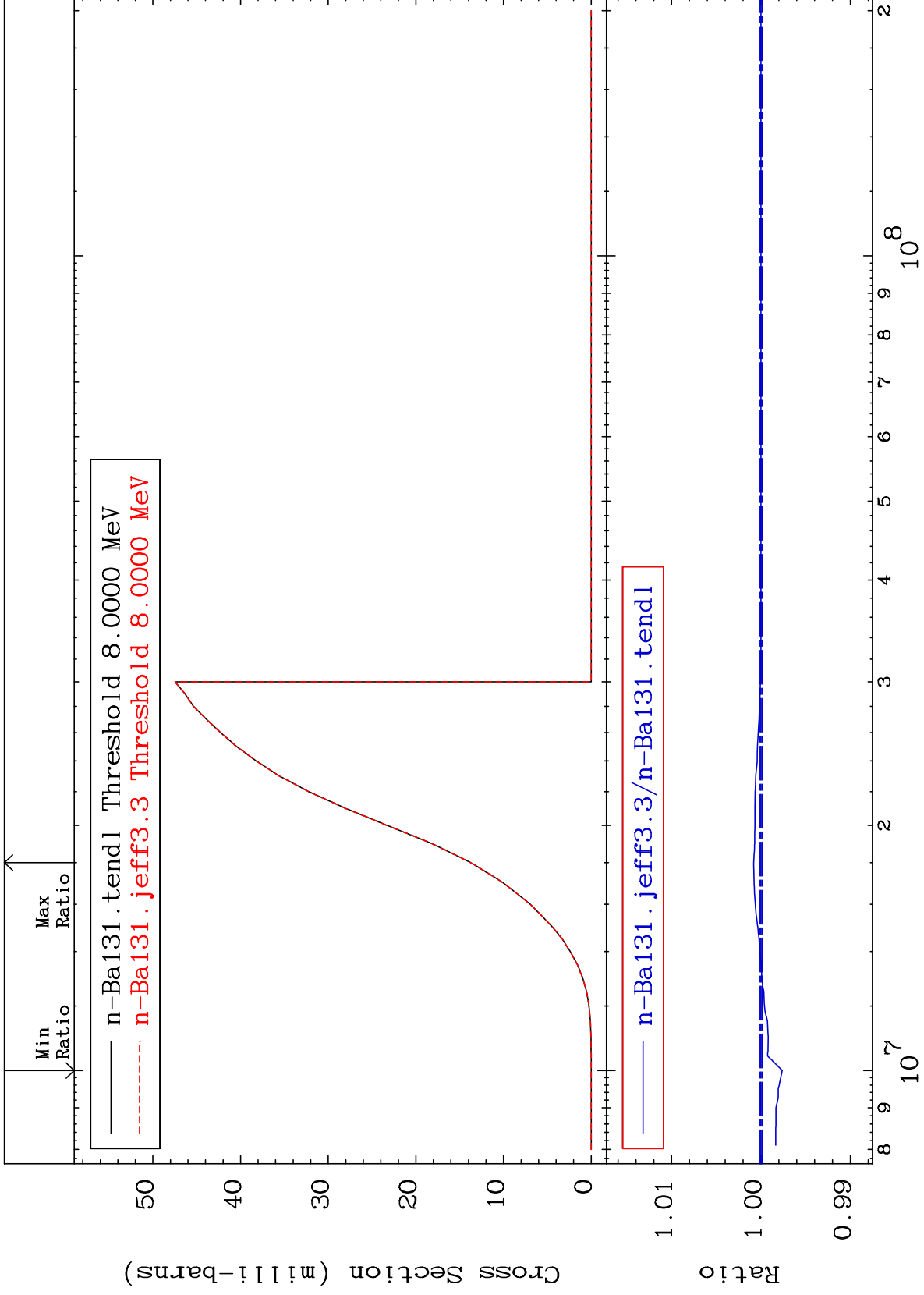
56-Ba-131

MAT 5628

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

56-Ba-131

Radionuclide Production Cross Section -0.238 To 0.082 %



74

Incident Energy (eV)

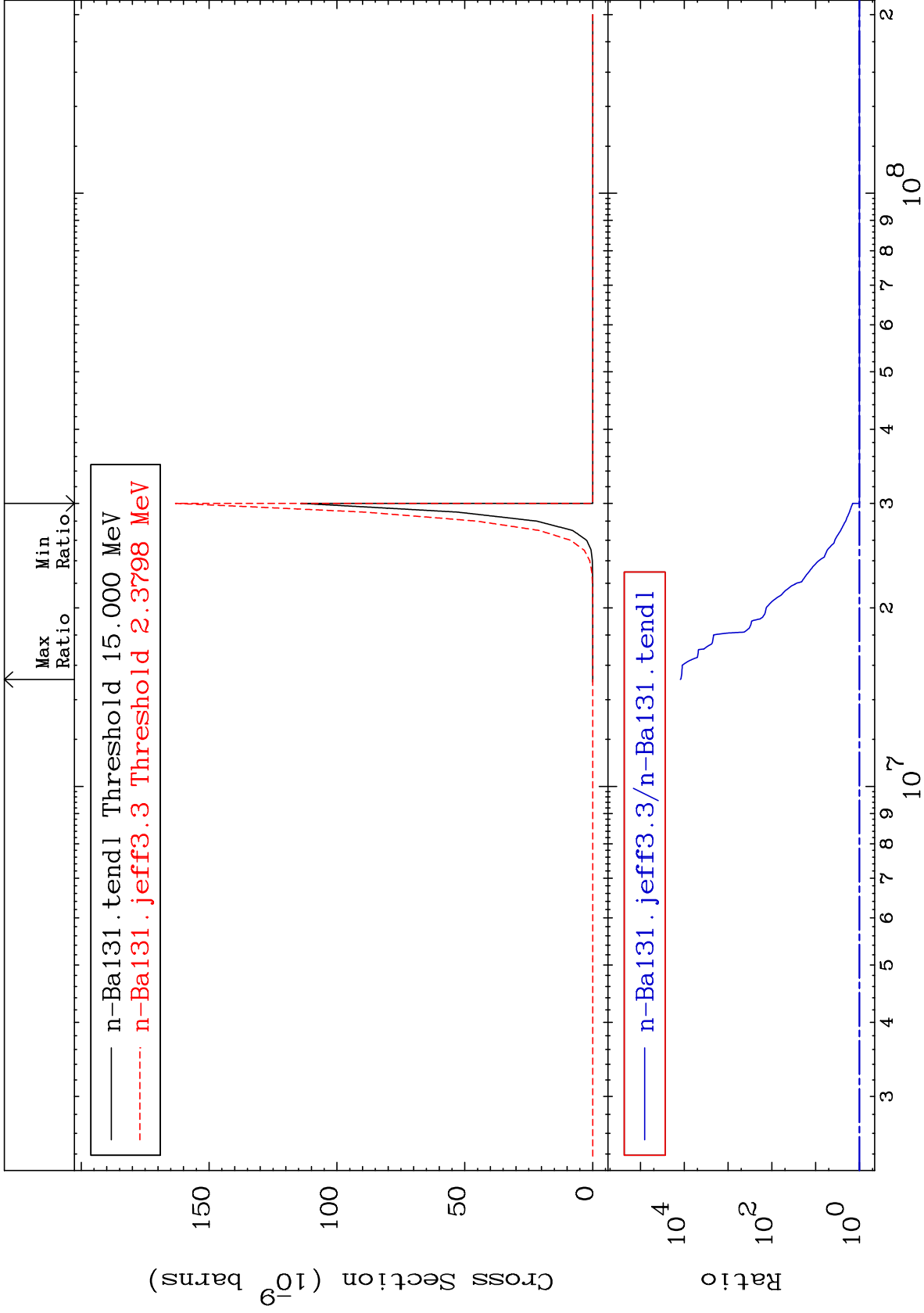
56-Ba-131

MAT 5628

56-Ba-131

(n,n') 2α:52-Te-123g

Radionuclide Production Cross Section 0.000 To 9999. %



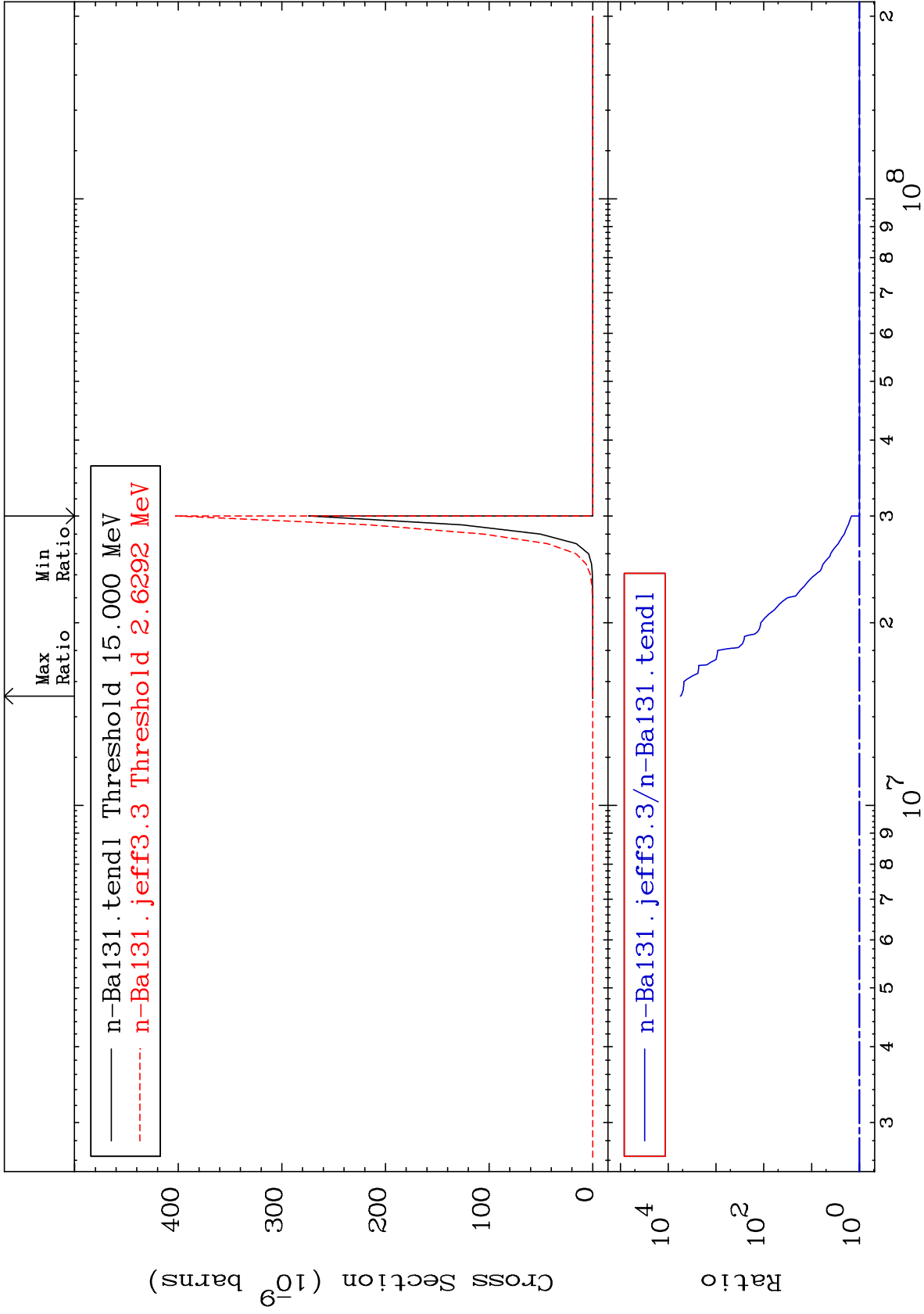
75

Incident Energy (eV)

56-Ba-131

MAT 5628

(n, n') 2α:52-Te-123m2 56-Ba-131
Radionuclide Production Cross Section 0.000 To 9999. %

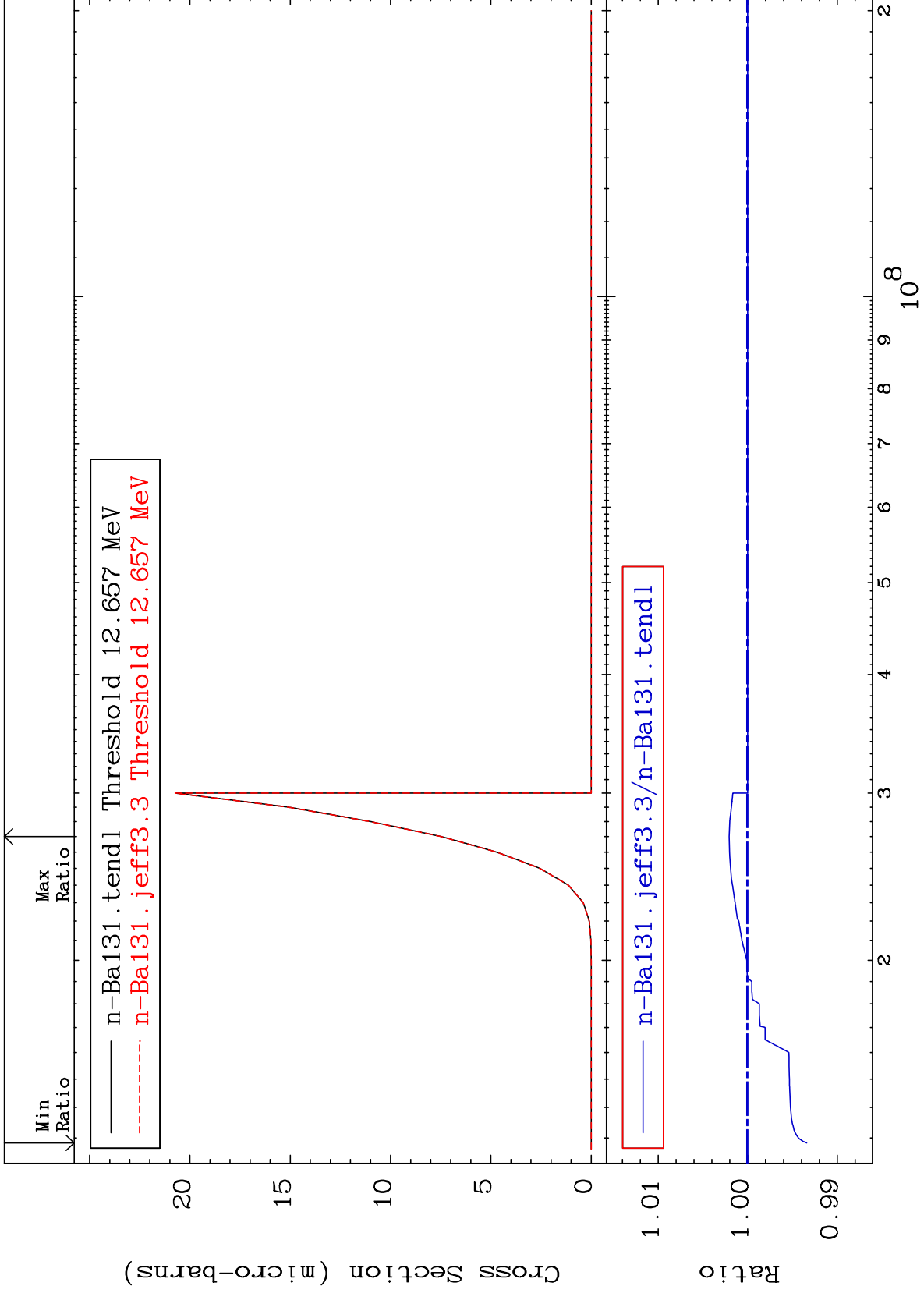


MAT 5628

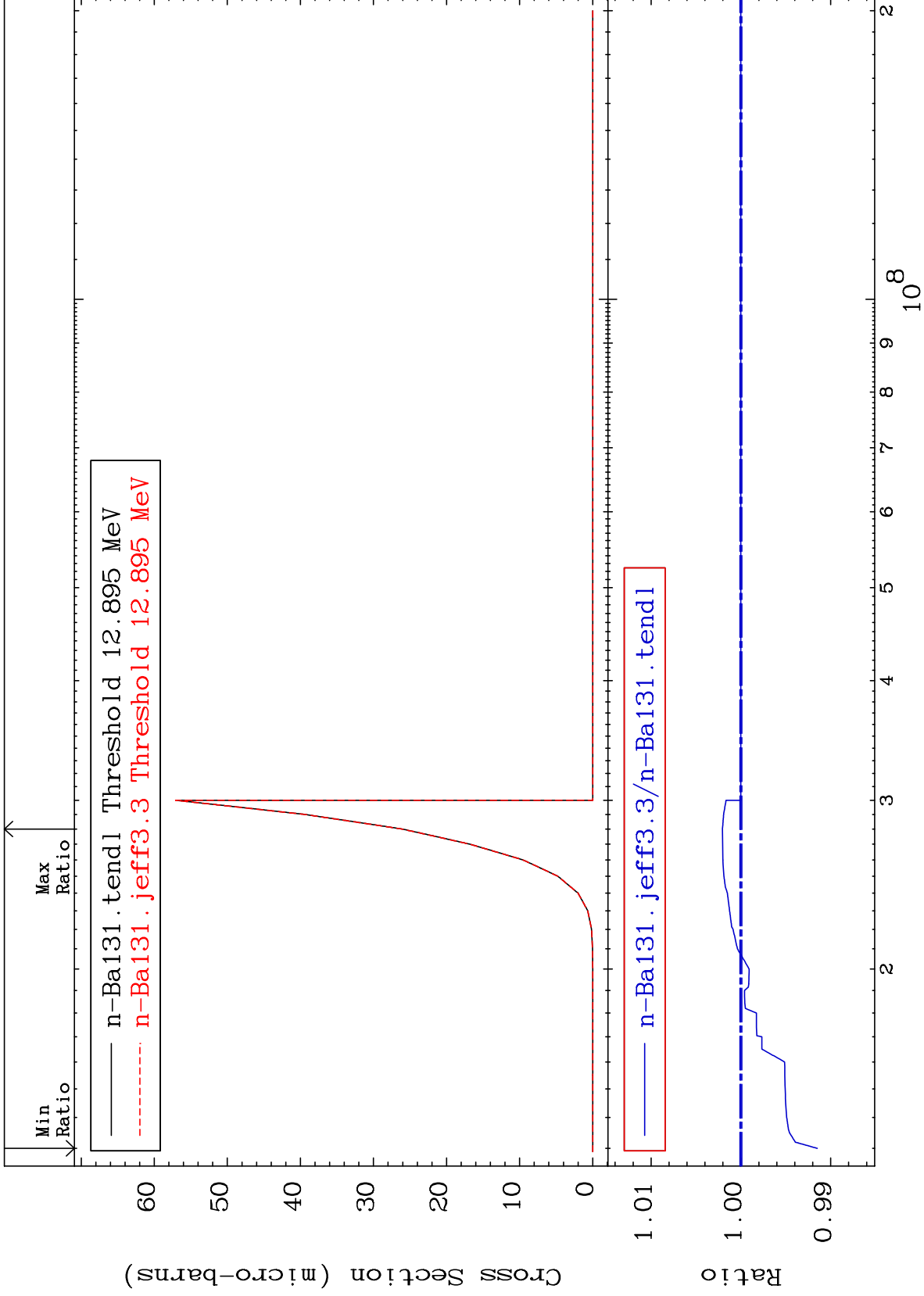
(n,2n) p:54-Xe-129g

56-Ba-131

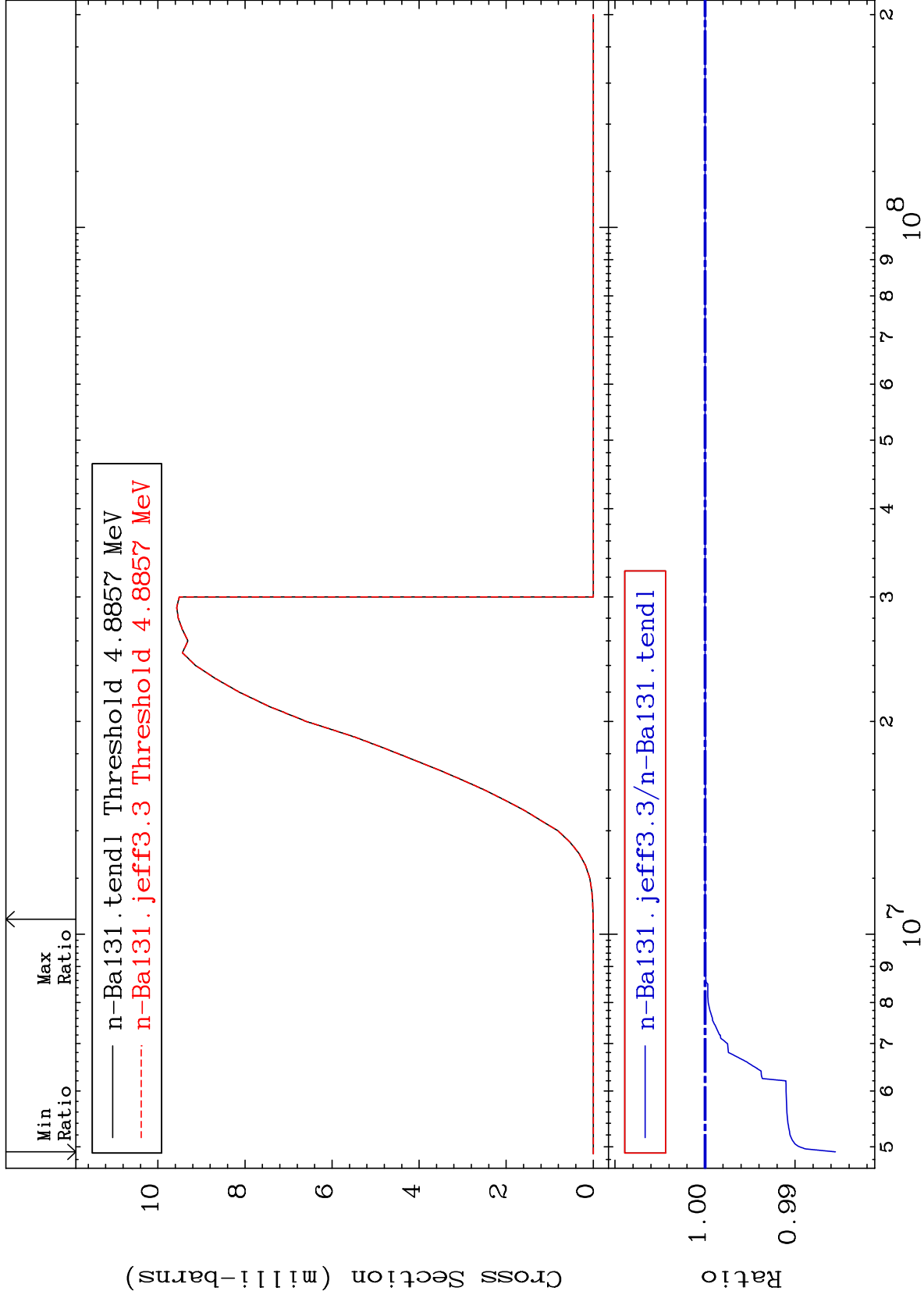
Radionuclide Production Cross Section -0.660 To 0.208 %



Radionuclide Production Cross Section -0.851 To 0.205 %



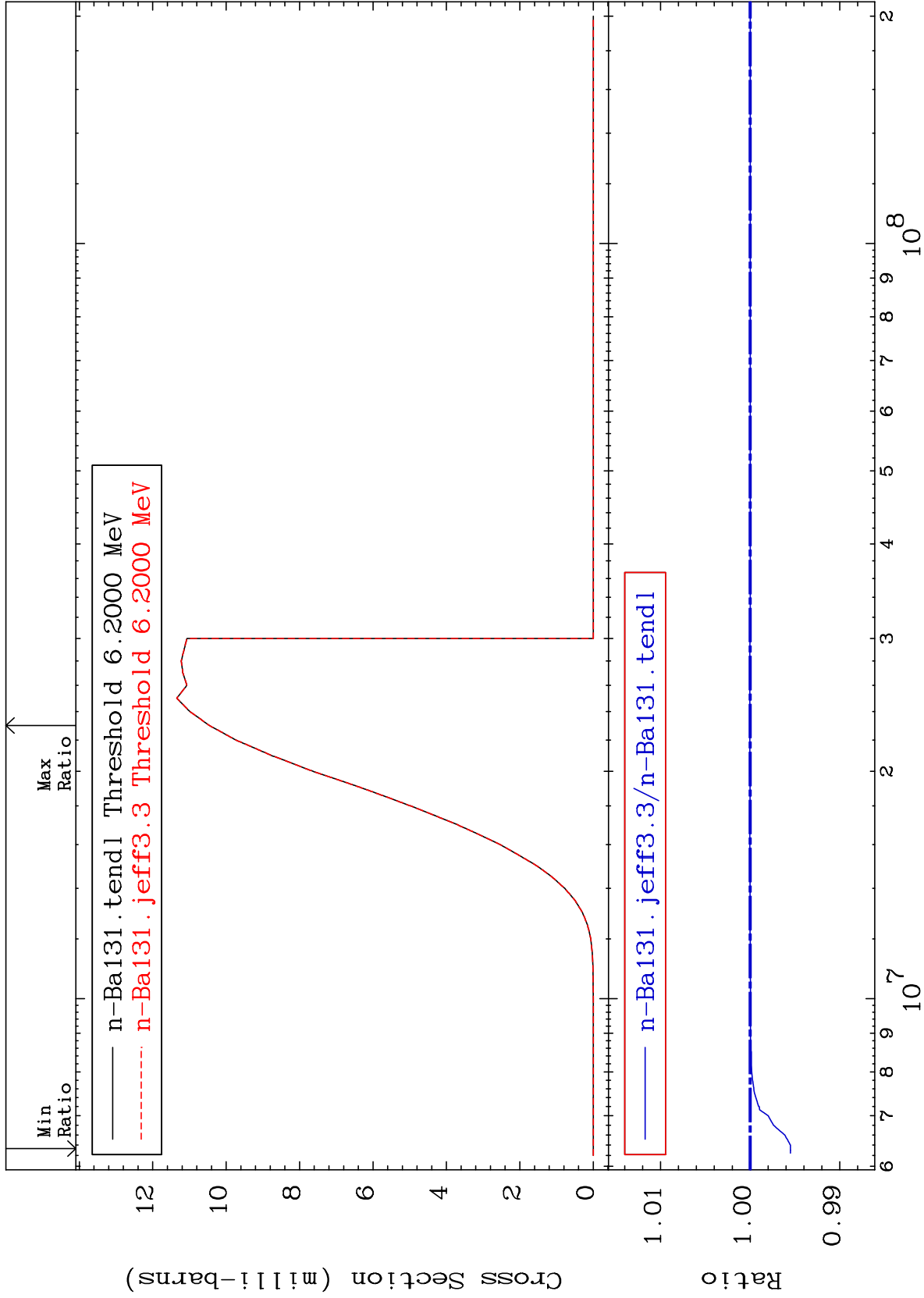
Radionuclide Production Cross Section -1.448 To 0.002 %



MAT 5628

56-Ba-131

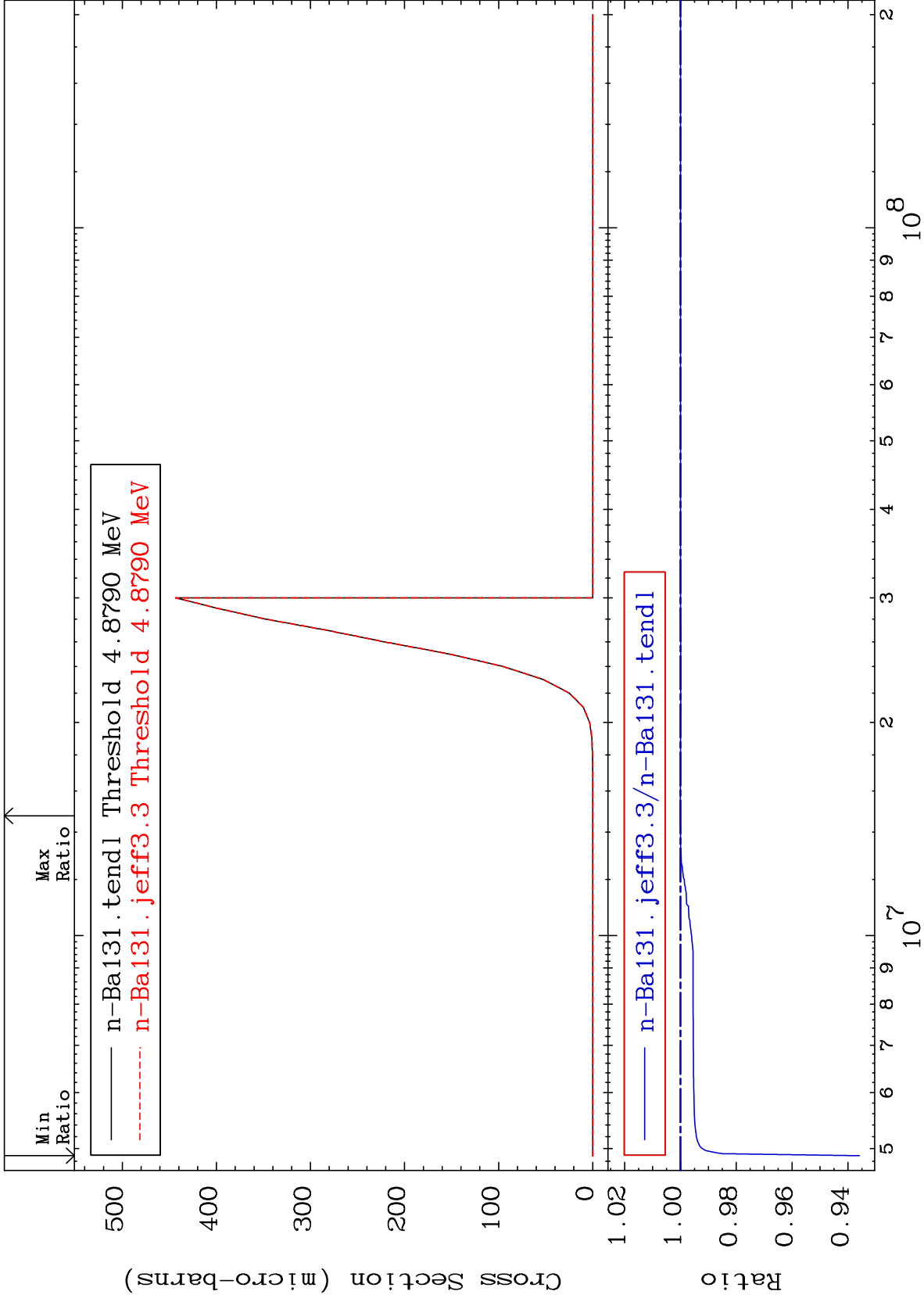
(n, d) : 55-Cs-130m4
Radionuclide Production Cross Section -0.450 To 0.004 %



80

Incident Energy (eV)

56-Ba-131

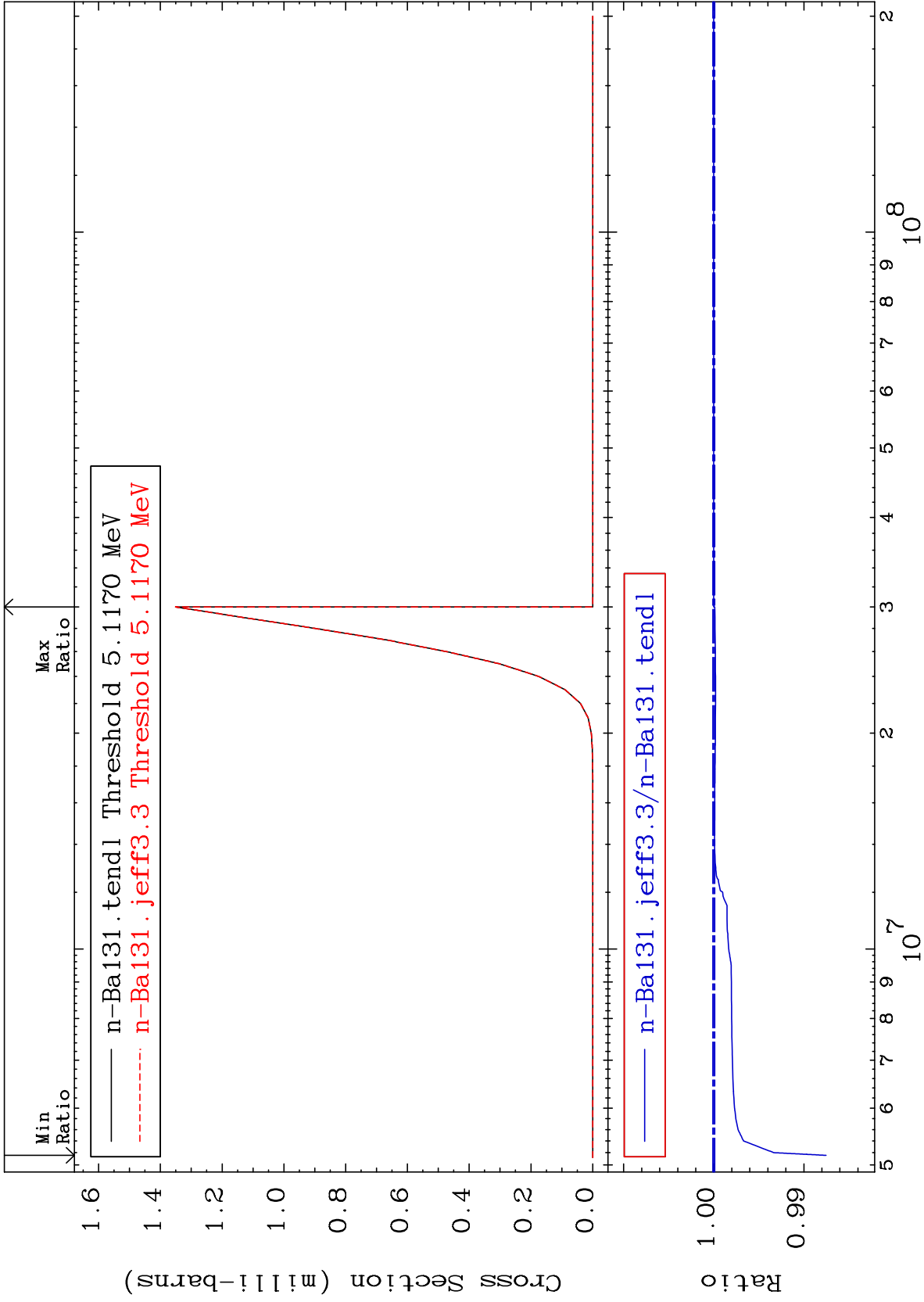


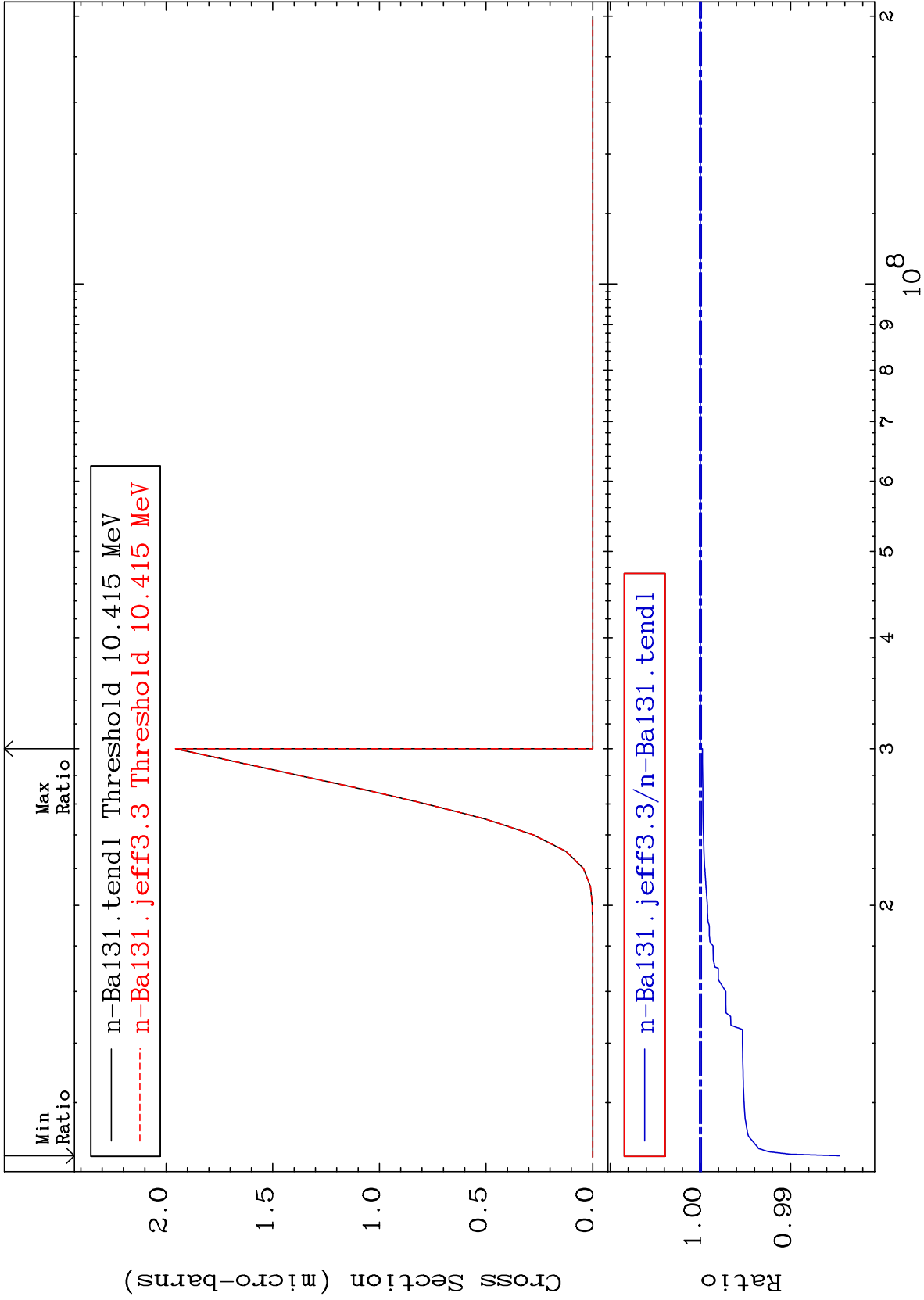
MAT 5628

(n,He-3):54-Xe-129m2

56-Ba-131

Radionuclide Production Cross Section -1.246 To 0.000 %





MAT 5628

(n, p) d:54-Xe-129m2

56-Ba-131

Radionuclide Production Cross Section -0.581 To 0.000 %

