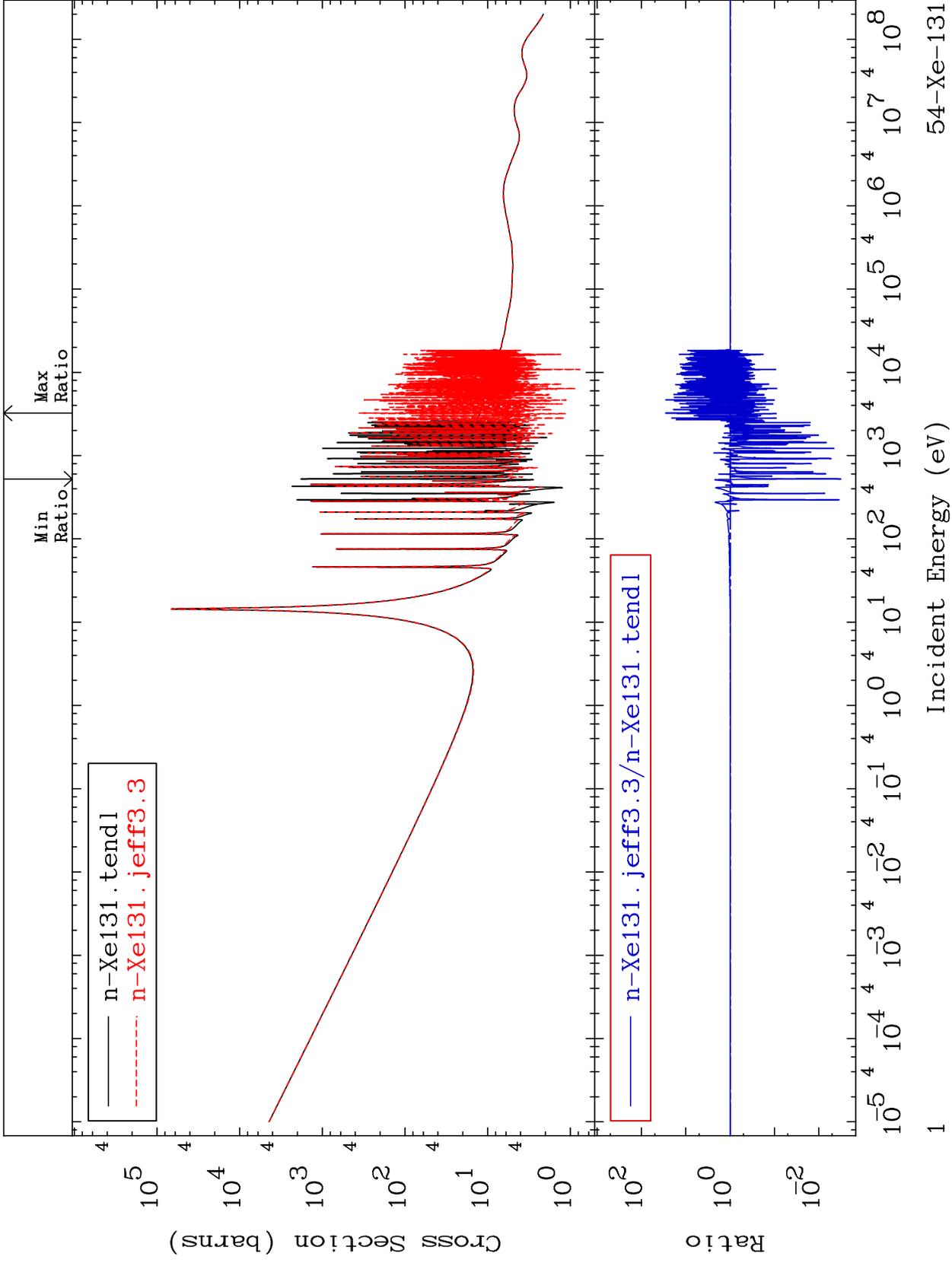


MAT 5446

Total Cross Section
54-Xe-131
-99.68 To 2761. %

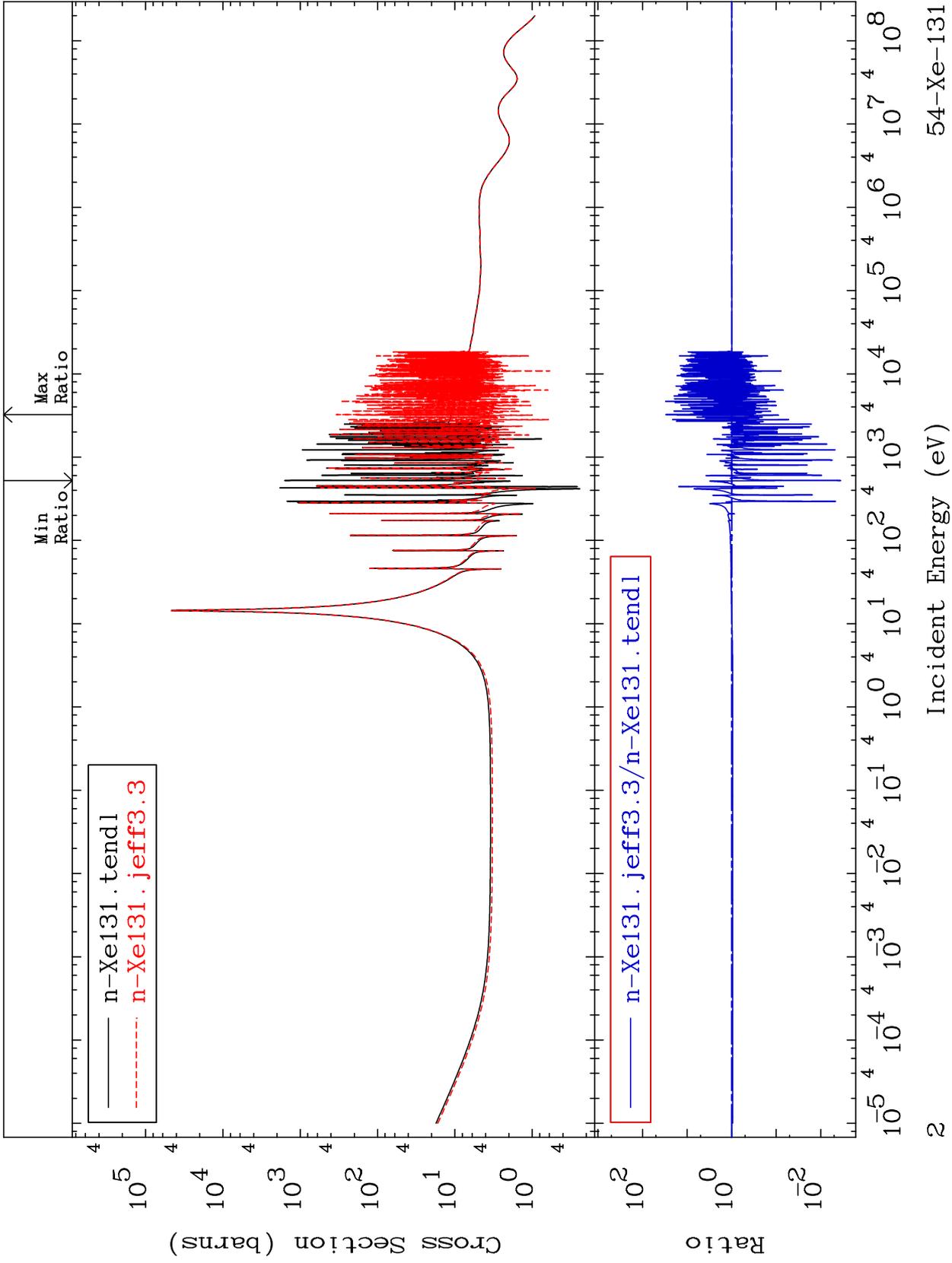


54-Xe-131

Incident Energy (eV)

MAT 5446

Elastic Cross Section 54-Xe-131
-99.65 To 2950. %



54-Xe-131

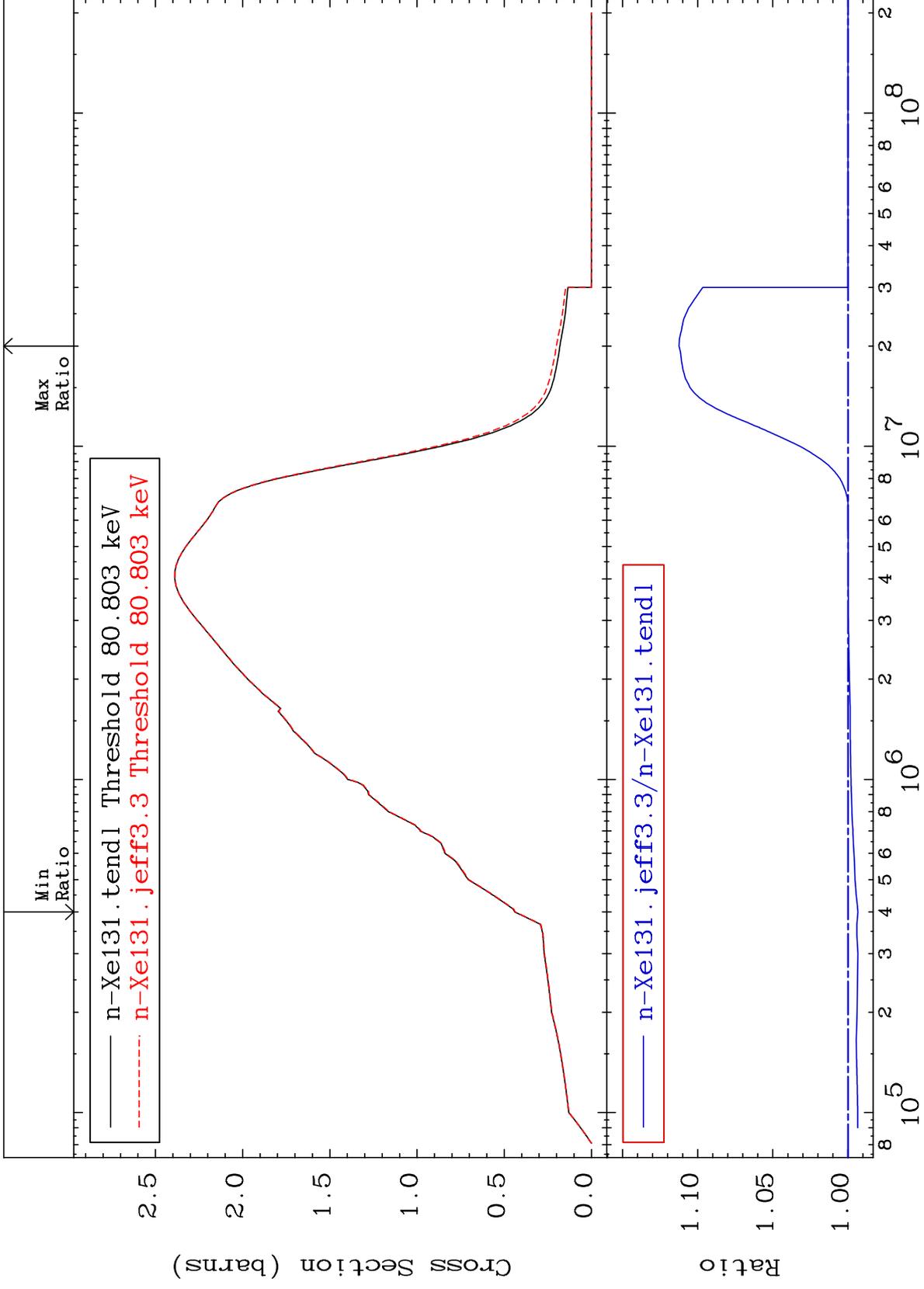
Incident Energy (eV)

2

MAT 5446

Inelastic
Cross Section

54-Xe-131
-0.662 To 11.24 %



3

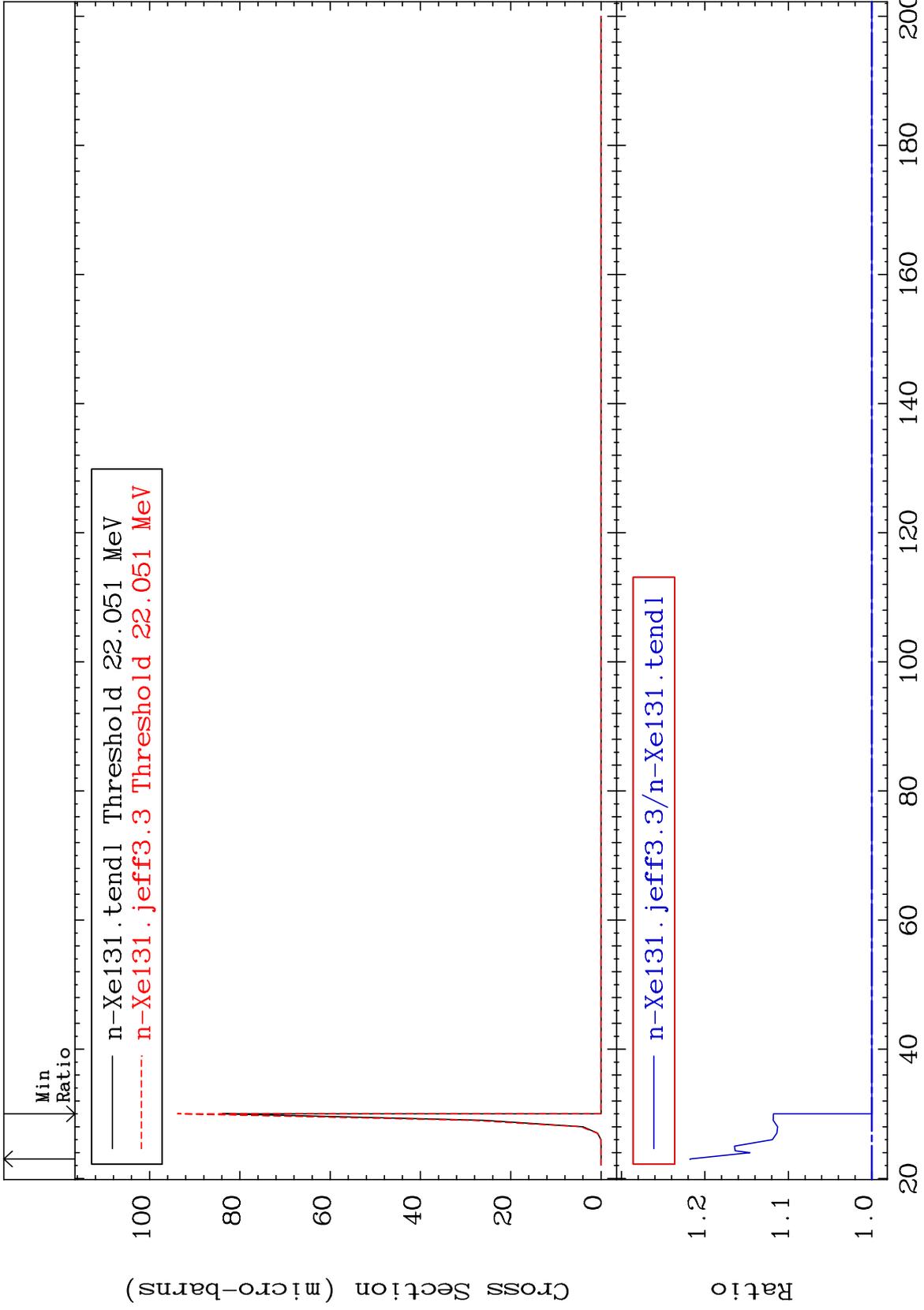
Incident Energy (eV)

54-Xe-131

MAT 5446

(n,2n) d
Cross Section

54-Xe-131
To 21.78 %
0.000



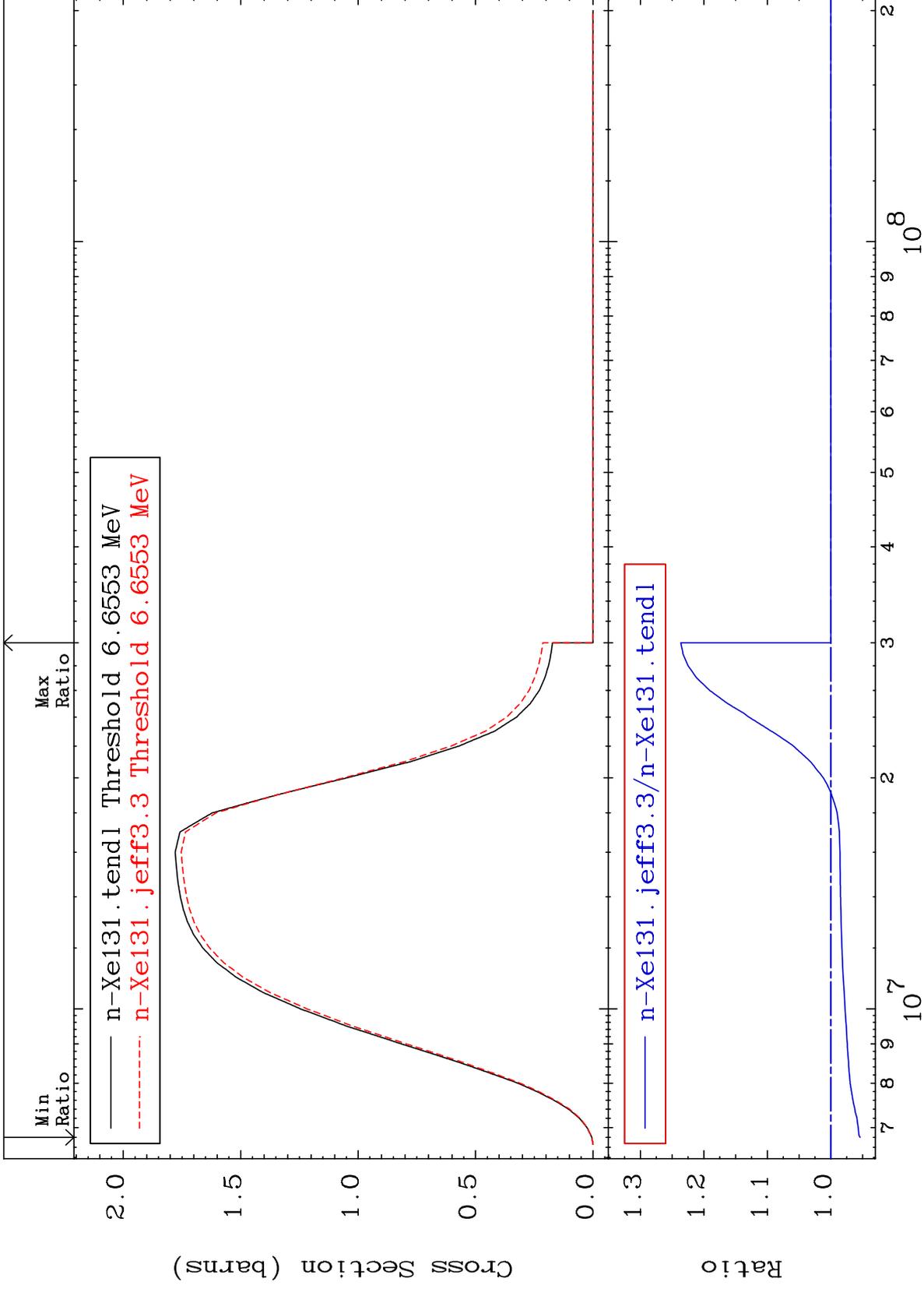
MAT 5446

(n,2n)

54-Xe-131

Cross Section

-4.595 To 23.65 %



5

Incident Energy (eV)

54-Xe-131

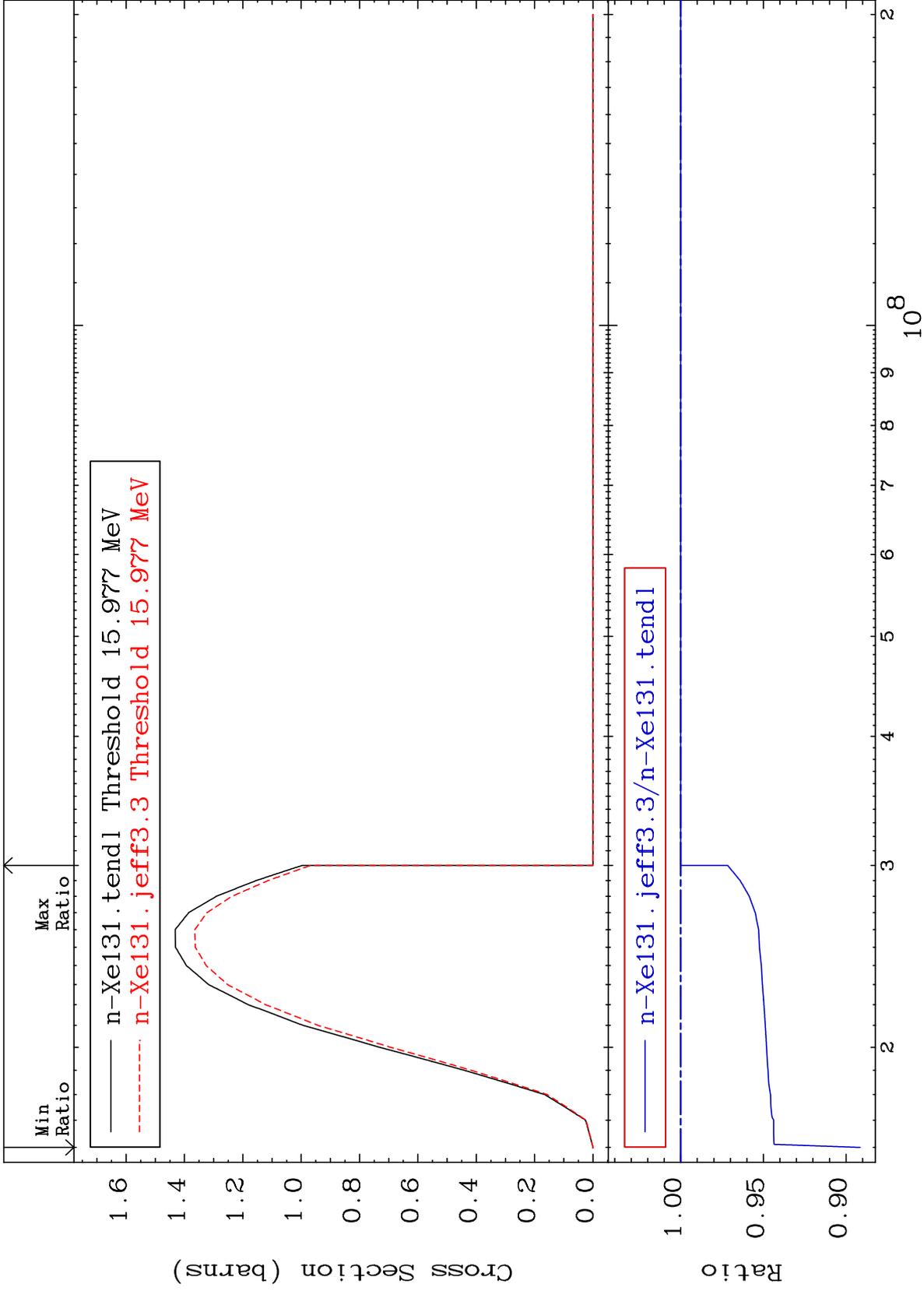
MAT 5446

(n,3n)

54-Xe-131

Cross Section

-10.85 To 0.000 %



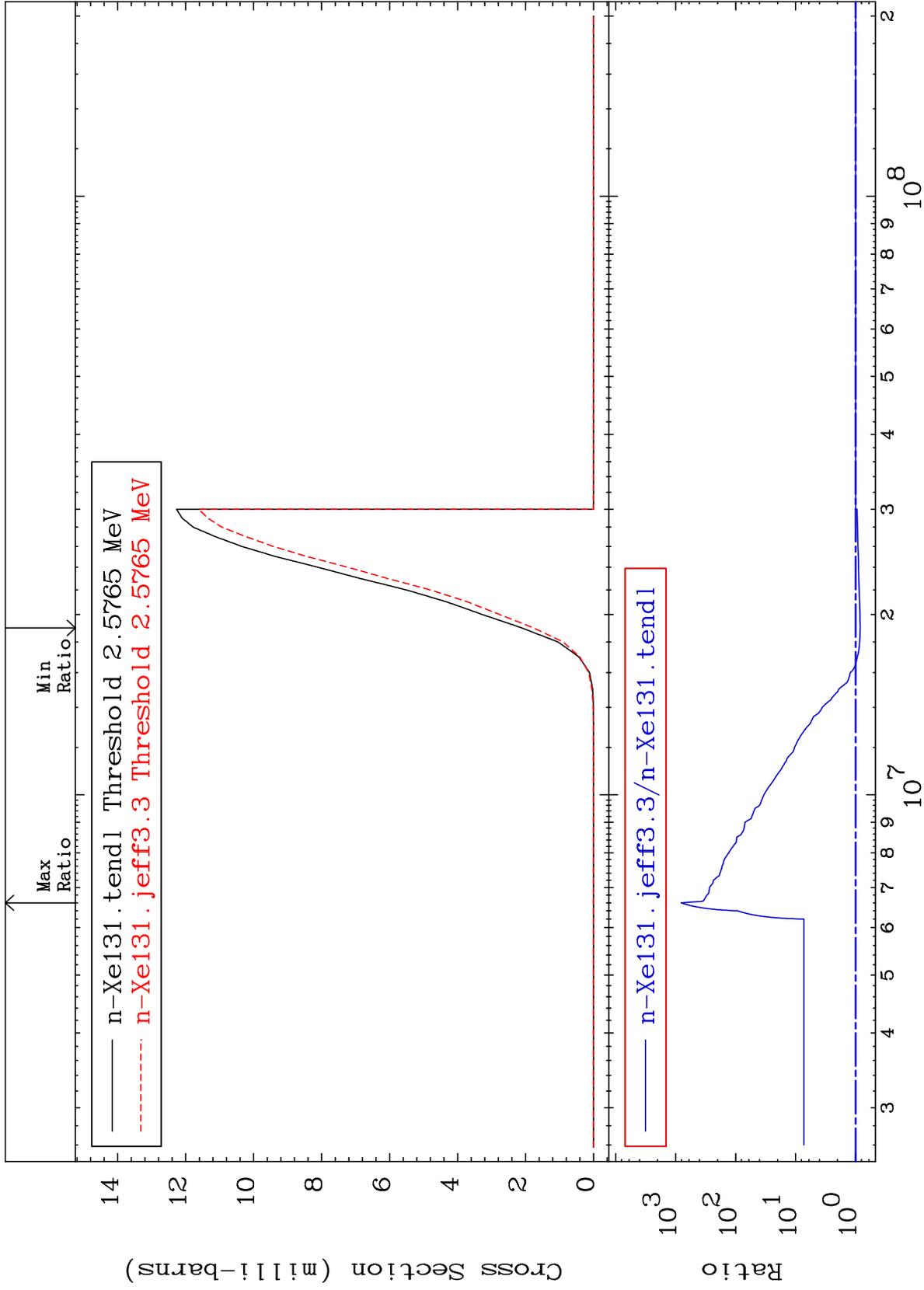
MAT 5446

54-Xe-131

(n, n') α

Cross Section

-16.35 To 9999. %



7

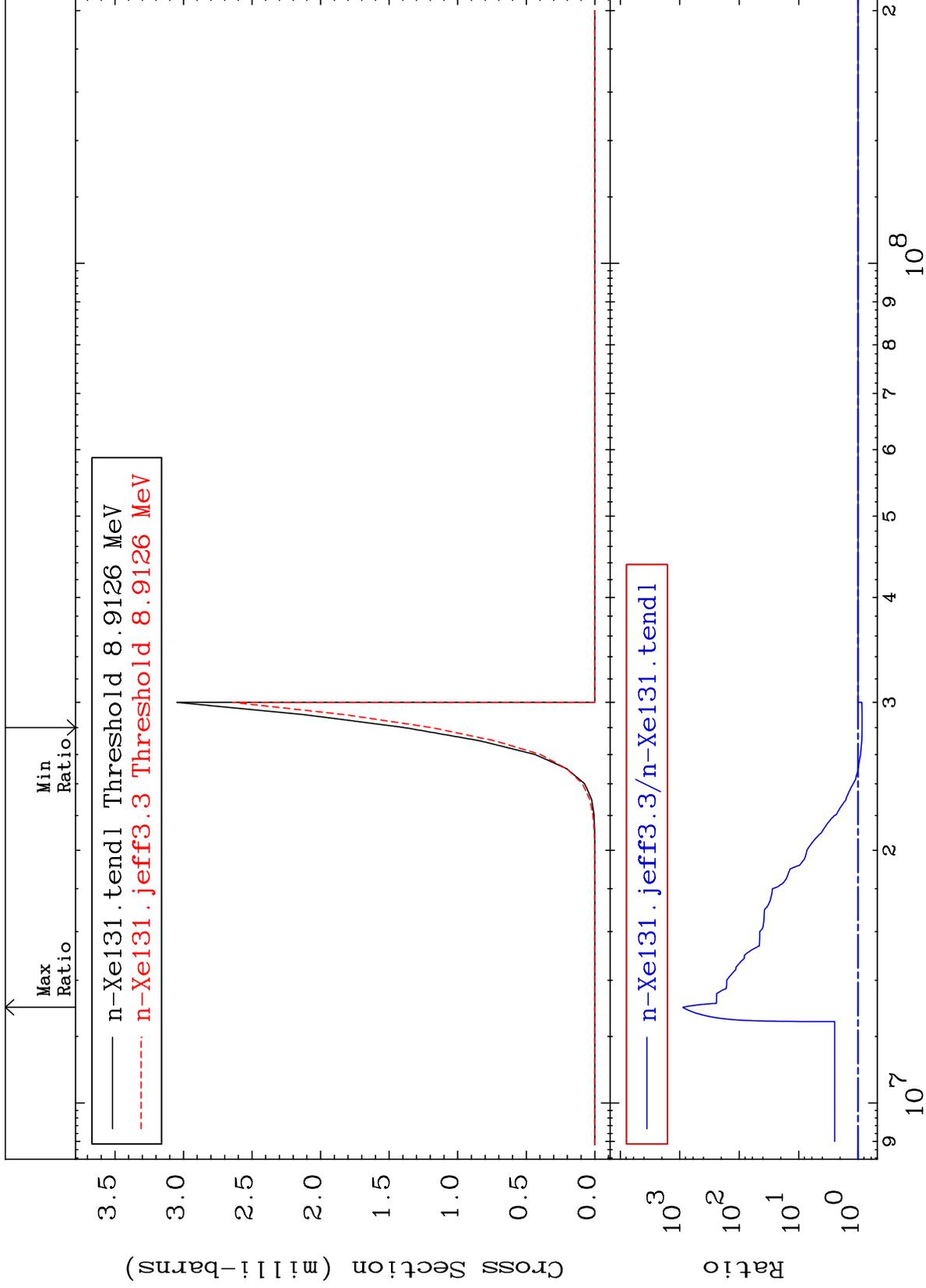
Incident Energy (eV)

54-Xe-131

MAT 5446

(n,2n) α
Cross Section

54-Xe-131
-14.16 To 9999. %



8

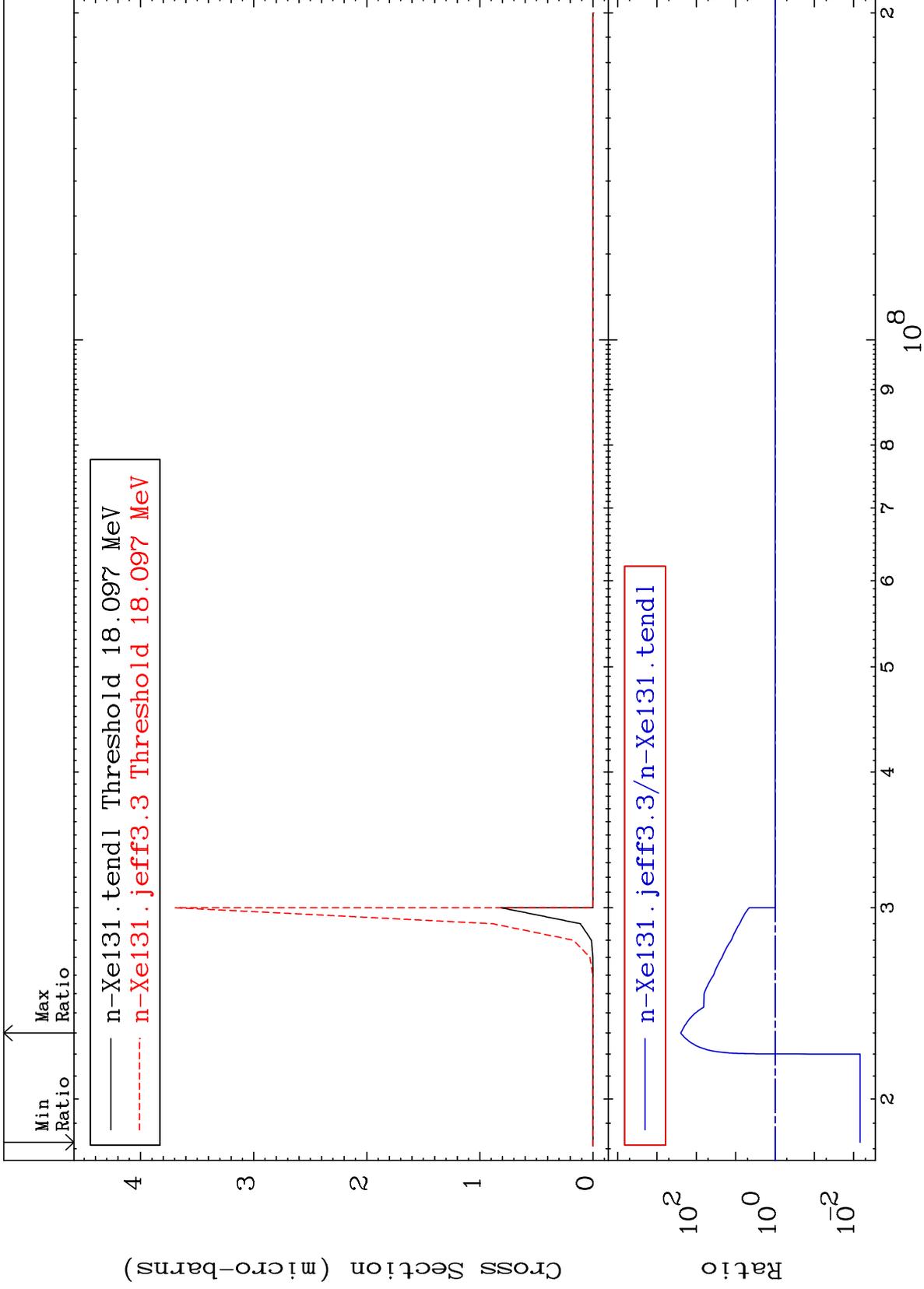
Incident Energy (eV)

54-Xe-131

MAT 5446

(n,3n) α
Cross Section

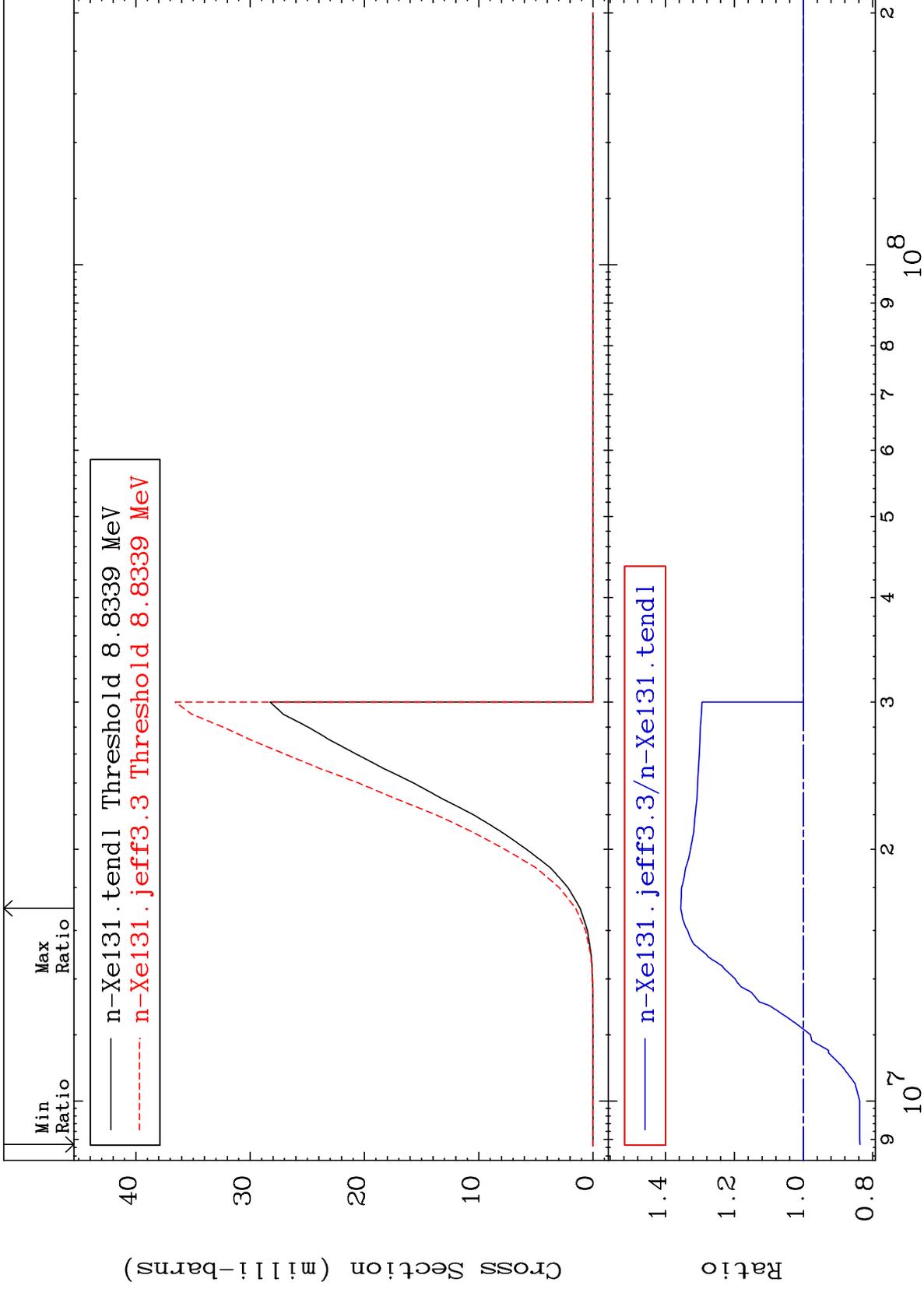
54-Xe-131
-99.31 To 9999. %



MAT 5446

(n,n') p
Cross Section

54-Xe-131
-16.39 To 35.55 %



10

Incident Energy (eV)

54-Xe-131

MAT 5446

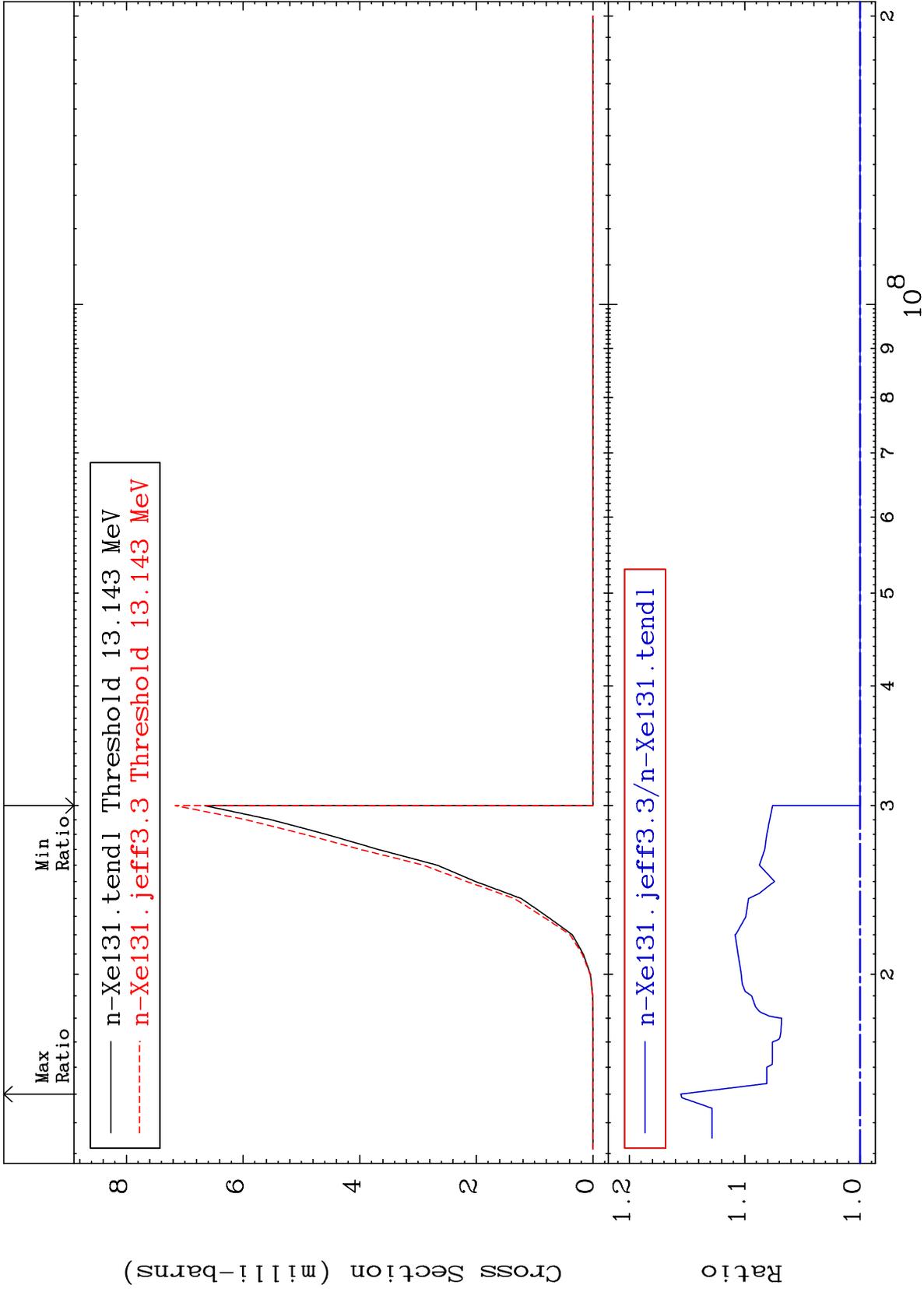
(n, n') d

54-Xe-131

Cross Section

0.000

To 15.55 %



11

Incident Energy (eV)

54-Xe-131

MAT 5446

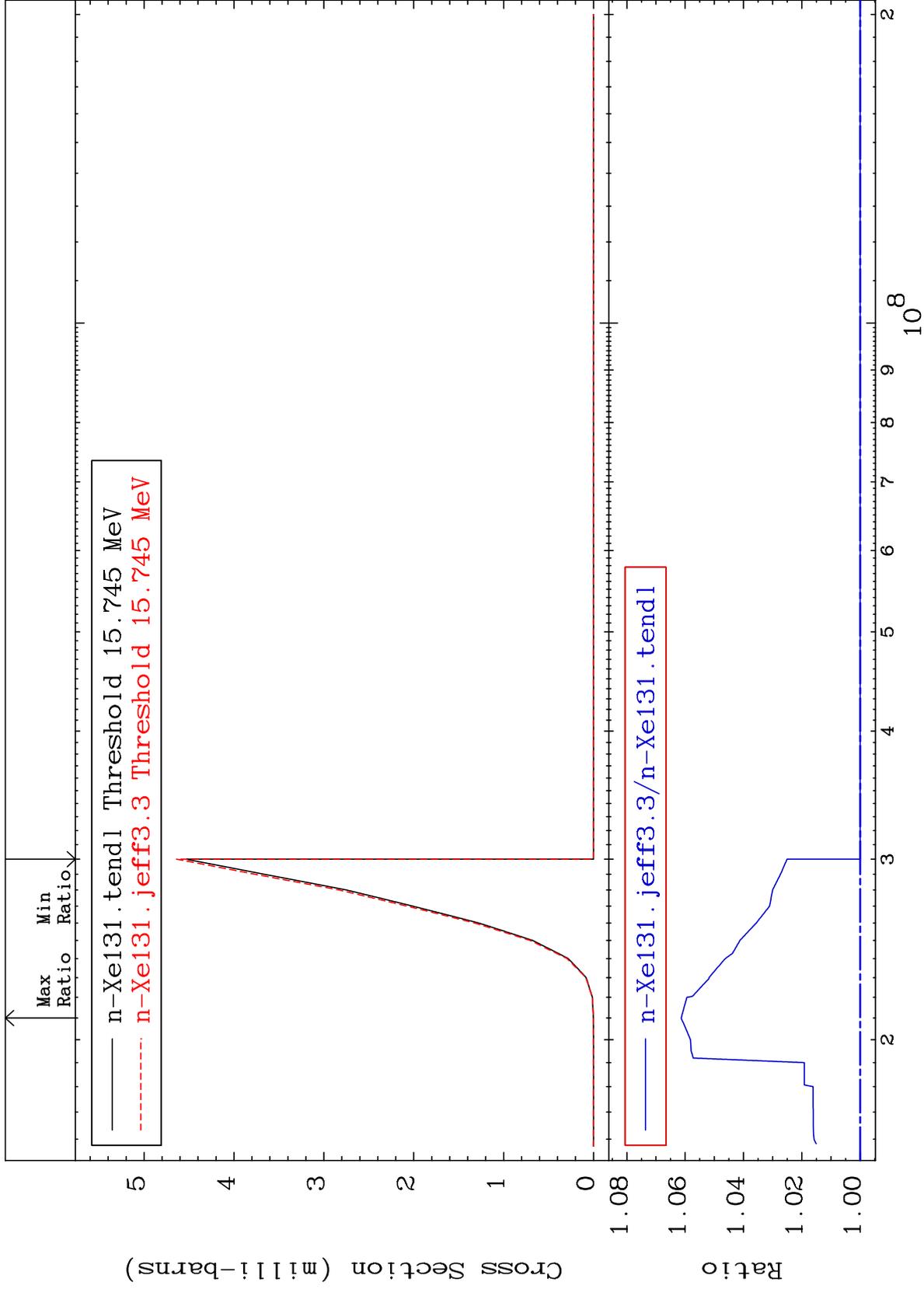
(n,n') t

54-Xe-131

Cross Section

0.000

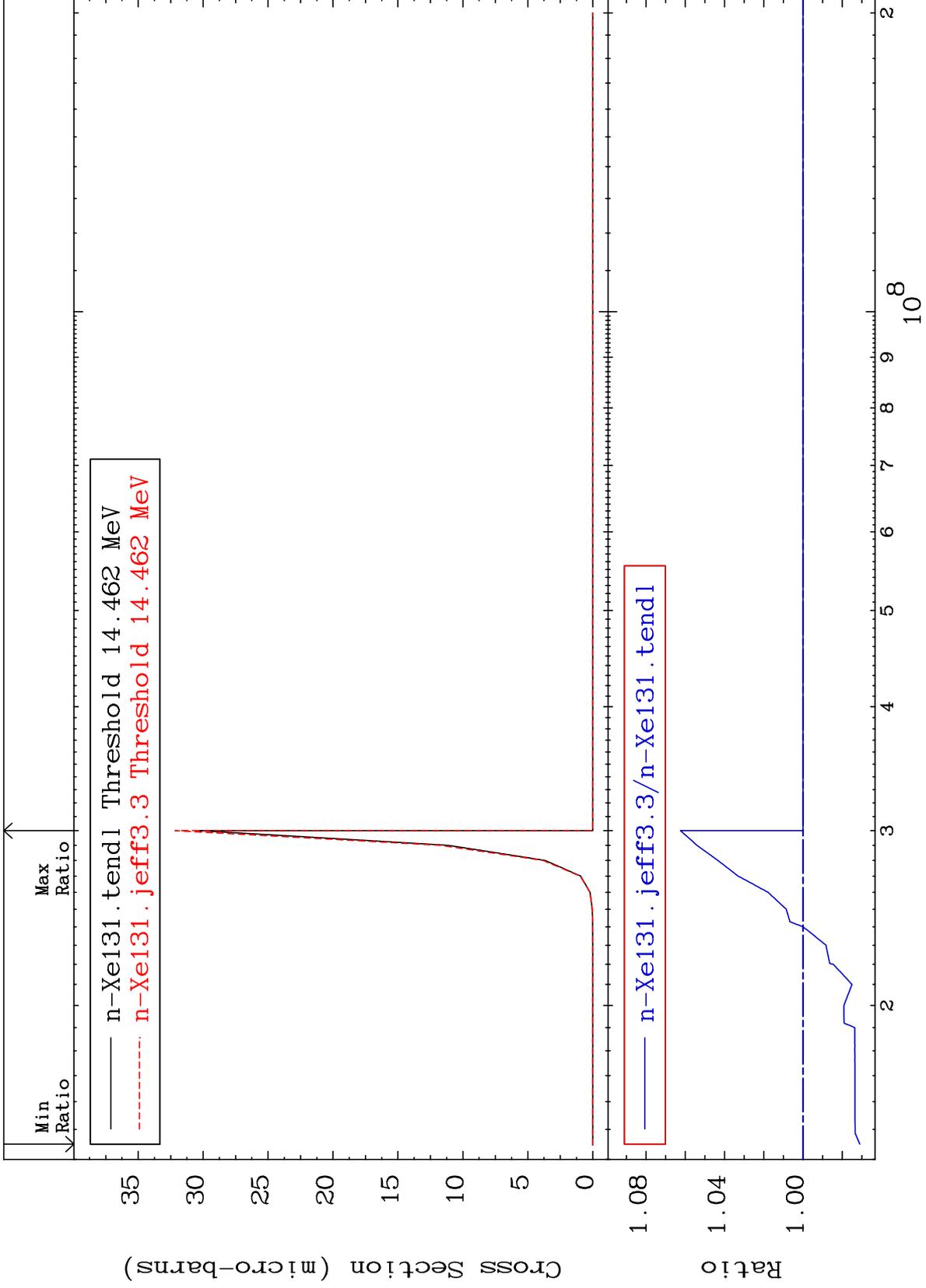
To 6.137 %



MAT 5446

(n, n') He-3
Cross Section

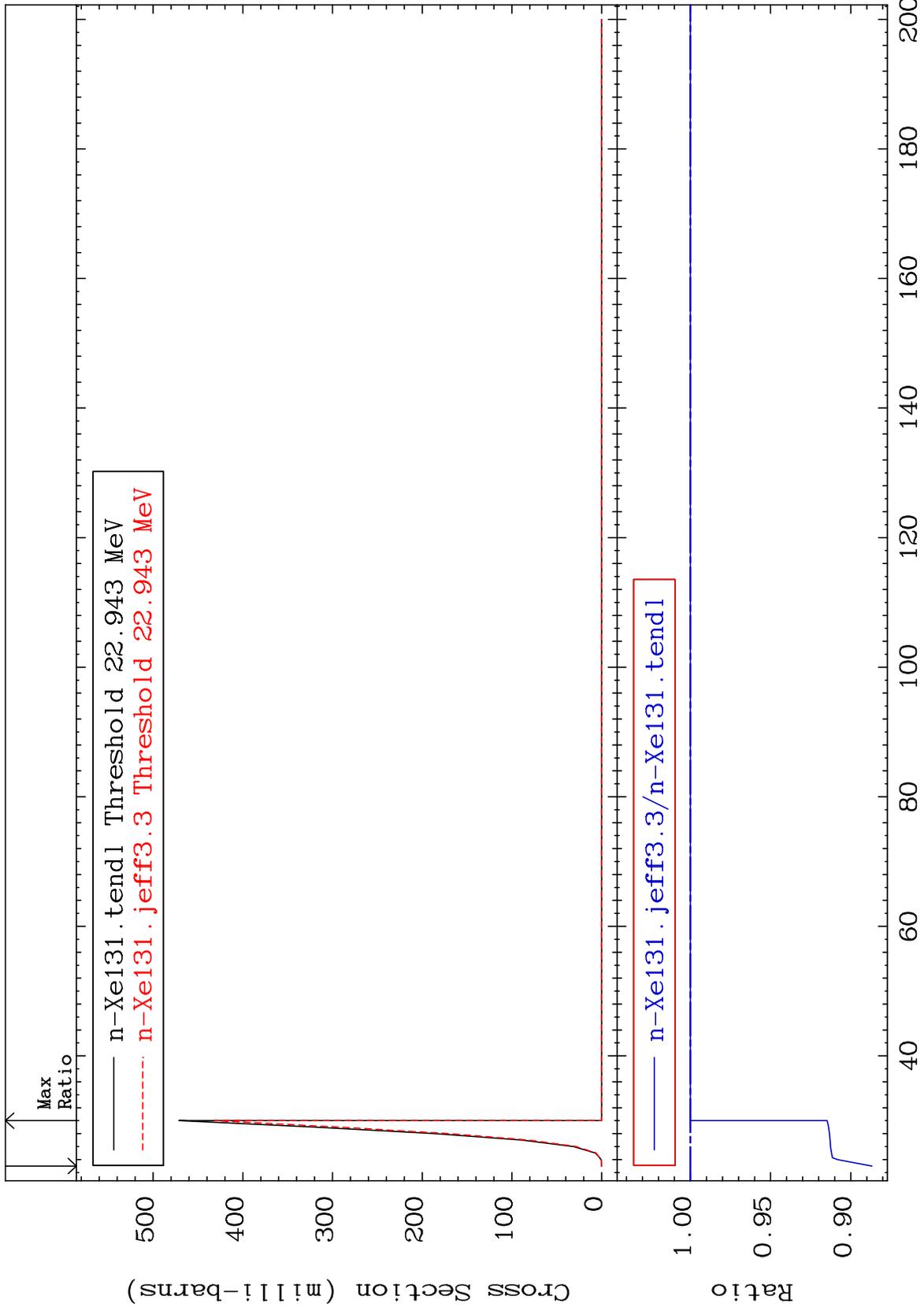
54-Xe-131
-2.897 To 6.242 %



MAT 5446

(n,4n)
Cross Section

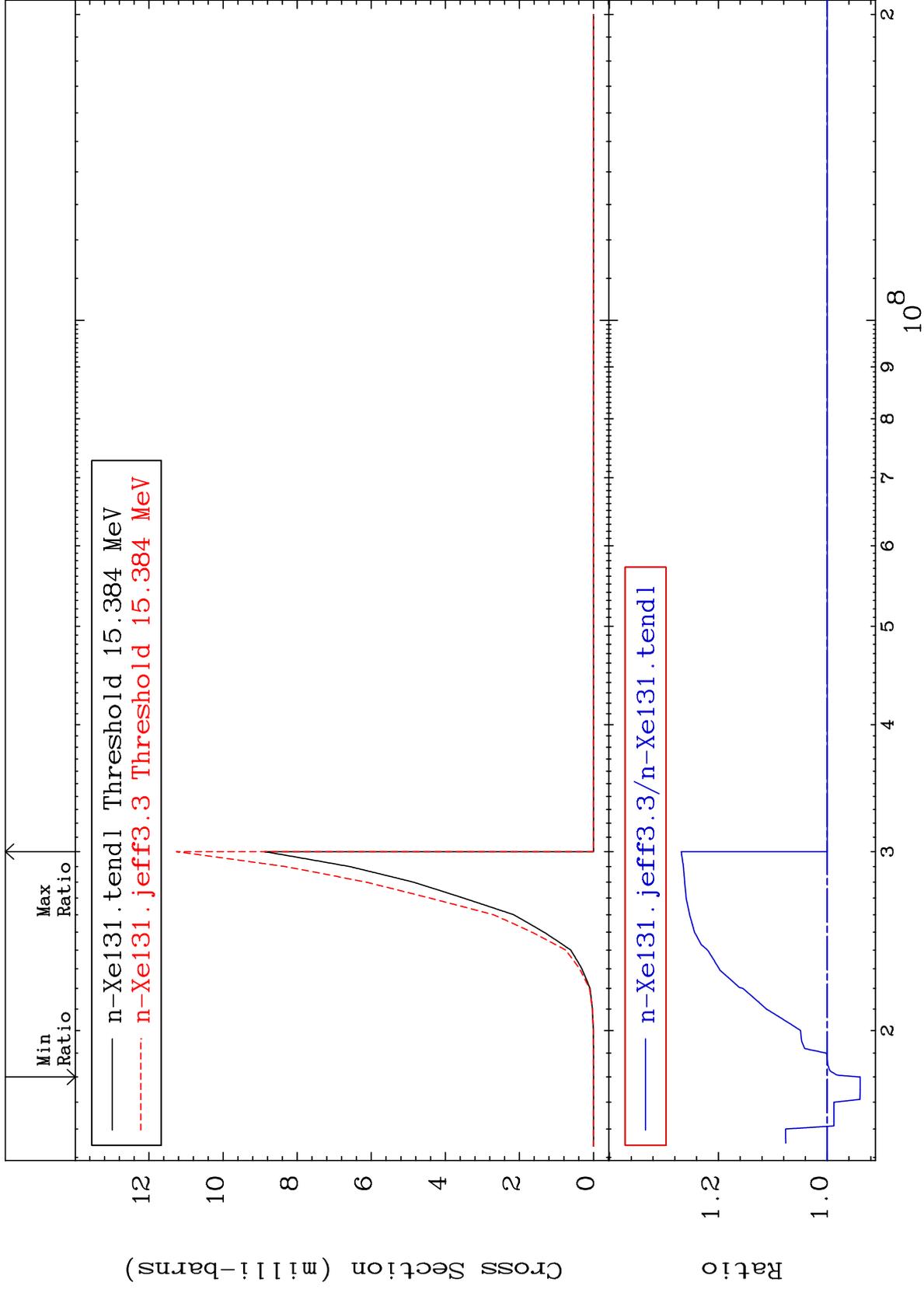
54-Xe-131
-11.32 To 0.000 %



MAT 5446

(n,2n) p
Cross Section

54-Xe-131
-6.056 To 26.83 %



15

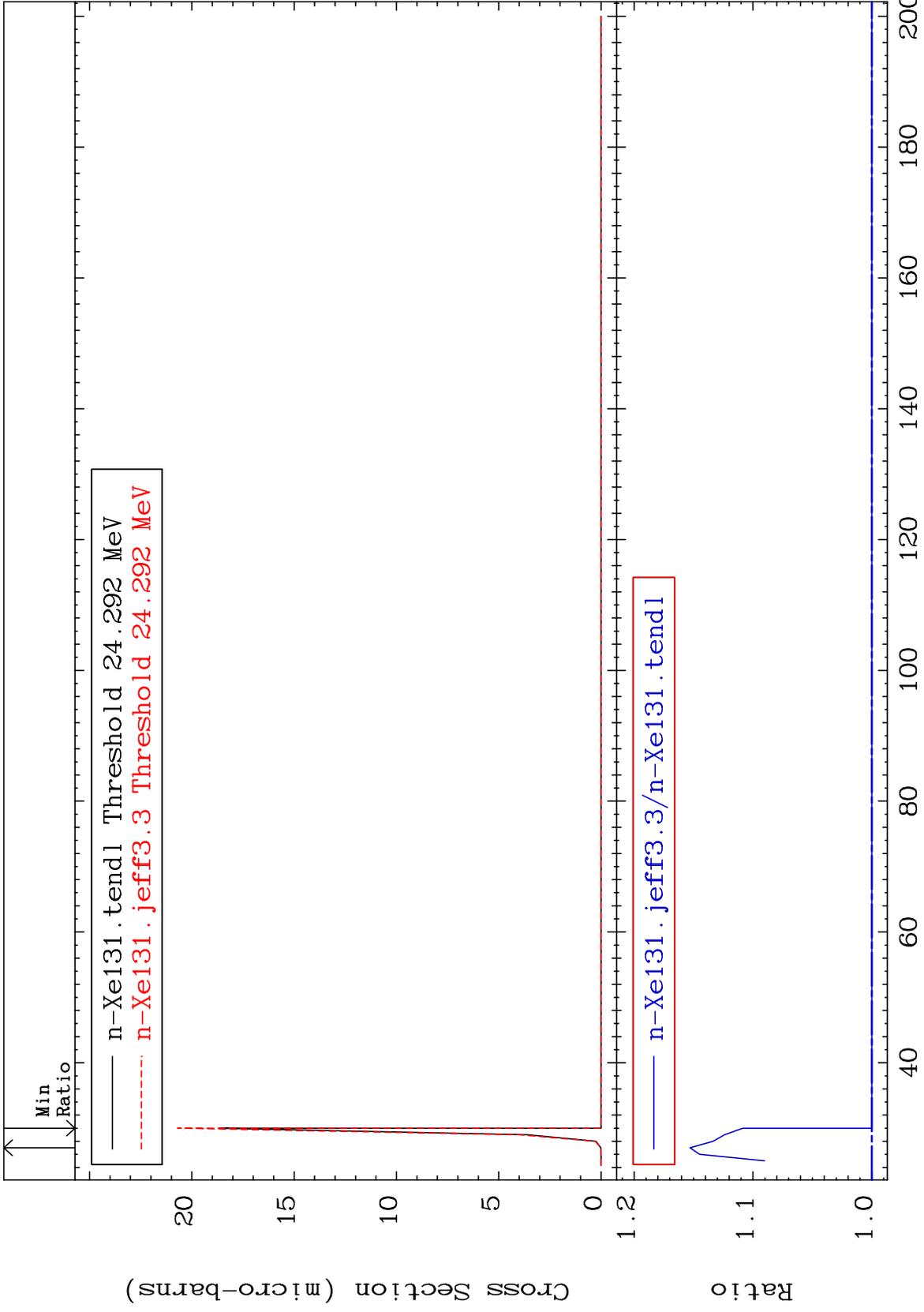
Incident Energy (eV)

54-Xe-131

MAT 5446

(n,3n) p
Cross Section

54-Xe-131
0.000 To 15.29 %



16

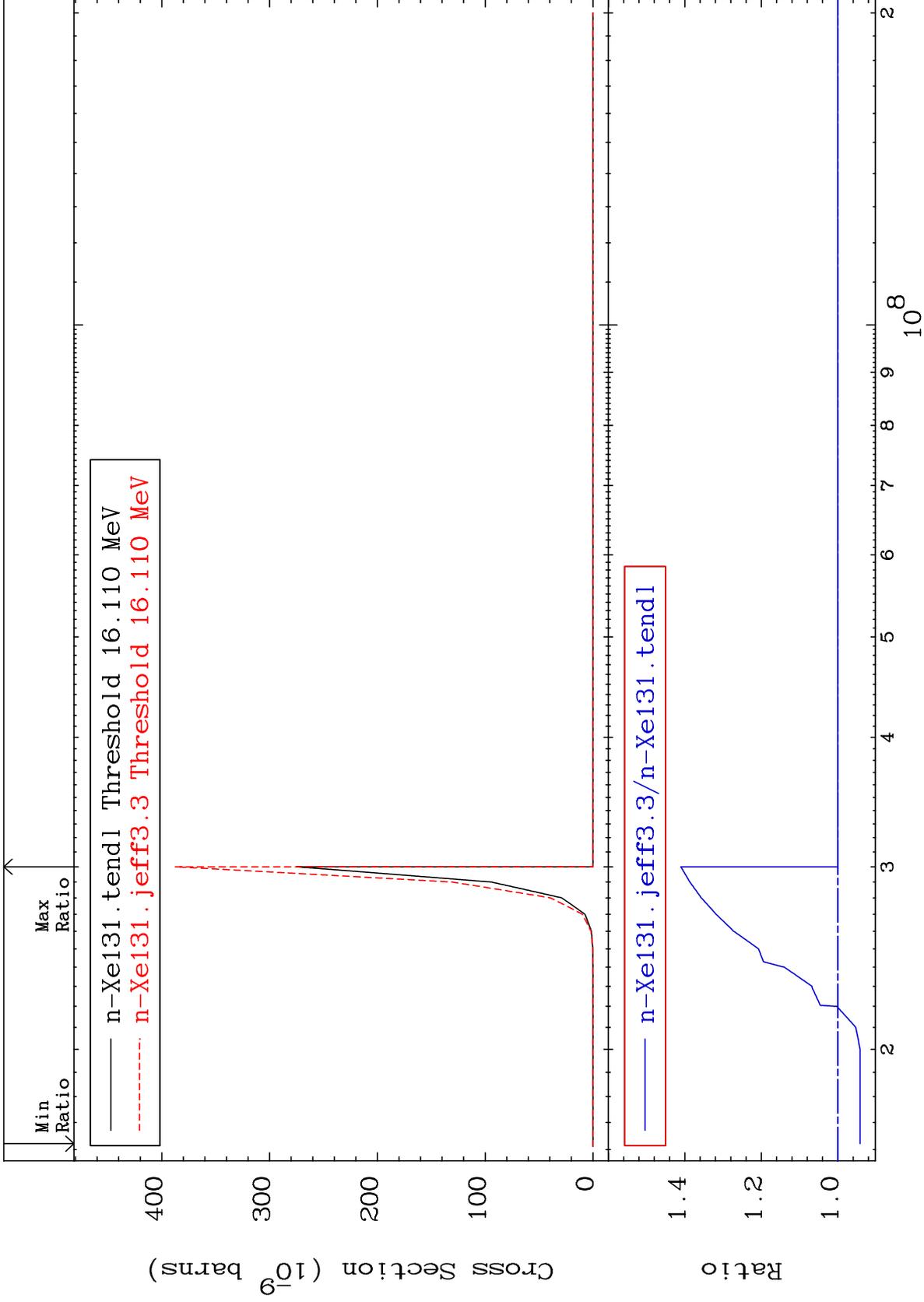
Incident Energy (MeV)

54-Xe-131

MAT 5446

(n,2n) p
Cross Section

54-Xe-131
-5.820 To 41.07 %



17

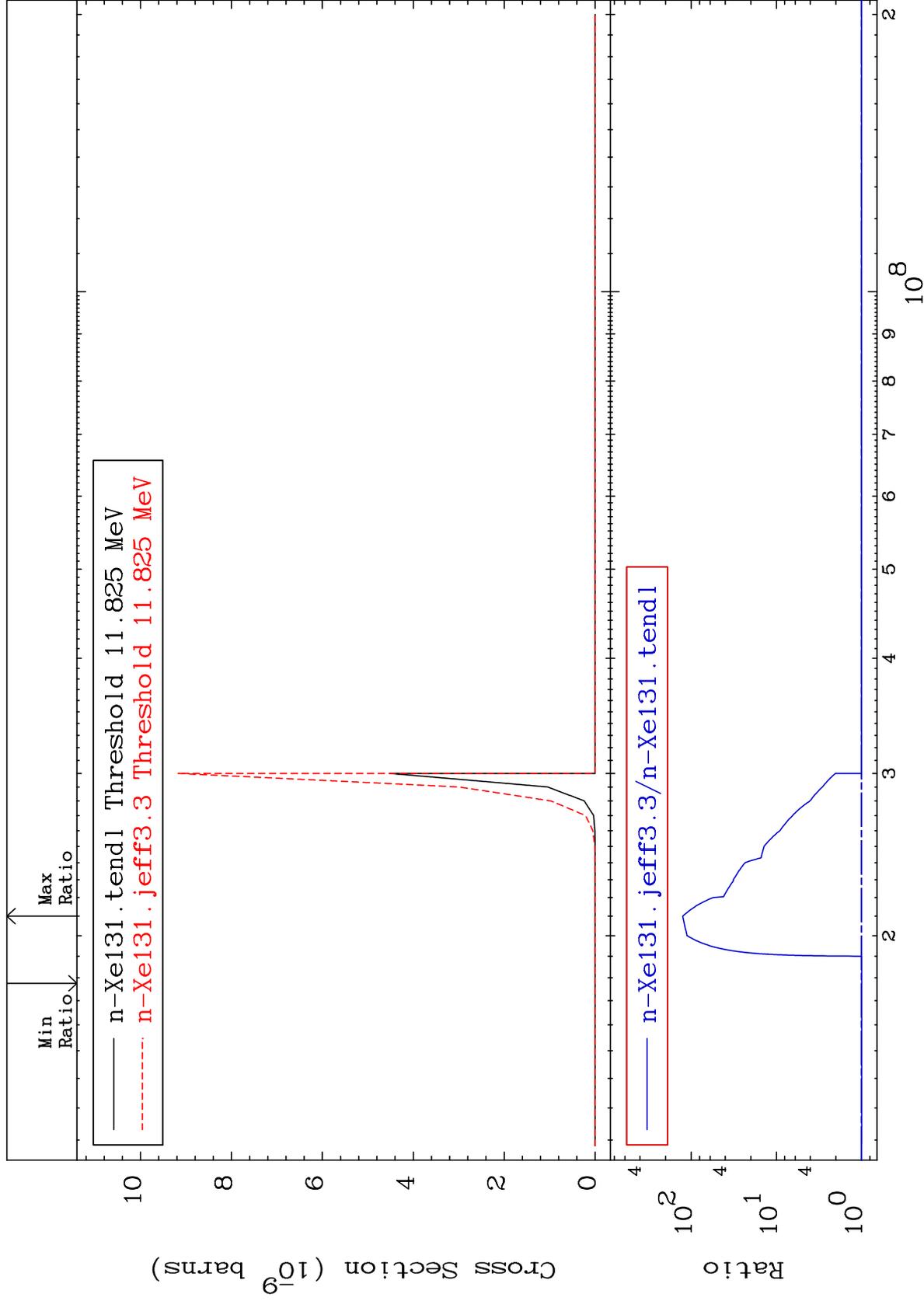
Incident Energy (eV)

54-Xe-131

MAT 5446

(n,n') p α
Cross Section

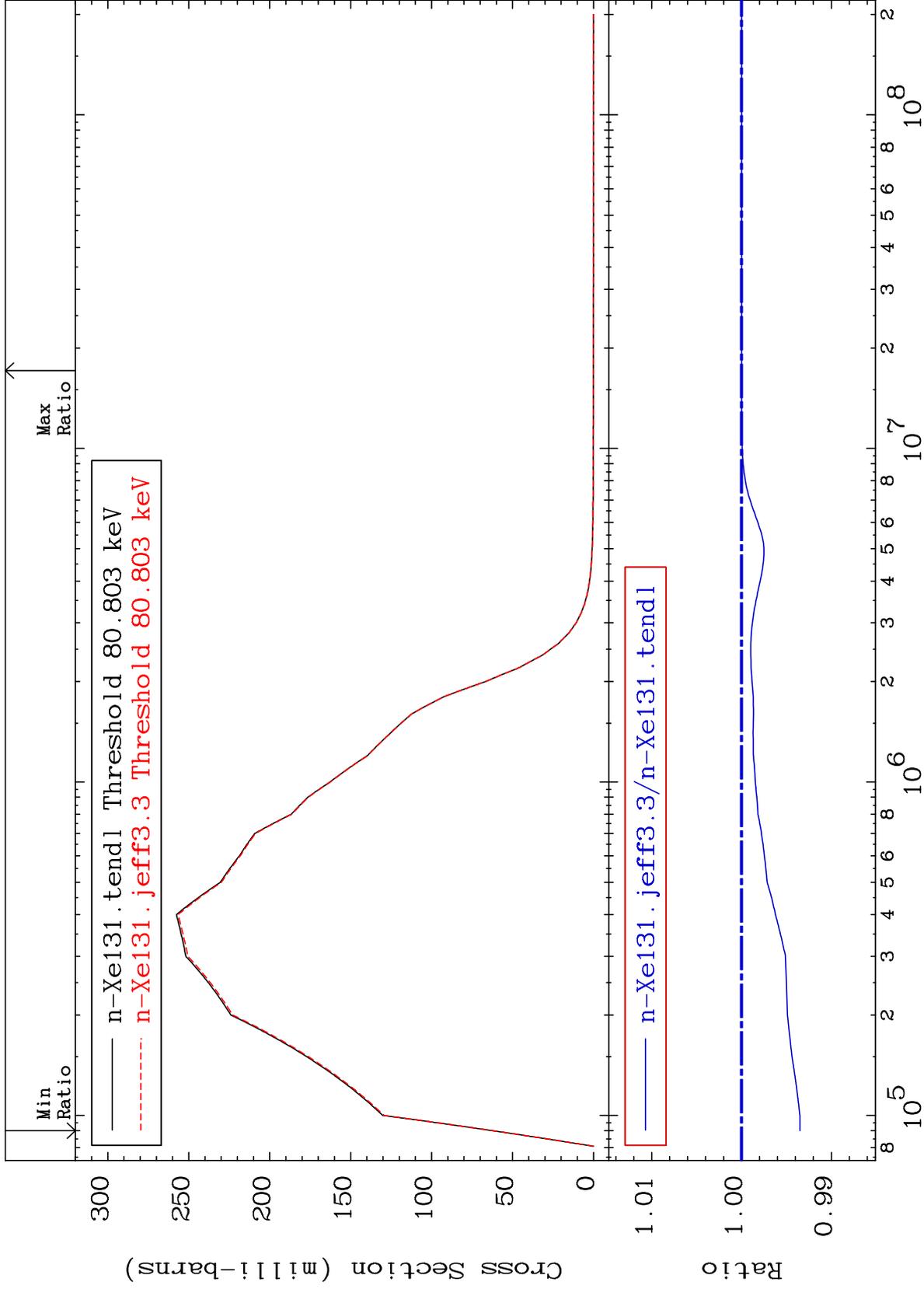
54-Xe-131
-0.439 To 9999. %



MAT 5446

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

54-Xe-131
-0.650 To 0.000 %



19

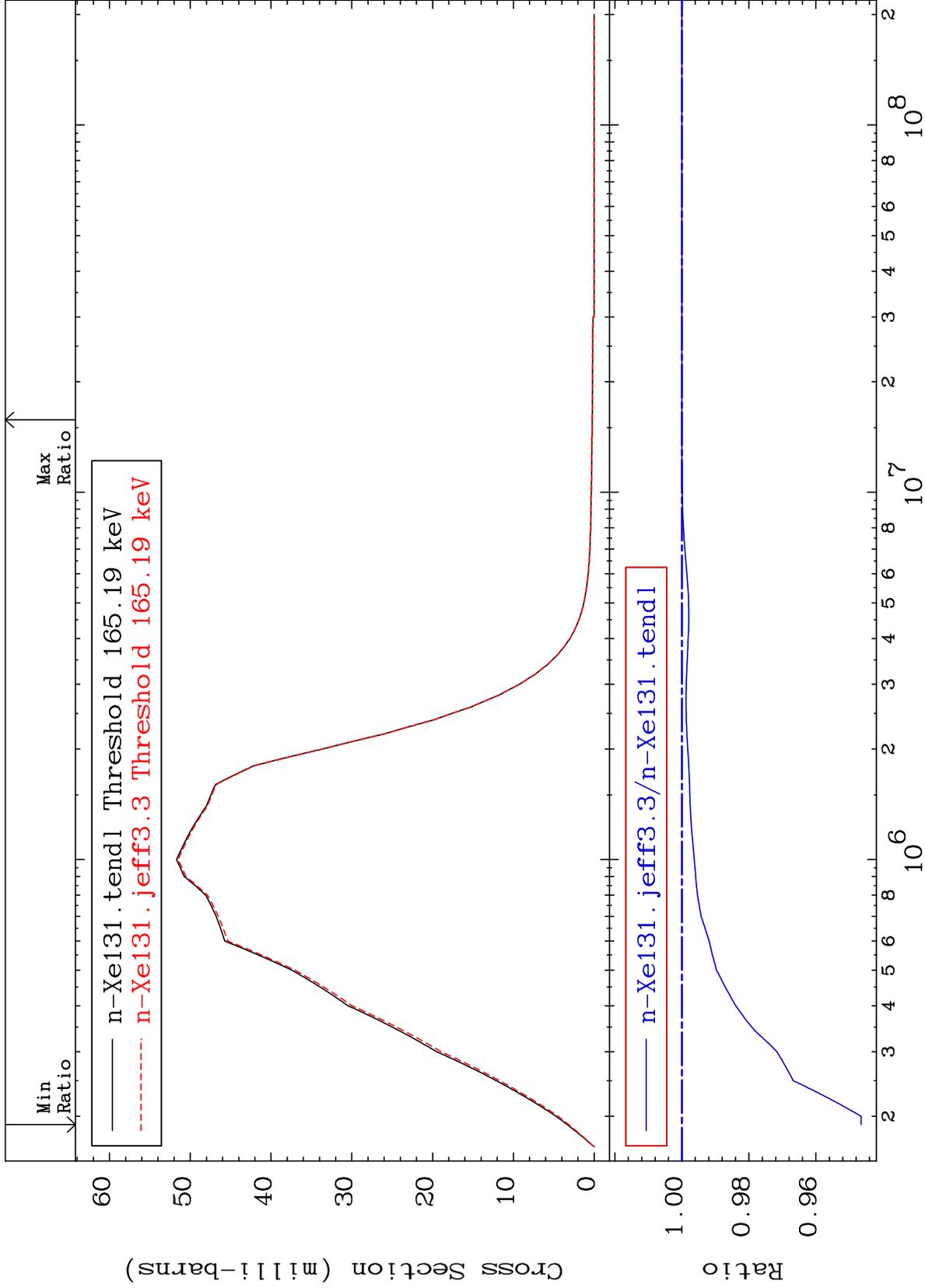
Incident Energy (eV)

54-Xe-131

MAT 5446

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

54-Xe-131
-5.349 To 0.000 %



20

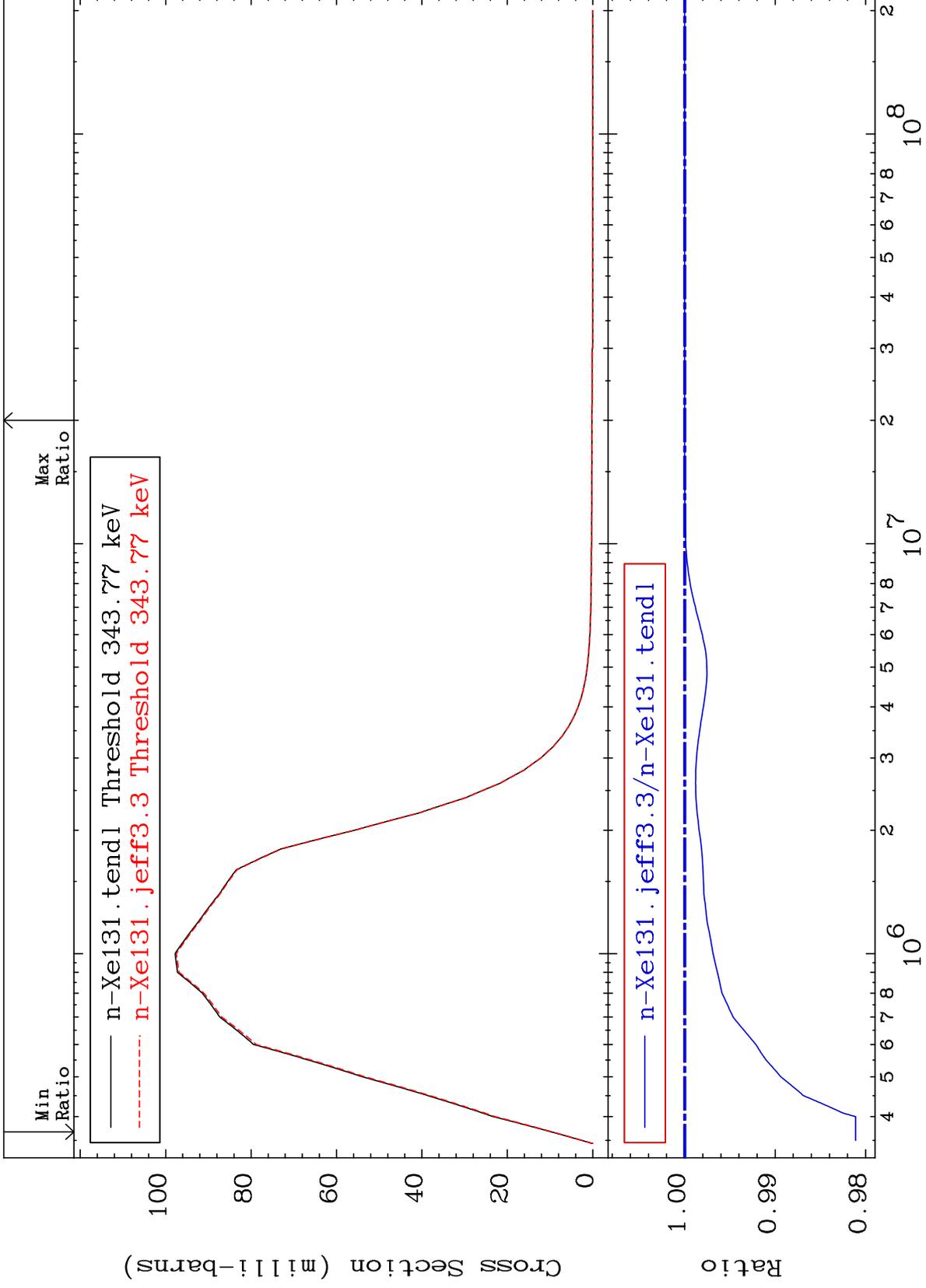
Incident Energy (eV)

54-Xe-131

MAT 5446

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

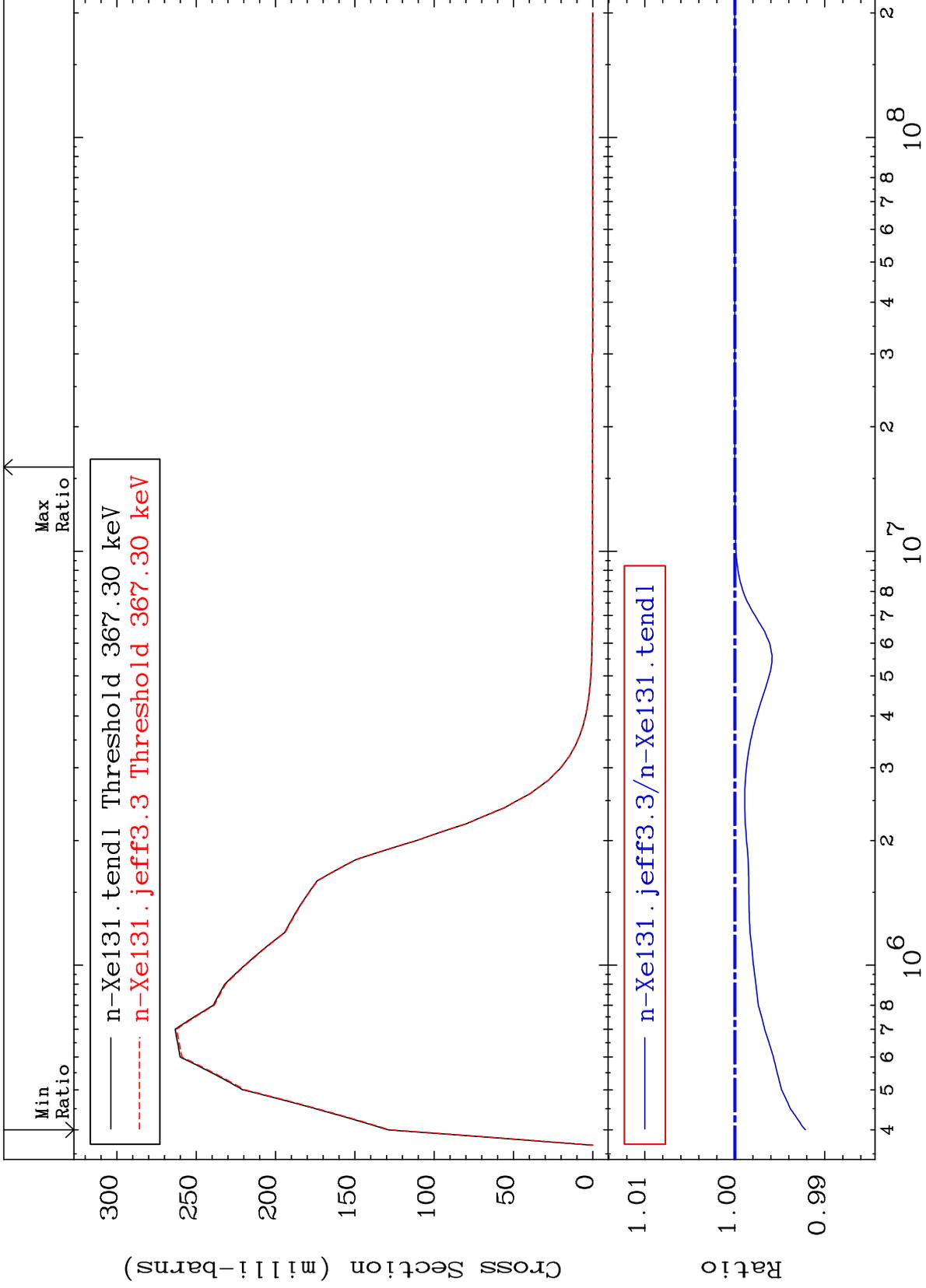
54-Xe-131
-1.889 To 0.000 %



MAT 5446

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

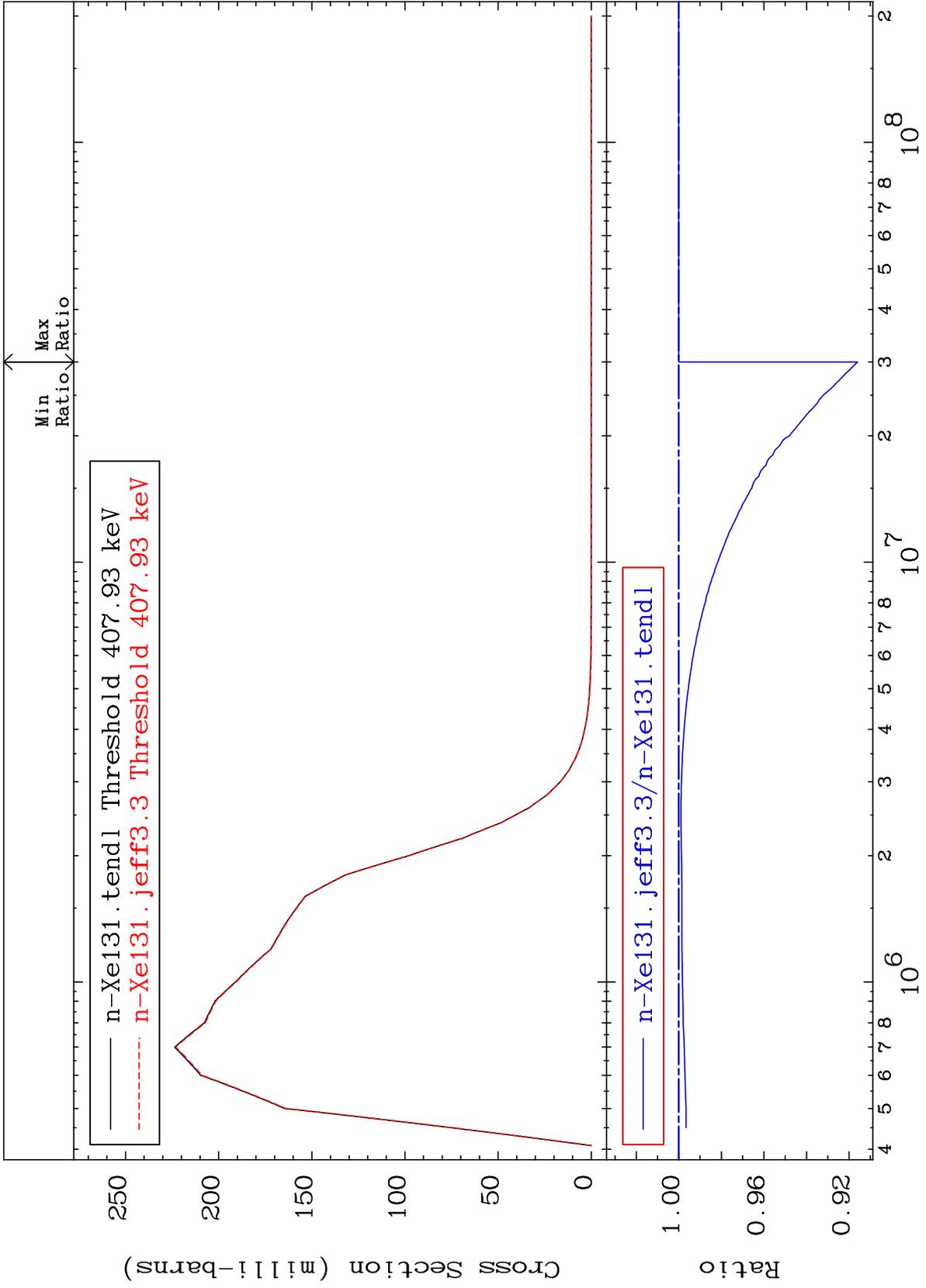
54-Xe-131
-0.785 To 0.000 %



MAT 5446

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

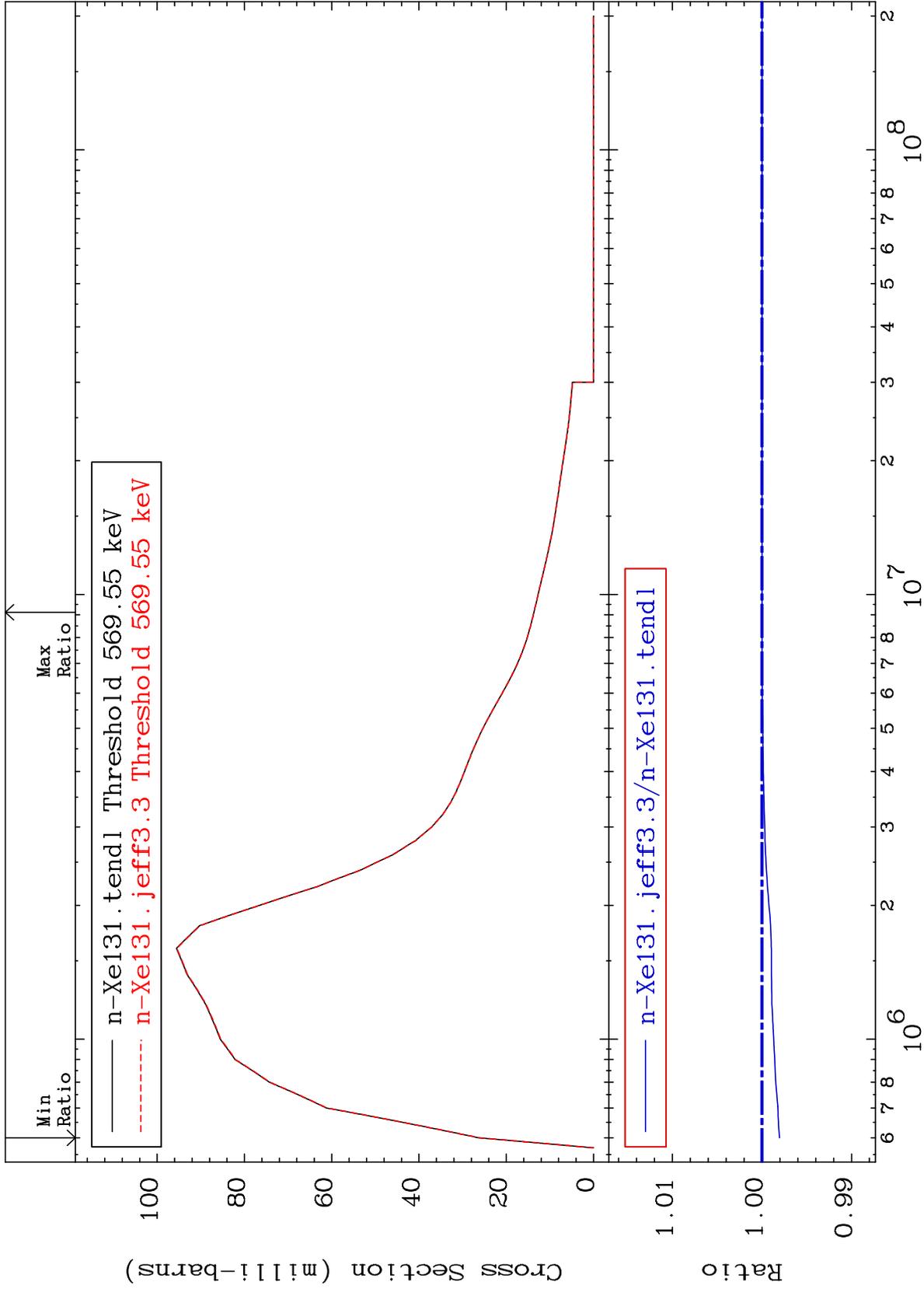
54-Xe-131
-8.401 To 0.000 %



MAT 5446

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

54-Xe-131
-0.195 To 0.000 %



24

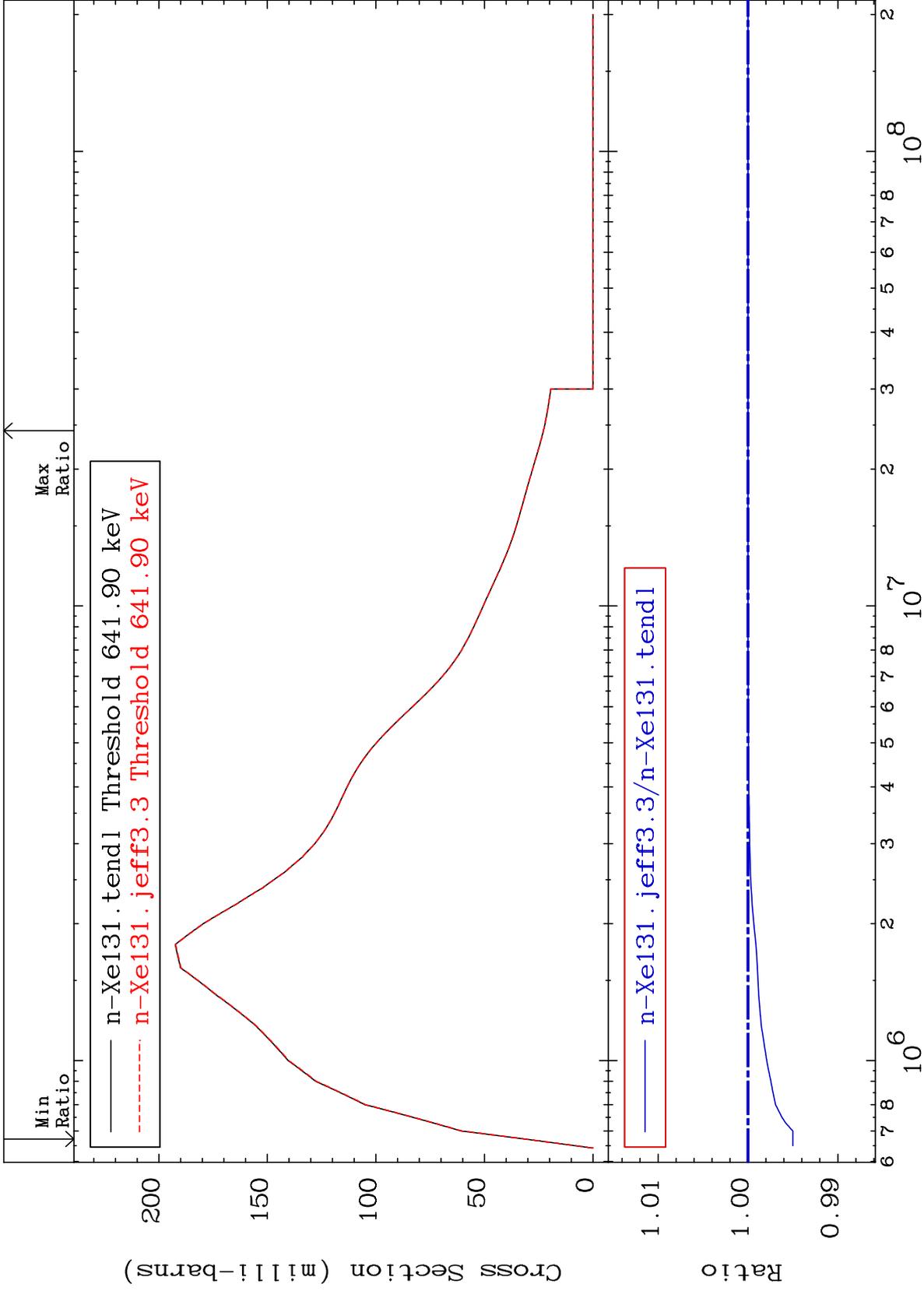
Incident Energy (eV)

54-Xe-131

MAT 5446

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

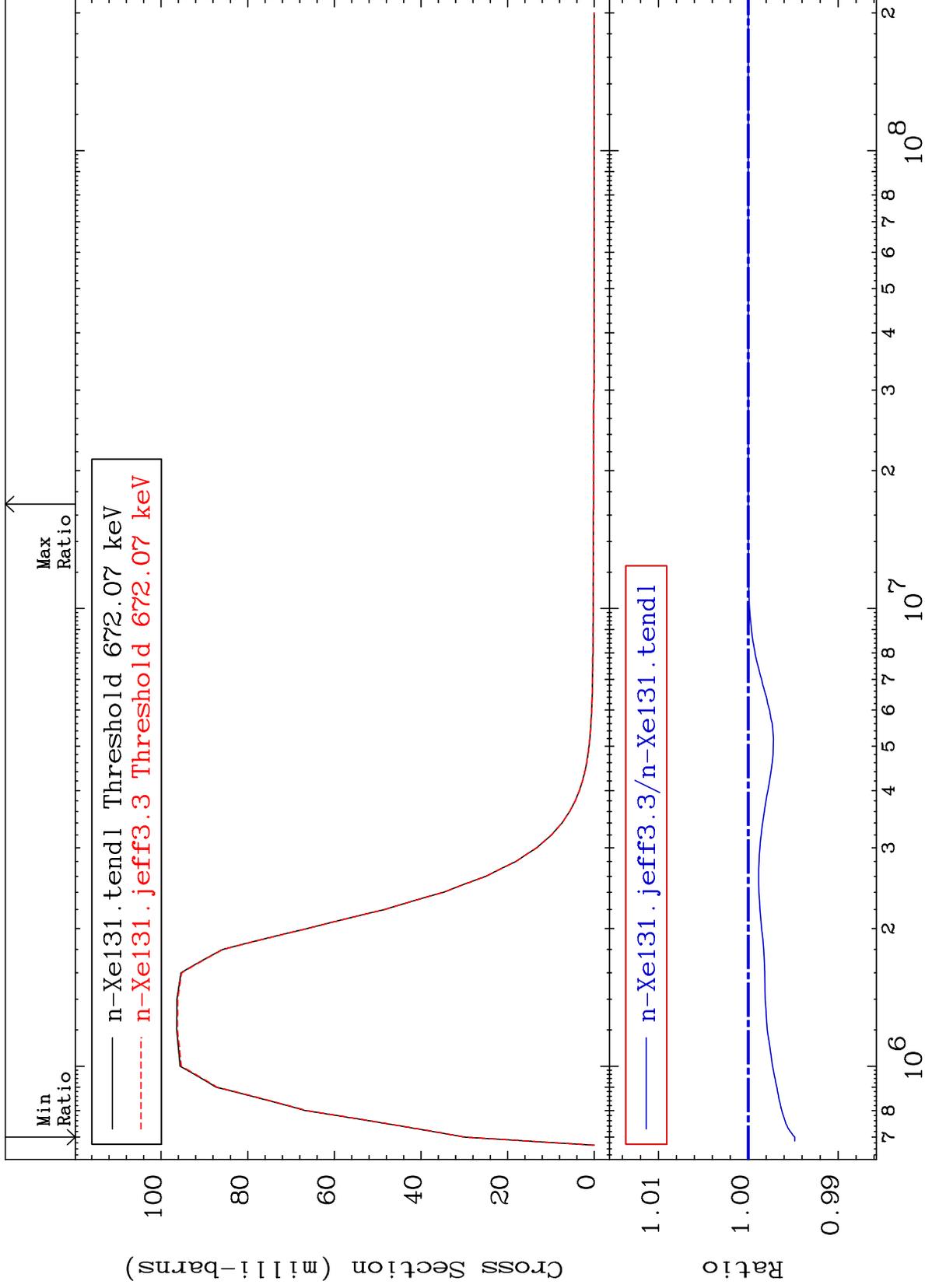
54-Xe-131
-0.500 To 0.000 %



MAT 5446

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

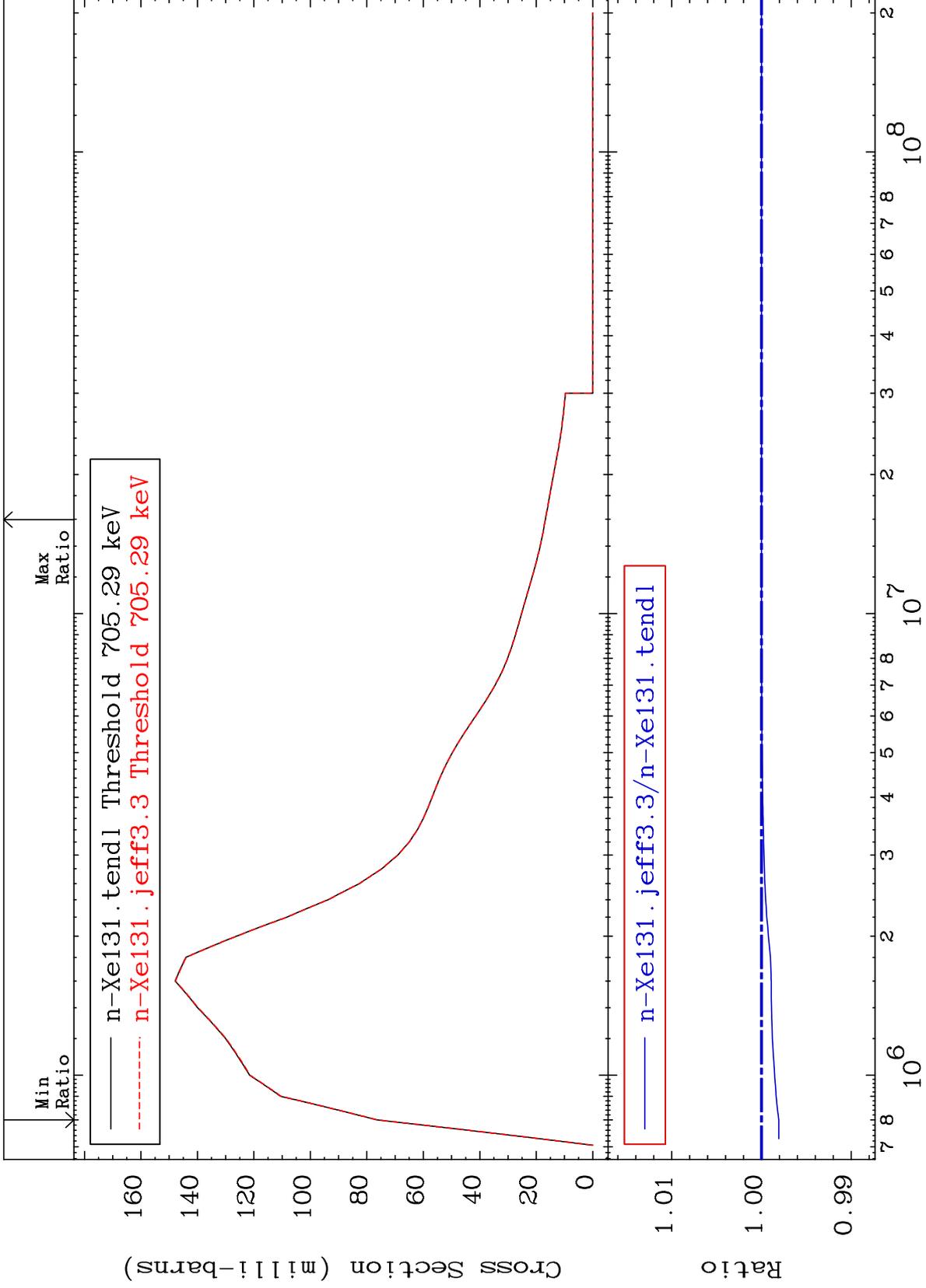
54-Xe-131
-0.518 To 0.000 %



MAT 5446

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

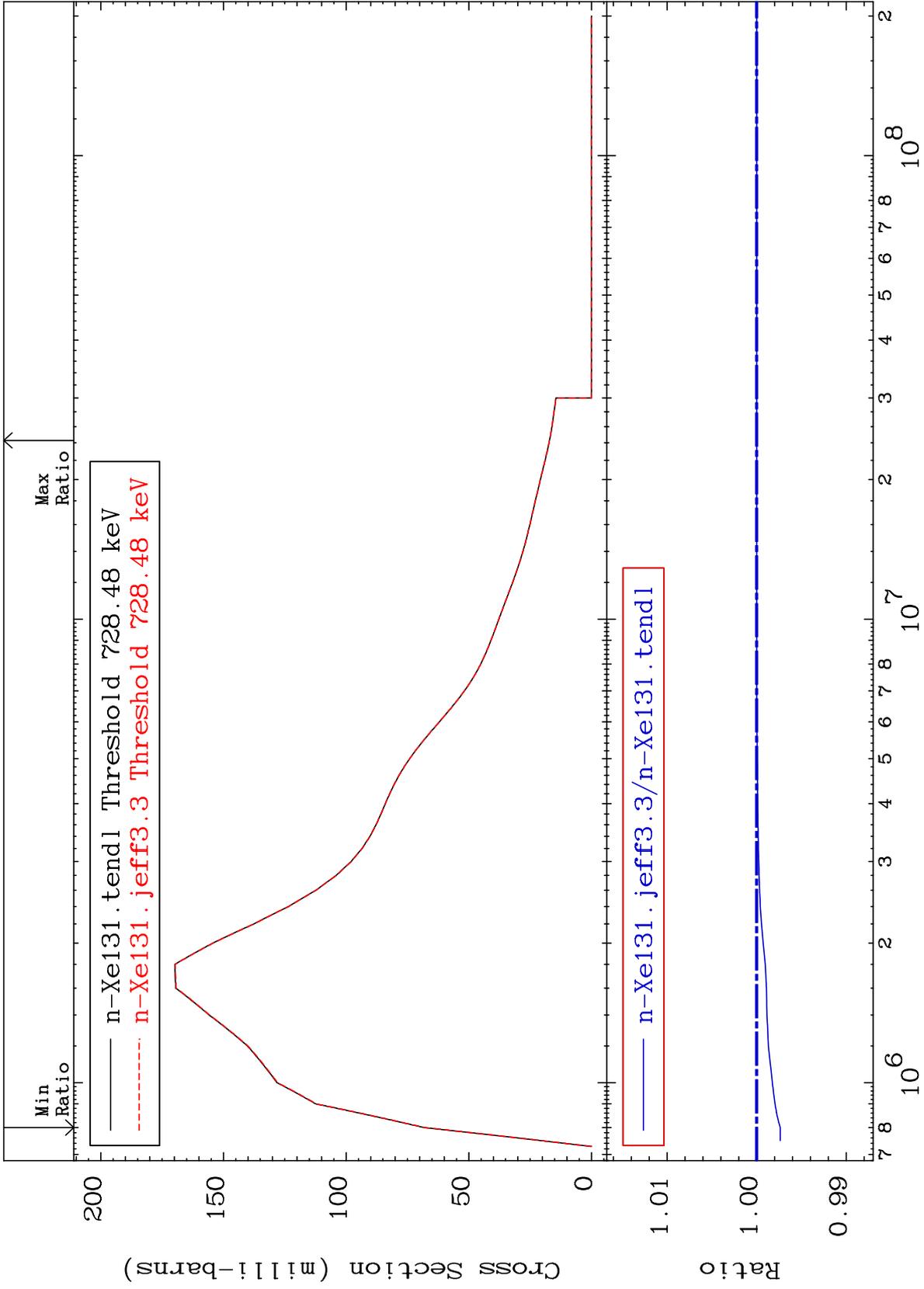
54-Xe-131
-0.194 To 0.000 %



MAT 5446

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

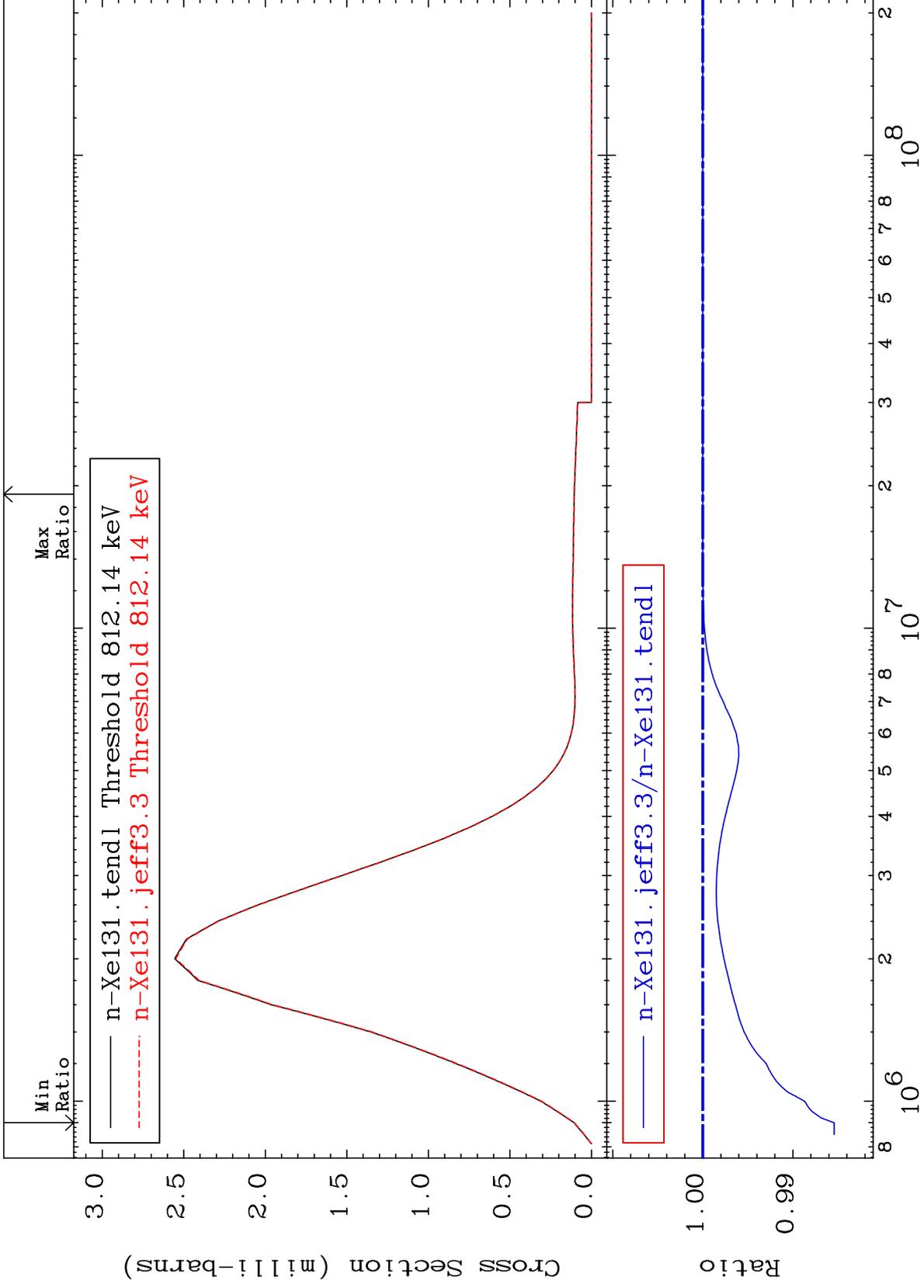
54-Xe-131
-0.264 To 0.000 %



MAT 5446

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

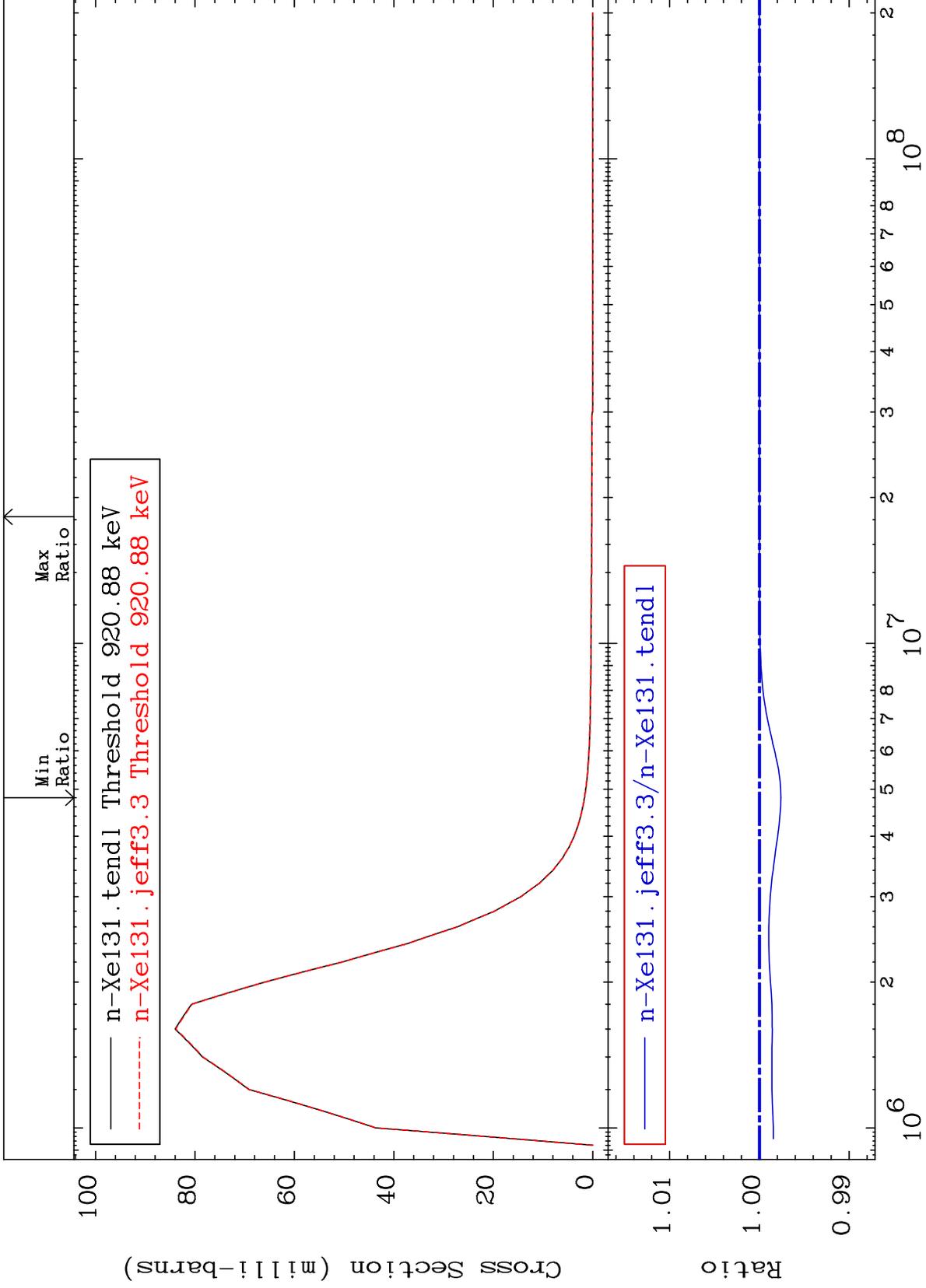
54-Xe-131
-1.459 To 0.000 %



MAT 5446

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

54-Xe-131
-0.238 To 0.000 %



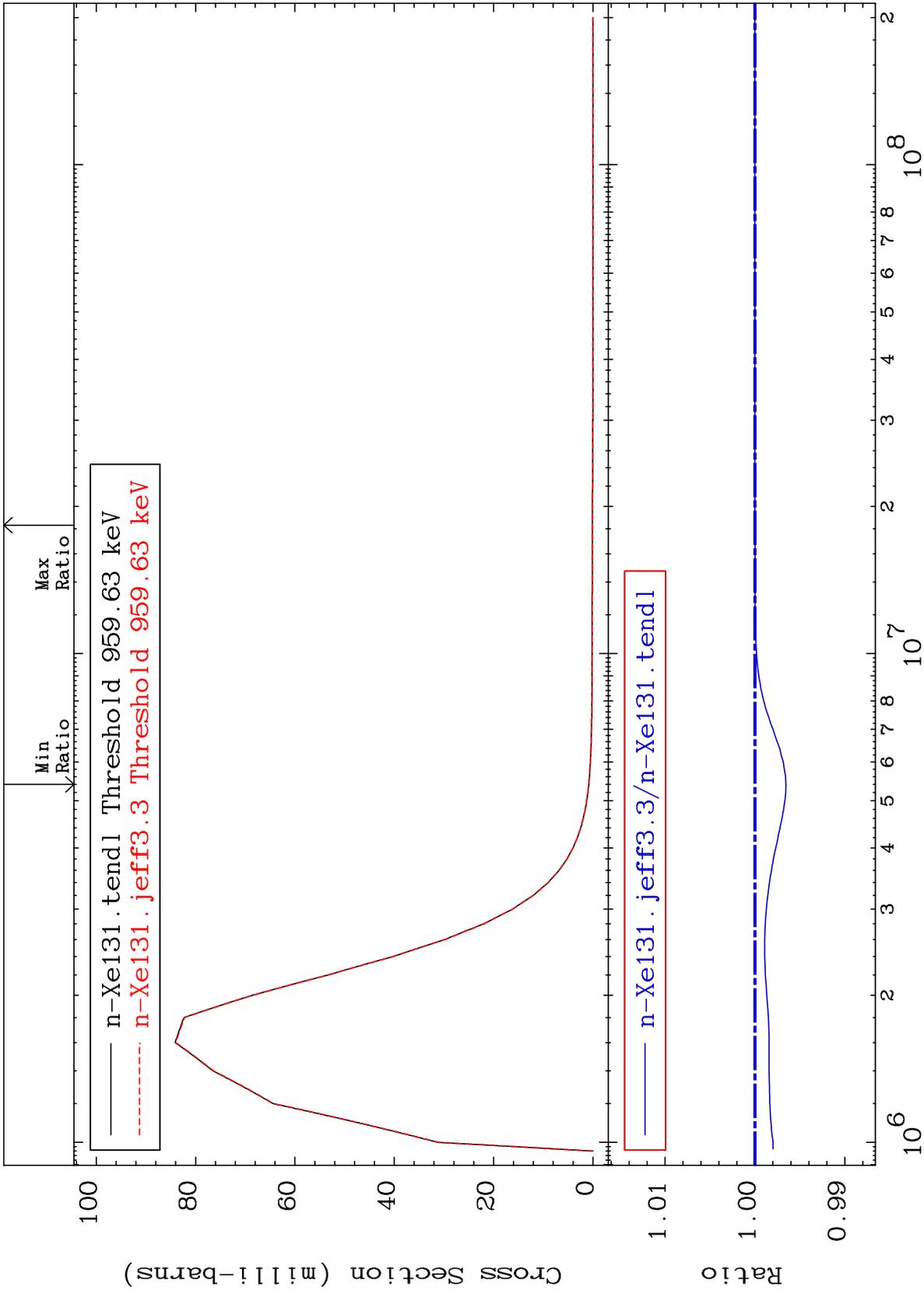
Incident Energy (eV)

54-Xe-131

MAT 5446

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

54-Xe-131
-0.345 To 0.000 %



31

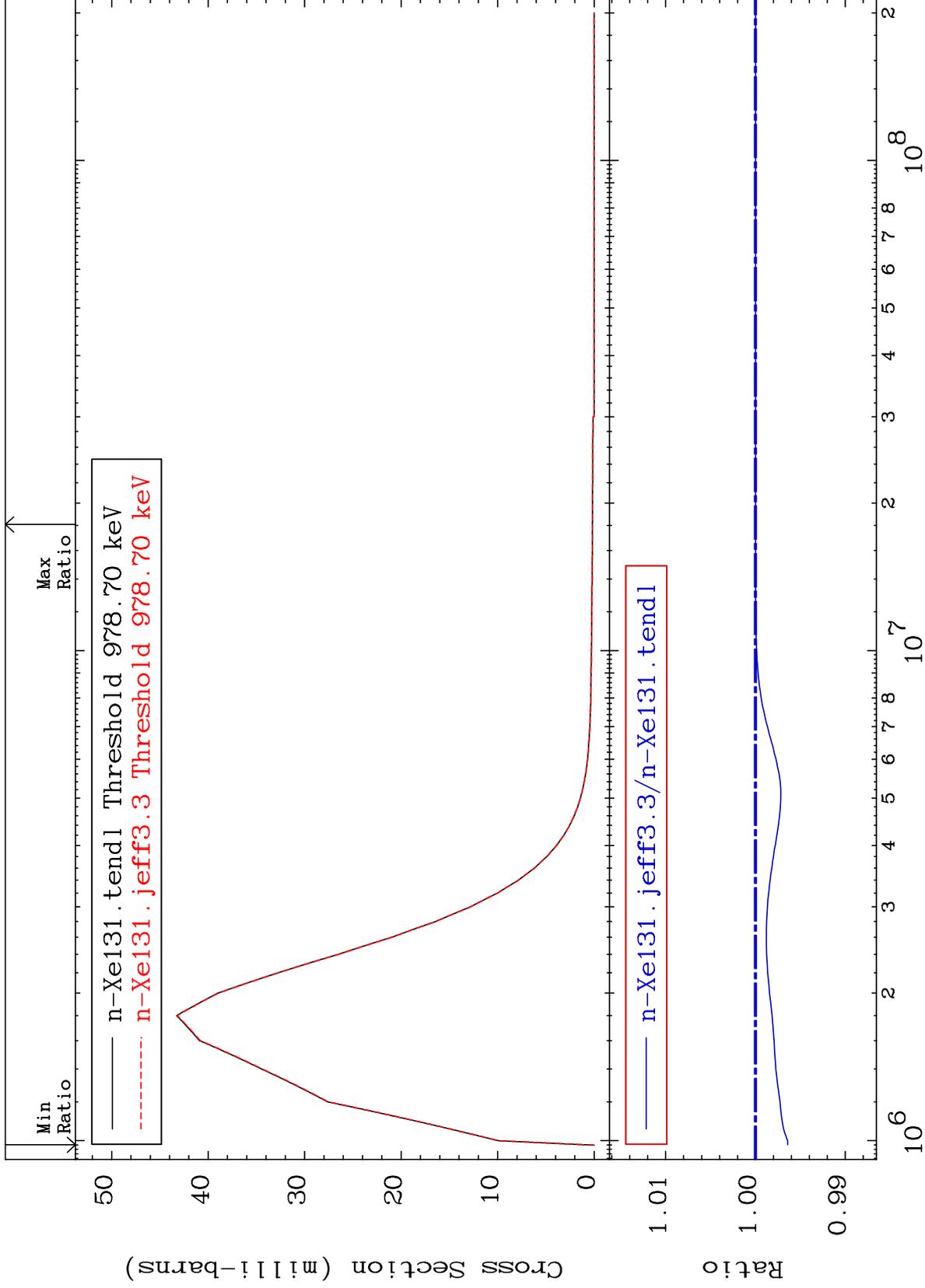
Incident Energy (eV)

54-Xe-131

MAT 5446

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

54-Xe-131
-0.358 To 0.000 %



32

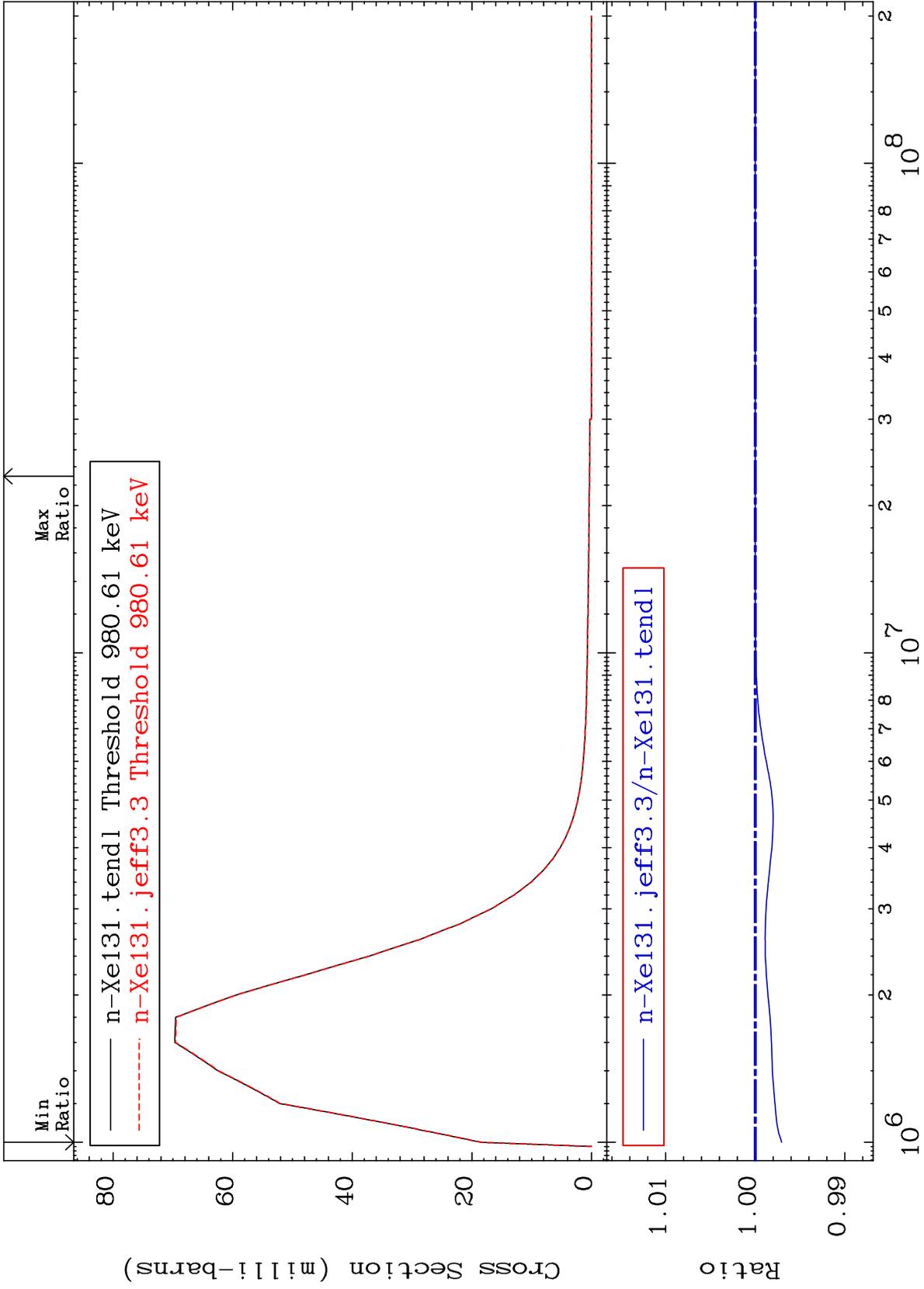
Incident Energy (eV)

54-Xe-131

MAT 5446

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

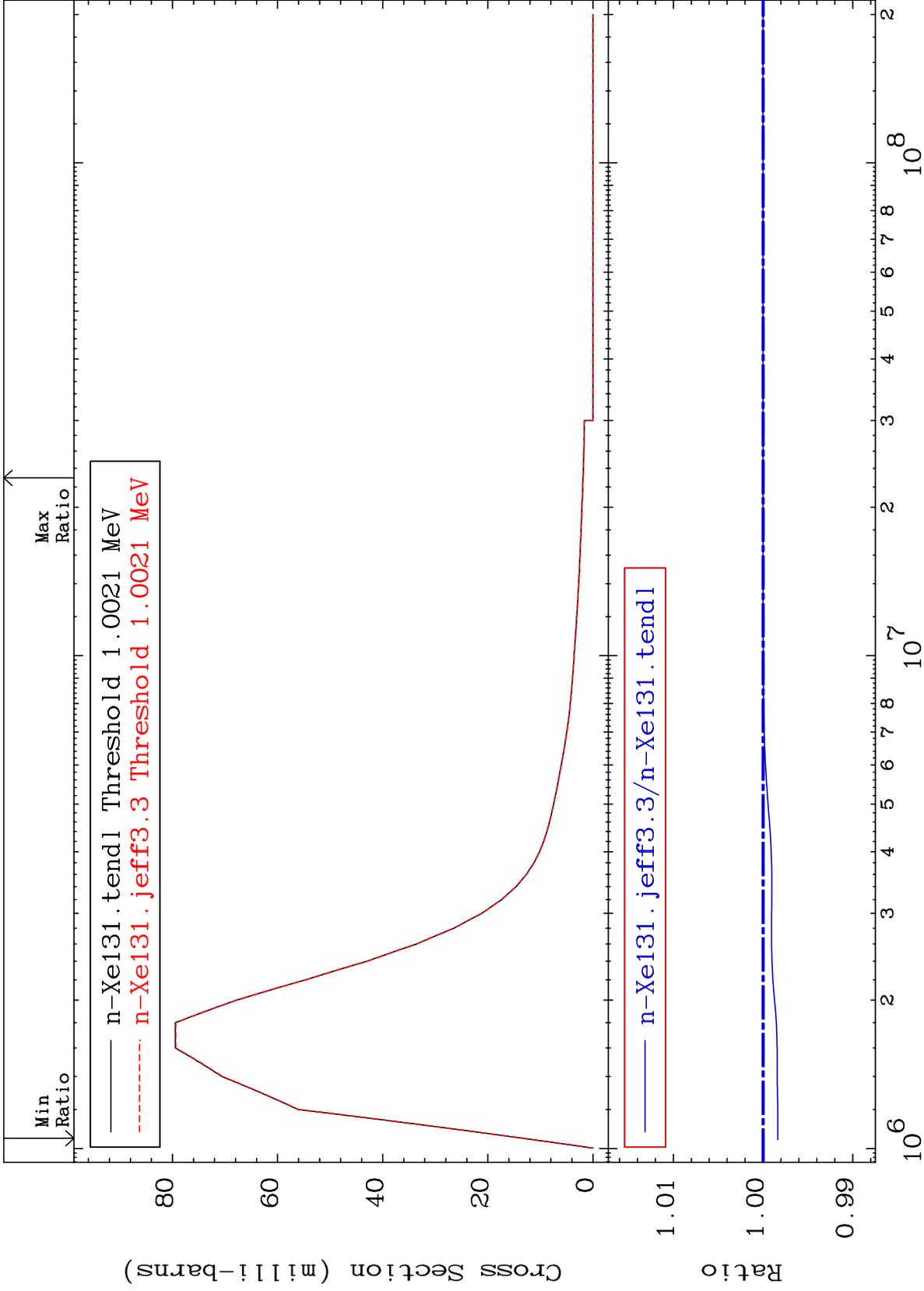
54-Xe-131
-0.297 To 0.000 %



MAT 5446

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

54-Xe-131
-0.164 To 0.000 %



34

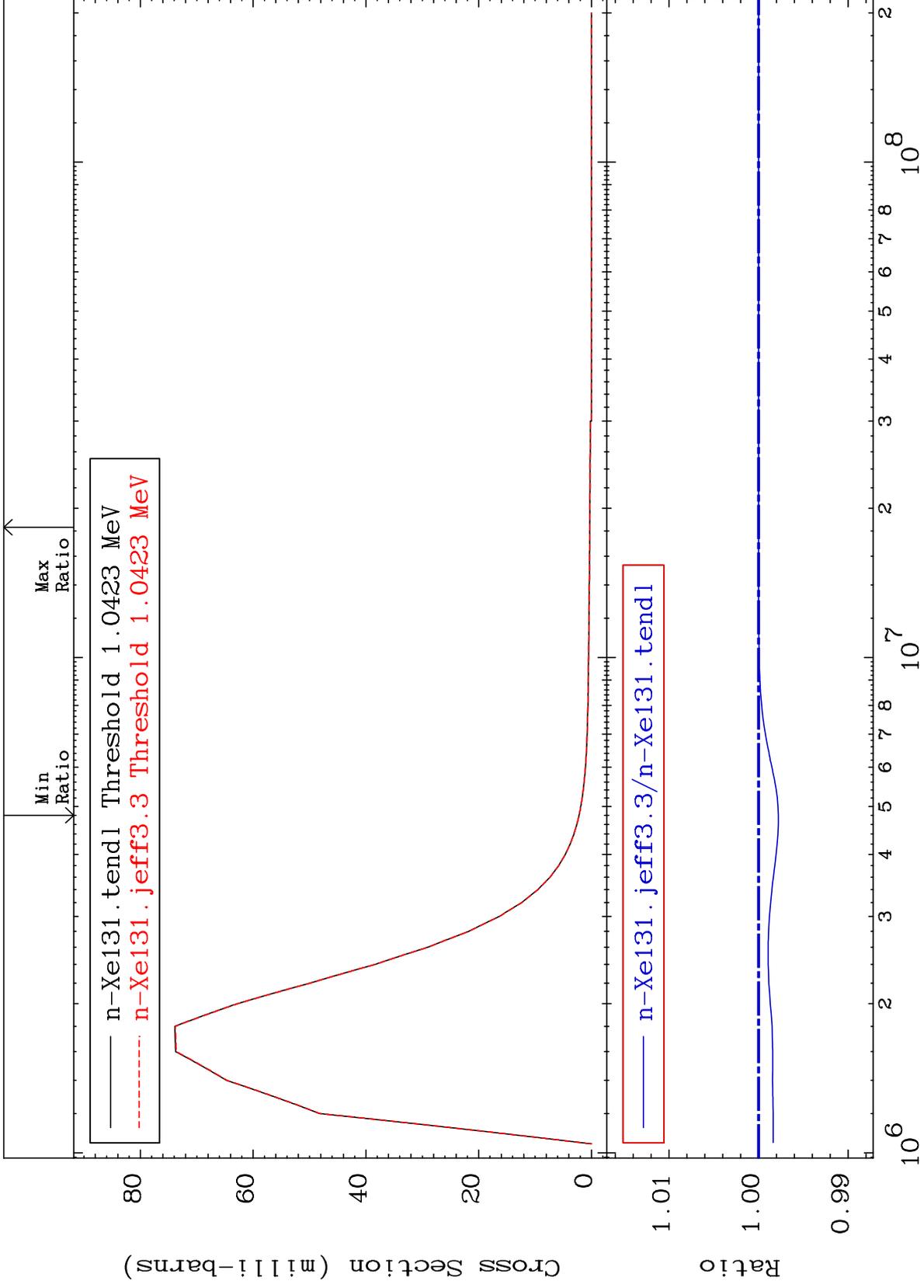
Incident Energy (eV)

54-Xe-131

MAT 5446

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

54-Xe-131
-0.221 To 0.000 %



35

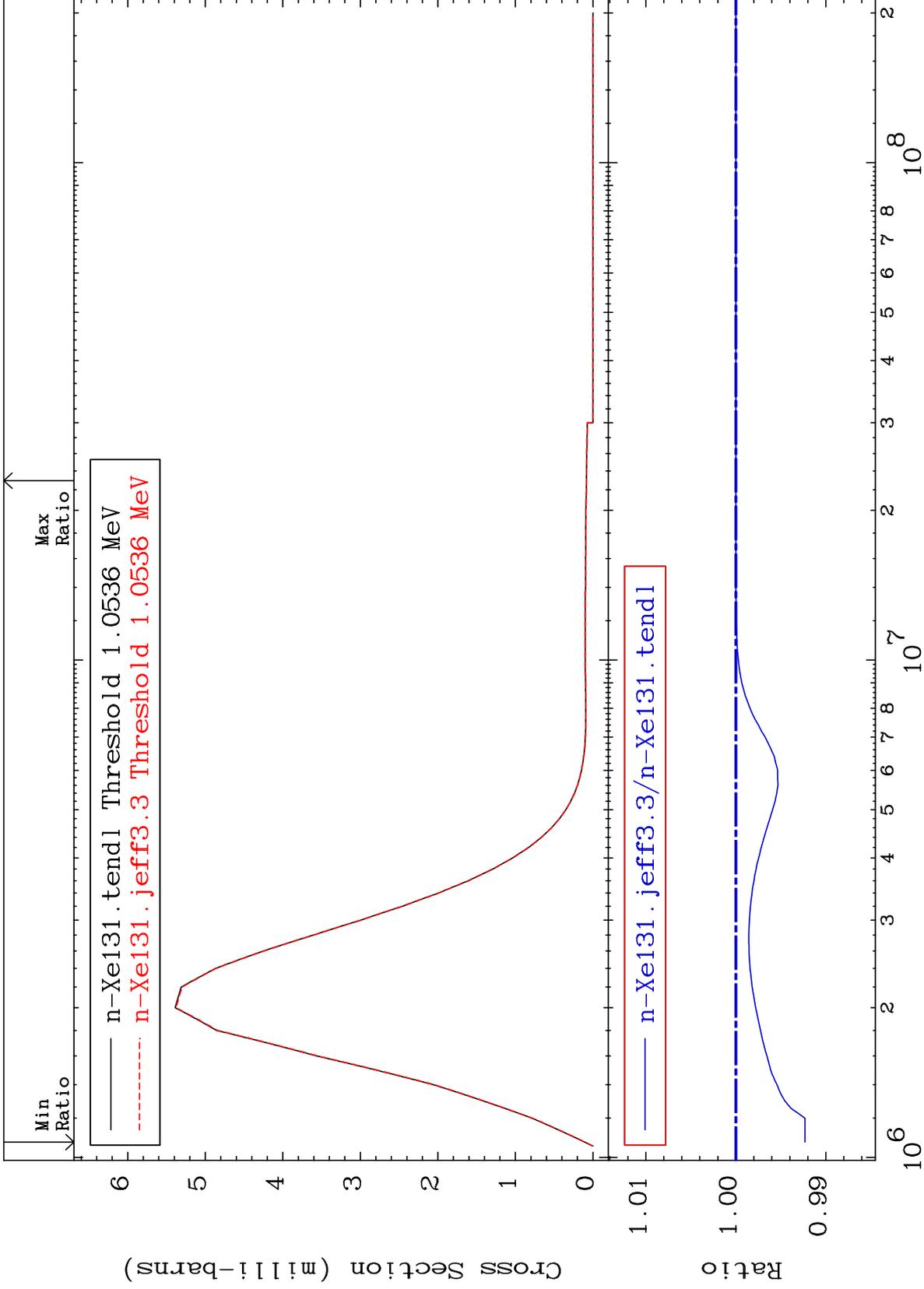
Incident Energy (eV)

54-Xe-131

MAT 5446

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

54-Xe-131
-0.769 To 0.000 %



36

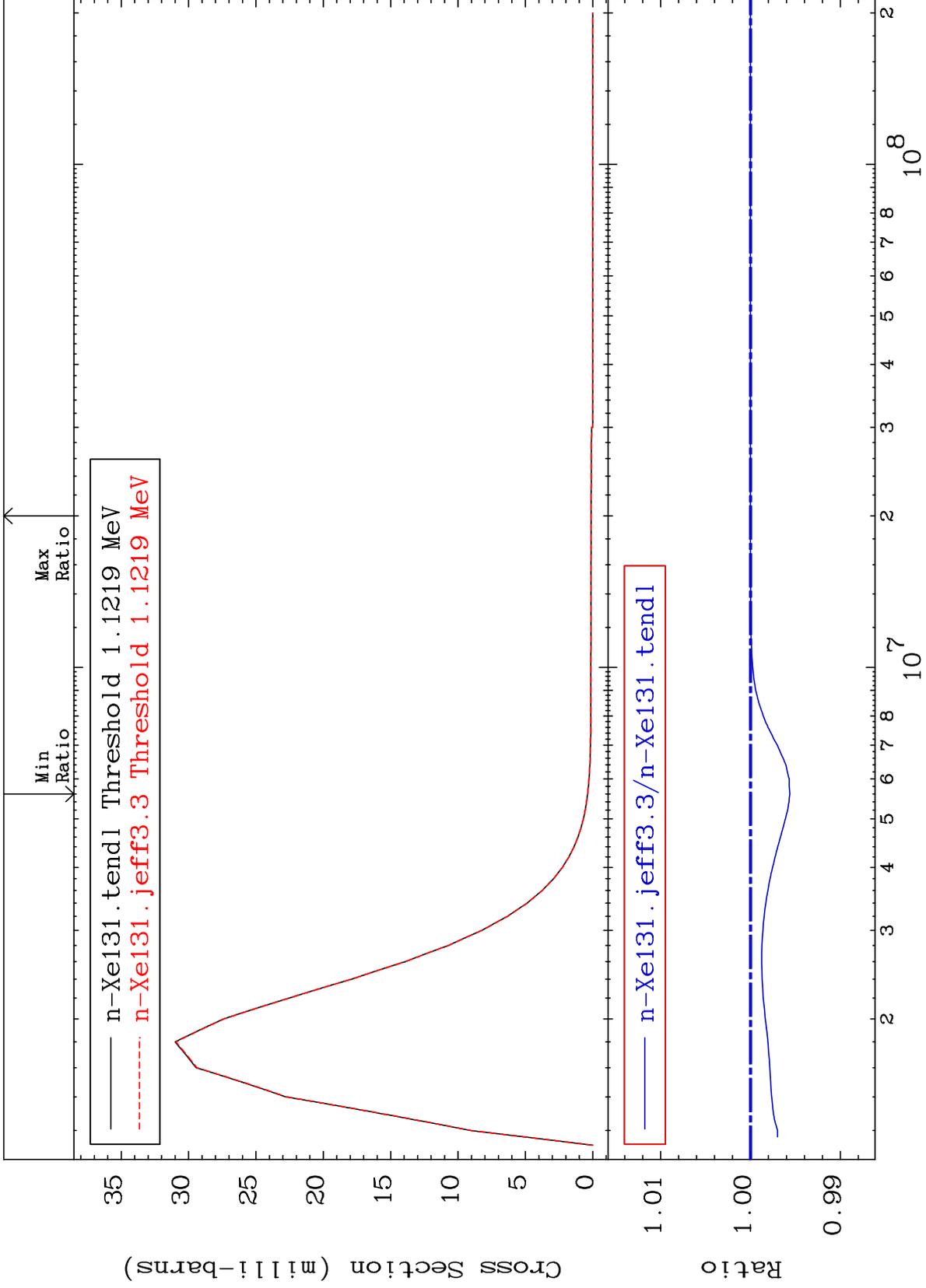
Incident Energy (eV)

54-Xe-131

MAT 5446

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

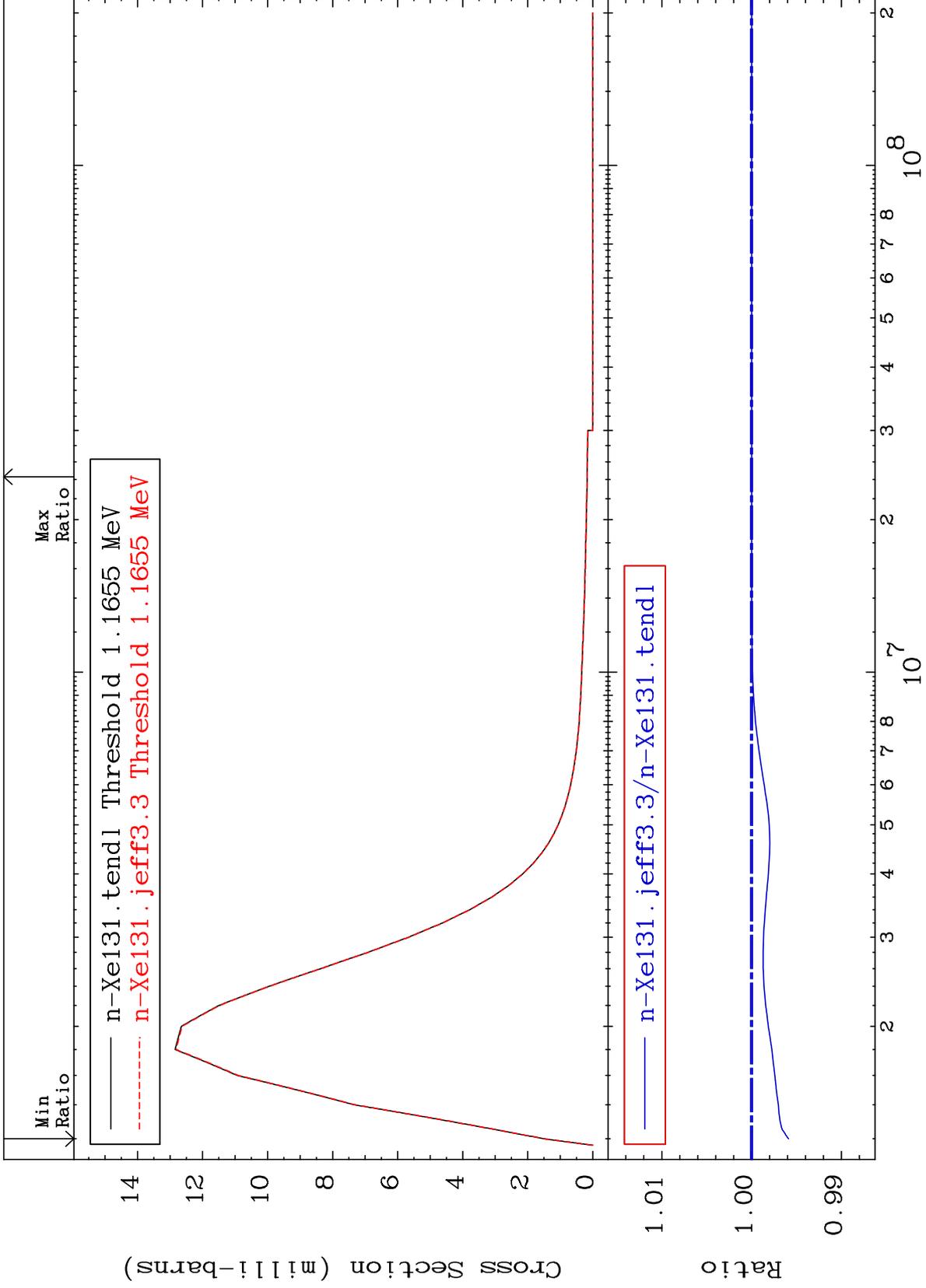
54-Xe-131
-0.438 To 0.000 %



MAT 5446

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

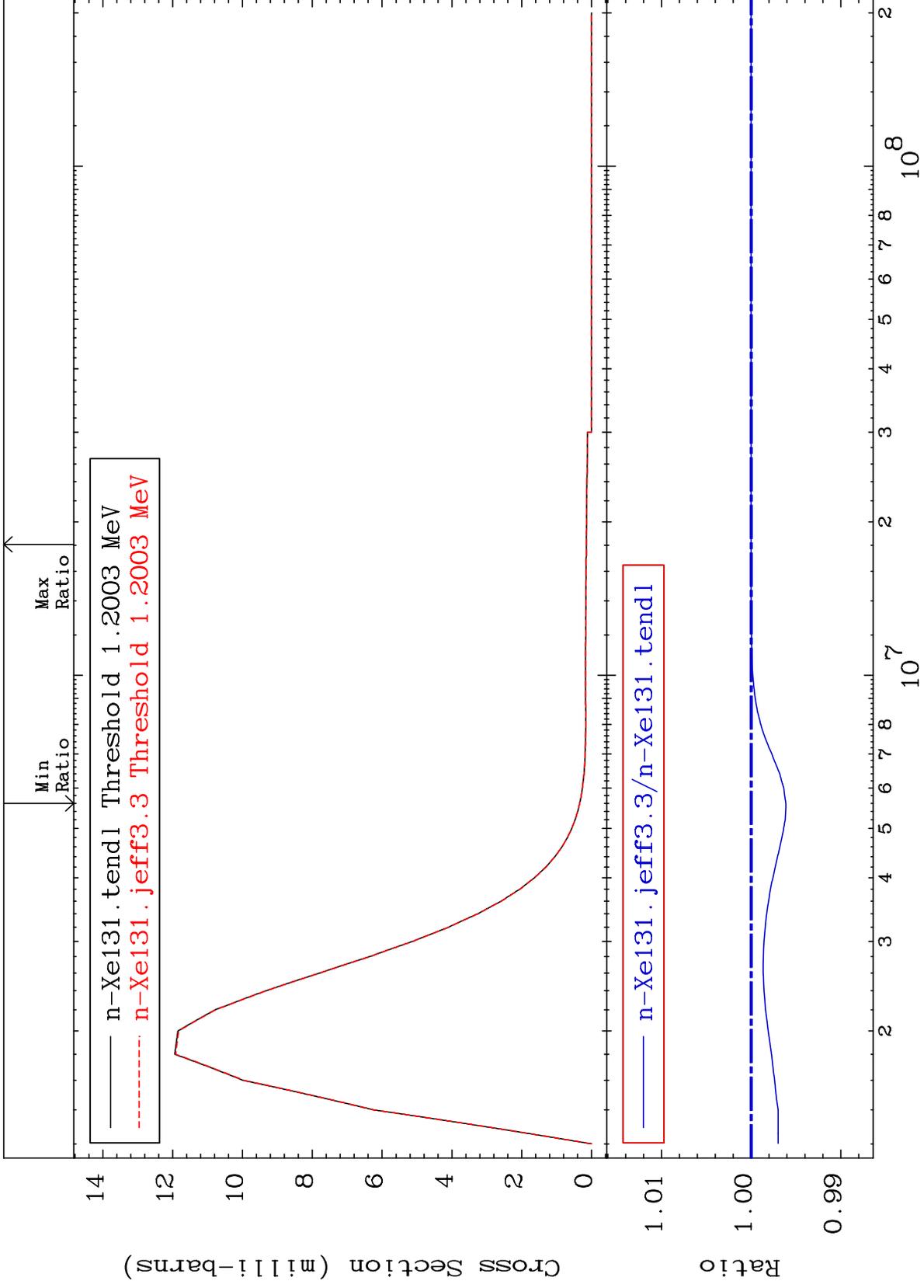
54-Xe-131
-0.413 To 0.000 %



MAT 5446

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

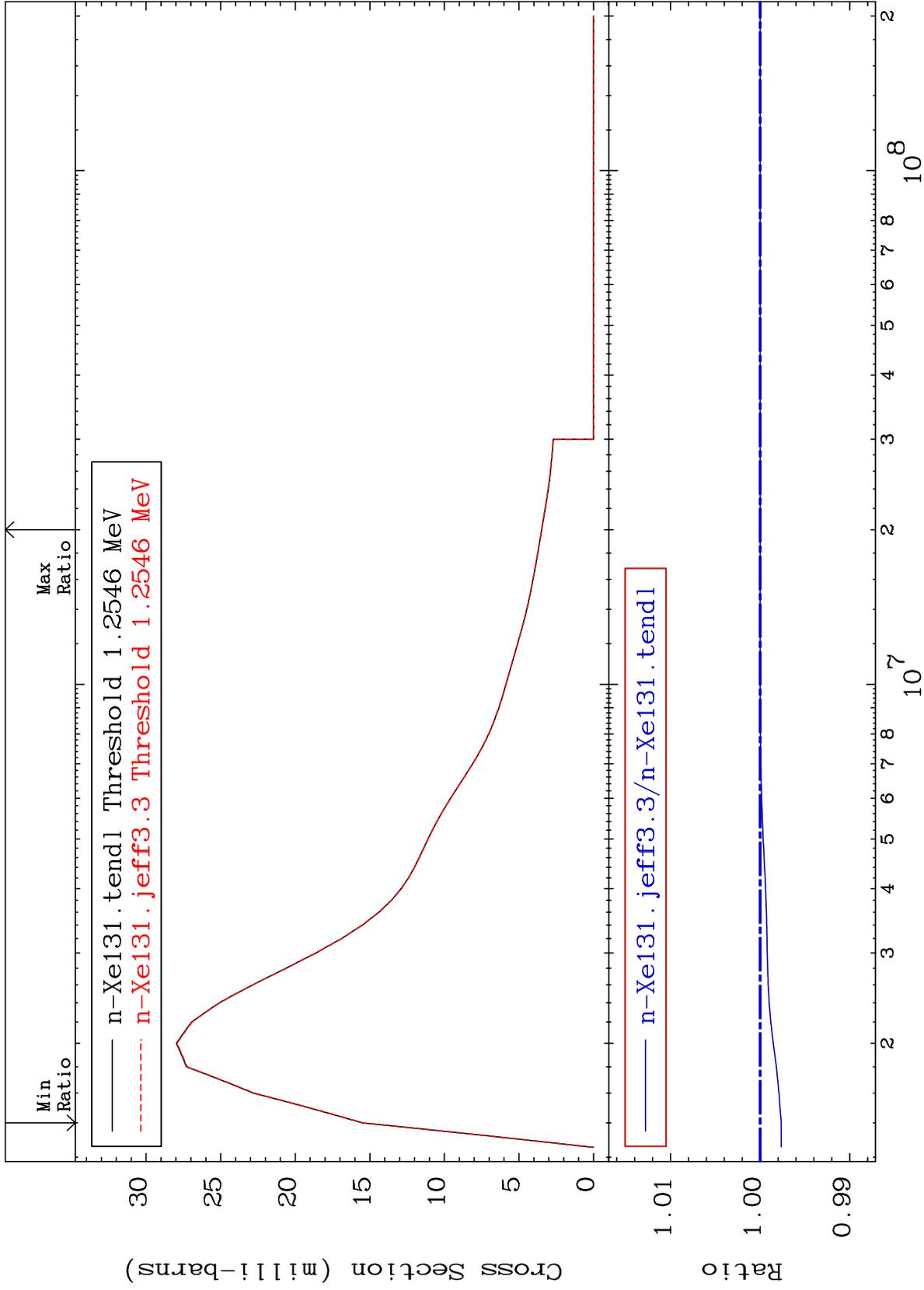
54-Xe-131
-0.387 To 0.000 %



MAT 5446

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

54-Xe-131
-0.235 To 0.000 %



40

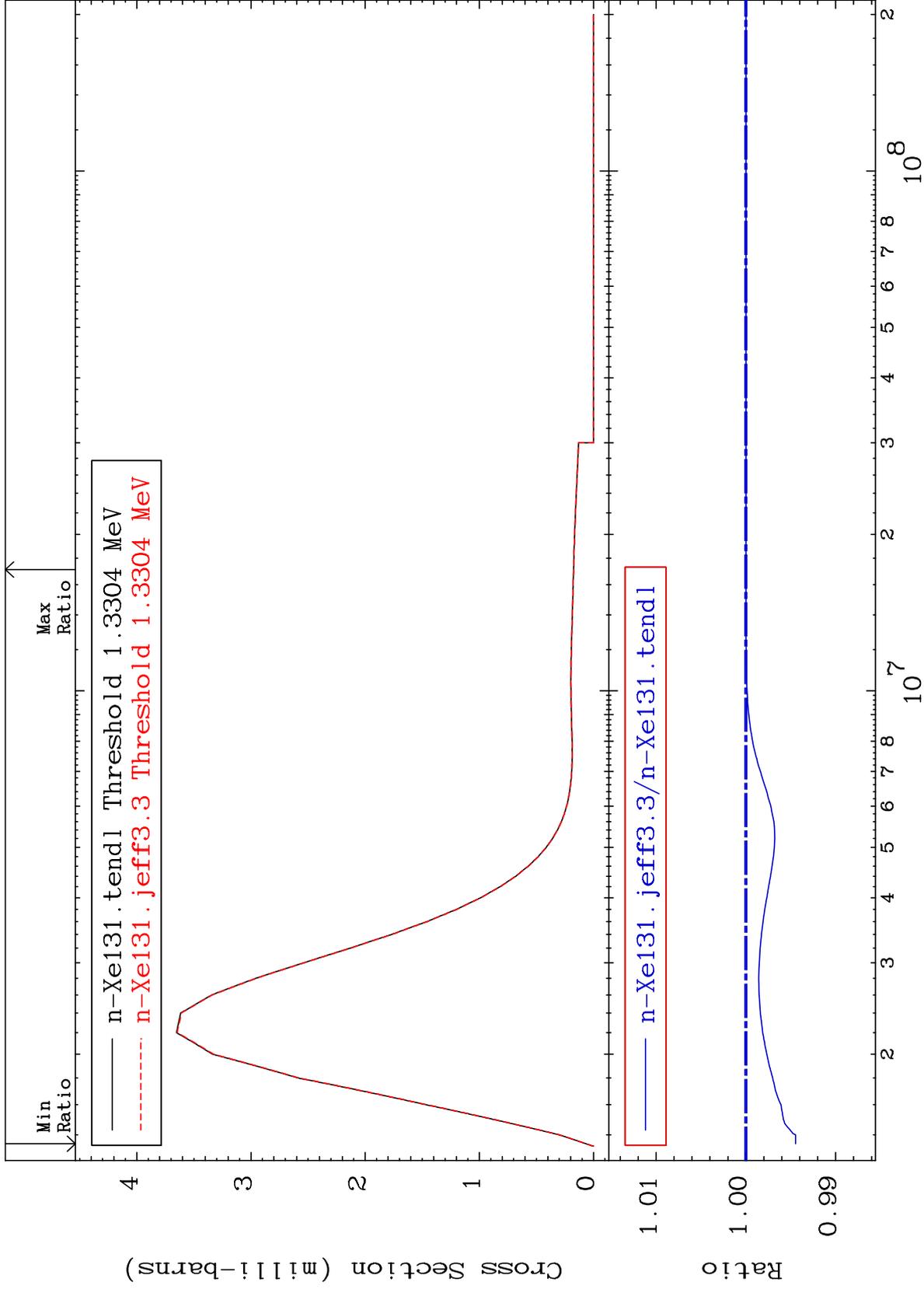
Incident Energy (eV)

54-Xe-131

MAT 5446

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

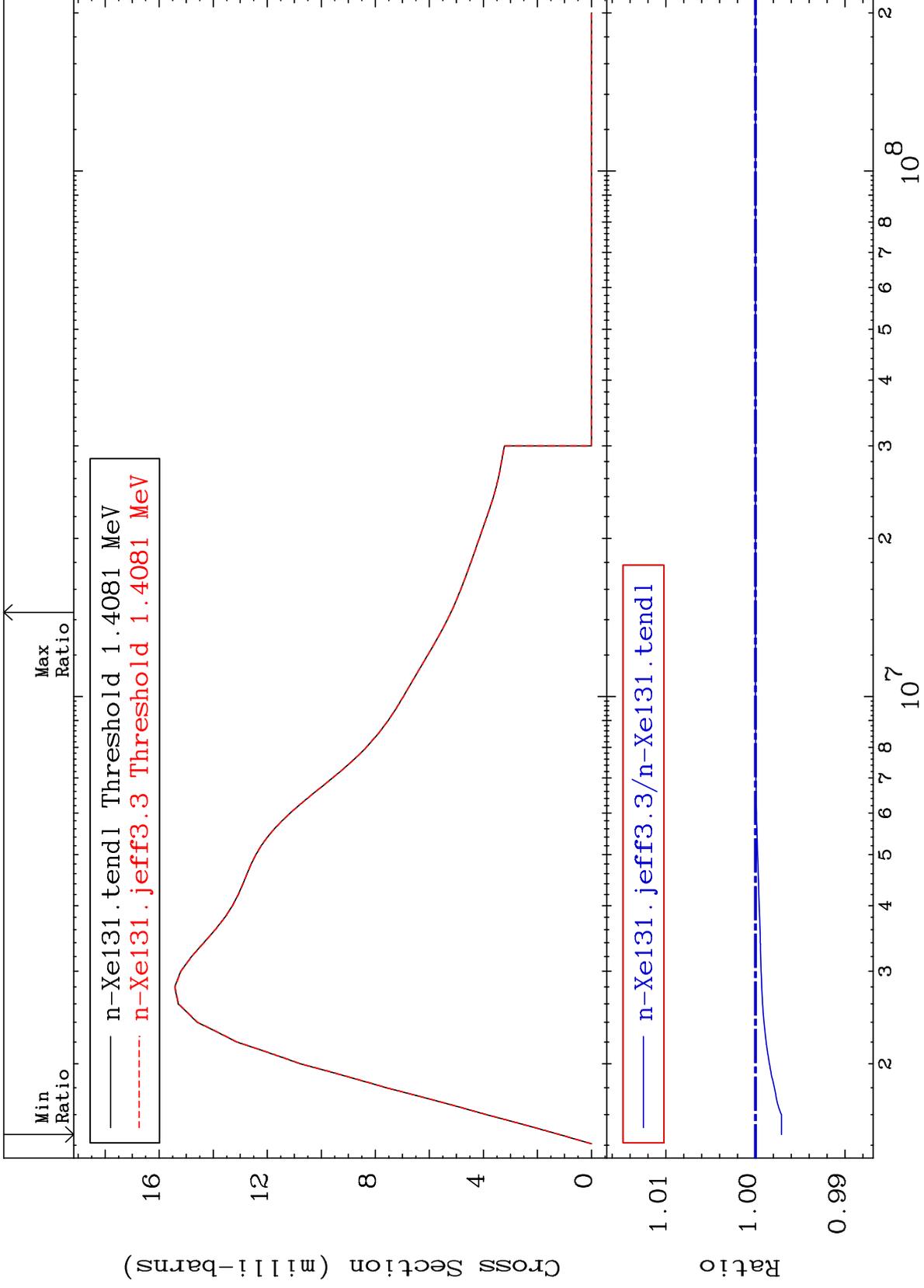
54-Xe-131
-0.553 To 0.000 %



MAT 5446

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

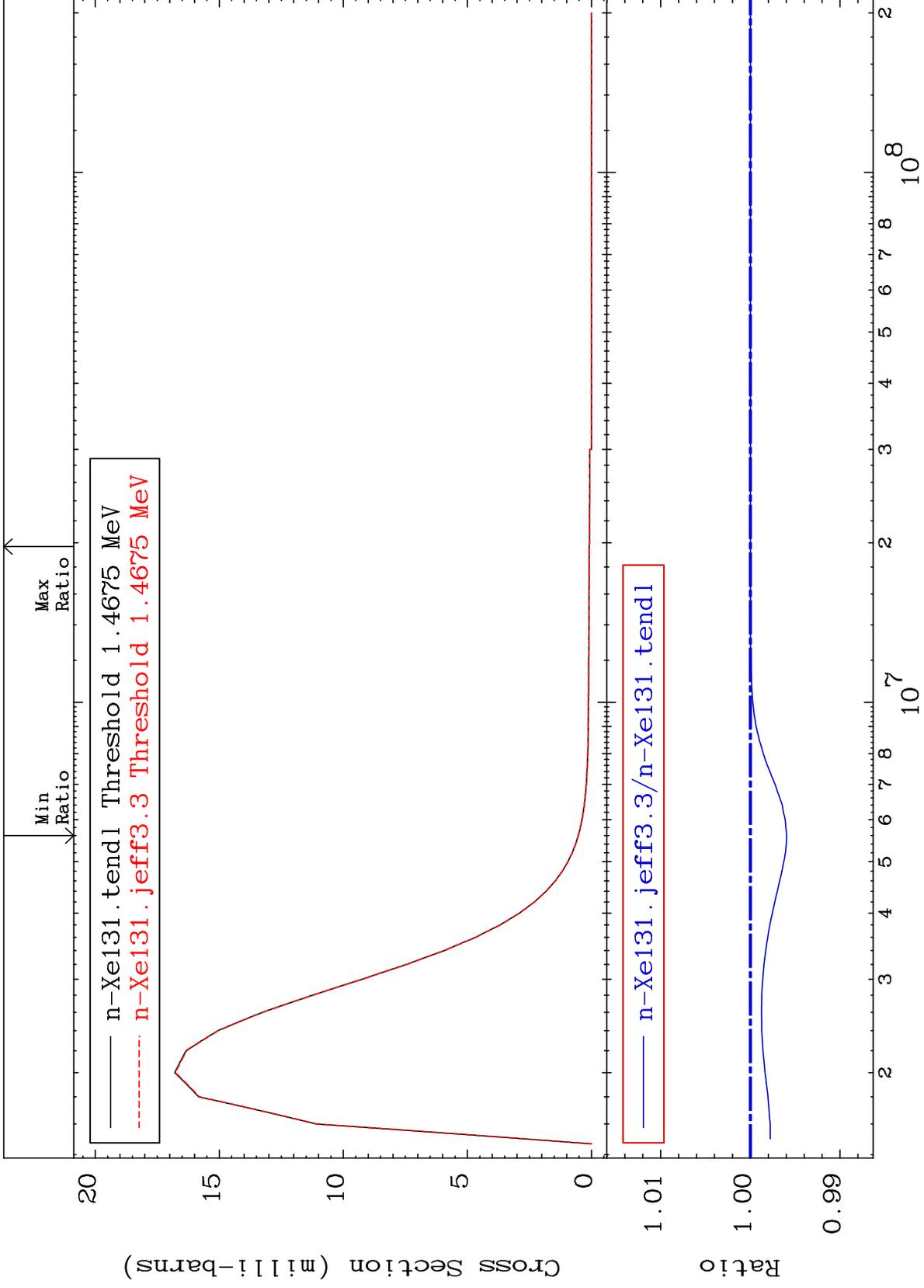
54-Xe-131
-0.291 To 0.000 %



MAT 5446

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

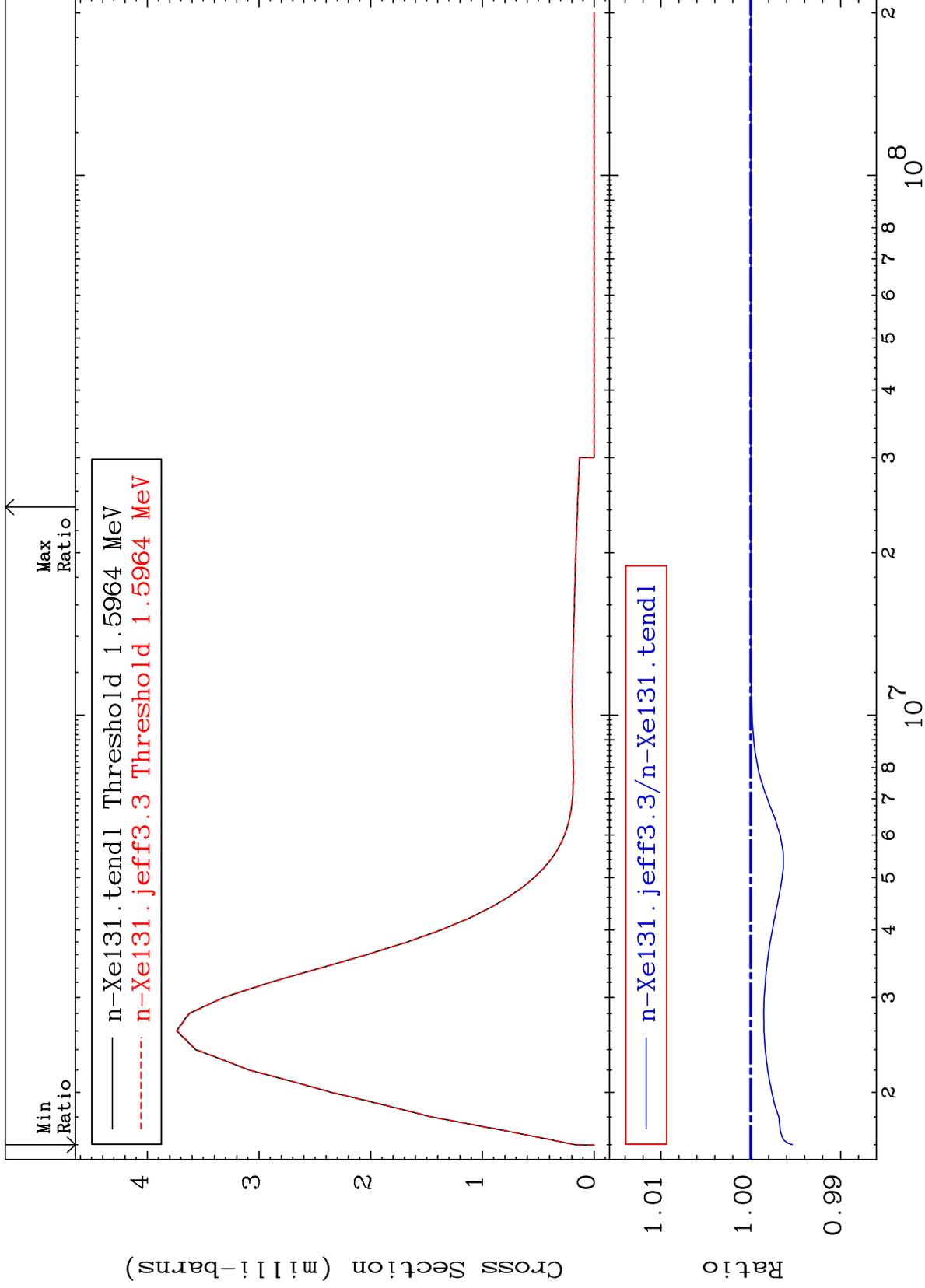
54-Xe-131
-0.405 To 0.000 %



MAT 5446

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

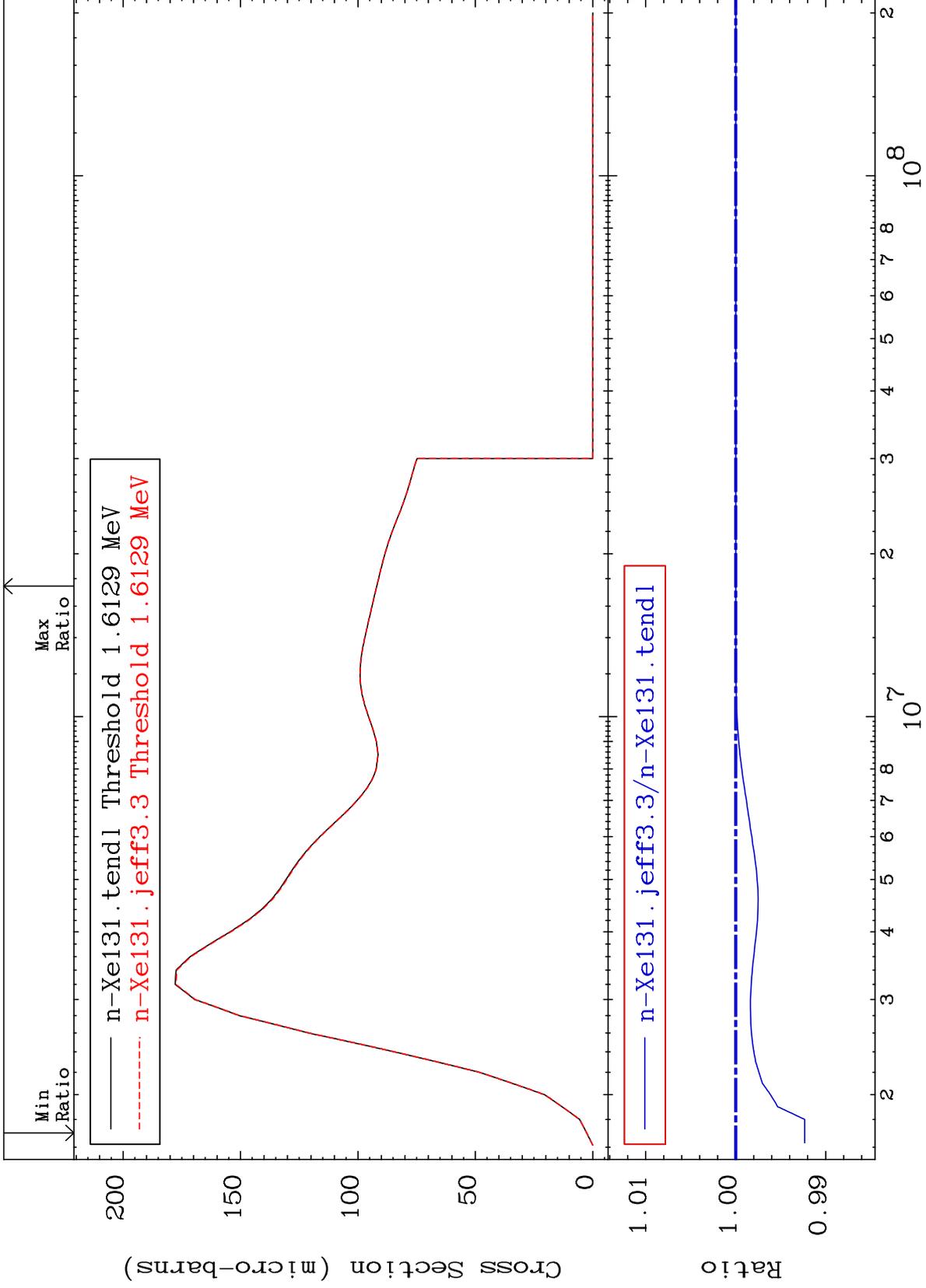
54-Xe-131
-0.462 To 0.000 %



MAT 5446

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

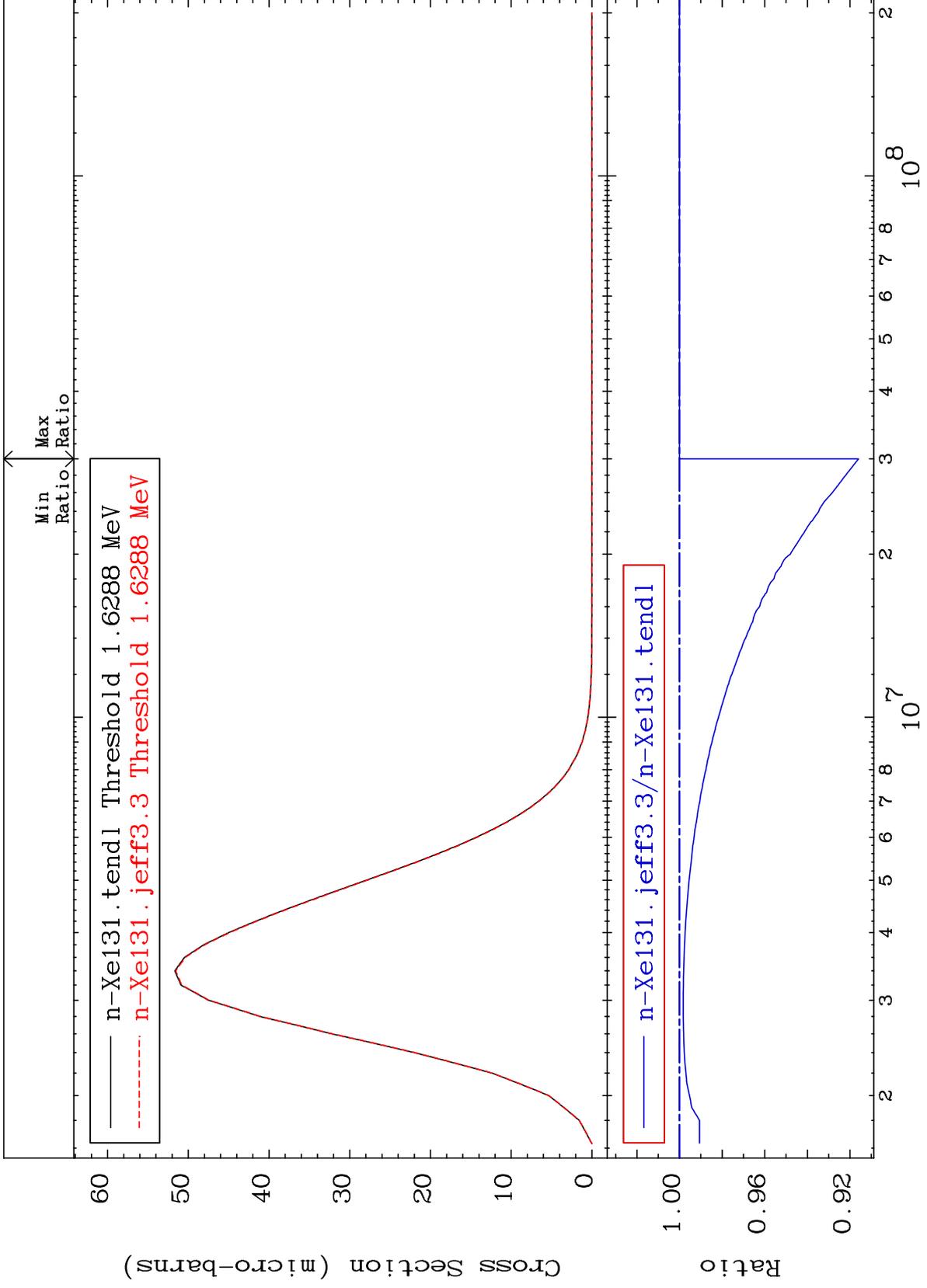
54-Xe-131
-0.766 To 0.000 %



MAT 5446

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

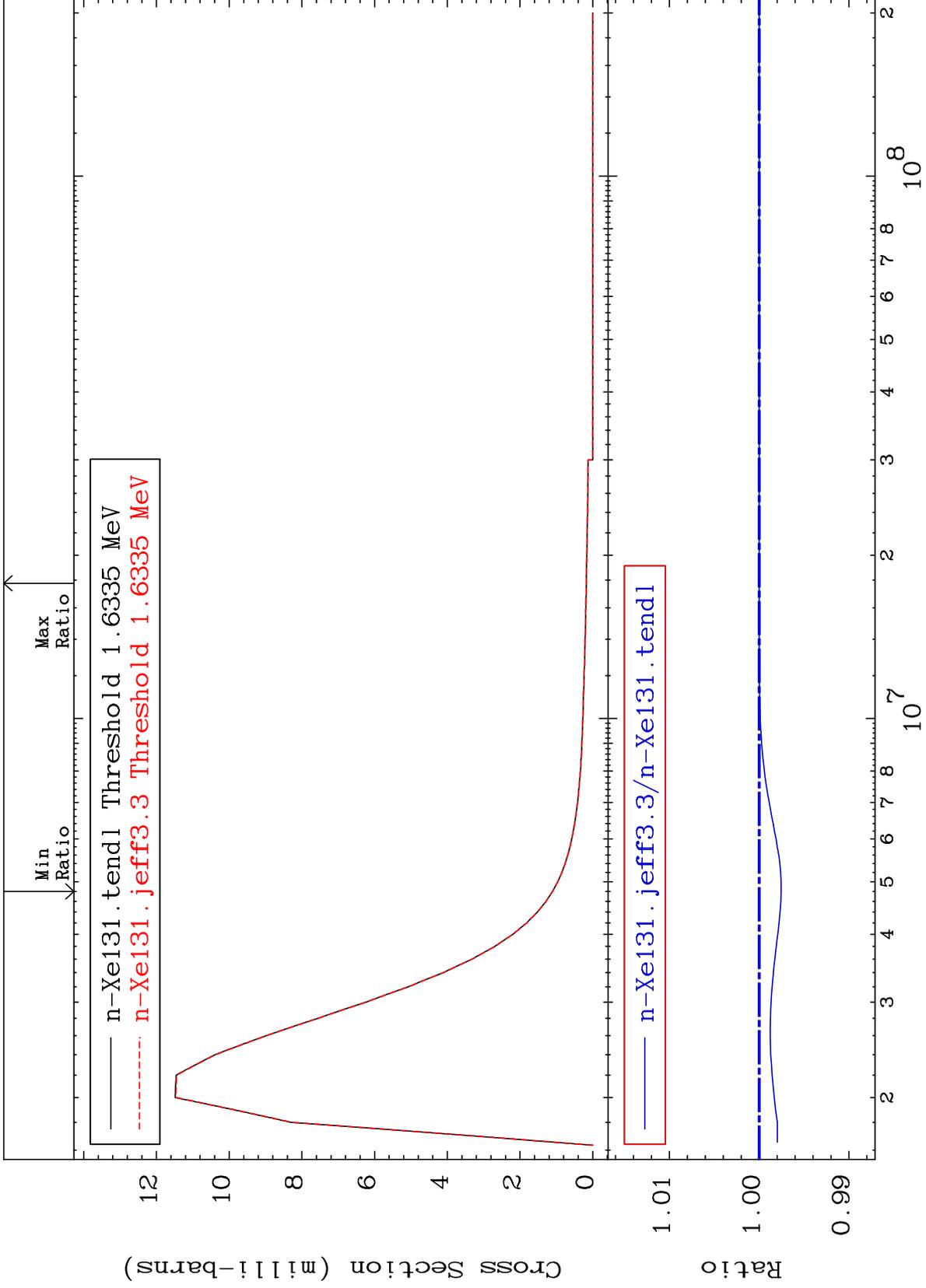
54-Xe-131
-8.400 To 0.000 %



MAT 5446

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

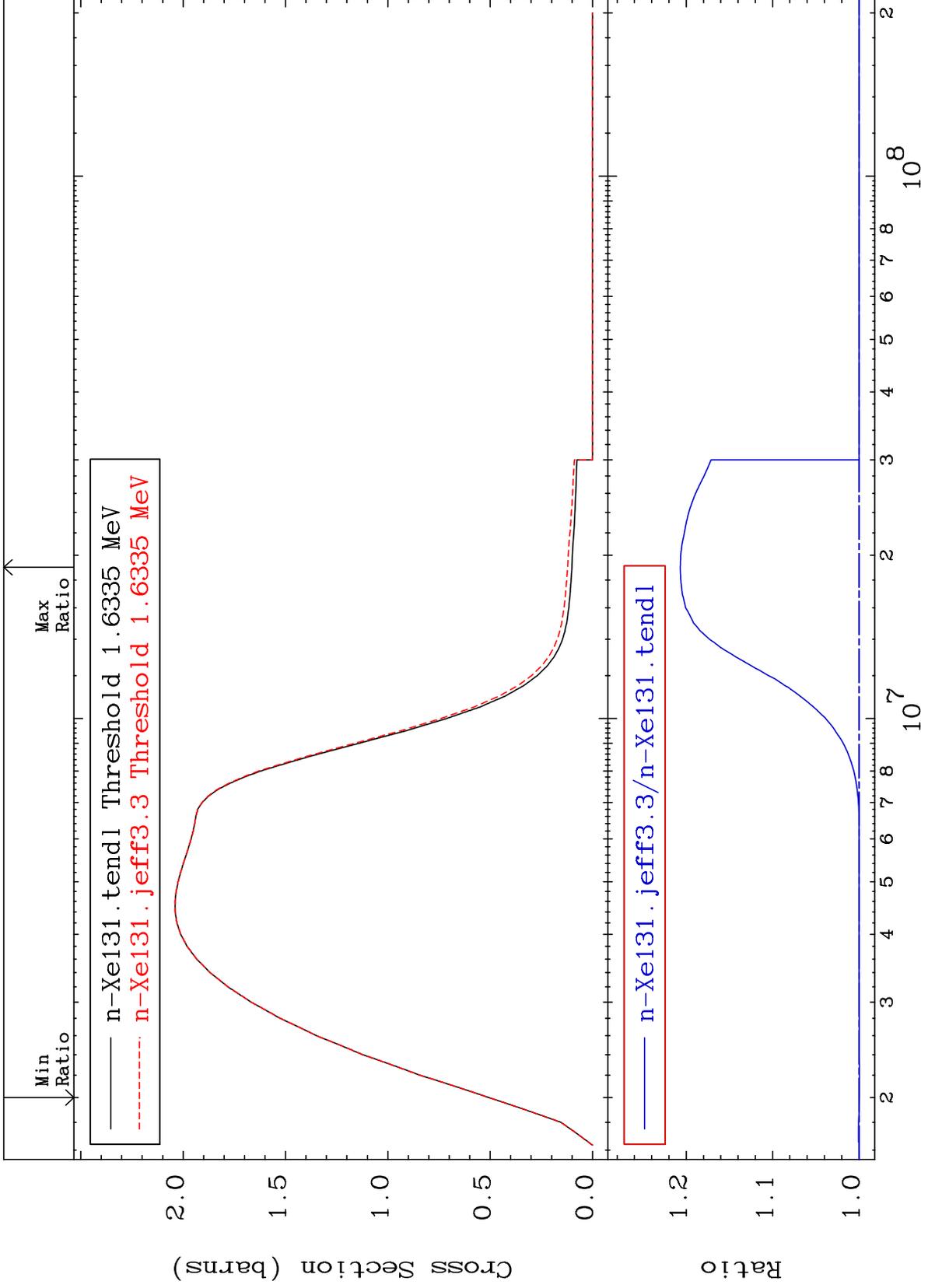
54-Xe-131
-0.245 To 0.000 %



MAT 5446

(n, n') Continuum
Cross Section

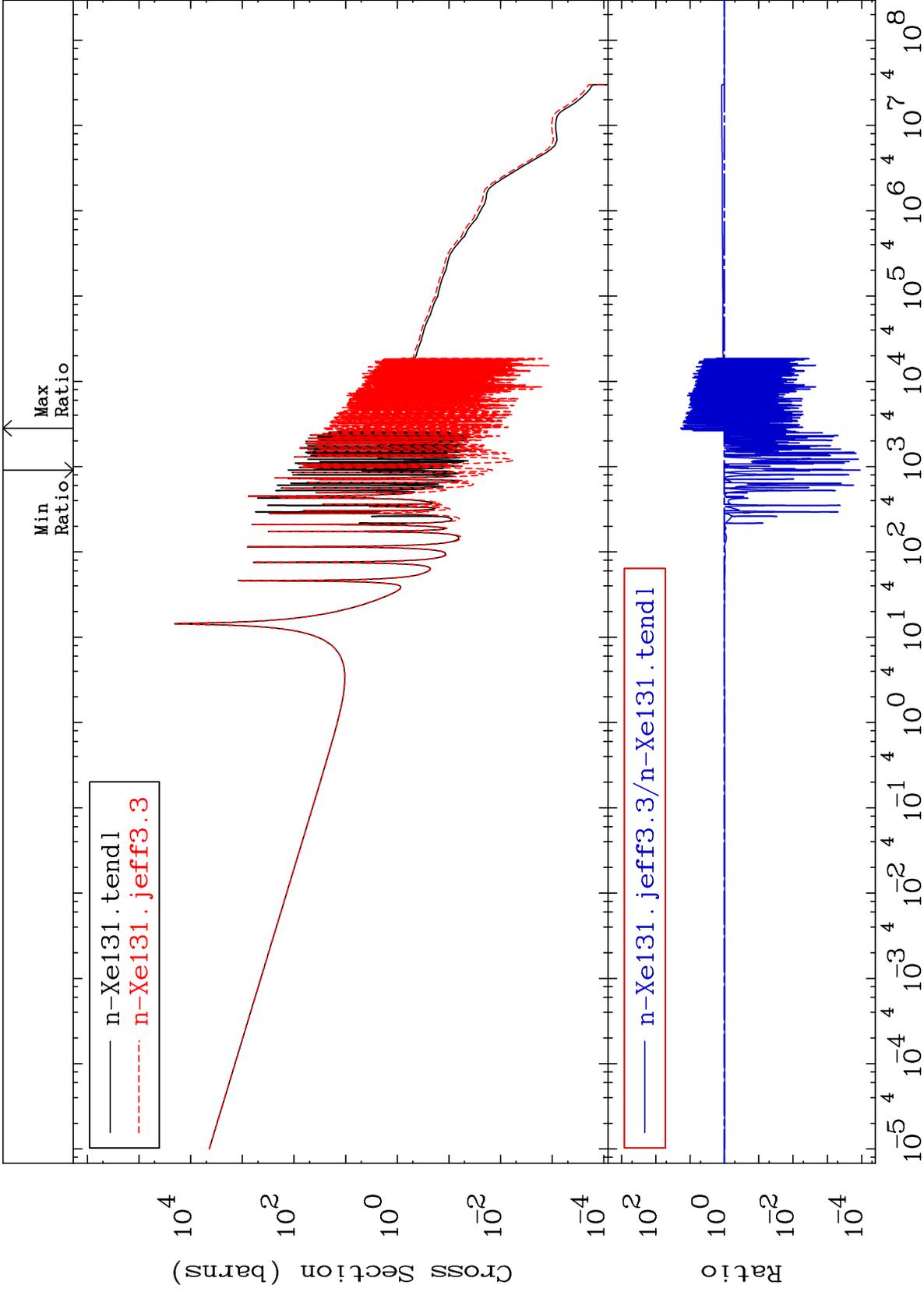
54-Xe-131
-0.058 To 20.69 %



MAT 5446

(n, γ)
Cross Section

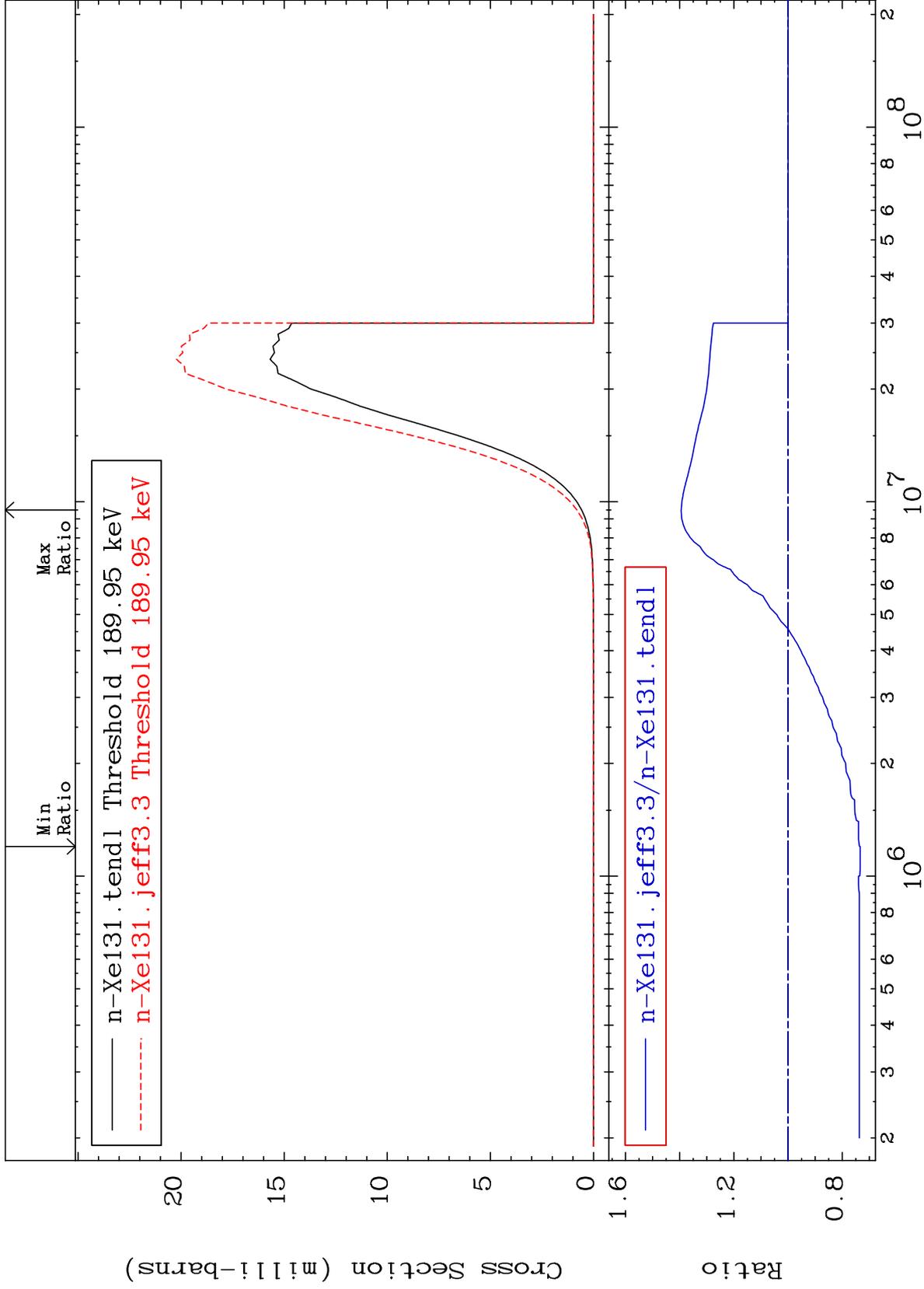
54-Xe-131
-99.99 To 1809. %



MAT 5446

54-Xe-131

(n,p)
Cross Section
-26.62 To 39.47 %



50

Incident Energy (eV)

54-Xe-131

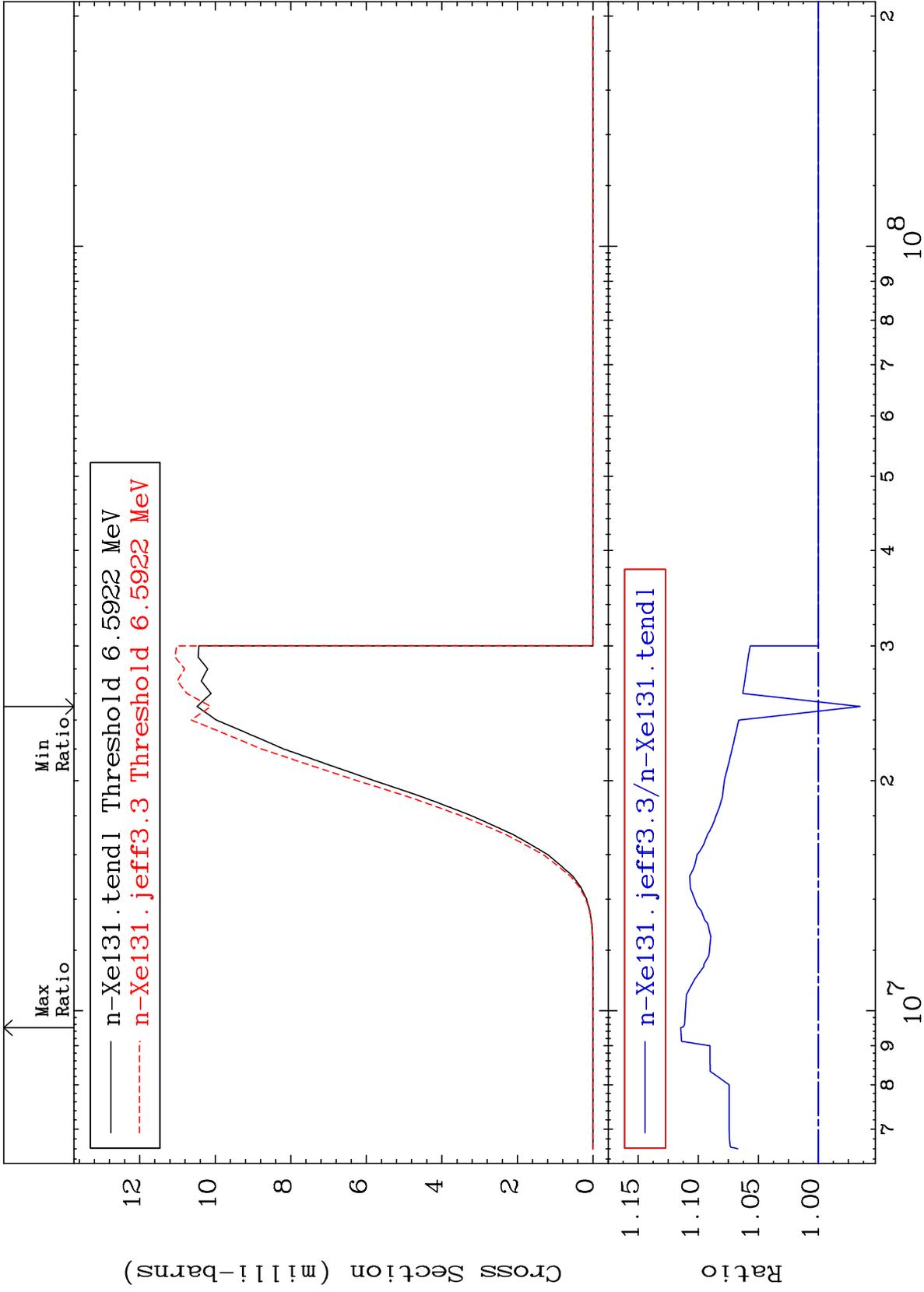
MAT 5446

(n, d)

54-Xe-131

Cross Section

-3.469 To 11.45 %



51

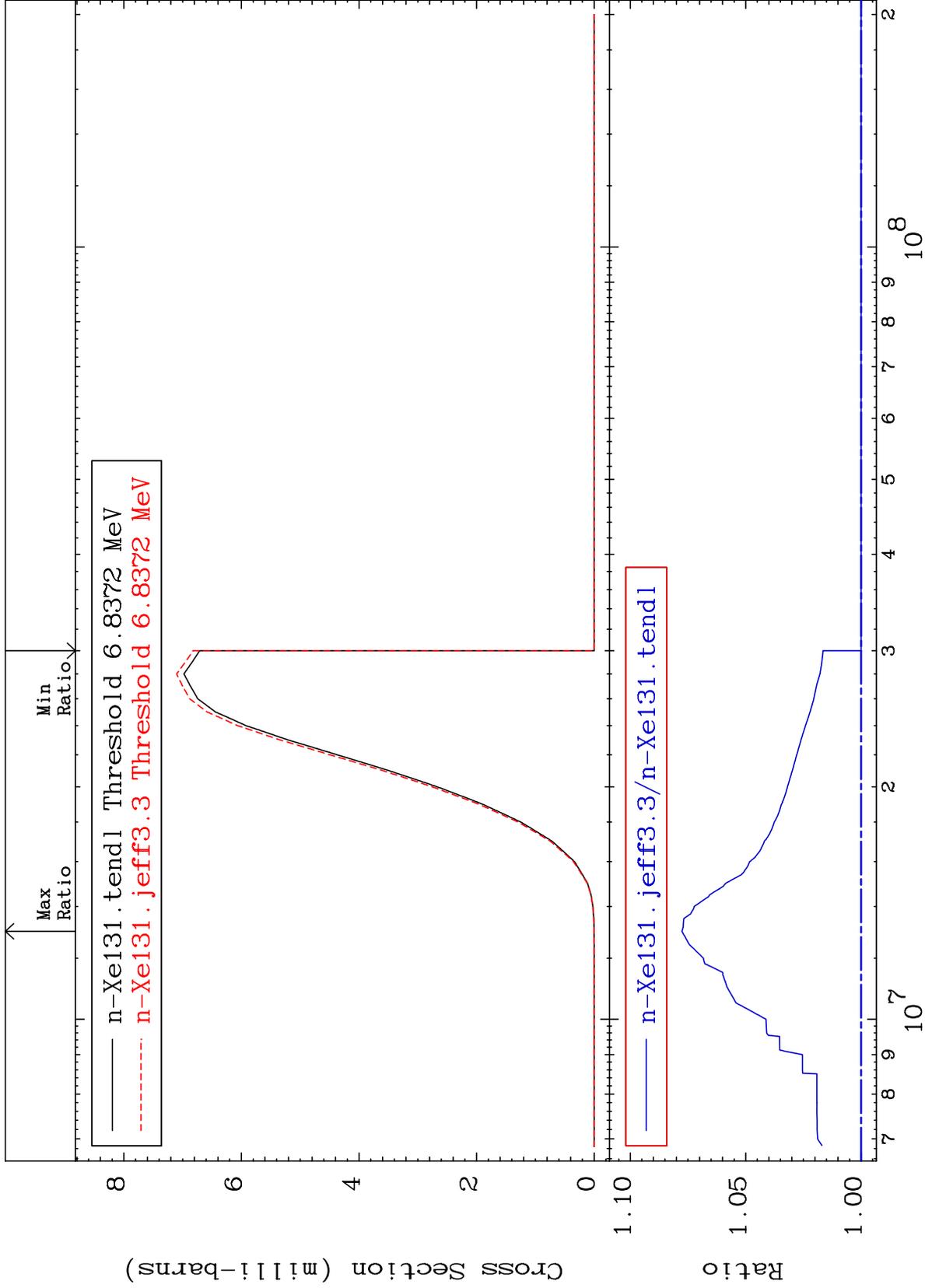
Incident Energy (eV)

54-Xe-131

MAT 5446

54-Xe-131

Cross Section To 7.764 %



52

Incident Energy (eV)

54-Xe-131

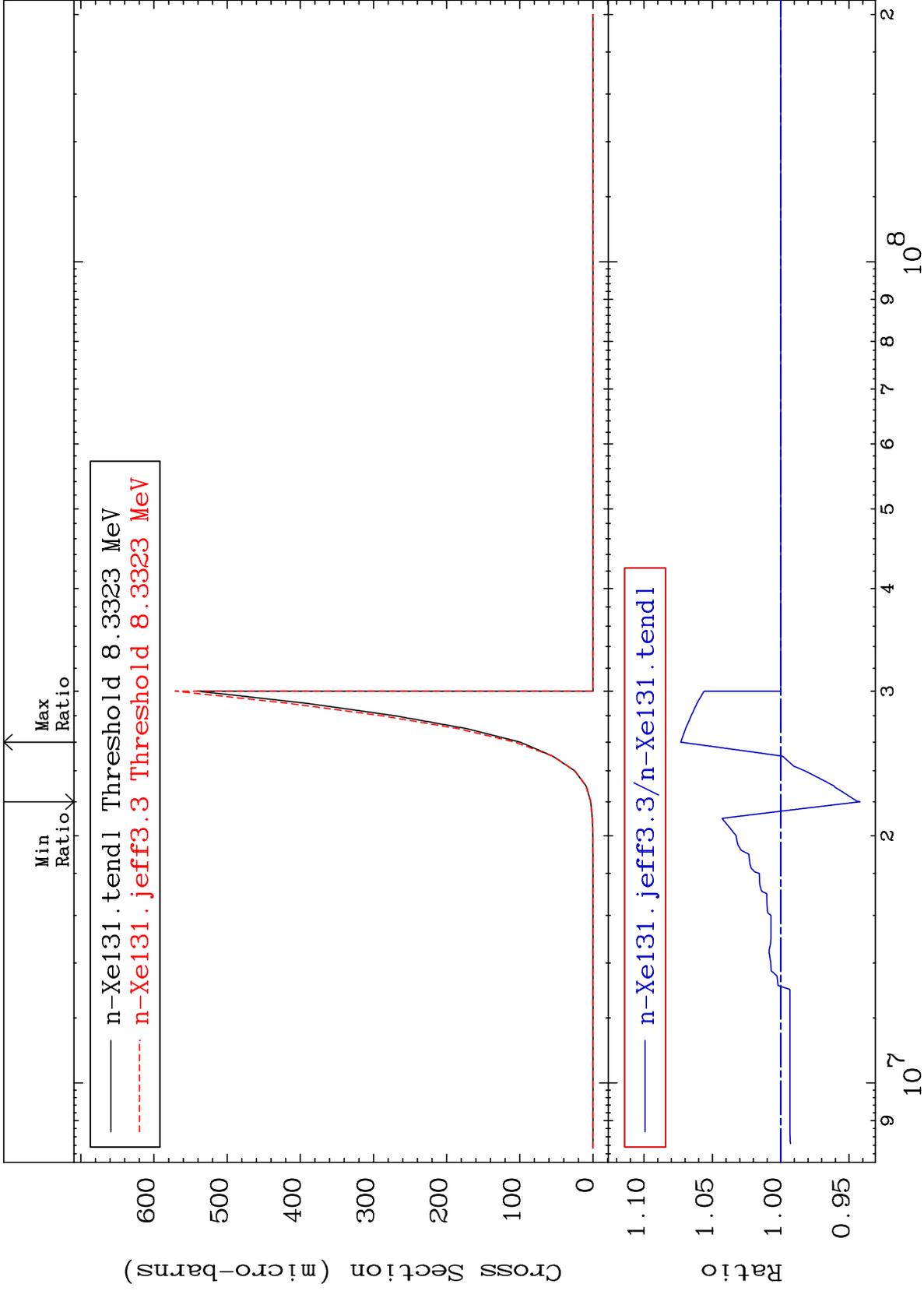
MAT 5446

(n, He-3)

54-Xe-131

Cross Section

-5.805 To 7.313 %



53

Incident Energy (eV)

54-Xe-131

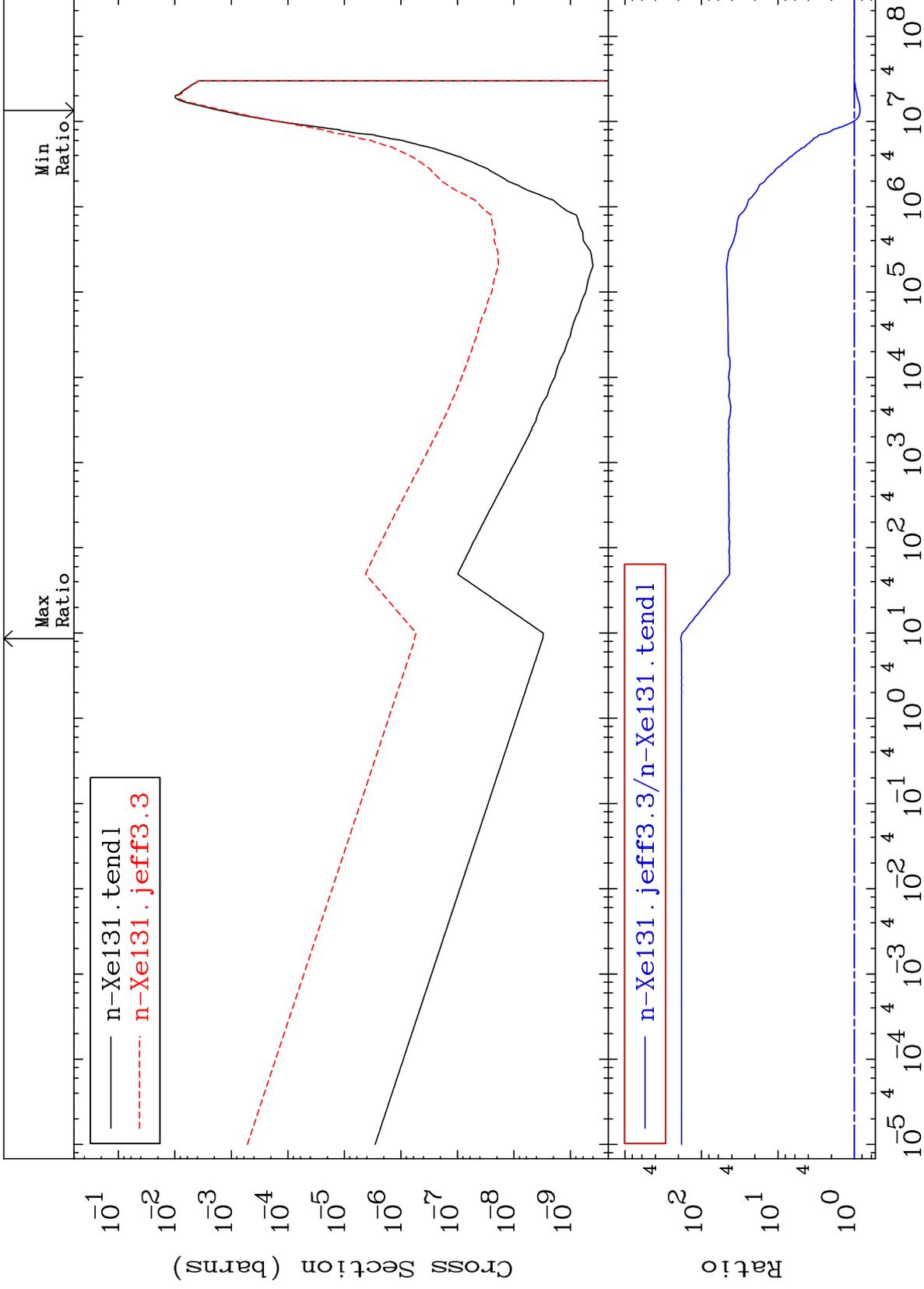
MAT 5446

(n, α)

54-Xe-131

Cross Section

-15.55 To 9999. %



54

Incident Energy (eV)

54-Xe-131

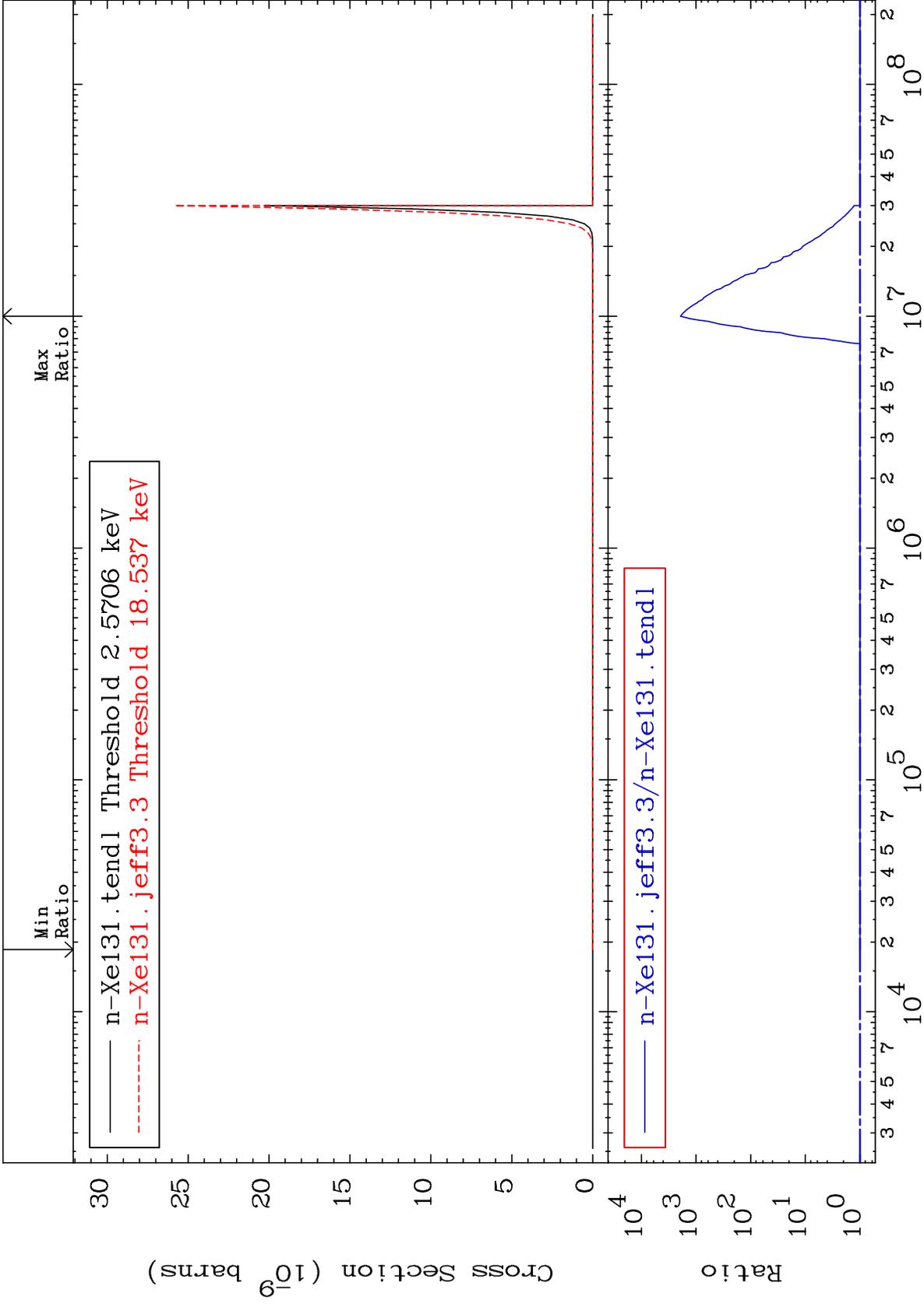
MAT 5446

(n,2α)

54-Xe-131

Cross Section

0.000 To 9999. %



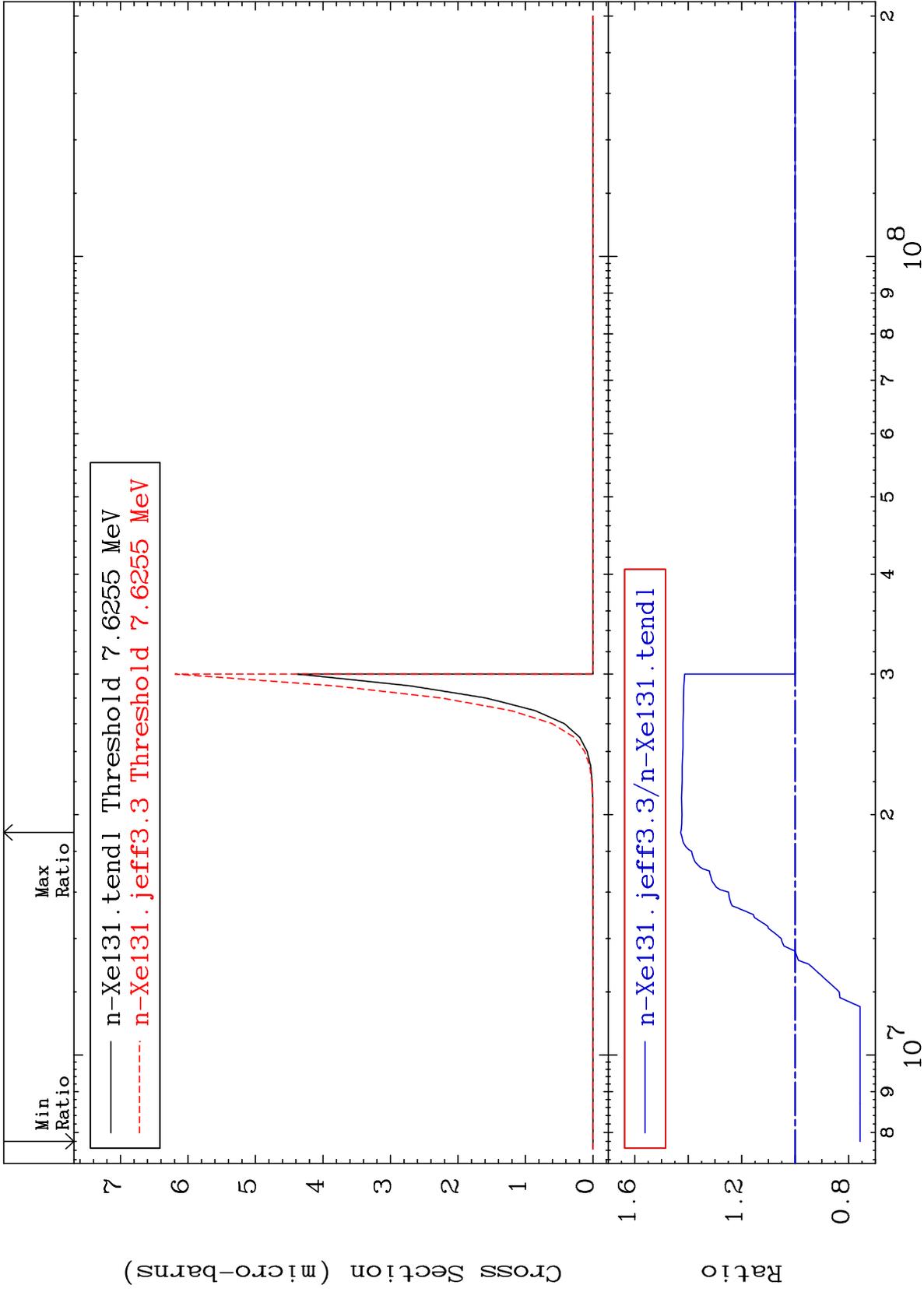
MAT 5446

(n,2p)

54-Xe-131

Cross Section

-24.30 To 42.80 %



56

Incident Energy (eV)

54-Xe-131

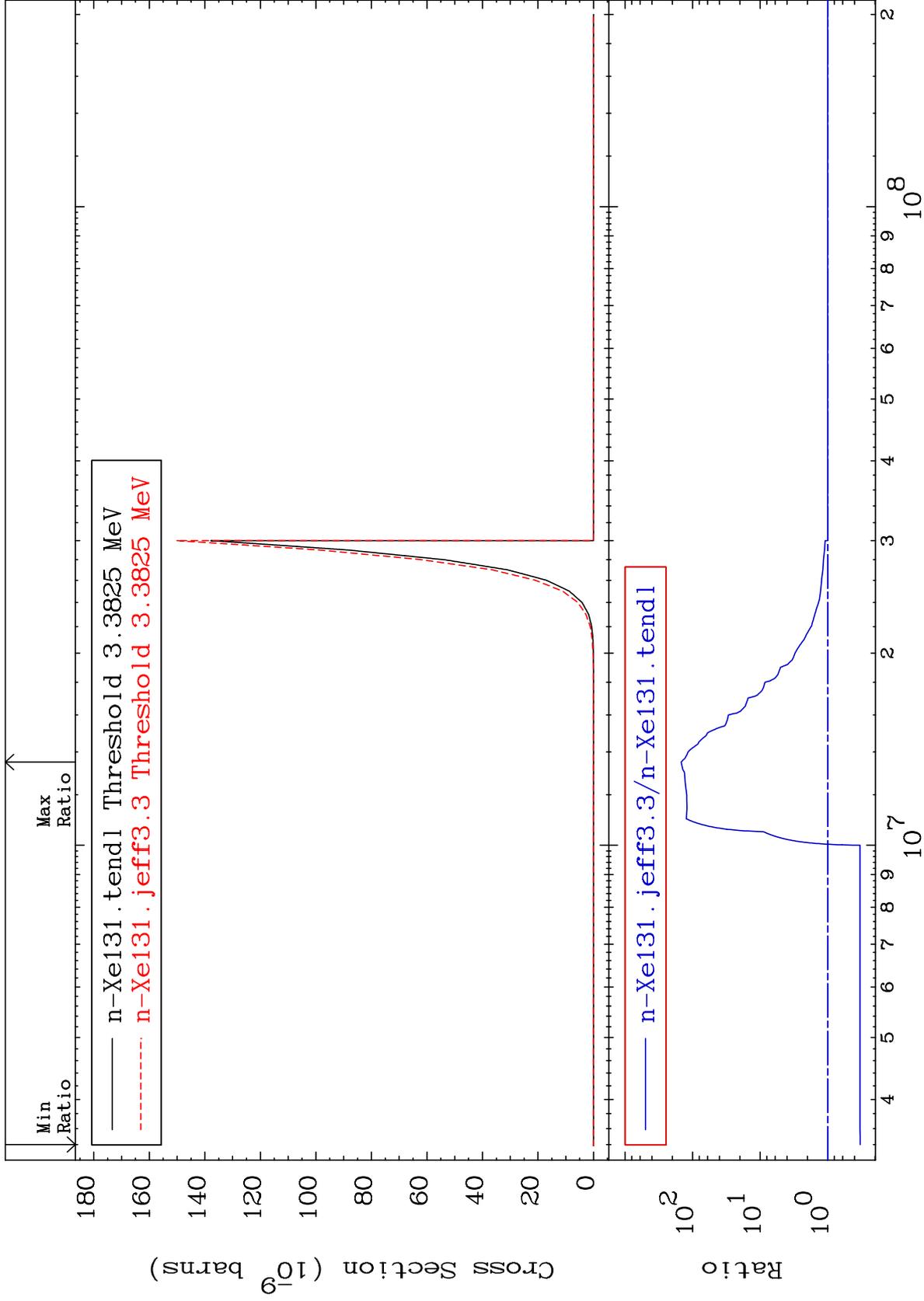
MAT 5446

(n,p) α

54-Xe-131

Cross Section

-66.94 To 9999. %



57

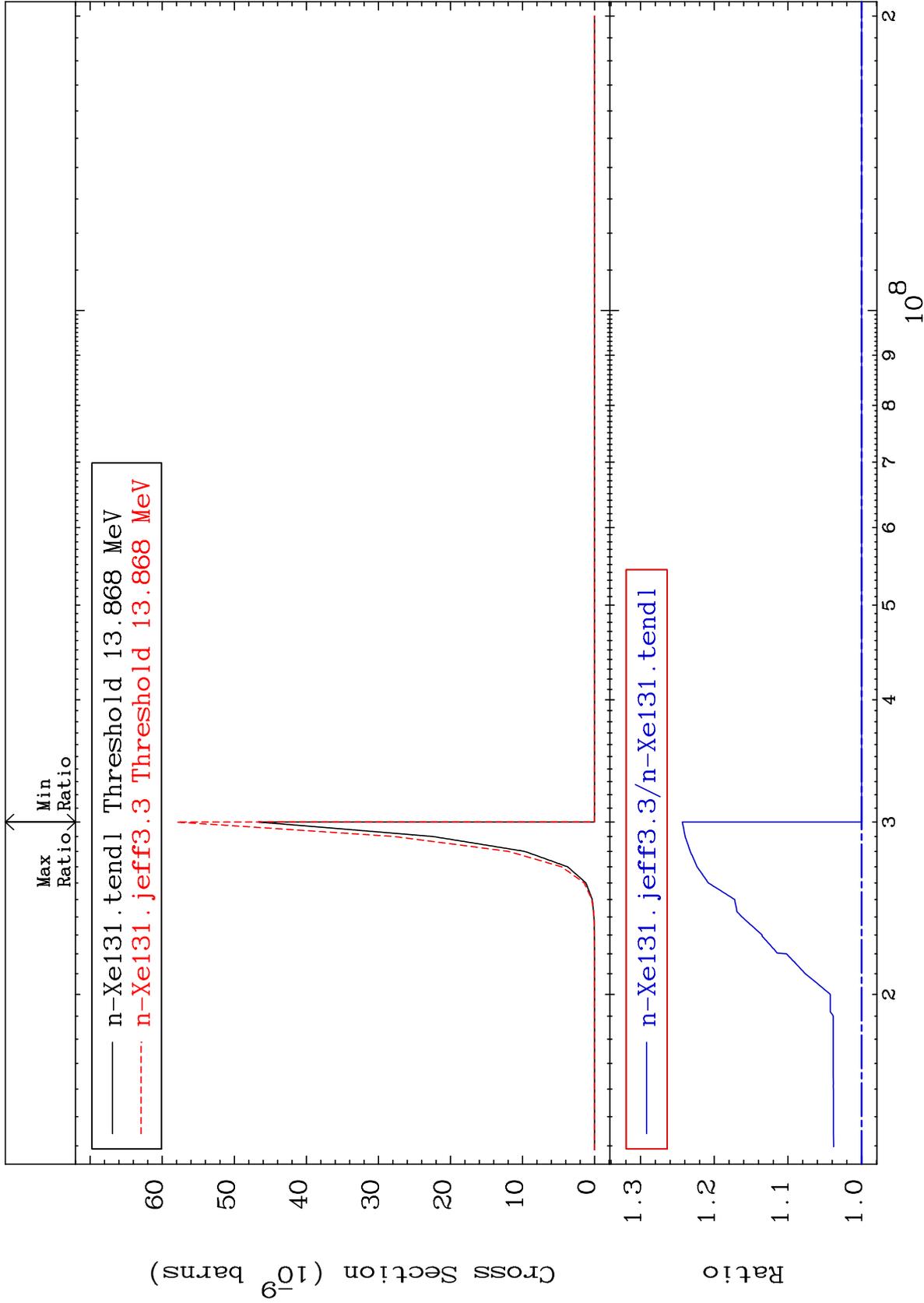
Incident Energy (eV)

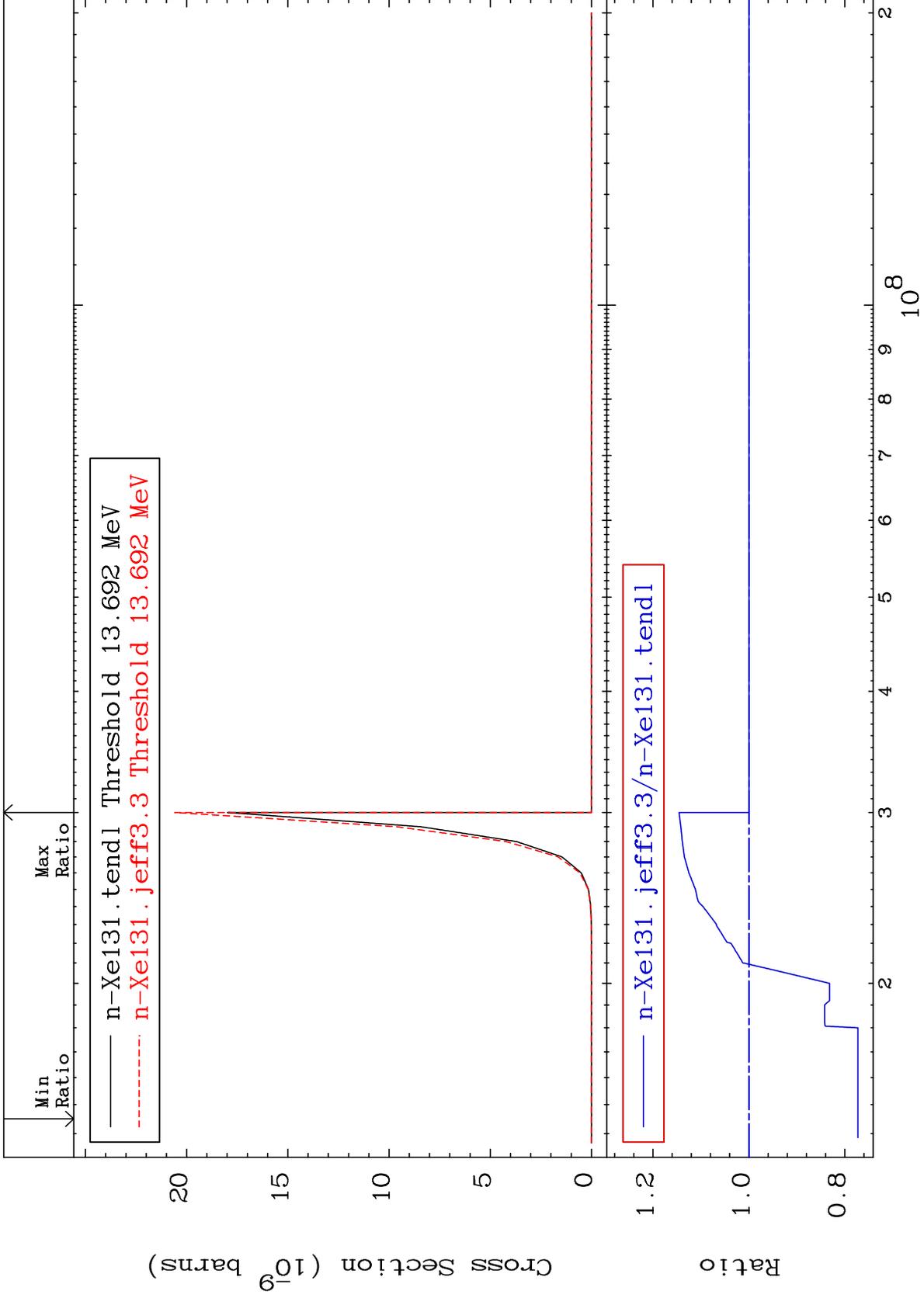
54-Xe-131

MAT 5446

(n,p) d
Cross Section

54-Xe-131
To 24.34 %

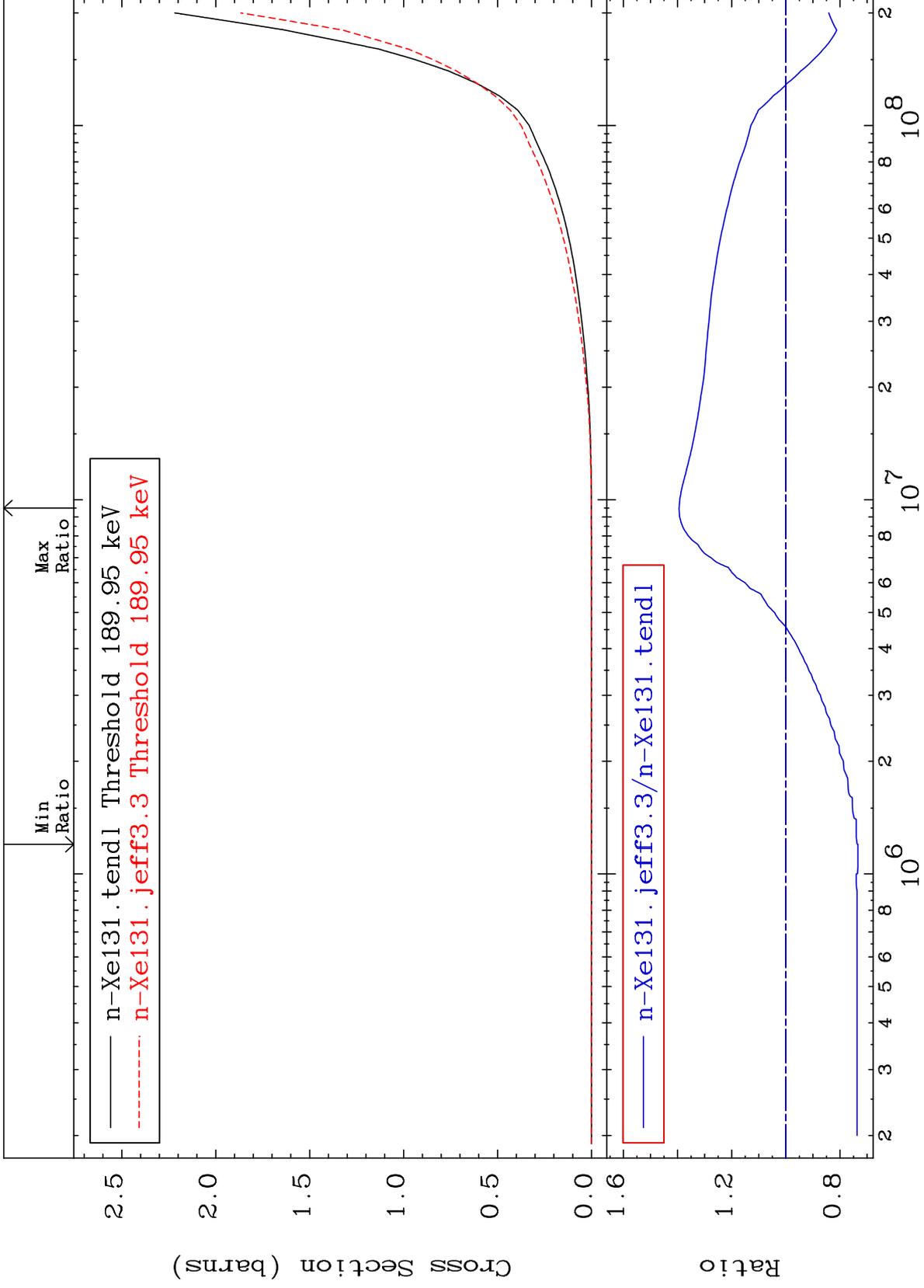




MAT 5446

Hydrogen Production
Cross Section

54-Xe-131
-26.62 To 39.47 %



60

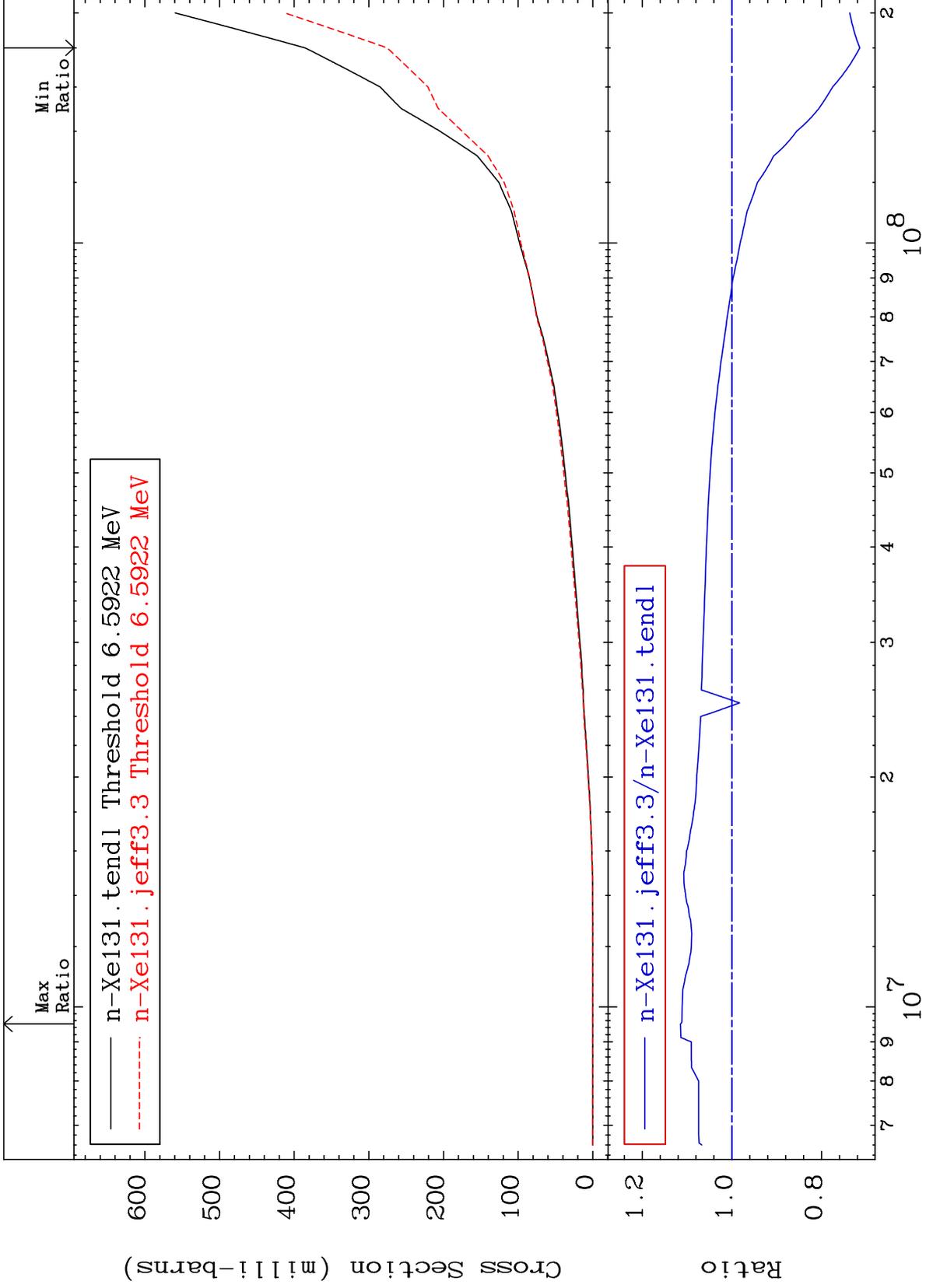
Incident Energy (eV)

54-Xe-131

MAT 5446

Deuterium Production
Cross Section

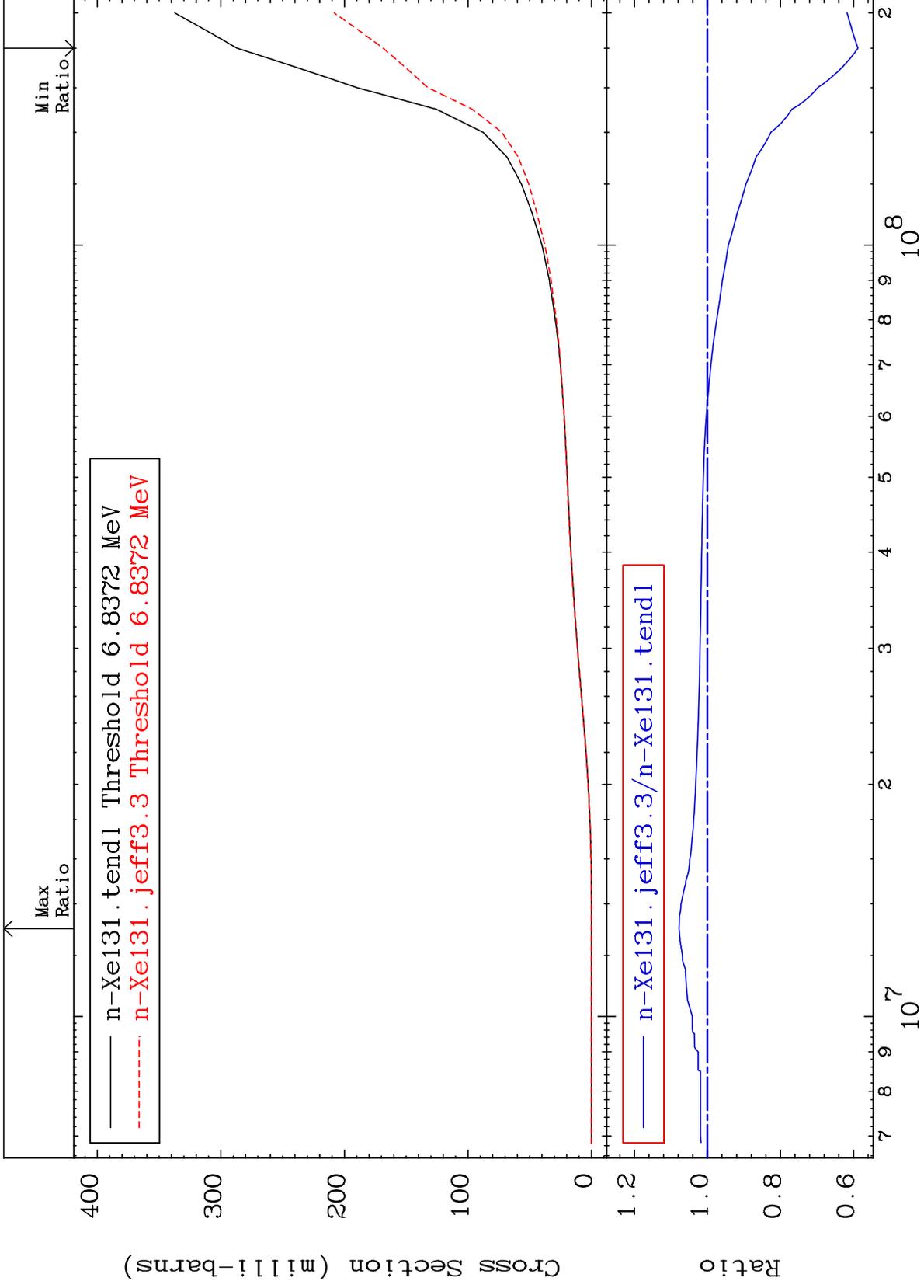
54-Xe-131
-28.51 To 11.45 %



MAT 5446

Tritium Production
Cross Section

54-Xe-131
-41.23 To 7.764 %



62

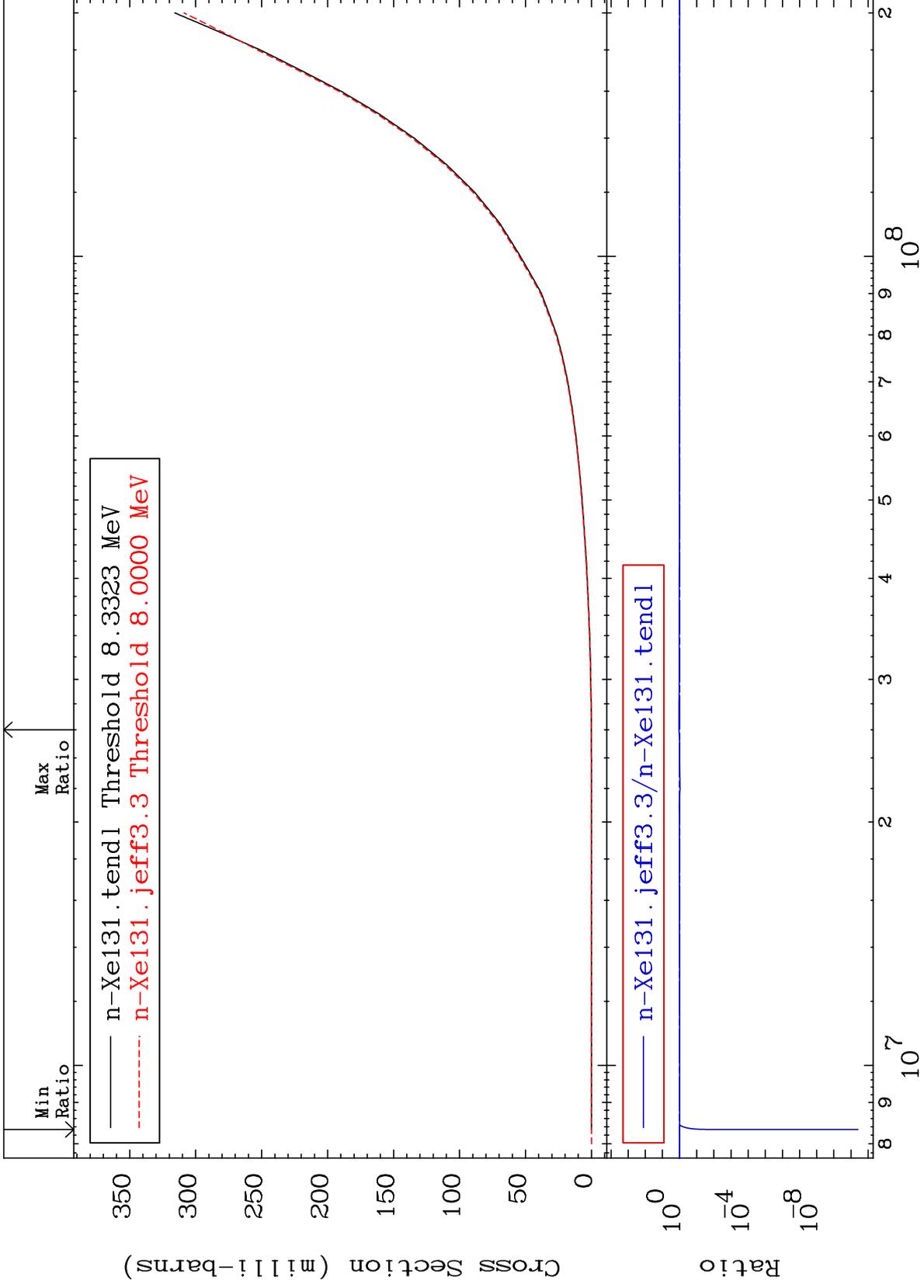
Incident Energy (eV)

54-Xe-131

MAT 5446

He-3 Production
Cross Section

54-Xe-131
-100.0 To 7.301 %



63

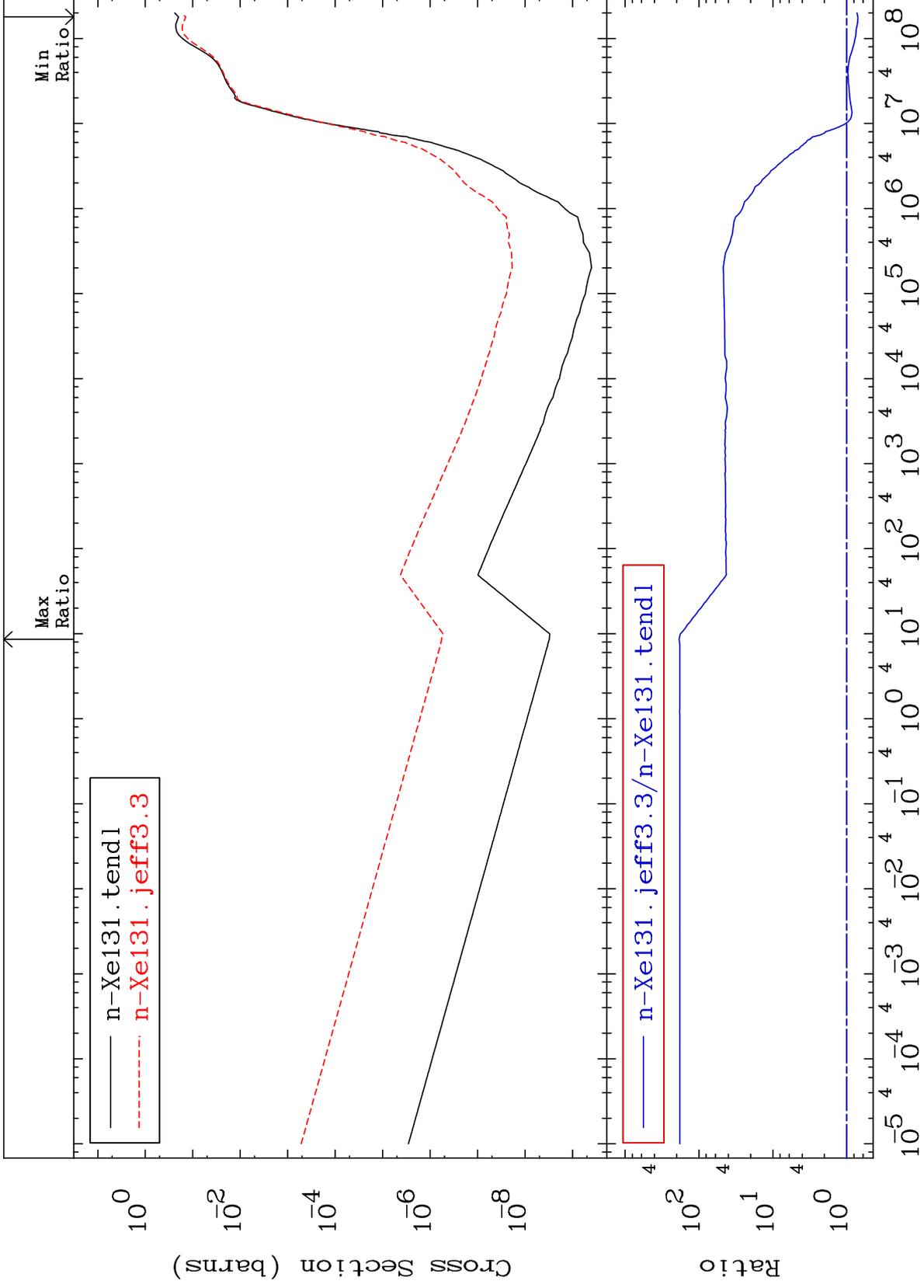
Incident Energy (eV)

54-Xe-131

MAT 5446

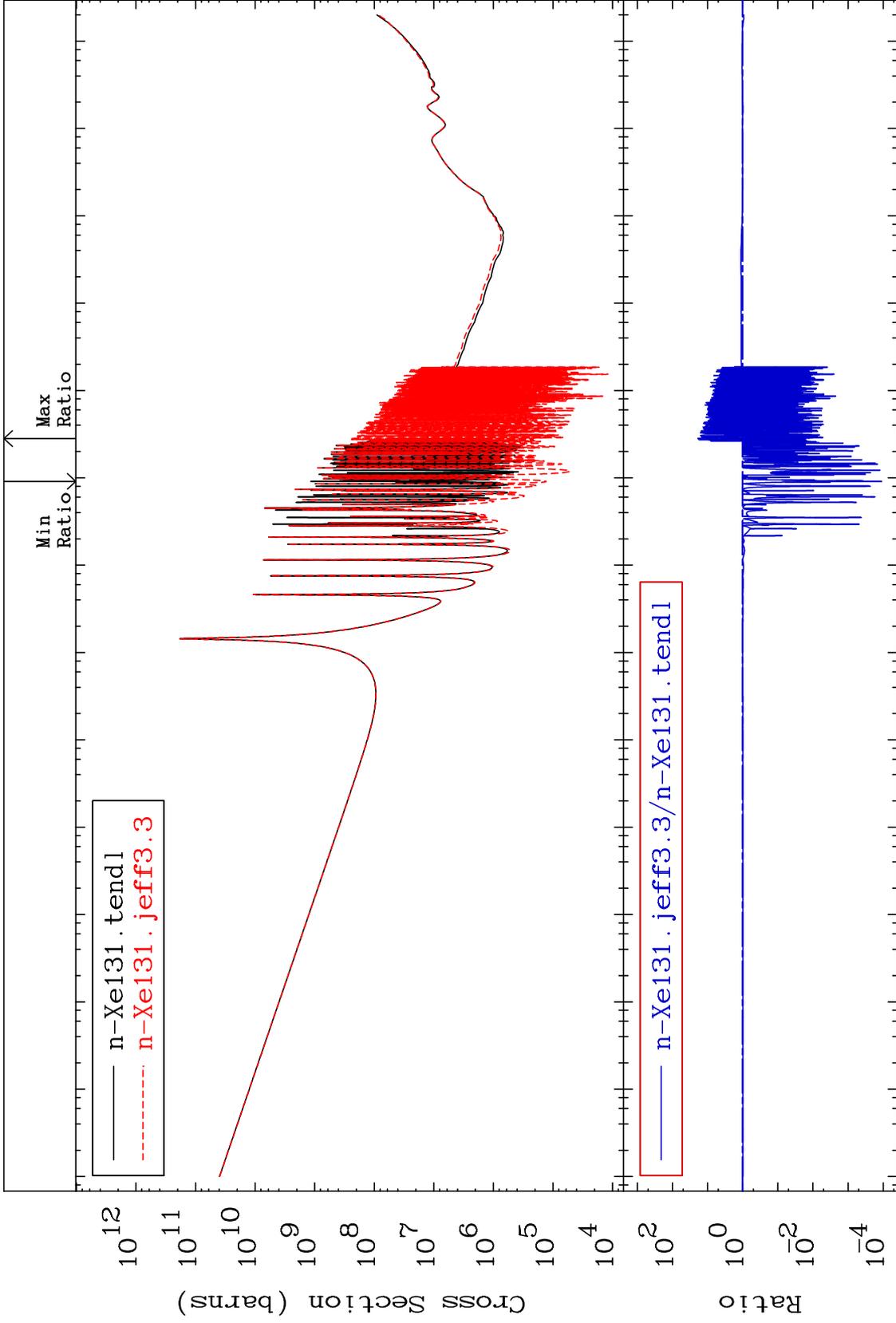
He-4 Production
Cross Section

54-Xe-131
-29.49 To 9999. %



Cross Section

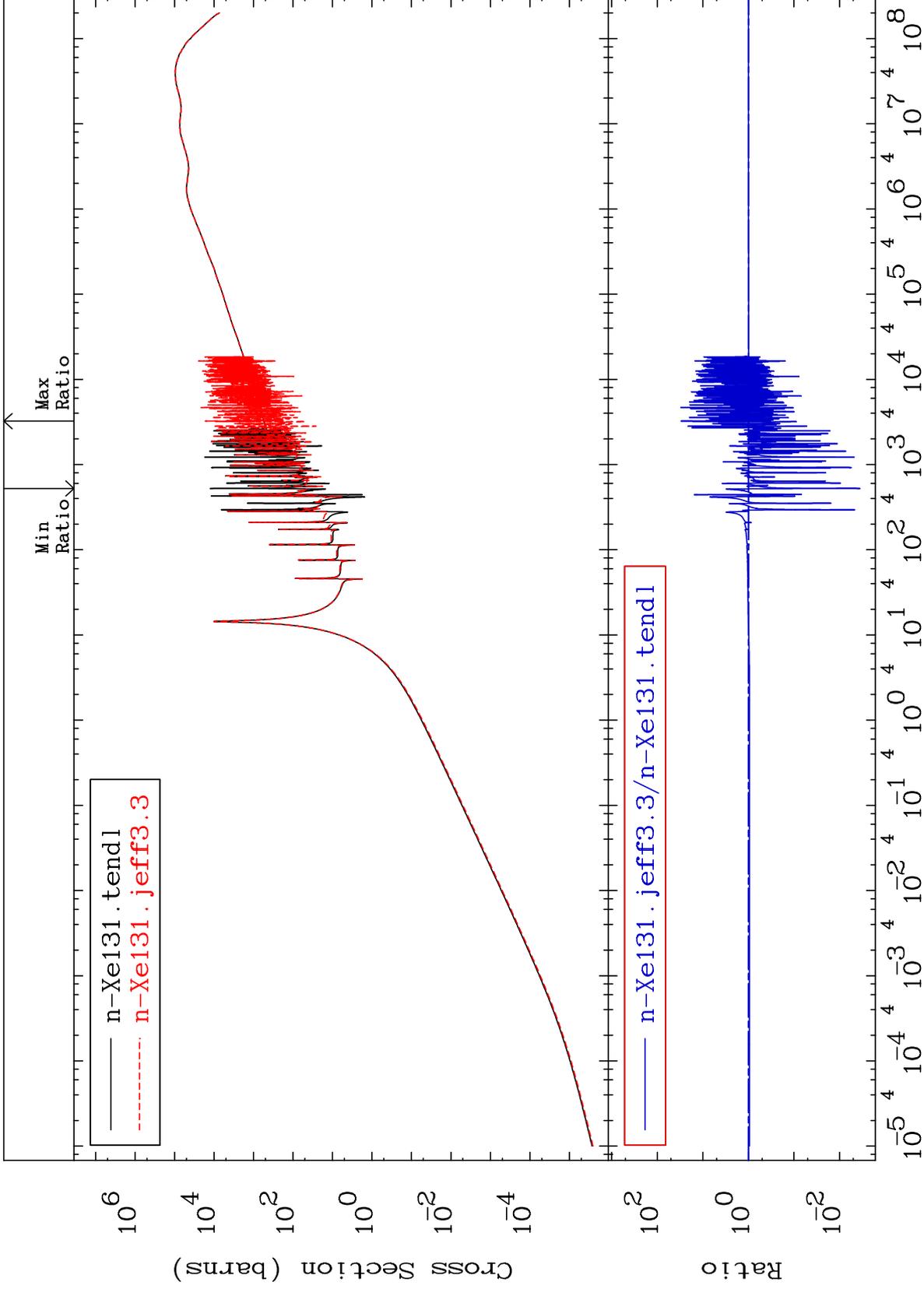
-99.99 To 1809. %



MAT 5446

Kerma elastic
Cross Section

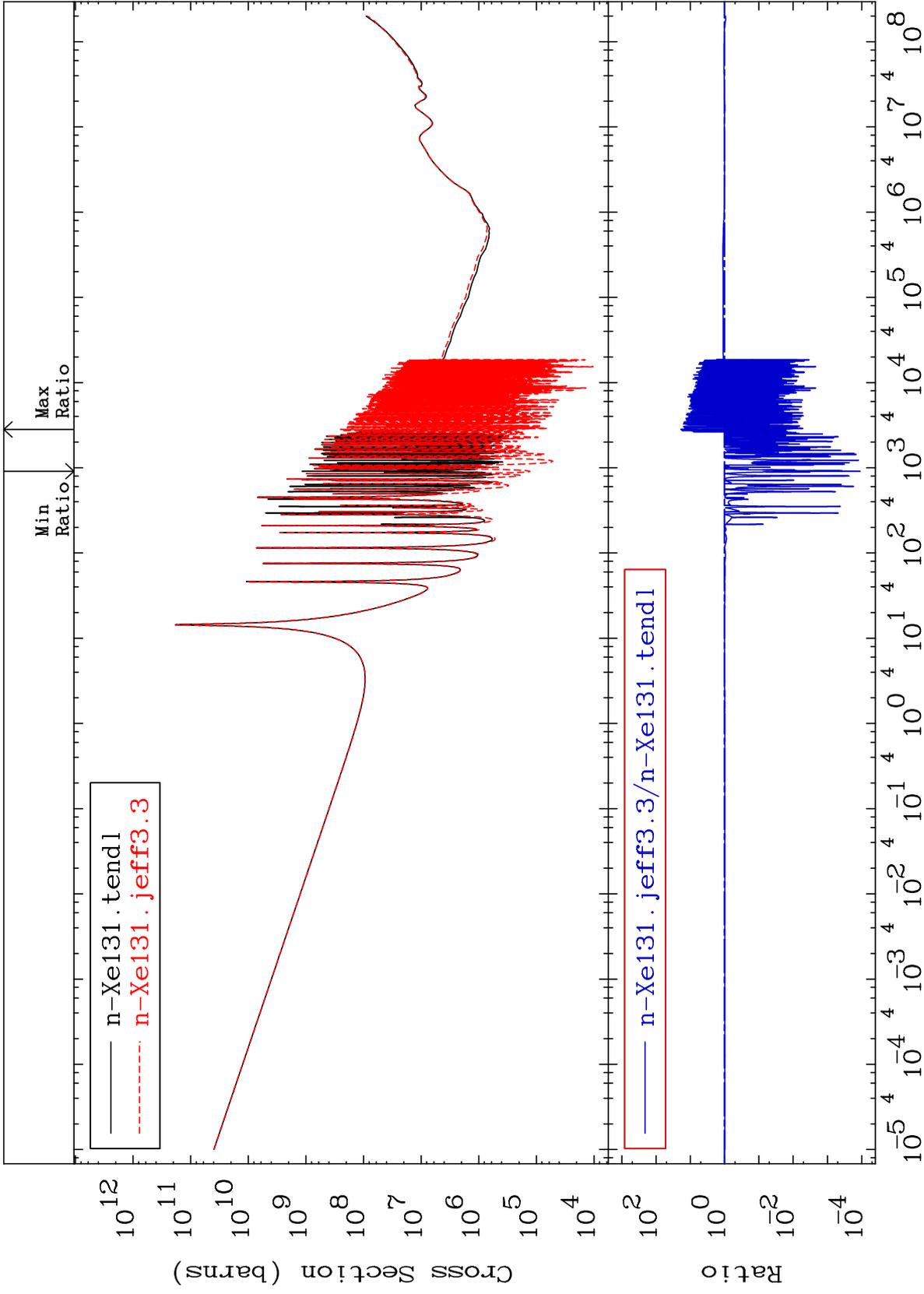
54-Xe-131
-99.65 To 2952. %

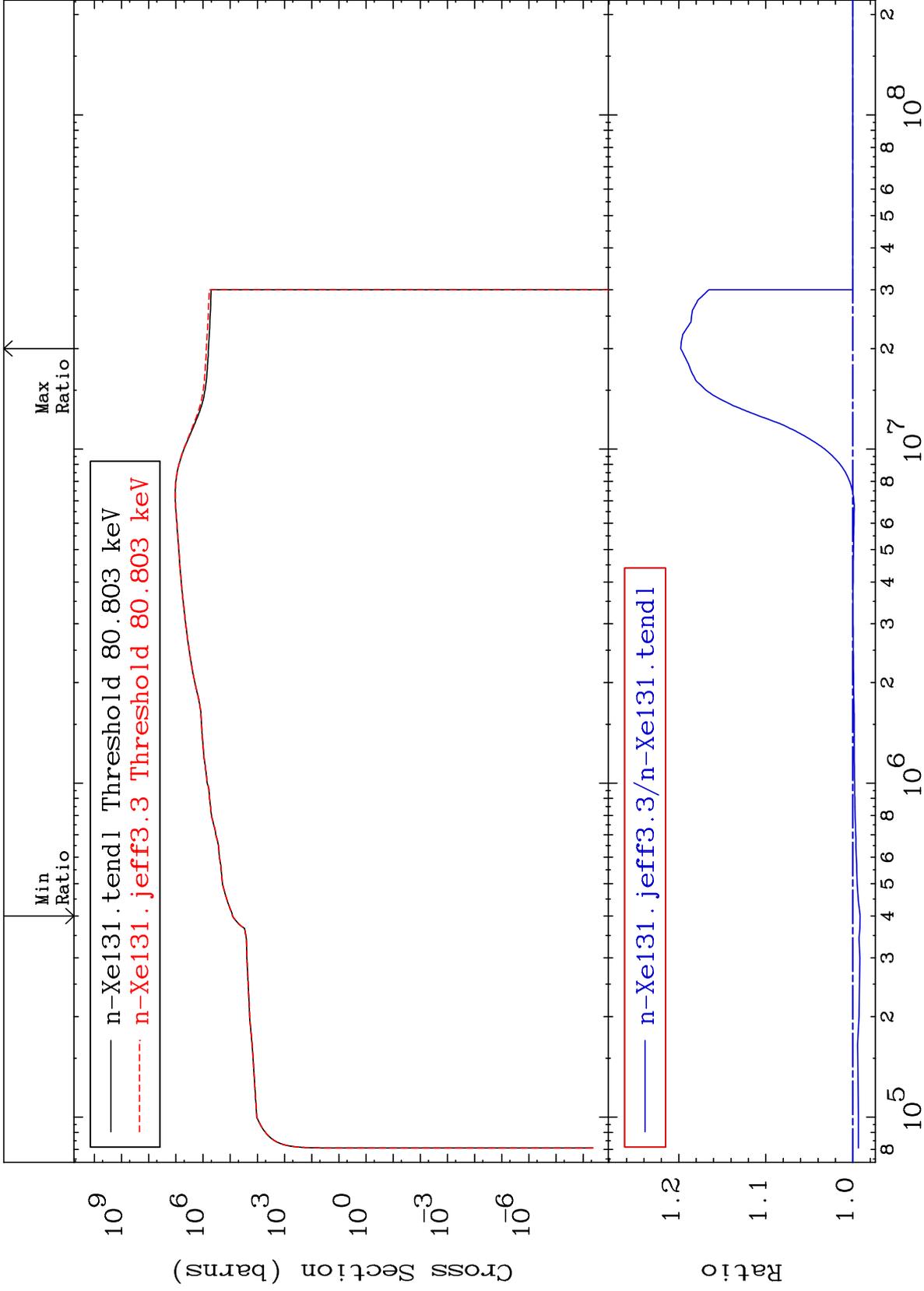


66

Incident Energy (eV)

54-Xe-131

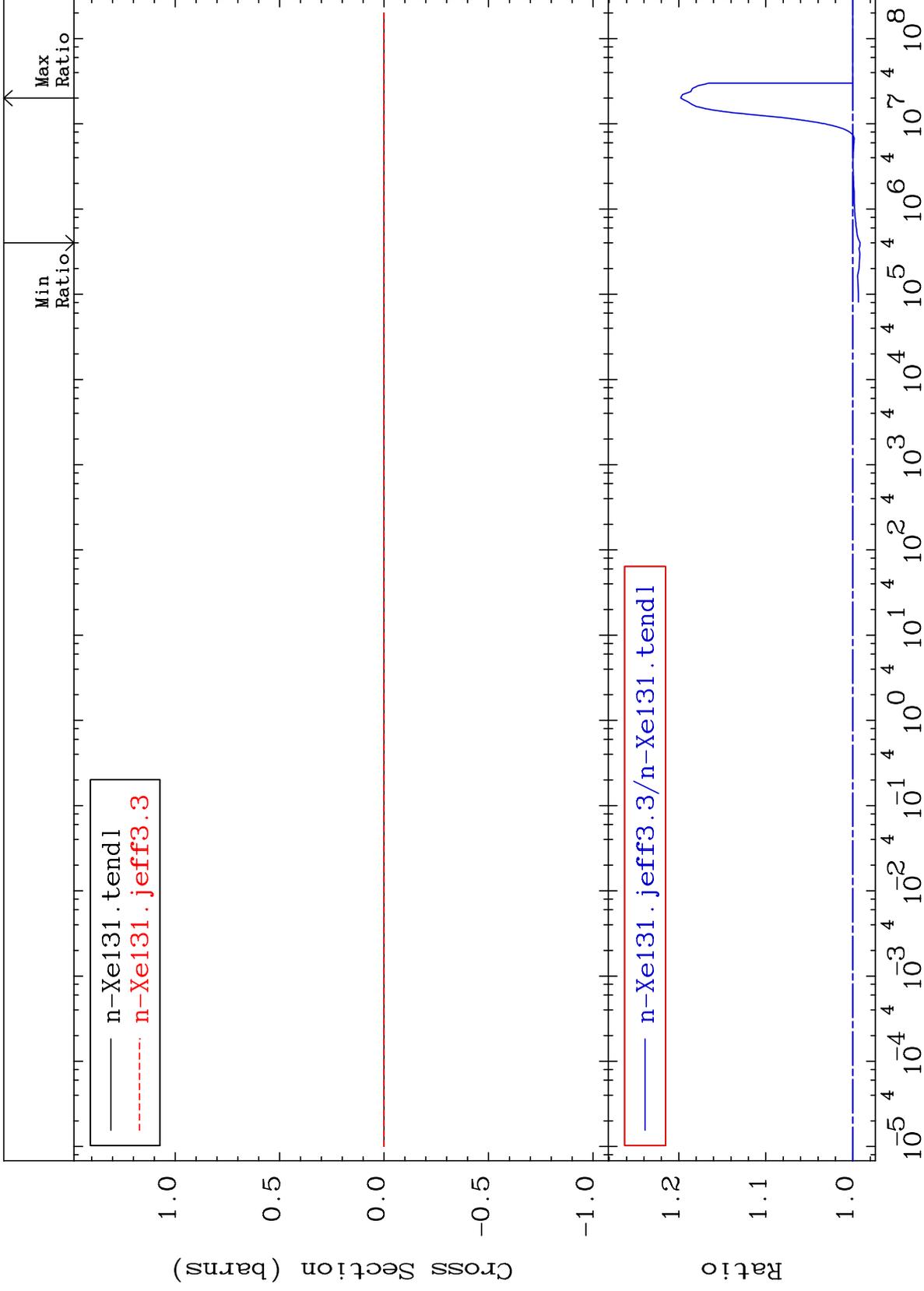




MAT 5446

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

54-Xe-131
-0.835 To 19.77 %



69

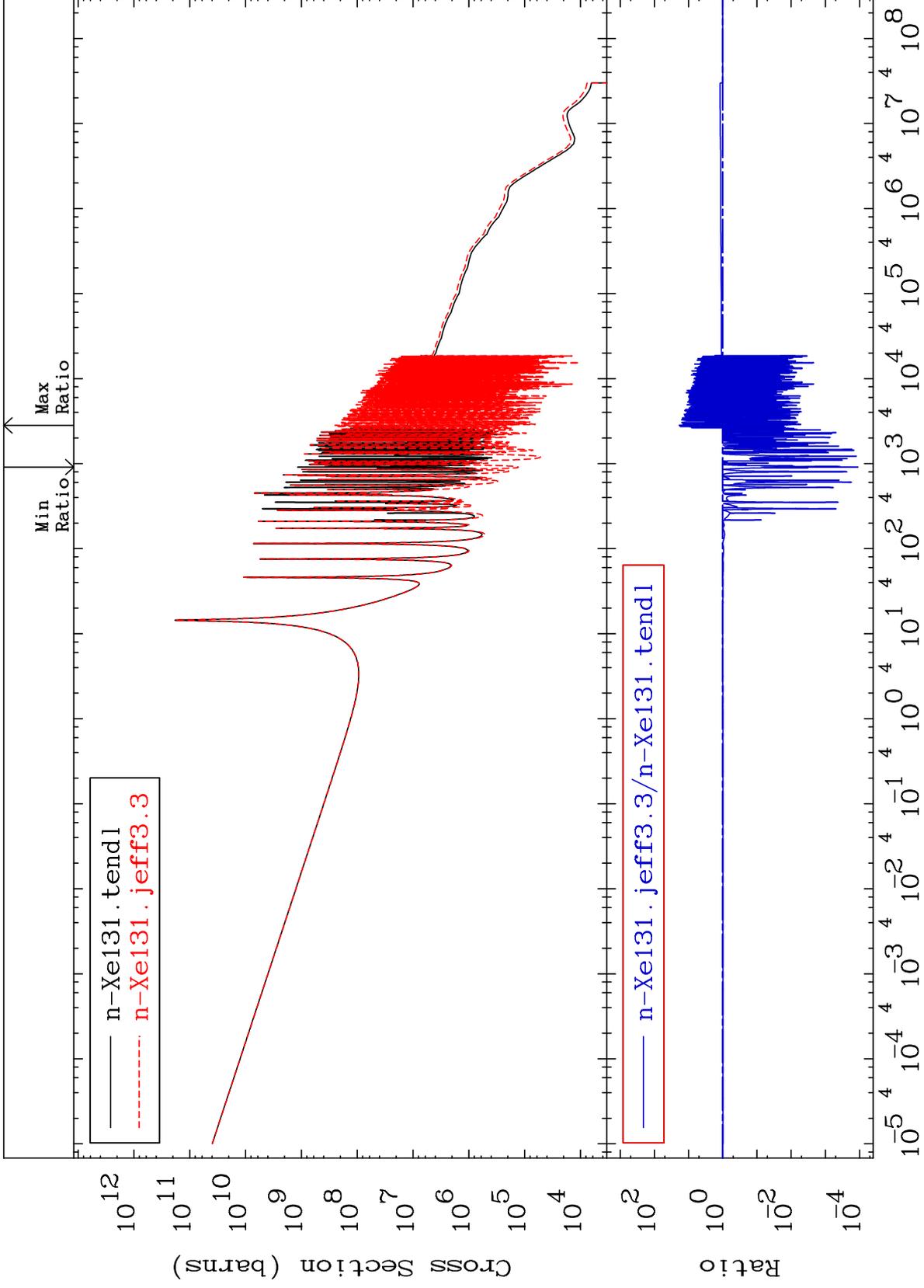
Incident Energy (eV)

54-Xe-131

MAT 5446

Kerma capture (mt102)
Cross Section

54-Xe-131
-99.99 To 1809. %



70

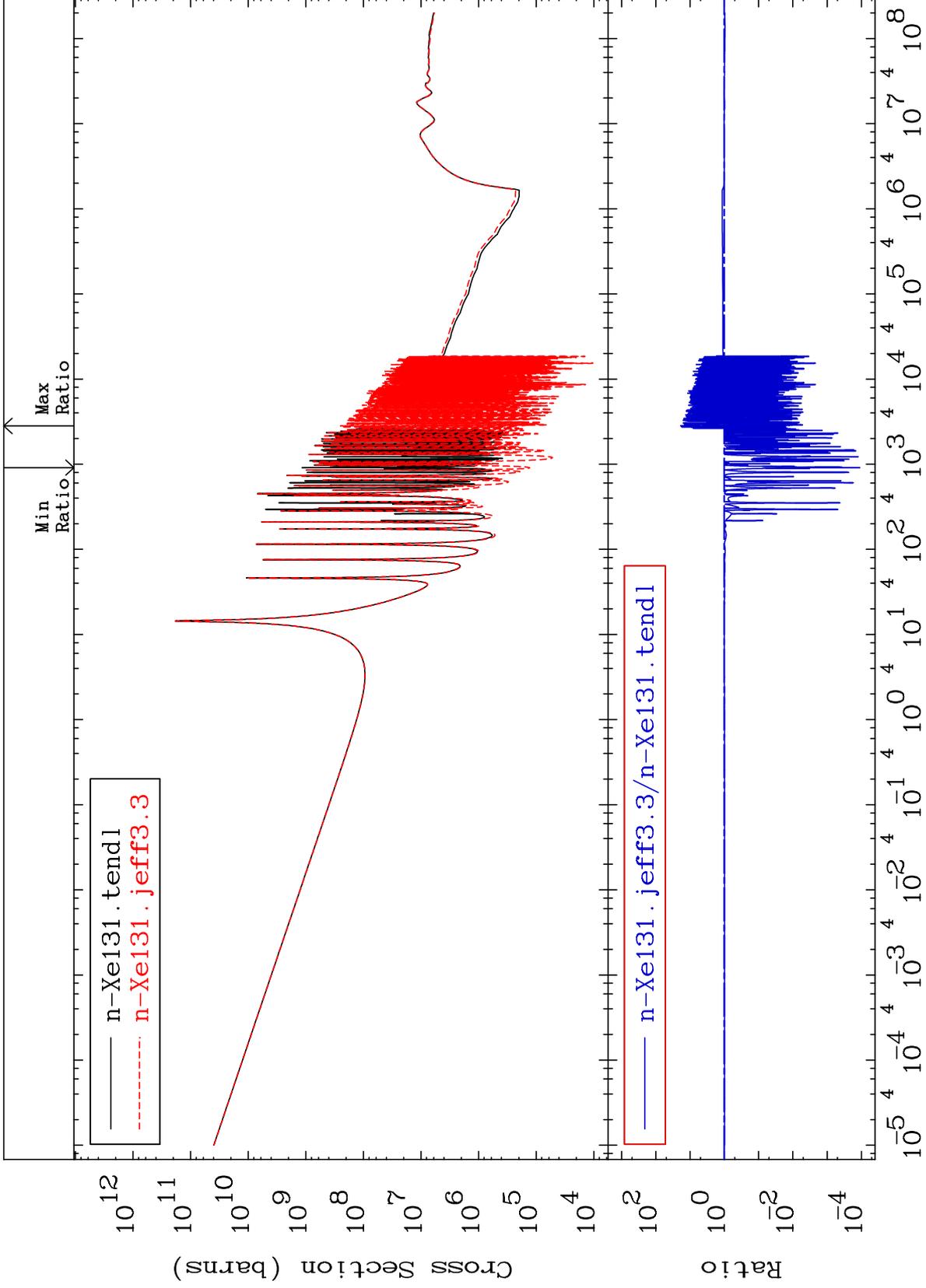
Incident Energy (eV)

54-Xe-131

MAT 5446

Total photon (eV-barns)
Cross Section

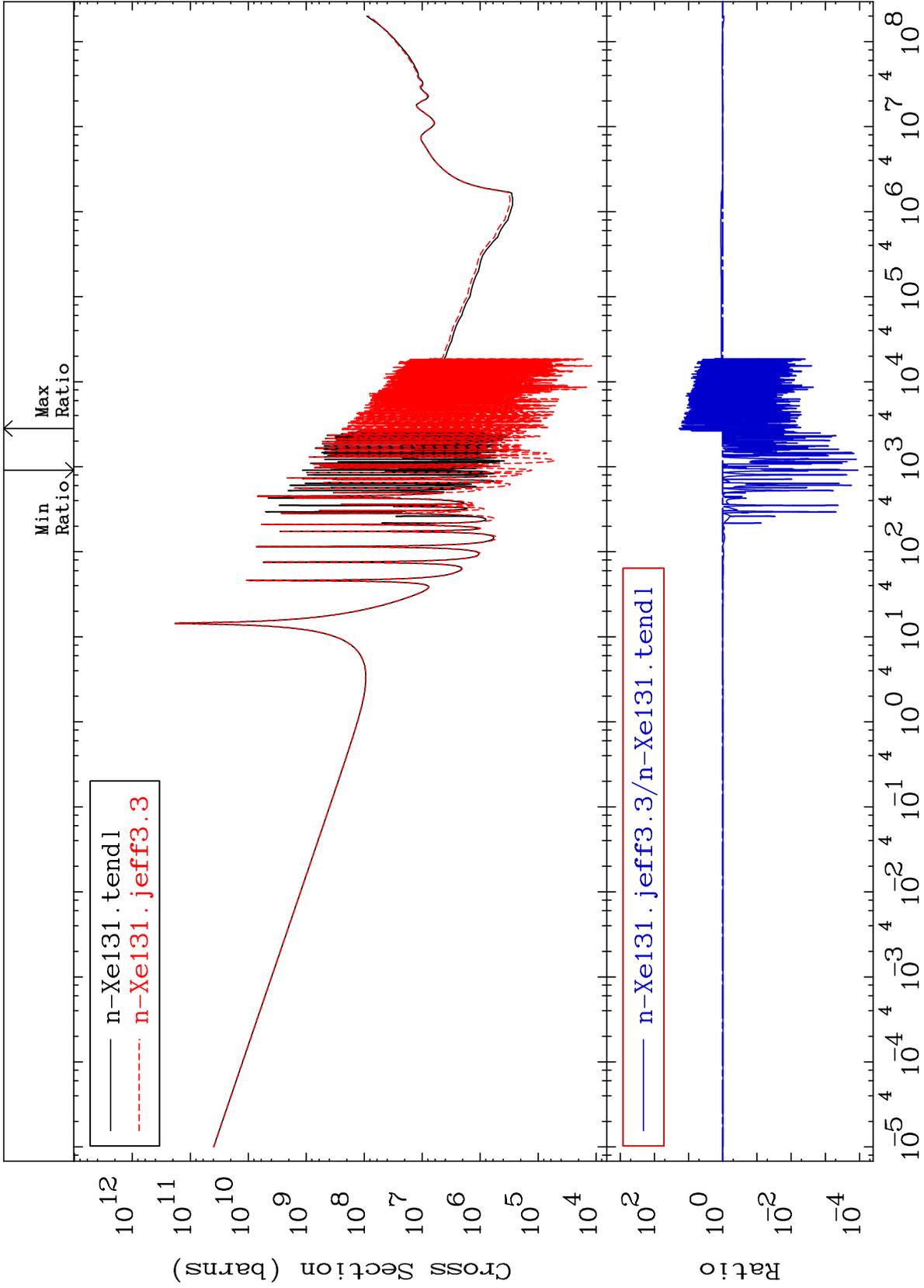
54-Xe-131
-99.99 To 1809. %



71

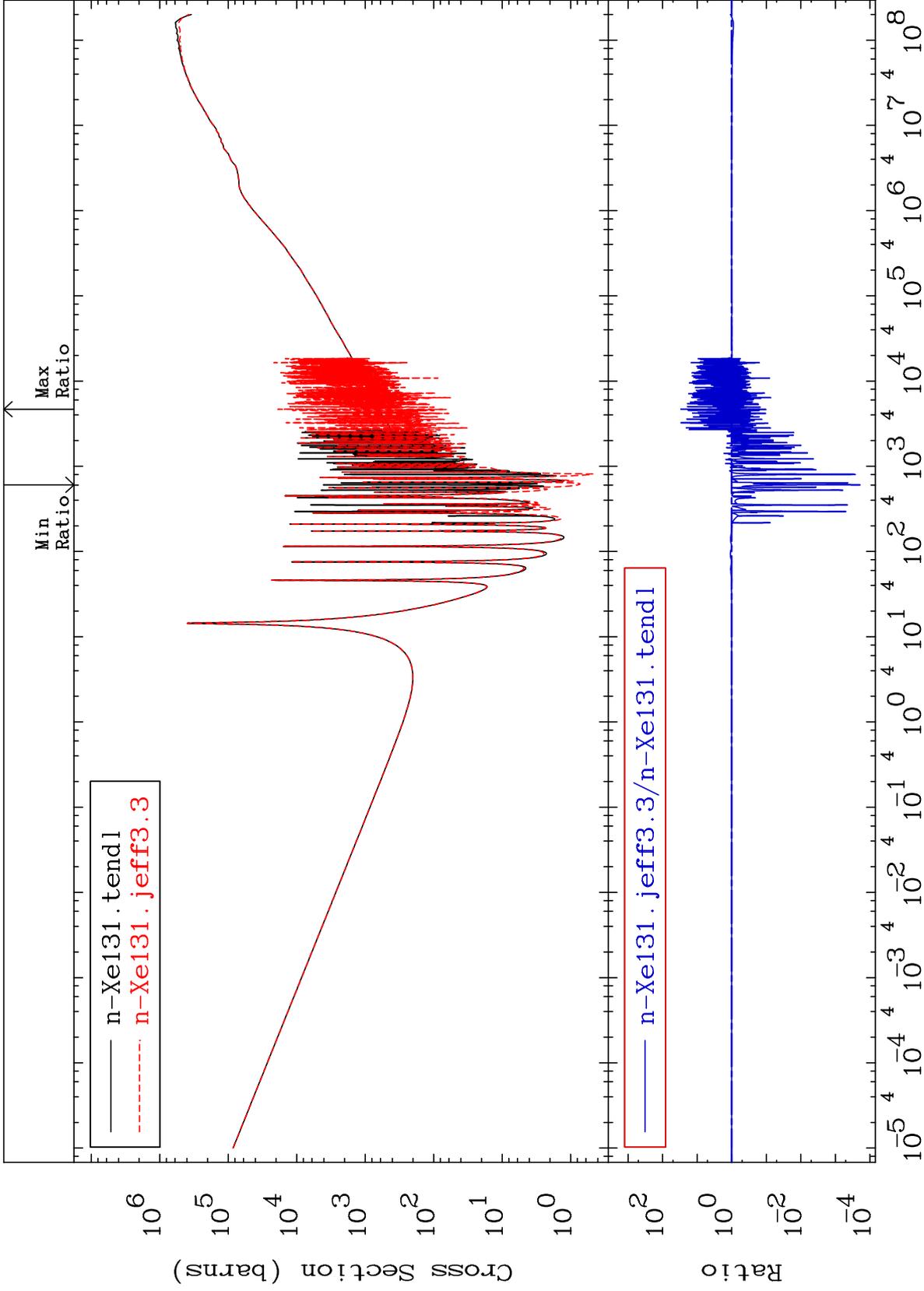
Incident Energy (eV)

54-Xe-131



Cross Section

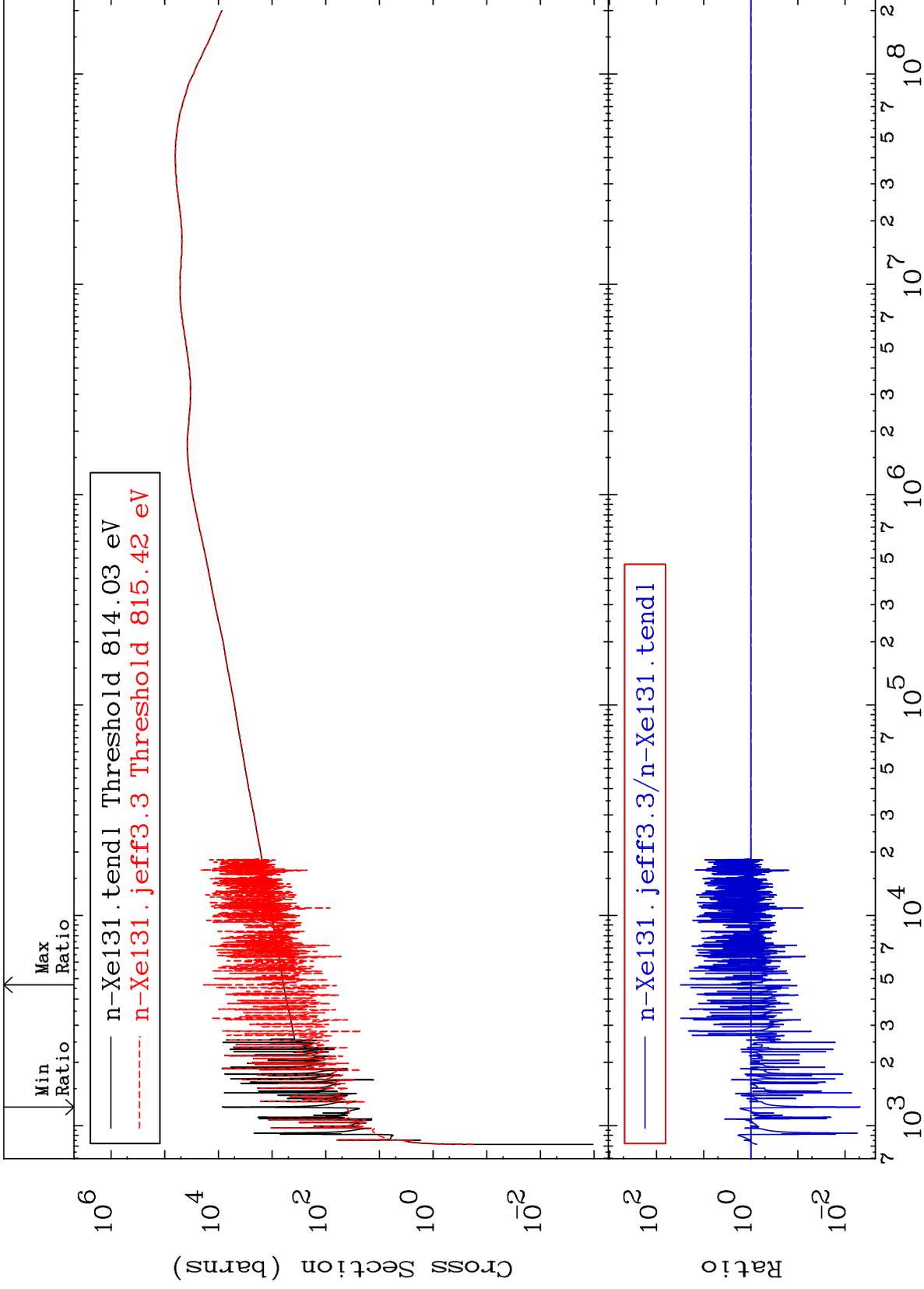
-99.98 To 2878. %



MAT 5446

Dpa elastic (mt2)
Cross Section

54-Xe-131
-99.52 To 2962. %



74

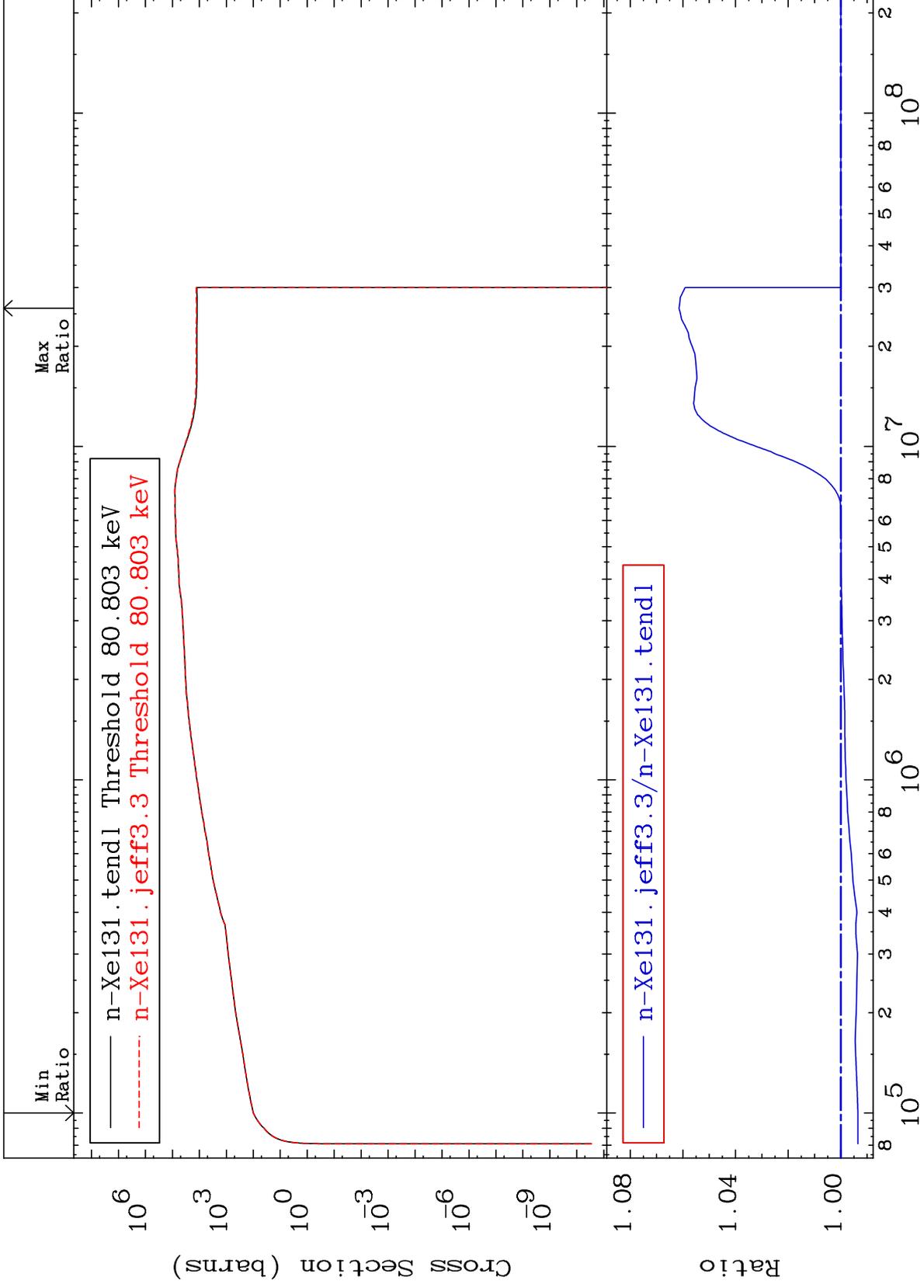
Incident Energy (eV)

54-Xe-131

MAT 5446

Dpa inelastic (mt51-91)
Cross Section

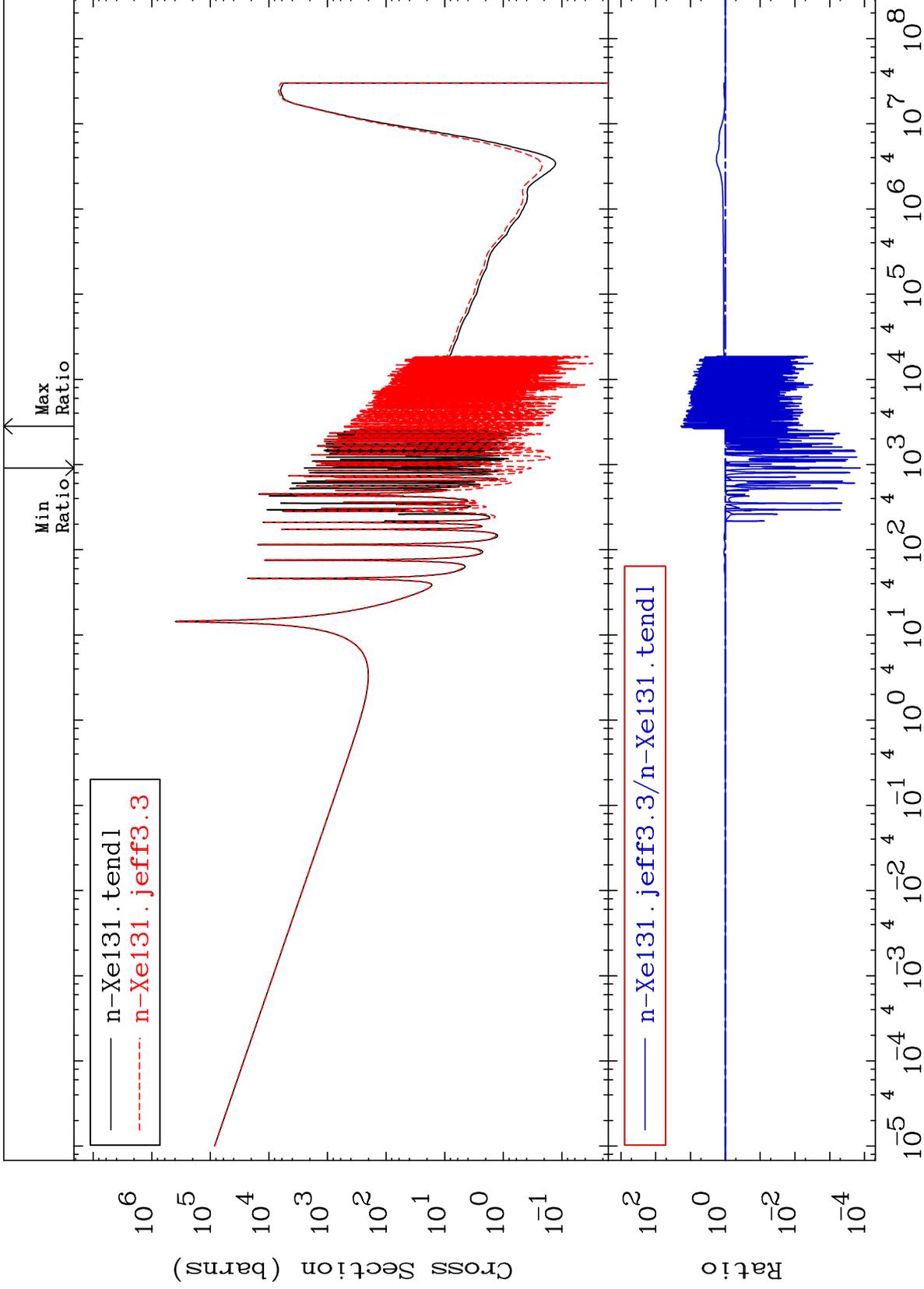
54-Xe-131
-0.650 To 6.146 %



75

Incident Energy (eV)

54-Xe-131



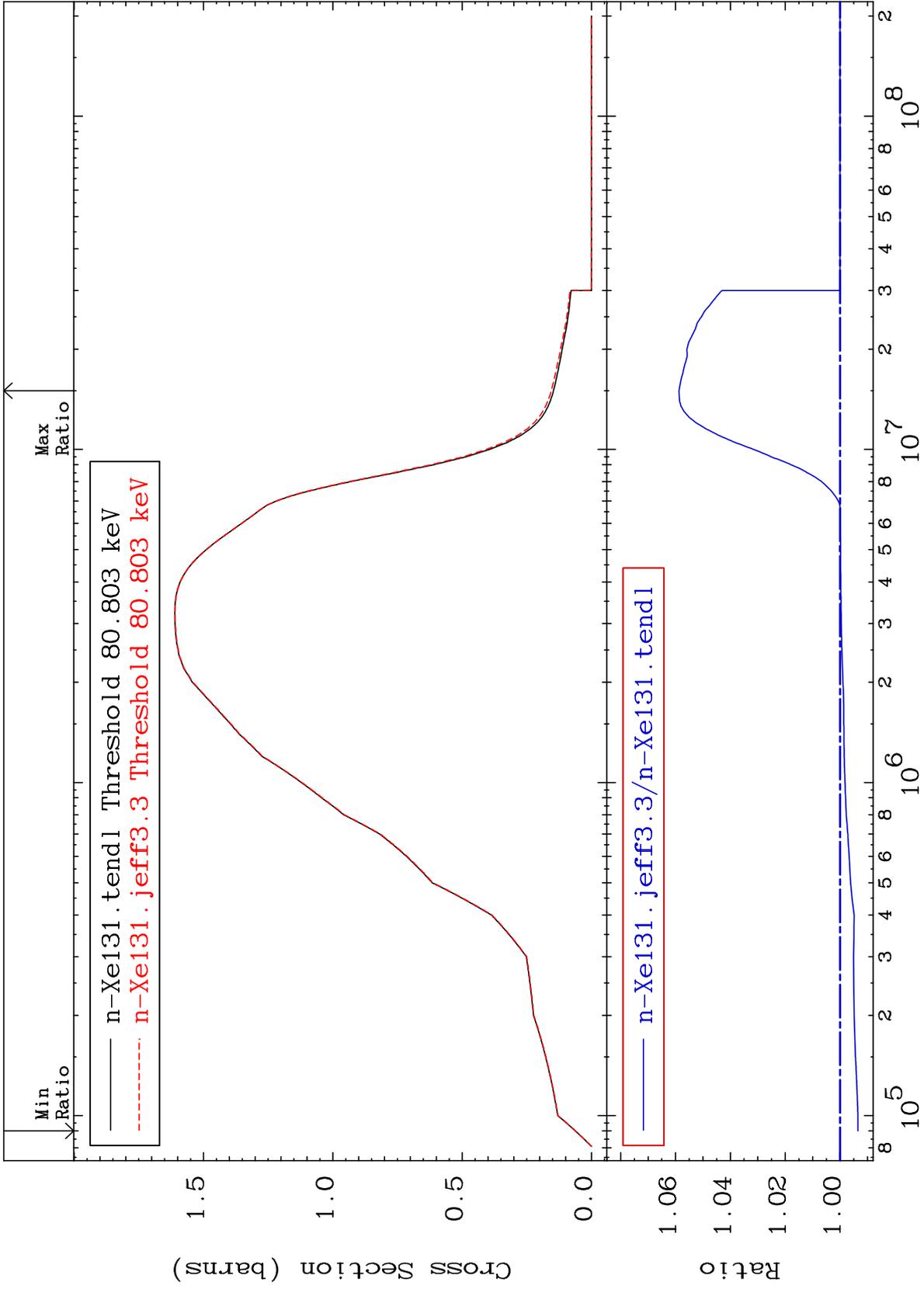
MAT 5446

Inelastic:54-Xe-131g

54-Xe-131

Radionuclide Production Cross Section

-0.650 To 5.871 %



77

Incident Energy (eV)

54-Xe-131

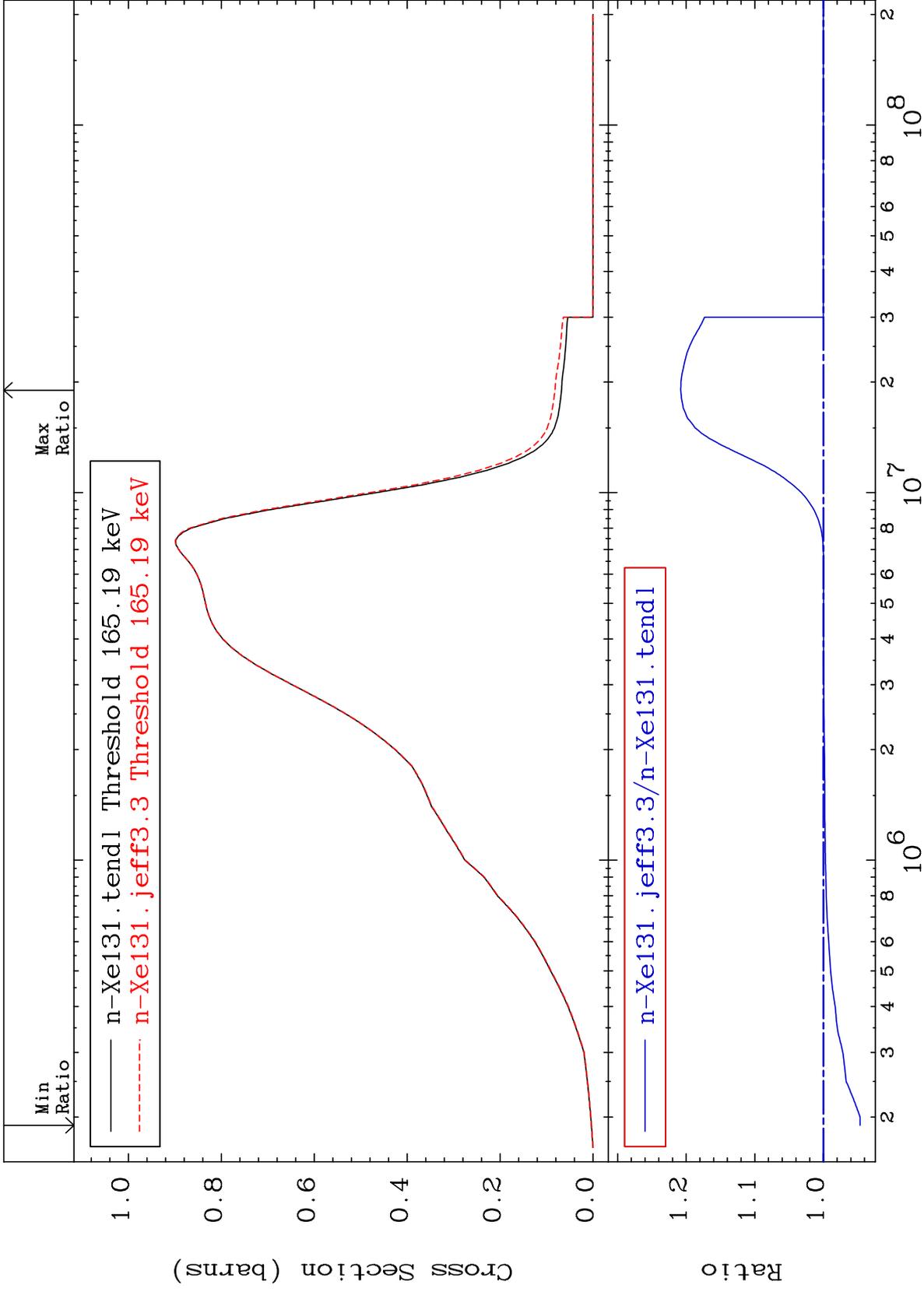
MAT 5446

Inelastic:54-Xe-131m2

54-Xe-131

Radionuclide Production Cross Section

-5.349 To 20.79 %



78

Incident Energy (eV)

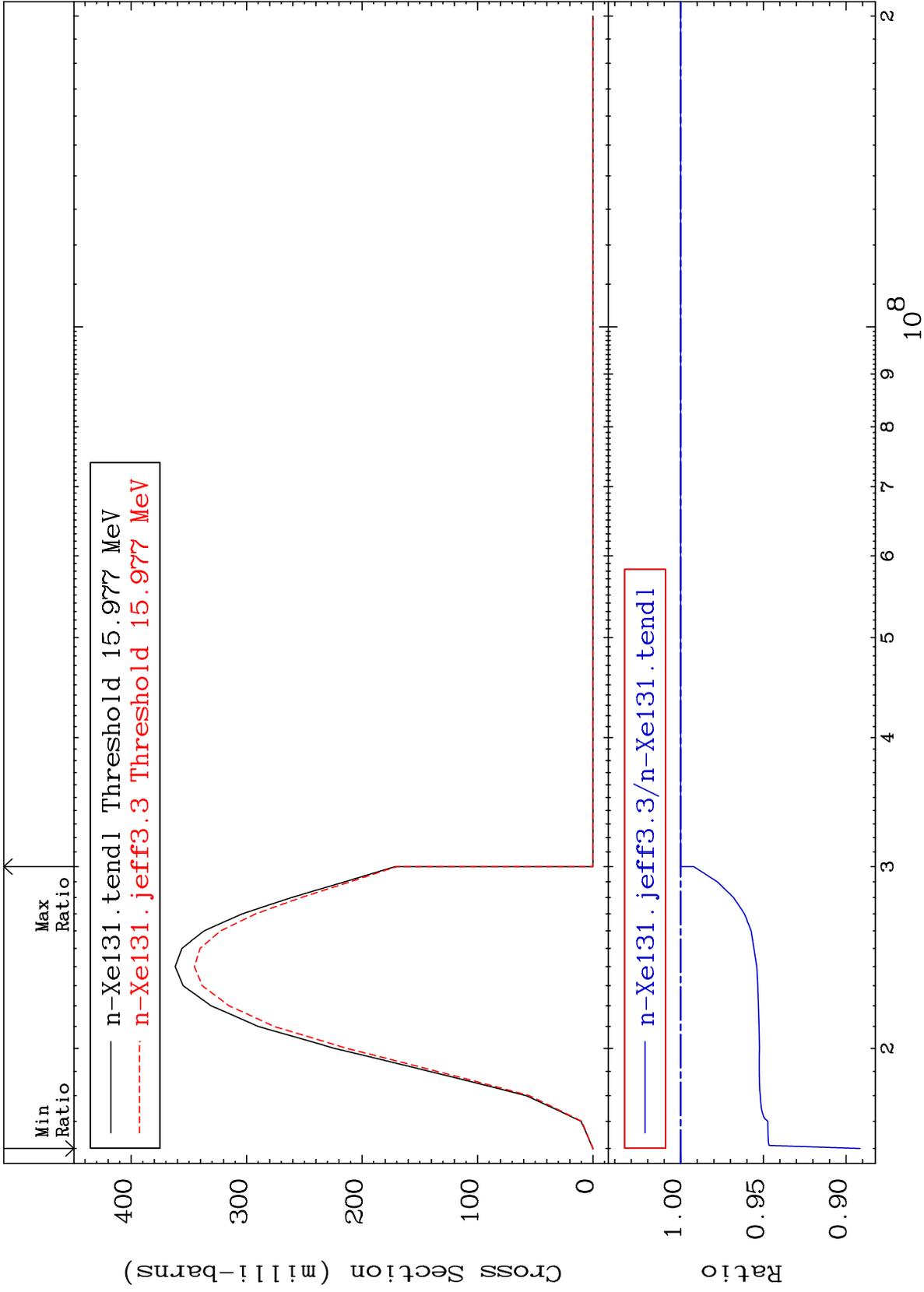
54-Xe-131

MAT 5446

(n,3n):54-Xe-129g

54-Xe-131

Radionuclide Production Cross Section -10.85 To 0.000 %



79

Incident Energy (eV)

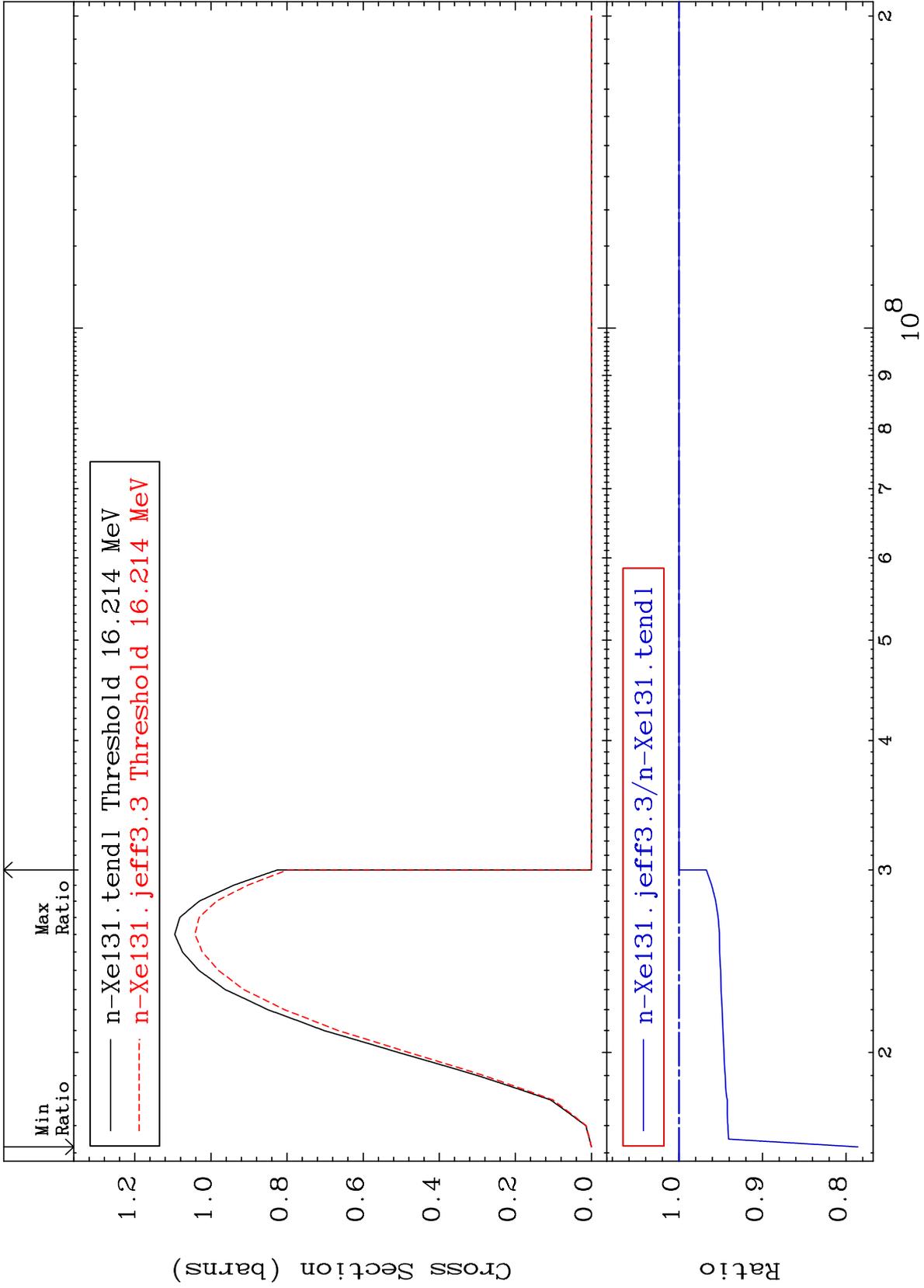
54-Xe-131

MAT 5446

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

54-Xe-131

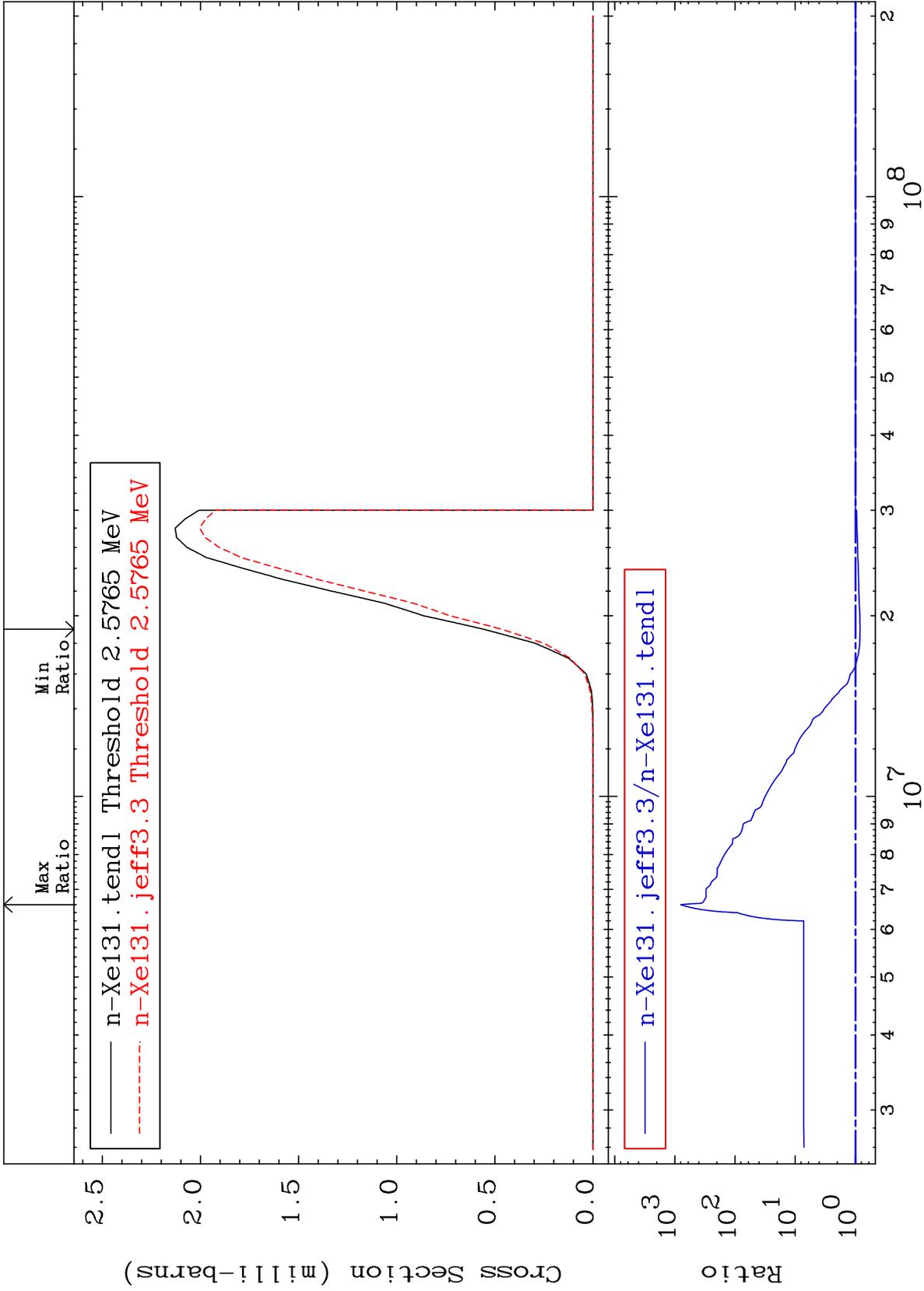
Radionuclide Production Cross Section -21.43 To 0.000 %



80

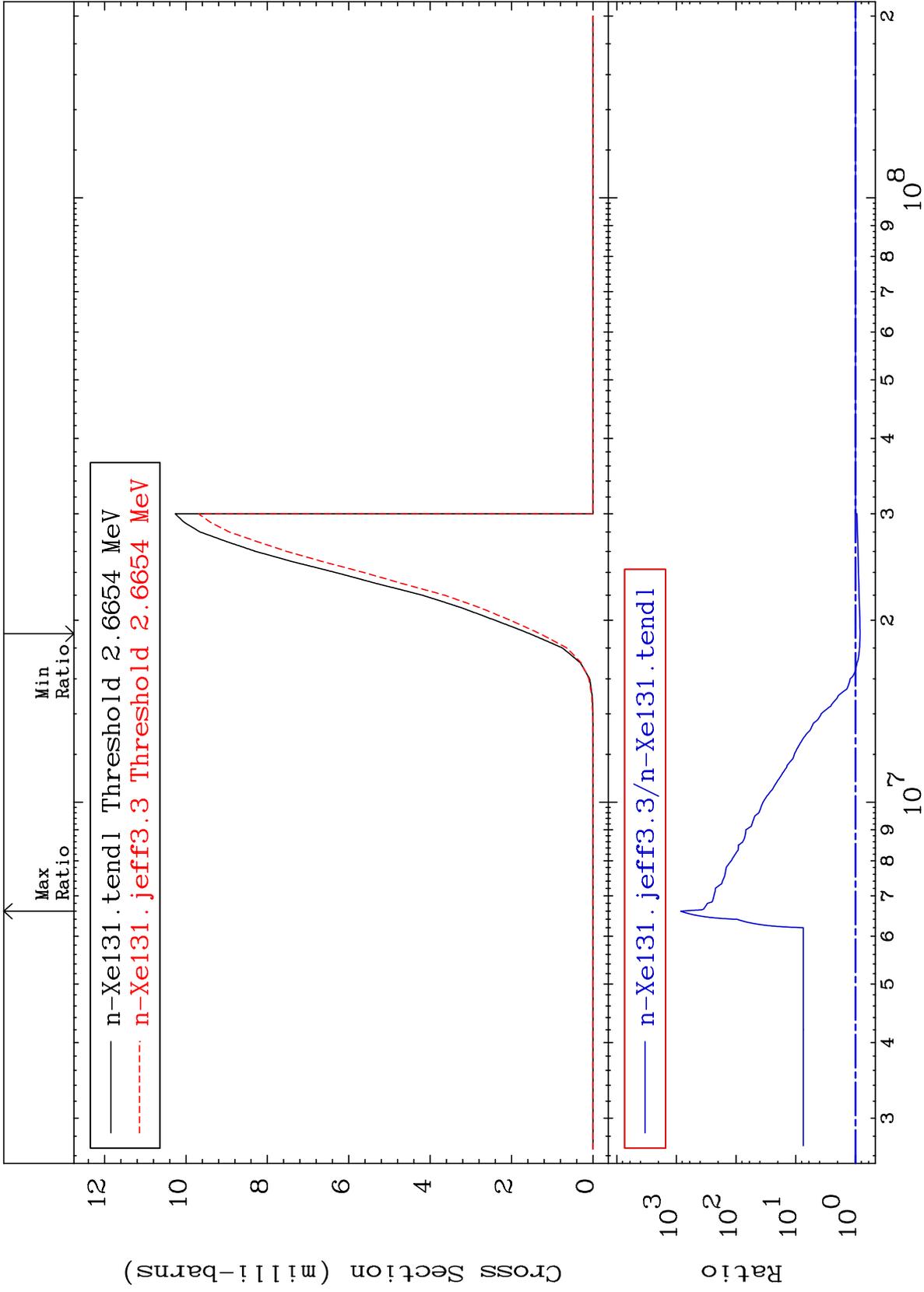
Incident Energy (eV)

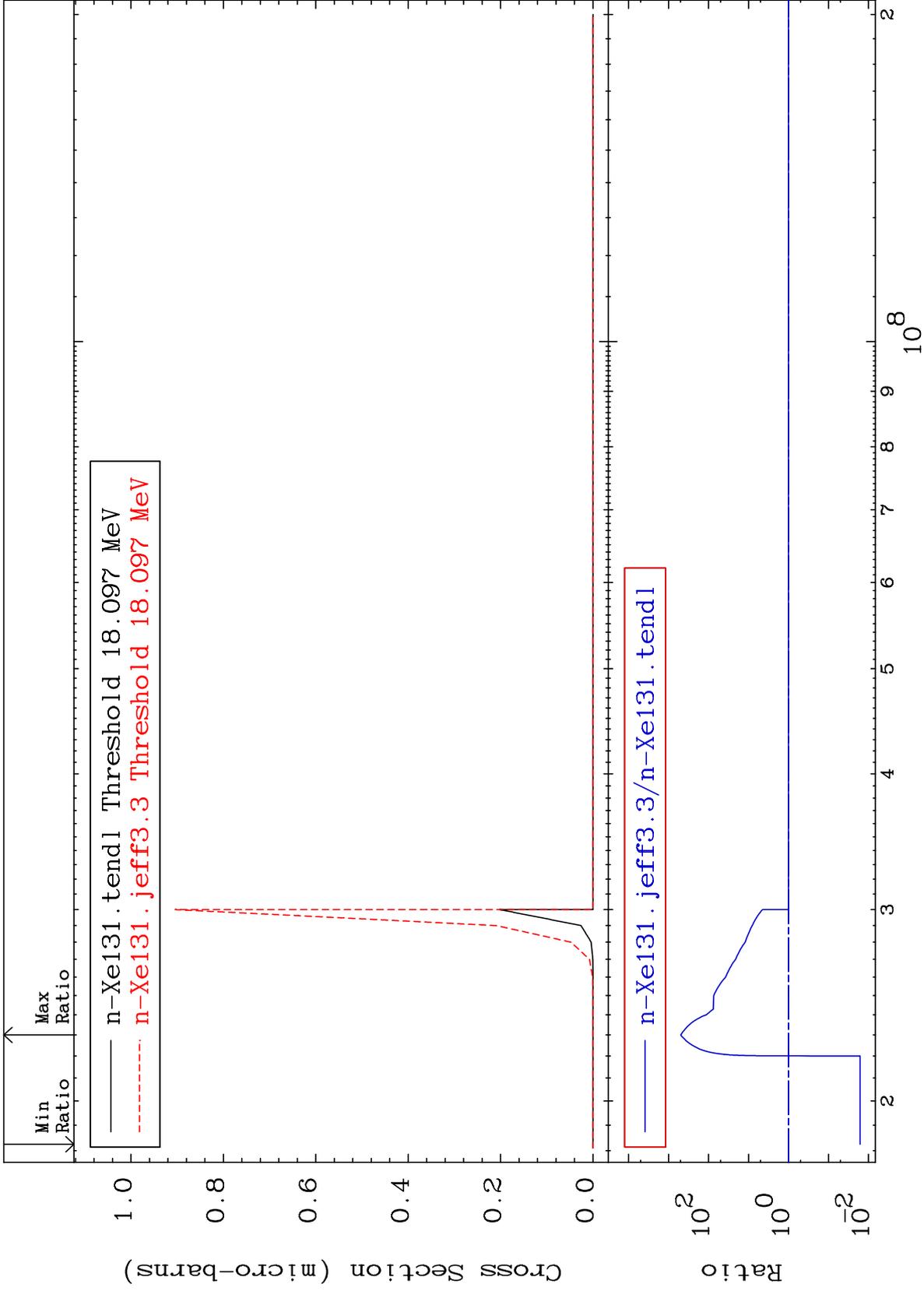
54-Xe-131

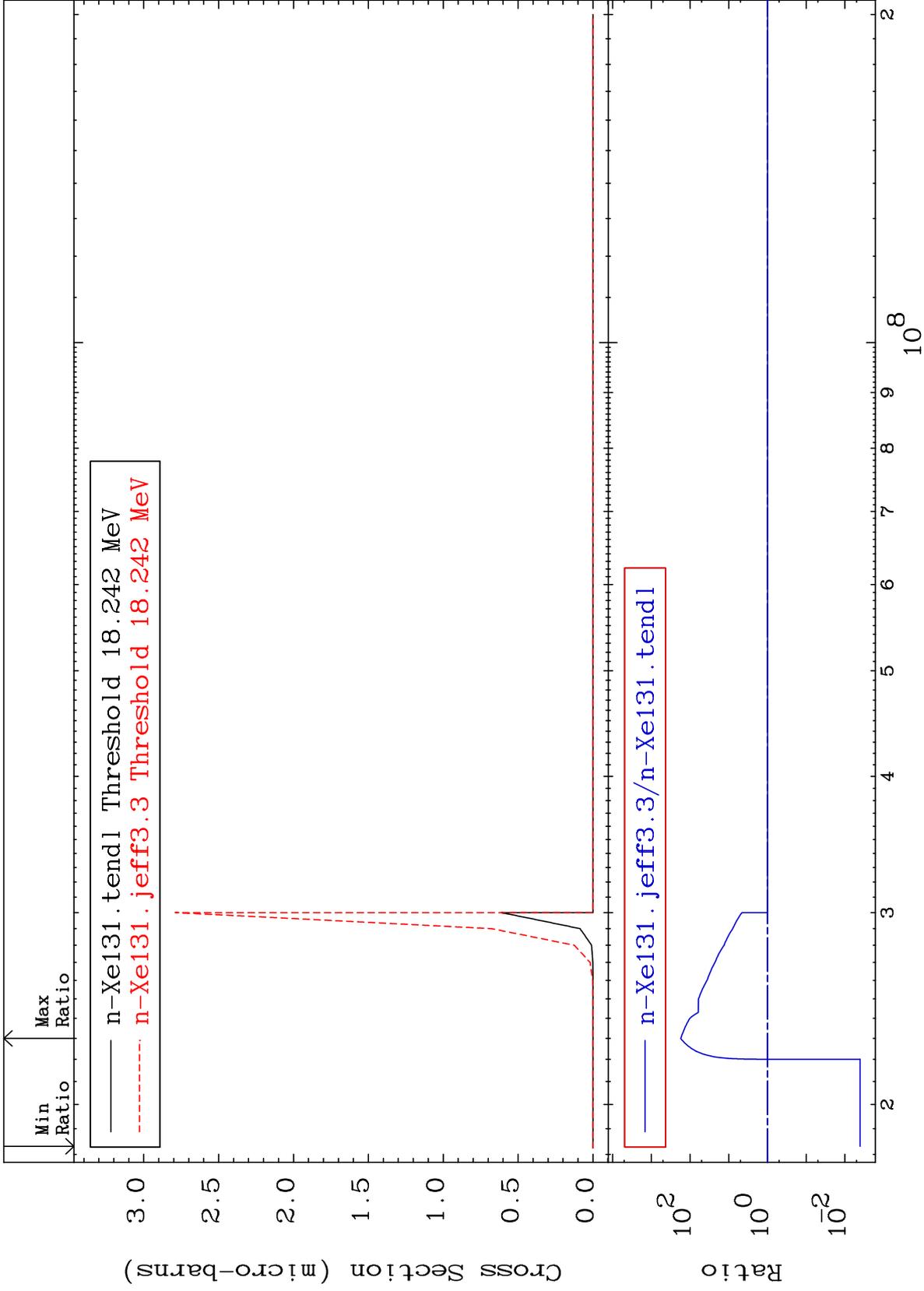


MAT 5446

(n, n') α :52-Te-127m2 54-Xe-131
Radionuclide Production Cross Section -16.33 To 9999. %





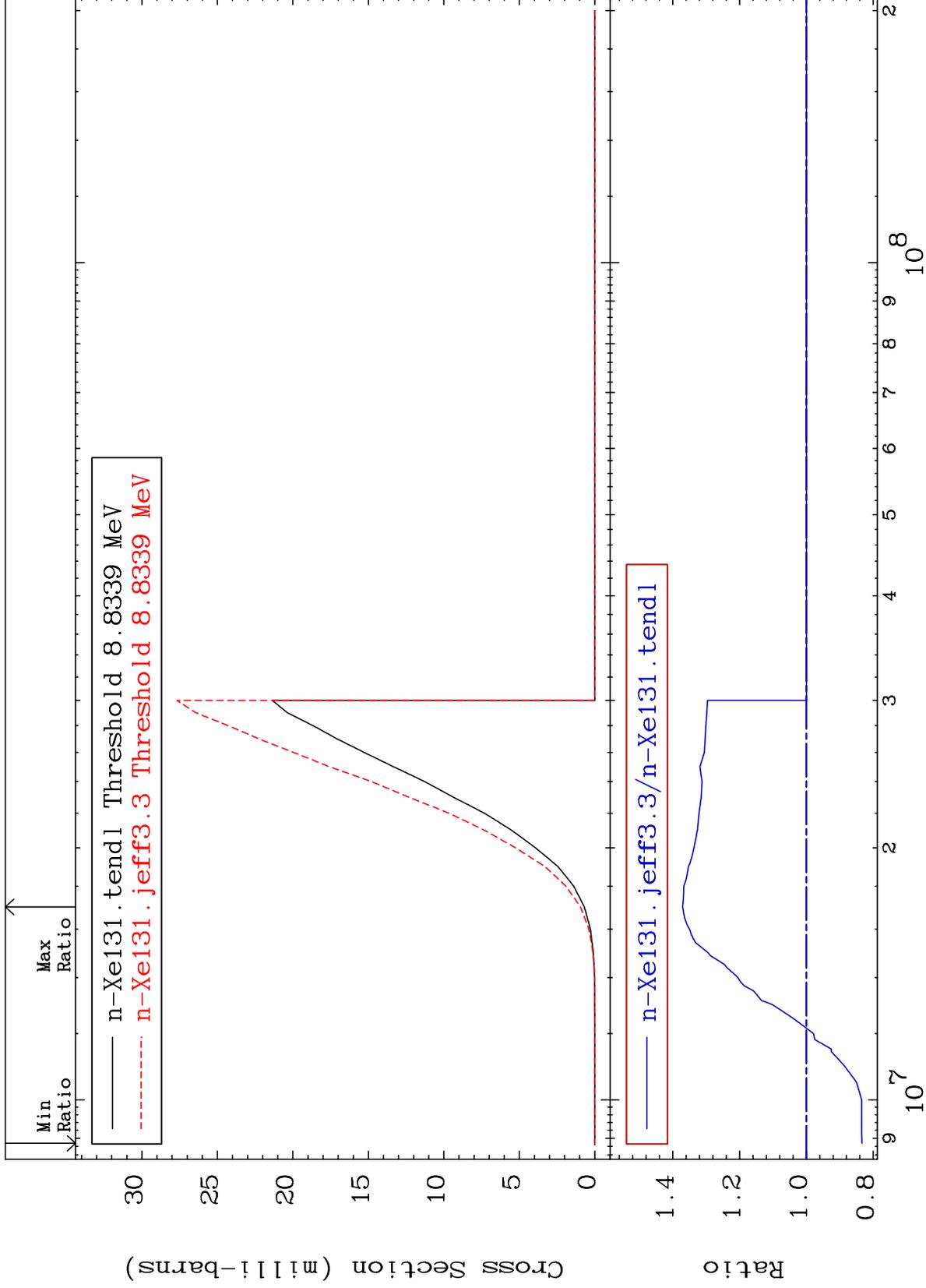


MAT 5446

(n, n') p:53-I -130g

54-Xe-131

Radionuclide Production Cross Section -16.66 To 37.03 %



85

Incident Energy (eV)

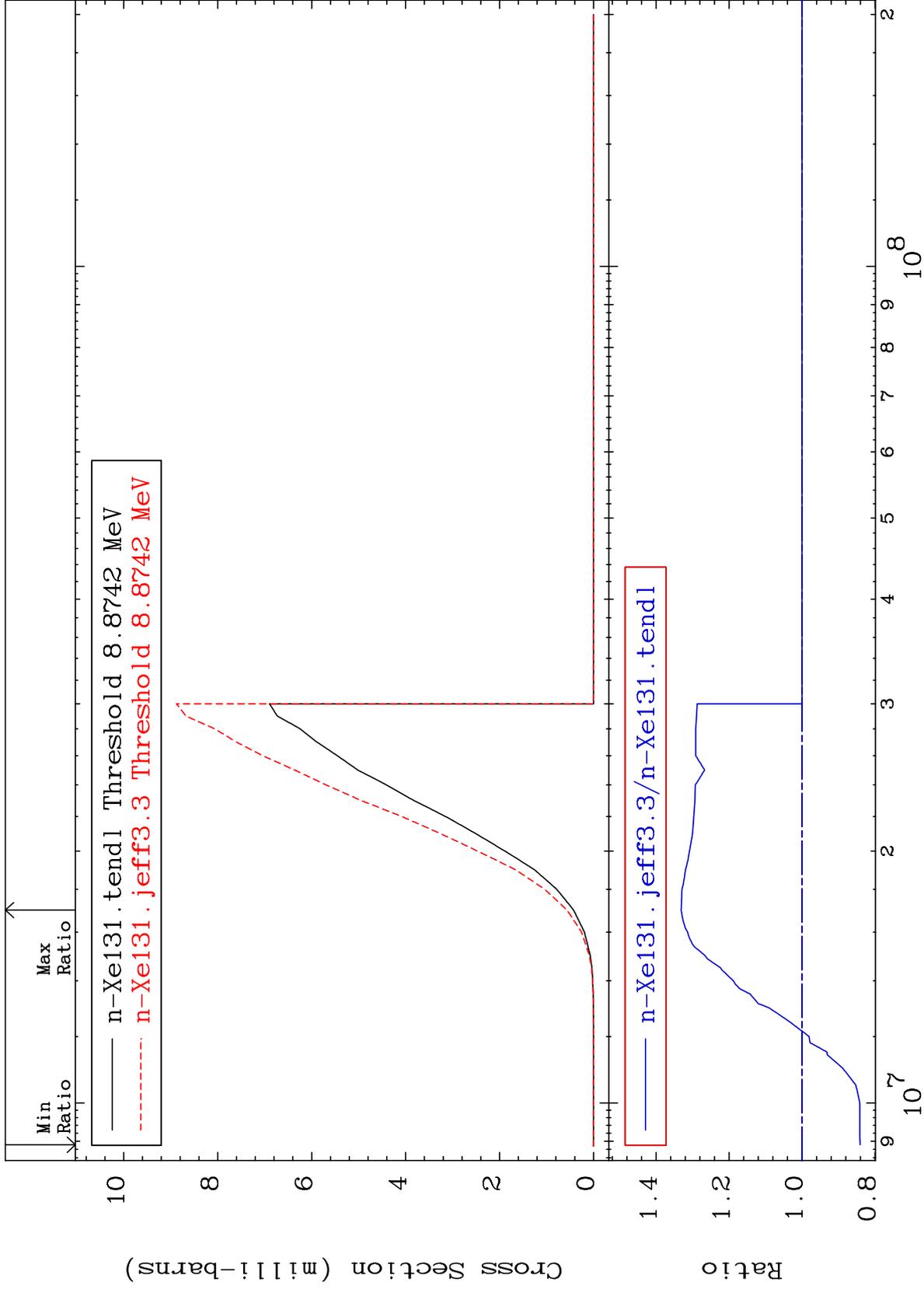
54-Xe-131

MAT 5446

(n,n') p:53-I -130m1

54-Xe-131

Radionuclide Production Cross Section -15.97 To 33.12 %



86

Incident Energy (eV)

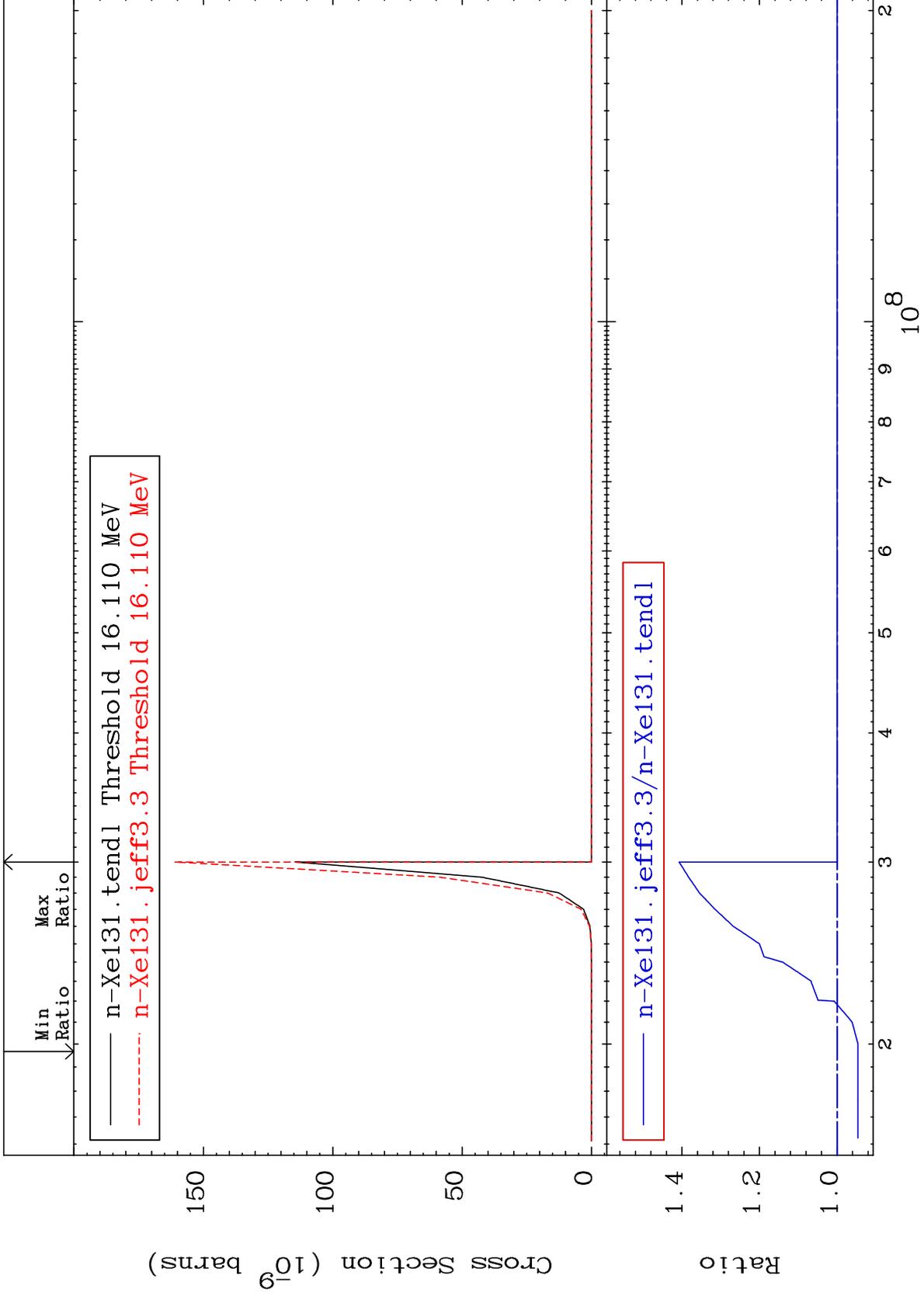
54-Xe-131

MAT 5446

(n,2n) p:52-Te-129g

54-Xe-131

Radionuclide Production Cross Section -5.382 To 40.74 %



87

Incident Energy (eV)

54-Xe-131

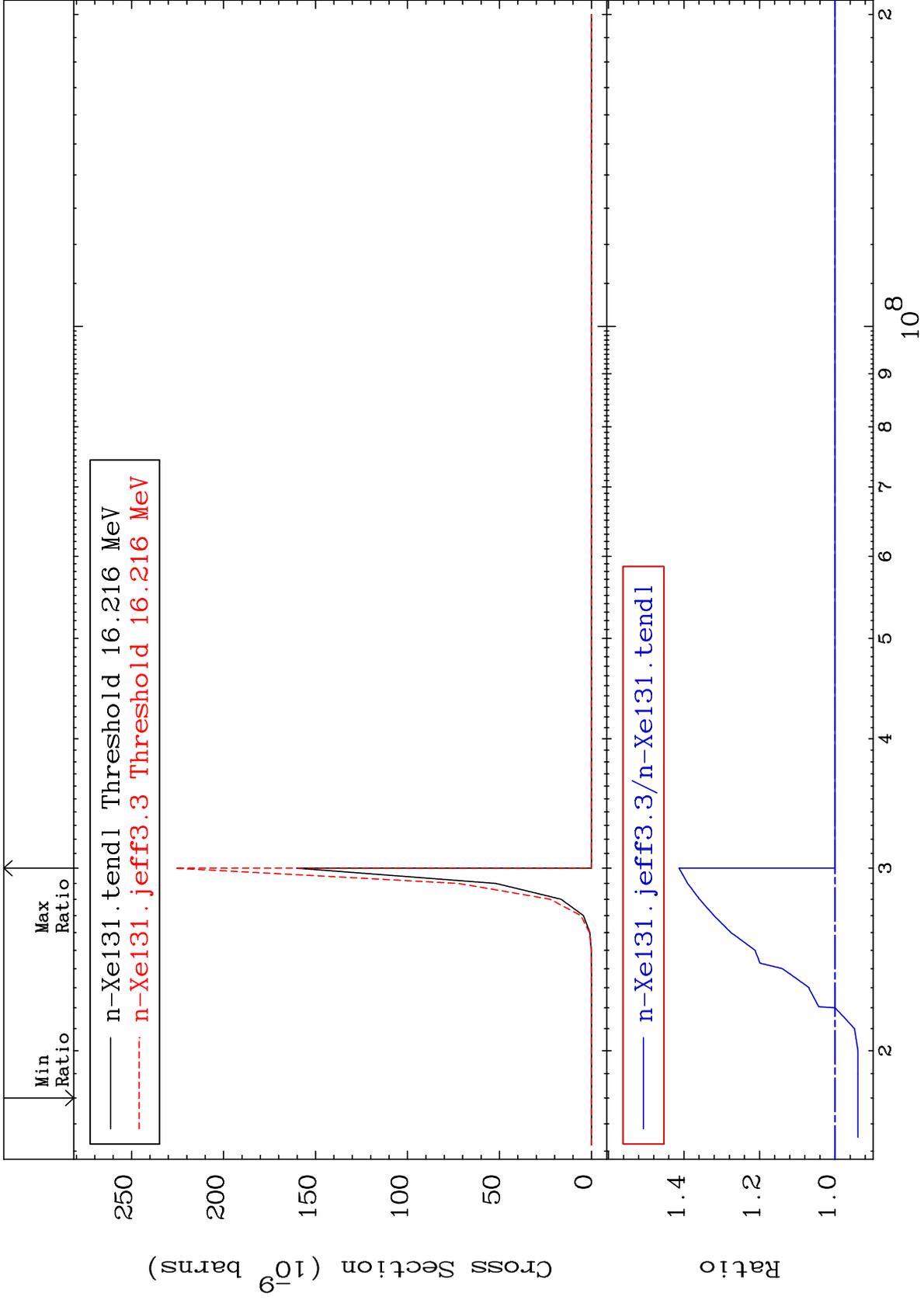
MAT 5446

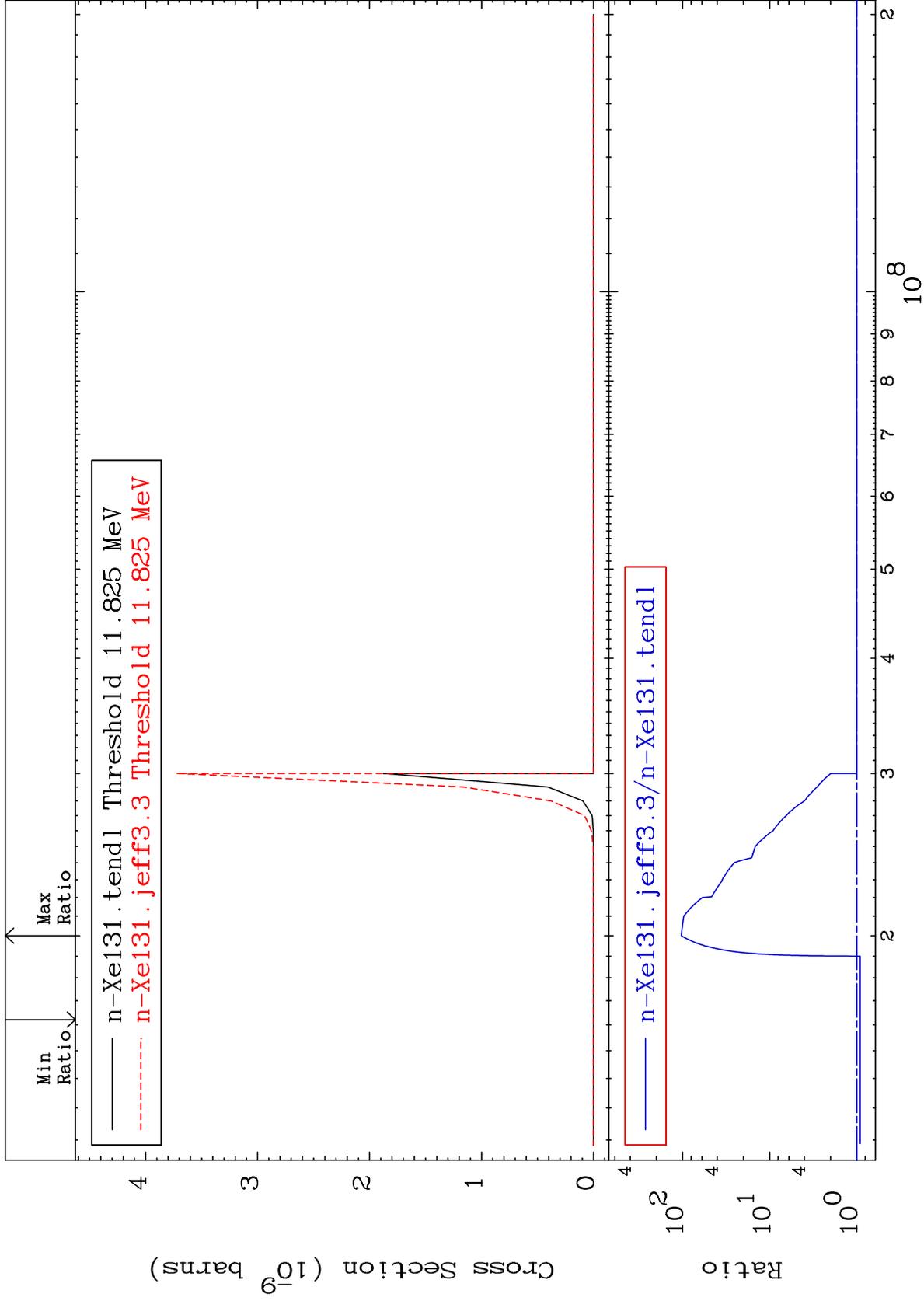
(n,2n) p:52-Te-129m1

54-Xe-131

Radionuclide Production Cross Section

-6.047 To 41.31 %



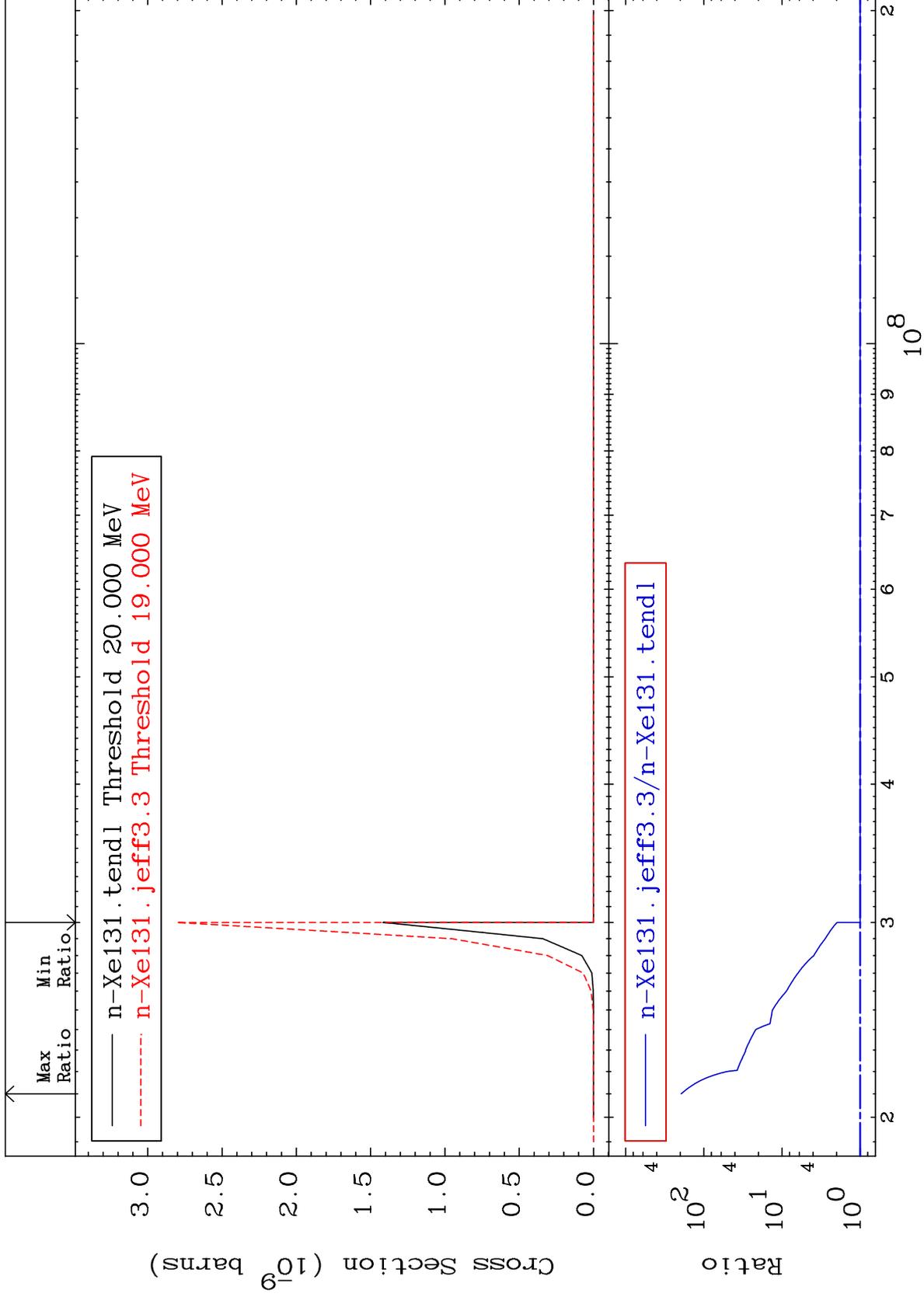


MAT 5446

(n, n') p α :51-Sb-126m1

54-Xe-131

Radionuclide Production Cross Section 0.000 To 9999. %



90

Incident Energy (eV)

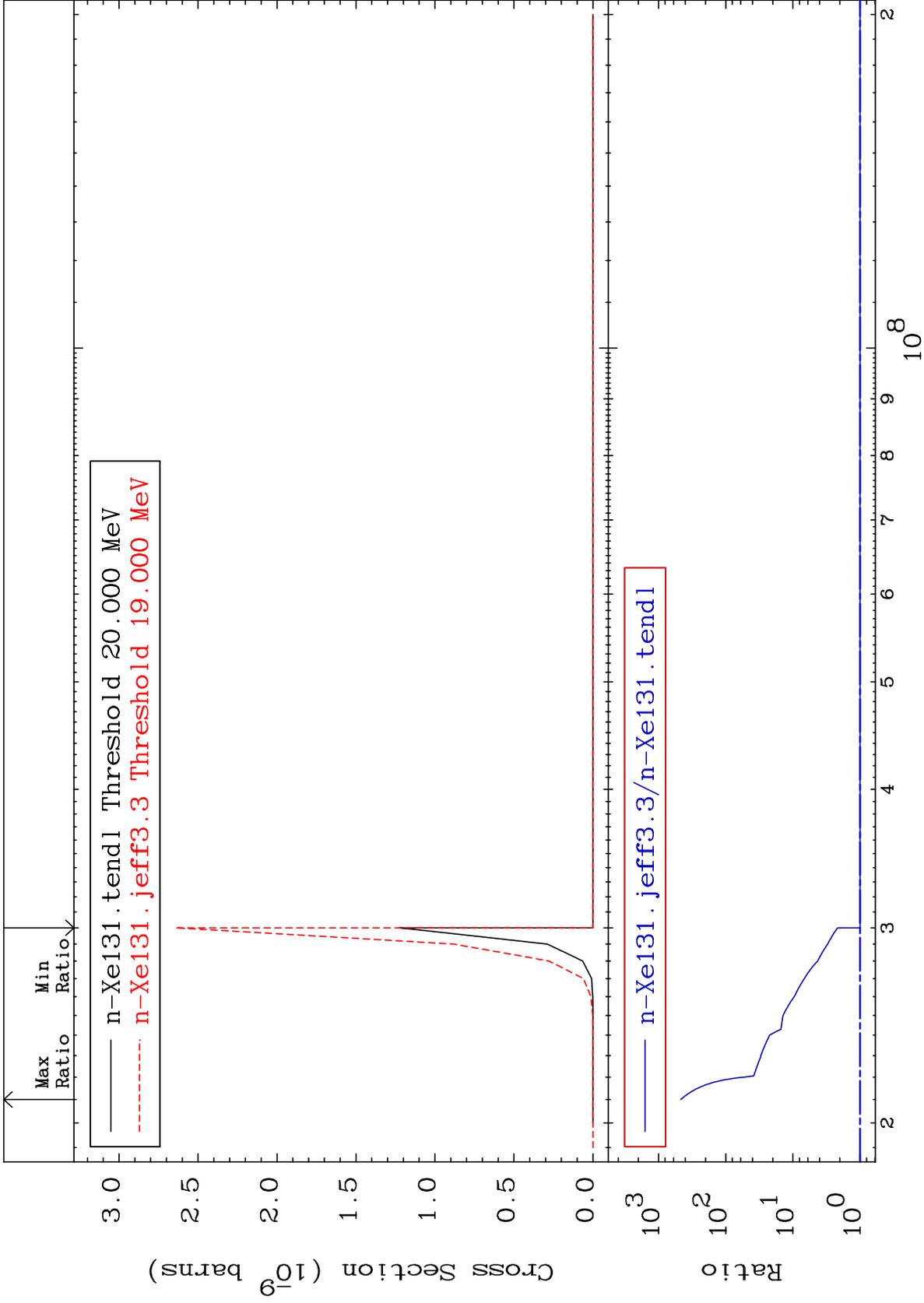
54-Xe-131

MAT 5446

(n, n') p α :51-Sb-126m2

54-Xe-131

Radionuclide Production Cross Section 0.000 To 9999. %

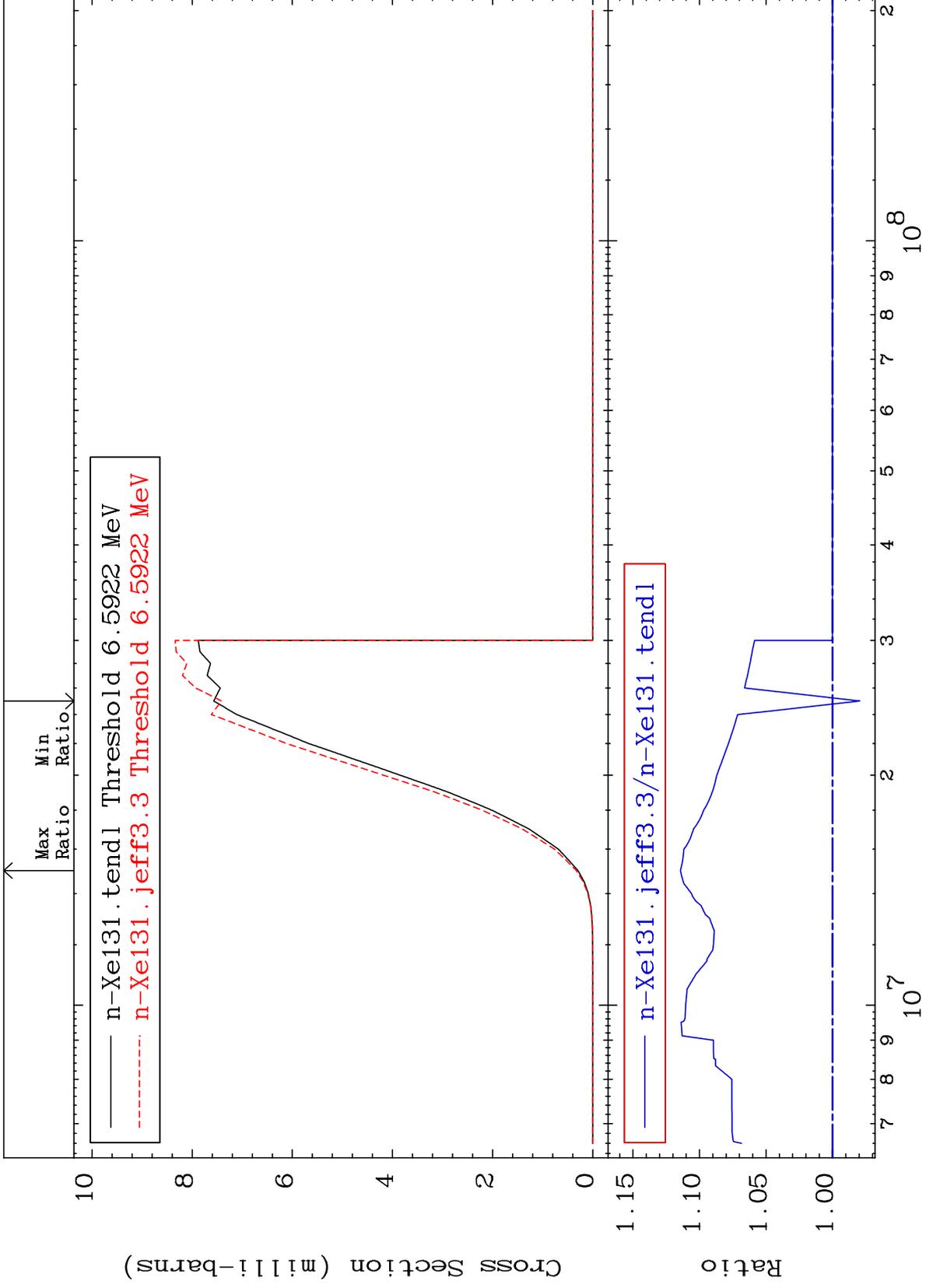


MAT 5446

(n, d) : 53-I -130g

54-Xe-131

Radionuclide Production Cross Section -2.048 To 11.43 %



92

Incident Energy (eV)

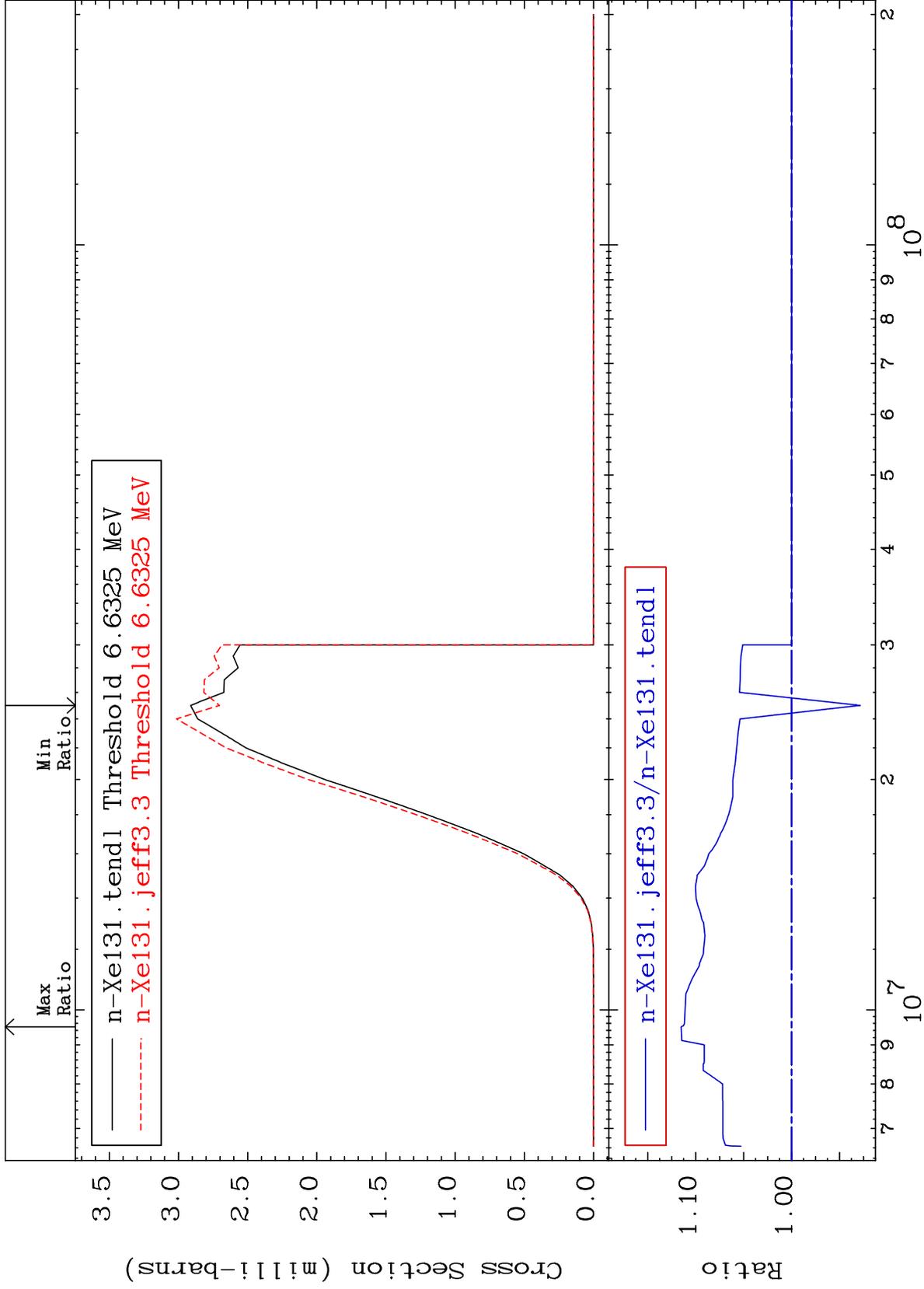
54-Xe-131

MAT 5446

(n, d):53-I -130m1

54-Xe-131

Radionuclide Production Cross Section -7.162 To 11.51 %



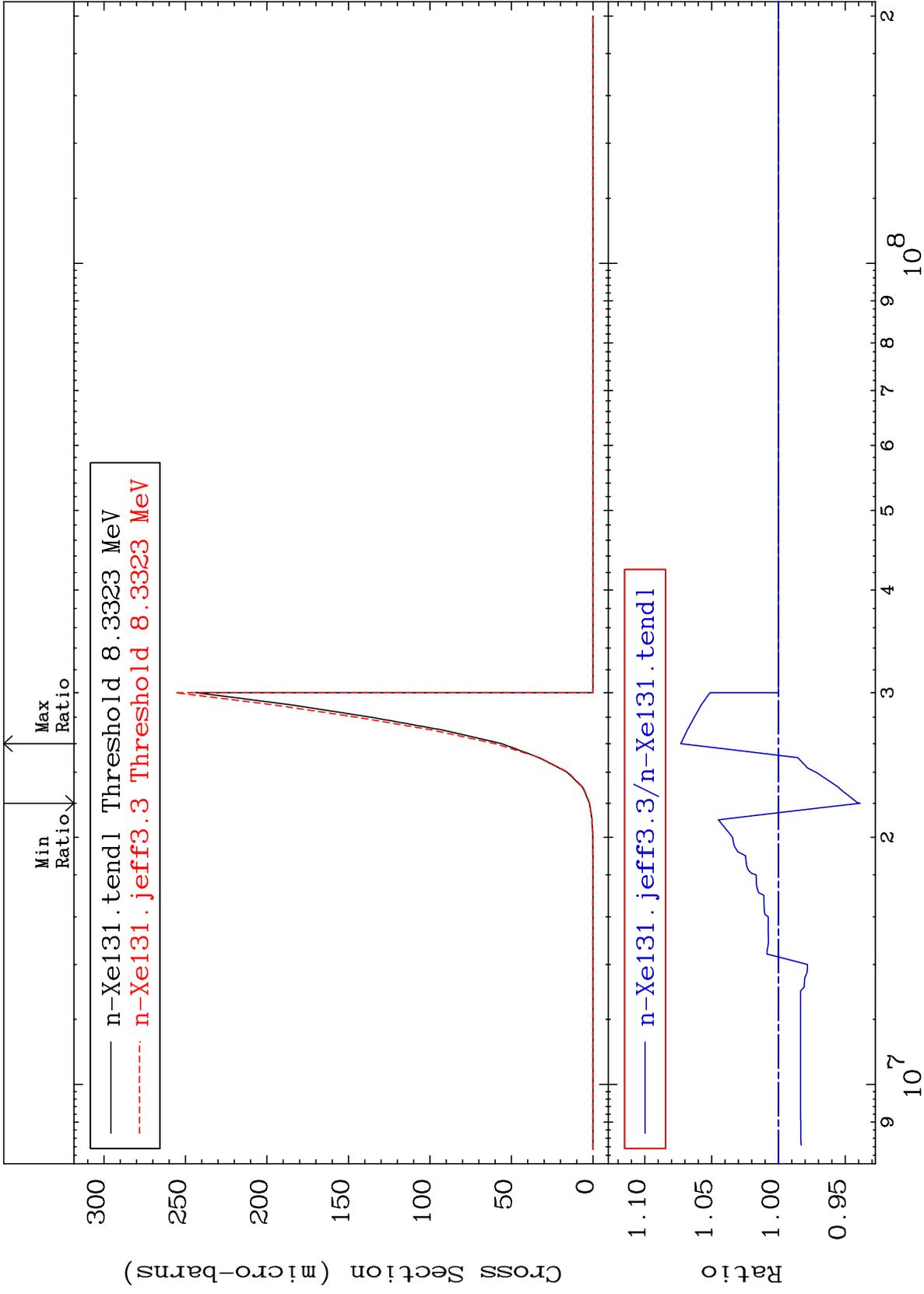
93

Incident Energy (eV)

54-Xe-131

MAT 5446

(n,He-3):52-Te-129g 54-Xe-131
Radionuclide Production Cross Section -6.104 To 7.310 %



94

Incident Energy (eV)

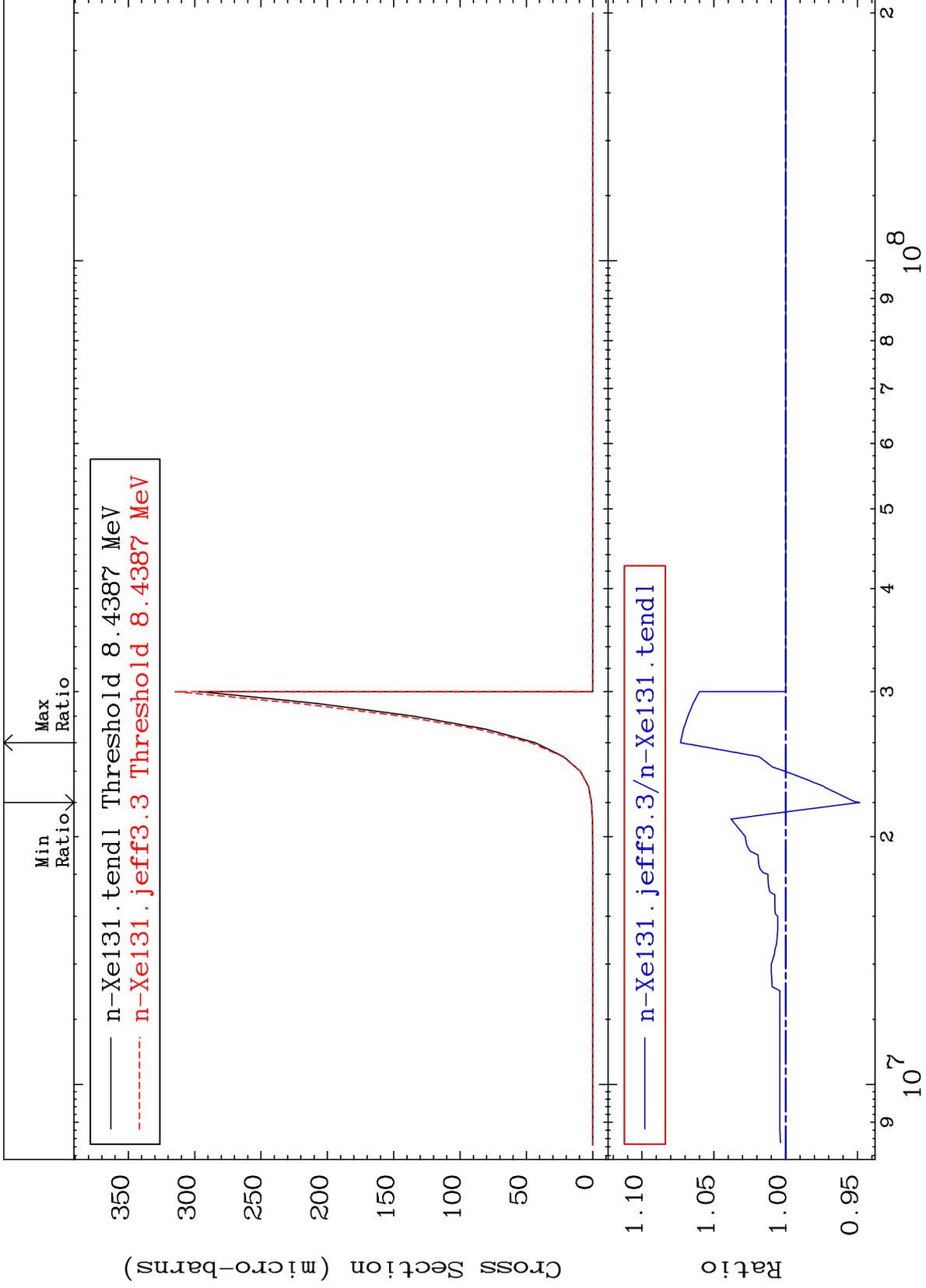
54-Xe-131

MAT 5446

(n,He-3):52-Te-129m1

54-Xe-131

Radionuclide Production Cross Section -5.158 To 7.316 %



95

Incident Energy (eV)

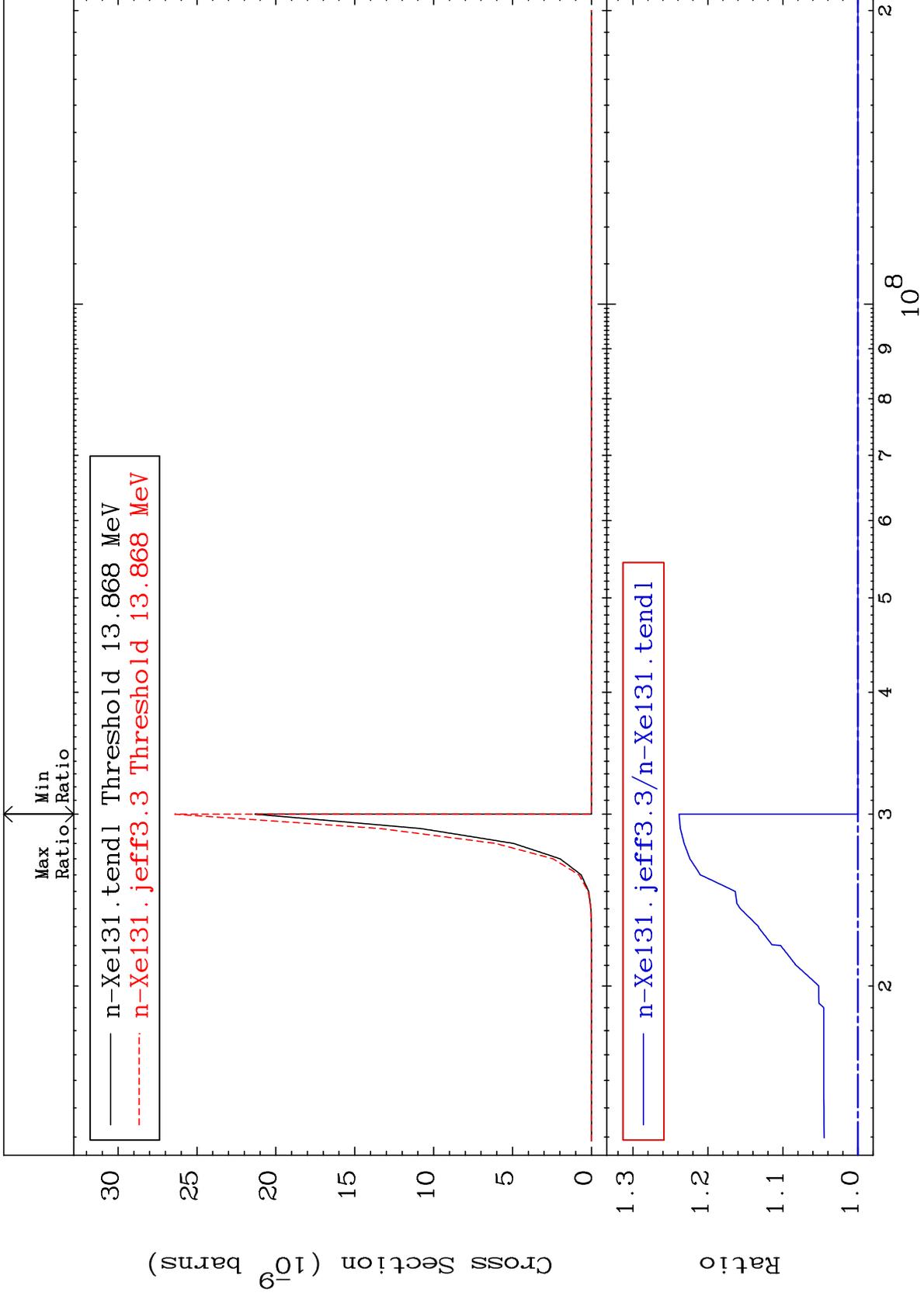
54-Xe-131

MAT 5446

(n, p) d:52-Te-129g

54-Xe-131

Radionuclide Production Cross Section 0.000 To 23.86 %



MAT 5446

(n, p) d:52-Te-129m1

54-Xe-131

Radionuclide Production Cross Section 0.000 To 24.74 %

