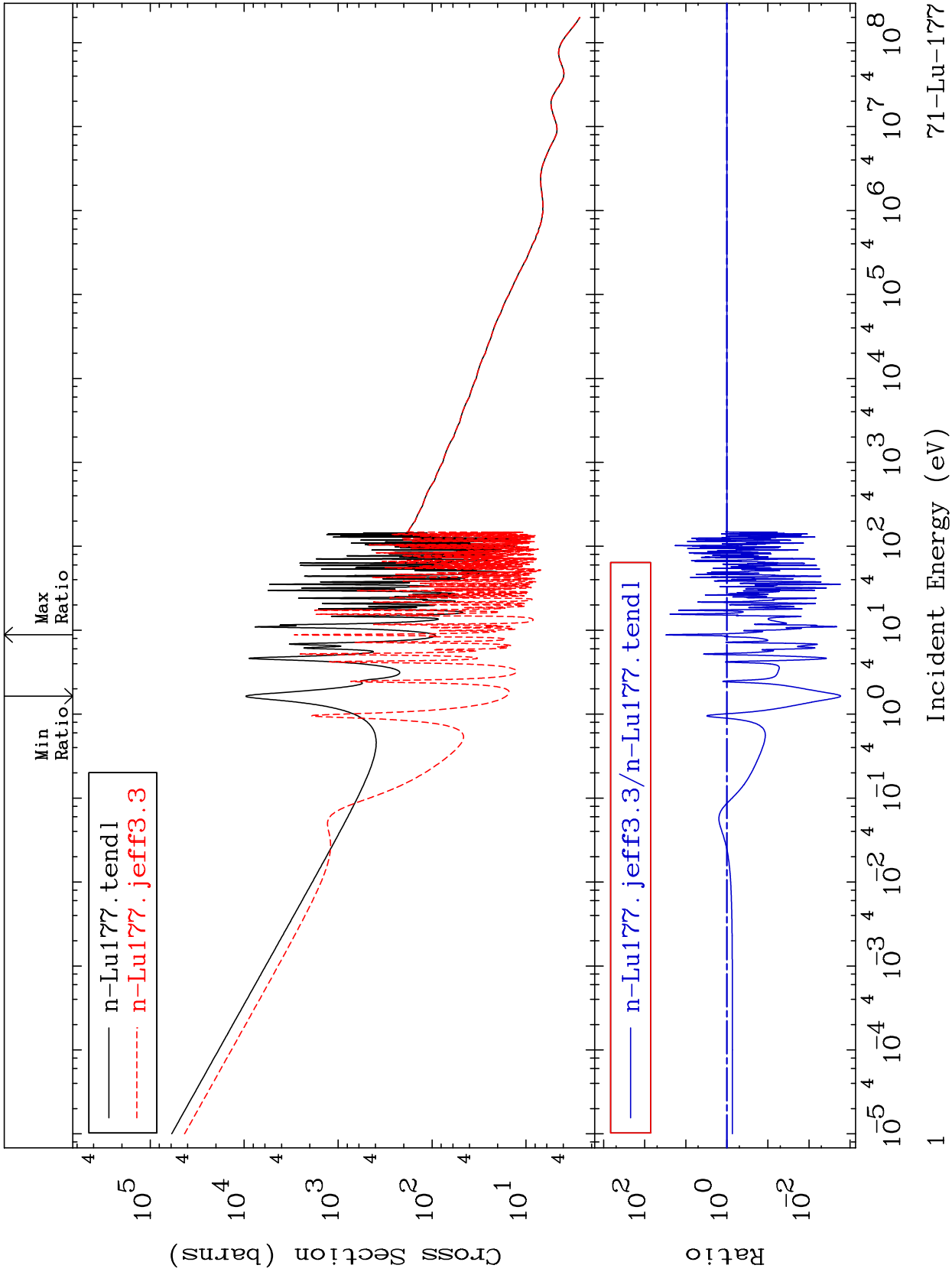


MAT 7131

Total
Cross Section

71-Lu-177
-99.83 To 3015. %



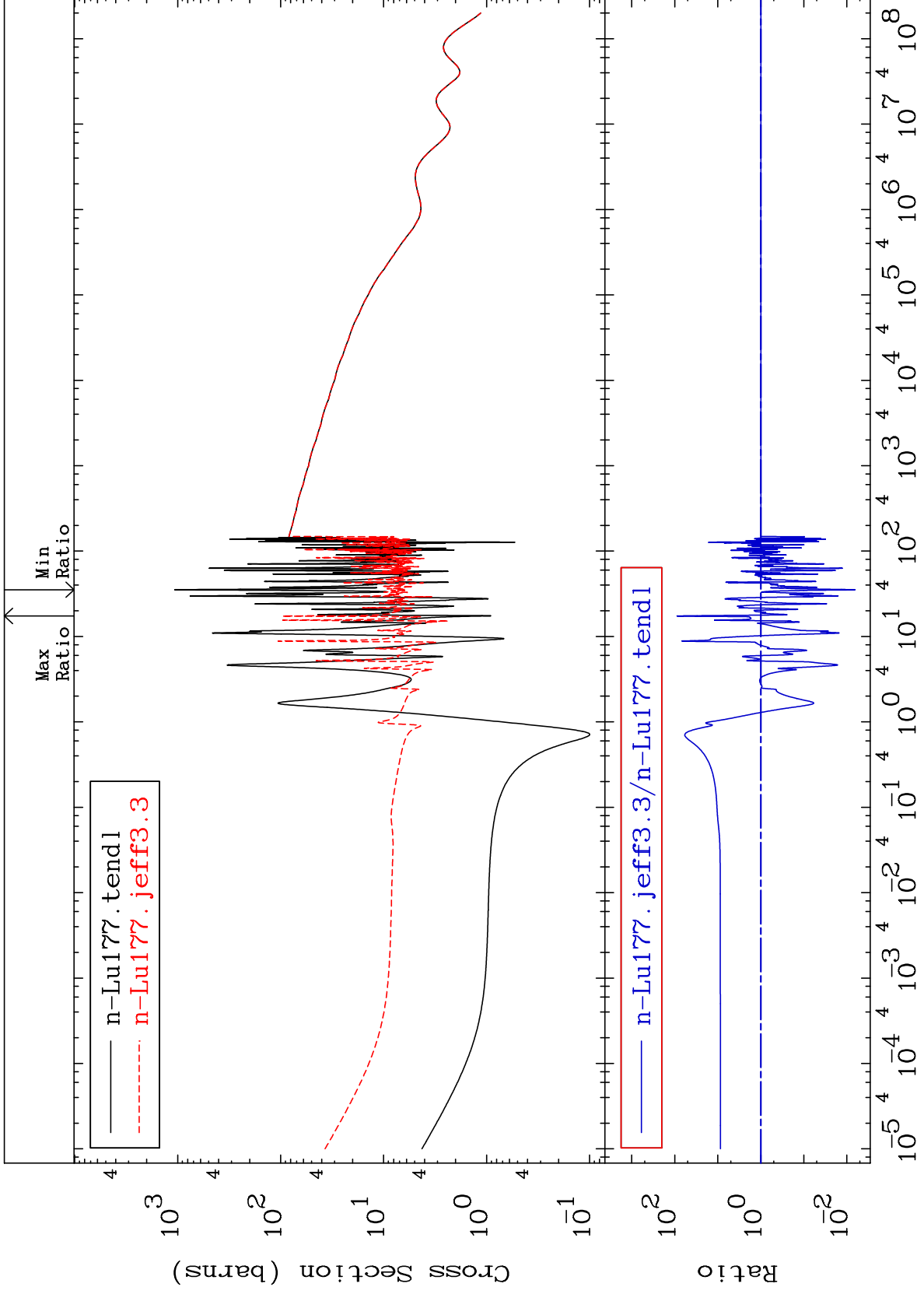
MAT 7131

Elastic

71-Lu-177

Cross Section

-99.36 To 8813. %



2

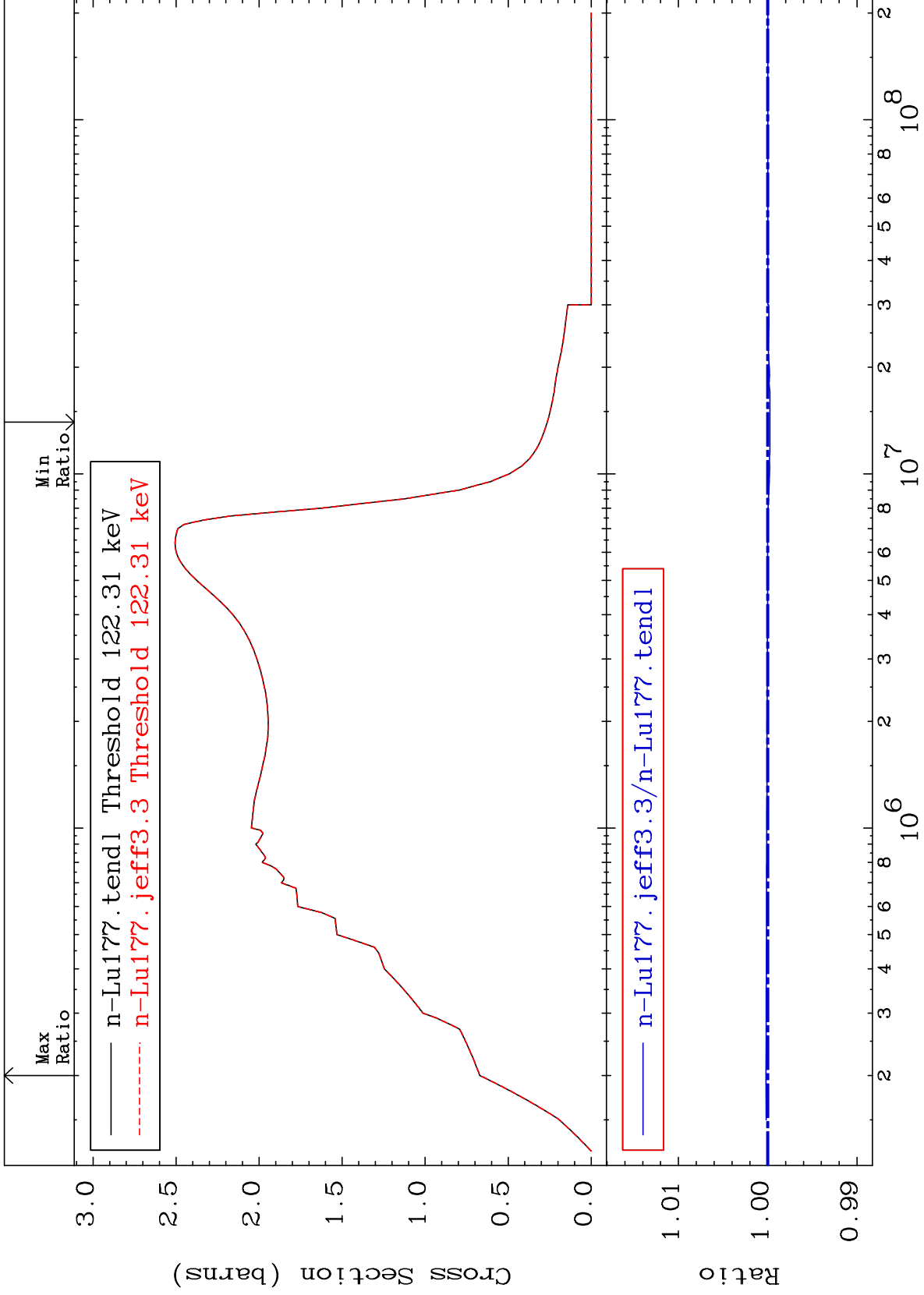
Incident Energy (eV)

71-Lu-177

MAT 7131

Inelastic
Cross Section

71-Lu-177
-0.024 To 0.020 %



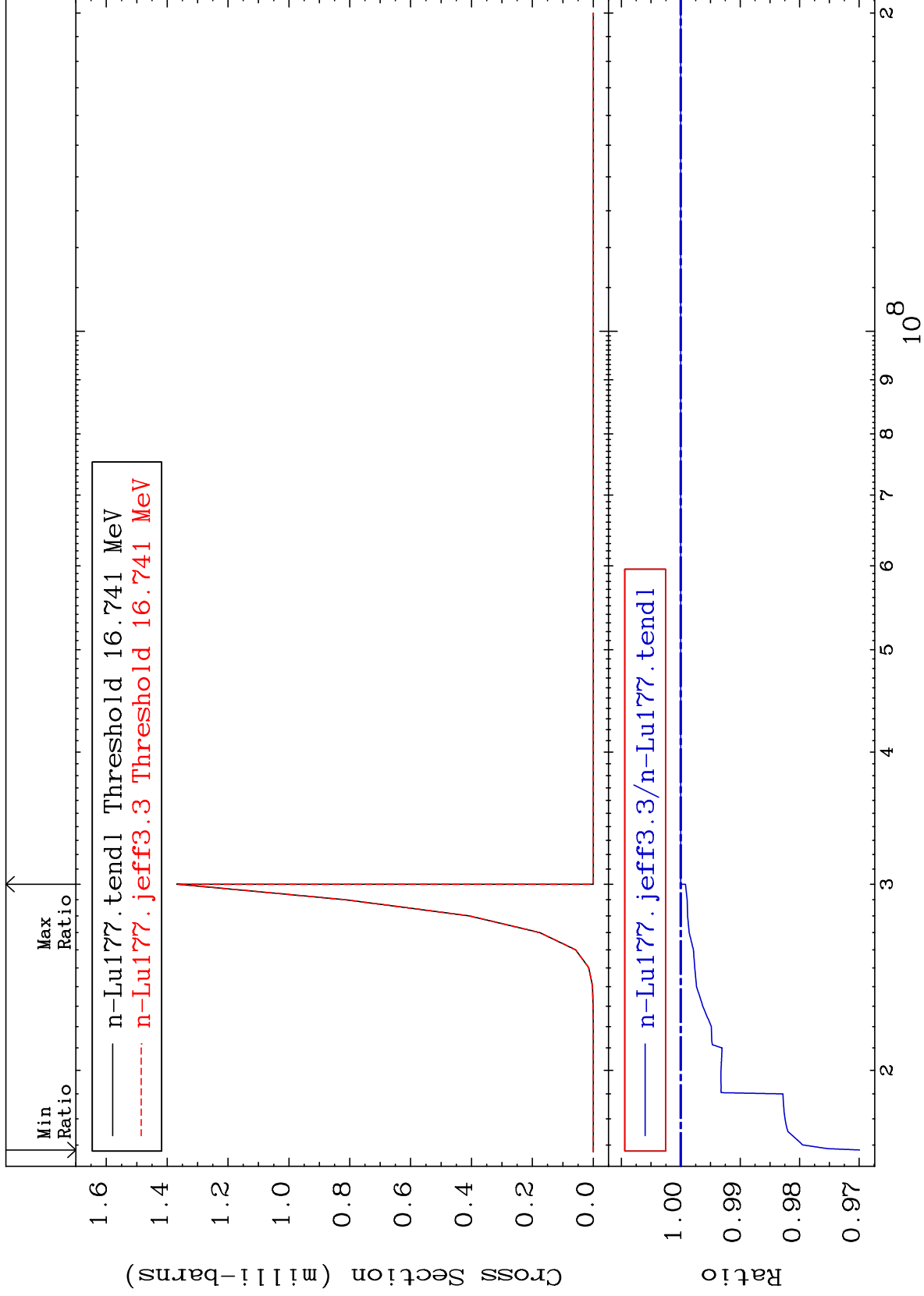
MAT 7131

(n,2n) d

⁷¹-Lu-177

Cross Section

-3.007 To 0.000 %



Incident Energy (eV)

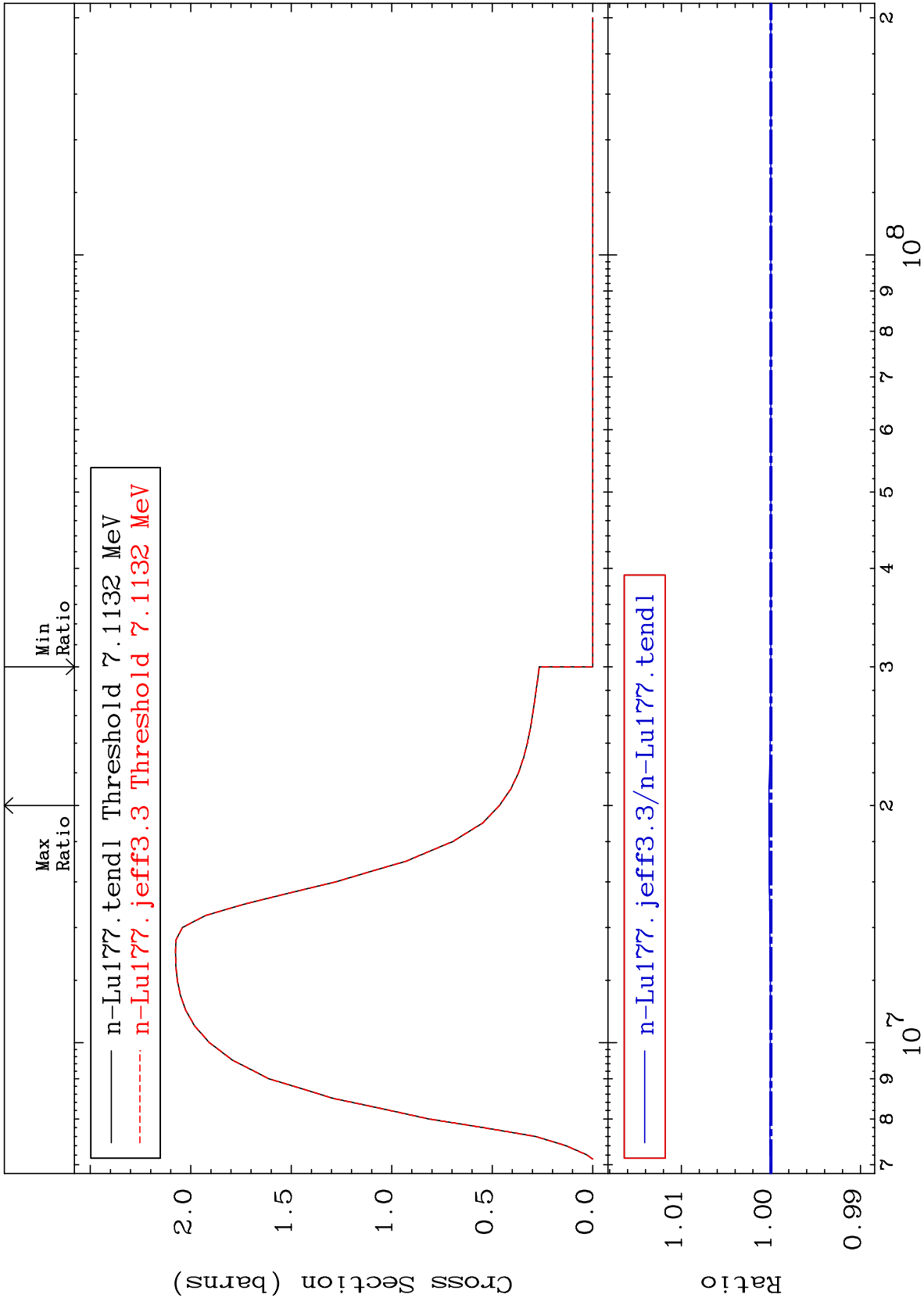
⁷¹-Lu-177

MAT 7131

(n,2n)

71-Lu-177
0.000 To 0.022 %

Cross Section



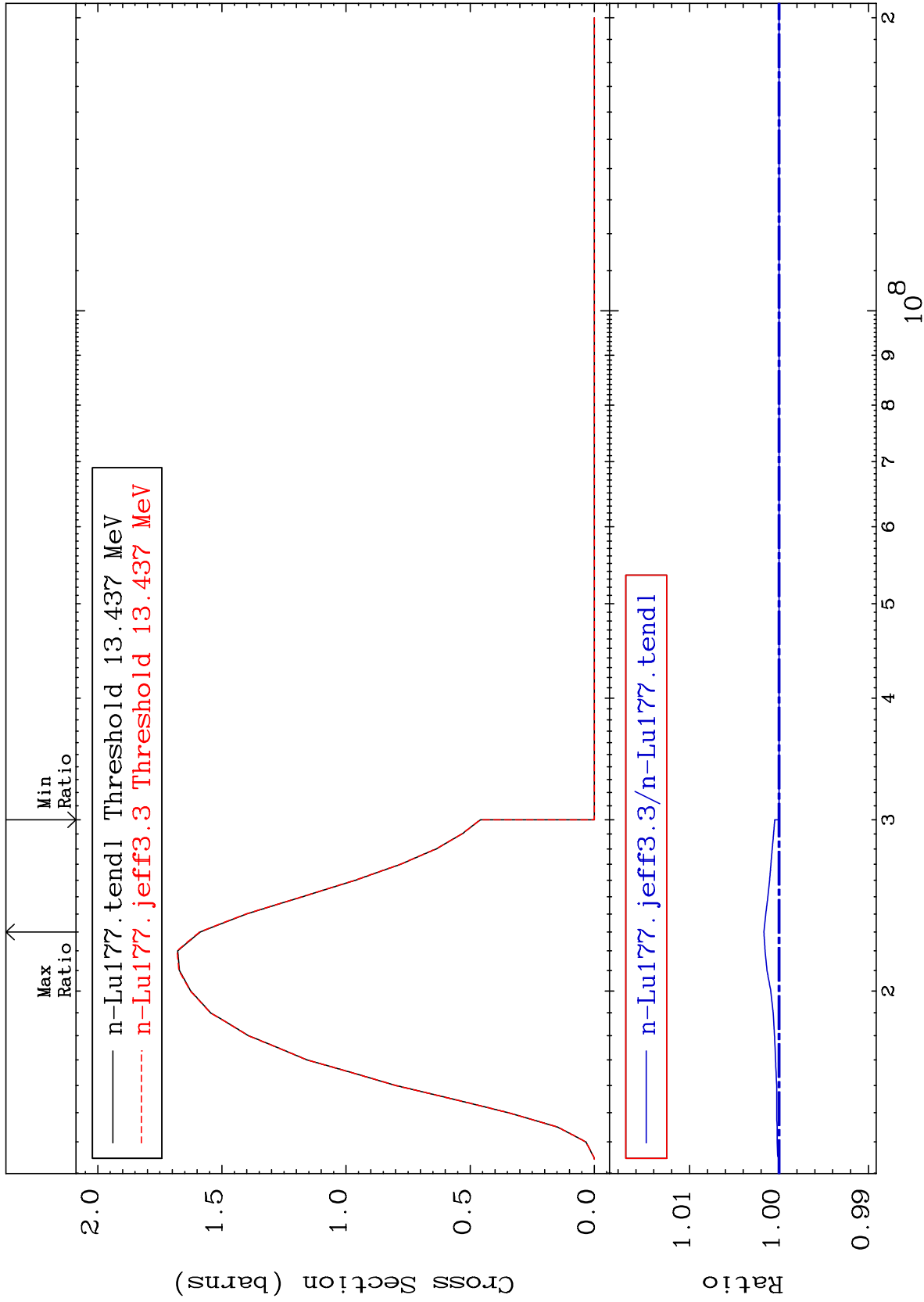
5

Incident Energy (eV)

71-Lu-177

MAT 7131

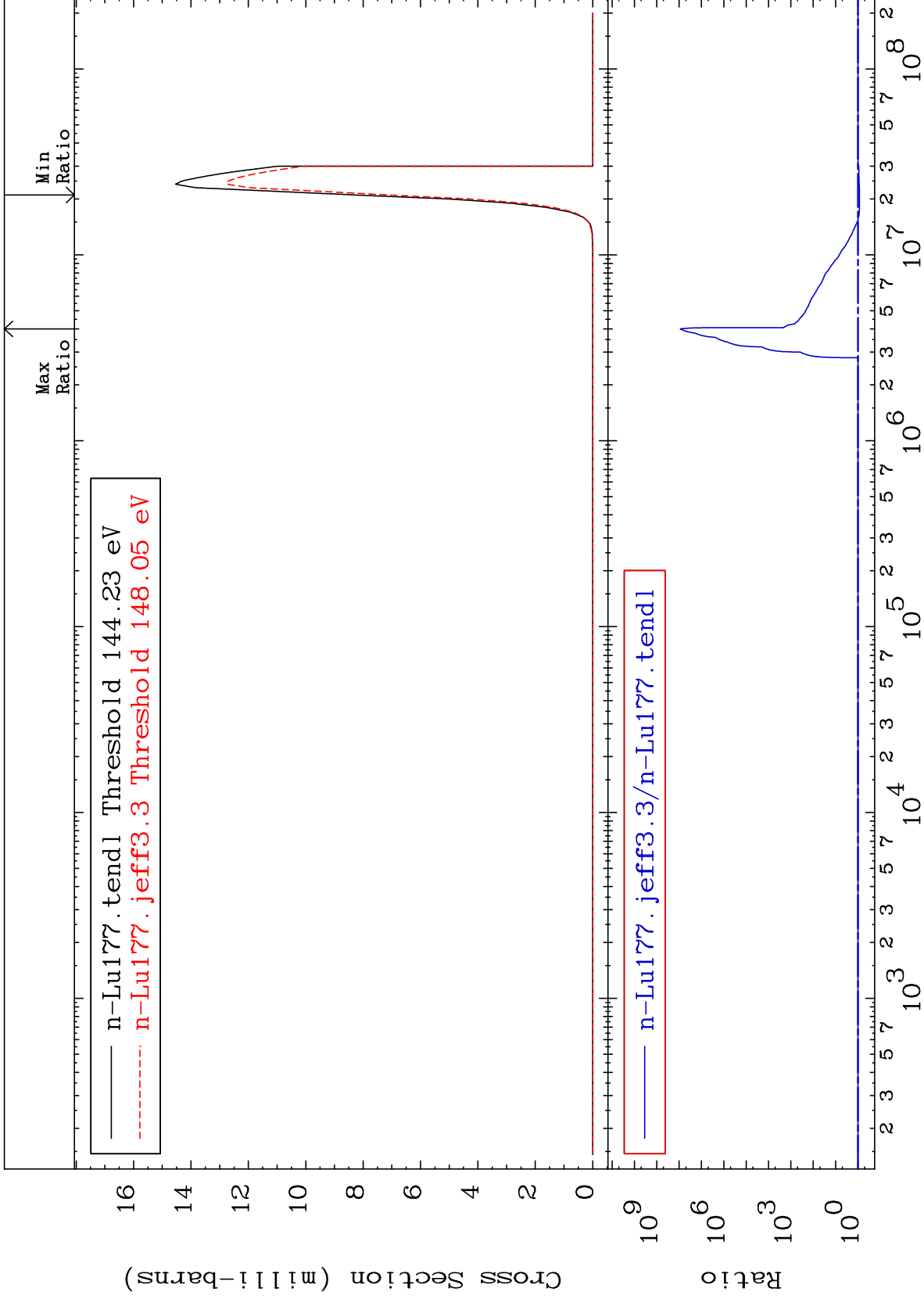
(n,3n) Cross Section
71-Lu-177
0.000 To 0.169 %



MAT 7131

(n, n') α
Cross Section

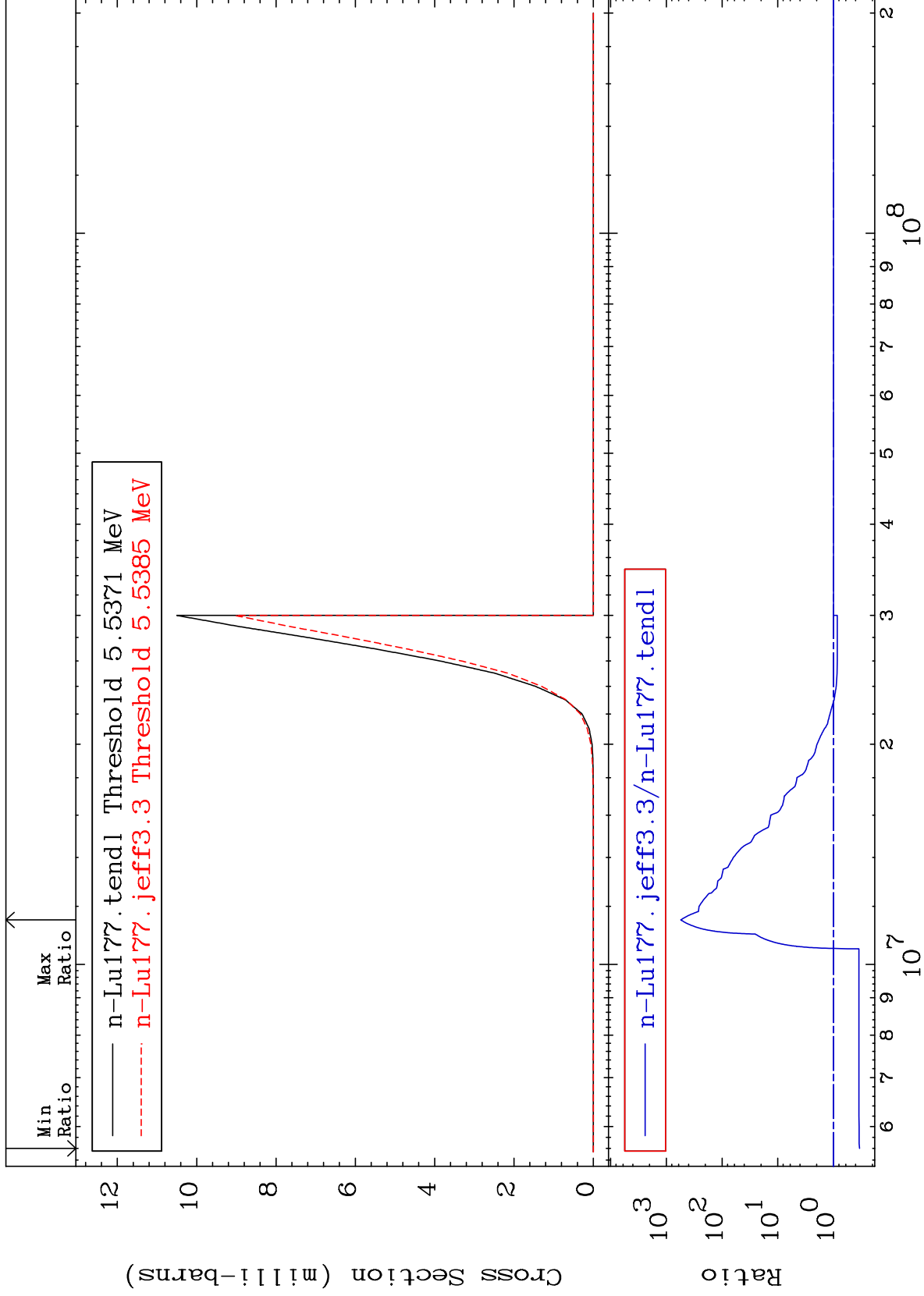
71-Lu-177
-14.48 To 9999. %



MAT 7131

(n,2n) α
Cross Section

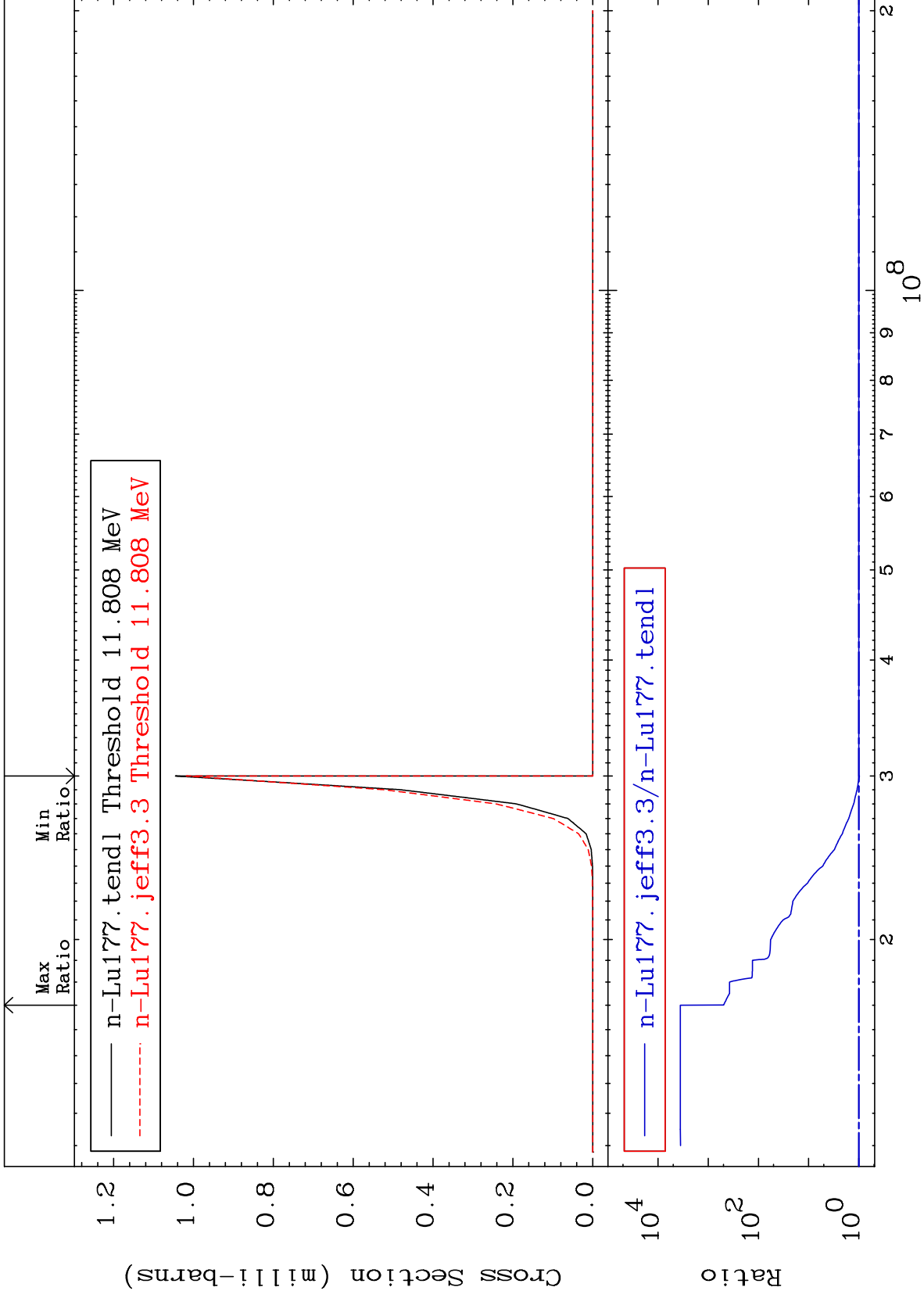
⁷¹Lu-177
-65.89 To 9999. %



MAT 7131

(n,3n) α
Cross Section

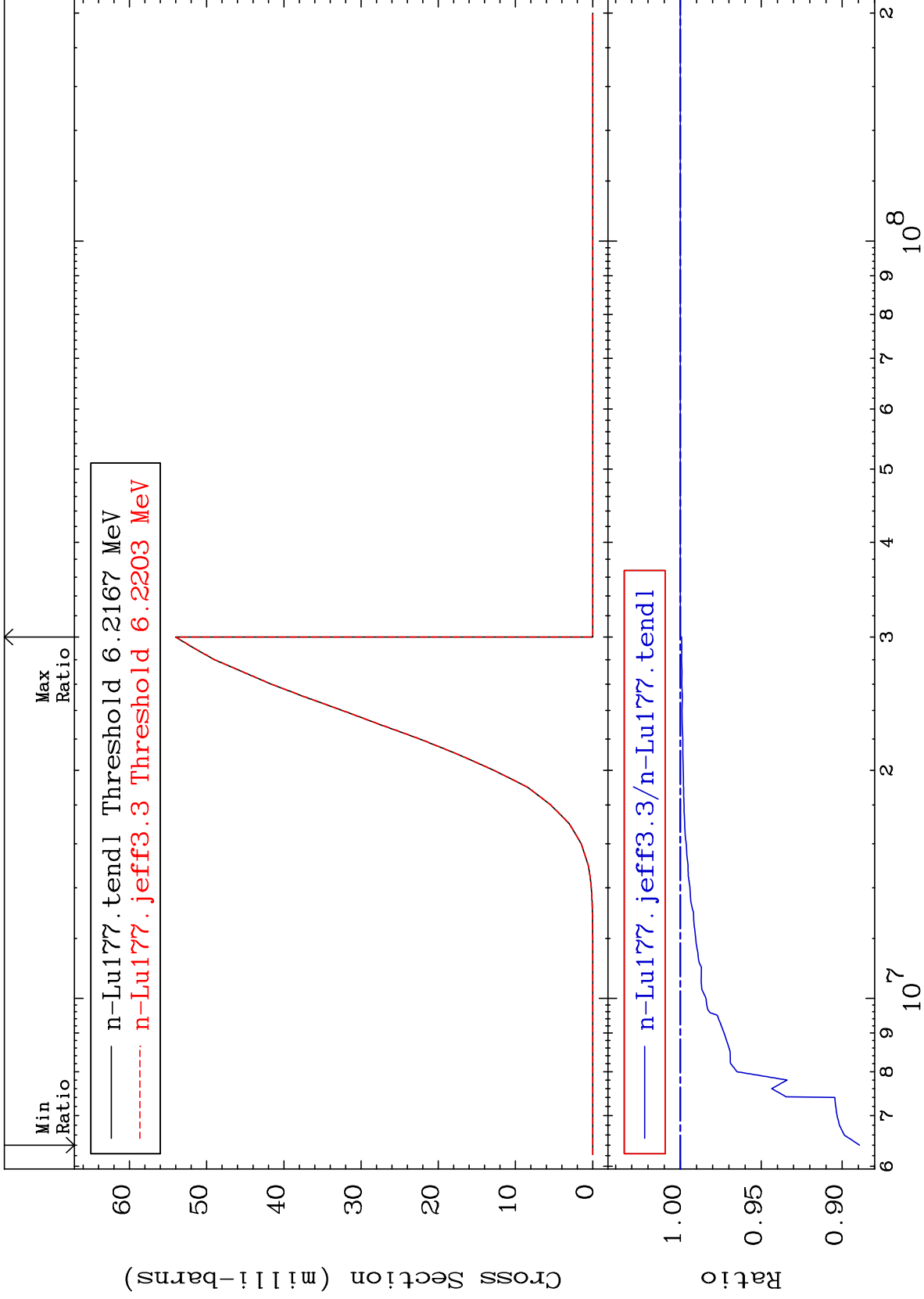
⁷¹Lu-177
-2.633 To 9999. %



MAT 7131

(n,n') p
Cross Section

71-Lu-177
-11.07 To 0.000 %



10

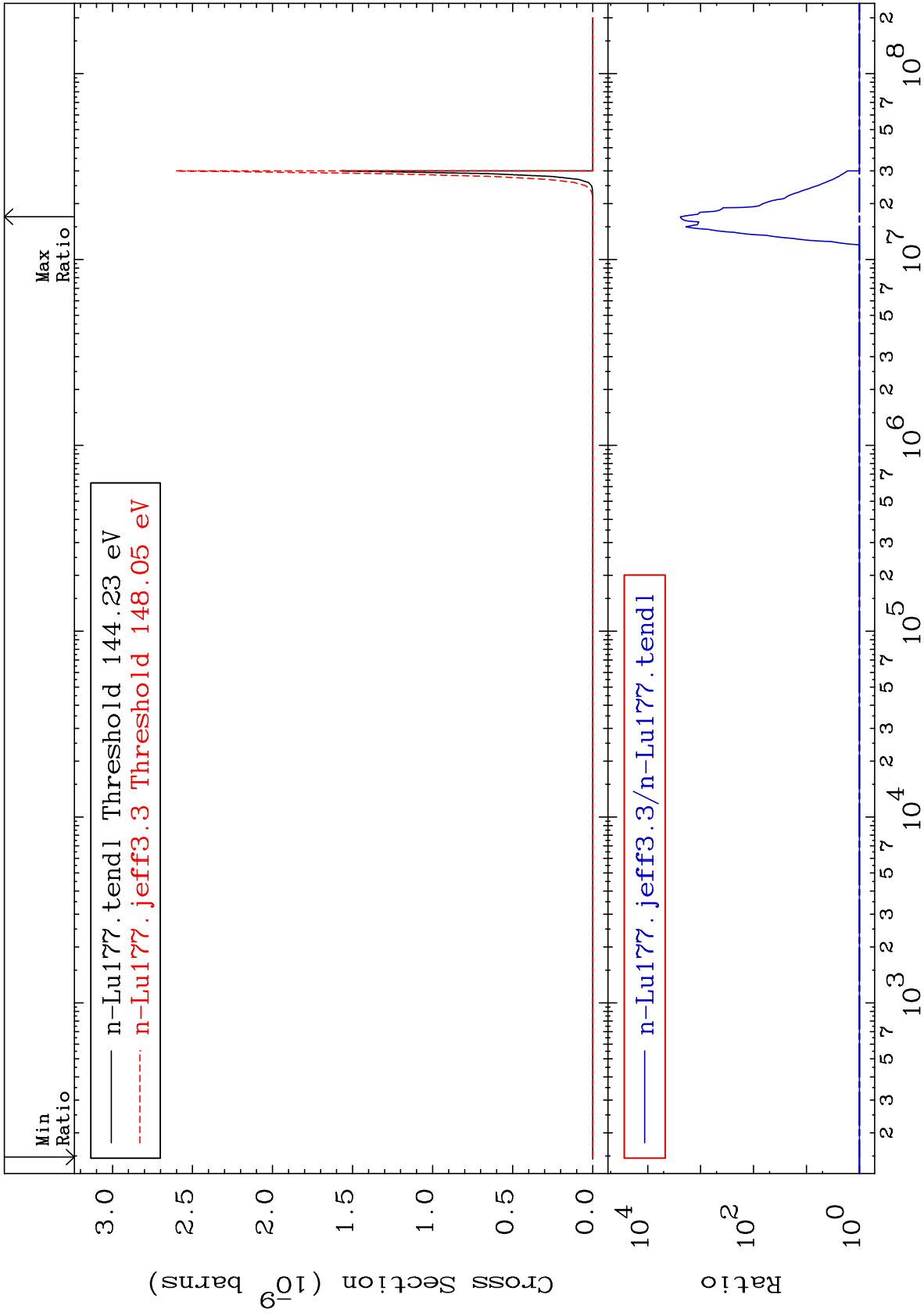
Incident Energy (eV)

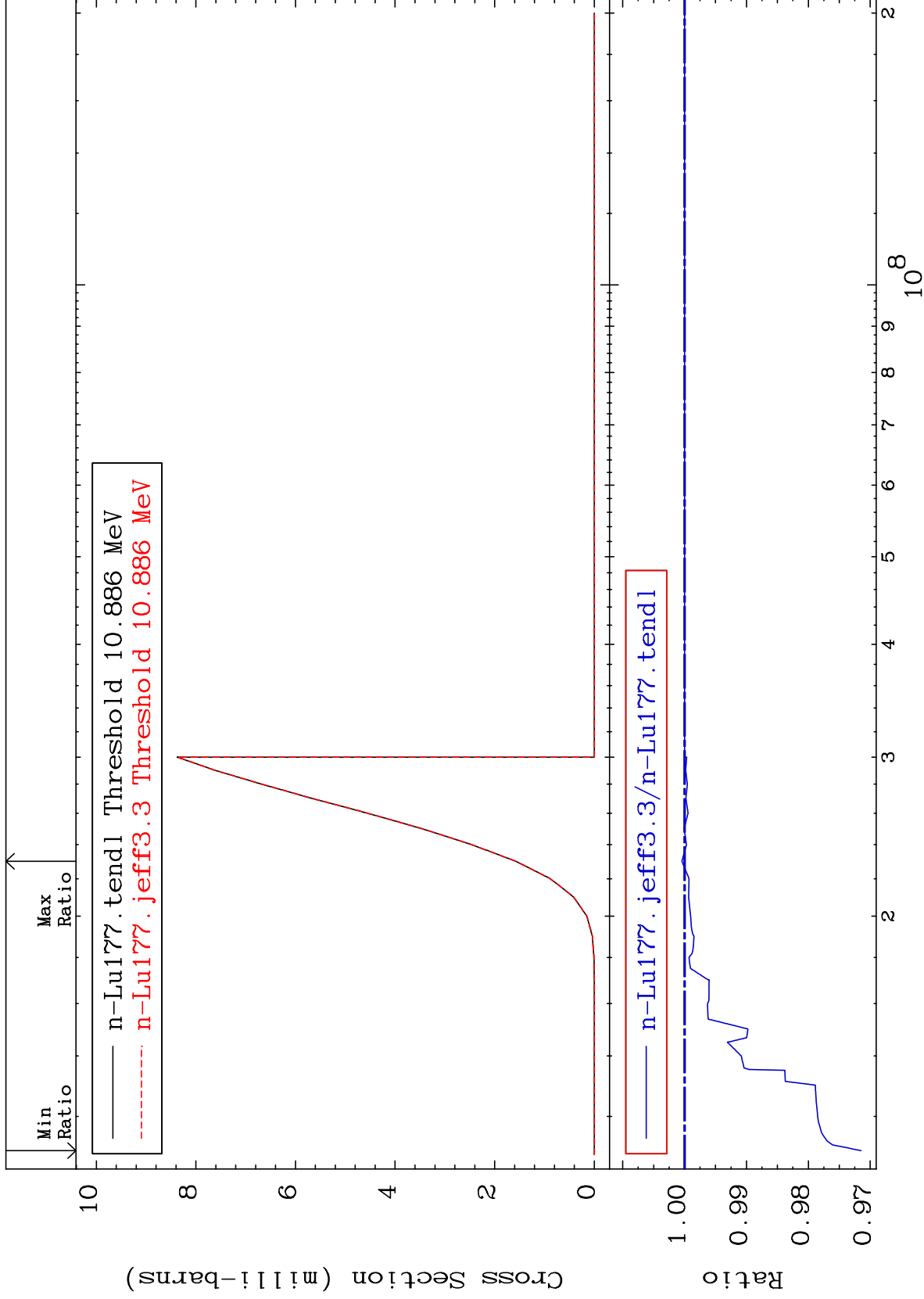
71-Lu-177

MAT 7131

(n, n') 2α
Cross Section

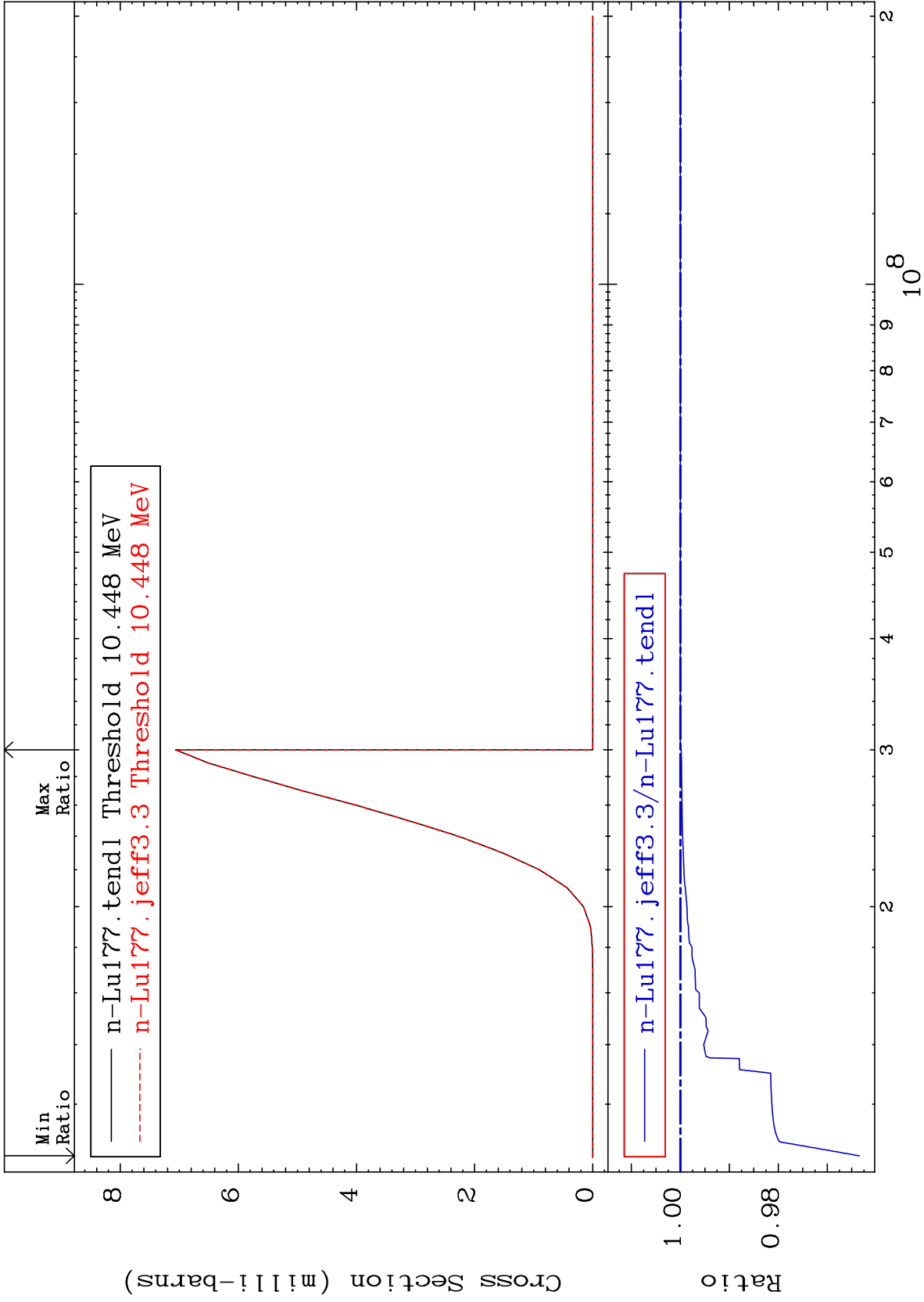
71-Lu-177
To 9999. %





Cross Section

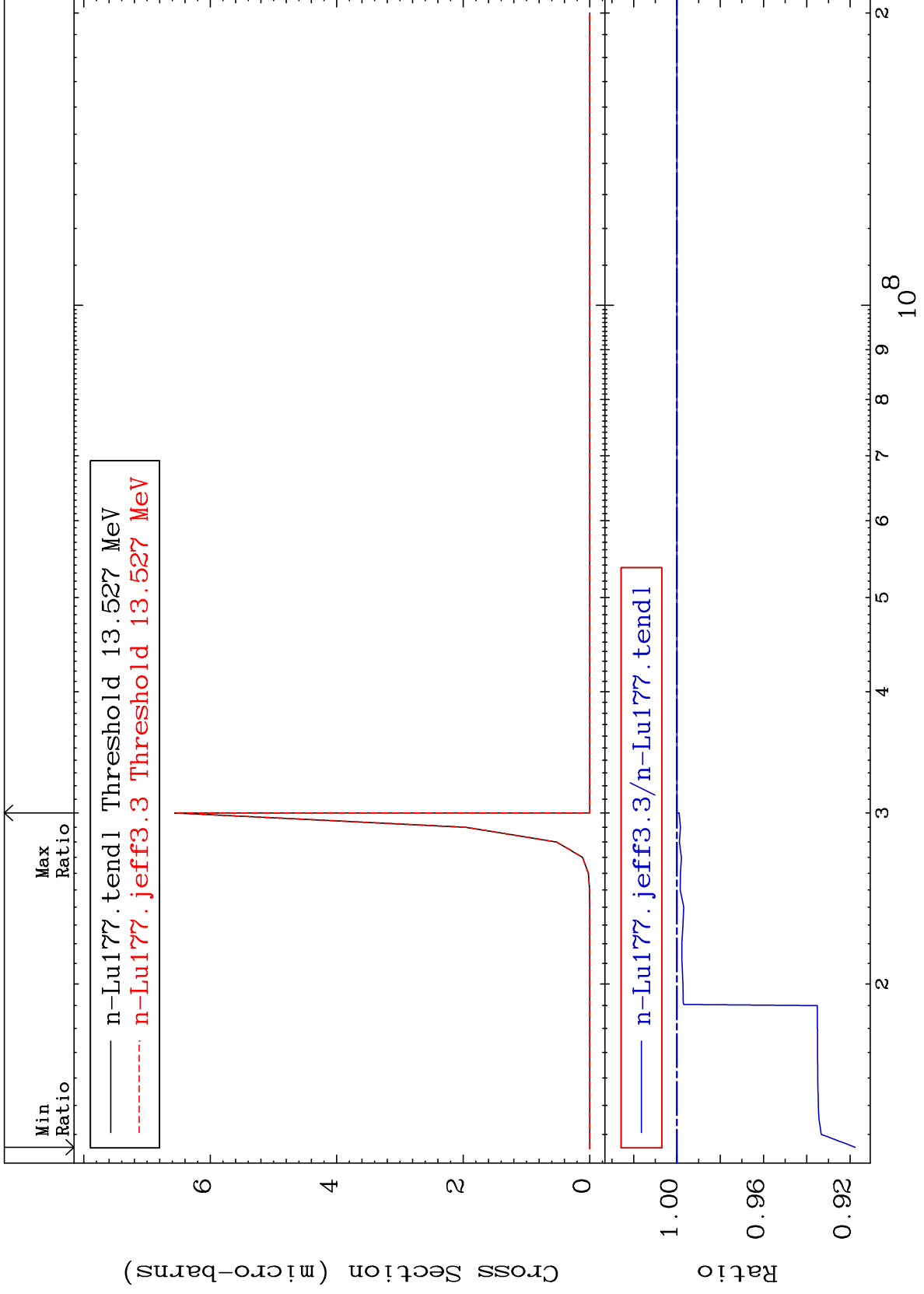
-3.658 To 0.000 %



MAT 7131

(n, n') He-3
Cross Section

71-Lu-177
-8.230 To 0.000 %



MAT 7131

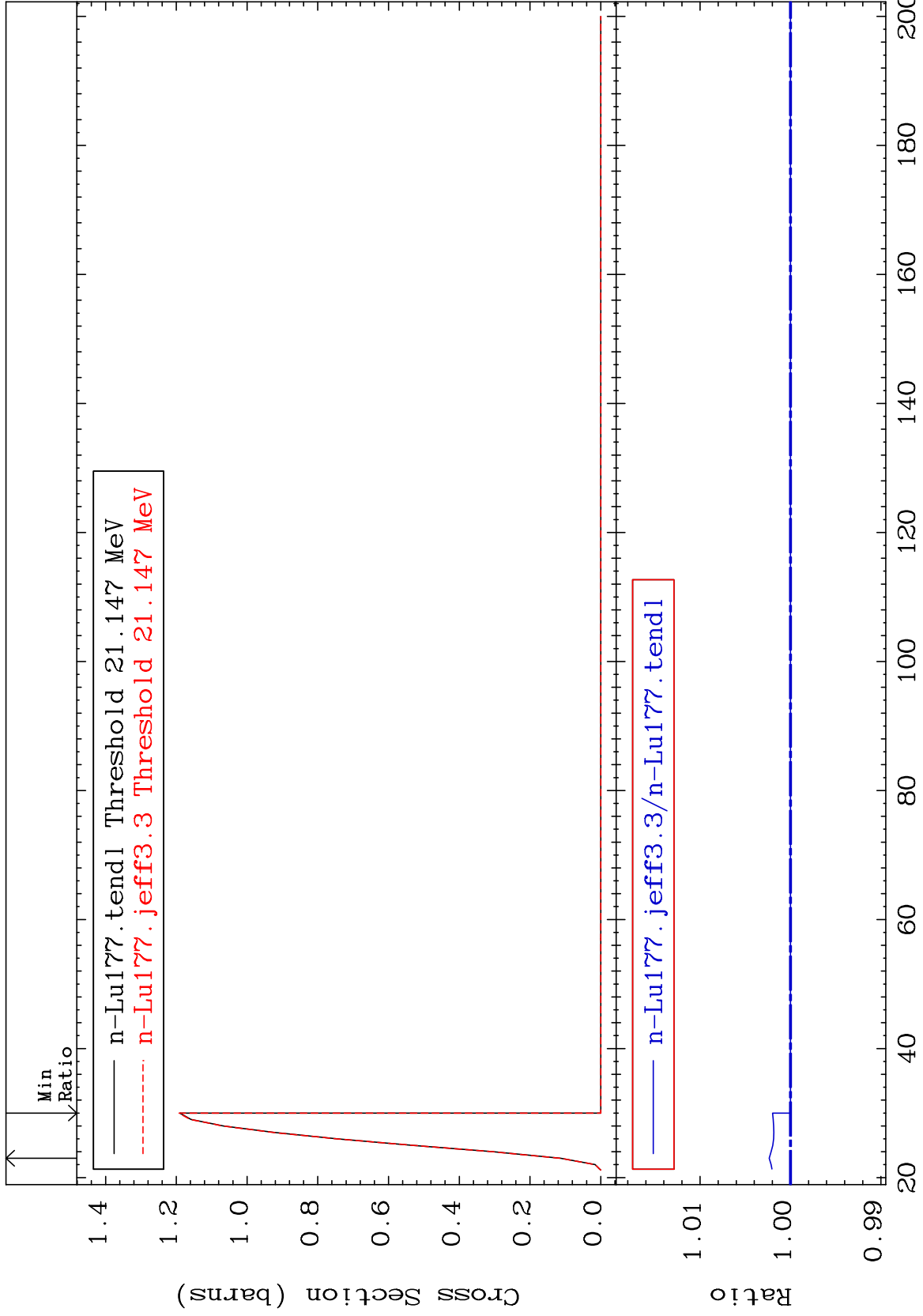
(n,4n)

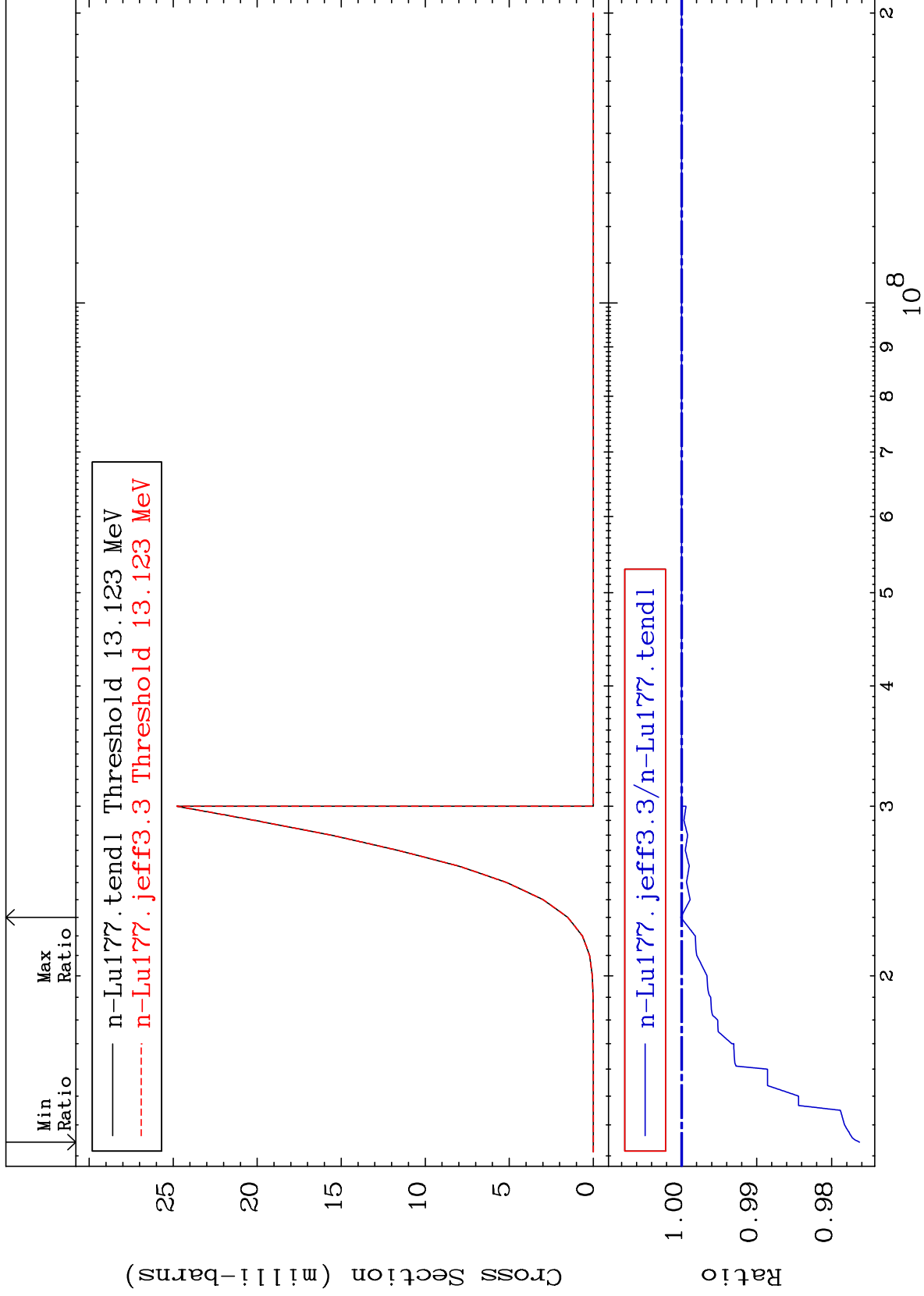
⁷¹Lu-177

Cross Section

0.000

To 0.235 %

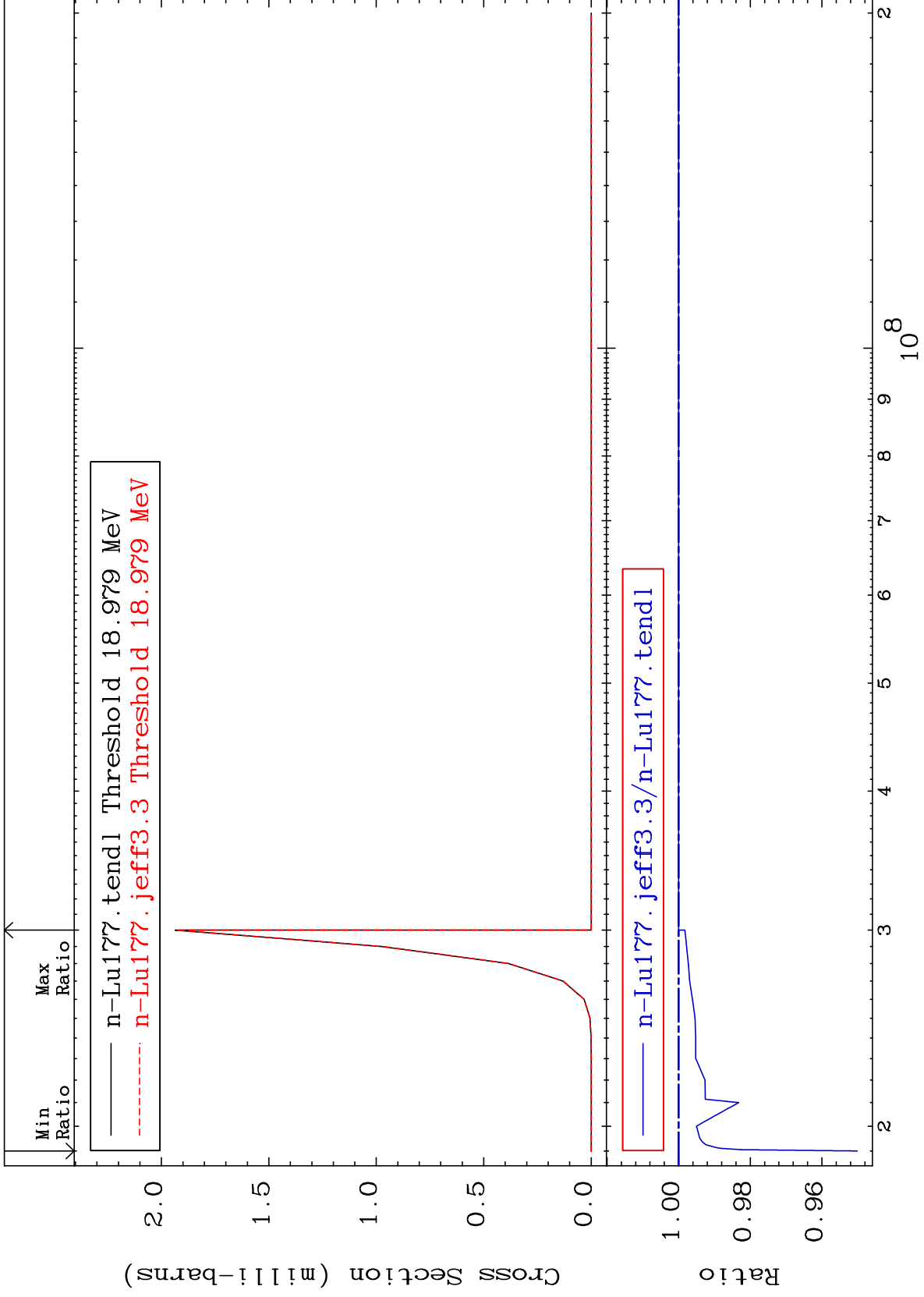




MAT 7131

(n,3n) p
Cross Section

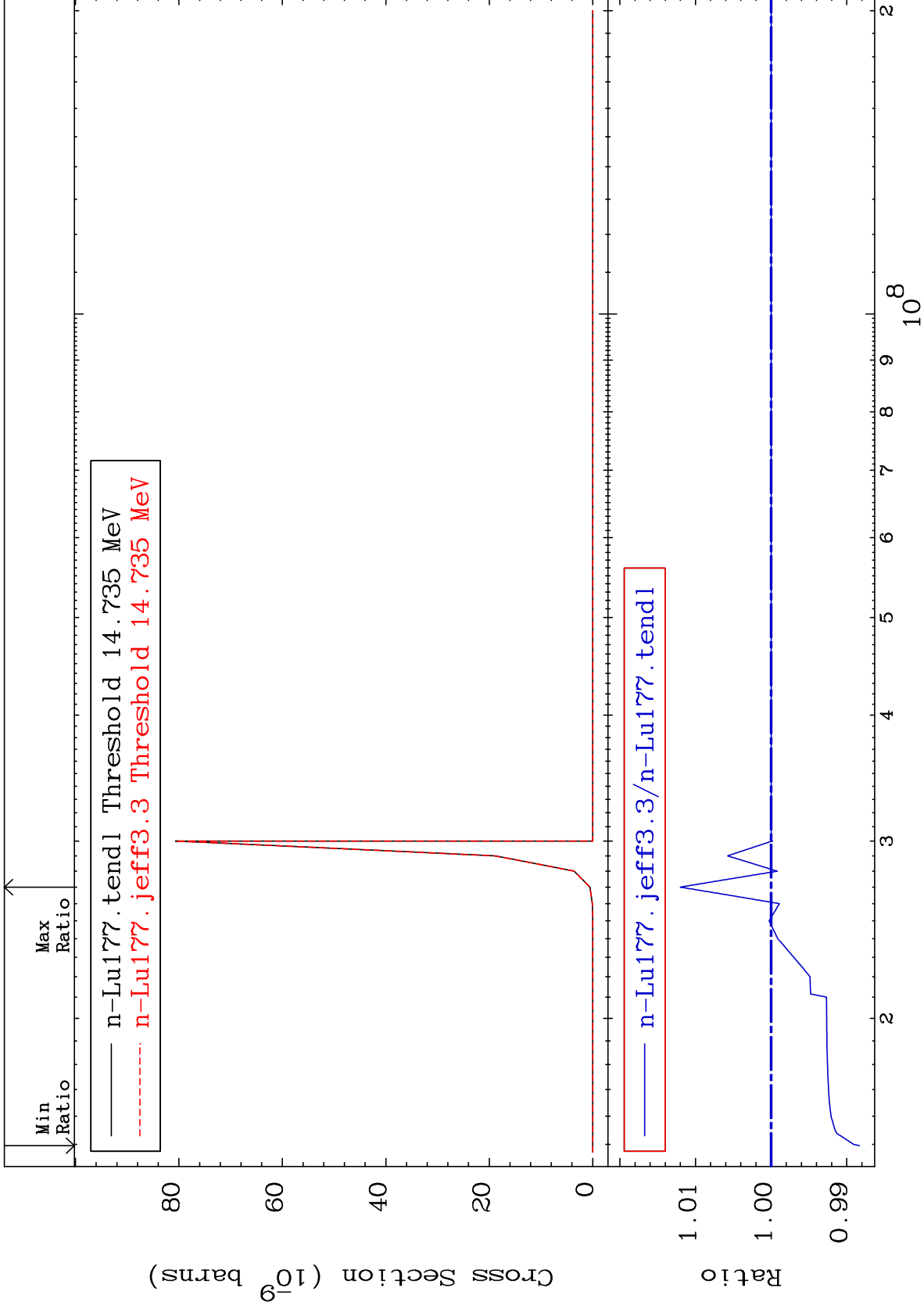
⁷¹-Lu-177
-4.987 To 0.000 %



MAT 7131

(n,2n) p
Cross Section

⁷¹Lu-177
-1.167 To 1.200 %



18

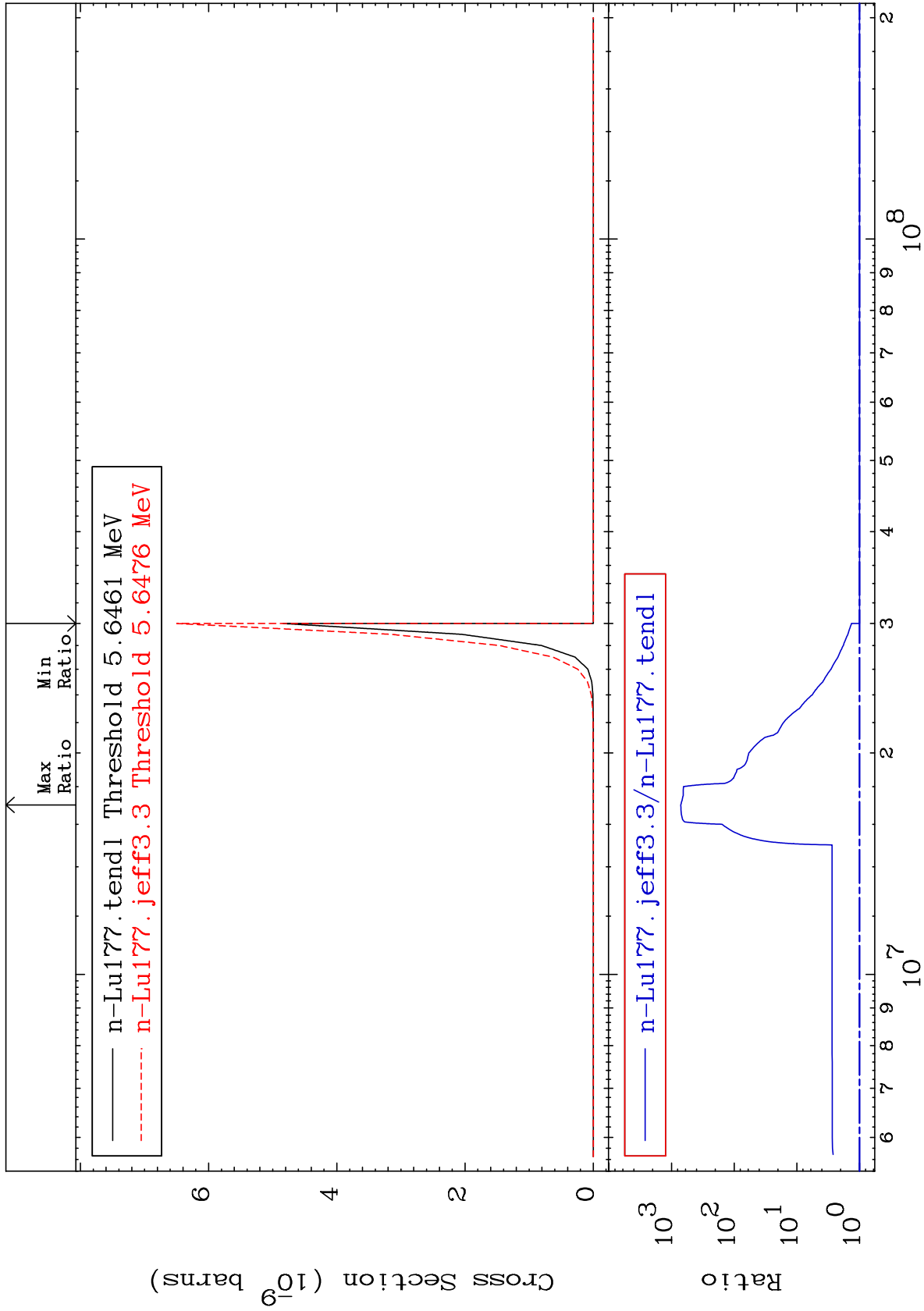
Incident Energy (eV)

⁷¹Lu-177

MAT 7131

(n,n') p α
Cross Section

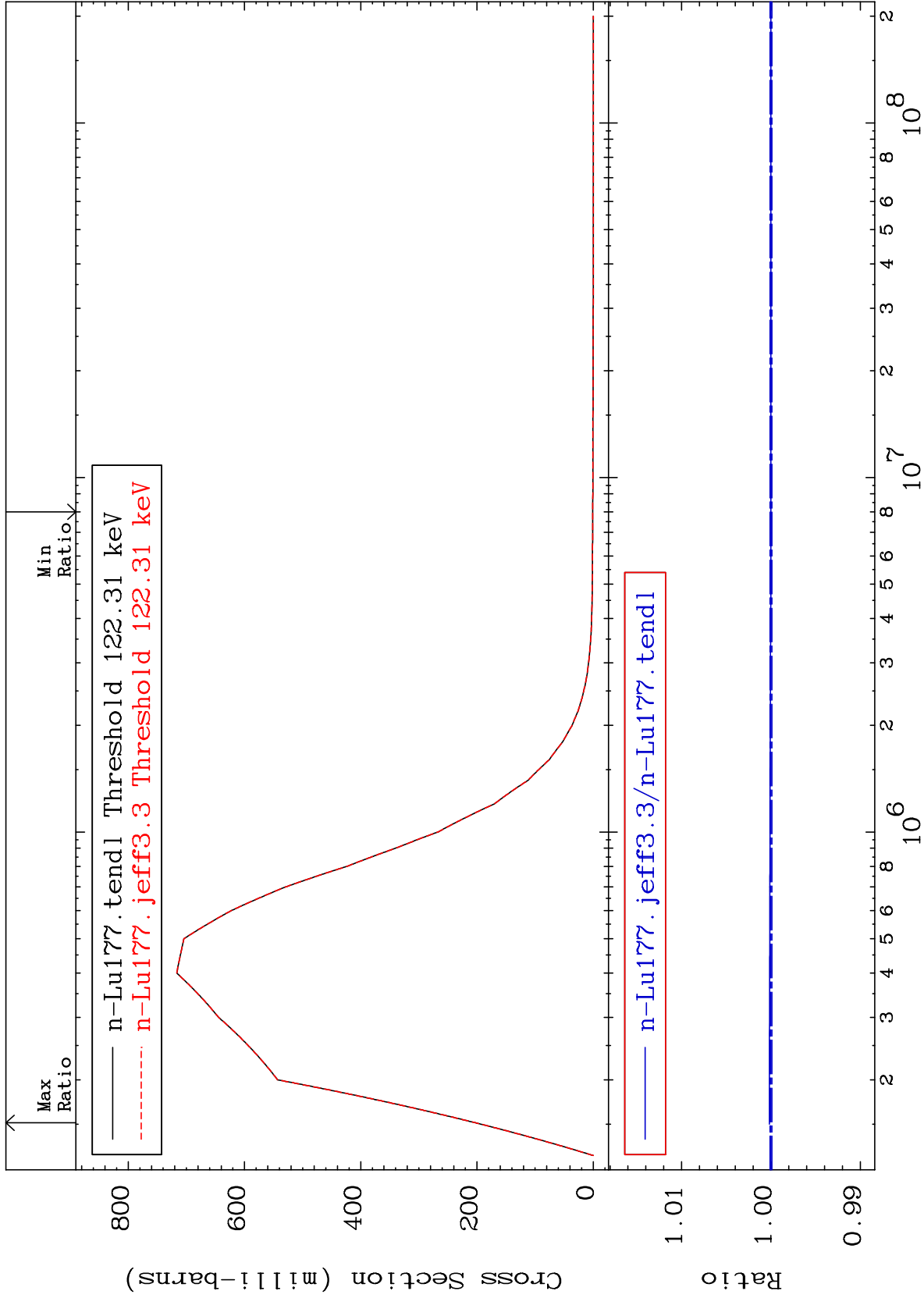
⁷¹-Lu-177
To 9999. %
0.000



MAT 7131

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

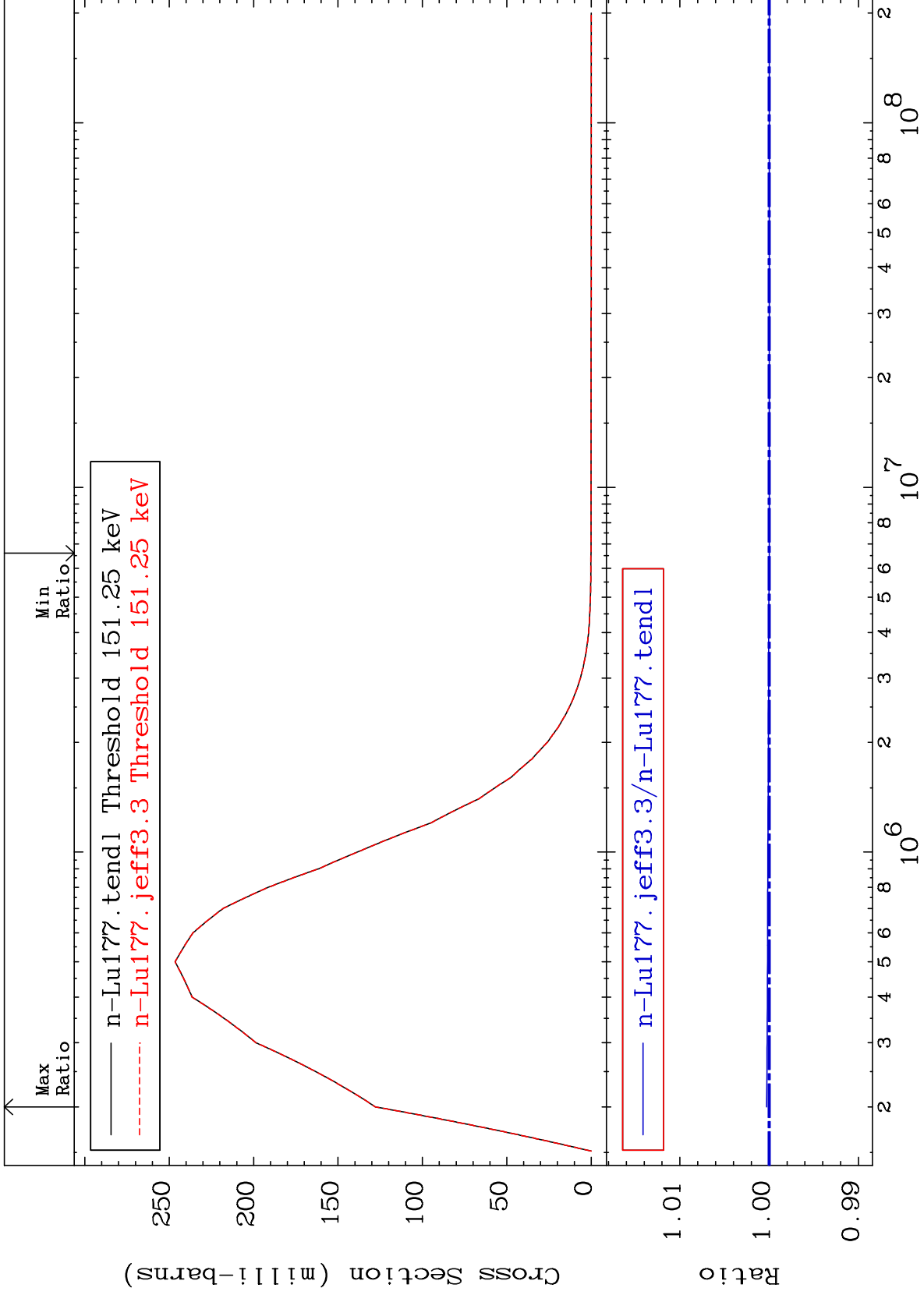
71-Lu-177
0.000 To 0.018 %



MAT 7131

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

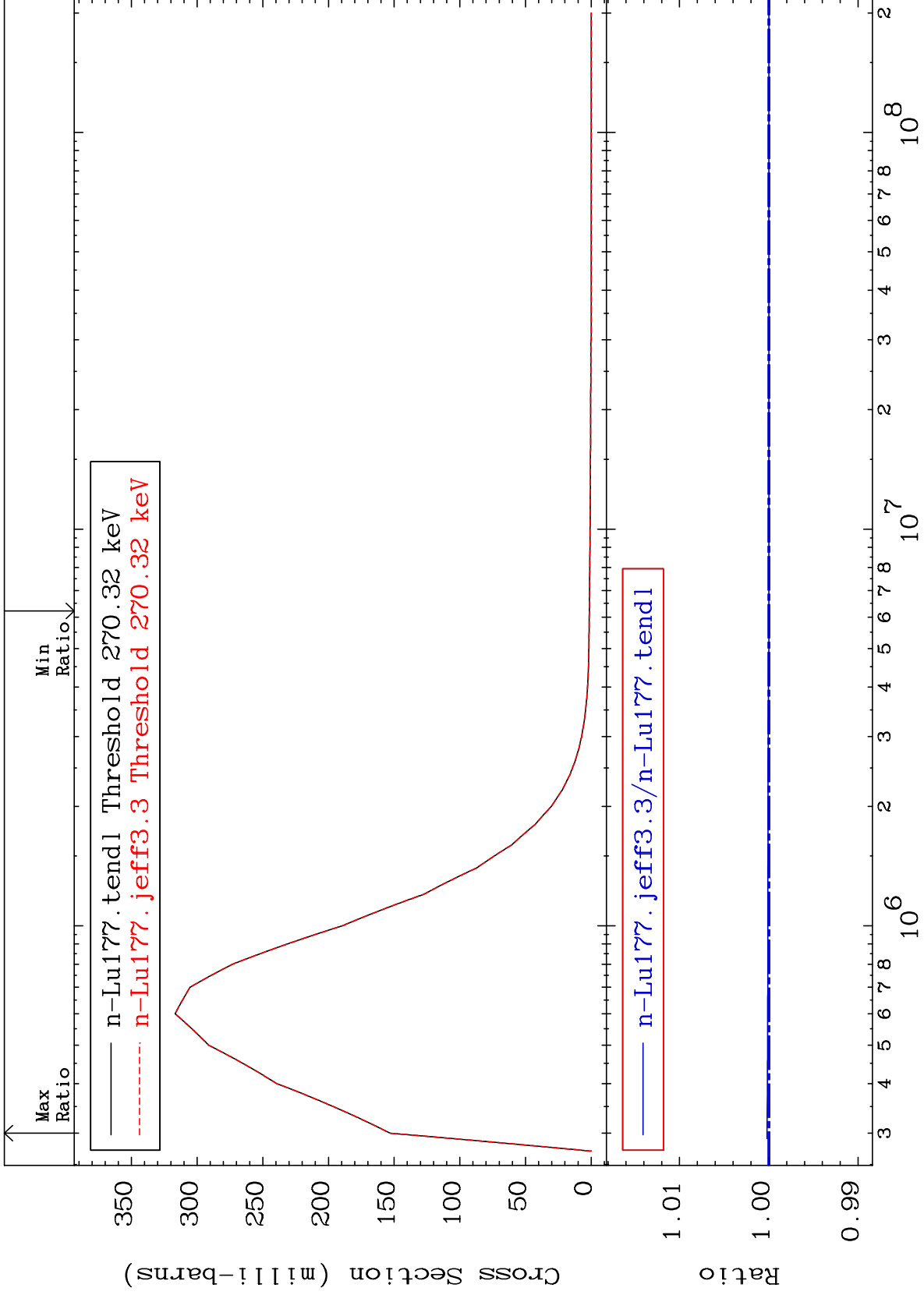
71-Lu-177
0.000 To 0.029 %



MAT 7131

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

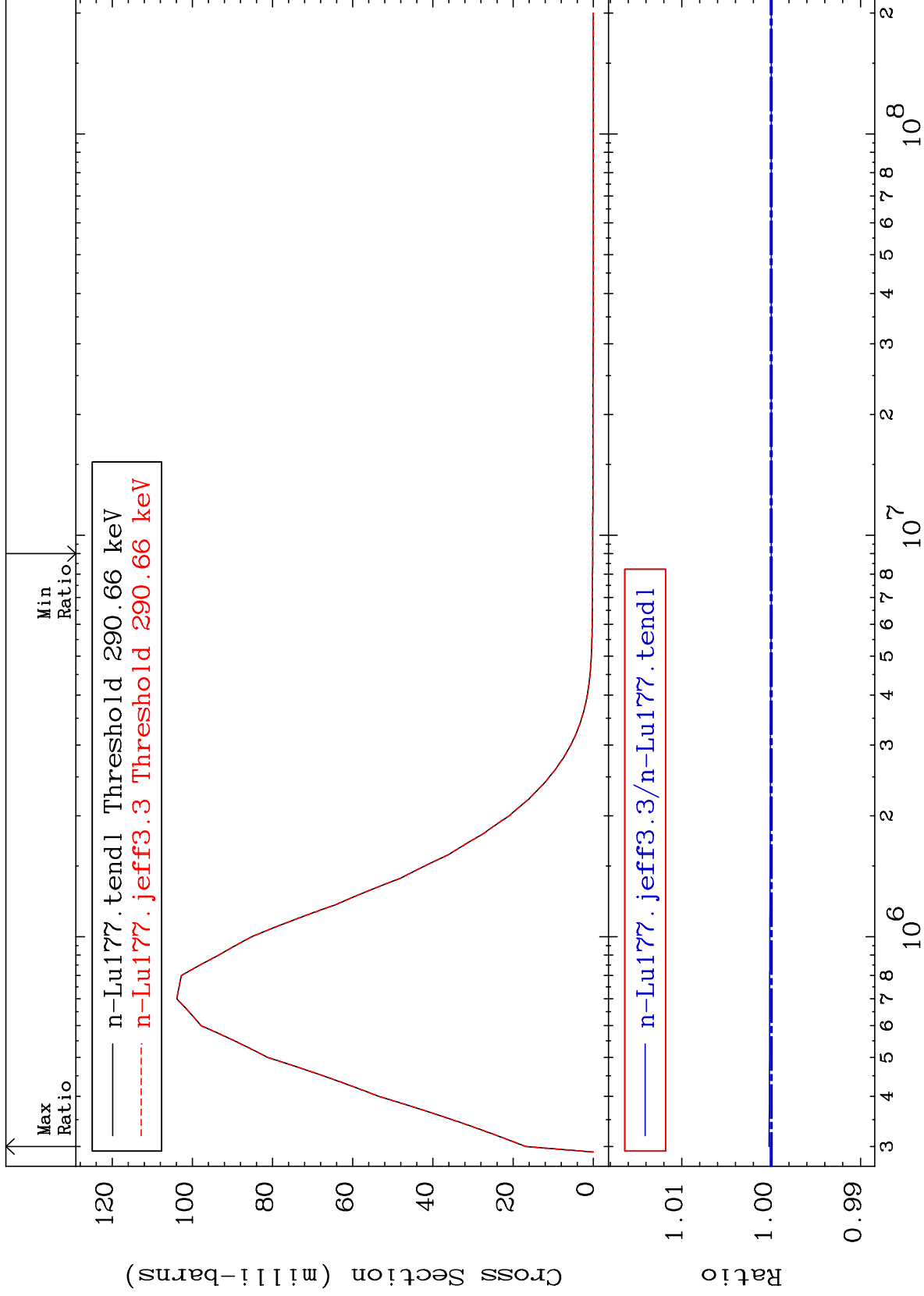
71-Lu-177
0.000 To 0.020 %



MAT 7131

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

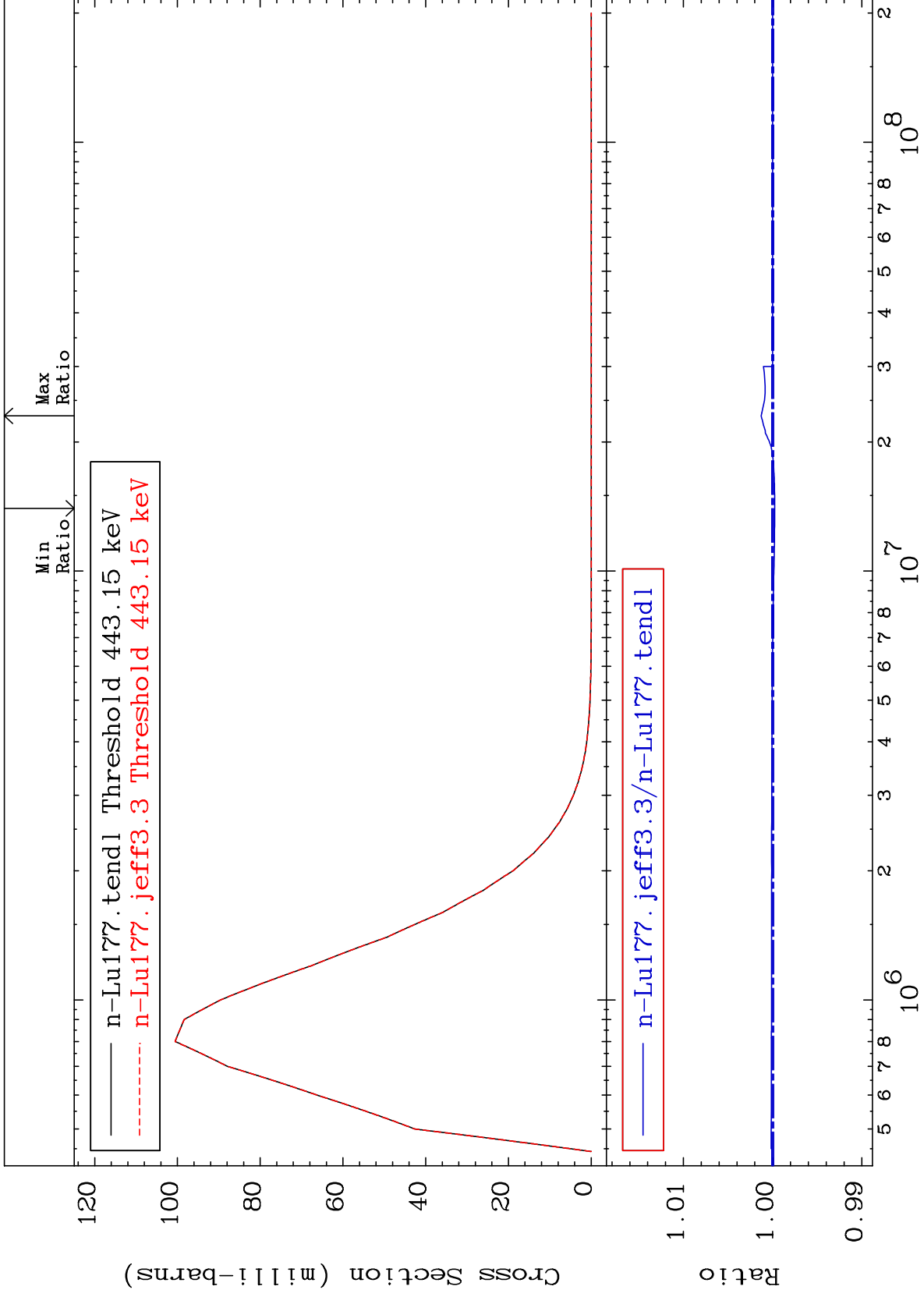
71-Lu-177
0.000 To 0.024 %



MAT 7131

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

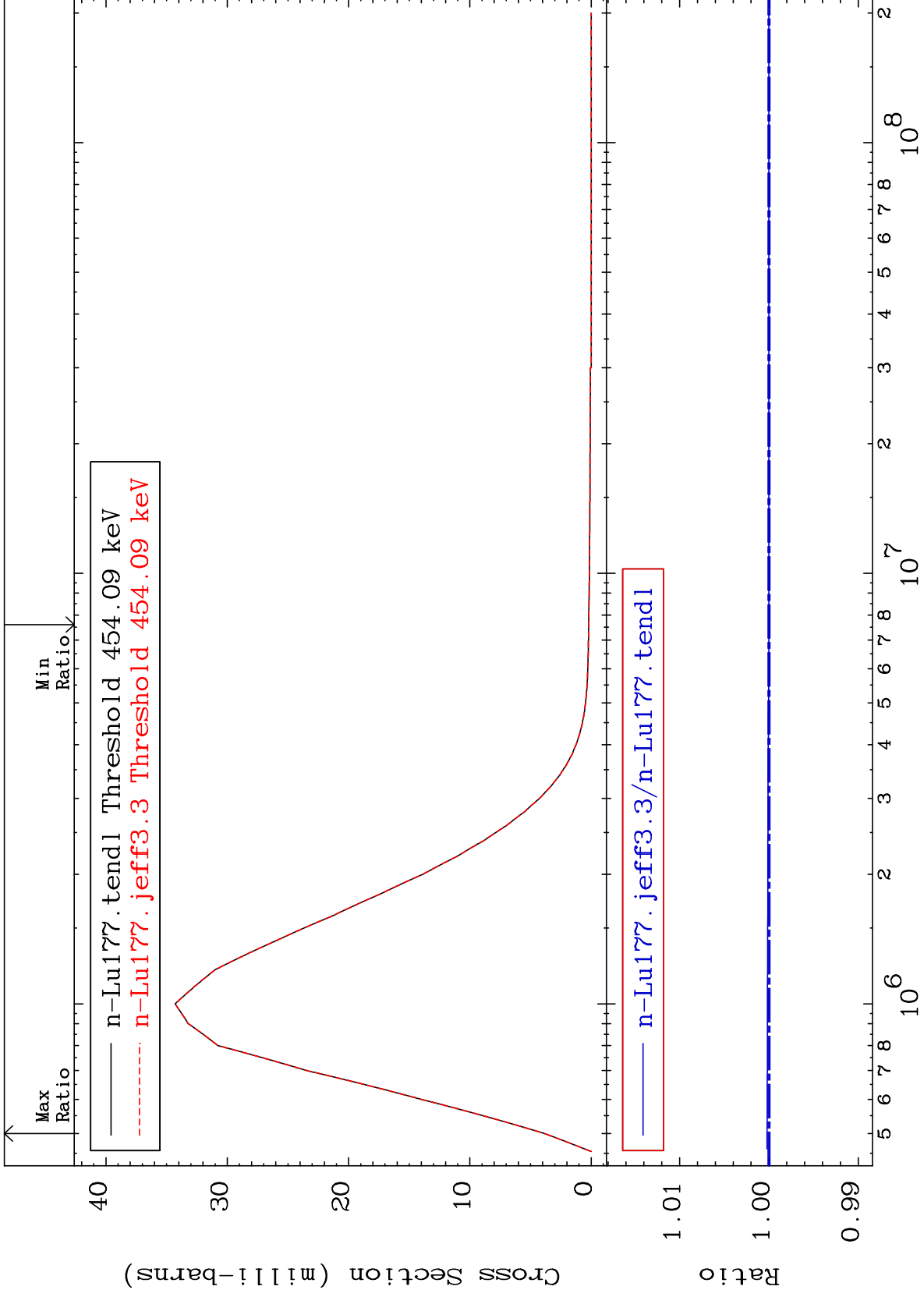
⁷¹-Lu-177
-0.022 To 0.128 %



MAT 7131

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

71-Lu-177
0.000 To 0.022 %



MAT 7131

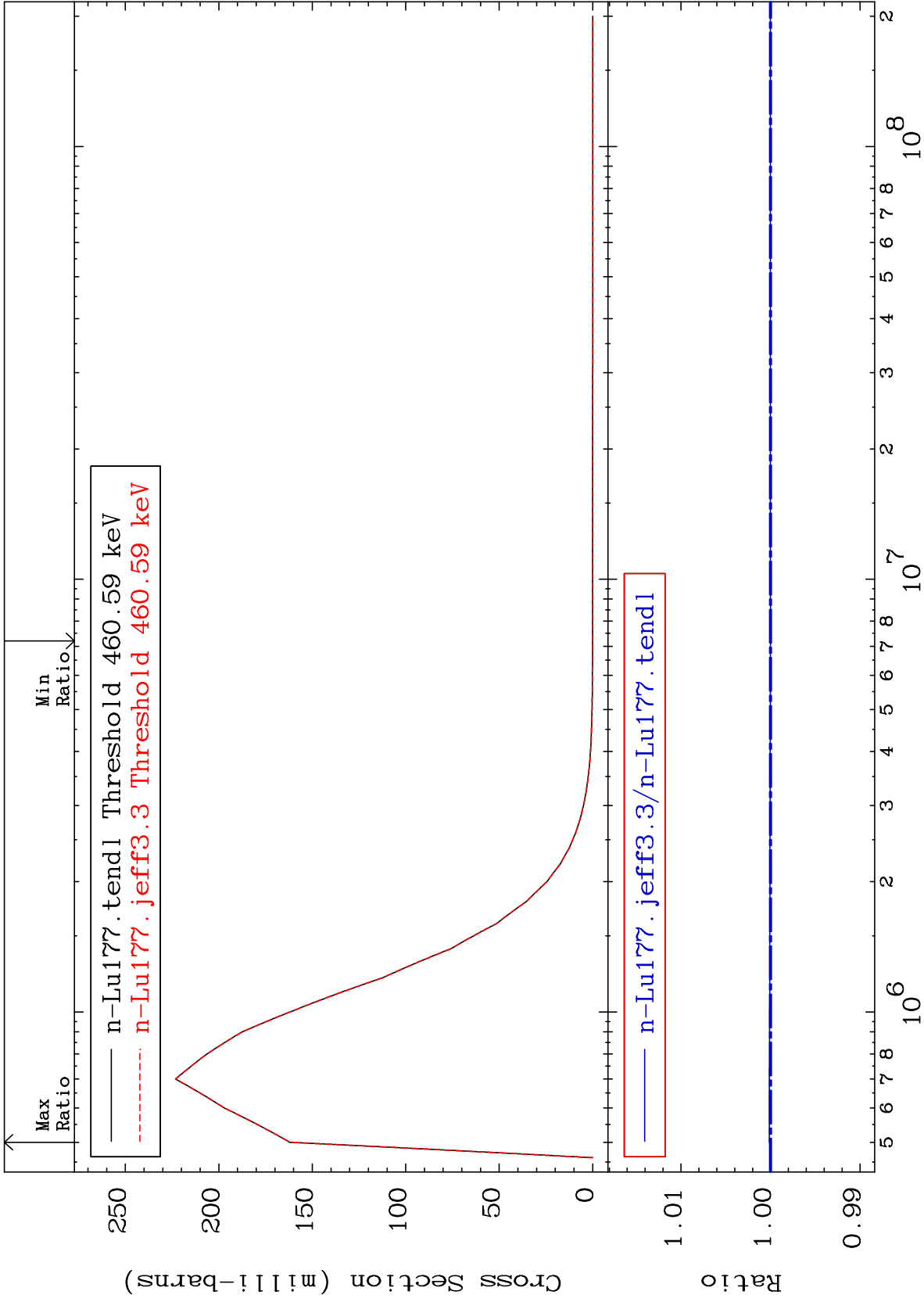
MT= 57 (n,n') Level

71-Lu-177

Cross Section

0.000

To 0.014 %



26

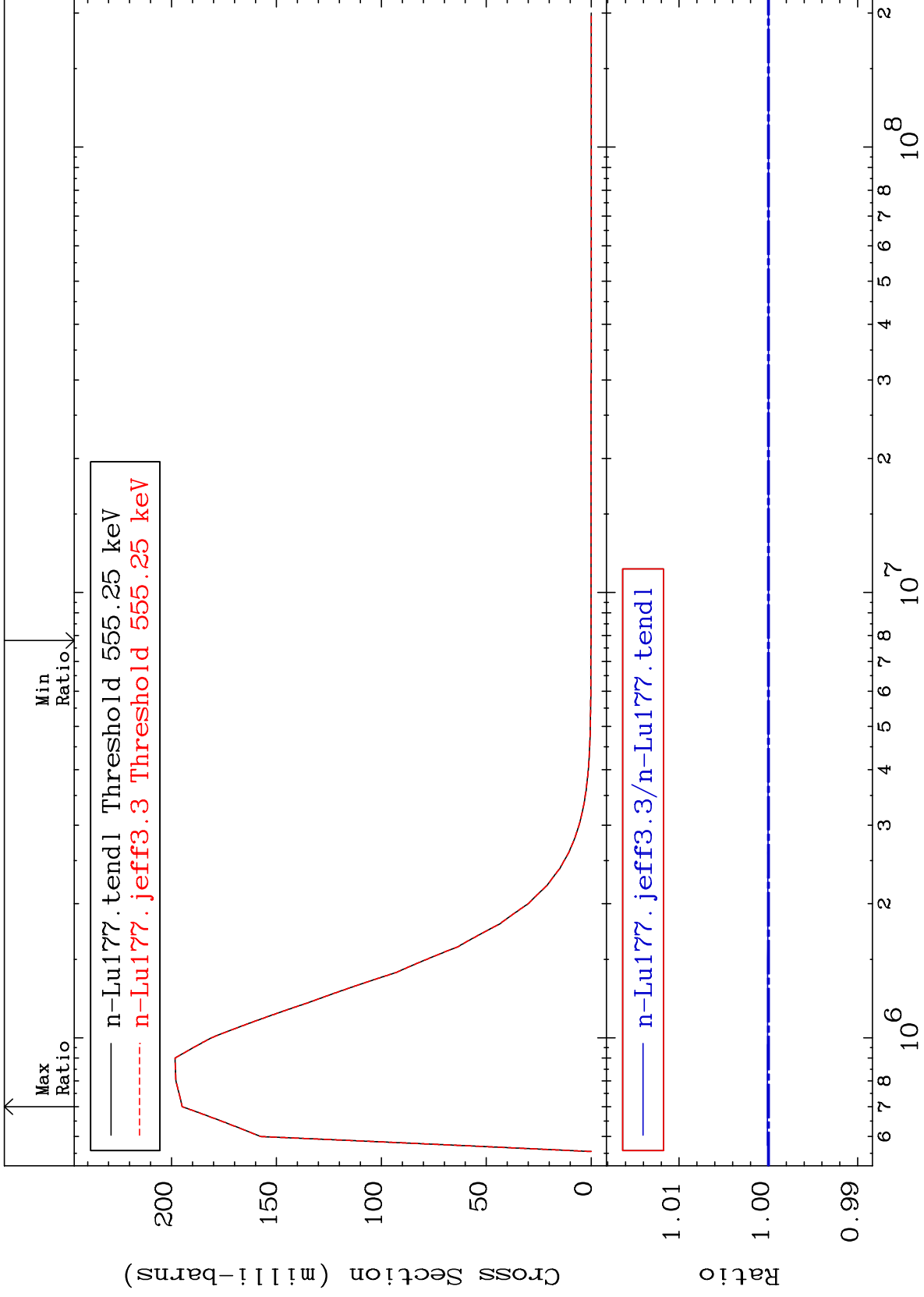
Incident Energy (eV)

71-Lu-177

MAT 7131

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

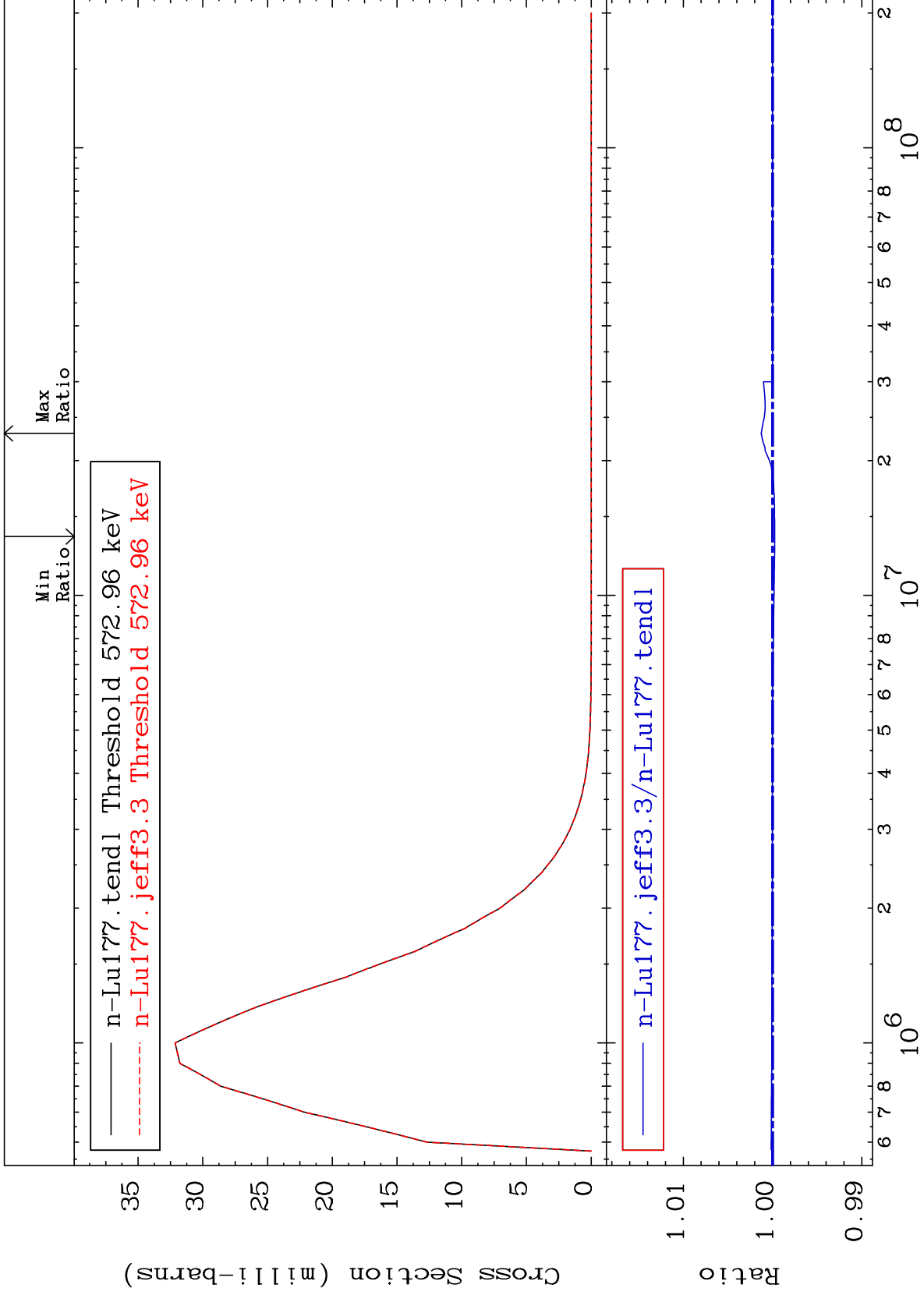
71-Lu-177
0.000 To 0.011 %



MAT 7131

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

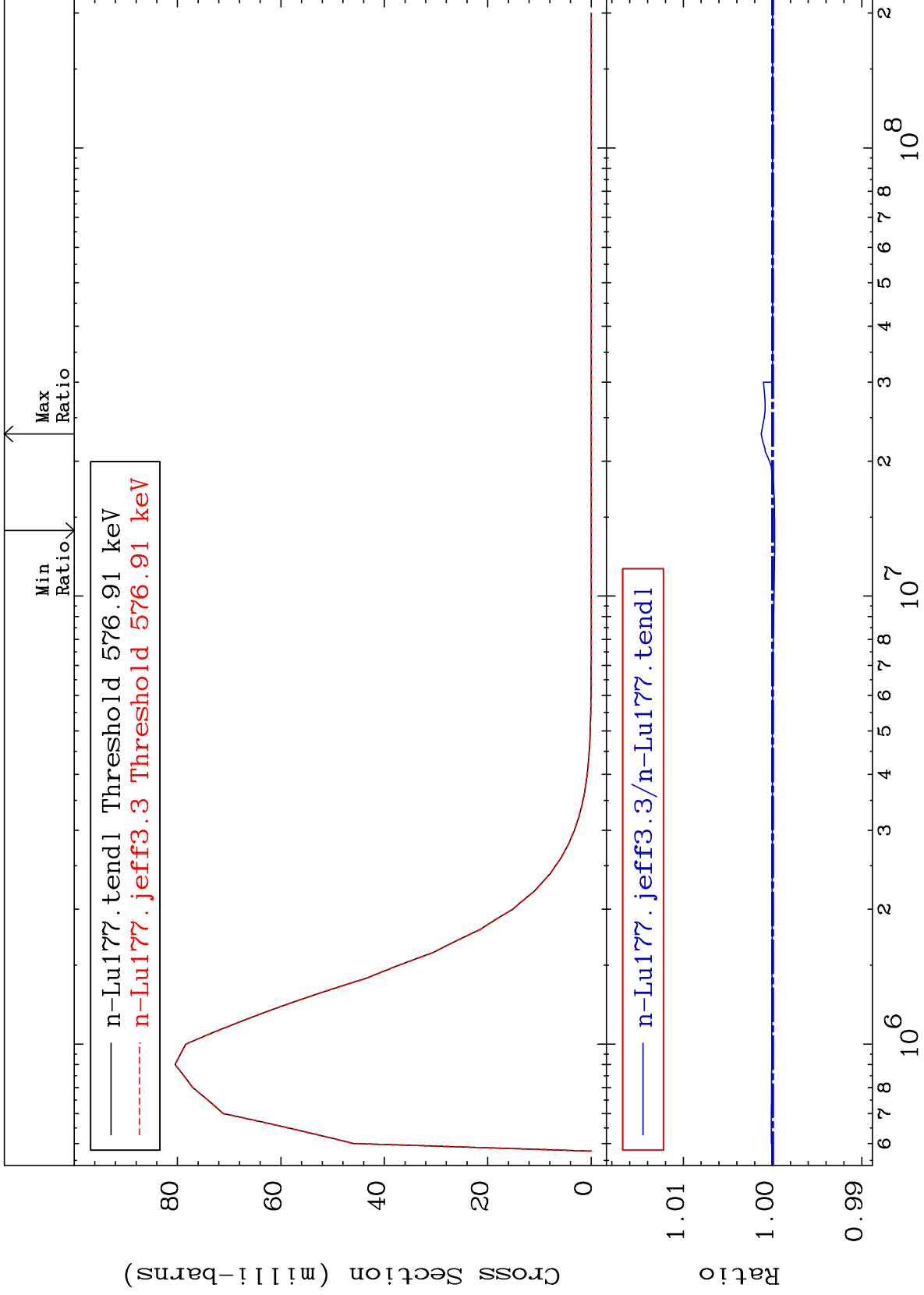
71-Lu-177
-0.024 To 0.127 %



MAT 7131

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

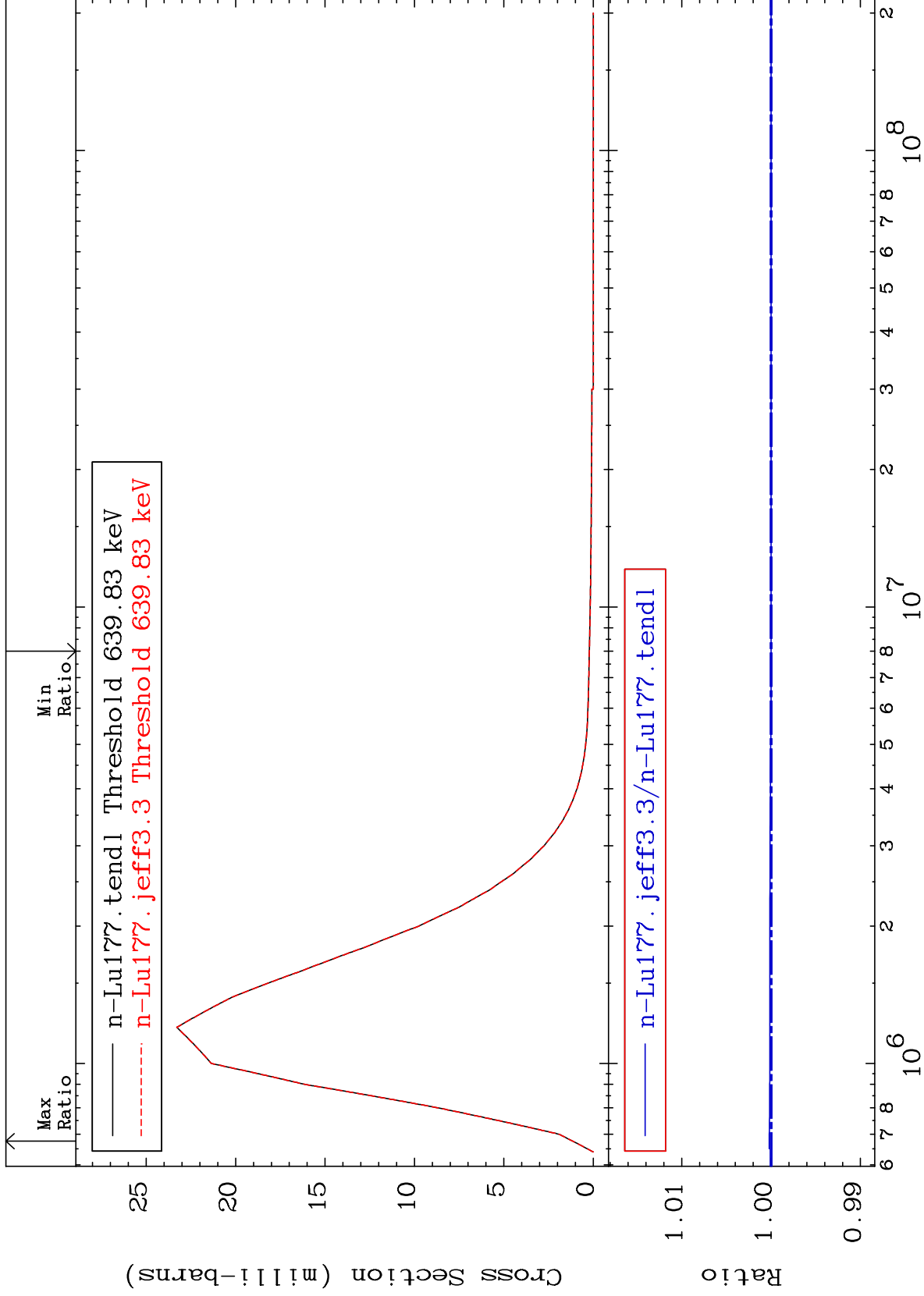
71-Lu-177
-0.024 To 0.127 %



MAT 7131

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

71-Lu-177
0.000 To 0.021 %



30

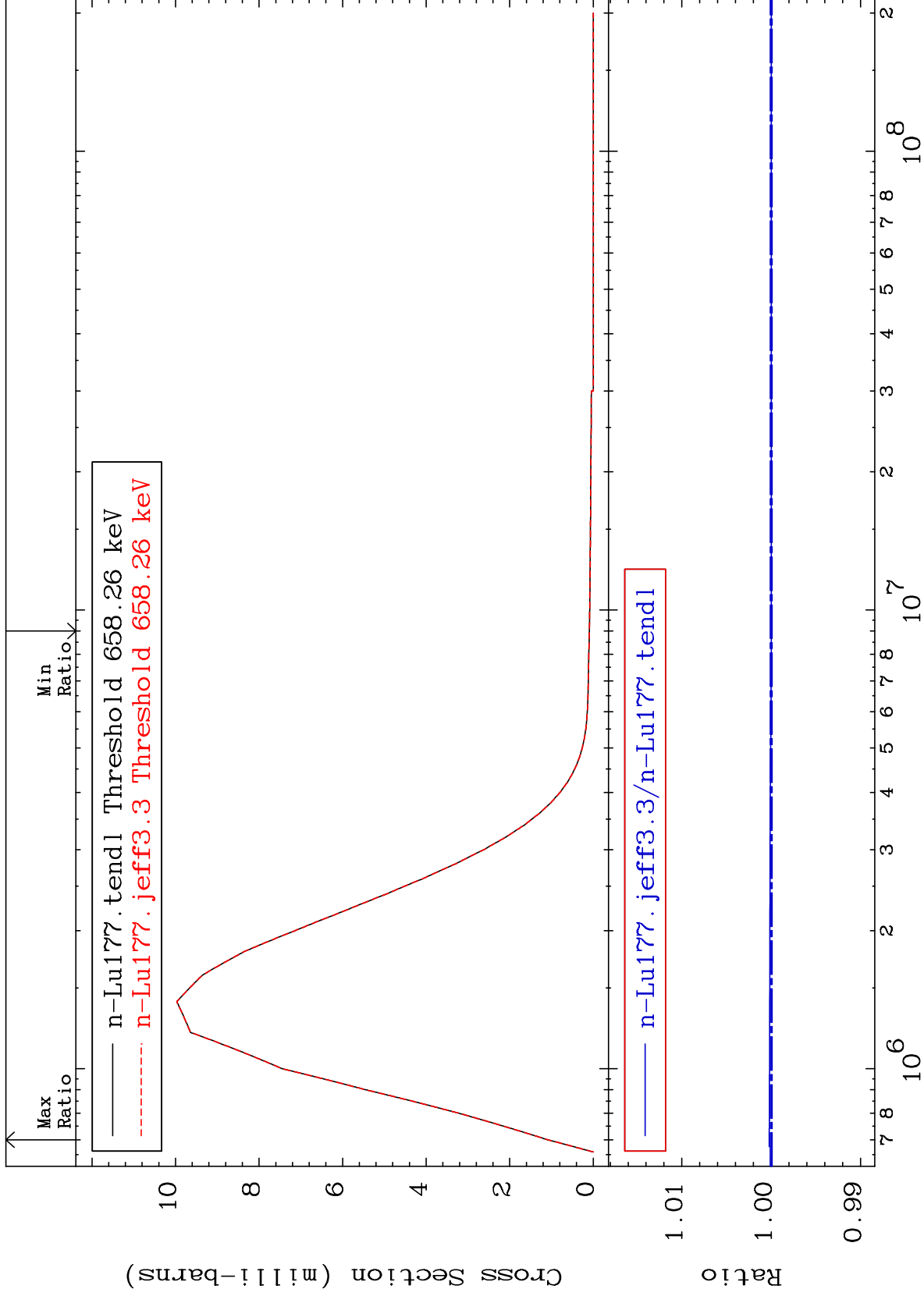
Incident Energy (eV)

71-Lu-177

MAT 7131

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

71-Lu-177
0.000 To 0.023 %



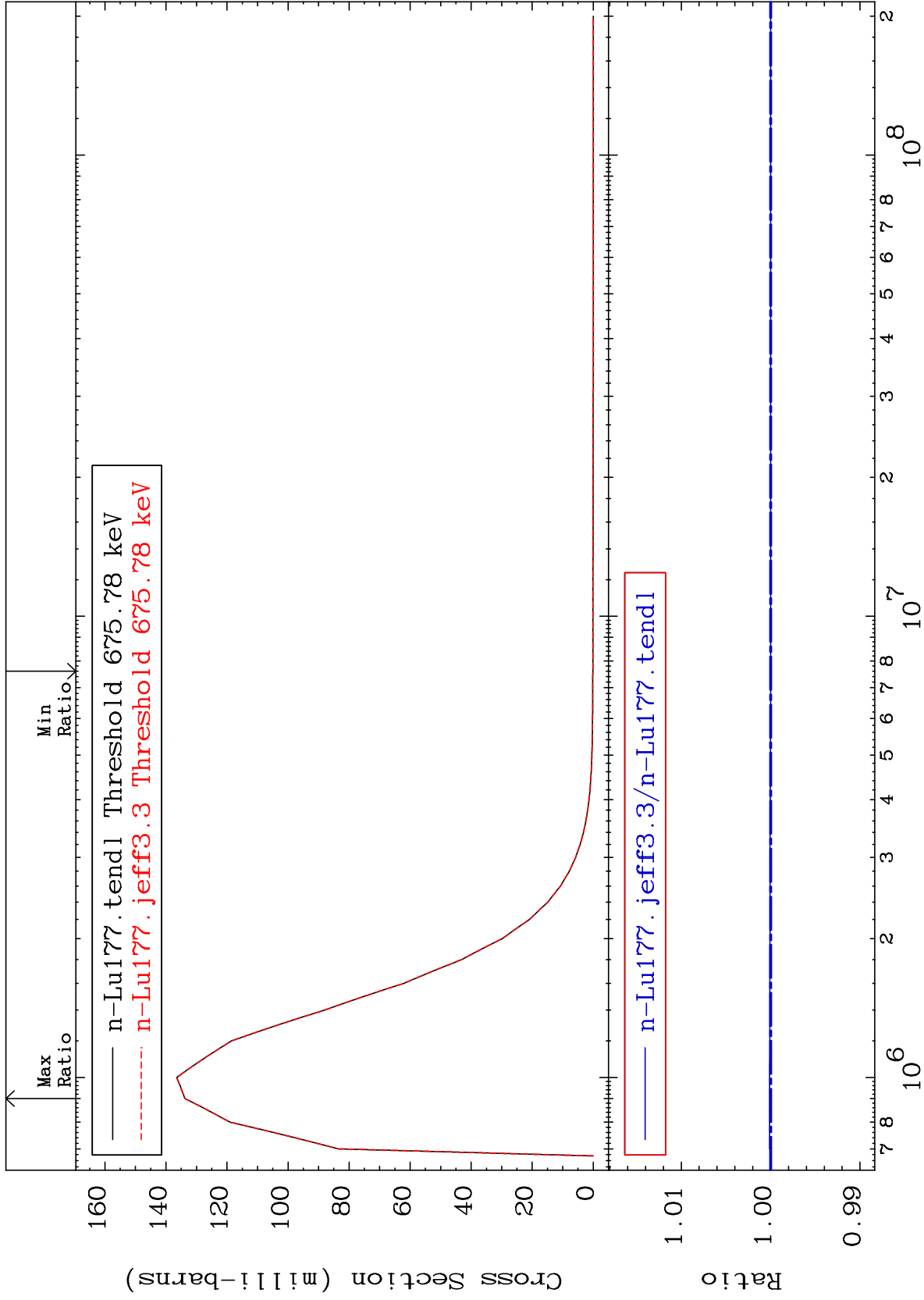
MAT 7131

MT= 63 (n,n') Level

71-Lu-177

Cross Section

0.000 To 0.011 %



32

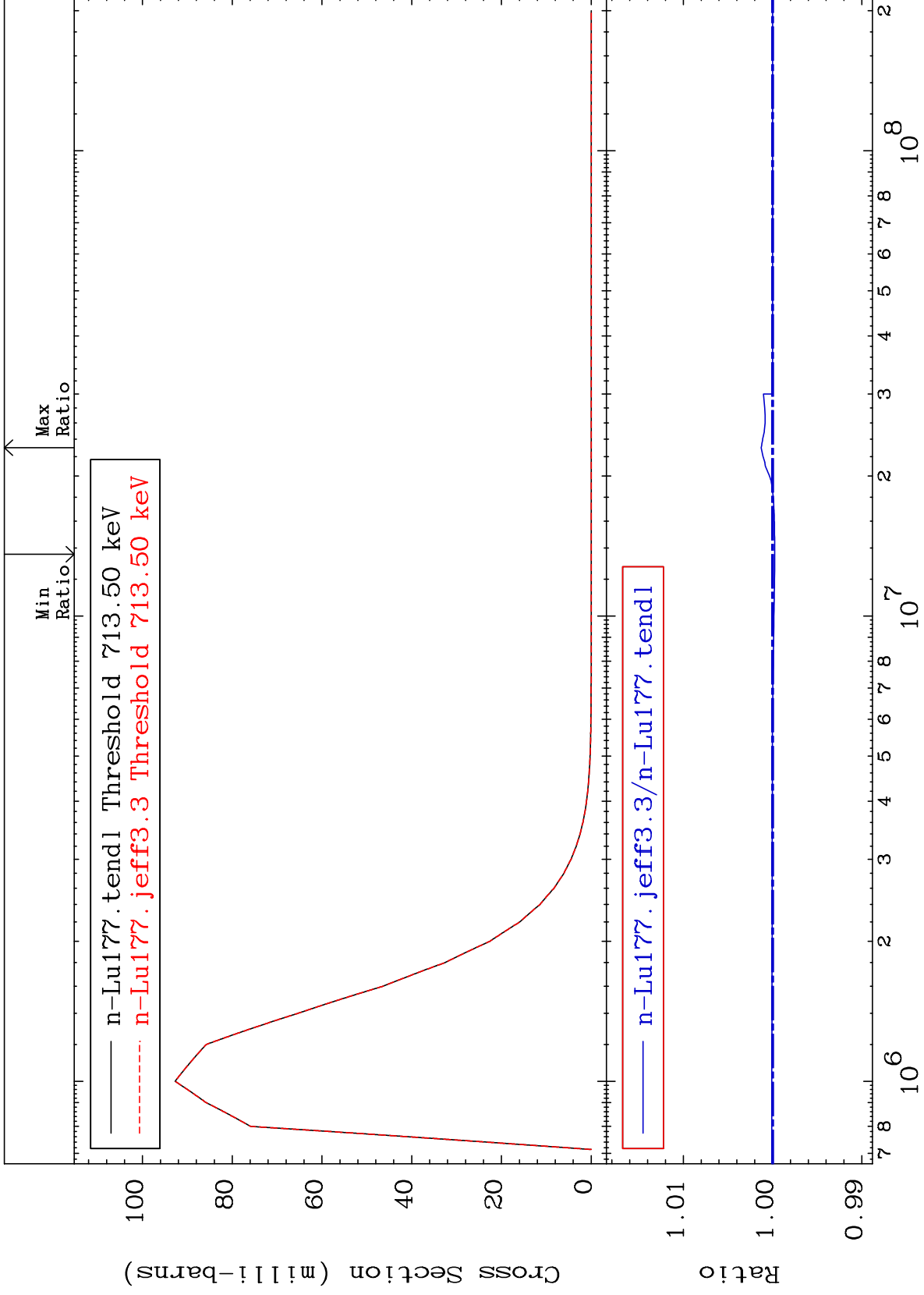
Incident Energy (eV)

71-Lu-177

MAT 7131

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

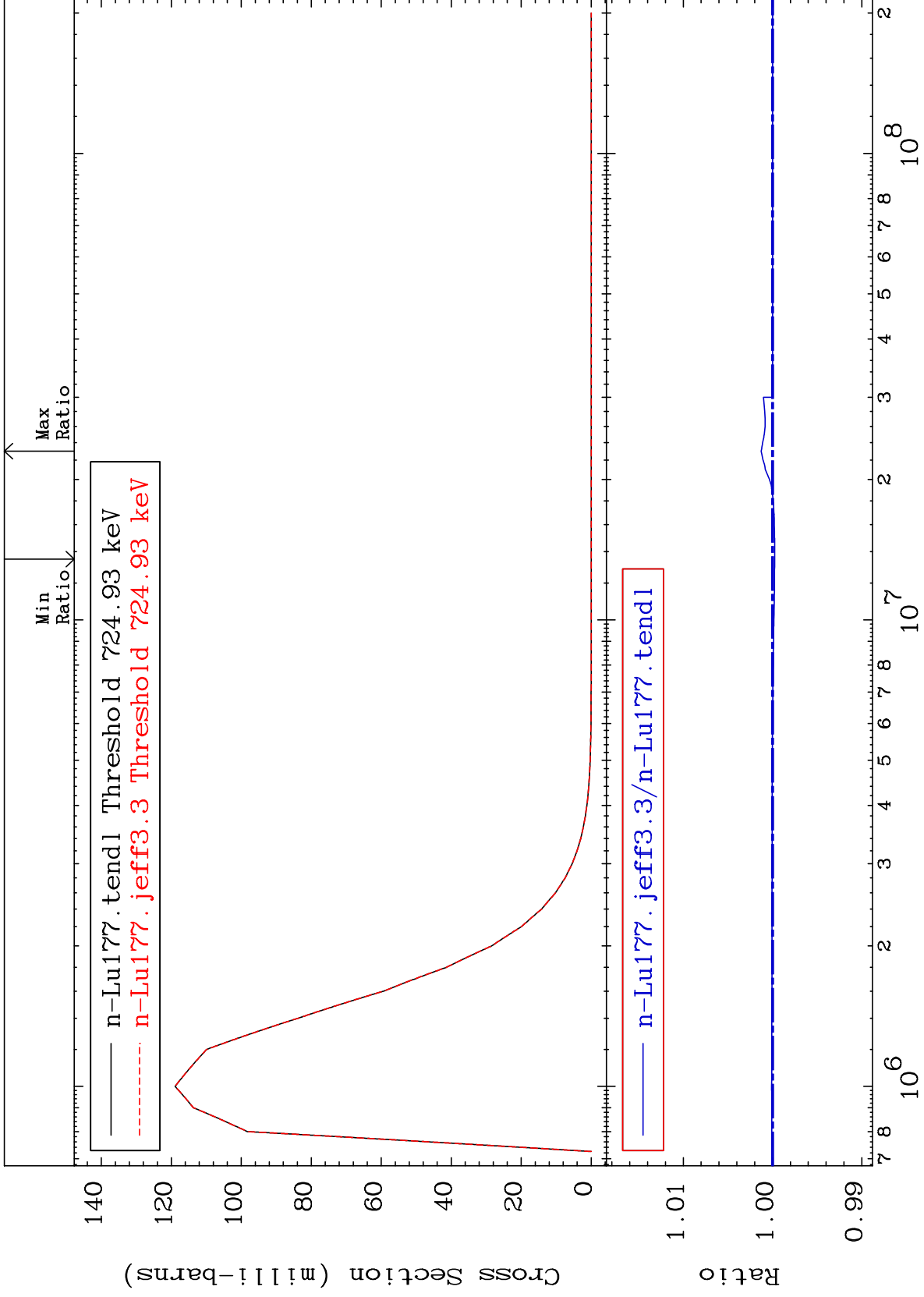
71-Lu-177
-0.024 To 0.127 %



MAT 7131

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

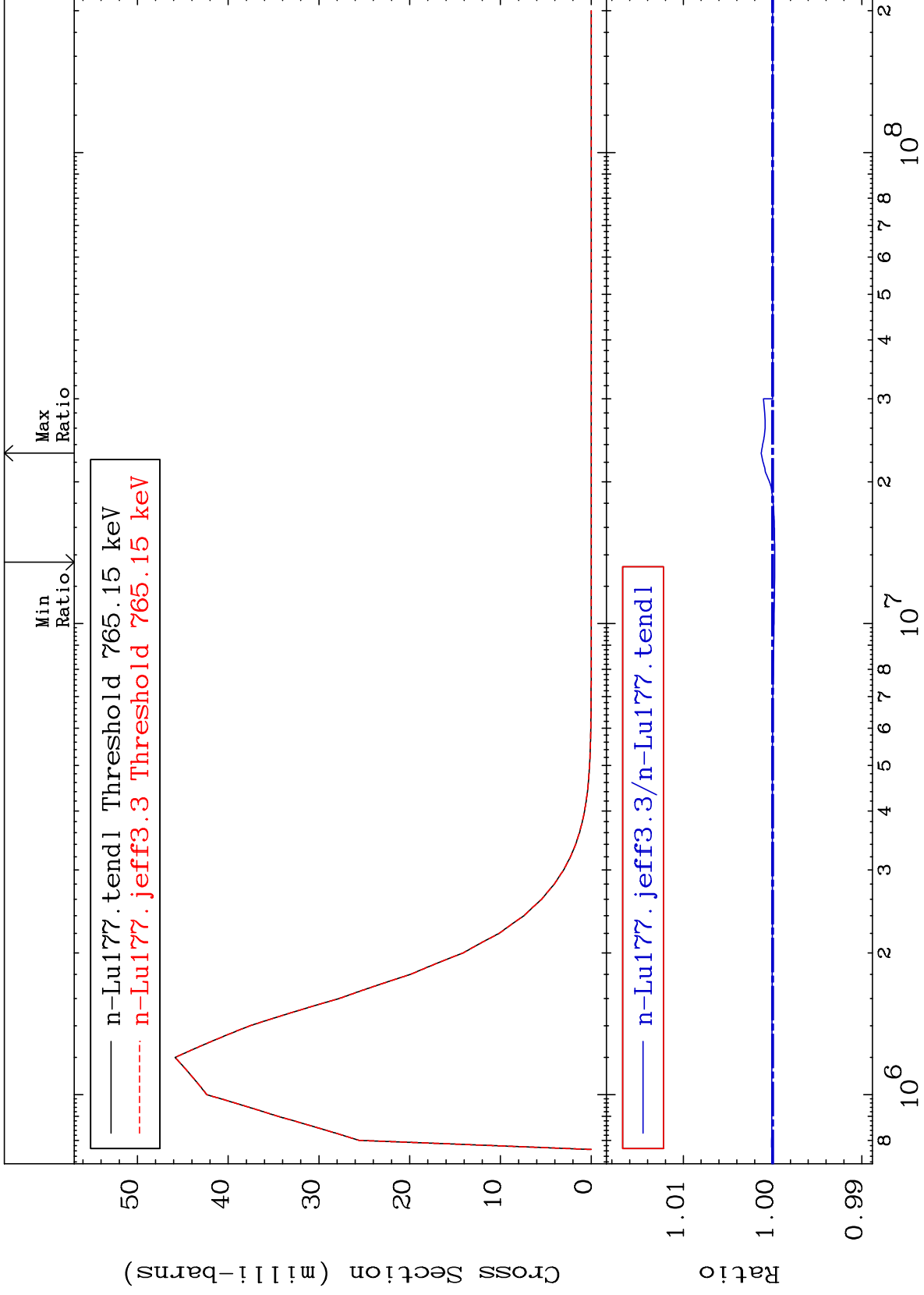
71-Lu-177
-0.023 To 0.127 %



MAT 7131

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

71-Lu-177
-0.024 To 0.127 %



35

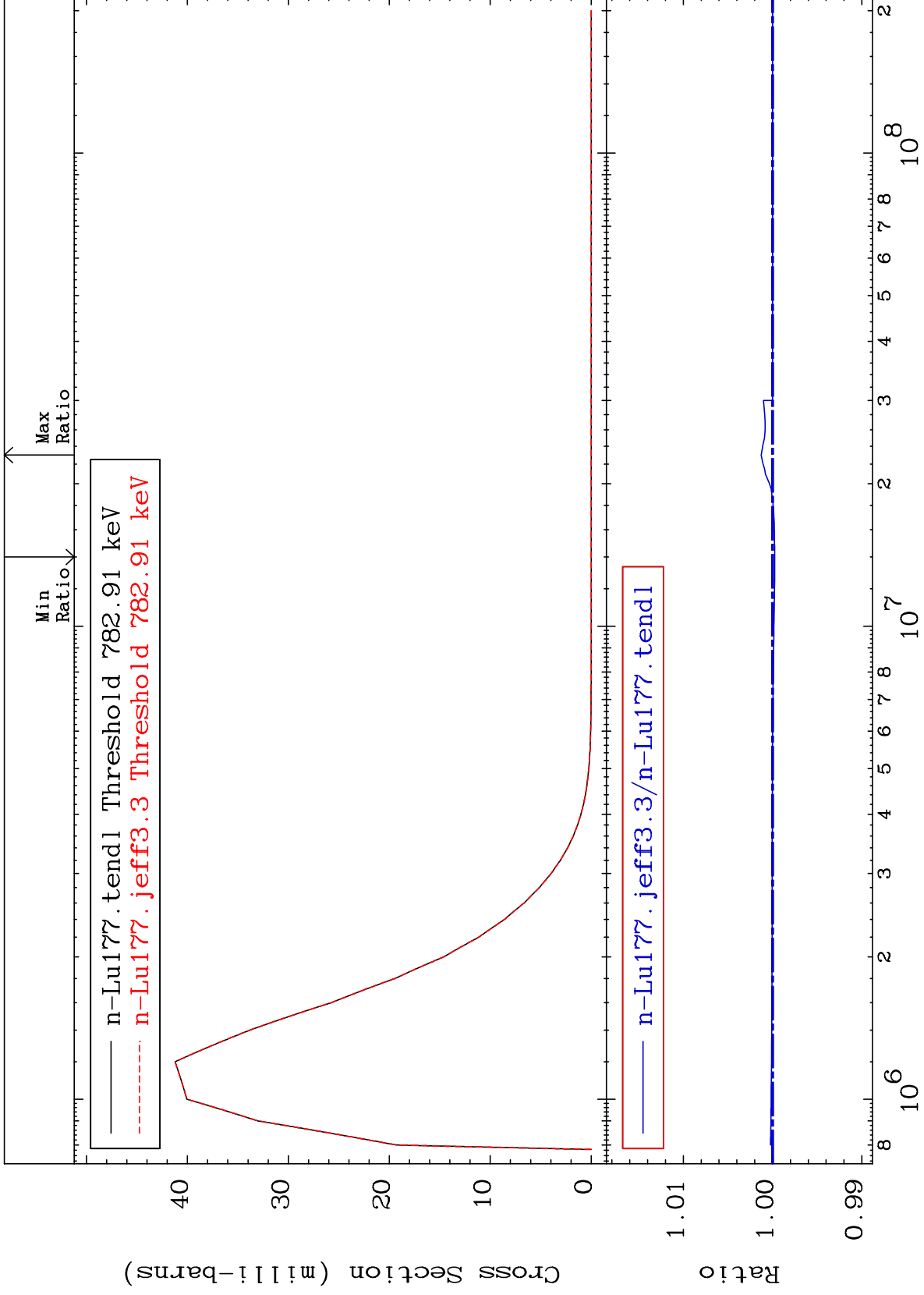
Incident Energy (eV)

71-Lu-177

MAT 7131

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

71-Lu-177
-0.024 To 0.127 %



36

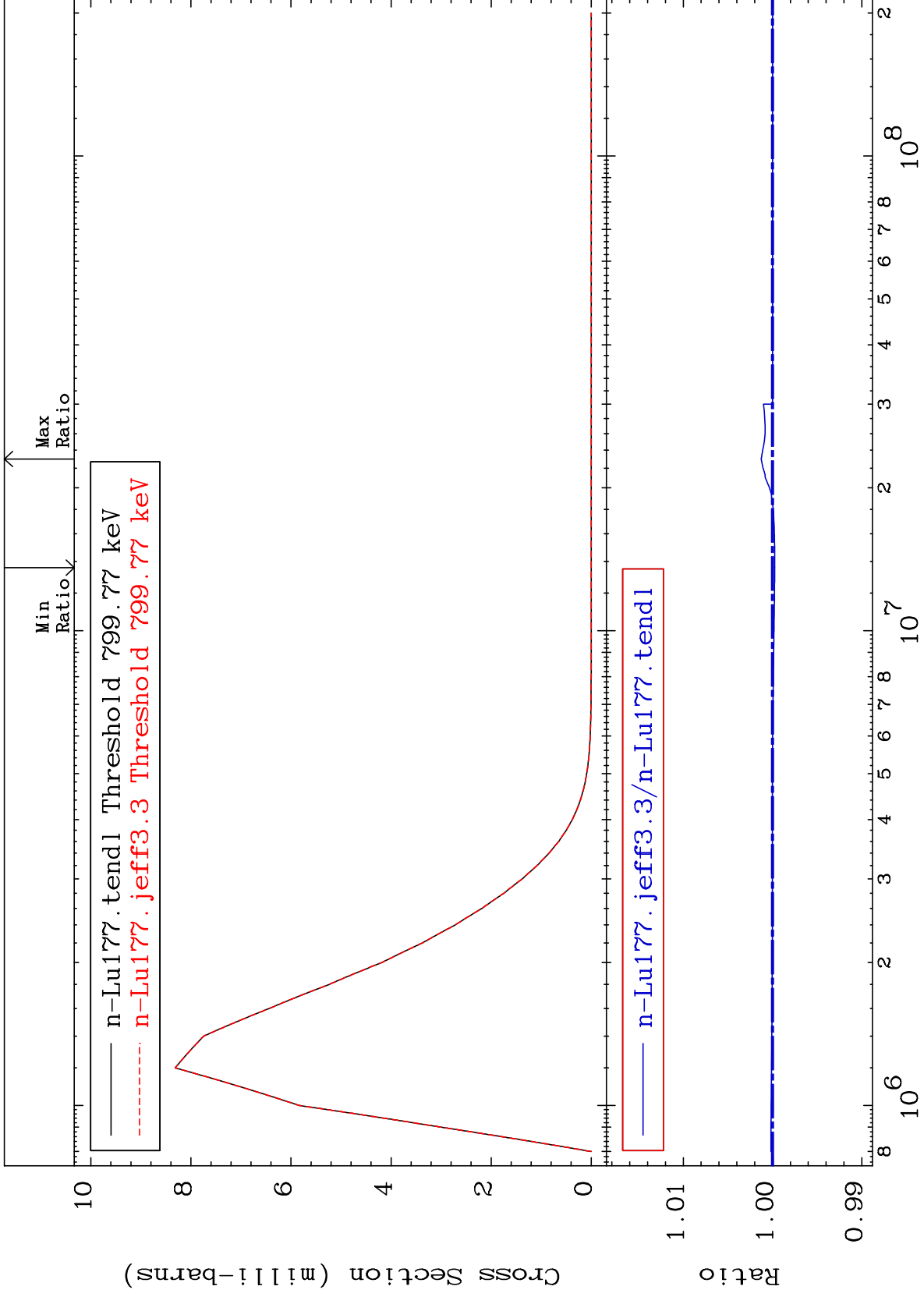
Incident Energy (eV)

71-Lu-177

MAT 7131

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

71-Lu-177
-0.024 To 0.127 %



37

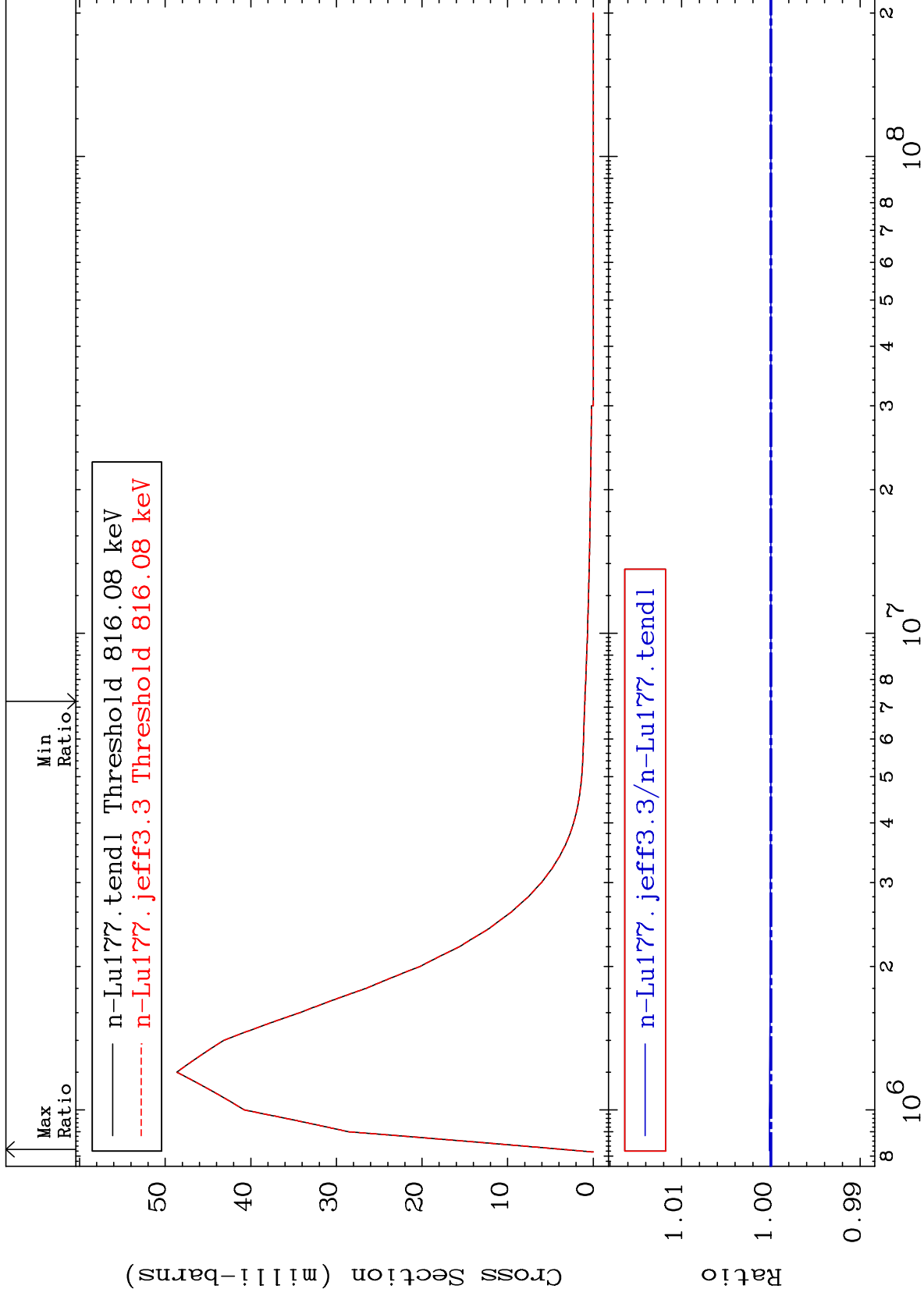
Incident Energy (eV)

71-Lu-177

MAT 7131

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

71-Lu-177
0.000 To 0.016 %



38

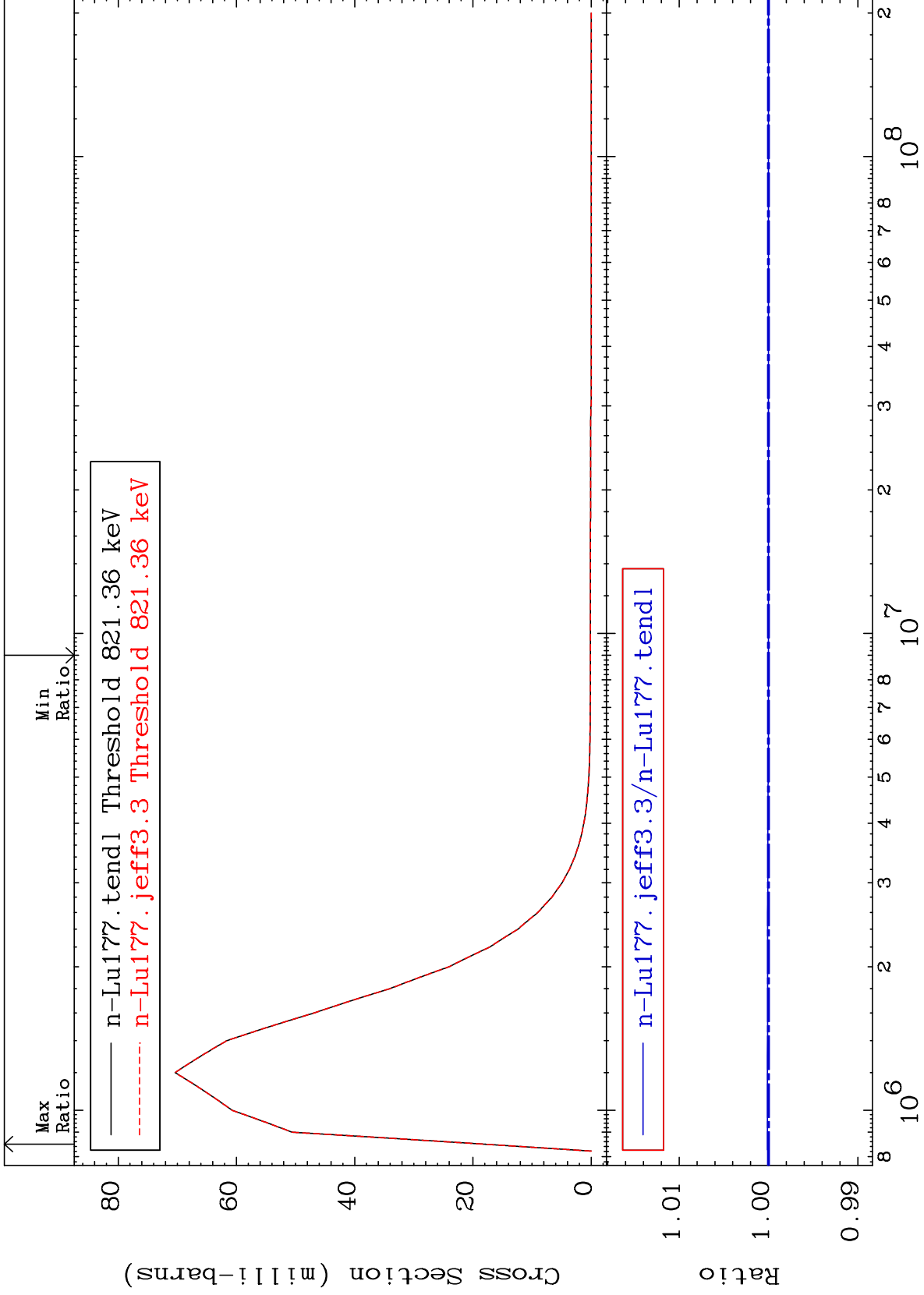
Incident Energy (eV)

71-Lu-177

MAT 7131

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

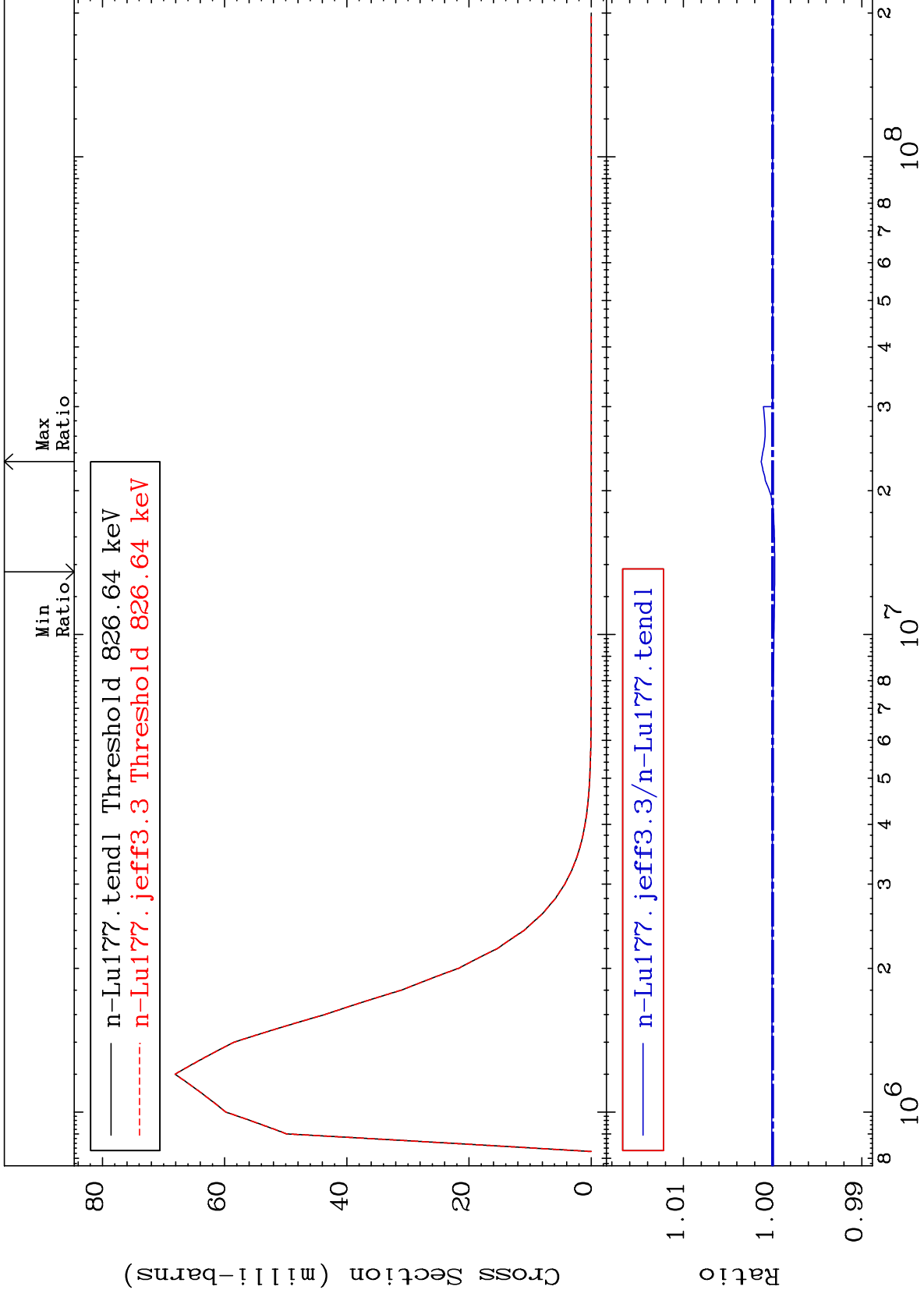
71-Lu-177
0.000 To 0.012 %



MAT 7131

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

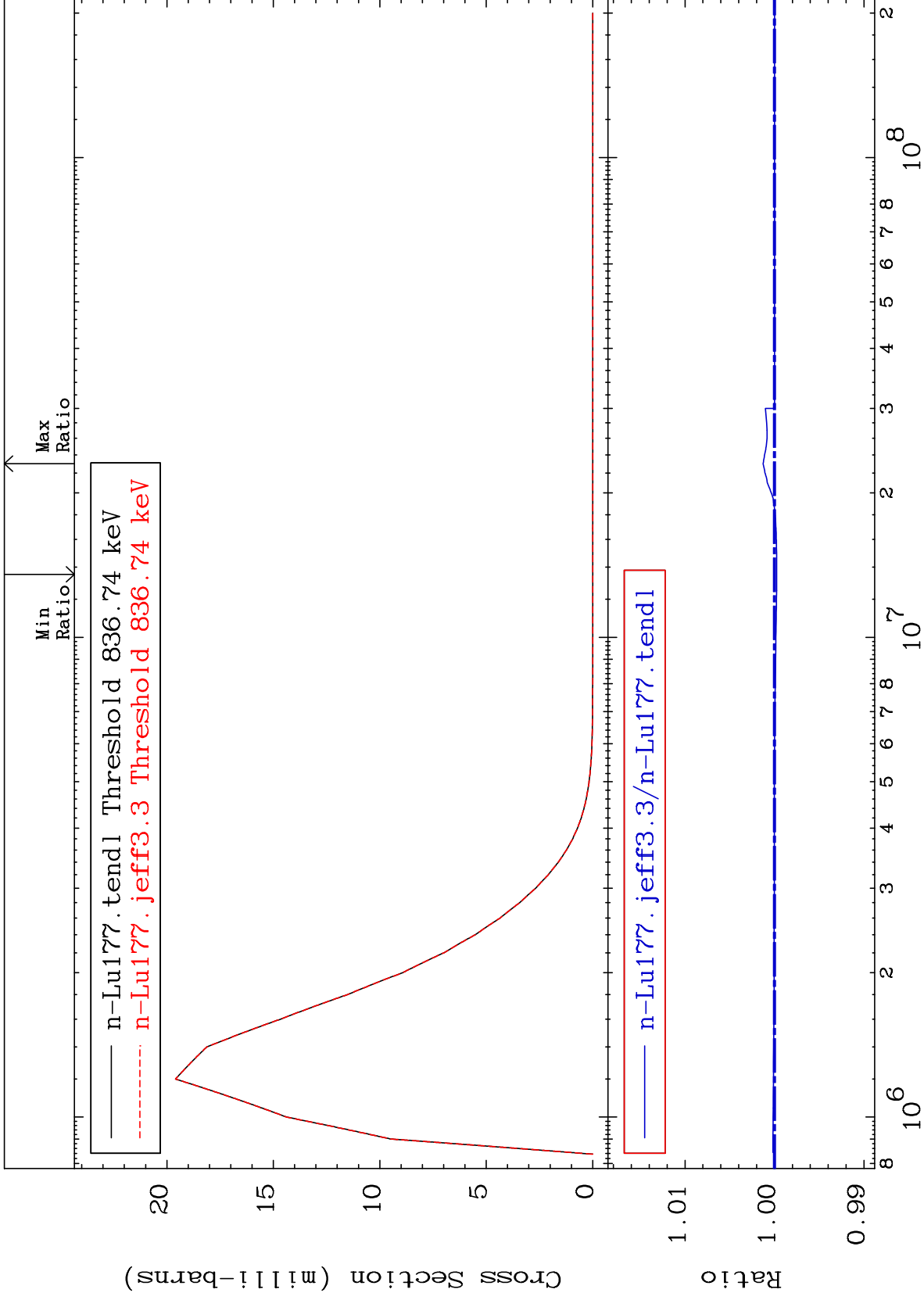
71-Lu-177
-0.024 To 0.127 %



MAT 7131

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

71-Lu-177
-0.024 To 0.127 %



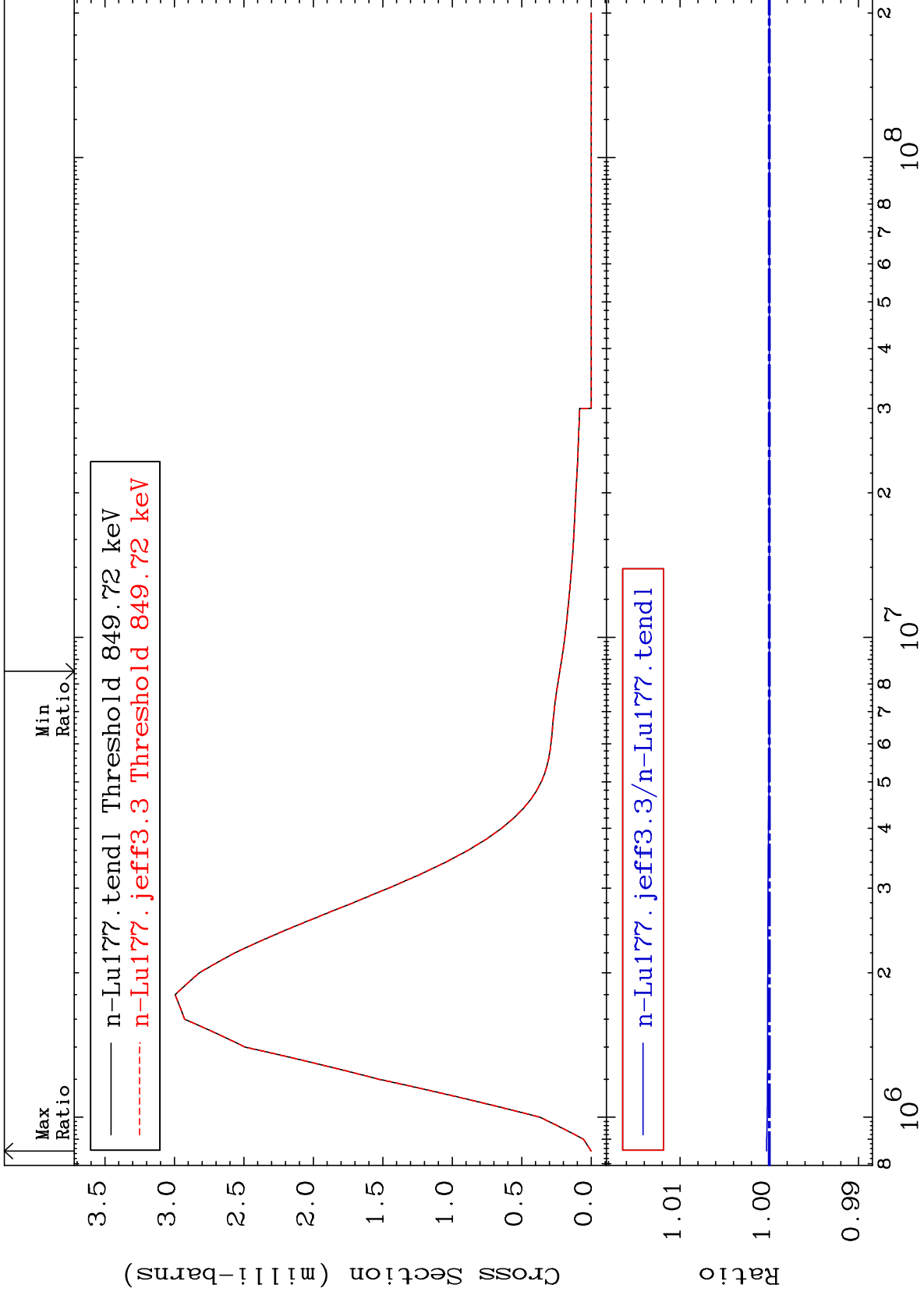
41

71-Lu-177

MAT 7131

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

71-Lu-177
0.000 To 0.030 %



42

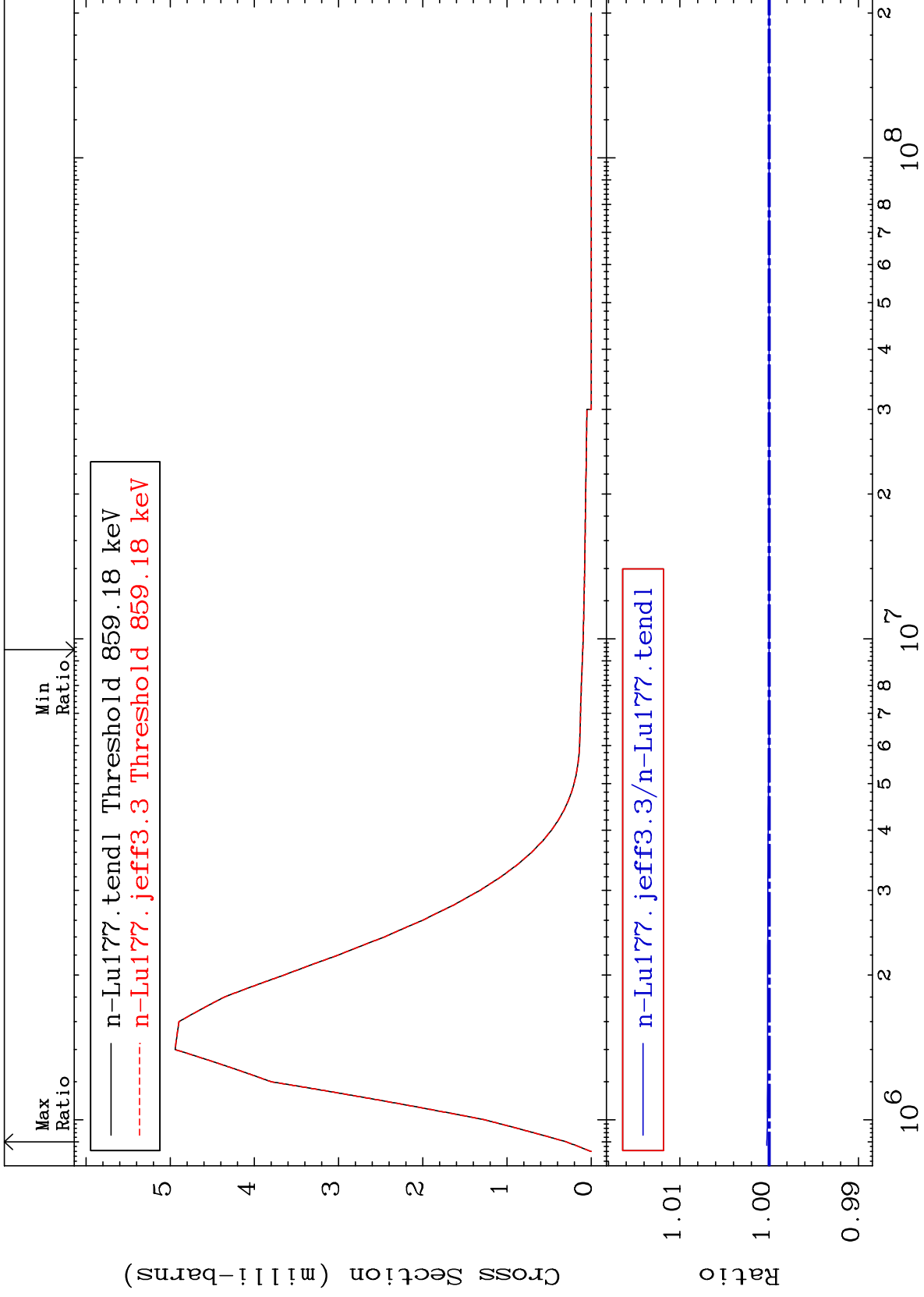
Incident Energy (eV)

71-Lu-177

MAT 7131

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

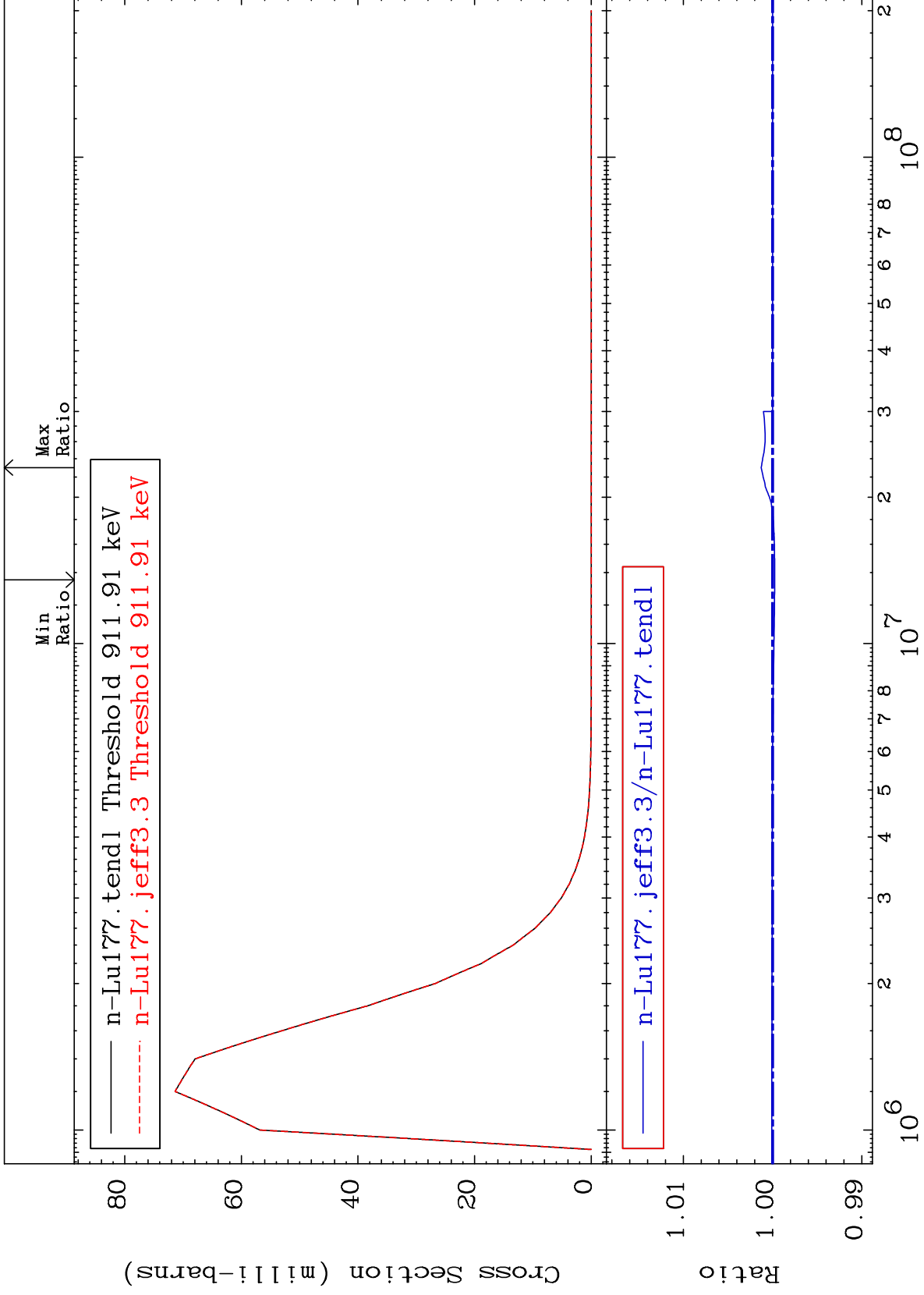
71-Lu-177
0.000 To 0.027 %



MAT 7131

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

71-Lu-177
-0.024 To 0.127 %



44

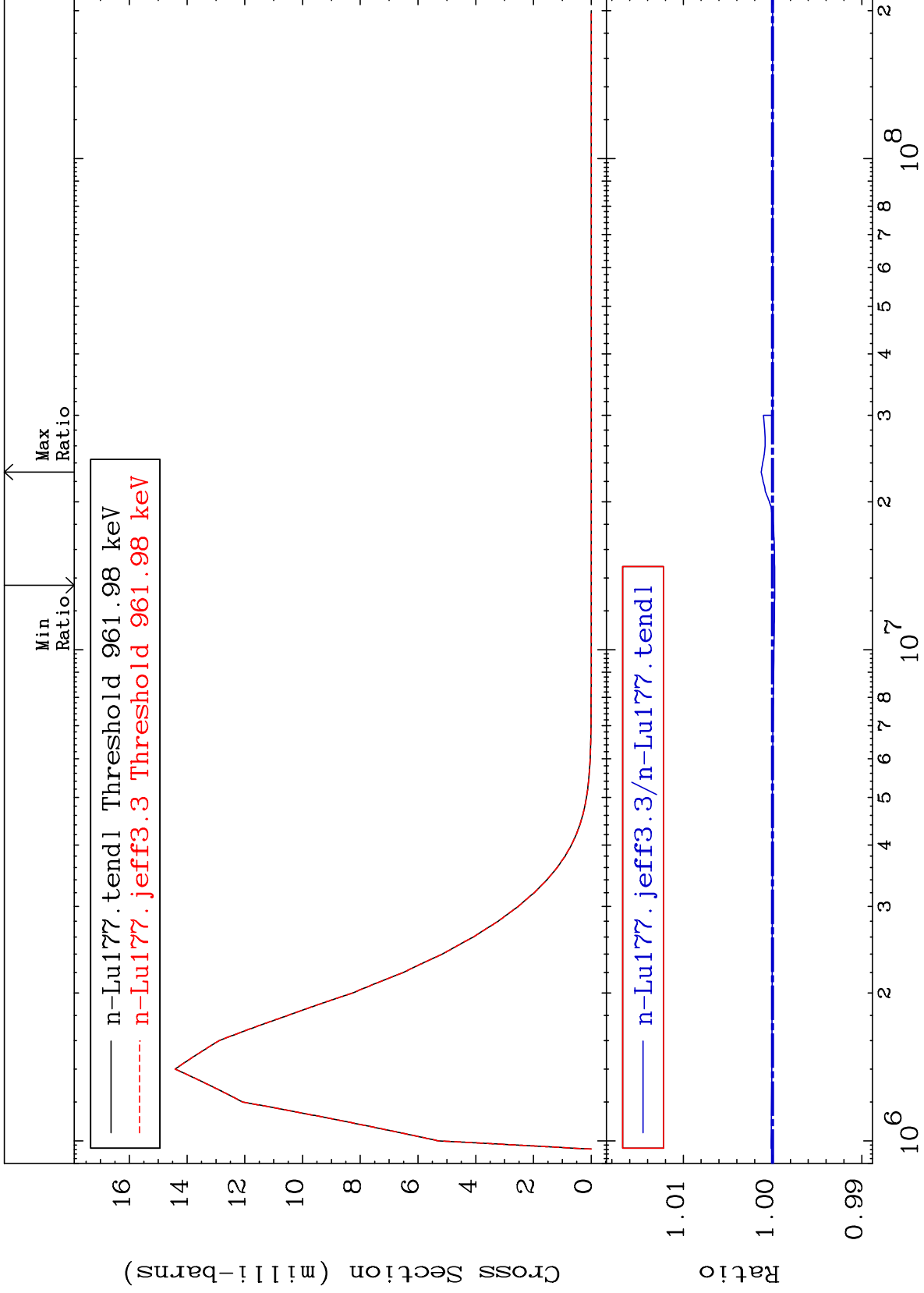
Incident Energy (eV)

71-Lu-177

MAT 7131

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

71-Lu-177
-0.024 To 0.127 %



Incident Energy (eV)

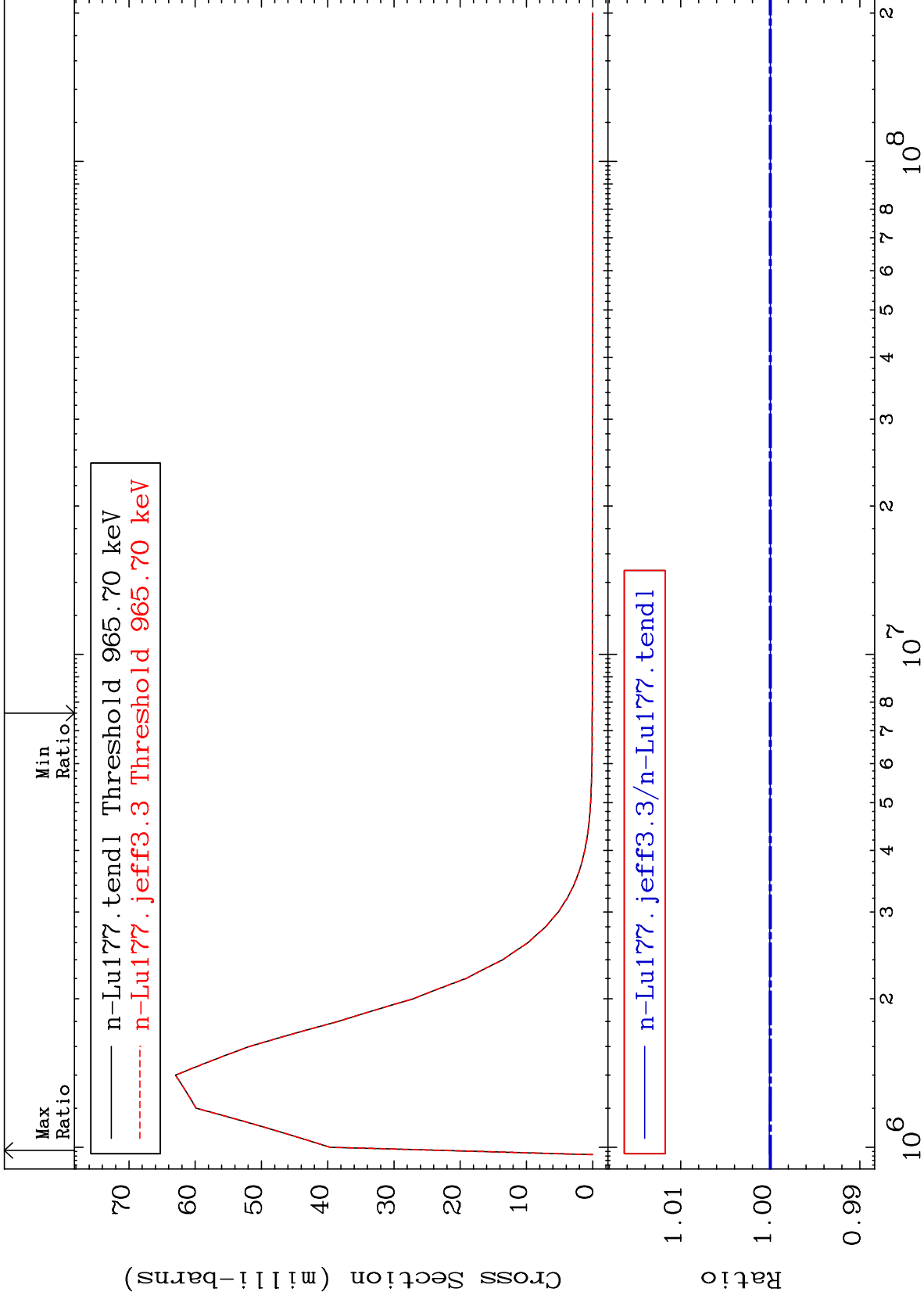
71-Lu-177

45

MAT 7131

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

71-Lu-177
0.000 To 0.010 %



46

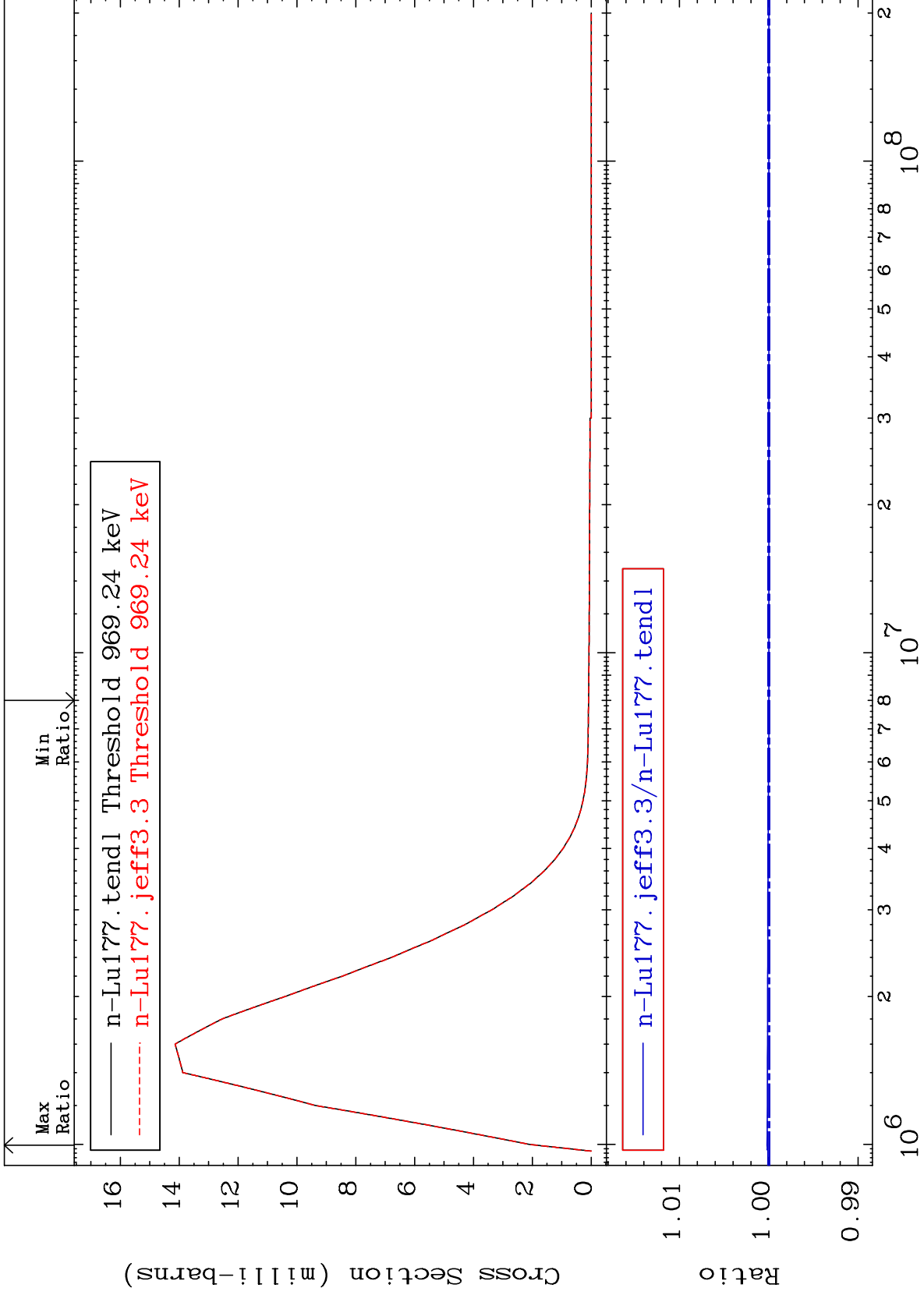
Incident Energy (eV)

71-Lu-177

MAT 7131

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

71-Lu-177
0.000 To 0.019 %



47

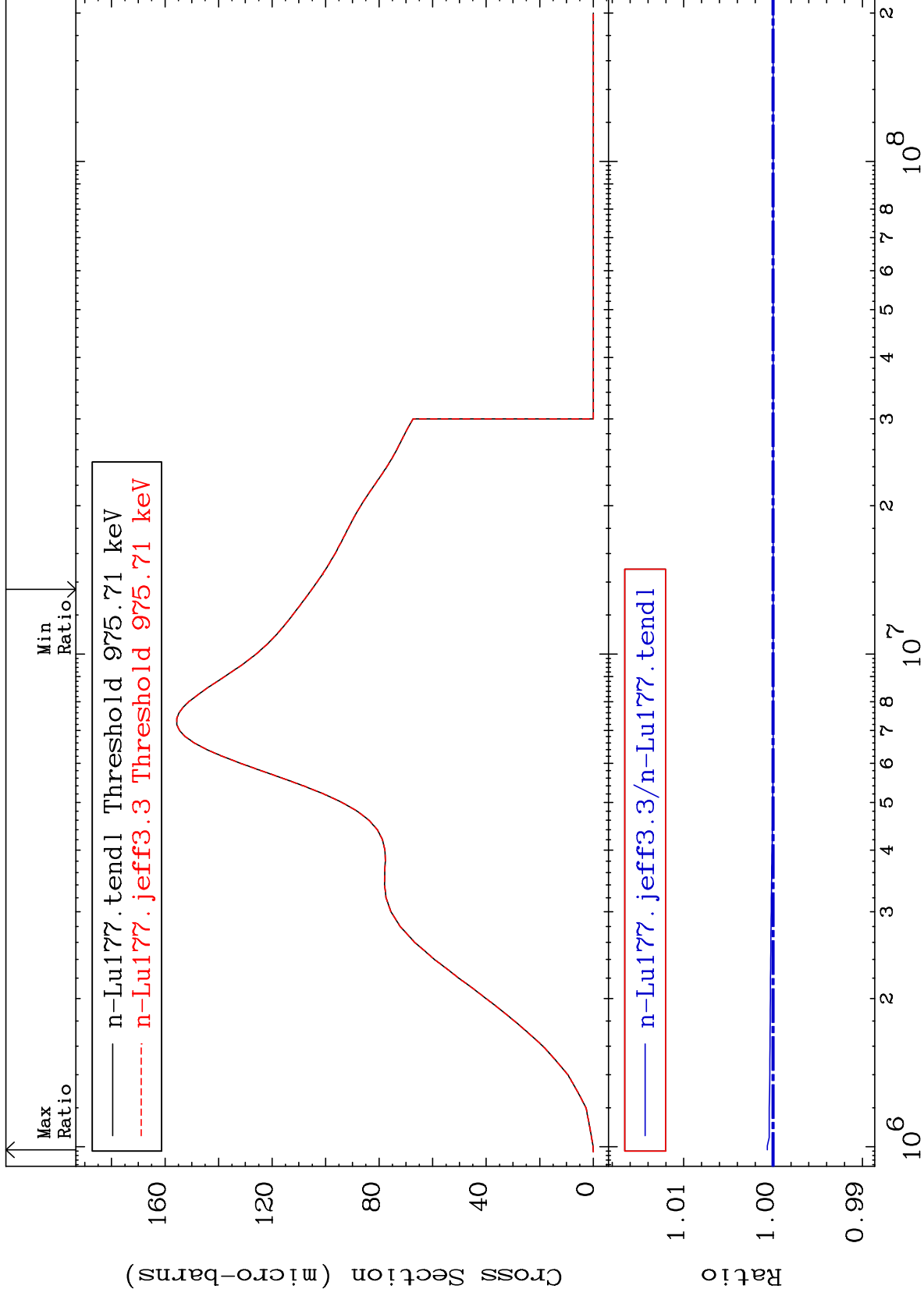
Incident Energy (eV)

71-Lu-177

MAT 7131

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

71-Lu-177
0.000 To 0.066 %



48

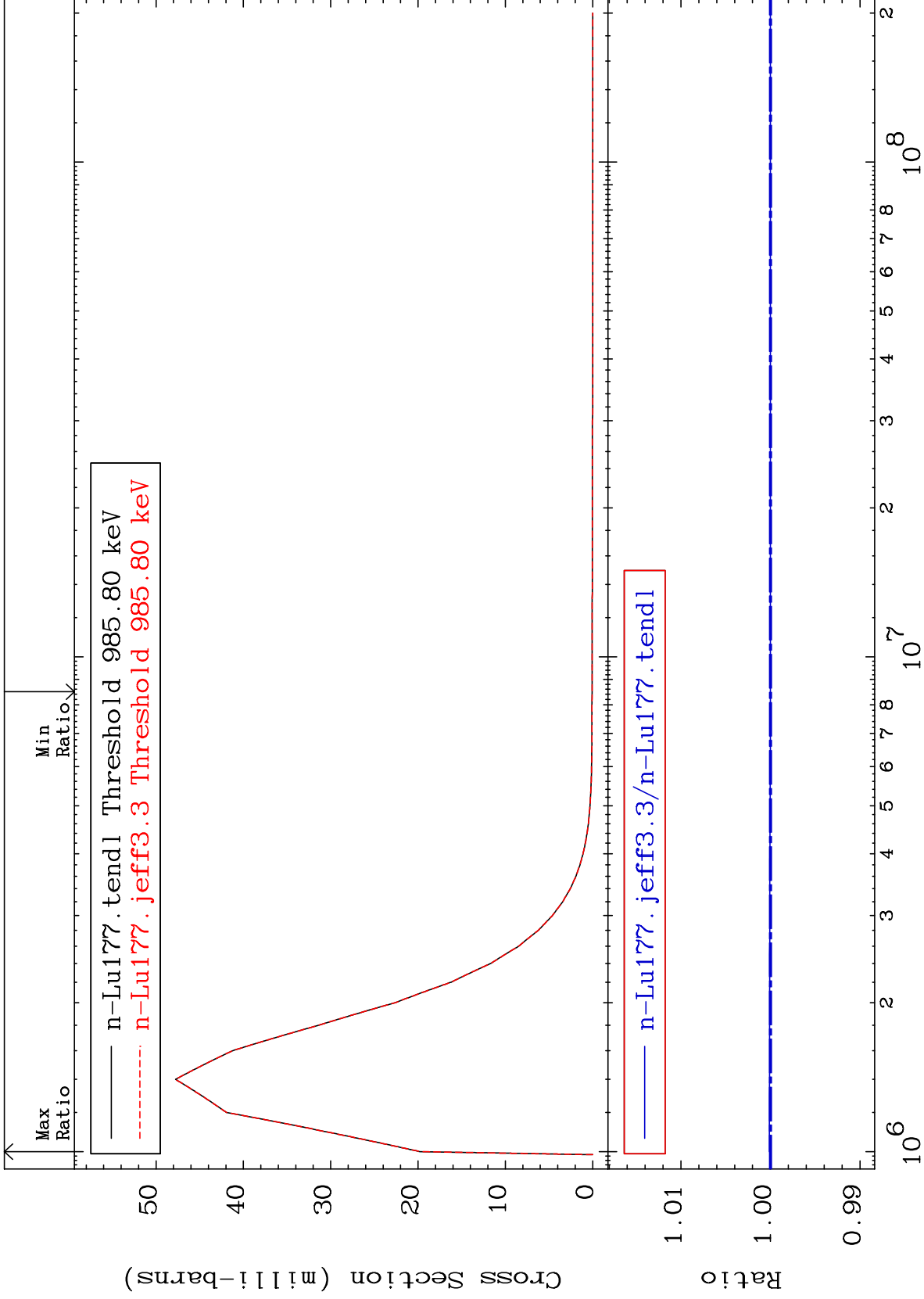
Incident Energy (eV)

71-Lu-177

MAT 7131

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

71-Lu-177
0.000 To 0.013 %



49

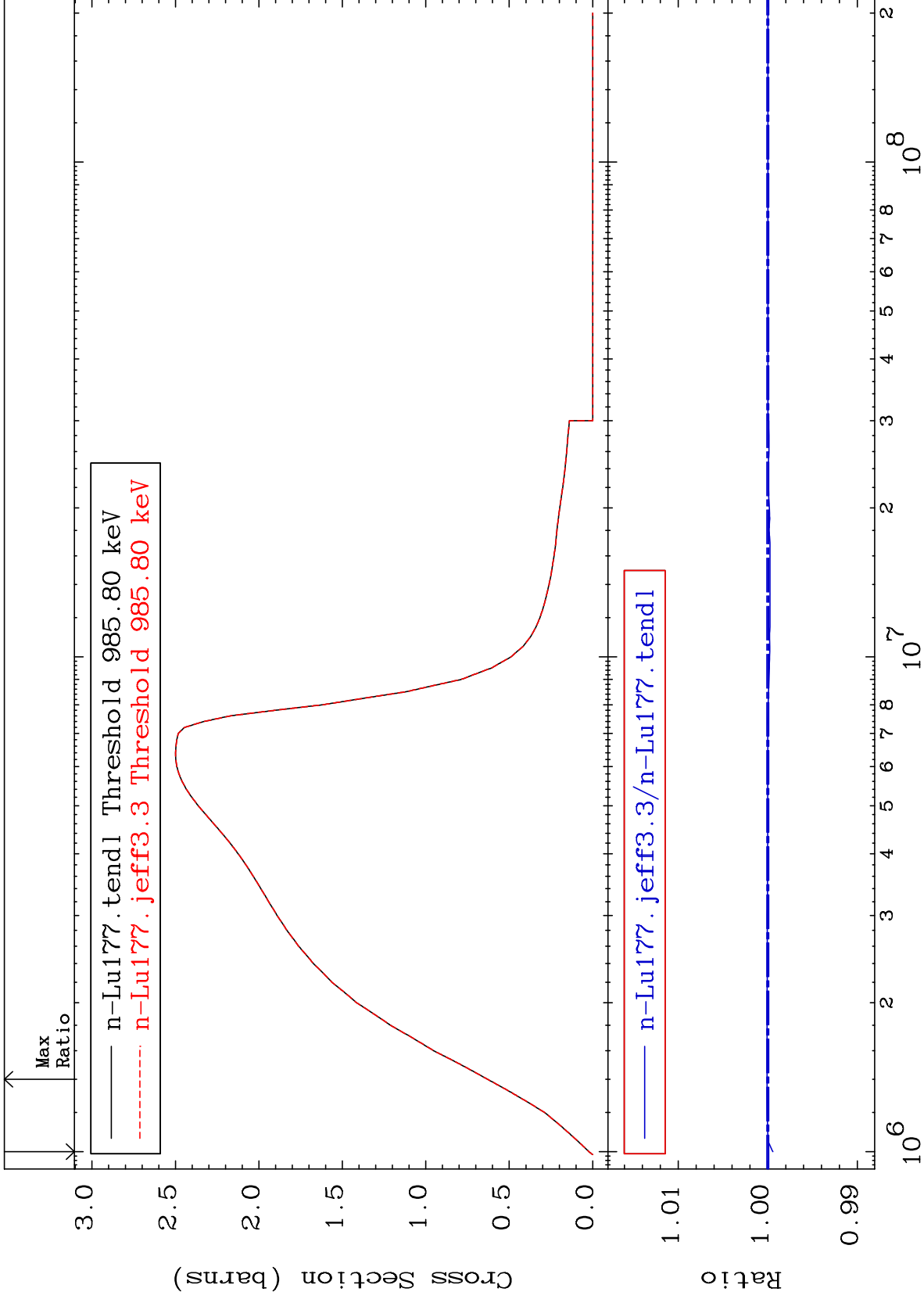
Incident Energy (eV)

71-Lu-177

MAT 7131

(n, n') Continuum
Cross Section

71-Lu-177
-0.056 To 0.009 %



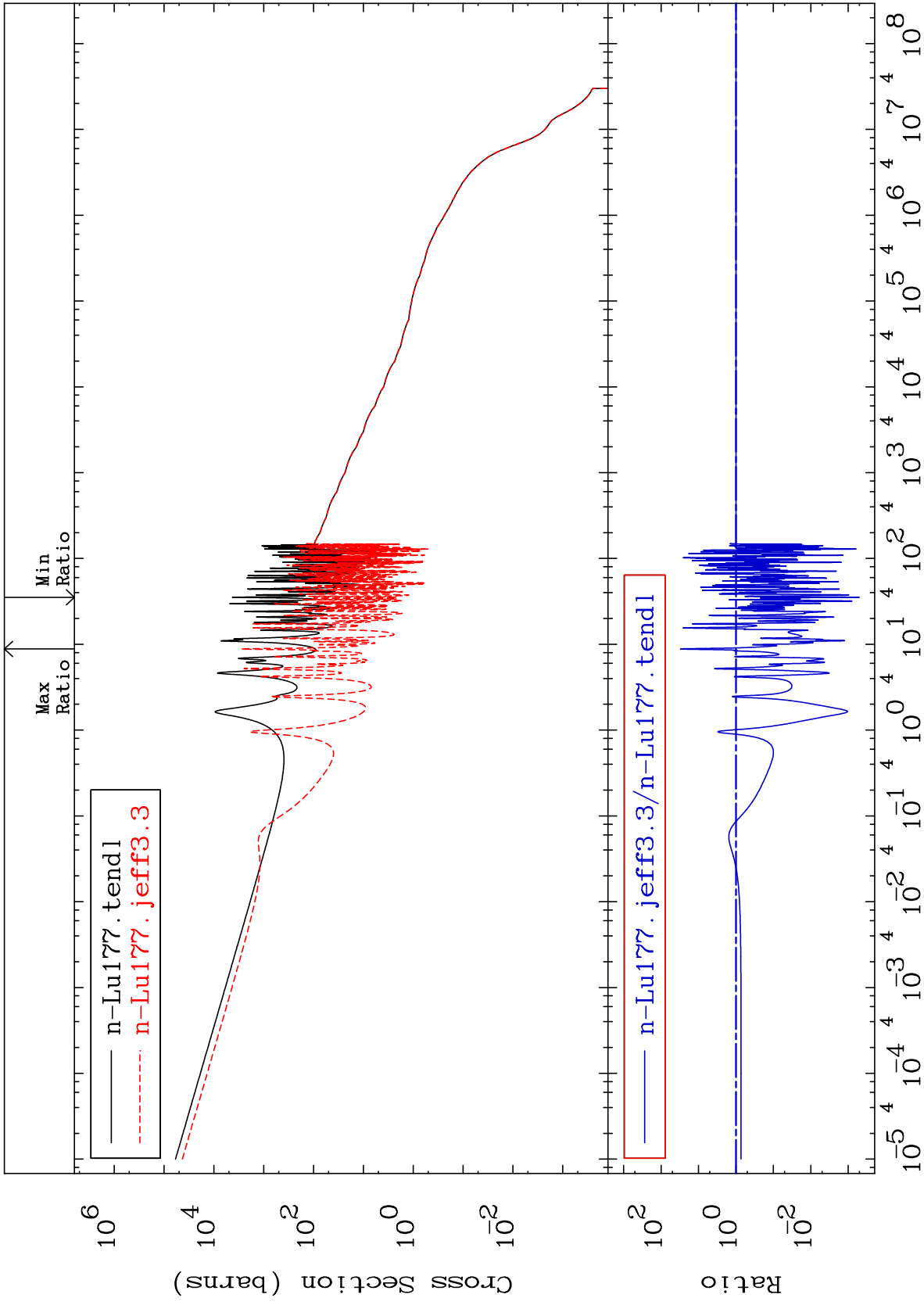
71-Lu-177

50

MAT 7131

(n, γ)
Cross Section

71-Lu-177
-99.95 To 2956. %



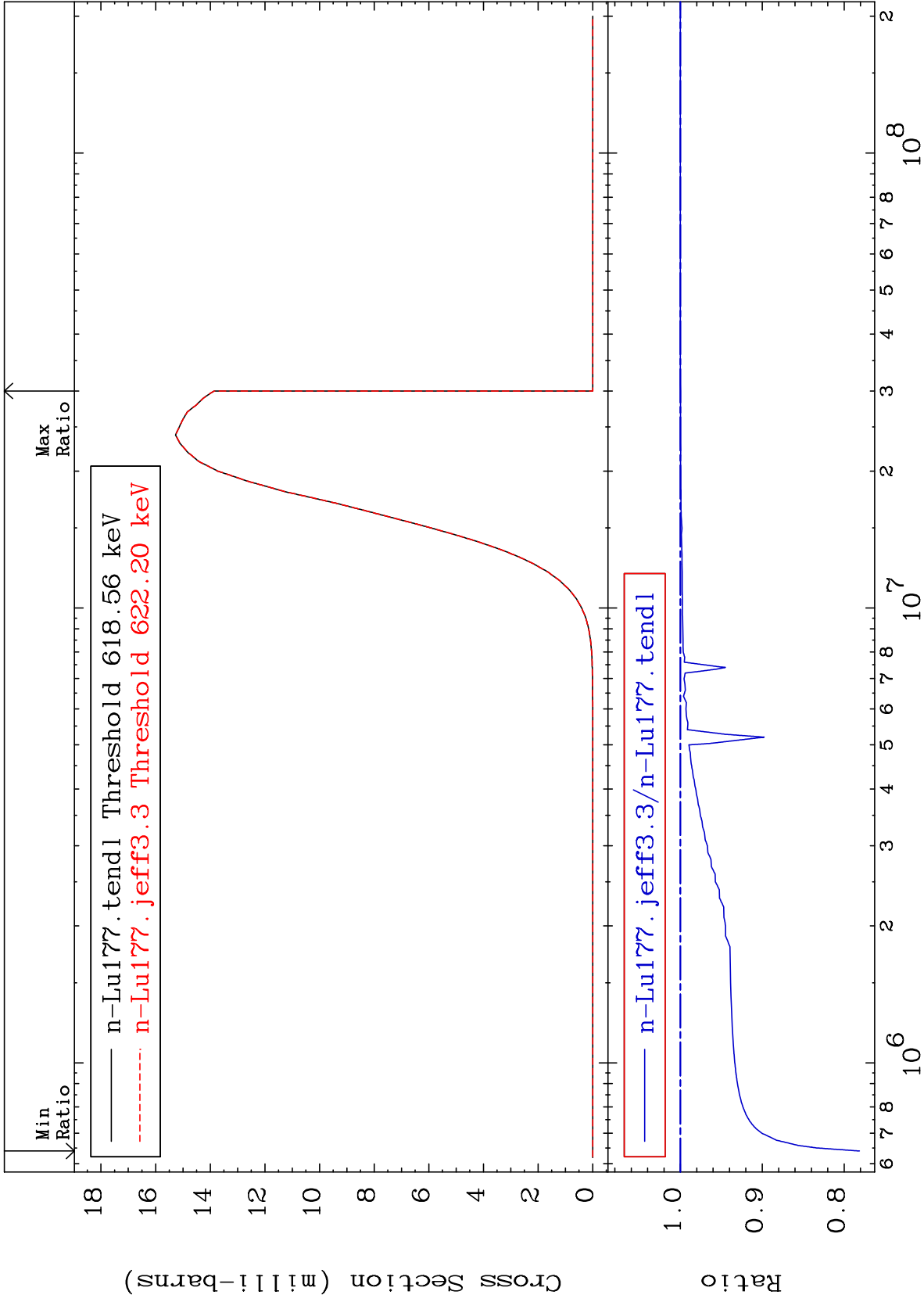
MAT 7131

(n,p)

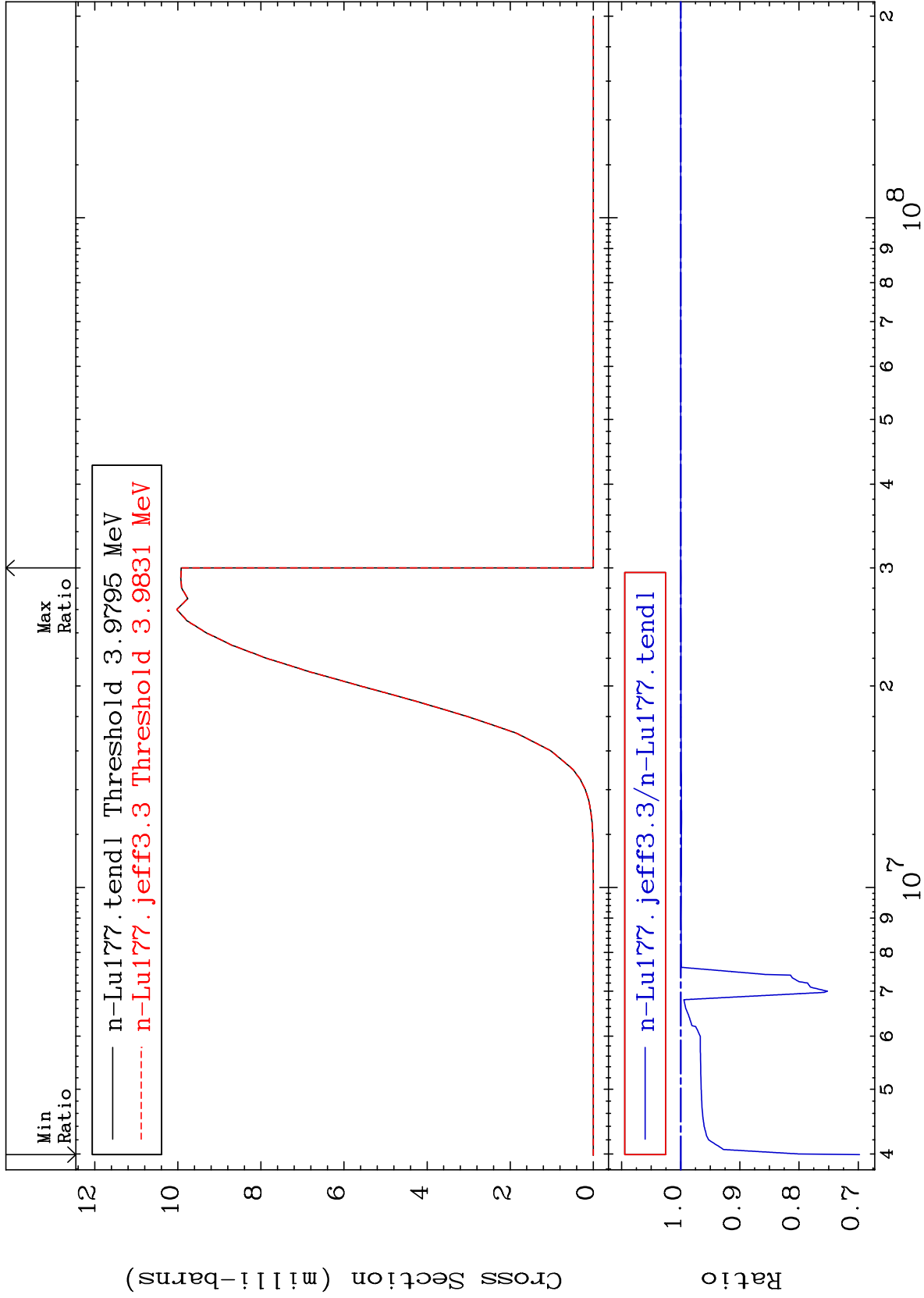
⁷¹Lu-177

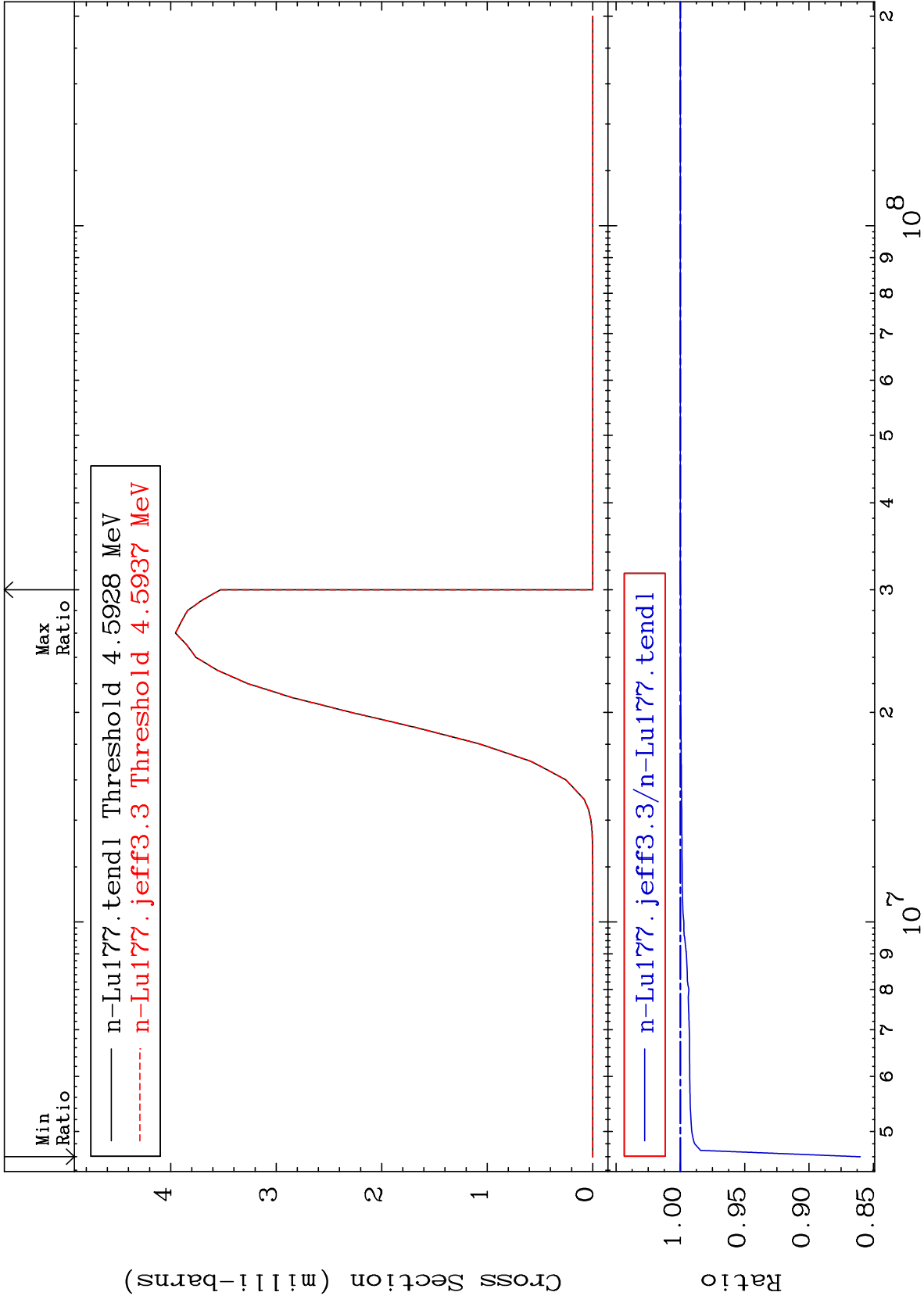
Cross Section

-21.86 To 0.000 %

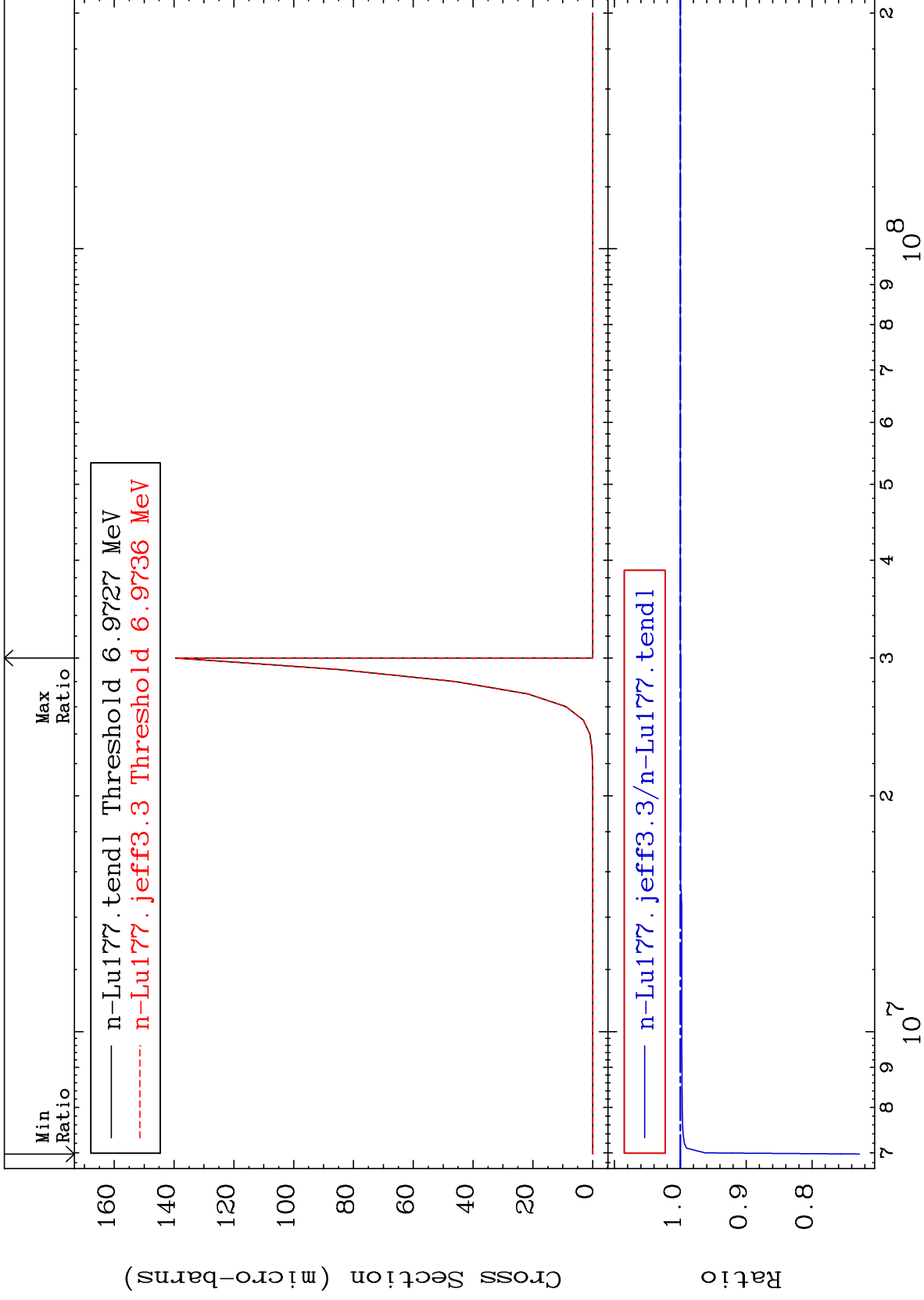


(n, d)
Cross Section
-30.23 To 0.000 %





Cross Section



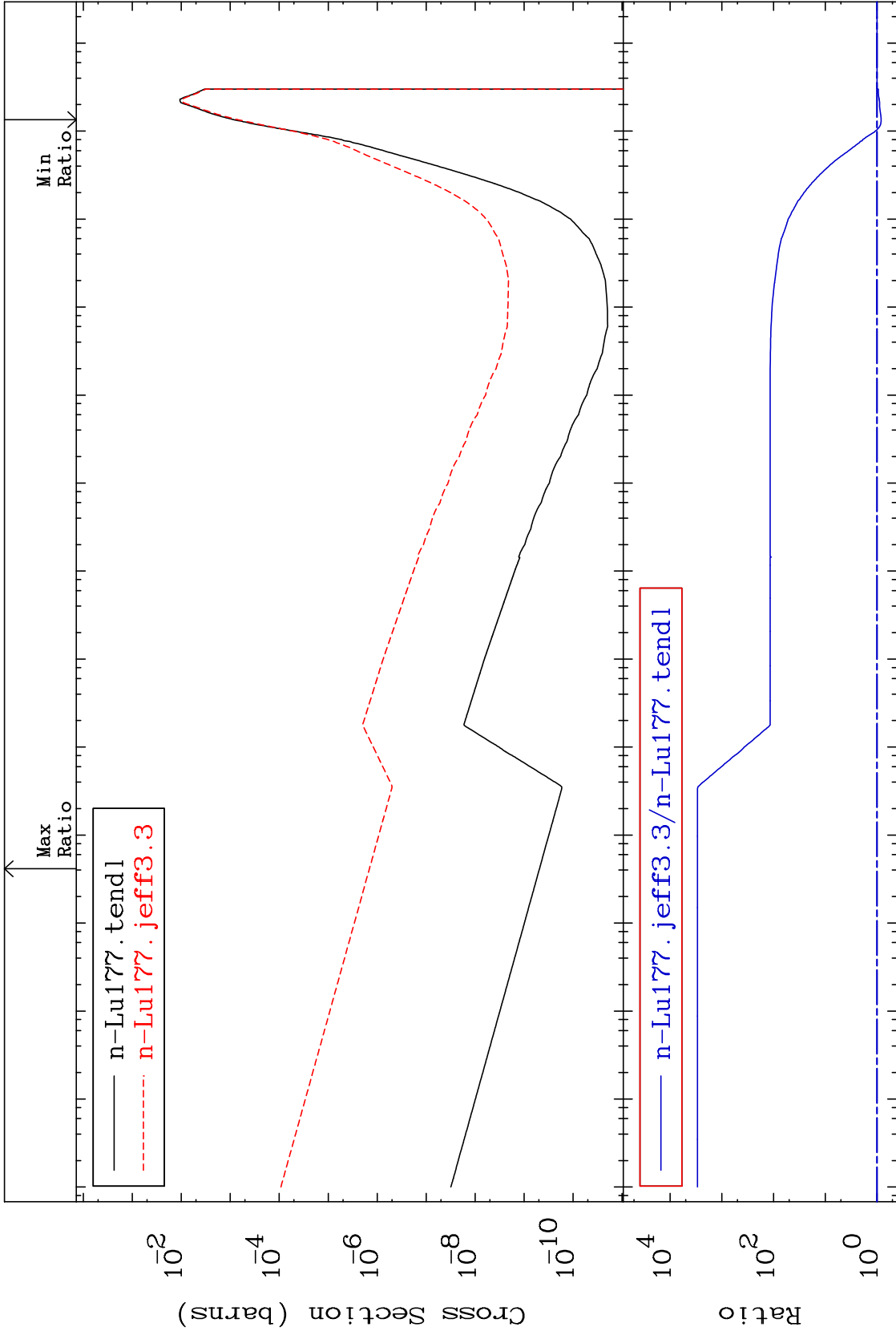
MAT 7131

(n, α)

71-Lu-177

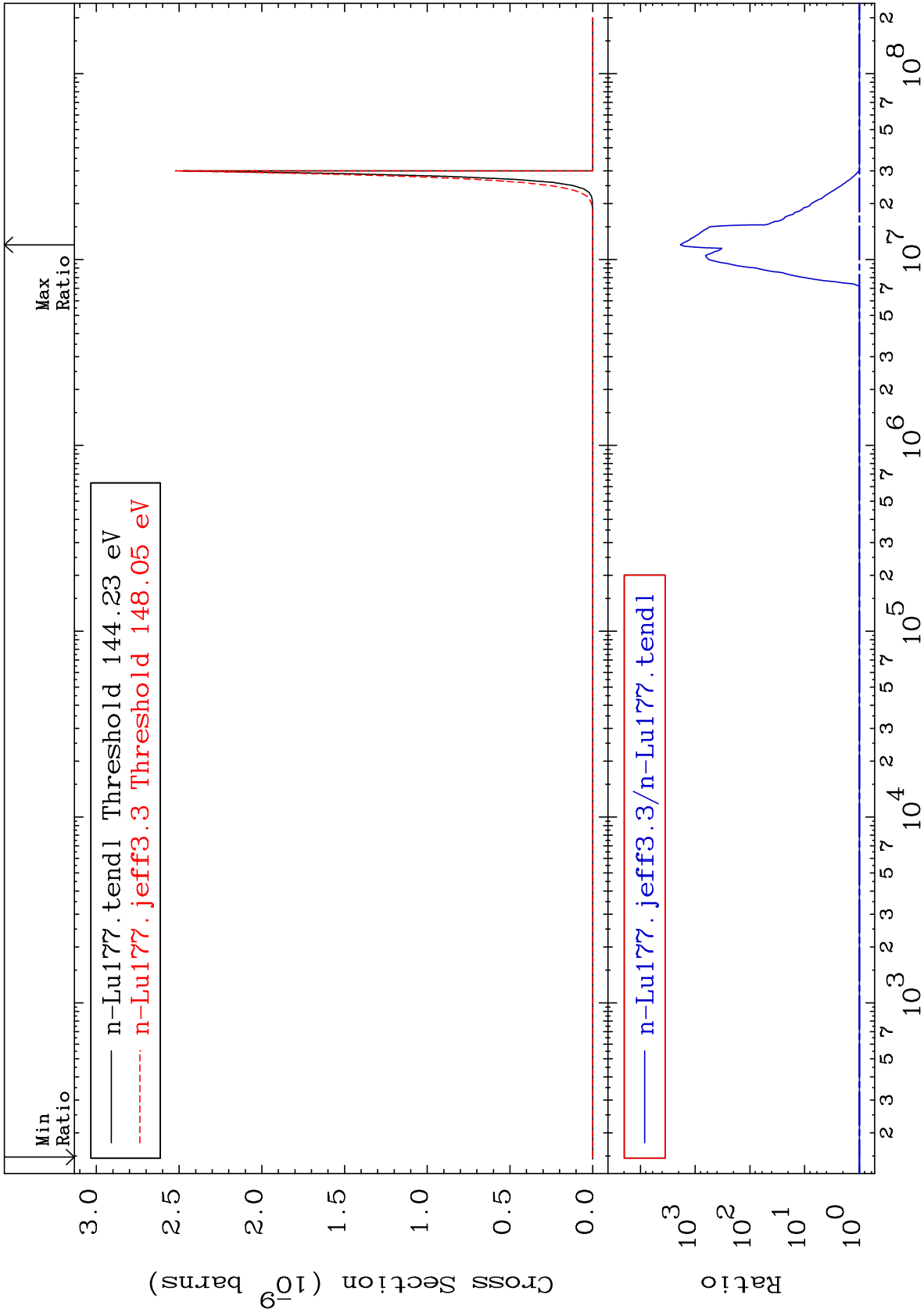
Cross Section

-16.92 To 9999. %



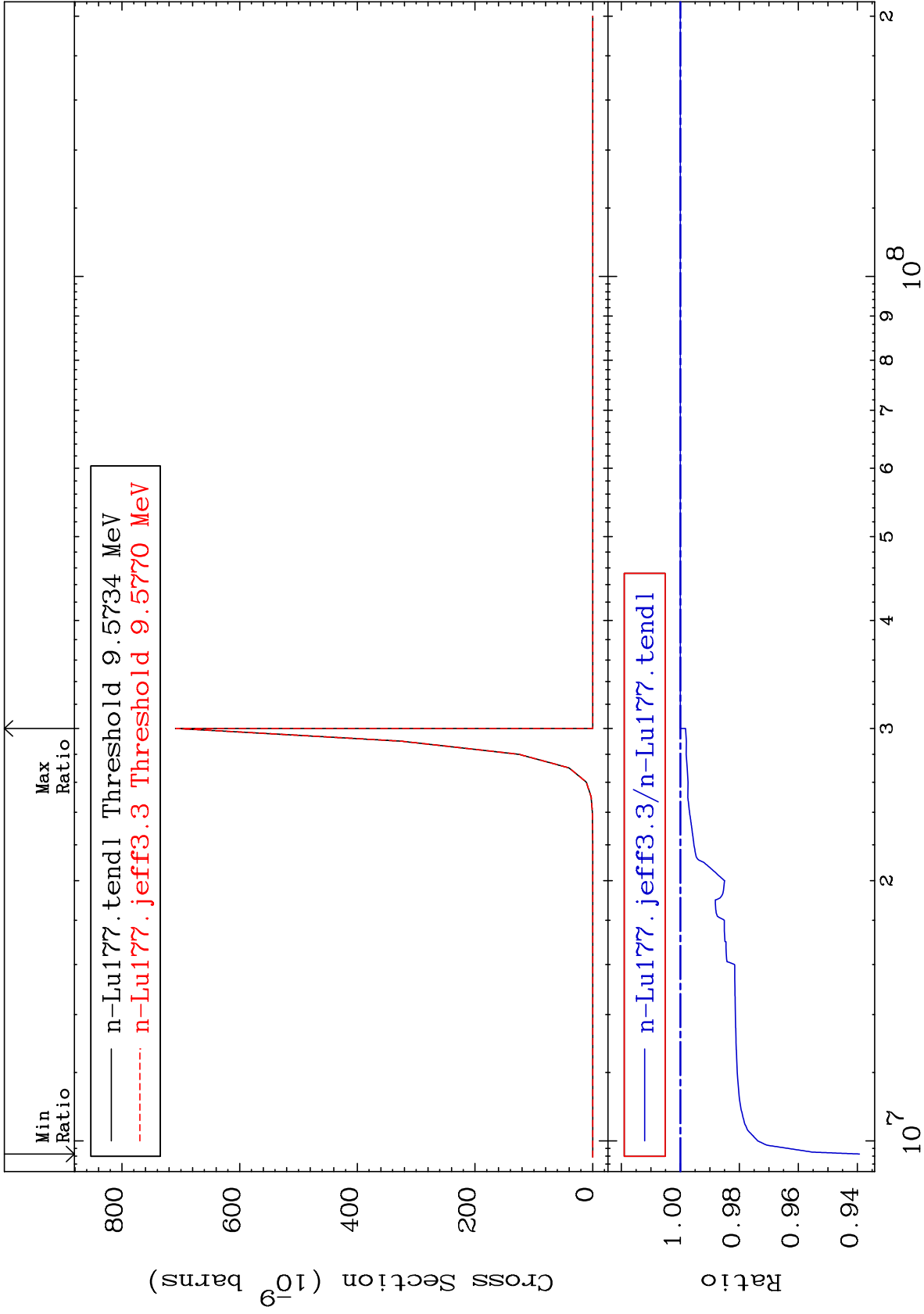
Cross Section

0.000 To 9999. %



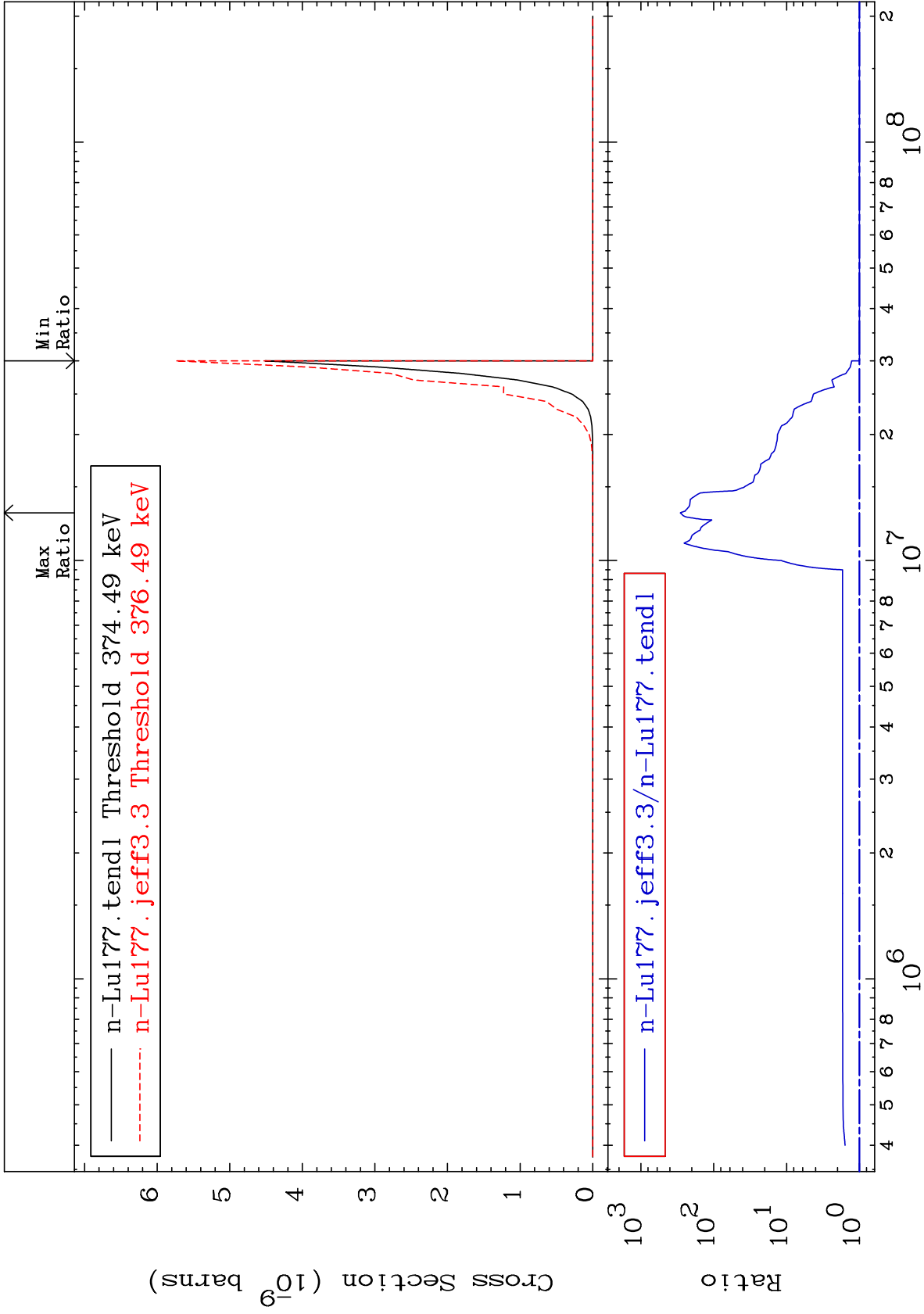
Cross Section

-6.070 To 0.000 %



MAT 7131

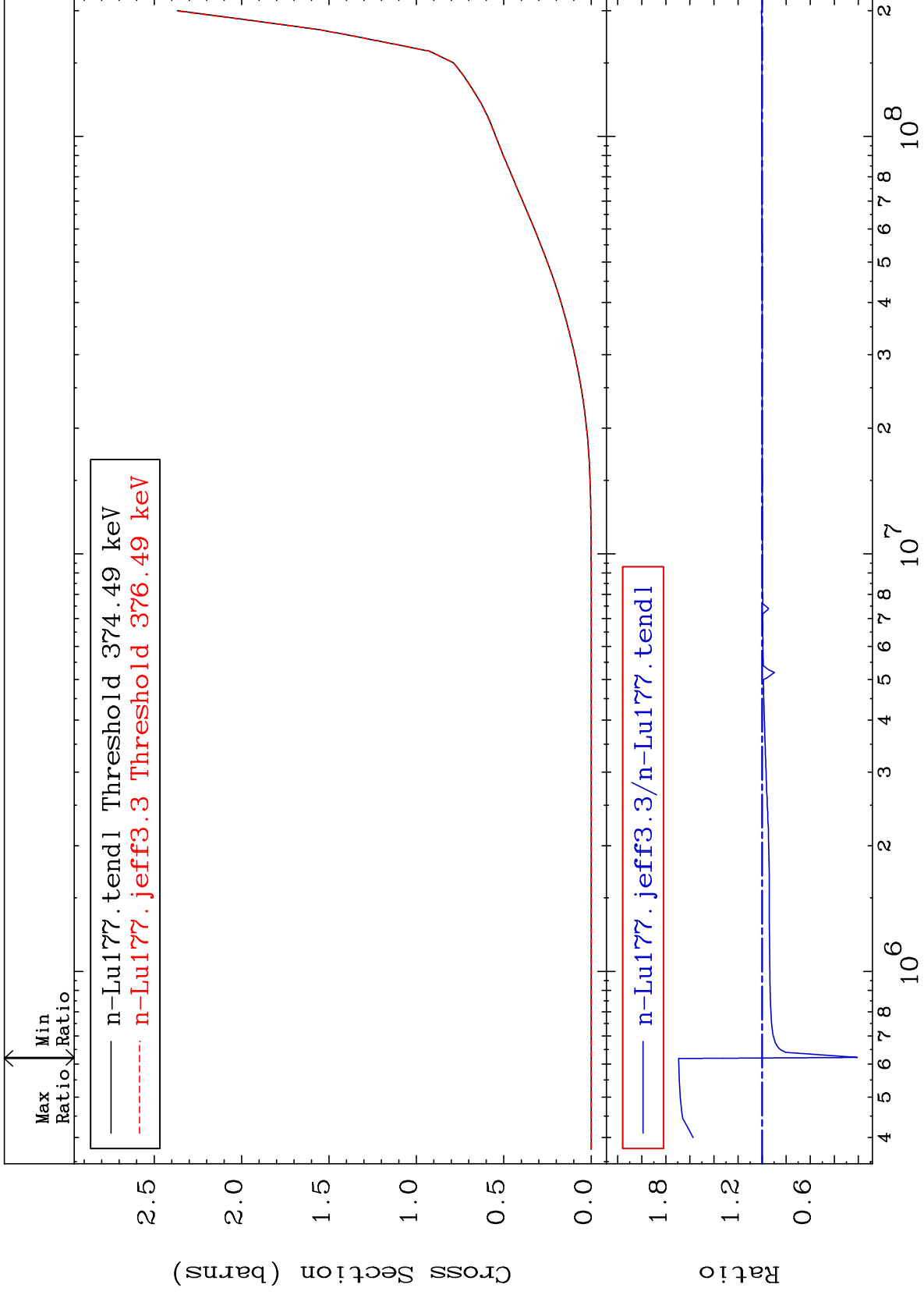
(n, p) α
Cross Section
71-Lu-177
To 9999. %
0.000



MAT 7131

Hydrogen Production
Cross Section

⁷¹-Lu-177
-79.06 To 69.36 %



60

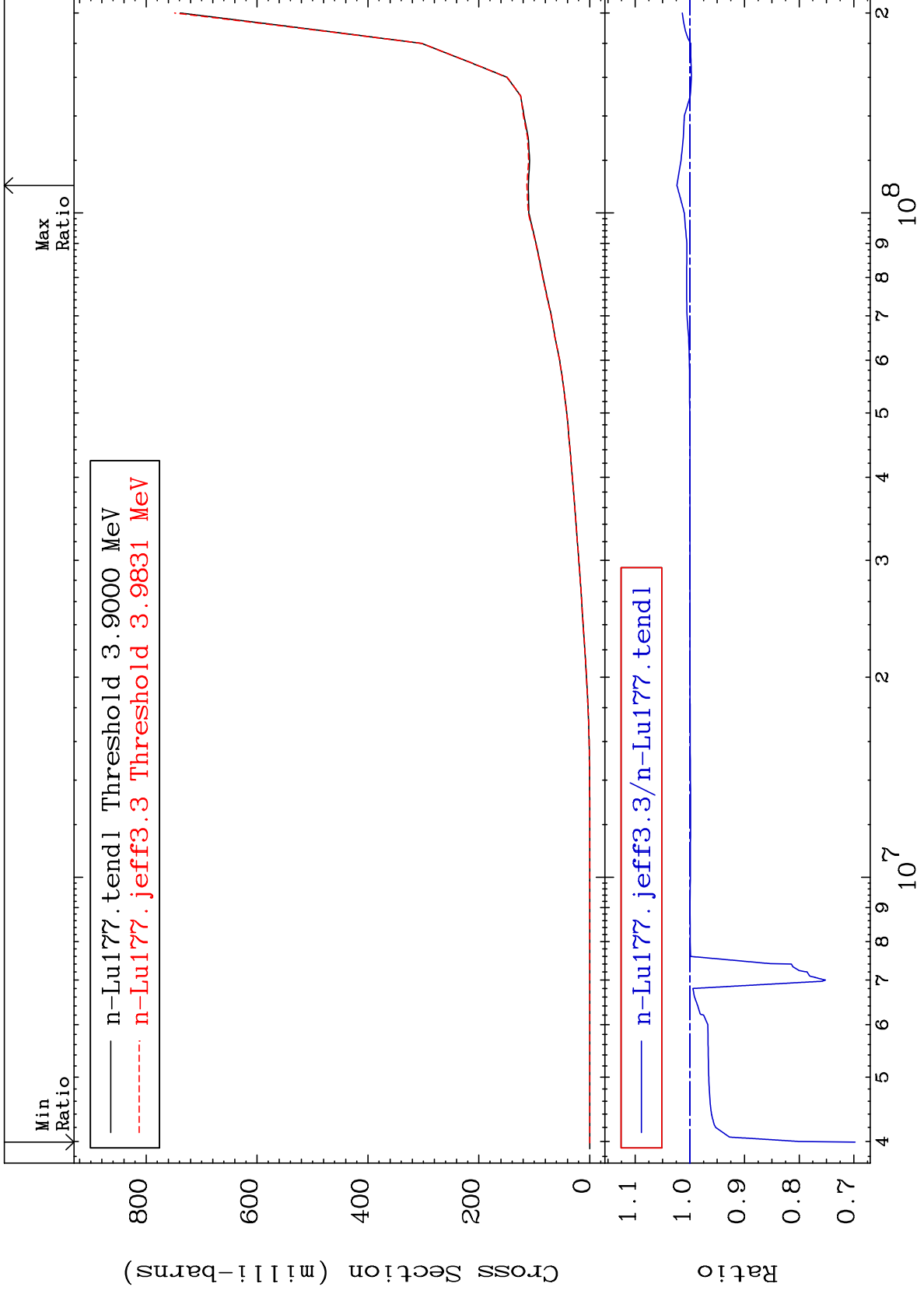
Incident Energy (eV)

⁷¹-Lu-177

MAT 7131

Deuterium Production
Cross Section

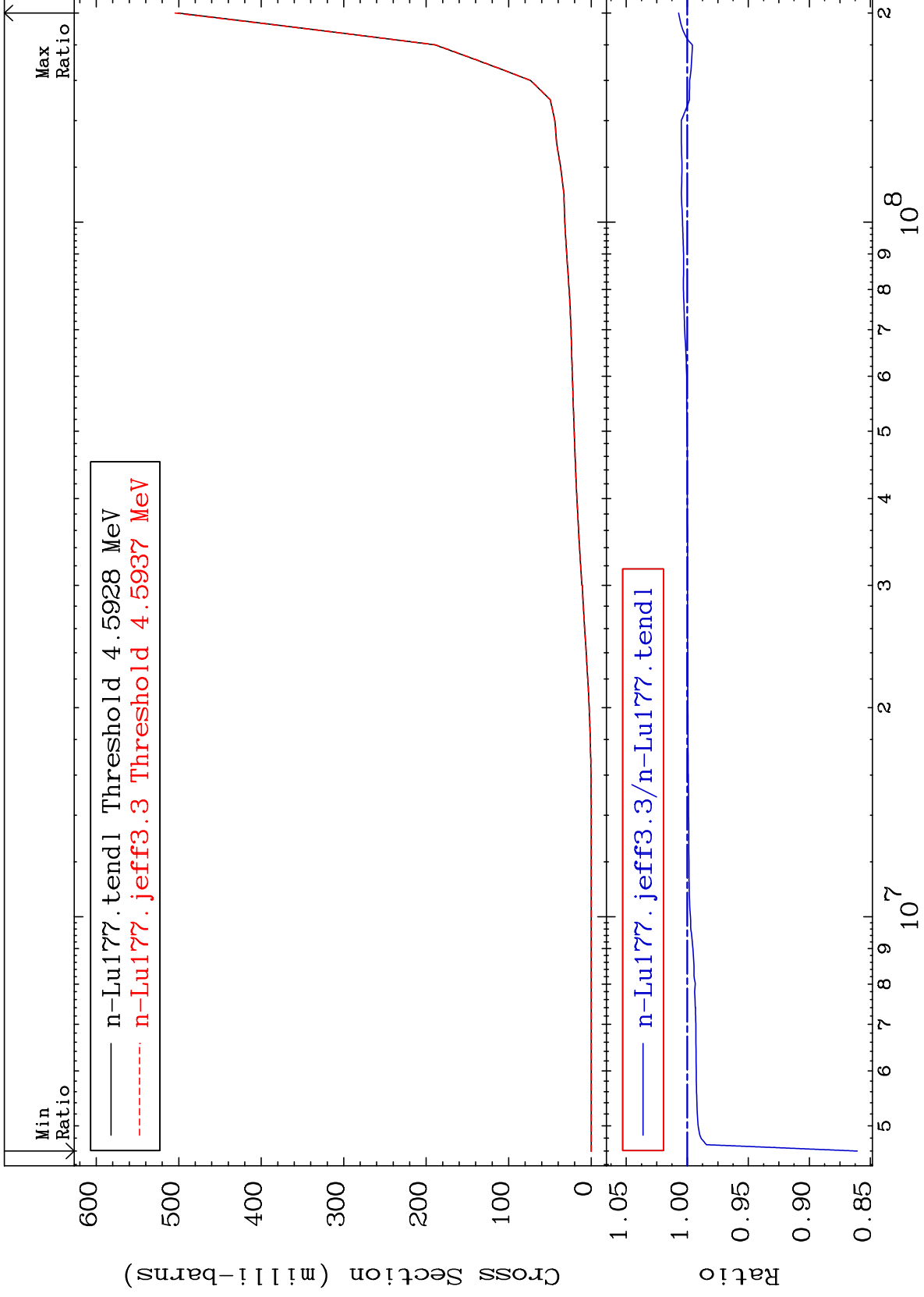
71-Lu-177
-30.23 To 2.373 %



MAT 7131

Tritium Production
Cross Section

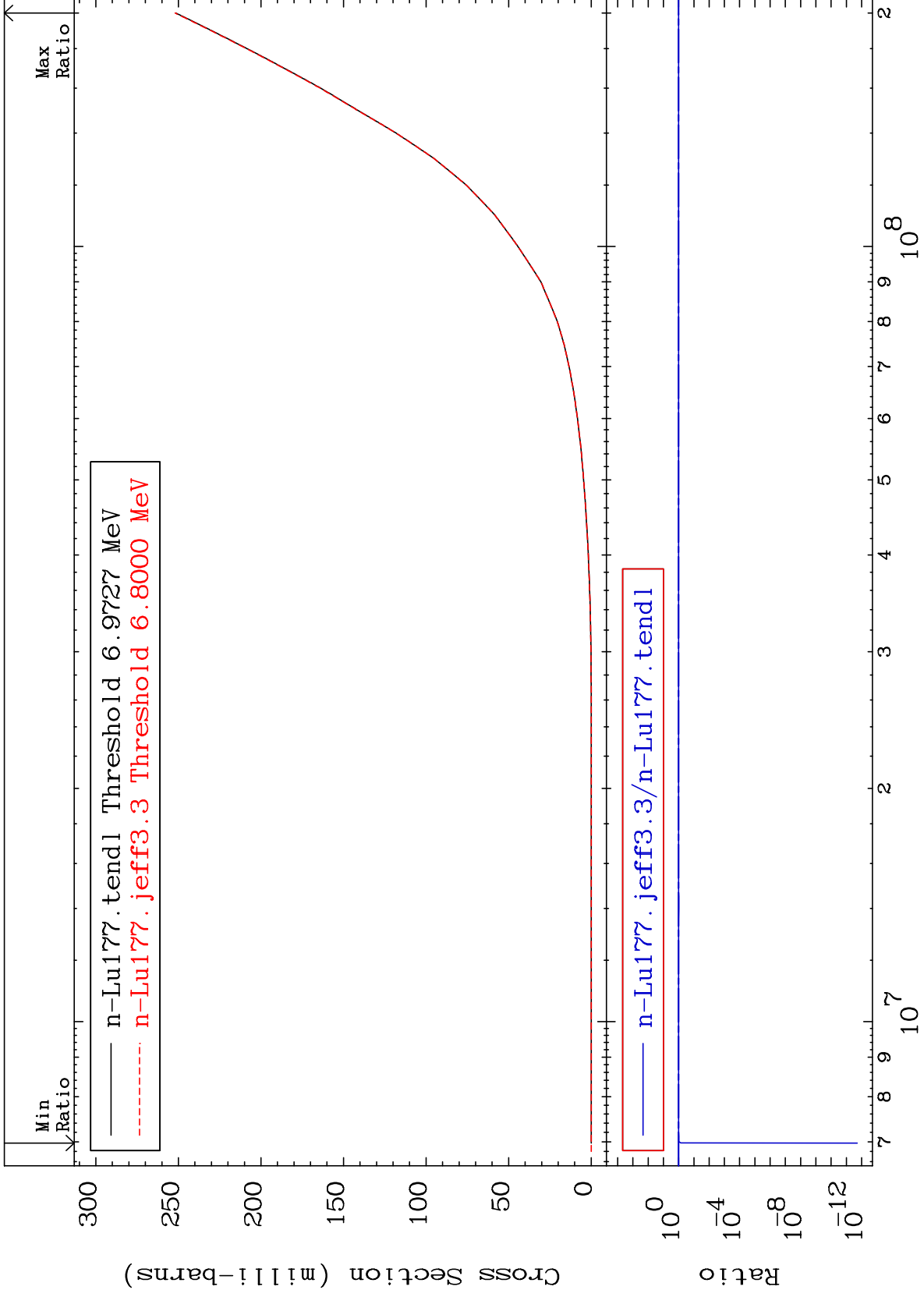
71-Lu-177
-13.92 To 0.709 %



MAT 7131

He-3 Production
Cross Section

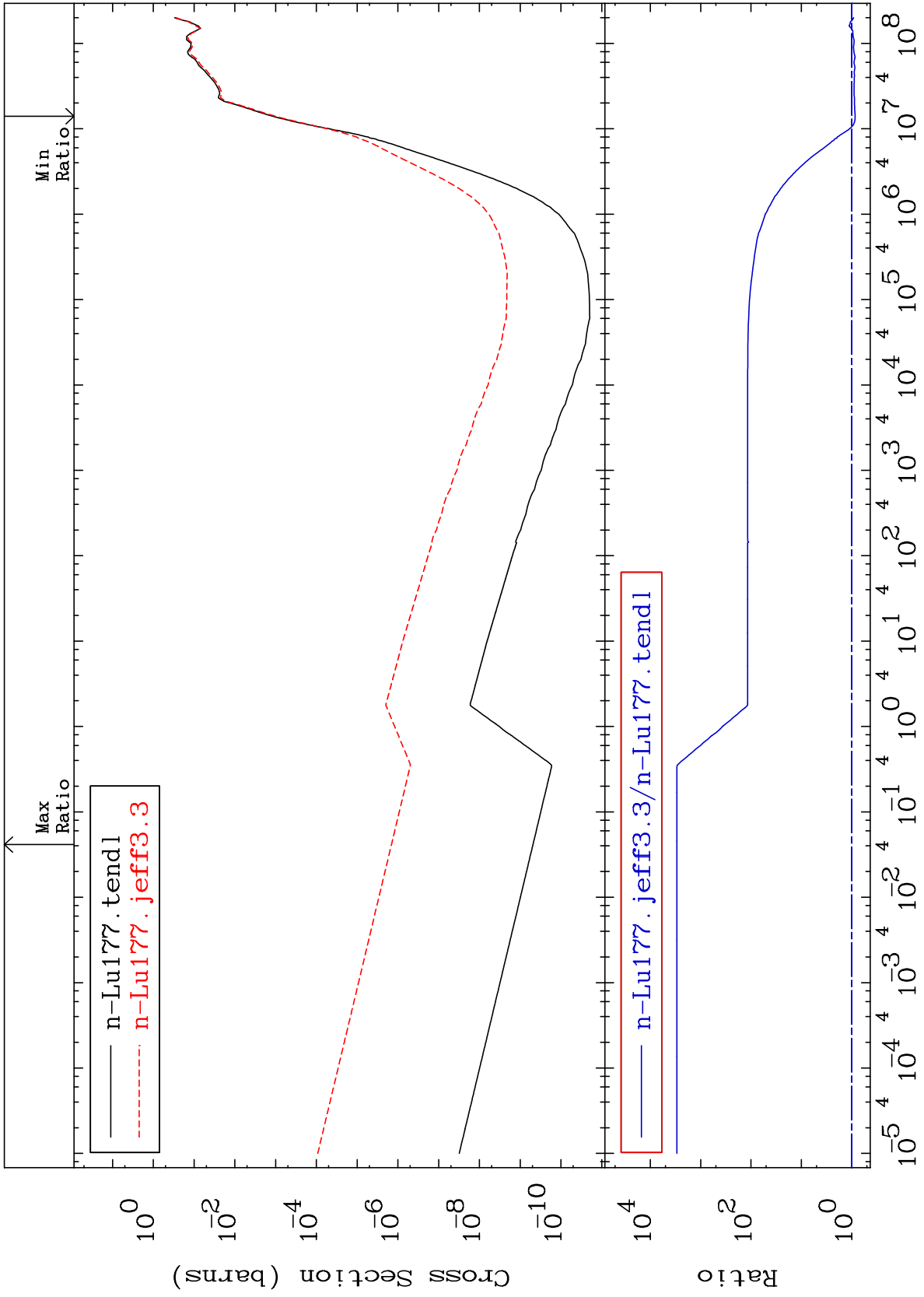
71-Lu-177
-100.0 To 0.185 %



MAT 7131

He-4 Production
Cross Section

71-Lu-177
-14.42 To 9999. %



64

Incident Energy (eV)

71-Lu-177

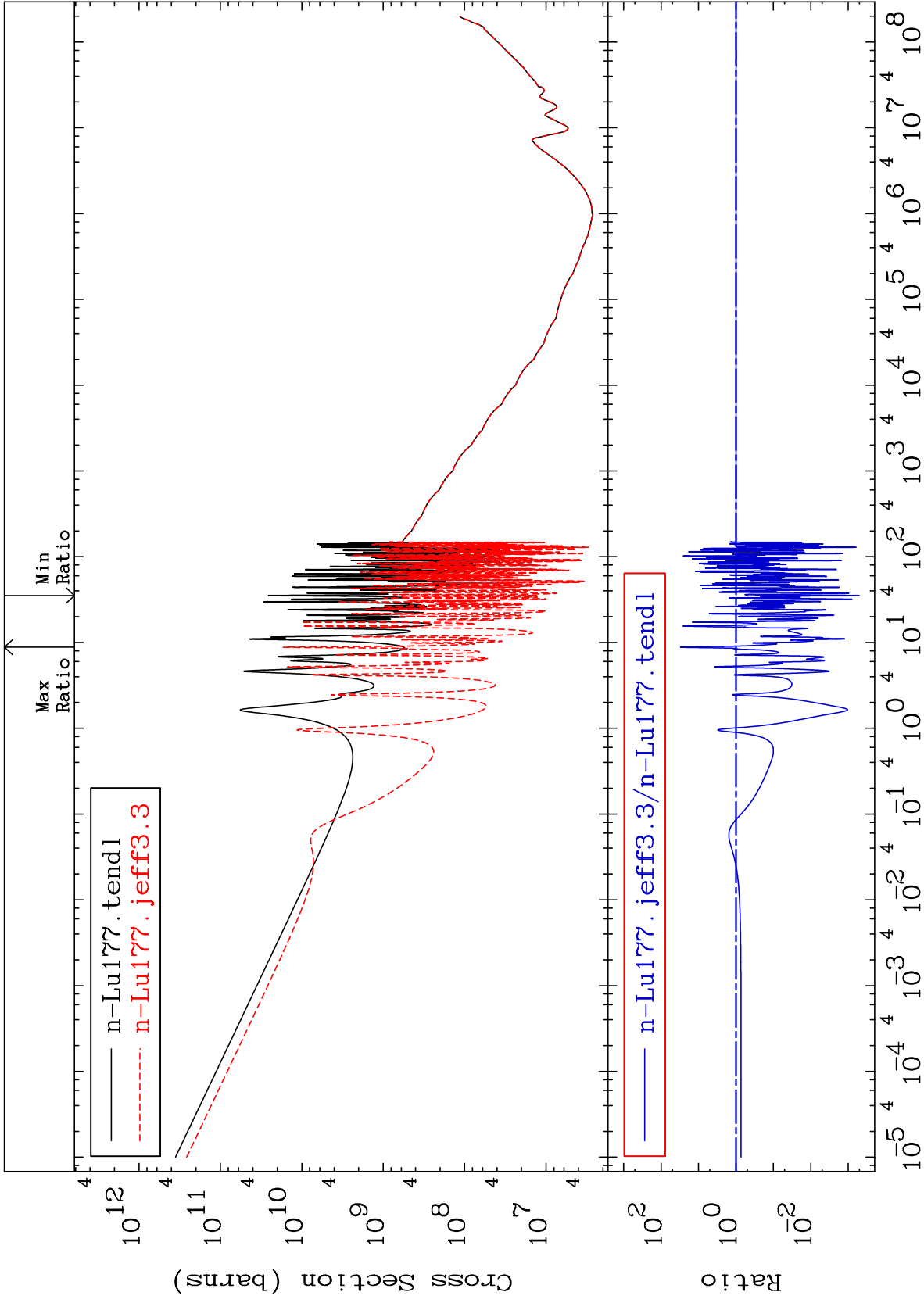
MAT 7131

Kerma total (eV-barns)

71-Lu-177

-99.95 To 2956. %

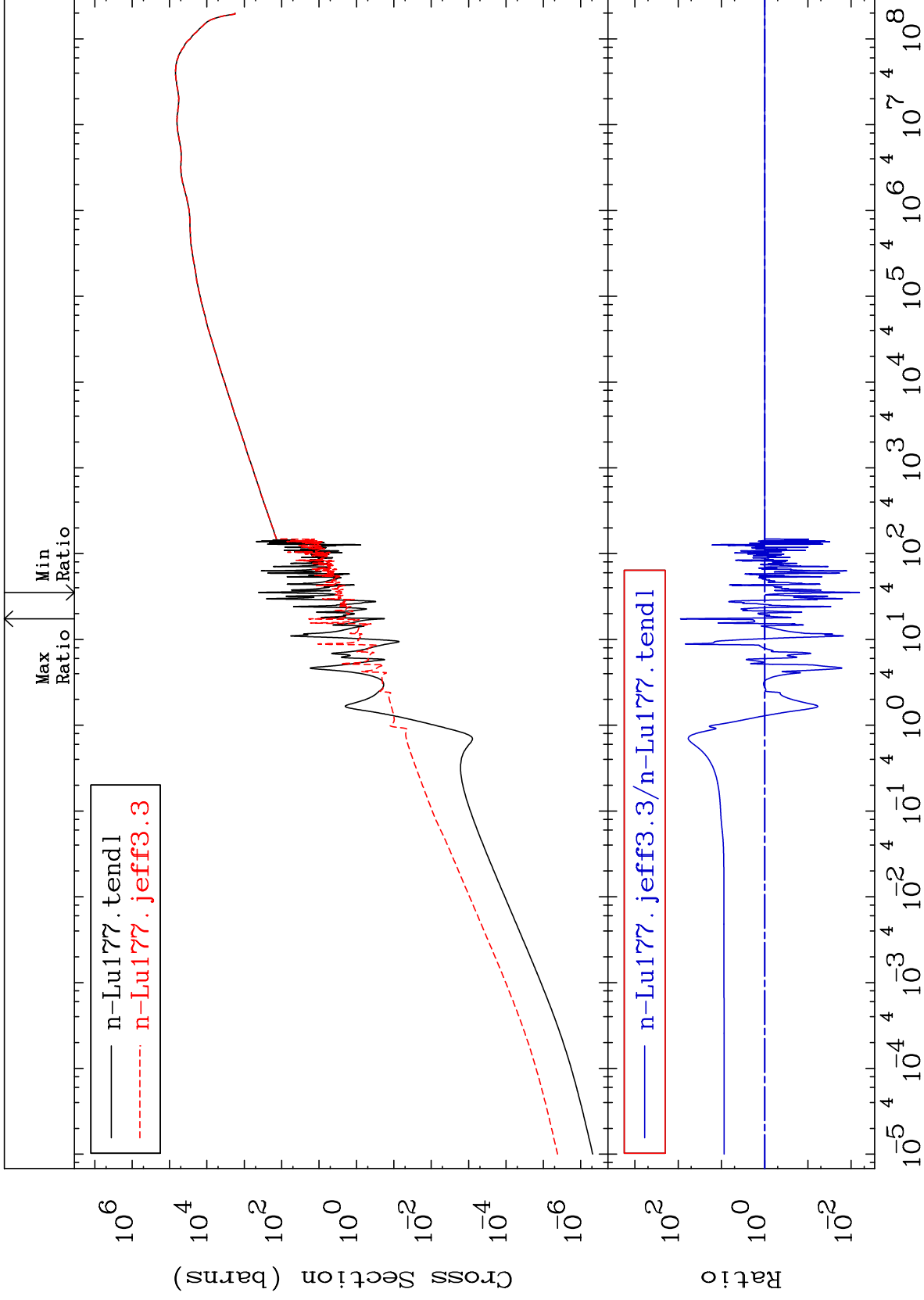
Cross Section



MAT 7131

Kerma elastic
Cross Section

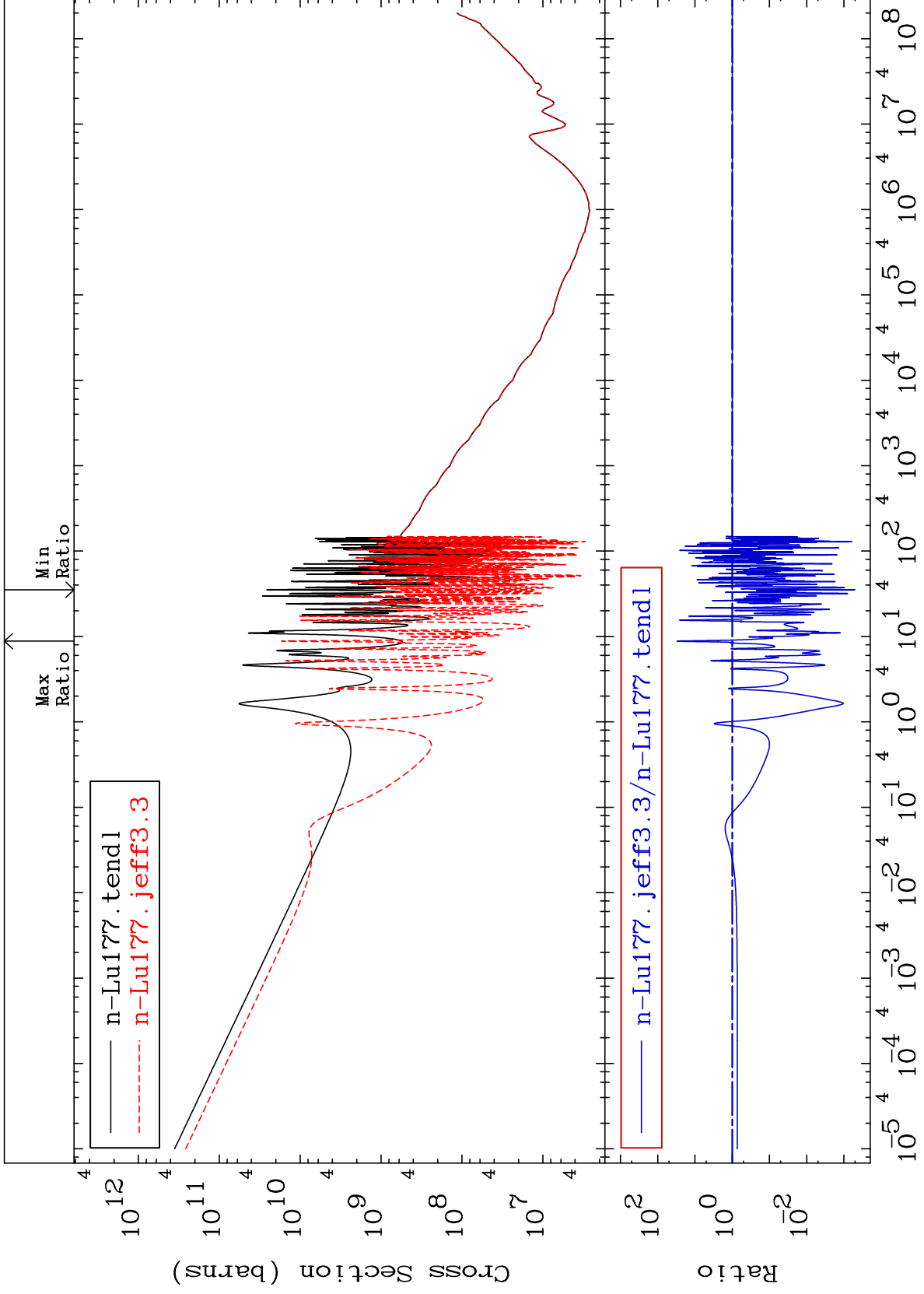
71-Lu-177
-99.36 To 8813. %

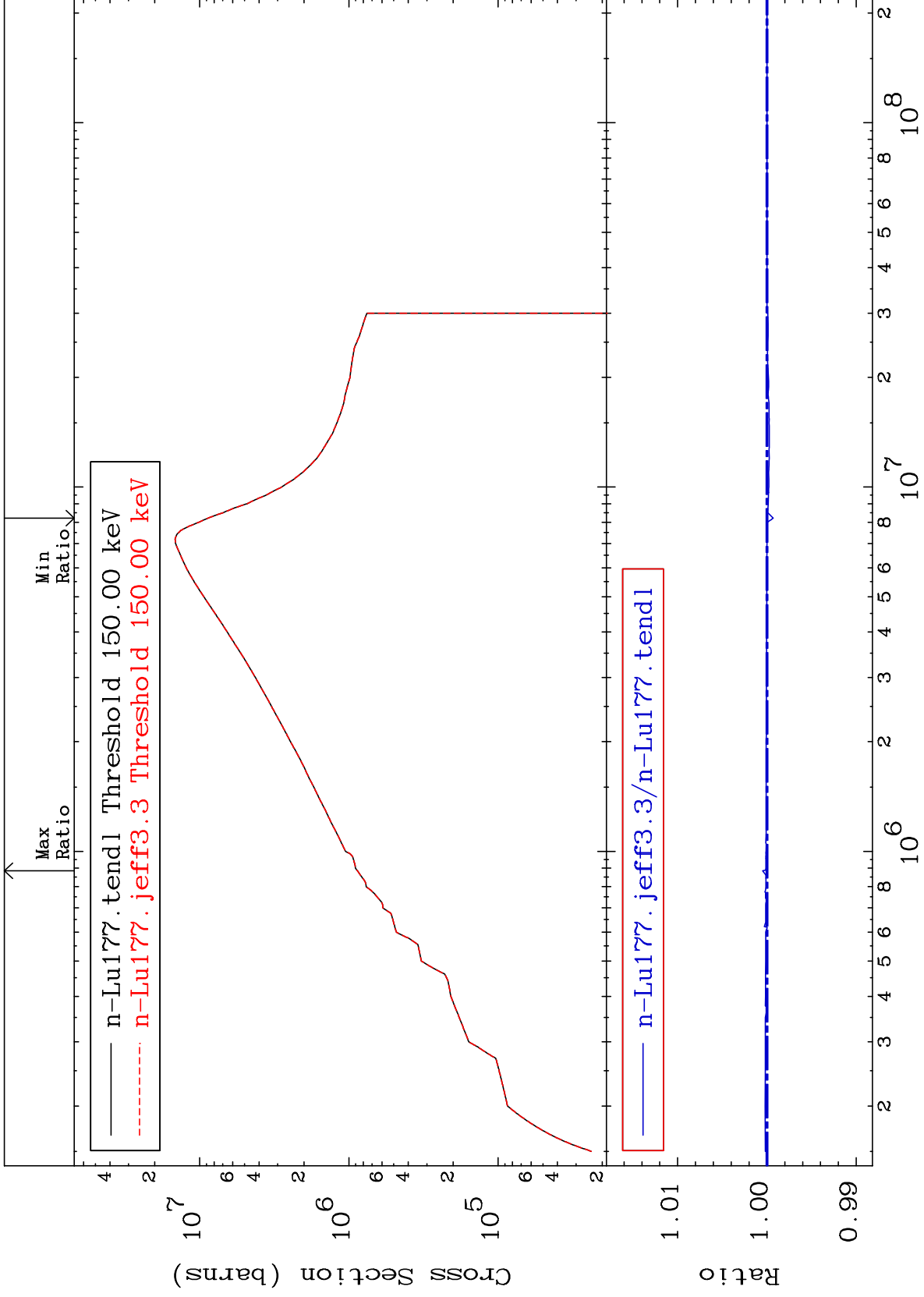


MAT 7131

Kerma non-elastic (all but mt2)
Cross Section

71-Lu-177
-99.95 To 2956. %

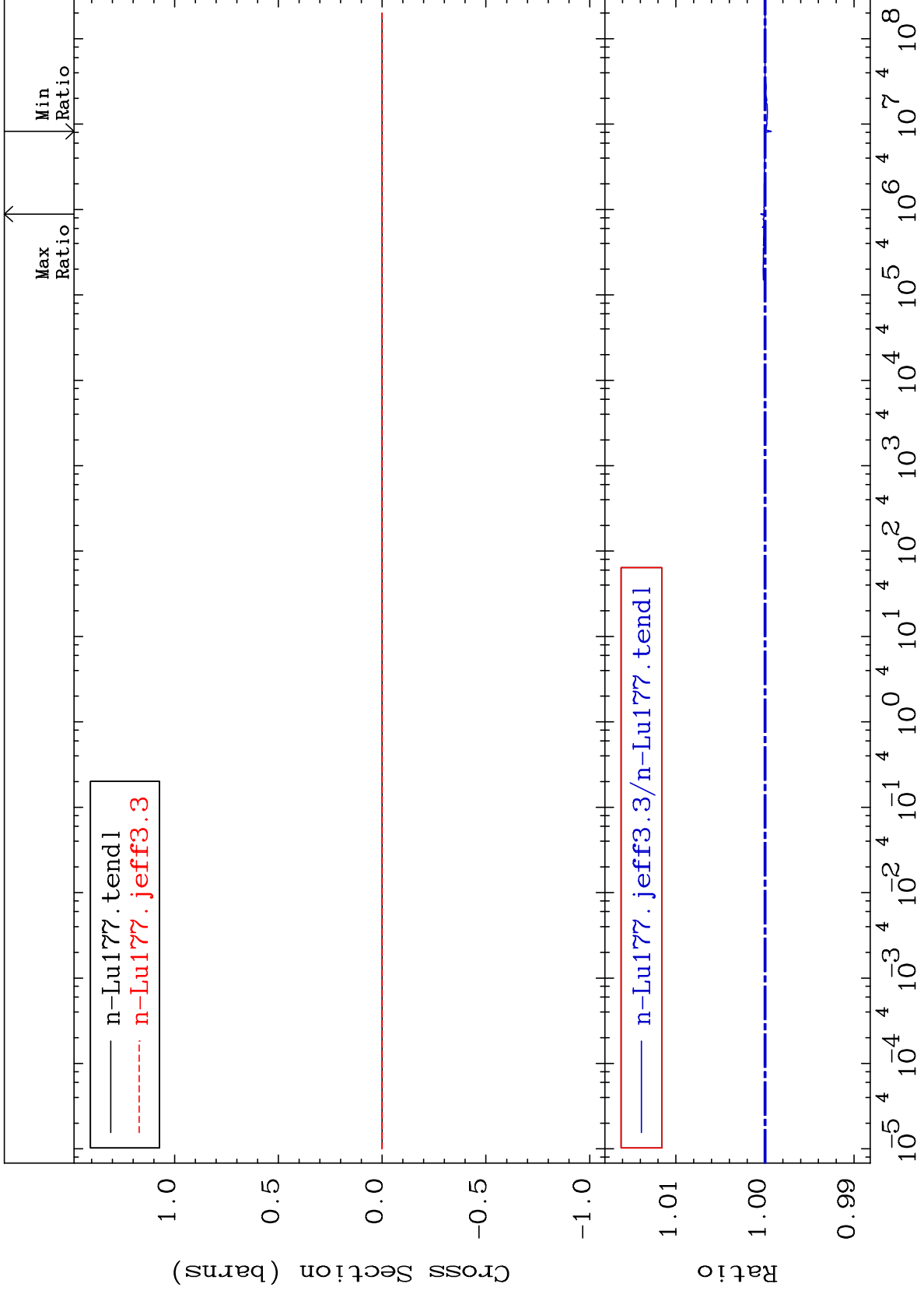




MAT 7131

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

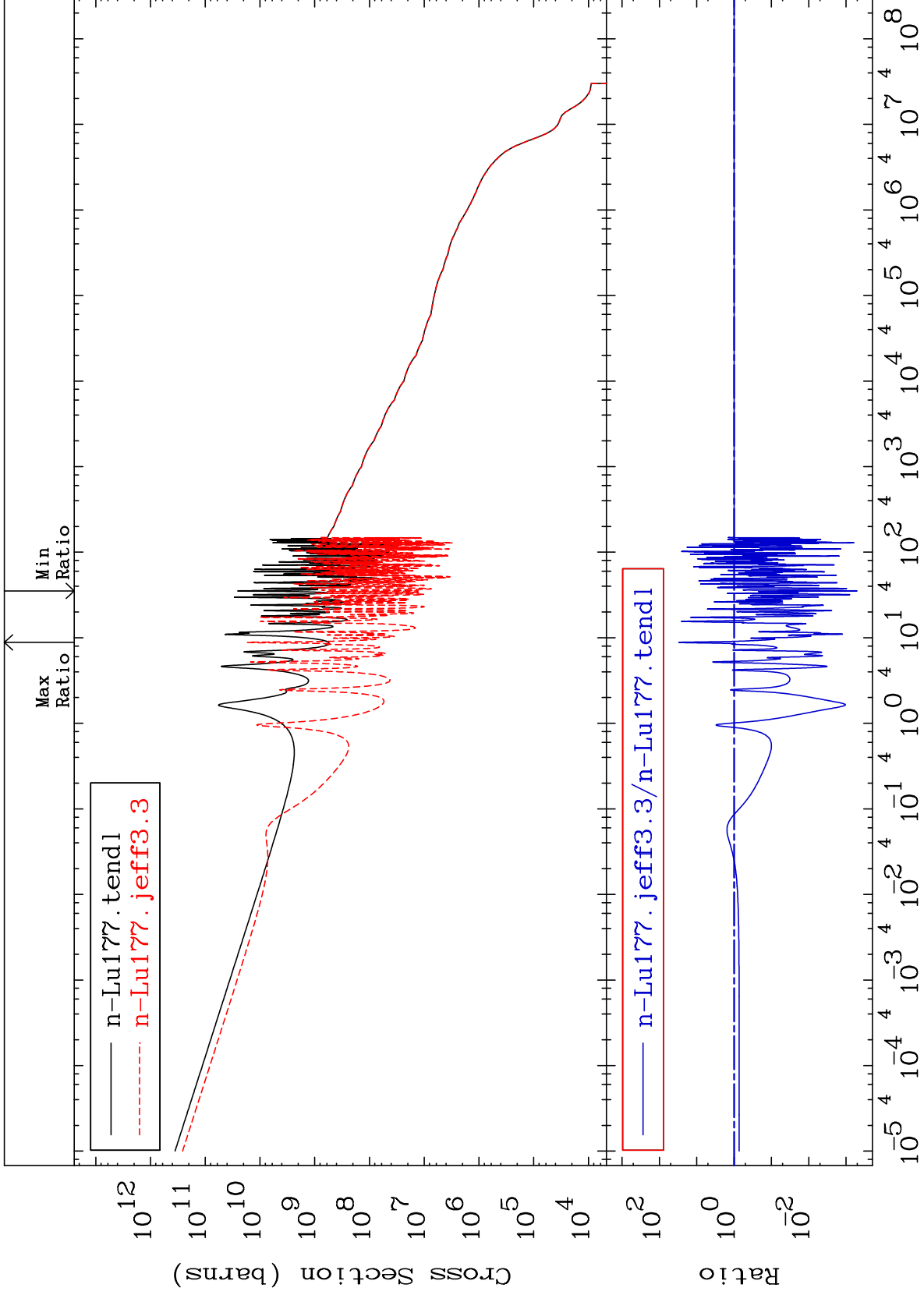
71-Lu-177
-0.071 To 0.049 %



MAT 7131

Kerma capture (mt102)
Cross Section

⁷¹-Lu-177
-99.95 To 2956. %



70

Incident Energy (eV)

⁷¹-Lu-177

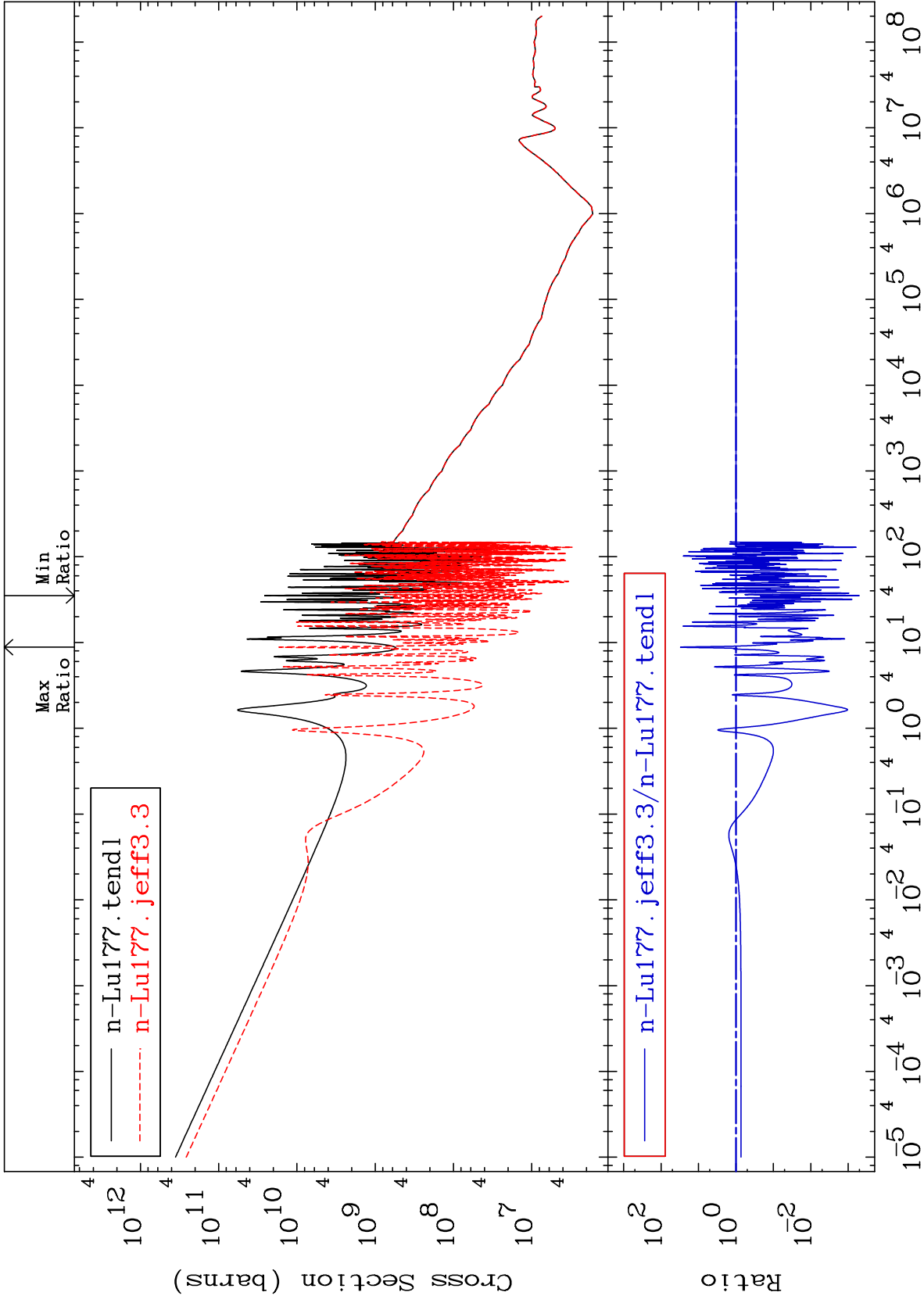
MAT 7131

Total photon (eV-barns)

71-Lu-177

Cross Section

-99.95 To 2956. %



71

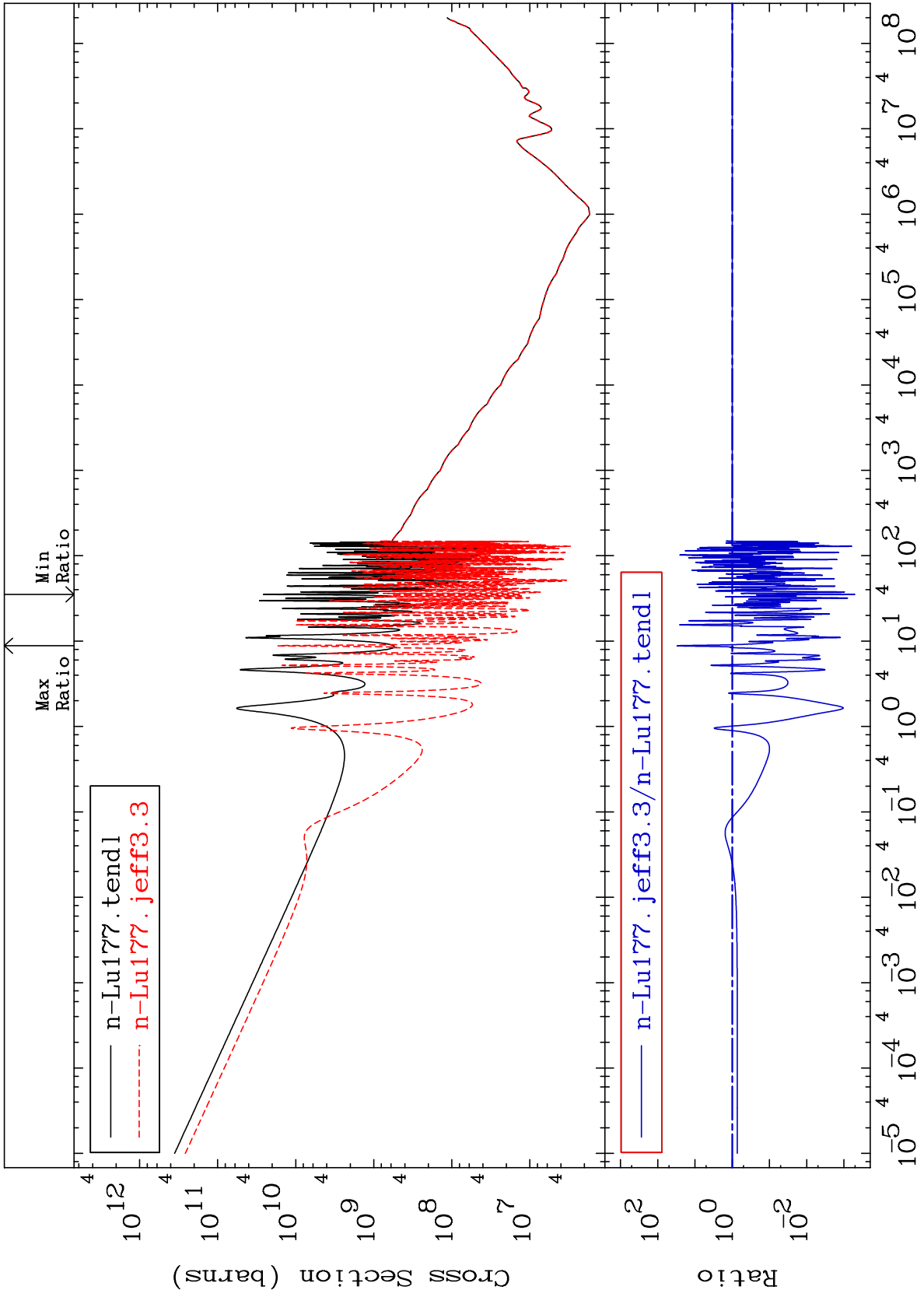
Incident Energy (eV)

71-Lu-177

MAT 7131

Total kinematic kerma (high limit)
Cross Section

71-Lu-177
-99.95 To 2956. %



72

Incident Energy (eV)

71-Lu-177

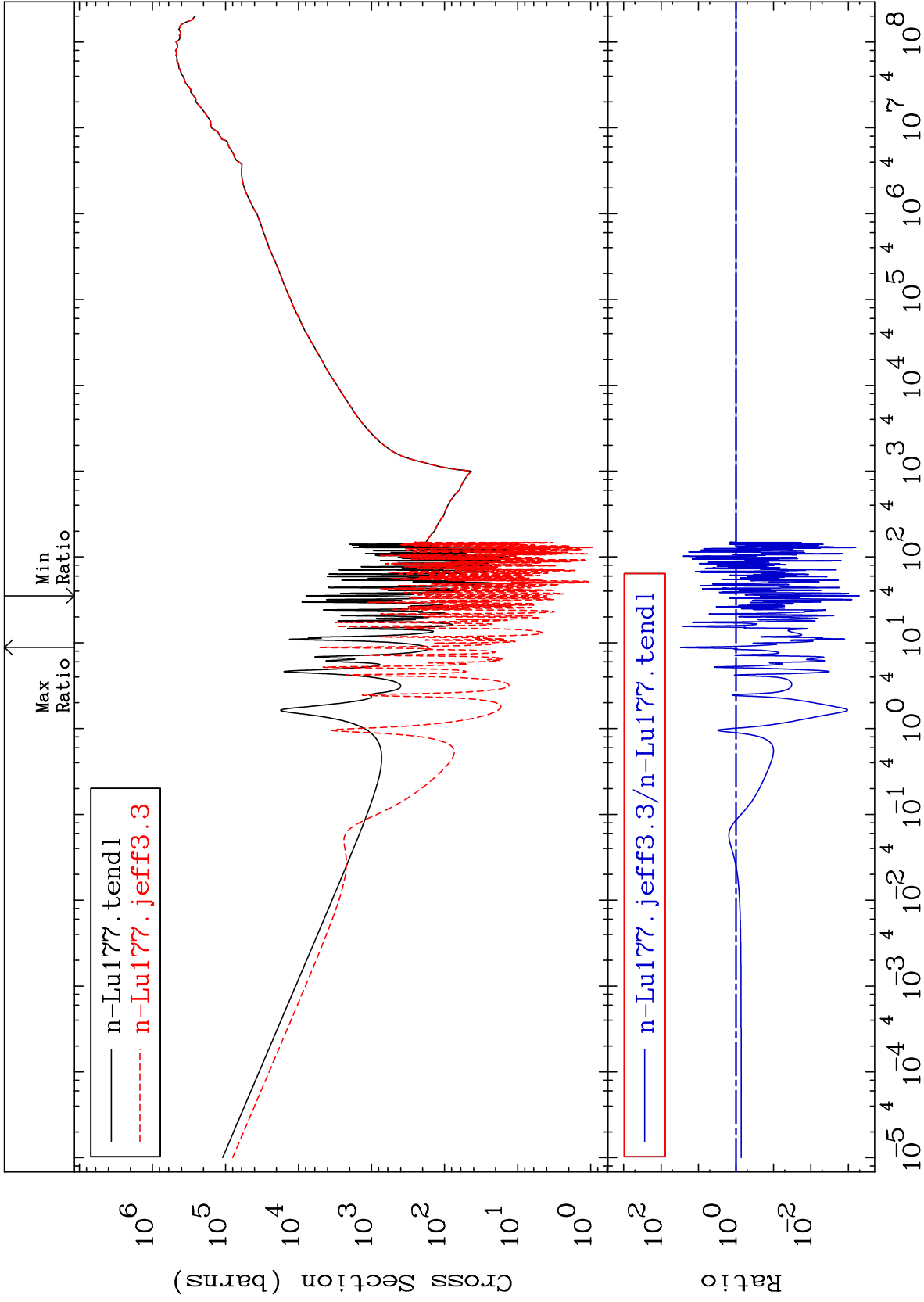
MAT 7131

Dpa total (eV-barns)

71-Lu-177

-99.95 To 2957. %

Cross Section



73

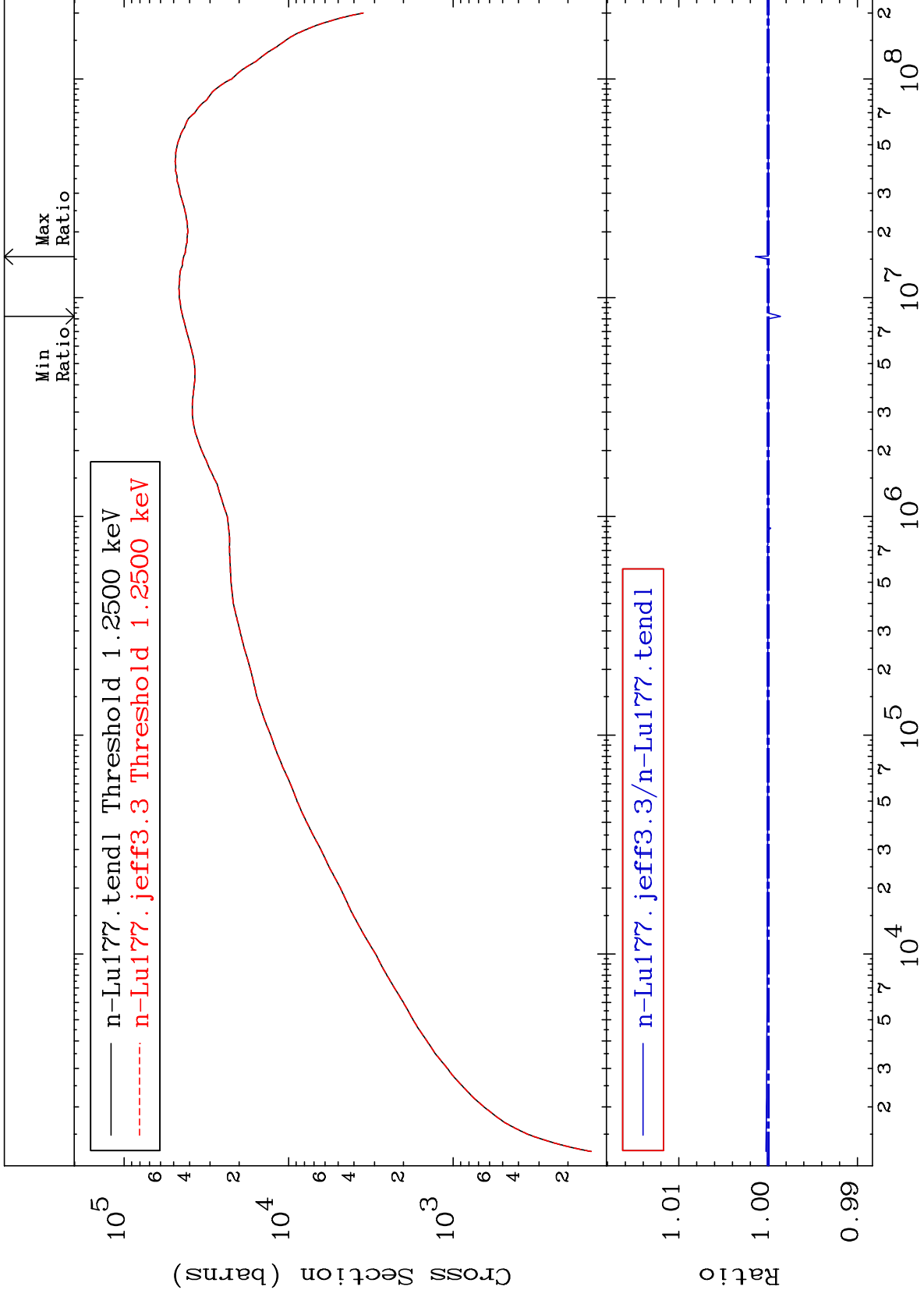
Incident Energy (eV)

71-Lu-177

MAT 7131

Dpa elastic (mt2)
Cross Section

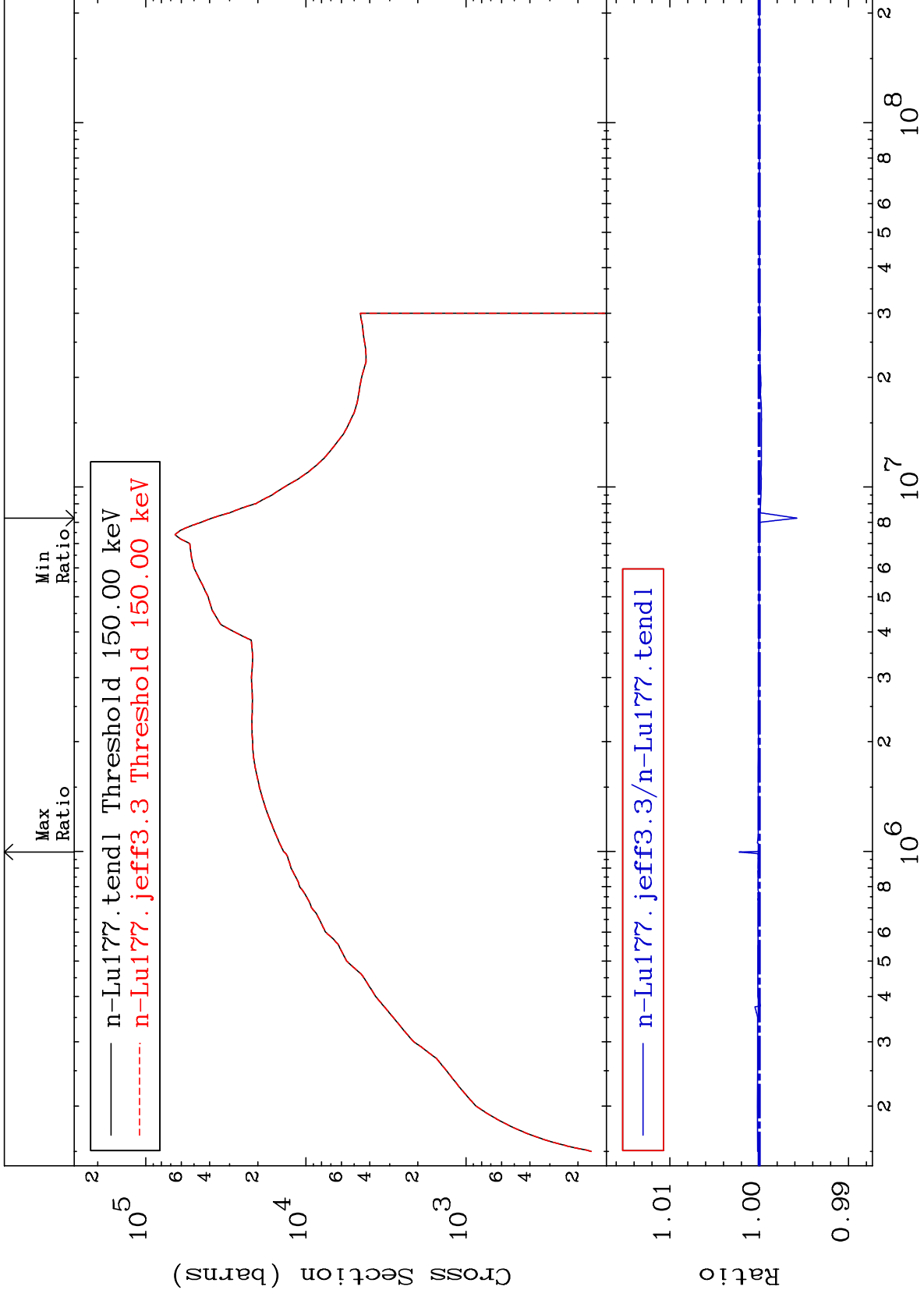
71-Lu-177
-0.138 To 0.143 %



MAT 7131

Dpa inelastic (mt51-91)
Cross Section

71-Lu-177
-0.420 To 0.224 %



75

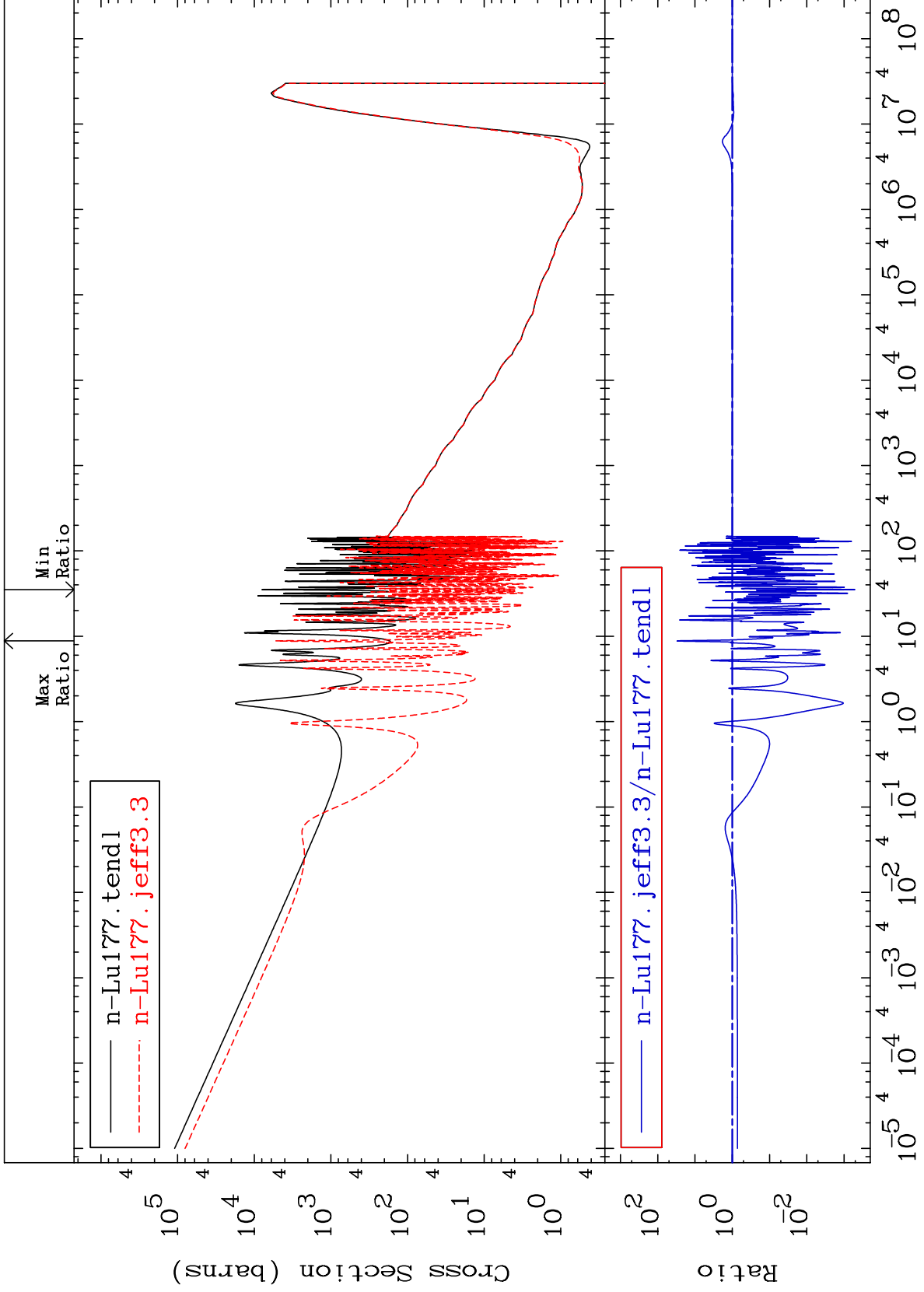
Incident Energy (eV)

71-Lu-177

MAT 7131

Dpa disappearance (mt102 -120)
Cross Section

71-Lu-177
-99.95 To 2957. %

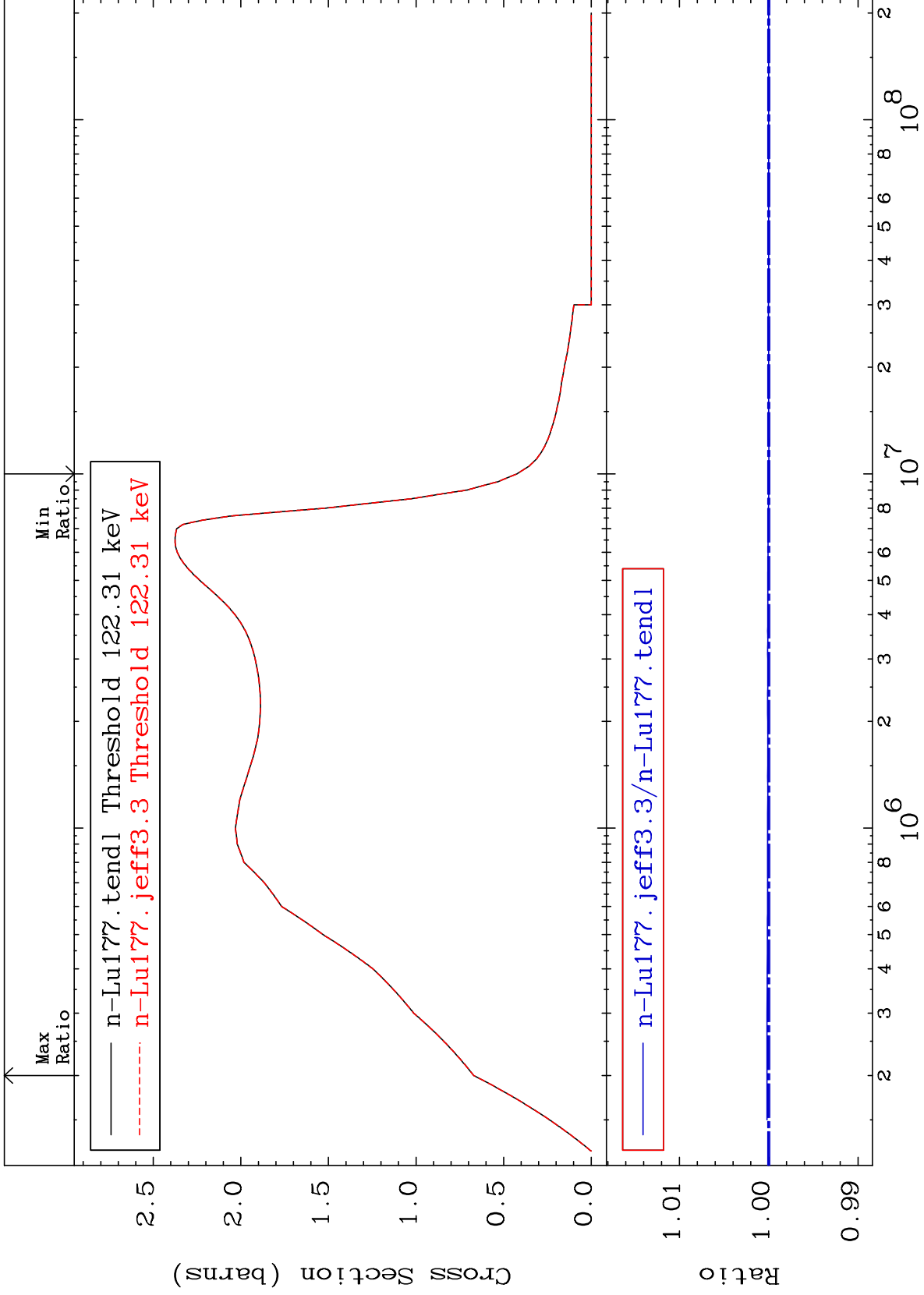


MAT 7131

Inelastic: 71-Lu-177g

71-Lu-177

Radionuclide Production Cross Section -0.003 To 0.020 %



77

Incident Energy (eV)

71-Lu-177

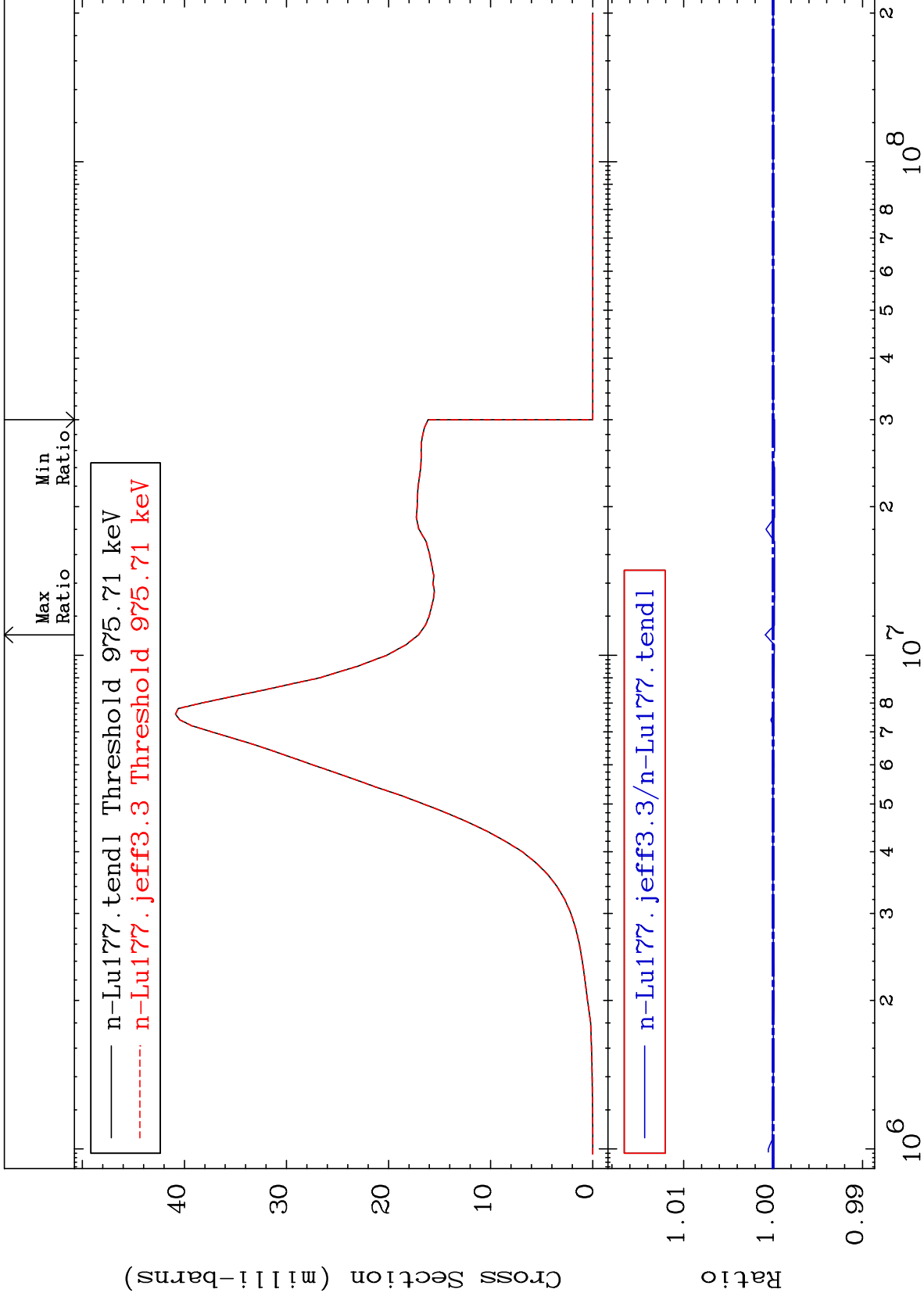
MAT 7131

Inelastic: 71-Lu-177m29

71-Lu-177

Radionuclide Production Cross Section

-0.017 To 0.088 %



78

Incident Energy (eV)

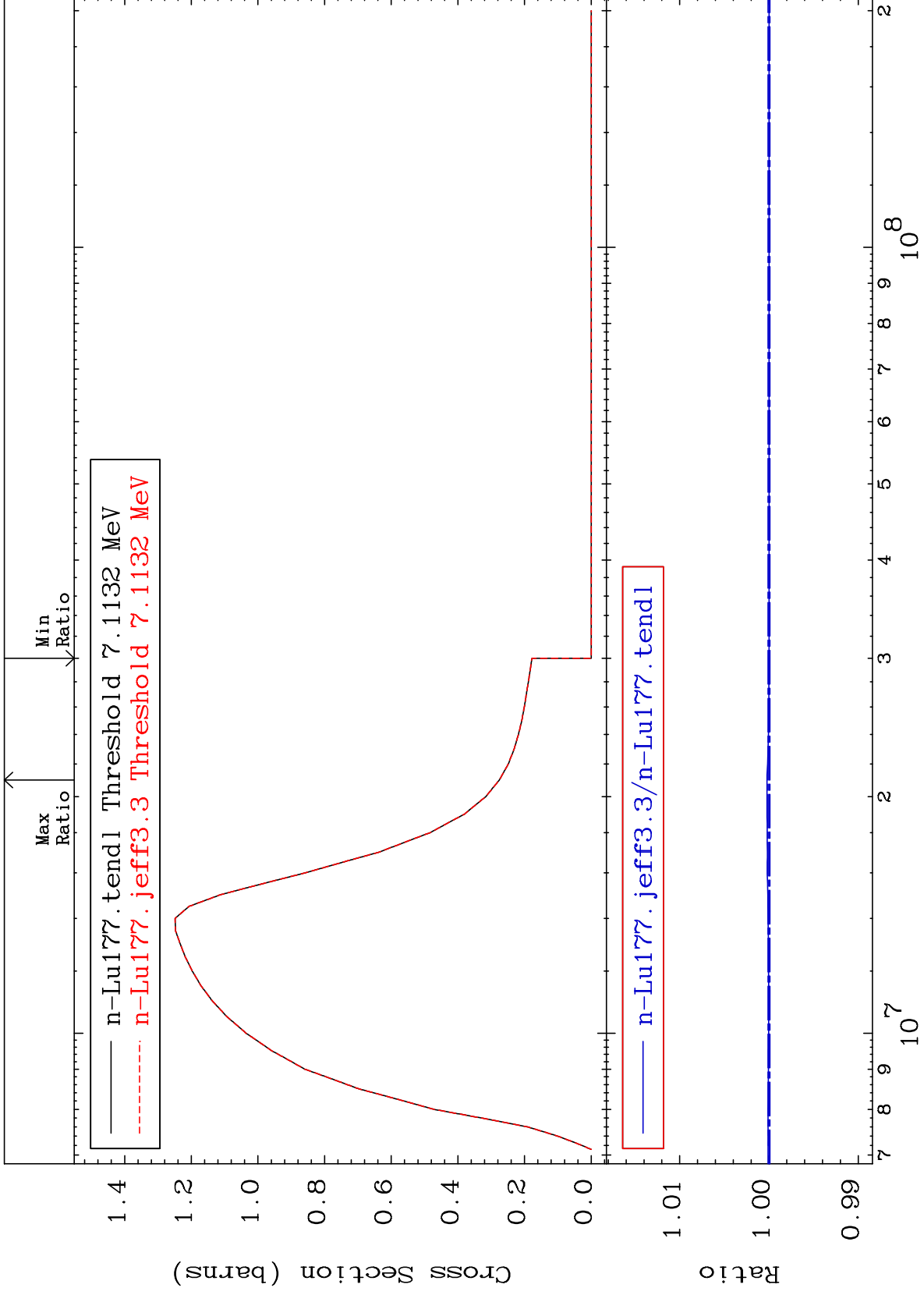
71-Lu-177

MAT 7131

(n,2n):71-Lu-176g

71-Lu-177

Radionuclide Production Cross Section 0.000 To 0.023 %



79

Incident Energy (eV)

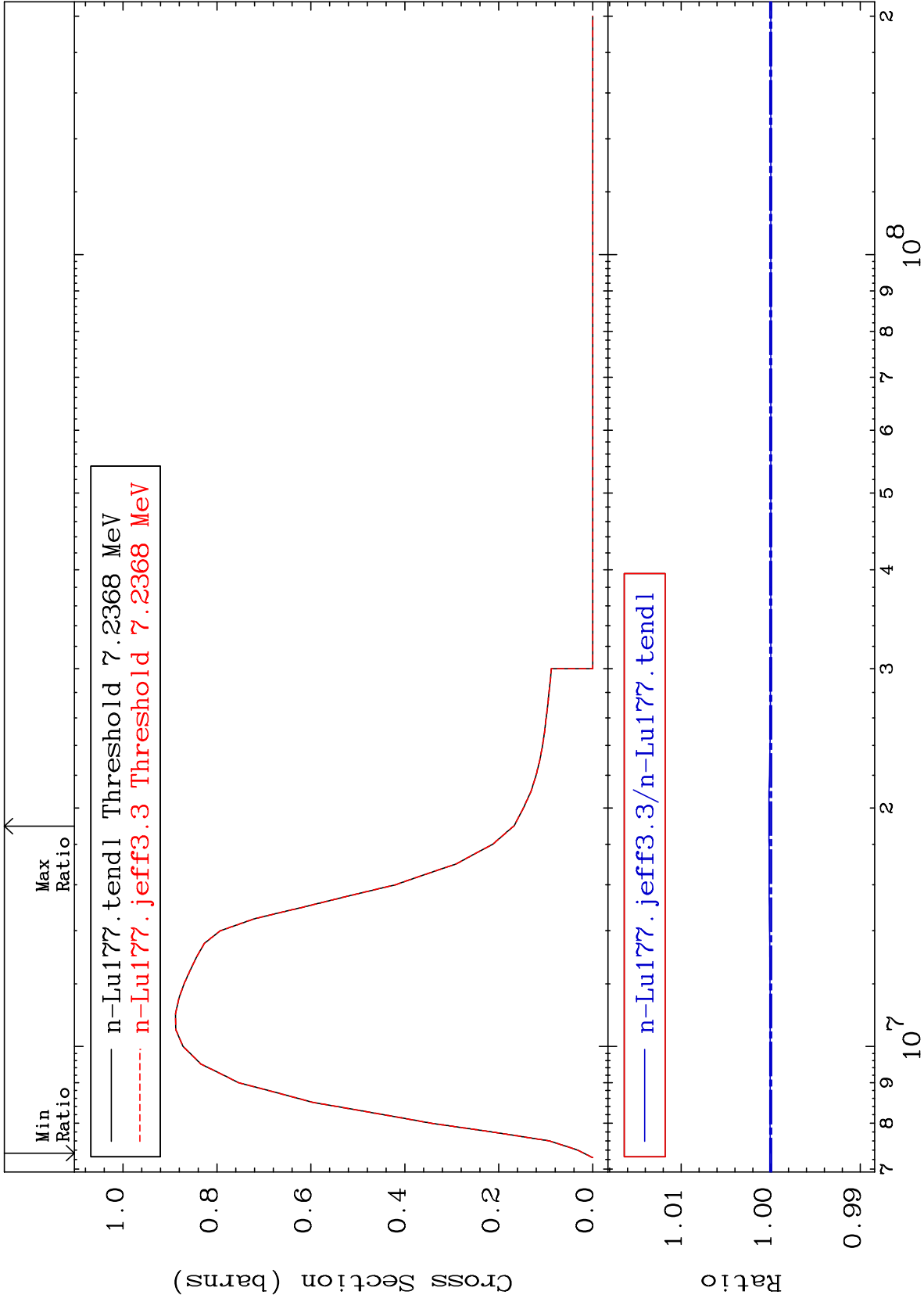
71-Lu-177

MAT 7131

(n,2n):71-Lu-176m1

71-Lu-177

Radionuclide Production Cross Section -0.001 To 0.020 %



80

Incident Energy (eV)

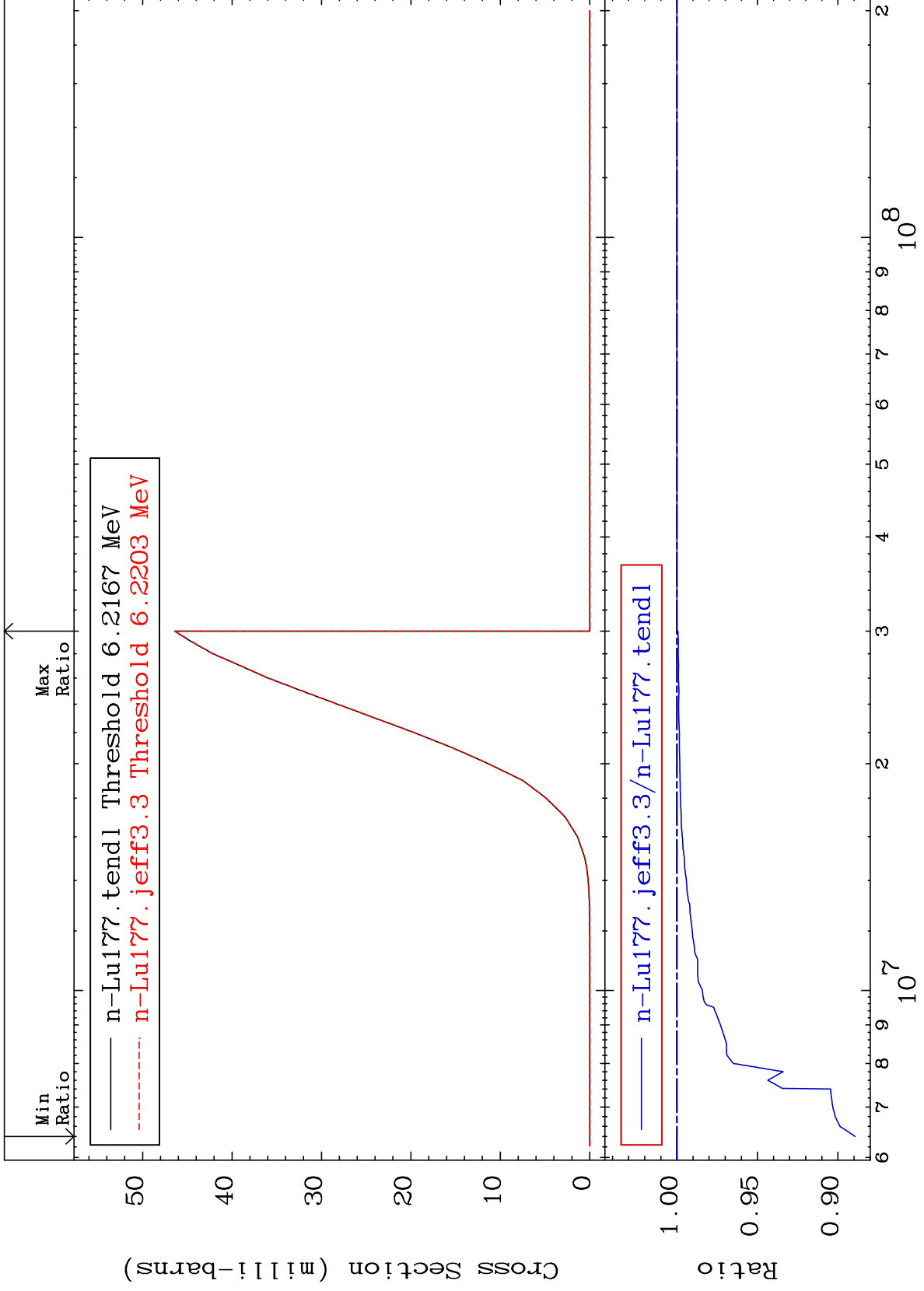
71-Lu-177

MAT 7131

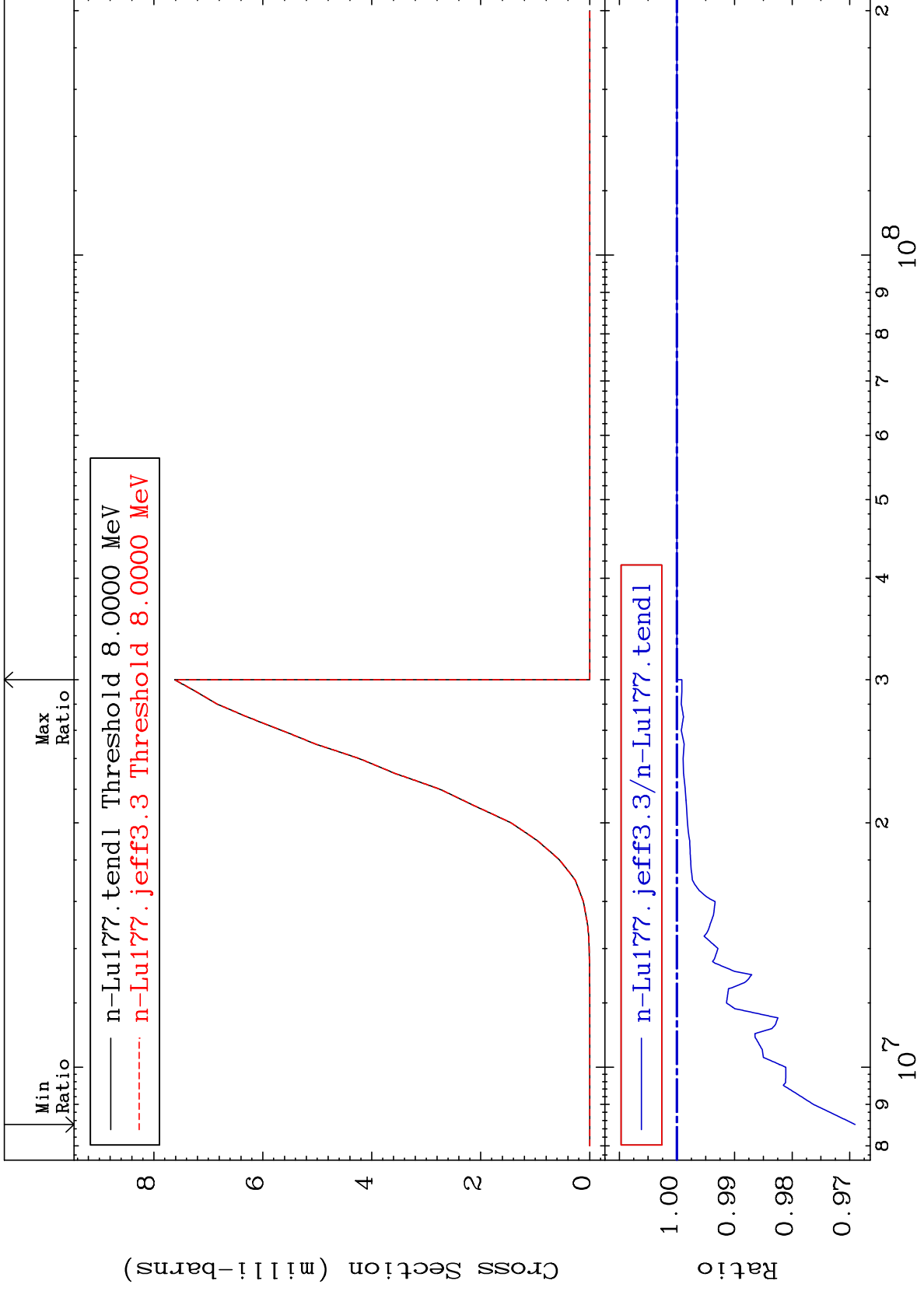
(n, n') p: 70-Yb-176g

71-Lu-177

Radionuclide Production Cross Section -11.07 To 0.000 %



Radionuclide Production Cross Section -3.093 To 0.000 %

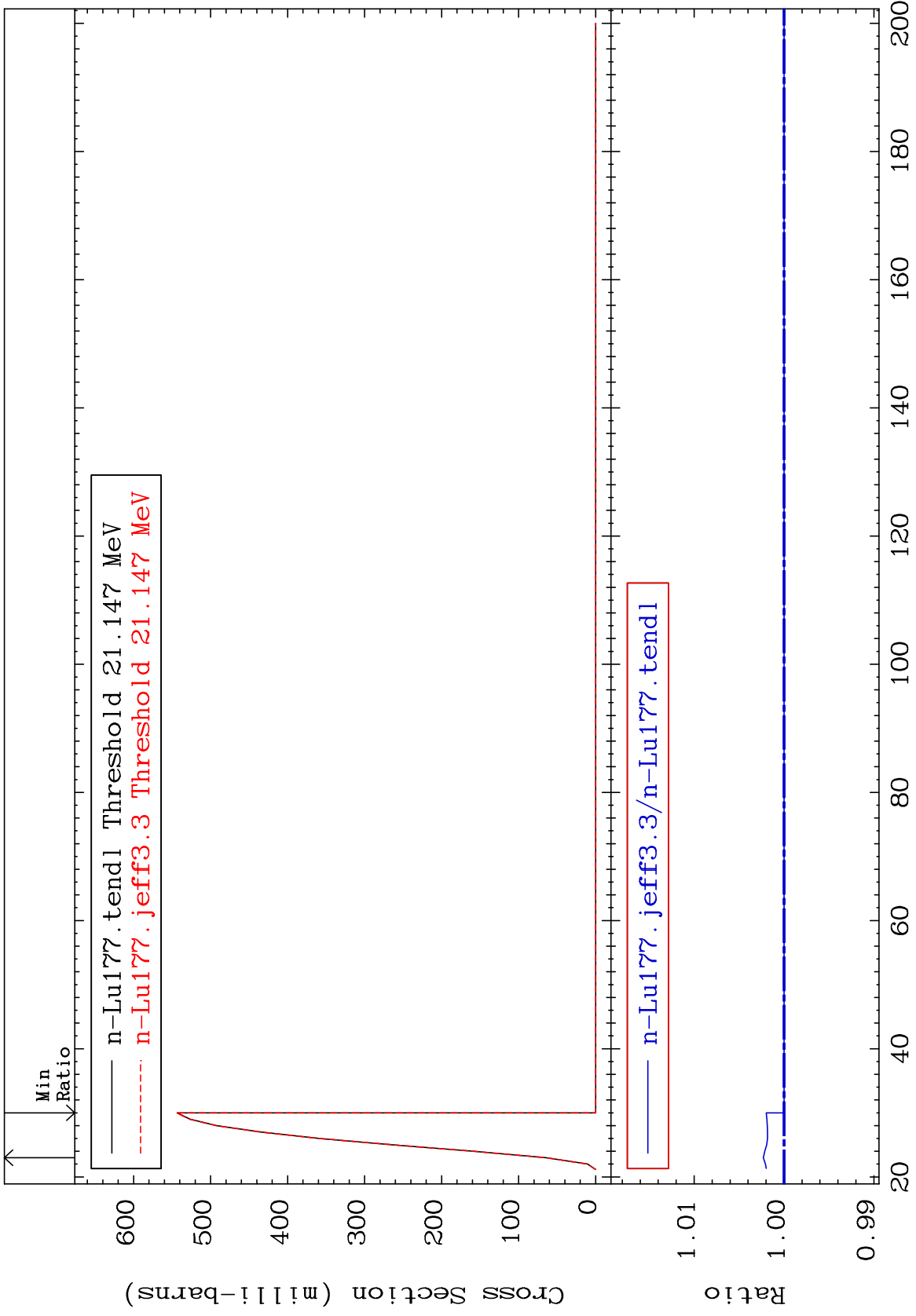


MAT 7131

(n, 4n) : 71-Lu-174g

71-Lu-177

Radionuclide Production Cross Section 0.000 To 0.230 %

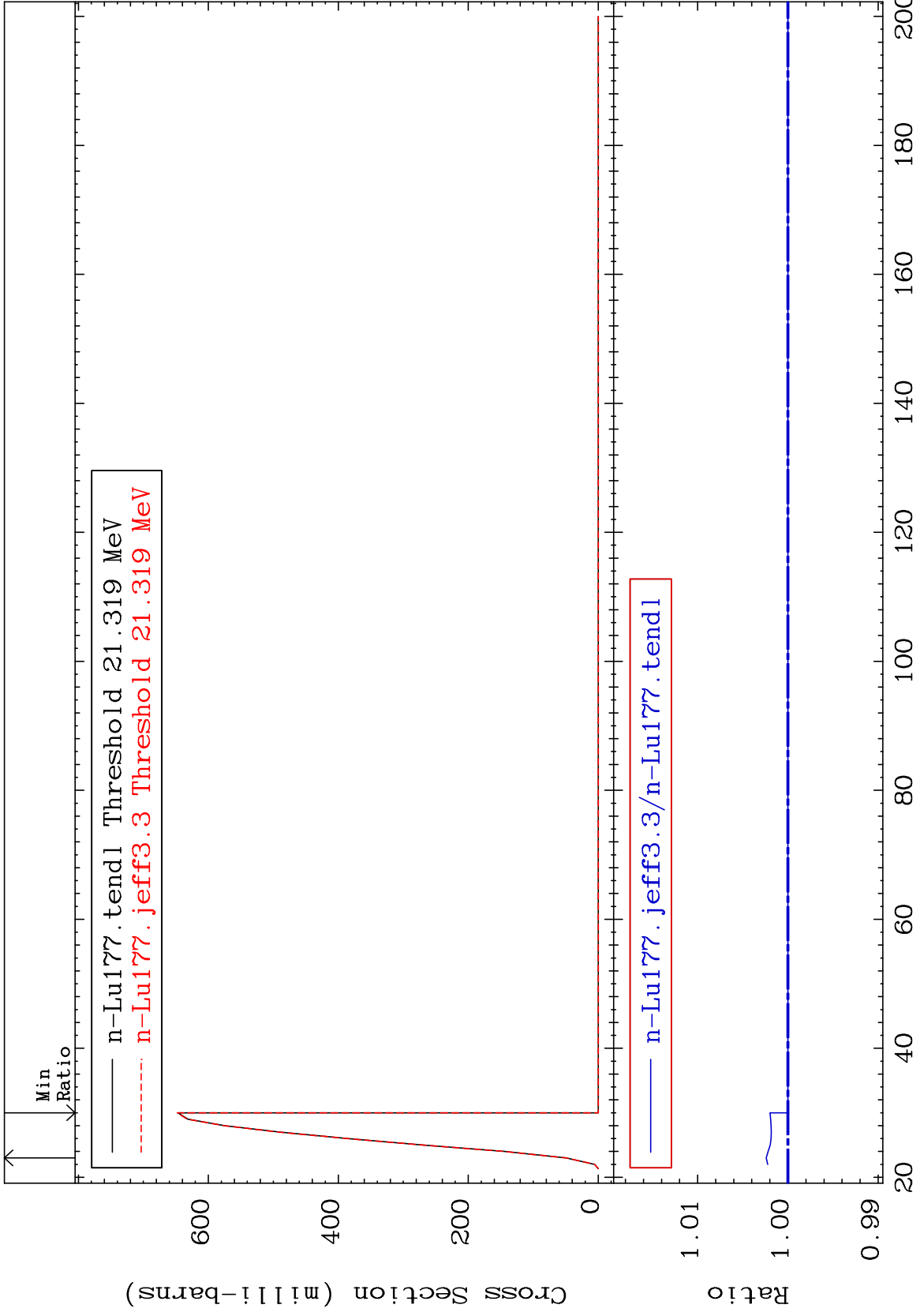


MAT 7131

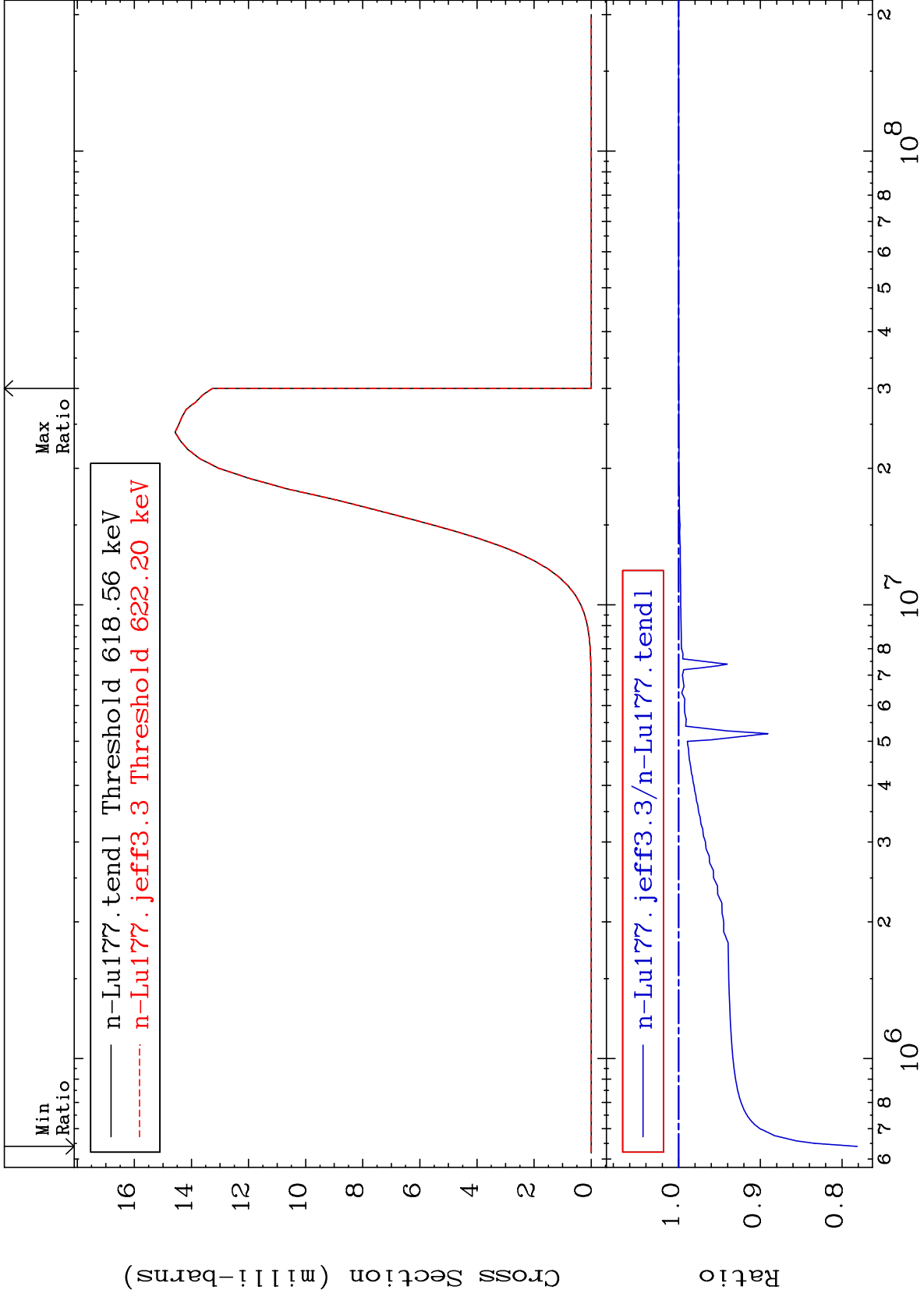
(n, 4n) : 71-Lu-174m3

71-Lu-177

Radionuclide Production Cross Section 0.000 To 0.240 %



Radionuclide Production Cross Section -21.86 To 0.000 %

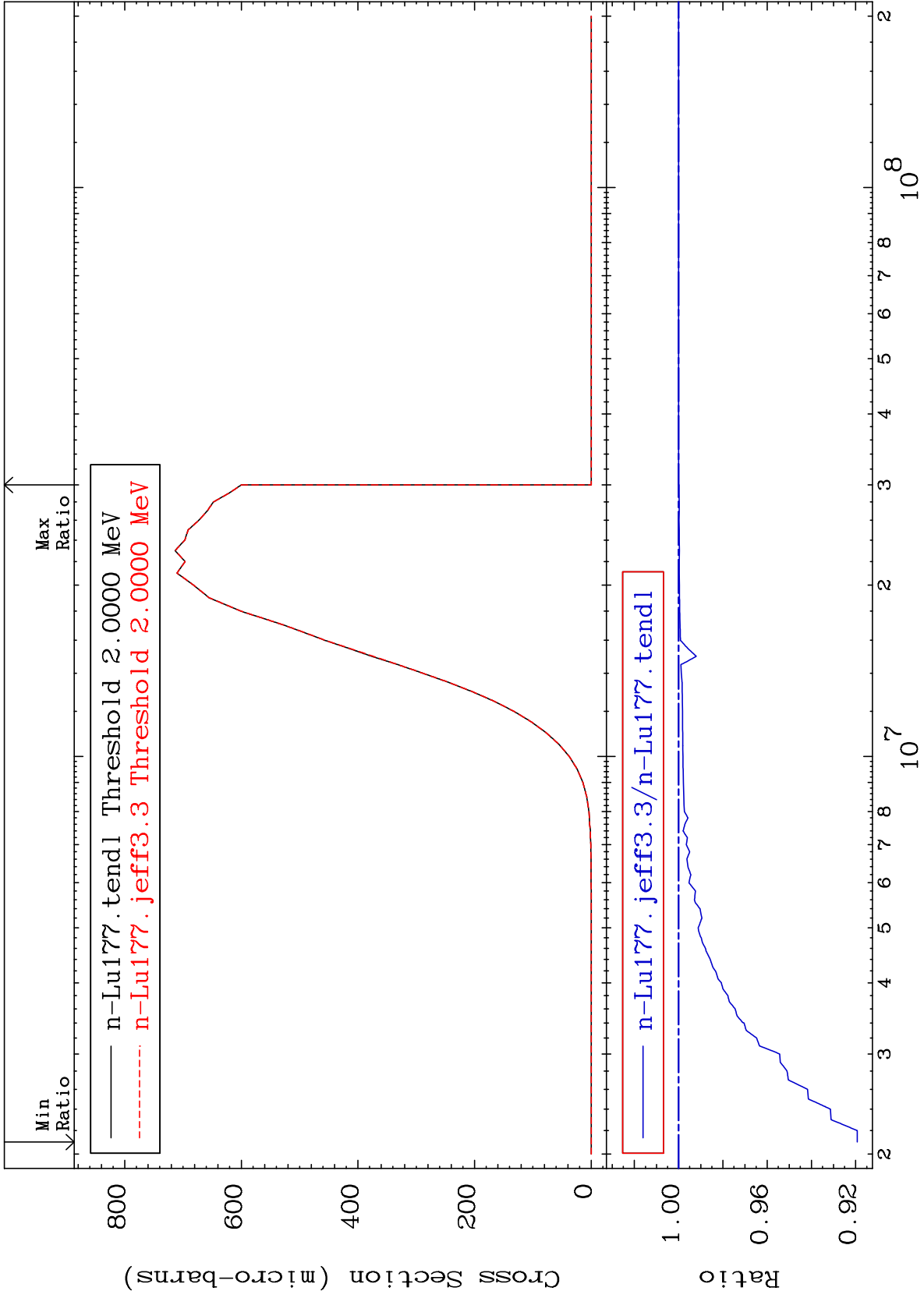


MAT 7131

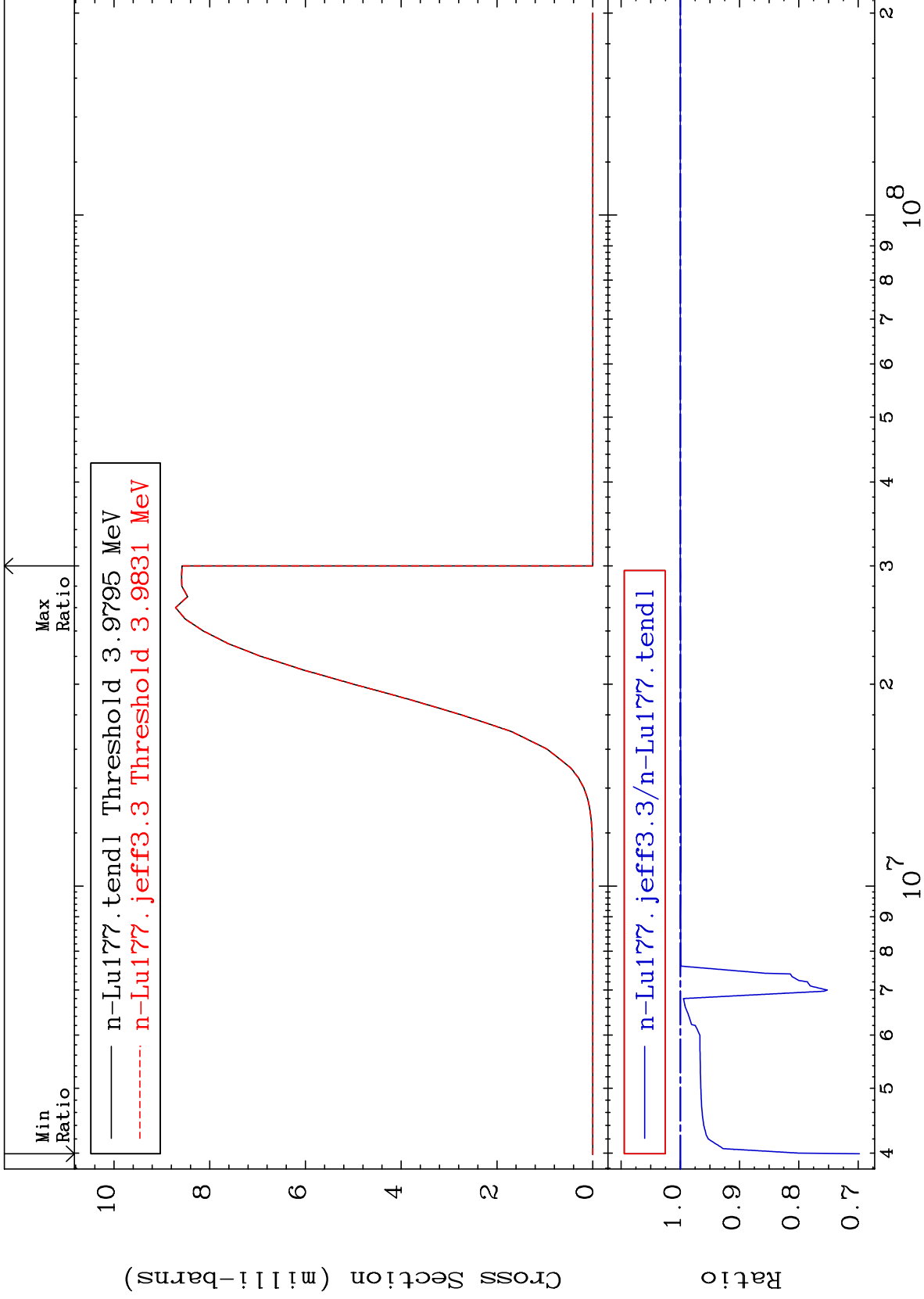
(n, p) : 70-Yb-177m6

71-Lu-177

Radionuclide Production Cross Section -8.071 To 0.000 %



Radionuclide Production Cross Section -30.23 To 0.000 %



Radionuclide Production Cross Section -81.23 To 0.000 %

