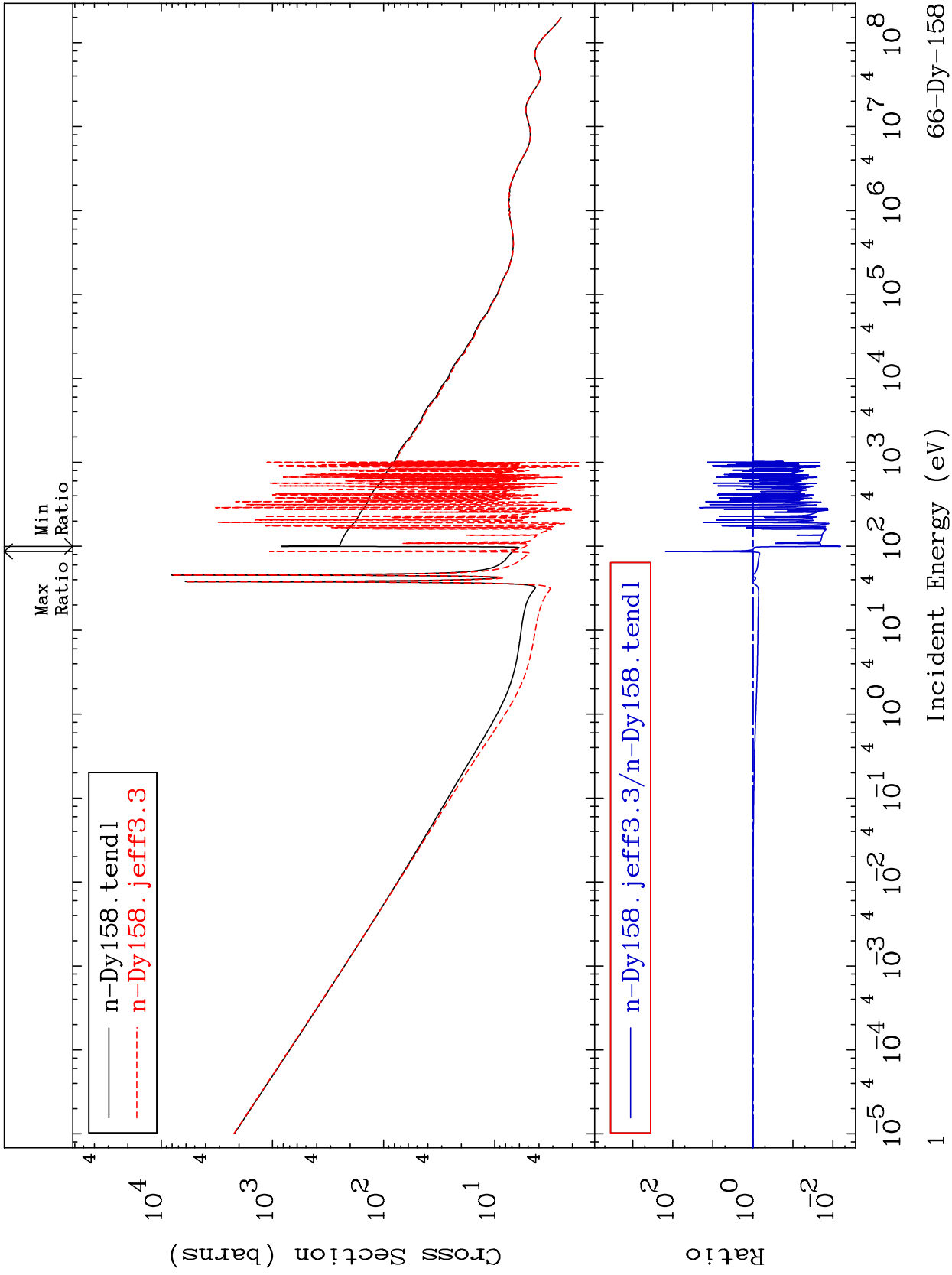


MAT 6631

Total Cross Section
66-Dy-158
-99.36 To 9999. %



66-Dy-158

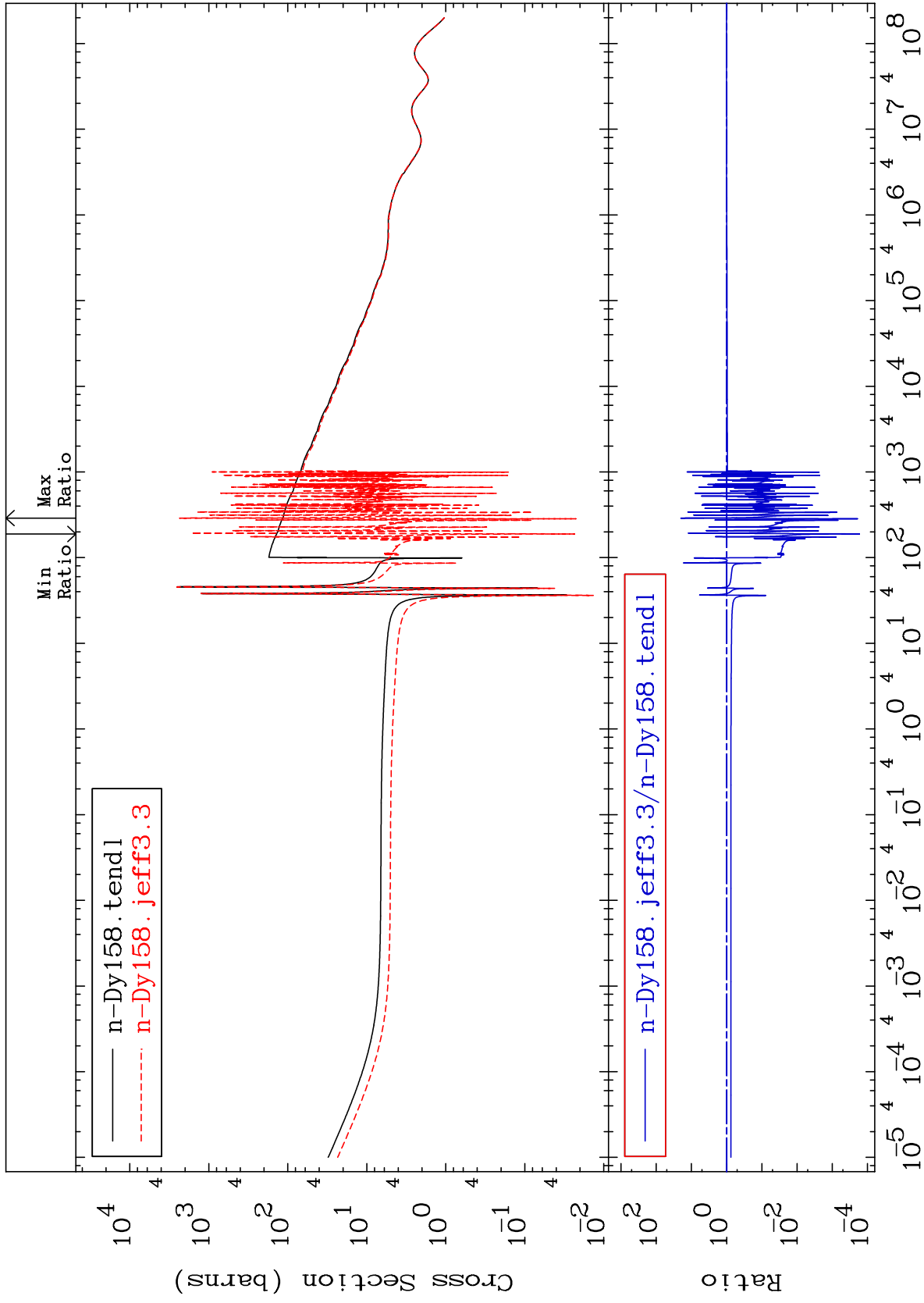
MAT 6631

Elastic

66-Dy-158

Cross Section

-99.98 To 1909. %



Incident Energy (eV)

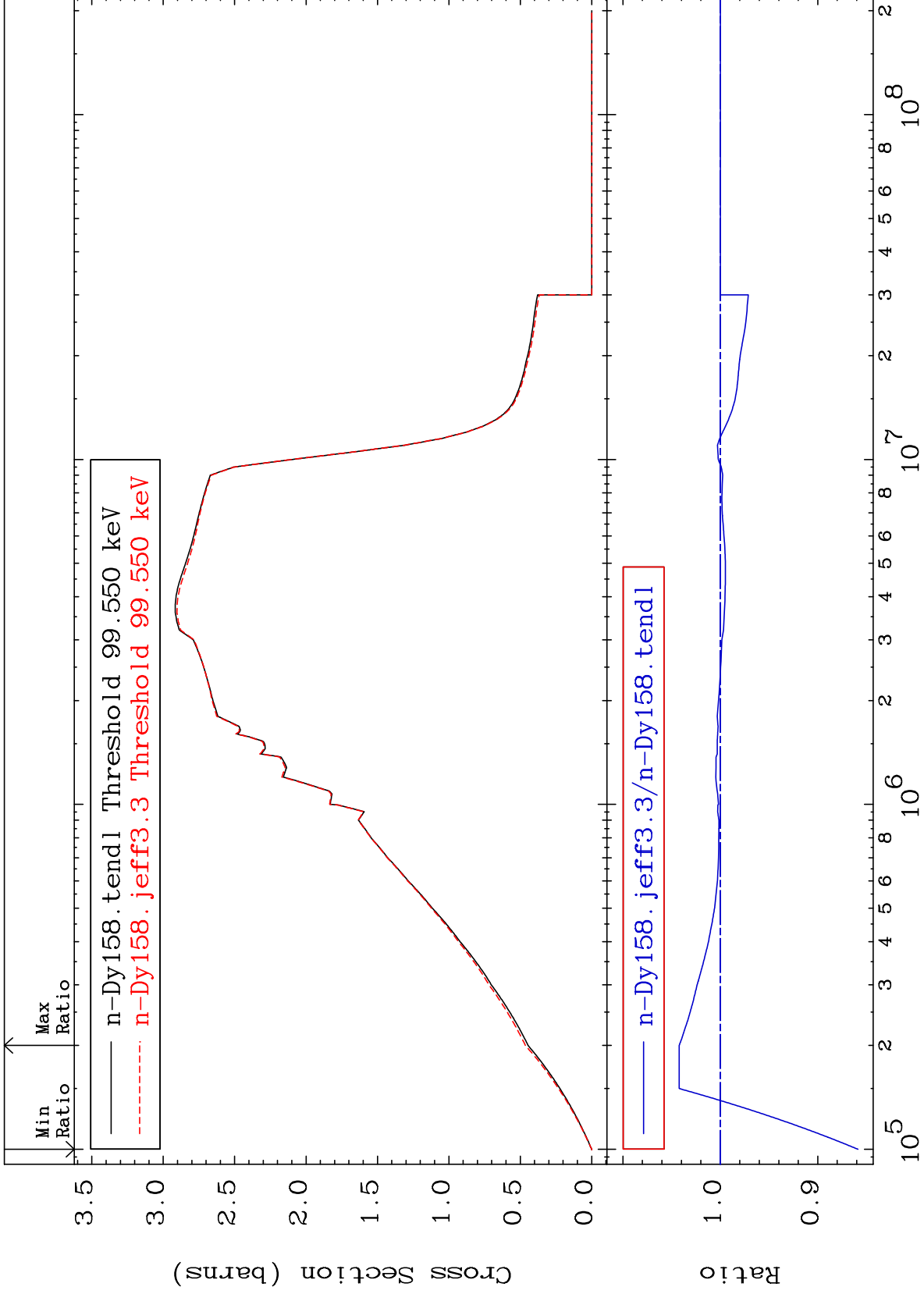
66-Dy-158

2

MAT 6631

Inelastic
Cross Section

66-Dy-158
-14.13 To 4.223 %



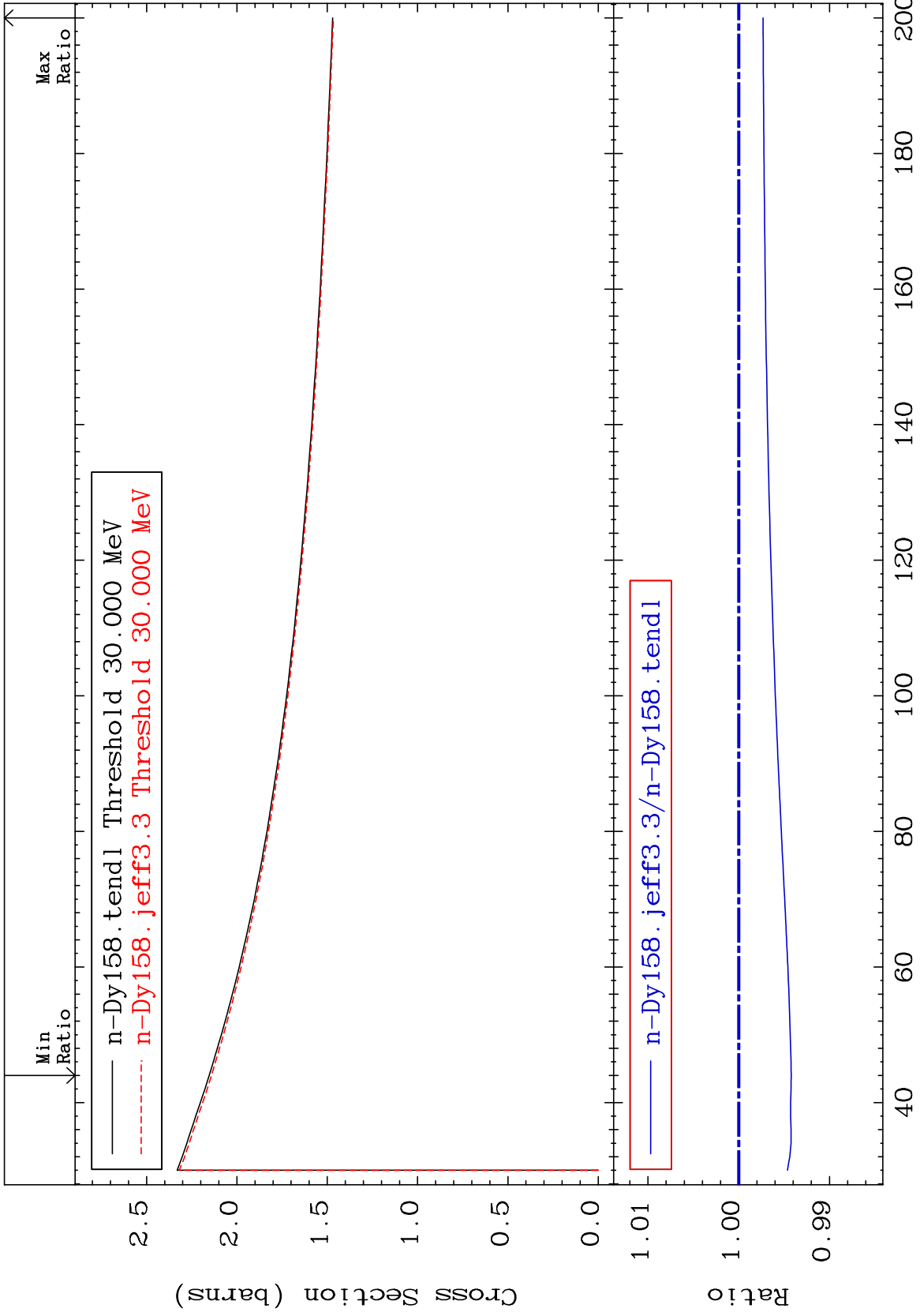
66-Dy-158

66-Dy-158

MAT 6631

(n, remainder)
Cross Section

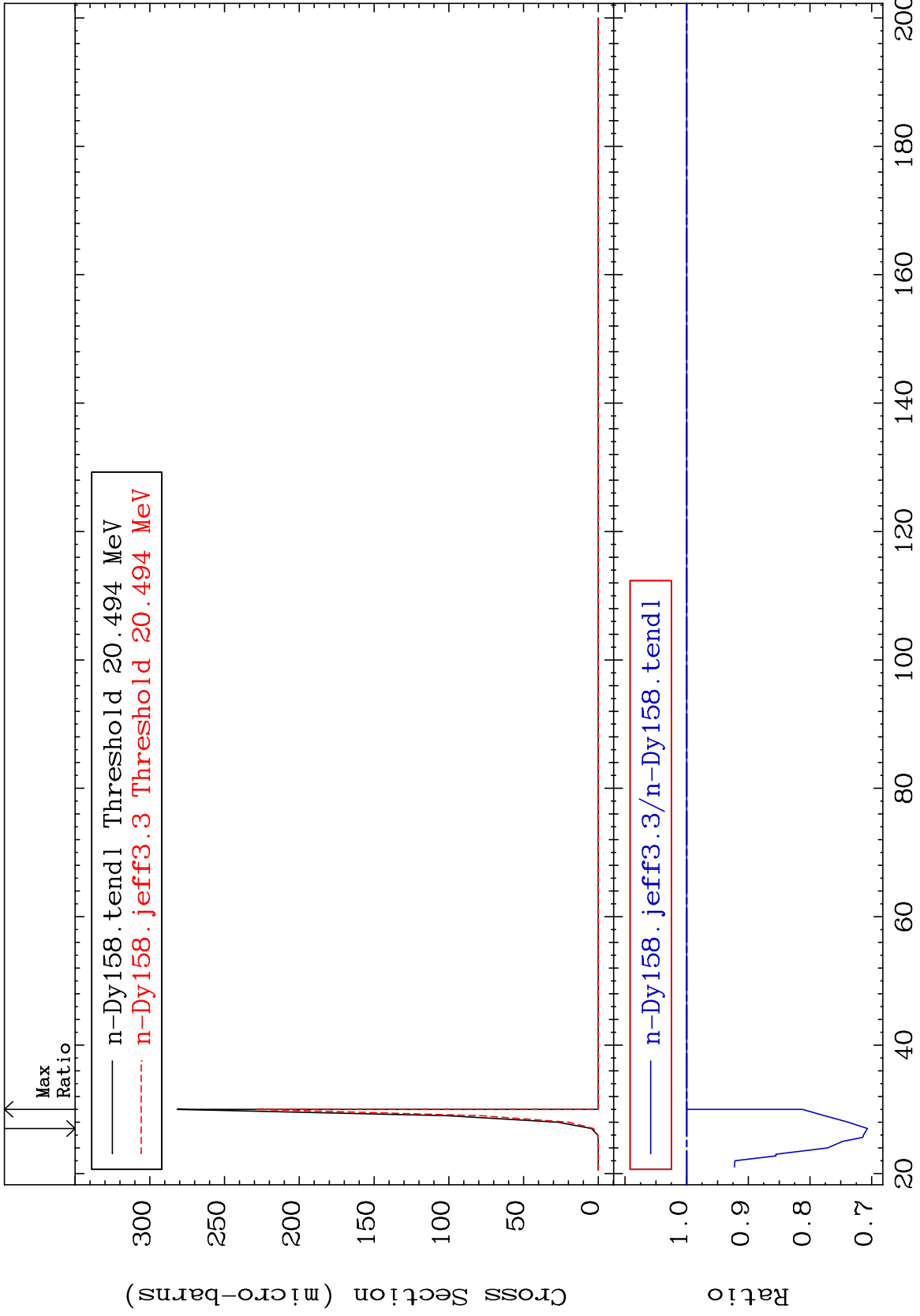
66-Dy-158
-0.578 To -0.267%



MAT 6631

(n,2n) d
Cross Section

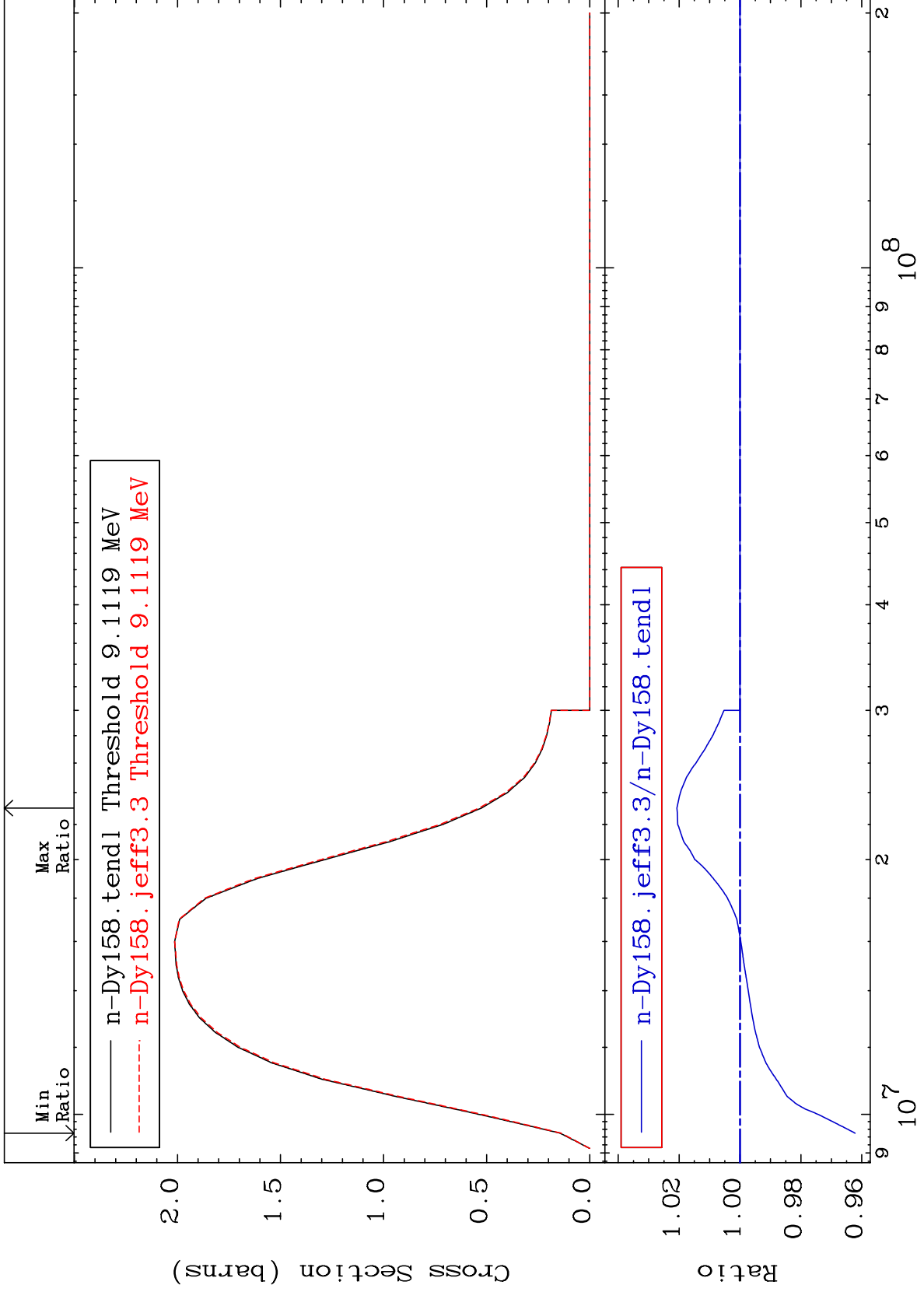
66-Dy-158
-29.32 To 0.000 %



MAT 6631

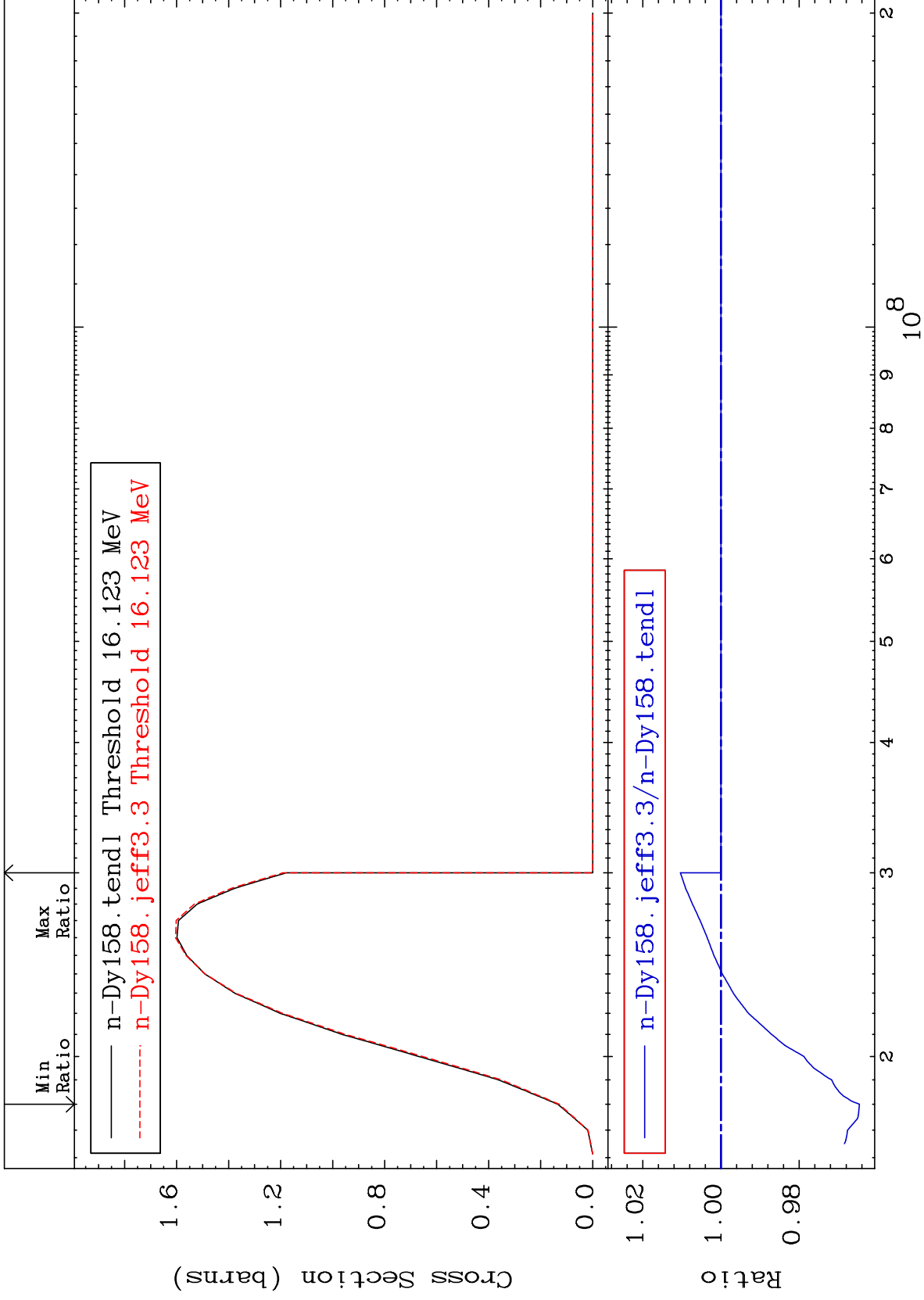
(n,2n)
Cross Section

66-Dy-158
-3.779 To 2.073 %



Incident Energy (eV)

66-Dy-158



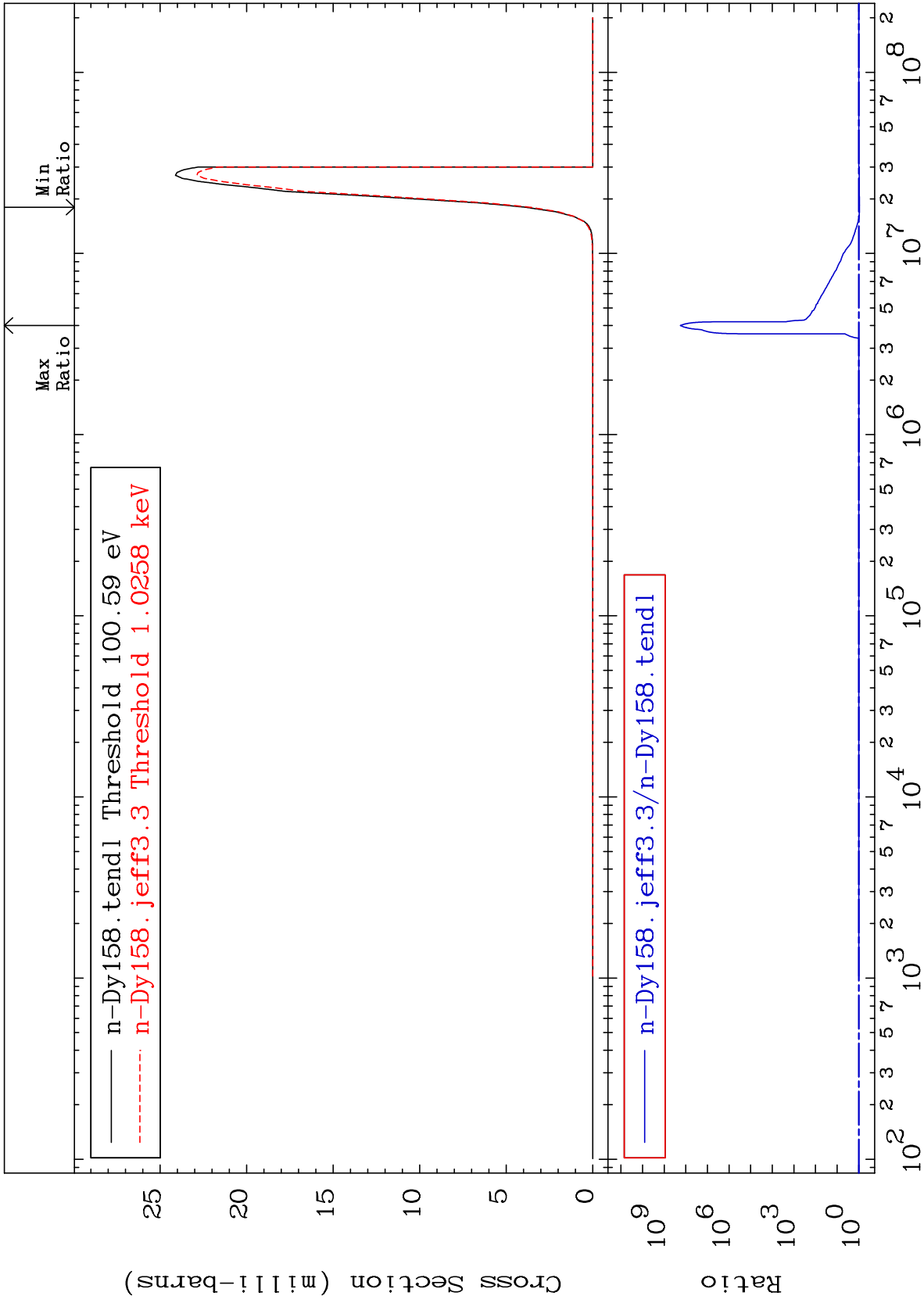
MAT 6631

(n, n') α

66-Dy-158

Cross Section

-7.094 To 9999. %



8

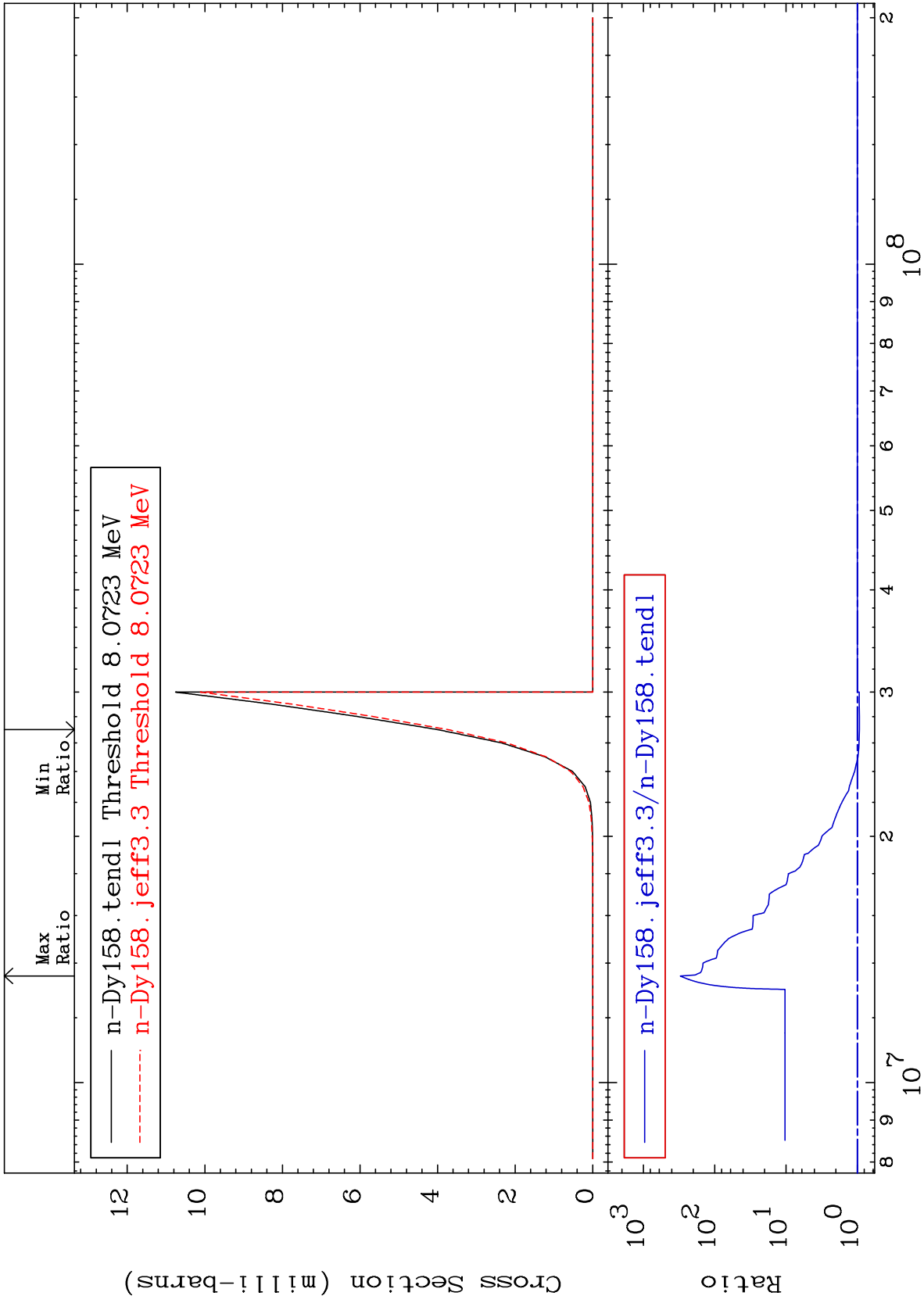
Incident Energy (eV)

66-Dy-158

MAT 6631

(n,2n) α
Cross Section

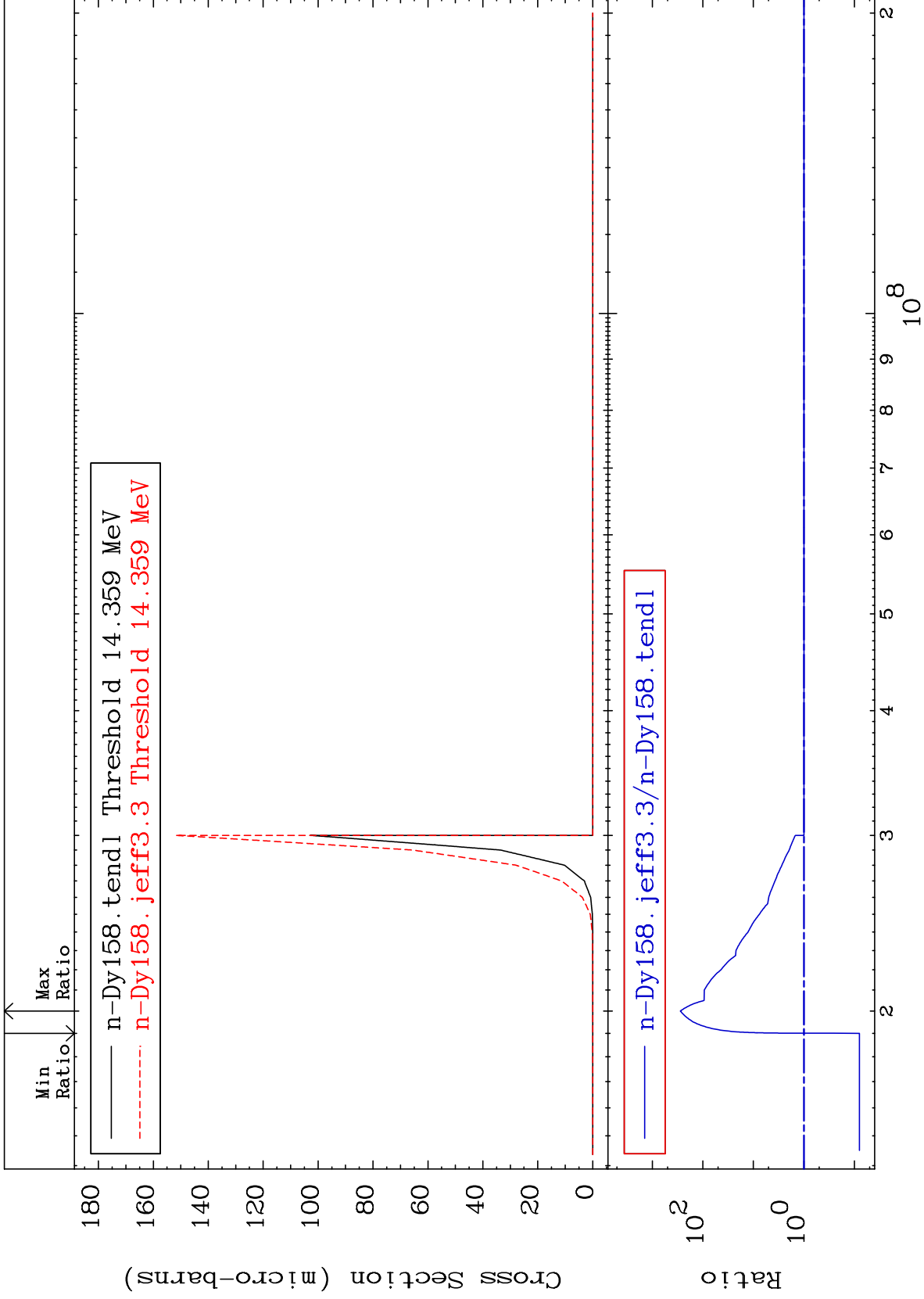
66-Dy-158
-6.661 To 9999. %



MAT 6631

(n,3n) α
Cross Section

66-Dy-158
-92.05 To 9999. %



10

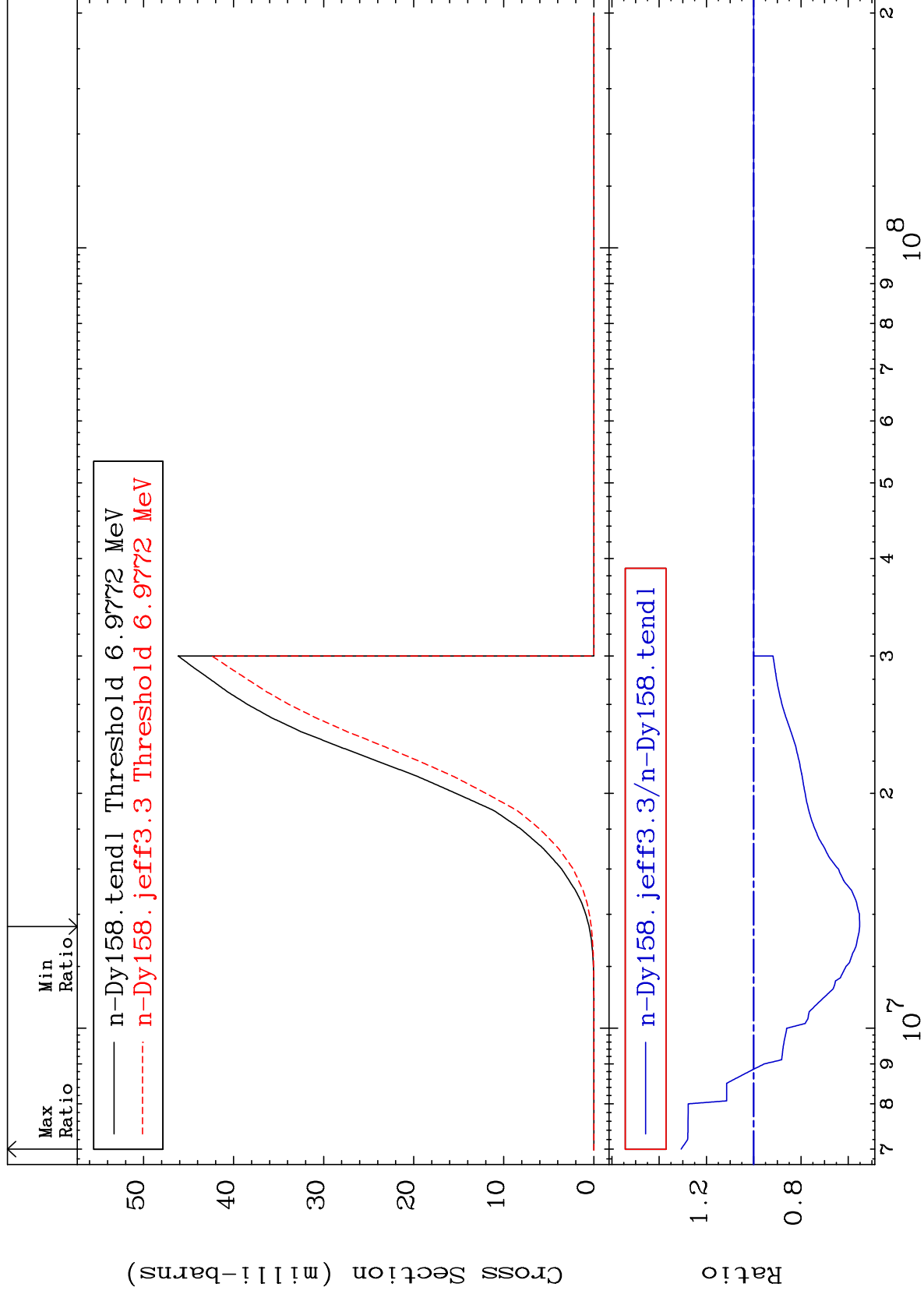
Incident Energy (eV)

66-Dy-158

MAT 6631

(n,n') p
Cross Section

66-Dy-158
-44.83 To 30.70 %



11

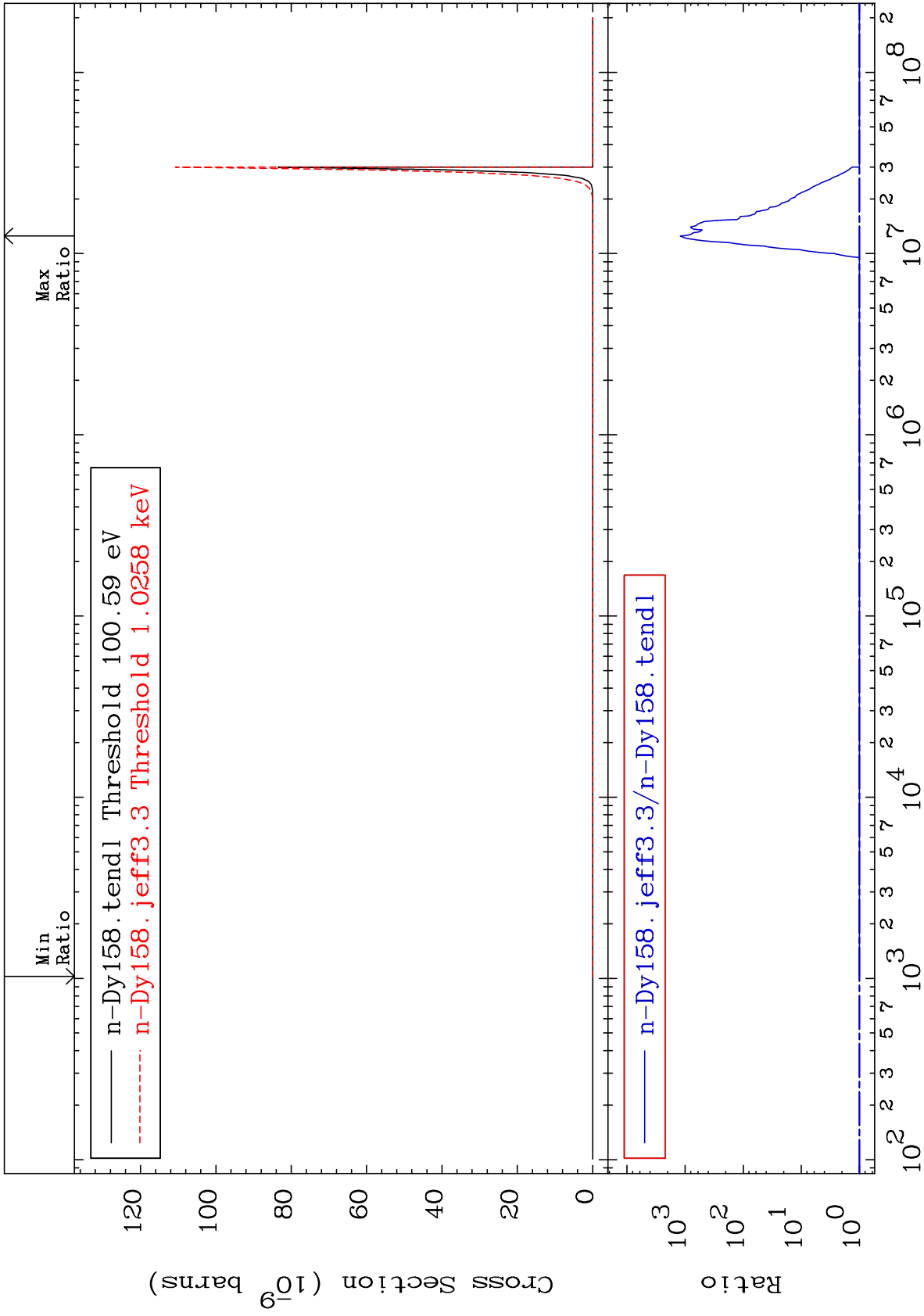
Incident Energy (eV)

66-Dy-158

MAT 6631

(n, n') 2α
Cross Section

66-Dy-158
To 9999. %



Incident Energy (eV)

66-Dy-158

12

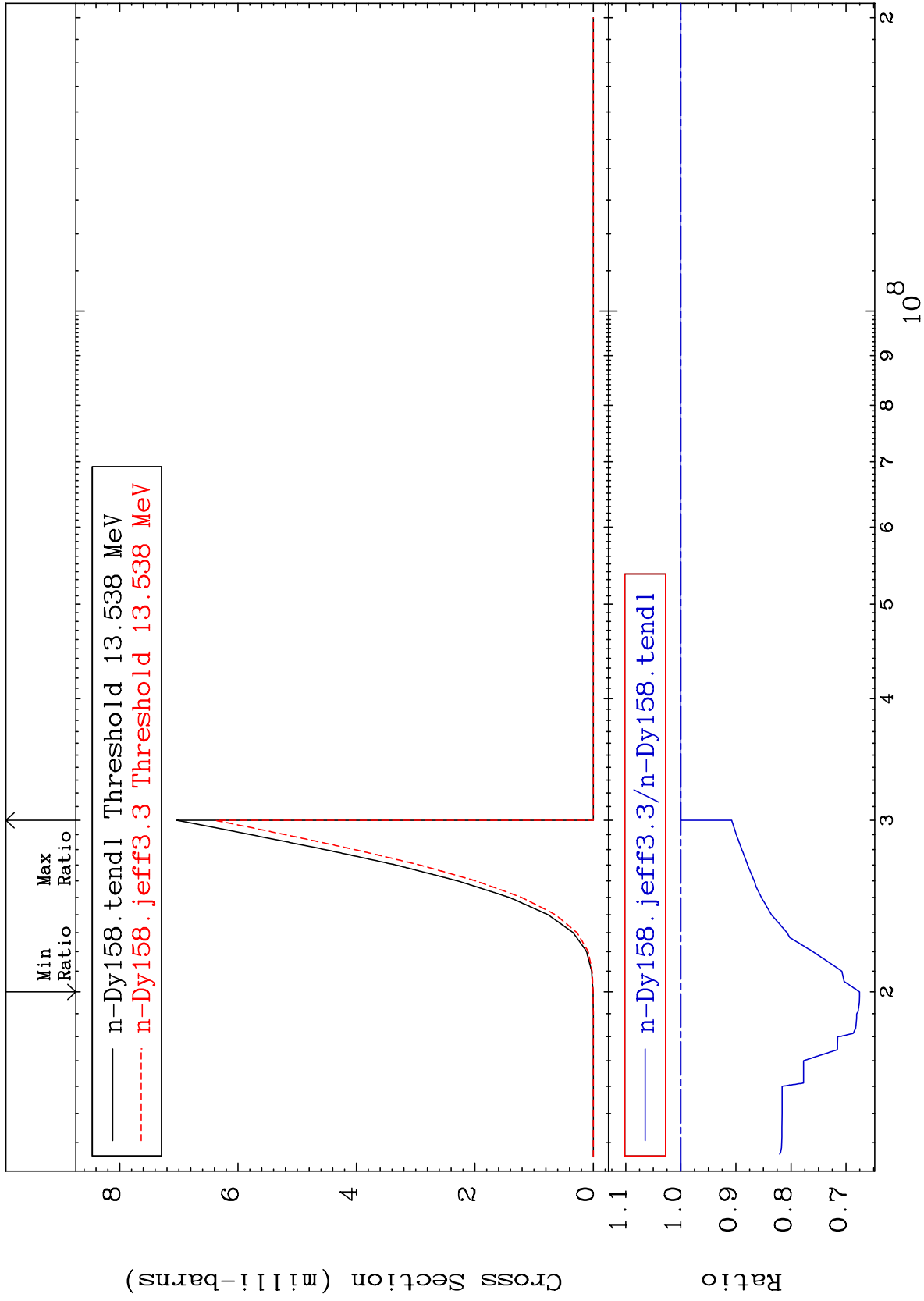
MAT 6631

(n, n') d

66-Dy-158

Cross Section

-32.45 To 0.000 %



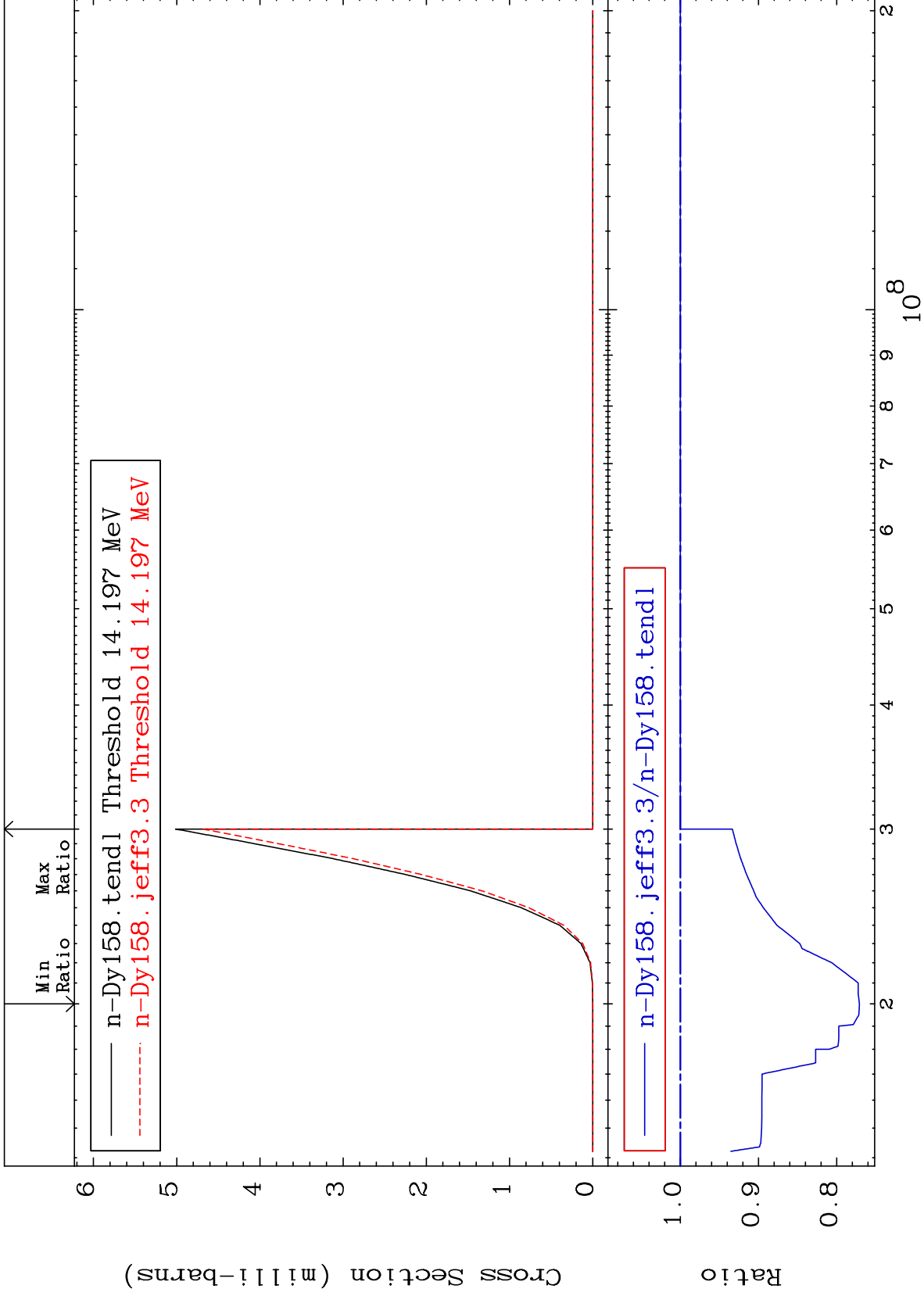
MAT 6631

(n, n') t

66-Dy-158

Cross Section

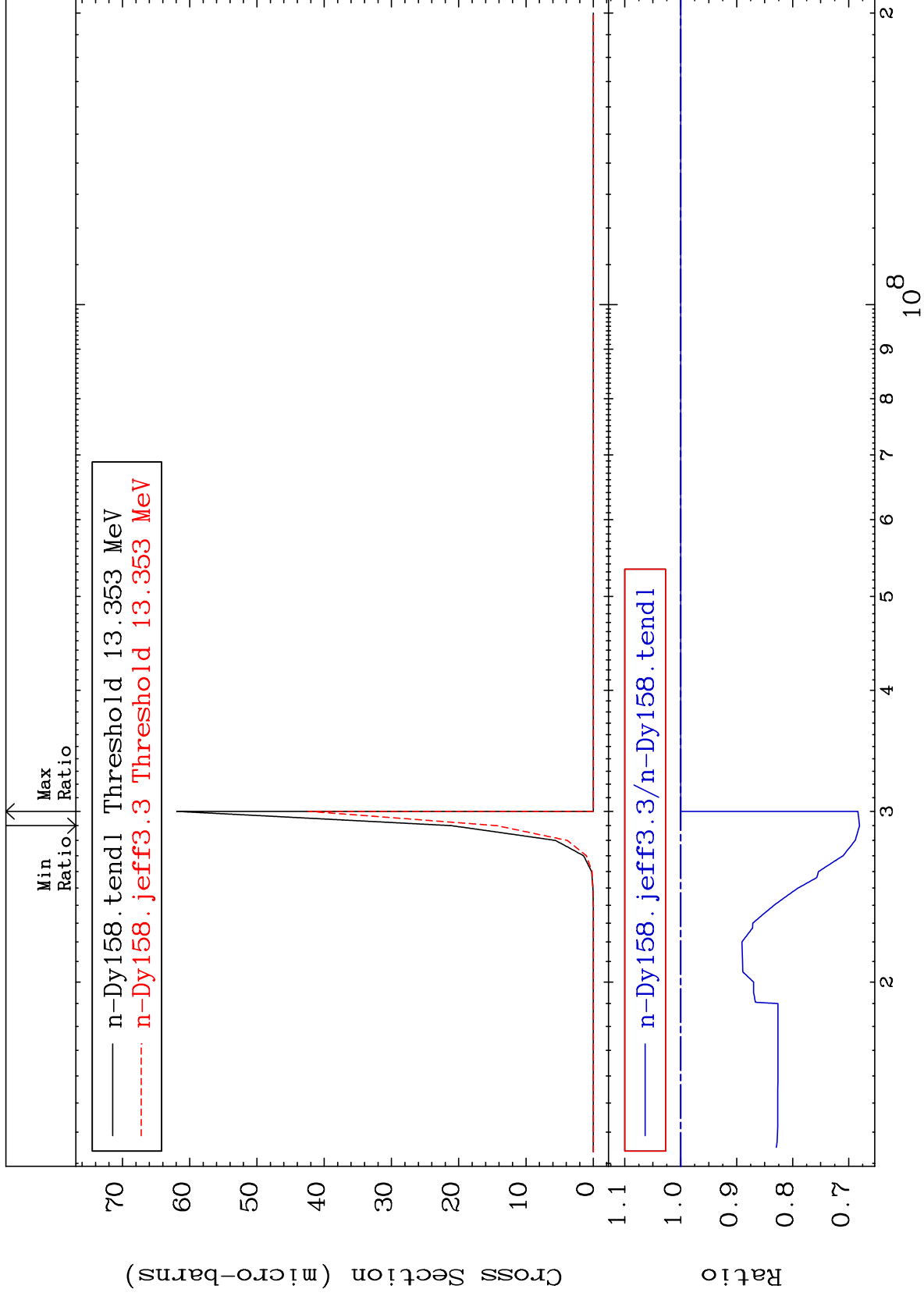
-22.90 To 0.000 %



MAT 6631

(n, n') He-3
Cross Section

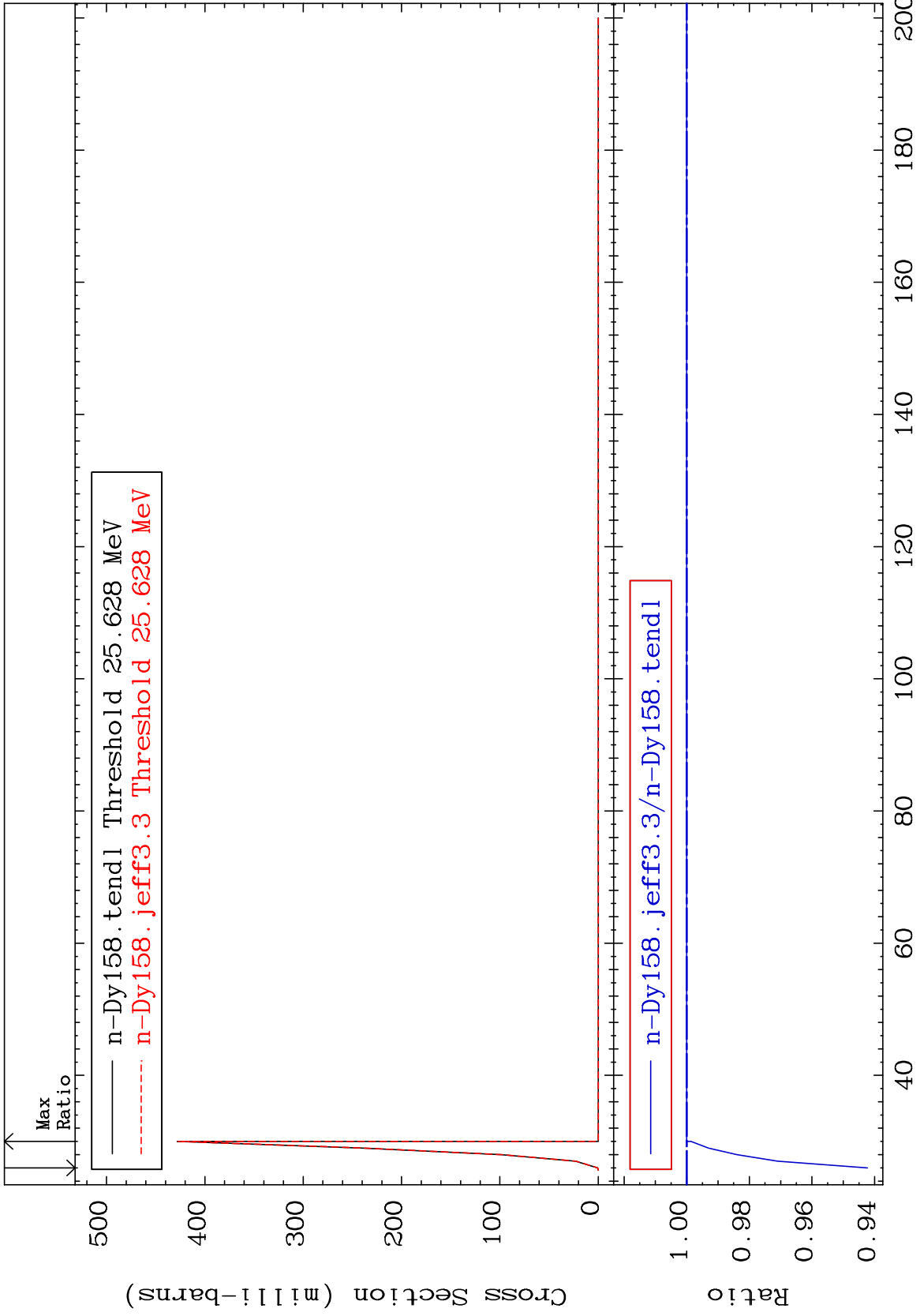
66-Dy-158
-31.94 To 0.000 %



MAT 6631

(n,4n)
Cross Section

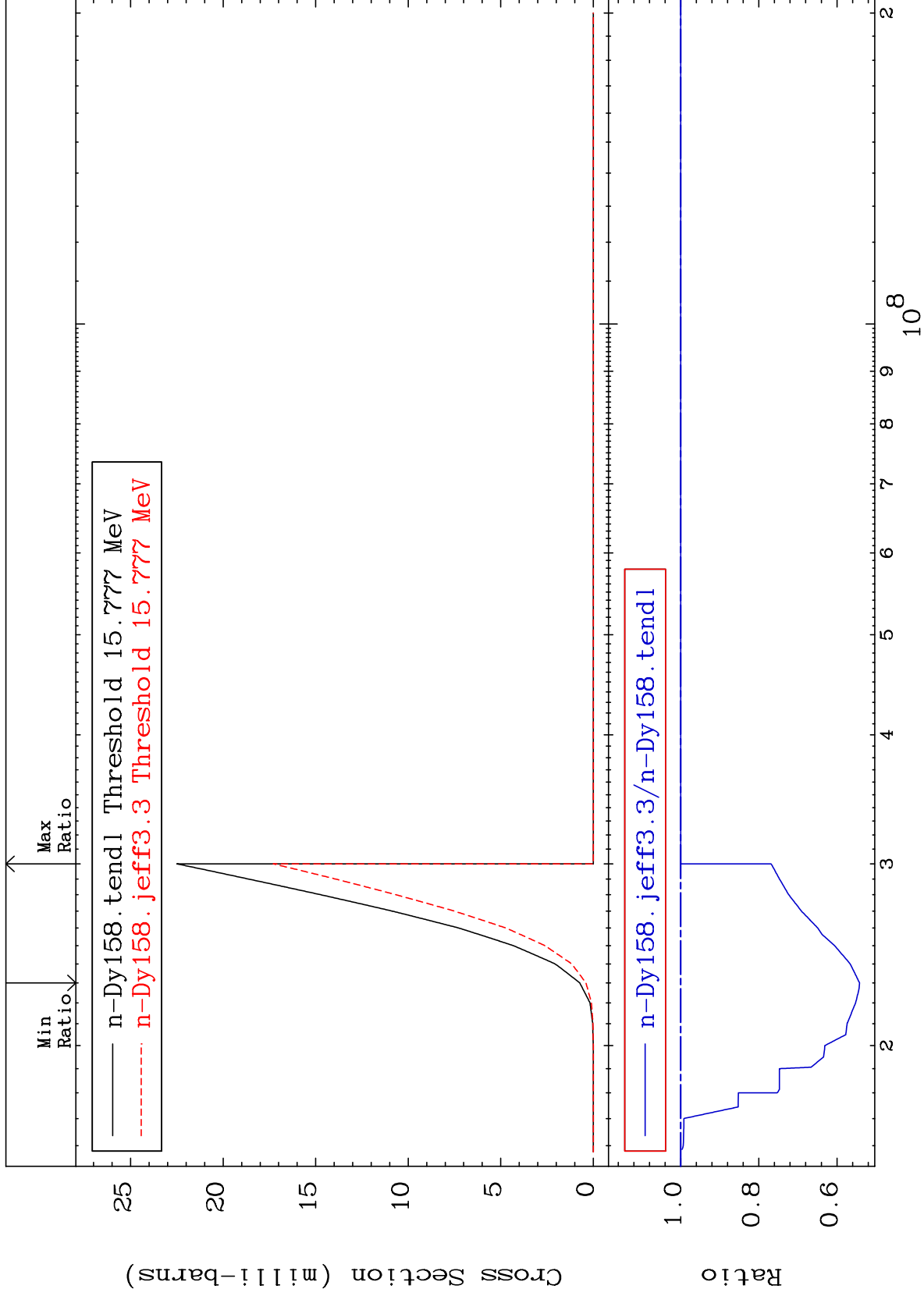
66-Dy-158
-5.772 To 0.000 %



MAT 6631

(n,2n) p
Cross Section

66-Dy-158
-45.78 To 0.000 %



17

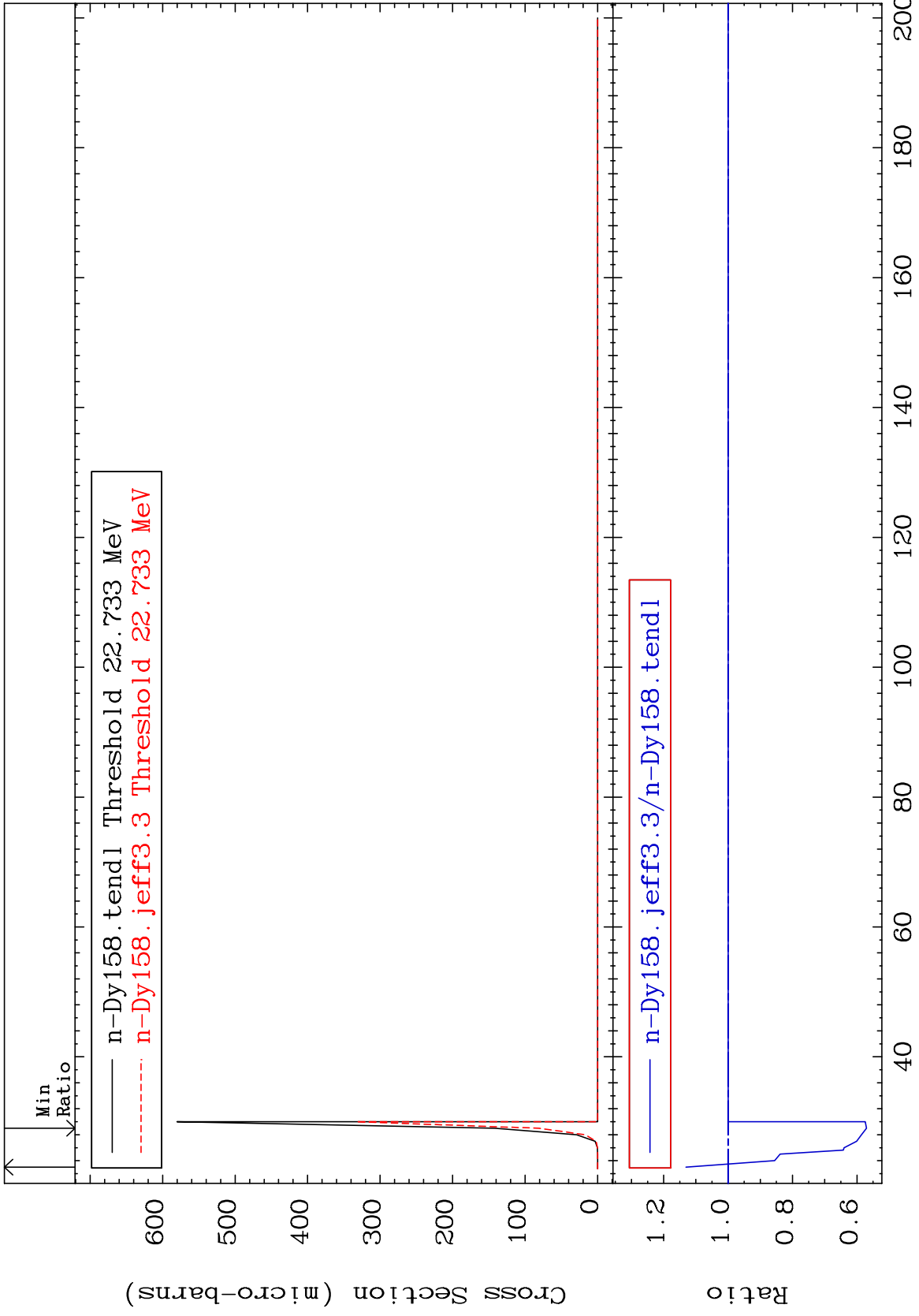
Incident Energy (eV)

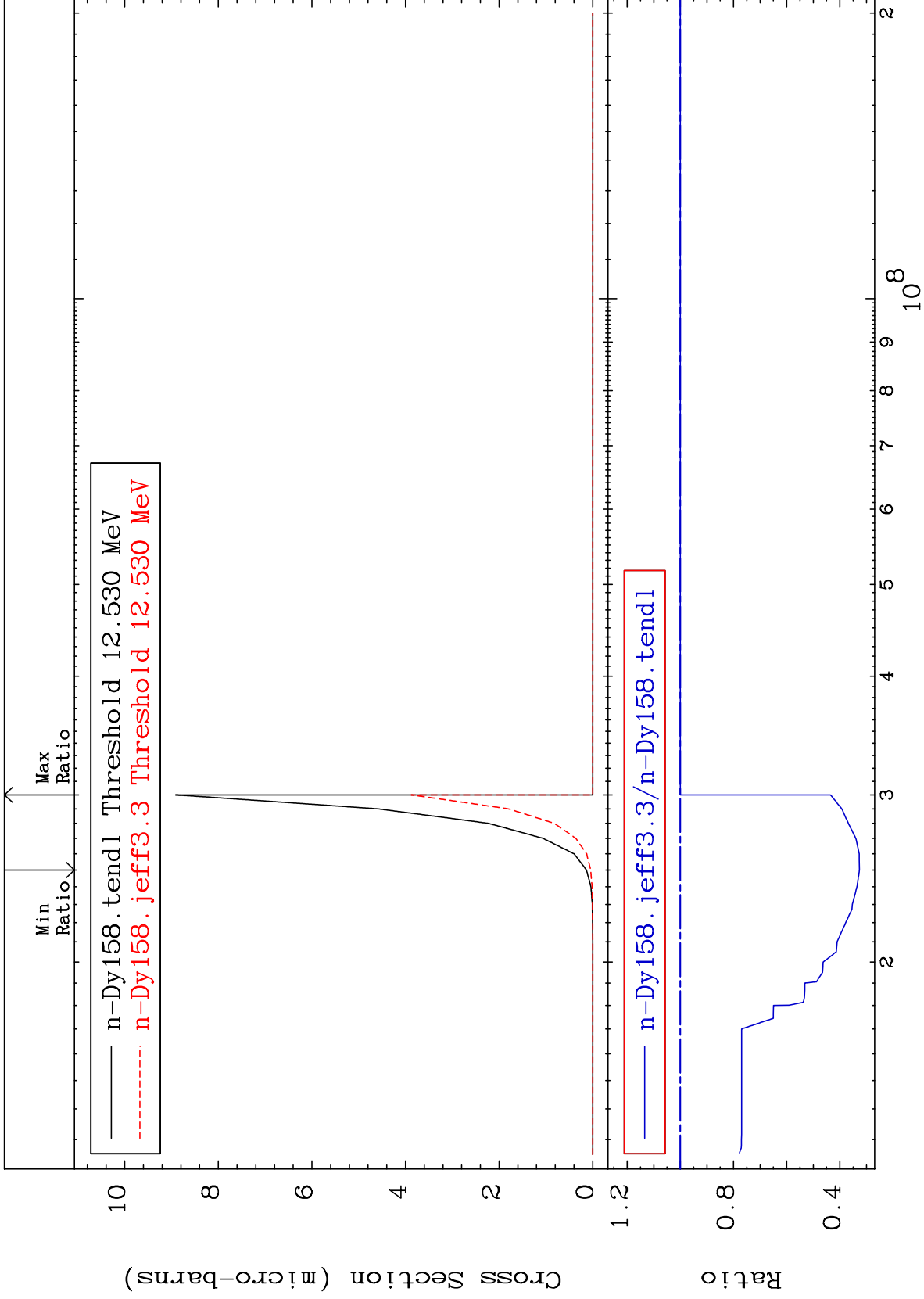
66-Dy-158

MAT 6631

(n,3n) p
Cross Section

66-Dy-158
-42.97 To 13.08 %

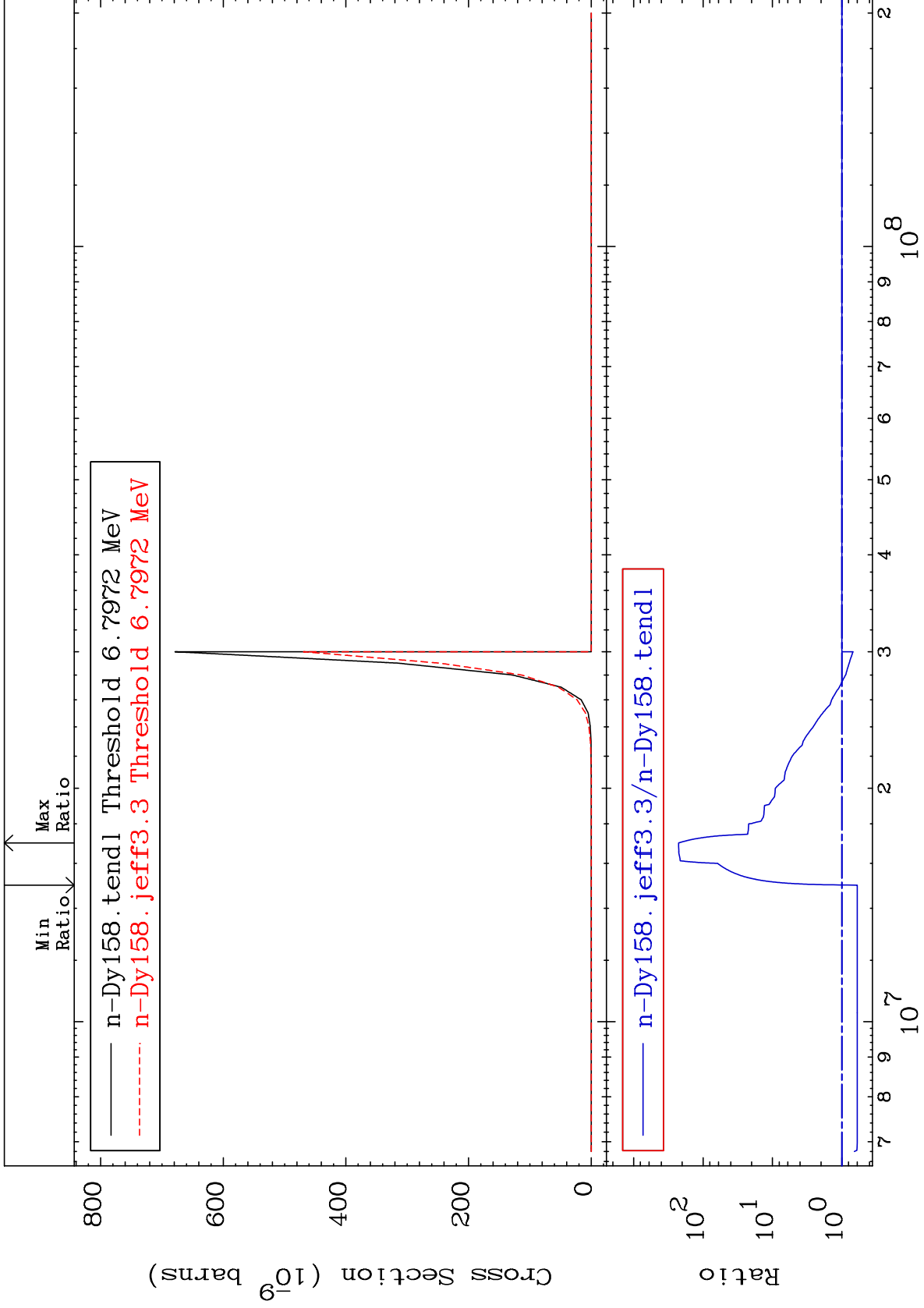




MAT 6631

(n,n') p α
Cross Section

66-Dy-158
-39.98 To 9999. %



20

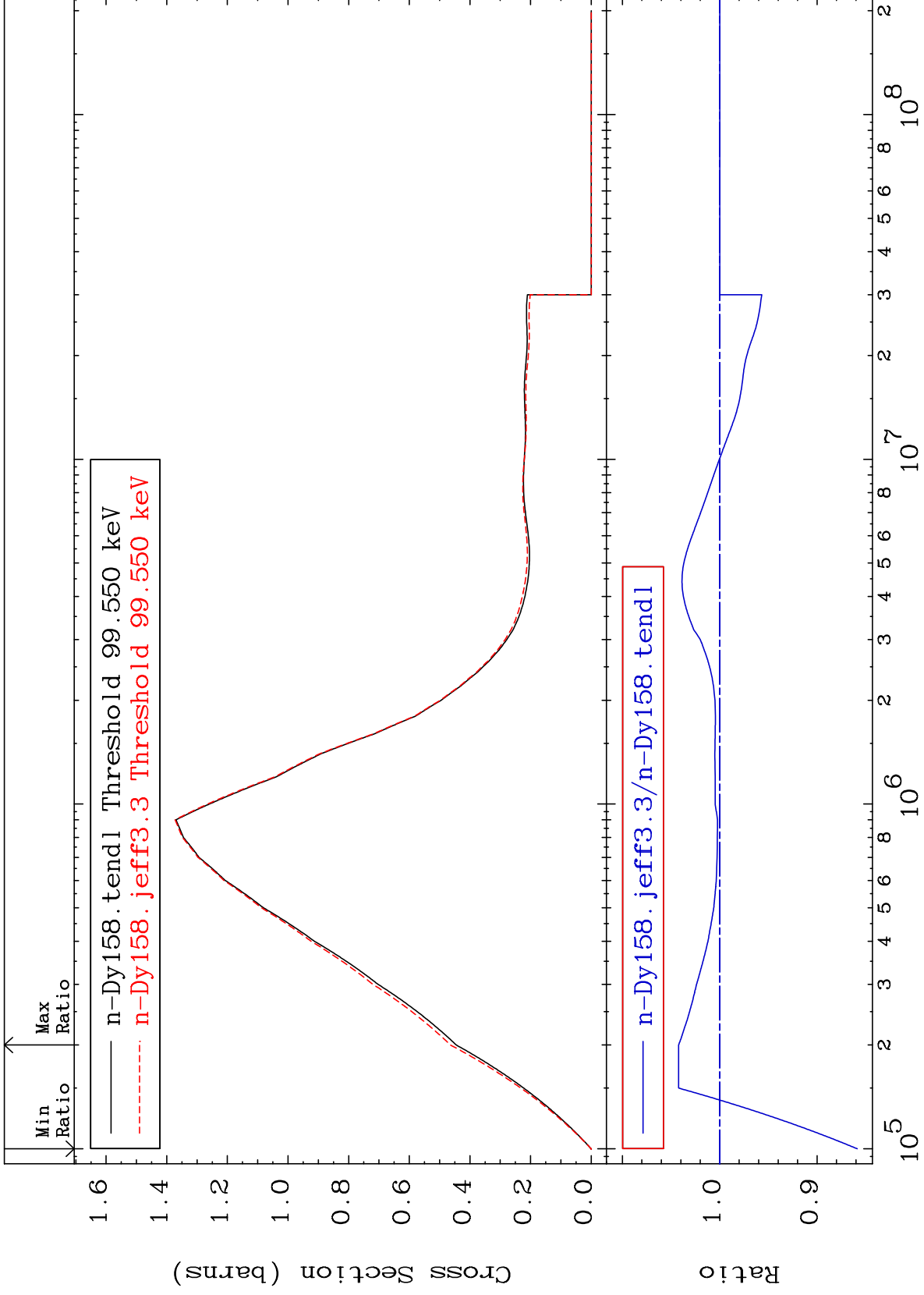
Incident Energy (eV)

66-Dy-158

MAT 6631

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

66-Dy-158
-14.13 To 4.223 %



21

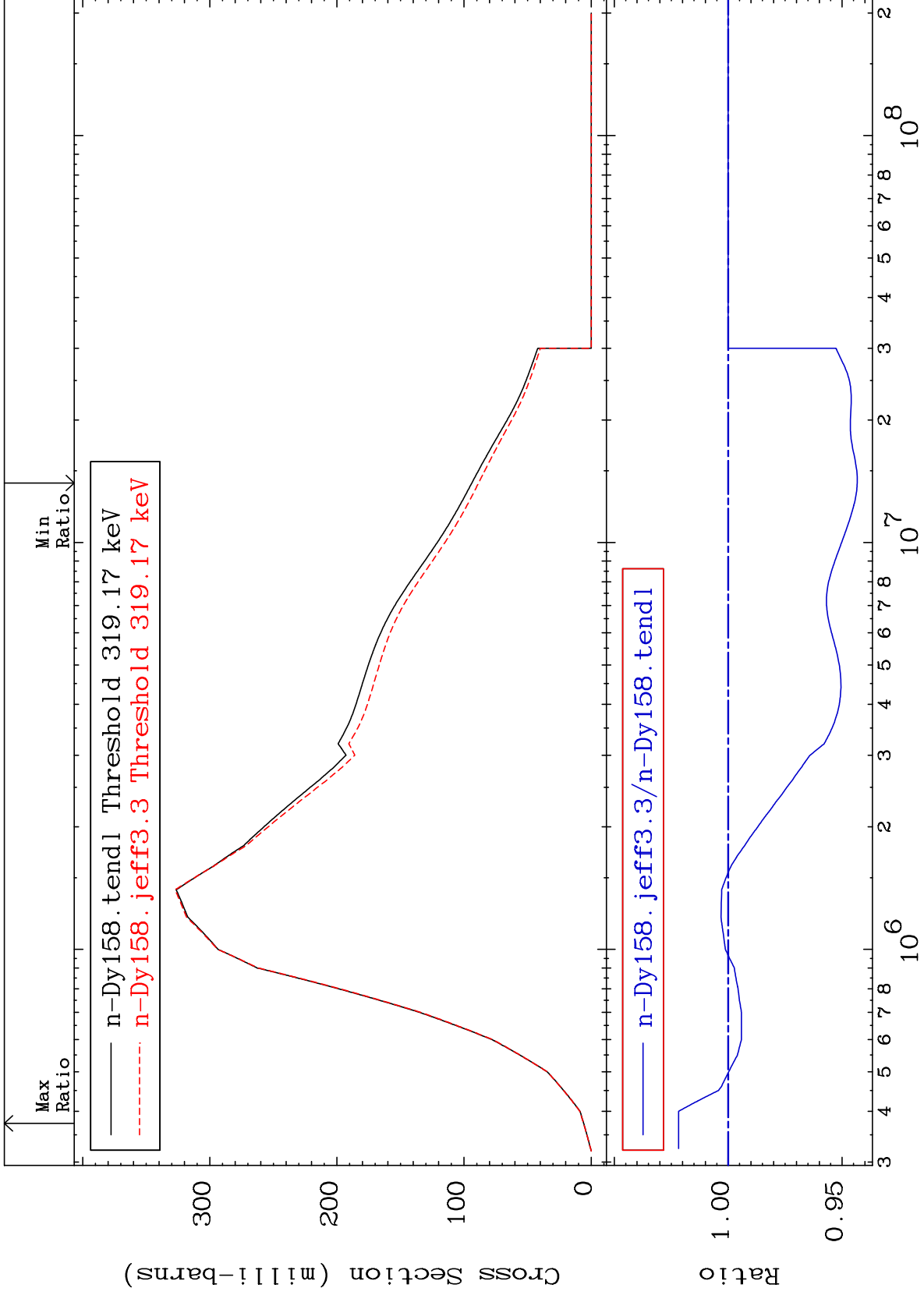
Incident Energy (eV)

66-Dy-158

MAT 6631

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

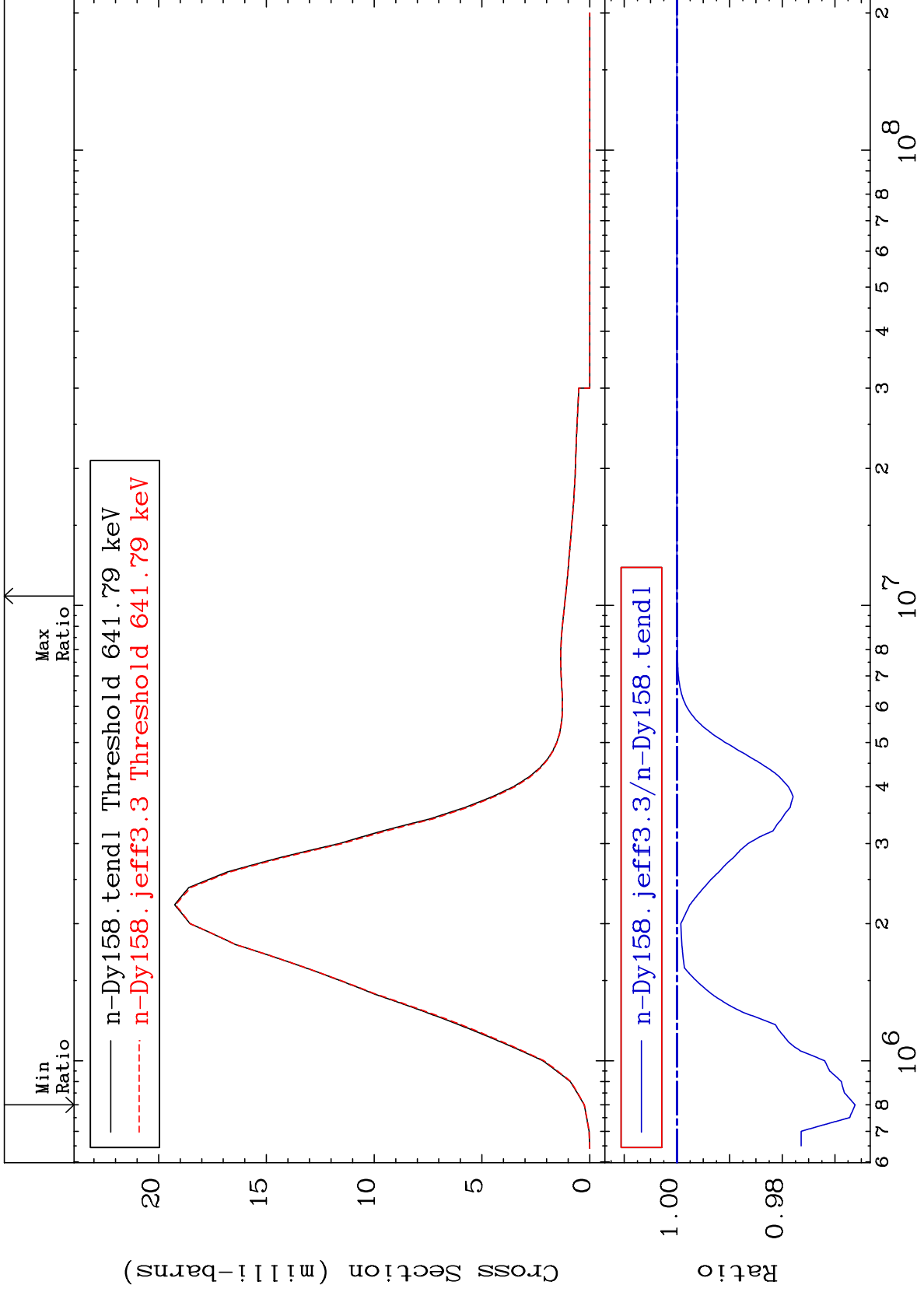
66-Dy-158
-5.666 To 2.175 %



MAT 6631

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

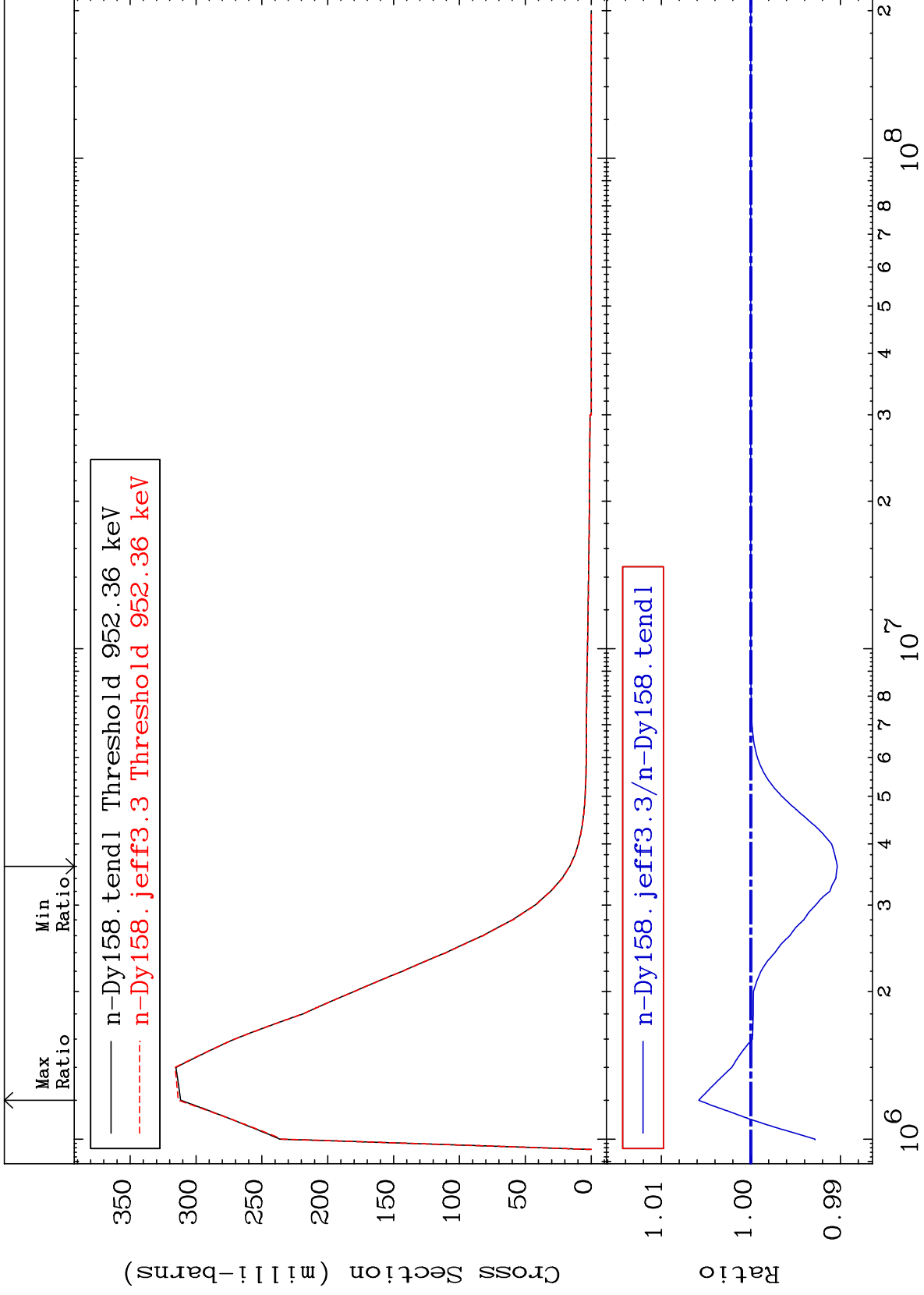
66-Dy-158
-3.382 To 0.000 %



MAT 6631

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

66-Dy-158
-0.965 To 0.583 %



24

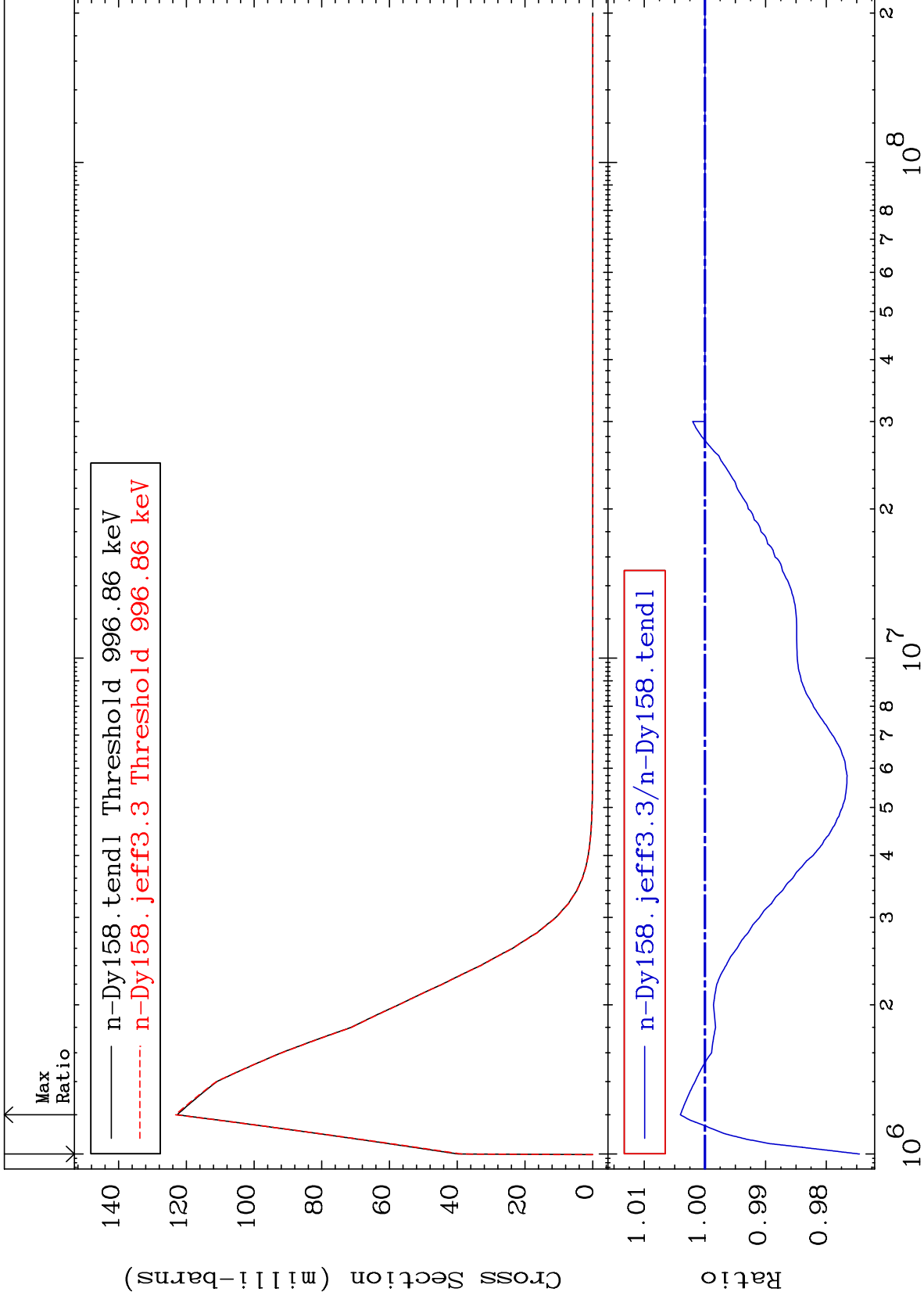
Incident Energy (eV)

66-Dy-158

MAT 6631

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

66-Dy-158
-2.546 To 0.406 %



25

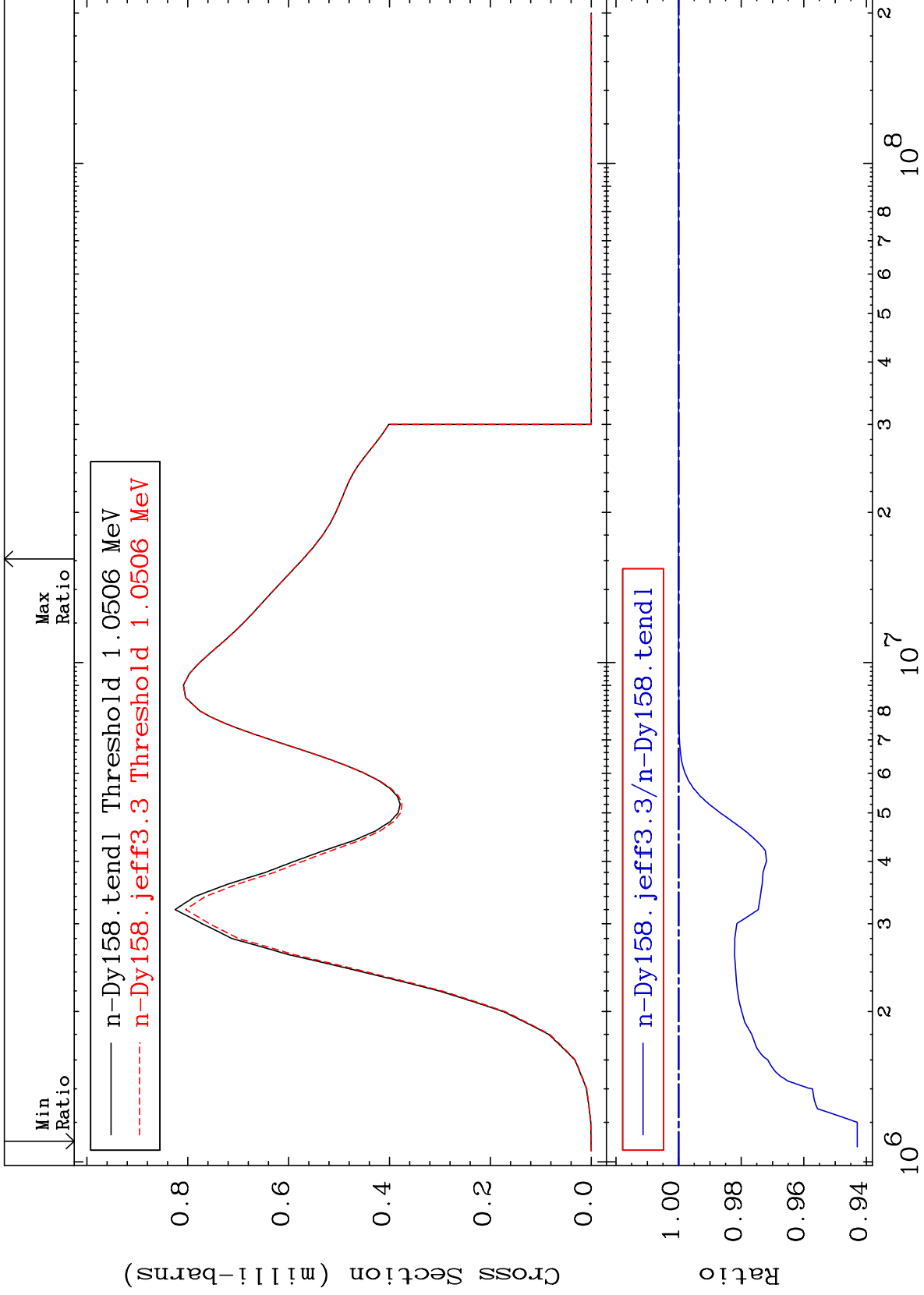
Incident Energy (eV)

66-Dy-158

MAT 6631

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

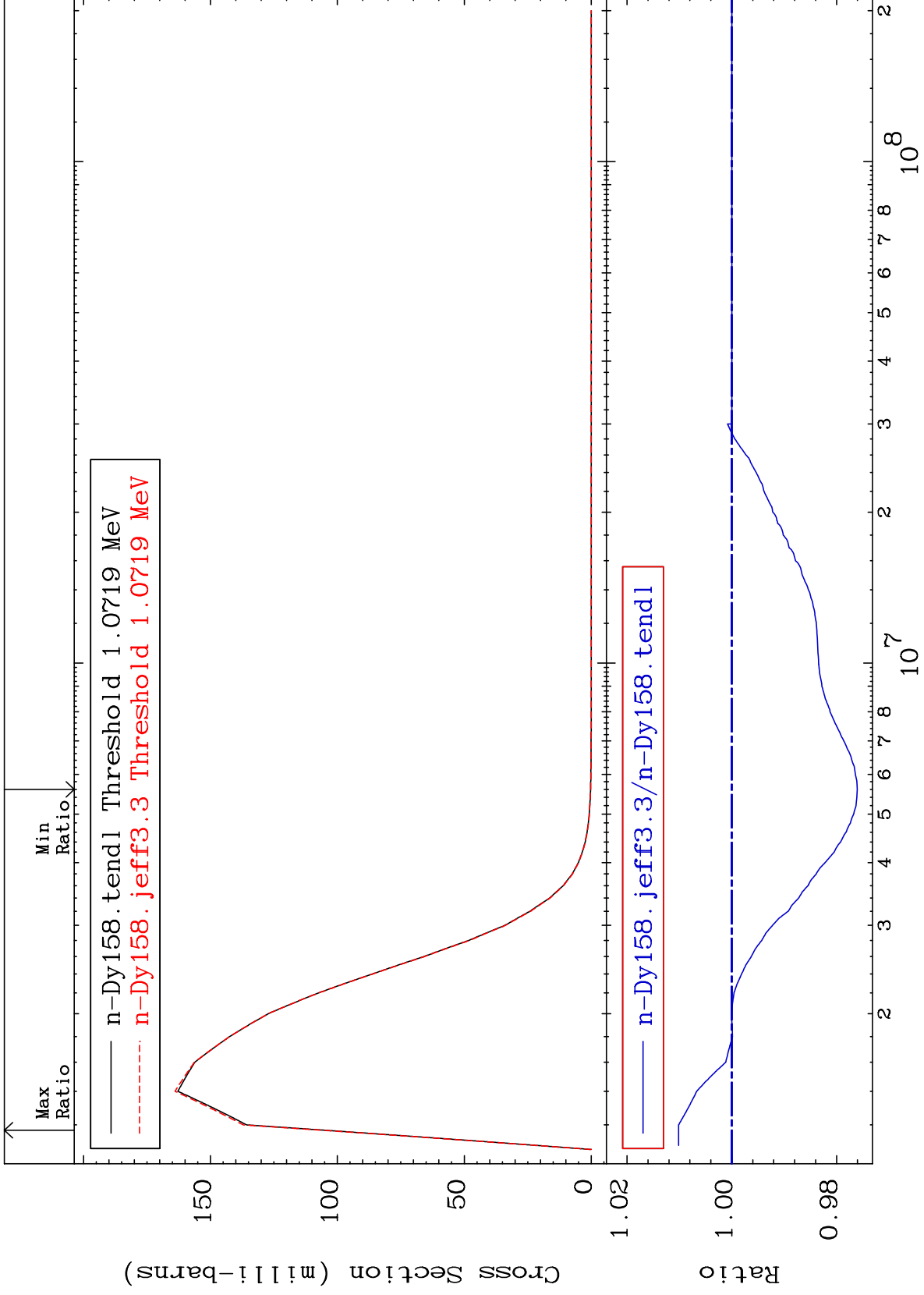
66-Dy-158
-5.707 To 0.000 %



MAT 6631

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

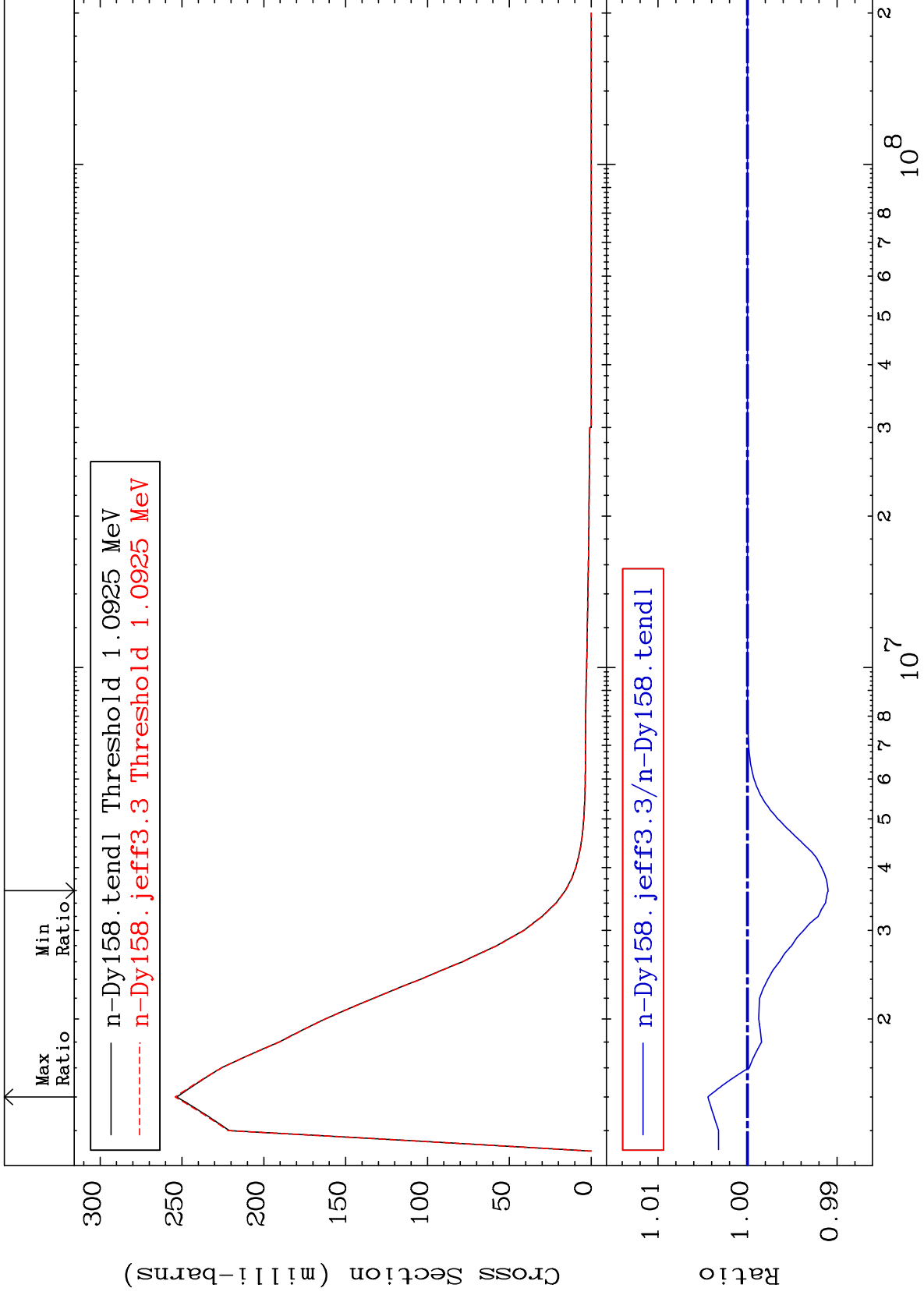
66-Dy-158
-2.394 To 1.015 %



MAT 6631

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

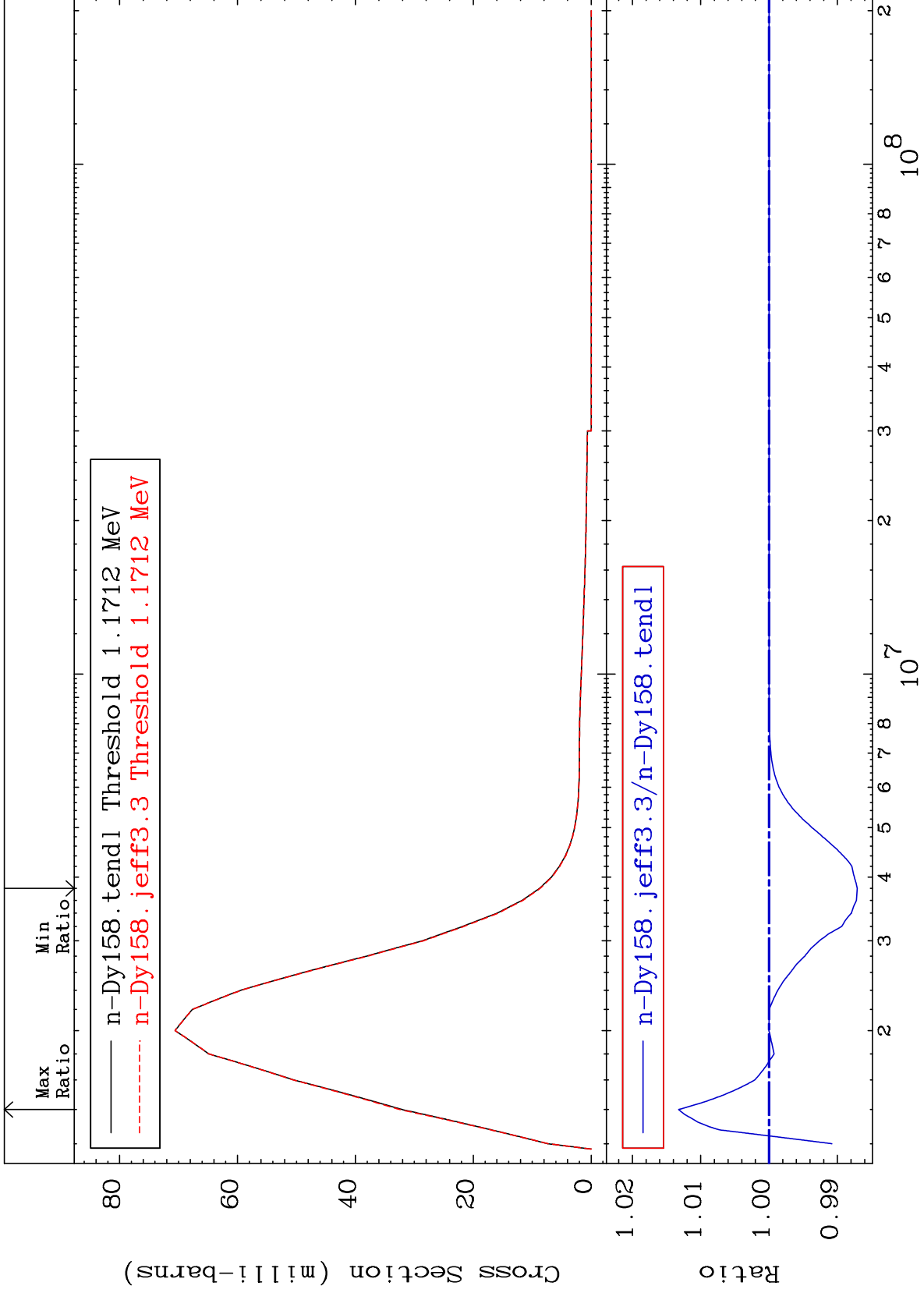
66-Dy-158
-0.900 To 0.442 %



MAT 6631

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

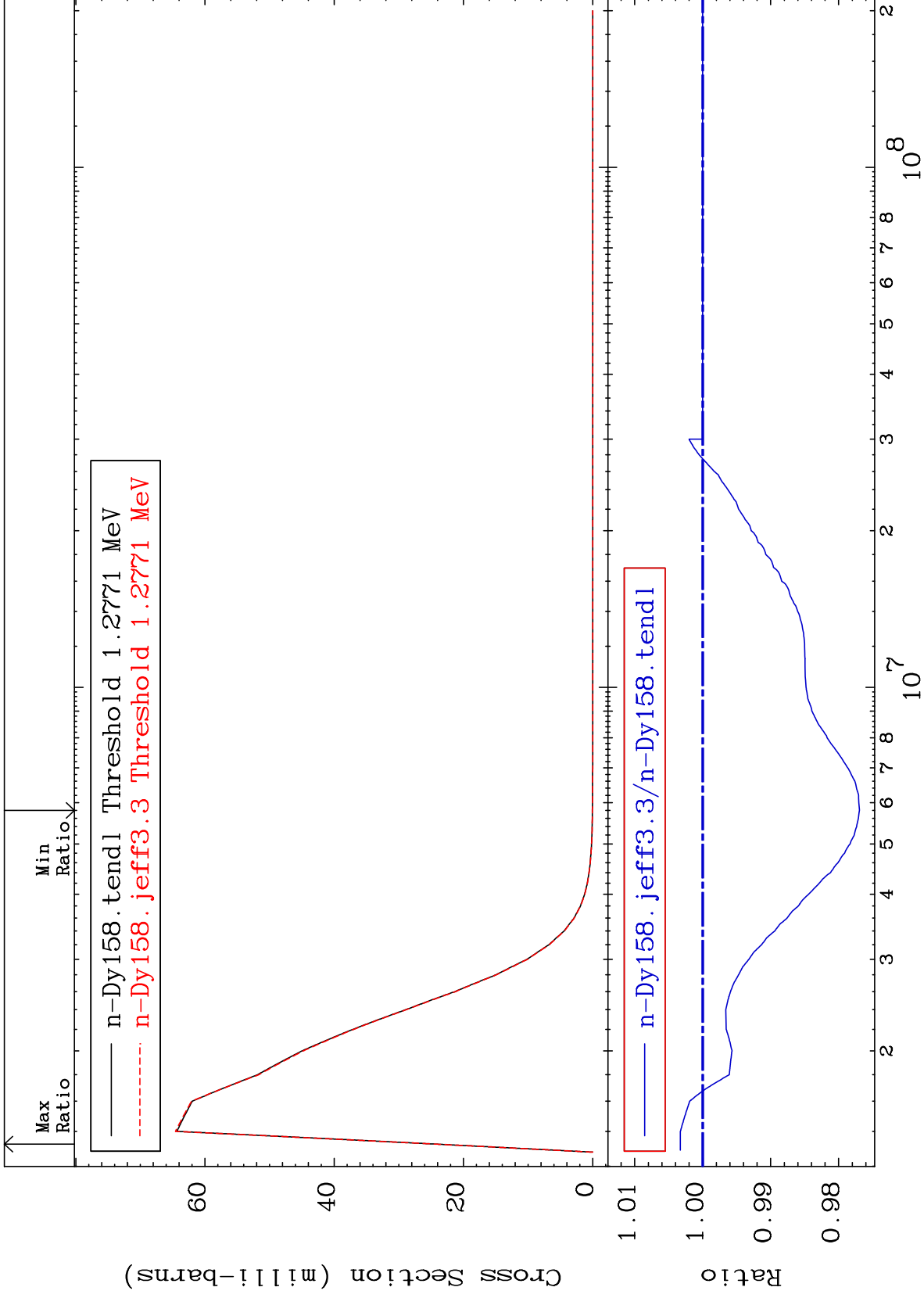
66-Dy-158
-1.292 To 1.324 %



MAT 6631

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

66-Dy-158
-2.306 To 0.329 %



30

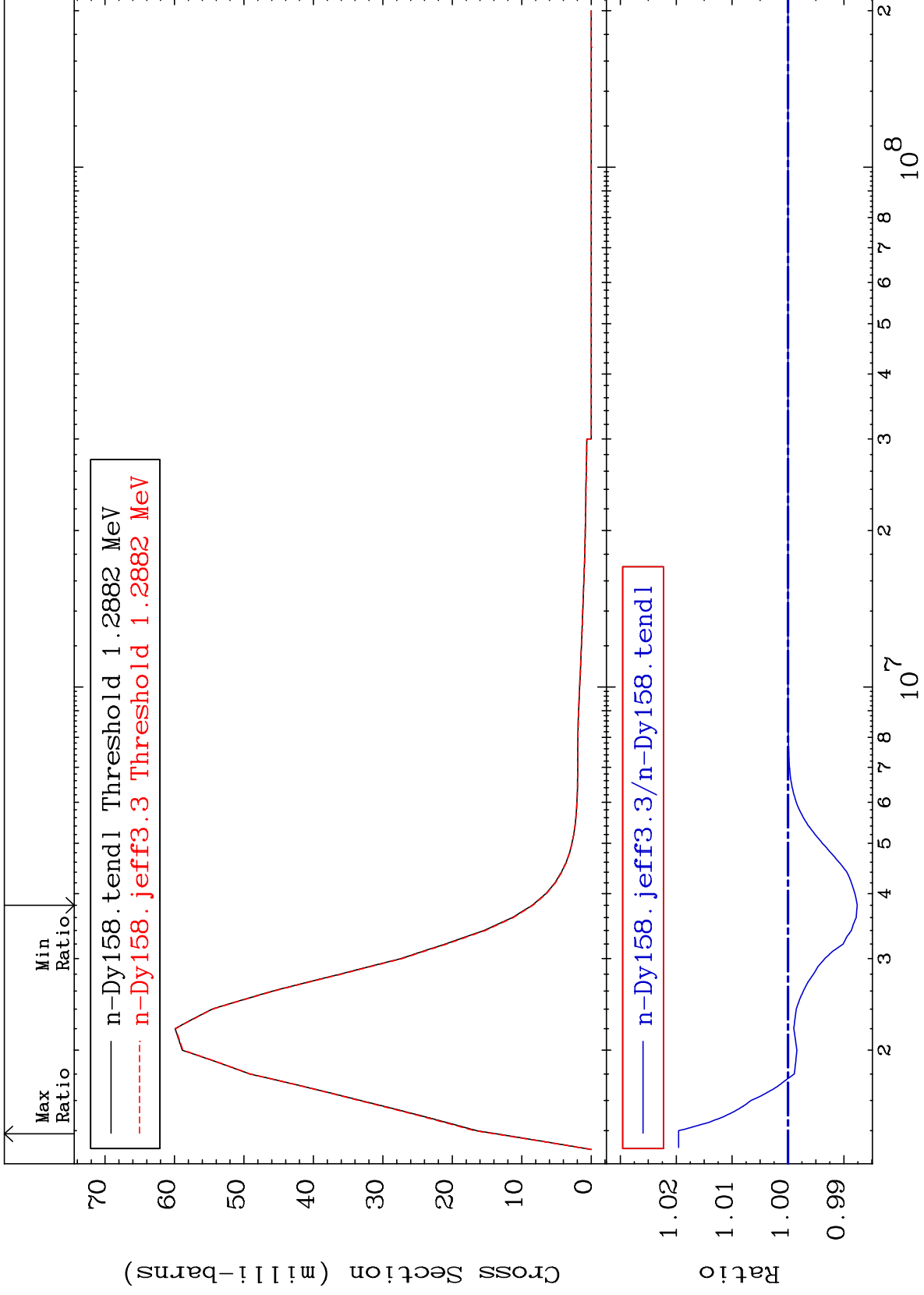
Incident Energy (eV)

66-Dy-158

MAT 6631

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

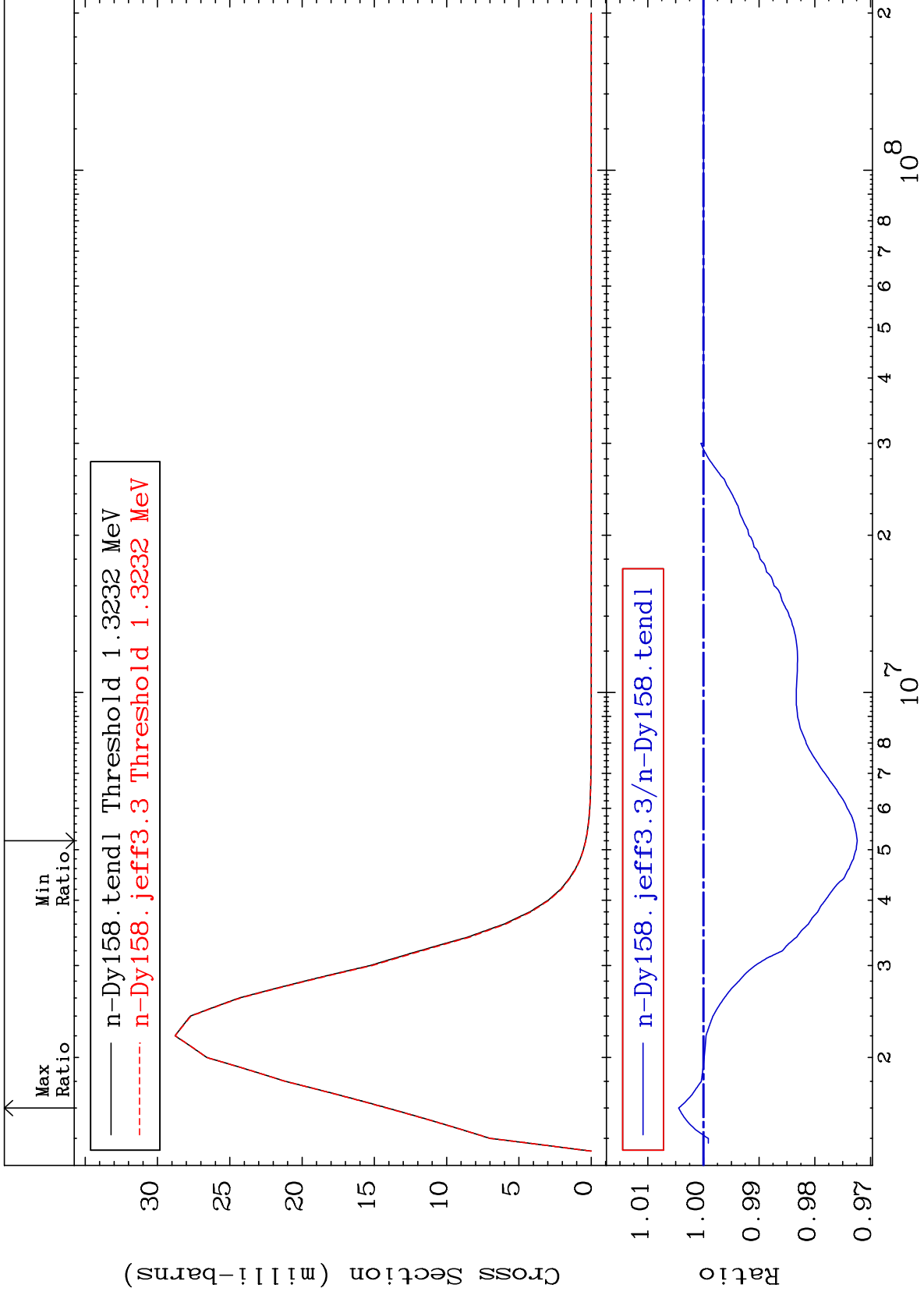
66-Dy-158
-1.240 To 1.957 %



MAT 6631

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

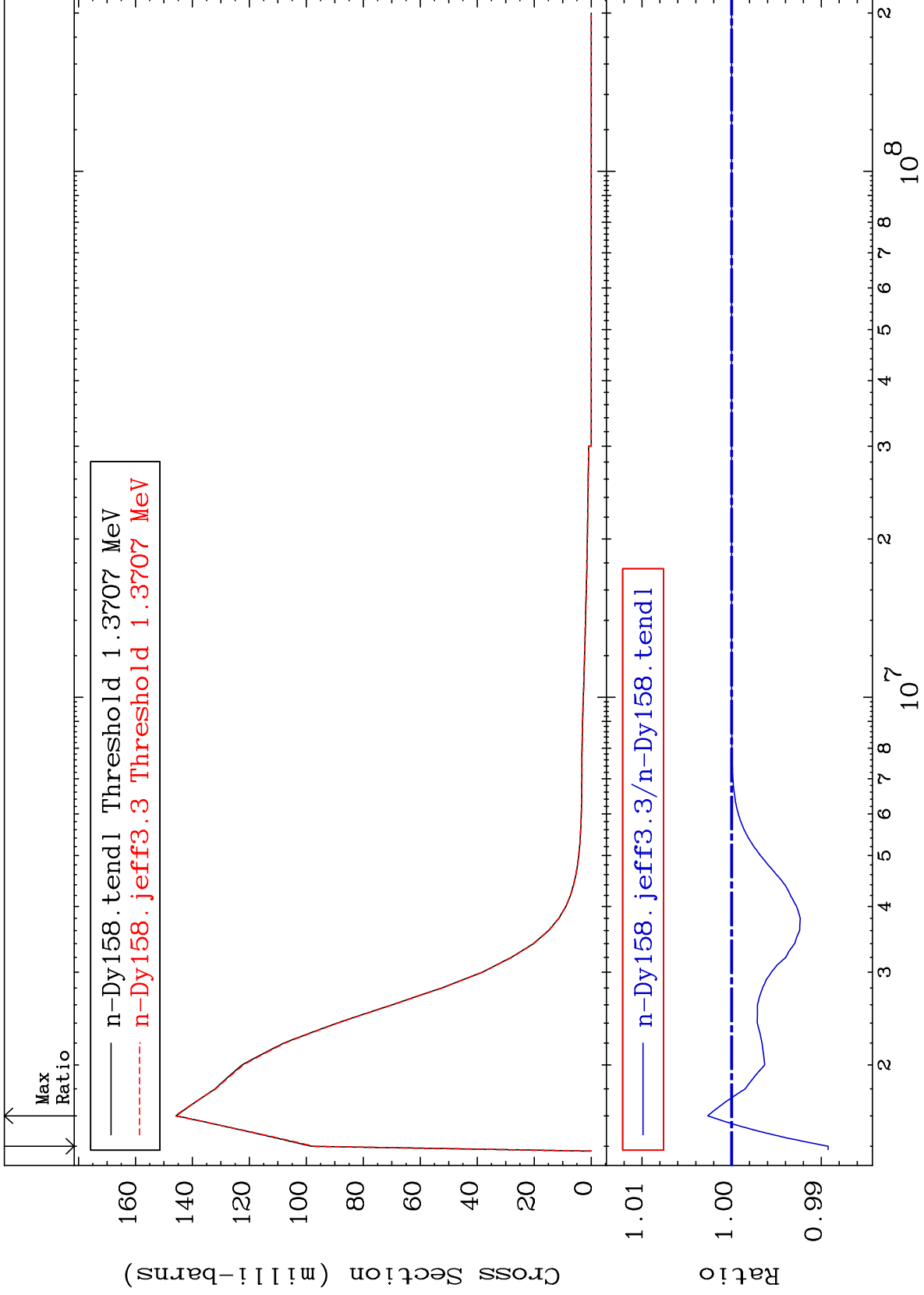
66-Dy-158
-2.762 To 0.446 %



MAT 6631

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

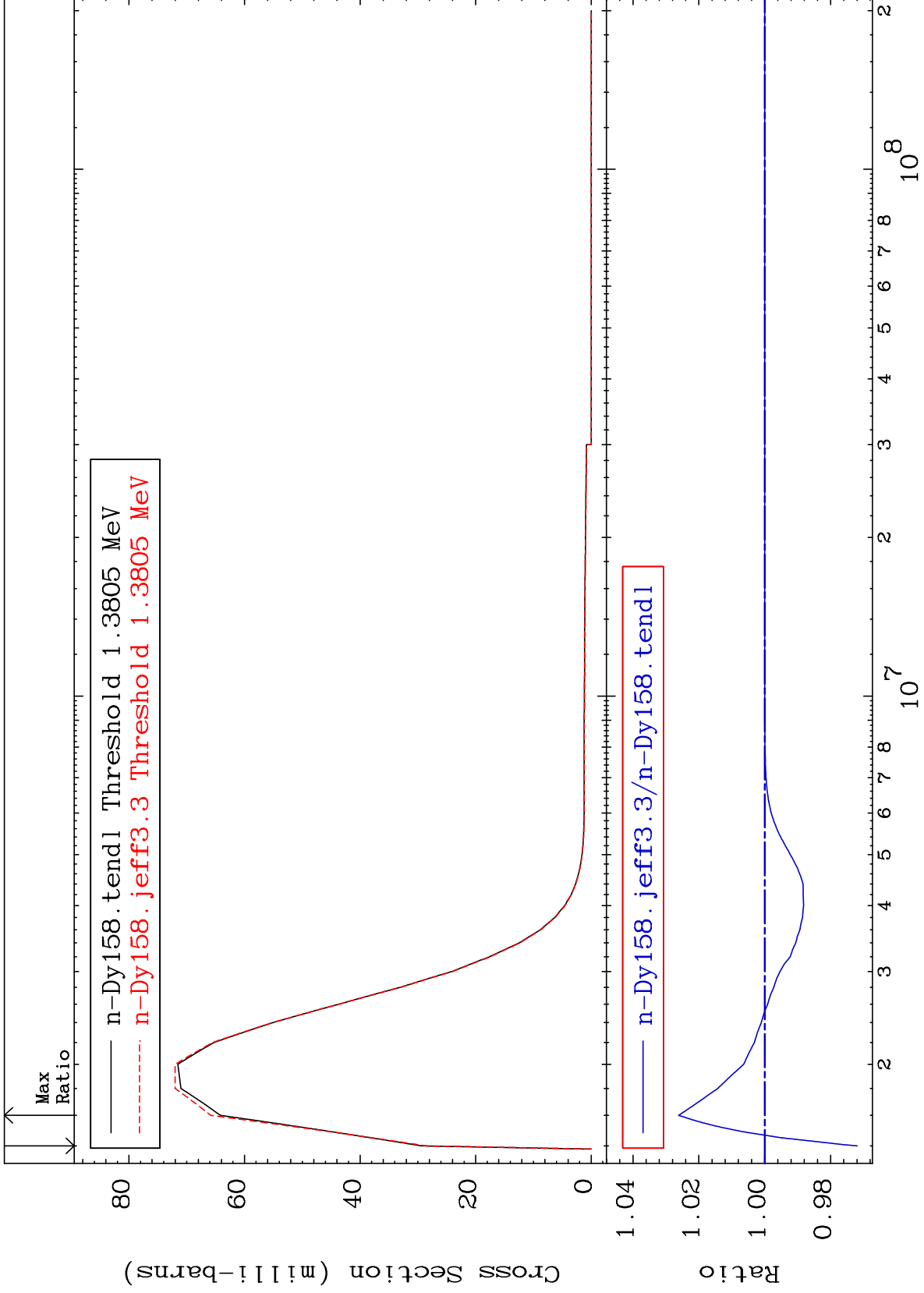
66-Dy-158
-1.077 To 0.267 %



MAT 6631

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

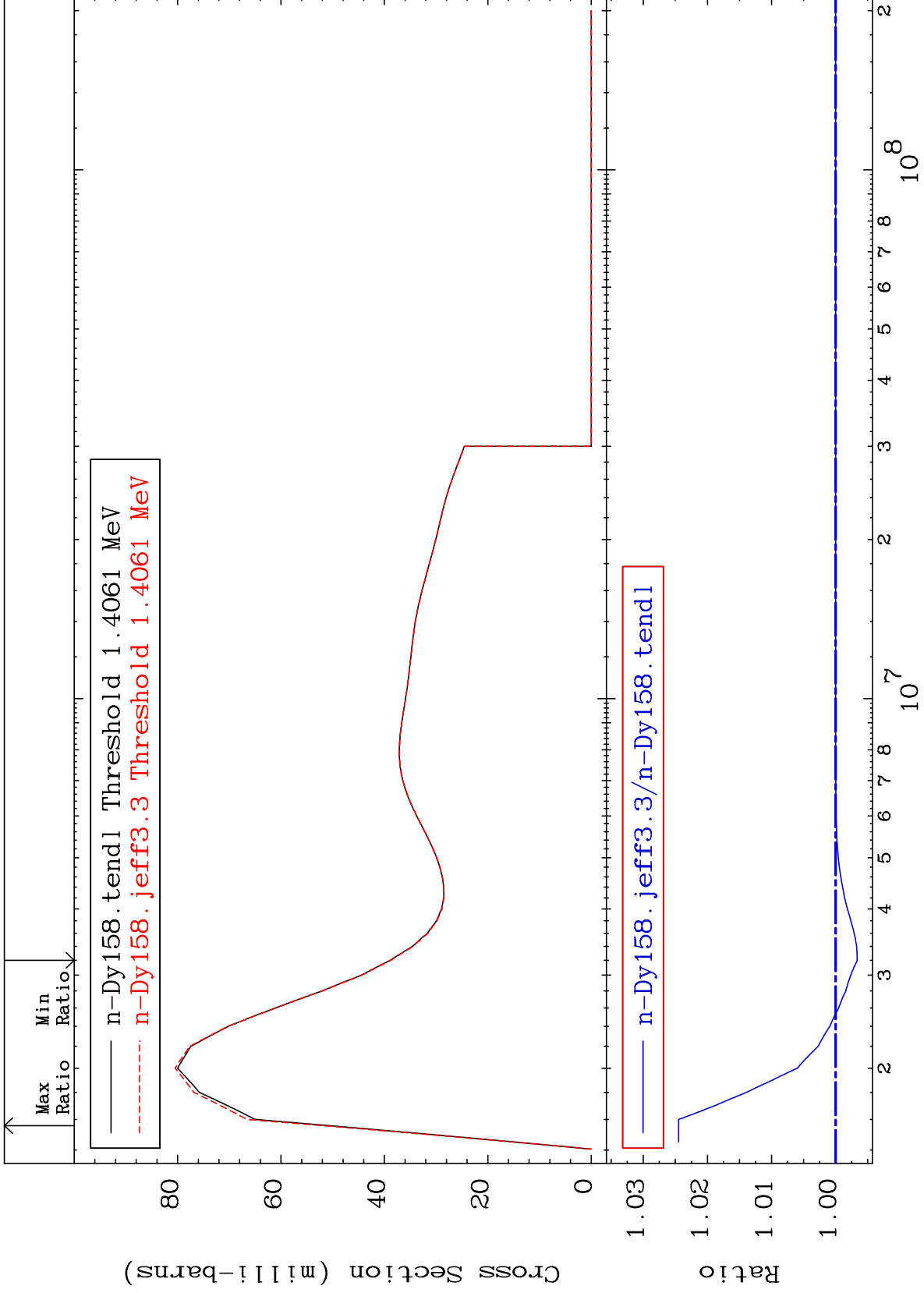
66-Dy-158
-2.809 To 2.614 %



MAT 6631

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

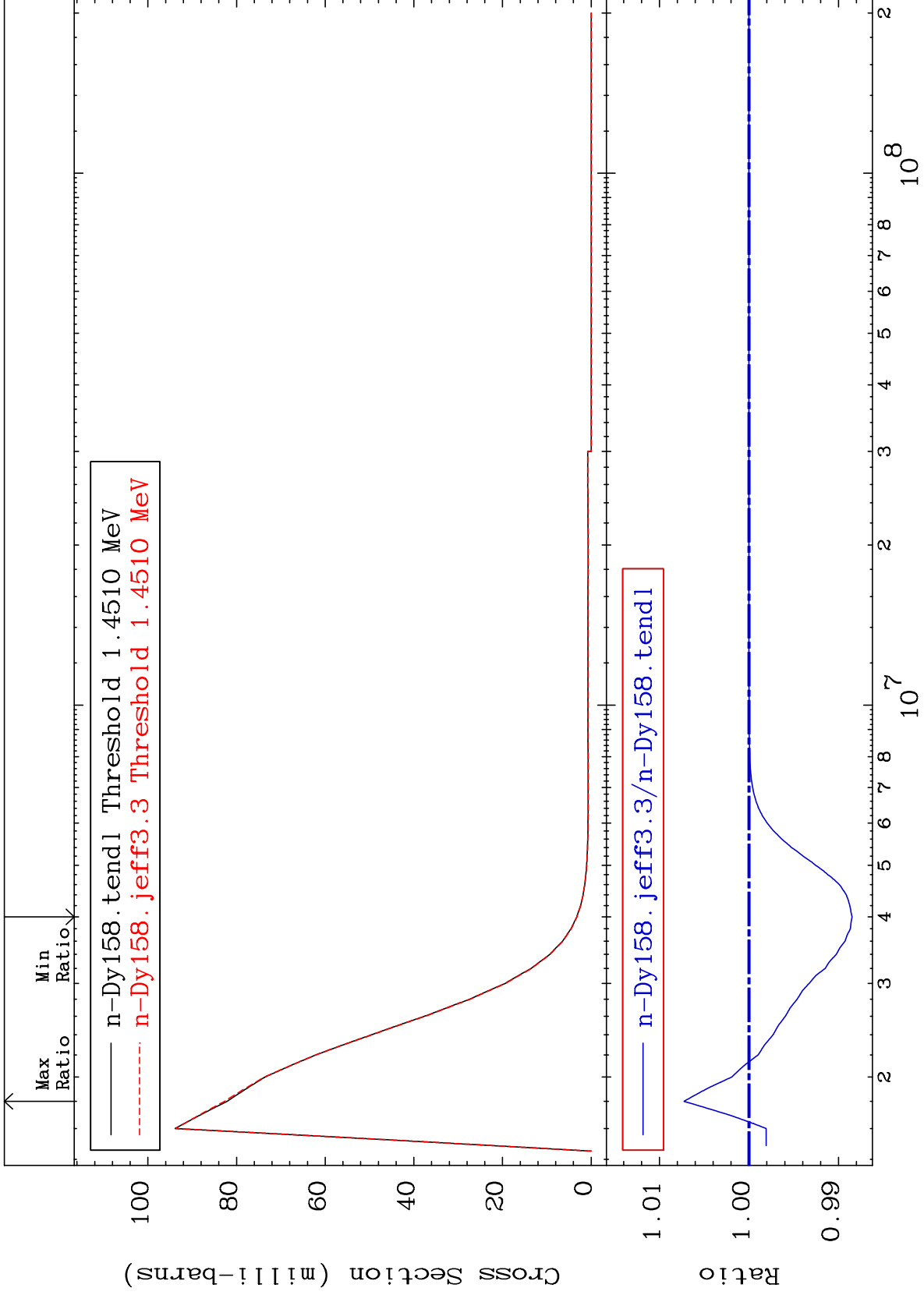
66-Dy-158
-0.337 To 2.449 %



MAT 6631

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

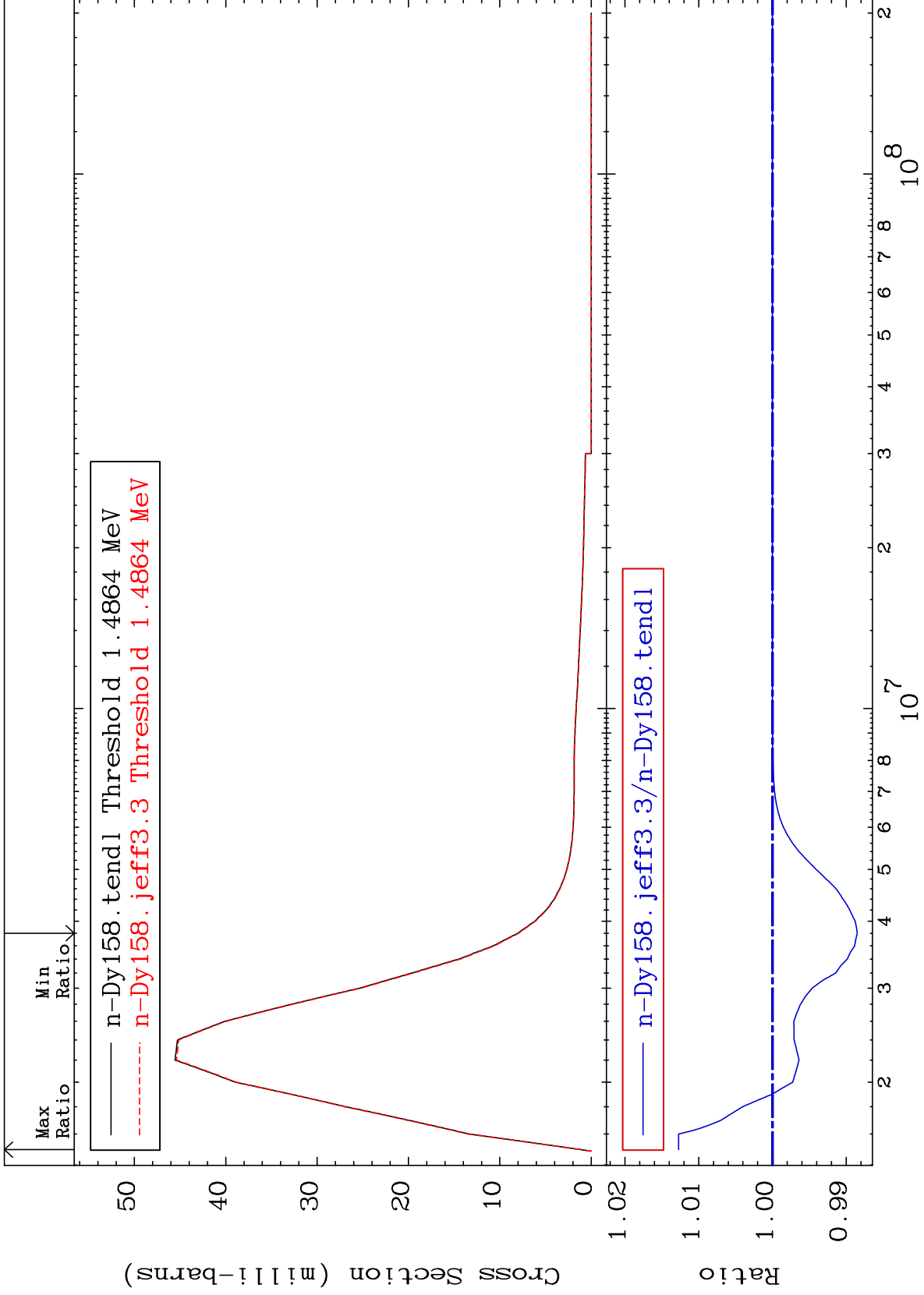
66-Dy-158
-1.151 To 0.727 %

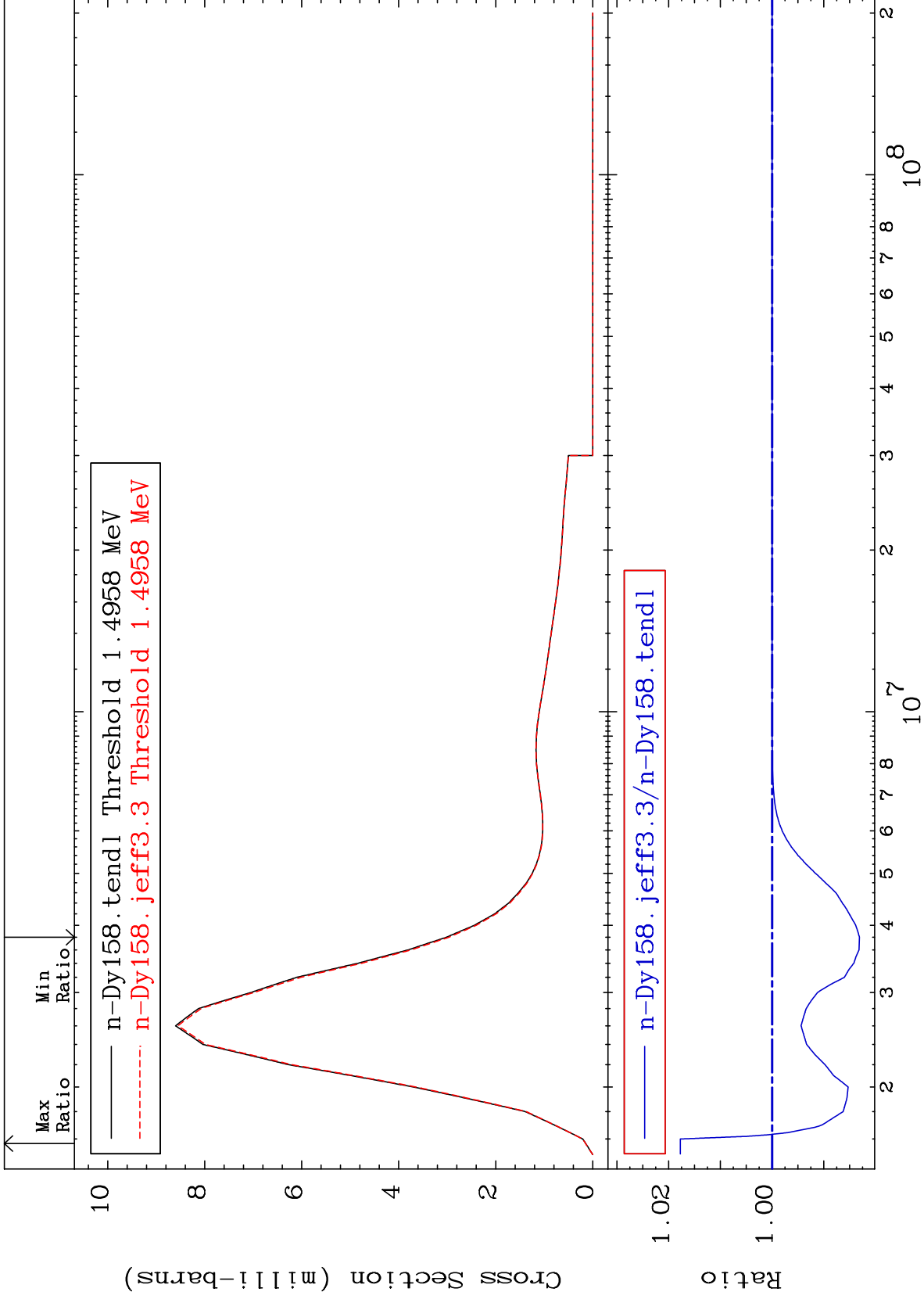


MAT 6631

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

66-Dy-158
-1.150 To 1.272 %

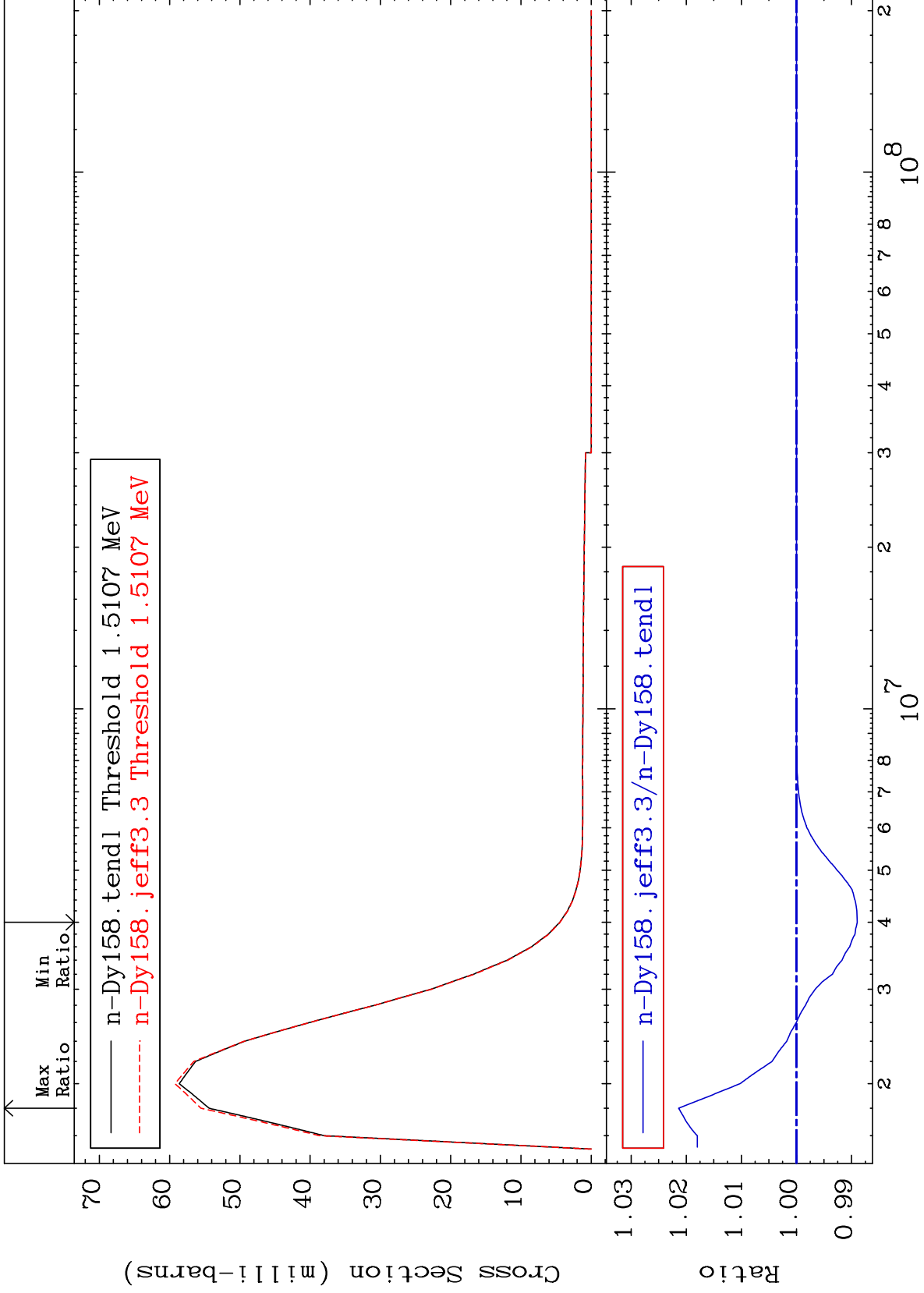




MAT 6631

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

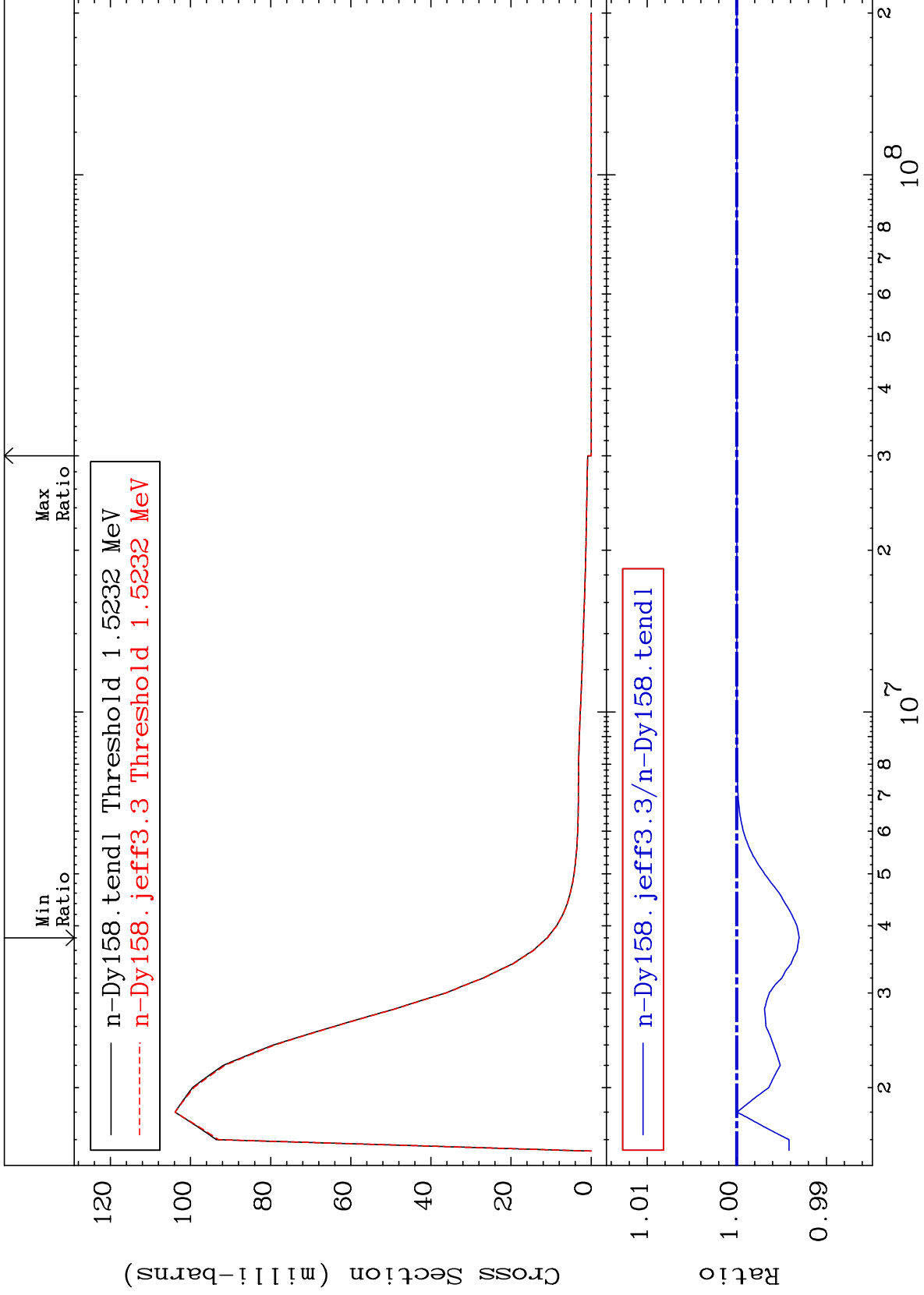
66-Dy-158
-1.104 To 2.137 %



MAT 6631

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

66-Dy-158
-0.696 To 0.000 %



40

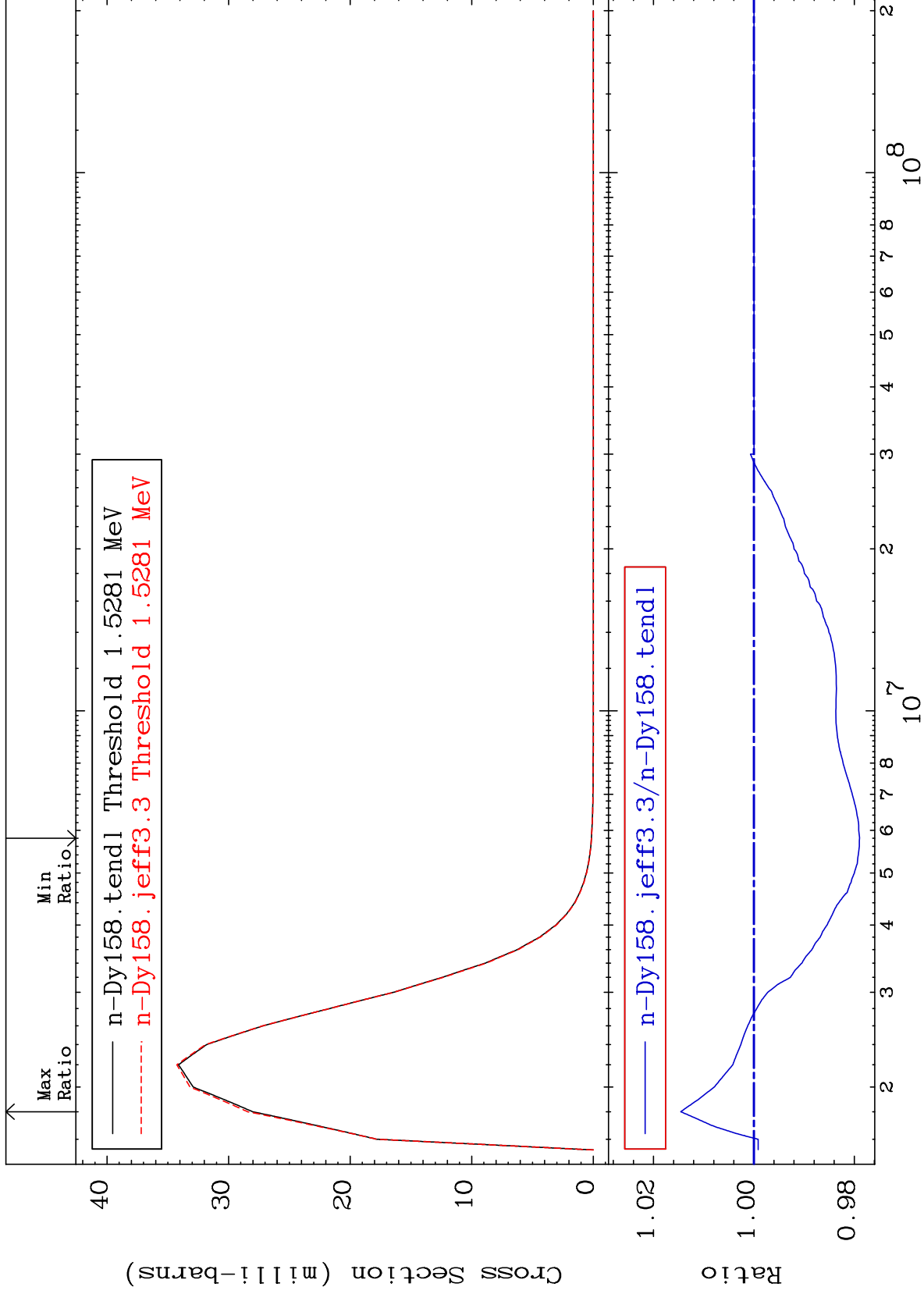
Incident Energy (eV)

66-Dy-158

MAT 6631

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

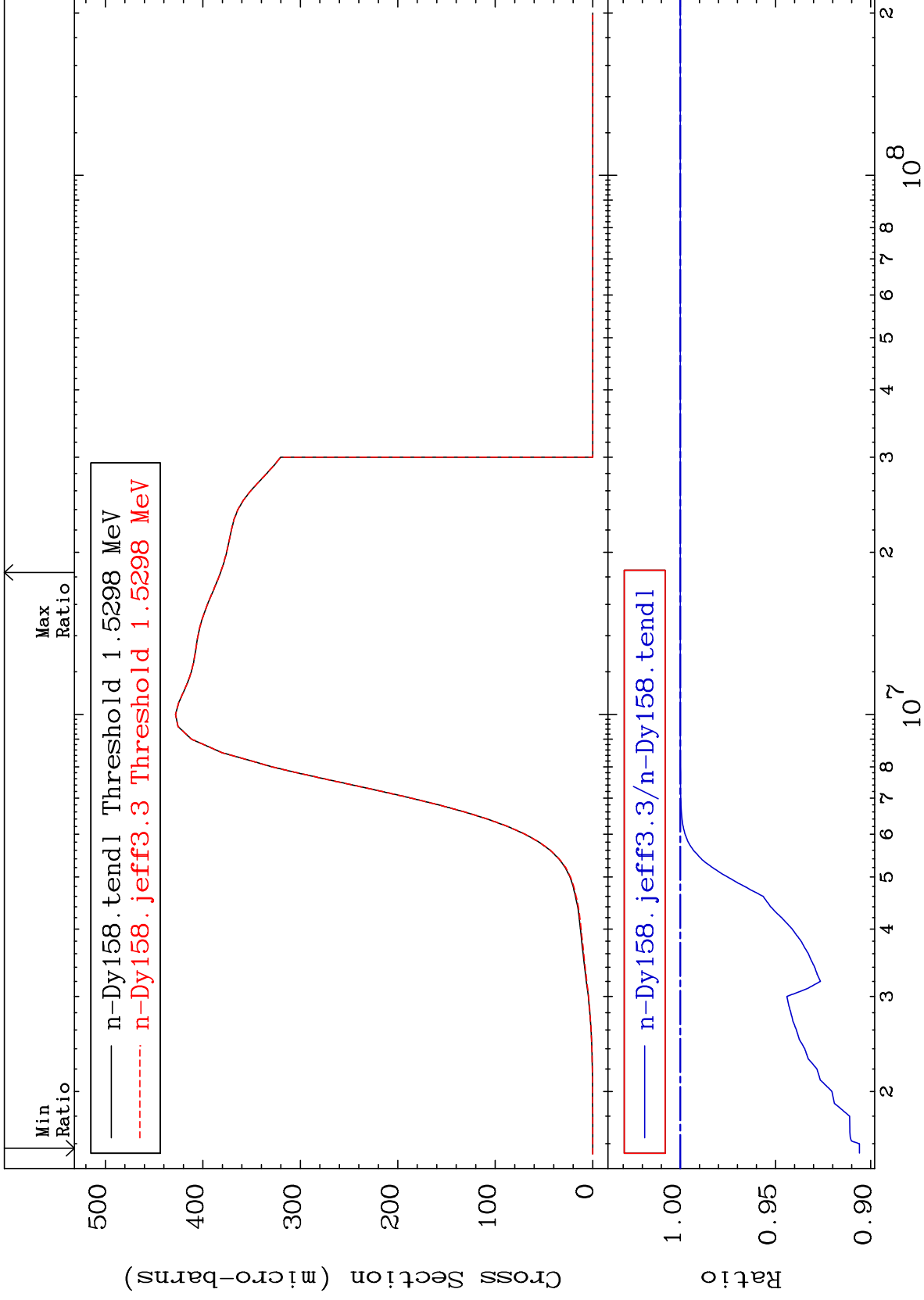
66-Dy-158
-2.105 To 1.457 %



MAT 6631

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

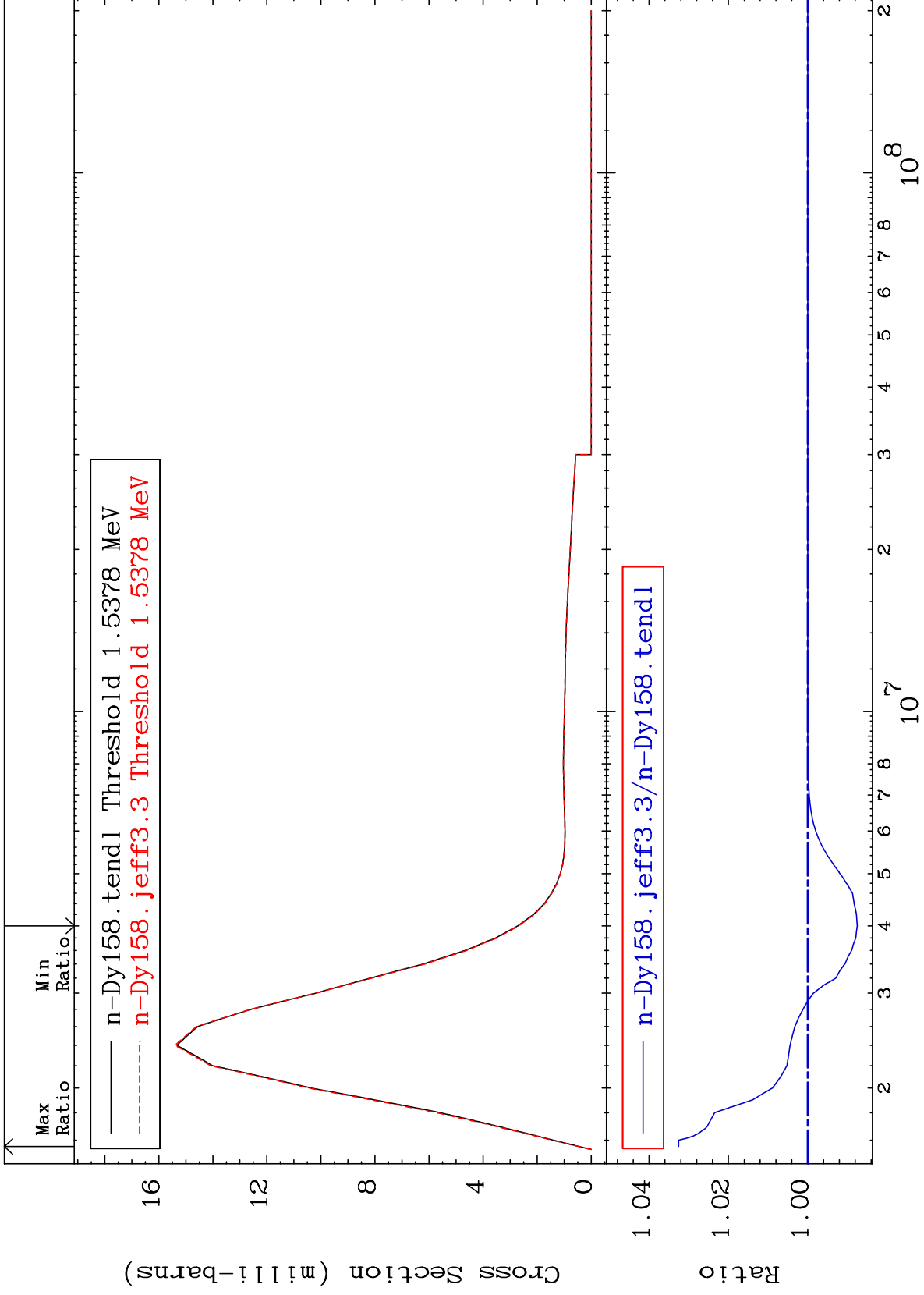
66-Dy-158
-9.405 To 0.000 %

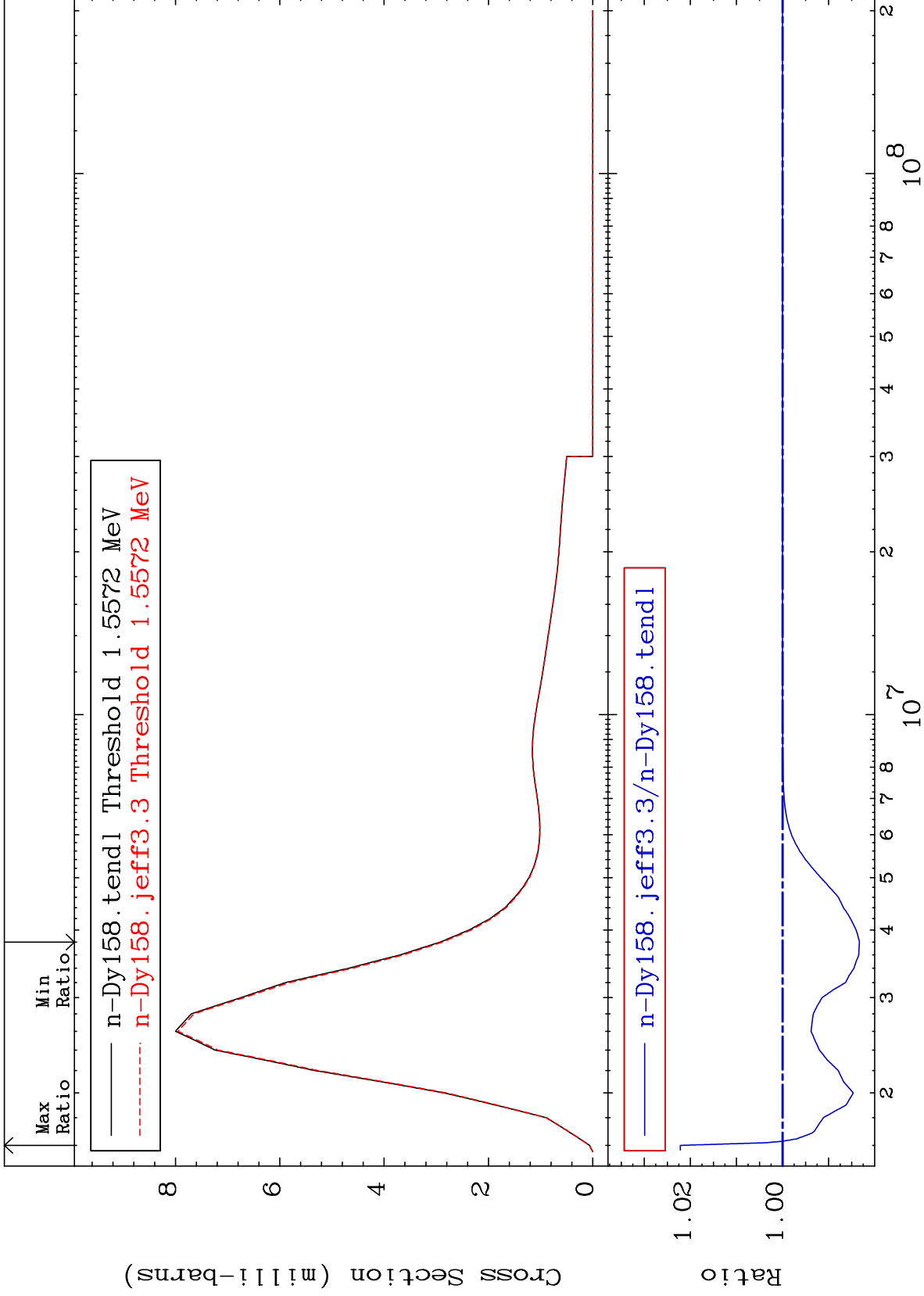


MAT 6631

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

66-Dy-158
-1.251 To 3.255 %

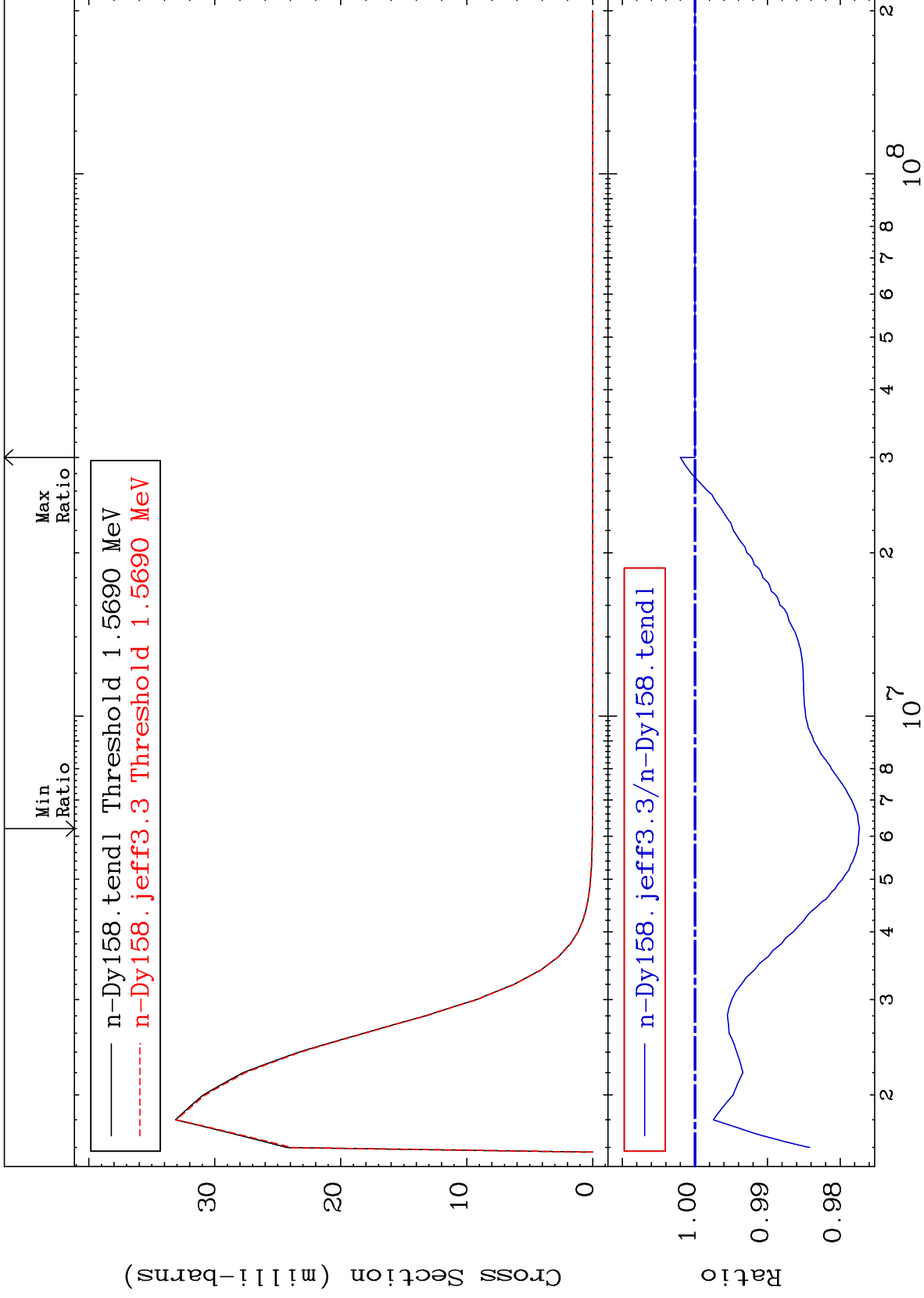




MAT 6631

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

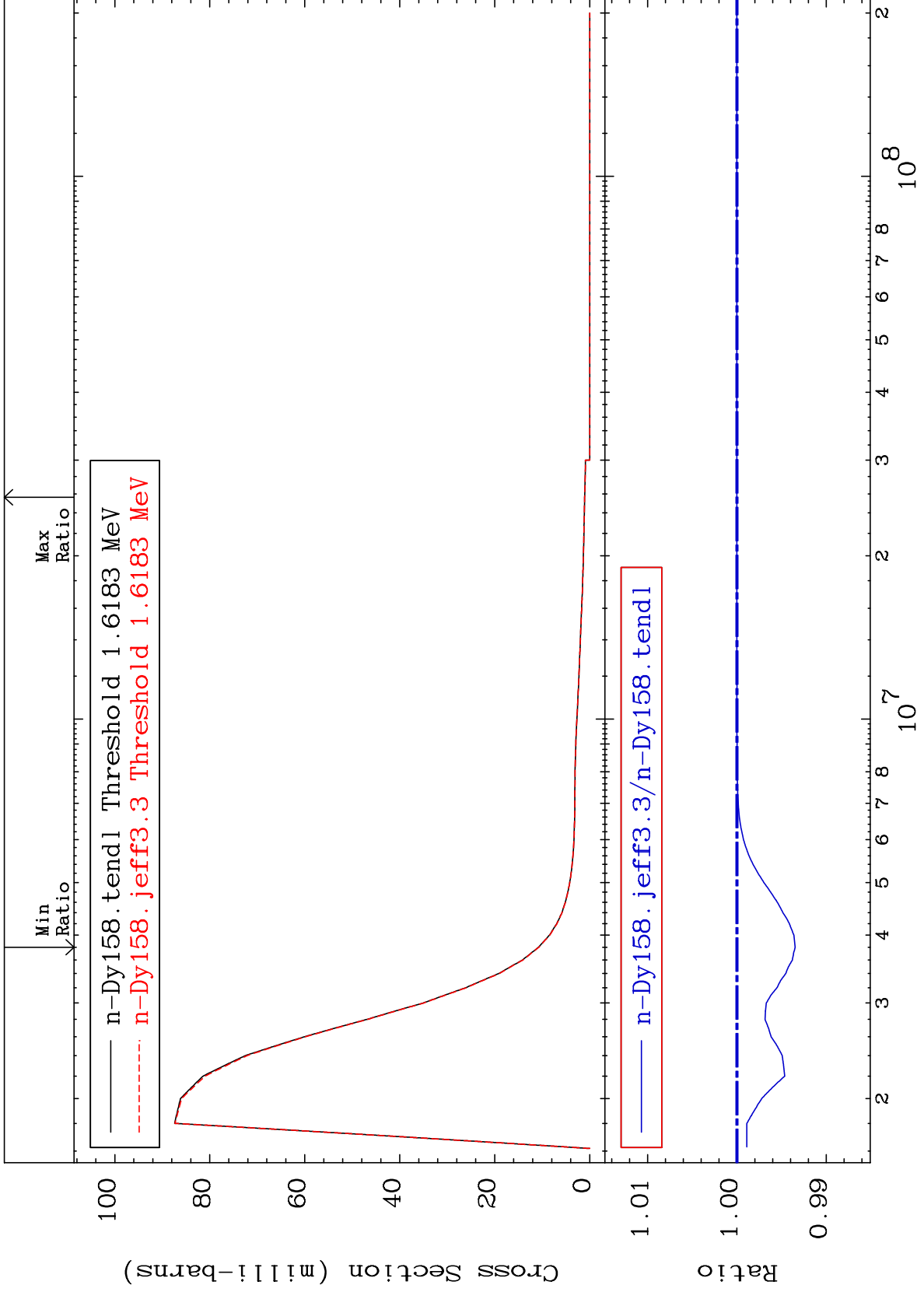
66-Dy-158
-2.265 To 0.200 %



MAT 6631

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

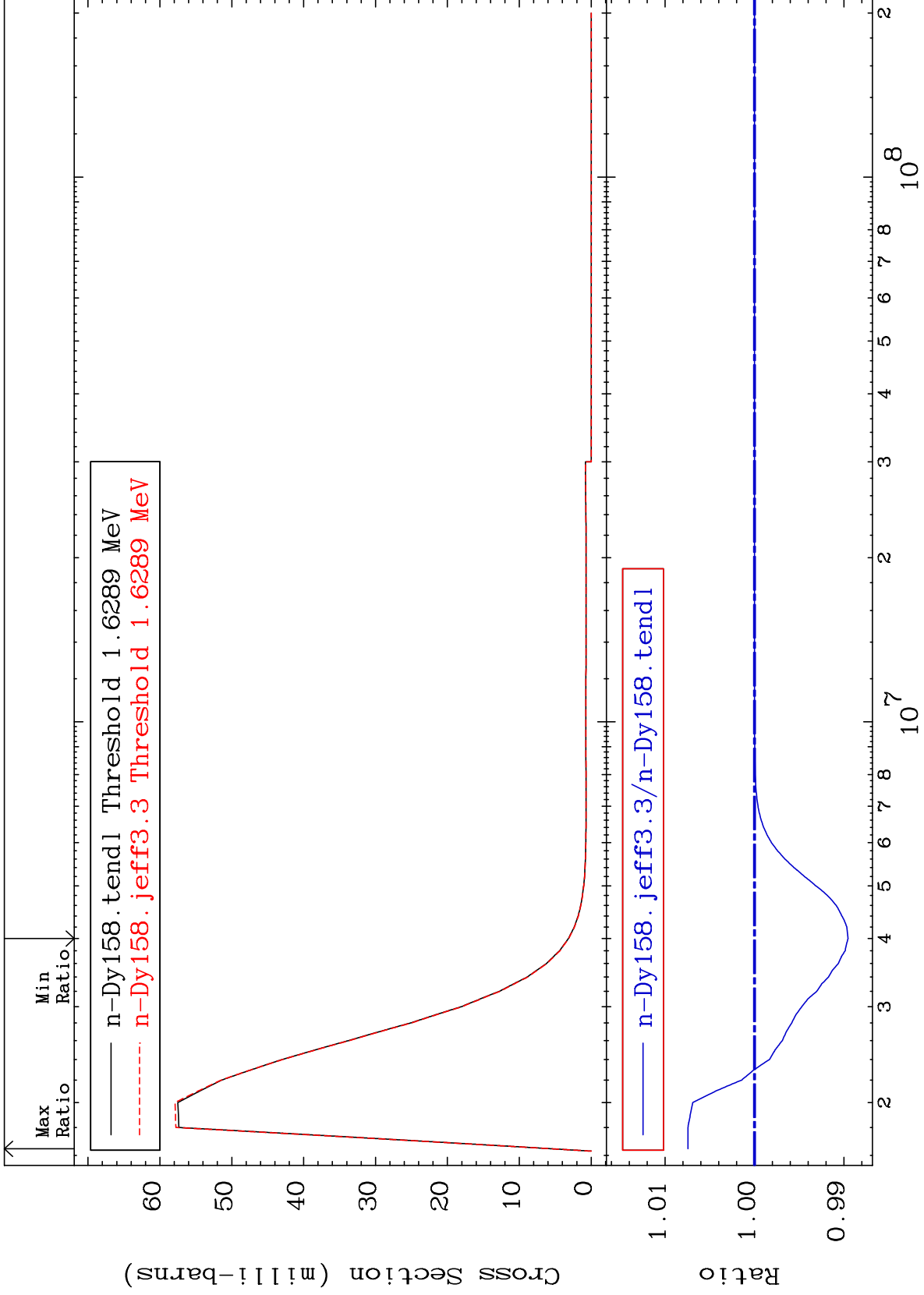
66-Dy-158
-0.651 To 0.000 %



MAT 6631

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

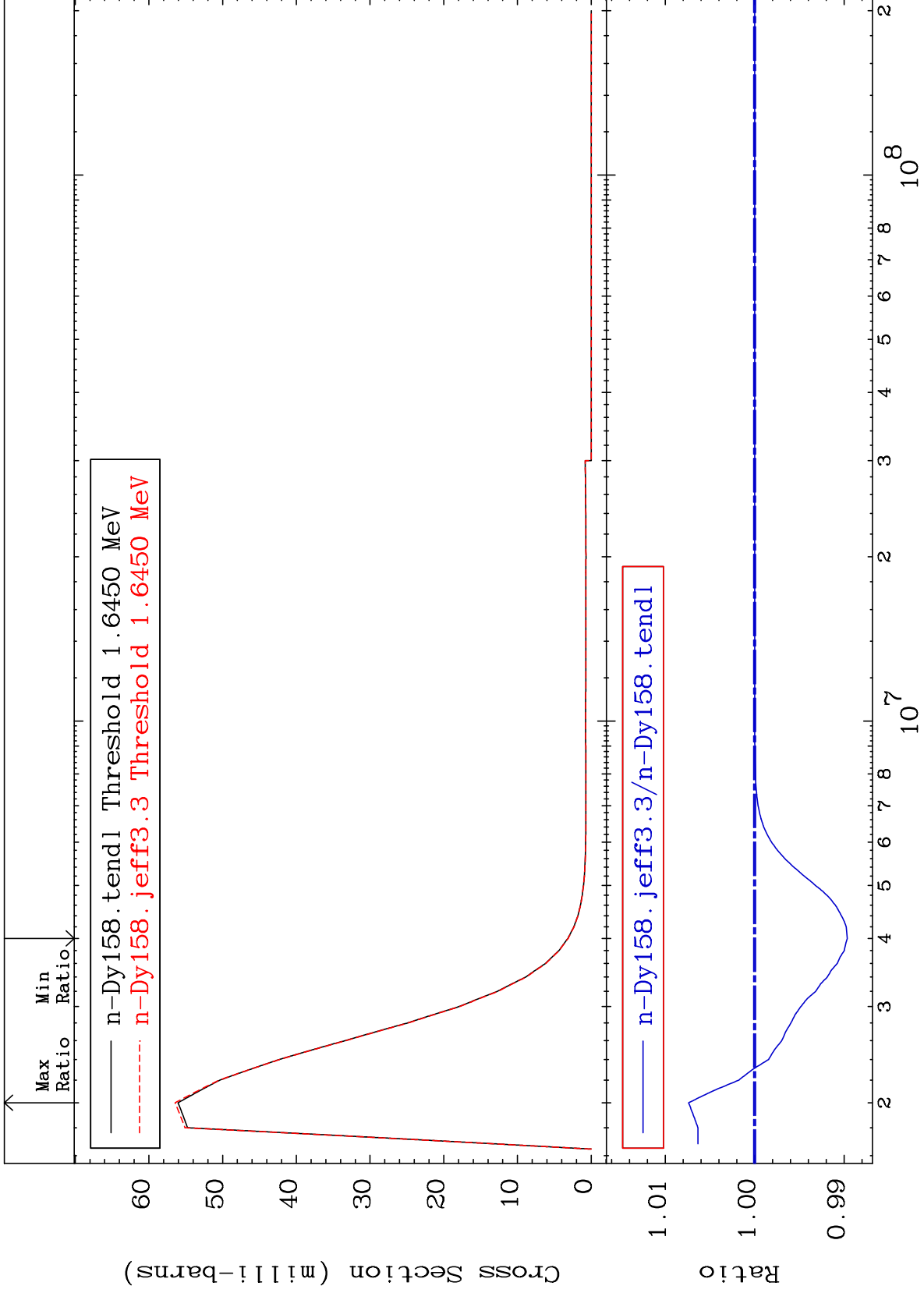
66-Dy-158
-1.046 To 0.745 %



MAT 6631

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

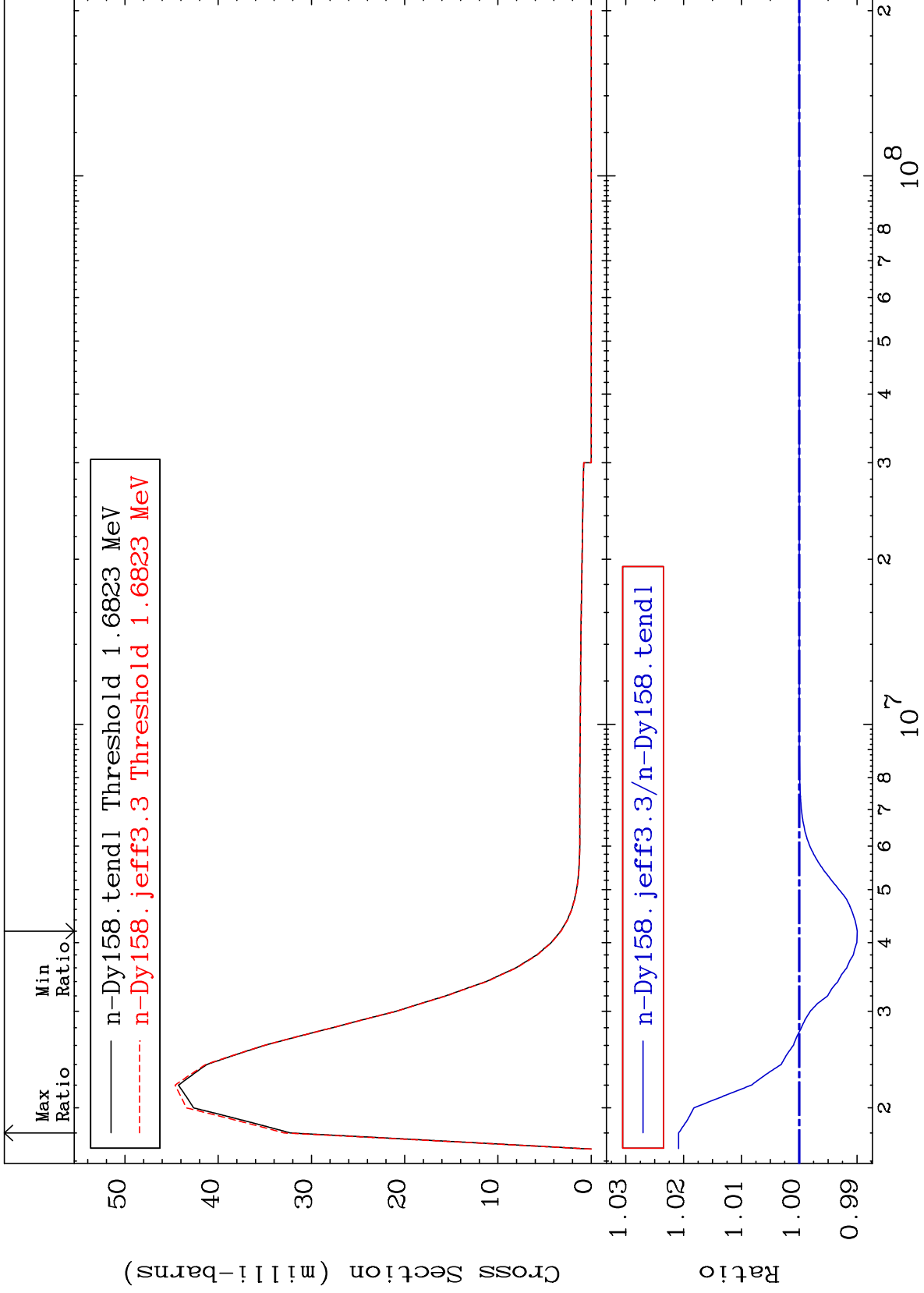
66-Dy-158
-1.035 To 0.738 %

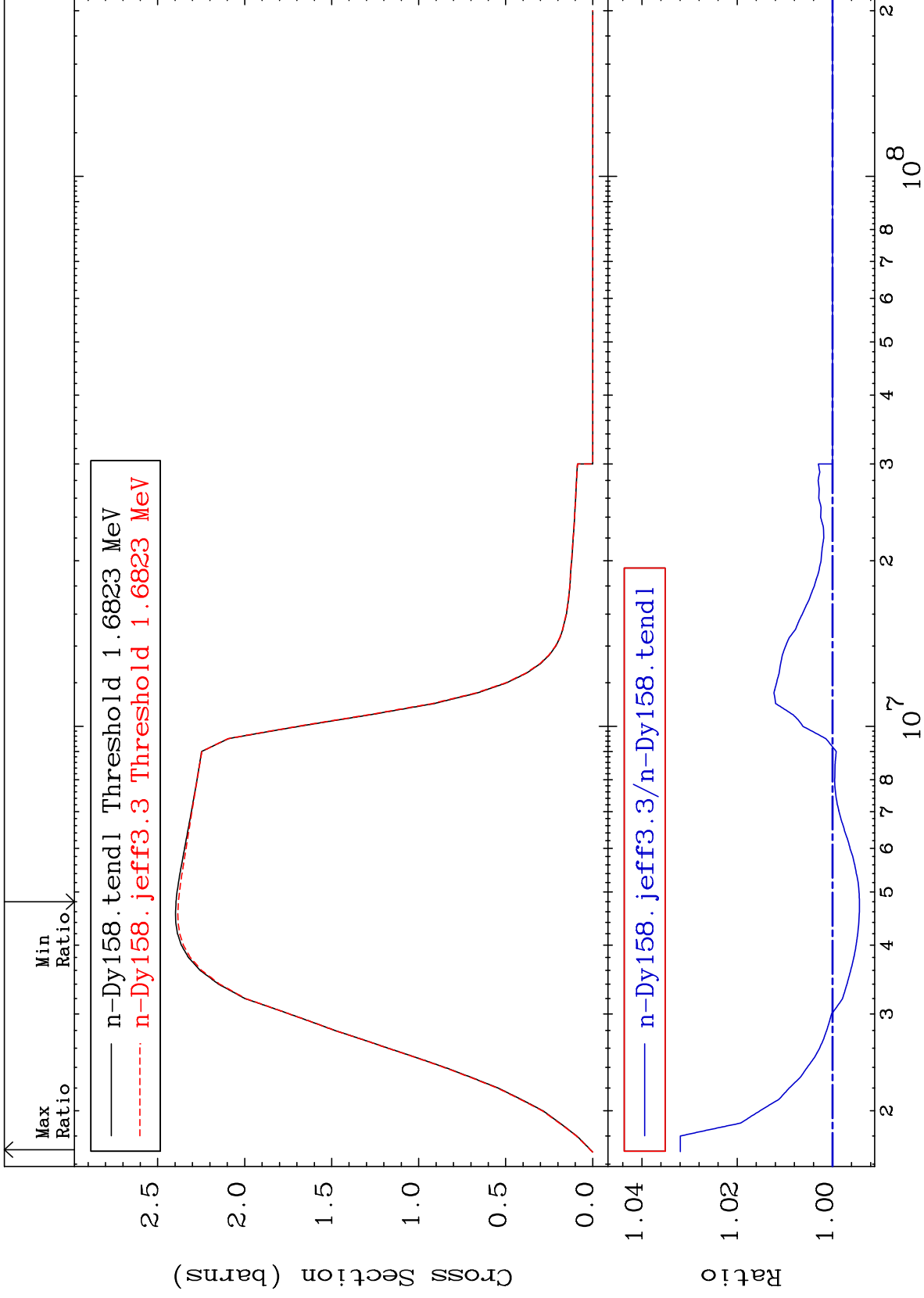


MAT 6631

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

66-Dy-158
-1.004 To 2.086 %

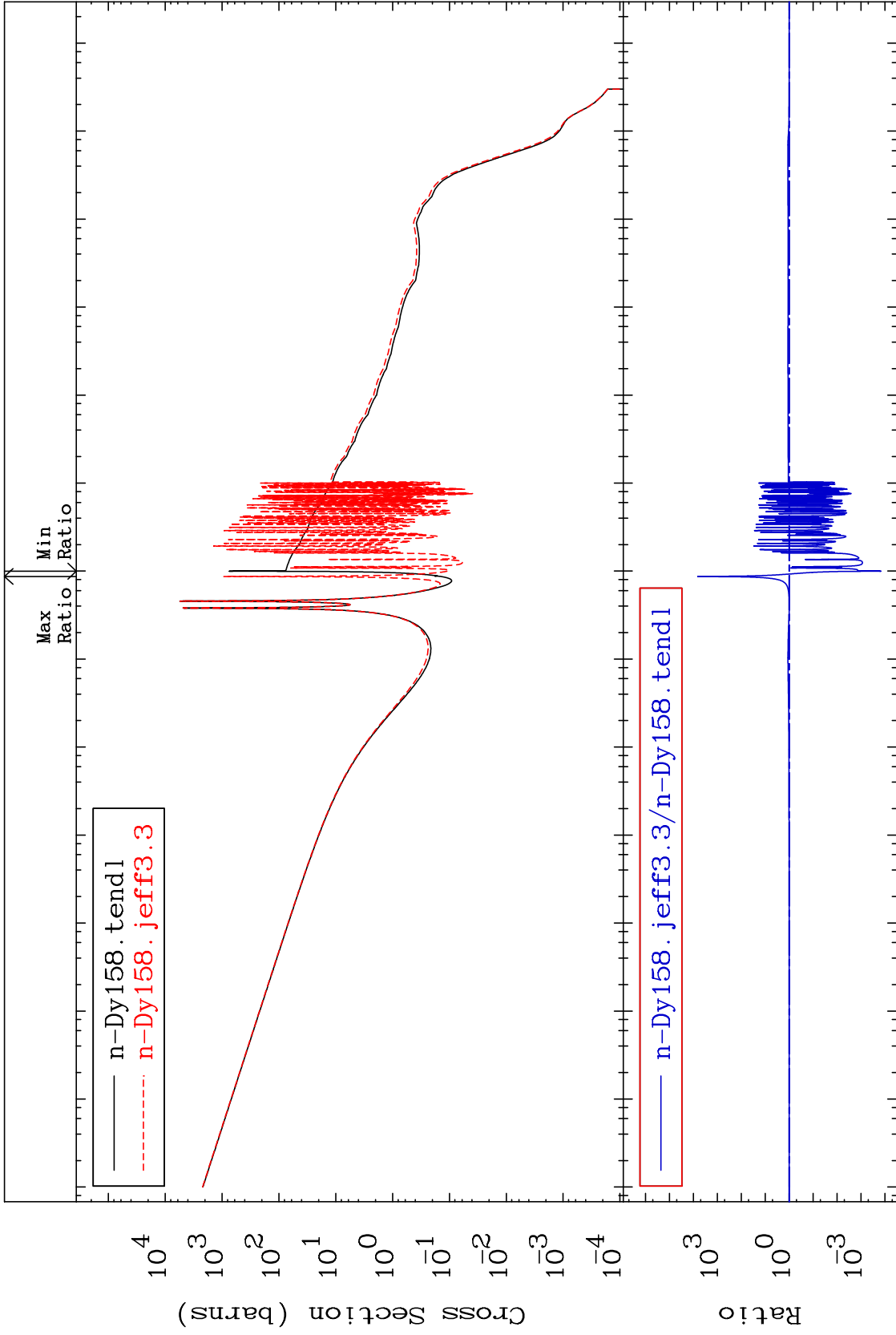




MAT 6631

(n, γ)
Cross Section

66-Dy-158
-99.99 To 9999. %



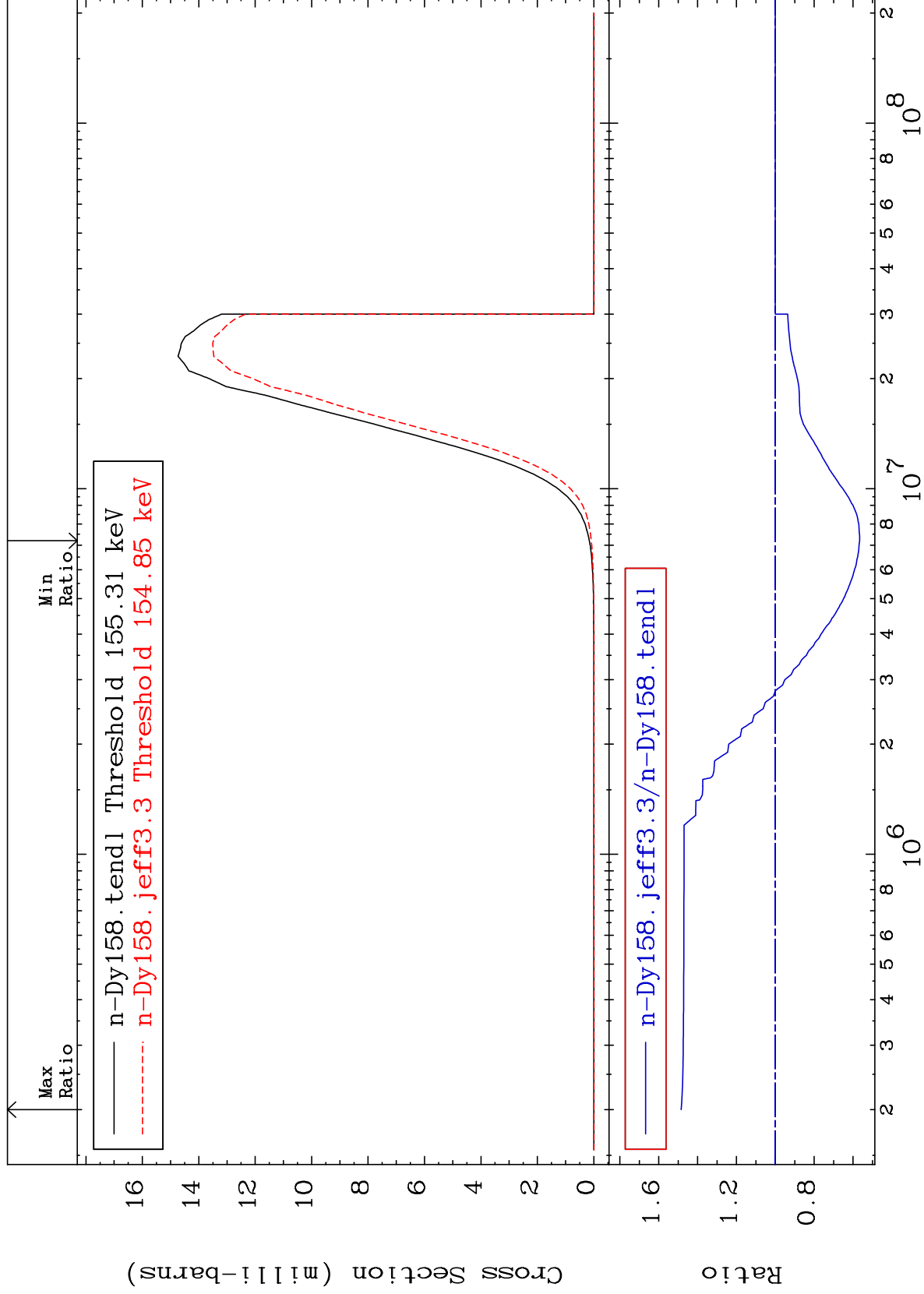
MAT 6631

(n,p)

66-Dy-158

Cross Section

-43.40 To 48.44 %



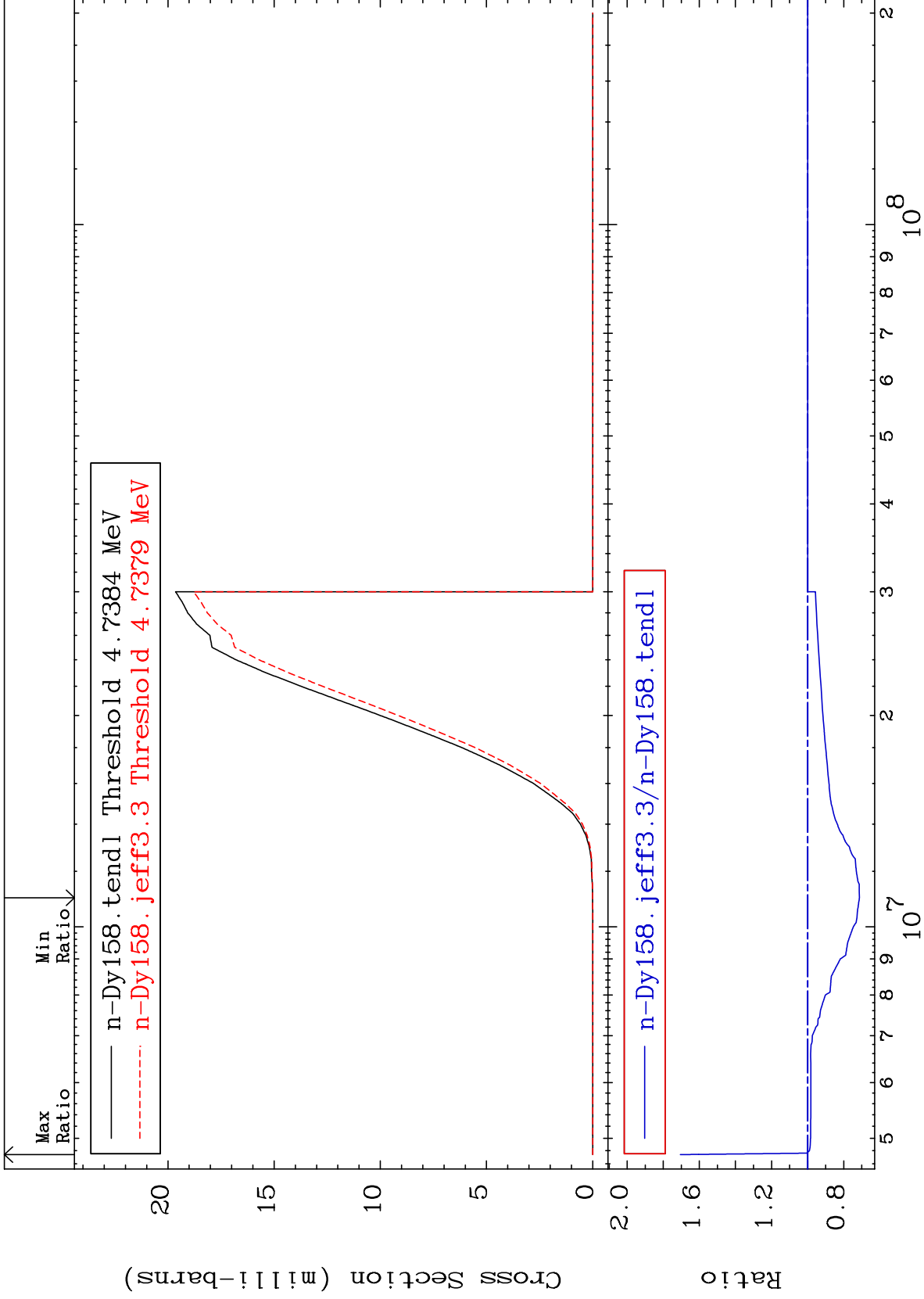
MAT 6631

(n, d)

66-Dy-158

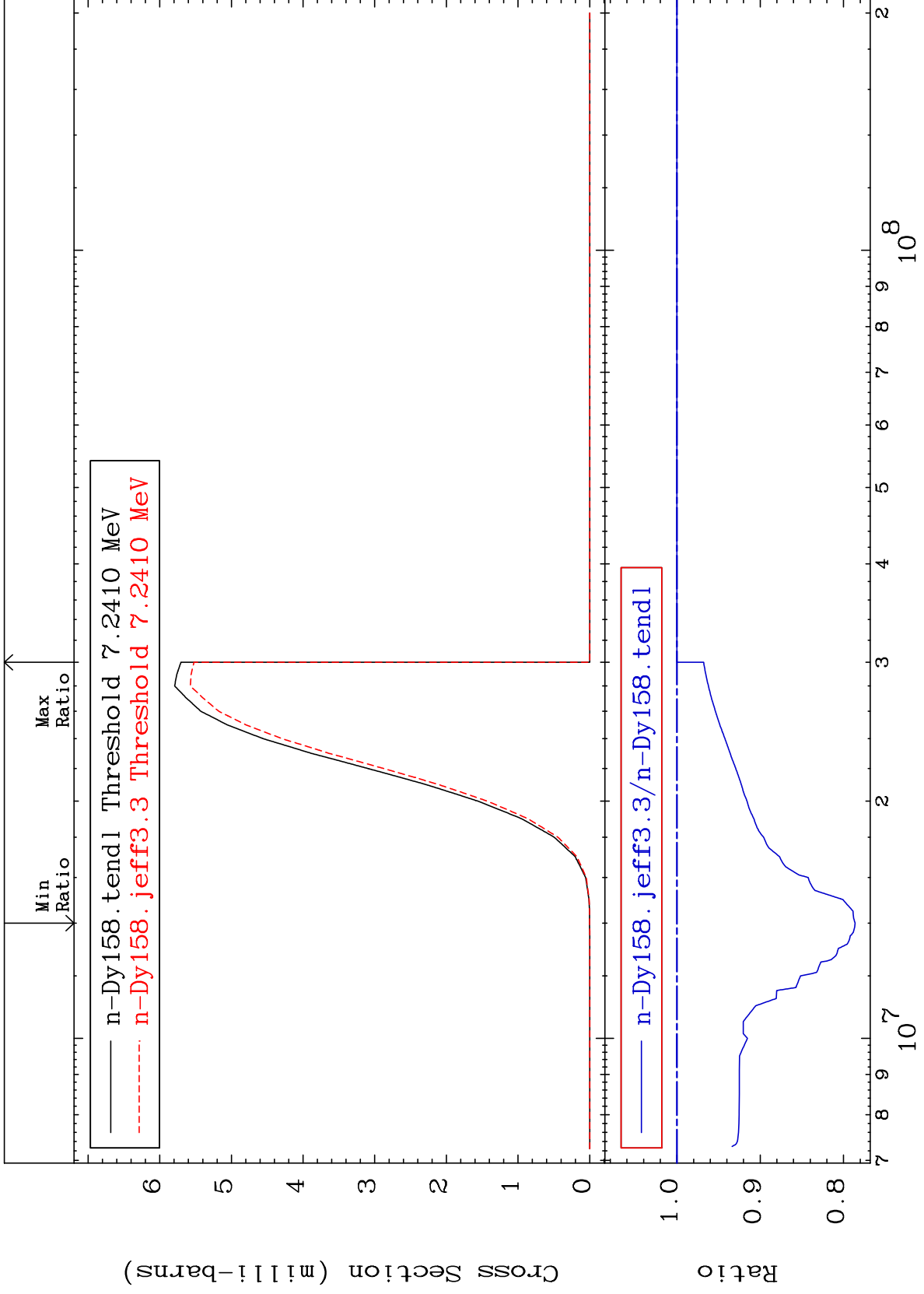
Cross Section

-28.70 To 70.54 %



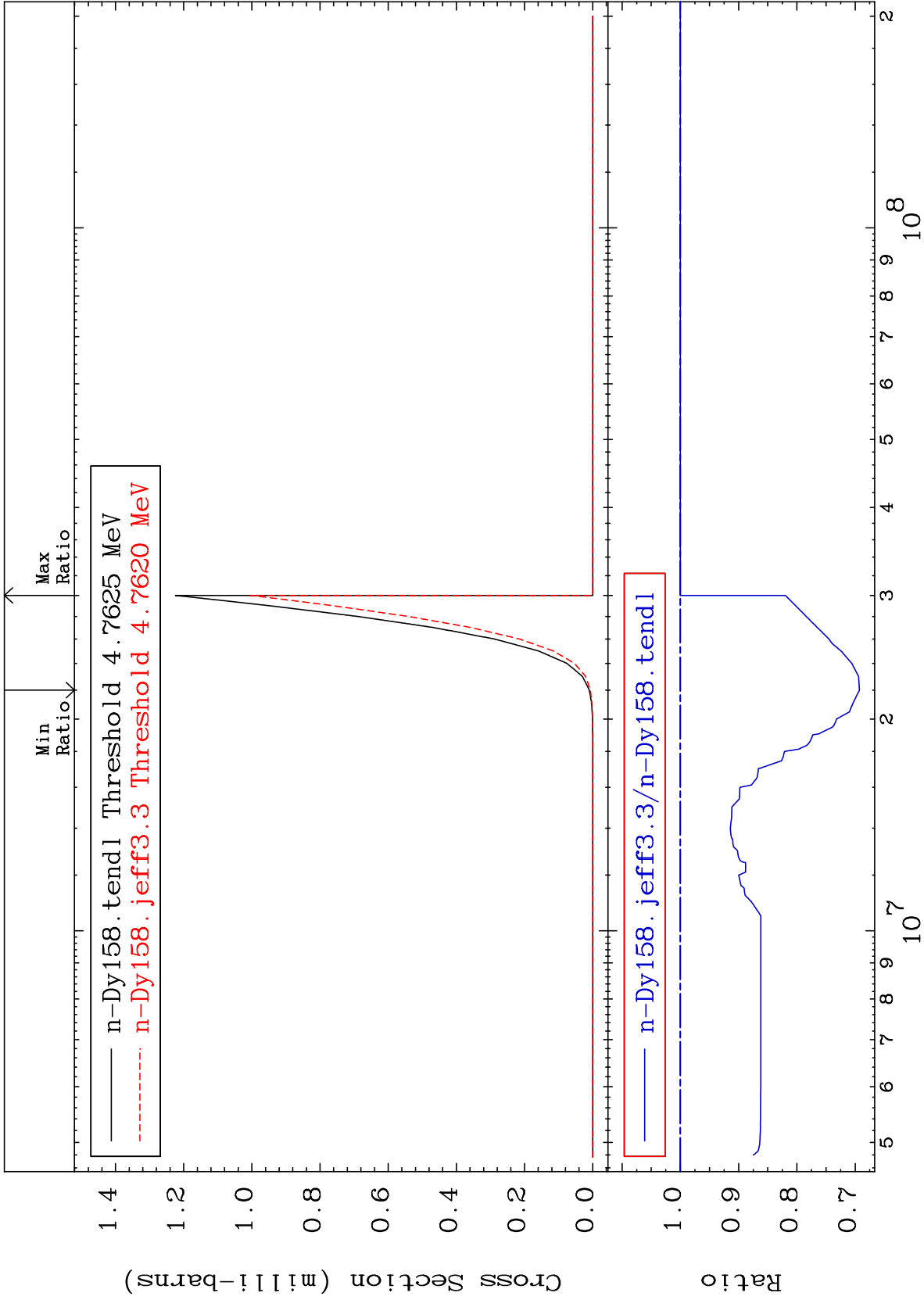
MAT 6631

(n, t)
Cross Section
66-Dy-158
-21.39 To 0.000 %



Cross Section

-30.73 To 0.000 %

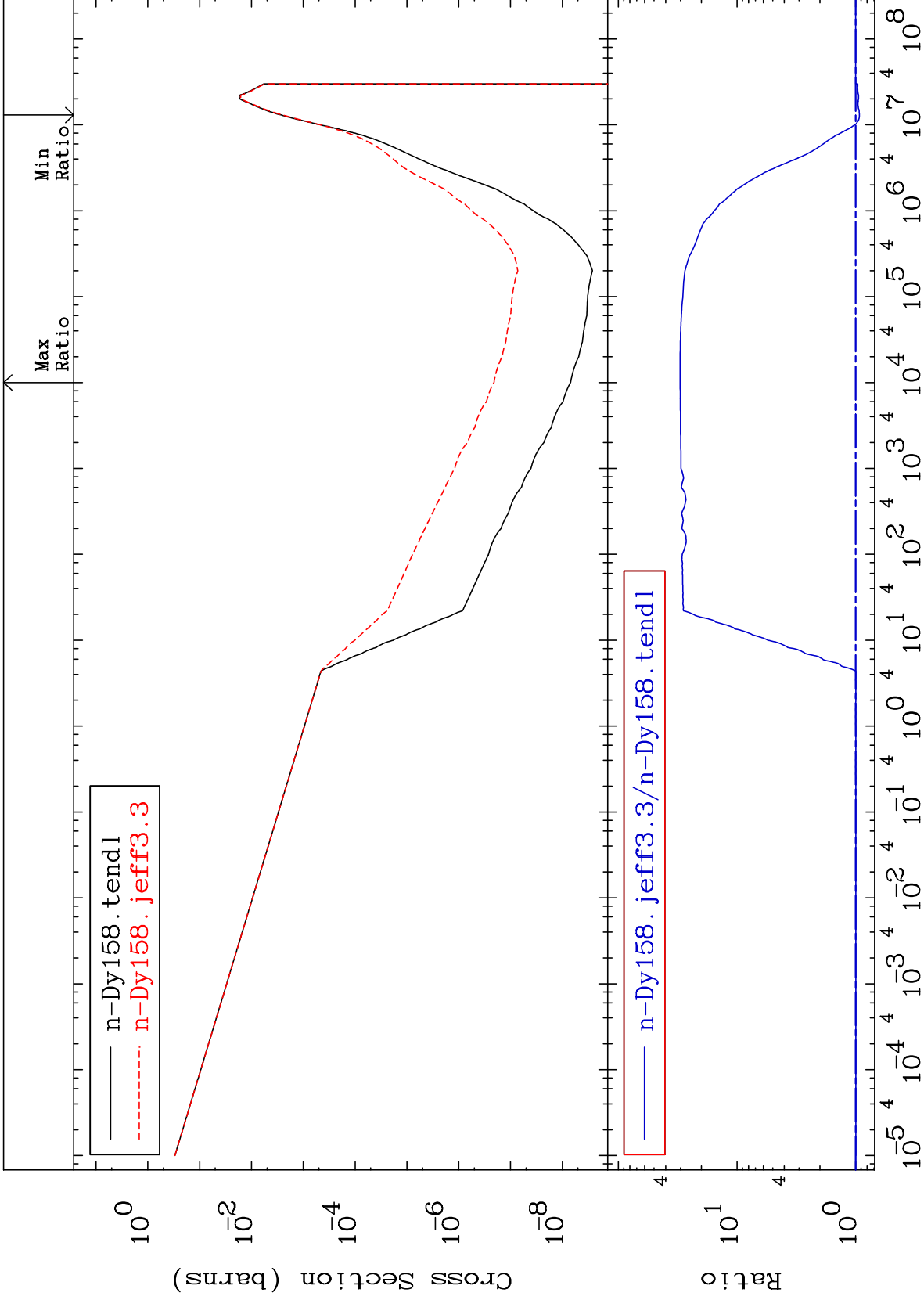


MAT 6631

(n, α)

Cross Section

66-Dy-158
-6.968 To 2916. %

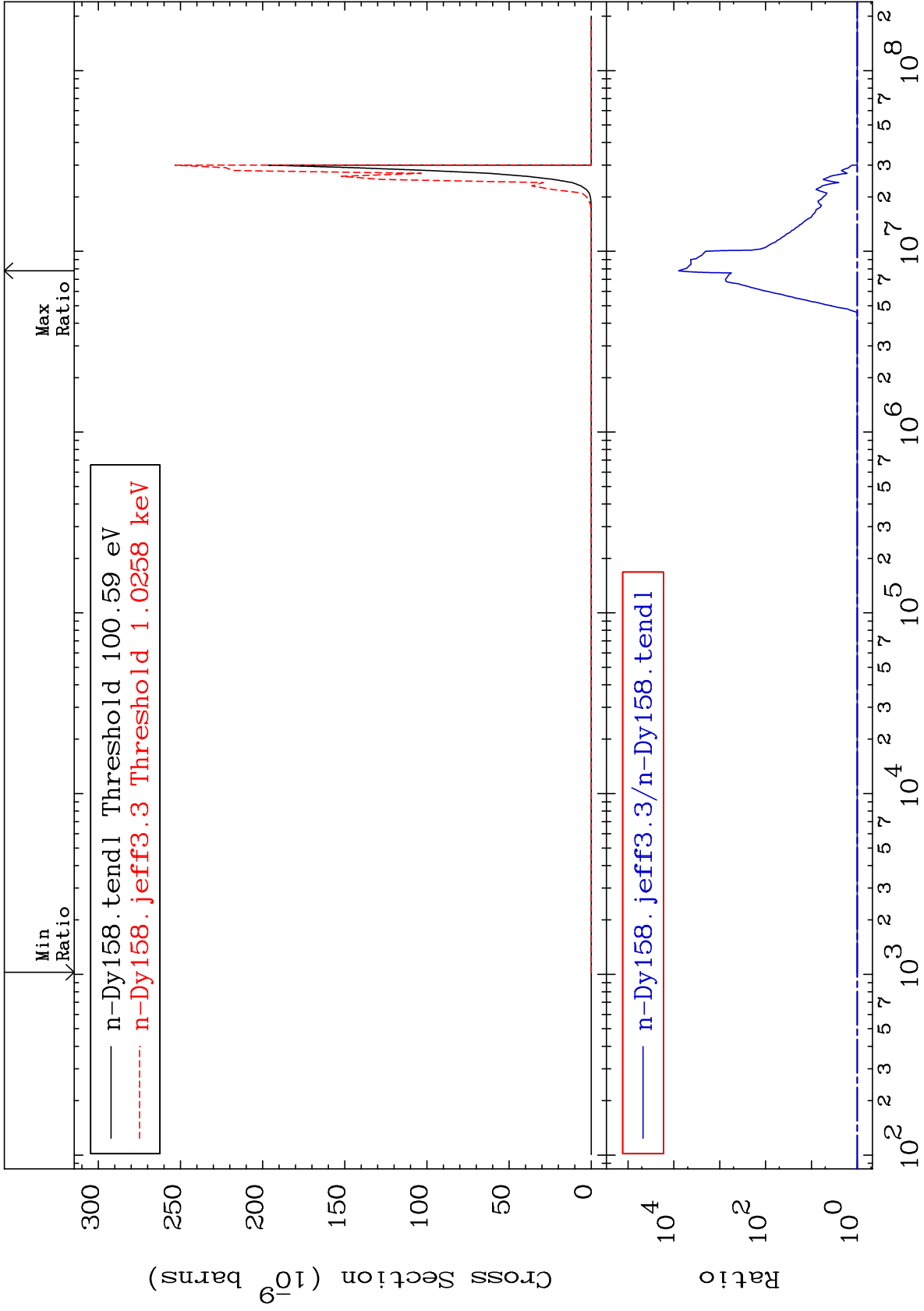


56

66-Dy-158

MAT 6631

(n,2α)
Cross Section
66-Dy-158
To 9999. %



MAT 6631

(n, 2p)

66-Dy-158
-66.65 To 0.000 %

Cross Section

Min Ratio

Max Ratio

— n-Dy158.tendl Threshold 6.1294 MeV
- - - n-Dy158.jeff3.3 Threshold 6.1294 MeV

Cross Section (micro-barns)

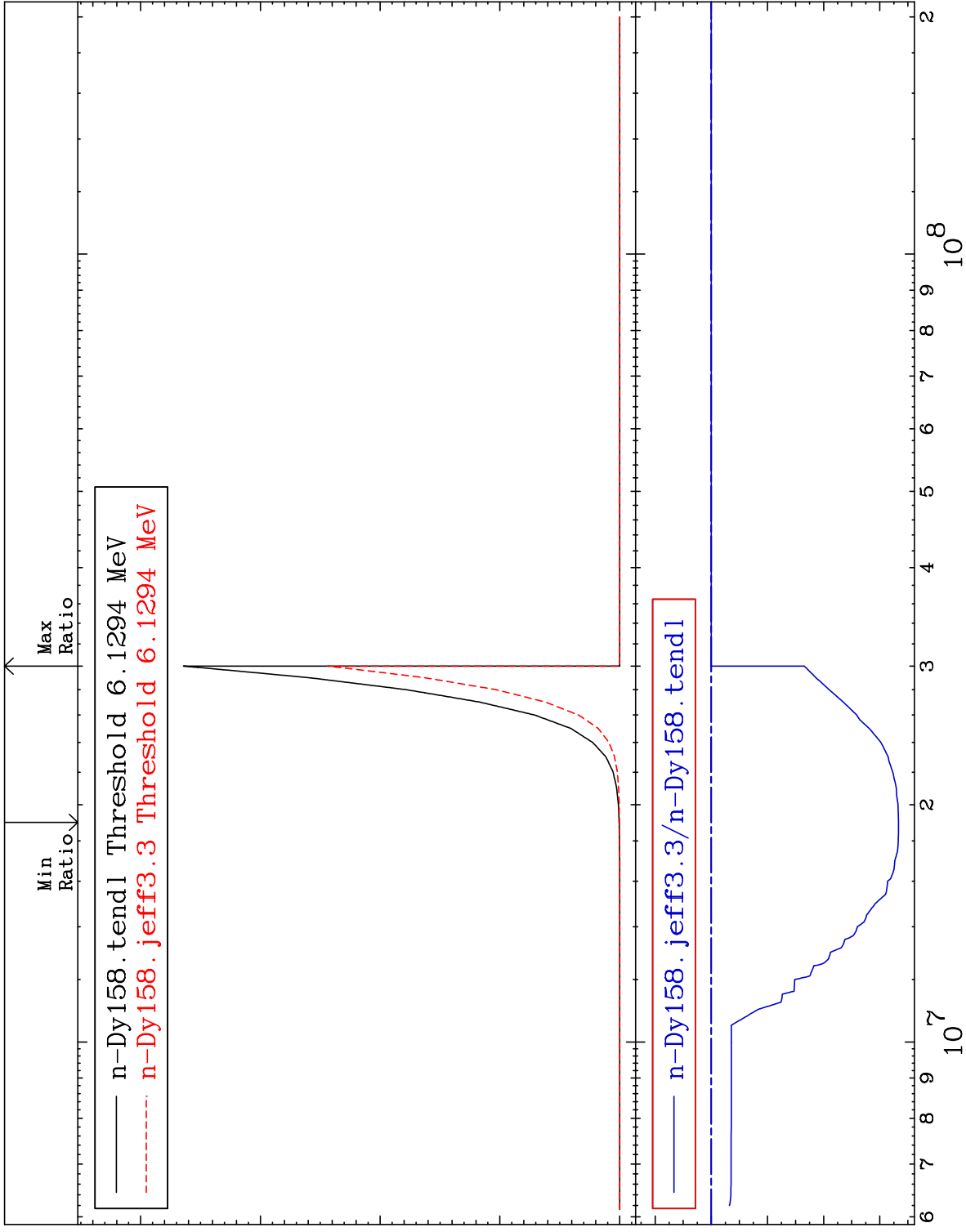
— n-Dy158.jeff3.3/n-Dy158.tendl

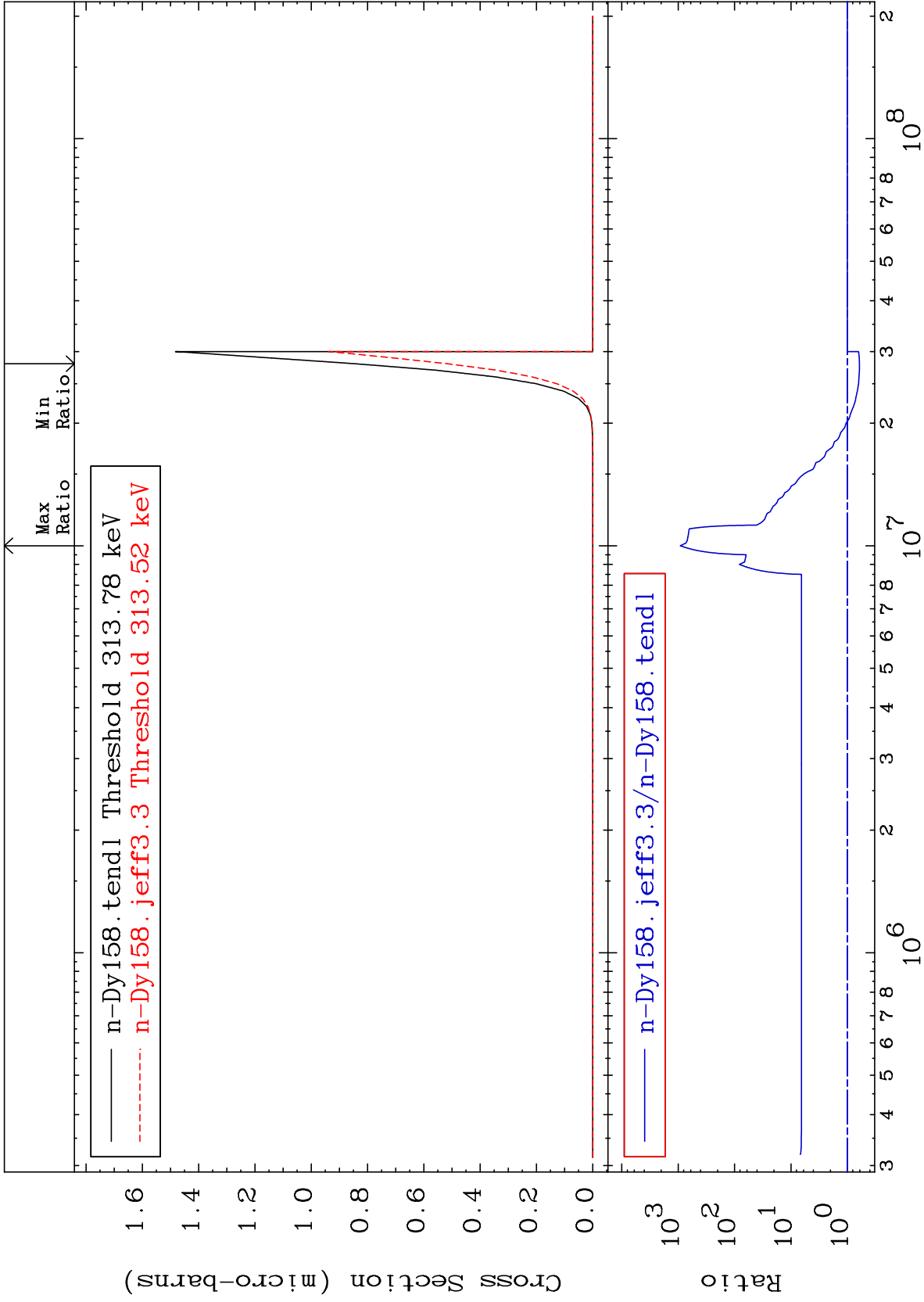
Ratio

58

Incident Energy (eV)

66-Dy-158





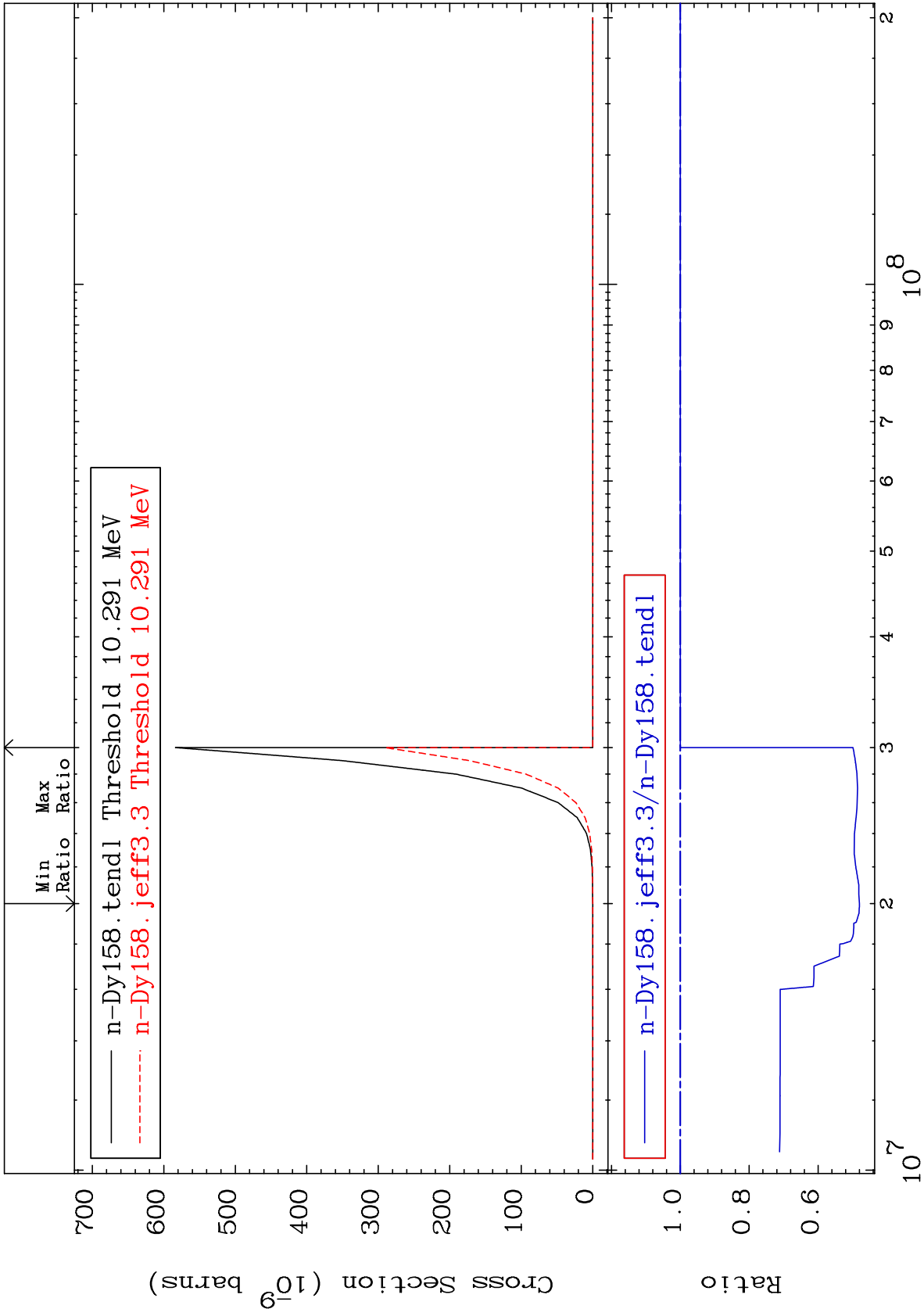
MAT 6631

(n,p) d

66-Dy-158

Cross Section

-52.02 To 0.000 %



66-Dy-158

60

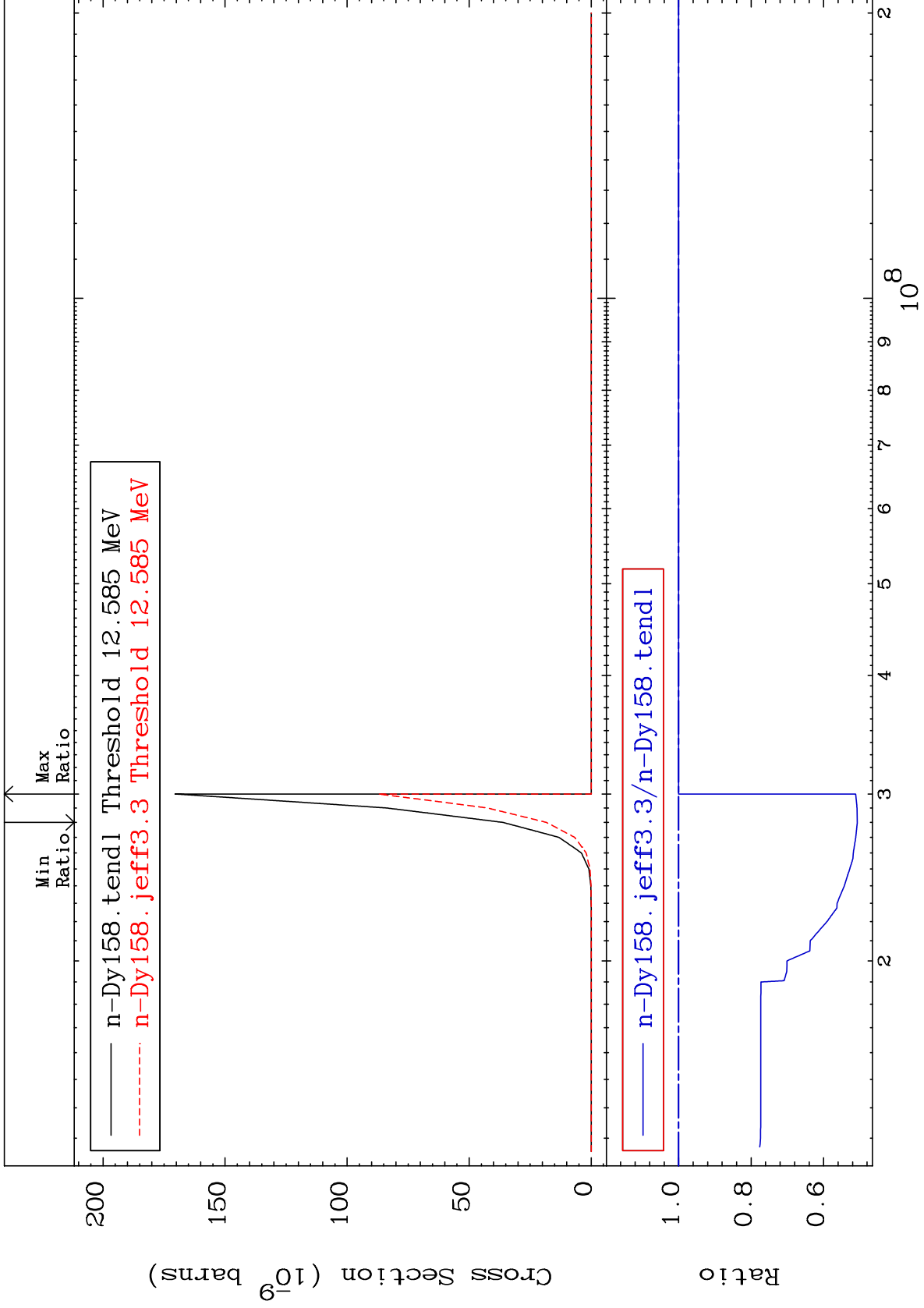
MAT 6631

(n,p) t

66-Dy-158

Cross Section

-49.28 To 0.000 %



61

Incident Energy (eV)

66-Dy-158

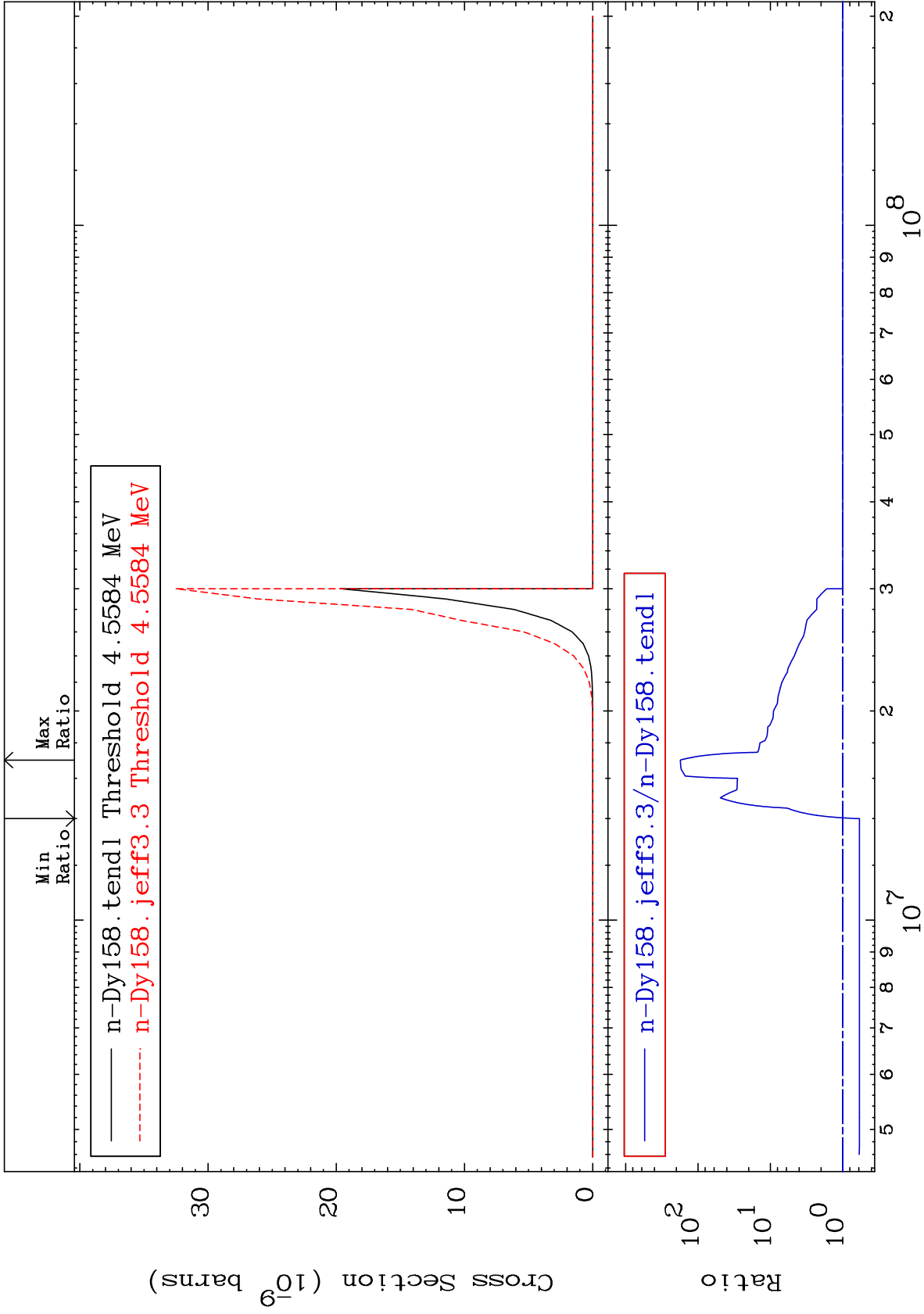
MAT 6631

(n, d) α

66-Dy-158

Cross Section

-41.07 To 9999. %



62

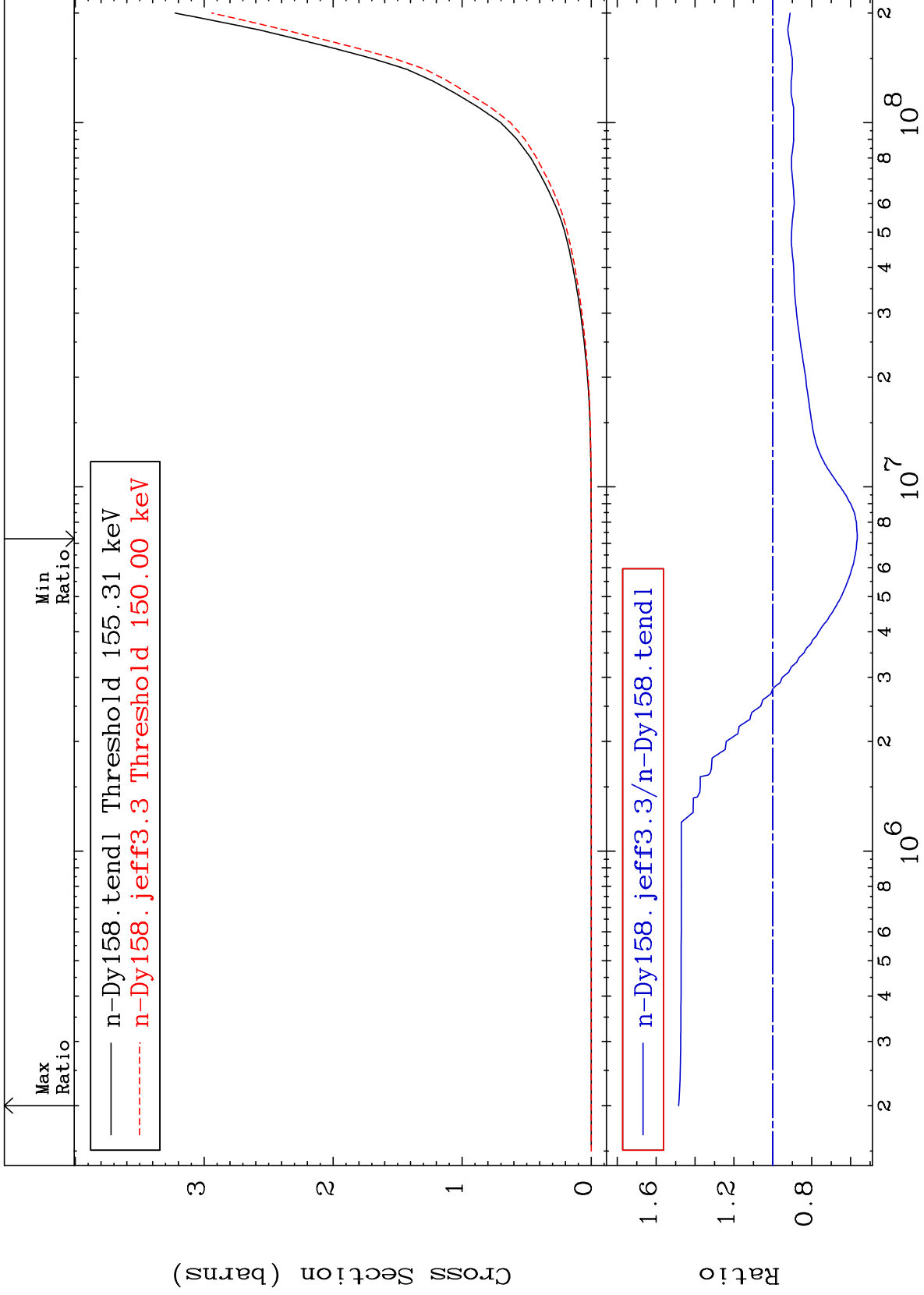
Incident Energy (eV)

66-Dy-158

MAT 6631

Hydrogen Production
Cross Section

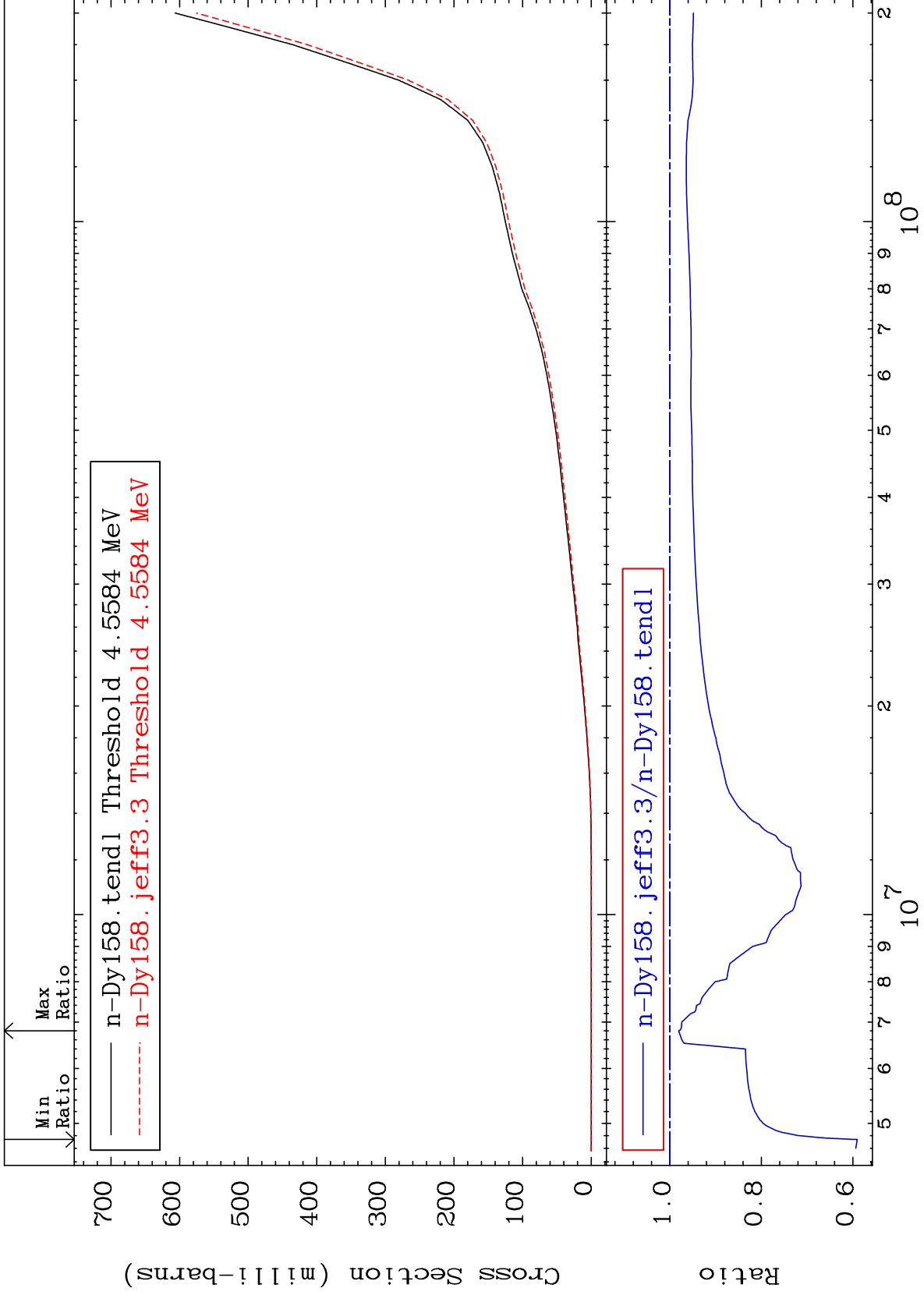
66-Dy-158
-43.40 To 48.44 %



MAT 6631

Deuterium Production
Cross Section

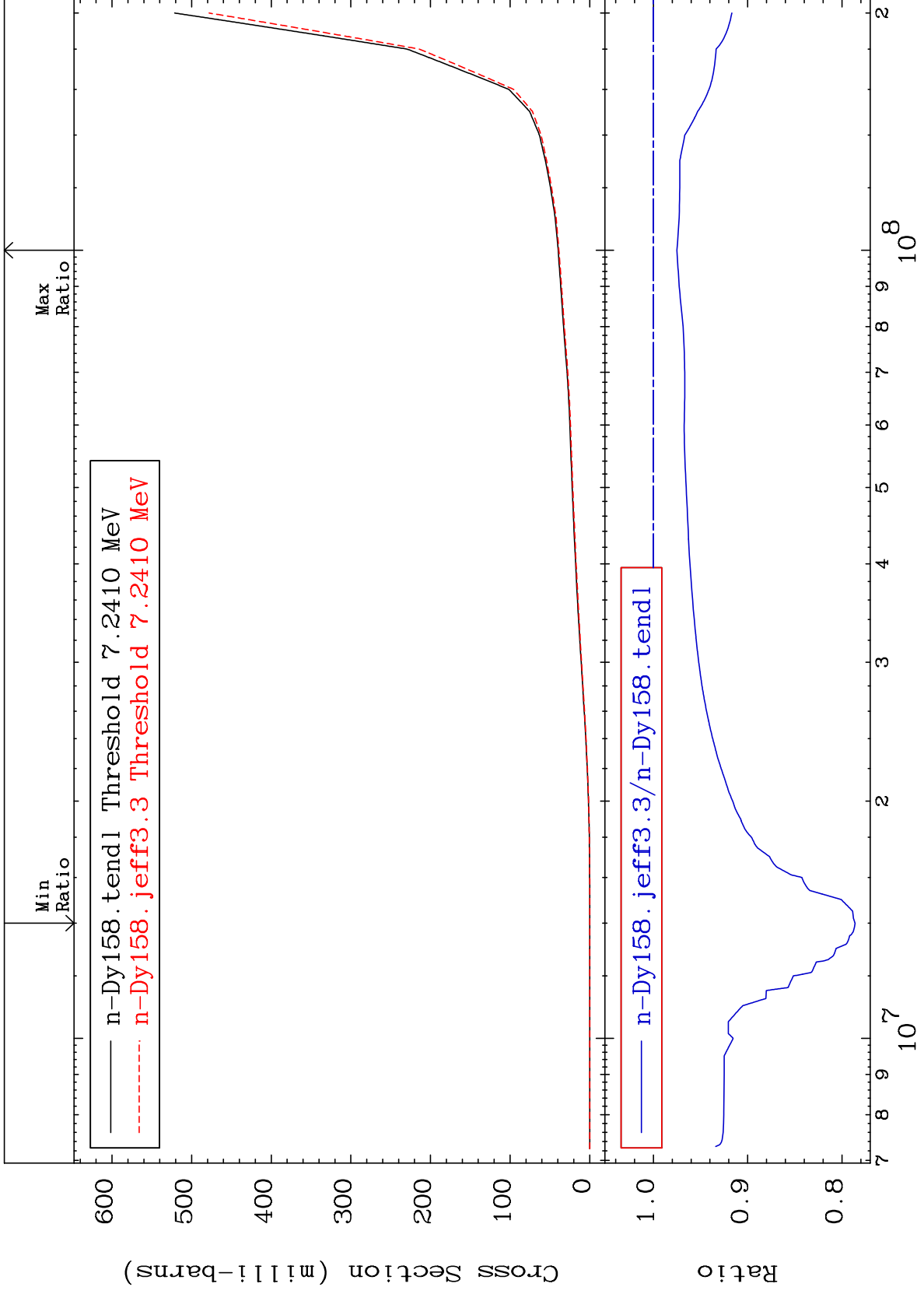
66-Dy-158
-40.97 To -1.917%



MAT 6631

Tritium Production
Cross Section

66-Dy-158
-21.39 To -2.498%



65

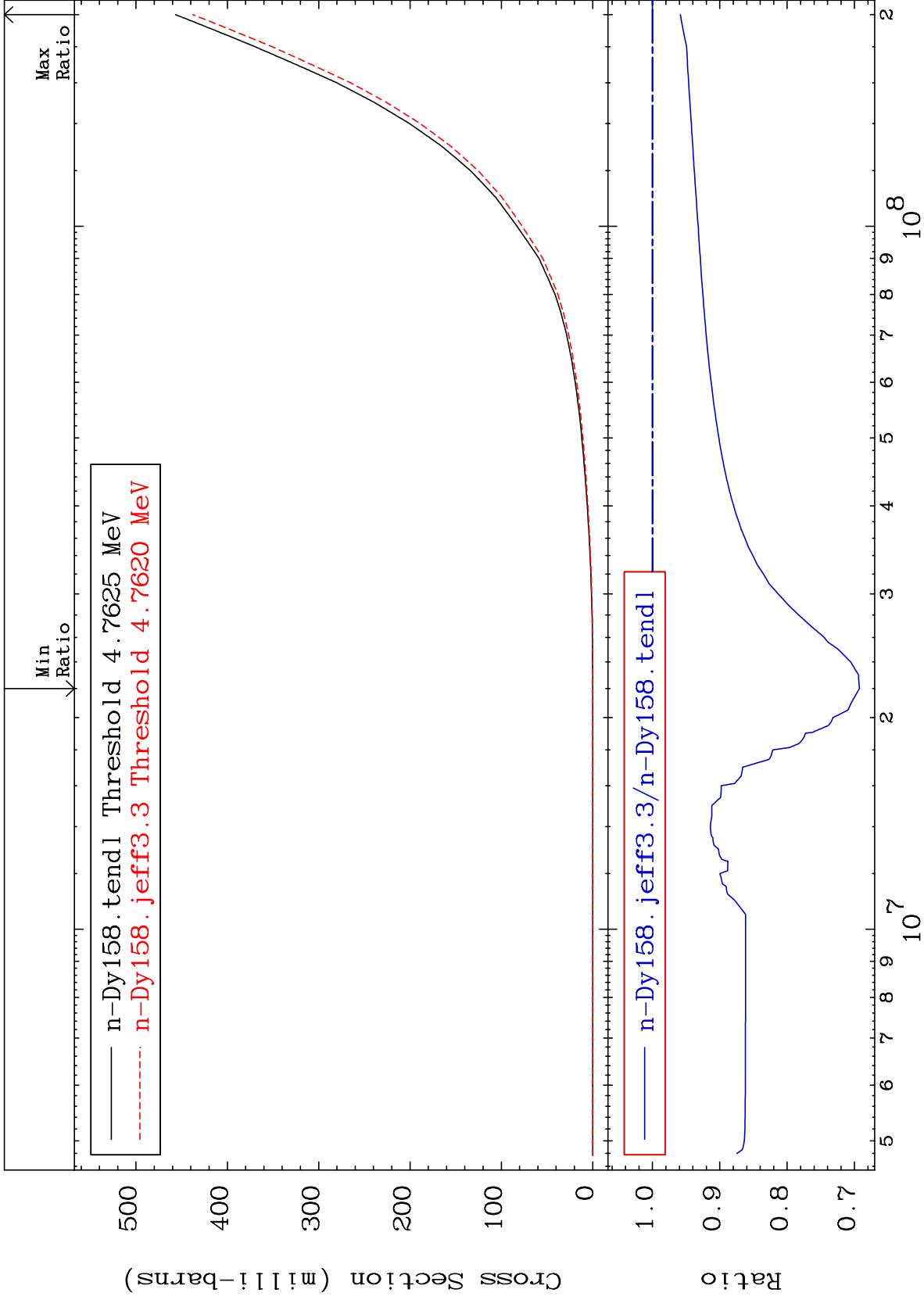
Incident Energy (eV)

66-Dy-158

MAT 6631

He-3 Production
Cross Section

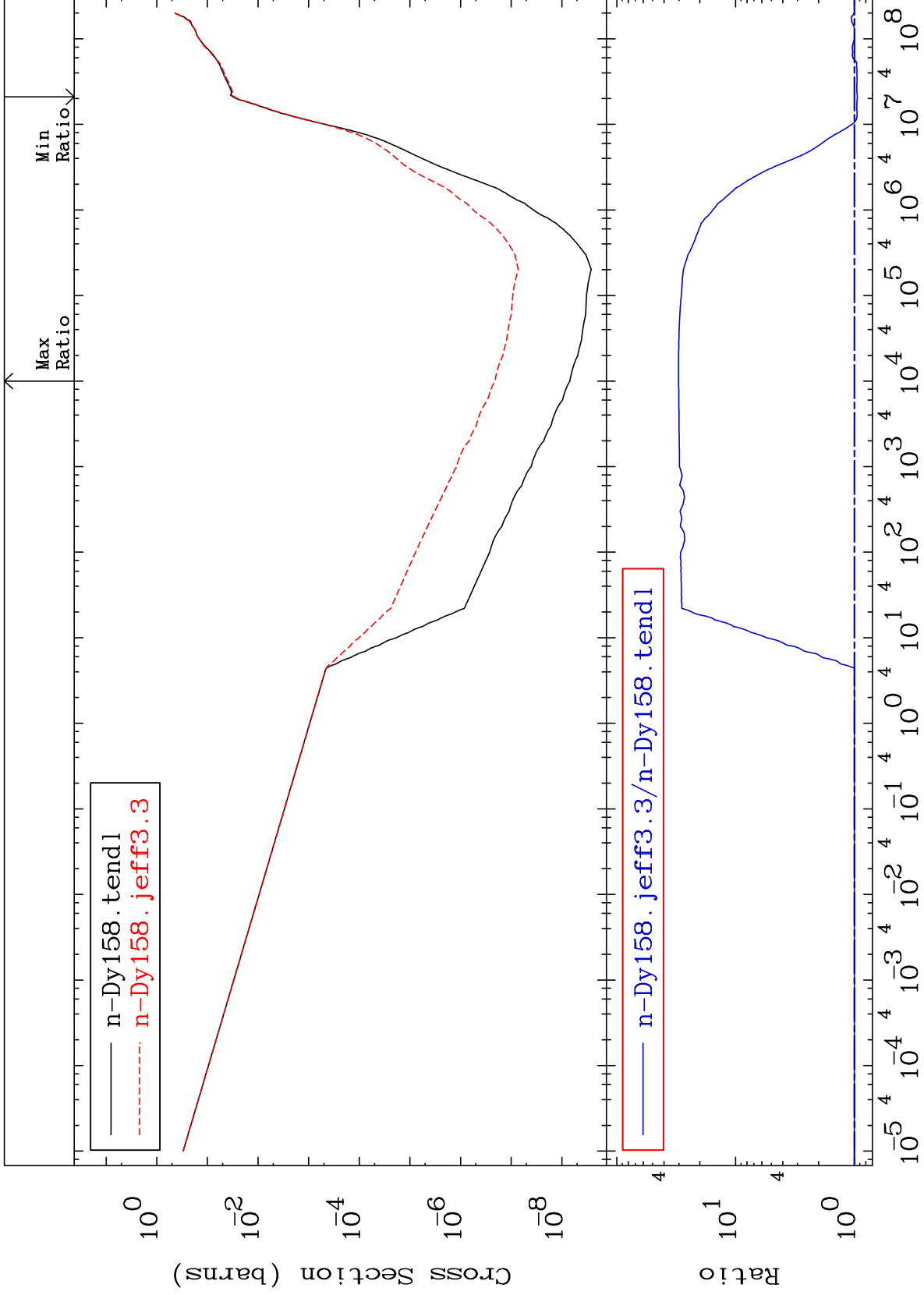
66-Dy-158
-30.73 To -4.141%



MAT 6631

He-4 Production
Cross Section

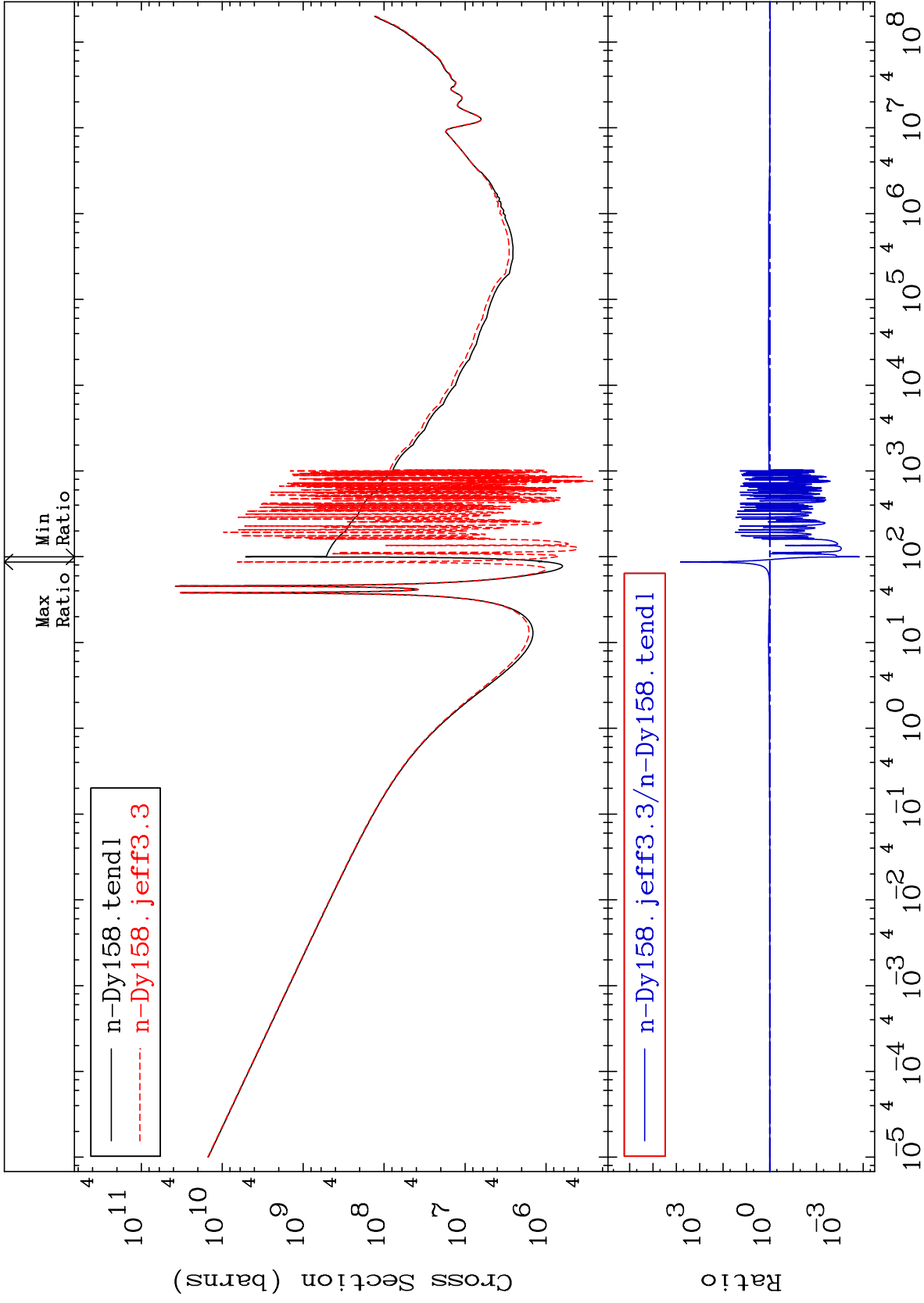
66-Dy-158
-5.641 To 2916. %



67

Incident Energy (eV)

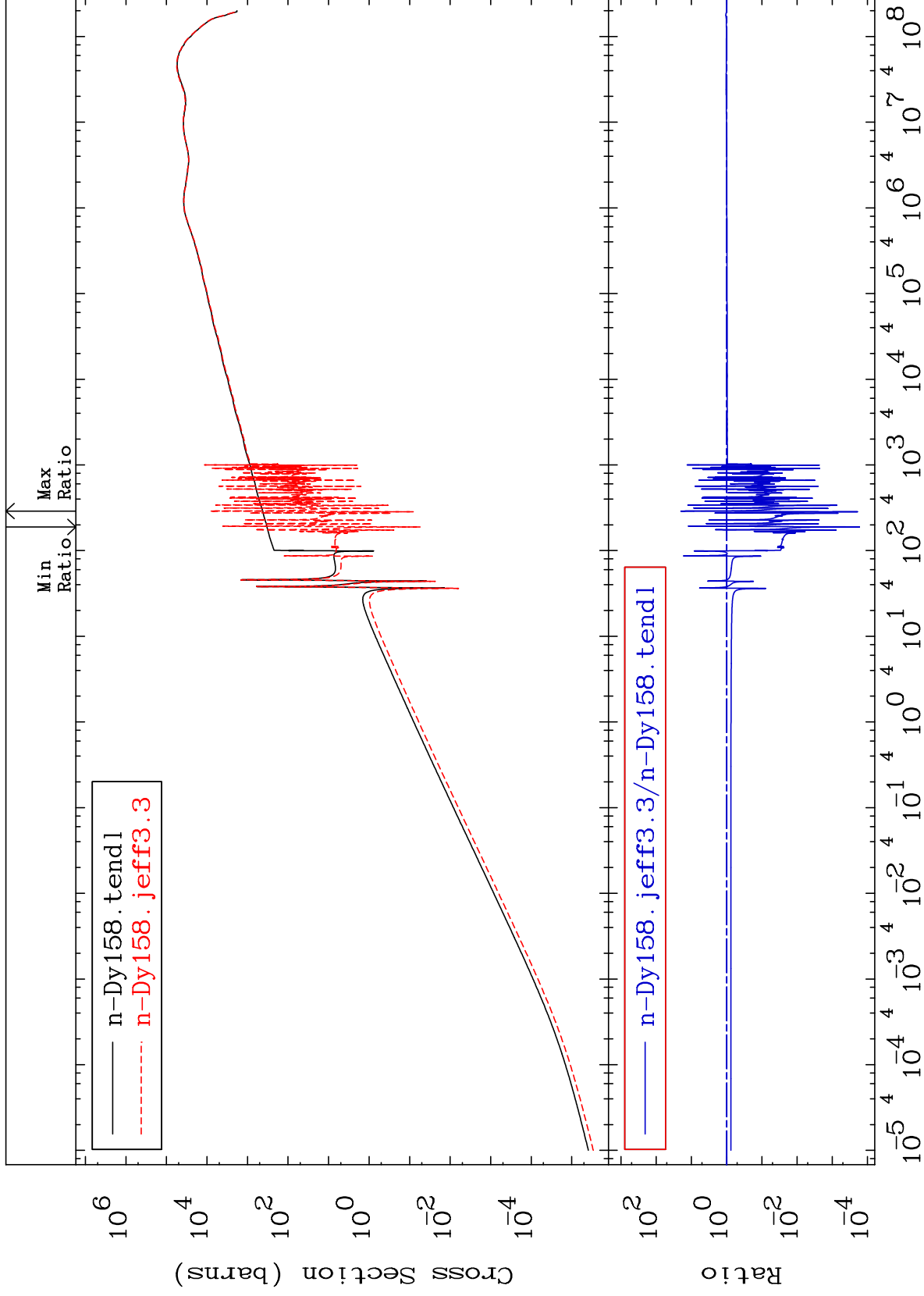
66-Dy-158



MAT 6631

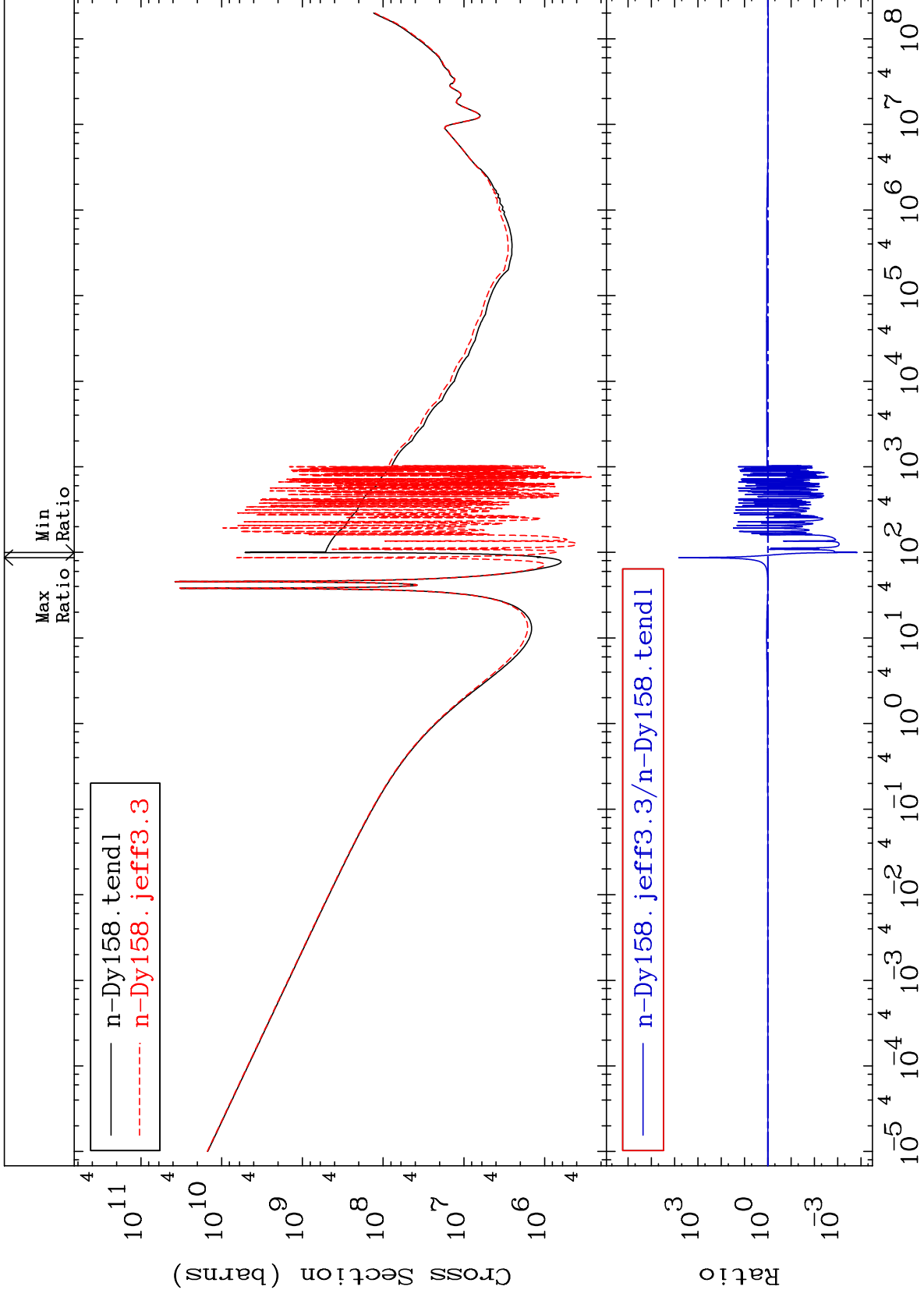
Kerma elastic
Cross Section

66-Dy-158
-99.98 To 1910. %



— n-Dy158.tendl
- - - n-Dy158.jeff3.3

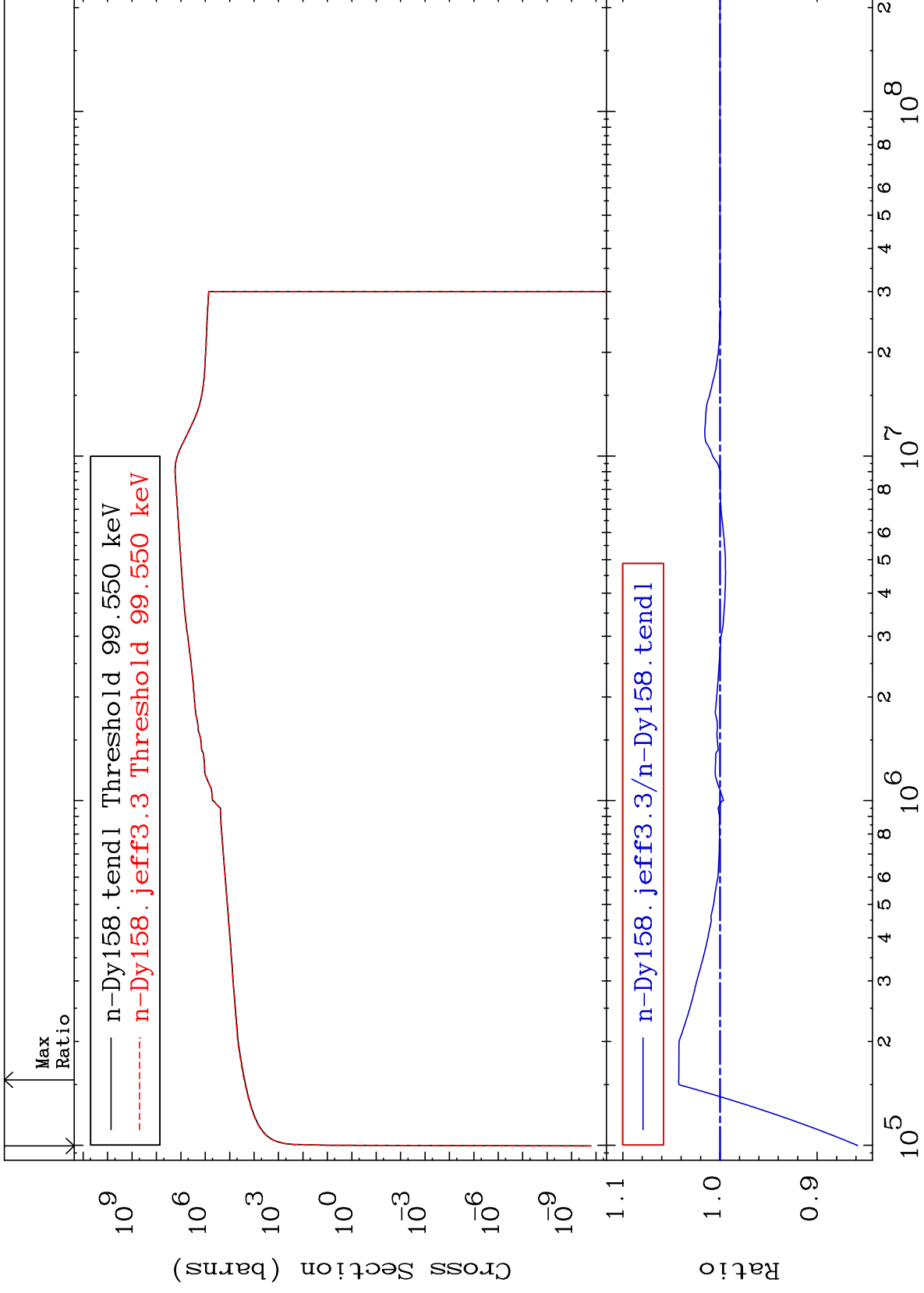
— n-Dy158.jeff3.3/n-Dy158.tendl



MAT 6631

Kerma inelastic (mt51-91)
Cross Section

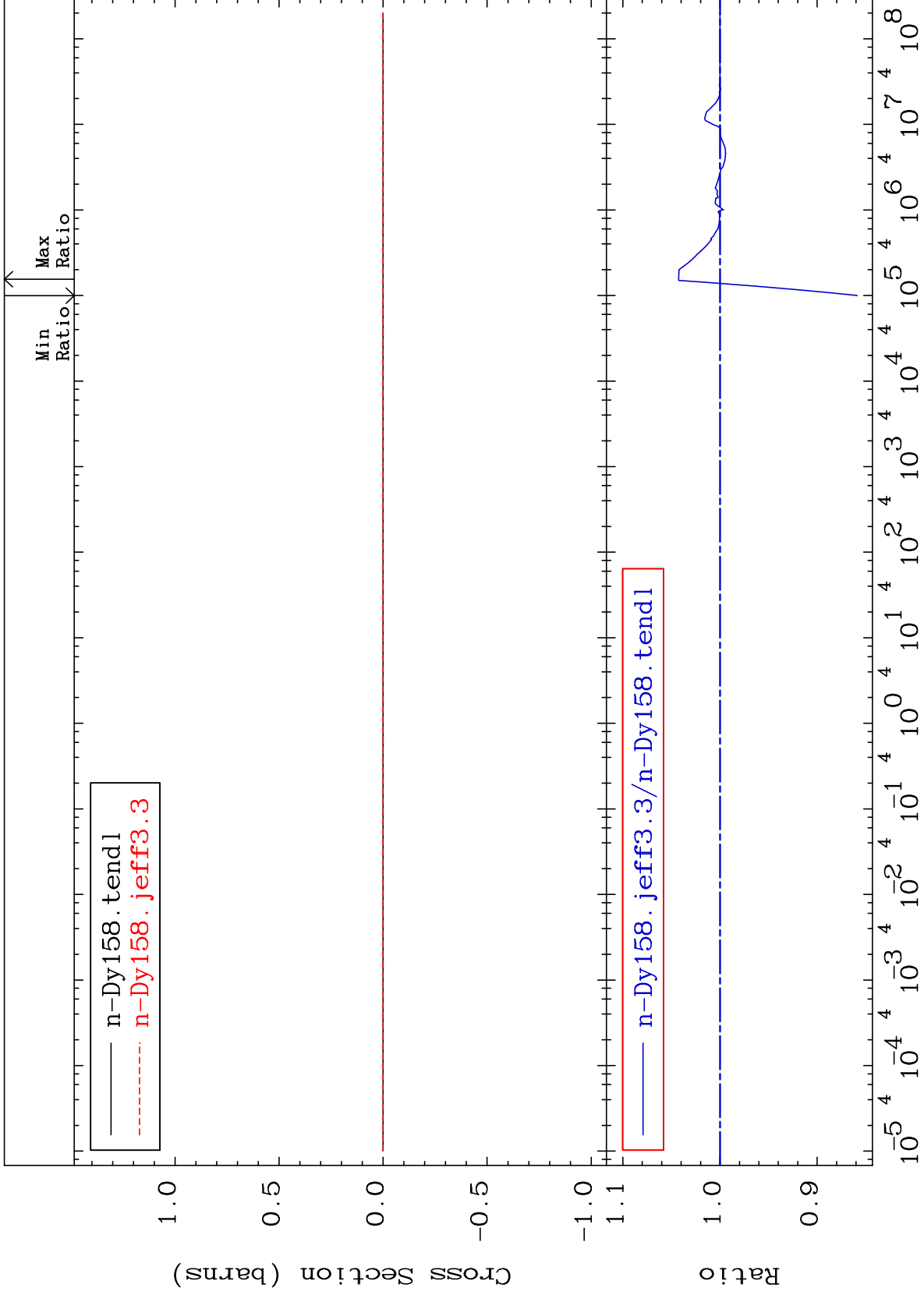
66-Dy-158
-14.13 To 4.258 %



71

Incident Energy (eV)

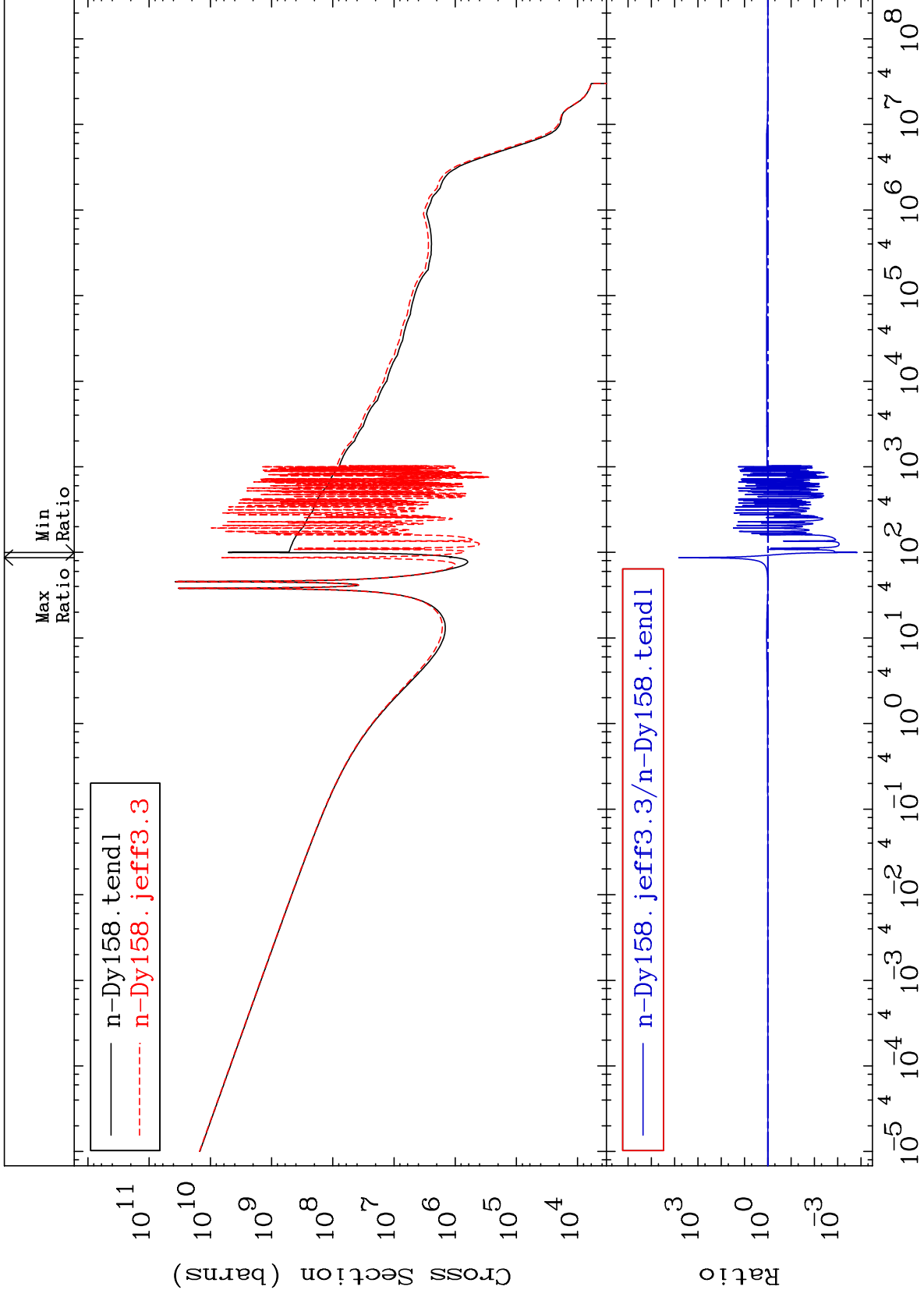
66-Dy-158



MAT 6631

Kerma capture (mt102)
Cross Section

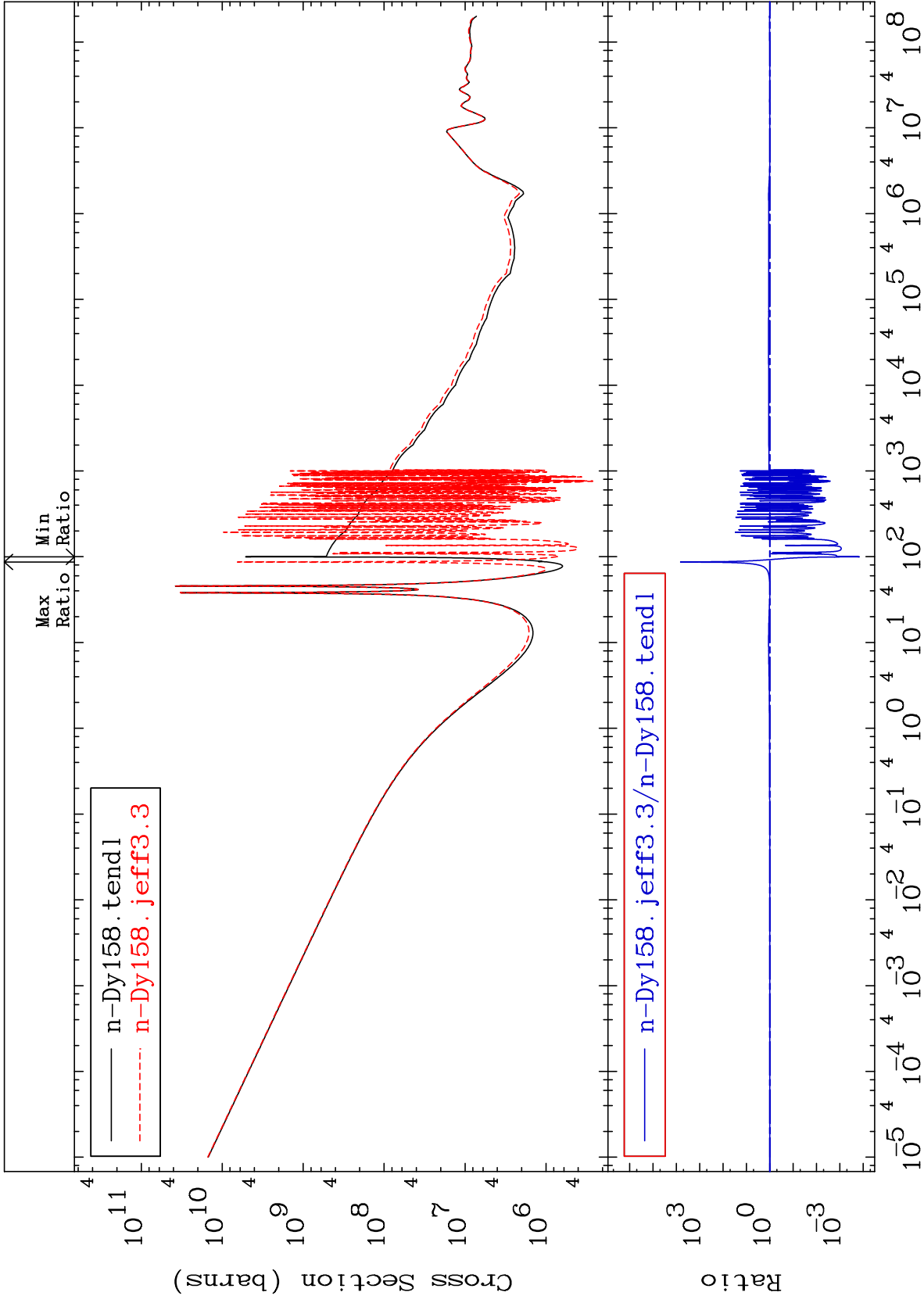
66-Dy-158
-99.99 To 9999. %

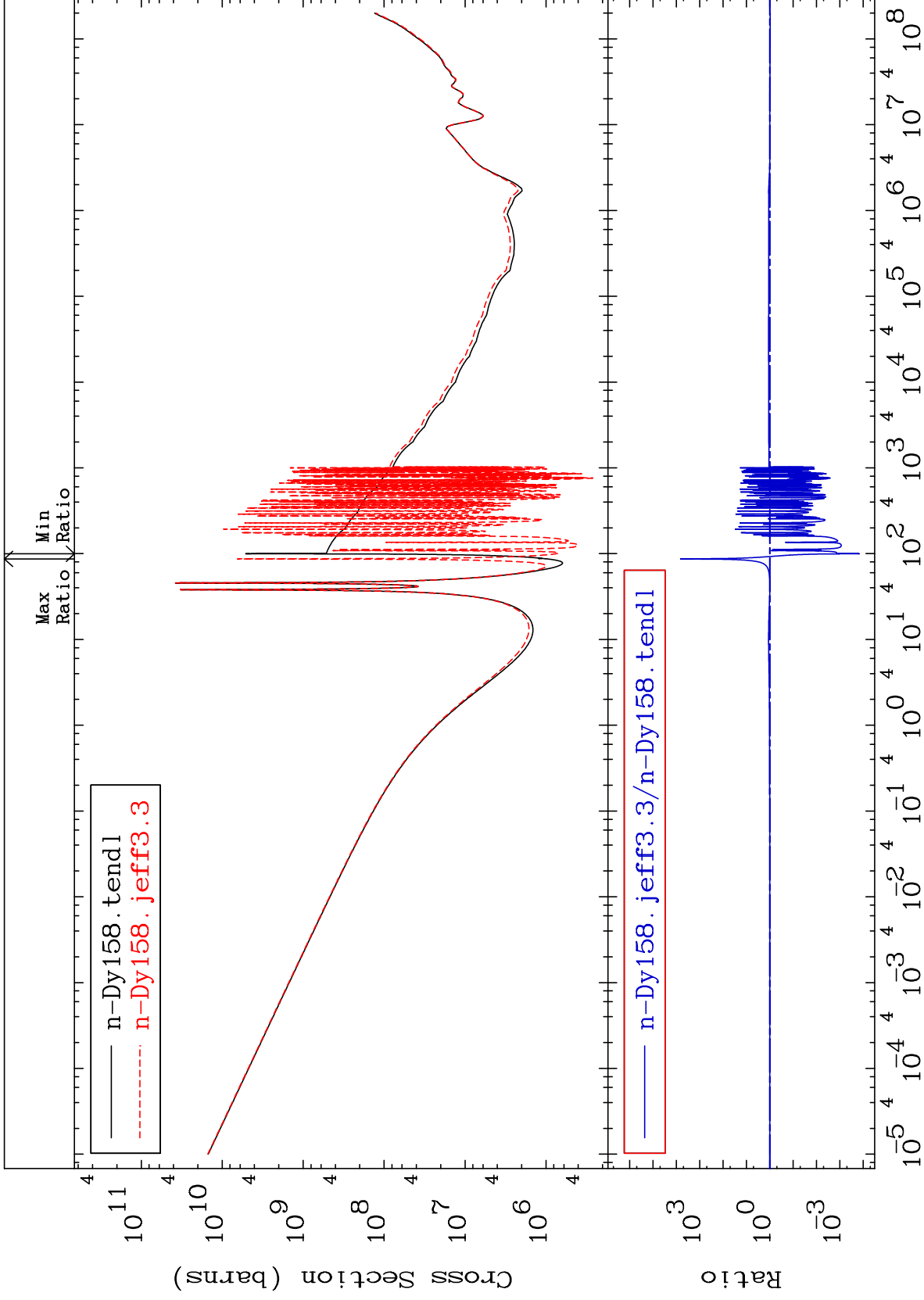


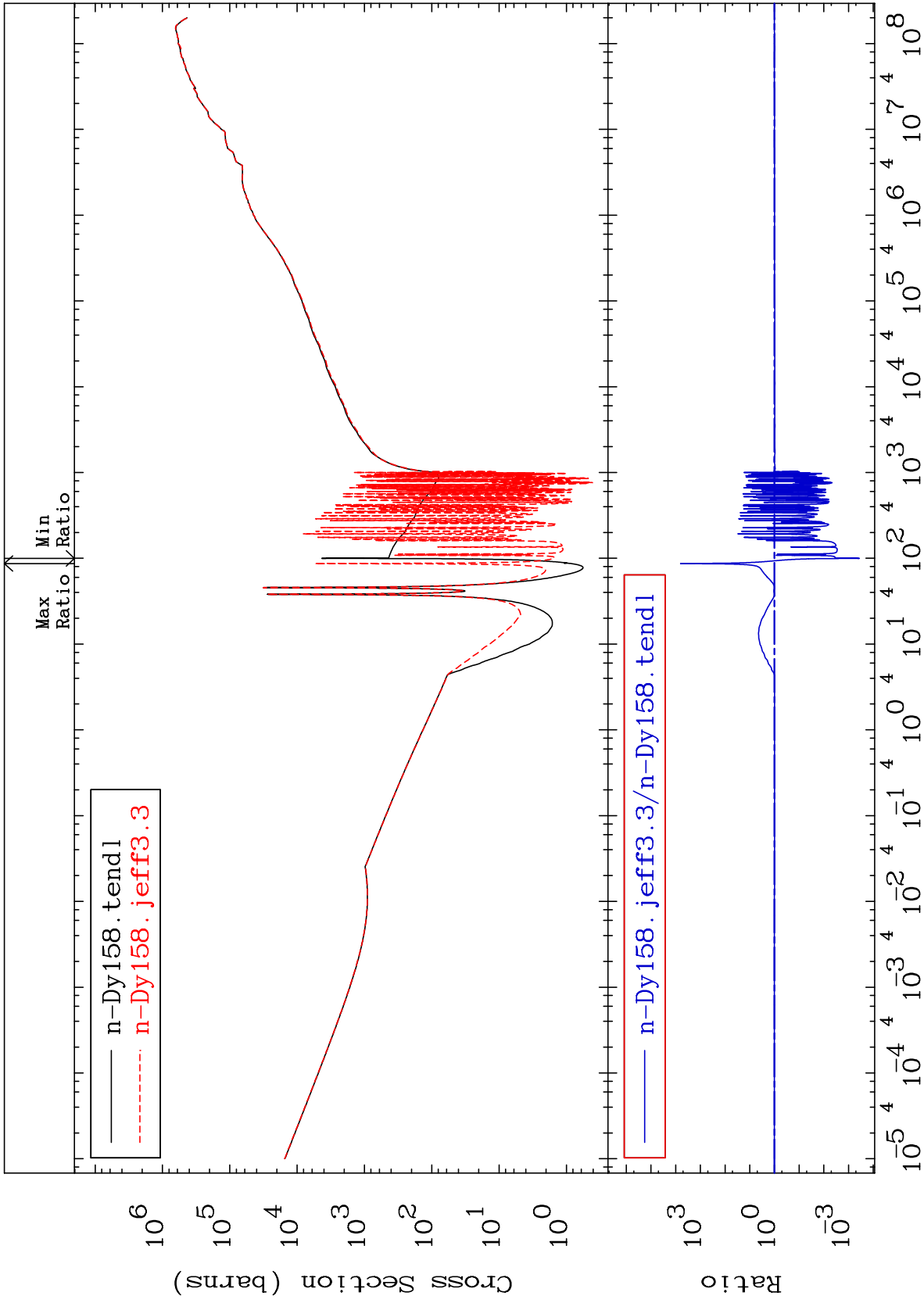
73

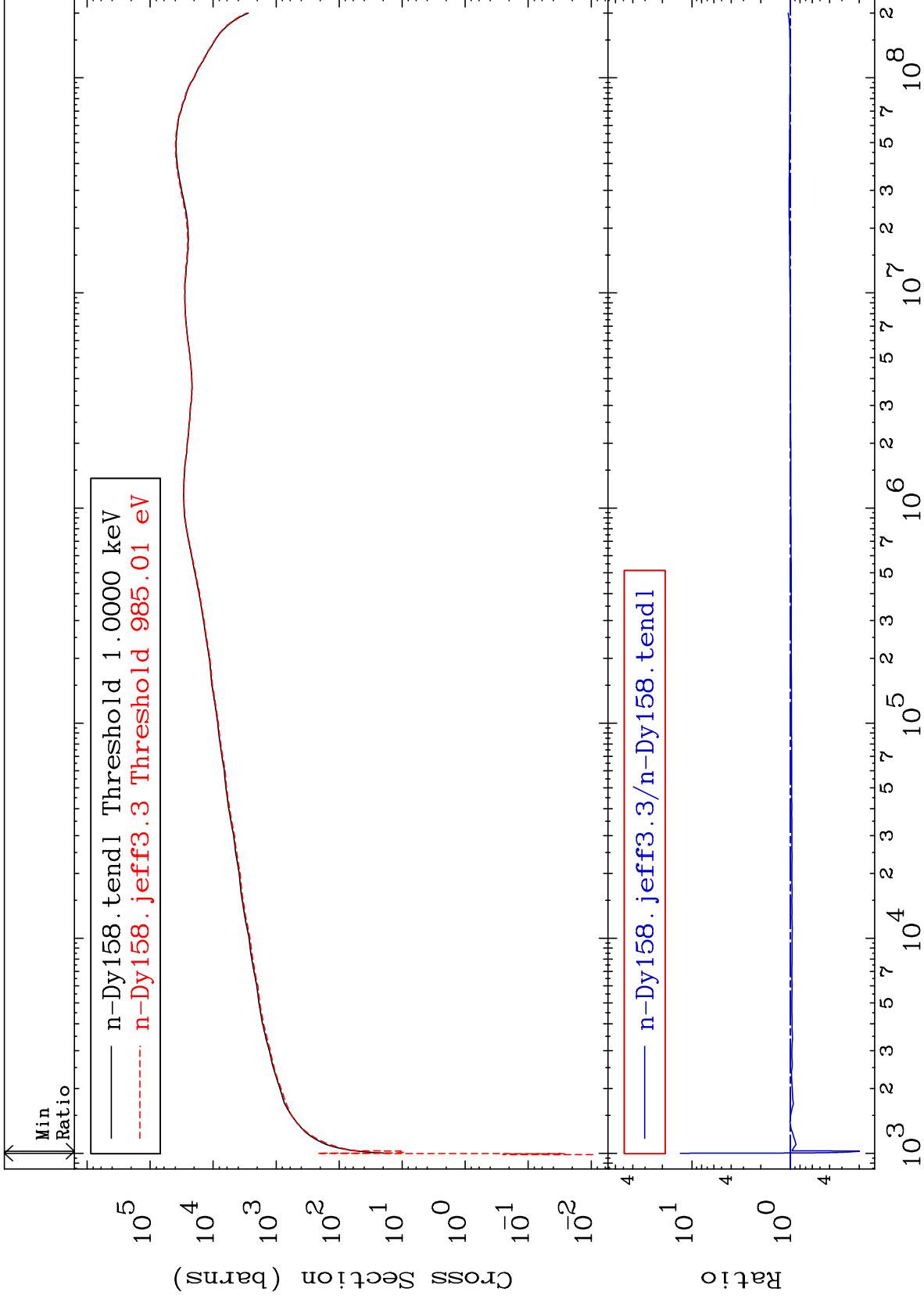
Incident Energy (eV)

66-Dy-158





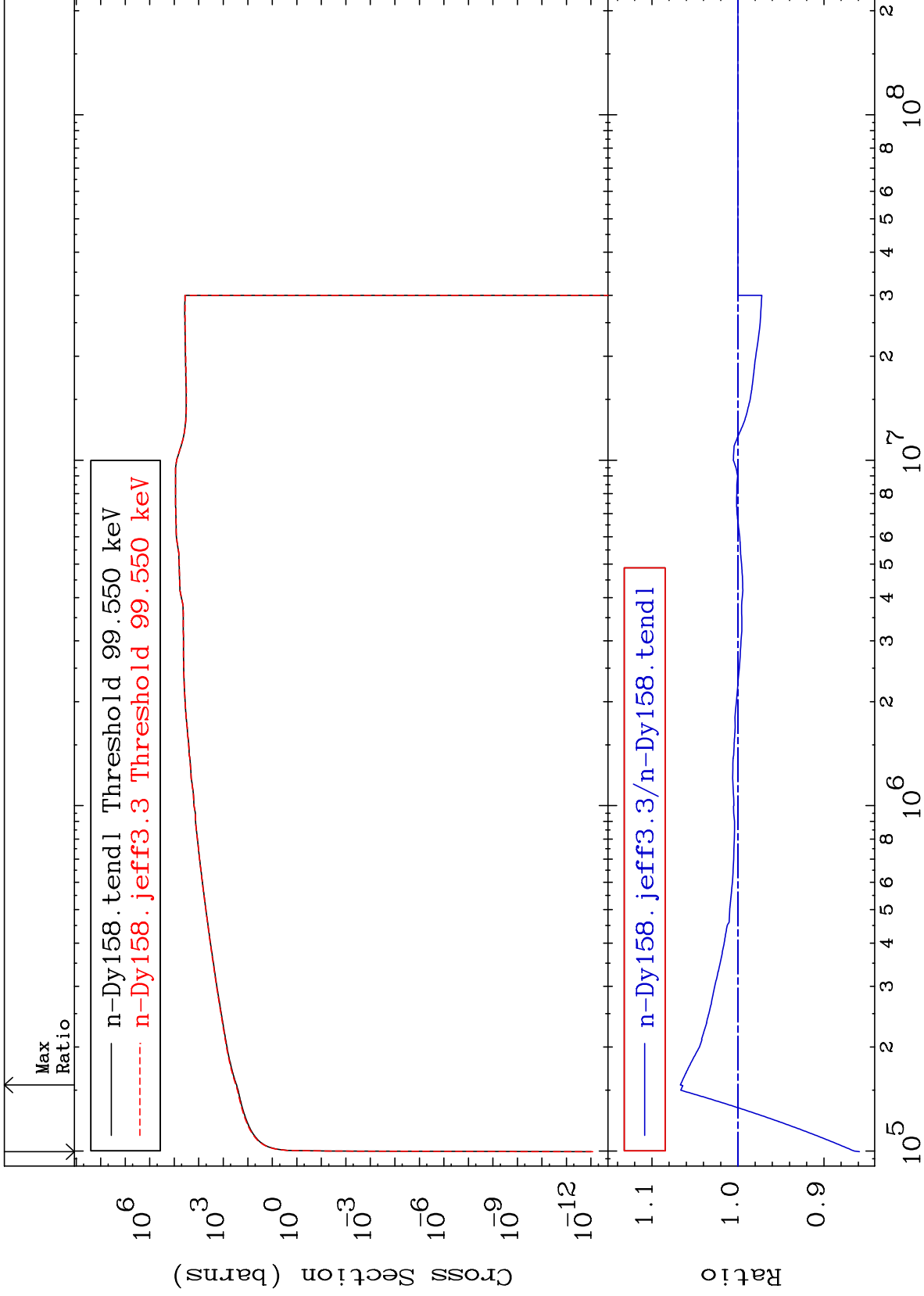




MAT 6631

Dpa inelastic (mt51-91)
Cross Section

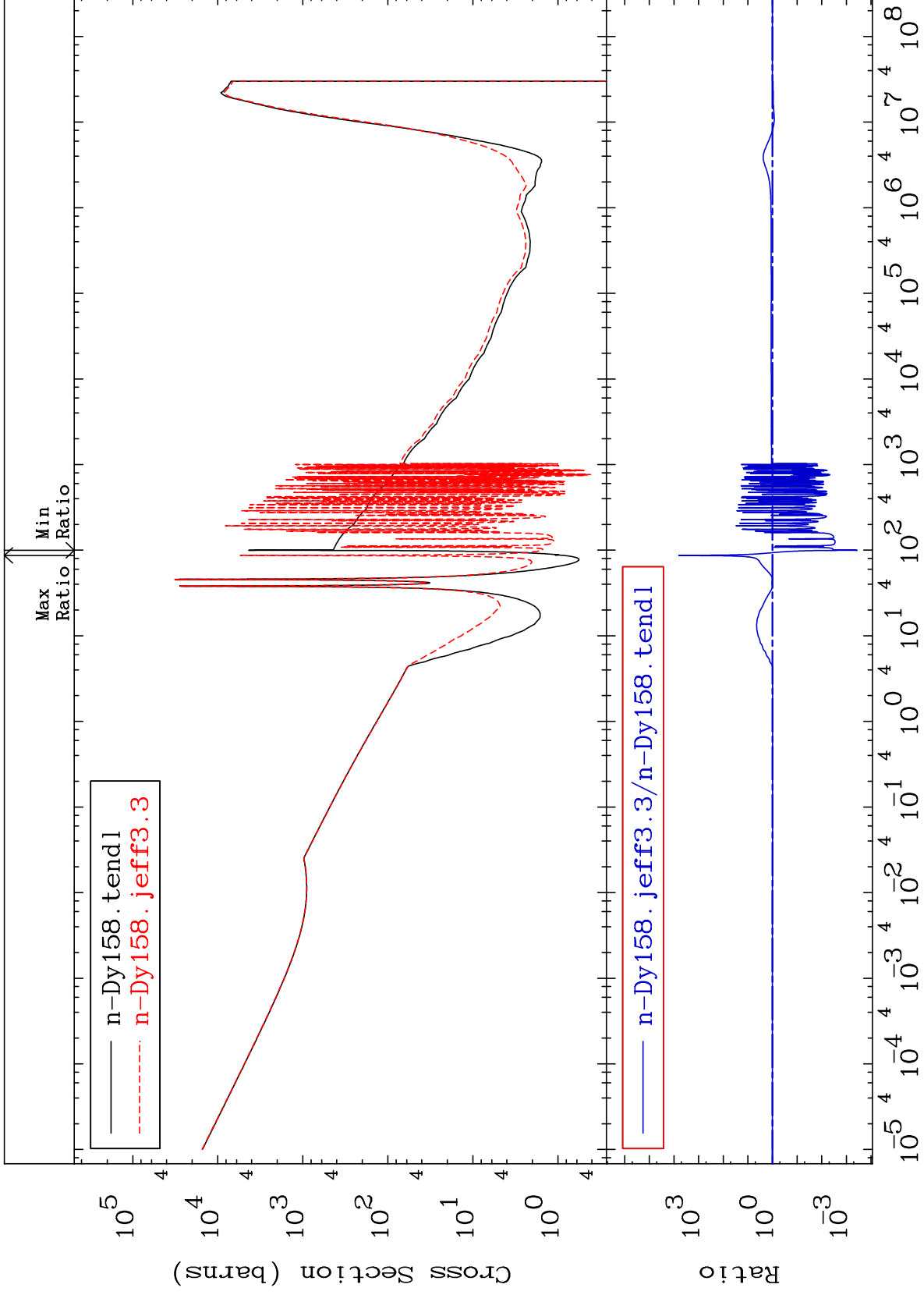
66-Dy-158
-14.13 To 6.689 %



78

Incident Energy (eV)

66-Dy-158

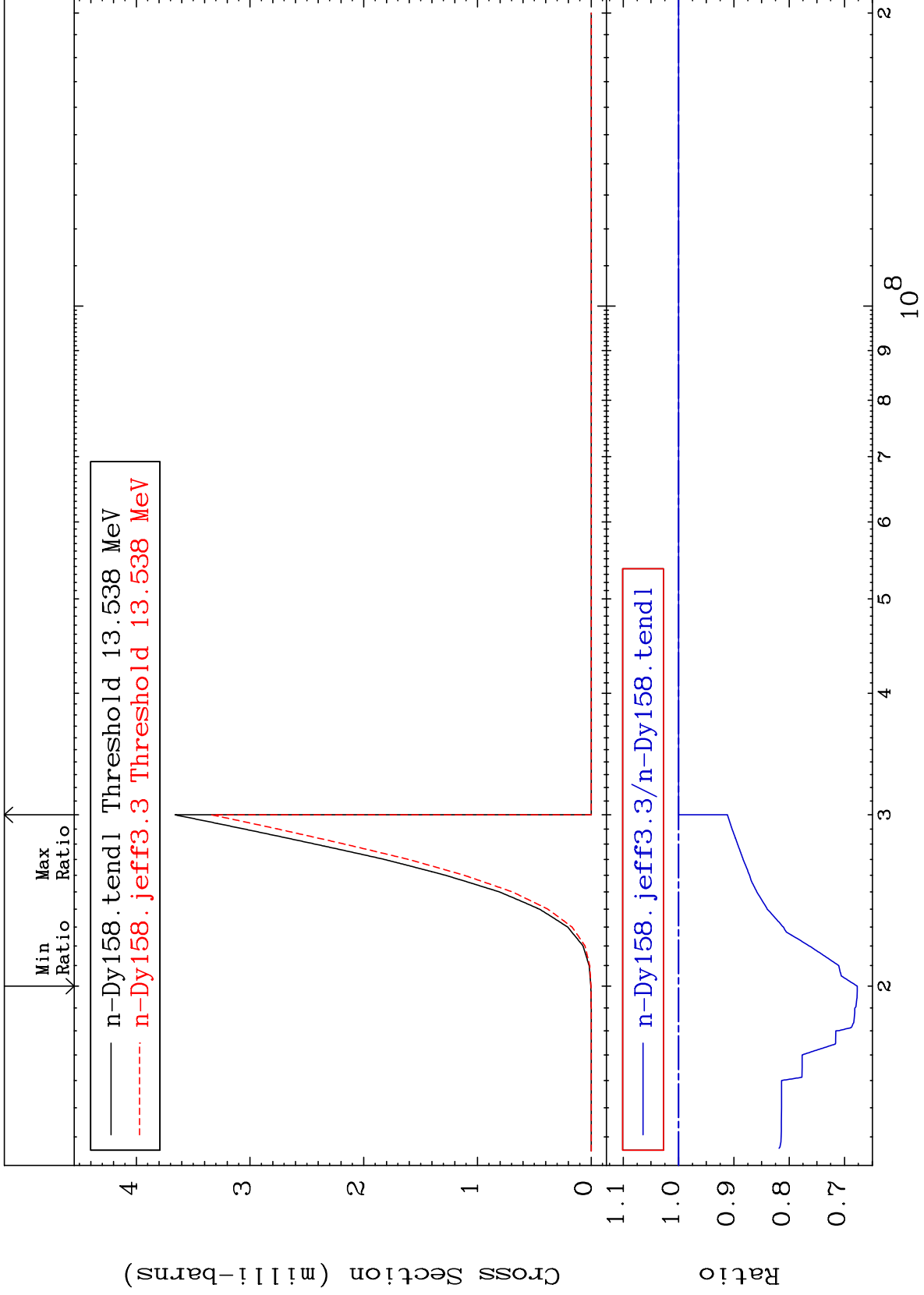


MAT 6631

(n, n') d: 65-Tb-156g

66-Dy-158

Radionuclide Production Cross Section -32.30 To 0.000 %



80

Incident Energy (eV)

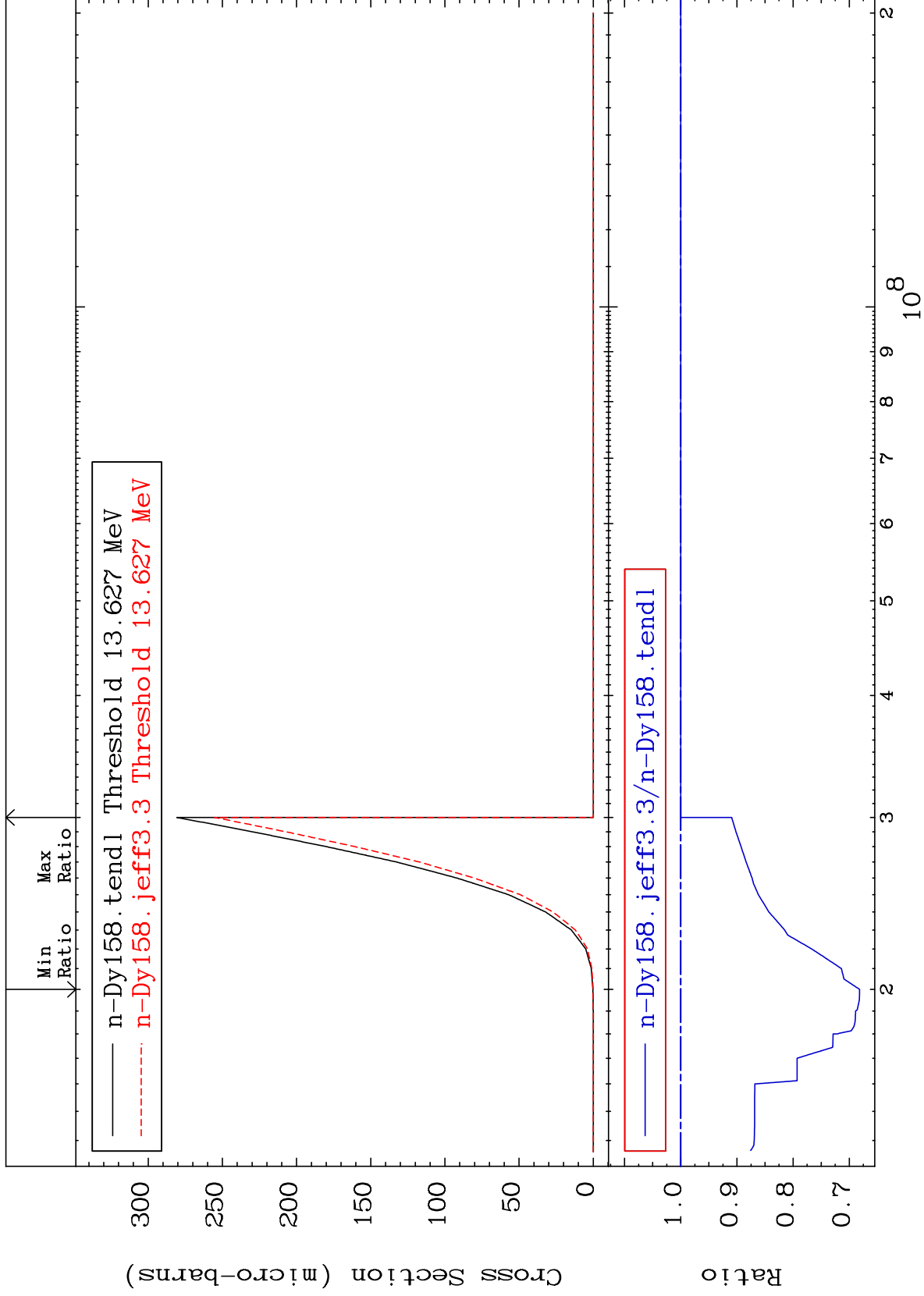
66-Dy-158

MAT 6631

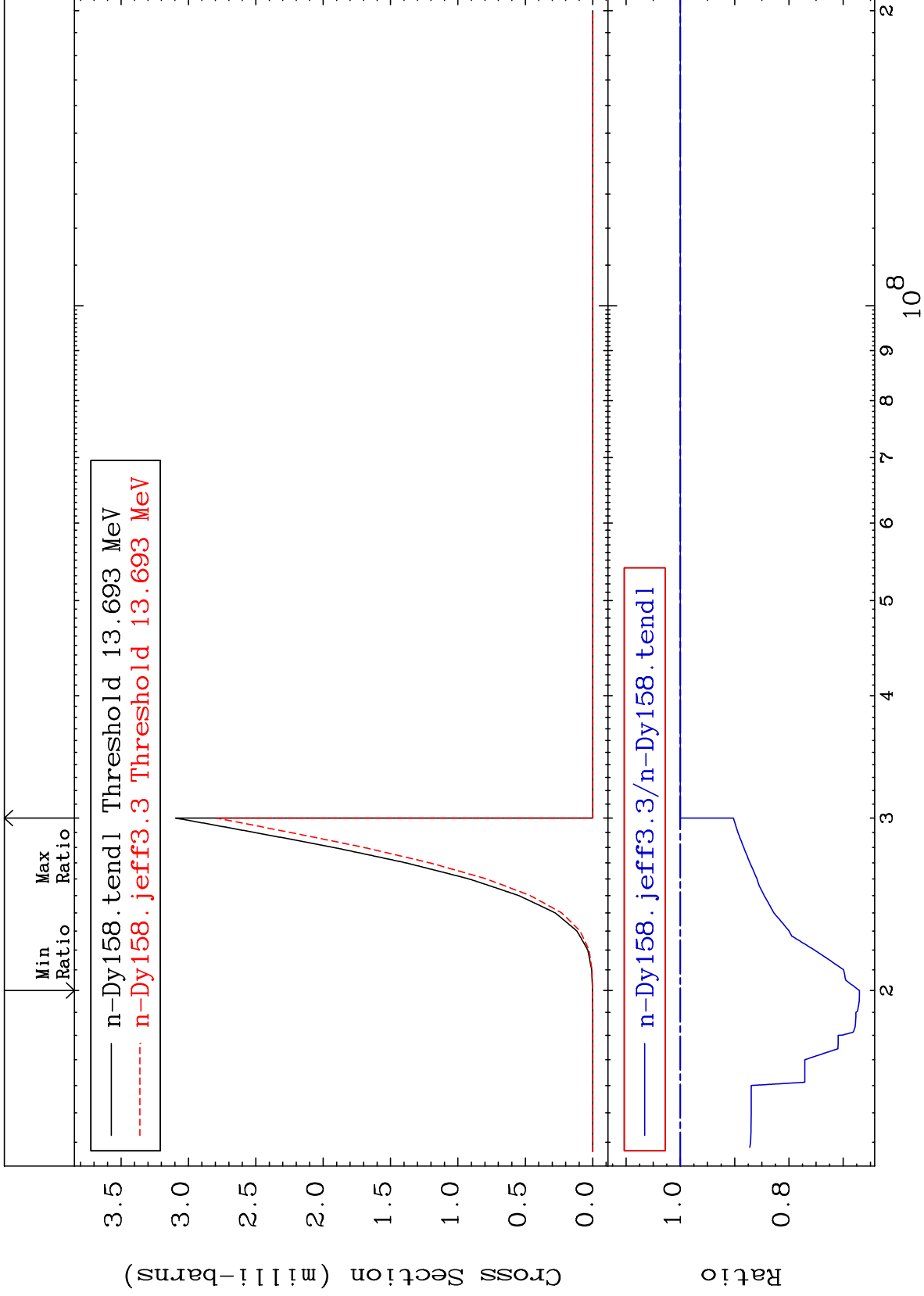
(n, n') d:65-Tb-156m3

66-Dy-158

Radionuclide Production Cross Section -31.82 To 0.000 %



Radionuclide Production Cross Section -32.98 To 0.000 %

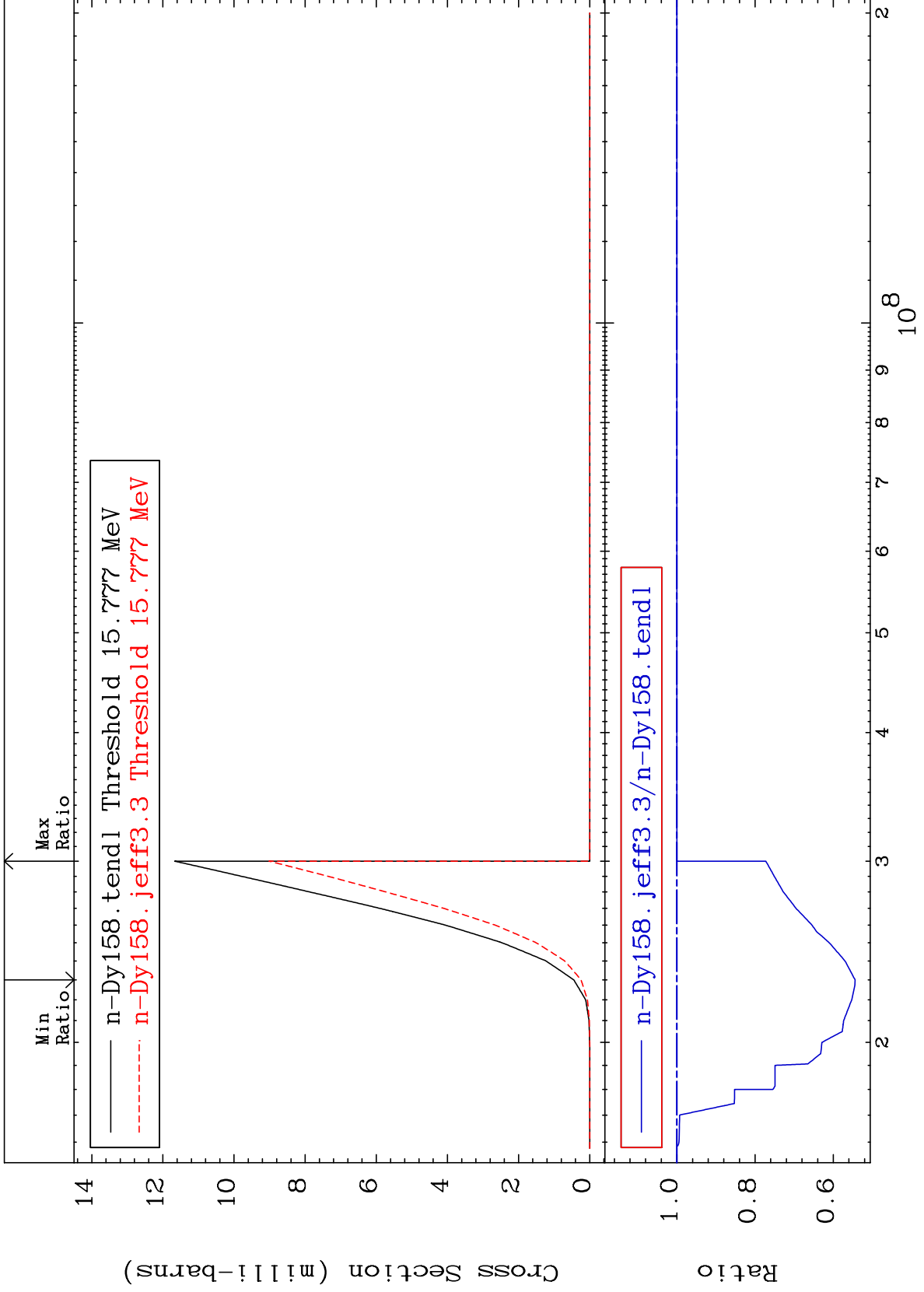


MAT 6631

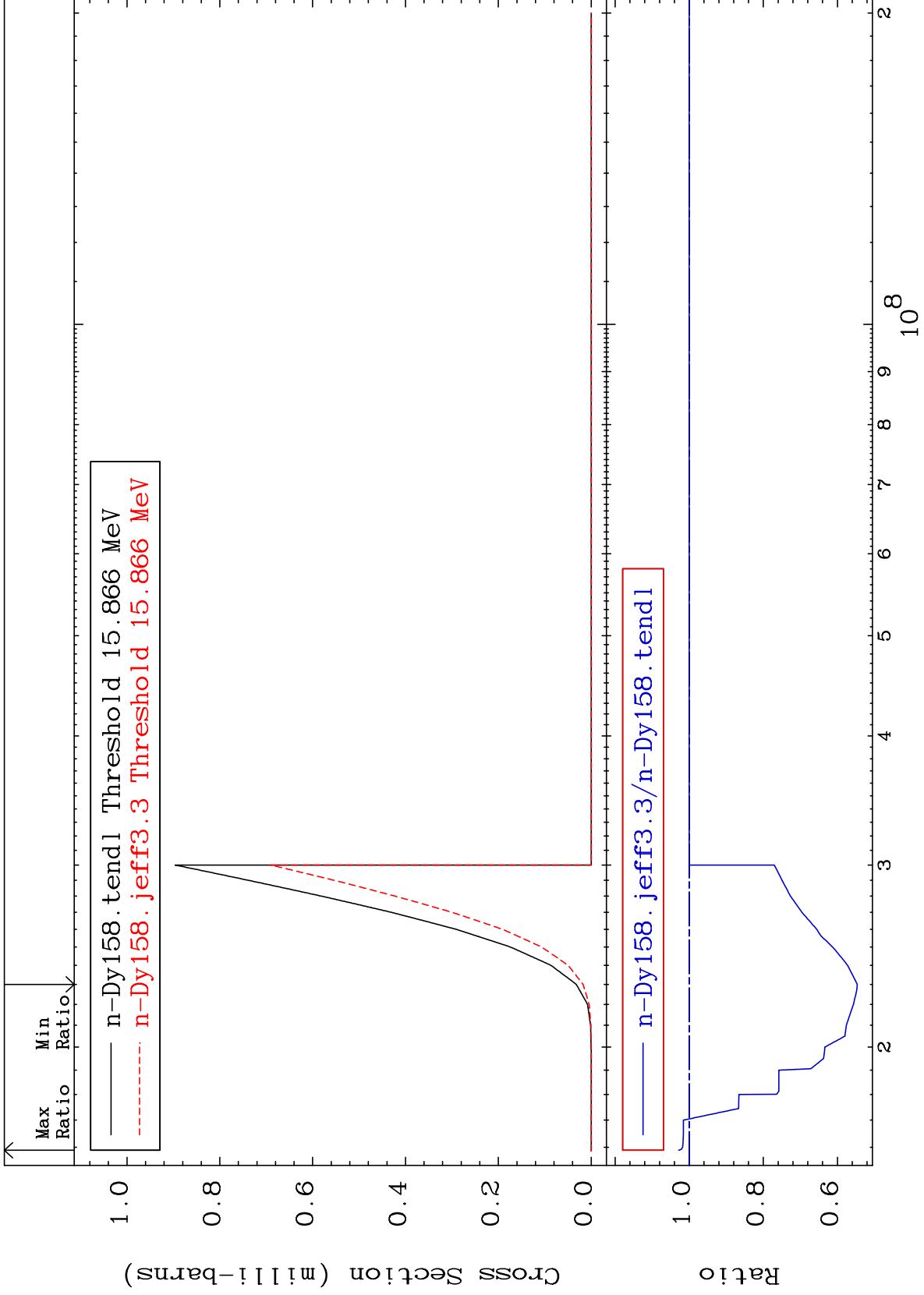
(n,2n) p: 65-Tb-156g

66-Dy-158

Radionuclide Production Cross Section -45.58 To 0.000 %



Radionuclide Production Cross Section -45.35 To 2.853 %



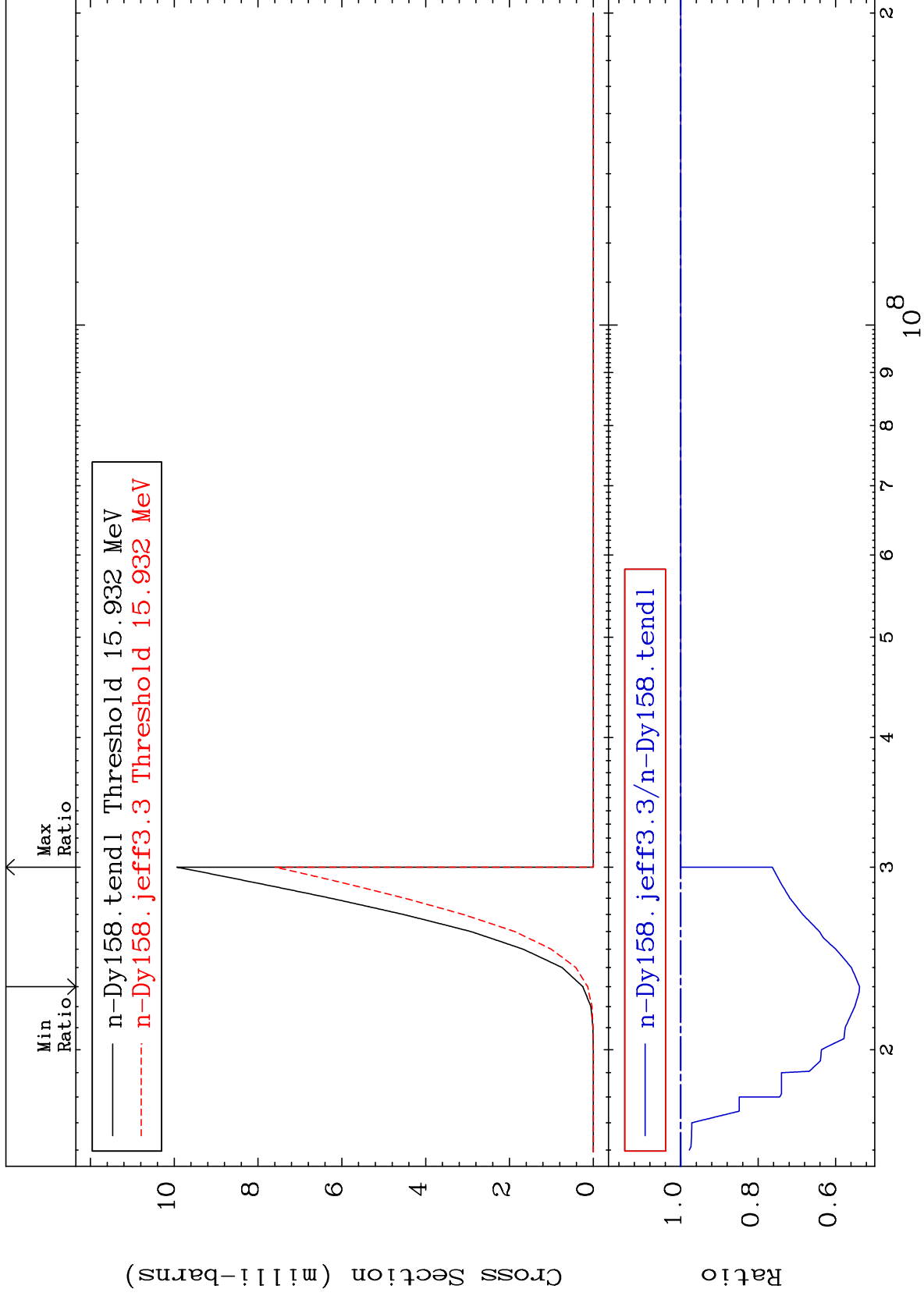
MAT 6631

(n,2n) p:65-Tb-156m6

66-Dy-158

Radionuclide Production Cross Section

-46.20 To 0.000 %



85

Incident Energy (eV)

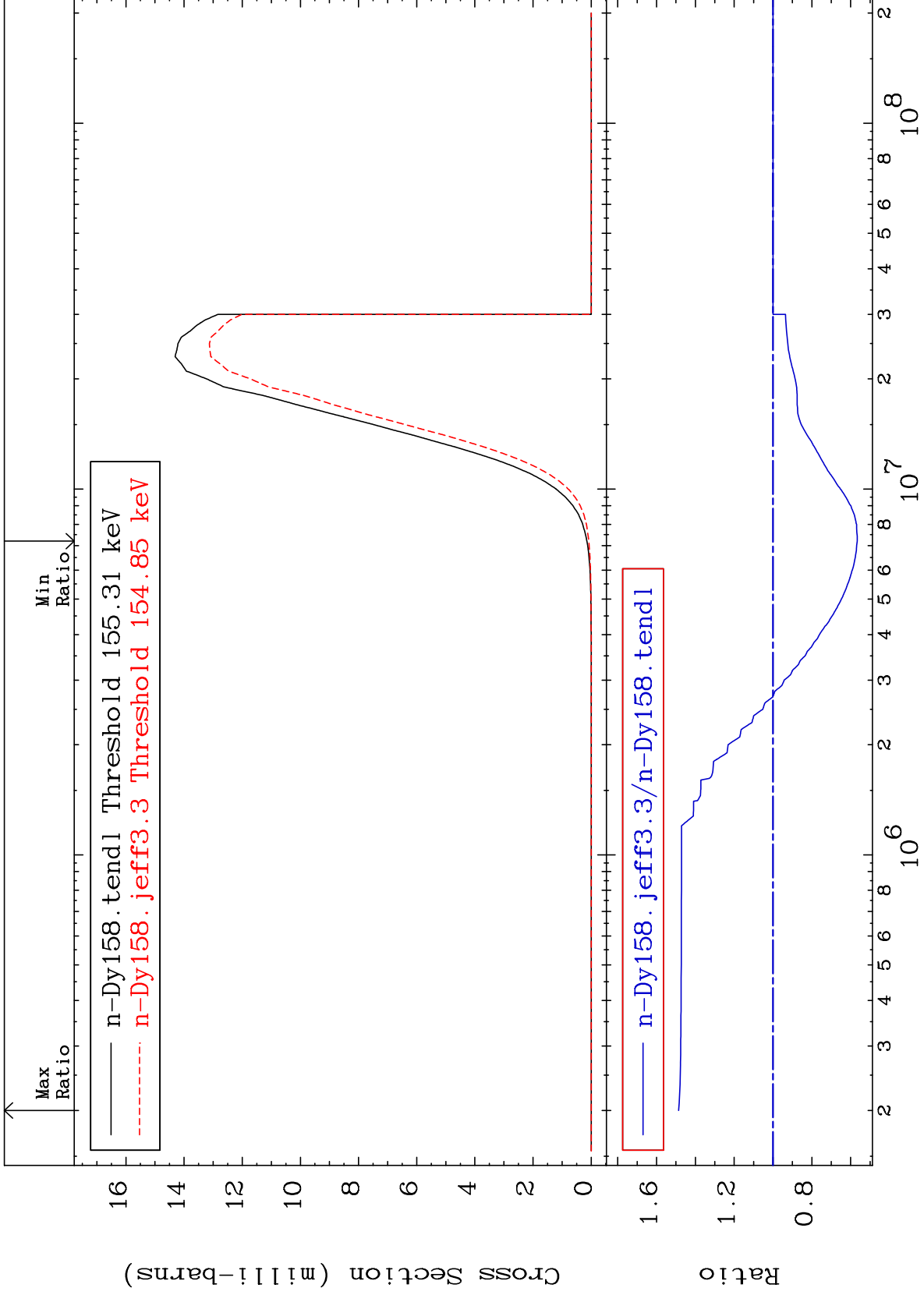
66-Dy-158

MAT 6631

(n, p) : 65-Tb-158g

66-Dy-158

Radionuclide Production Cross Section -43.38 To 48.62 %



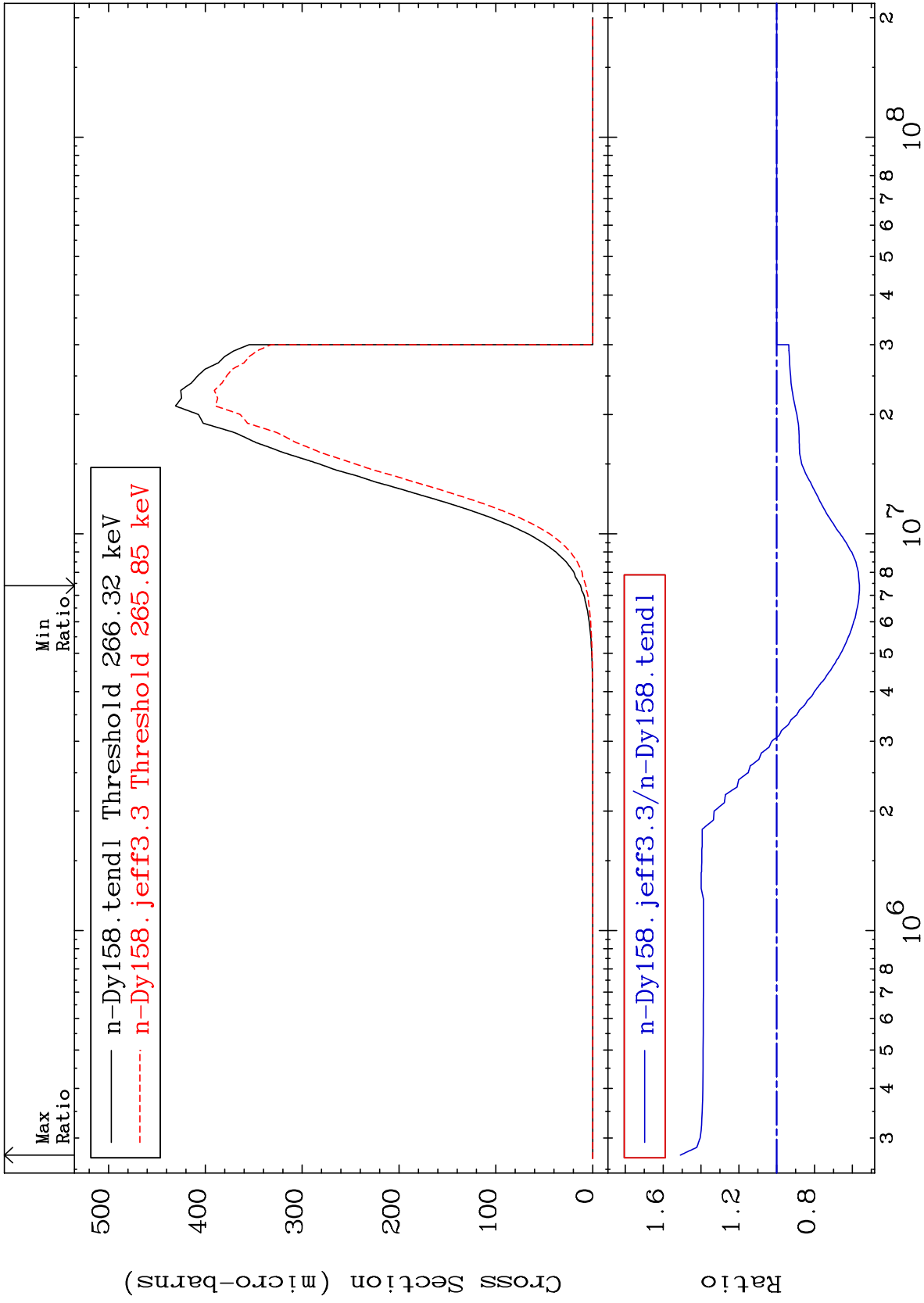
MAT 6631

(n, p) : 65-Tb-158m3

66-Dy-158

Radionuclide Production Cross Section

-43.72 To 50.93 %



87

66-Dy-158

66-Dy-158

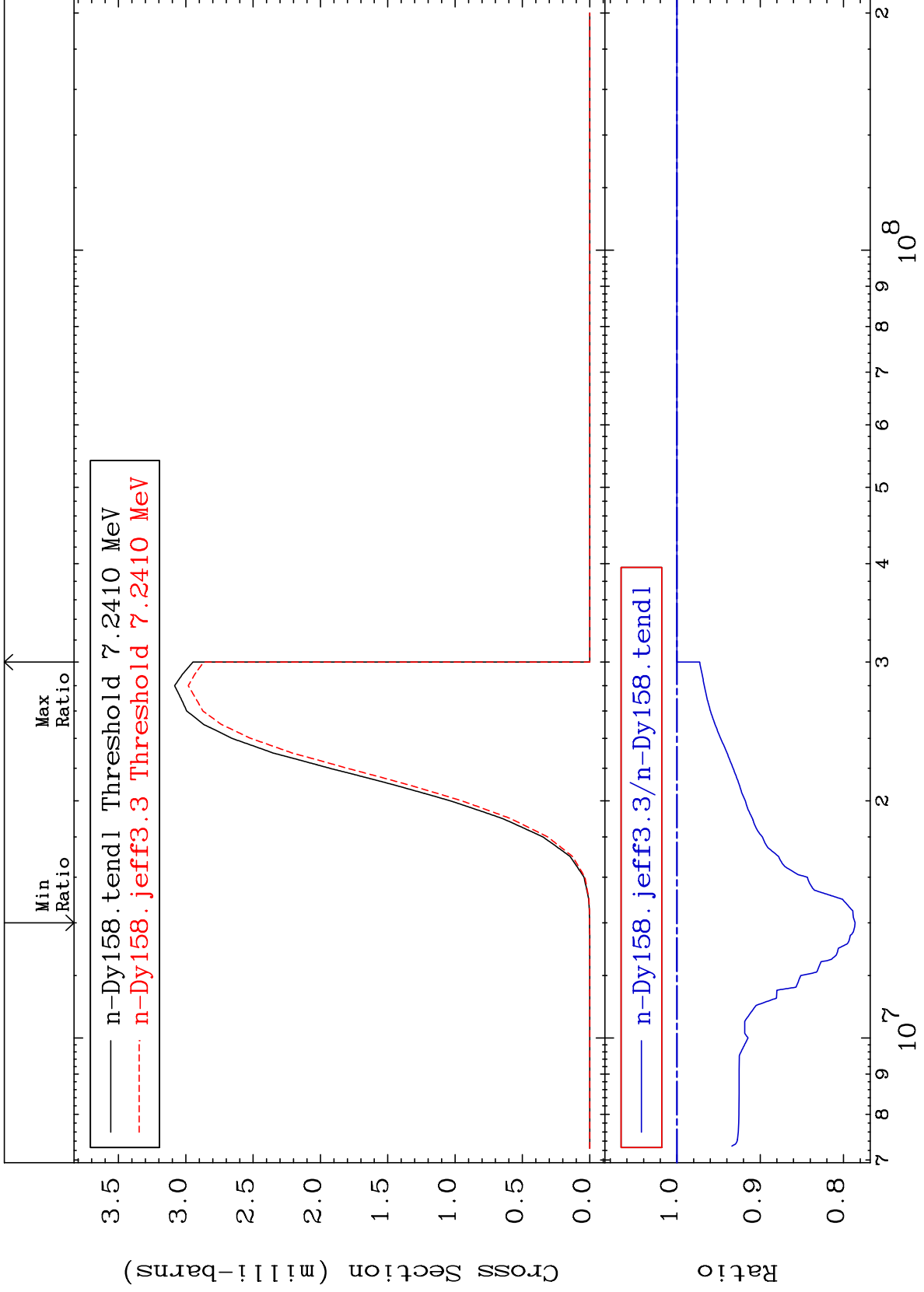
MAT 6631

(n, t) : 65-Tb-156g

66-Dy-158

Radionuclide Production Cross Section

-21.39 To 0.000 %



88

Incident Energy (eV)

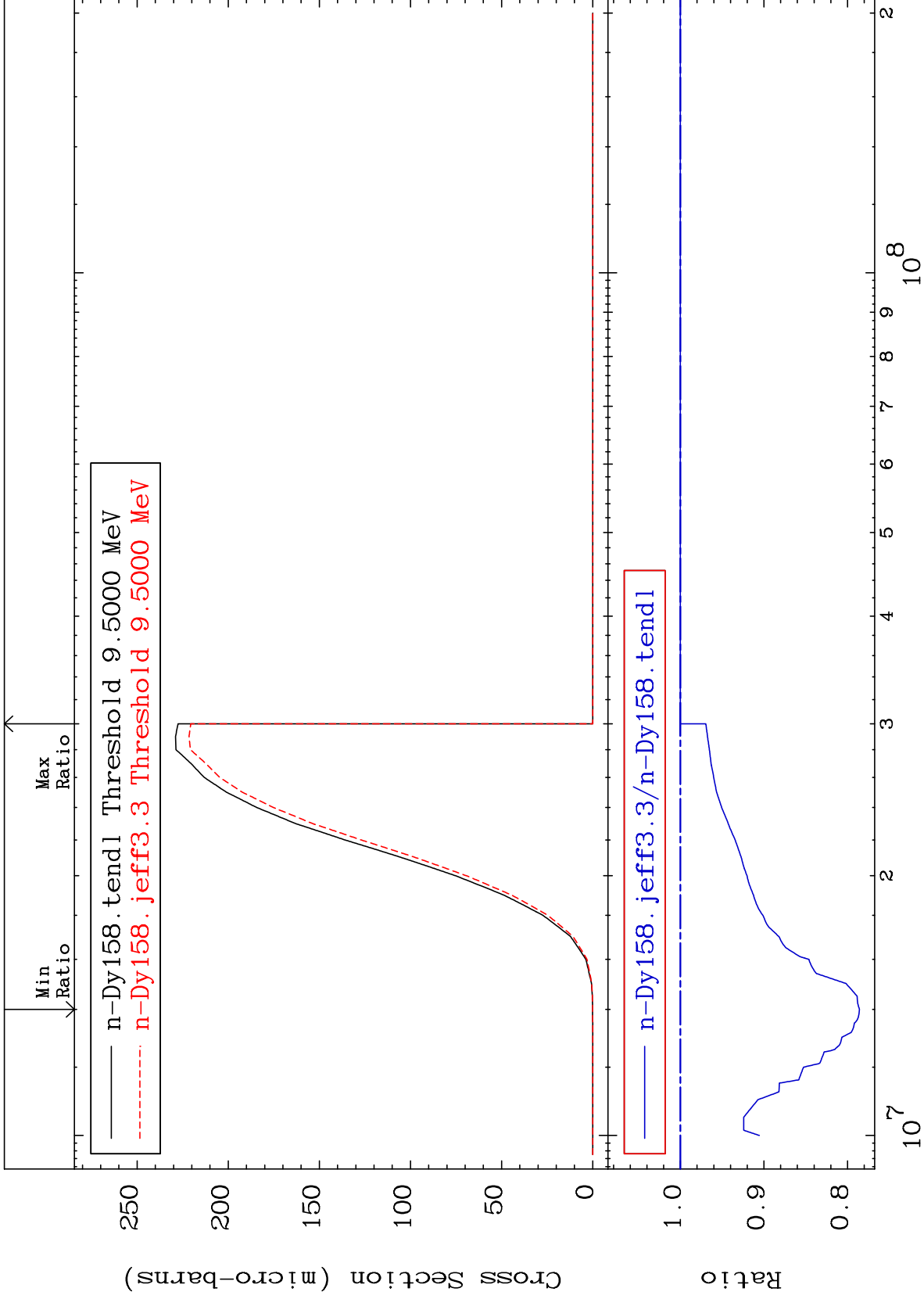
66-Dy-158

MAT 6631

(n, t): 65-Tb-156m3

66-Dy-158

Radionuclide Production Cross Section -21.43 To 0.000 %



89

Incident Energy (eV)

66-Dy-158

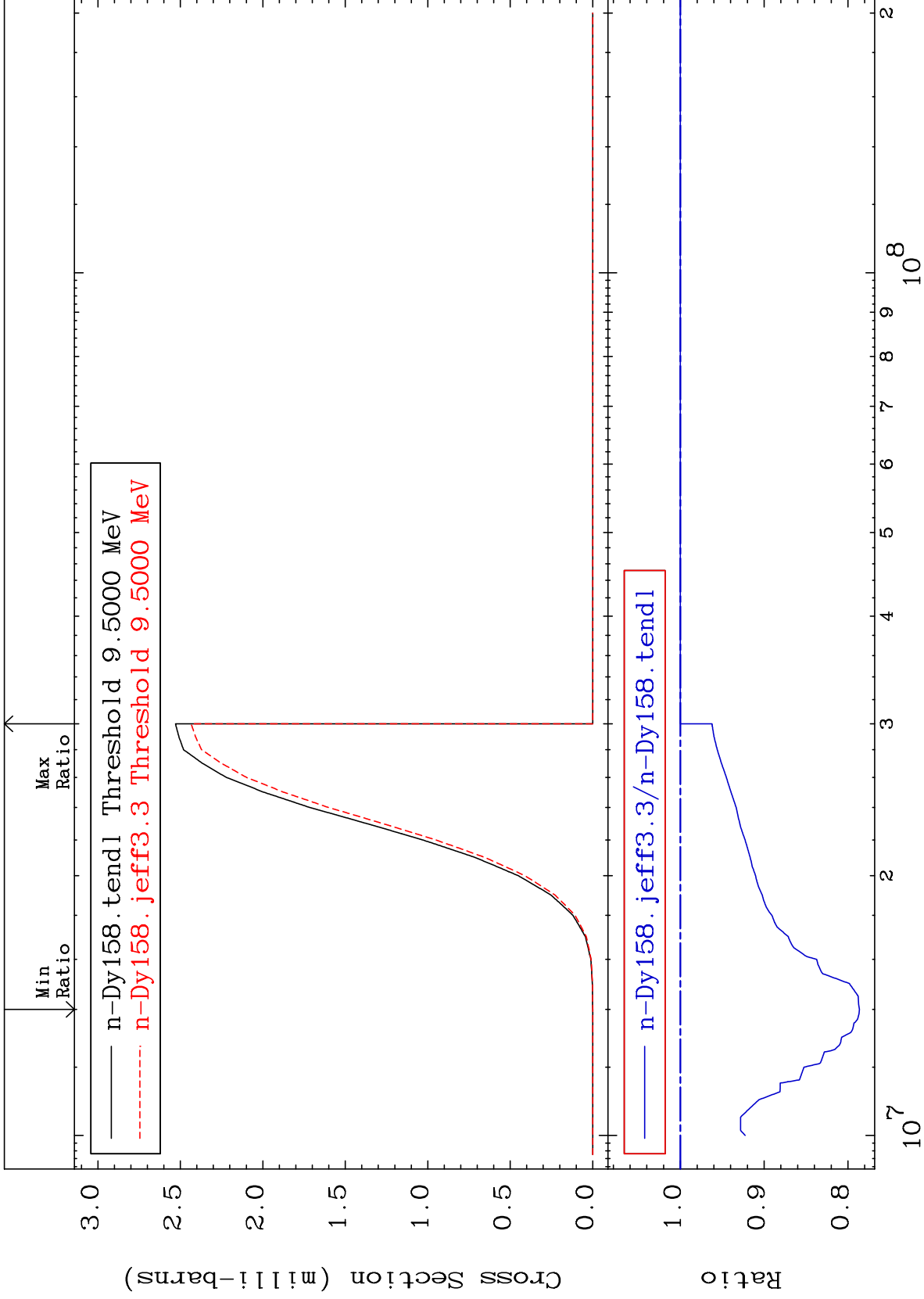
MAT 6631

(n, t) : 65-Tb-156m6

66-Dy-158

Radionuclide Production Cross Section

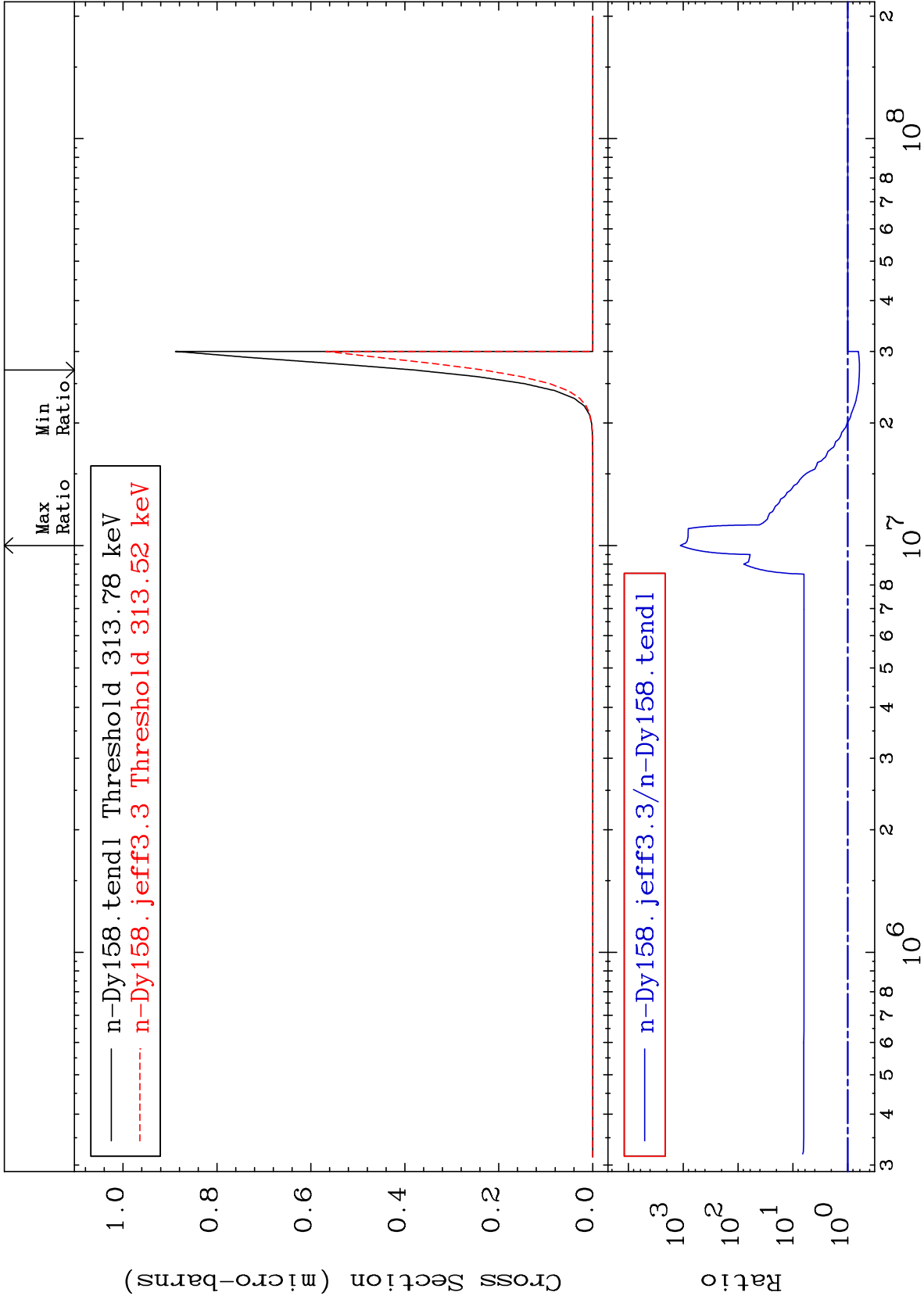
-21.37 To 0.000 %



90

Incident Energy (eV)

66-Dy-158



MAT 6631

(n, p) α : 63-Eu-154m13

66-Dy-158

Radionuclide Production Cross Section

-39.20 To 9999. %

