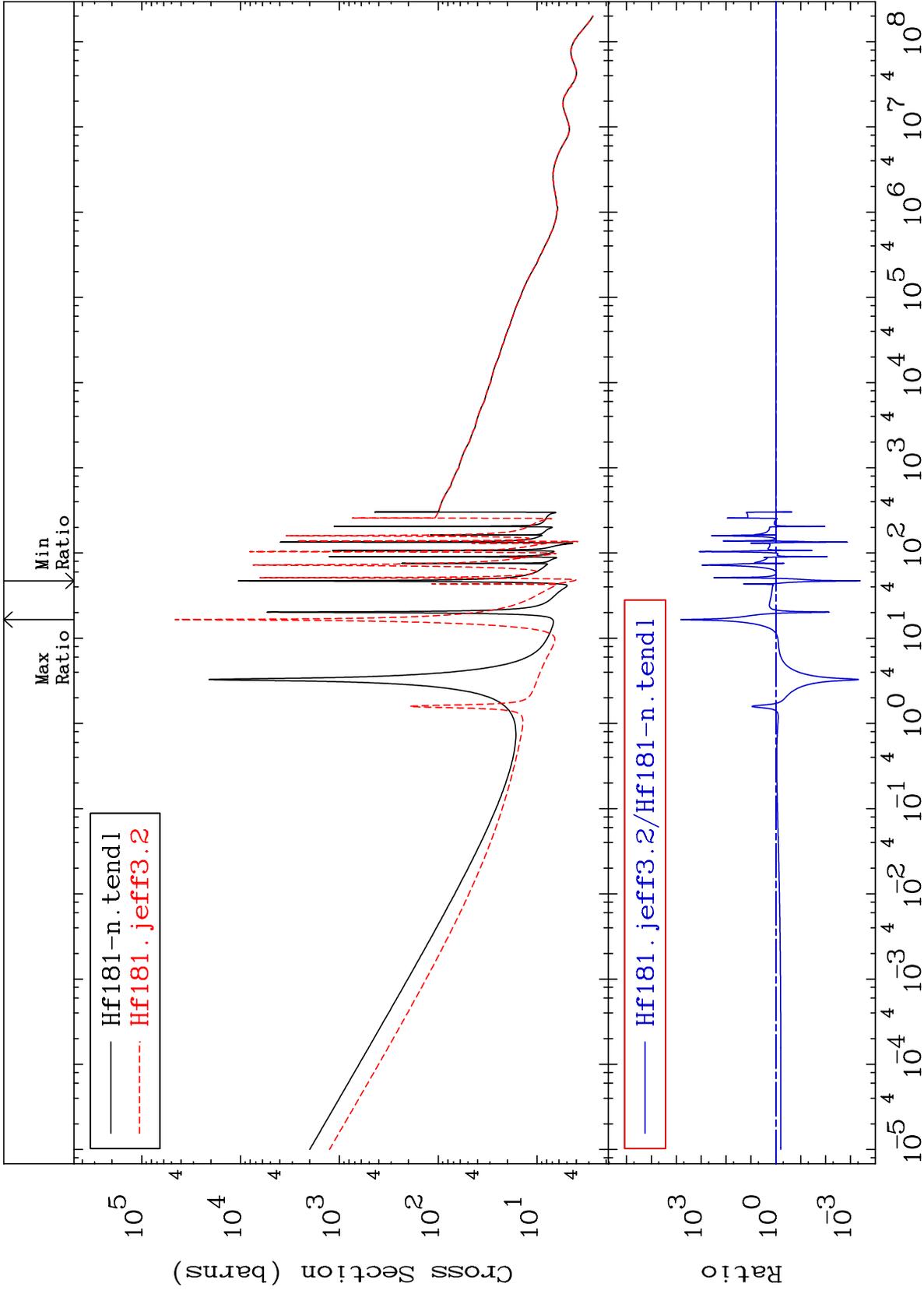


MAT 7246

Total
Cross Section

72-Hf-181
-99.96 To 9999. %

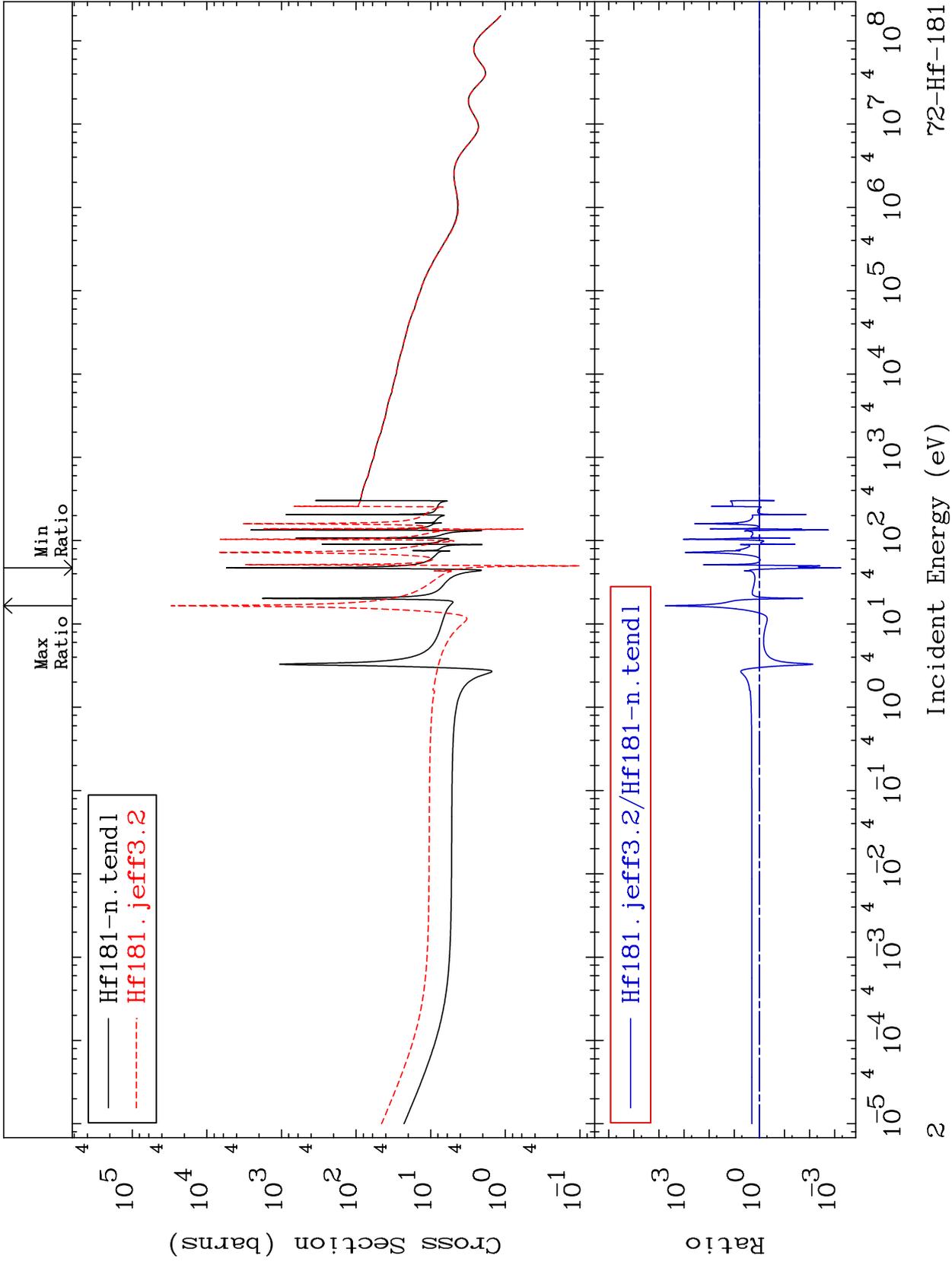


Incident Energy (eV)

72-Hf-181

MAT 7246

Elastic Cross Section
72-Hf-181
-99.94 To 9999. %



72-Hf-181

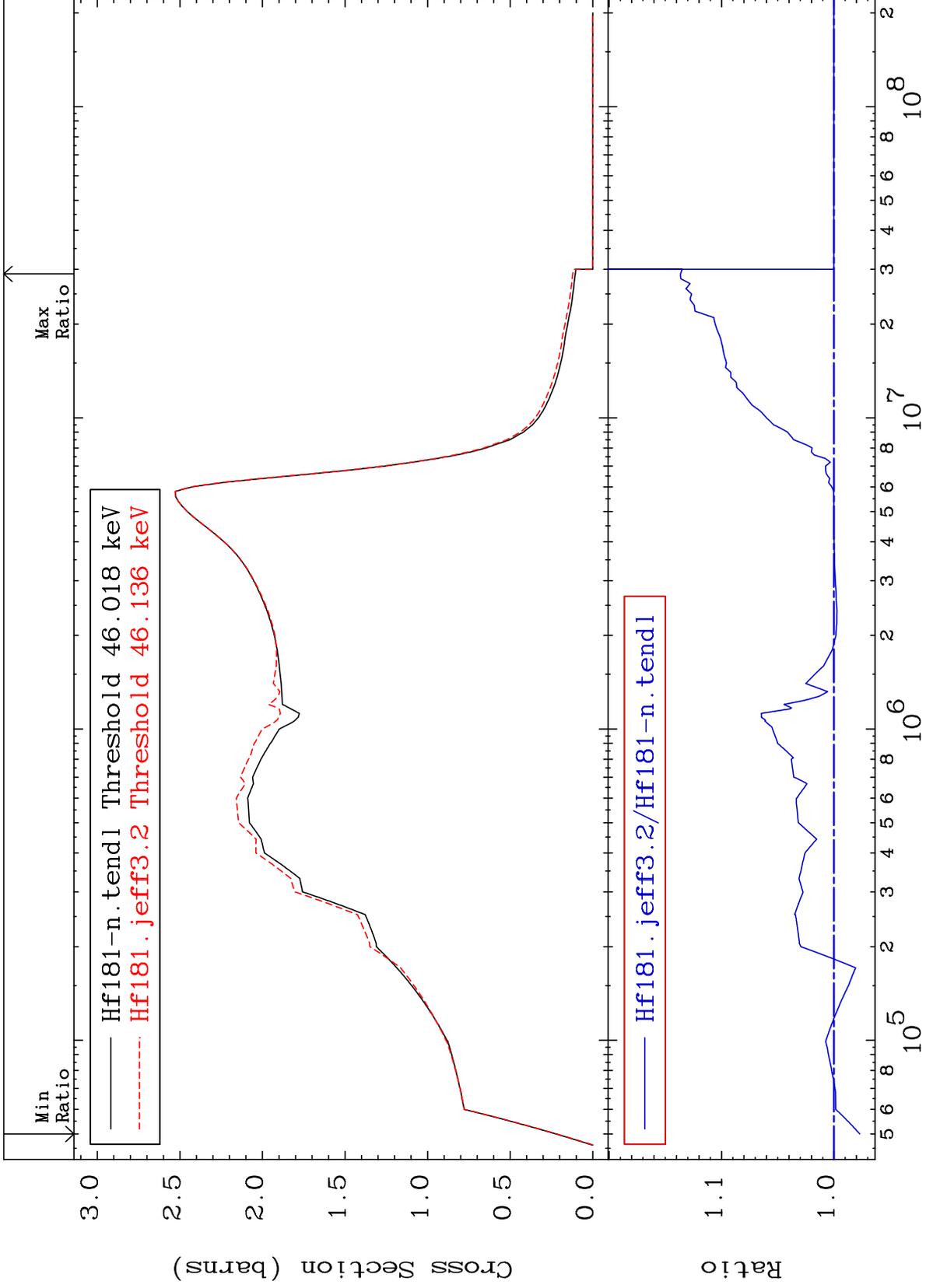
Incident Energy (eV)

2

MAT 7246

Inelastic
Cross Section

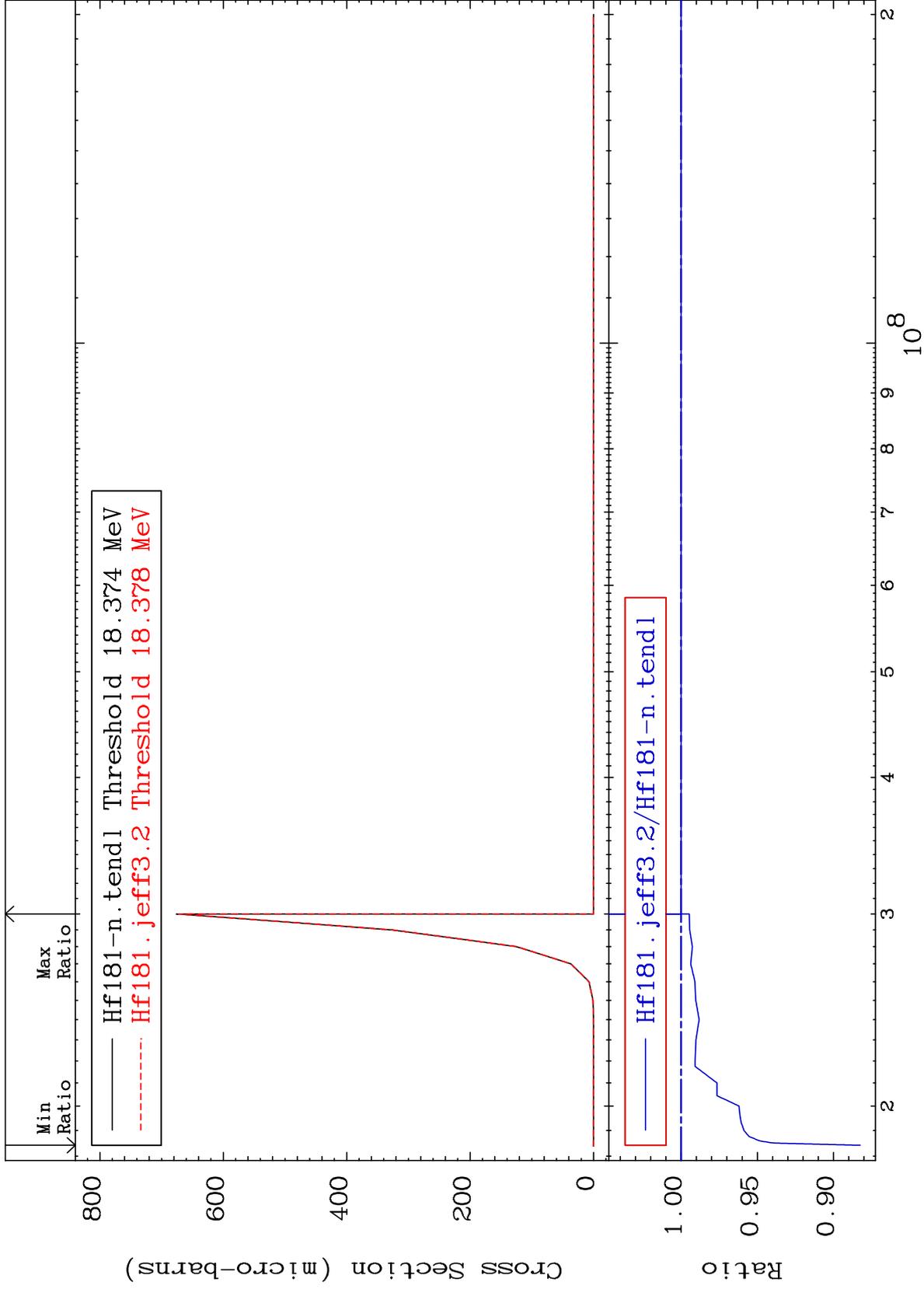
⁷²Hf-181
-2.293 To 13.65 %



MAT 7246

(n,2n) d
Cross Section

⁷²Hf-181
-11.75 To 0.000 %



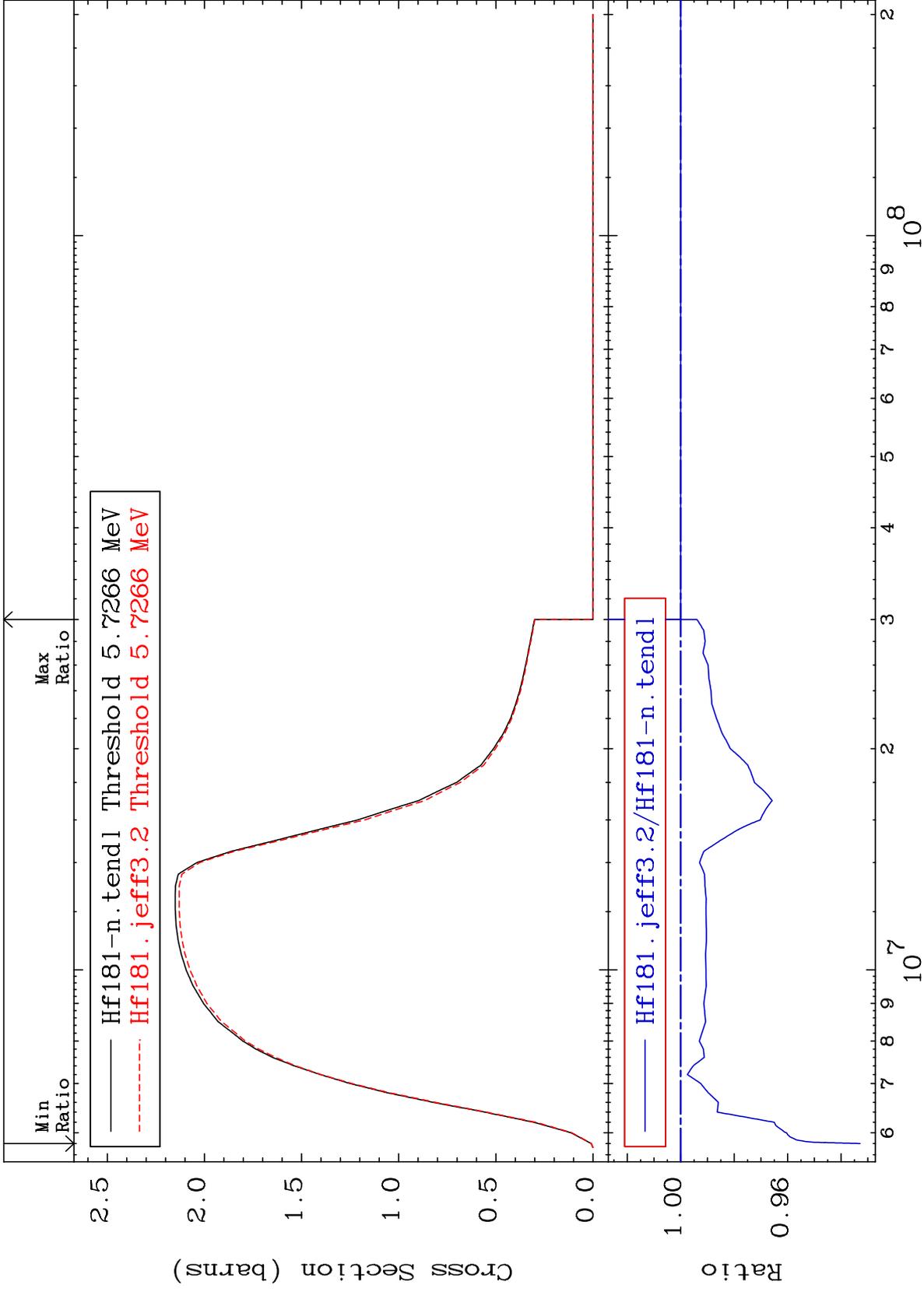
MAT 7246

(n,2n)

72-Hf-181

Cross Section

-6.708 To 0.000 %



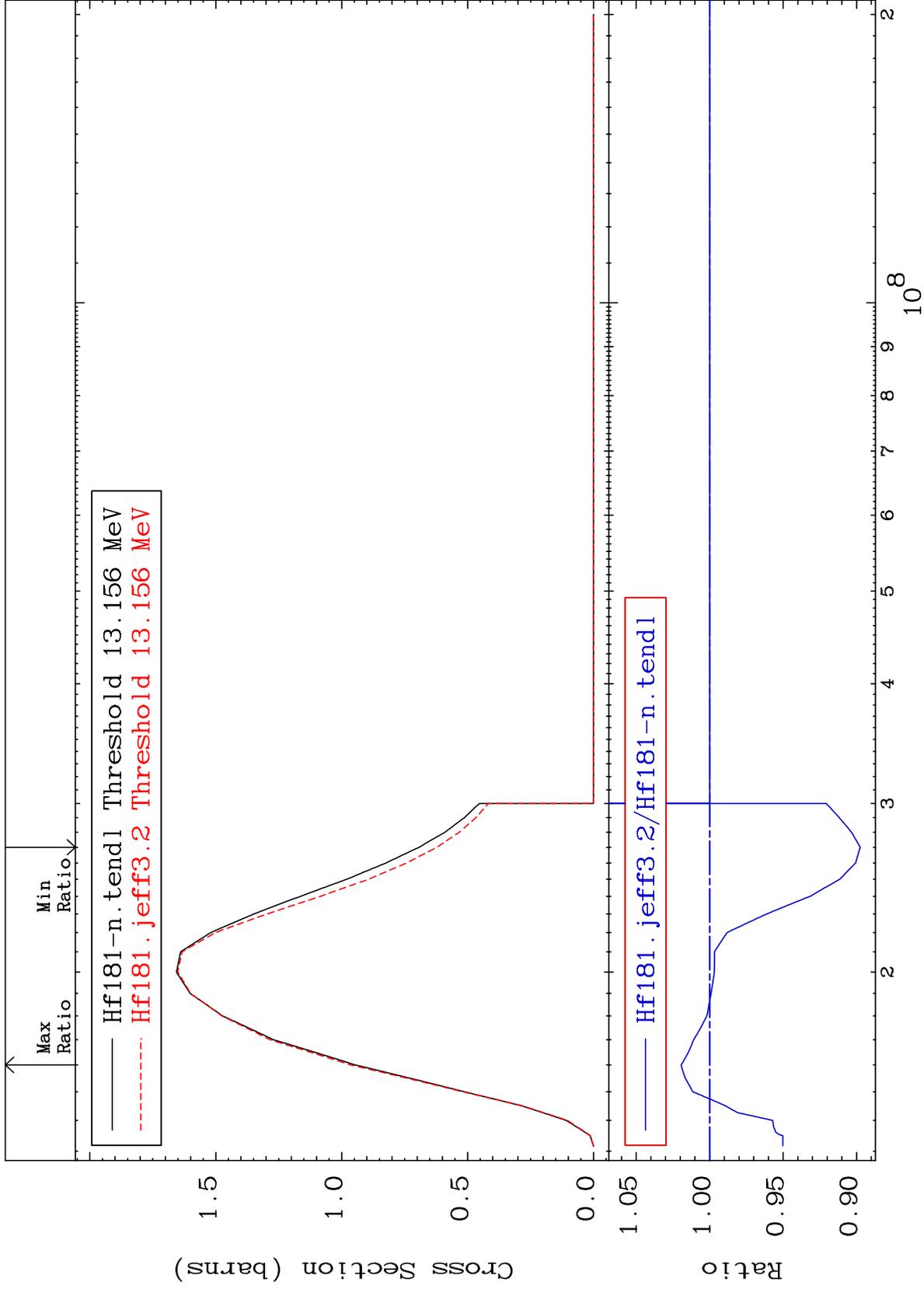
5

Incident Energy (eV)

72-Hf-181

Cross Section

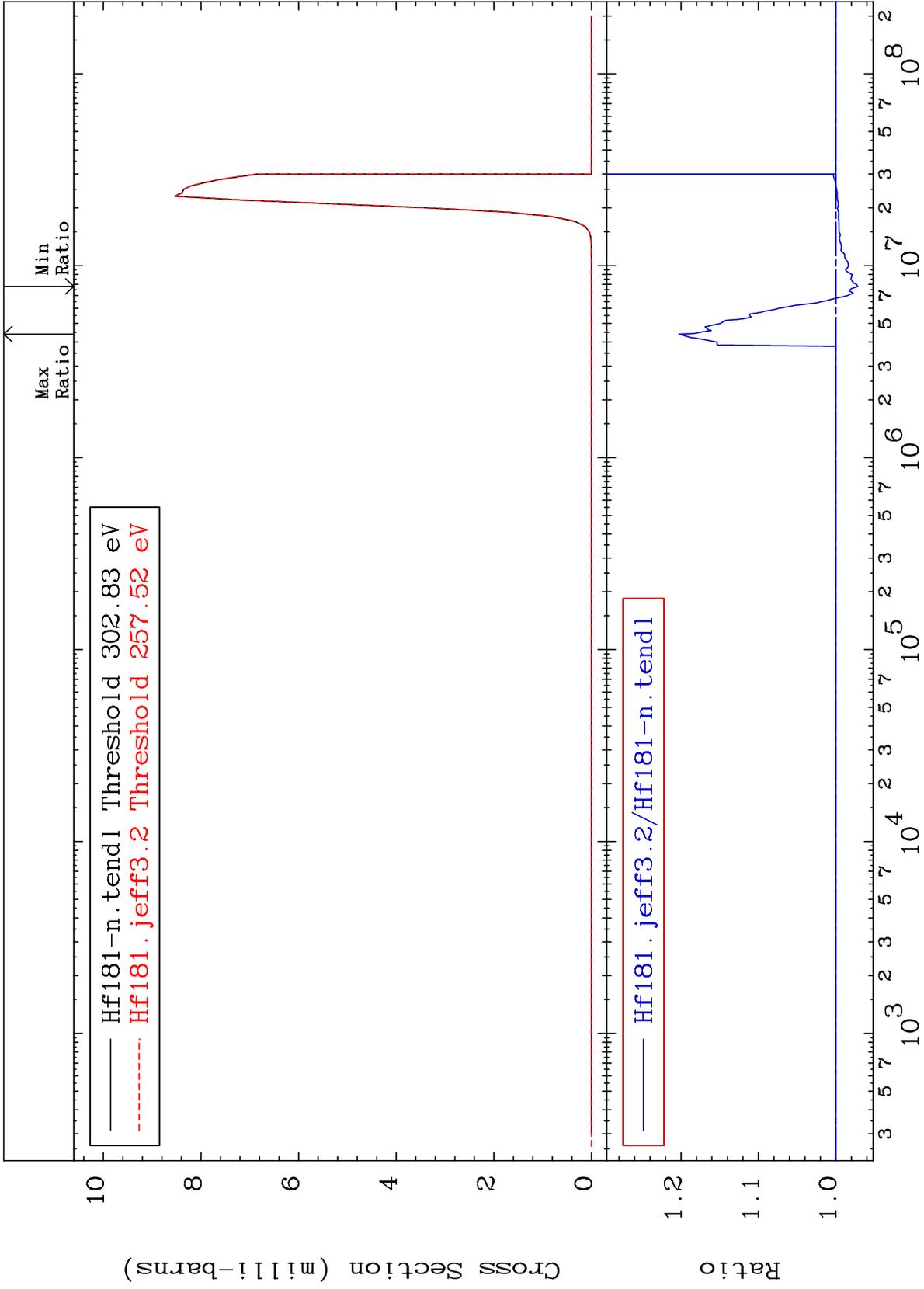
-10.25 To 1.935 %



MAT 7246

(n, n') α
Cross Section

72-Hf-181
-2.844 To 20.25 %



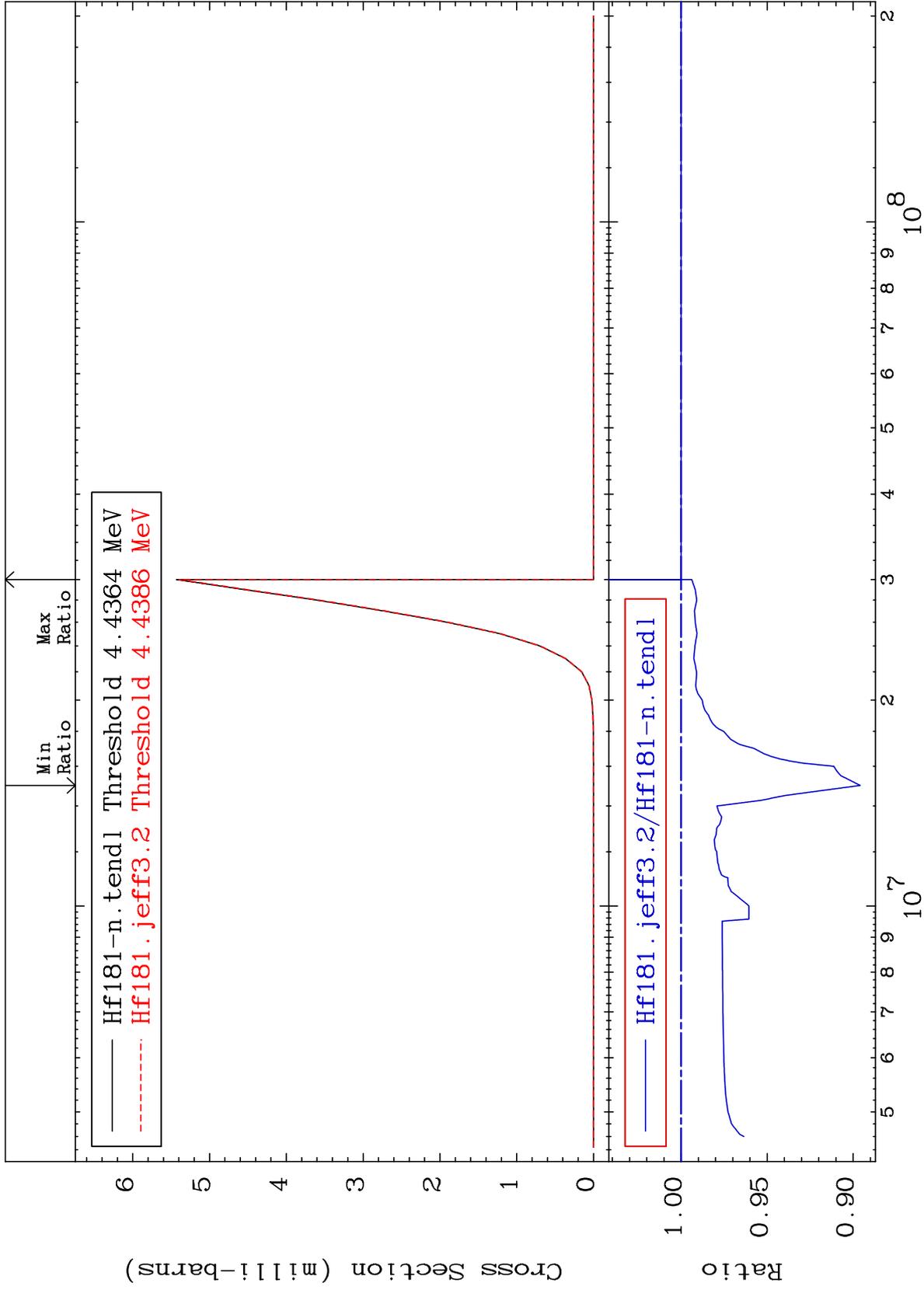
MAT 7246

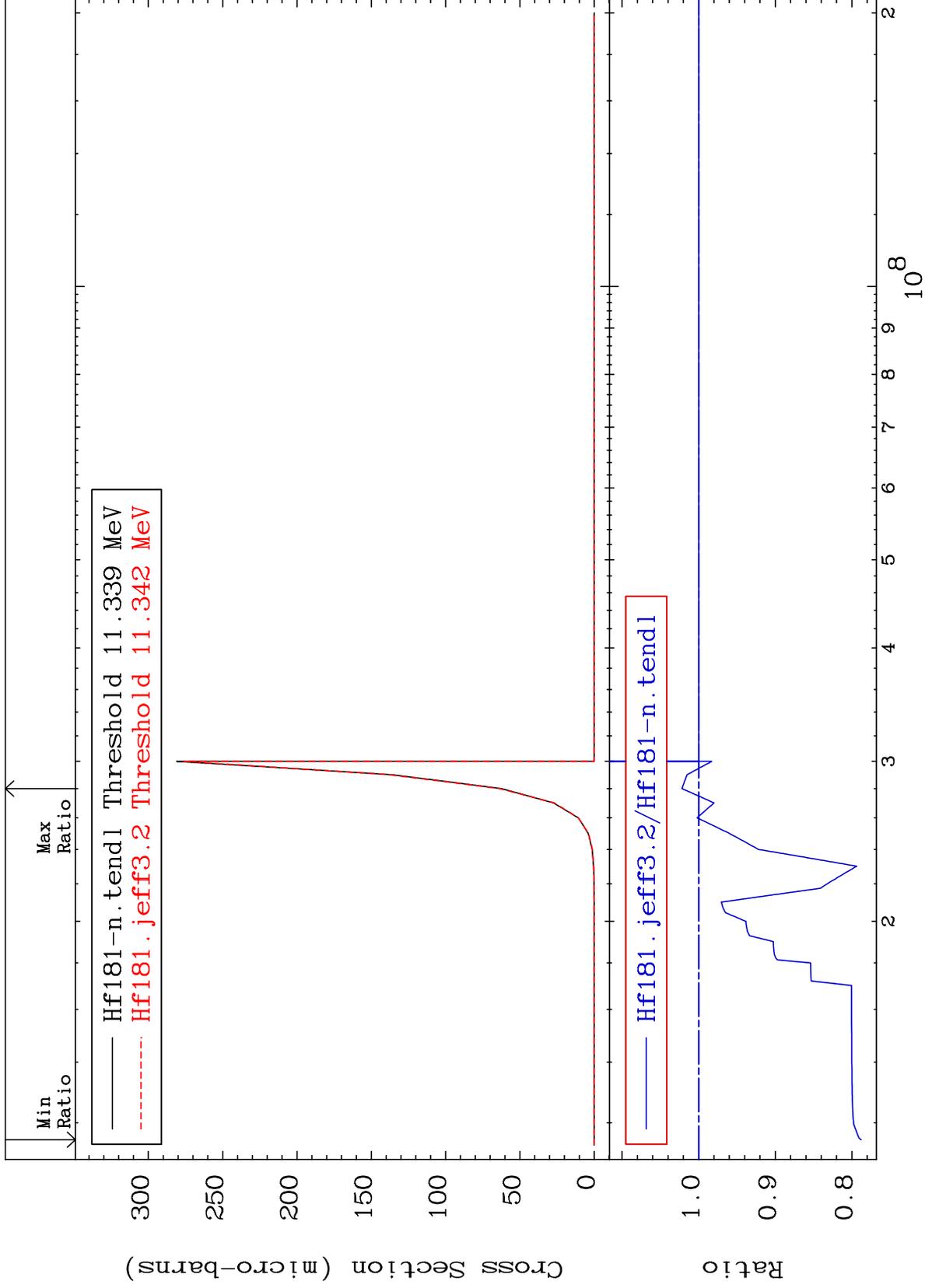
(n,2n) α

⁷²Hf-181

Cross Section

-10.41 To 0.000 %

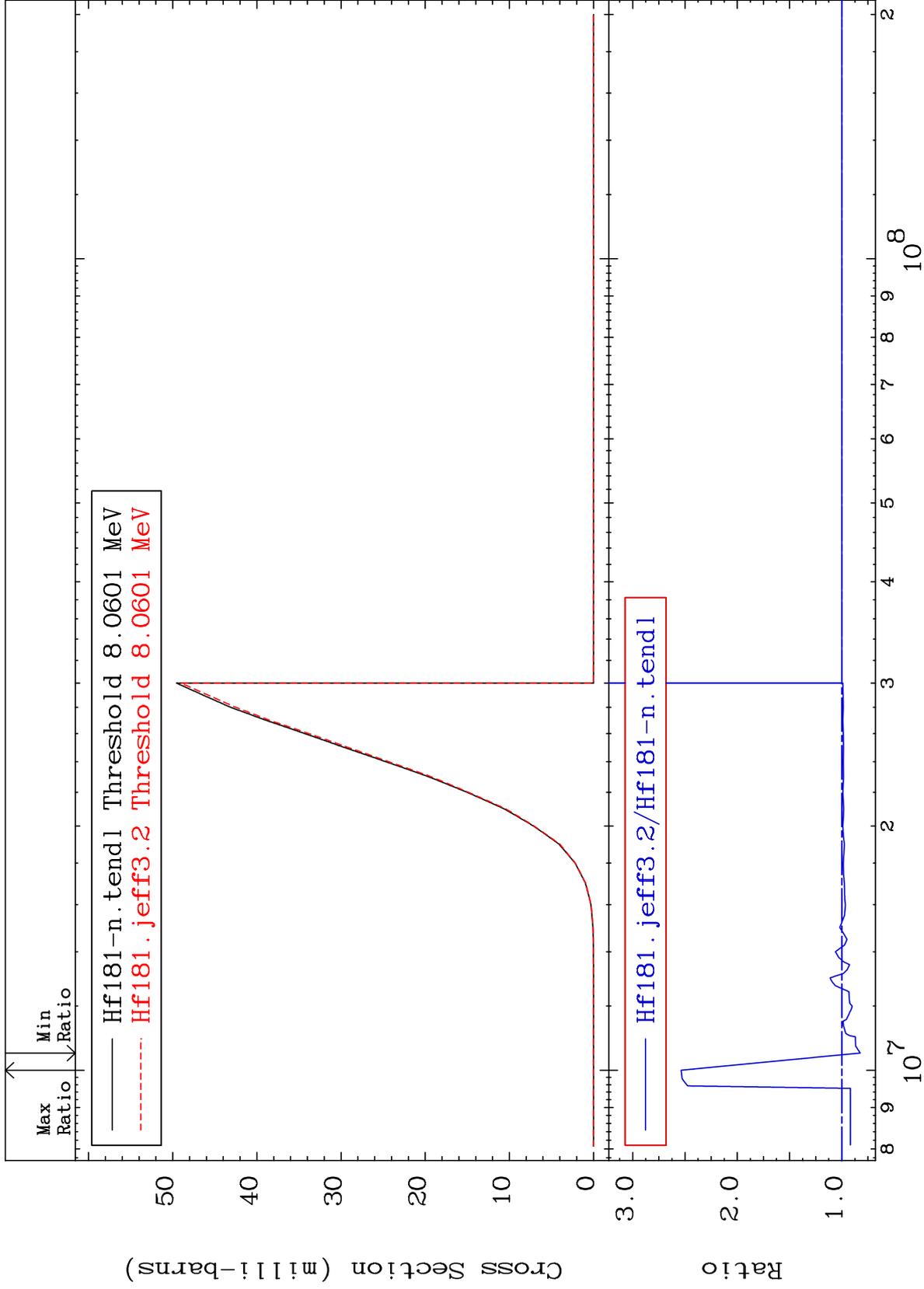




MAT 7246

(n,n') p
Cross Section

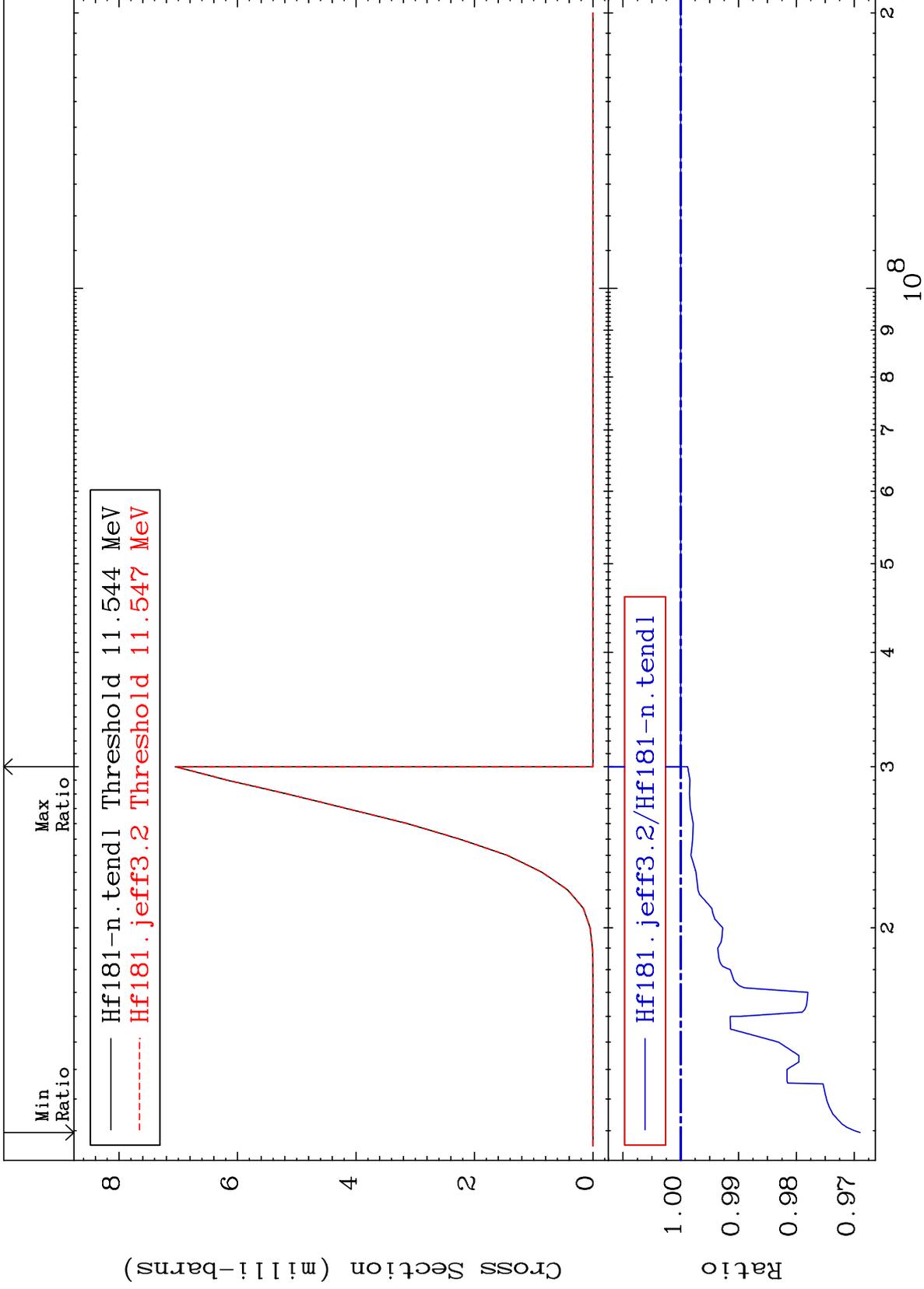
⁷²Hf-181
-17.55 To 153.7 %



⁷²Hf-181

Incident Energy (eV)

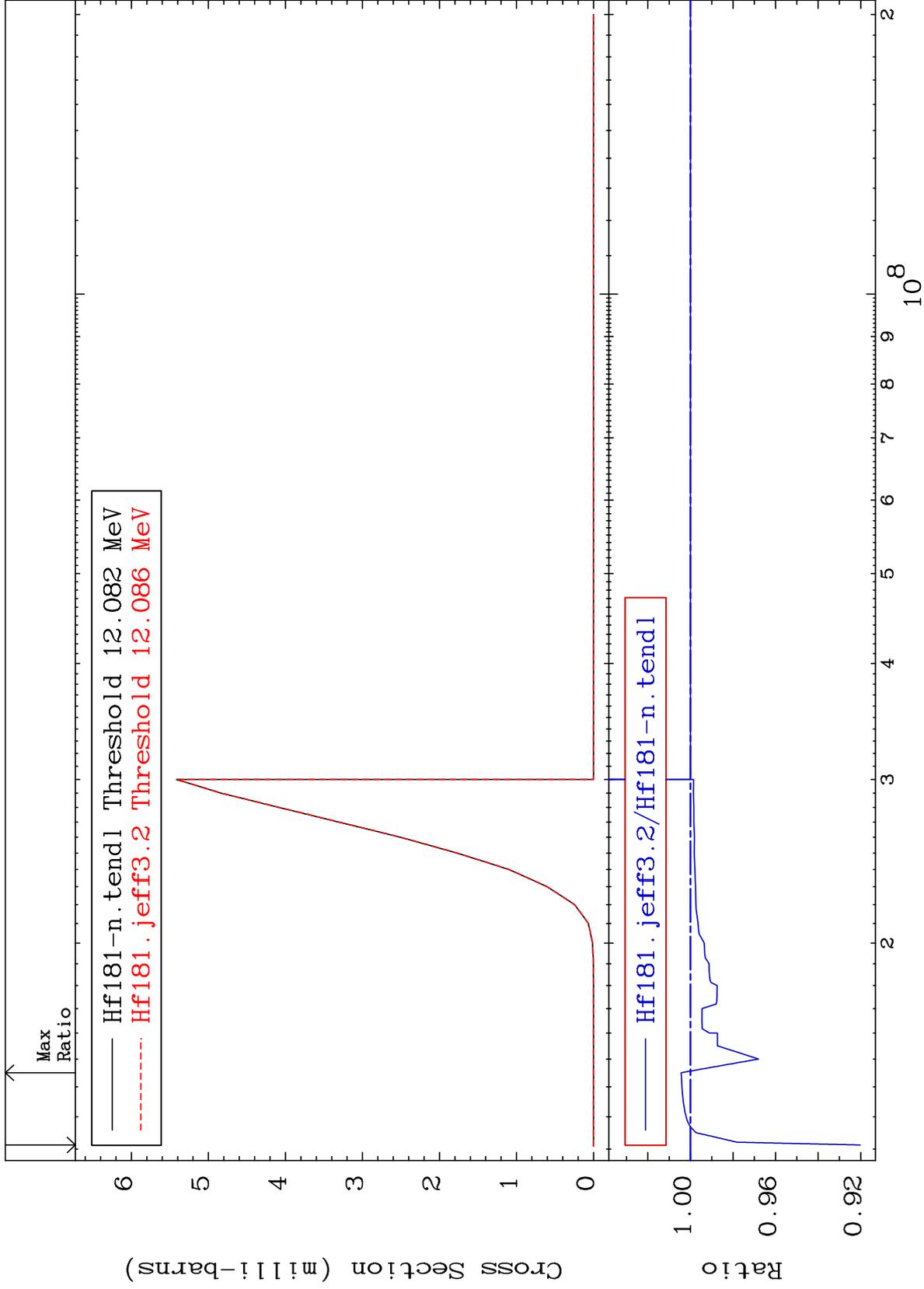
10

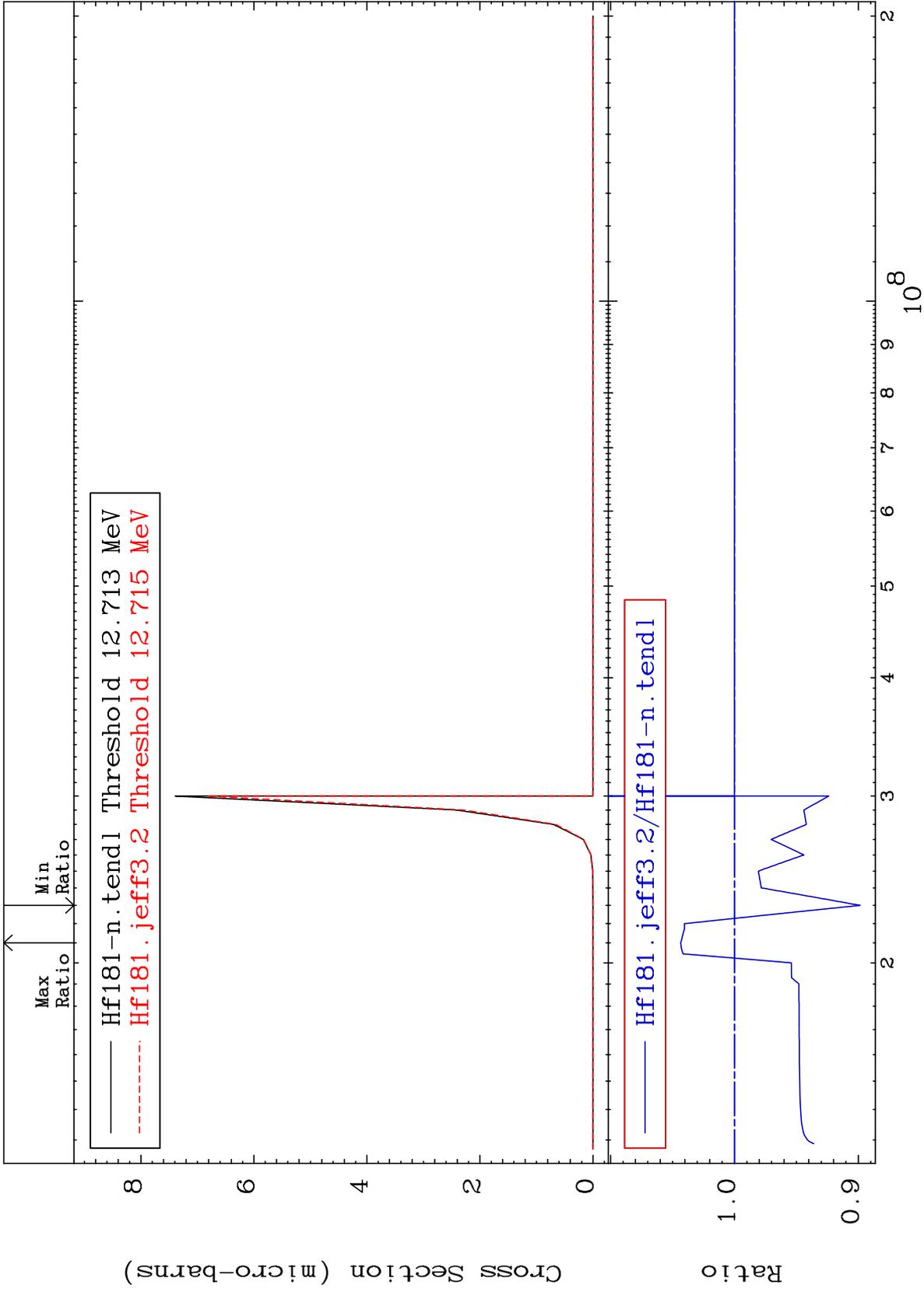


MAT 7246

(n,n') t
Cross Section

72-Hf-181
-7.976 To 0.435 %

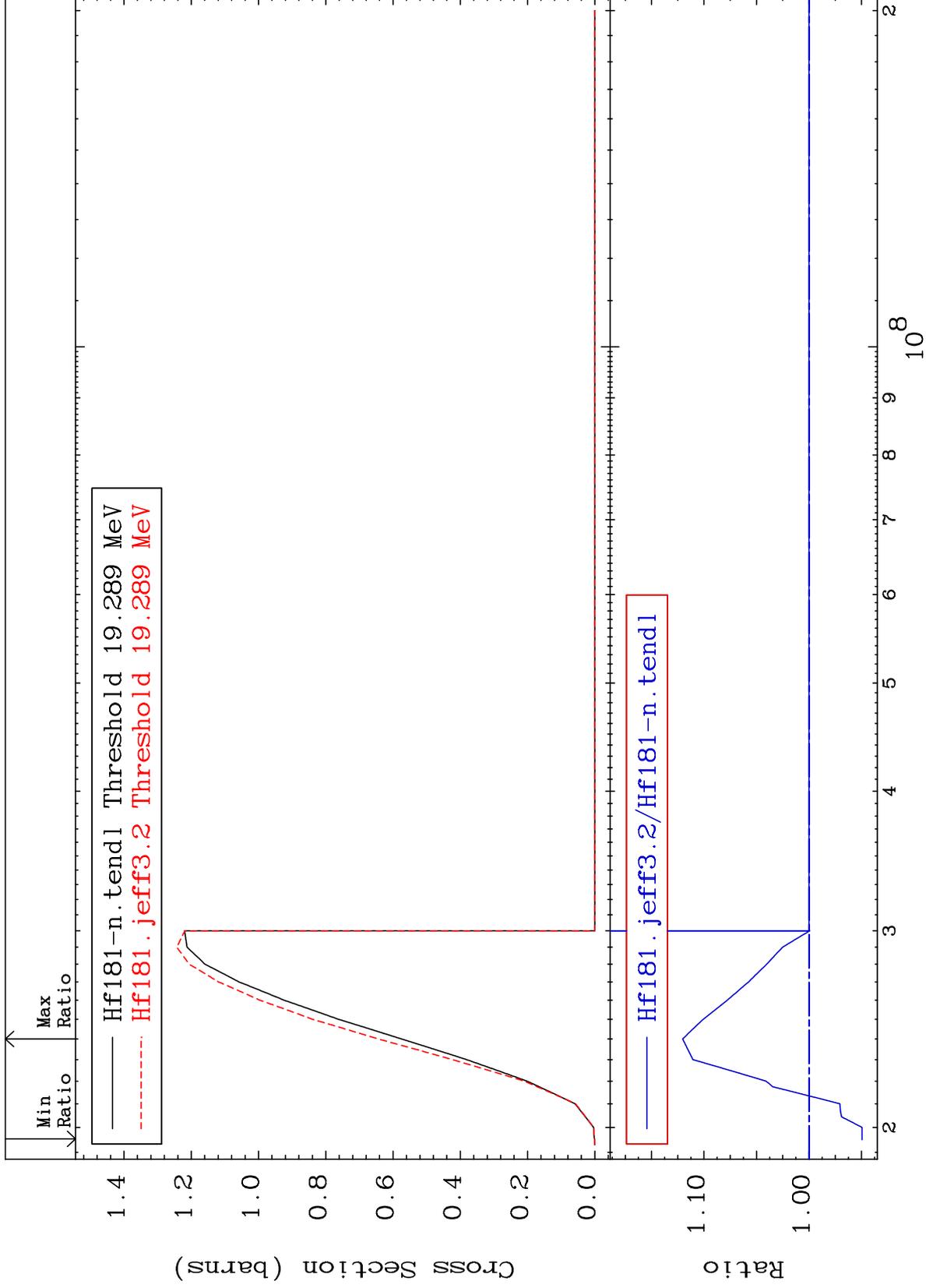


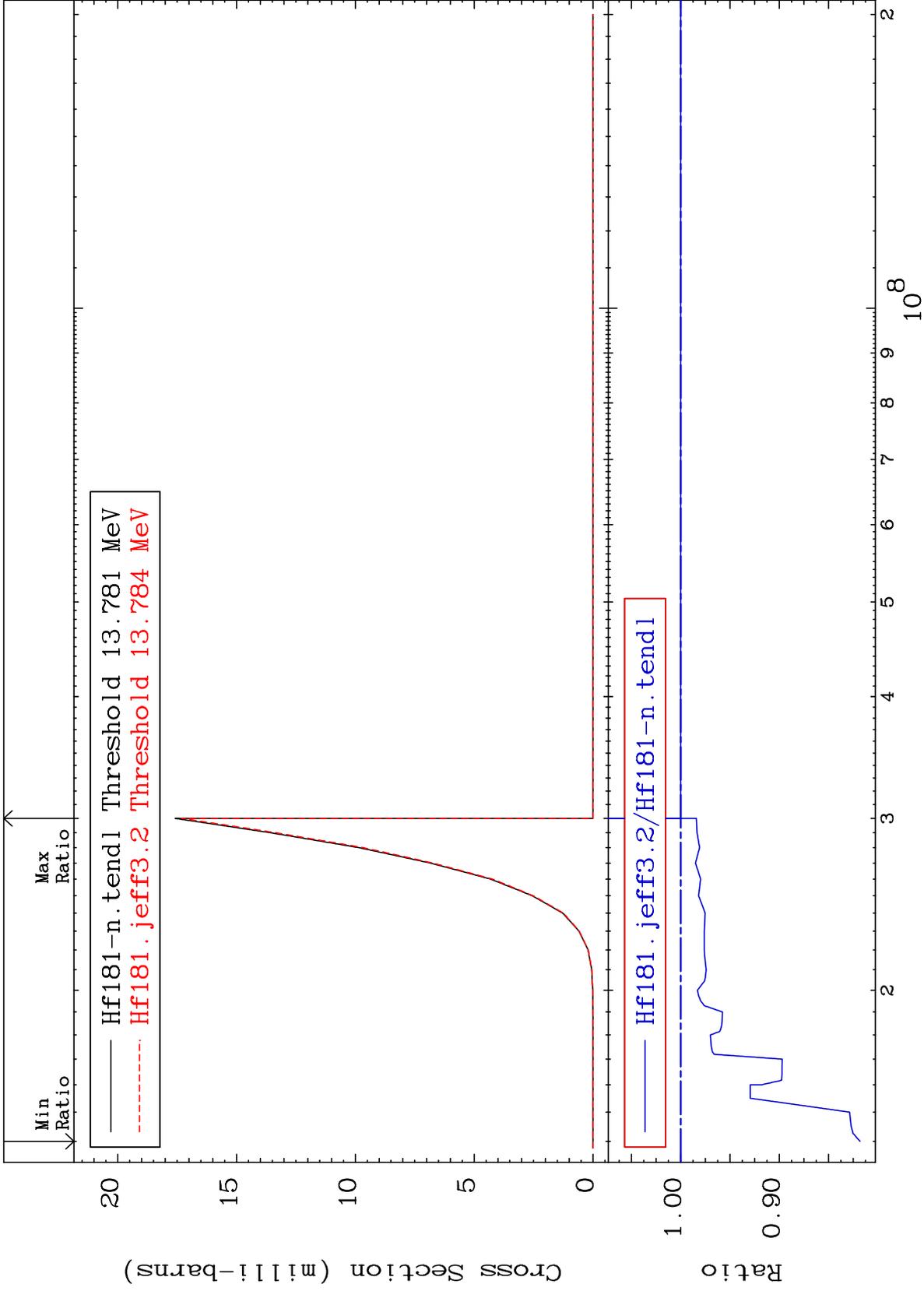


MAT 7246

(n,4n)
Cross Section

⁷²Hf-181
-5.054 To 12.04 %

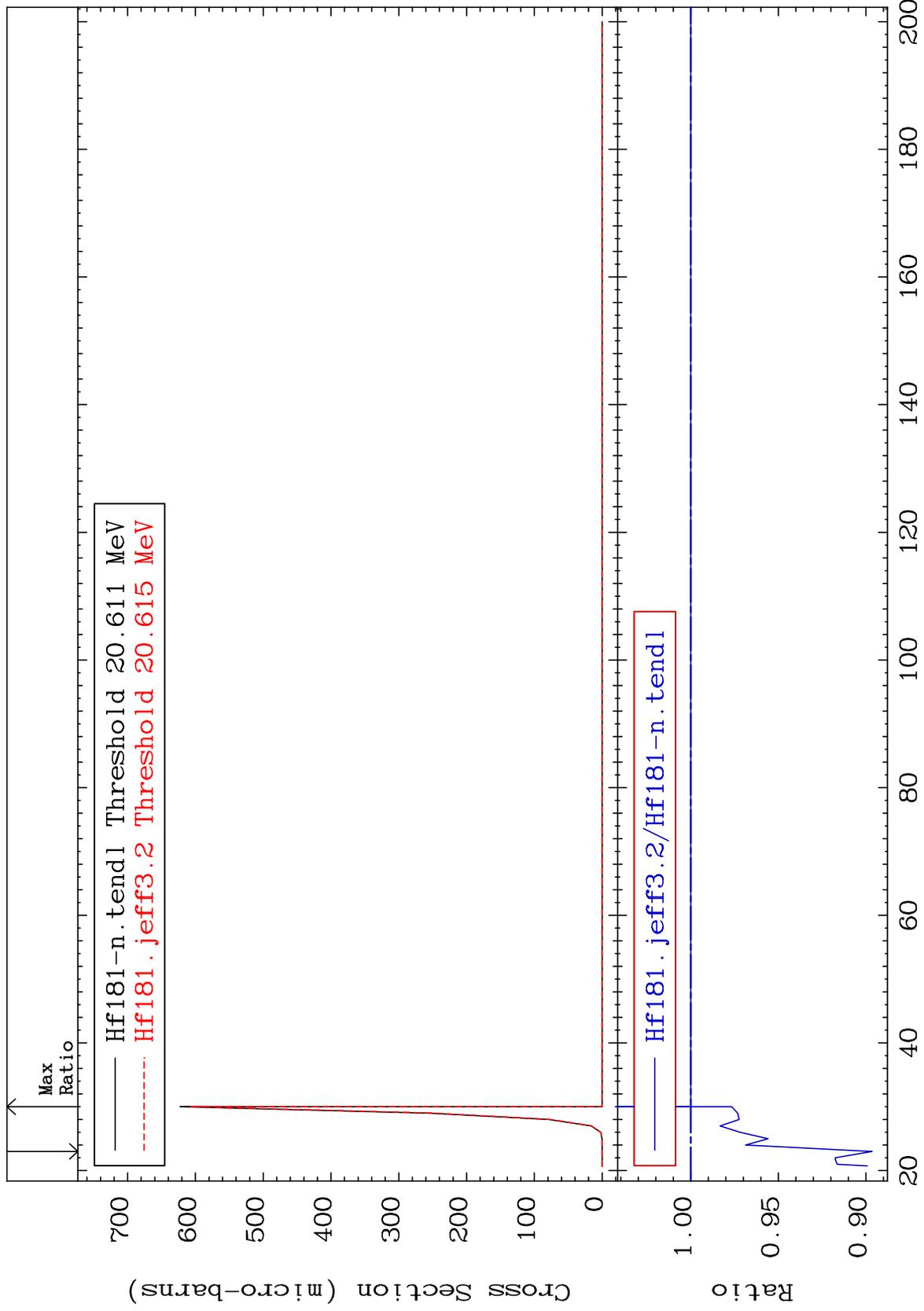




MAT 7246

(n,3n) p
Cross Section

⁷²Hf-181
-10.35 To 0.000 %



16

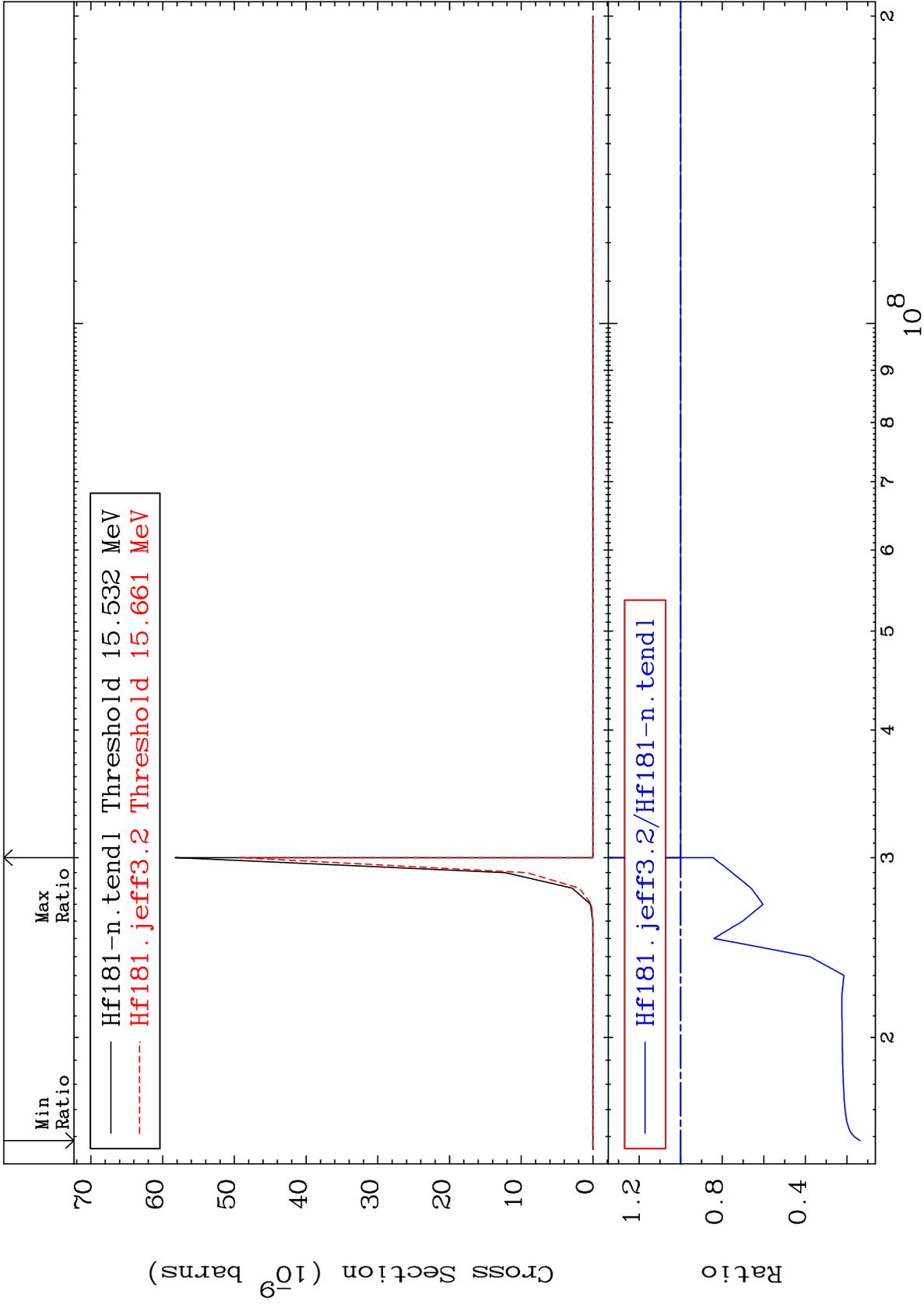
Incident Energy (MeV)

⁷²Hf-181

MAT 7246

(n,2n) p
Cross Section

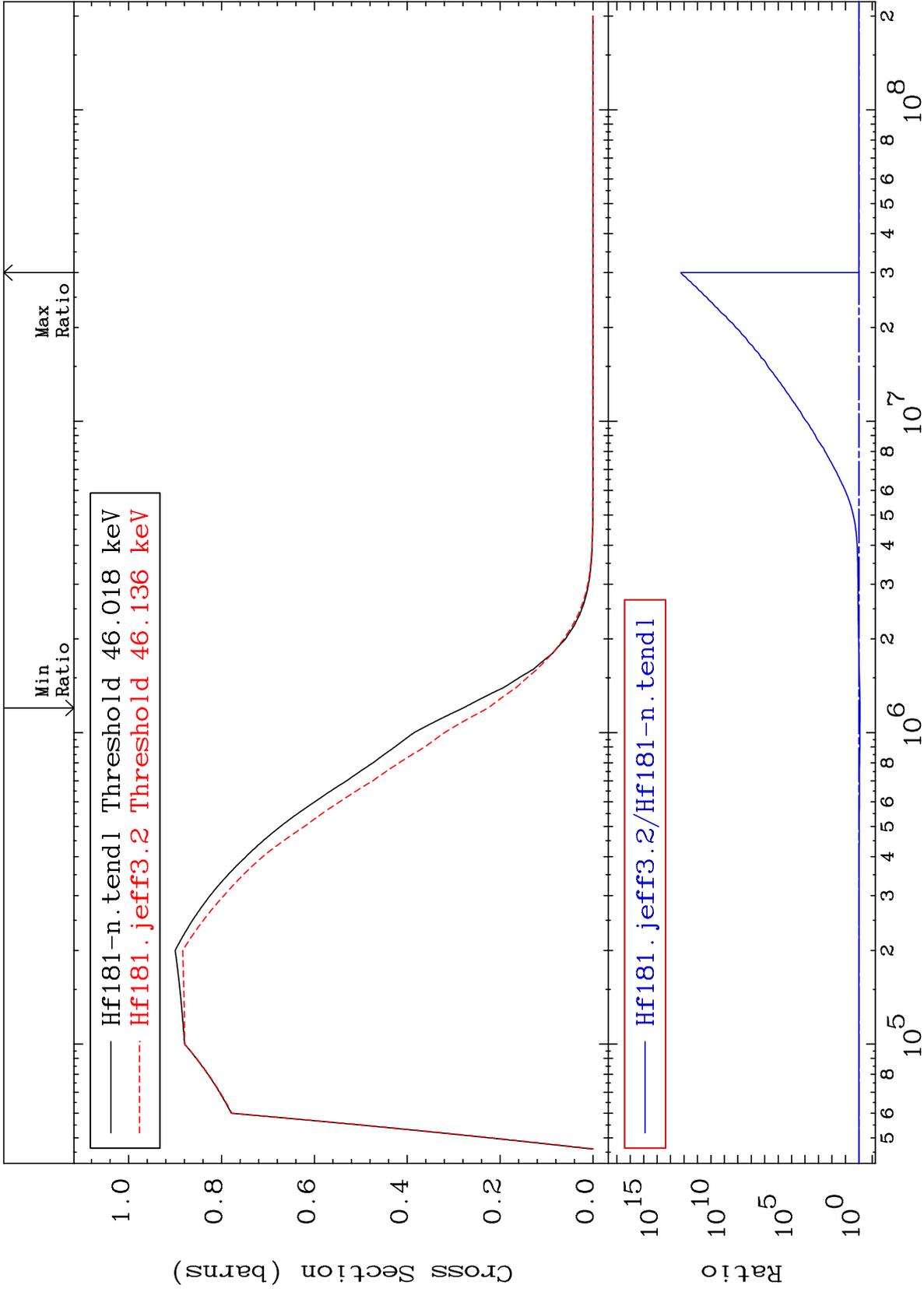
72-Hf-181
-86.31 To 0.000 %



MAT 7246

45.76 keV (n,n') Level
Cross Section

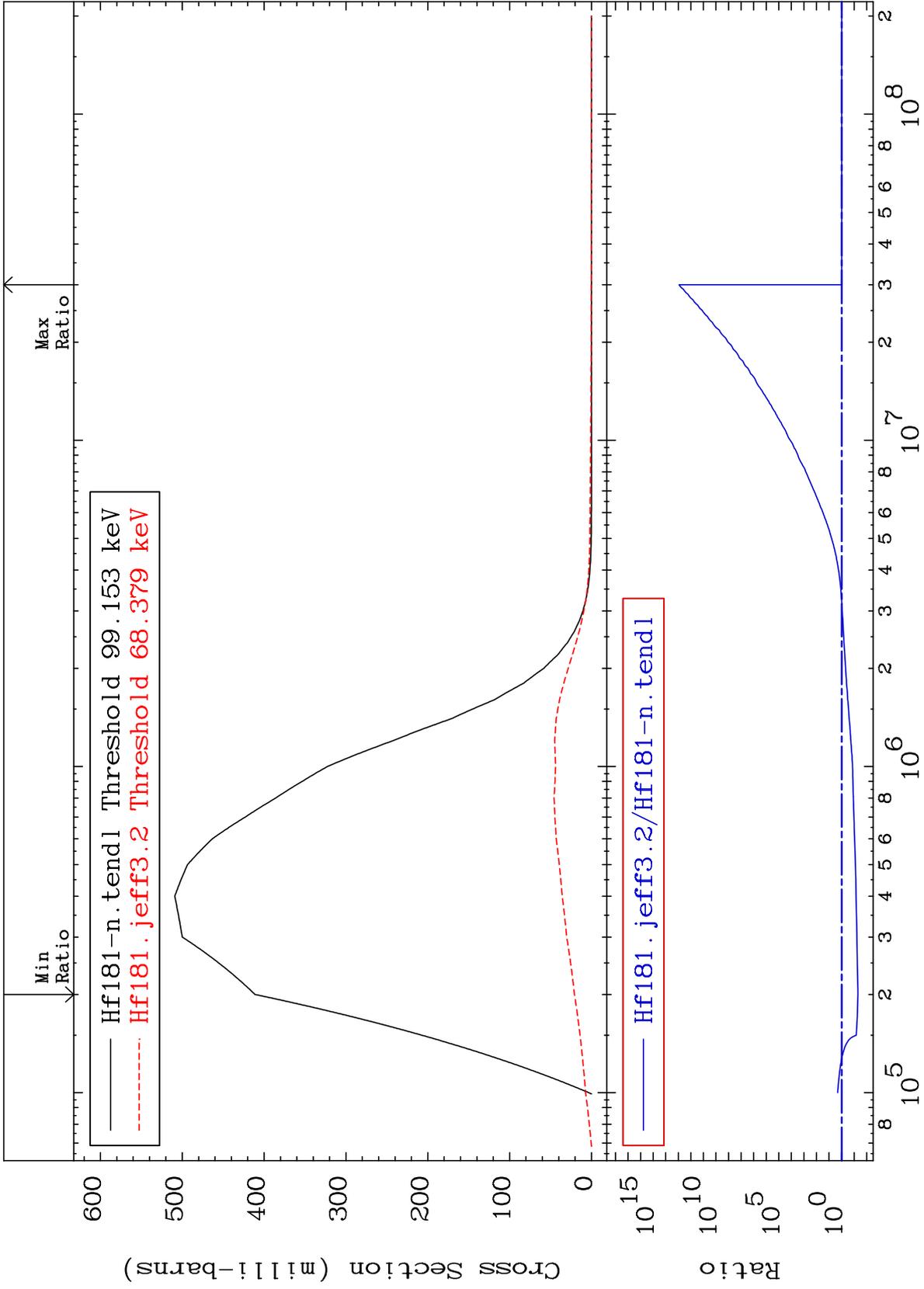
72-Hf-181
-19.19 To 9999. %



MAT 7246

98.60 keV (n,n') Level
Cross Section

⁷²Hf-¹⁸¹
-94.95 To 9999. %



19

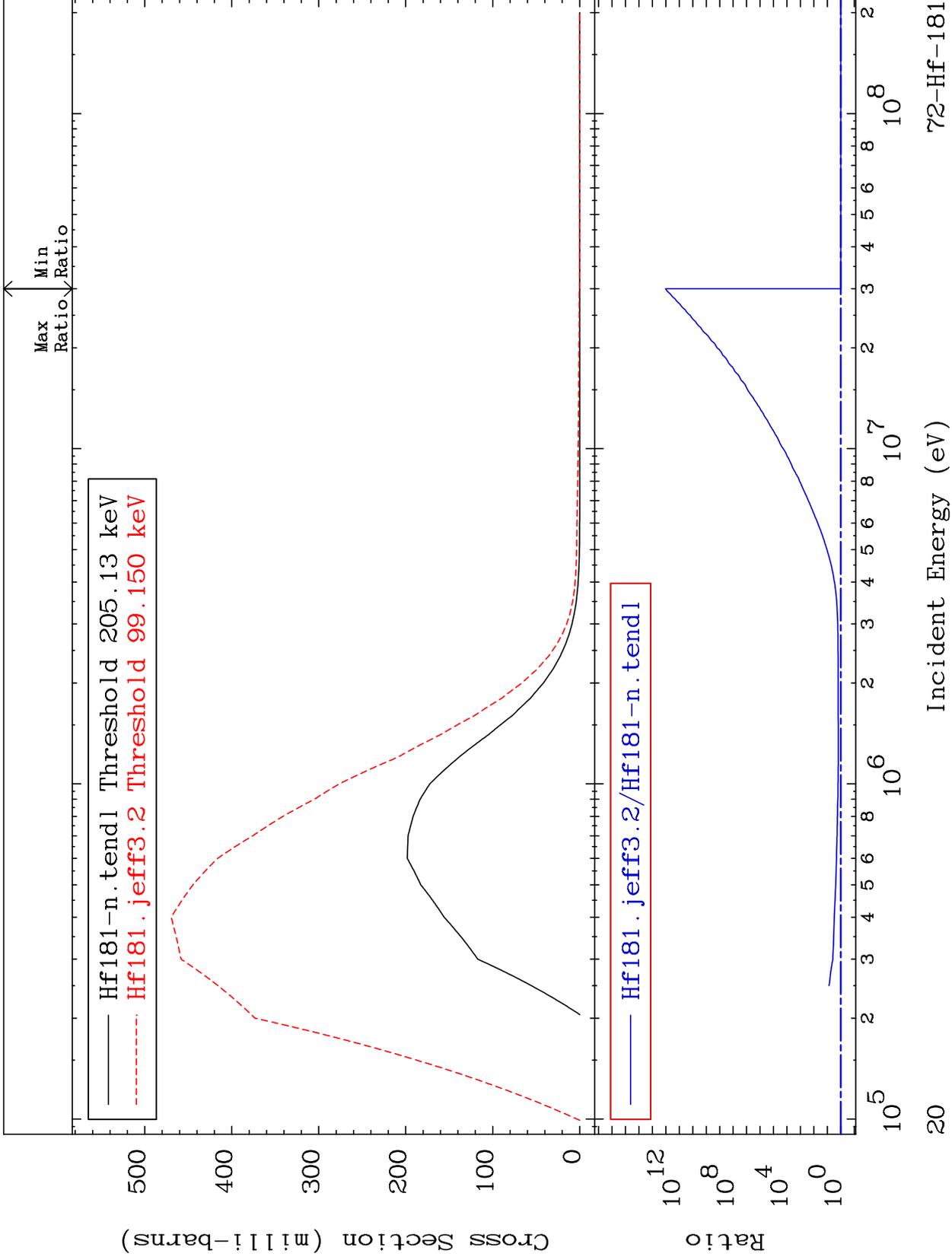
Incident Energy (eV)

⁷²Hf-¹⁸¹

MAT 7246

204.0 keV (n,n') Level
Cross Section

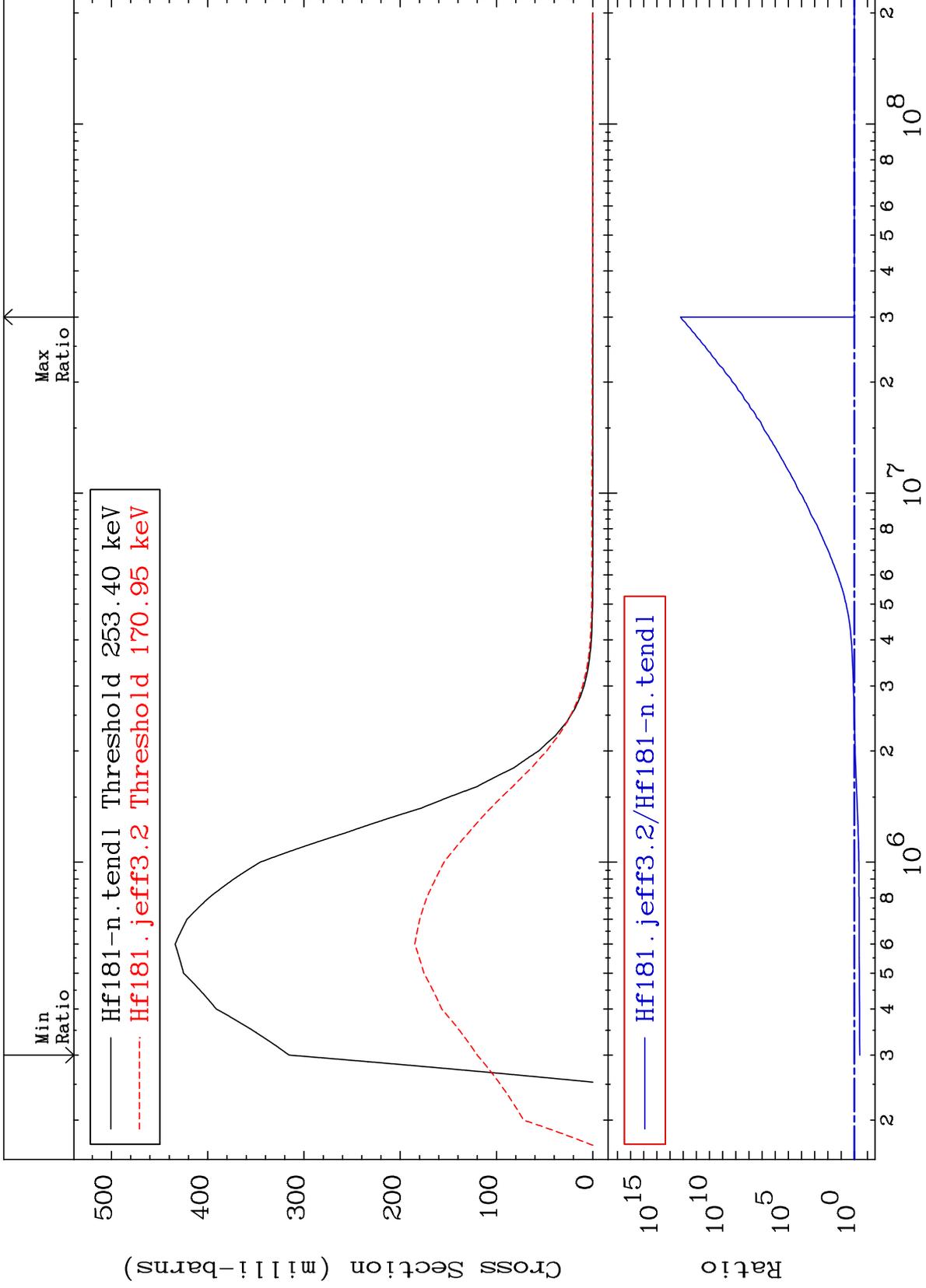
72-Hf-181
To 9999. %



MAT 7246

252.0 keV (n,n') Level
Cross Section

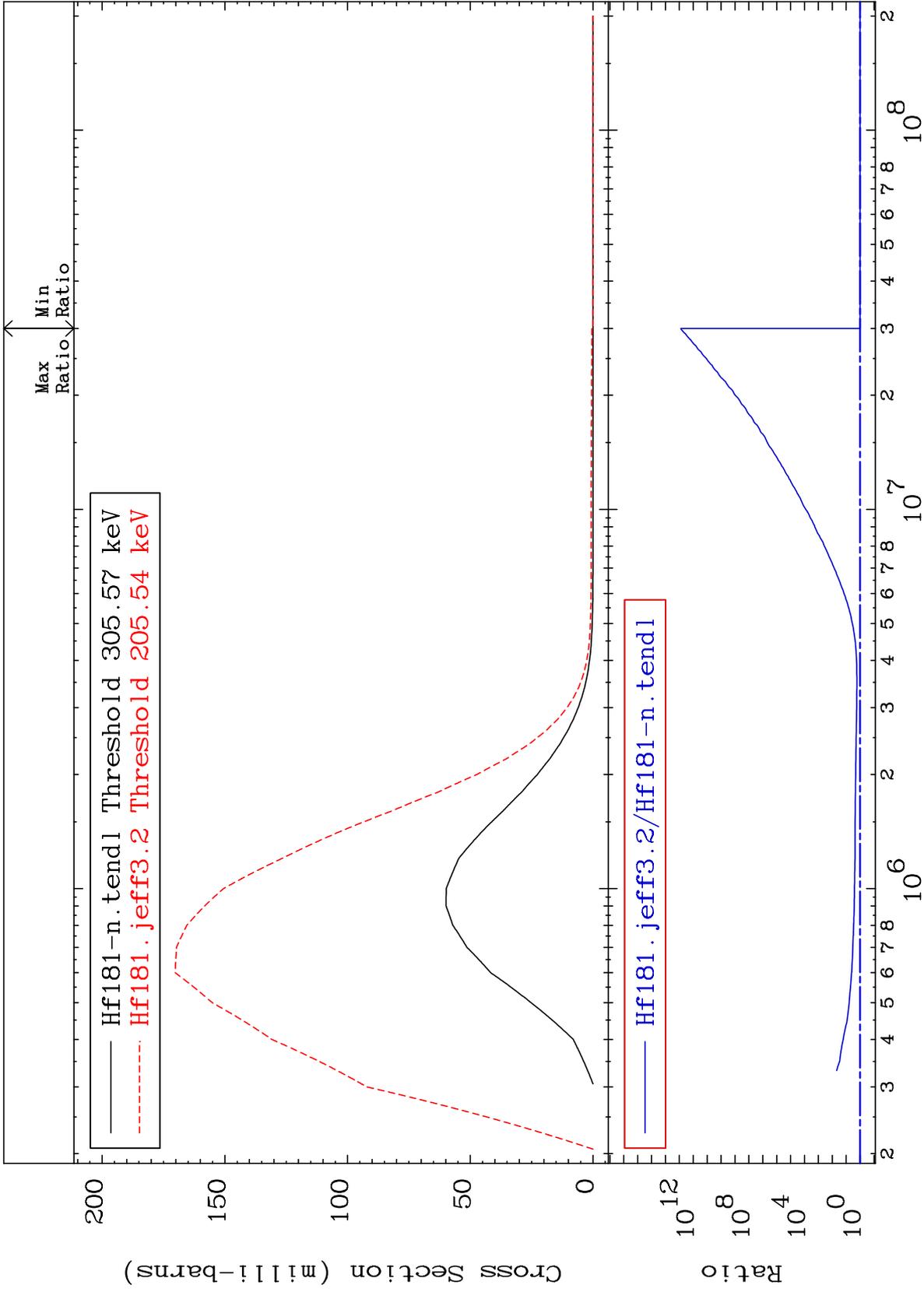
72-Hf-181
-61.93 To 9999. %



MAT 7246

303.9 keV (n,n') Level
Cross Section

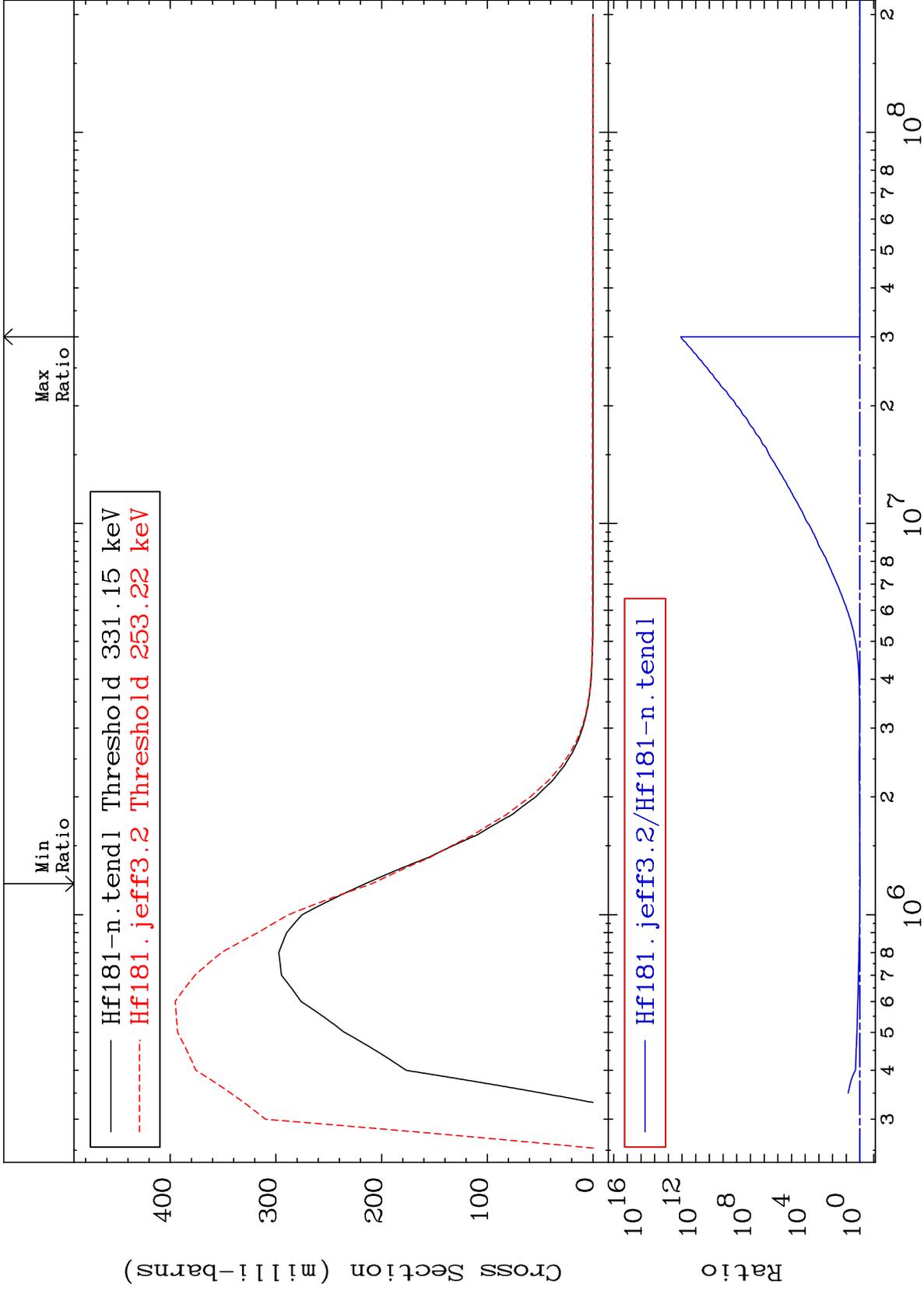
72-Hf-181
To 9999. %



MAT 7246

329.3 keV (n,n') Level
Cross Section

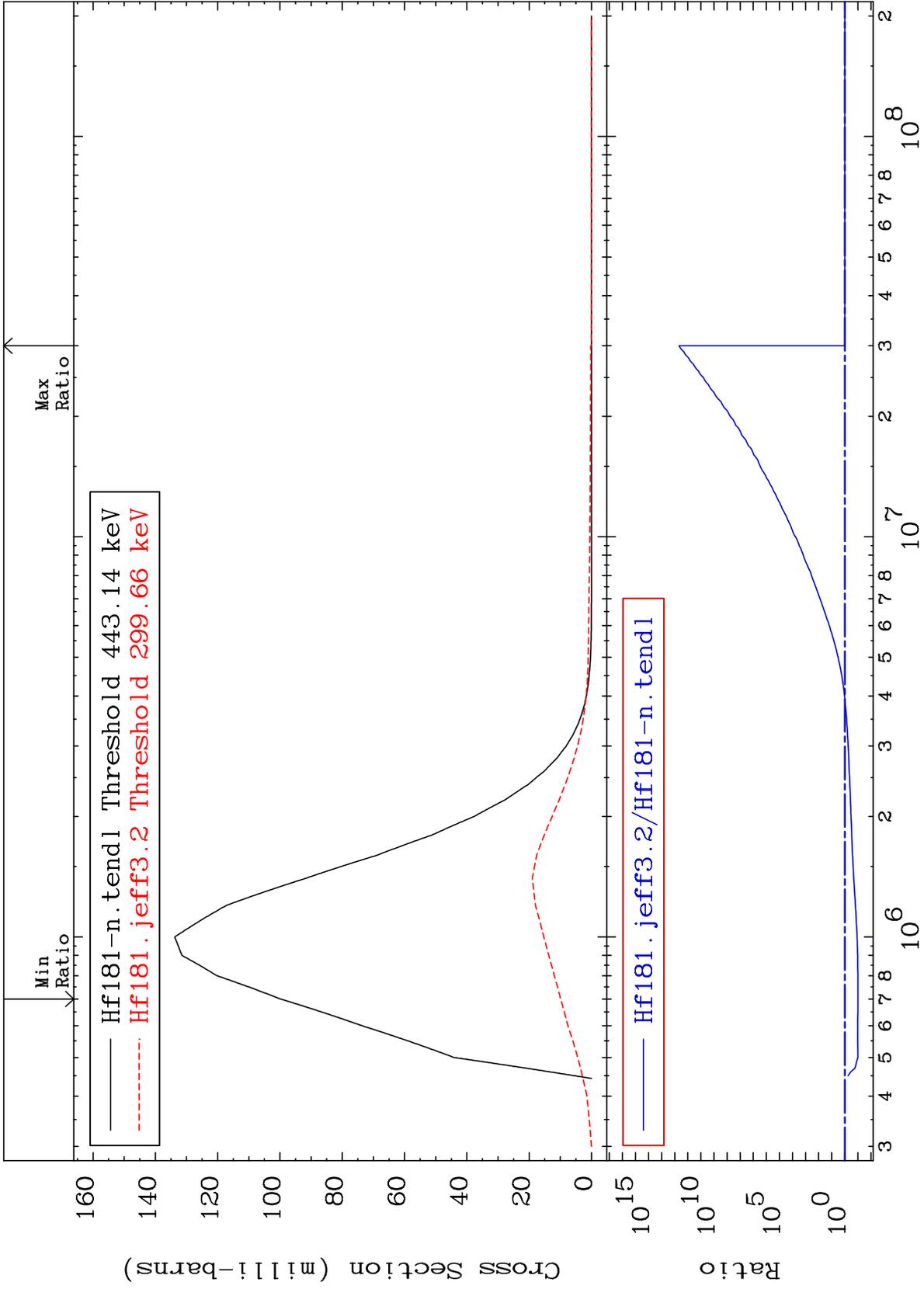
72-Hf-181
-2.857 To 9999. %



MAT 7246

440.7 keV (n,n') Level
Cross Section

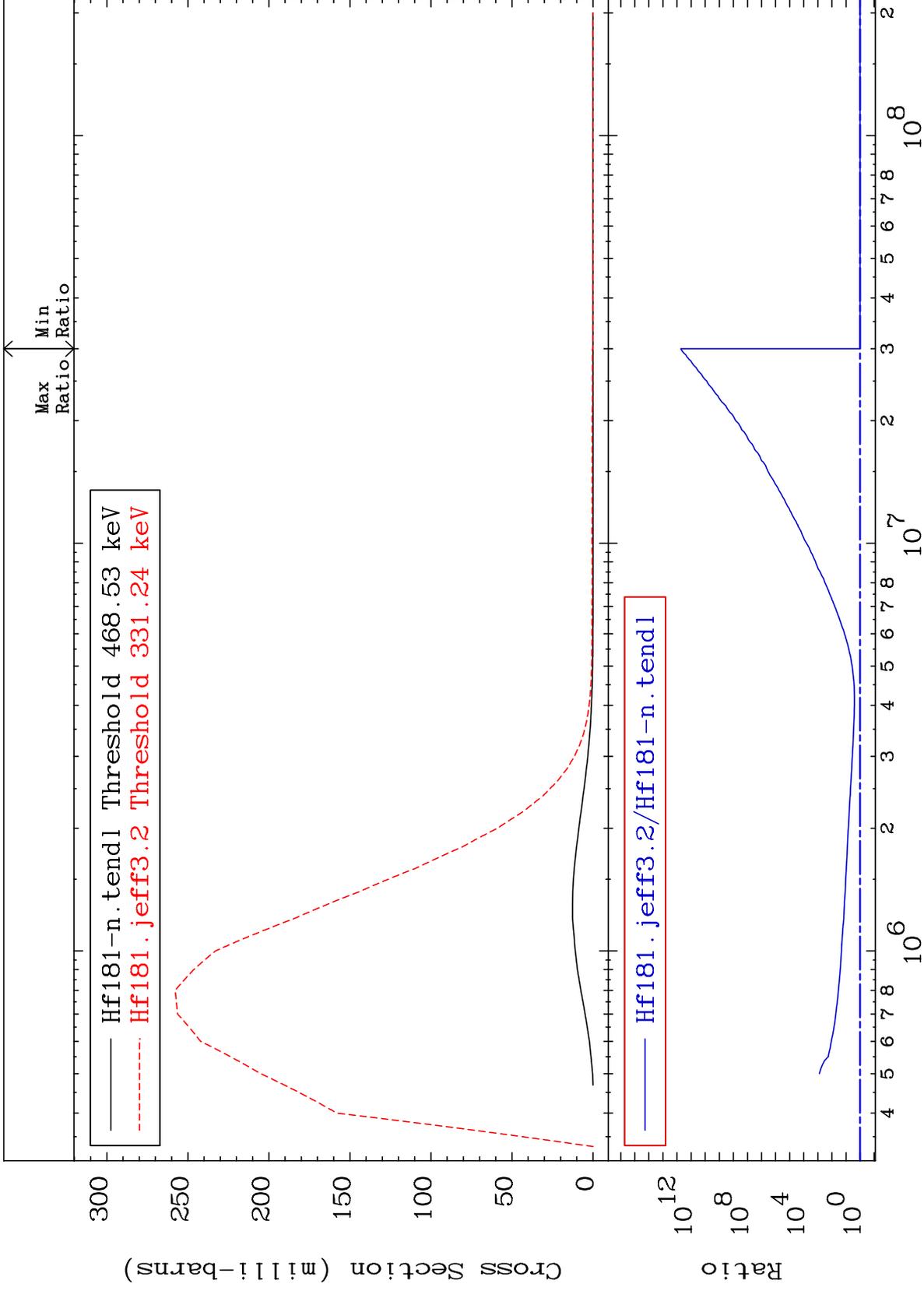
72-Hf-181
-90.09 To 9999. %



MAT 7246

465.9 keV (n,n') Level
Cross Section

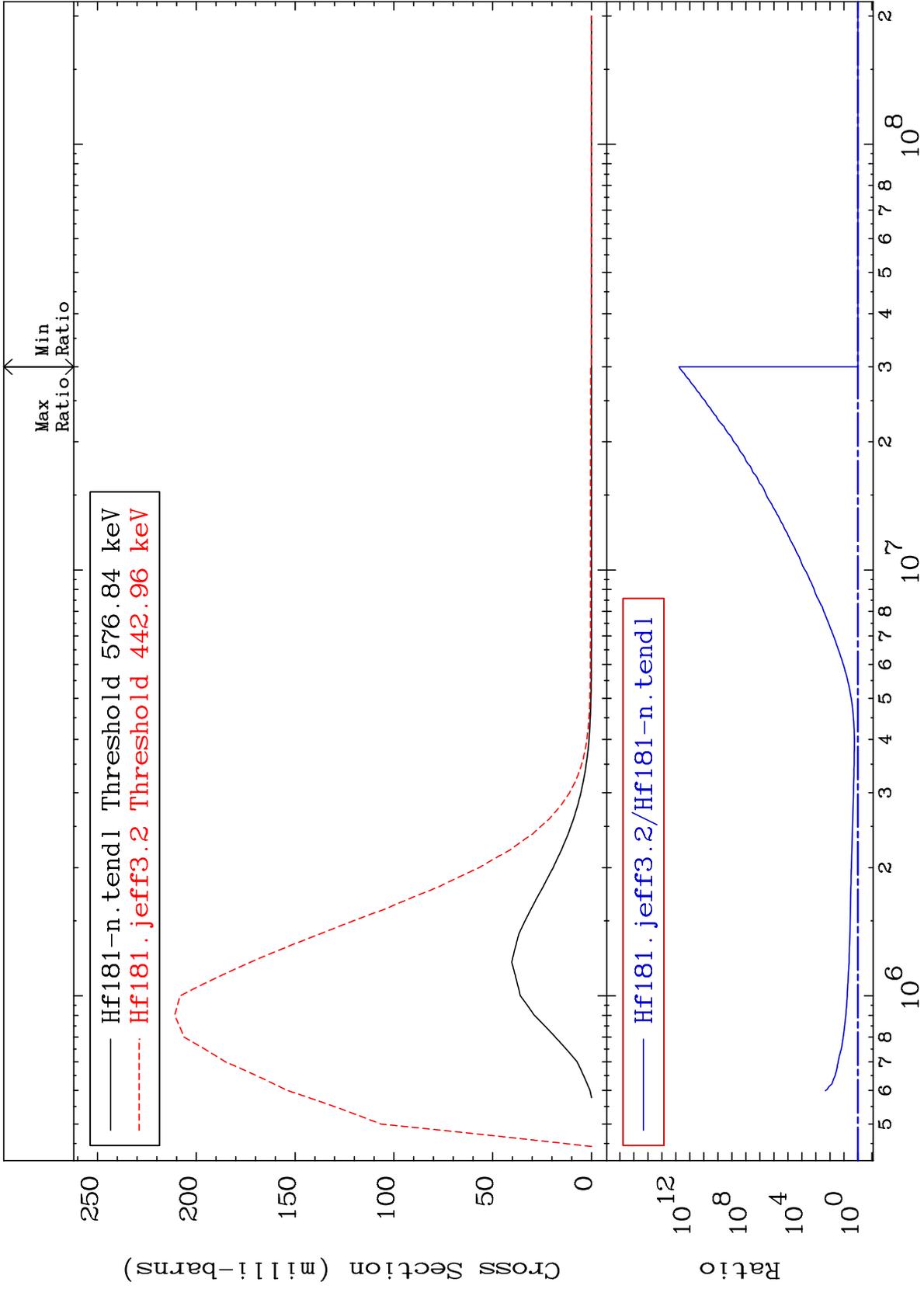
72-Hf-181
To 9999. %
0.000



MAT 7246

573.6 keV (n,n') Level
Cross Section

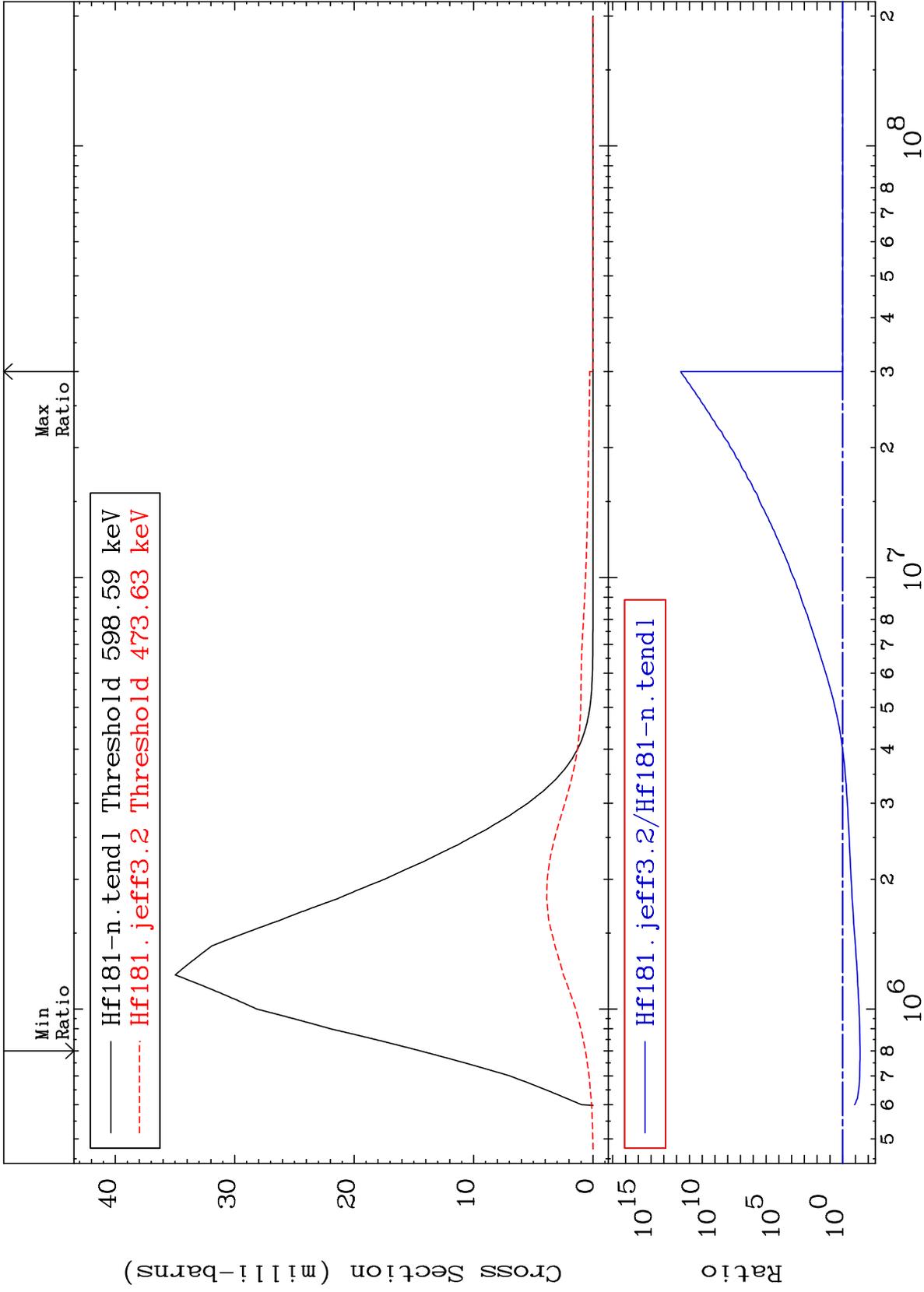
72-Hf-181
To 9999. %
0.000



MAT 7246

595.3 keV (n,n') Level
Cross Section

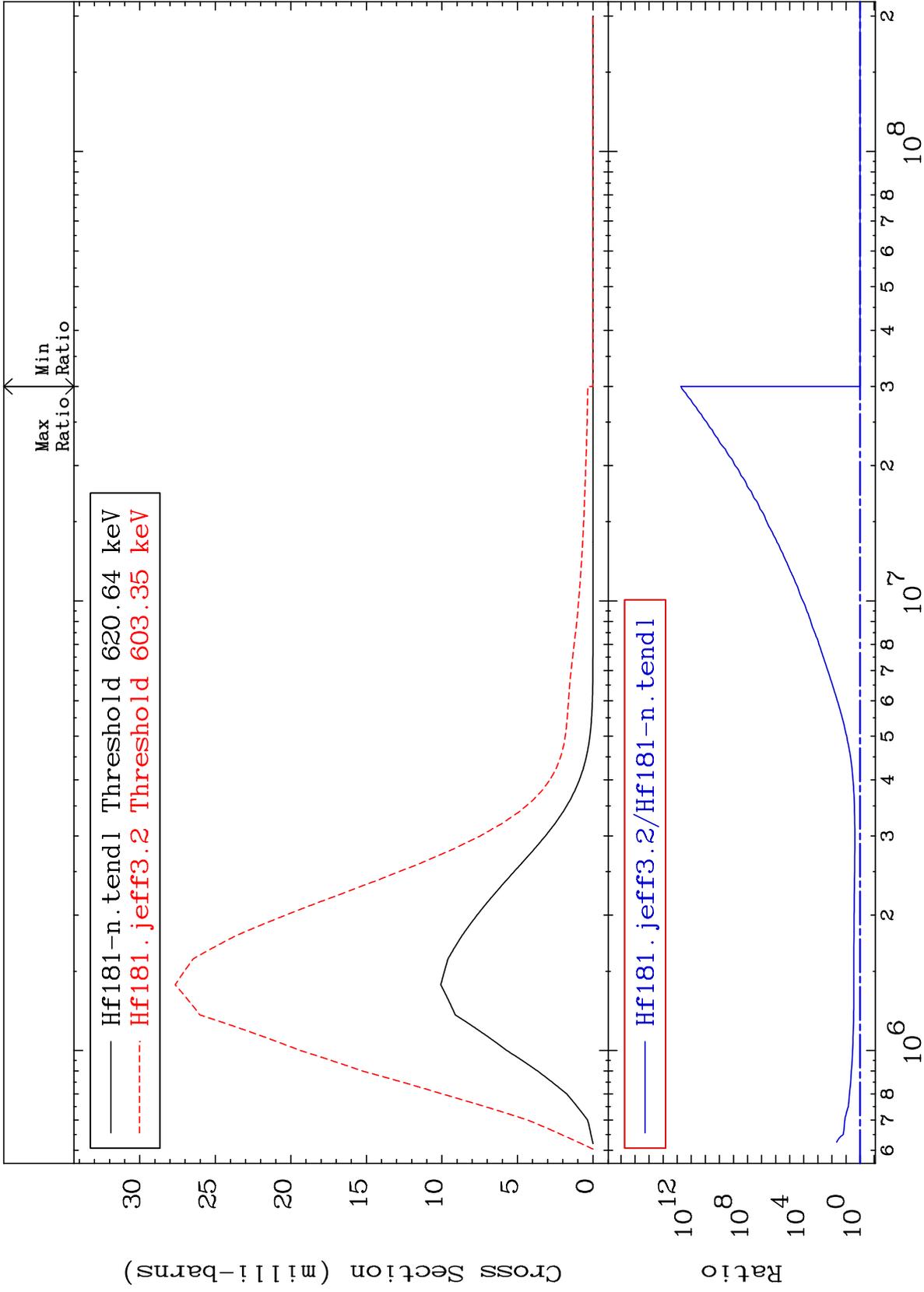
72-Hf-181
-95.65 To 9999. %



MAT 7246

617.2 keV (n,n') Level
Cross Section

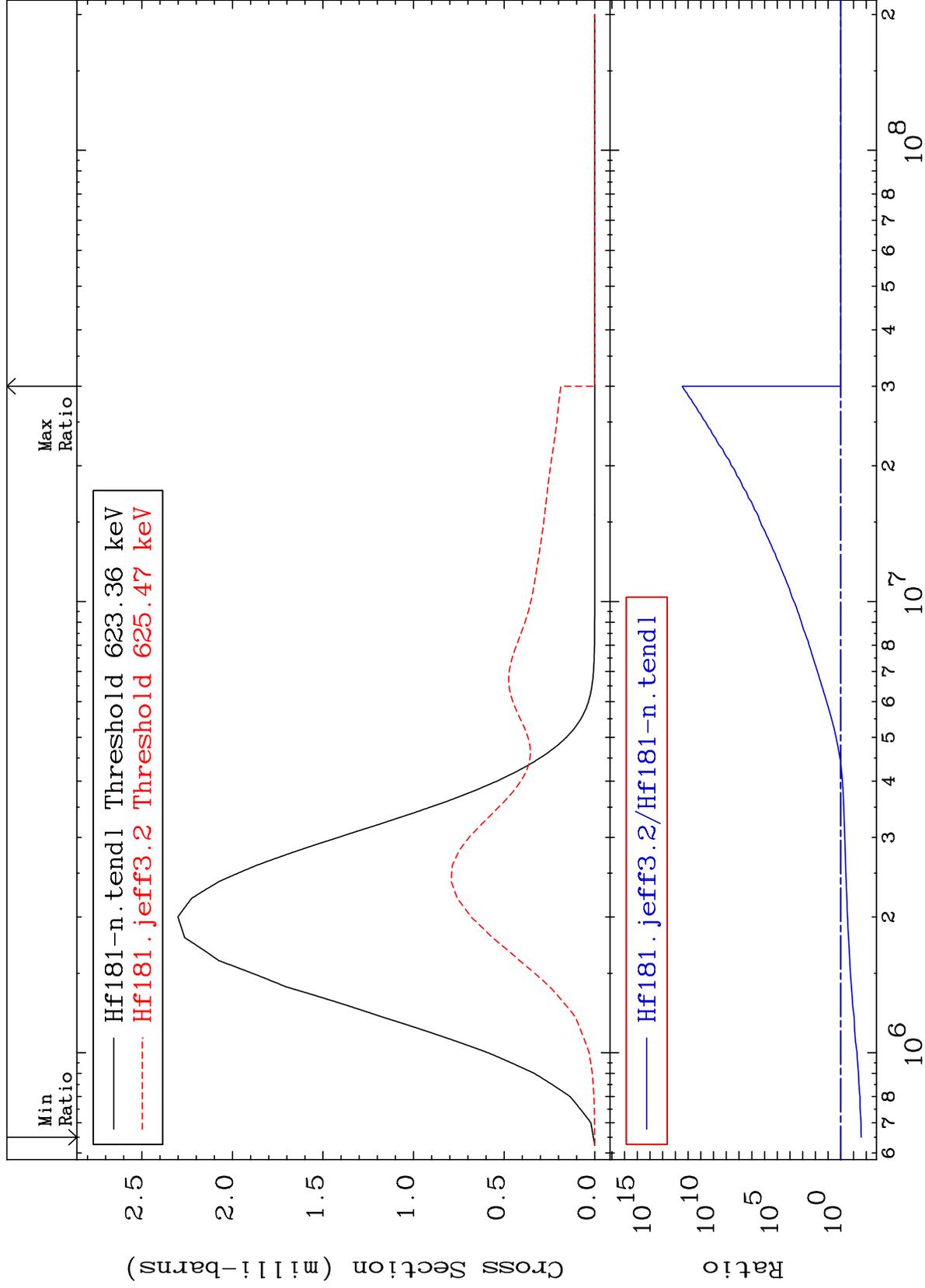
72-Hf-181
0.000 To 9999. %



MAT 7246

619.9 keV (n,n') Level
Cross Section

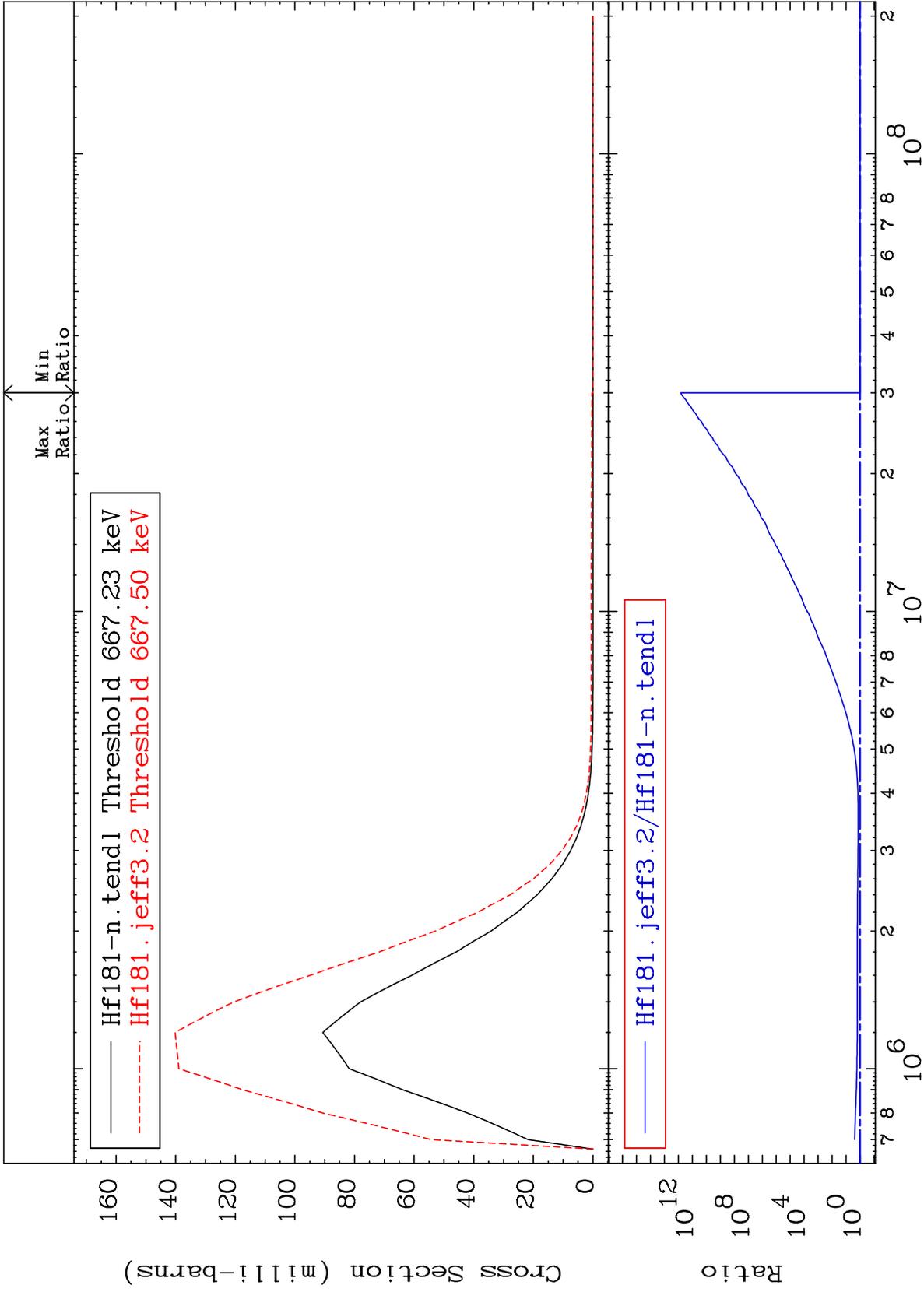
72-Hf-181
-97.51 To 9999. %



MAT 7246

663.5 keV (n,n') Level
Cross Section

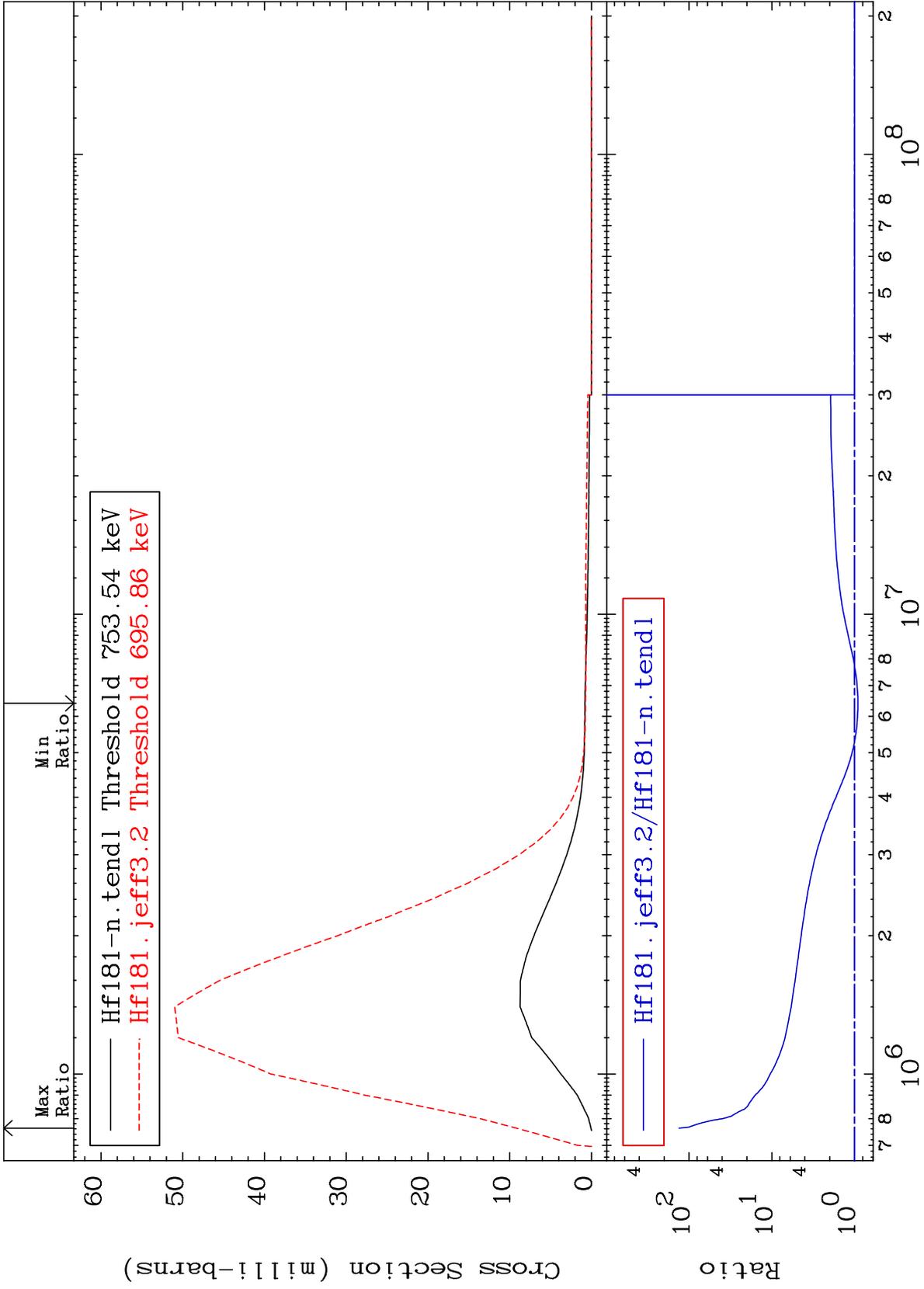
72-Hf-181
0.000 To 9999. %



MAT 7246

749.4 keV (n,n') Level
Cross Section

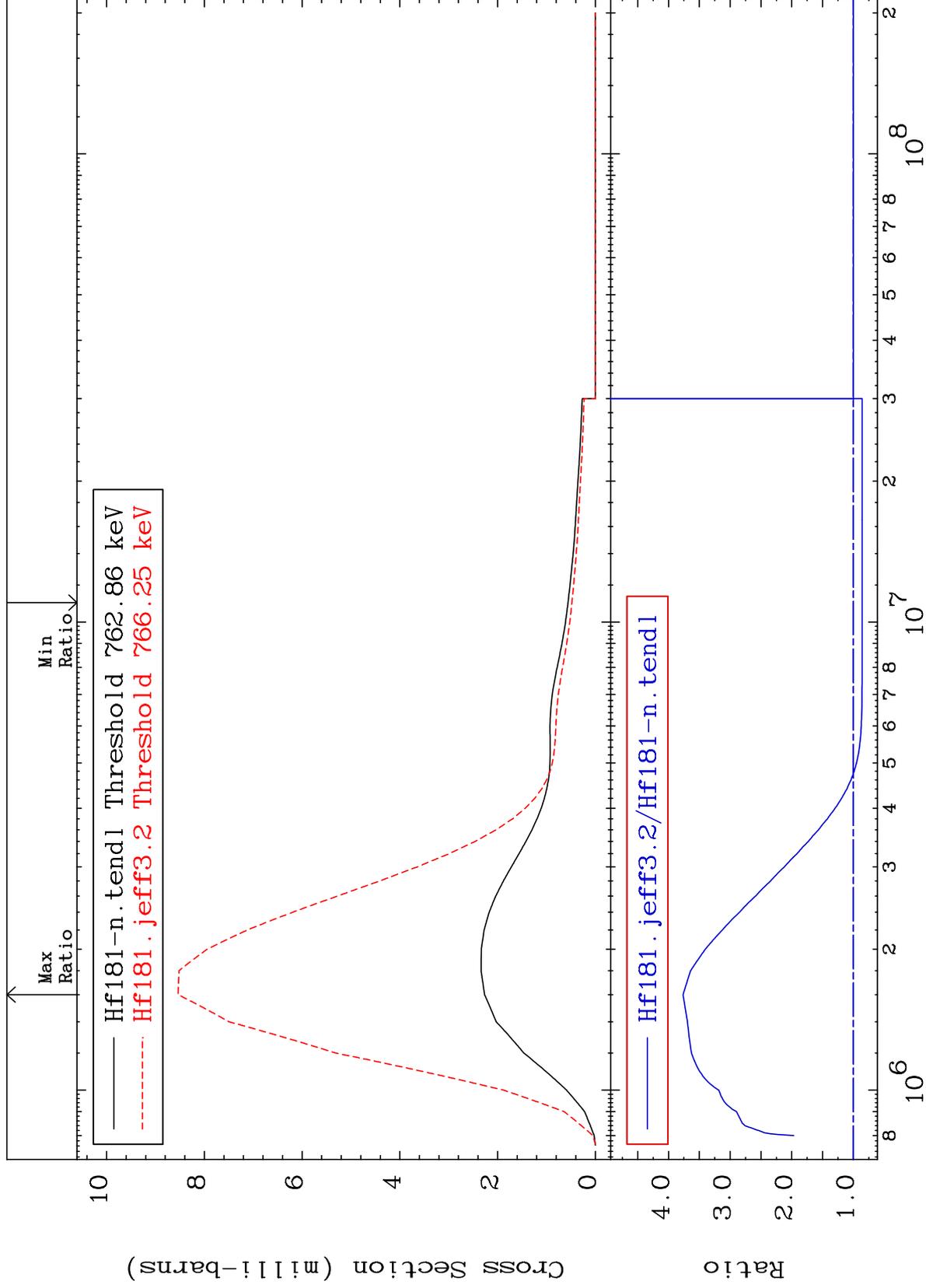
72-Hf-181
-8.752 To 9999. %



MAT 7246

758.6 keV (n,n') Level
Cross Section

72-Hf-181
-14.31 To 276.4 %



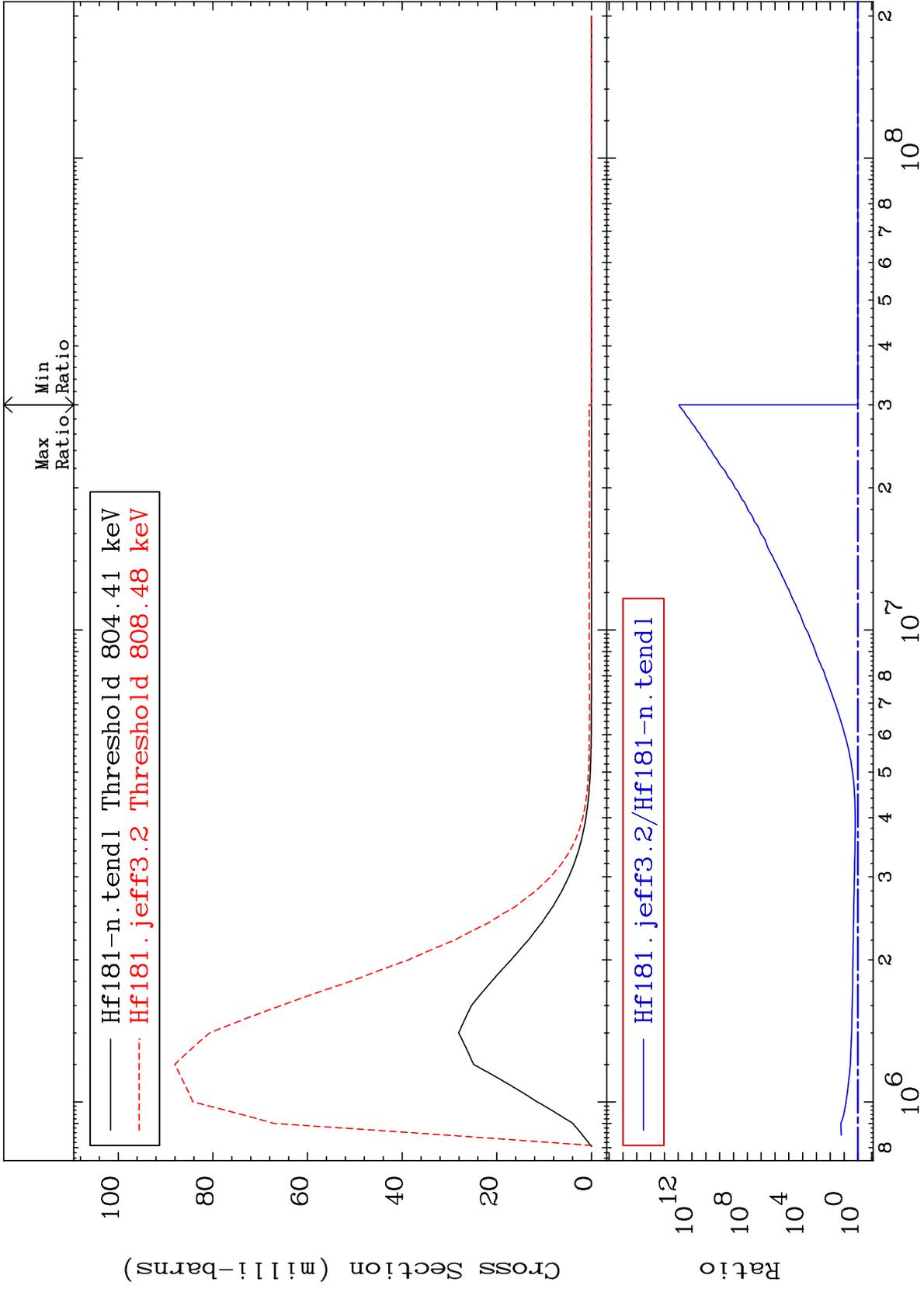
32

72-Hf-181

MAT 7246

799.9 keV (n,n') Level
Cross Section

72-Hf-181
To 9999. %



33

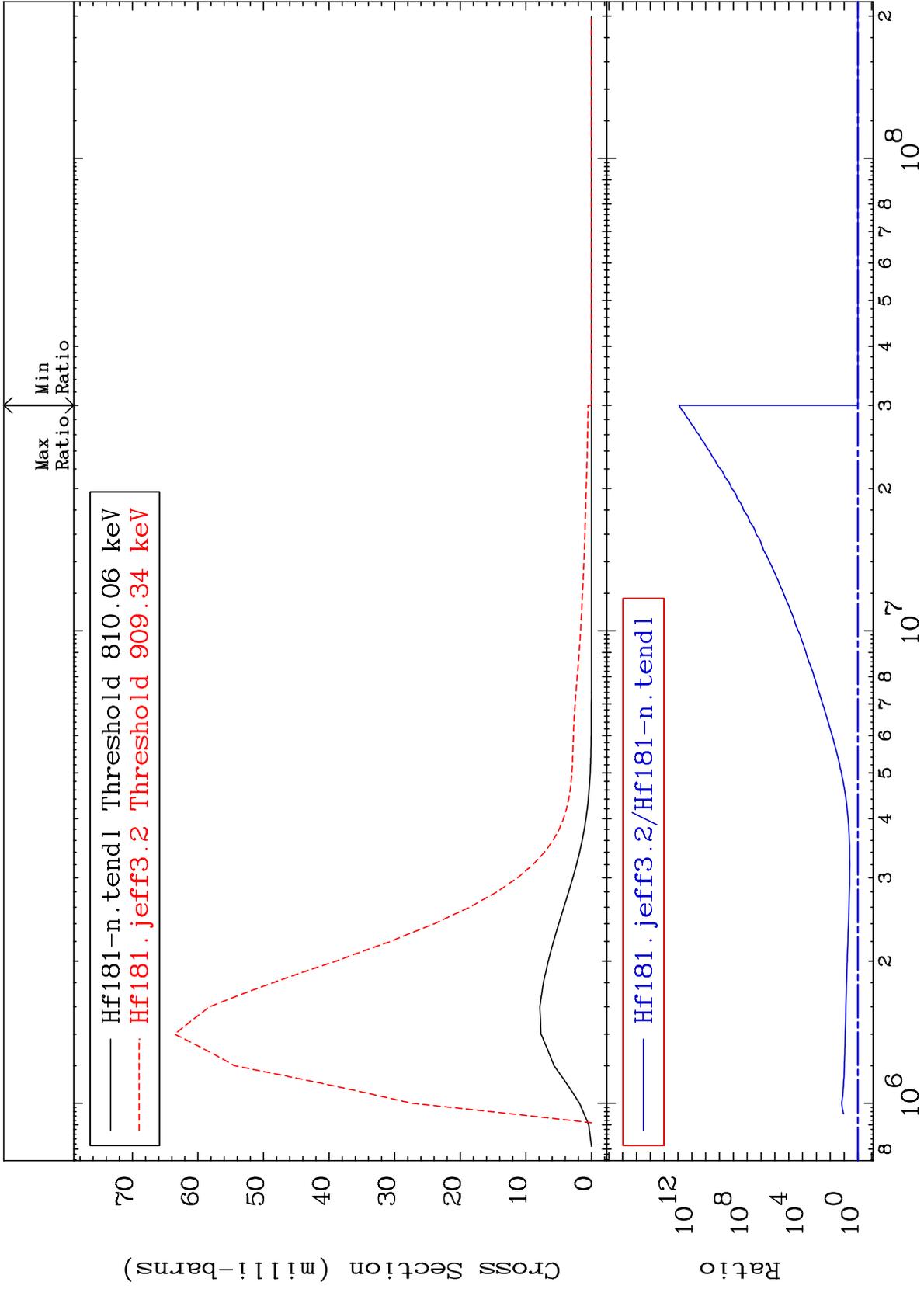
Incident Energy (eV)

72-Hf-181

MAT 7246

805.6 keV (n,n') Level
Cross Section

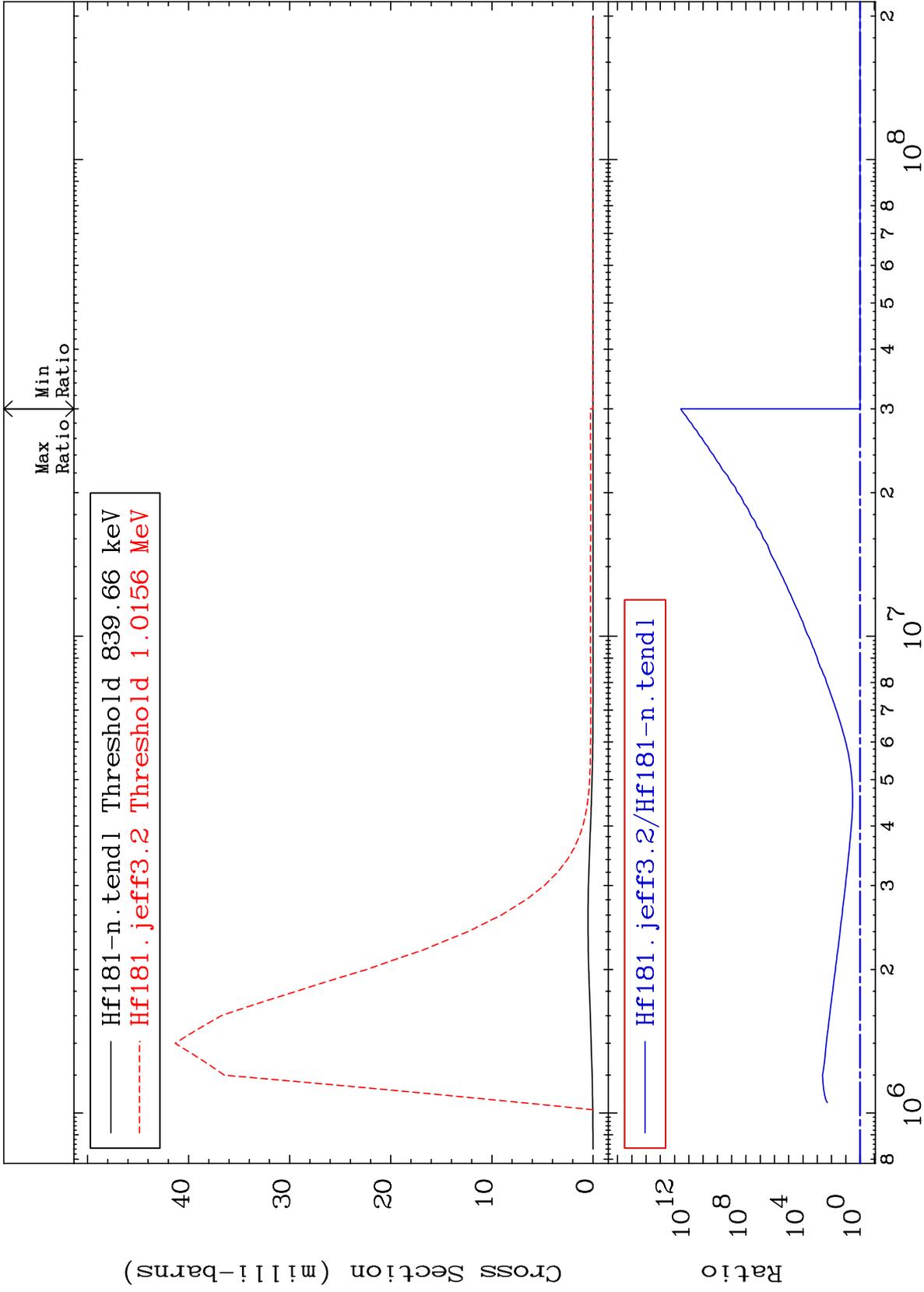
72-Hf-181
0.000 To 9999. %



MAT 7246

835.0 keV (n,n') Level
Cross Section

72-Hf-181
0.000 To 9999. %



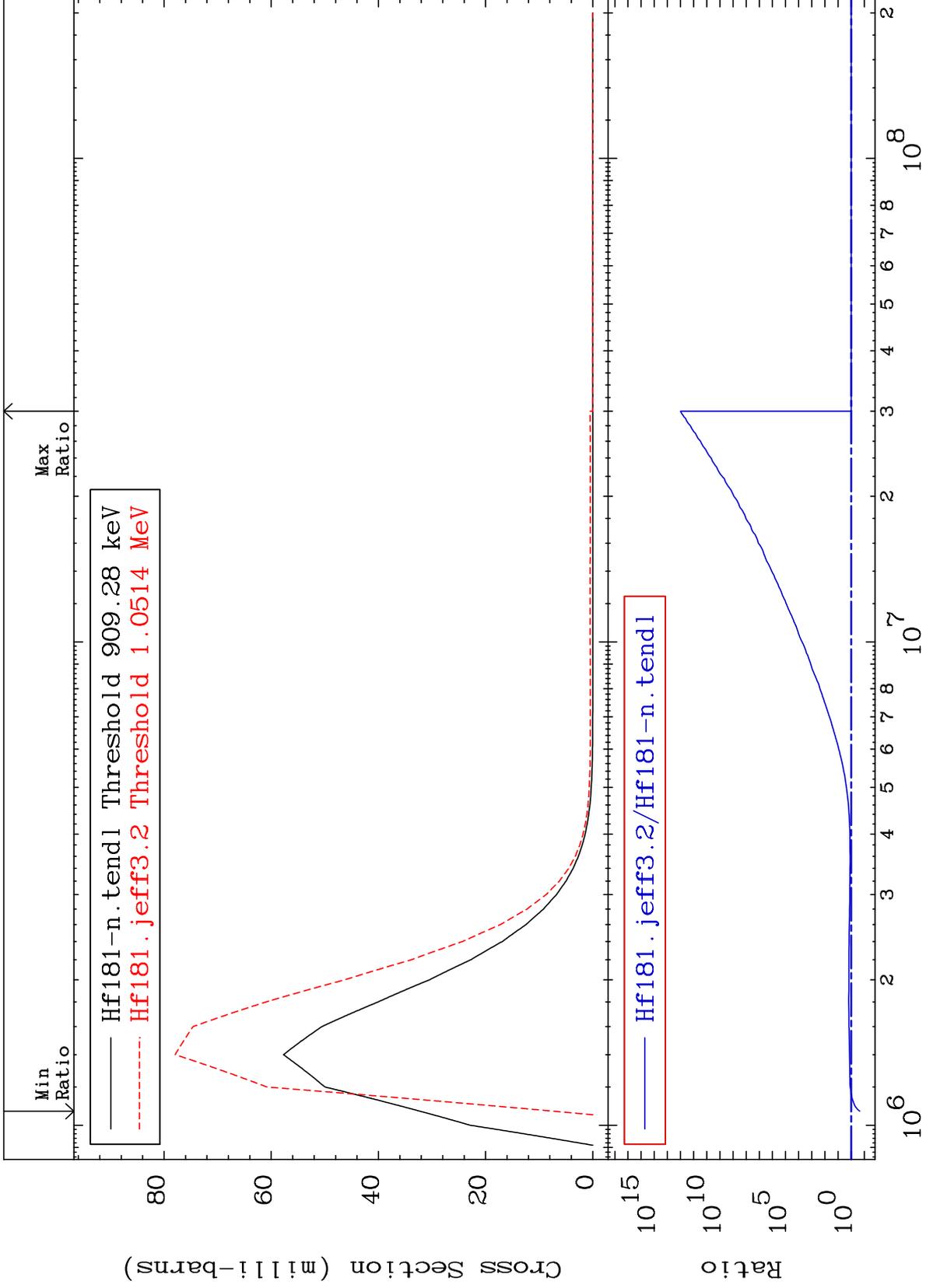
35

72-Hf-181

MAT 7246

904.2 keV (n,n') Level
Cross Section

72-Hf-181
-77.74 To 9999. %



36

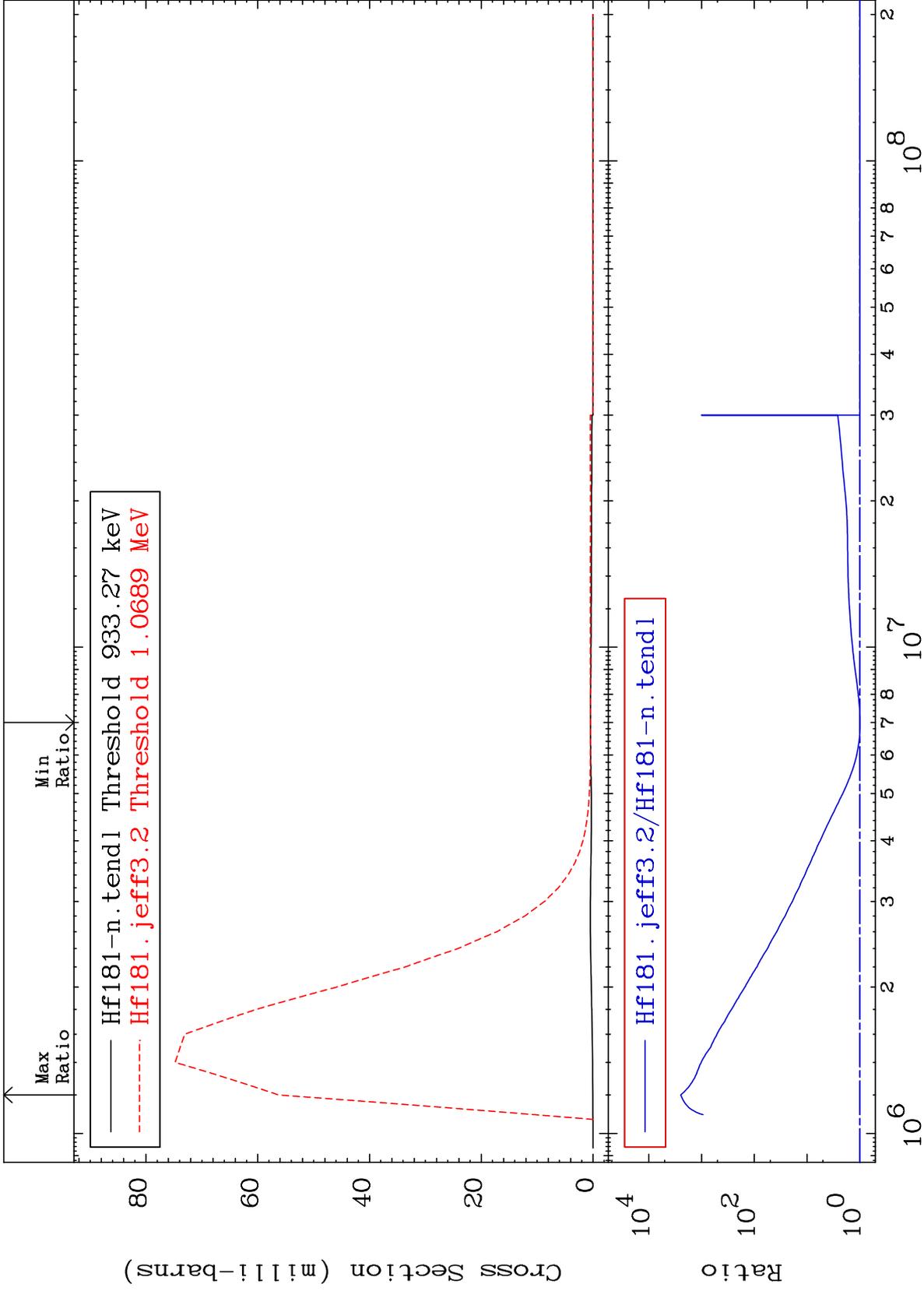
Incident Energy (eV)

72-Hf-181

MAT 7246

928.1 keV (n,n') Level
Cross Section

⁷²Hf-181
-0.724 To 9999. %



37

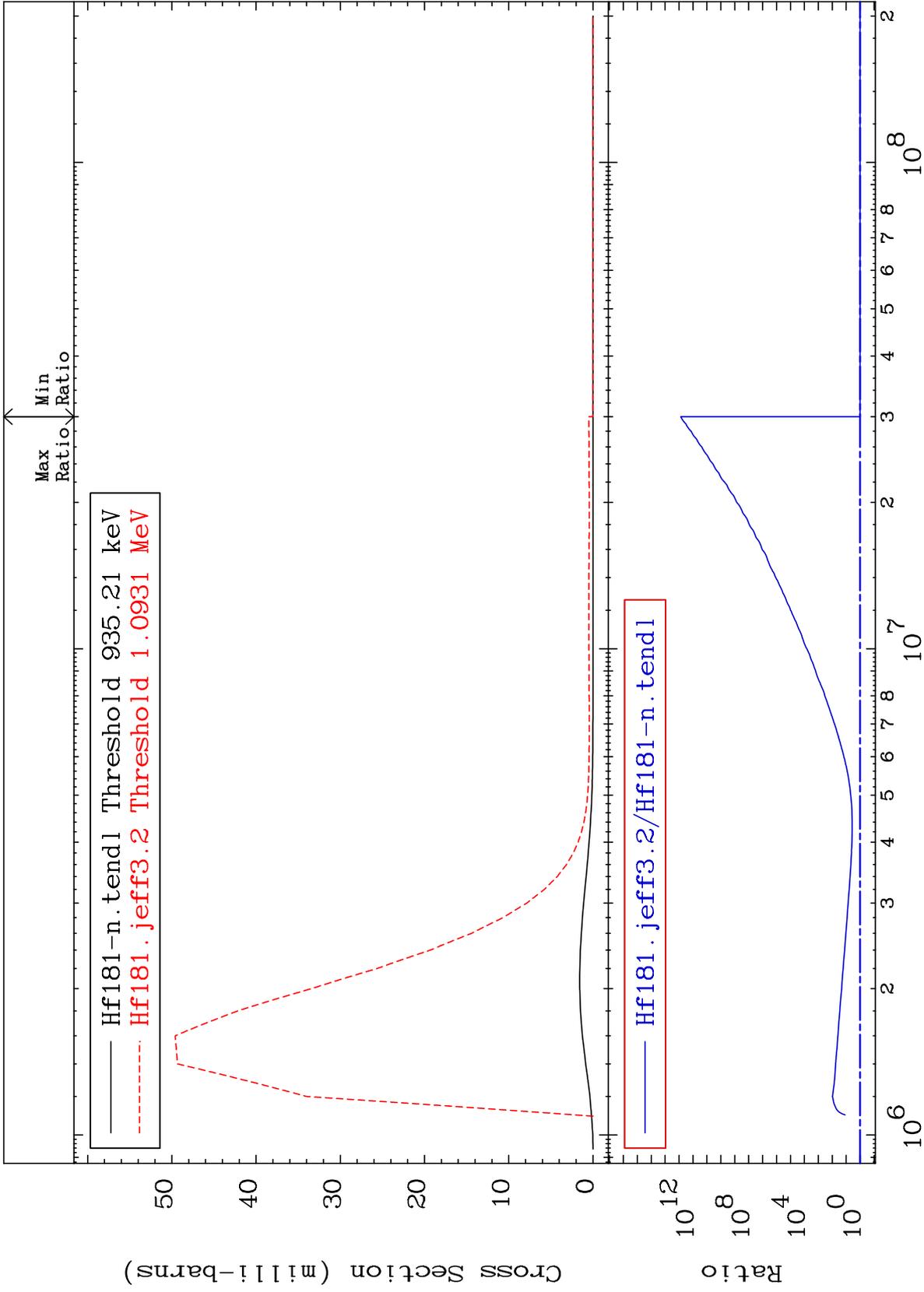
Incident Energy (eV)

⁷²Hf-181

MAT 7246

930.0 keV (n,n') Level
Cross Section

72-Hf-181
0.000 To 9999. %



38

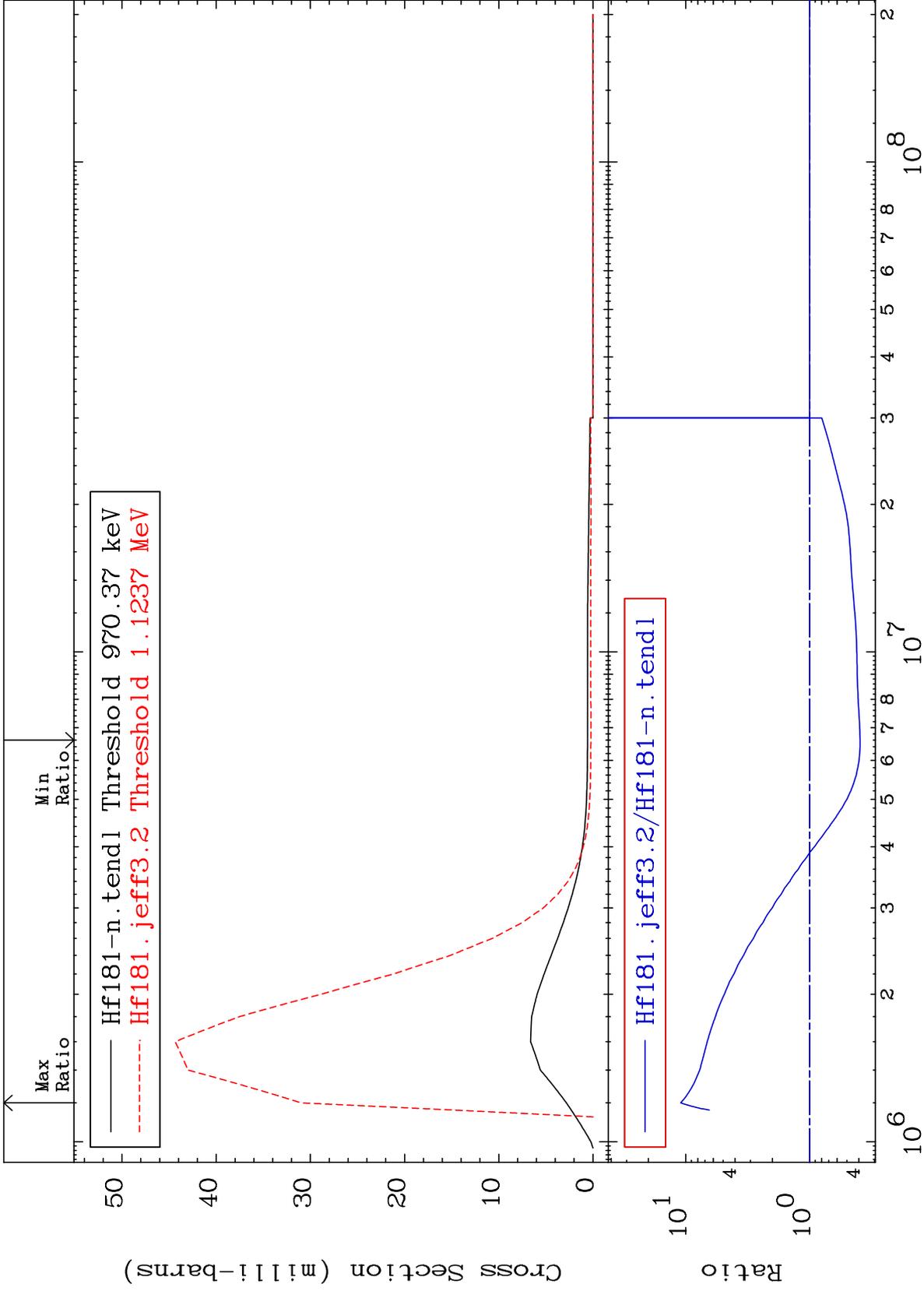
Incident Energy (eV)

72-Hf-181

MAT 7246

965.0 keV (n,n') Level
Cross Section

⁷²Hf-181
-60.86 To 996.9 %



39

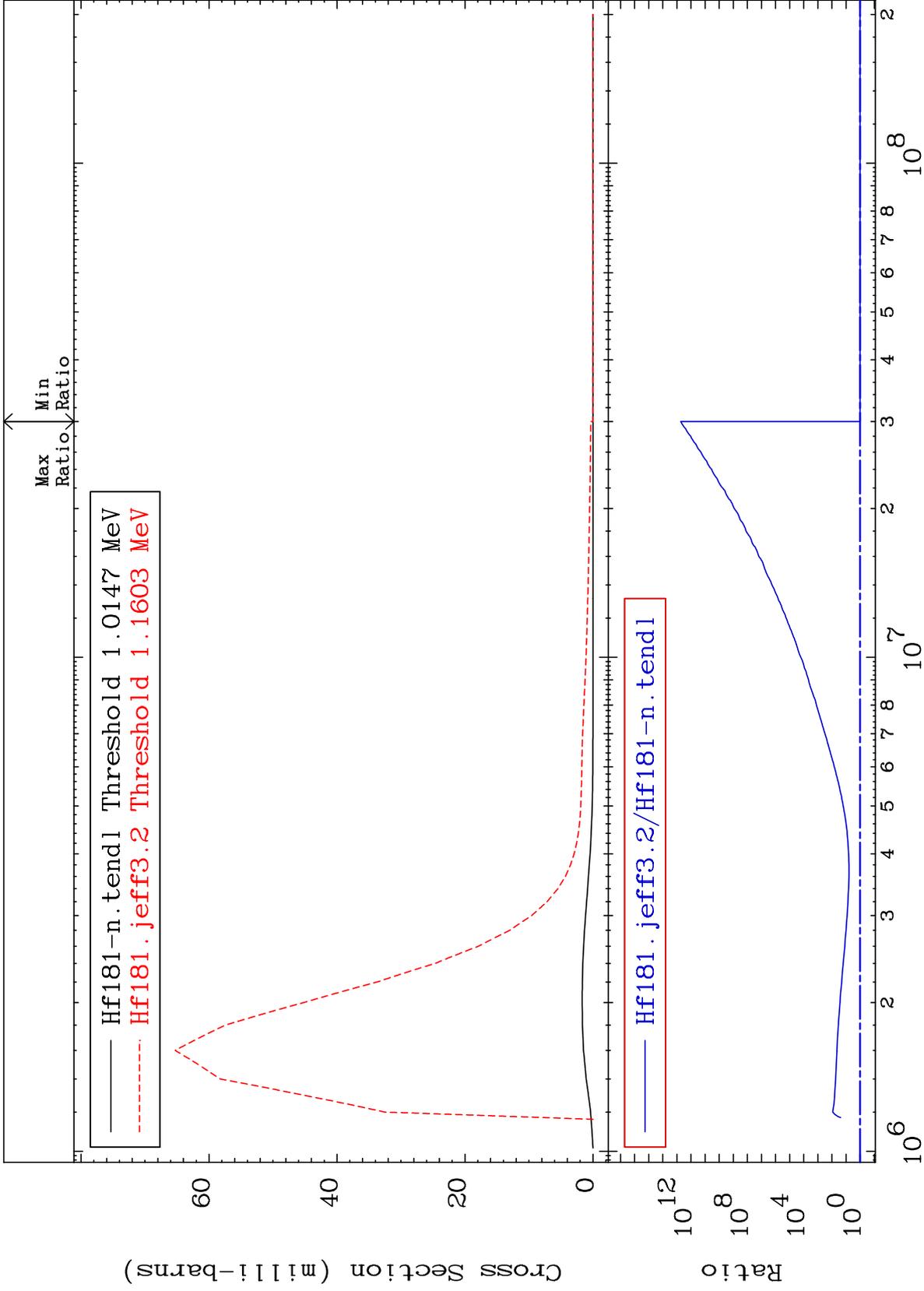
Incident Energy (eV)

⁷²Hf-181

MAT 7246

1.009 MeV (n,n') Level
Cross Section

72-Hf-181
0.000 To 9999. %



40

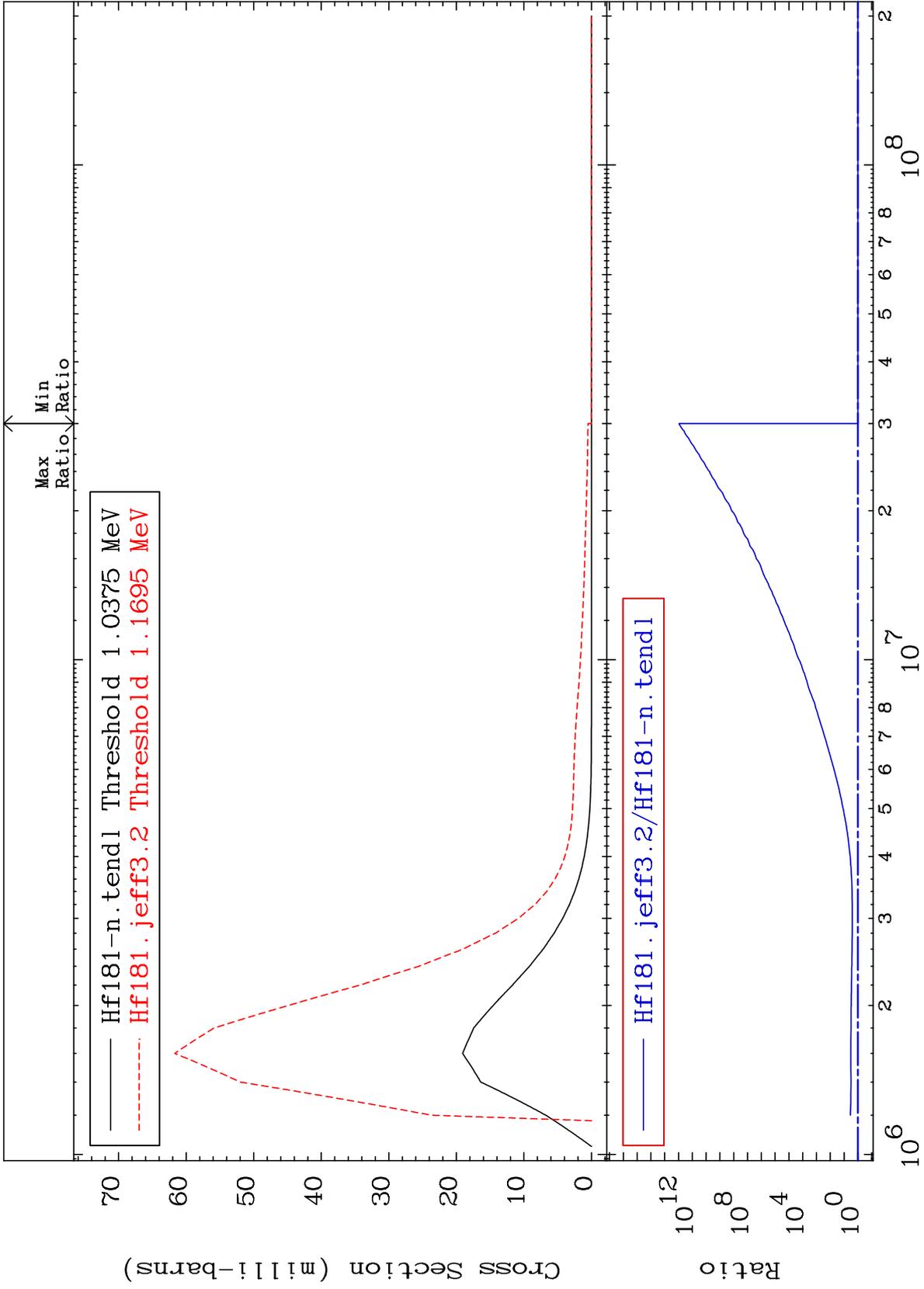
Incident Energy (eV)

72-Hf-181

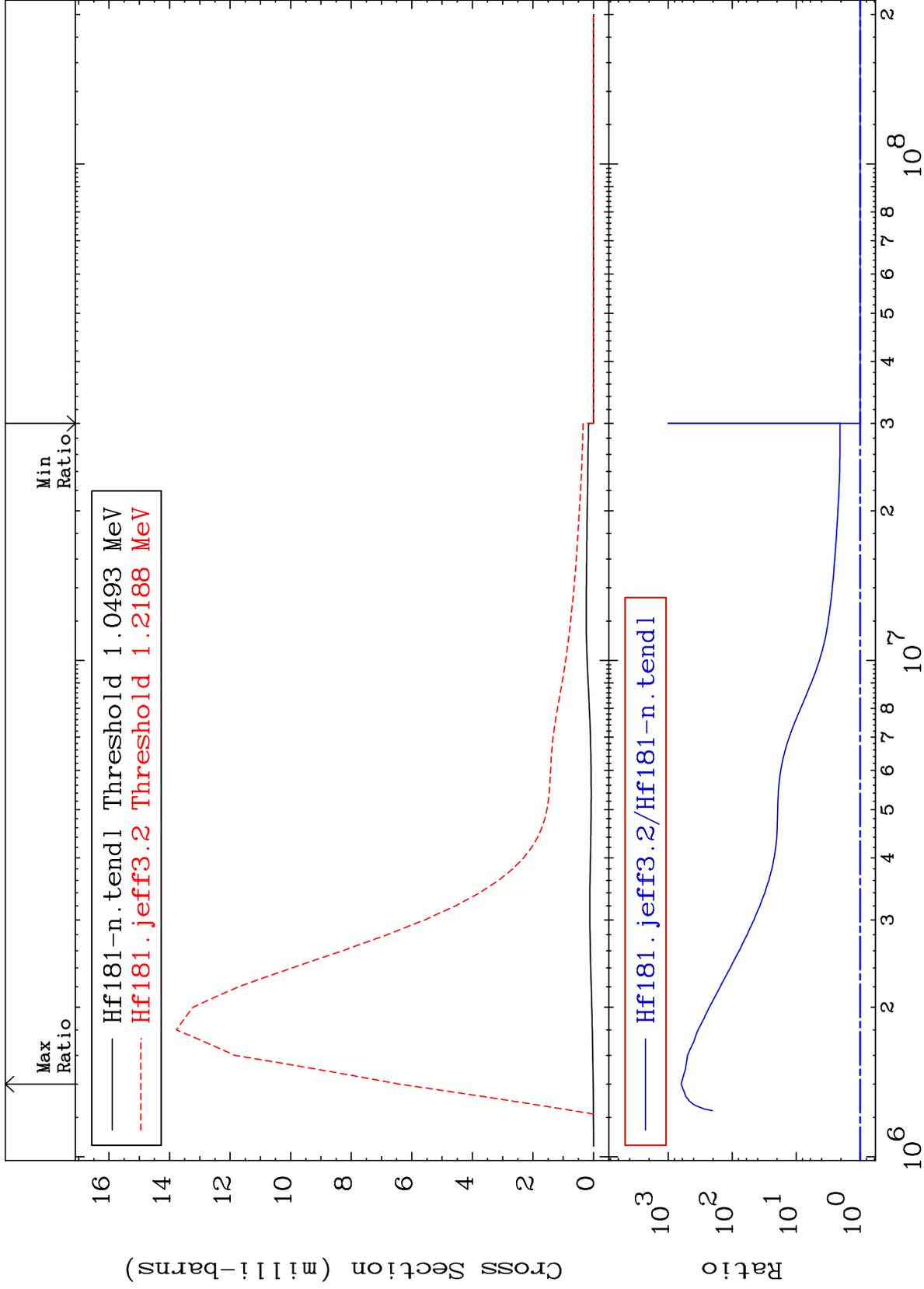
MAT 7246

1.032 MeV (n,n') Level
Cross Section

72-Hf-181
0.000 To 9999. %



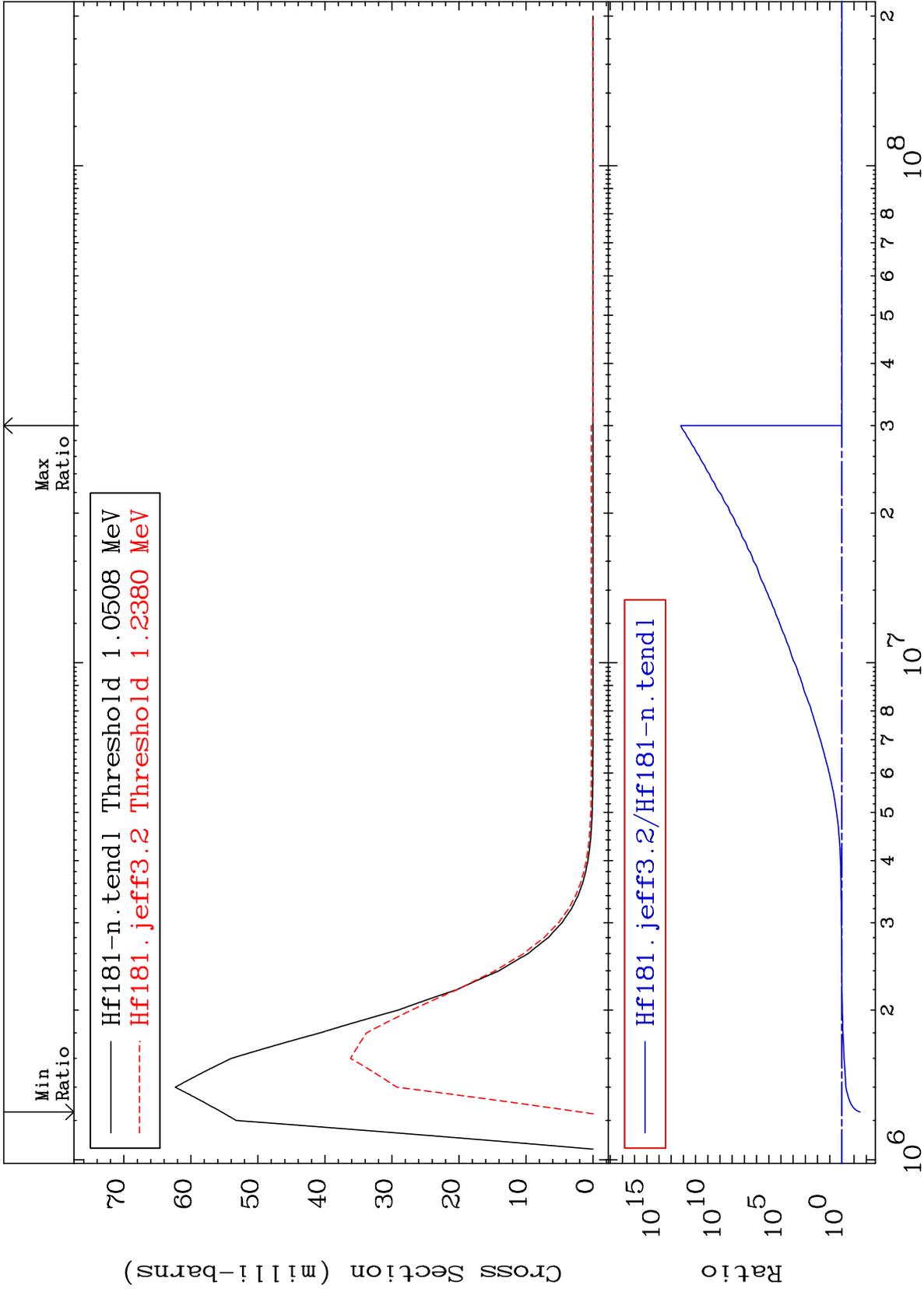
MAT 7246 1.043 MeV (n,n') Level 72-Hf-181
 Cross Section 0.000 To 9999. %



MAT 7246

1.045 MeV (n,n') Level
Cross Section

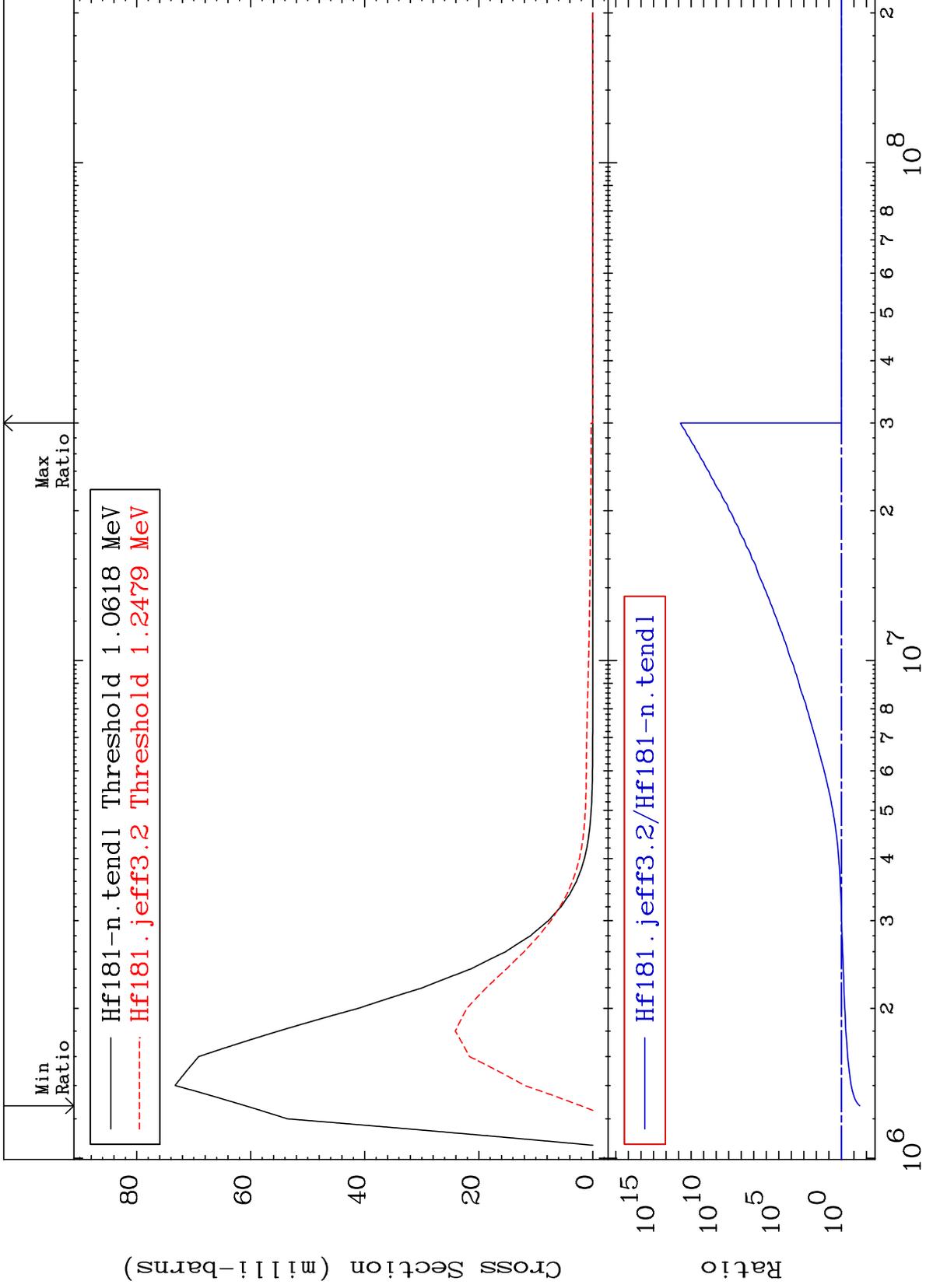
⁷²Hf-181
-96.76 To 9999. %



MAT 7246

1.056 MeV (n,n') Level
Cross Section

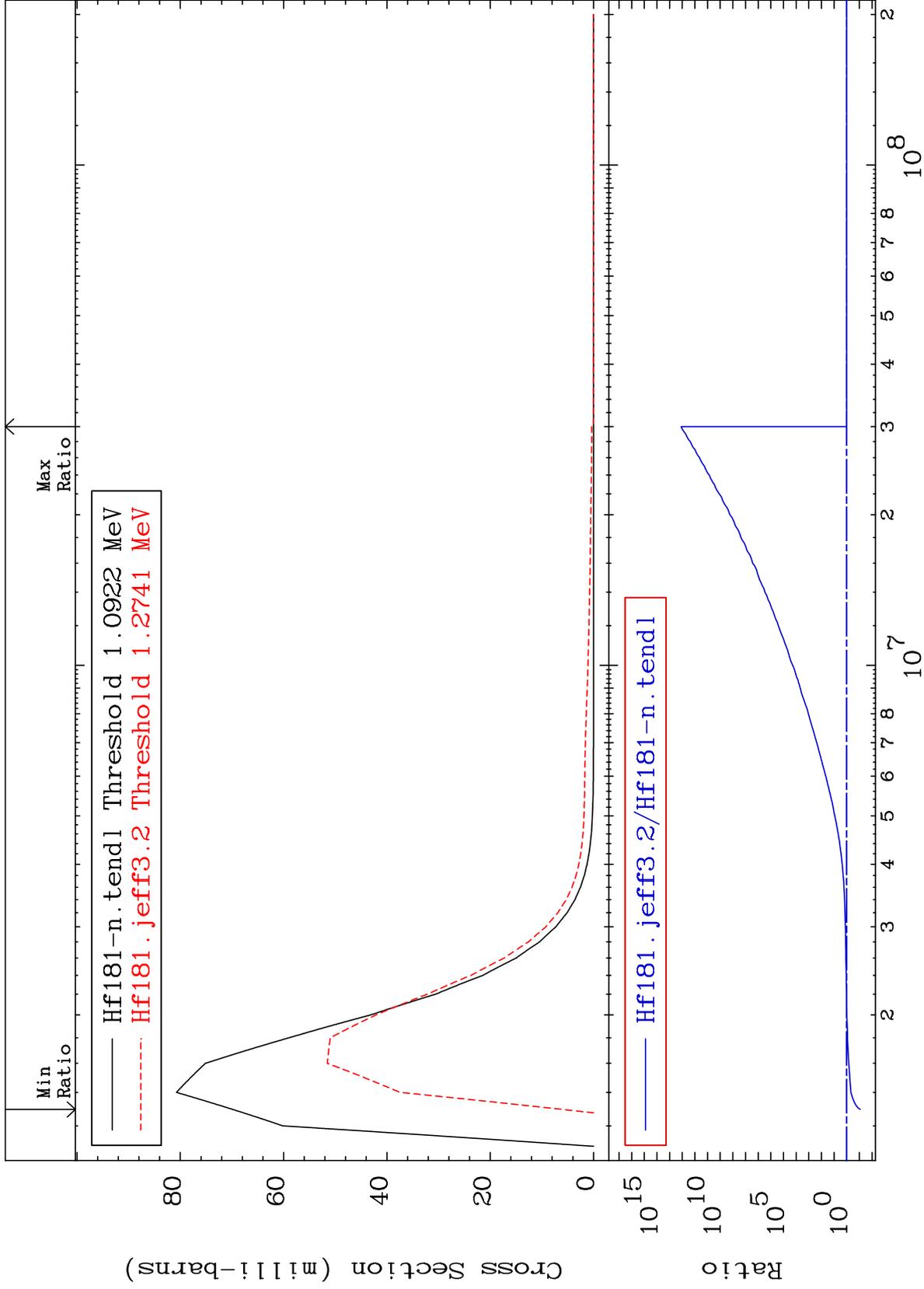
72-Hf-181
-96.63 To 9999. %

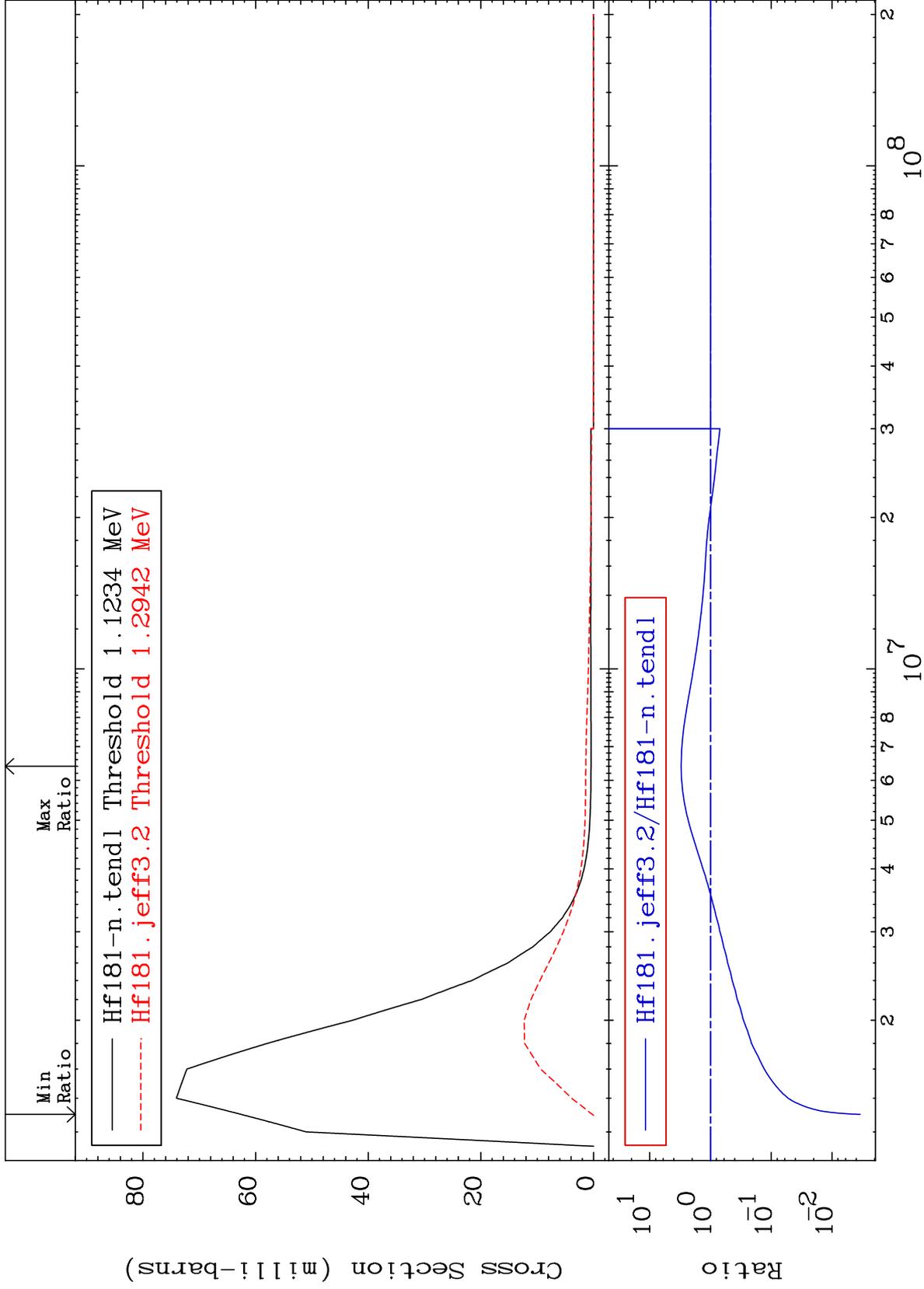


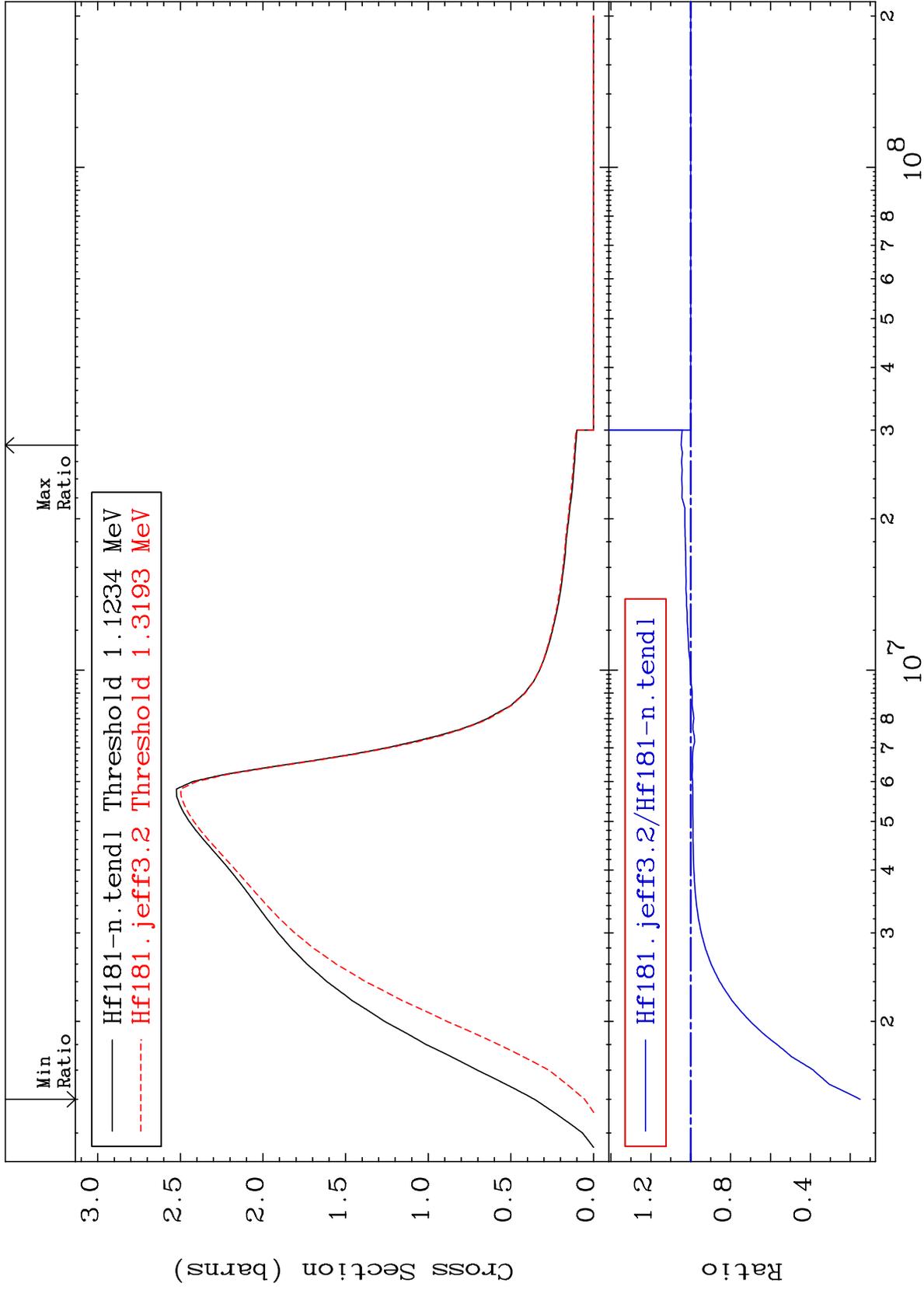
MAT 7246

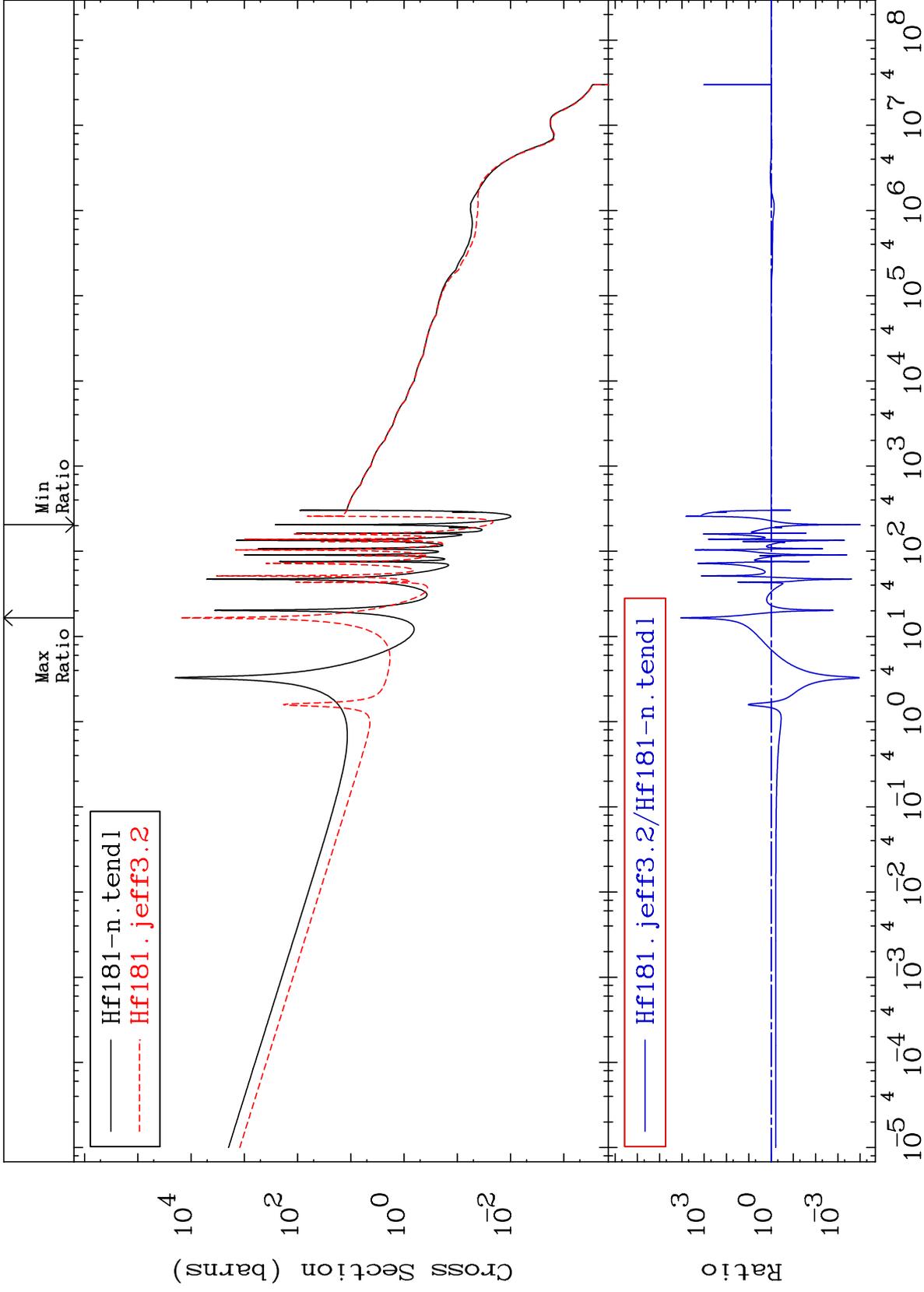
1.086 MeV (n,n') Level
Cross Section

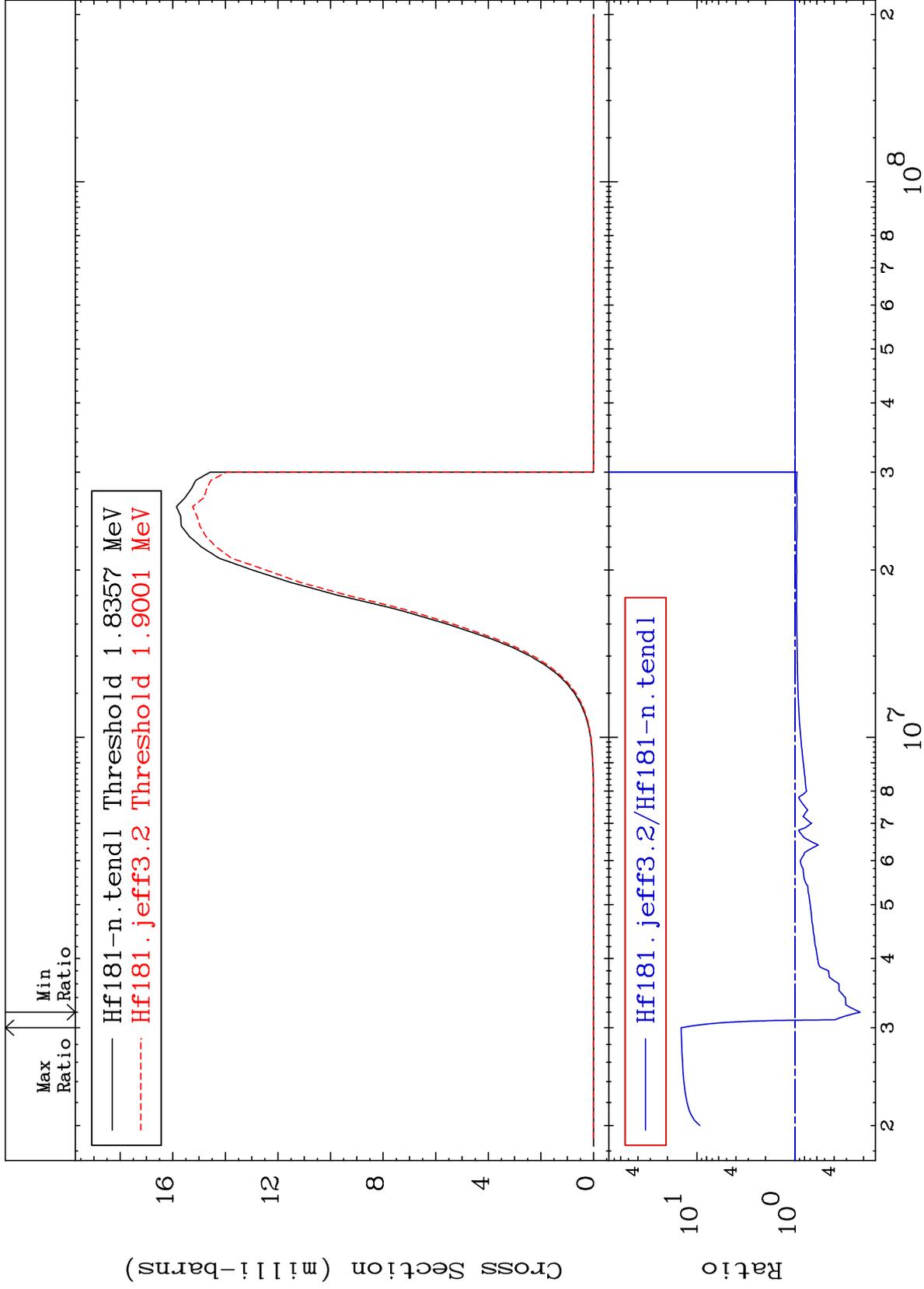
⁷²Hf-181
-91.43 To 9999. %











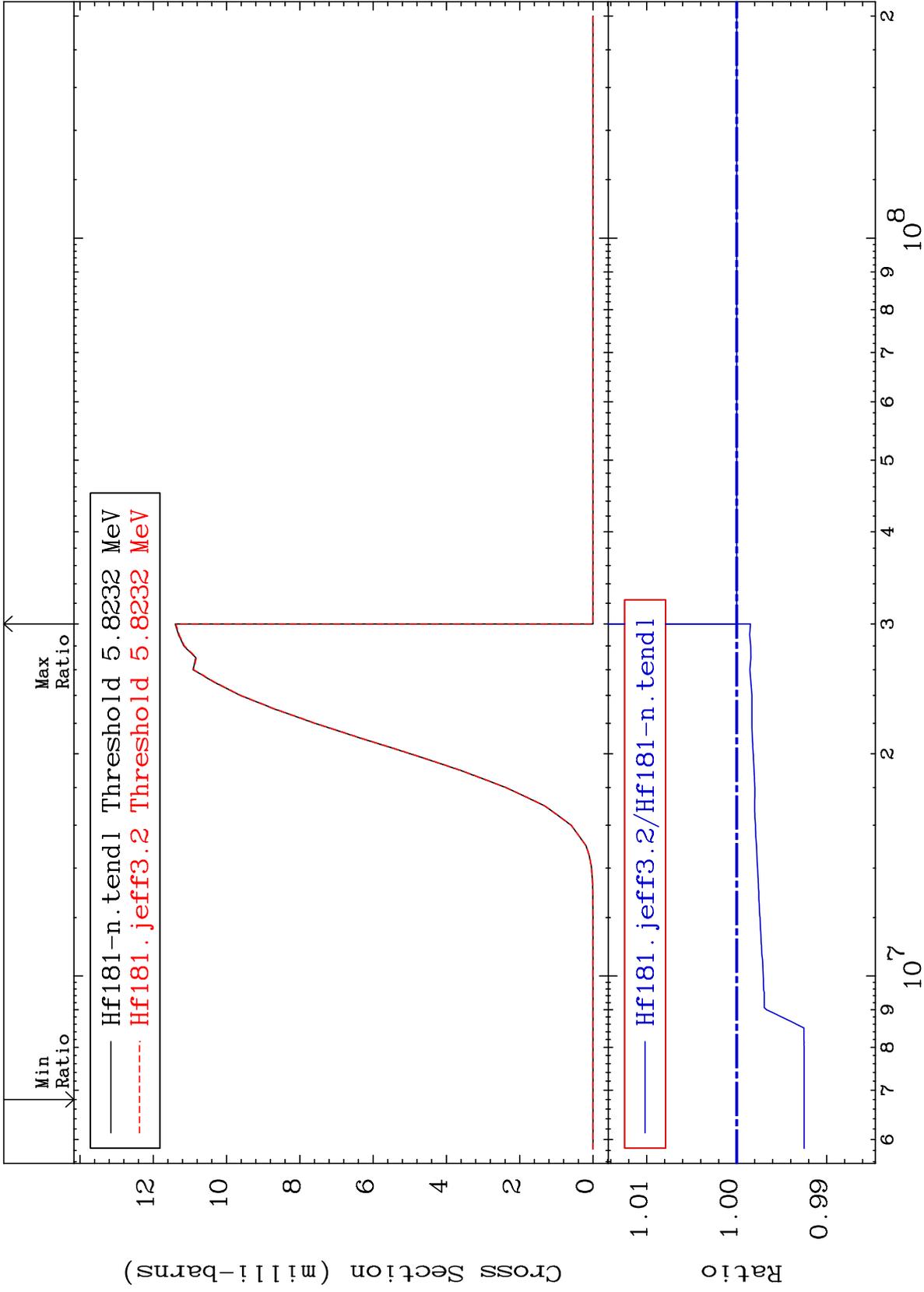
MAT 7246

(n, d)

⁷²Hf-181

Cross Section

-0.750 To 0.000 %



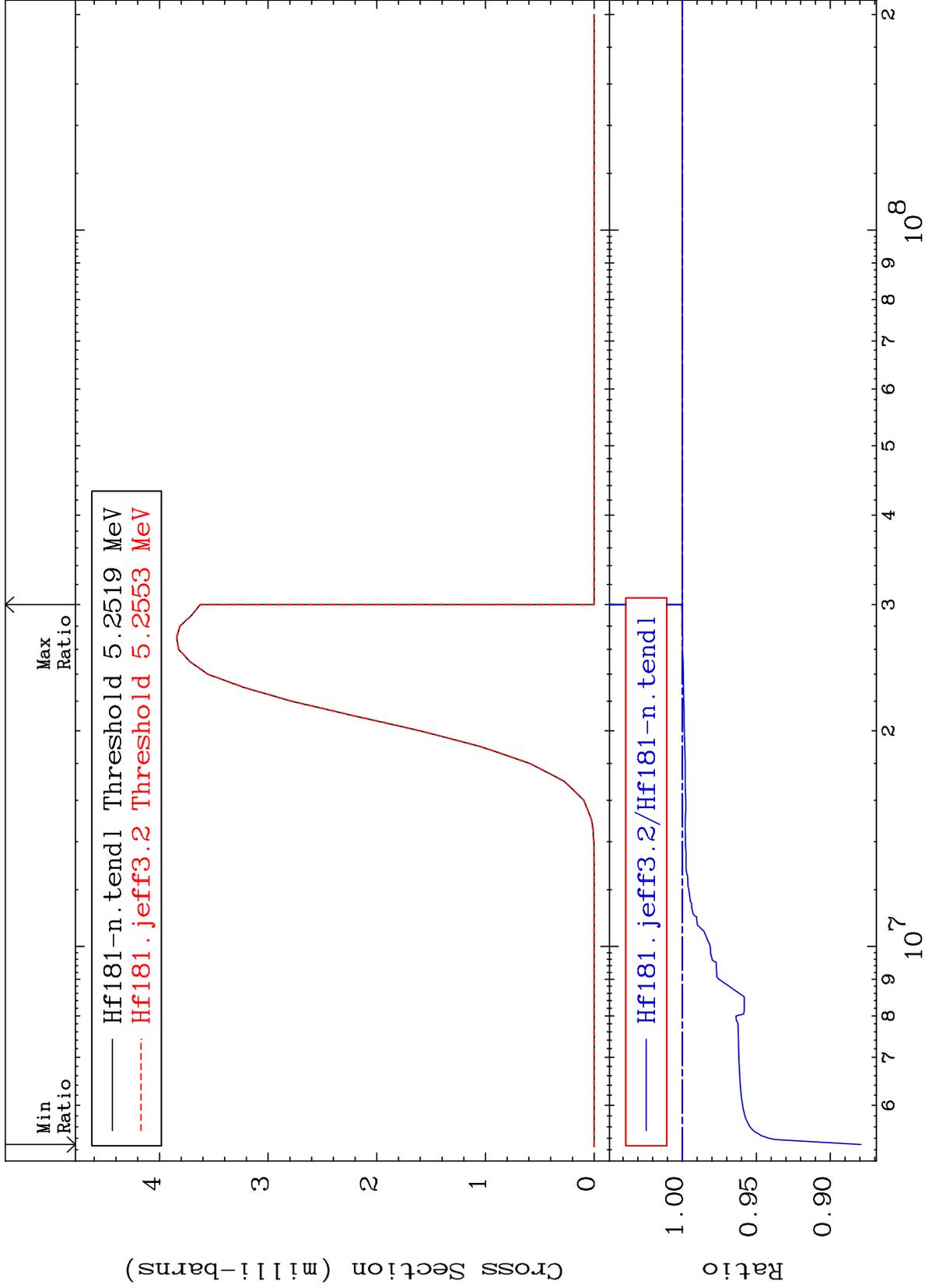
50

Incident Energy (eV)

⁷²Hf-181

Cross Section

-12.08 To 0.023 %



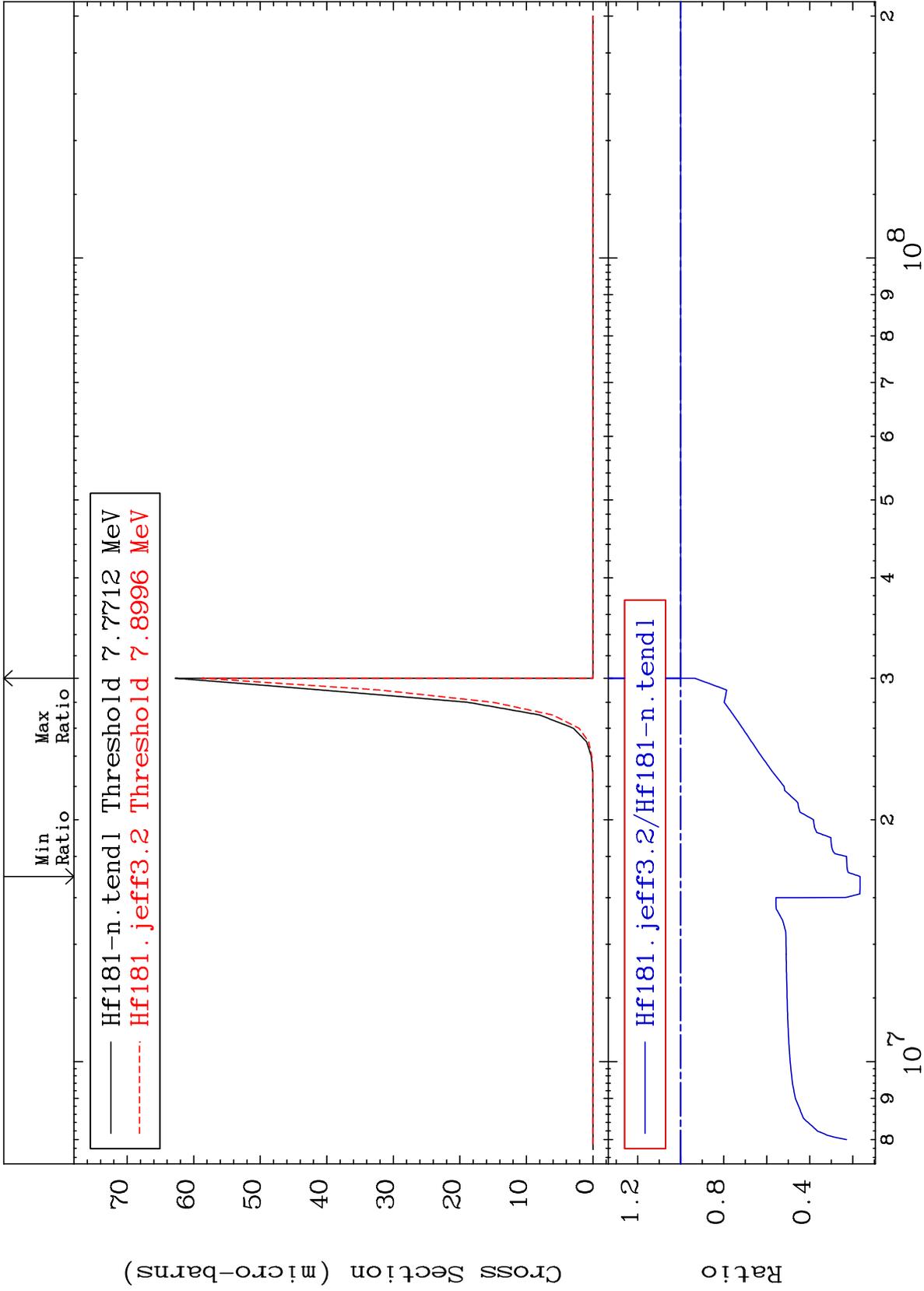
MAT 7246

(n, He-3)

72-Hf-181

Cross Section

-83.42 To 0.000 %



52

Incident Energy (eV)

72-Hf-181

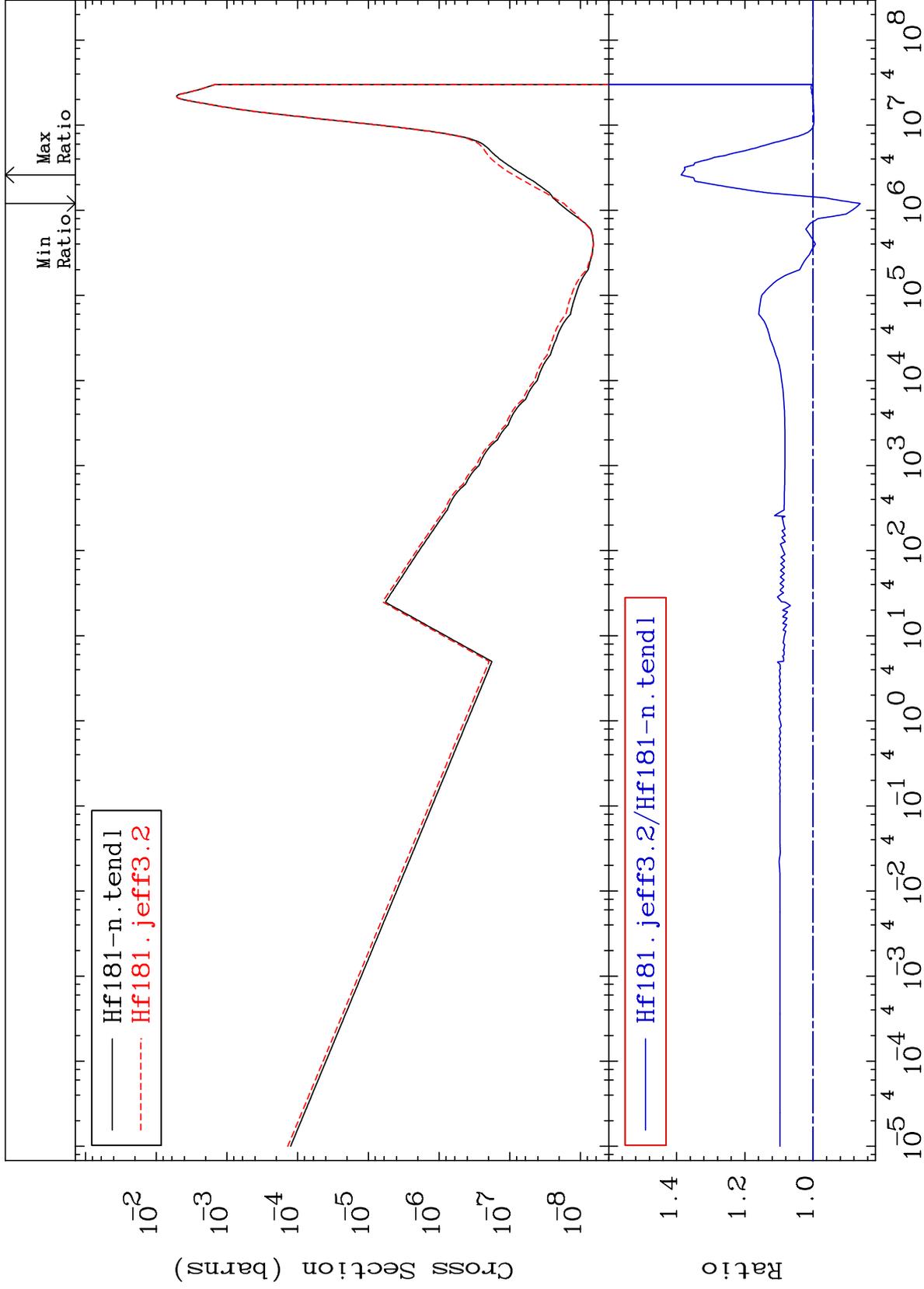
MAT 7246

(n, α)

72-Hf-181

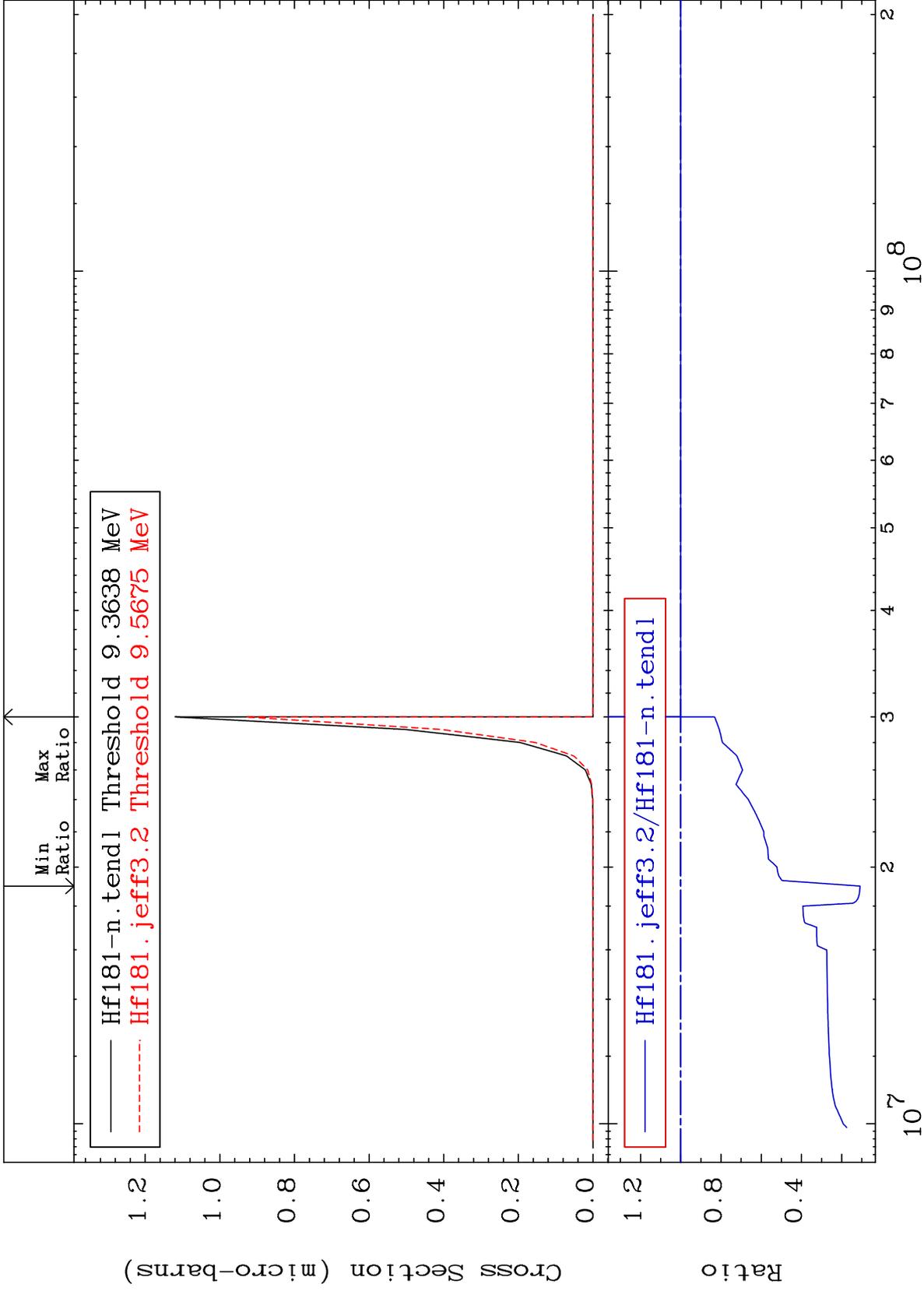
Cross Section

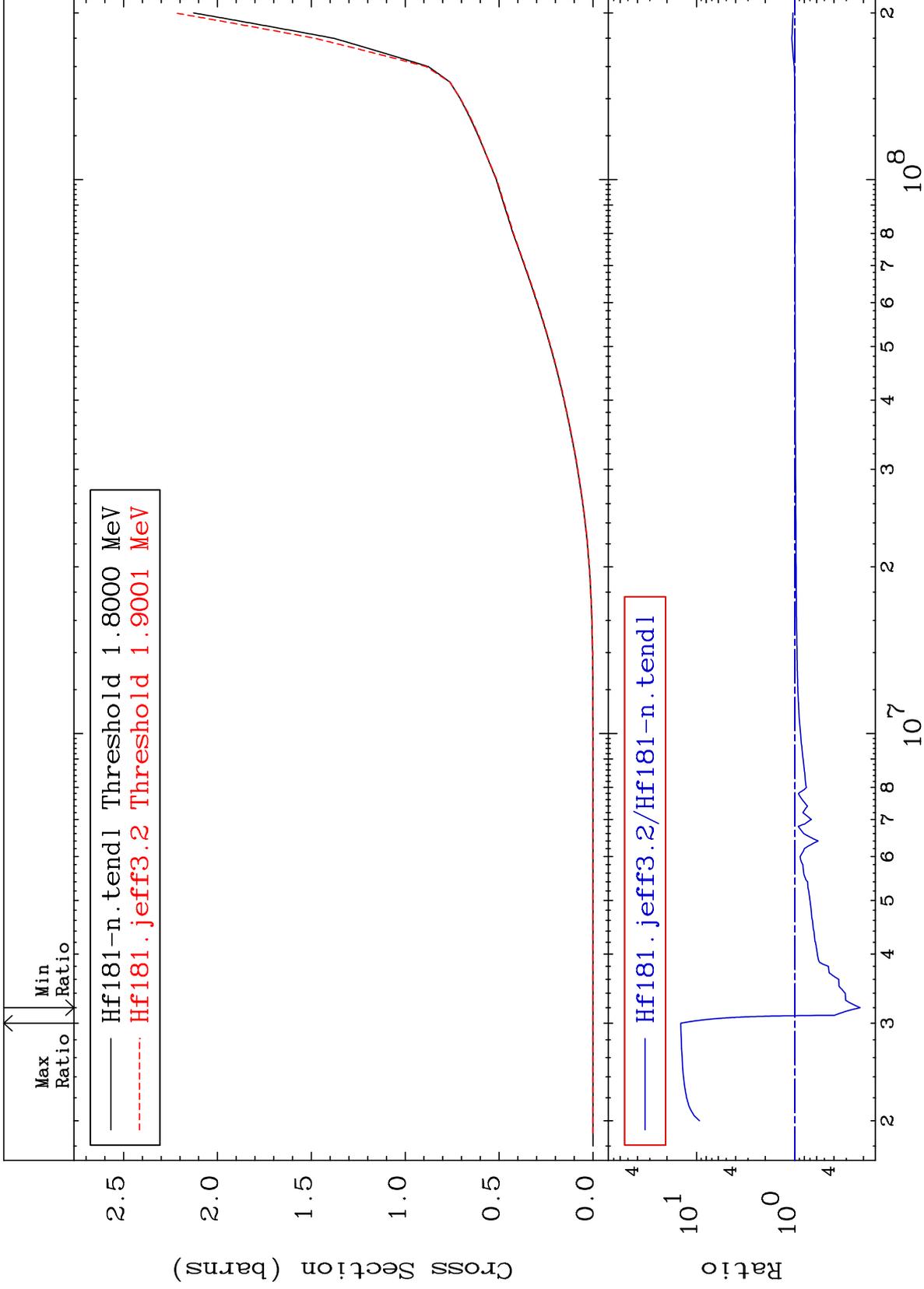
-13.82 To 38.67 %



Cross Section

-89.15 To 0.000 %

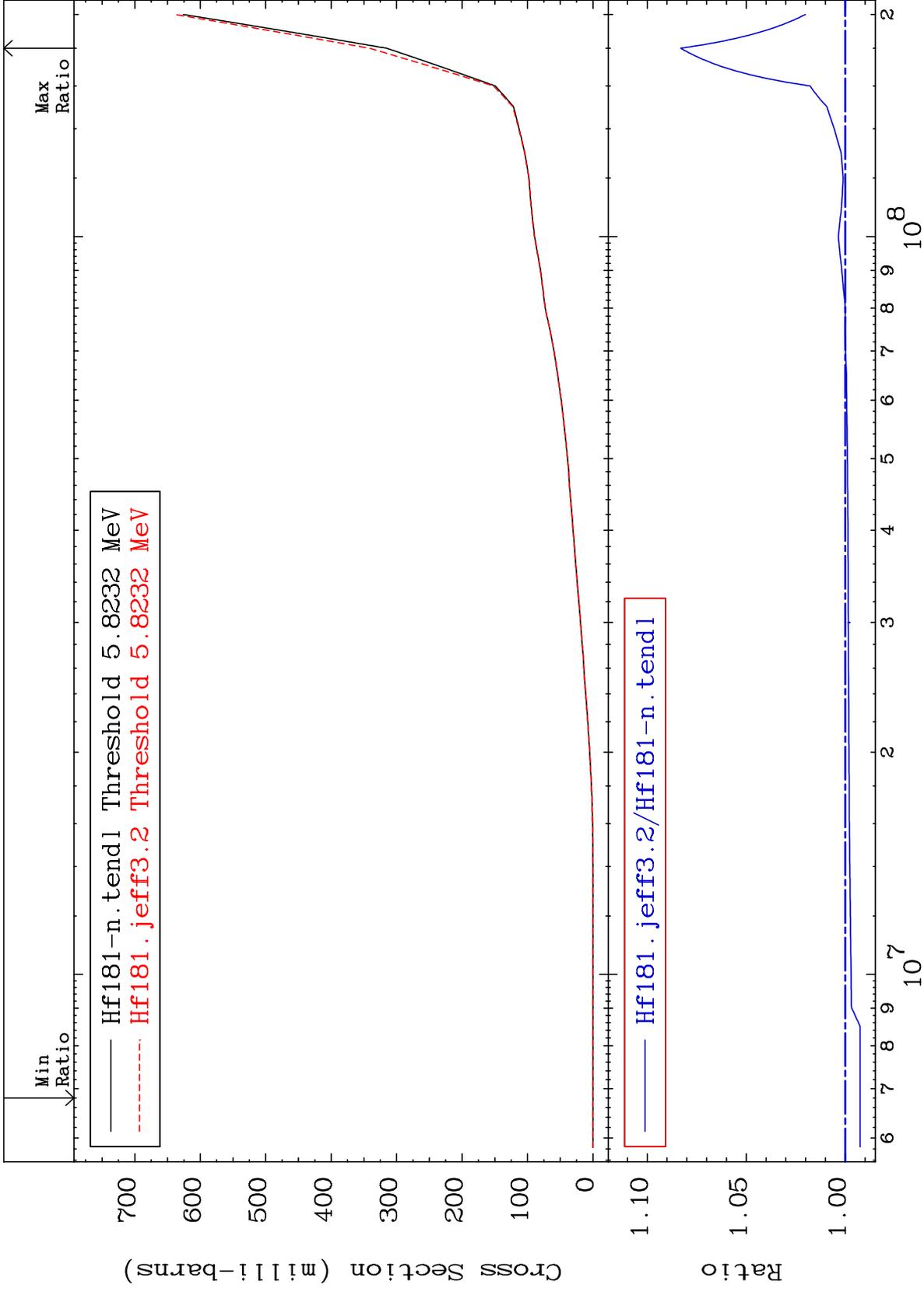




MAT 7246

Deuterium Production
Cross Section

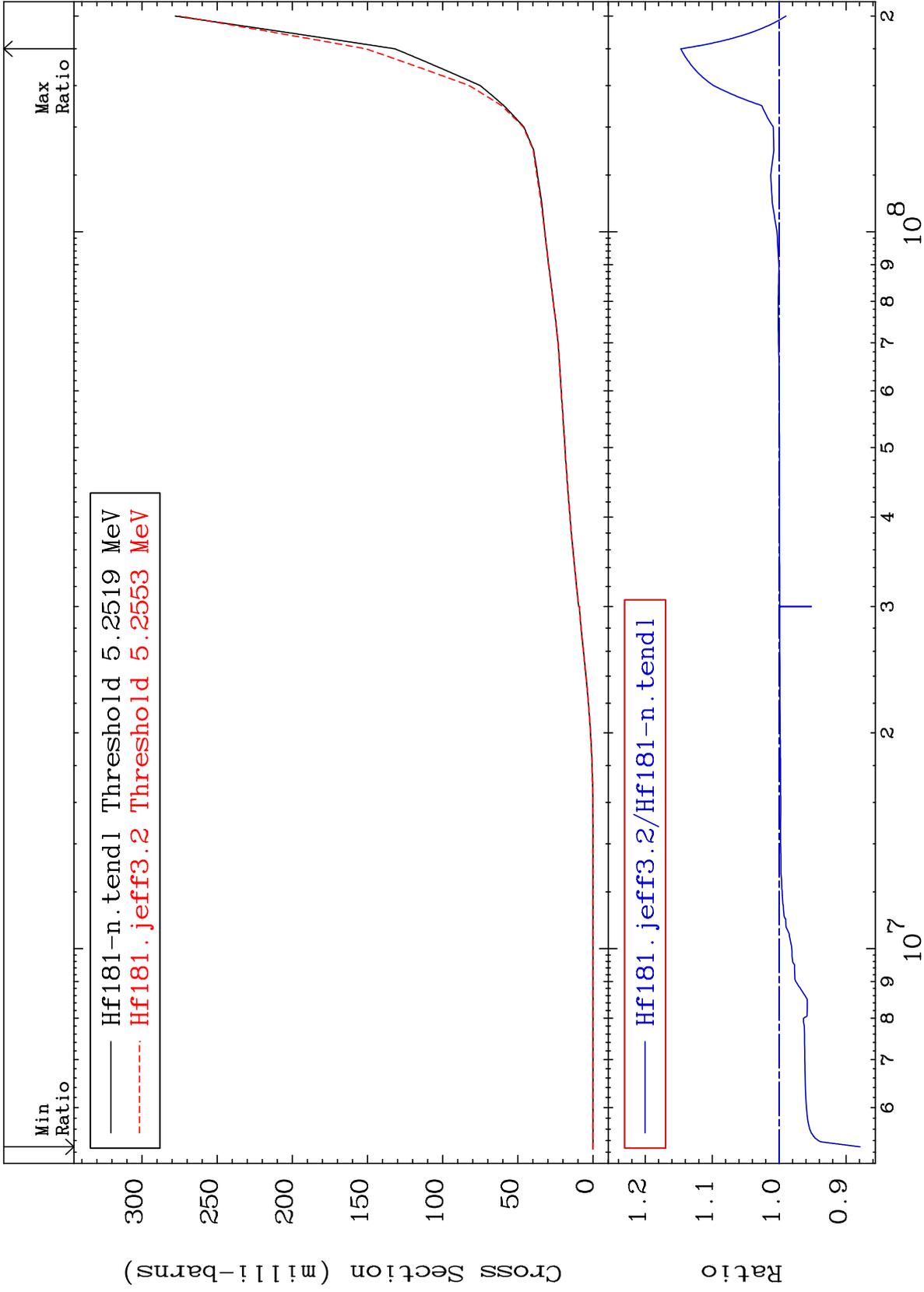
⁷²Hf-¹⁸¹
-0.750 To 8.306 %



MAT 7246

Tritium Production
Cross Section

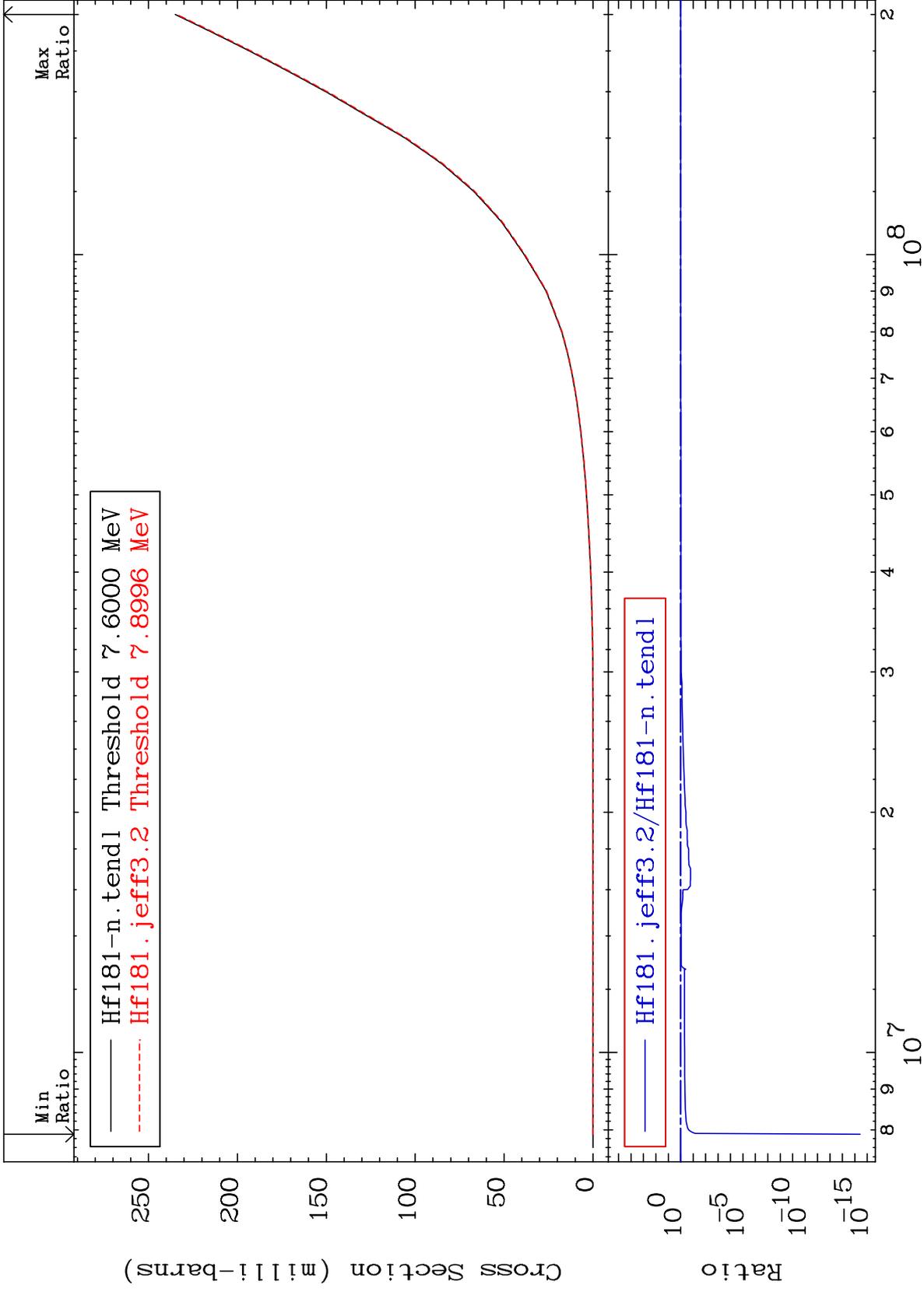
⁷²Hf-181
-12.08 To 14.69 %



MAT 7246

He-3 Production
Cross Section

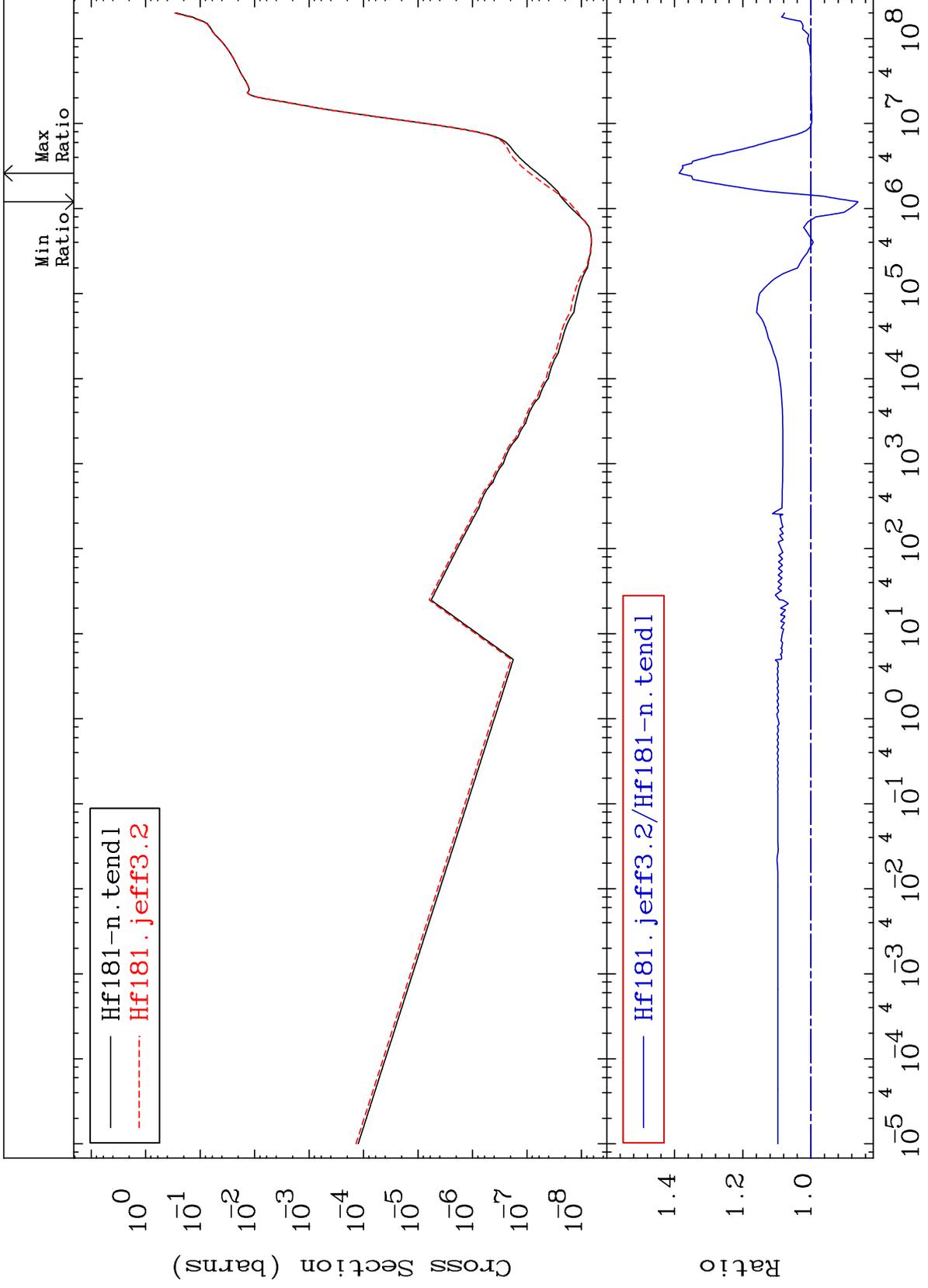
⁷²Hf-181
-100.0 To -0.382%

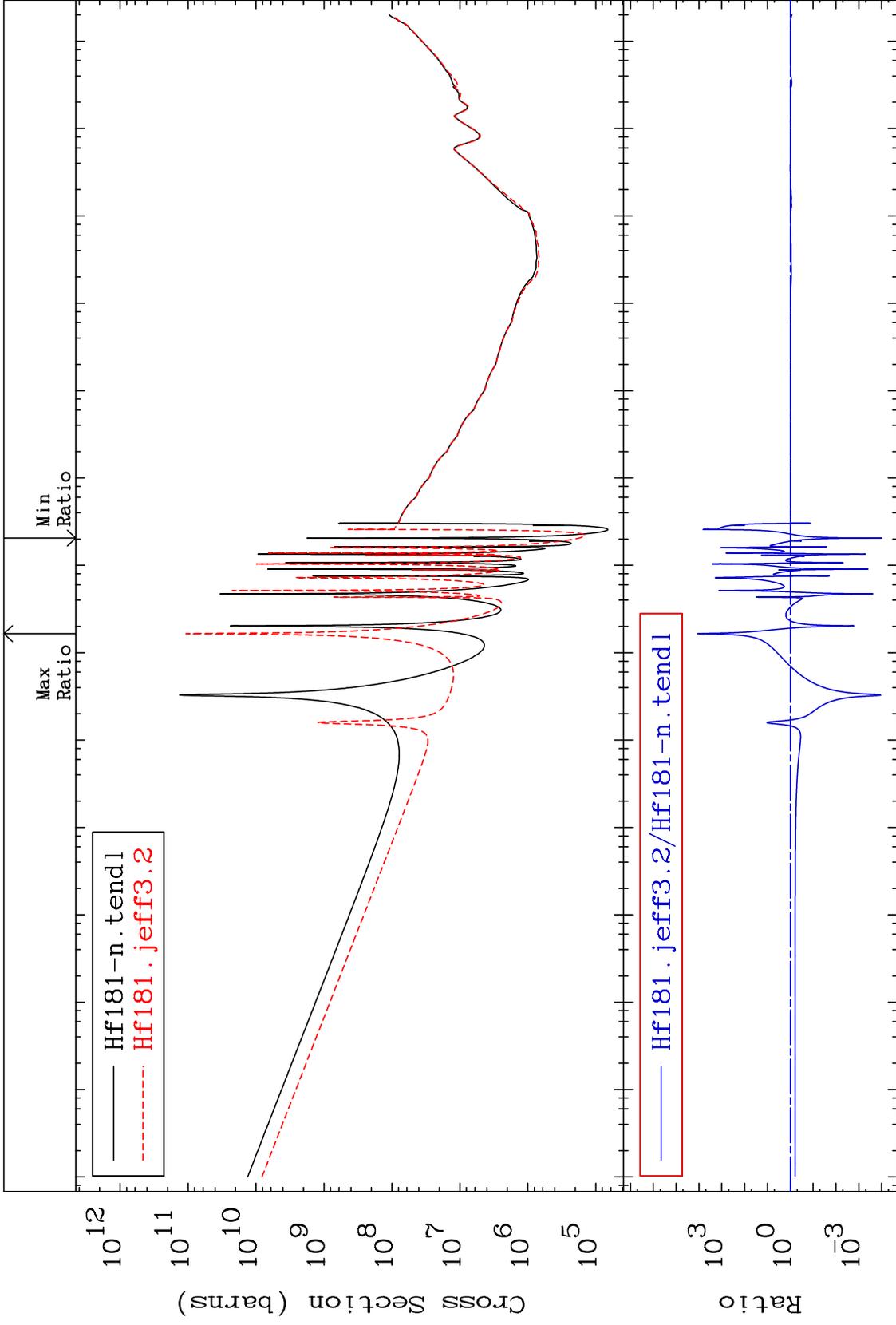


MAT 7246

He-4 Production
Cross Section

72-Hf-181
-13.82 To 38.67 %

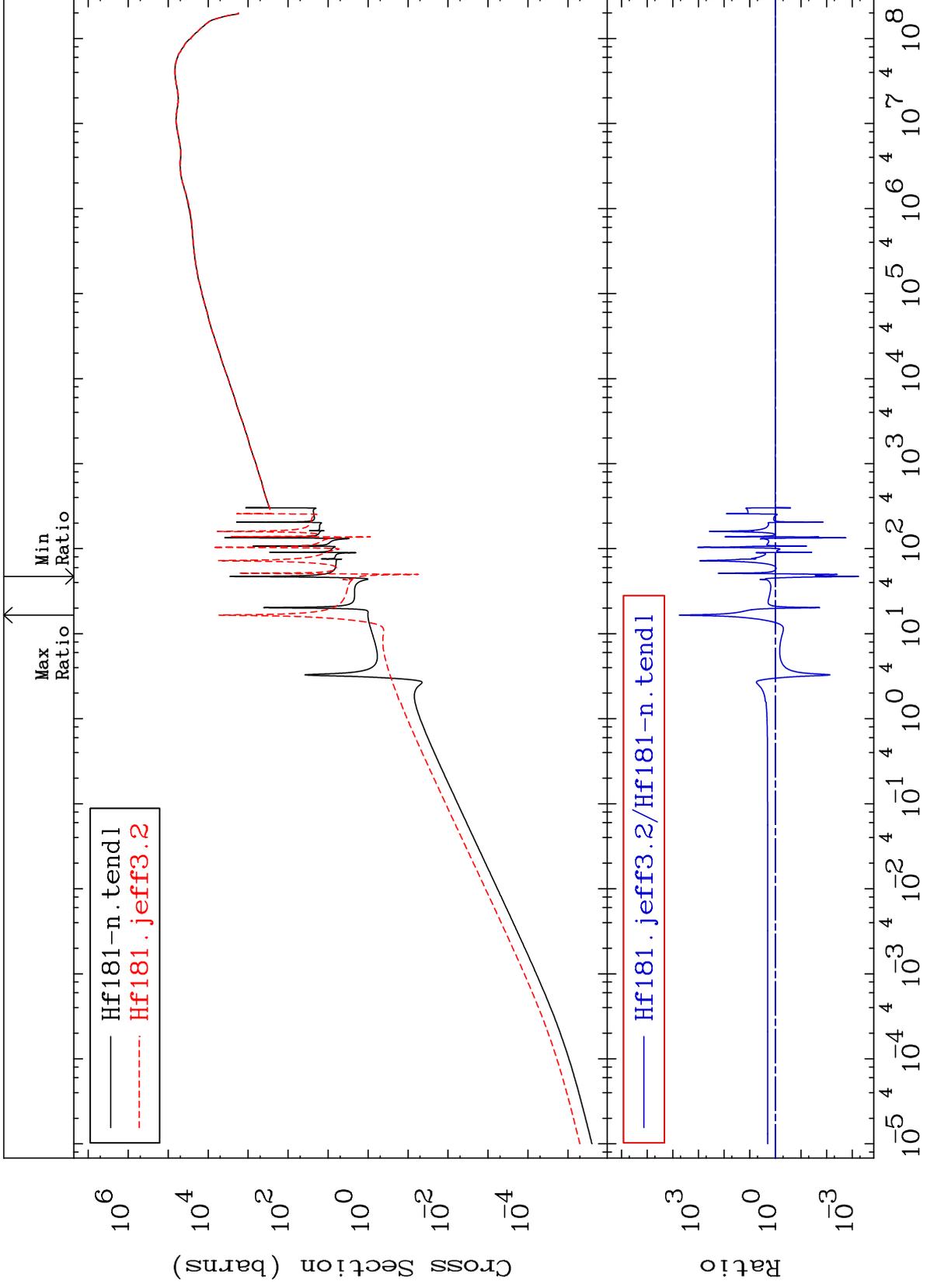




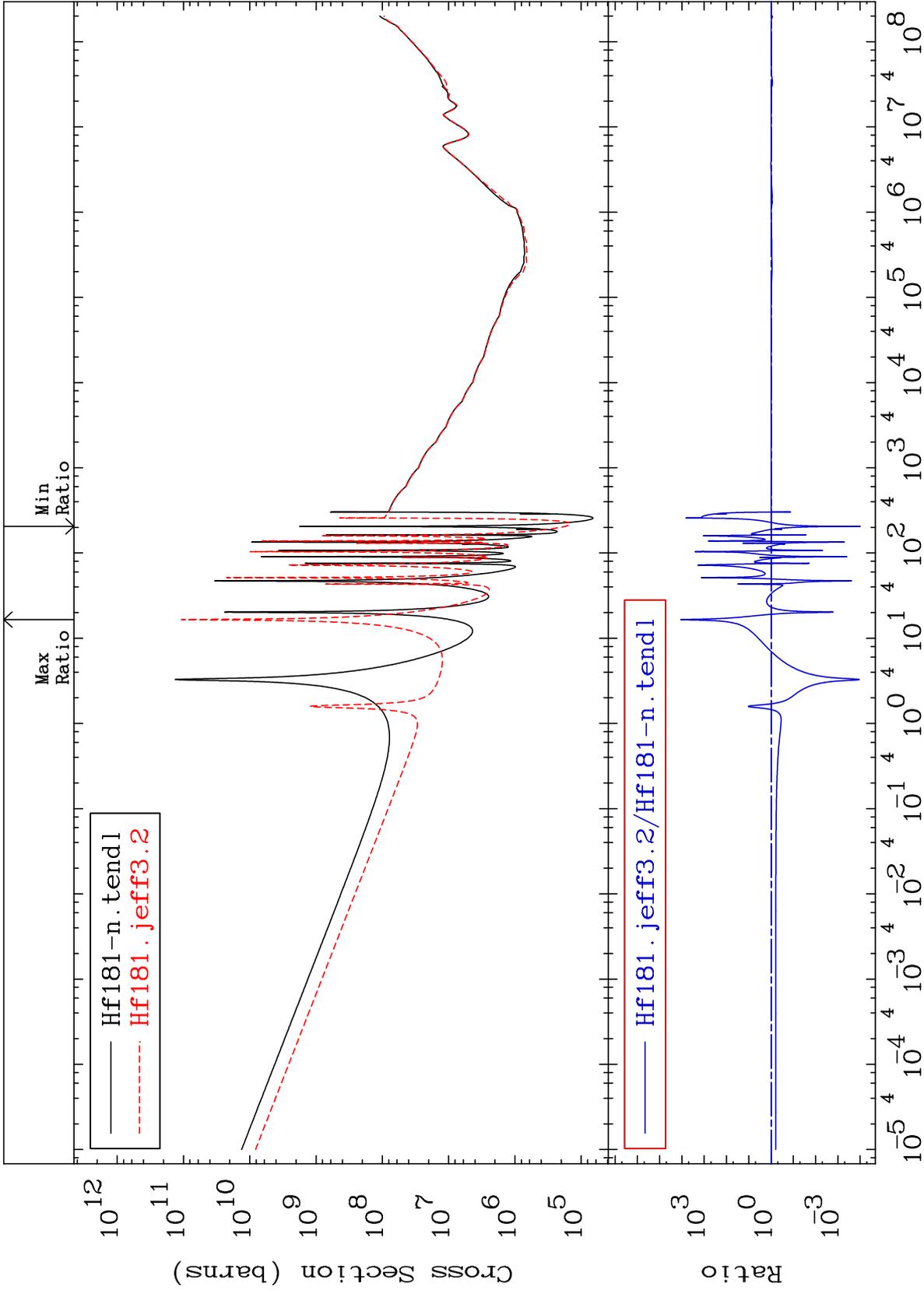
MAT 7246

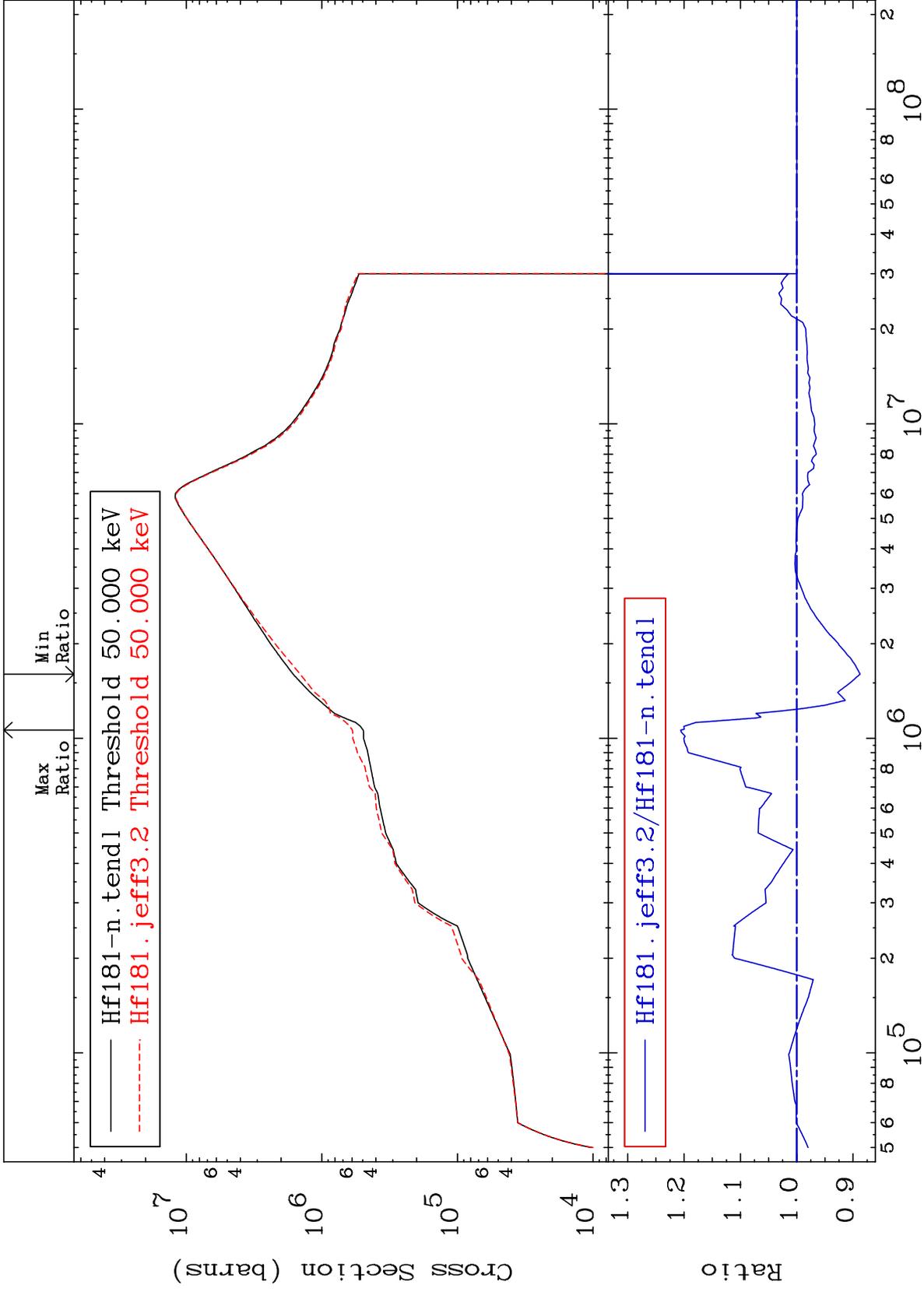
Kerma elastic
Cross Section

72-Hf-181
-99.94 To 9999. %



Cross Section

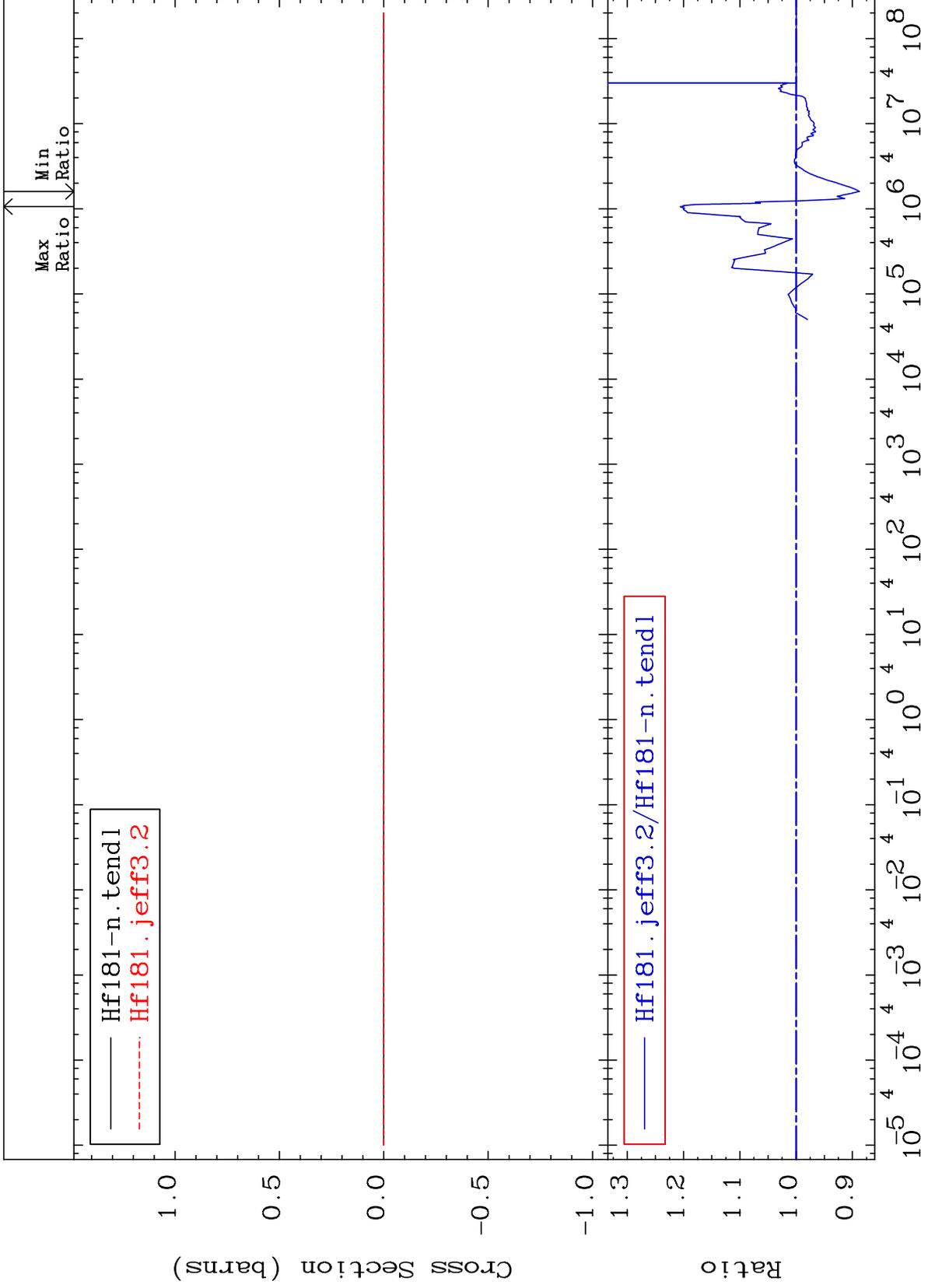


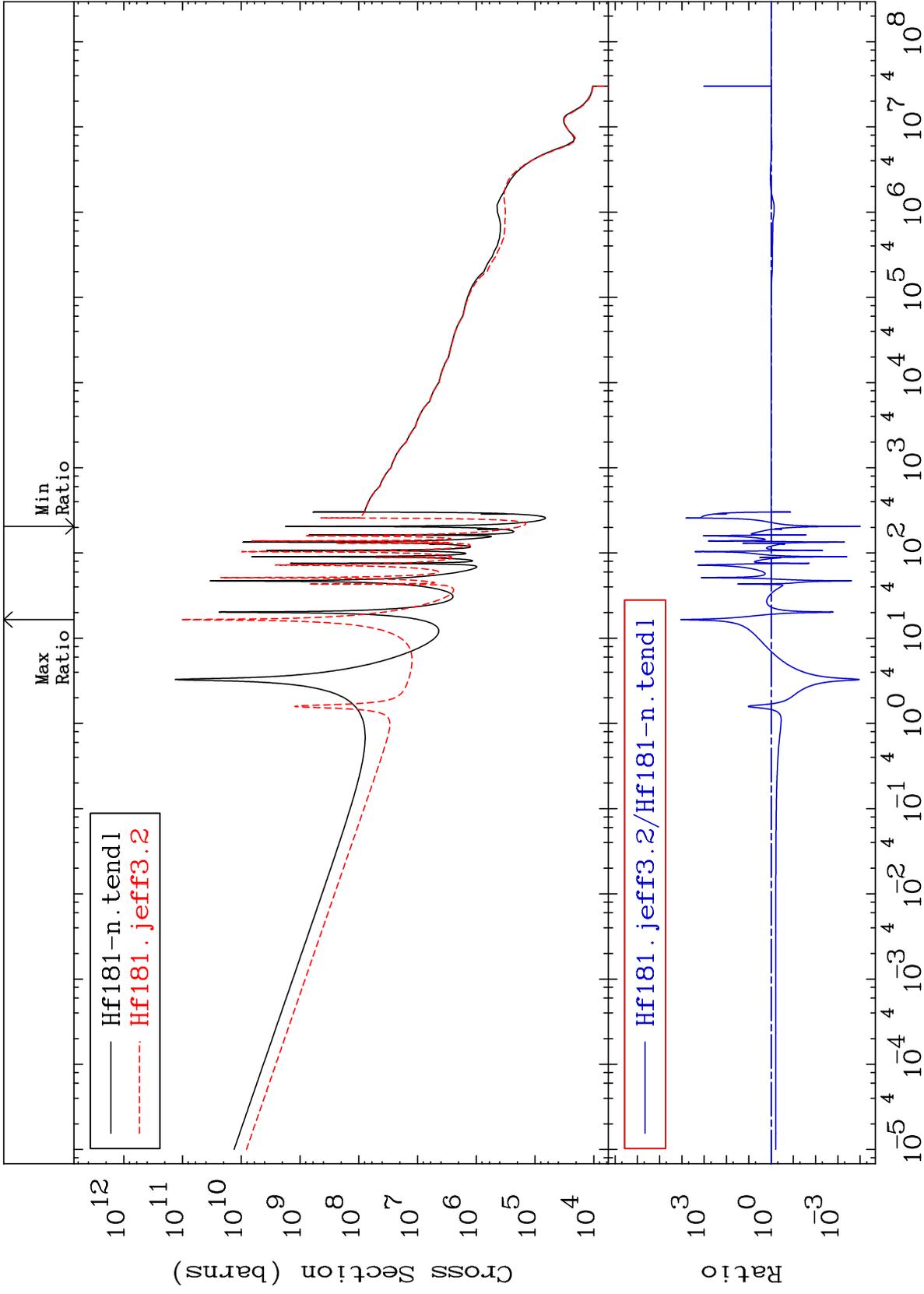


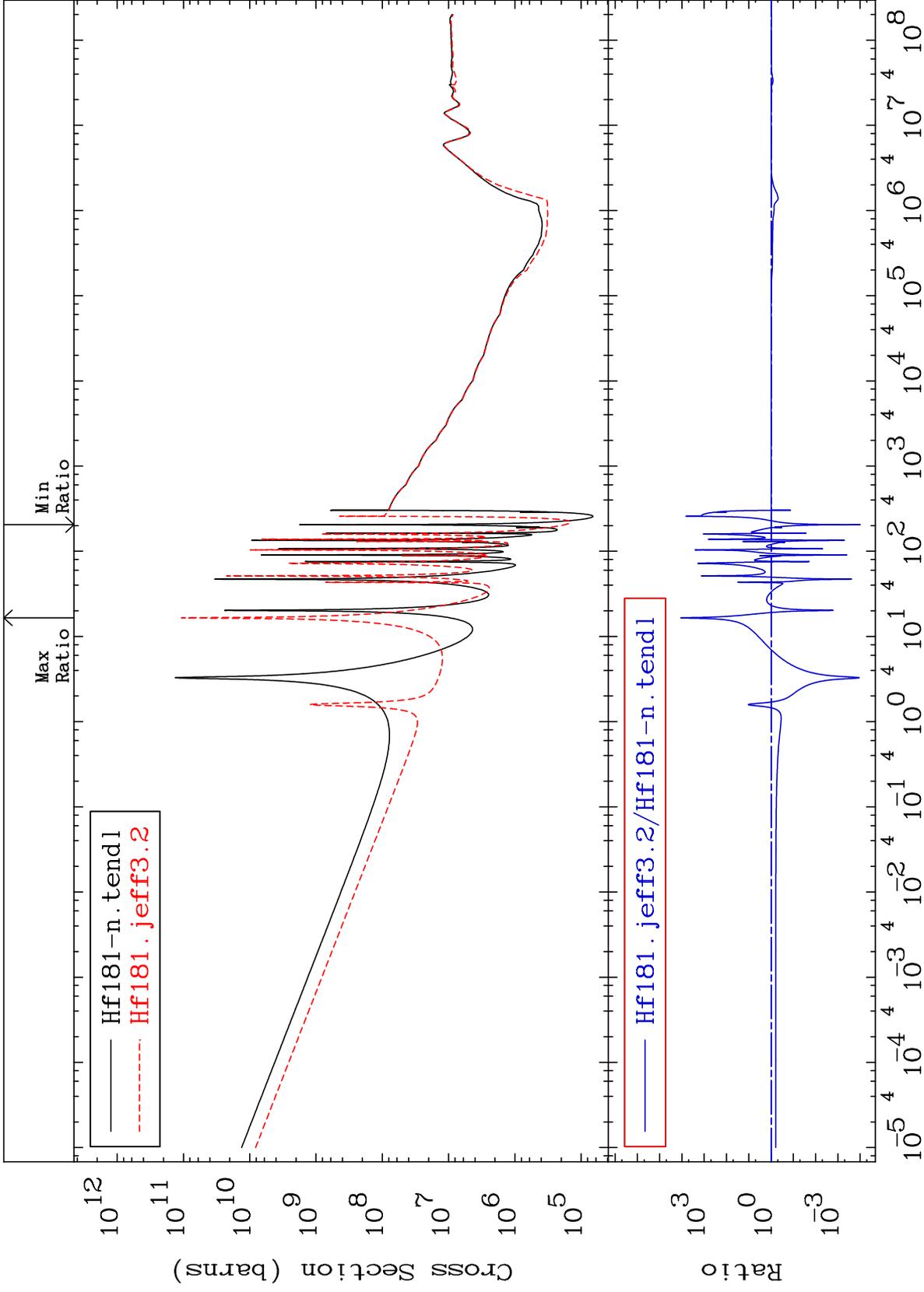
MAT 7246

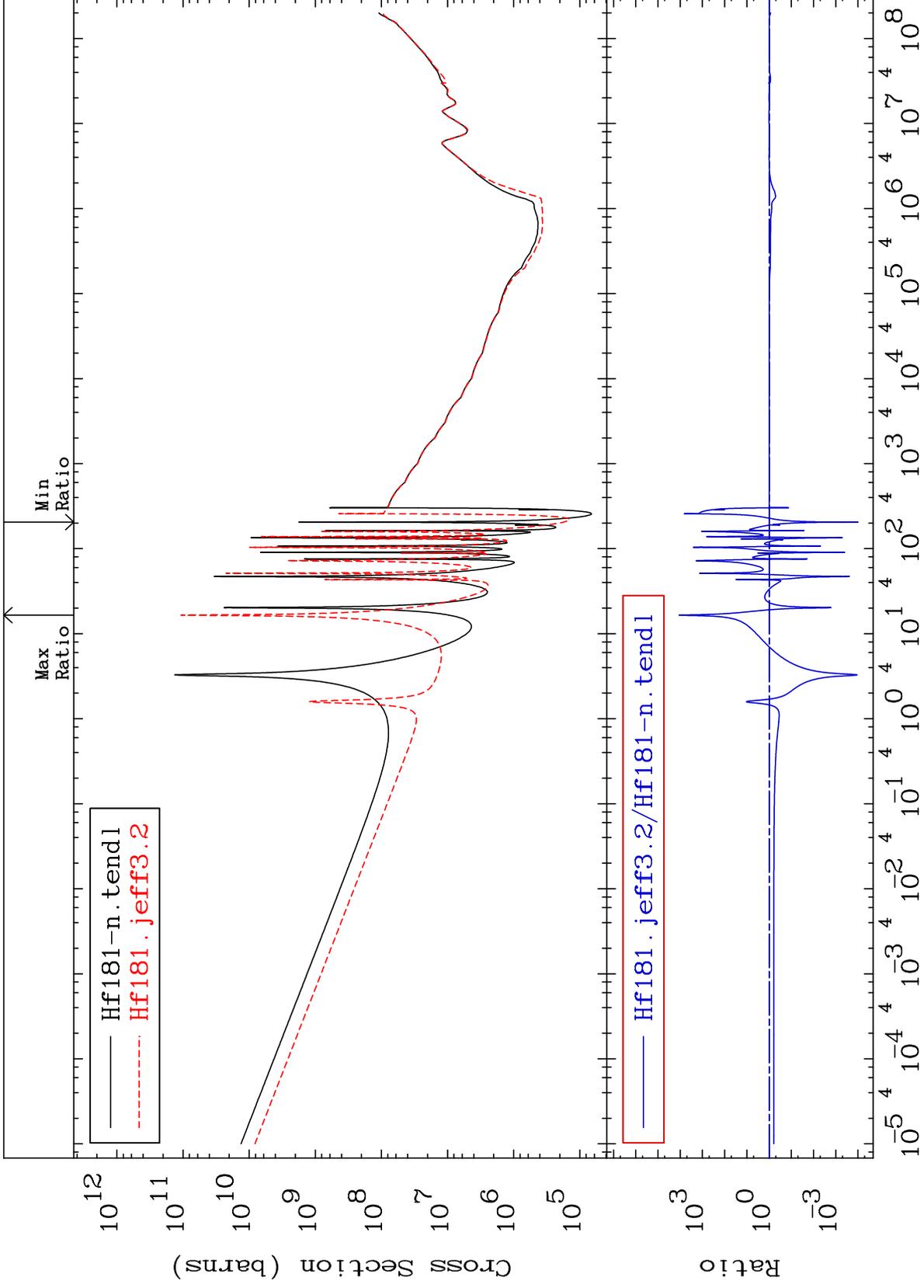
Kerma fission (mt18 or mt19-20-21-38)
Cross Section

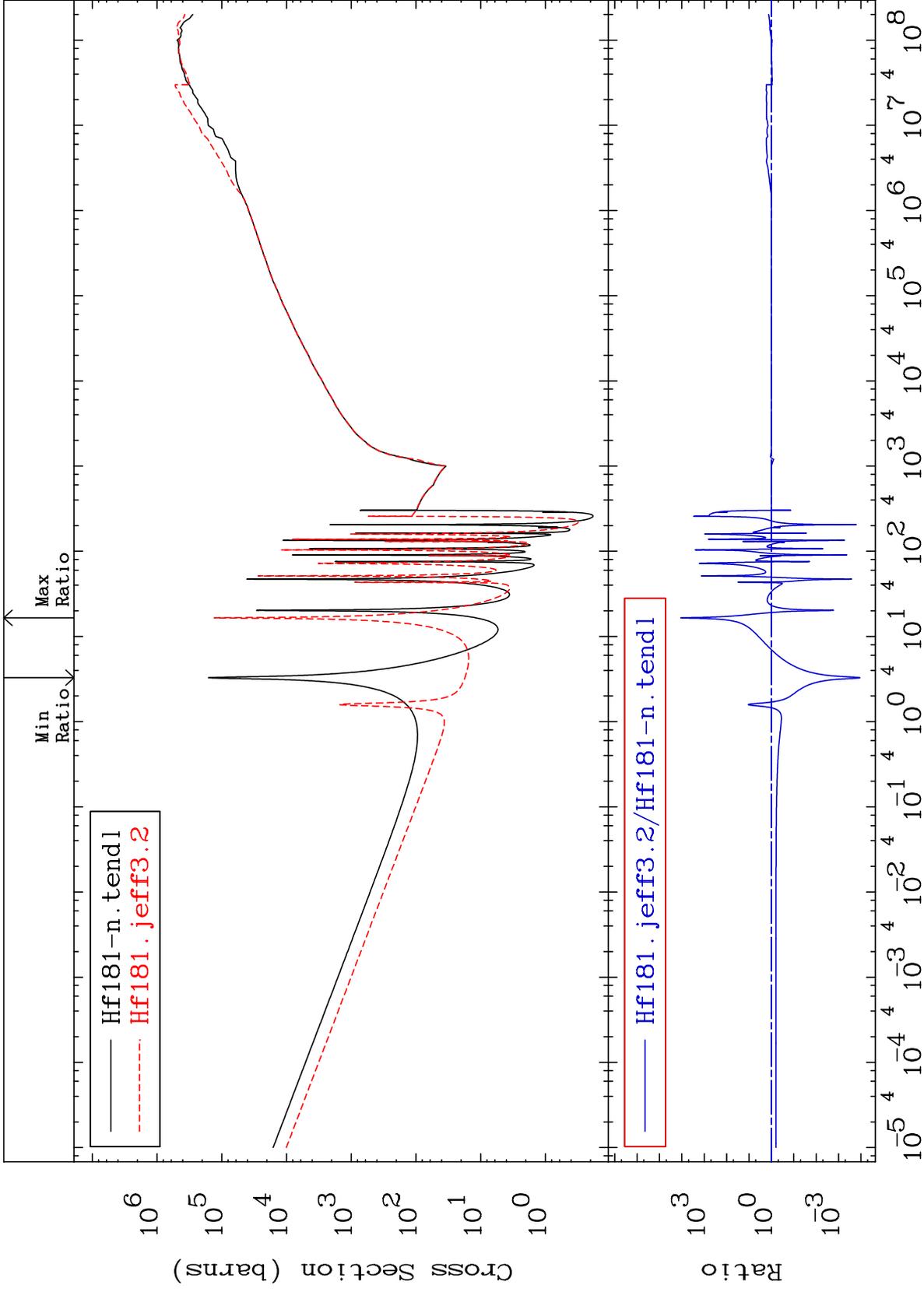
72-Hf-181
-11.24 To 20.59 %

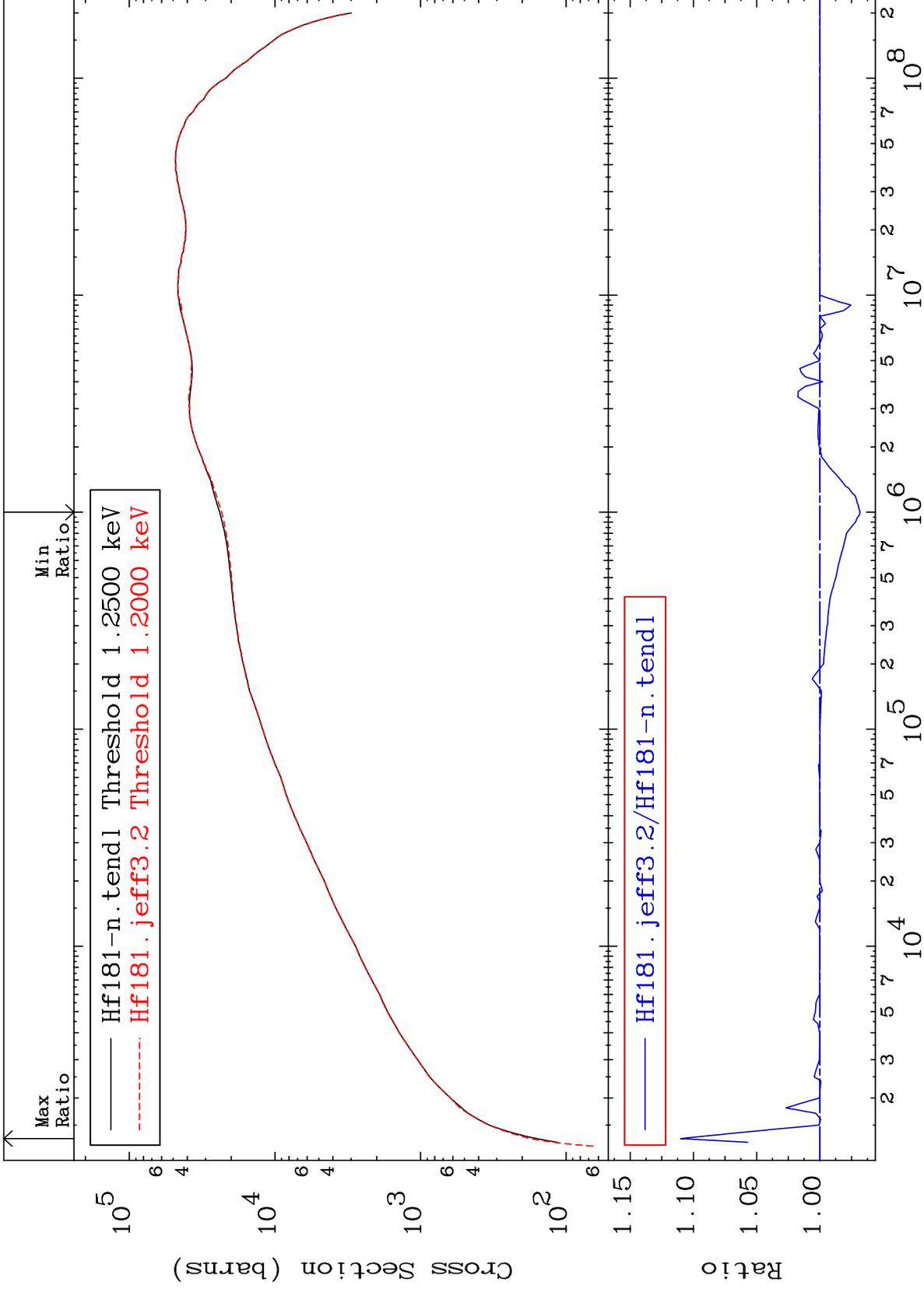








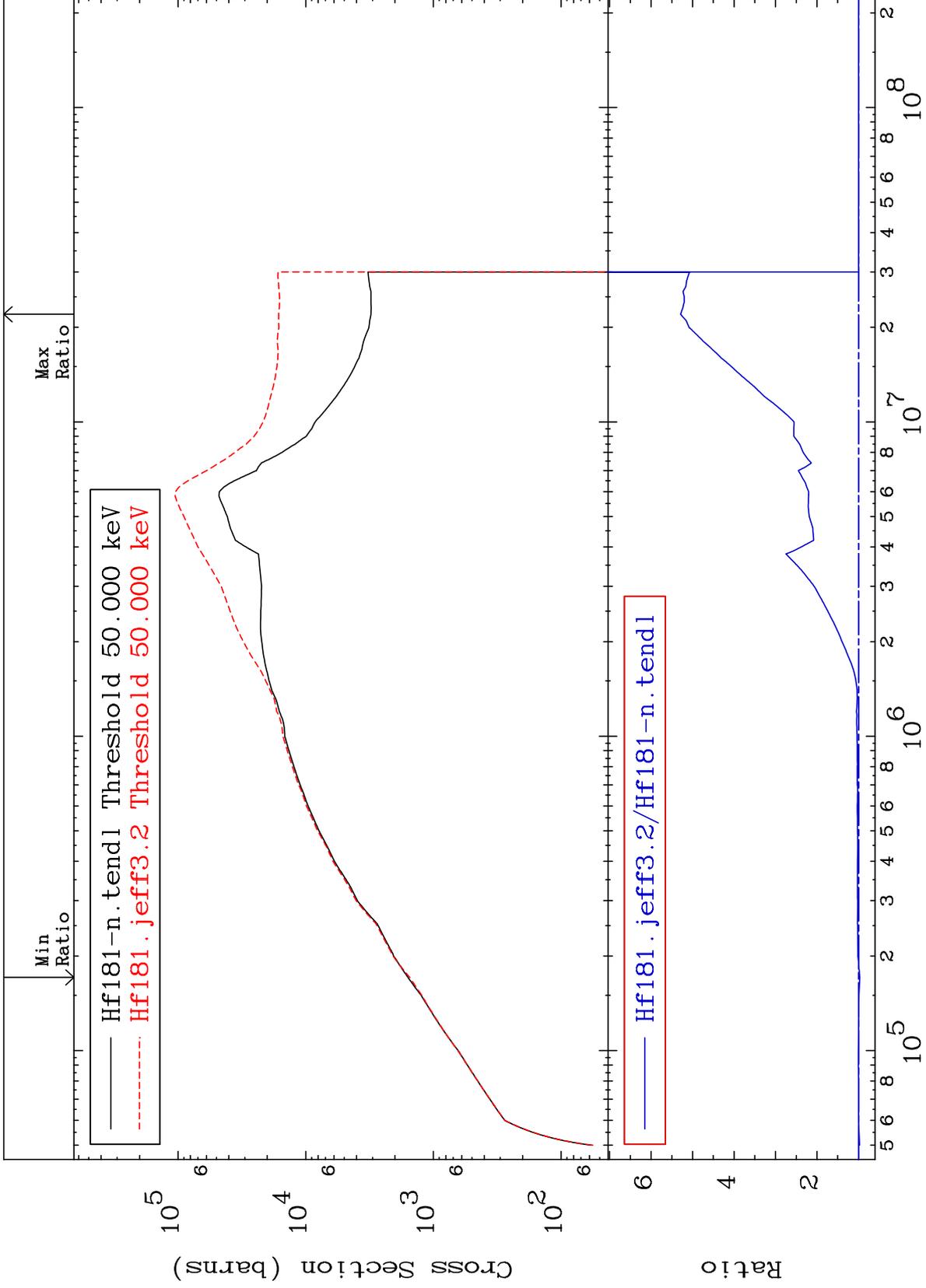




MAT 7246

Dpa inelastic (mt51-91)
Cross Section

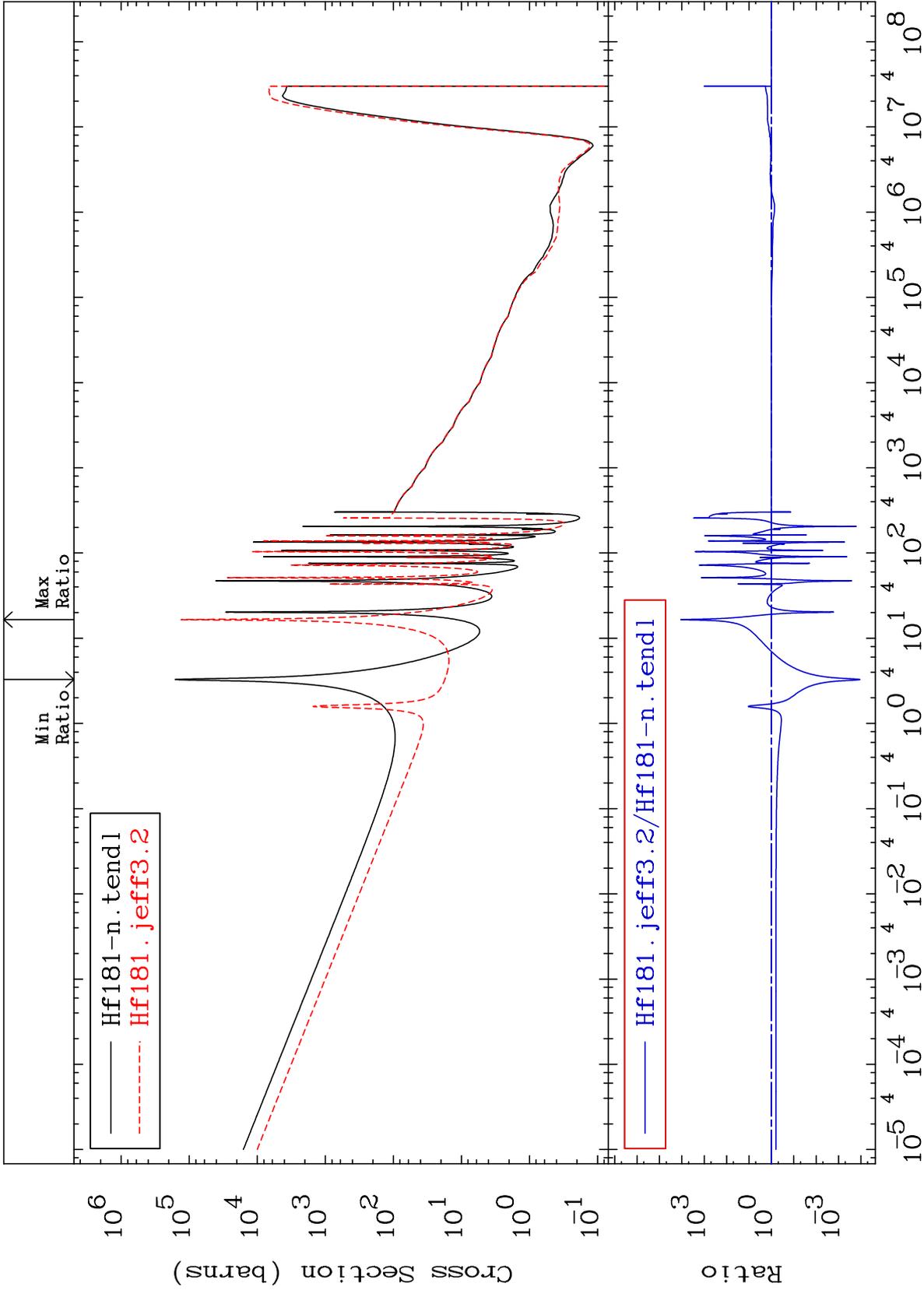
72-Hf-181
-3.141 To 429.0 %



70

Incident Energy (eV)

72-Hf-181

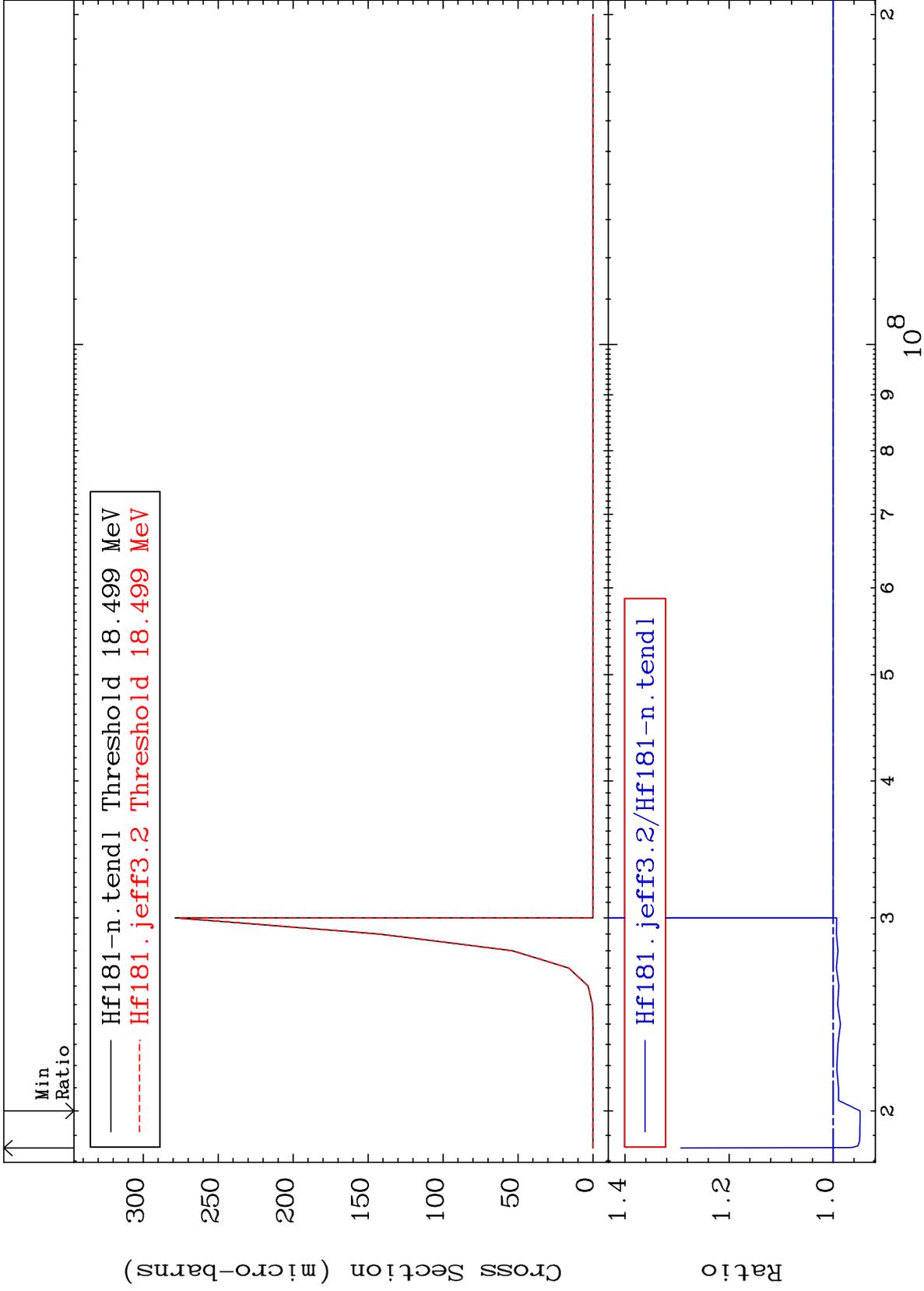


MAT 7246

(n,2n) d:71-Lu-178m3

72-Hf-181

Radionuclide Production Cross Section -5.164 To 29.29 %



73

Incident Energy (eV)

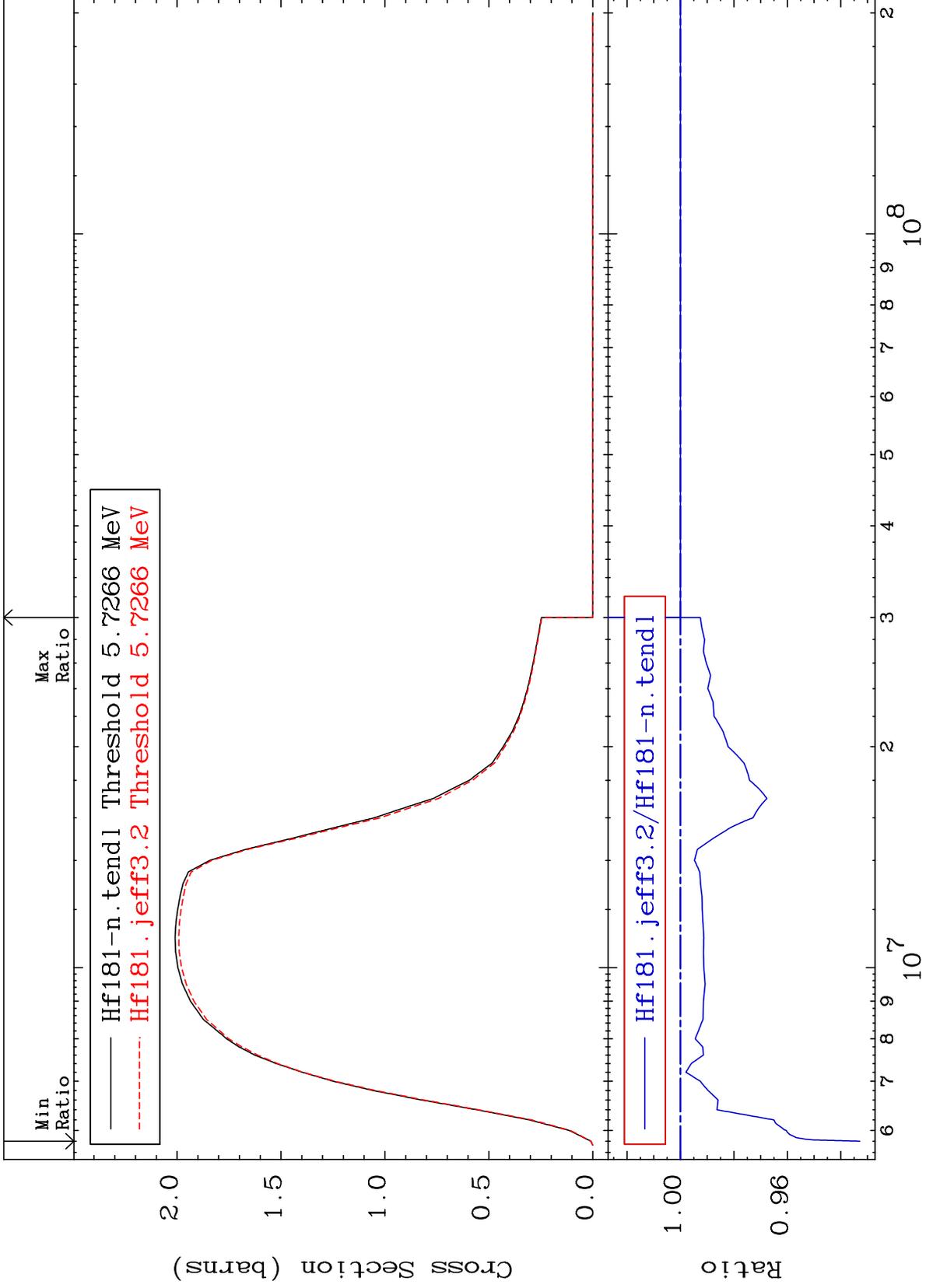
72-Hf-181

MAT 7246

(n,2n):72-Hf-180g

72-Hf-181

Radionuclide Production Cross Section -6.708 To 0.000 %



74

Incident Energy (eV)

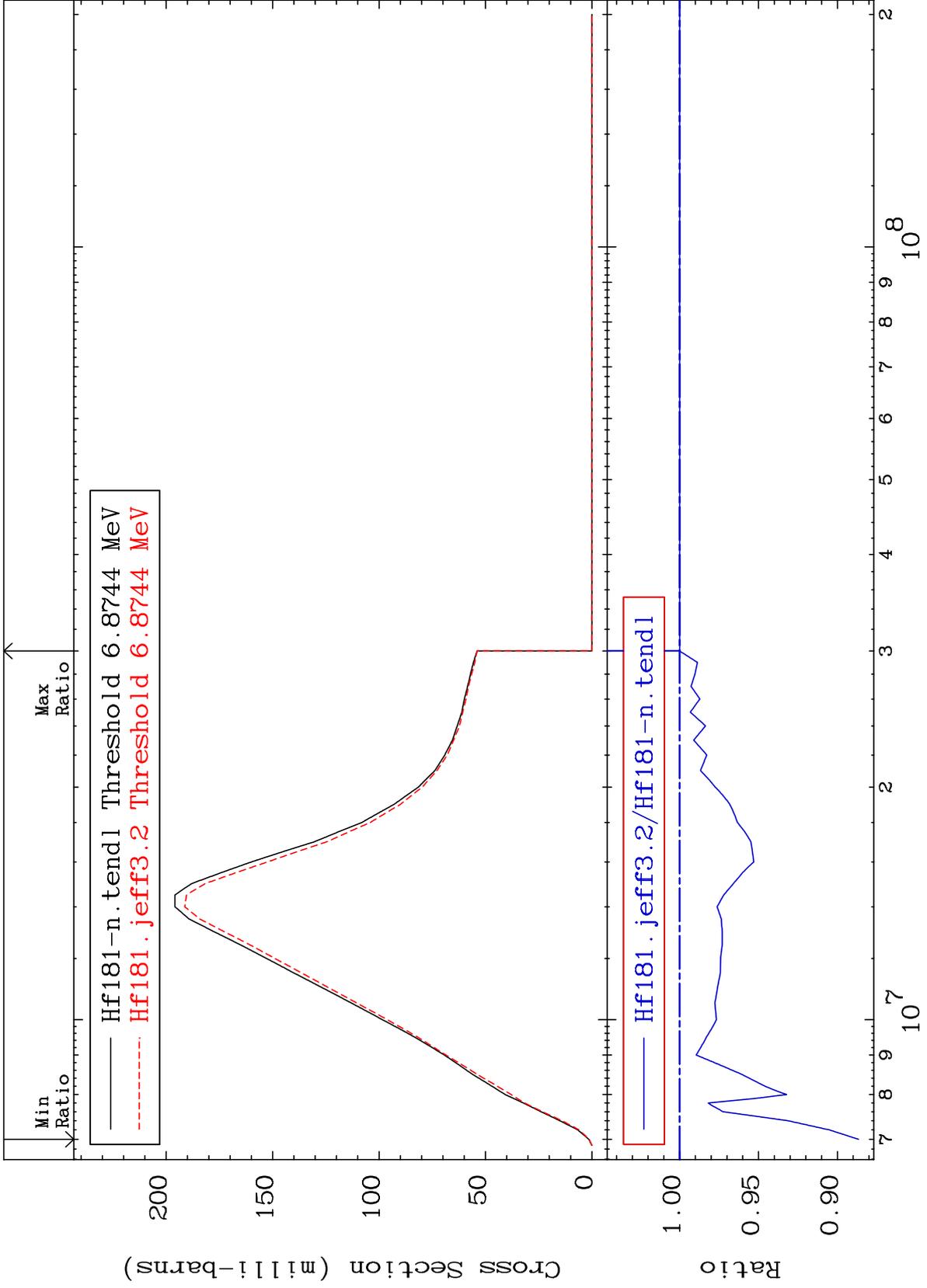
72-Hf-181

MAT 7246

(n,2n):72-Hf-180m7

72-Hf-181

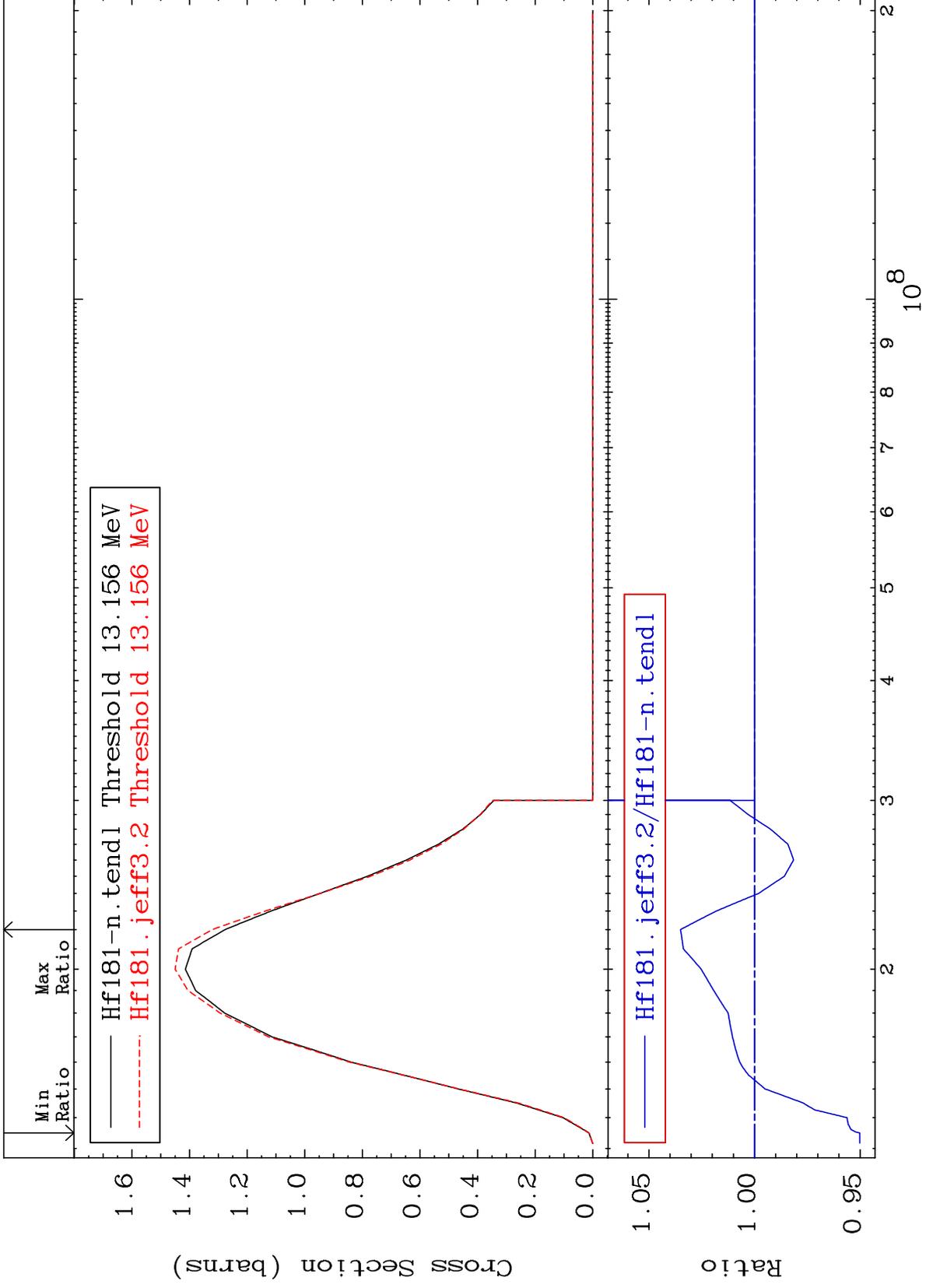
Radionuclide Production Cross Section -11.34 To 0.006 %



75

Incident Energy (eV)

72-Hf-181

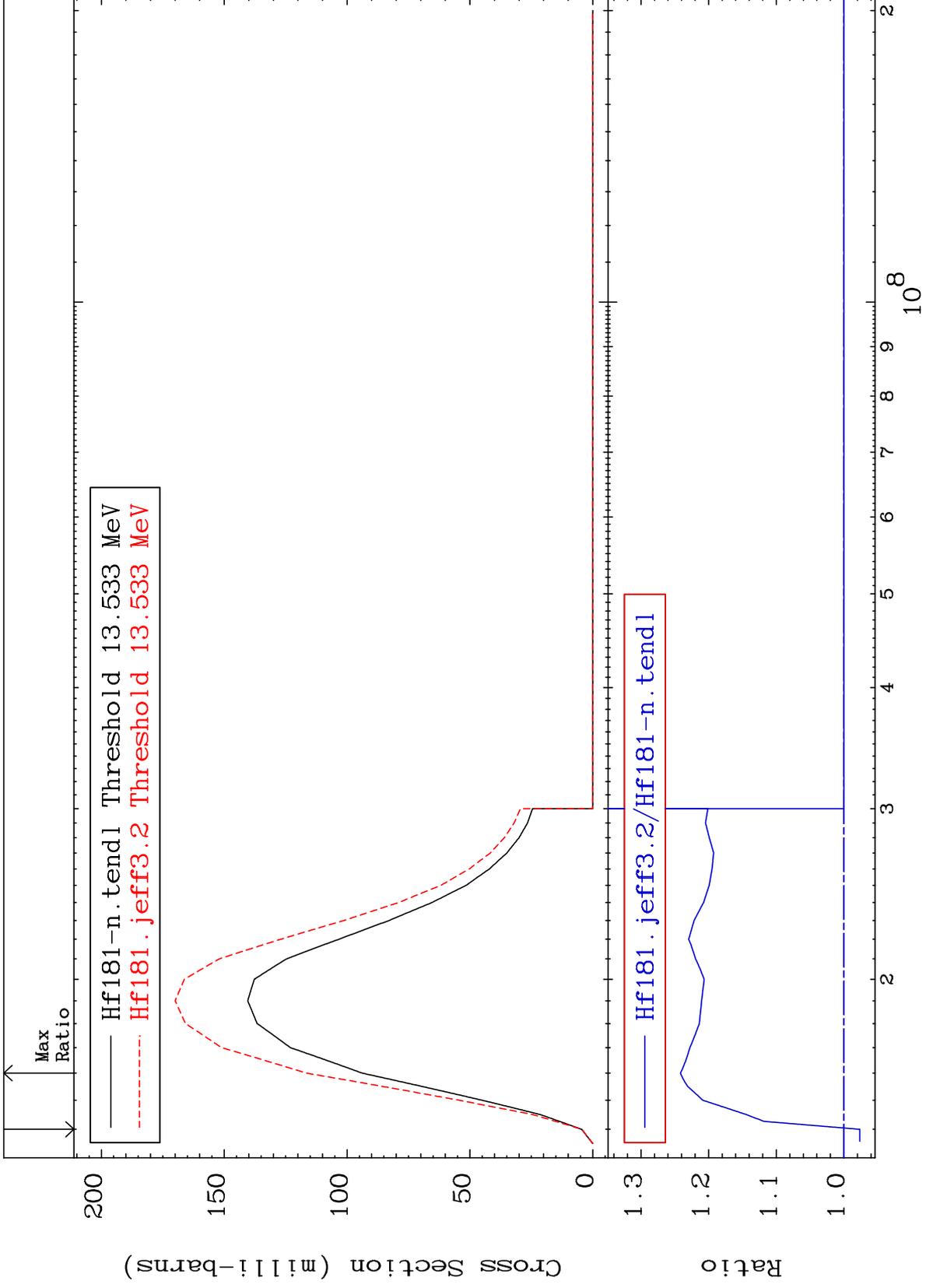


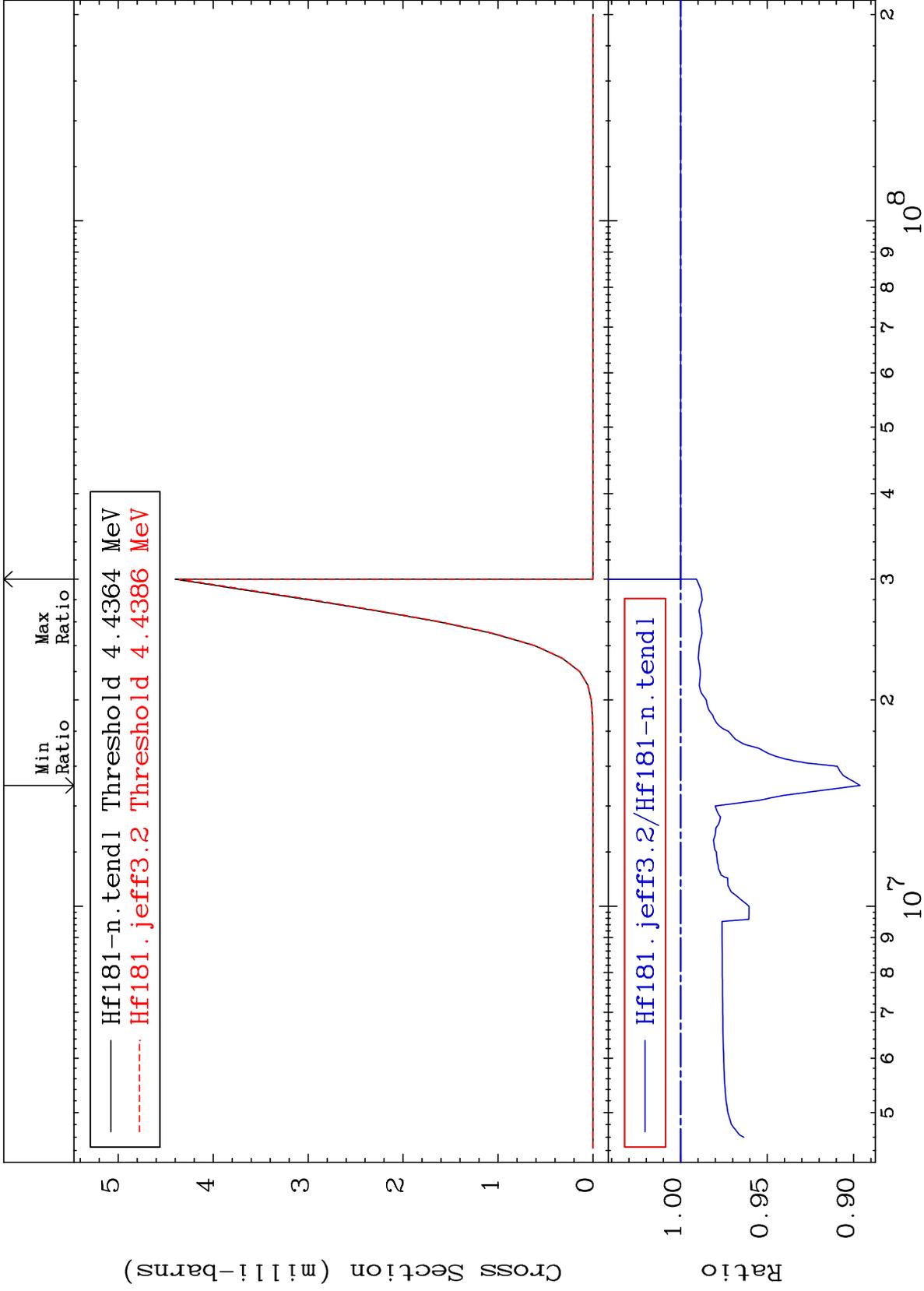
MAT 7246

(n, 3n) : 72-Hf-179m5

72-Hf-181

Radionuclide Production Cross Section -2.346 To 24.15 %



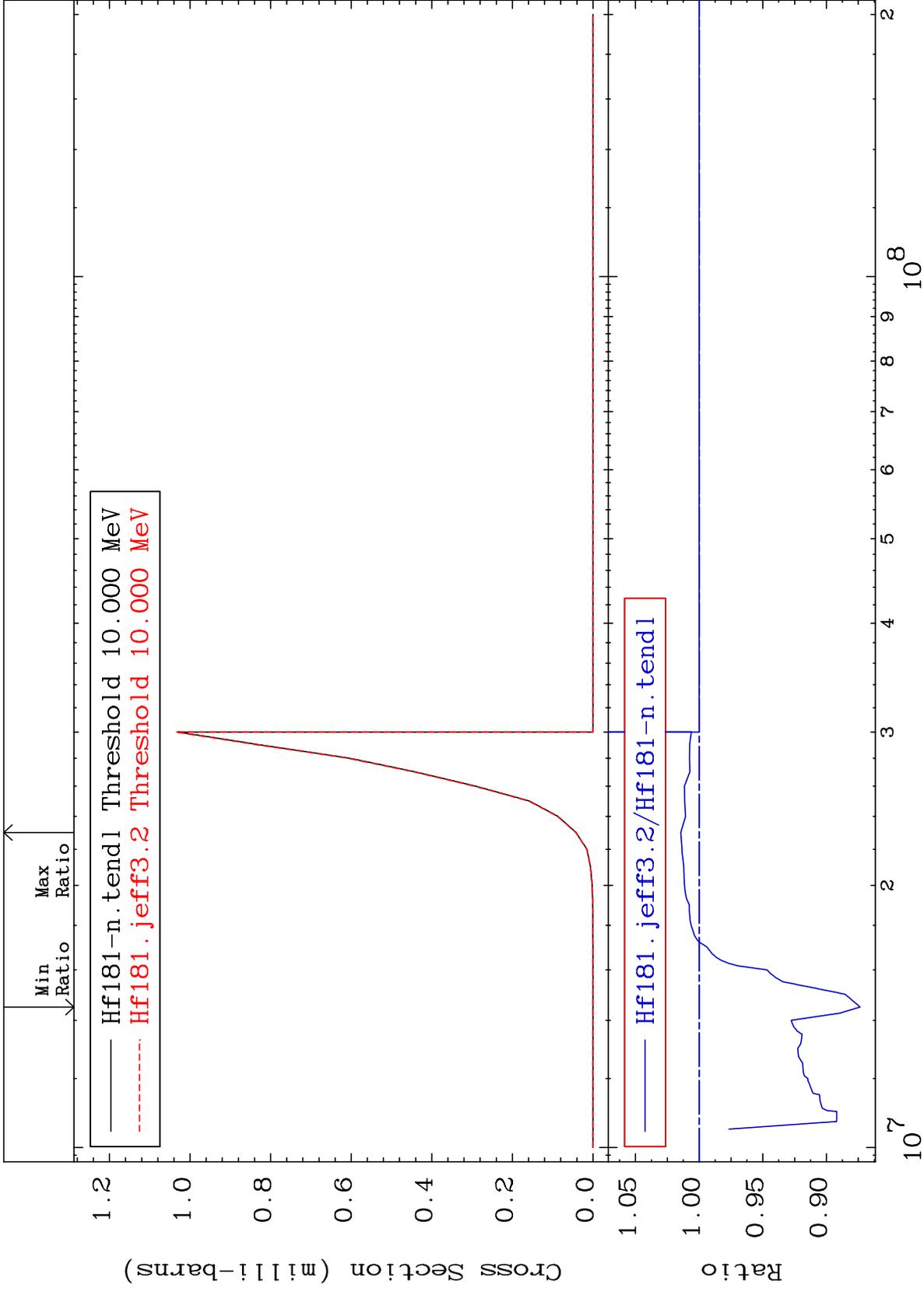


MAT 7246

(n,2n) α : 70-Yb-176m5

72-Hf-181

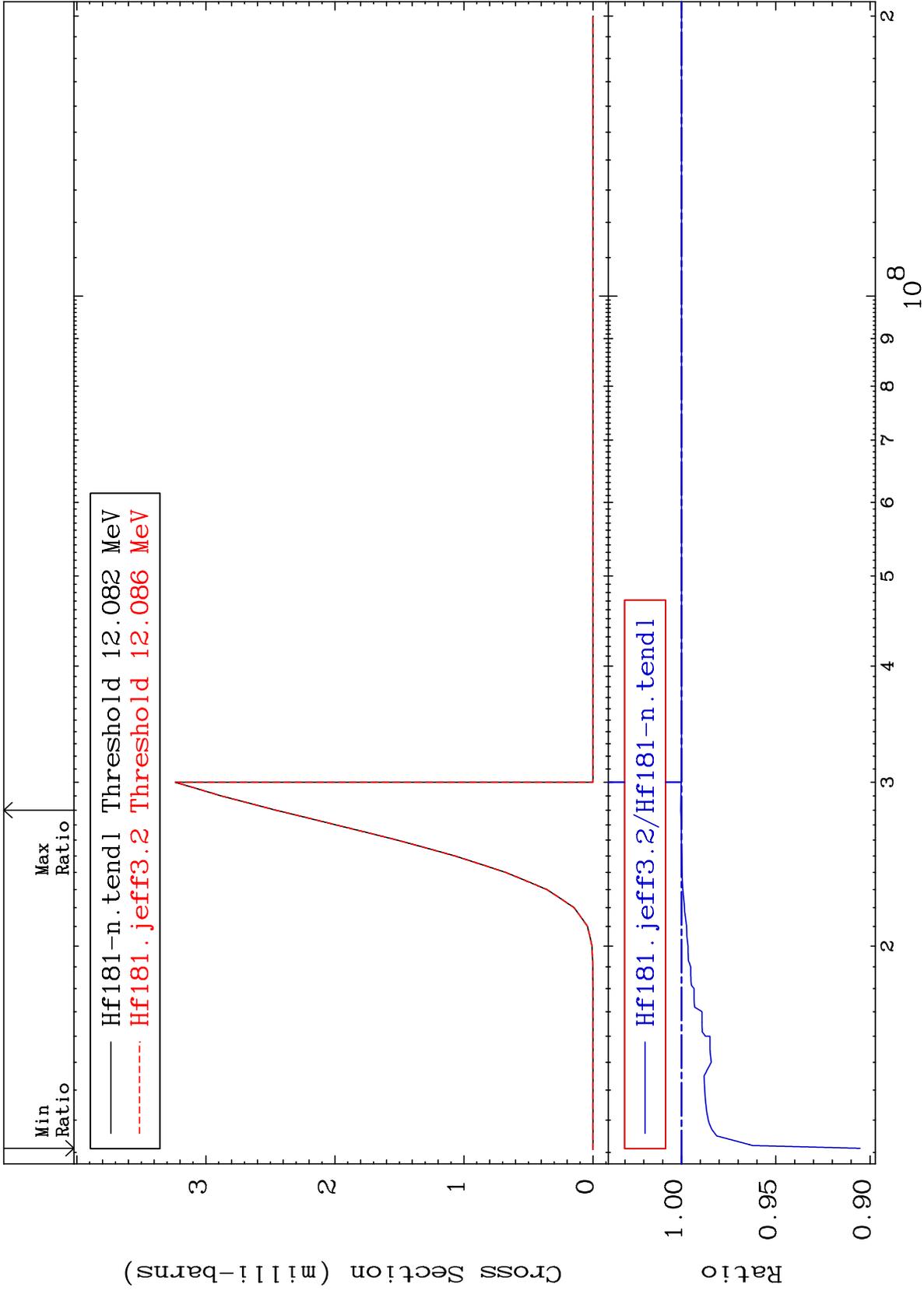
Radionuclide Production Cross Section -12.64 To 1.445 %



79

Incident Energy (eV)

72-Hf-181

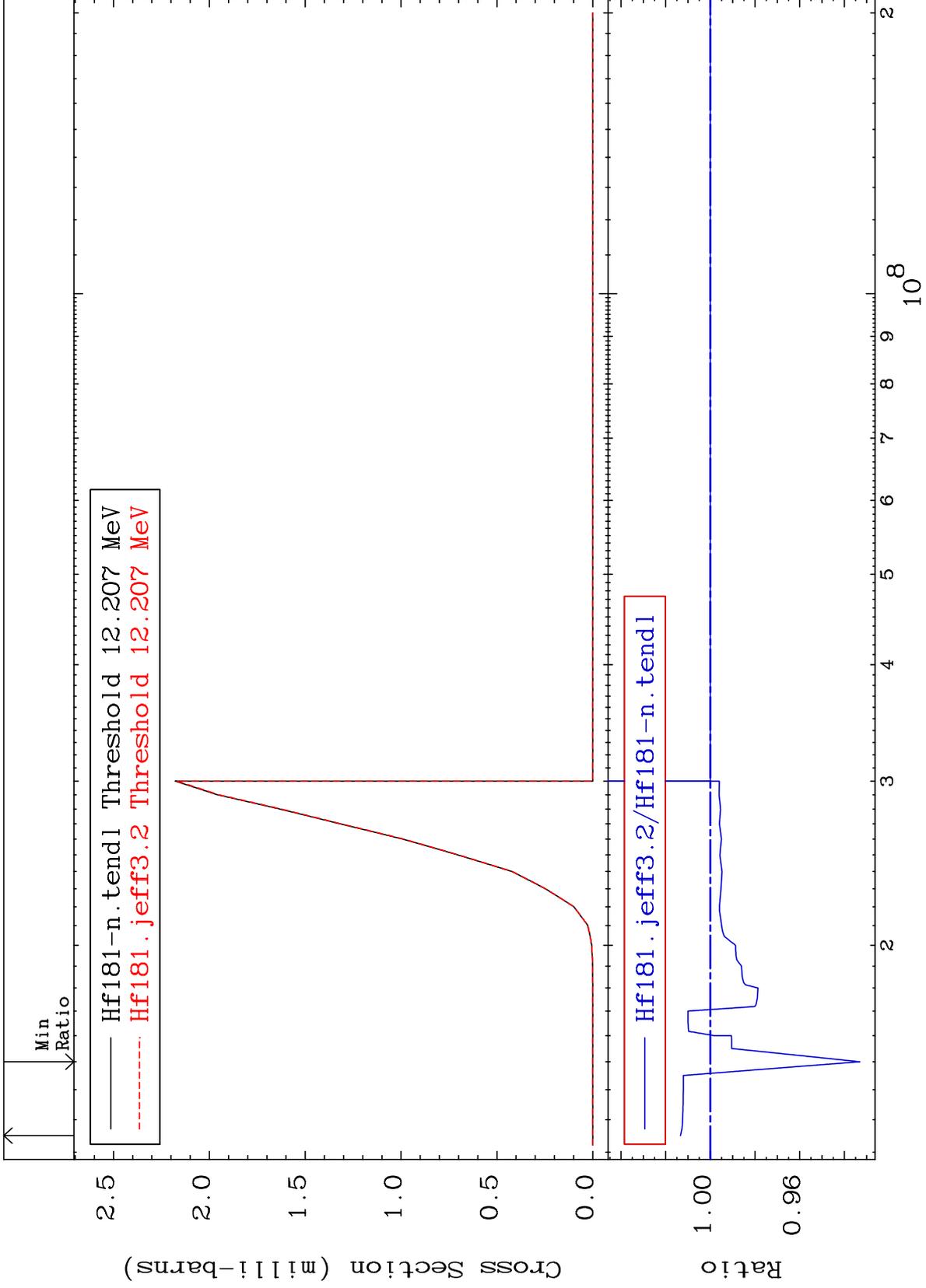


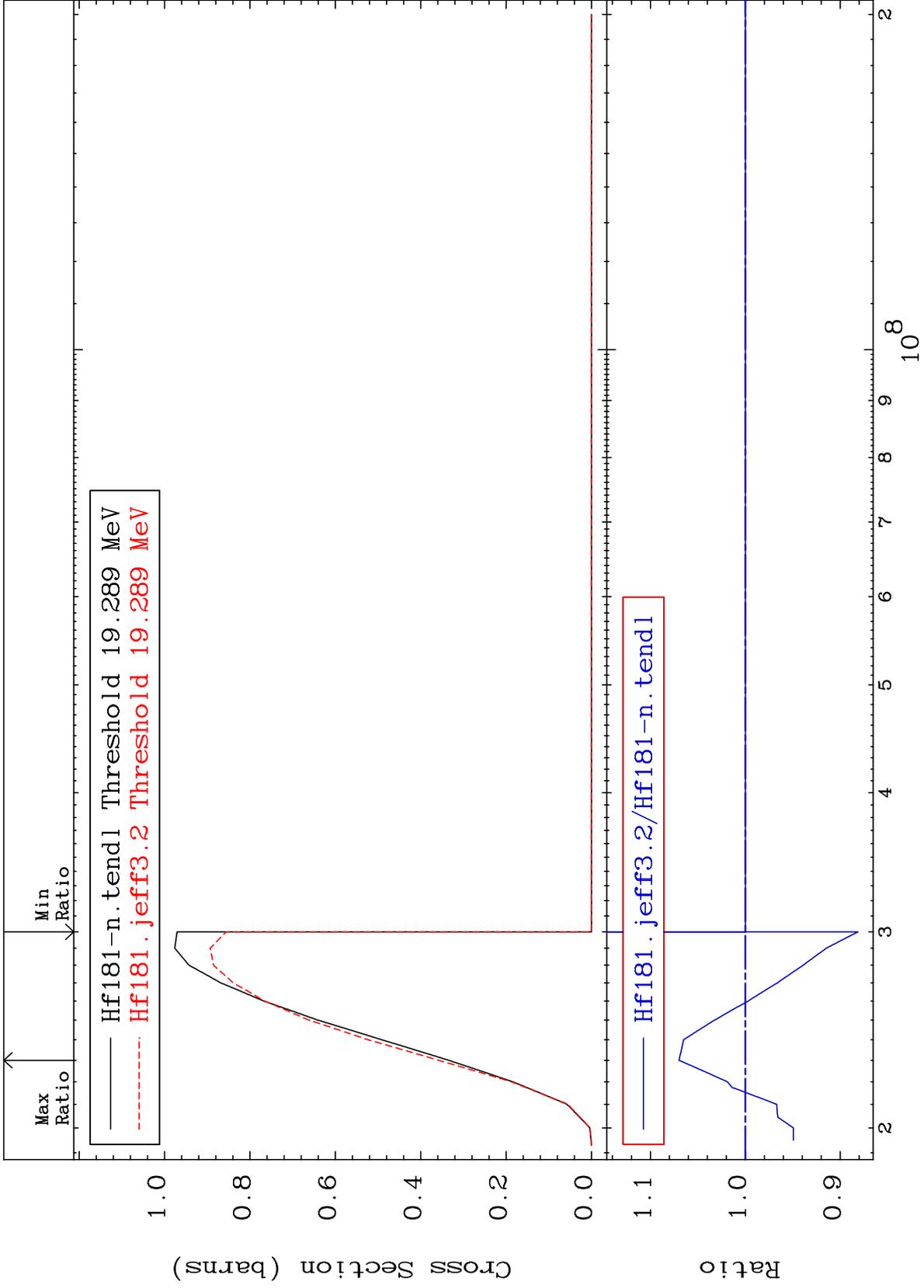
MAT 7246

(n, n') t: 71-Lu-178m3

72-Hf-181

Radionuclide Production Cross Section -6.689 To 1.336 %



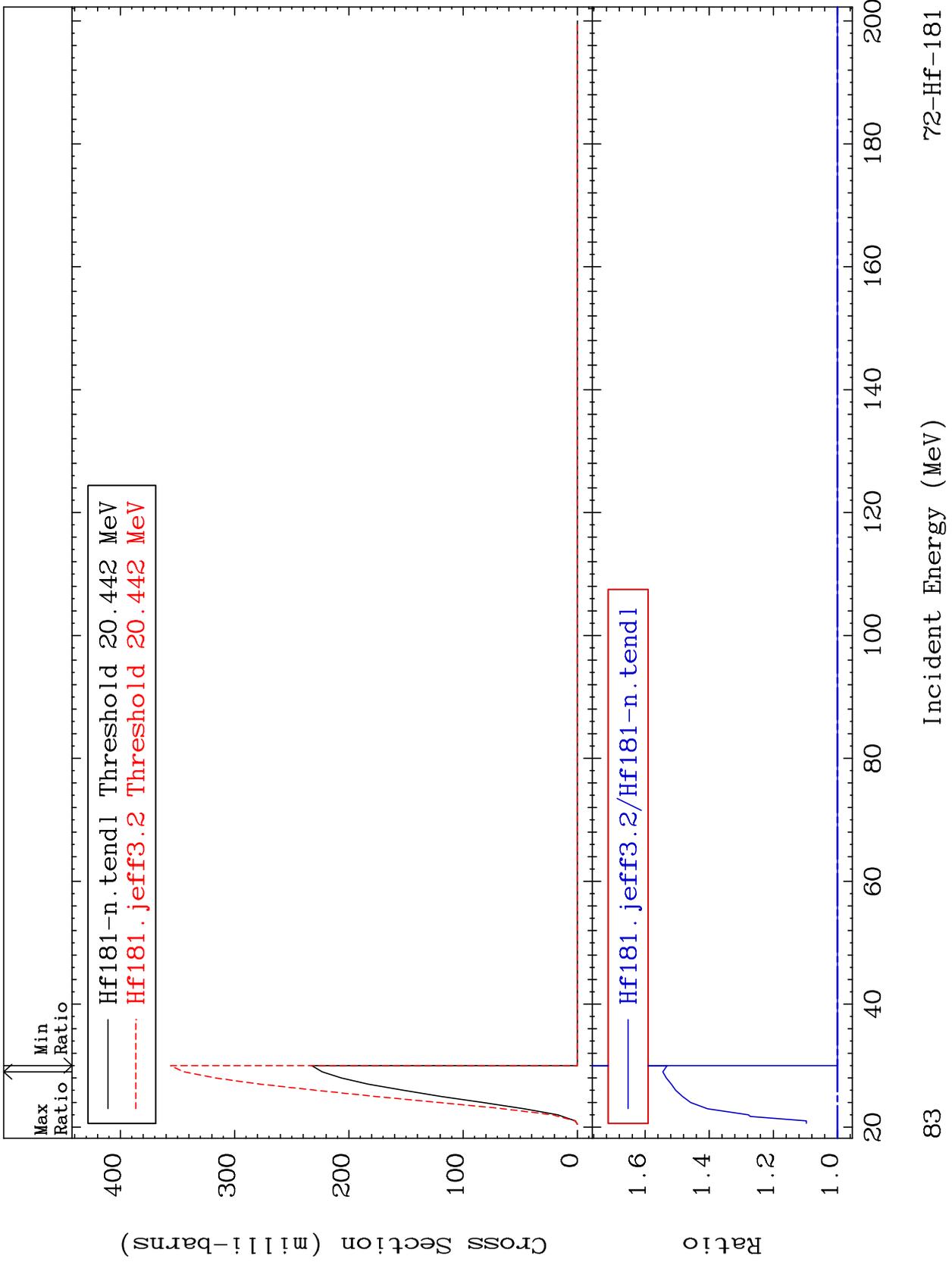


MAT 7246

(n, 4n):72-Hf-178m5

72-Hf-181

Radionuclide Production Cross Section 0.000 To 54.45 %

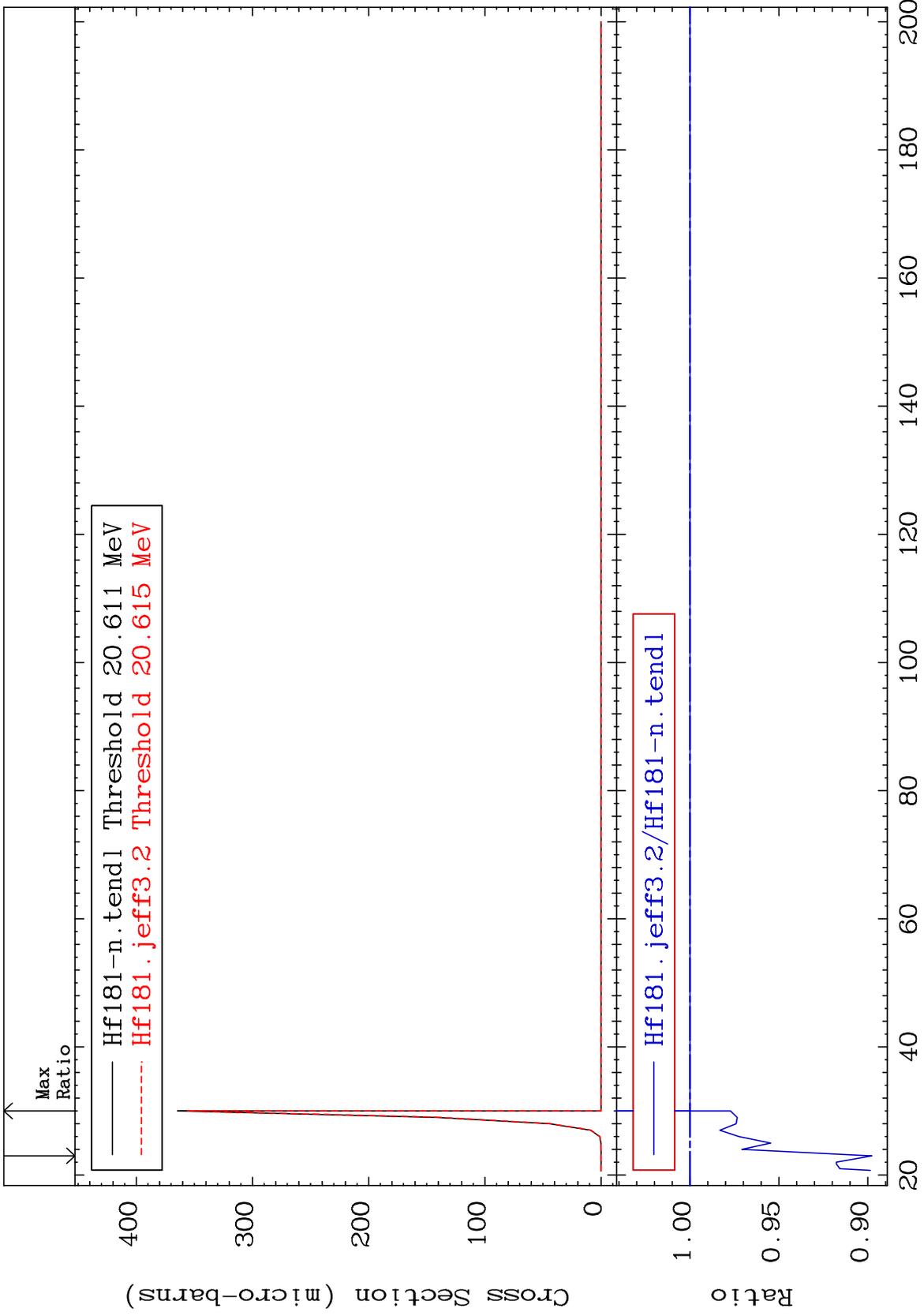


MAT 7246

(n,3n) p:71-Lu-178g

72-Hf-181

Radionuclide Production Cross Section -10.23 To 0.000 %

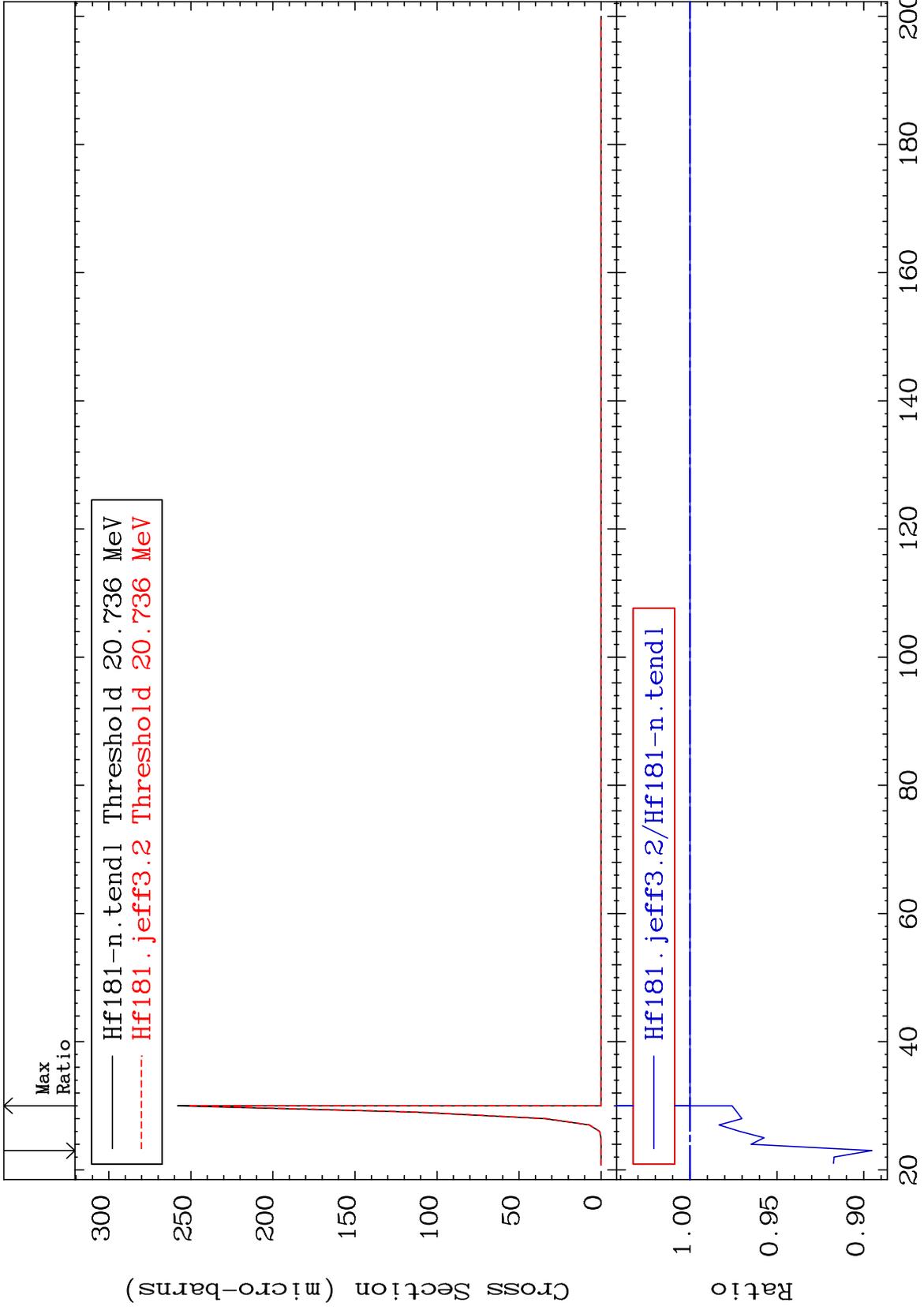


MAT 7246

(n,3n) p:71-Lu-178m3

72-Hf-181

Radionuclide Production Cross Section -10.47 To 0.000 %



85

Incident Energy (MeV)

72-Hf-181