

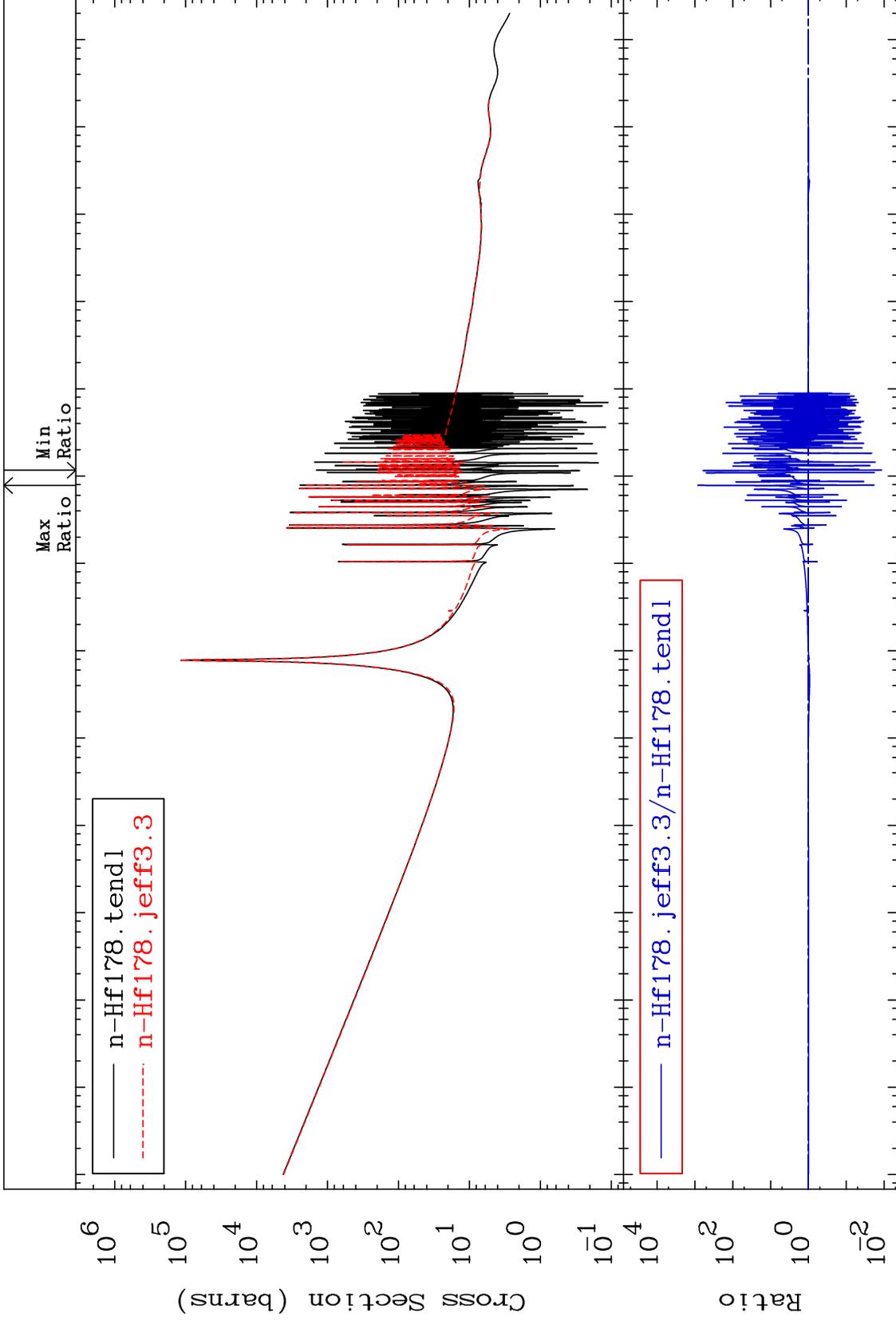
MAT 7237

Total

72-Hf-178

Cross Section

-98.83 To 9999. %



Incident Energy (eV)

72-Hf-178

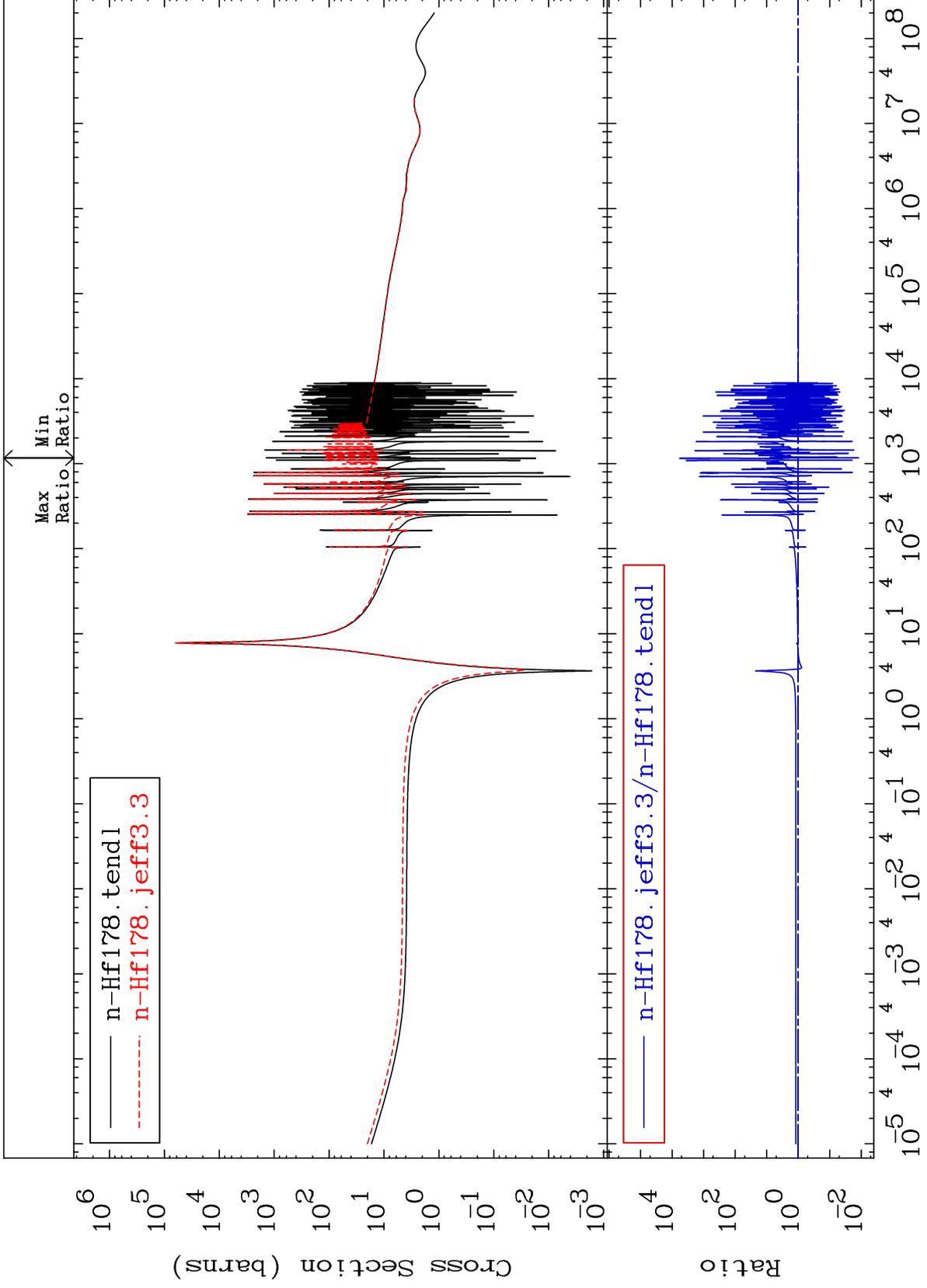
MAT 7237

Elastic

Cross Section

72-Hf-178

-98.78 To 9999. %



2

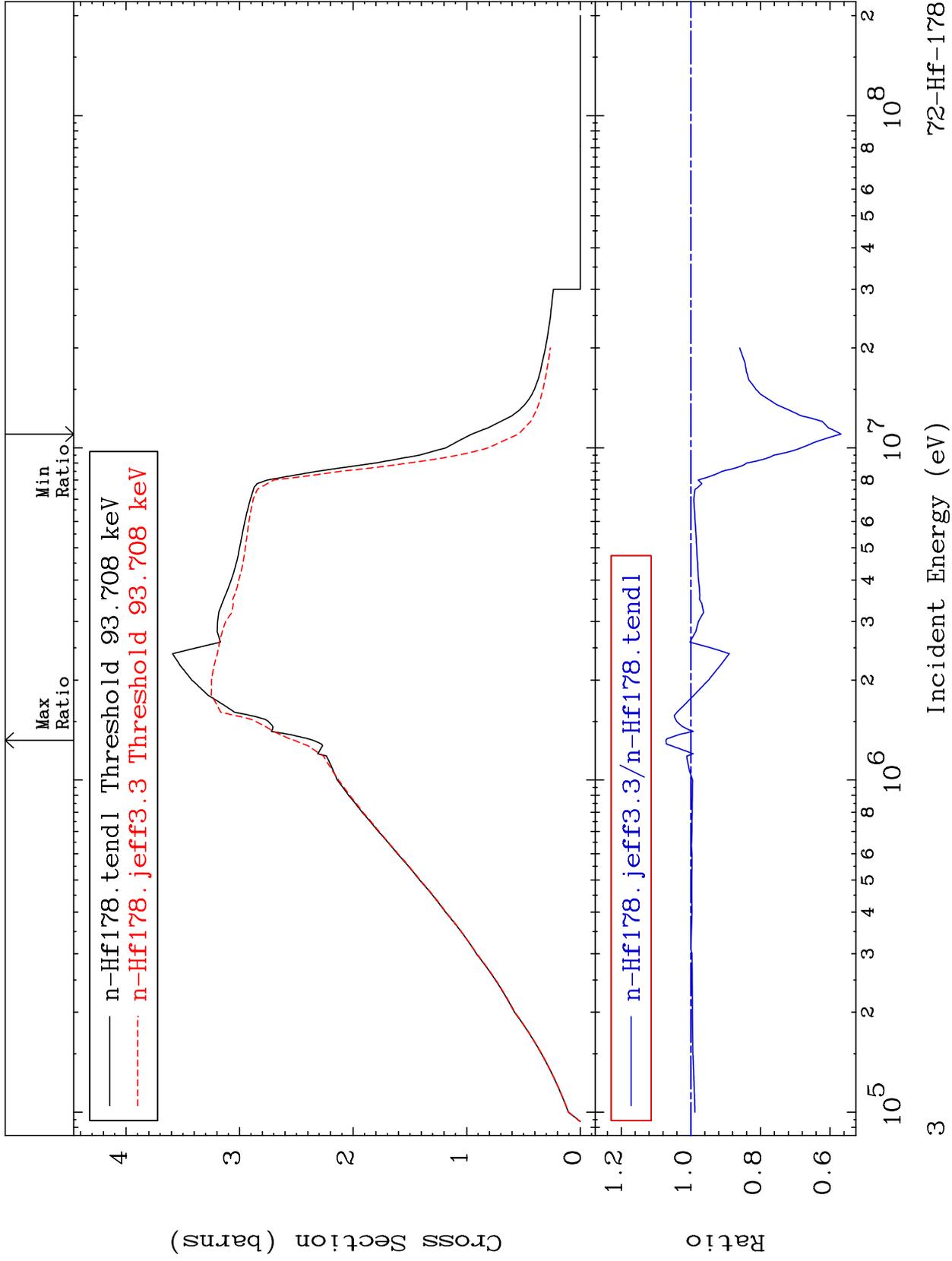
Incident Energy (eV)

72-Hf-178

MAT 7237

Inelastic
Cross Section

72-Hf-178
-43.14 To 7.153 %



72-Hf-178

Incident Energy (eV)

3

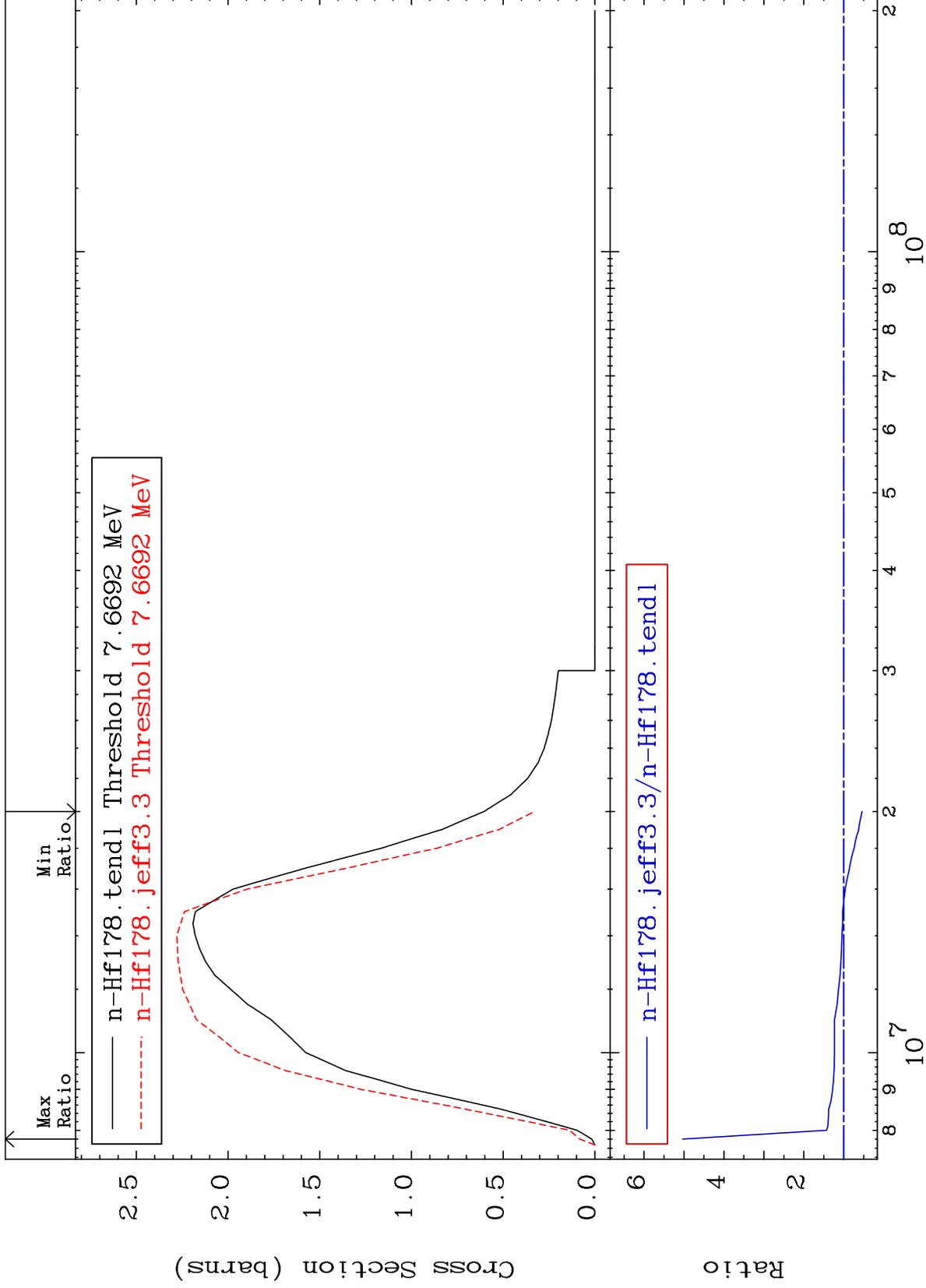
MAT 7237

(n,2n)

72-Hf-178

Cross Section

-45.81 To 403.3 %



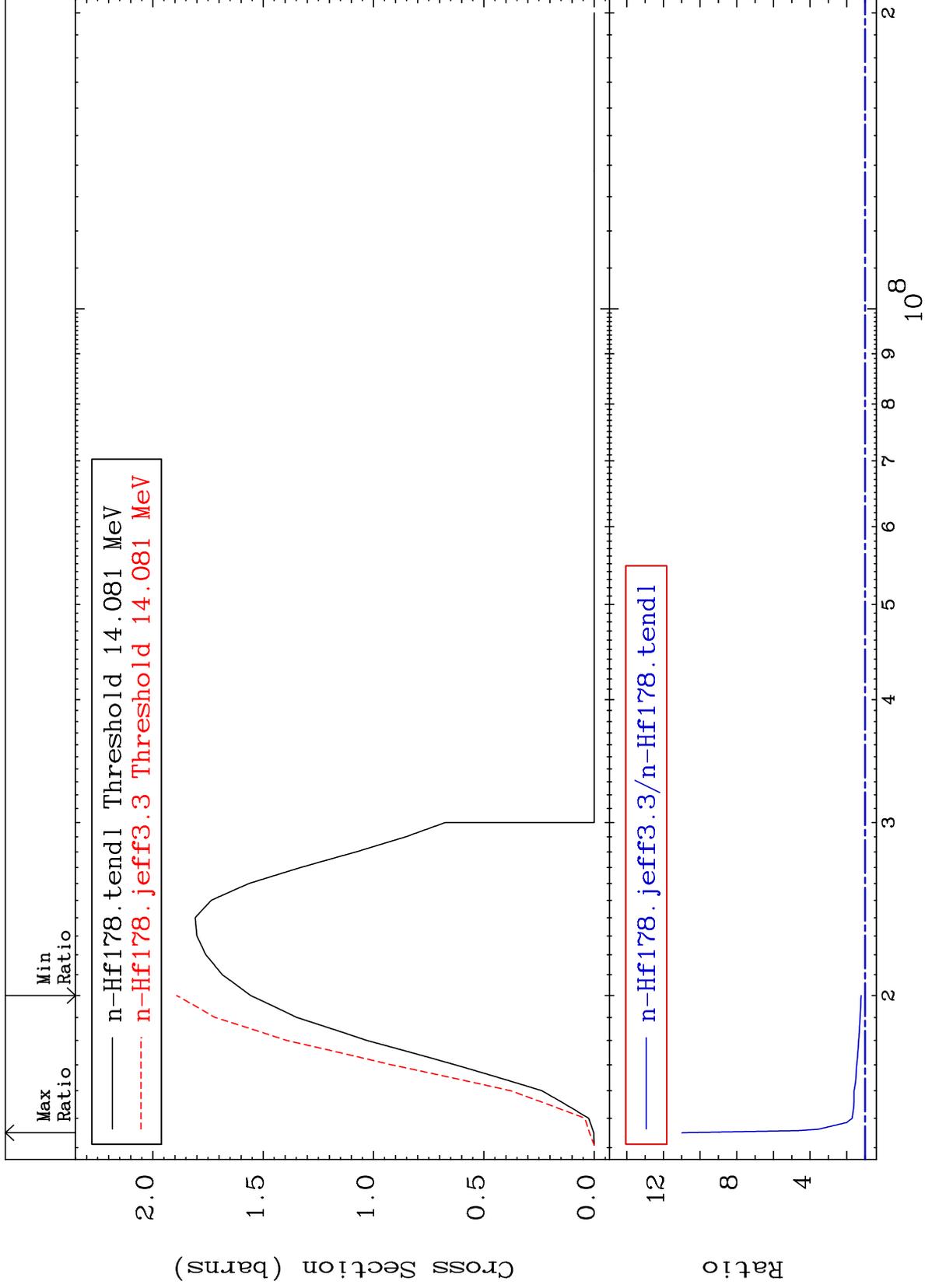
Incident Energy (eV)

72-Hf-178

4

Cross Section

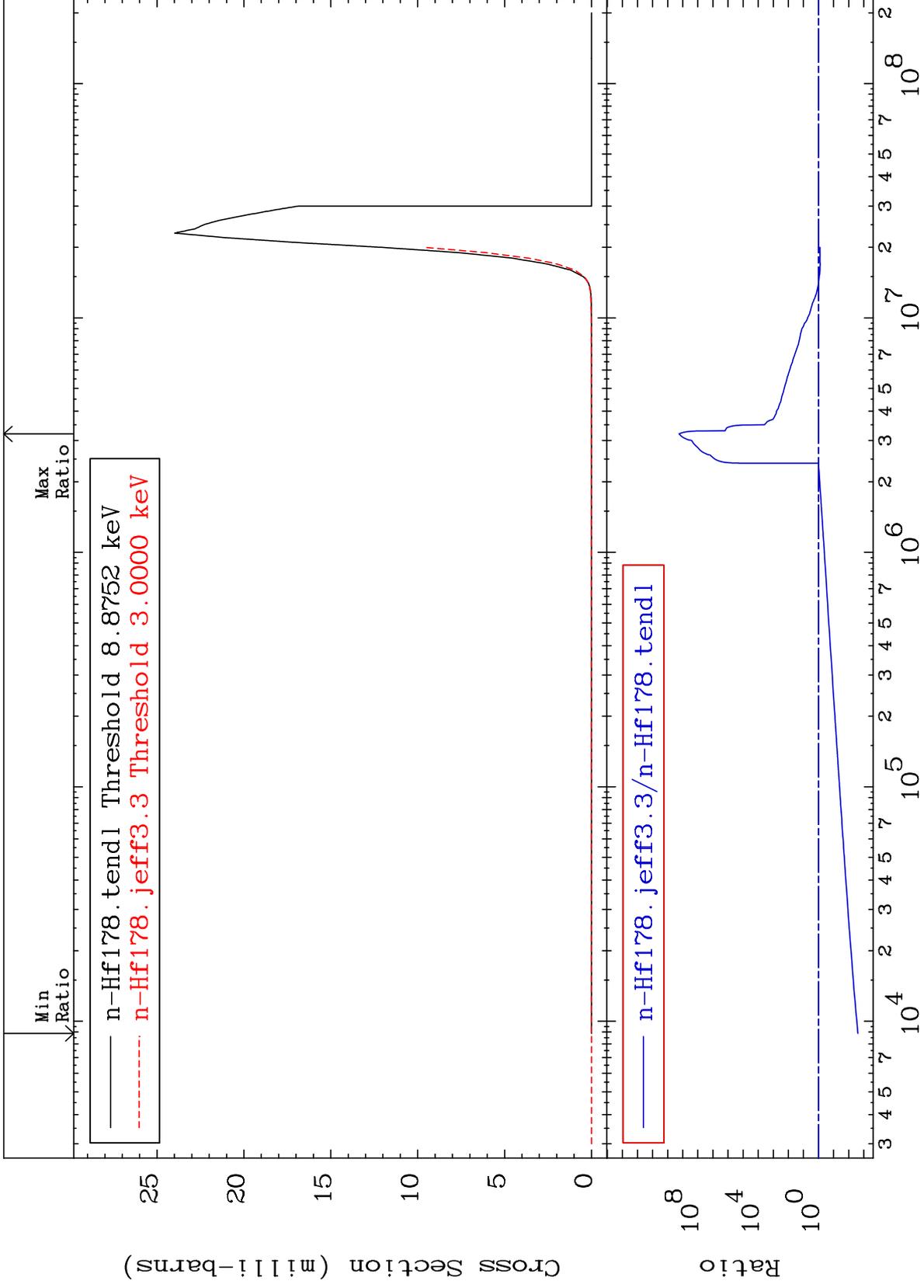
21.53 To 999.1 %



MAT 7237

(n, n') α
Cross Section

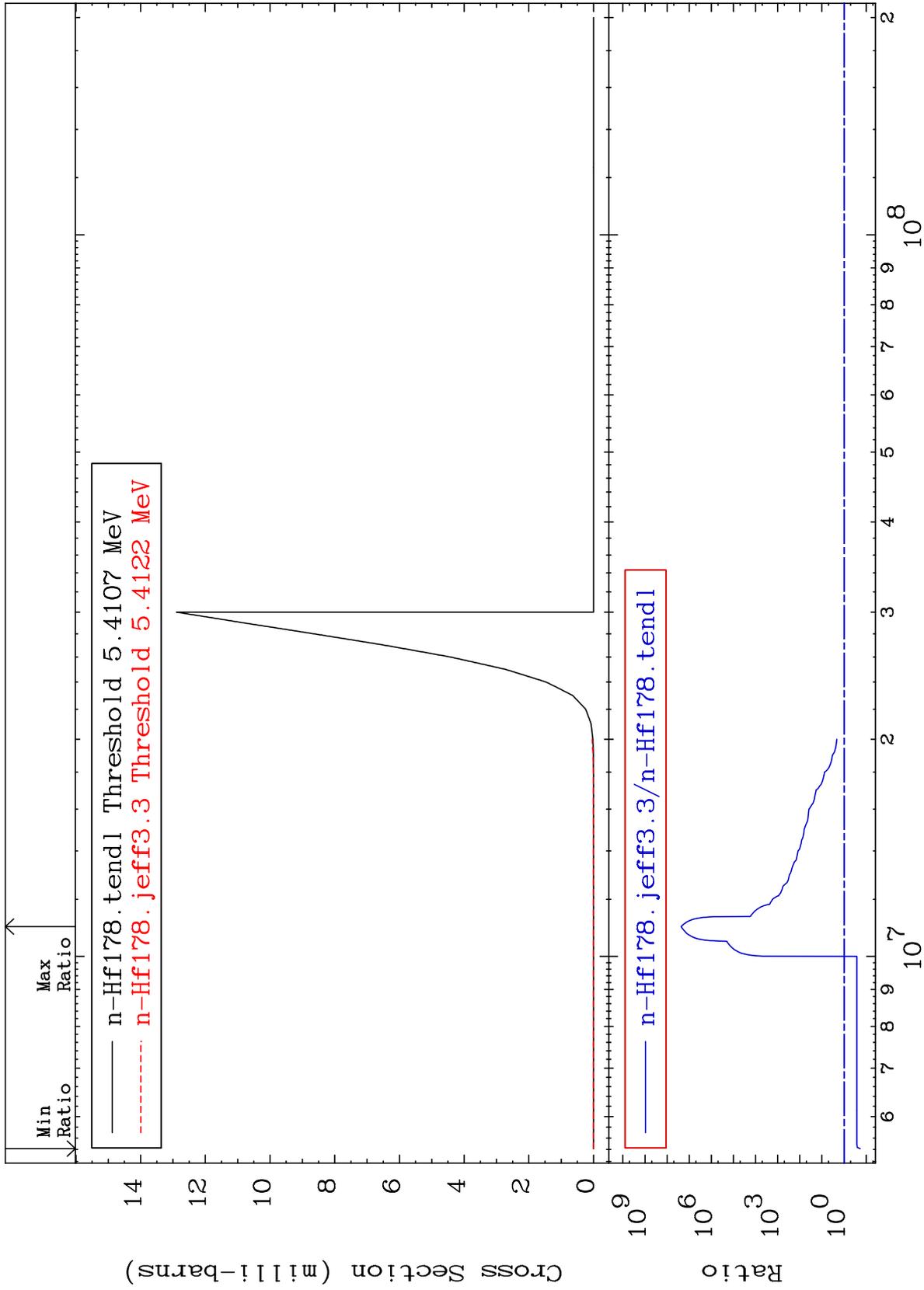
72-Hf-178
-99.75 To 9999. %



MAT 7237

(n,2n) α
Cross Section

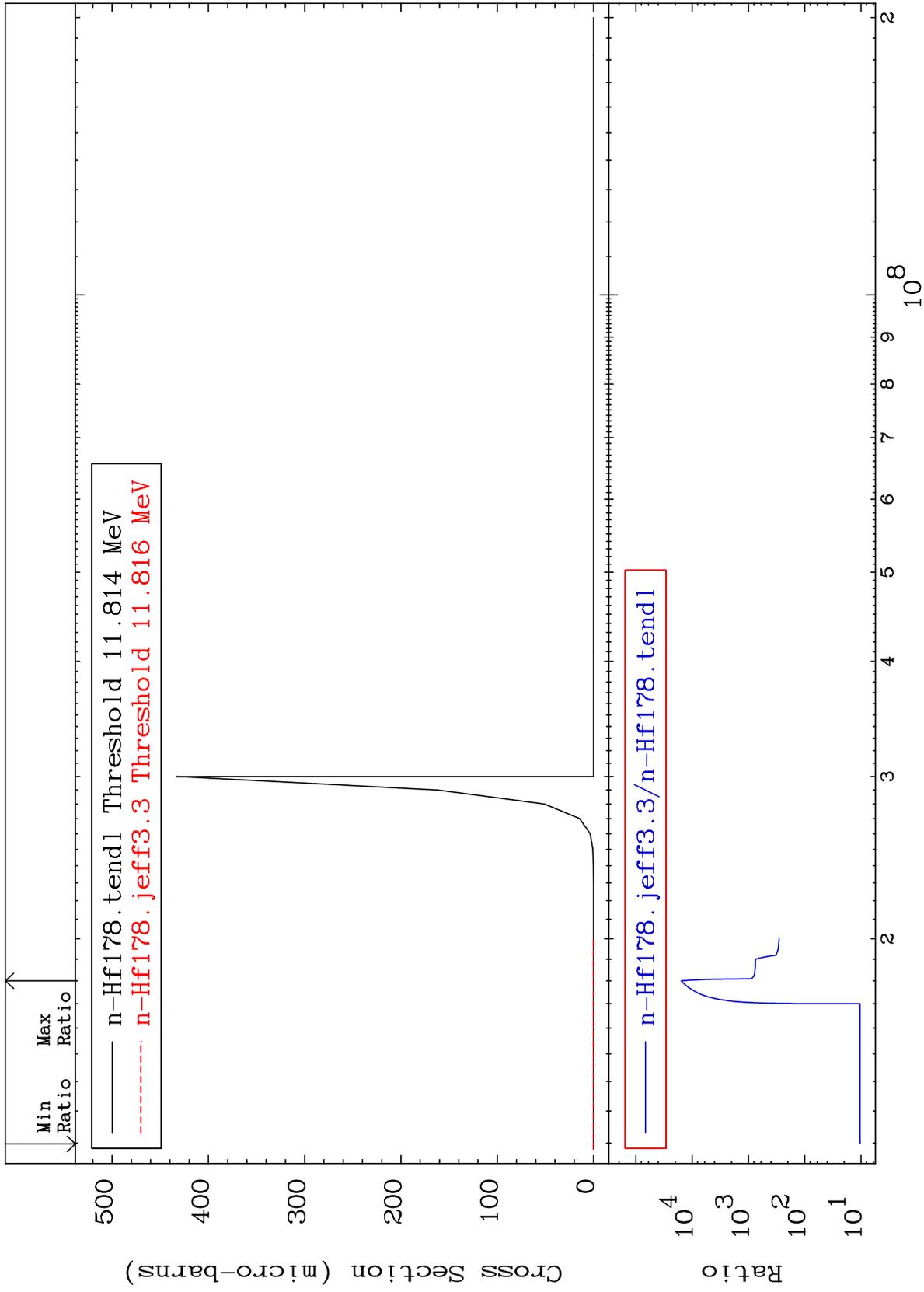
72-Hf-178
-81.40 To 9999. %



7

Incident Energy (eV)

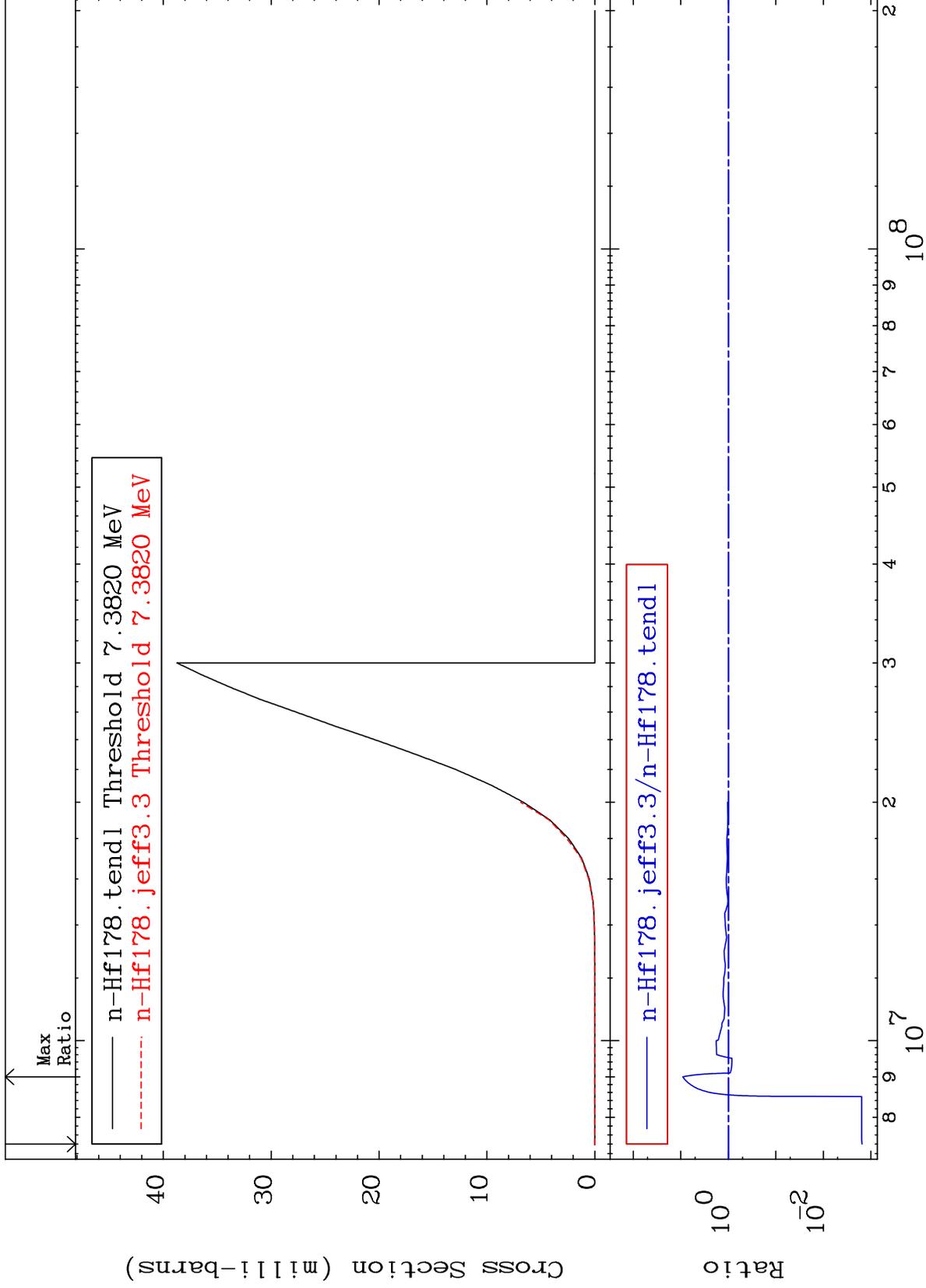
72-Hf-178



MAT 7237

(n,n') p
Cross Section

72-Hf-178
-99.85 To 813.4 %



MAT 7237

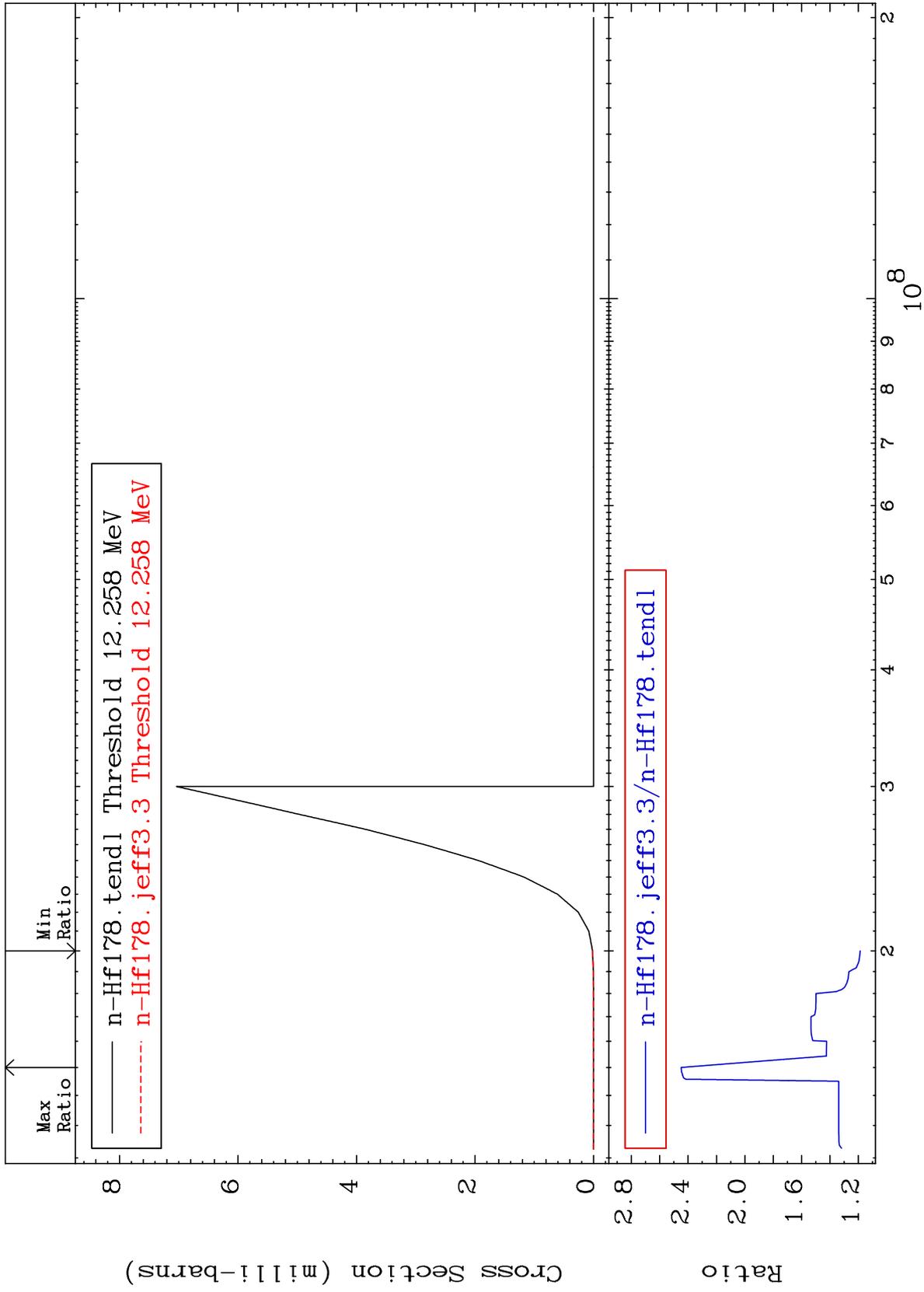
(n,n') d

72-Hf-178

Cross Section

18.69

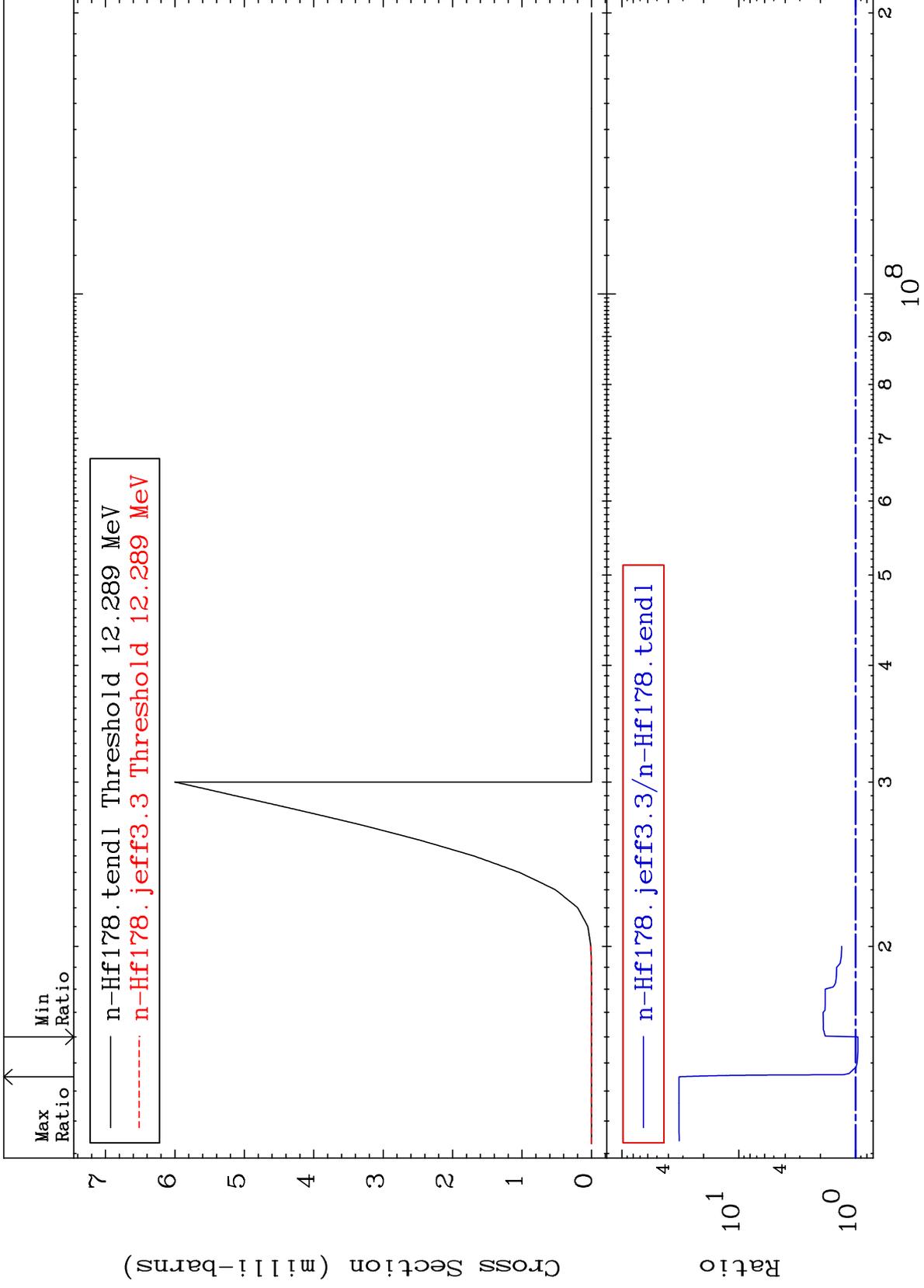
To 144.9 %



10

Incident Energy (eV)

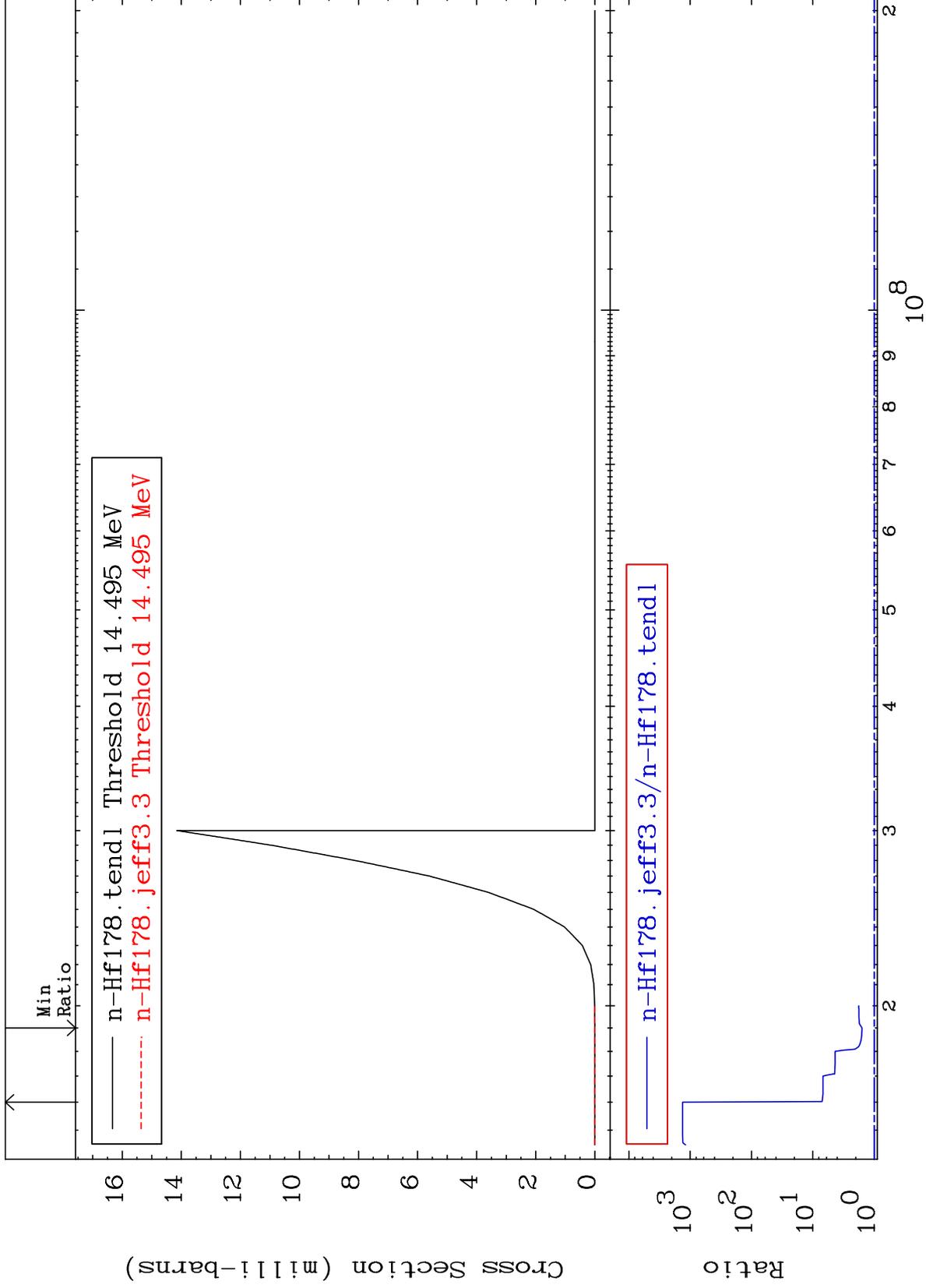
72-Hf-178



MAT 7237

(n,2n) p
Cross Section

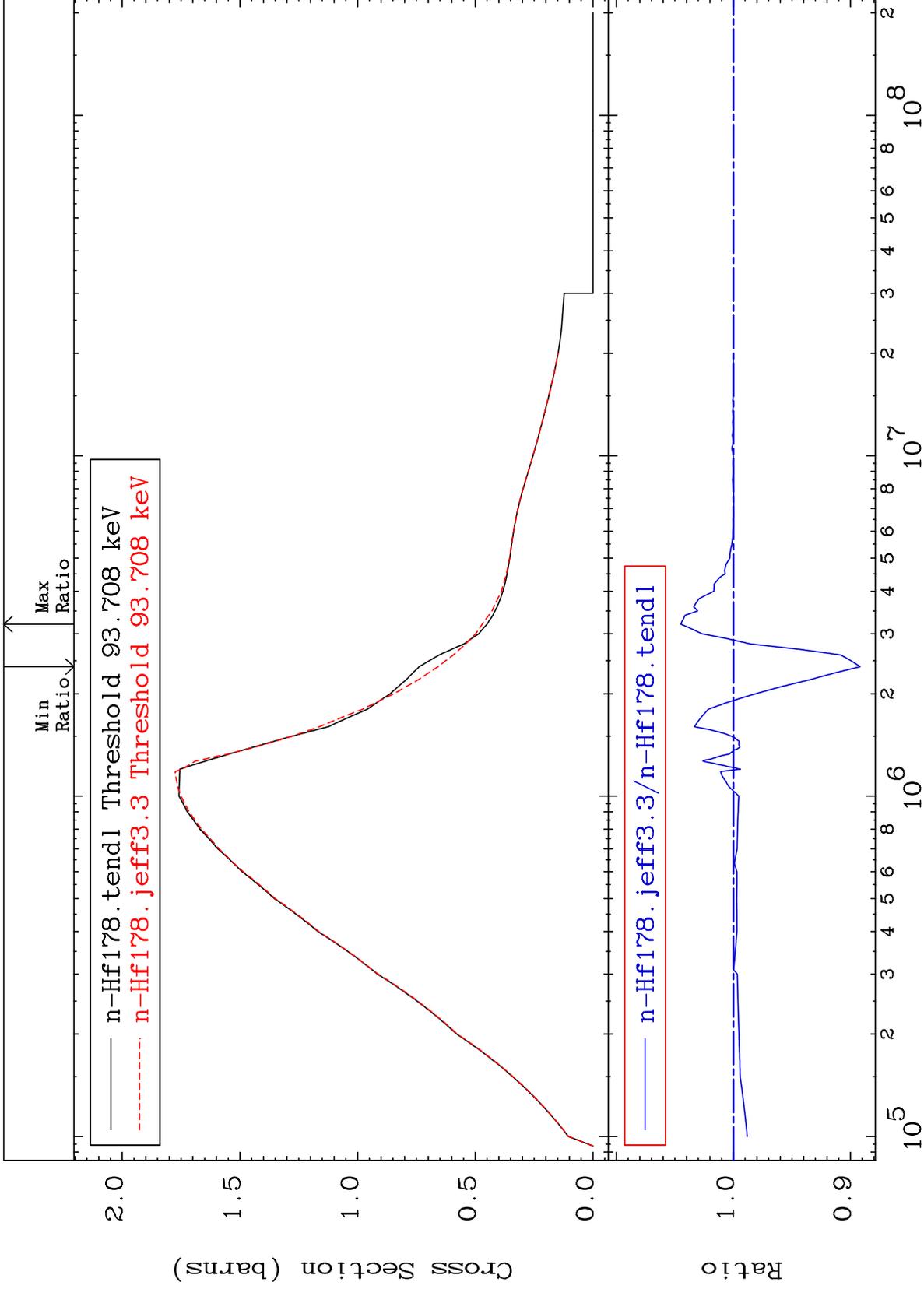
72-Hf-178
57.65 To 9999. %



MAT 7237

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

72-Hf-178
-10.83 To 4.502 %



13

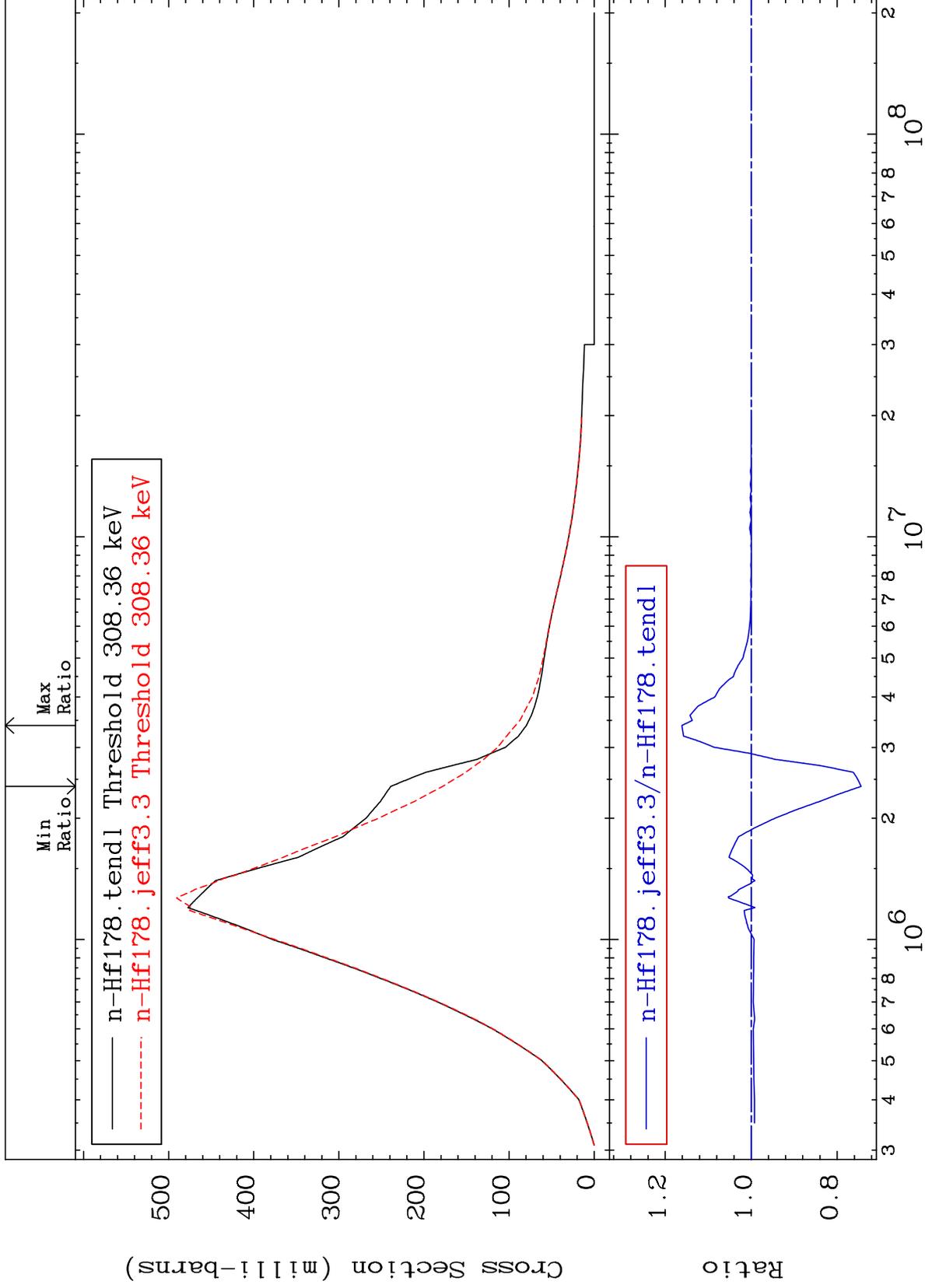
Incident Energy (eV)

72-Hf-178

MAT 7237

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

72-Hf-178
-25.57 To 16.11 %



14

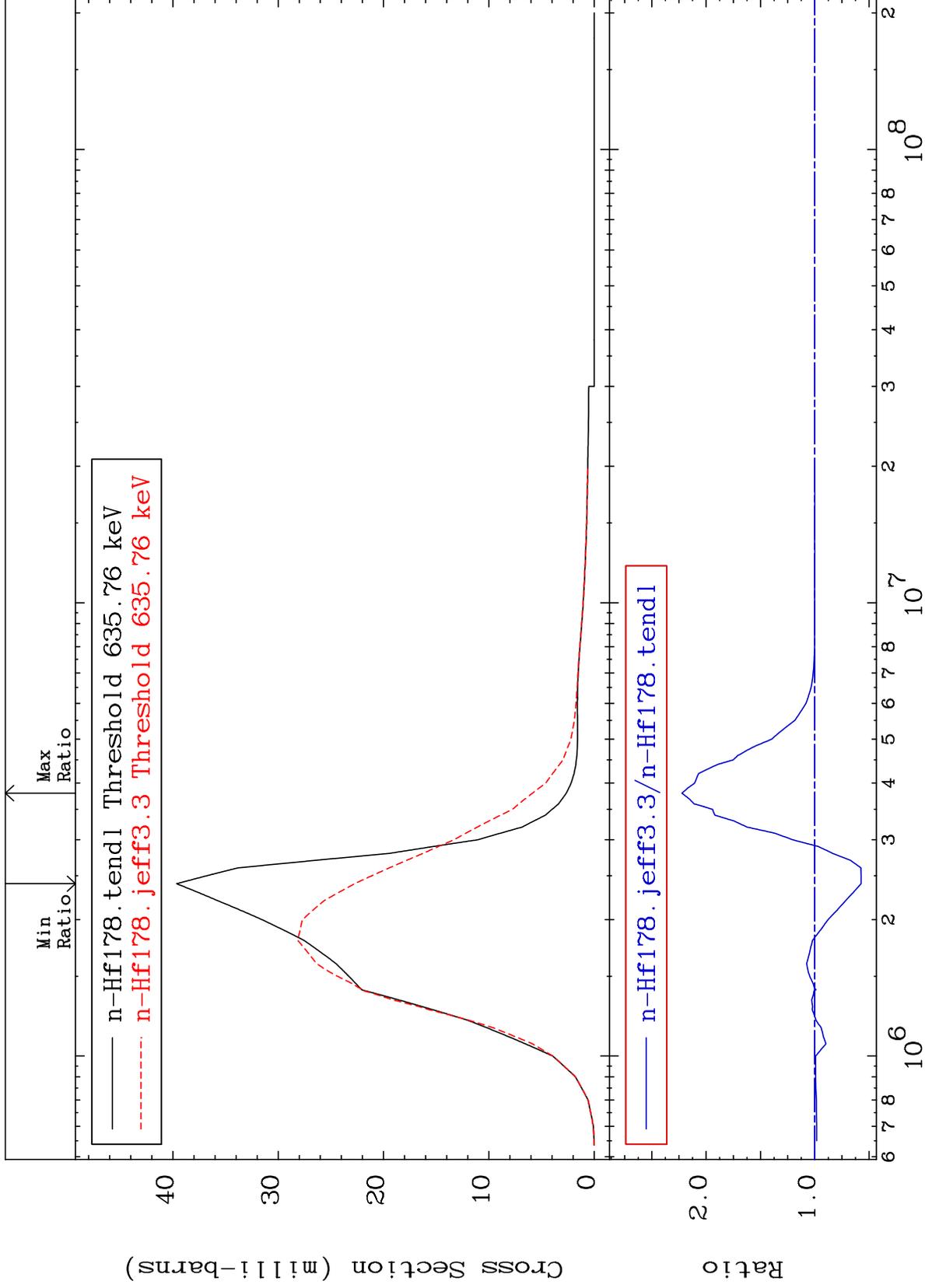
Incident Energy (eV)

72-Hf-178

MAT 7237

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

72-Hf-178
-42.63 To 122.3 %



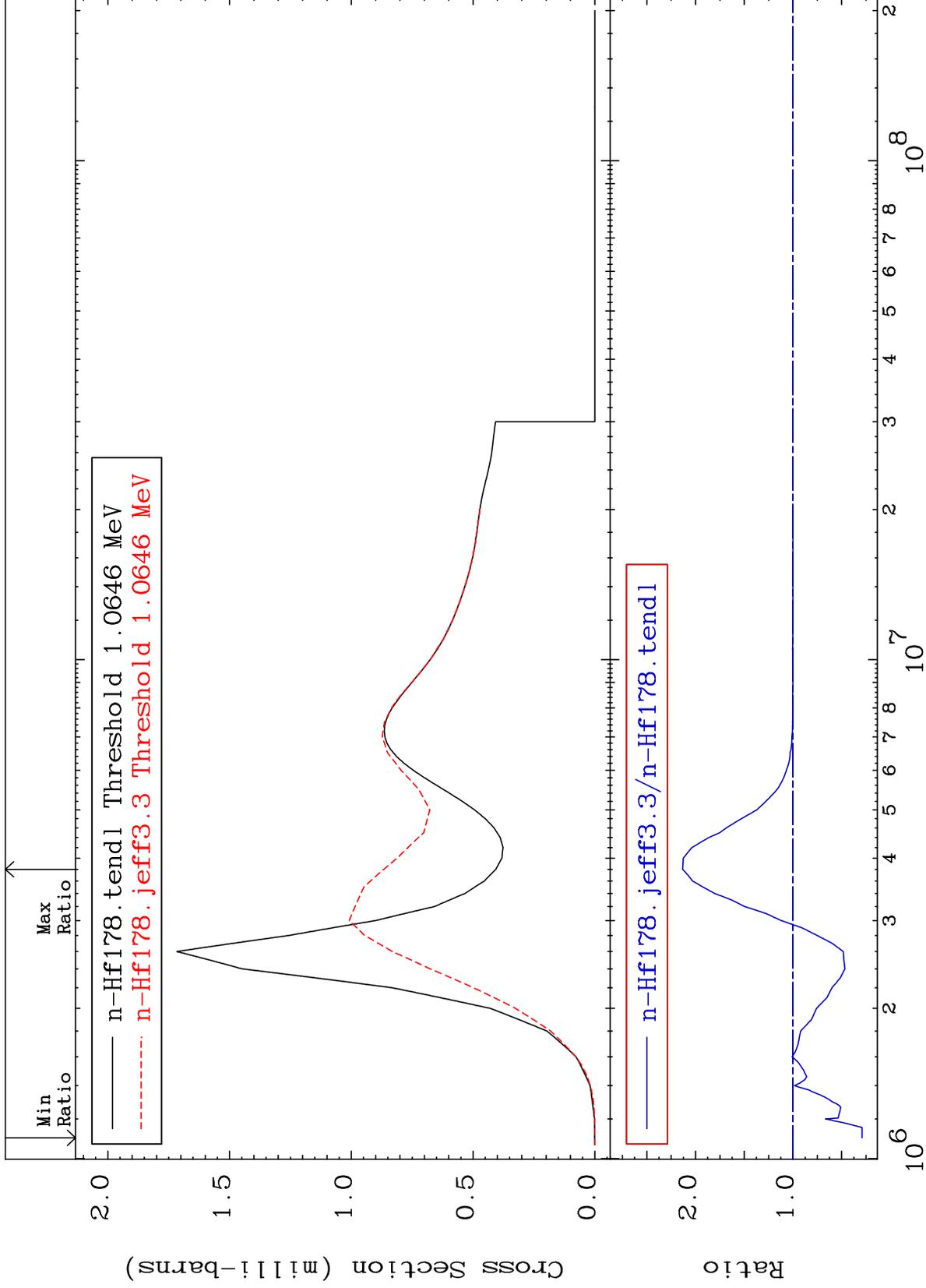
15

72-Hf-178

MAT 7237

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

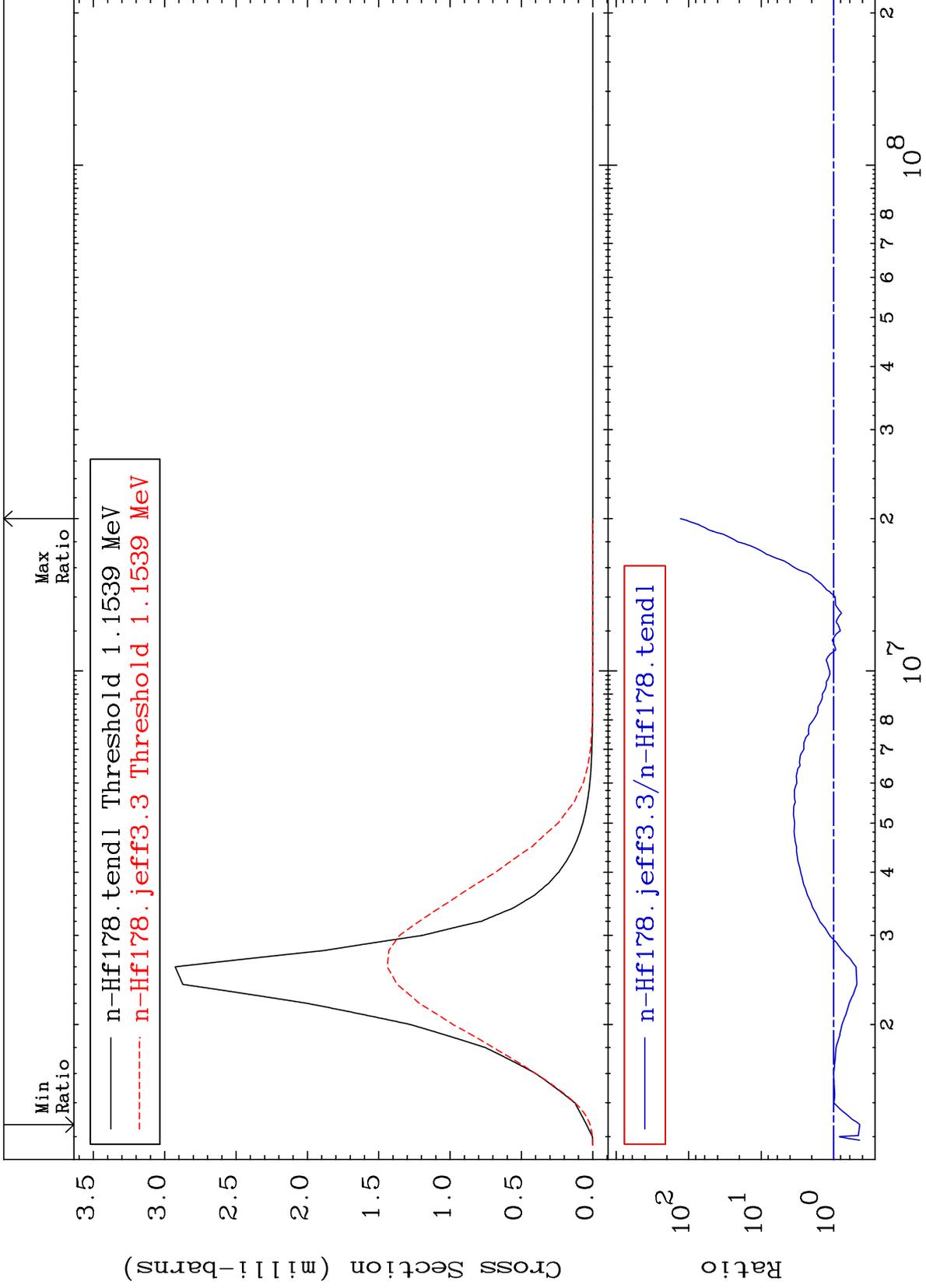
72-Hf-178
-70.92 To 113.2 %



MAT 7237

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

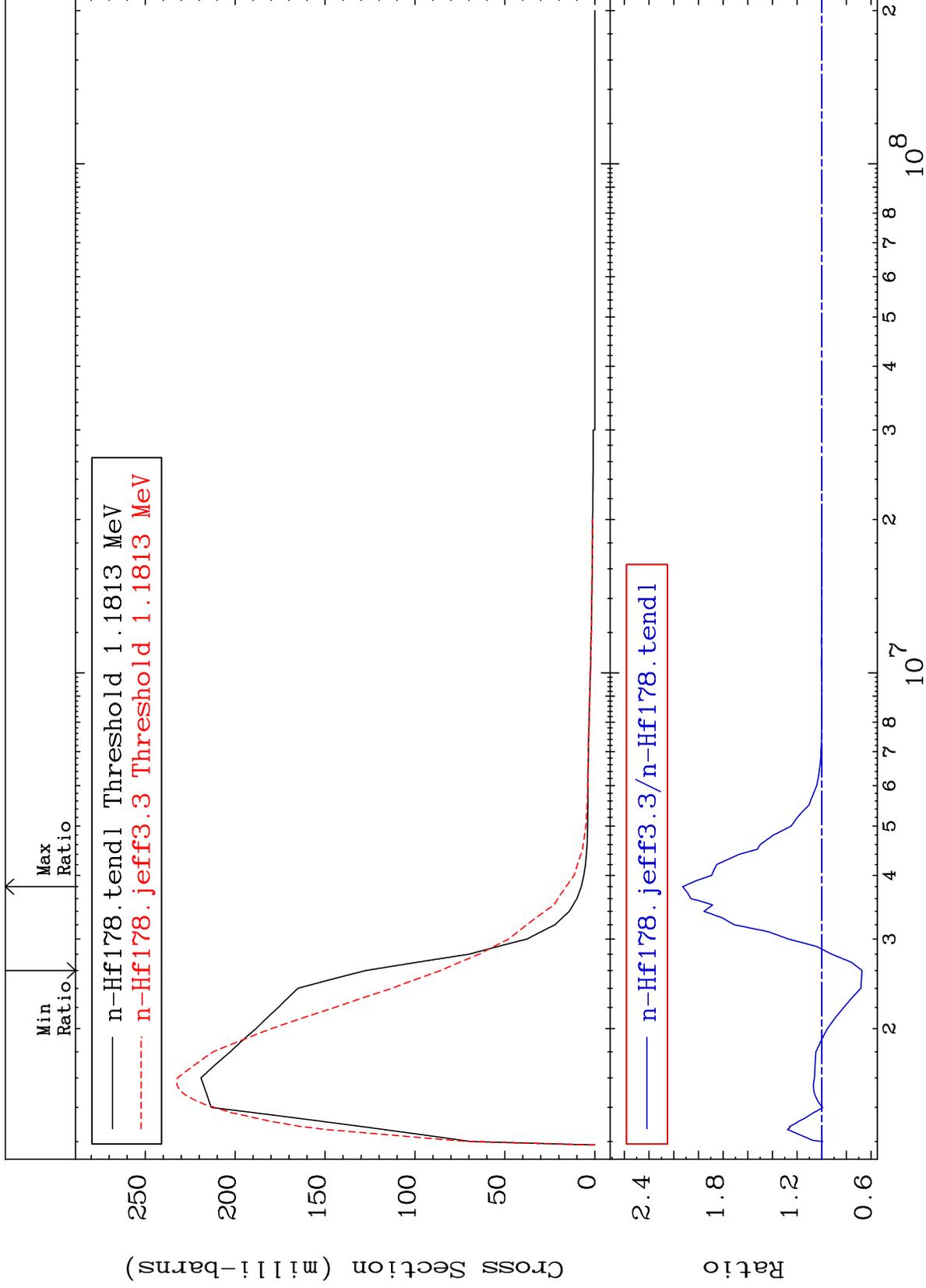
72-Hf-178
-56.46 To 9999. %



MAT 7237

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

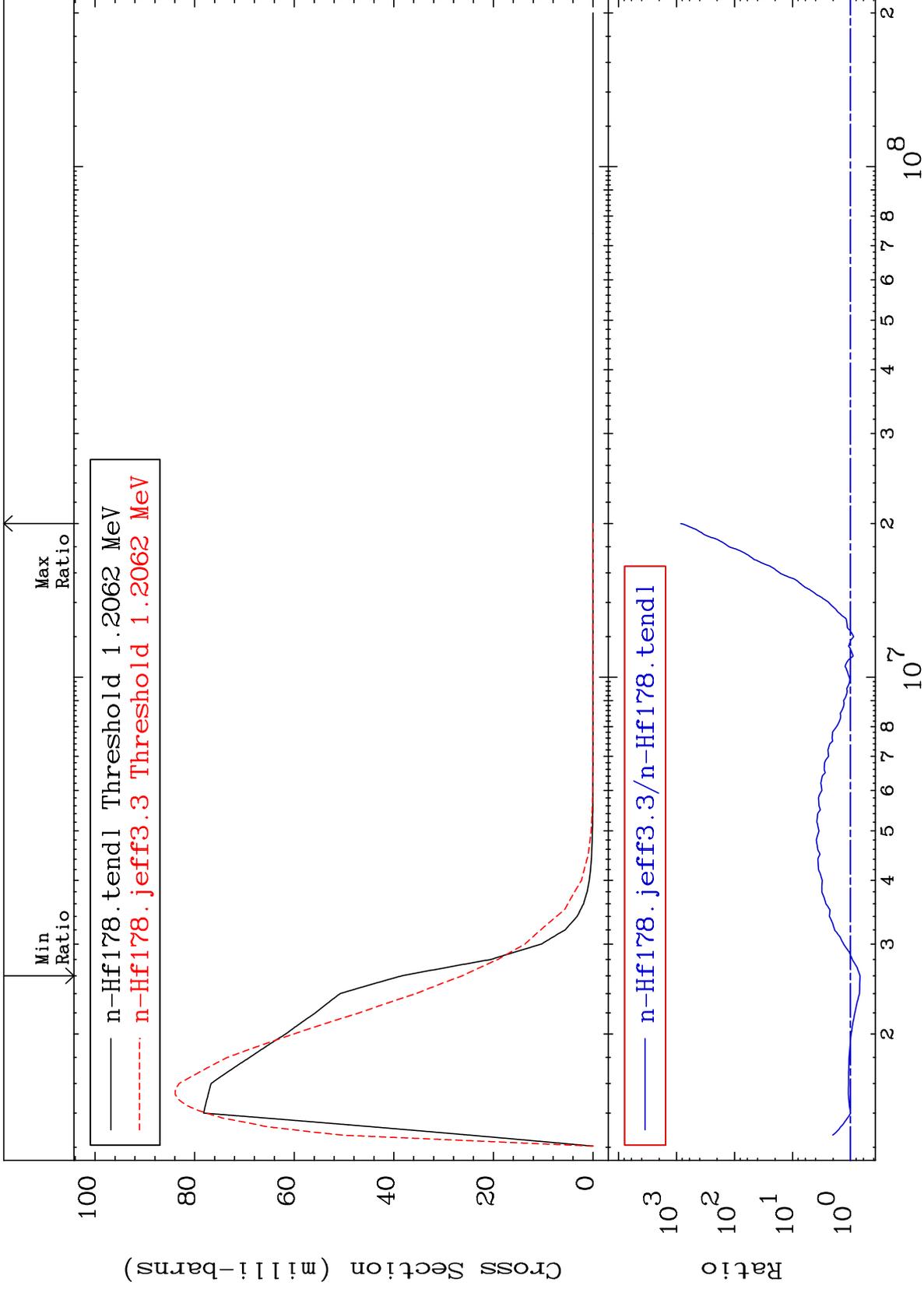
72-Hf-178
-32.67 To 112.8 %



MAT 7237

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

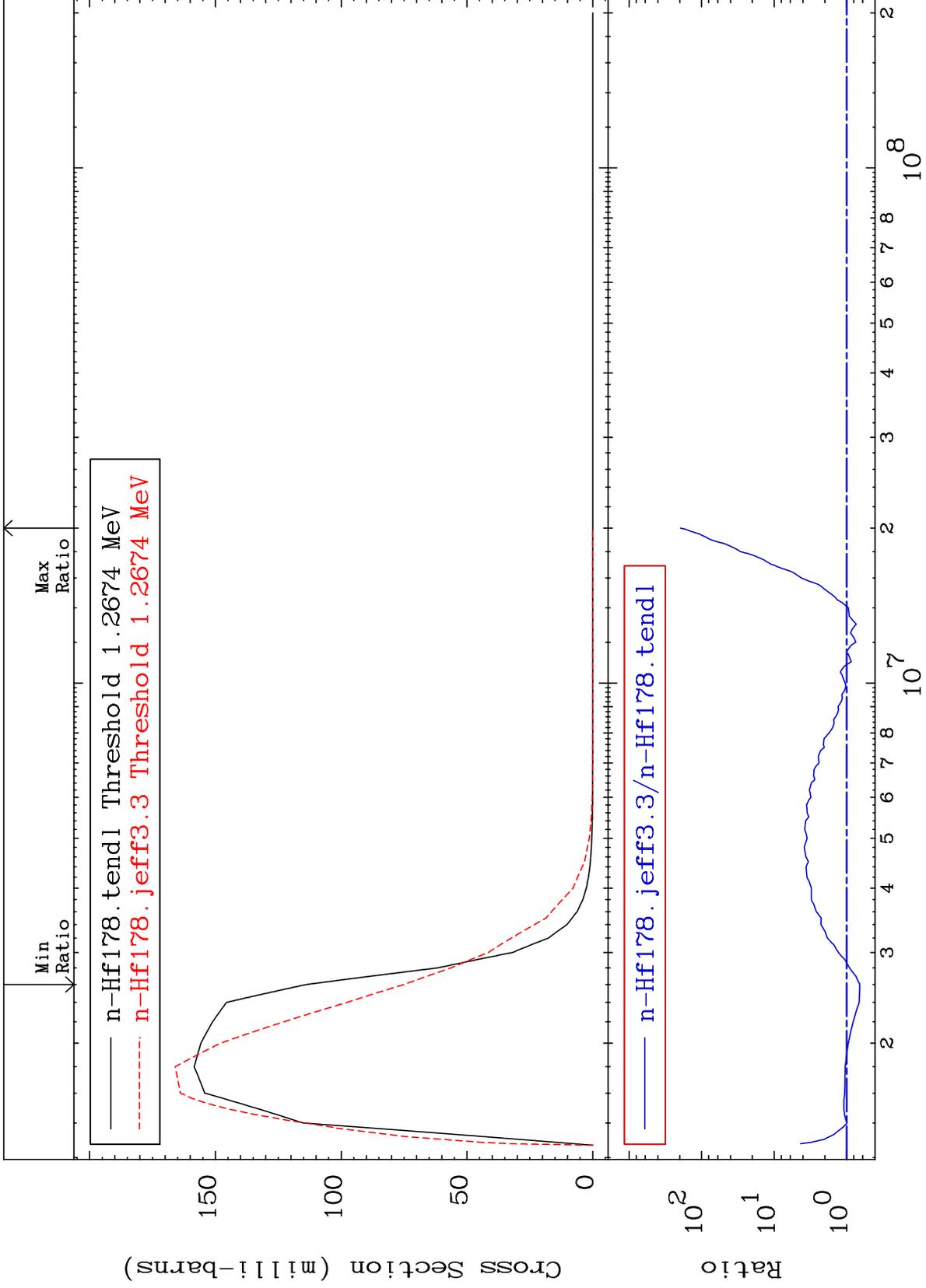
72-Hf-178
-31.56 To 9999. %



MAT 7237

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

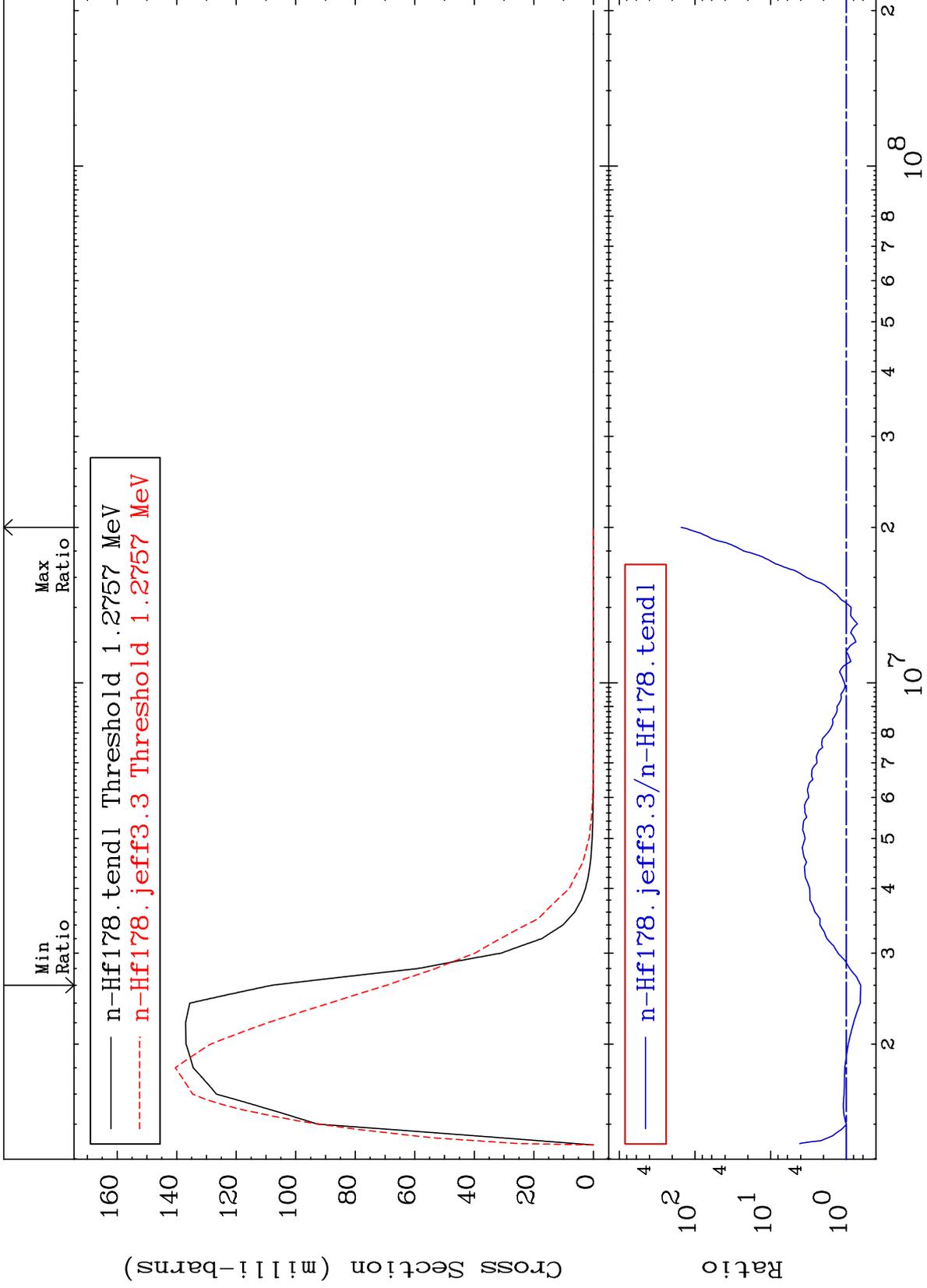
72-Hf-178
-34.06 To 9999. %



MAT 7237

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

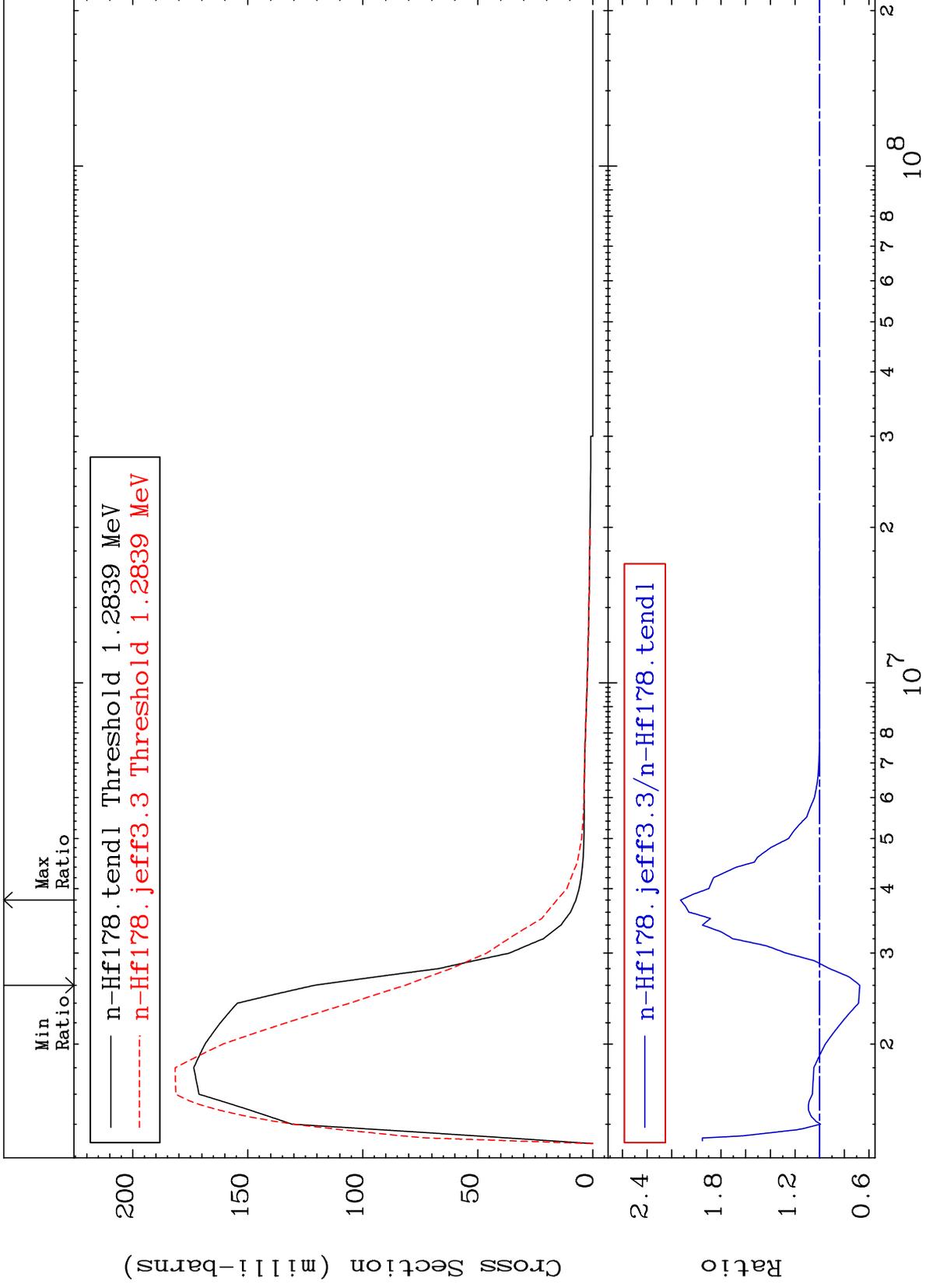
72-Hf-178
-35.69 To 9999. %

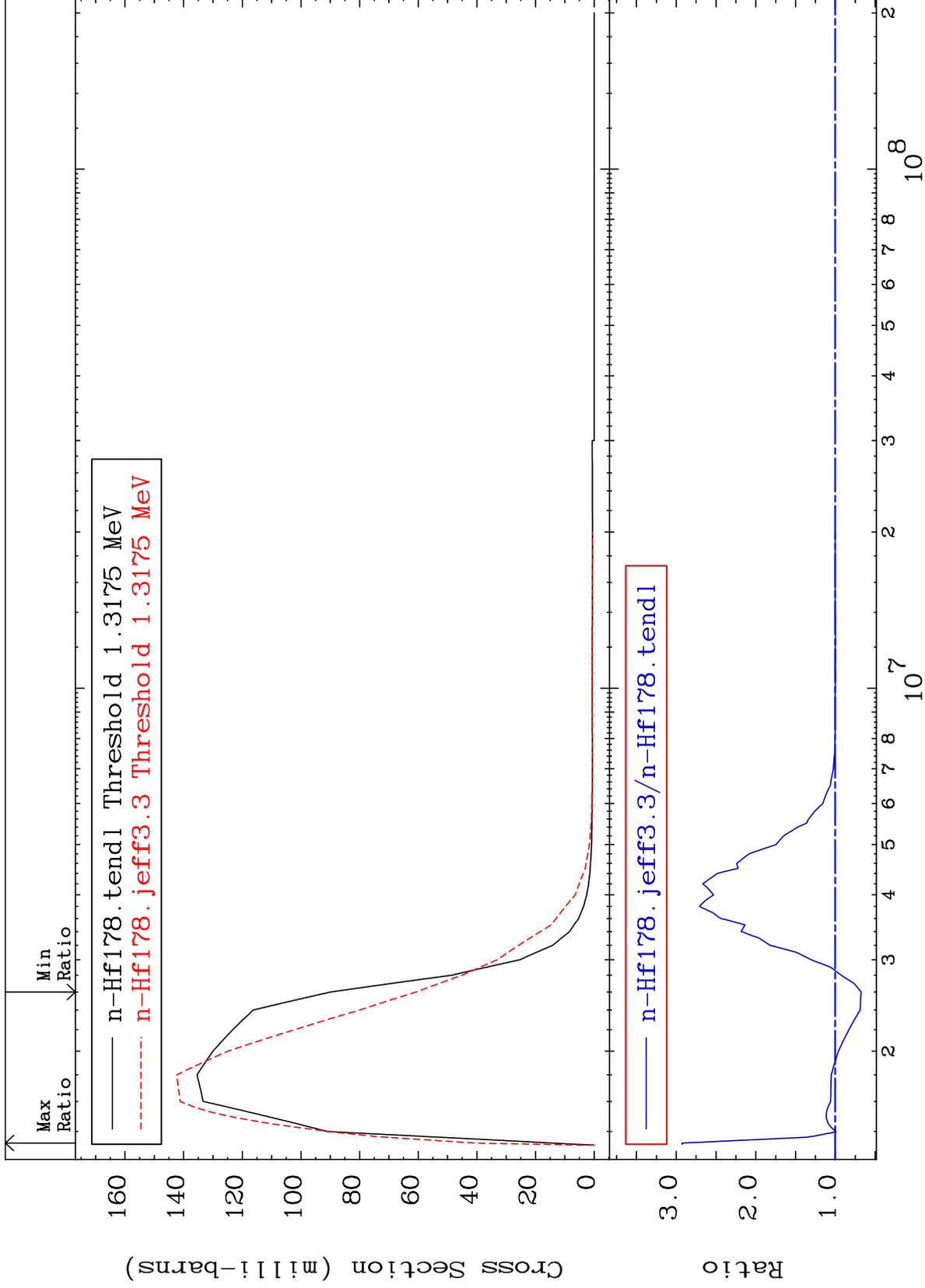


MAT 7237

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

72-Hf-178
-32.61 To 112.9 %

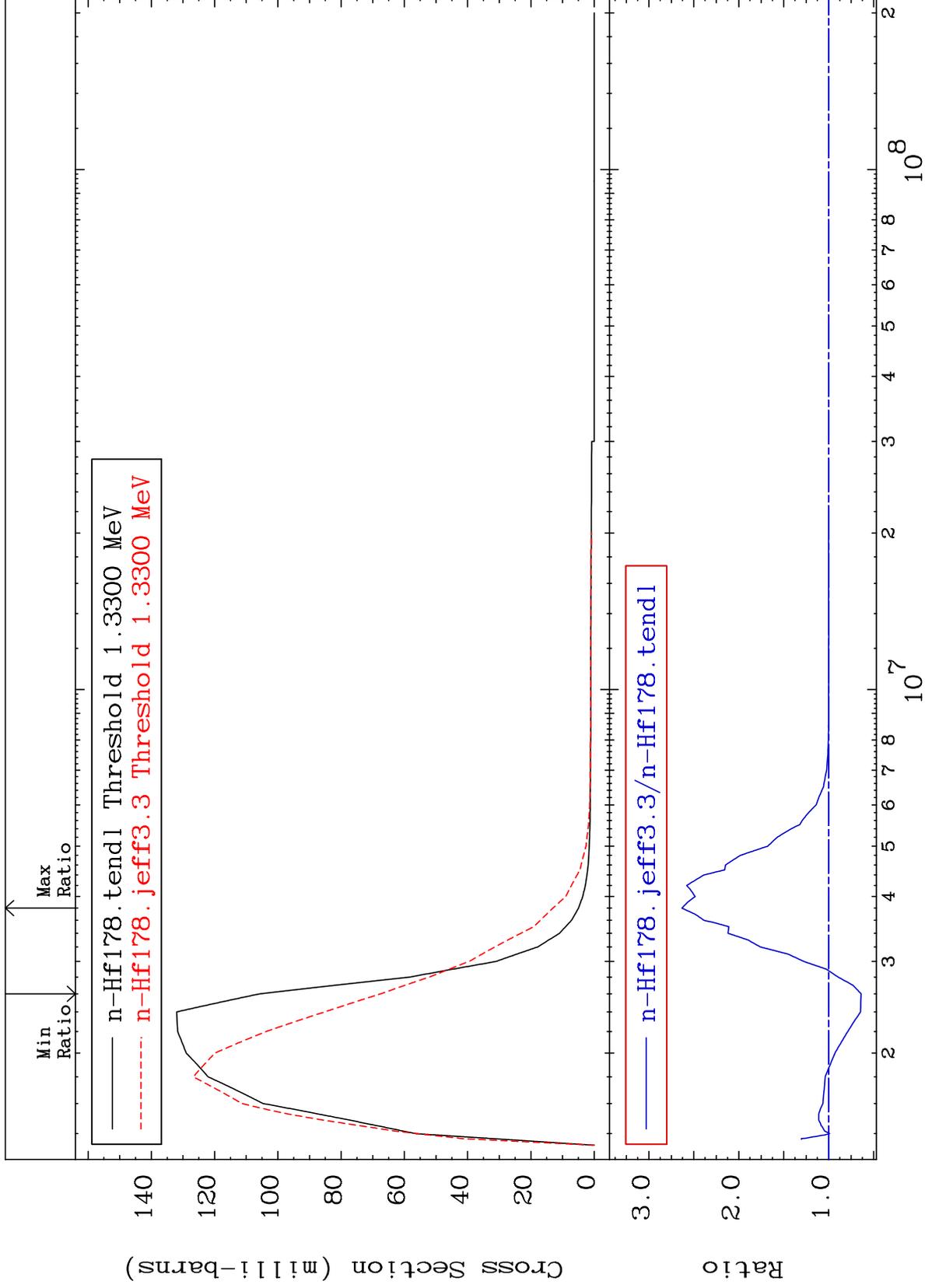




MAT 7237

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

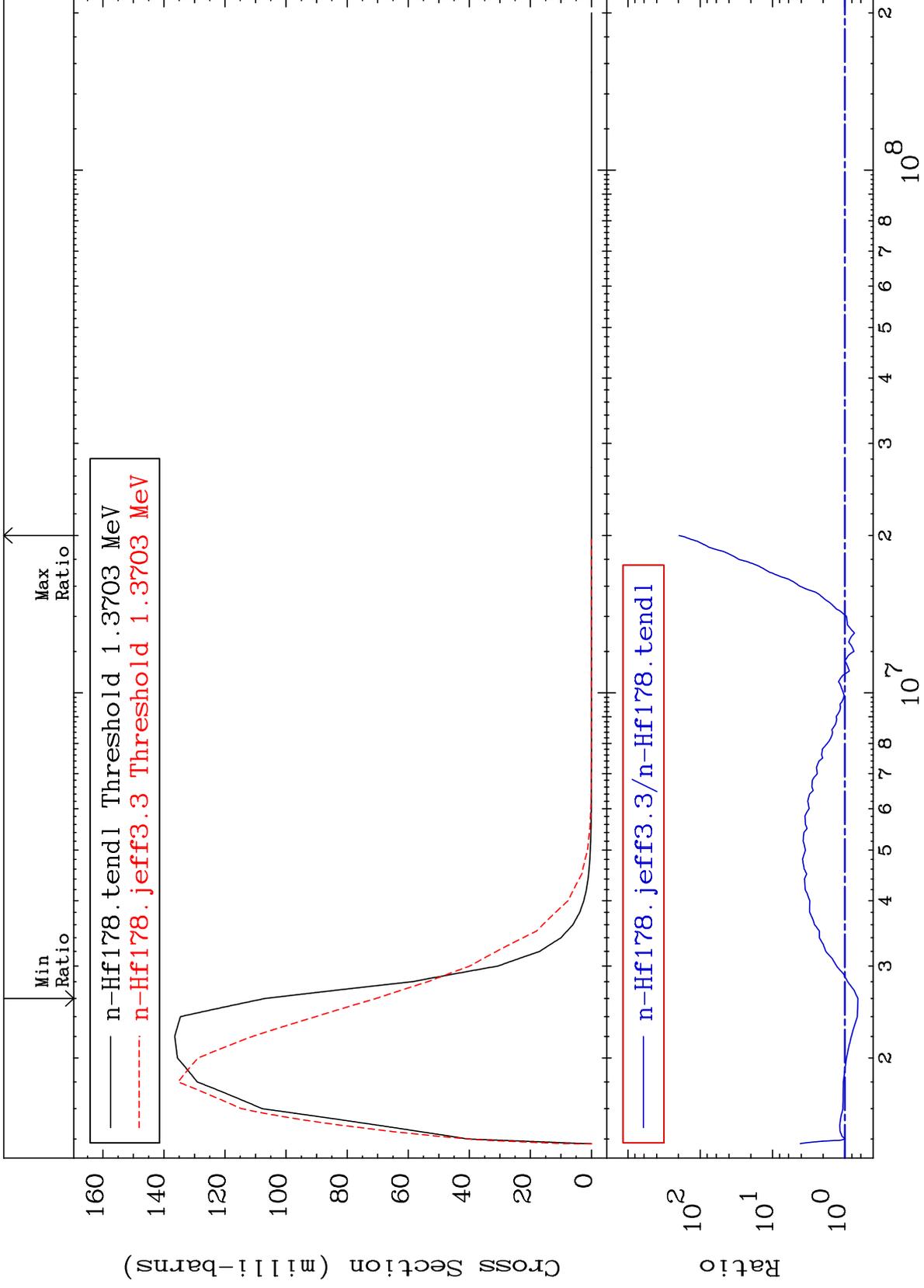
72-Hf-178
-36.15 To 163.2 %

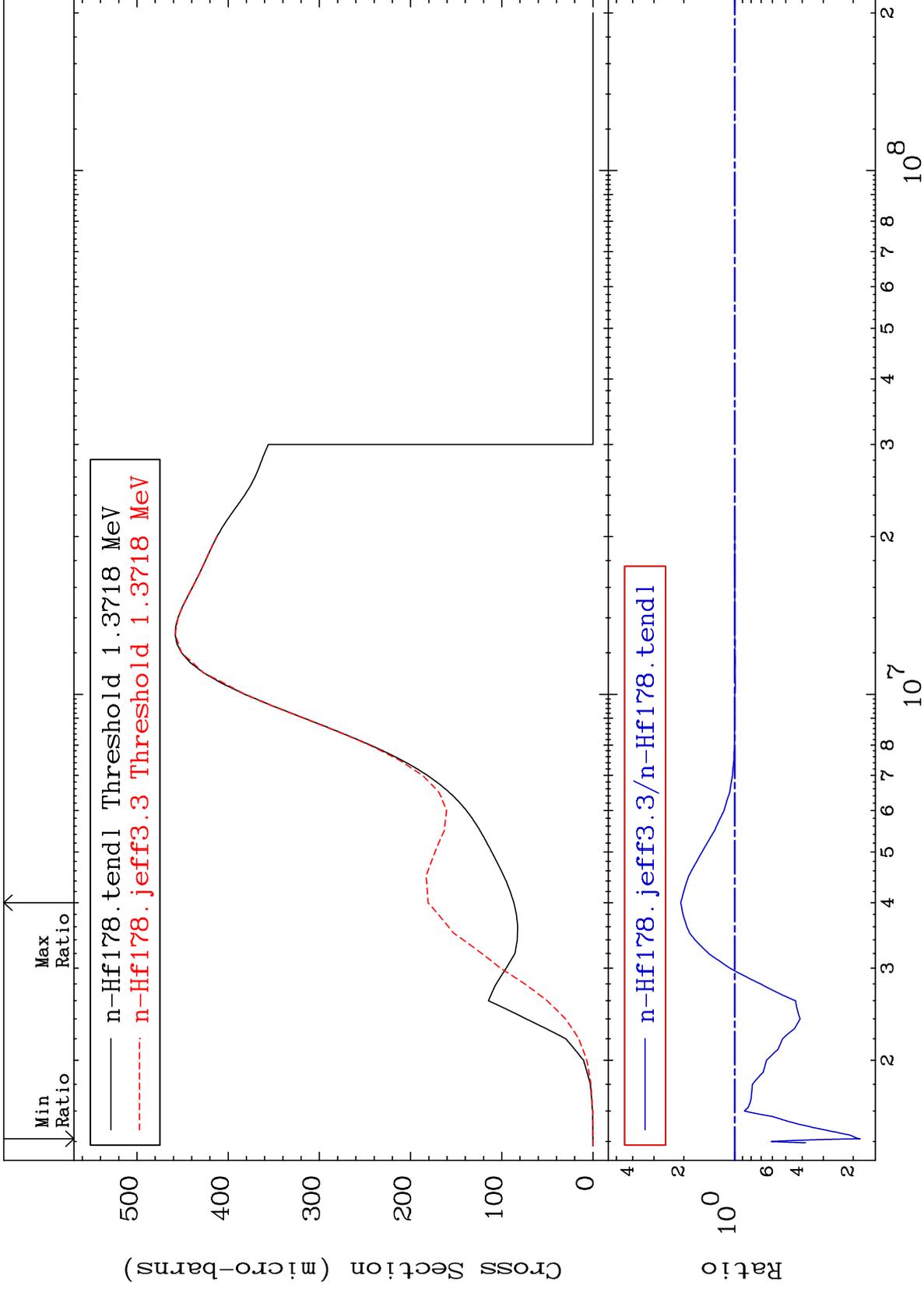


MAT 7237

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

72-Hf-178
-34.03 To 9999. %

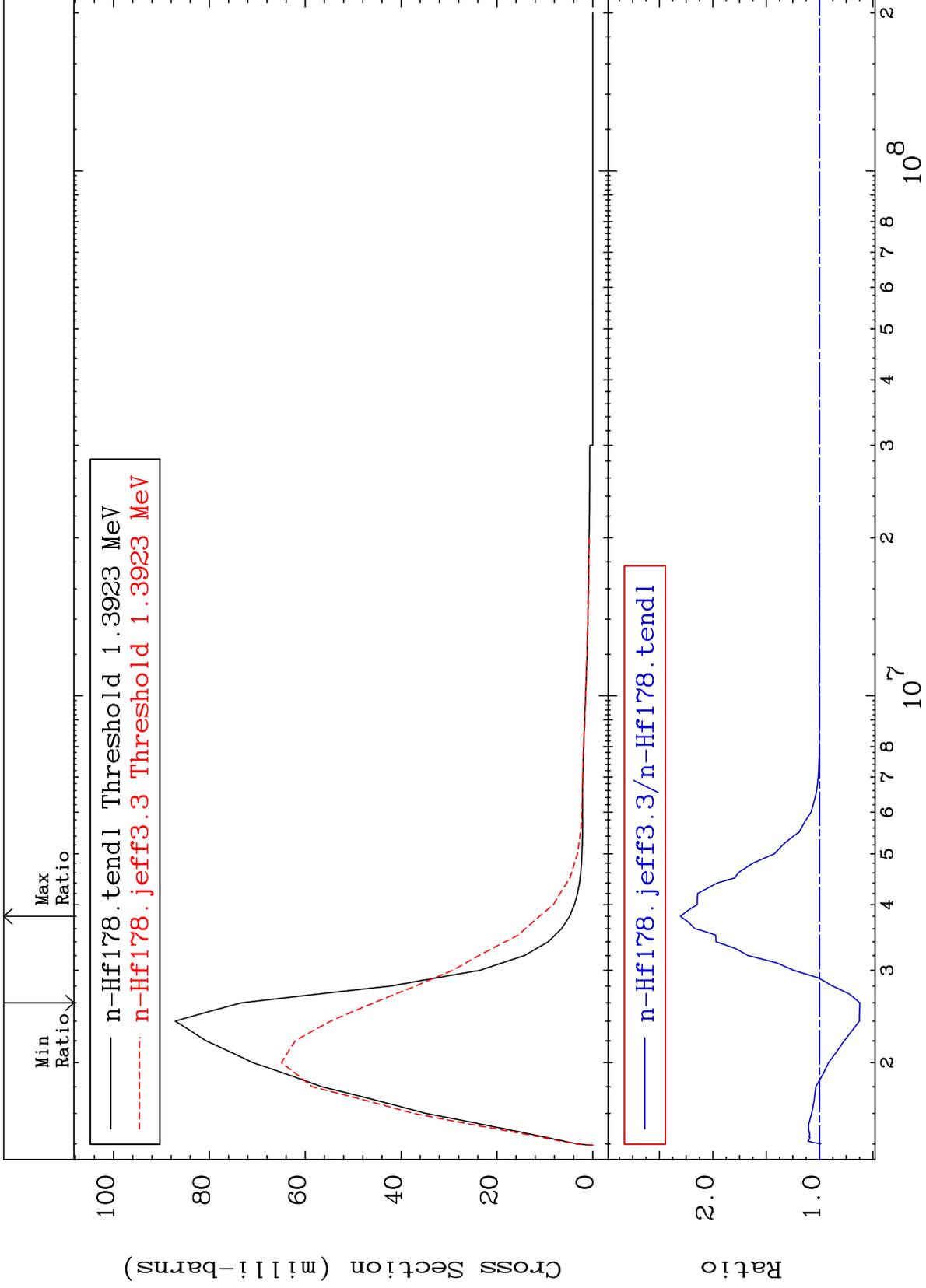




MAT 7237

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

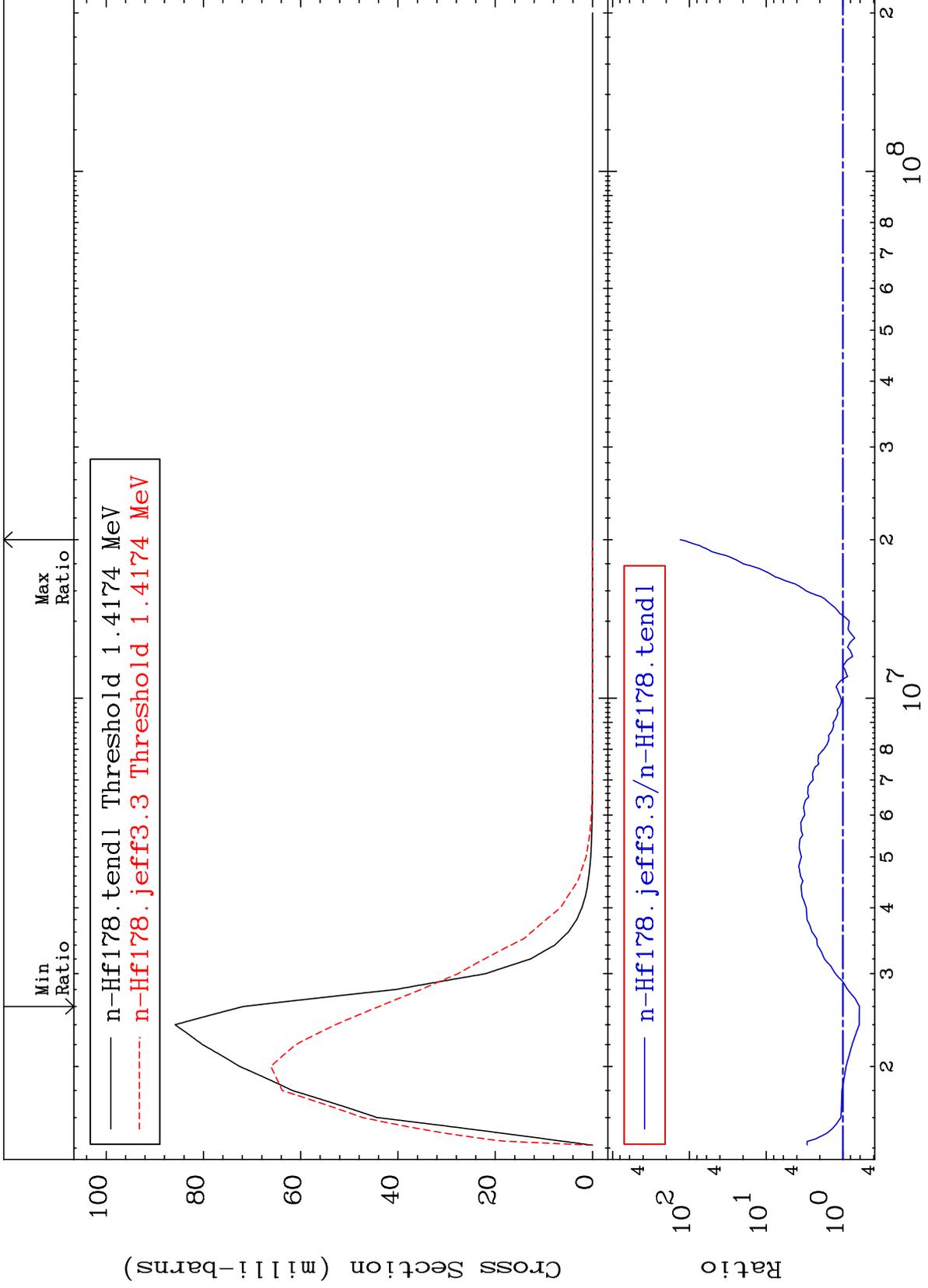
72-Hf-178
-37.70 To 130.3 %



MAT 7237

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

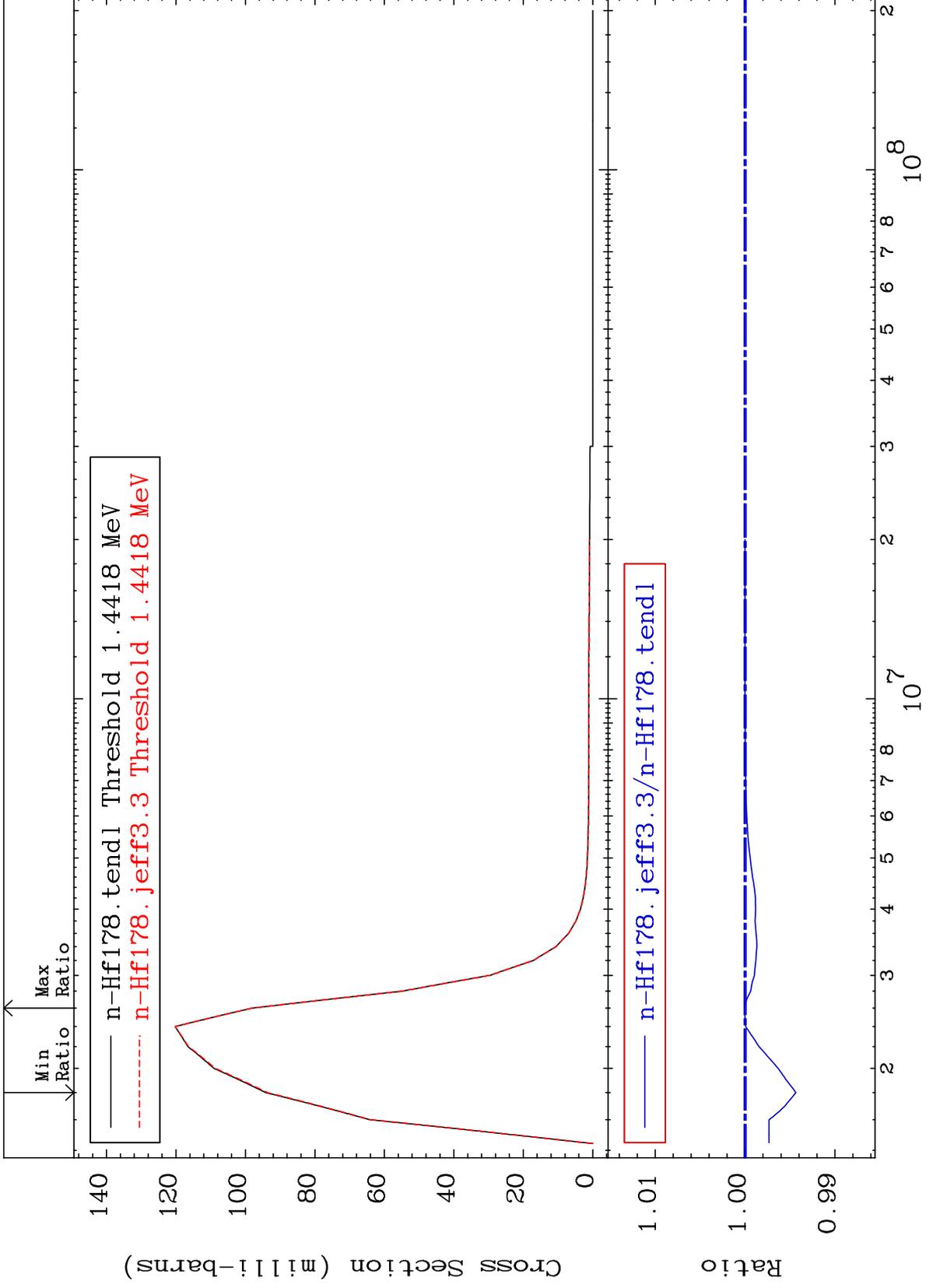
72-Hf-178
-38.88 To 9999. %



MAT 7237

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

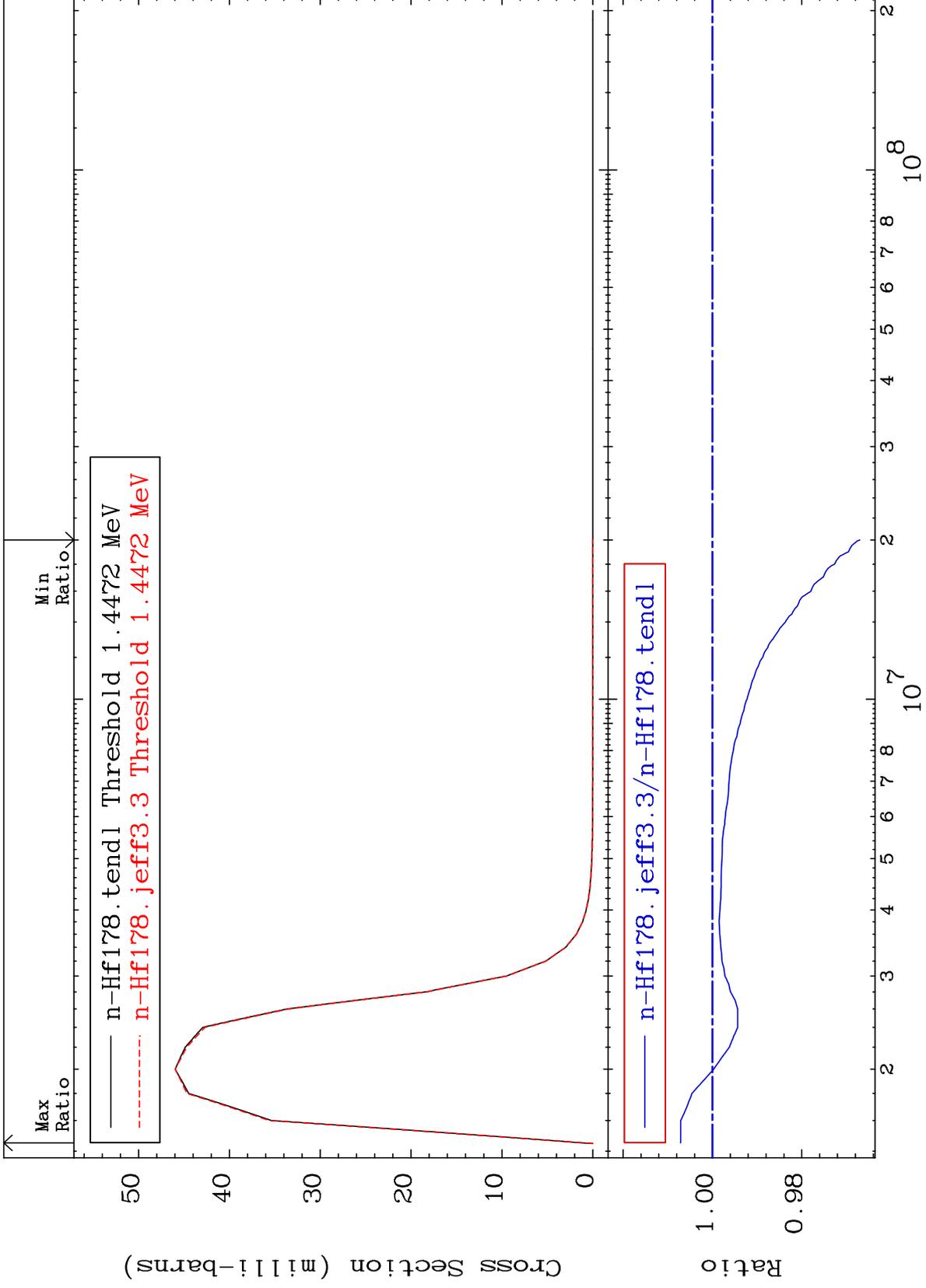
72-Hf-178
-0.567 To 0.008 %

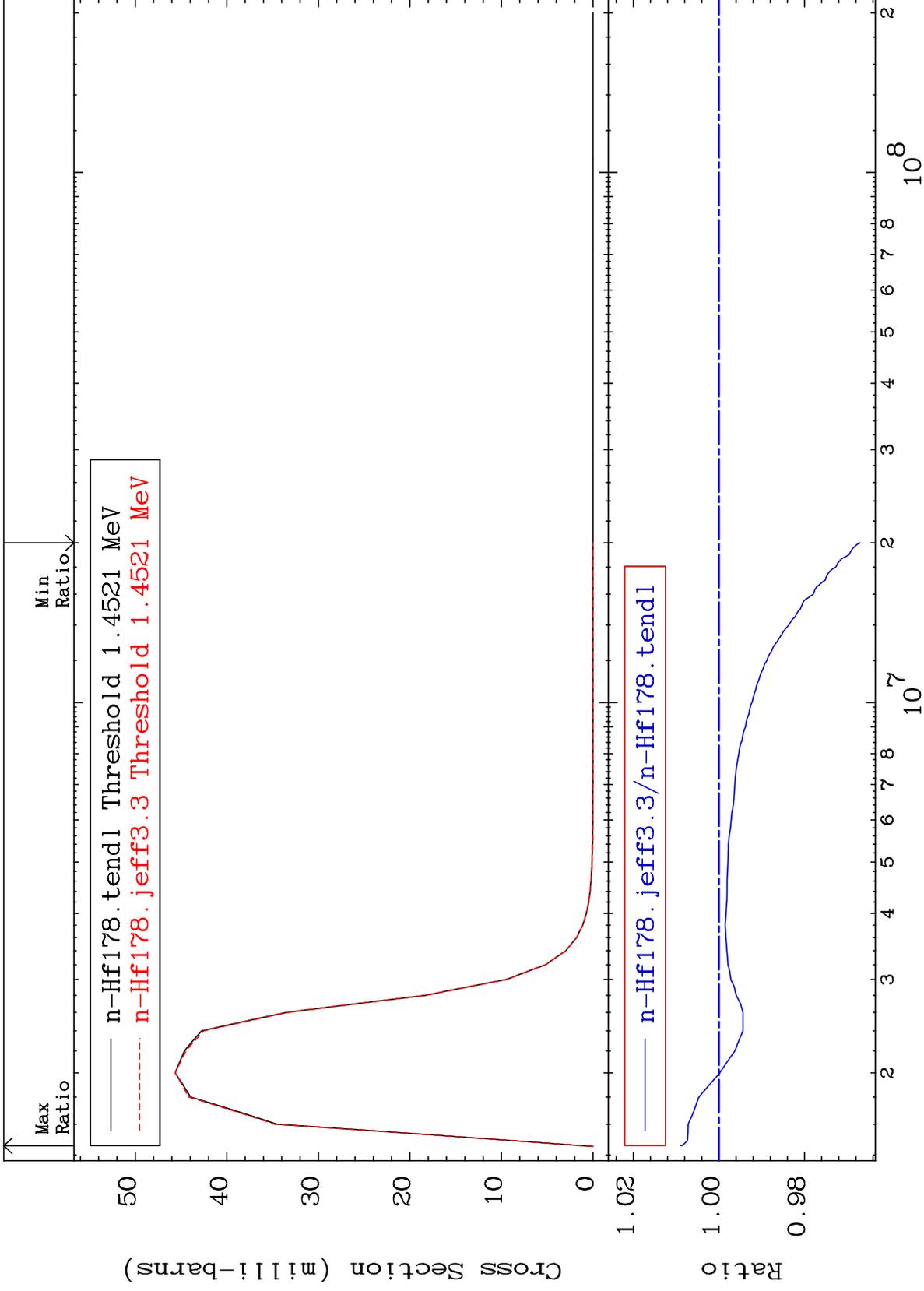


MAT 7237

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

72-Hf-178
-3.298 To 0.715 %

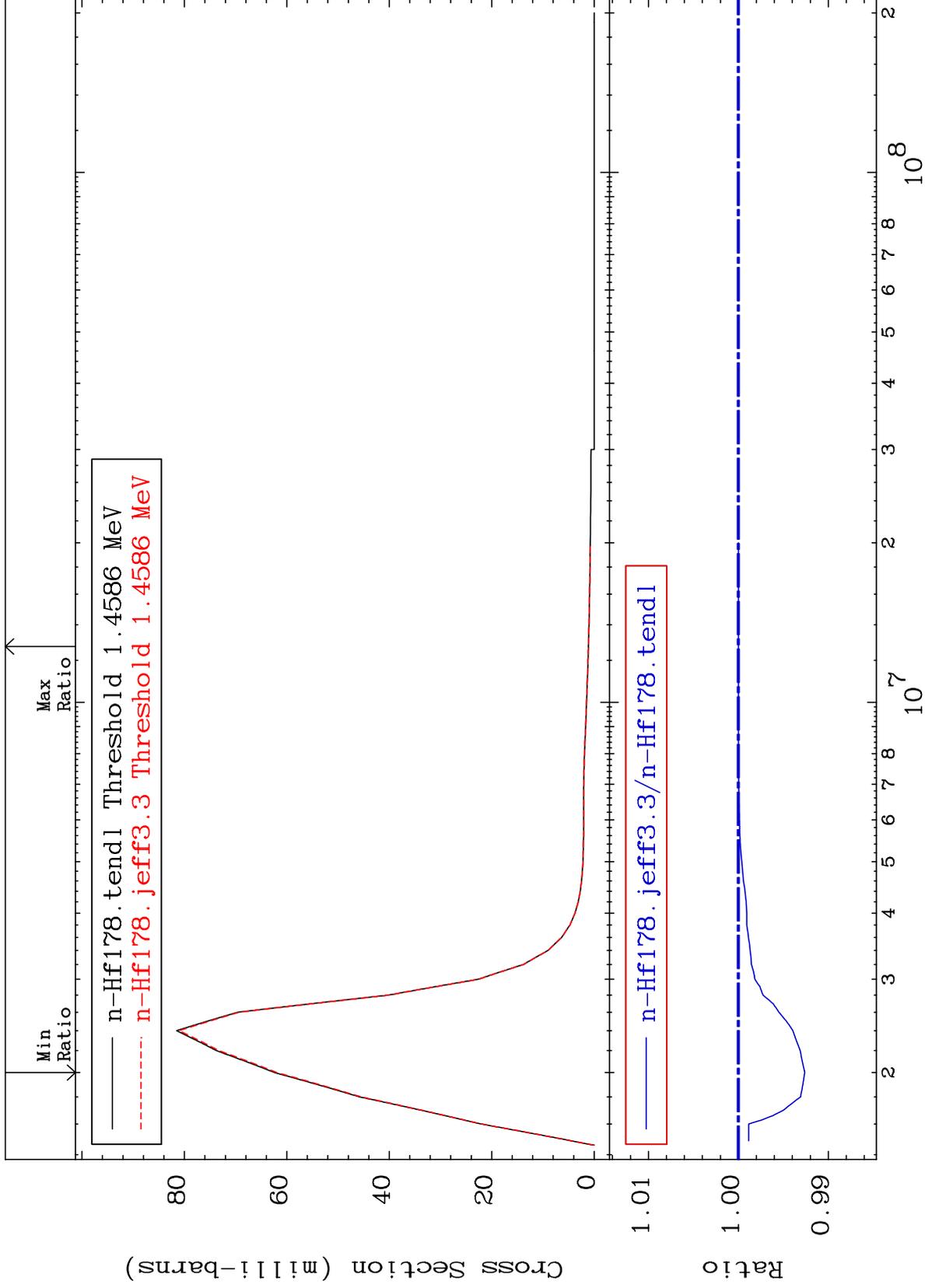


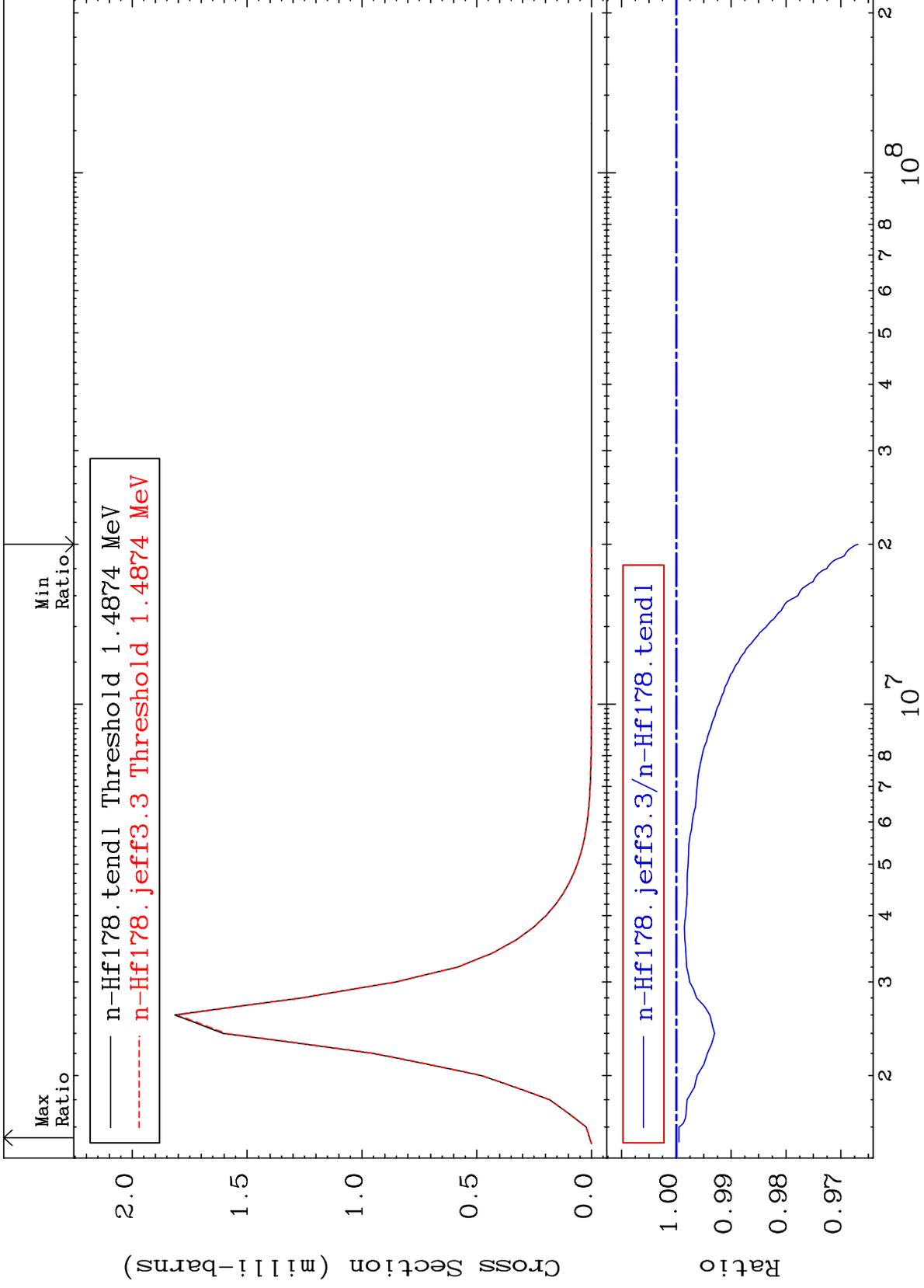


MAT 7237

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

72-Hf-178
-0.737 To 0.000 %

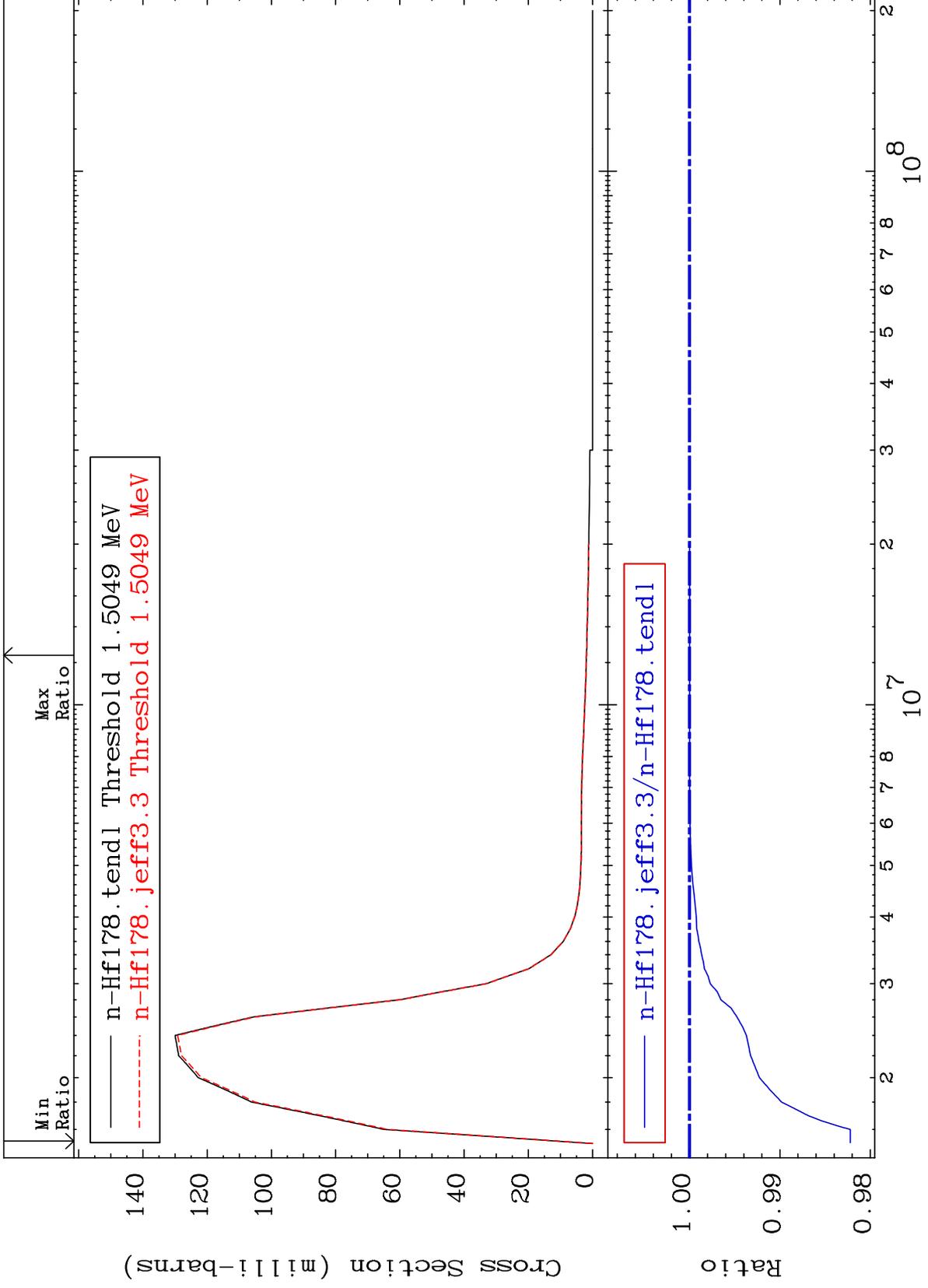




MAT 7237

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

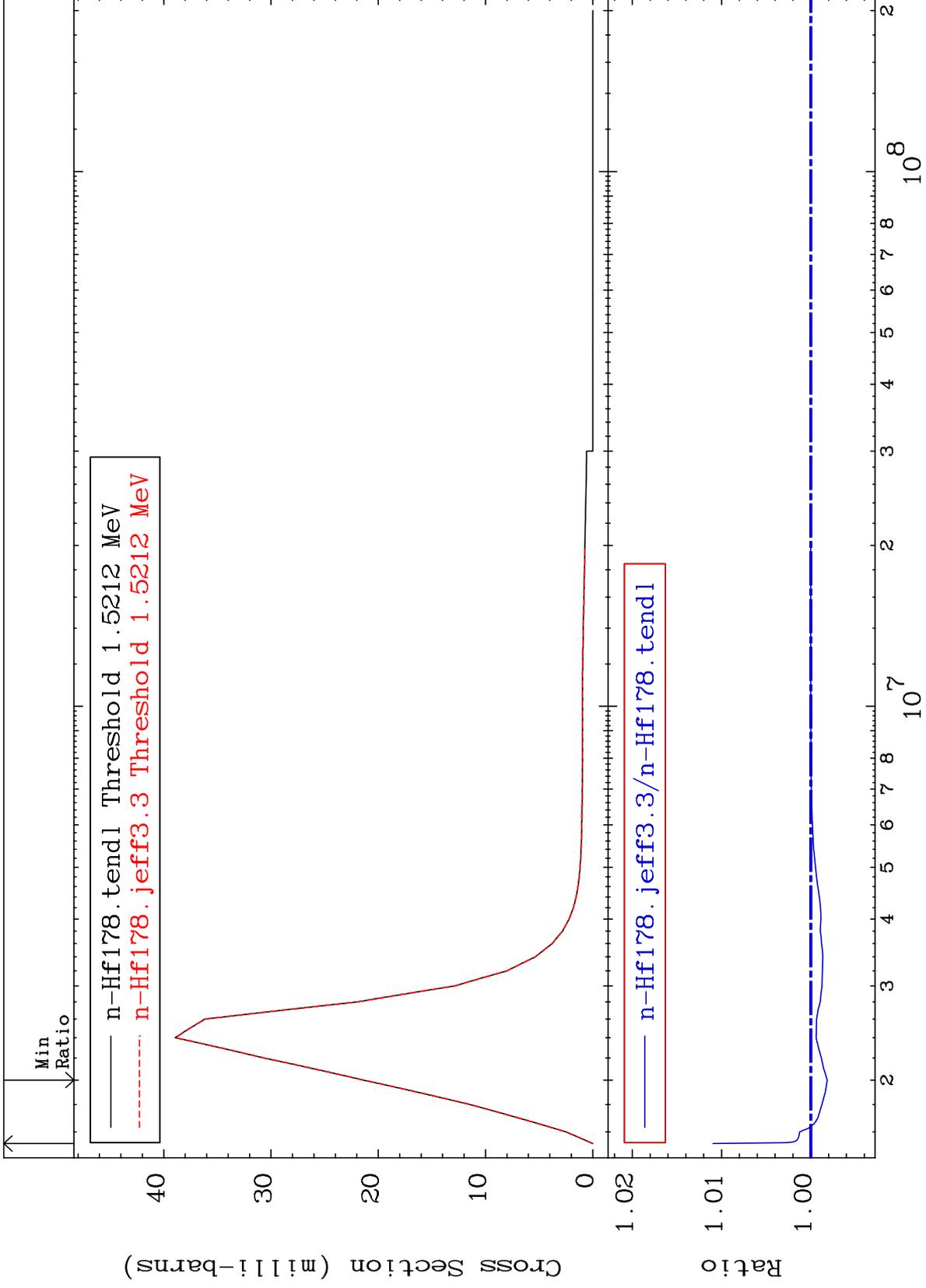
72-Hf-178
-1.777 To 0.000 %

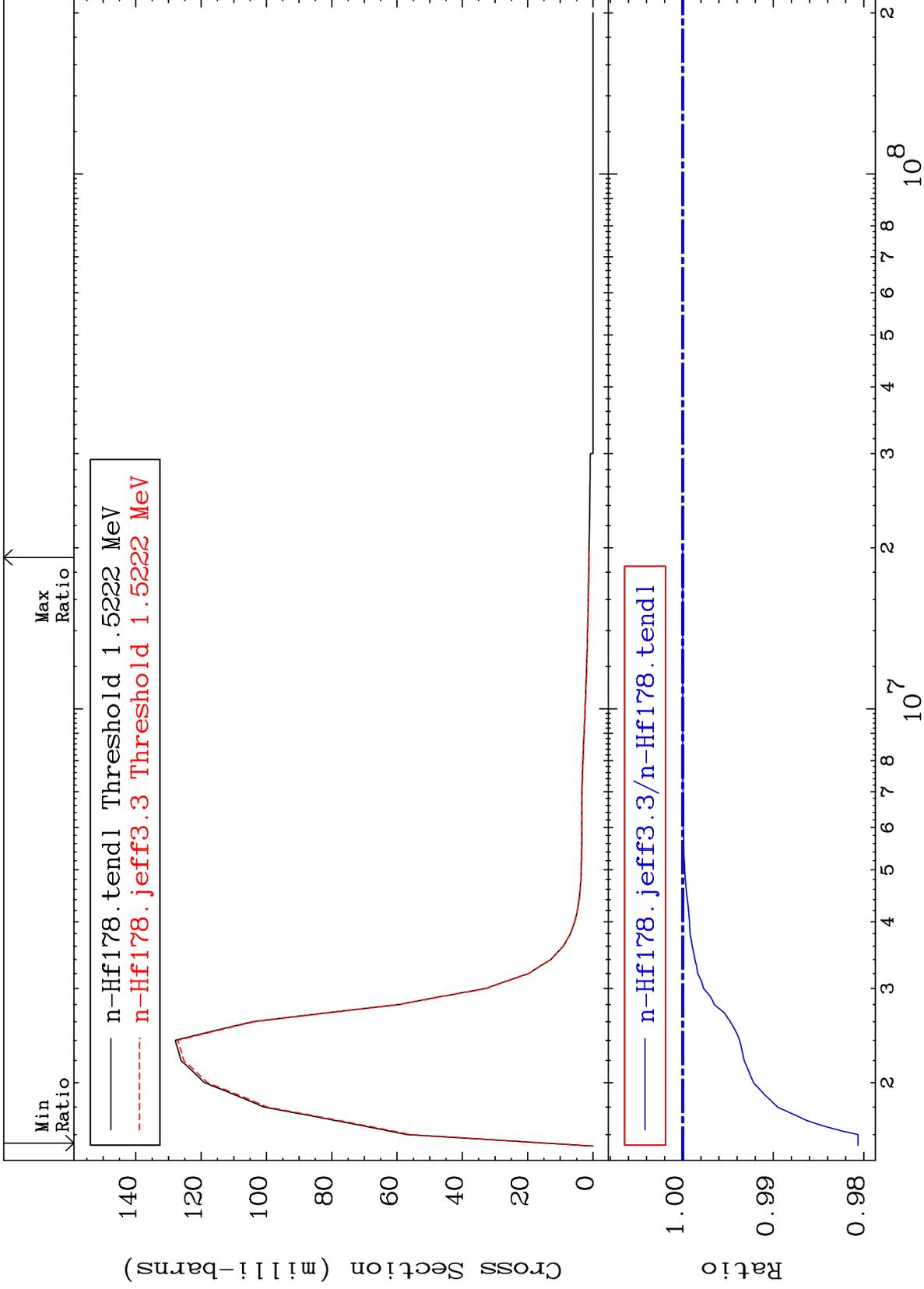


MAT 7237

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

72-Hf-178
-0.184 To 1.095 %

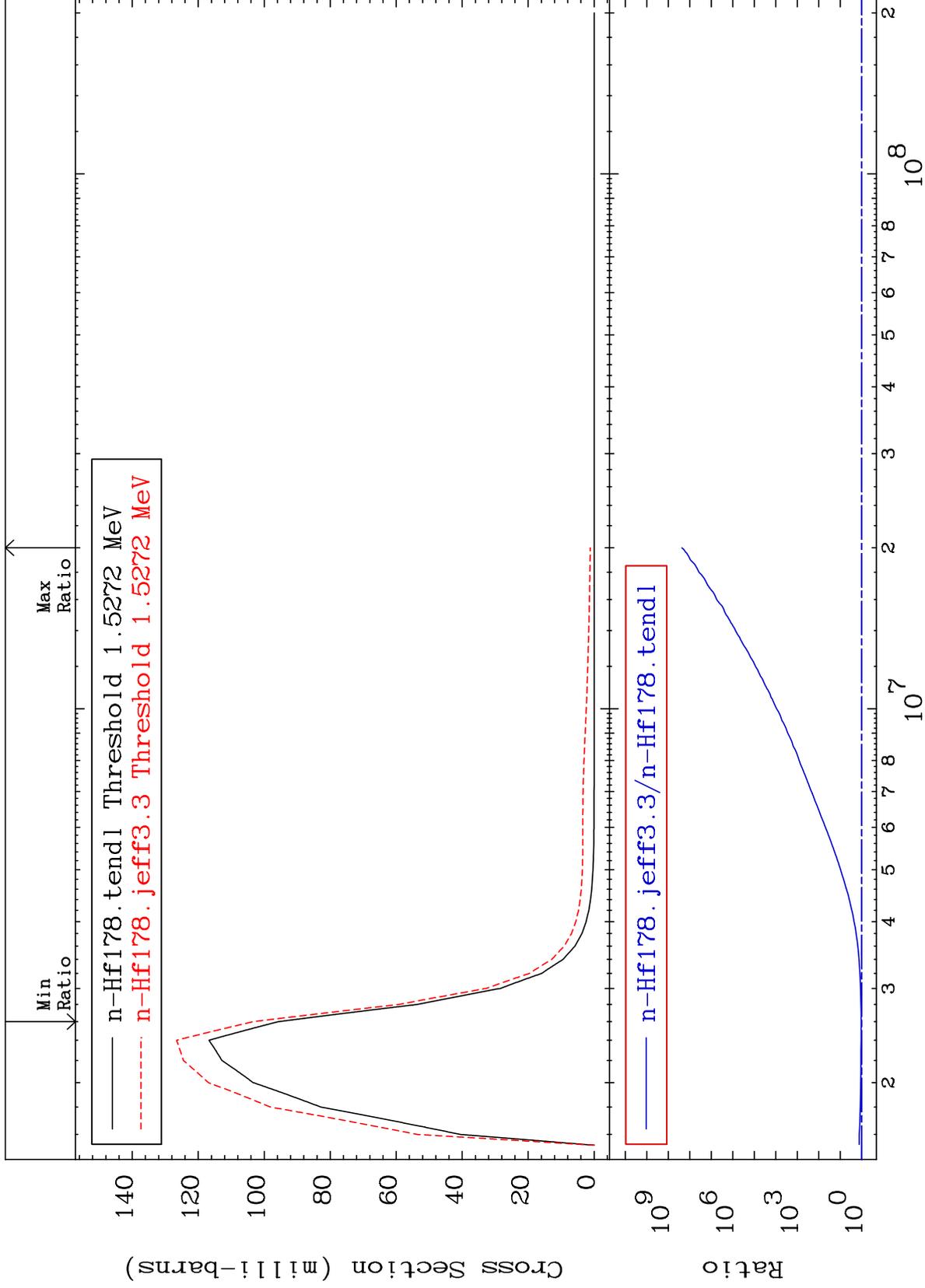




MAT 7237

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

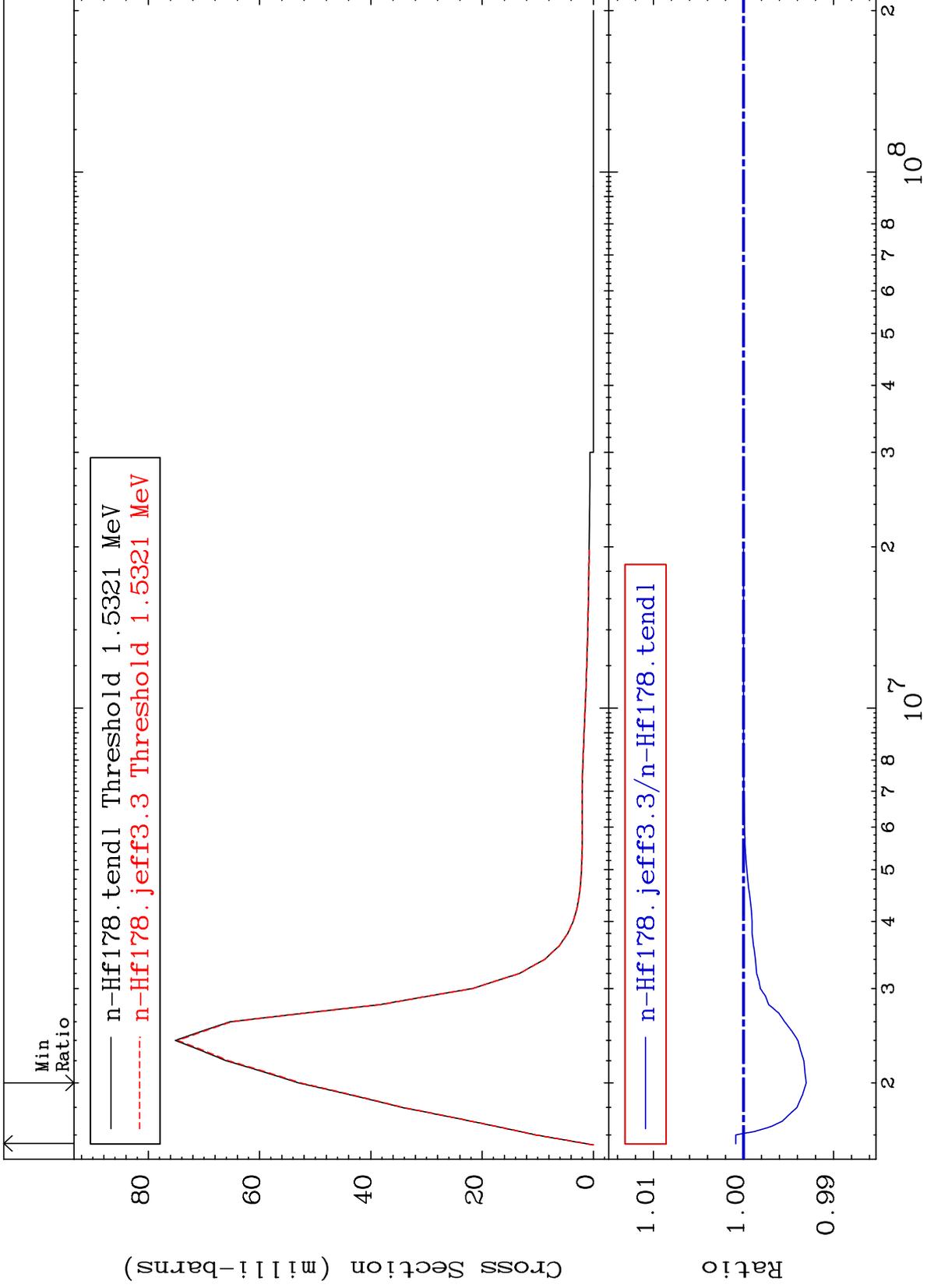
72-Hf-178
7.967 To 9999. %



MAT 7237

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

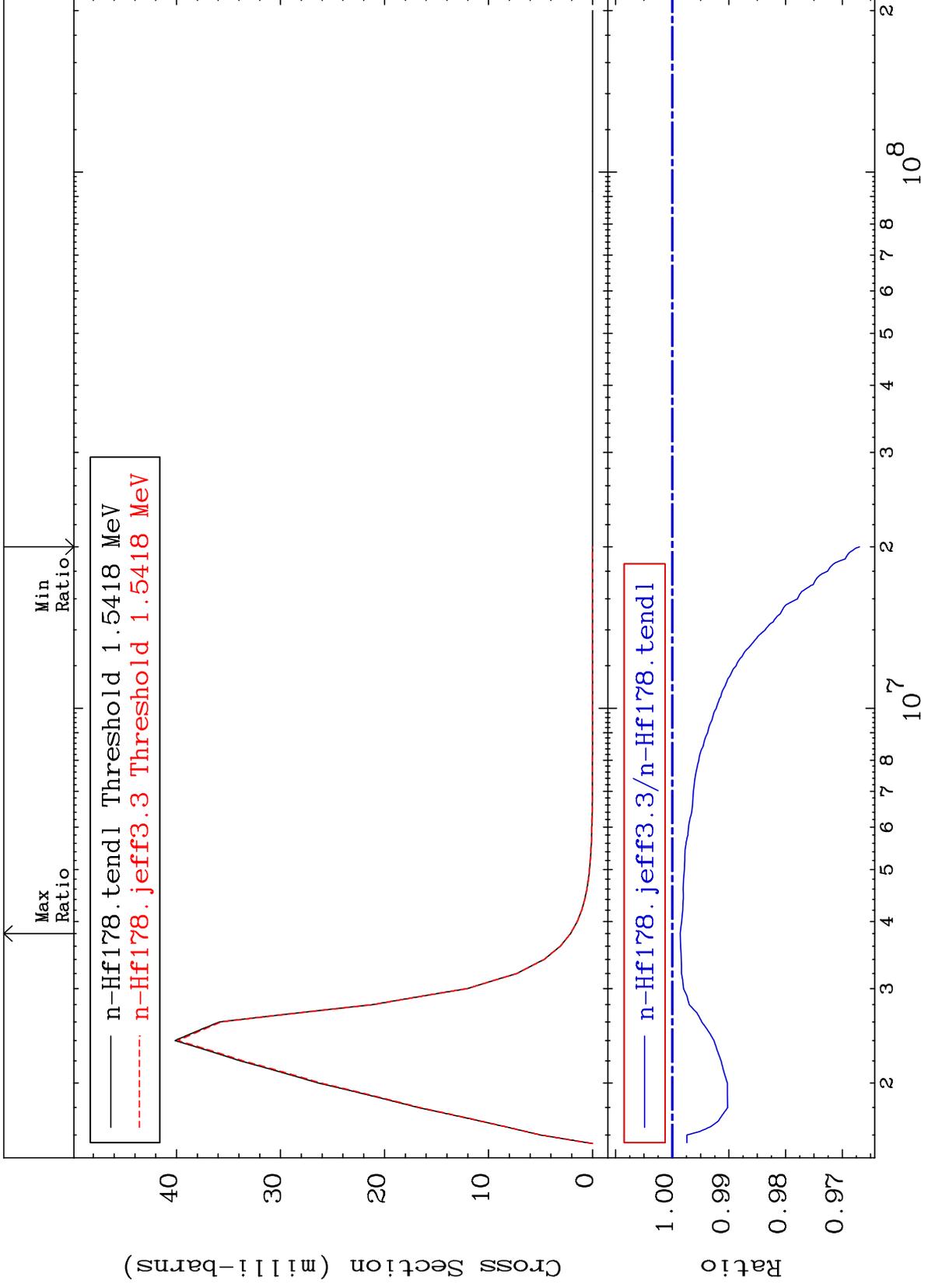
72-Hf-178
-0.697 To 0.086 %



MAT 7237

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

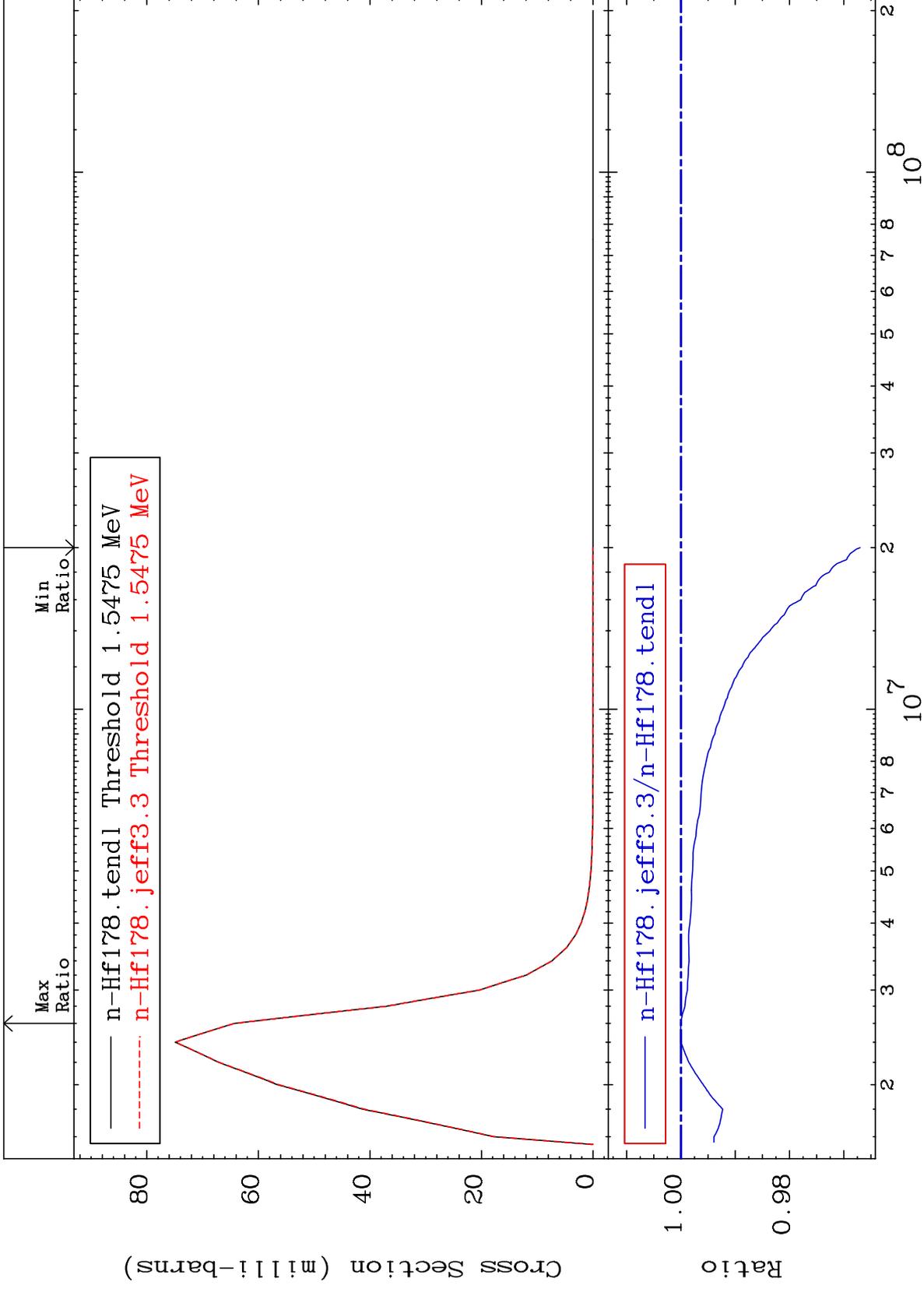
72-Hf-178
-3.304 To -0.141%



MAT 7237

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

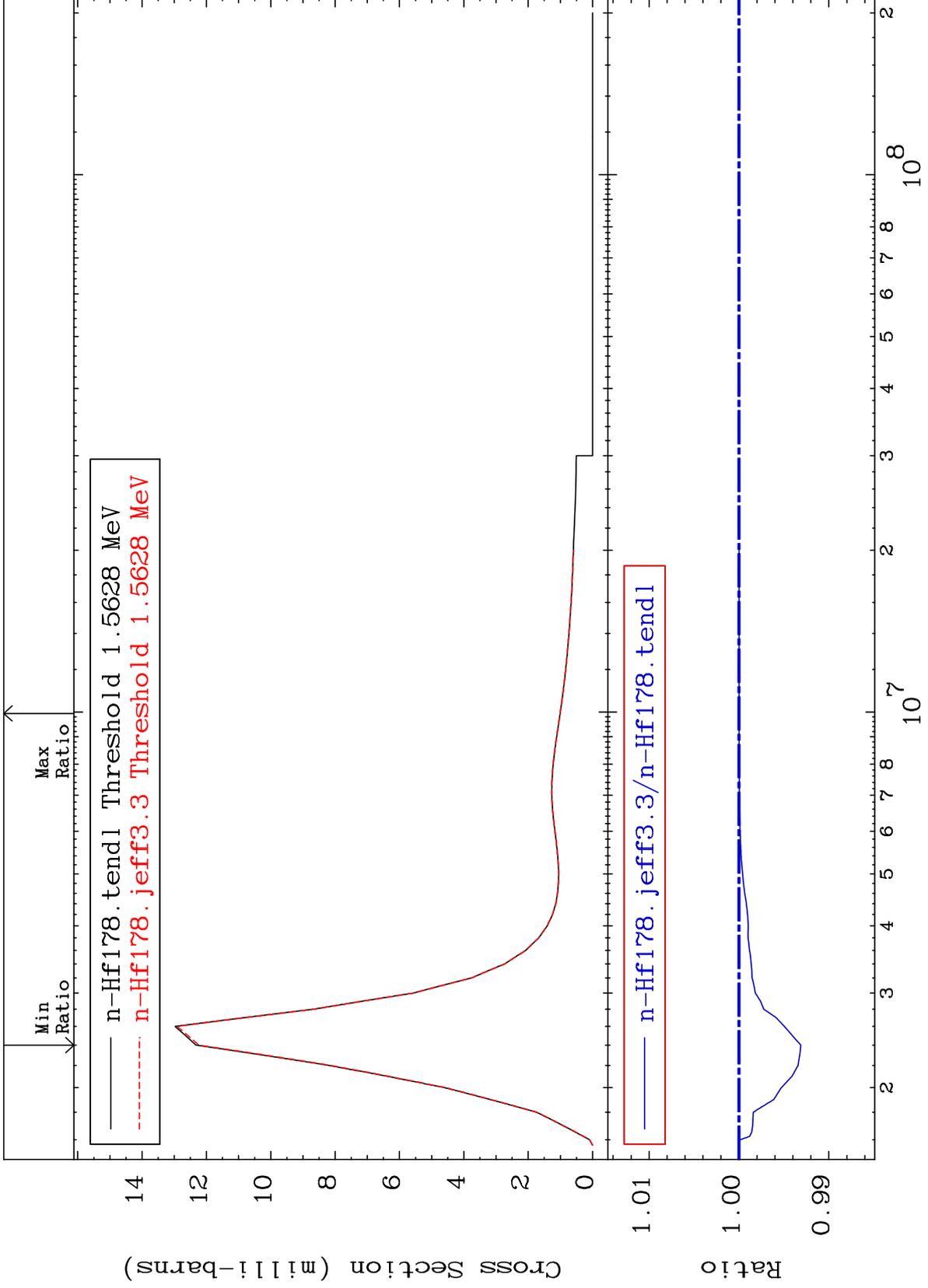
72-Hf-178
-3.302 To 0.004 %

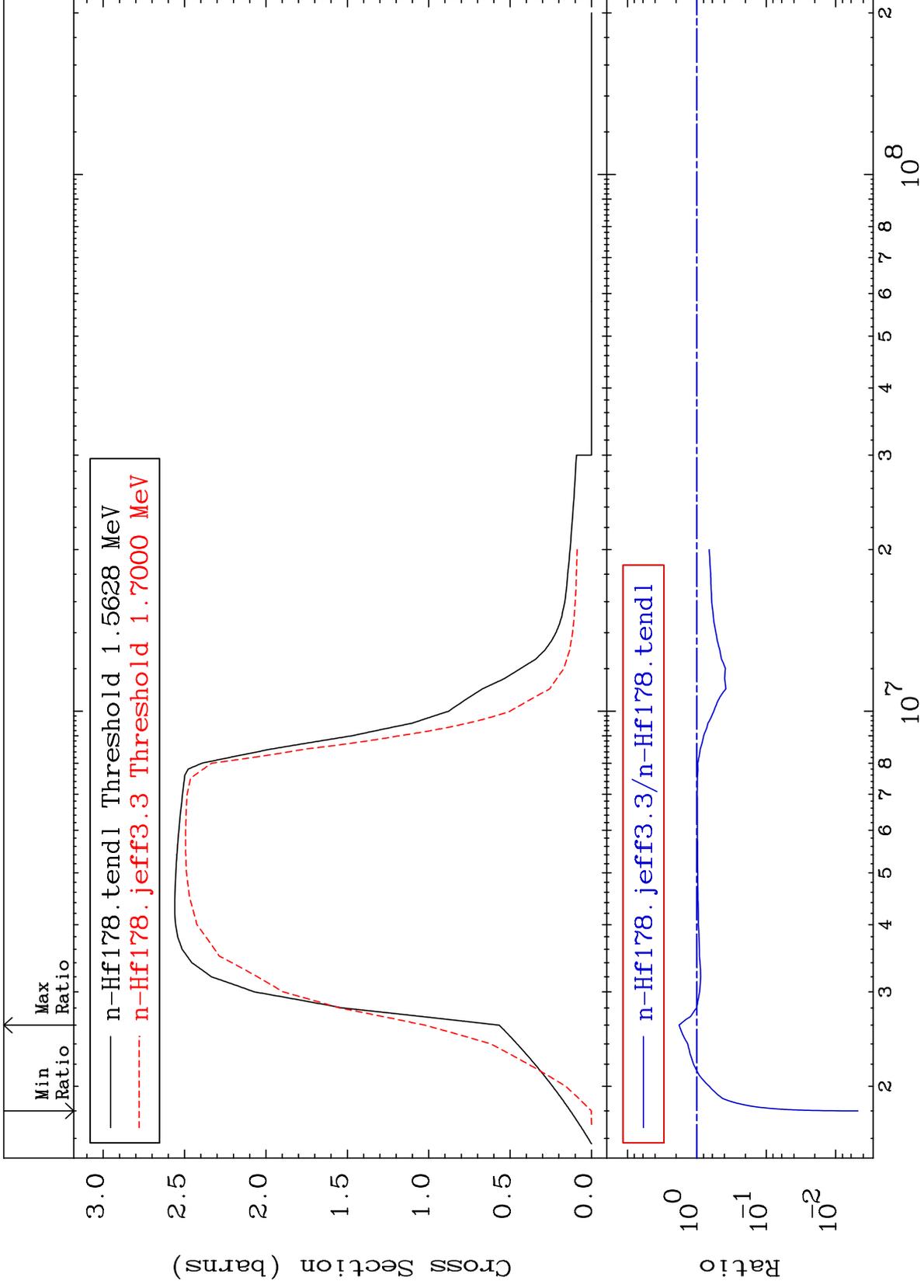


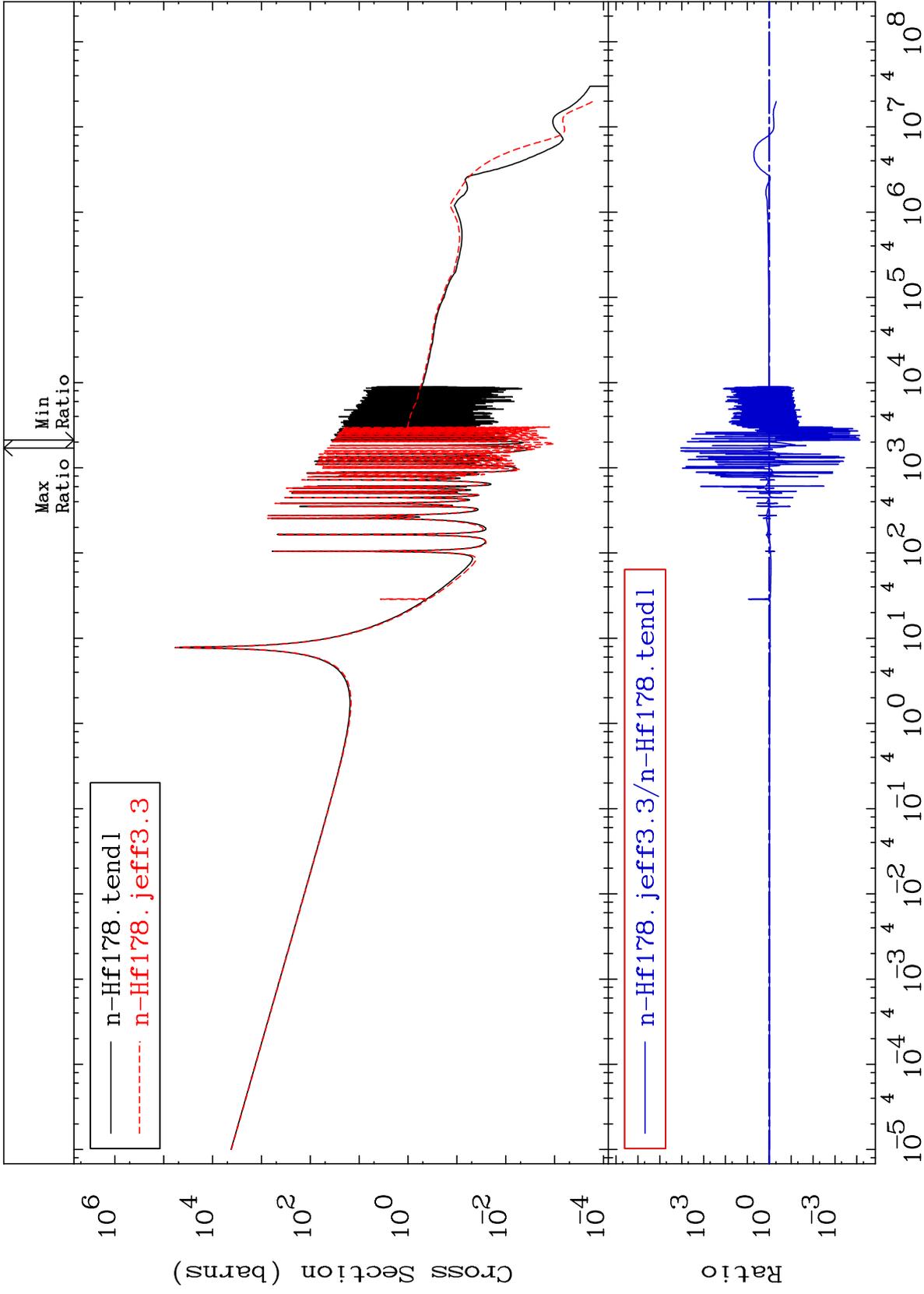
MAT 7237

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

72-Hf-178
-0.687 To 0.000 %

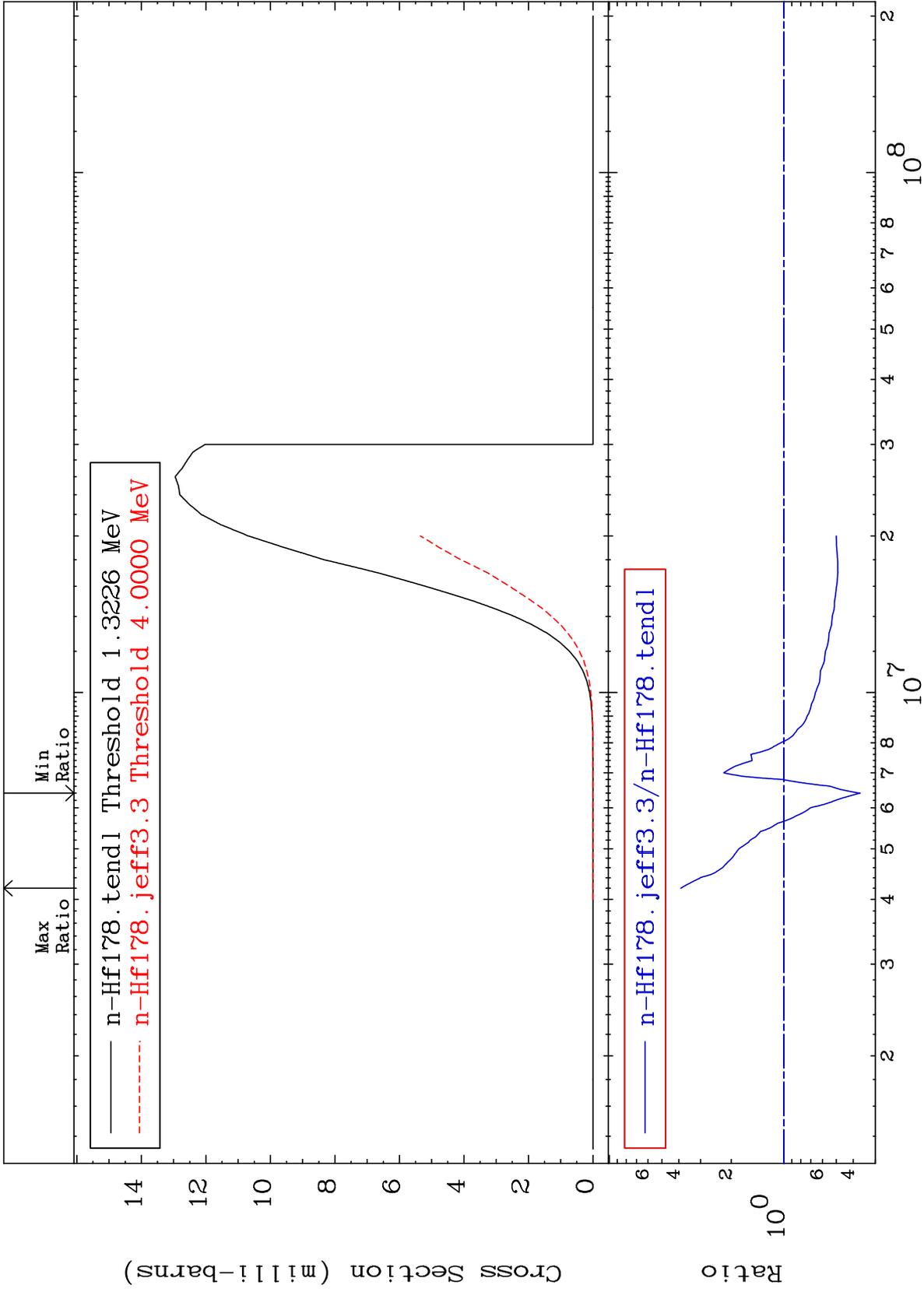






Cross Section

-63.45 To 289.5 %



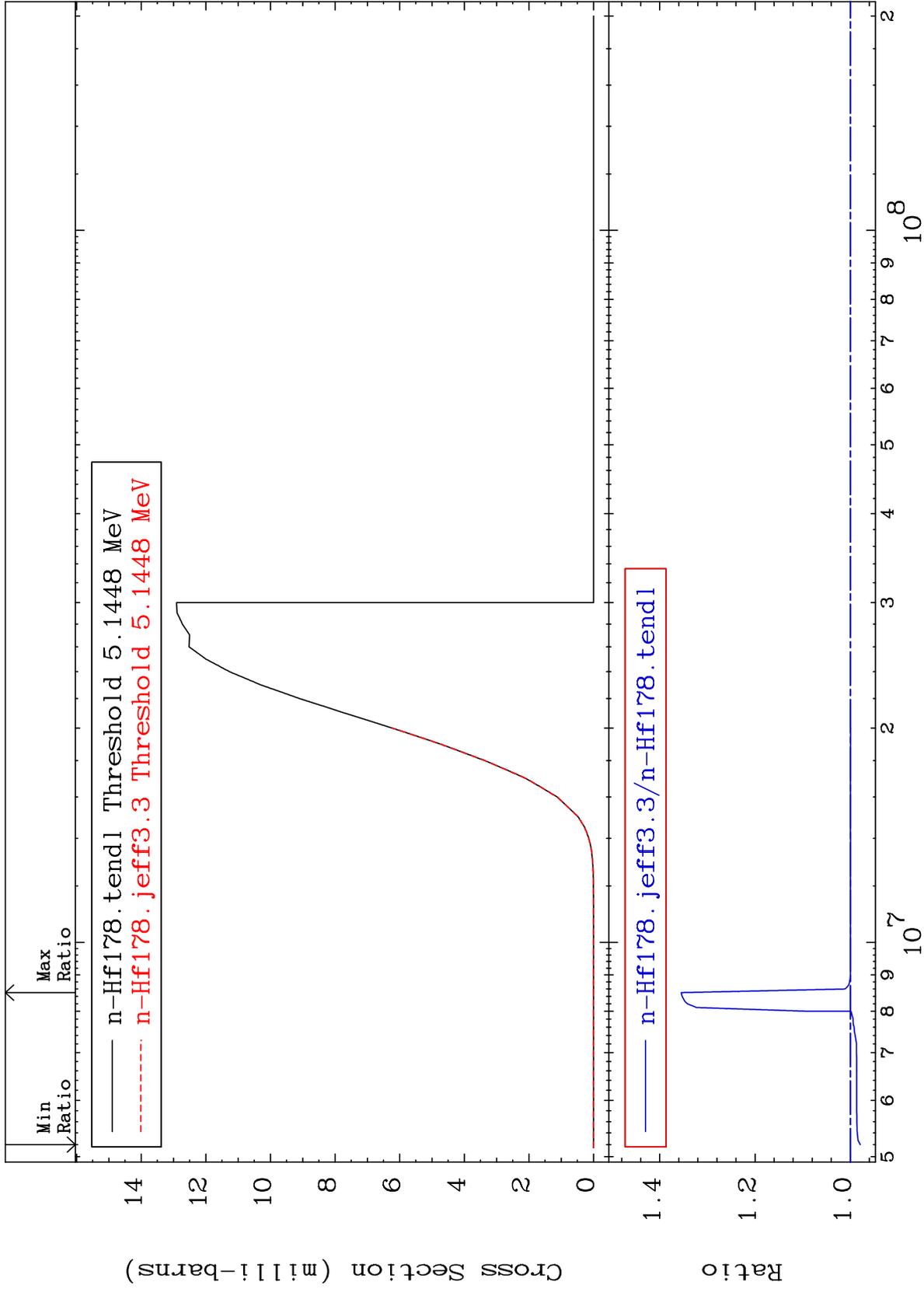
MAT 7237

(n, d)

72-Hf-178

Cross Section

-2.071 To 35.50 %



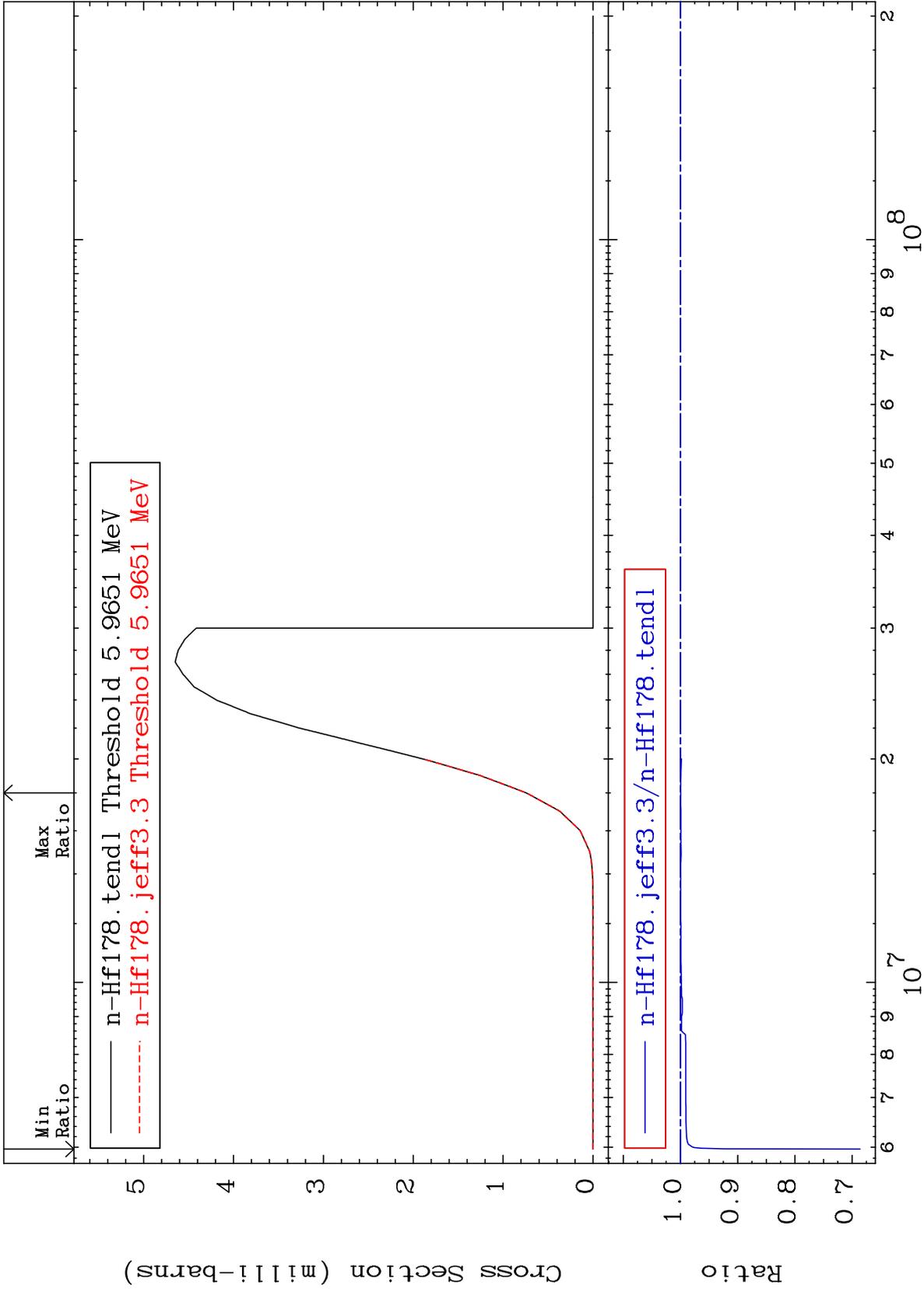
45

Incident Energy (eV)

72-Hf-178

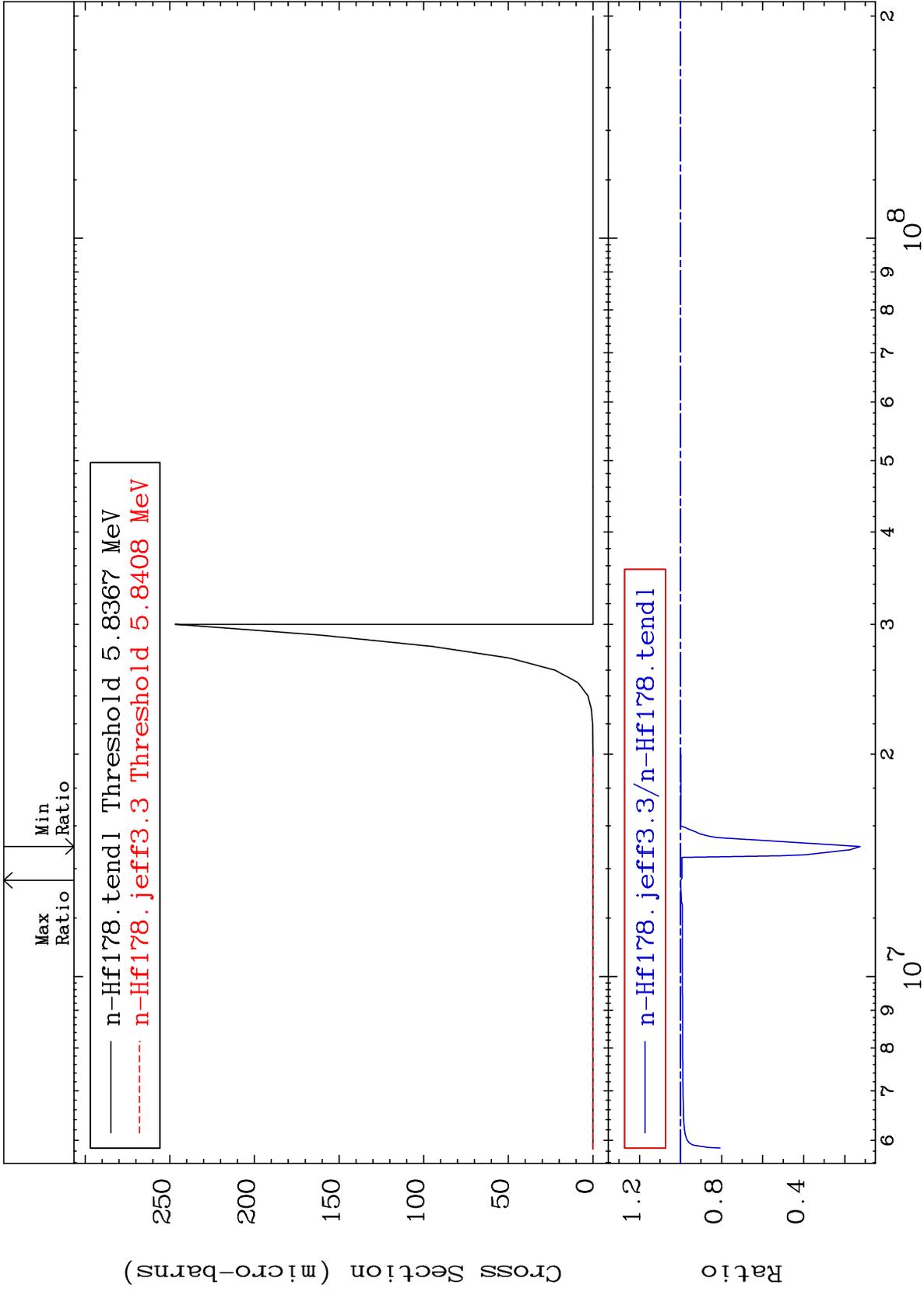
Cross Section

-31.40 To -0.057%



Cross Section

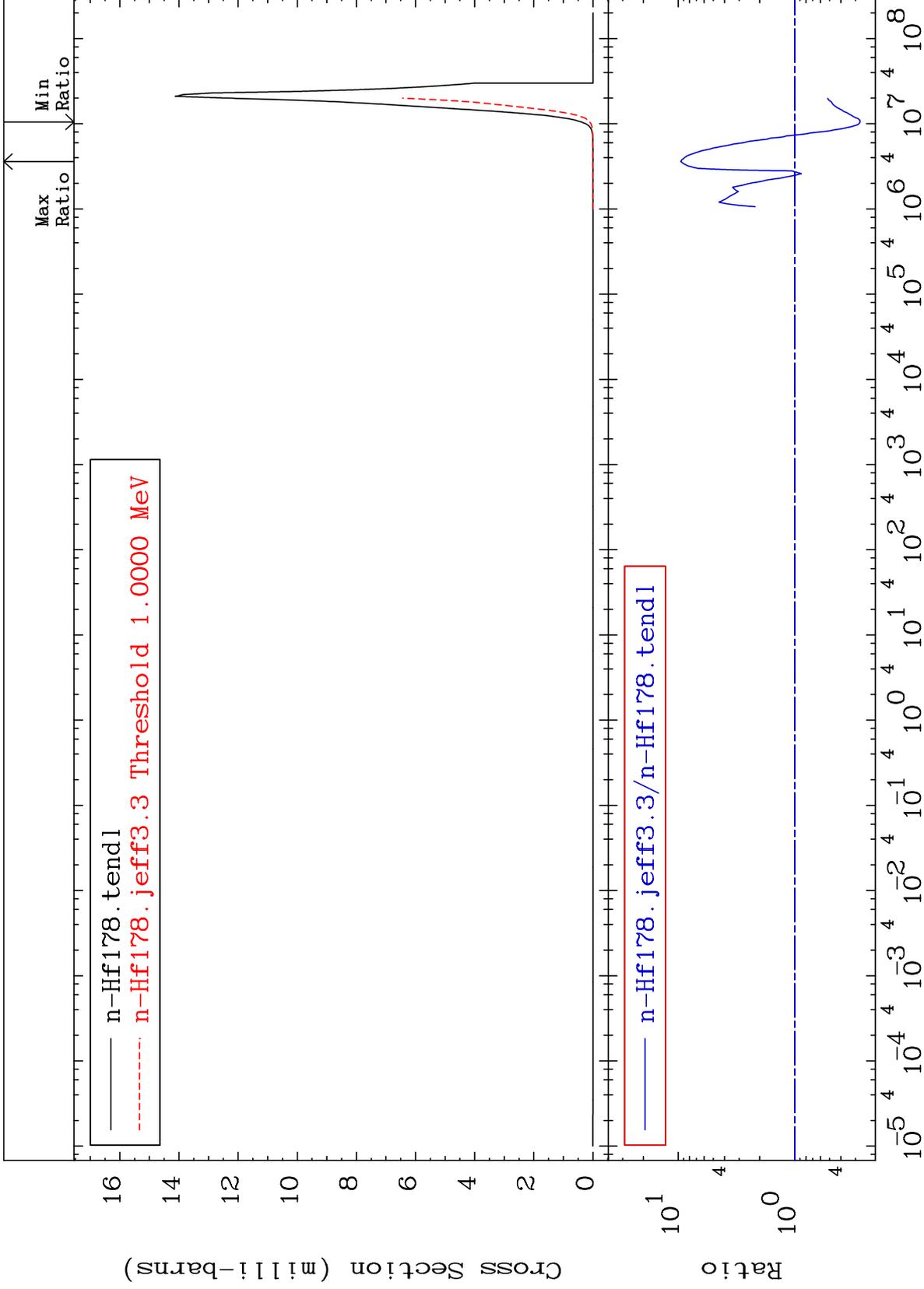
-87.48 To -0.107%



MAT 7237

(n, α)
Cross Section

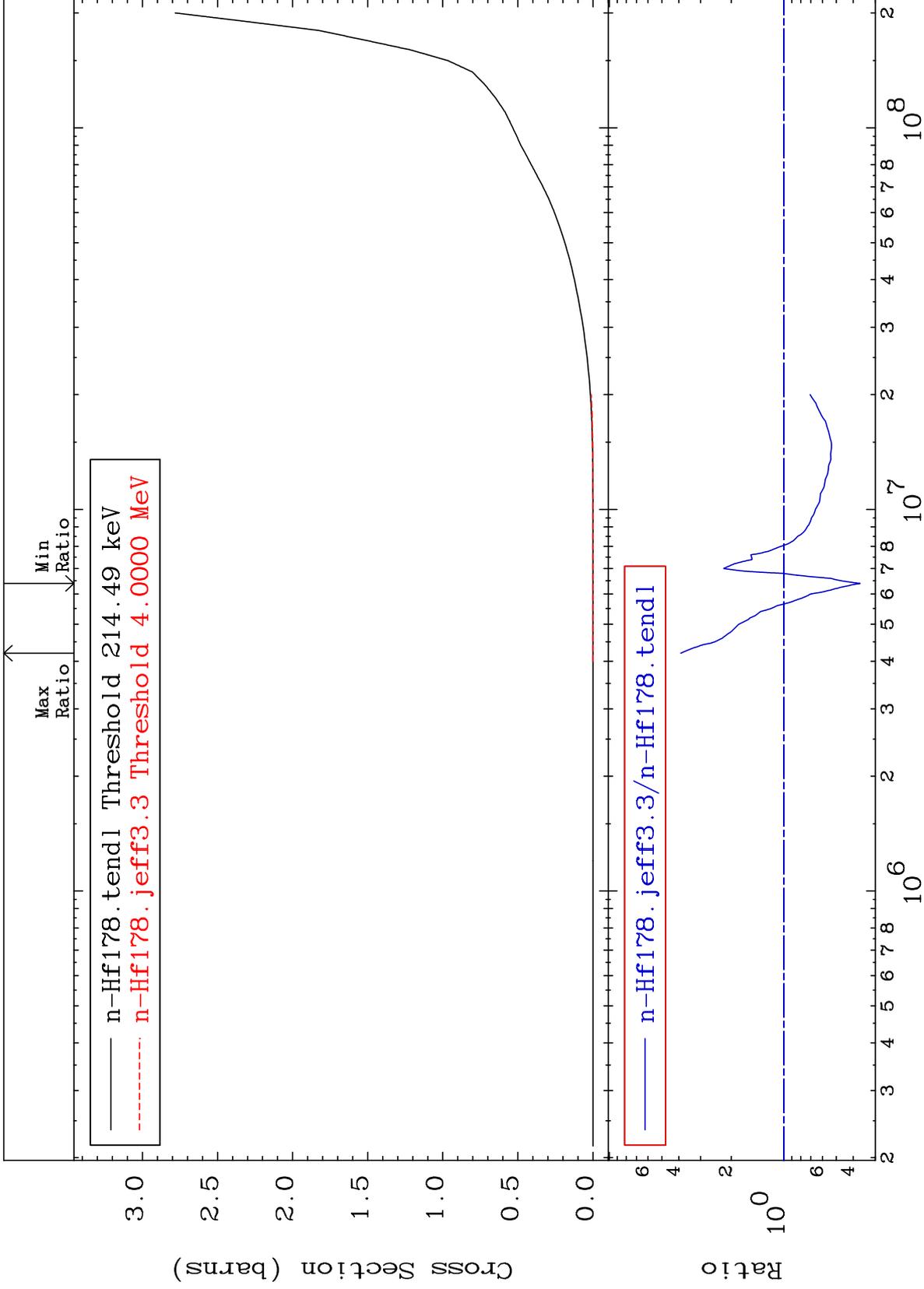
72-Hf-178
-72.62 To 852.0 %



Incident Energy (eV)

72-Hf-178

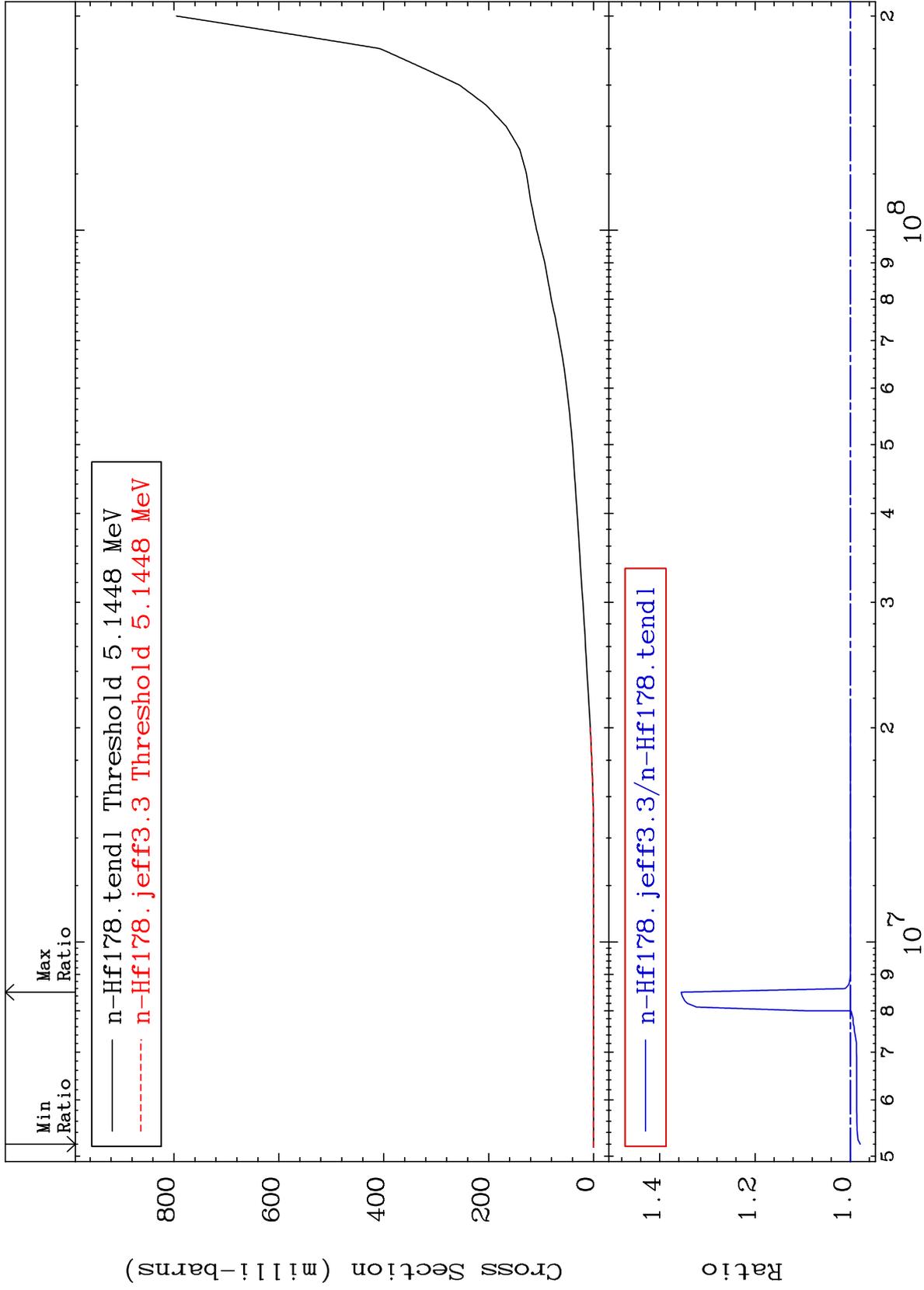
48



MAT 7237

Deuterium Production
Cross Section

⁷²Hf-178
-2.071 To 35.50 %



50

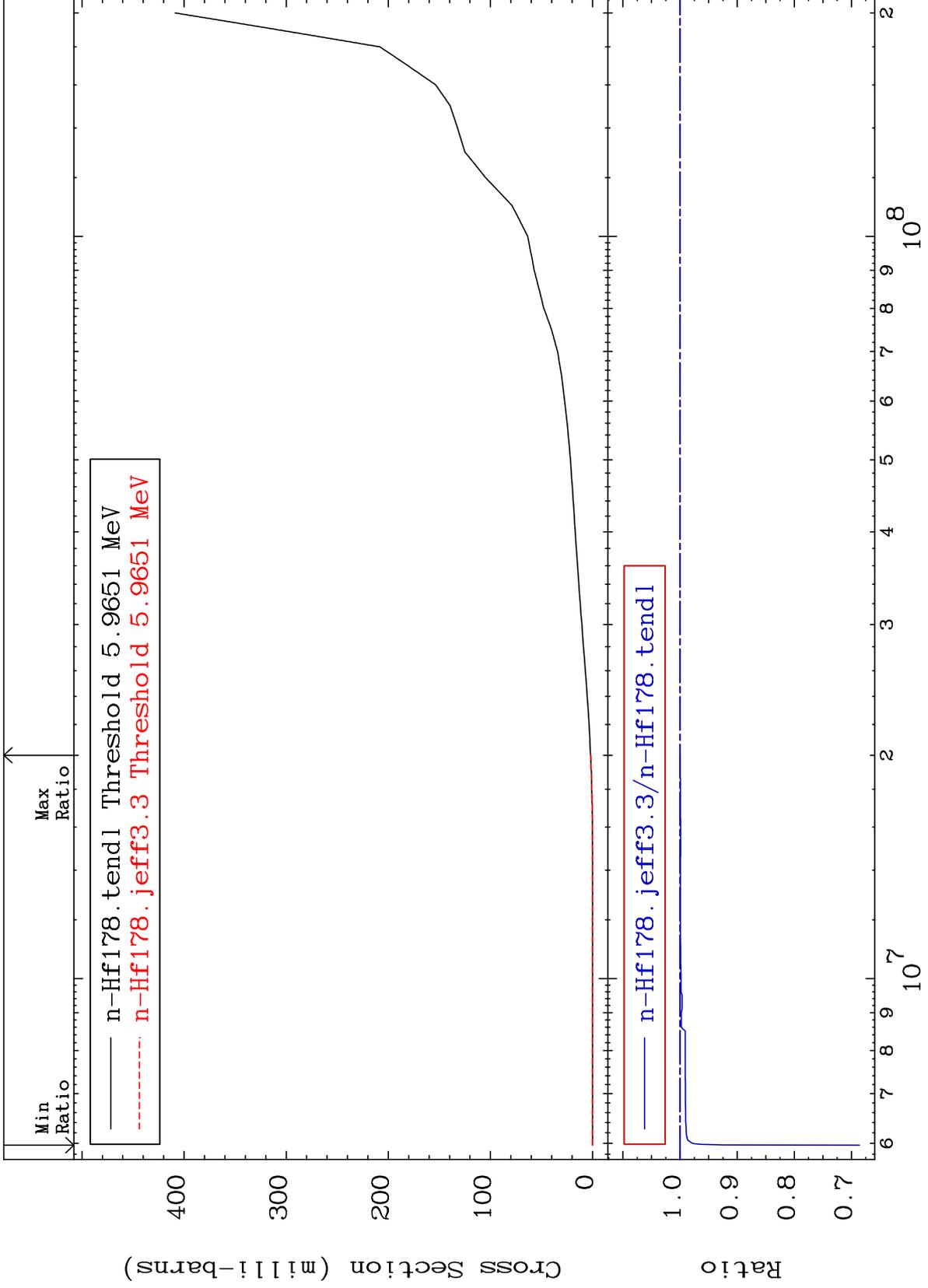
Incident Energy (eV)

⁷²Hf-178

MAT 7237

Tritium Production
Cross Section

$^{72}\text{Hf-178}$
-31.40 To -0.034%



51

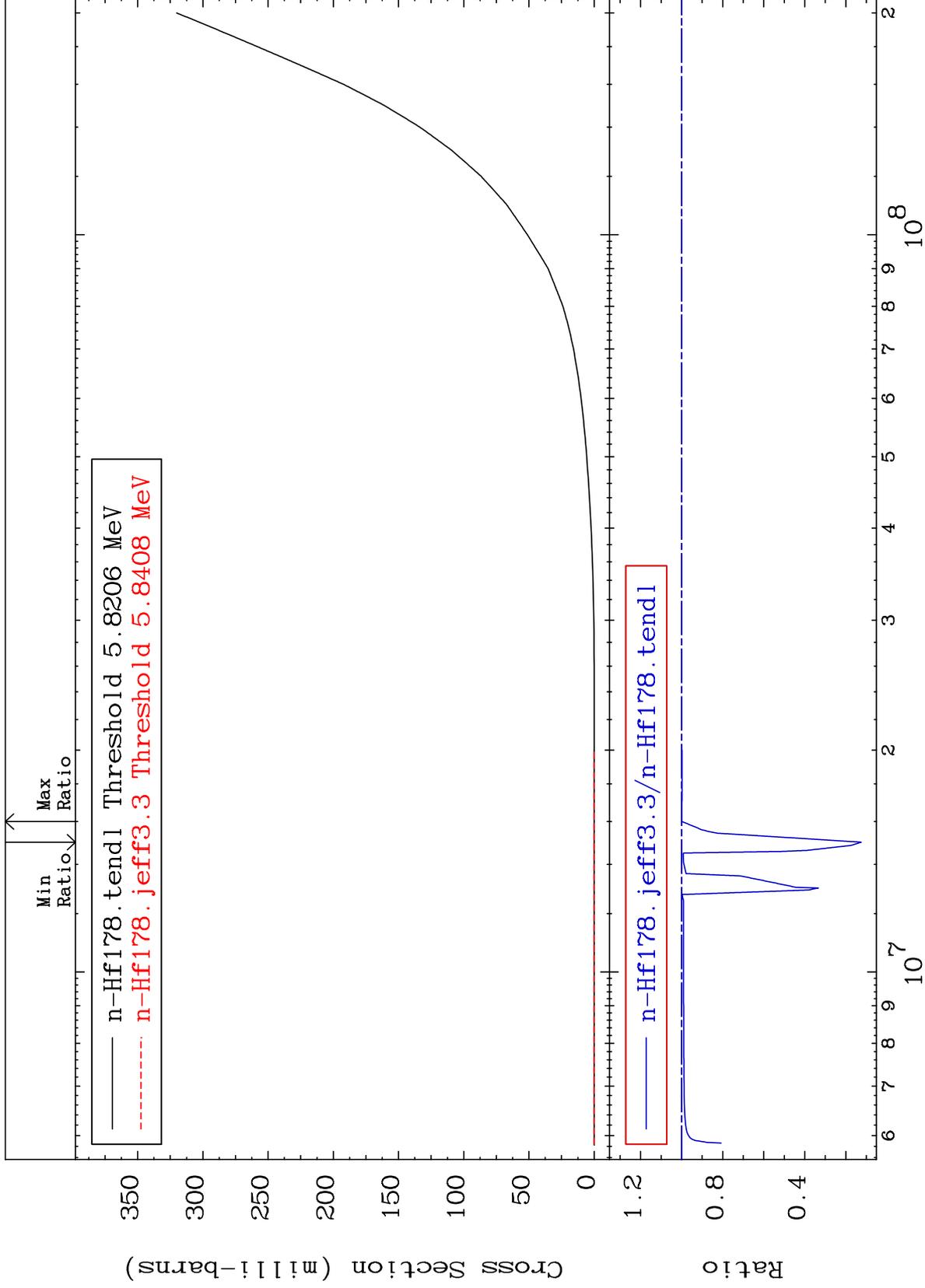
Incident Energy (eV)

$^{72}\text{Hf-178}$

MAT 7237

He-3 Production
Cross Section

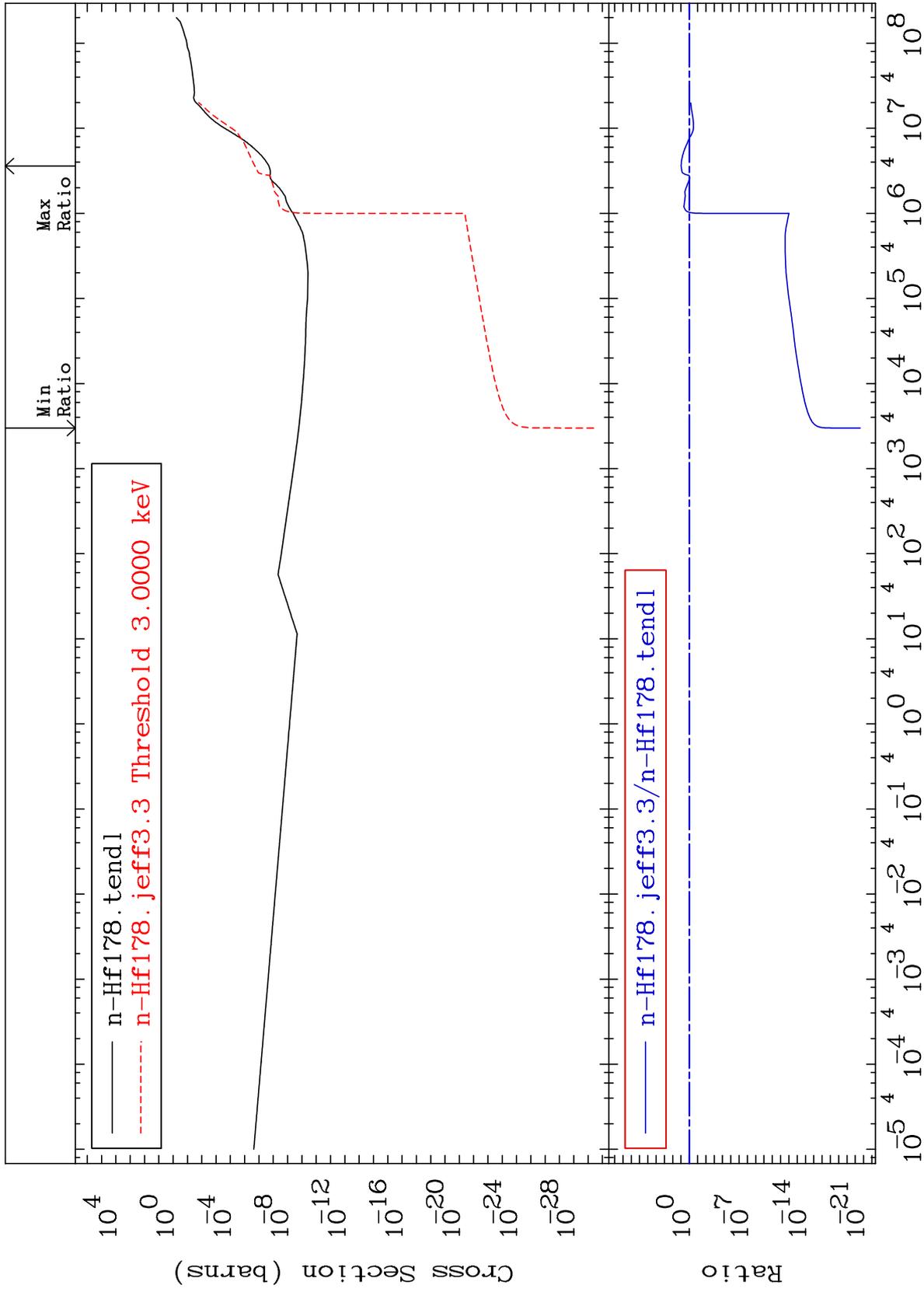
⁷²Hf-178
-87.48 To -0.120%

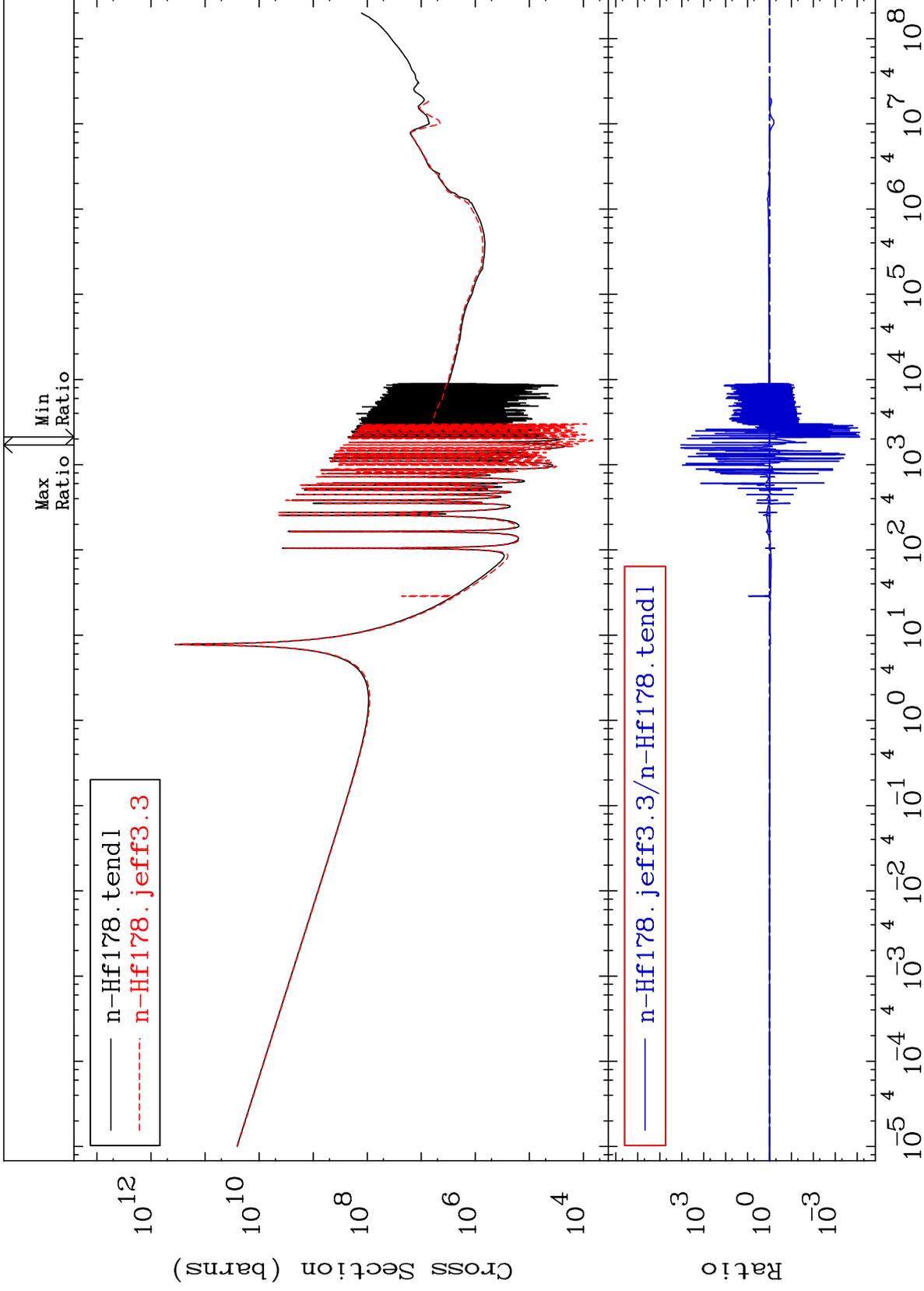


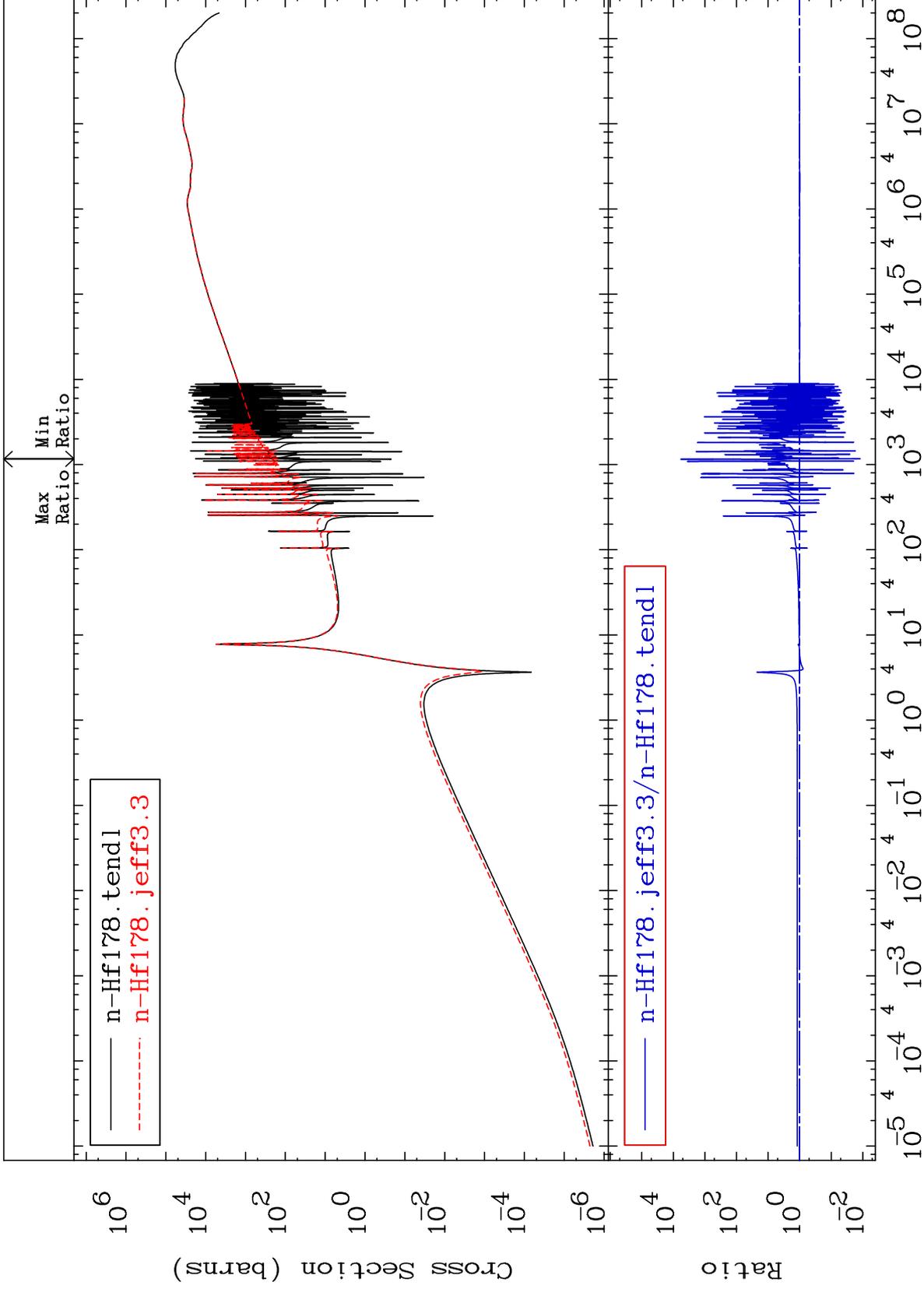
52

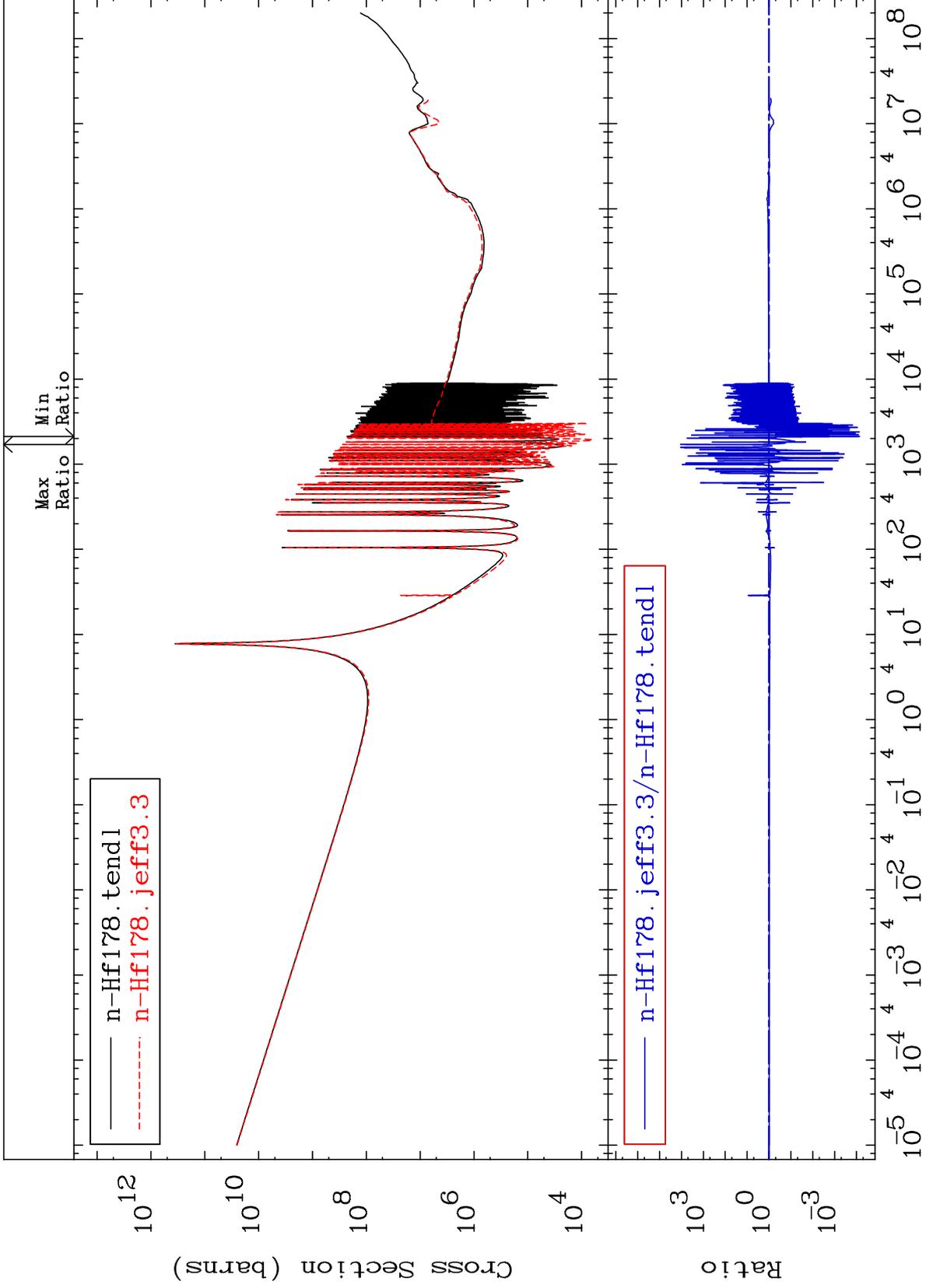
Incident Energy (eV)

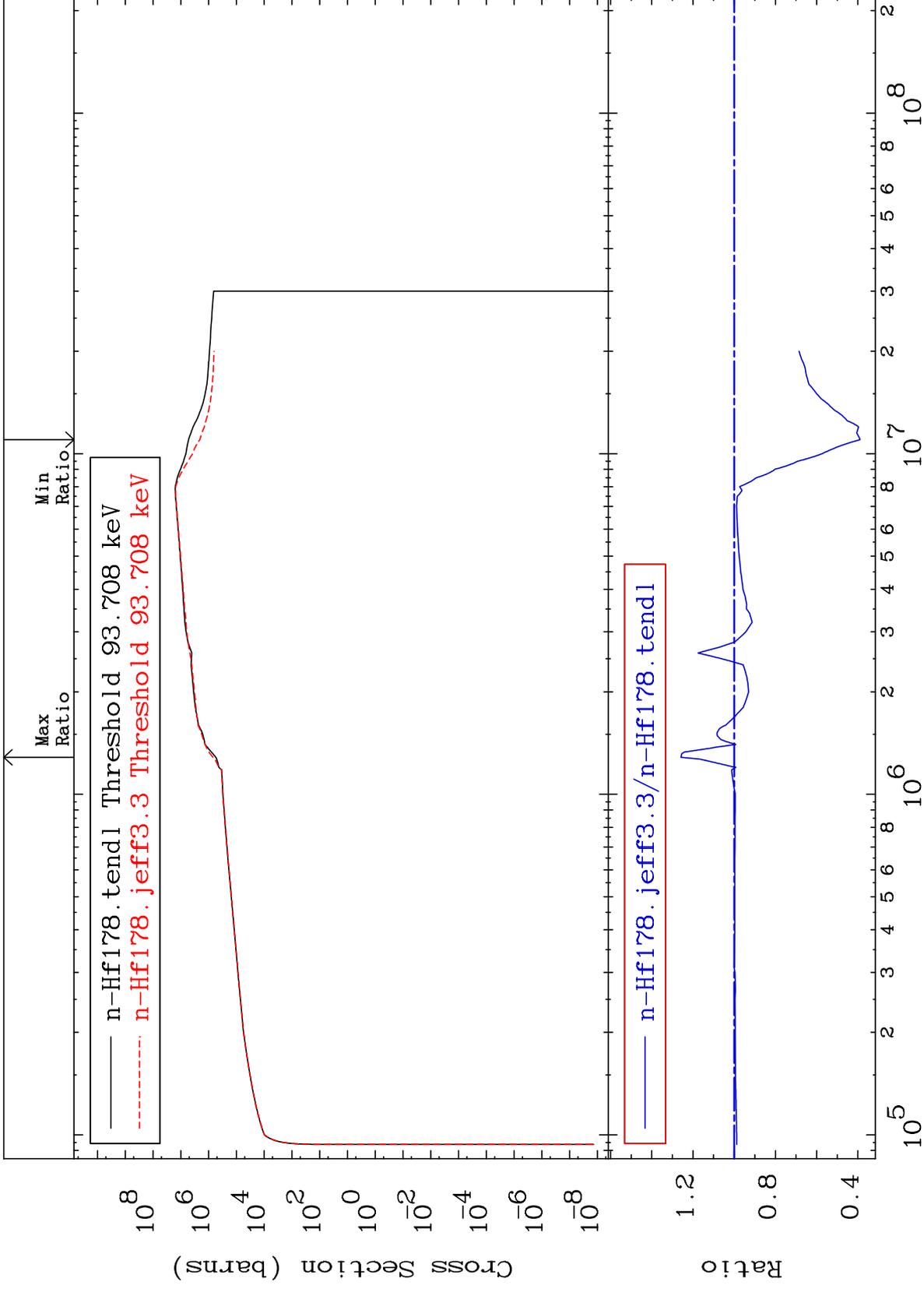
⁷²Hf-178







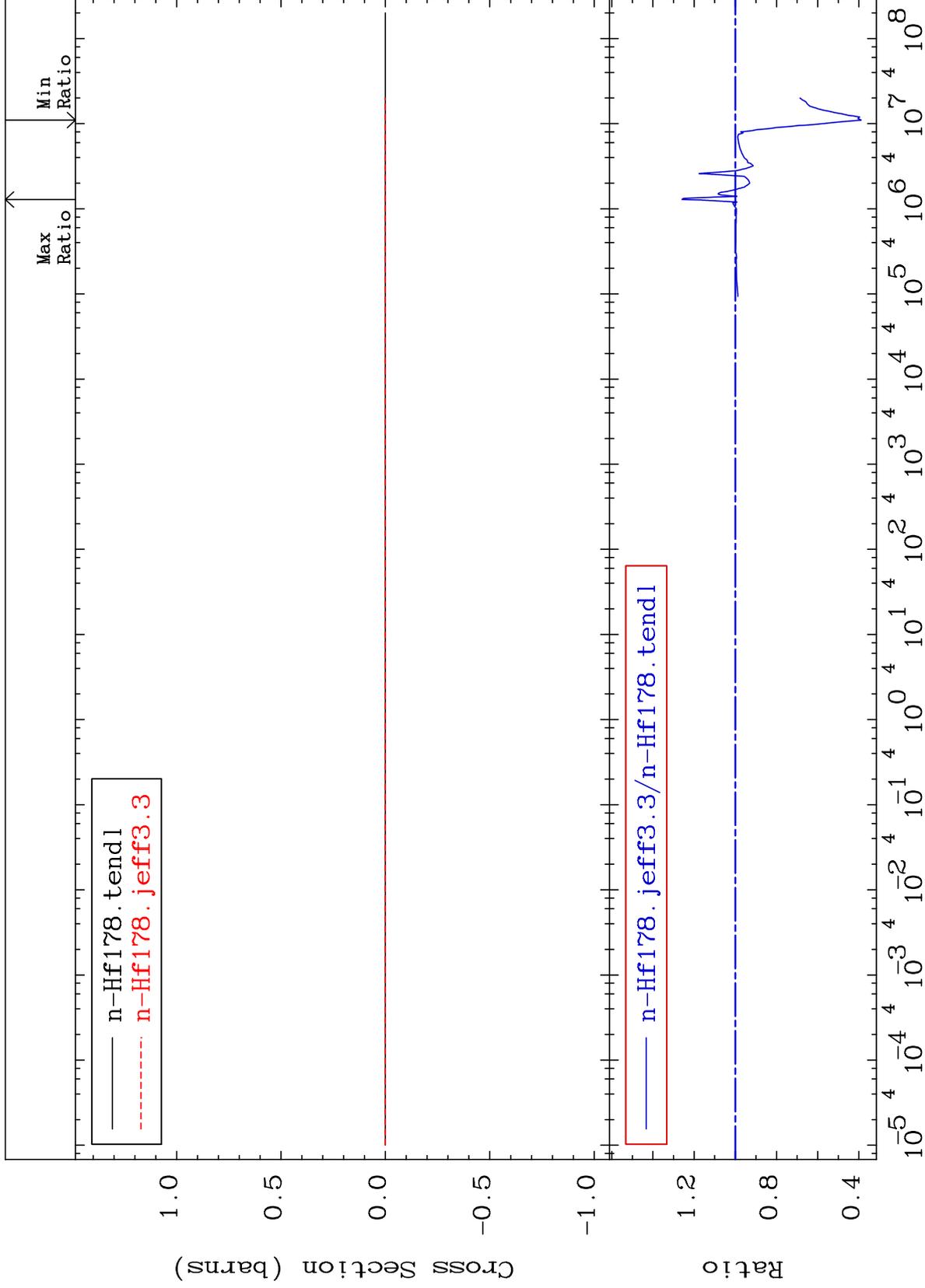


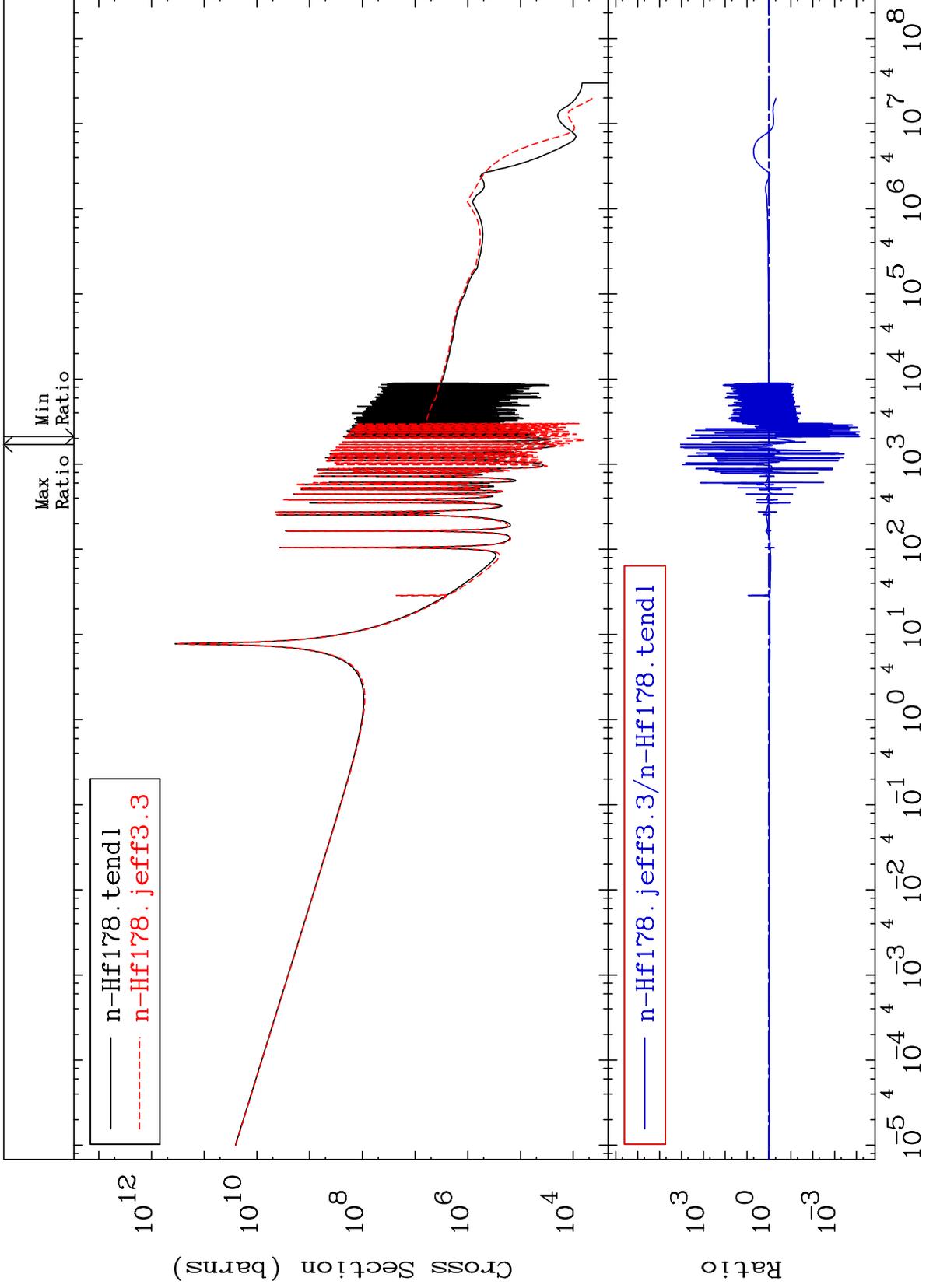


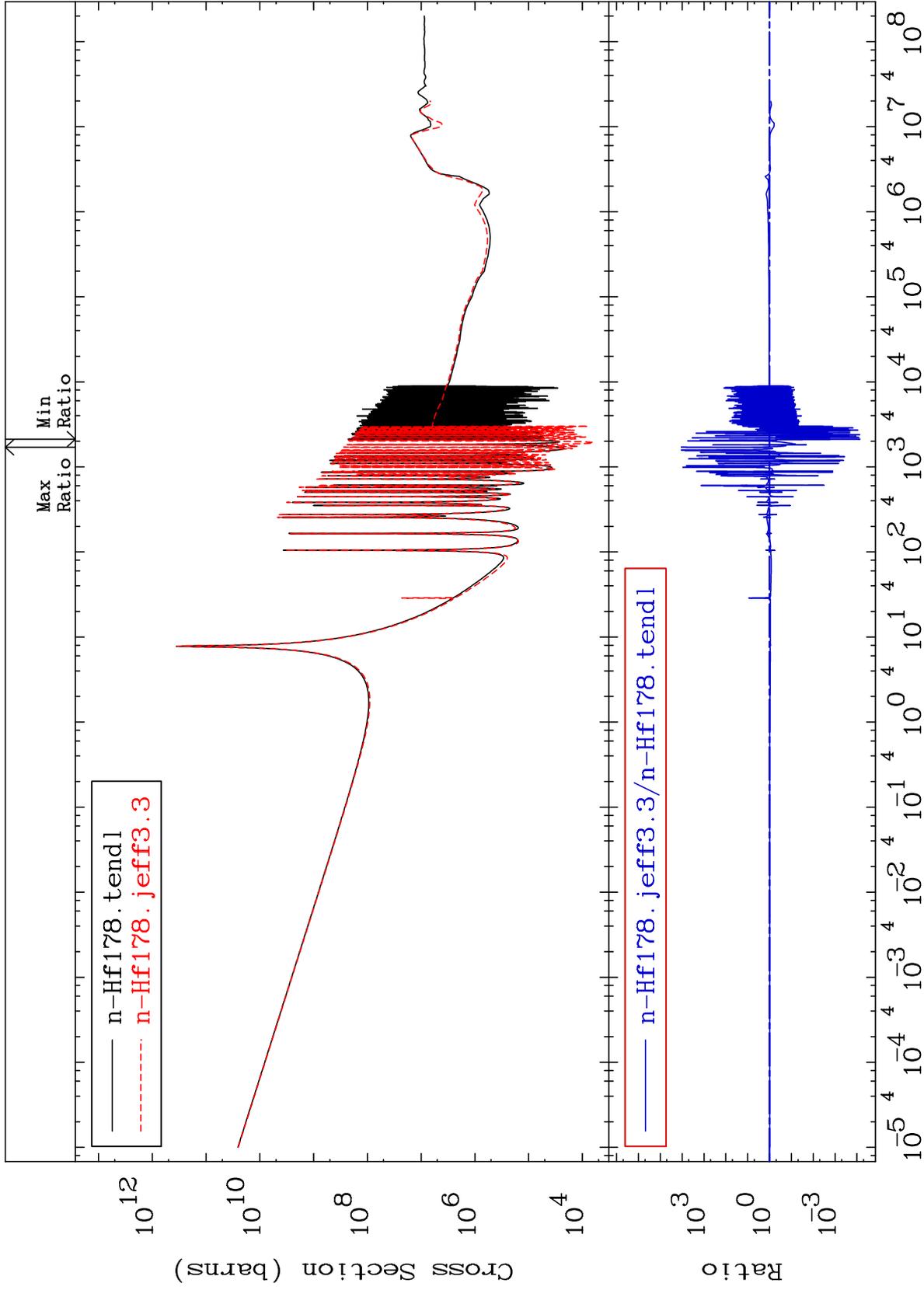
MAT 7237

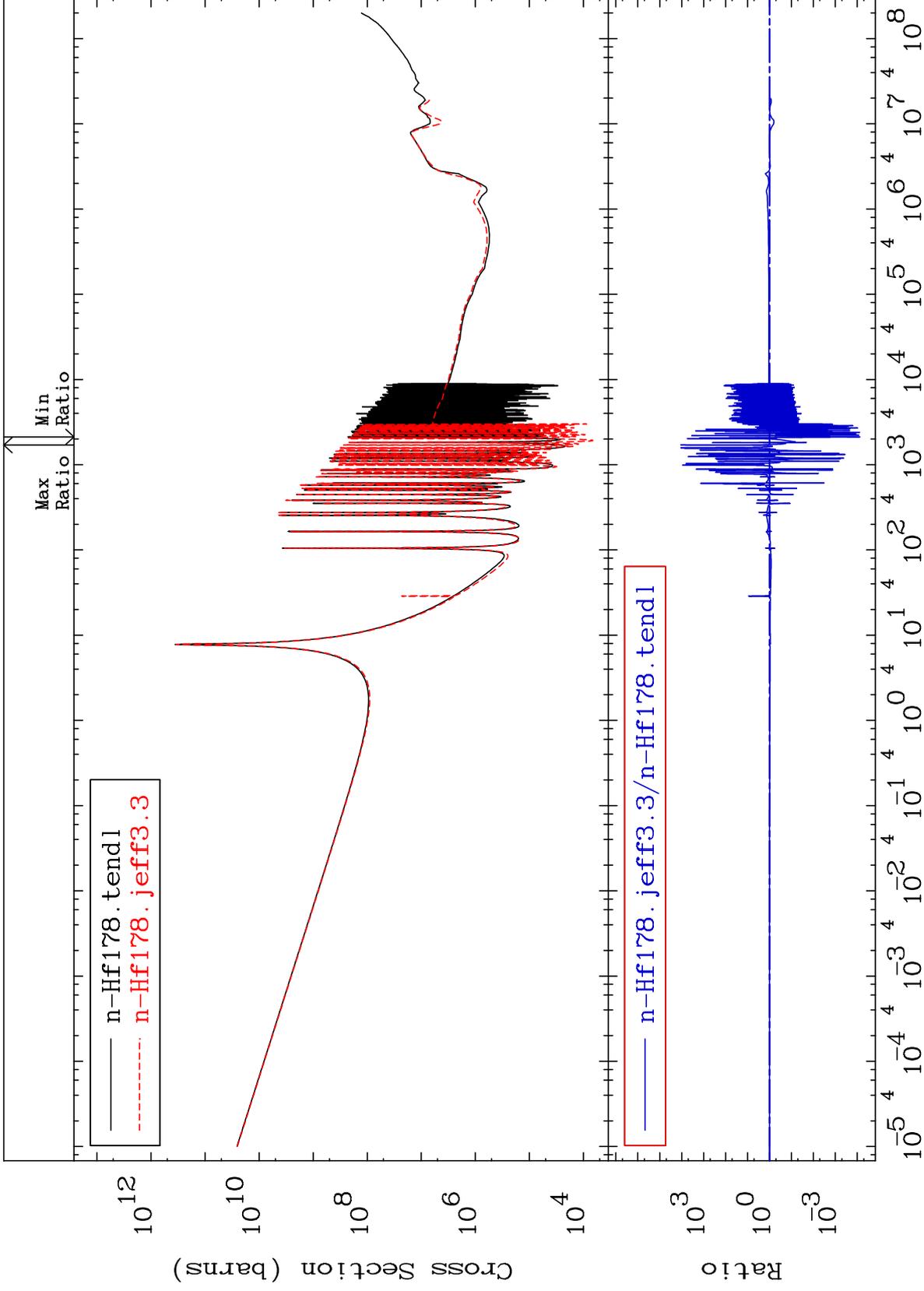
Kerma fission (mt18 or mt19-20-21-38)
Cross Section

72-Hf-178
-61.09 To 25.93 %





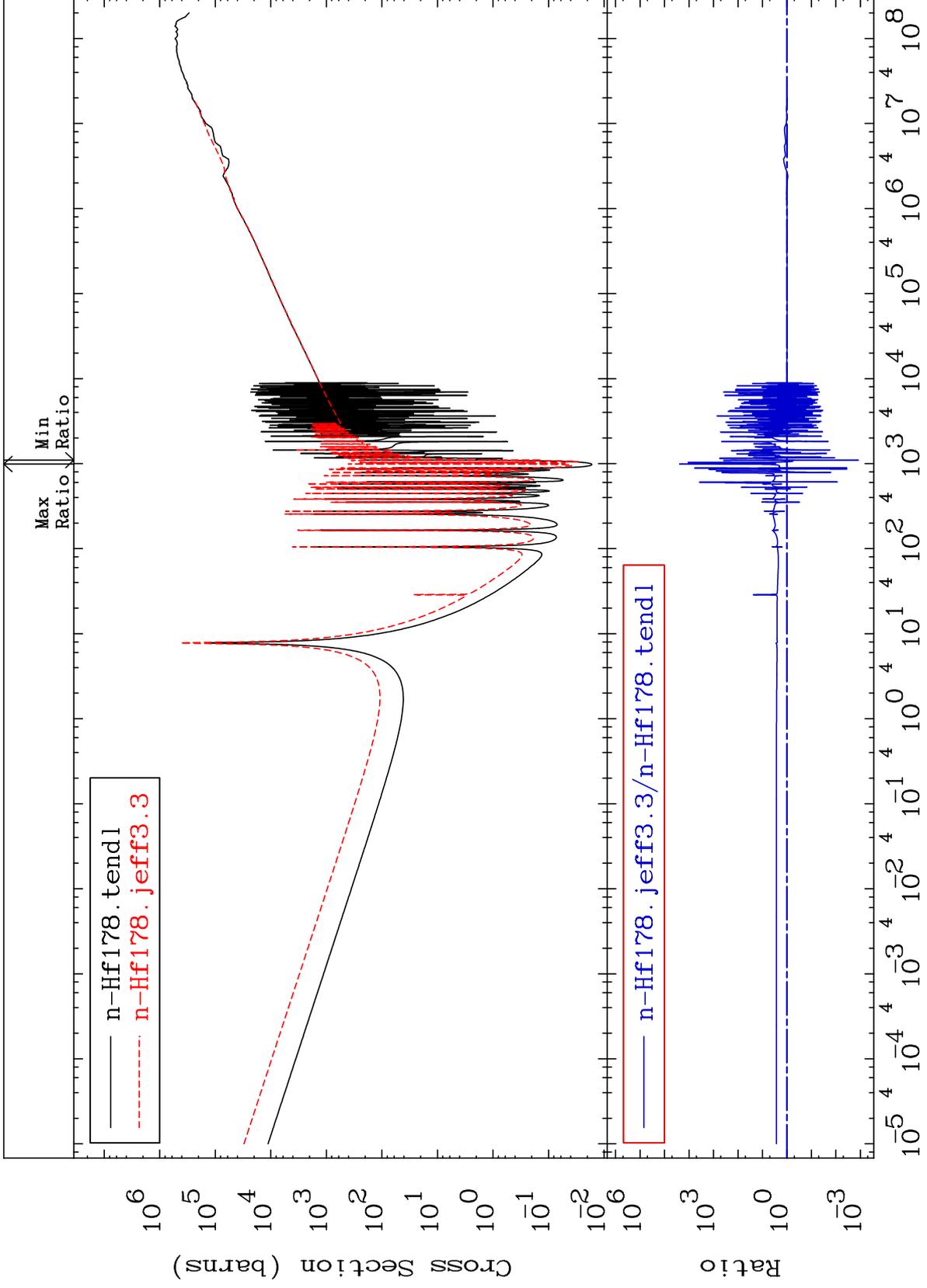




MAT 7237

Dpa total (eV-barns)
Cross Section

72-Hf-178
-99.88 To 9999. %



62

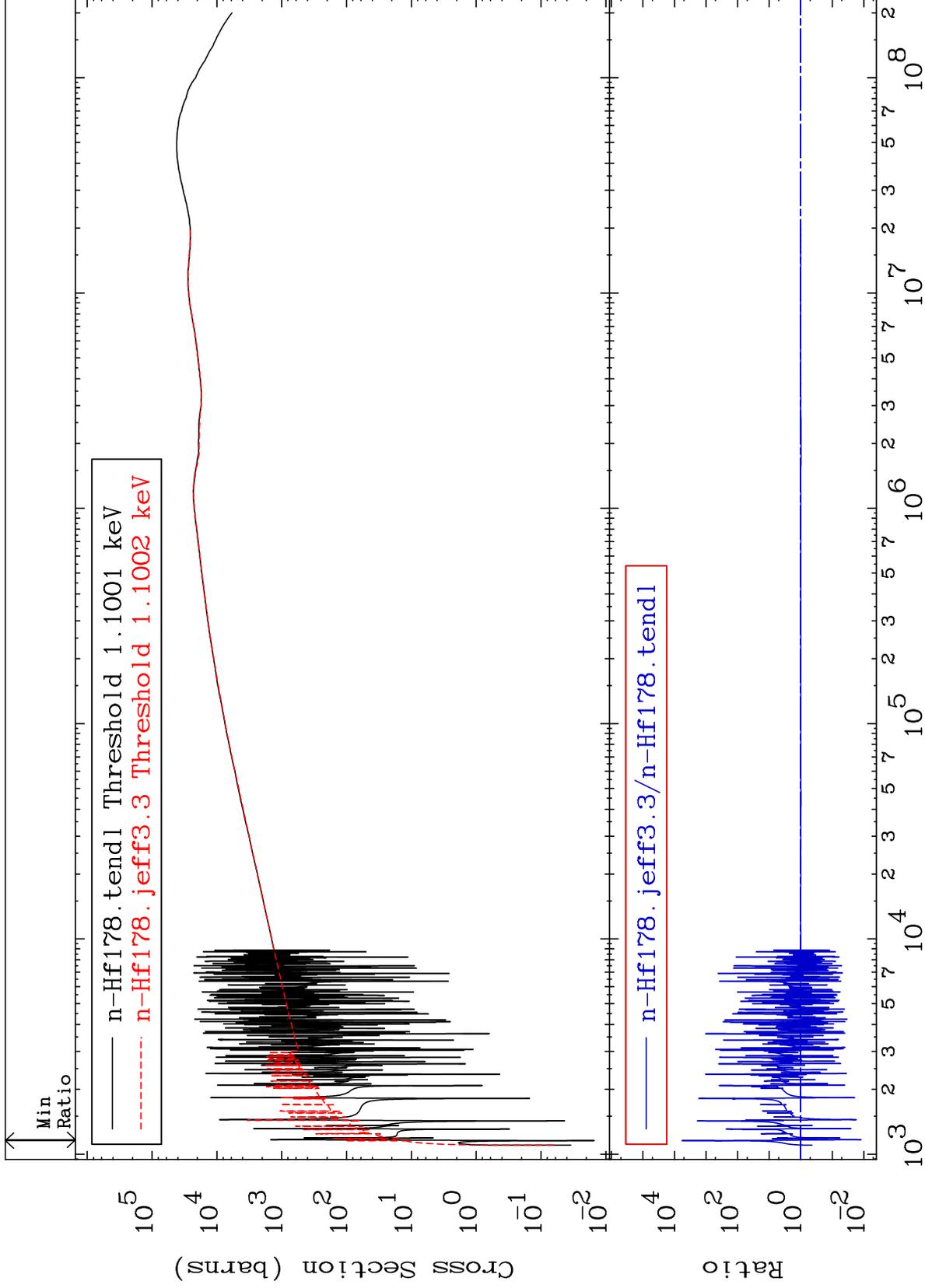
Incident Energy (eV)

72-Hf-178

MAT 7237

Dpa elastic (mt2)
Cross Section

72-Hf-178
-98.78 To 9999. %



63

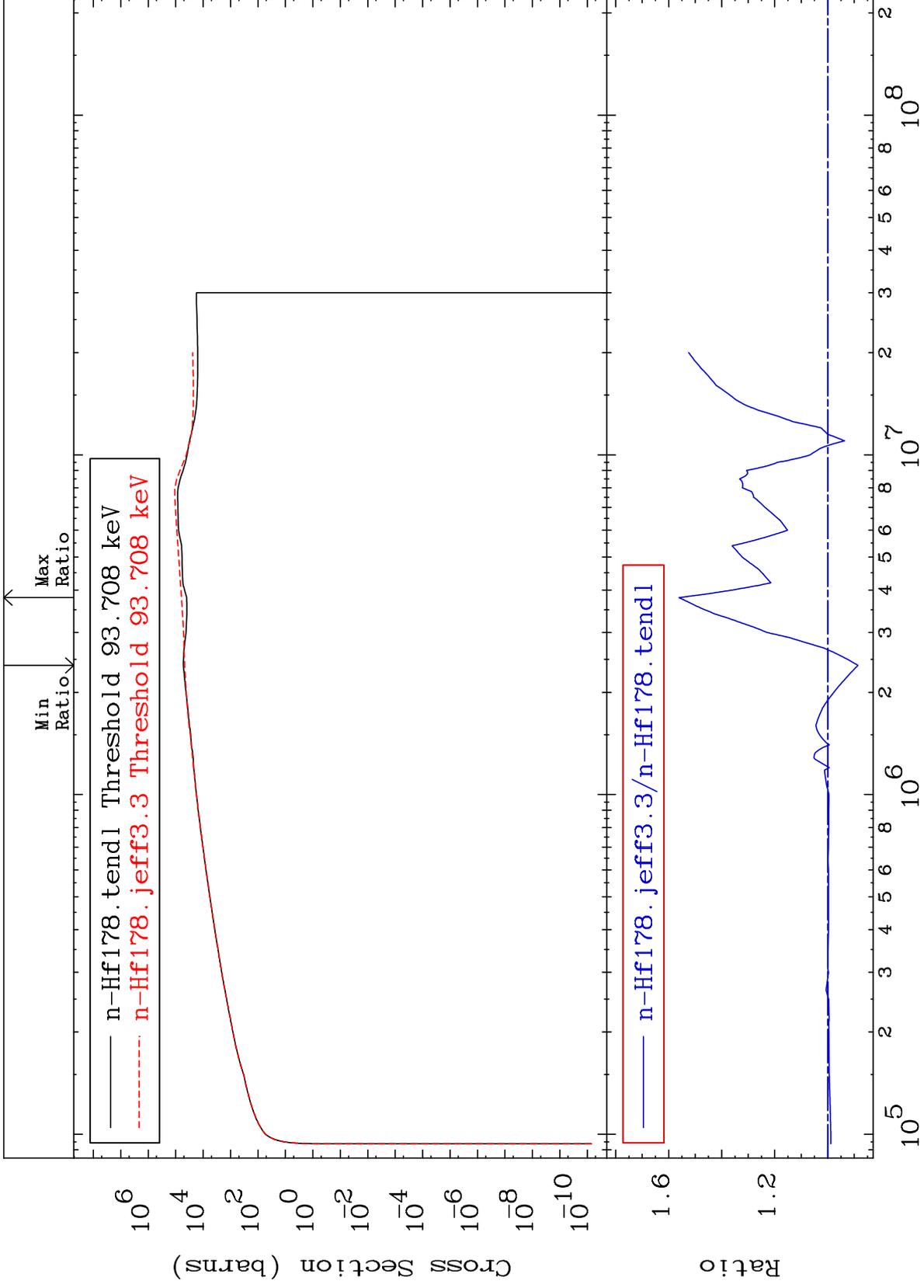
Incident Energy (eV)

72-Hf-178

MAT 7237

Dpa inelastic (mt51-91)
Cross Section

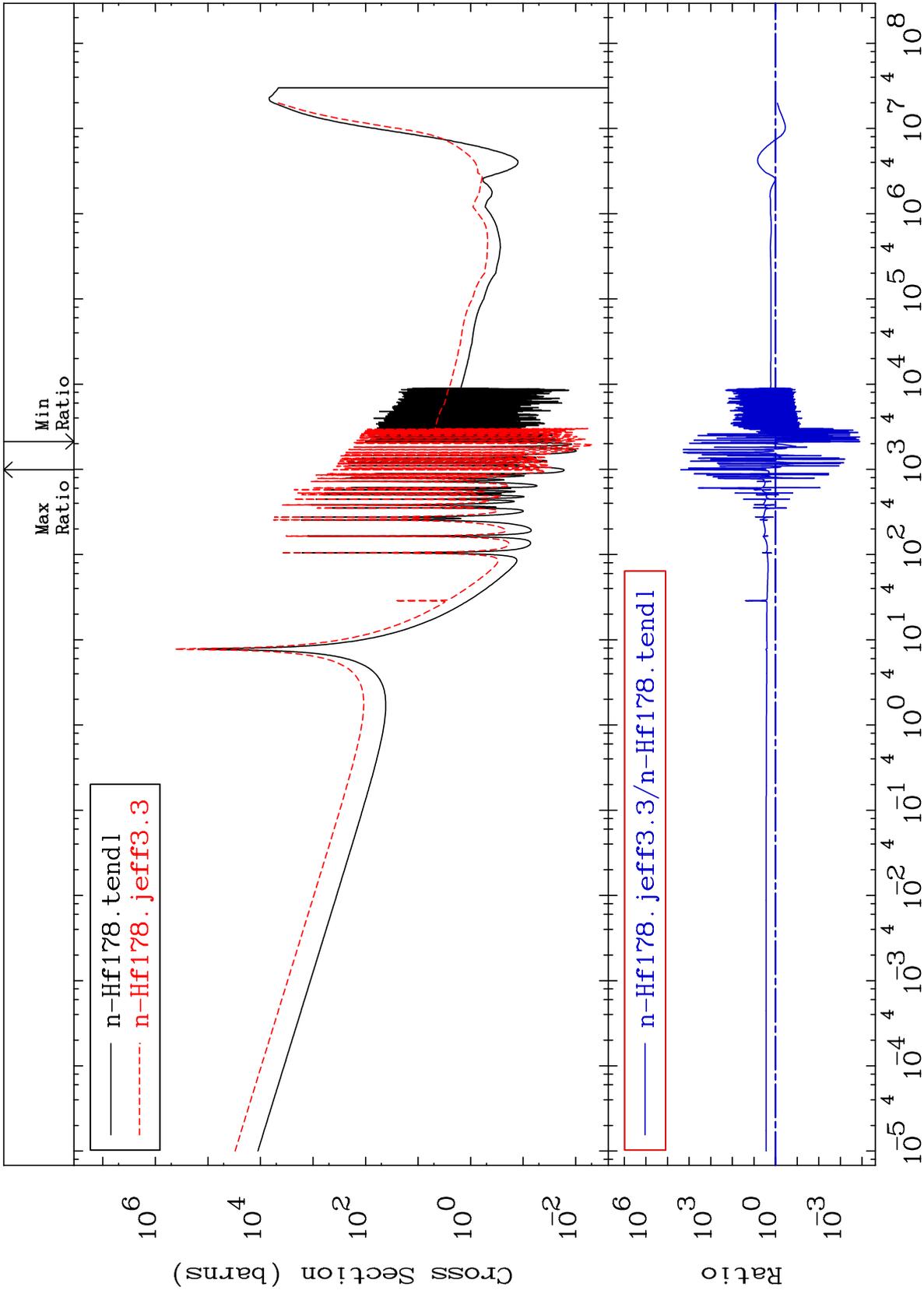
72-Hf-178
-11.40 To 56.10 %



64

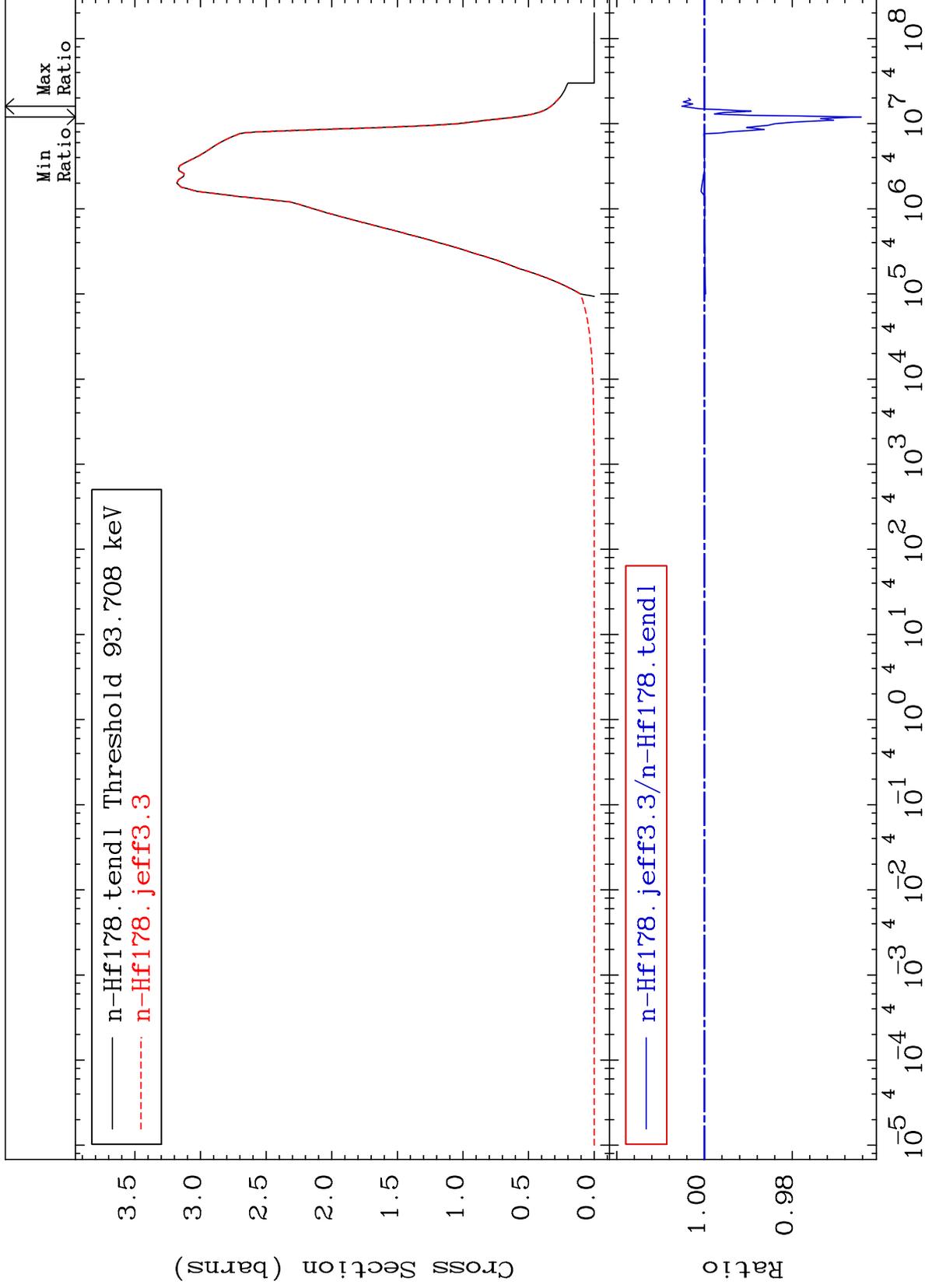
Incident Energy (eV)

72-Hf-178

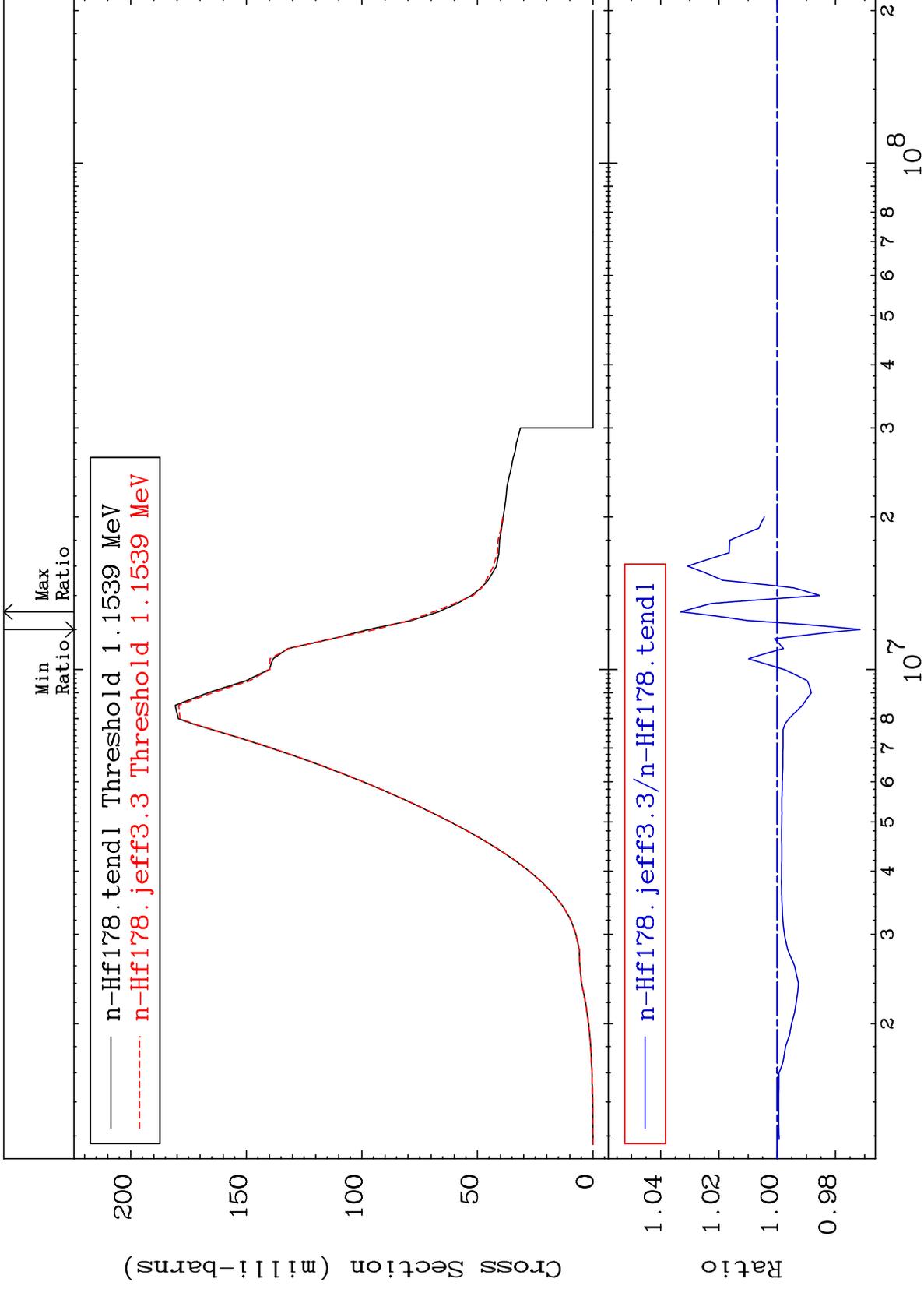


Radionuclide Production Cross Section

-3.569 To 0.514 %



Radionuclide Production Cross Section -2.843 To 3.310 %

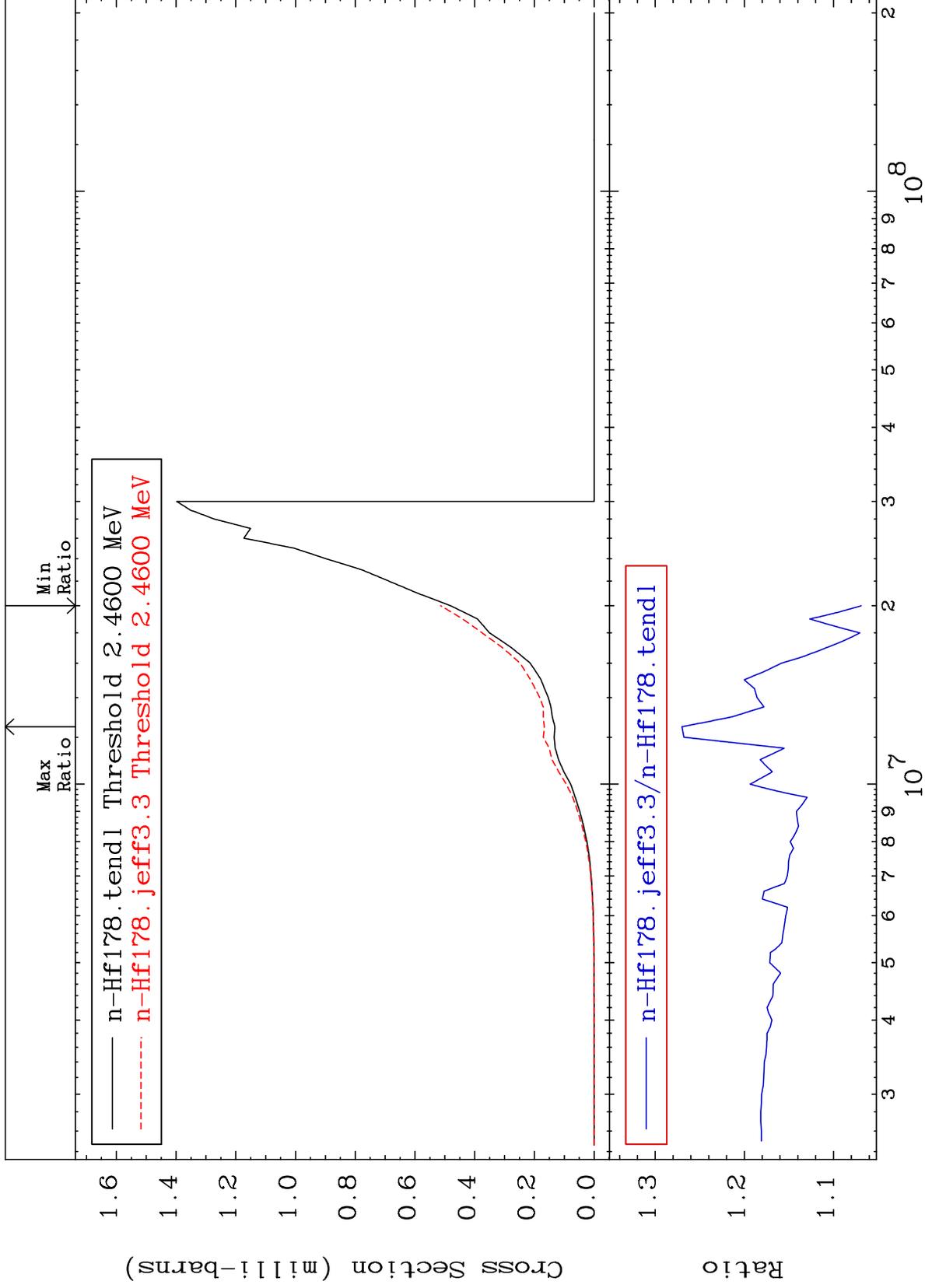


MAT 7237

Inelastic: 72-Hf-178m30

72-Hf-178

Radionuclide Production Cross Section 6.905 To 27.01 %

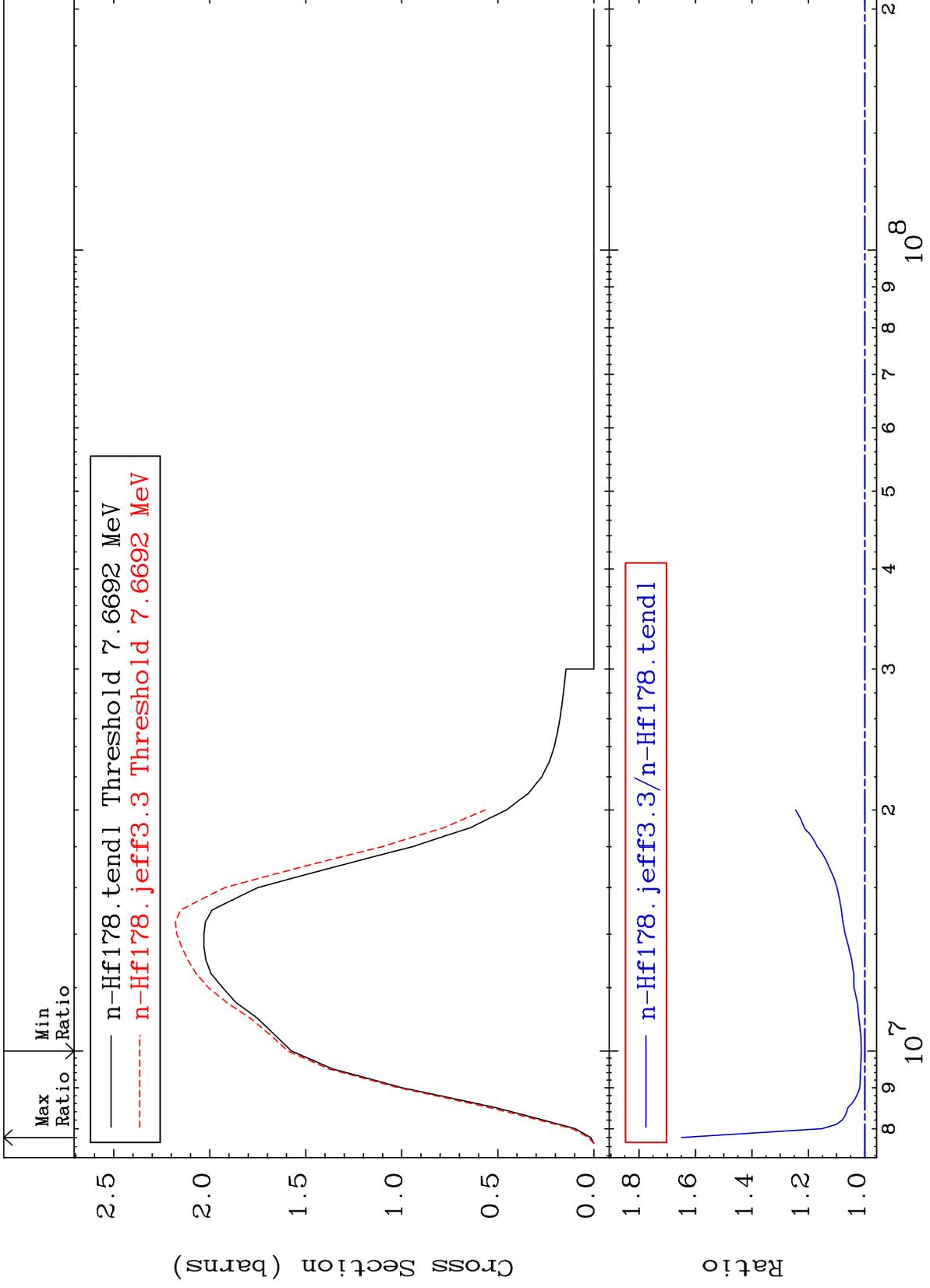


MAT 7237

(n,2n):72-Hf-177g

72-Hf-178

Radionuclide Production Cross Section 1.214 To 64.86 %

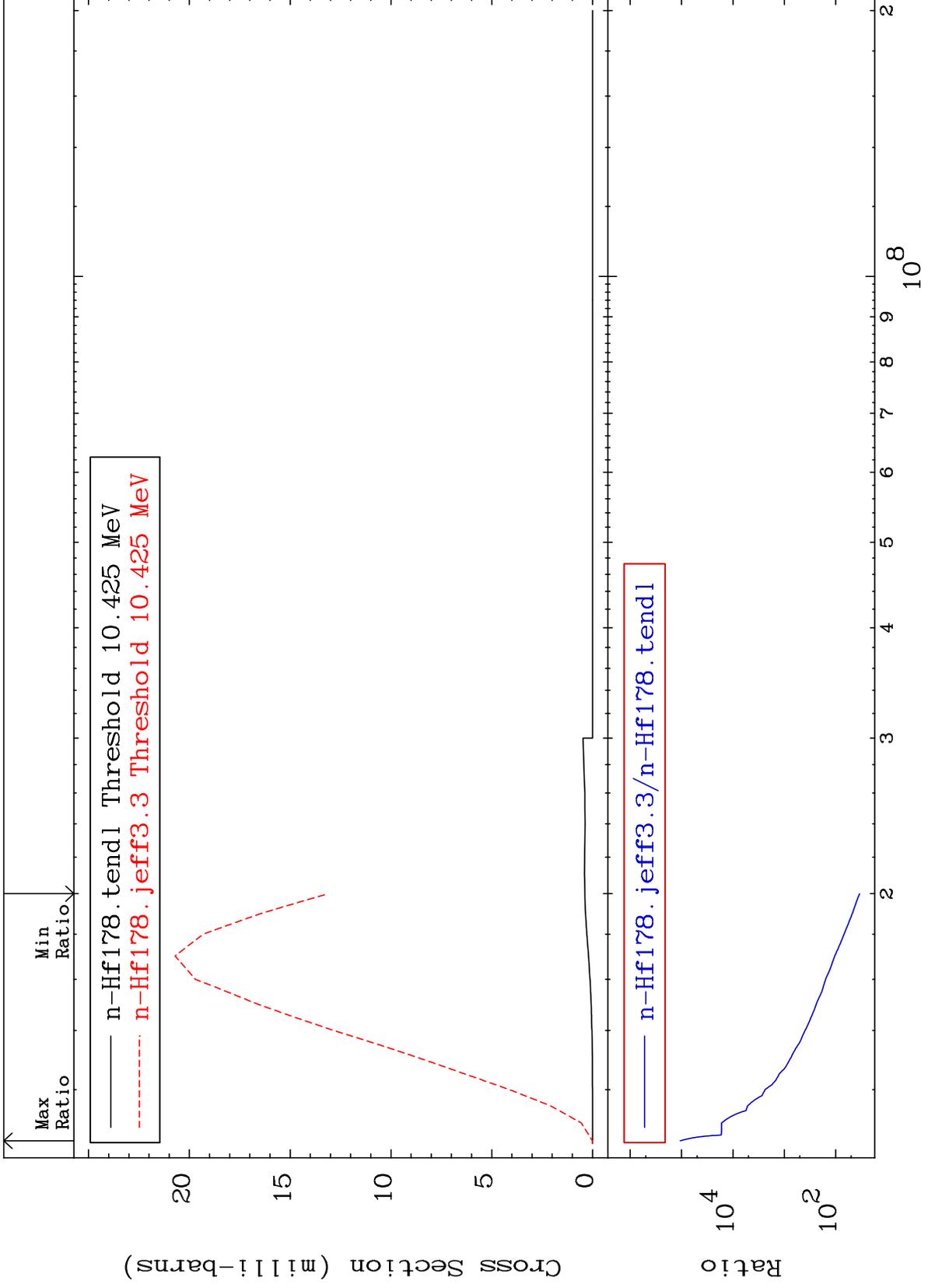


MAT 7237

(n,2n):72-Hf-177m10

72-Hf-178

Radionuclide Production Cross Section 3326. To 9999. %



70

Incident Energy (eV)

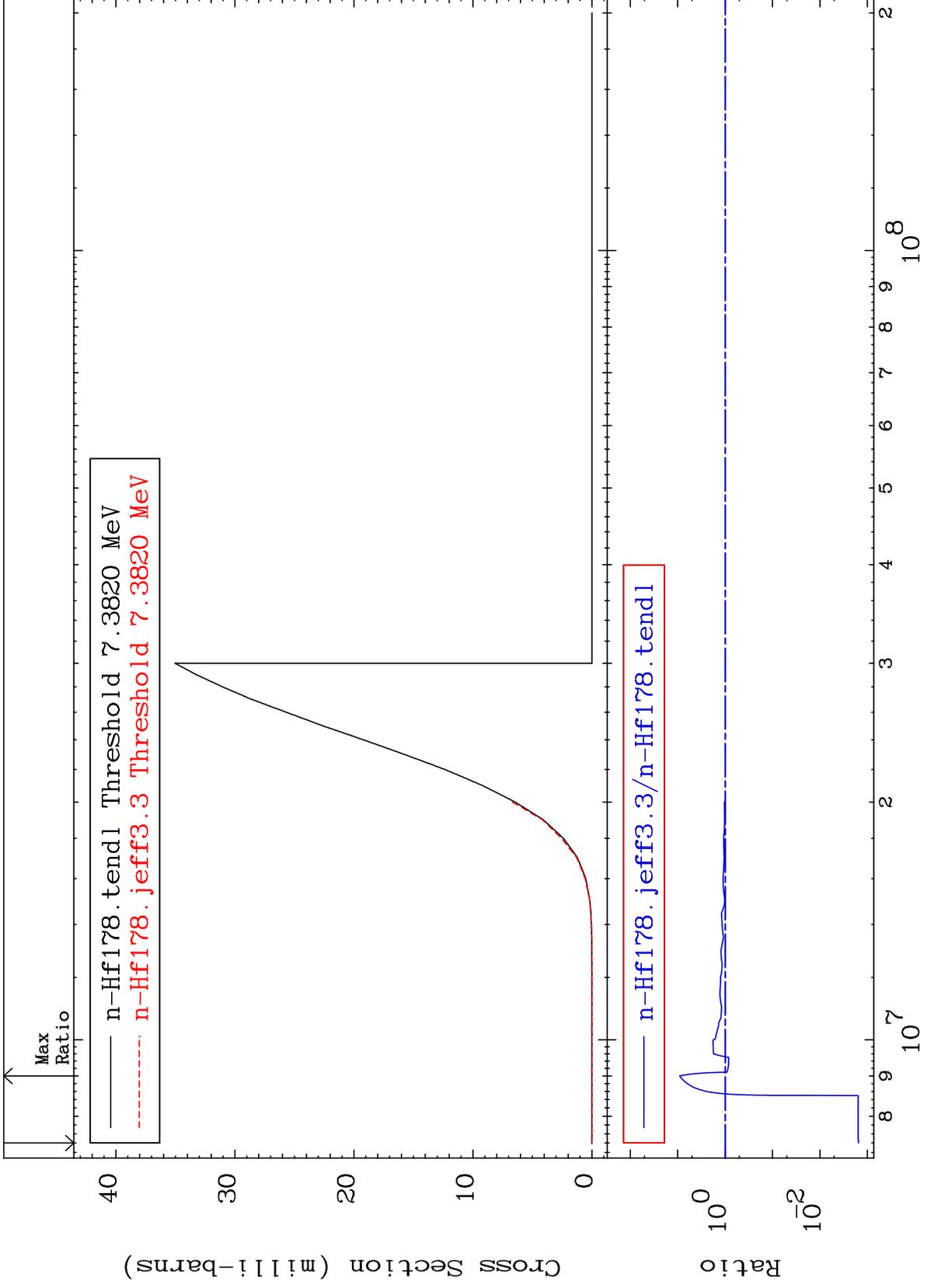
72-Hf-178

MAT 7237

(n, n') p: 71-Lu-177g

72-Hf-178

Radionuclide Production Cross Section -99.85 To 813.4 %



71

Incident Energy (eV)

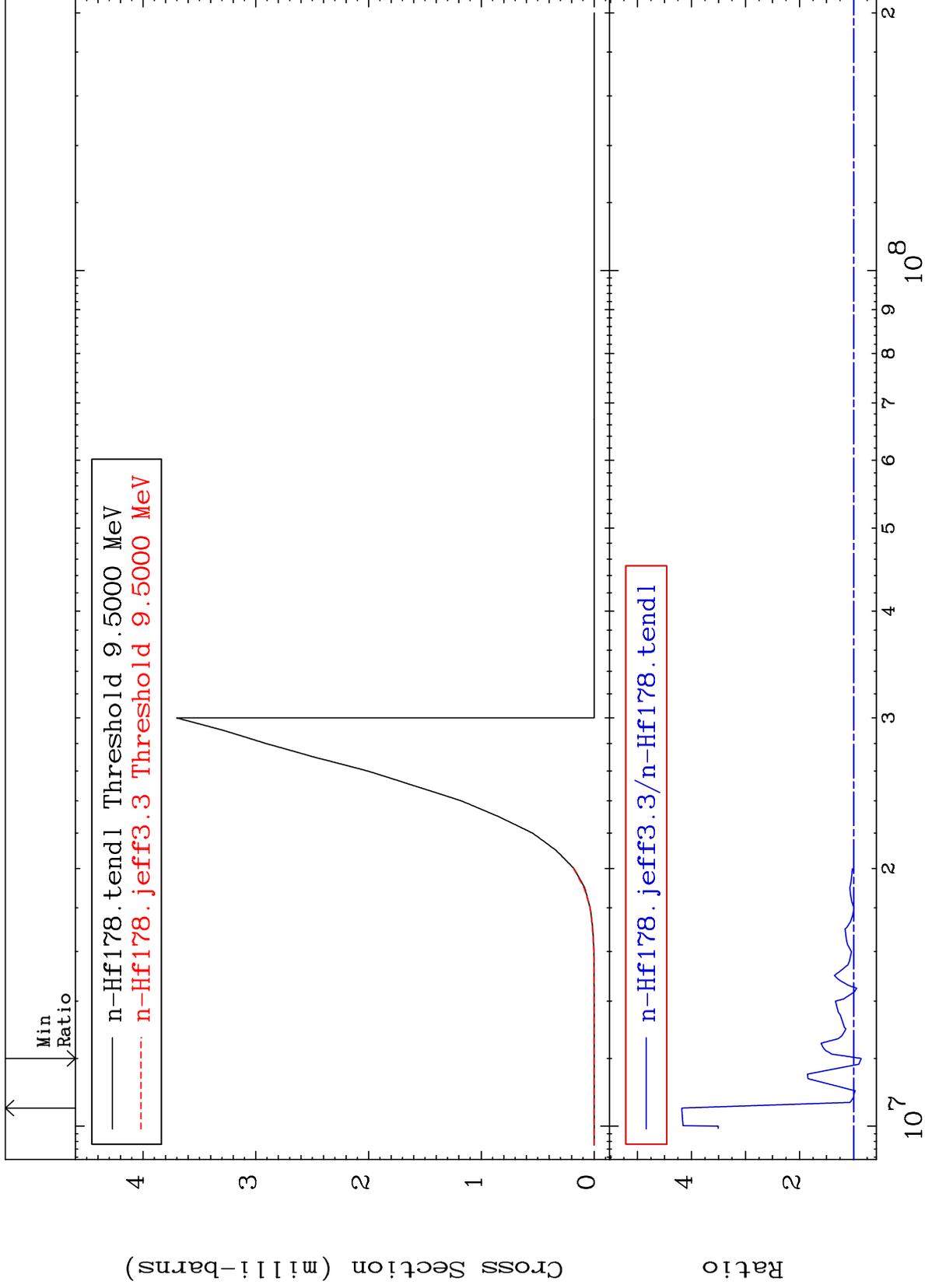
72-Hf-178

MAT 7237

(n, n') p:71-Lu-177m29

72-Hf-178

Radionuclide Production Cross Section -13.97 To 317.7 %



72

Incident Energy (eV)

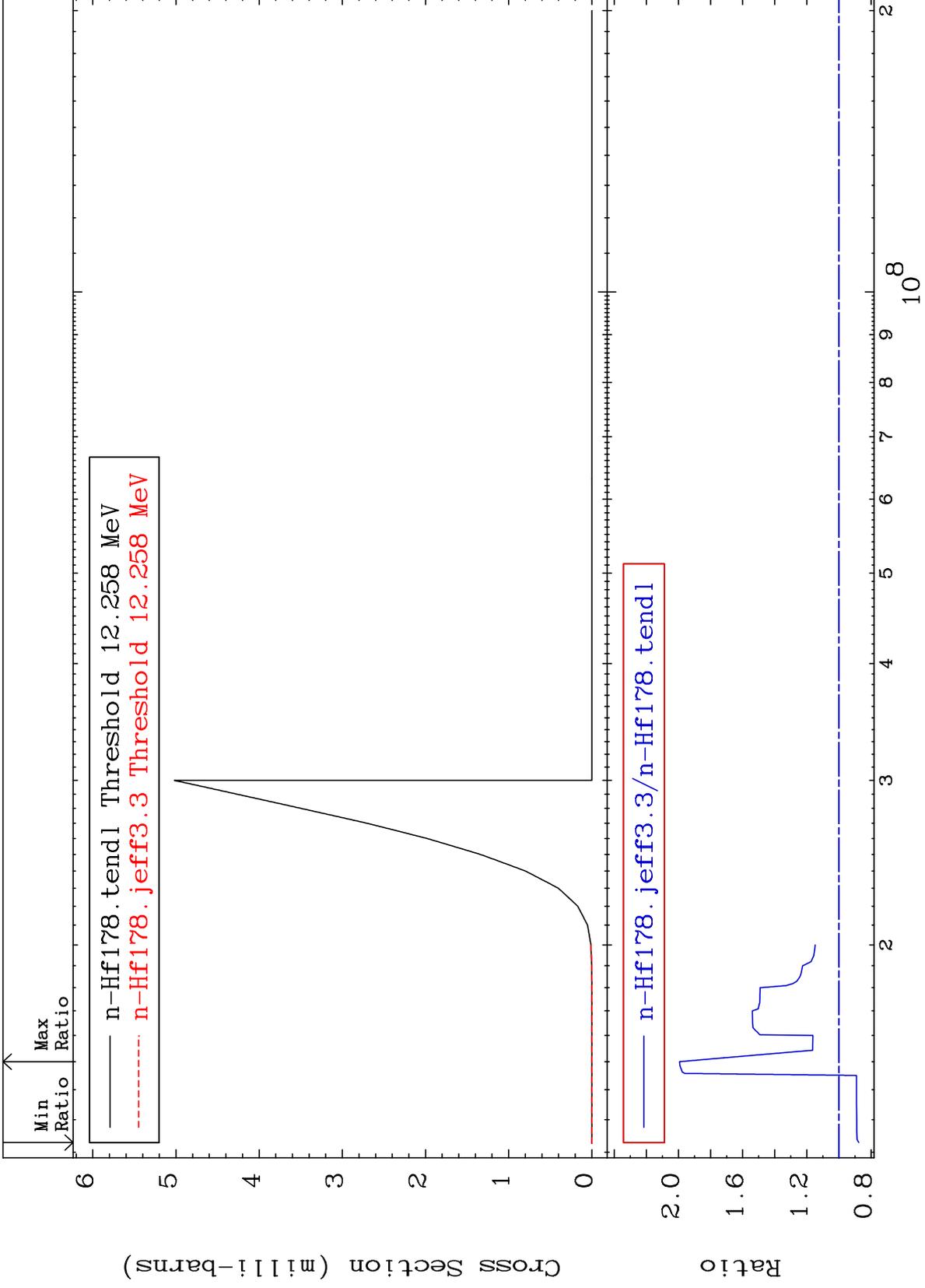
72-Hf-178

MAT 7237

(n, n') d:71-Lu-176g

72-Hf-178

Radionuclide Production Cross Section -12.37 To 99.30 %



73

Incident Energy (eV)

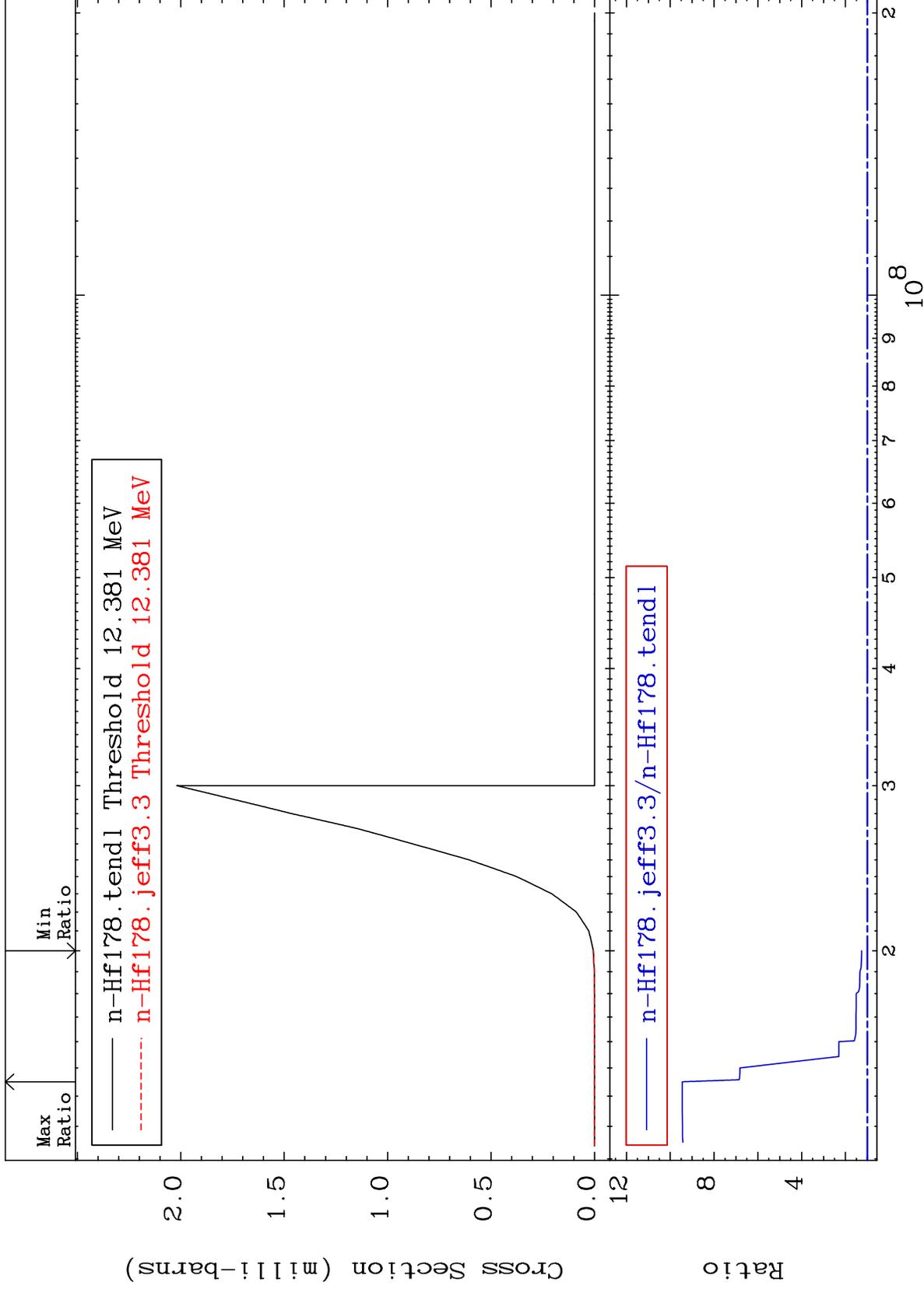
72-Hf-178

MAT 7237

(n, n') d:71-Lu-176m1

72-Hf-178

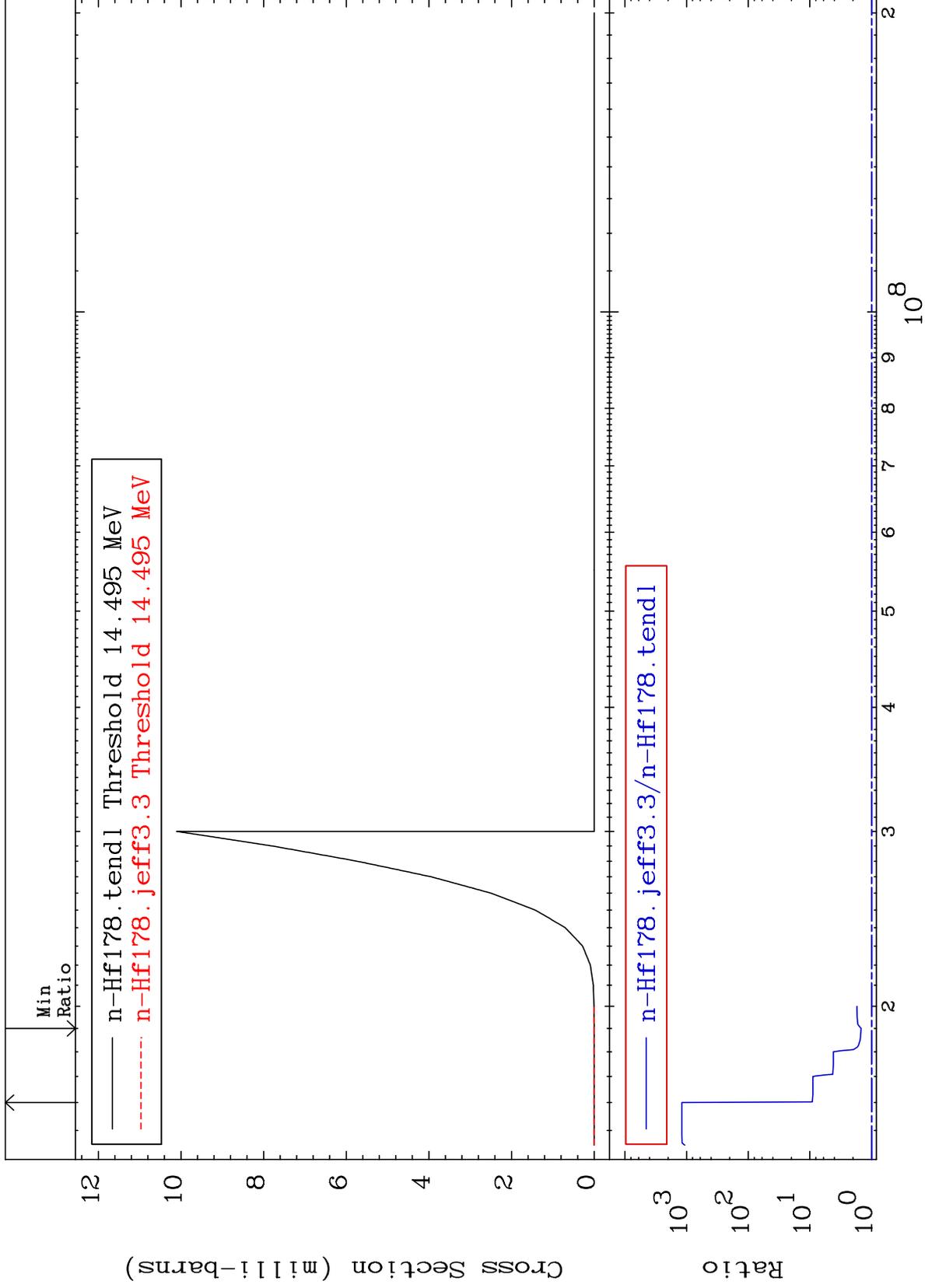
Radionuclide Production Cross Section 26.02 To 844.9 %



74

Incident Energy (eV)

72-Hf-178

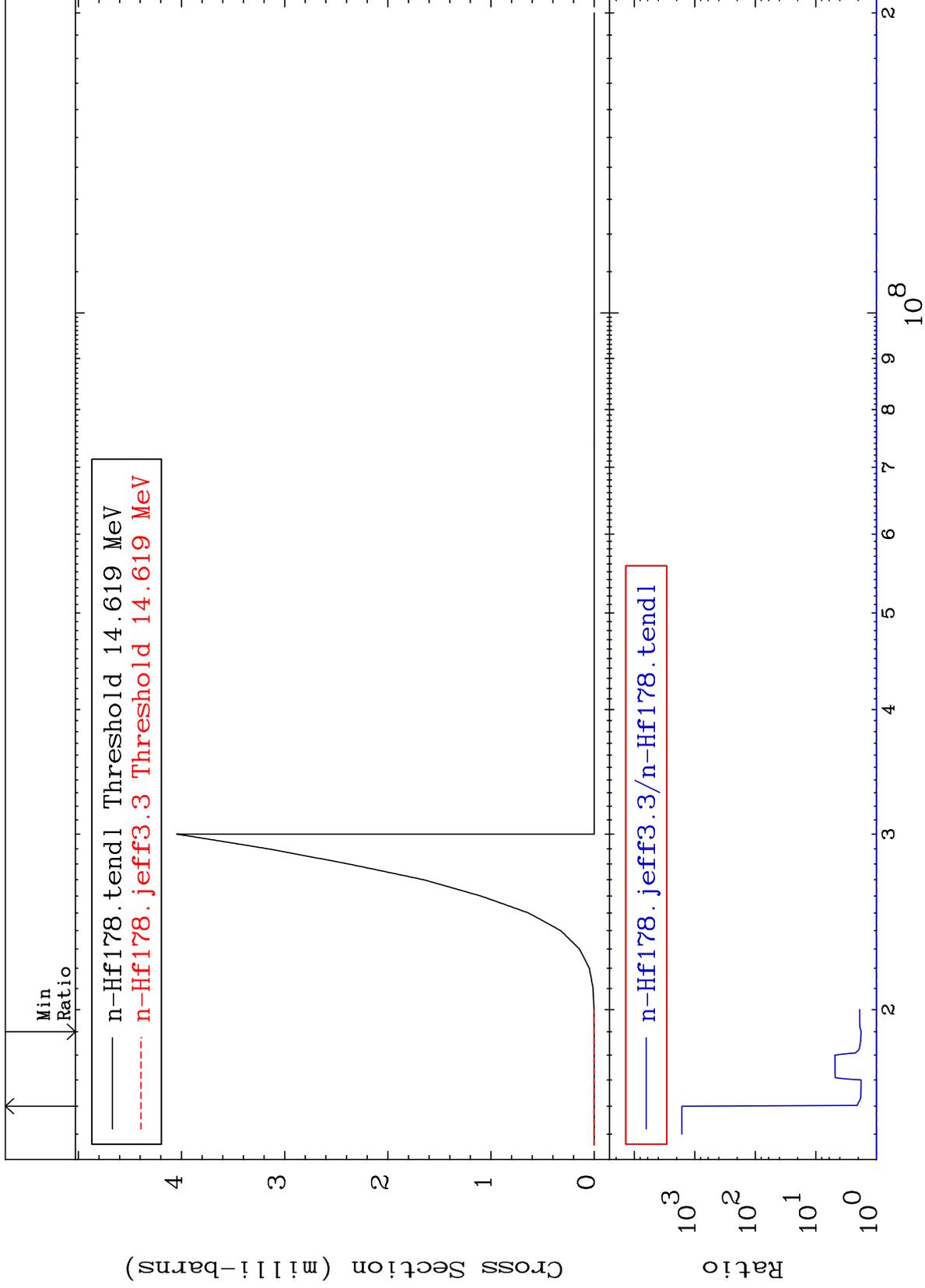


MAT 7237

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

72-Hf-178

Radionuclide Production Cross Section 78.59 To 9999. %

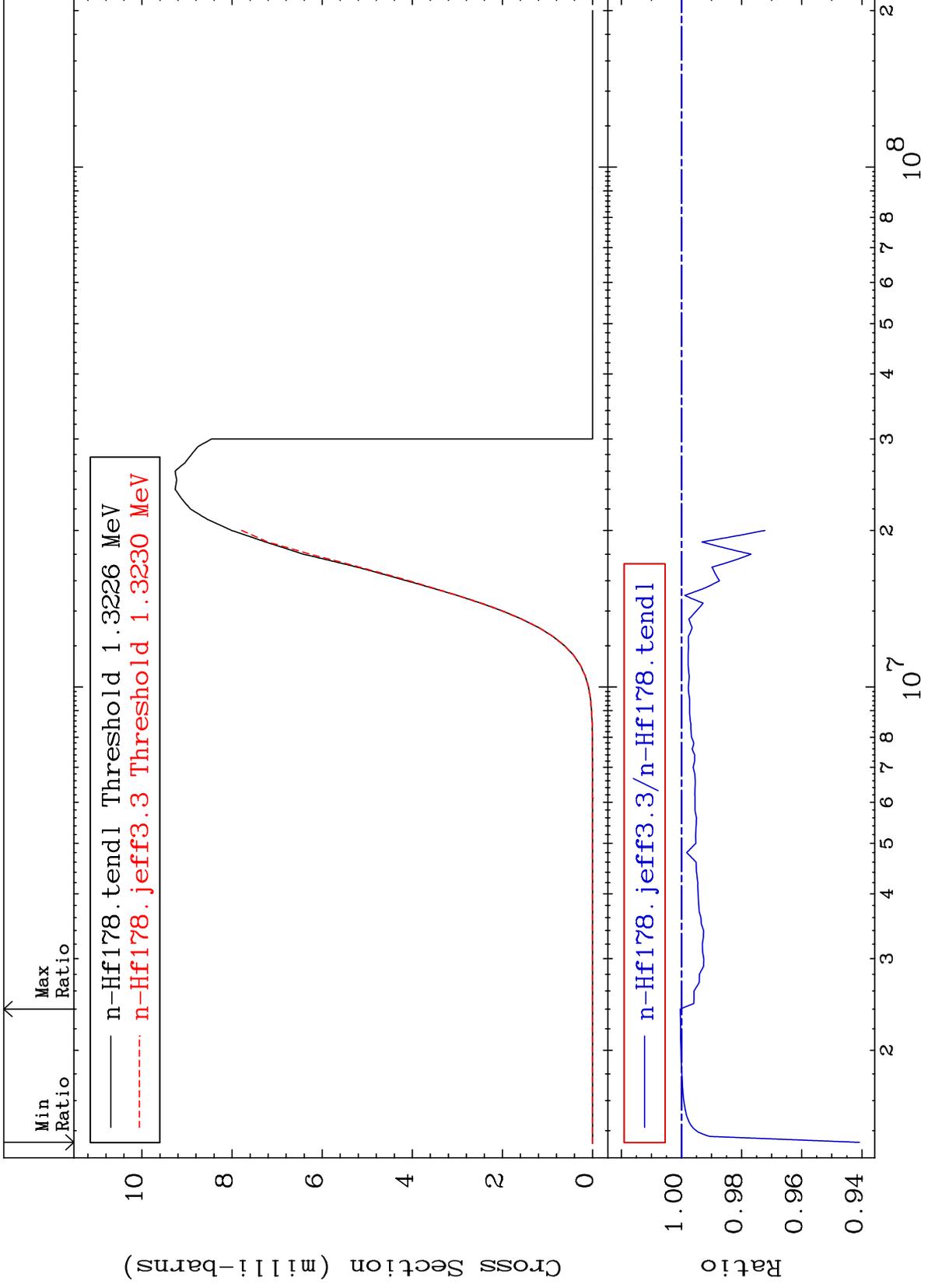


76

Incident Energy (eV)

72-Hf-178

Radionuclide Production Cross Section -5.920 To 0.041 %

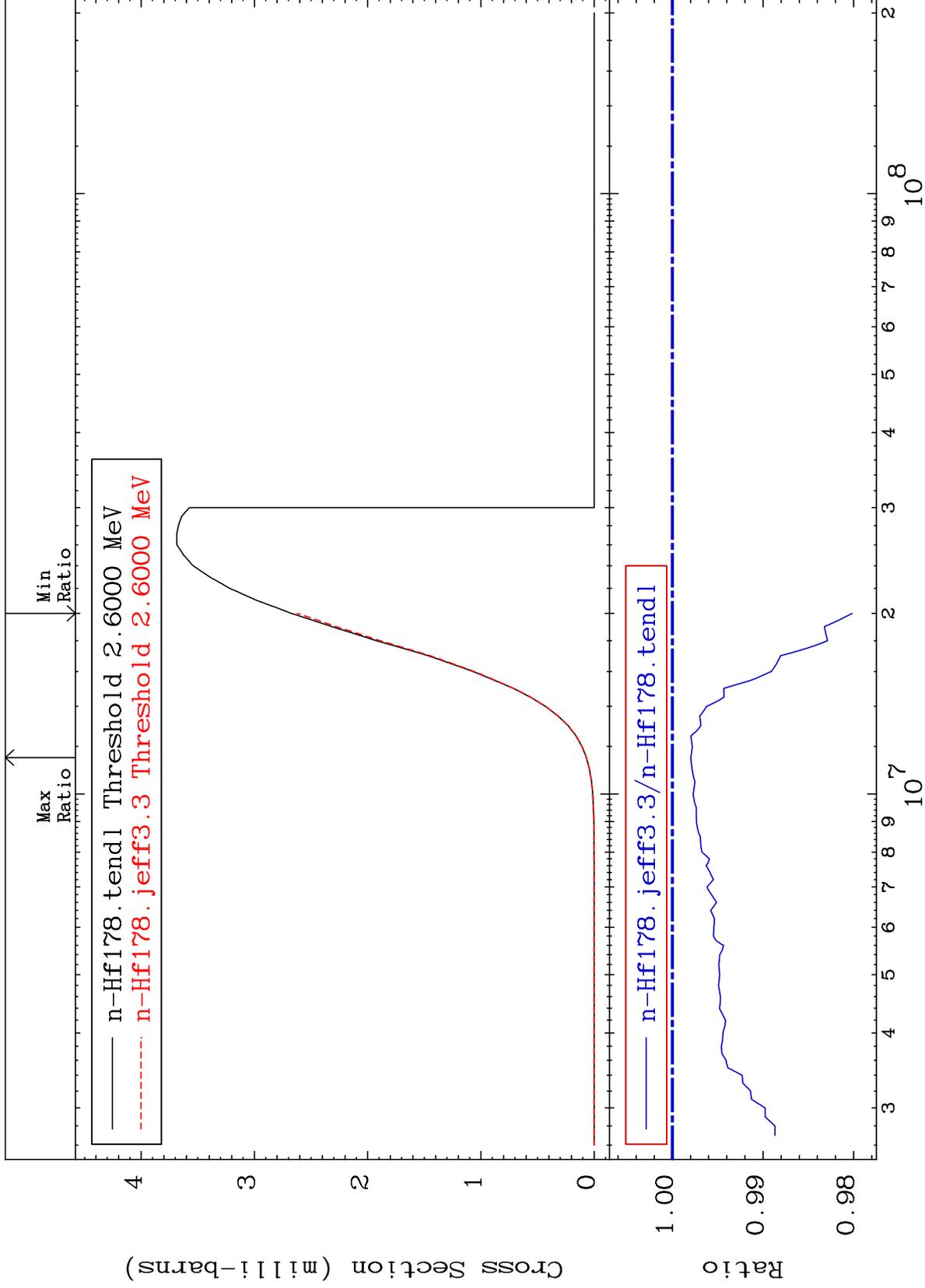


MAT 7237

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

72-Hf-178

Radionuclide Production Cross Section -1.985 To -0.202%



78

Incident Energy (eV)

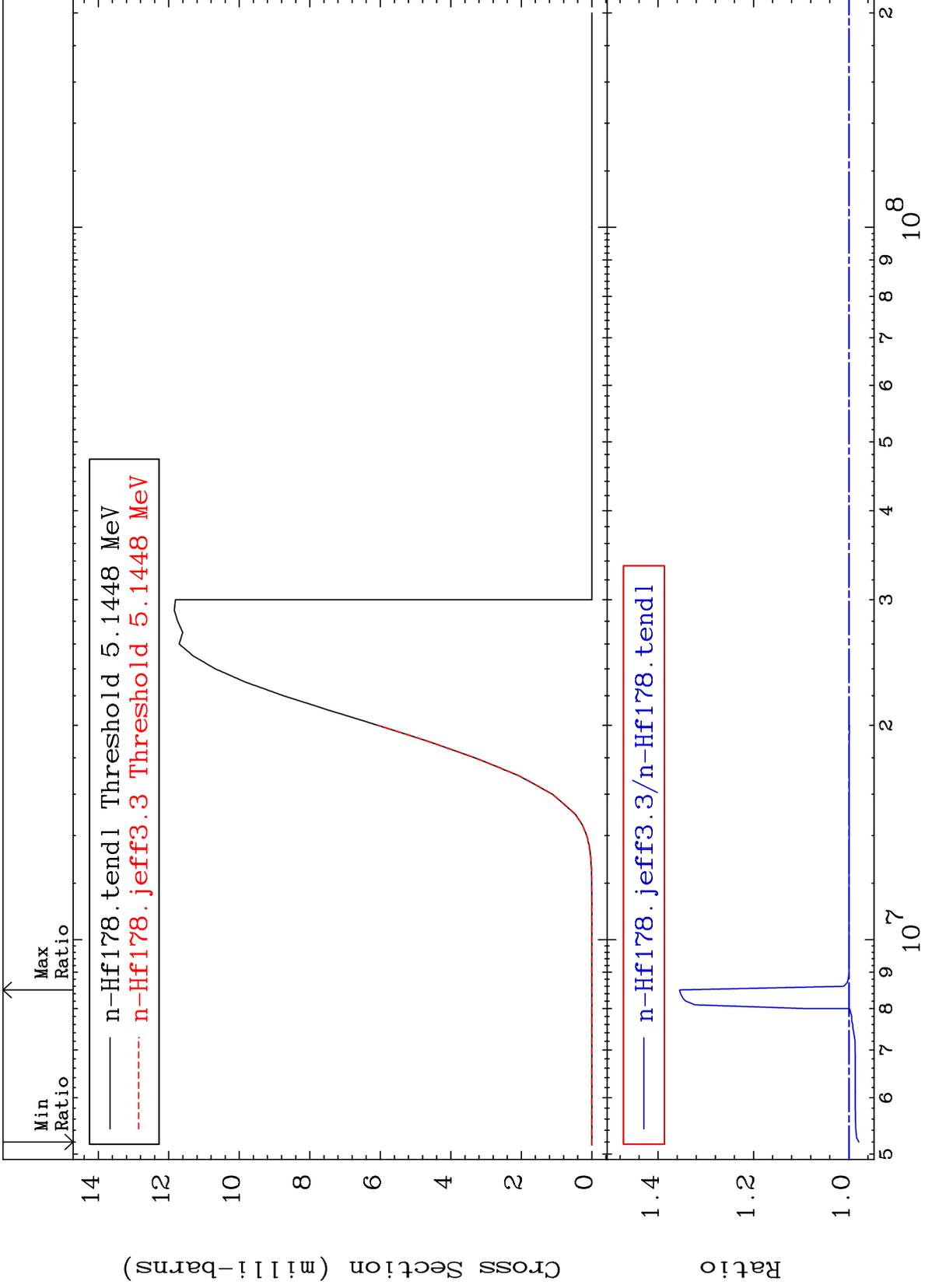
72-Hf-178

MAT 7237

(n, d) : 71-Lu-177g

72-Hf-178

Radionuclide Production Cross Section -2.071 To 35.50 %



79

Incident Energy (eV)

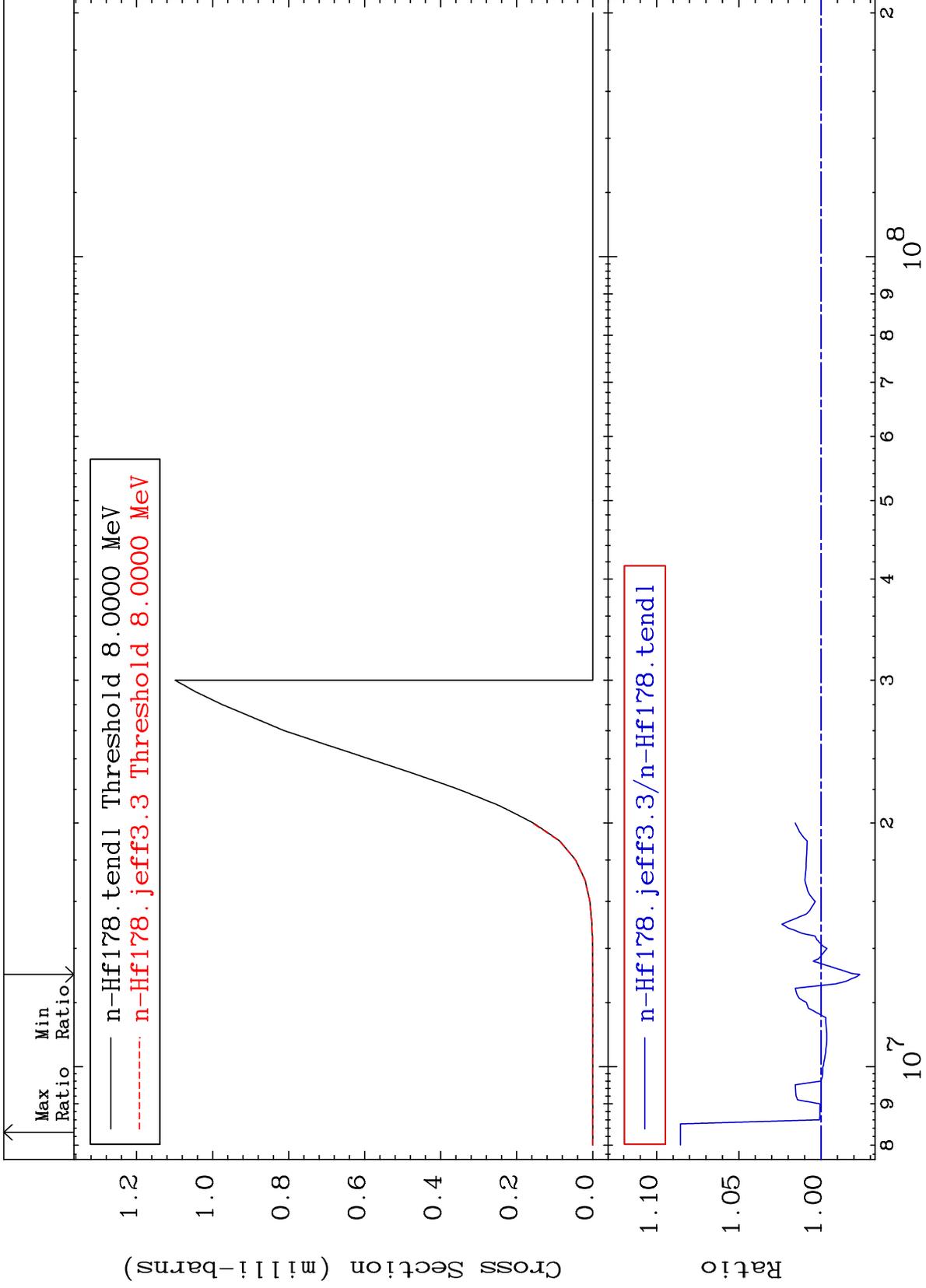
72-Hf-178

MAT 7237

(n, d) : 71-Lu-177m29

72-Hf-178

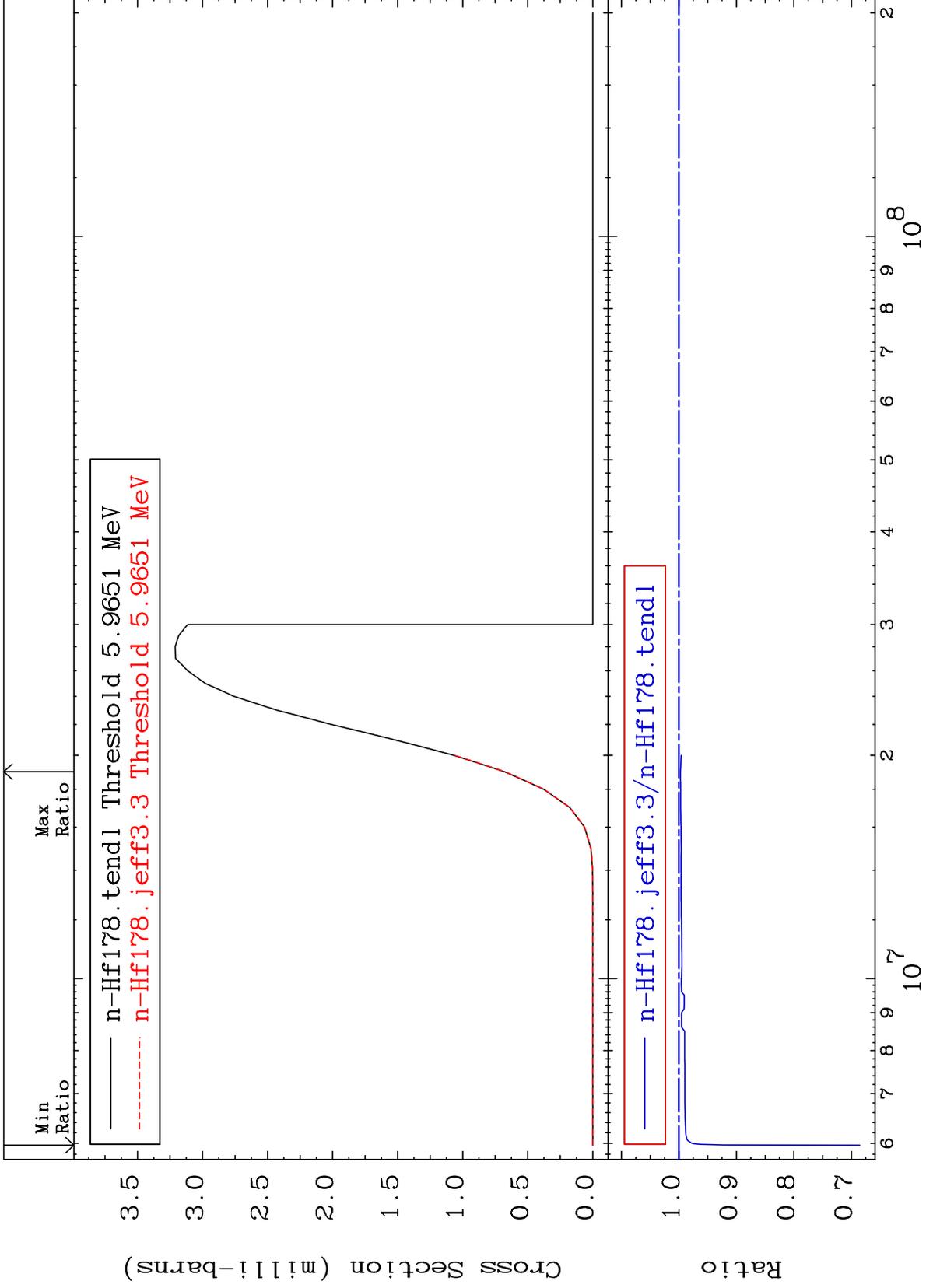
Radionuclide Production Cross Section -2.357 To 8.547 %



80

Incident Energy (eV)

72-Hf-178

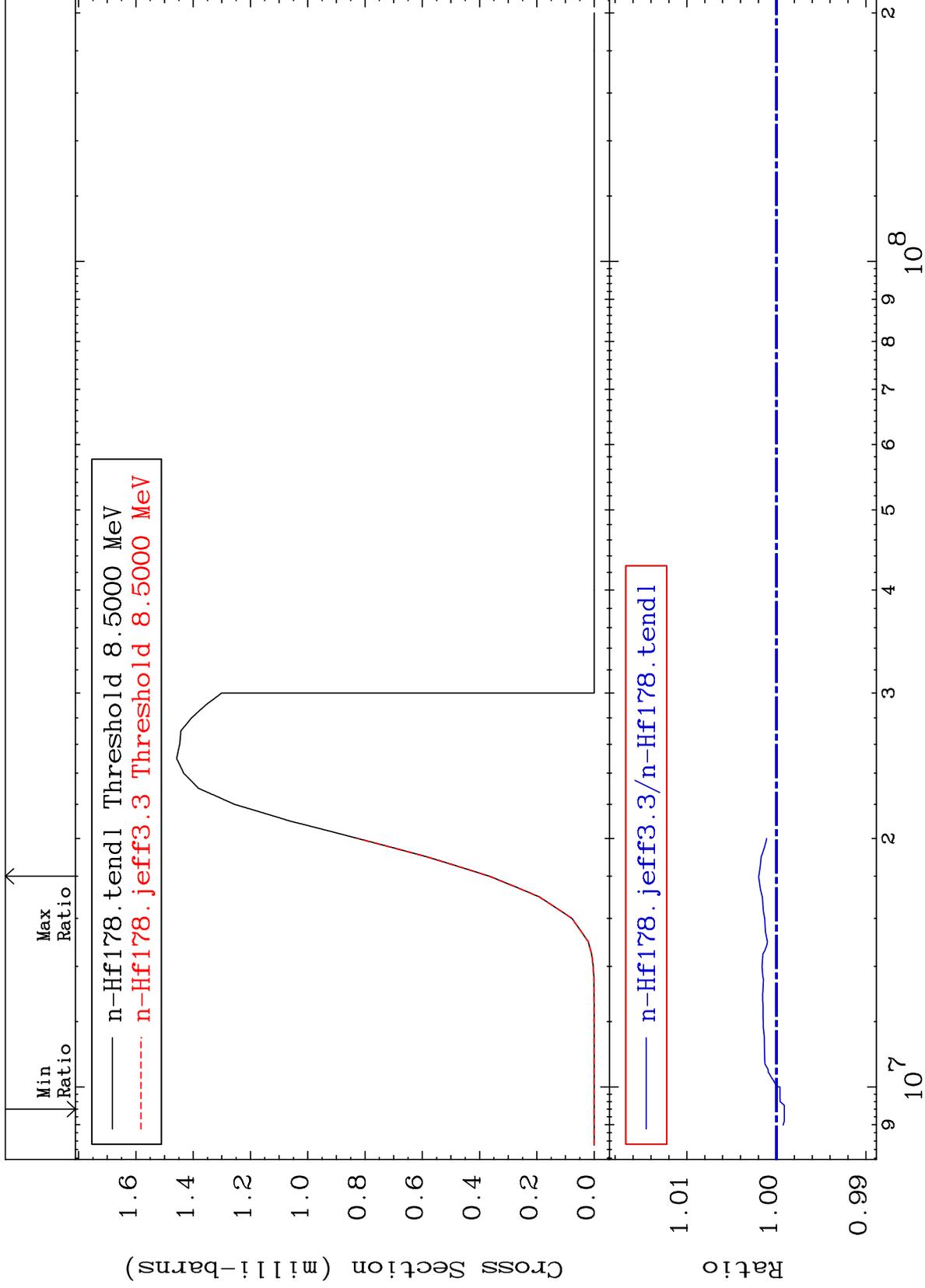


MAT 7237

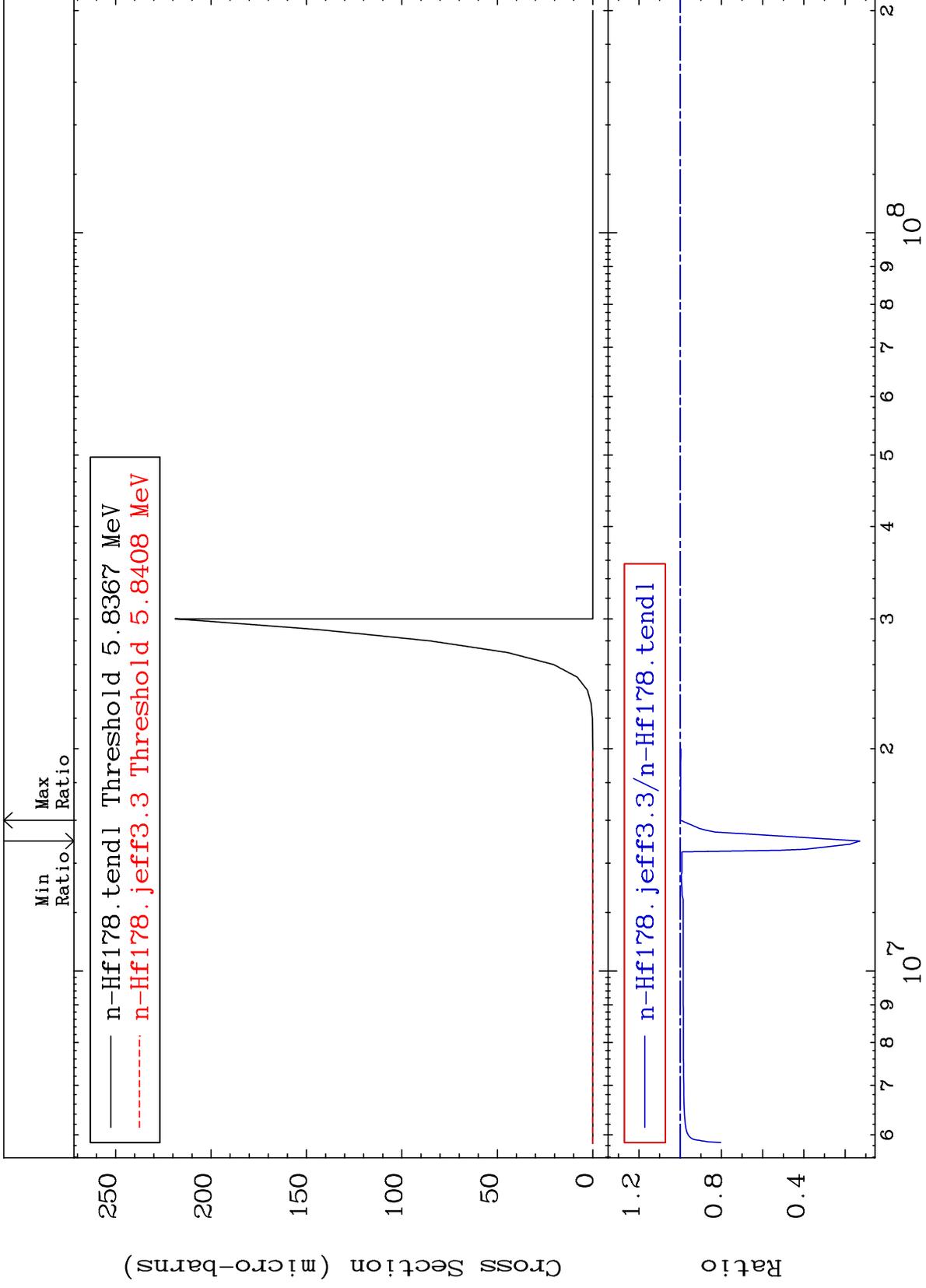
(n, t) : 71-Lu-176m1

72-Hf-178

Radionuclide Production Cross Section -0.089 To 0.198 %



Radionuclide Production Cross Section -87.09 To -0.128%

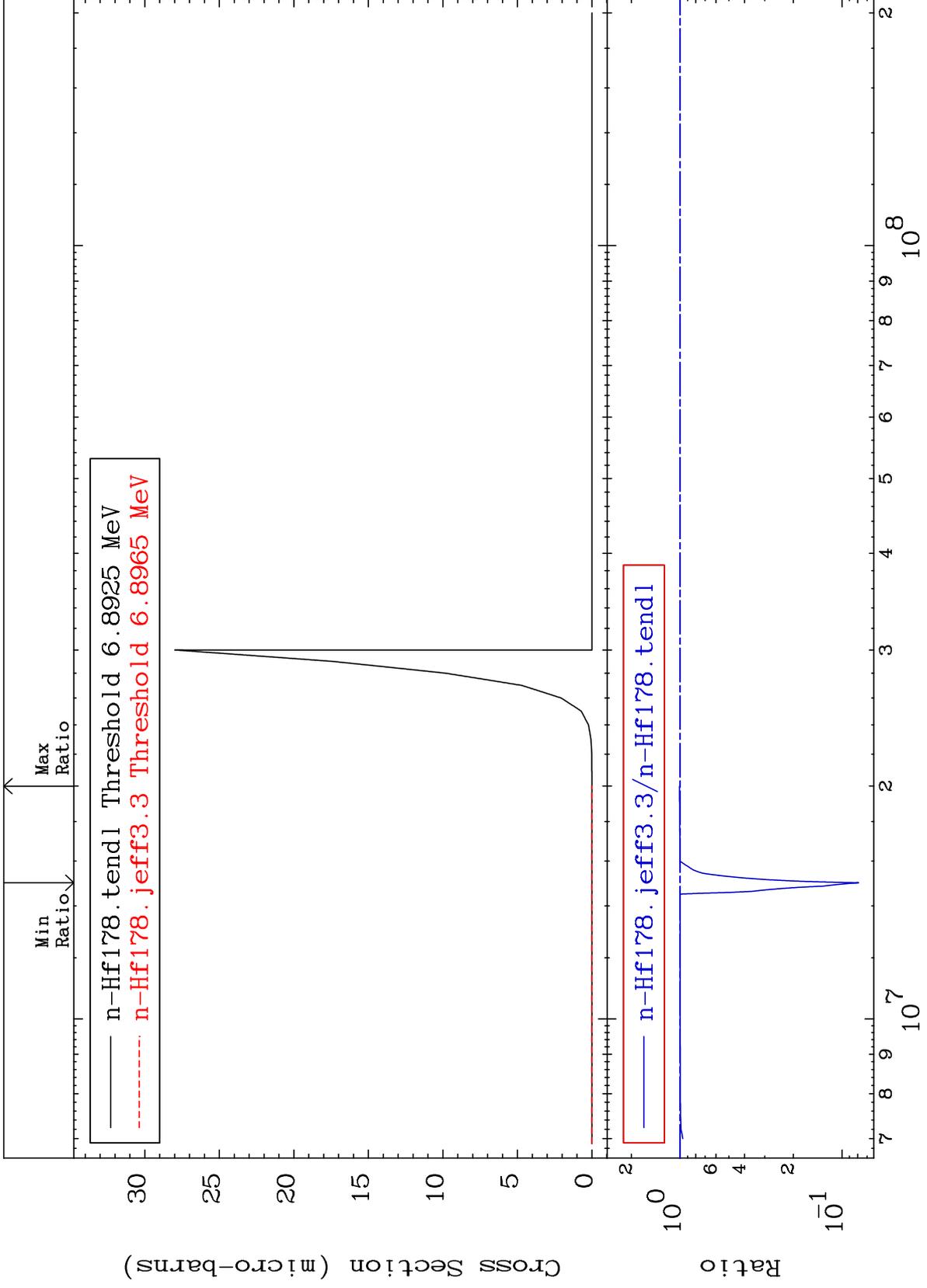


MAT 7237

(n,He-3):70-Yb-176m5

72-Hf-178

Radionuclide Production Cross Section -92.10 To 0.857 %



84

Incident Energy (eV)

72-Hf-178