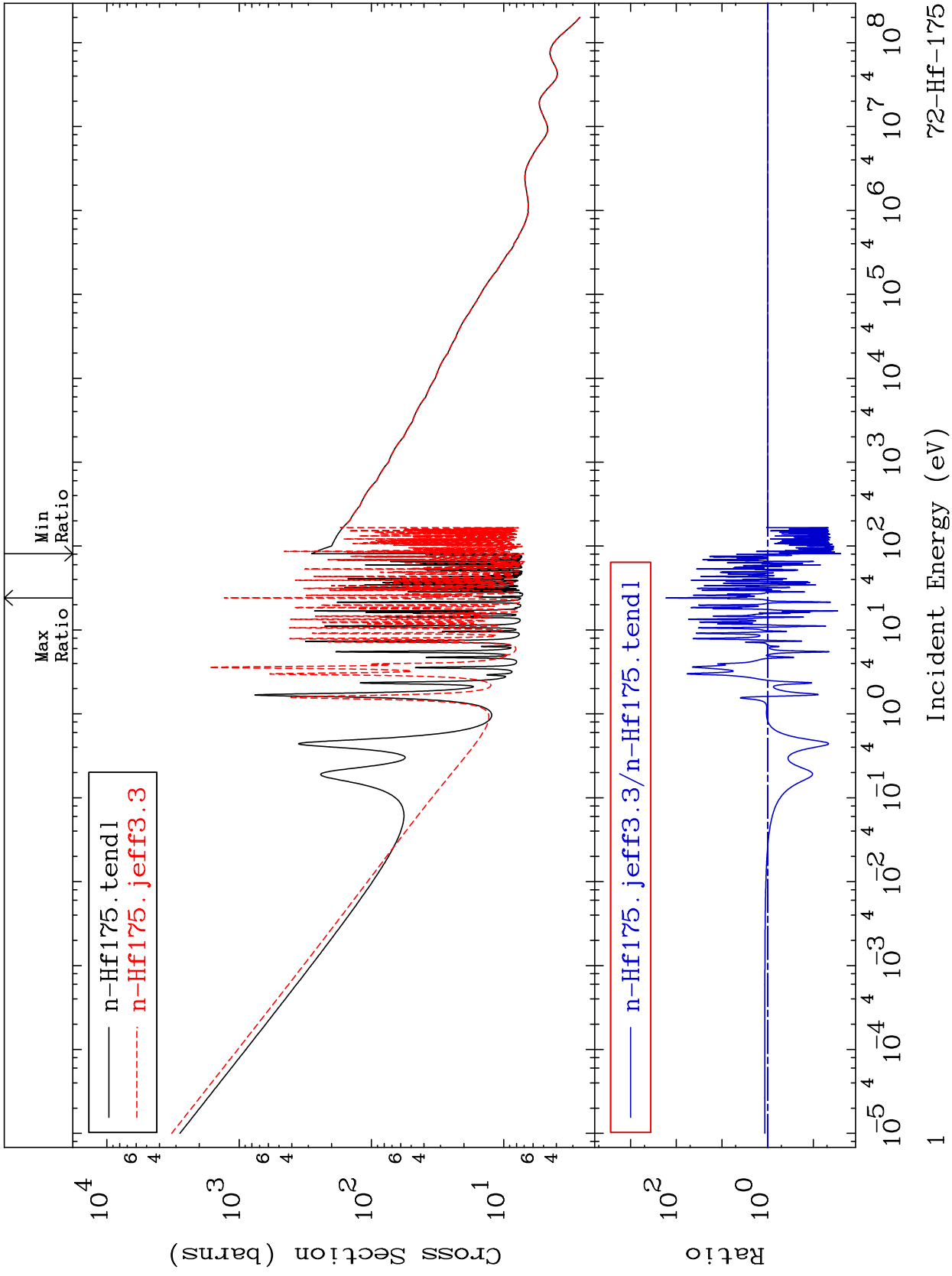


MAT 7228

Total
Cross Section

72-Hf-175
-97.49 To 9999. %

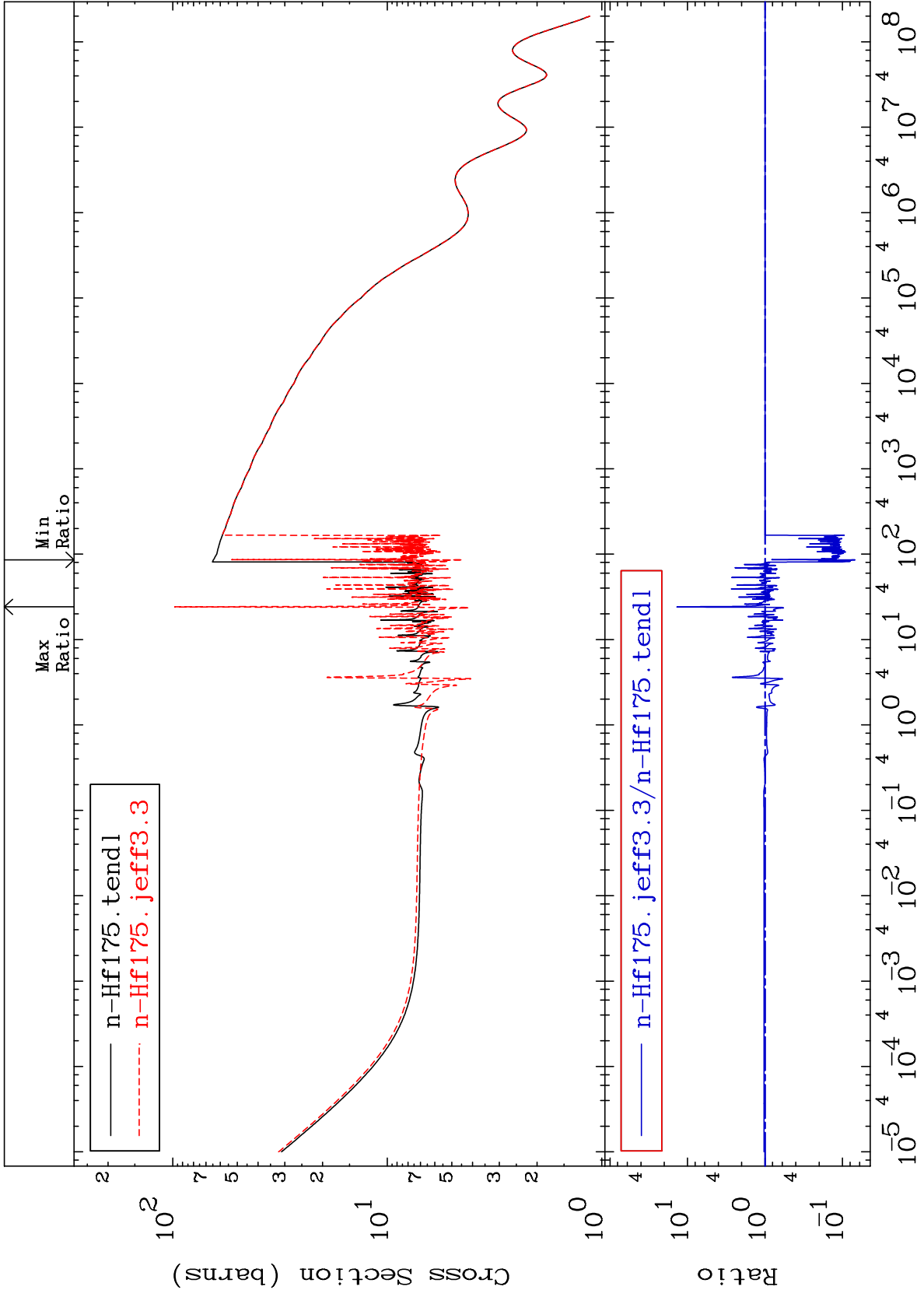


Incident Energy (eV)

72-Hf-175

MAT 7228

Elastic Cross Section
72-Hf-175
-93.12 To 1272. %



72-Hf-175

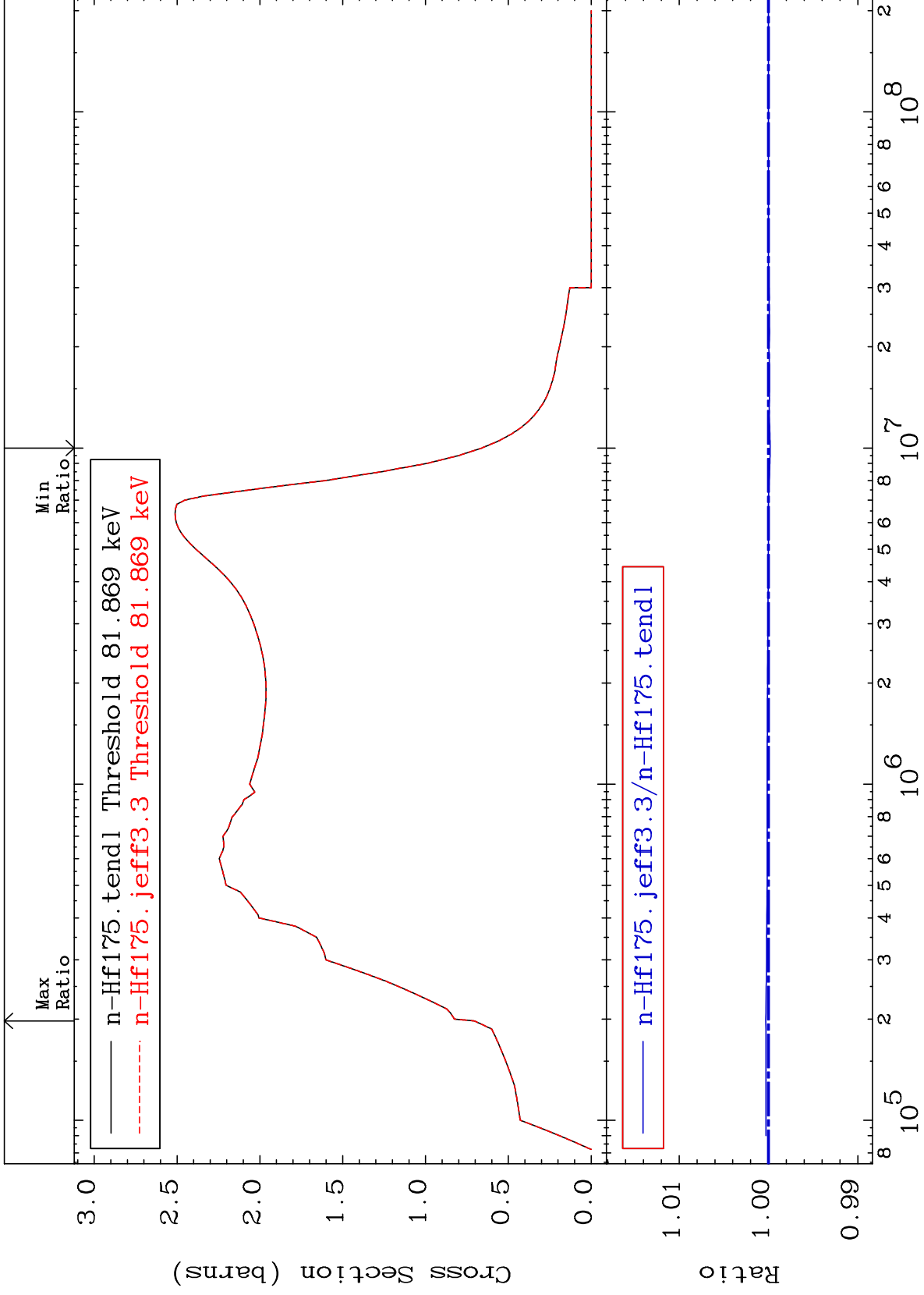
Incident Energy (eV)

2

MAT 7228

Inelastic
Cross Section

72-Hf-175
-0.018 To 0.030 %



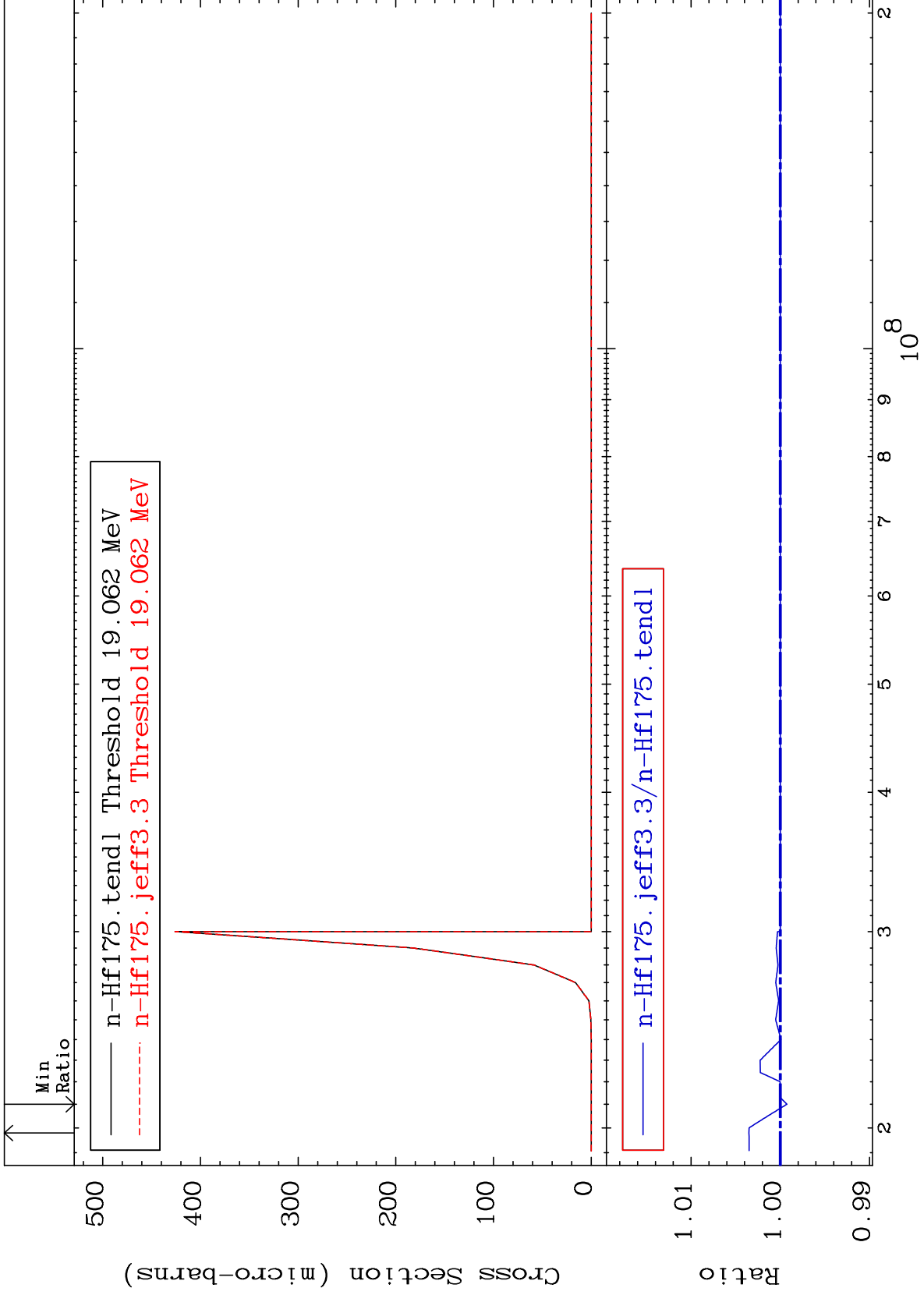
Incident Energy (eV)

72-Hf-175

MAT 7228

(n,2n) d
Cross Section

72-Hf-175
-0.074 To 0.351 %



MAT 7228

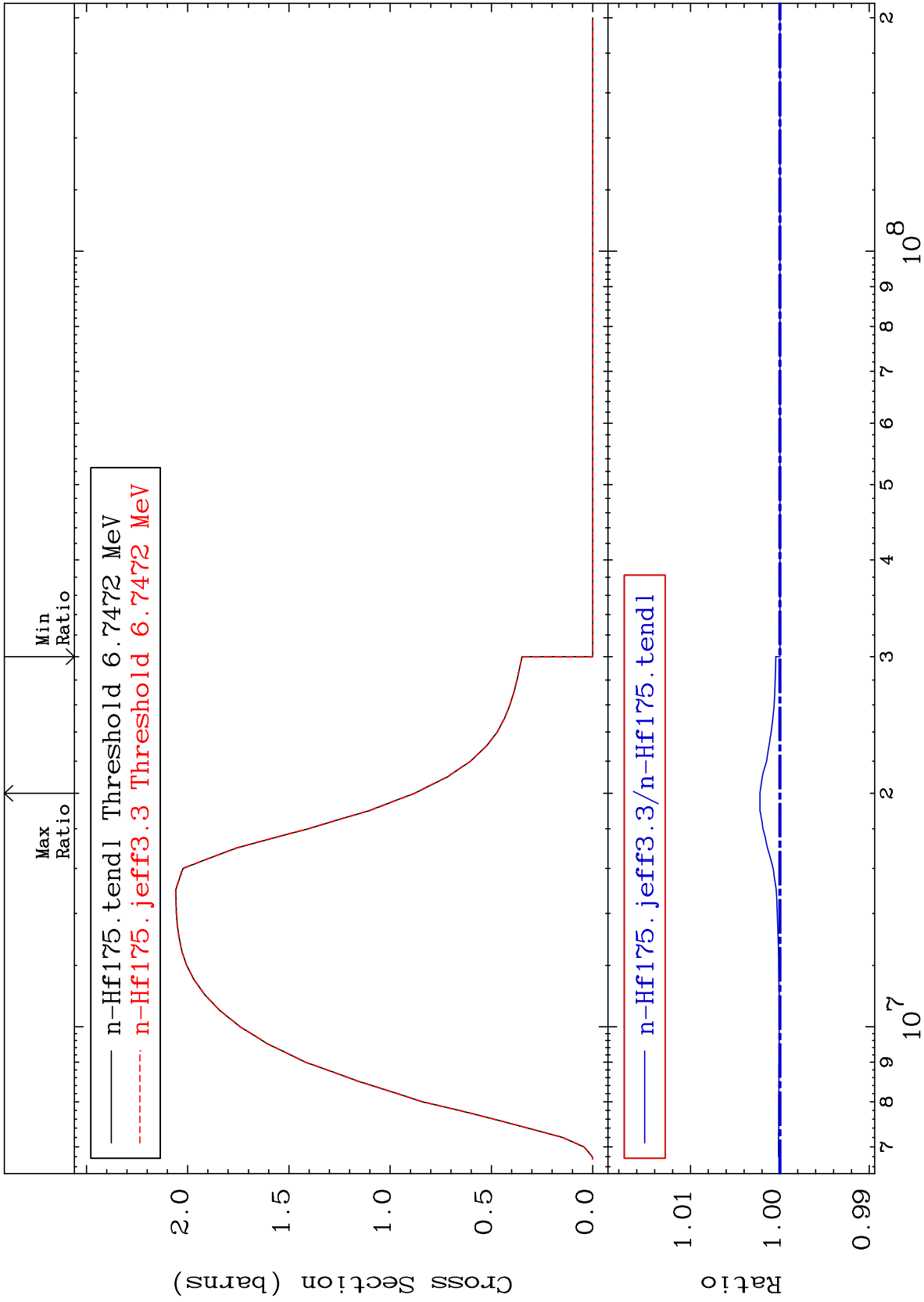
(n,2n)

72-Hf-175

Cross Section

0.000

To 0.223 %



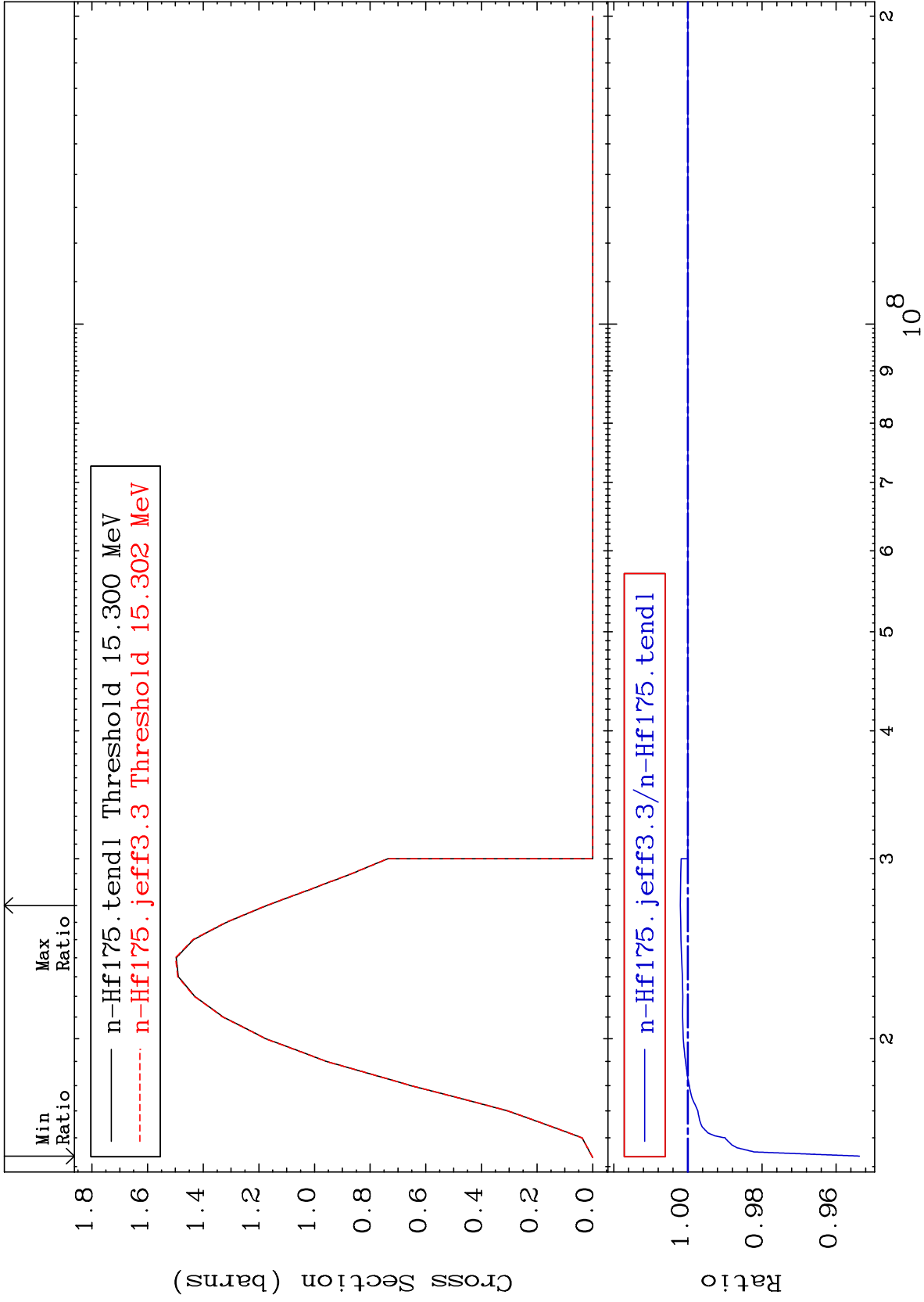
5

Incident Energy (eV)

72-Hf-175

Cross Section

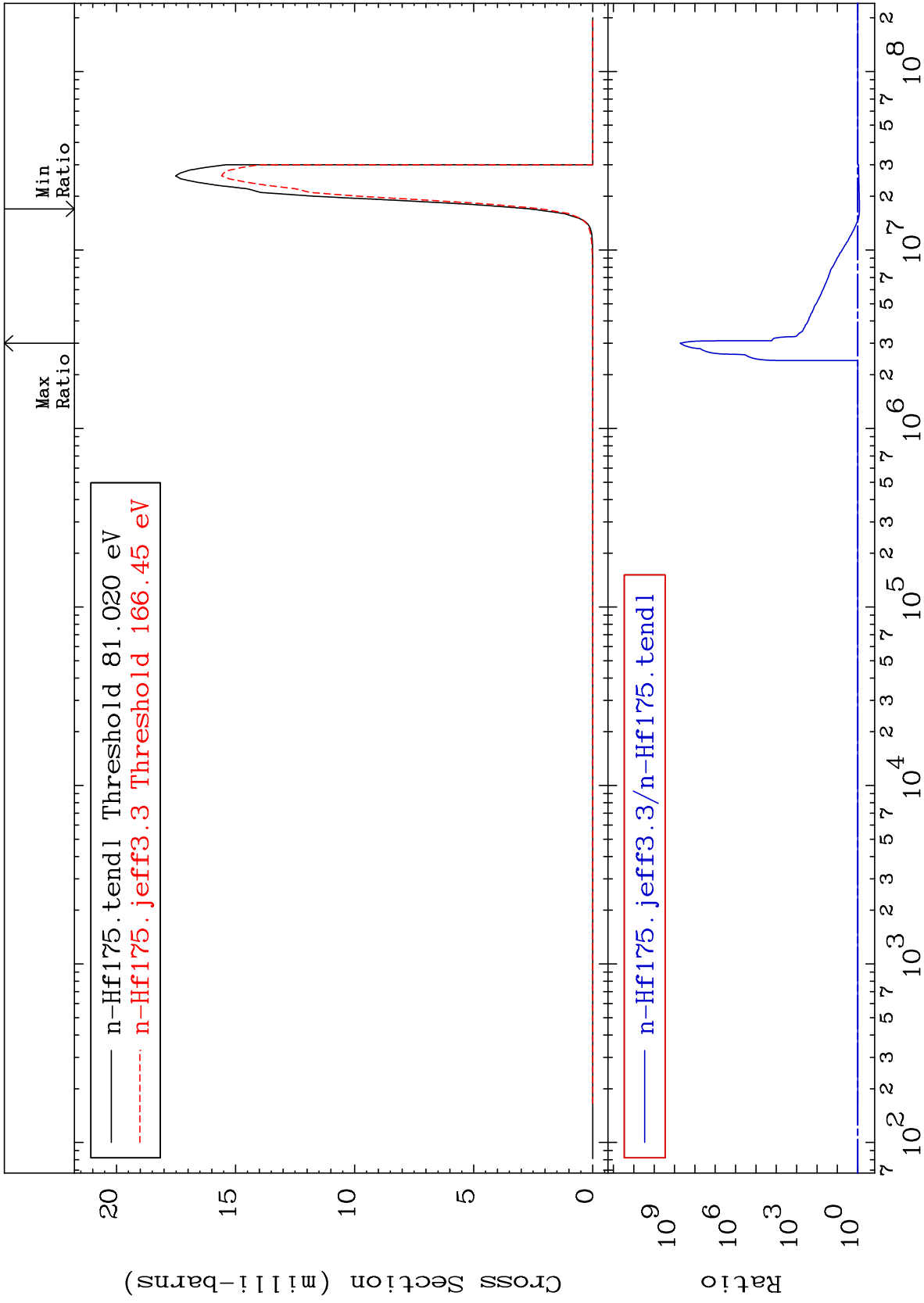
-4.629 To 0.202 %



MAT 7228

(n, n') α
Cross Section

72-Hf-175
-17.77 To 9999. %



Incident Energy (eV)

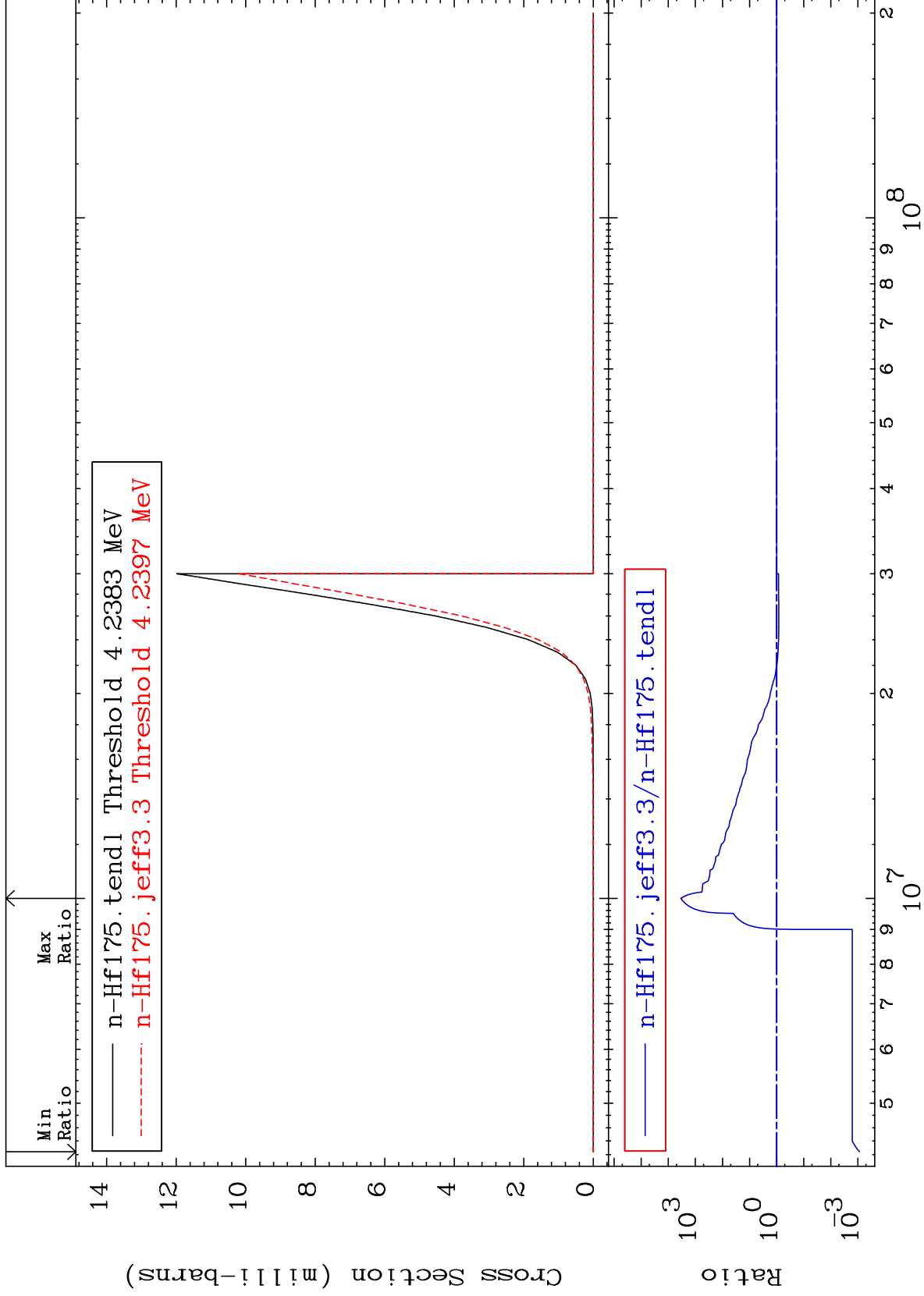
72-Hf-175

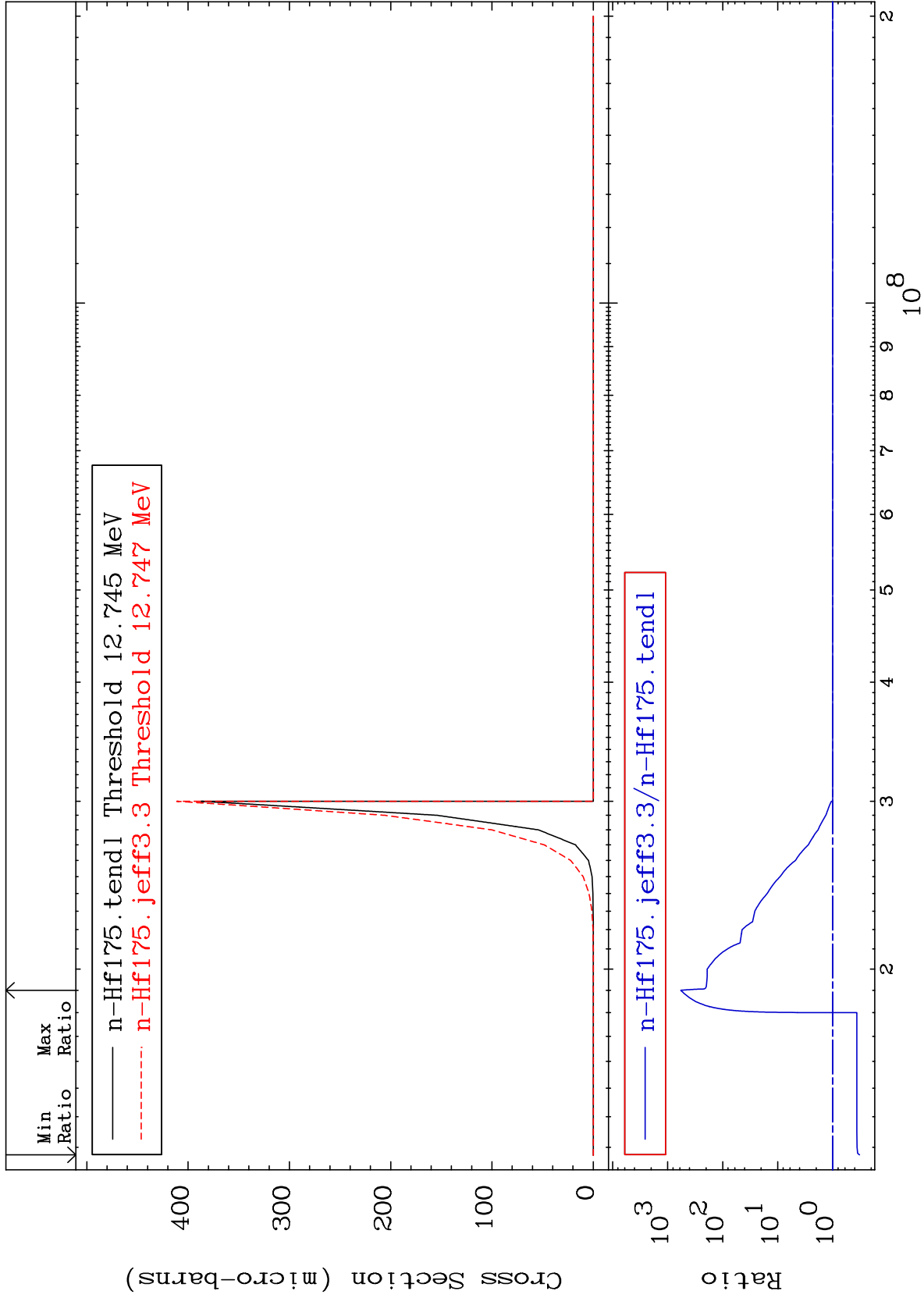
7

MAT 7228

(n,2n) α
Cross Section

72-Hf-175
-99.91 To 9999. %

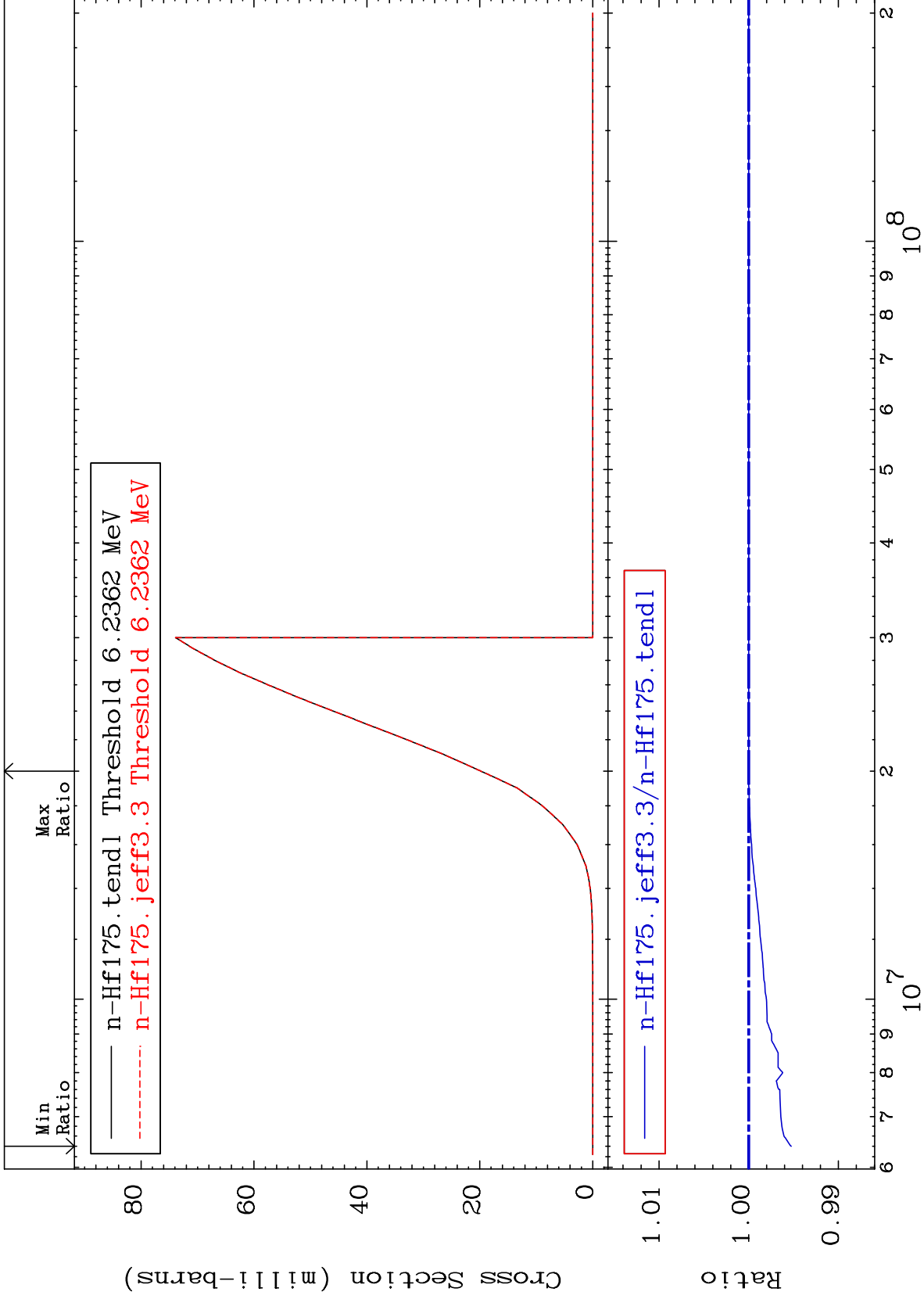




MAT 7228

(n,n') p
Cross Section

72-Hf-175
-0.473 To 0.001 %



10

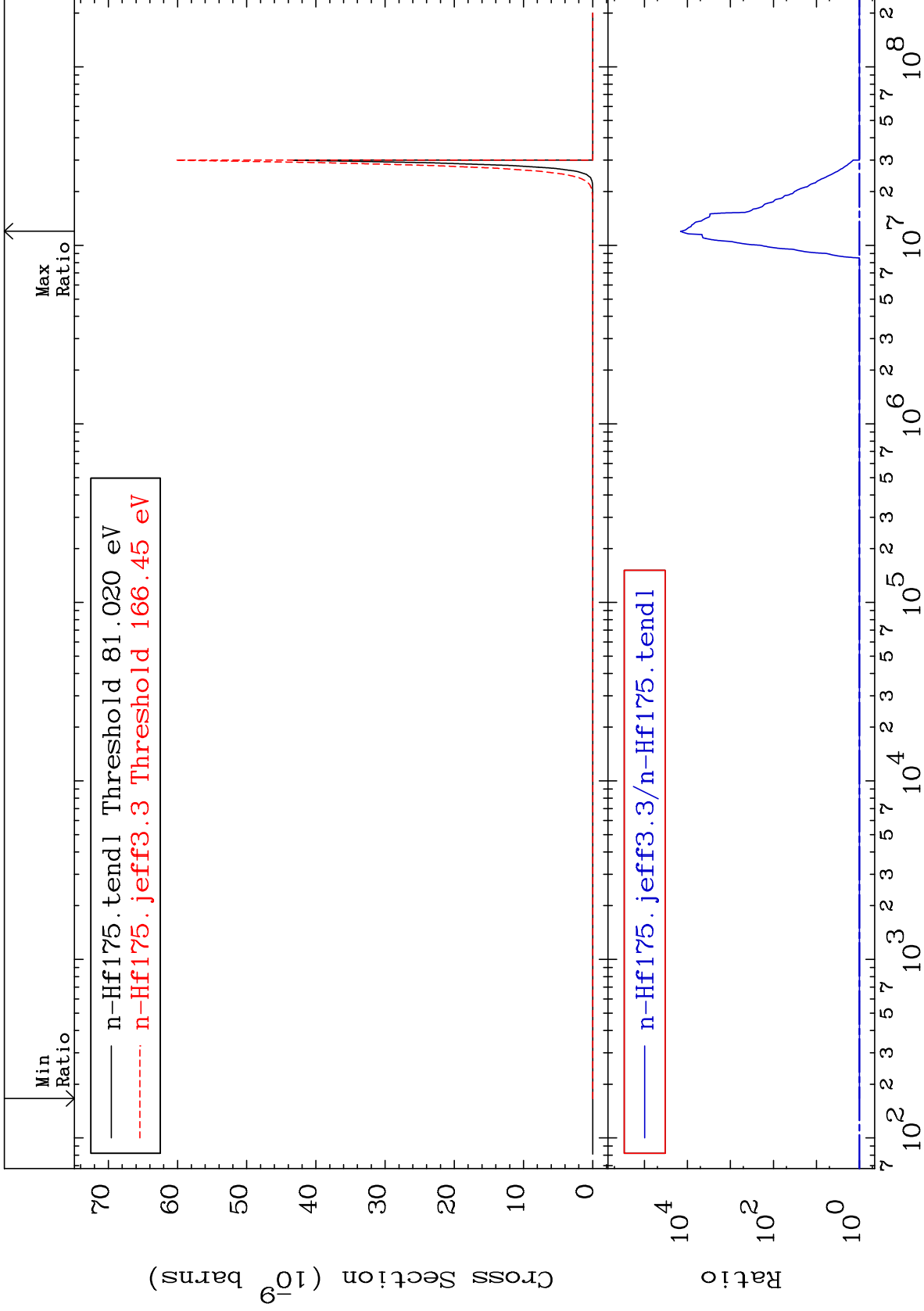
Incident Energy (eV)

72-Hf-175

MAT 7228

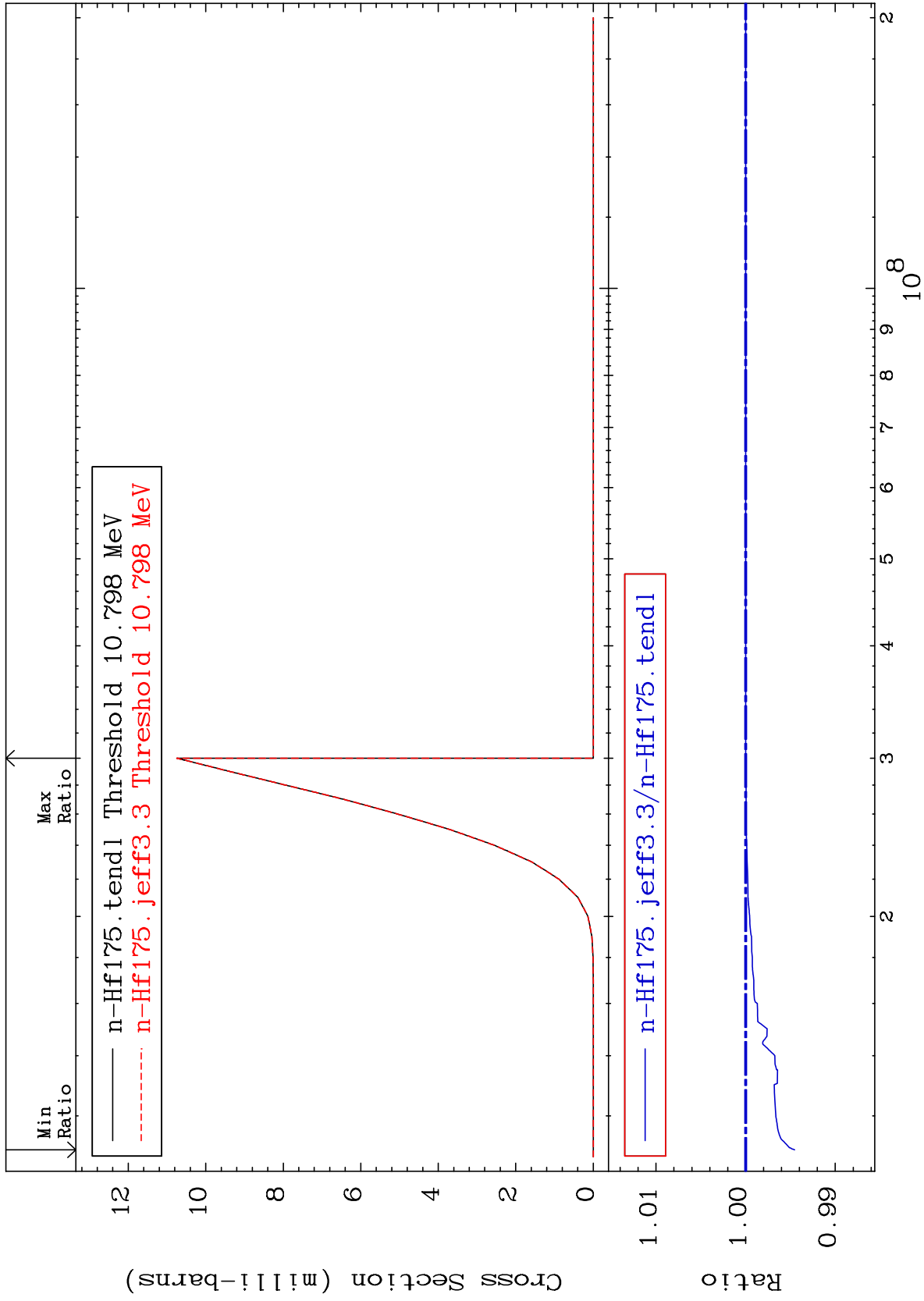
(n, n') 2α
Cross Section

72-Hf-175
To 9999. %



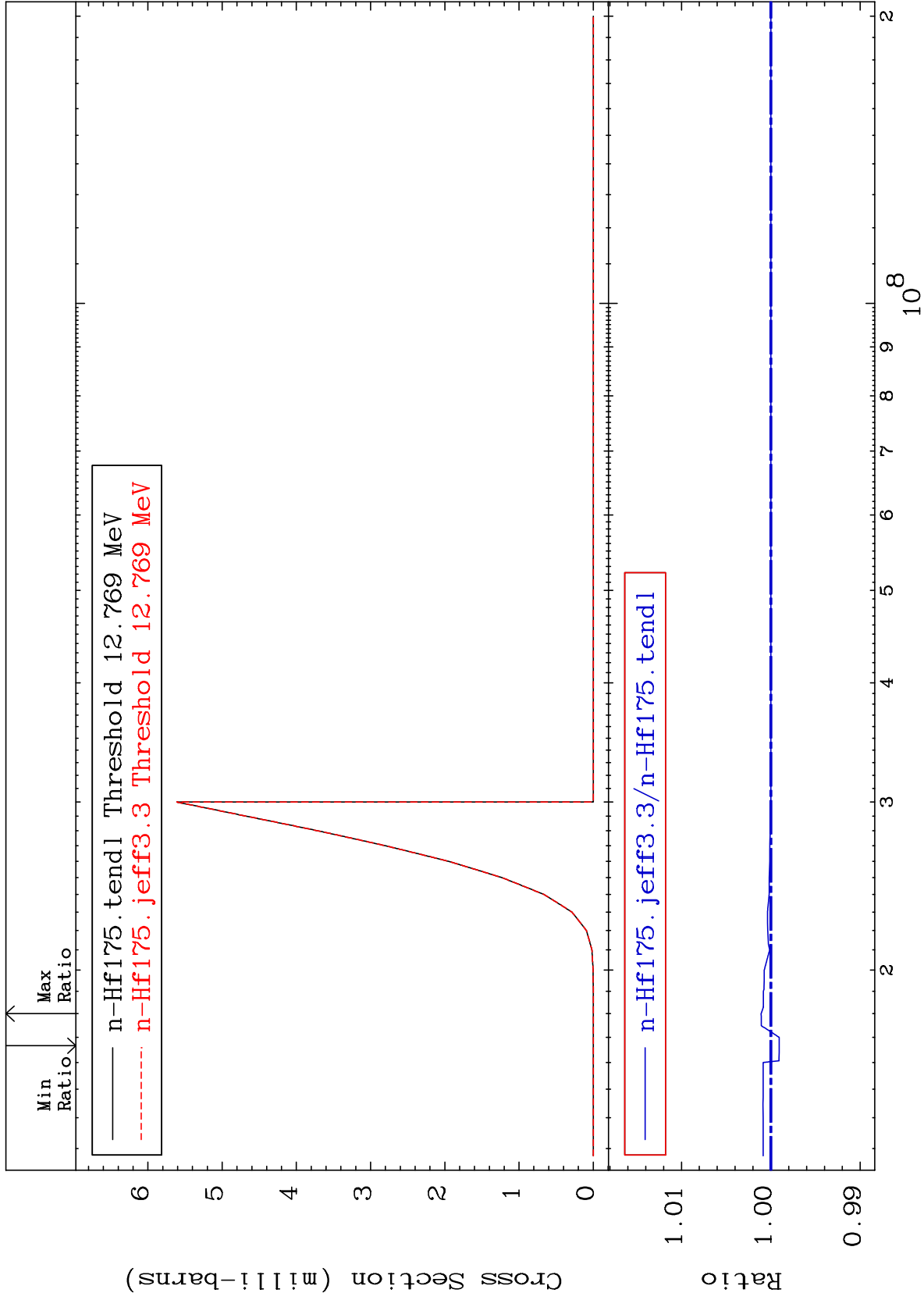
Cross Section

-0.547 To 0.000 %



Cross Section

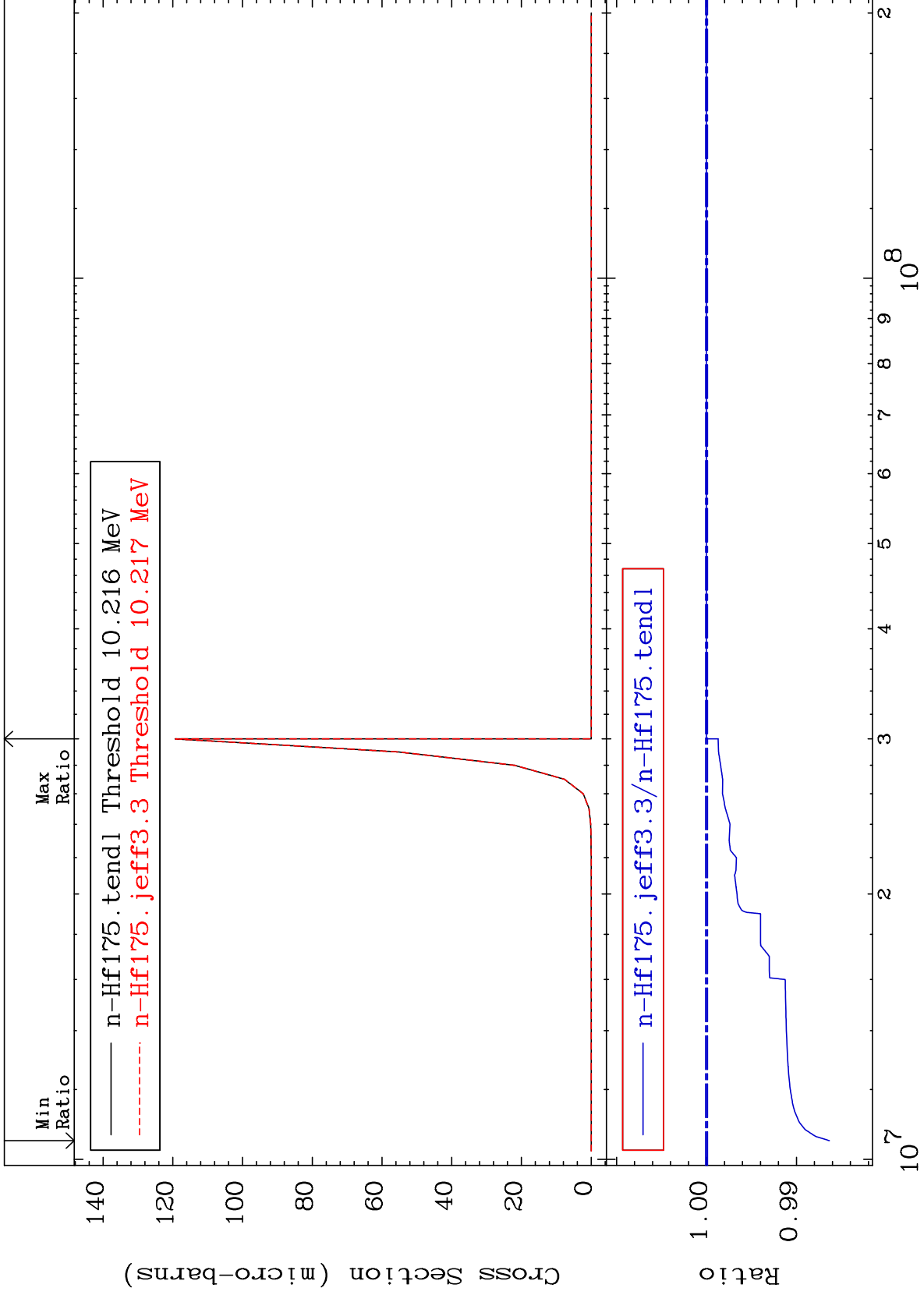
-0.093 To 0.108 %



MAT 7228

(n, n') He-3
Cross Section

72-Hf-175
-1.366 To 0.000 %



14

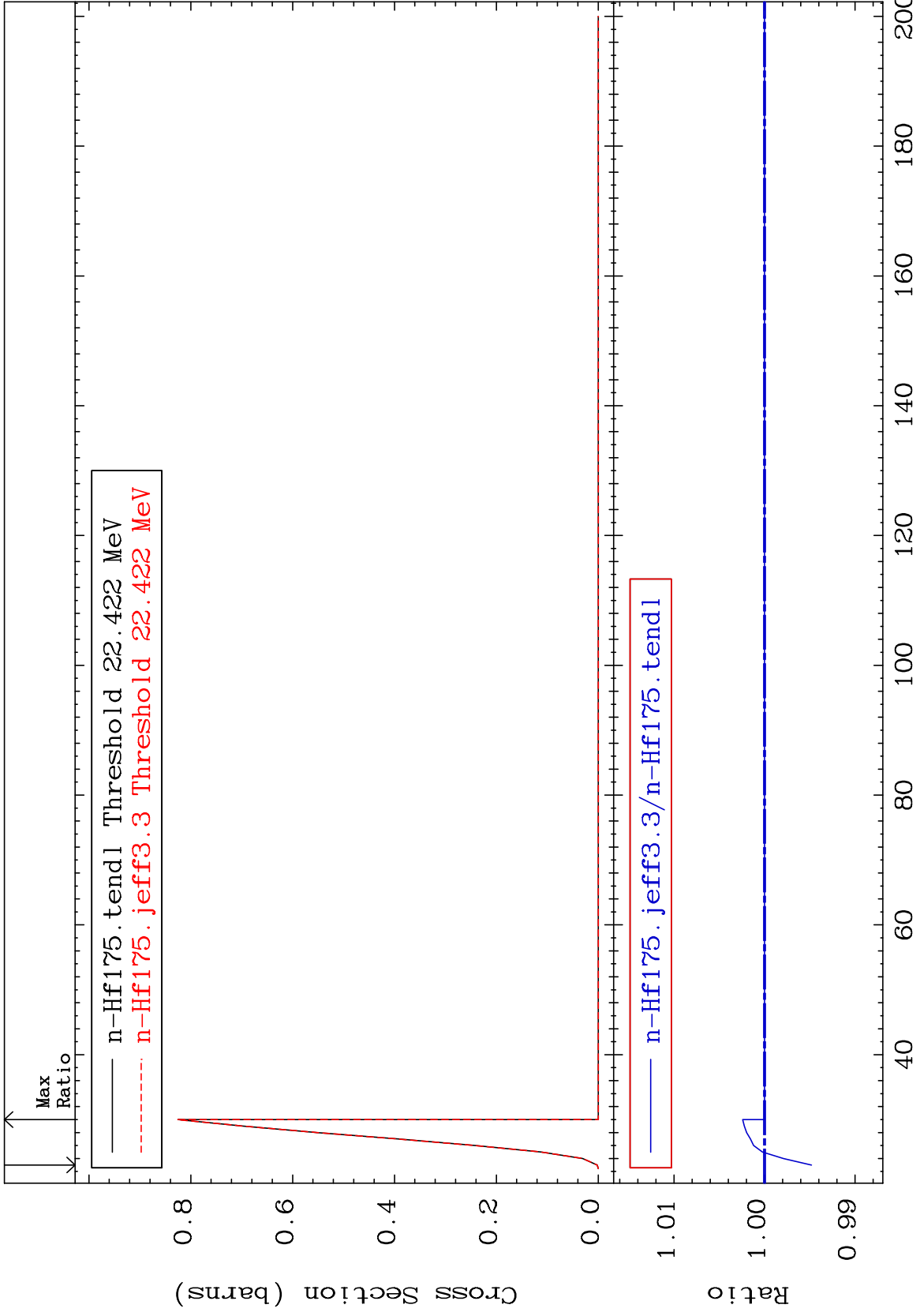
Incident Energy (eV)

72-Hf-175

MAT 7228

(n,4n)
Cross Section

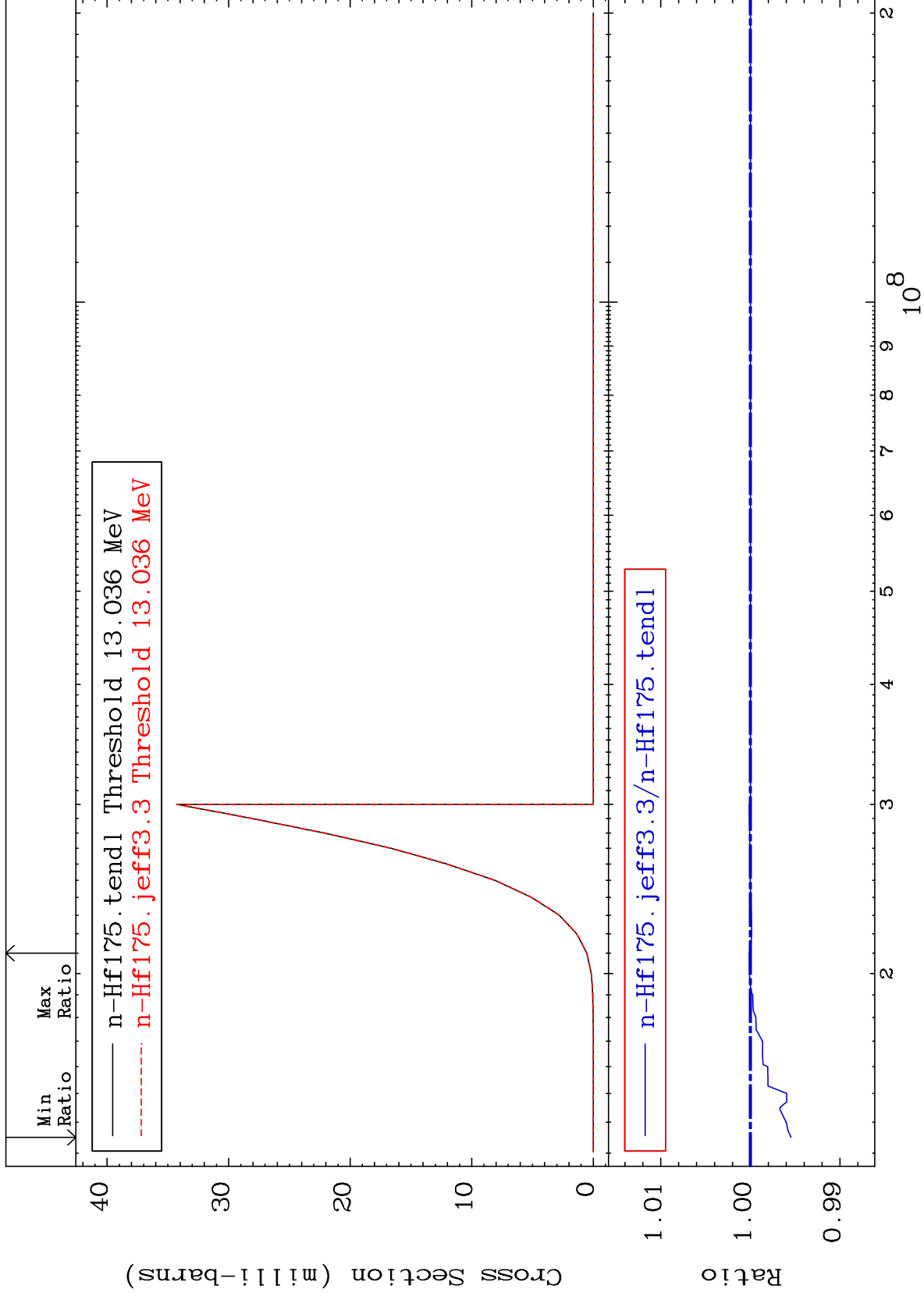
72-Hf-175
-0.518 To 0.241 %



MAT 7228

(n,2n) p
Cross Section

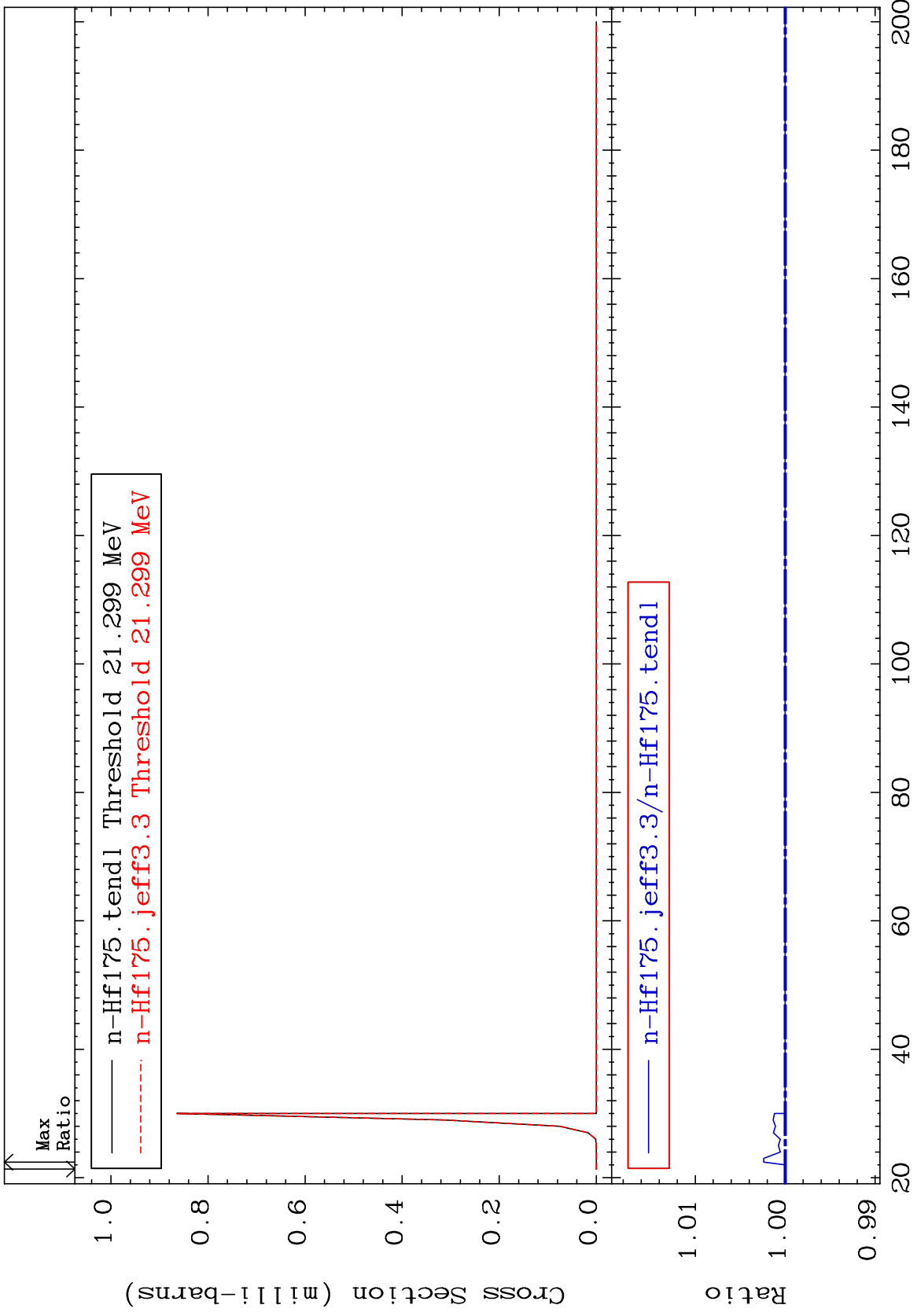
⁷²Hf-175
-0.455 To 0.014 %

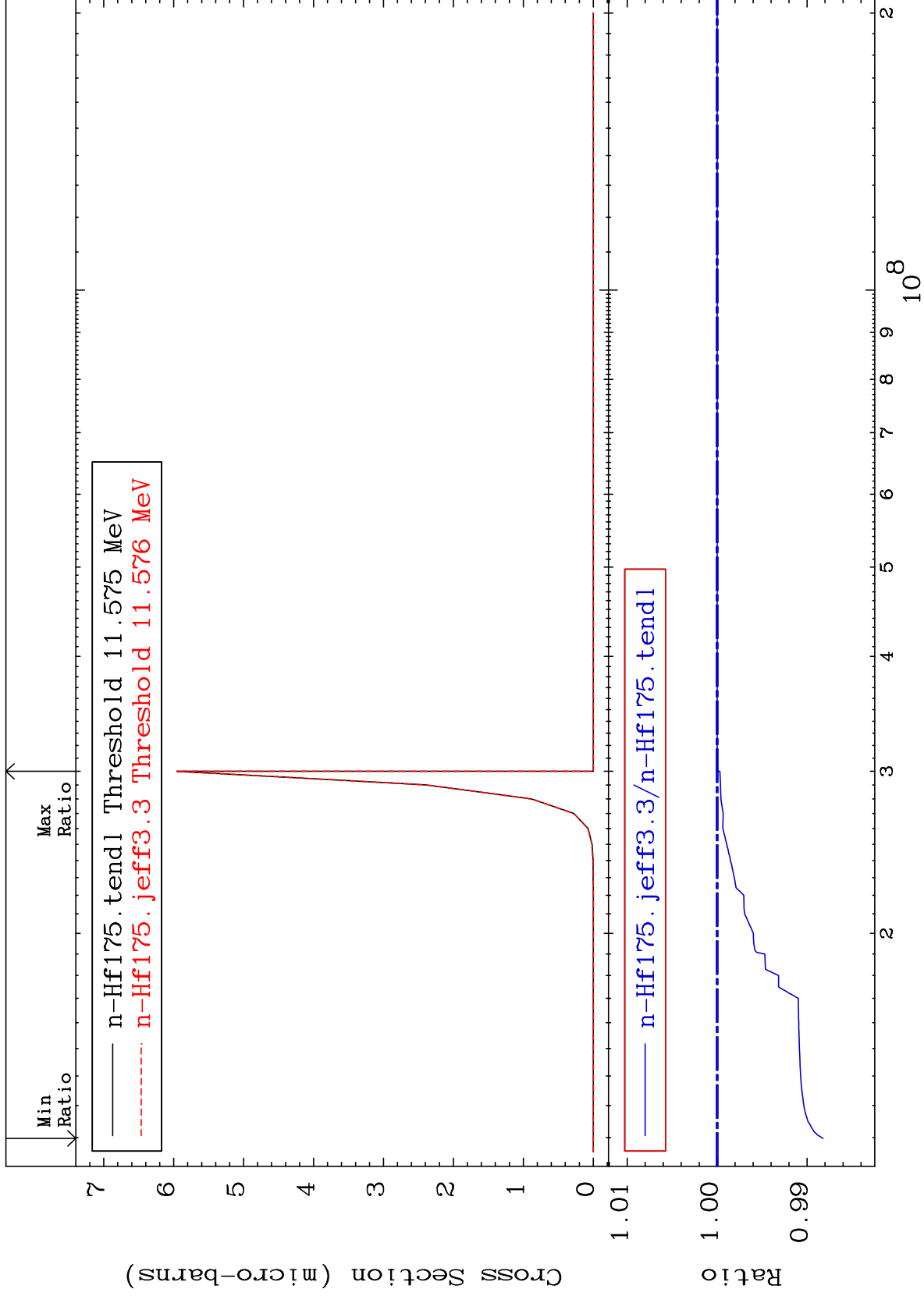


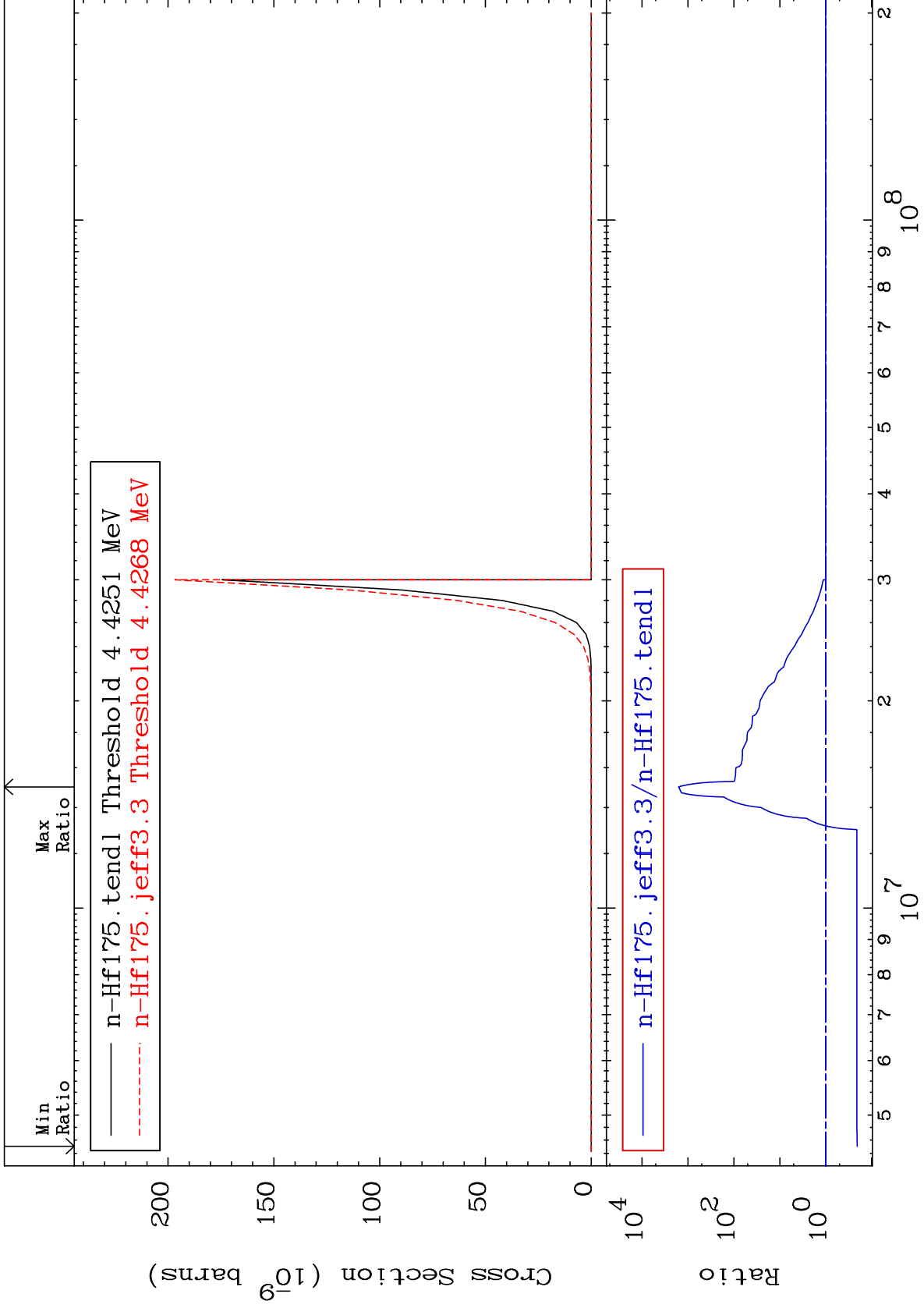
MAT 7228

(n,3n) p
Cross Section

72-Hf-175
-0.002 To 0.239 %



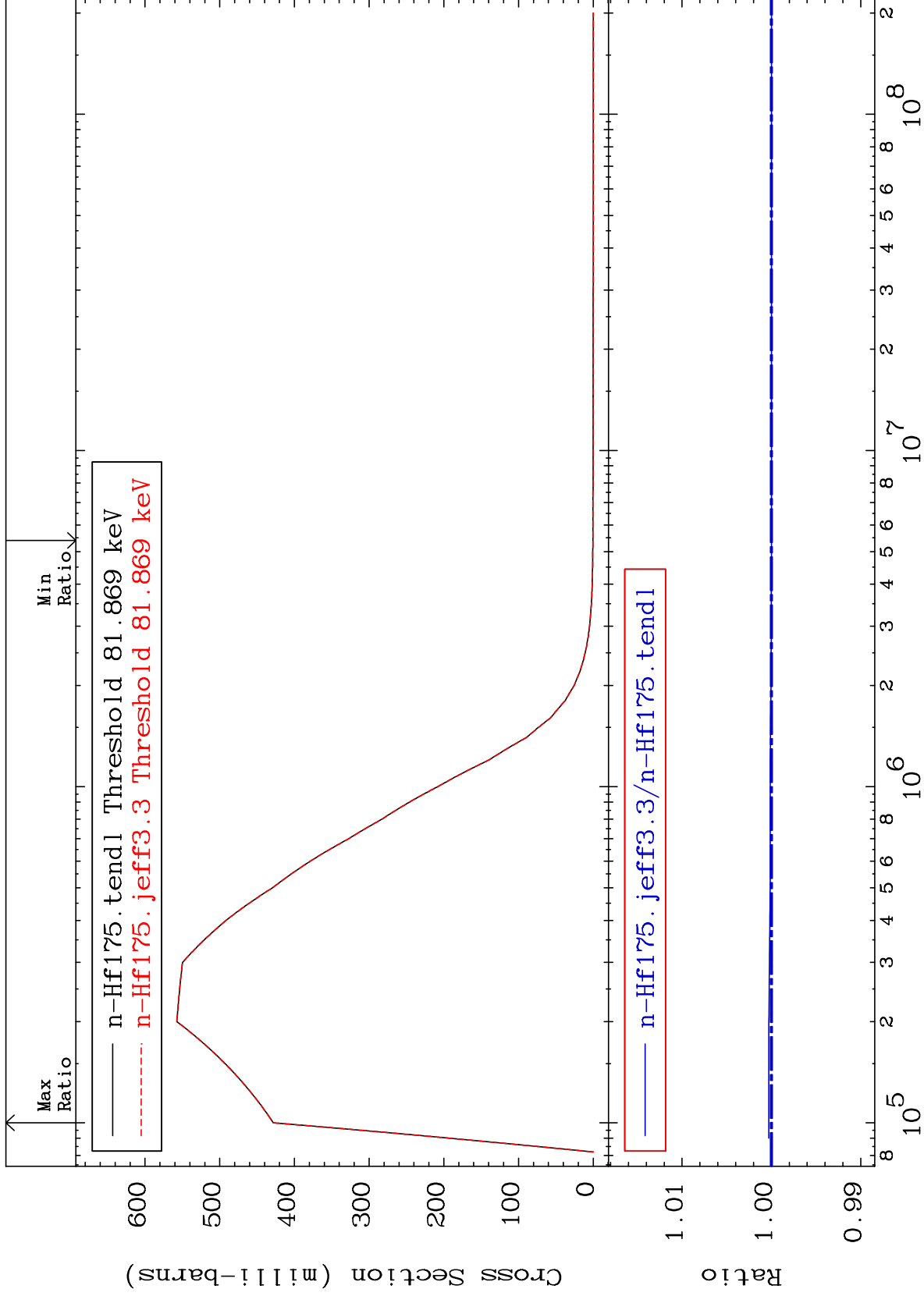




MAT 7228

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

72-Hf-175
0.000 To 0.029 %



20

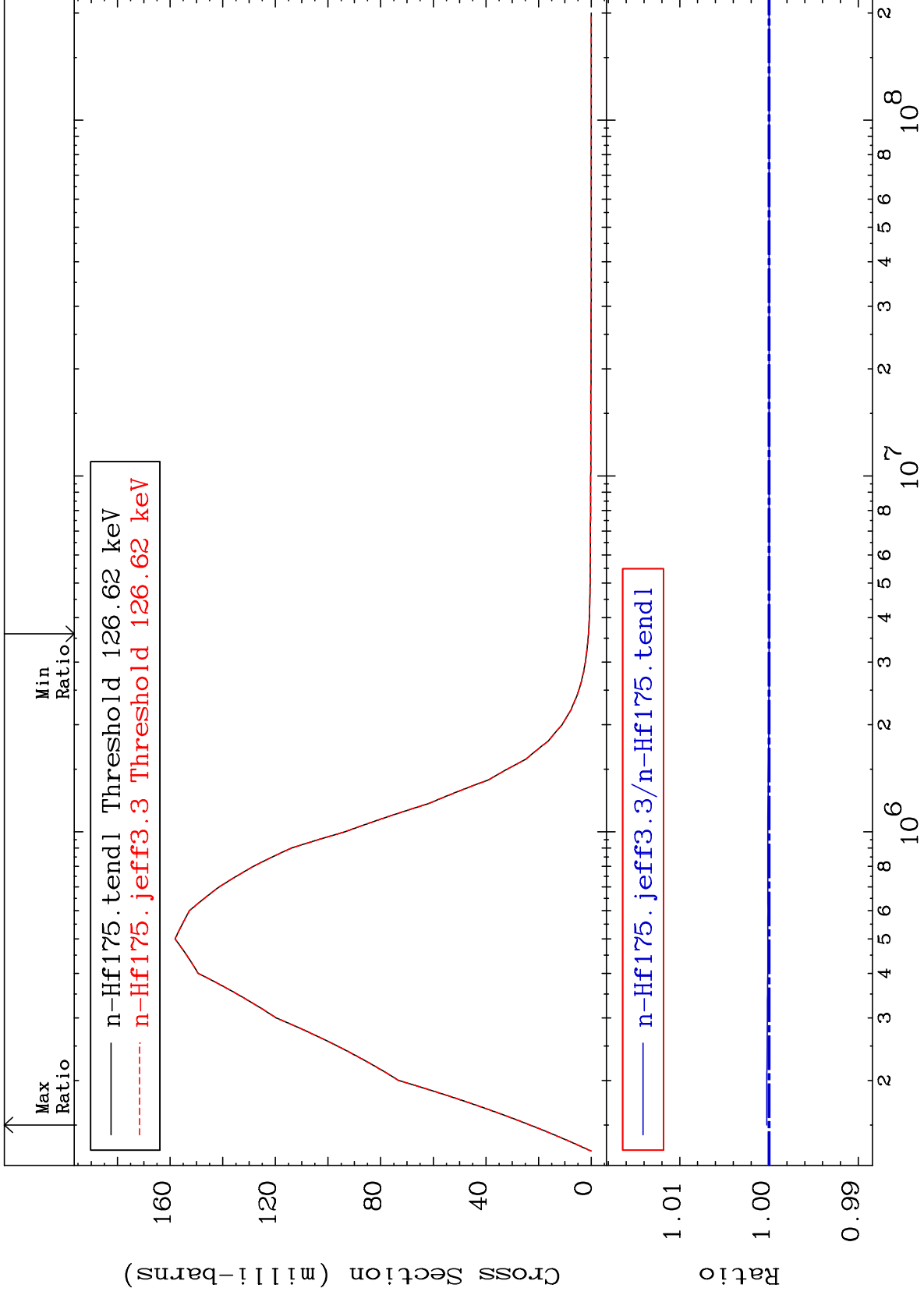
Incident Energy (eV)

72-Hf-175

MAT 7228

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

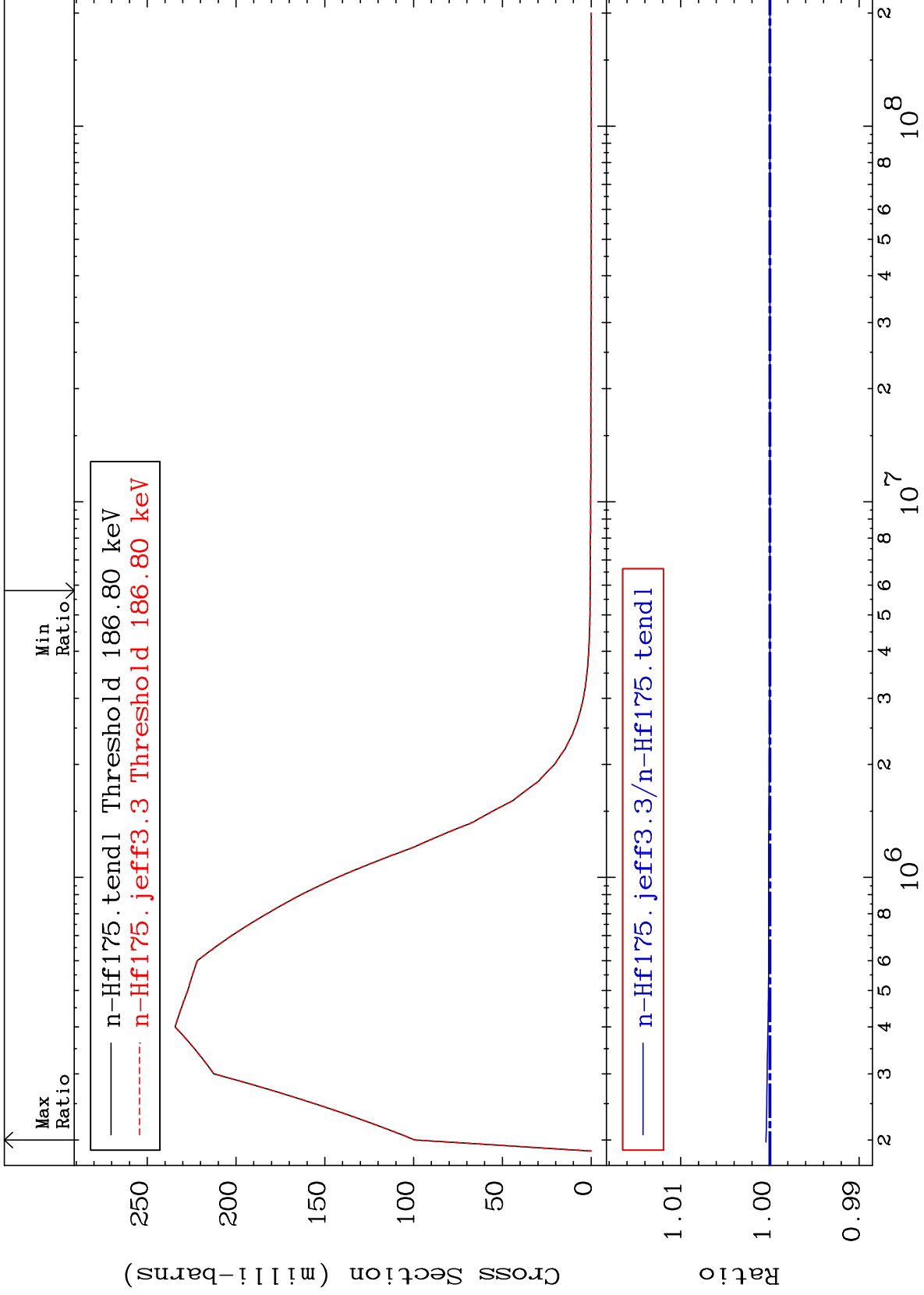
72-Hf-175
0.000 To 0.025 %



MAT 7228

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

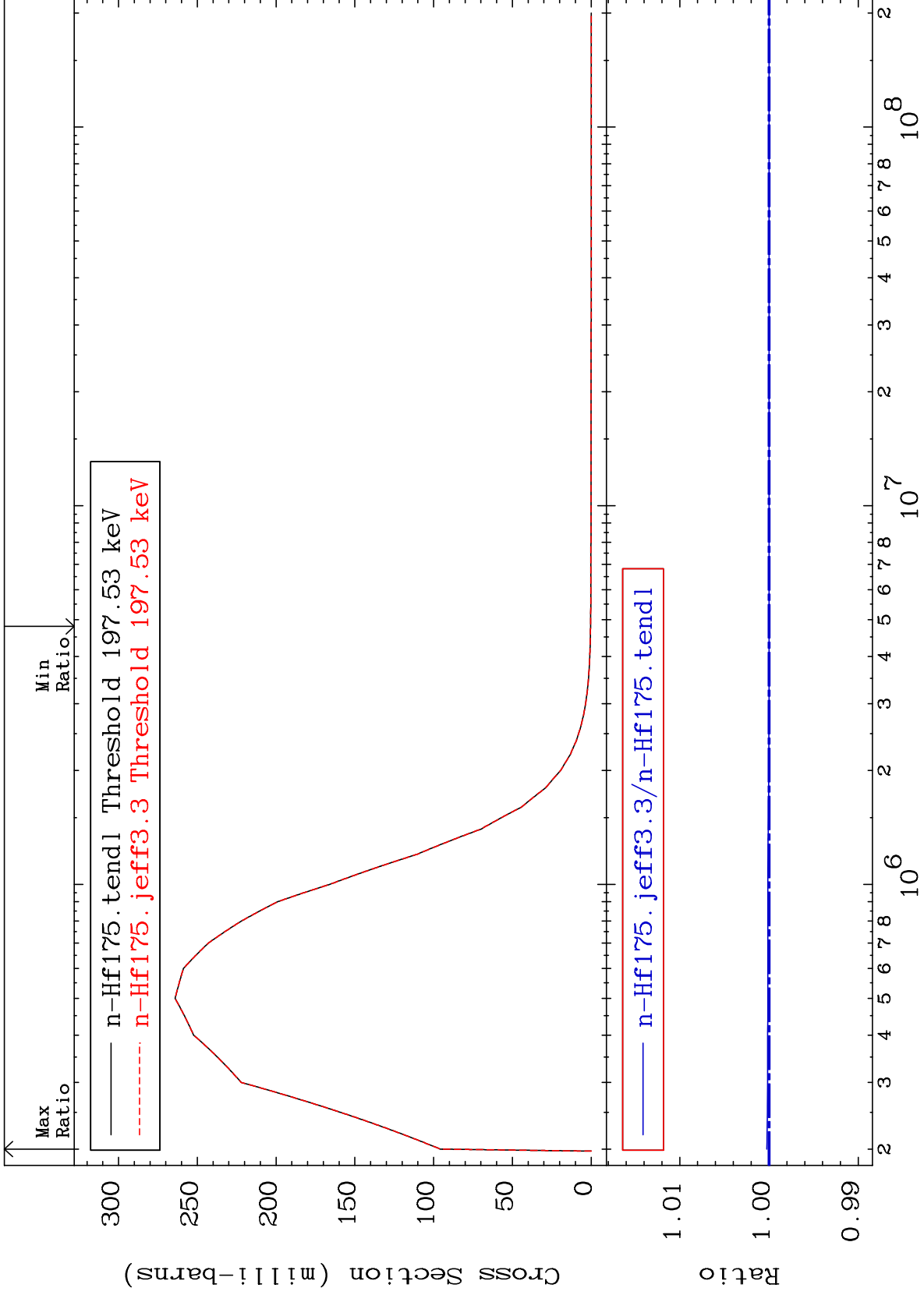
72-Hf-175
0.000 To 0.044 %



MAT 7228

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

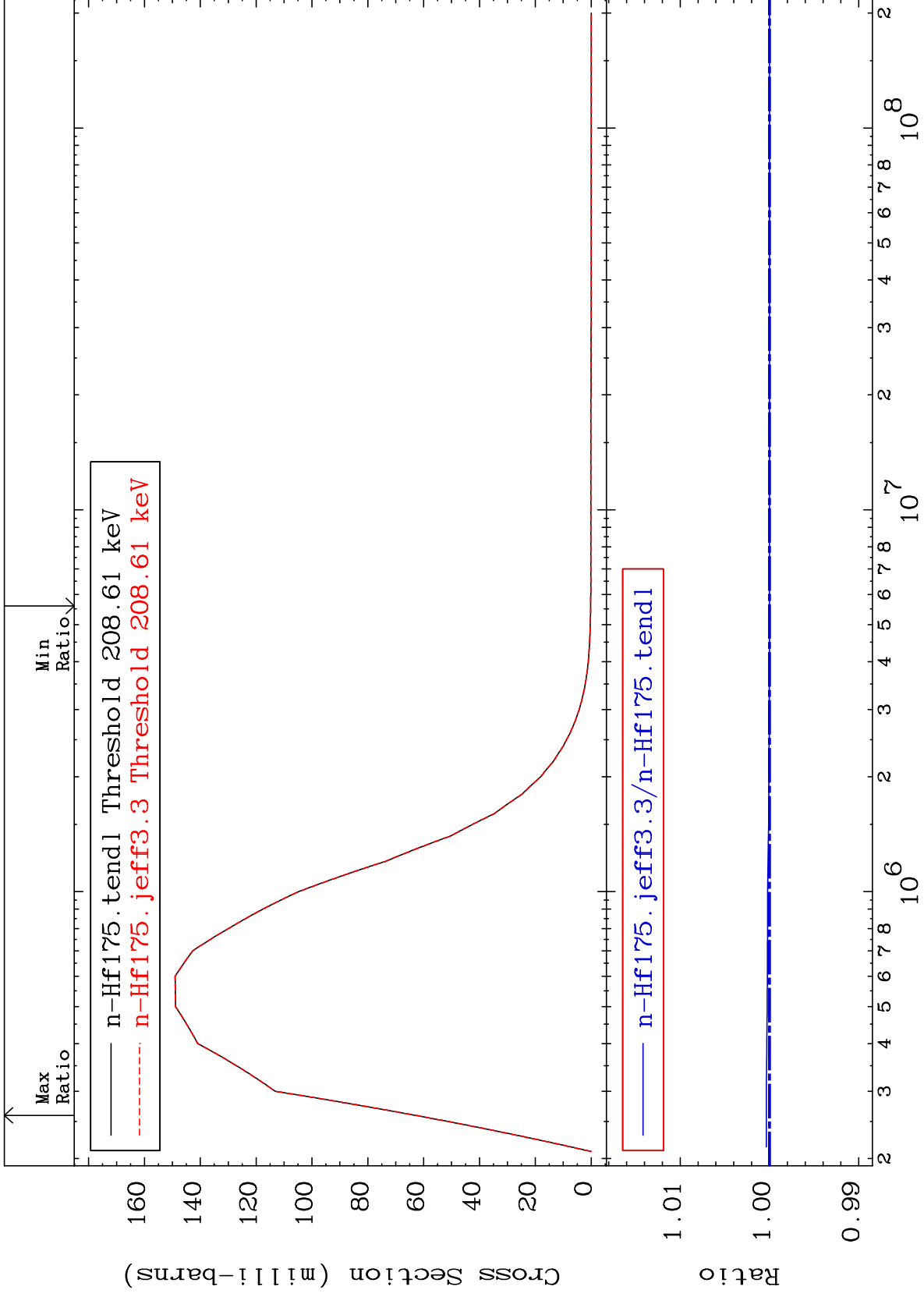
72-Hf-175
-0.001 To 0.026 %



MAT 7228

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

72-Hf-175
0.000 To 0.035 %



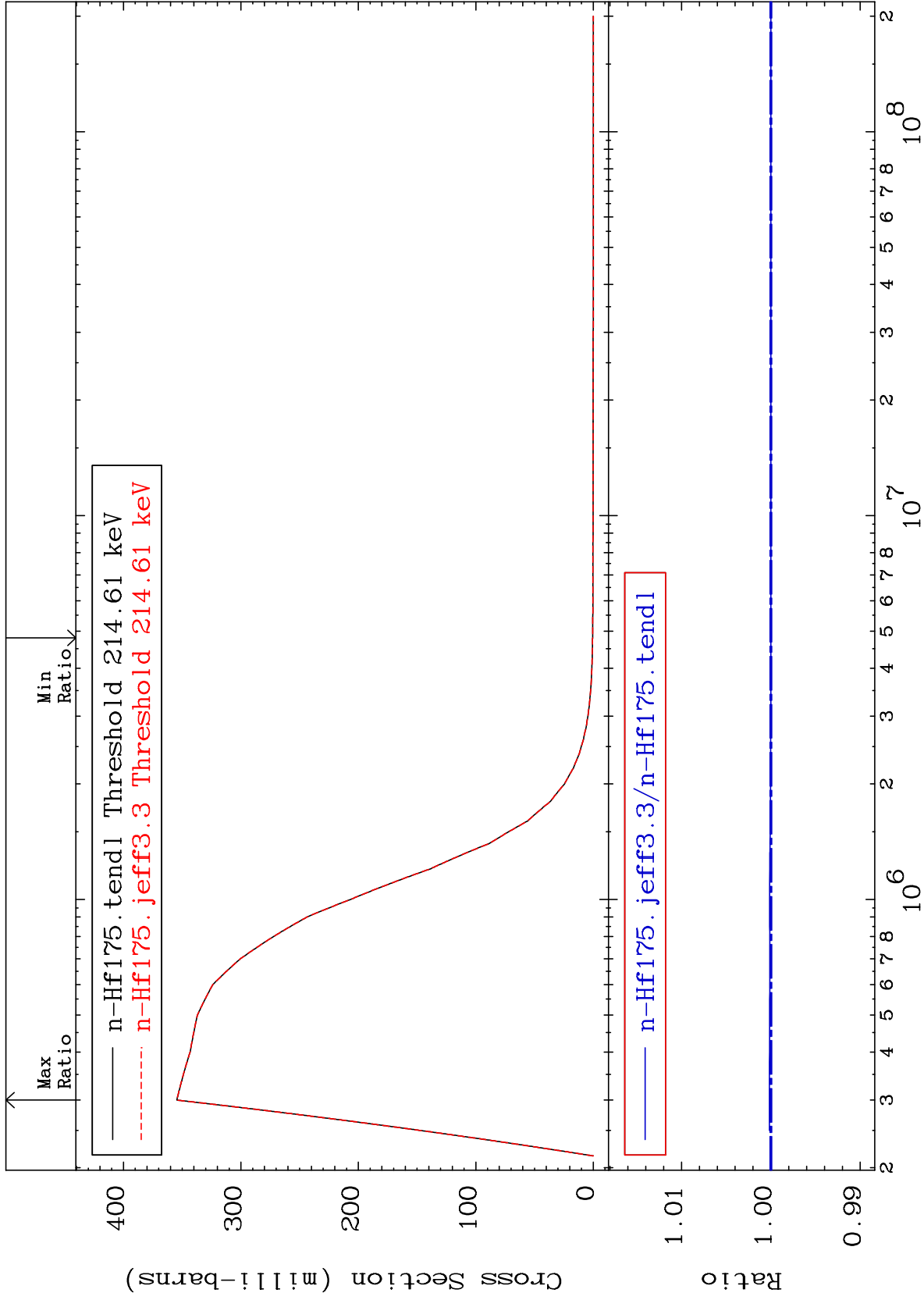
MAT 7228

MT= 56 (n,n') Level

72-Hf-175

Cross Section

0.000 To 0.017 %



25

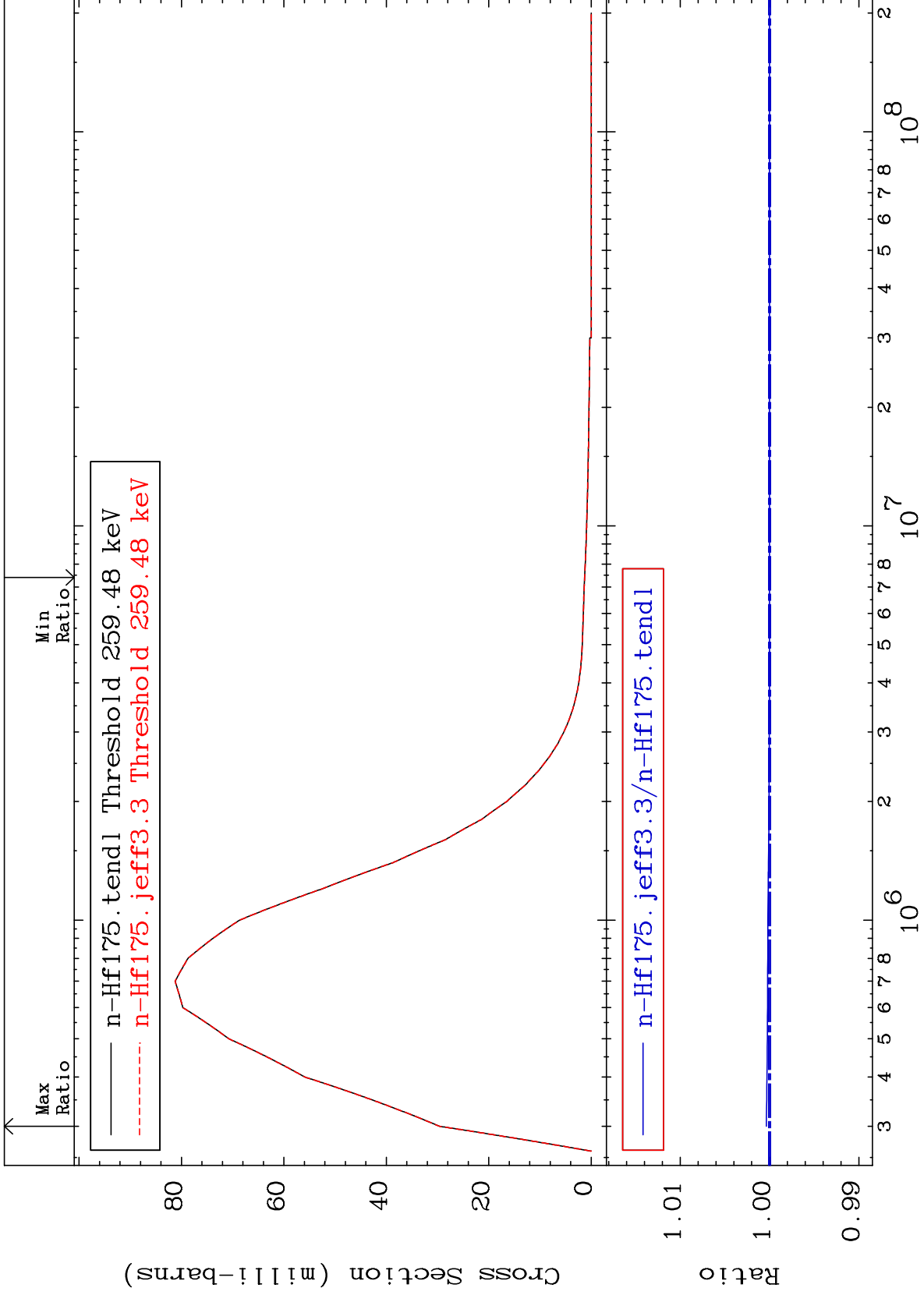
Incident Energy (eV)

72-Hf-175

MAT 7228

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

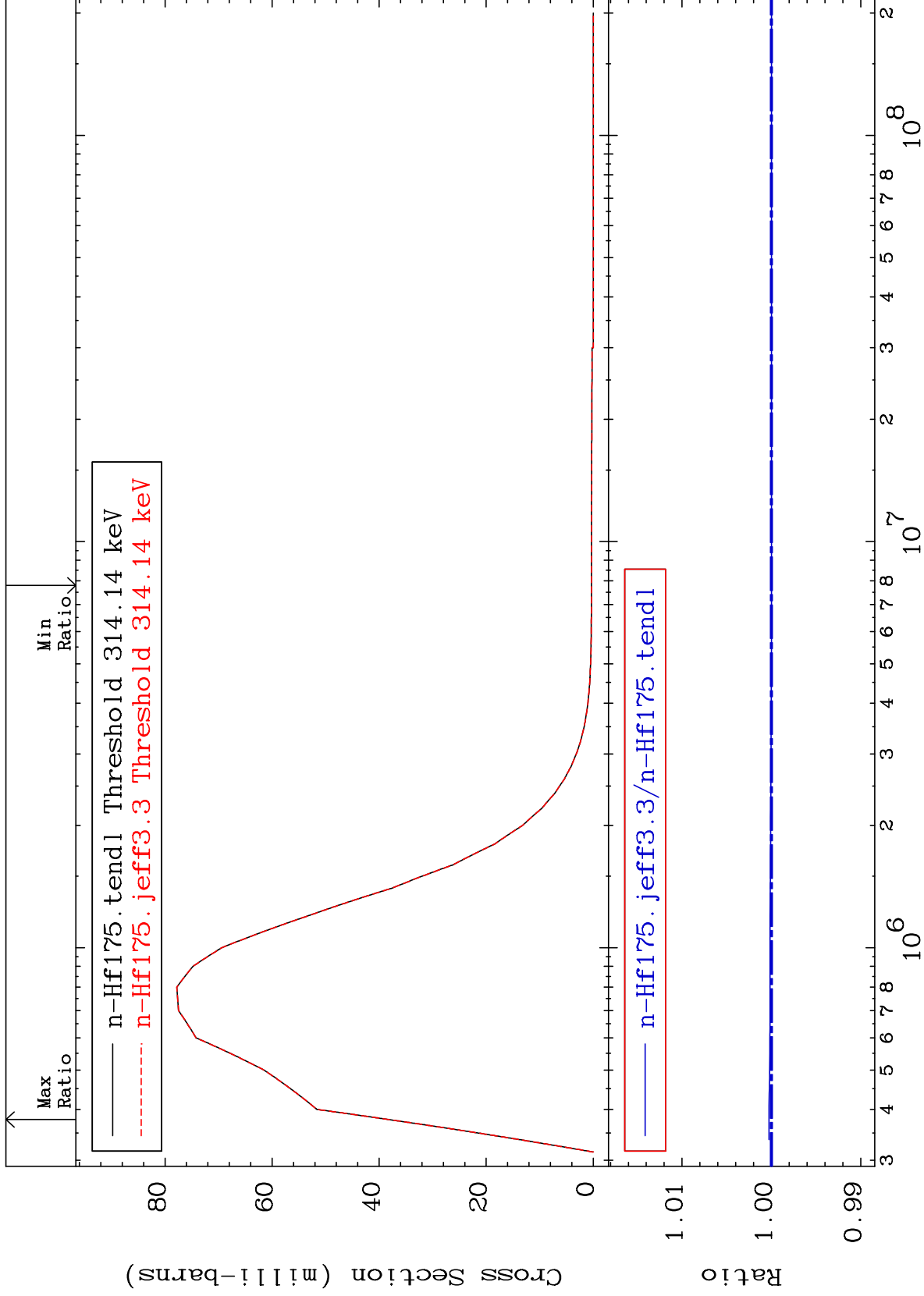
72-Hf-175
0.000 To 0.036 %



MAT 7228

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

72-Hf-175
0.000 To 0.028 %



27

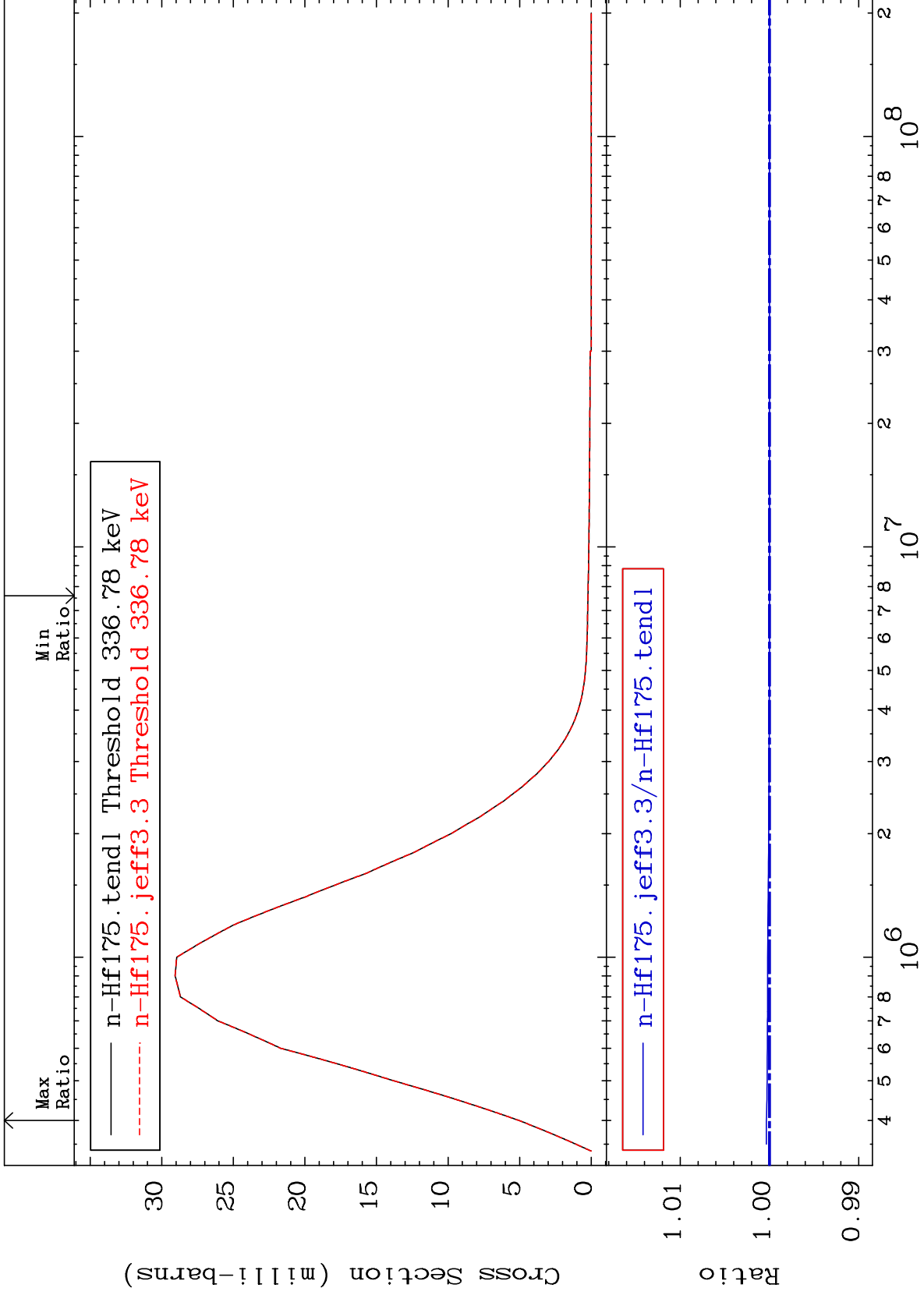
Incident Energy (eV)

72-Hf-175

MAT 7228

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

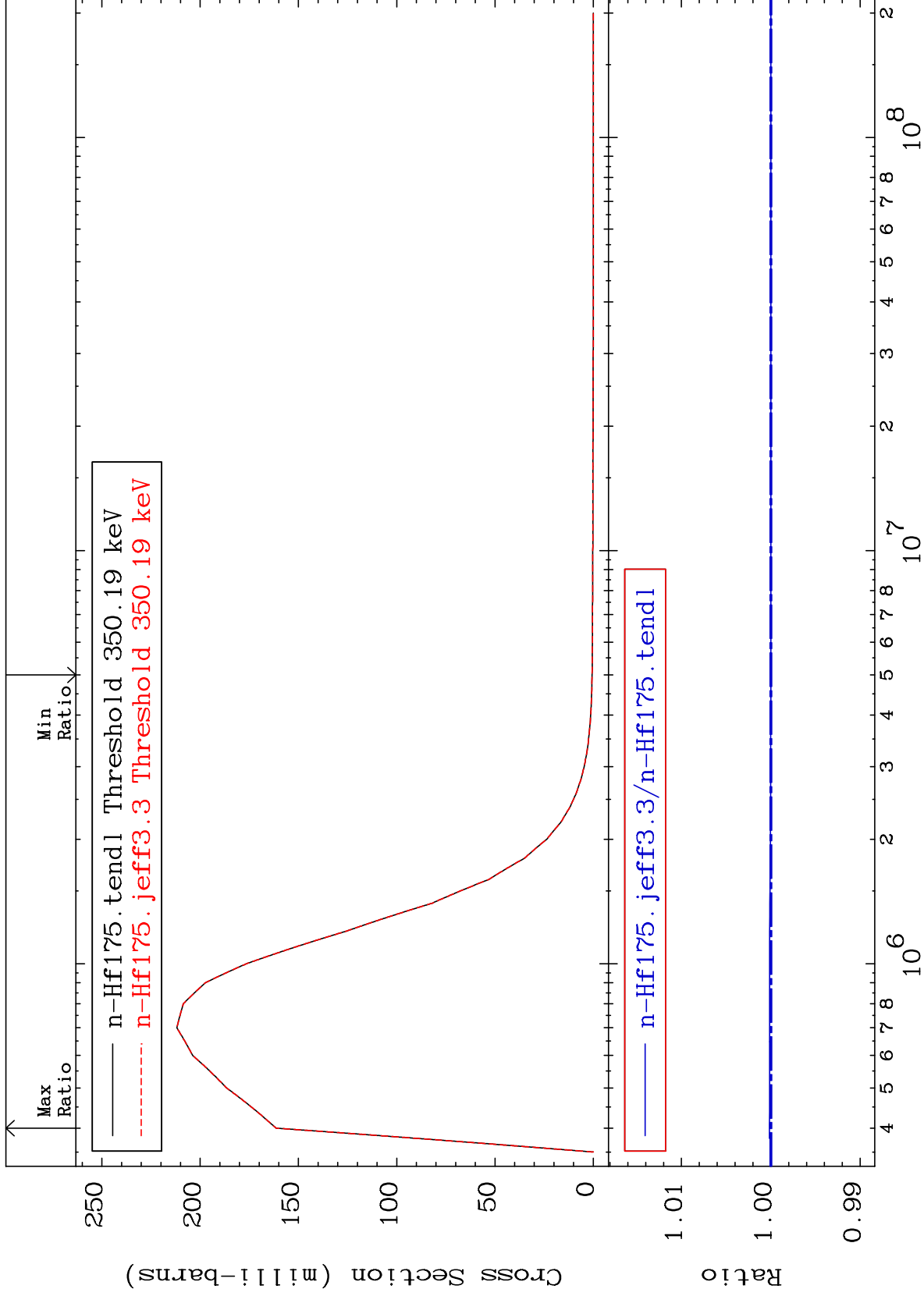
72-Hf-175
0.000 To 0.035 %



MAT 7228

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

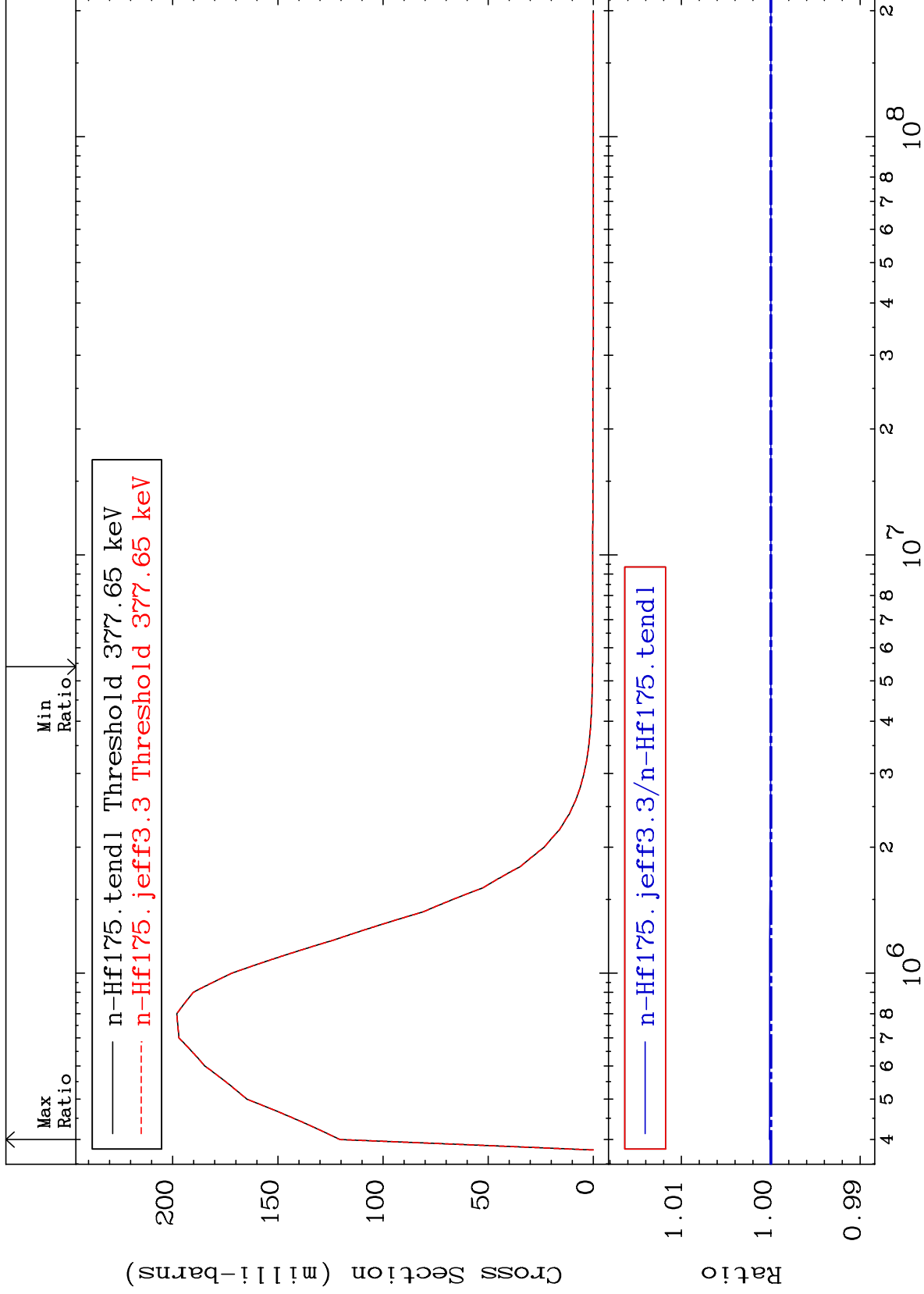
72-Hf-175
0.000 To 0.015 %



MAT 7228

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

72-Hf-175
0.000 To 0.016 %



30

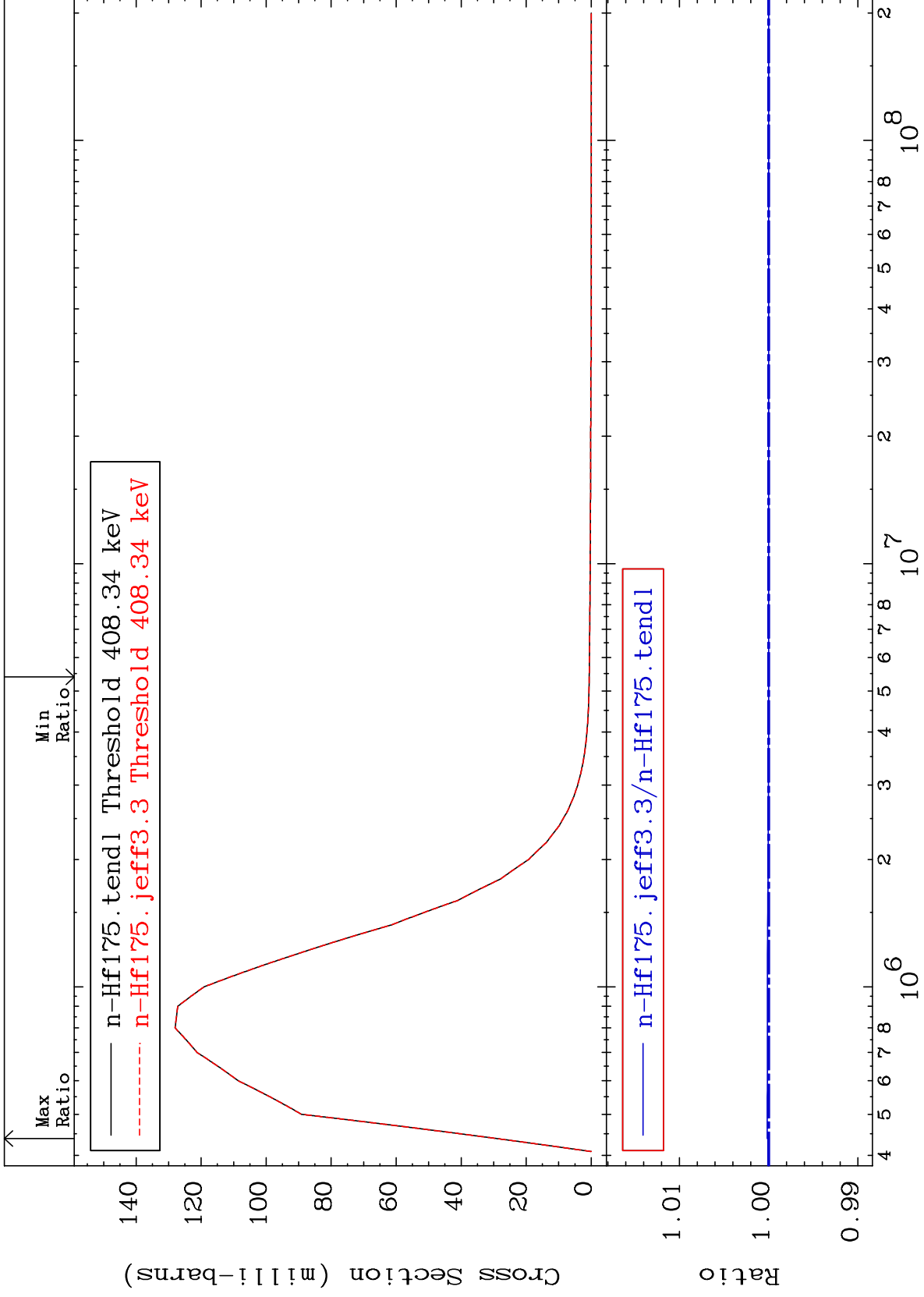
Incident Energy (eV)

72-Hf-175

MAT 7228

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

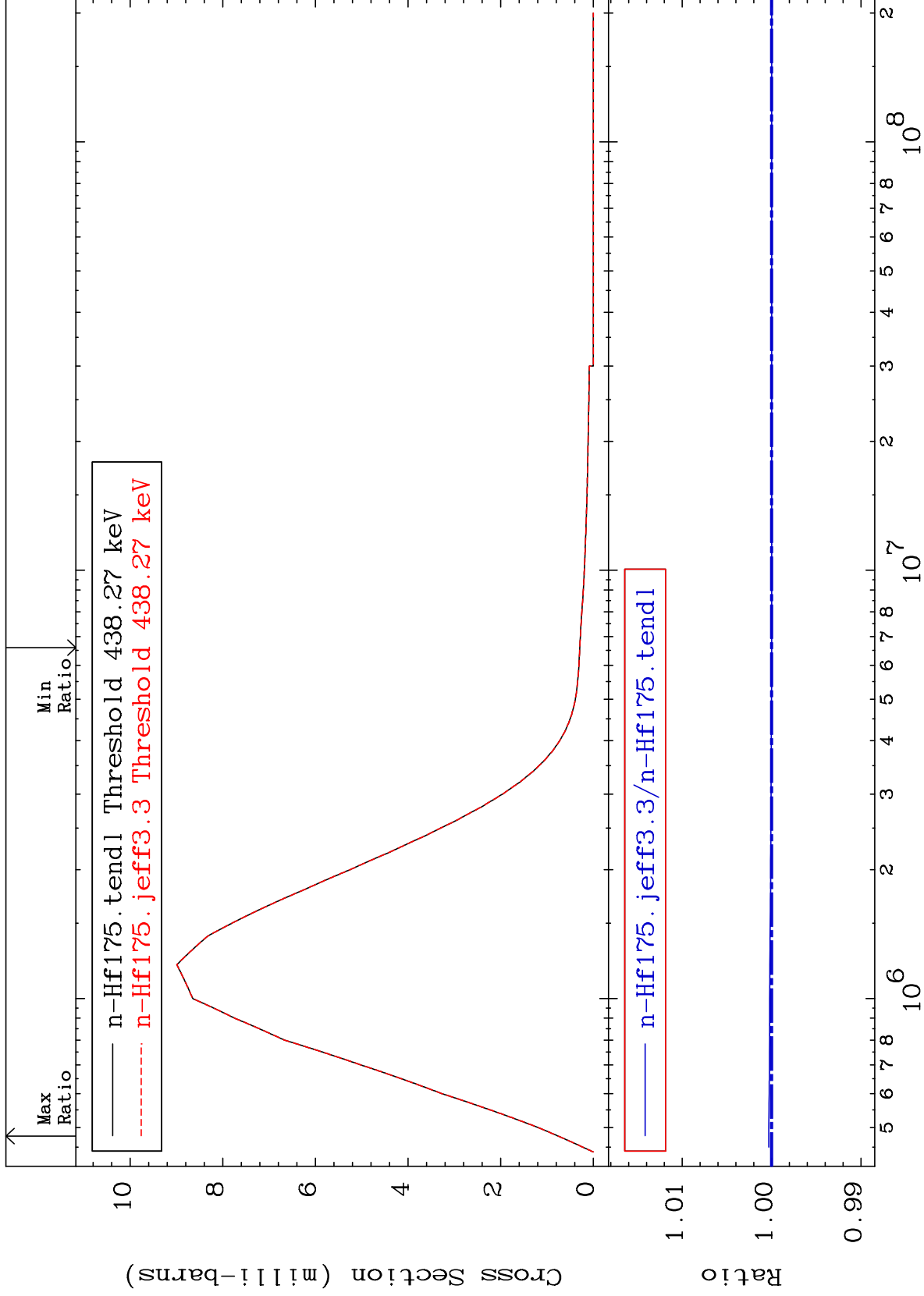
72-Hf-175
0.000 To 0.017 %



MAT 7228

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

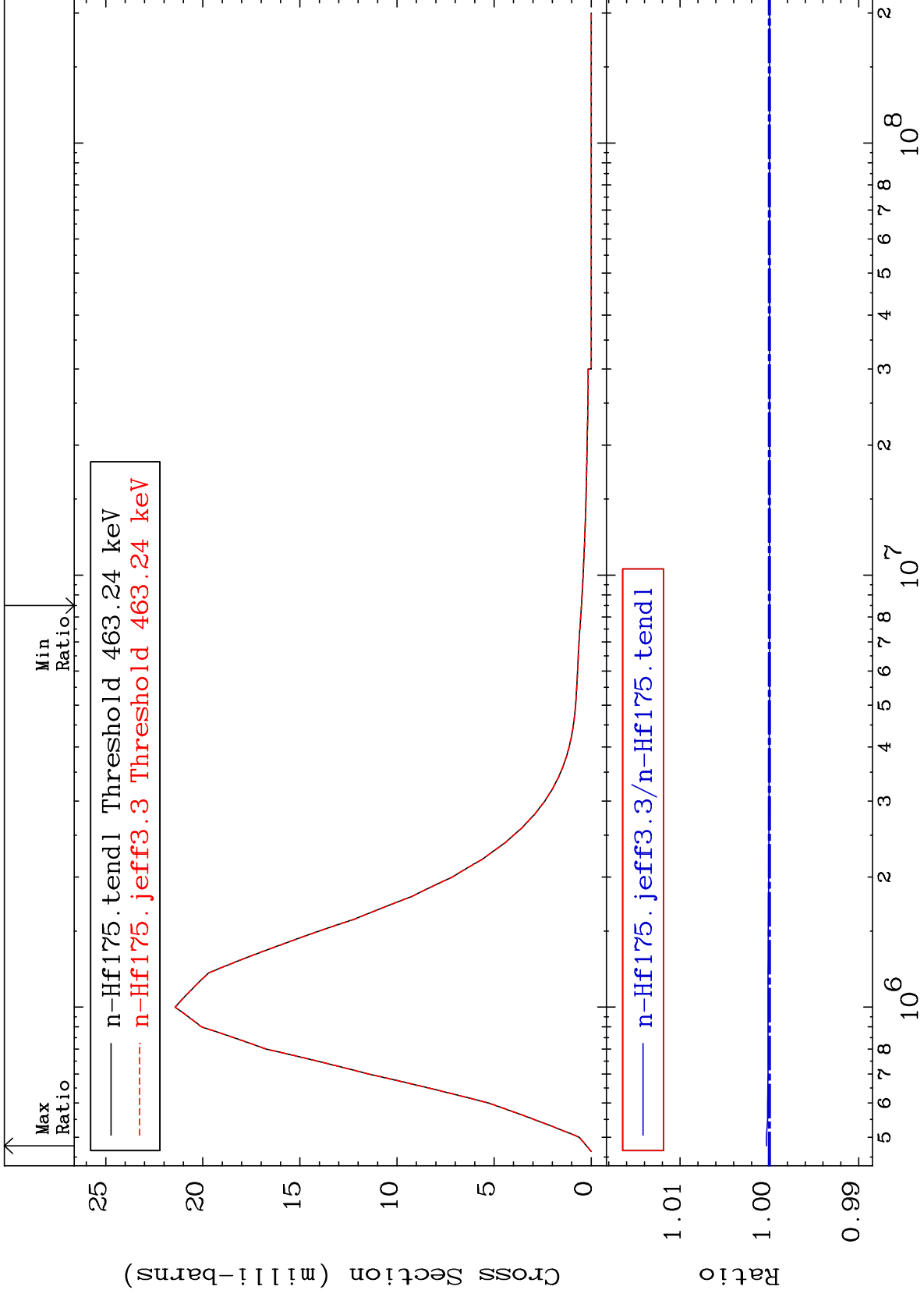
72-Hf-175
0.000 To 0.033 %



MAT 7228

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

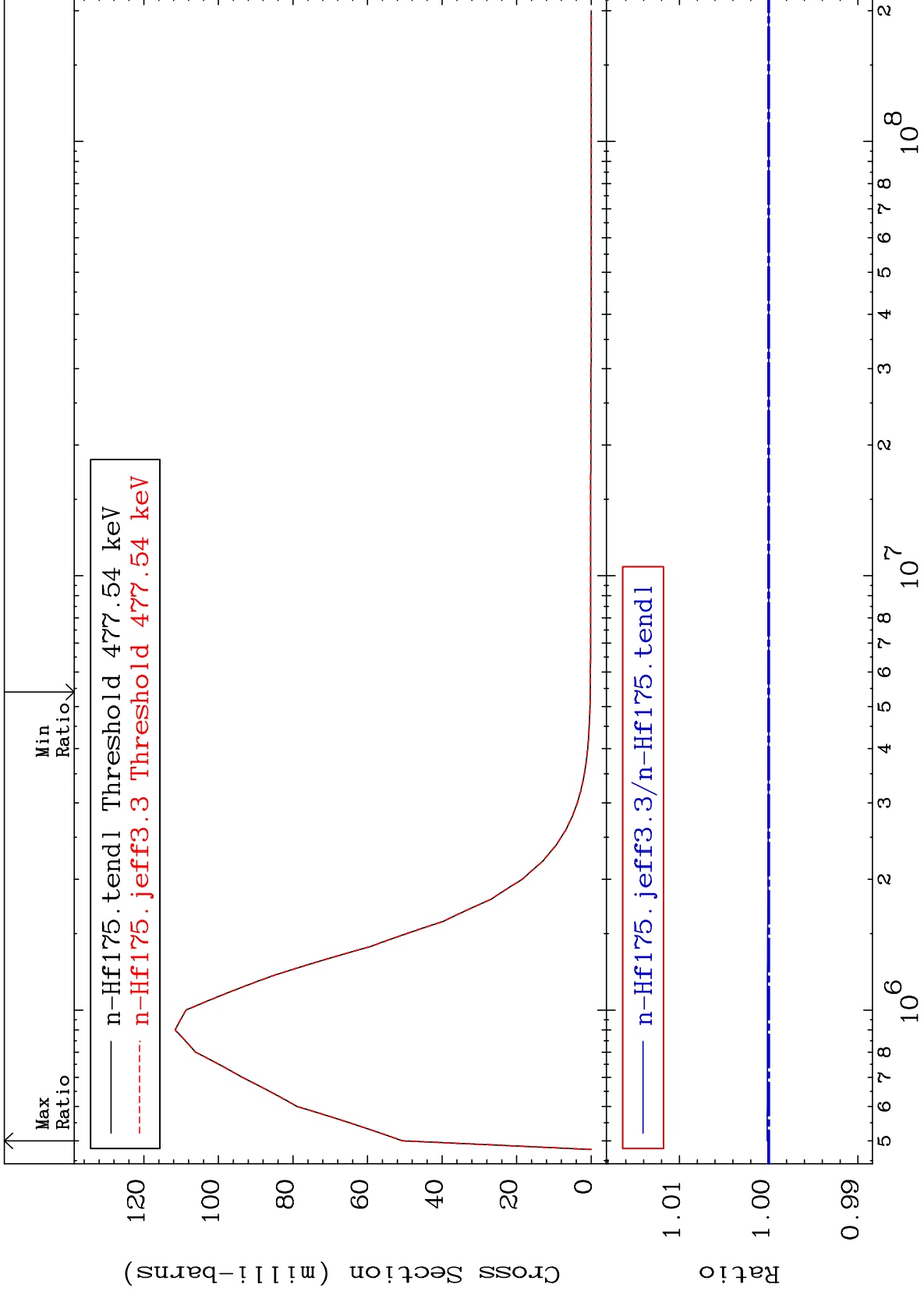
72-Hf-175
0.000 To 0.034 %



MAT 7228

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

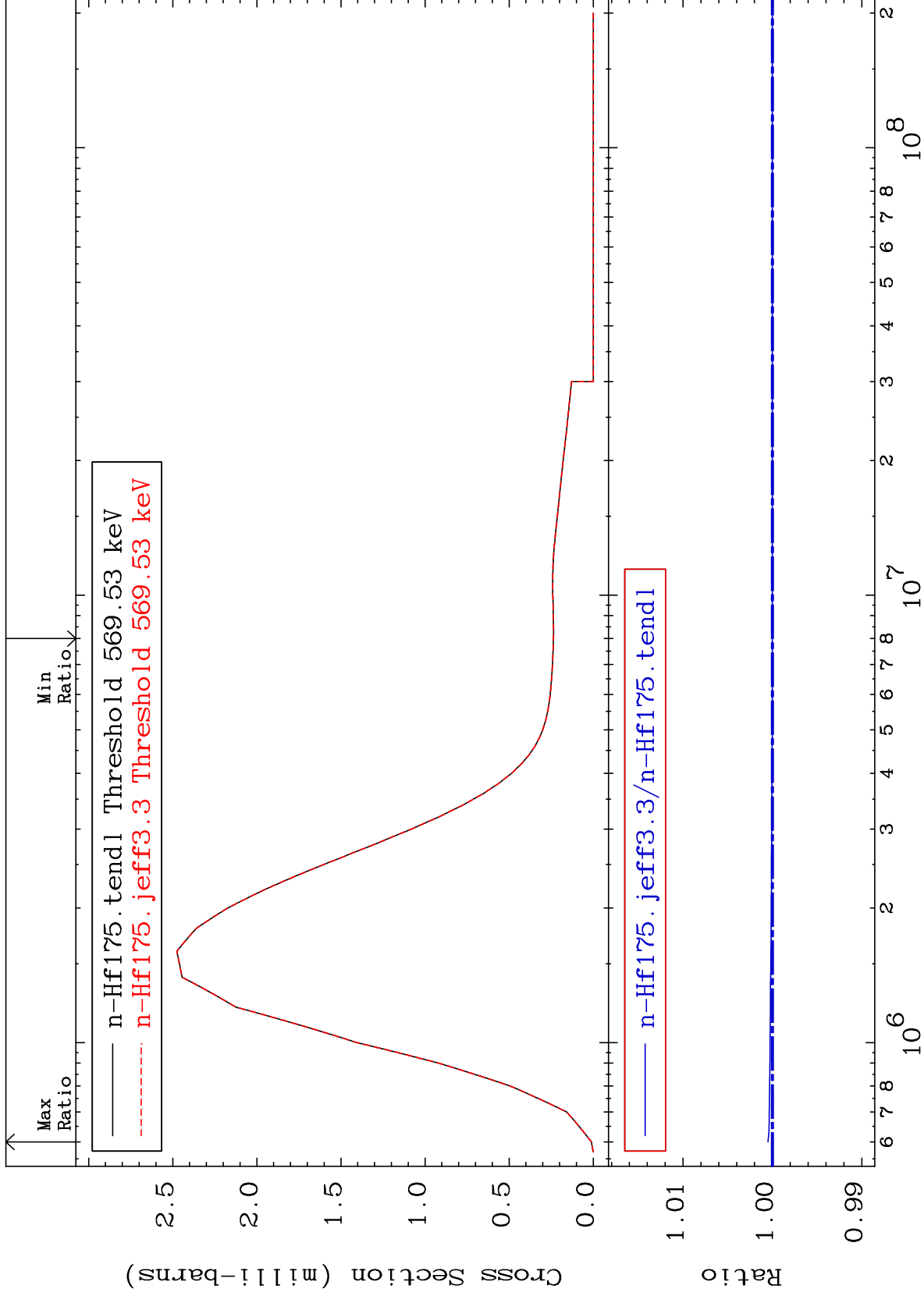
72-Hf-175
0.000 To 0.017 %



MAT 7228

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

72-Hf-175
0.000 To 0.050 %



35

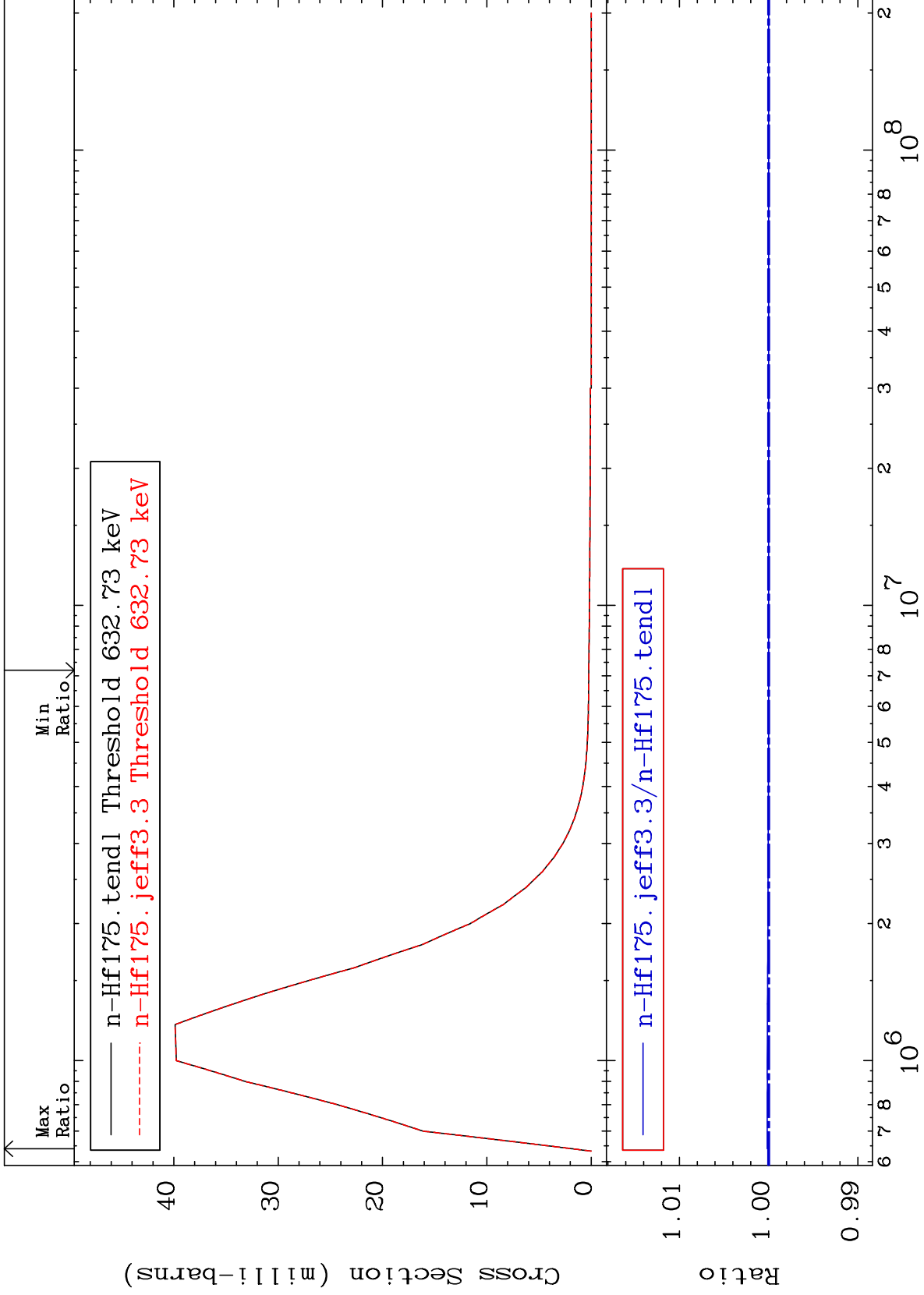
Incident Energy (eV)

72-Hf-175

MAT 7228

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

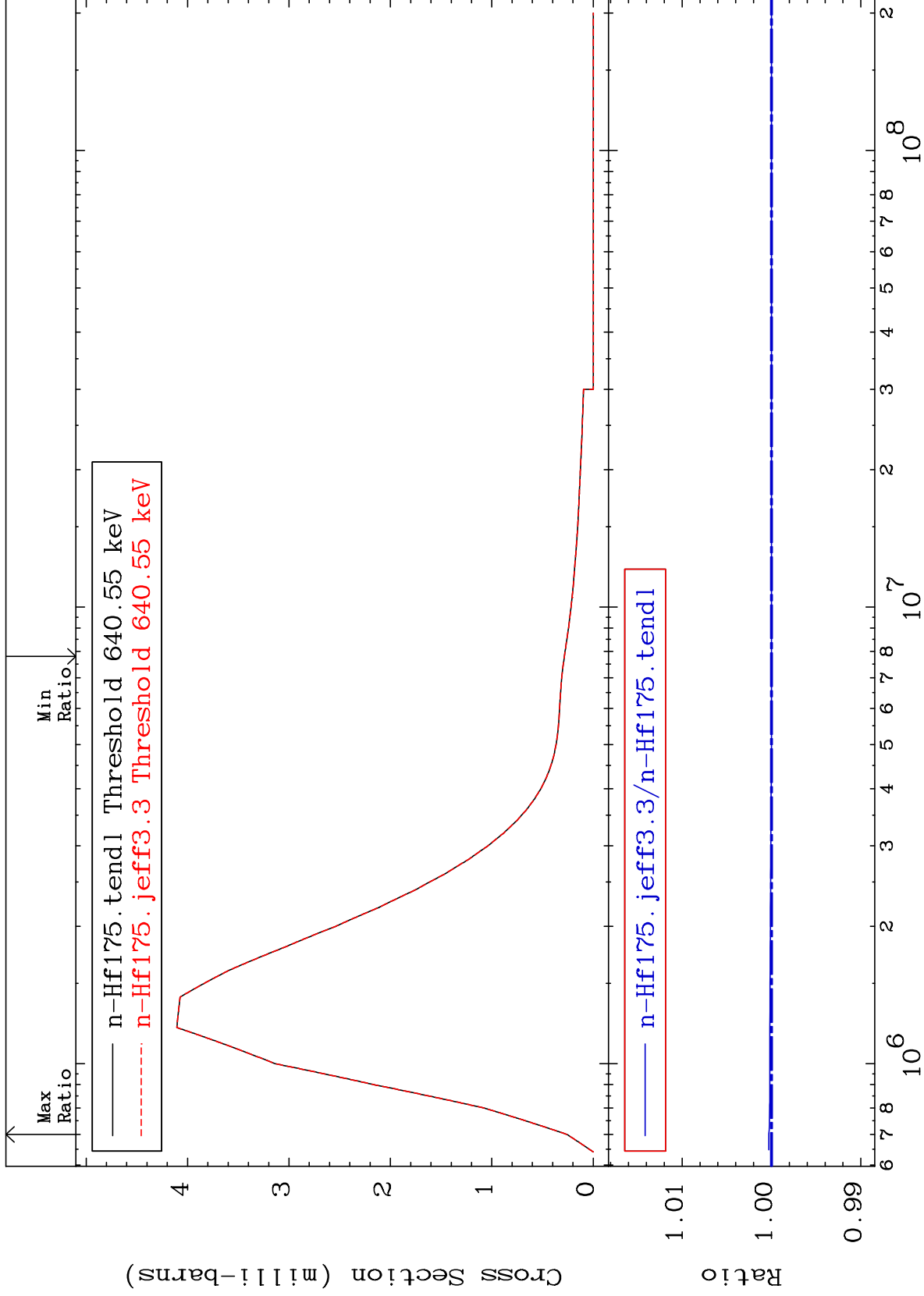
72-Hf-175
0.000 To 0.016 %



MAT 7228

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

72-Hf-175
0.000 To 0.030 %



37

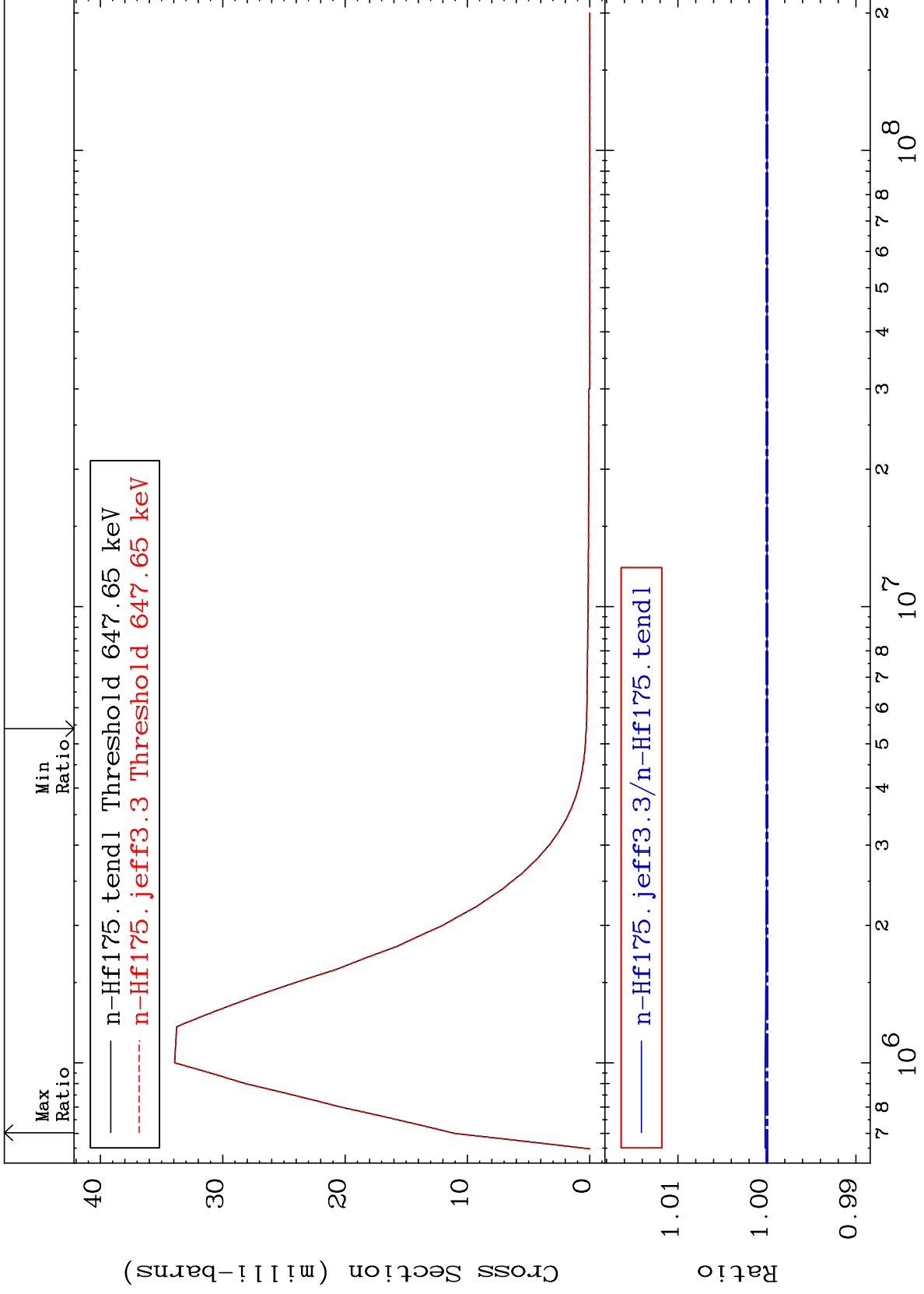
Incident Energy (eV)

72-Hf-175

MAT 7228

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

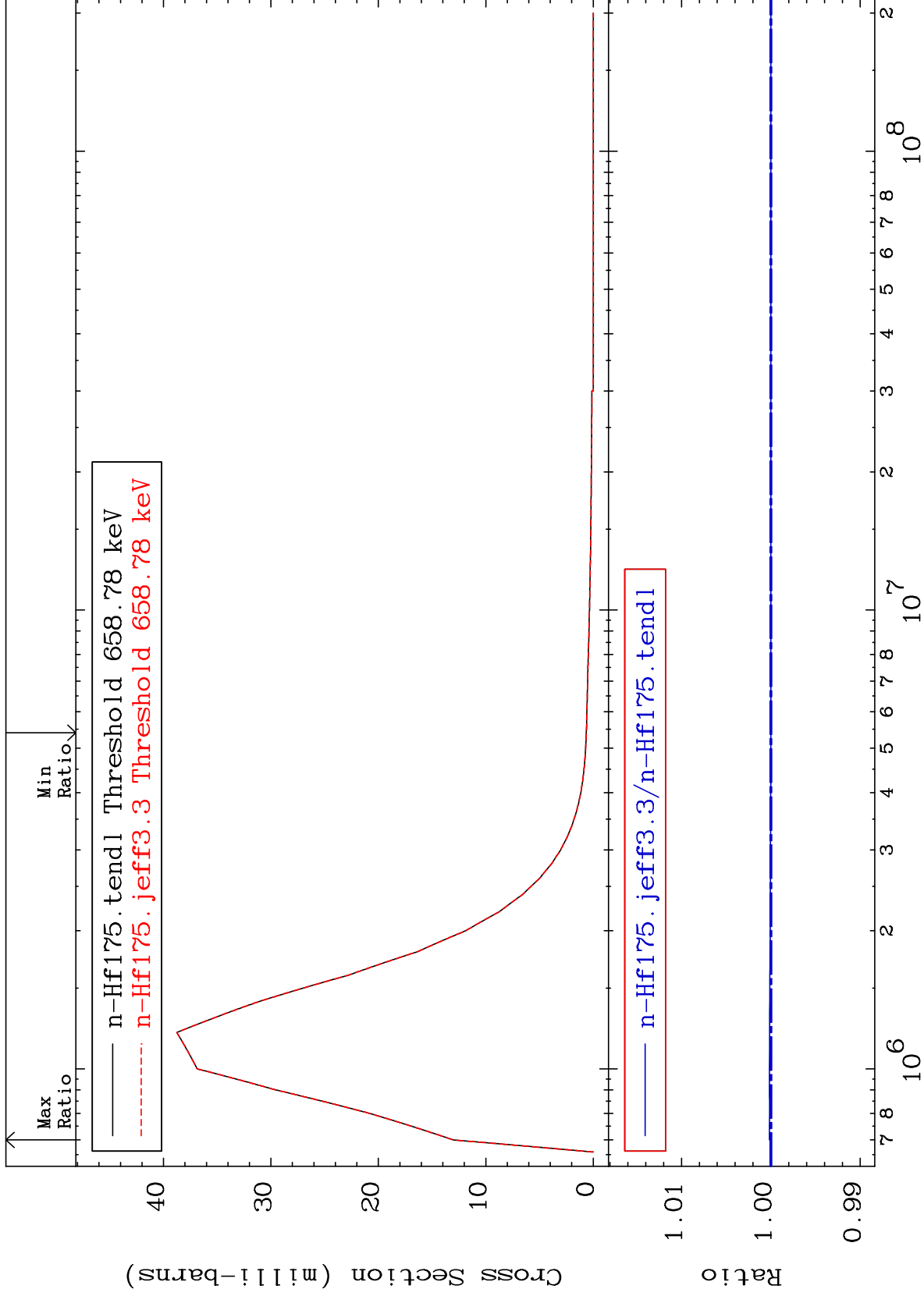
72-Hf-175
0.000 To 0.022 %



MAT 7228

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

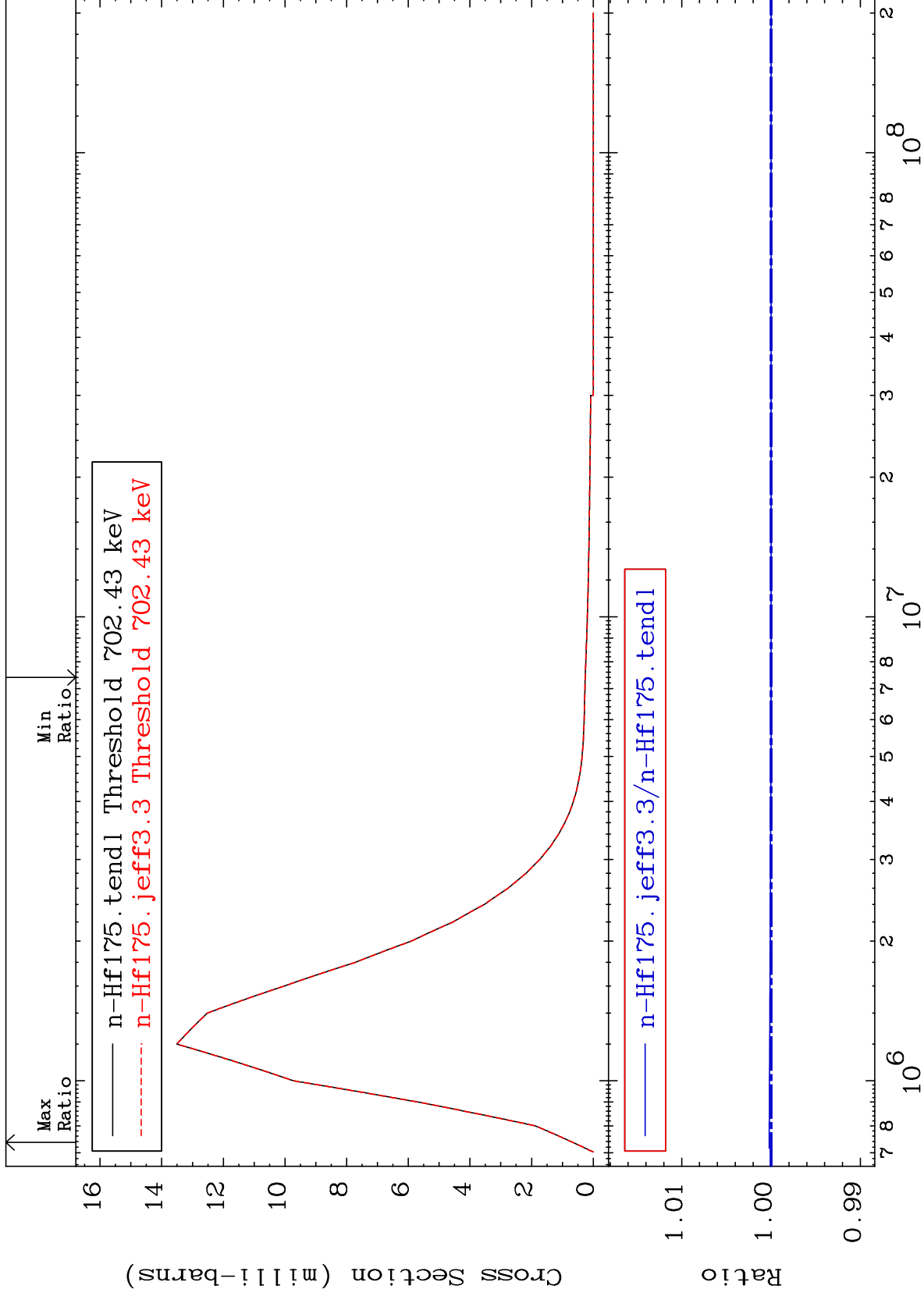
72-Hf-175
0.000 To 0.016 %



MAT 7228

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

72-Hf-175
0.000 To 0.020 %



40

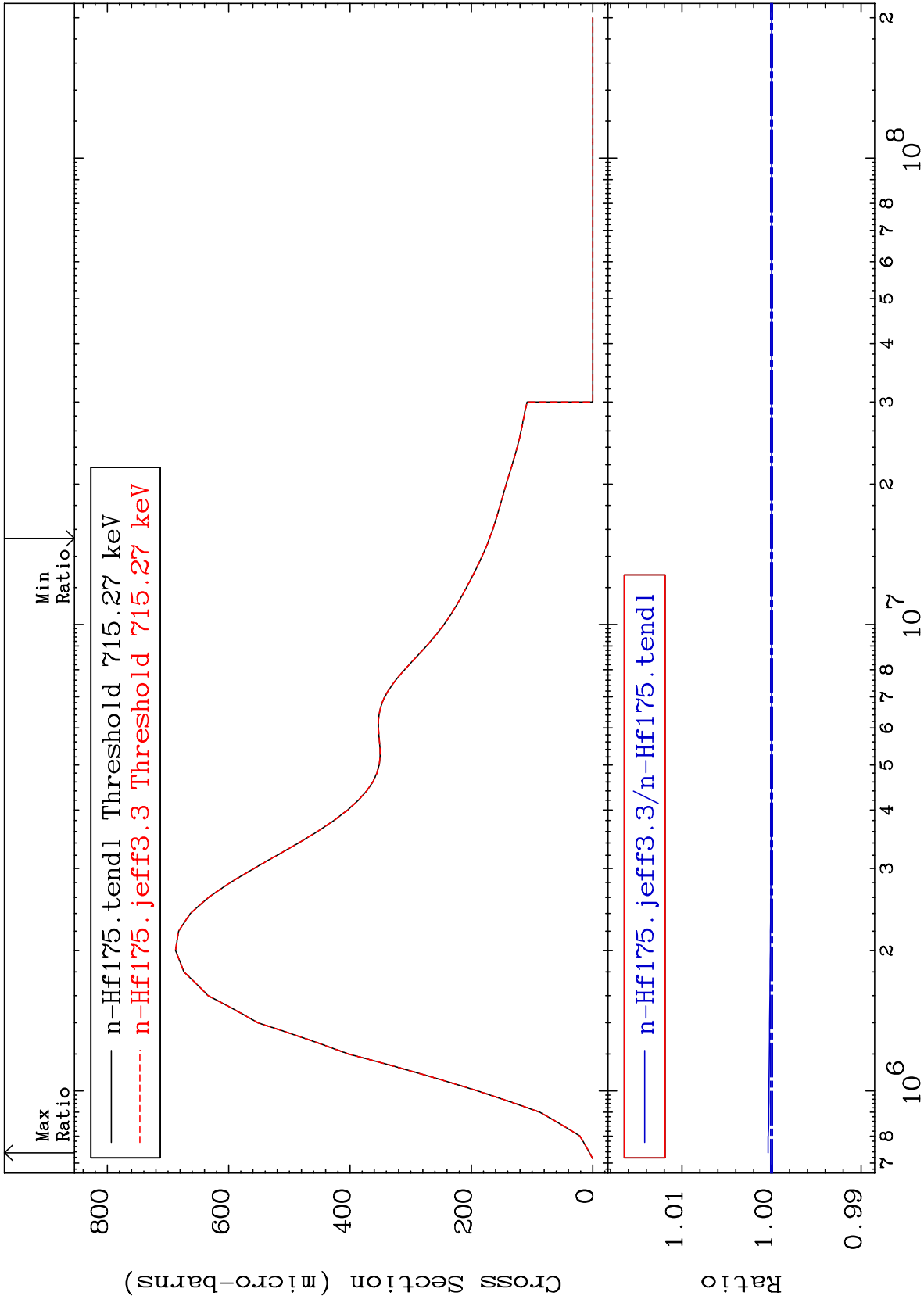
Incident Energy (eV)

72-Hf-175

MAT 7228

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

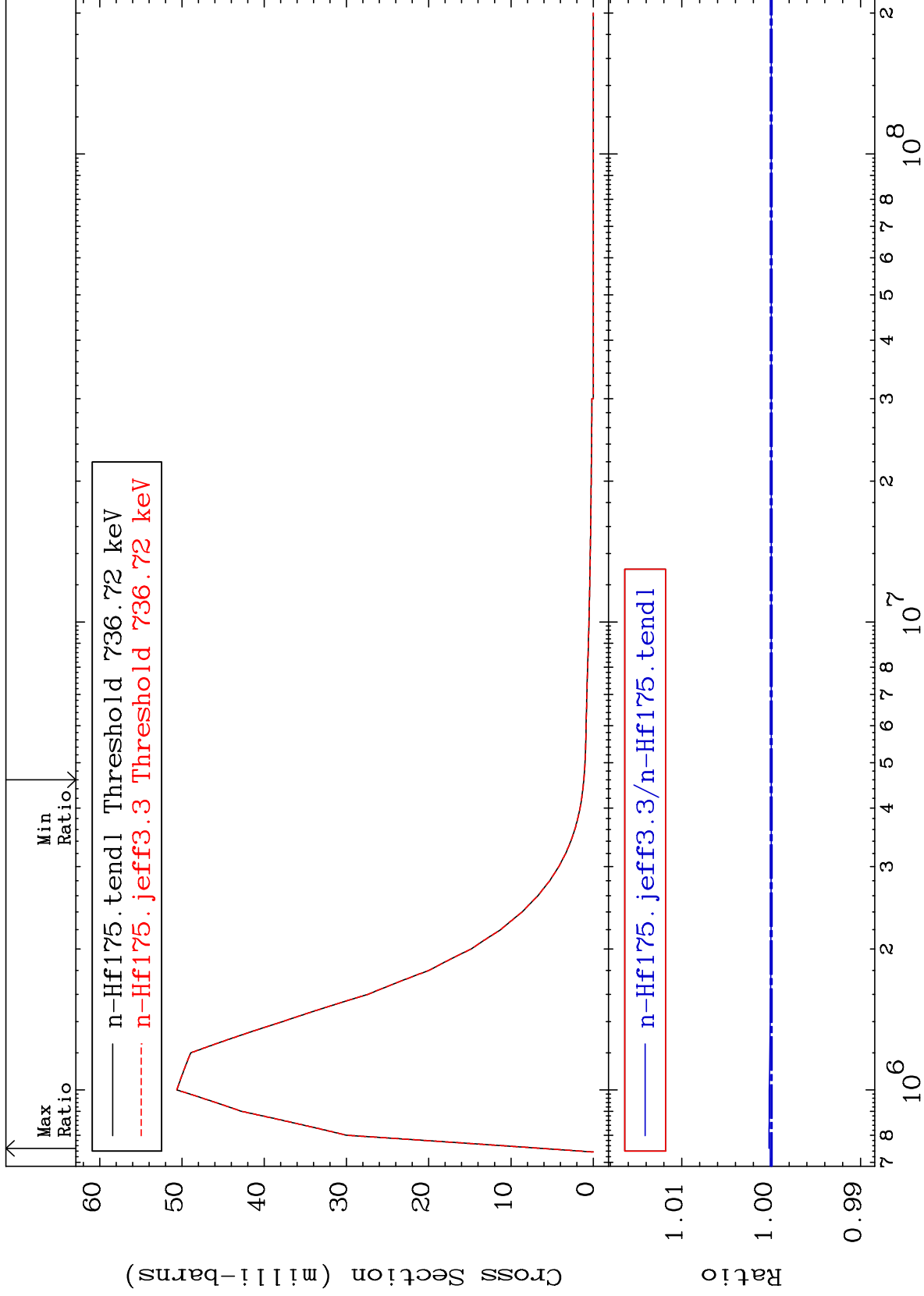
72-Hf-175
0.000 To 0.038 %



MAT 7228

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

72-Hf-175
0.000 To 0.024 %



42

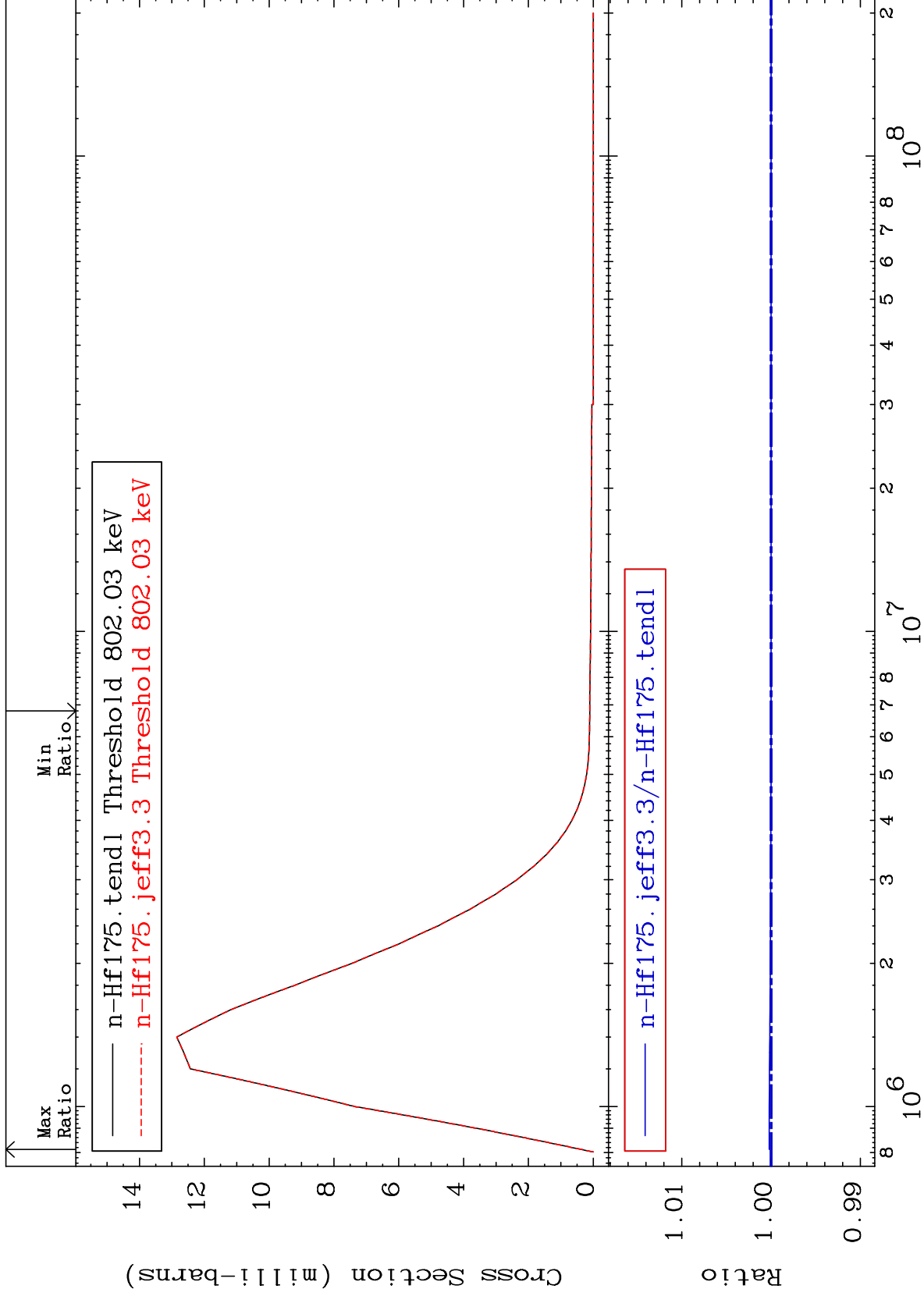
Incident Energy (eV)

72-Hf-175

MAT 7228

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

72-Hf-175
0.000 To 0.022 %



43

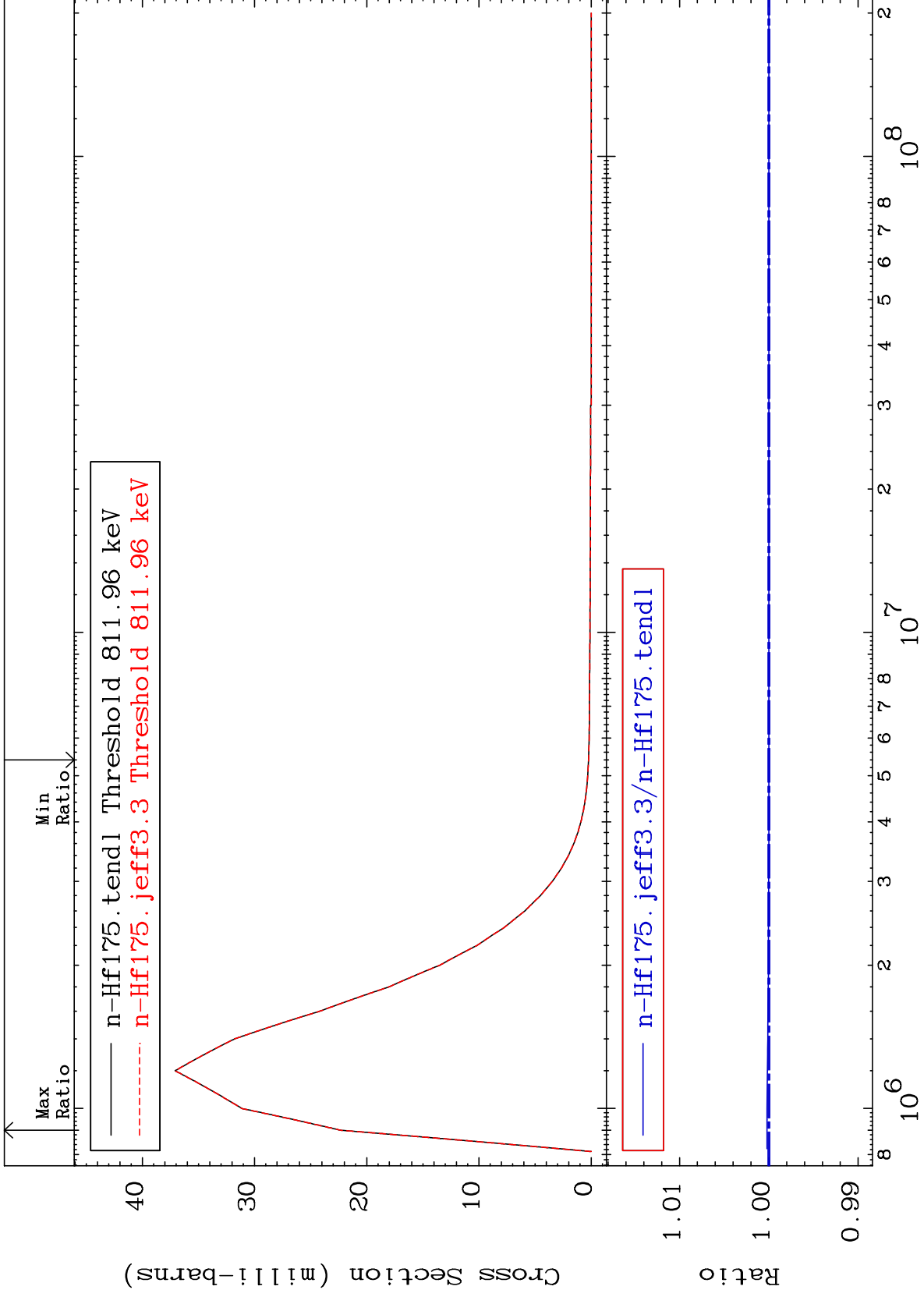
Incident Energy (eV)

72-Hf-175

MAT 7228

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

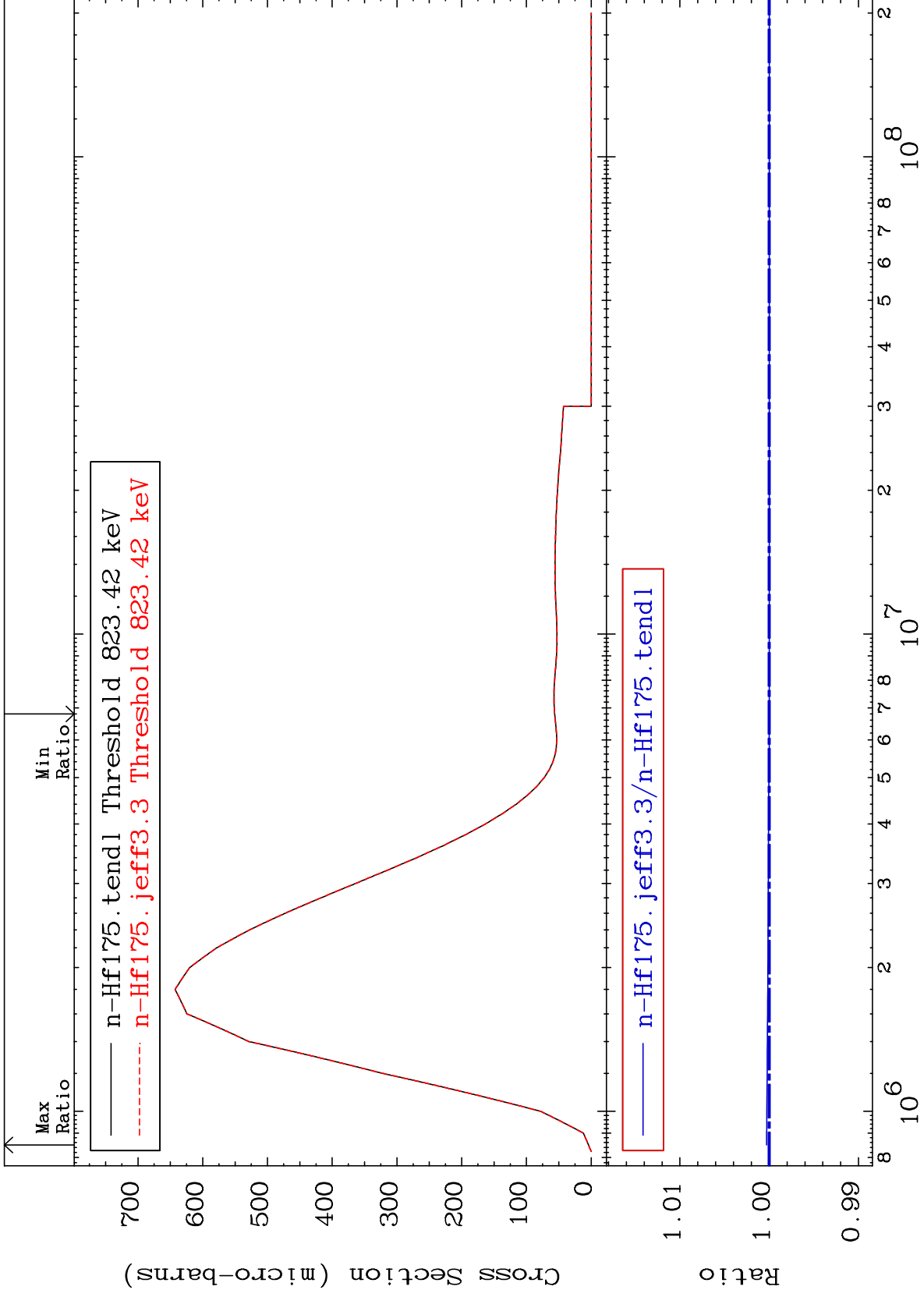
72-Hf-175
0.000 To 0.021 %



MAT 7228

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

72-Hf-175
0.000 To 0.029 %



45

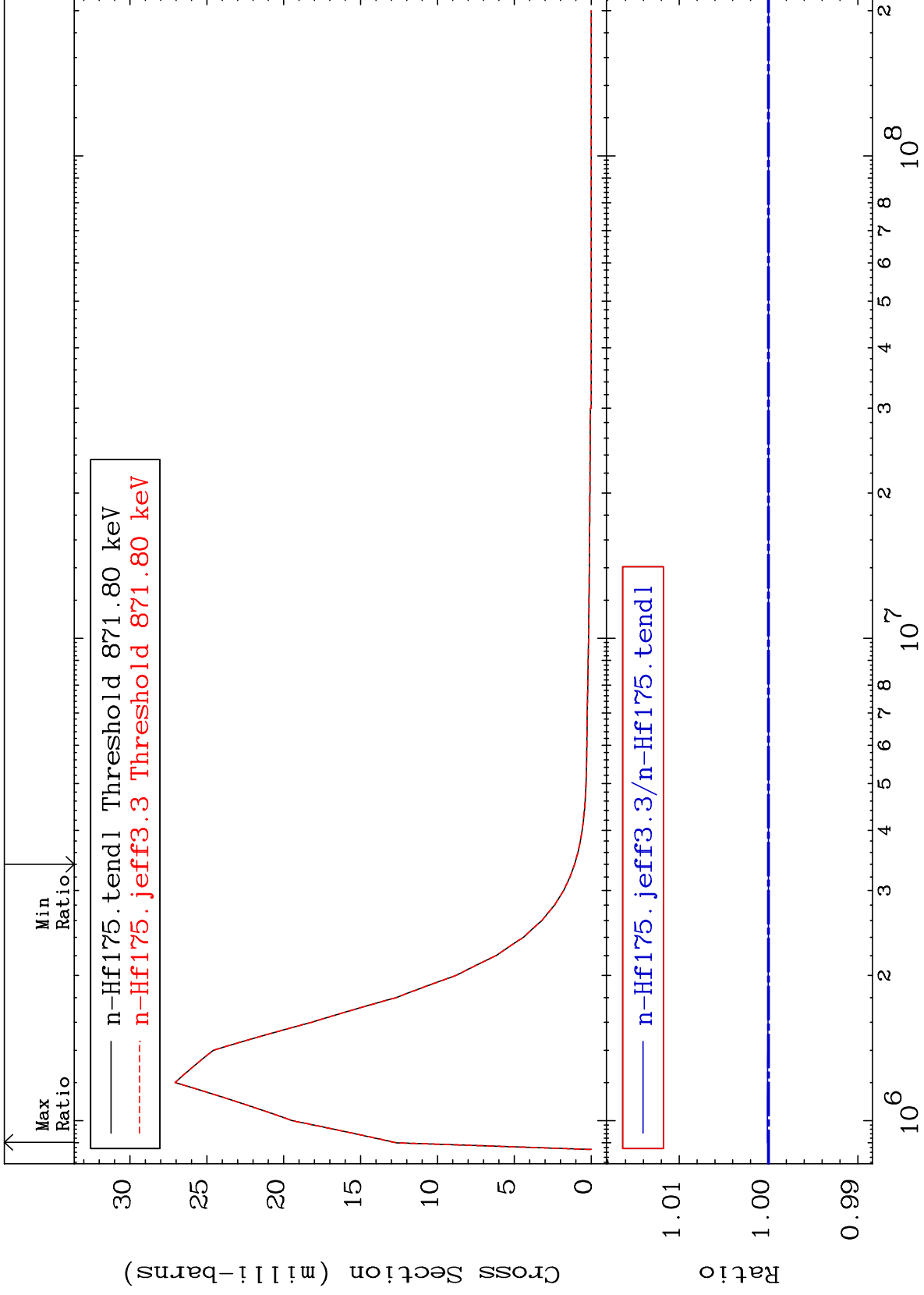
Incident Energy (eV)

72-Hf-175

MAT 7228

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

72-Hf-175
0.000 To 0.013 %



46

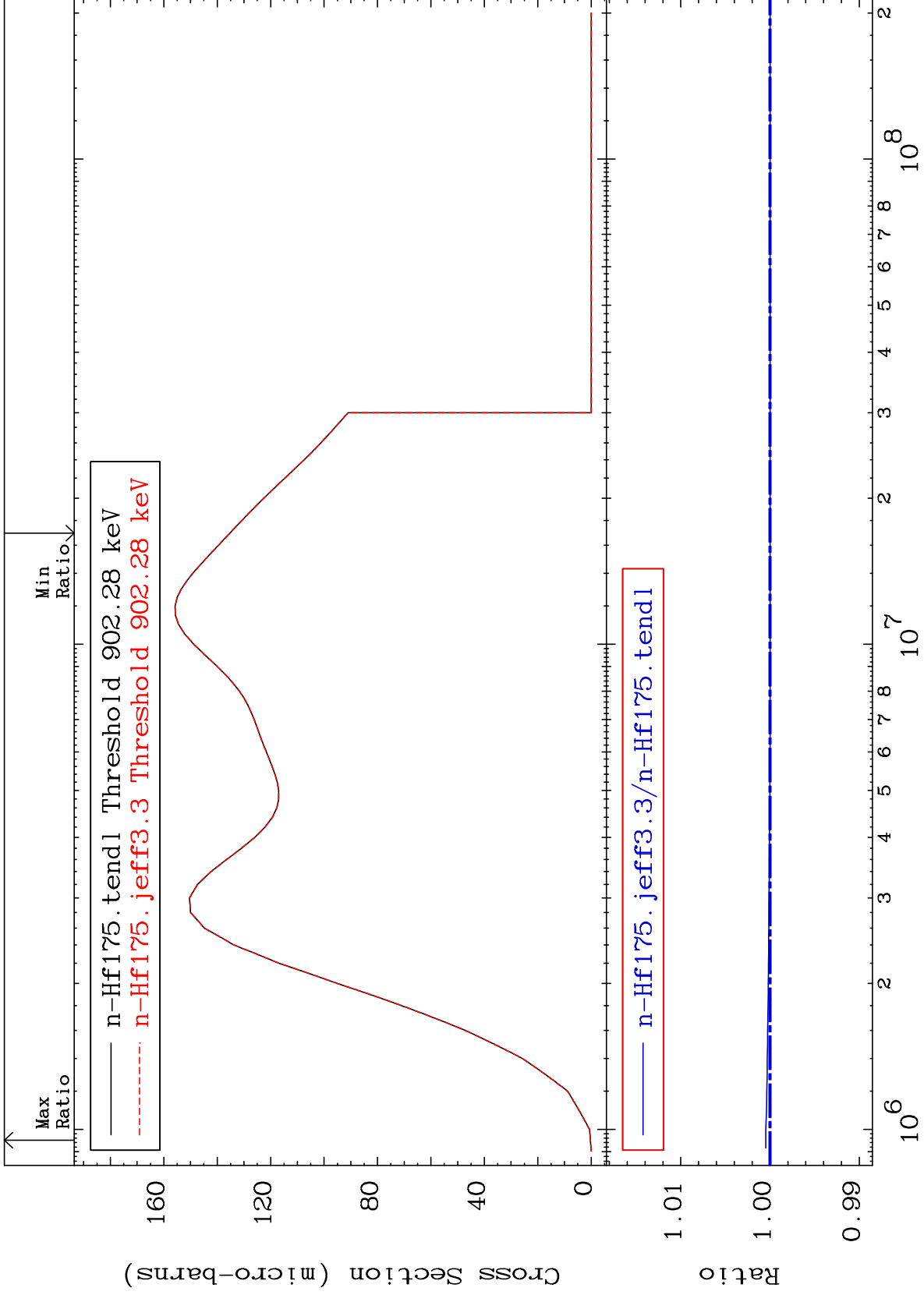
Incident Energy (eV)

72-Hf-175

MAT 7228

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

72-Hf-175
0.000 To 0.047 %



47

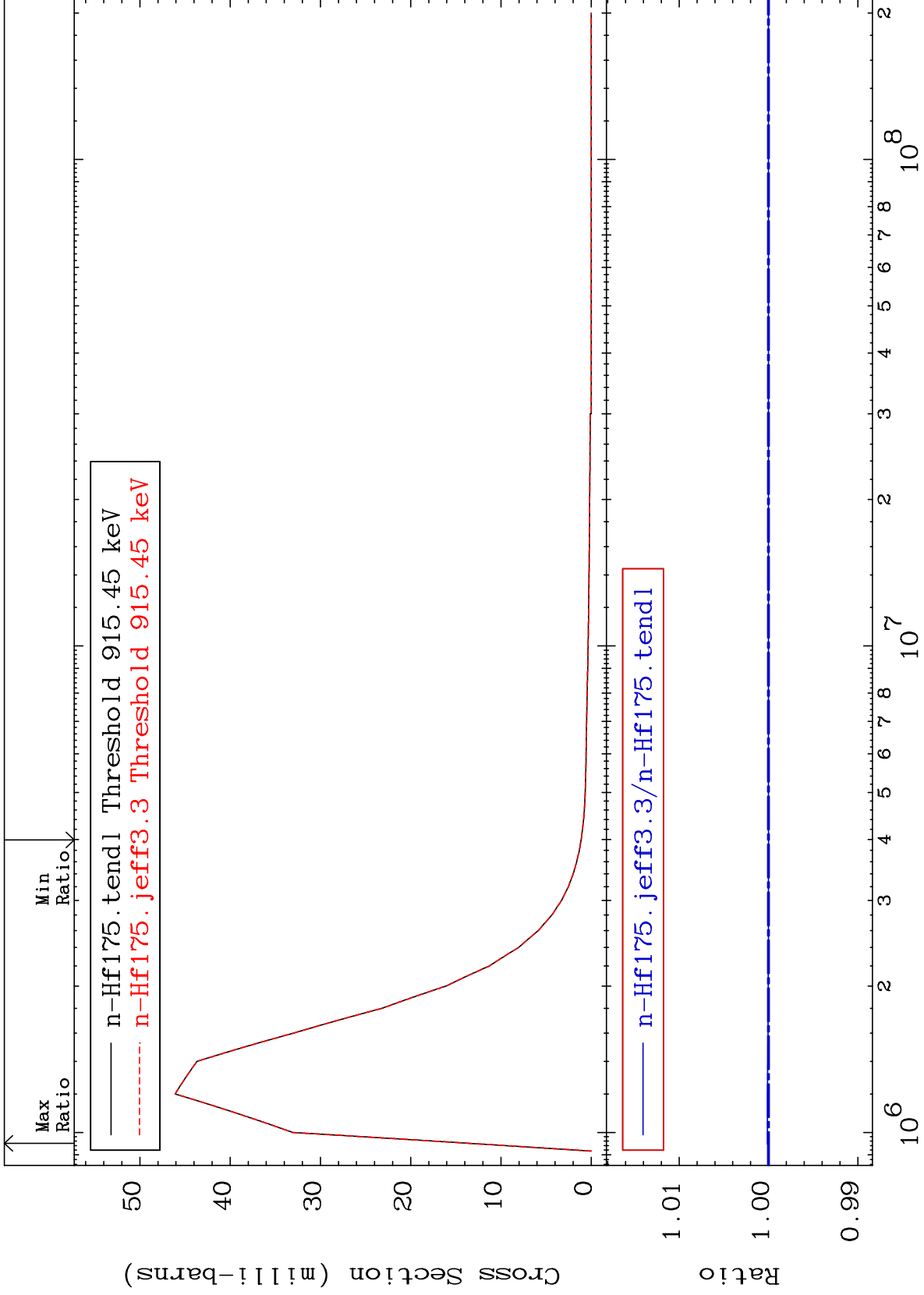
Incident Energy (eV)

72-Hf-175

MAT 7228

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

72-Hf-175
0.000 To 0.013 %



48

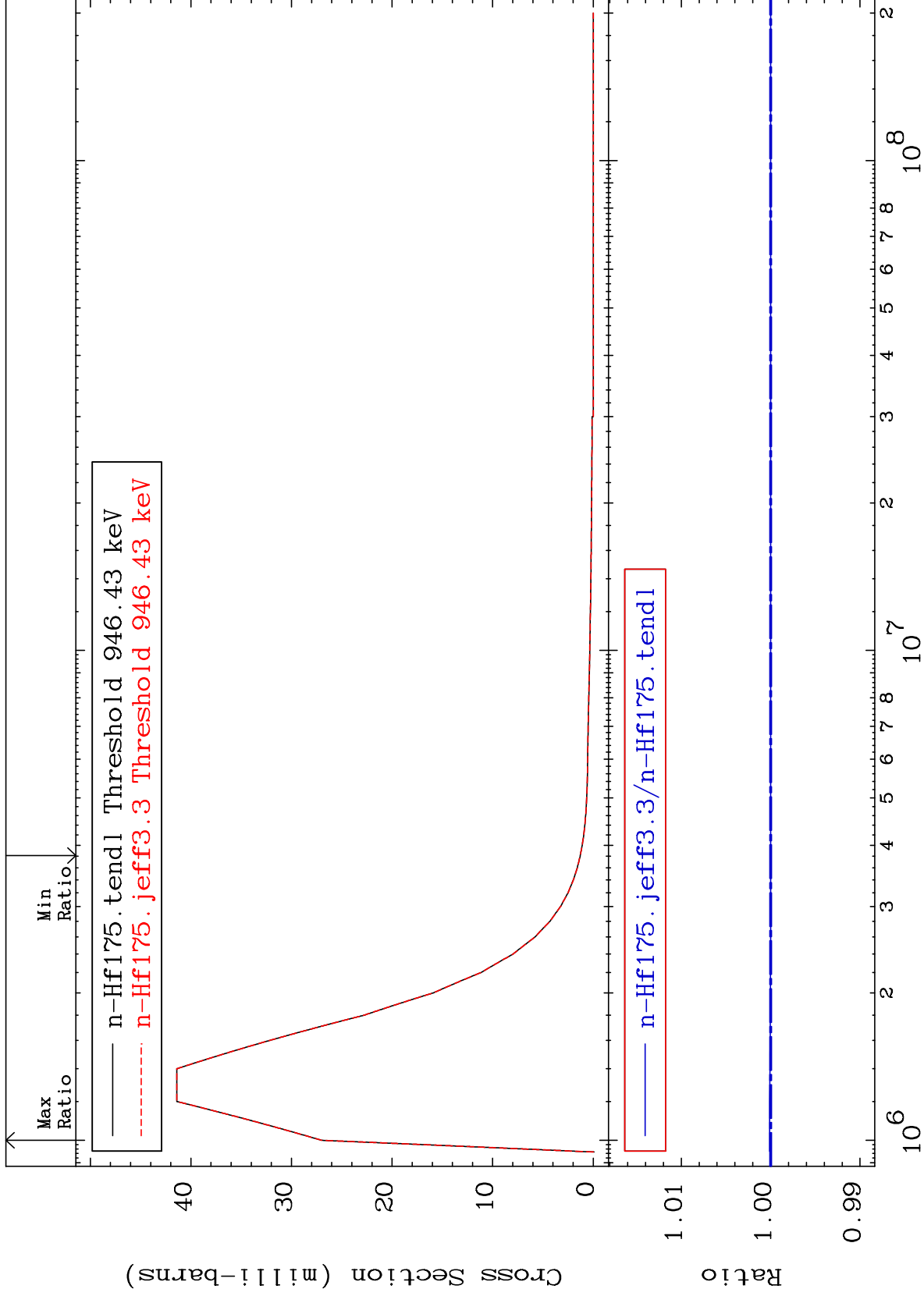
Incident Energy (eV)

72-Hf-175

MAT 7228

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

72-Hf-175
0.000 To 0.012 %



49

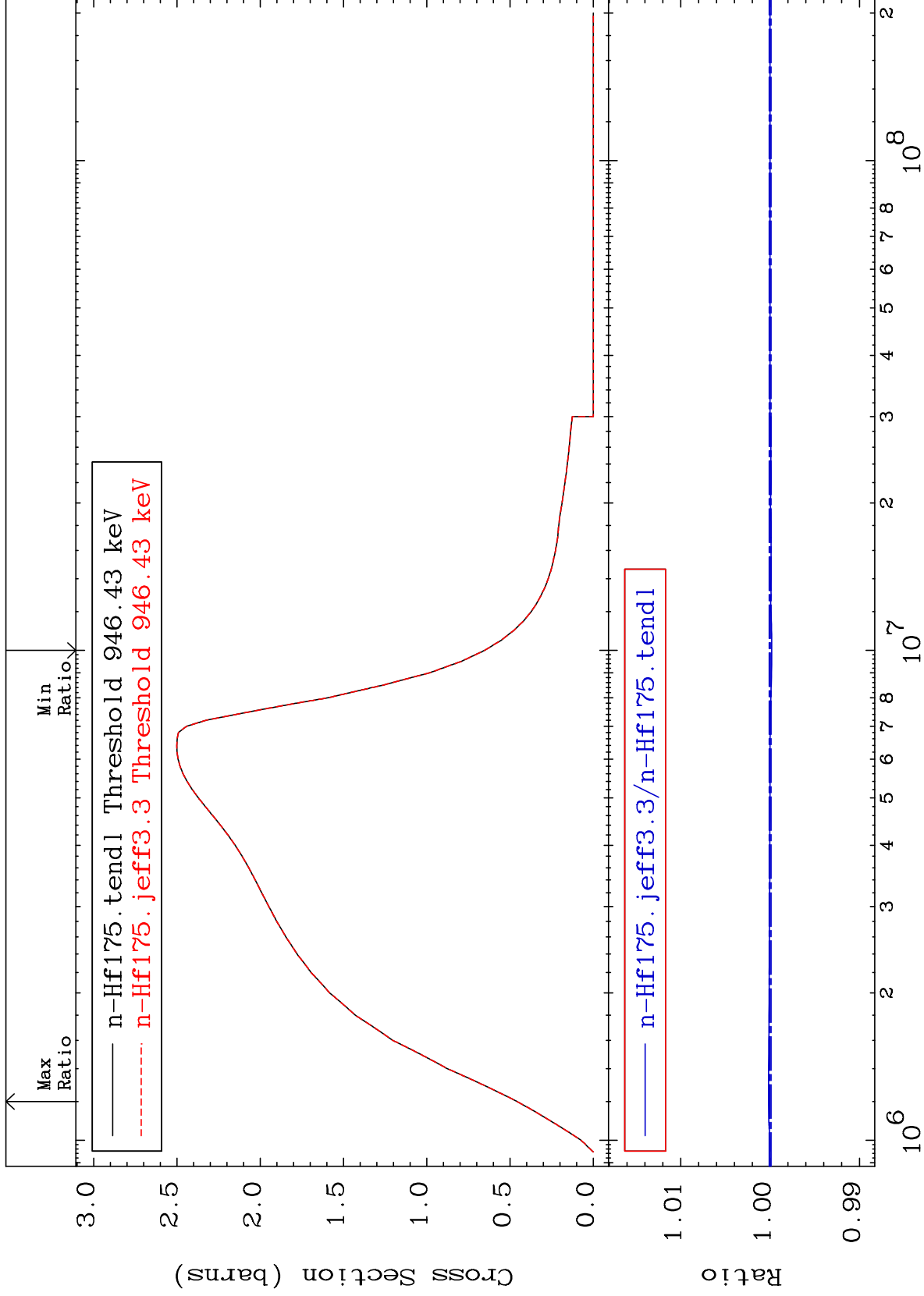
Incident Energy (eV)

72-Hf-175

MAT 7228

(n, n') Continuum
Cross Section

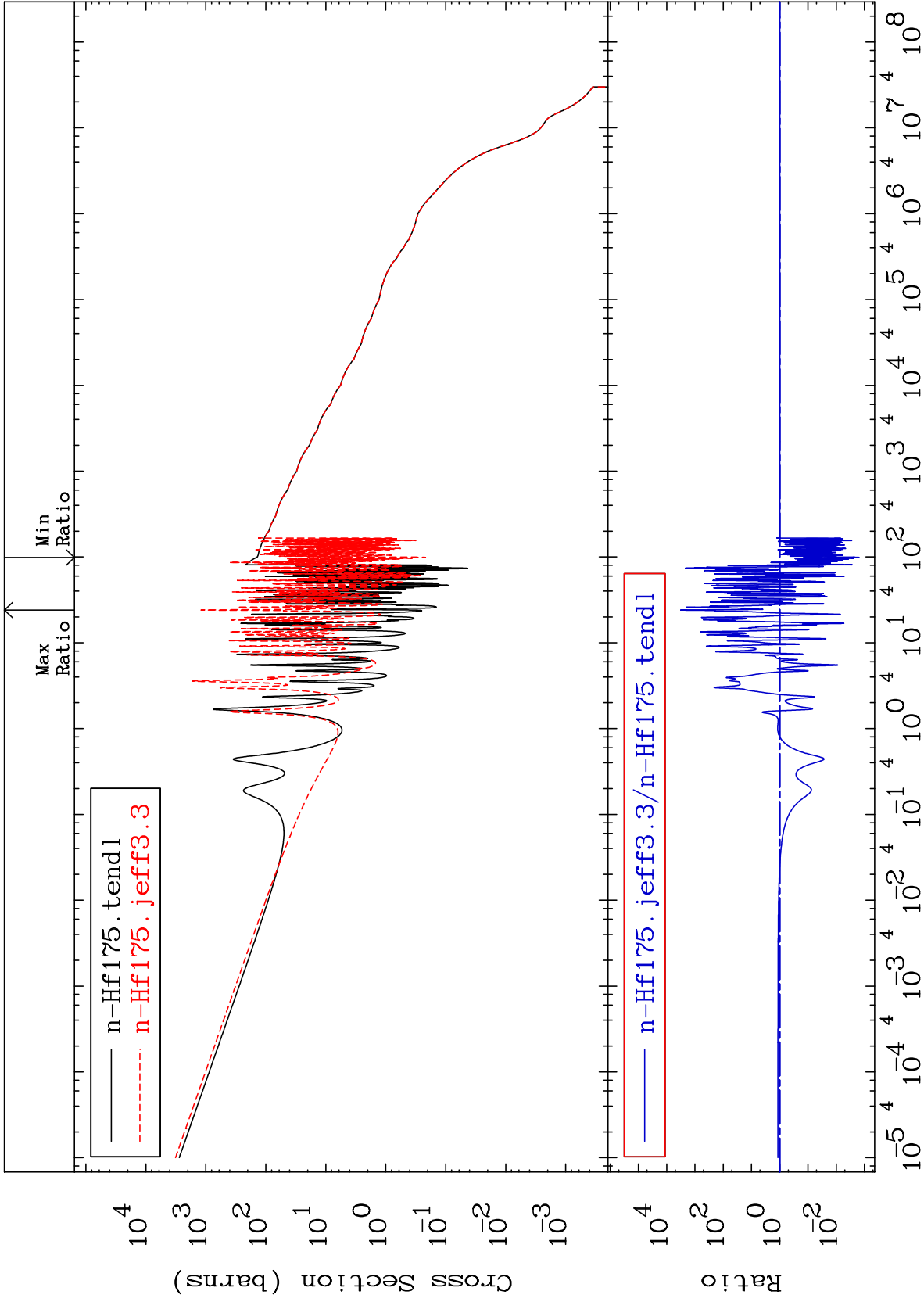
⁷²Hf-175
-0.018 To 0.018 %



Incident Energy (eV)

⁷²Hf-175

50



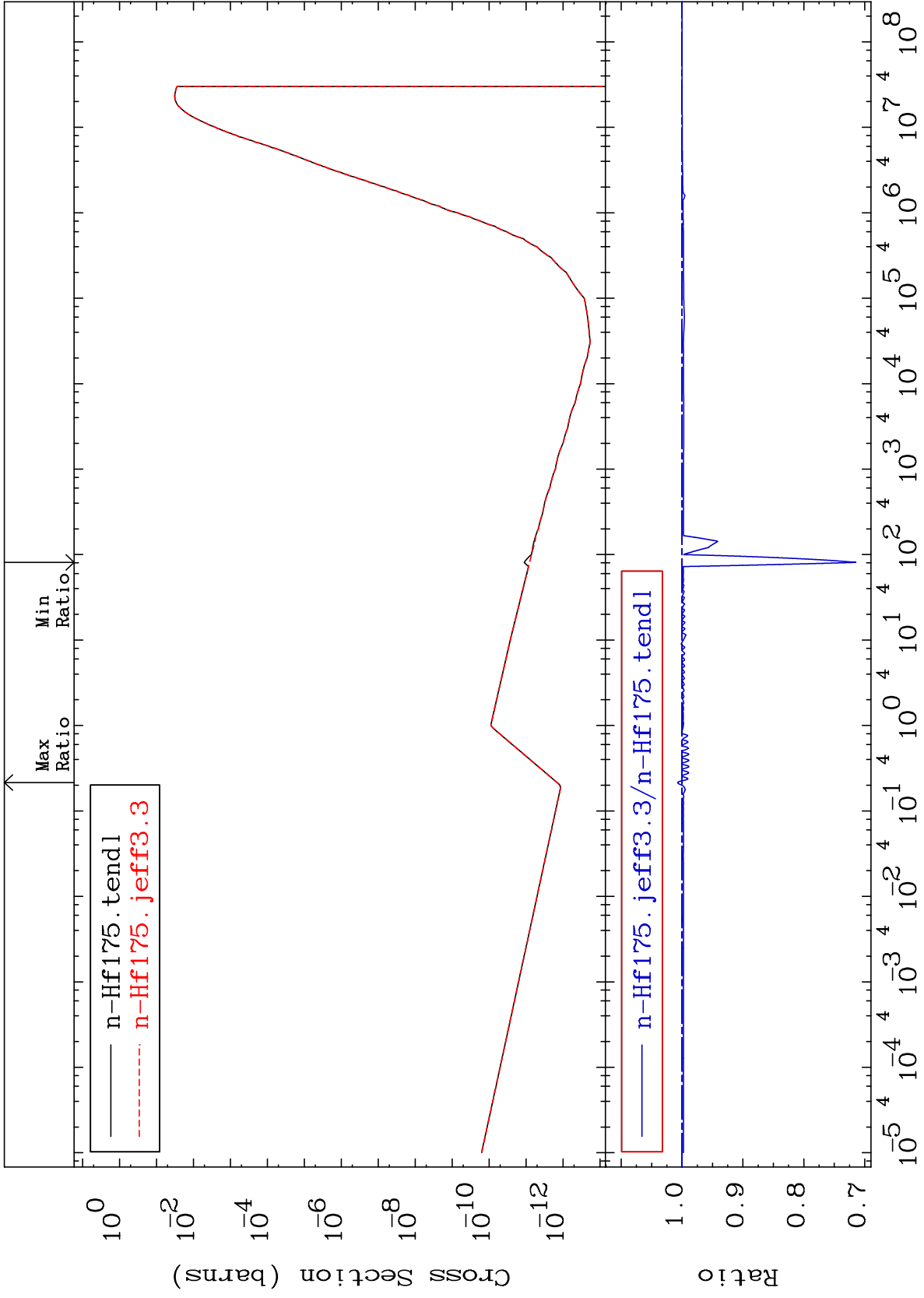
MAT 7228

(n,p)

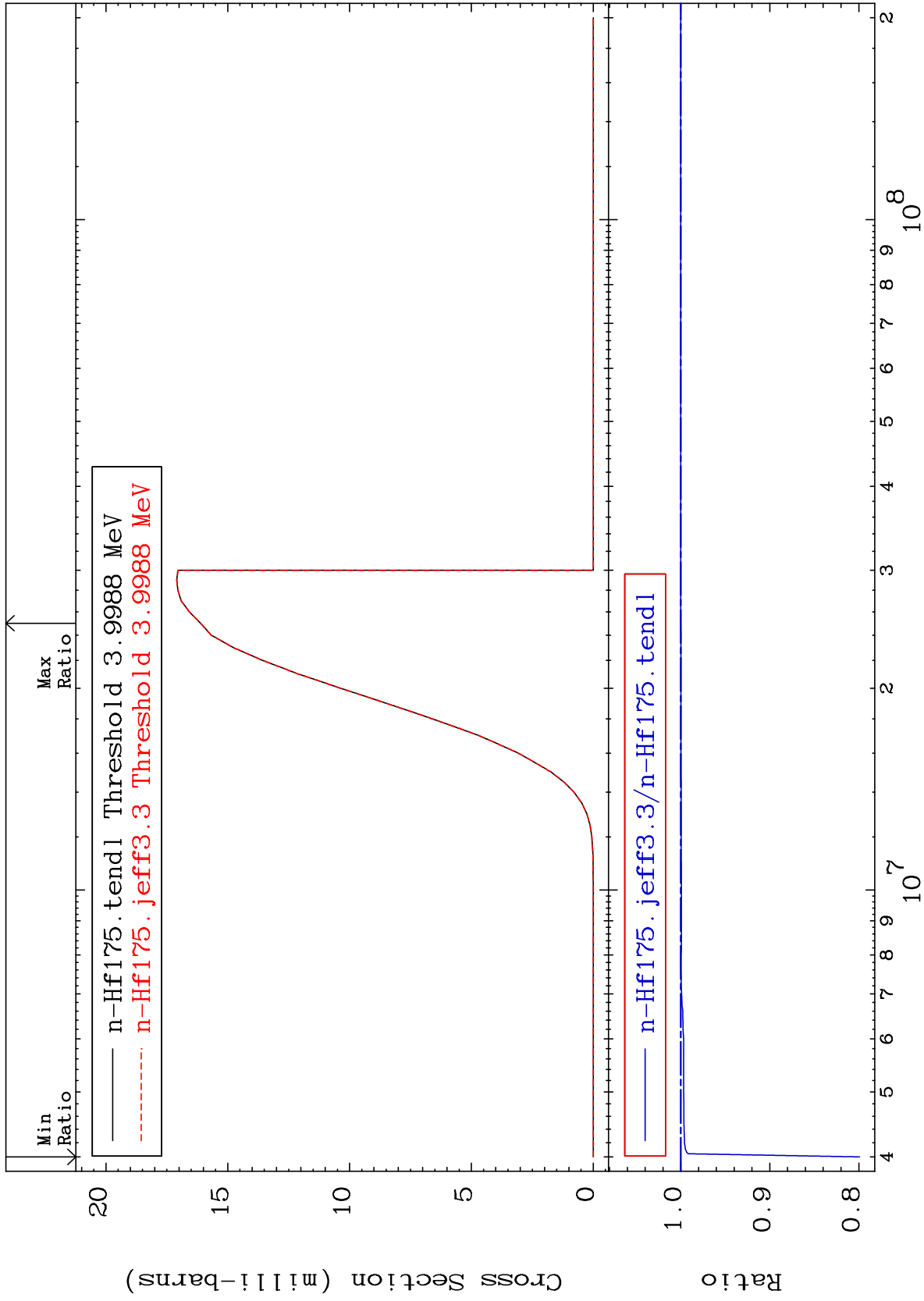
72-Hf-175

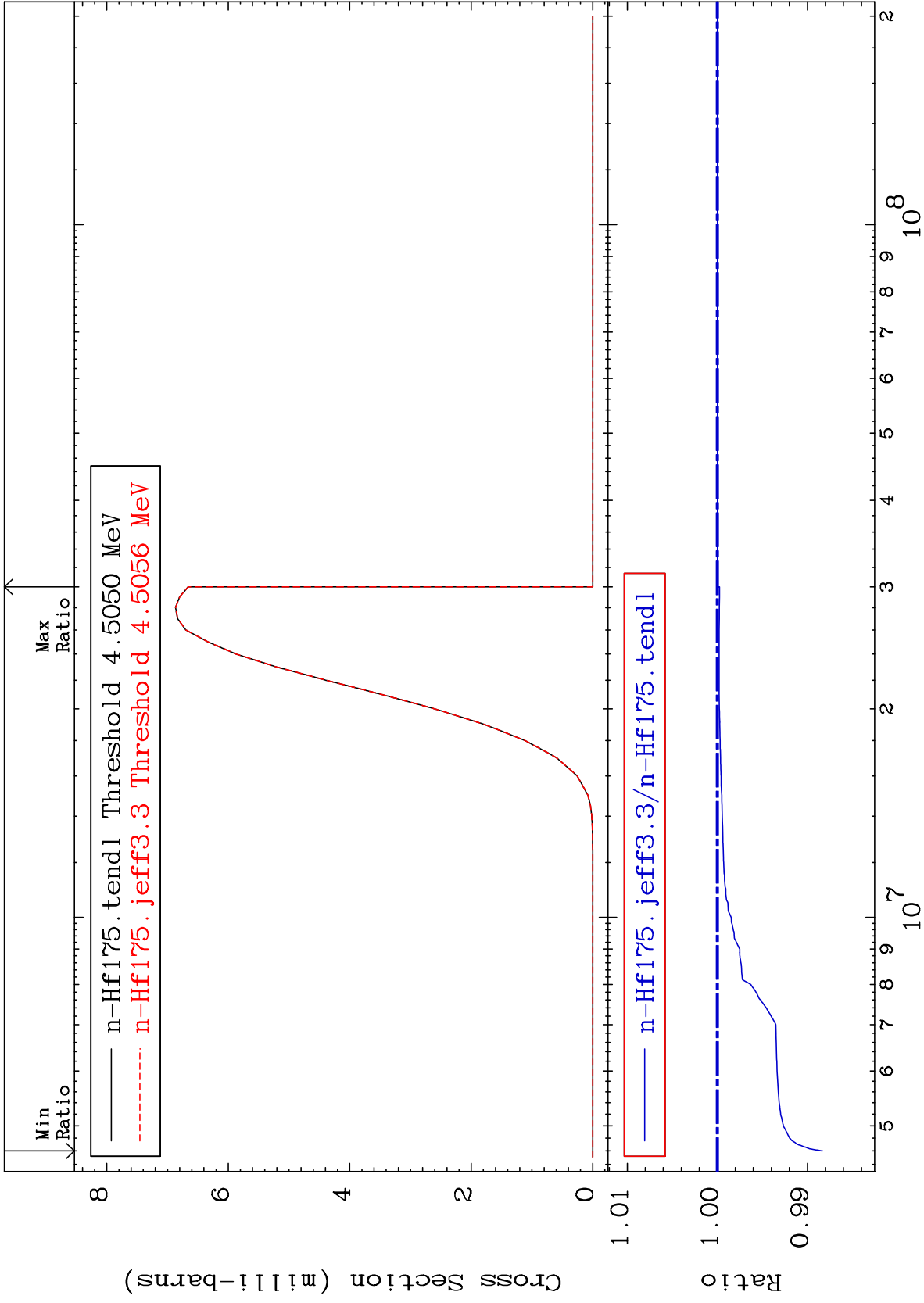
Cross Section

-28.53 To 0.750 %



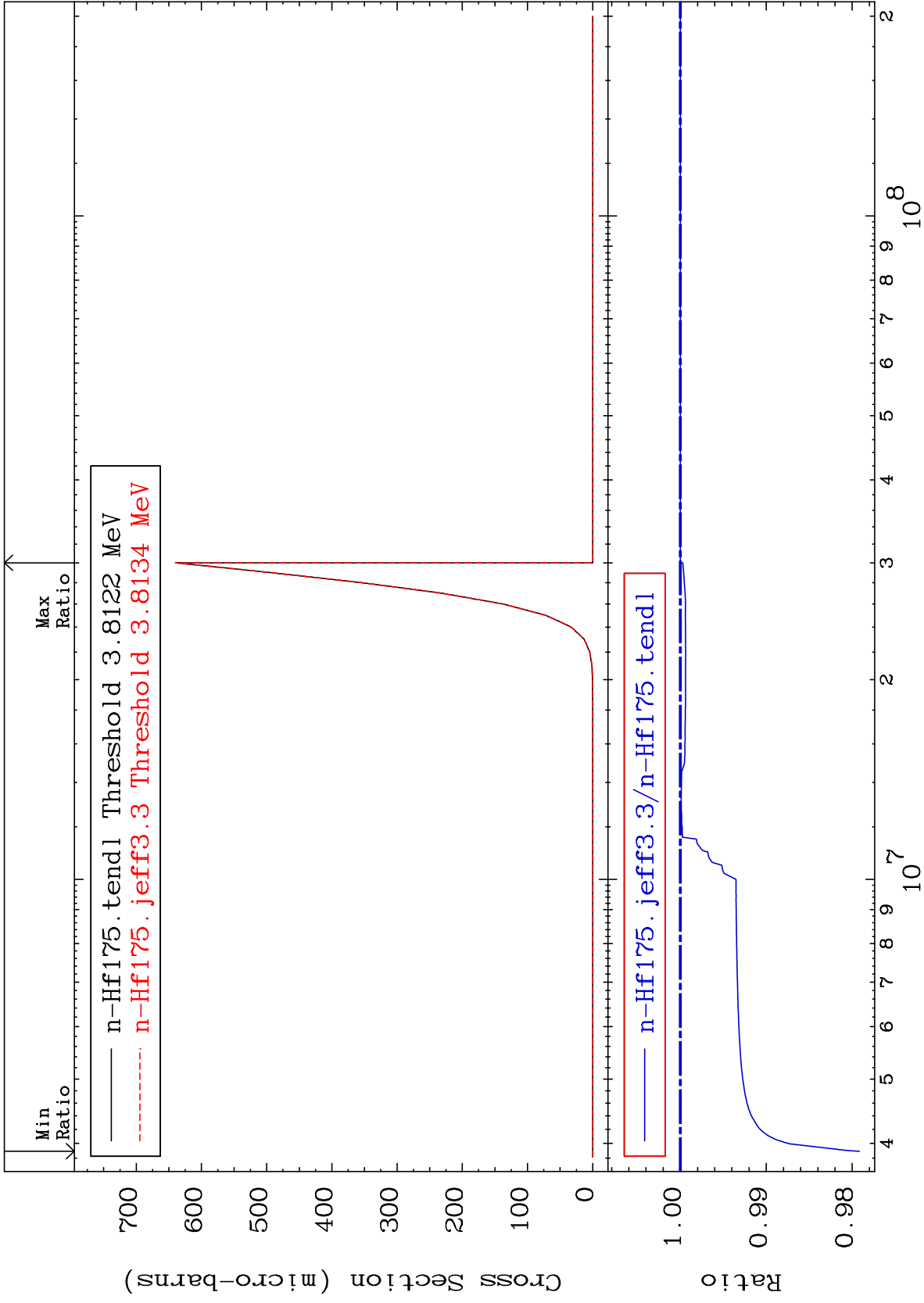
(n, d)
Cross Section
-20.08 To 0.000 %





Cross Section

-2.084 To 0.000 %



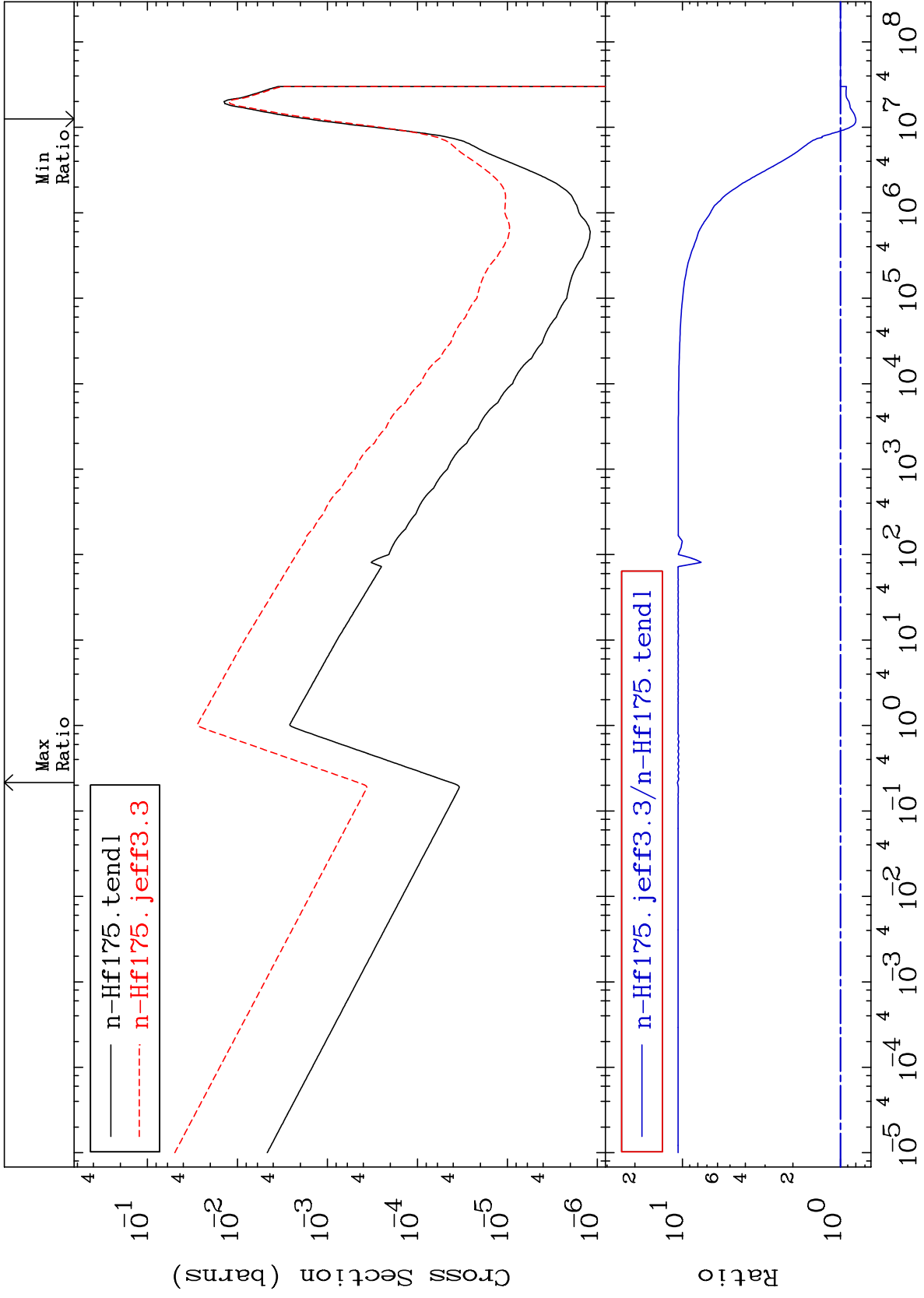
MAT 7228

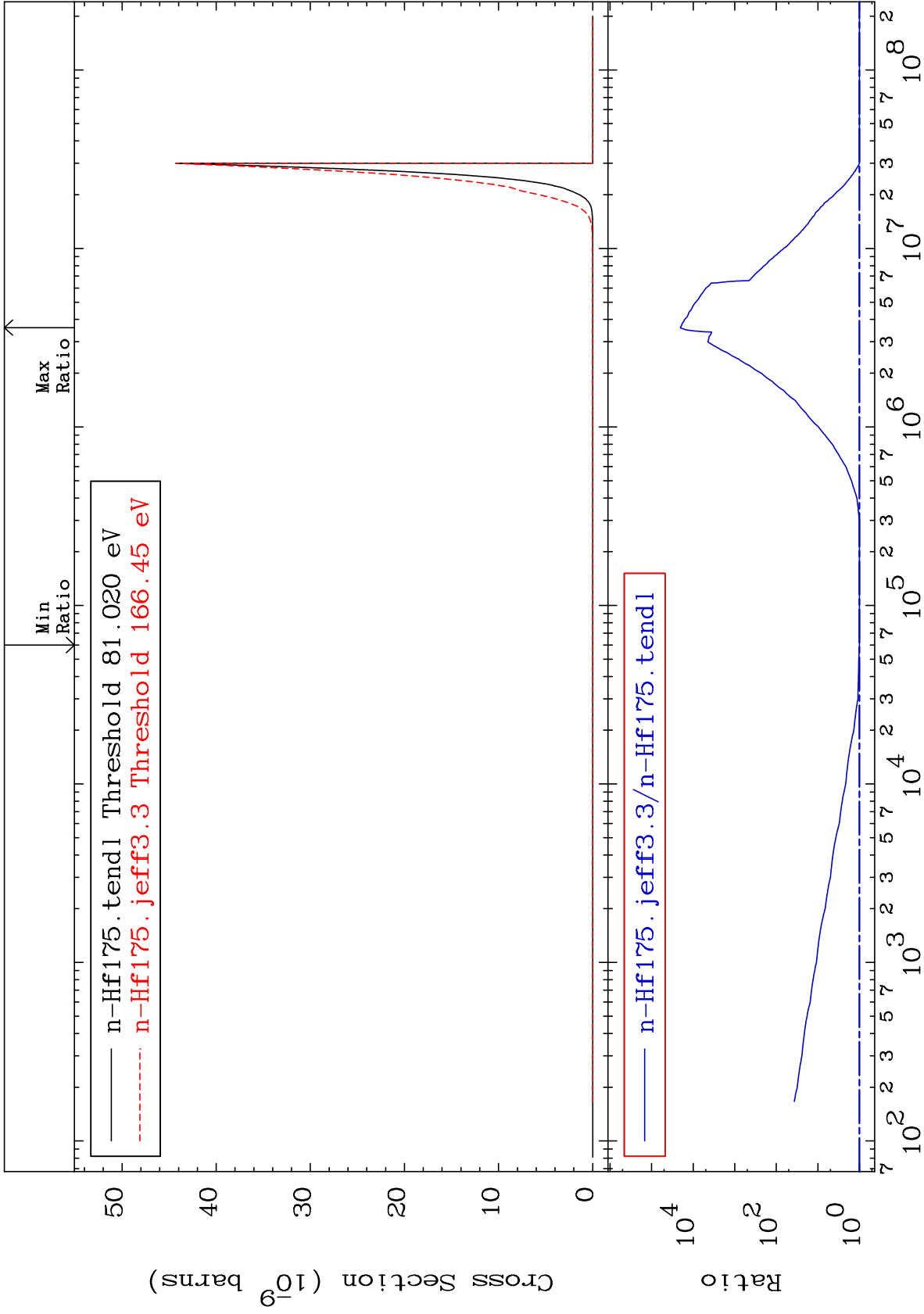
(n, α)

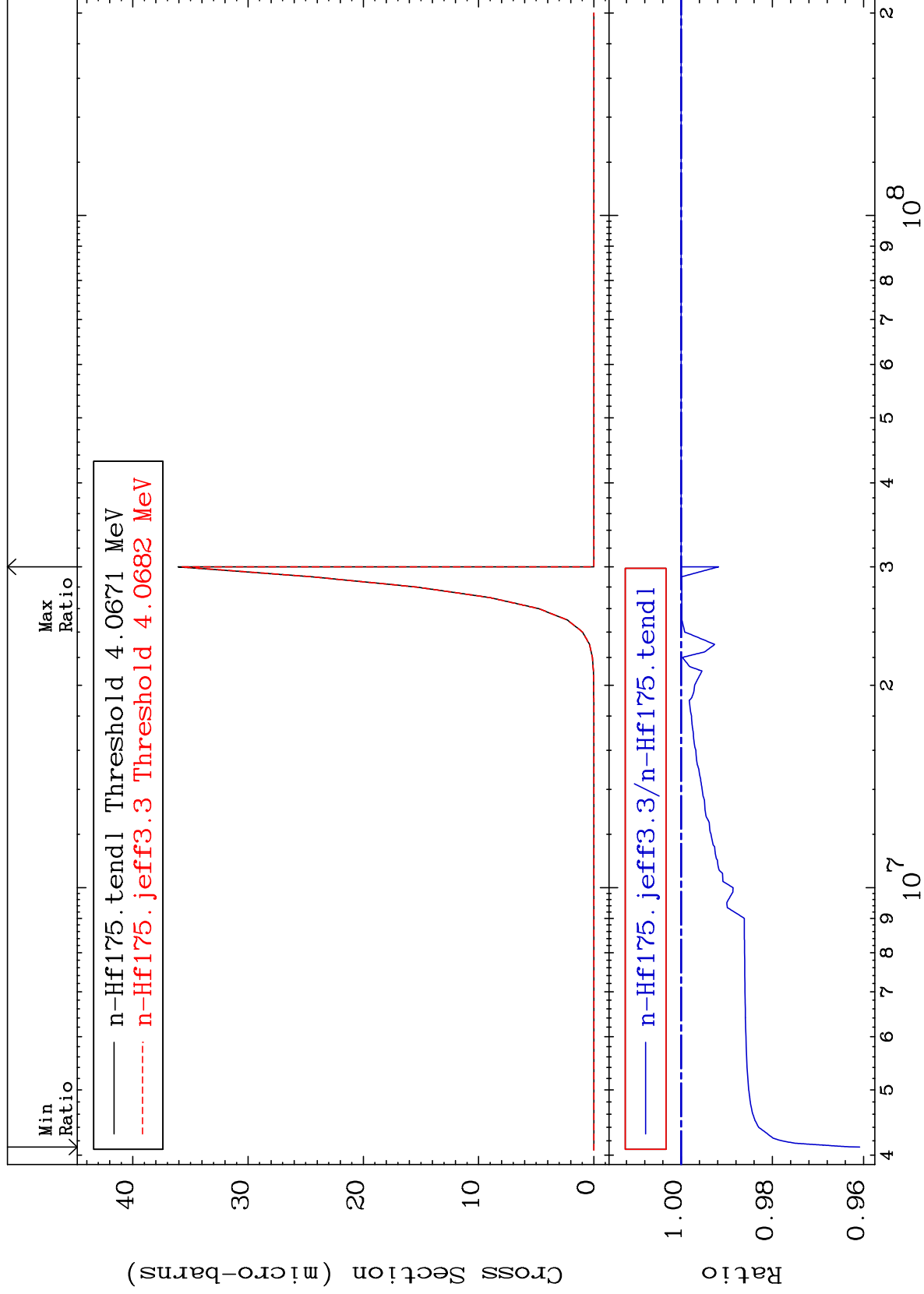
72-Hf-175

Cross Section

-19.98 To 975.2 %







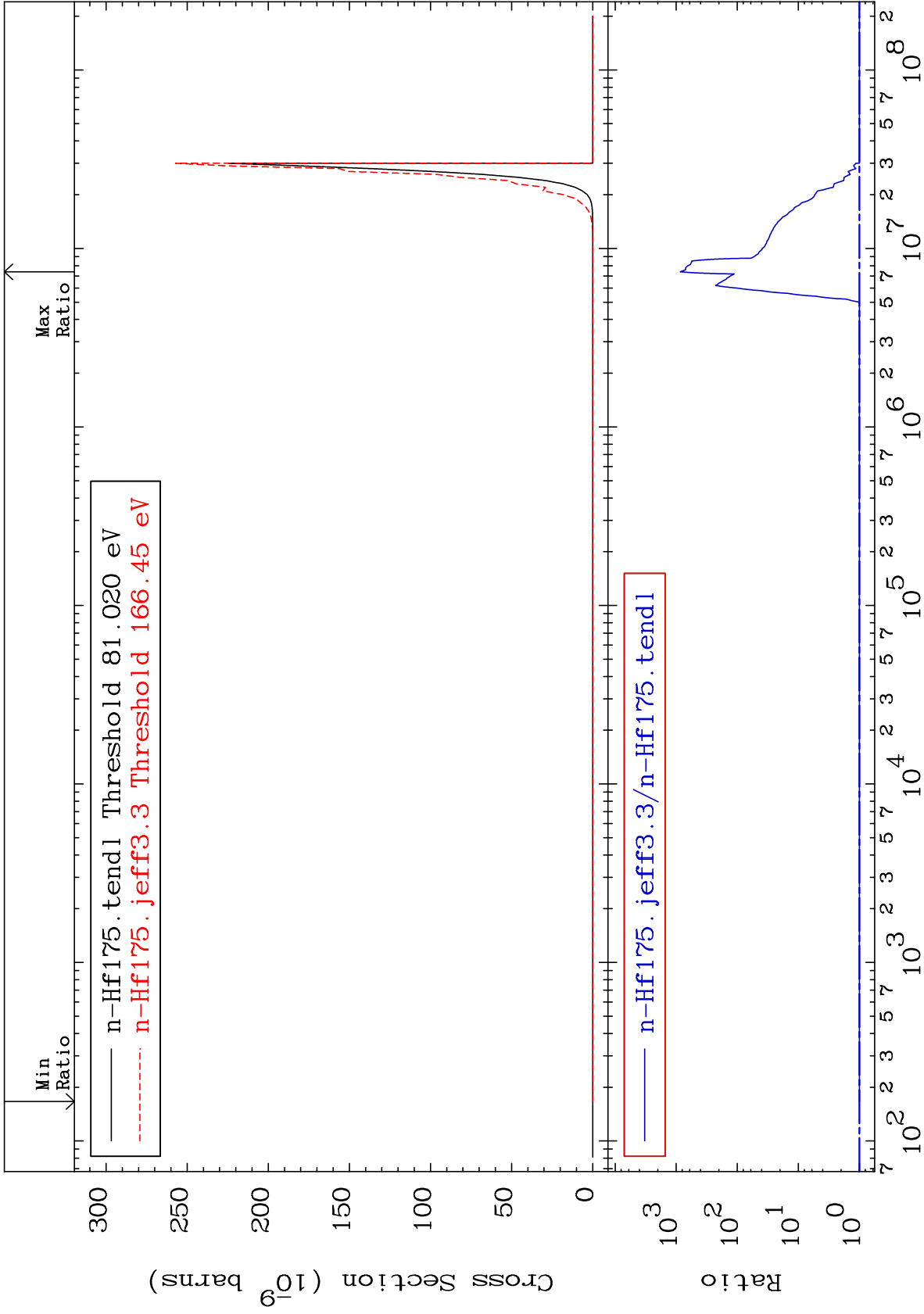
MAT 7228

(n,p) α

72-Hf-175

Cross Section

0.000 To 9999. %



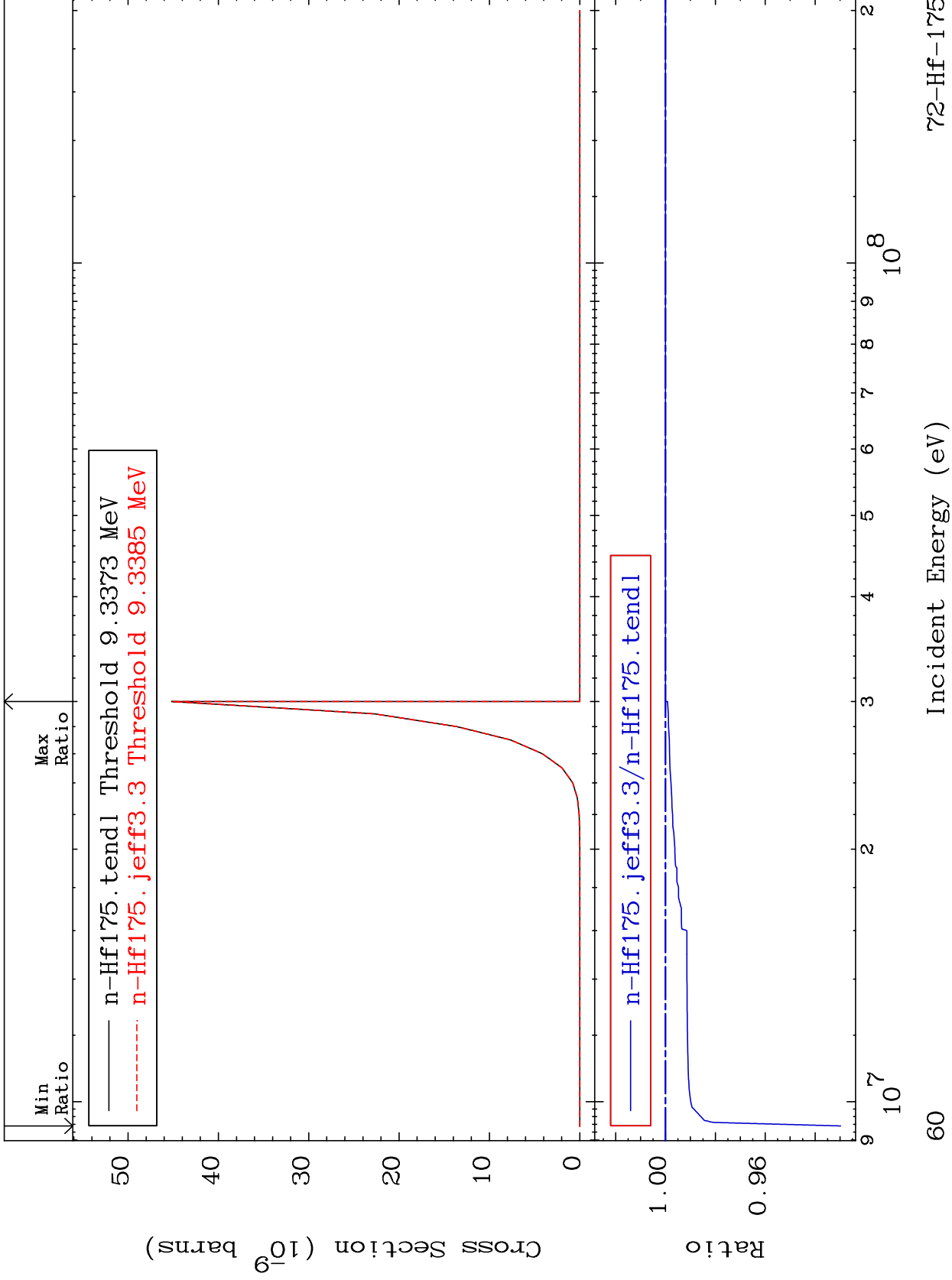
MAT 7228

(n, p) d

72-Hf-175

Cross Section

-7.025 To 0.000 %



Incident Energy (eV)

72-Hf-175

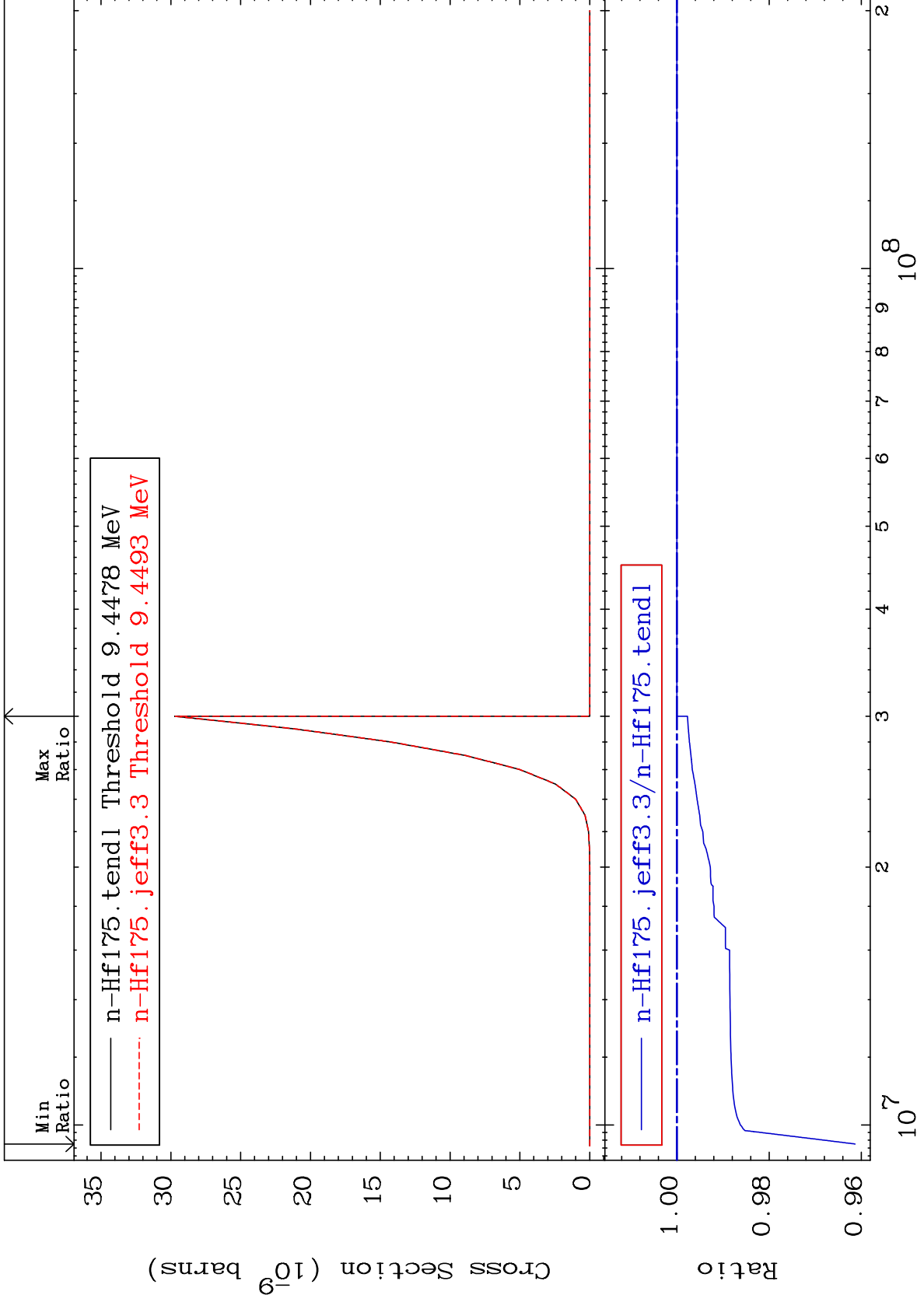
MAT 7228

(n, p) t

72-Hf-175

Cross Section

-3.865 To 0.000 %



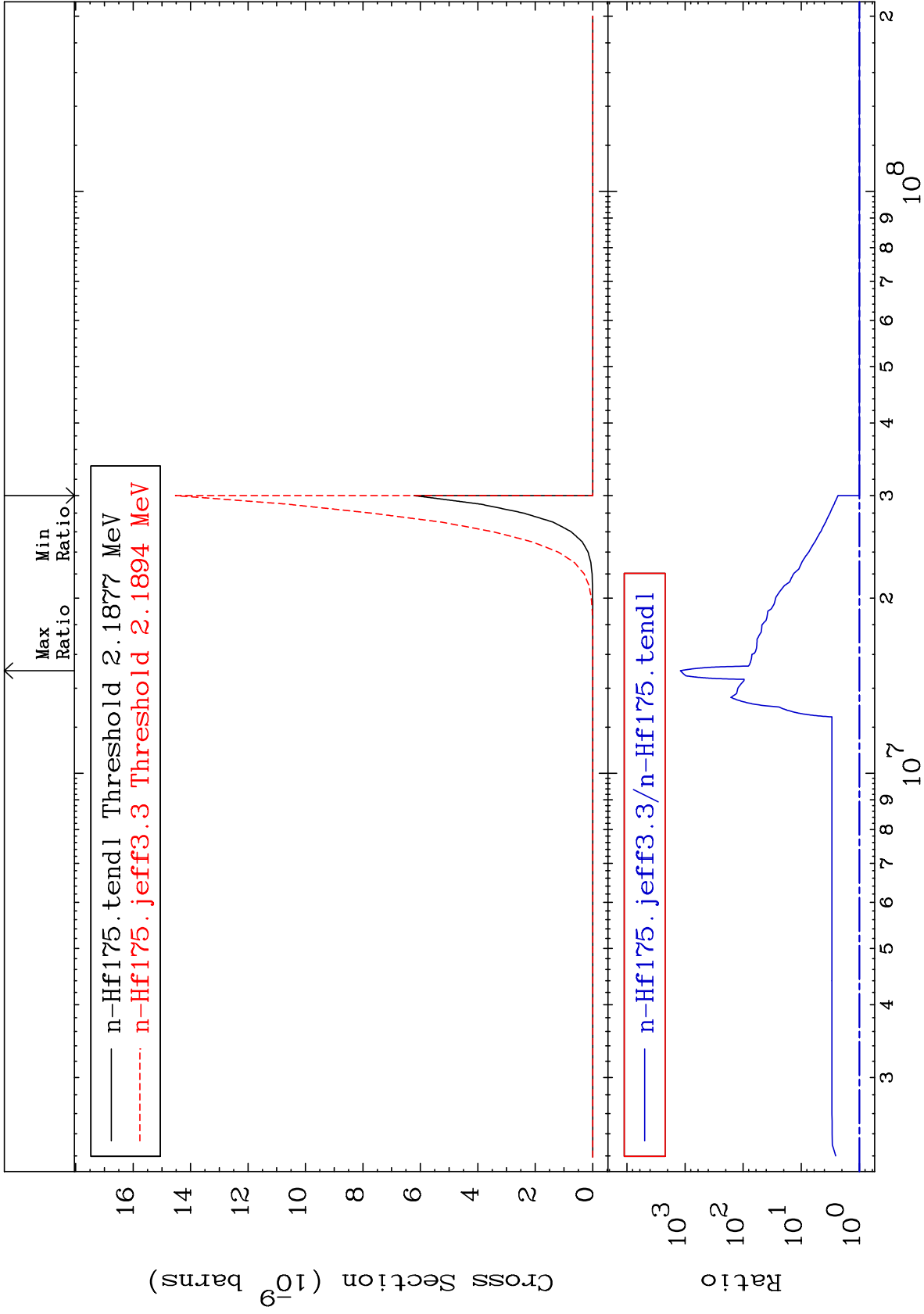
61

Incident Energy (eV)

72-Hf-175

MAT 7228

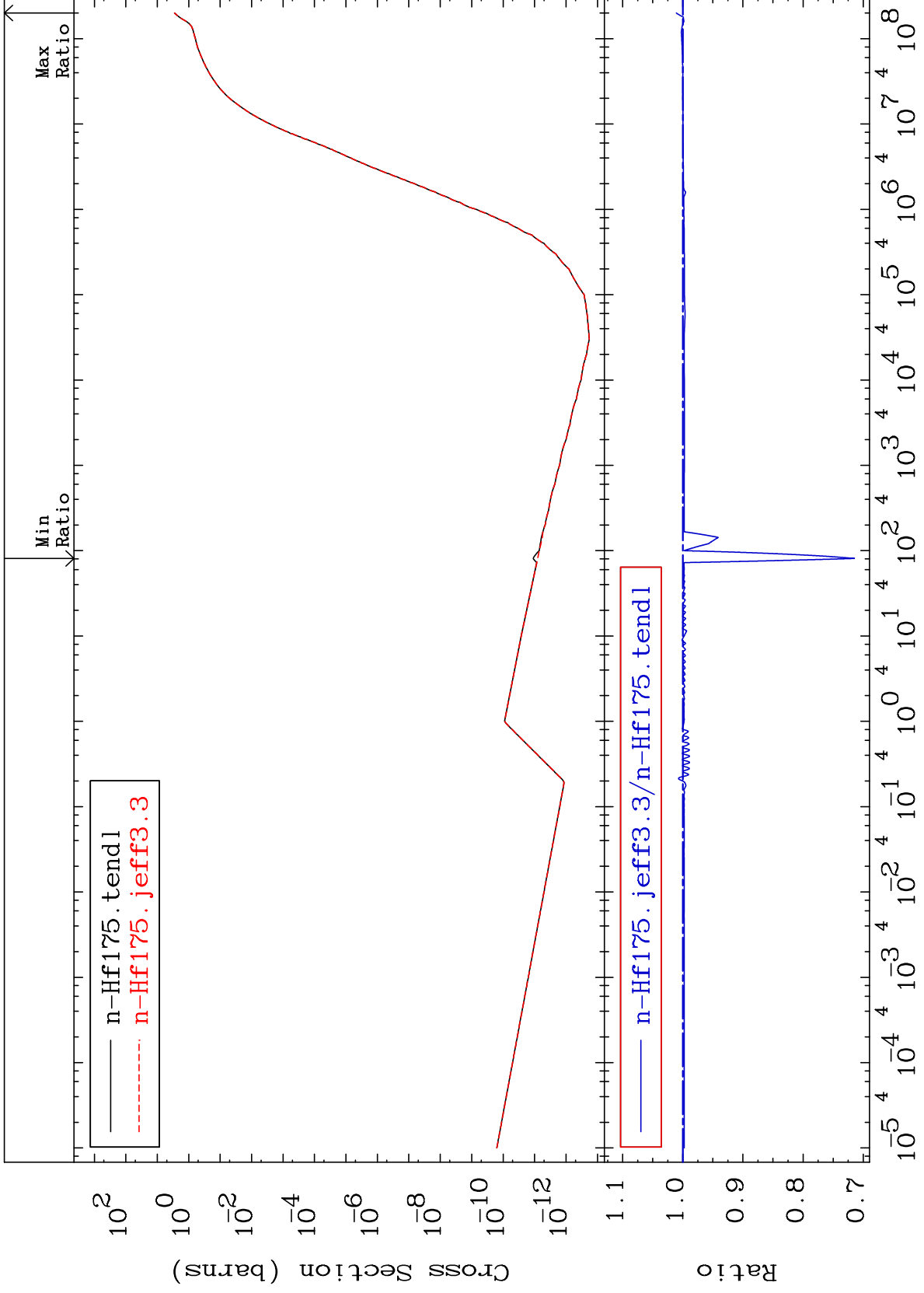
(n, d) α
Cross Section
72-Hf-175
To 9999. %
0.000



MAT 7228

Hydrogen Production
Cross Section

72-Hf-175
-28.53 To 1.075 %



63

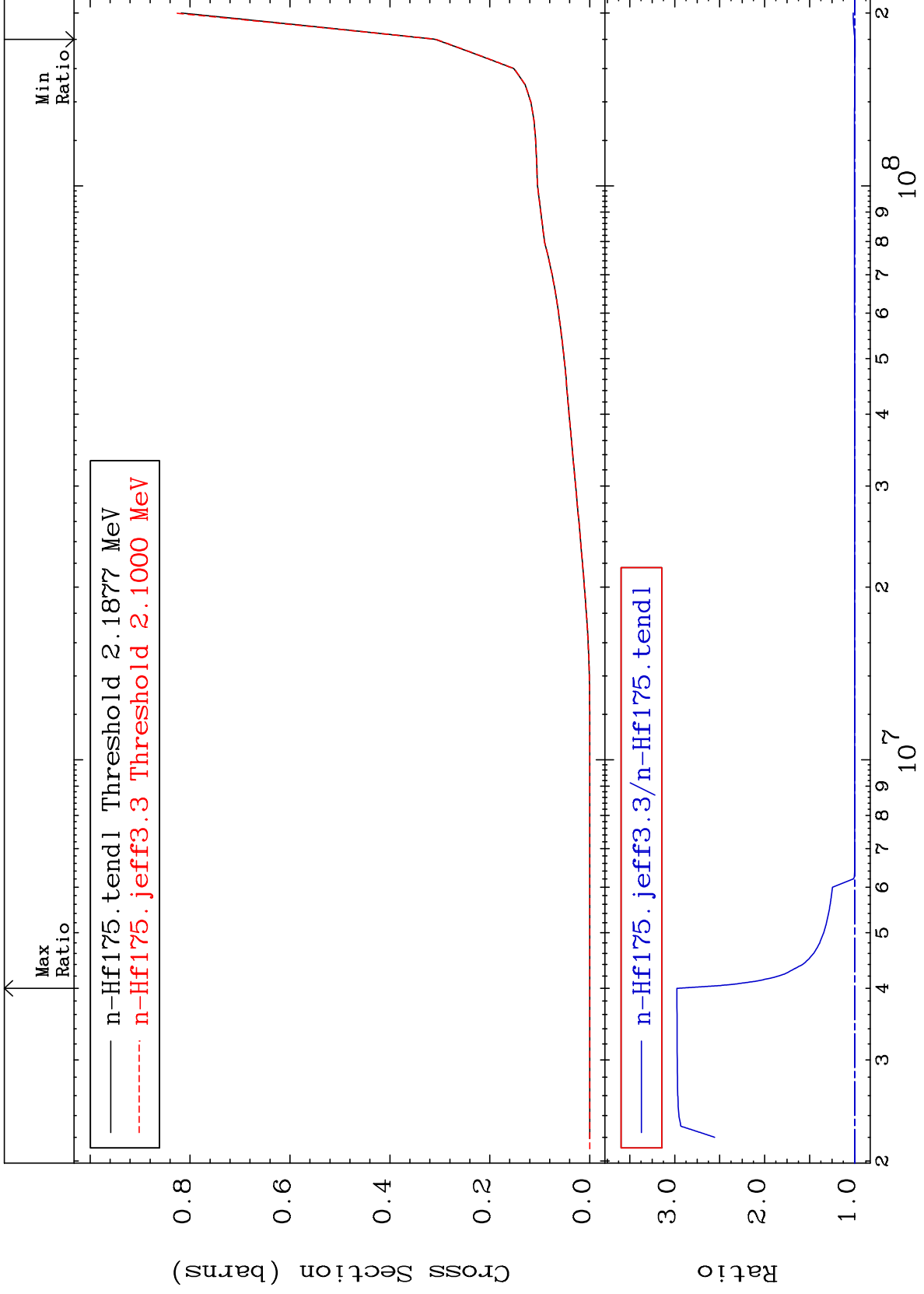
Incident Energy (eV)

72-Hf-175

MAT 7228

Deuterium Production
Cross Section

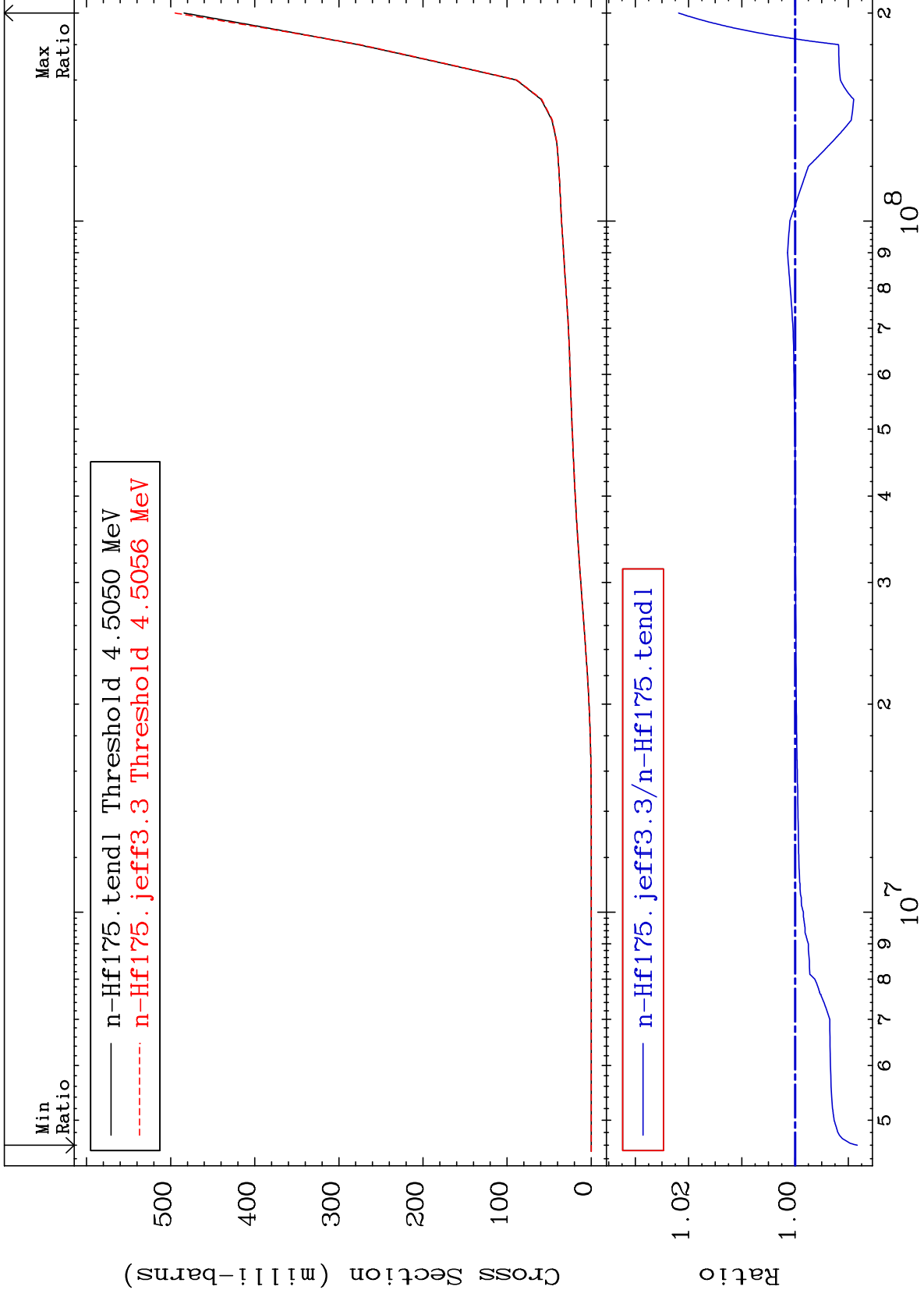
⁷²Hf-175
-0.561 To 197.6 %



MAT 7228

Tritium Production
Cross Section

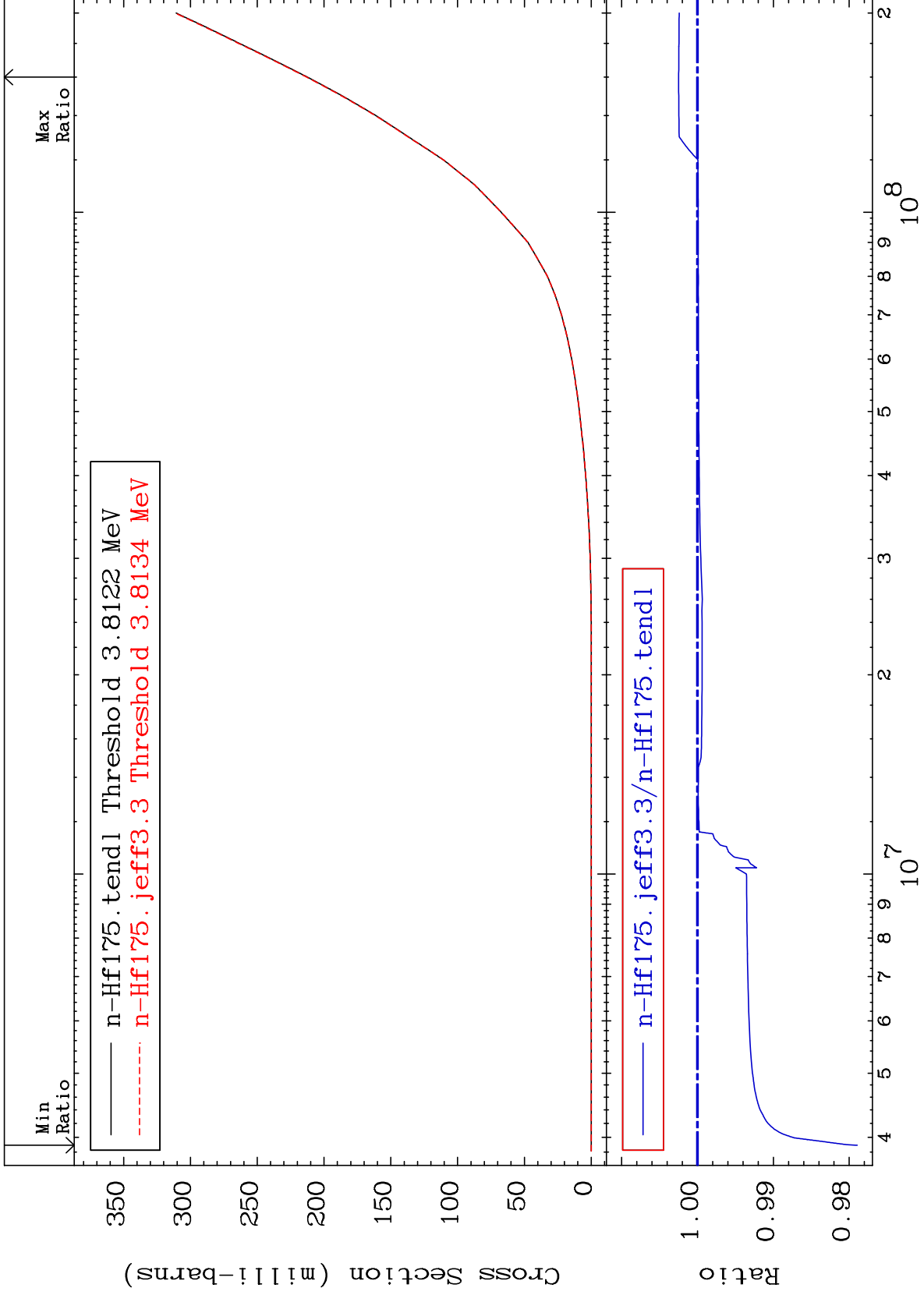
⁷²Hf-175
-1.167 To 2.186 %



MAT 7228

He-3 Production
Cross Section

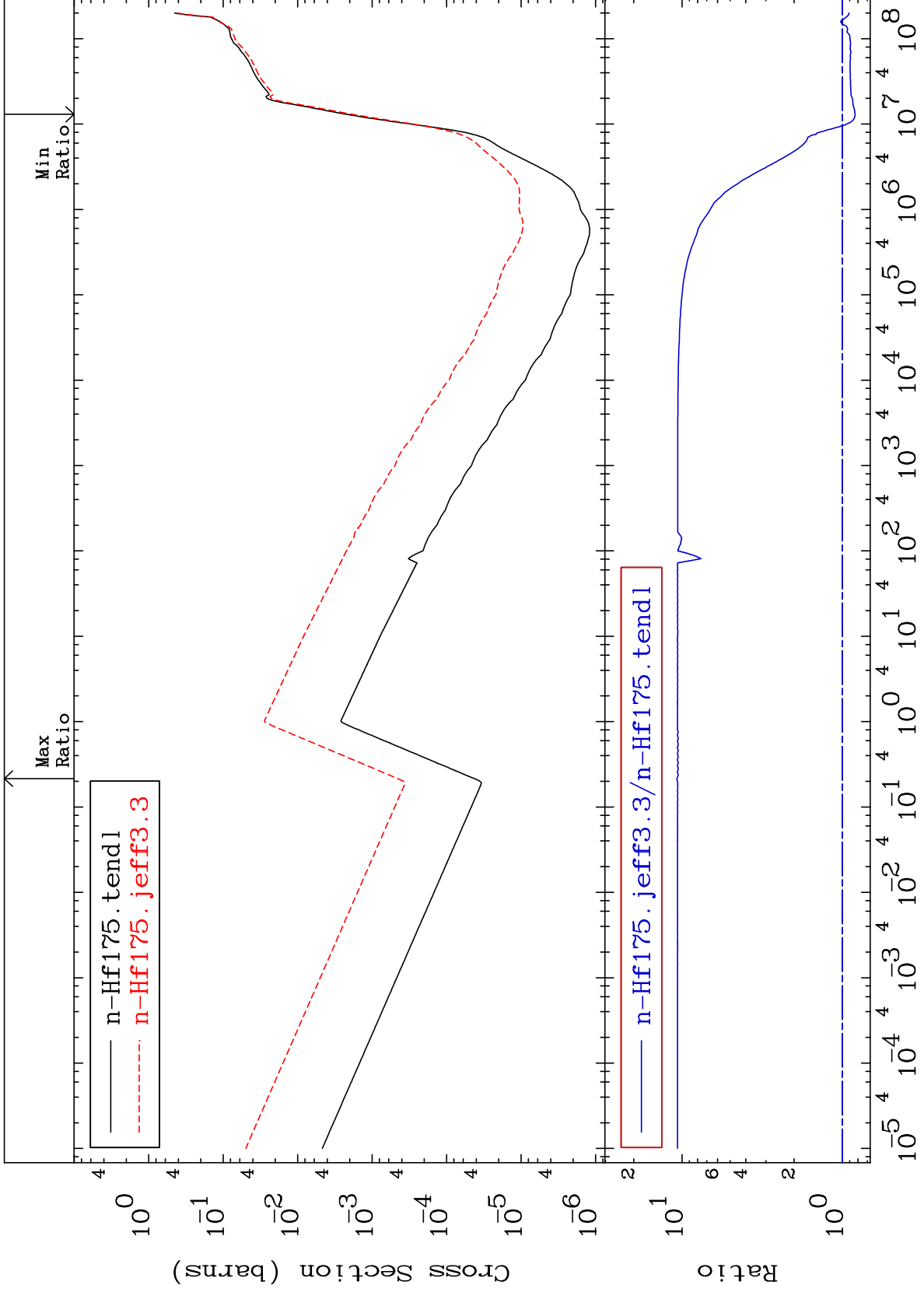
72-Hf-175
-2.106 To 0.248 %

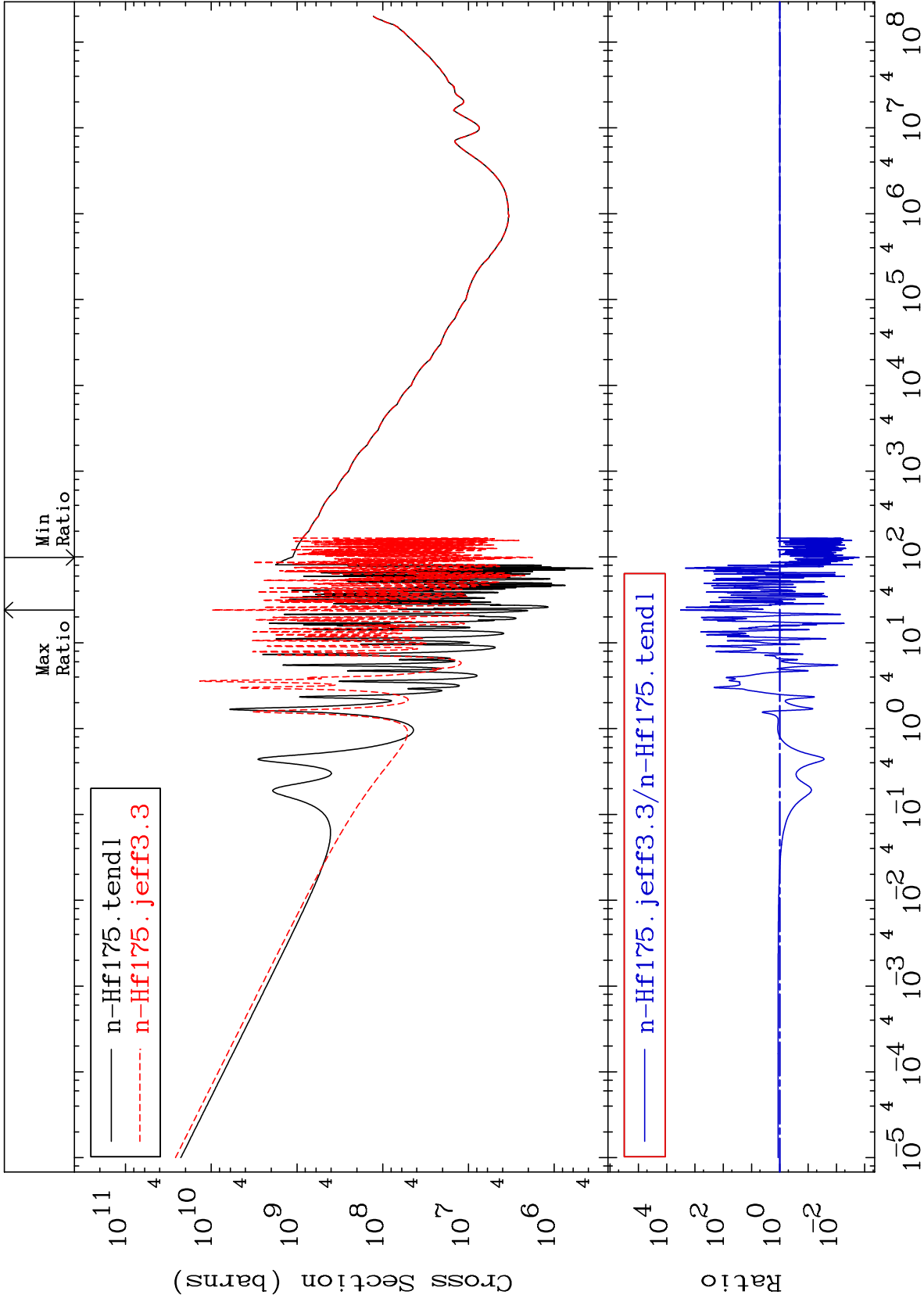


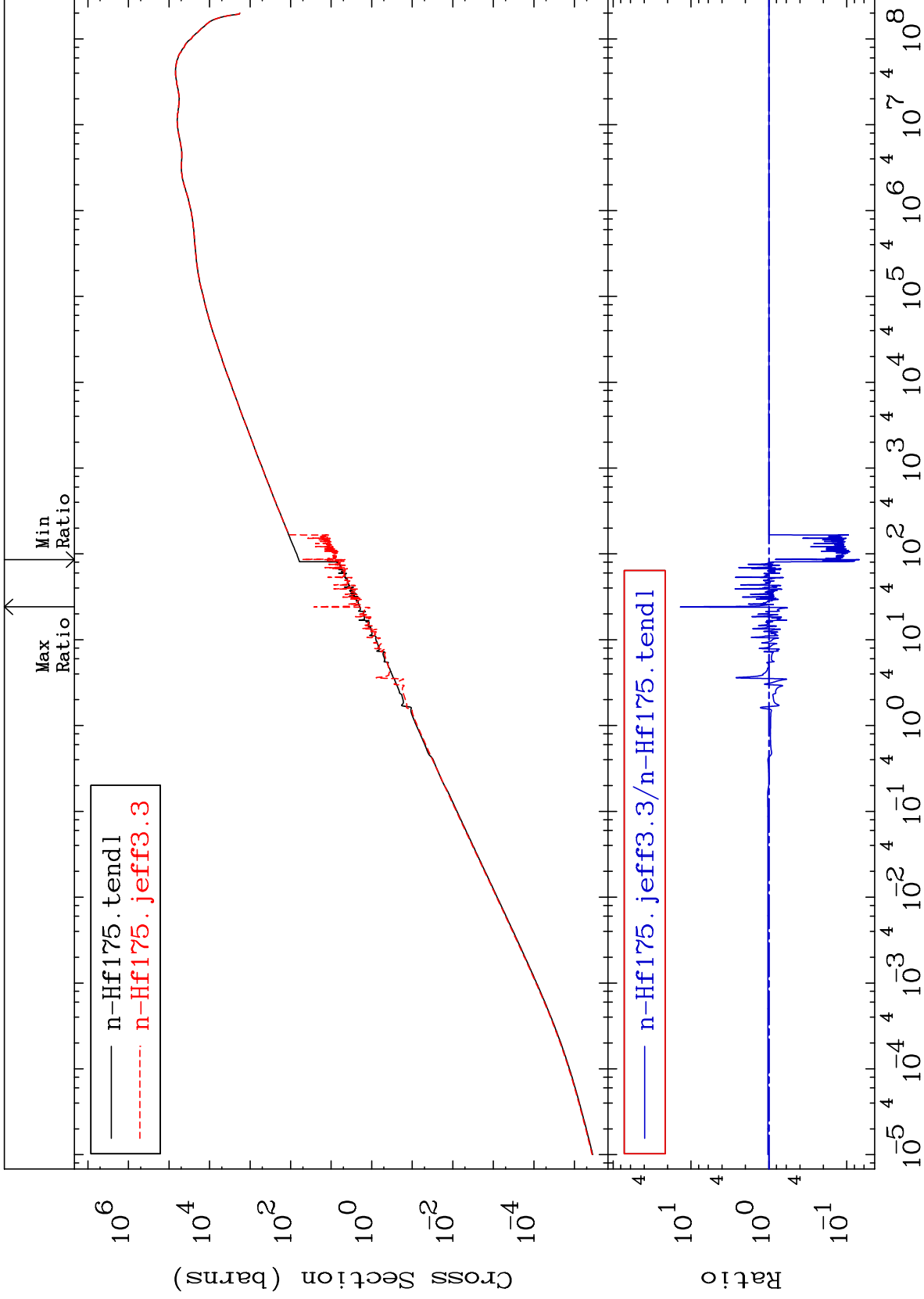
MAT 7228

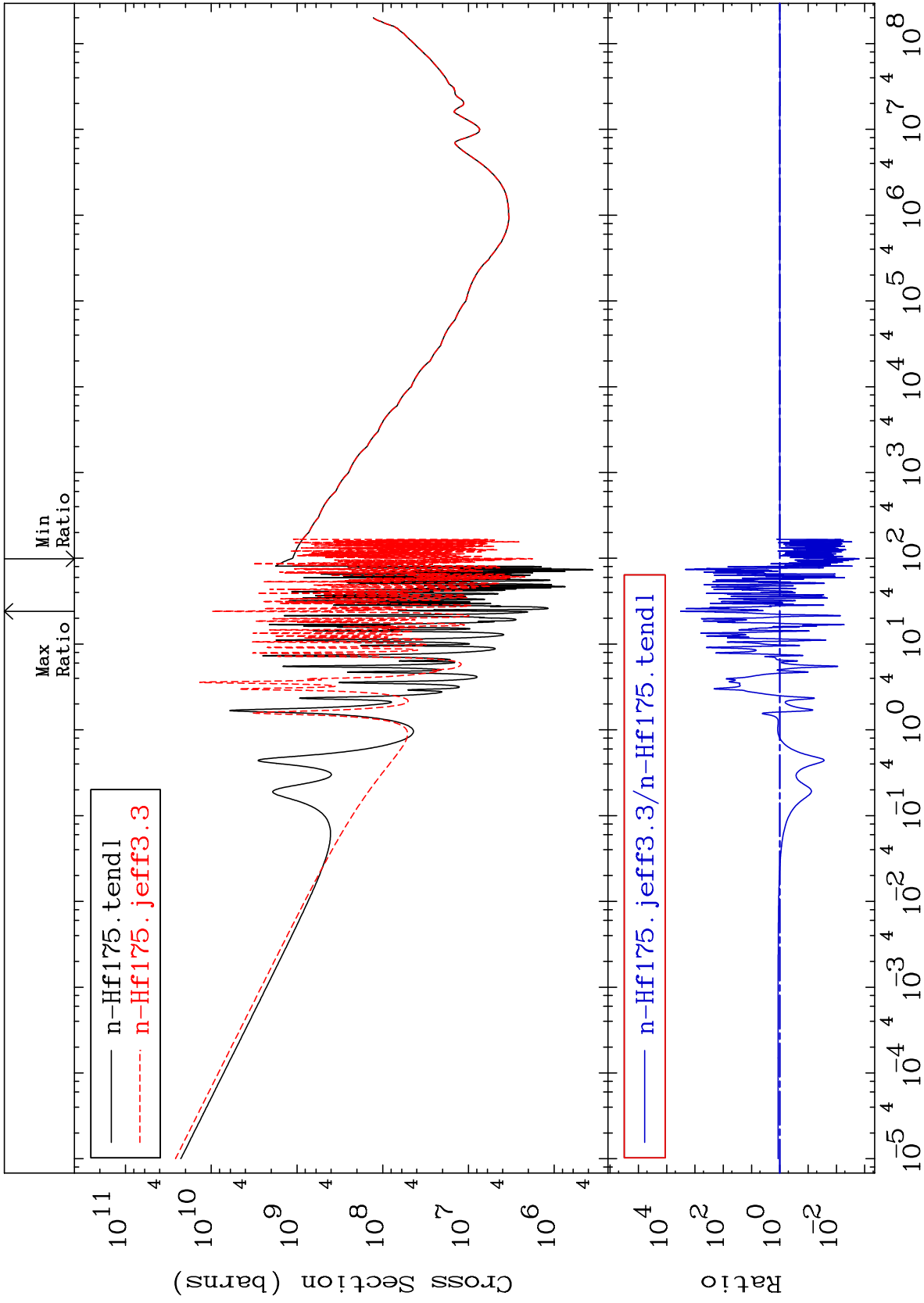
He-4 Production
Cross Section

⁷²Hf-175
-16.62 To 975.2 %





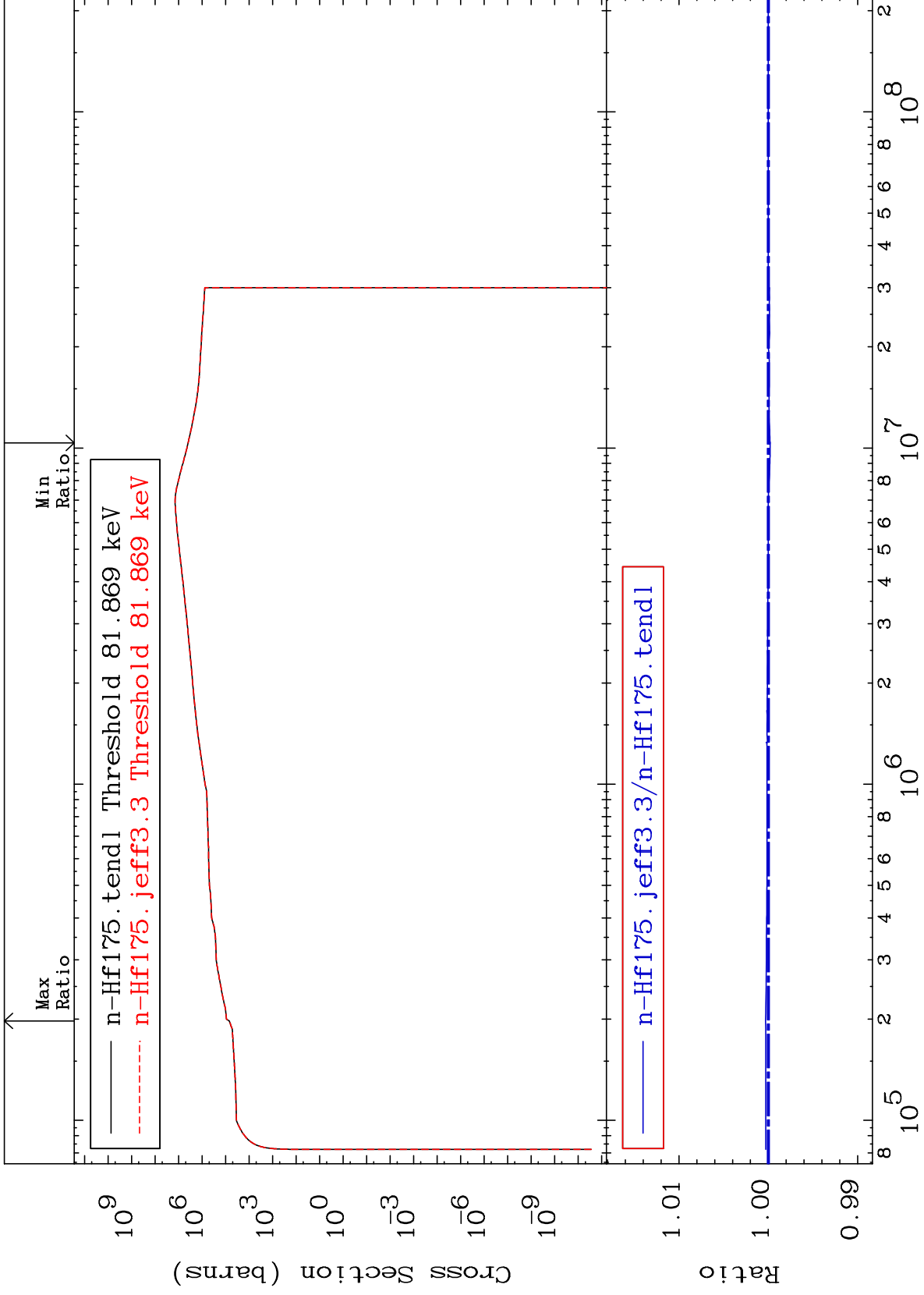




MAT 7228

Kerma inelastic (mt51-91)
Cross Section

72-Hf-175
-0.023 To 0.031 %



71

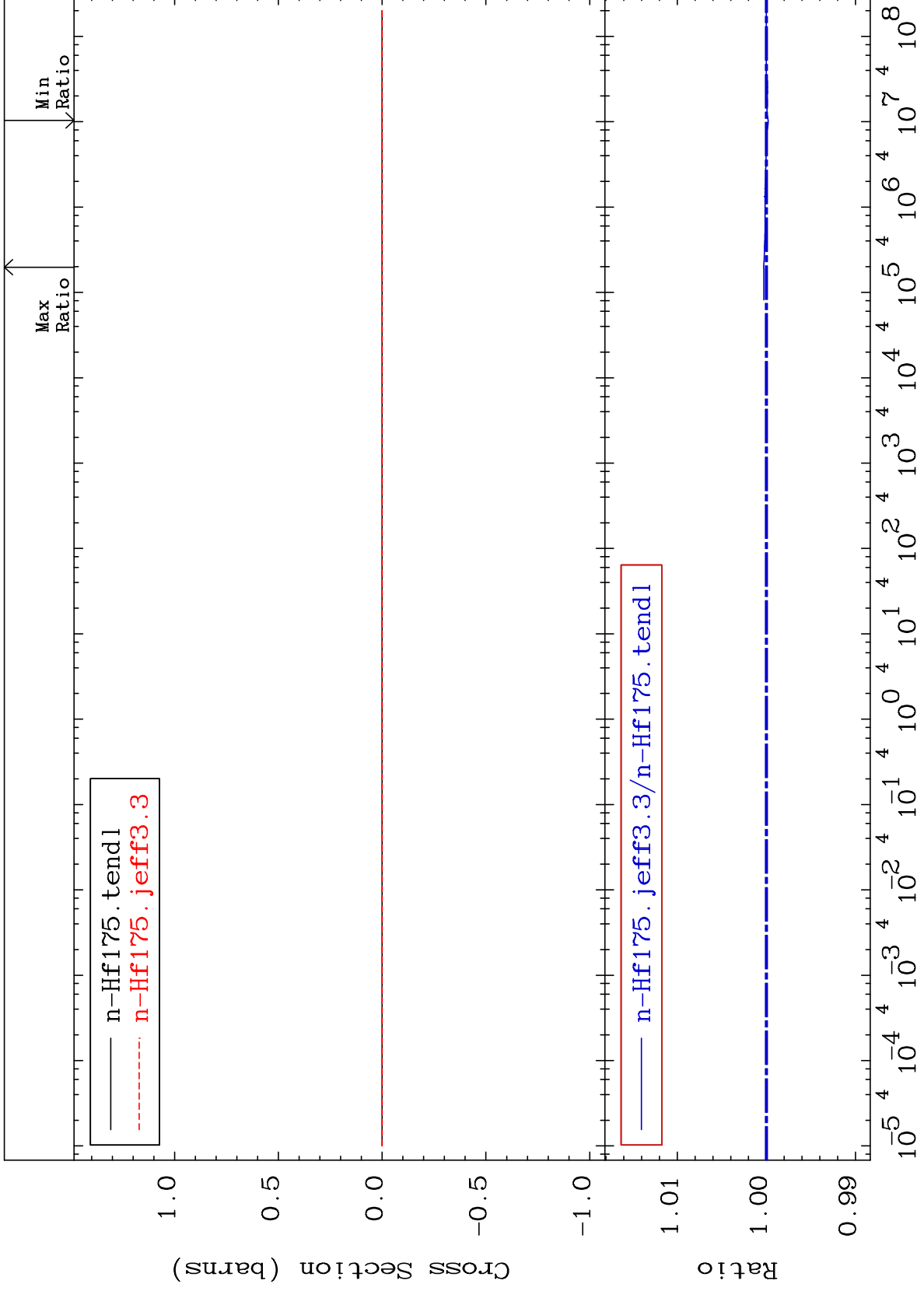
Incident Energy (eV)

72-Hf-175

MAT 7228

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

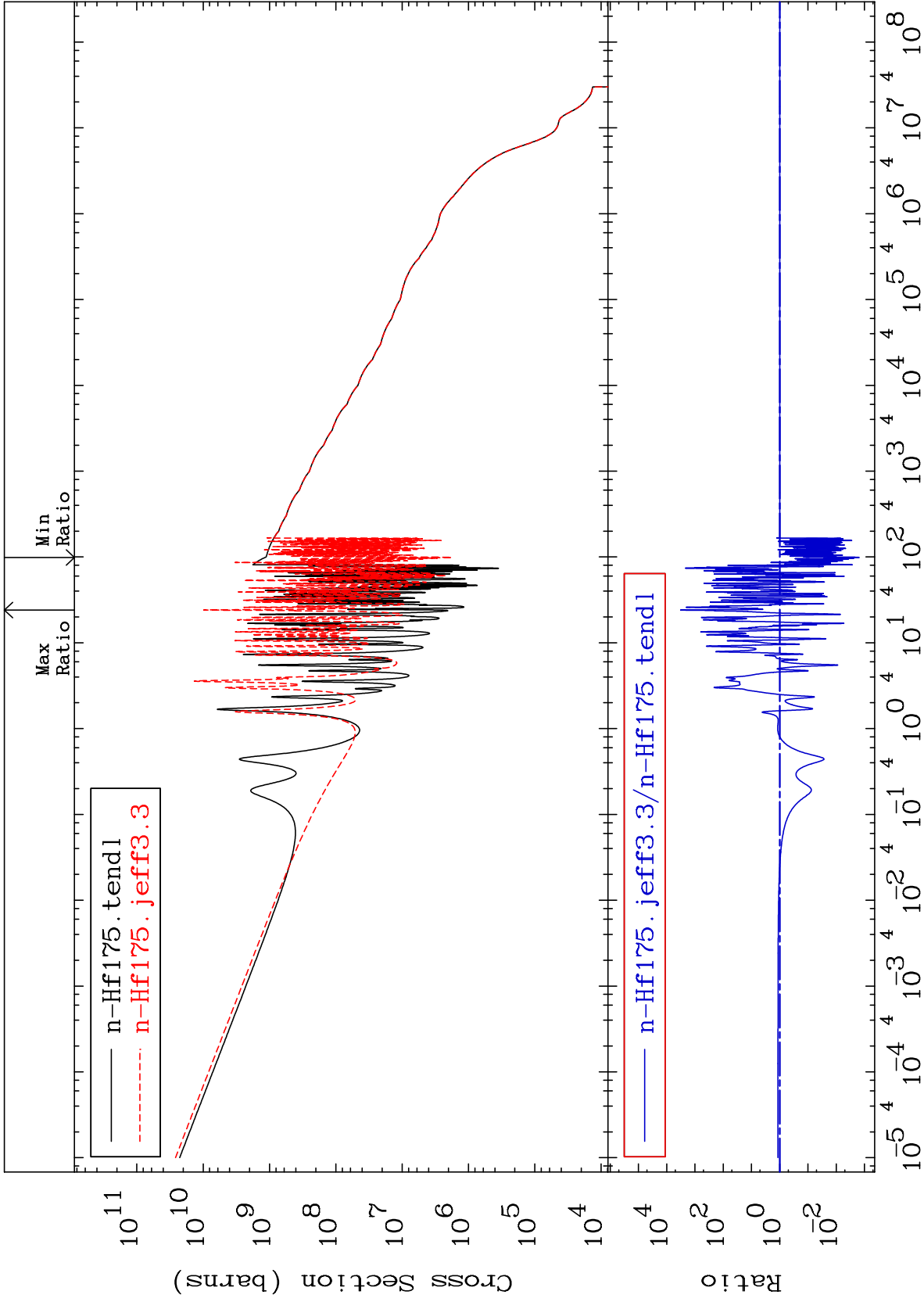
72-Hf-175
-0.023 To 0.031 %

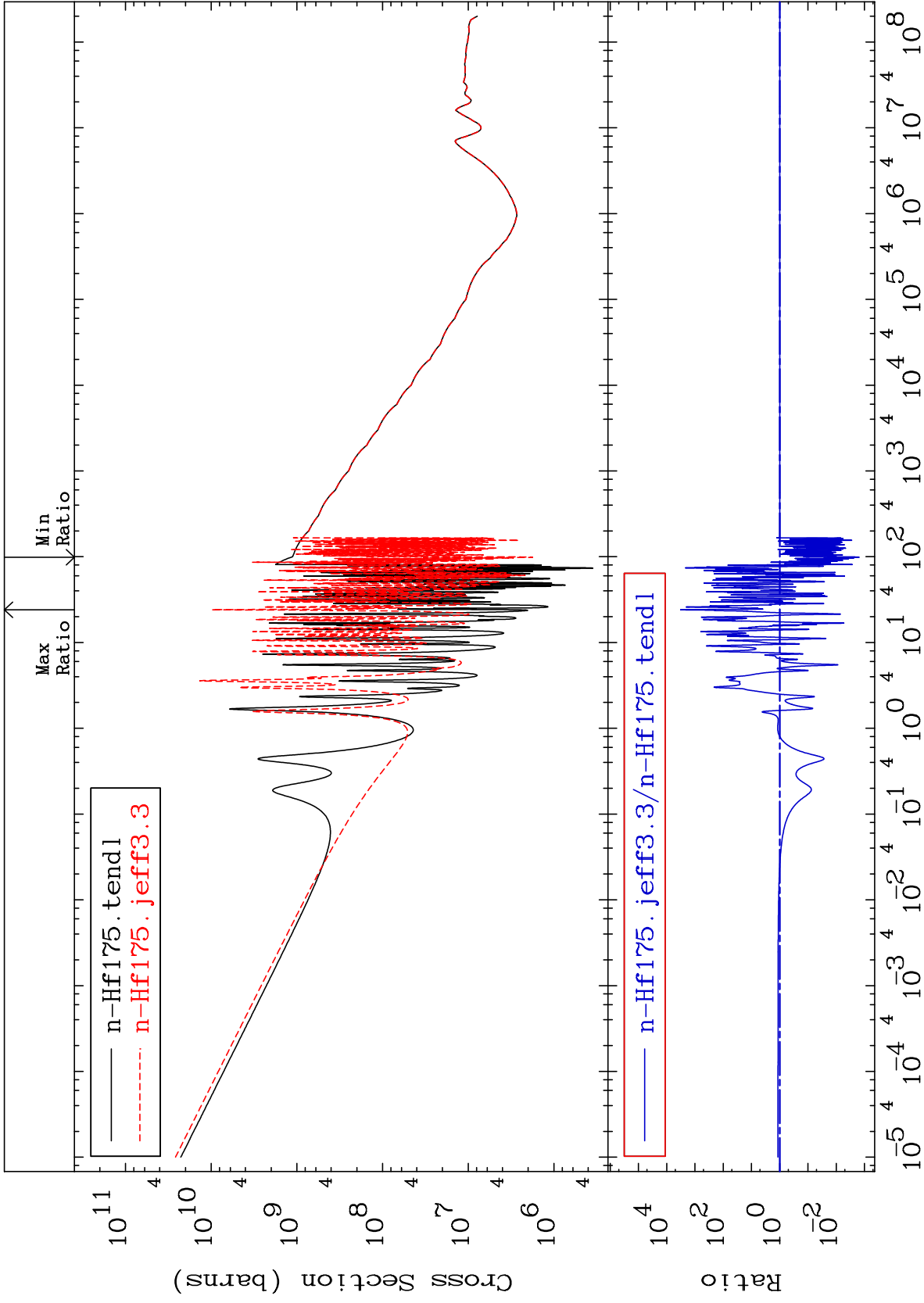


72

Incident Energy (eV)

72-Hf-175

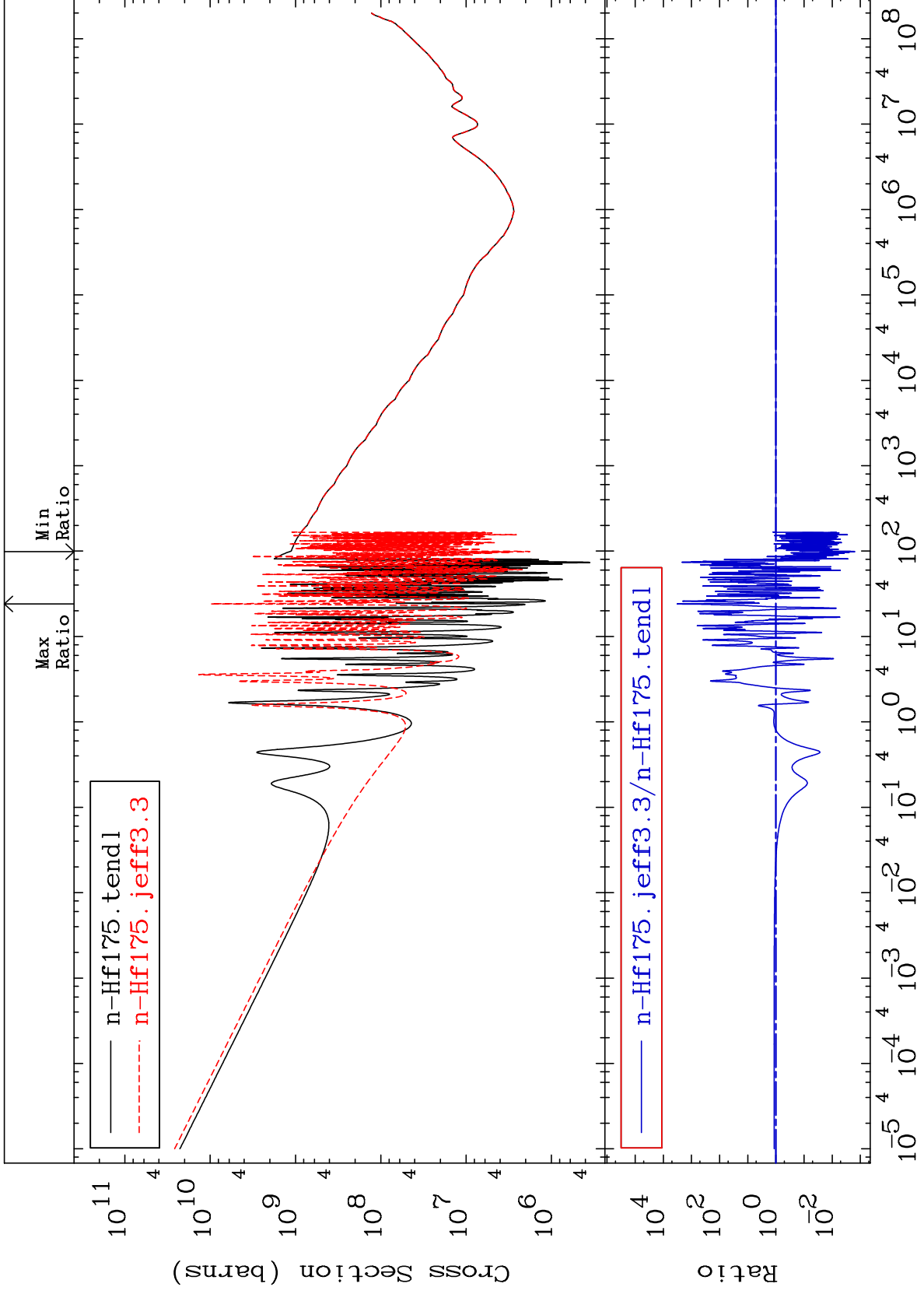




MAT 7228

Total kinematic kerma (high limit)
Cross Section

72-Hf-175
-99.85 To 9999. %



75

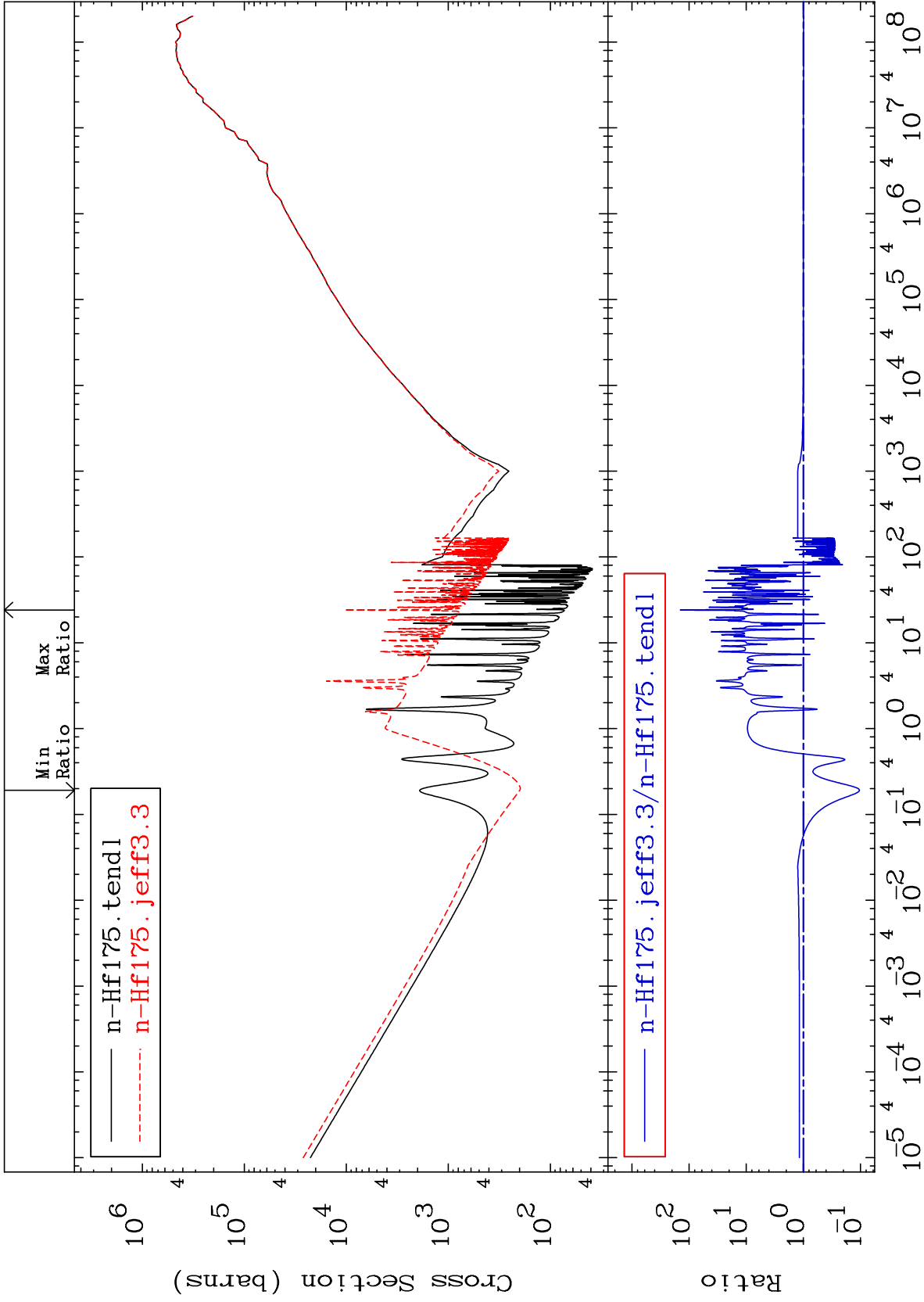
Incident Energy (eV)

72-Hf-175

MAT 7228

Dpa total (eV-barns)
Cross Section

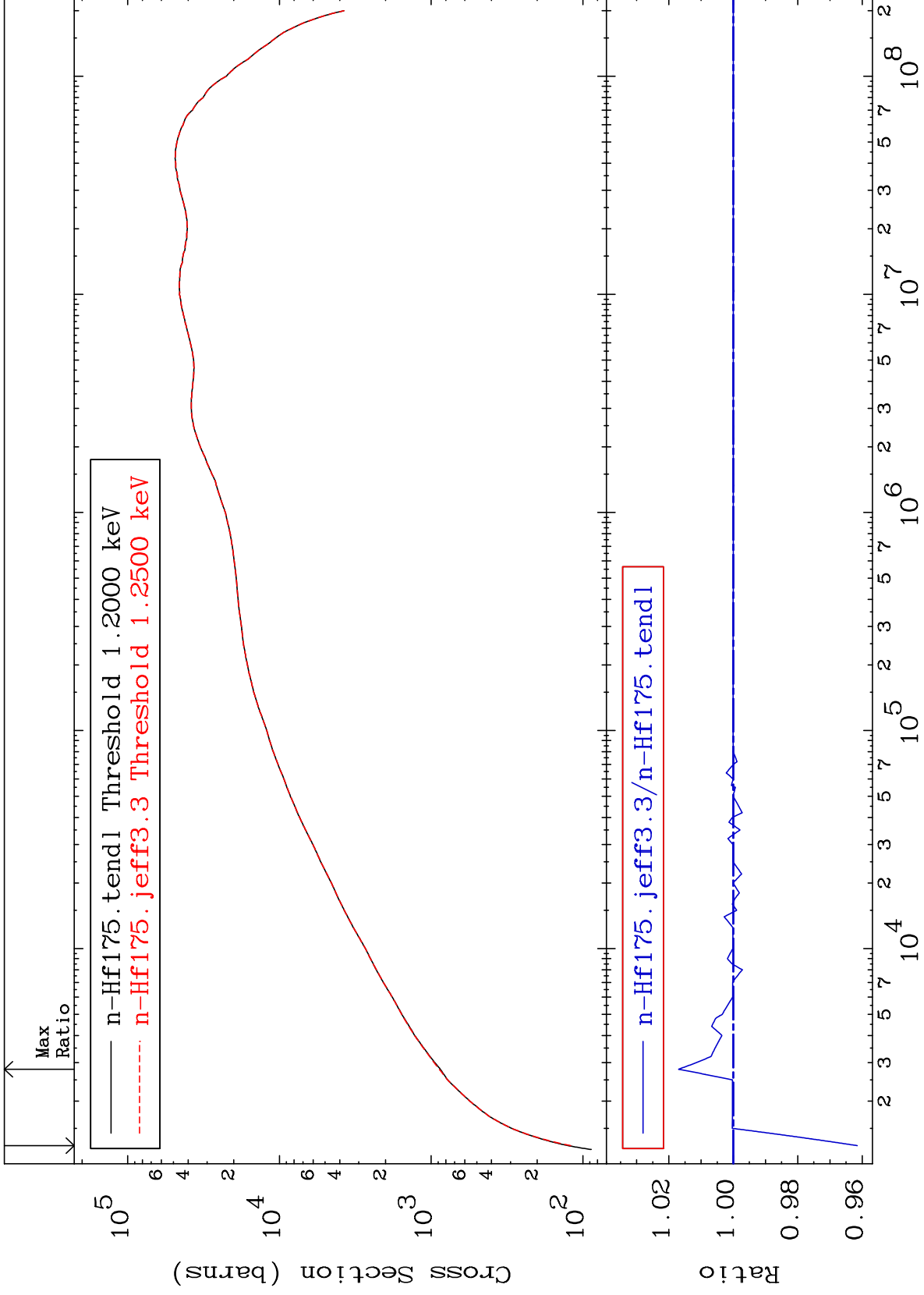
72-Hf-175
-89.54 To 9999. %



76

Incident Energy (eV)

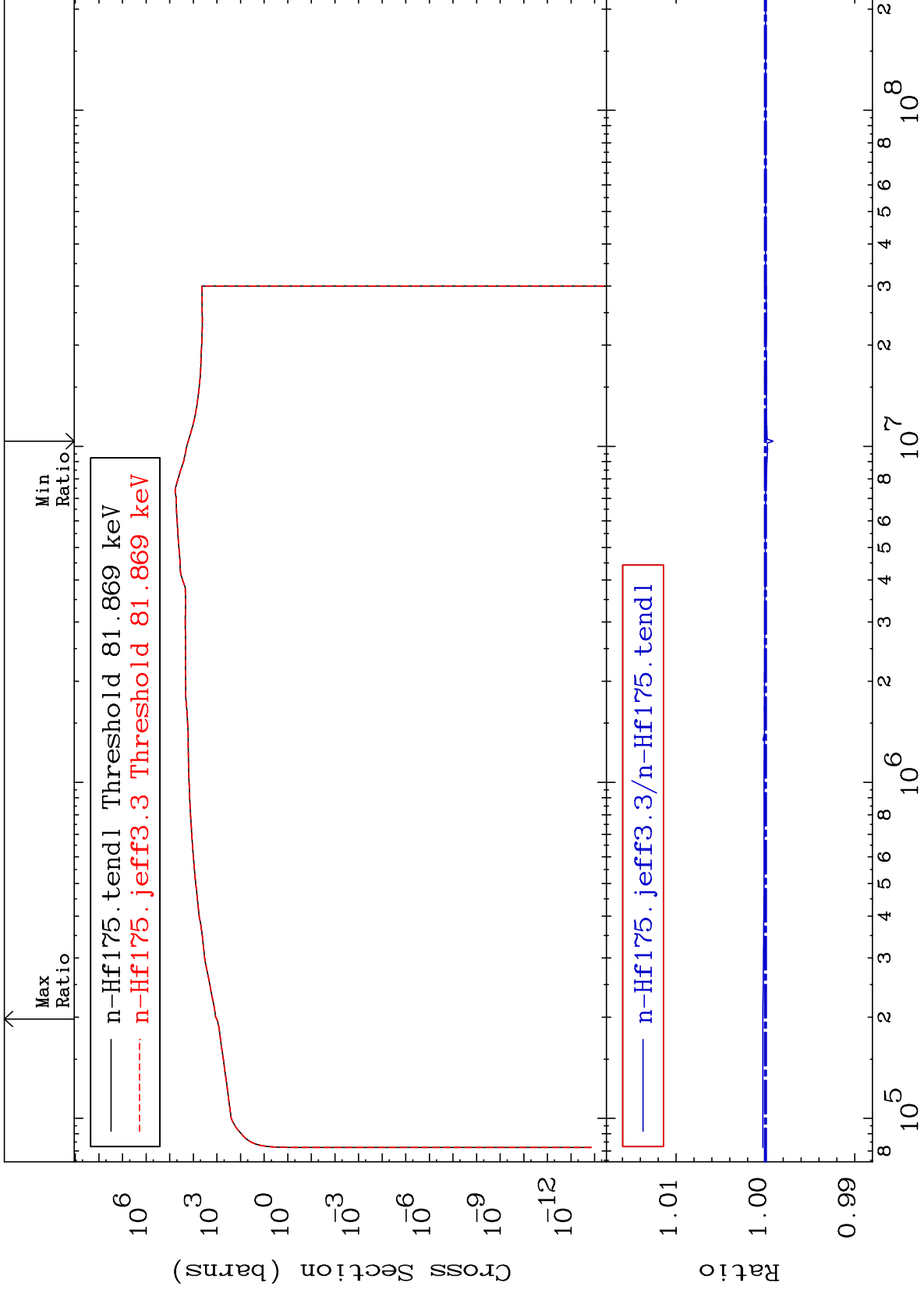
72-Hf-175



MAT 7228

Dpa inelastic (mt51-91)
Cross Section

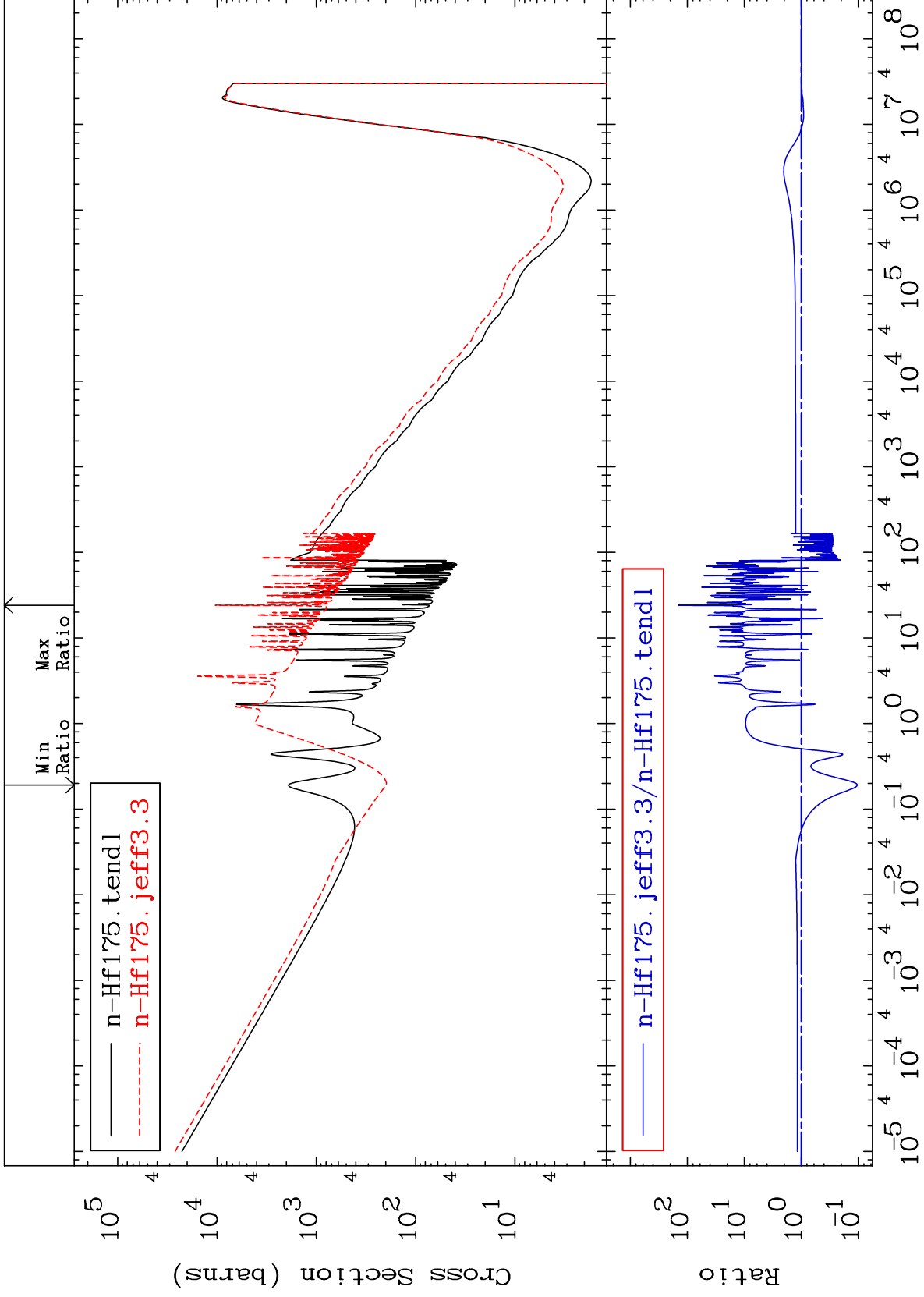
72-Hf-175
-0.085 To 0.029 %



78

Incident Energy (eV)

72-Hf-175

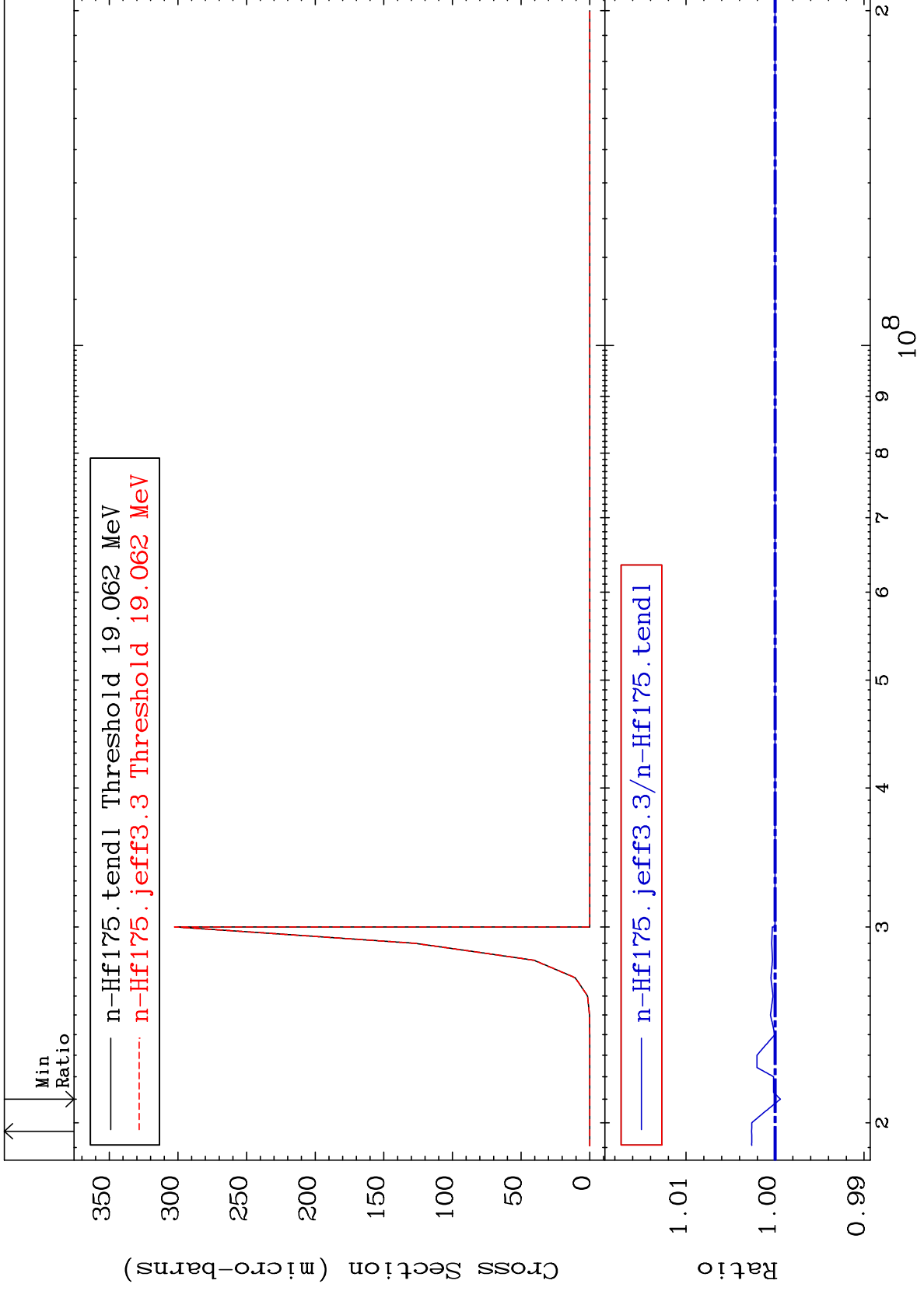


MAT 7228

(n,2n) d:71-Lu-172g

72-Hf-175

Radionuclide Production Cross Section -0.059 To 0.264 %



80

Incident Energy (eV)

72-Hf-175

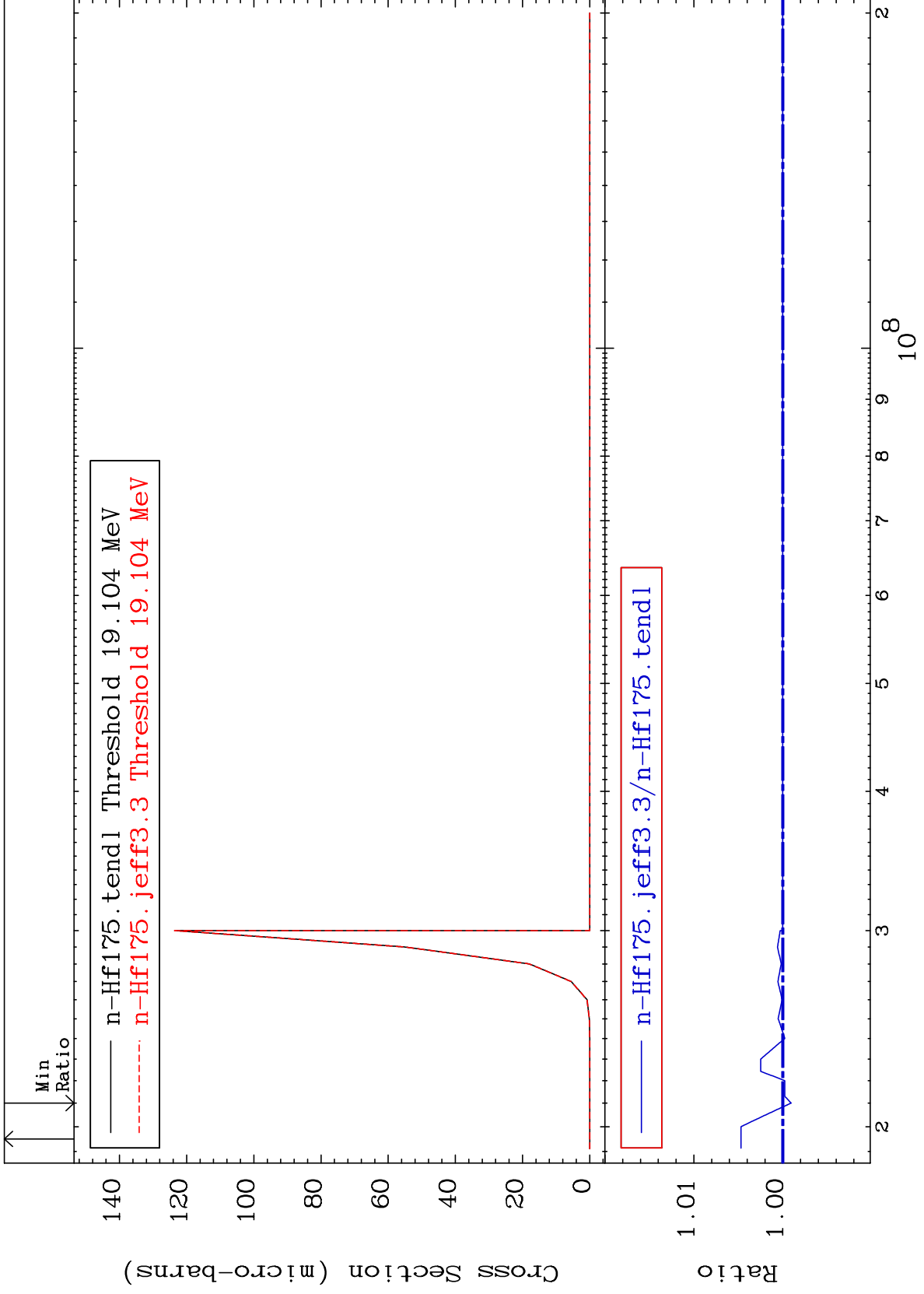
MAT 7228

(n,2n) d:71-Lu-172m1

72-Hf-175

Radionuclide Production Cross Section

-0.094 To 0.471 %

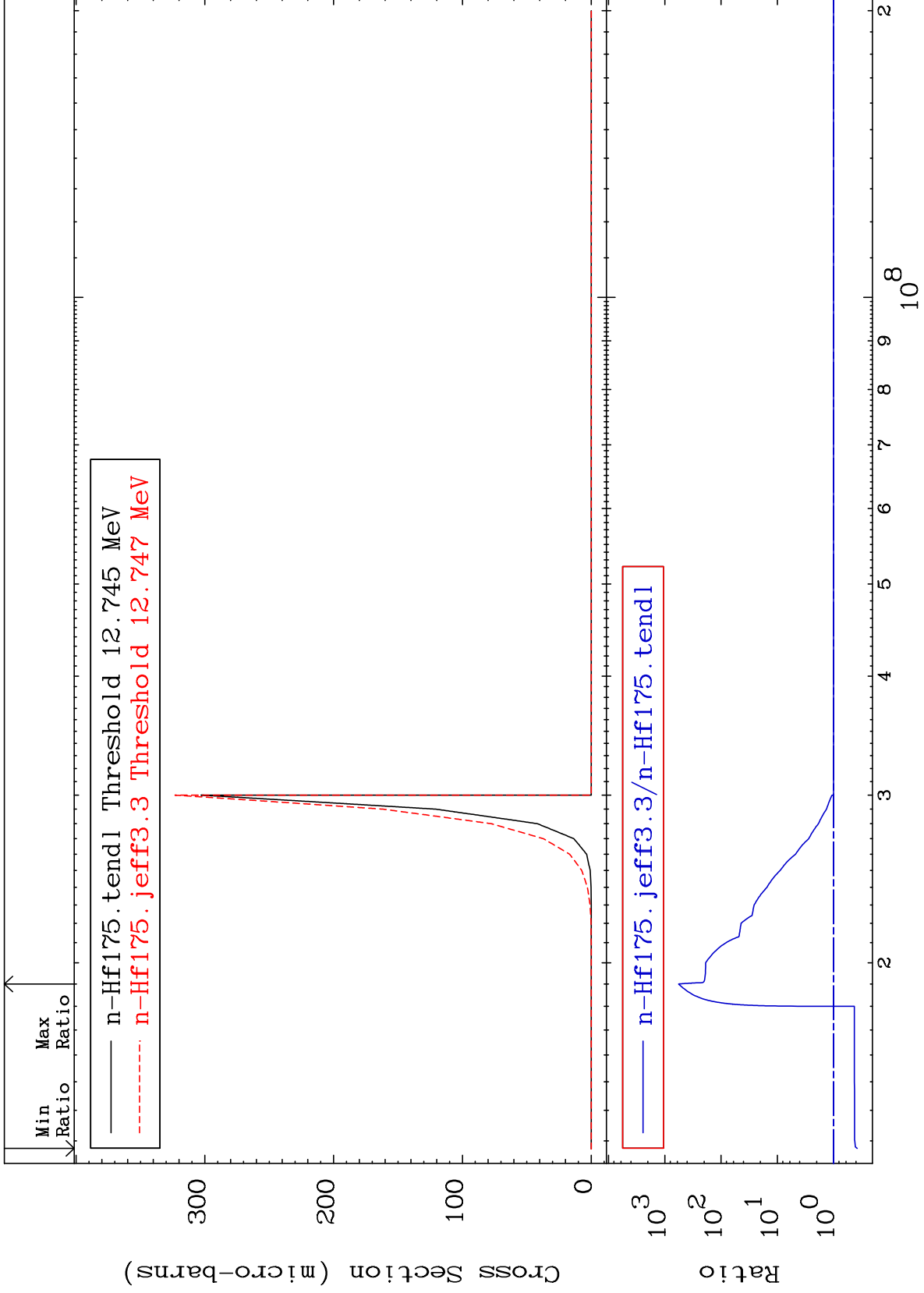


MAT 7228

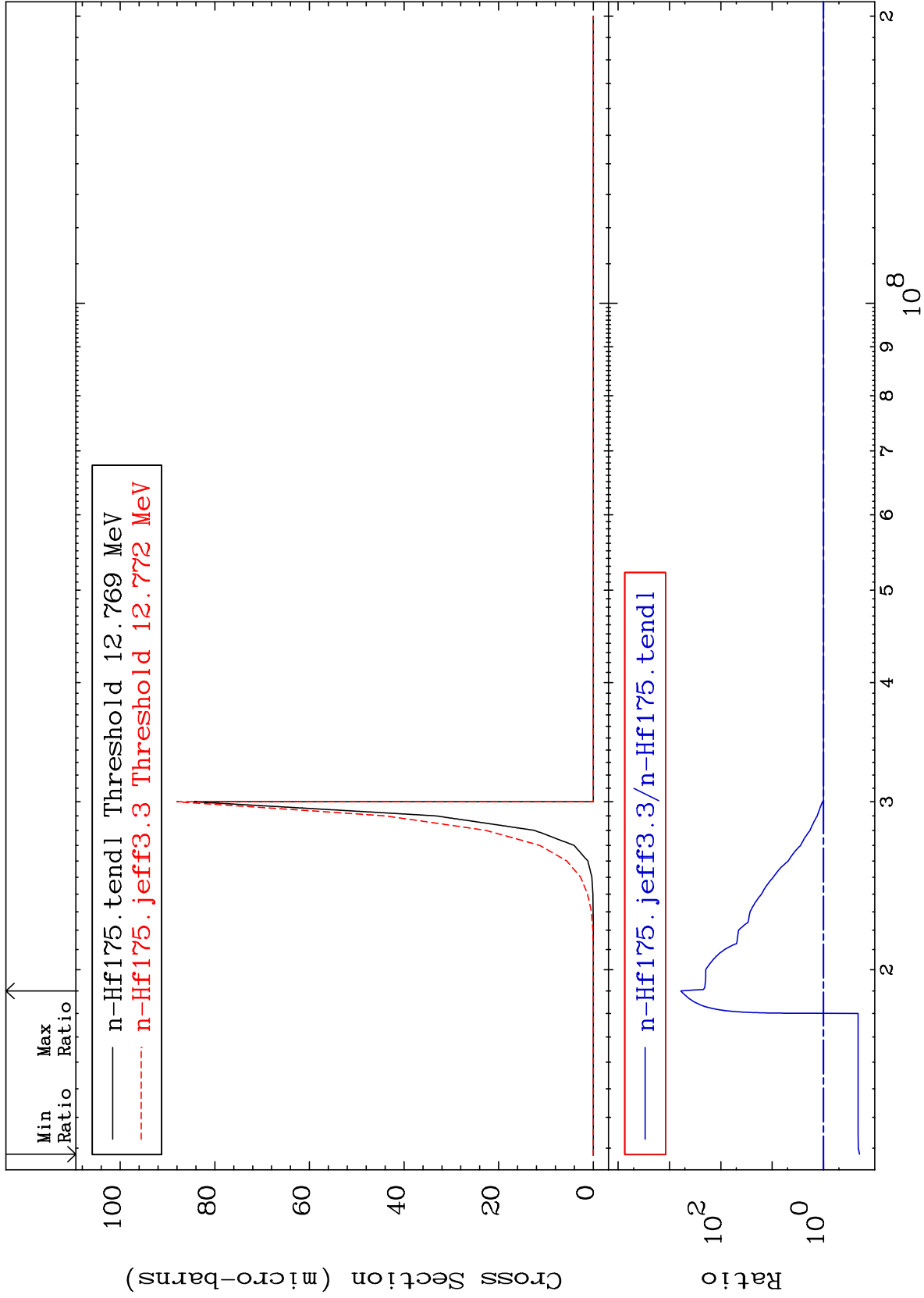
(n,3n) α : 70-Yb-169g

72-Hf-175

Radionuclide Production Cross Section -62.07 To 9999. %



Radionuclide Production Cross Section -80.18 To 9999. %

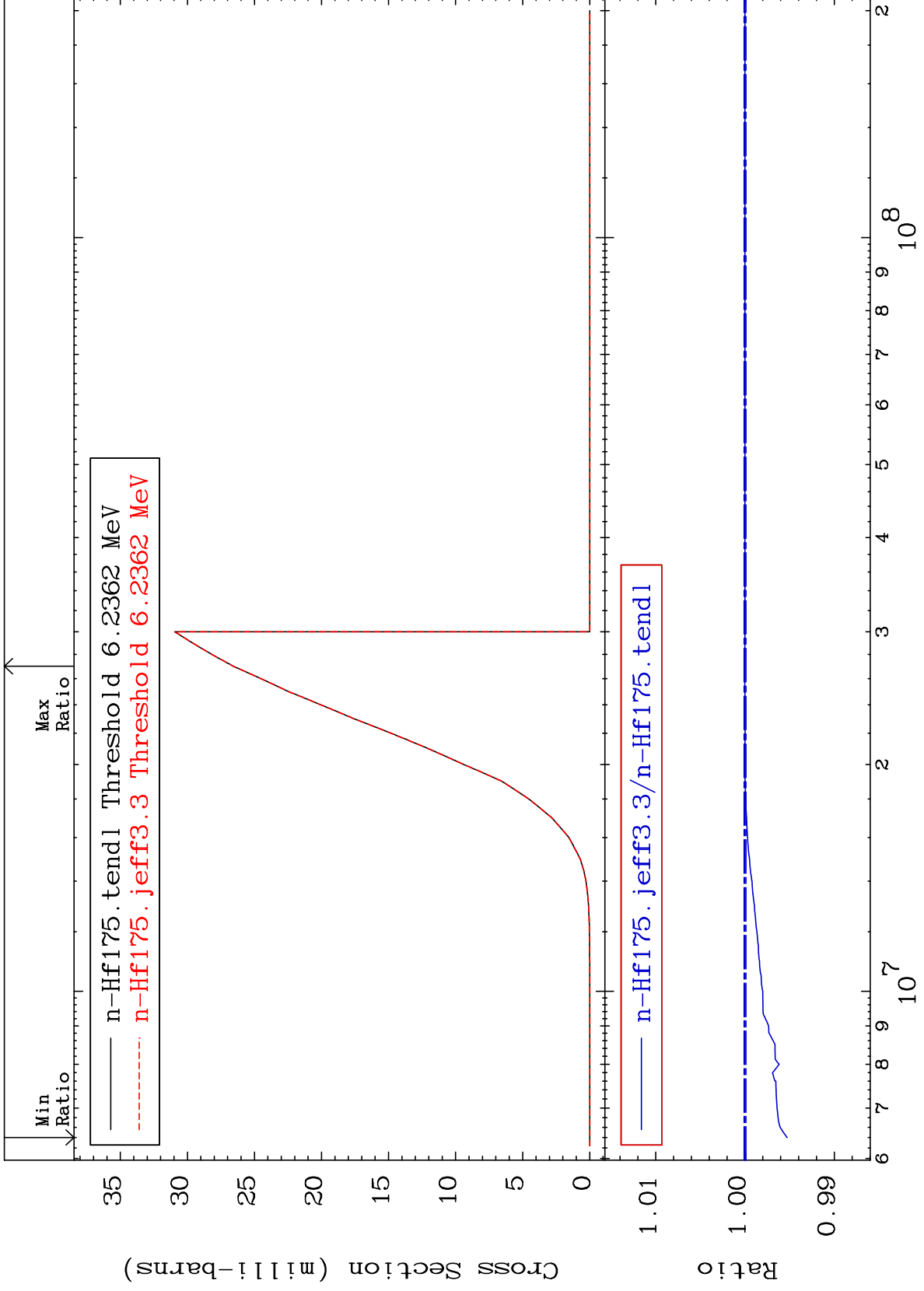


MAT 7228

(n, n') p: 71-Lu-174g

72-Hf-175

Radionuclide Production Cross Section -0.473 To 0.002 %



84

Incident Energy (eV)

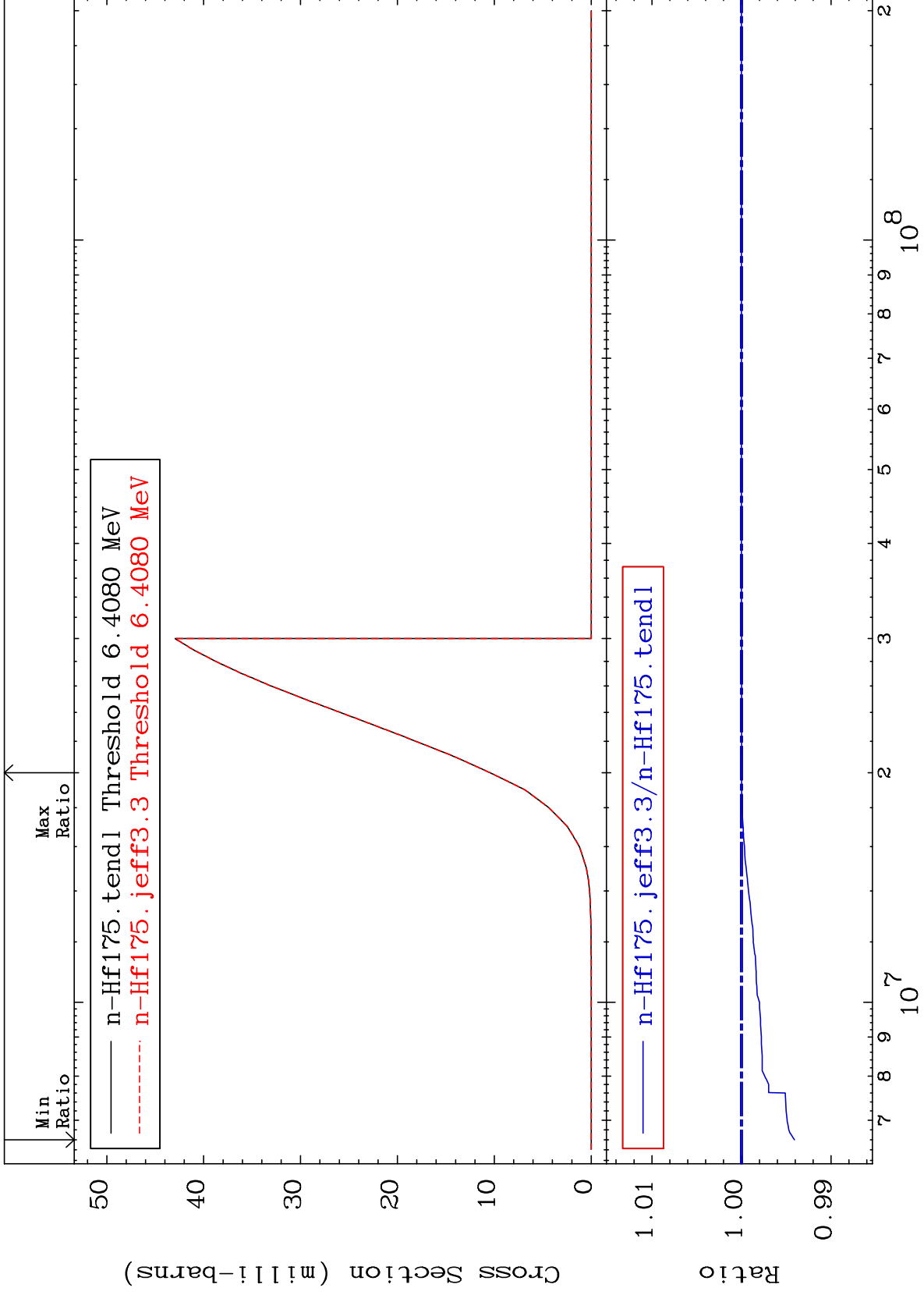
72-Hf-175

MAT 7228

(n,n') p:71-Lu-174m3

72-Hf-175

Radionuclide Production Cross Section -0.591 To 0.000 %

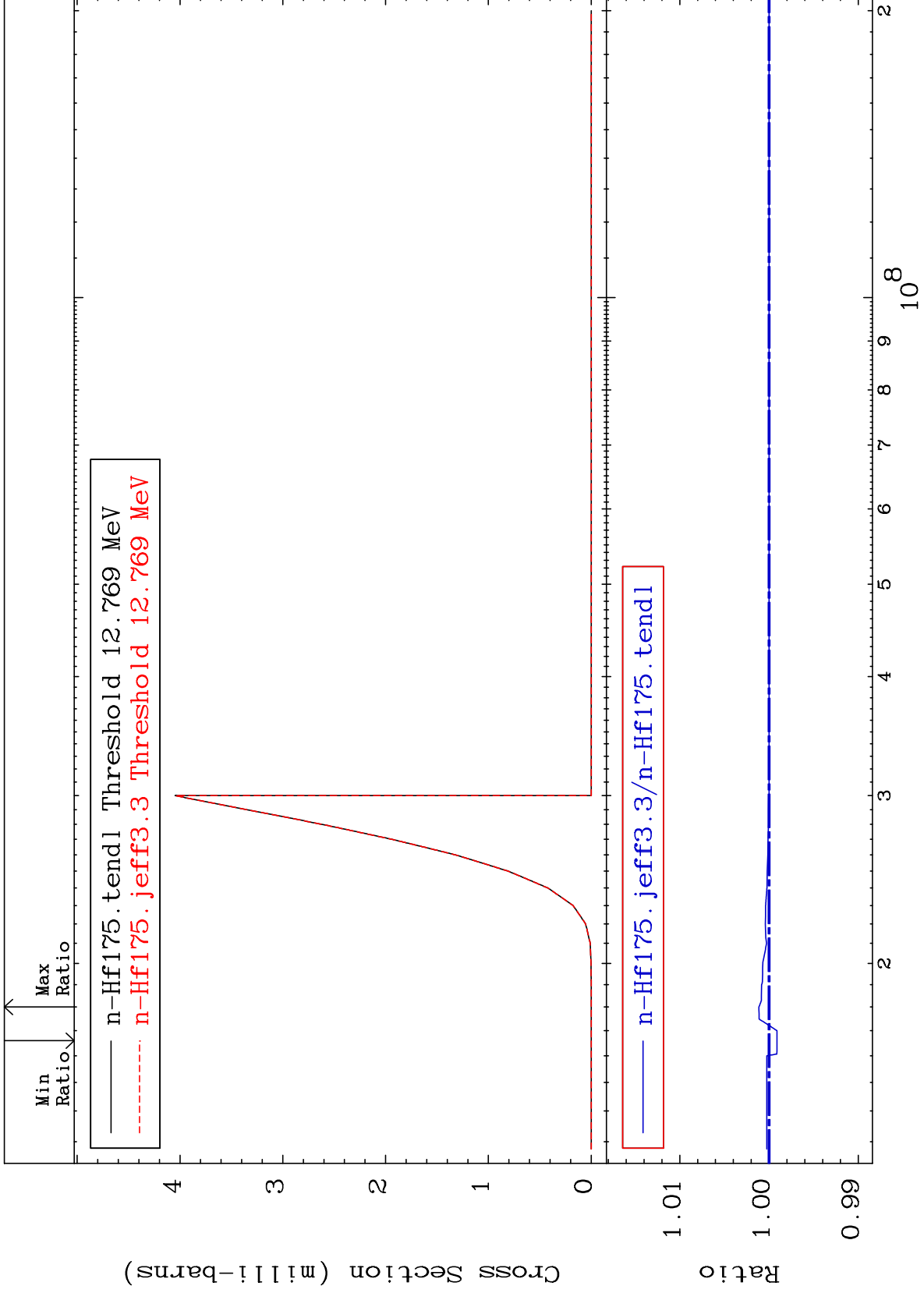


85

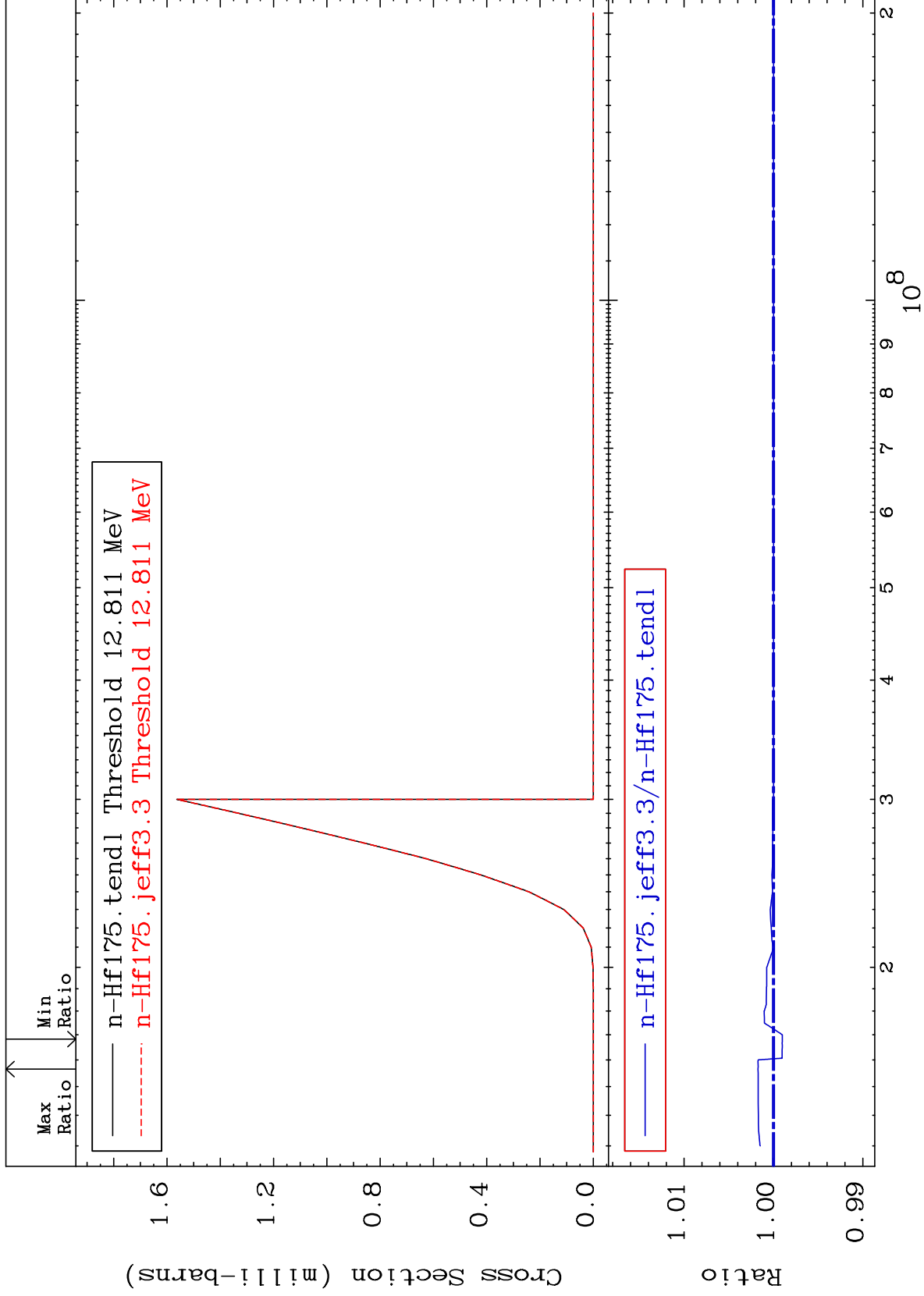
Incident Energy (eV)

72-Hf-175

Radionuclide Production Cross Section -0.088 To 0.113 %



Radionuclide Production Cross Section -0.098 To 0.173 %

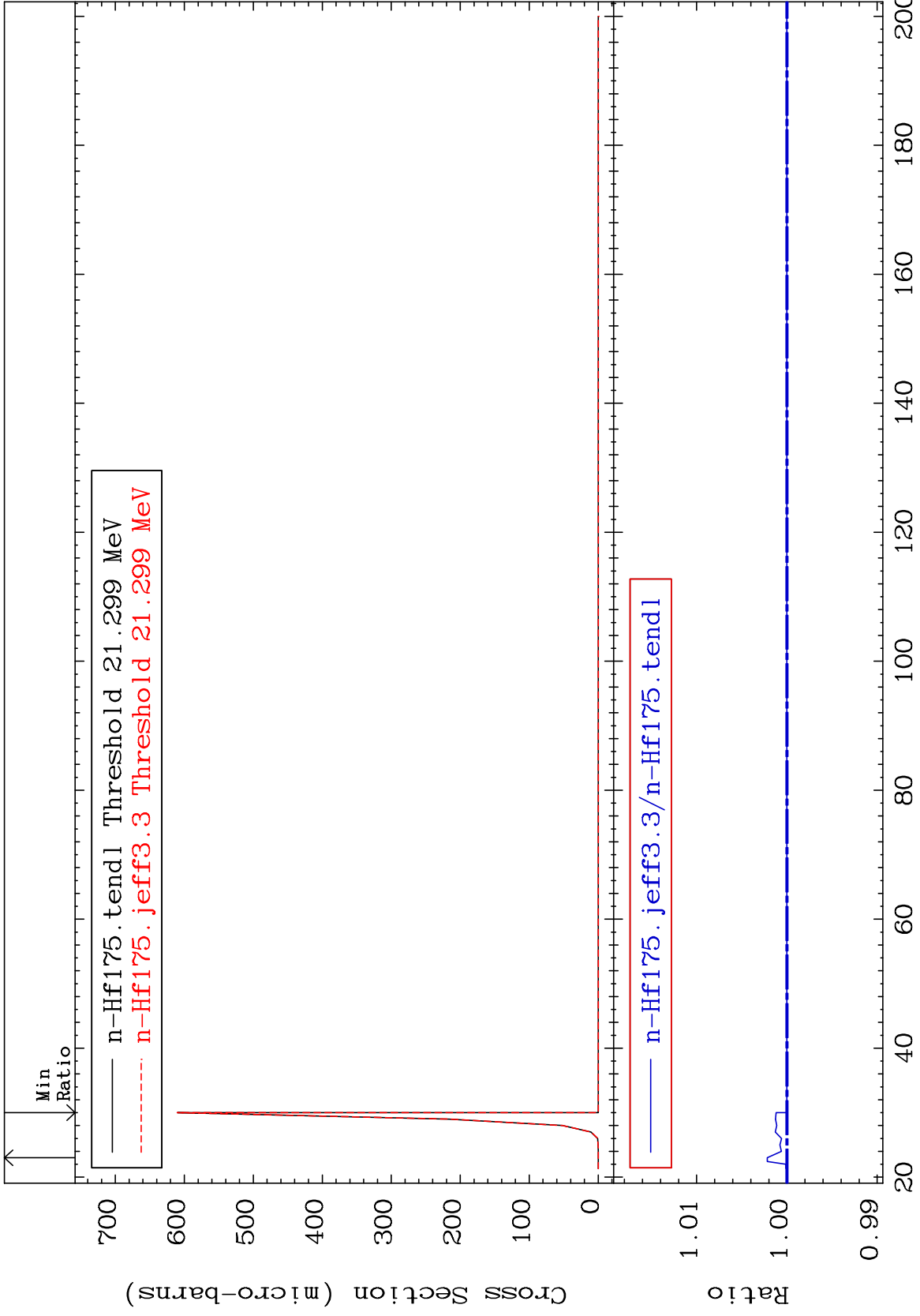


MAT 7228

(n,3n) p:71-Lu-172g

72-Hf-175

Radionuclide Production Cross Section 0.000 To 0.218 %

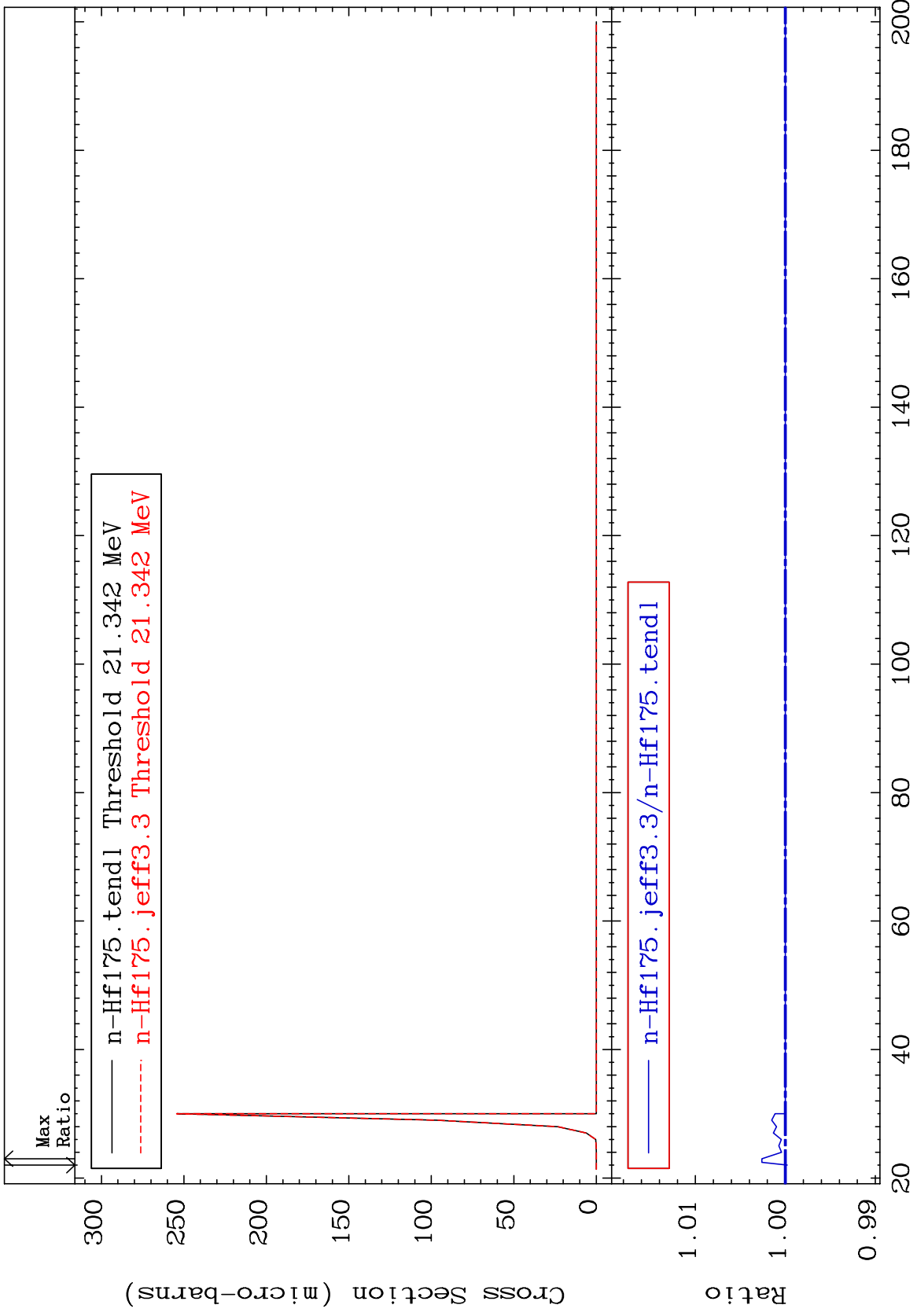


MAT 7228

(n,3n) p:71-Lu-172m1

72-Hf-175

Radionuclide Production Cross Section -0.020 To 0.261 %

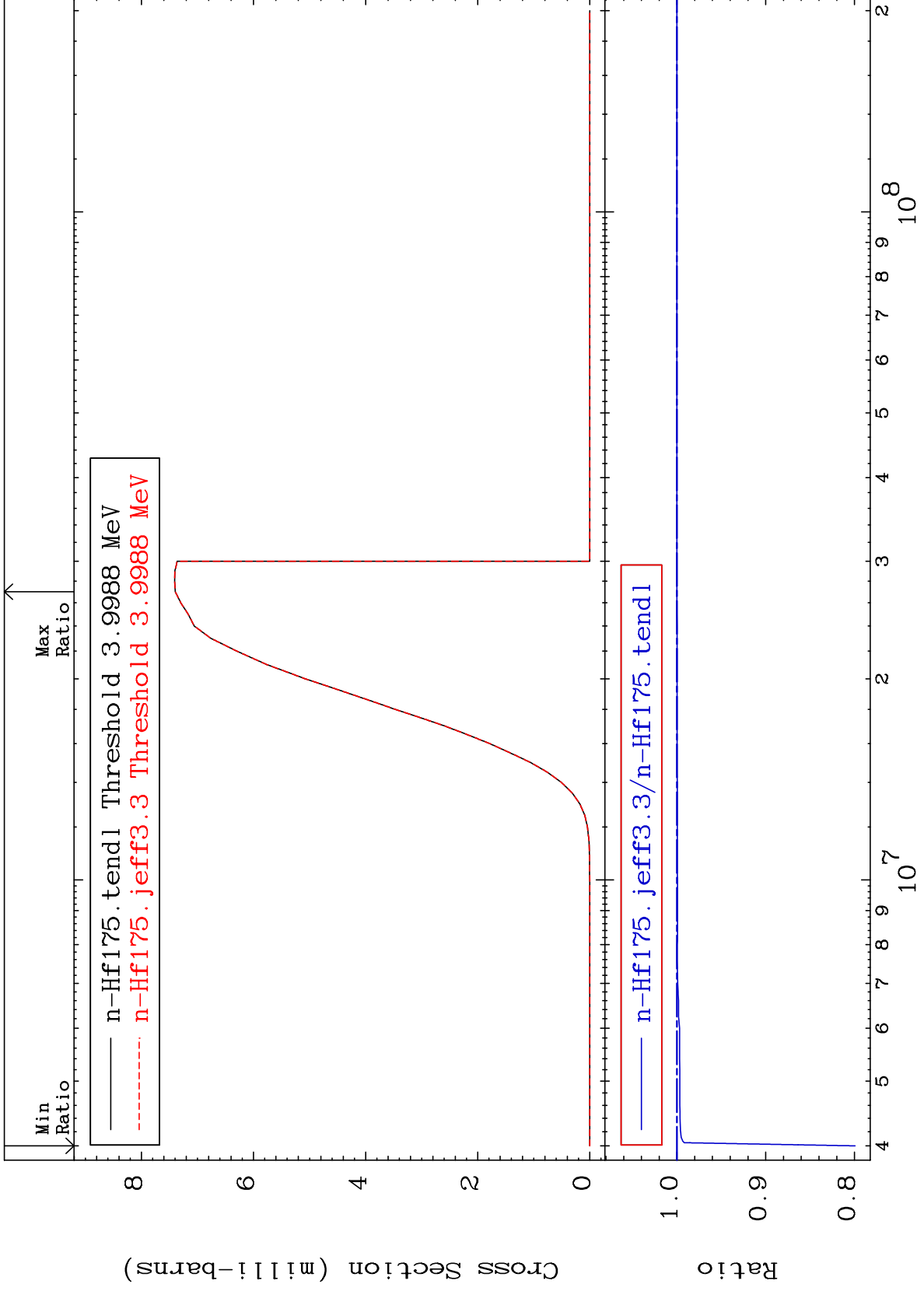


MAT 7228

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

72-Hf-175

Radionuclide Production Cross Section -20.07 To 0.002 %



90

Incident Energy (eV)

72-Hf-175

MAT 7228

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

72-Hf-175

Radionuclide Production Cross Section -0.694 To 0.000 %

