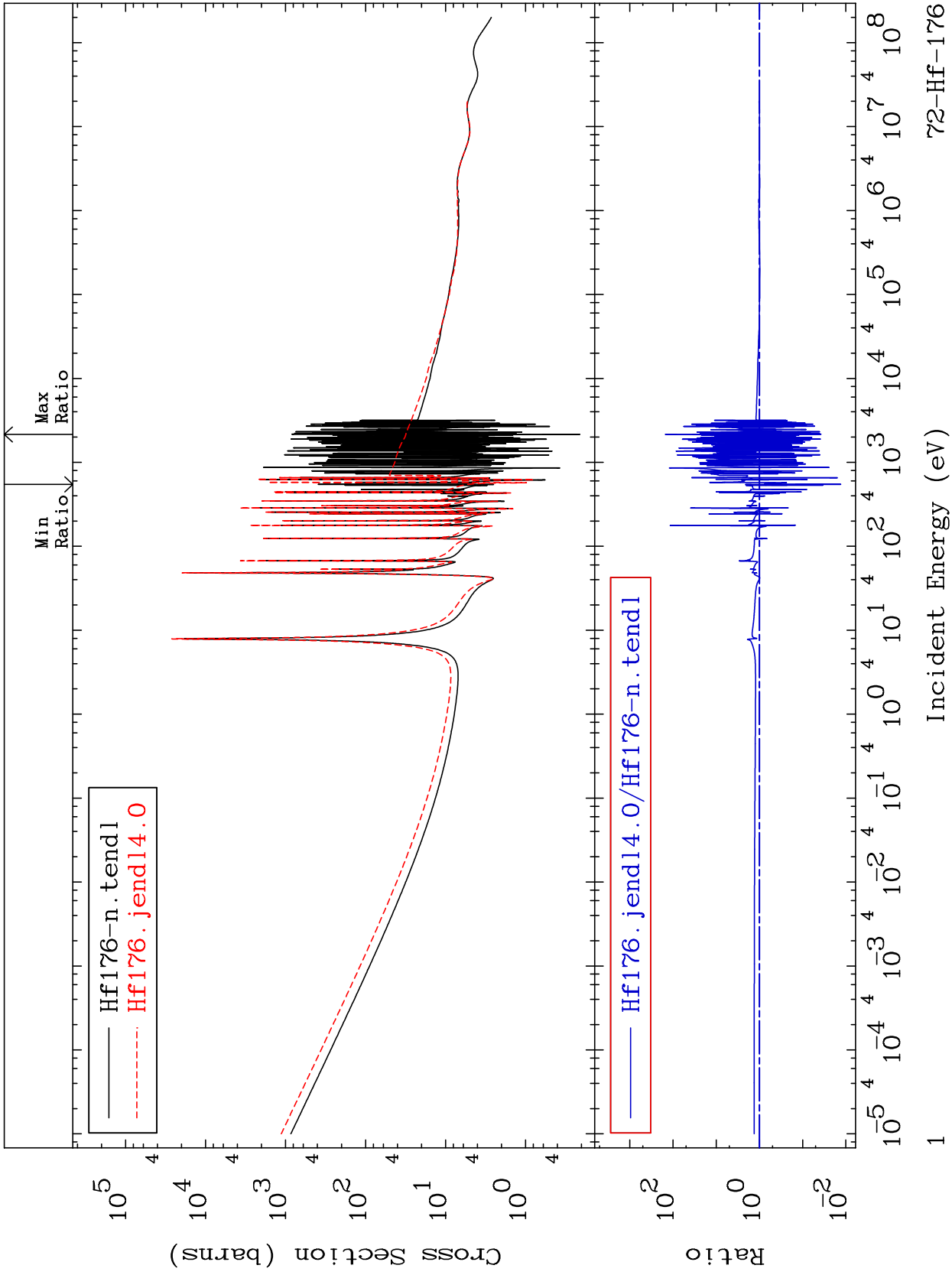


MAT 7231

Total
Cross Section

72-Hf-176
-98.68 To 9999. %



72-Hf-176

Incident Energy (eV)

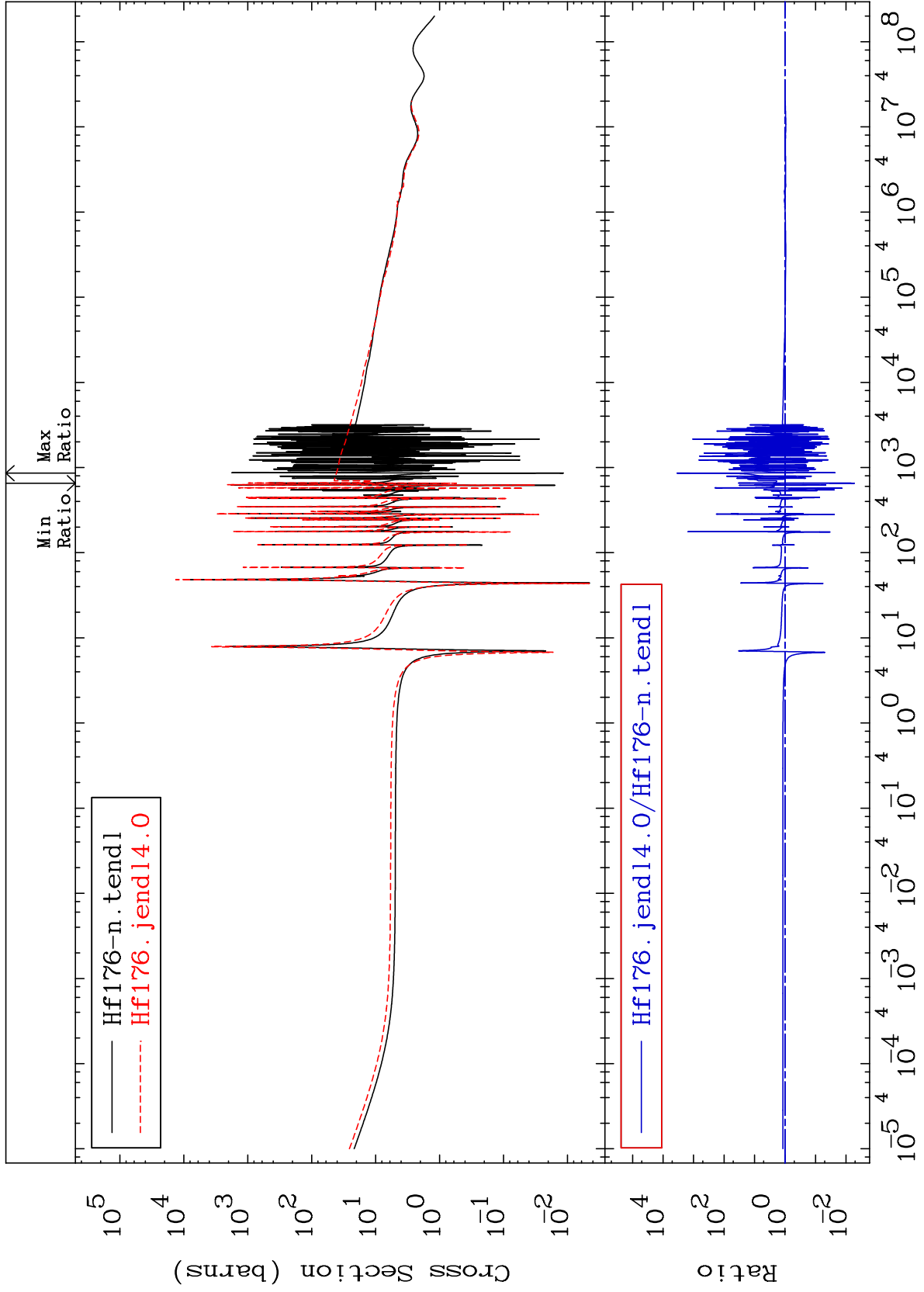
MAT 7231

Elastic

Cross Section

72-Hf-176

-99.47 To 9999. %



2

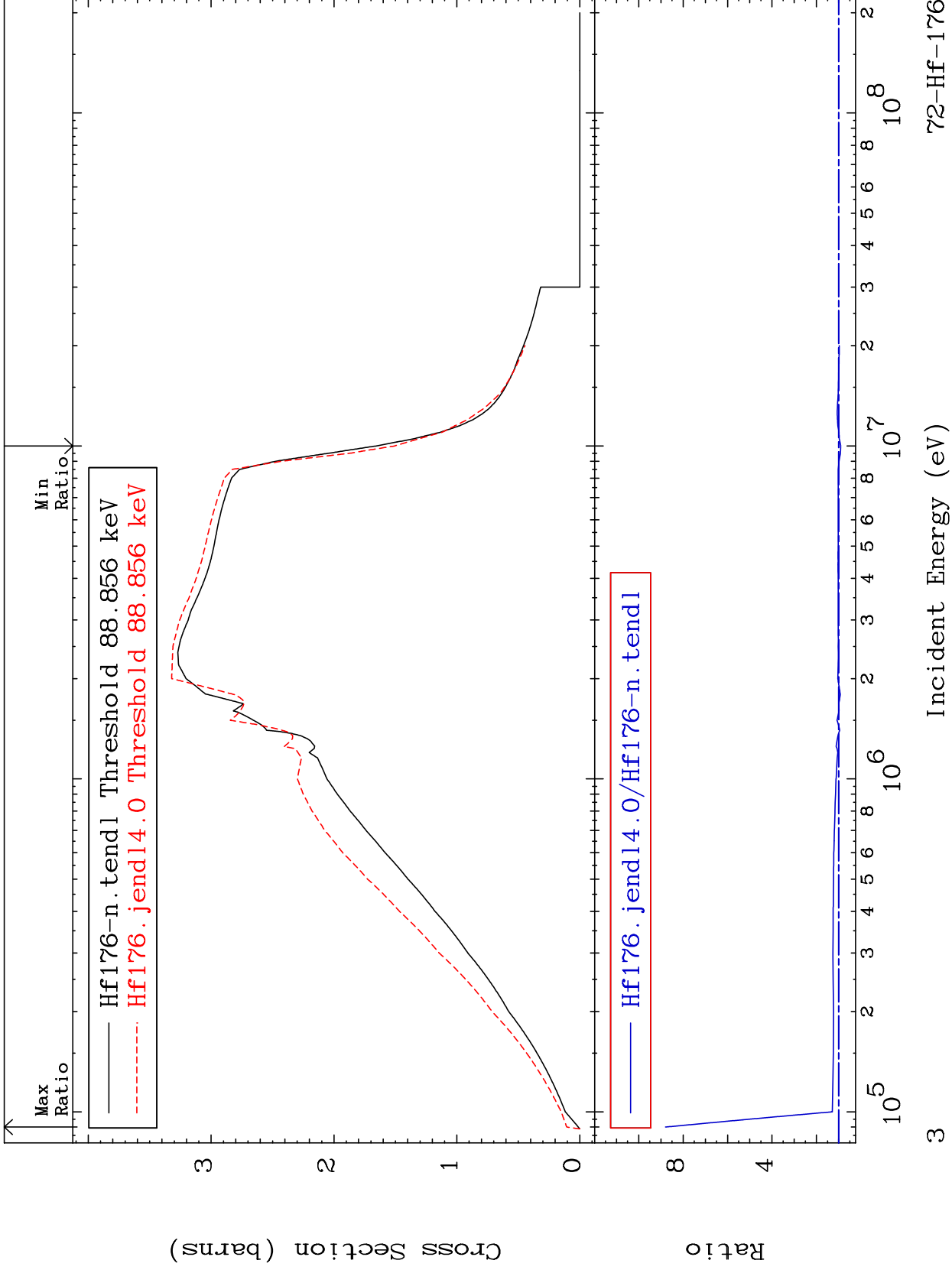
Incident Energy (eV)

72-Hf-176

MAT 7231

Inelastic
Cross Section

72-Hf-176
-9.075 To 779.5 %



MAT 7231

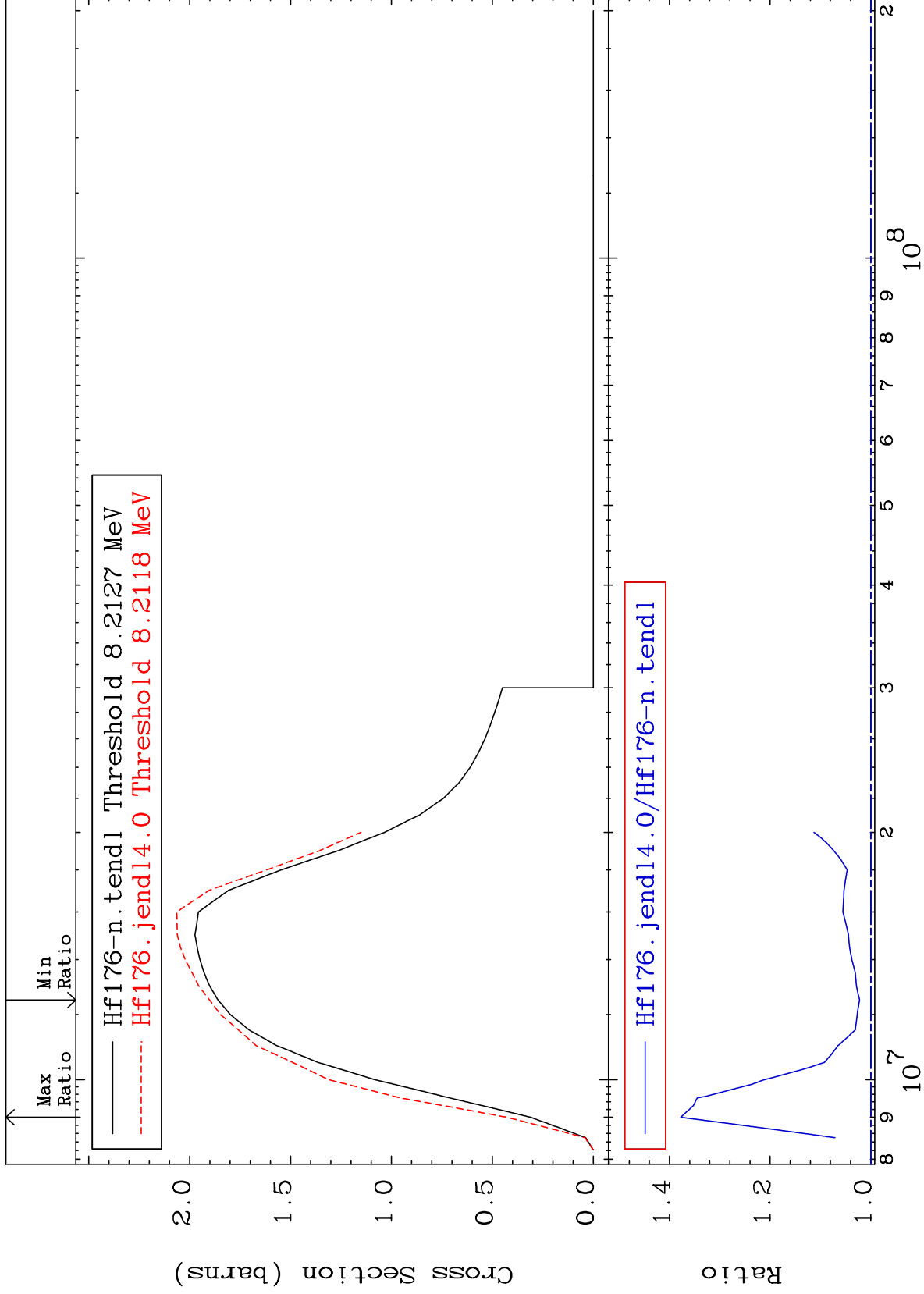
(n,2n)

72-Hf-176

Cross Section

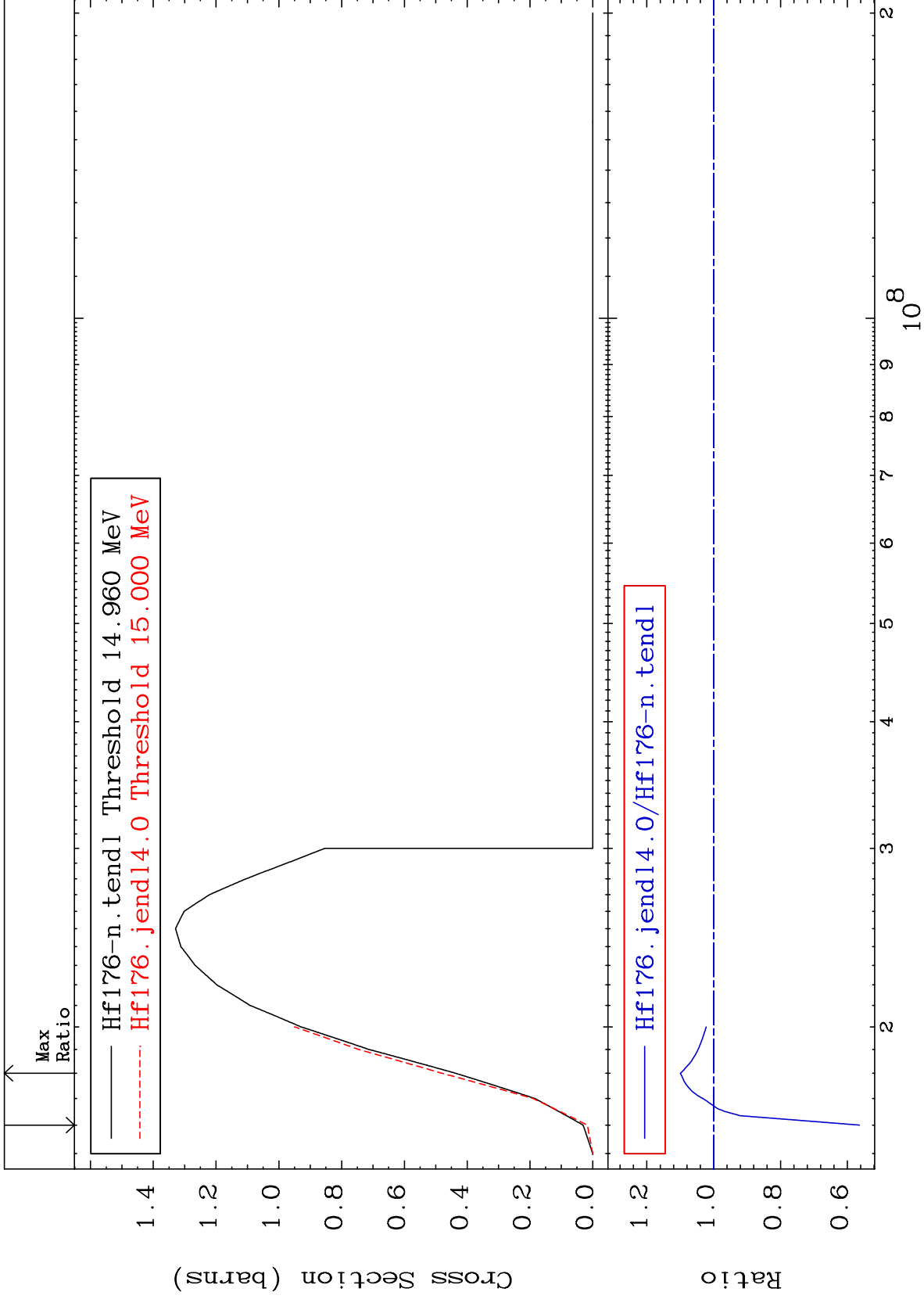
2.226

To 37.75 %



72-Hf-176

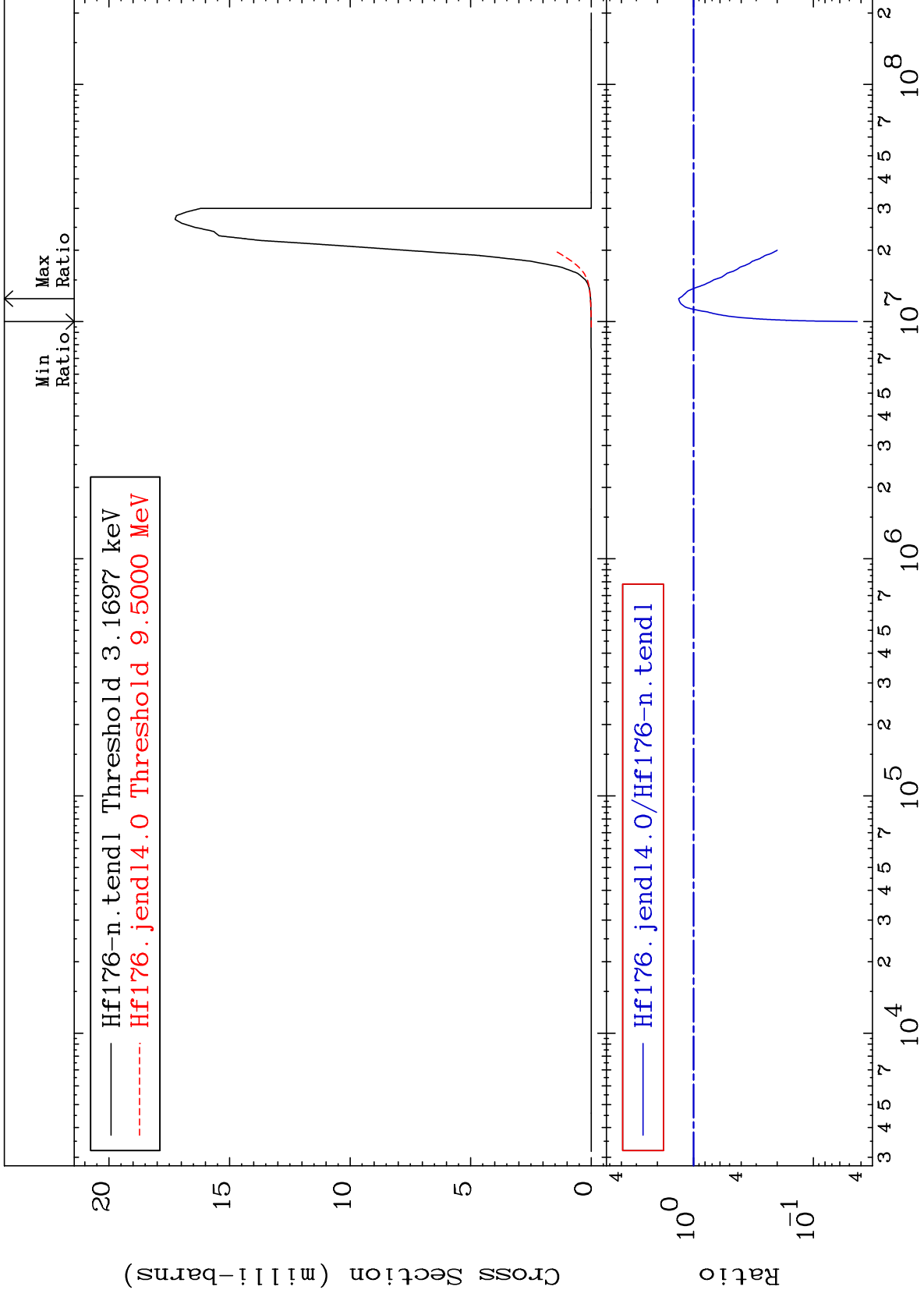
4



MAT 7231

$(n, n') \alpha$
Cross Section

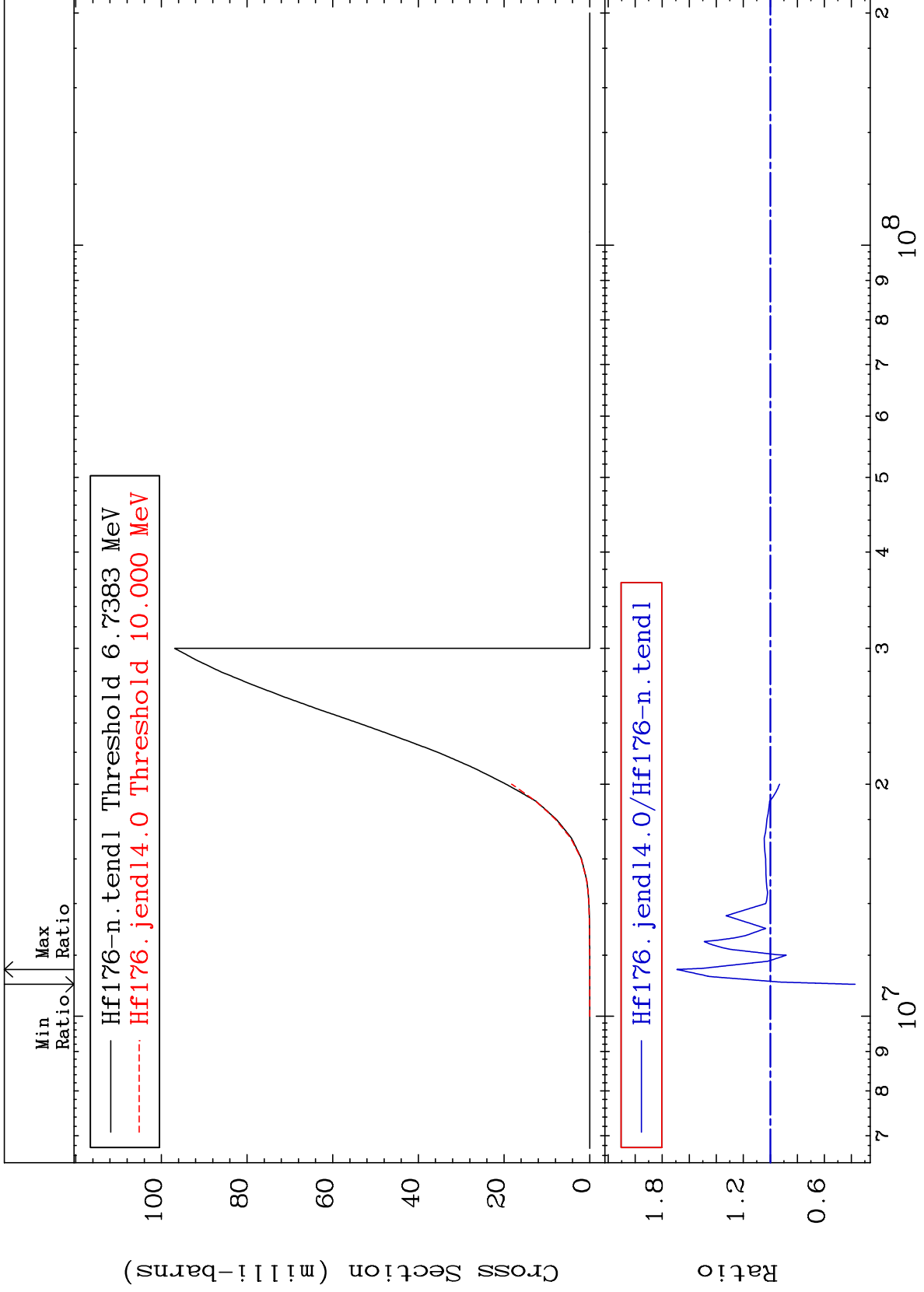
⁷²Hf-¹⁷⁶
-95.70 To 33.04 %



MAT 7231

(n,n') p
Cross Section

72-Hf-176
-62.72 To 69.14 %



7

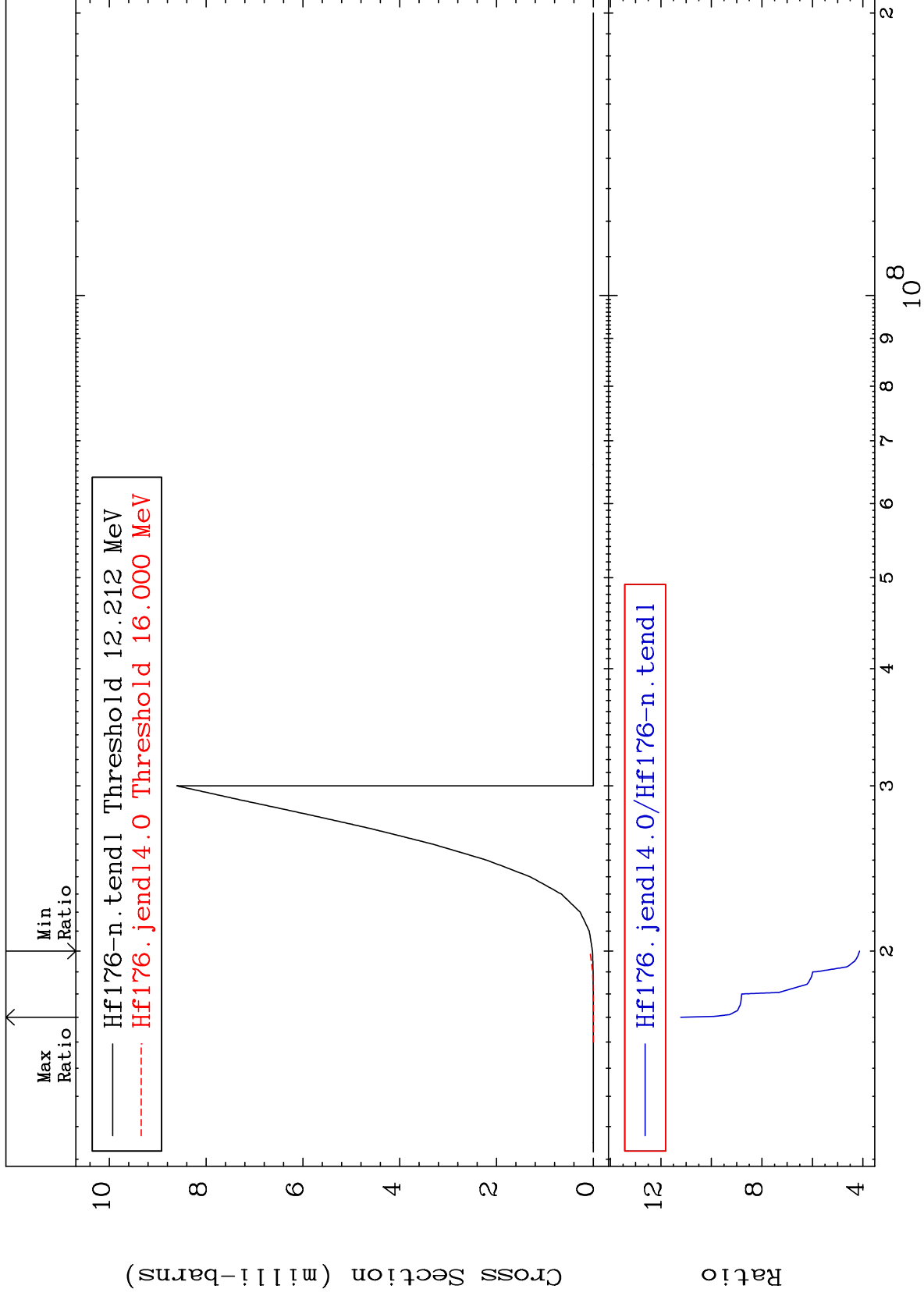
Incident Energy (eV)

72-Hf-176

MAT 7231

(n,n') d
Cross Section

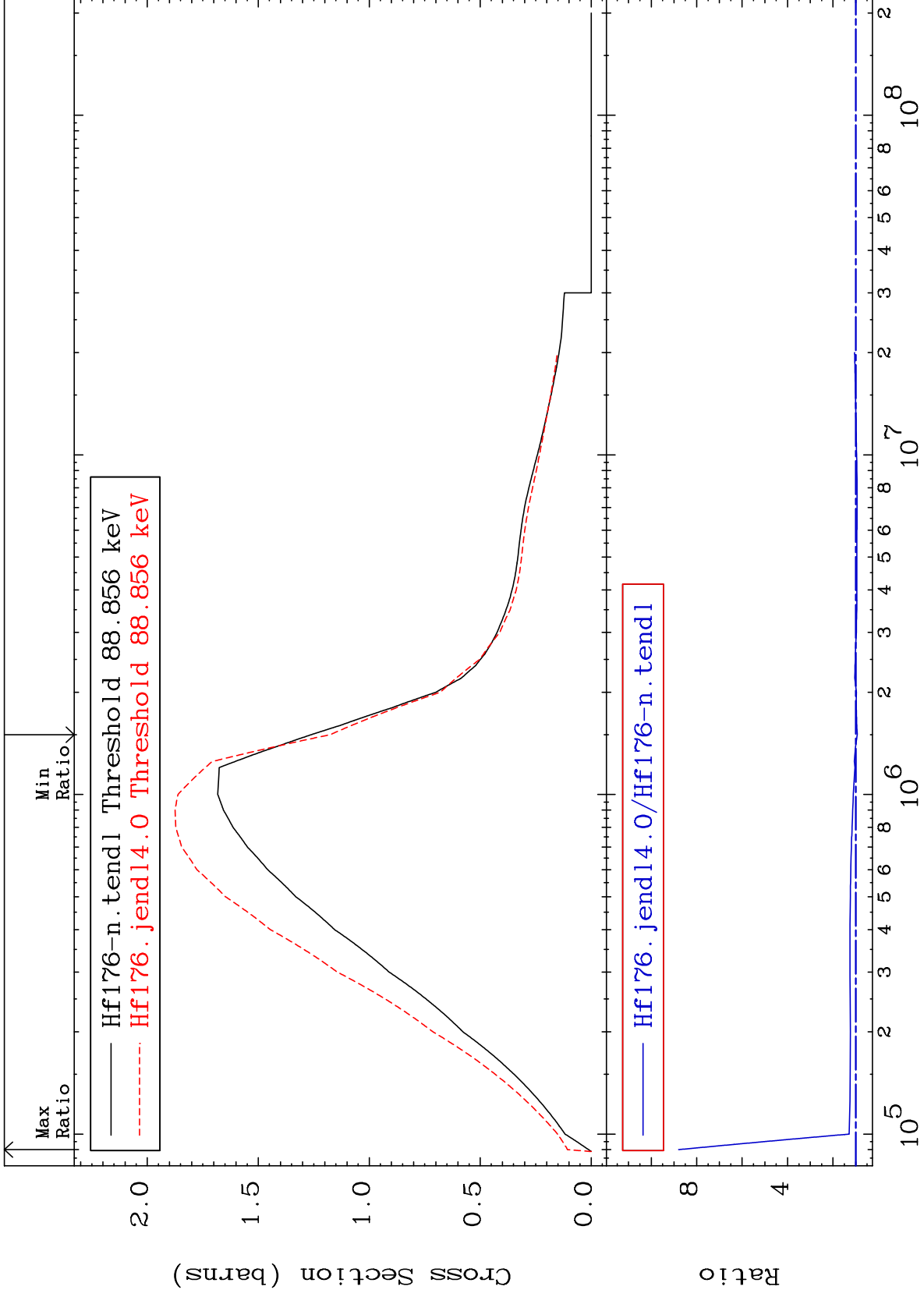
72-Hf-176
313.3 To 1021. %



MAT 7231

88.35 keV (n,n') Level
Cross Section

72-Hf-176
-6.751 To 779.5 %



9

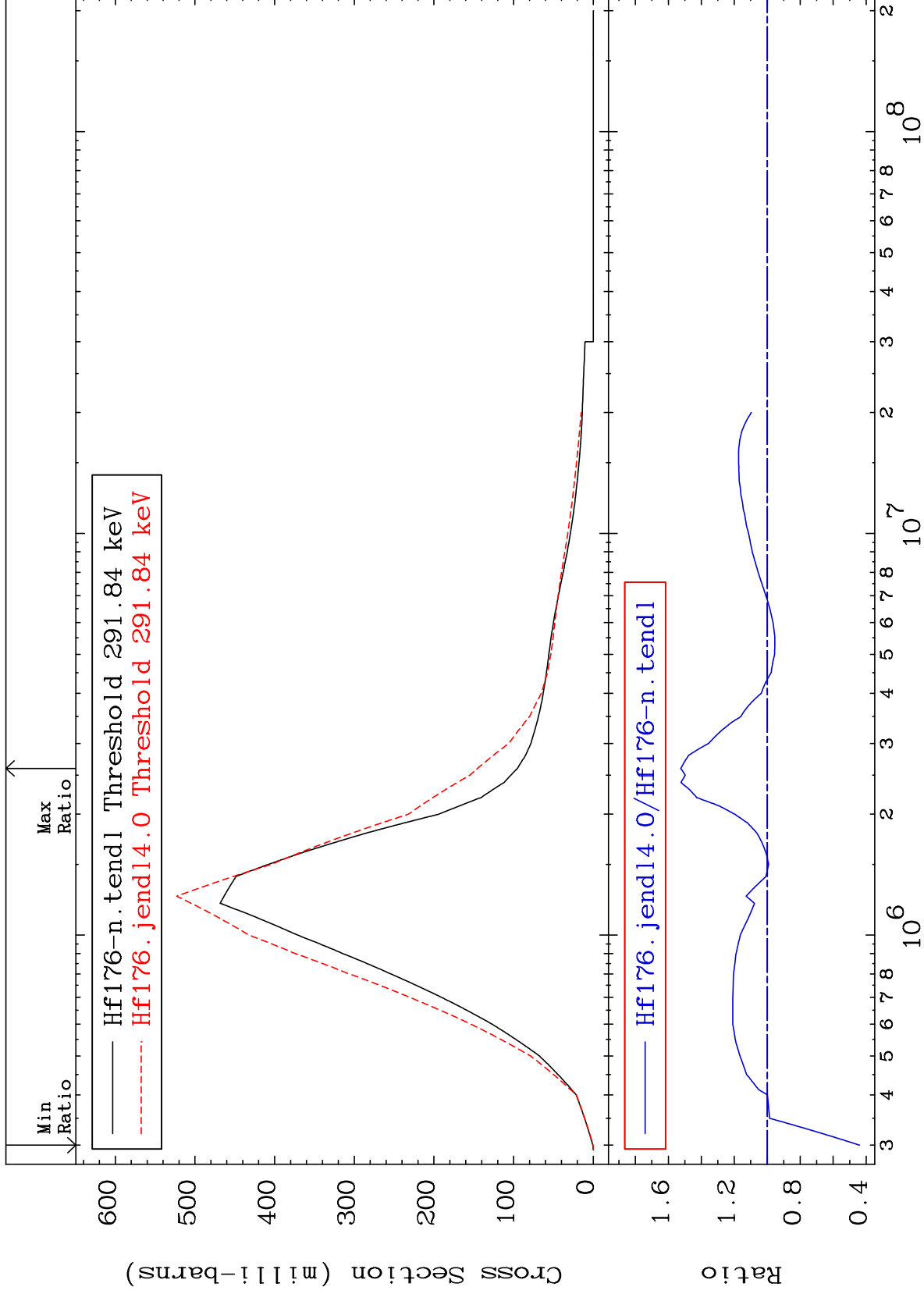
Incident Energy (eV)

72-Hf-176

MAT 7231

290.2 keV (n,n') Level
Cross Section

72-Hf-176
-56.00 To 52.46 %



10

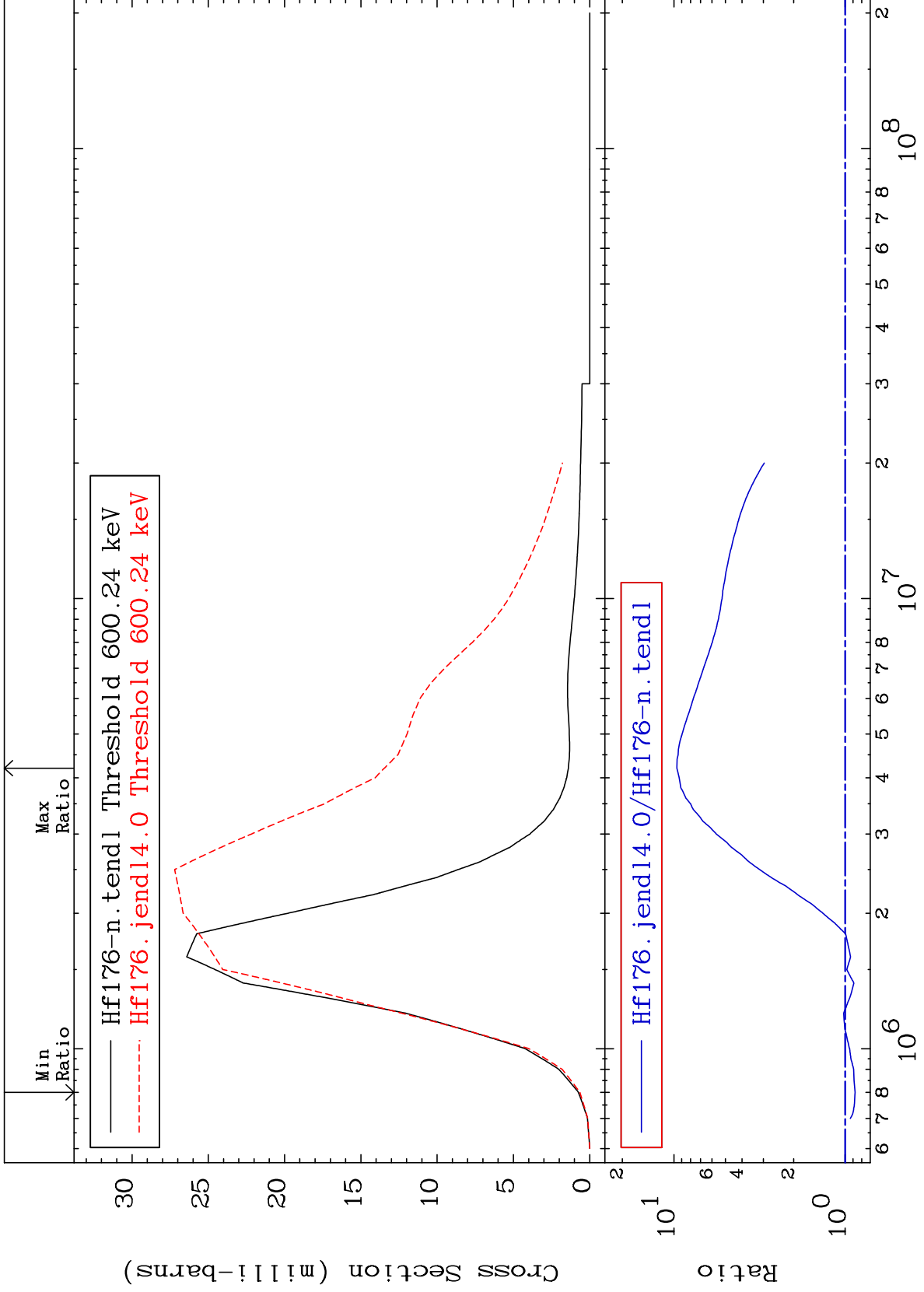
Incident Energy (eV)

72-Hf-176

MAT 7231

596.8 keV (n,n') Level
Cross Section

72-Hf-176
-12.45 To 860.3 %



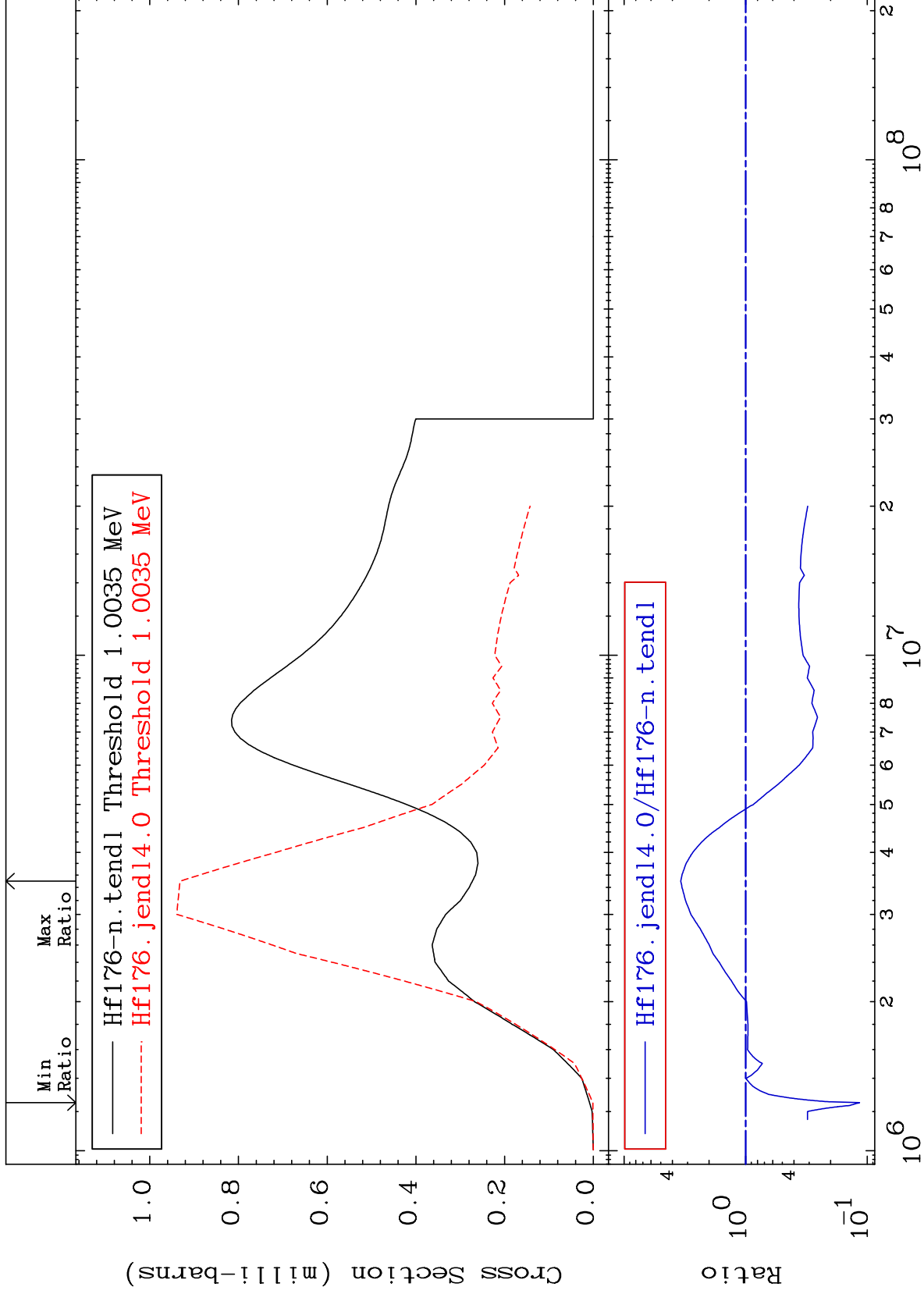
11

72-Hf-176

MAT 7231

997.7 keV (n,n') Level
Cross Section

72-Hf-176
-88.43 To 241.7 %

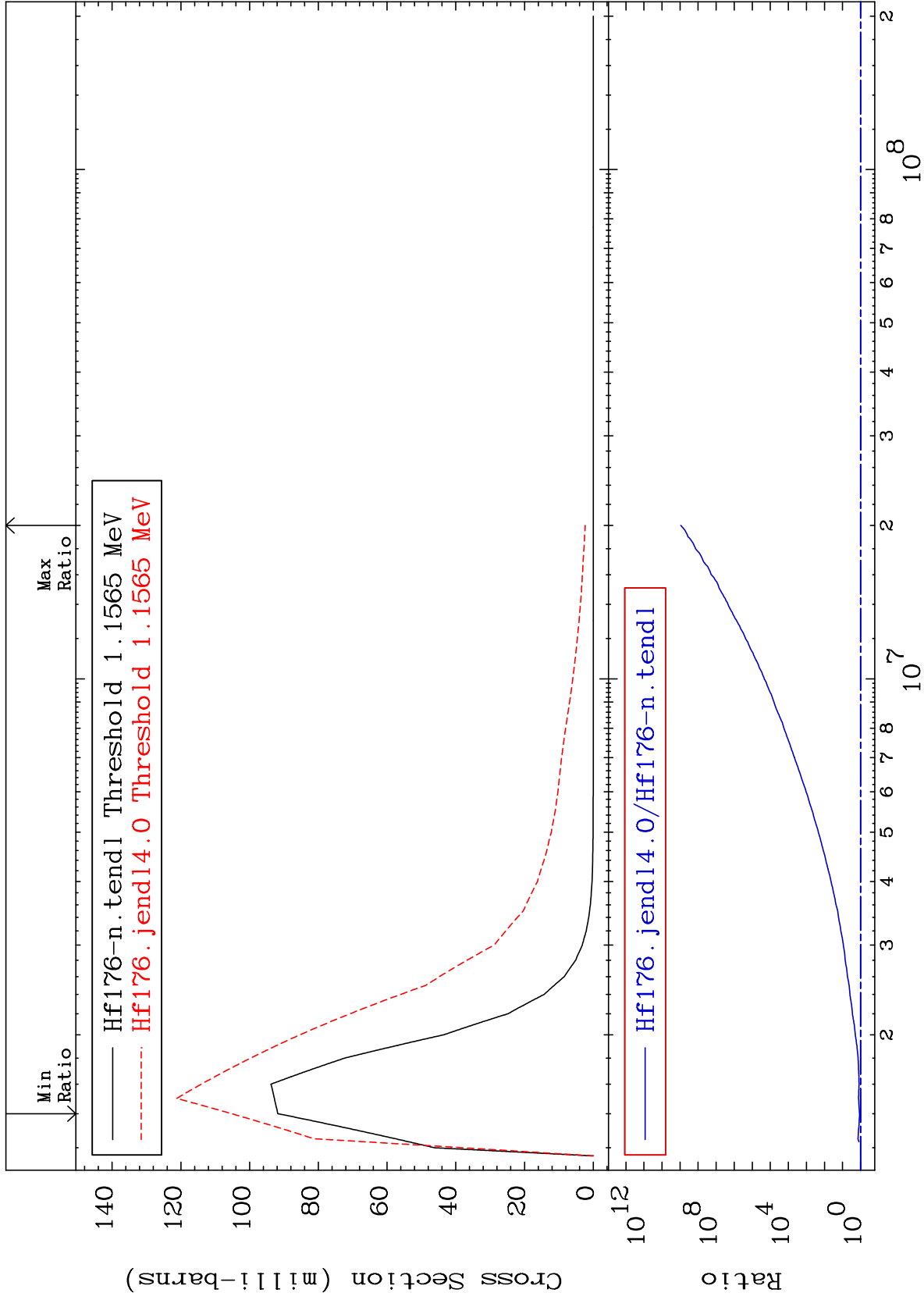


Incident Energy (eV)

72-Hf-176

12

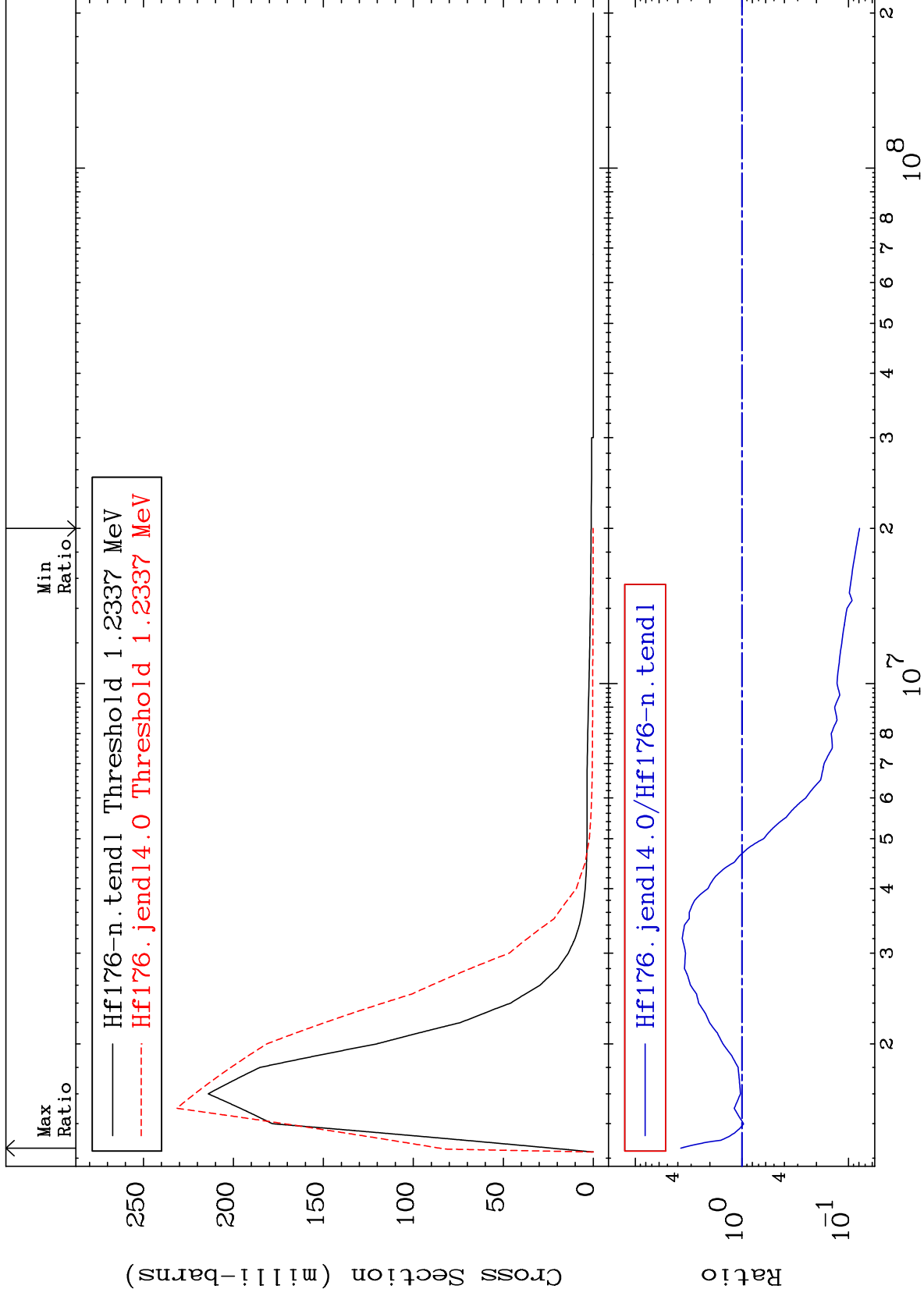
MAT 7231 1.150 MeV (n,n') Level Cross Section 72-Hf-176 14.64 To 9999. %



MAT 7231

1.227 MeV (n,n') Level
Cross Section

72-Hf-176
-92.10 To 275.1 %



14

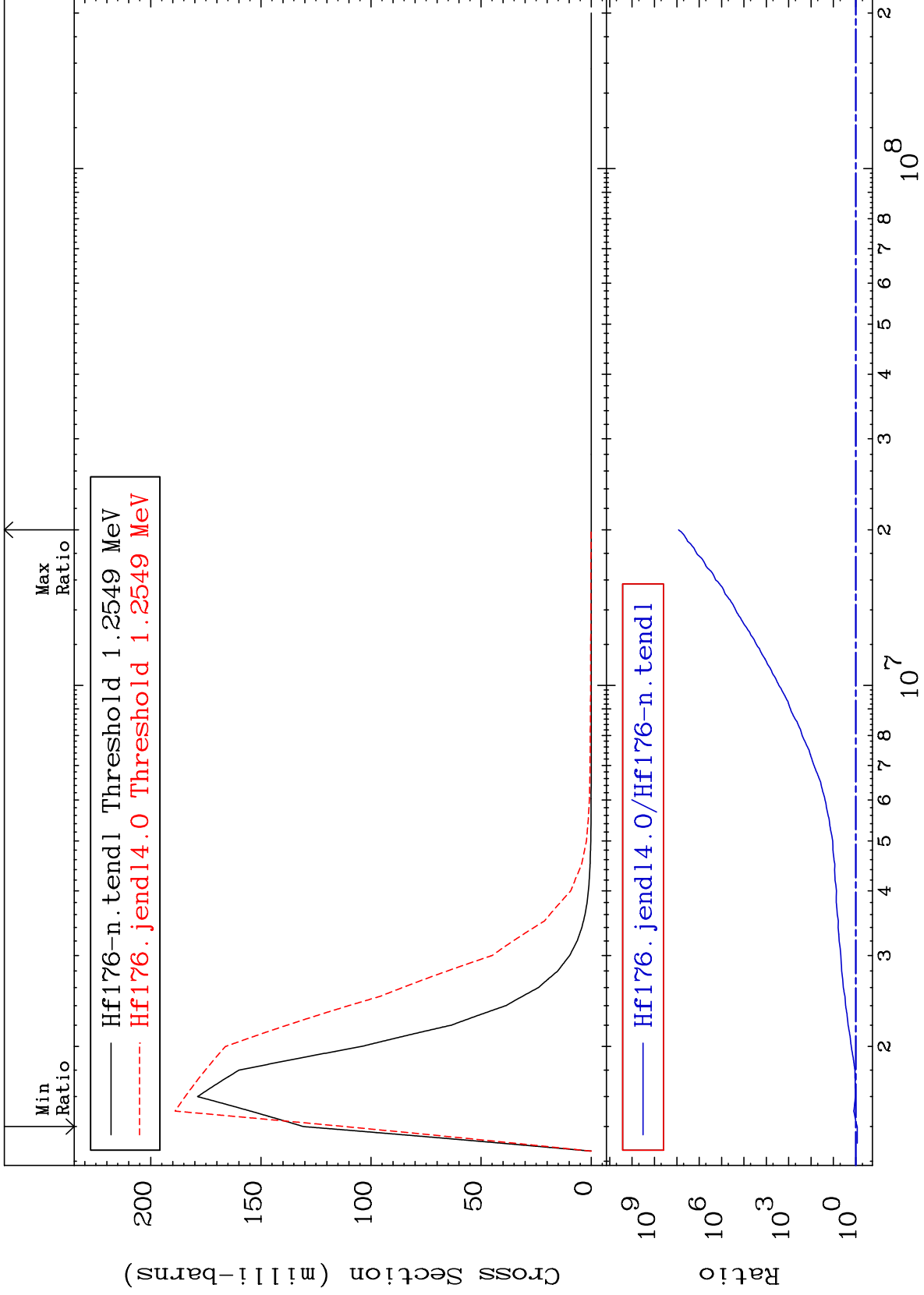
Incident Energy (eV)

72-Hf-176

MAT 7231

1.248 MeV (n,n') Level
Cross Section

72-Hf-176
-14.38 To 9999. %



15

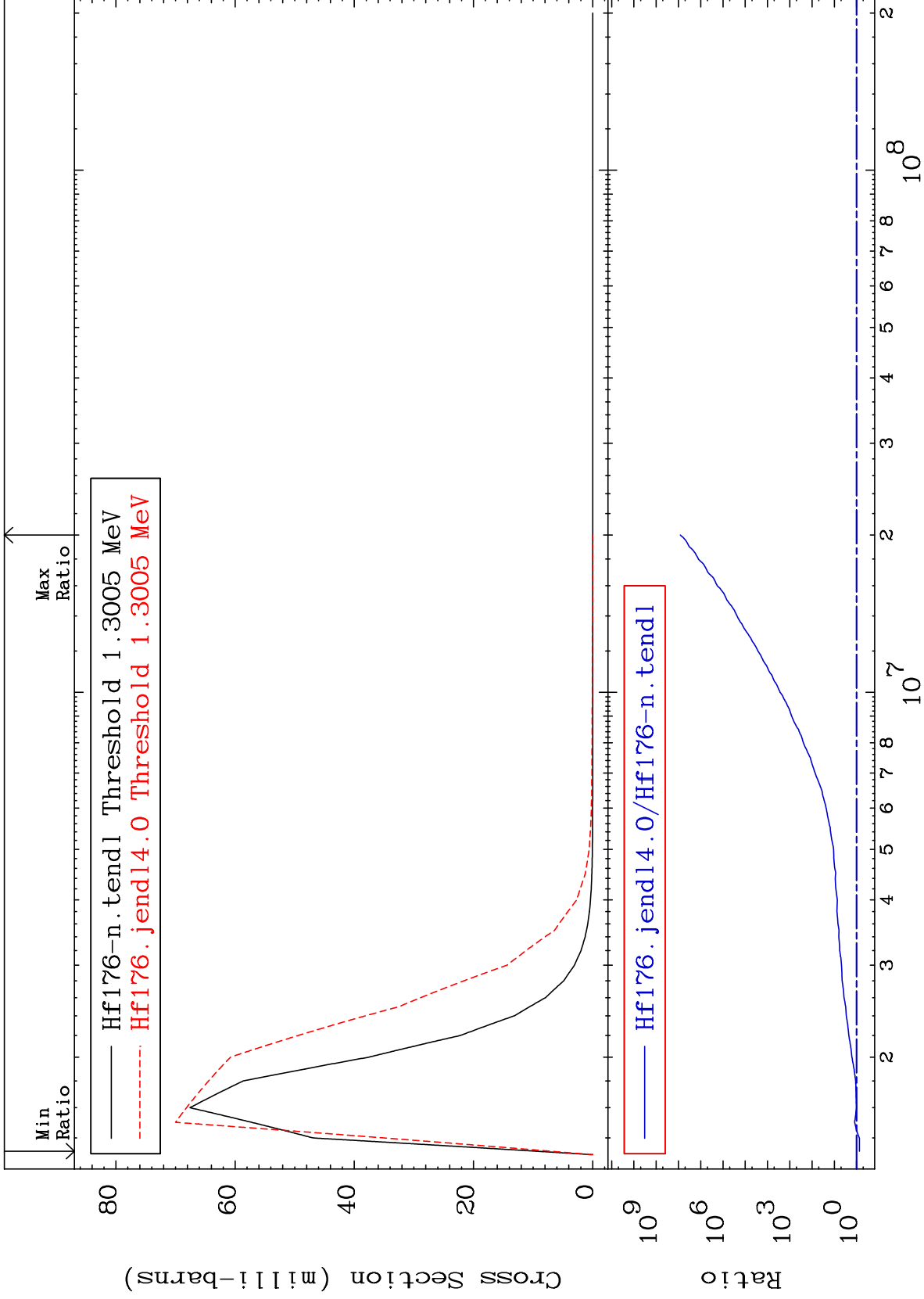
Incident Energy (eV)

72-Hf-176

MAT 7231

1.293 MeV (n,n') Level
Cross Section

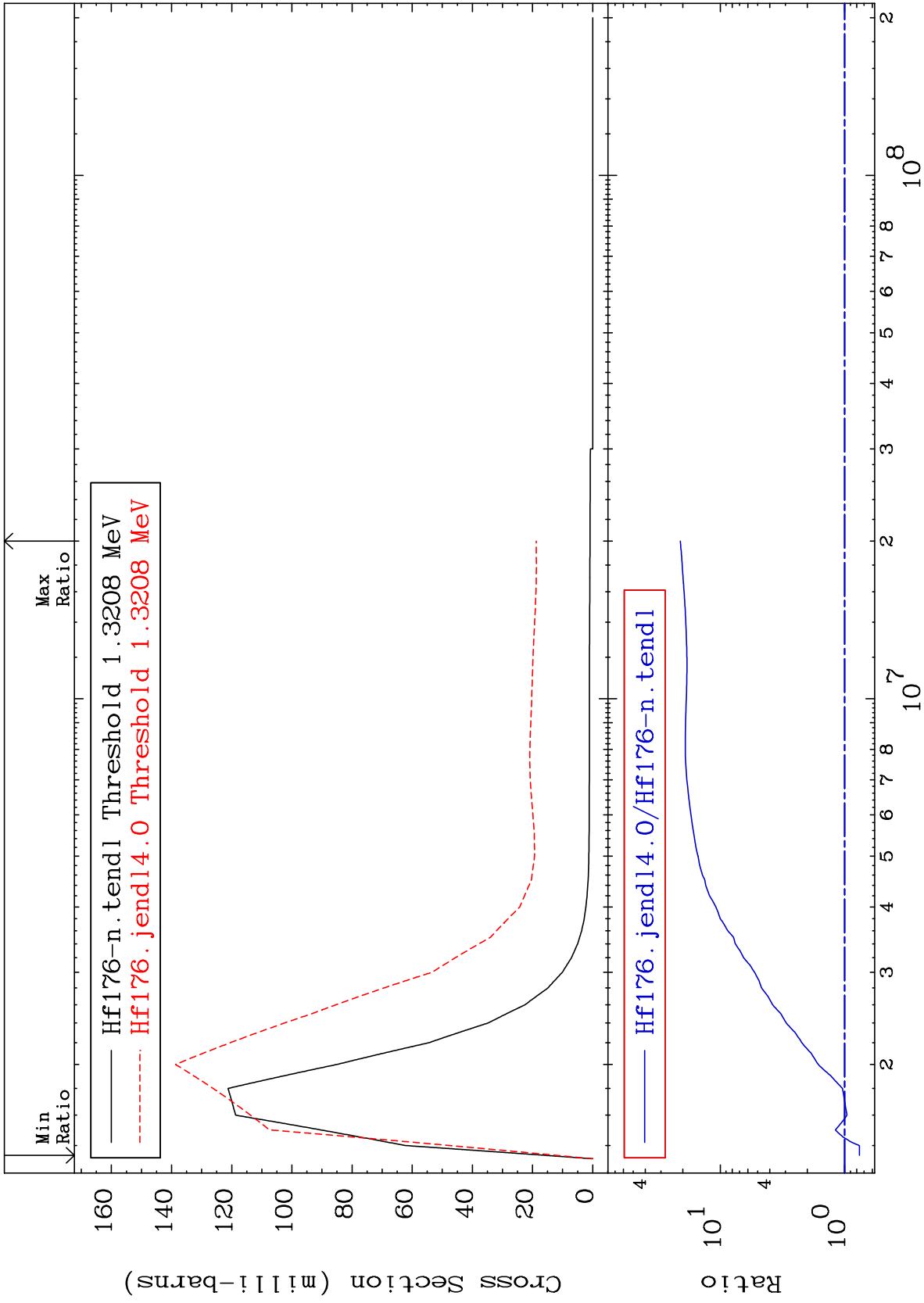
72-Hf-176
-25.55 To 9999. %



MAT 7231

1.313 MeV (n,n') Level
Cross Section

72-Hf-176
-23.88 To 1993. %



17

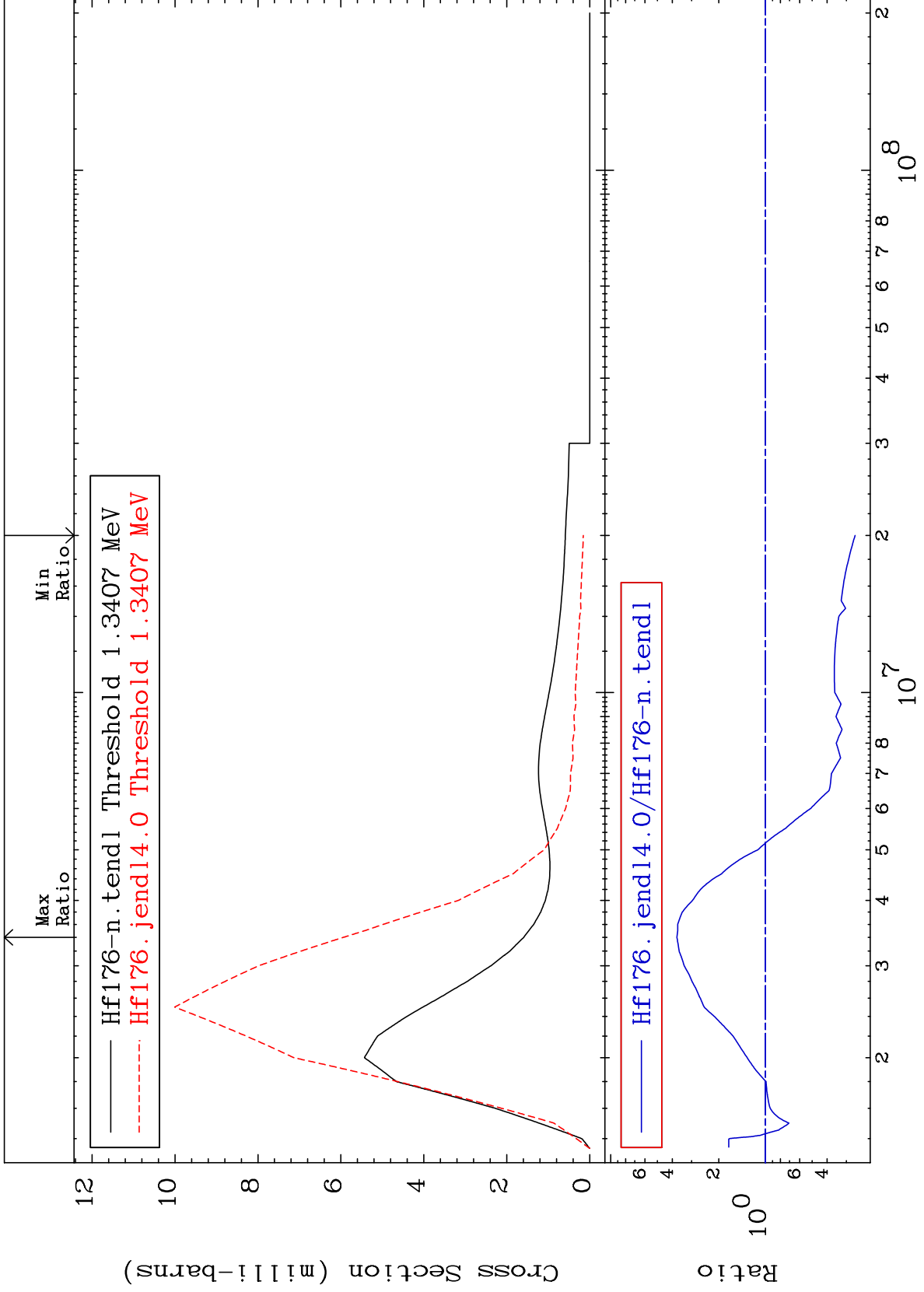
Incident Energy (eV)

72-Hf-176

MAT 7231

1.333 MeV (n,n') Level
Cross Section

72-Hf-176
-73.64 To 273.3 %



18

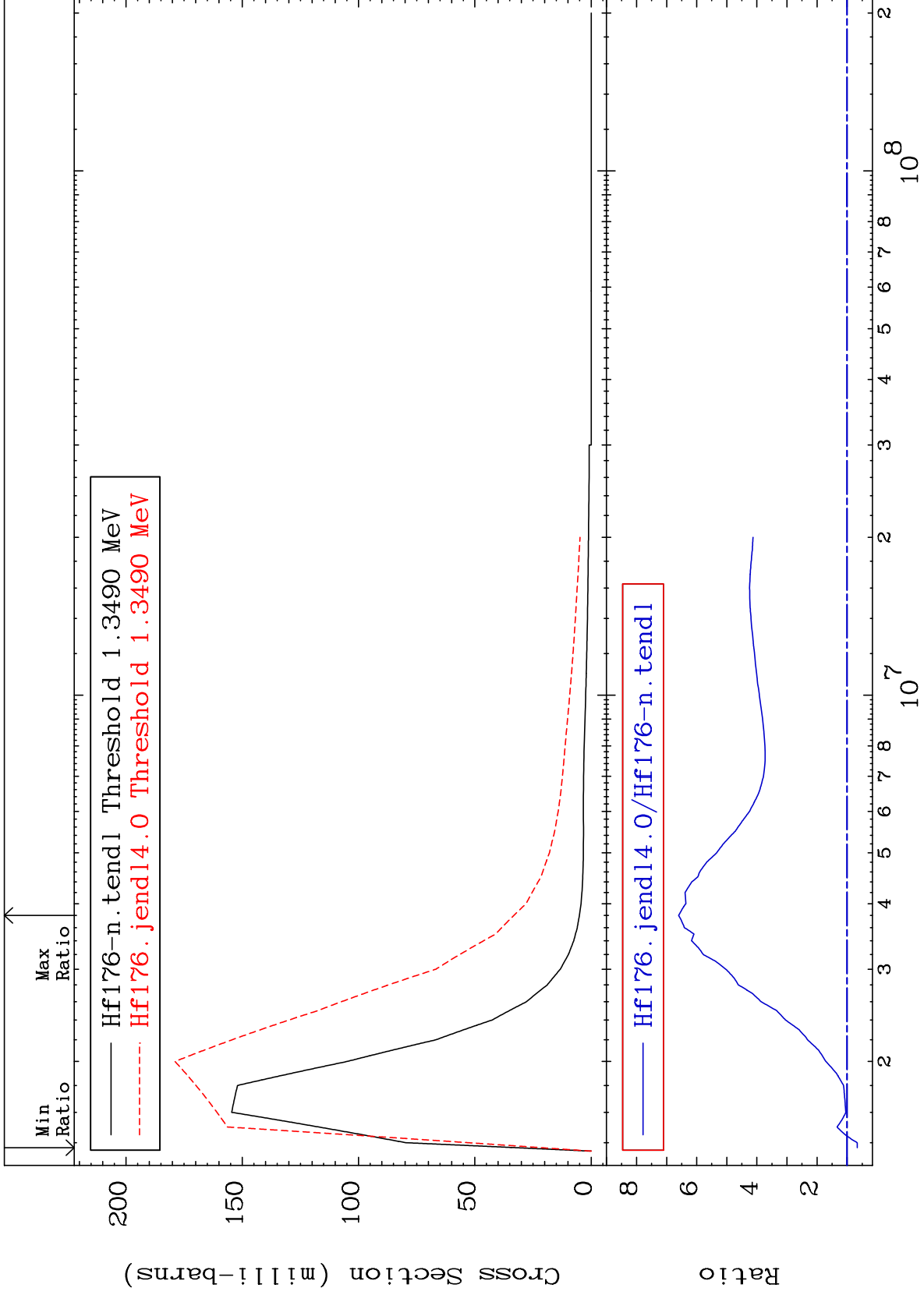
Incident Energy (eV)

72-Hf-176

MAT 7231

1.341 MeV (n,n') Level
Cross Section

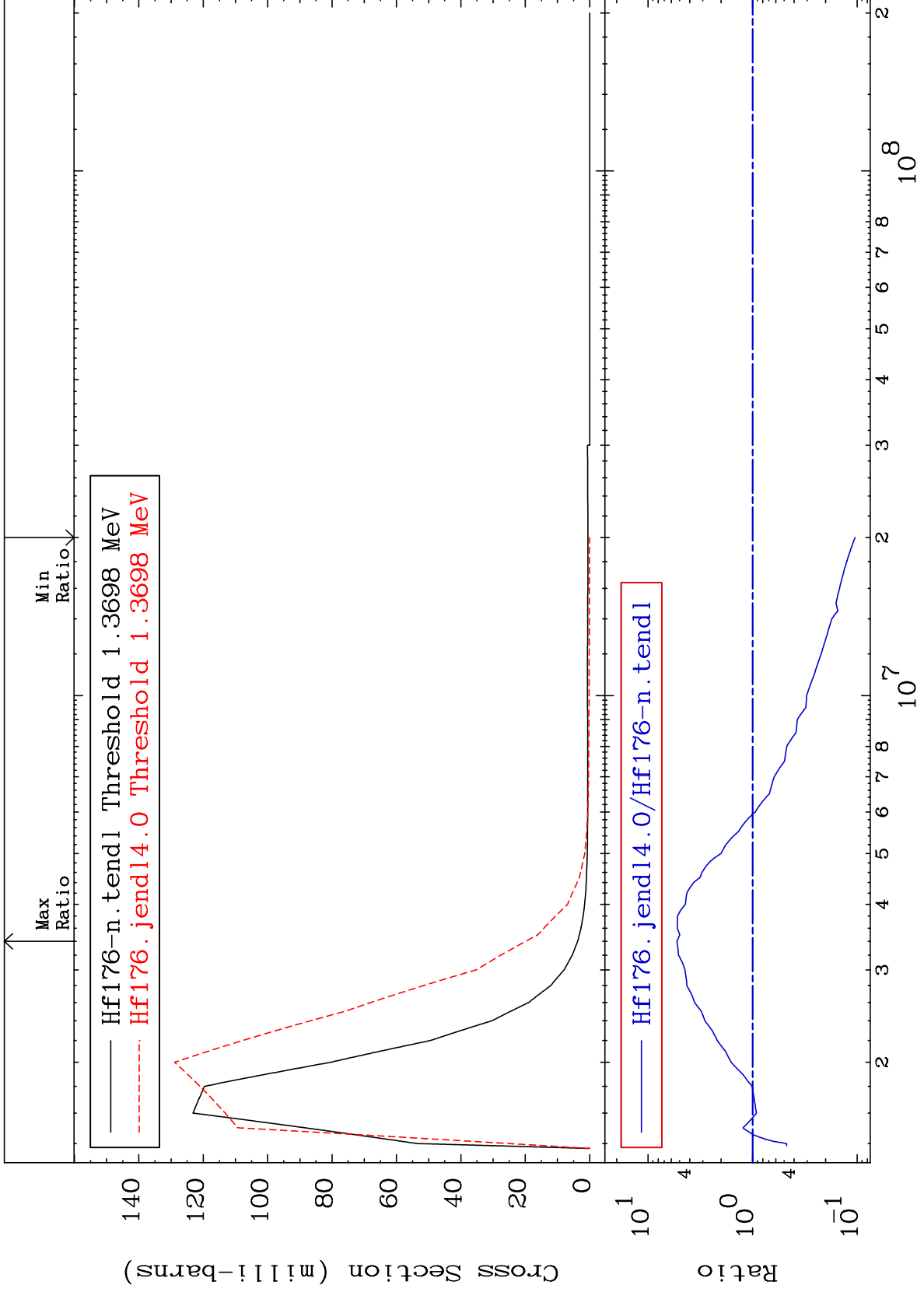
72-Hf-176
-33.75 To 560.1 %



MAT 7231

1.362 MeV (n,n') Level
Cross Section

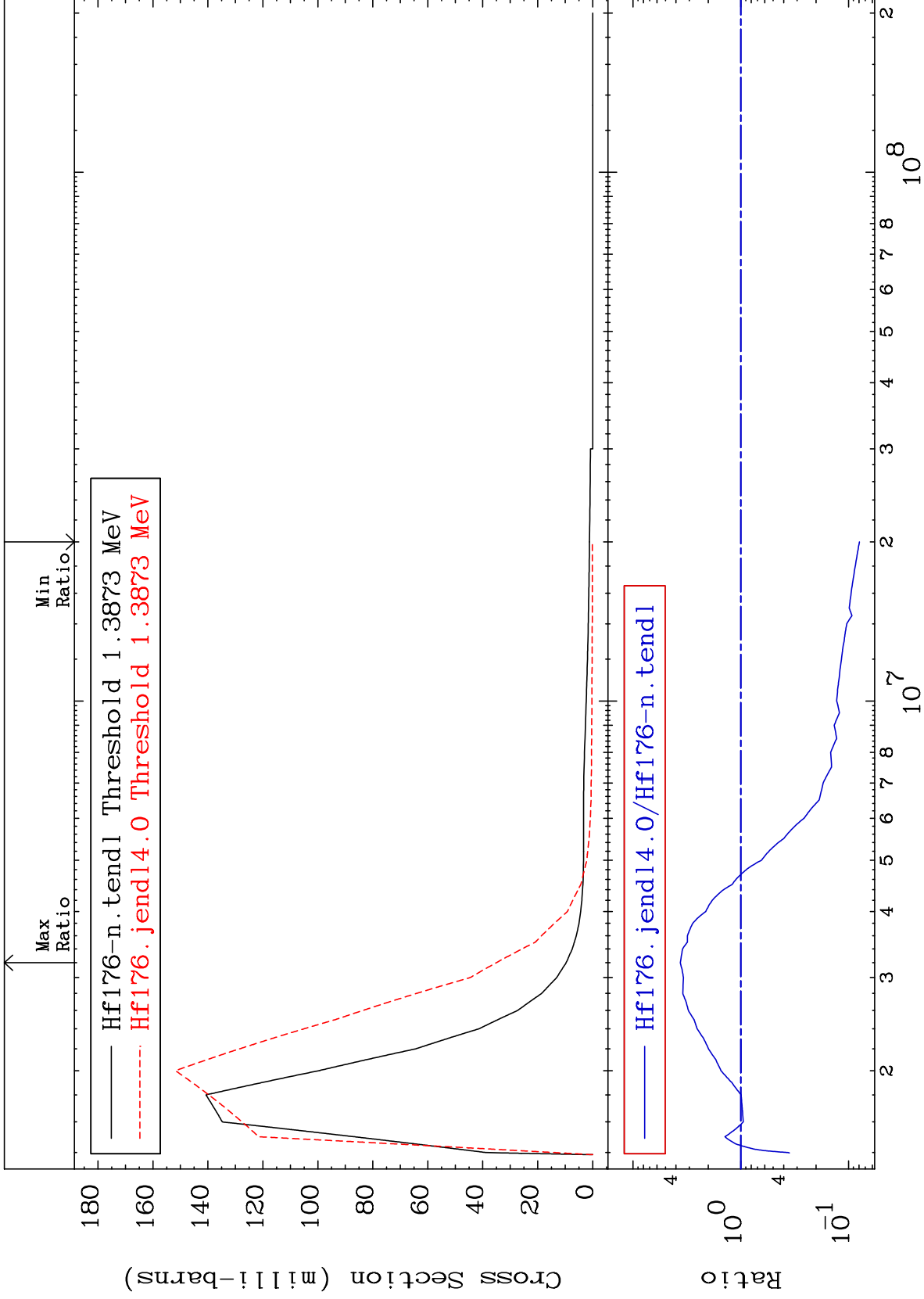
⁷²Hf-176
-89.54 To 429.8 %



MAT 7231

1.379 MeV (n,n') Level
Cross Section

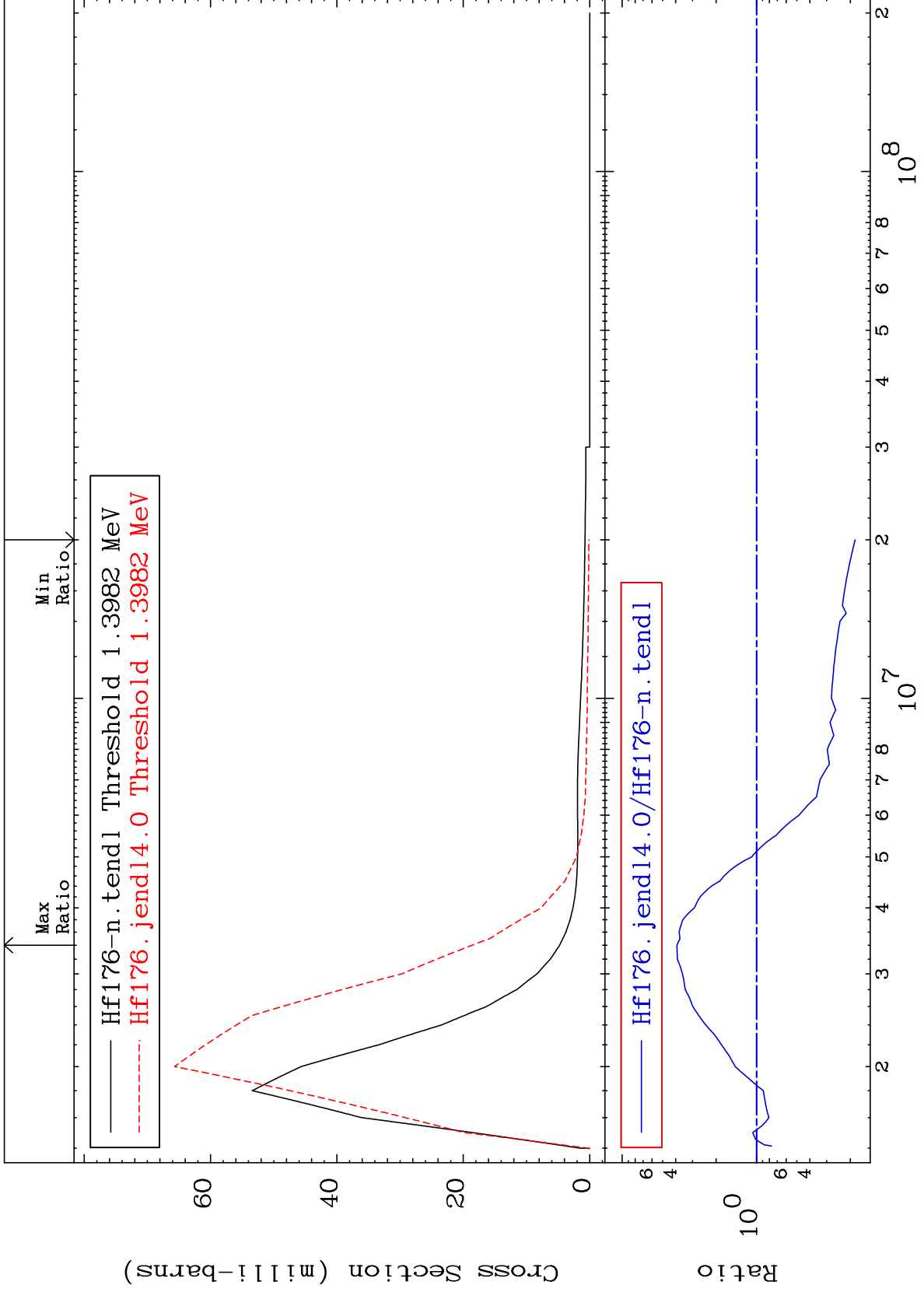
⁷²Hf-176
-92.08 To 263.6 %



MAT 7231

1.390 MeV (n,n') Level
Cross Section

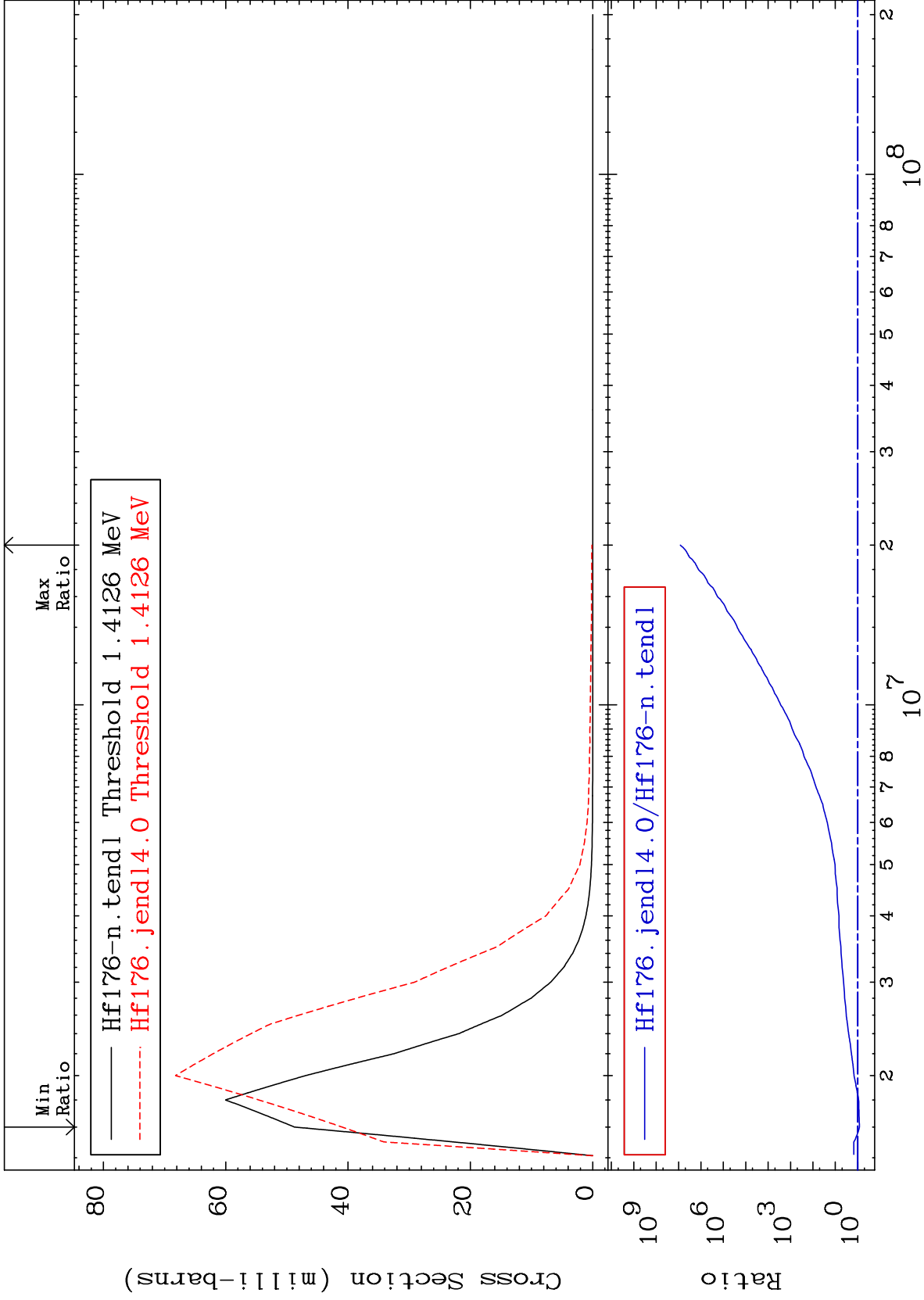
⁷²Hf-¹⁷⁶
-81.57 To 291.1 %



MAT 7231

1.405 MeV (n,n') Level
Cross Section

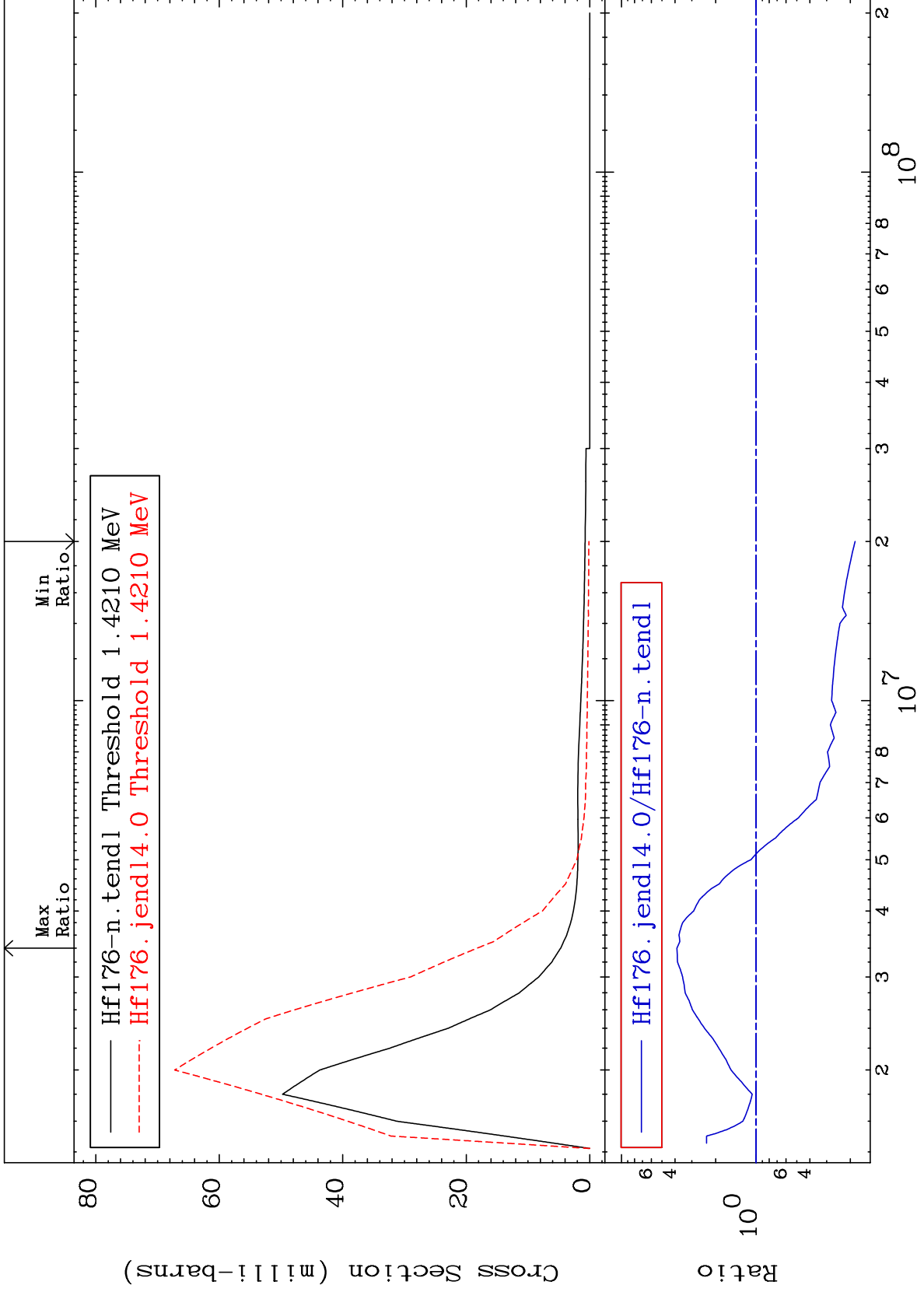
72-Hf-176
-15.99 To 9999. %



MAT 7231

1.413 MeV (n,n') Level
Cross Section

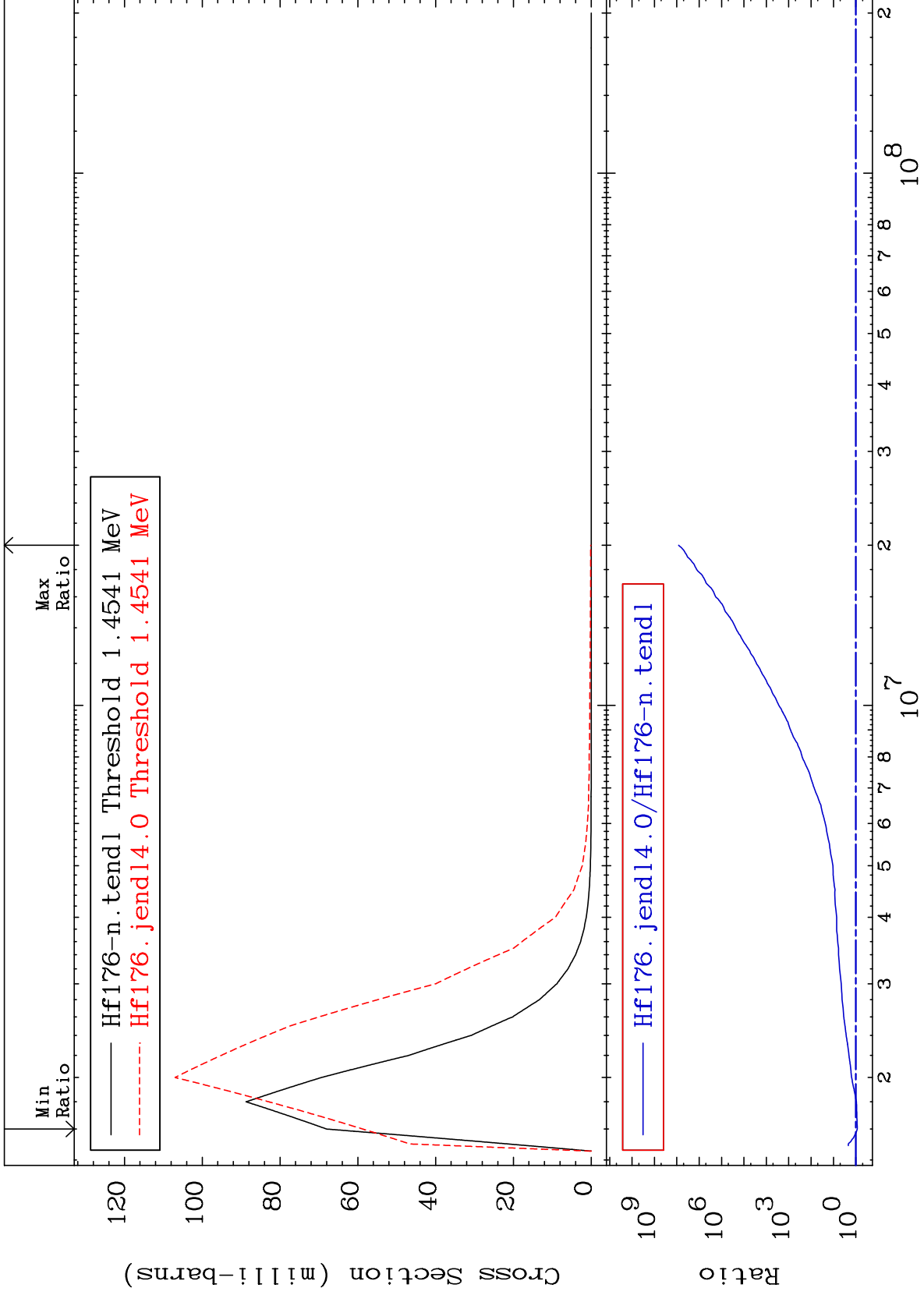
⁷²Hf-176
-81.56 To 287.6 %



MAT 7231

1.446 MeV (n,n') Level
Cross Section

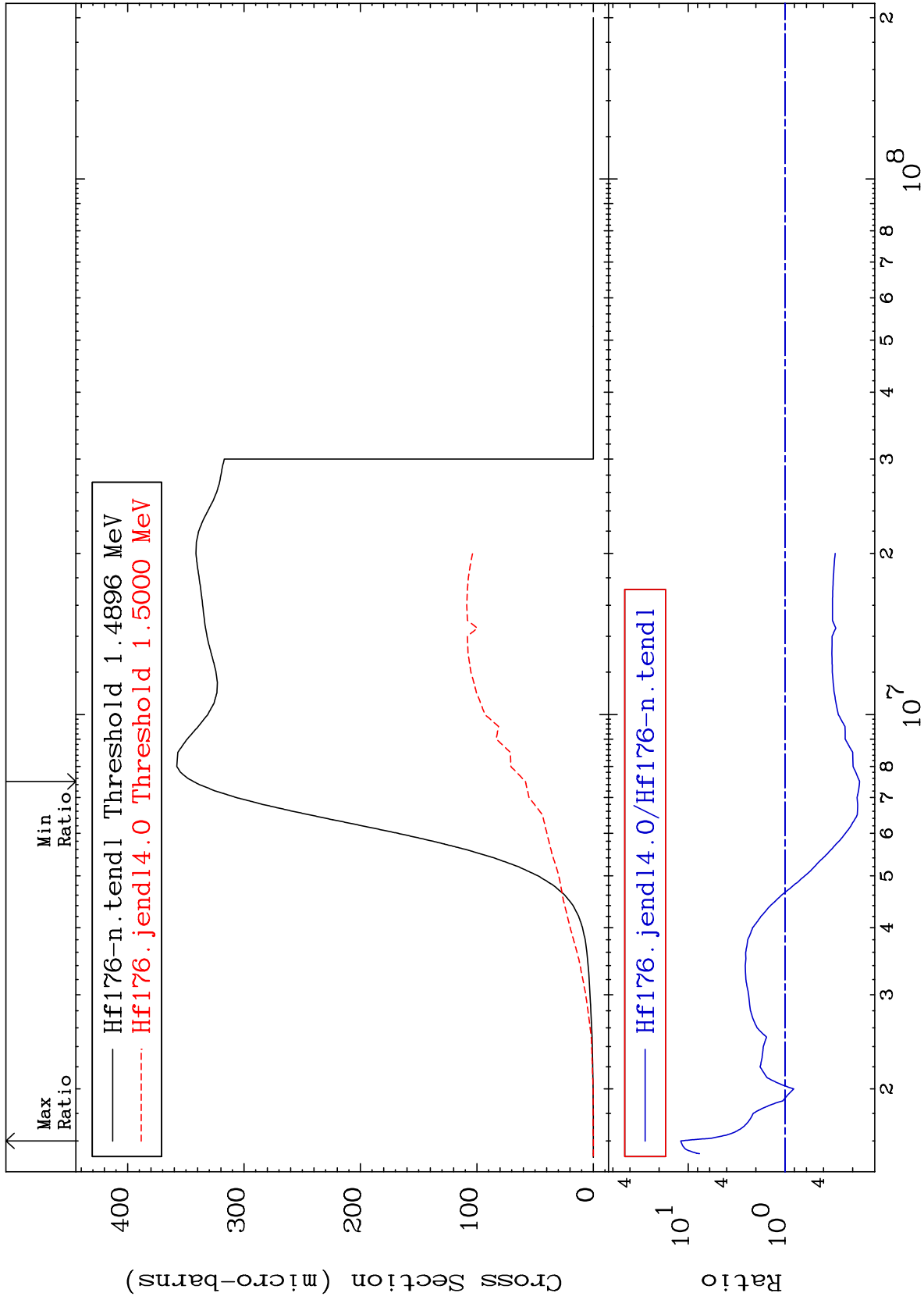
72-Hf-176
-13.73 To 9999. %



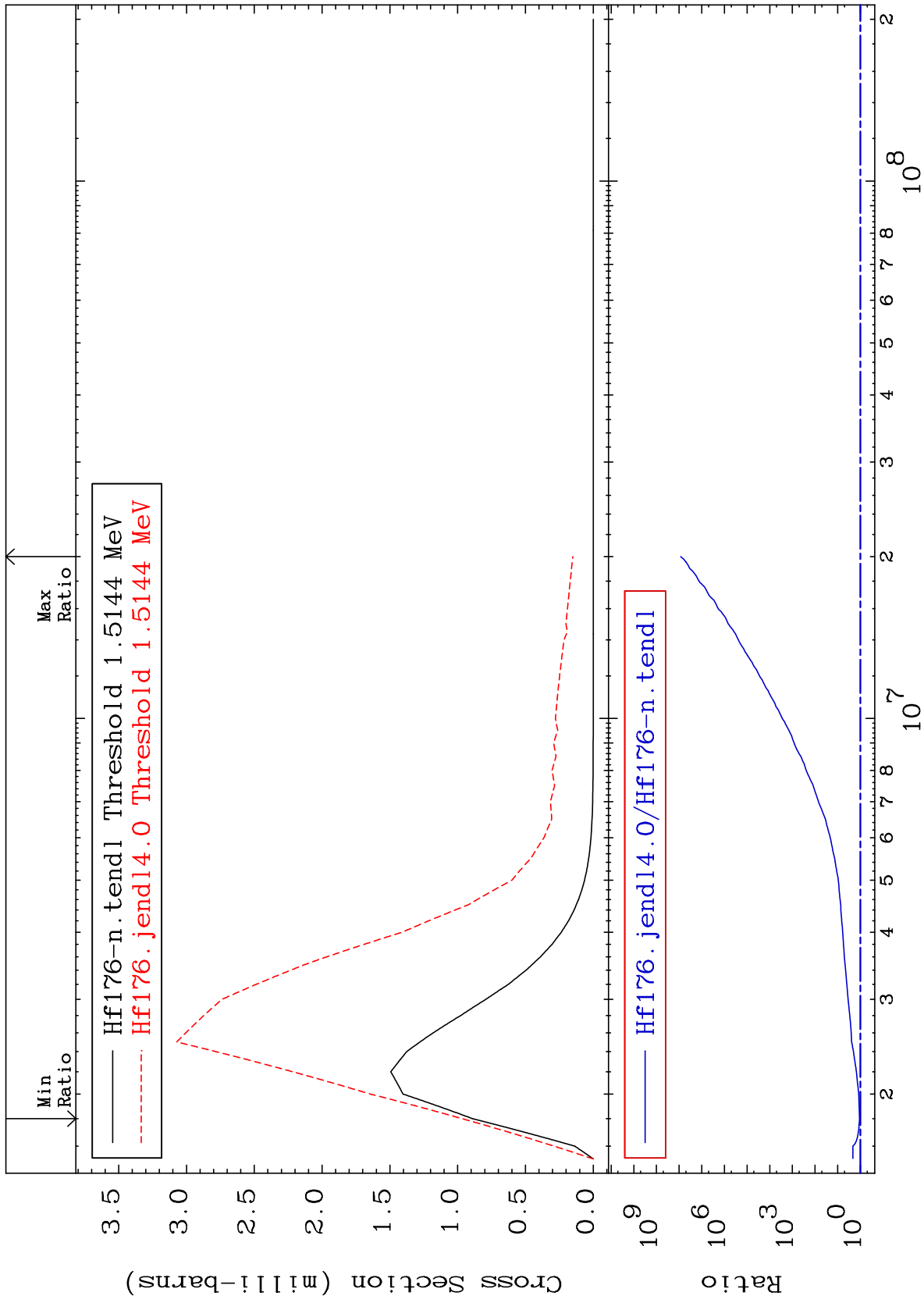
MAT 7231

1.481 MeV (n,n') Level
Cross Section

72-Hf-176
-83.02 To 1094. %



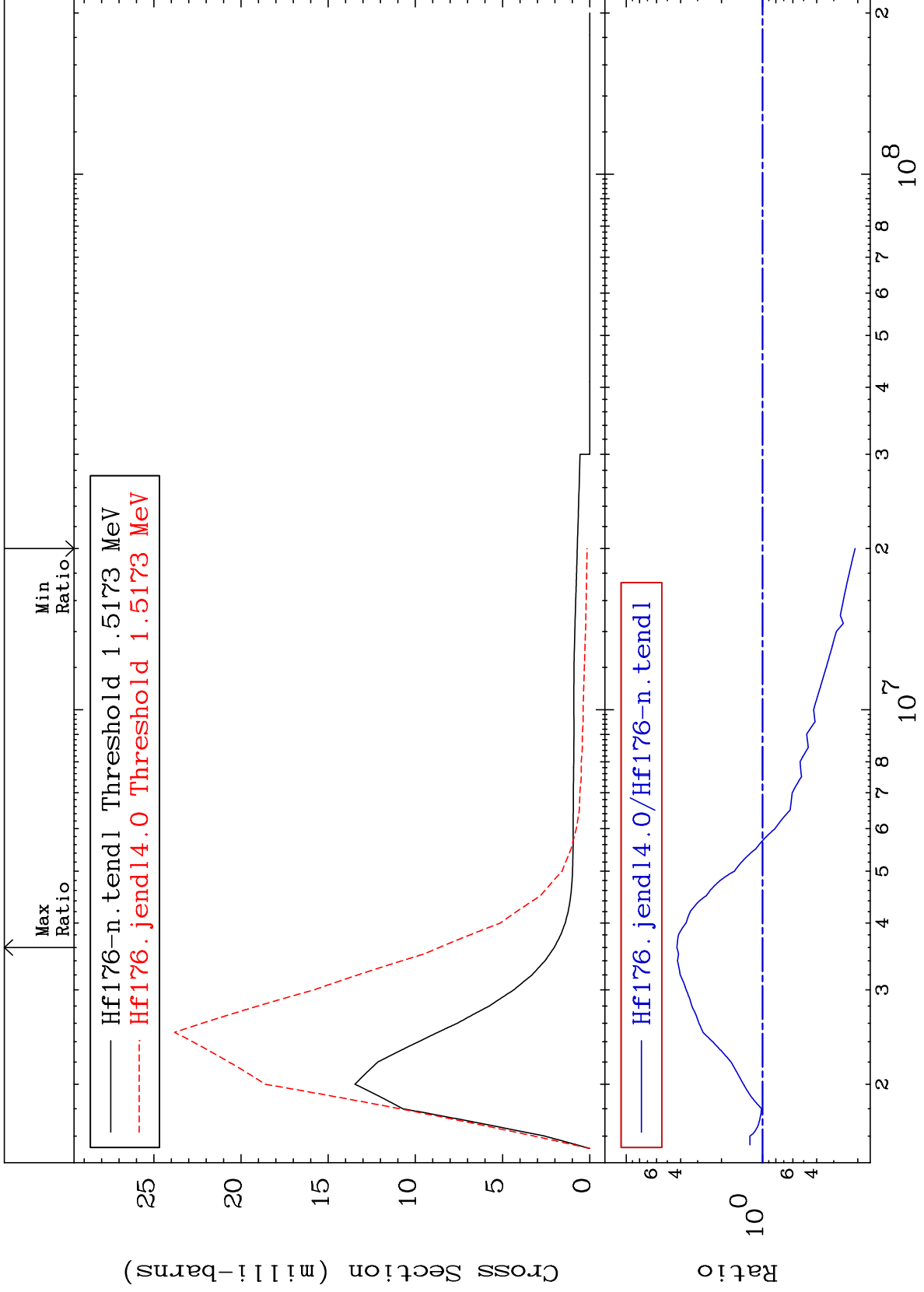
MAT 7231 1.506 MeV (n,n') Level 72-Hf-176
 Cross Section 8.593 To 9999. %



MAT 7231

1.509 MeV (n,n') Level
Cross Section

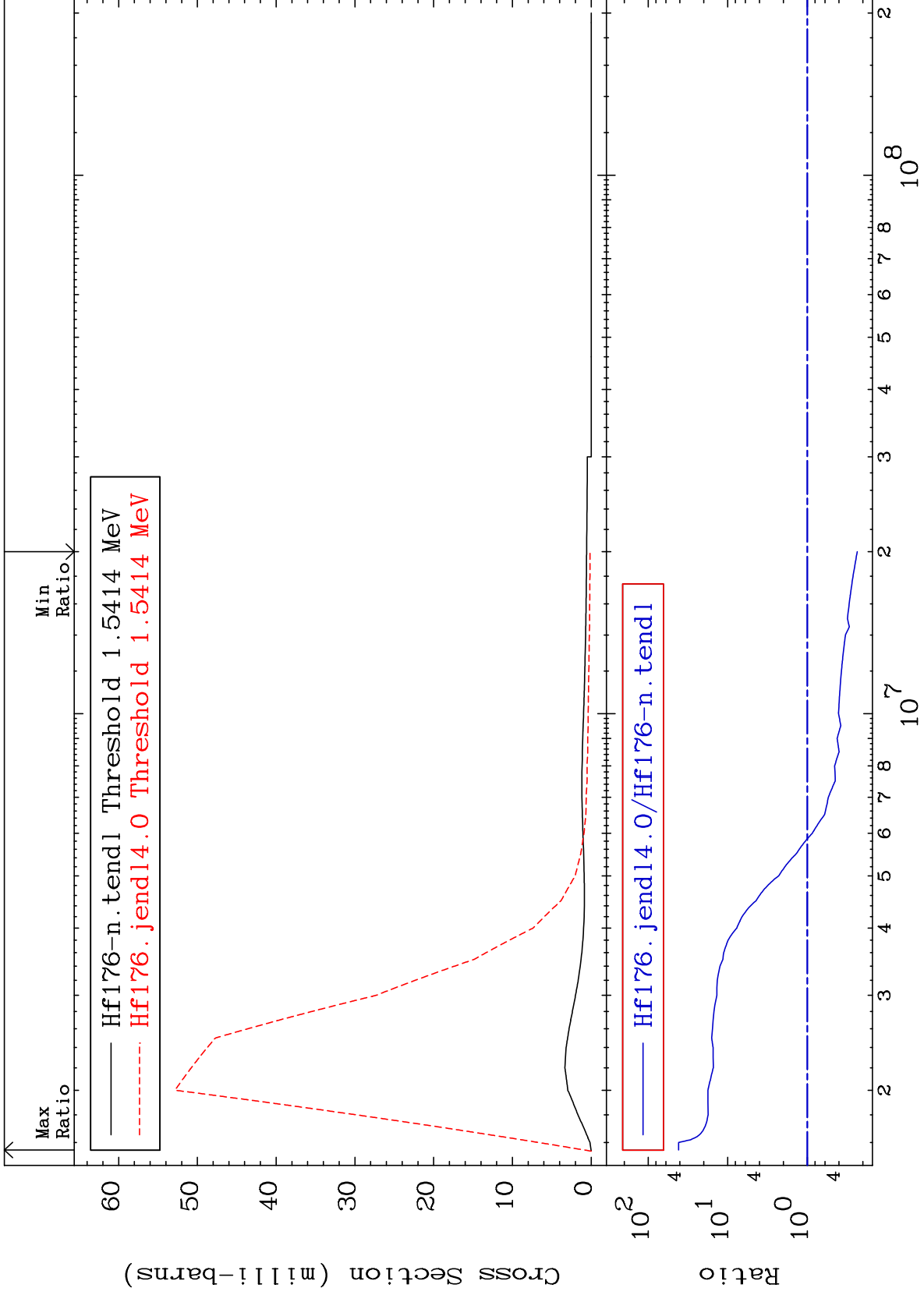
⁷²Hf-176
-79.08 To 325.1 %



MAT 7231

1.533 MeV (n,n') Level
Cross Section

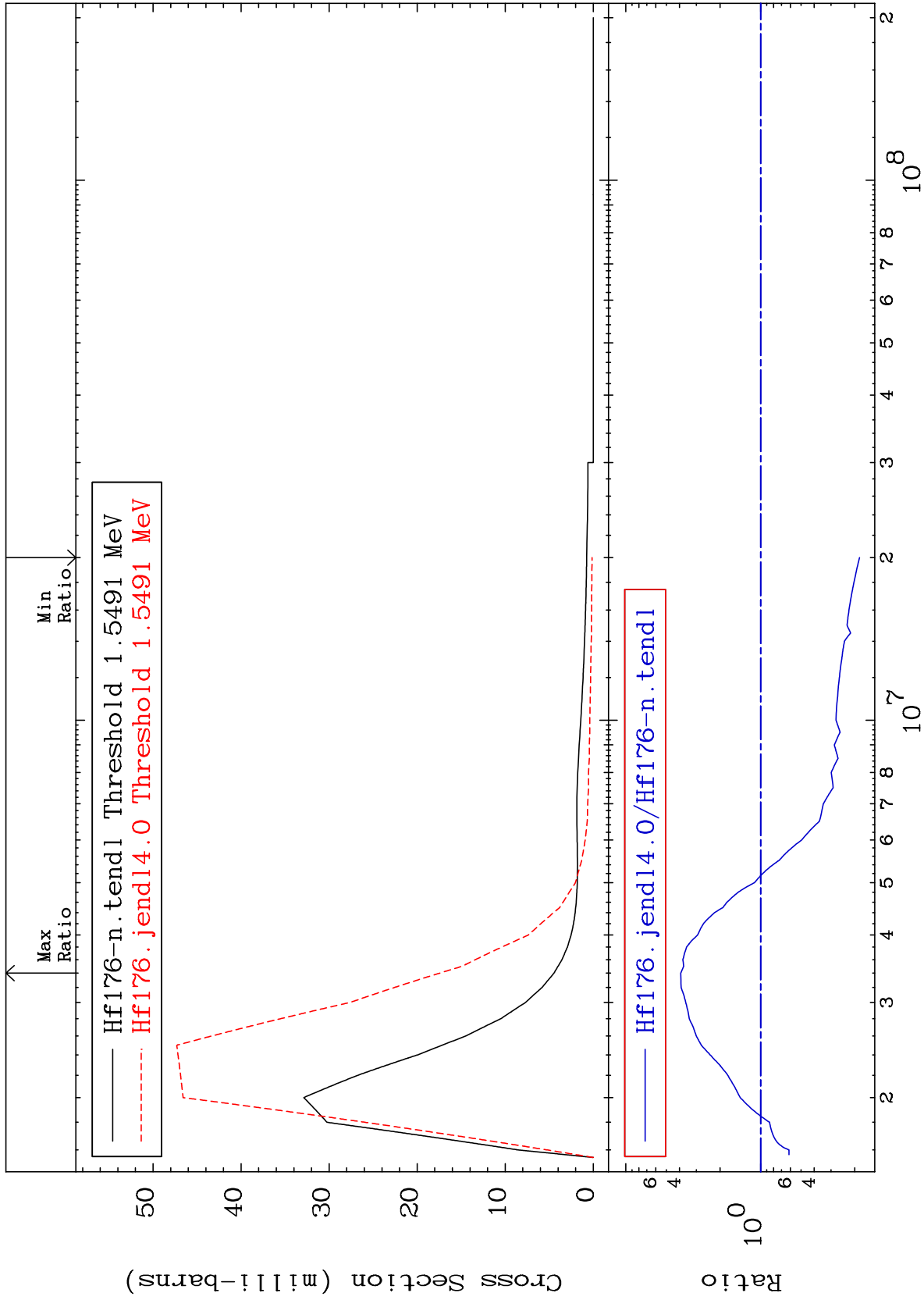
72-Hf-176
-76.47 To 4048. %



MAT 7231

1.540 MeV (n,n') Level
Cross Section

⁷²Hf-¹⁷⁶
-81.57 To 291.0 %



30

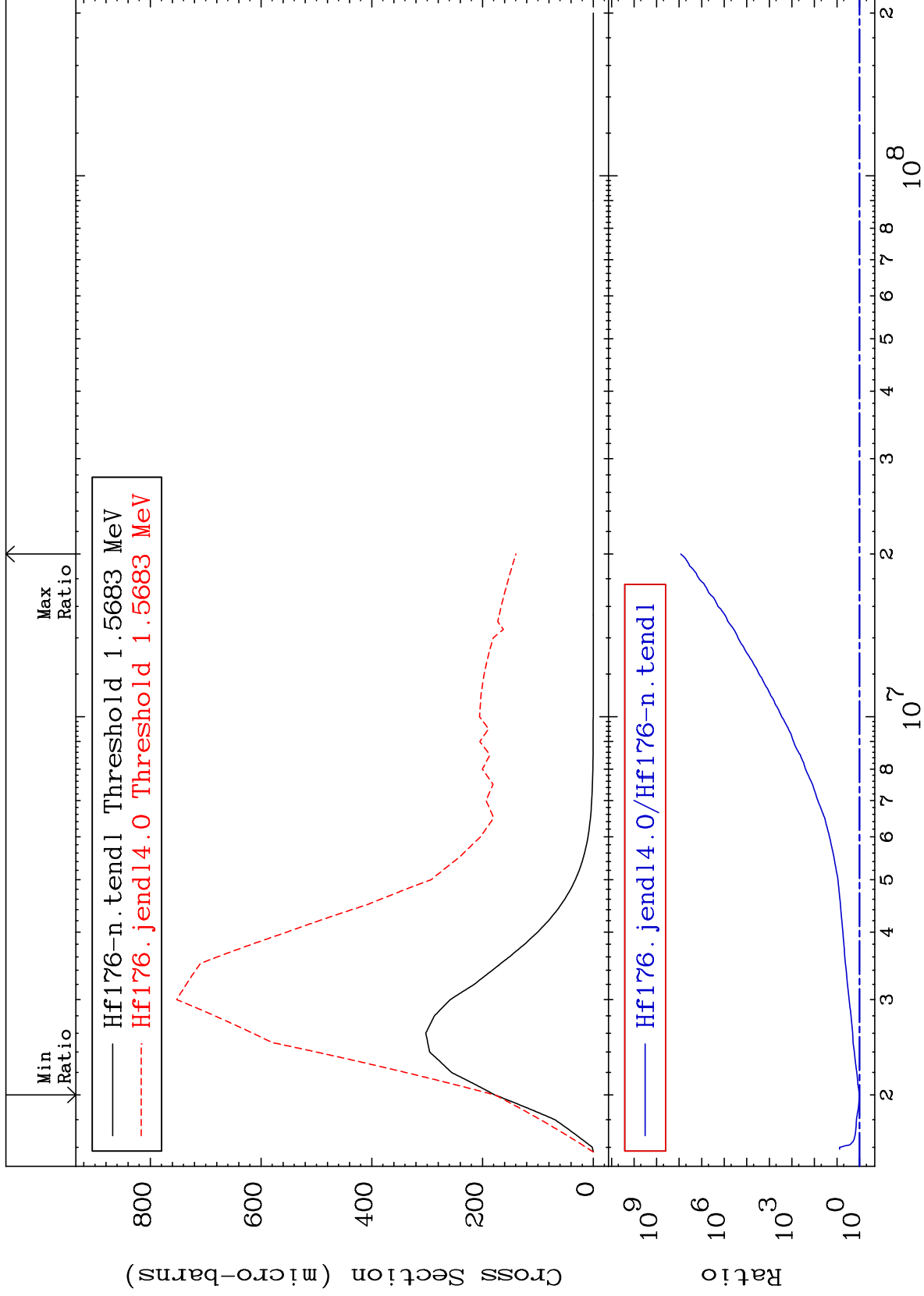
Incident Energy (eV)

⁷²Hf-¹⁷⁶

MAT 7231

1.559 MeV (n,n') Level
Cross Section

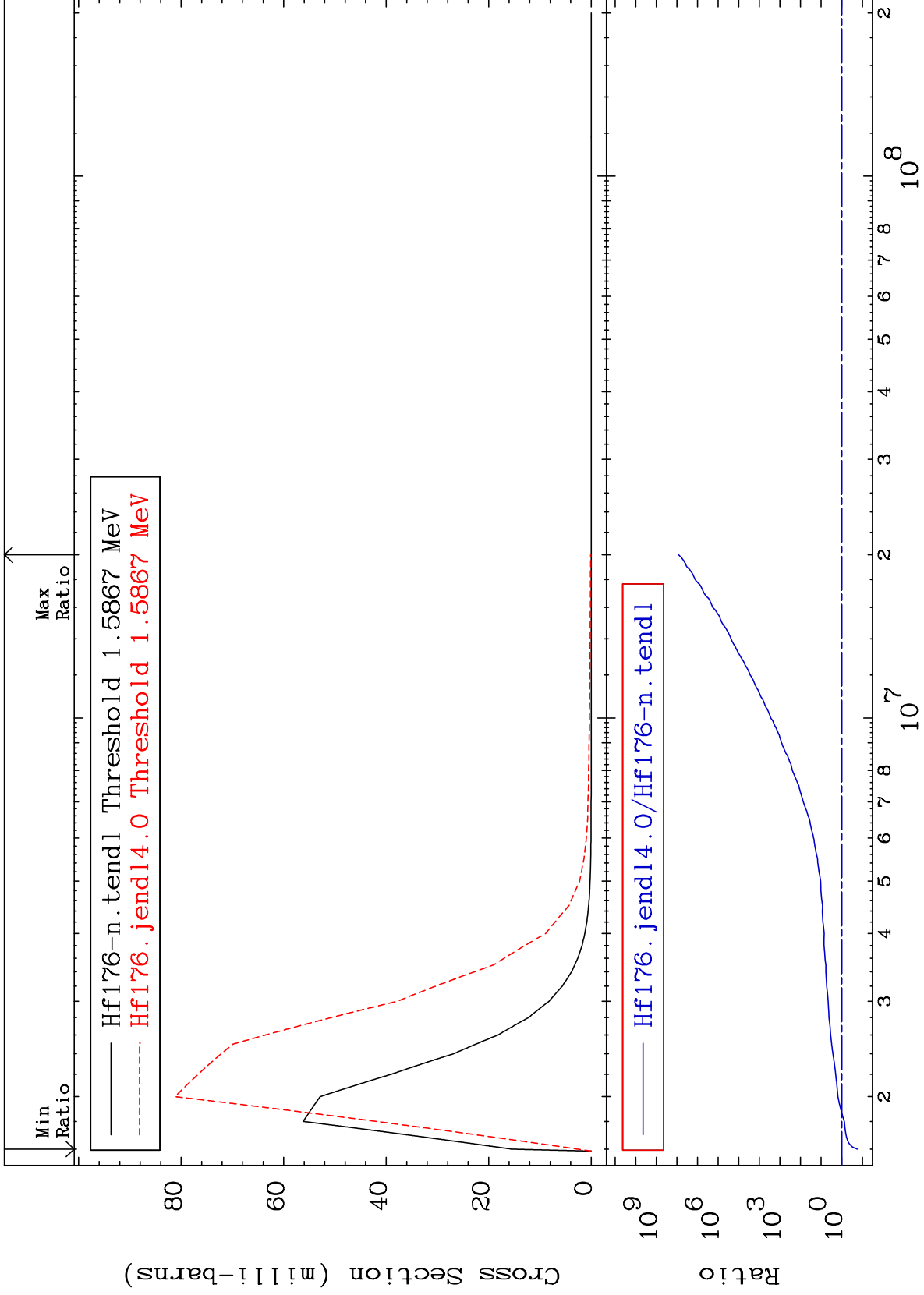
⁷²Hf-176
-0.056 To 9999. %



MAT 7231

1.578 MeV (n,n') Level
Cross Section

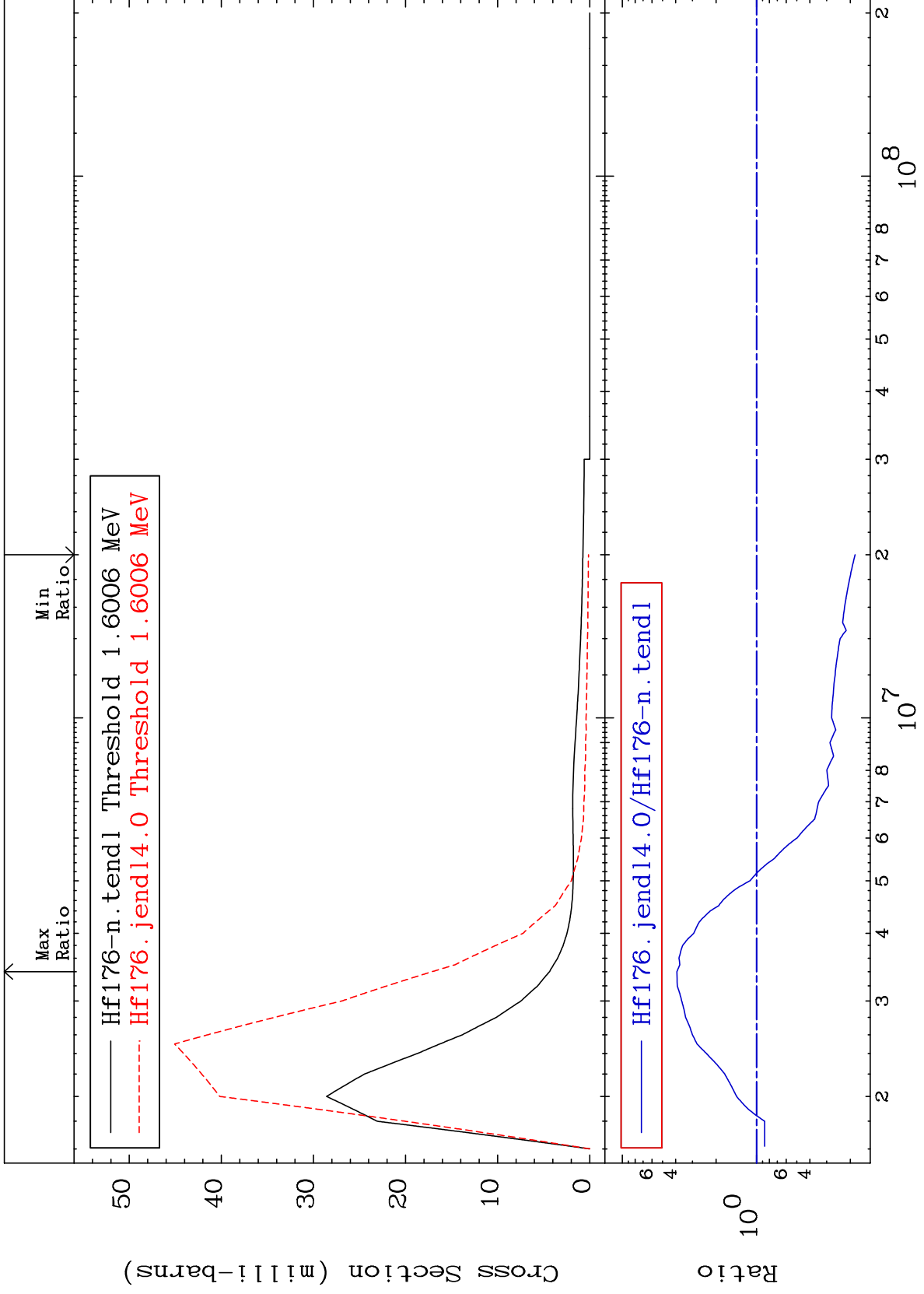
72-Hf-176
-82.32 To 9999. %

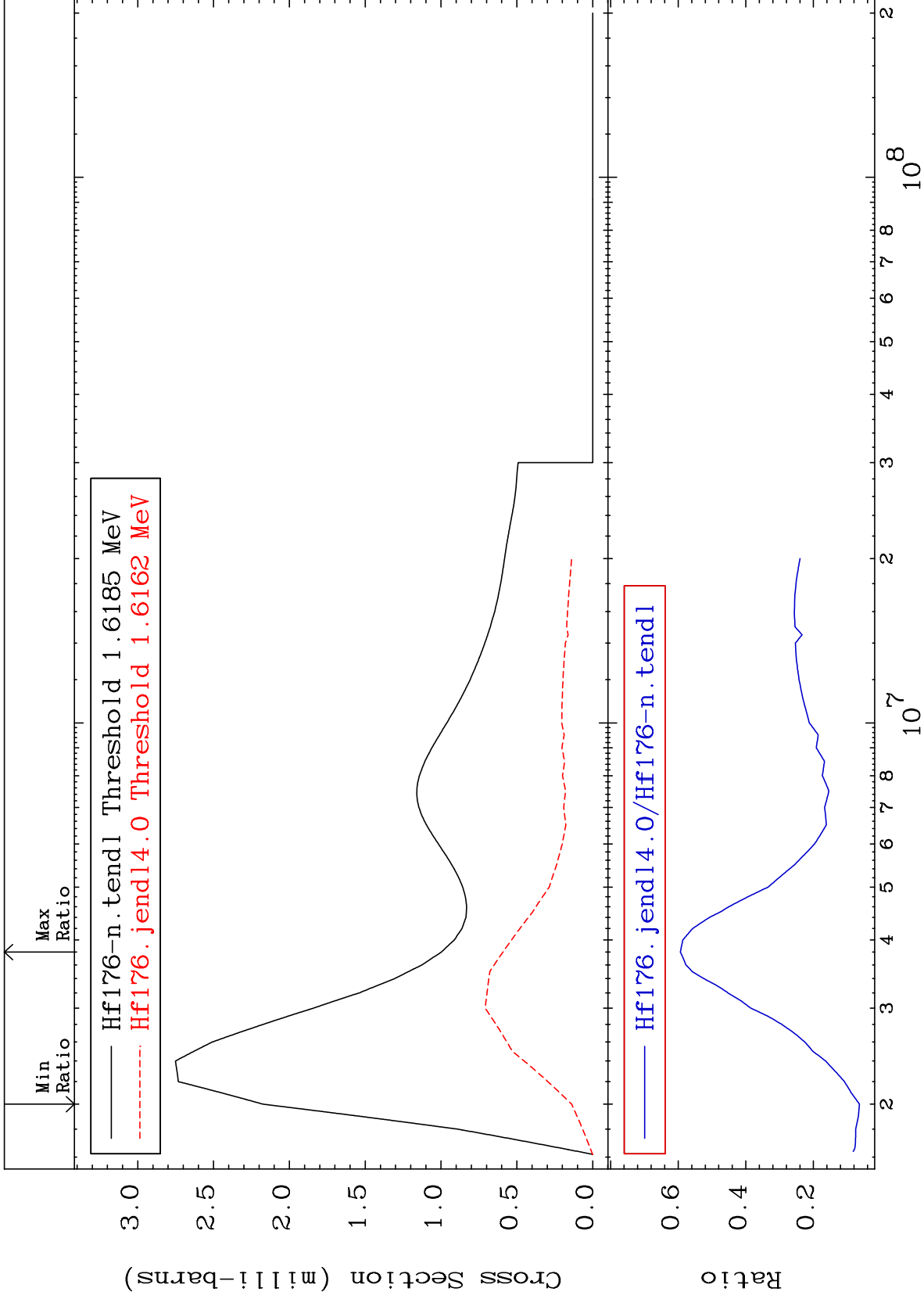


MAT 7231

1.592 MeV (n,n') Level
Cross Section

⁷²Hf-176
-81.57 To 291.3 %

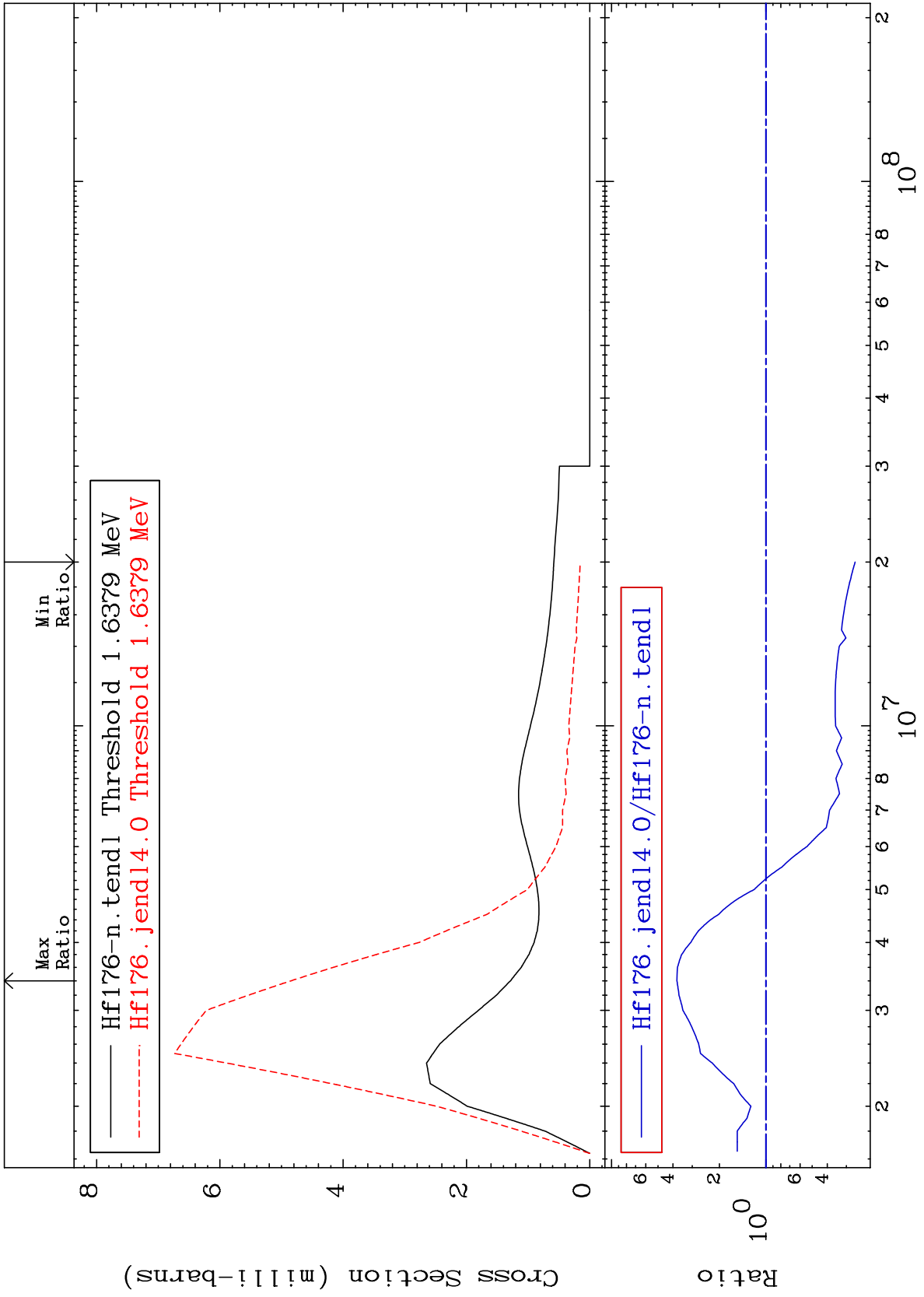




MAT 7231

1.629 MeV (n,n') Level
Cross Section

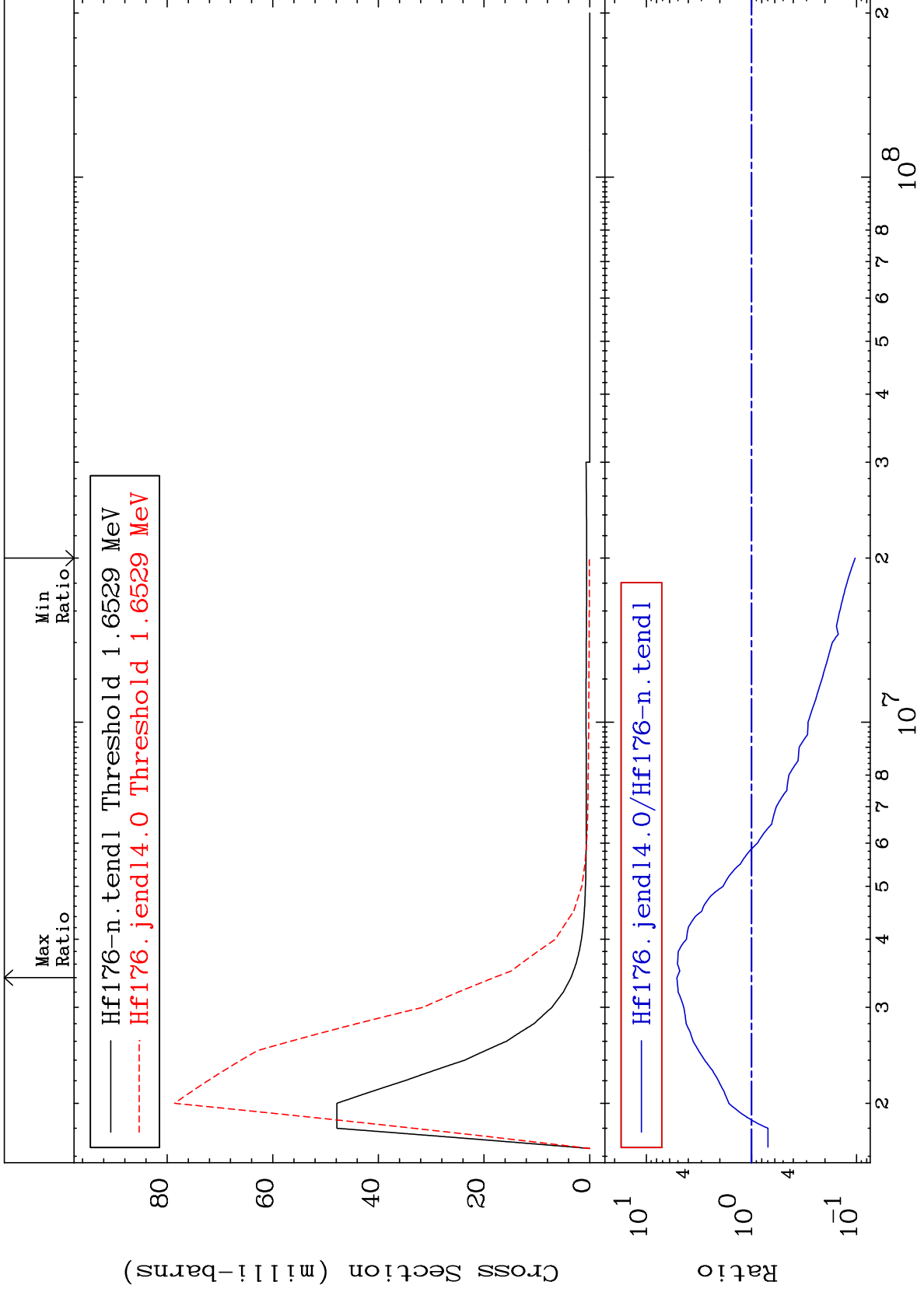
⁷²Hf-176
-73.63 To 277.1 %



MAT 7231

1.643 MeV (n,n') Level
Cross Section

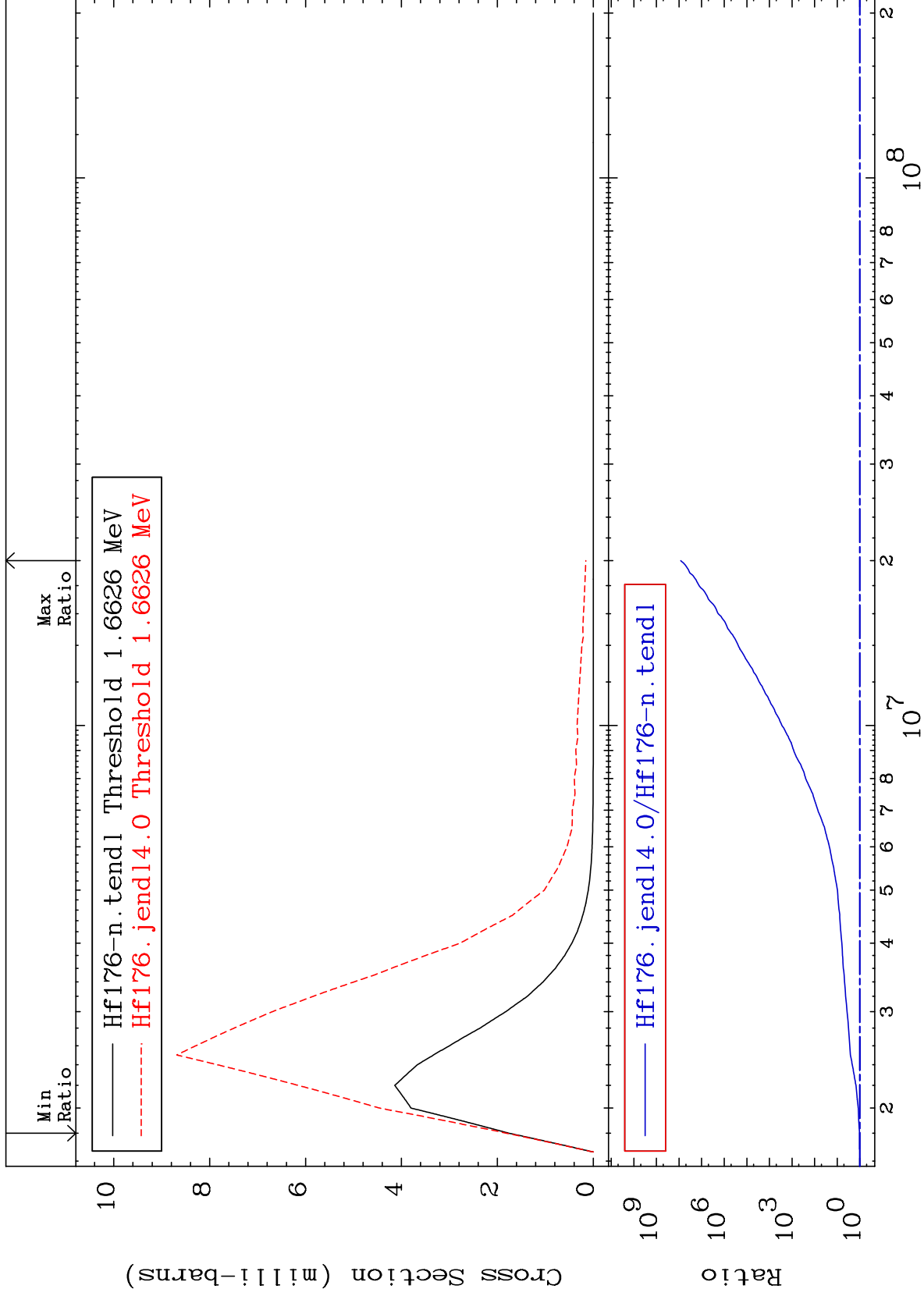
⁷²Hf-176
-89.66 To 412.1 %



MAT 7231

1.653 MeV (n,n') Level
Cross Section

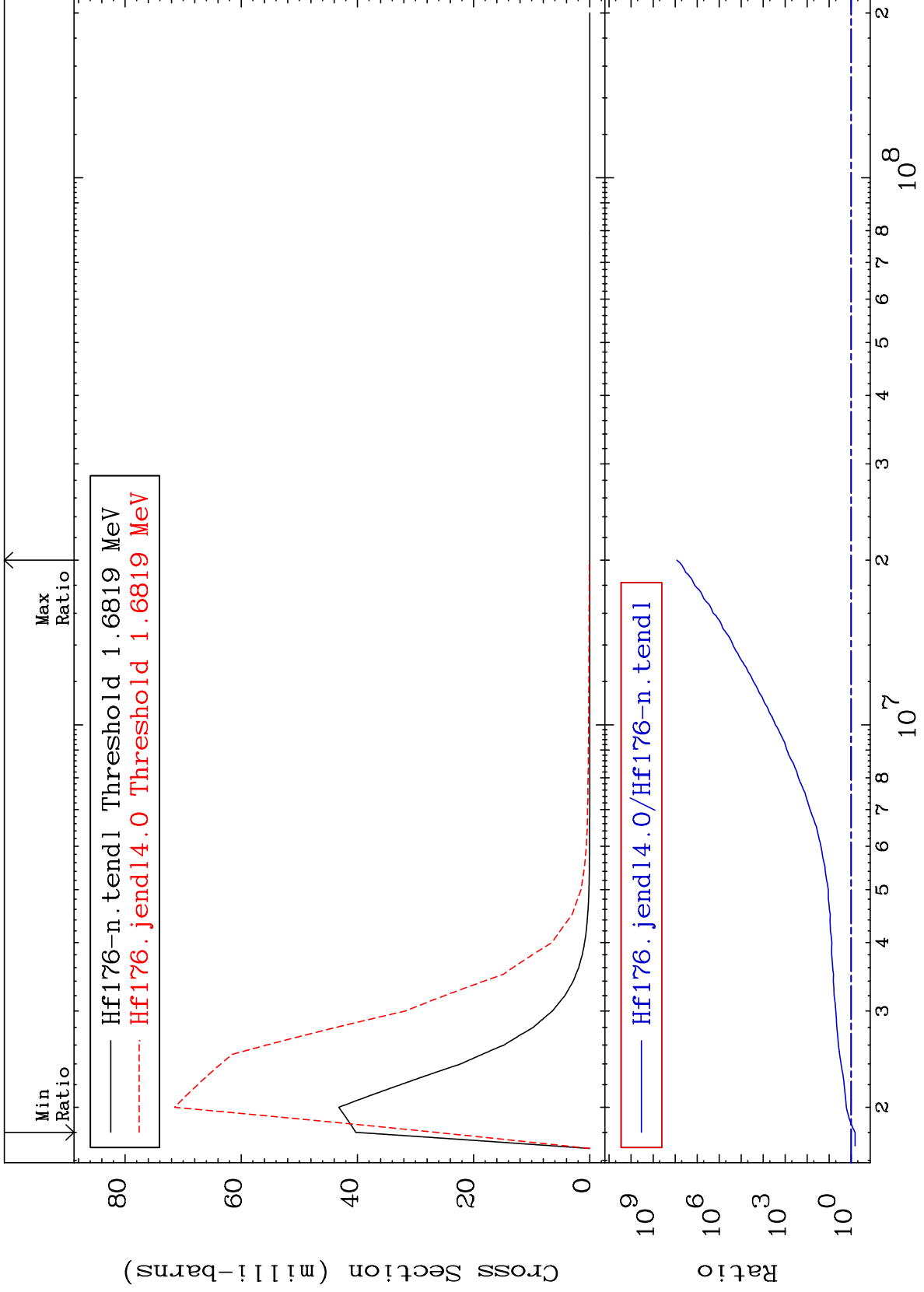
72-Hf-176
2.796 To 9999. %

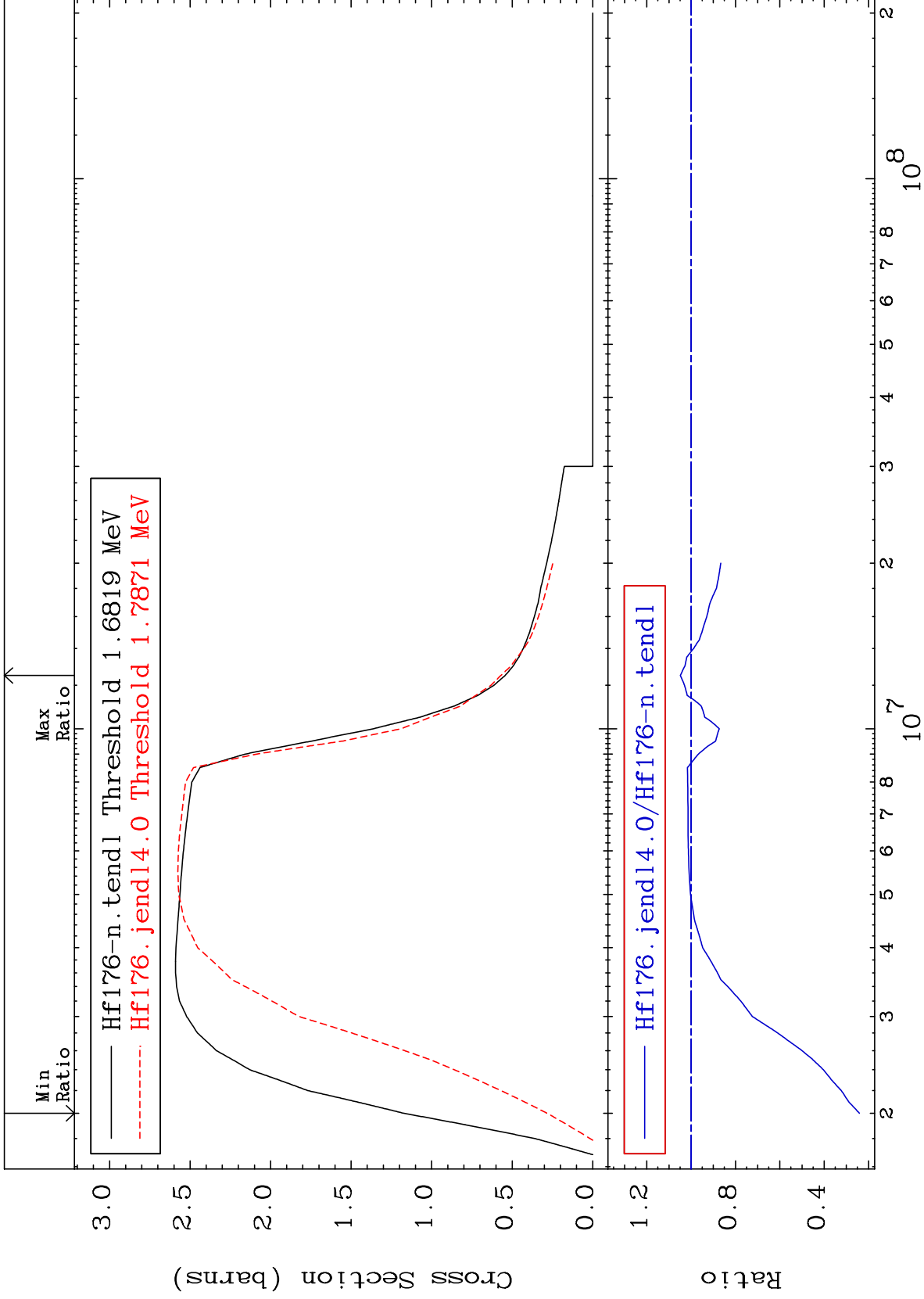


MAT 7231

1.672 MeV (n,n') Level
Cross Section

72-Hf-176
-34.12 To 9999. %

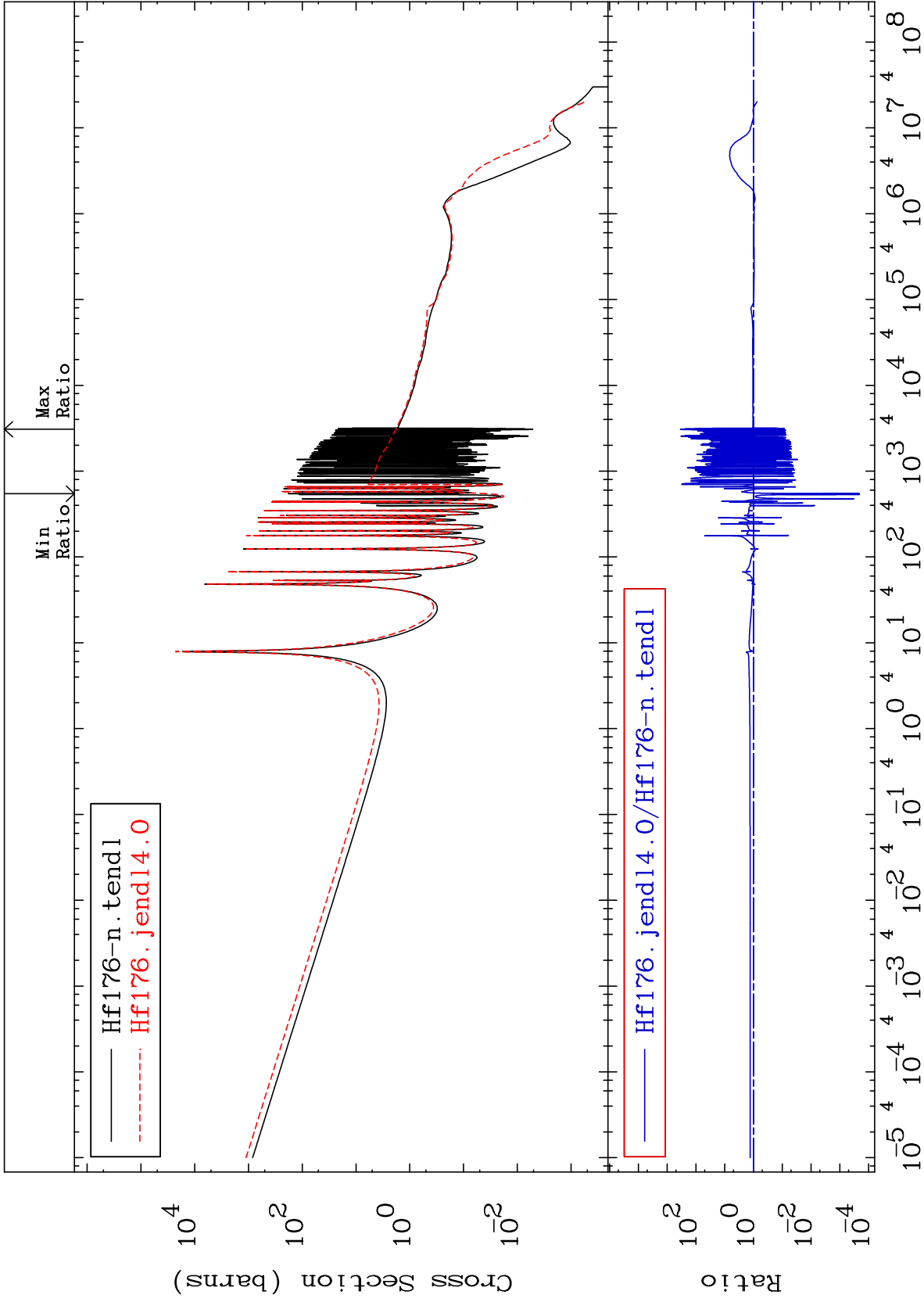




MAT 7231

(n, γ)
Cross Section

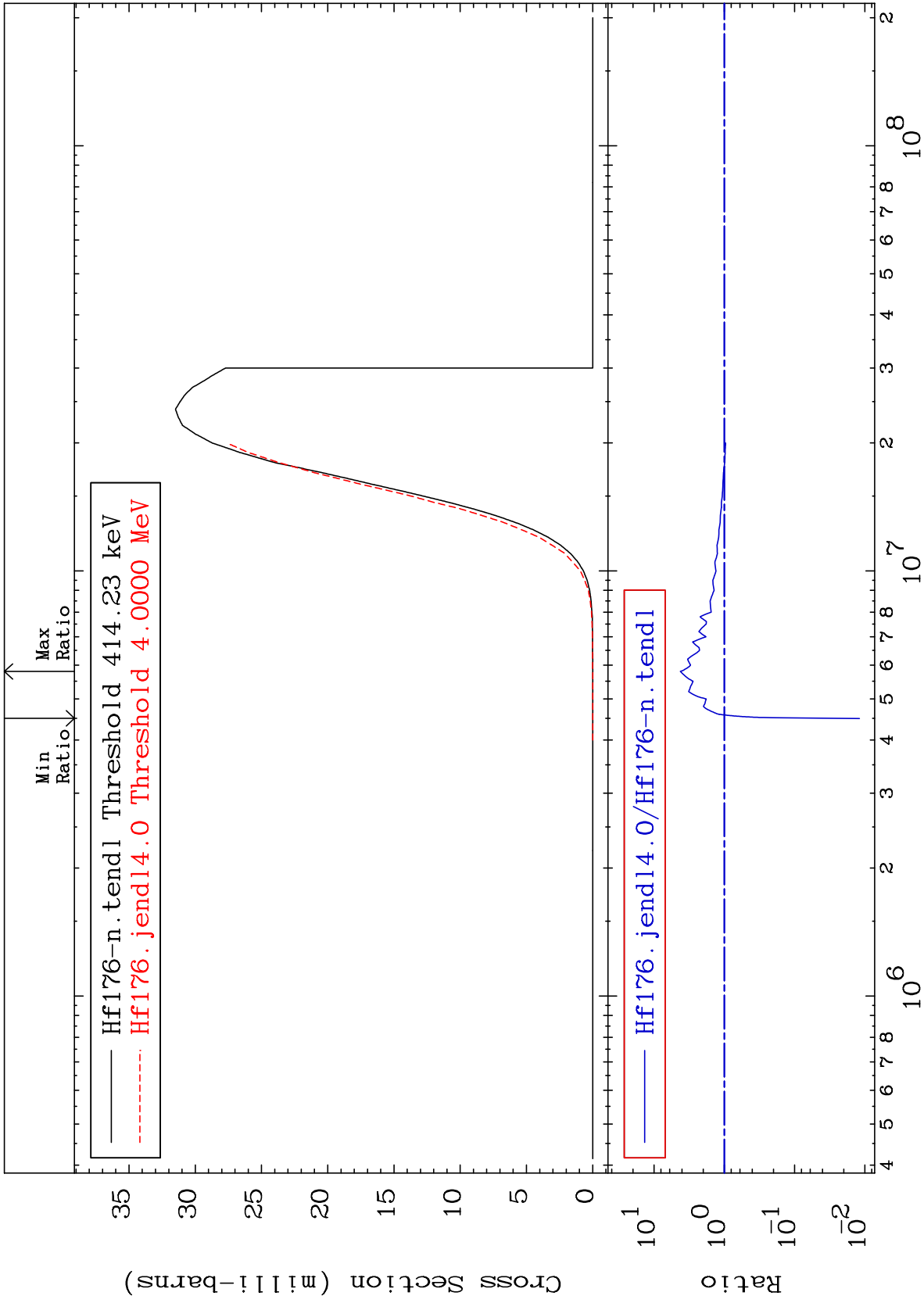
72-Hf-176
-99.98 To 9999. %

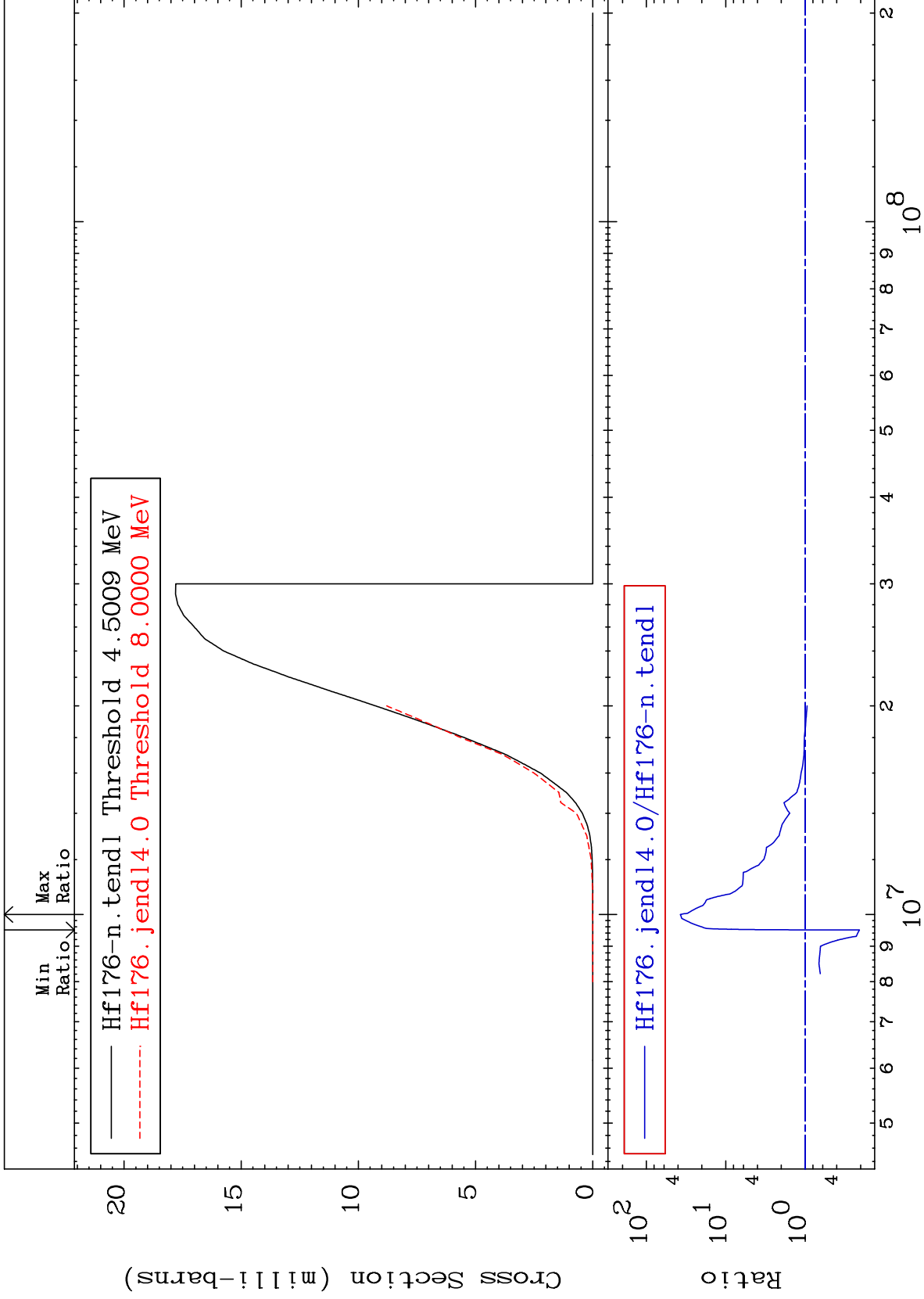


40

Incident Energy (eV)

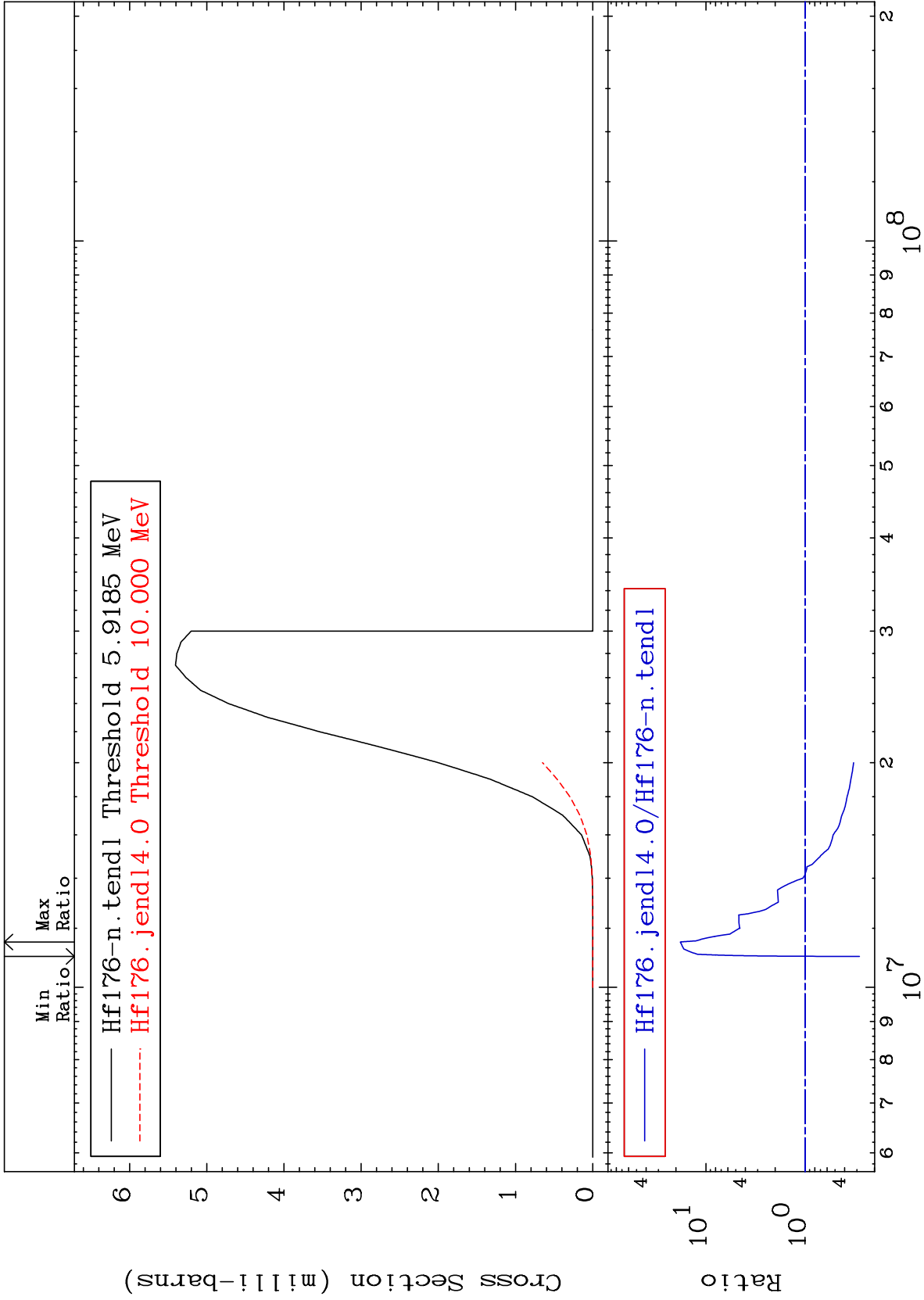
72-Hf-176





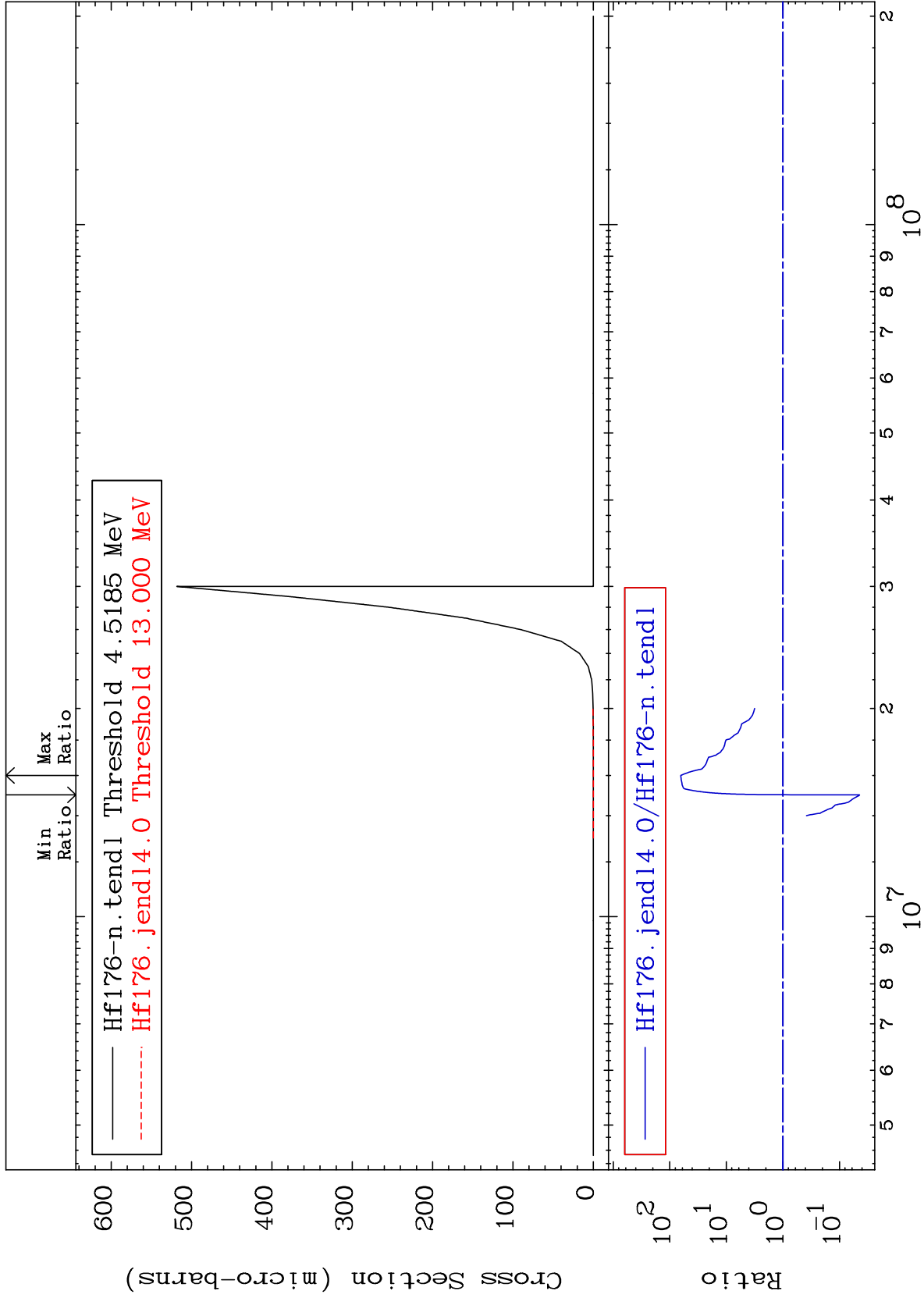
Cross Section

-71.64 To 1707. %



Cross Section

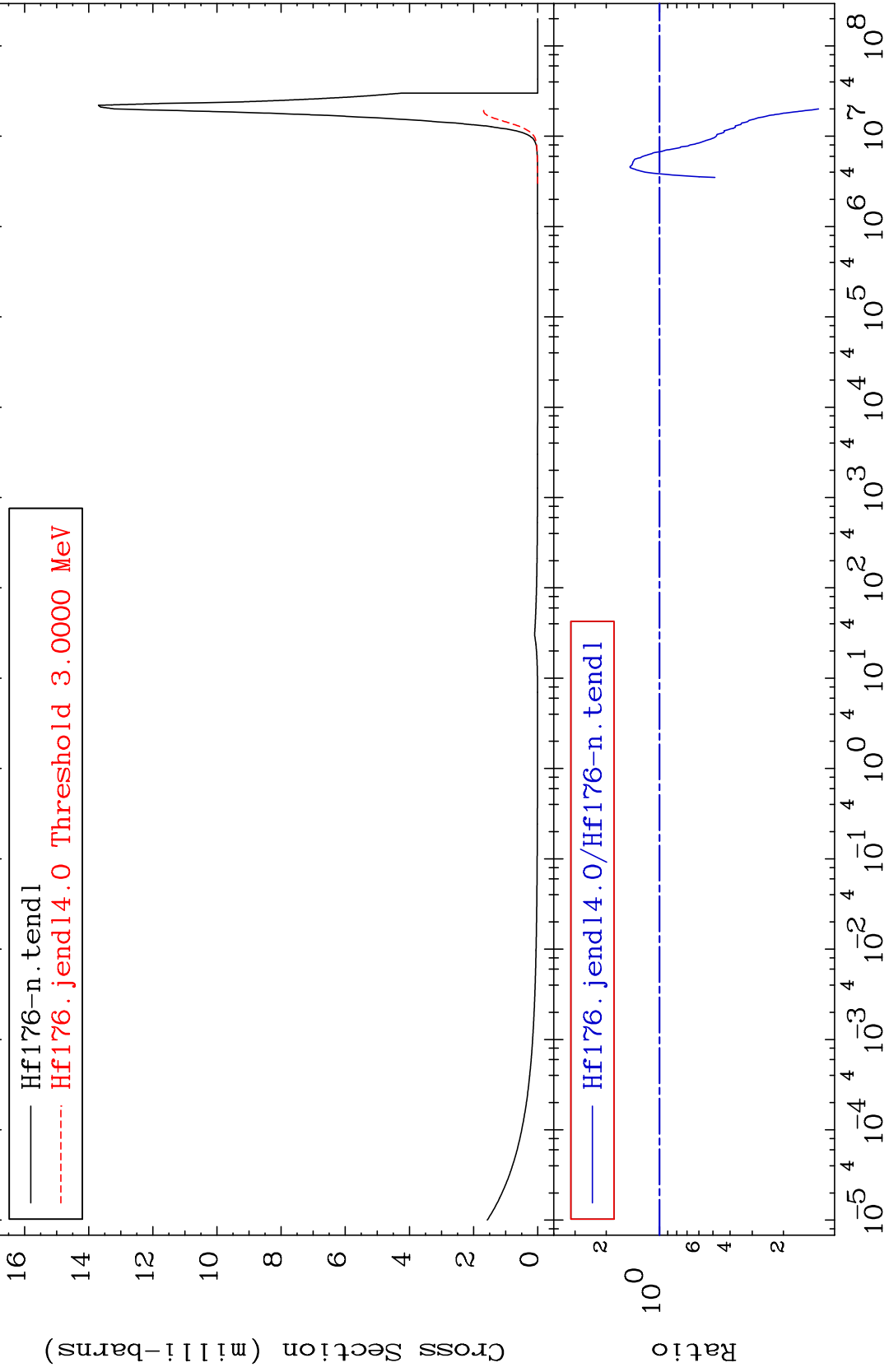
-95.58 To 6288. %



MAT 7231

(n, α)
Cross Section

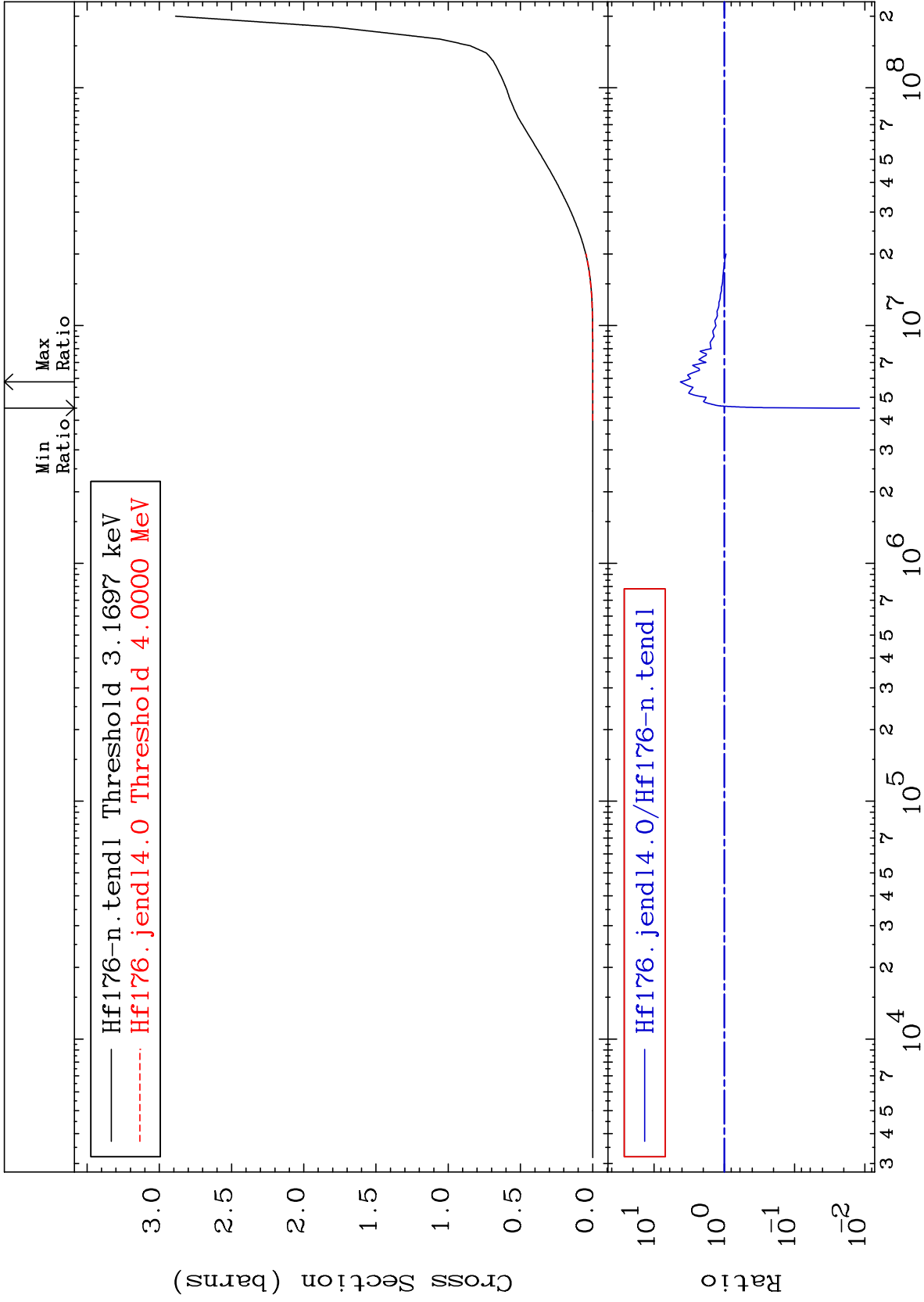
72-Hf-176
-87.33 To 46.89 %

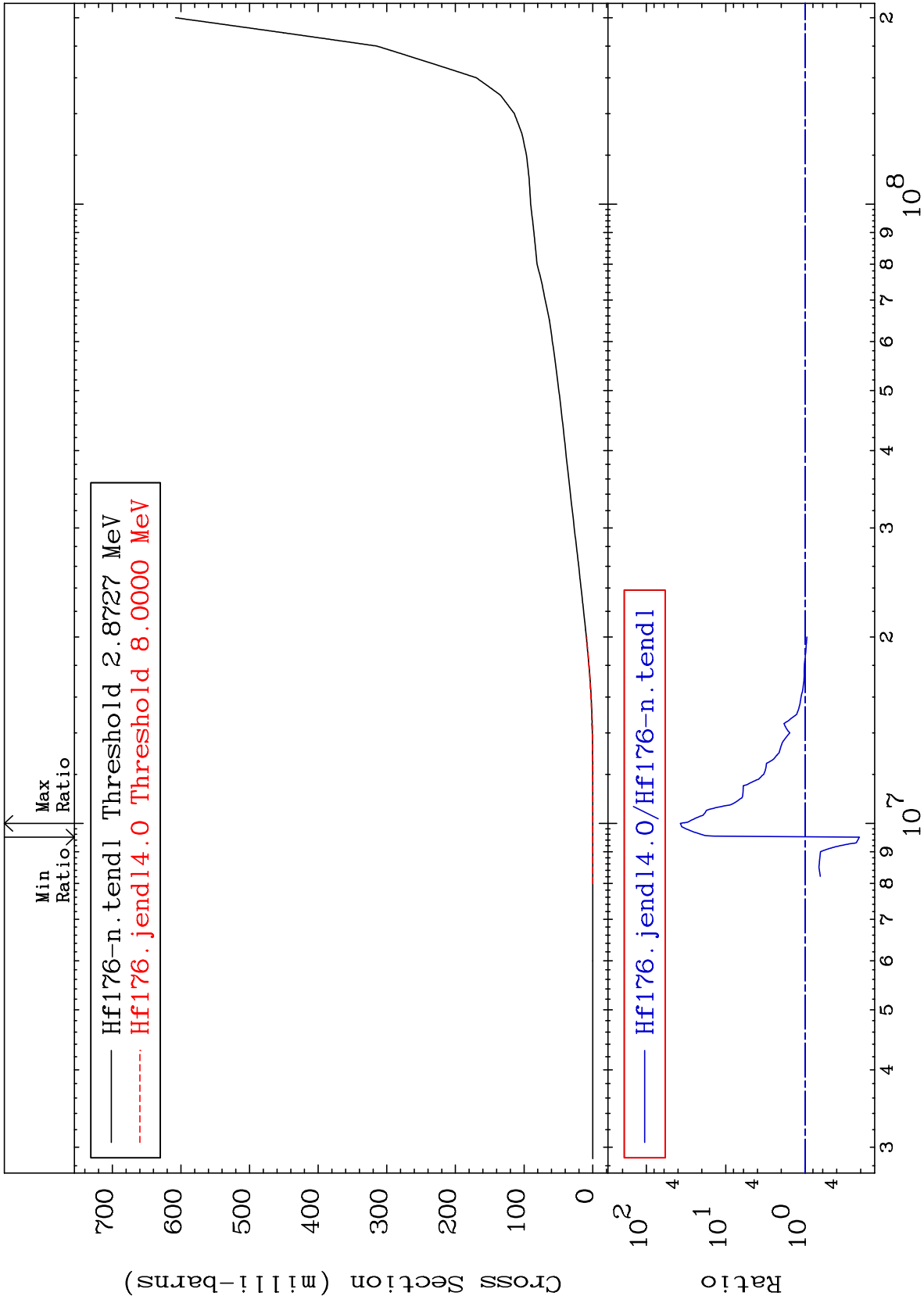


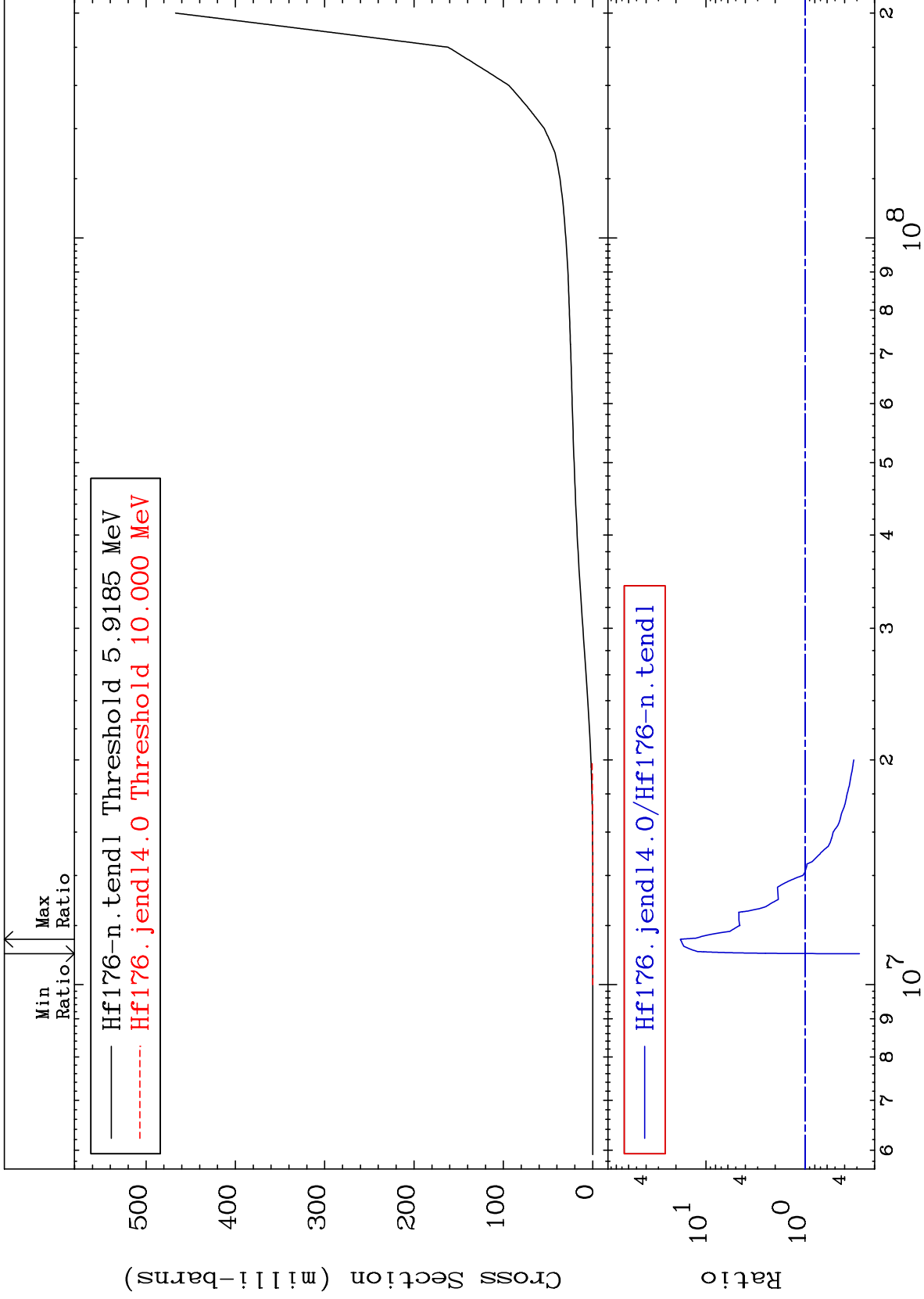
45

Incident Energy (eV)

72-Hf-176



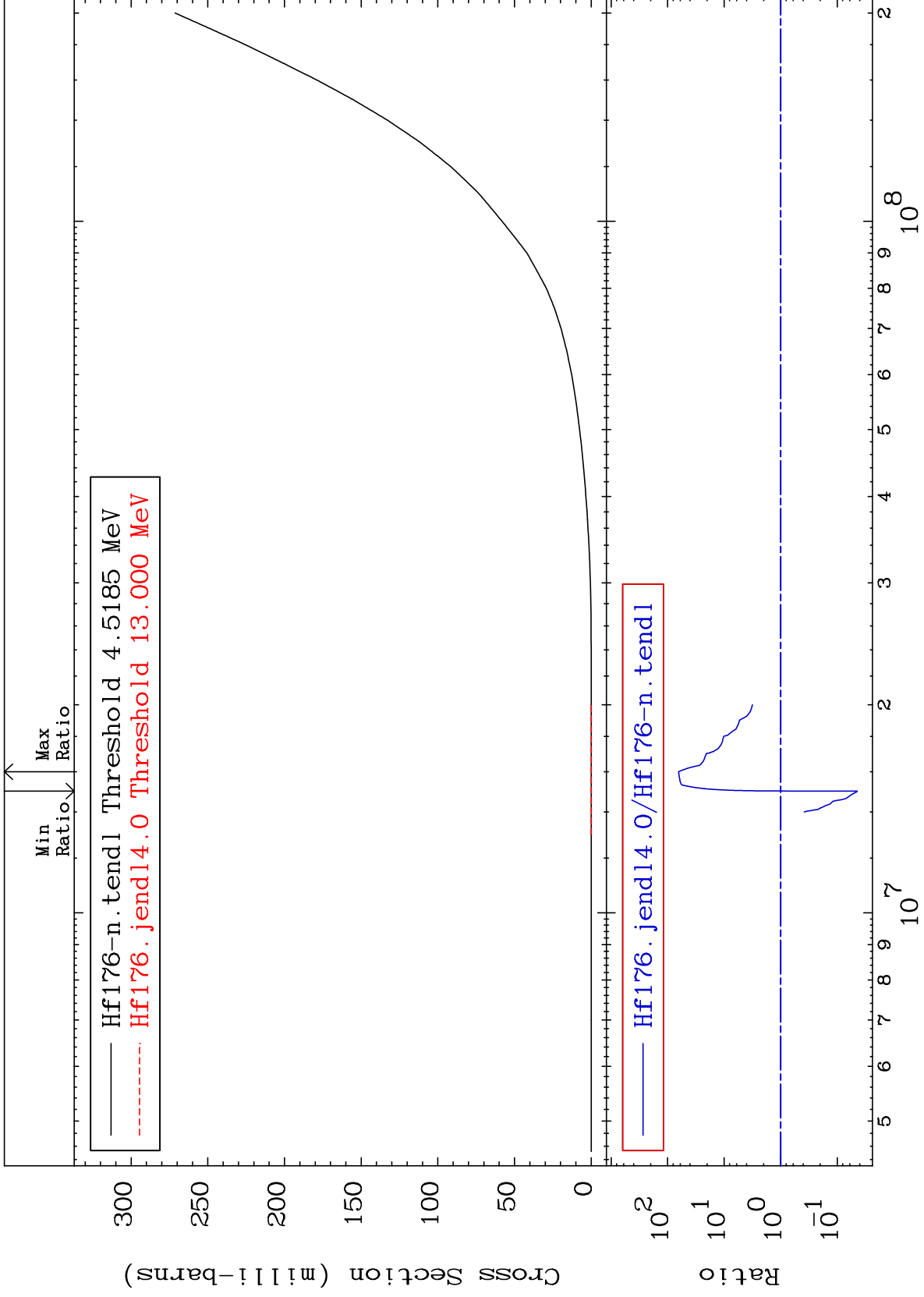




MAT 7231

He-3 Production
Cross Section

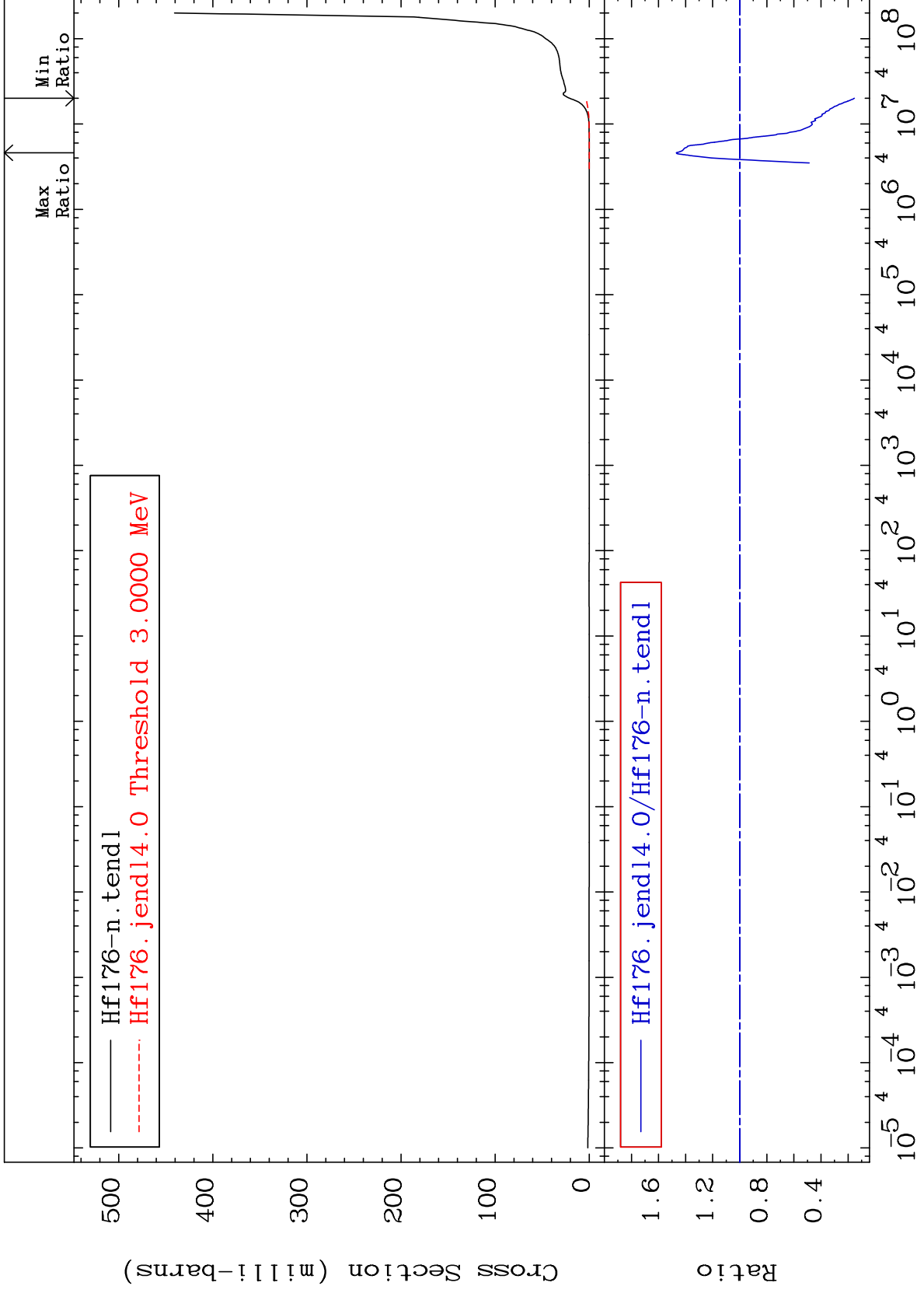
⁷²Hf-176
-95.58 To 6288. %



MAT 7231

He-4 Production
Cross Section

72-Hf-176
-84.63 To 46.83 %



50

Incident Energy (eV)

72-Hf-176

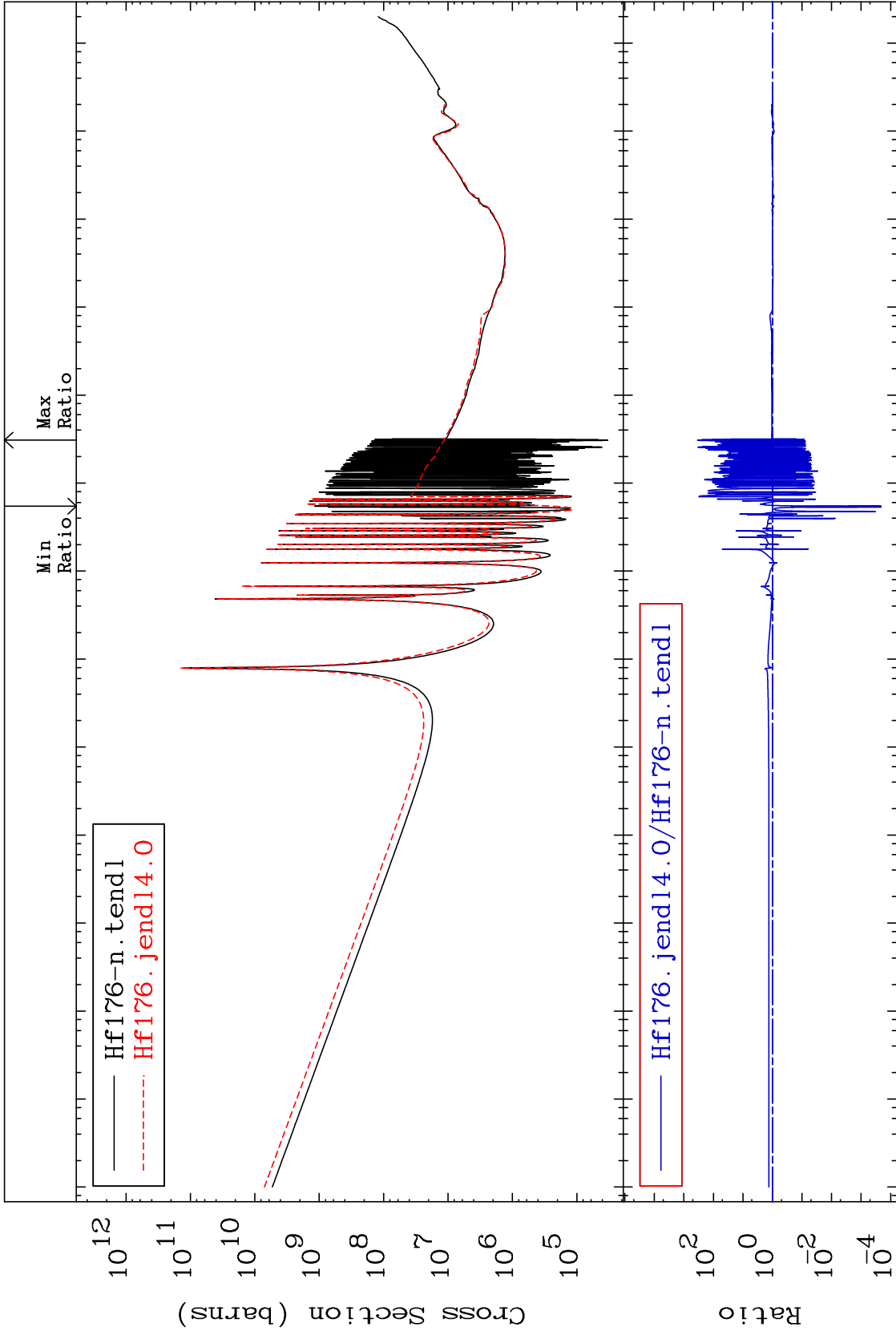
MAT 7231

Kerma total (eV-barns)

72-Hf-176

Cross Section

-99.98 To 9999. %



10^{12}

10^{11}

10^{10}

10^9

10^8

10^7

10^6

10^5

Cross Section (barns)

10^2

10^0

10^{-2}

10^{-4}

Ratio

10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8

51

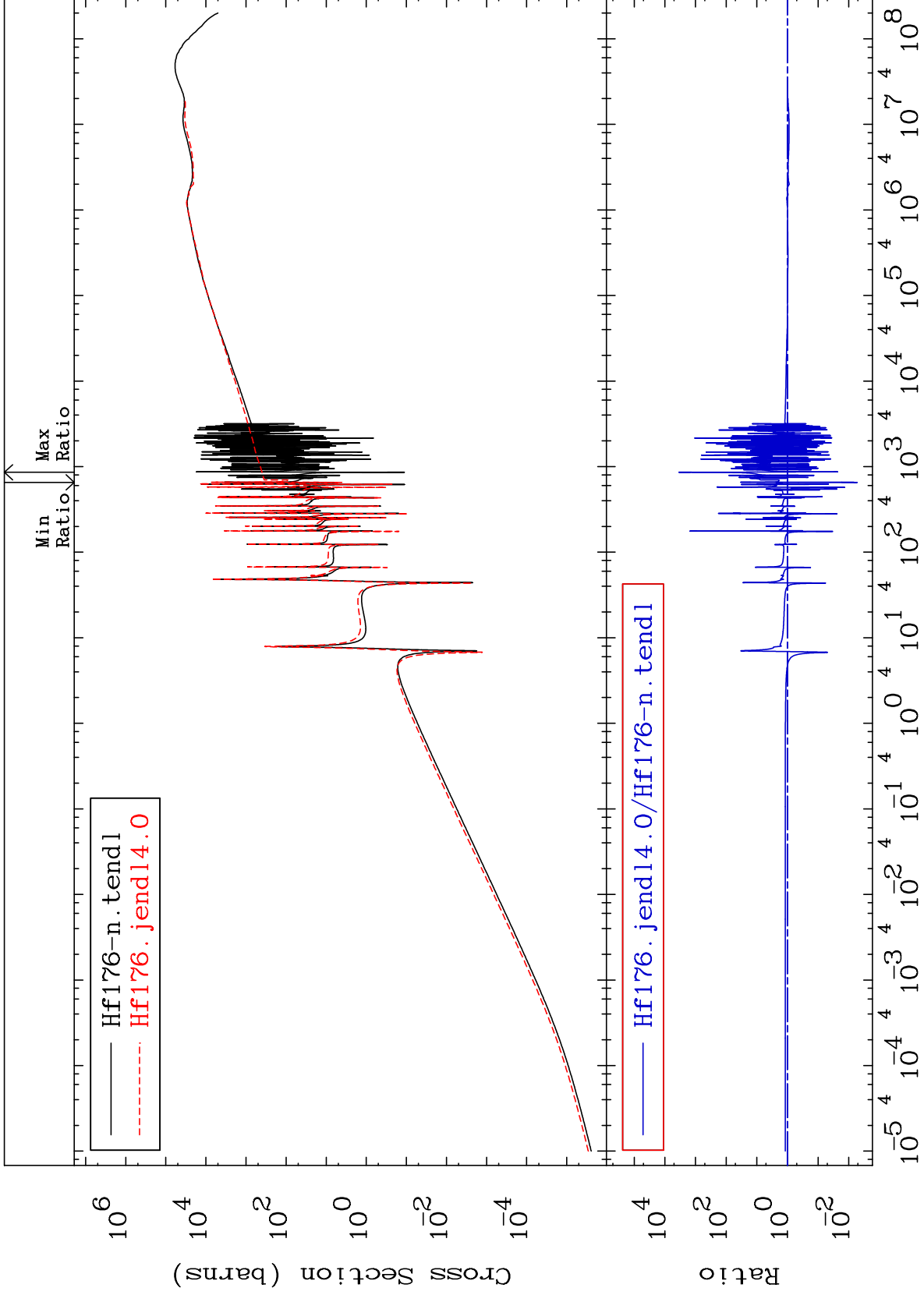
Incident Energy (eV)

72-Hf-176

MAT 7231

Kerma elastic
Cross Section

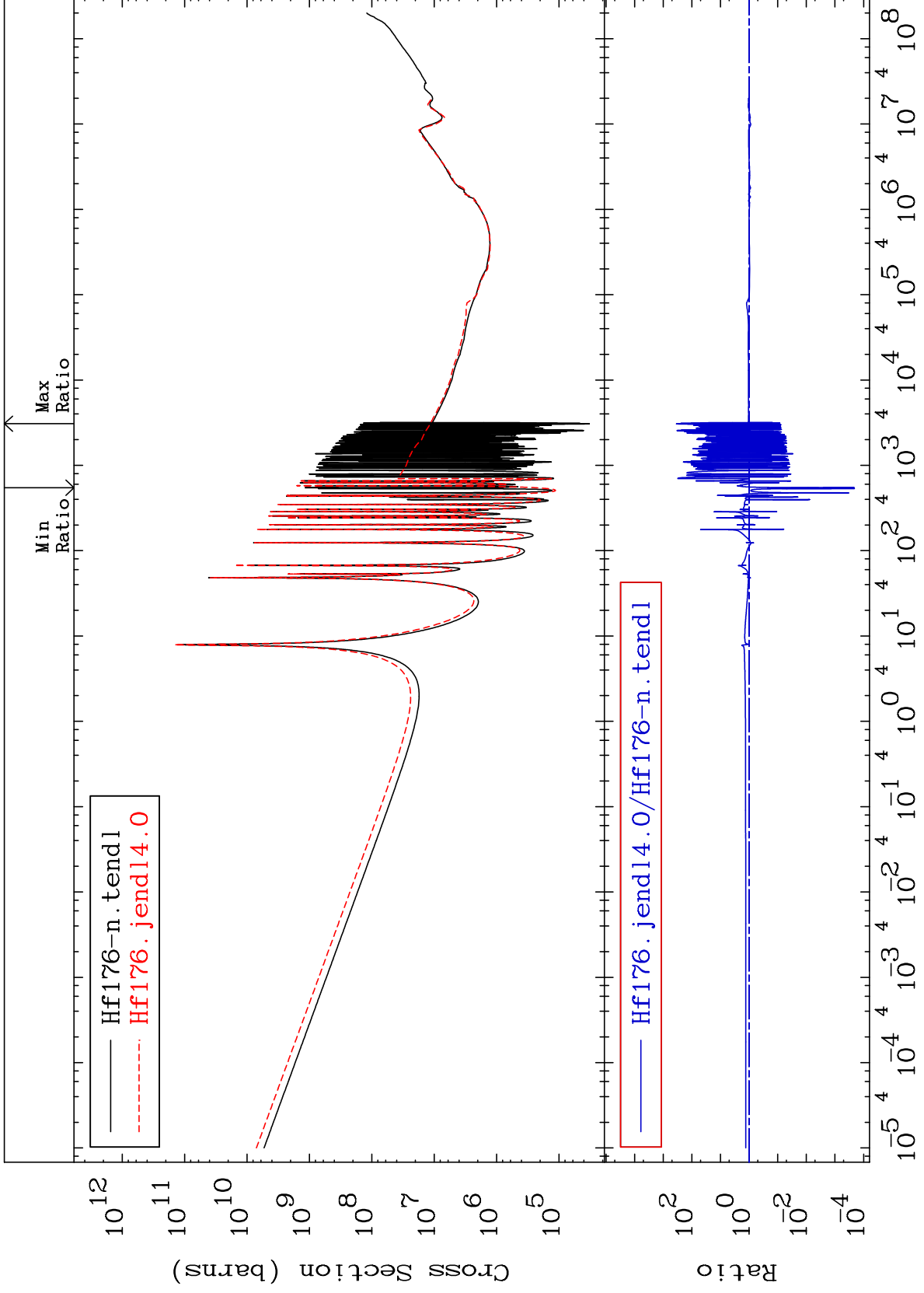
72-Hf-176
-99.47 To 9999. %

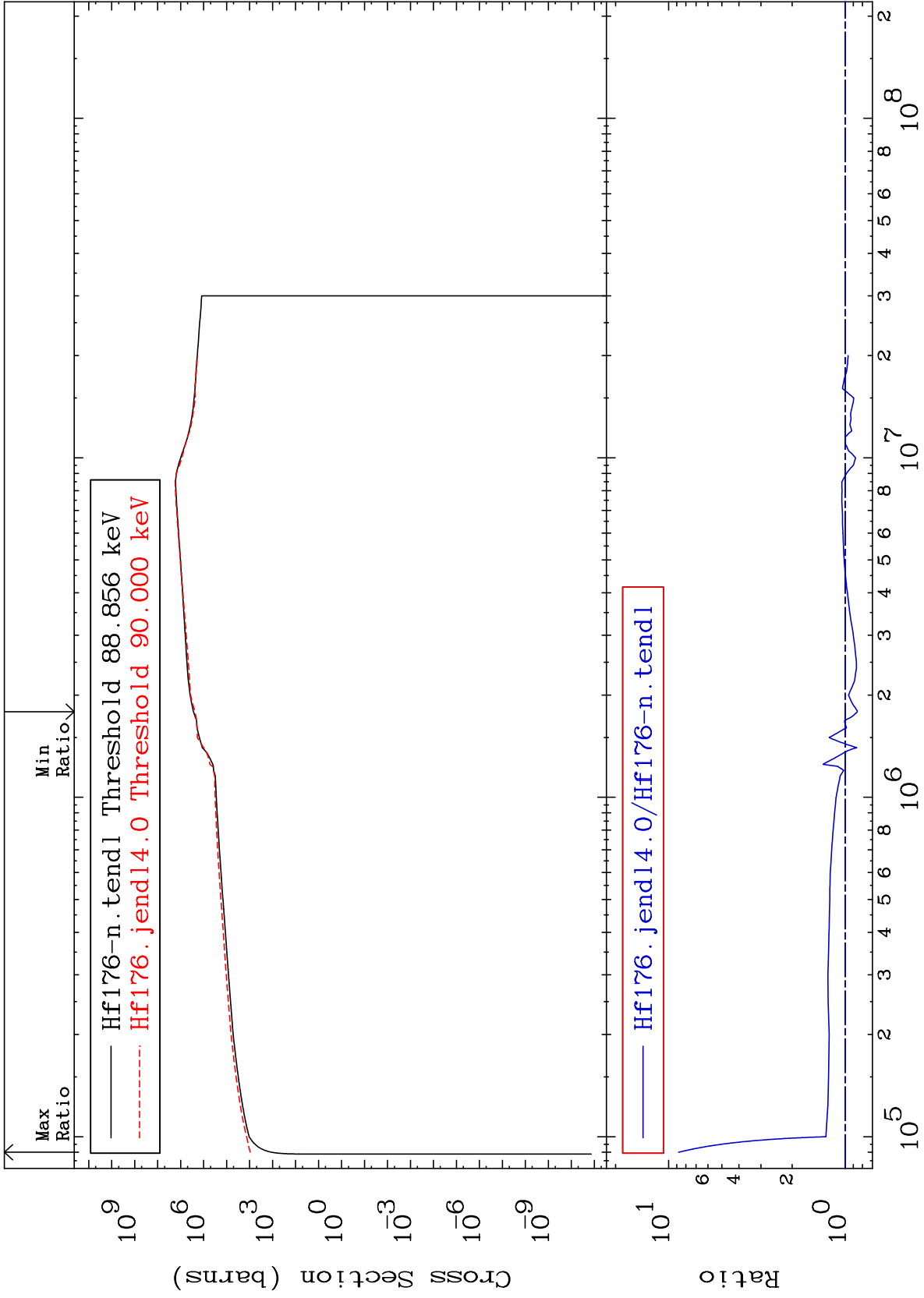


MAT 7231

Kerma non-elastic (all but mt2)
Cross Section

72-Hf-176
-99.98 To 9999. %

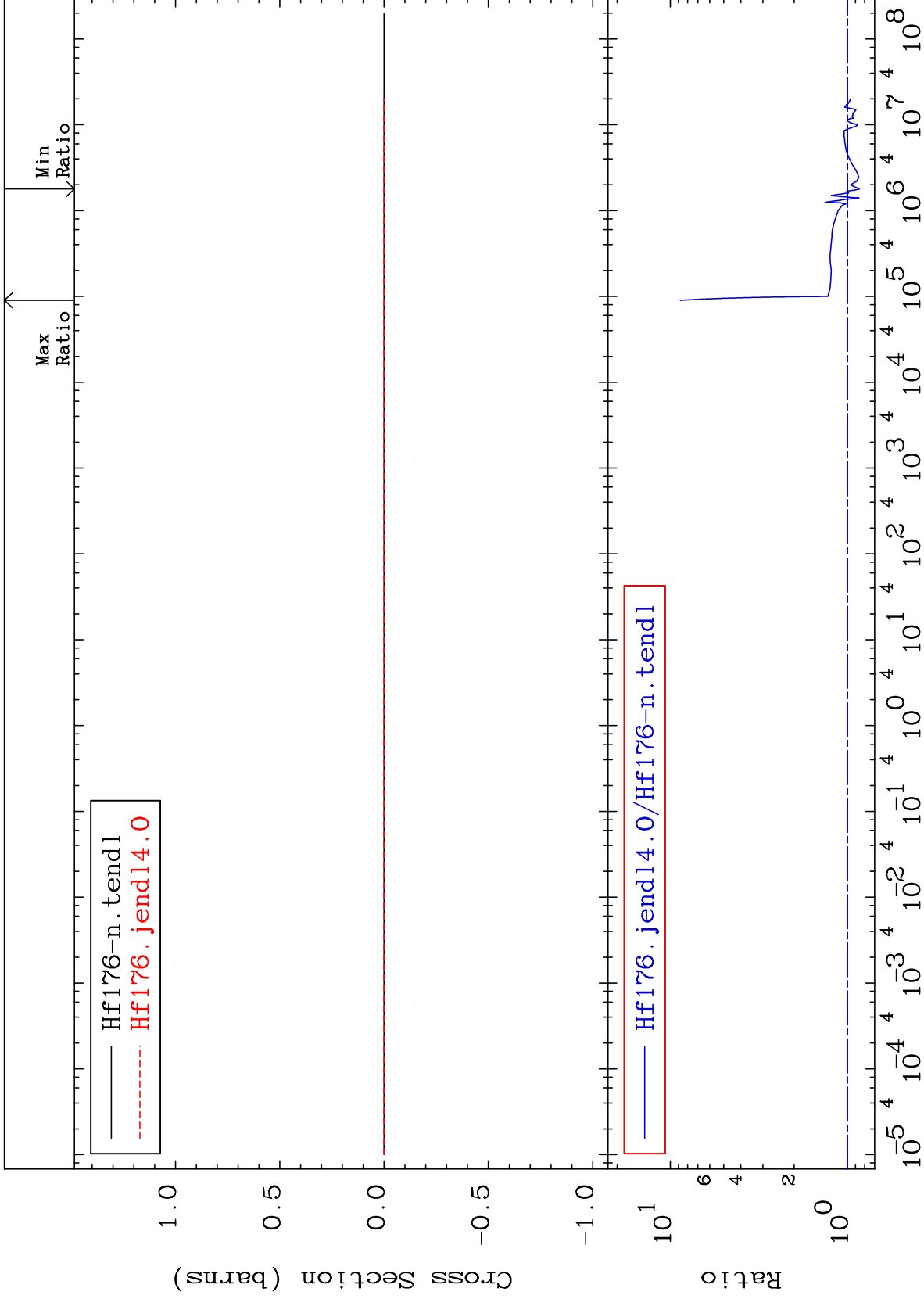




MAT 7231

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

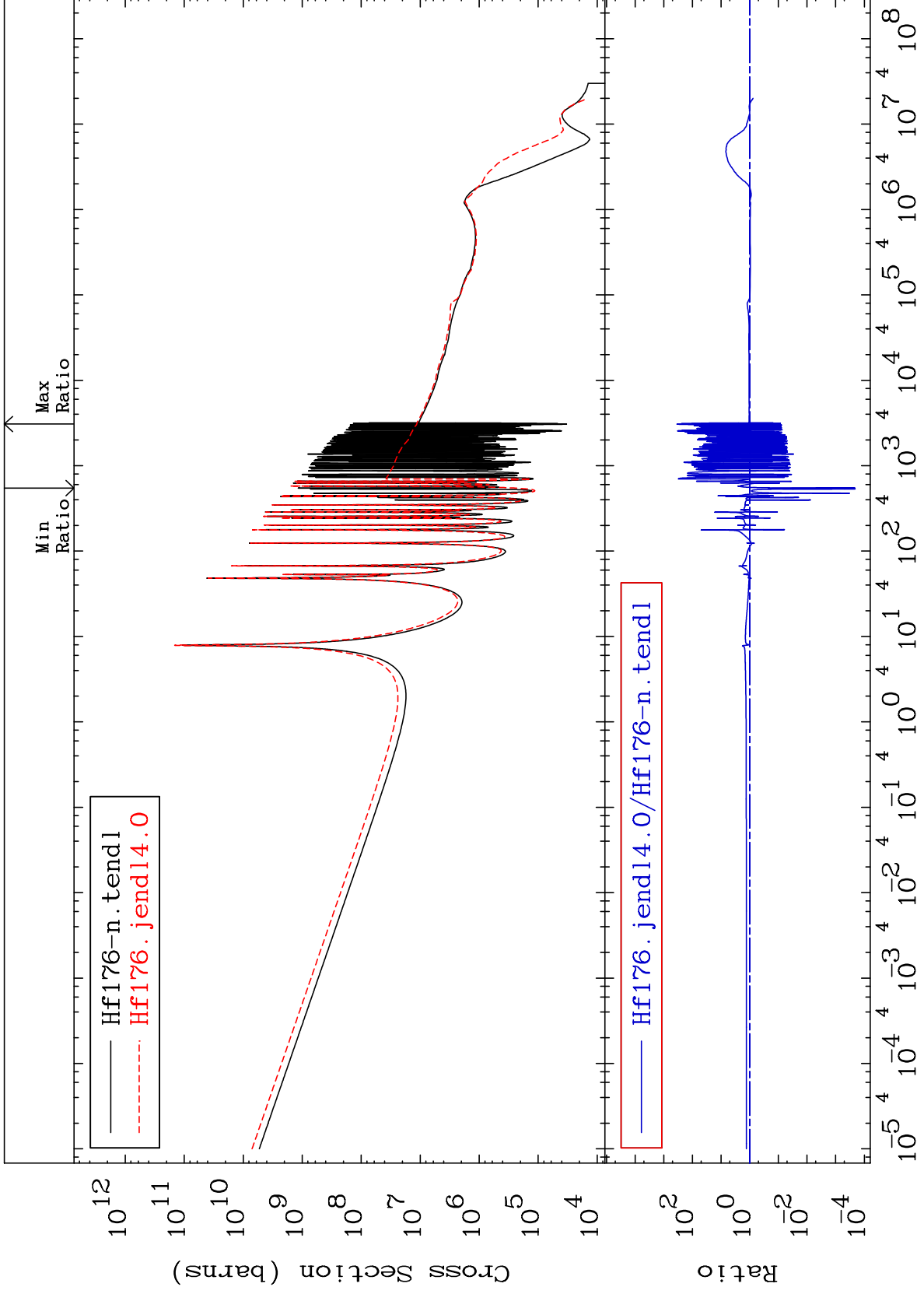
72-Hf-176
-14.47 To 778.6 %



MAT 7231

Kerma capture (mt102)
Cross Section

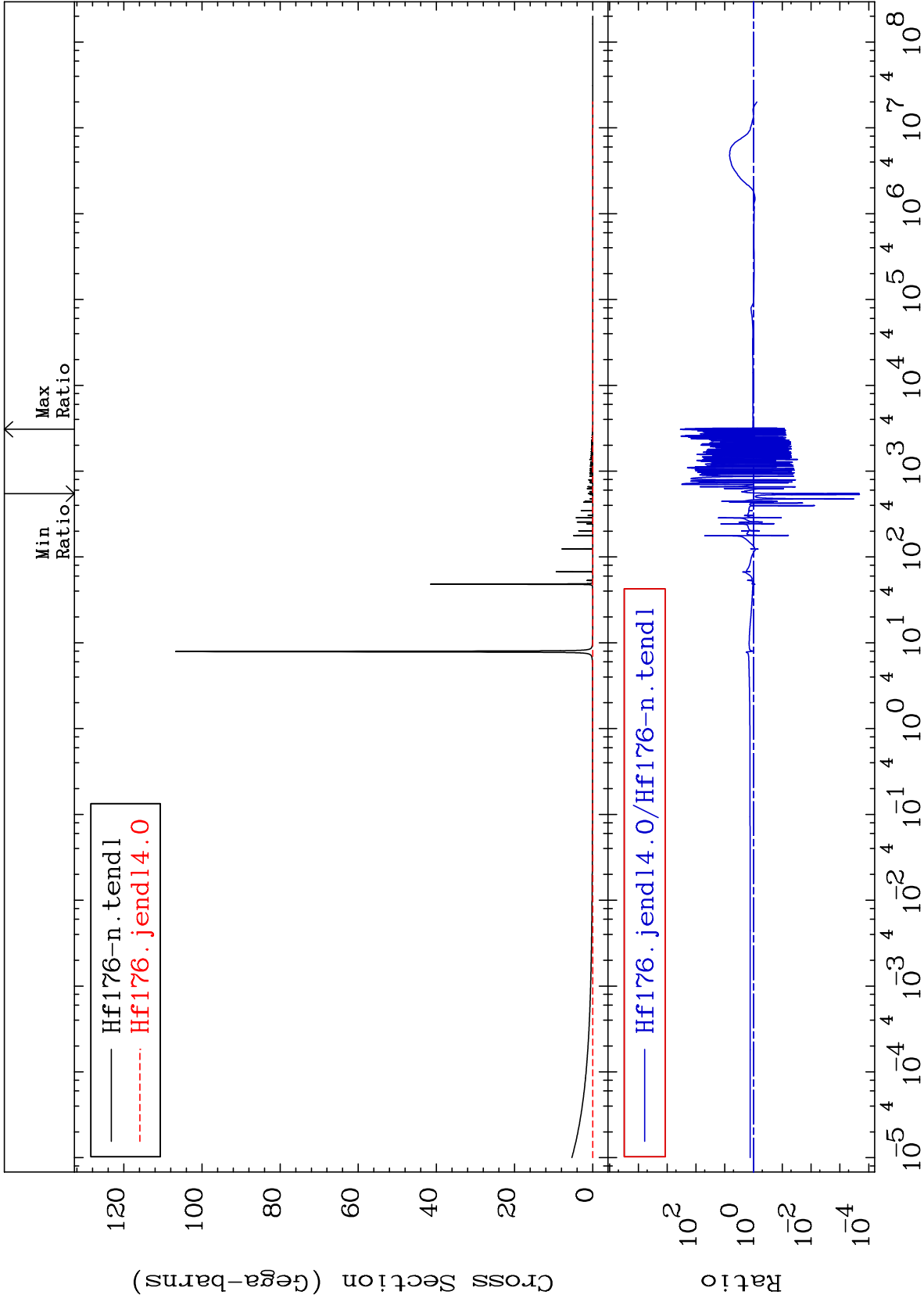
72-Hf-176
-99.98 To 9999. %



MAT 7231

Total photon (eV-barns)
Cross Section

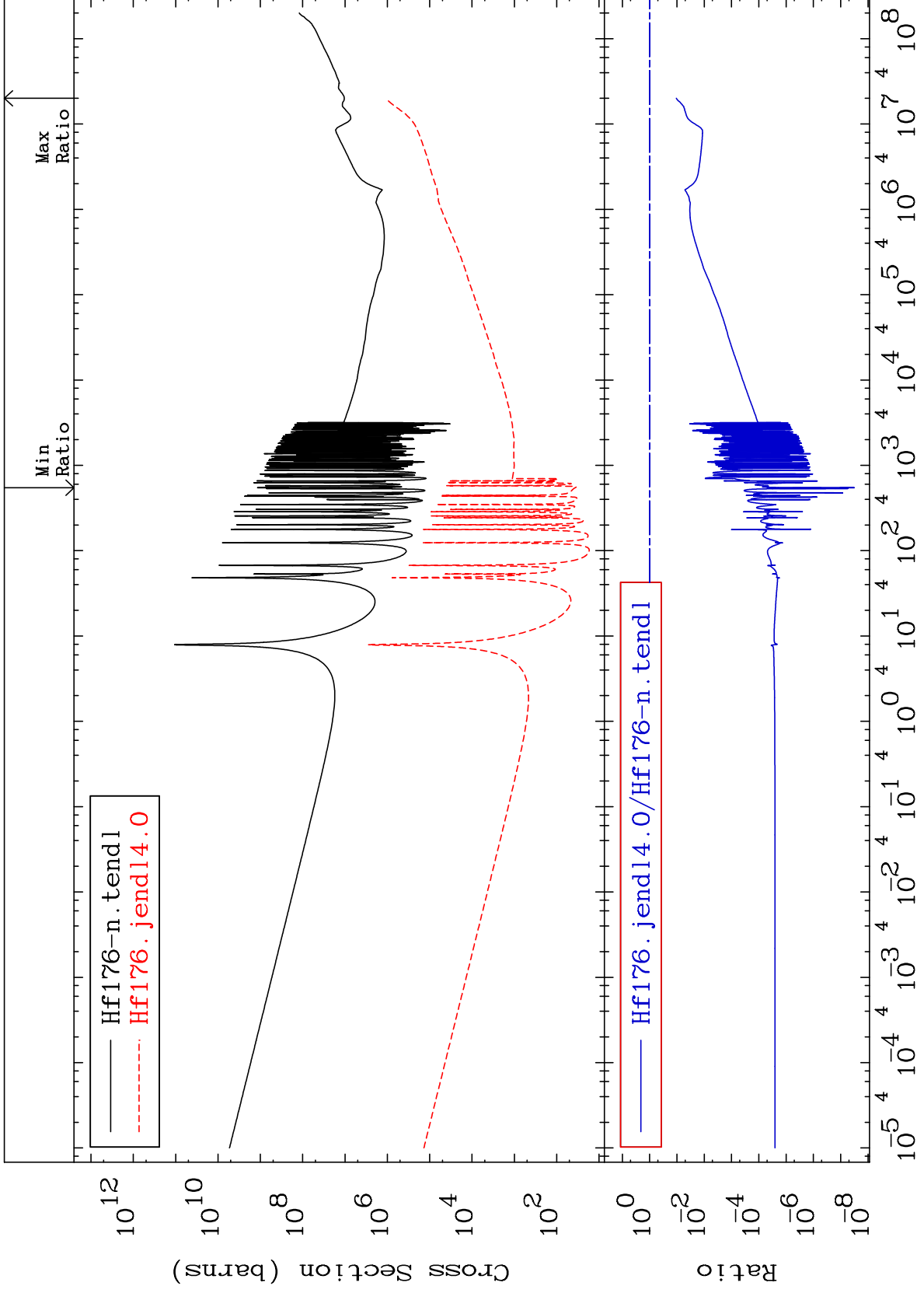
72-Hf-176
-99.98 To 9999. %

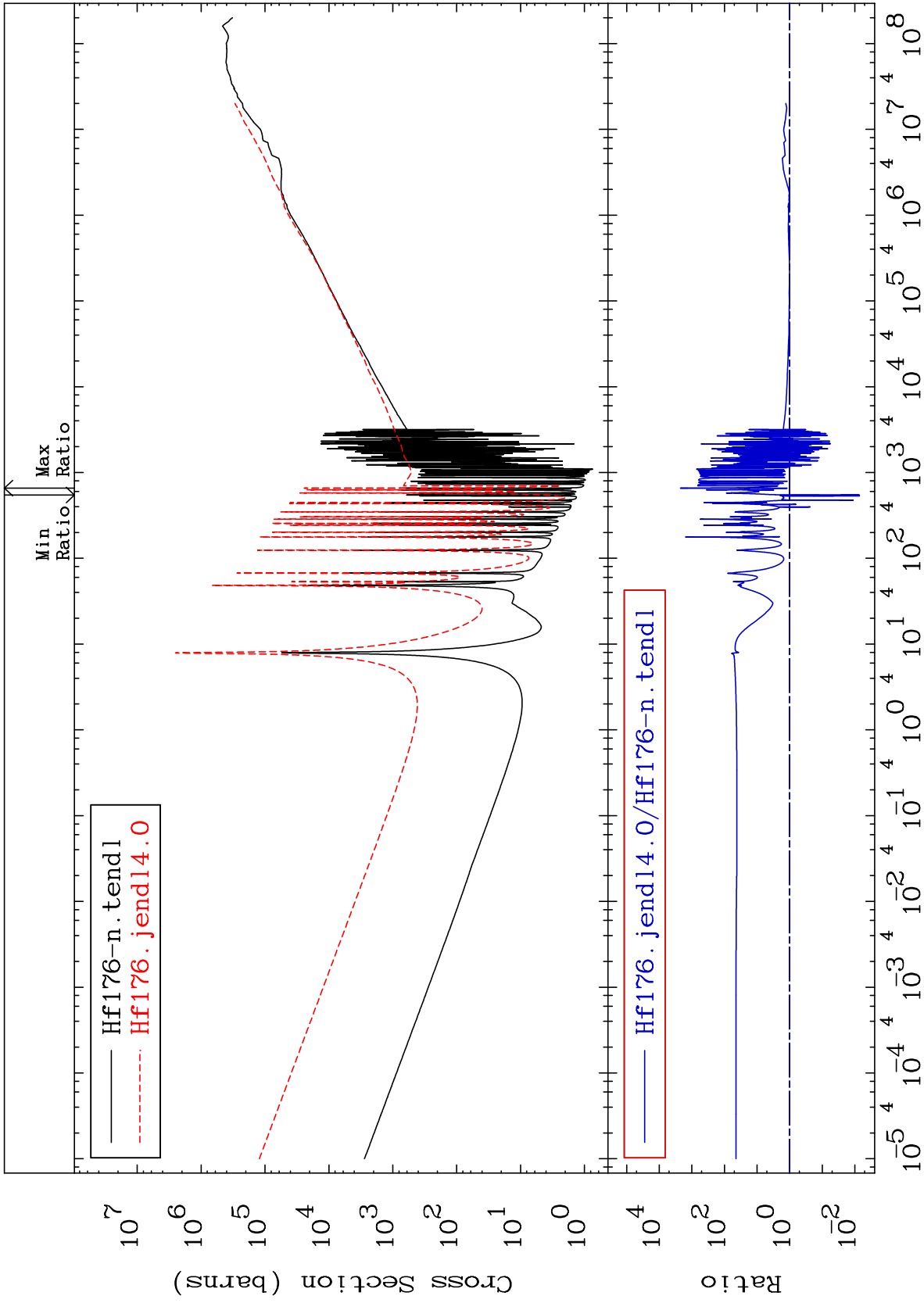


MAT 7231

Total kinematic kerma (high limit)
Cross Section

72-Hf-176
-100.0 To -89.50%

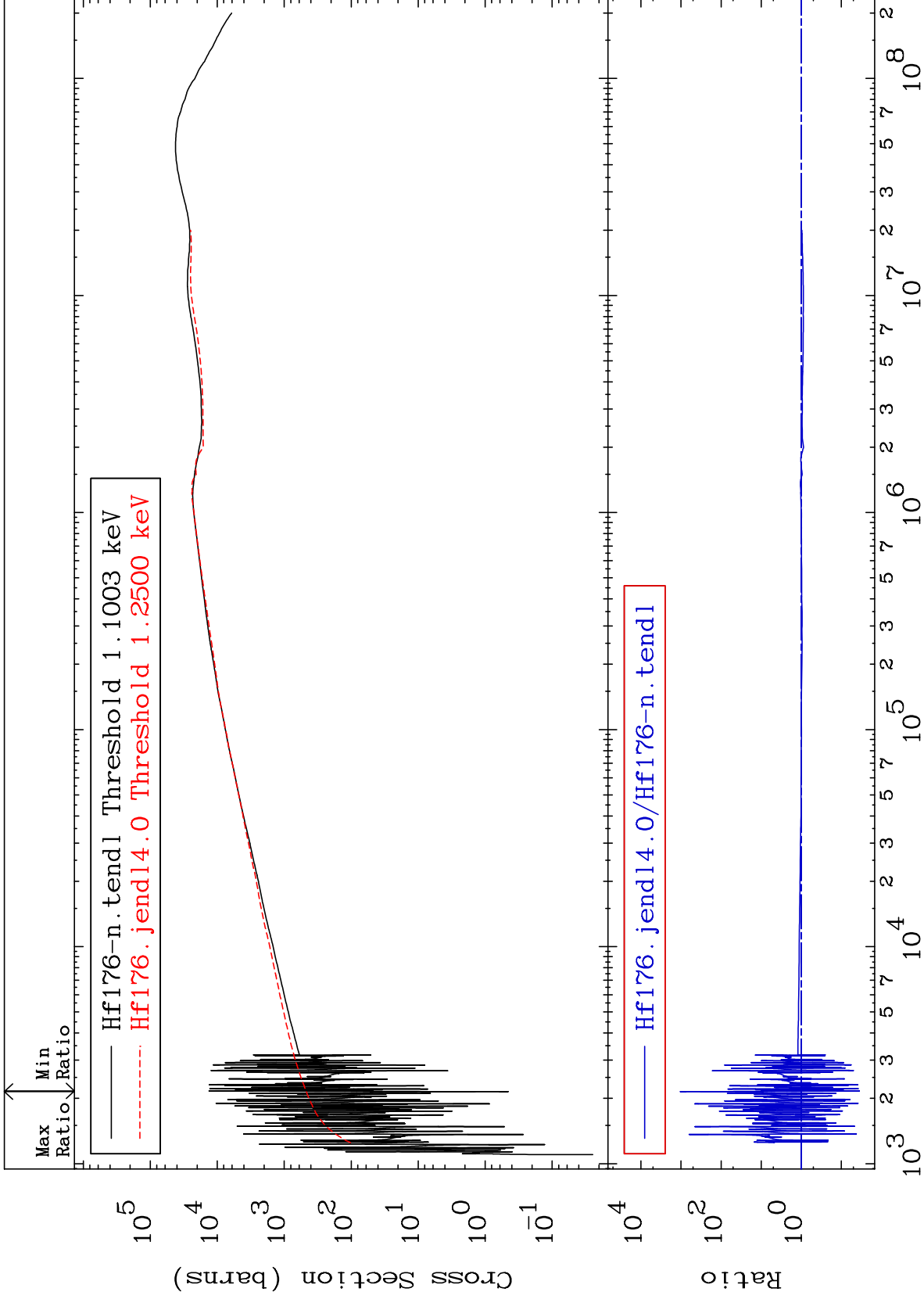




MAT 7231

Dpa elastic (mt2)
Cross Section

72-Hf-176
-96.47 To 9999. %



60

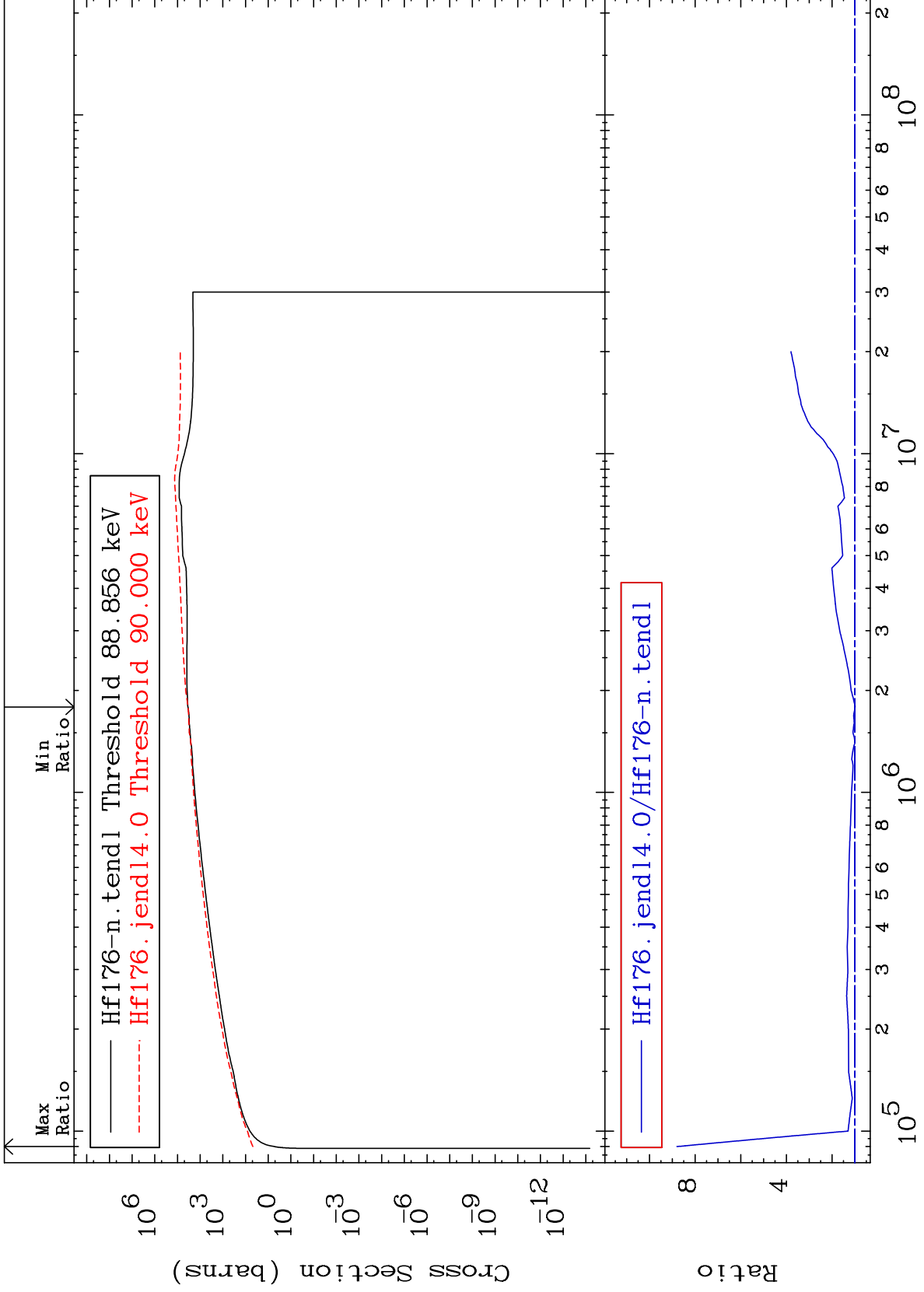
Incident Energy (eV)

72-Hf-176

MAT 7231

Dpa inelastic (mt51-91)
Cross Section

72-Hf-176
-1.302 To 780.0 %



61

Incident Energy (eV)

72-Hf-176

