

Program Complot
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

U.S.A.

Tele: 925-443-1911

E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

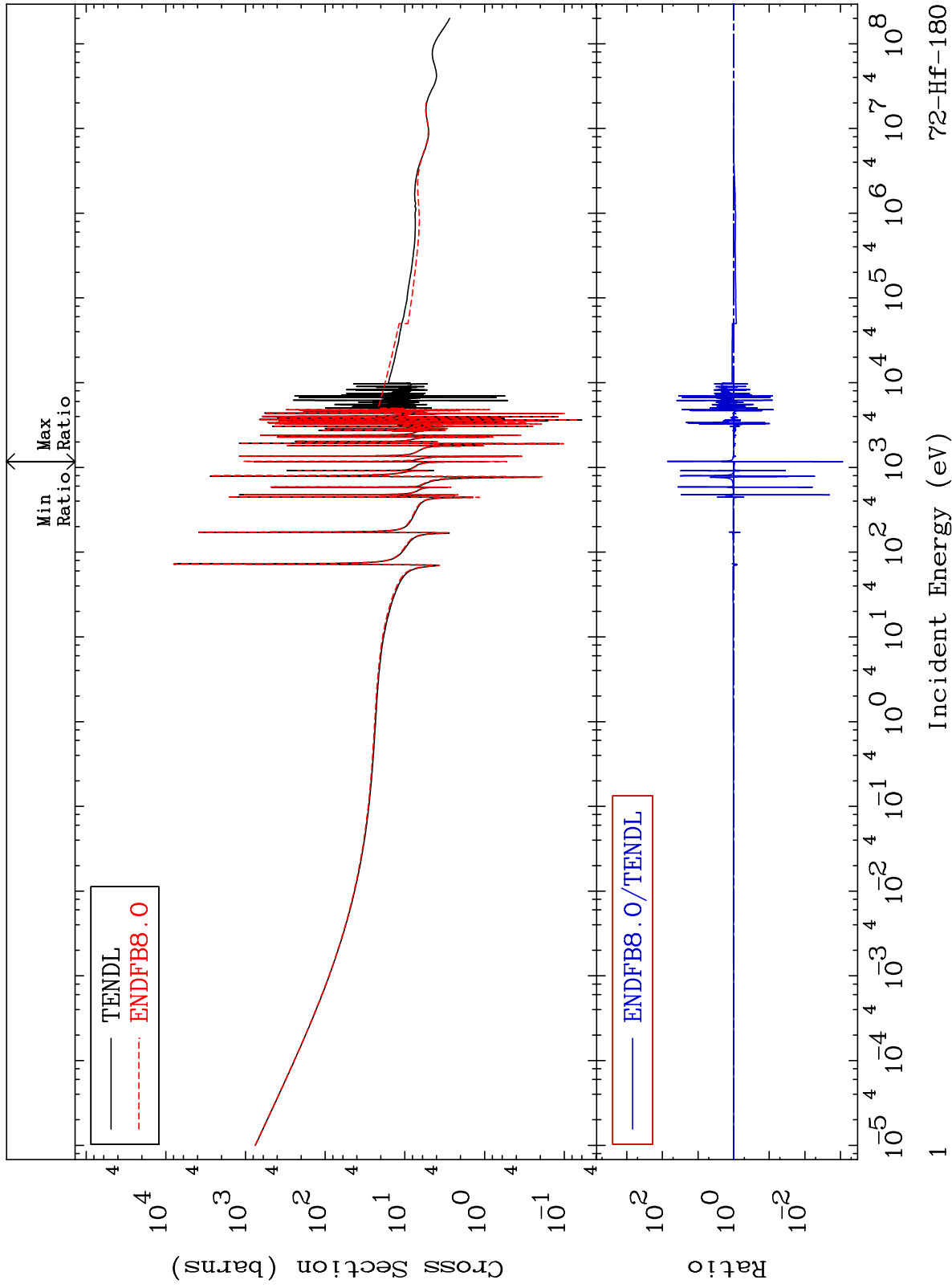
MAT 7243

Total

⁷²Hf-180

-99.91 To 7074. %

Cross Section



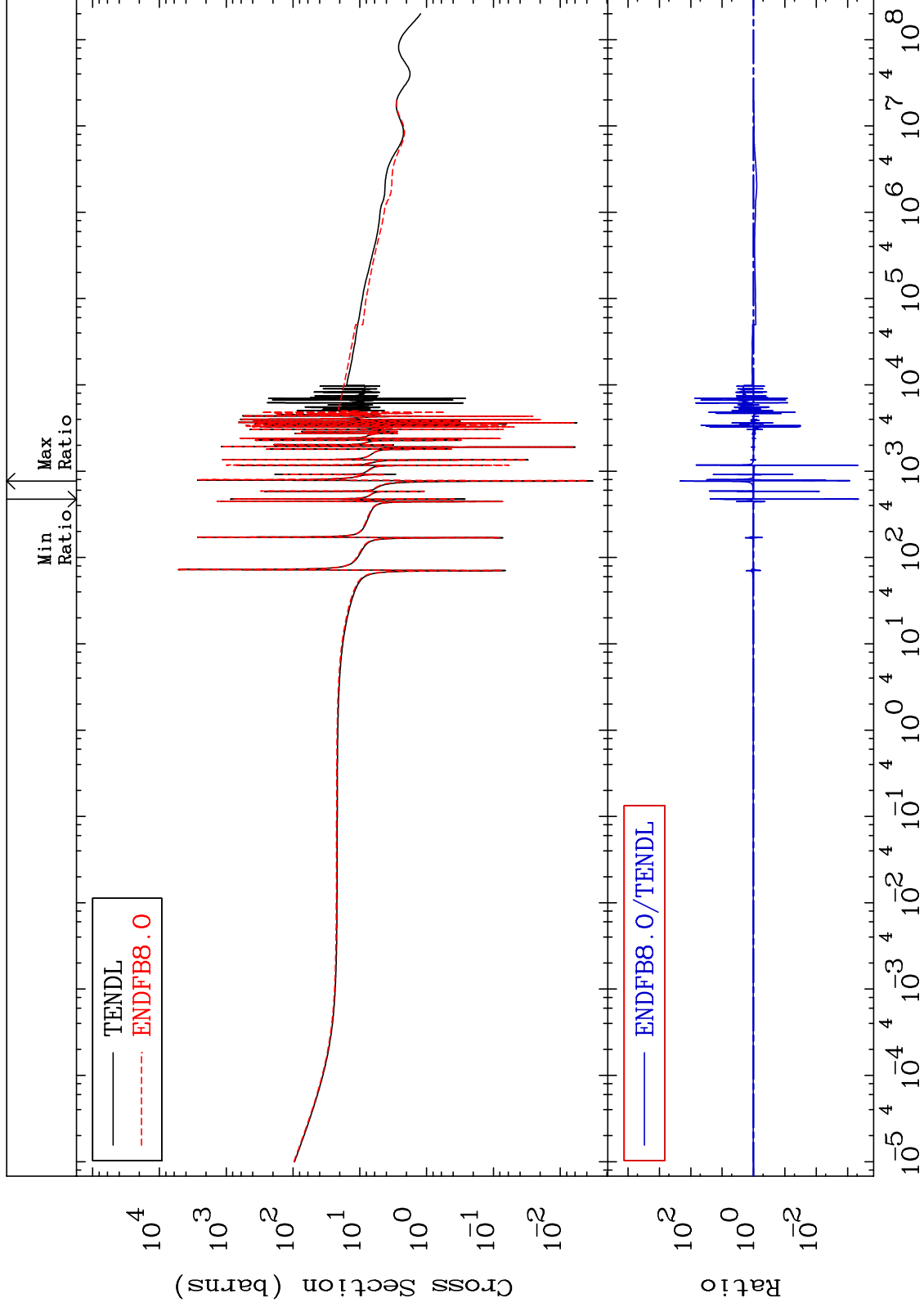
MAT 7243

Elastic

72-Hf-180

Cross Section

-99.95 To 9999. %

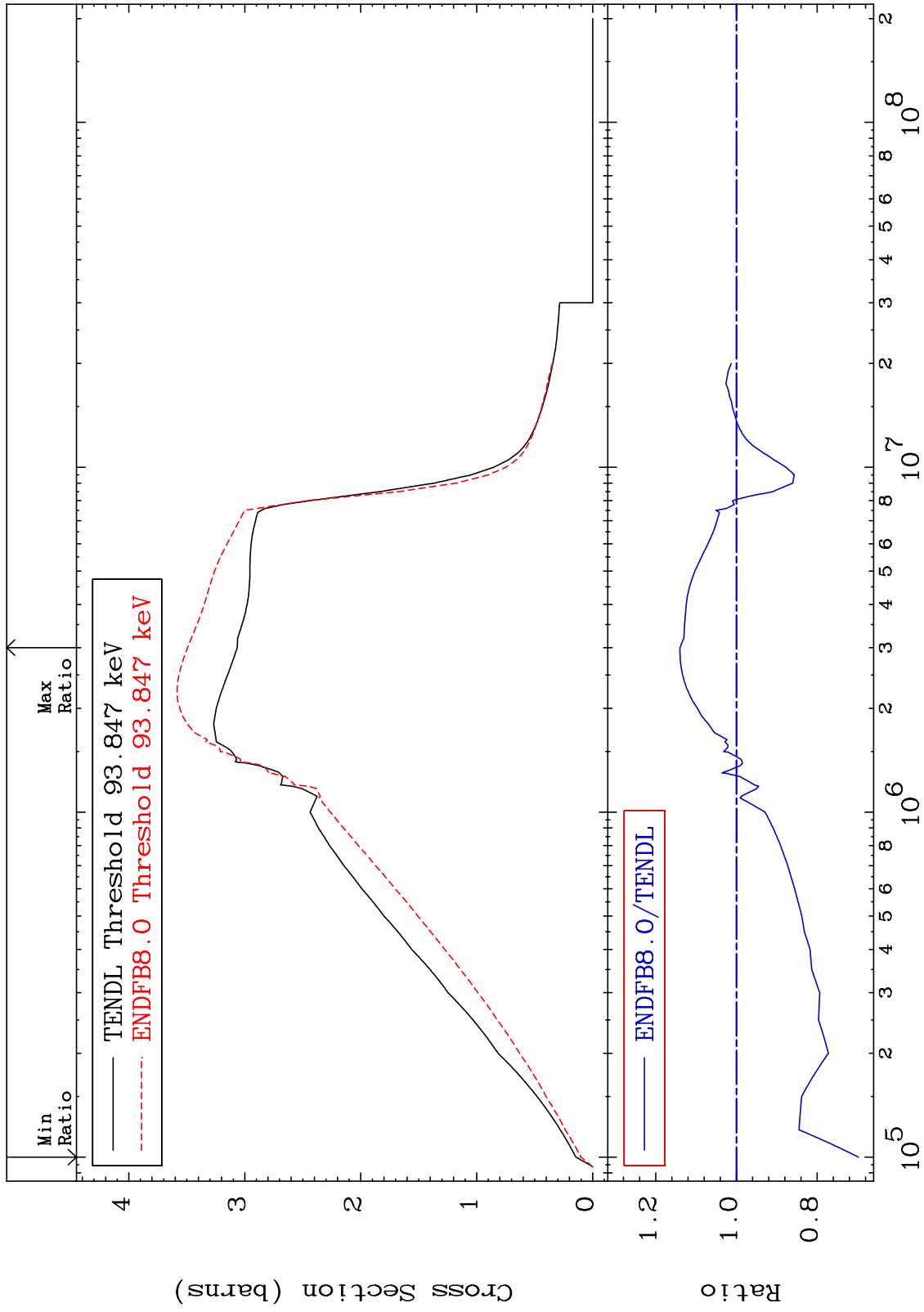


MAT 7243

⁷²Hf-180

-30.23 To 13.97 %

Inelastic
Cross Section



Incident Energy (eV)

⁷²Hf-180

3

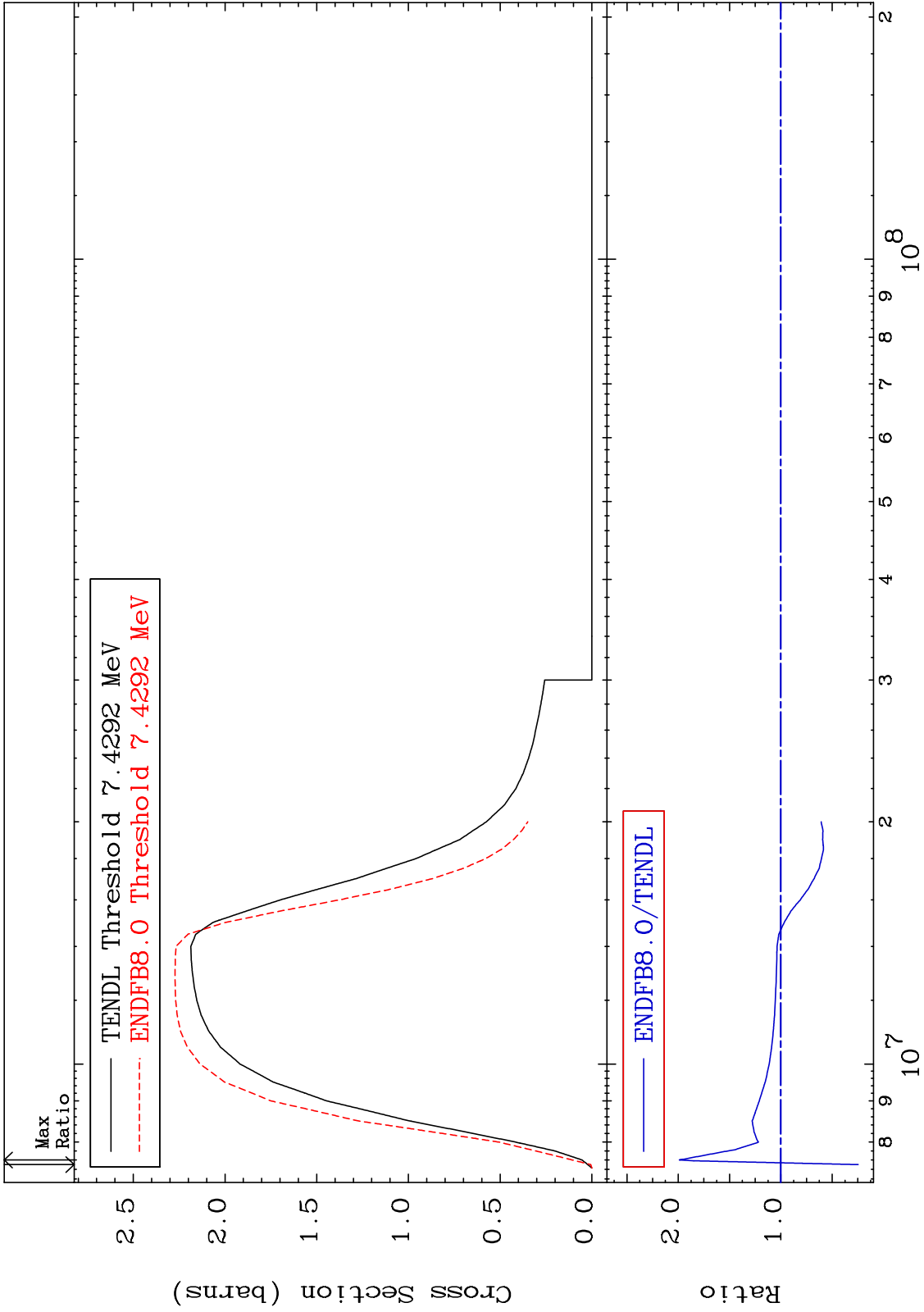
MAT 7243

(n,2n)

⁷²Hf-180

Cross Section

-75.42 To 98.89 %



MAT 7243

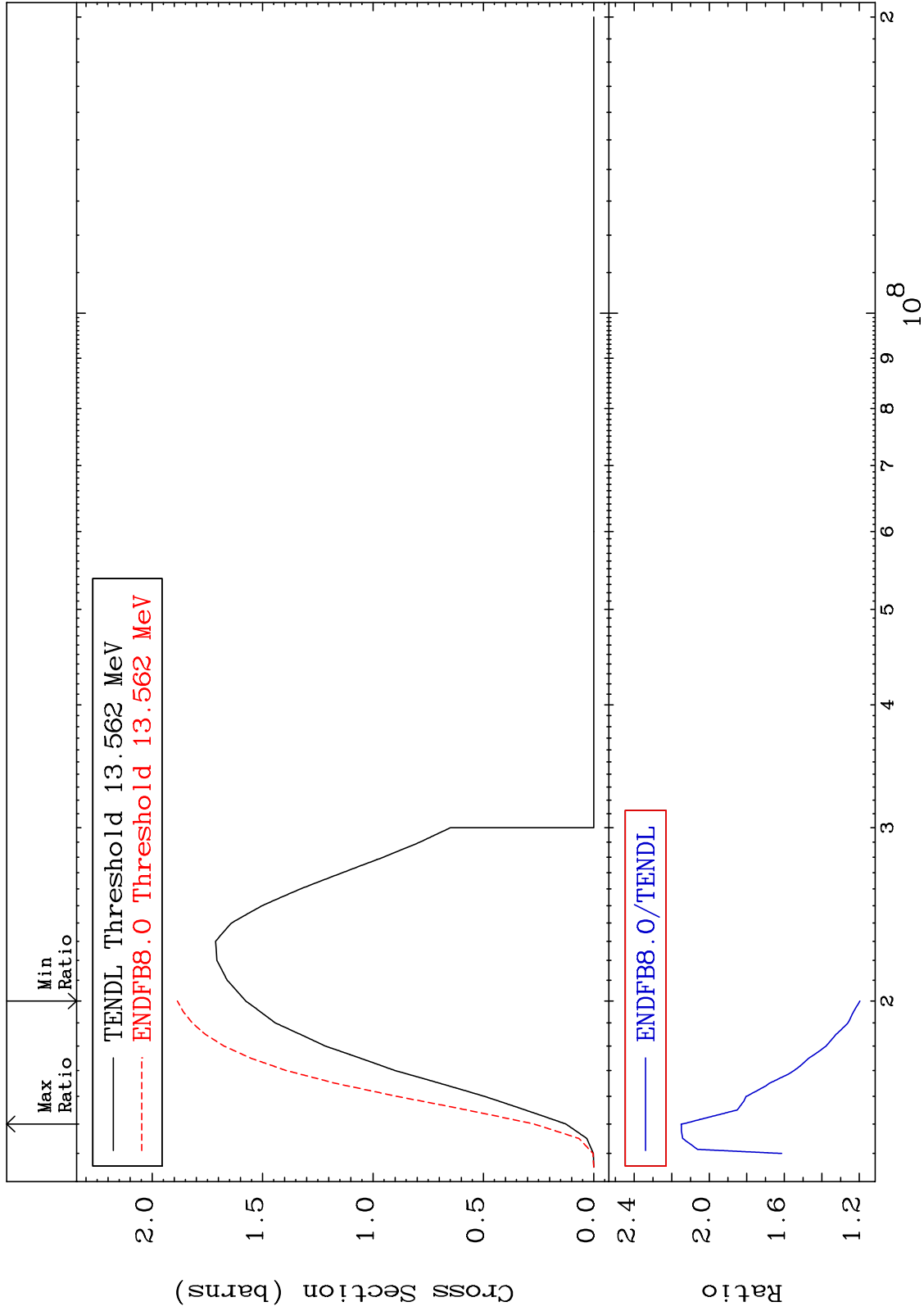
(n, 3n)

⁷²Hf-180

Cross Section

19.67

To 114.9 %



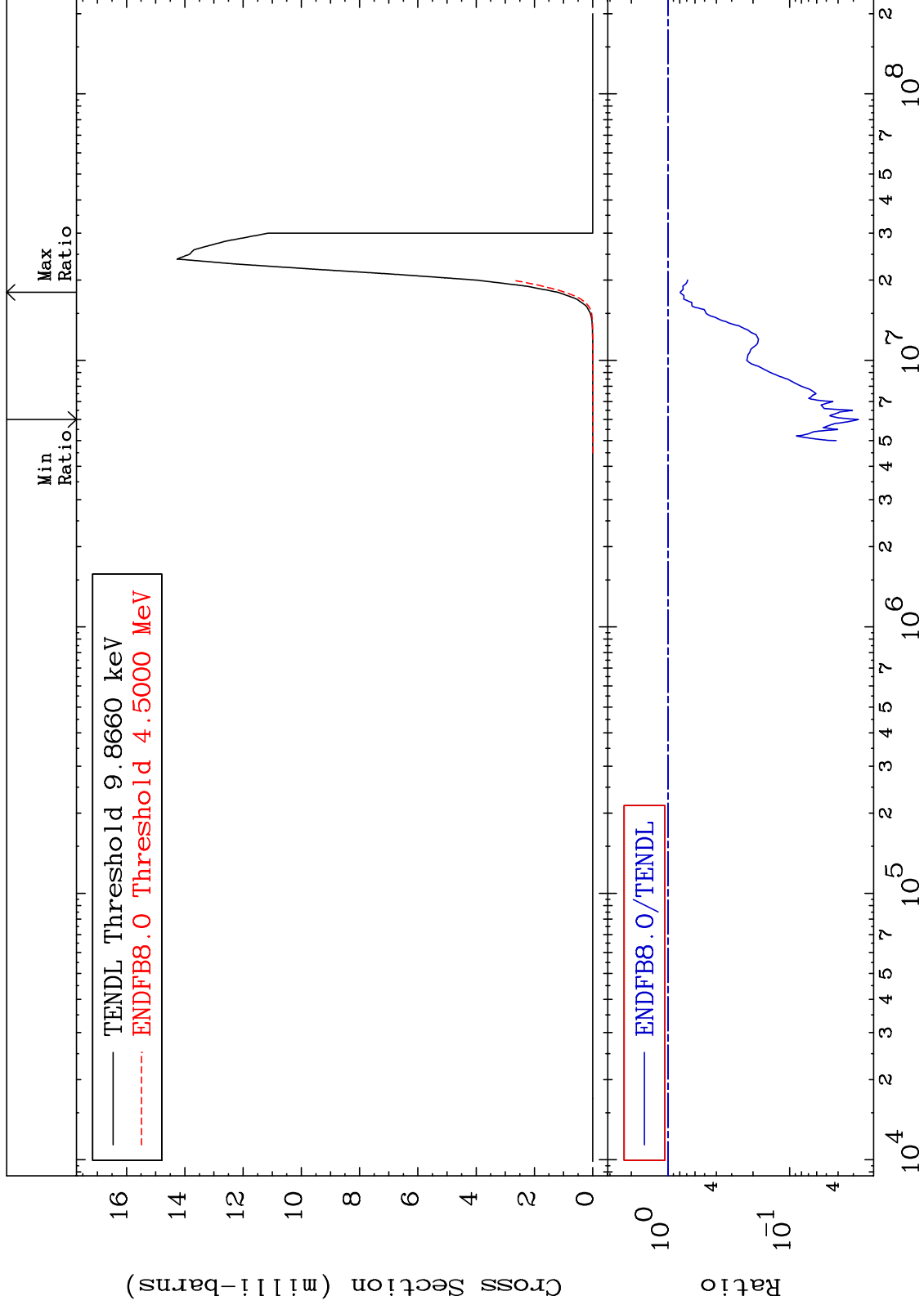
MAT 7243

(n, n') α

Cross Section

72-Hf-180

-97.28 To -20.45%



Incident Energy (eV)

72-Hf-180

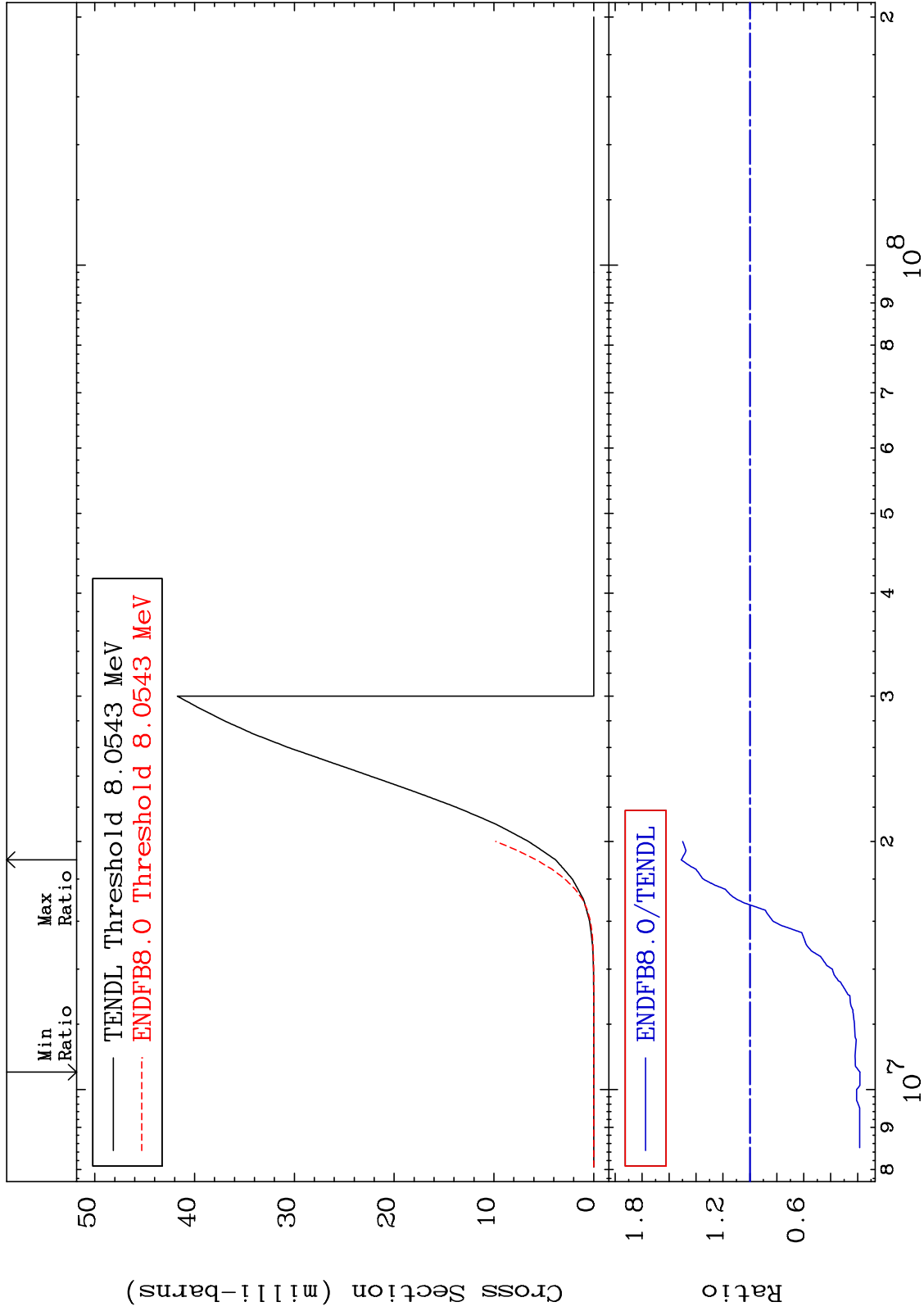
MAT 7243

(n,n') p

72-Hf-180

Cross Section

-81.69 To 50.98 %



7

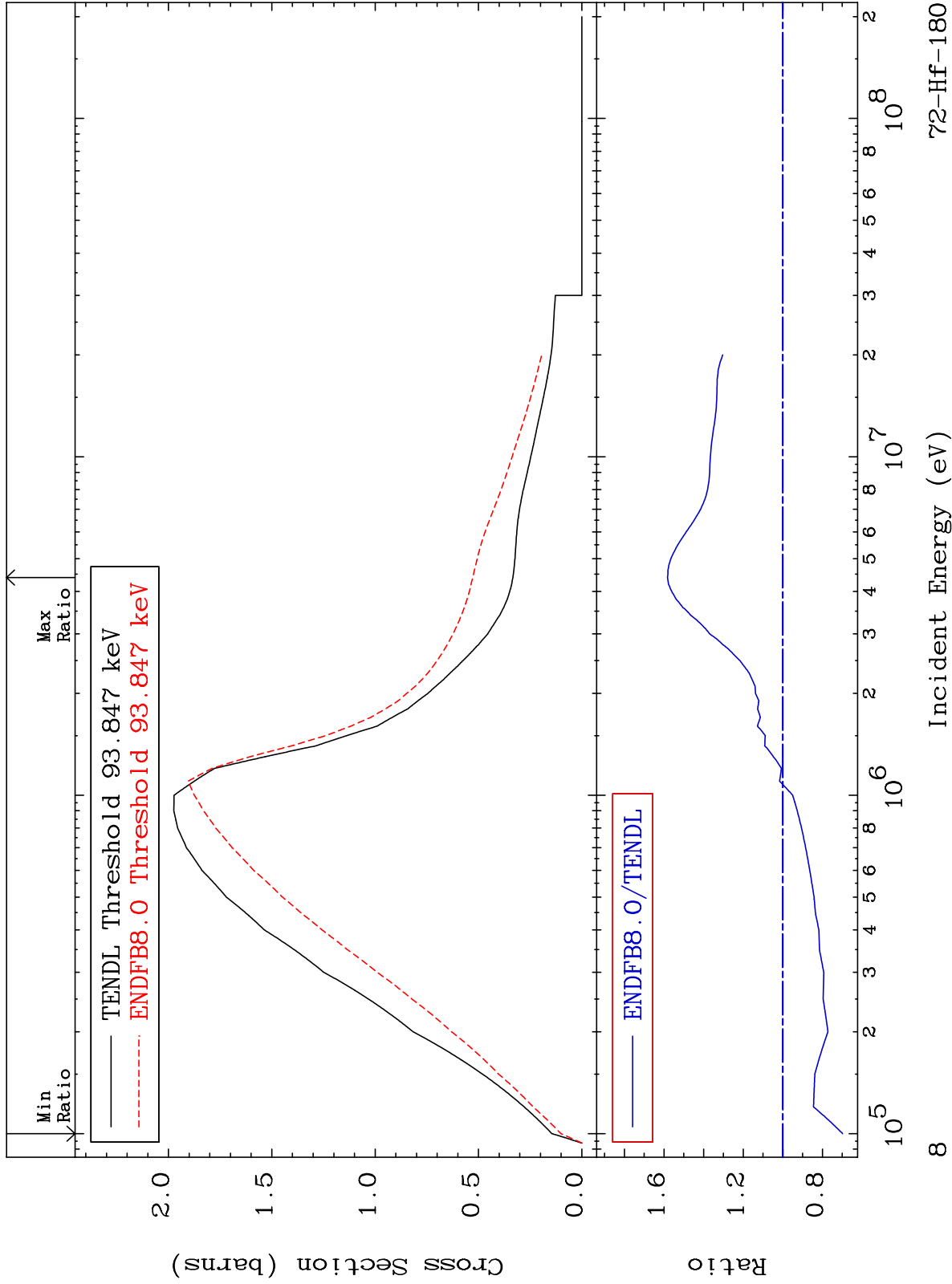
Incident Energy (eV)

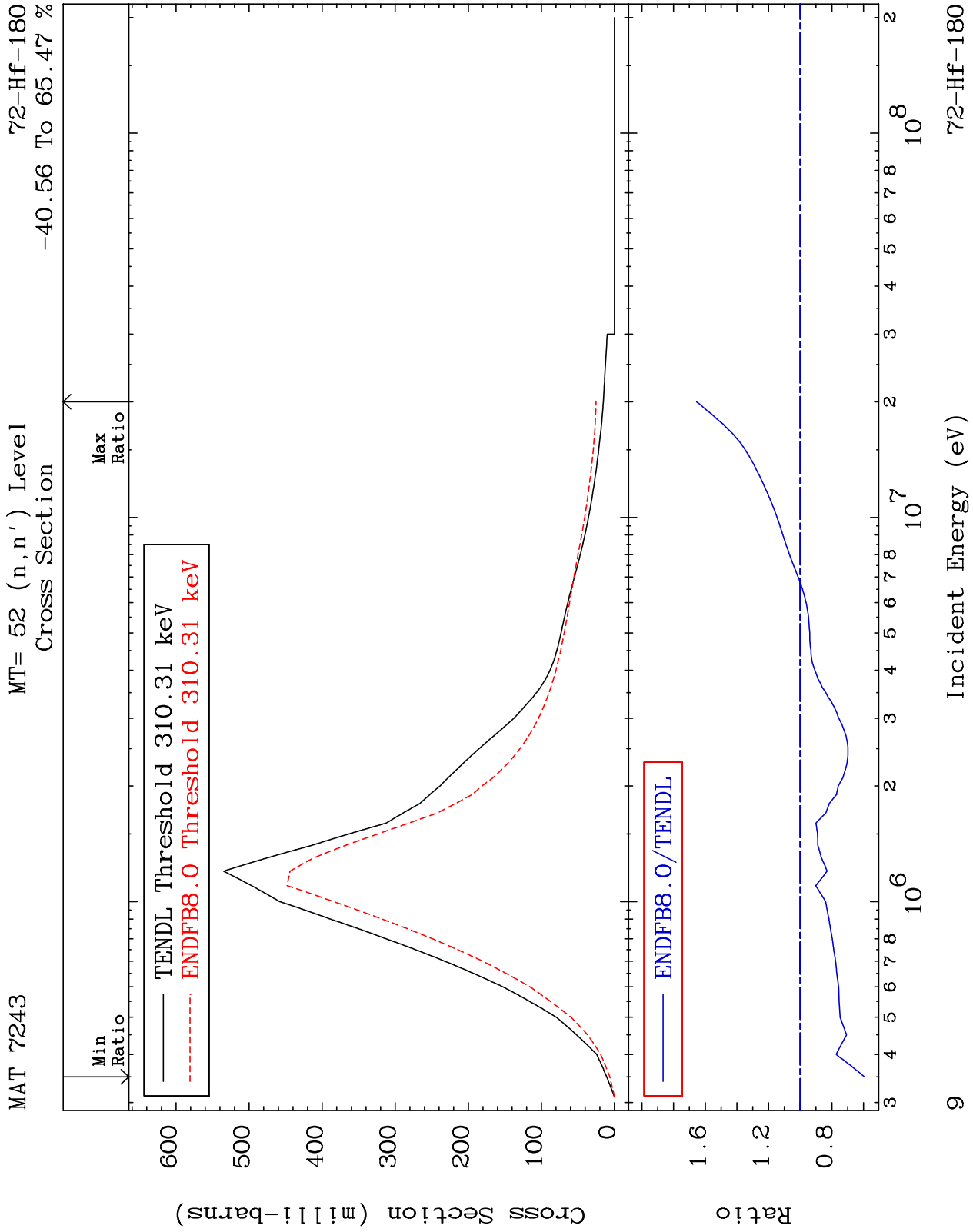
72-Hf-180

MAT 7243

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

72-Hf-180
-30.23 To 58.19 %

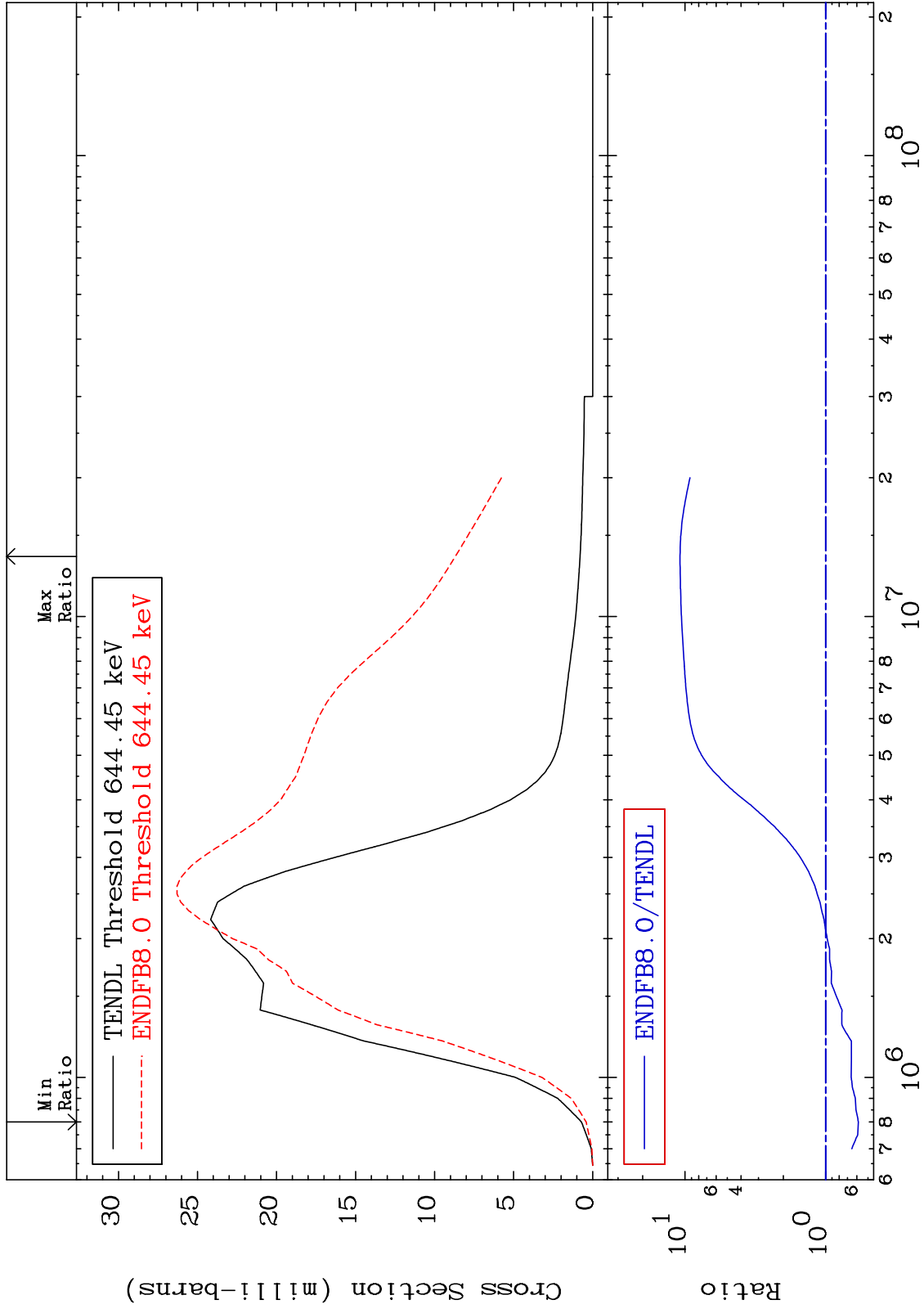




MAT 7243

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

72-Hf-180
-41.52 To 985.5 %



10

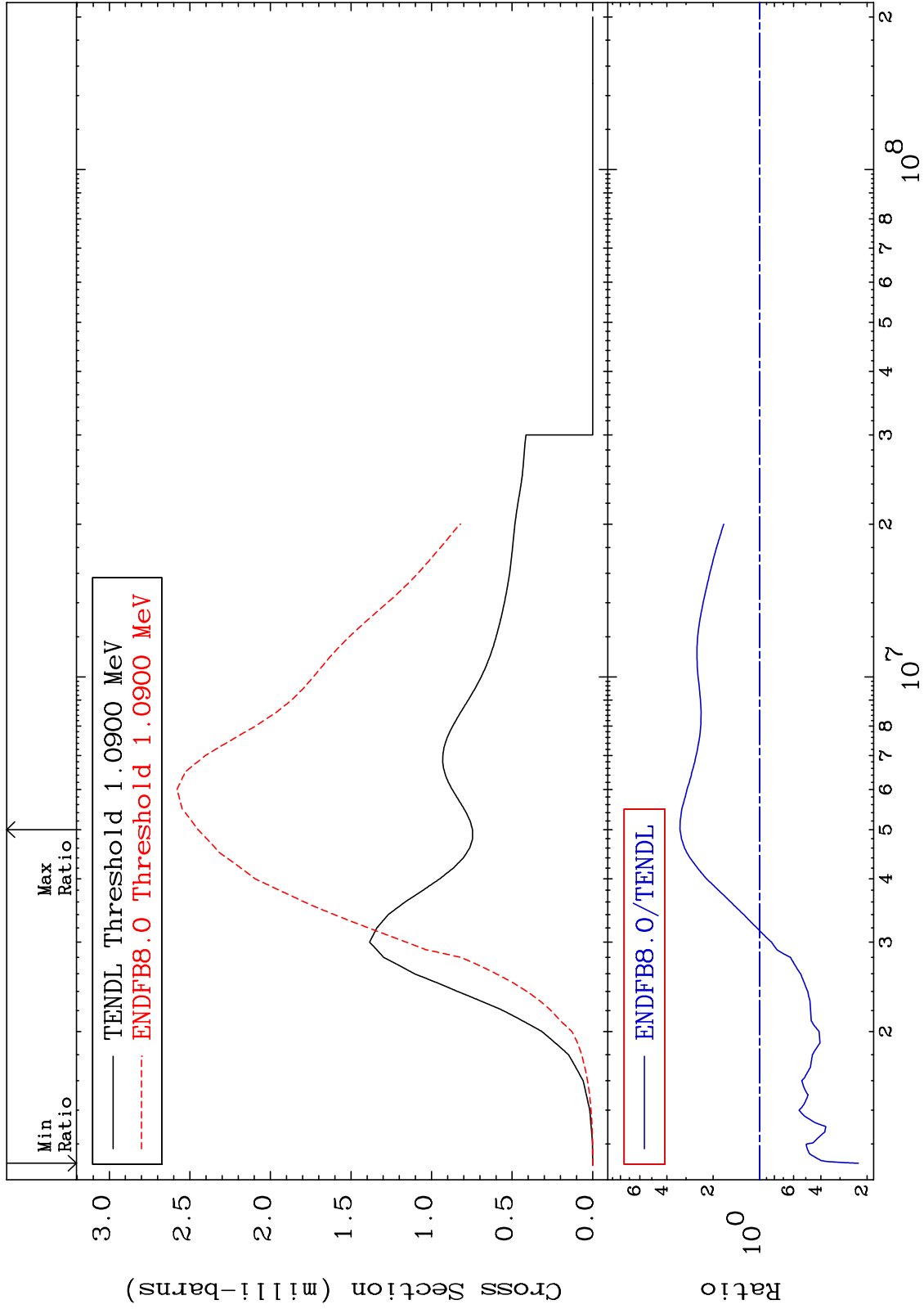
Incident Energy (eV)

72-Hf-180

MAT 7243

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

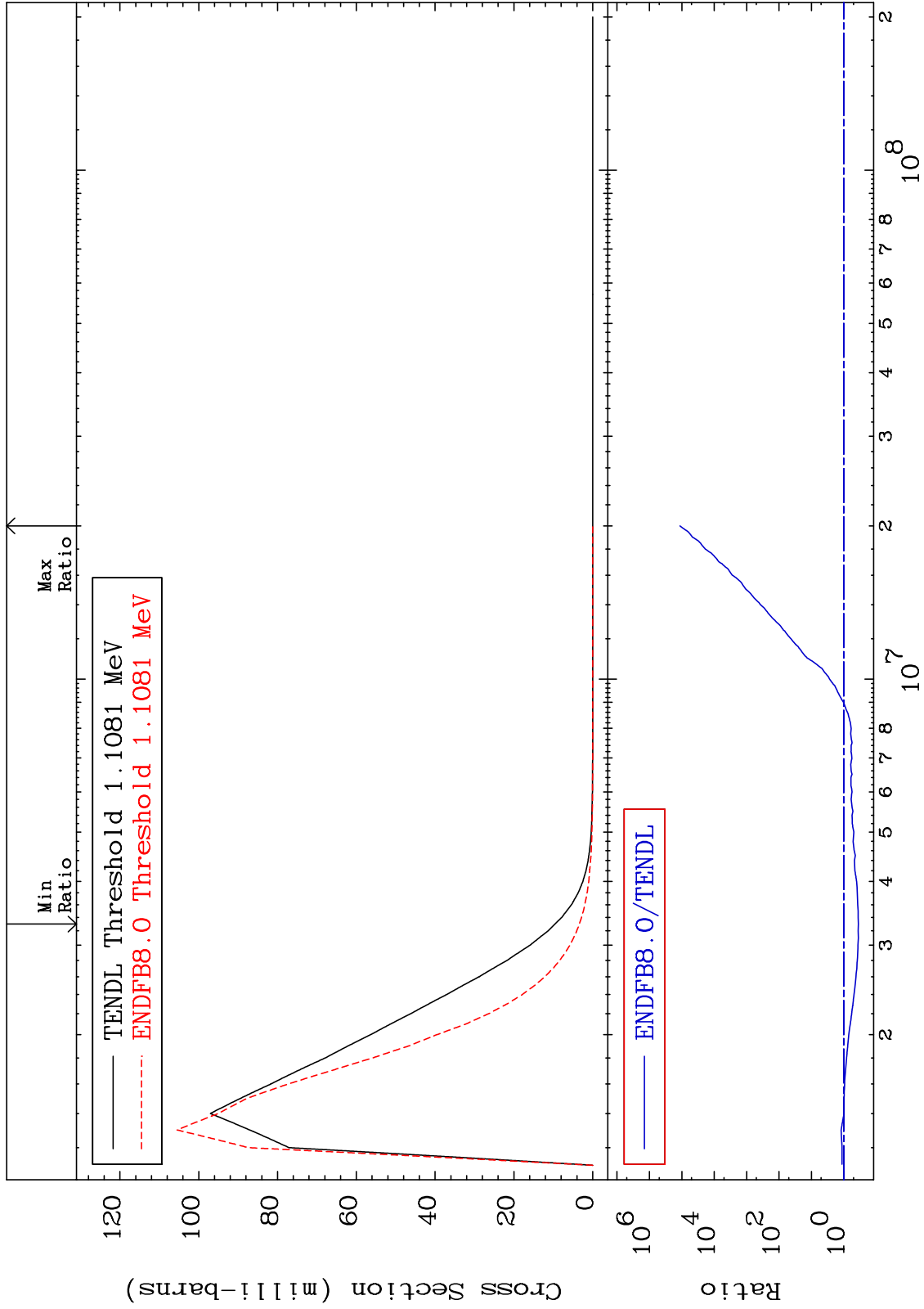
72-Hf-180
-77.22 To 228.4 %



MAT 7243

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

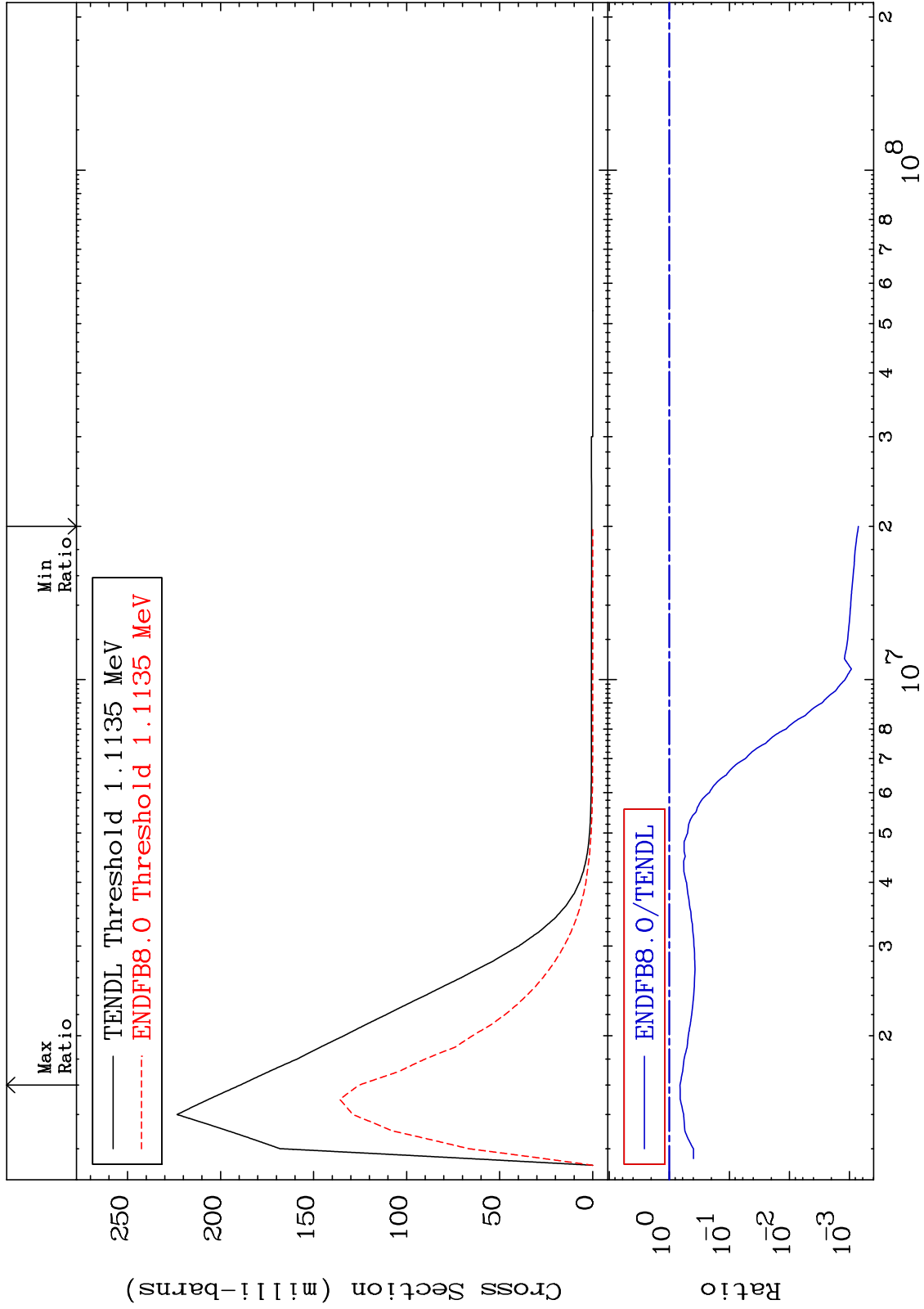
72-Hf-180
-64.66 To 9999. %



MAT 7243

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

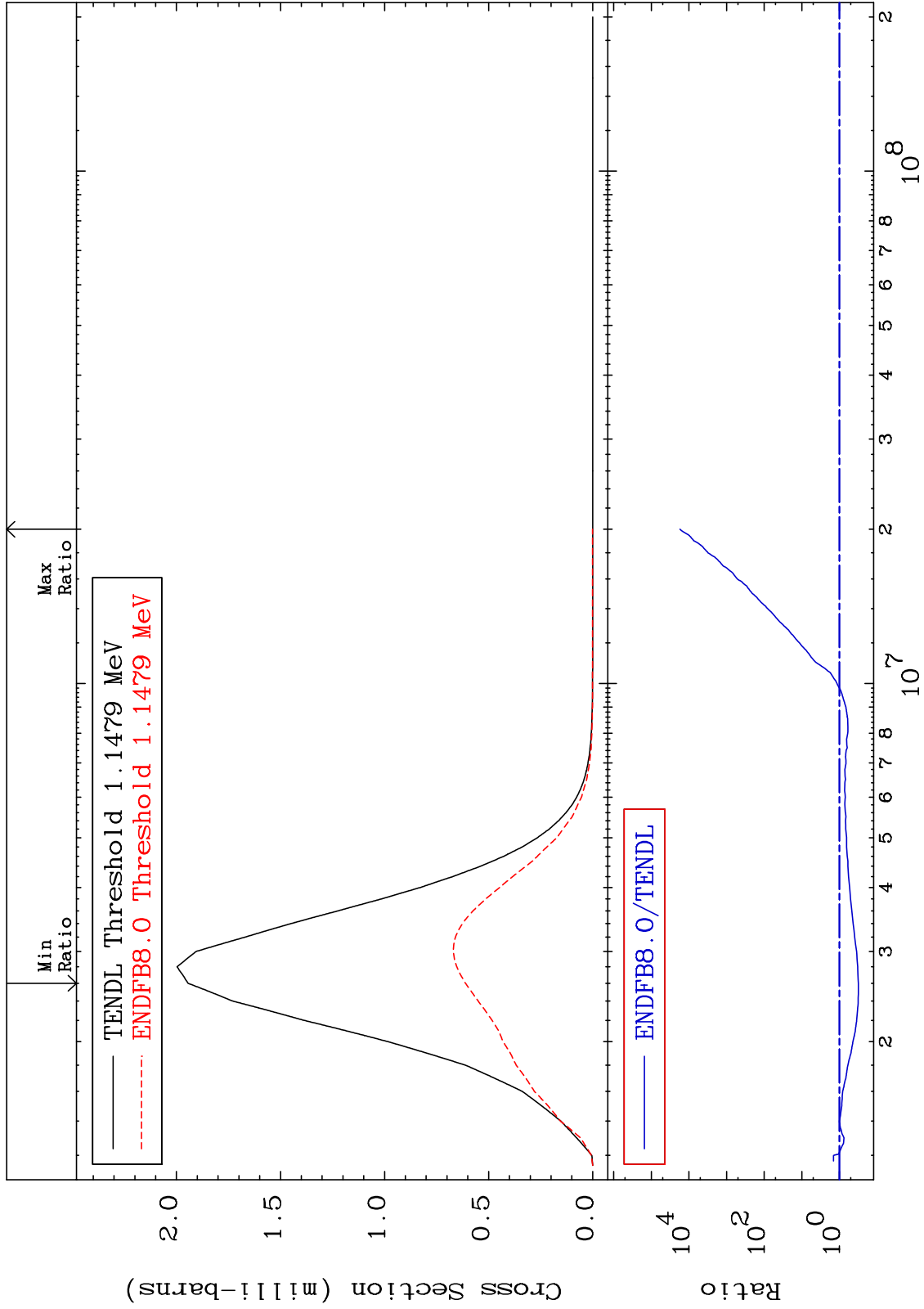
⁷²Hf-180
-99.93 To -33.74%



MAT 7243

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

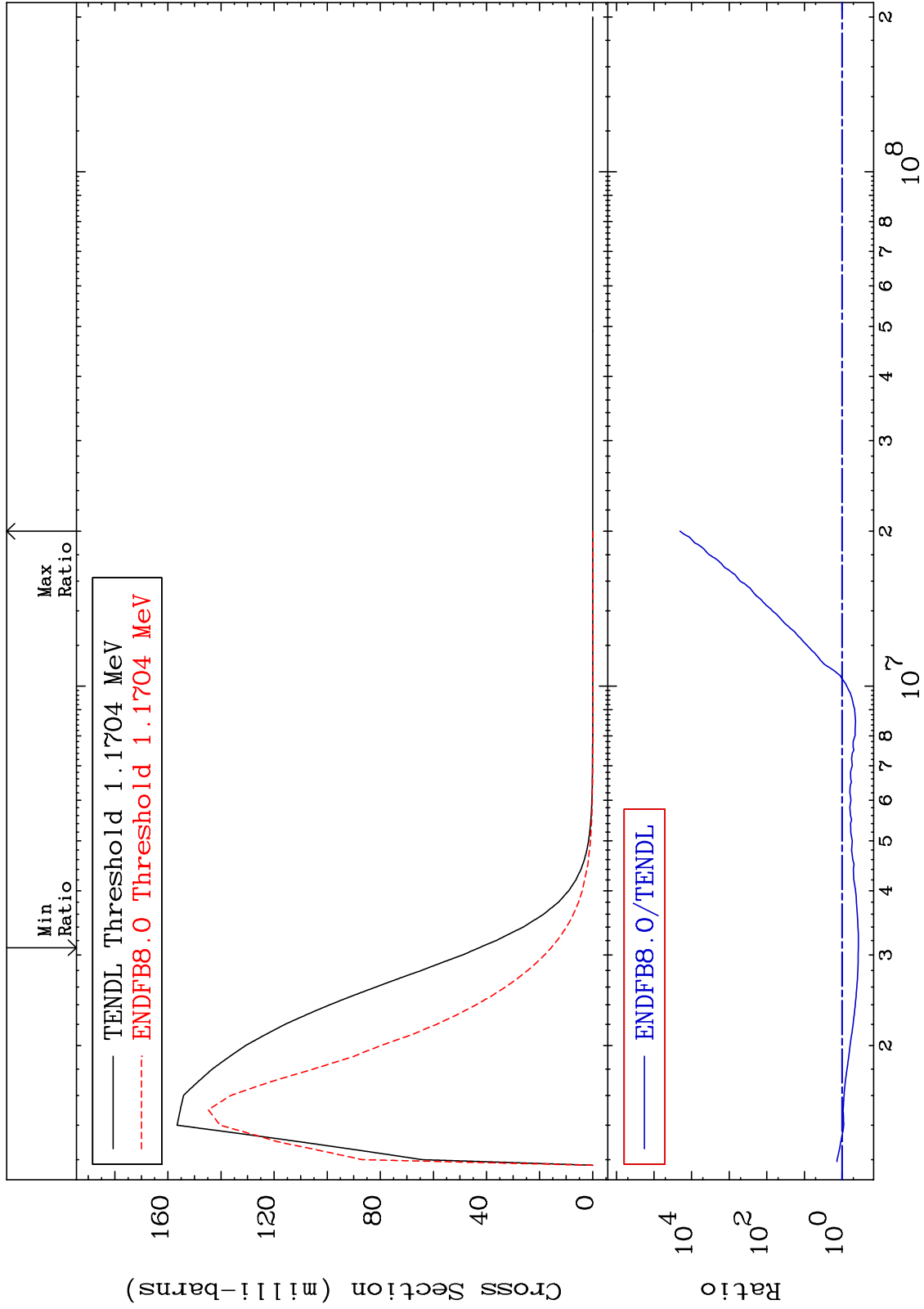
72-Hf-180
-68.58 To 9999. %



MAT 7243

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

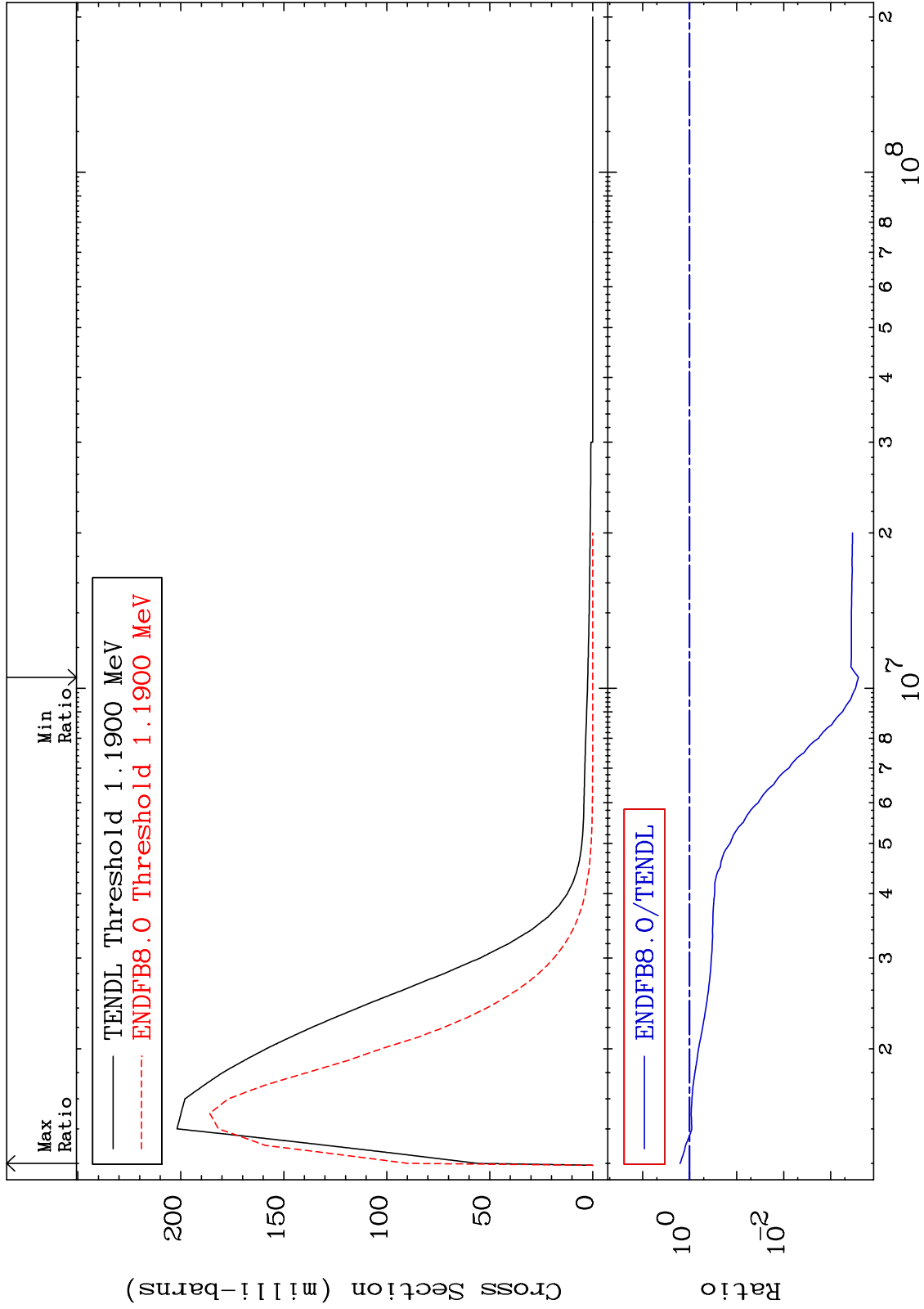
72-Hf-180
-63.40 To 9999. %



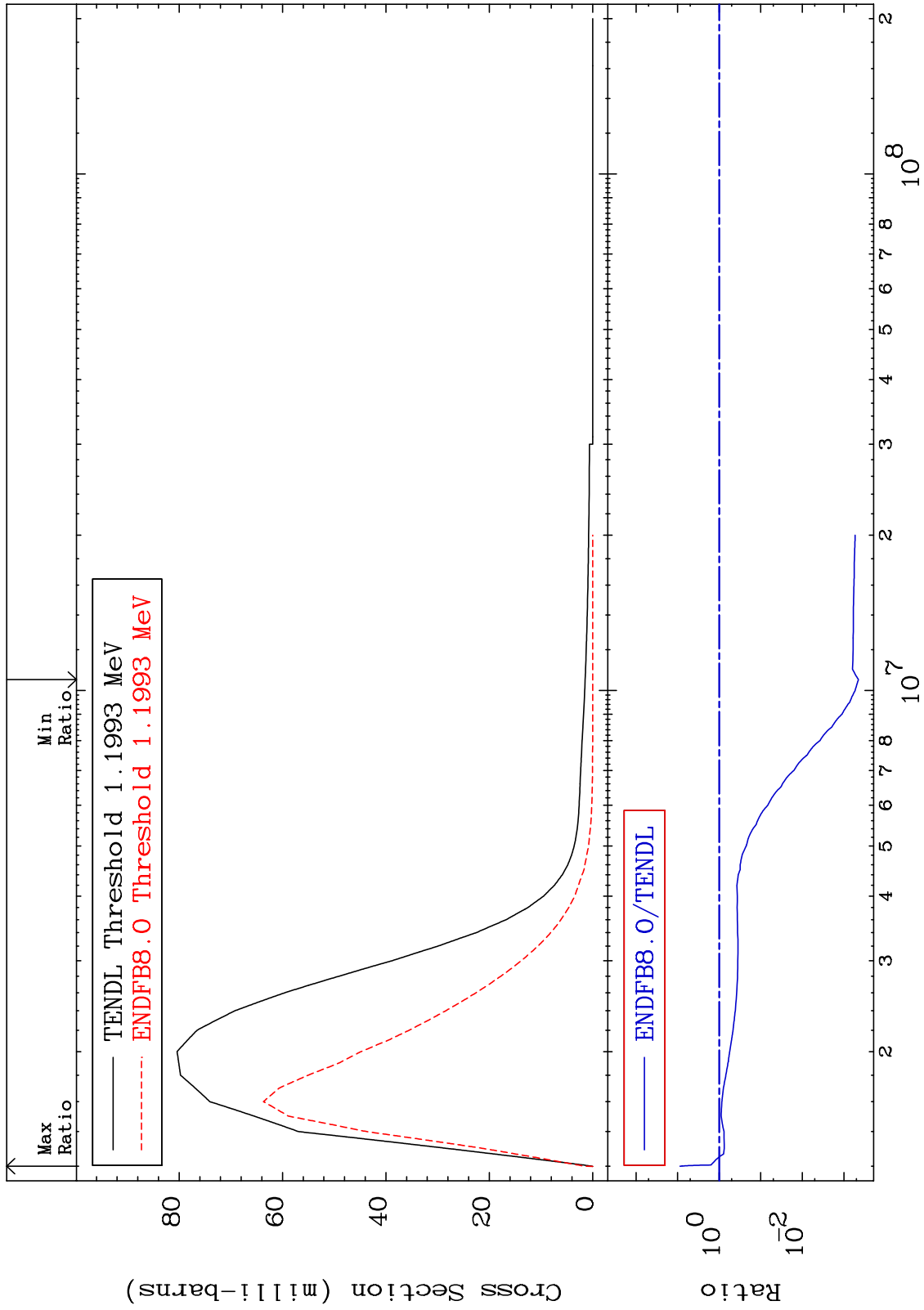
MAT 7243

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

72-Hf-180
-99.97 To 60.17 %



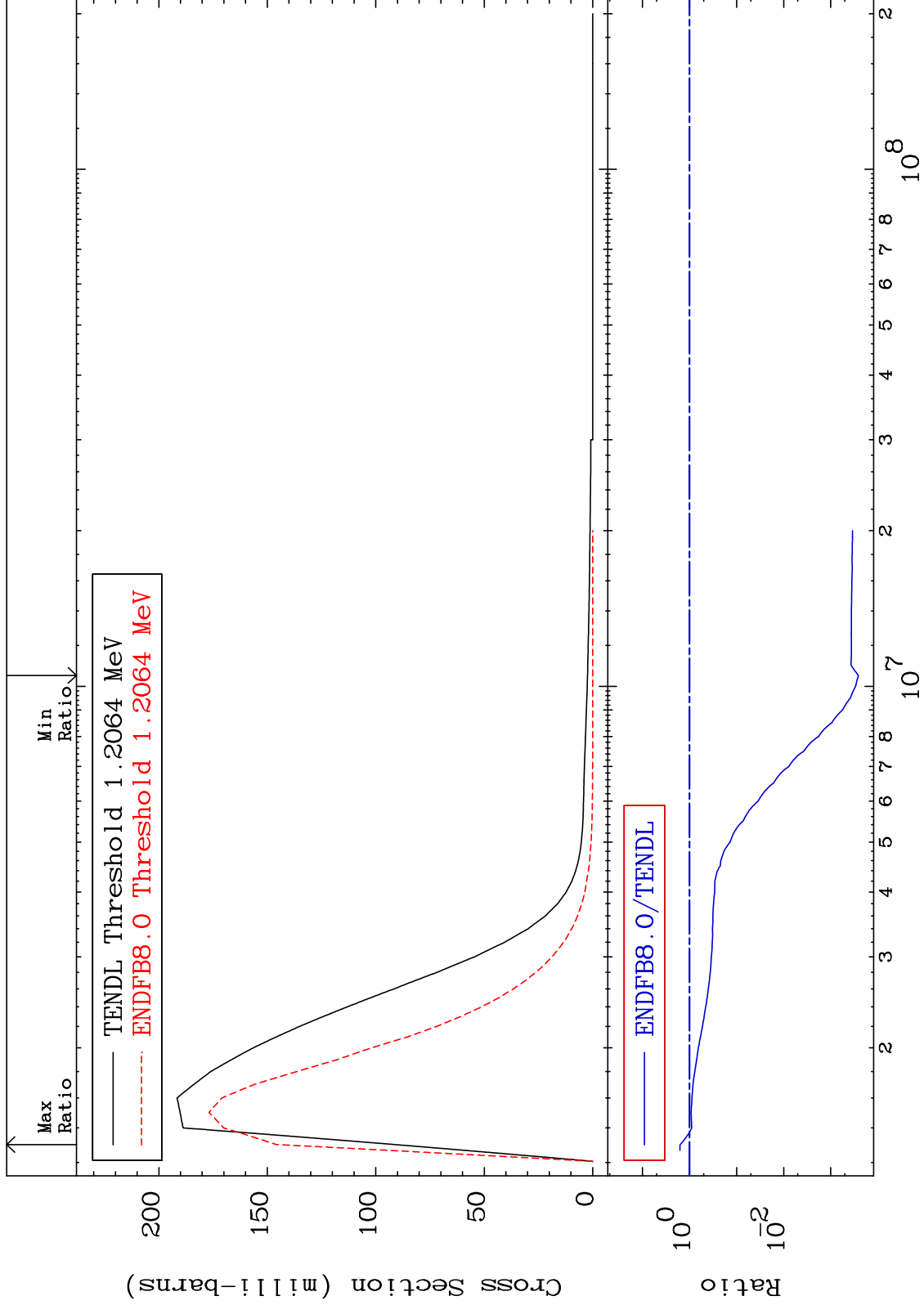
MAT 7243 MT= 60 (n,n') Level Cross Section 72-Hf-180 -99.96 To 774.2 %



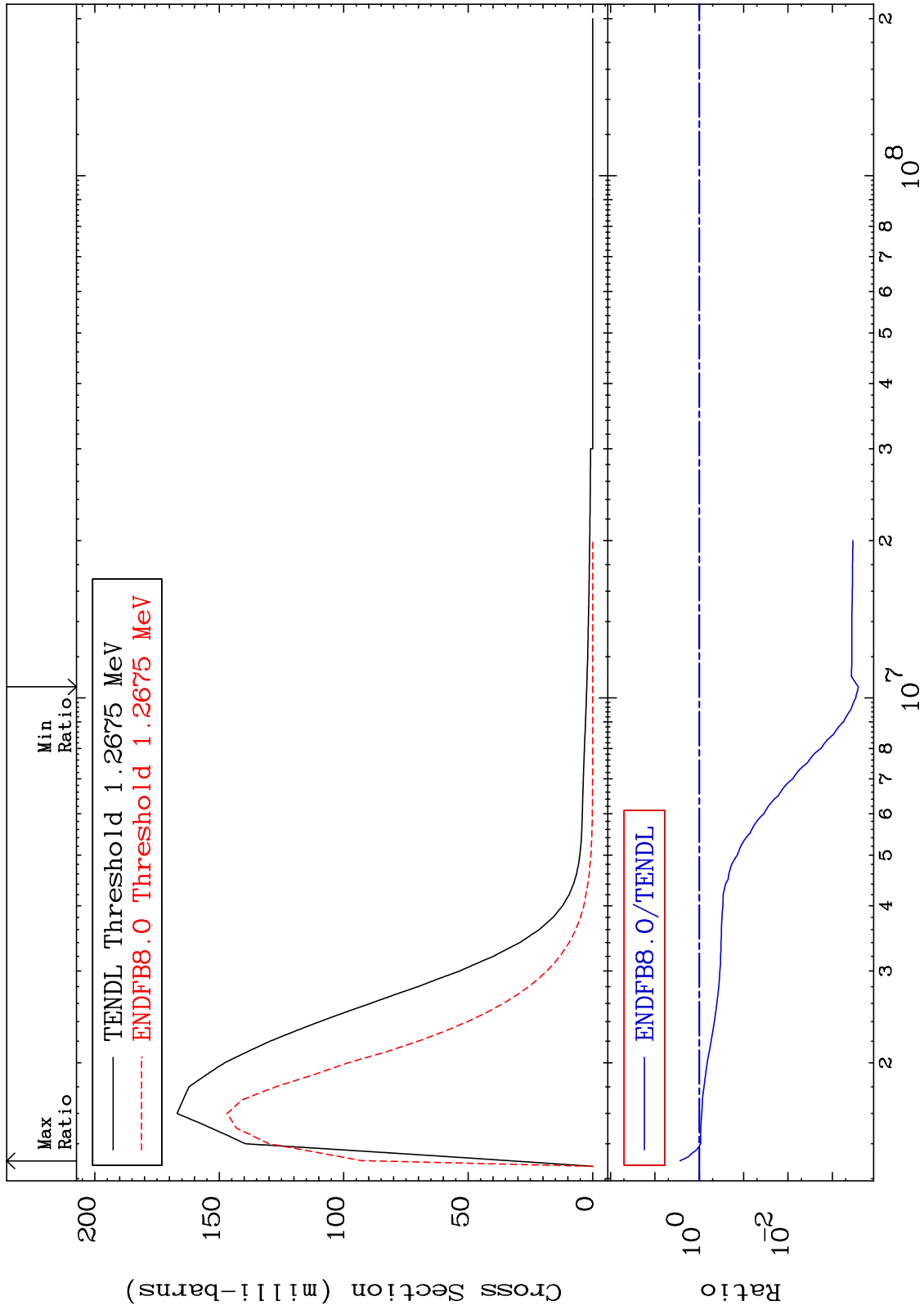
MAT 7243

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

72-Hf-180
-99.97 To 59.68 %



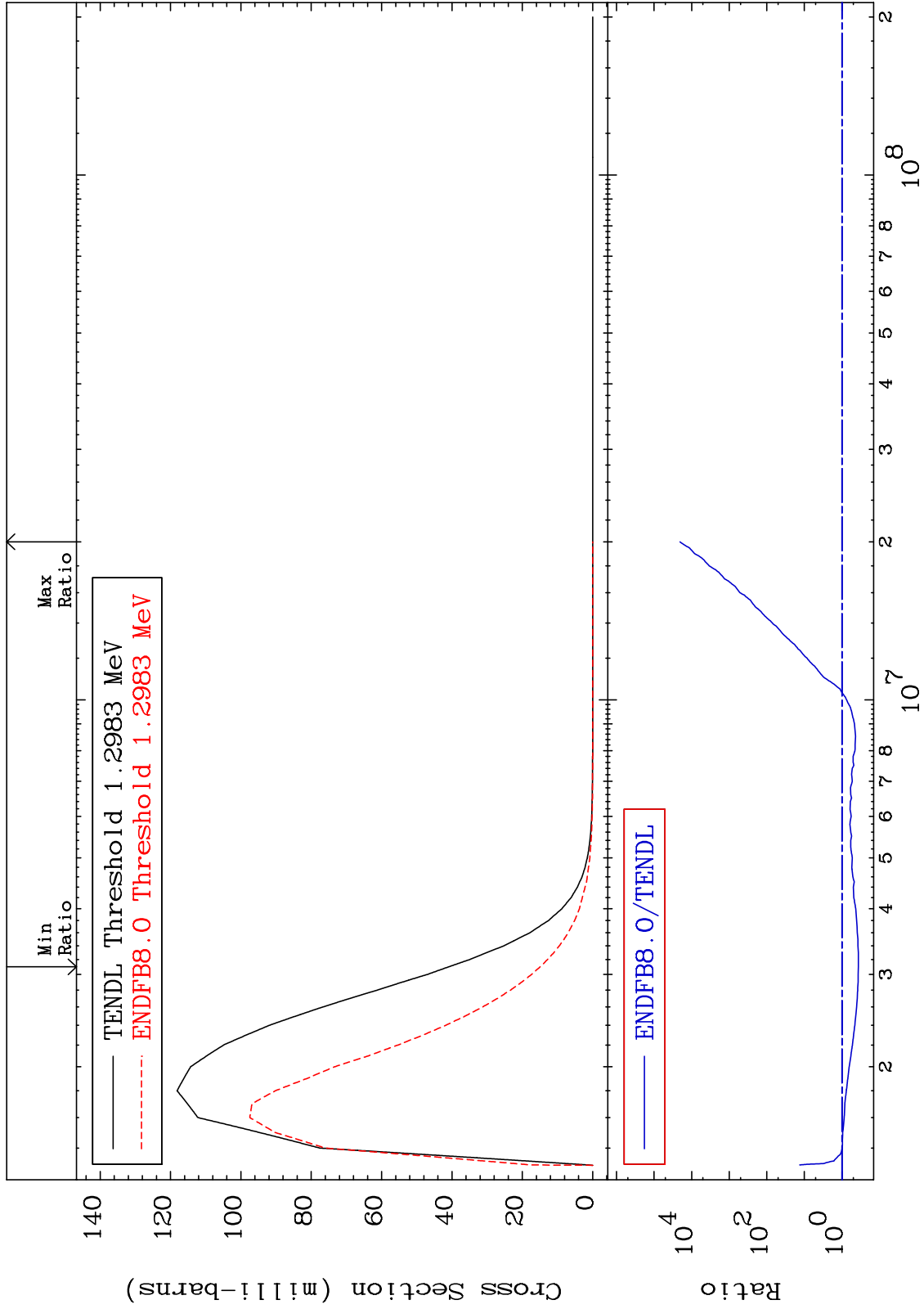
MAT 7243 MT= 62 (n,n') Level 72-Hf-180
 Cross Section -99.97 To 172.2 %



MAT 7243

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

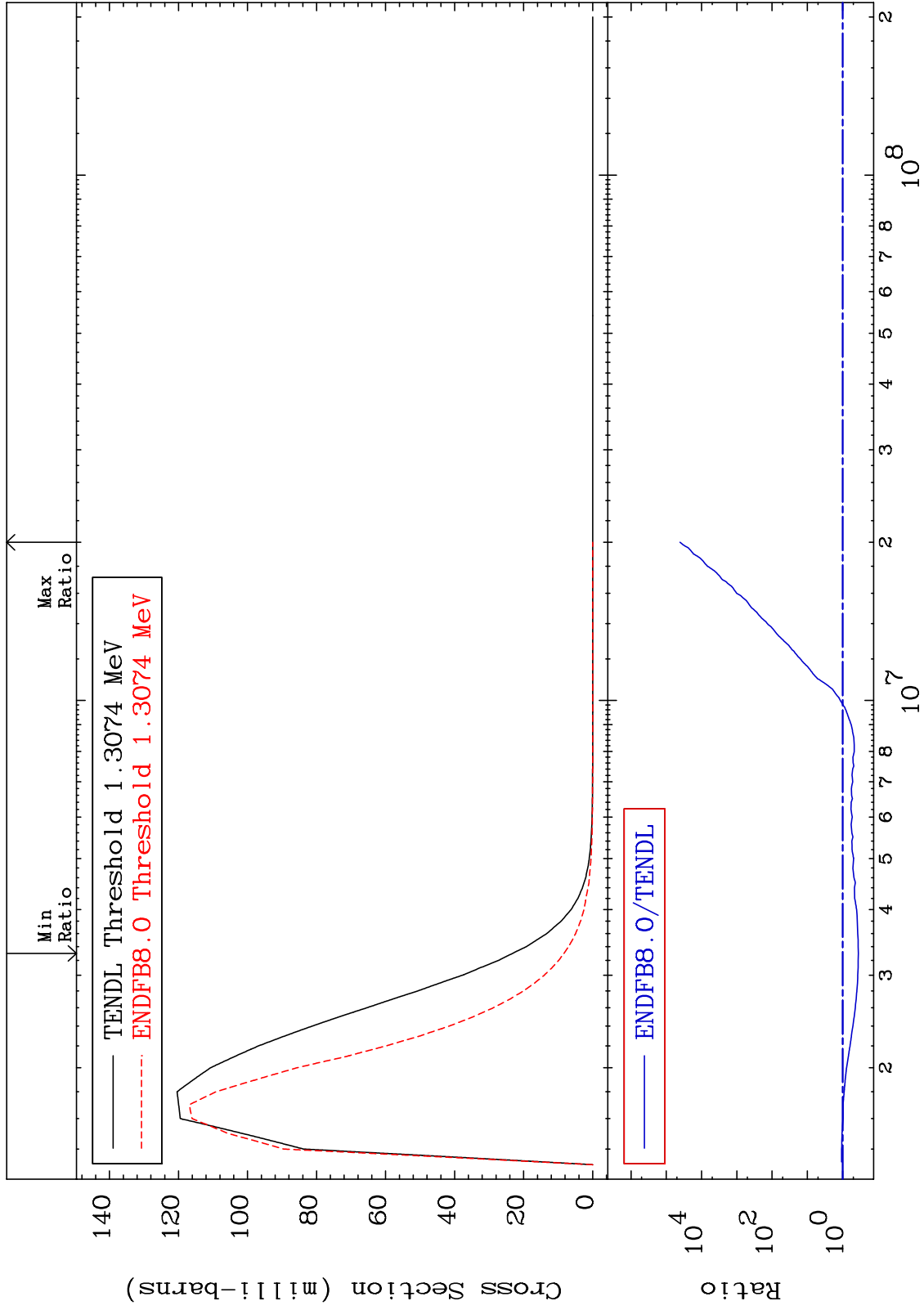
72-Hf-180
-63.52 To 9999. %



MAT 7243

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

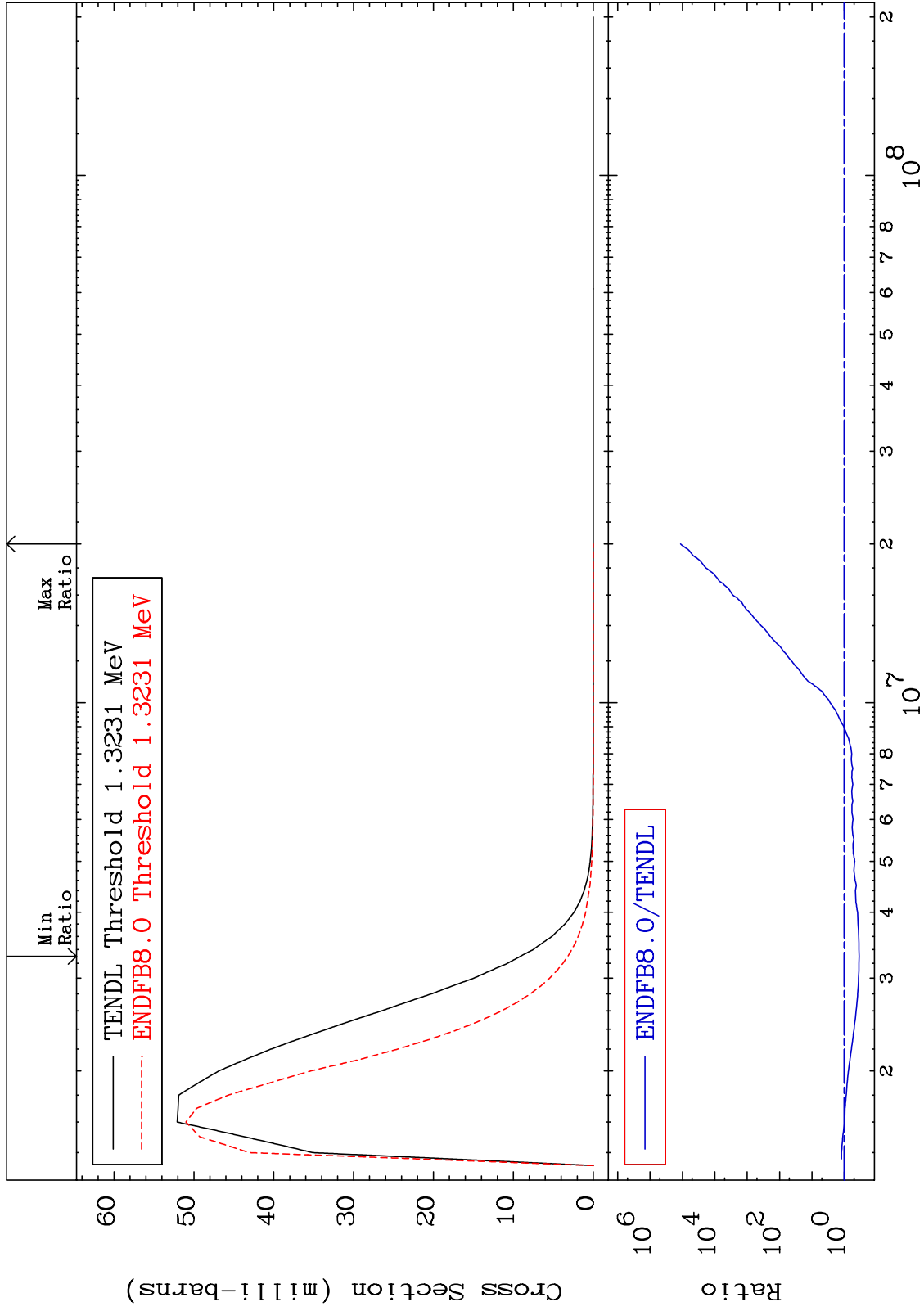
⁷²Hf-180
-64.32 To 9999. %



MAT 7243

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

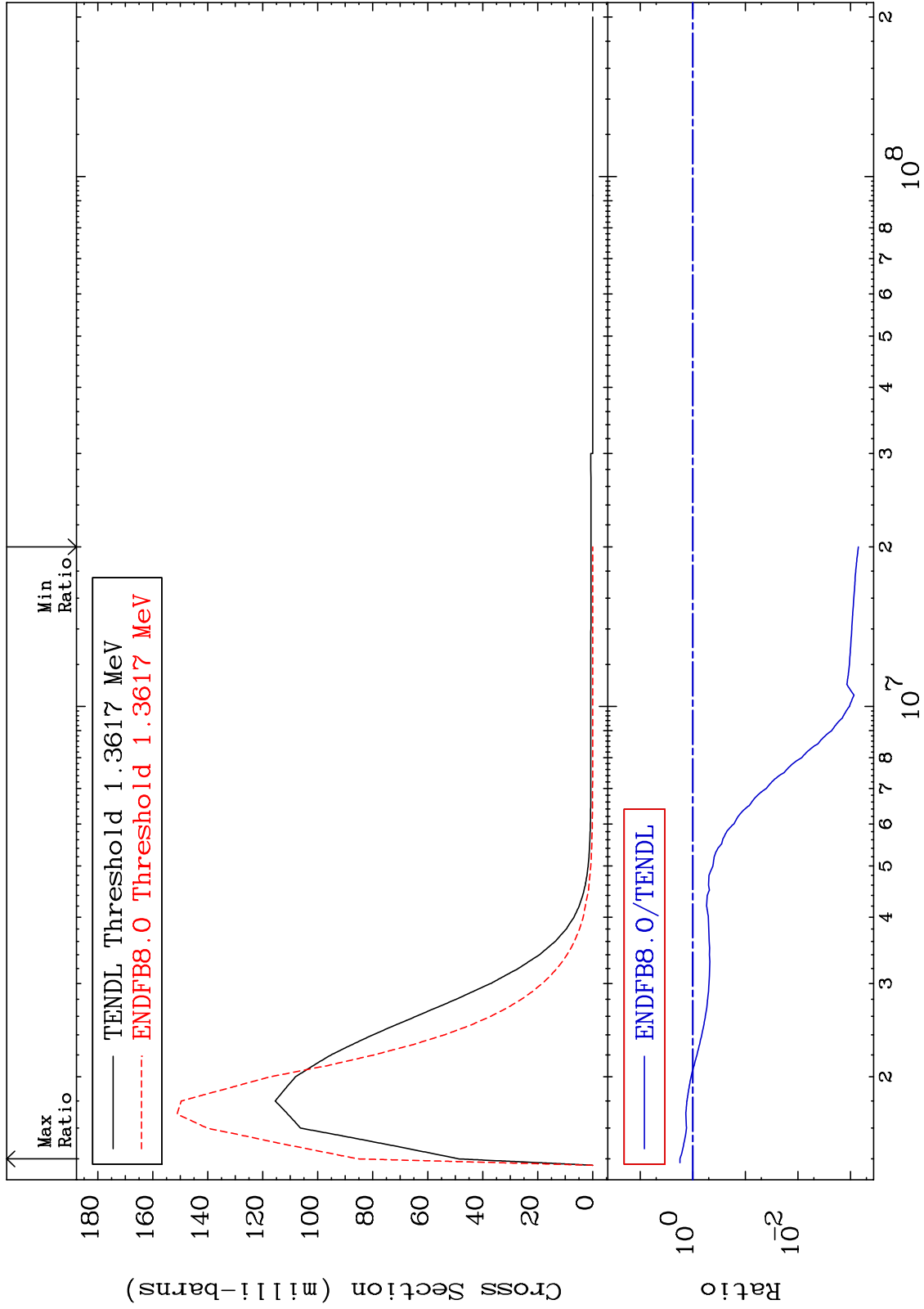
72-Hf-180
-65.10 To 9999. %



MAT 7243

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

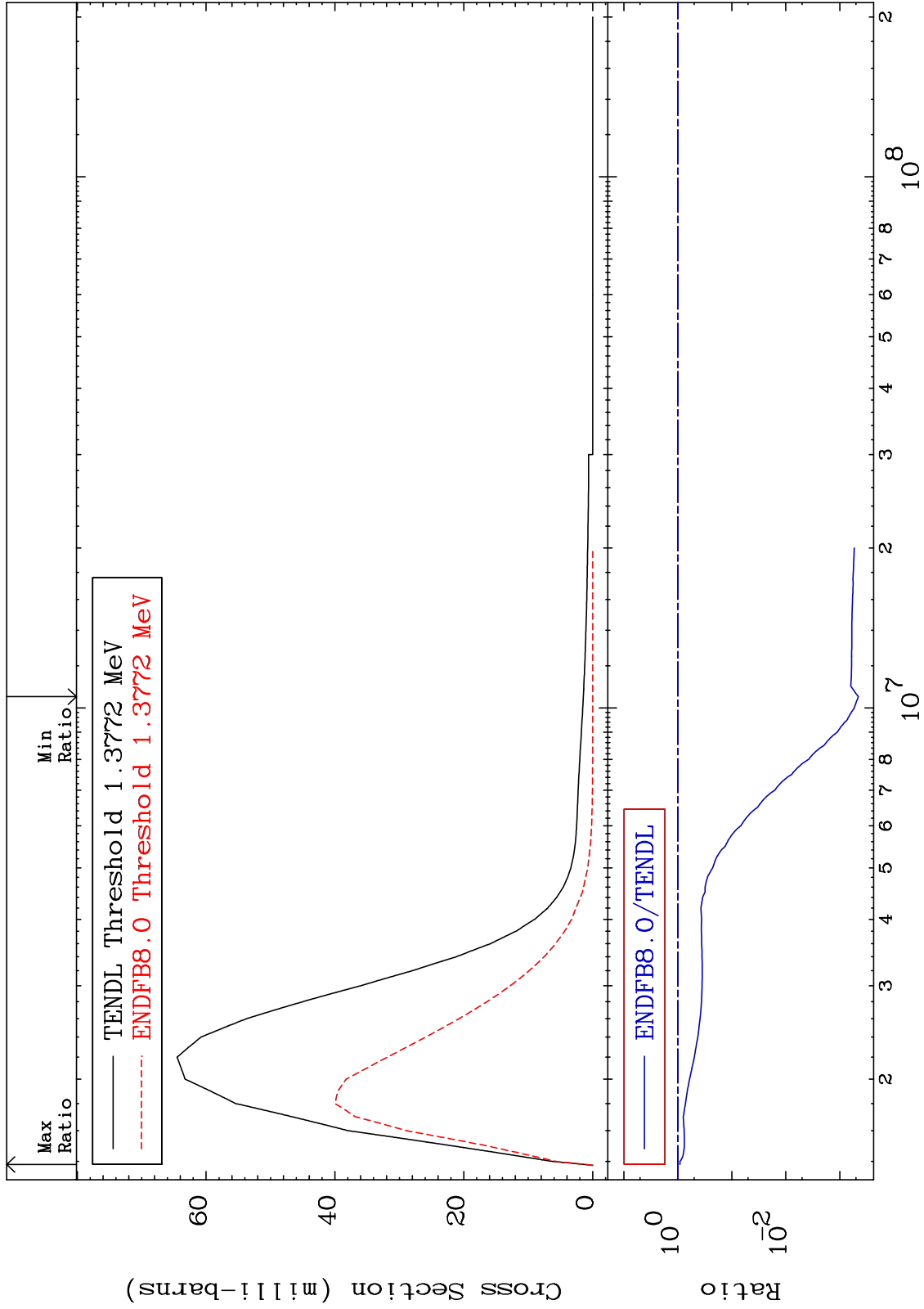
72-Hf-180
-99.93 To 75.27 %



MAT 7243

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

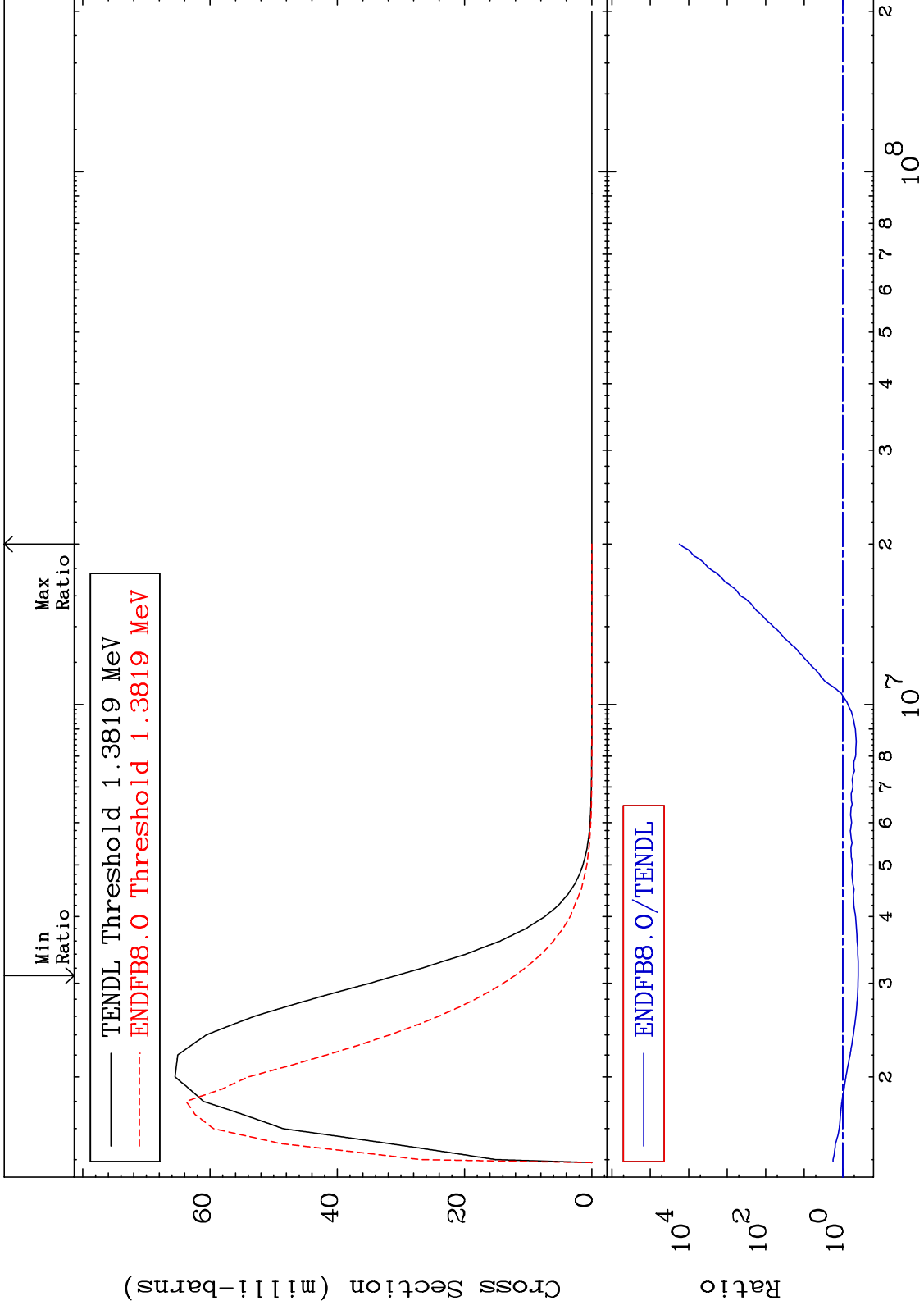
⁷²Hf-180
-99.95 To -9.106%



MAT 7243

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

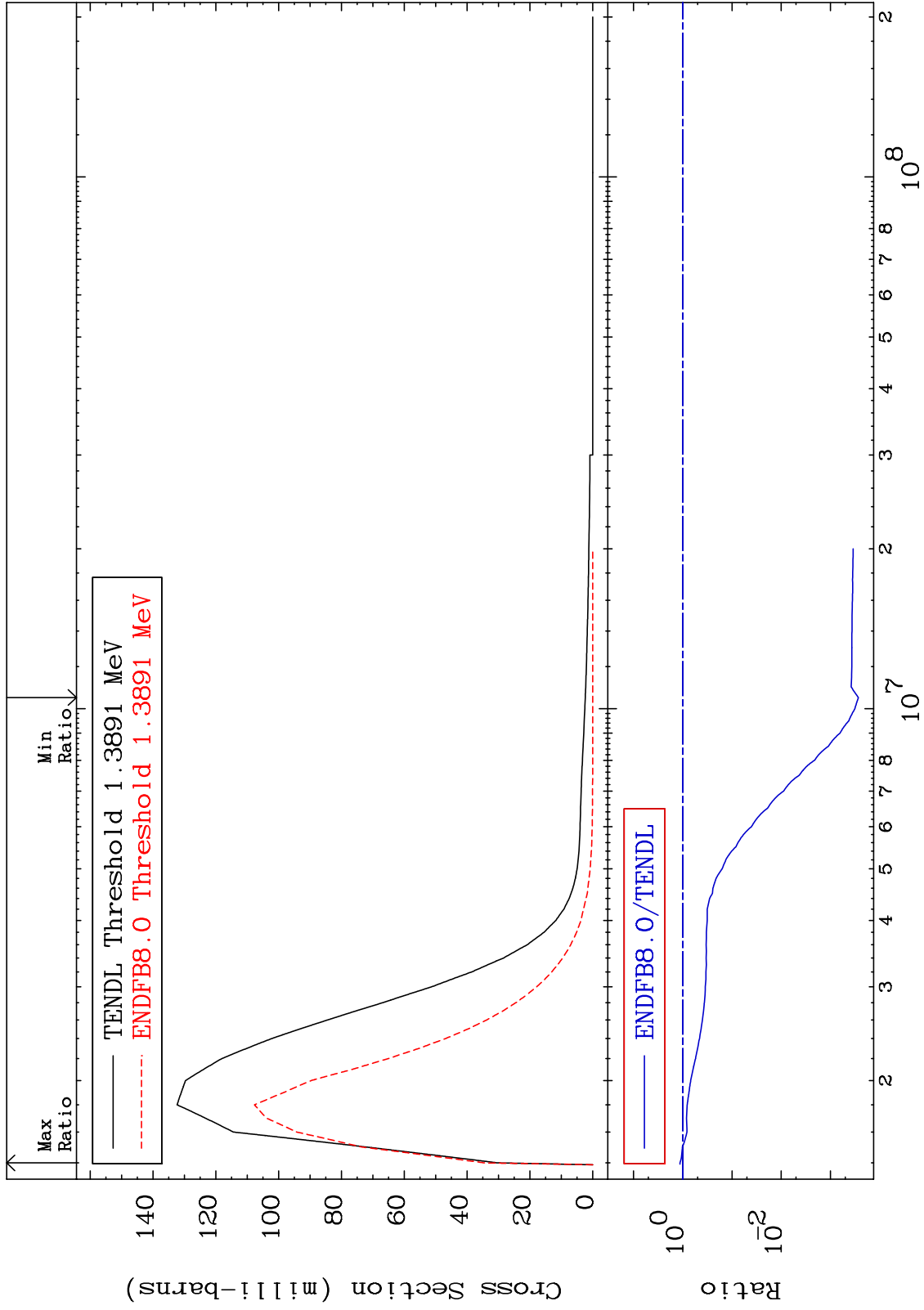
72-Hf-180
-60.71 To 9999. %



MAT 7243

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

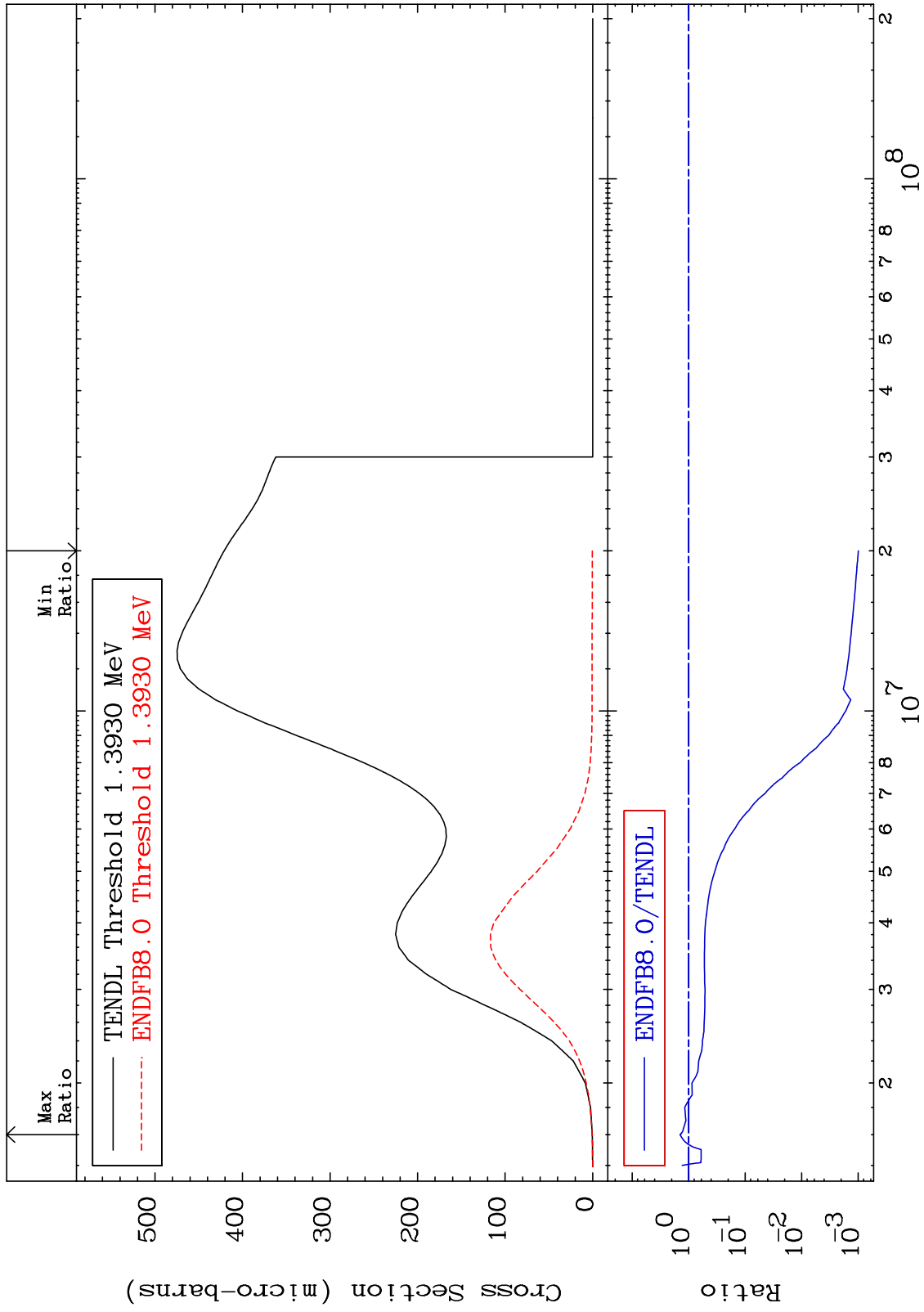
⁷²Hf-180
-99.97 To 13.88 %



MAT 7243

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

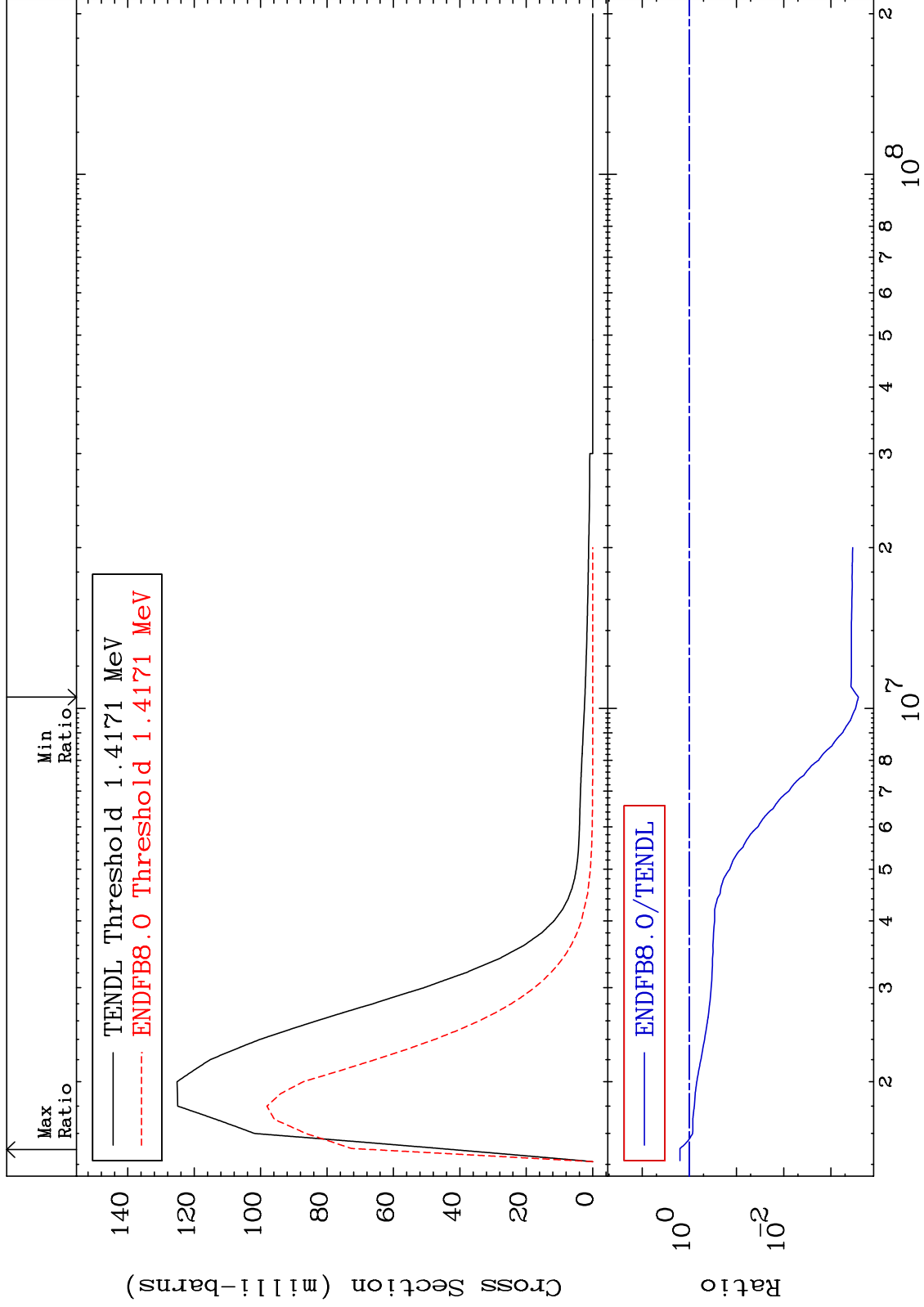
72-Hf-180
-99.90 To 42.37 %



MAT 7243

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

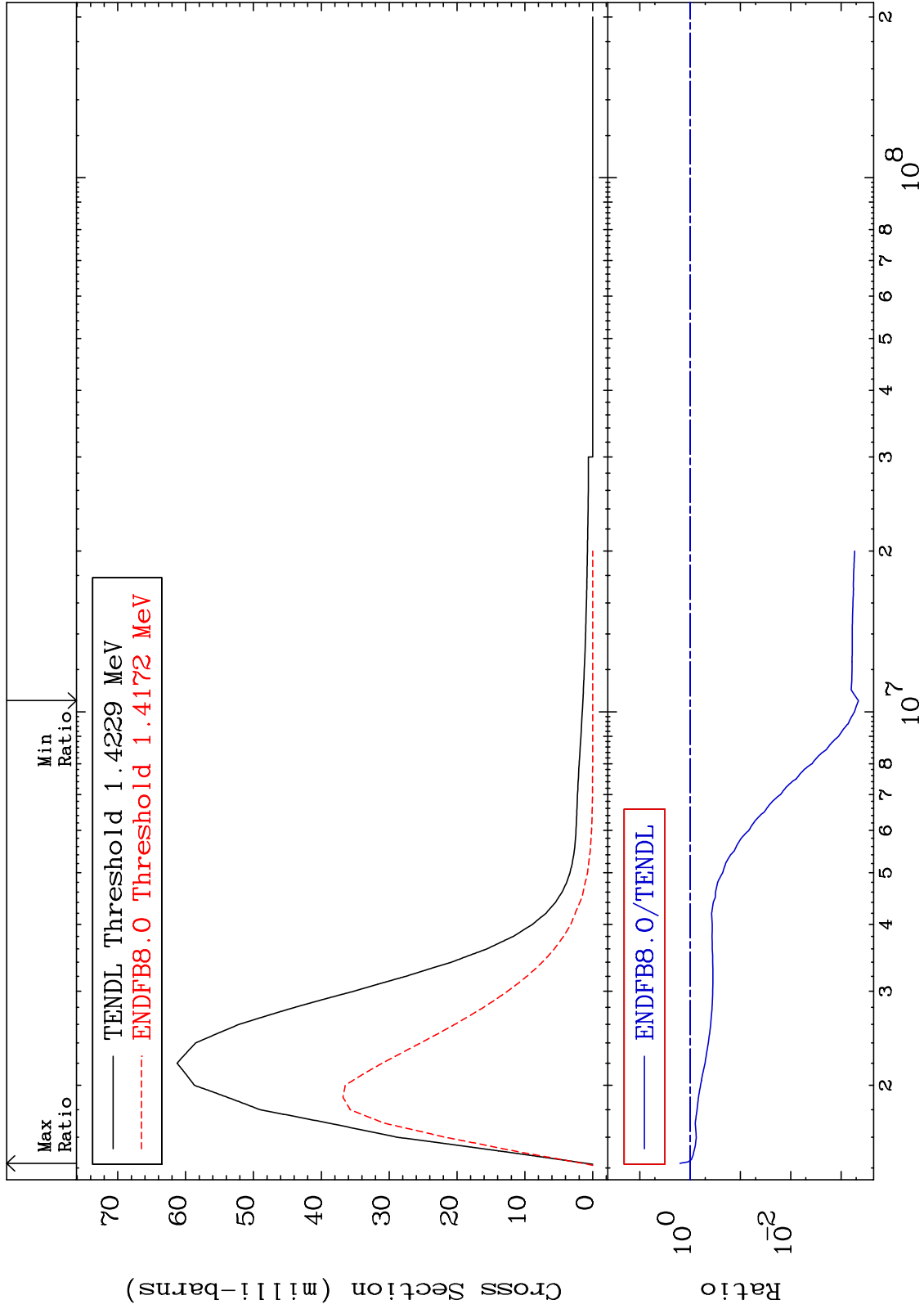
72-Hf-180
-99.97 To 57.49 %



MAT 7243

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

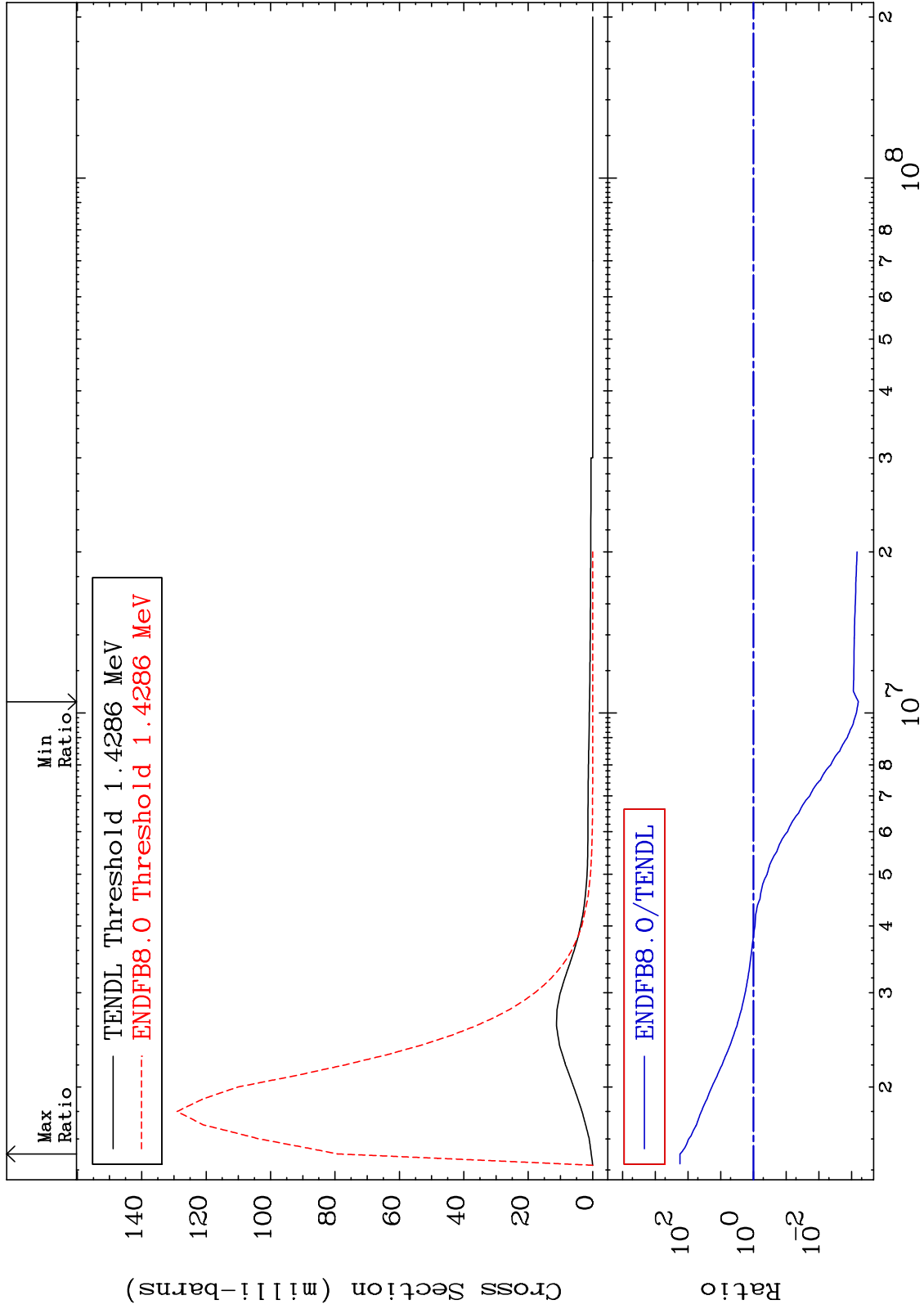
72-Hf-180
-99.95 To 58.88 %



MAT 7243

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

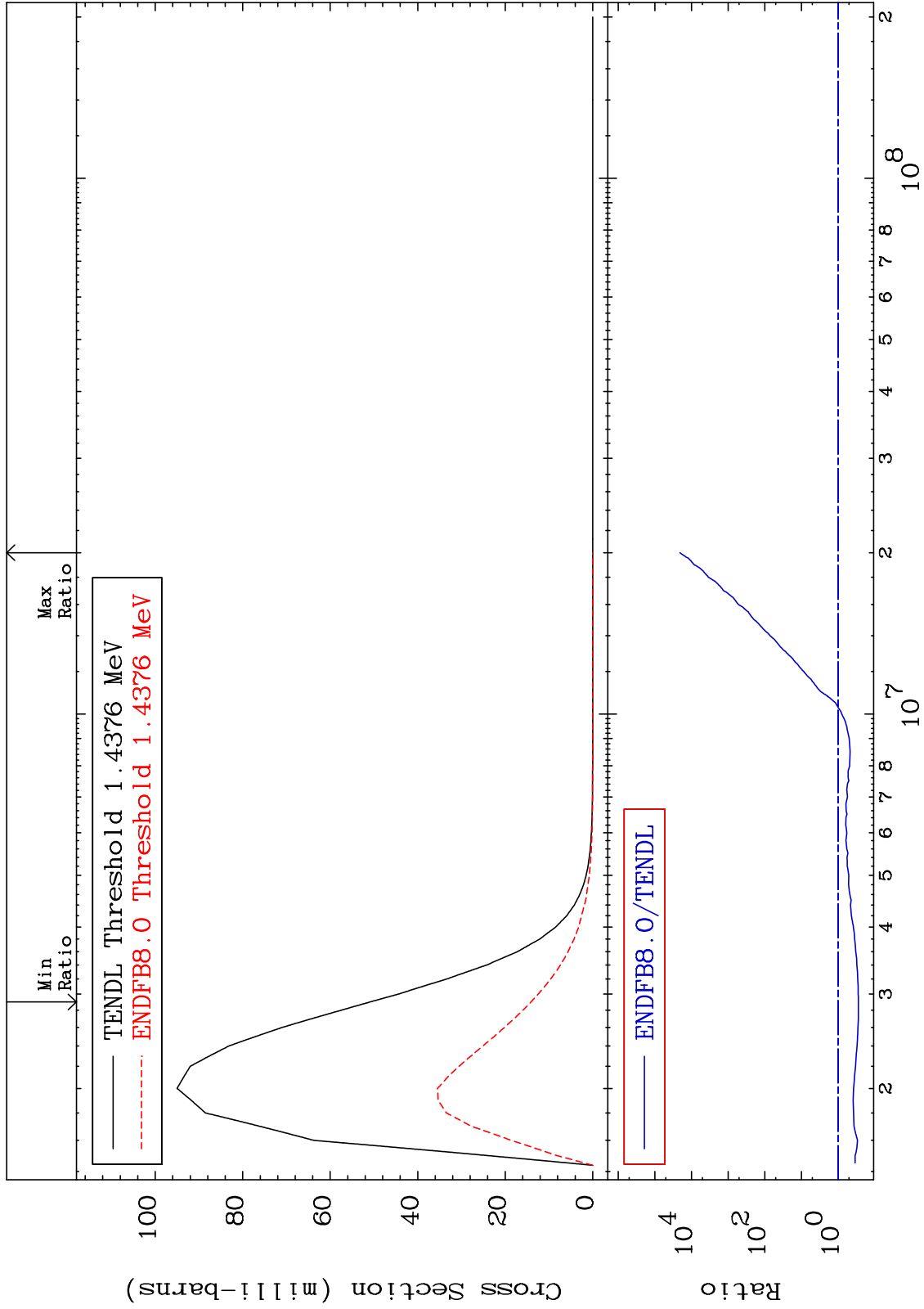
72-Hf-180
-99.94 To 9999. %



MAT 7243

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

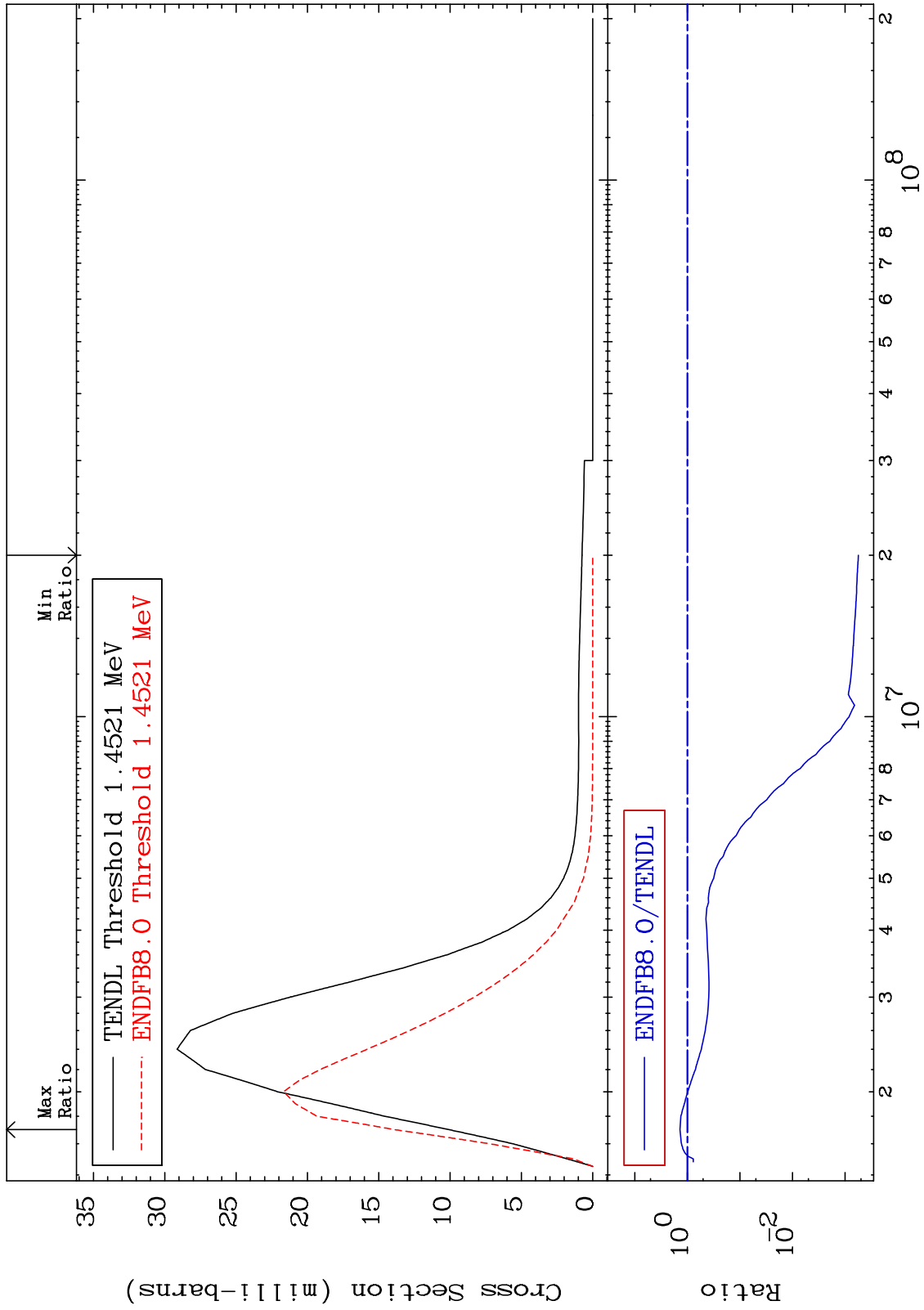
72-Hf-180
-72.32 To 9999. %



MAT 7243

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

72-Hf-180
-99.94 To 37.71 %



32

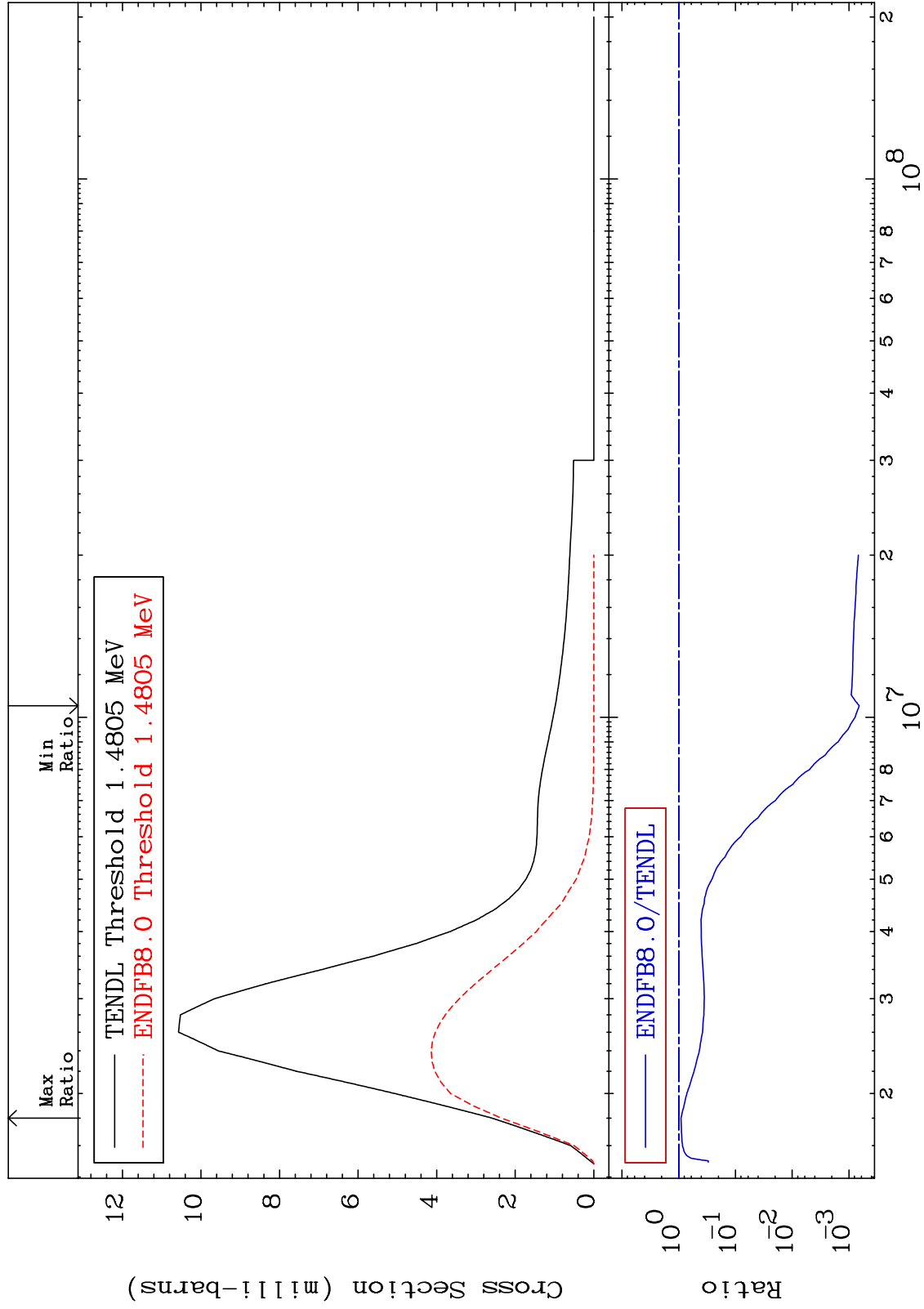
Incident Energy (eV)

72-Hf-180

MAT 7243

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

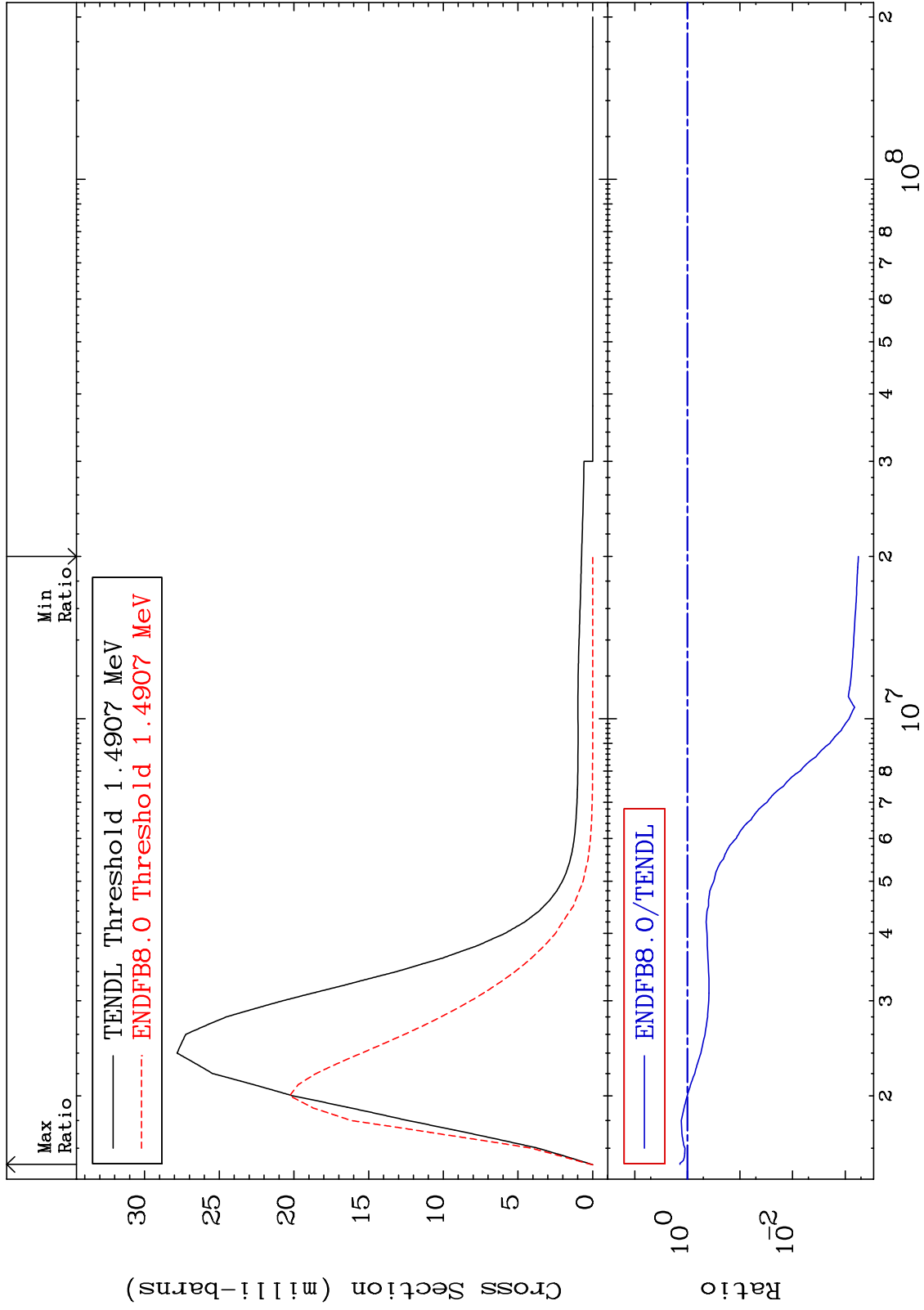
72-Hf-180
-99.93 To -9.057%



MAT 7243

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

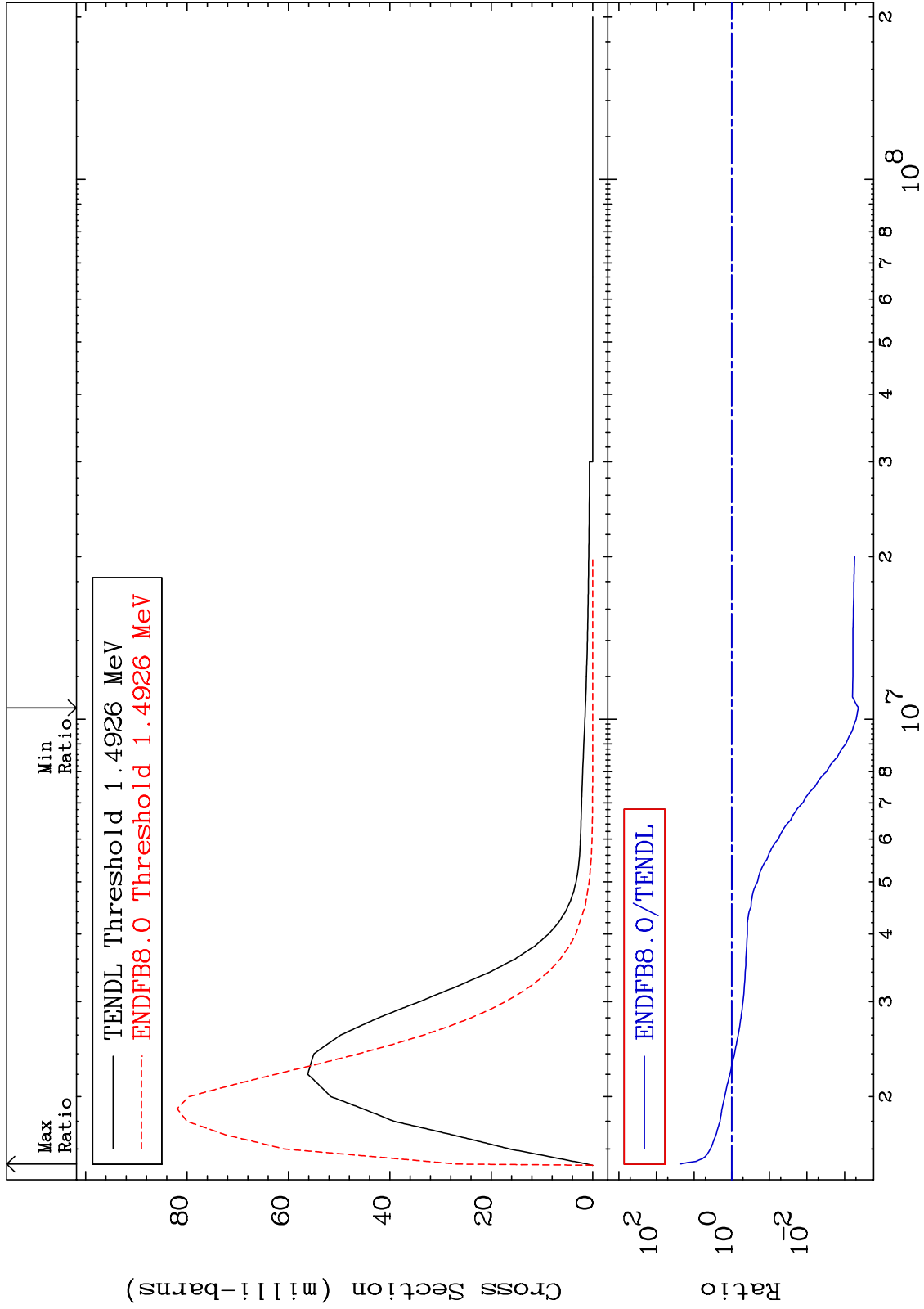
72-Hf-180
-99.94 To 38.26 %



MAT 7243

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

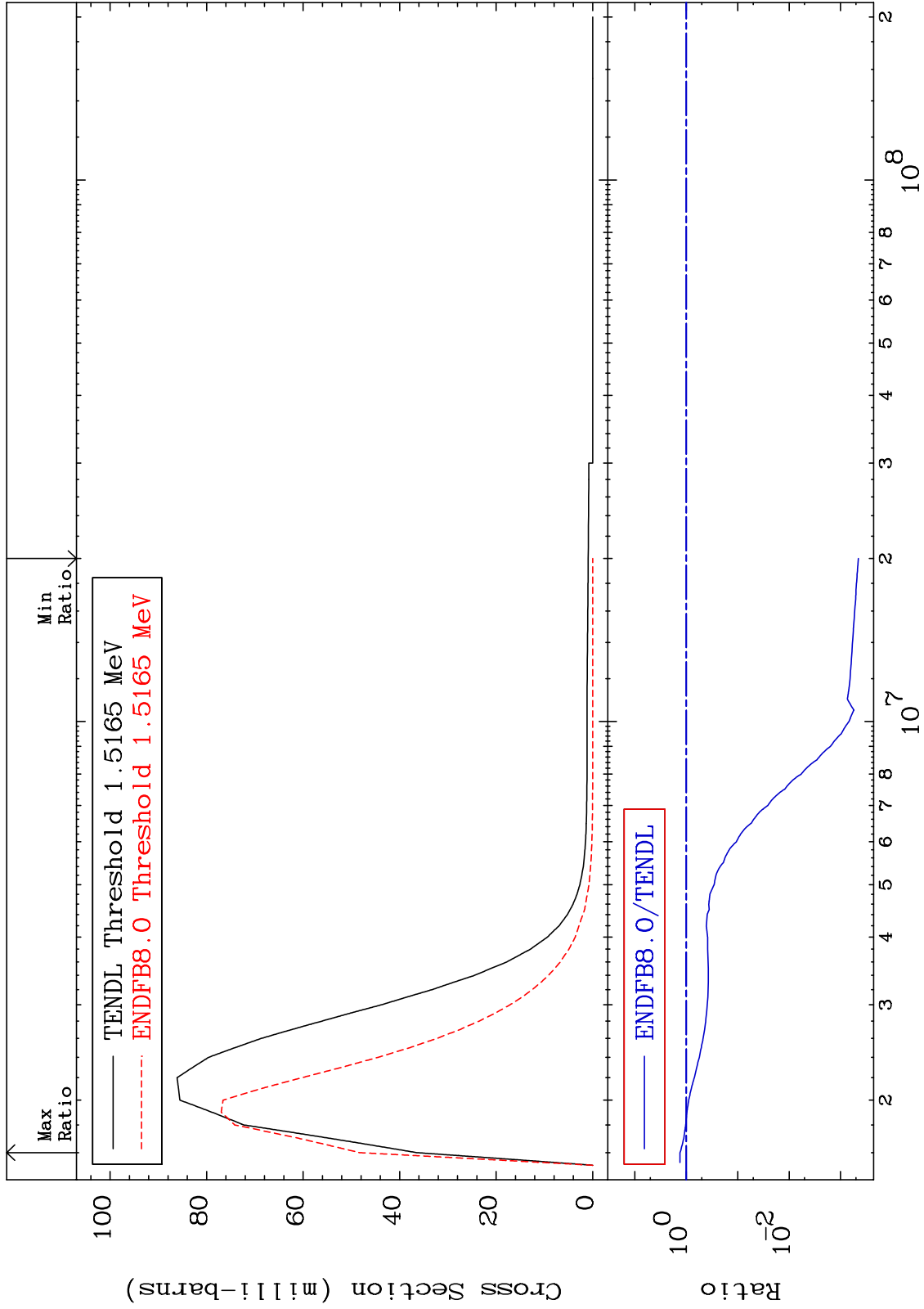
72-Hf-180
-99.96 To 2265. %



MAT 7243

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

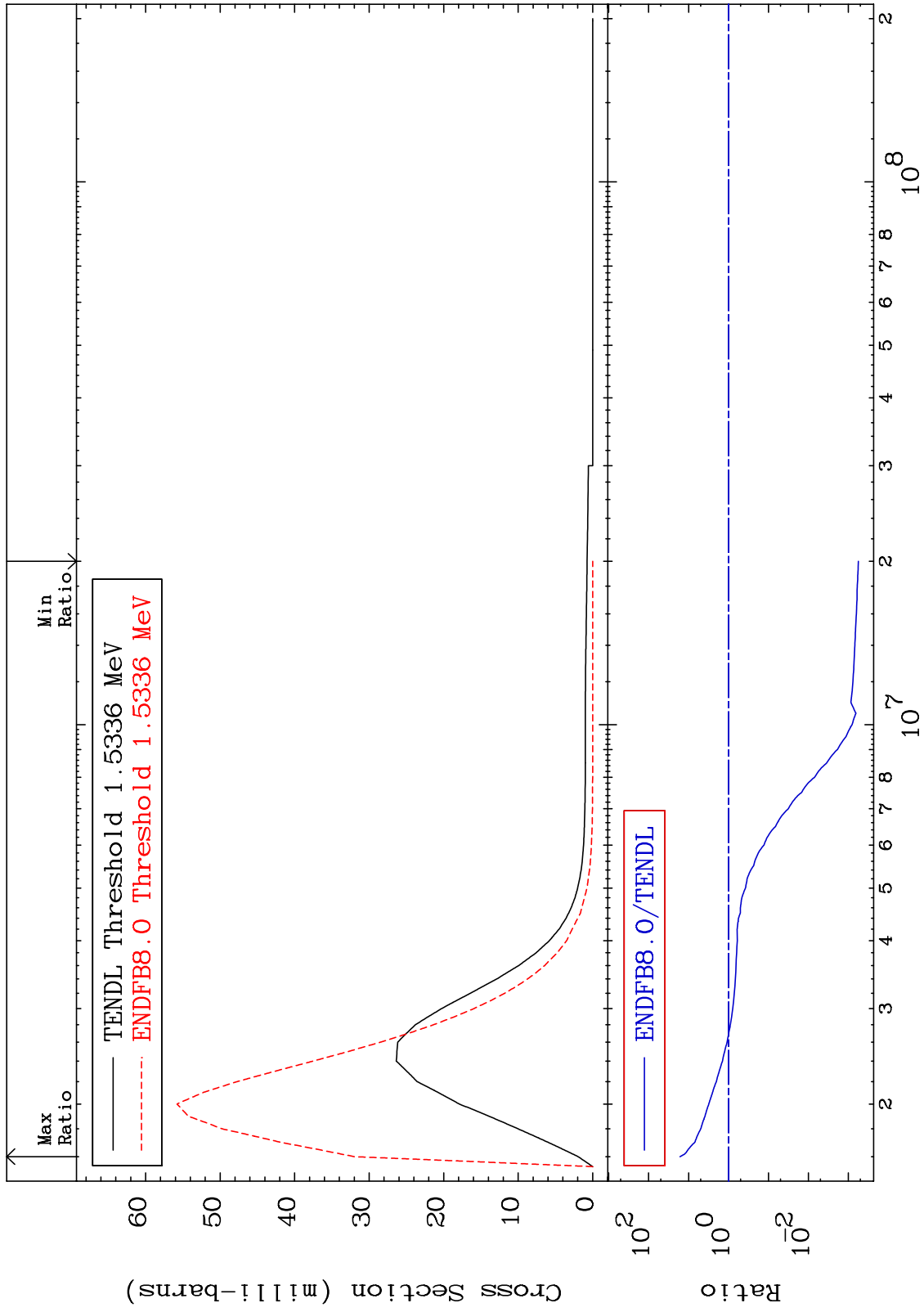
72-Hf-180
-99.96 To 32.41 %



MAT 7243

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

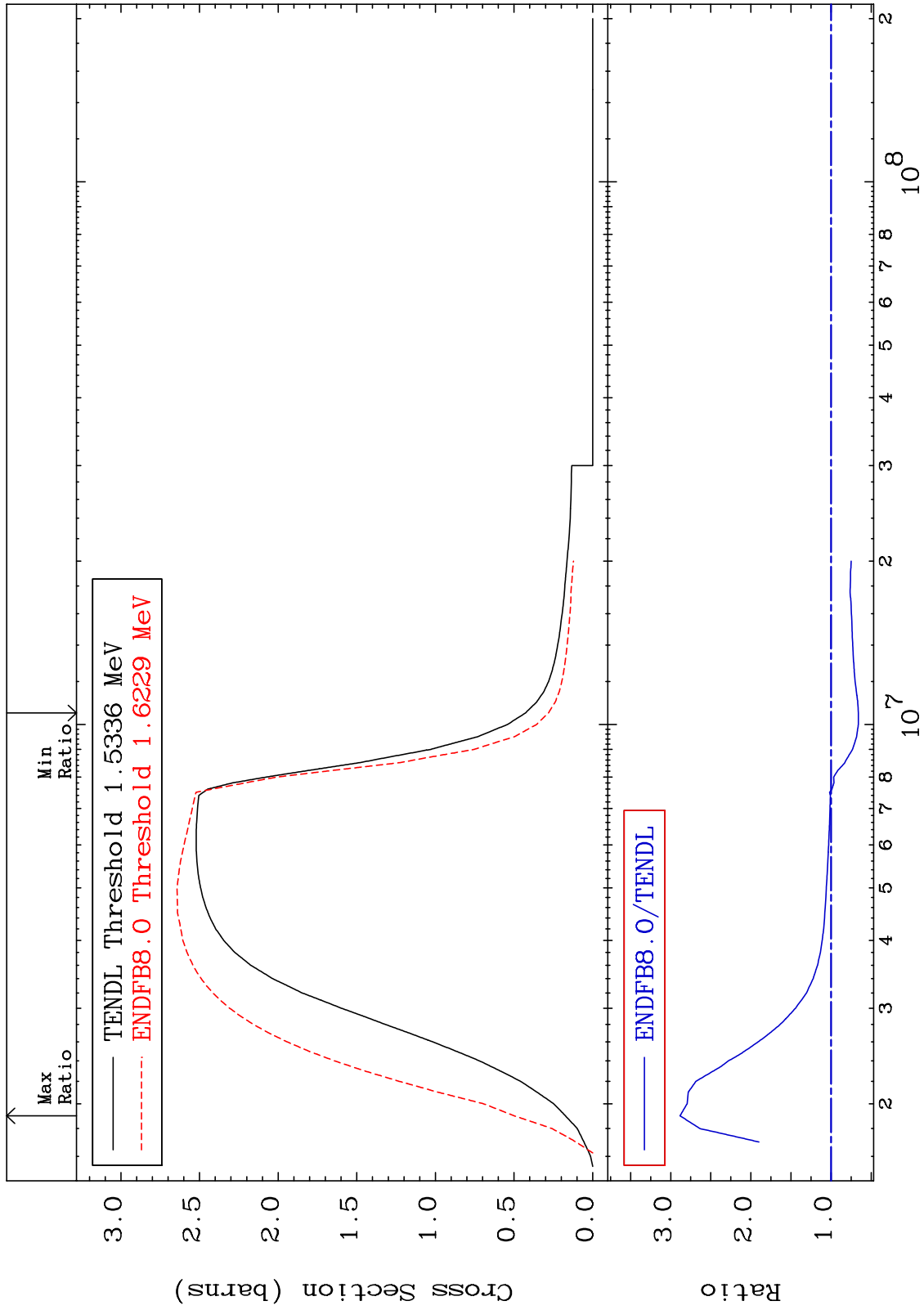
72-Hf-180
-99.94 To 1537. %



MAT 7243

(n, n') Continuum
Cross Section

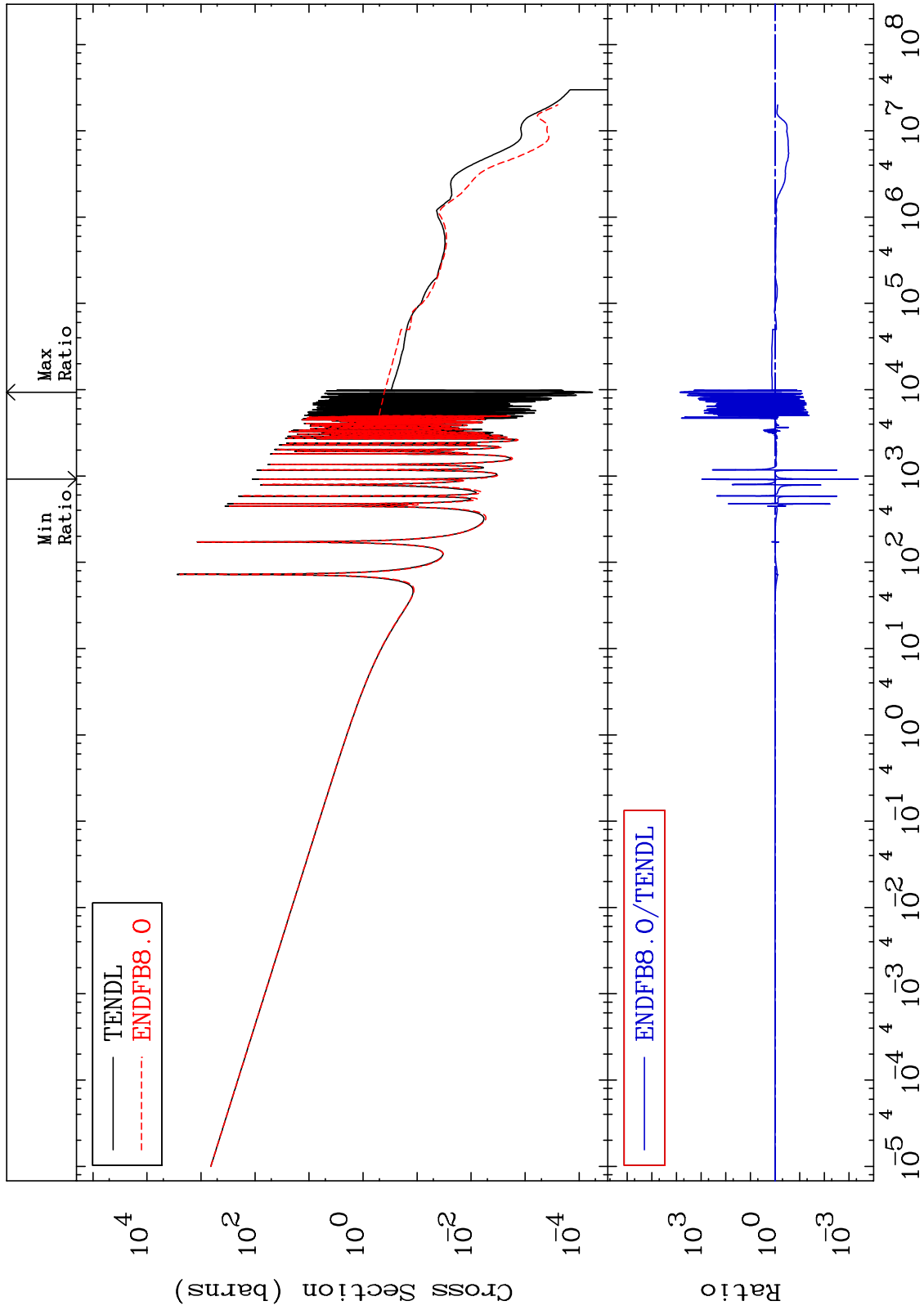
⁷²Hf-180
-34.10 To 188.4 %



MAT 7243

(n, γ)
Cross Section

72-Hf-180
-99.96 To 9999. %



39

Incident Energy (eV)

72-Hf-180

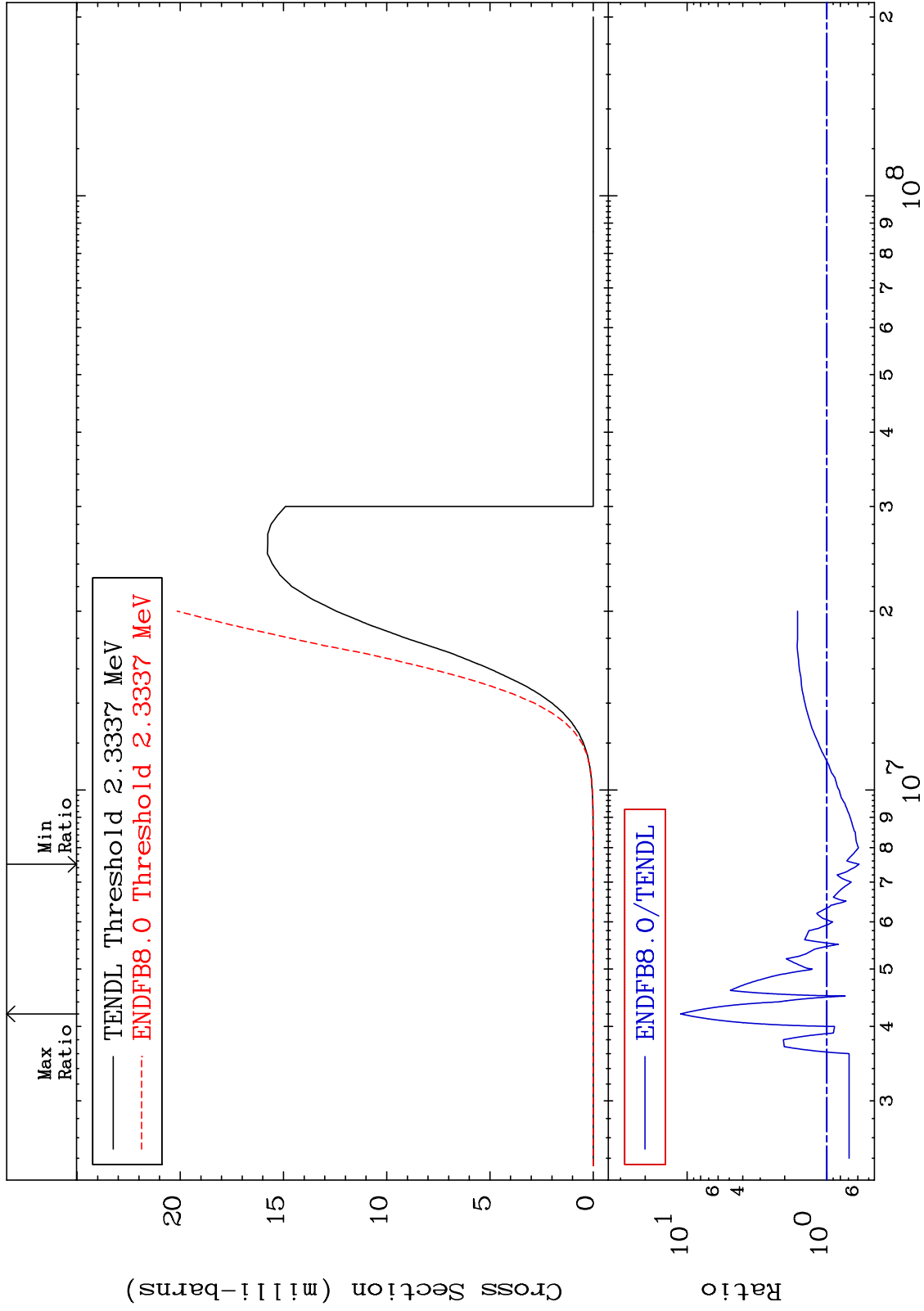
MAT 7243

(n, p)

72-Hf-180

Cross Section

-41.37 To 1014. %



40

Incident Energy (eV)

72-Hf-180

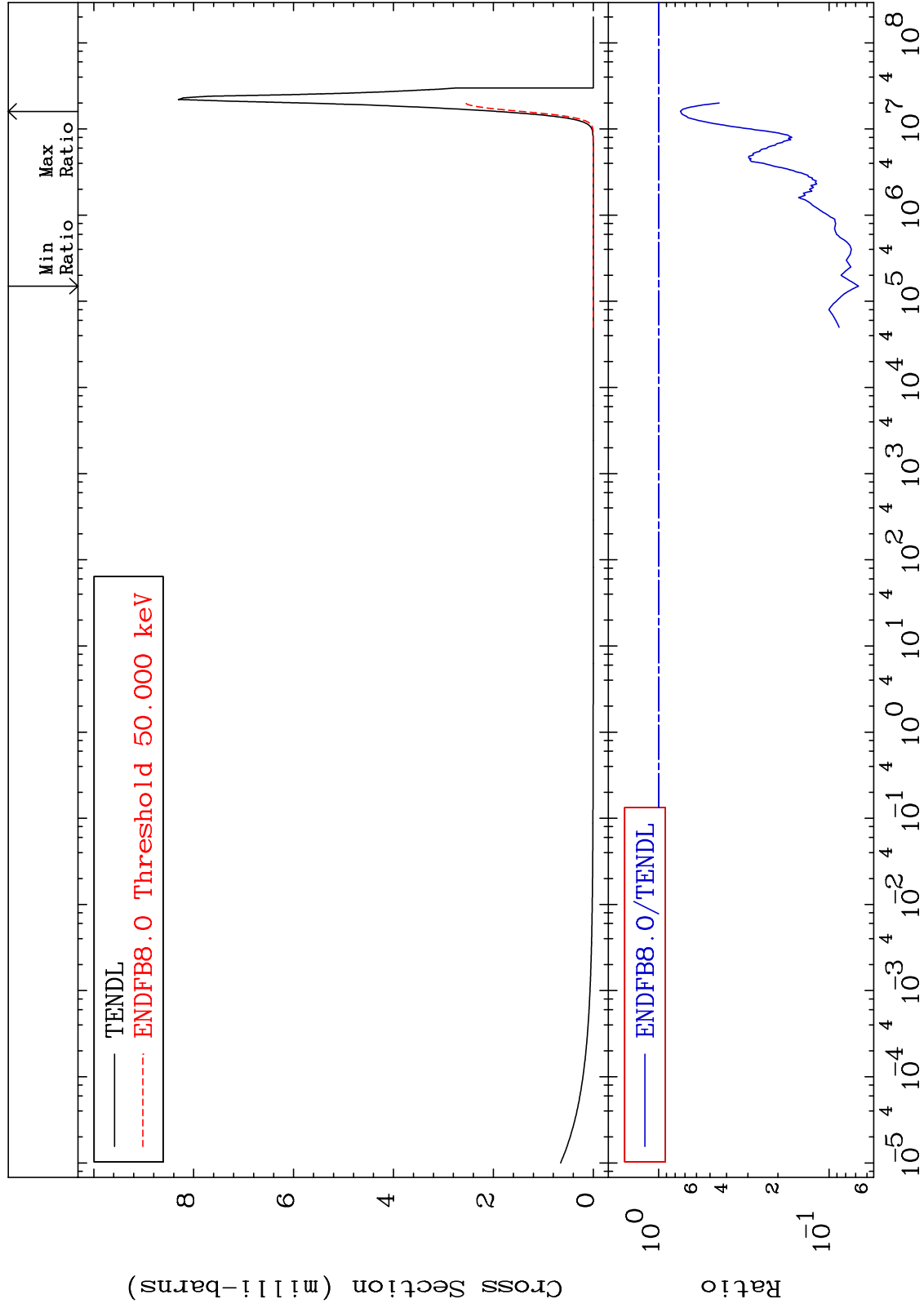
MAT 7243

(n, α)

72-Hf-180

Cross Section

-93.28 To -25.51%



41

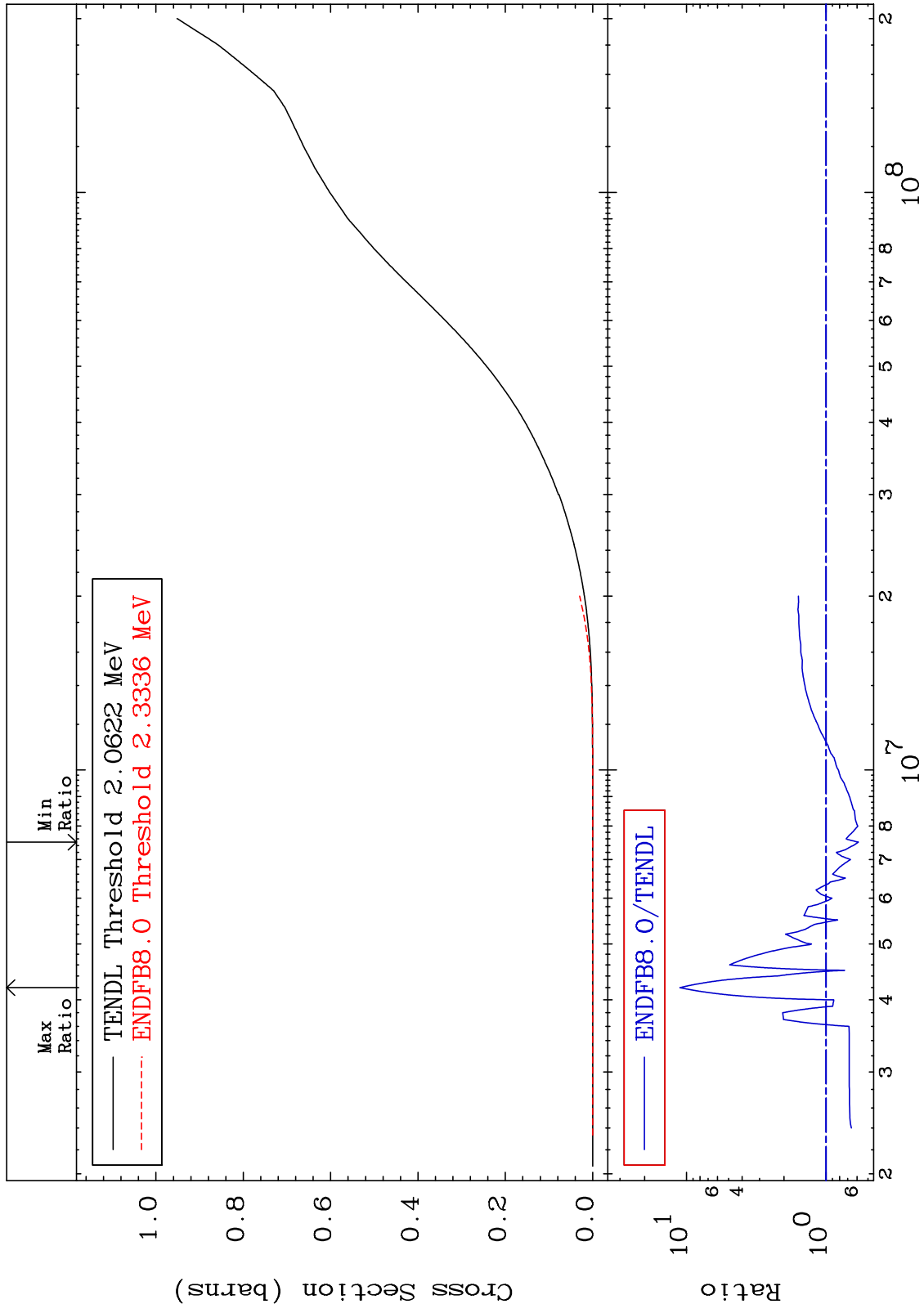
Incident Energy (eV)

72-Hf-180

MAT 7243

Hydrogen Production Cross Section

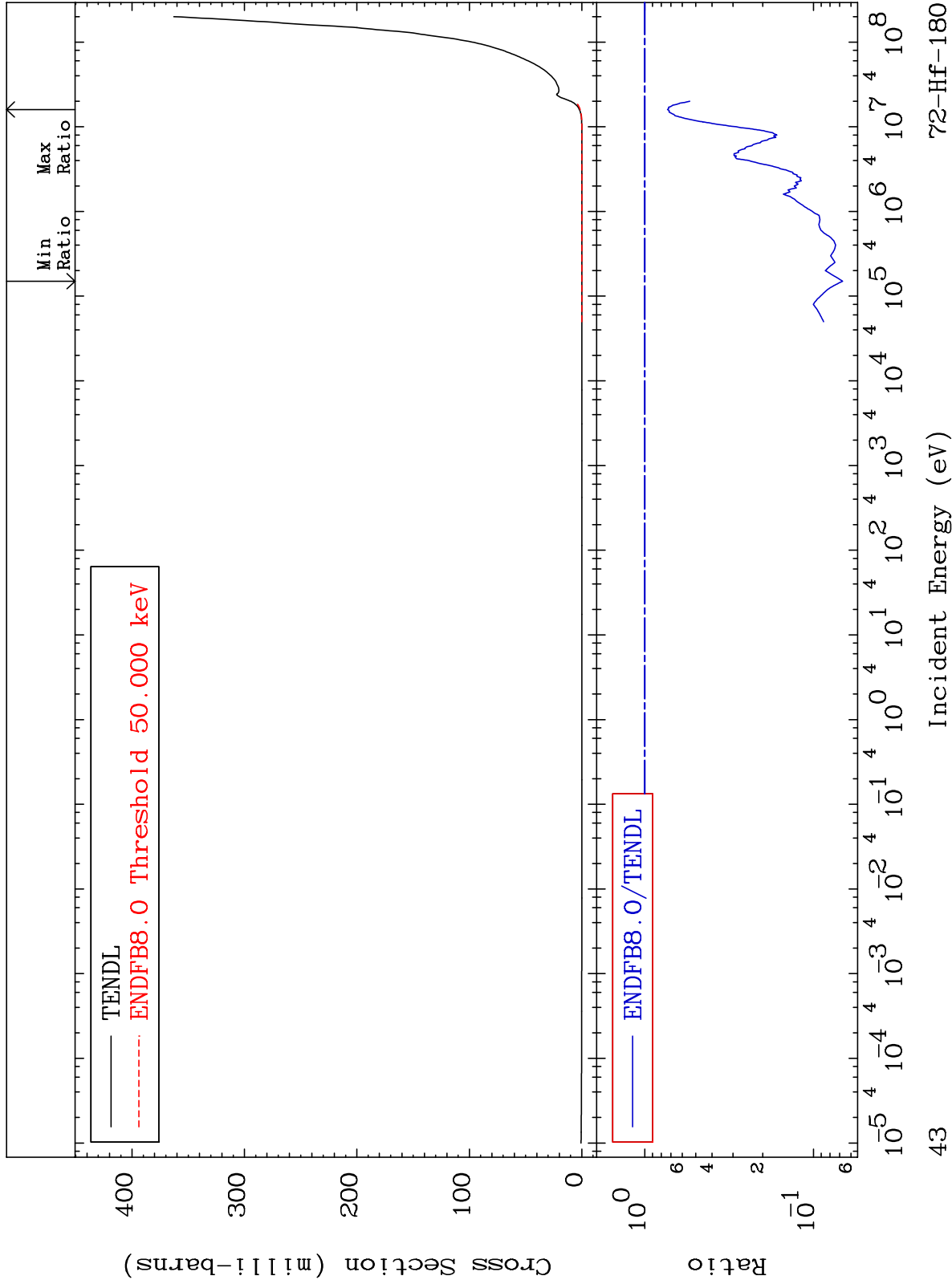
72-Hf-180
-41.37 To 1014. %



MAT 7243

He-4 Production
Cross Section

72-Hf-180
-93.28 To -26.64%



43

Incident Energy (eV)

72-Hf-180

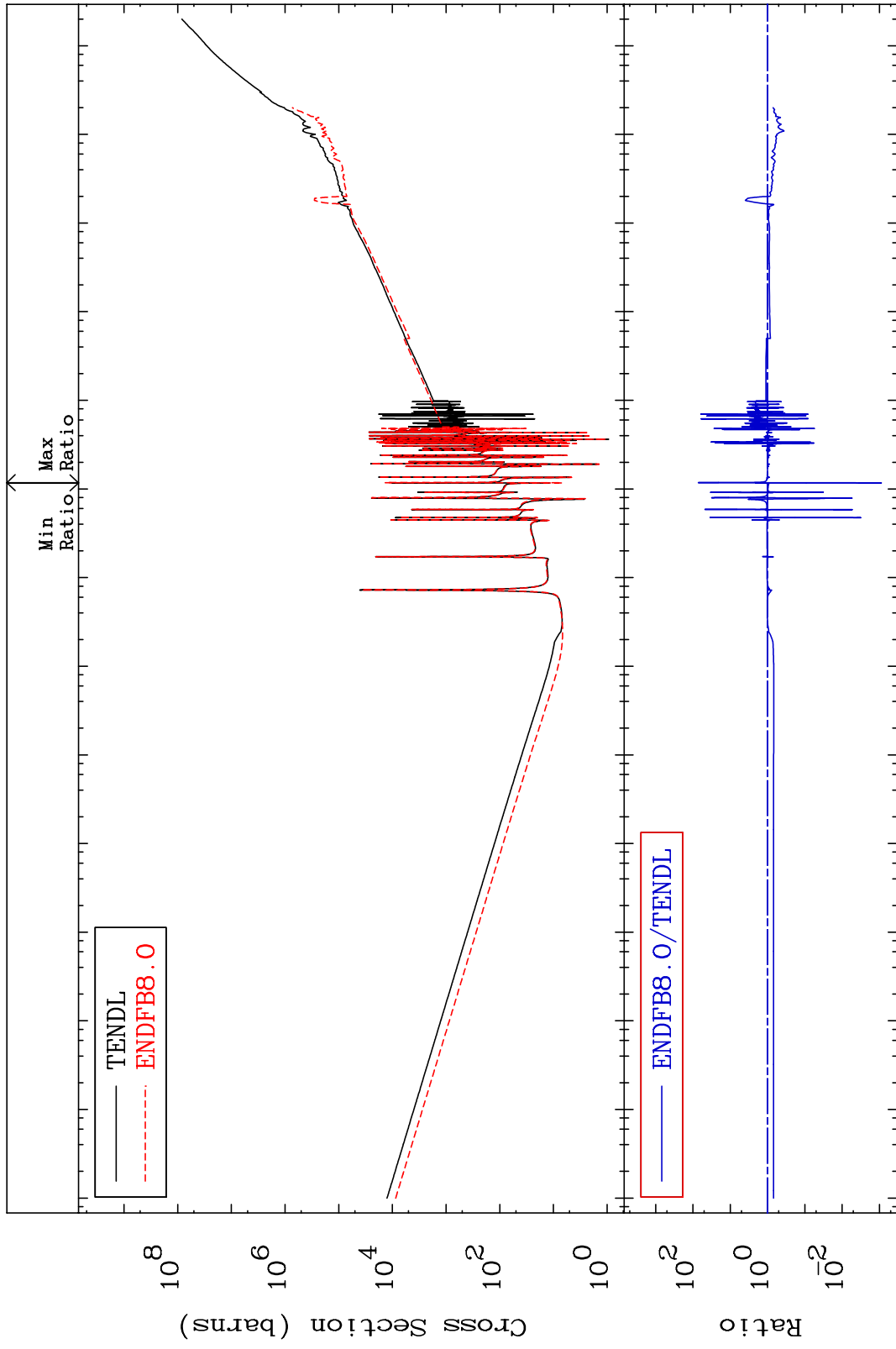
MAT 7243

Kerma total (eV-barns)

72-Hf-180

-99.91 To 7081. %

Cross Section



Ratio

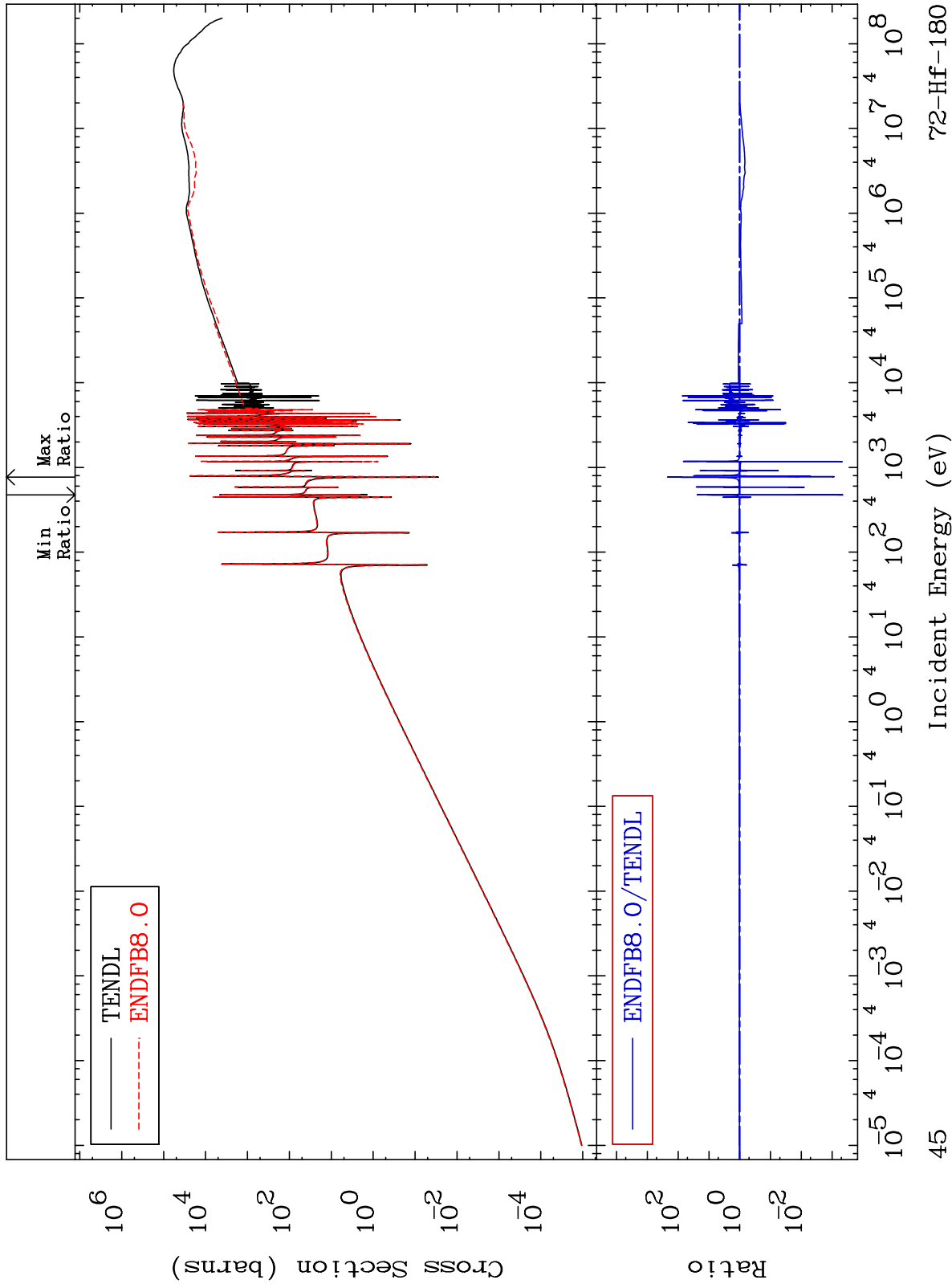
Incident Energy (eV)

72-Hf-180

MAT 7243

Kerma elastic
Cross Section

72-Hf-180
-99.95 To 9999. %



45

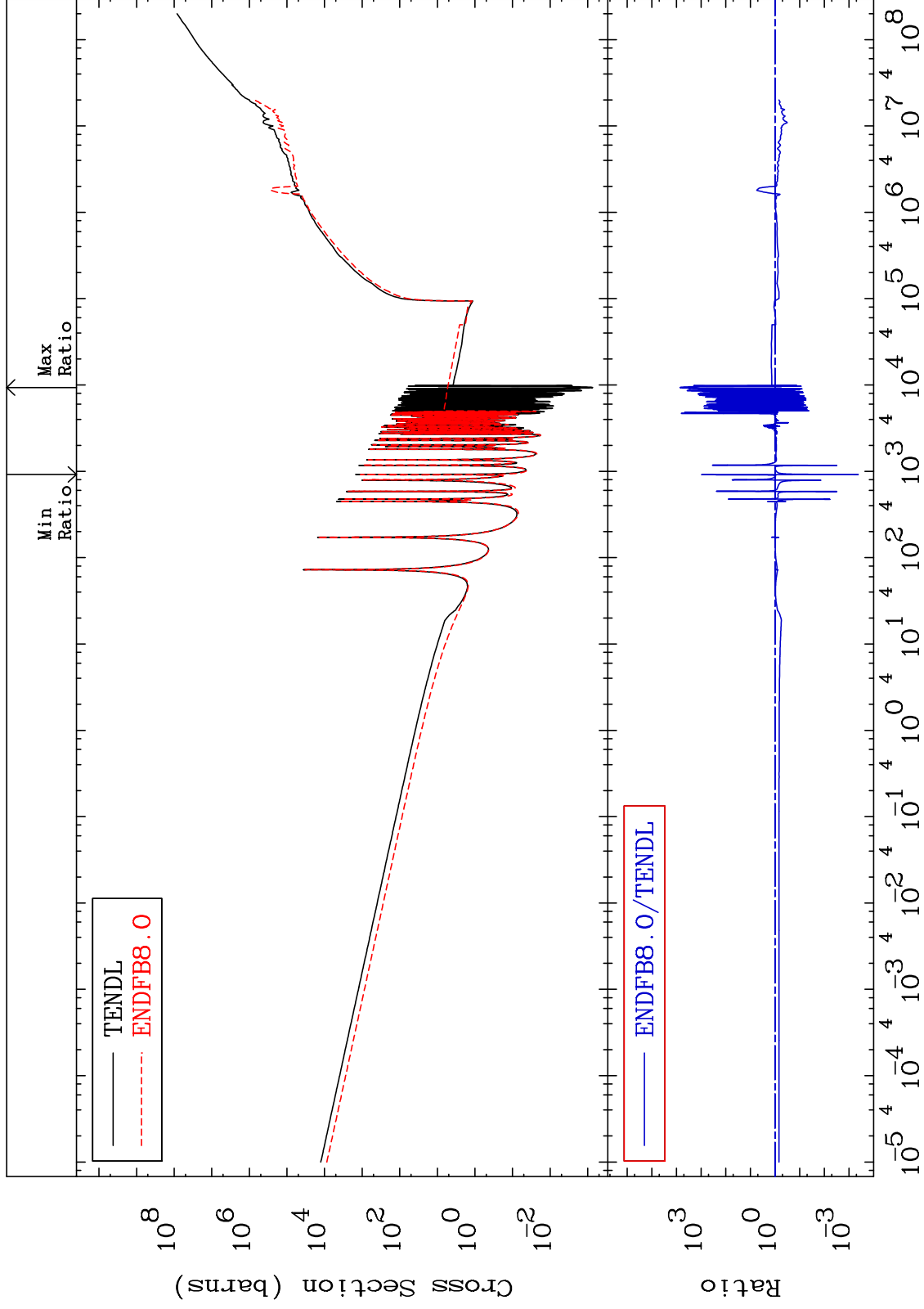
Incident Energy (eV)

72-Hf-180

MAT 7243

Kerma non-elastic (all but mt2)
Cross Section

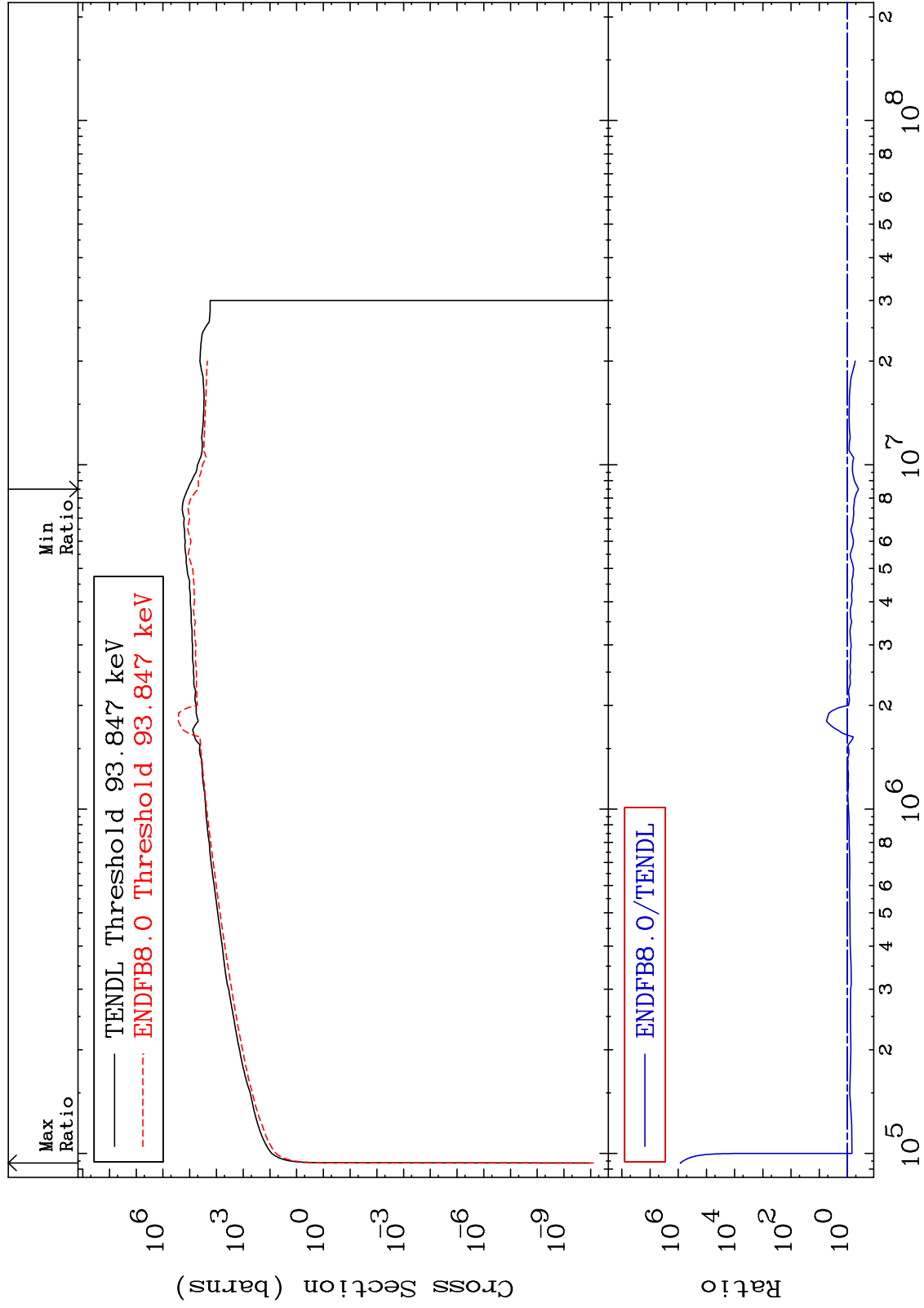
72-Hf-180
-99.96 To 9999. %



MAT 7243

Kerma inelastic (mt51-91)
Cross Section

72-Hf-180
-59.53 To 9999. %



47

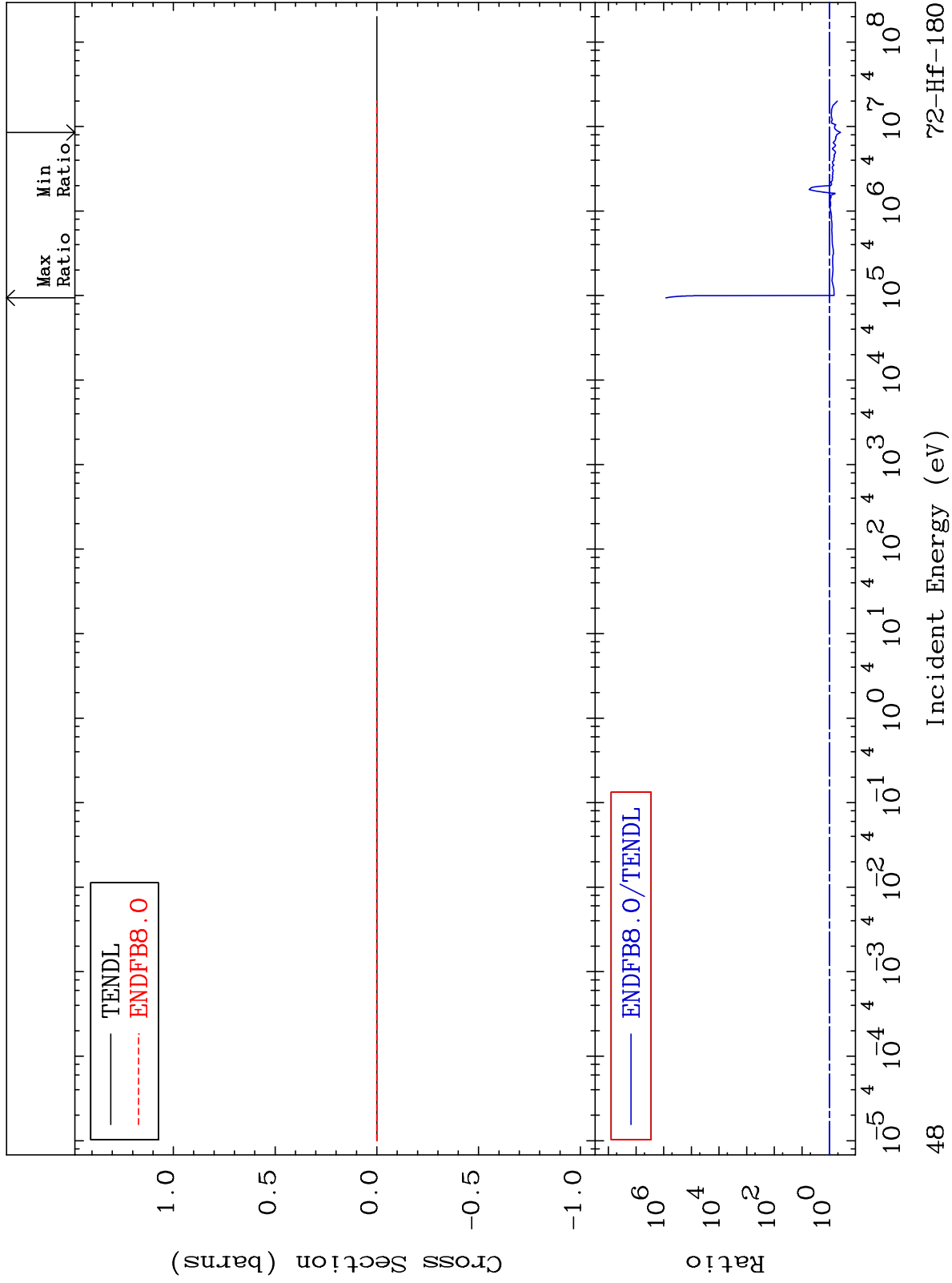
Incident Energy (eV)

72-Hf-180

MAT 7243

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

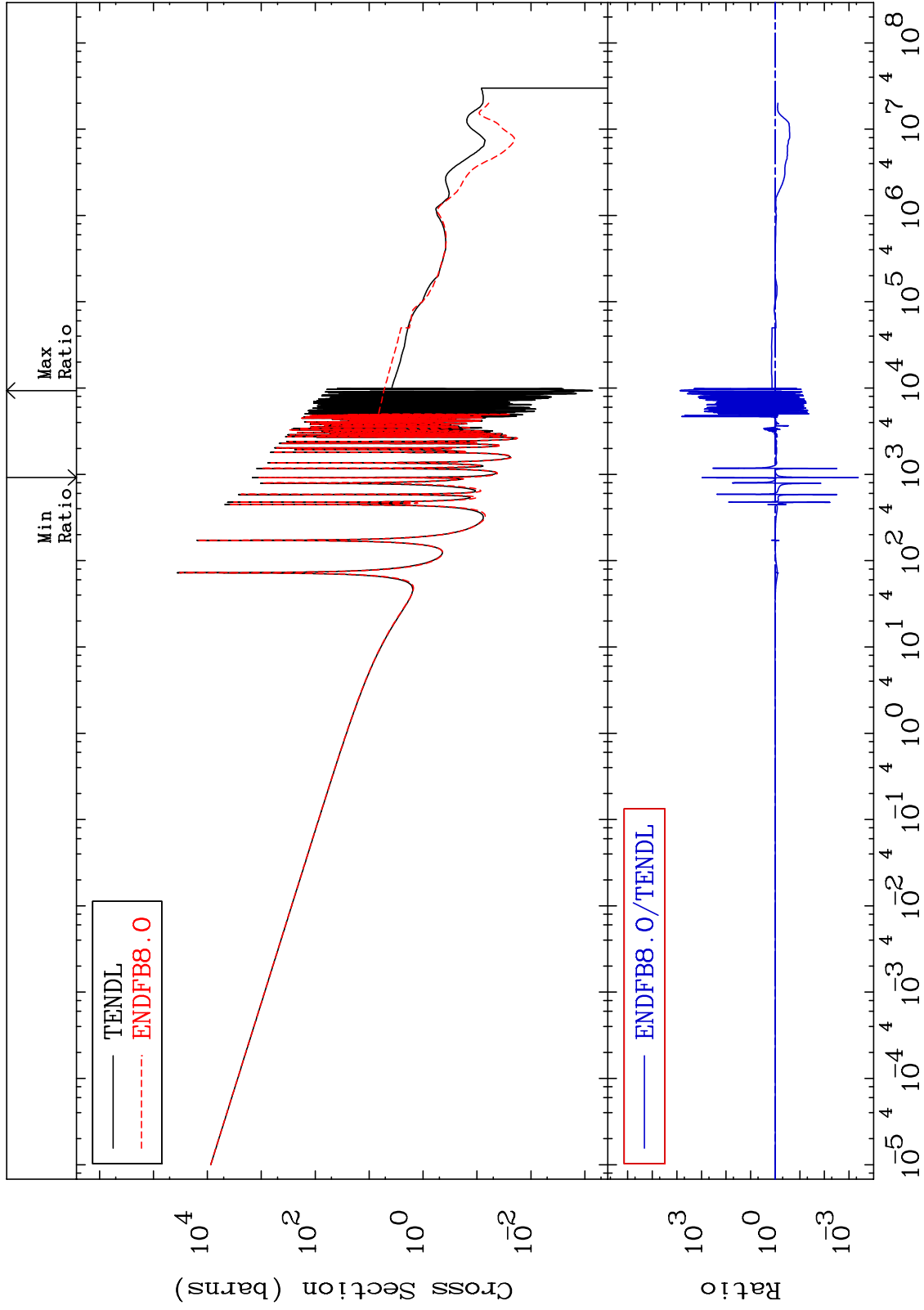
72-Hf-180
-59.53 To 9999. %



MAT 7243

Kerma capture (mt102)
Cross Section

72-Hf-180
-99.96 To 9999. %



49

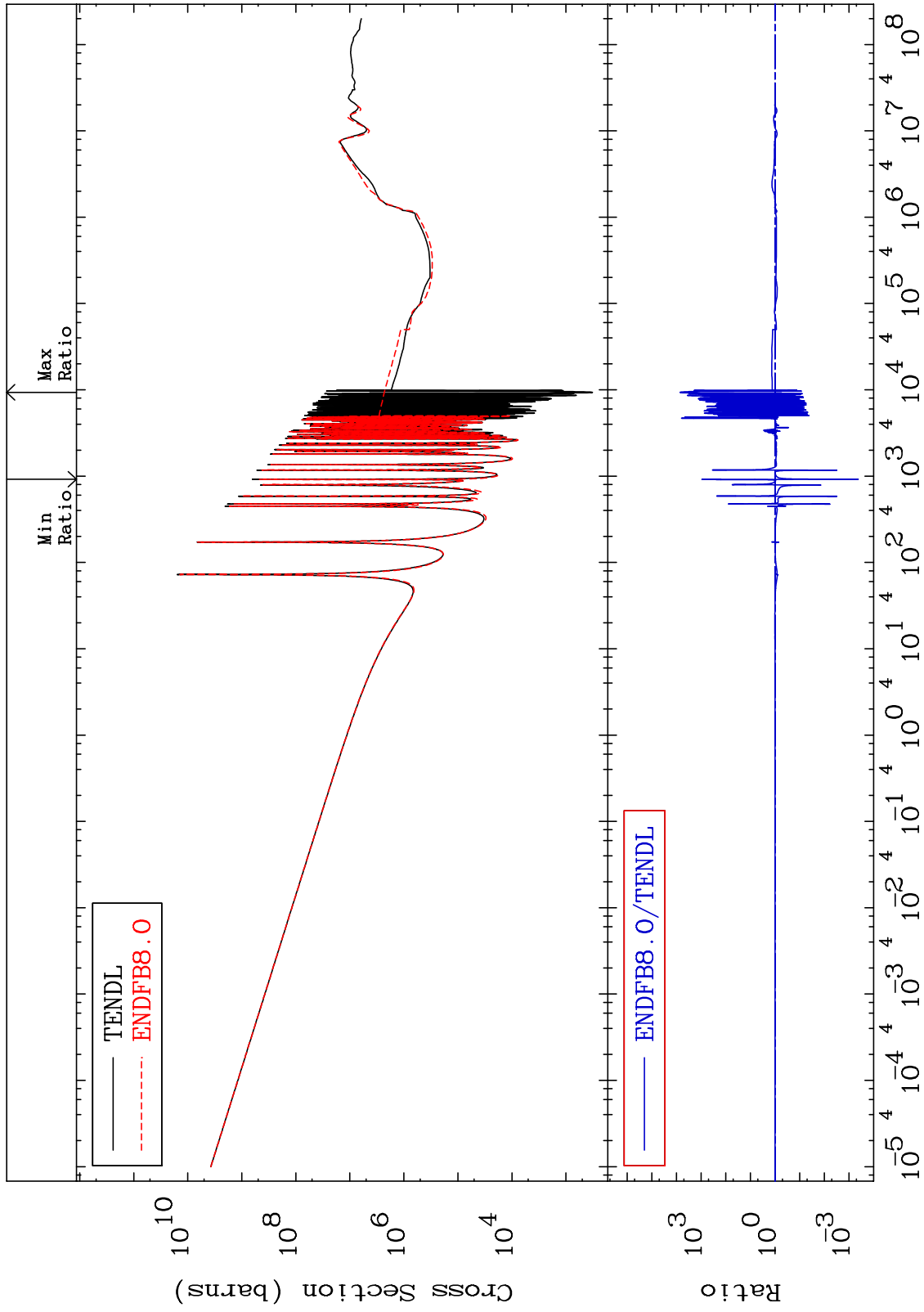
Incident Energy (eV)

72-Hf-180

MAT 7243

Total photon (eV-barns)
Cross Section

72-Hf-180
-99.96 To 9999. %



50

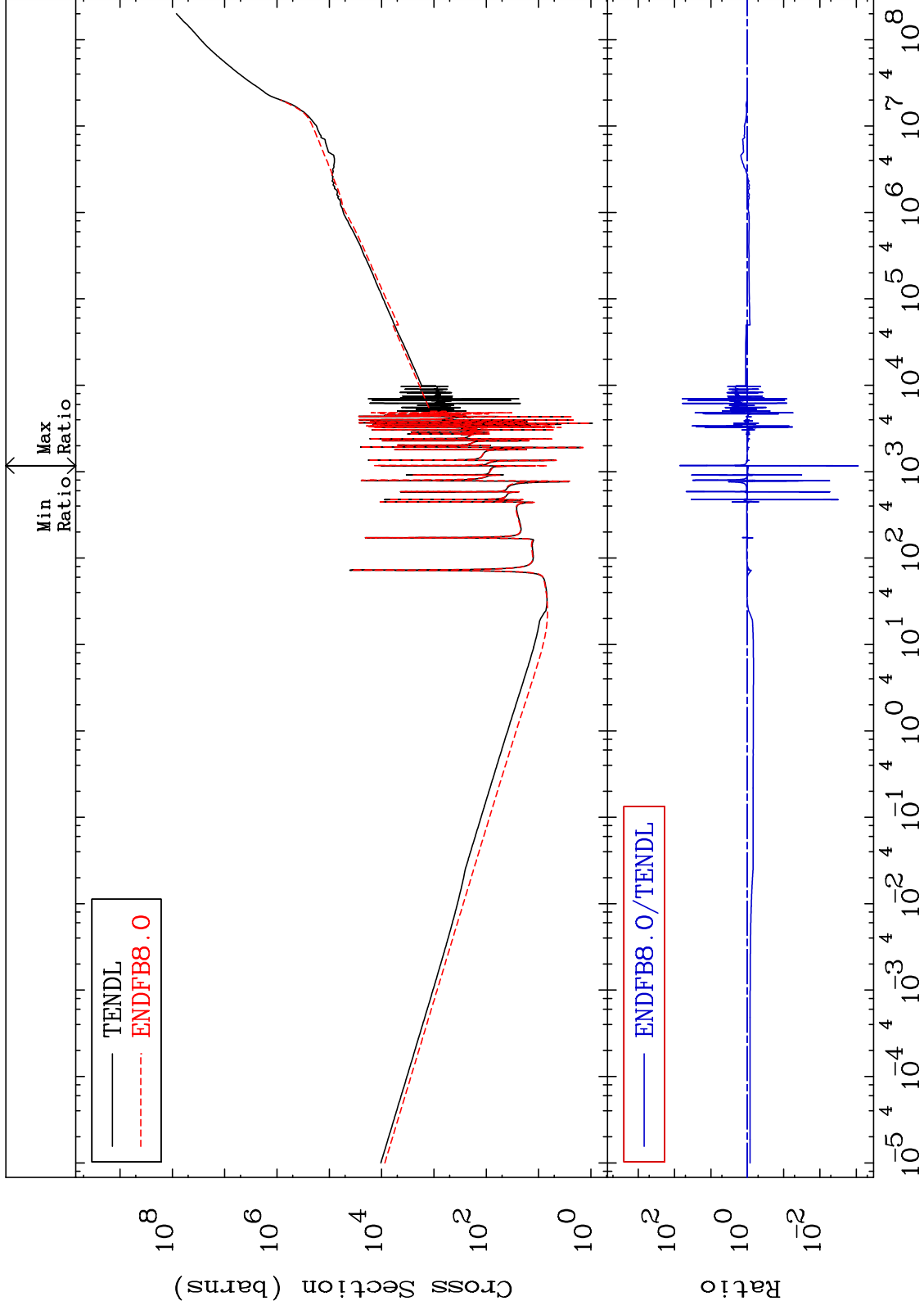
Incident Energy (eV)

72-Hf-180

MAT 7243

Total kinematic kerma (high limit)
Cross Section

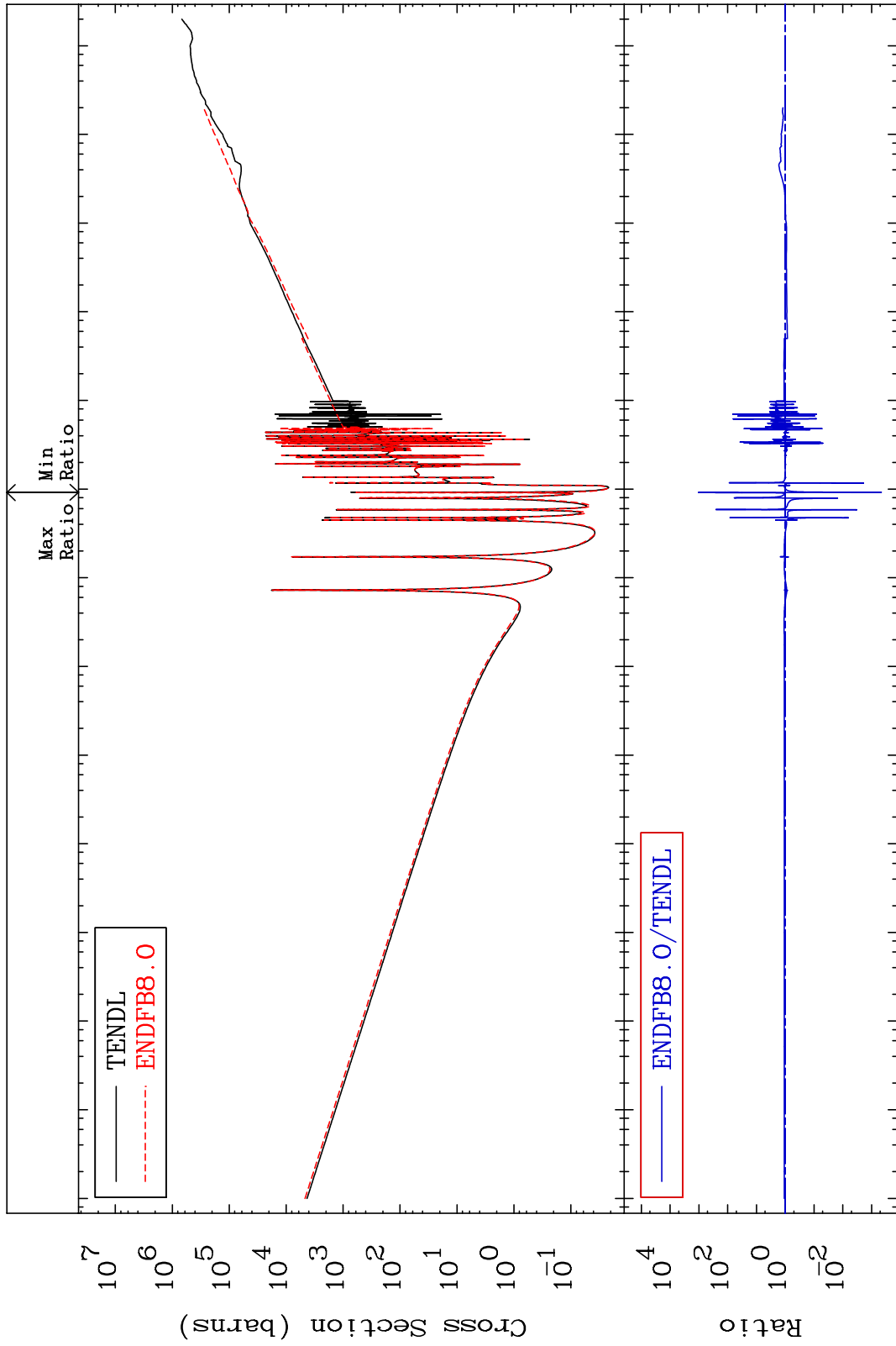
72-Hf-180
-99.91 To 7081. %



MAT 7243

Dpa total (eV-barns)
Cross Section

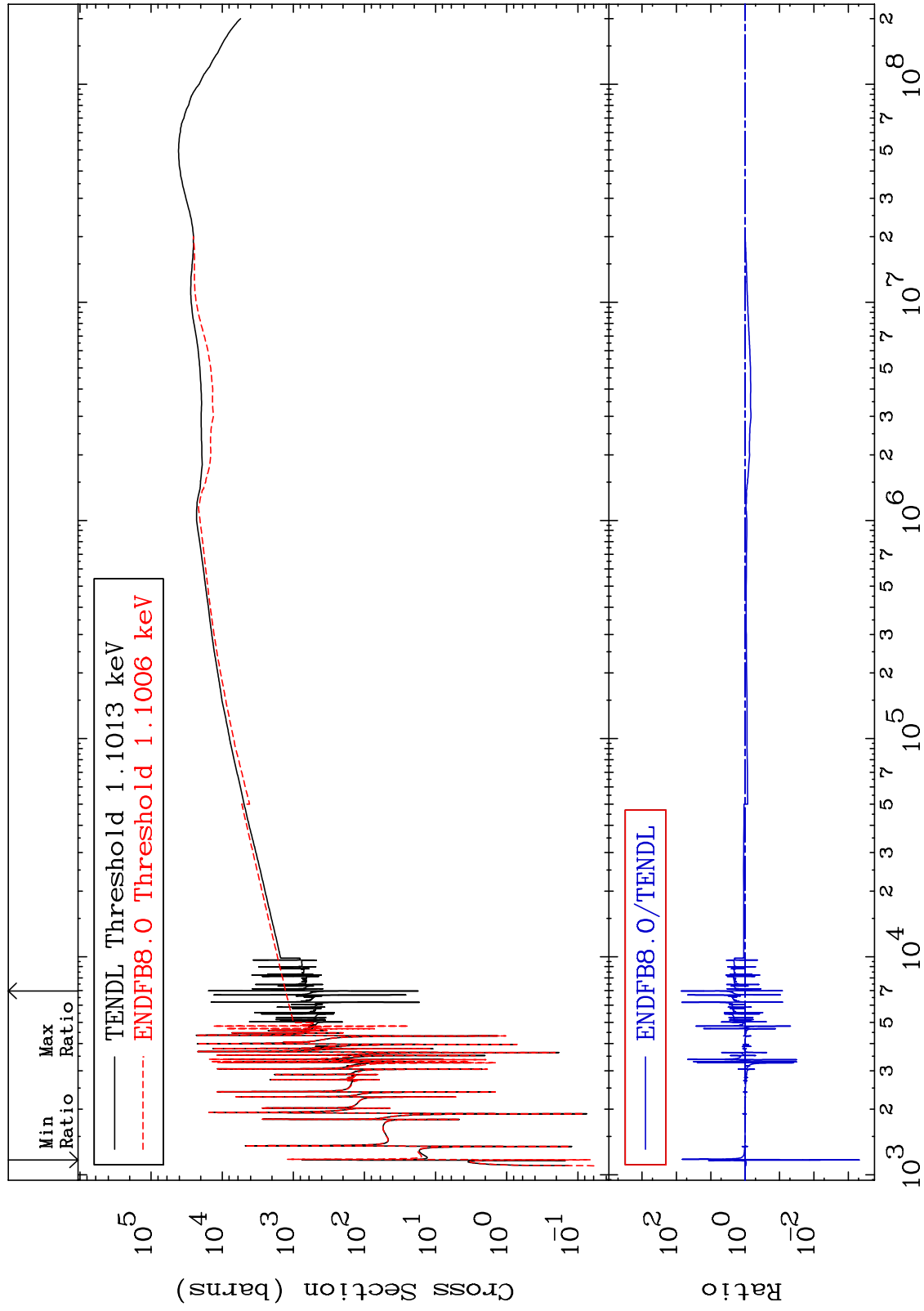
72-Hf-180
-99.96 To 9999. %



MAT 7243

Dpa elastic (mt2)
Cross Section

72-Hf-180
-99.95 To 7222. %



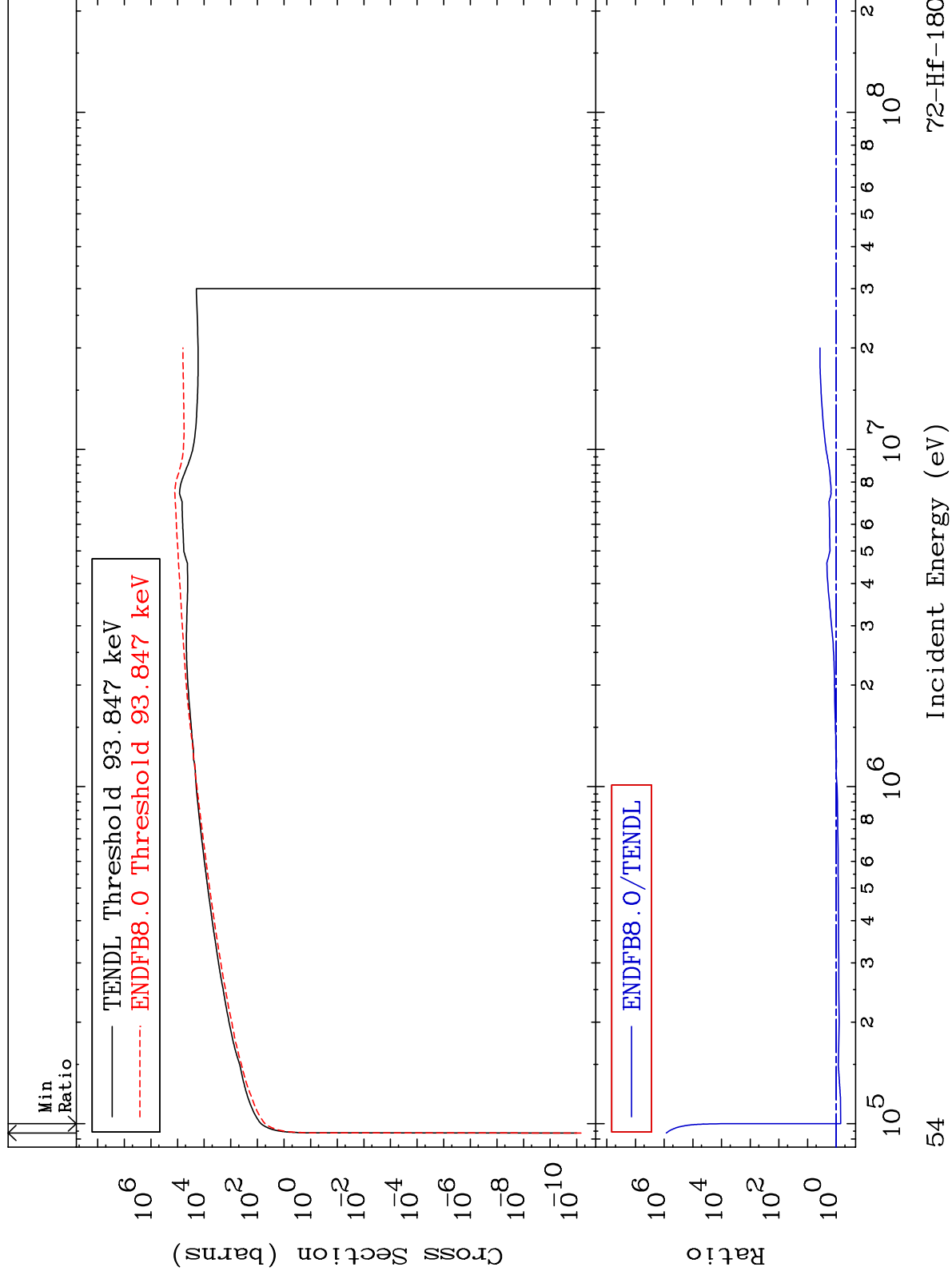
53

72-Hf-180

MAT 7243

Dpa inelastic (mt51-91)
Cross Section

72-Hf-180
-29.97 To 9999. %



MAT 7243

Dpa disappearance (mt102 -120)
Cross Section

72-Hf-180
-99.96 To 9999. %

