

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

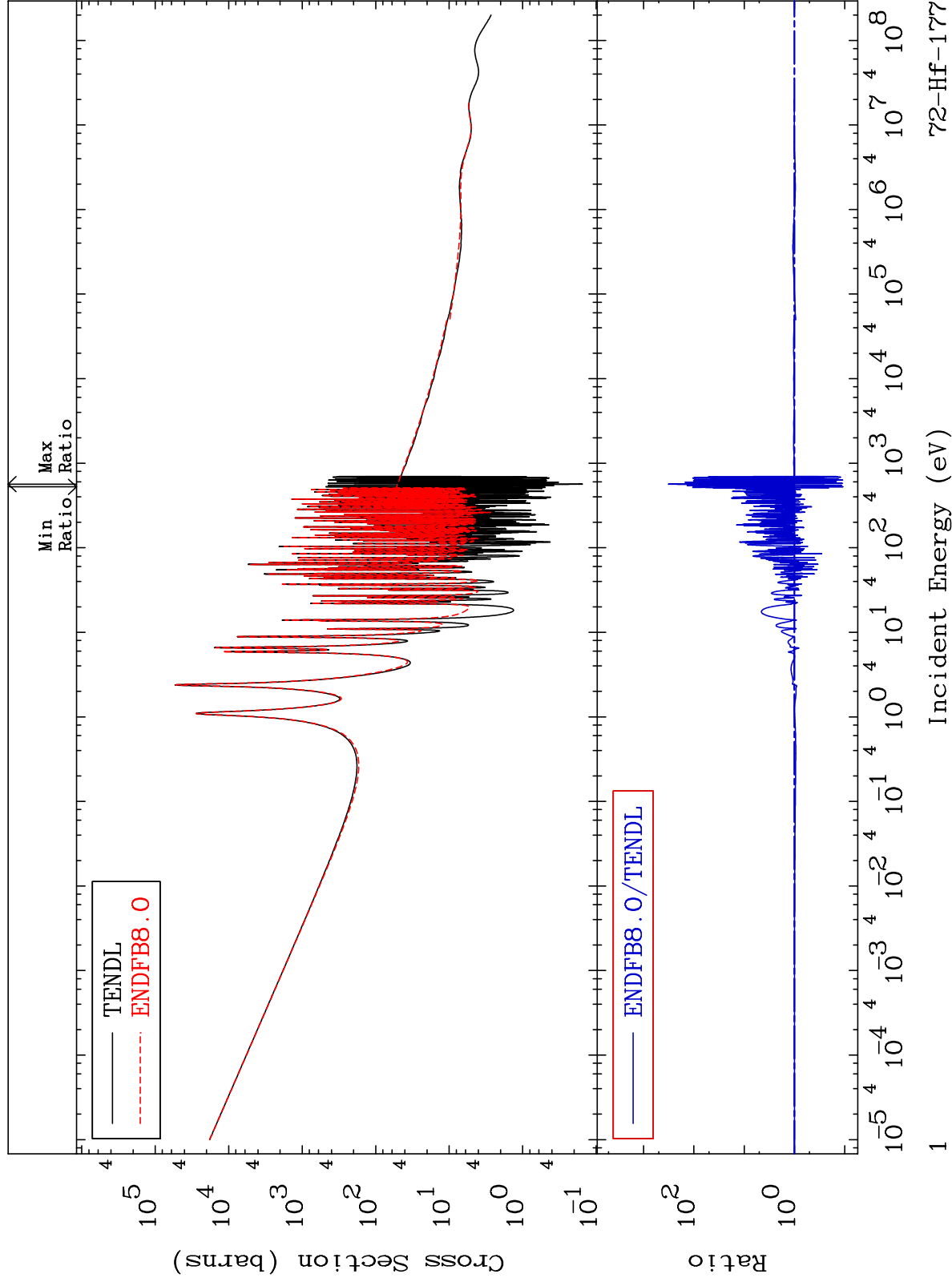
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7234

Total
Cross Section

72-Hf-177
-89.15 To 9999. %



72-Hf-177

Incident Energy (eV)

1

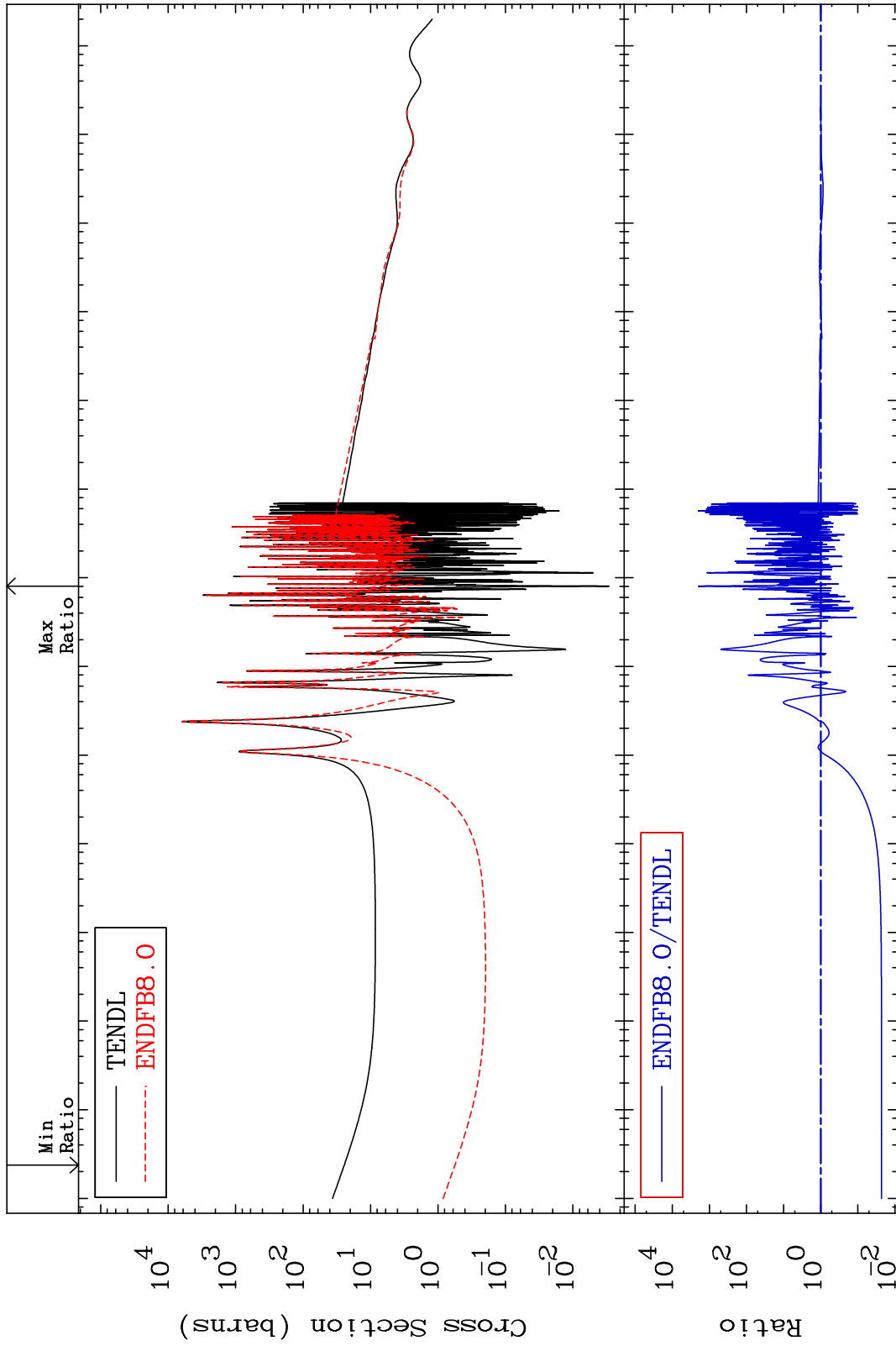
MAT 7234

Elastic

72-Hf-177

Cross Section

-97.71 To 9999. %



Incident Energy (eV)

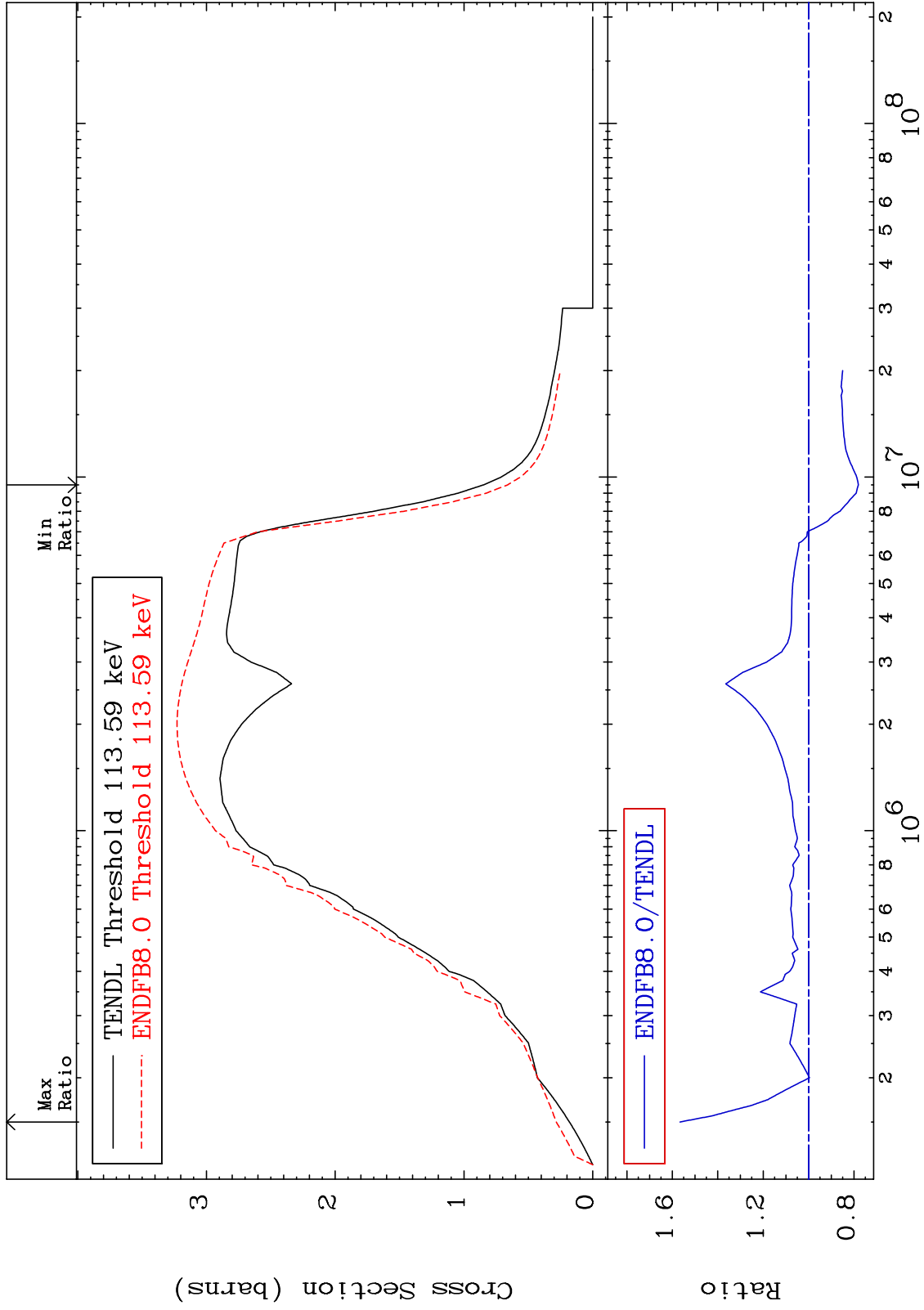
72-Hf-177

2

MAT 7234

Inelastic
Cross Section

72-Hf-177
-21.94 To 56.61 %



3

Incident Energy (eV)

72-Hf-177

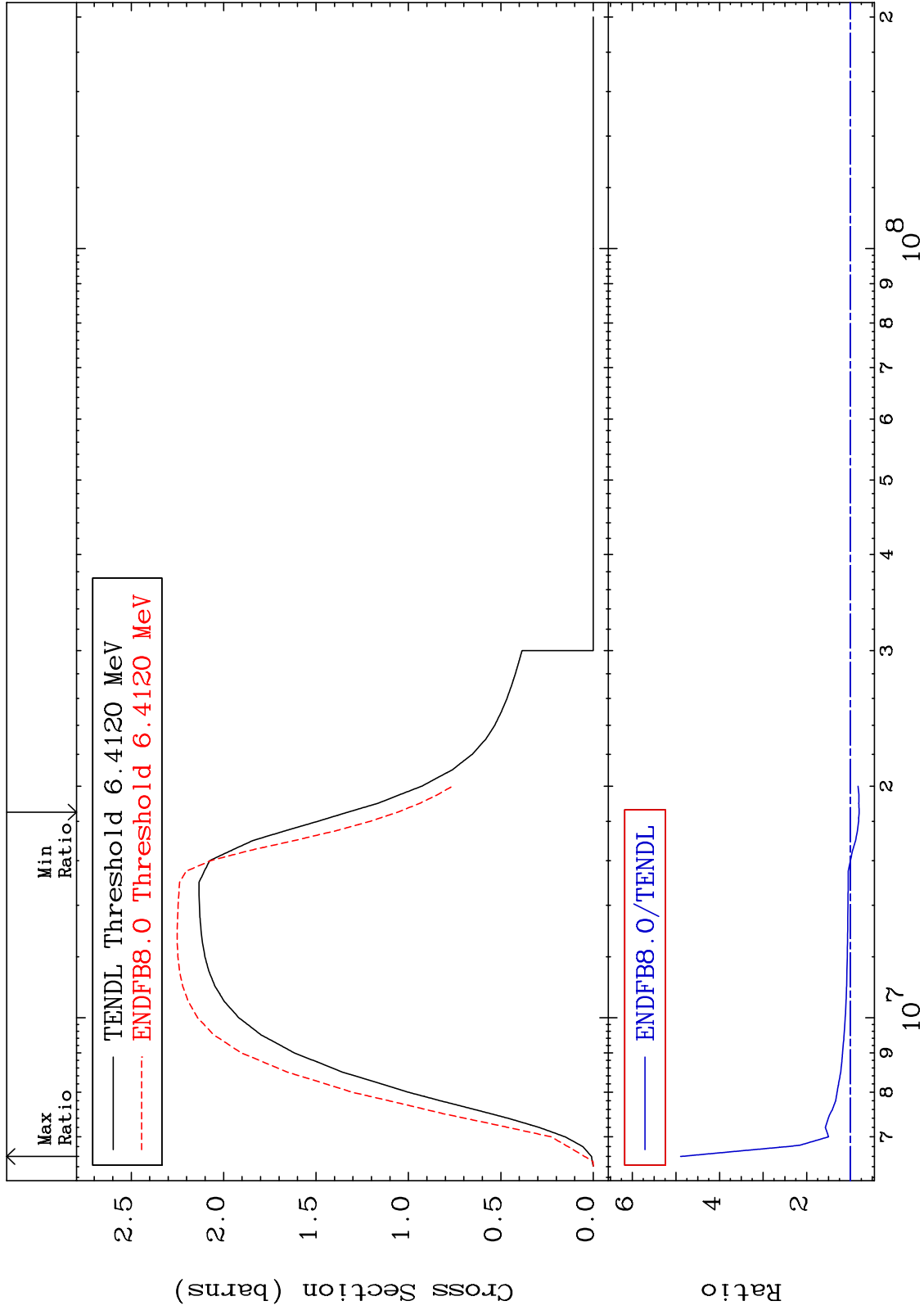
MAT 7234

(n,2n)

⁷²Hf-177

Cross Section

-20.31 To 389.3 %



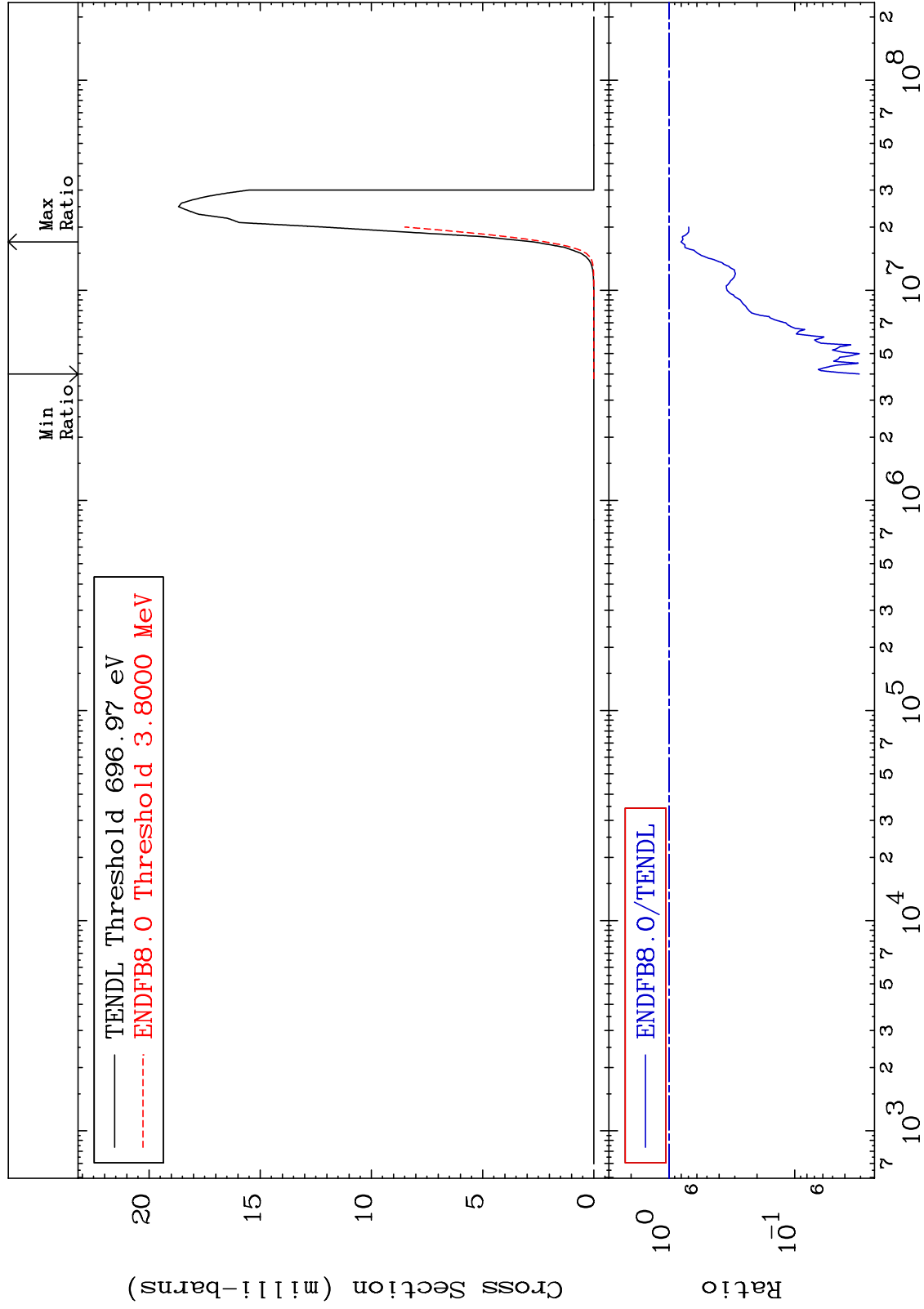
MAT 7234

(n, n') α

Cross Section

72-Hf-177

-96.93 To -19.83%



Incident Energy (eV)

72-Hf-177

6

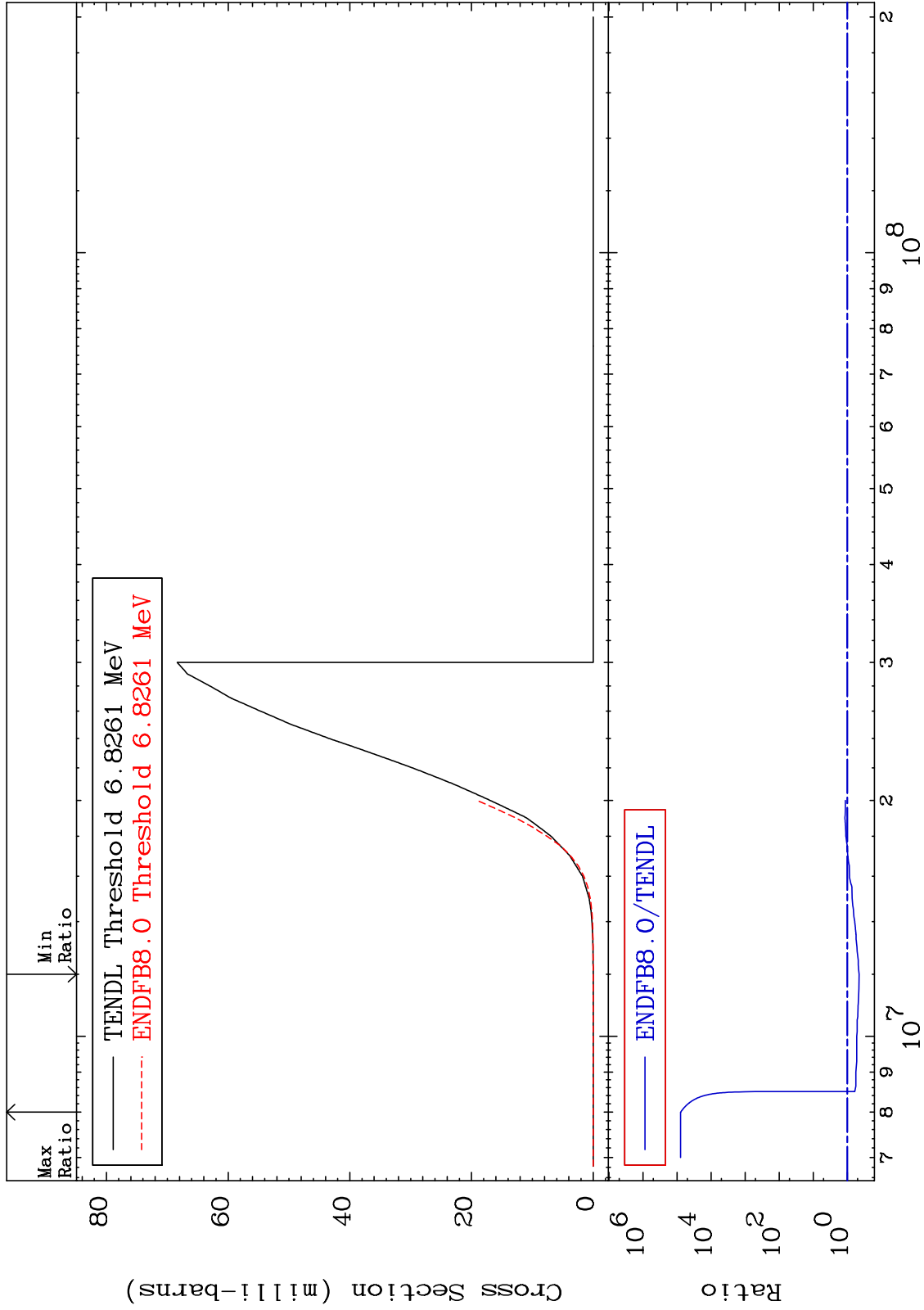
MAT 7234

(n,n') p

72-Hf-177

Cross Section

-55.36 To 9999. %

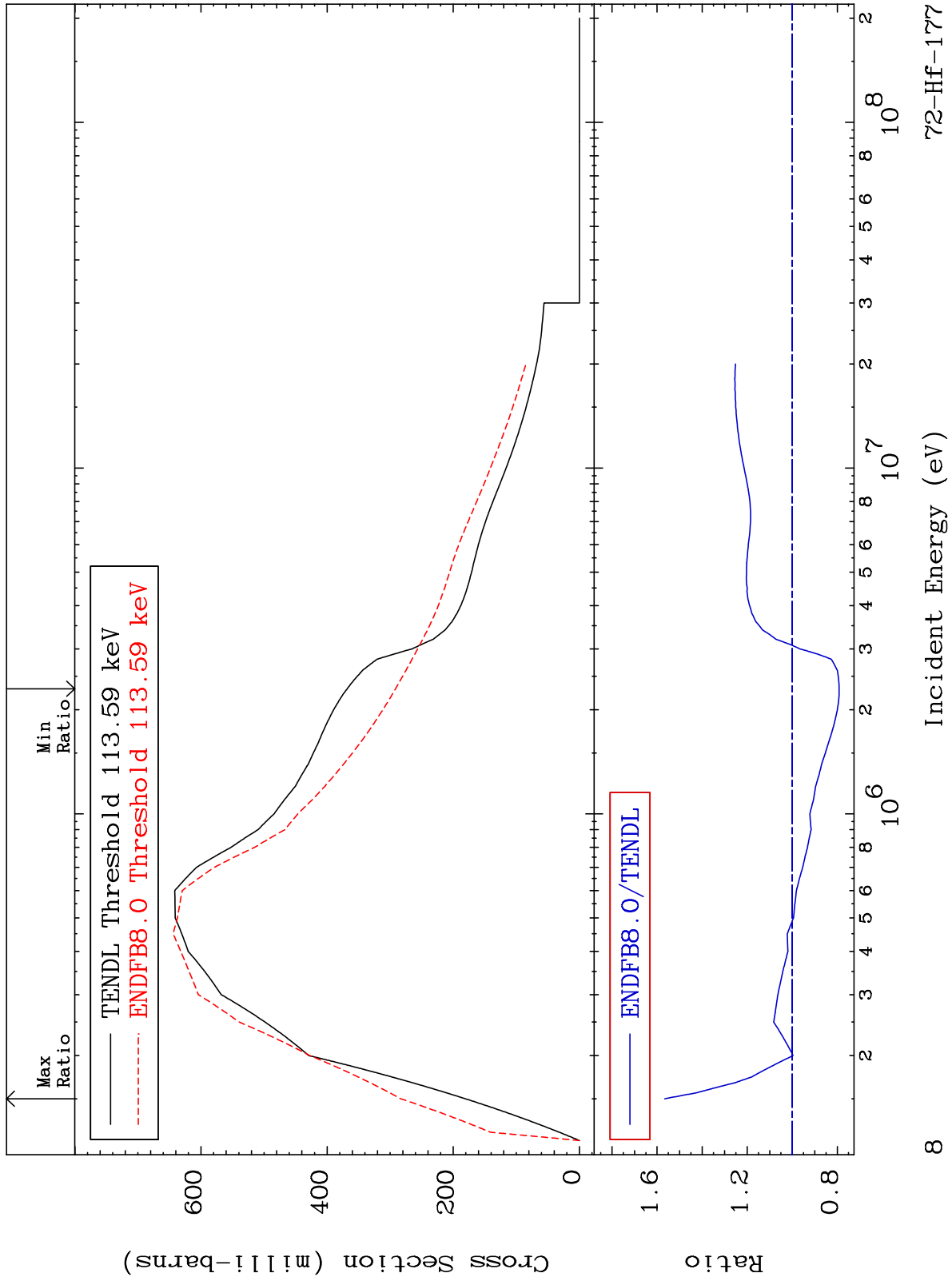


7

Incident Energy (eV)

72-Hf-177

MAT 7234 MT= 51 (n,n') Level Cross Section 72-Hf-177
 -20.82 To 56.61 %

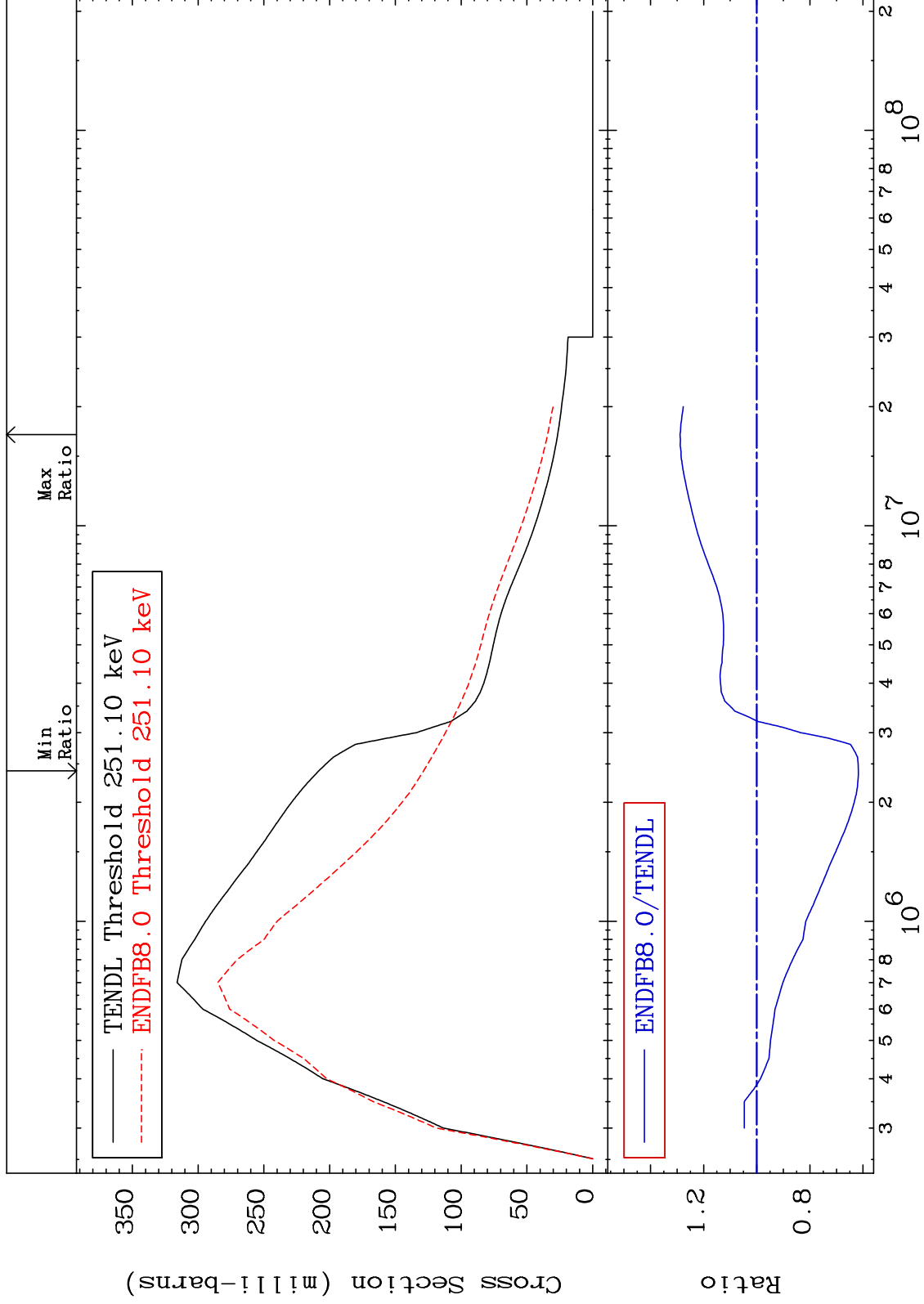


8 72-Hf-177

MAT 7234

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

72-Hf-177
-38.25 To 28.89 %



9

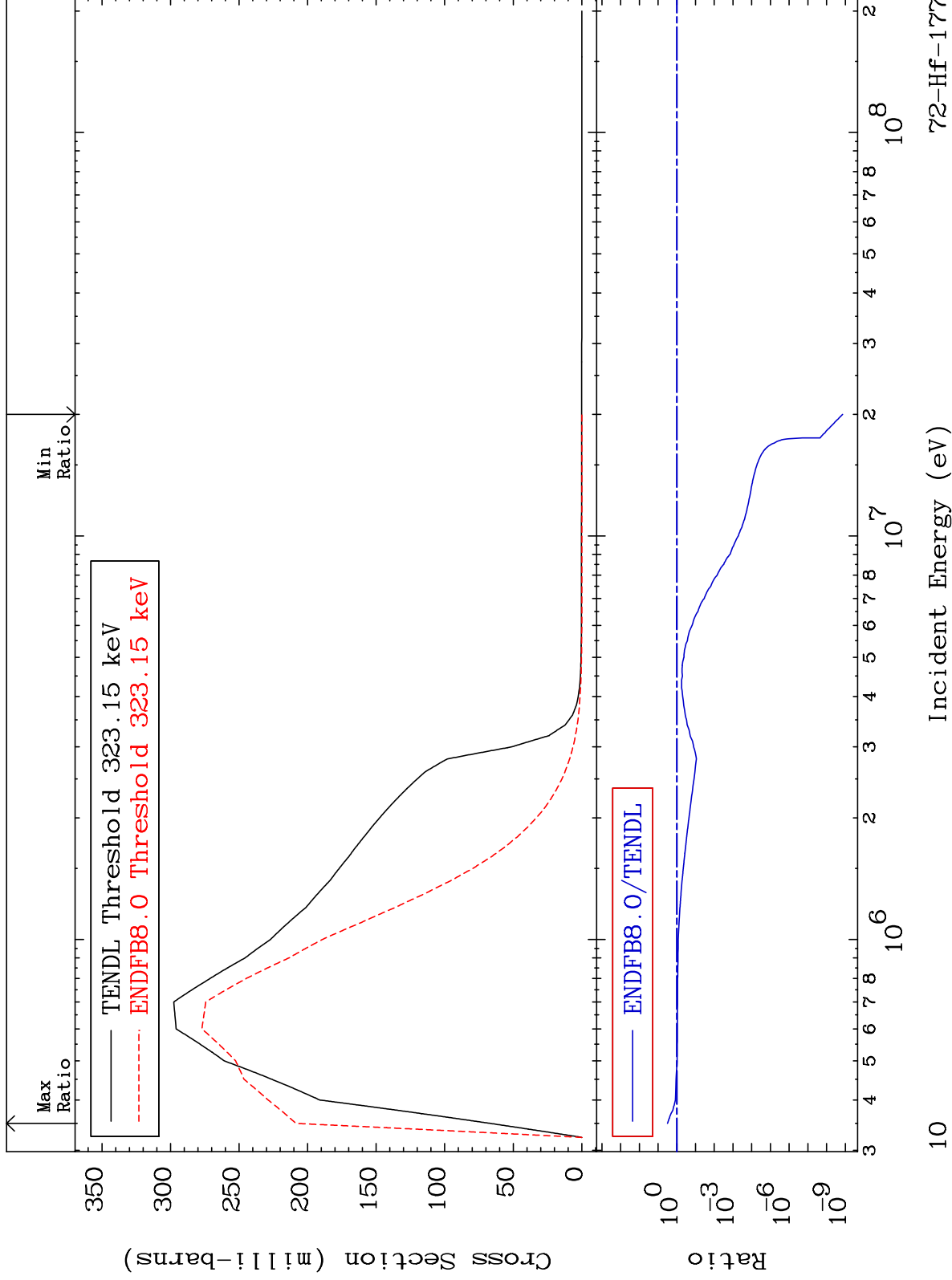
Incident Energy (eV)

72-Hf-177

MAT 7234

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

72-Hf-177
-100.0 To 212.2 %

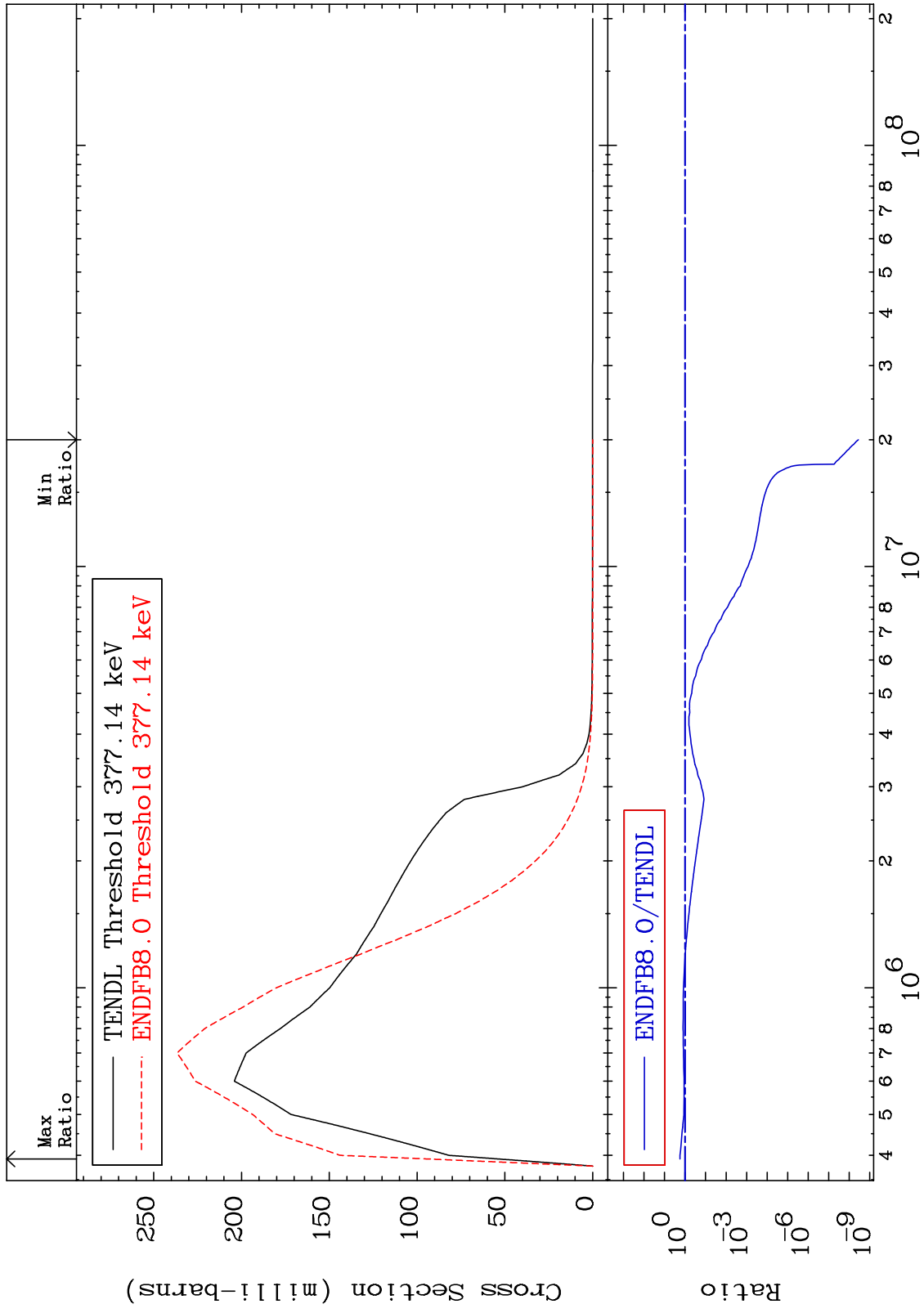


10

Incident Energy (eV)

72-Hf-177

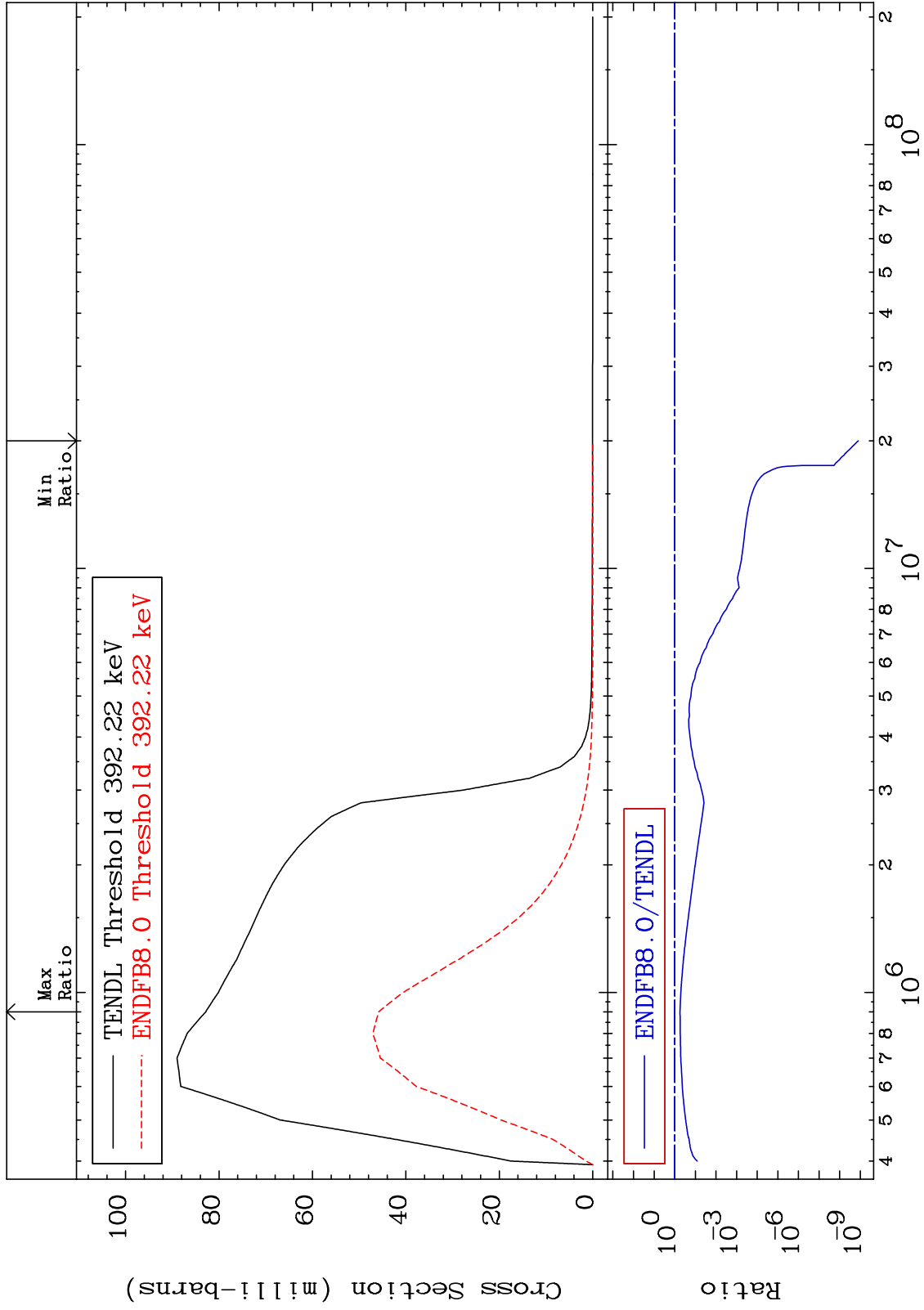
MAT 7234 MT= 54 (n,n') Level 72-Hf-177
 Cross Section -100.0 To 75.45 %



MAT 7234

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

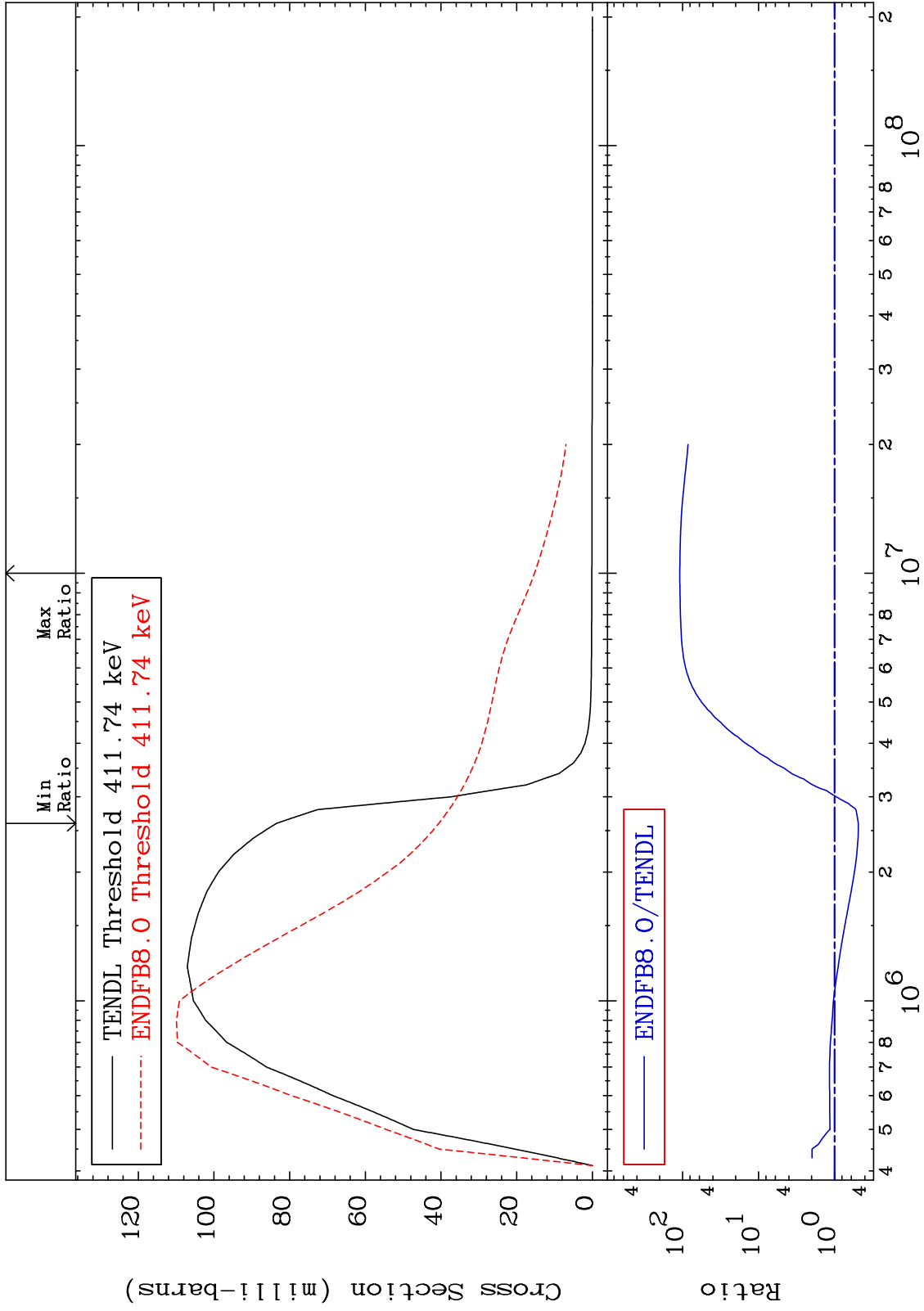
72-Hf-177
-100.0 To -44.69%



MAT 7234

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

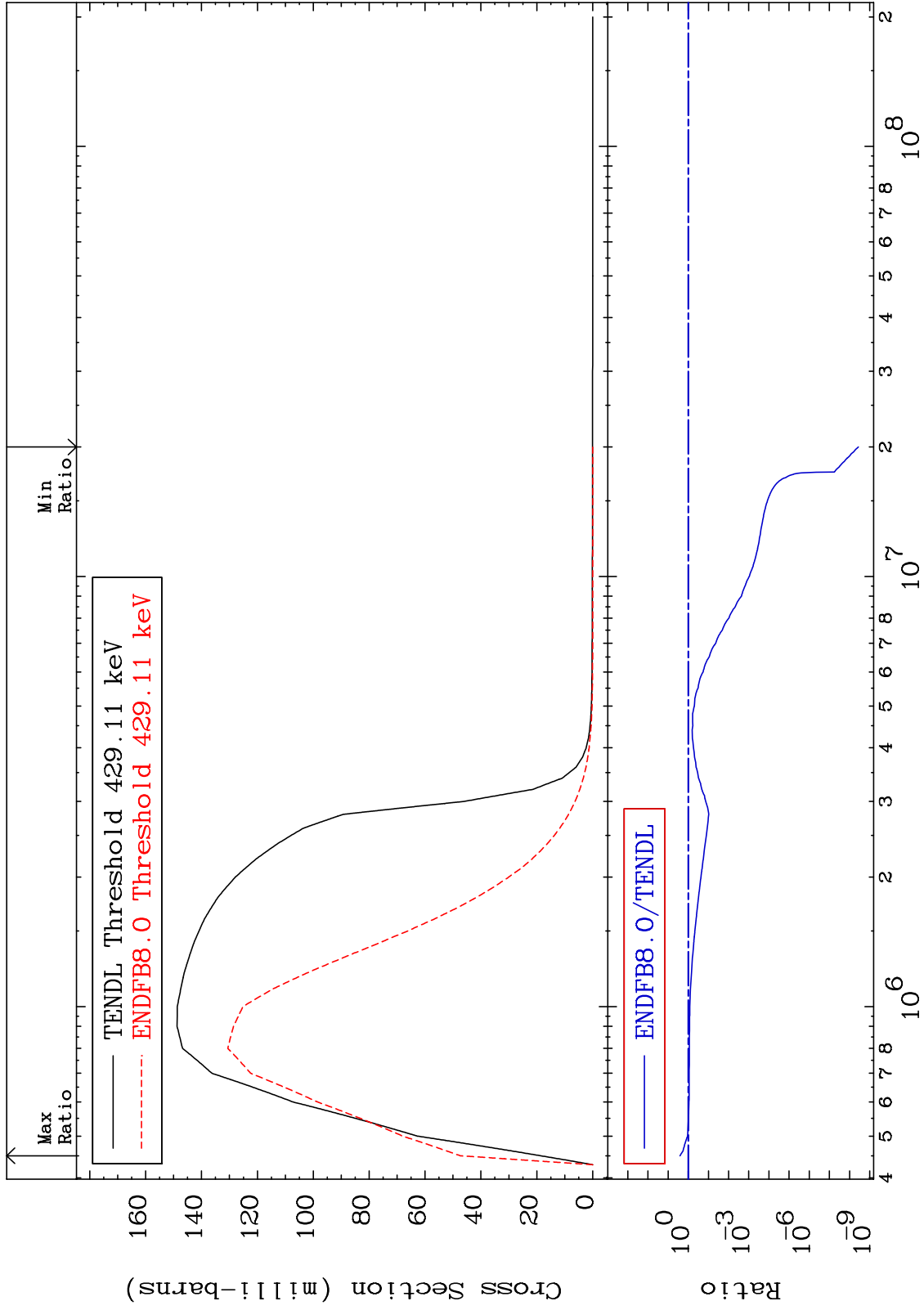
72-Hf-177
-51.39 To 9999. %



MAT 7234

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

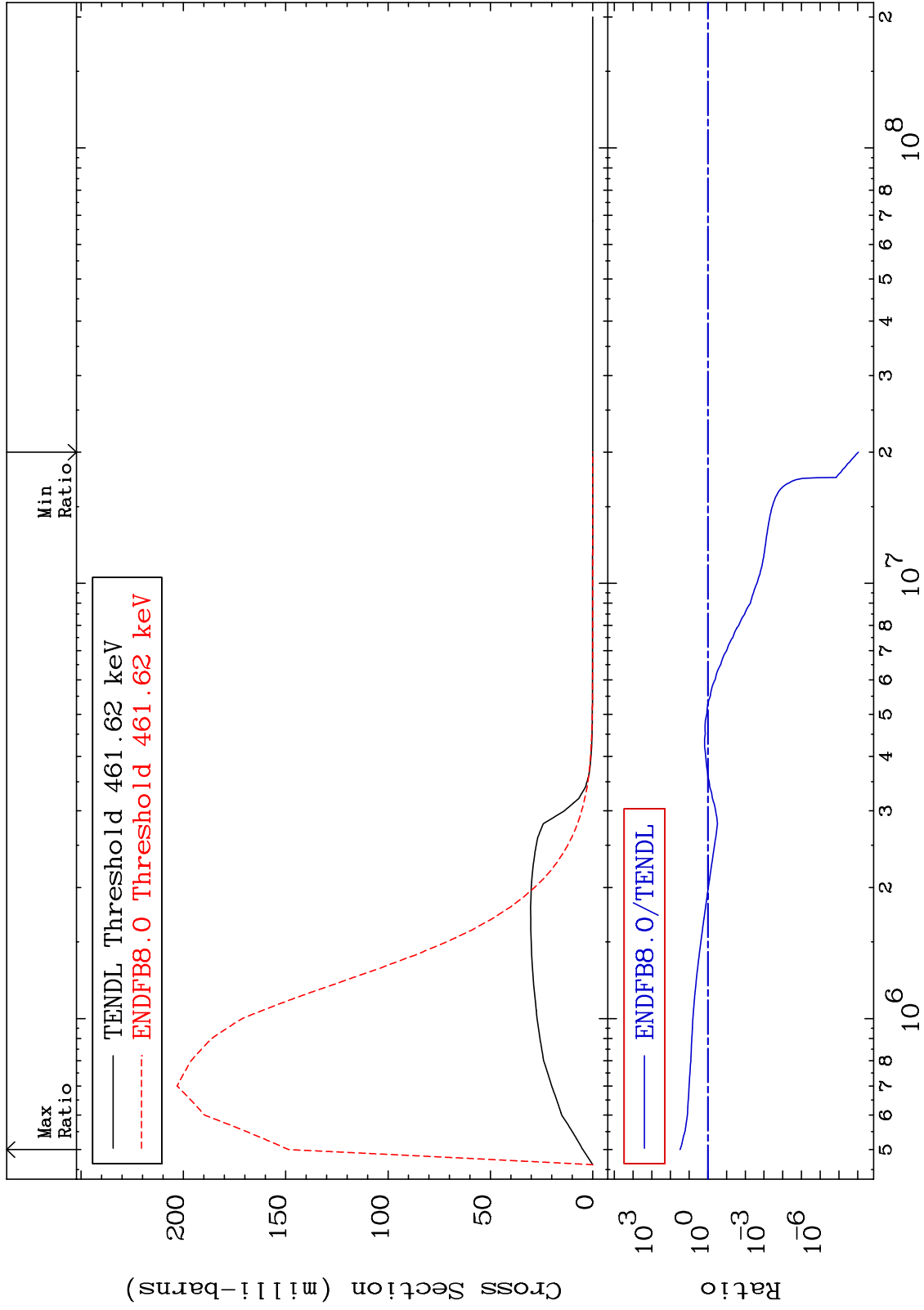
72-Hf-177
-100.0 To 156.2 %



MAT 7234

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

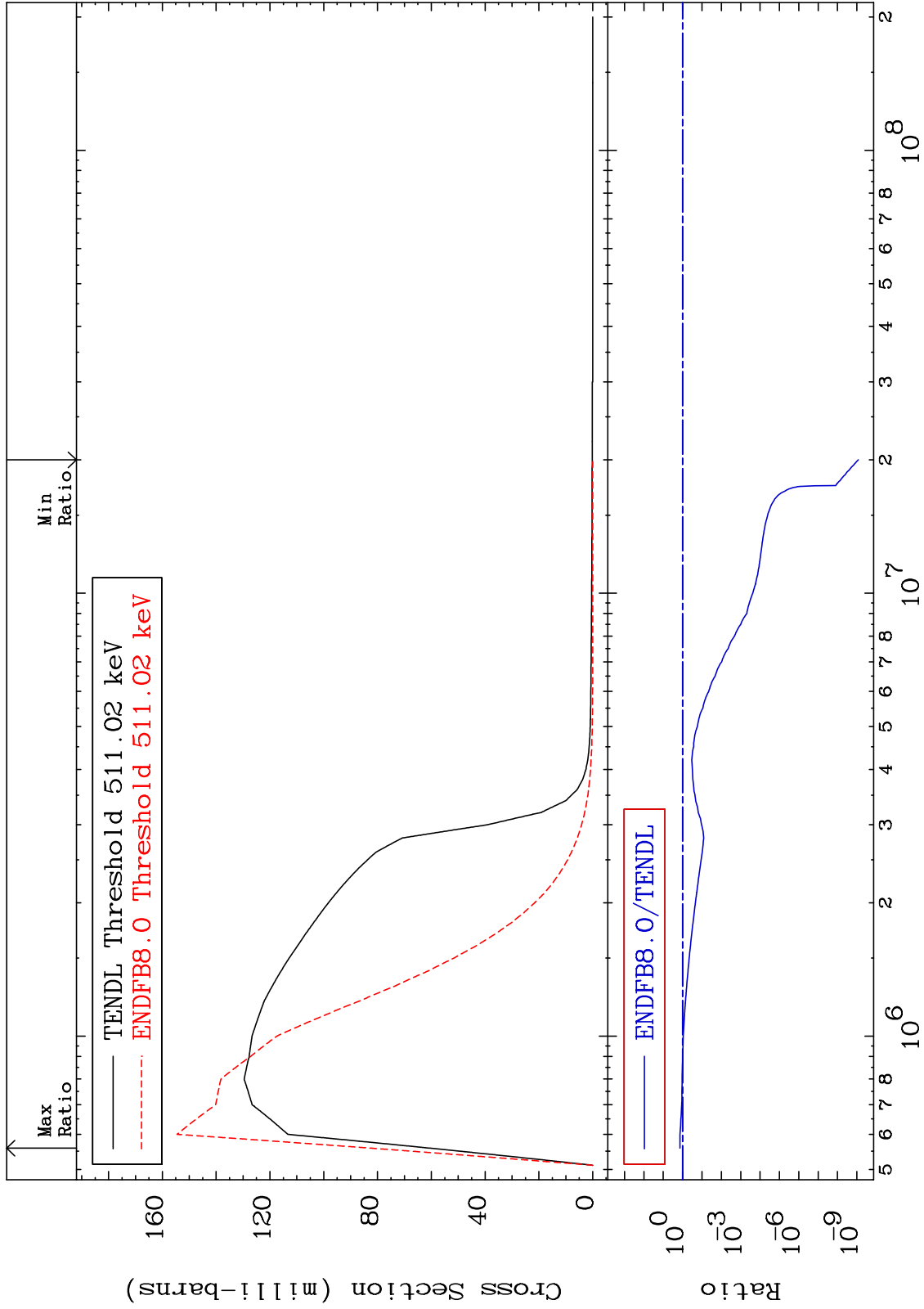
72-Hf-177
-100.0 To 2977. %



MAT 7234

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

72-Hf-177
-100.0 To 36.33 %



16

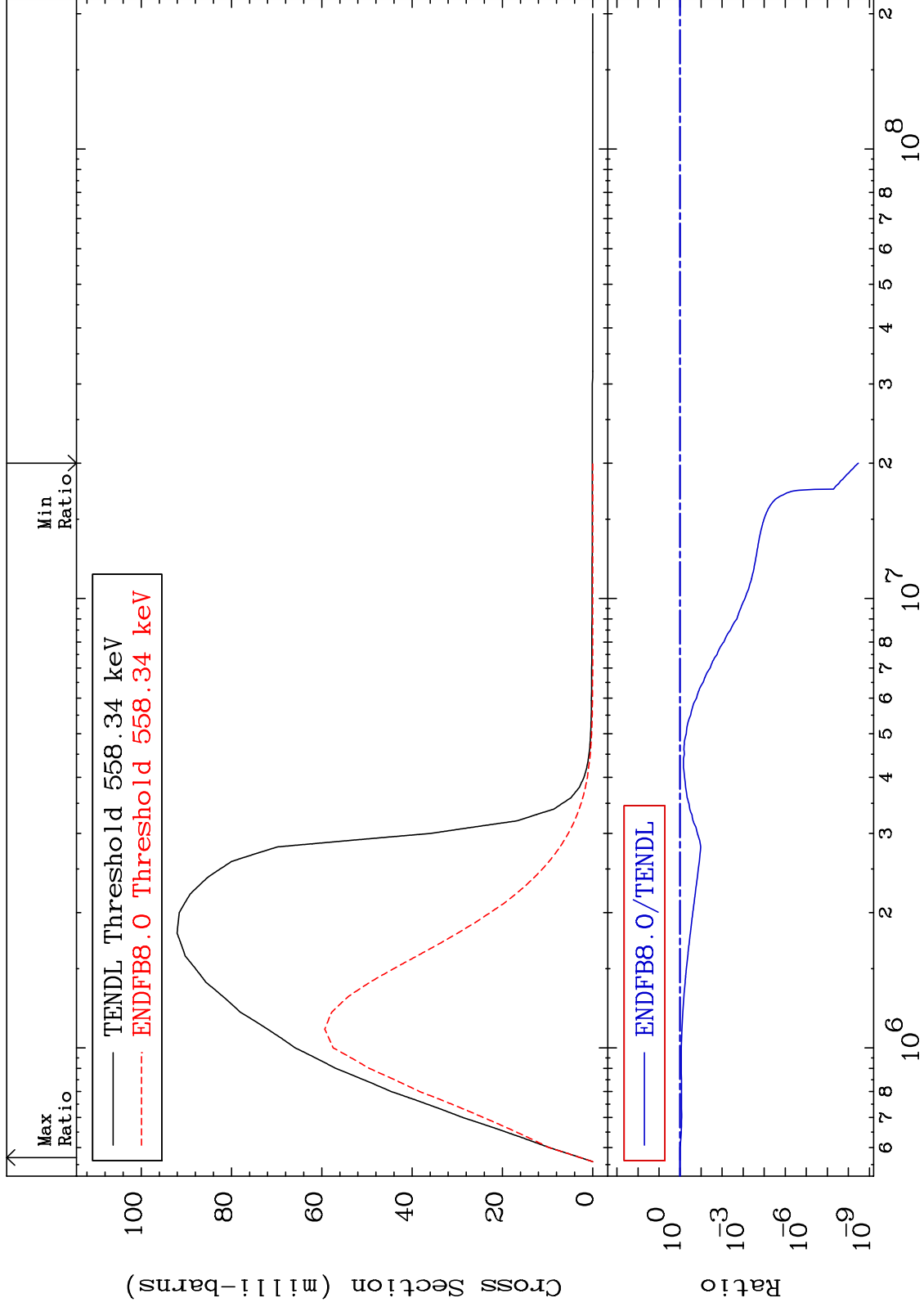
Incident Energy (eV)

72-Hf-177

MAT 7234

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

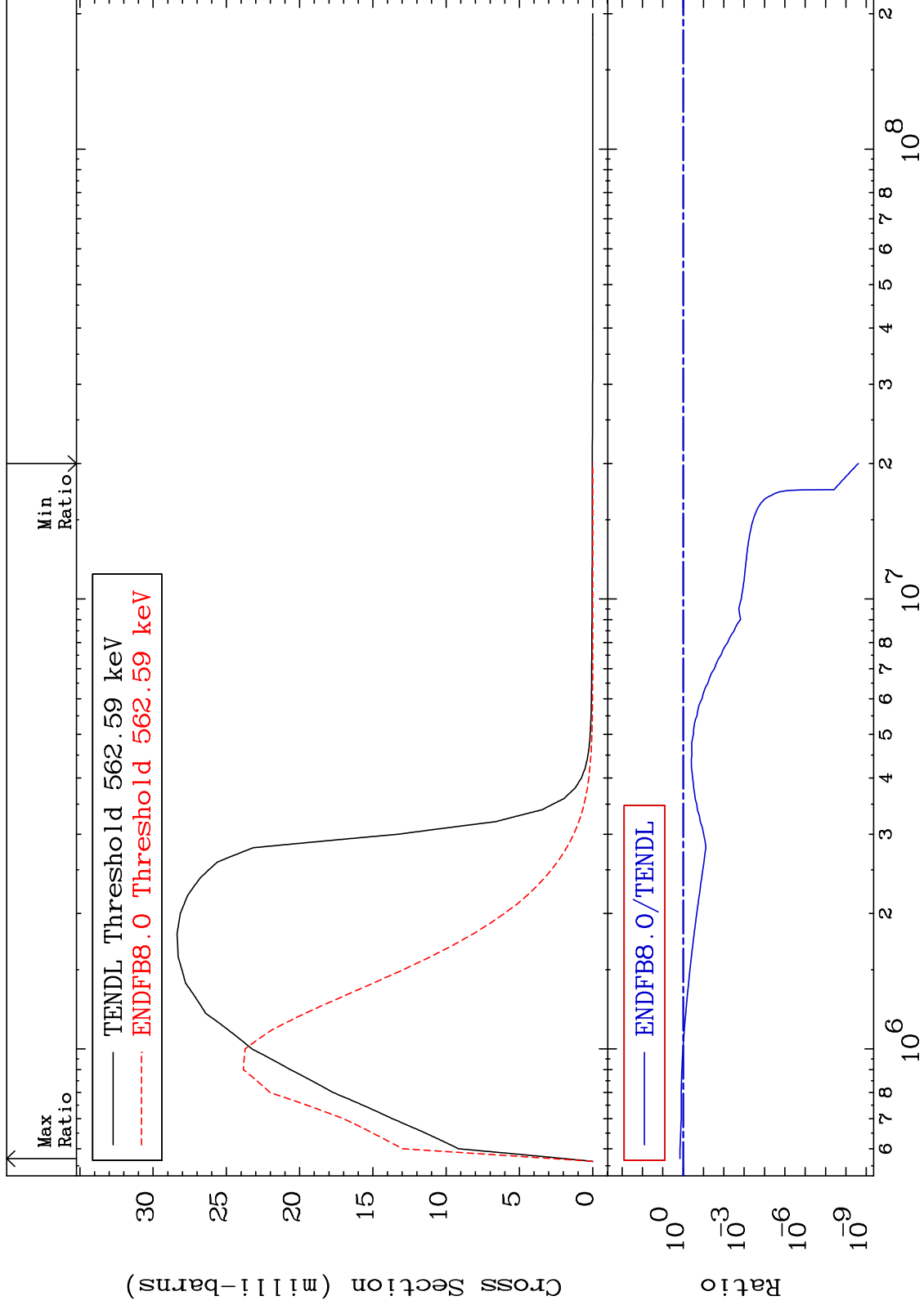
72-Hf-177
-100.0 To 0.387 %



MAT 7234

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

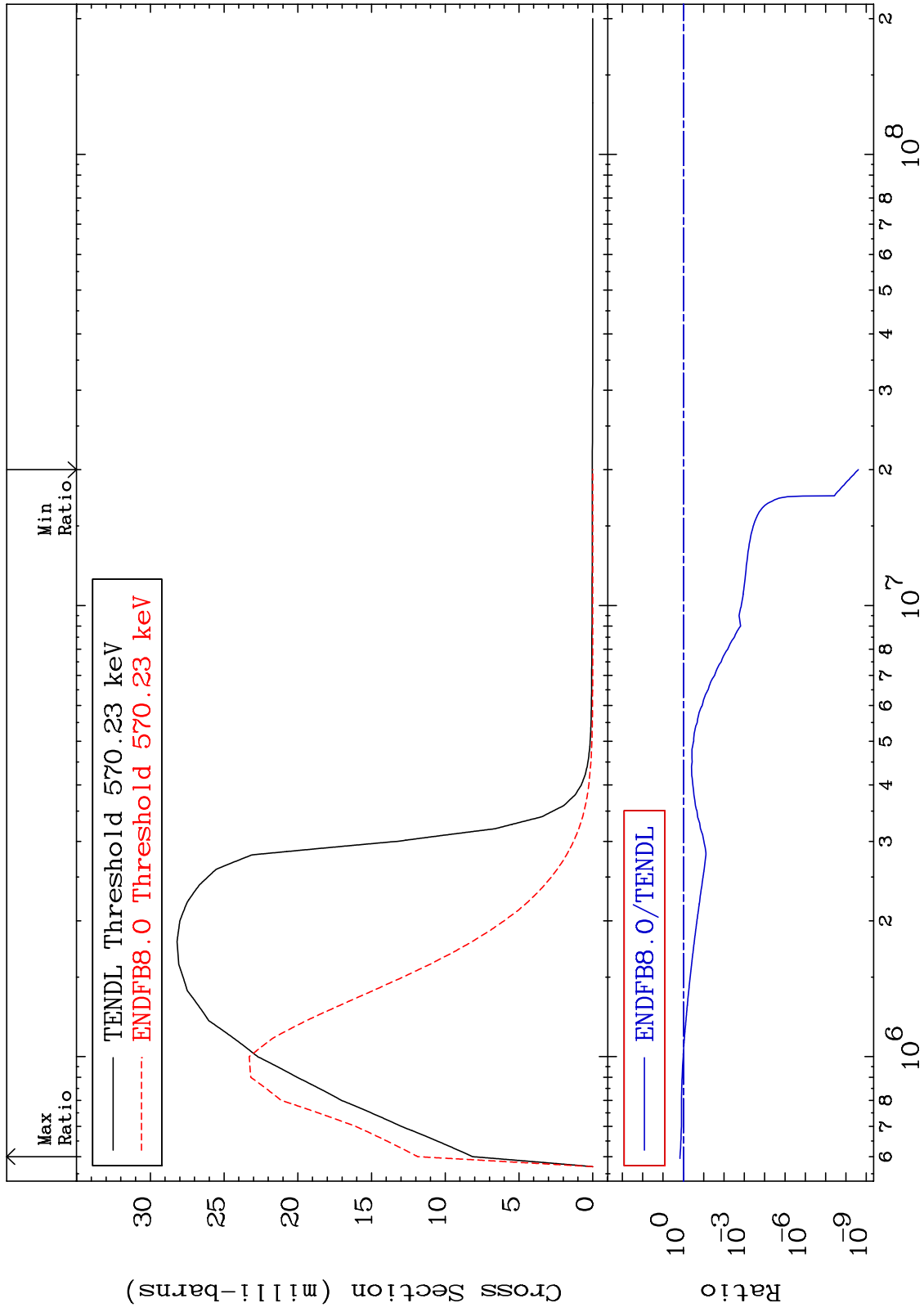
72-Hf-177
-100.0 To 41.98 %



MAT 7234

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

72-Hf-177
-100.0 To 45.82 %

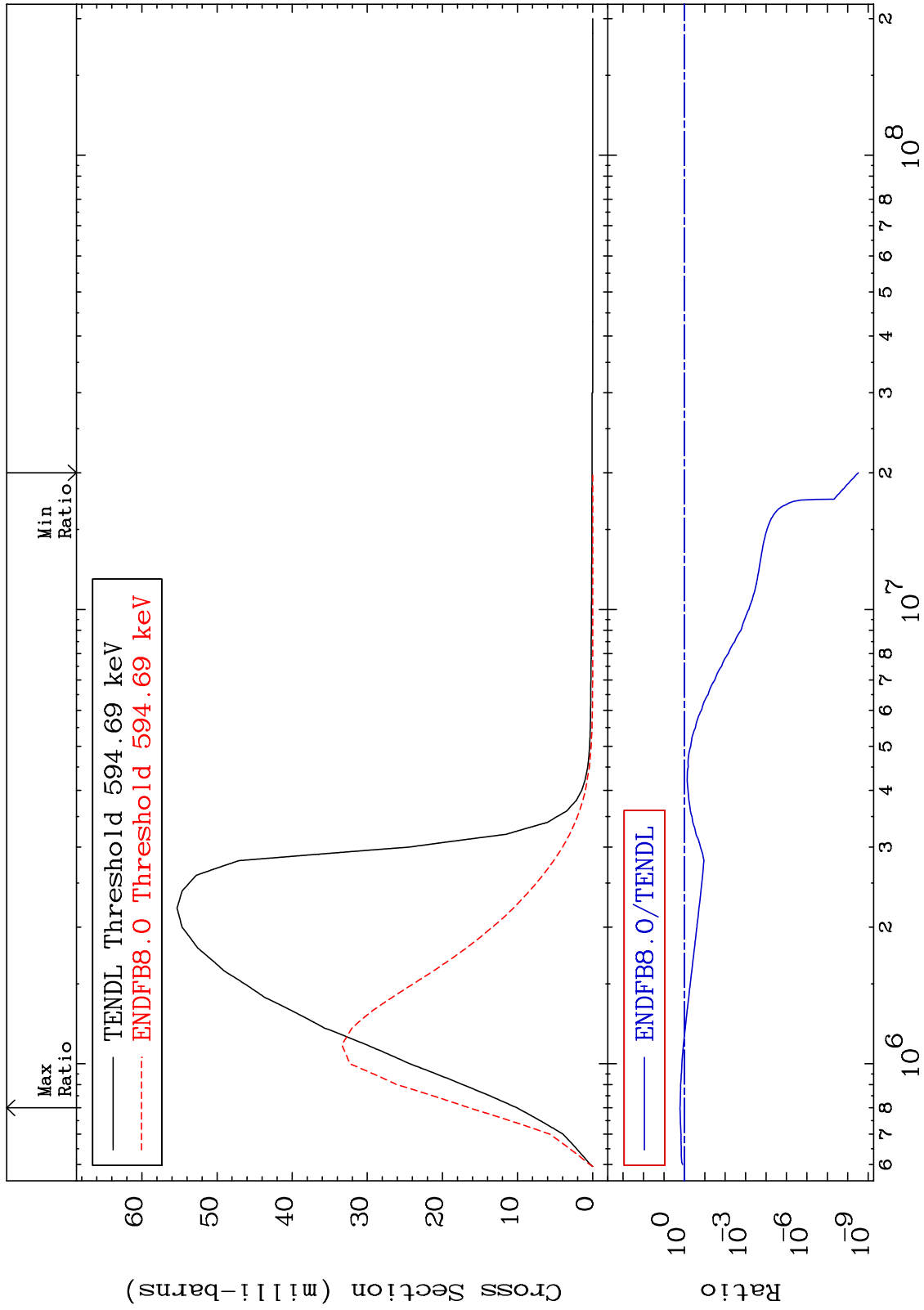


19

Incident Energy (eV)

72-Hf-177

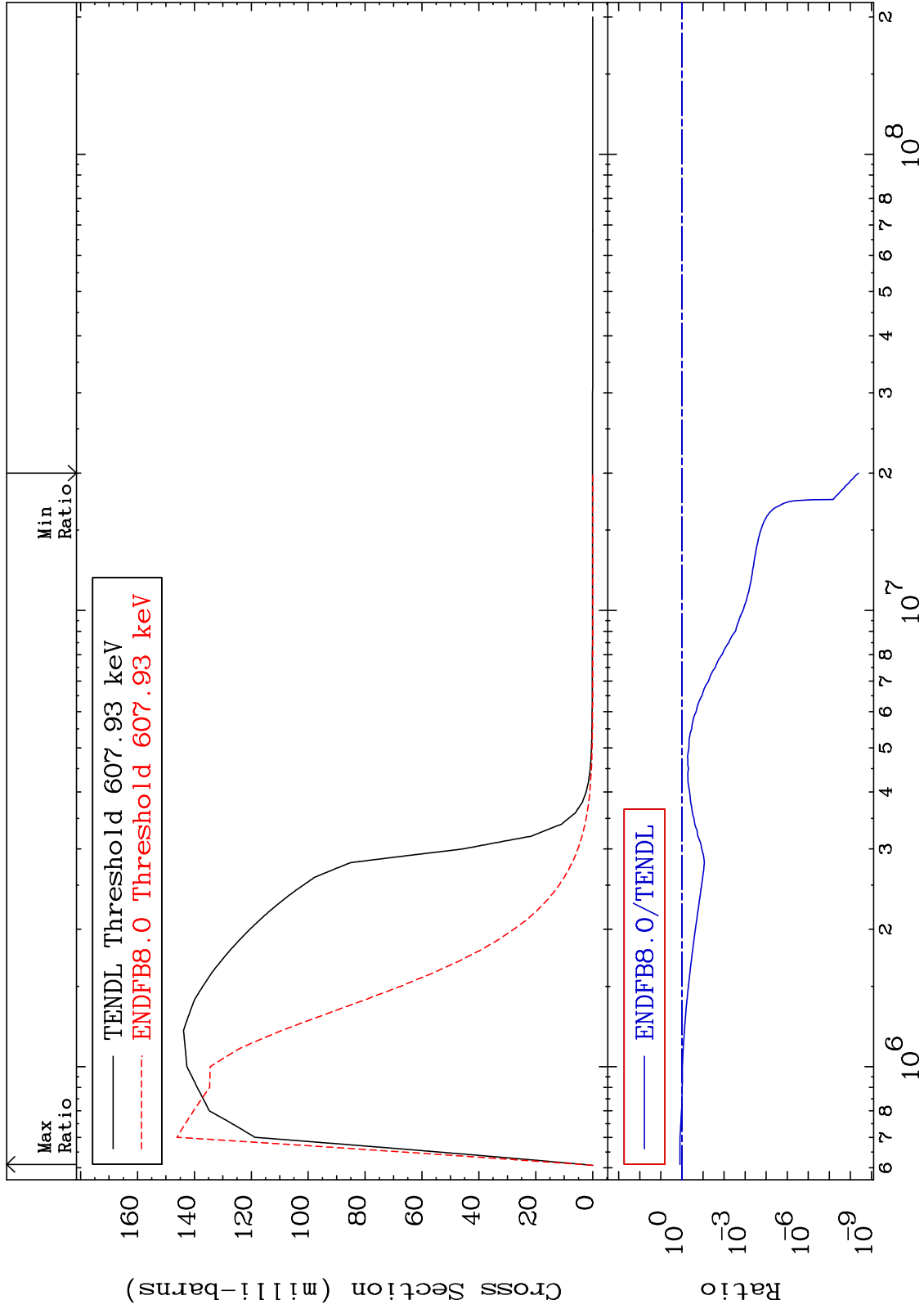
MAT 7234 MT= 63 (n,n') Level Cross Section -100.0 To 62.93 % 72-Hf-177



MAT 7234

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

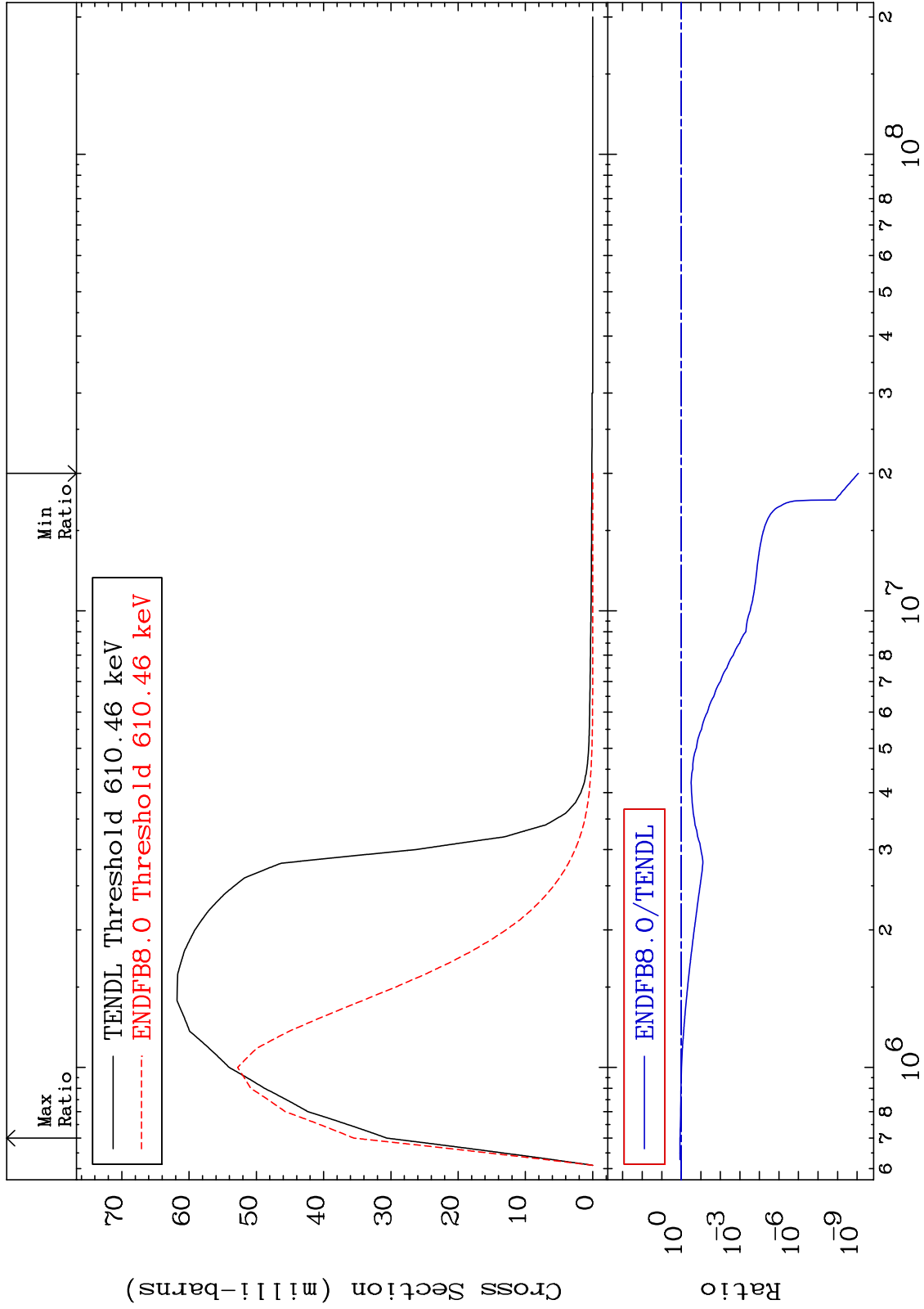
72-Hf-177
-100.0 To 23.01 %



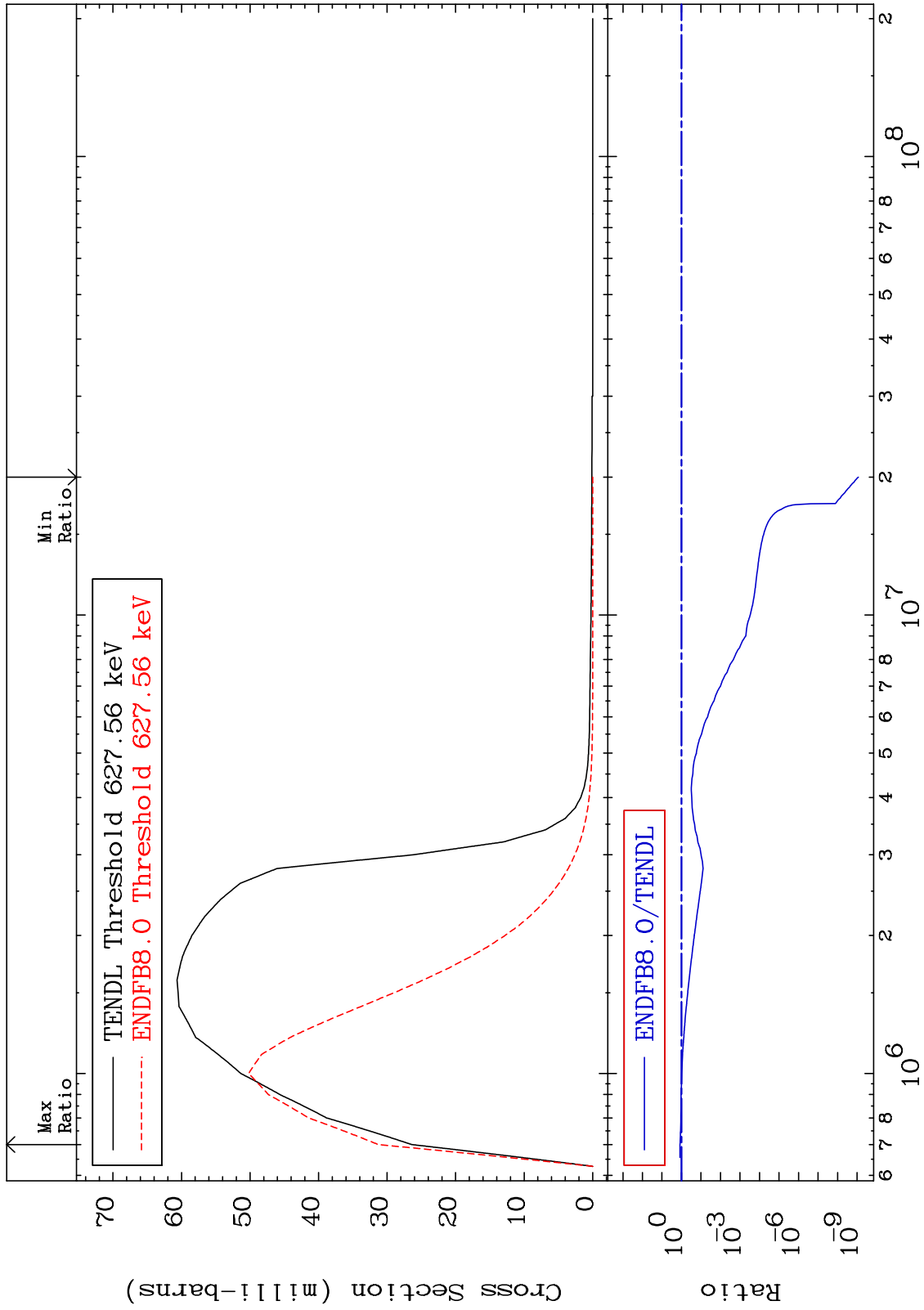
MAT 7234

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

72-Hf-177
-100.0 To 16.09 %



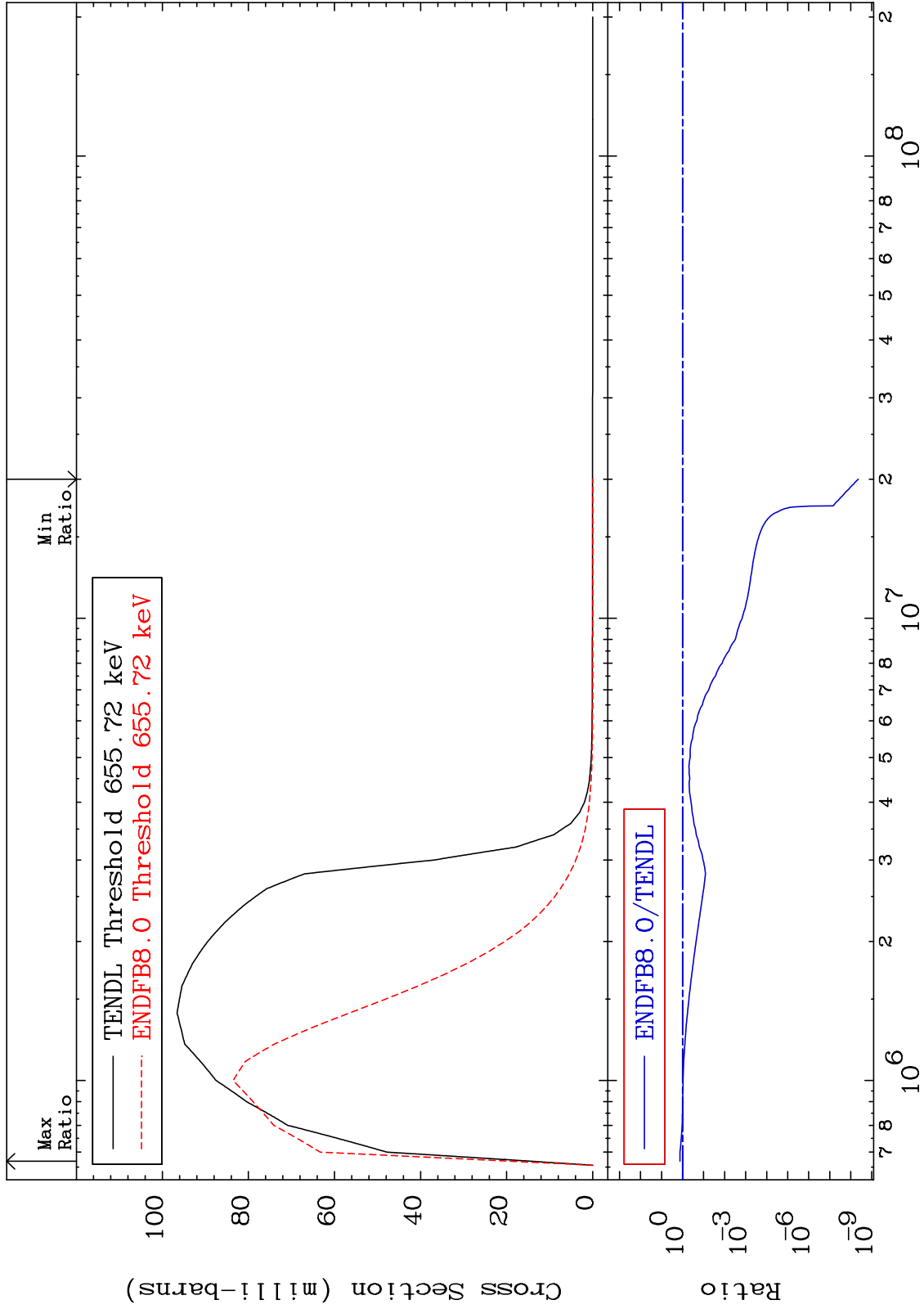
MAT 7234 MT= 66 (n,n') Level Cross Section -100.0 To 18.48 % 72-Hf-177



MAT 7234

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

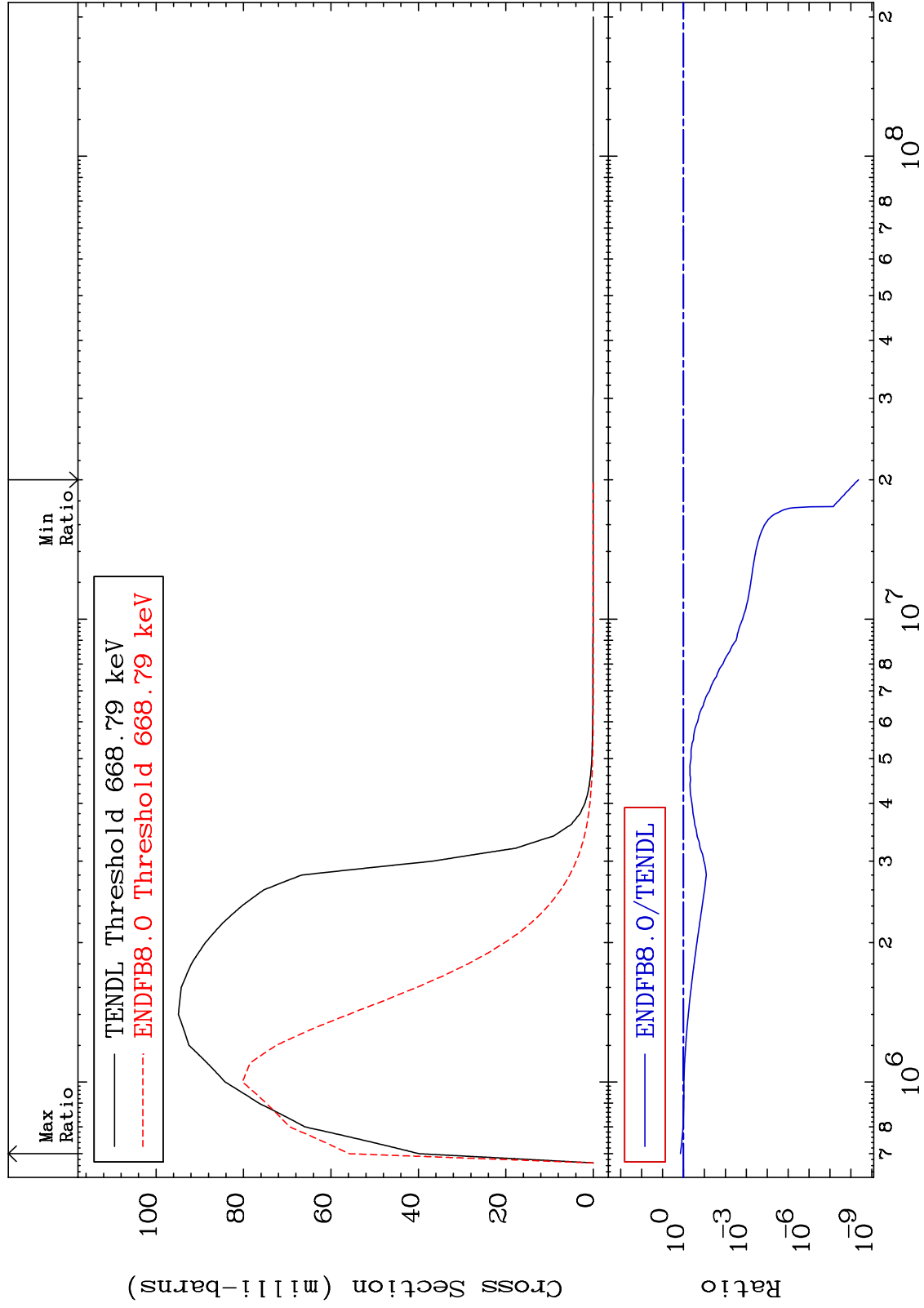
72-Hf-177
-100.0 To 32.50 %



MAT 7234

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

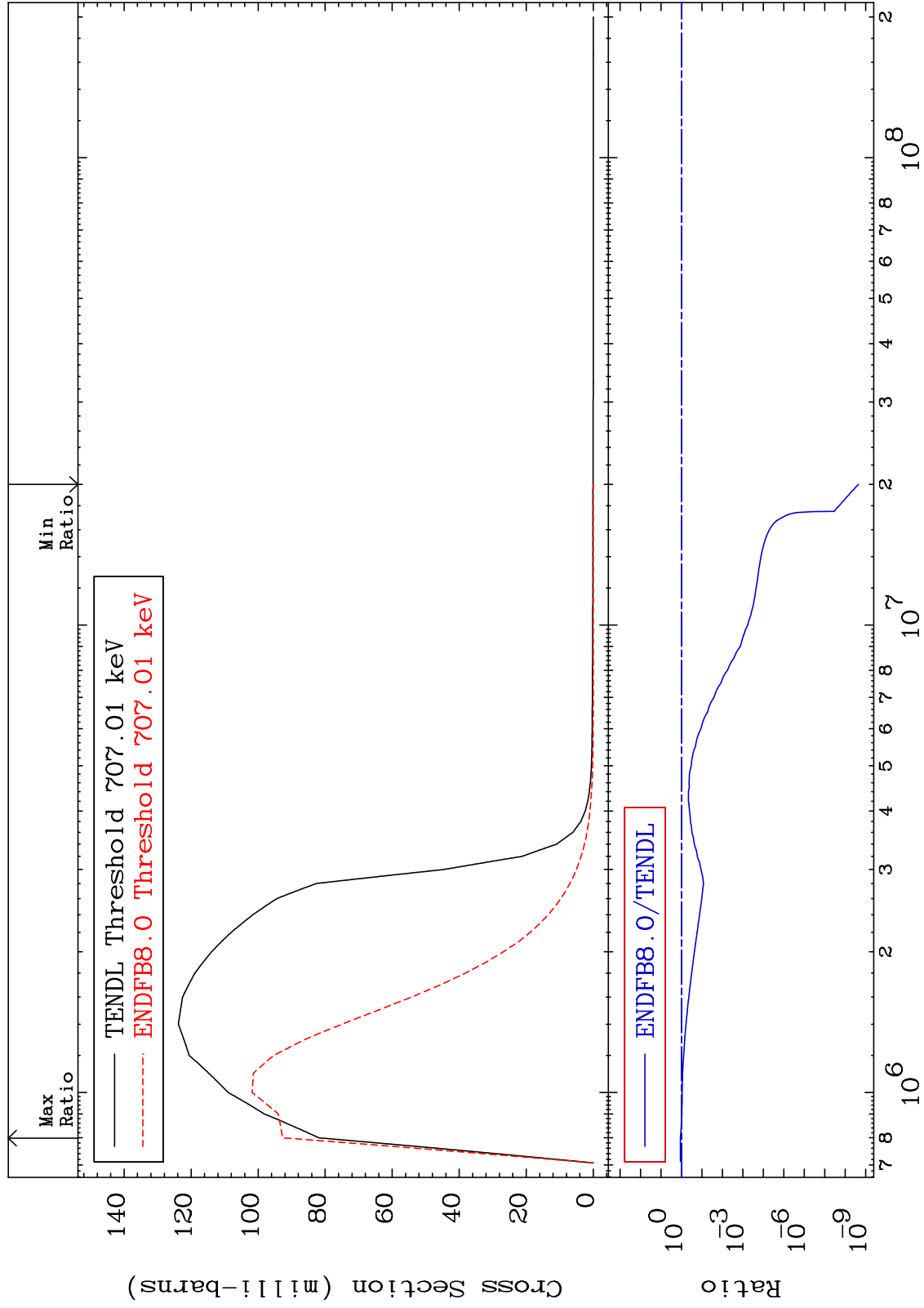
⁷²Hf-177
-100.0 To 40.13 %



MAT 7234

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

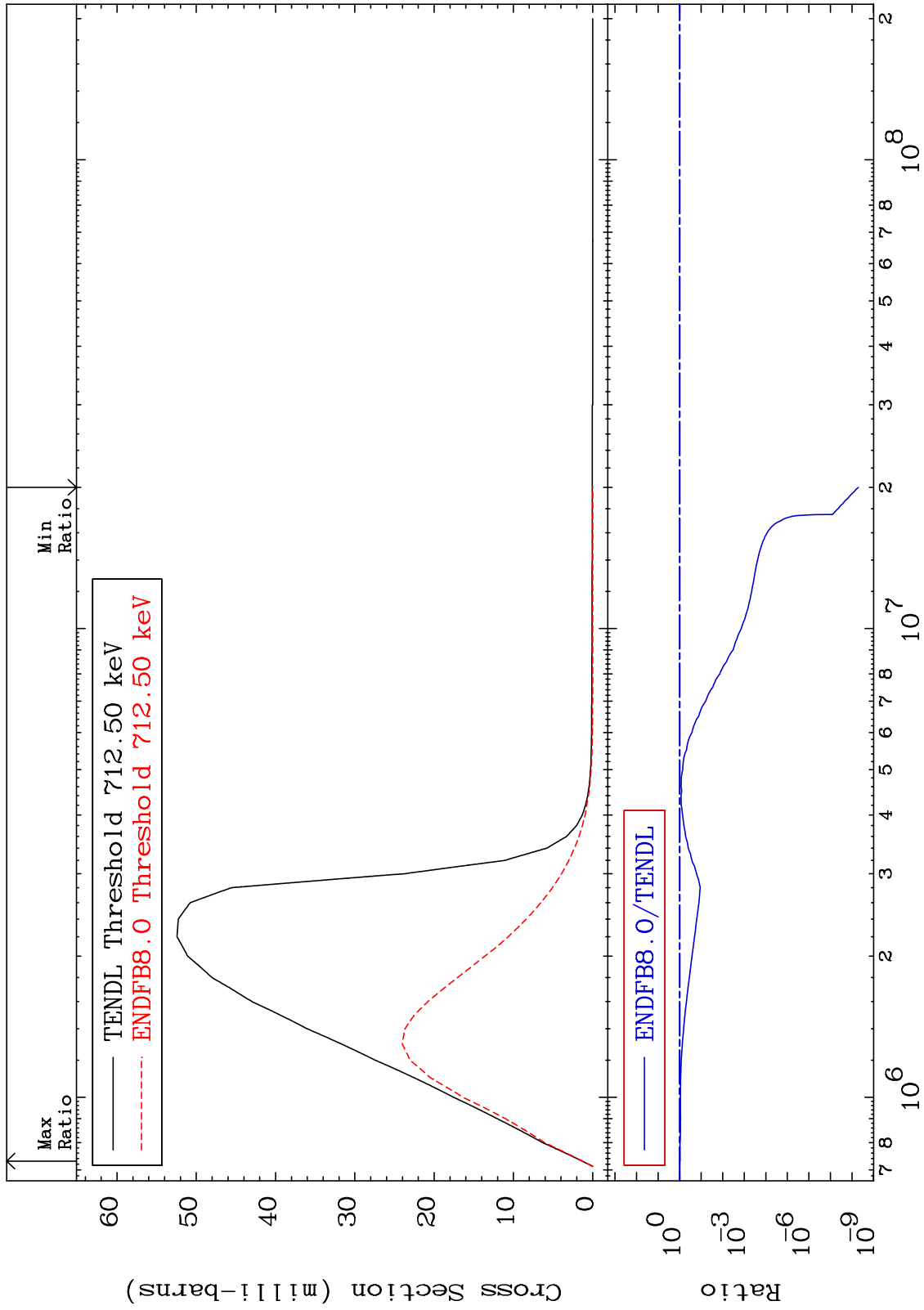
72-Hf-177
-100.0 To 13.17 %



MAT 7234

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

72-Hf-177
-100.0 To -3.836%



27

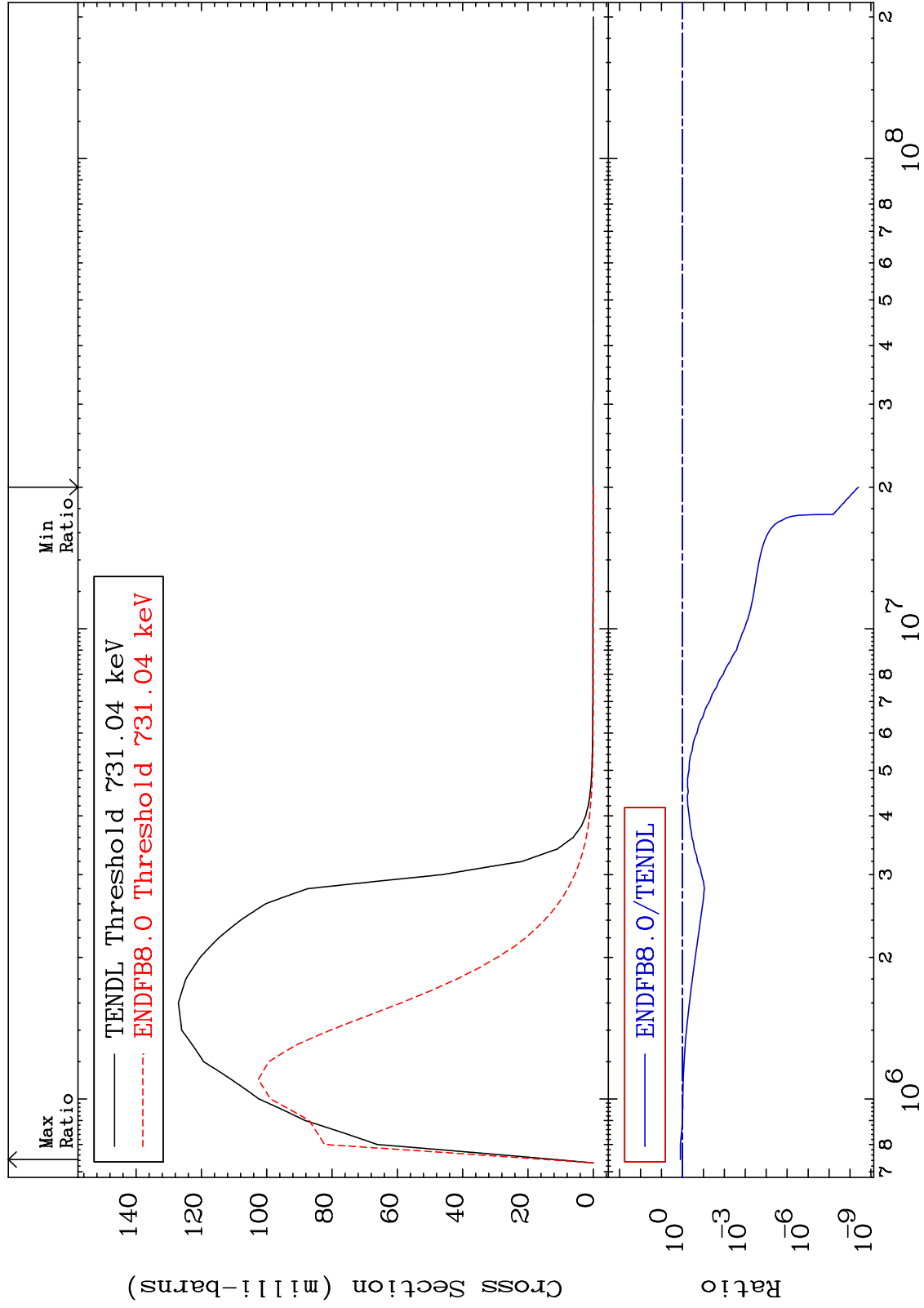
Incident Energy (eV)

72-Hf-177

MAT 7234

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

72-Hf-177
-100.0 To 24.39 %

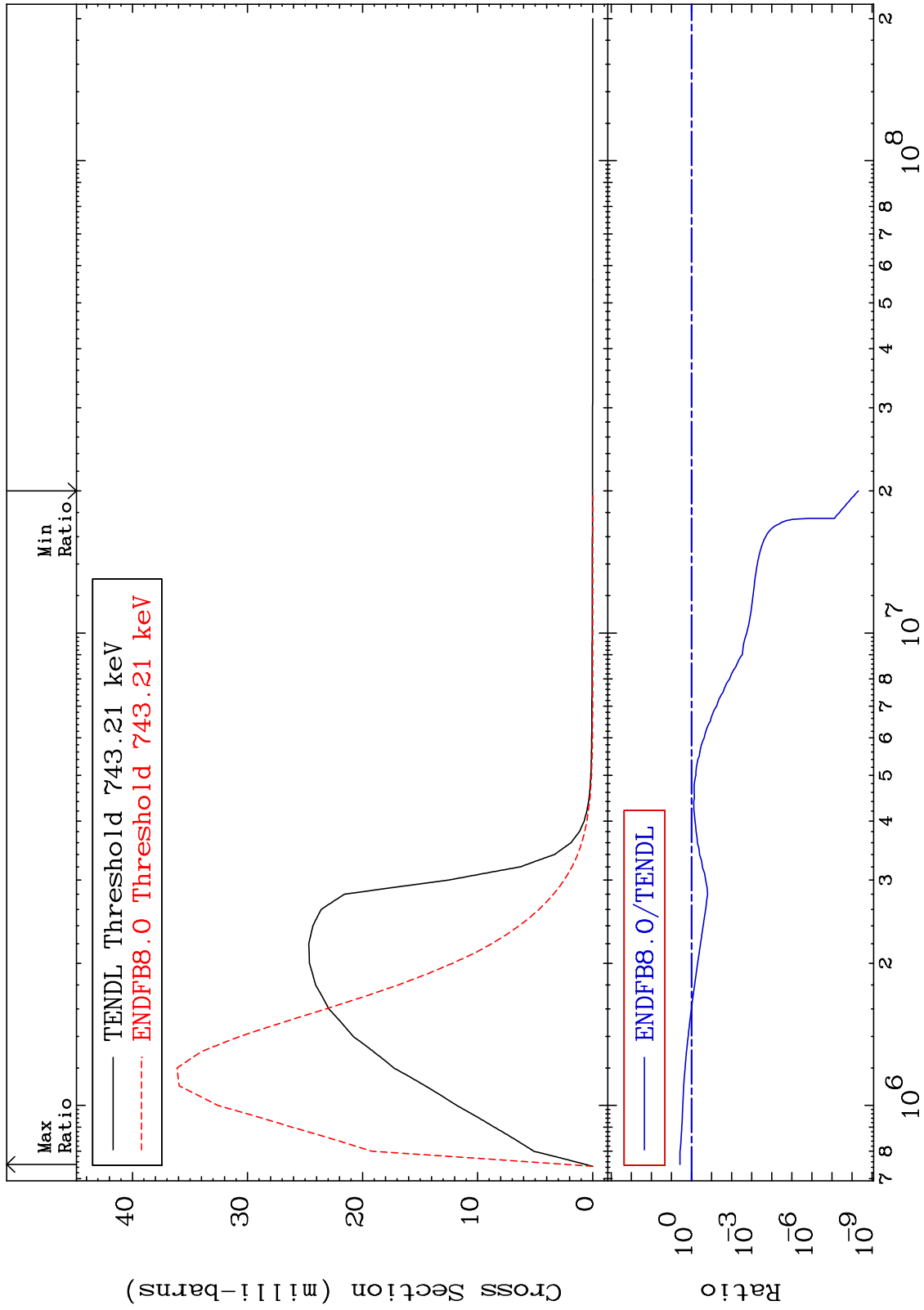


28

Incident Energy (eV)

72-Hf-177

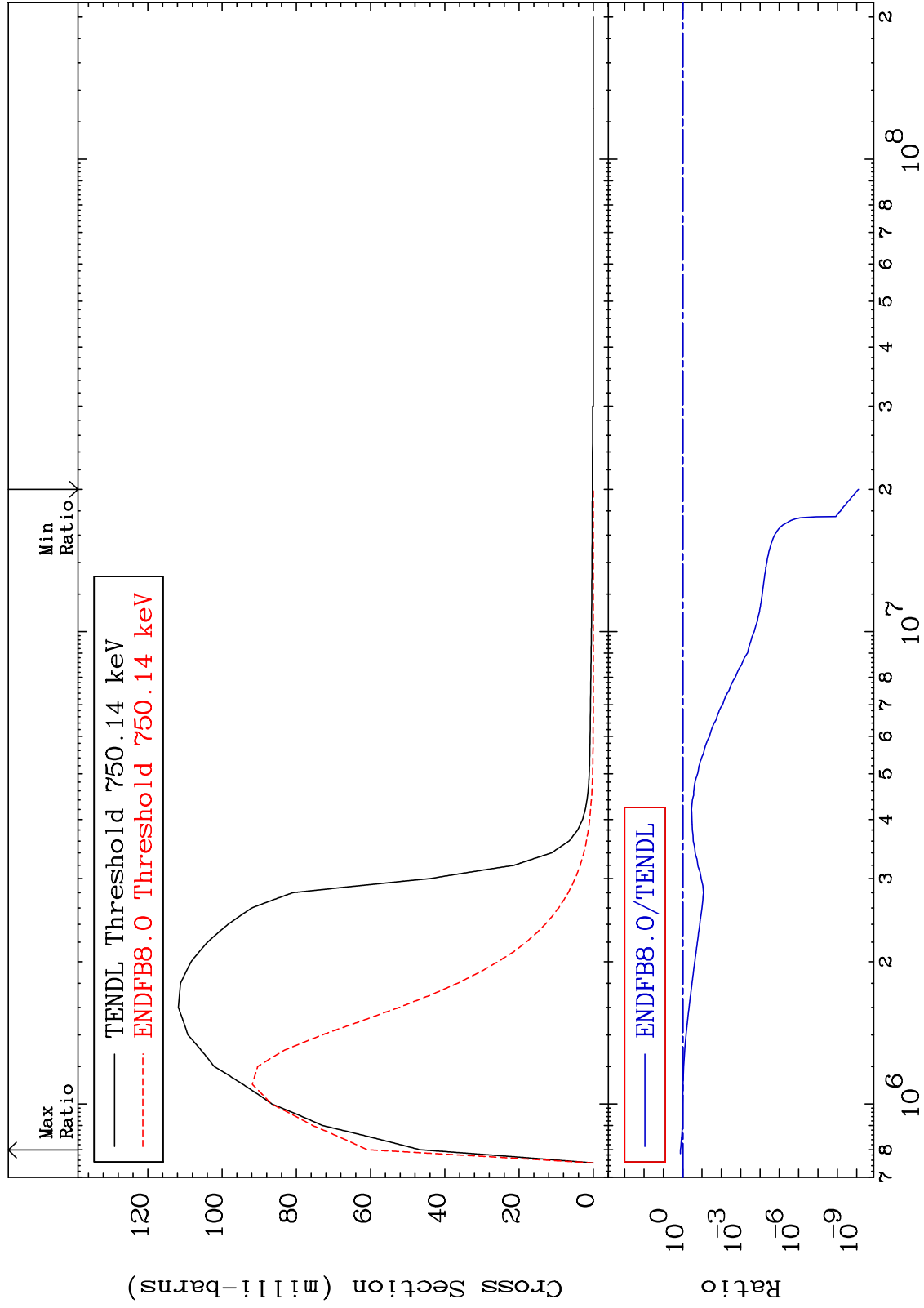
MAT 7234 MT= 72 (n,n') Level Cross Section -100.0 To 274.5 % 72-Hf-177



MAT 7234

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

72-Hf-177
-100.0 To 30.26 %

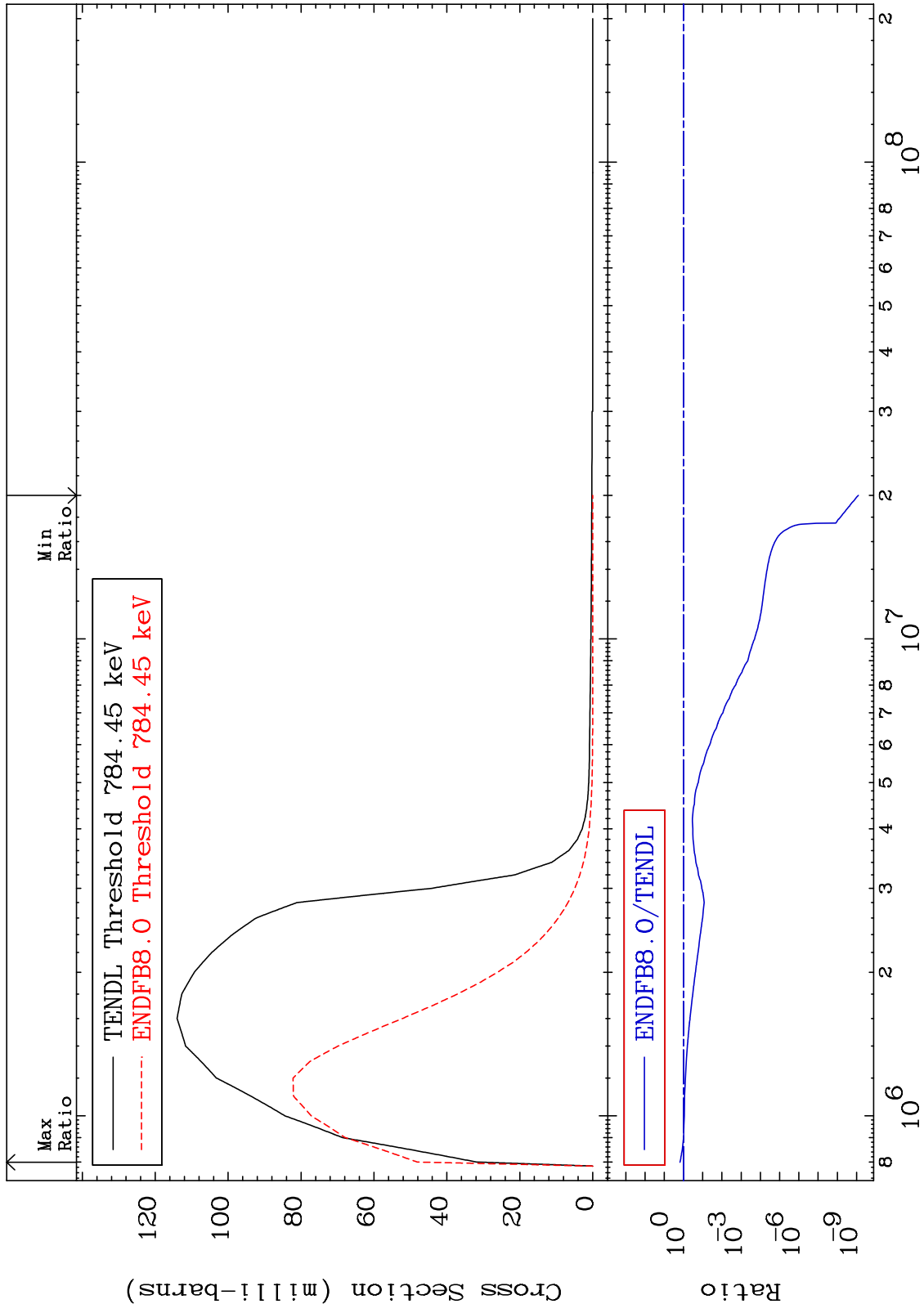


30

Incident Energy (eV)

72-Hf-177

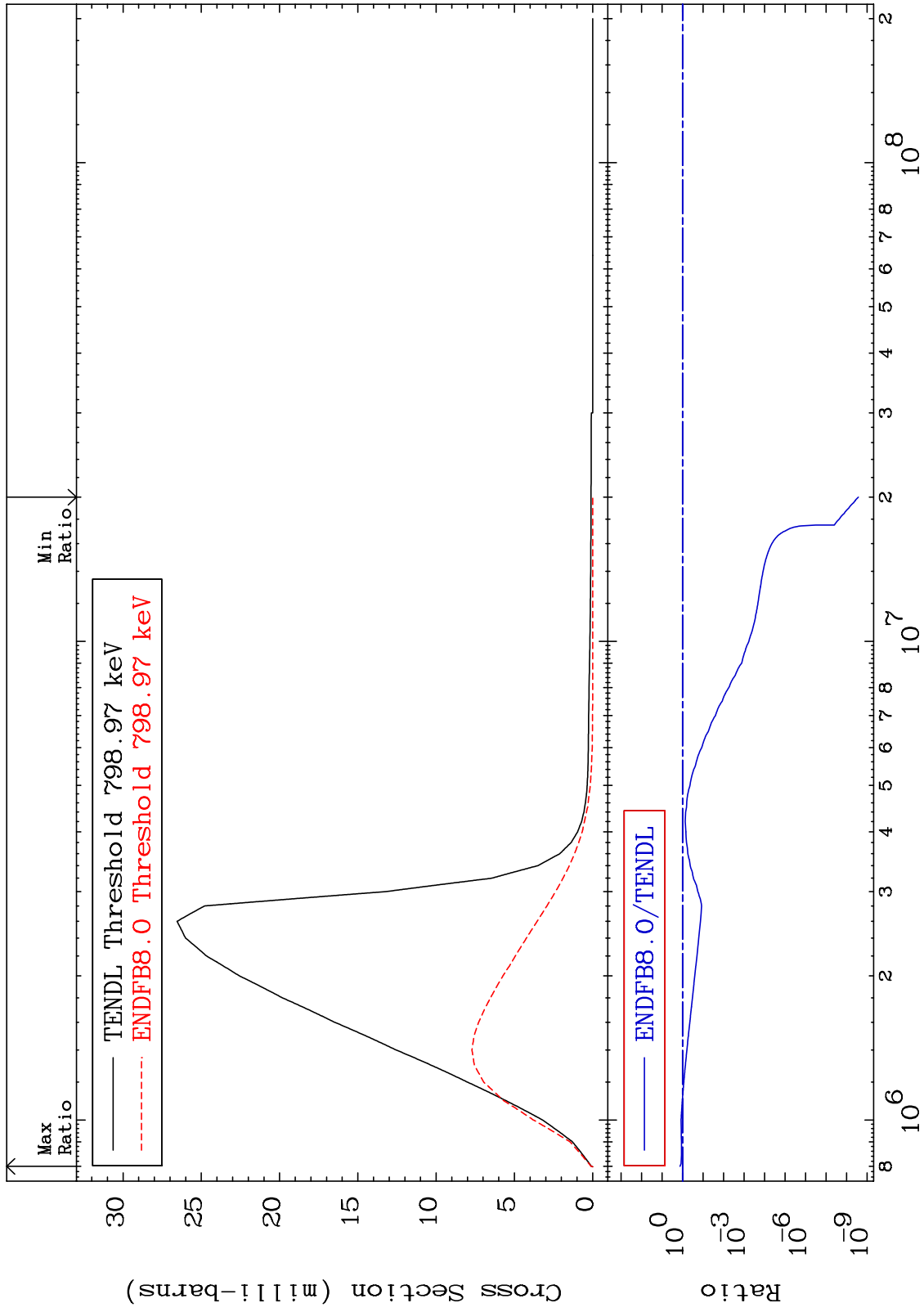
MAT 7234 MT= 74 (n,n') Level
Cross Section 72-Hf-177
-100.0 To 51.02 %



MAT 7234

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

72-Hf-177
-100.0 To 33.14 %

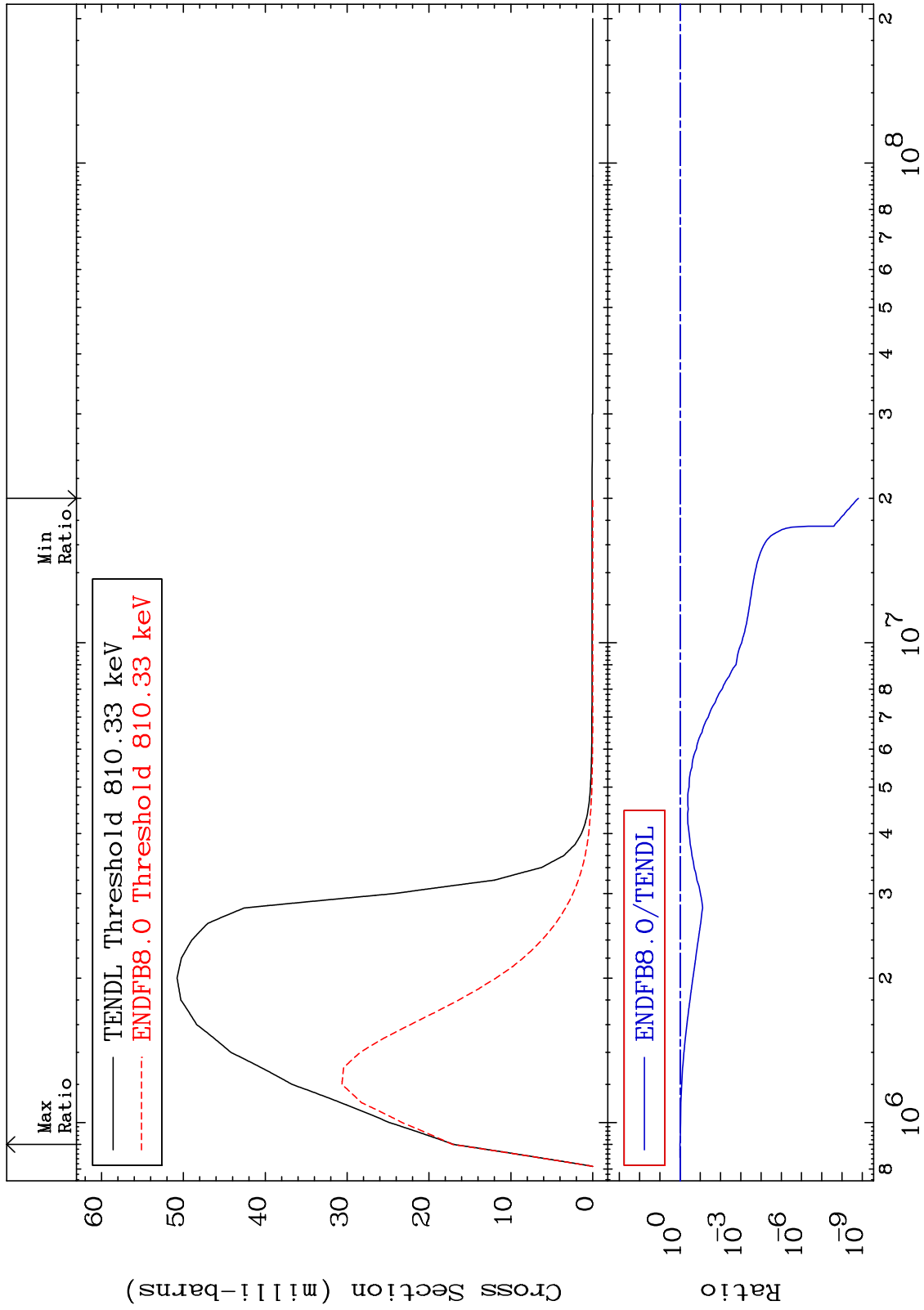


32

Incident Energy (eV)

72-Hf-177

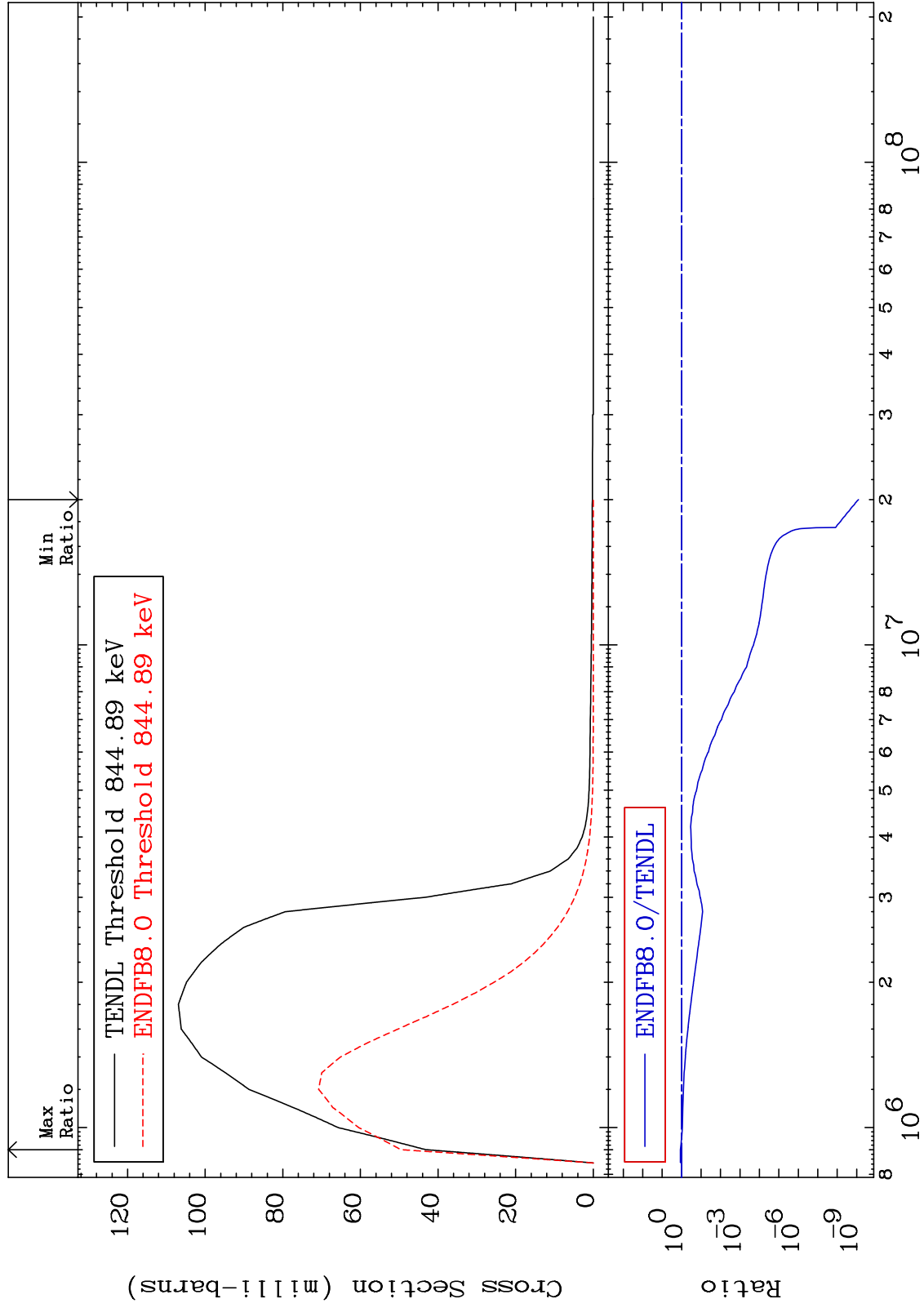
MAT 7234 MT= 76 (n,n') Level Cross Section 72-Hf-177
 -100.0 To 0.898 %



MAT 7234

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

72-Hf-177
-100.0 To 14.78 %



34

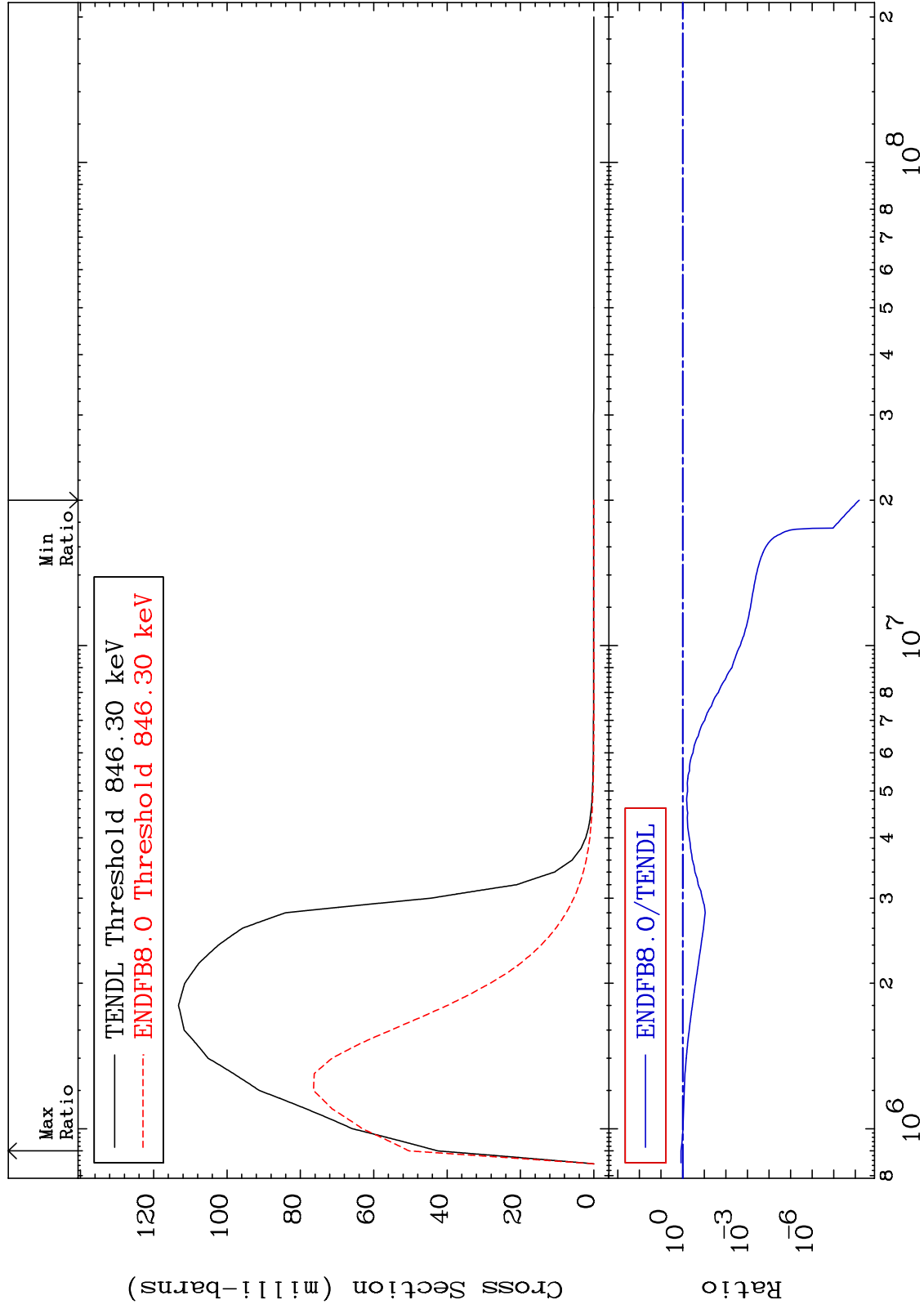
Incident Energy (eV)

72-Hf-177

MAT 7234

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

72-Hf-177
-100.0 To 18.32 %



35

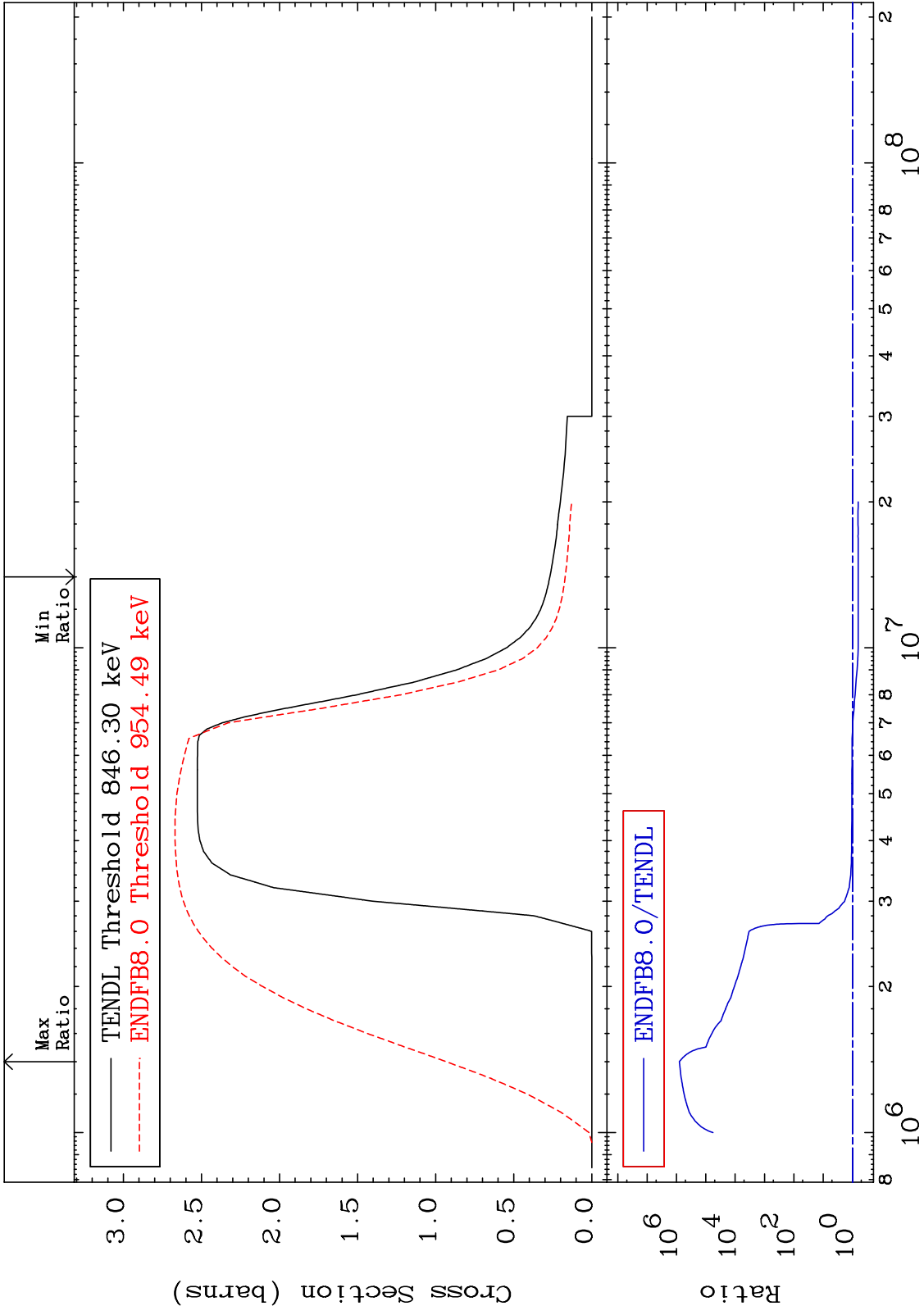
Incident Energy (eV)

72-Hf-177

MAT 7234

(n, n') Continuum
Cross Section

⁷²Hf-177
-36.45 To 9999. %



36

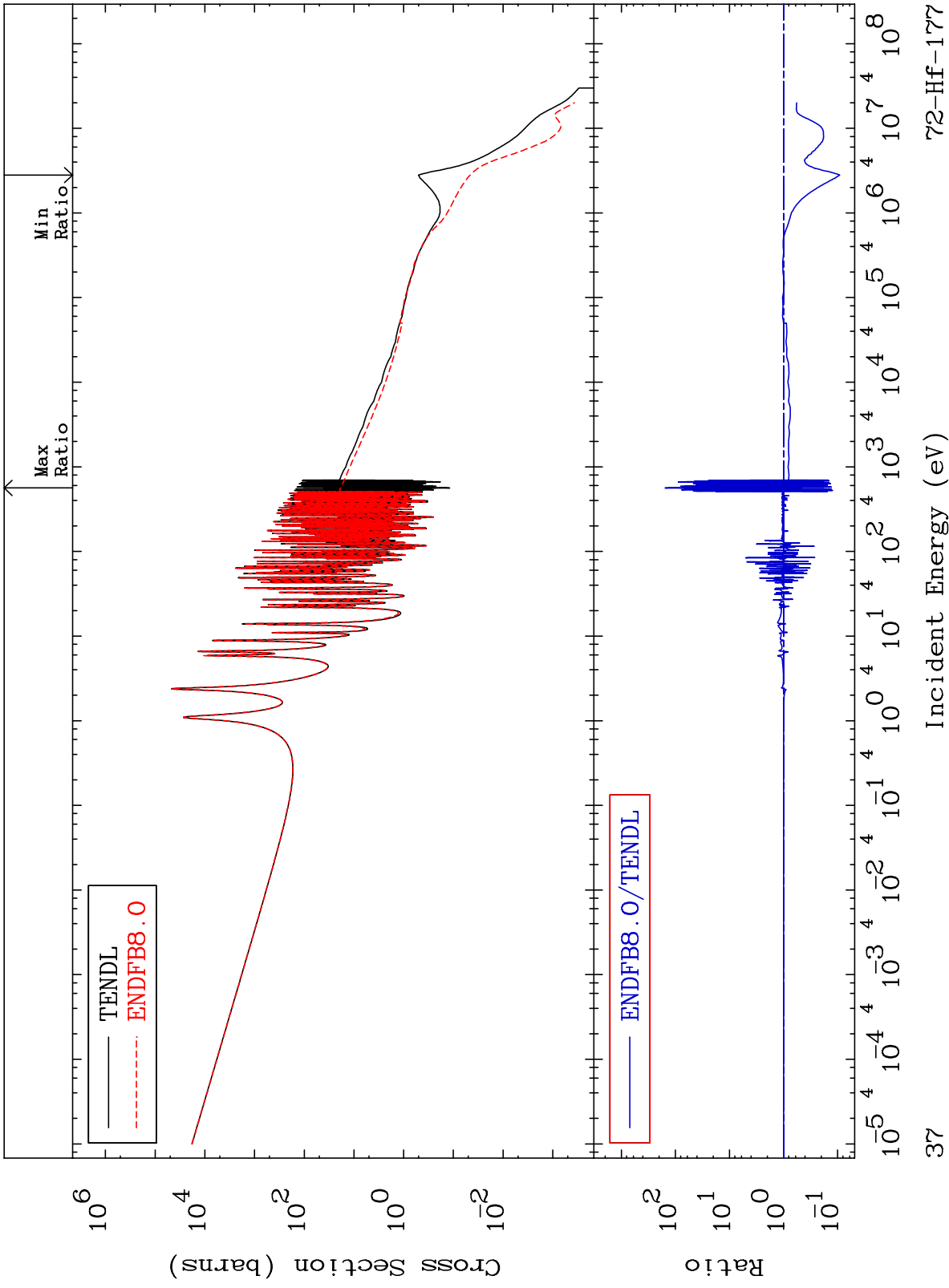
Incident Energy (eV)

⁷²Hf-177

MAT 7234

(n, γ)
Cross Section

72-Hf-177
-90.85 To 9999. %



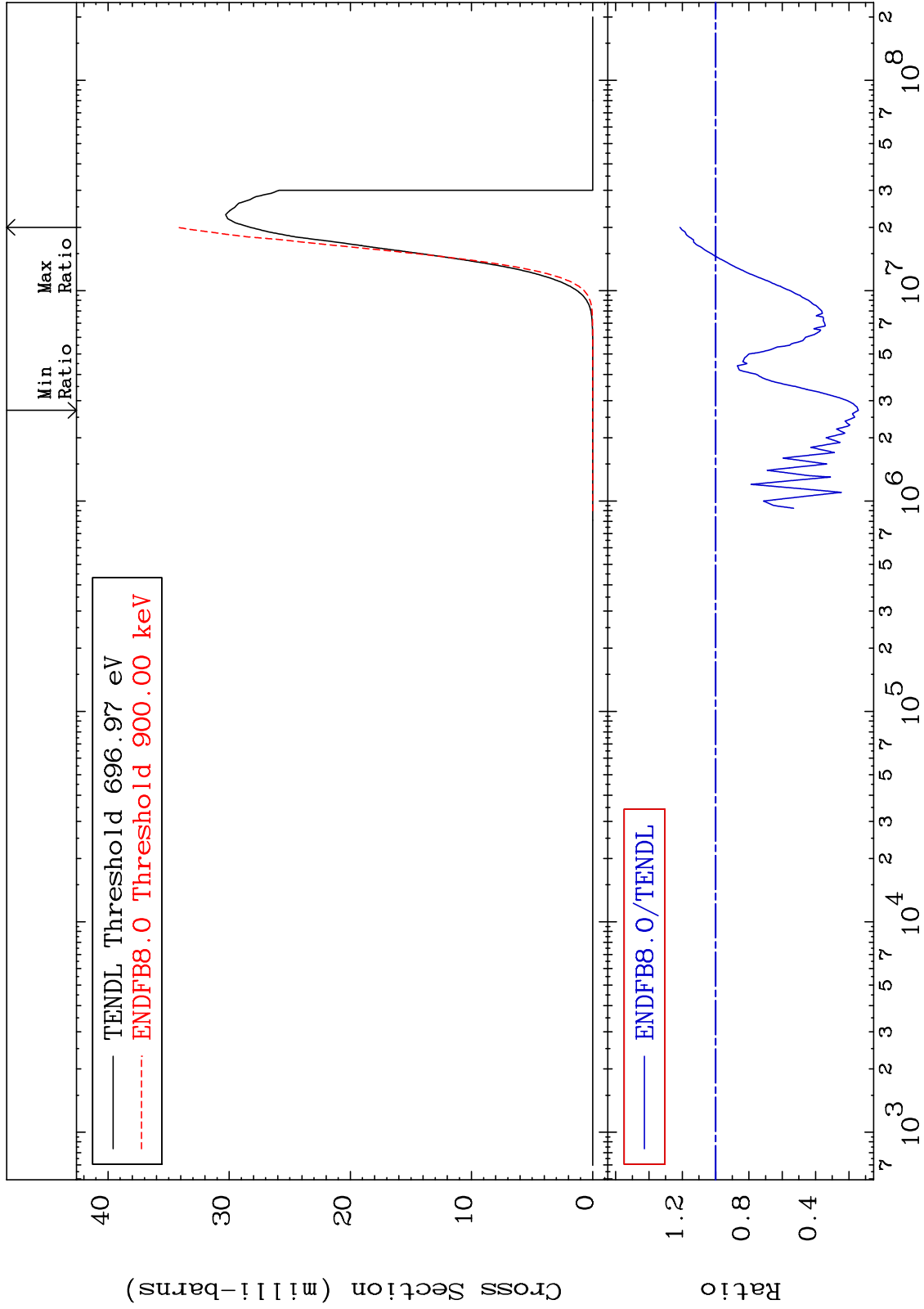
MAT 7234

(n, p)

72-Hf-177

Cross Section

-85.72 To 21.37 %



38

Incident Energy (eV)

72-Hf-177

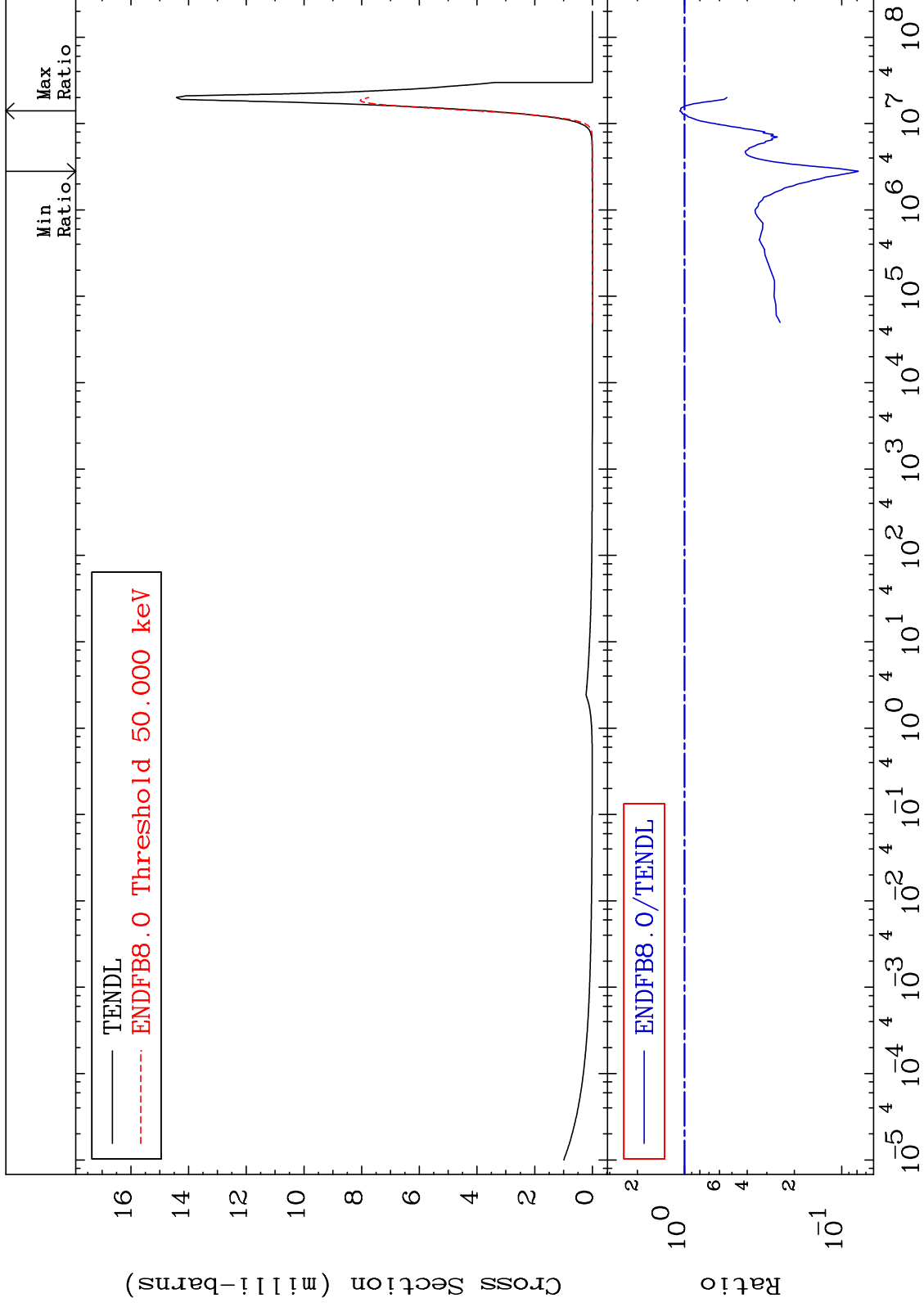
MAT 7234

(n, α)

72-Hf-177

Cross Section

-92.16 To 7.328 %



39

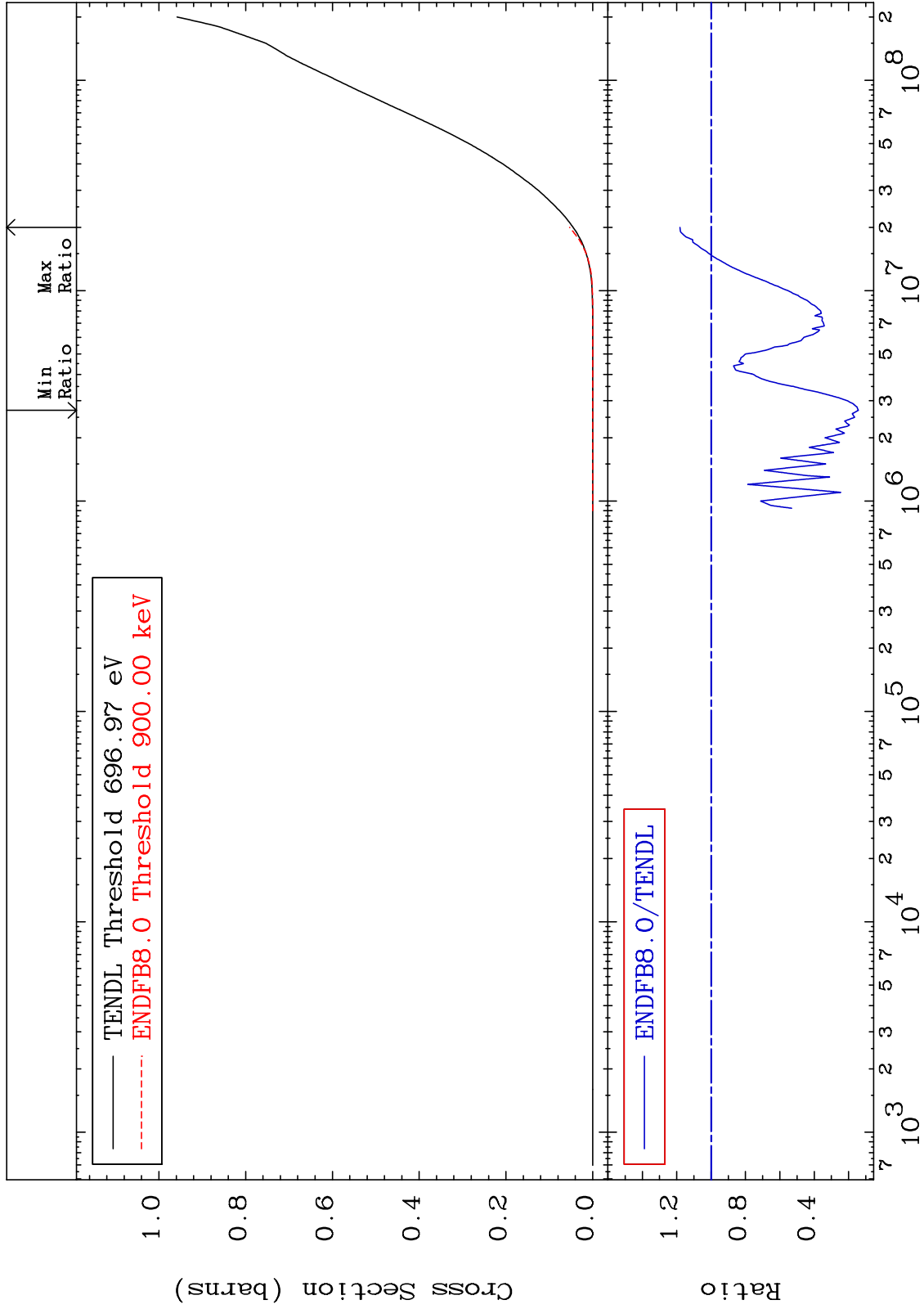
Incident Energy (eV)

72-Hf-177

MAT 7234

Hydrogen Production
Cross Section

72-Hf-177
-85.72 To 18.09 %



Incident Energy (eV)

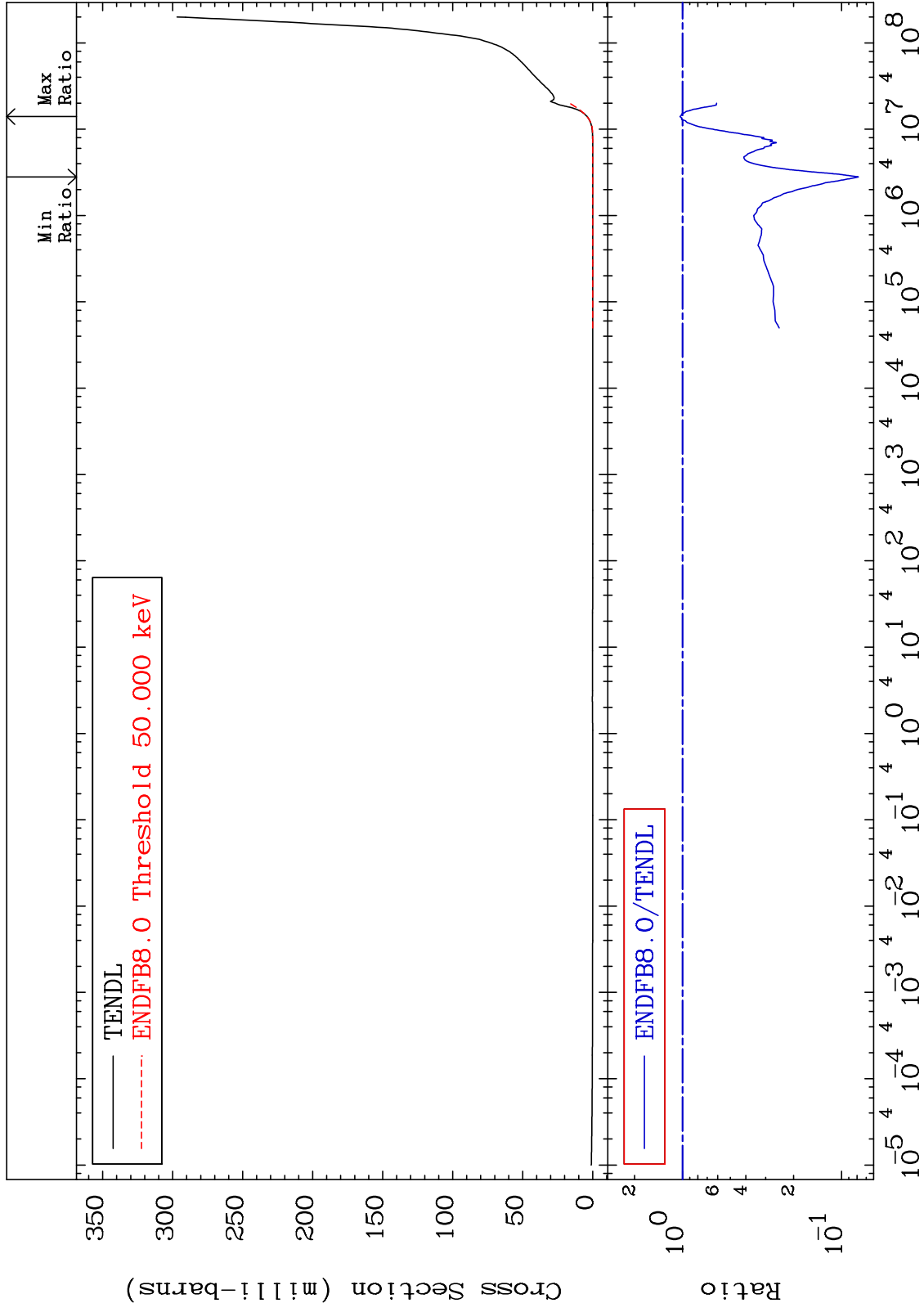
72-Hf-177

40

MAT 7234

He-4 Production
Cross Section

72-Hf-177
-92.16 To 3.599 %



41

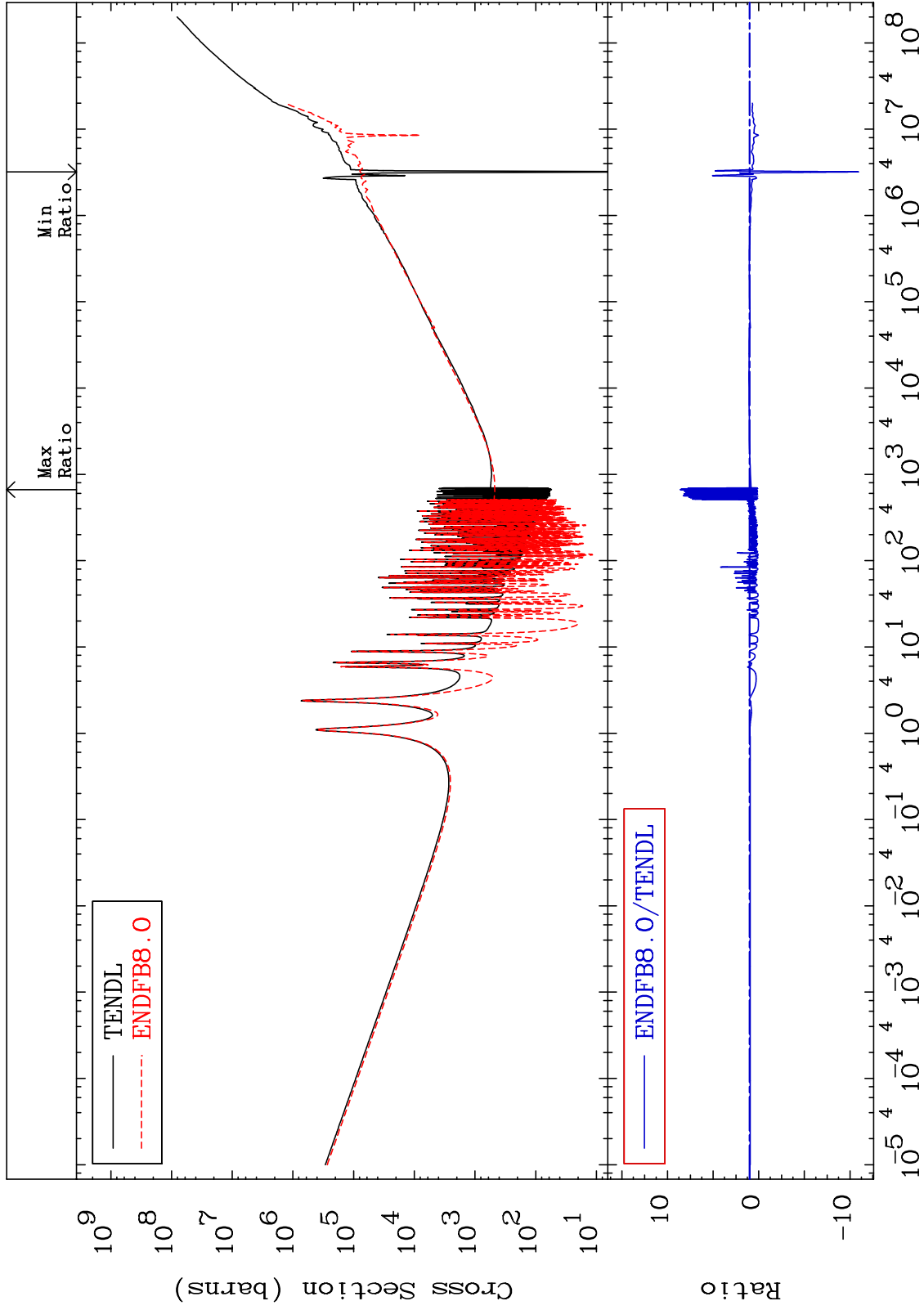
Incident Energy (eV)

72-Hf-177

MAT 7234

Kerma total (eV-barns)
Cross Section

72-Hf-177
-1192. To 763.0 %



42

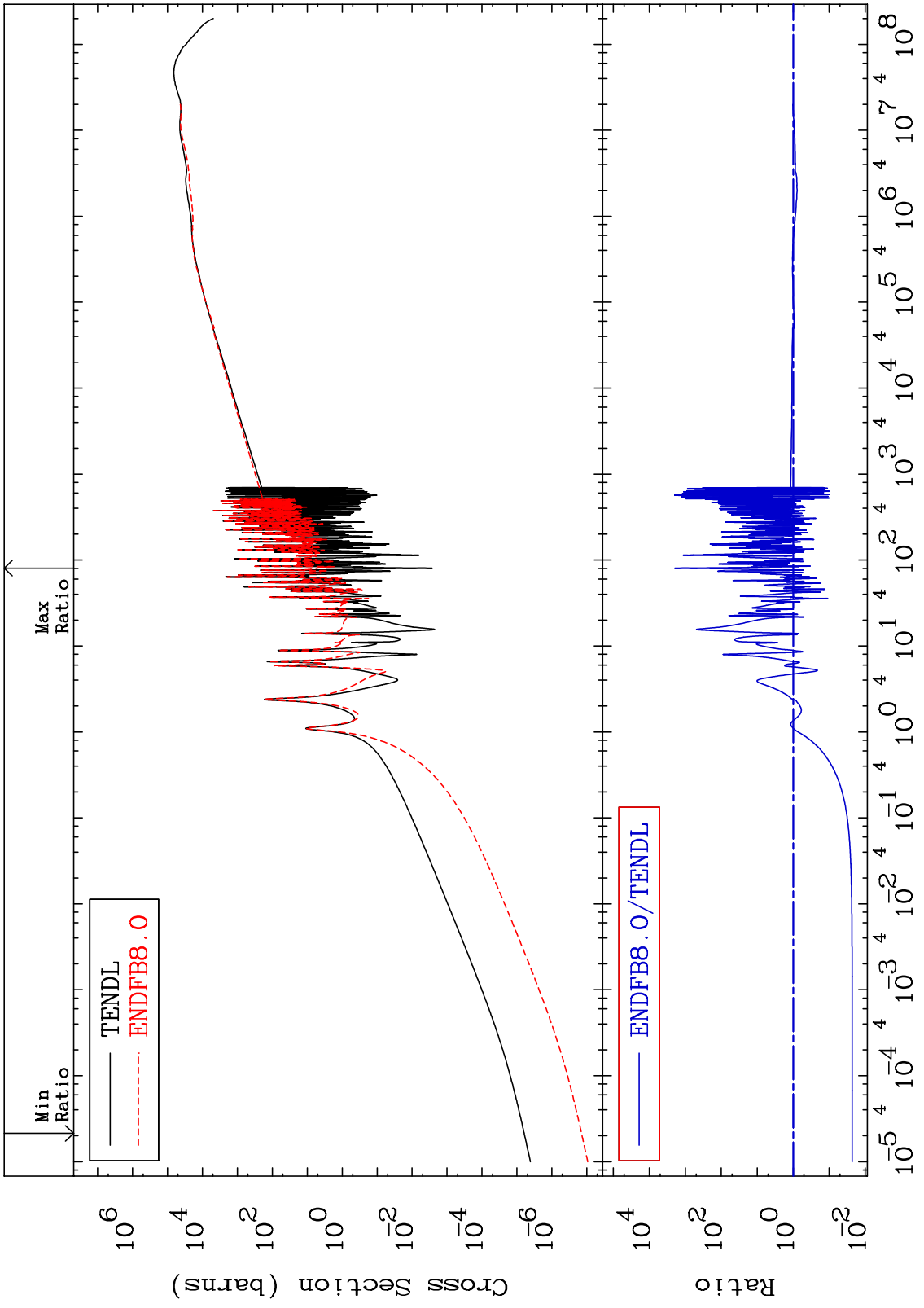
Incident Energy (eV)

72-Hf-177

MAT 7234

Kerma elastic
Cross Section

72-Hf-177
-97.71 To 9999. %



43

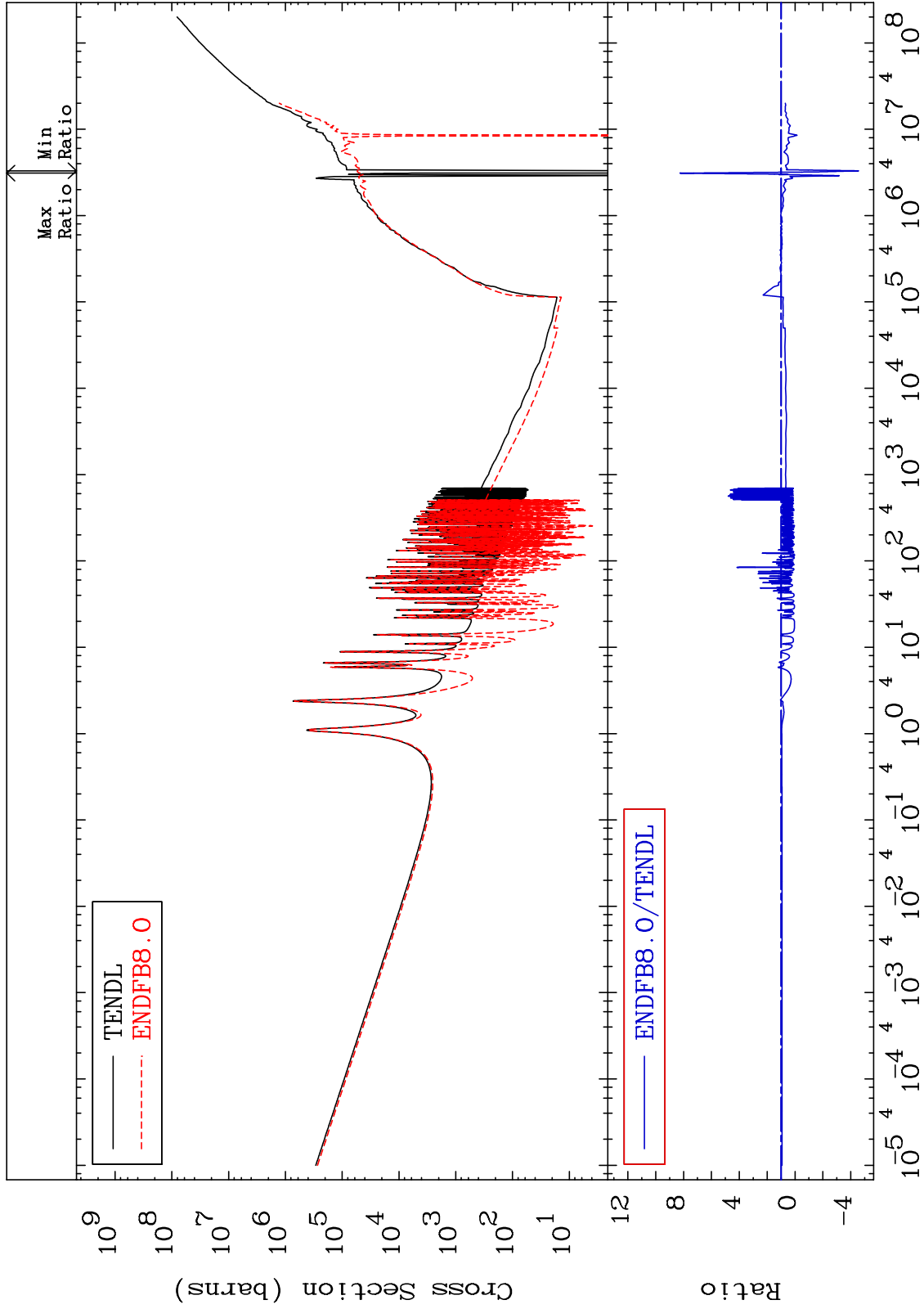
Incident Energy (eV)

72-Hf-177

MAT 7234

Kerma non-elastic (all but mt2)
Cross Section

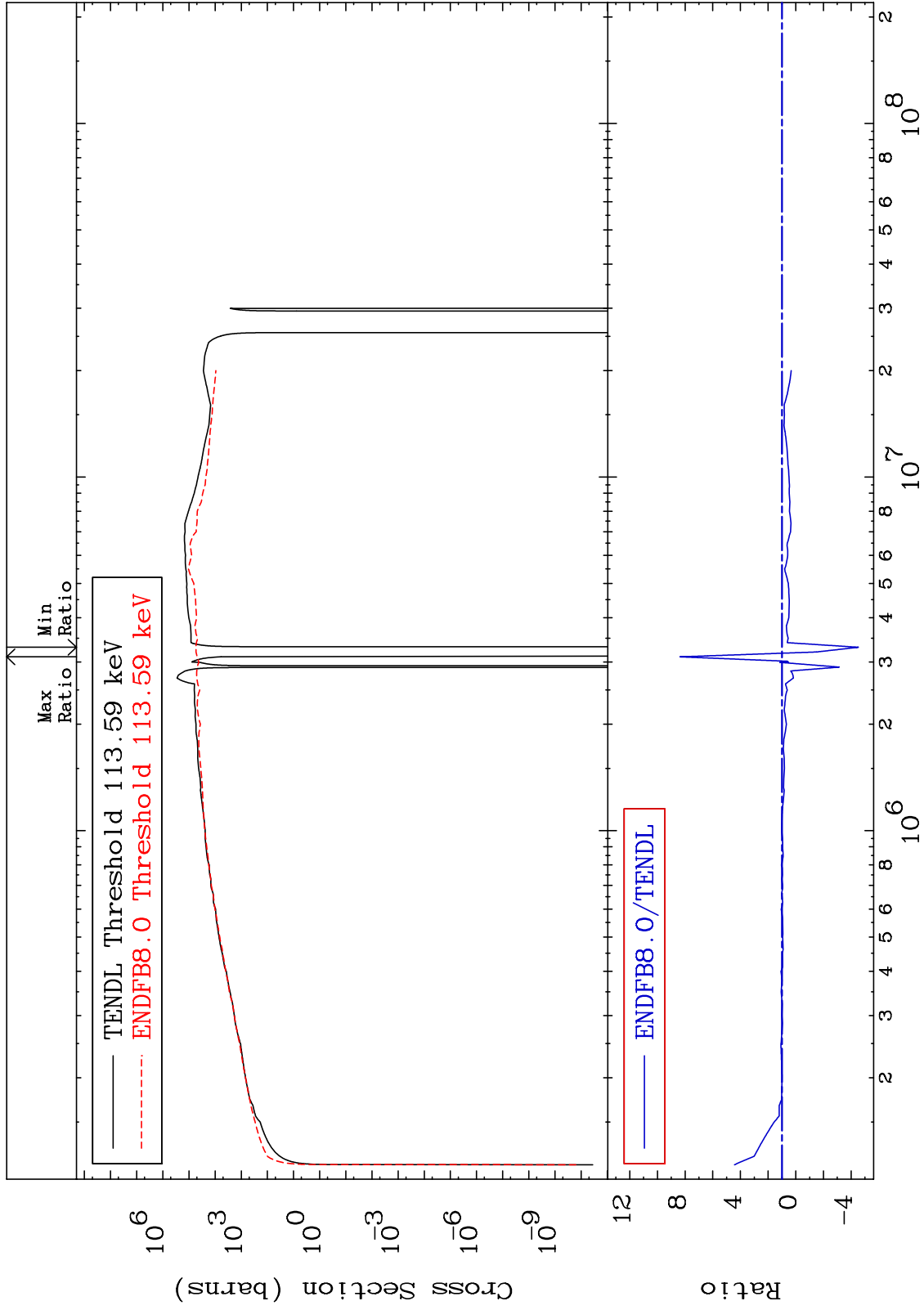
72-Hf-177
-555.0 To 725.5 %



MAT 7234

Kerma inelastic (mt51-91)
Cross Section

72-Hf-177
-552.5 To 736.7 %



45

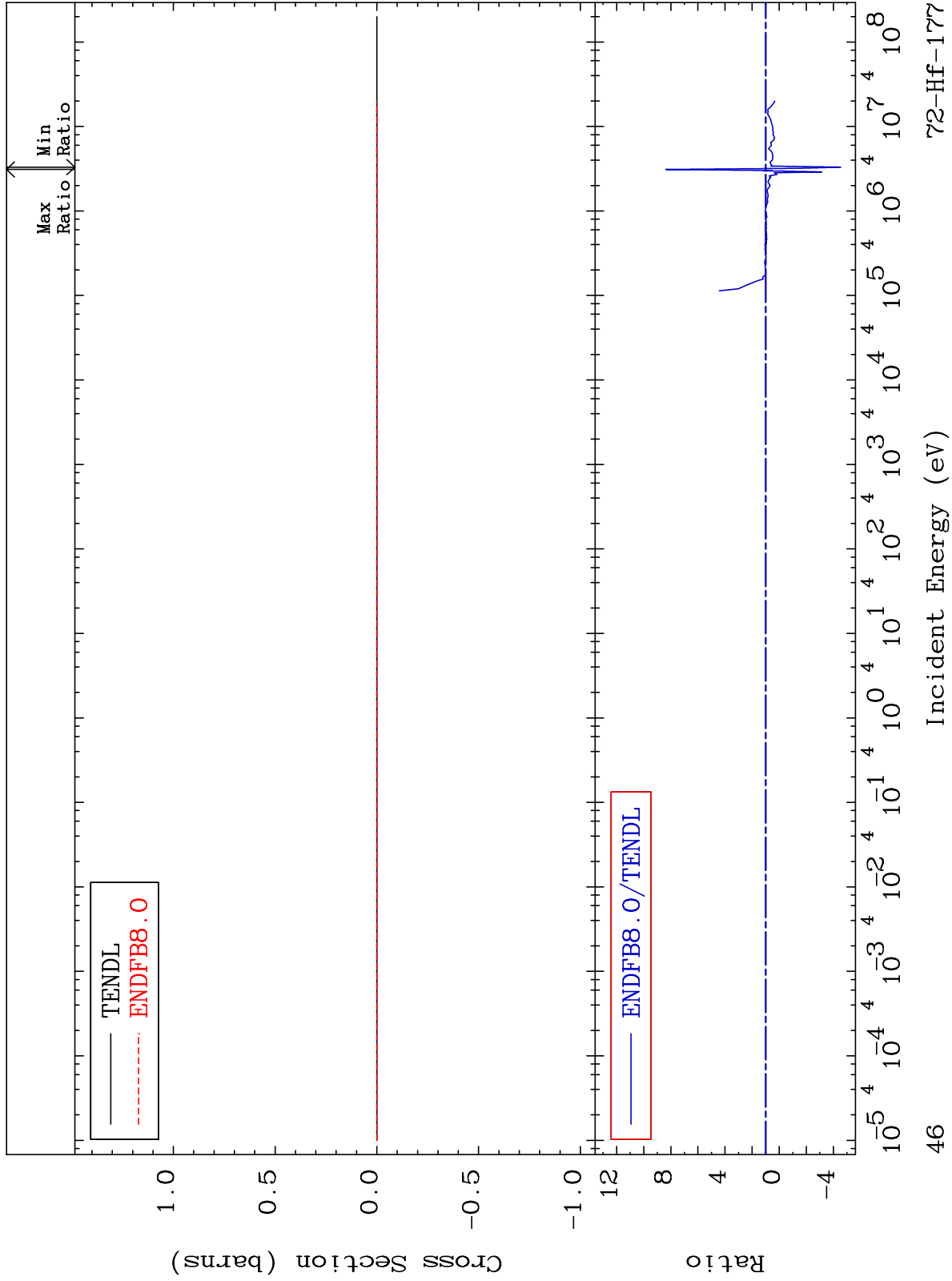
Incident Energy (eV)

72-Hf-177

MAT 7234

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

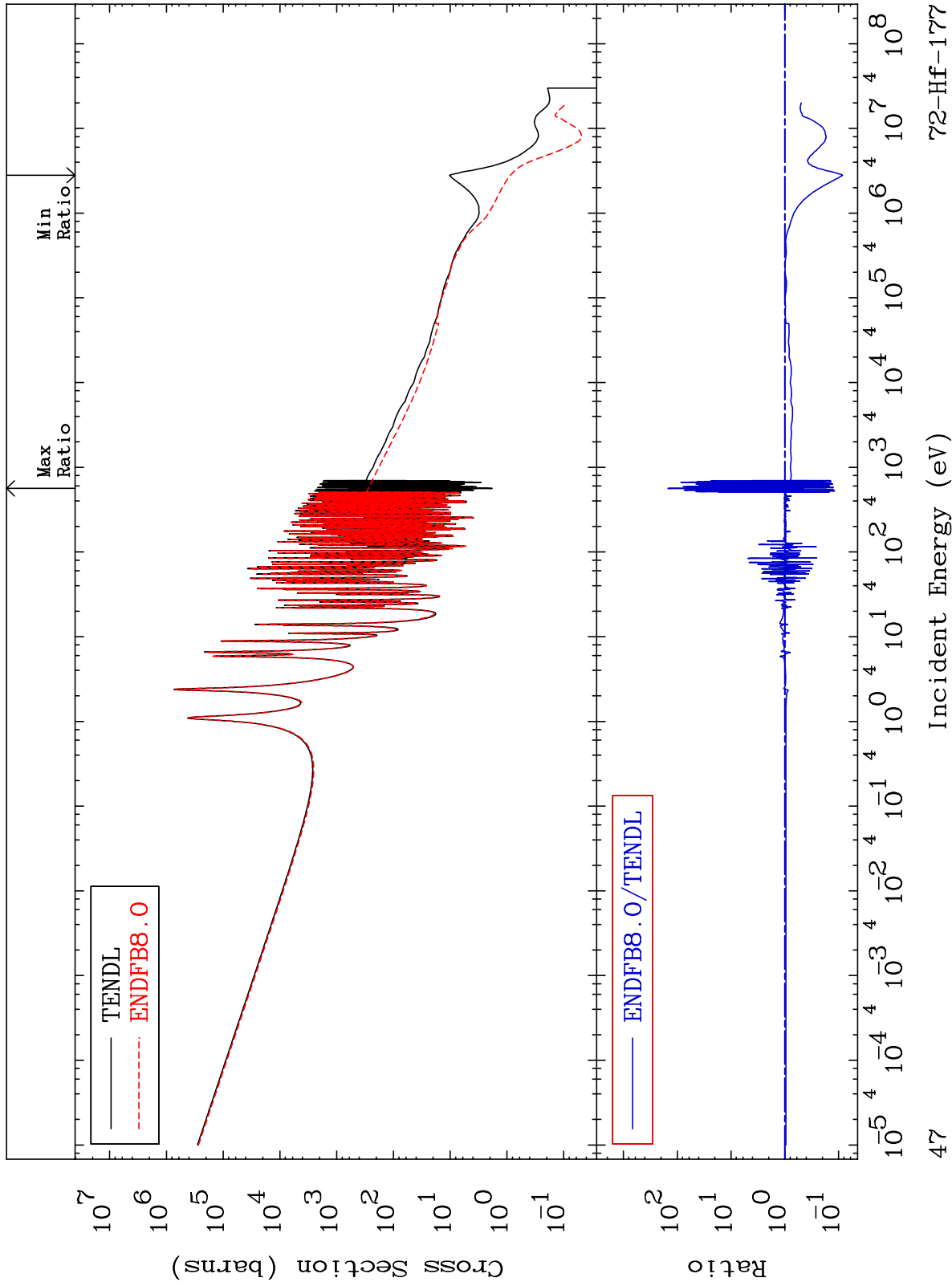
72-Hf-177
-552.5 To 736.7 %



MAT 7234

Kerma capture (mt102)
Cross Section

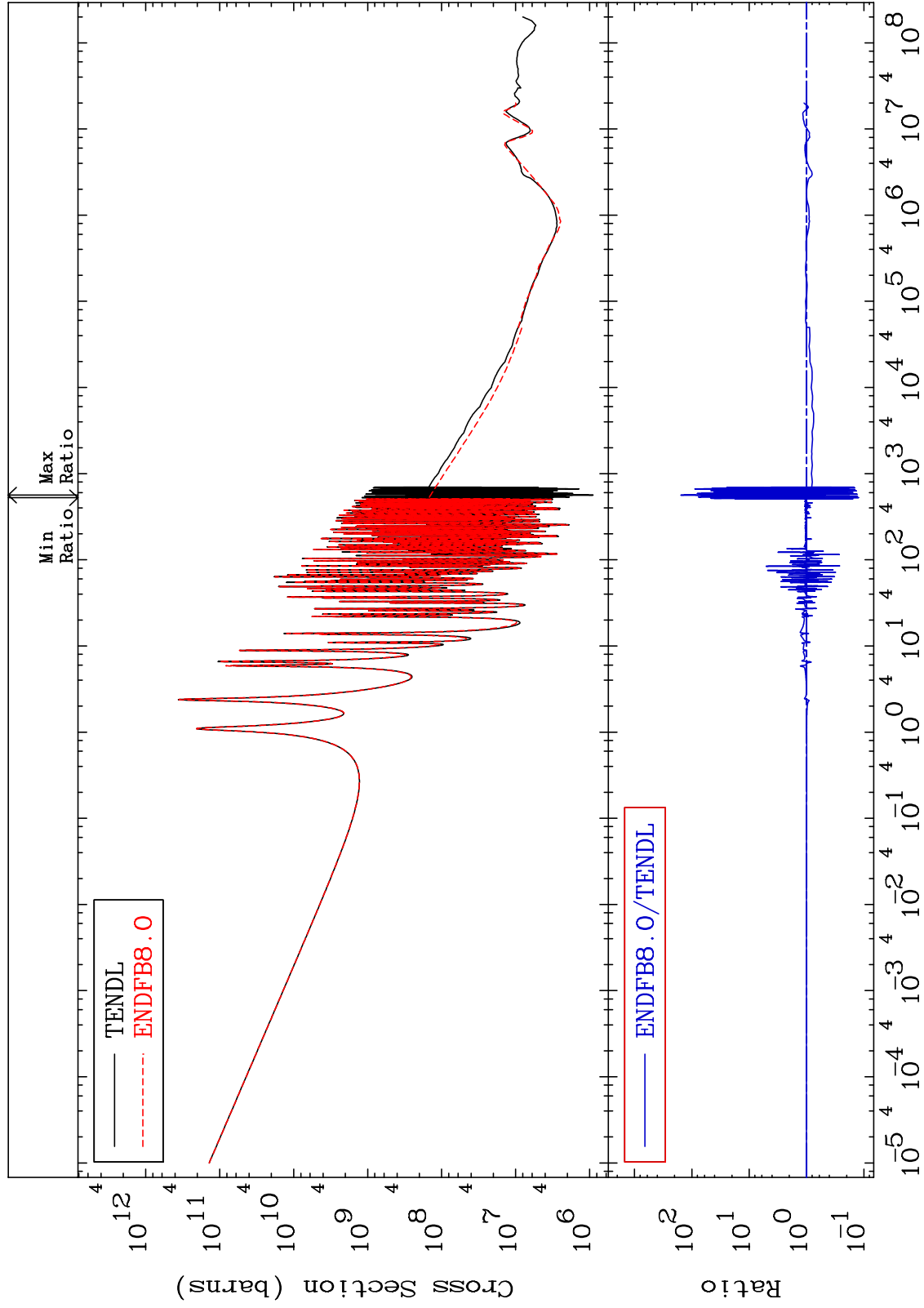
72-Hf-177
-91.58 To 9999. %



MAT 7234

Total photon (eV-barns)
Cross Section

72-Hf-177
-87.59 To 9999. %



48

Incident Energy (eV)

72-Hf-177

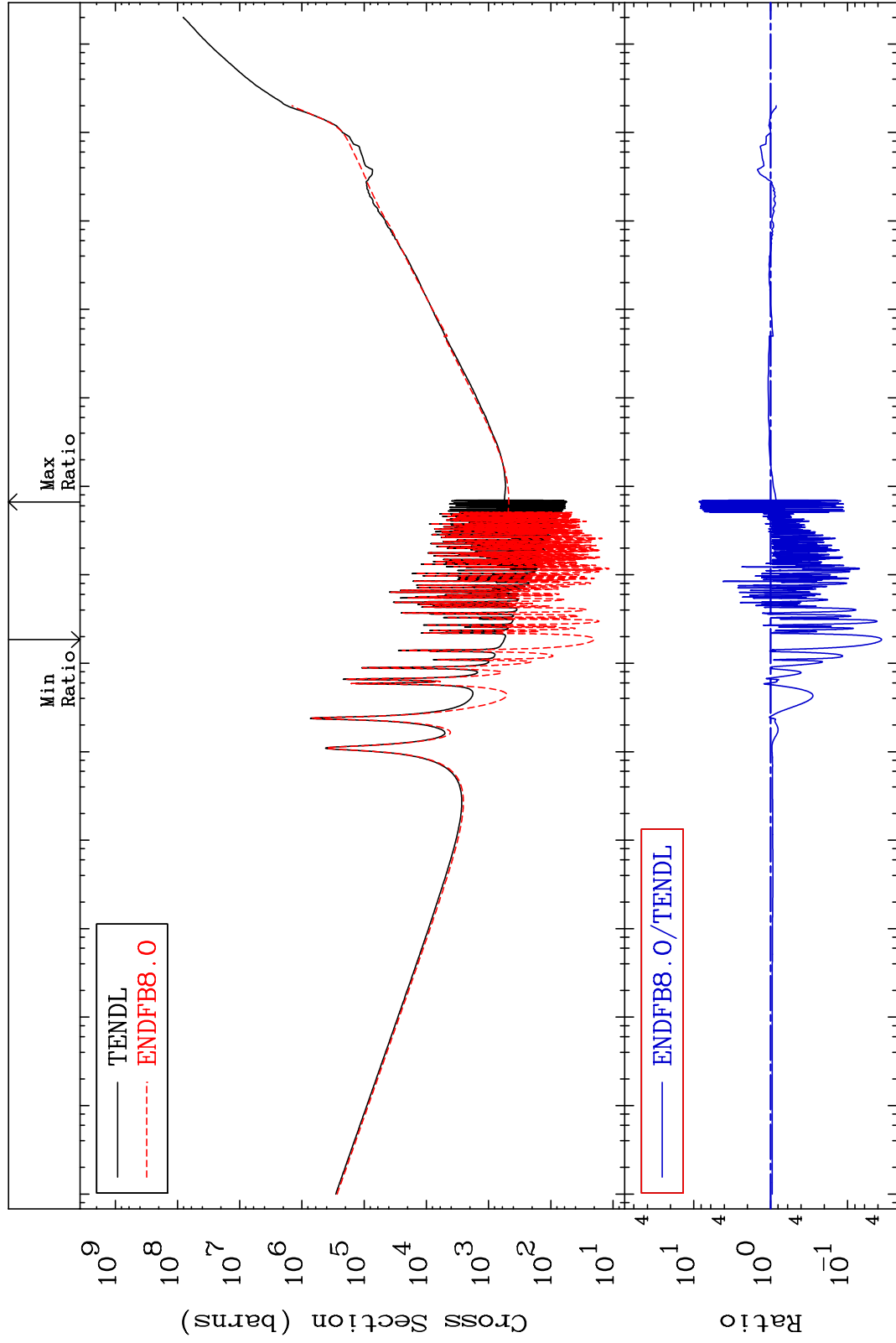
MAT 7234

Total kinematic kerma (high limit)

72-Hf-177

-96.40 To 759.2 %

Cross Section



49

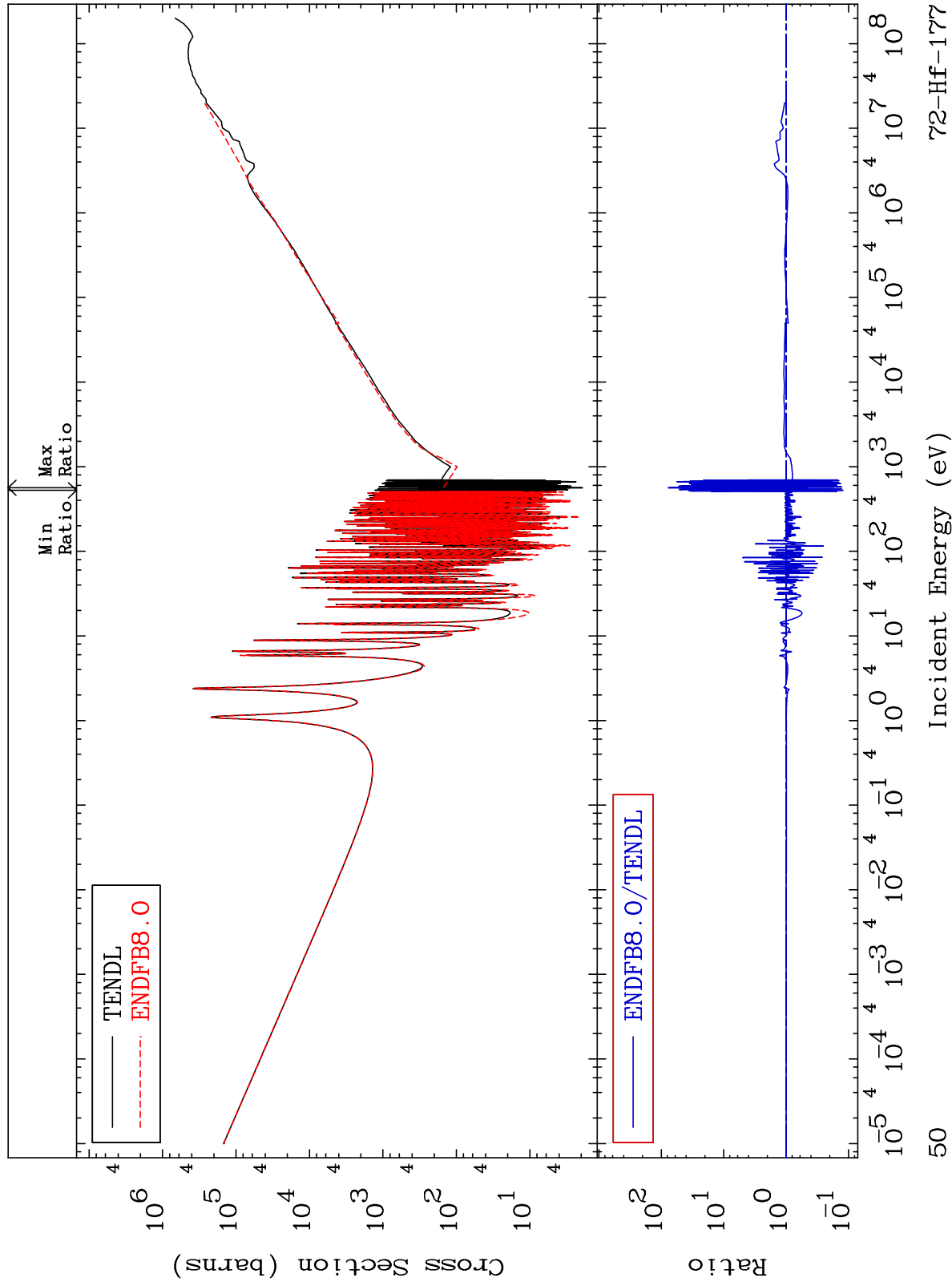
Incident Energy (eV)

72-Hf-177

MAT 7234

Dpa total (eV-barns)
Cross Section

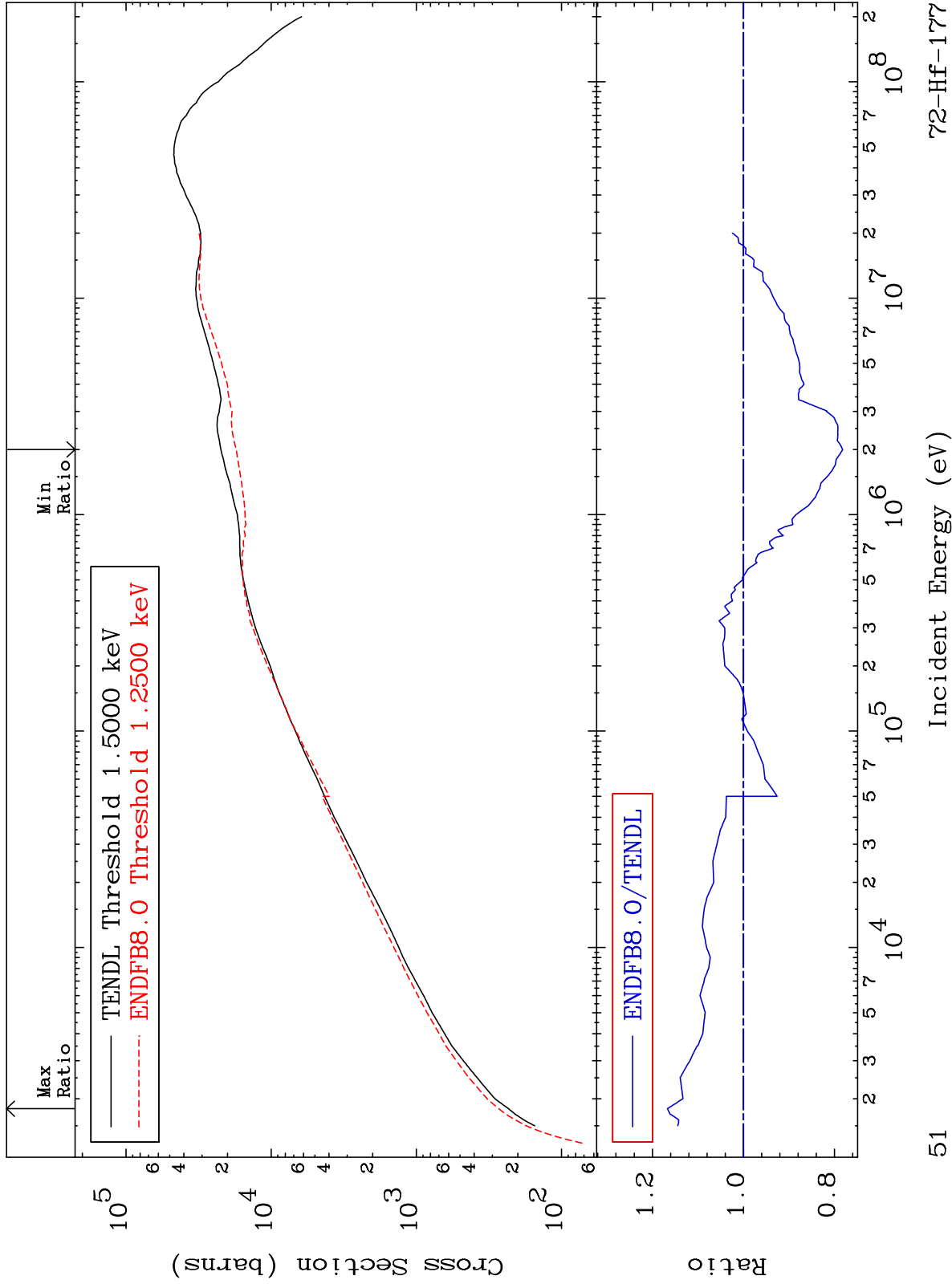
72-Hf-177
-87.65 To 7698. %



MAT 7234

Dpa elastic (mt2)
Cross Section

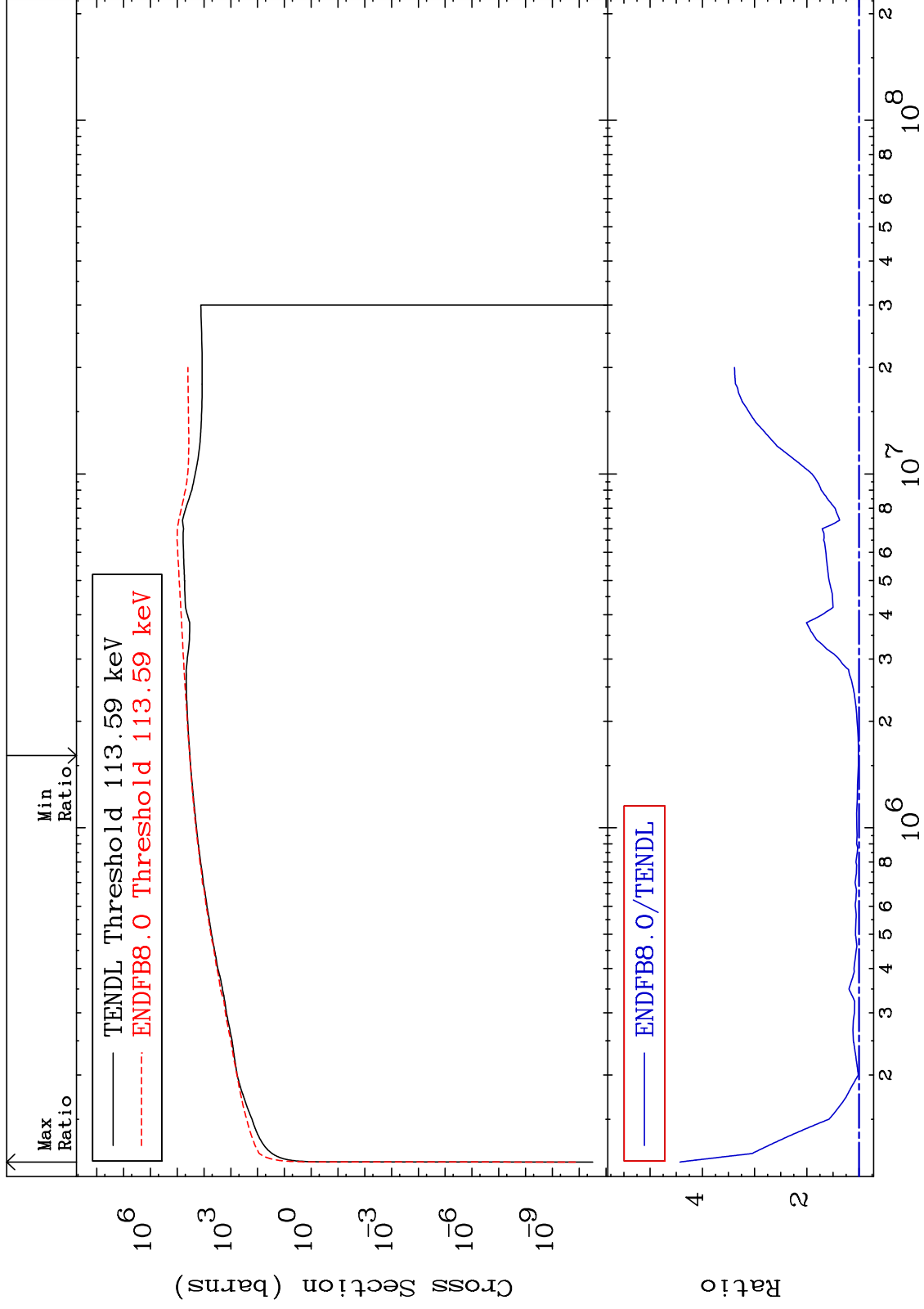
72-Hf-177
-21.81 To 16.67 %



MAT 7234

Dpa inelastic (mt51-91)
Cross Section

72-Hf-177
1.361 To 342.7 %



52

72-Hf-177

MAT 7234

Dpa disappearance (mt102 -120)
Cross Section

72-Hf-177
-91.78 To 7698. %

