

Program Complot
(Version 2018-1)

by

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Press Mouse Button to Start

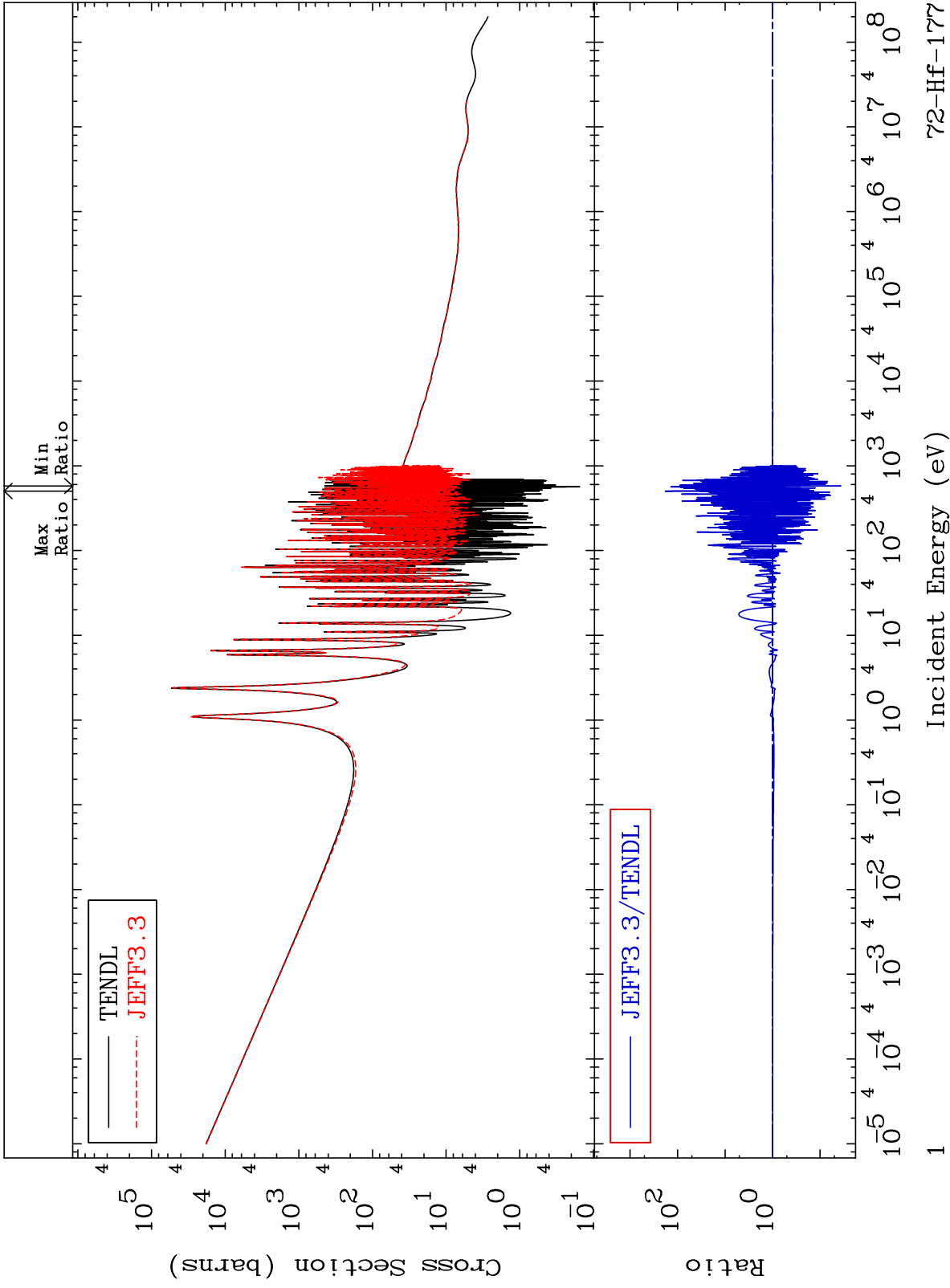
MAT 7234

Total

⁷²Hf-177

-96.32 To 9999. %

Cross Section



Incident Energy (eV)

⁷²Hf-177

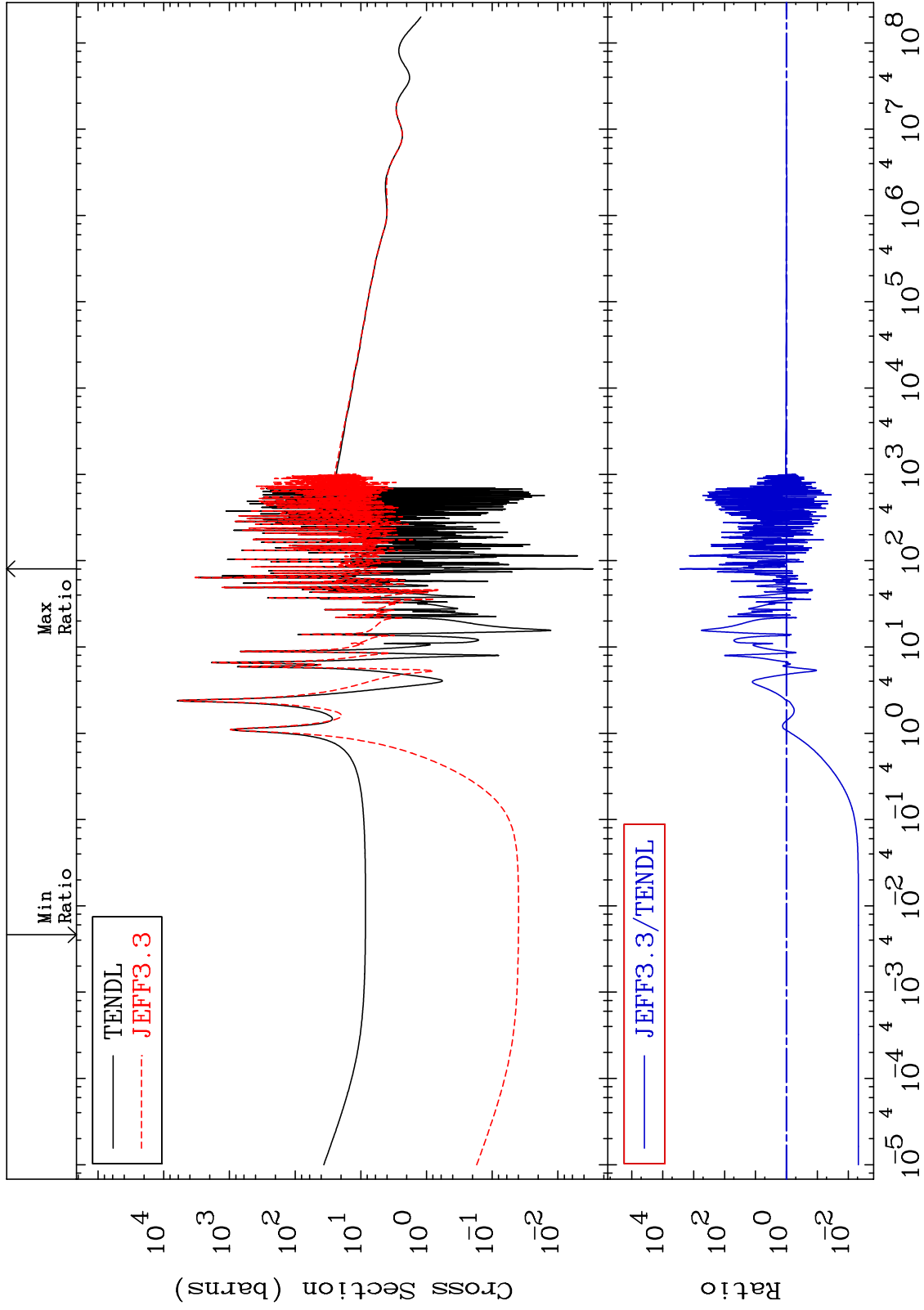
MAT 7234

Elastic

Cross Section

⁷²Hf-177

-99.53 To 9999. %



— TENDL
- - - JEFF3.3

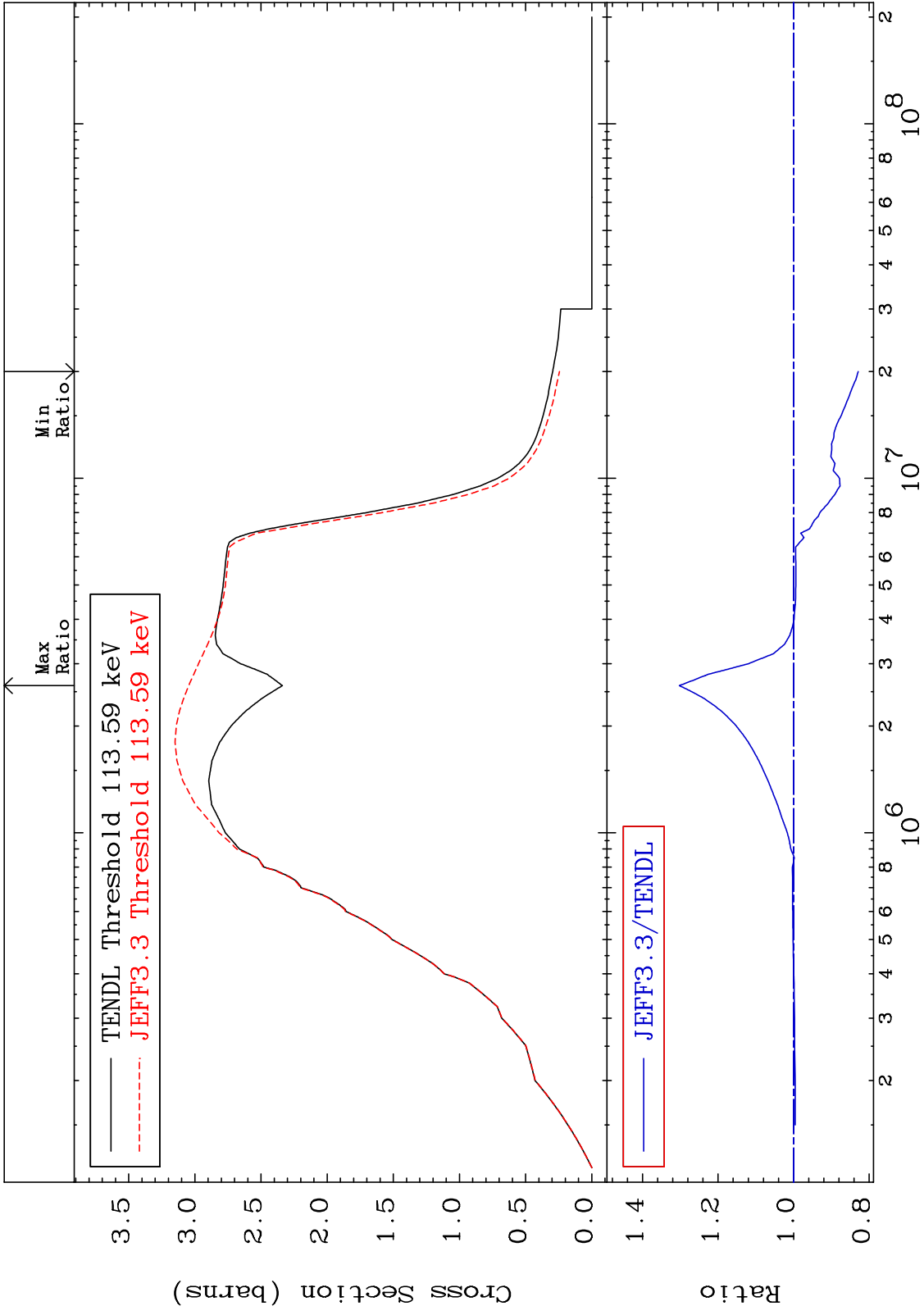
— JEFF3.3/TENDL

MAT 7234

Inelastic
Cross Section

⁷²Hf-177

-17.11 To 30.26 %



Incident Energy (eV)

⁷²Hf-177

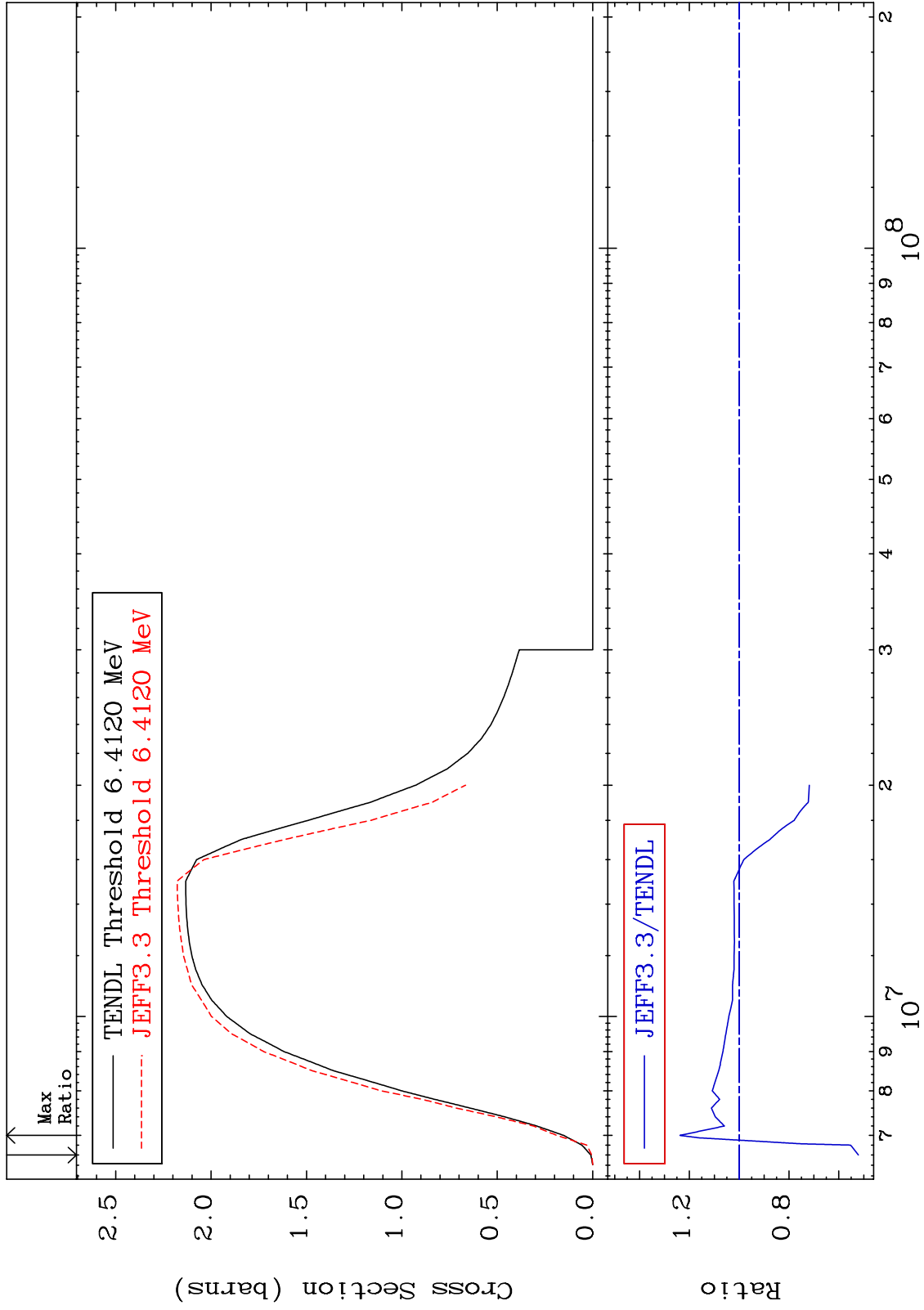
MAT 7234

(n, 2n)

⁷²Hf-177

Cross Section

-47.87 To 23.77 %



MAT 7234

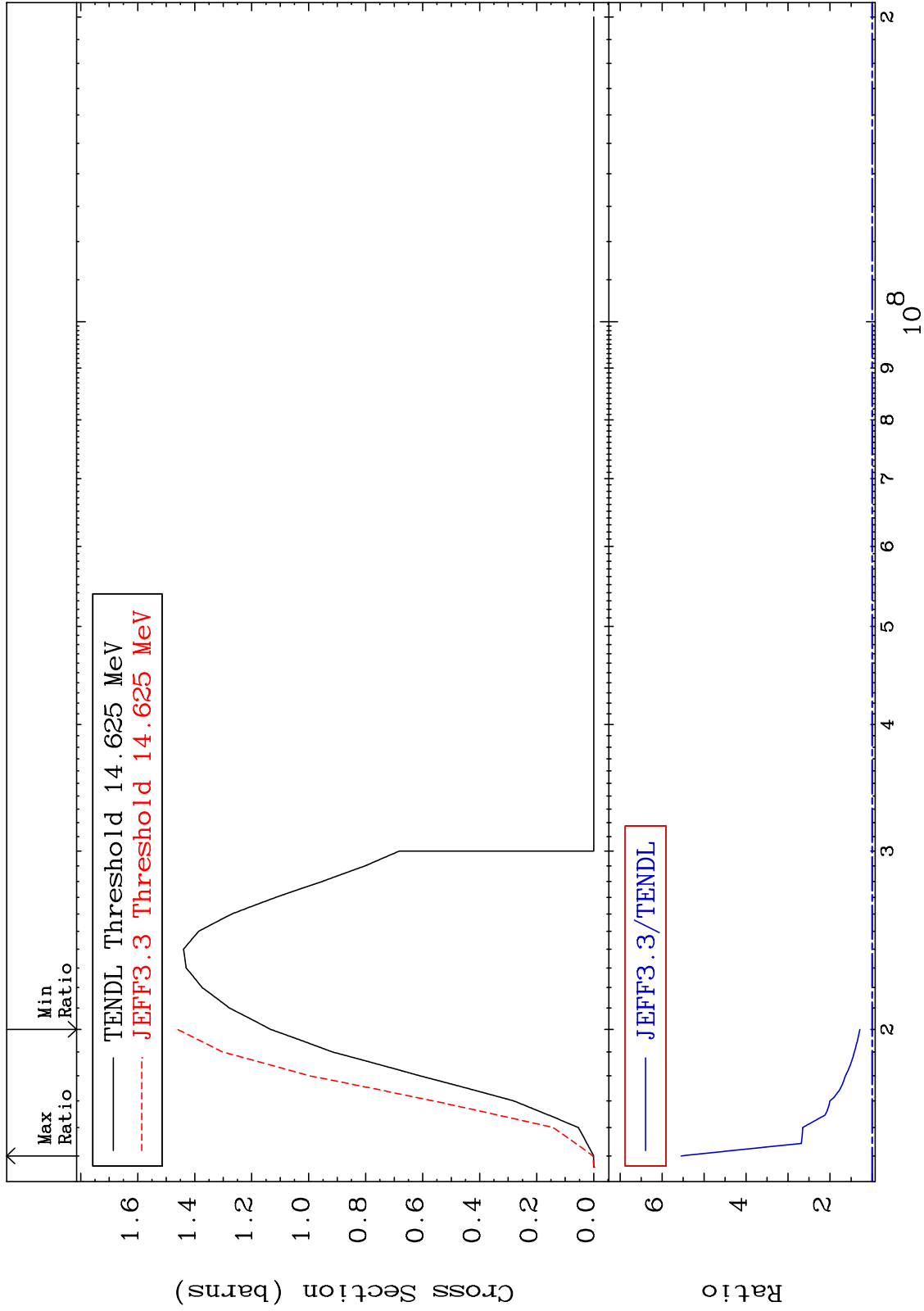
(n, 3n)

⁷²Hf-177

Cross Section

28.85

To 454.4 %



72-Hf-177

Incident Energy (eV)

5

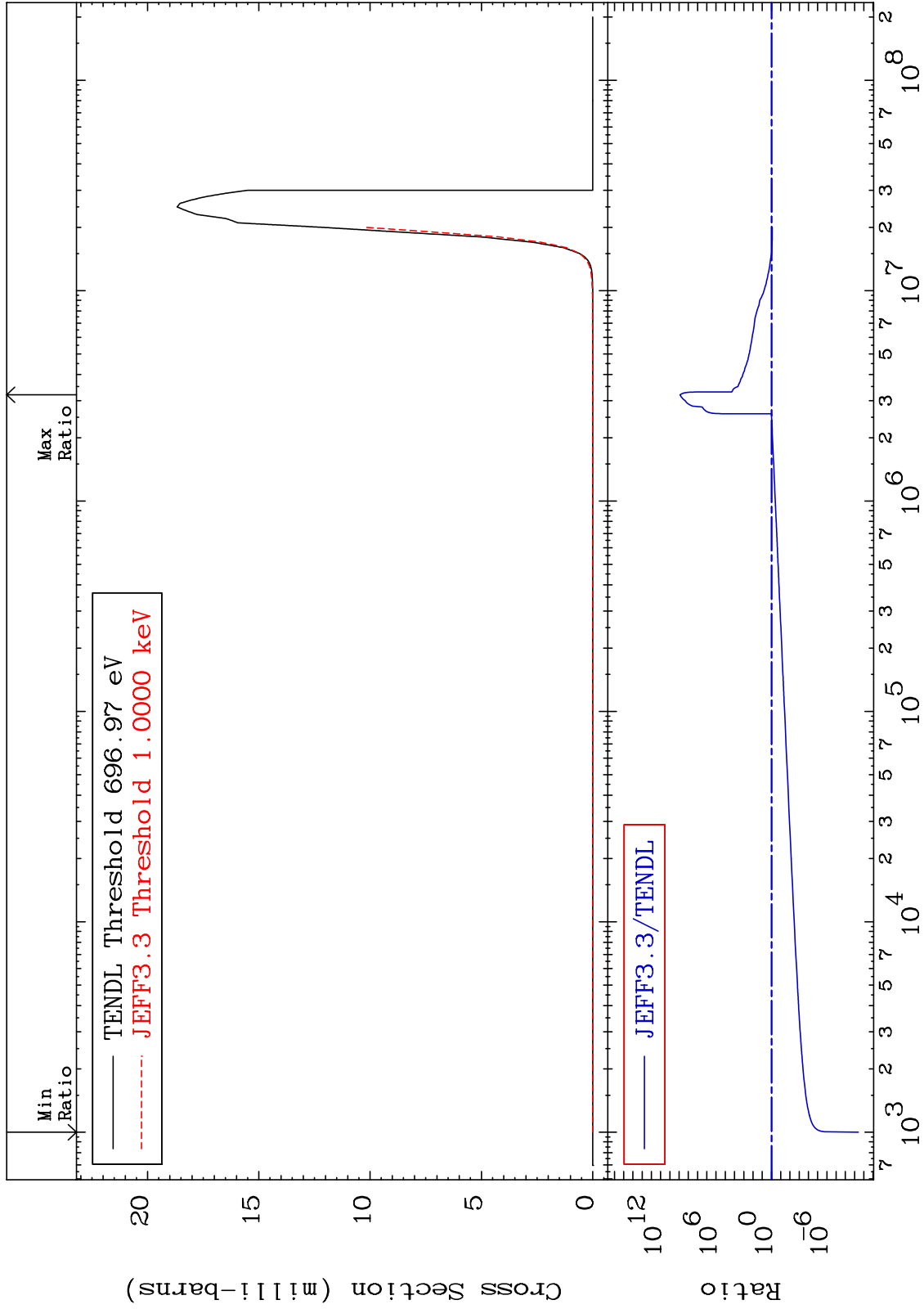
MAT 7234

(n, n') α

72-Hf-177

Cross Section

-100.0 To 9999. %



6

Incident Energy (eV)

72-Hf-177

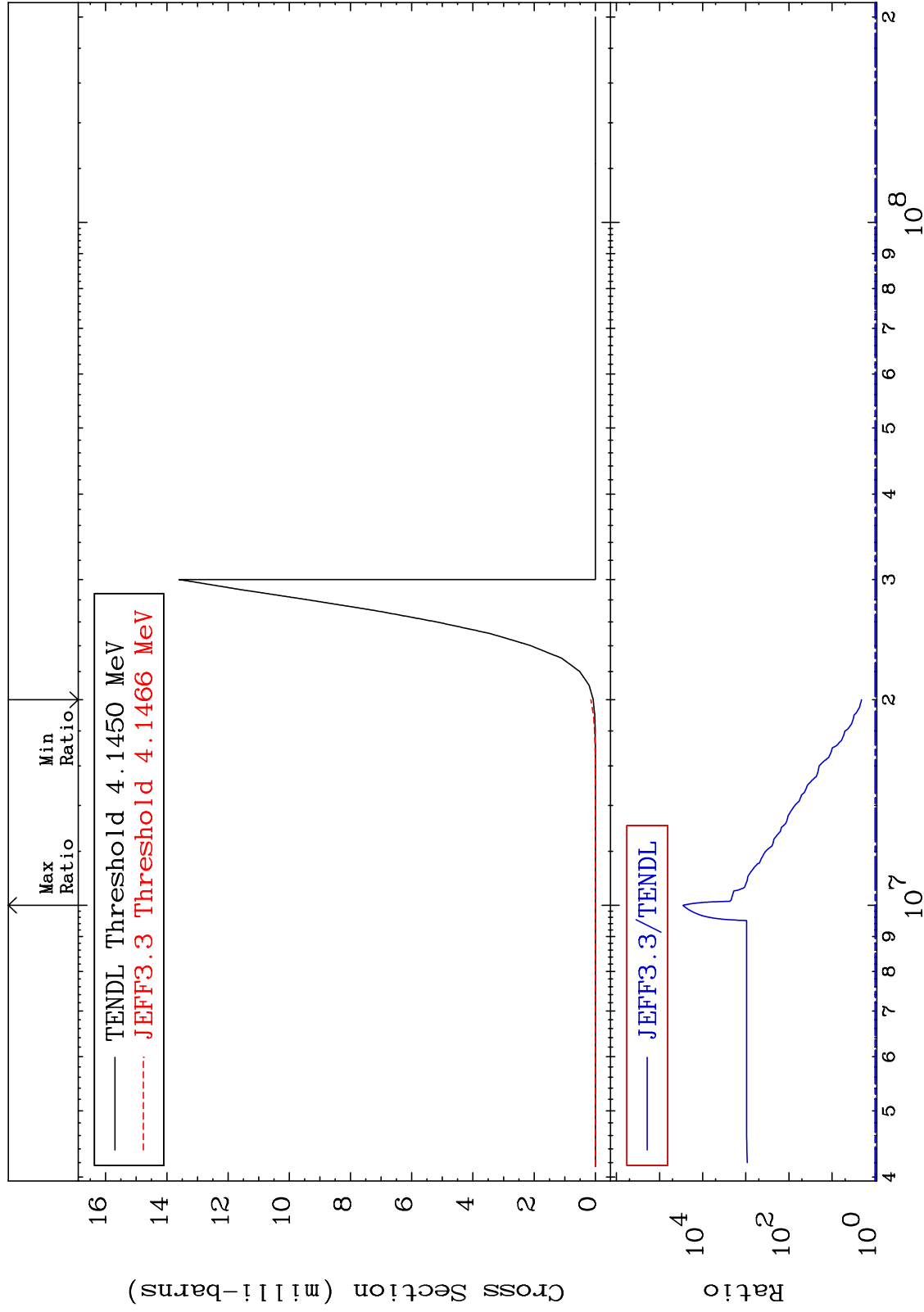
MAT 7234

(n,2n) α

72-Hf-177

107.5 To 9999. %

Cross Section



72-Hf-177

Incident Energy (eV)

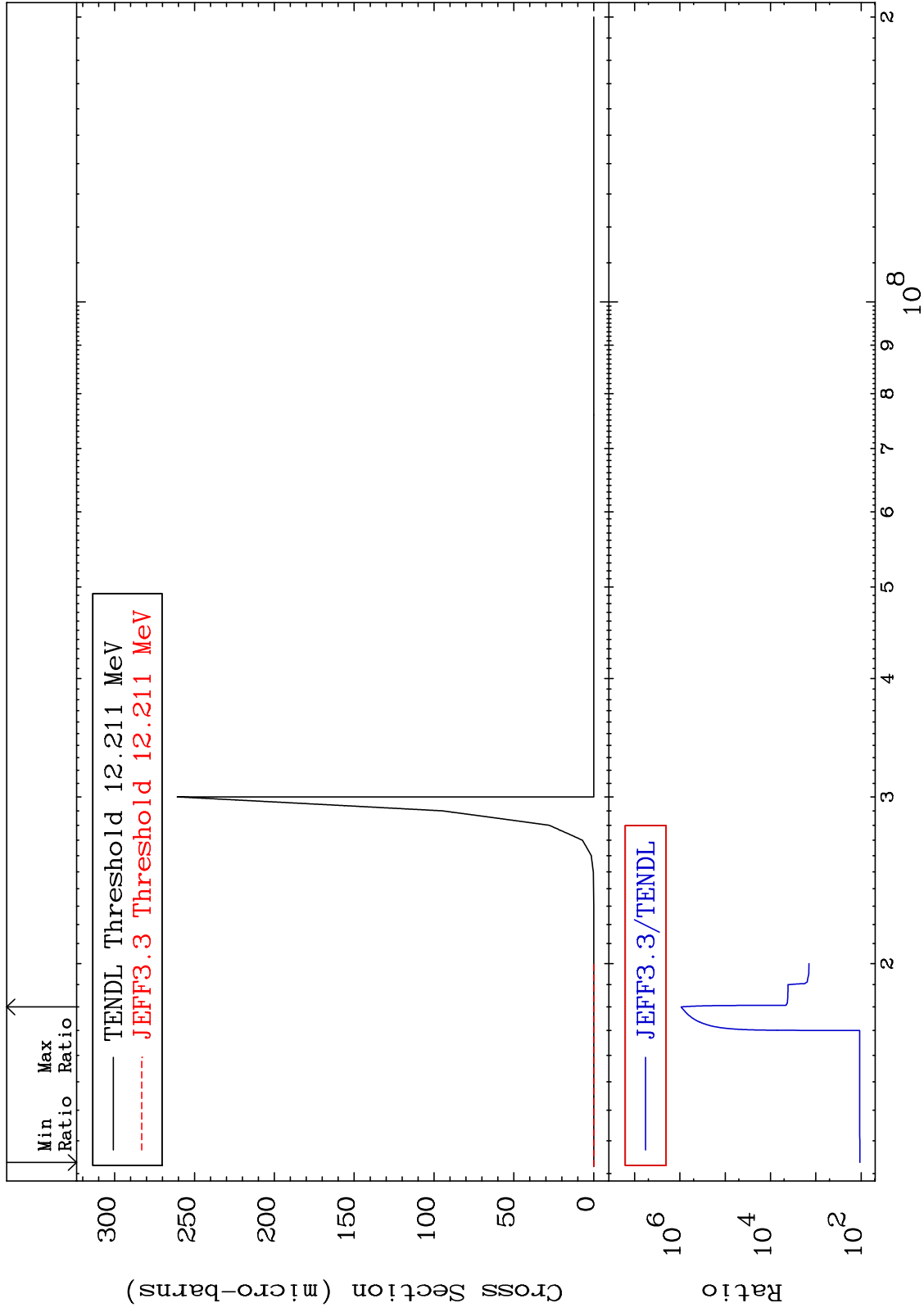
MAT 7234

(n,3n) α

72-Hf-177

Cross Section

9999. To 9999. %



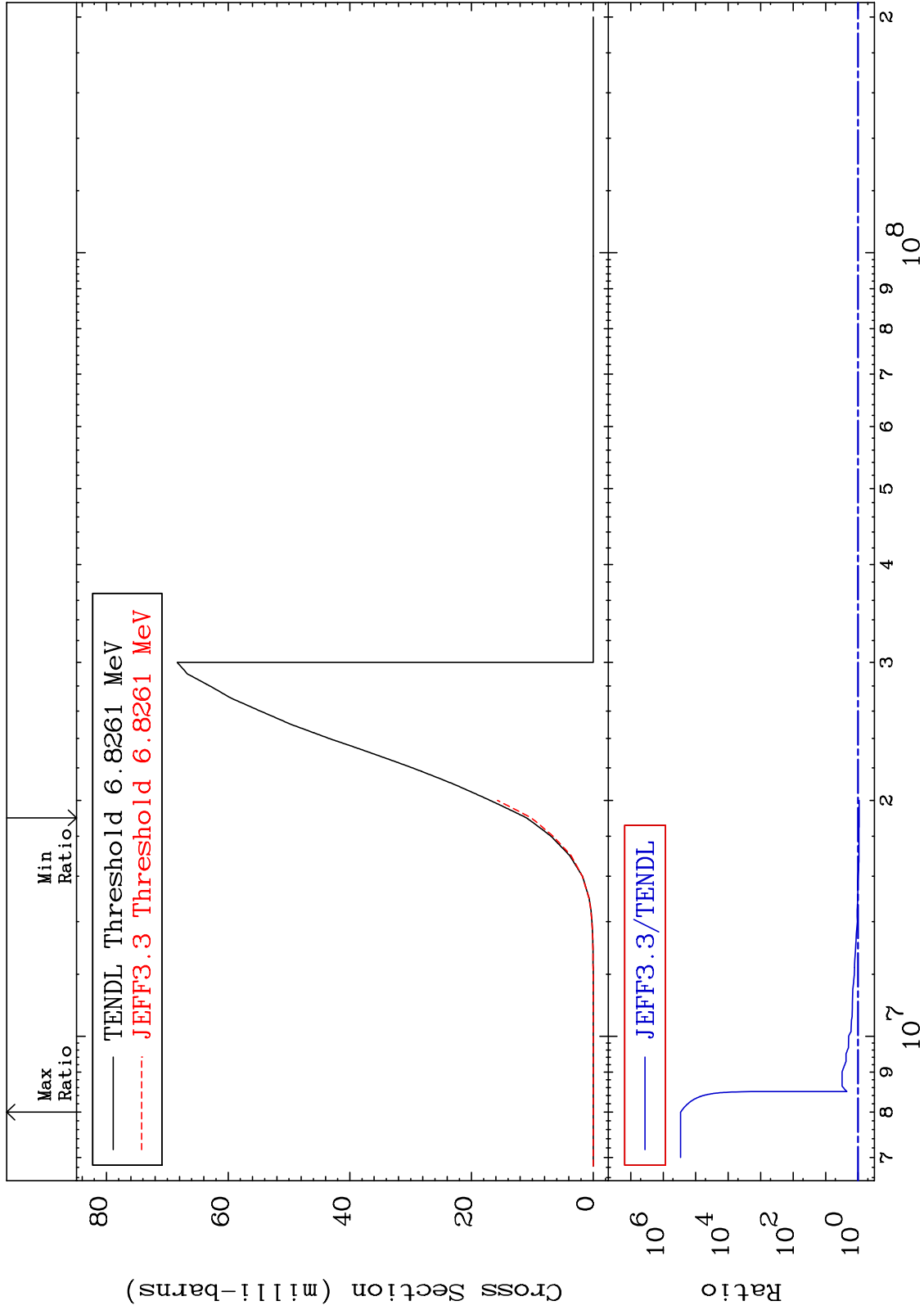
MAT 7234

(n, n') p

⁷²Hf-177

Cross Section

-7.103 To 9999. %



9

Incident Energy (eV)

⁷²Hf-177

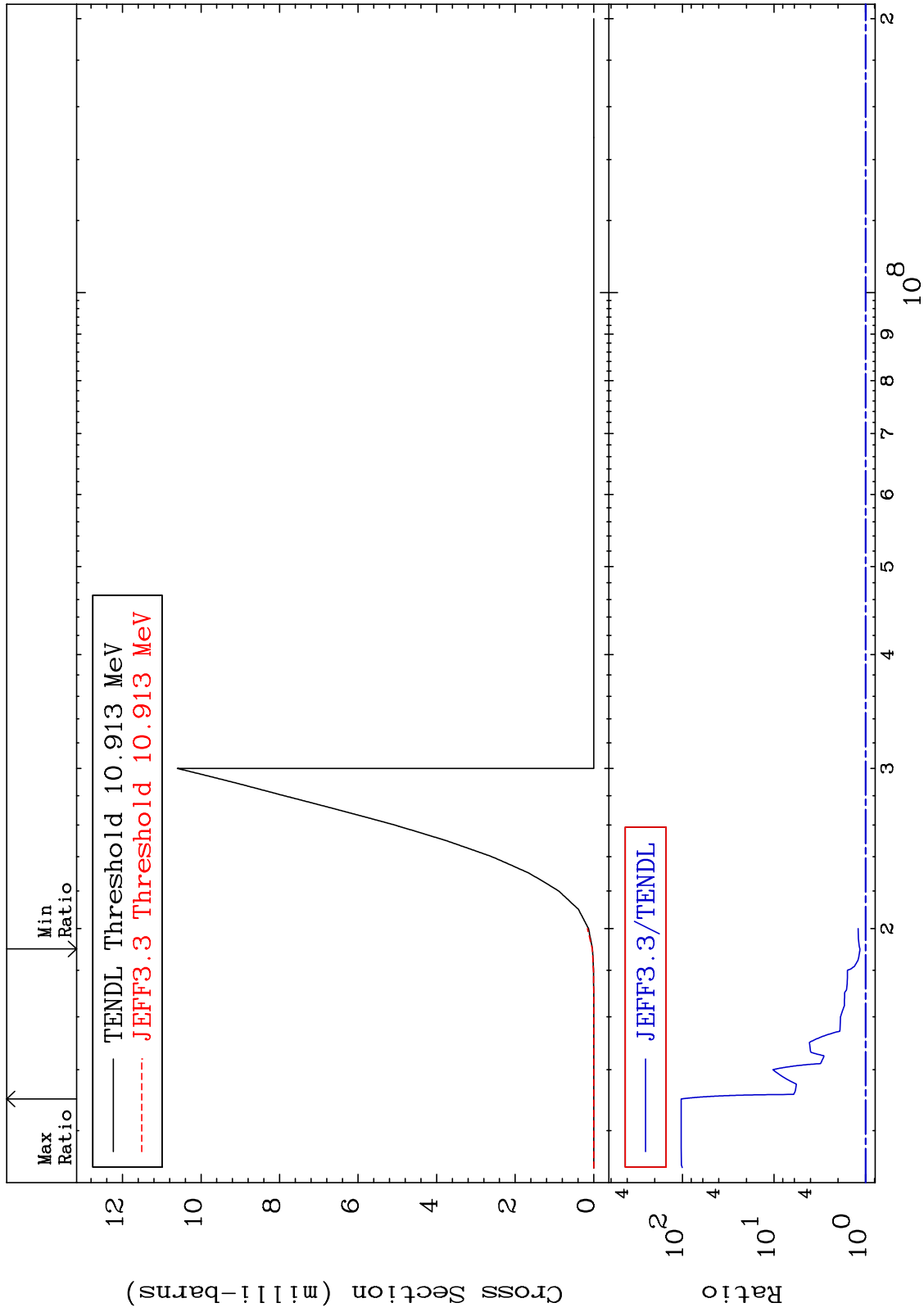
MAT 7234

(n,n') d

72-Hf-177

Cross Section

15.23 To 9999. %



10

Incident Energy (eV)

72-Hf-177

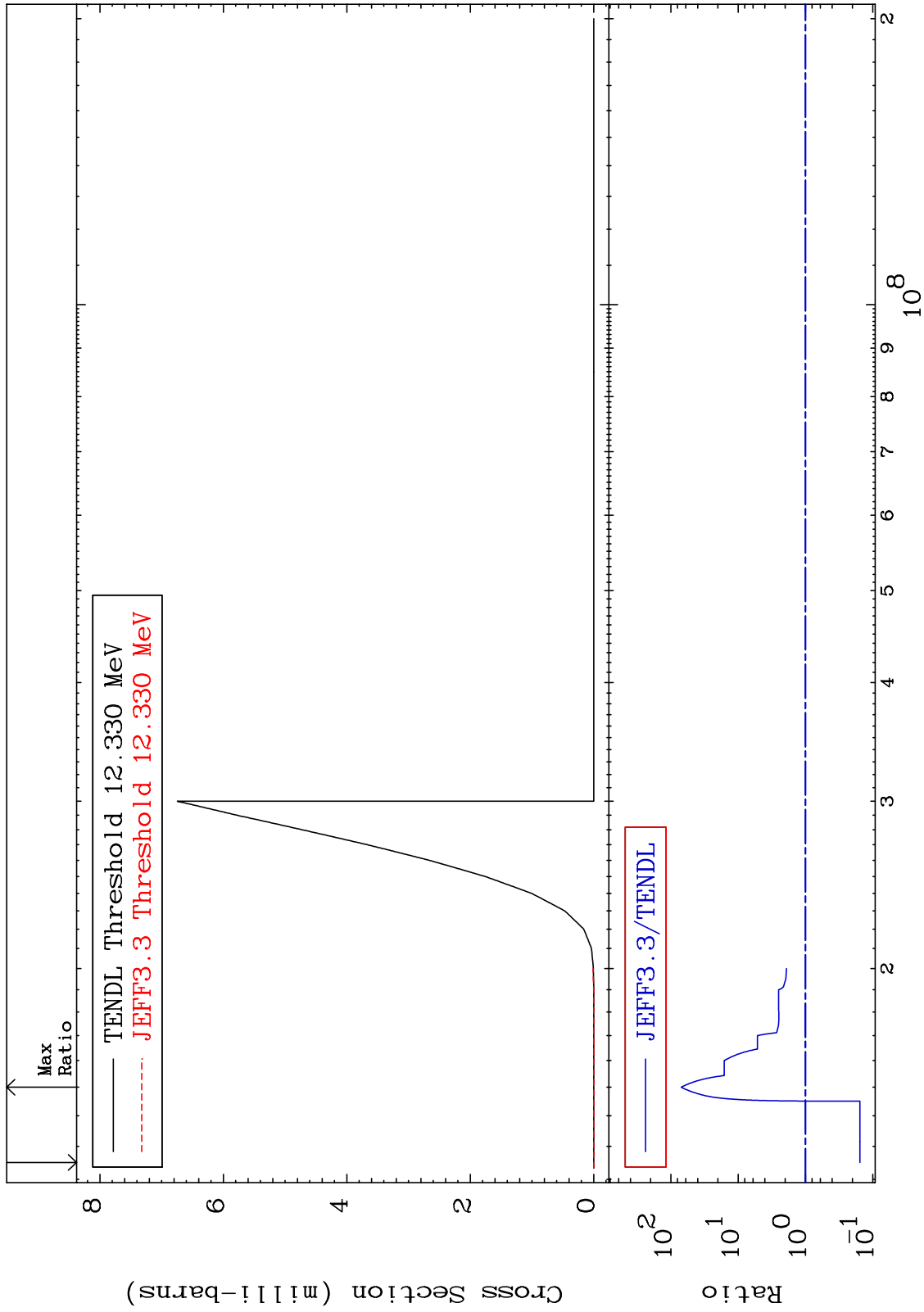
MAT 7234

(n,n') t

72-Hf-177

Cross Section

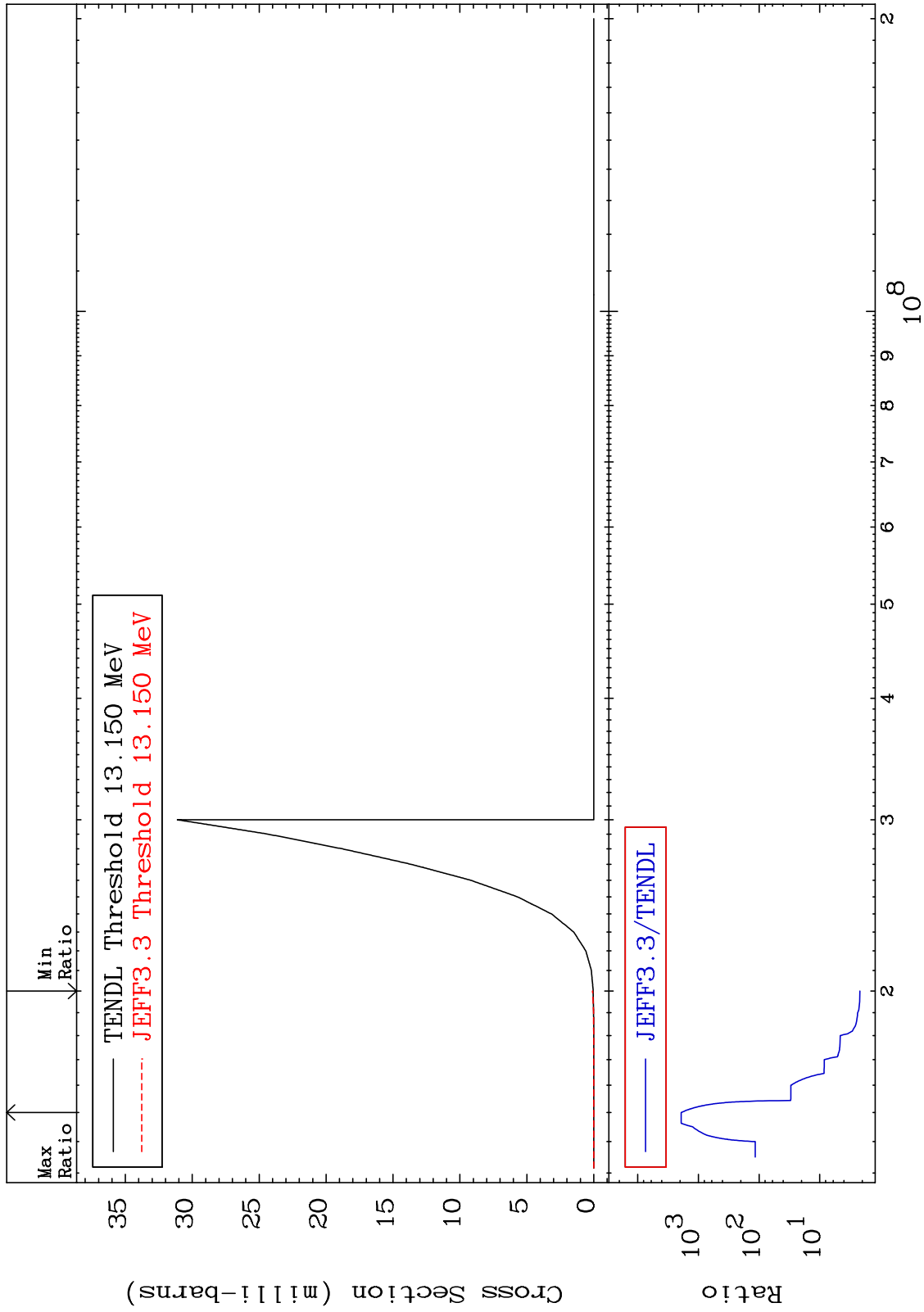
-84.52 To 6925. %



MAT 7234

(n,2n) p
Cross Section

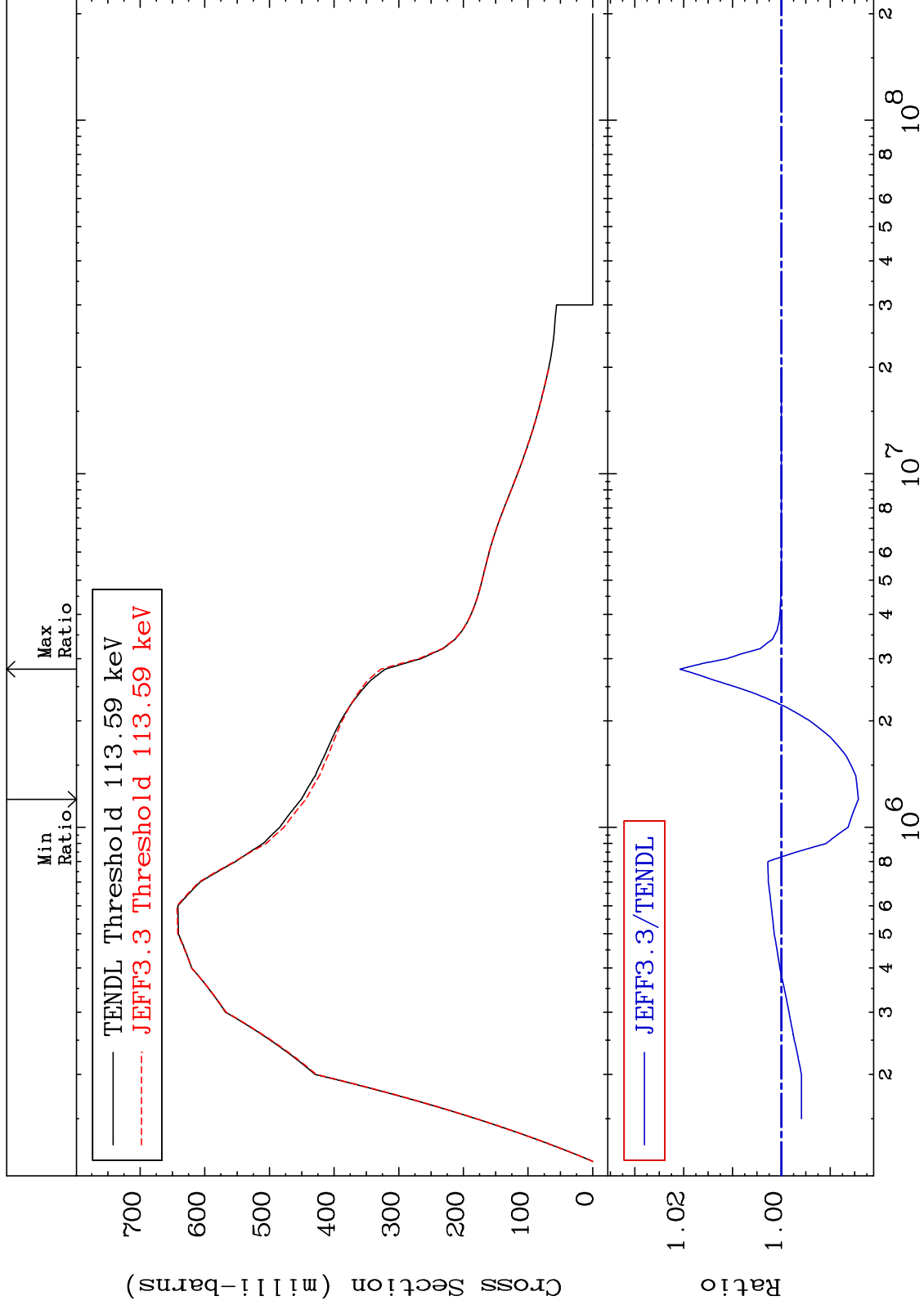
72-Hf-177
118.0 To 9999. %



MAT 7234

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

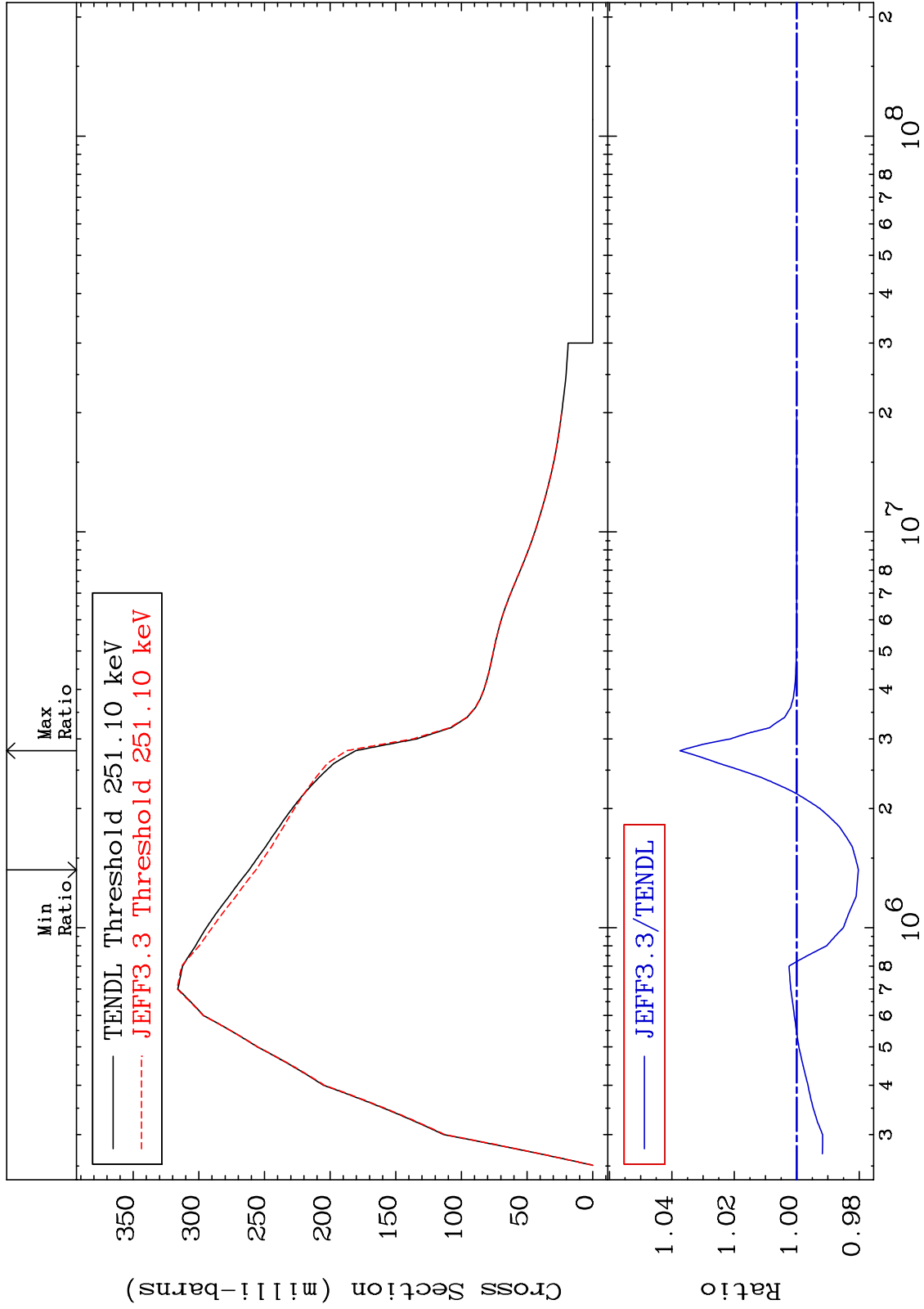
72-Hf-177
-1.576 To 2.075 %



MAT 7234

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

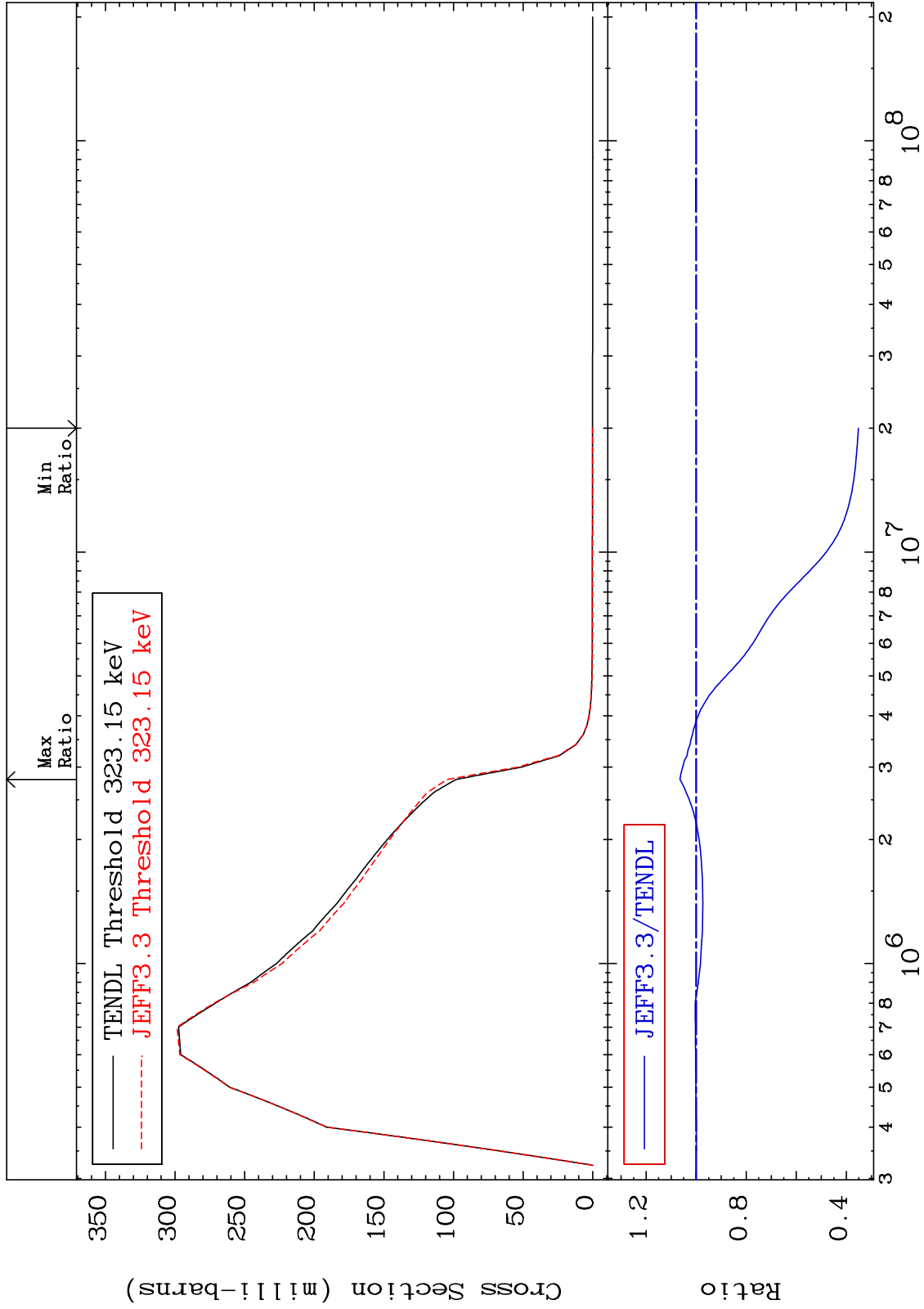
72-Hf-177
-1.977 To 3.739 %



MAT 7234

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

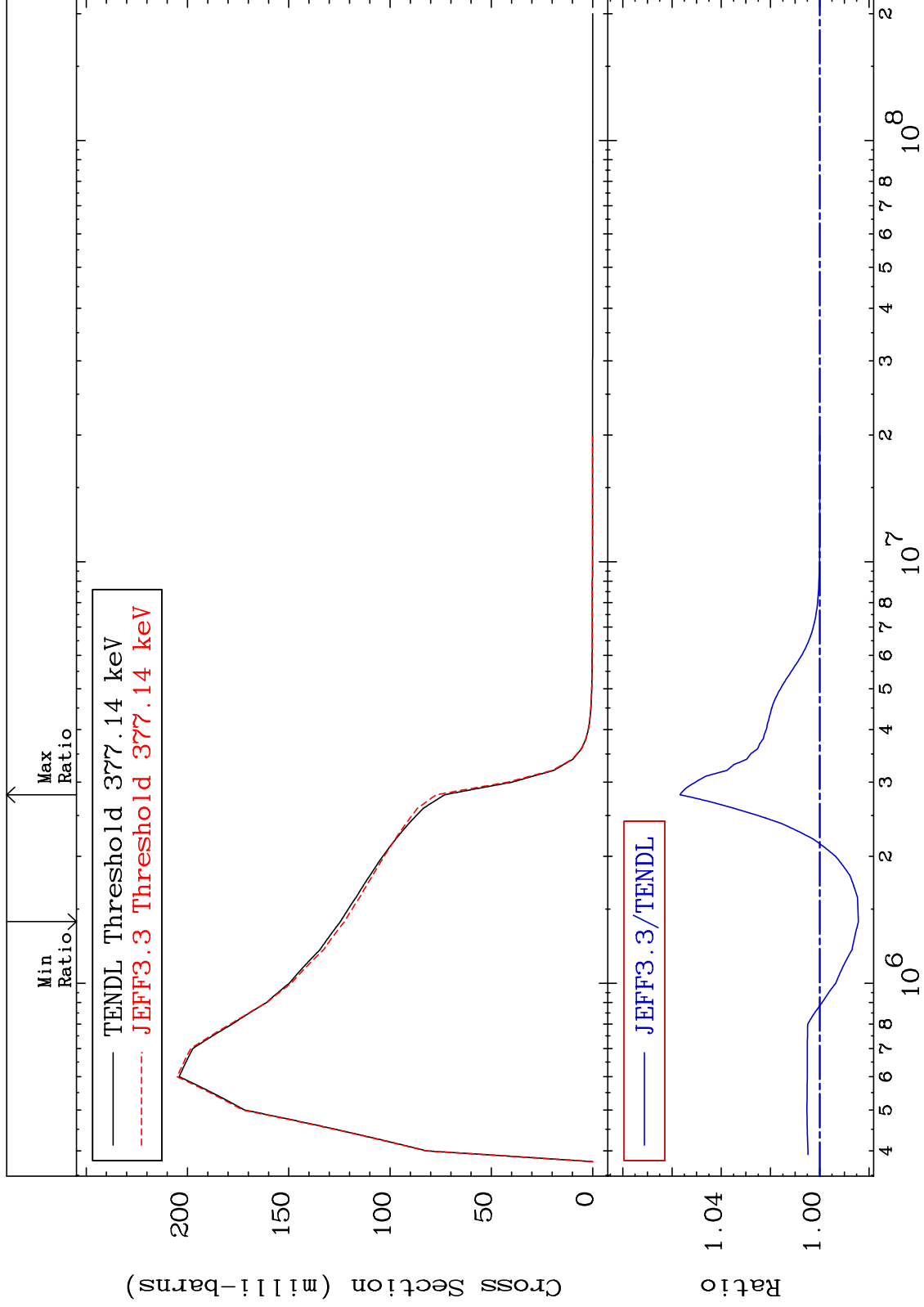
72-Hf-177
-64.82 To 6.465 %



MAT 7234

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

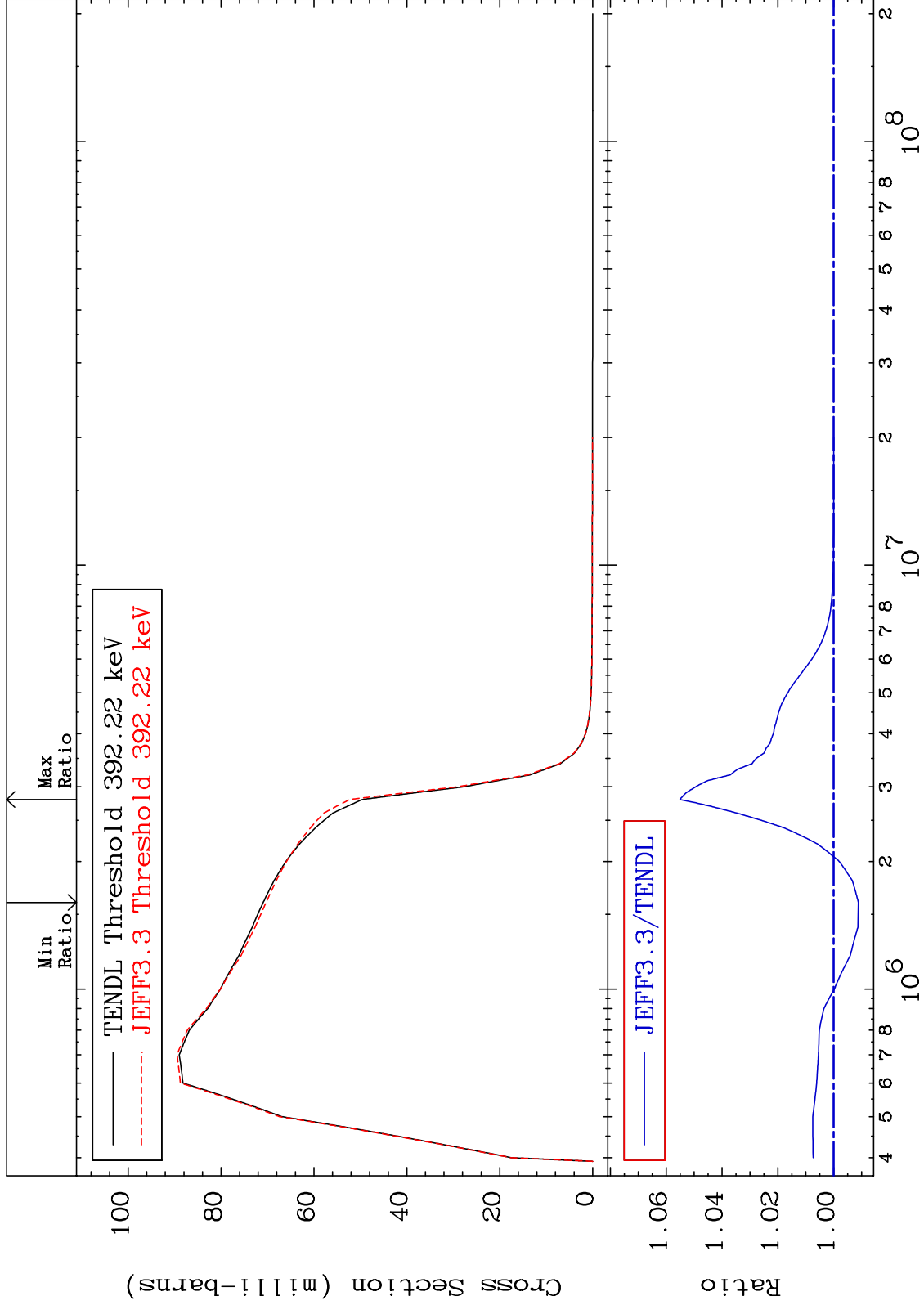
72-Hf-177
-1.570 To 5.674 %



MAT 7234

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

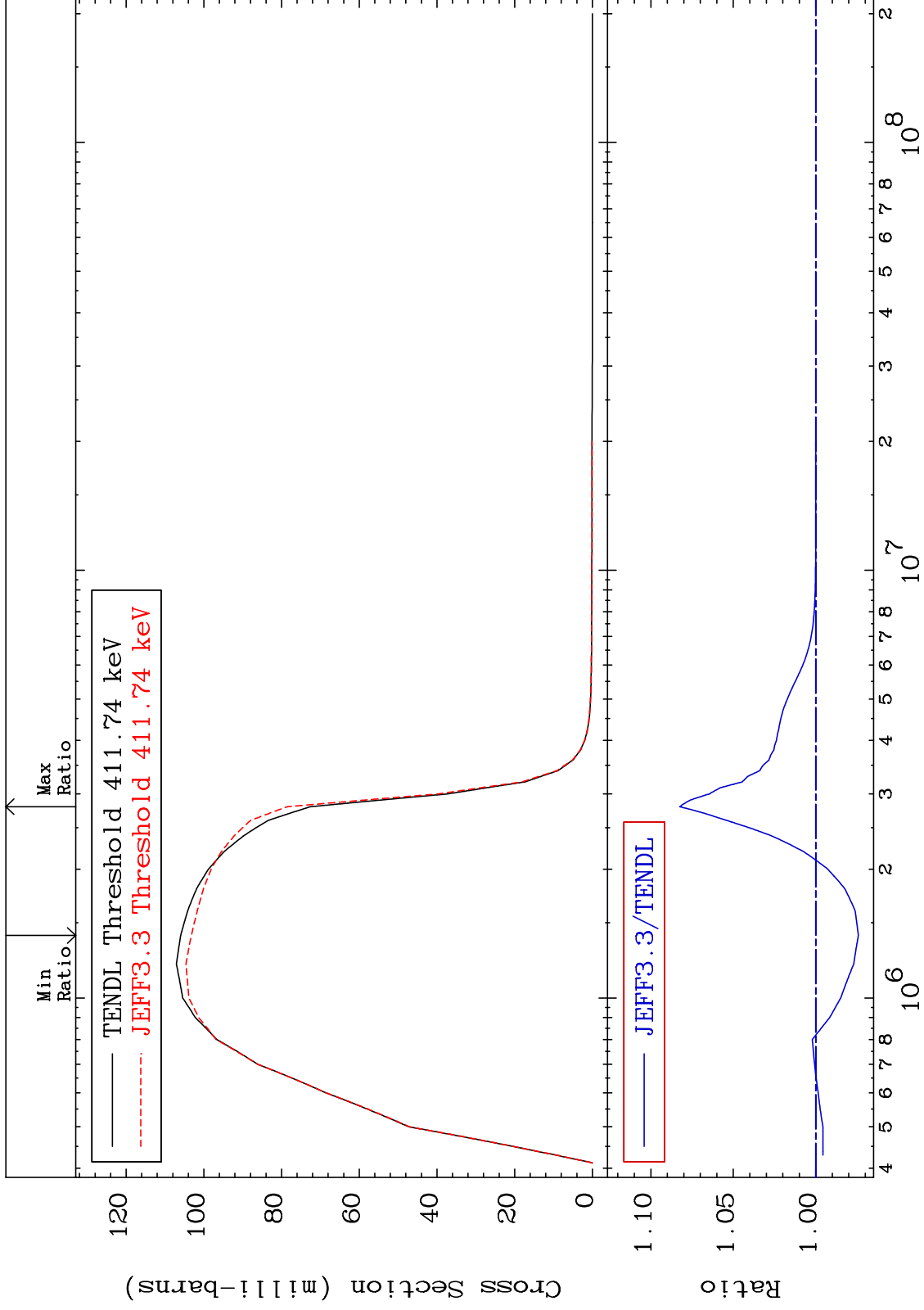
72-Hf-177
-0.887 To 5.503 %



MAT 7234

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

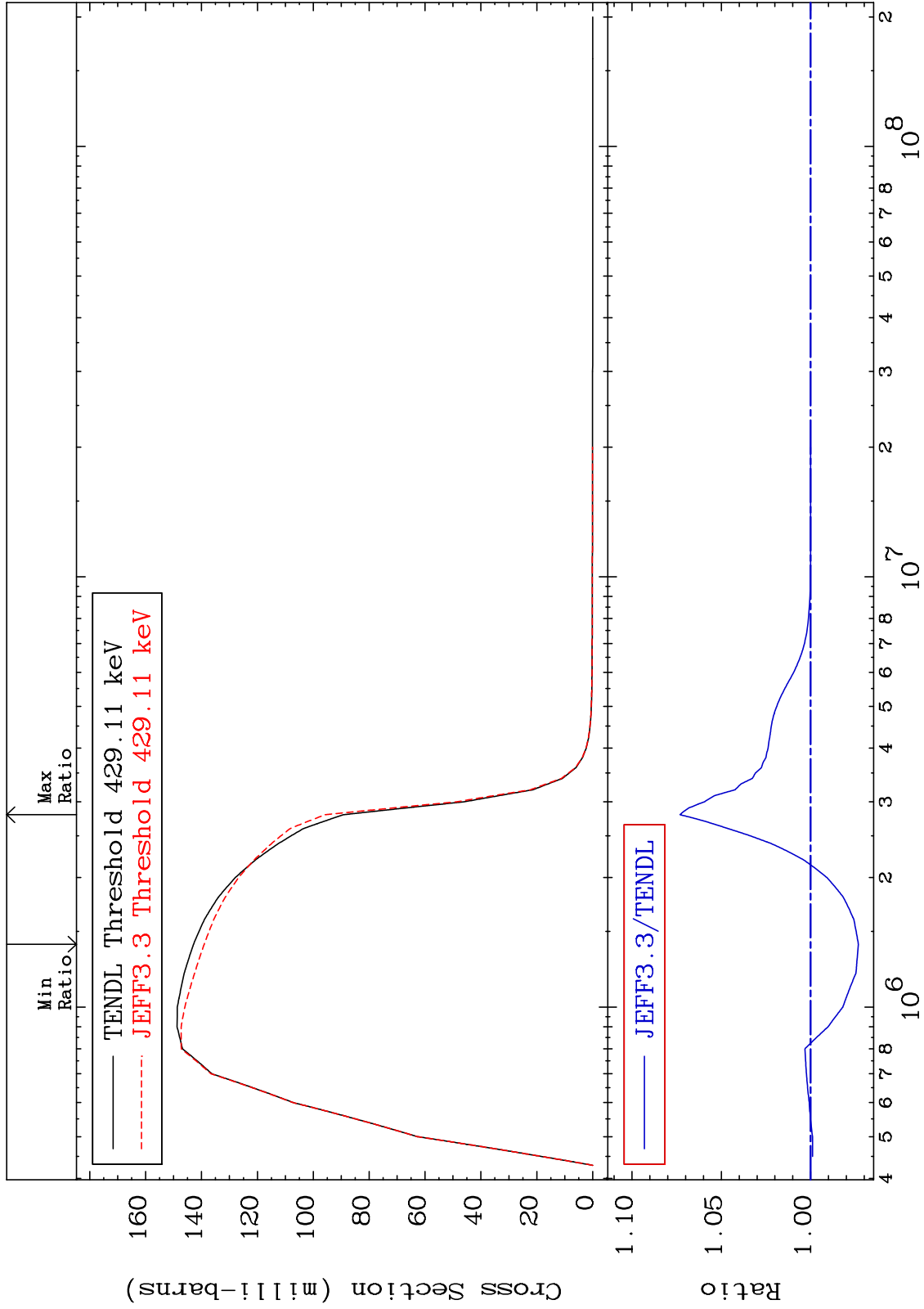
72-Hf-177
-2.579 To 8.244 %



MAT 7234

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

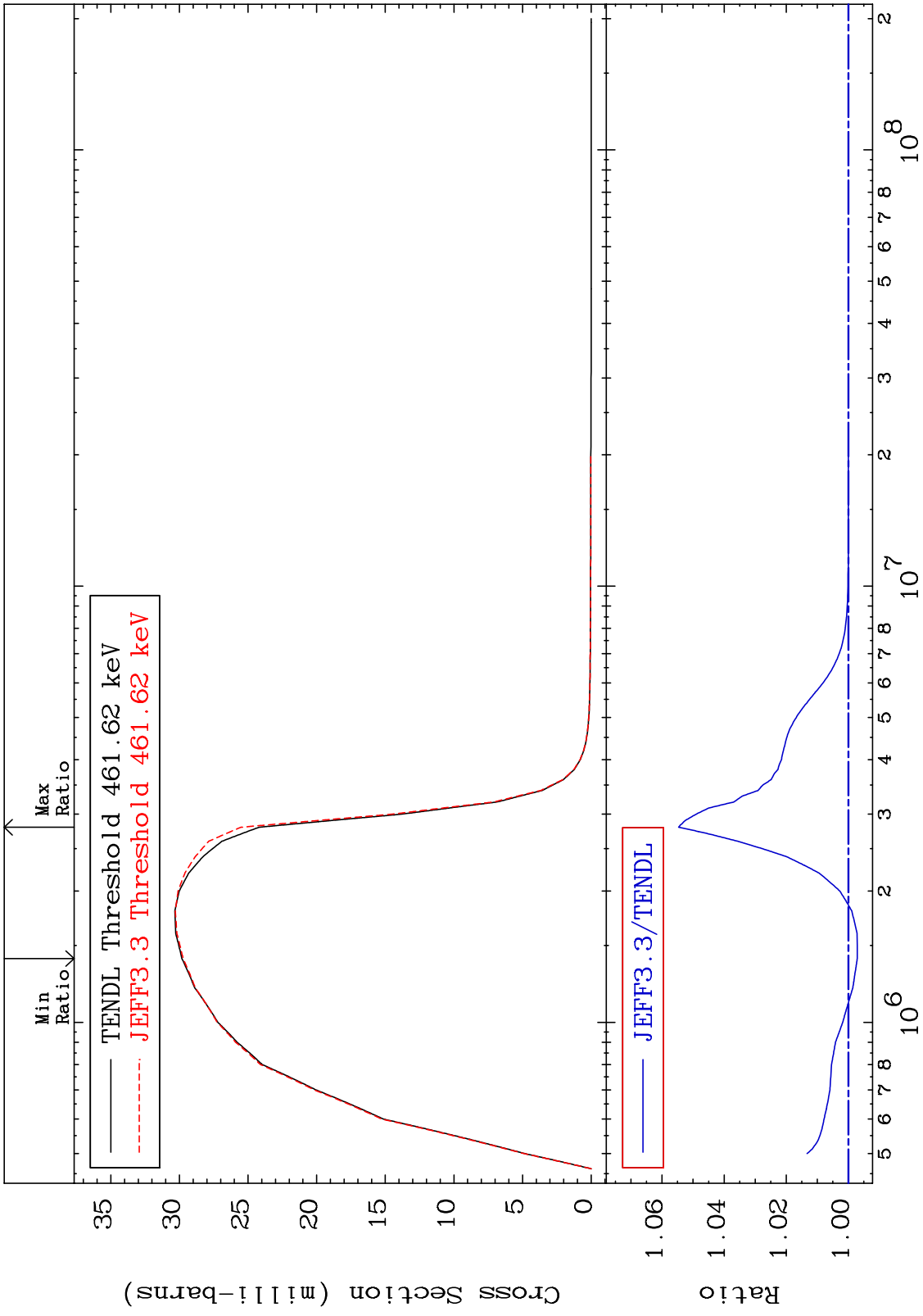
72-Hf-177
-2.675 To 7.314 %



MAT 7234

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

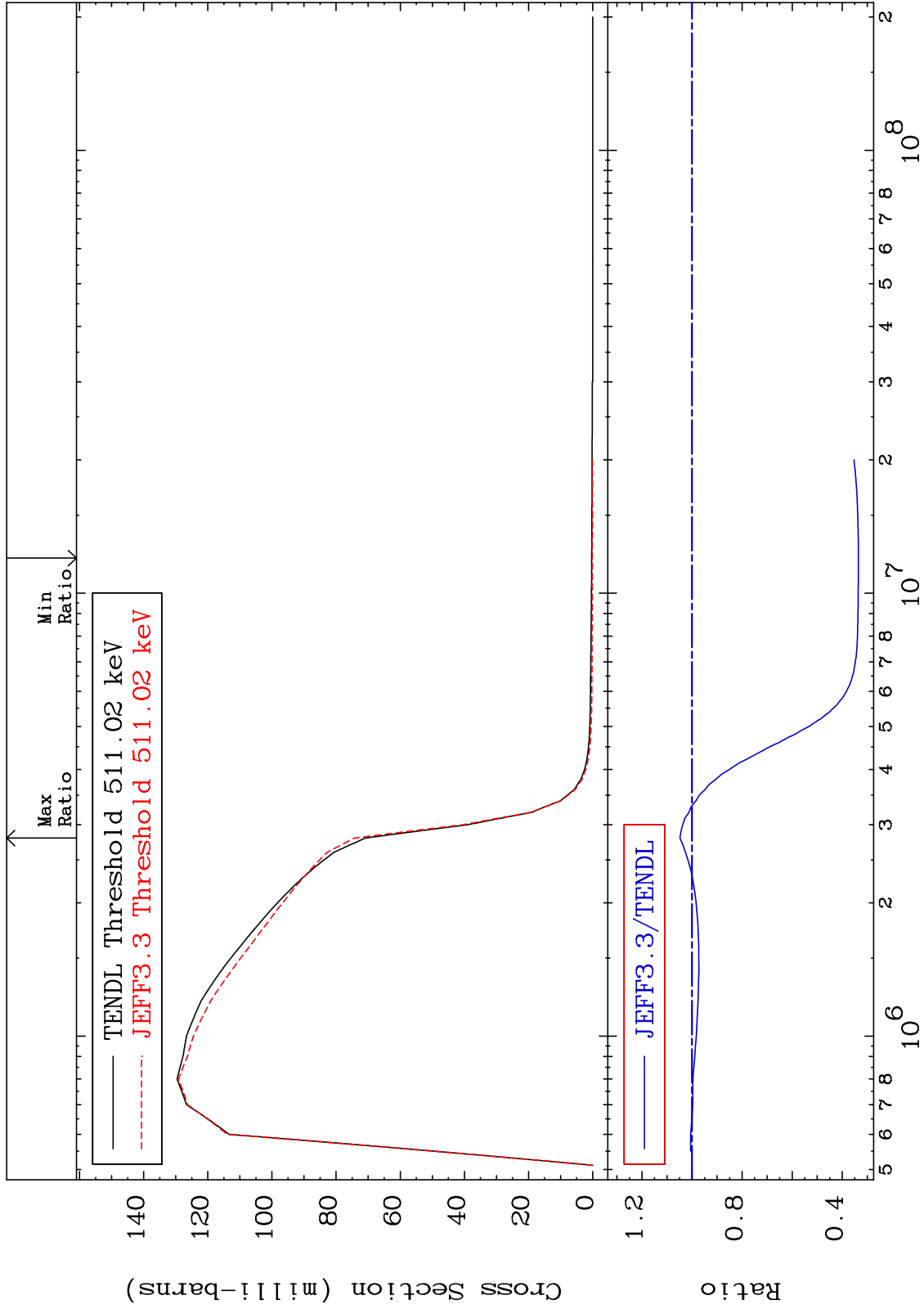
72-Hf-177
-0.288 To 5.466 %



MAT 7234

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

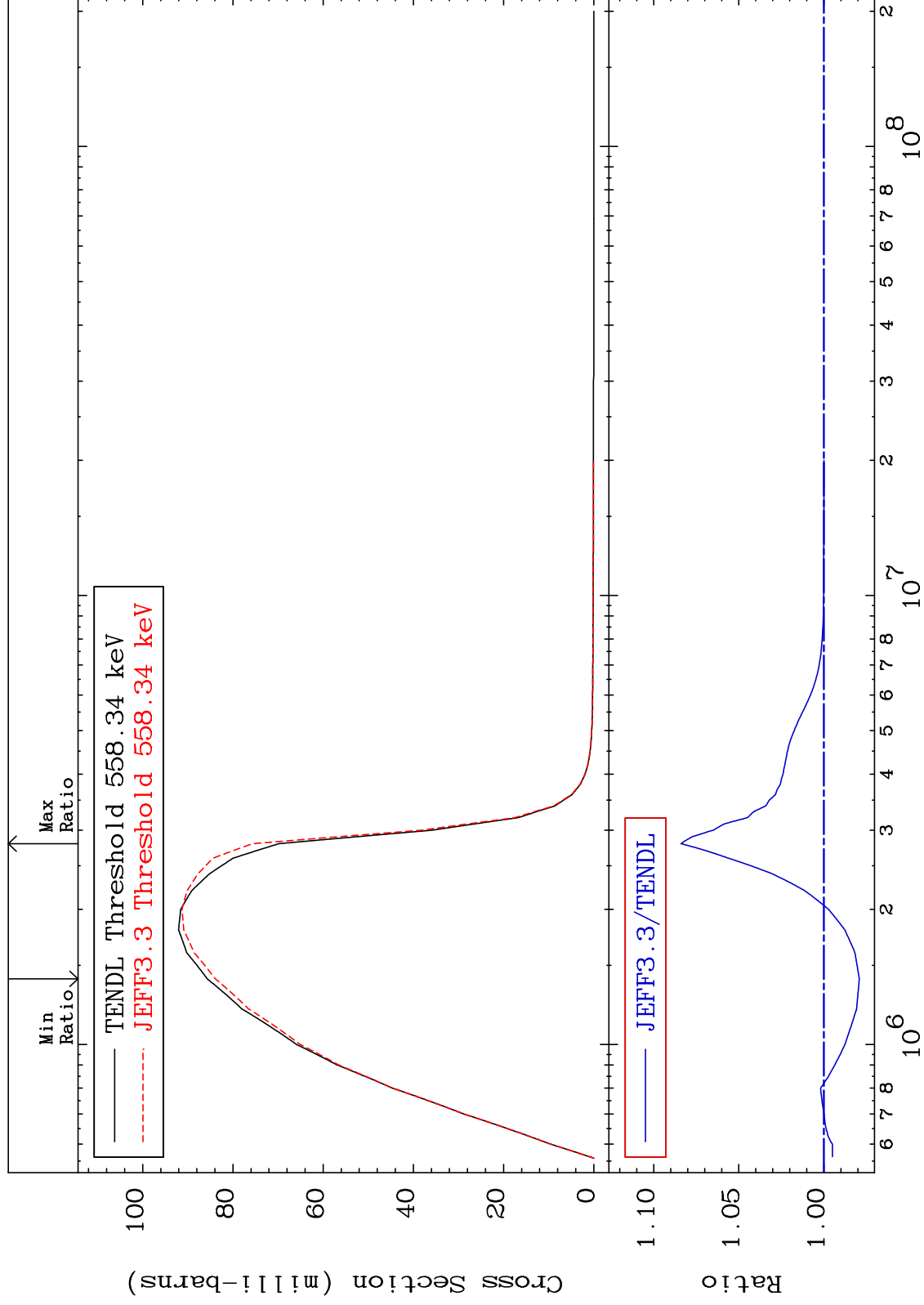
72-Hf-177
-66.46 To 4.805 %



MAT 7234

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

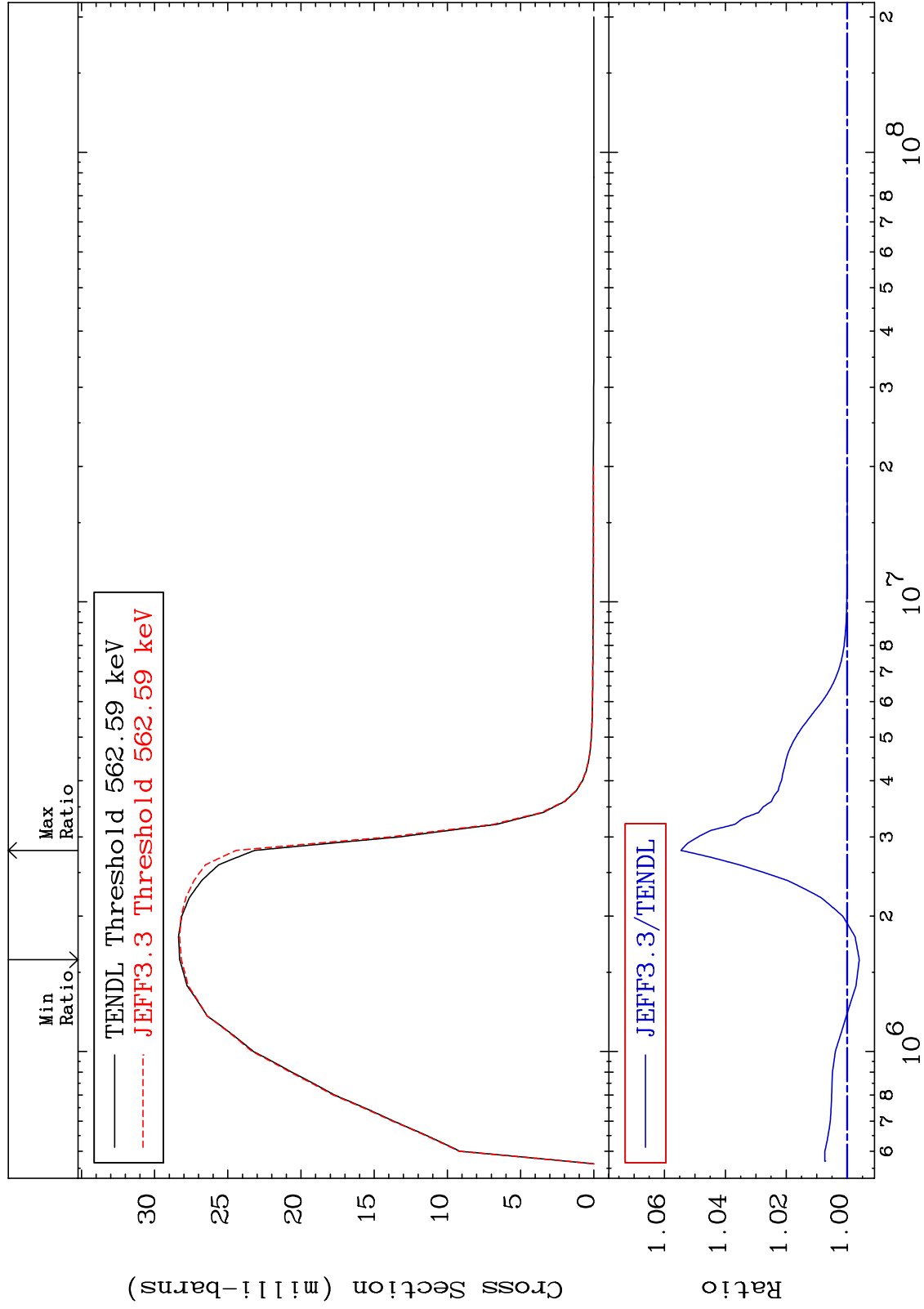
72-Hf-177
-2.084 To 8.391 %



MAT 7234

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

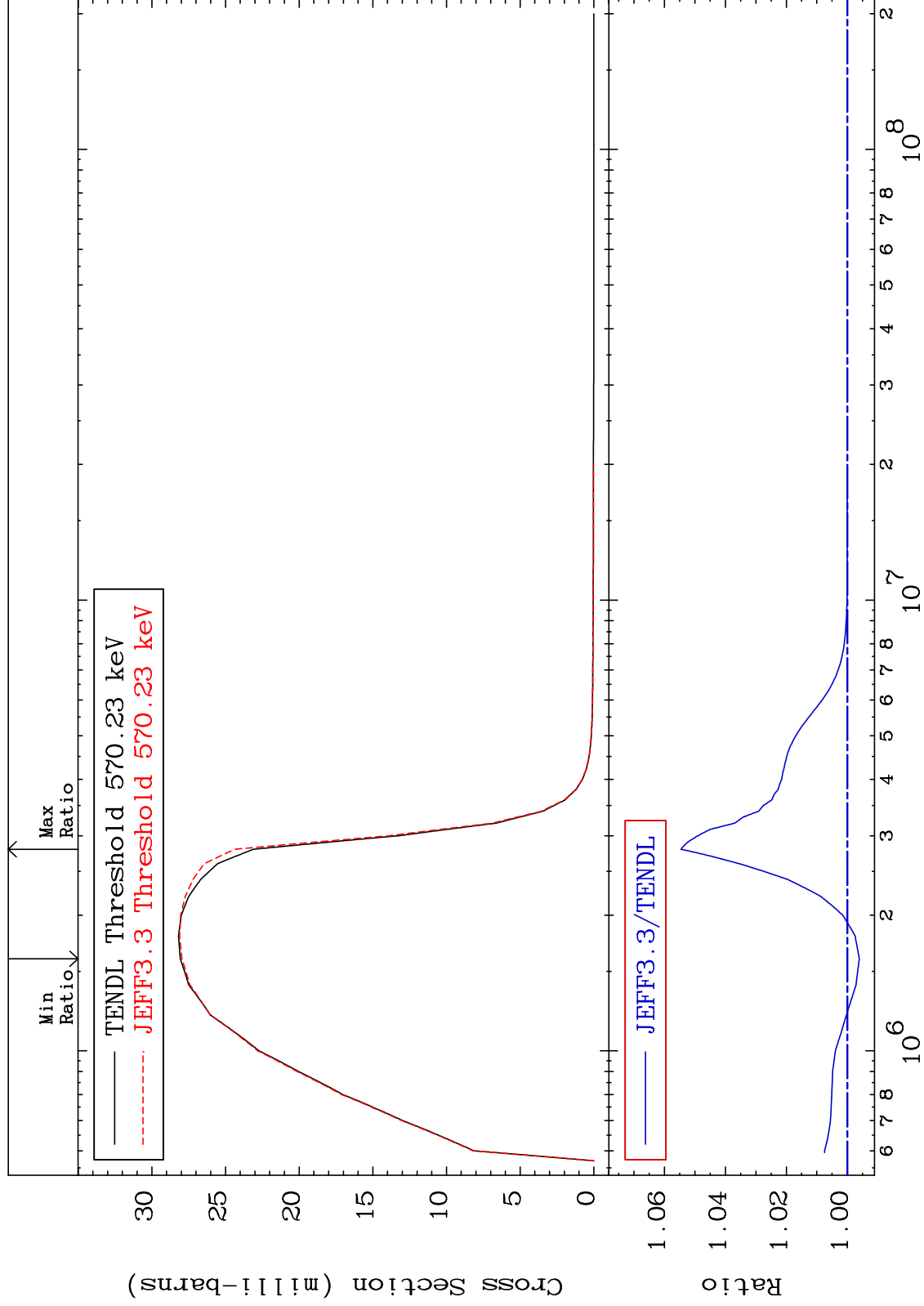
72-Hf-177
-0.397 To 5.456 %



MAT 7234

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

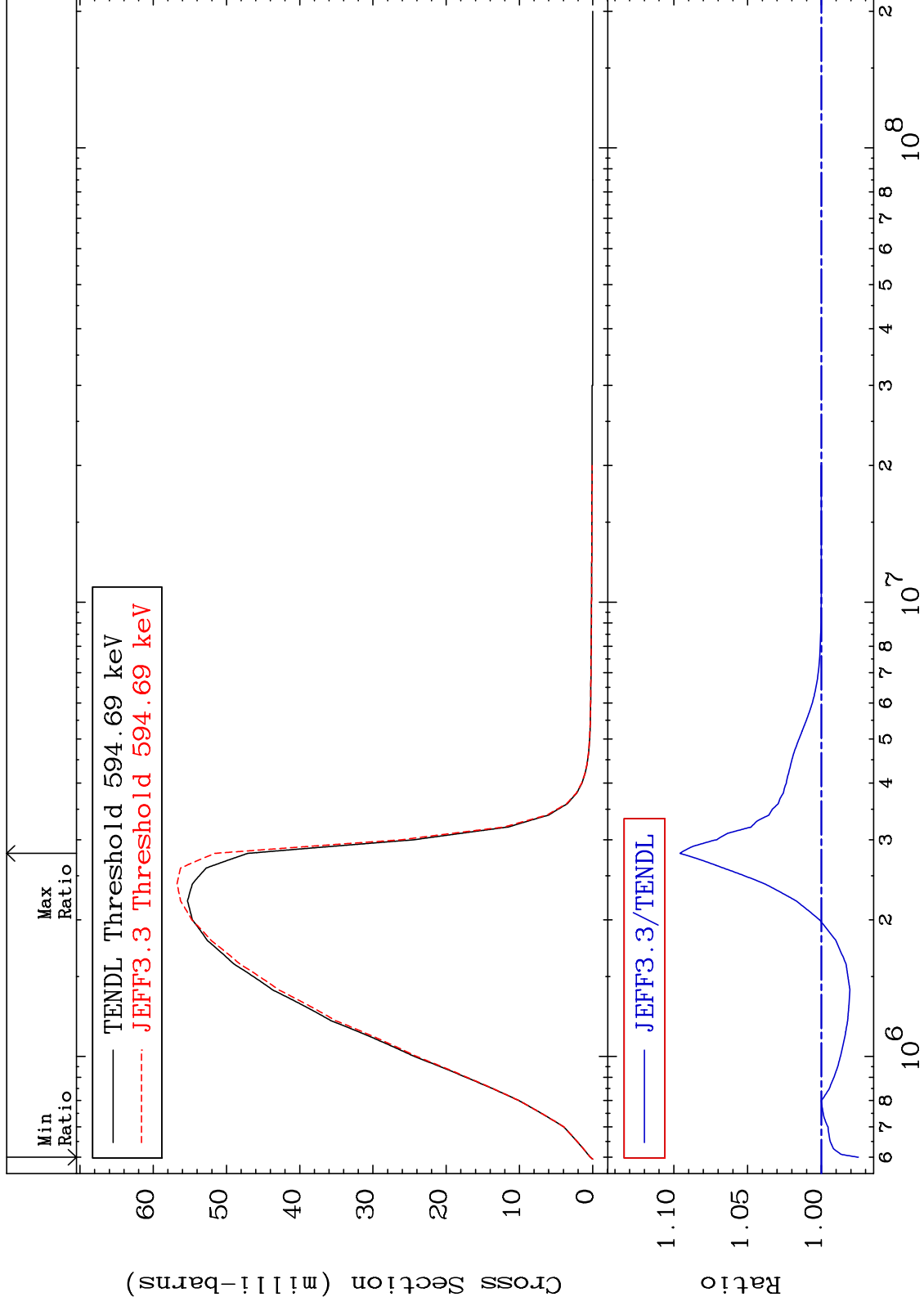
72-Hf-177
-0.393 To 5.455 %



MAT 7234

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

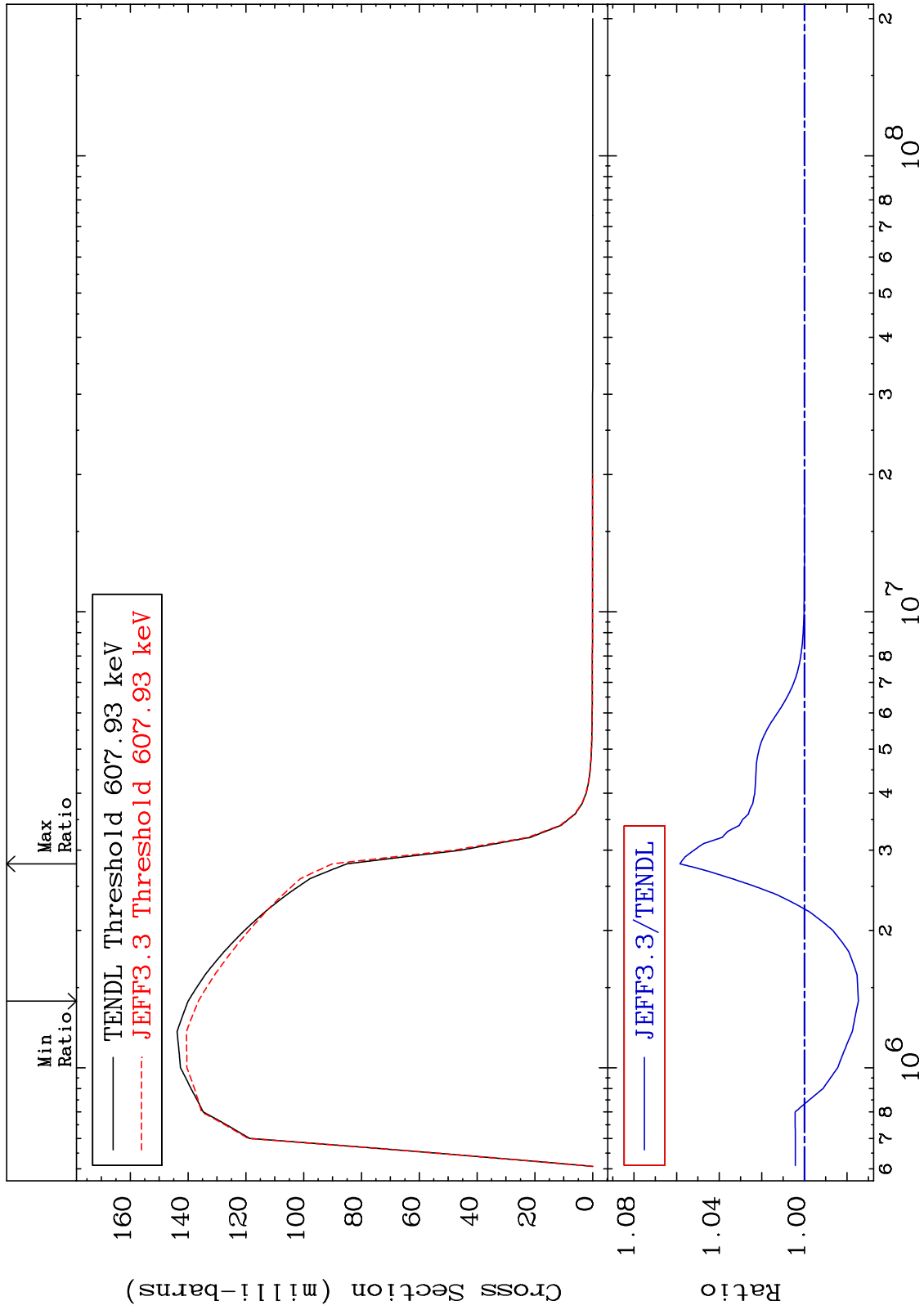
72-Hf-177
-2.511 To 9.583 %



MAT 7234

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

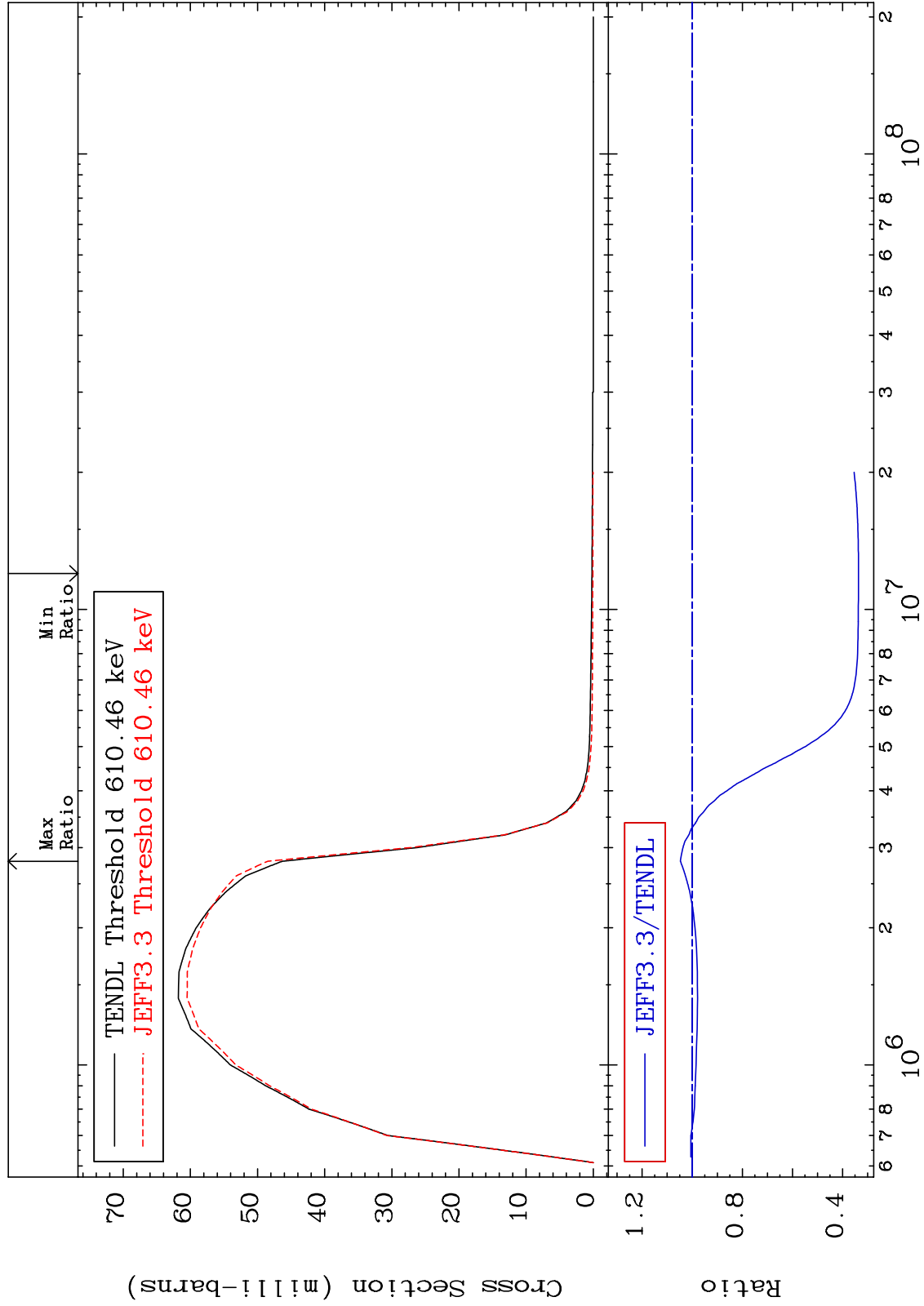
72-Hf-177
-2.536 To 5.840 %



MAT 7234

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

72-Hf-177
-66.37 To 4.702 %



27

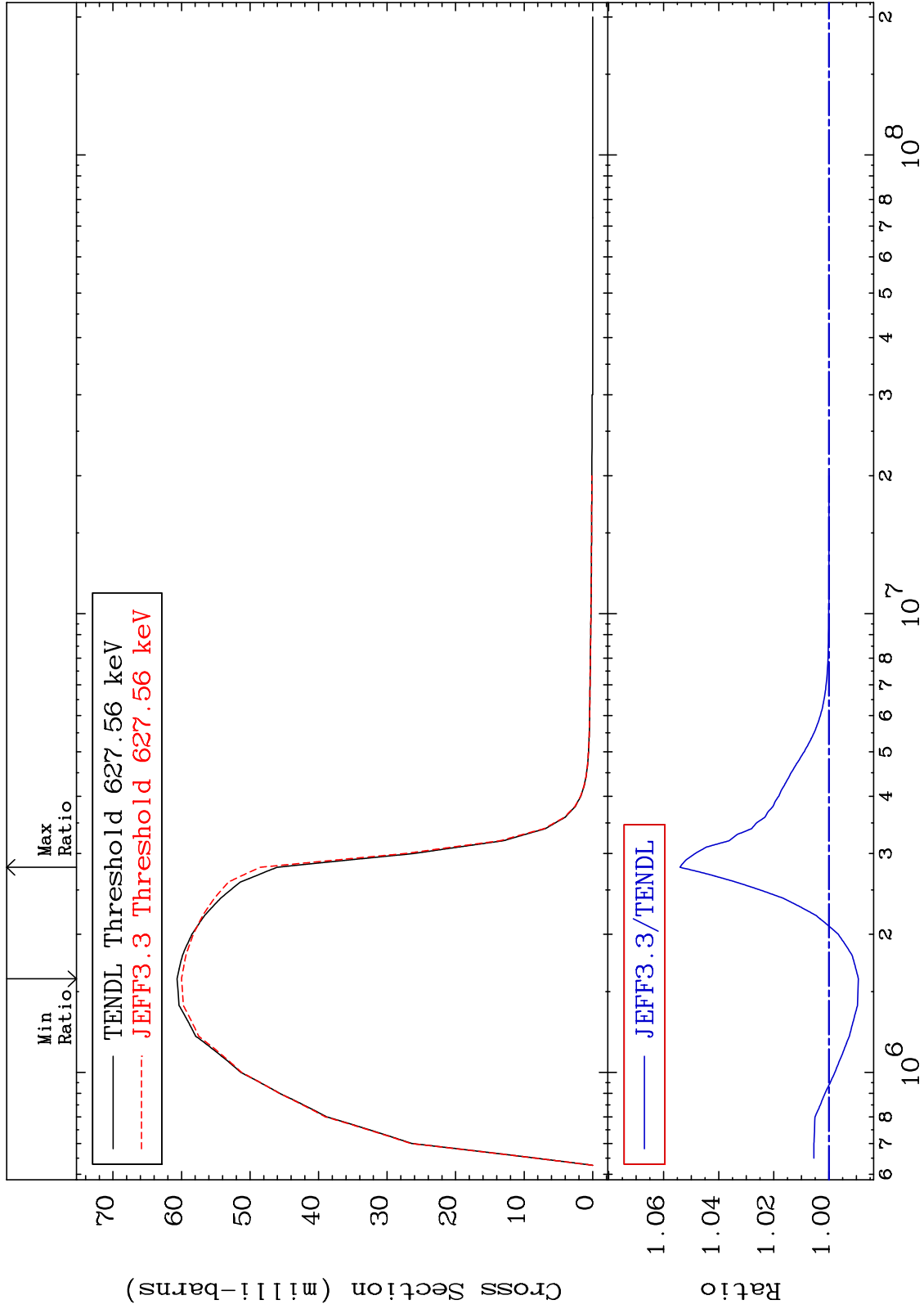
Incident Energy (eV)

72-Hf-177

MAT 7234

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

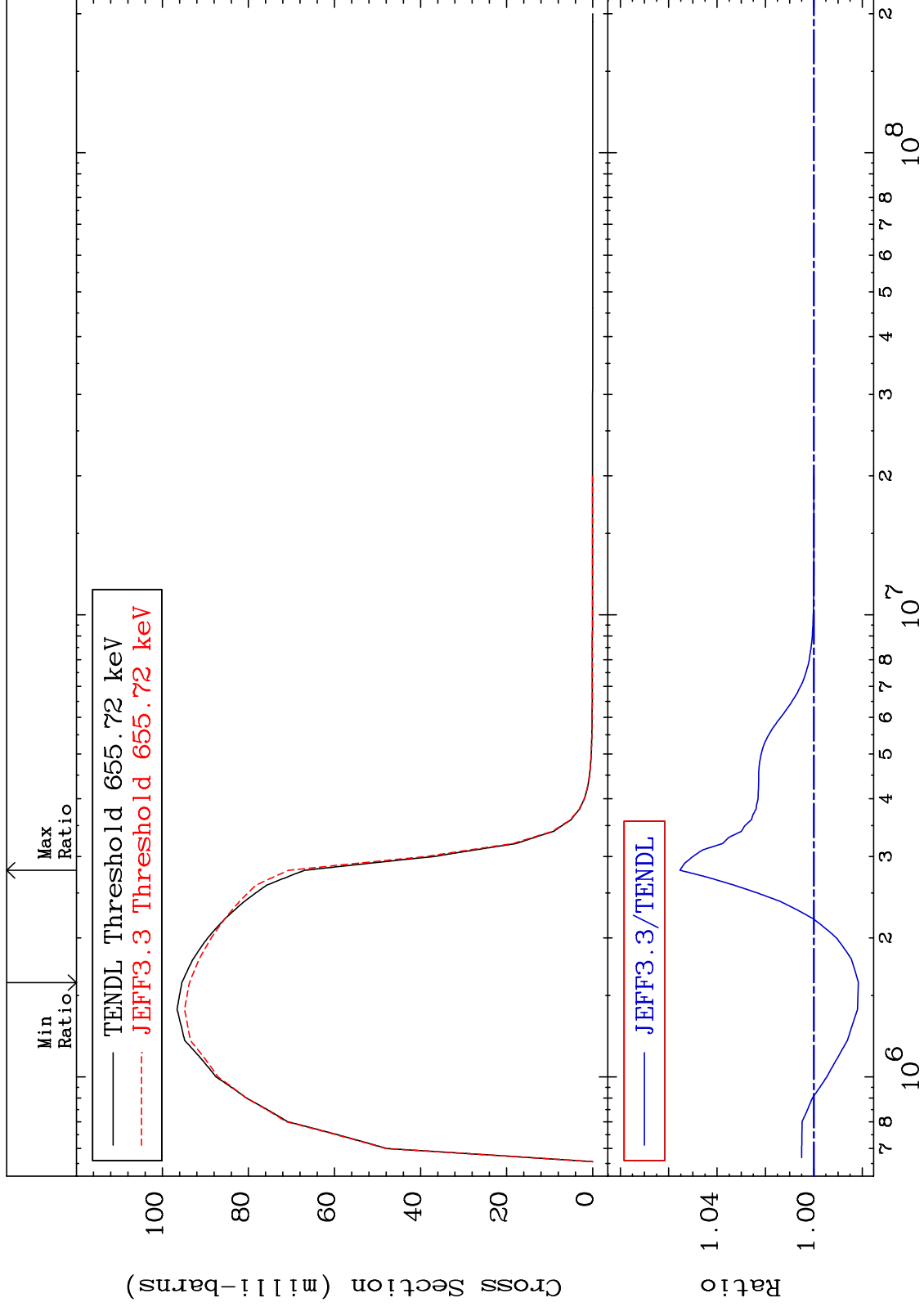
72-Hf-177
-1.072 To 5.406 %



MAT 7234

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

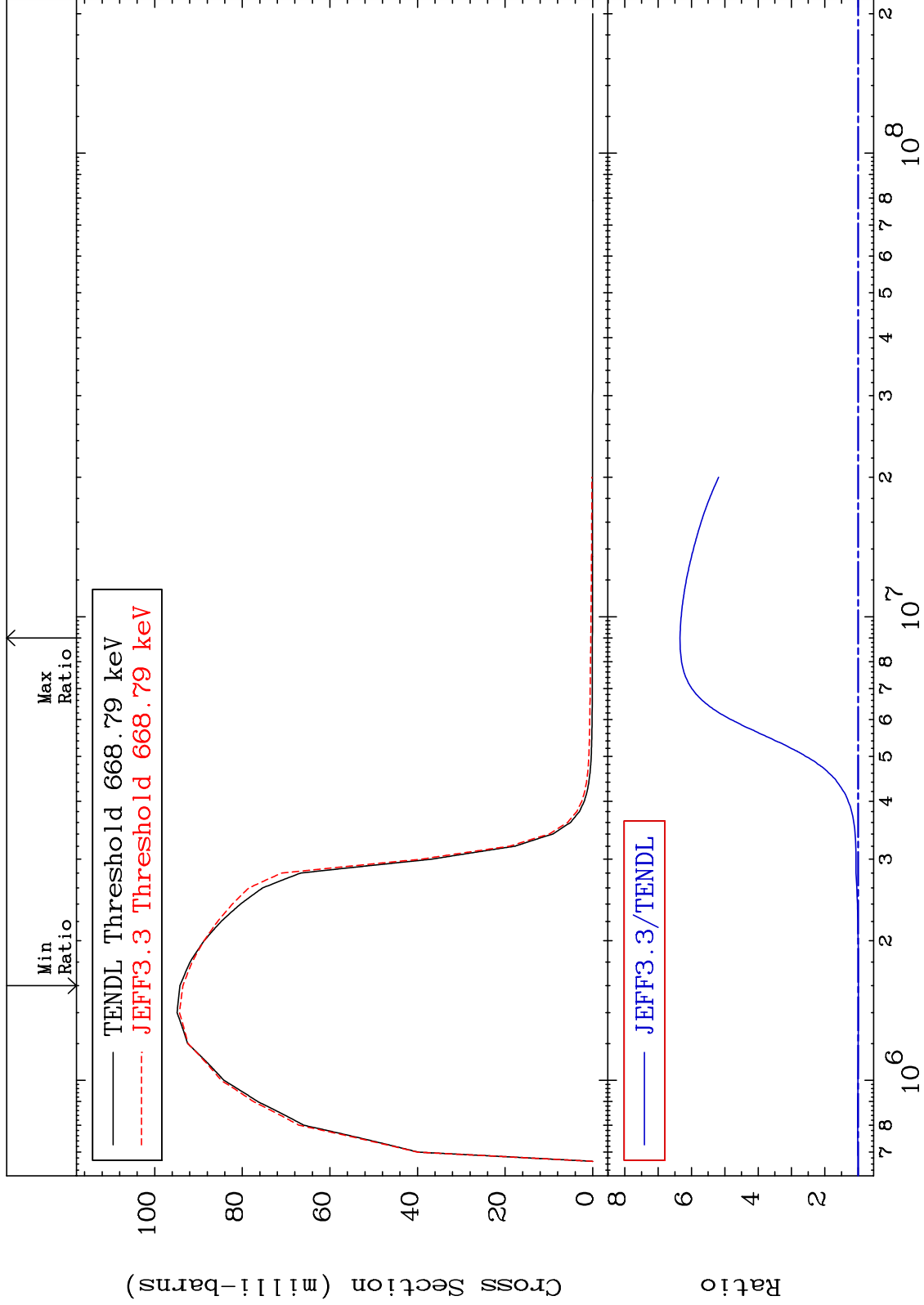
72-Hf-177
-1.844 To 5.531 %



MAT 7234

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

72-Hf-177
-0.716 To 534.5 %



30

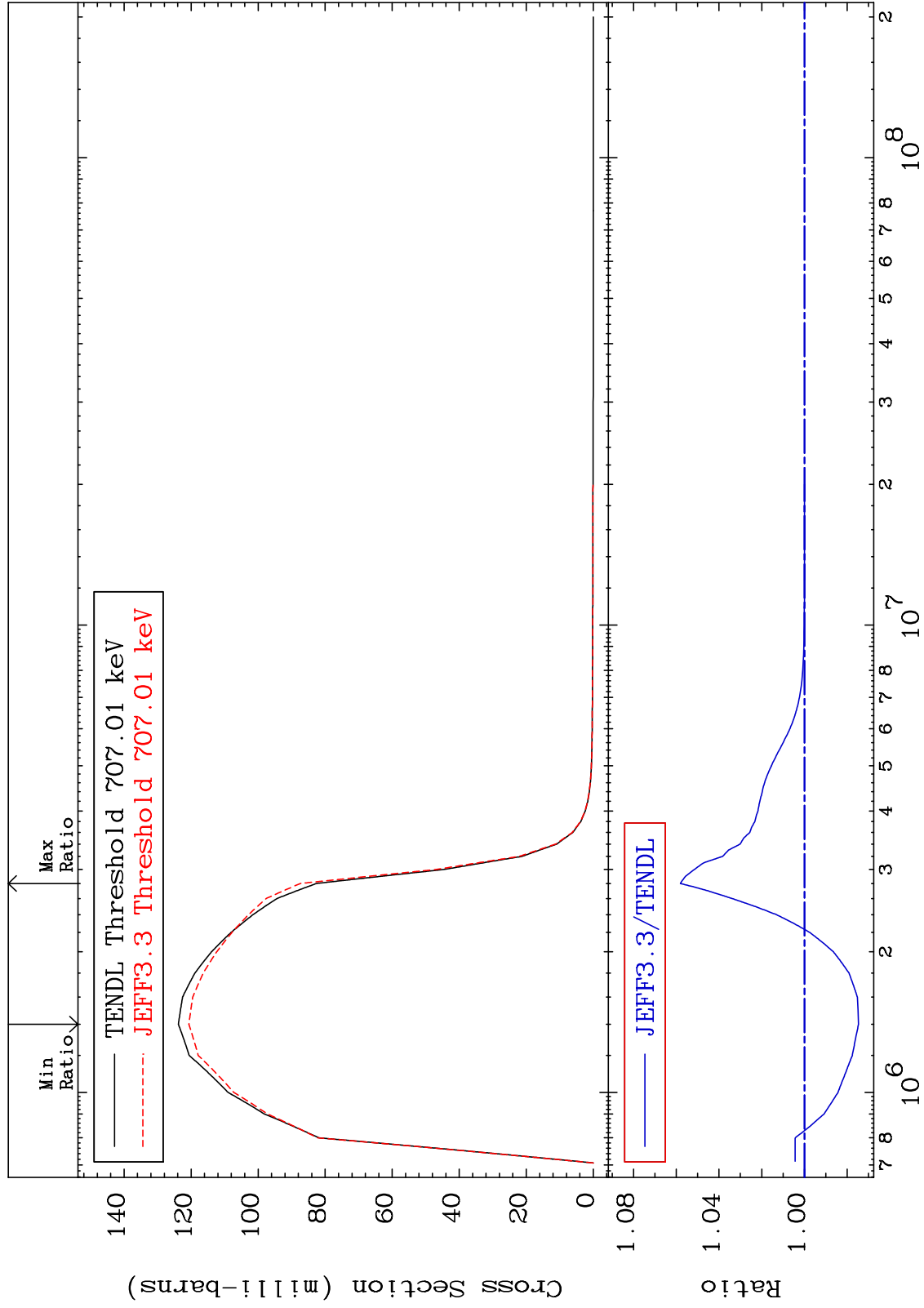
Incident Energy (eV)

72-Hf-177

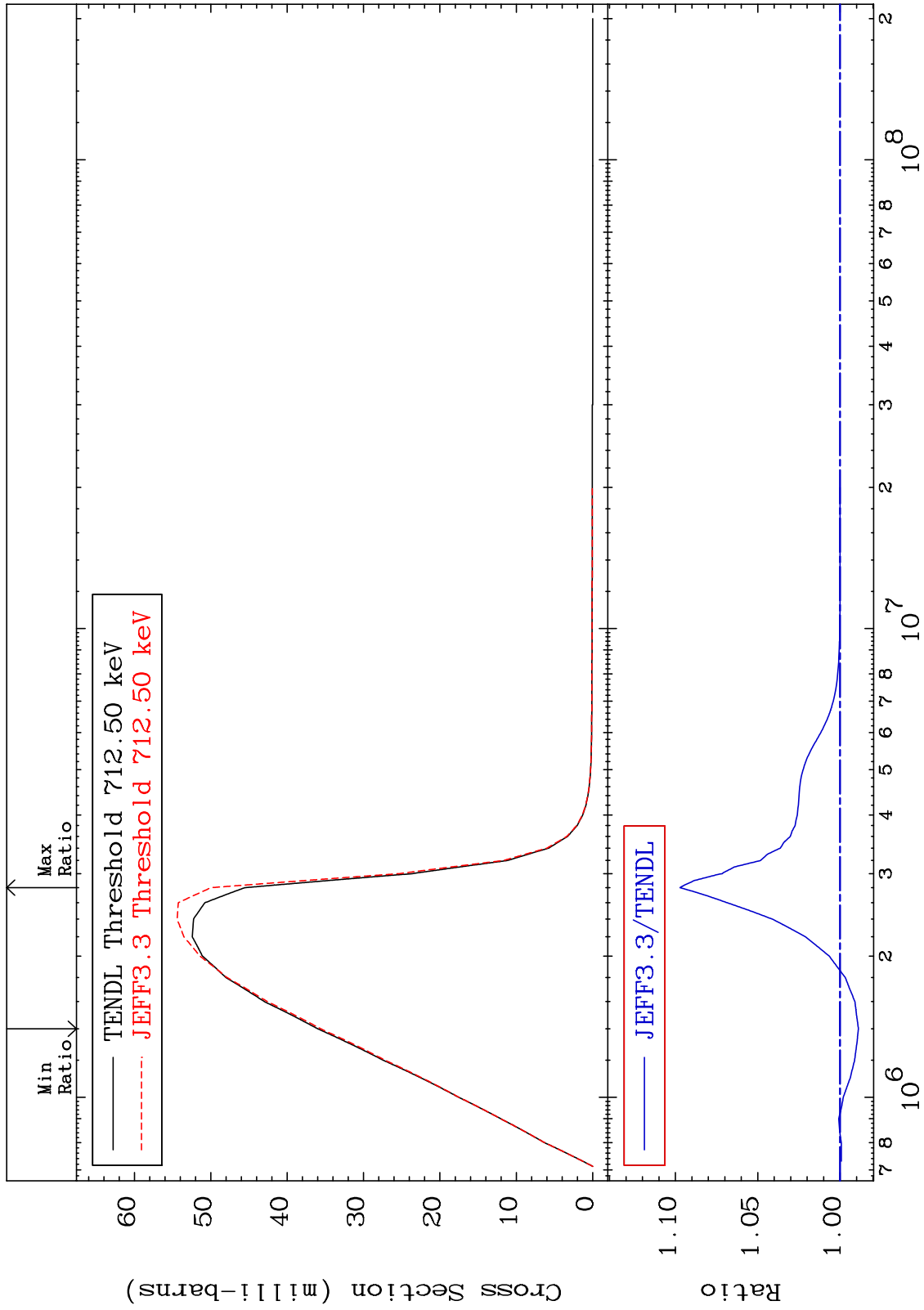
MAT 7234

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

72-Hf-177
-2.531 To 5.803 %



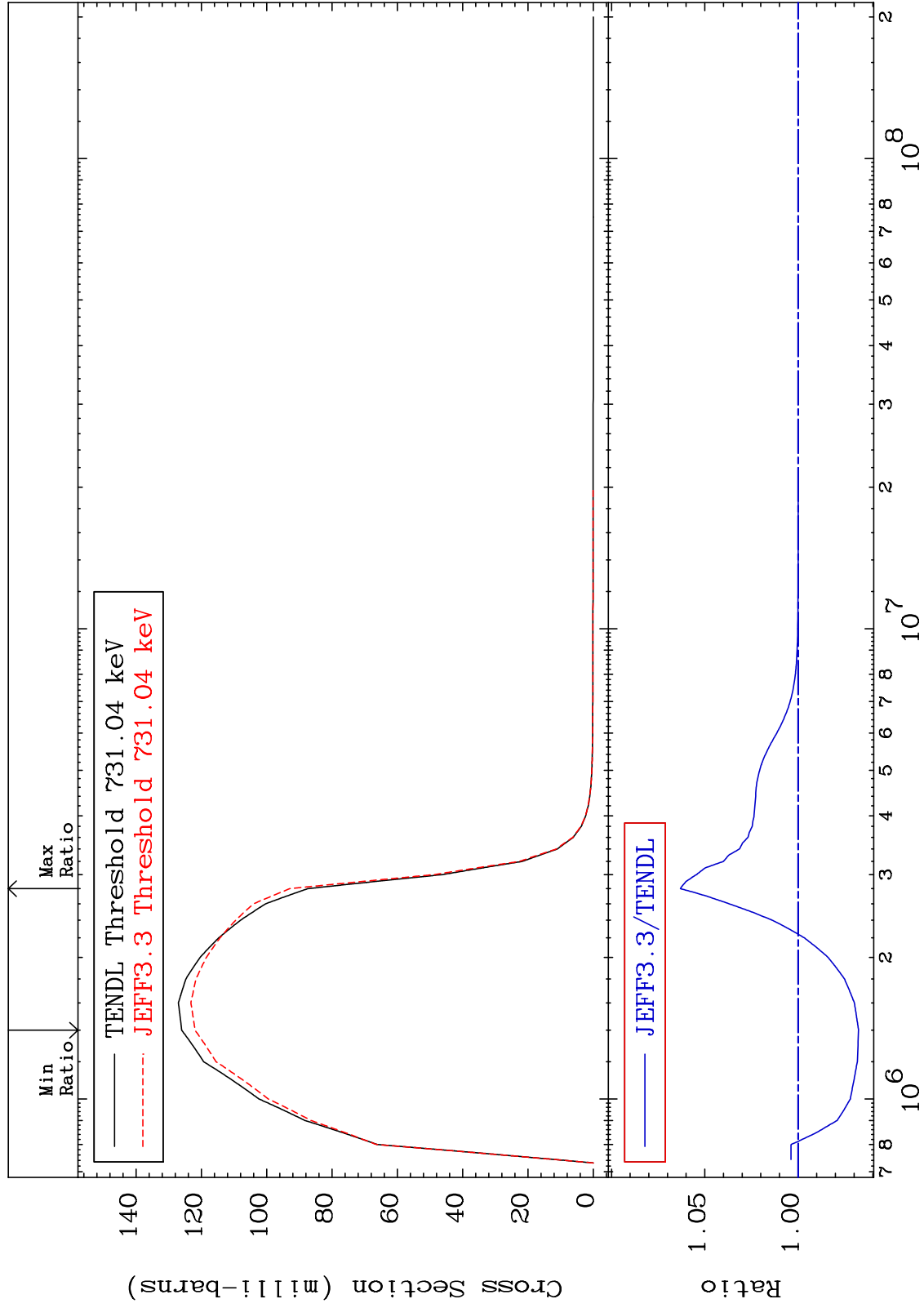
MAT 7234 MT= 70 (n,n') Level
Cross Section 72-Hf-177
-1.114 To 9.722 %



MAT 7234

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

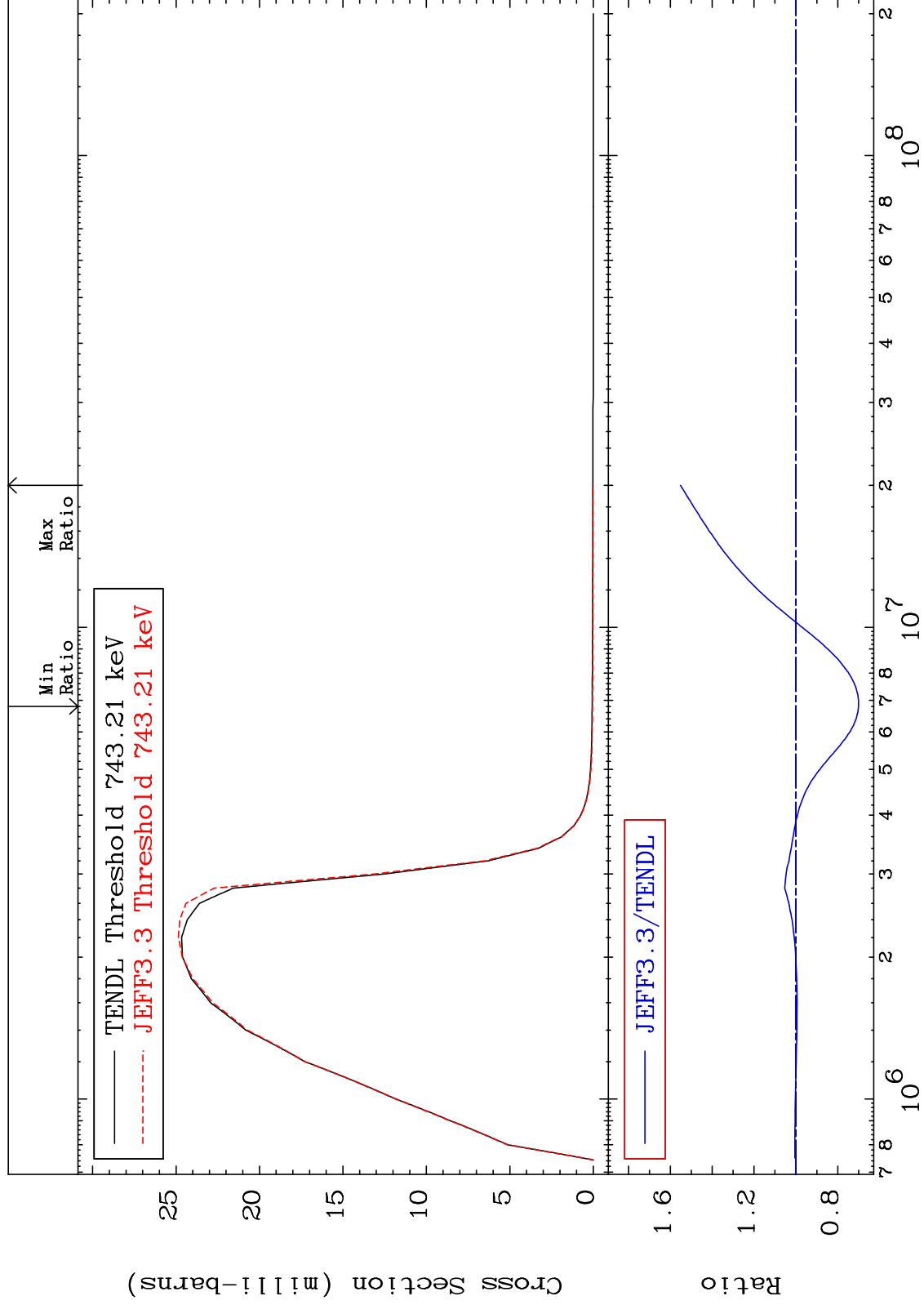
72-Hf-177
-3.238 To 6.305 %



MAT 7234

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

72-Hf-177
-29.94 To 55.19 %



34

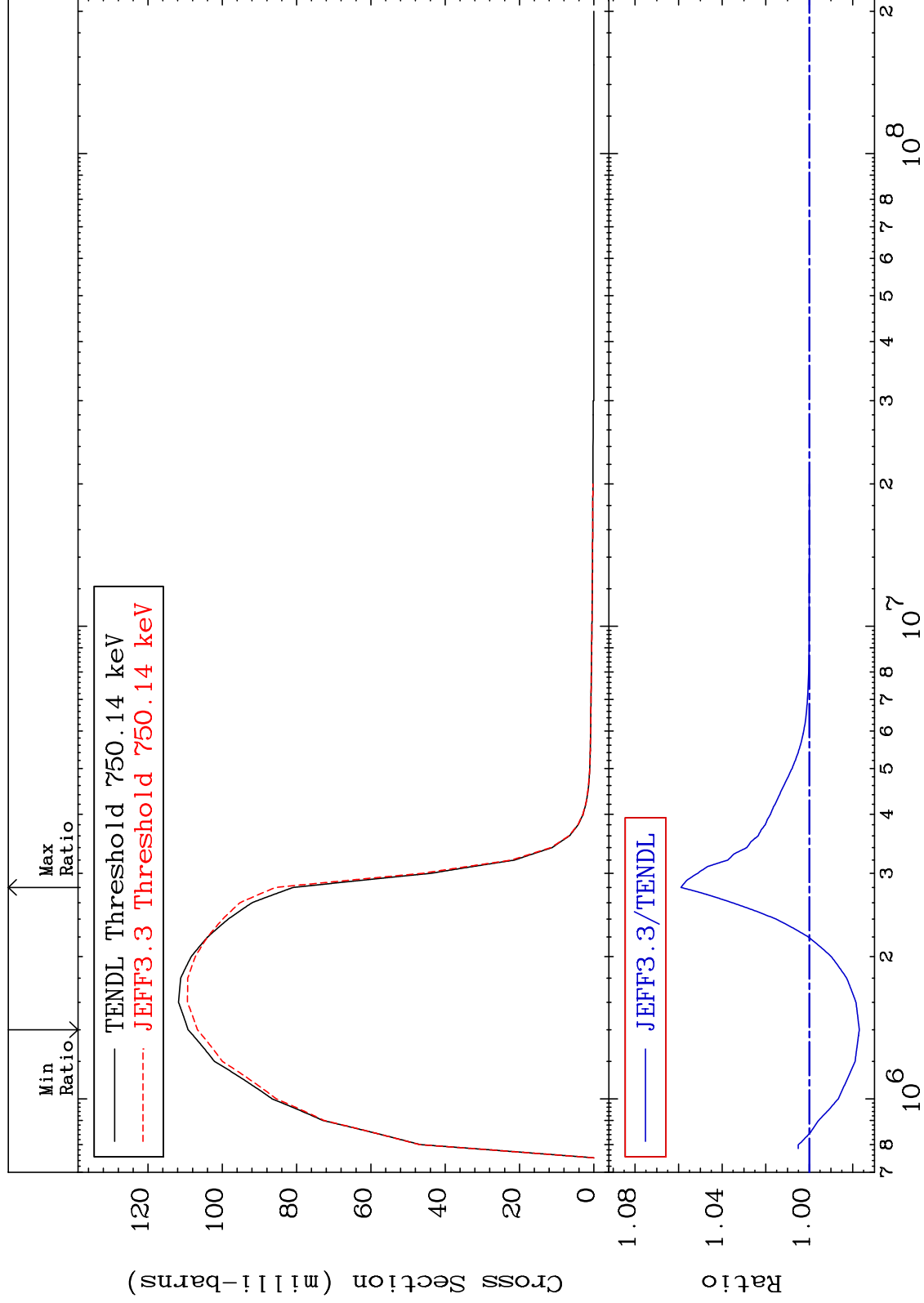
Incident Energy (eV)

72-Hf-177

MAT 7234

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

72-Hf-177
-2.298 To 5.883 %



35

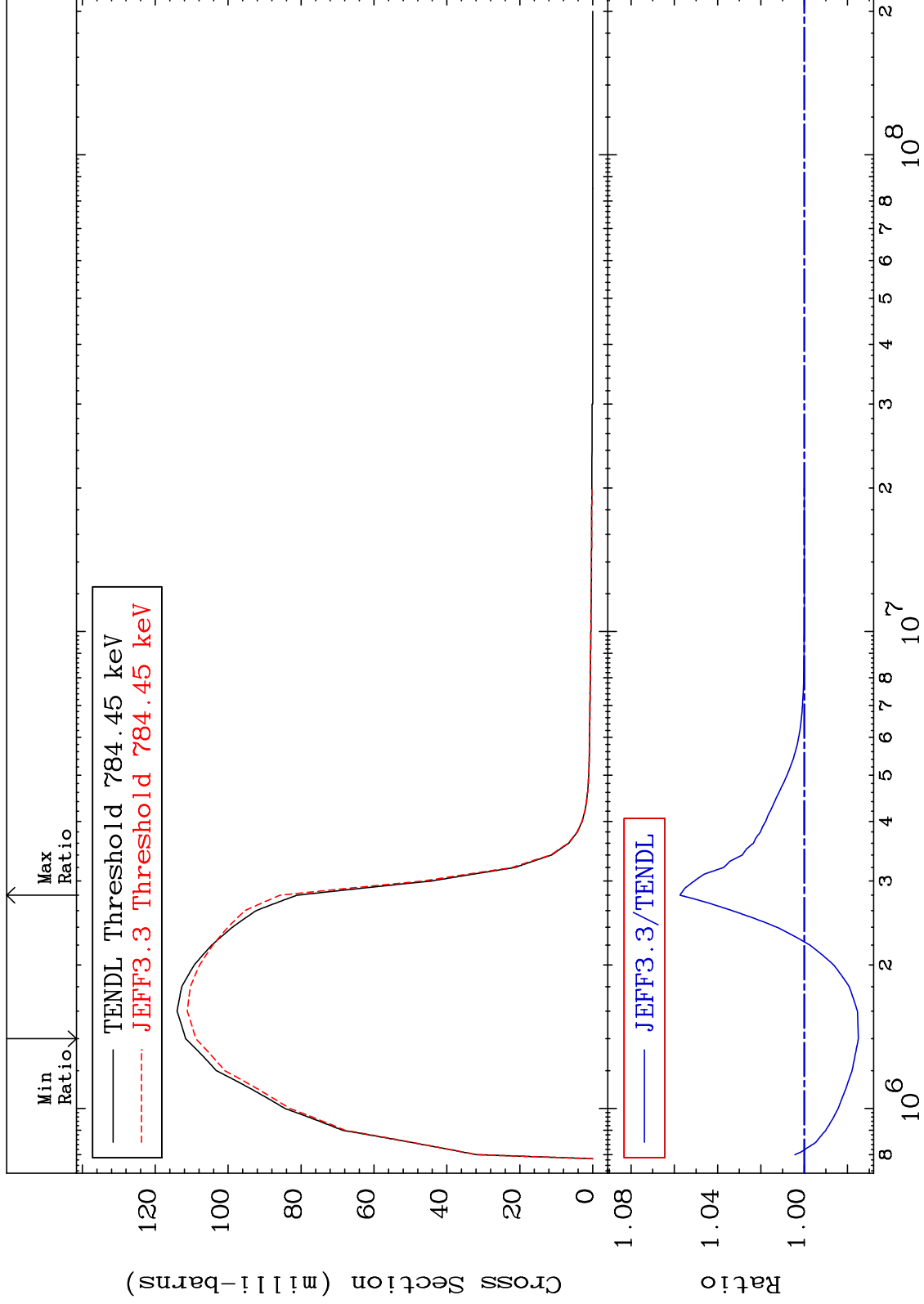
Incident Energy (eV)

72-Hf-177

MAT 7234

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

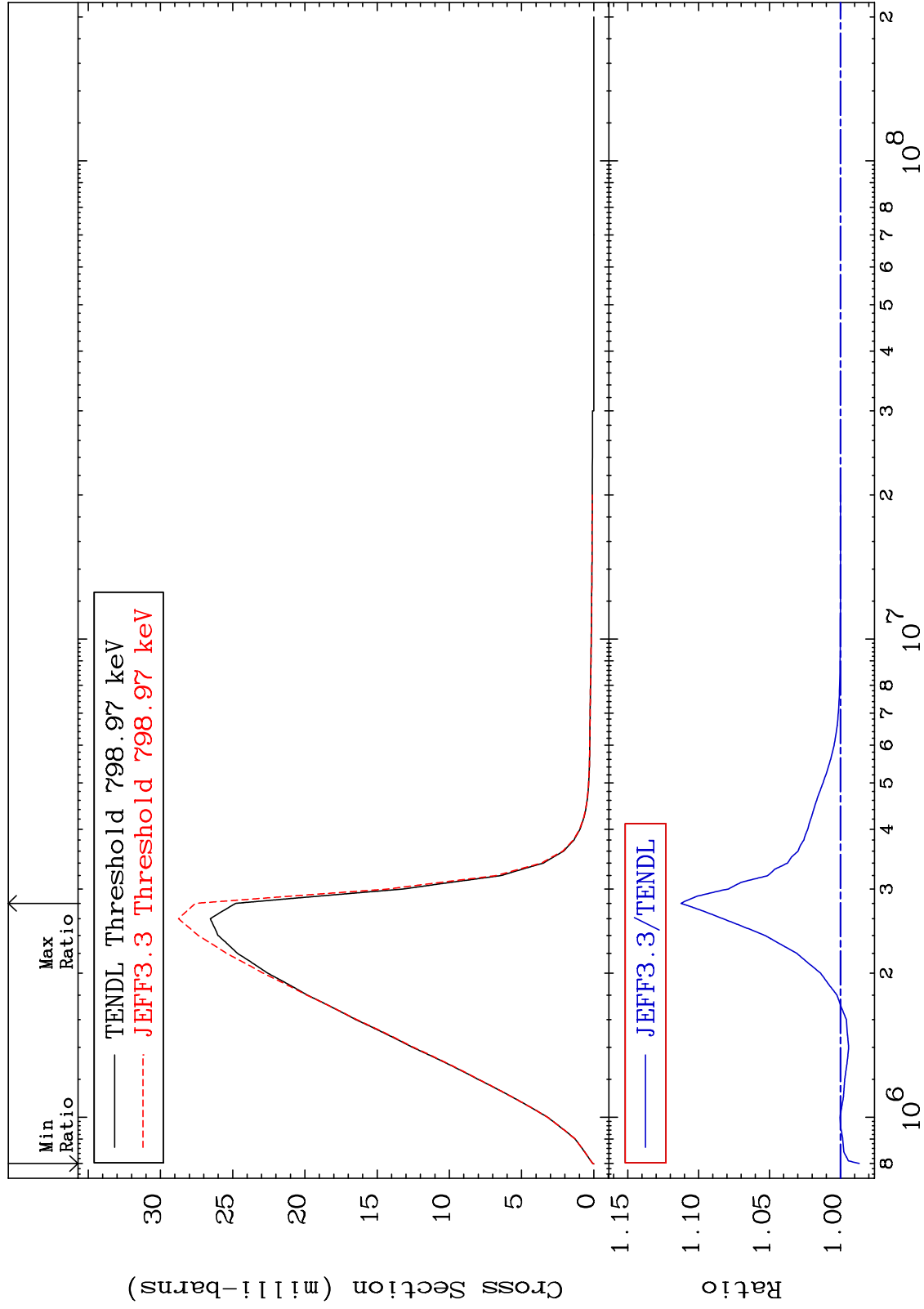
72-Hf-177
-2.502 To 5.738 %



MAT 7234

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

72-Hf-177
-1.331 To 11.24 %



37

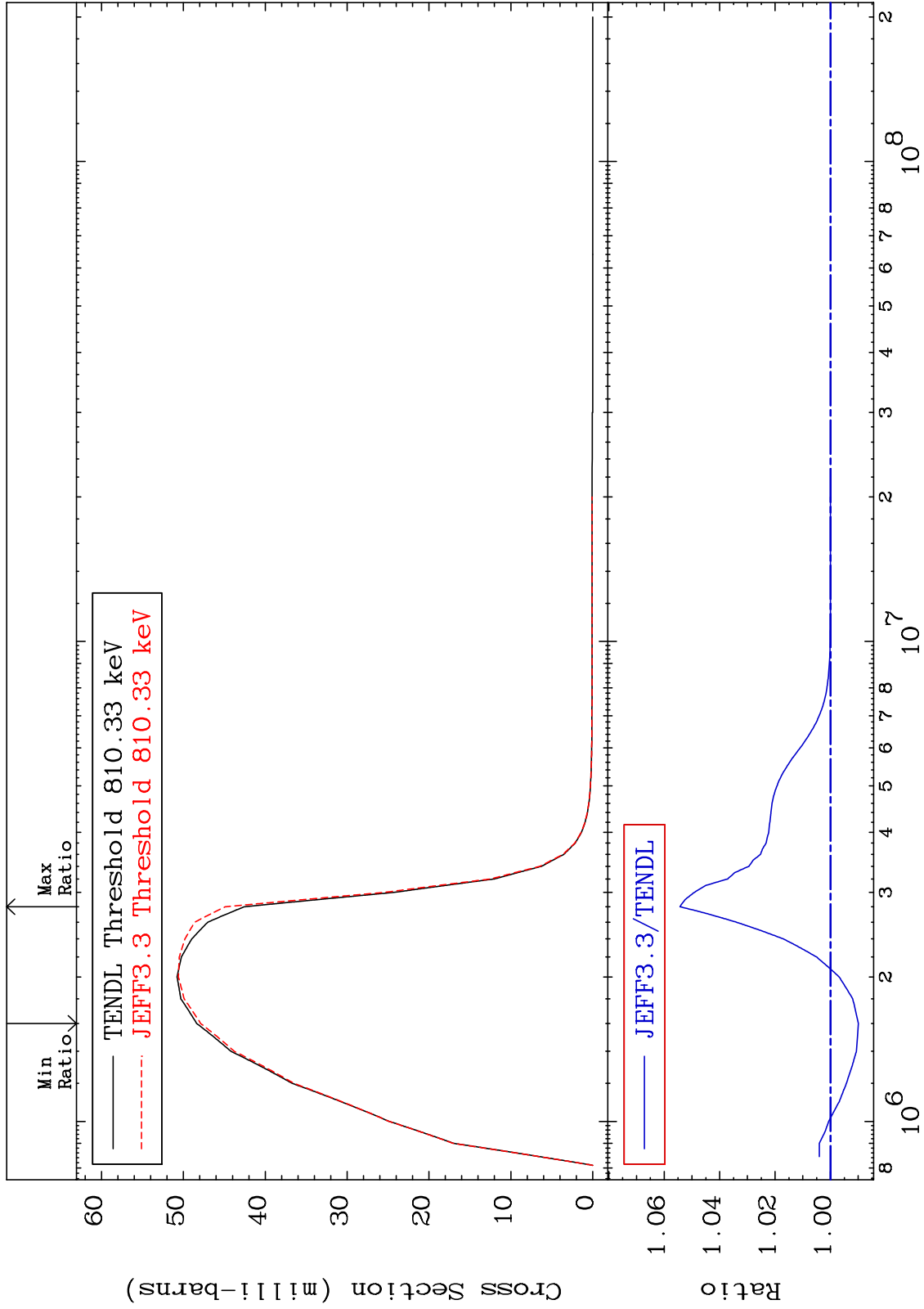
Incident Energy (eV)

72-Hf-177

MAT 7234

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

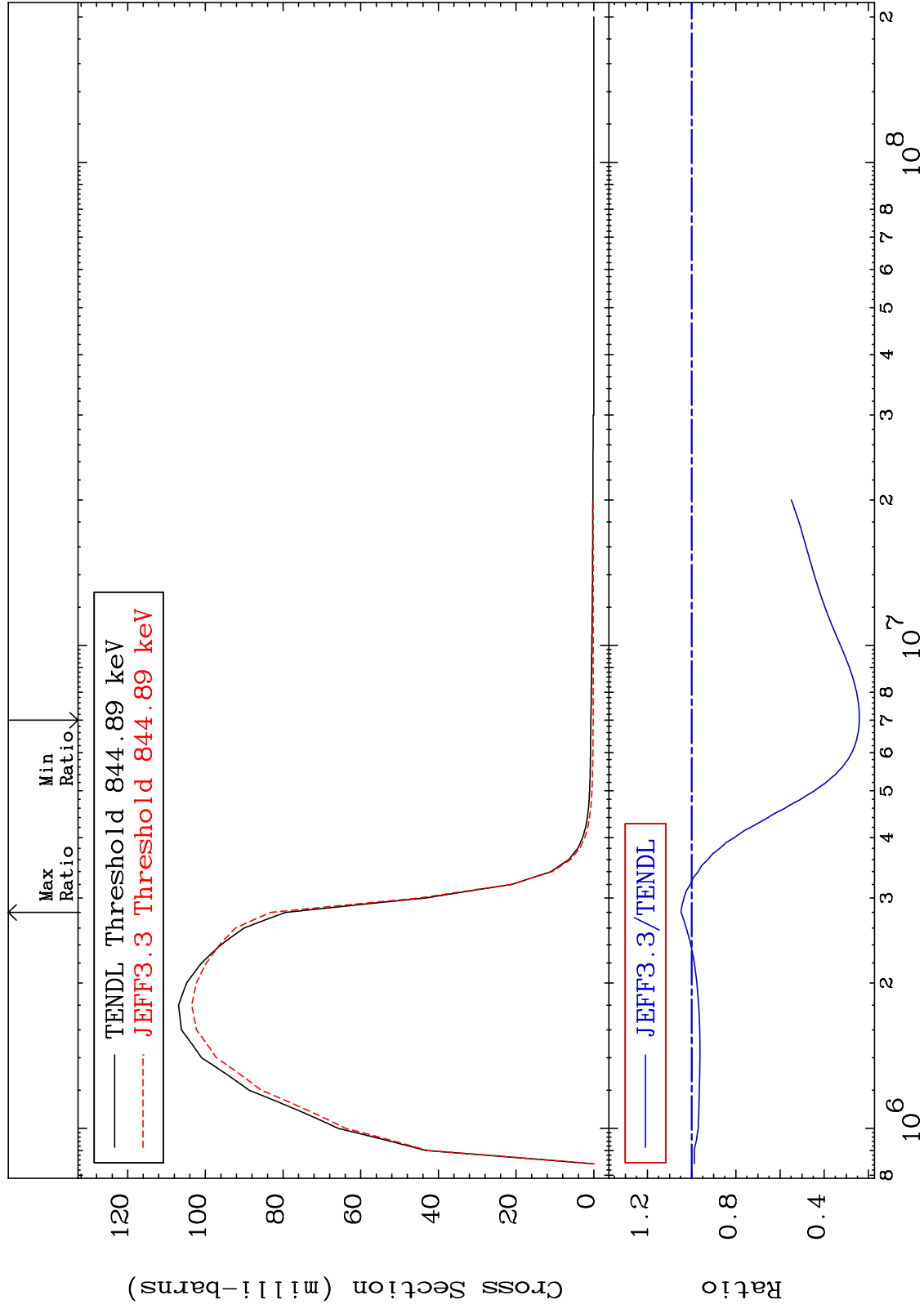
72-Hf-177
-1.007 To 5.430 %



MAT 7234

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

72-Hf-177
-75.85 To 4.795 %



39

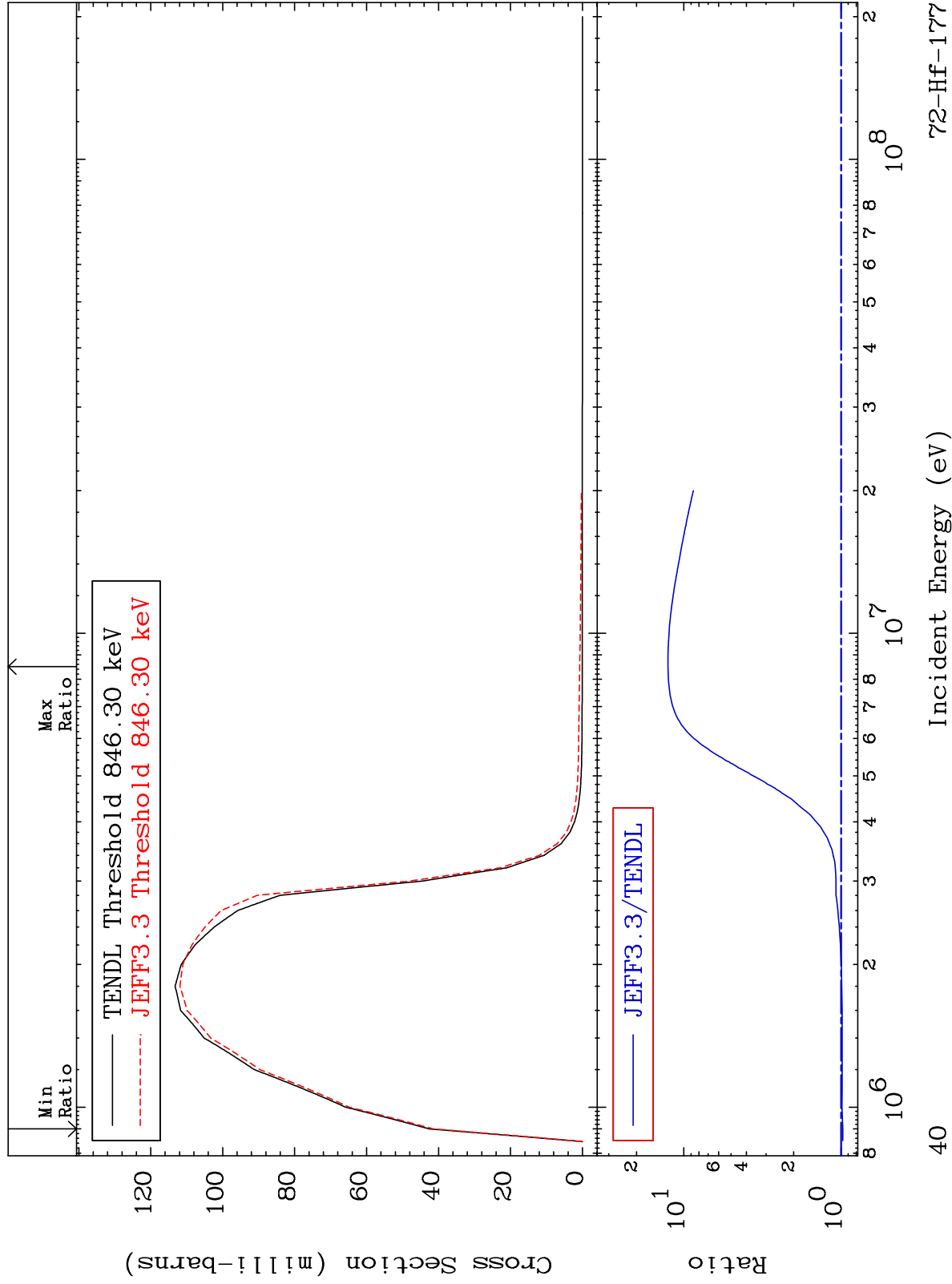
Incident Energy (eV)

72-Hf-177

MAT 7234

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

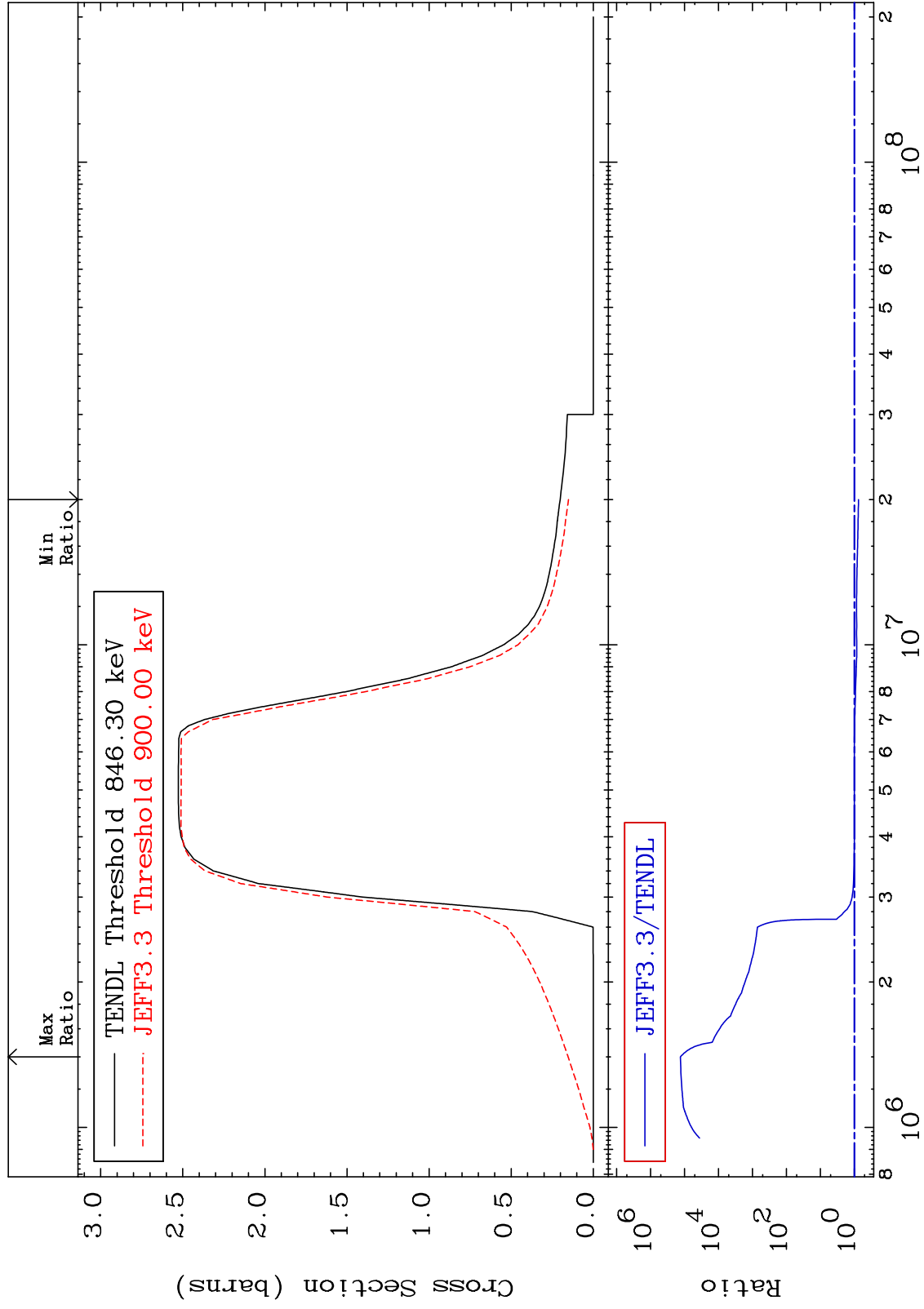
72-Hf-177
-2.662 To 1160. %



MAT 7234

(n, n') Continuum
Cross Section

⁷²Hf-177
-25.08 To 9999. %



41

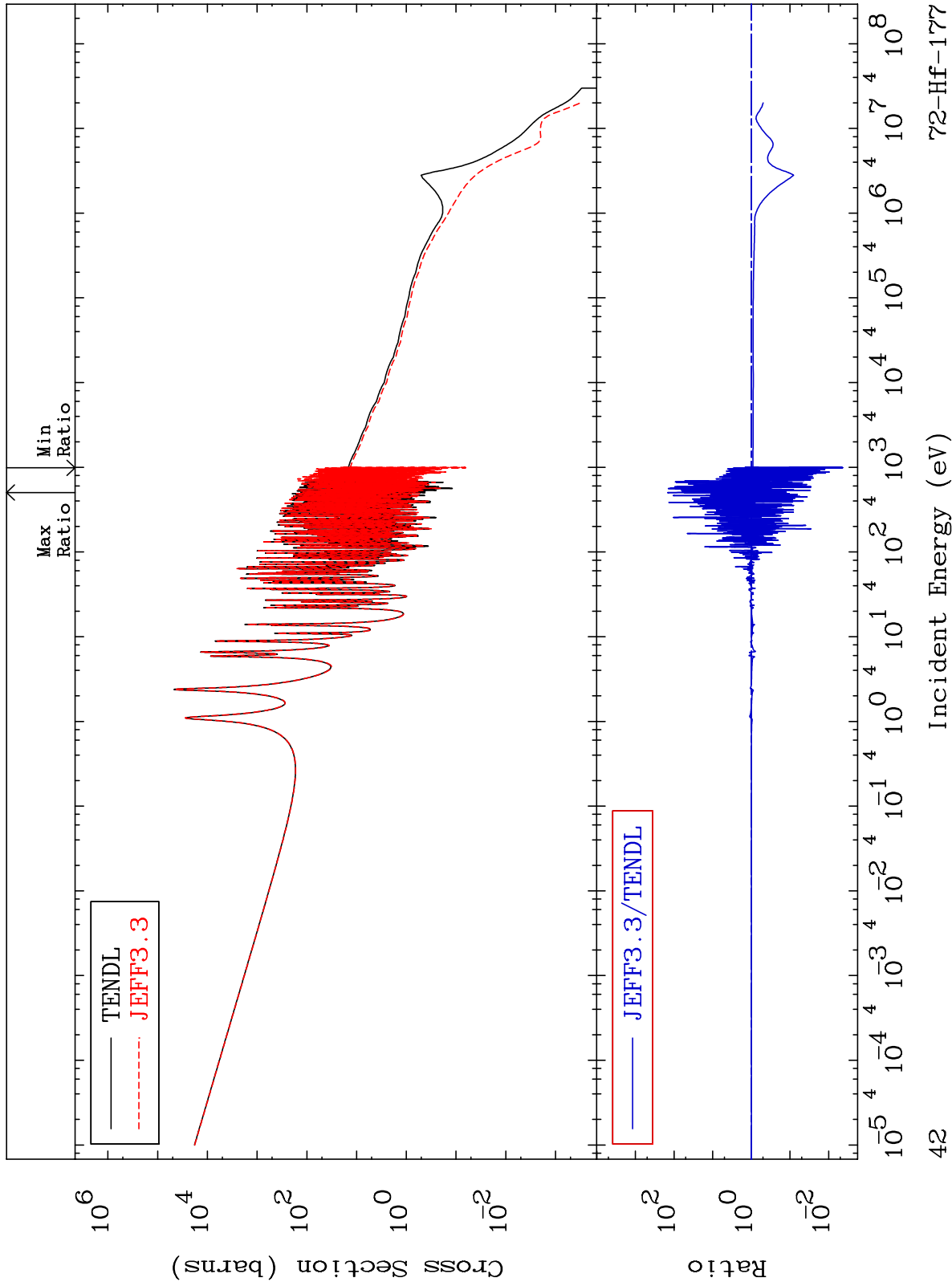
Incident Energy (eV)

⁷²Hf-177

MAT 7234

(n, γ)
Cross Section

72-Hf-177
-99.57 To 9999. %



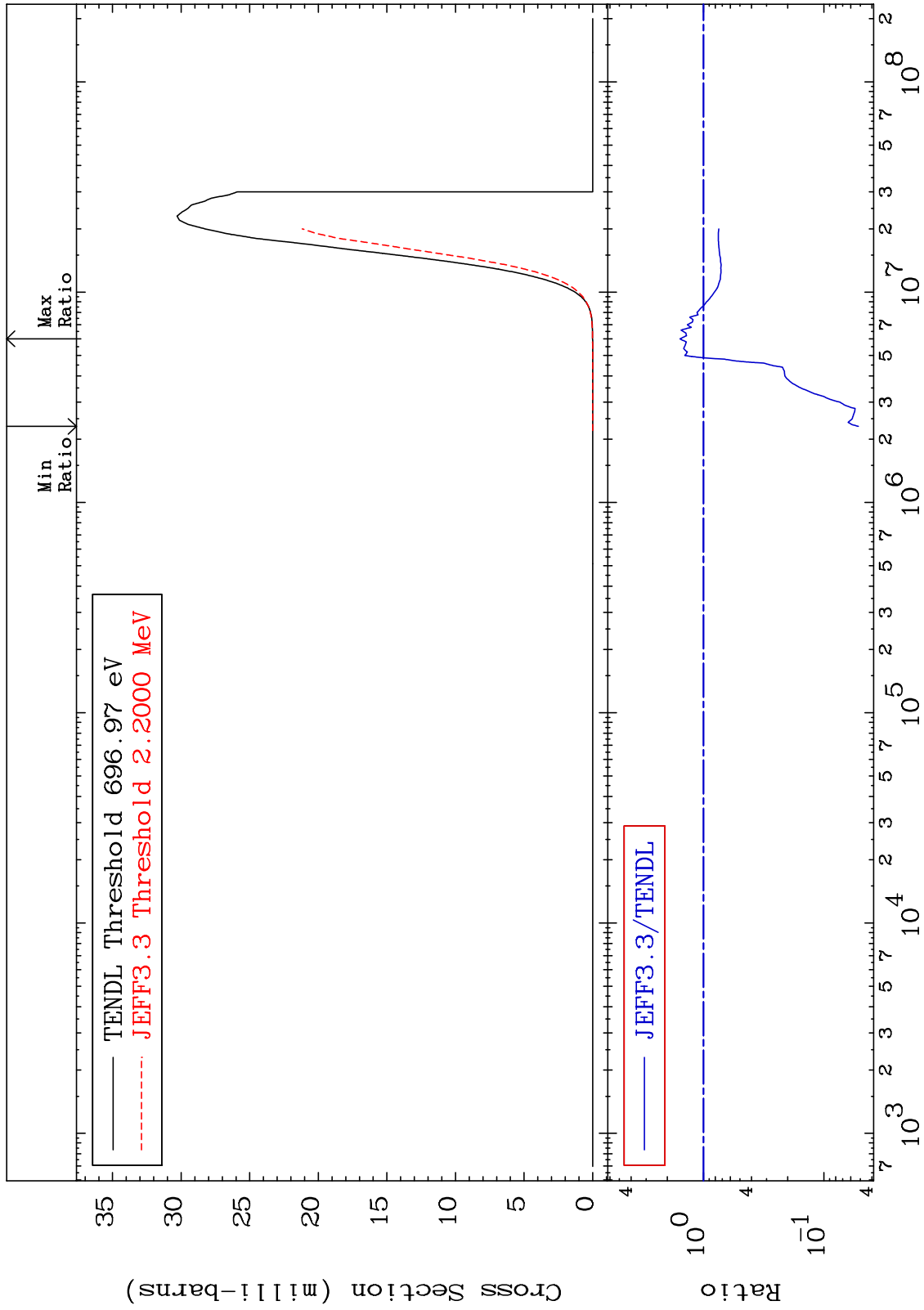
MAT 7234

(n, p)

72-Hf-177

Cross Section

-94.82 To 56.91 %



43

Incident Energy (eV)

72-Hf-177

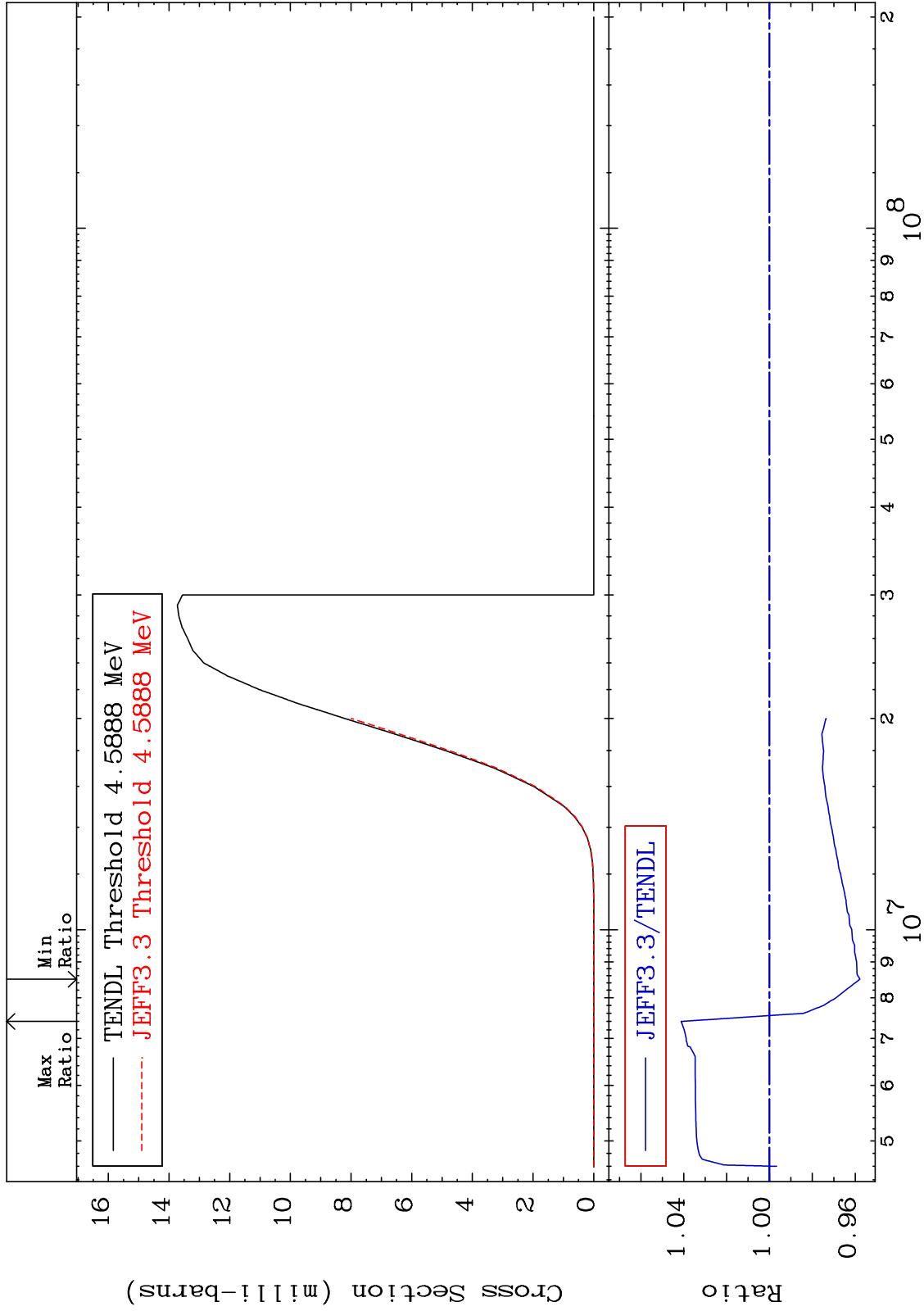
MAT 7234

(n, d)

72-Hf-177

Cross Section

-4.221 To 4.120 %



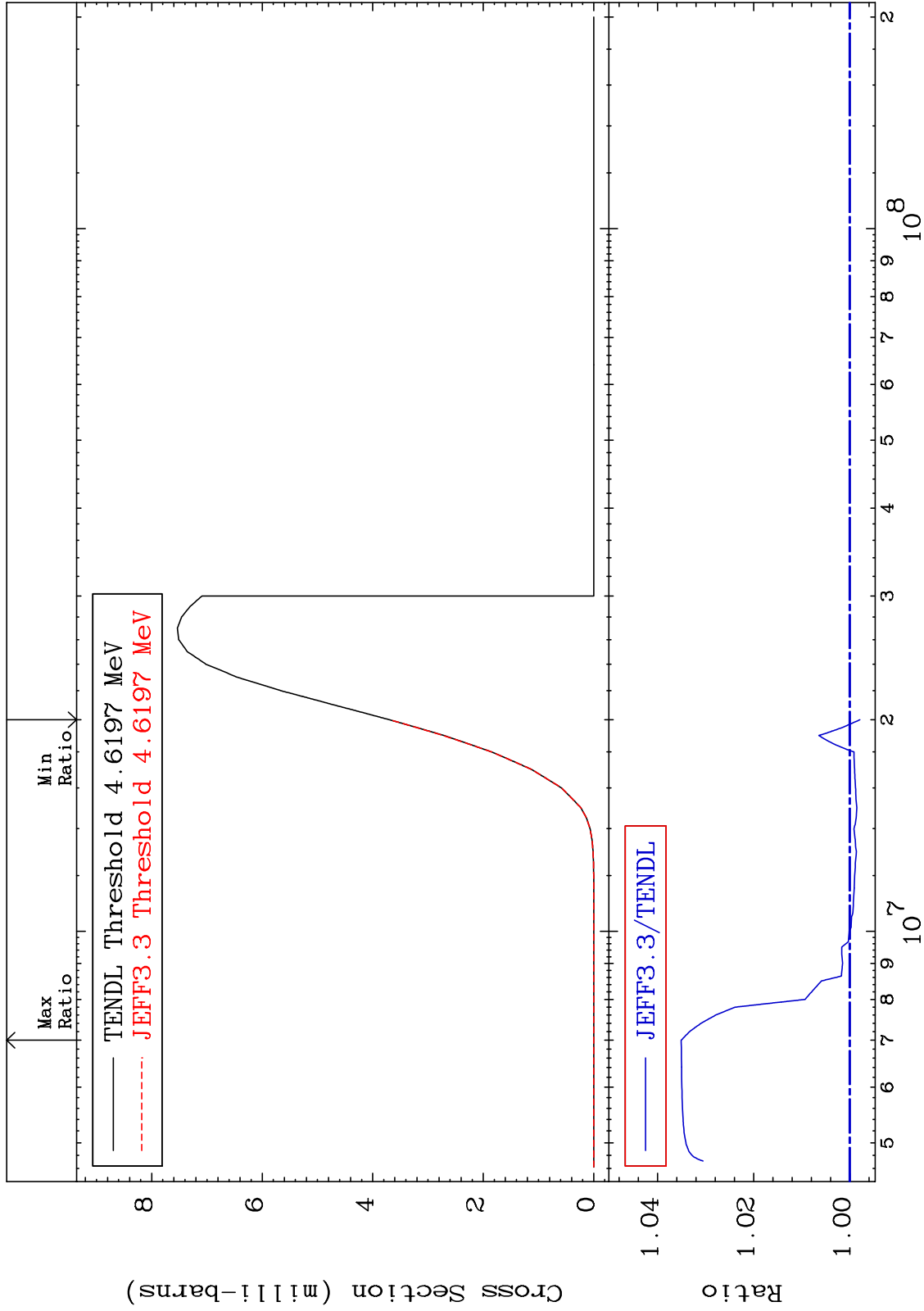
MAT 7234

(n, t)

72-Hf-177

Cross Section

-0.212 To 3.507 %



45

Incident Energy (eV)

72-Hf-177

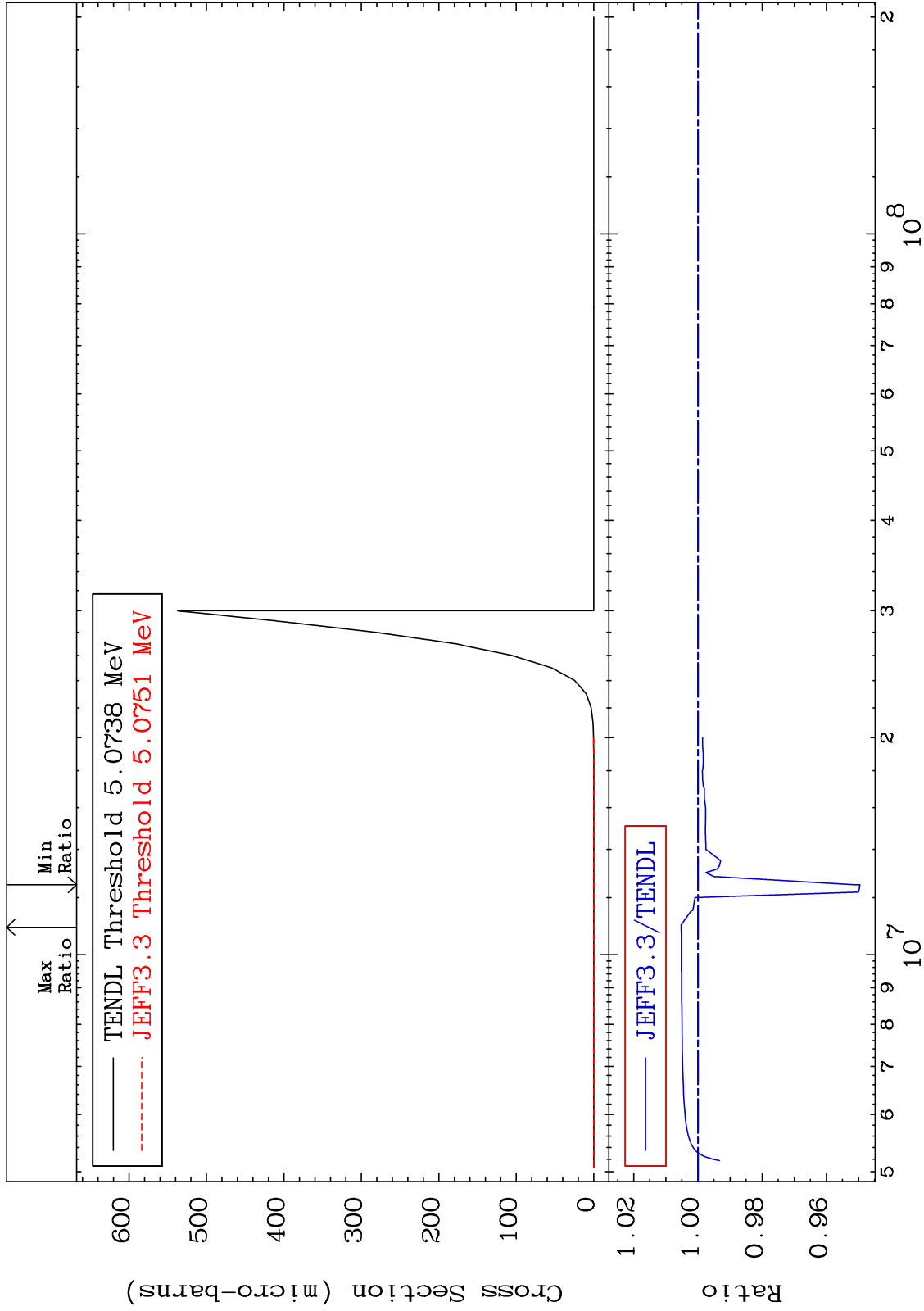
MAT 7234

(n, He-3)

72-Hf-177

Cross Section

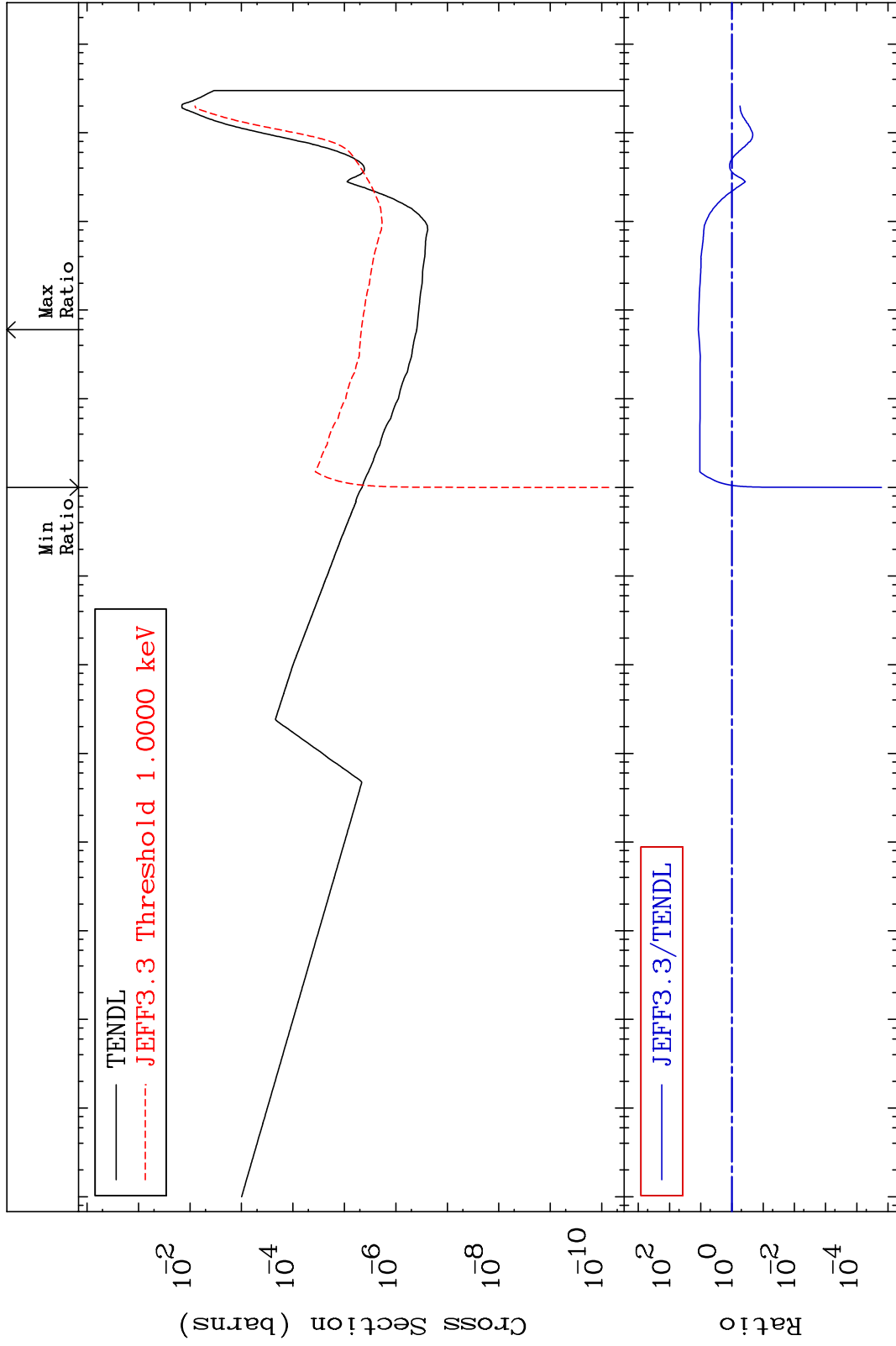
-5.043 To 0.522 %



MAT 7234

(n, α)
Cross Section

72-Hf-177
-100.0 To 1095. %



Incident Energy (eV)

72-Hf-177

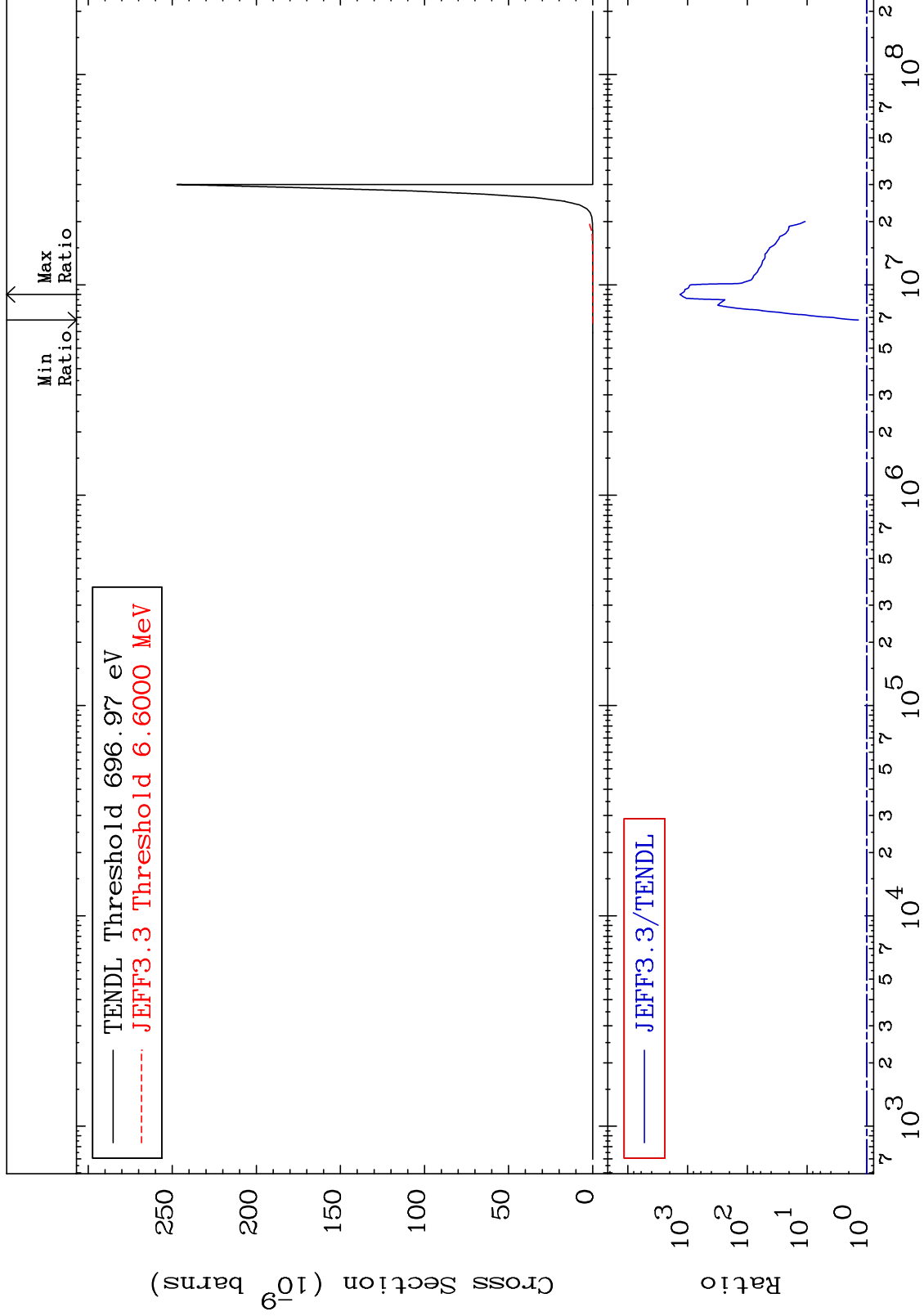
MAT 7234

(n,p) α

Cross Section

72-Hf-177

38.16 To 9999. %



48

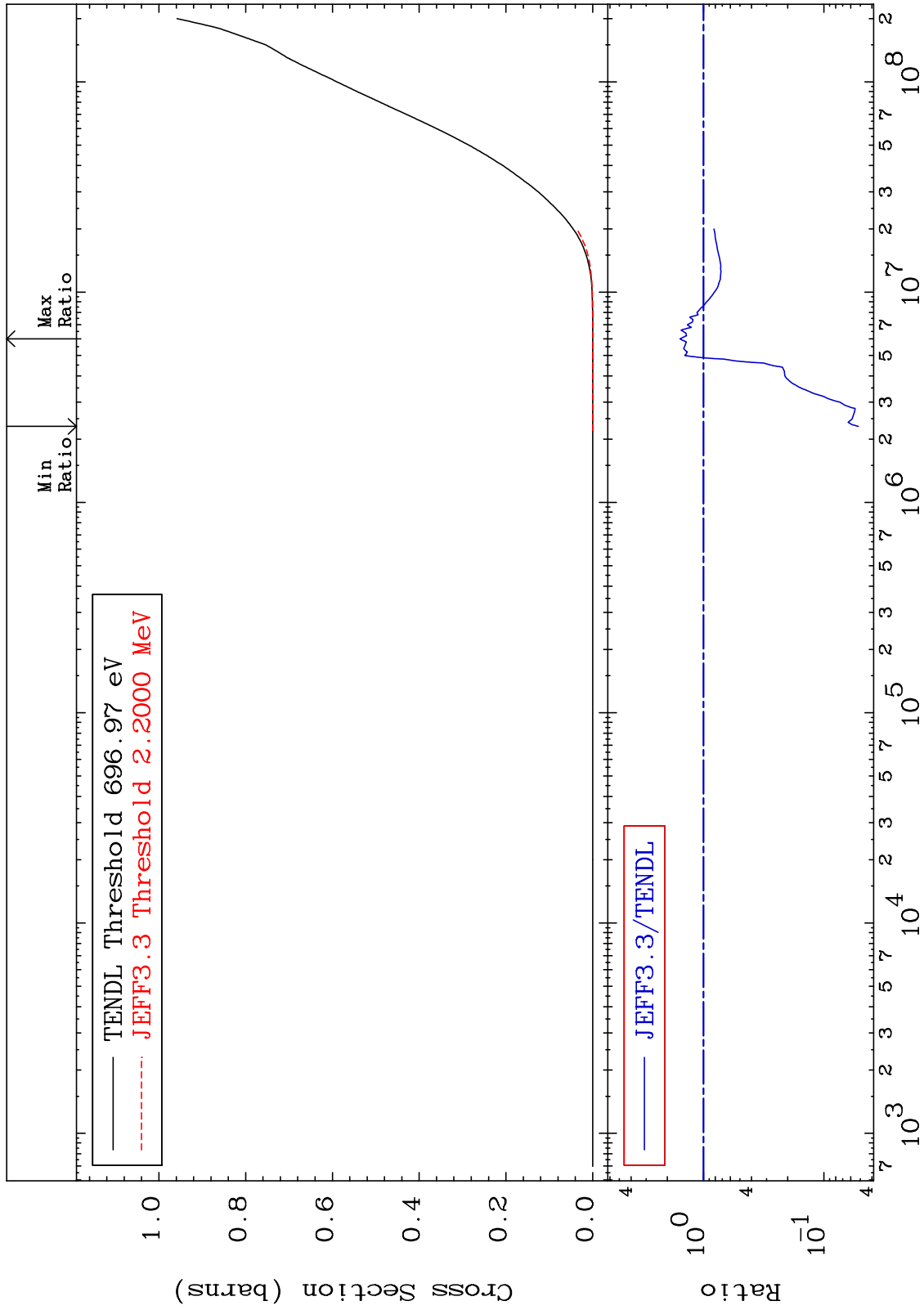
Incident Energy (eV)

72-Hf-177

MAT 7234

Hydrogen Production
Cross Section

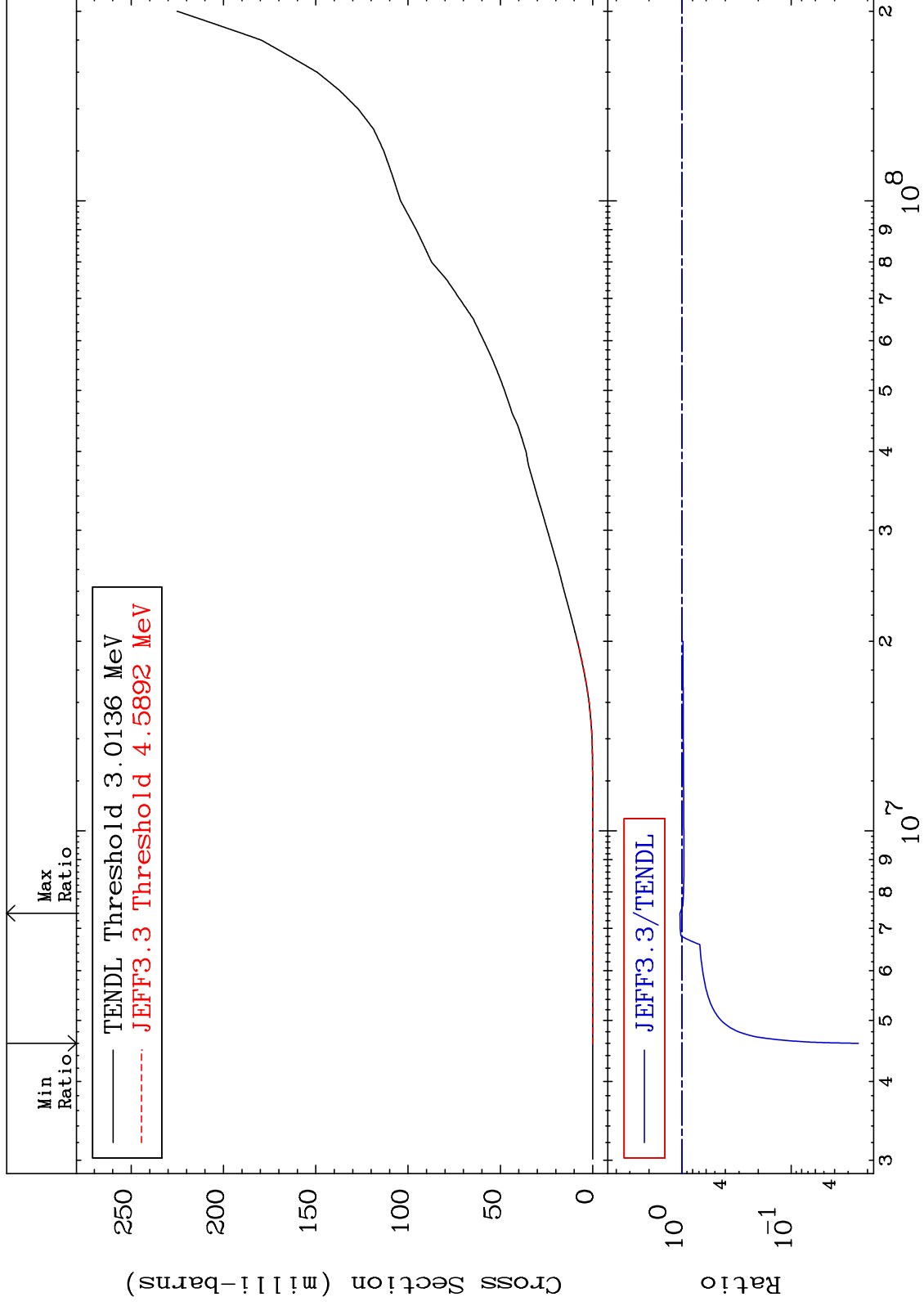
⁷²Hf-177
-94.82 To 56.91 %



MAT 7234

Deuterium Production
Cross Section

⁷²Hf-177
-97.58 To 4.114 %



50

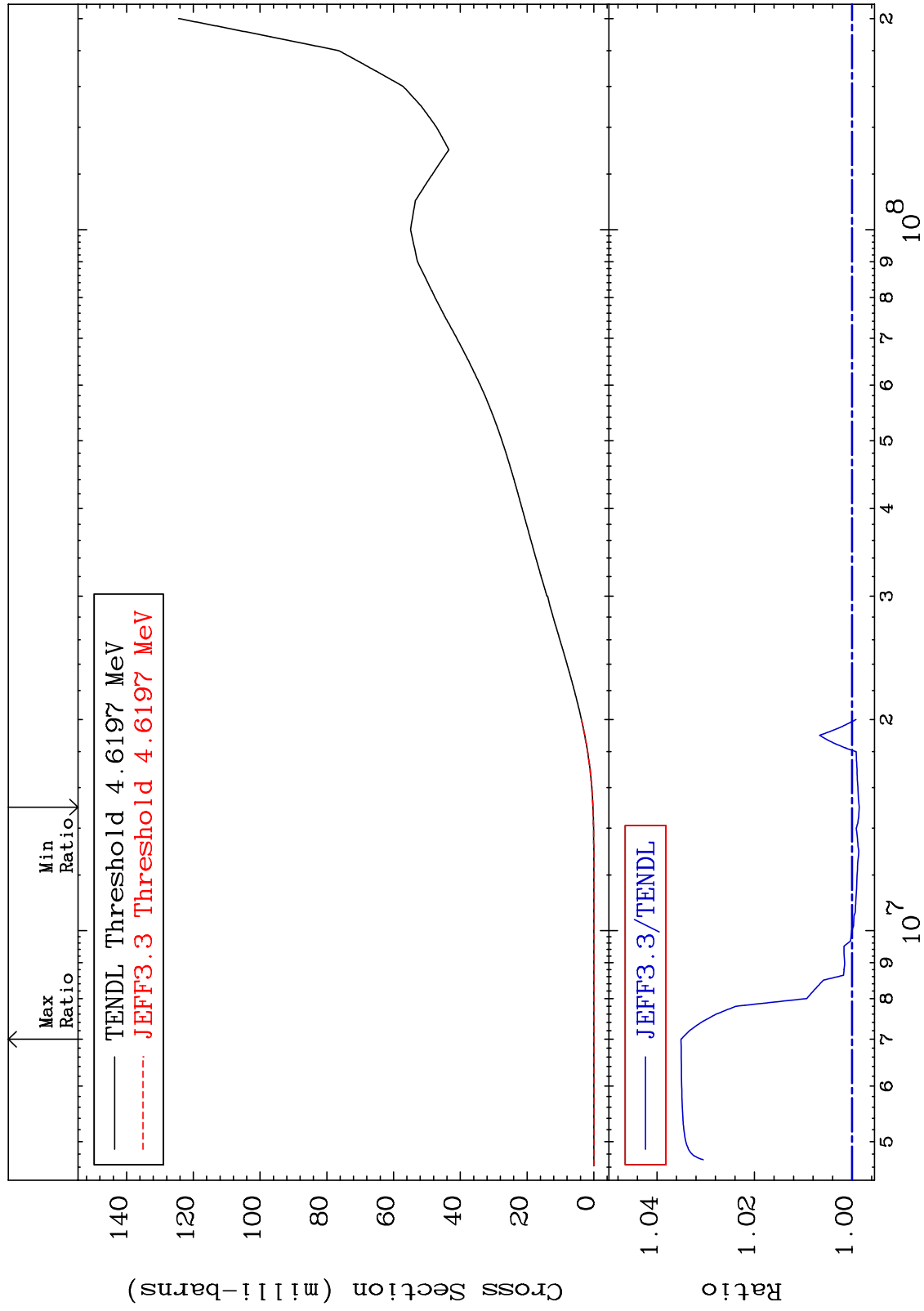
Incident Energy (eV)

⁷²Hf-177

MAT 7234

Tritium Production
Cross Section

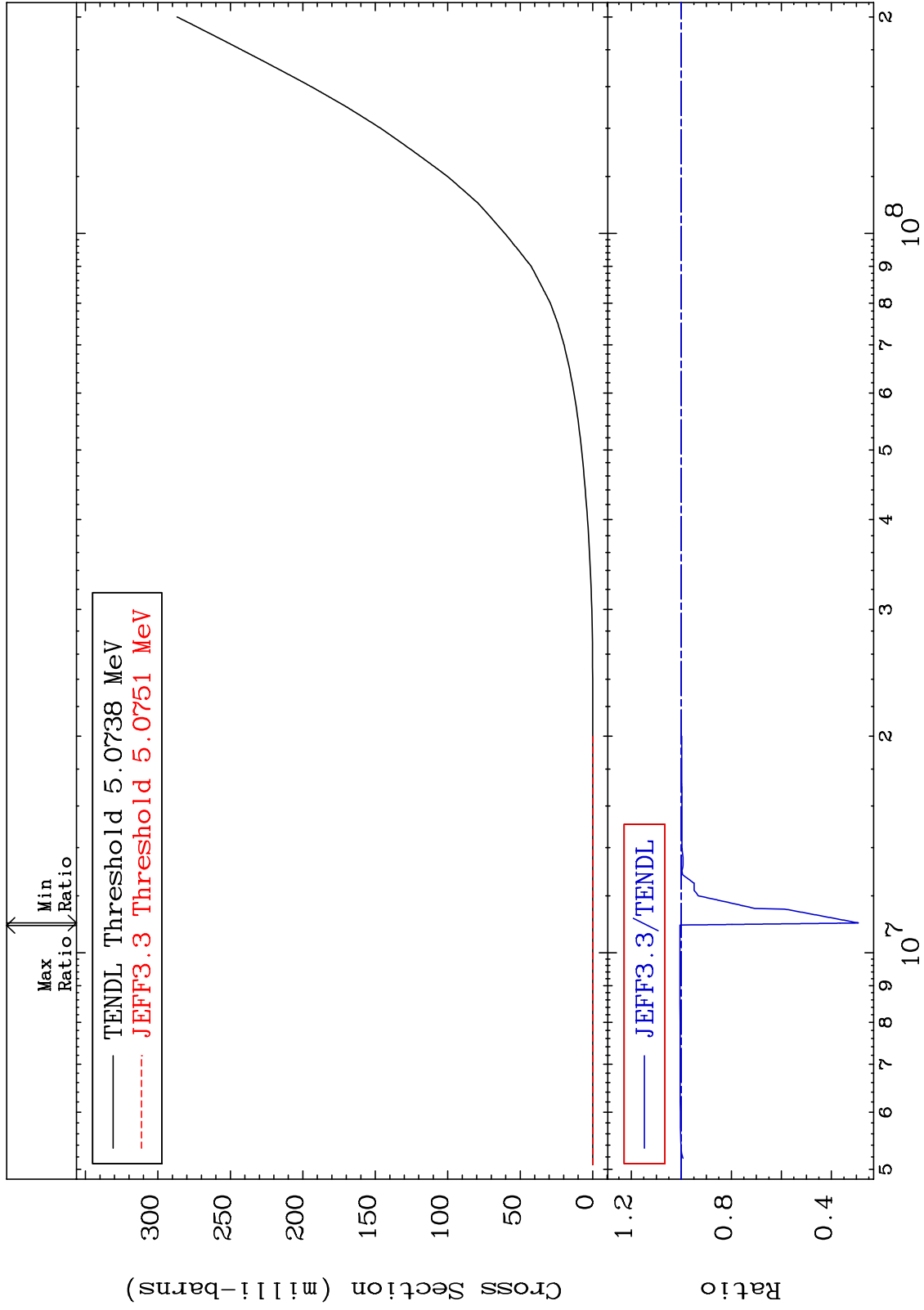
⁷²Hf-177
-0.148 To 3.507 %



MAT 7234

He-3 Production
Cross Section

⁷²Hf-177
-70.81 To 0.522 %



52

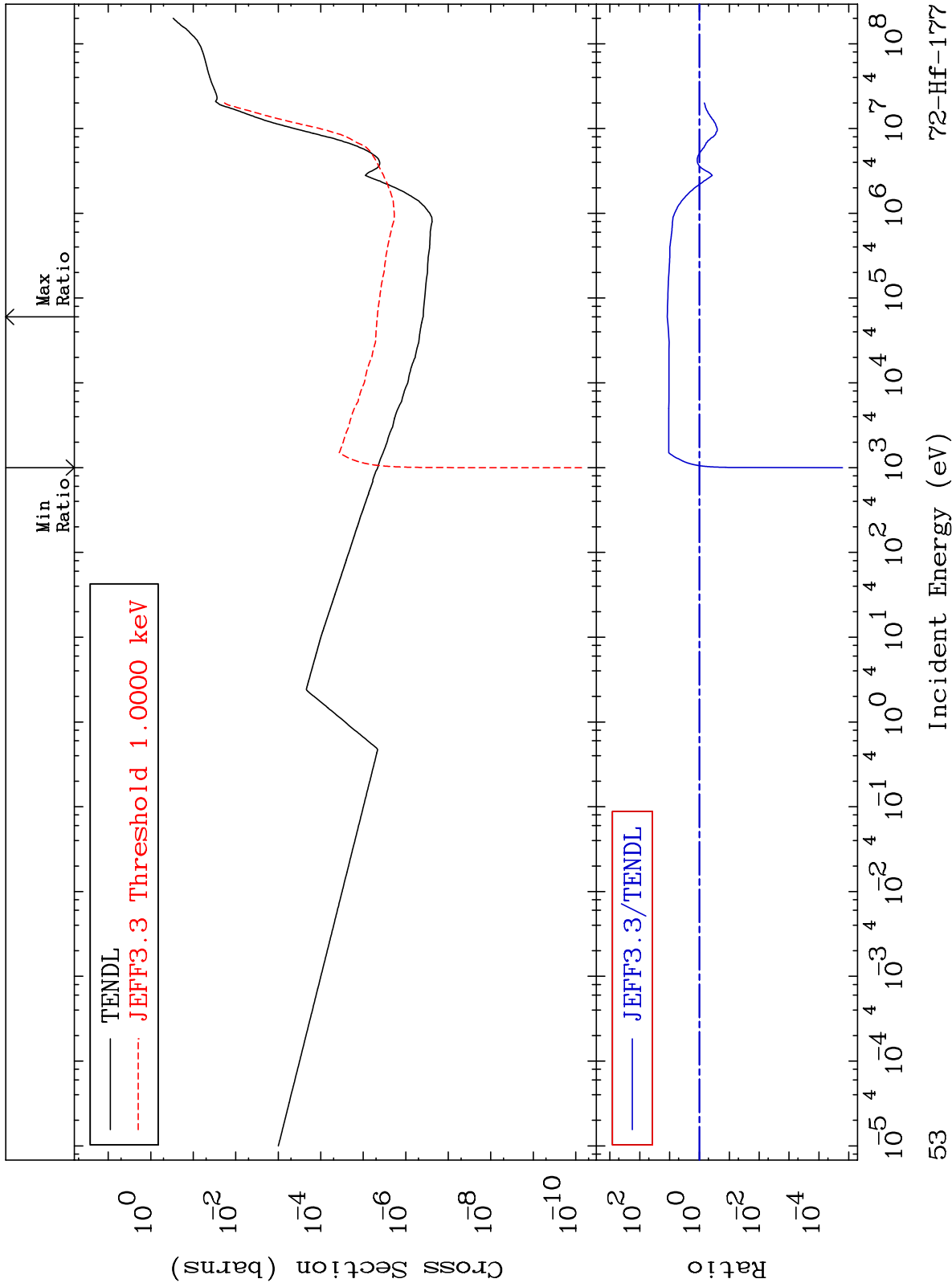
Incident Energy (eV)

⁷²Hf-177

MAT 7234

He-4 Production
Cross Section

72-Hf-177
-100.0 To 1095. %



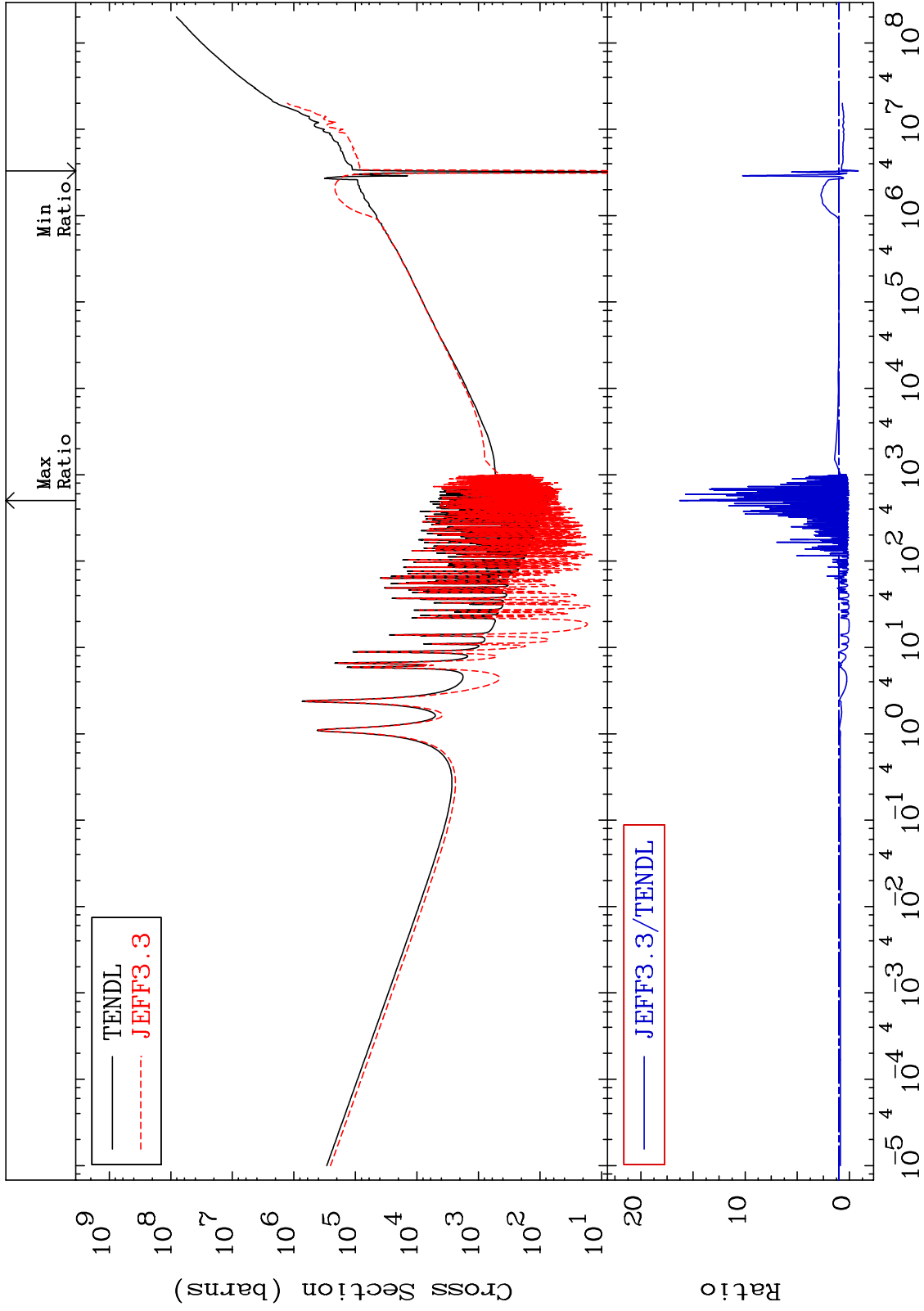
MAT 7234

Kerma total (eV-barns)

72-Hf-177

-186.0 To 1527. %

Cross Section



54

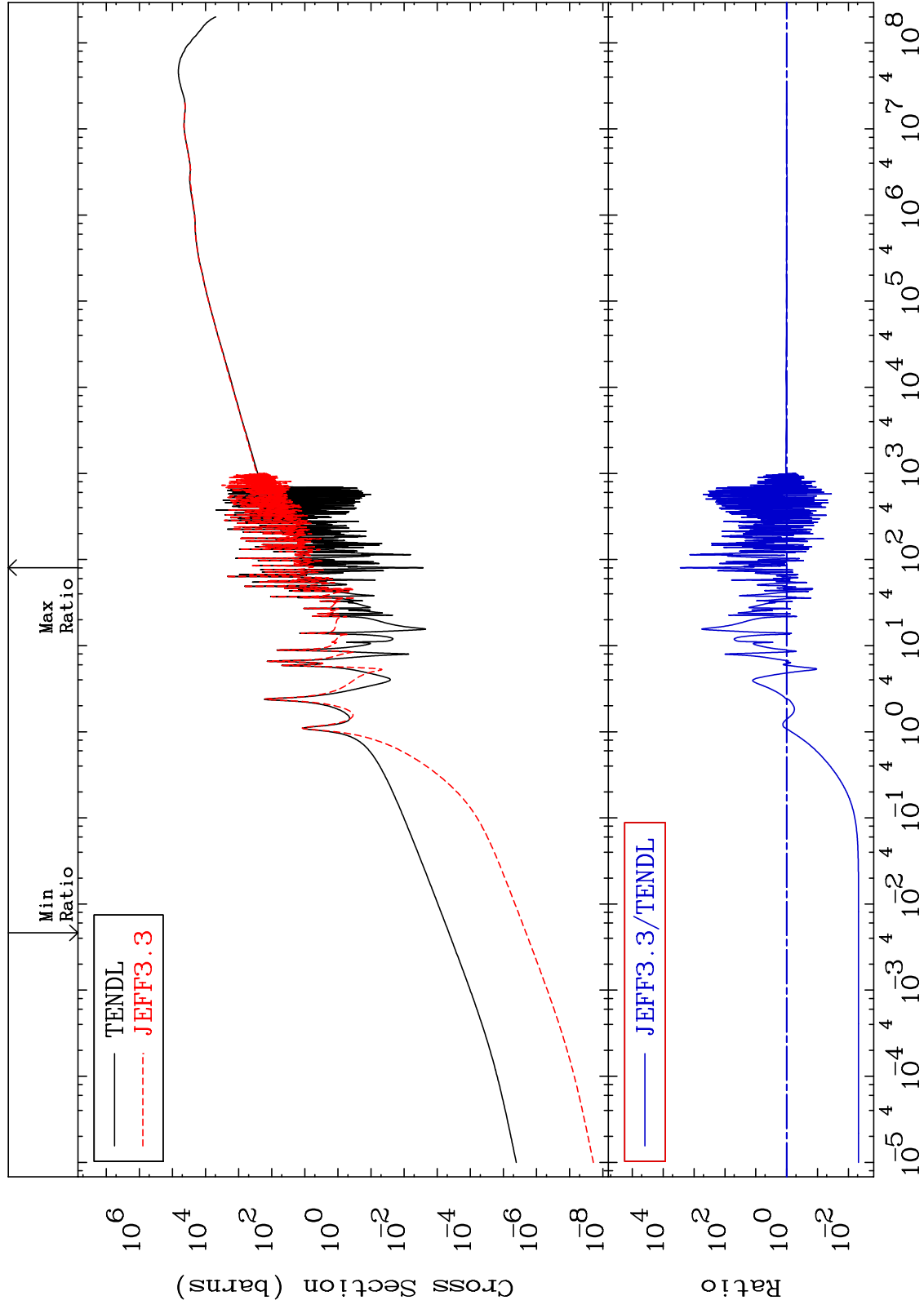
Incident Energy (eV)

72-Hf-177

MAT 7234

Kerma elastic
Cross Section

72-Hf-177
-99.53 To 9999. %



55

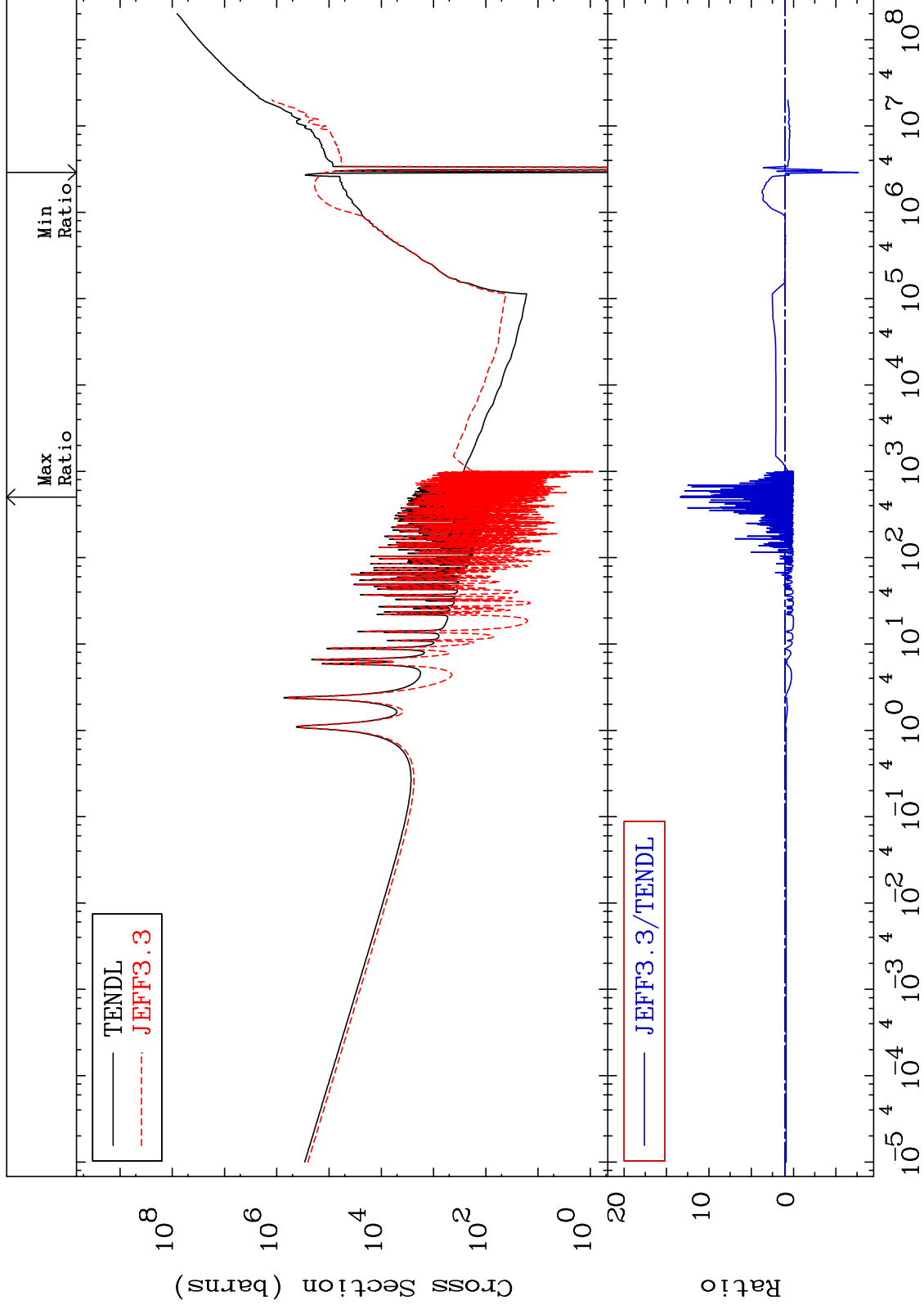
Incident Energy (eV)

72-Hf-177

MAT 7234

Kerma non-elastic (all but mt2)
Cross Section

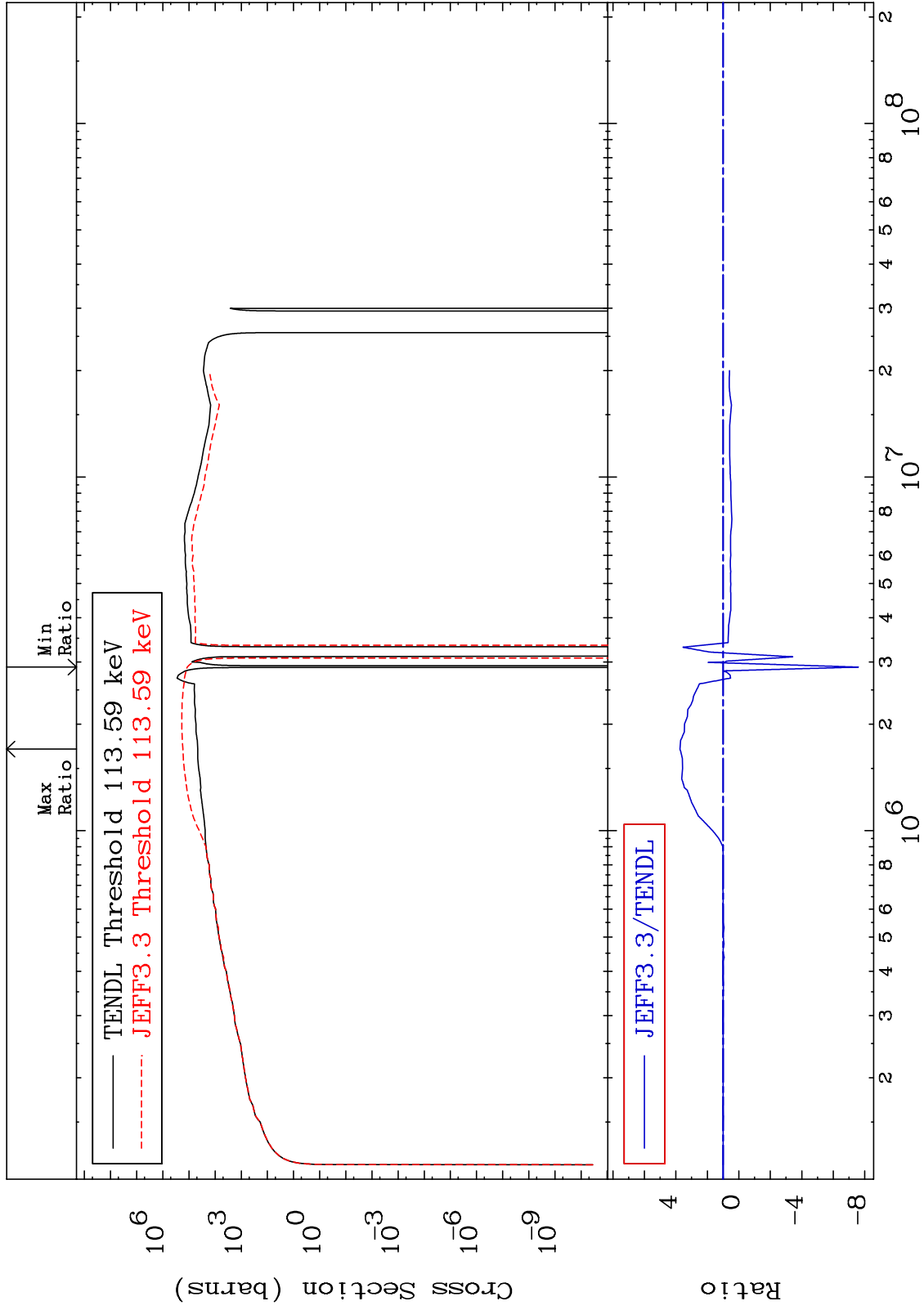
72-Hf-177
-865.1 To 1241. %



MAT 7234

Kerma inelastic (mt51-91)
Cross Section

72-Hf-177
-860.0 To 273.7 %



57

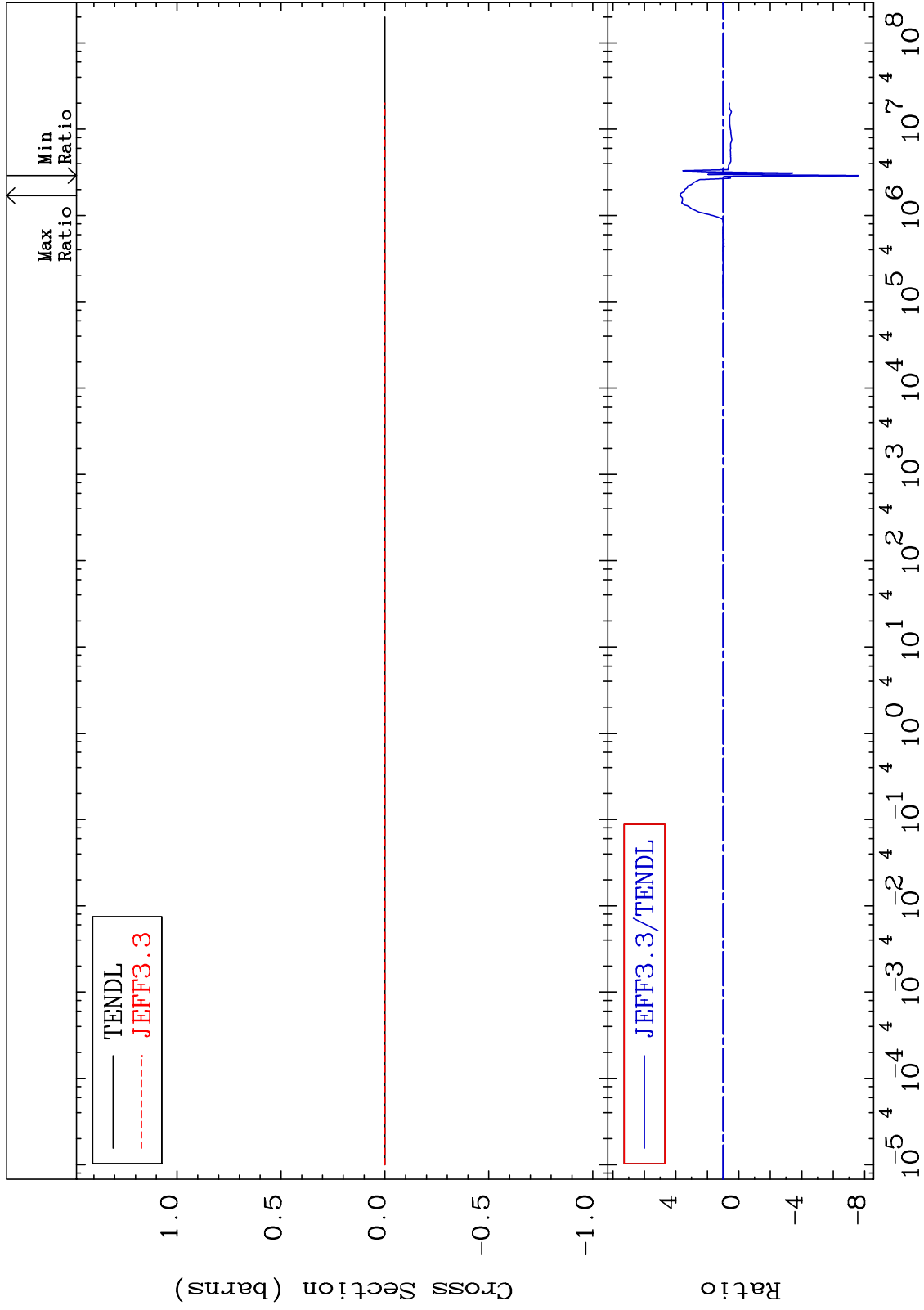
72-Hf-177

72-Hf-177

MAT 7234

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

72-Hf-177
-860.0 To 273.7 %



58

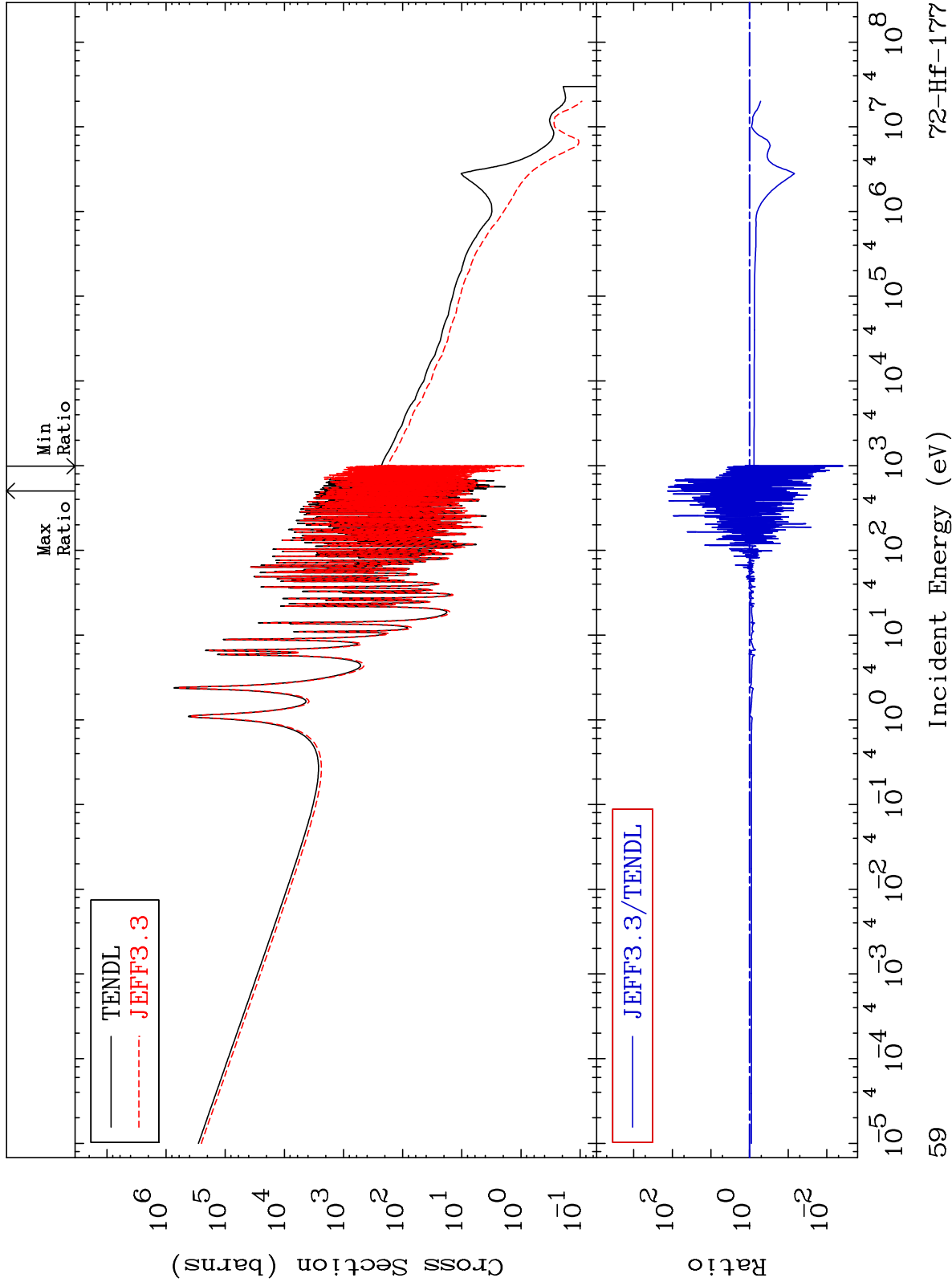
Incident Energy (eV)

72-Hf-177

MAT 7234

Kerma capture (mt102)
Cross Section

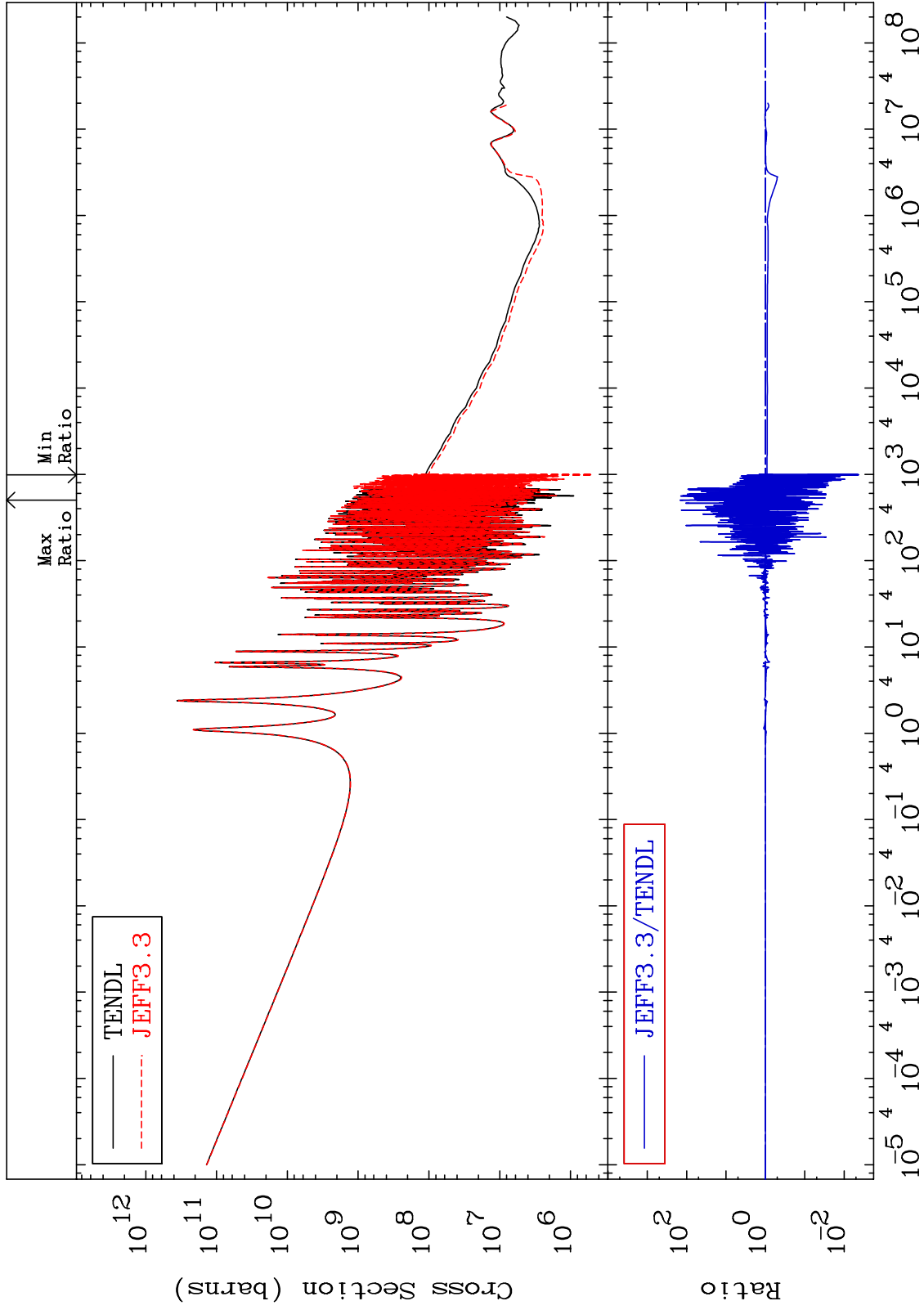
72-Hf-177
-99.61 To 9999. %



MAT 7234

Total photon (eV-barns)
Cross Section

72-Hf-177
-99.57 To 9999. %



60

Incident Energy (eV)

72-Hf-177

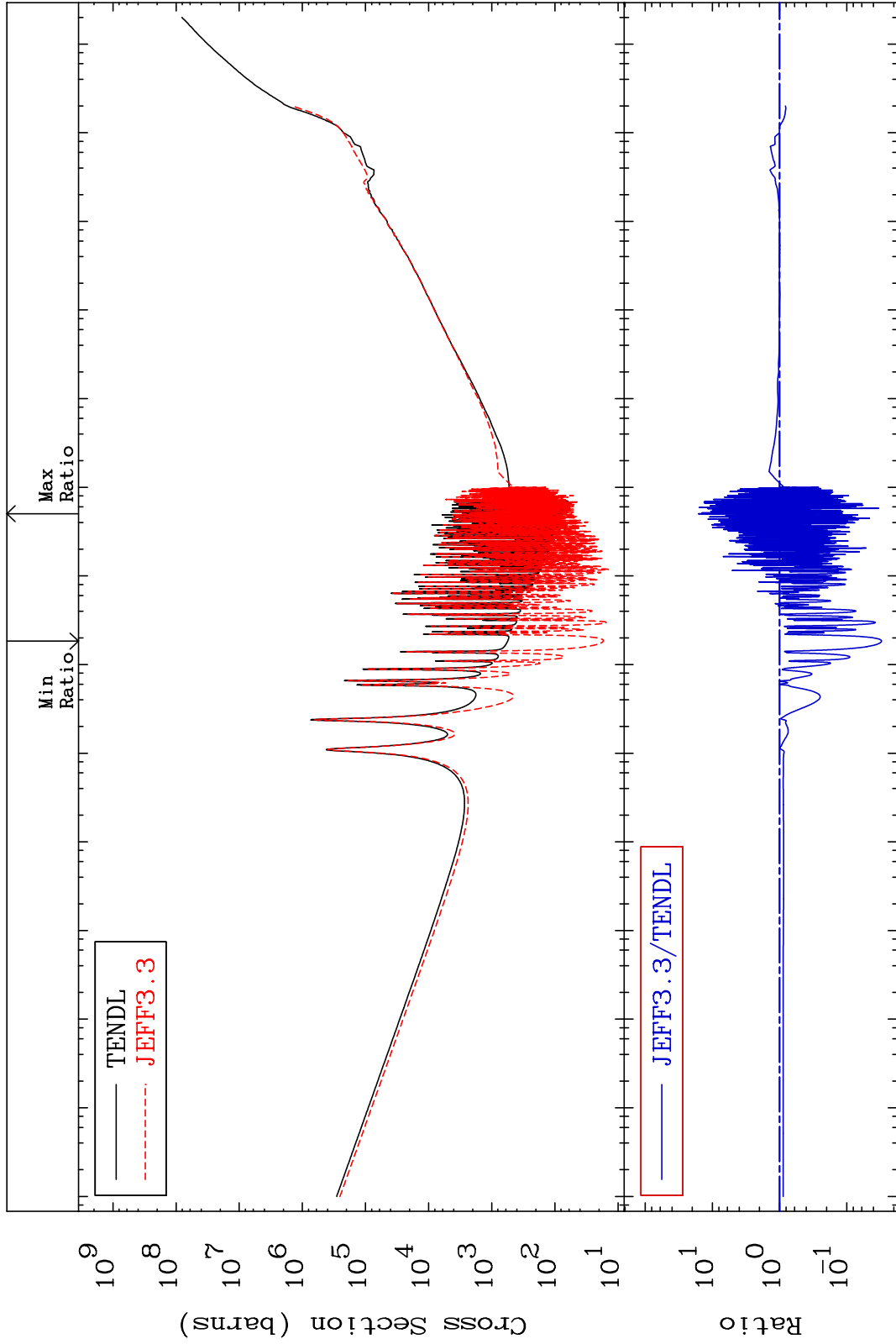
MAT 7234

Total kinematic kerma (high limit)

72-Hf-177

-96.96 To 1520. %

Cross Section

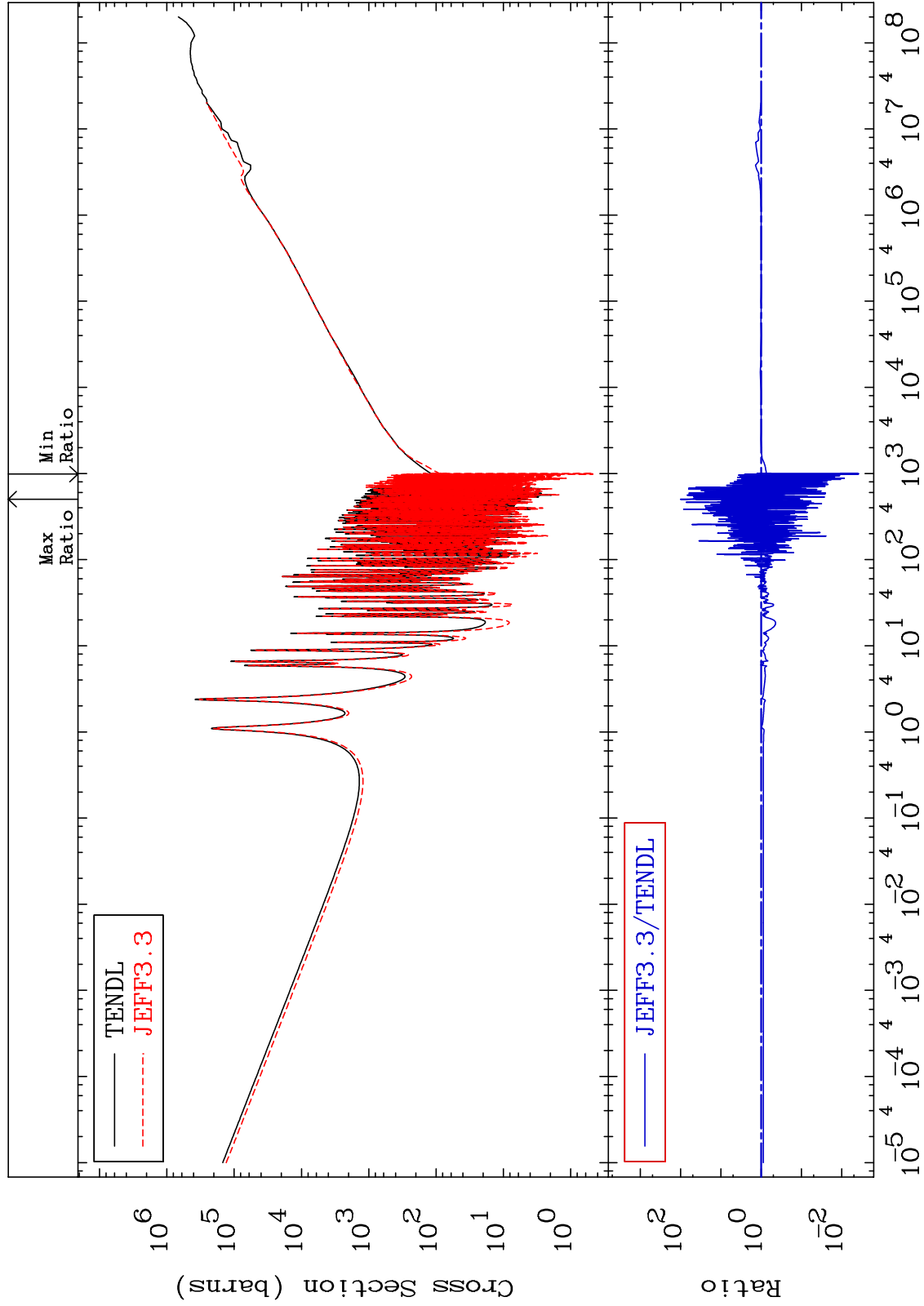


Incident Energy (eV) 72-Hf-177

MAT 7234

Dpa total (eV-barns)
Cross Section

72-Hf-177
-99.62 To 9999. %



62

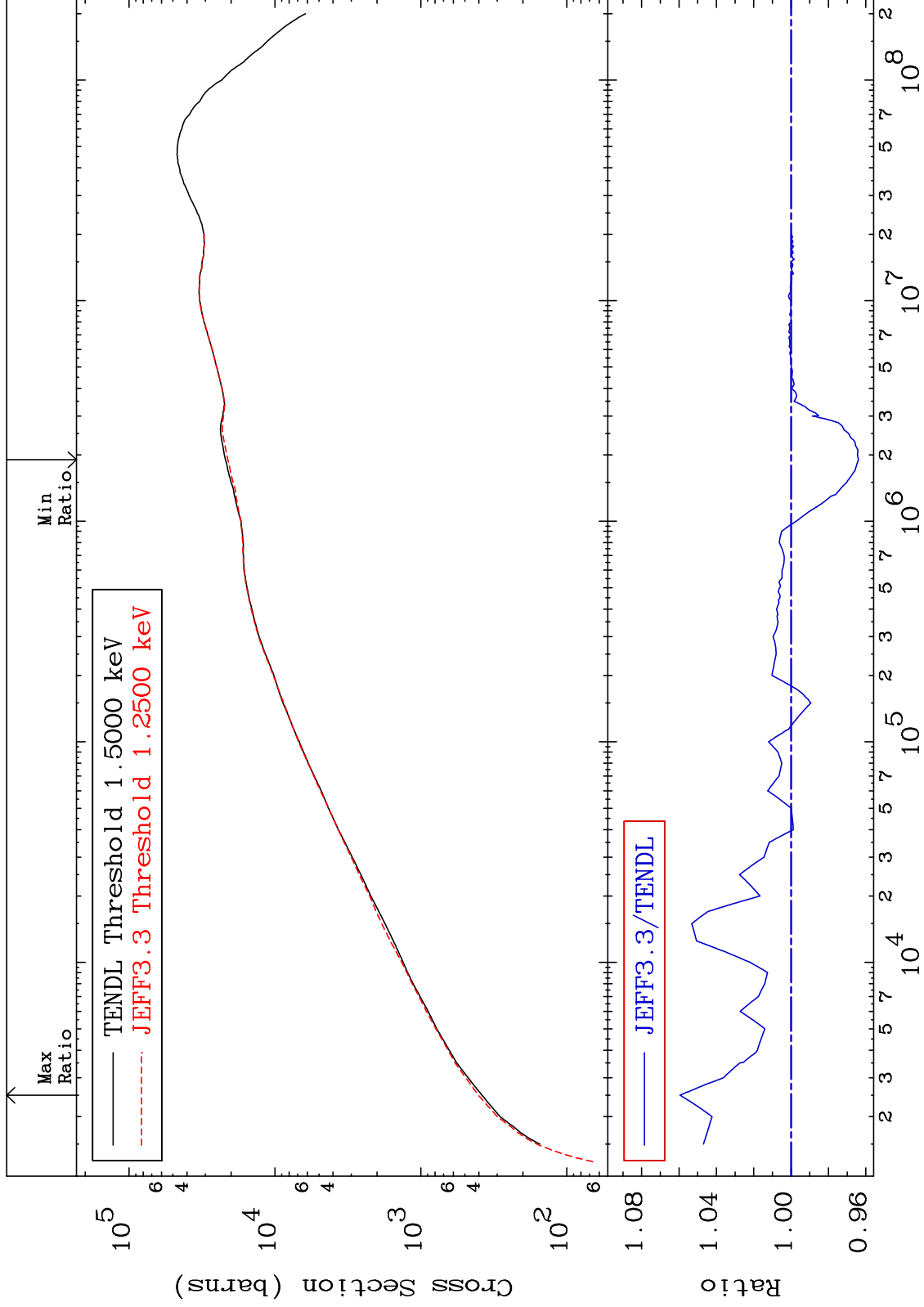
Incident Energy (eV)

72-Hf-177

MAT 7234

Dpa elastic (mt2)
Cross Section

72-Hf-177
-3.603 To 5.945 %



63

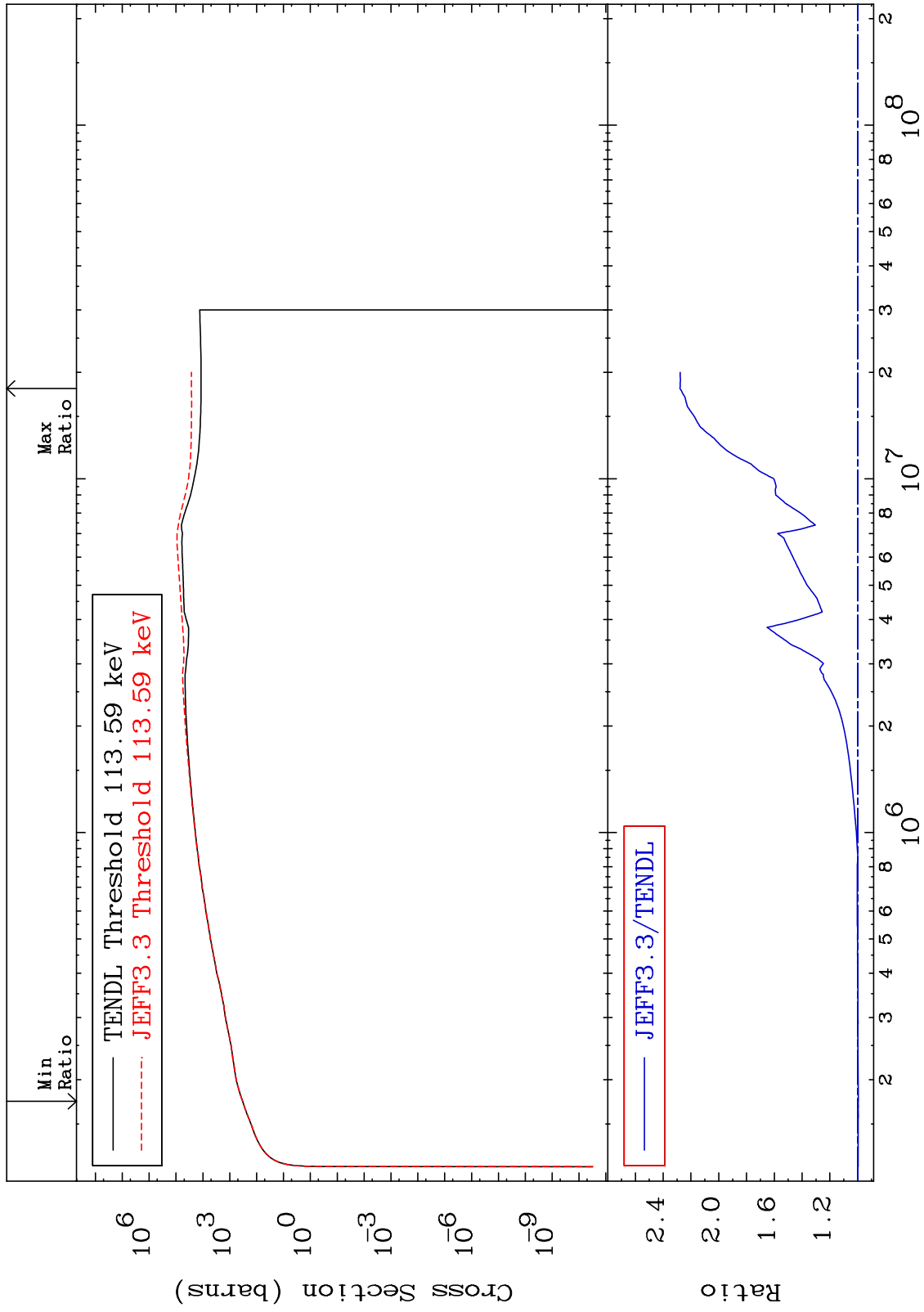
Incident Energy (eV)

72-Hf-177

MAT 7234

Dpa inelastic (mt51-91)
Cross Section

72-Hf-177
-0.550 To 127.9 %



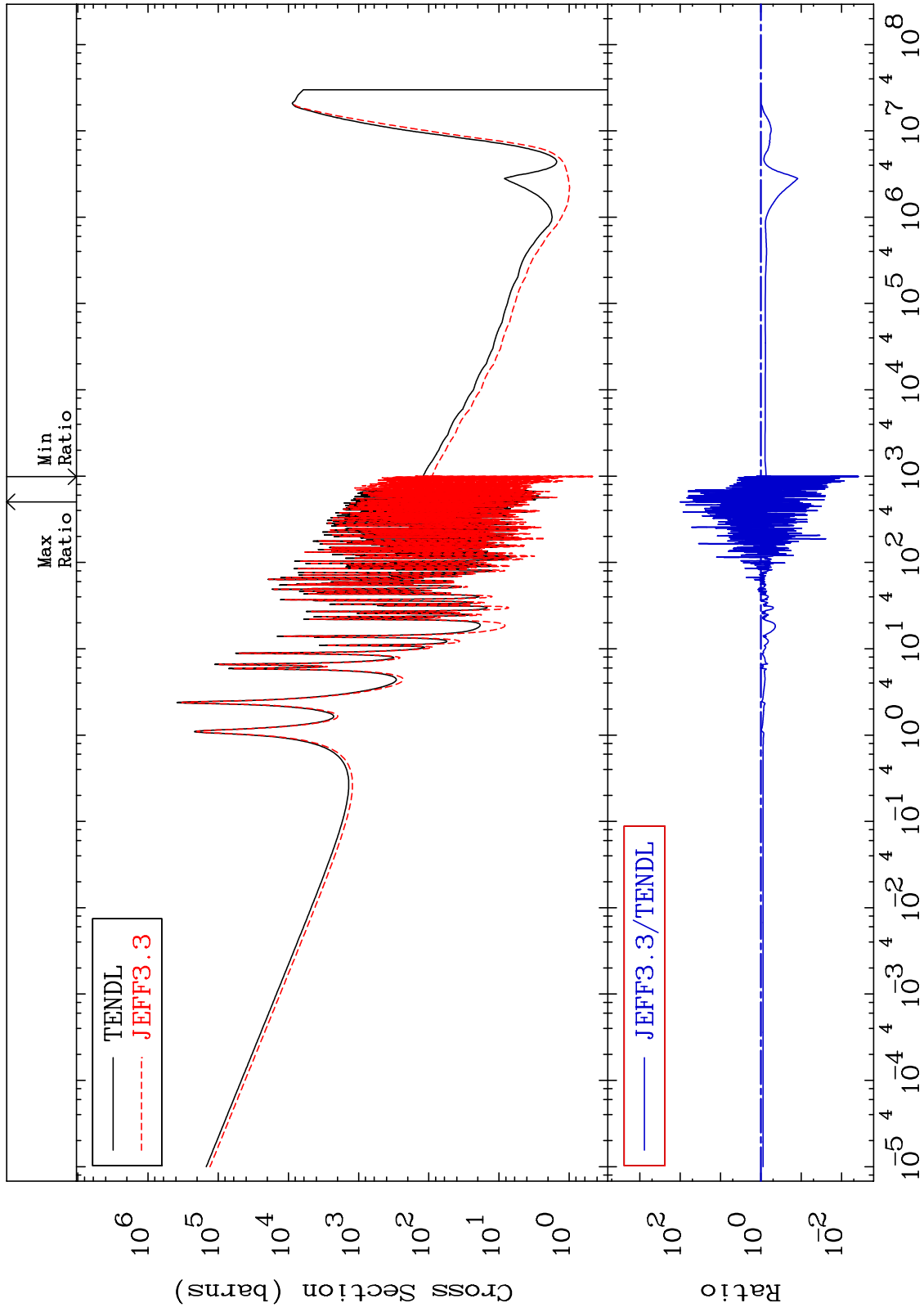
MAT 7234

Dpa disappearance (mt102 -120)

72-Hf-177

Cross Section

-99.62 To 9999. %



65

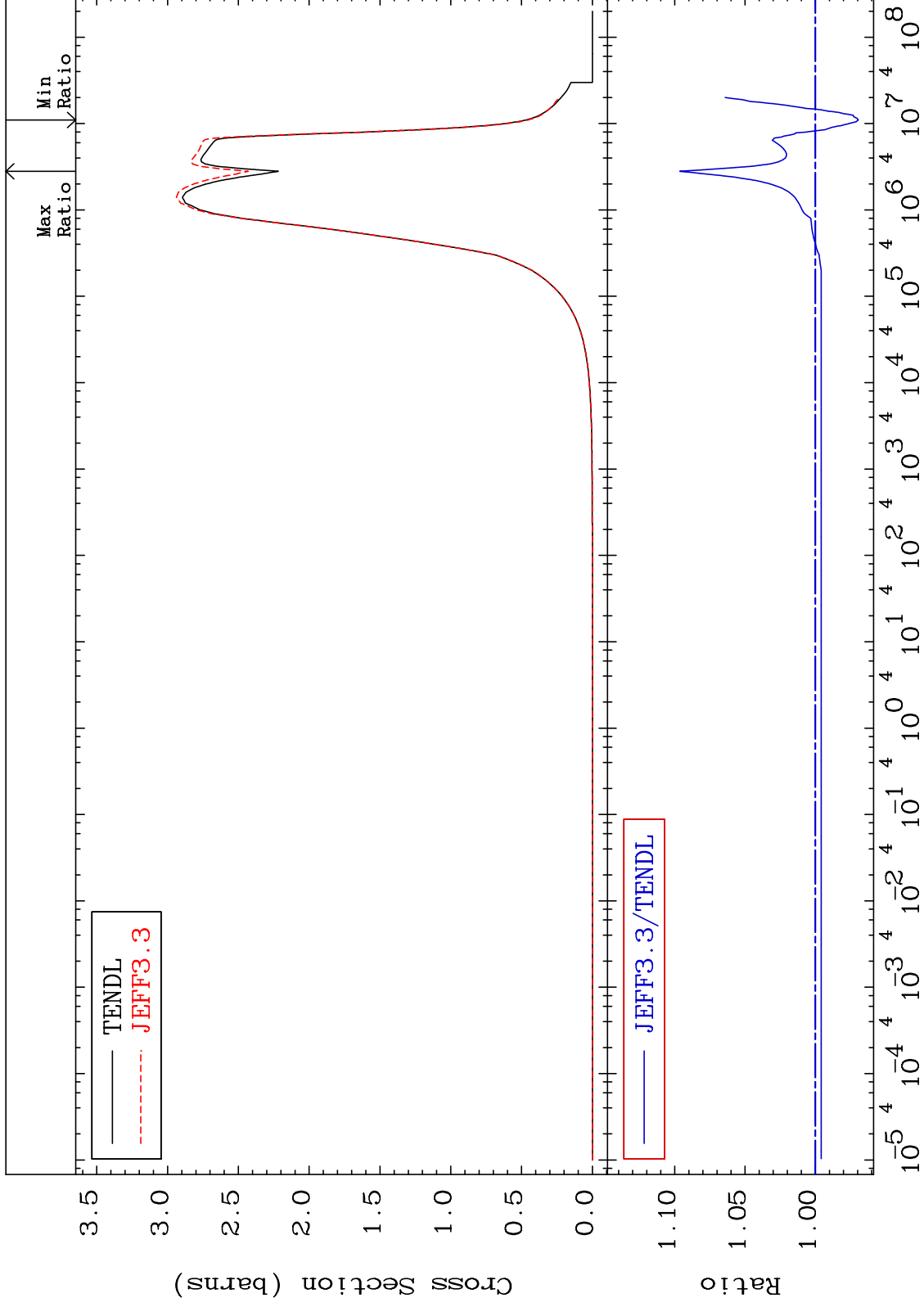
Incident Energy (eV)

72-Hf-177

MAT 7234

Inelastic: 72-Hf-177
Radionuclide Production Cross Section -3.057 To 9.644 %

72-Hf-177



66

Incident Energy (eV)

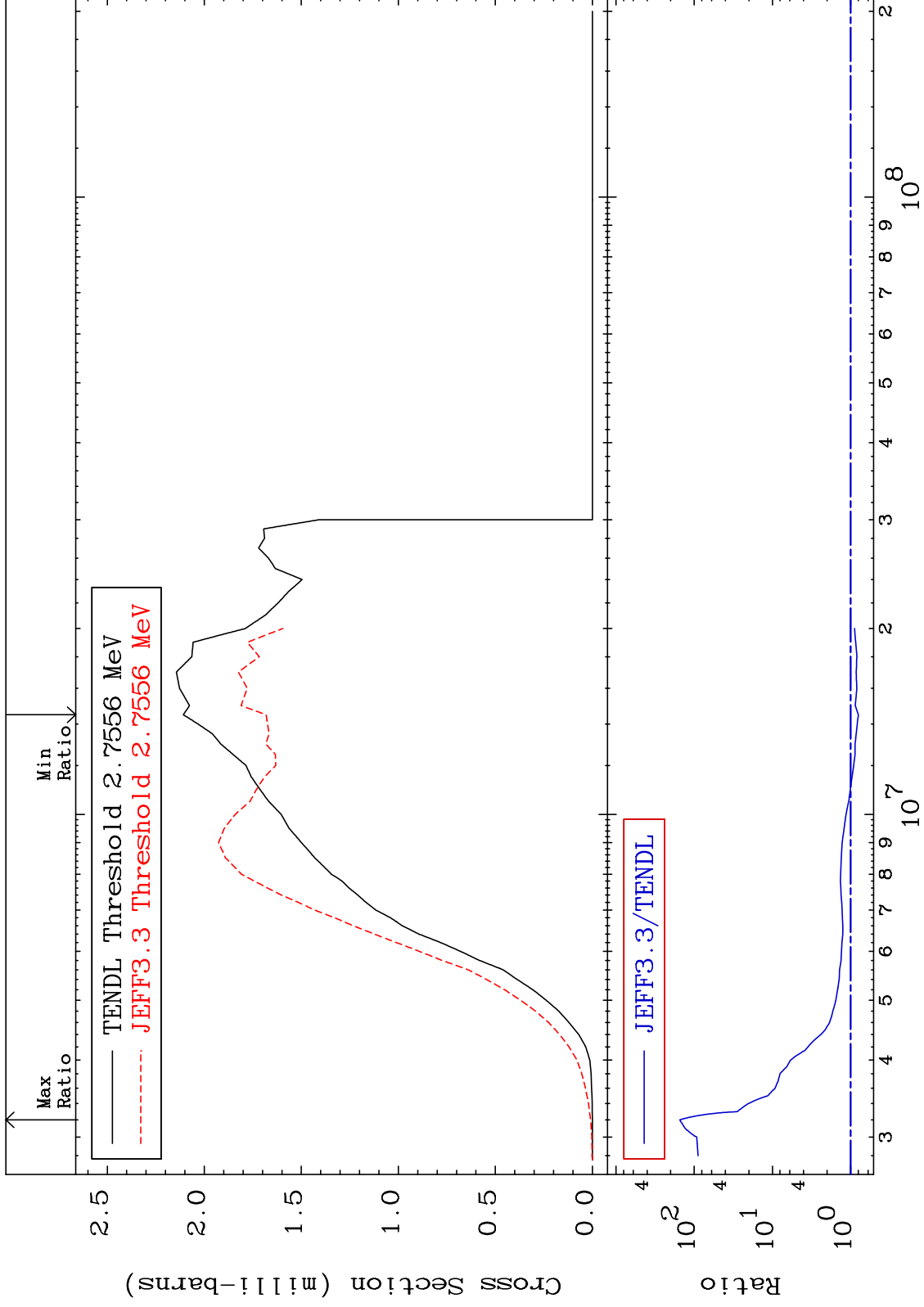
72-Hf-177

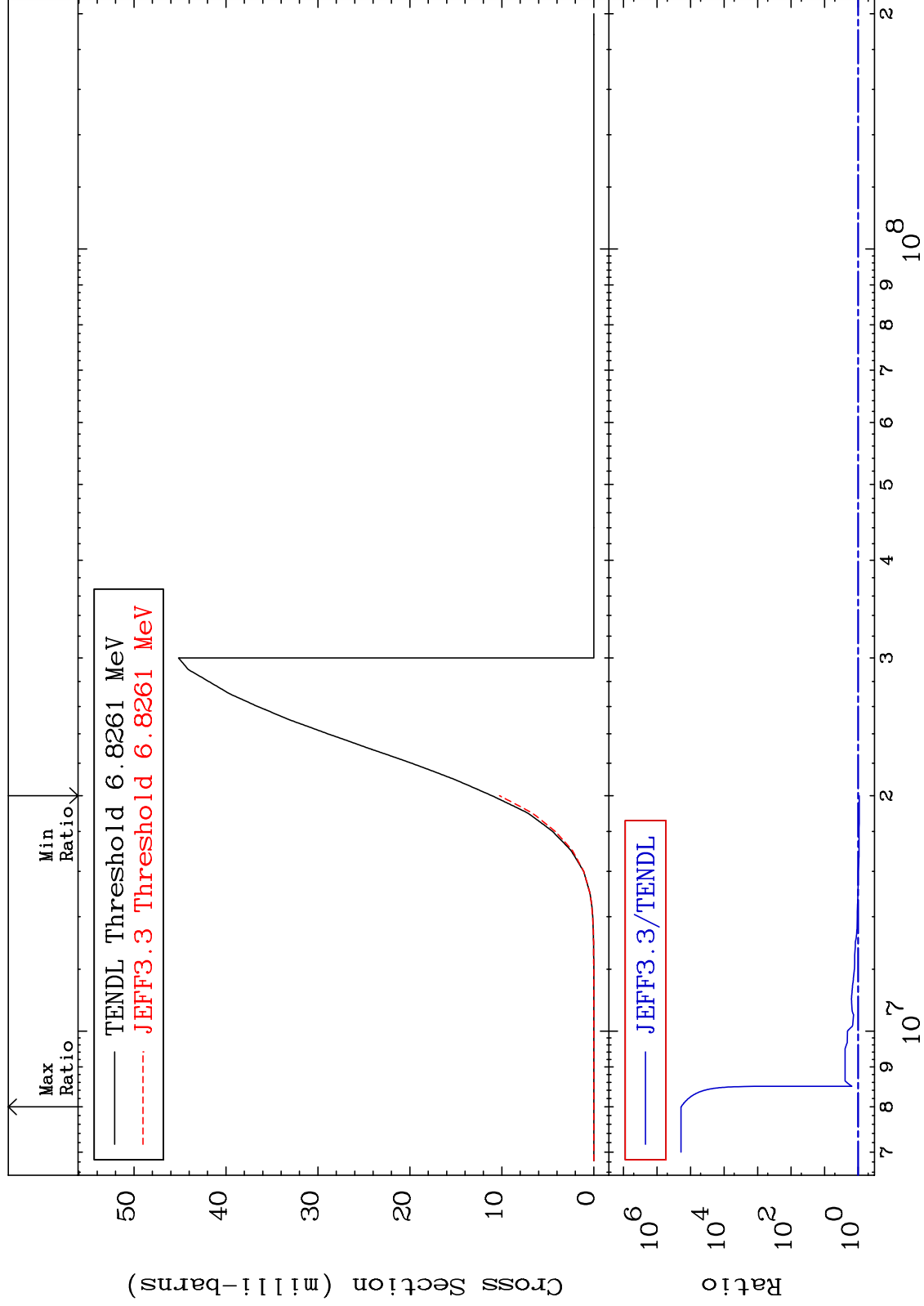
MAT 7234

Inelastic: 72-Hf-177m30

72-Hf-177

Radionuclide Production Cross Section -20.25 To 9999. %



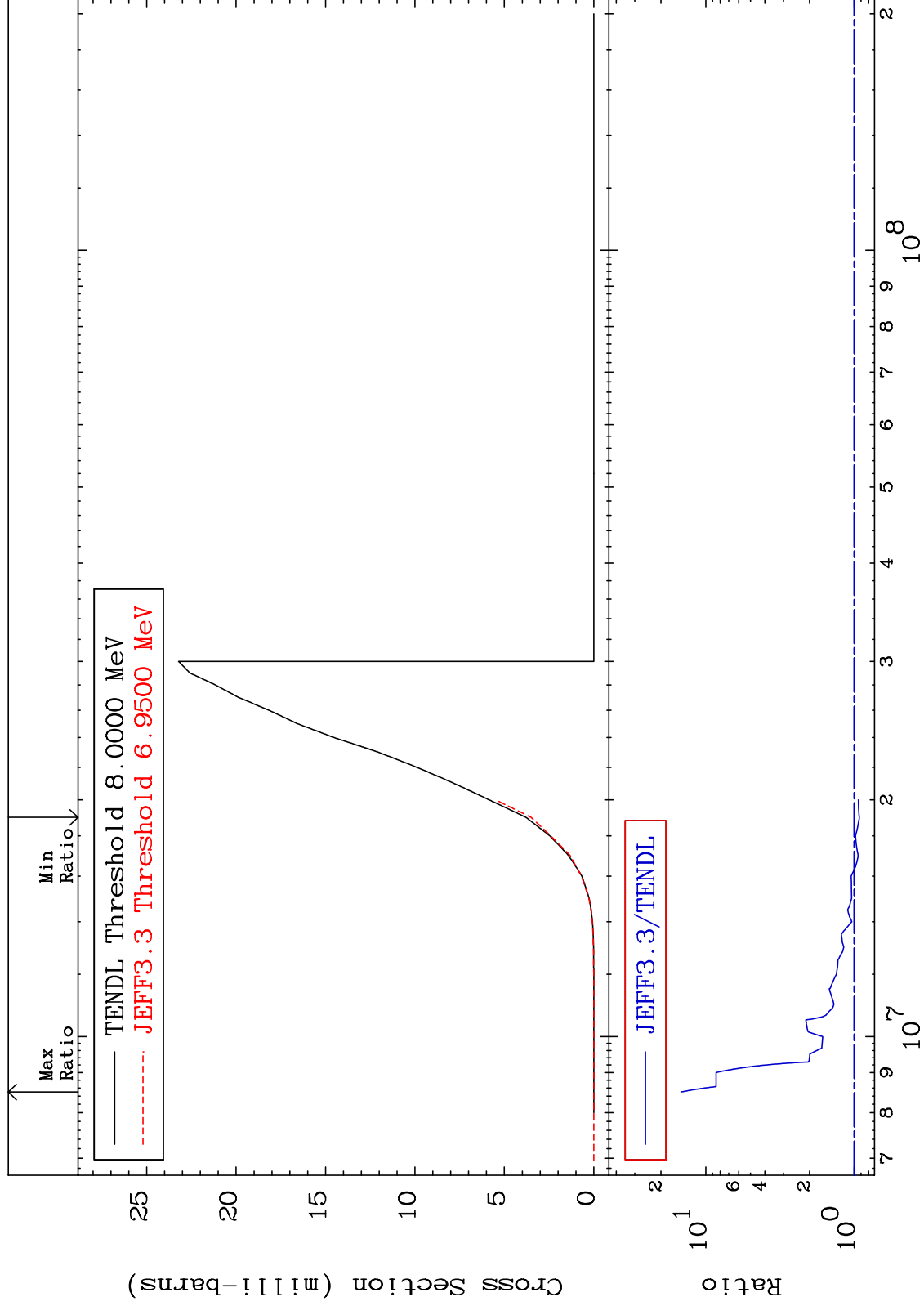


MAT 7234

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

72-Hf-177

Radionuclide Production Cross Section -7.591 To 1366. %



69

Incident Energy (eV)

72-Hf-177

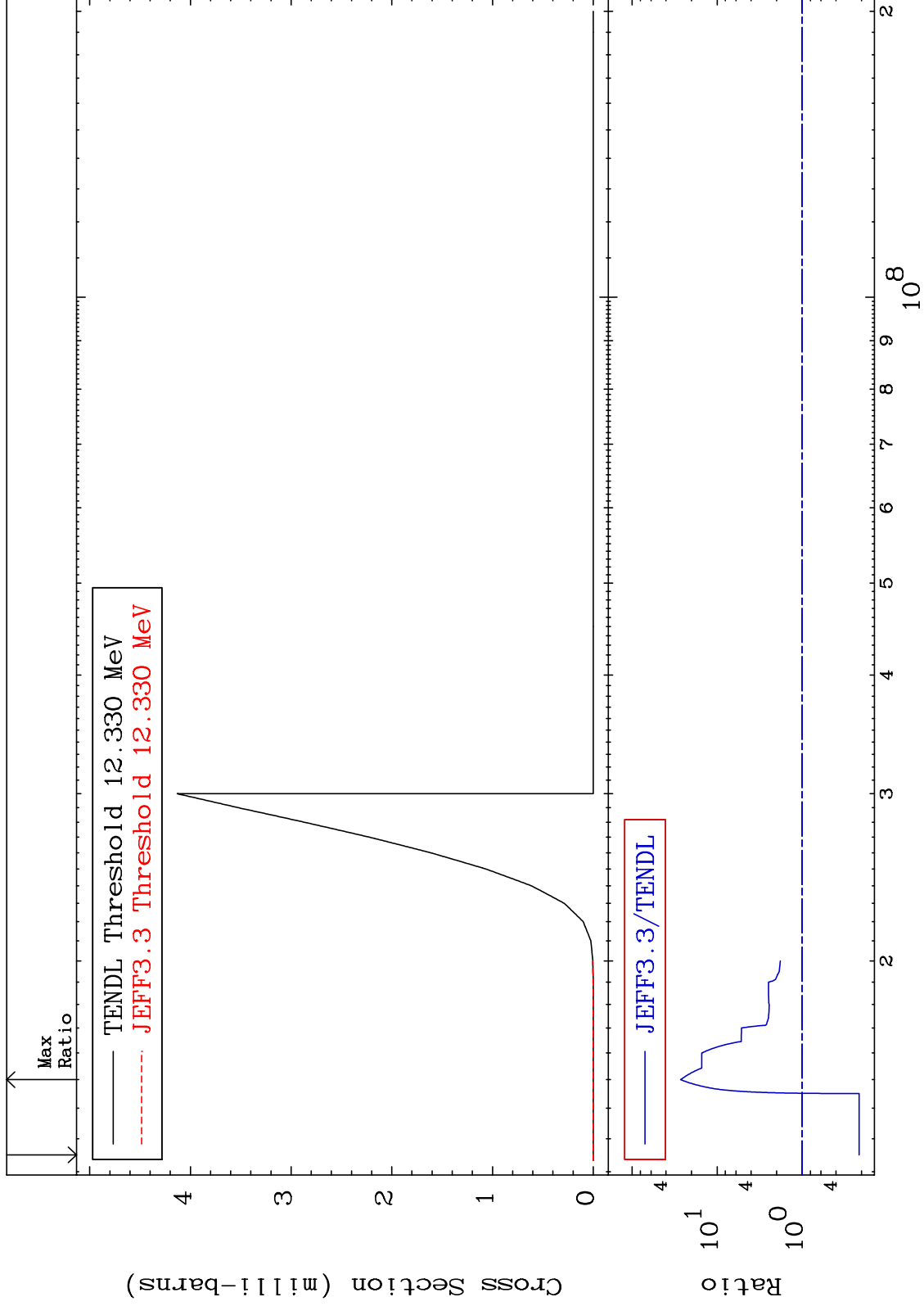
MAT 7234

(n, n') t:71-Lu-174g

72-Hf-177

Radionuclide Production Cross Section

-78.67 To 2590. %

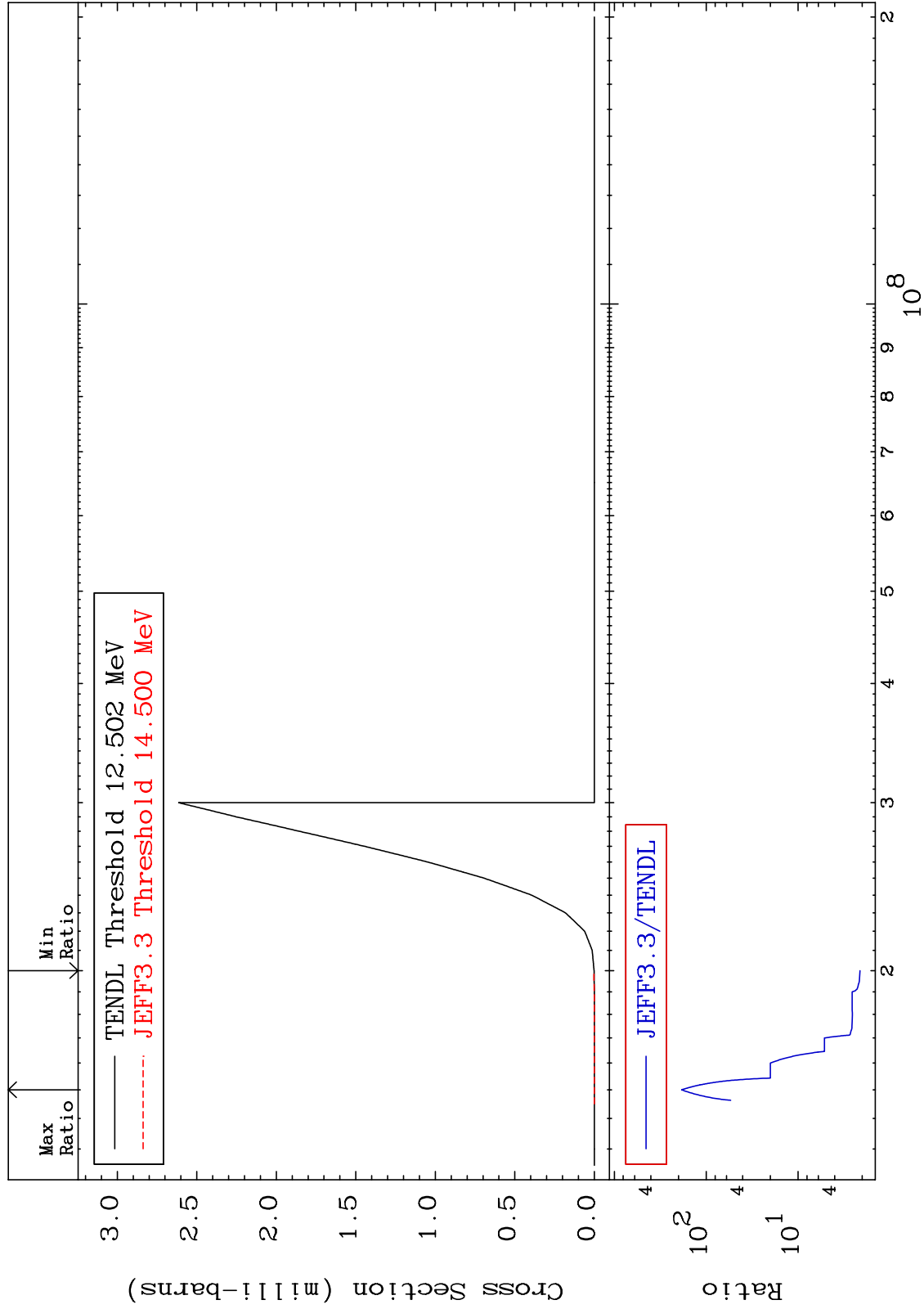


70

Incident Energy (eV)

72-Hf-177

Radionuclide Production Cross Section 111.5 To 9999. %

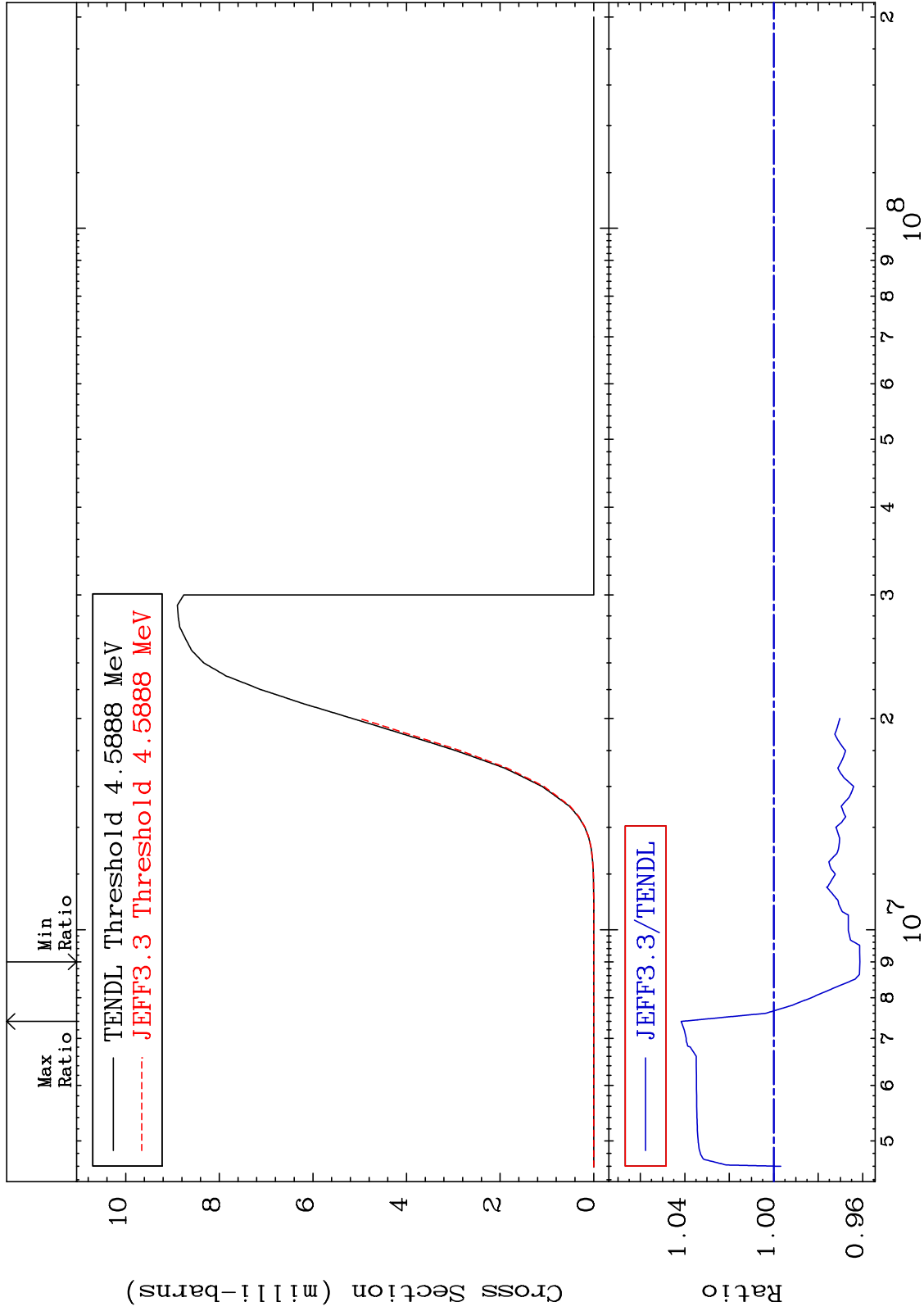


MAT 7234

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

72-Hf-177

Radionuclide Production Cross Section -3.878 To 4.161 %



72

Incident Energy (eV)

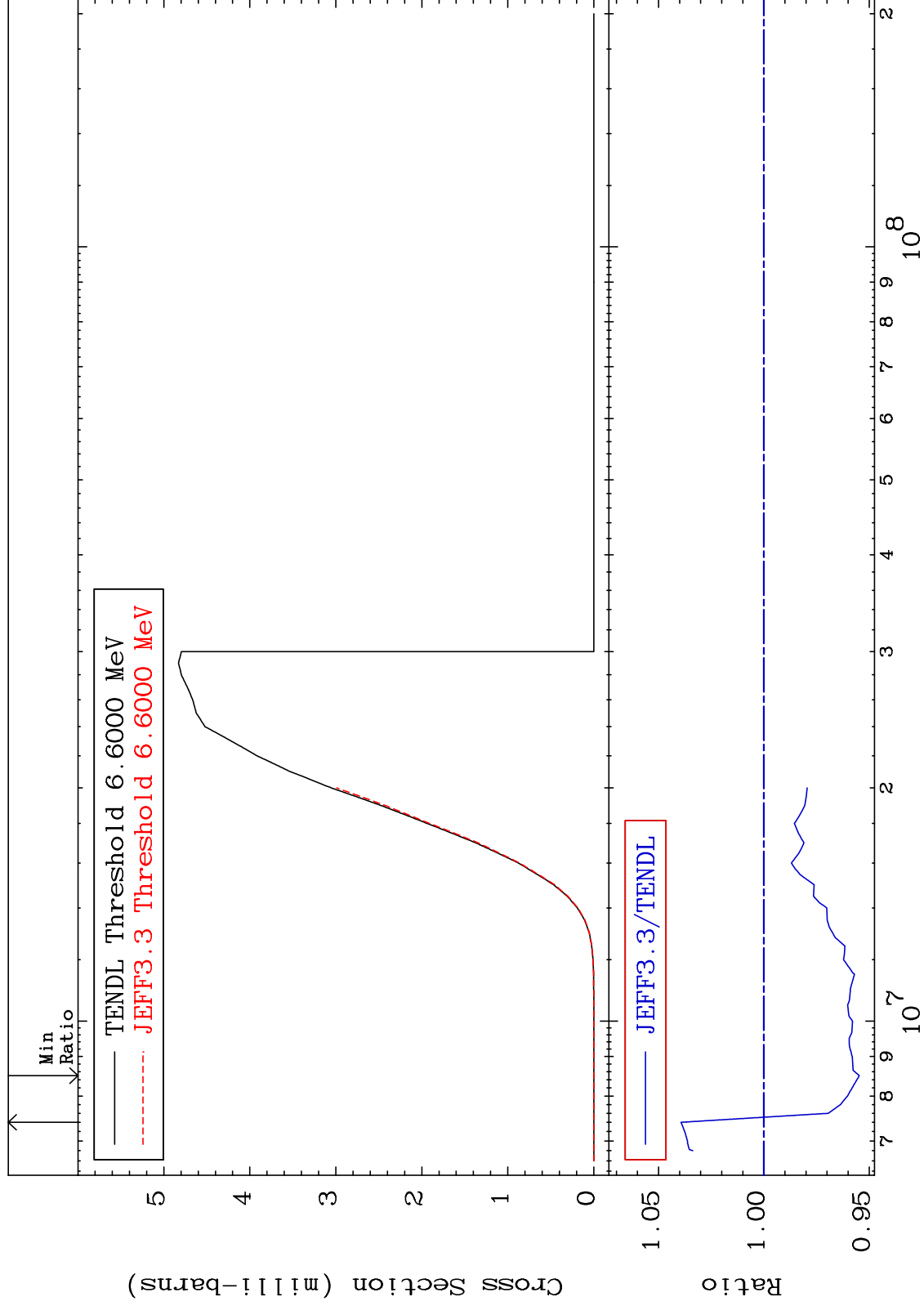
72-Hf-177

MAT 7234

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

72-Hf-177

Radionuclide Production Cross Section -4.531 To 3.932 %



73

Incident Energy (eV)

72-Hf-177