

Program Complot
(Version 2018-1)

by

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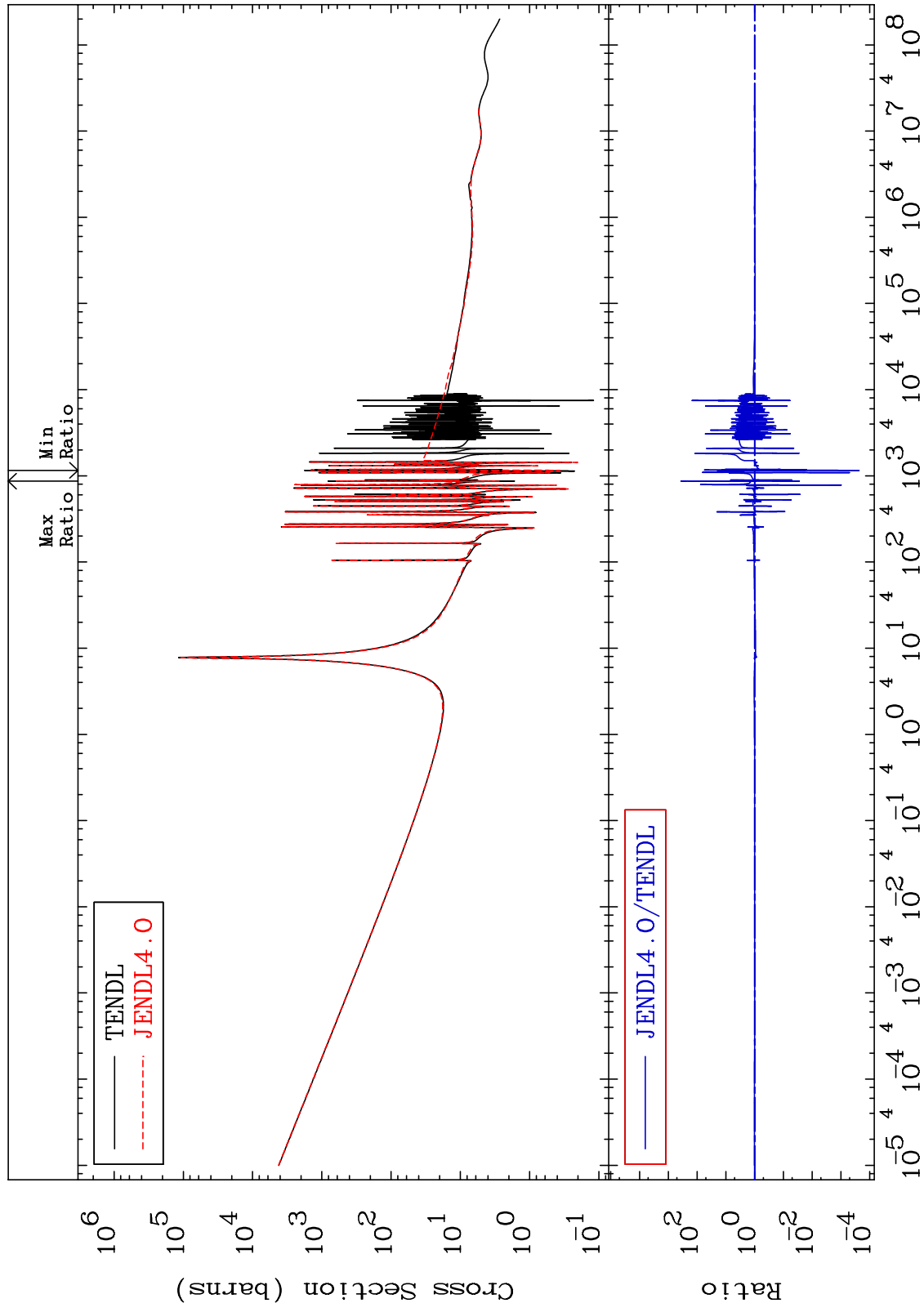
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7237

Total
Cross Section

72-Hf-178
-99.98 To 9999. %



1

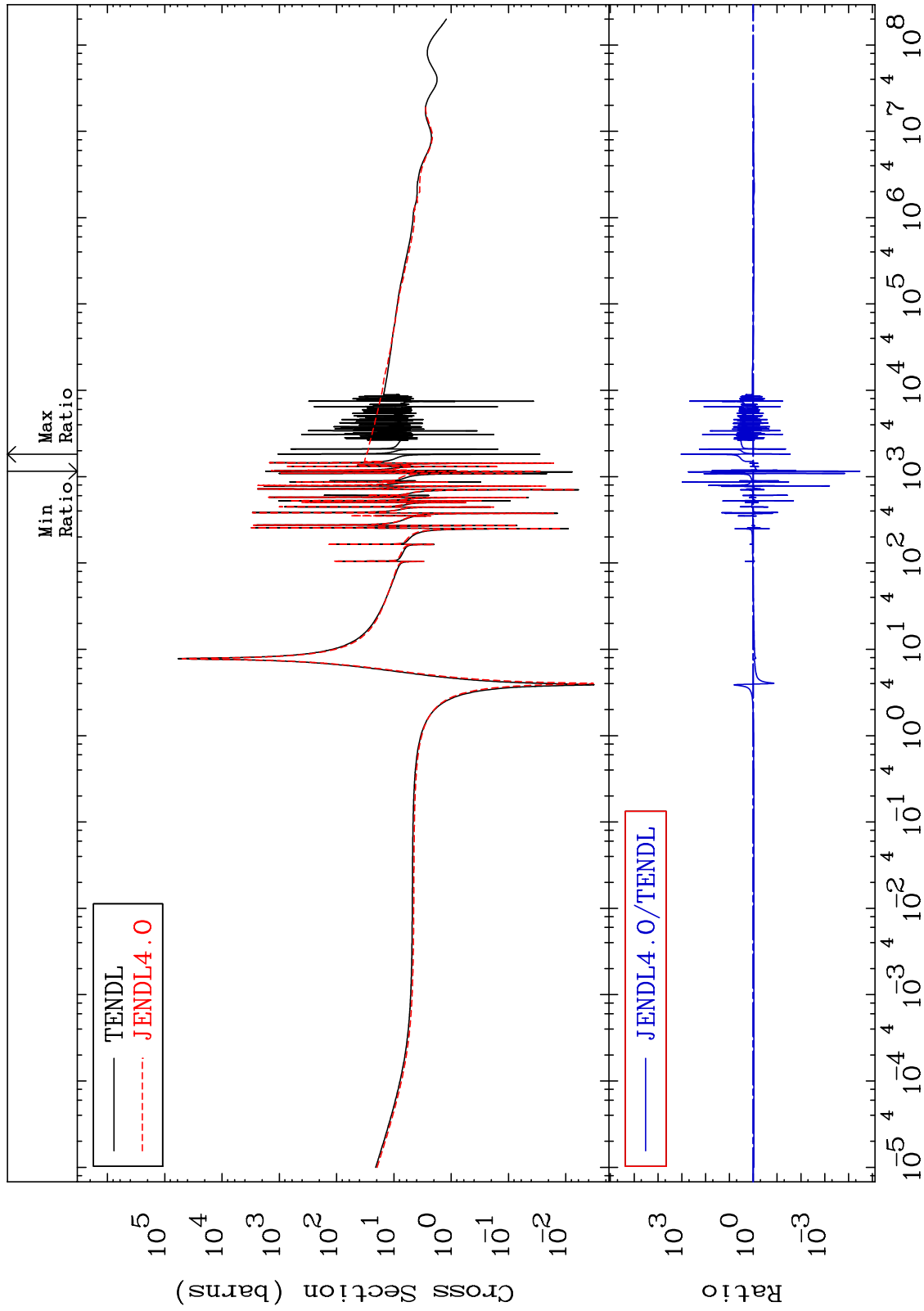
Incident Energy (eV)

72-Hf-178

MAT 7237

Elastic
Cross Section

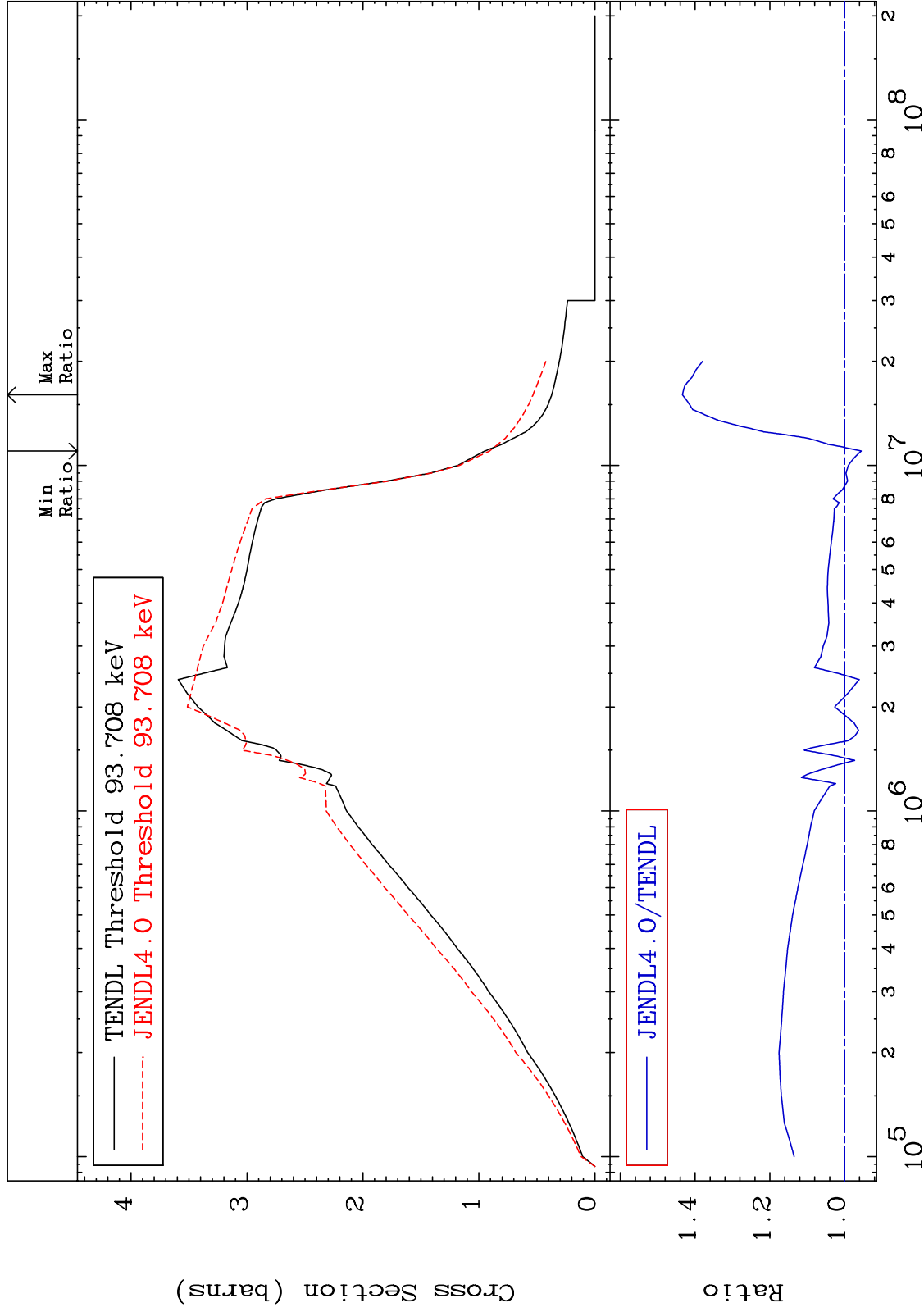
72-Hf-178
-100.0 To 9999. %



MAT 7237

Inelastic
Cross Section

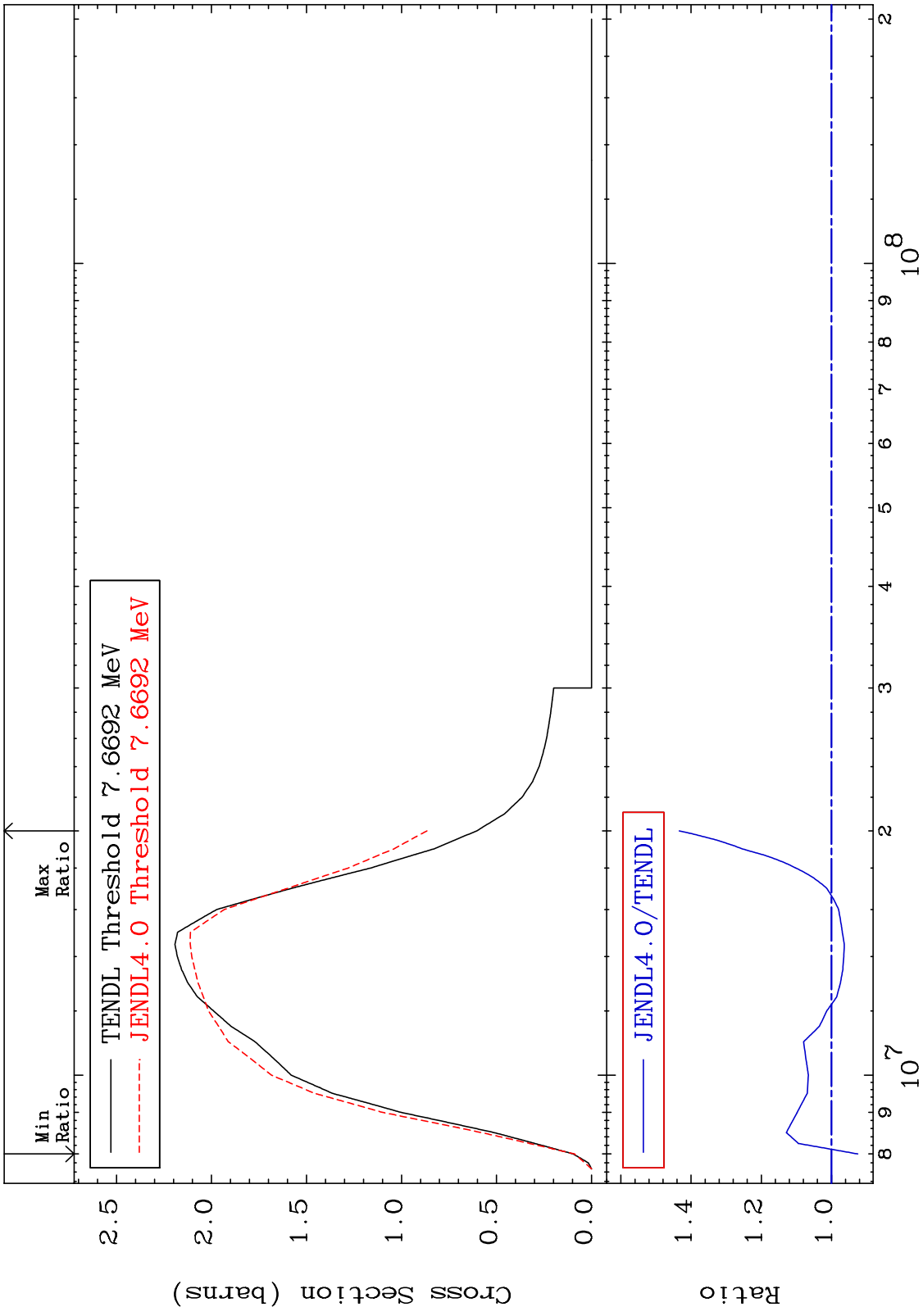
72-Hf-178
-4.463 To 43.38 %



Incident Energy (eV)

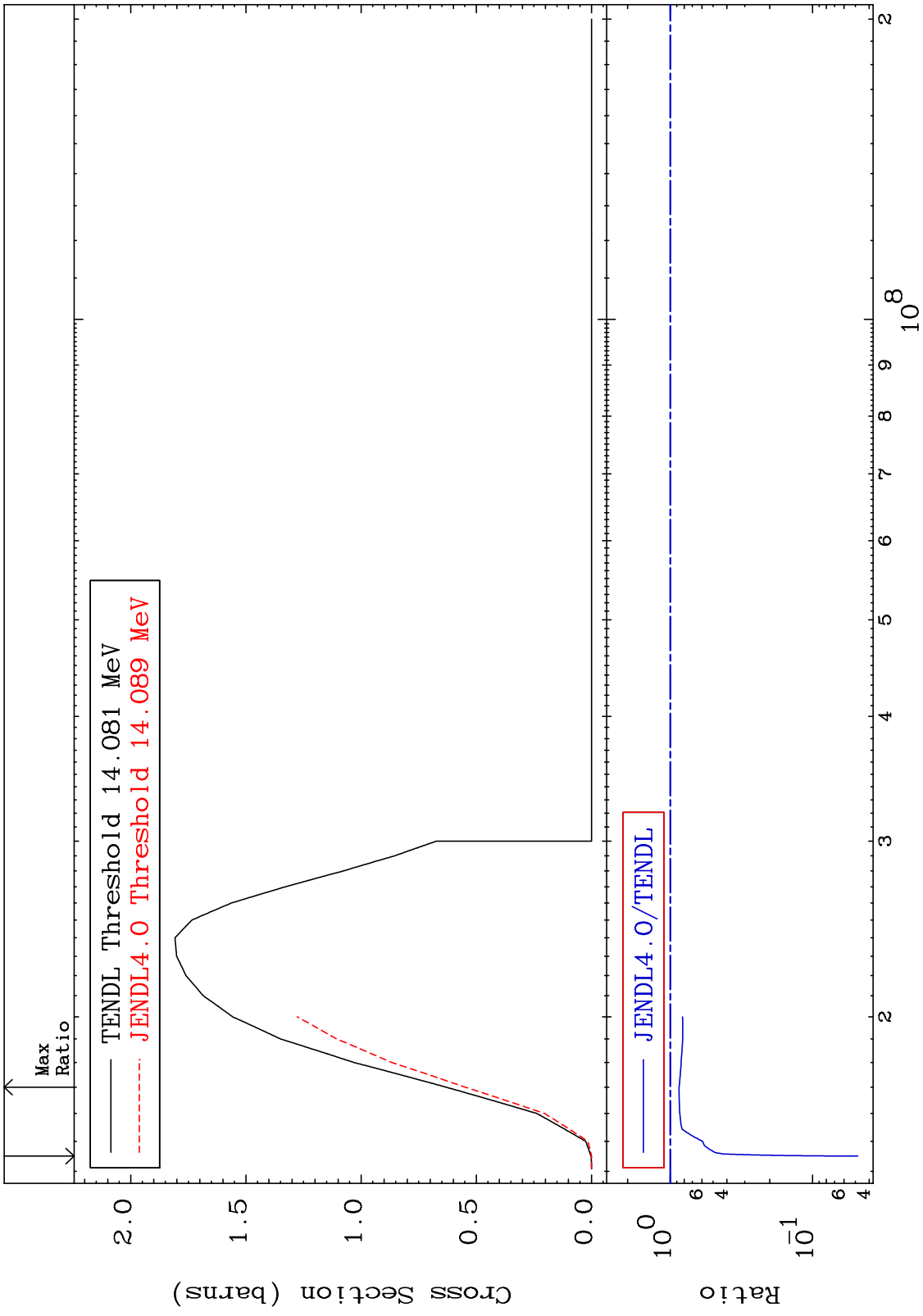
72-Hf-178

MAT 7237 (n,2n) 72-Hf-178
 Cross Section -7.513 To 43.43 %



4 Incident Energy (eV) 72-Hf-178

MAT 7237 (n,3n) Cross Section 72-Hf-178 -95.19 To -13.15%



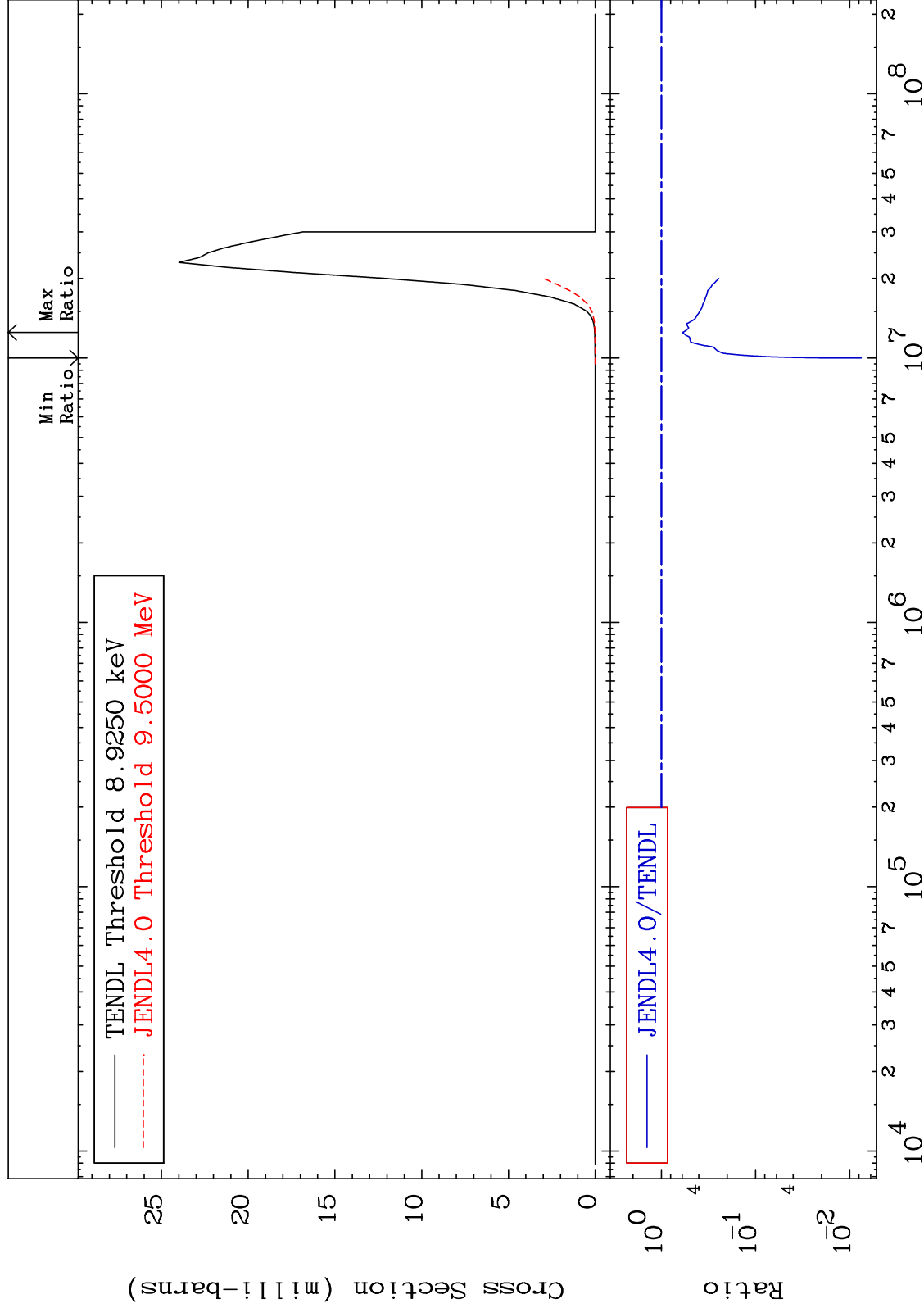
MAT 7237

(n, n') α

72-Hf-178

Cross Section

-99.25 To -40.59%



6

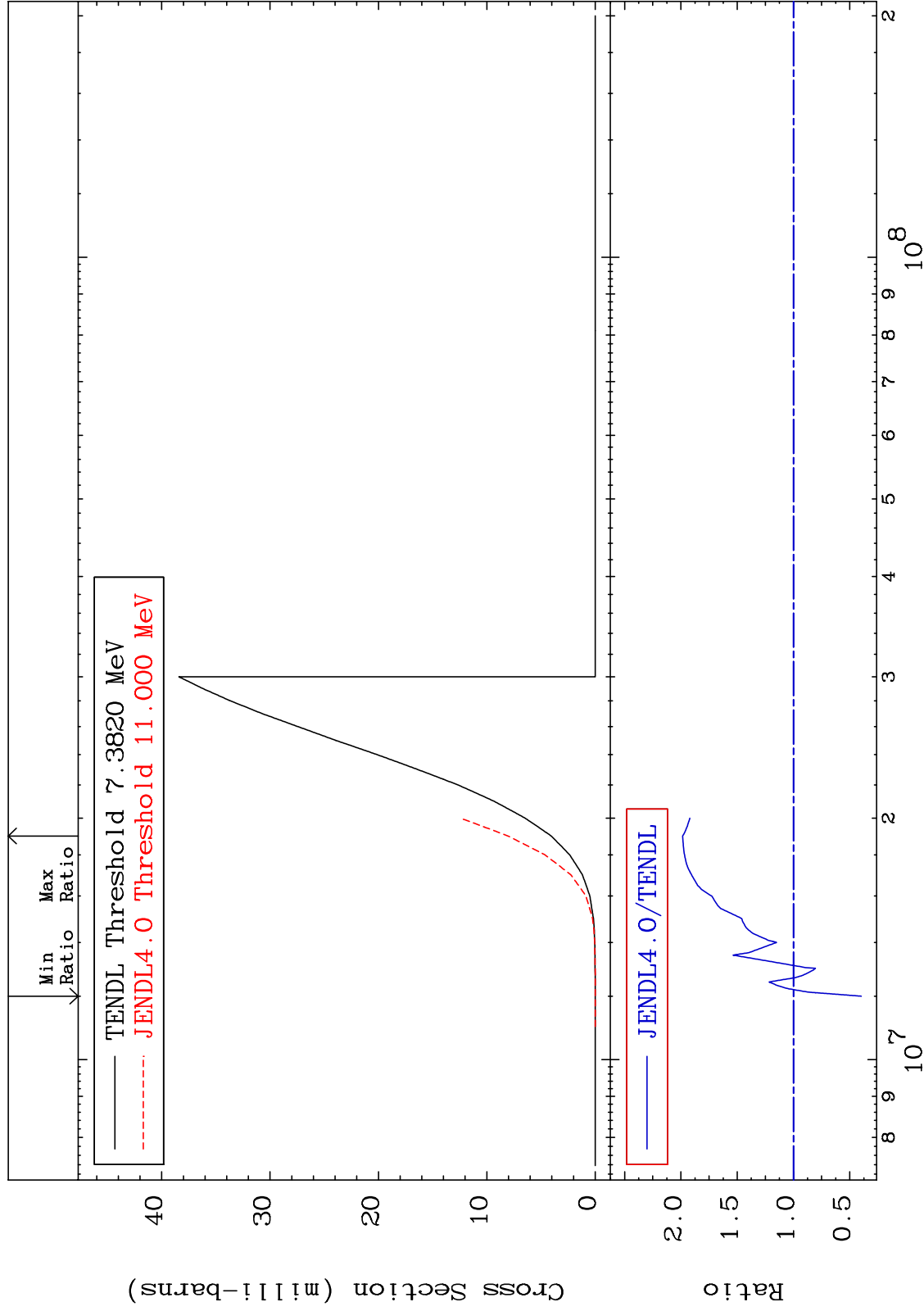
Incident Energy (eV)

72-Hf-178

MAT 7237

(n,n') p
Cross Section

72-Hf-178
-60.30 To 98.44 %

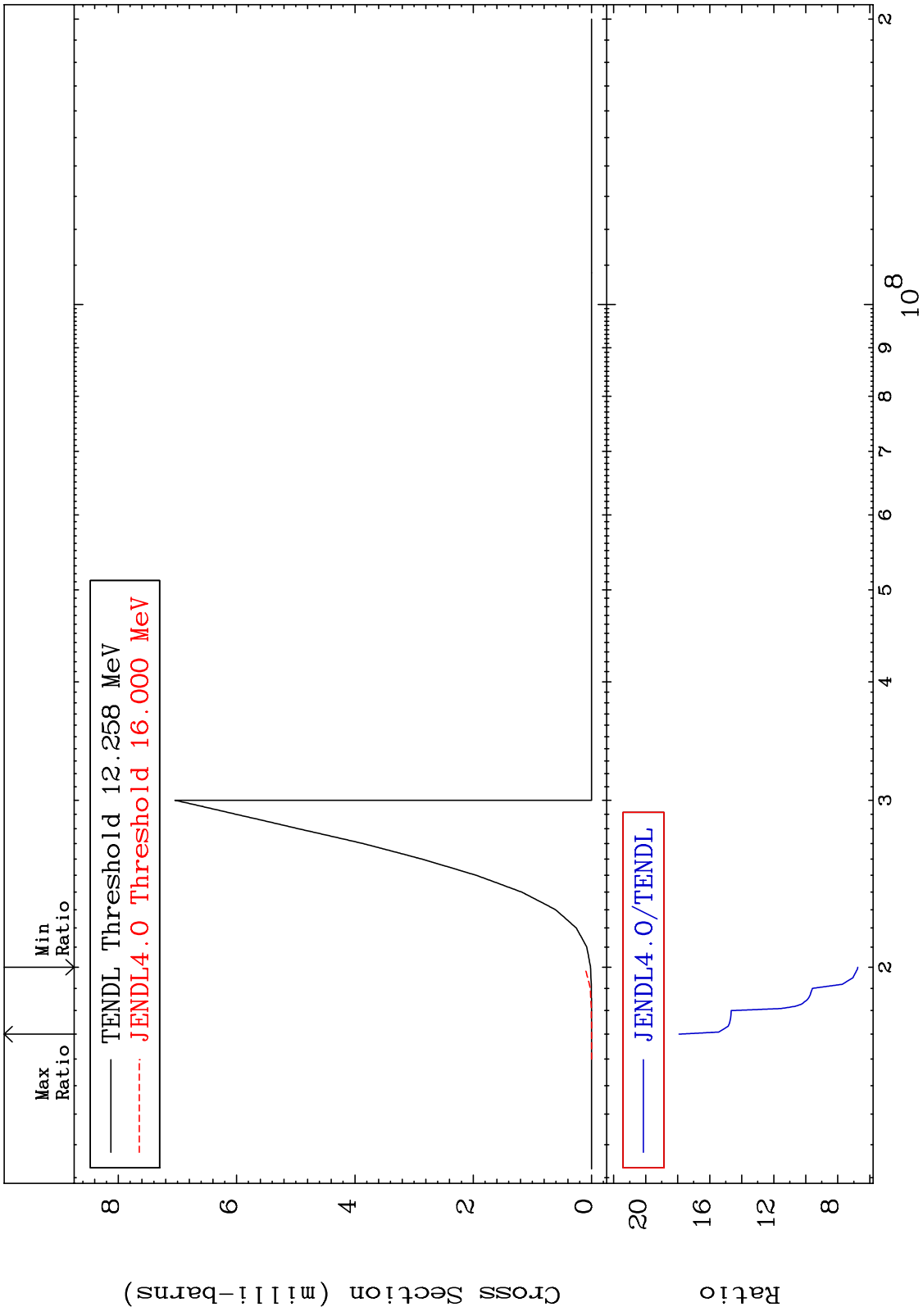


7

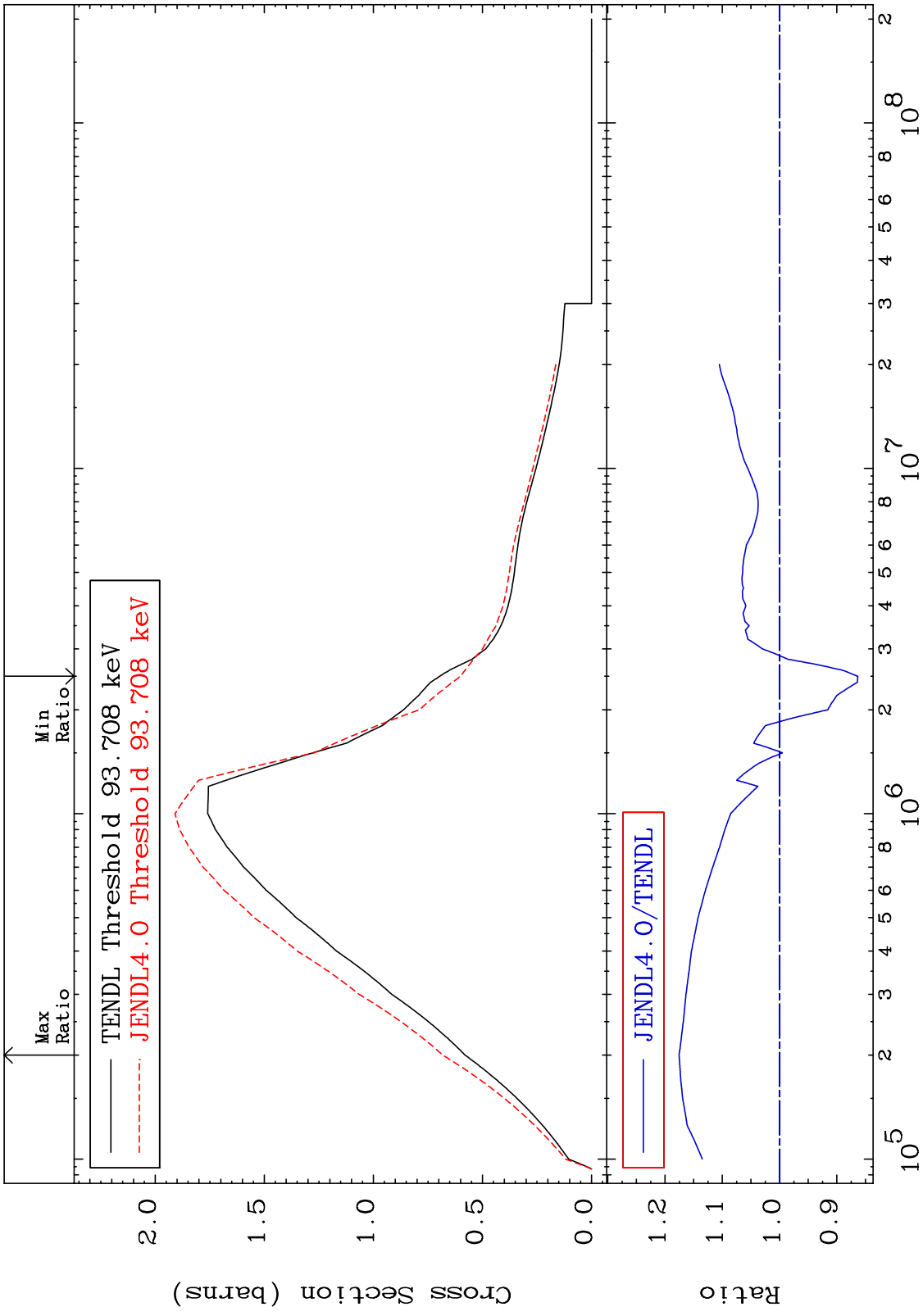
Incident Energy (eV)

72-Hf-178

MAT 7237 (n,n') d 72-Hf-178
 Cross Section 574.6 To 1692. %

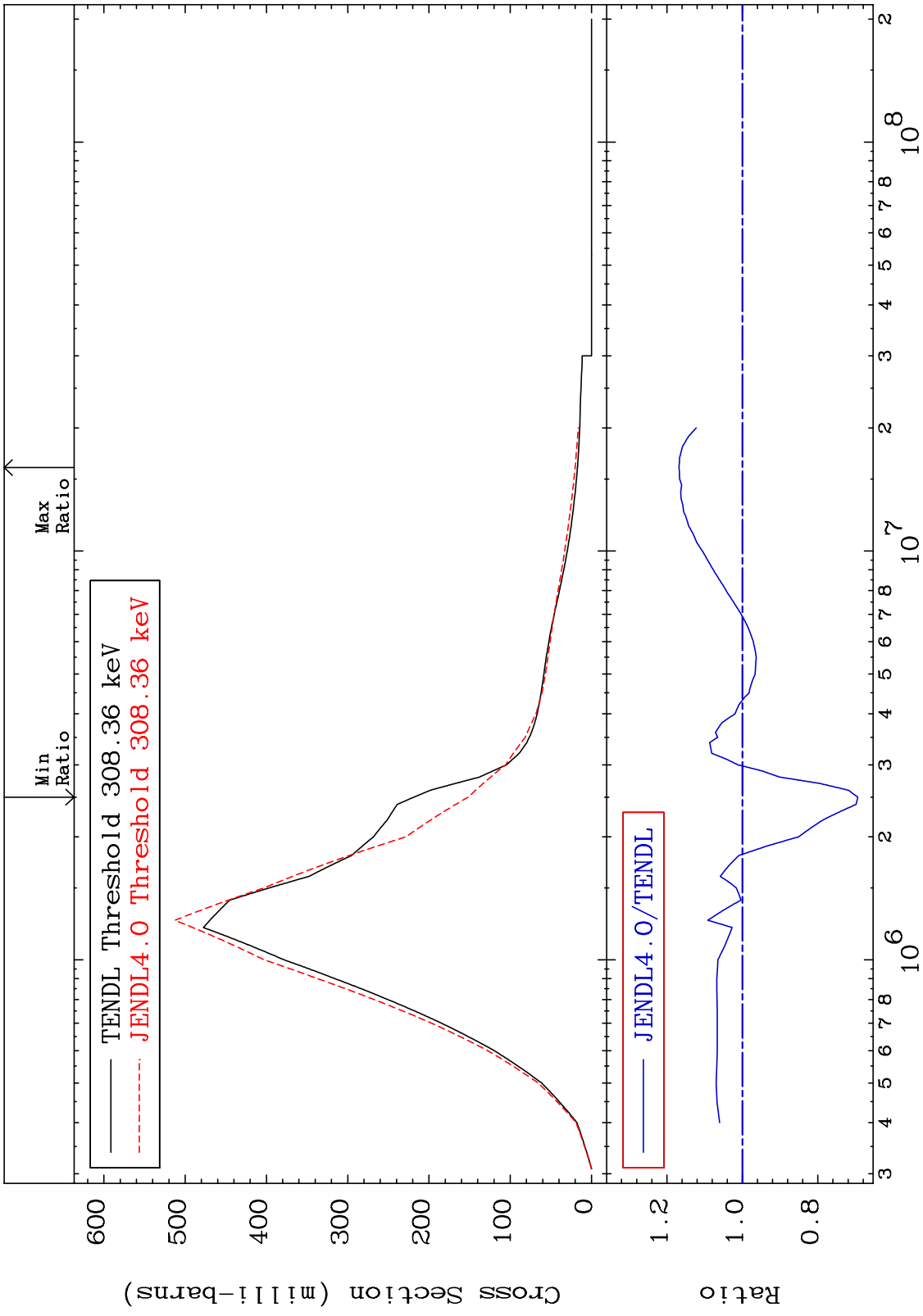


MAT 7237 MT= 51 (n,n') Level Cross Section 72-Hf-178
 -13.65 To 17.56 %



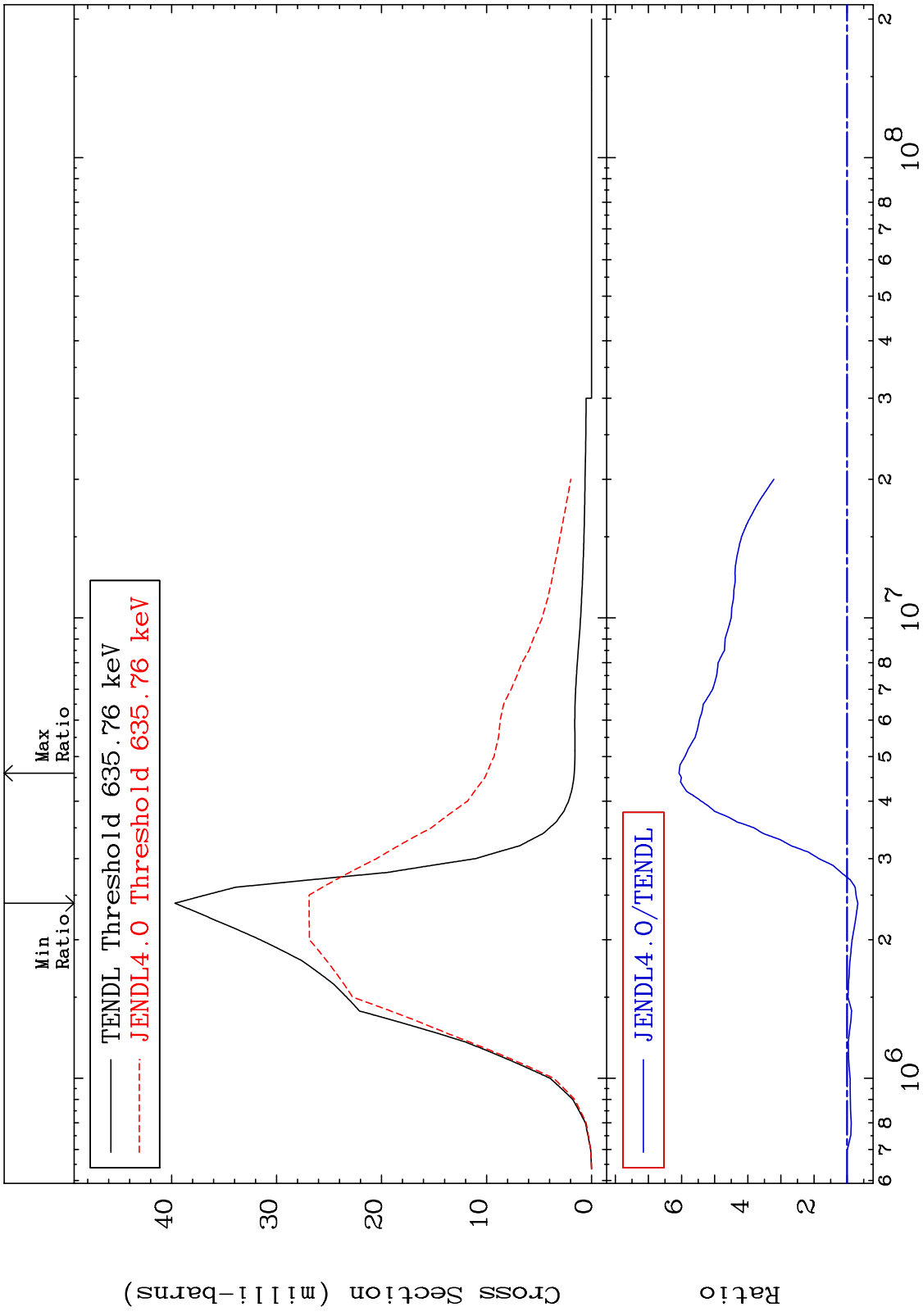
Incident Energy (eV) 72-Hf-178

MAT 7237 MT= 52 (n,n') Level Cross Section 72-Hf-178
 -30.59 To 16.78 %



10 72-Hf-178

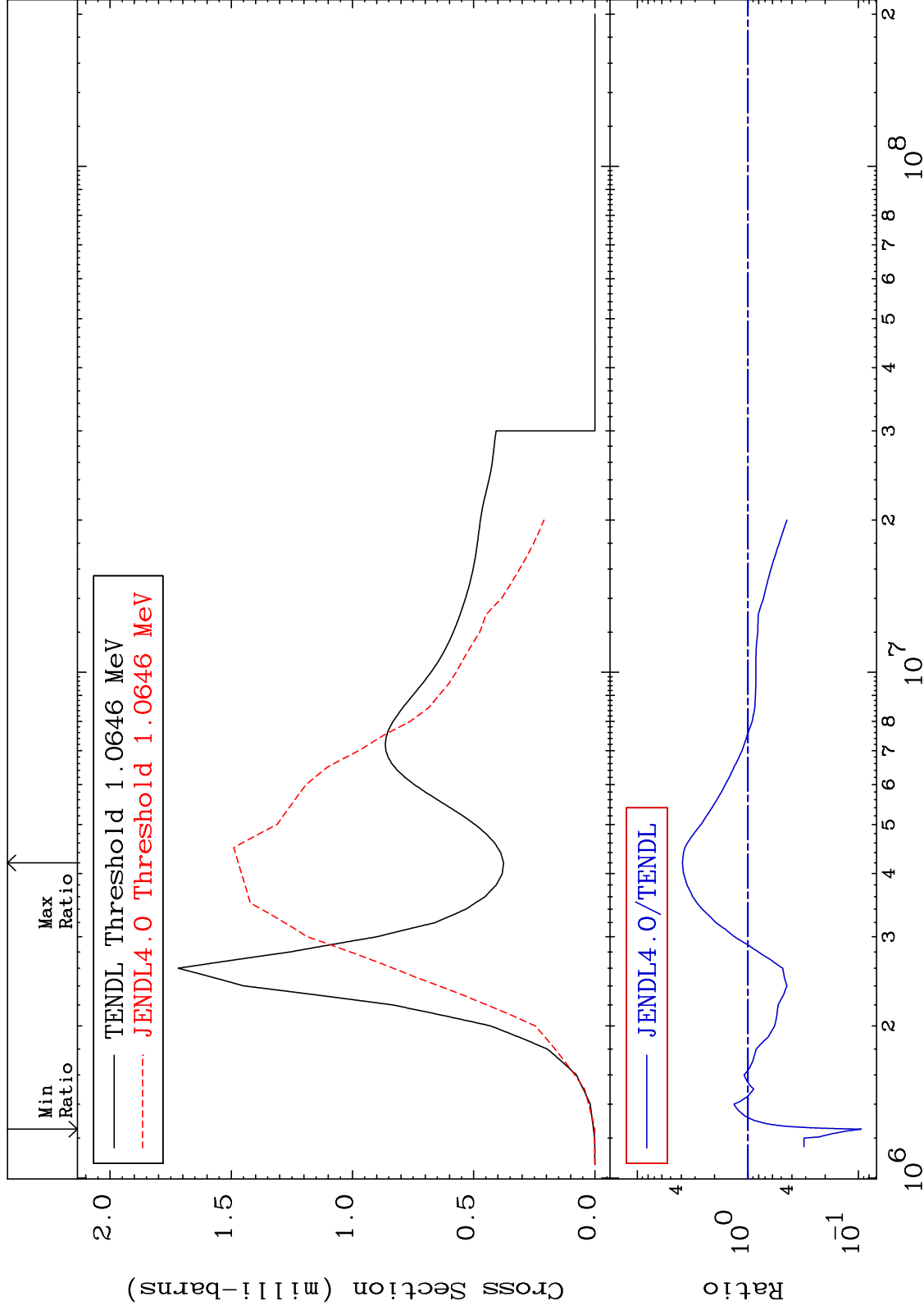
MAT 7237 MT= 53 (n,n') Level Cross Section 72-Hf-178
 -32.20 To 507.6 %



MAT 7237

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

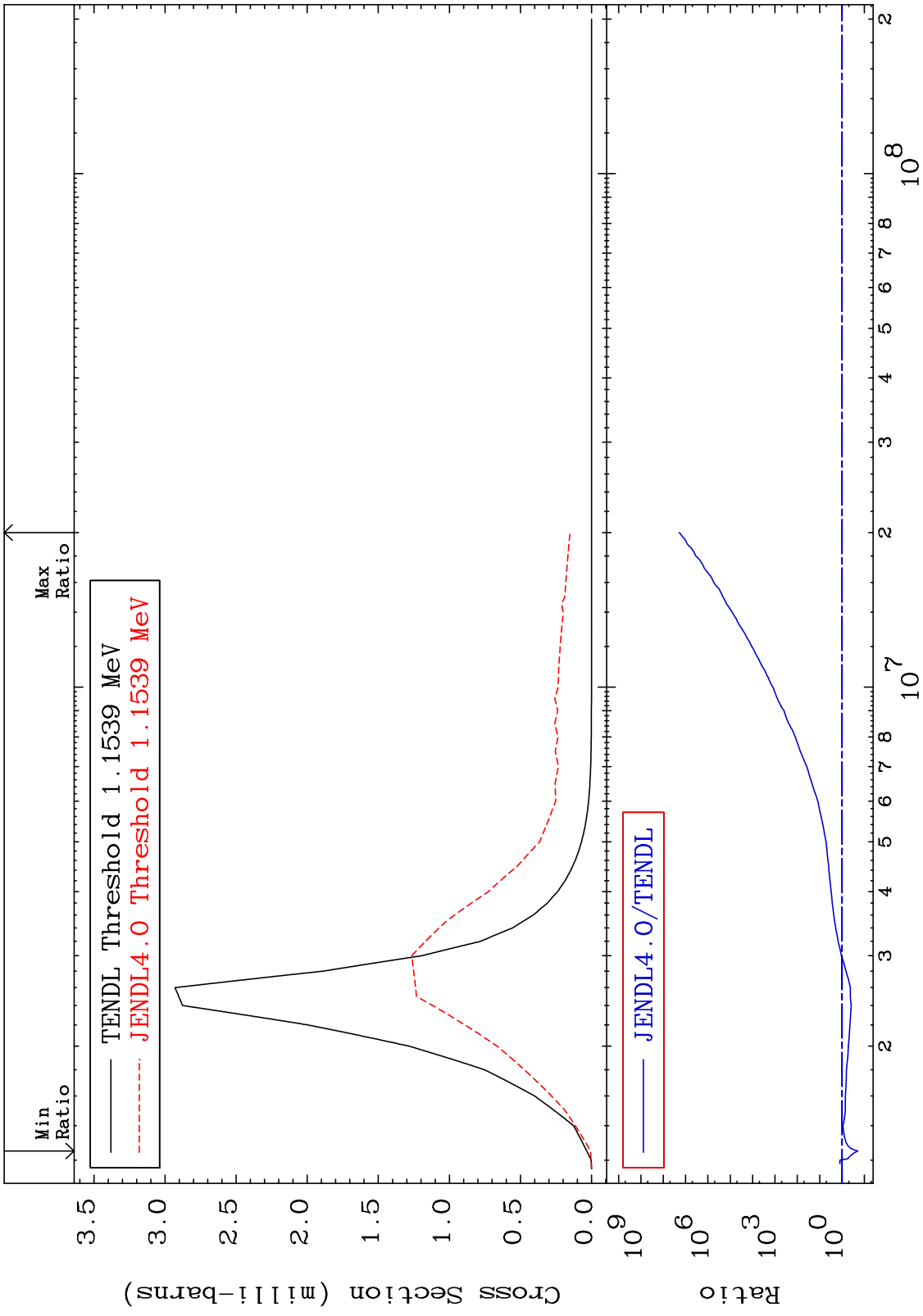
72-Hf-178
-90.57 To 290.3 %



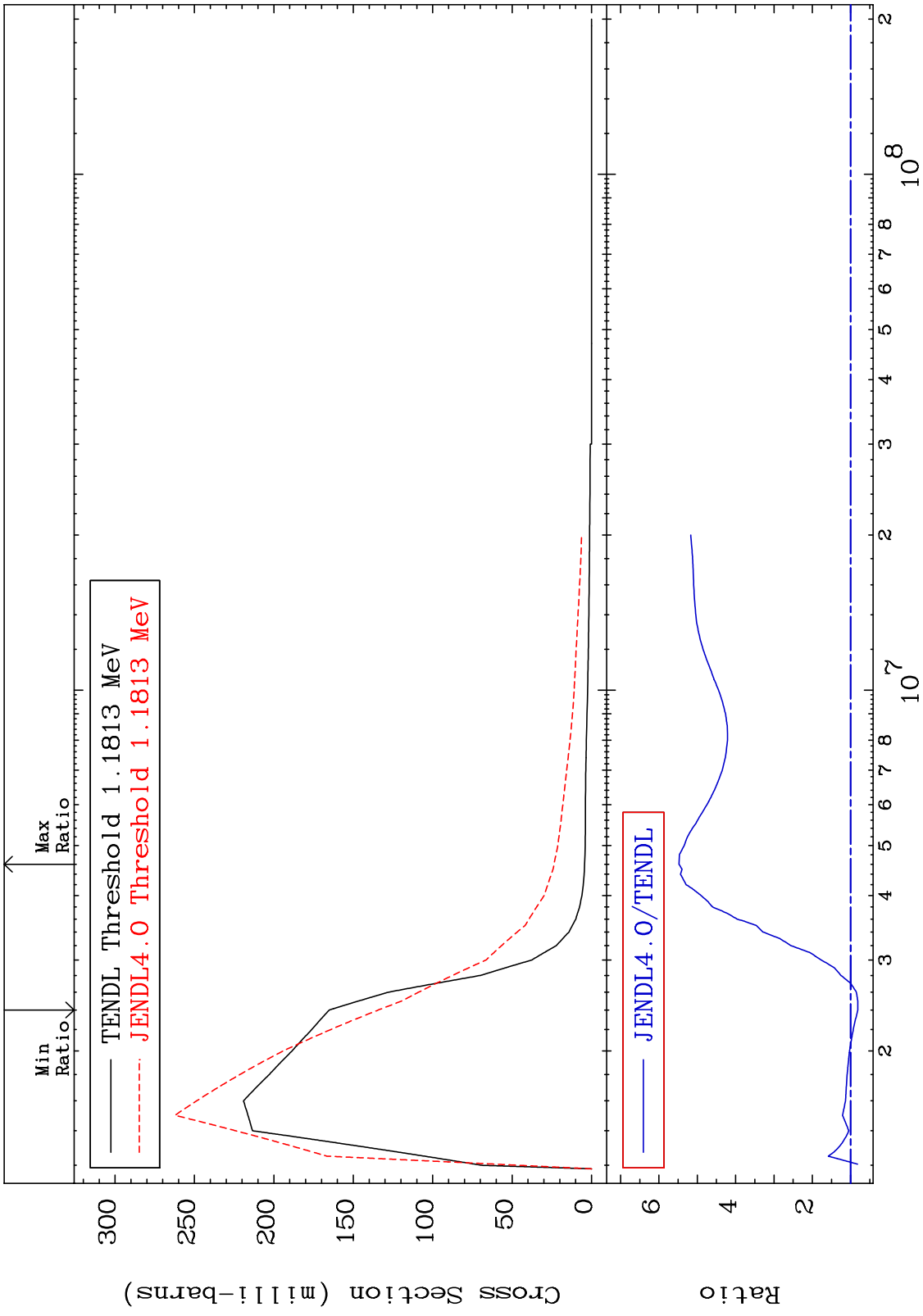
12

72-Hf-178

MAT 7237 MT= 55 (n,n') Level Cross Section 72-Hf-178
 -80.45 To 9999. %



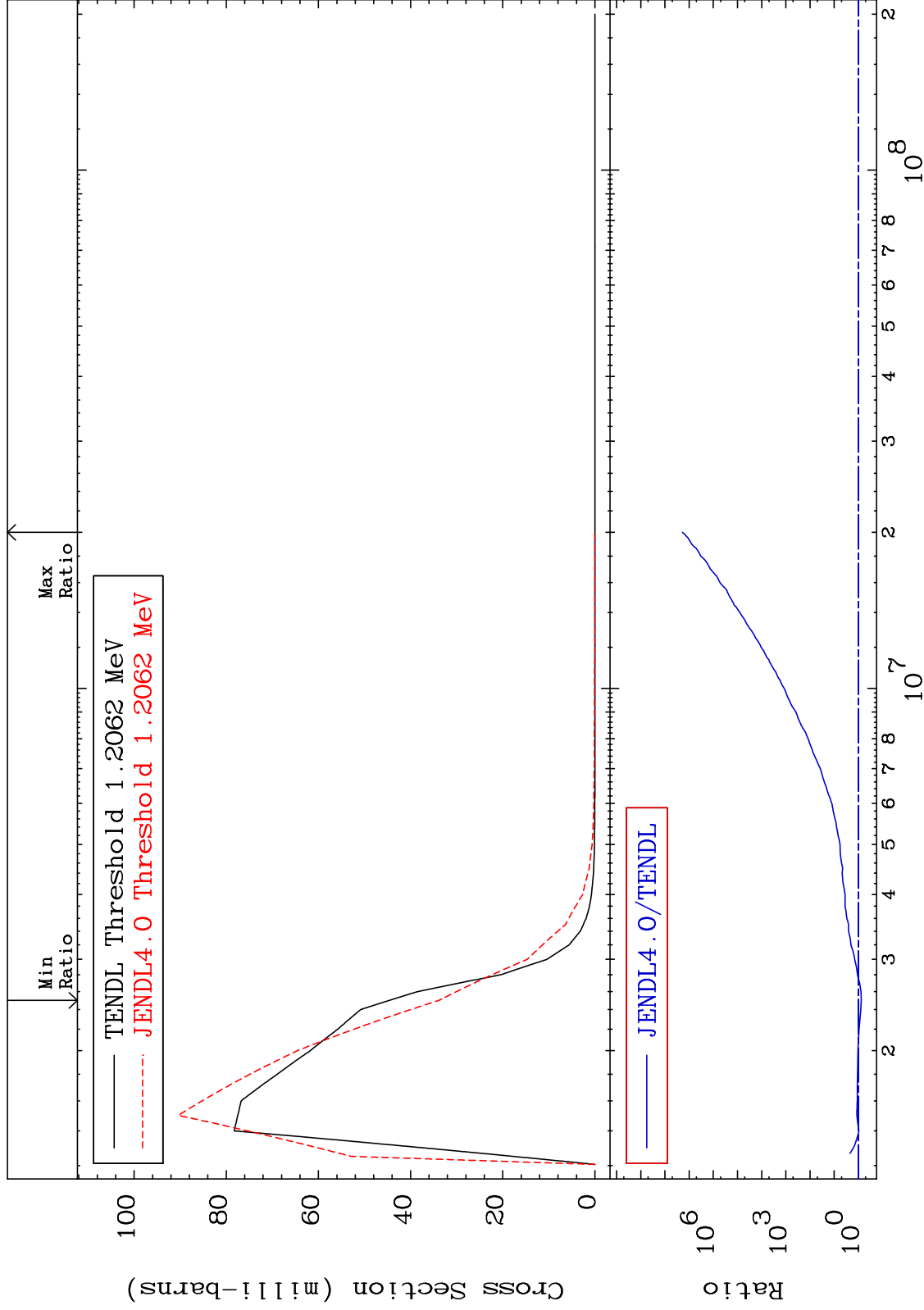
MAT 7237 MT= 56 (n,n') Level Cross Section 72-Hf-178 -18.72 To 447.6 %



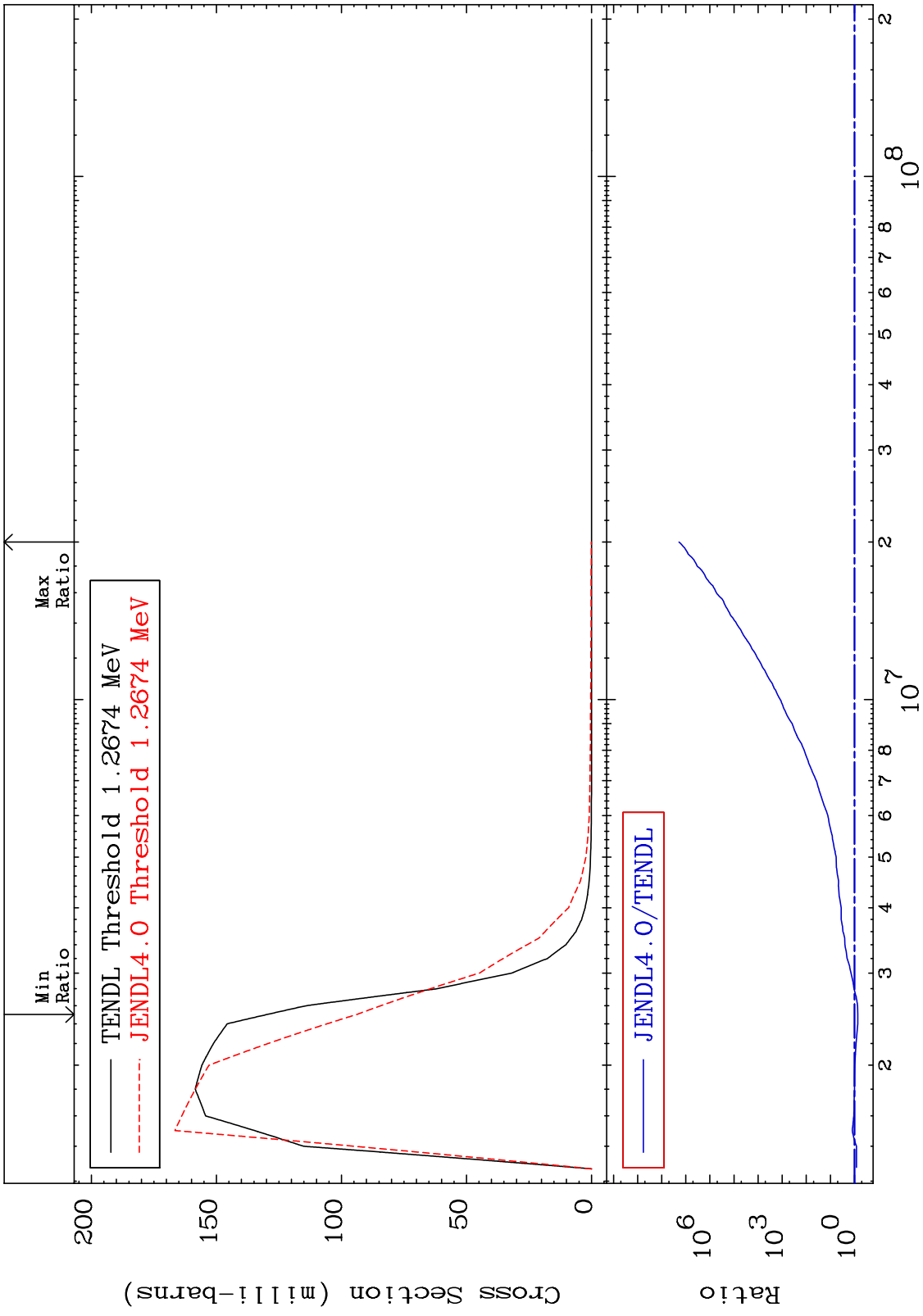
MAT 7237

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

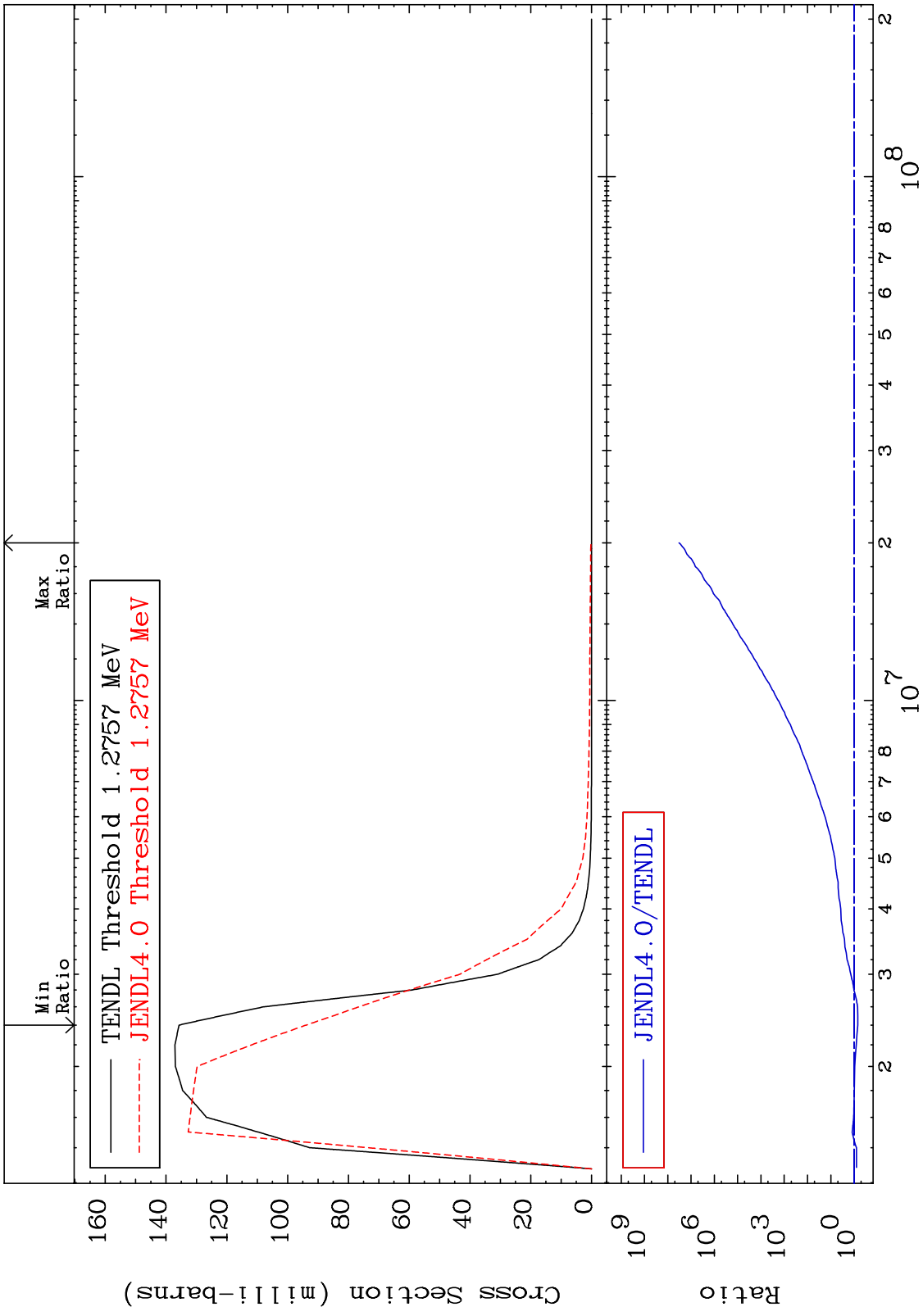
72-Hf-178
-24.14 To 9999. %



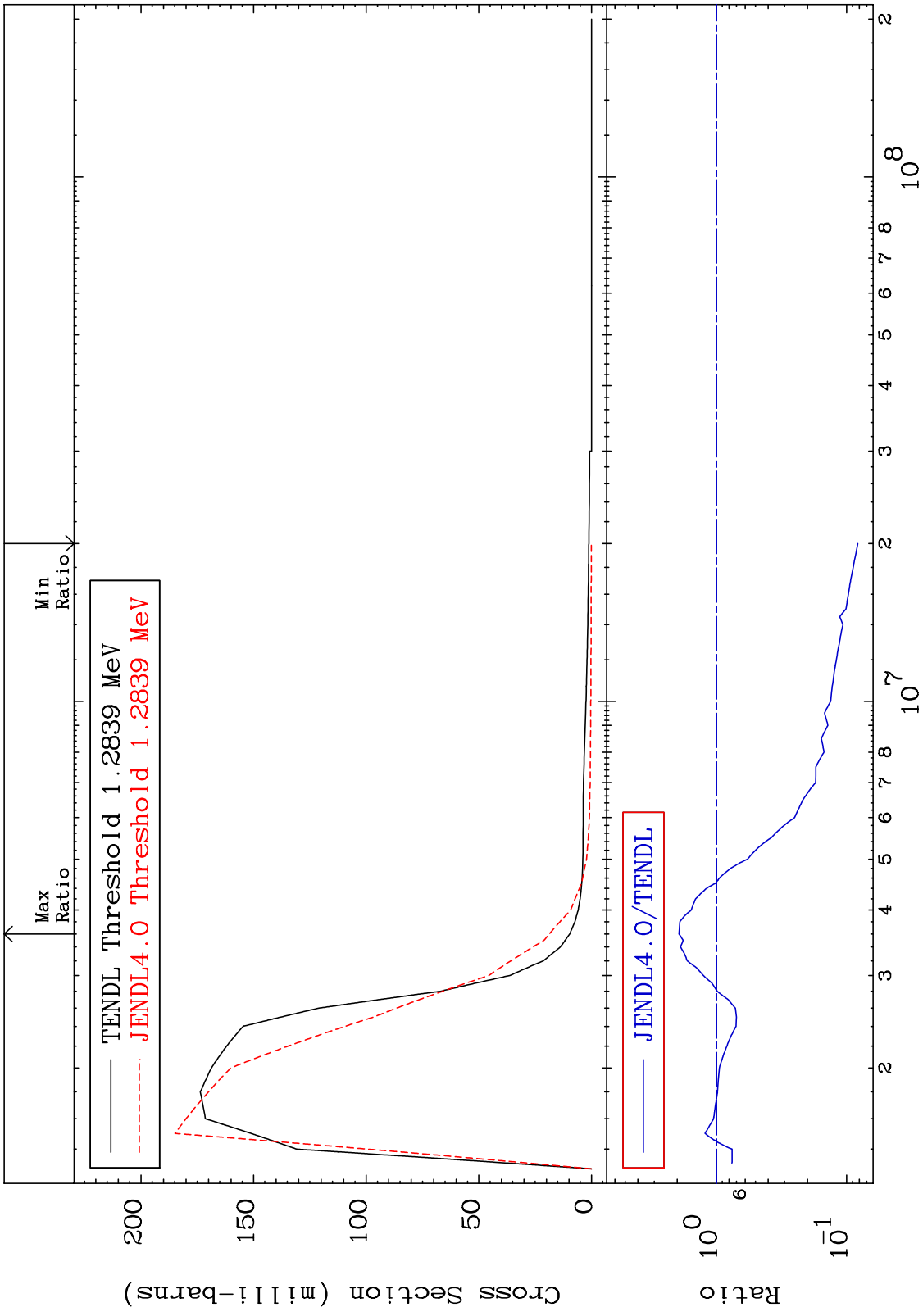
MAT 7237 MT= 58 (n,n') Level Cross Section 72-Hf-178
 -27.61 To 9999. %



MAT 7237 MT= 59 (n,n') Level Cross Section 72-Hf-178
 -30.82 To 9999. %



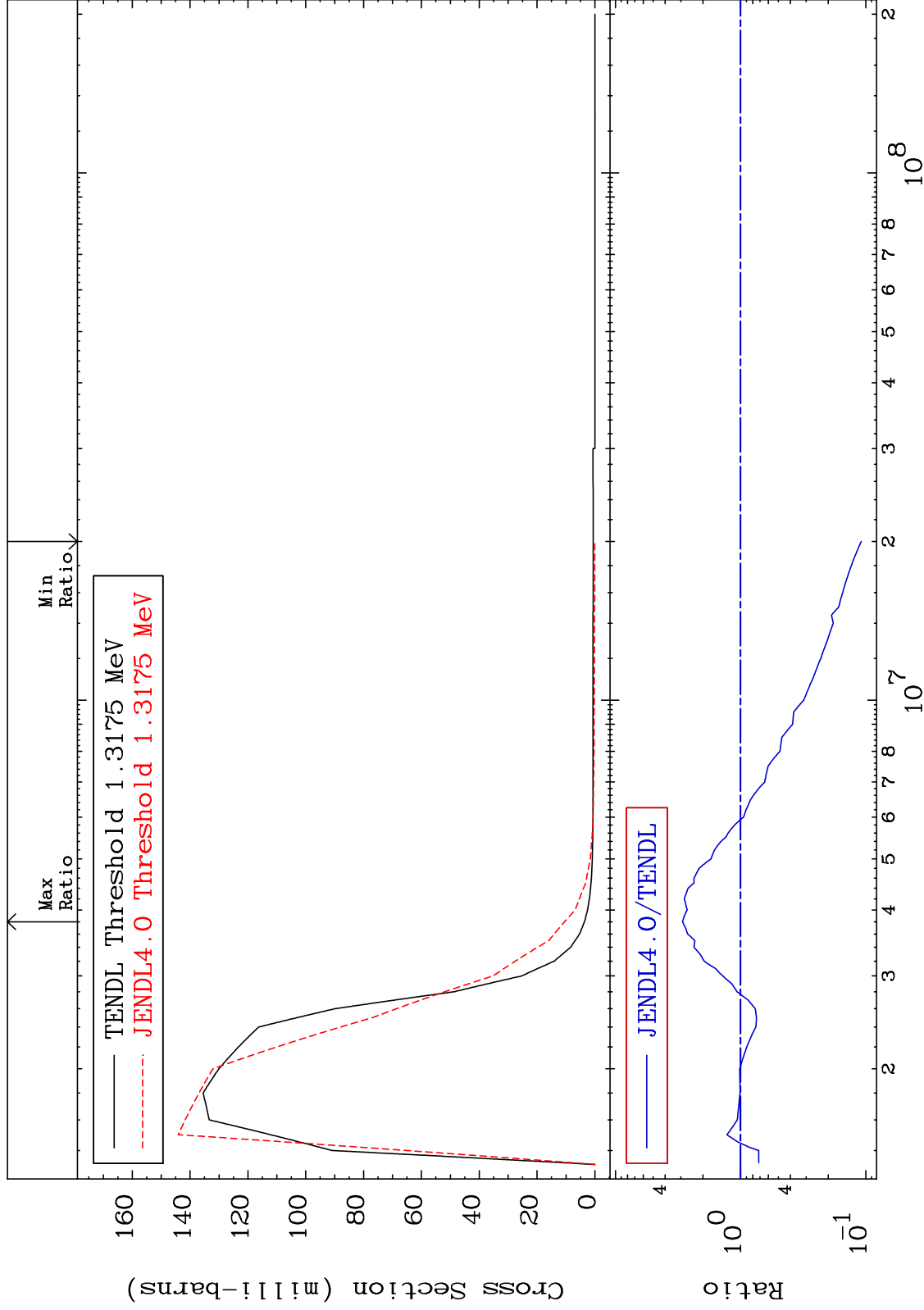
MAT 7237 MT= 60 (n,n') Level Cross Section 72-Hf-178 -91.79 To 93.39 %



MAT 7237

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

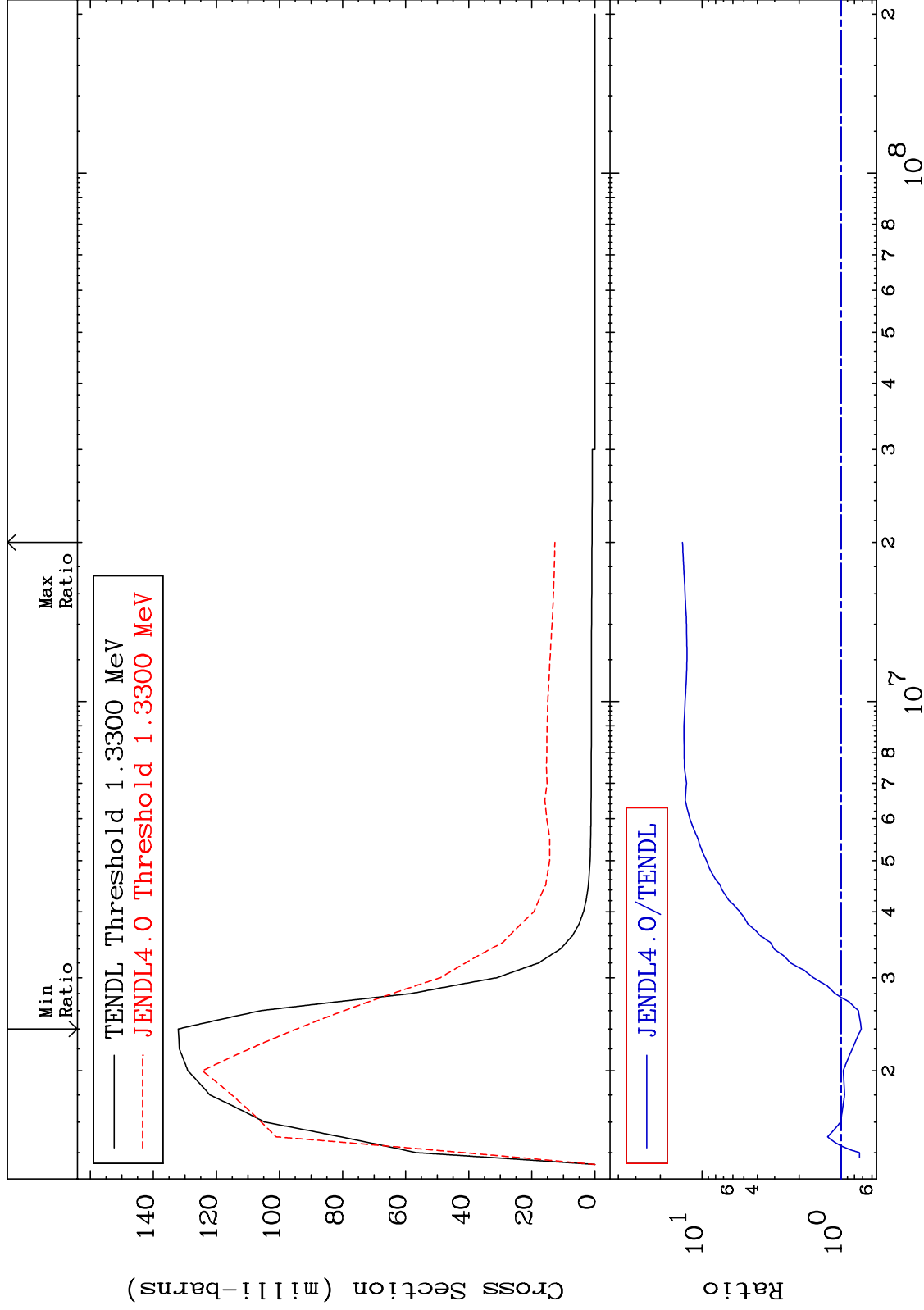
72-Hf-178
-89.12 To 191.3 %



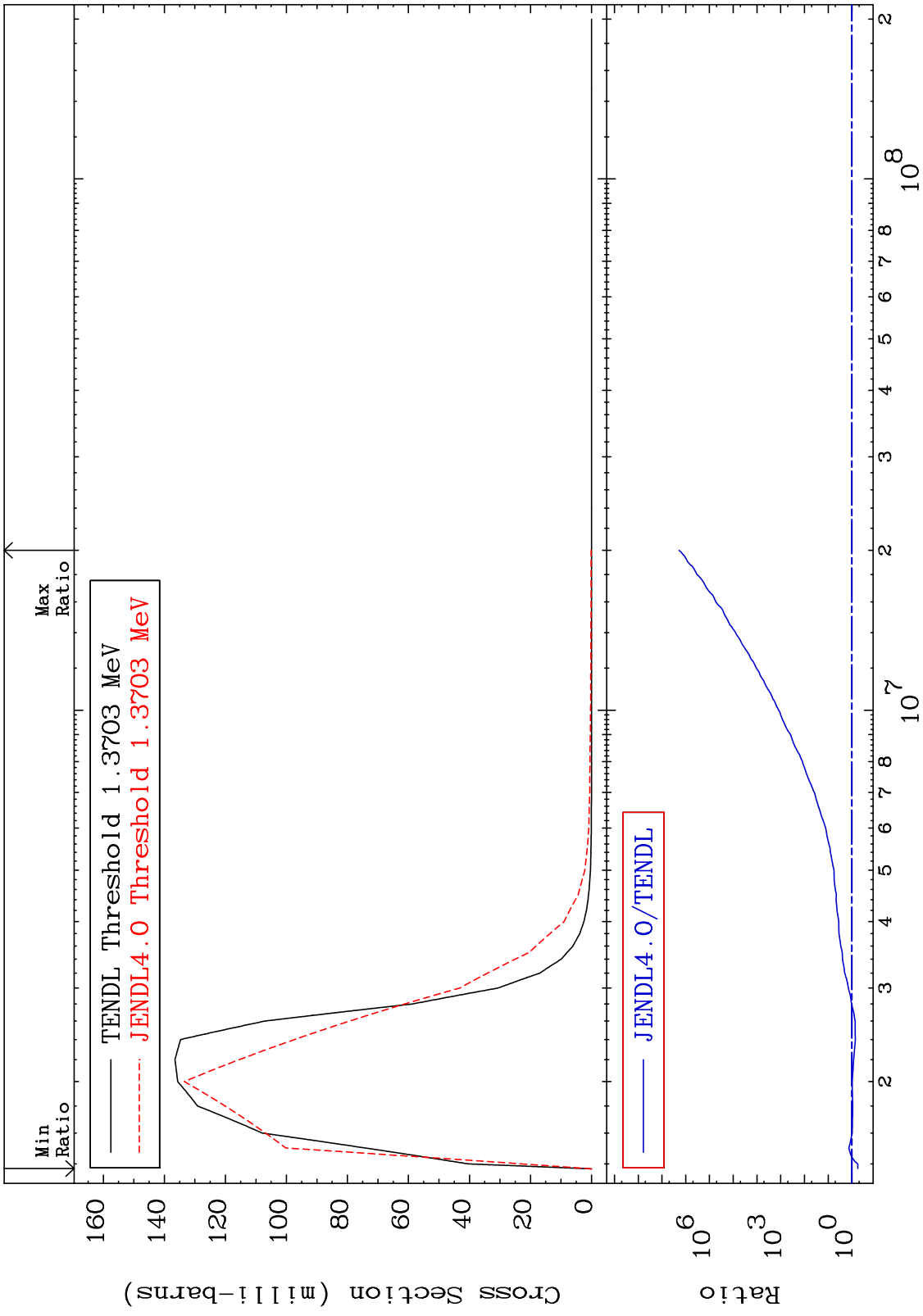
MAT 7237

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

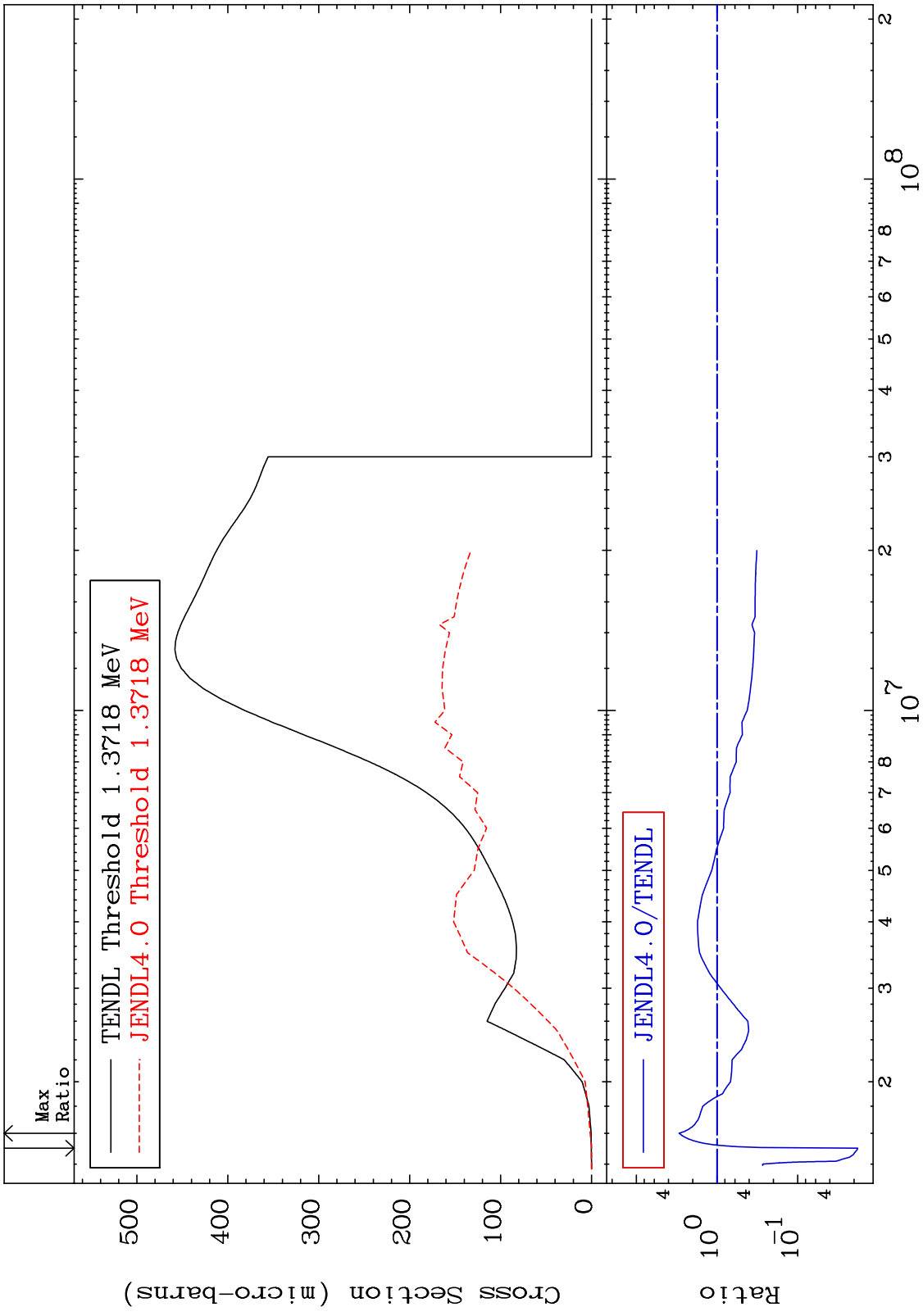
72-Hf-178
-28.43 To 1283. %



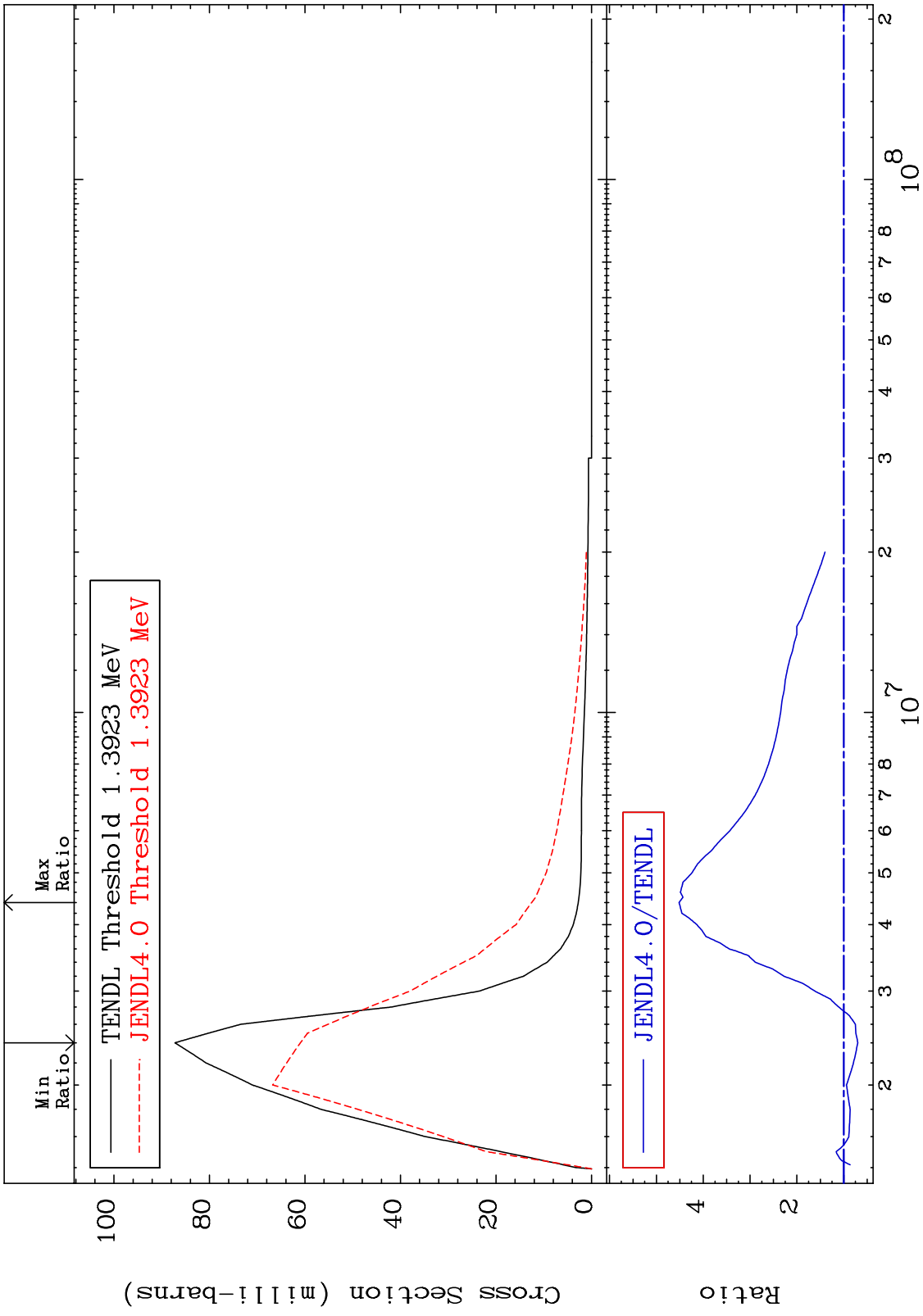
MAT 7237 MT= 63 (n,n') Level Cross Section 72-Hf-178
 -43.38 To 9999. %



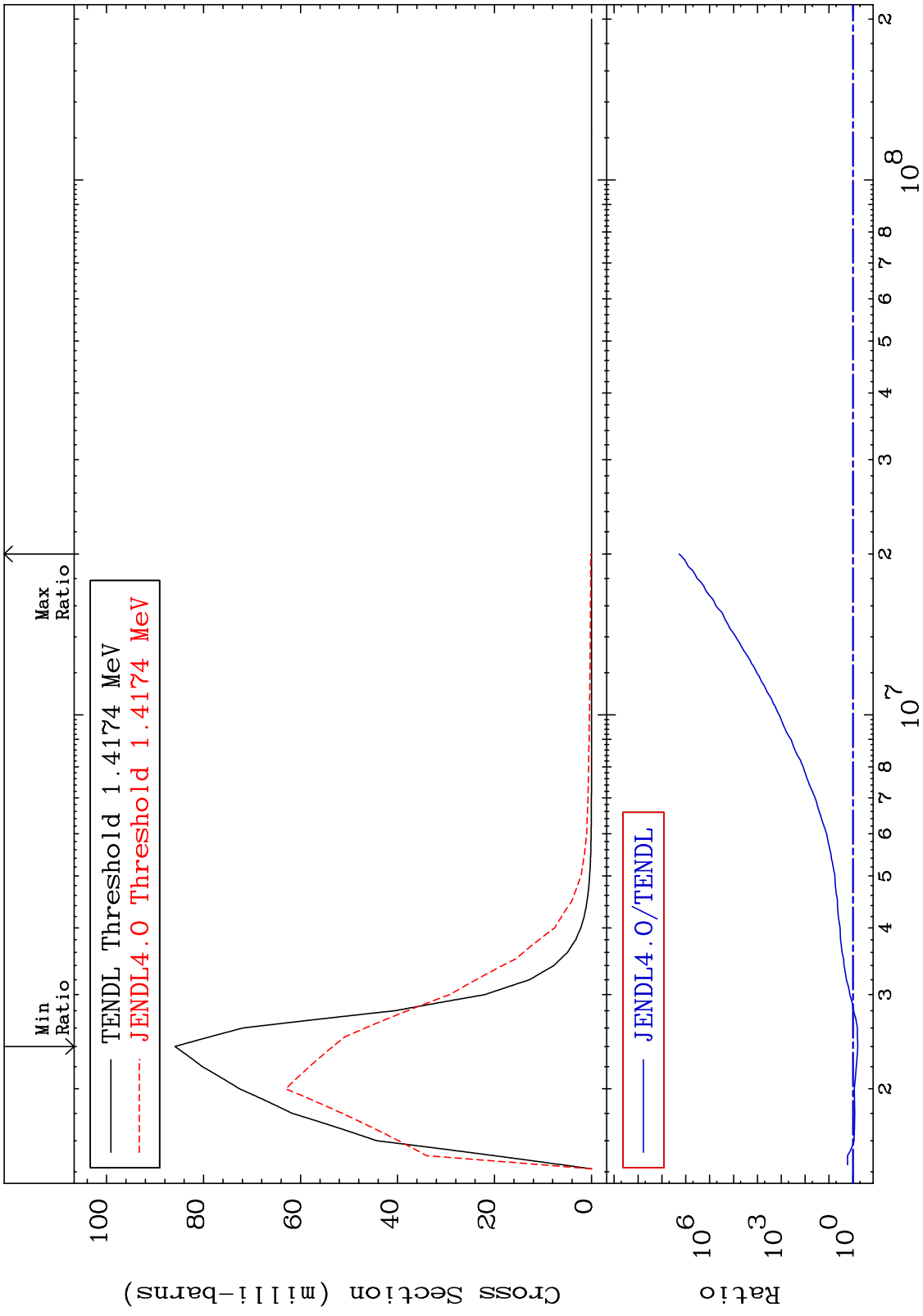
MAT 7237 MT= 64 (n,n') Level Cross Section 72-Hf-178 -98.20 To 195.8 %



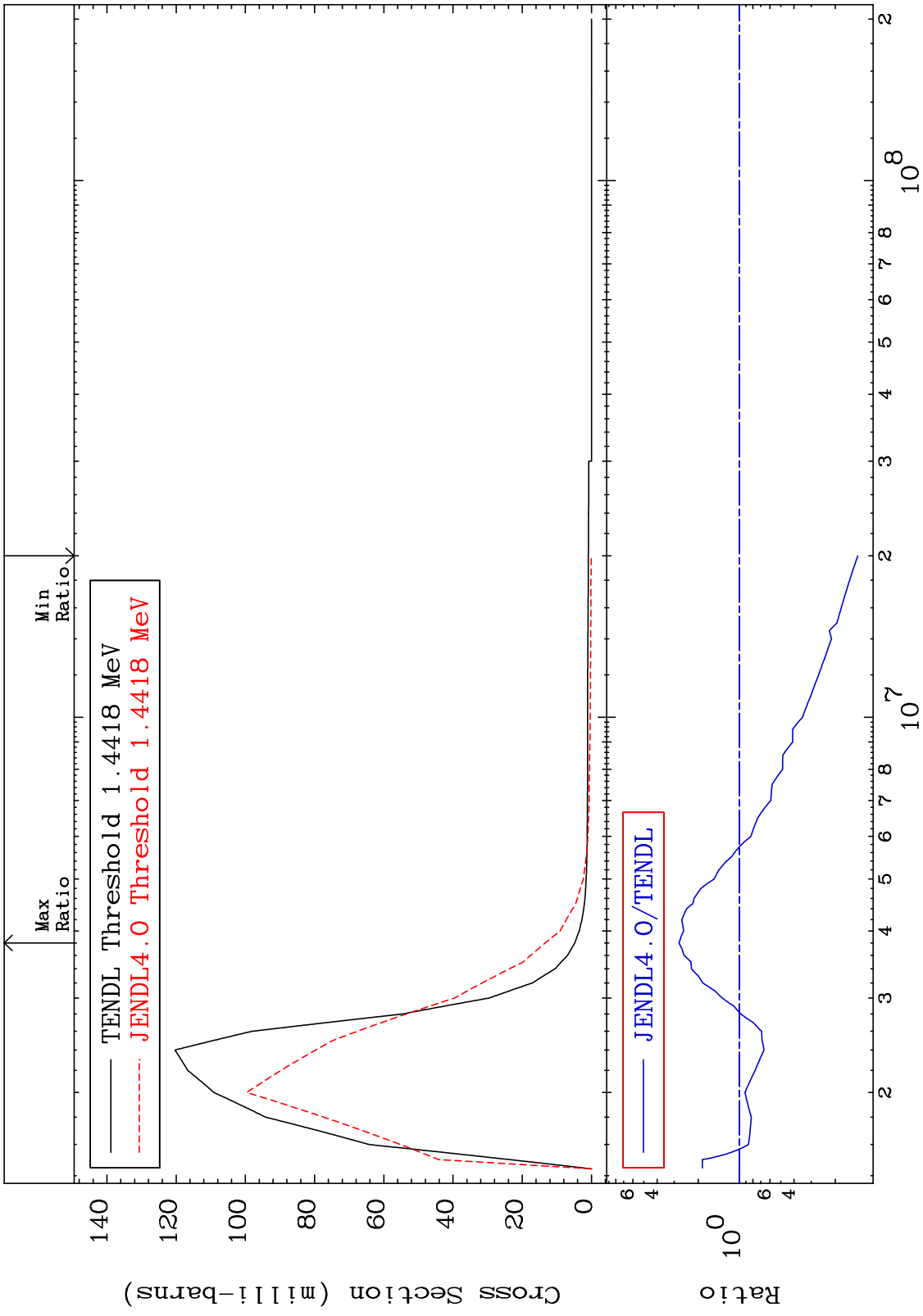
MAT 7237 MT= 65 (n,n') Level Cross Section 72-Hf-178
 -30.13 To 351.6 %



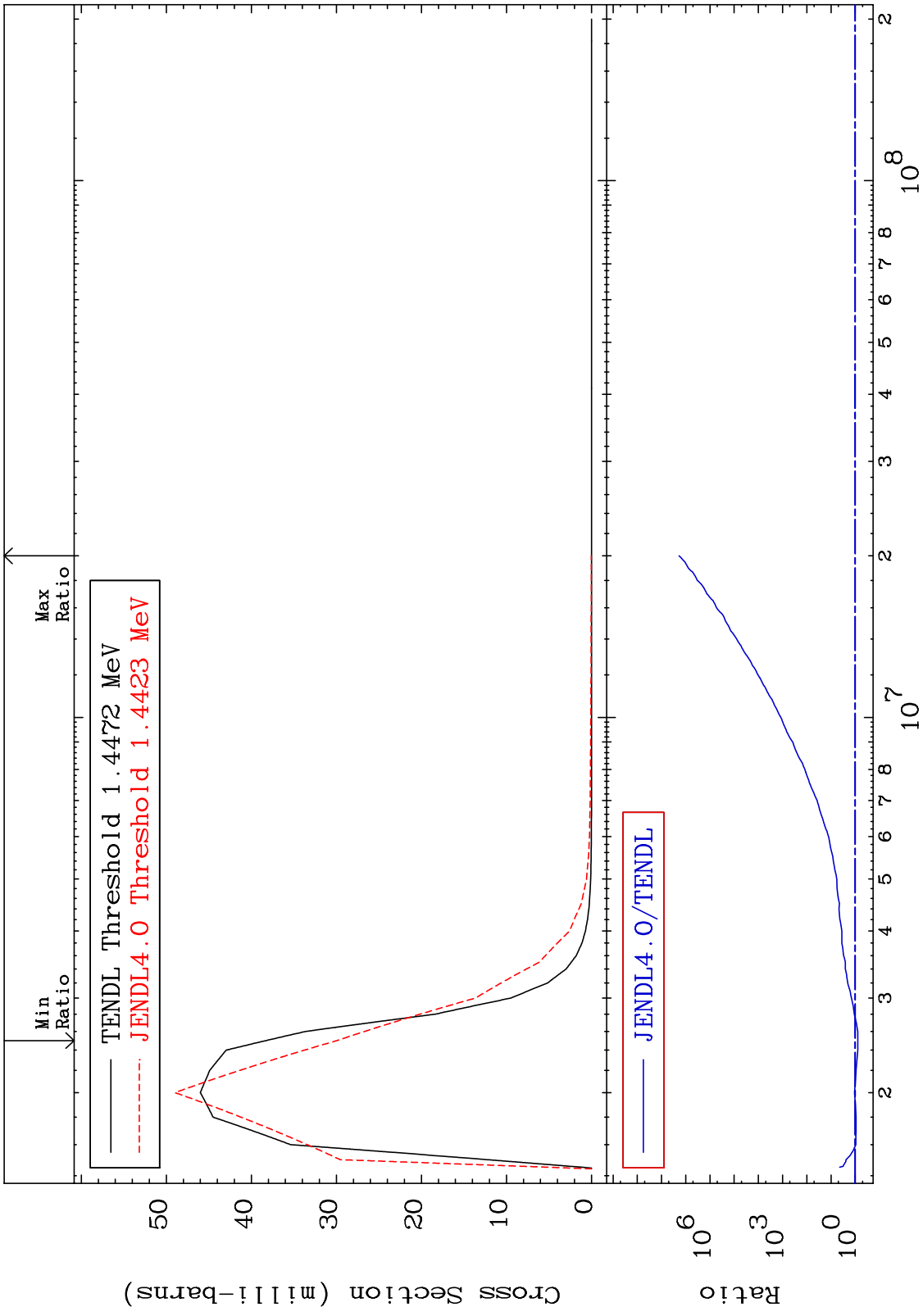
MAT 7237 MT= 66 (n,n') Level Cross Section 72-Hf-178 -37.92 To 9999. %



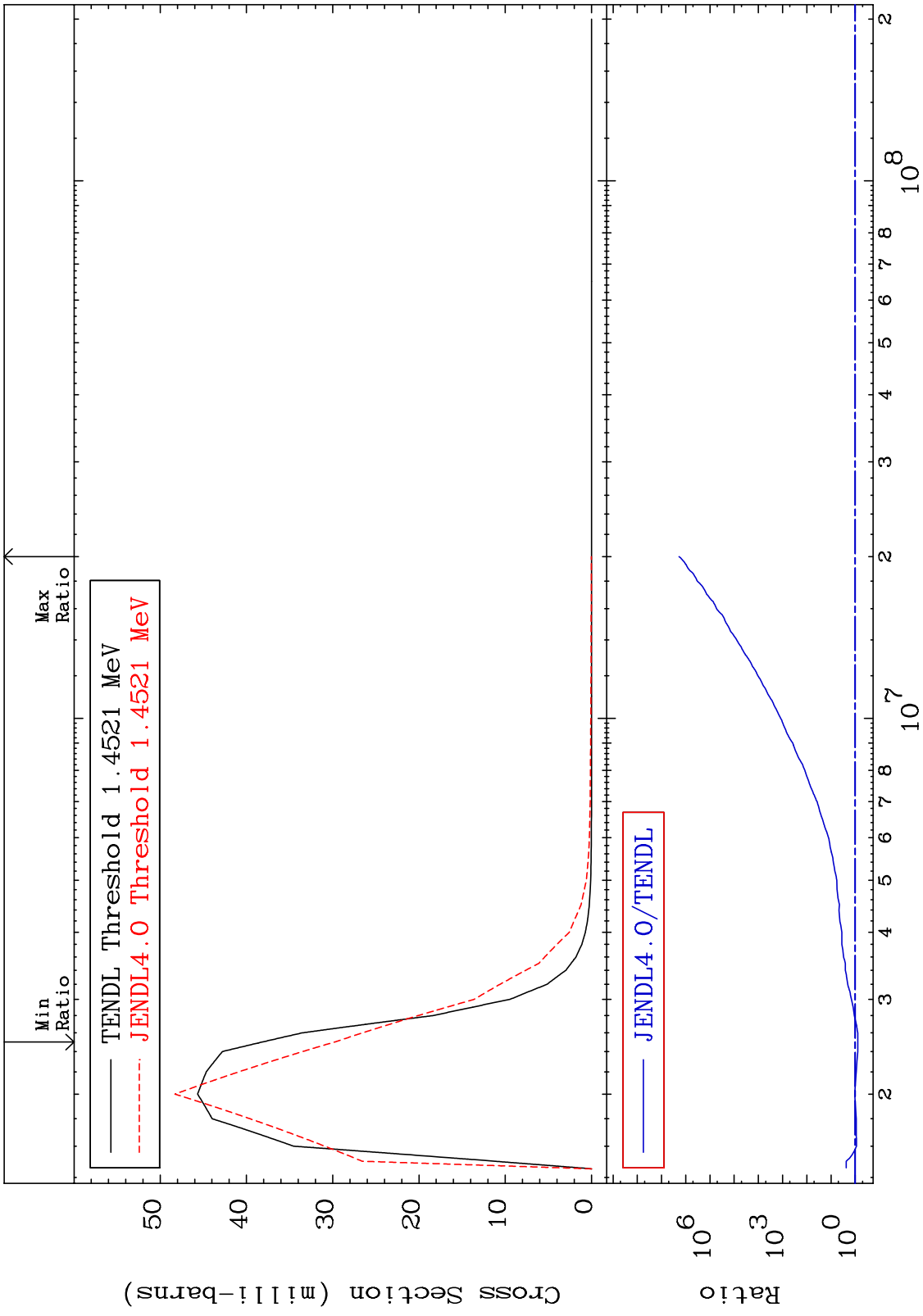
MAT 7237 MT= 67 (n,n') Level Cross Section 72-Hf-178 -86.30 To 176.3 %



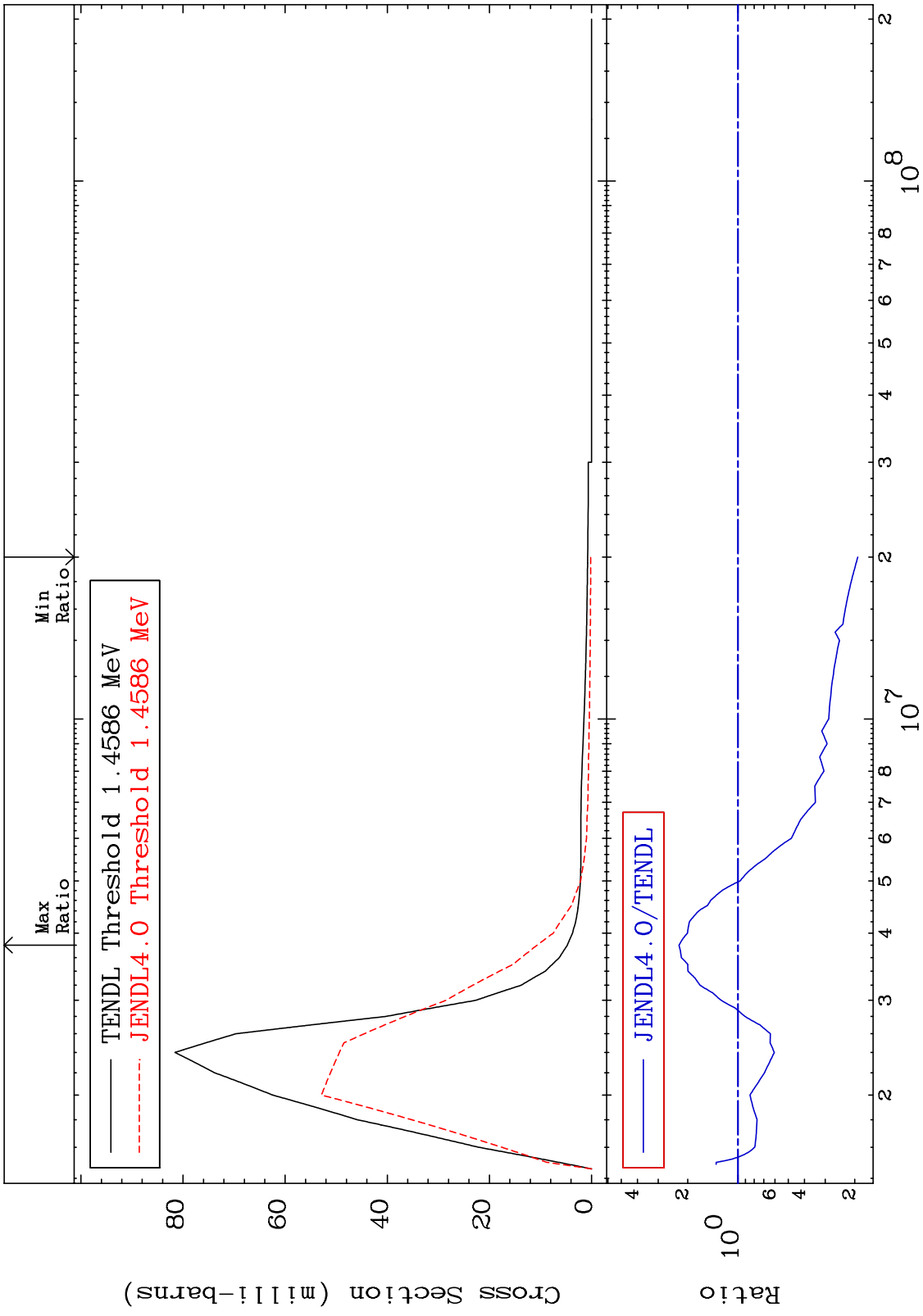
MAT 7237 MT= 68 (n,n') Level Cross Section 72-Hf-178 -21.78 To 9999. %



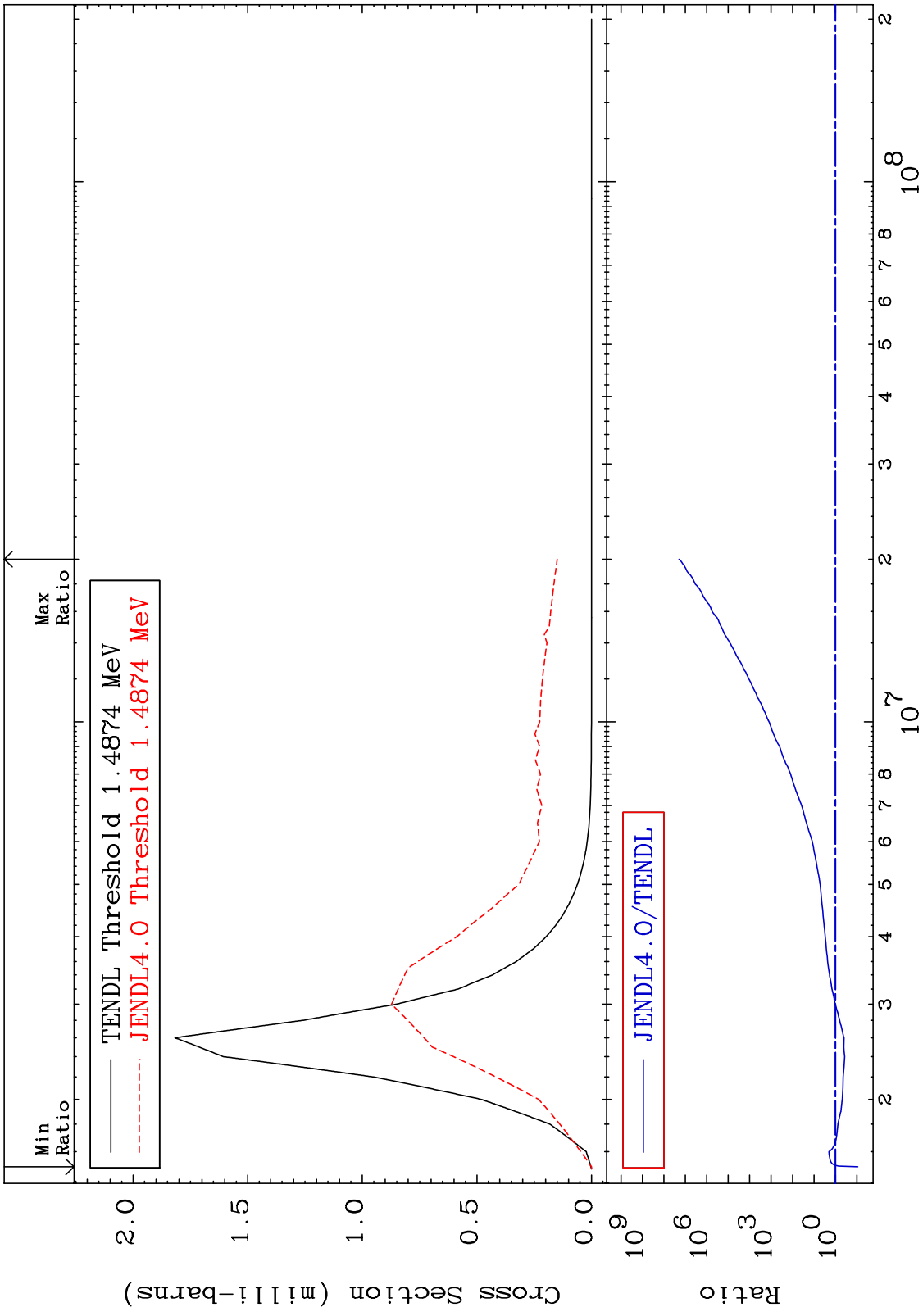
MAT 7237 MT= 69 (n,n') Level Cross Section 72-Hf-178
 -21.97 To 9999. %



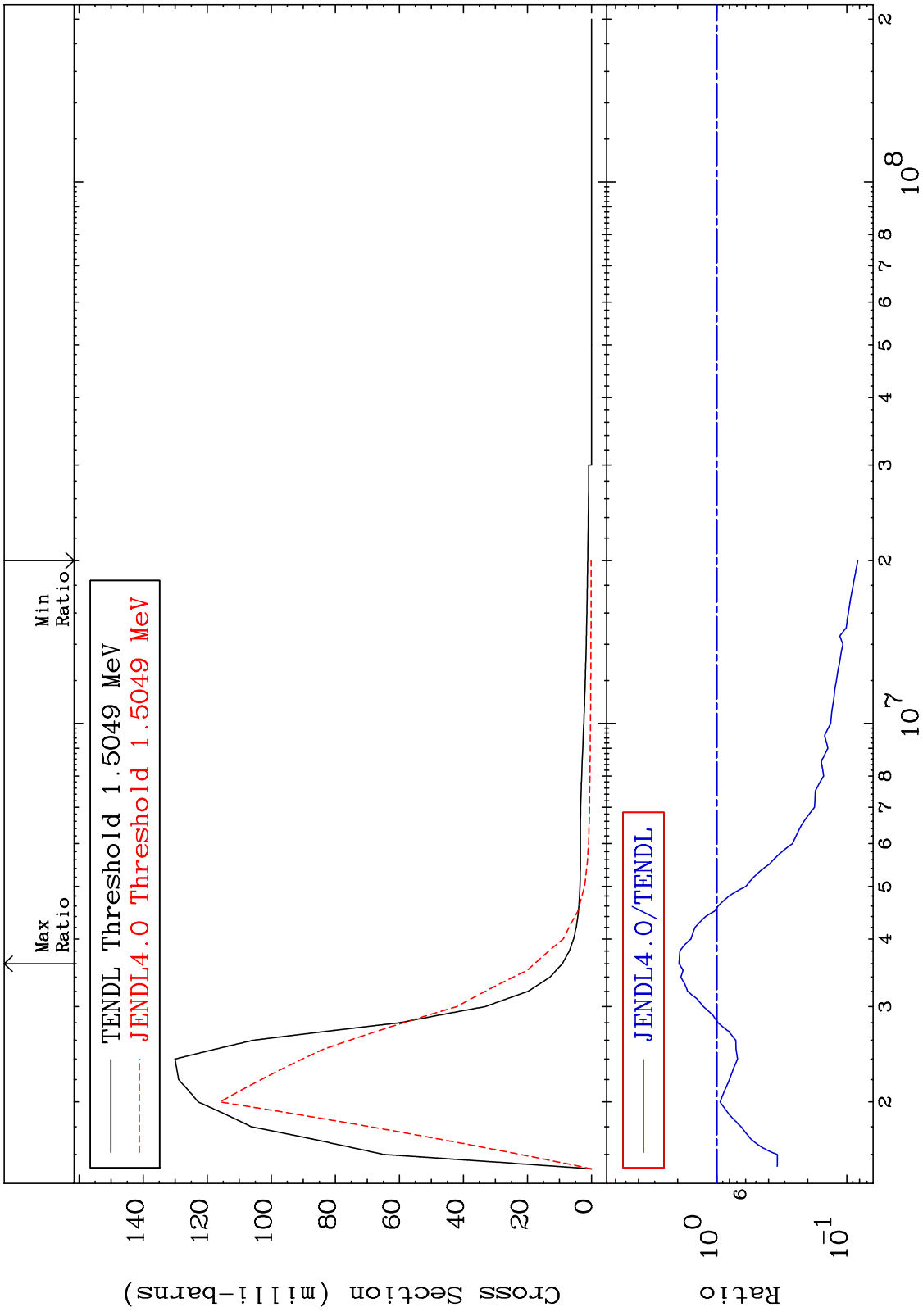
MAT 7237 MT= 70 (n,n') Level Cross Section 72-Hf-178
 -80.86 To 125.1 %



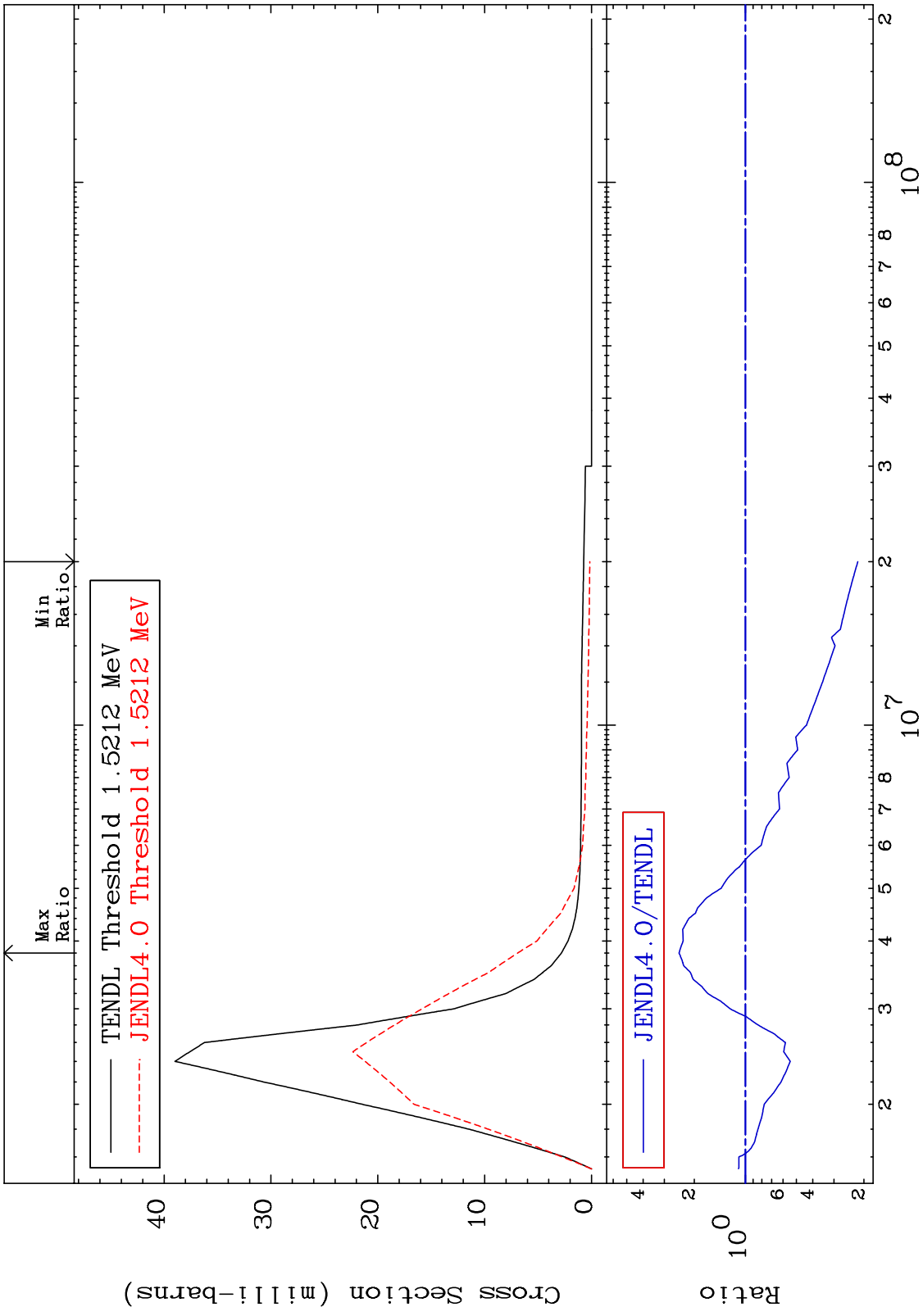
MAT 7237 MT= 71 (n,n') Level Cross Section 72-Hf-178
 -90.98 To 9999. %



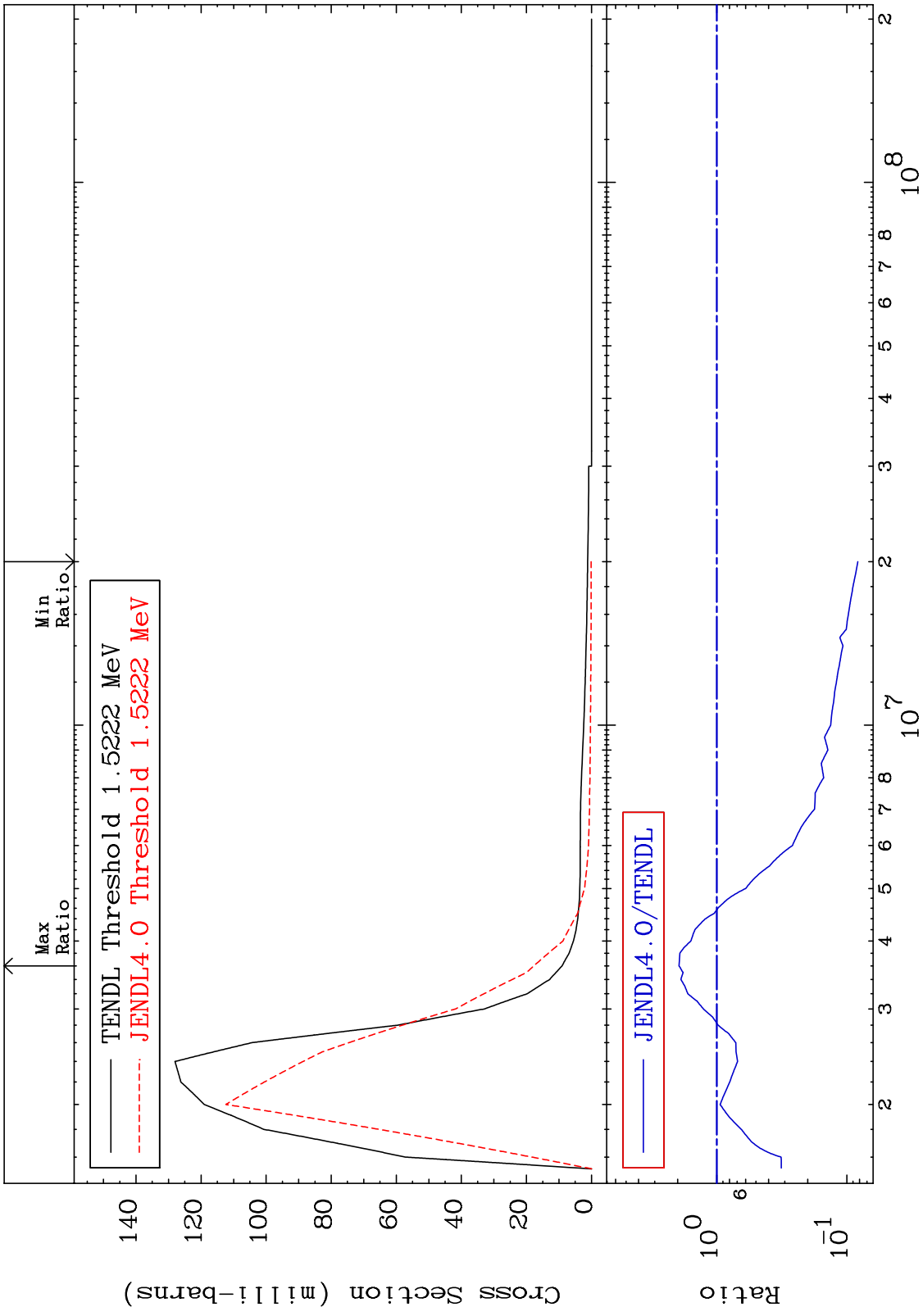
MAT 7237 MT= 72 (n,n') Level Cross Section 72-Hf-178 -91.76 To 95.24 %



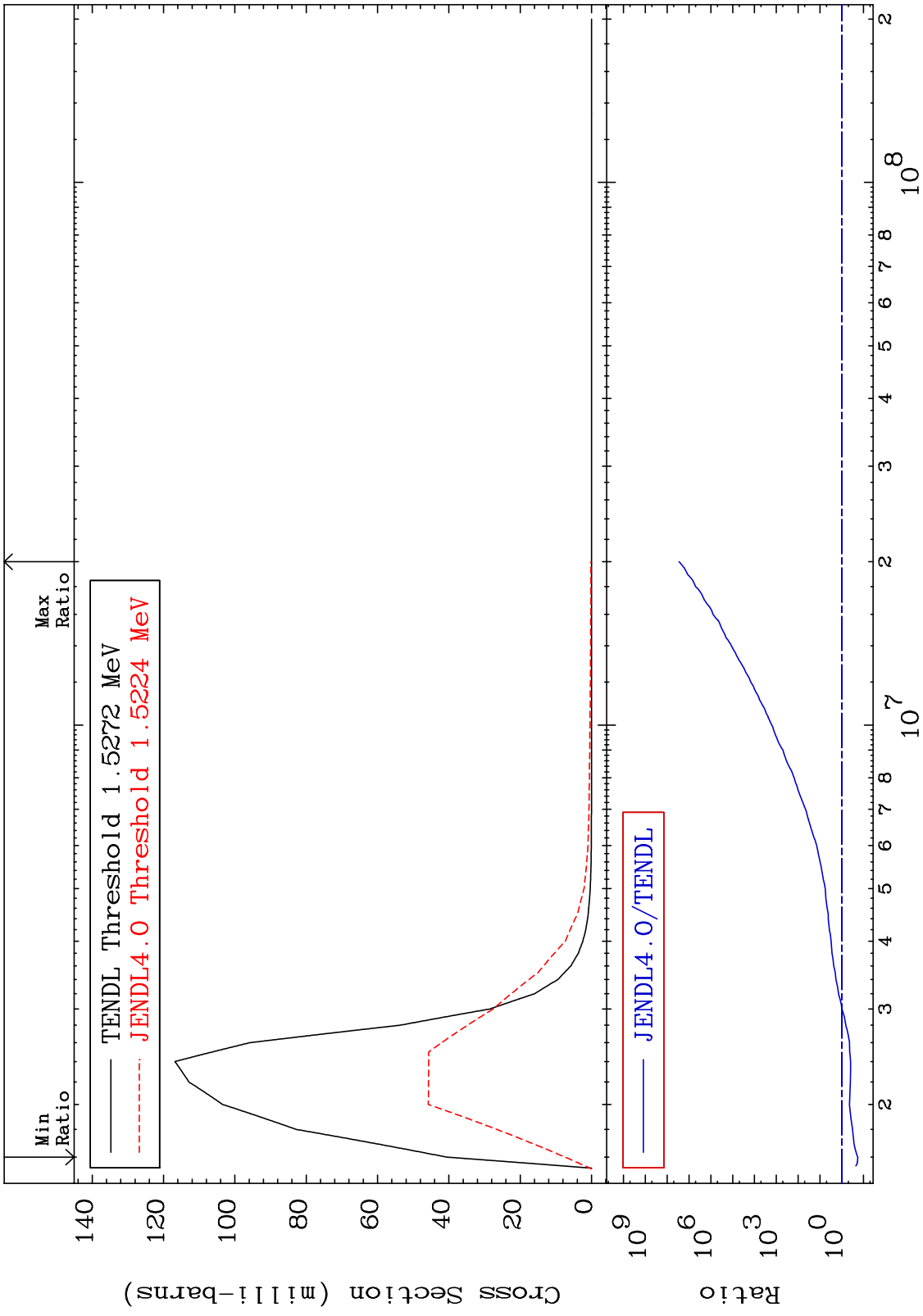
MAT 7237 MT= 73 (n,n') Level Cross Section 72-Hf-178
 -78.27 To 145.8 %



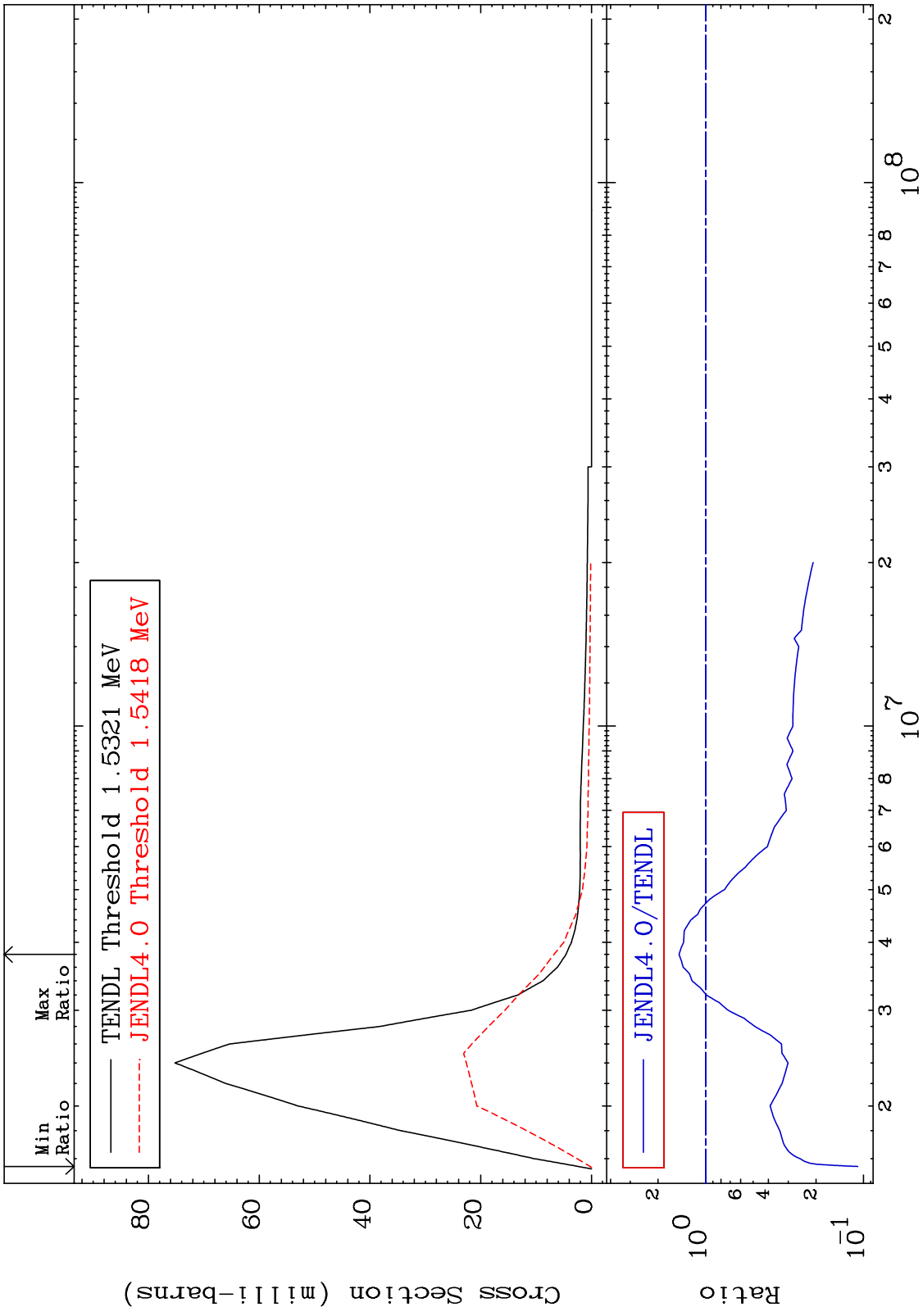
MAT 7237 MT= 74 (n,n') Level Cross Section 72-Hf-178 -91.76 To 95.37 %



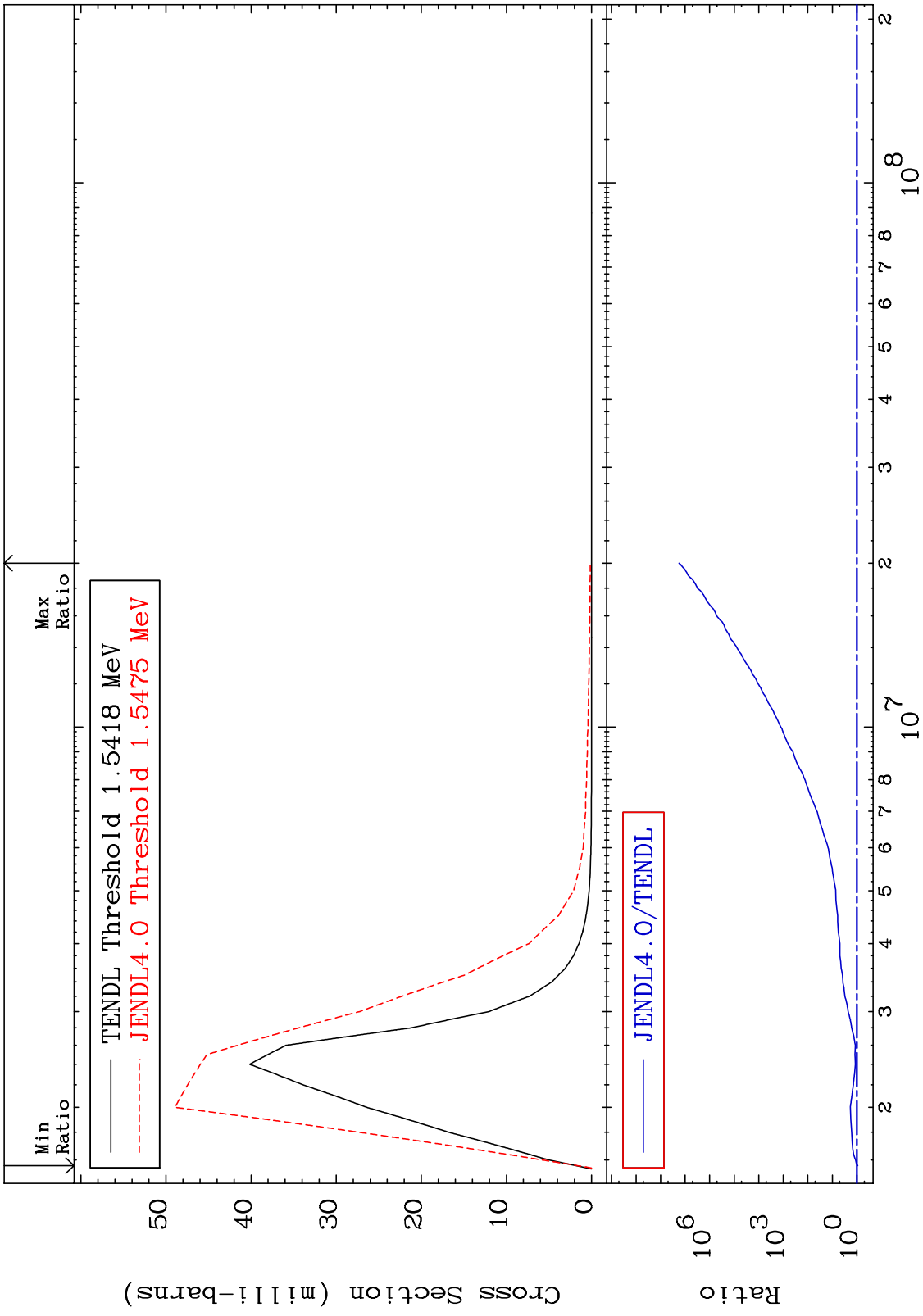
MAT 7237 MT= 75 (n,n') Level Cross Section 72-Hf-178
 -81.69 To 9999. %



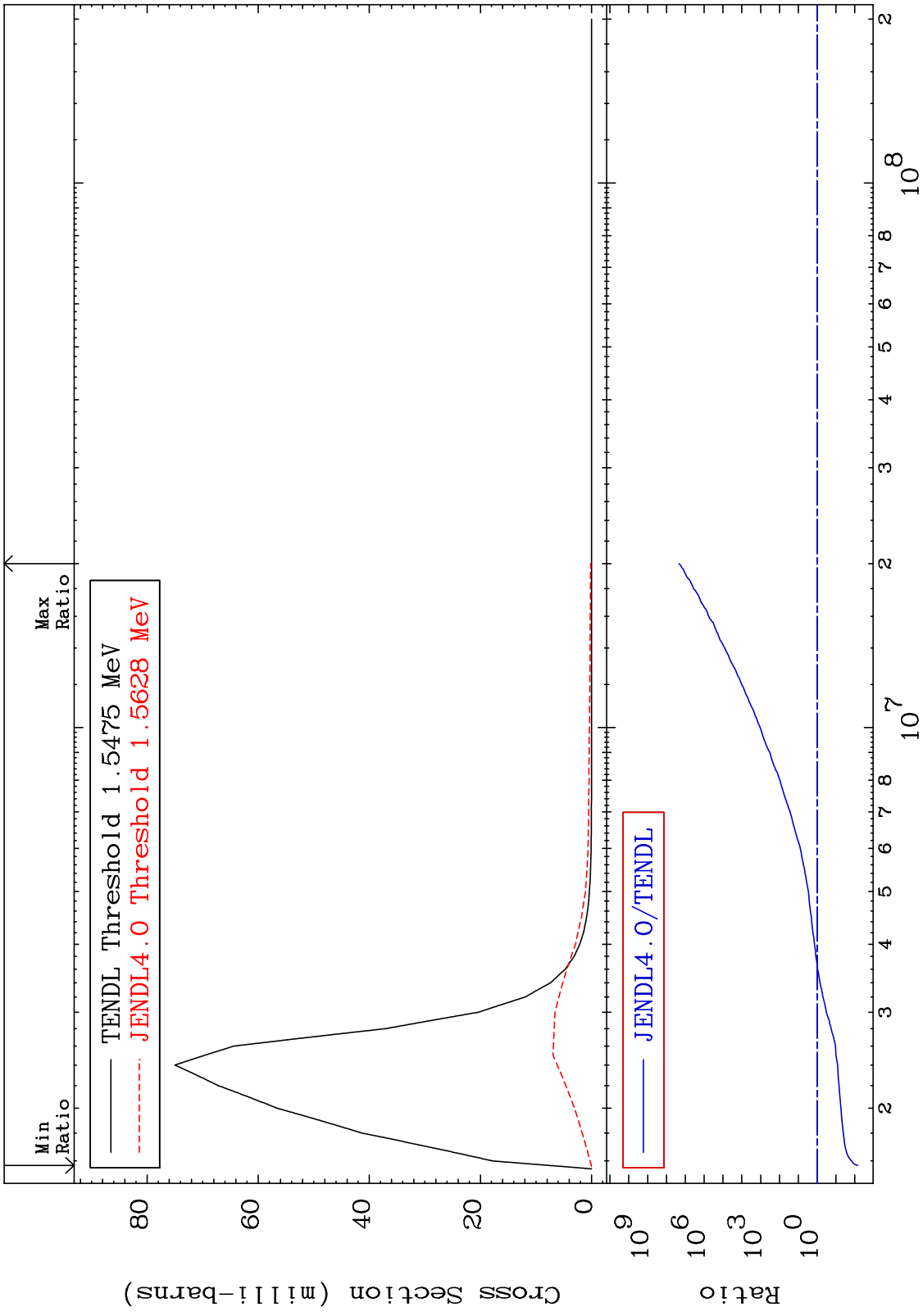
MAT 7237 MT= 76 (n,n') Level Cross Section 72-Hf-178
 -89.13 To 47.29 %



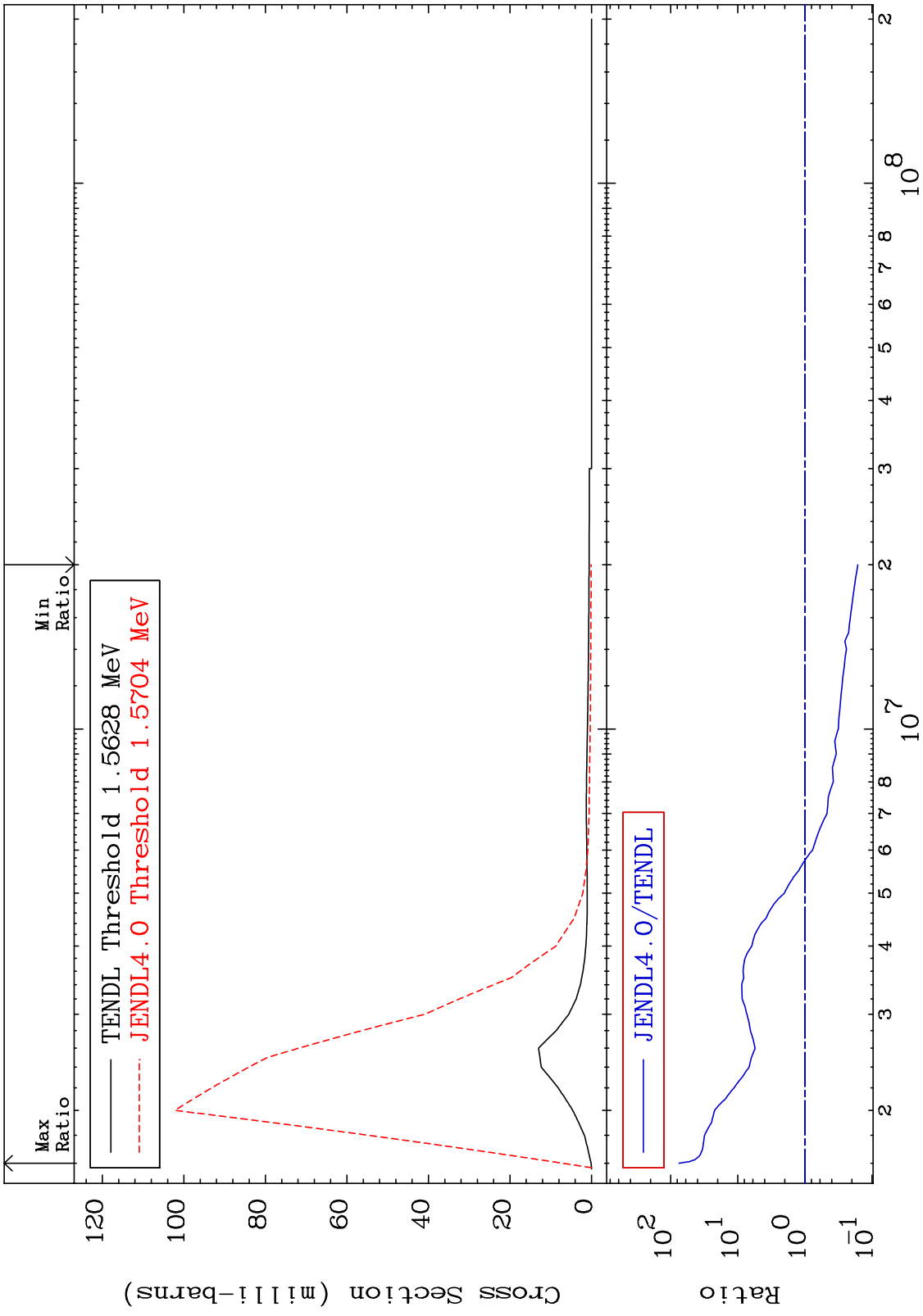
MAT 7237 MT= 77 (n,n') Level Cross Section 72-Hf-178 -8.500 To 9999. %

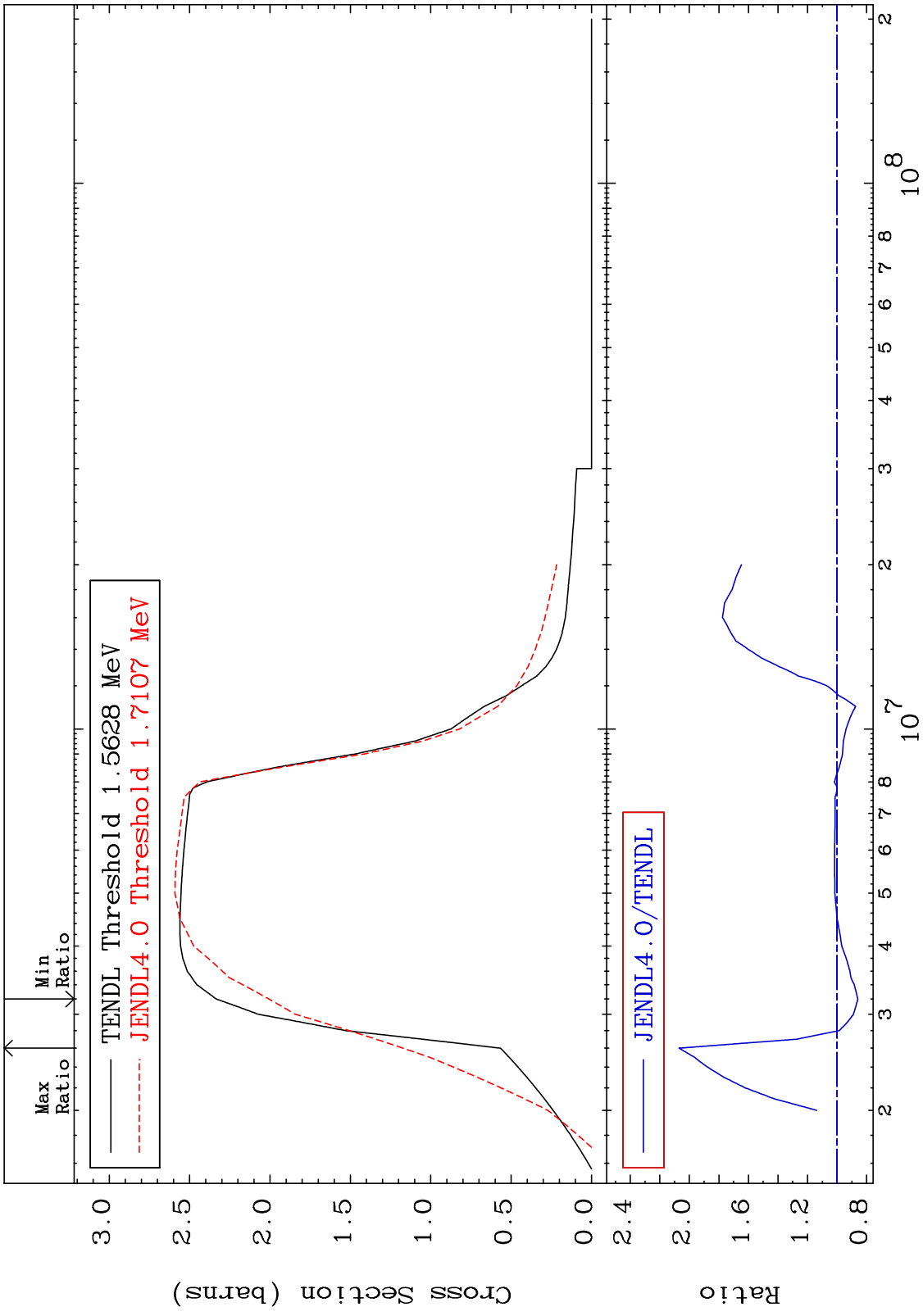


MAT 7237 MT= 78 (n,n') Level Cross Section 72-Hf-178
 -99.31 To 9999. %



MAT 7237 MT= 79 (n,n') Level Cross Section 72-Hf-178 -83.70 To 7426. %





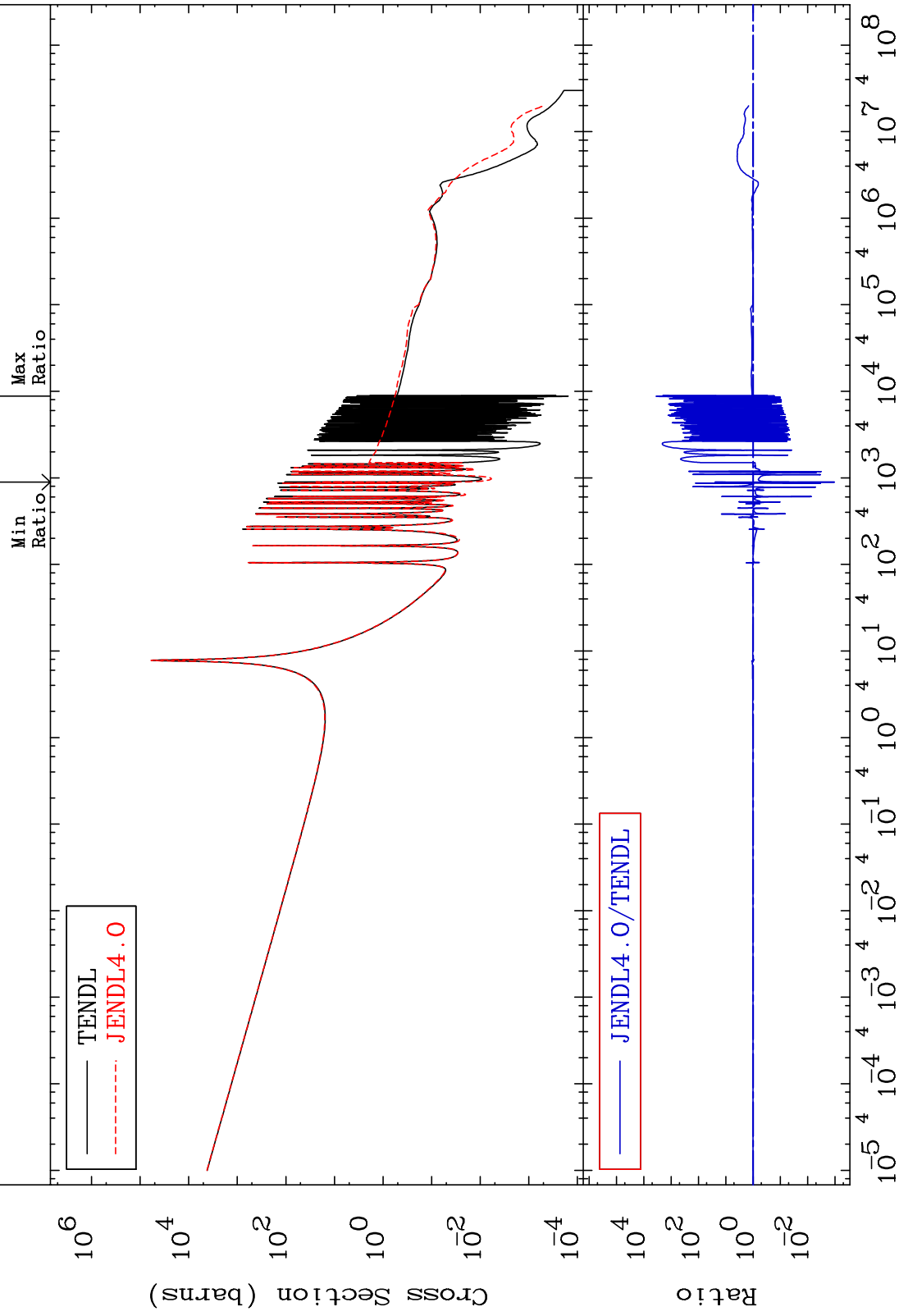
MAT 7237

(n, γ)

72-Hf-178

-99.90 To 9999. %

Cross Section



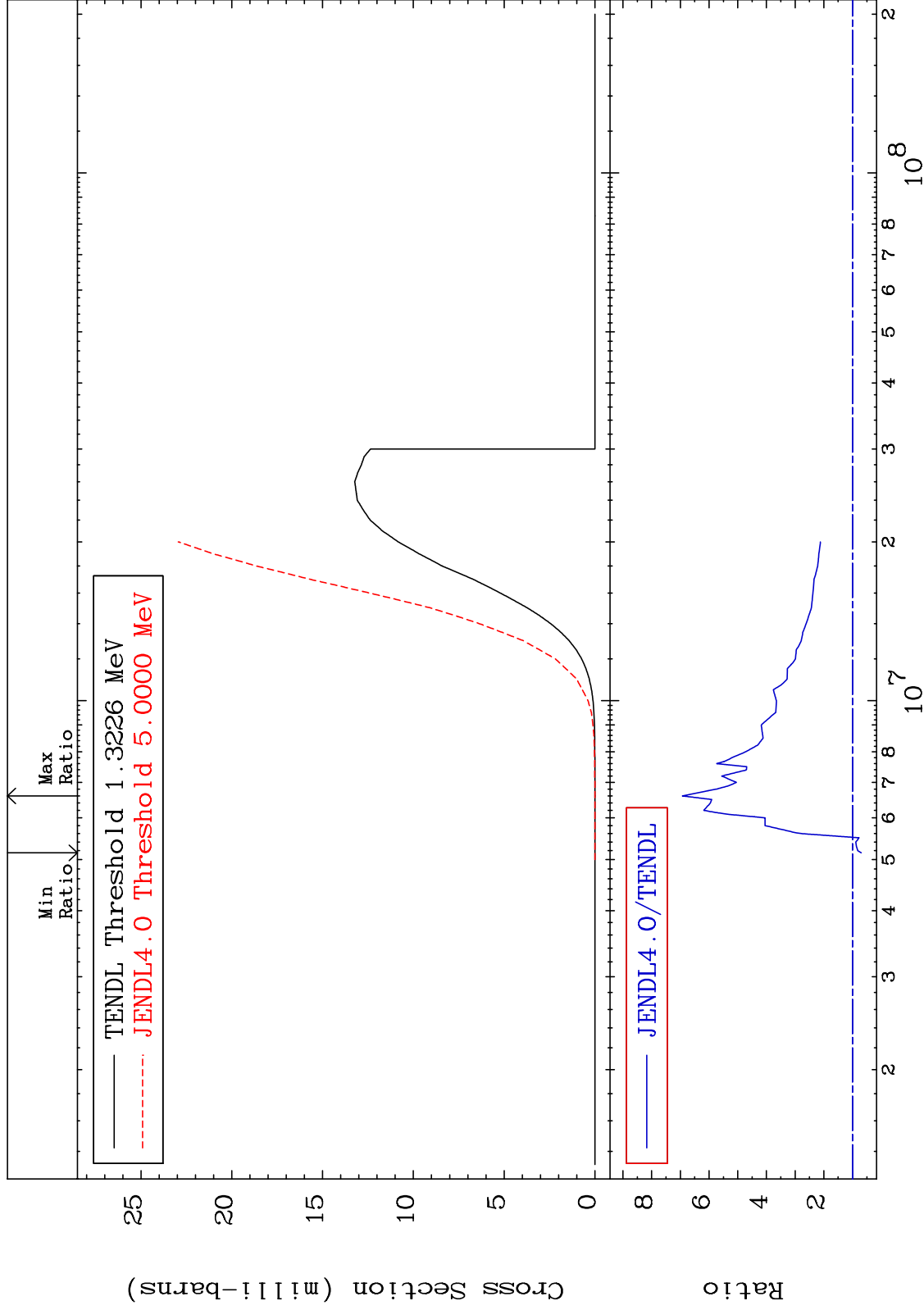
MAT 7237

(n,p)

72-Hf-178

Cross Section

-30.59 To 592.7 %

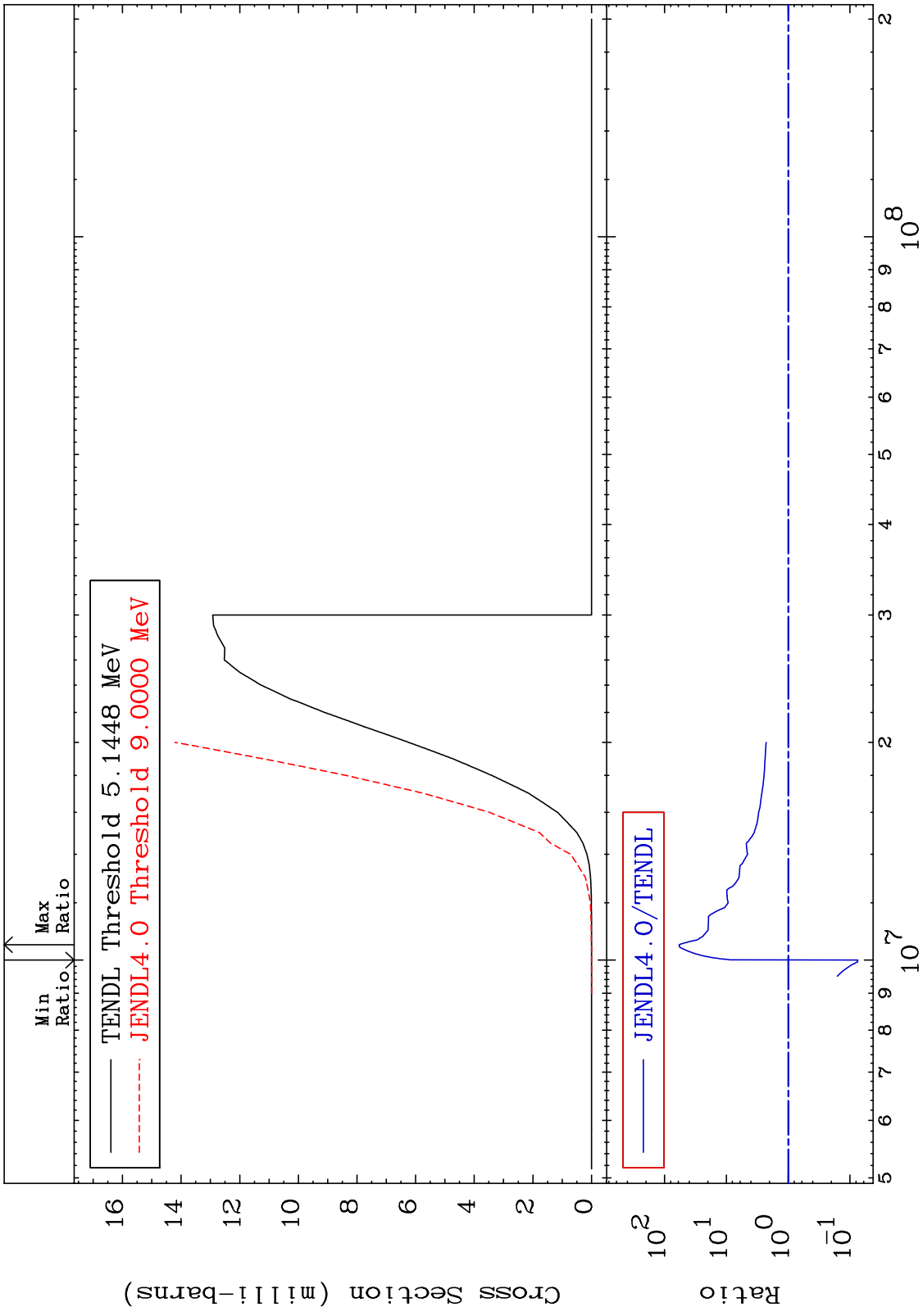


40

Incident Energy (eV)

72-Hf-178

MAT 7237 (n,d) Cross Section 72-Hf-178 -92.54 To 5735. %



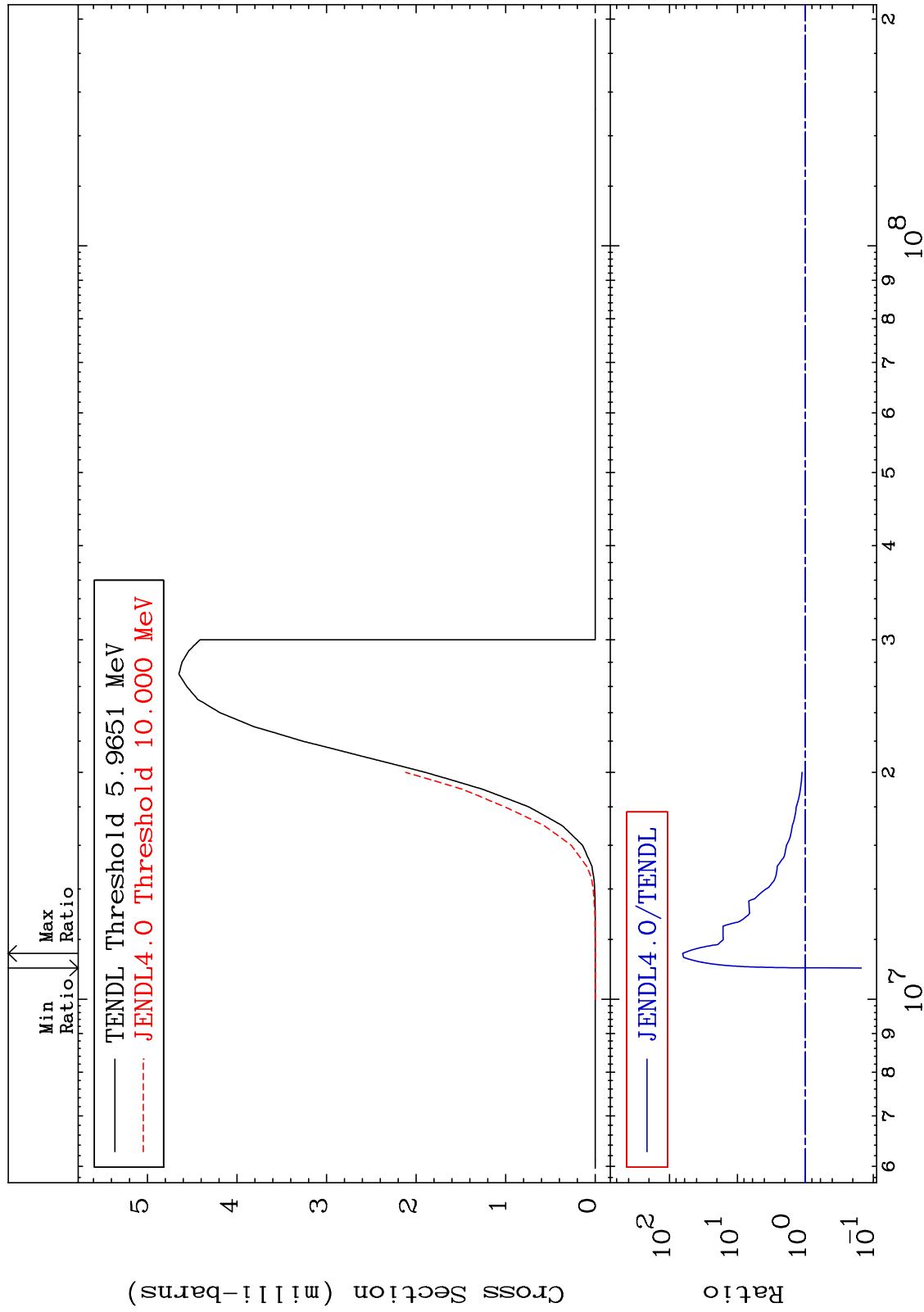
MAT 7237

(n,t)

72-Hf-178

Cross Section

-85.04 To 6288. %



42

Incident Energy (eV)

72-Hf-178

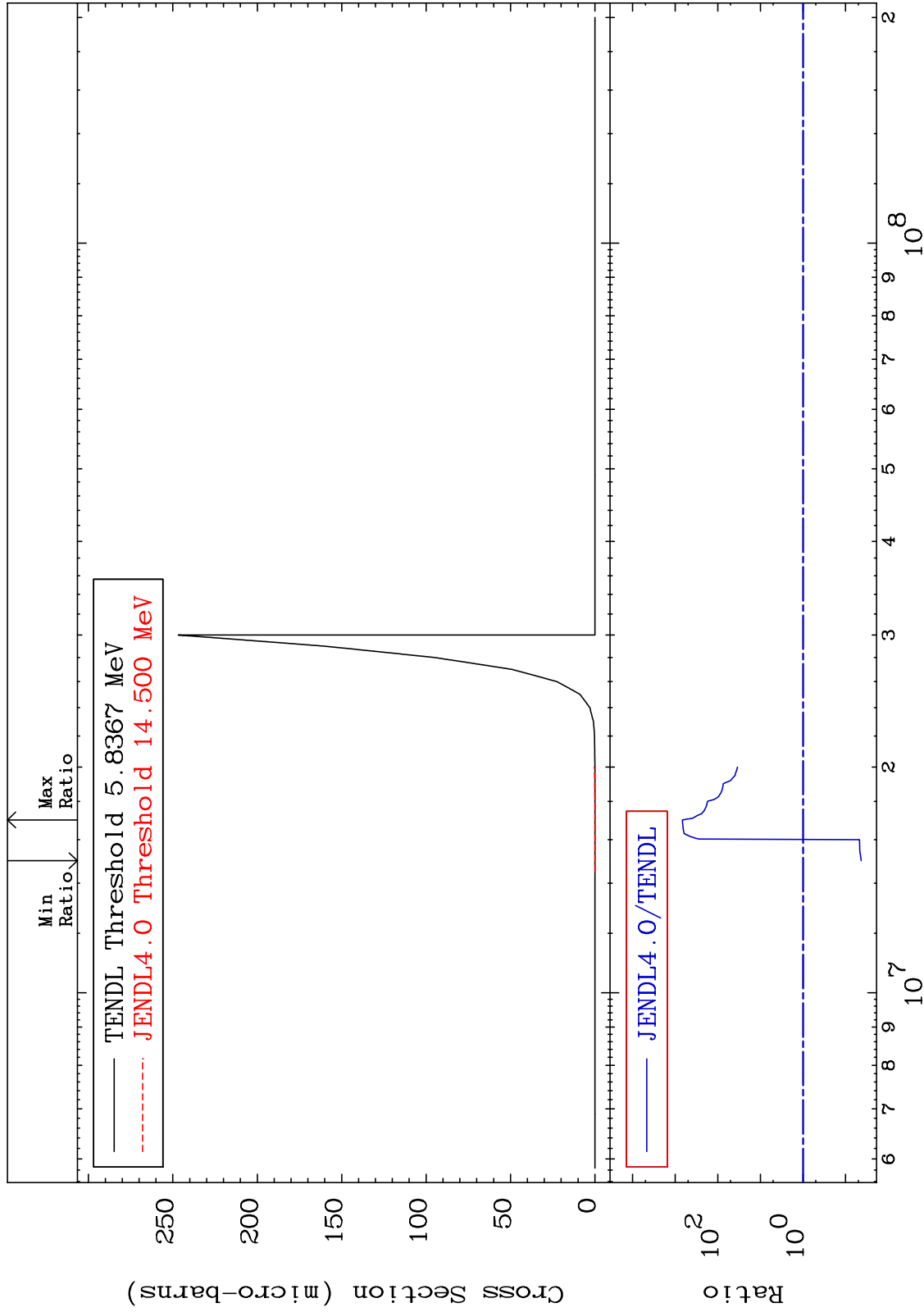
MAT 7237

(n, He-3)

72-Hf-178

Cross Section

-95.72 To 9999. %



43

Incident Energy (eV)

72-Hf-178

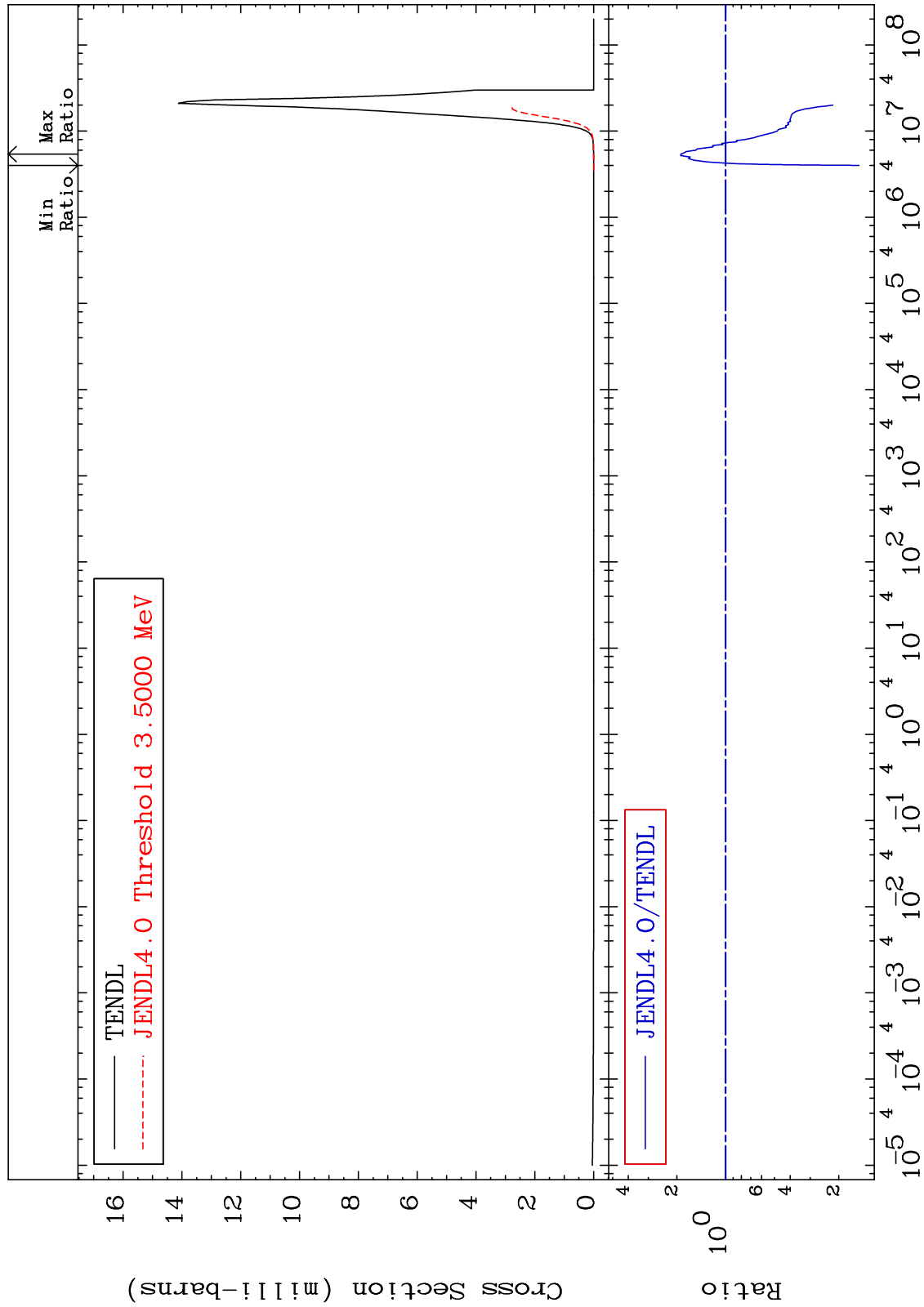
MAT 7237

(n, α)

72-Hf-178

Cross Section

-85.01 To 89.13 %



44

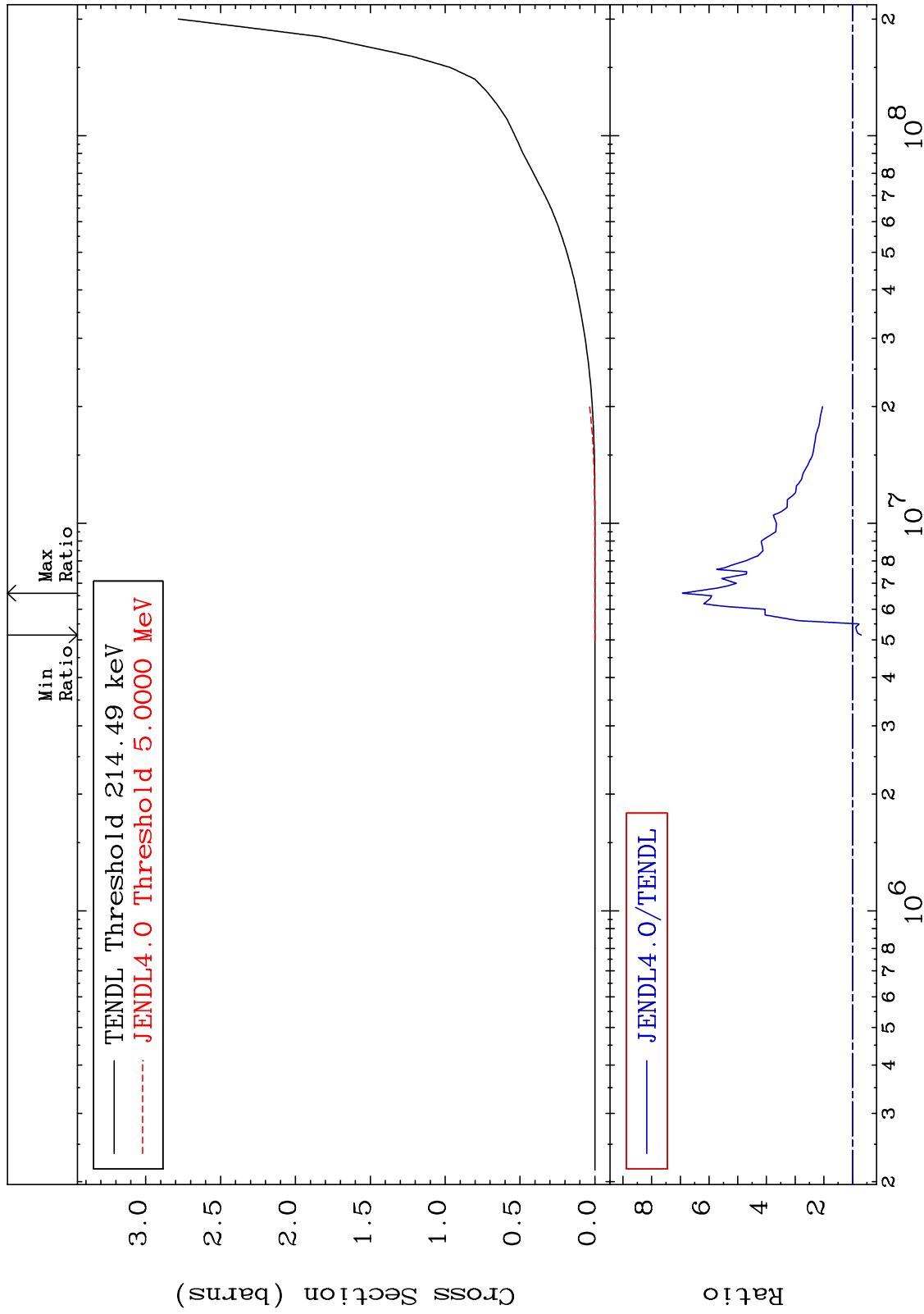
Incident Energy (eV)

72-Hf-178

MAT 7237

Hydrogen Production
Cross Section

72-Hf-178
-30.59 To 592.7 %



45

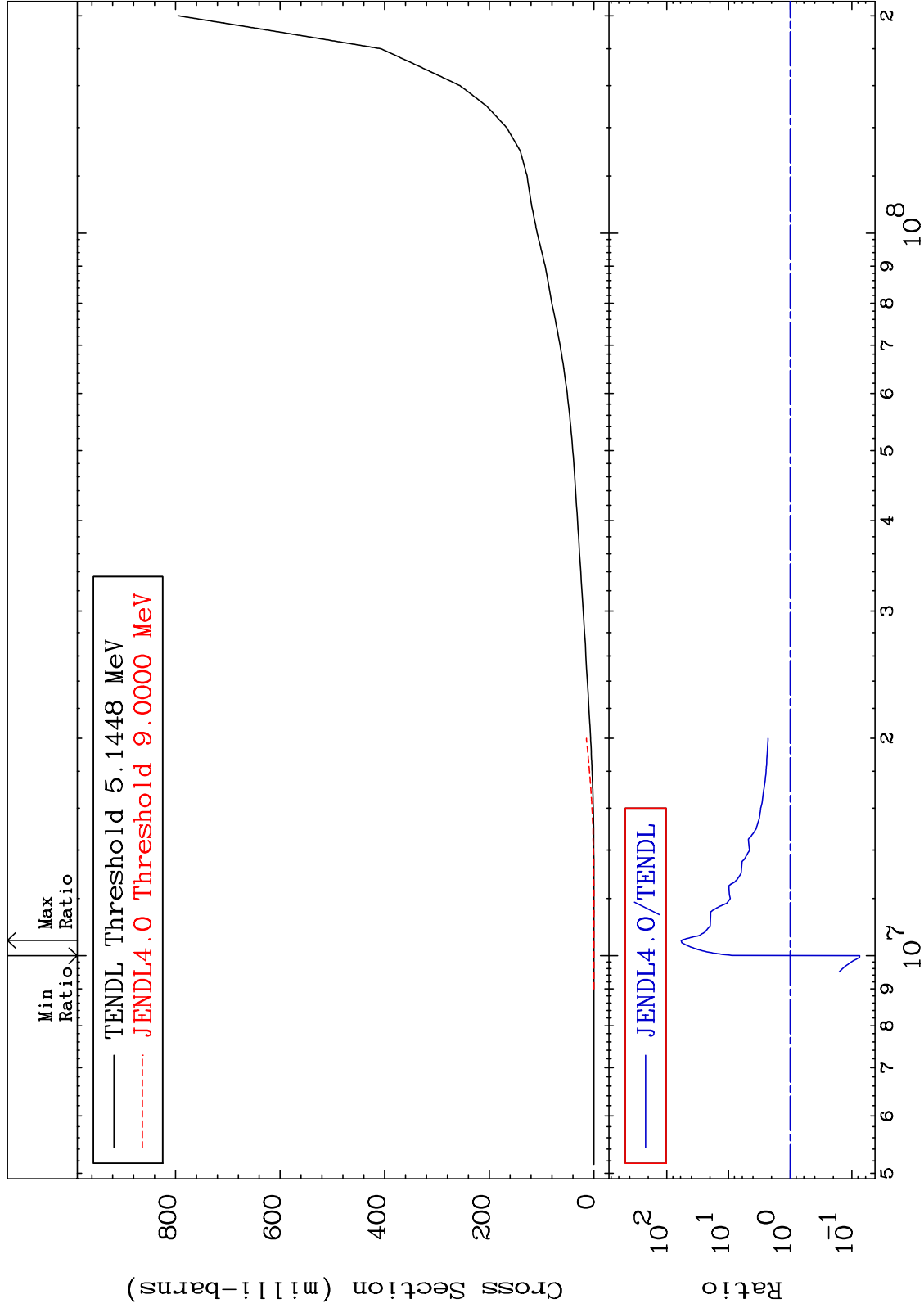
Incident Energy (eV)

72-Hf-178

MAT 7237

Deuterium Production
Cross Section

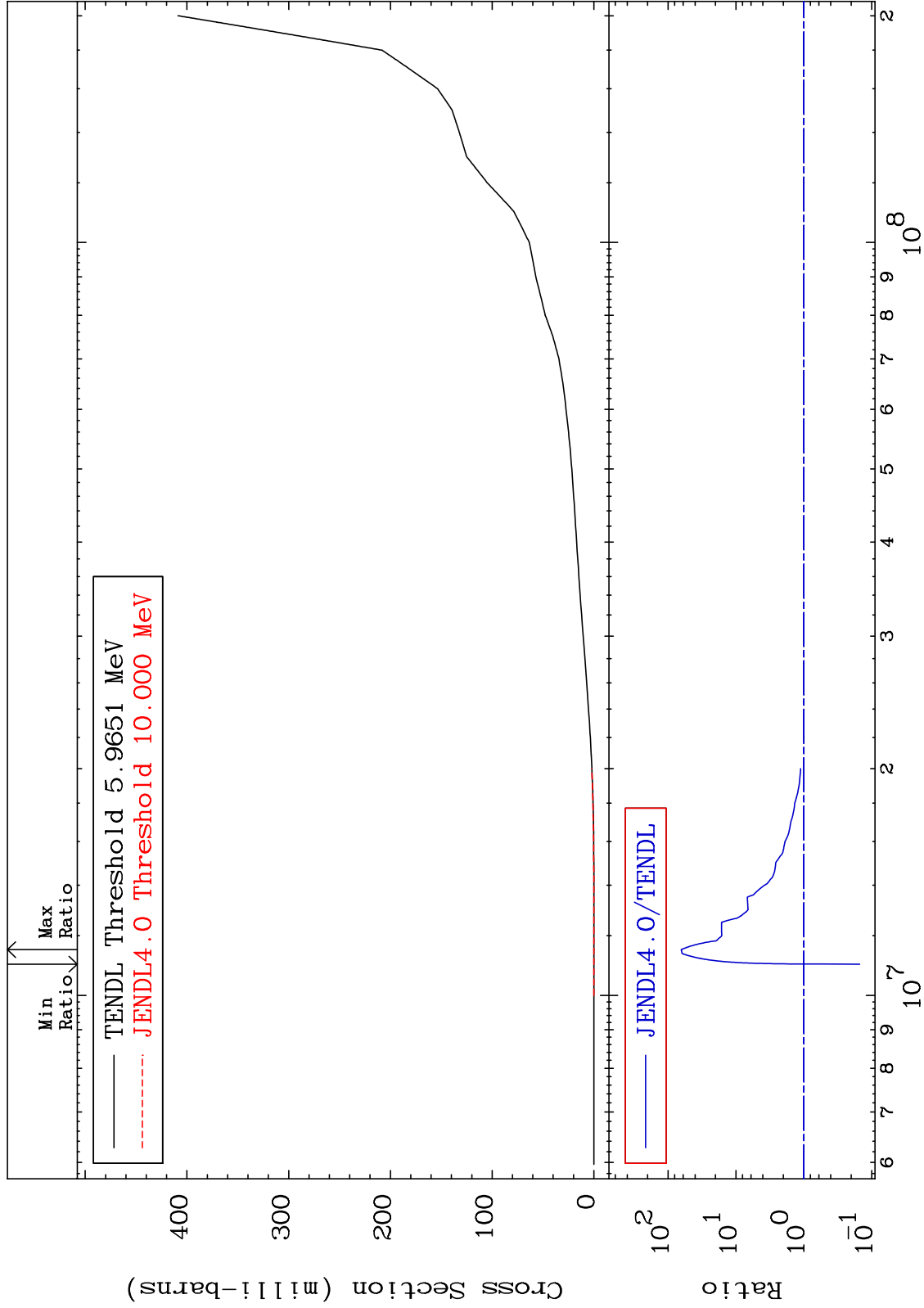
72-Hf-178
-92.54 To 5735. %



MAT 7237

Tritium Production
Cross Section

72-Hf-178
-85.04 To 6288. %



47

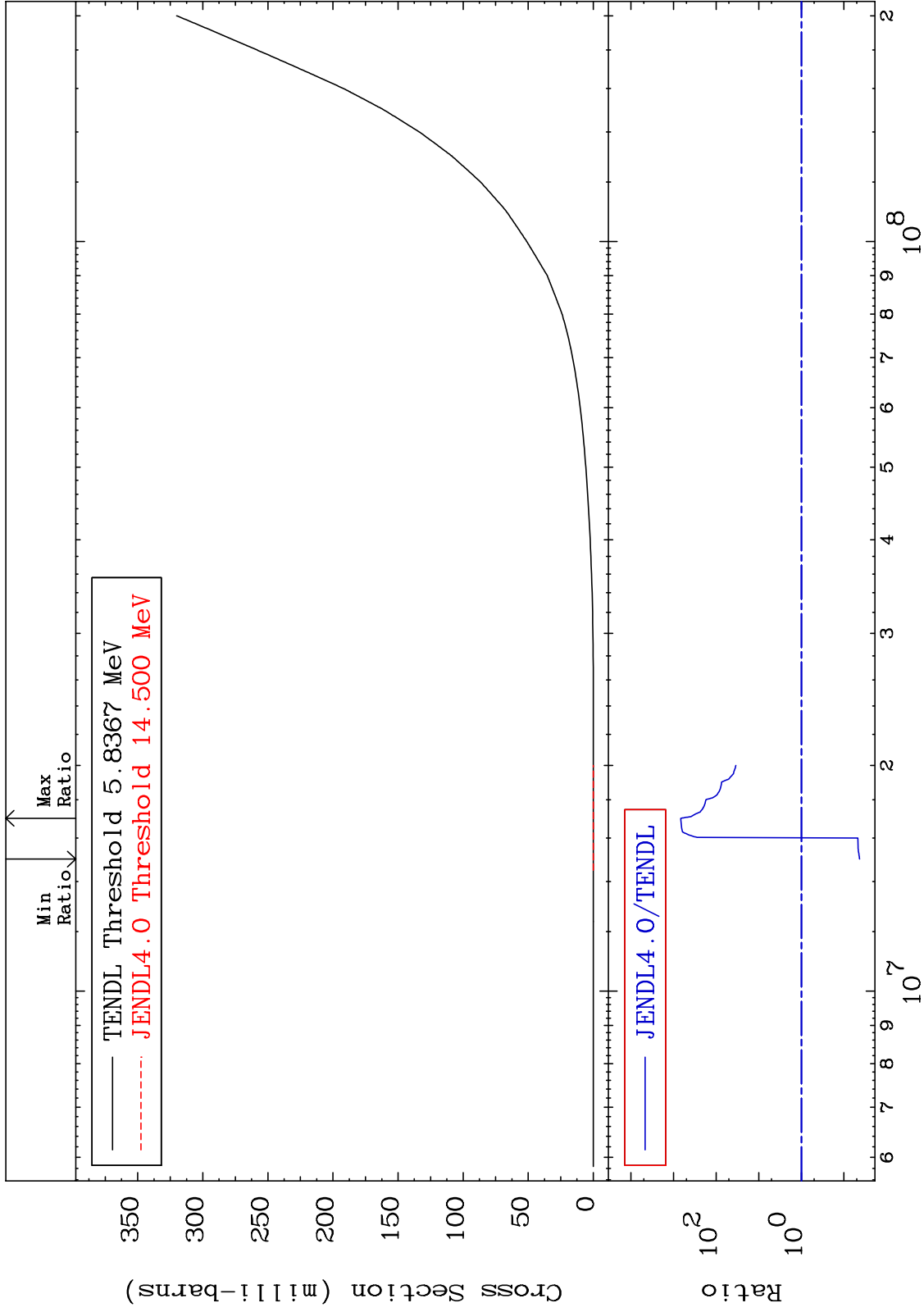
Incident Energy (eV)

72-Hf-178

MAT 7237

He-3 Production
Cross Section

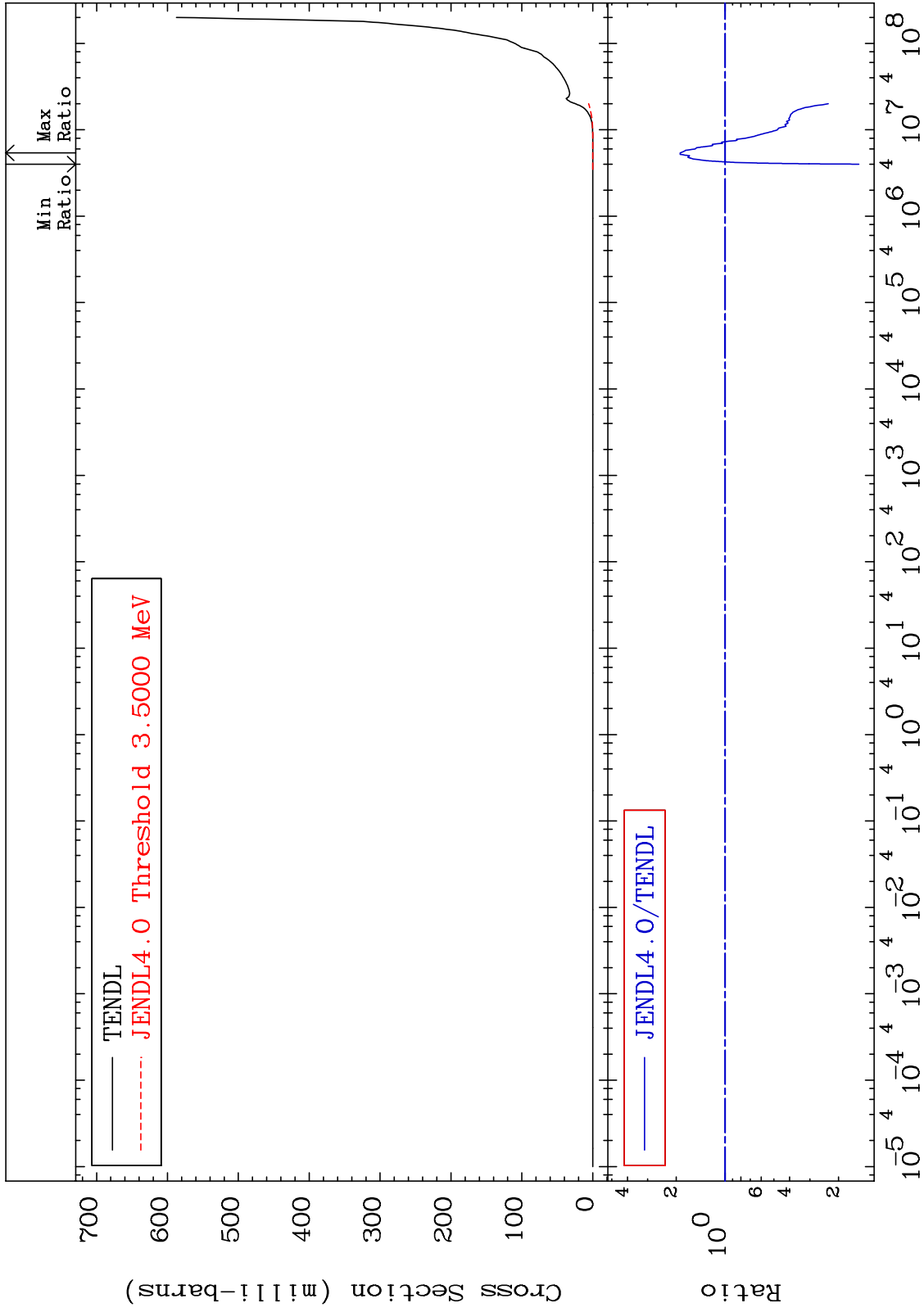
72-Hf-178
-95.72 To 9999. %



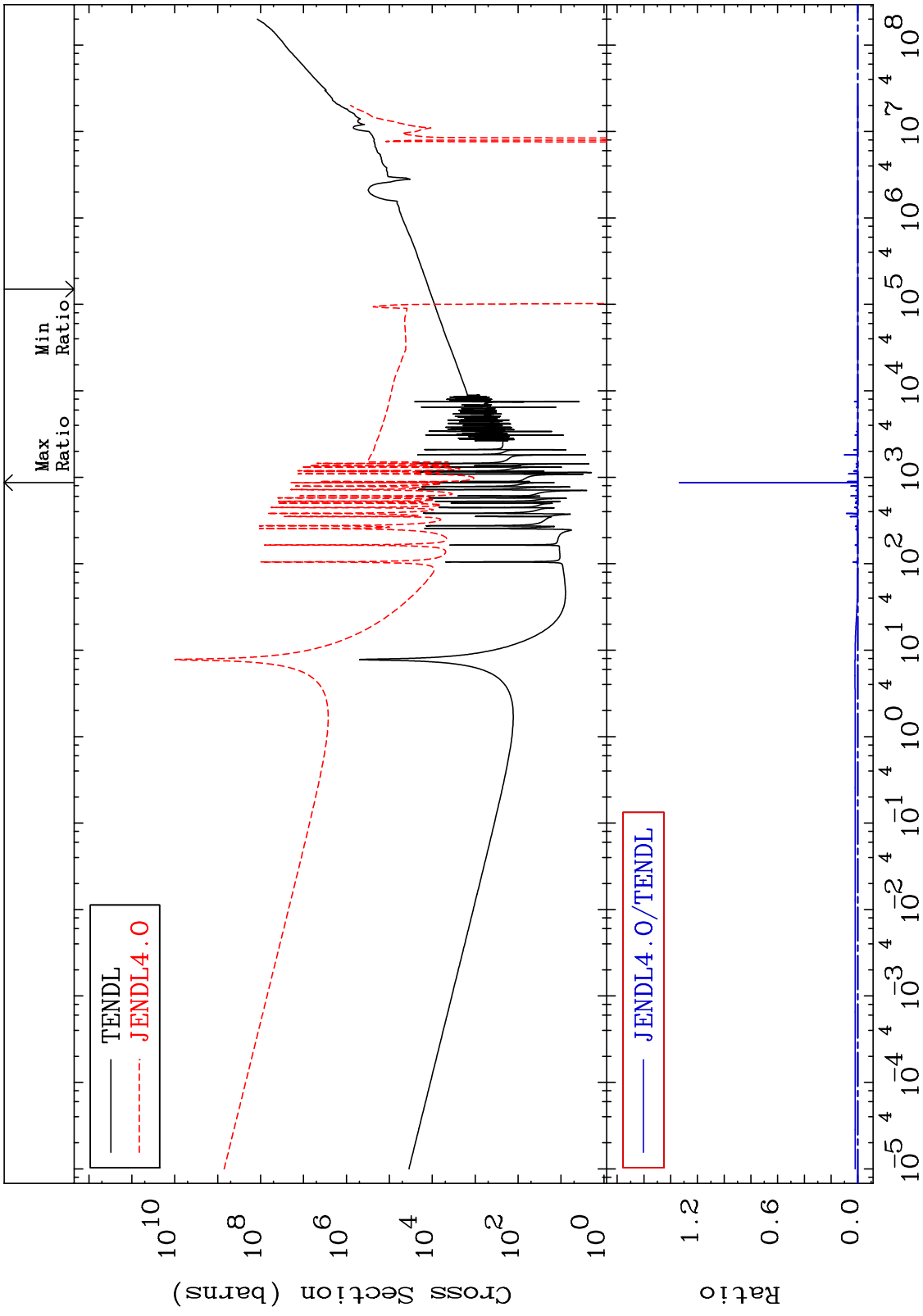
MAT 7237

He-4 Production
Cross Section

72-Hf-178
-85.01 To 89.08 %



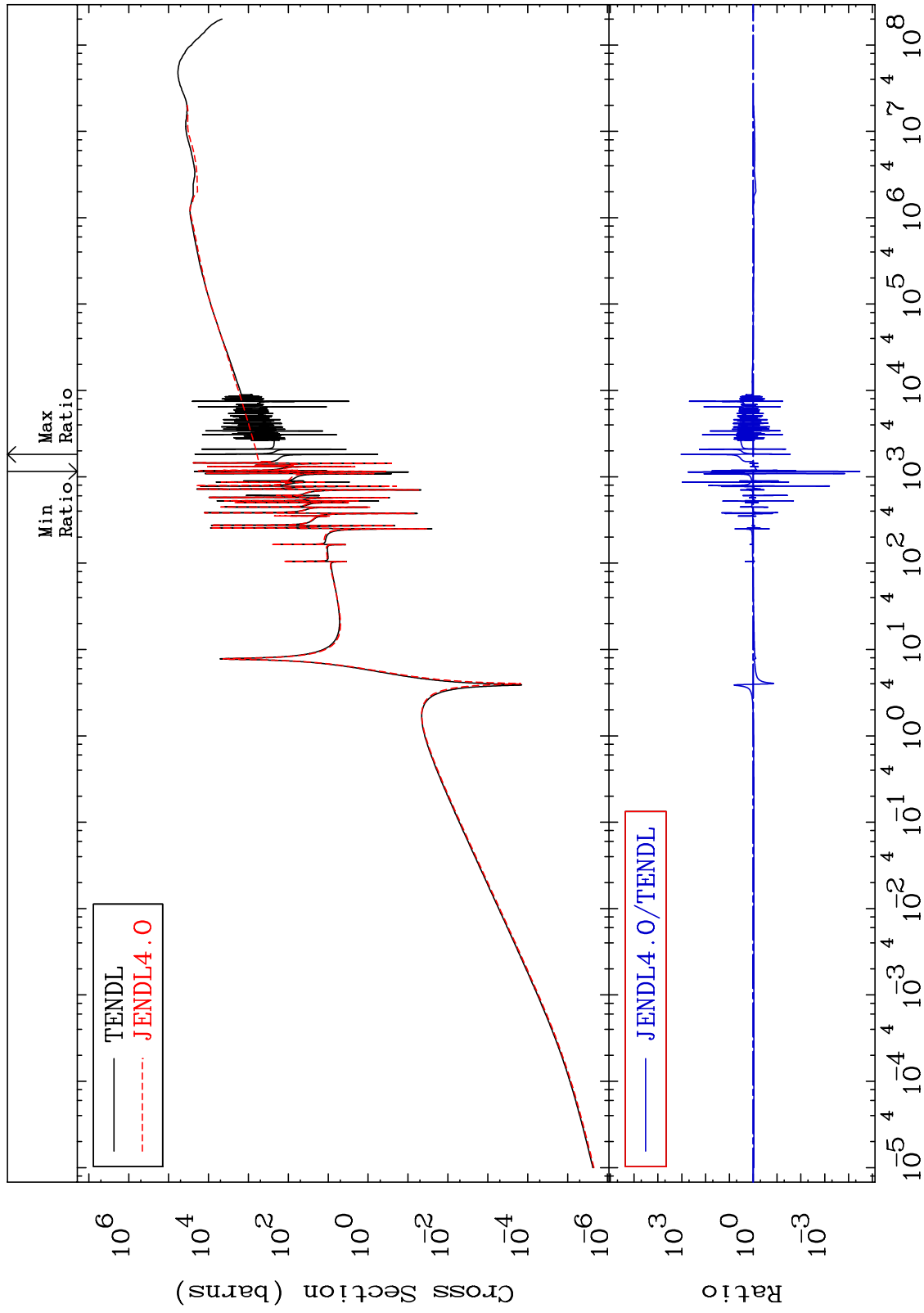
MAT 7237 Kerma total (eV-barns) Cross Section 72-Hf-178 -2005. To 9999. %



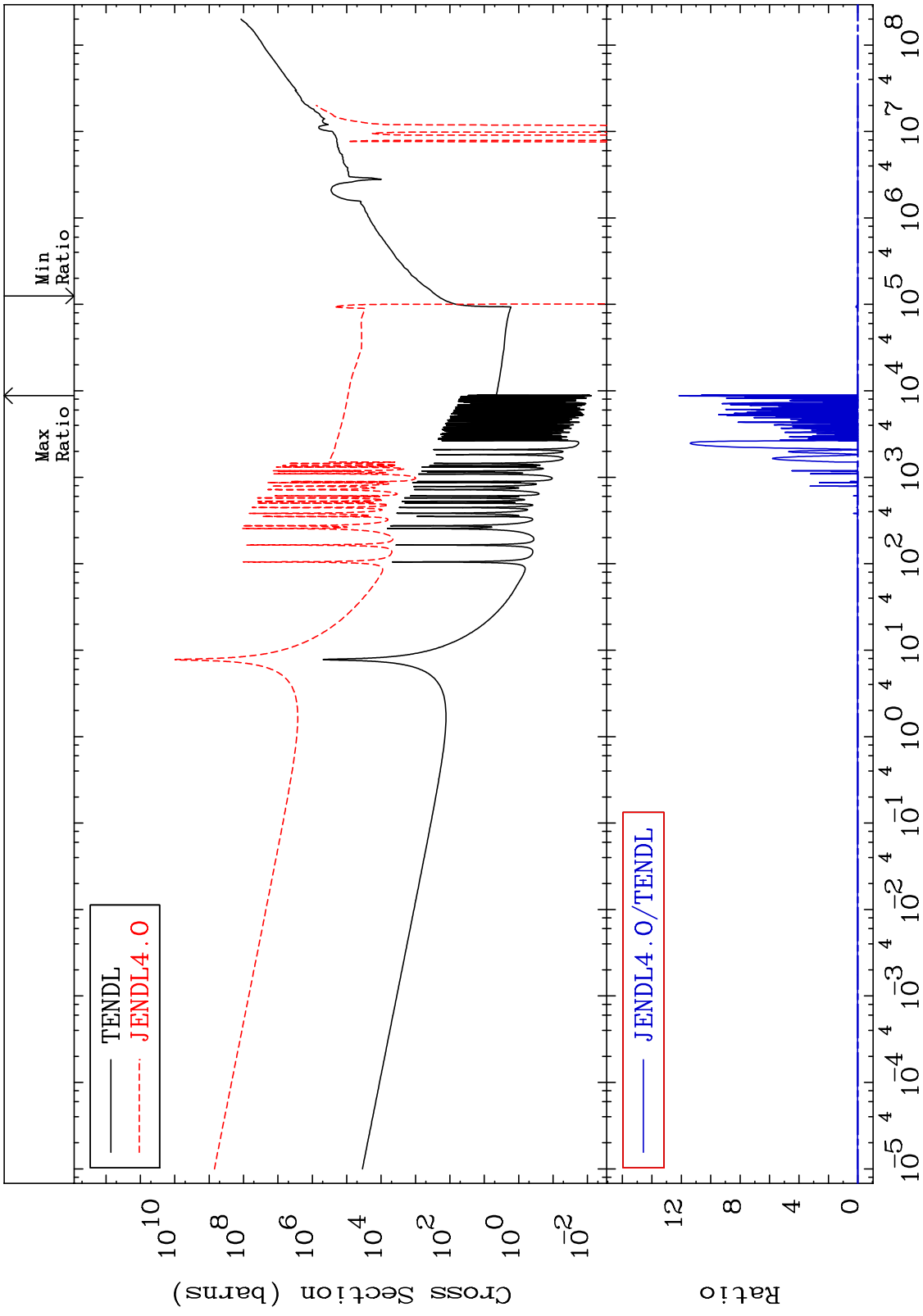
MAT 7237

Kerma elastic
Cross Section

72-Hf-178
-100.0 To 9999. %



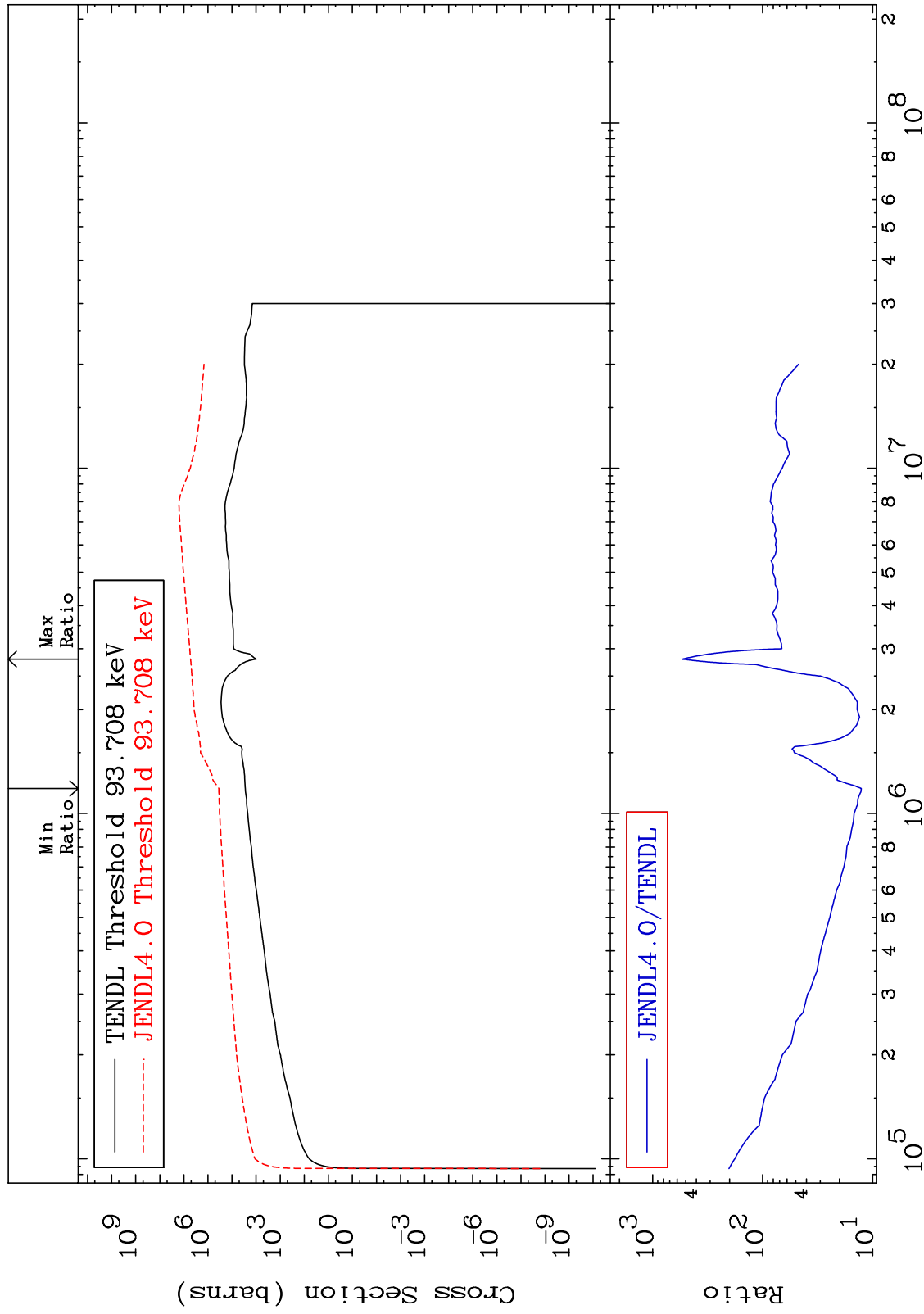
MAT 7237 Kerma non-elastic (all but mt2) 72-Hf-178
 Cross Section -9999. To 9999. %



MAT 7237

Kerma inelastic (mt51-91)
Cross Section

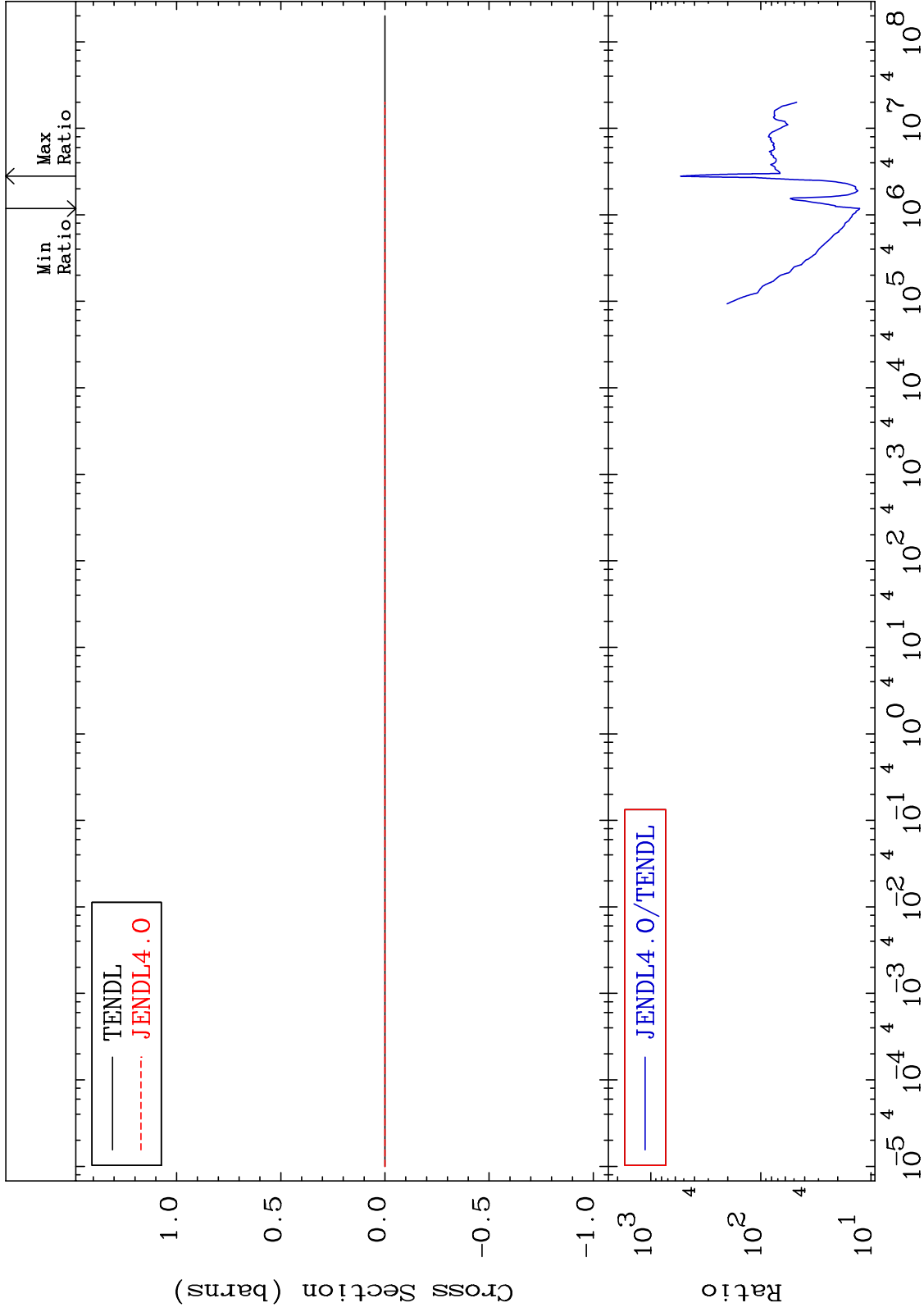
72-Hf-178
1167. To 9999. %

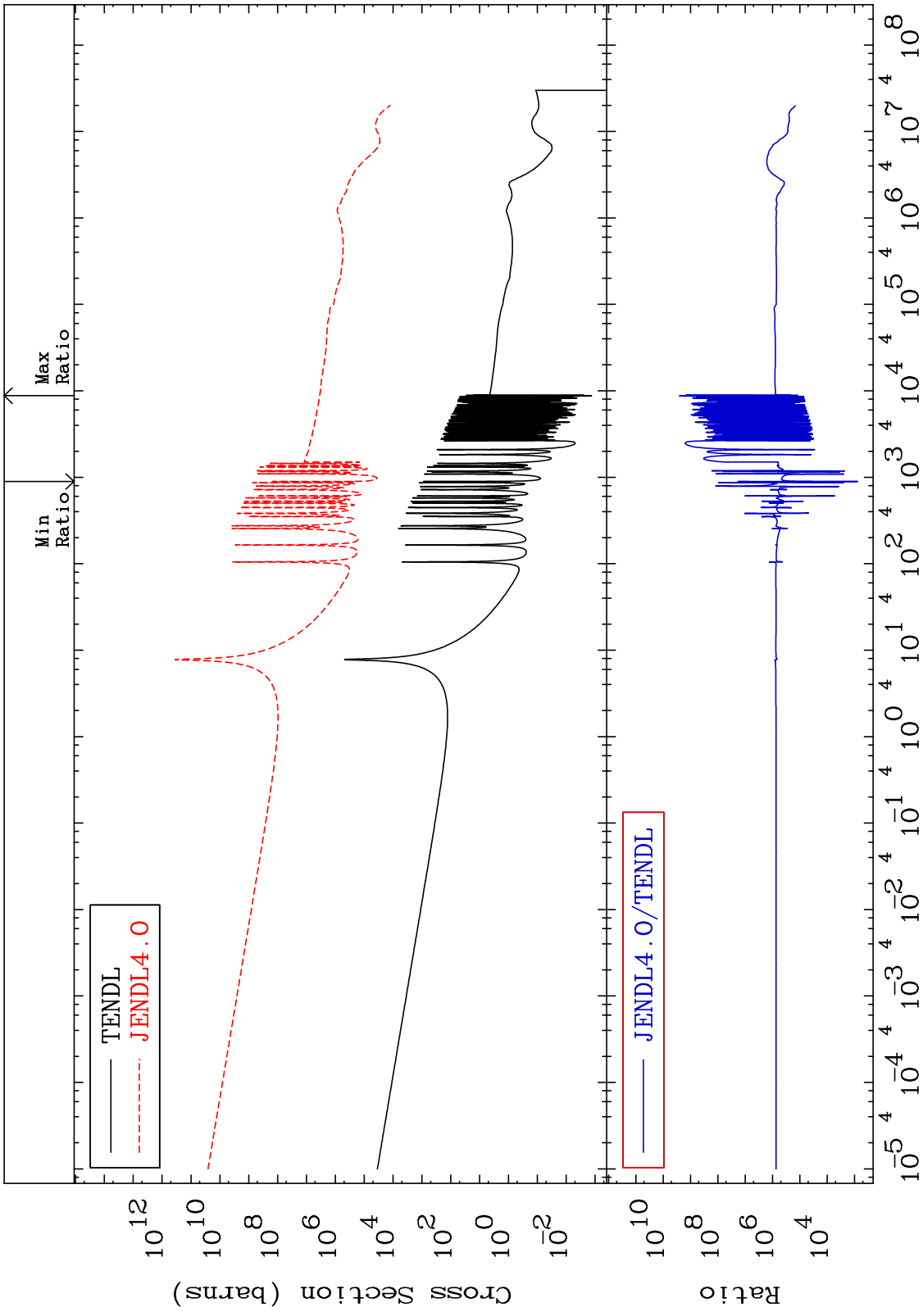


MAT 7237

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

72-Hf-178
1167. To 9999. %

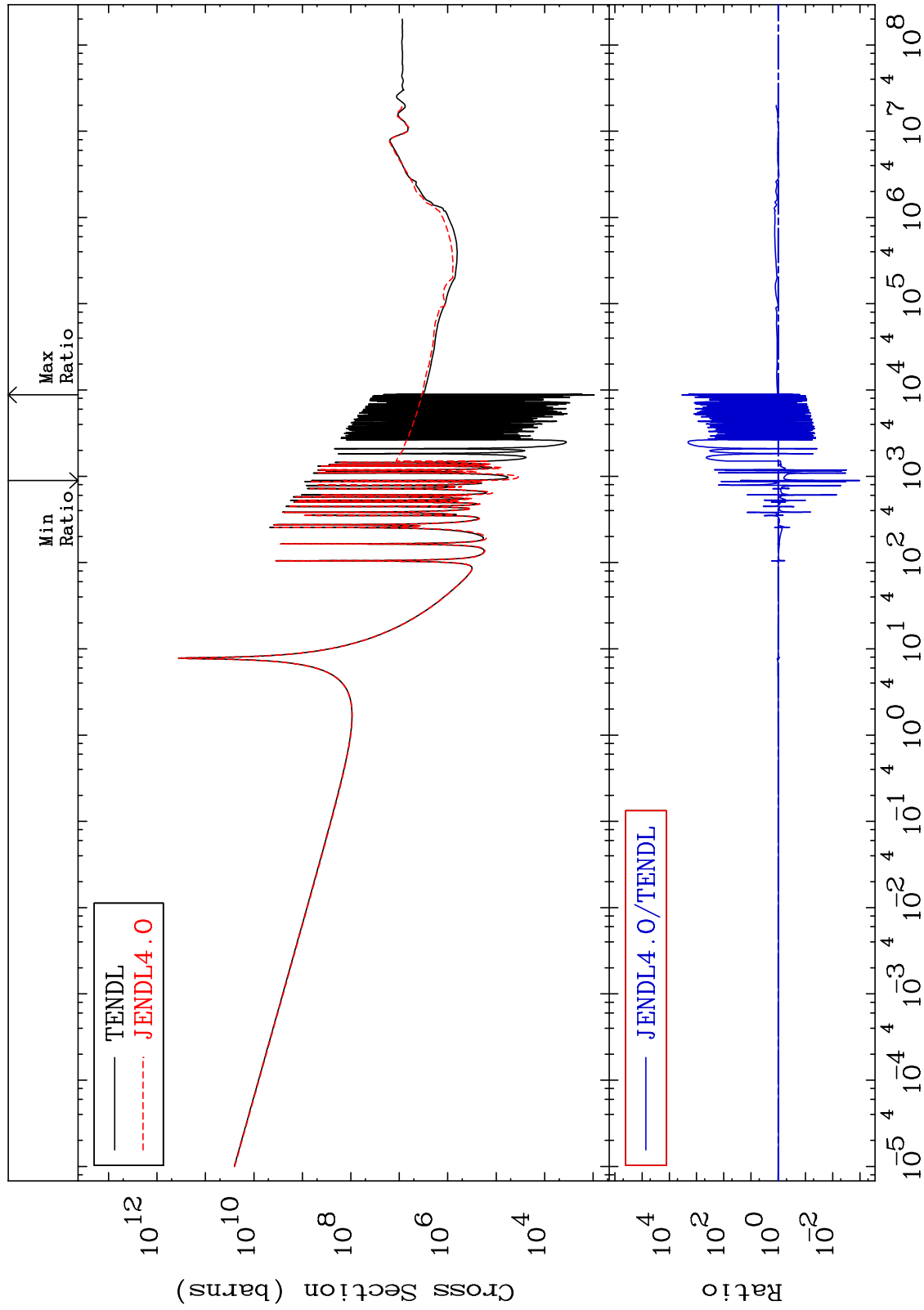




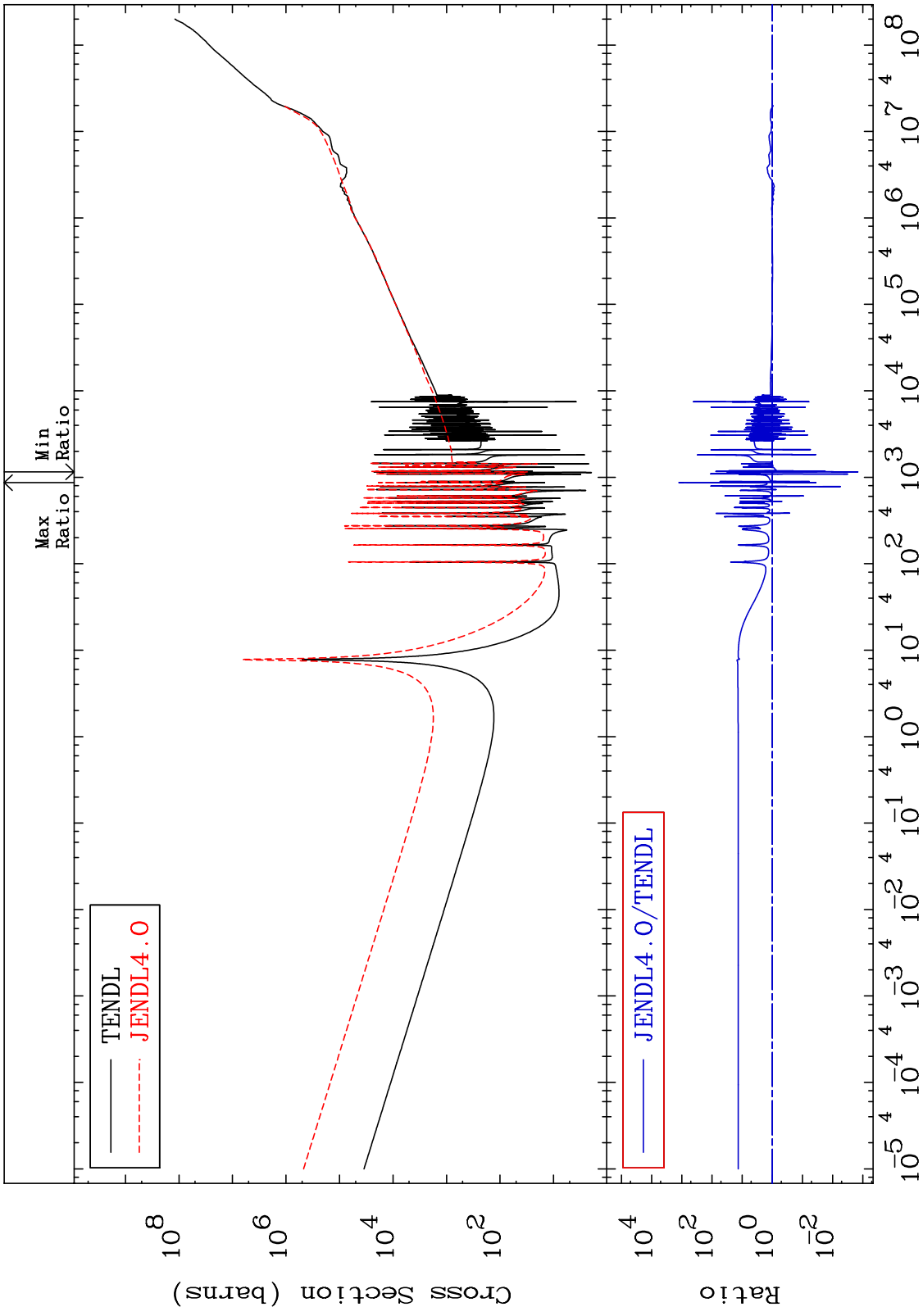
MAT 7237

Total photon (eV-barns)
Cross Section

72-Hf-178
-99.90 To 9999. %



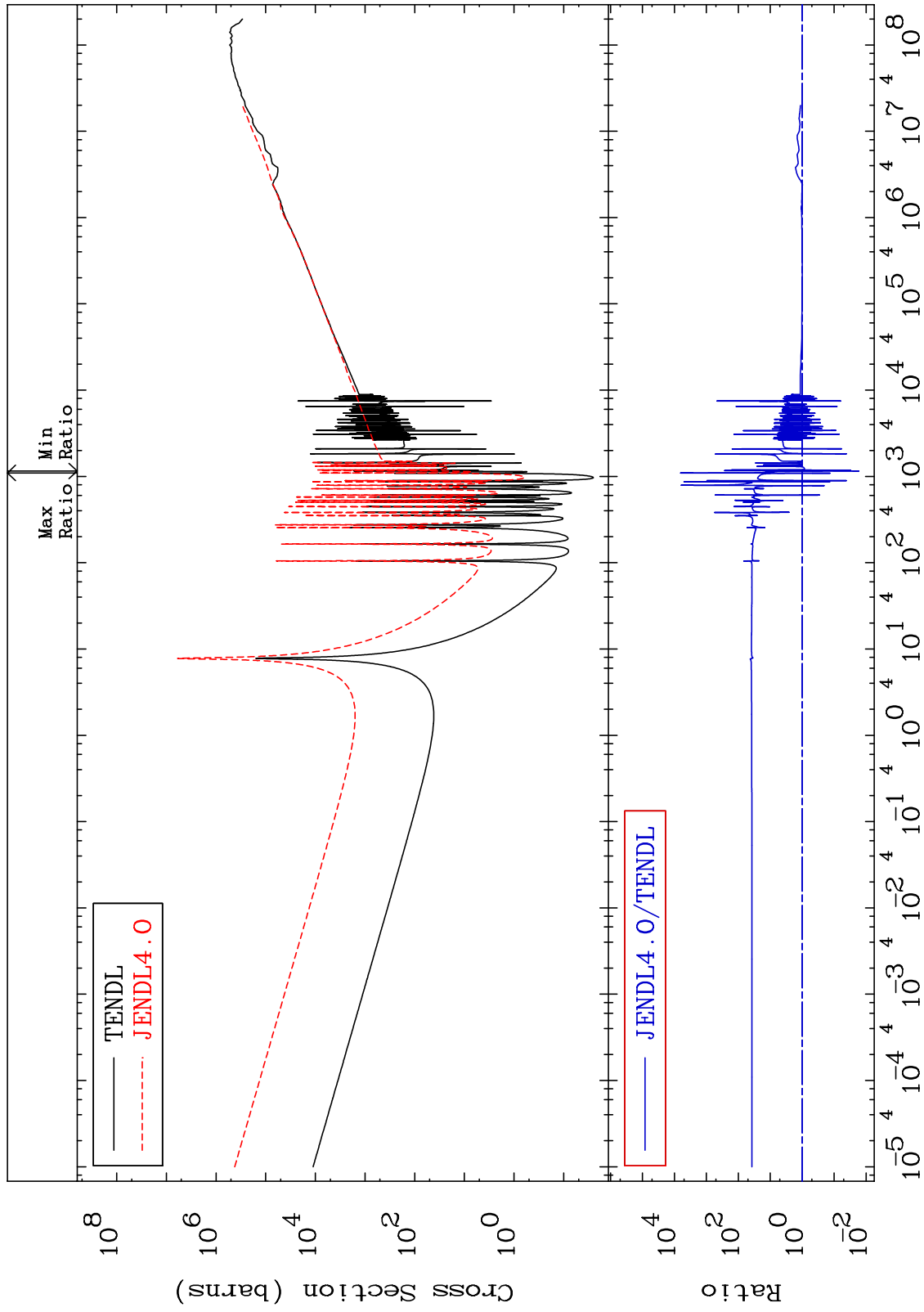
MAT 7237 Total kinematic kerma (high limit) 72-Hf-178
 Cross Section -99.85 To 9999. %



MAT 7237

Dpa total (eV-barns)
Cross Section

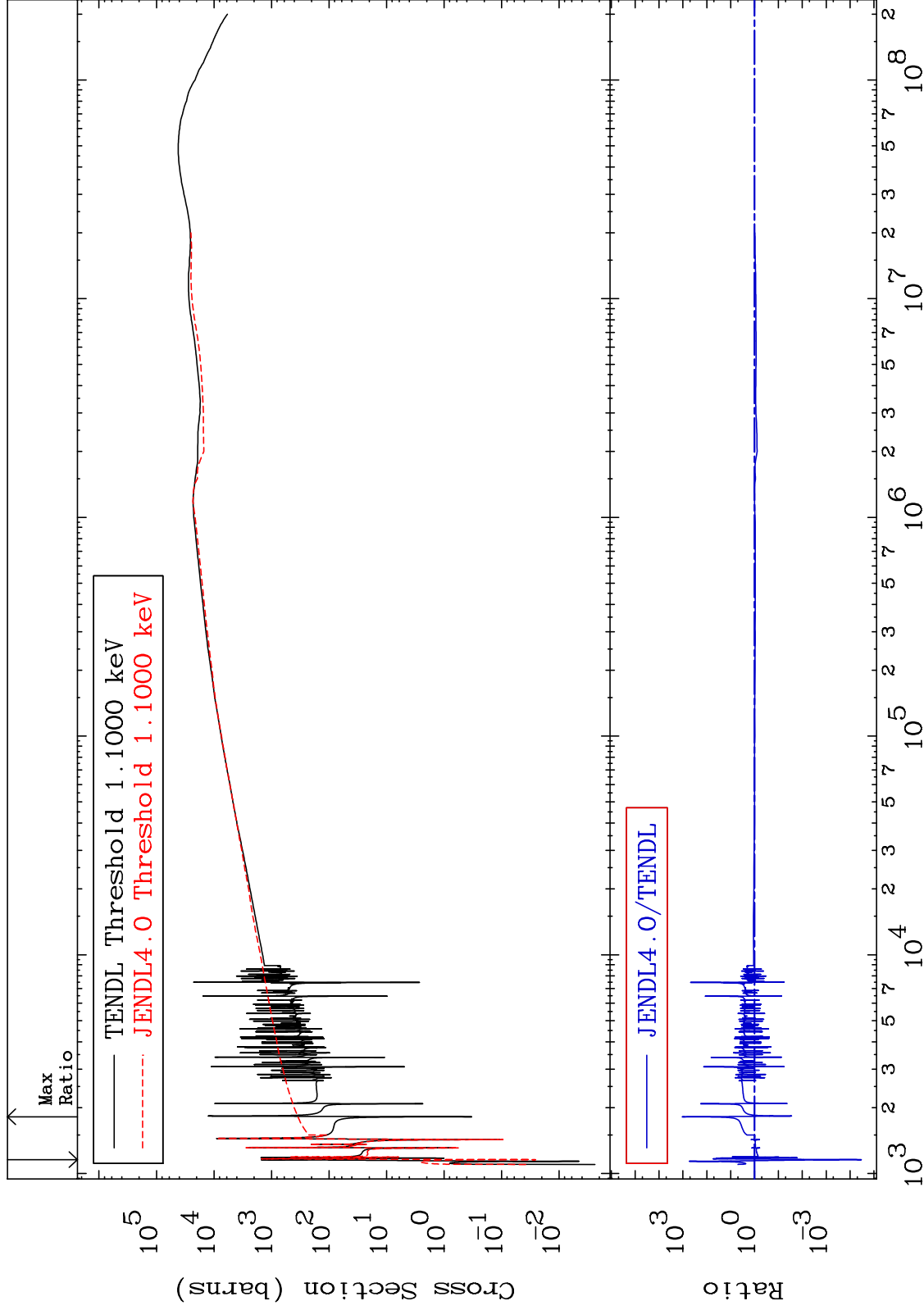
72-Hf-178
-98.34 To 9999. %



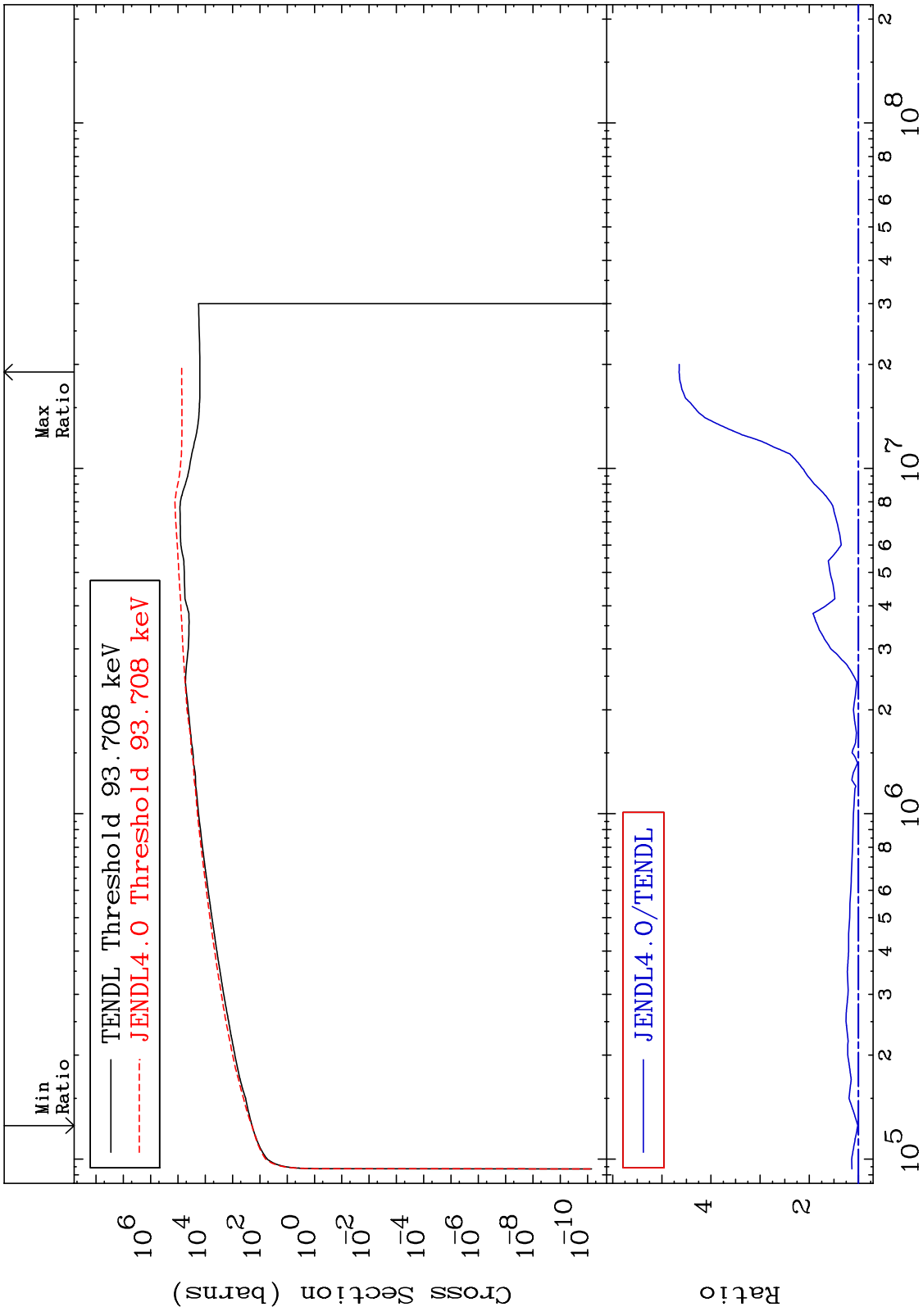
MAT 7237

Dpa elastic (mt2)
Cross Section

72-Hf-178
-100.0 To 9999. %

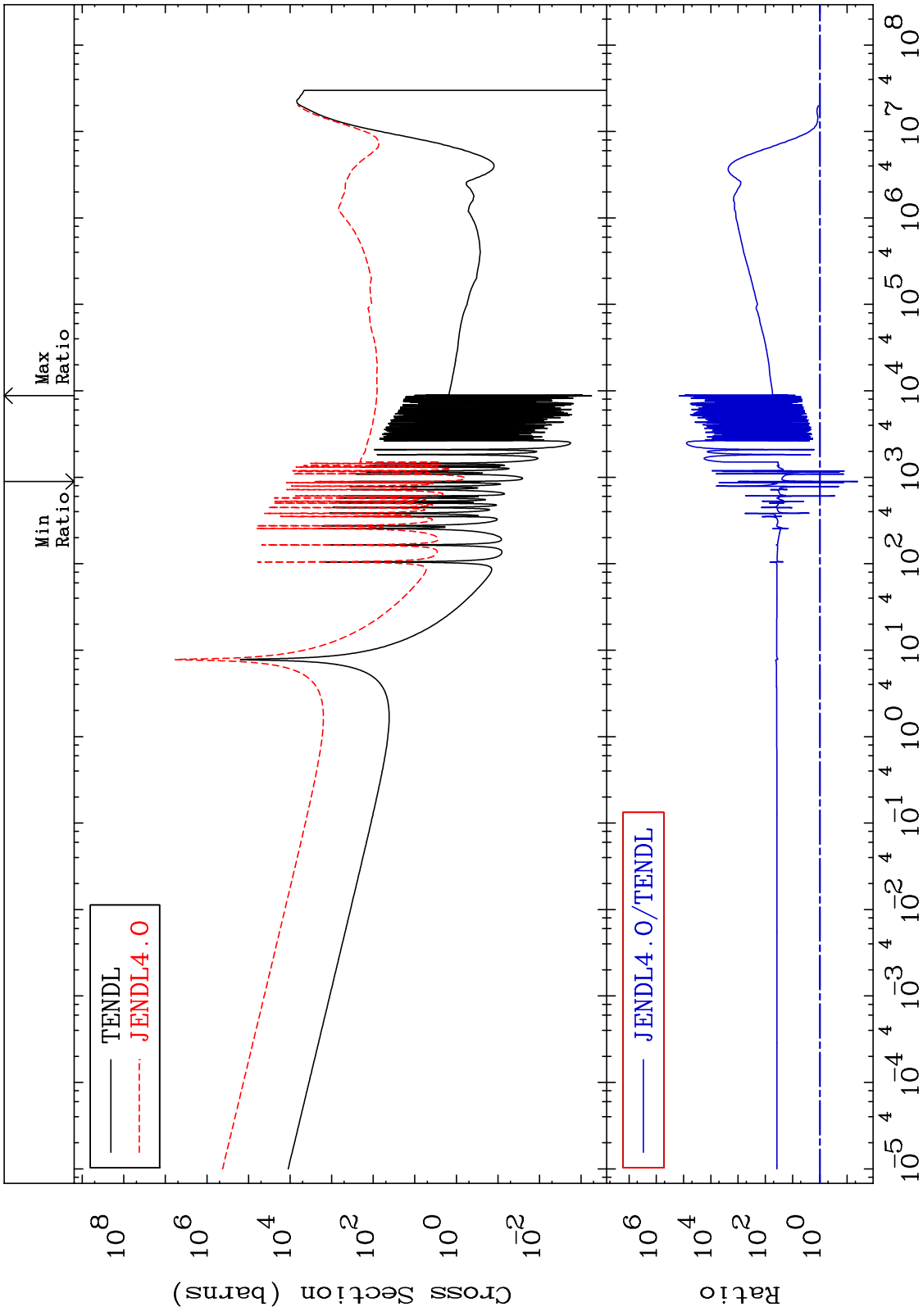


MAT 7237 Dpa inelastic (mt51-91) 72-Hf-178
Cross Section 1.353 To 365.0 %



60 Incident Energy (eV) 72-Hf-178

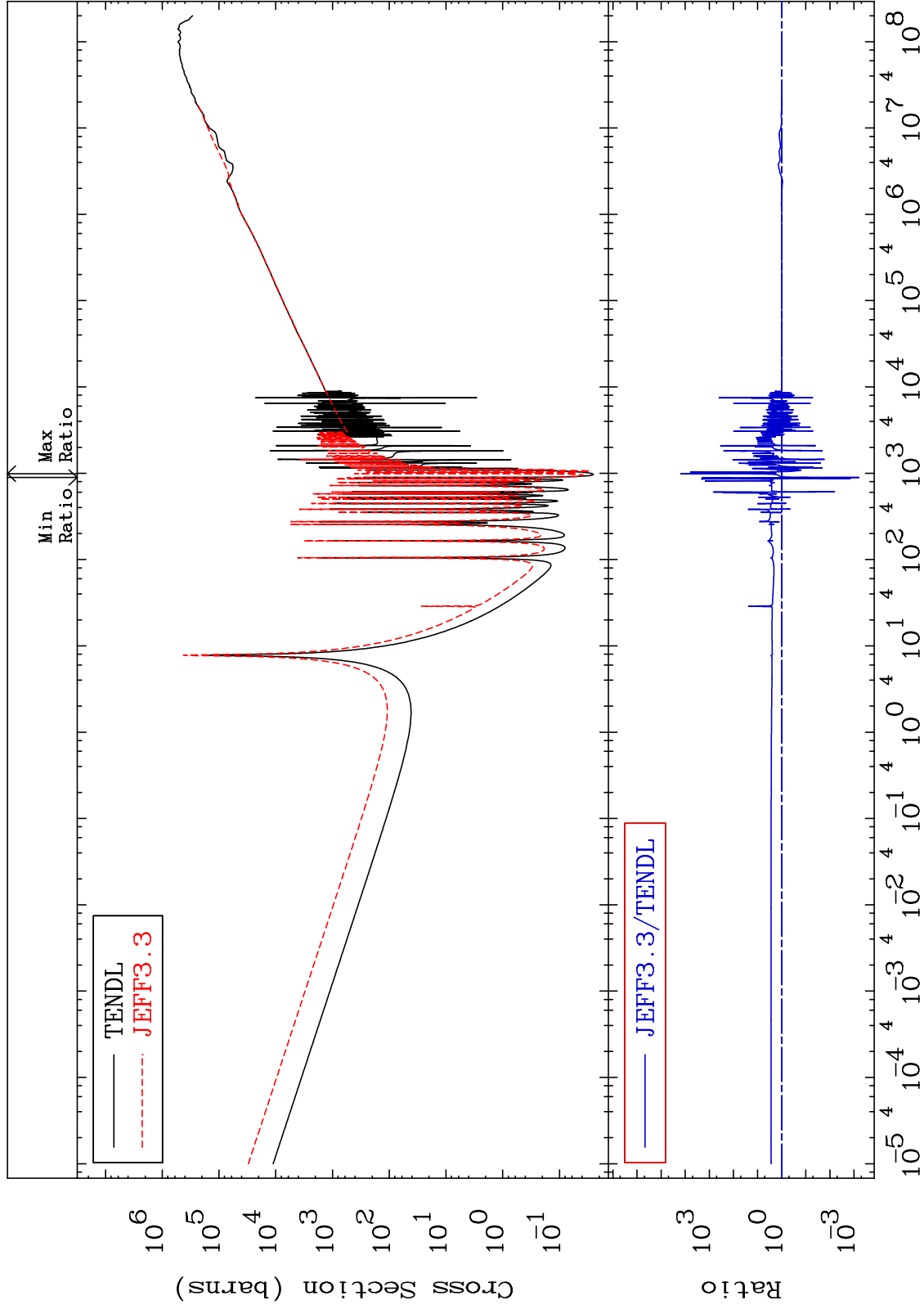
MAT 7237 Dpa disappearance (mt102 -120) 72-Hf-178
 Cross Section -95.95 To 9999. %



MAT 7237

Dpa total (eV-barns)
Cross Section

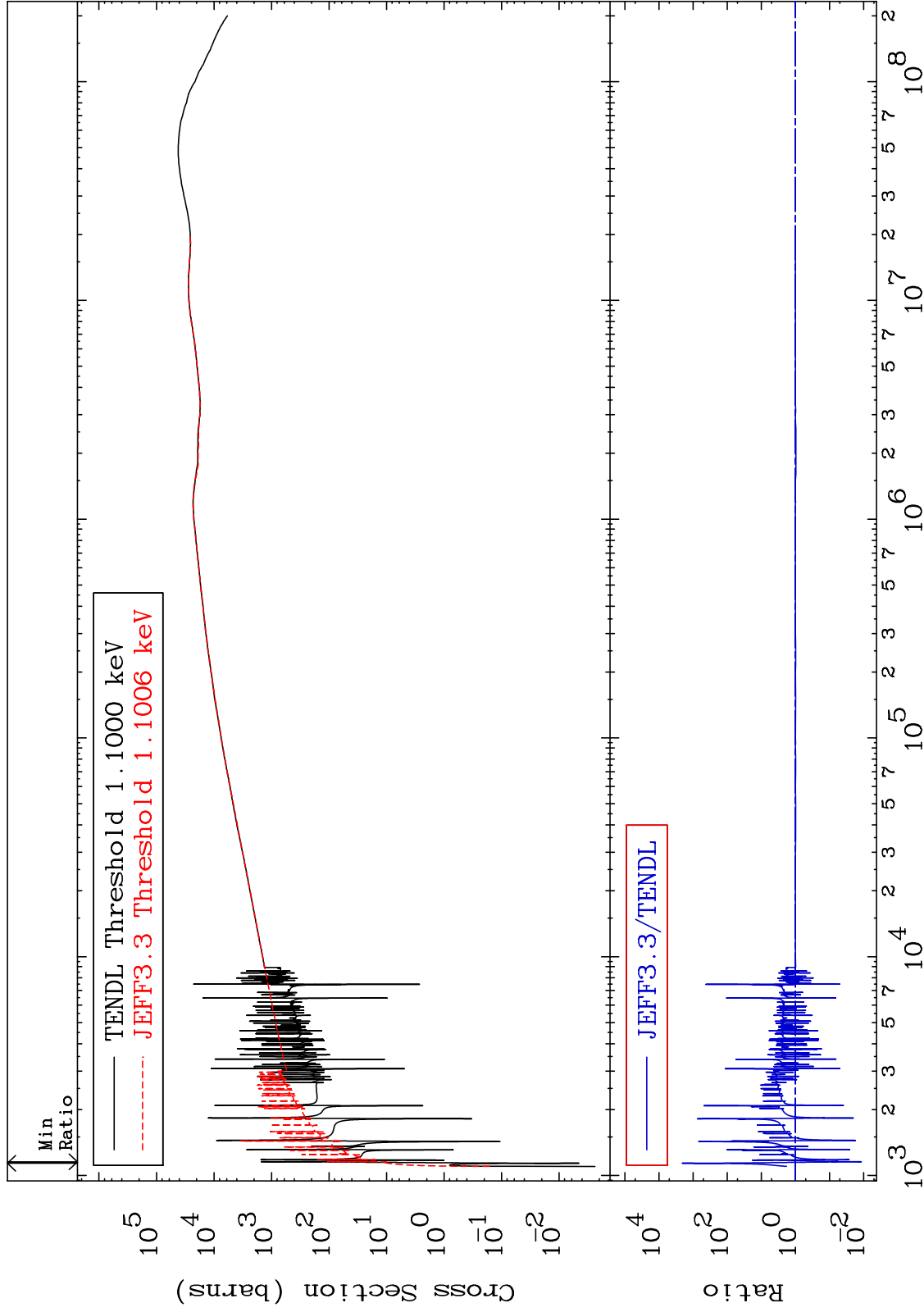
72-Hf-178
-99.94 To 9999. %



MAT 7237

Dpa elastic (mt2)
Cross Section

72-Hf-178
-98.82 To 9999. %



63

Incident Energy (eV)

72-Hf-178

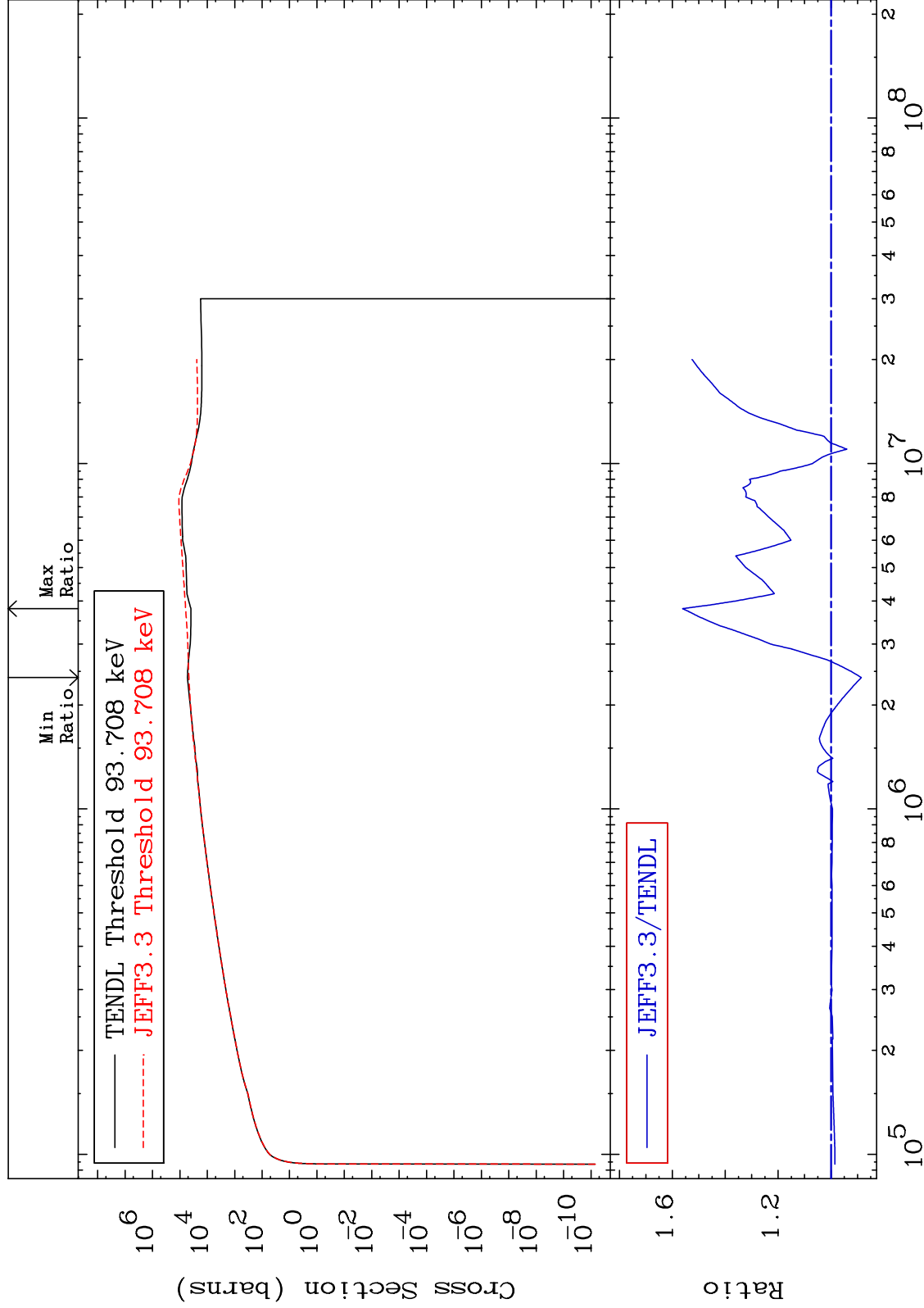
MAT 7237

Dpa inelastic (mt51-91)

72-Hf-178

-11.45 To 56.09 %

Cross Section



64

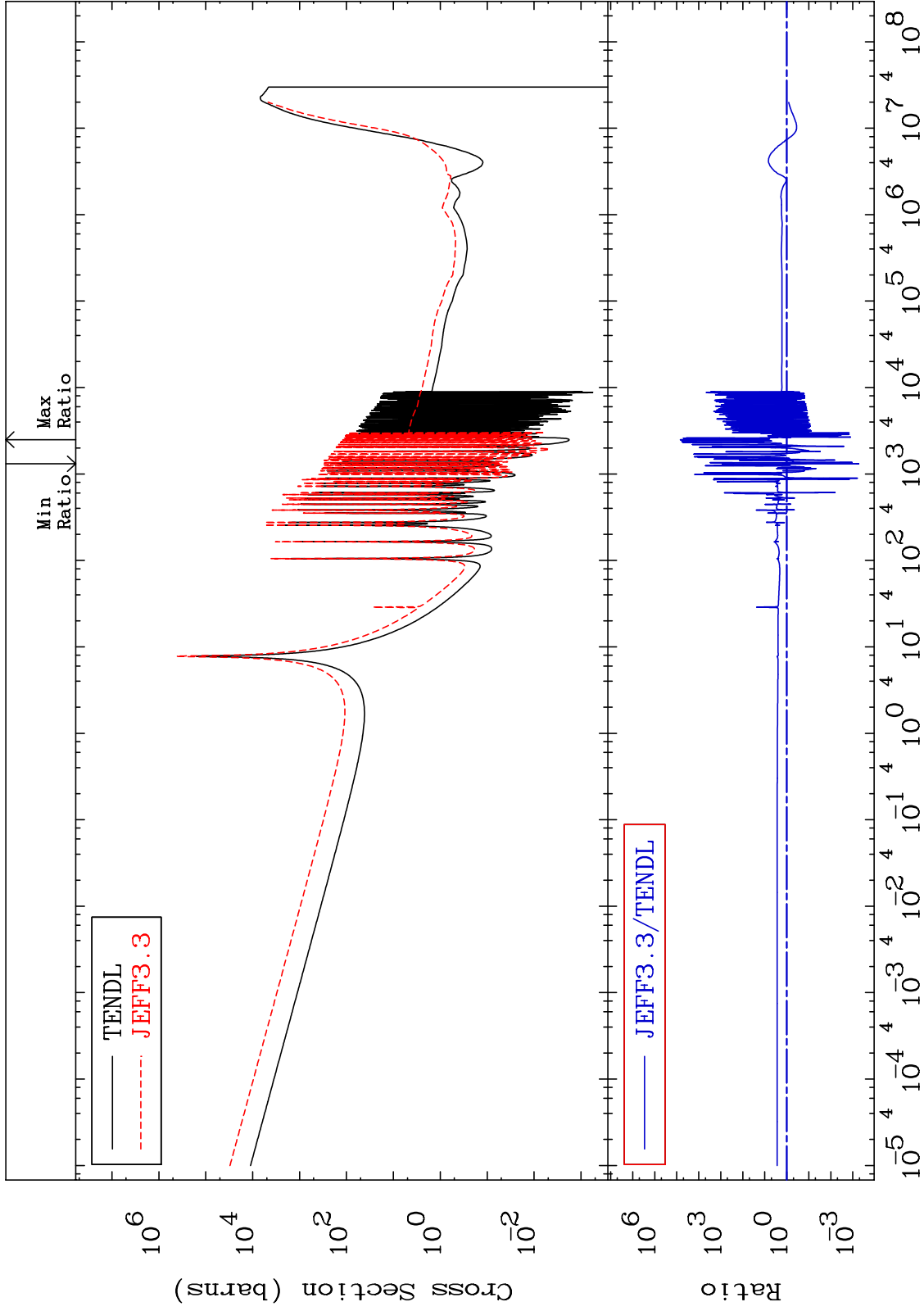
Incident Energy (eV)

72-Hf-178

MAT 7237

Dpa disappearance (mt102 -120)
Cross Section

72-Hf-178
-99.95 To 9999. %

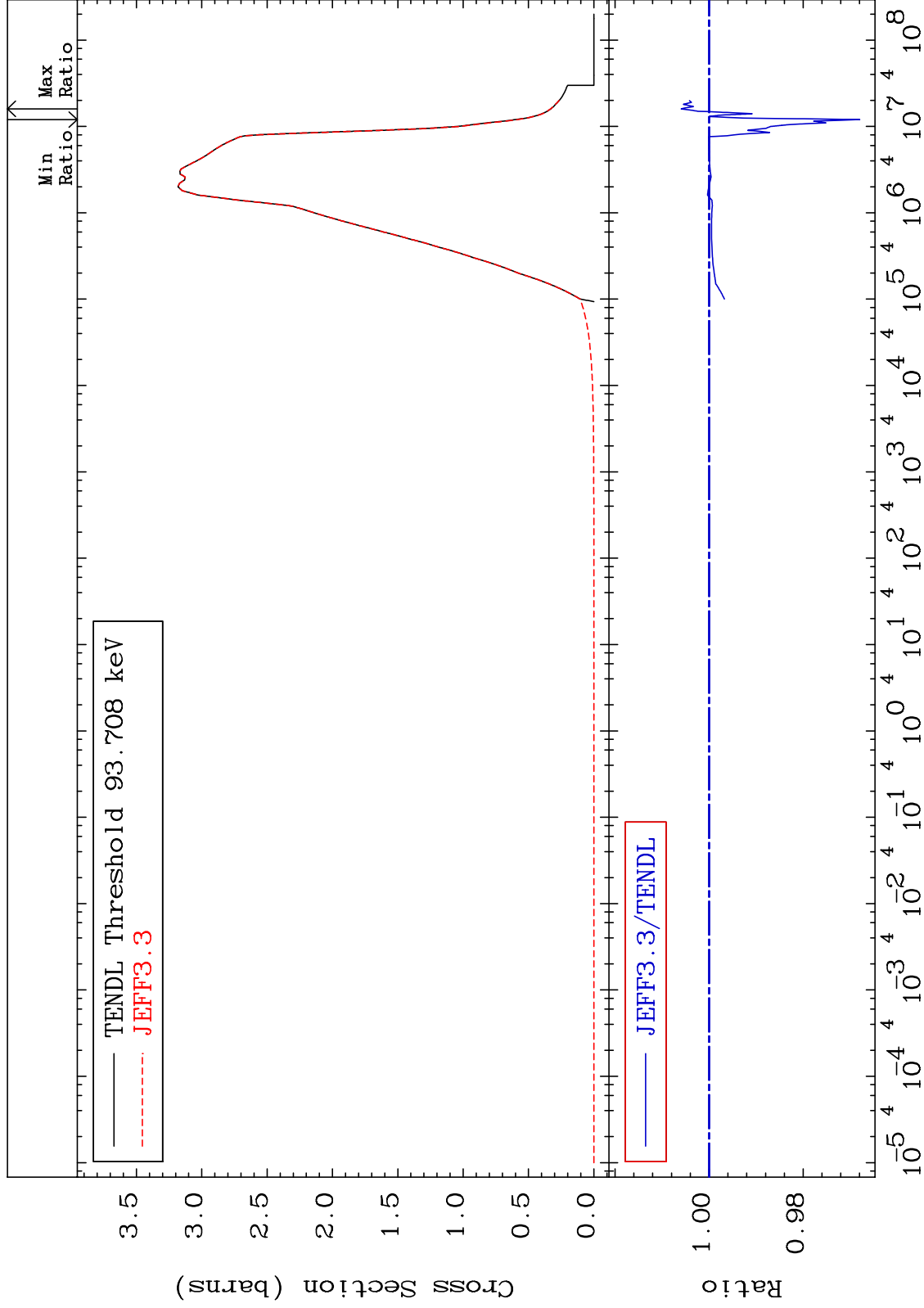


MAT 7237

Inelastic: 72-Hf-178g

72-Hf-178

Radionuclide Production Cross Section -3.204 To 0.593 %

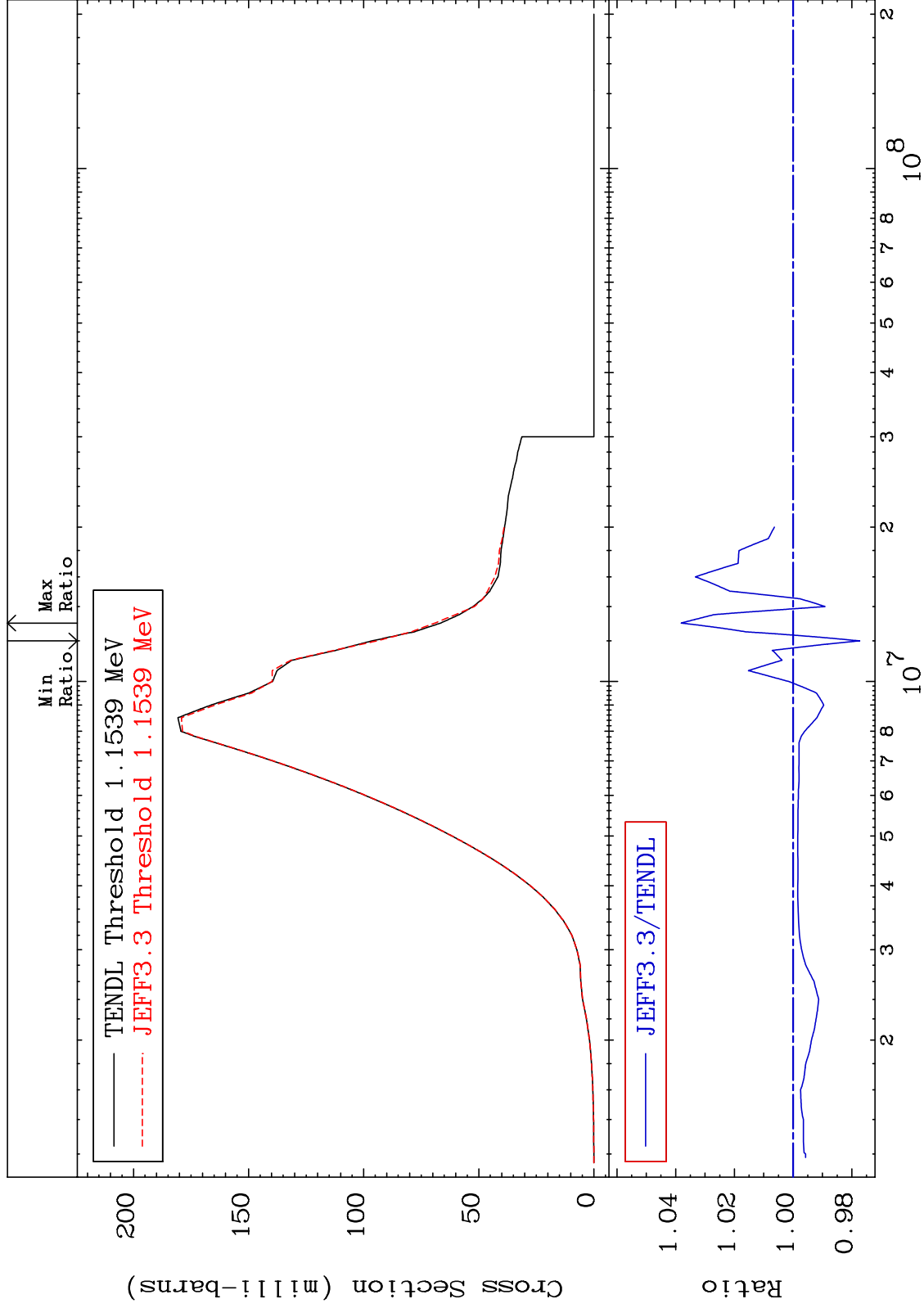


MAT 7237

Inelastic: 72-Hf-178m5

72-Hf-178

Radionuclide Production Cross Section -2.269 To 3.810 %



67

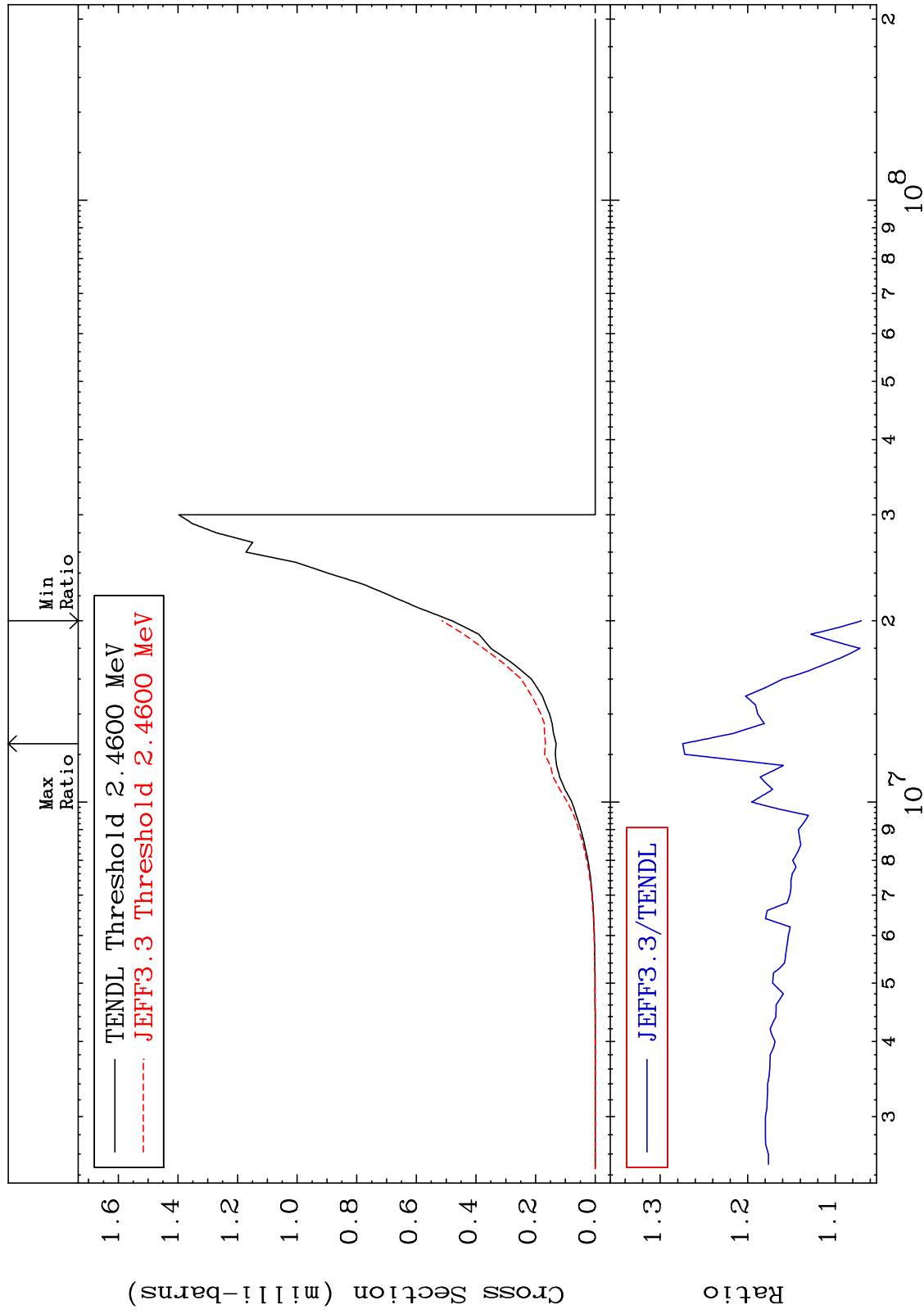
72-Hf-178

MAT 7237

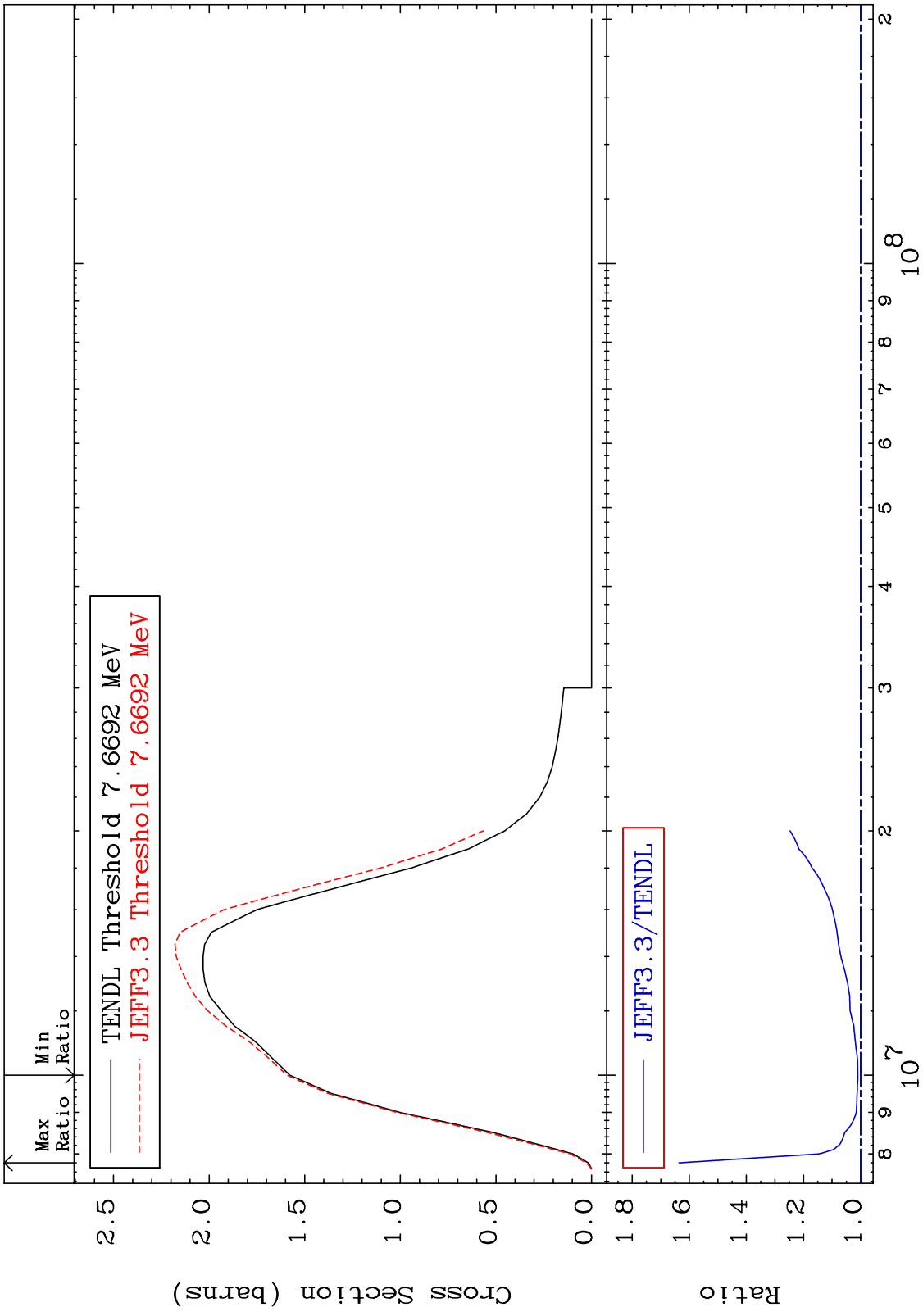
Inelastic: 72-Hf-178m30

72-Hf-178

Radionuclide Production Cross Section 7.019 To 27.43 %



MAT 7237 (n,2n):72-Hf-177g 72-Hf-178
Radionuclide Production Cross Section 0.969 To 63.59 %

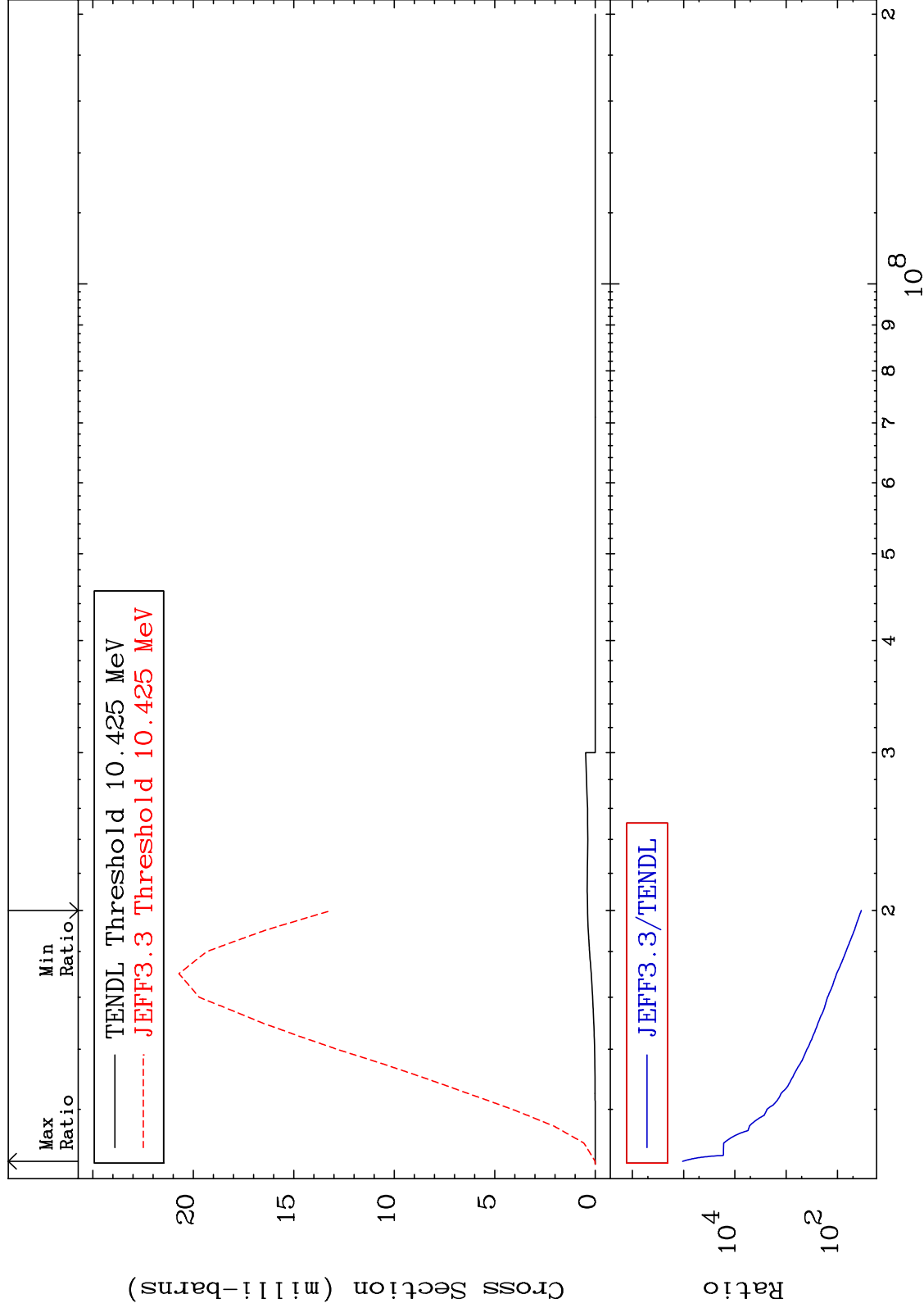


MAT 7237

(n,2n):72-Hf-177m10

72-Hf-178

Radionuclide Production Cross Section 3329. To 9999. %



70

Incident Energy (eV)

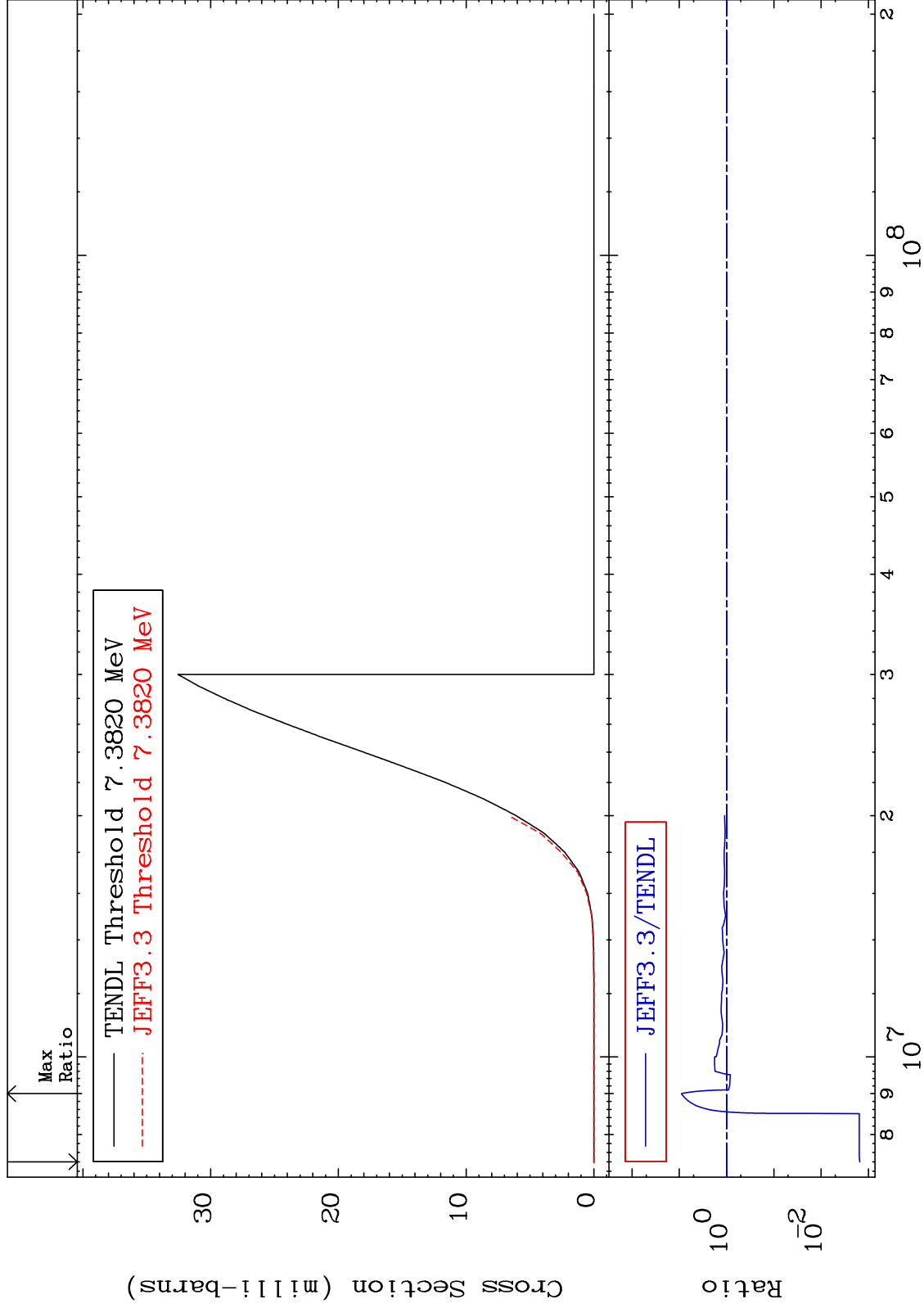
72-Hf-178

MAT 7237

(n, n') p: 71-Lu-177g

72-Hf-178

Radionuclide Production Cross Section -99.85 To 809.9 %

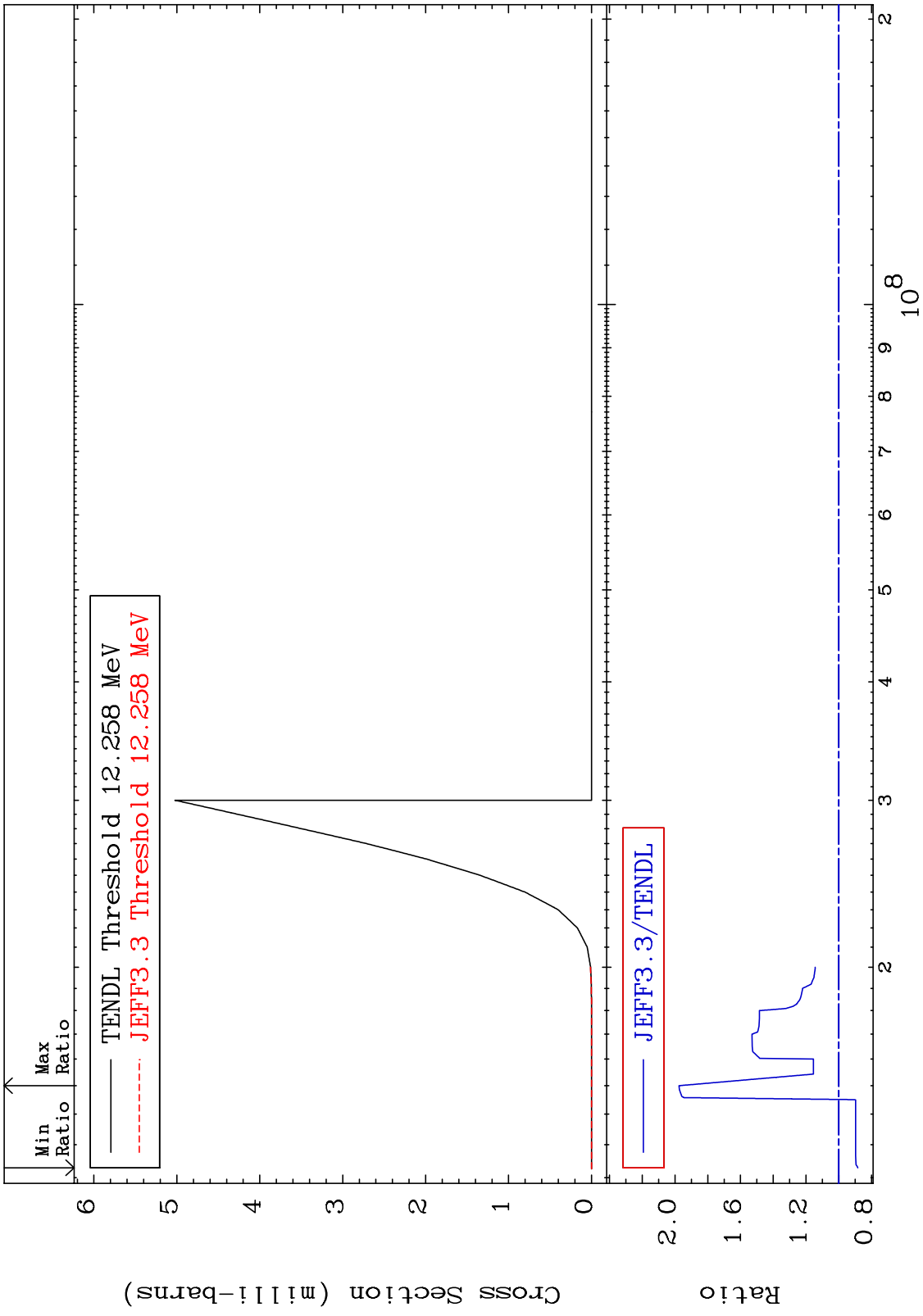


71

Incident Energy (eV)

72-Hf-178

MAT 7237 (n, n') d:71-Lu-176g 72-Hf-178
 Radionuclide Production Cross Section -11.63 To 97.53 %

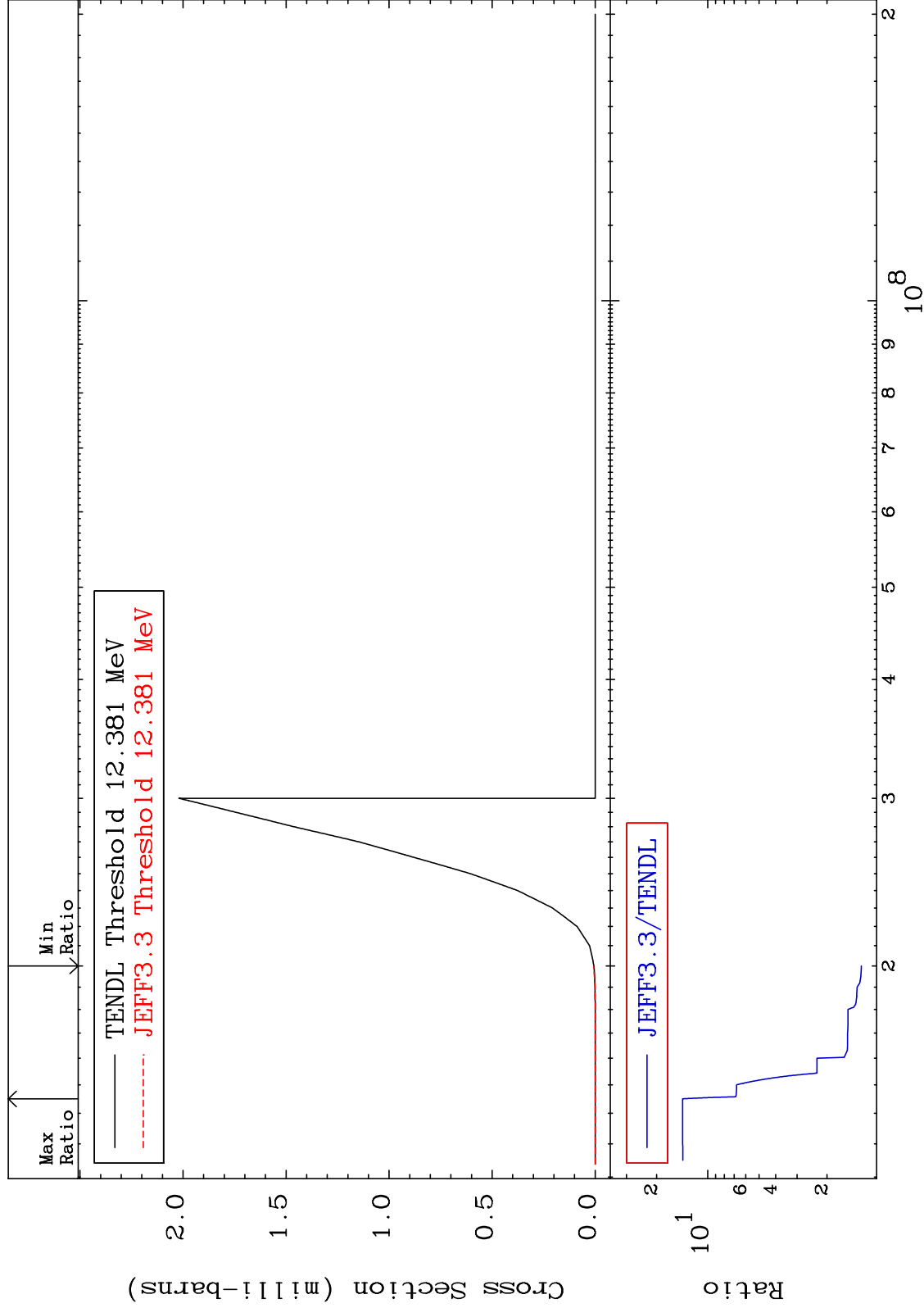


MAT 7237

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

72-Hf-178

Radionuclide Production Cross Section 25.75 To 1305. %



73

Incident Energy (eV)

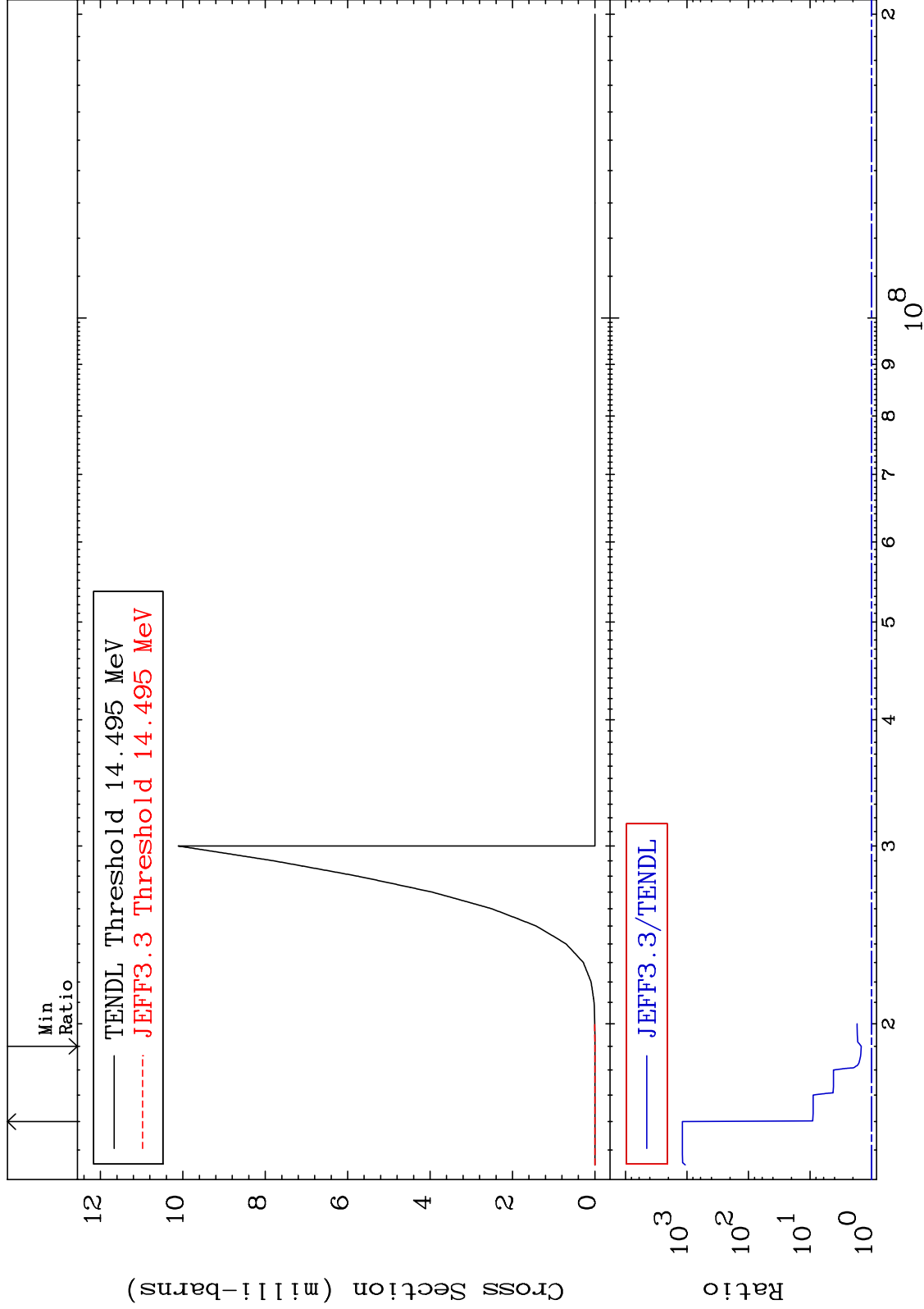
72-Hf-178

MAT 7237

(n,2n) p:71-Lu-176g

72-Hf-178

Radionuclide Production Cross Section 46.68 To 9999. %

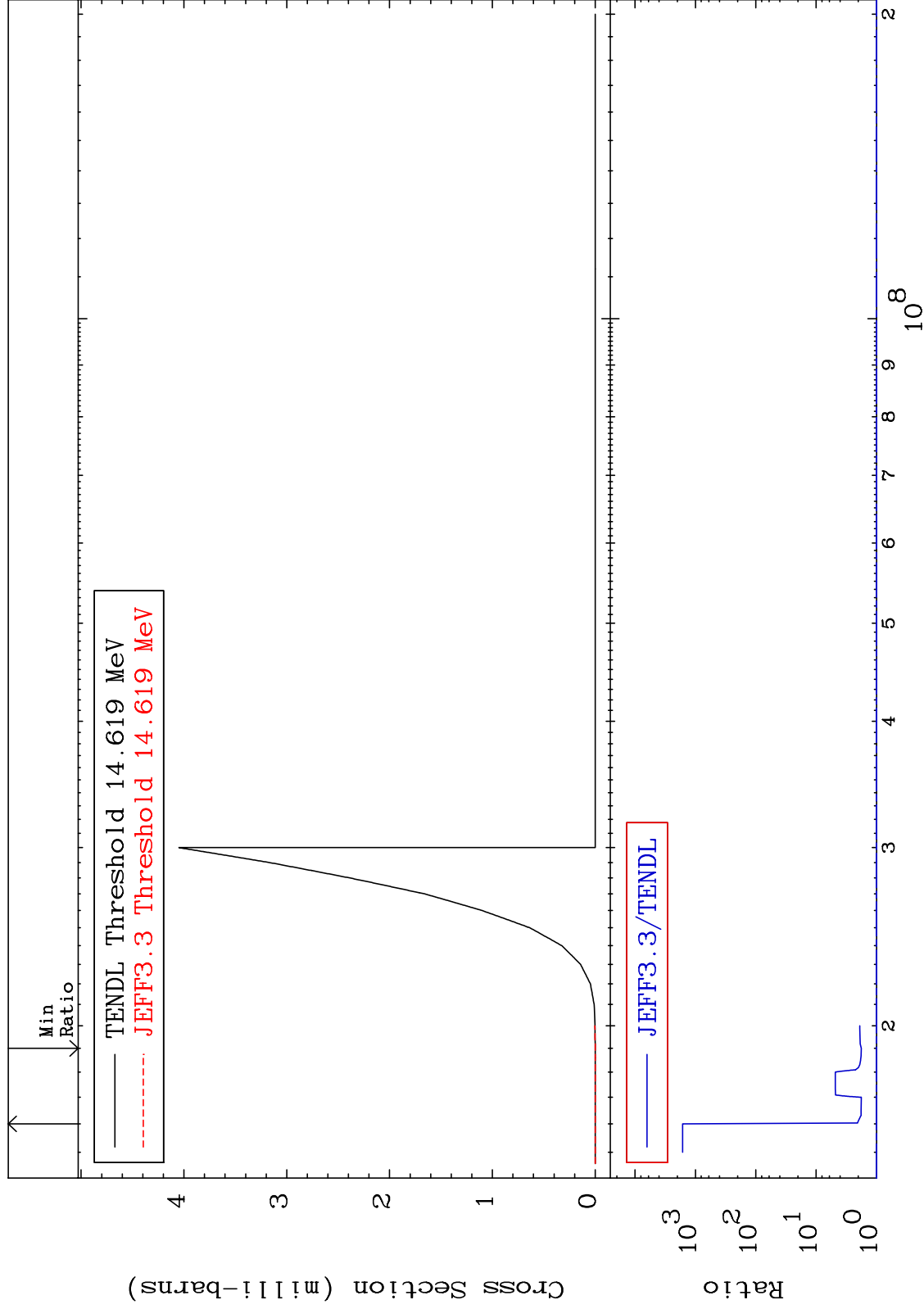


MAT 7237

(n,2n) p:71-Lu-176m1

72-Hf-178

Radionuclide Production Cross Section 77.84 To 9999. %

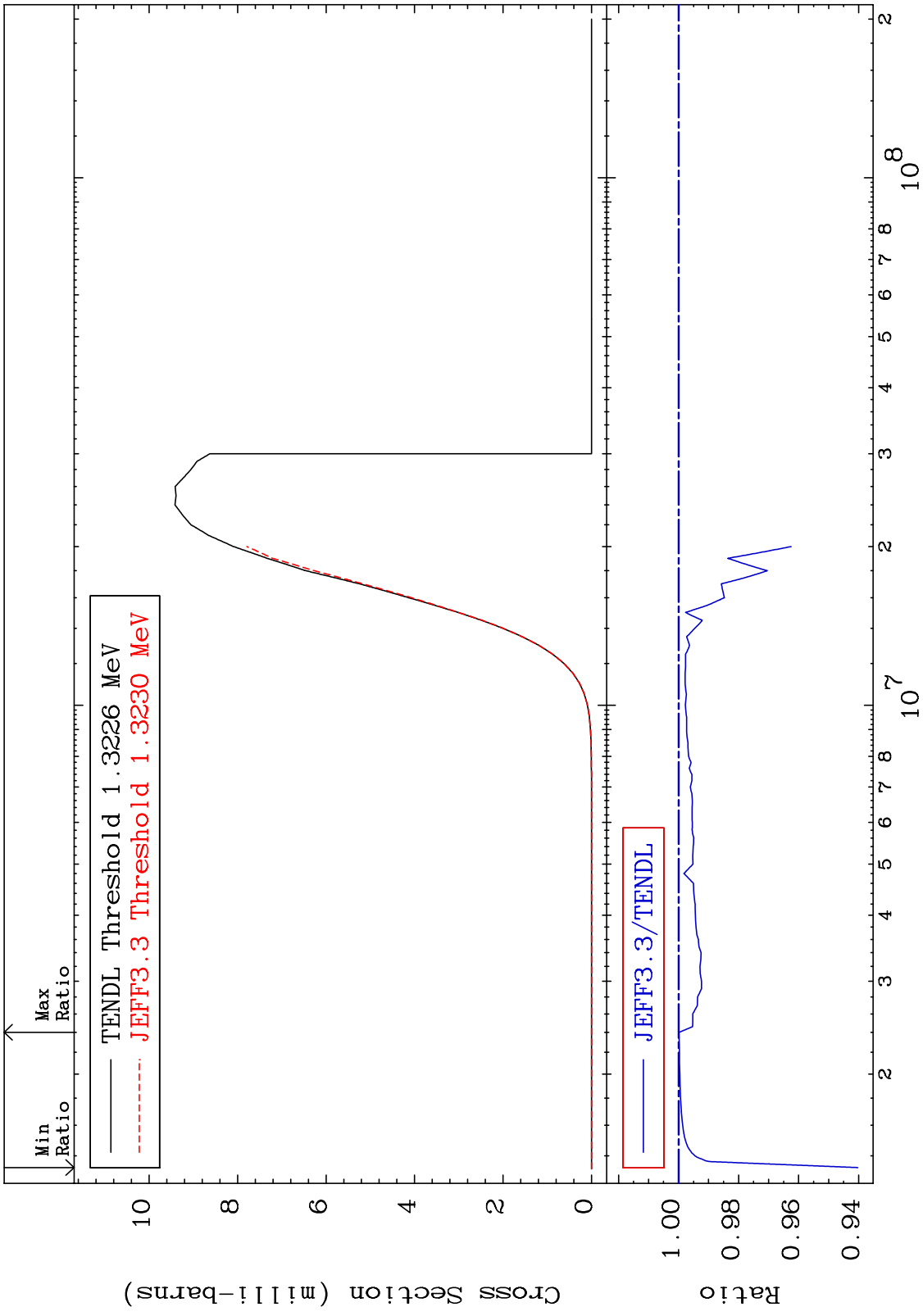


75

Radionuclide Production Cross Section

72-Hf-178

MAT 7237 (n,p):71-Lu-178g 72-Hf-178
 Radionuclide Production Cross Section -5.973 To -0.016%



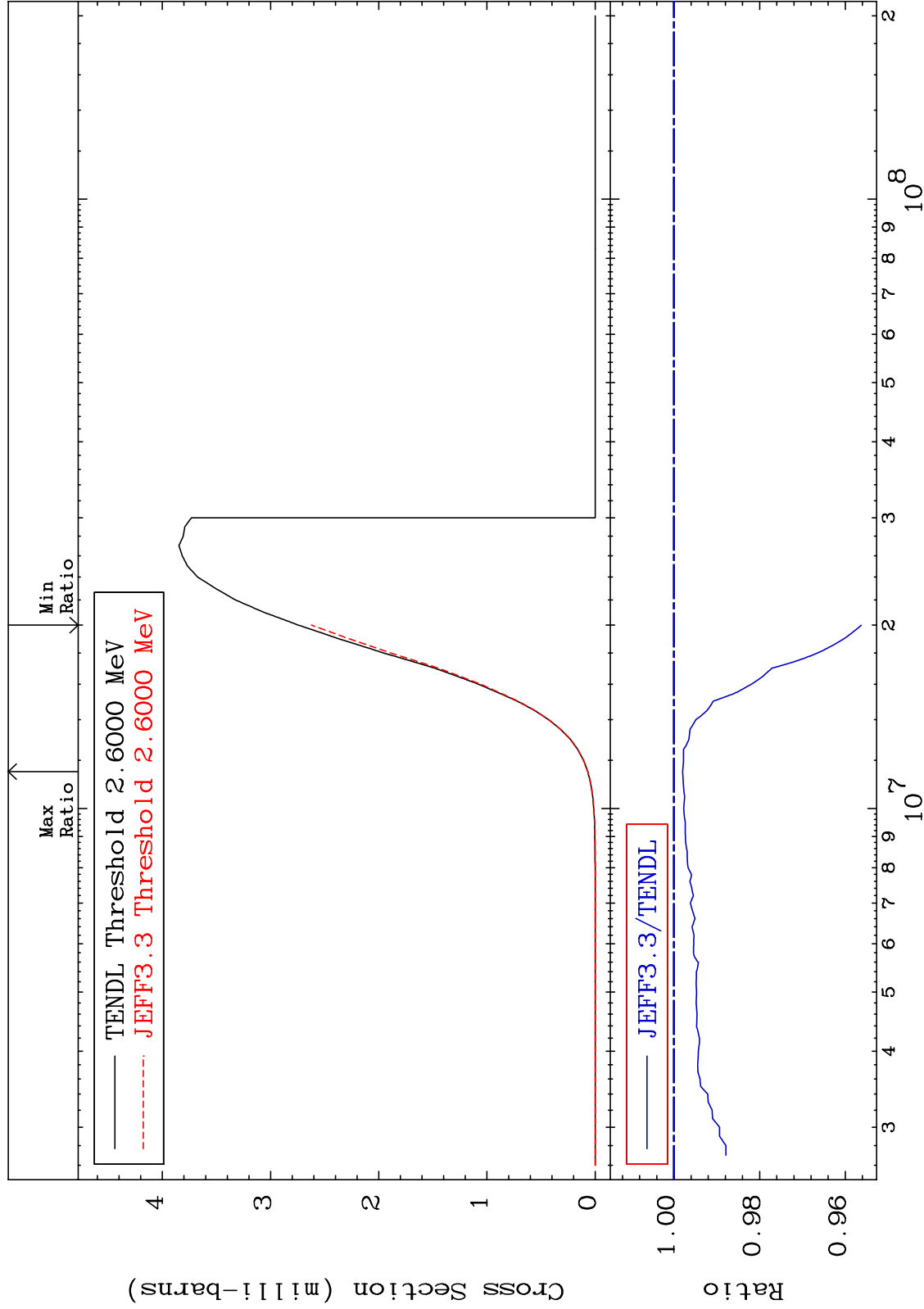
MAT 7237

(n,p):71-Lu-178m3

72-Hf-178

Radionuclide Production Cross Section

-4.374 To -0.204%



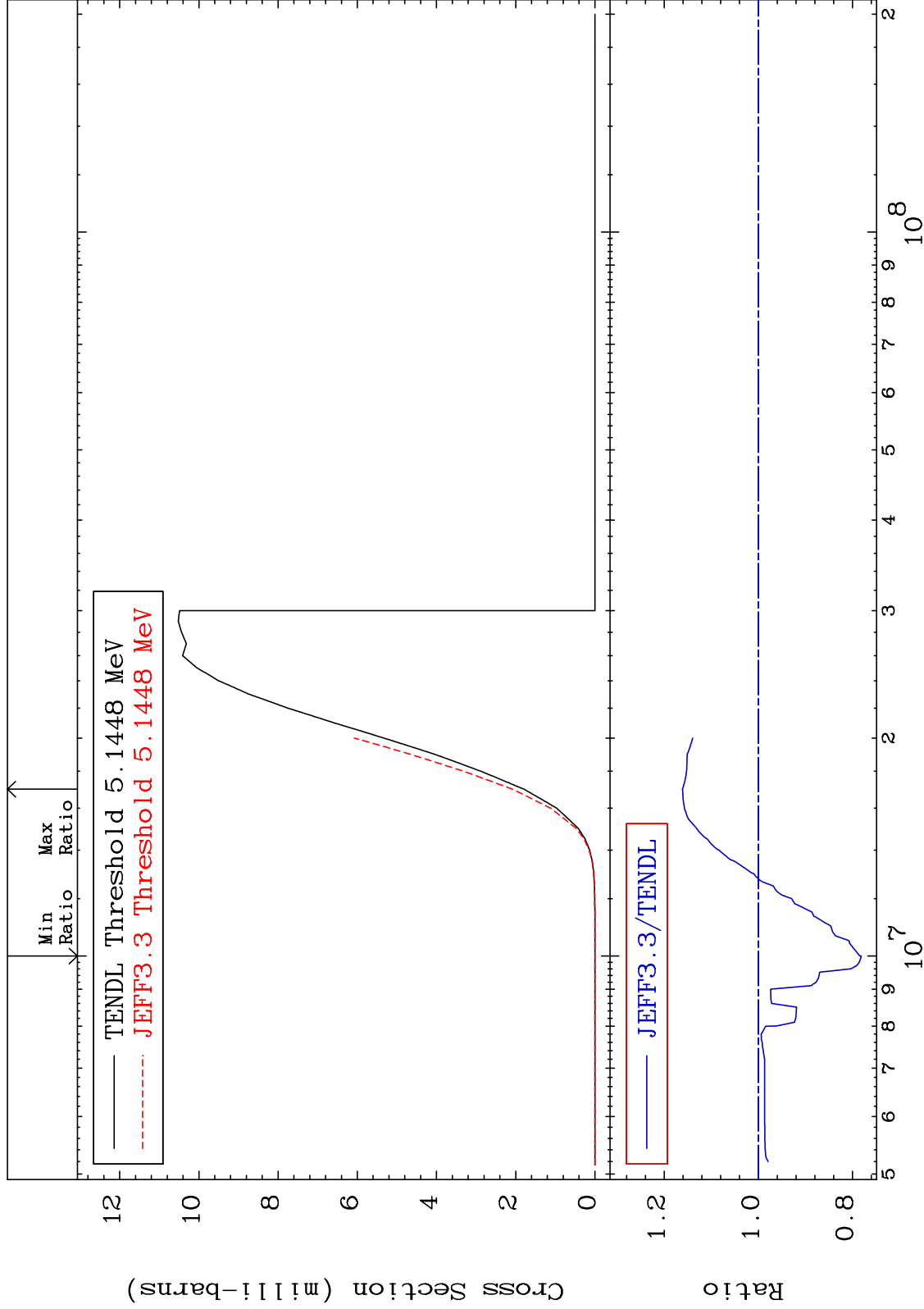
77

Incident Energy (eV)

72-Hf-178

MAT 7237

(n,d):71-Lu-177g 72-Hf-178
Radionuclide Production Cross Section -21.87 To 16.13 %



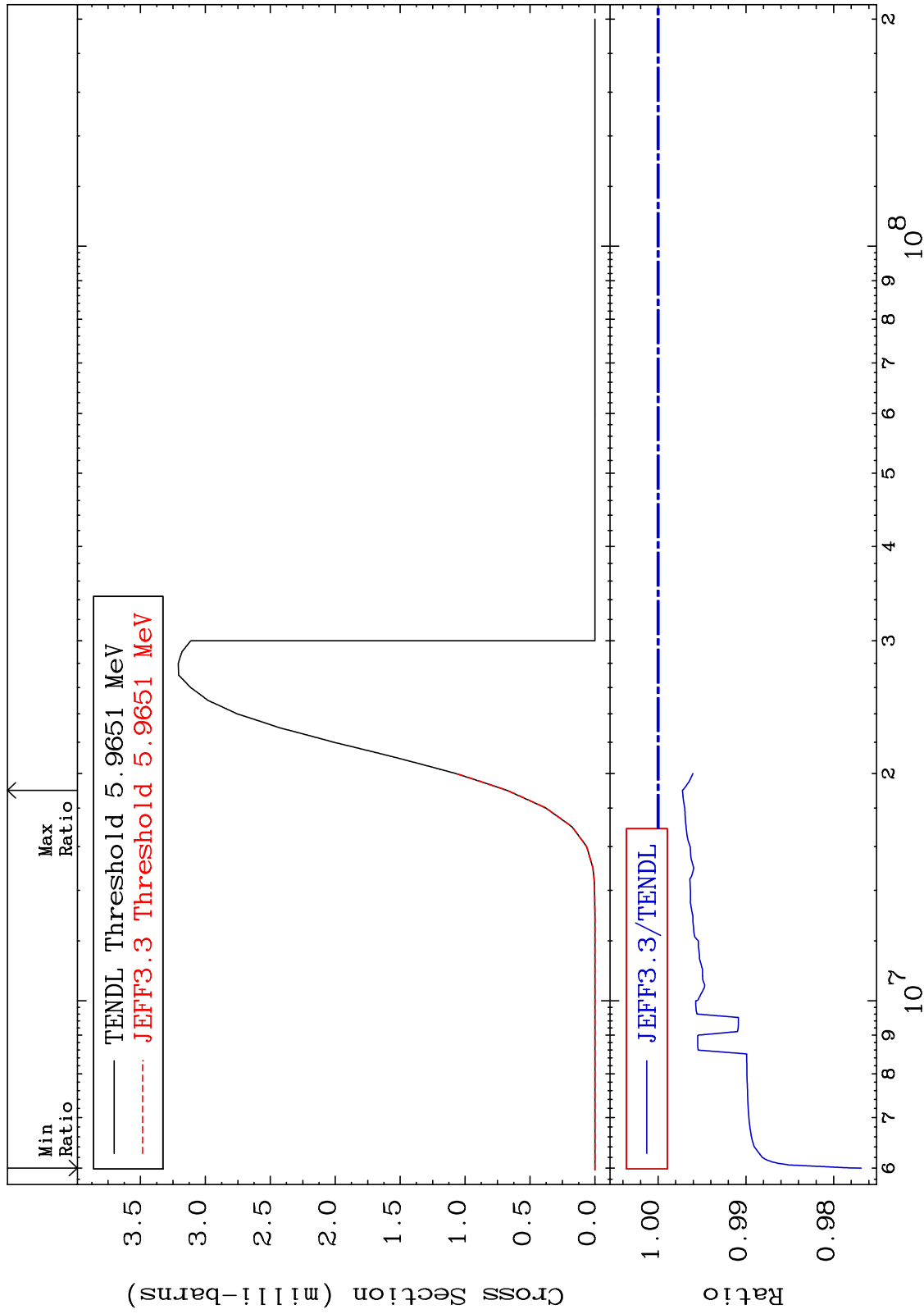
78

Incident Energy (eV)

72-Hf-178

MAT 7237

(n,t):71-Lu-176g 72-Hf-178
Radionuclide Production Cross Section -2.314 To -0.277%



79

Incident Energy (eV)

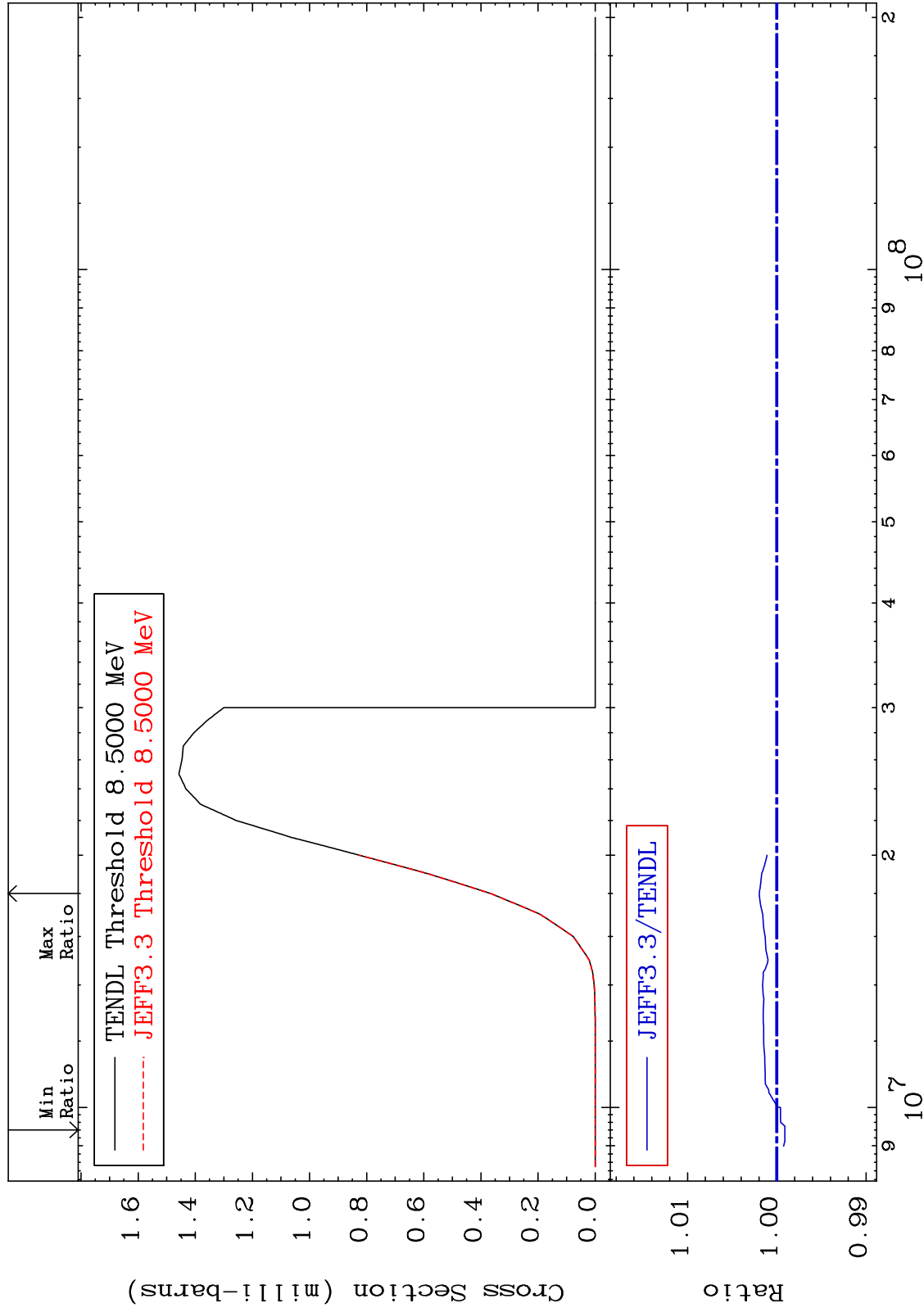
72-Hf-178

MAT 7237

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

72-Hf-178

Radionuclide Production Cross Section -0.090 To 0.198 %

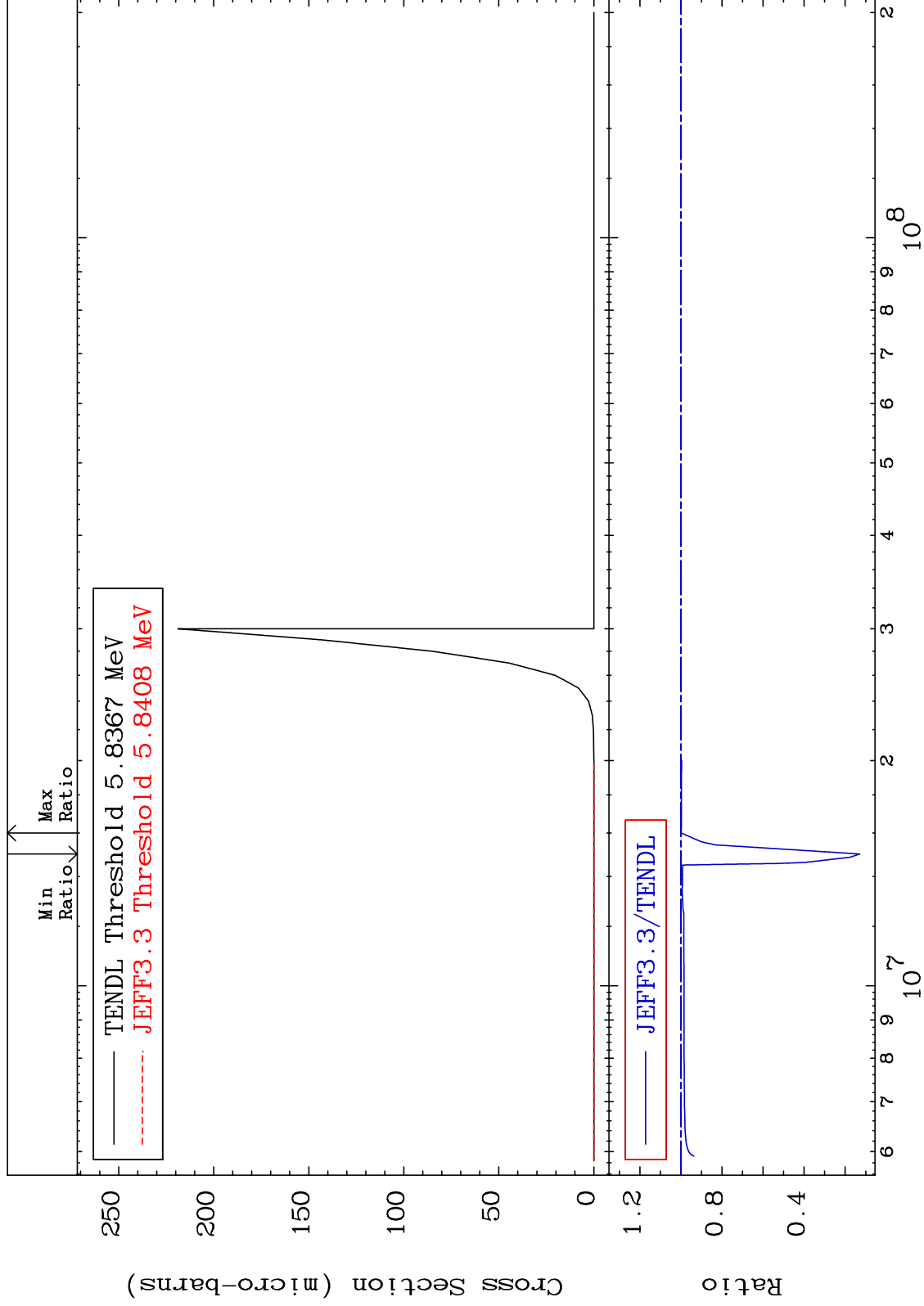


MAT 7237

(n, He-3) : 70-Yb-176g

72-Hf-178

Radionuclide Production Cross Section -87.09 To -0.128%



81

Incident Energy (eV)

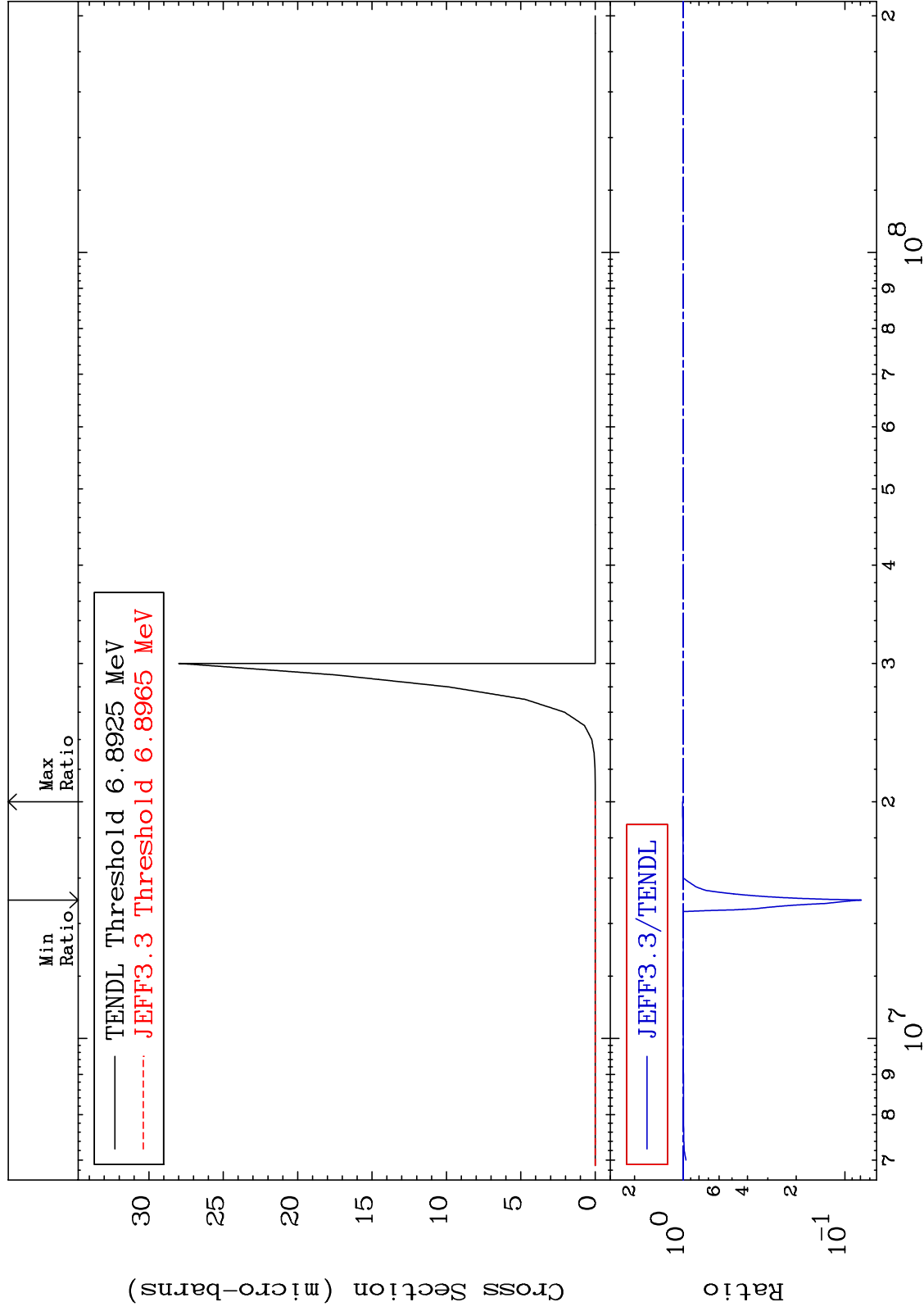
72-Hf-178

MAT 7237

(n,He-3):70-Yb-176m5

72-Hf-178

Radionuclide Production Cross Section -92.10 To 0.857 %



82

Incident Energy (eV)

72-Hf-178