

Program Complot
(Version 2021-1)

by

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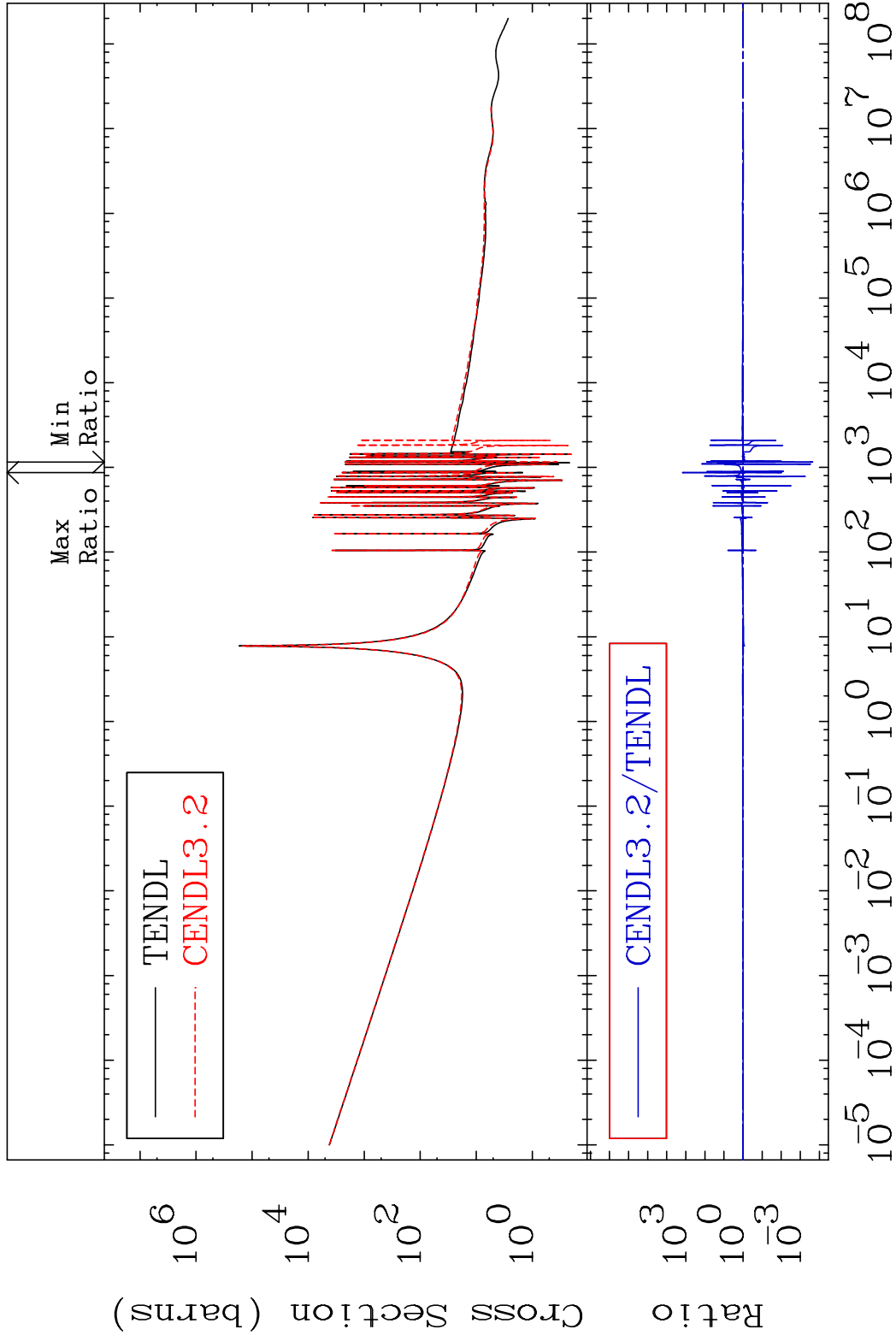
Press Mouse Button to Start

MAT 7237

Total

72-Hf-178

Cross Section -99.98 To 9999. %



1

Incident Energy (eV)

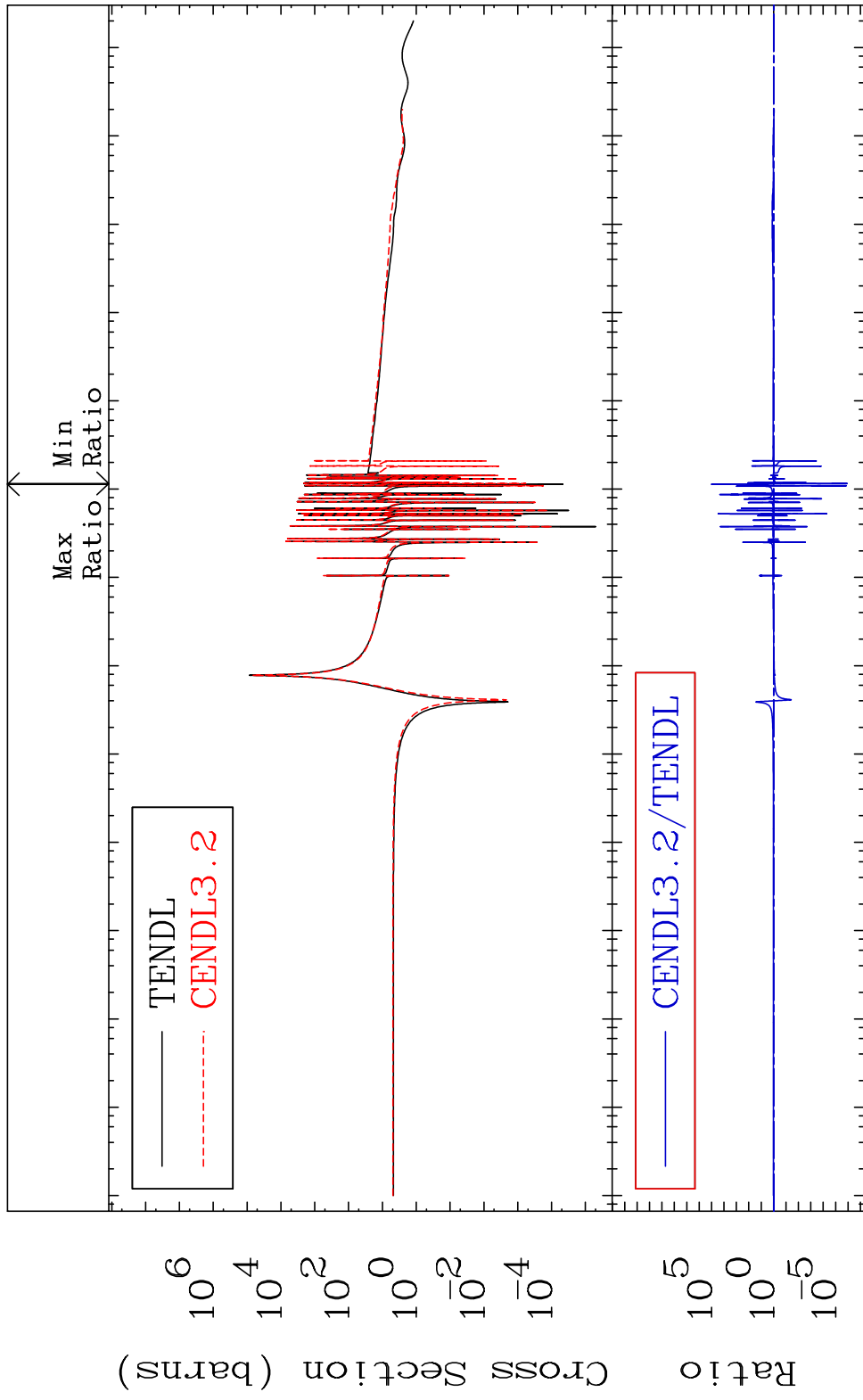
72-Hf-178

MAT 7237

Elastic

72-Hf-178

Cross Section -100.0 To 9999. %



2

Incident Energy (eV)

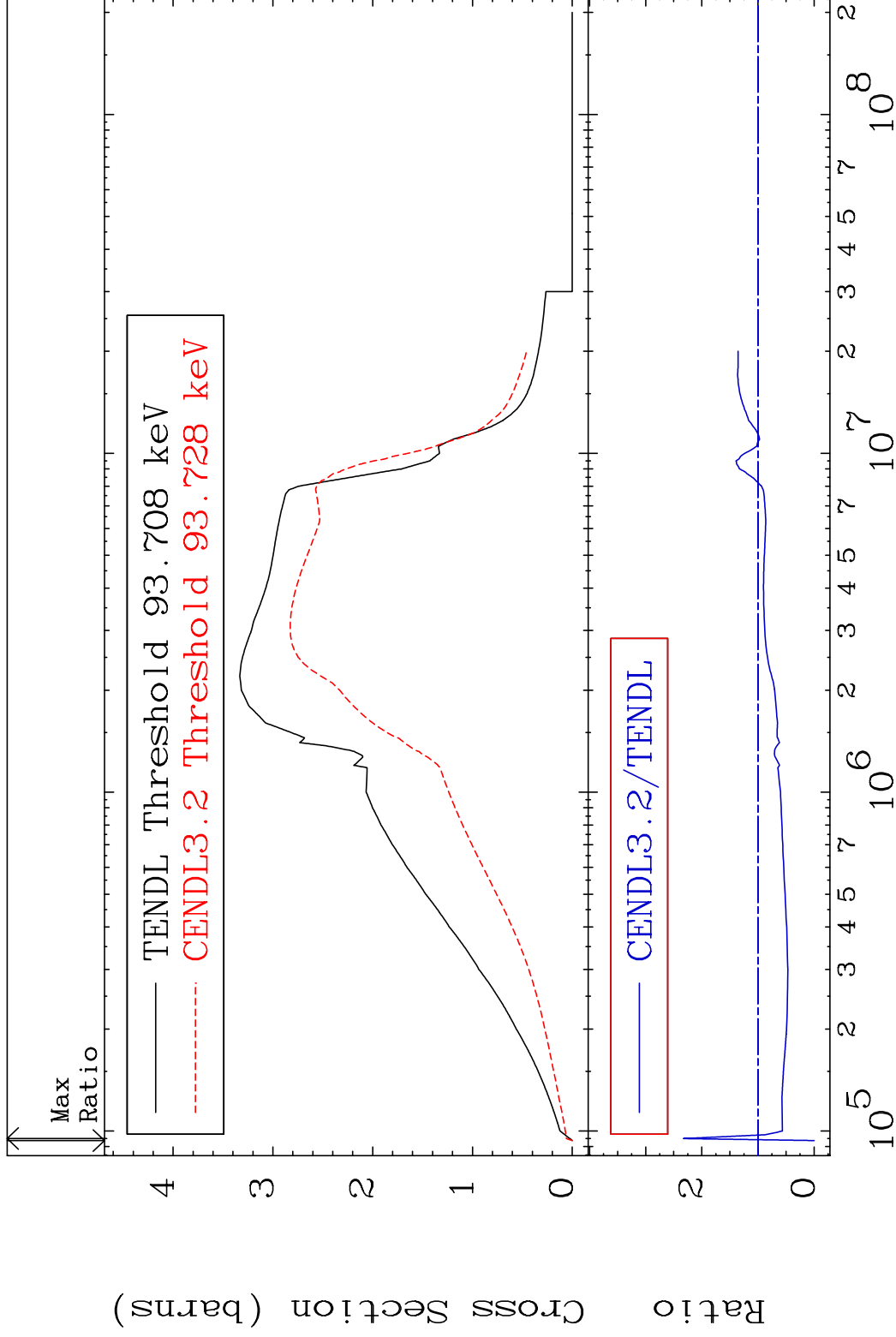
72-Hf-178

MAT 7237

Inelastic

72-Hf-178

Cross Section -100.0 To 132.3 %



3

Incident Energy (eV)

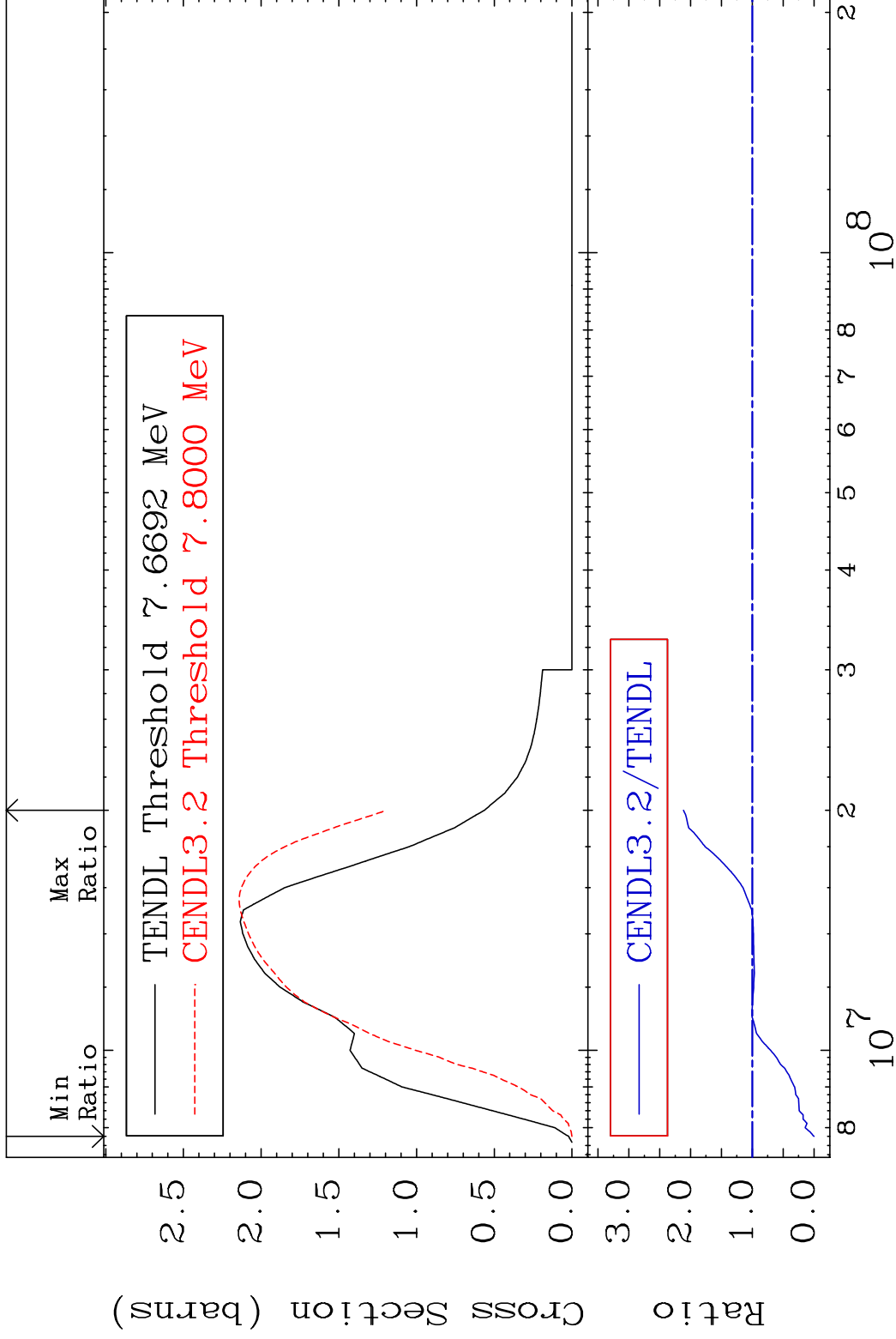
72-Hf-178

MAT 7237

(n,2n)

72-Hf-178

Cross Section -100.0 To 111.5 %



4

Incident Energy (eV)

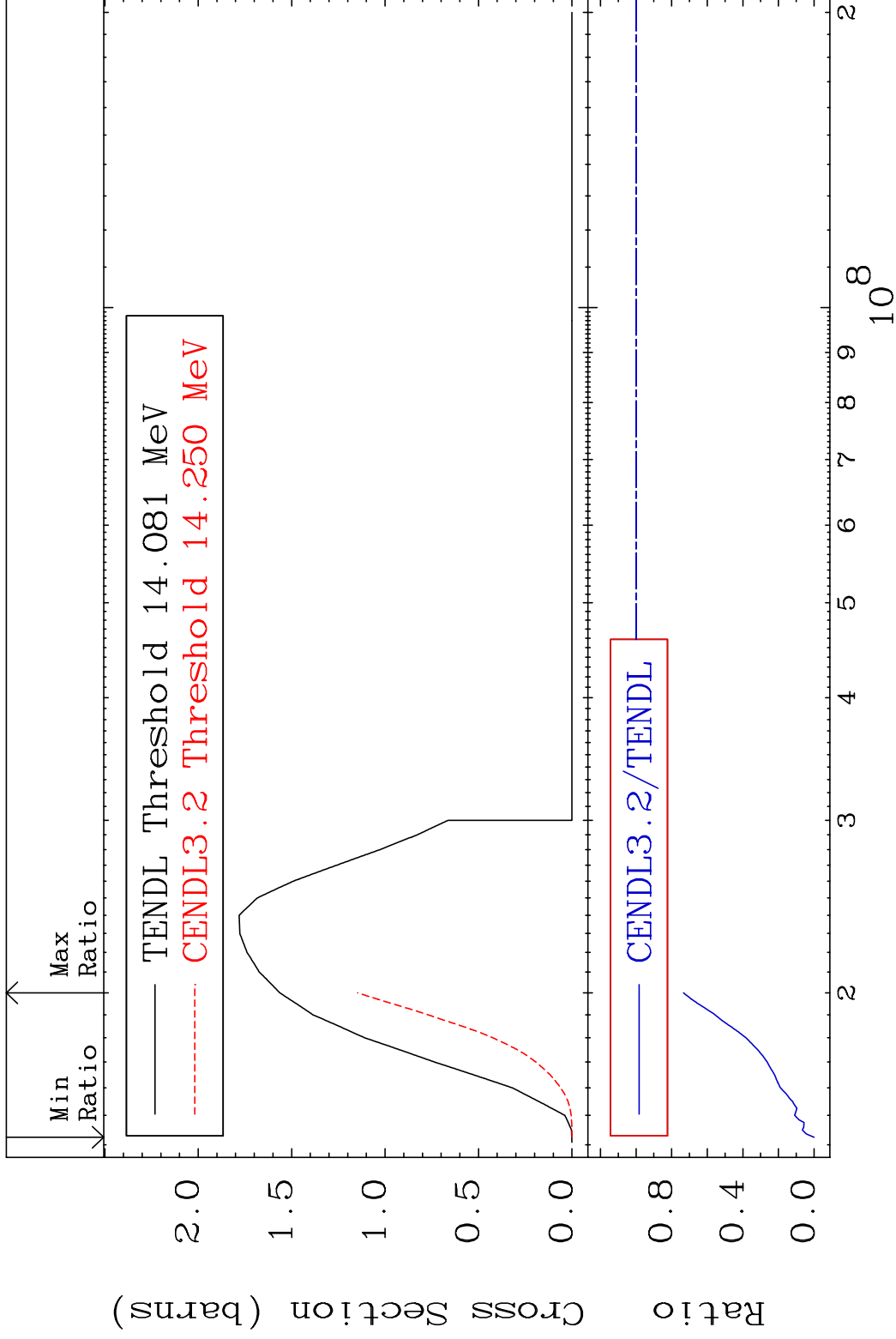
72-Hf-178

MAT 7237

(n,3n)

72-Hf-178

Cross Section -100.0 To -26.63%



5

Incident Energy (eV)

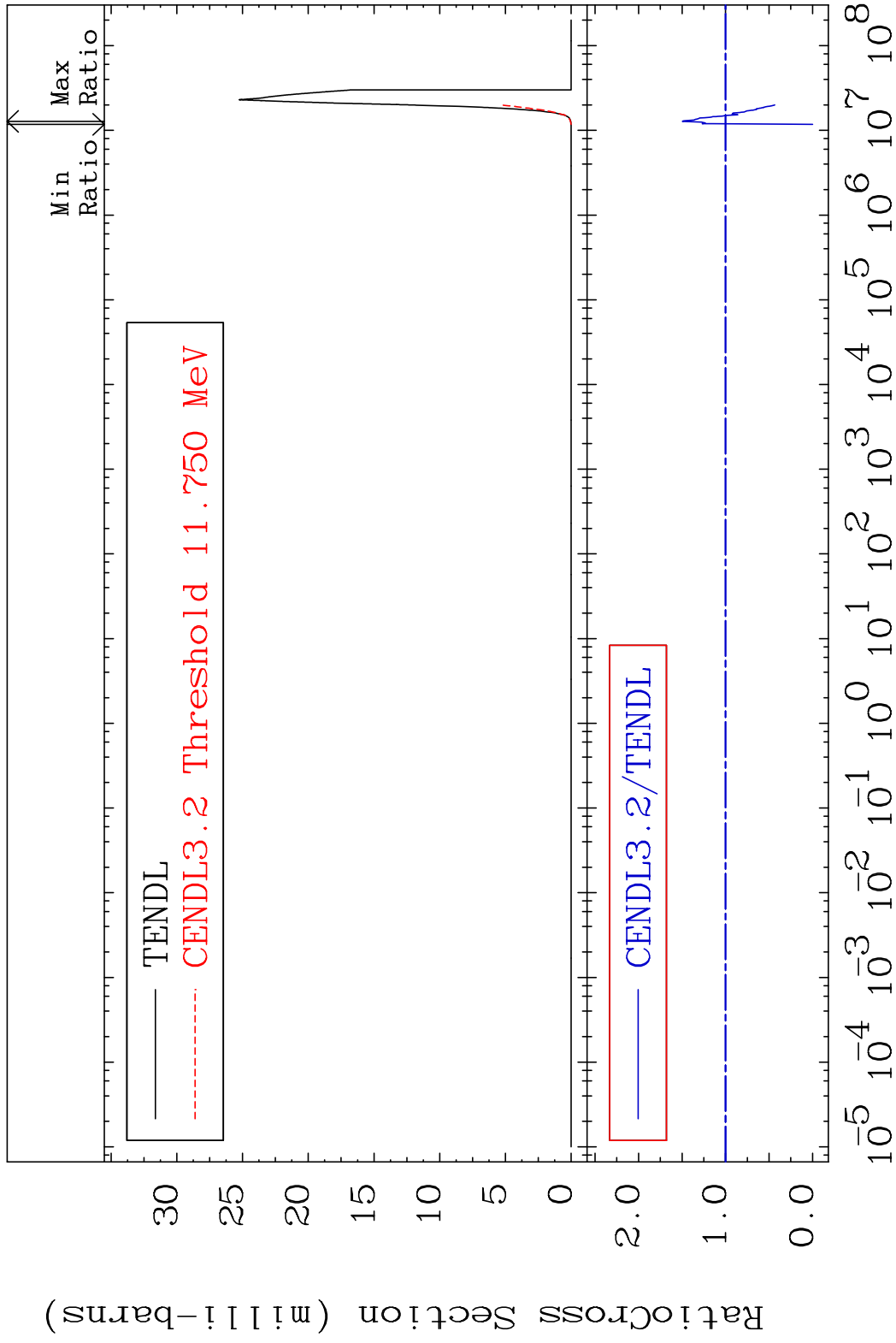
72-Hf-178

MAT 7237

(n, n') α

72-Hf-178

Cross Section -100.0 To 49.66 %



6

Incident Energy (eV)

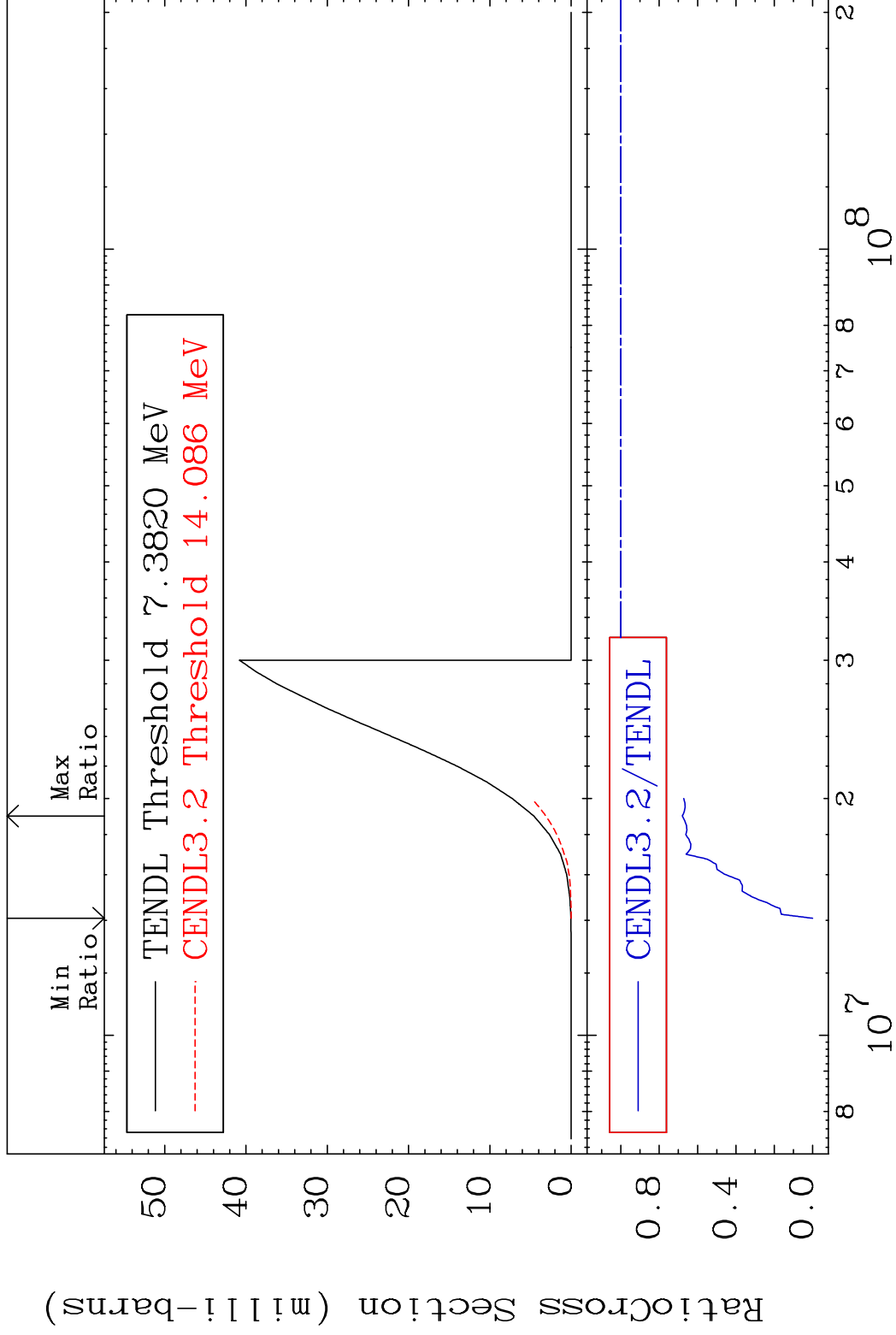
72-Hf-178

MAT 7237

(n, n') p

72-Hf-178

Cross Section -100.0 To -32.06%

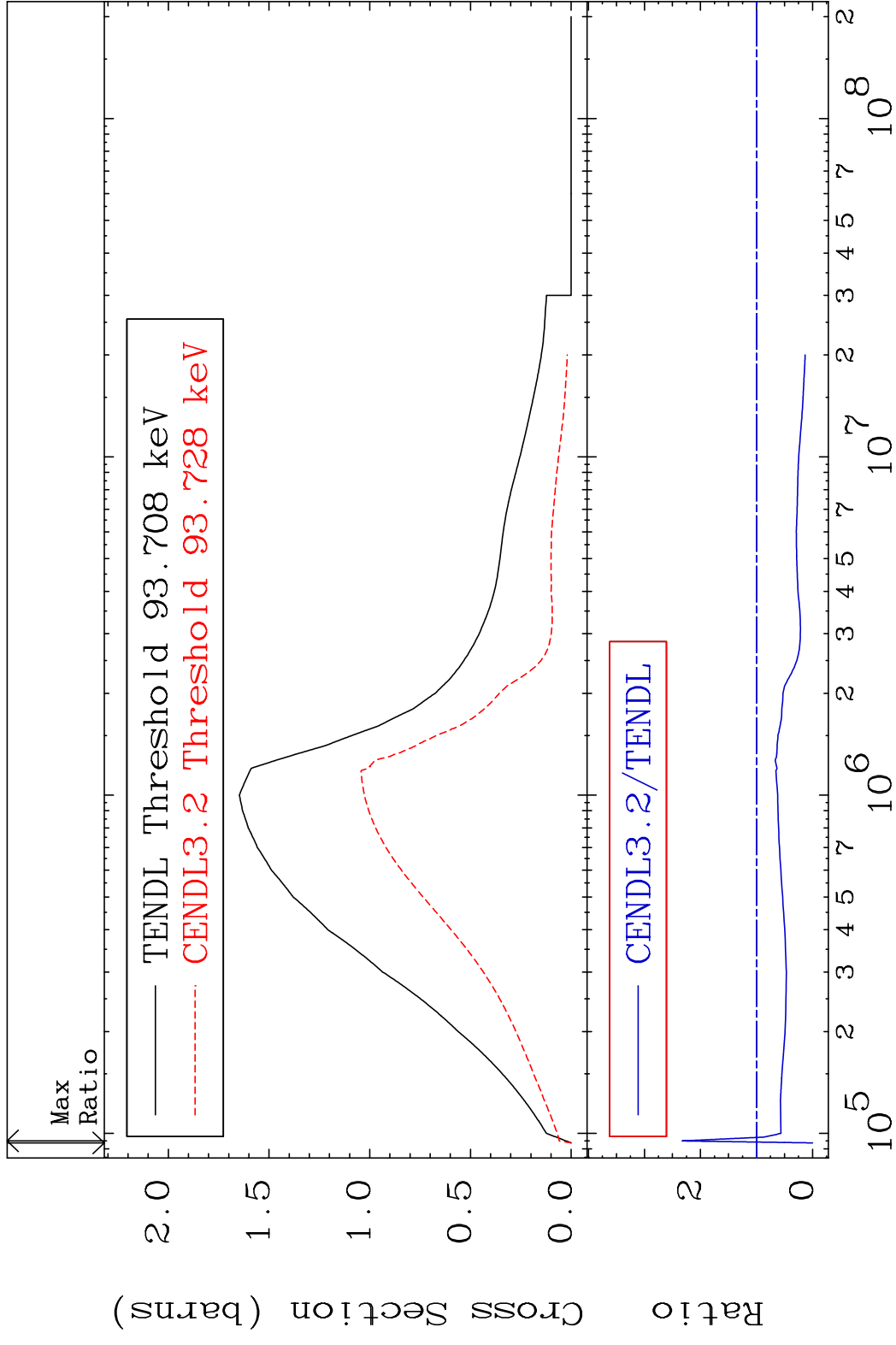


7

Incident Energy (eV)

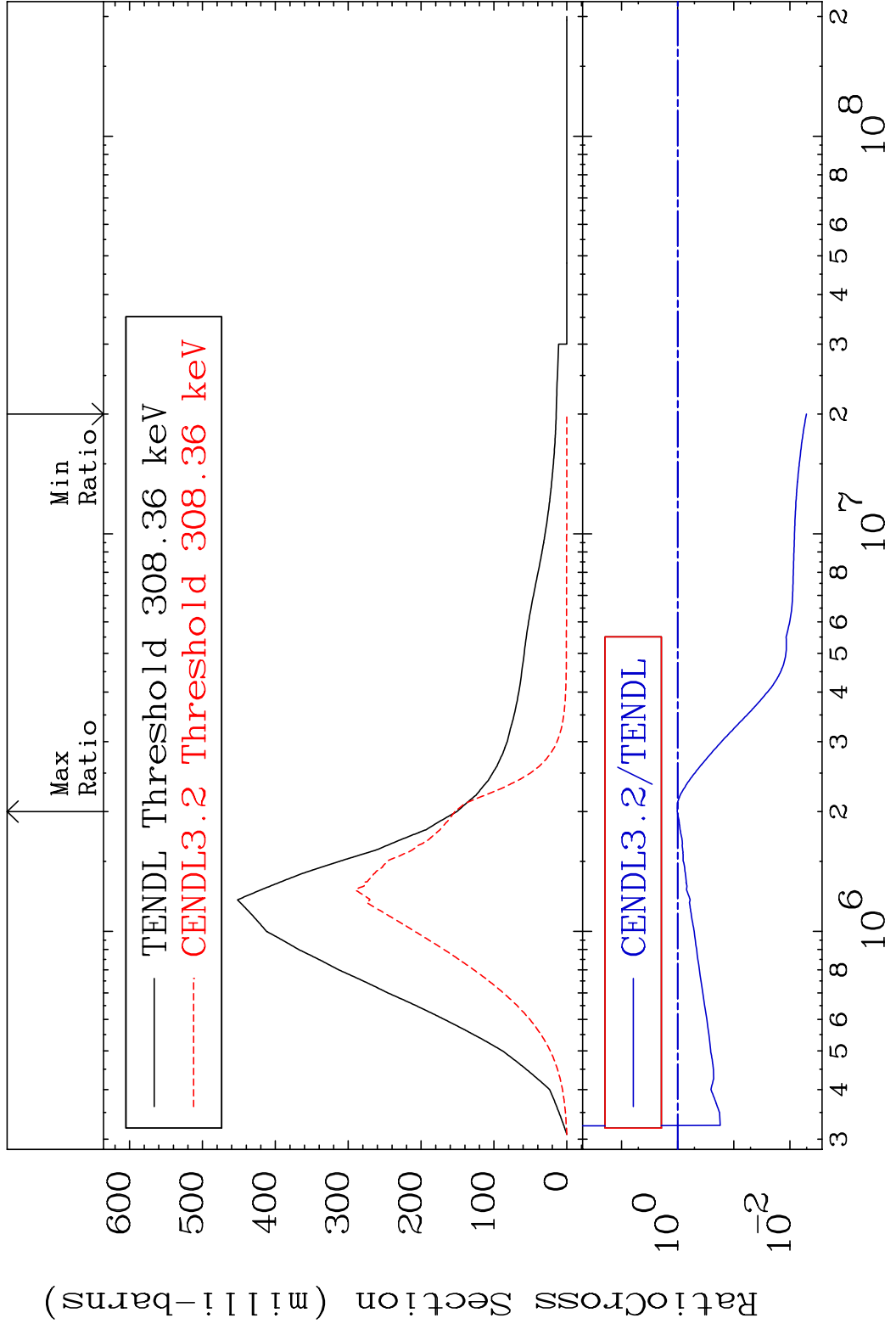
72-Hf-178

MAT 7237 MT= 51 (n, n') Level 72-Hf-178
 Cross Section -100.0 To 132.3 %

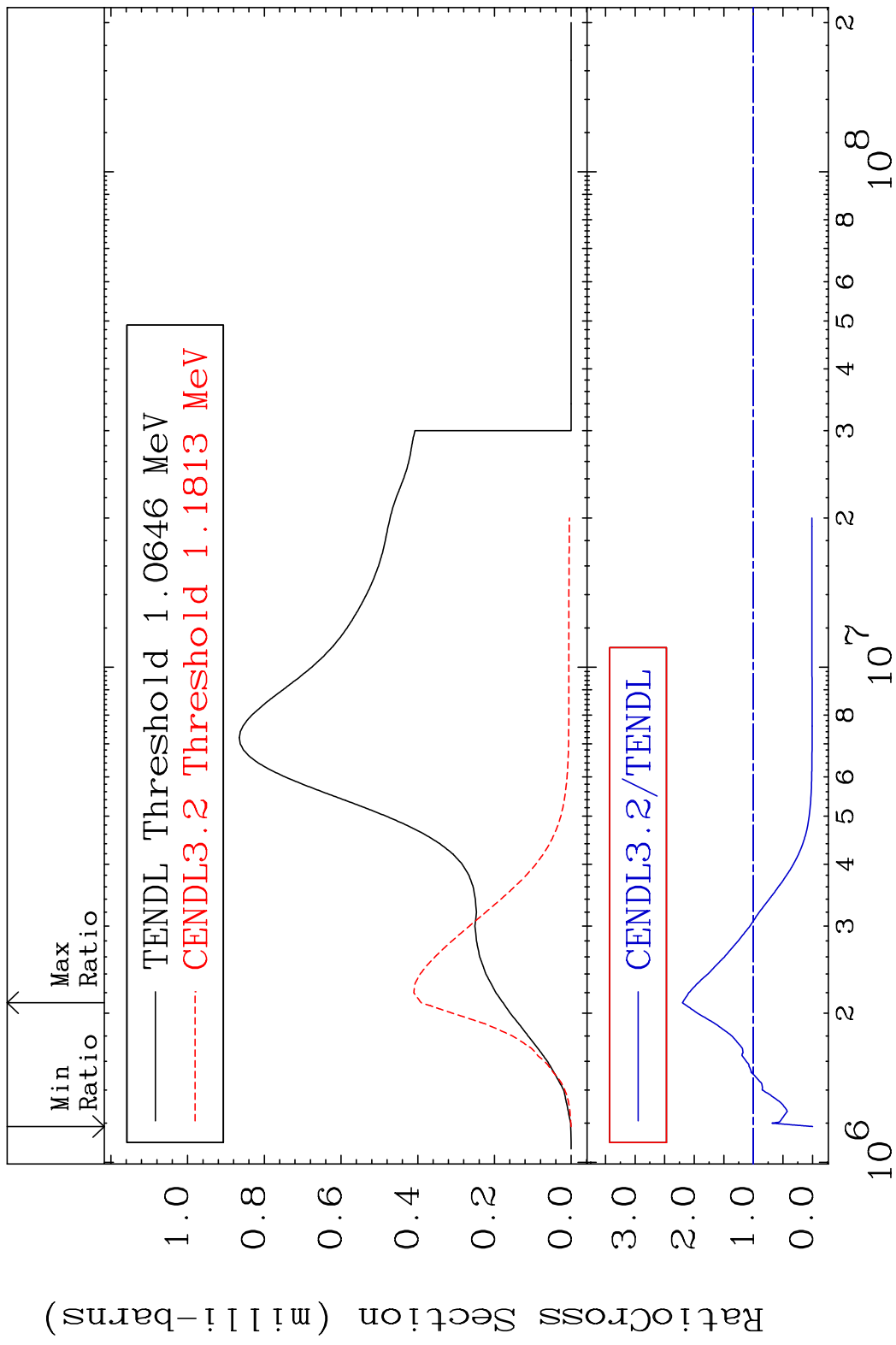


8 Incident Energy (eV) 72-Hf-178

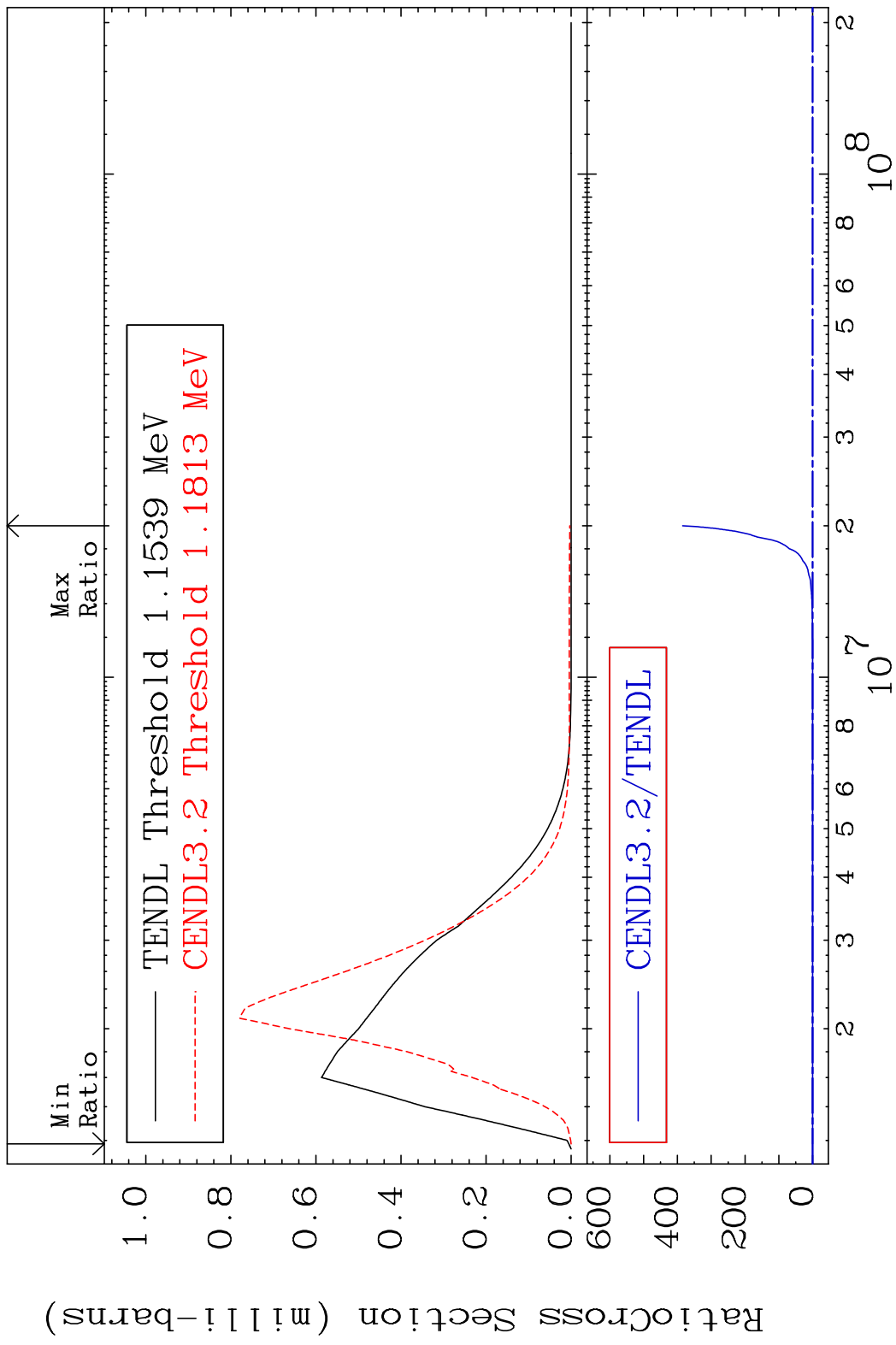
MAT 7237 MT= 52 (n,n') Level 72-Hf-178
 Cross Section -99.49 To 1.725 %



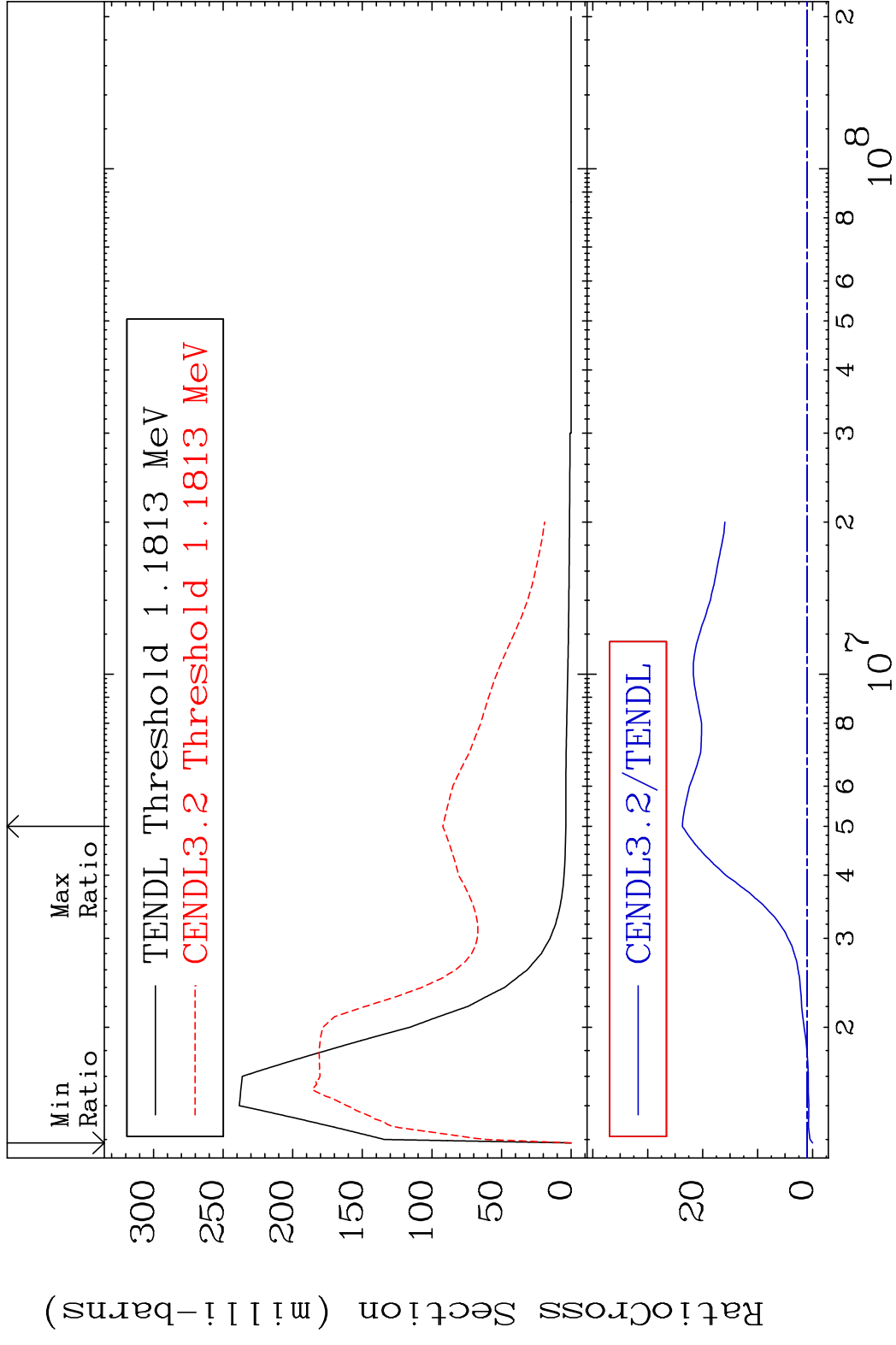
MAT 7237 MT= 54 (n, n') Level 72-Hf-178
 Cross Section -100.0 To 120.1 %



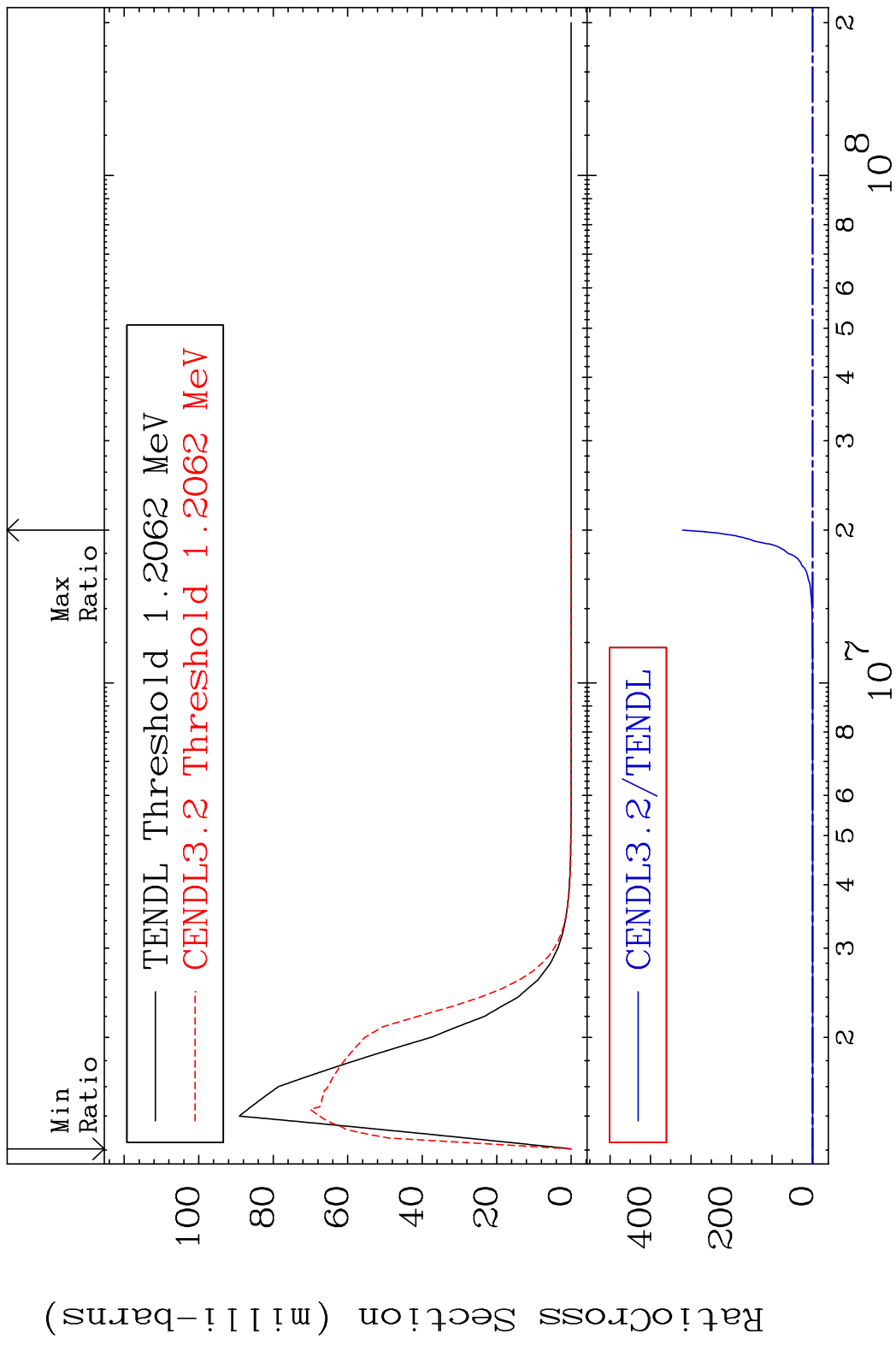
MAT 7237 MT= 55 (n, n') Level 72-Hf-178
 Cross Section -100.0 To 9999. %



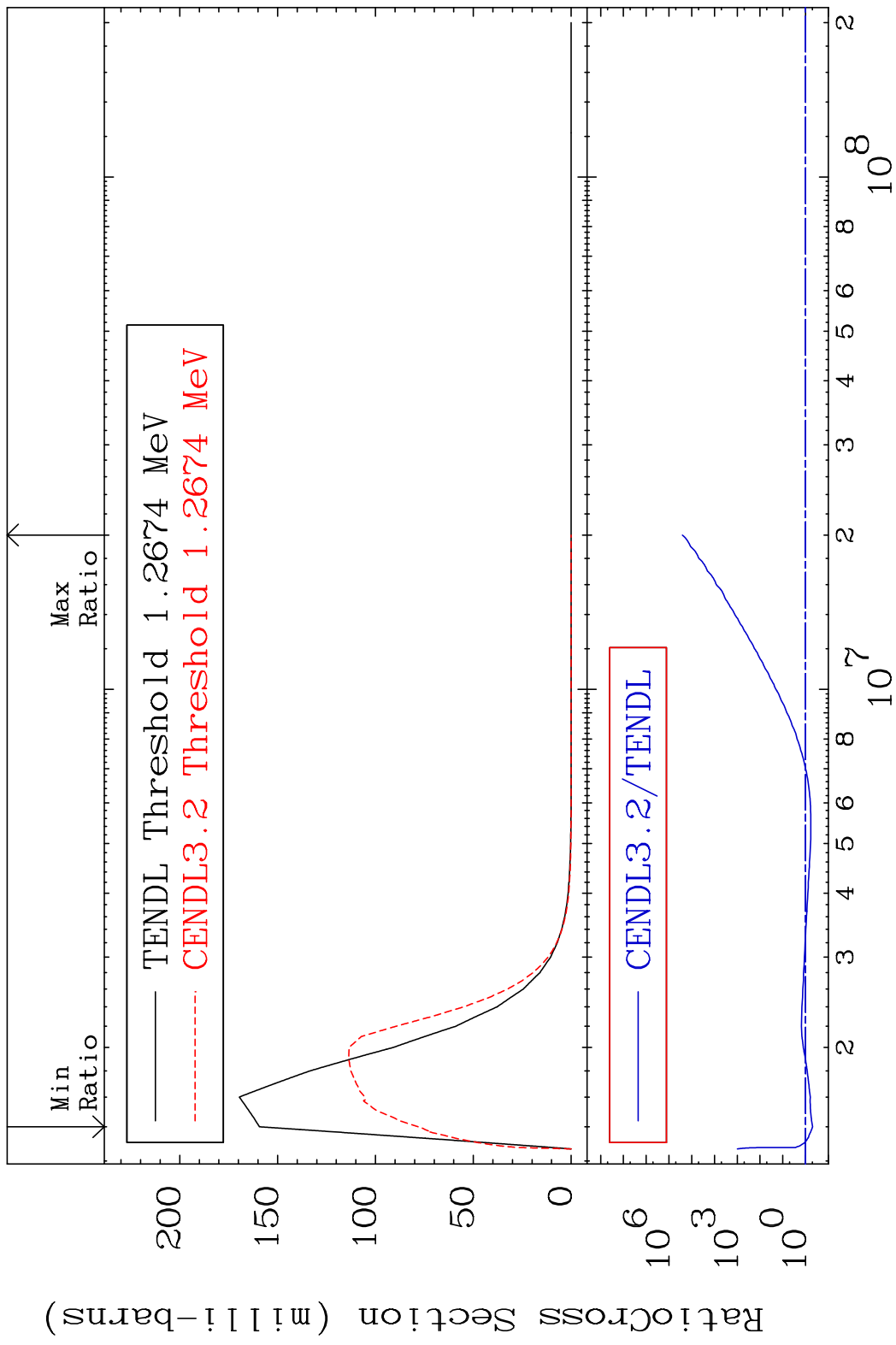
MAT 7237 MT= 56 (n,n') Level 72-Hf-178
 Cross Section -100.0 To 2268. %



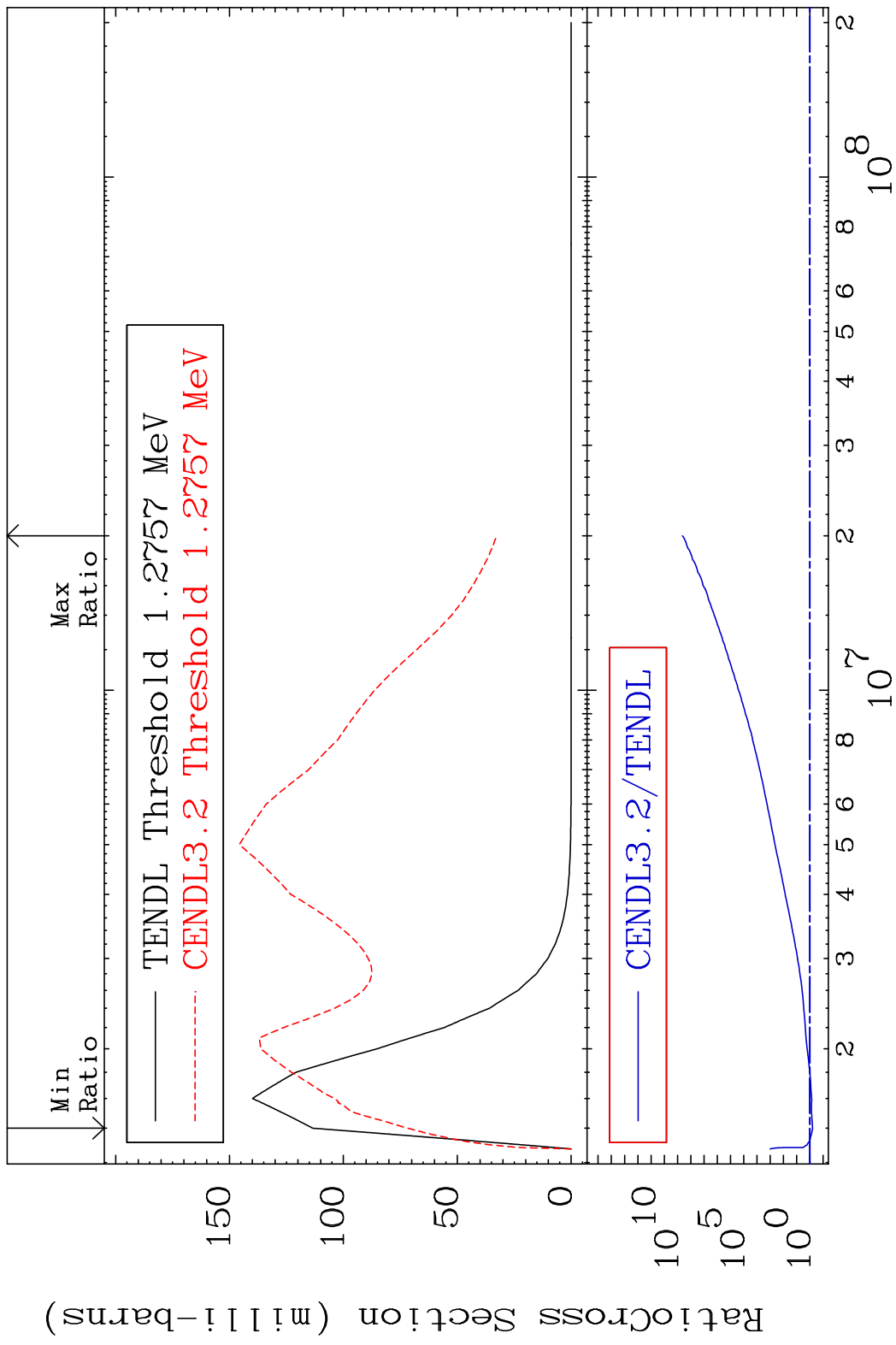
MAT 7237 MT= 57 (n, n') Level 72-Hf-178
 Cross Section -100.0 To 9999. %



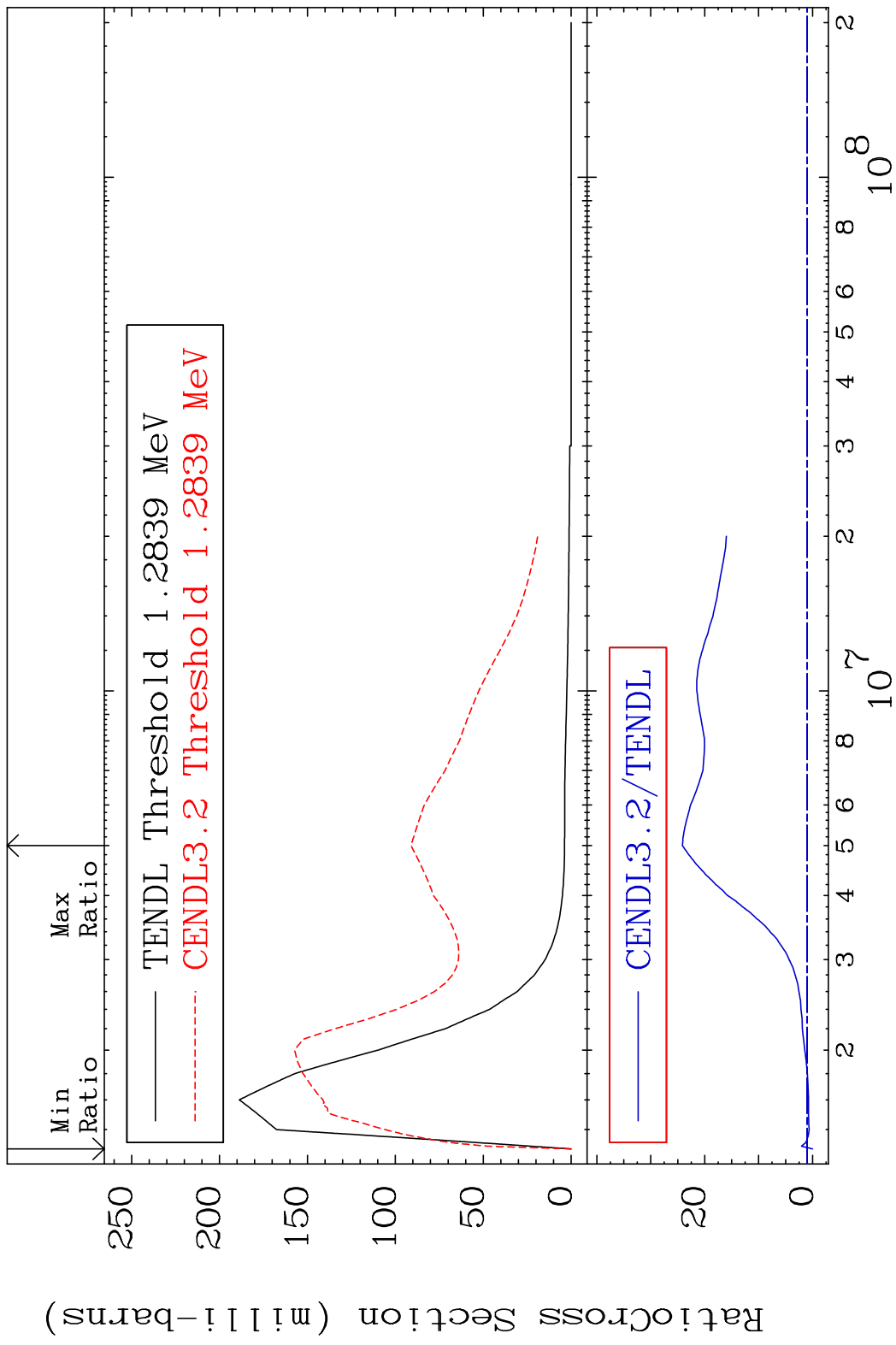
MAT 7237 MT= 58 (n, n') Level 72-Hf-178
 Cross Section -50.86 To 9999. %



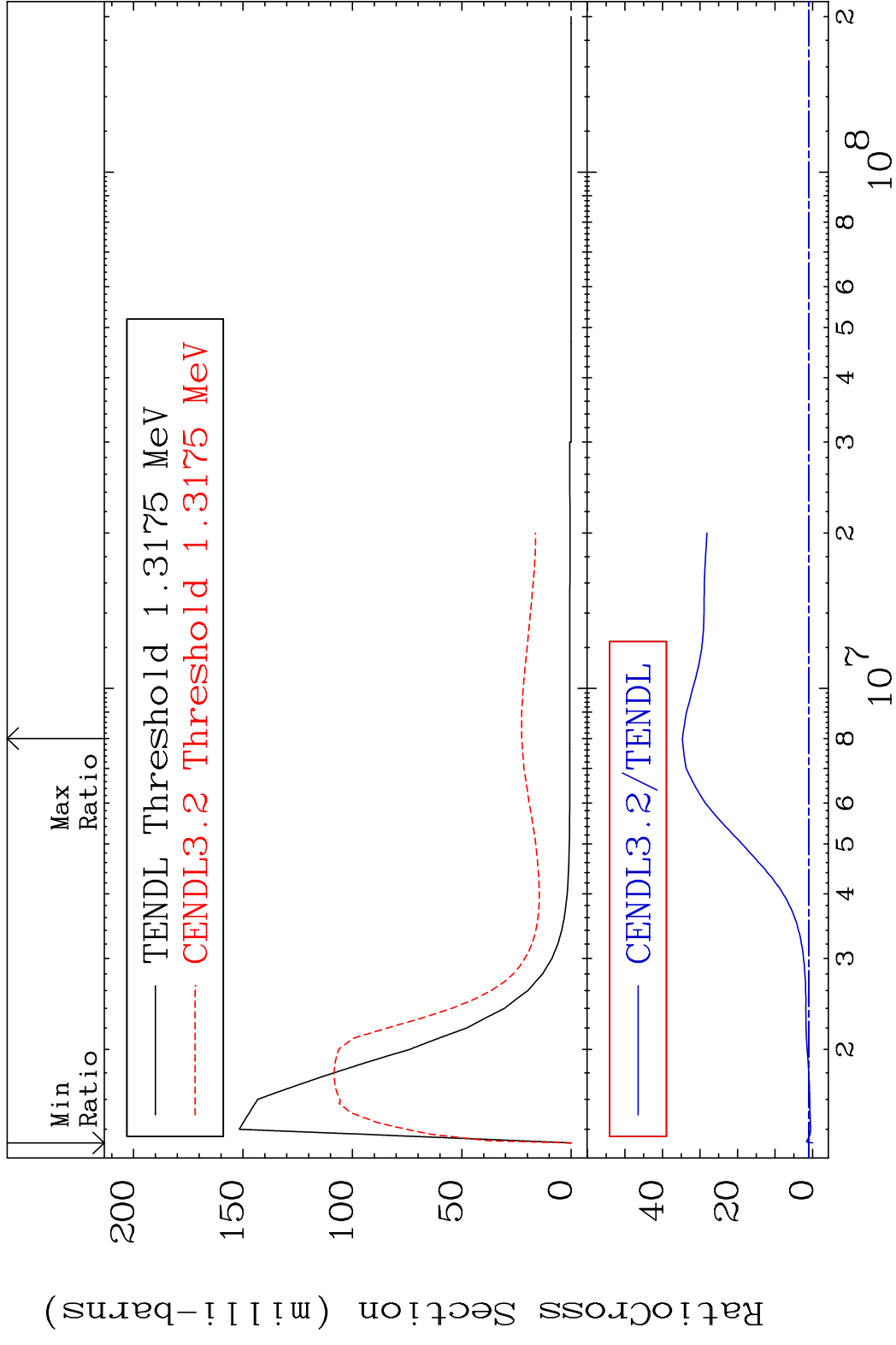
MAT 7237 MT= 59 (n, n') Level 72-Hf-178
 Cross Section -36.85 To 9999. %



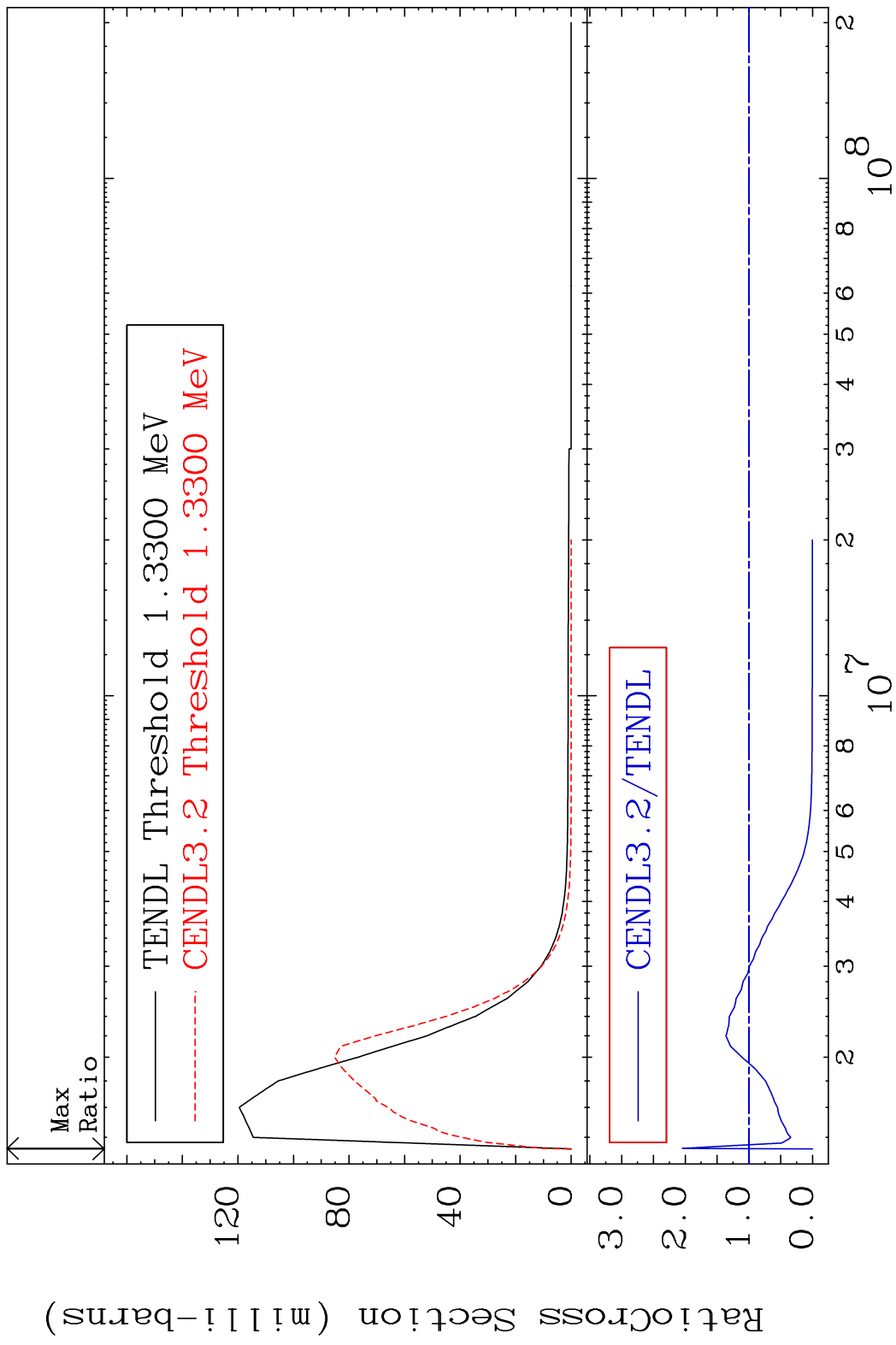
MAT 7237 MT= 60 (n, n') Level 72-Hf-178
 Cross Section -100.0 To 2314. %



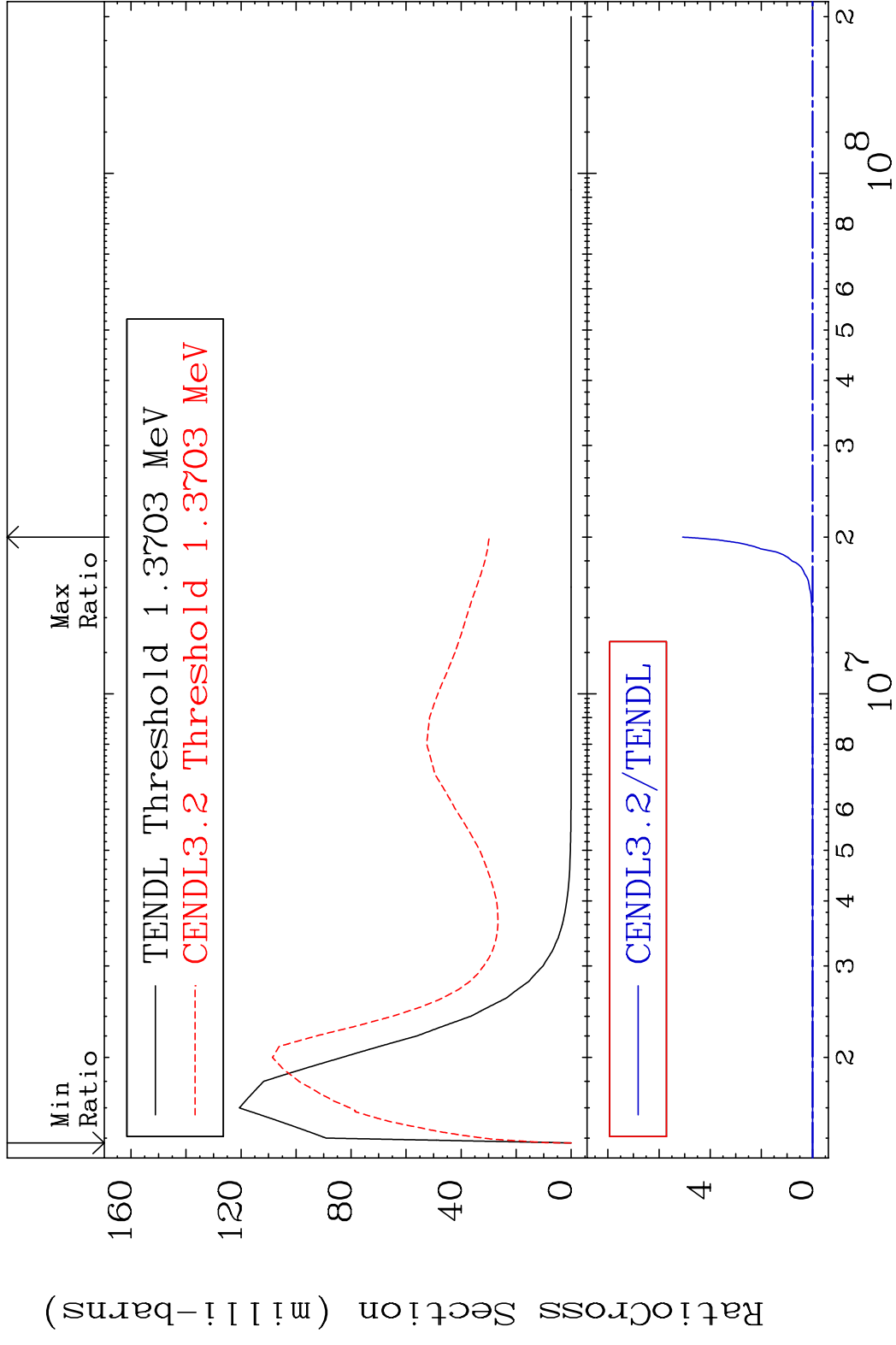
MAT 7237 MT= 61 (n,n') Level 72-Hf-178
 Cross Section -100.0 To 3370. %



MAT 7237 MT= 62 (n, n') Level 72-Hf-178
 Cross Section -100.0 To 104.6 %

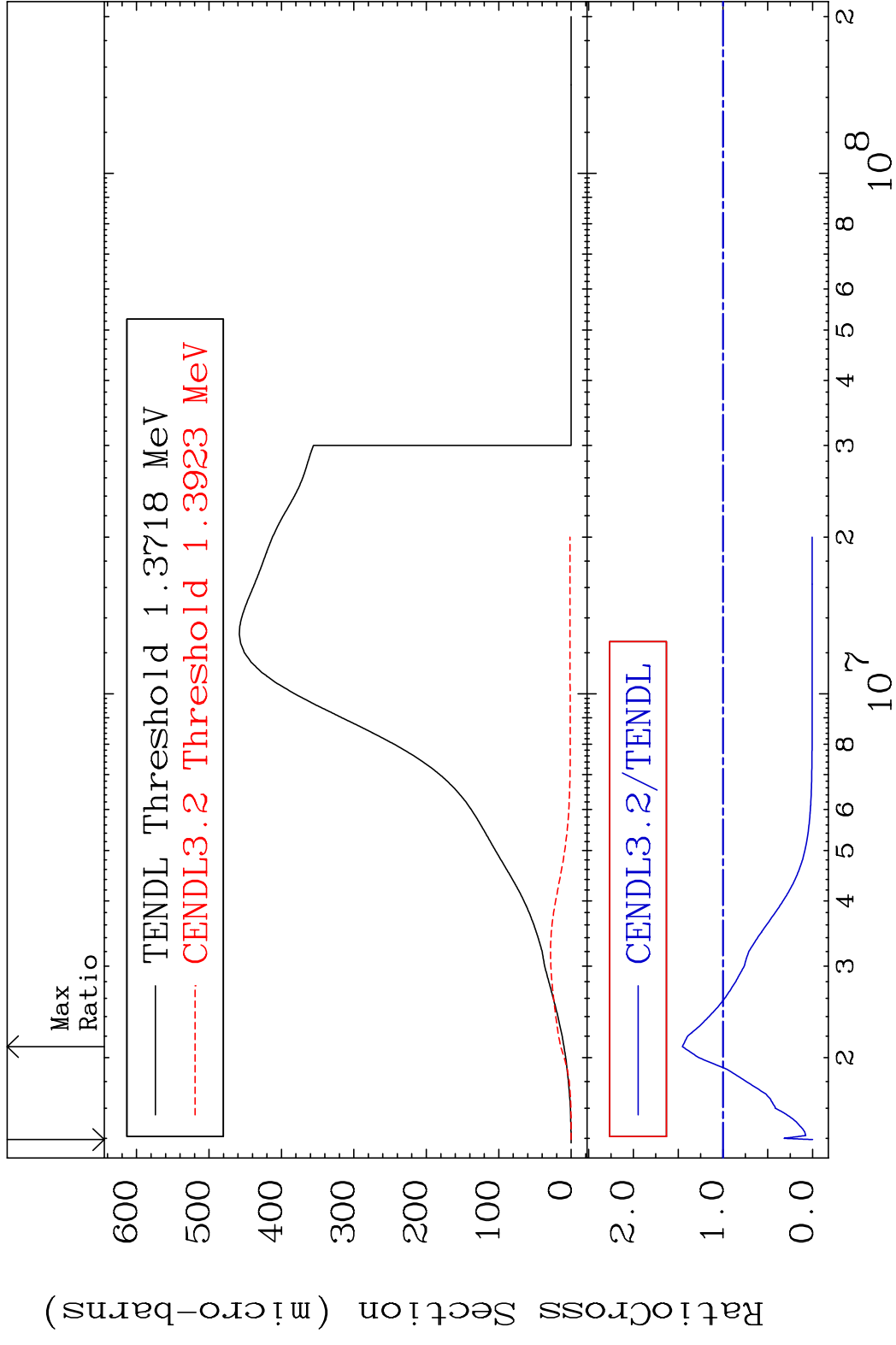


MAT 7237 MT= 63 (n, n') Level 72-Hf-178
 Cross Section -100.0 To 9999. %

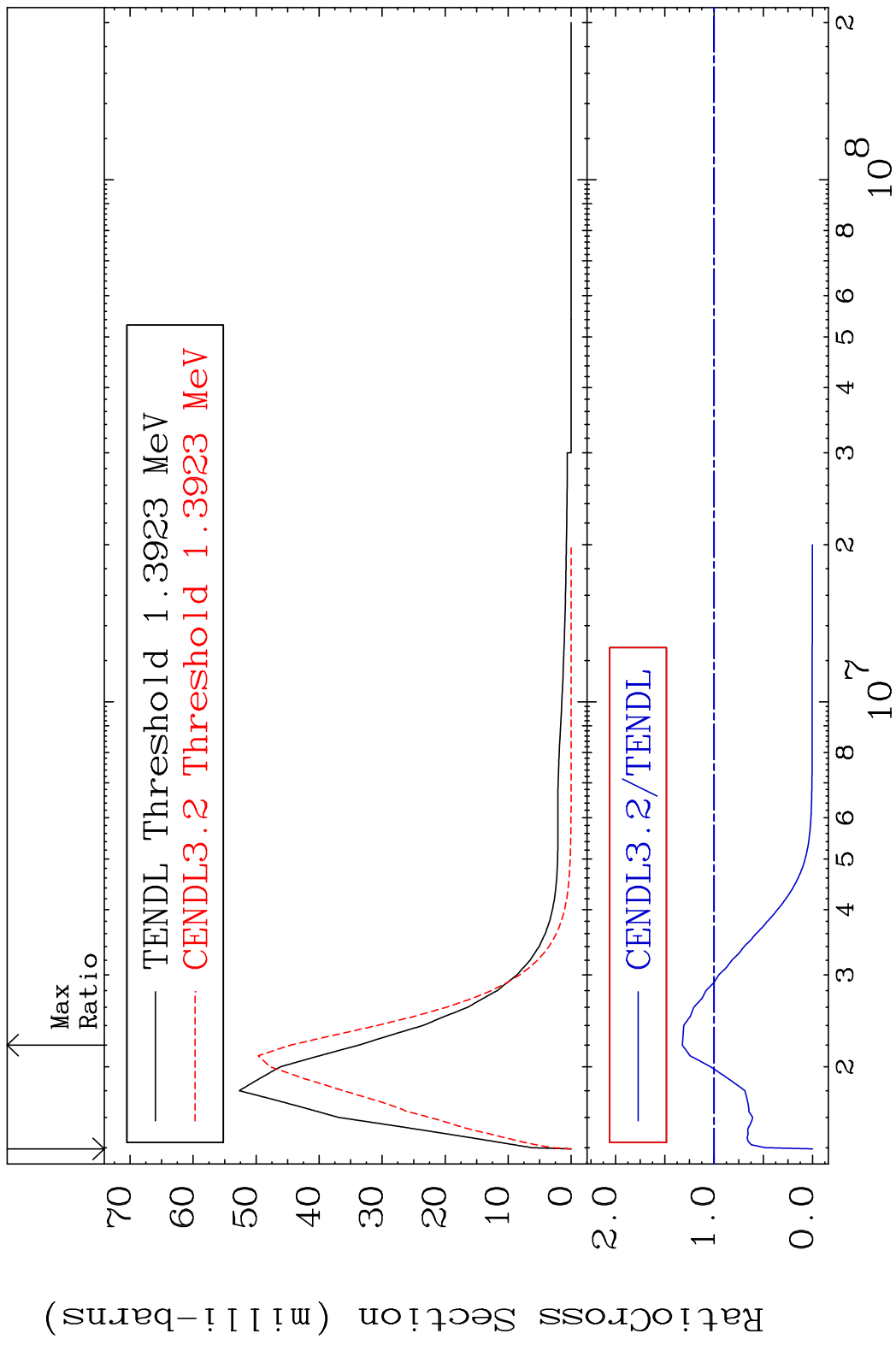


20 Incident Energy (eV) 72-Hf-178

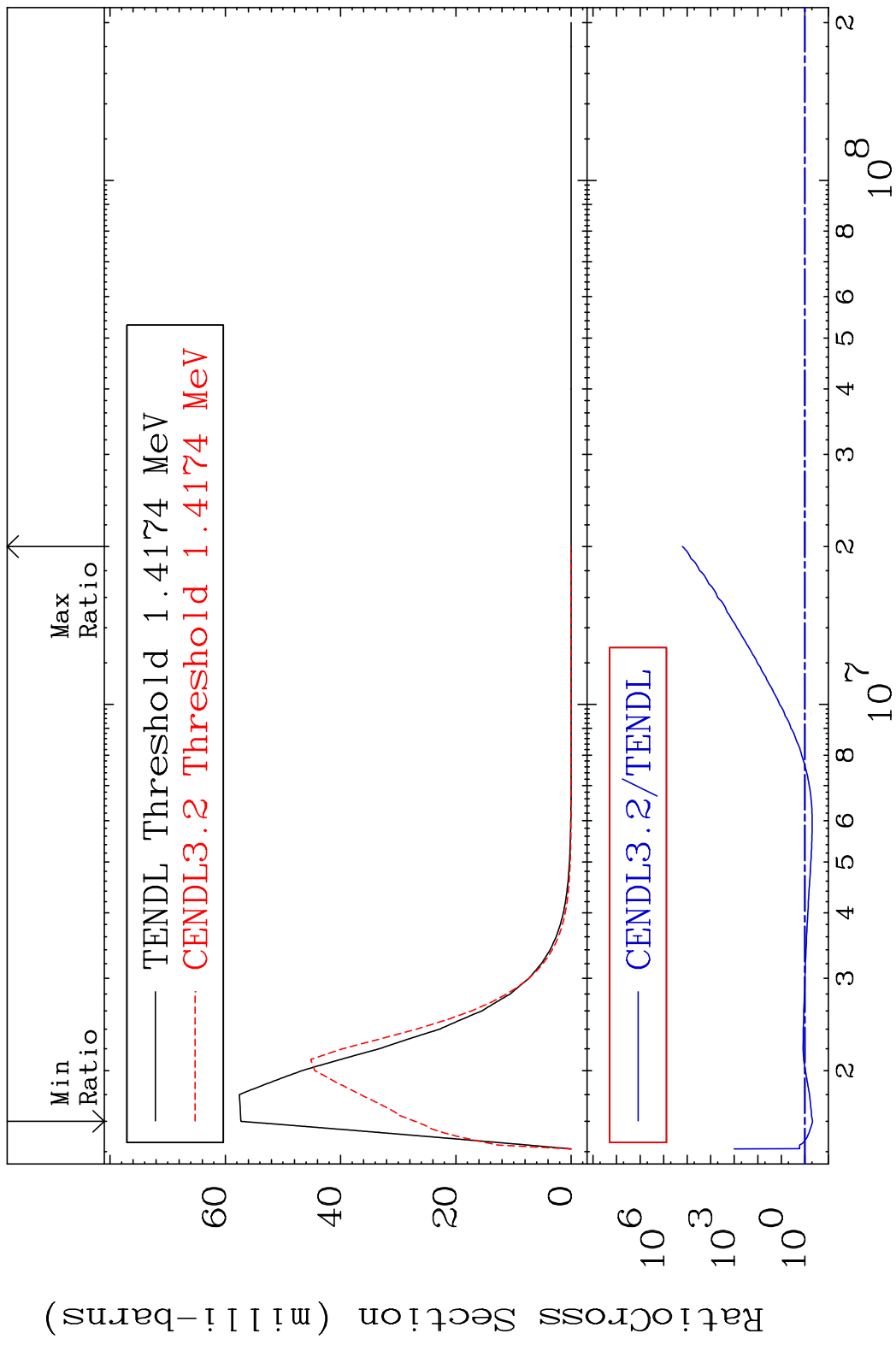
MAT 7237 MT= 64 (n, n') Level 72-Hf-178
 Cross Section -100.0 To 45.37 %



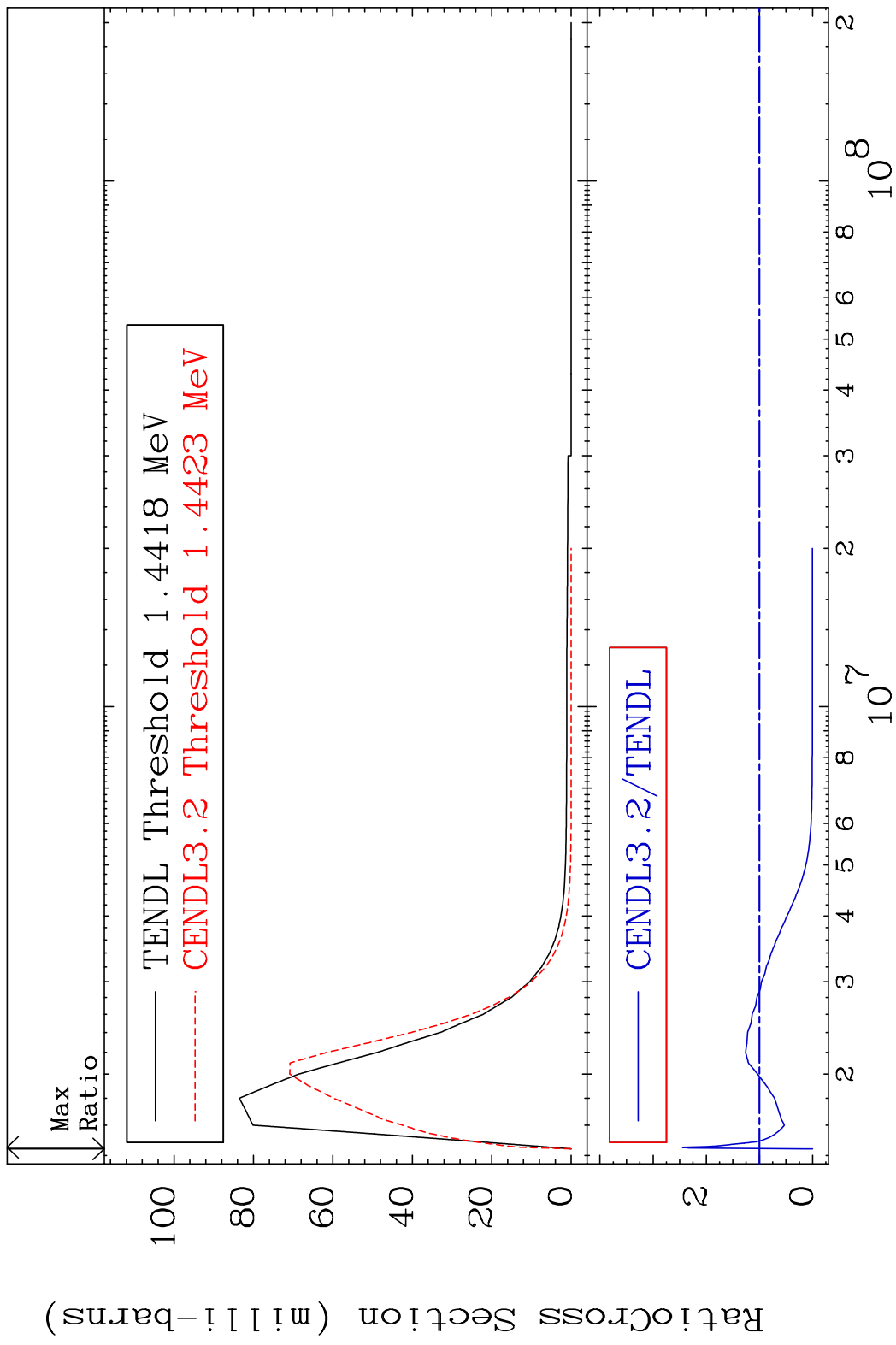
MAT 7237 MT= 65 (n,n') Level 72-Hf-178
 Cross Section -100.0 To 32.18 %



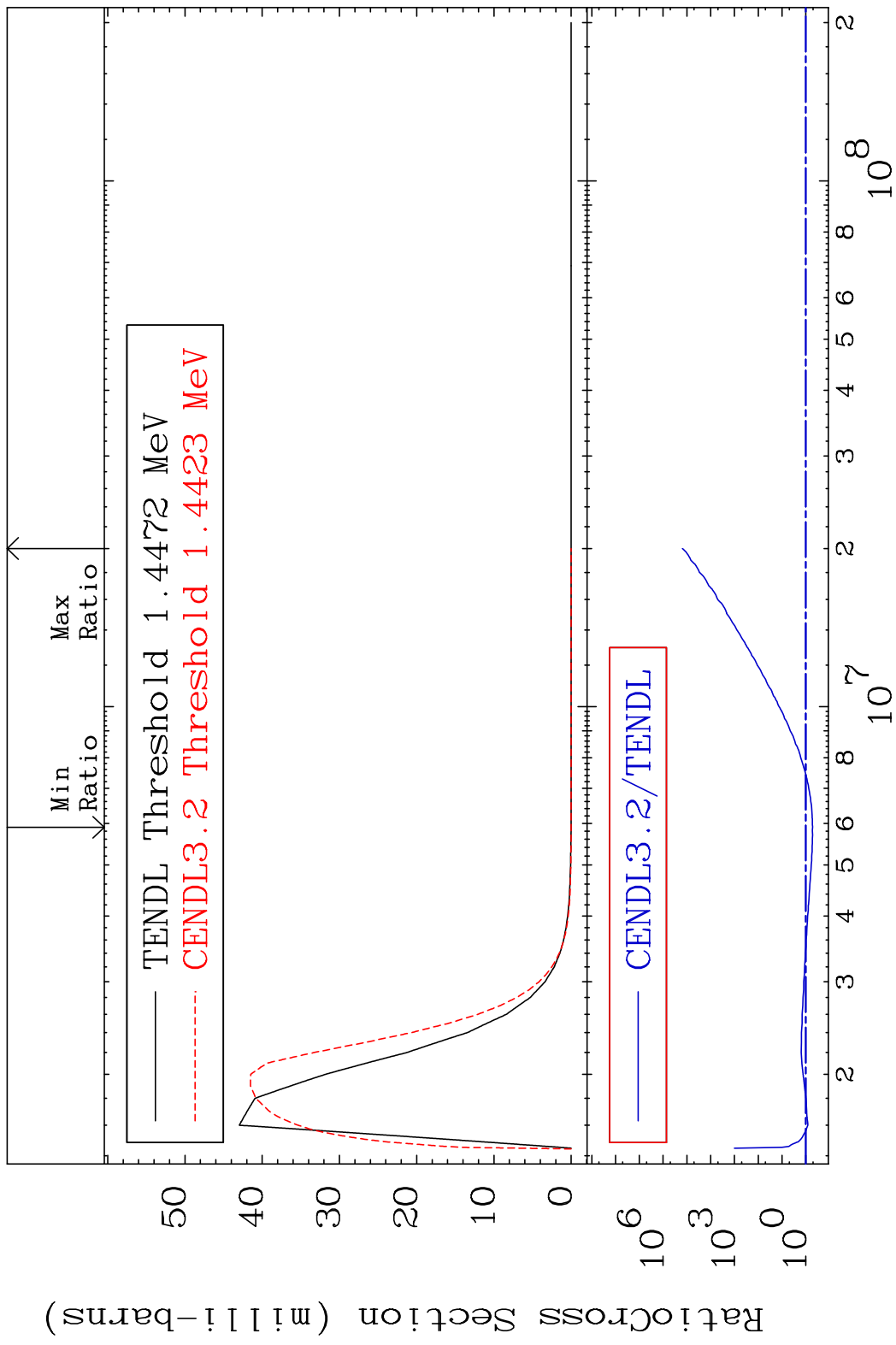
MAT 7237 MT= 66 (n, n') Level 72-Hf-178
 Cross Section -52.75 To 9999. %



MAT 7237 MT= 67 (n, n') Level 72-Hf-178
 Cross Section -100.0 To 144.9 %



MAT 7237 MT= 68 (n,n') Level 72-Hf-178
 Cross Section -47.61 To 9999. %

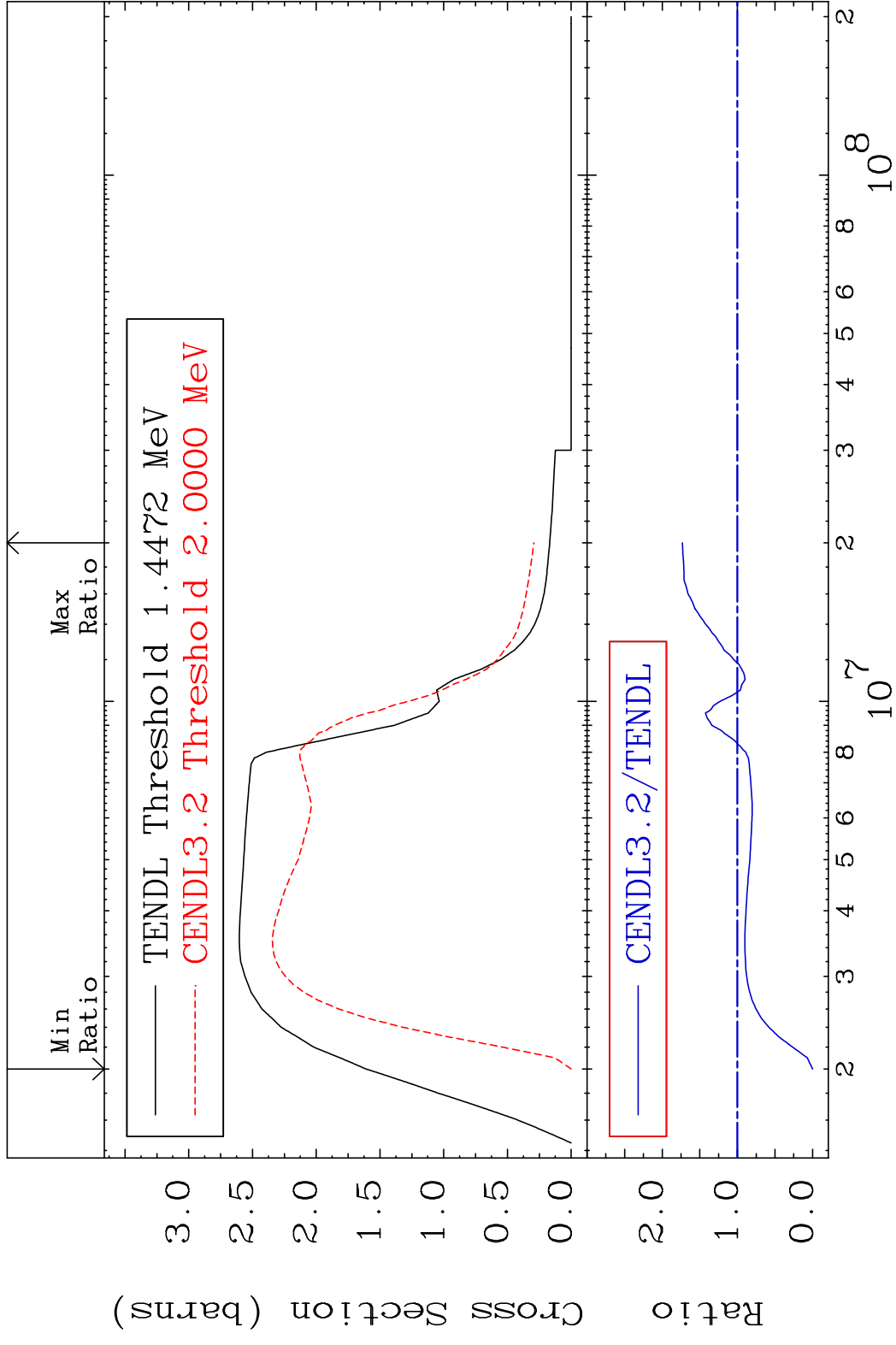


MAT 7237

(n,n') Continuum

72-Hf-178

Cross Section -100.0 To 73.23 %

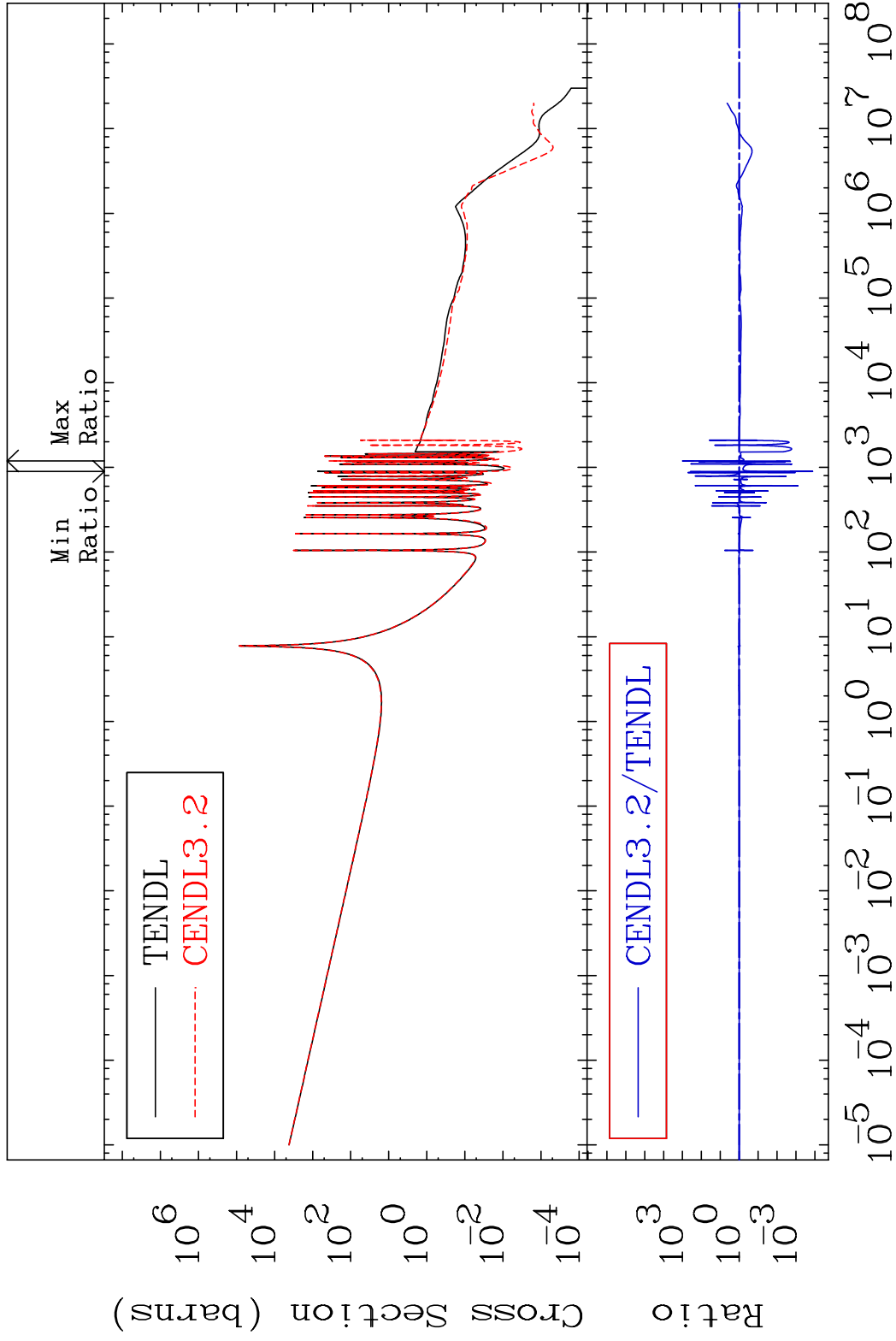


MAT 7237

(n, γ)

72-Hf-178

Cross Section -99.99 To 9999. %



27

Incident Energy (eV)

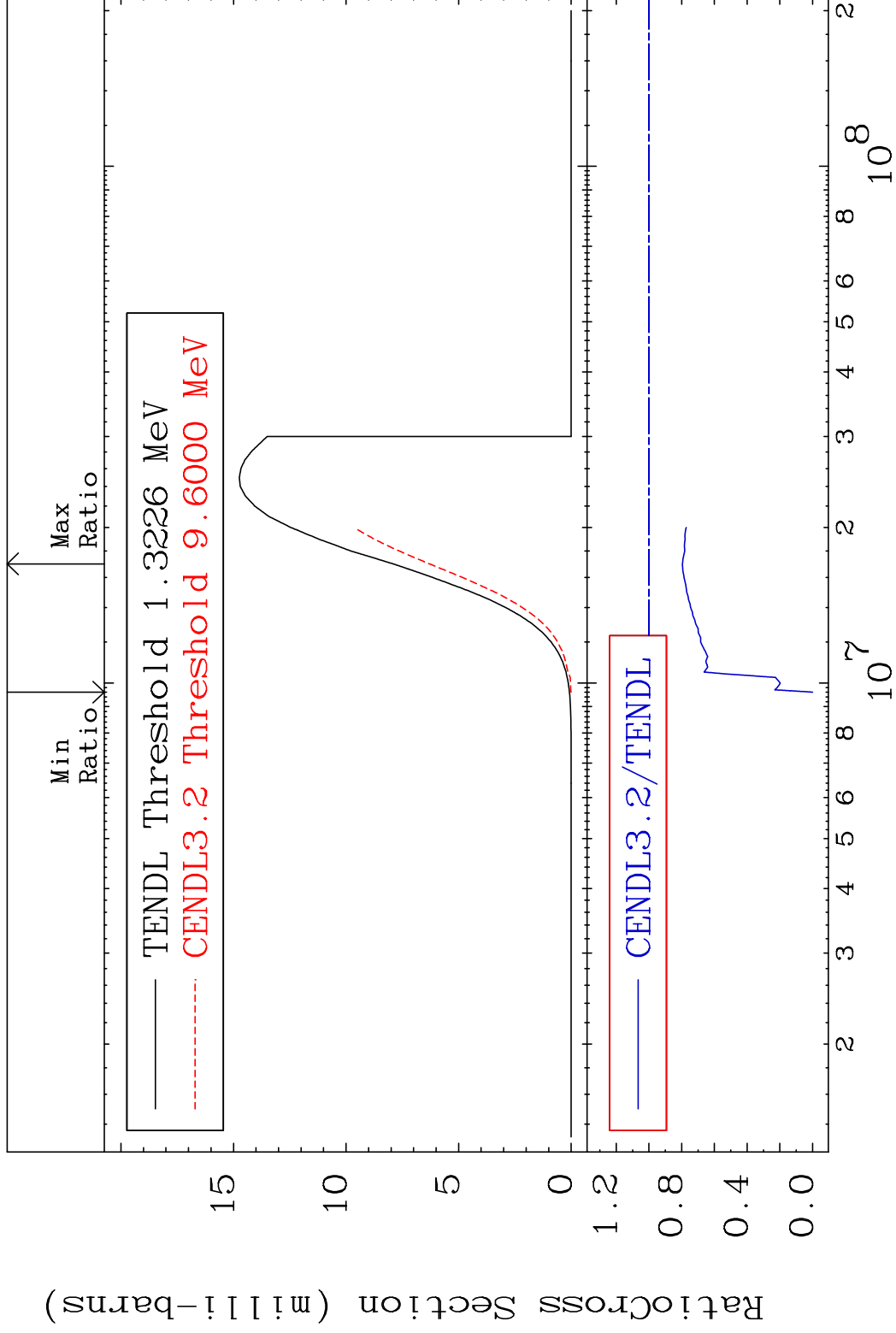
72-Hf-178

MAT 7237

(n, p)

72-Hf-178

Cross Section -100.0 To -20.43%



28

Incident Energy (eV)

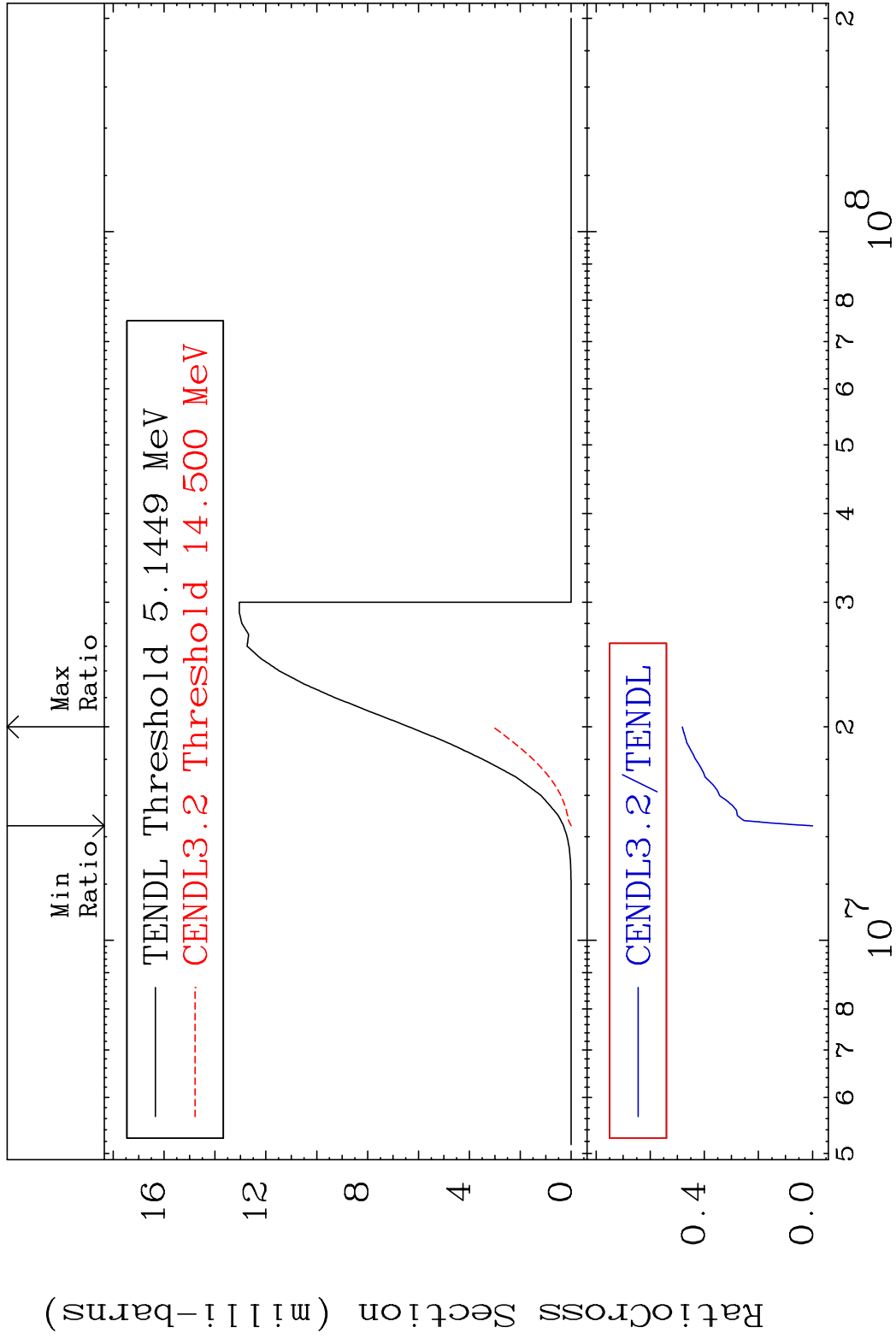
72-Hf-178

MAT 7237

(n, d)

72-Hf-178

Cross Section -100.0 To -51.88%



29

Incident Energy (eV)

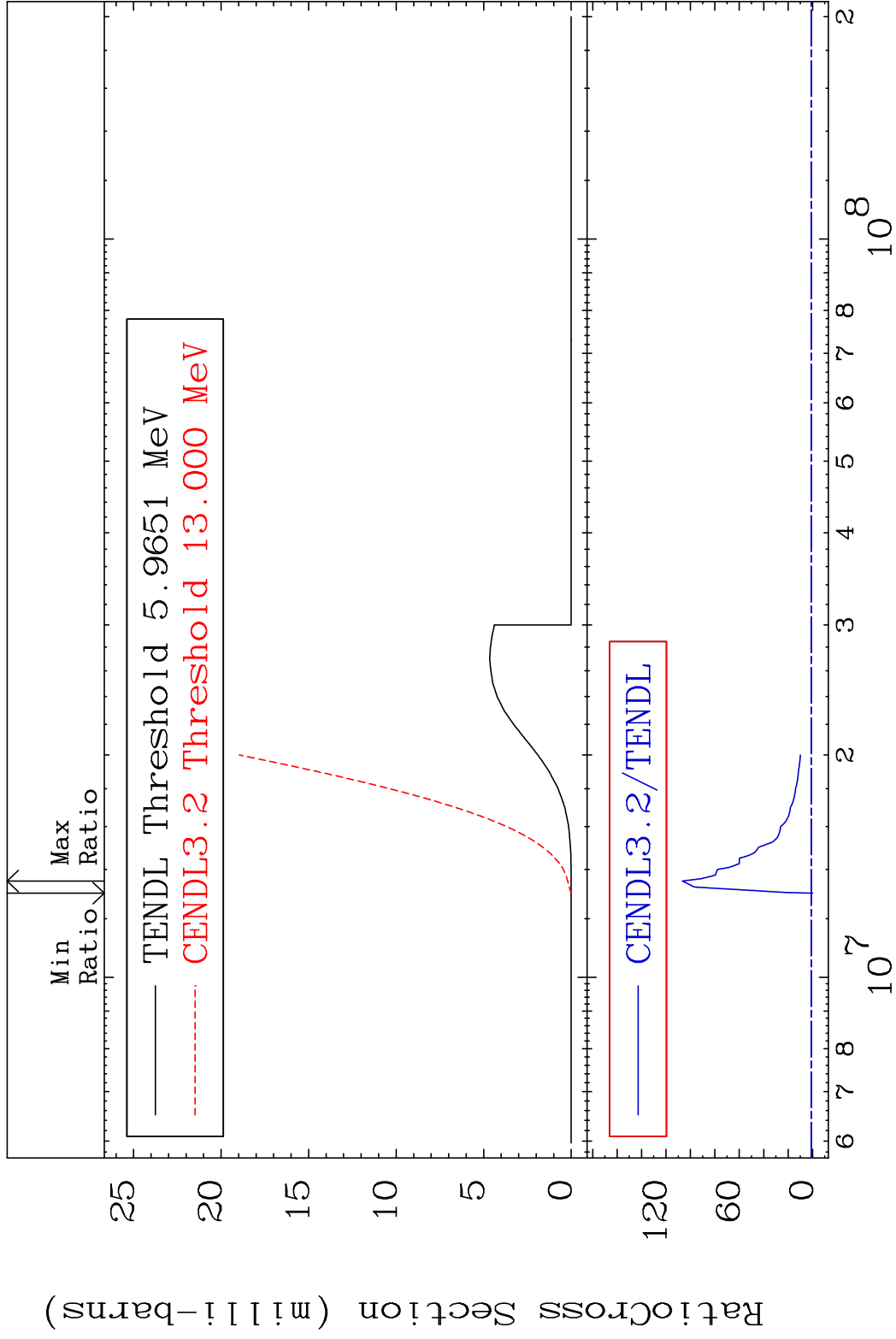
72-Hf-178

MAT 7237

(n, t)

72-Hf-178

Cross Section -100.0 To 9999. %



30

Incident Energy (eV)

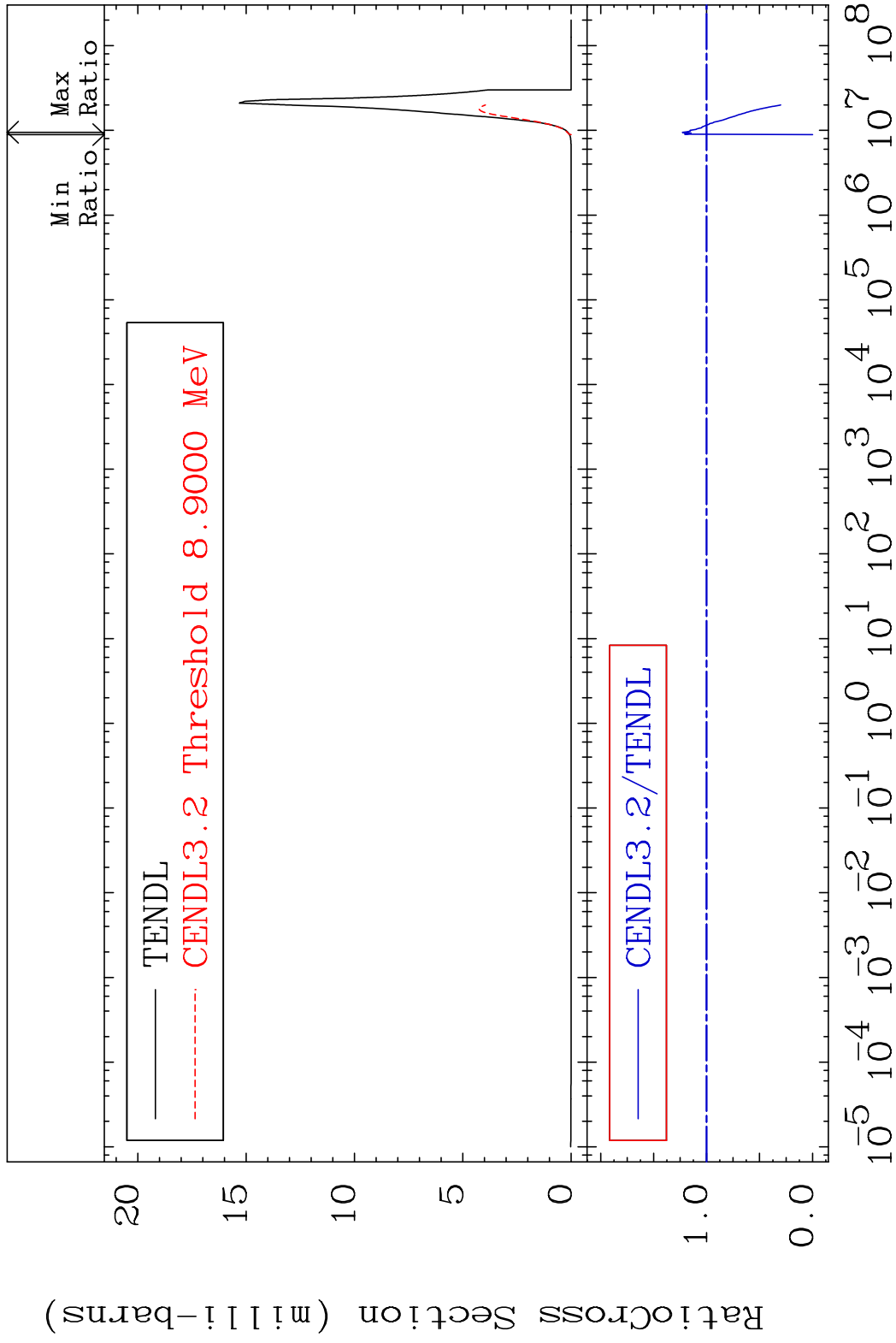
72-Hf-178

MAT 7237

(n, α)

72-Hf-178

Cross Section -100.0 To 22.88 %

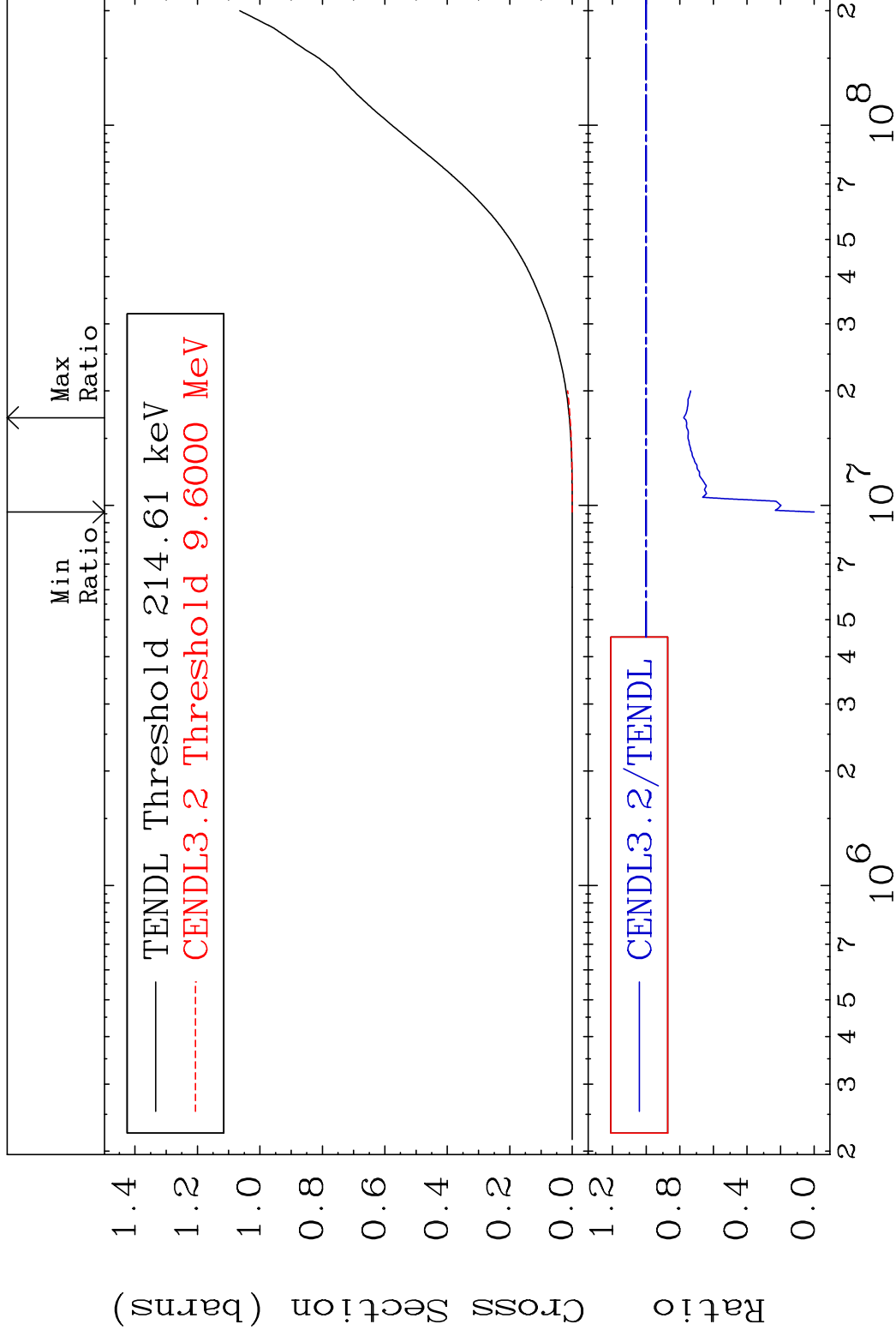


31

Incident Energy (eV)

72-Hf-178

Cross Section -100.0 To -22.35%

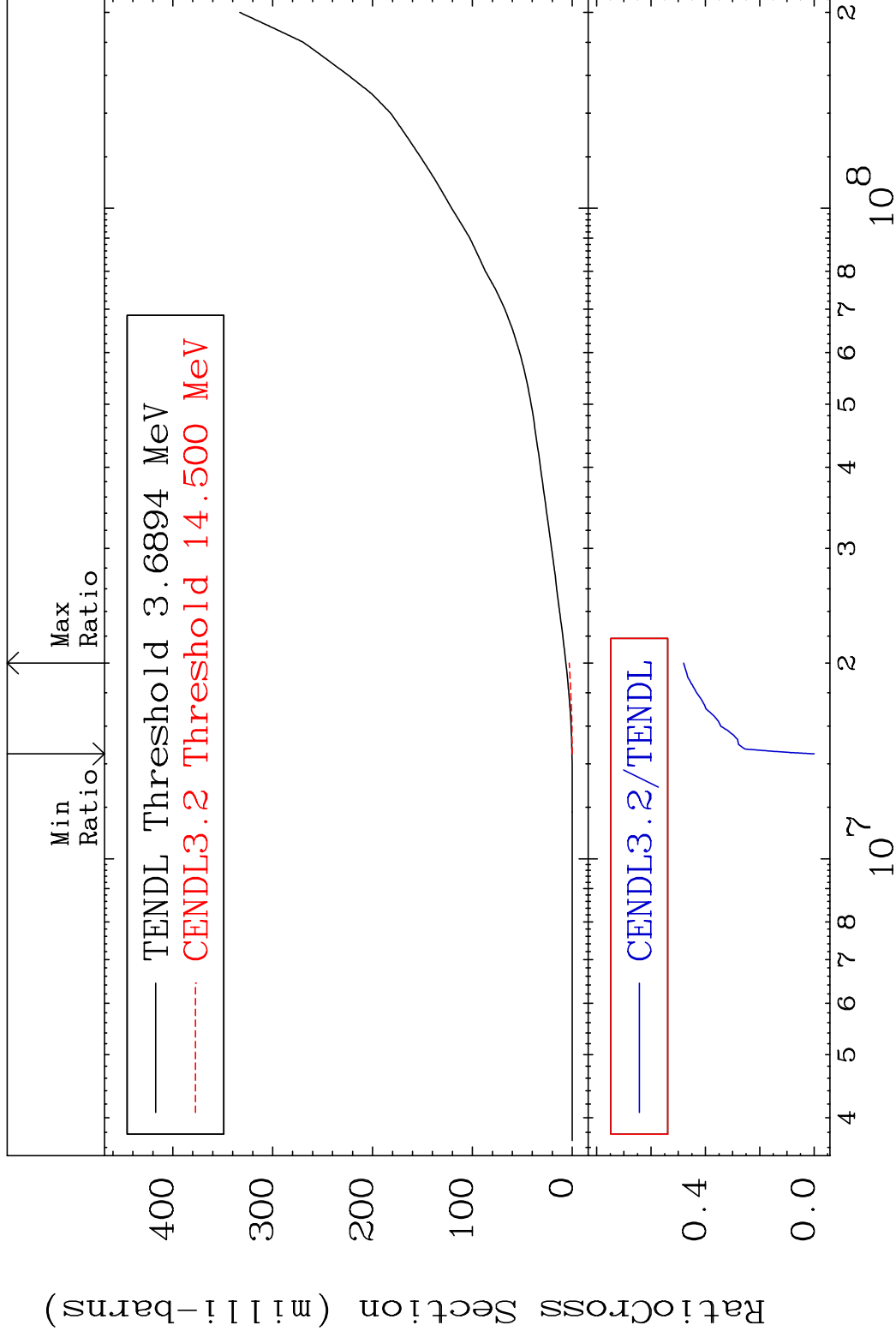


MAT 7237

Deuterium Production

72-Hf-178

Cross Section -100.0 To -52.00%



33

Incident Energy (eV)

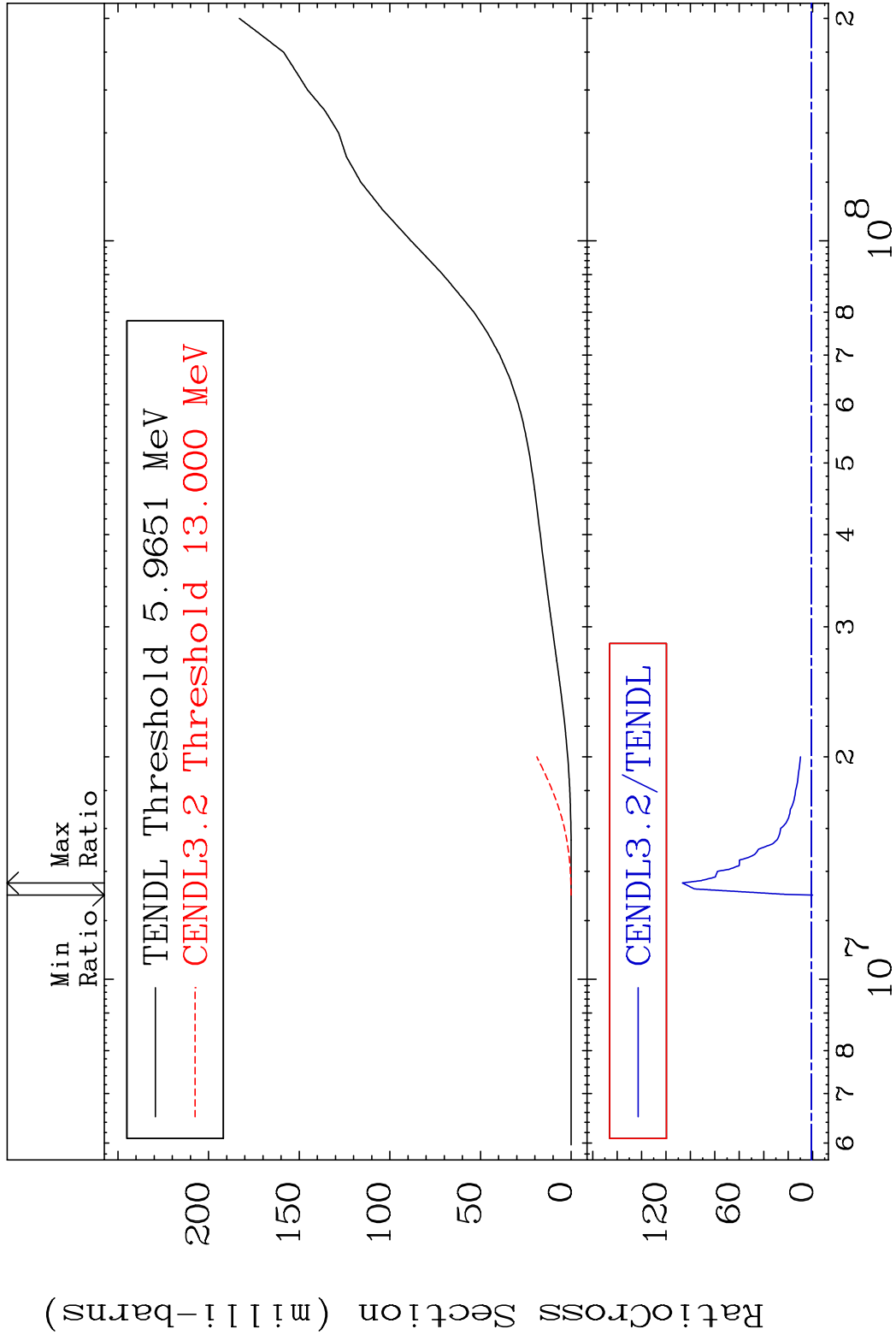
72-Hf-178

MAT 7237

Tritium Production

72-Hf-178

Cross Section -100.0 To 9999. %



34

Incident Energy (eV)

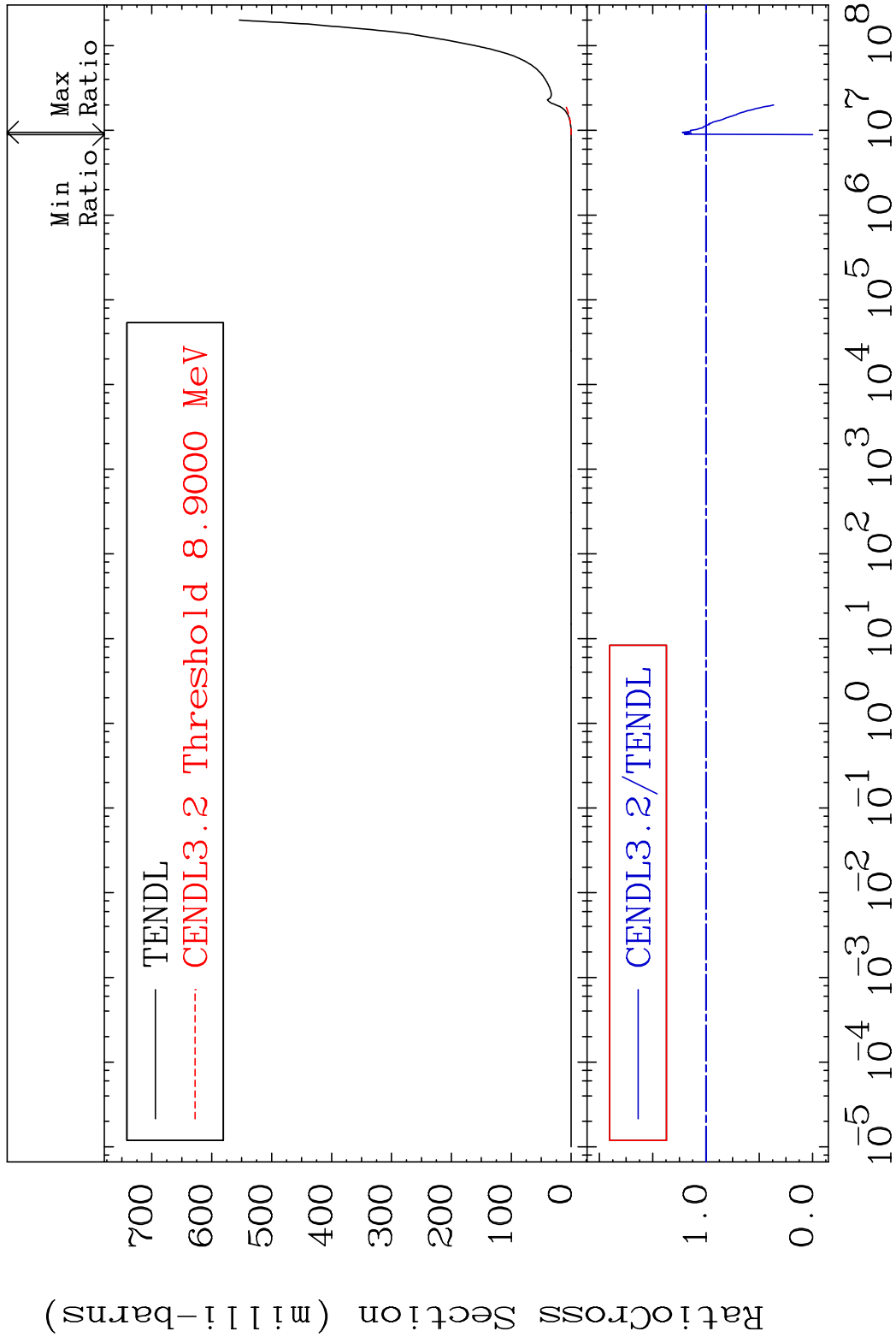
72-Hf-178

MAT 7237

He-4 Production

72-Hf-178

Cross Section -100.0 To 22.19 %



35

Incident Energy (eV)

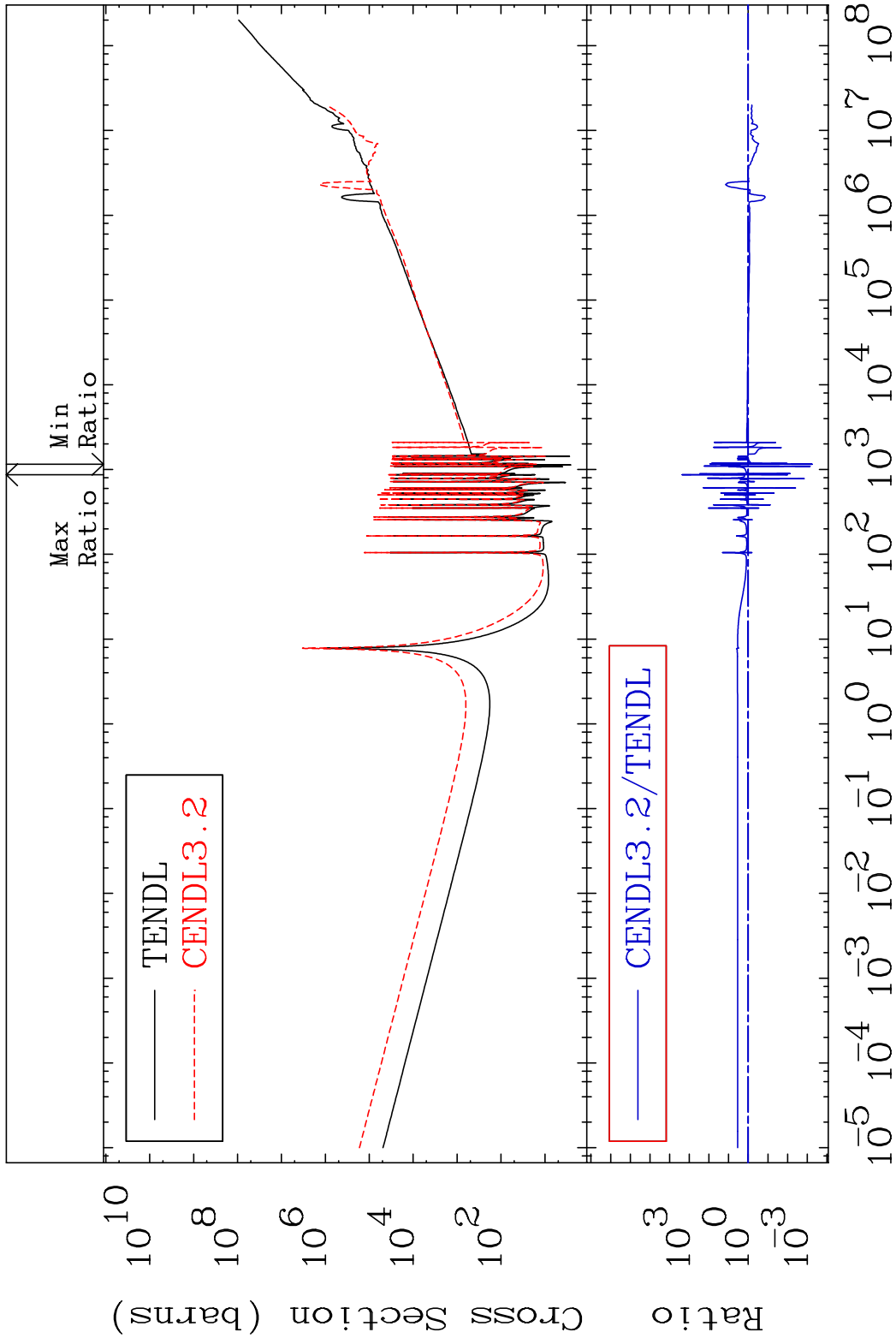
72-Hf-178

MAT 7237

Kerma total (eV-barns)

72-Hf-178

Cross Section -99.95 To 9999. %



36

Incident Energy (eV)

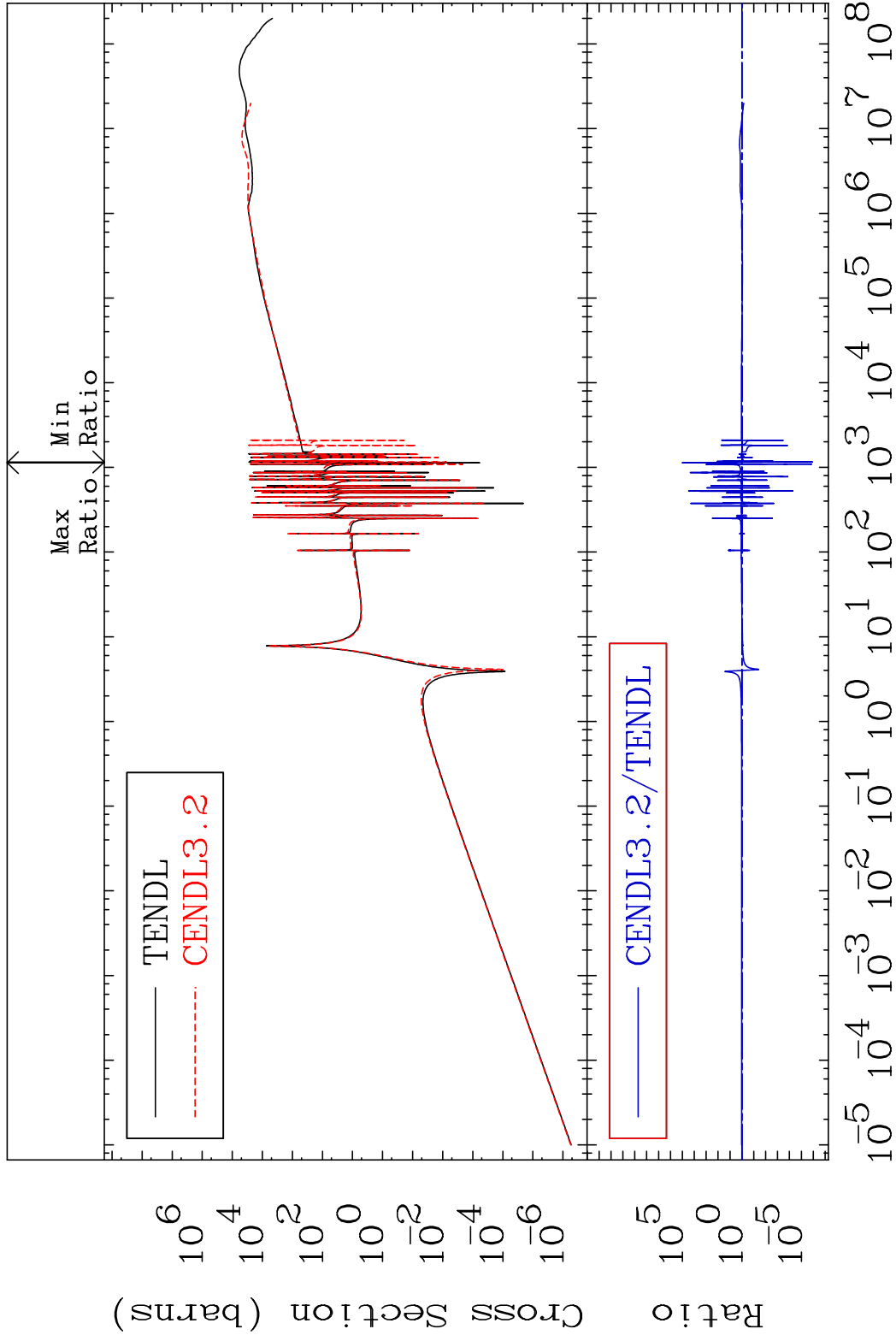
72-Hf-178

MAT 7237

Kerma elastic

72-Hf-178

Cross Section -100.0 To 9999. %

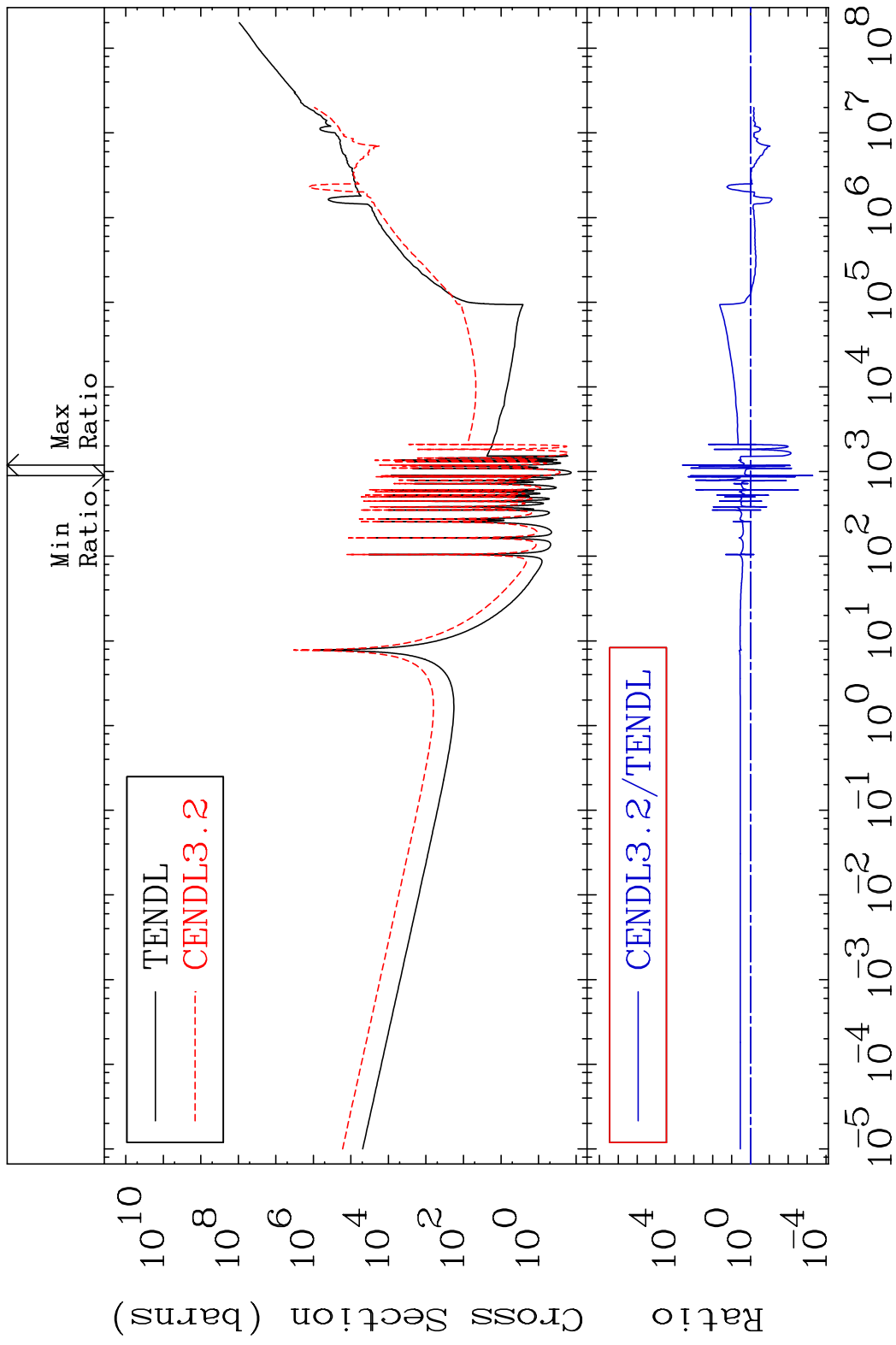


37

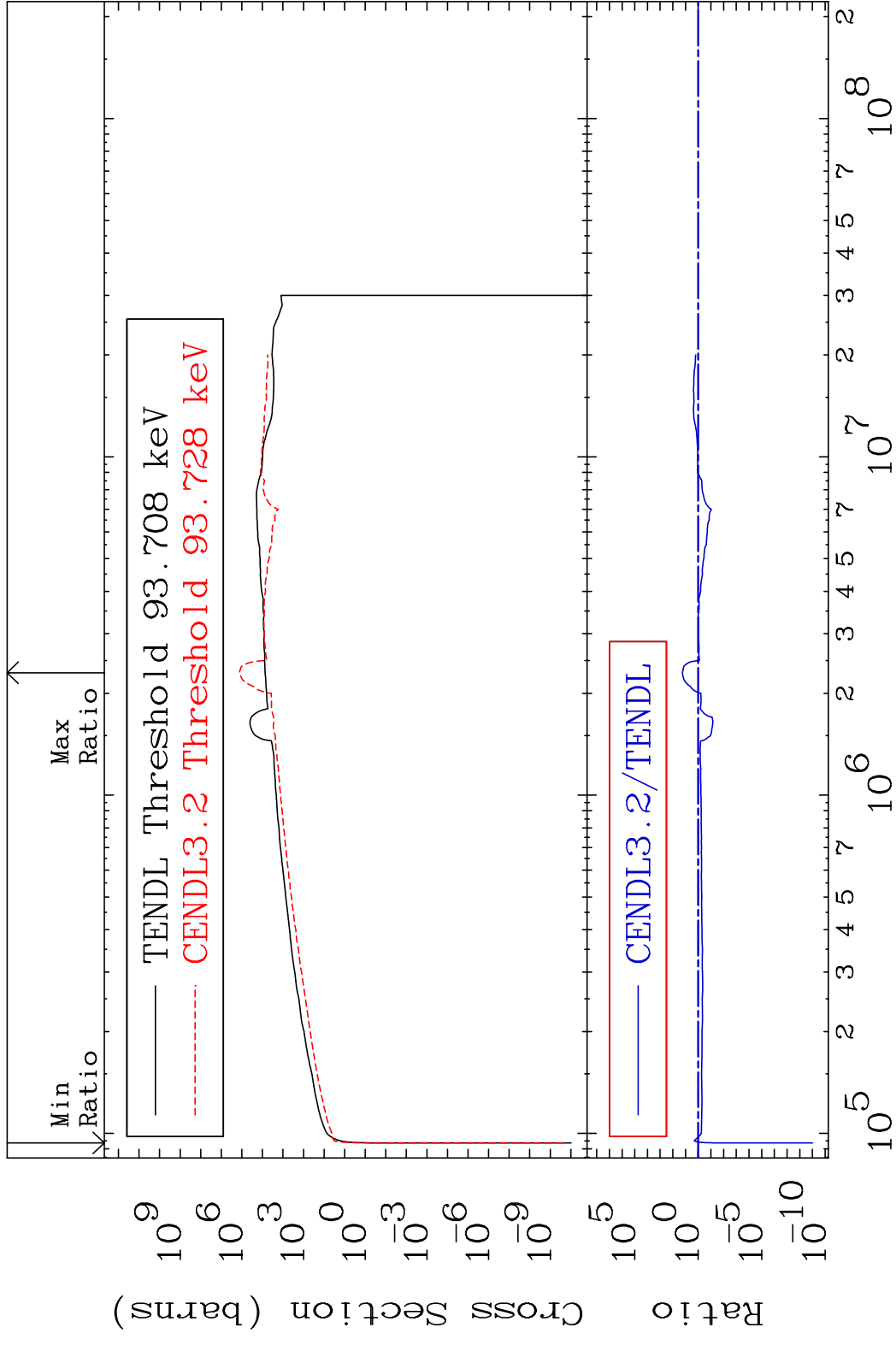
Incident Energy (eV)

72-Hf-178

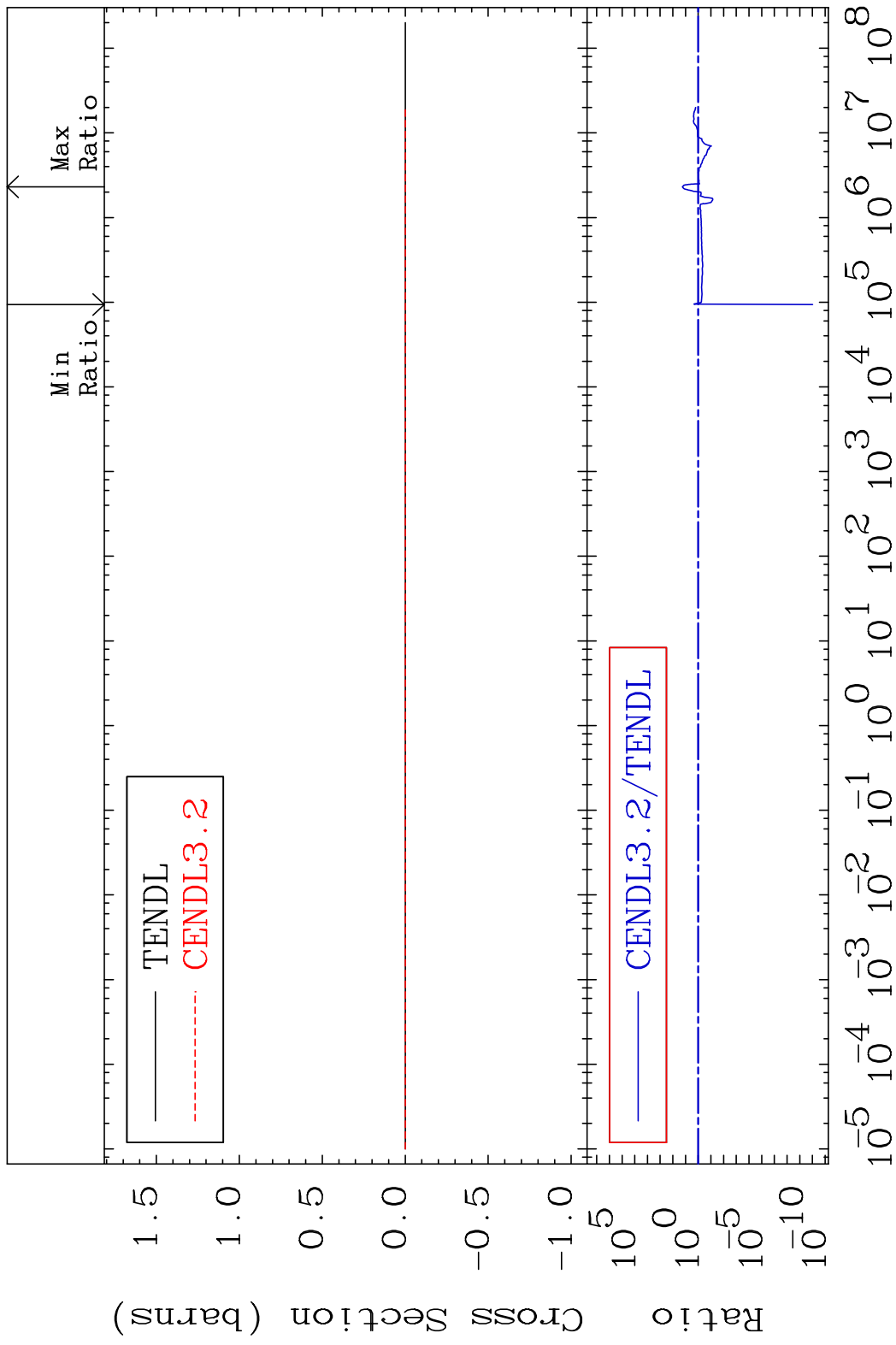
MAT 7237 Kerma non-elastic (all but mt2) 72-Hf-178
 Cross Section -99.95 To 9999. %

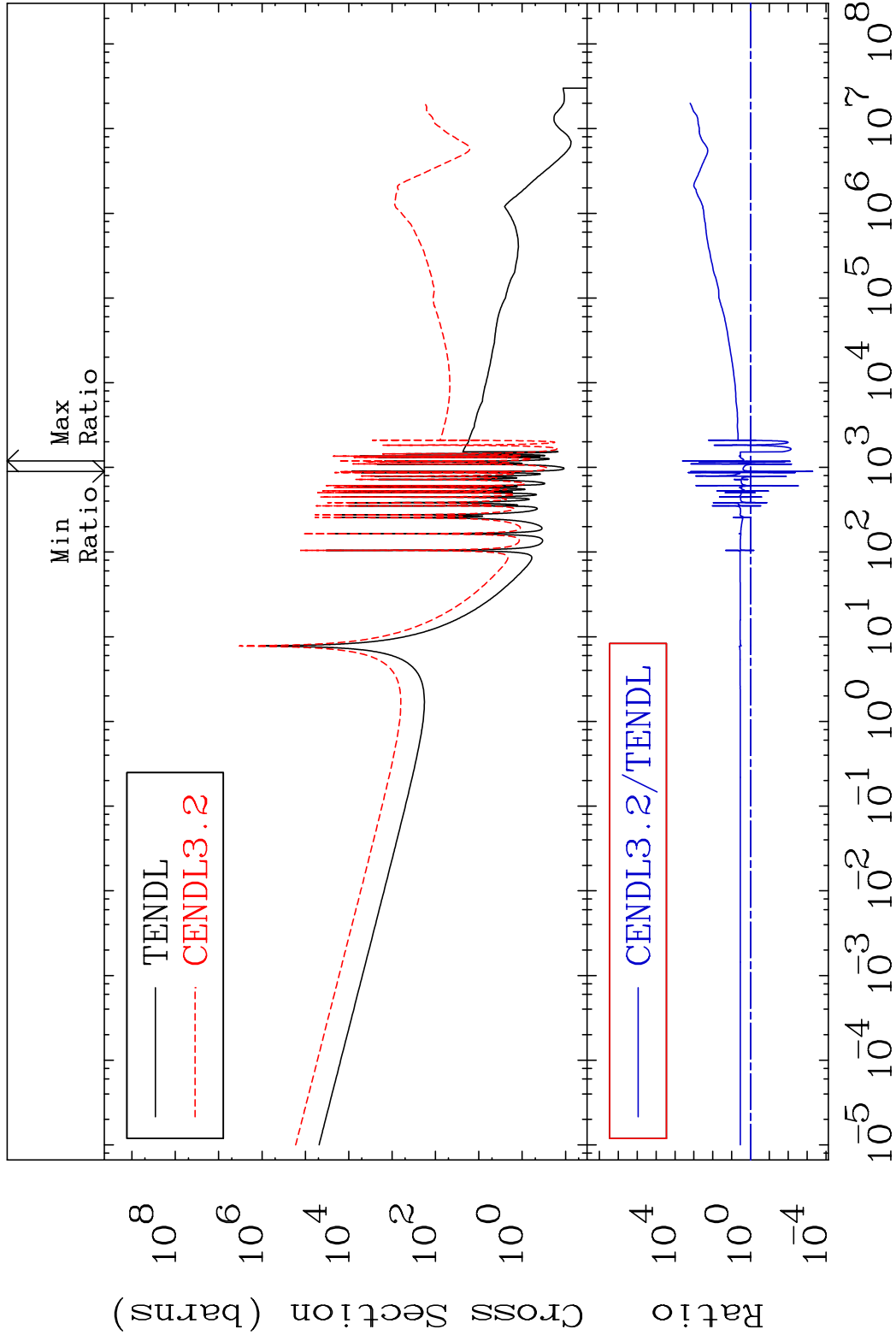


MAT 7237 Kerma inelastic (mt51-91) 72-Hf-178
 Cross Section -100.0 To 1677. %

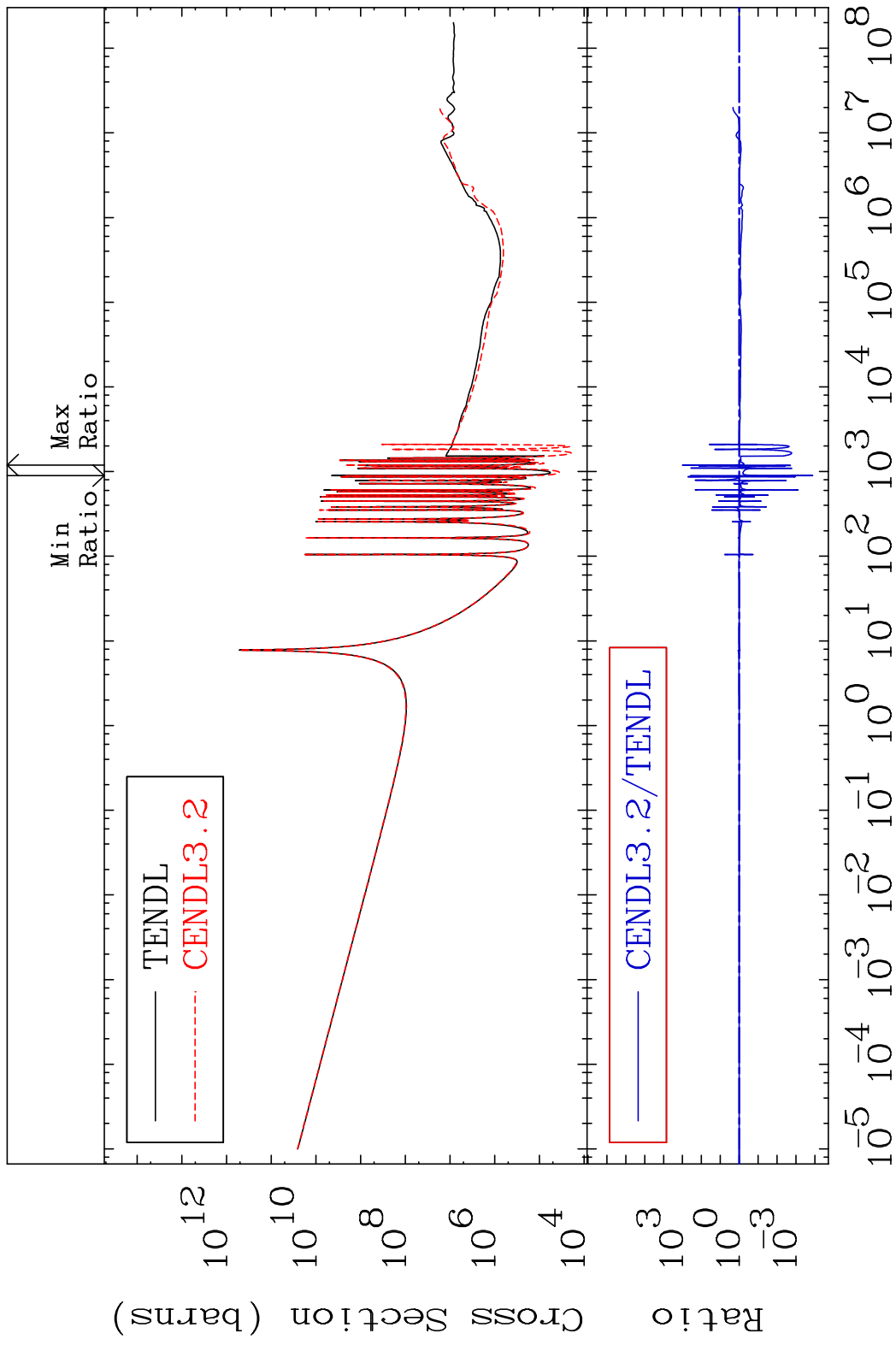


MAT 7237 Kerma fission (mt18 or mt19-20-21-38) 72-Hf-178
 Cross Section -100.0 To 1677. %

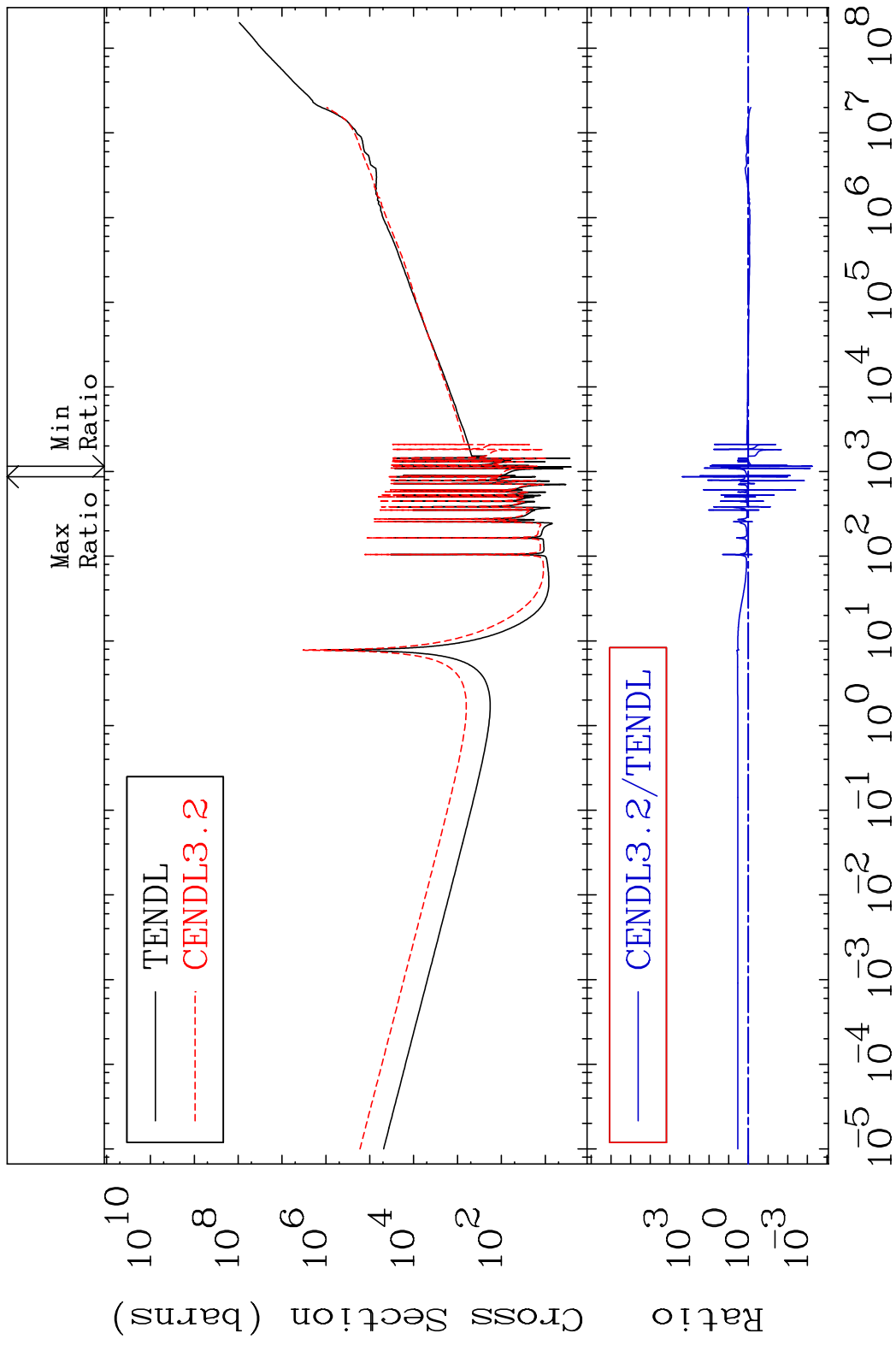




MAT 7237 Total photon (eV-barns) 72-Hf-178
 Cross Section -99.99 To 9999. %



MAT 7237 Total kinematic kerma (high limit) 72-Hf-178
 Cross Section -99.95 To 9999. %

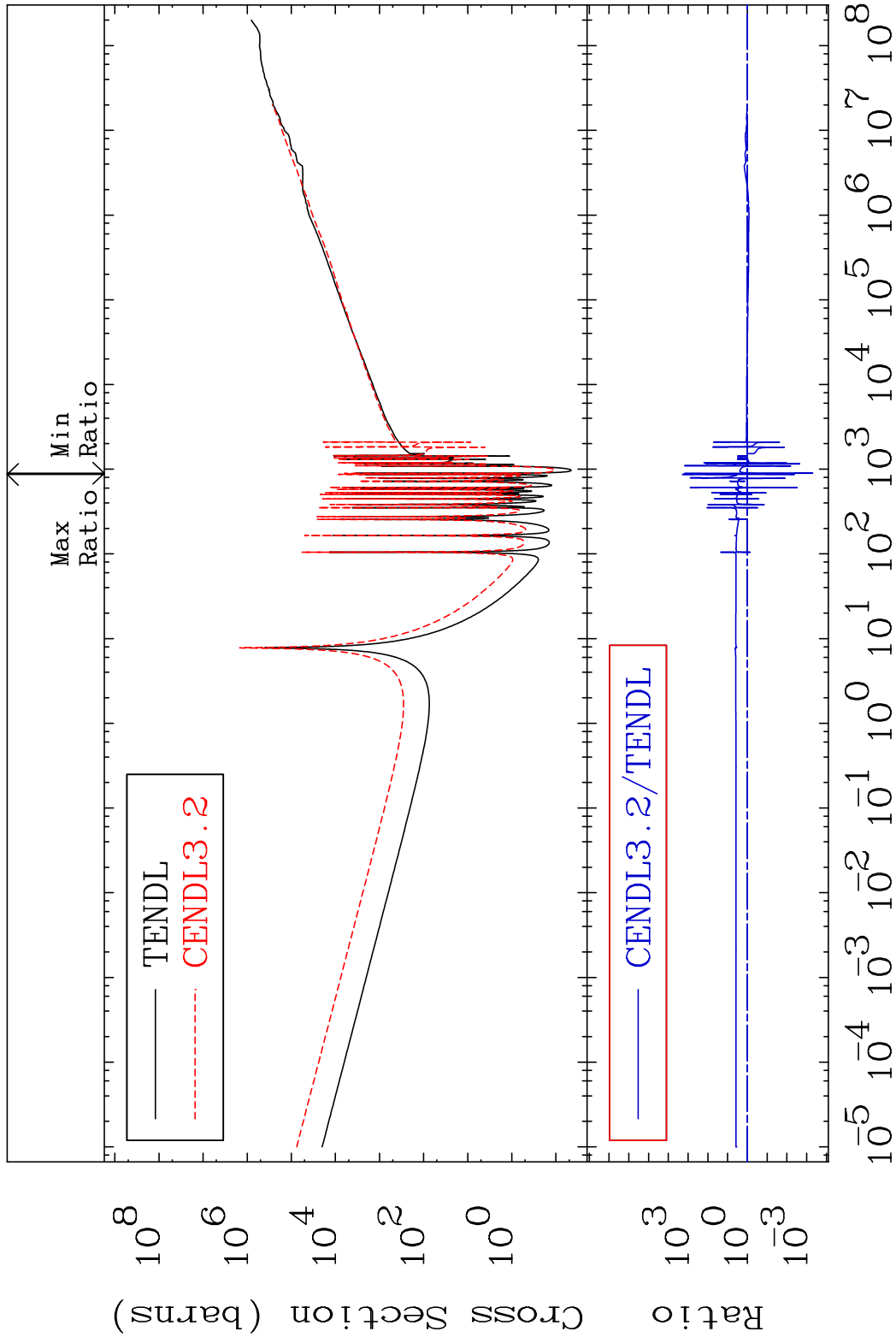


MAT 7237

Dpa total (eV-barns)

72-Hf-178

Cross Section -99.95 To 9999. %



44

Incident Energy (eV)

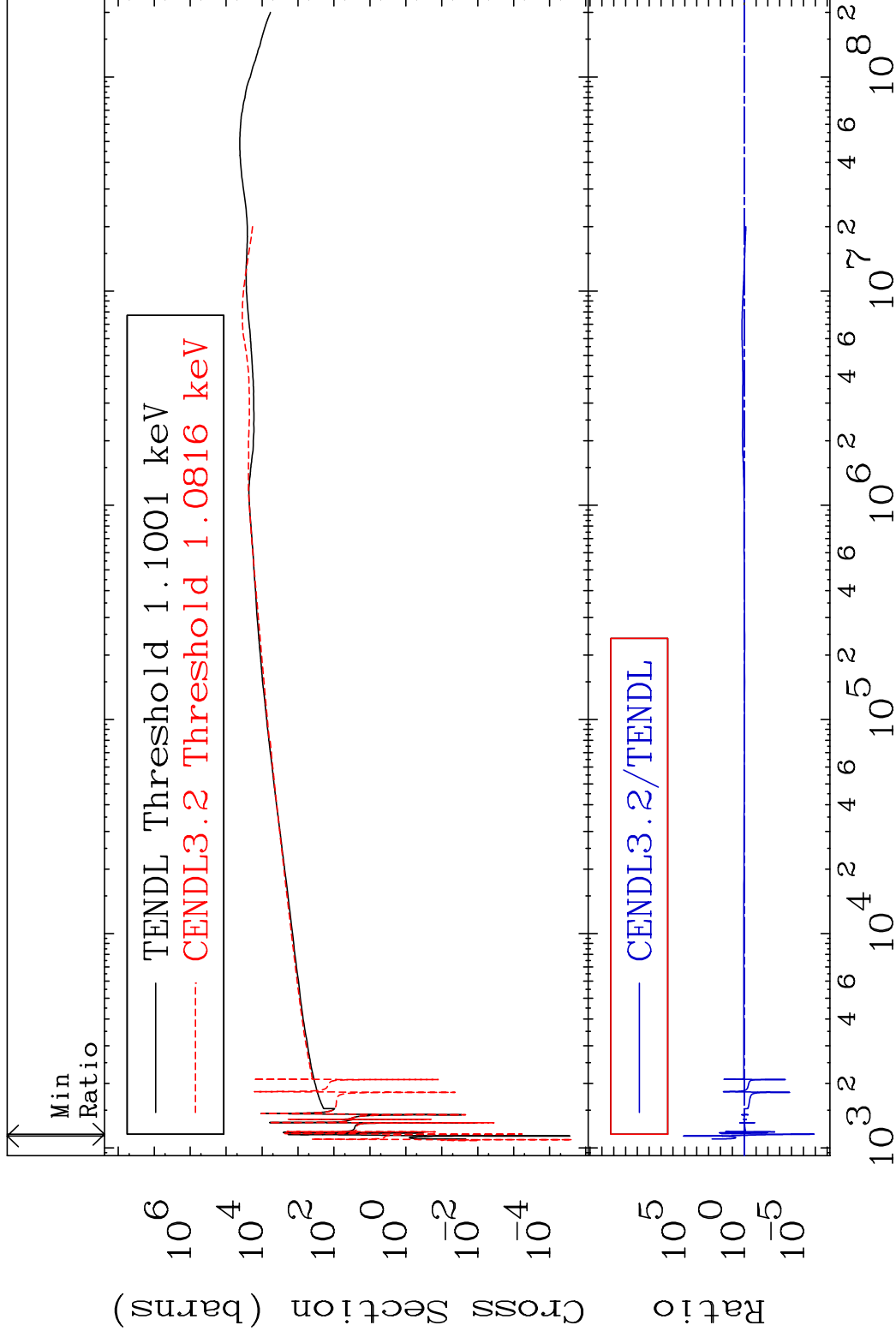
72-Hf-178

MAT 7237

Dpa elastic (mt2)

72-Hf-178

Cross Section -100.0 To 9999. %



45

Incident Energy (eV)

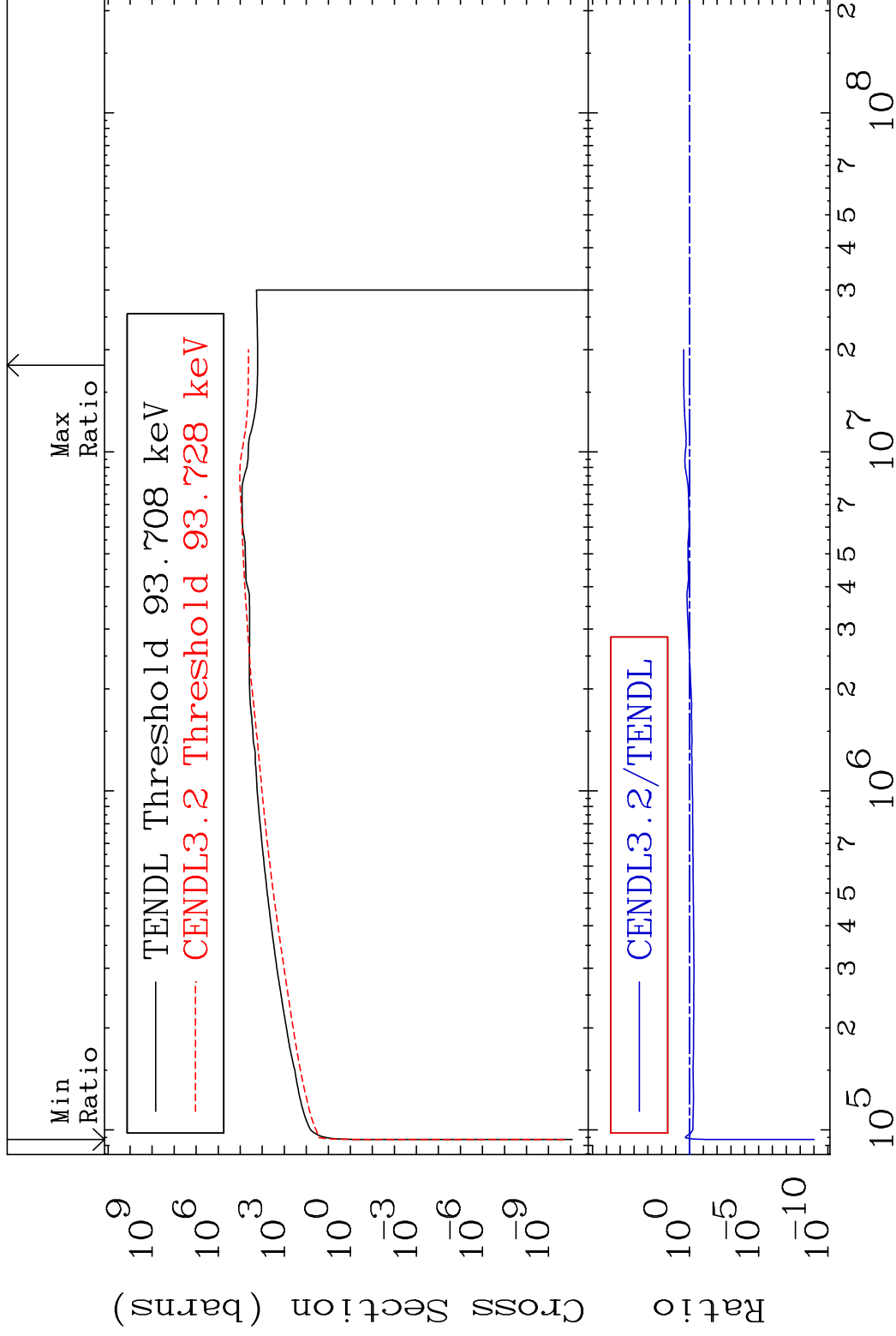
72-Hf-178

MAT 7237

Dpa inelastic (mt51-91)

72-Hf-178

Cross Section -100.0 To 161.3 %

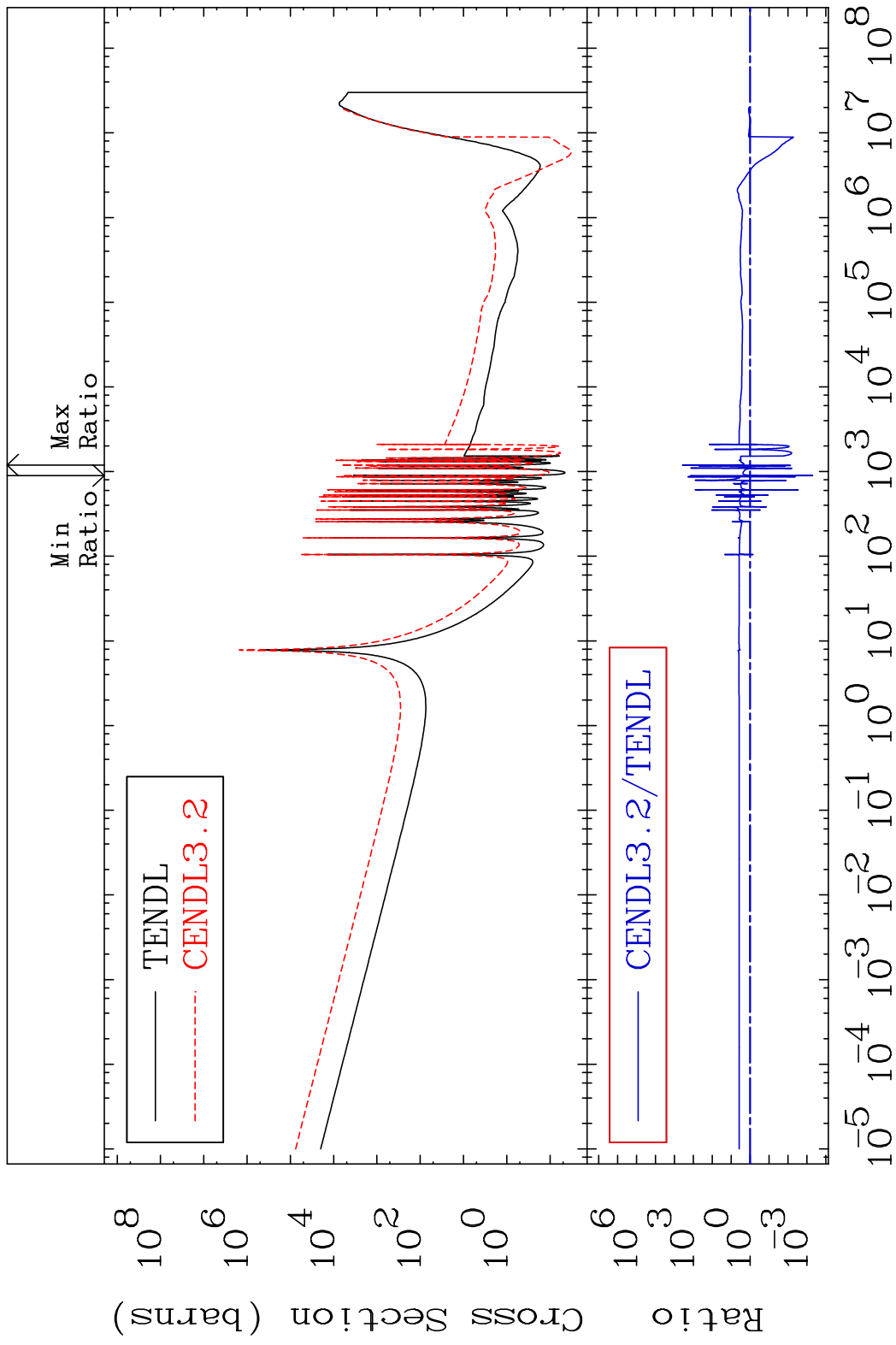


46

Incident Energy (eV)

72-Hf-178

MAT 7237 Dpa disappearance (mt102 -120) 72-Hf-178
 Cross Section -99.95 To 9999. %

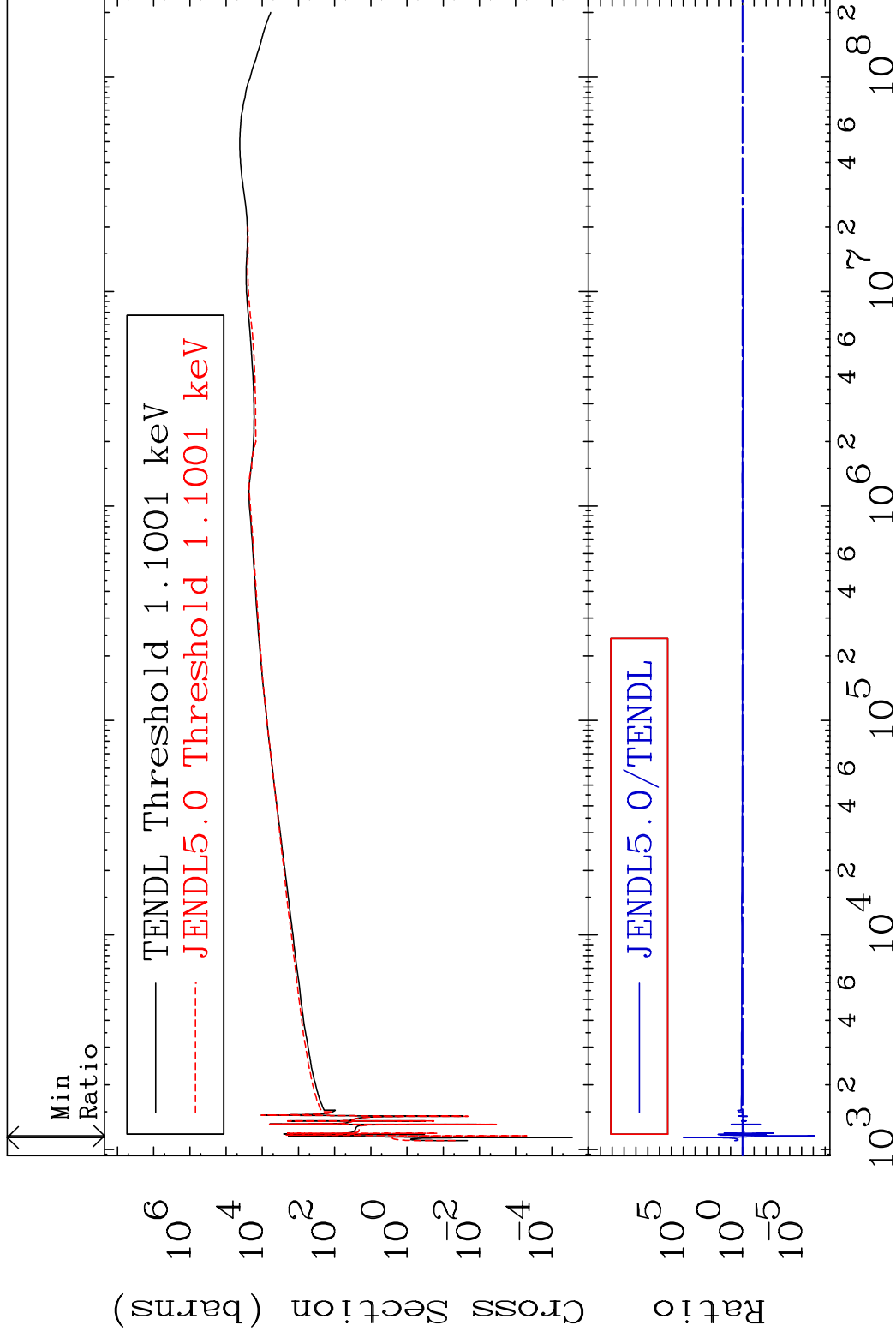


MAT 7237

Dpa elastic (mt2)

72-Hf-178

Cross Section -100.0 To 9999. %

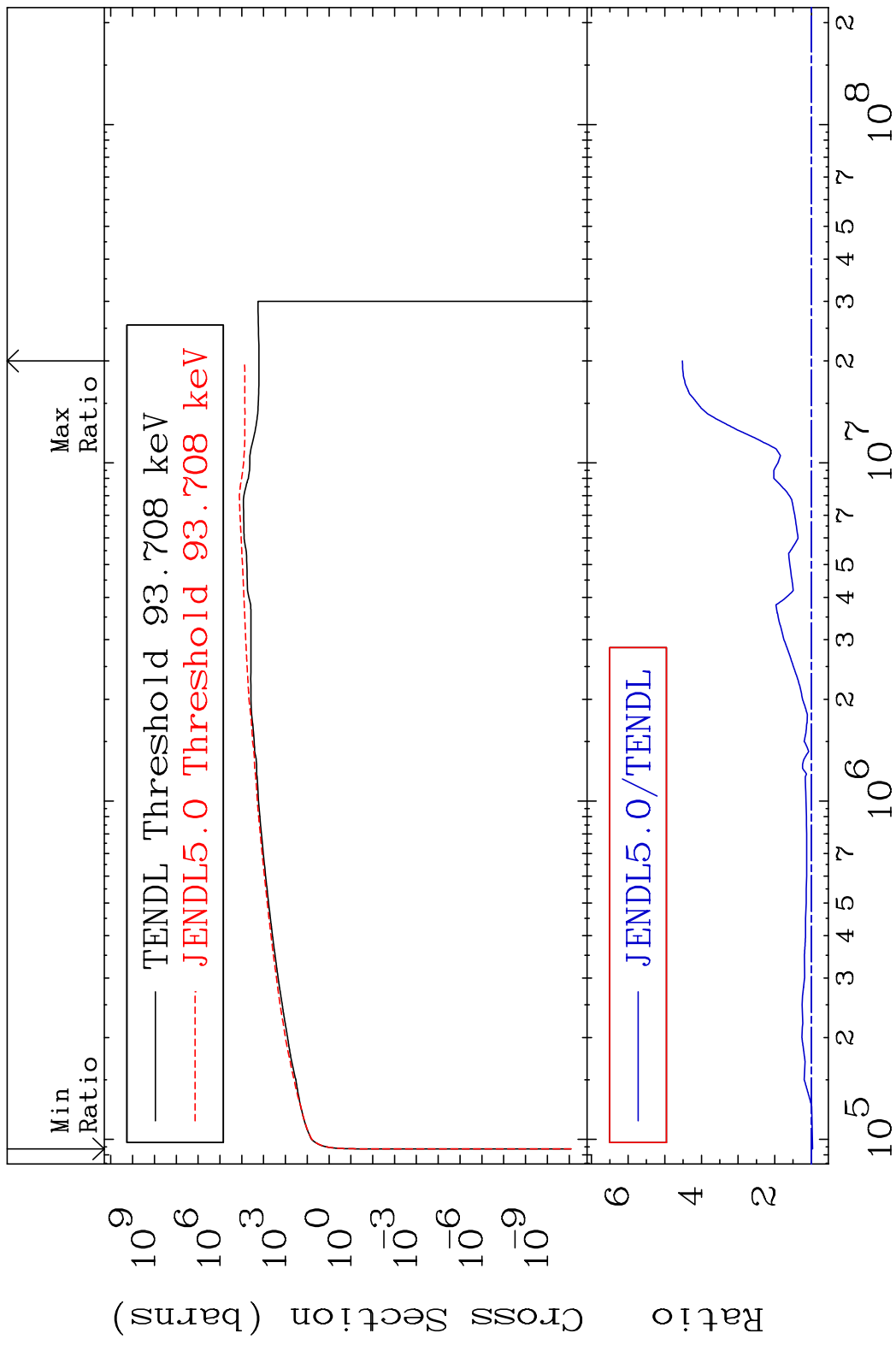


48

Incident Energy (eV)

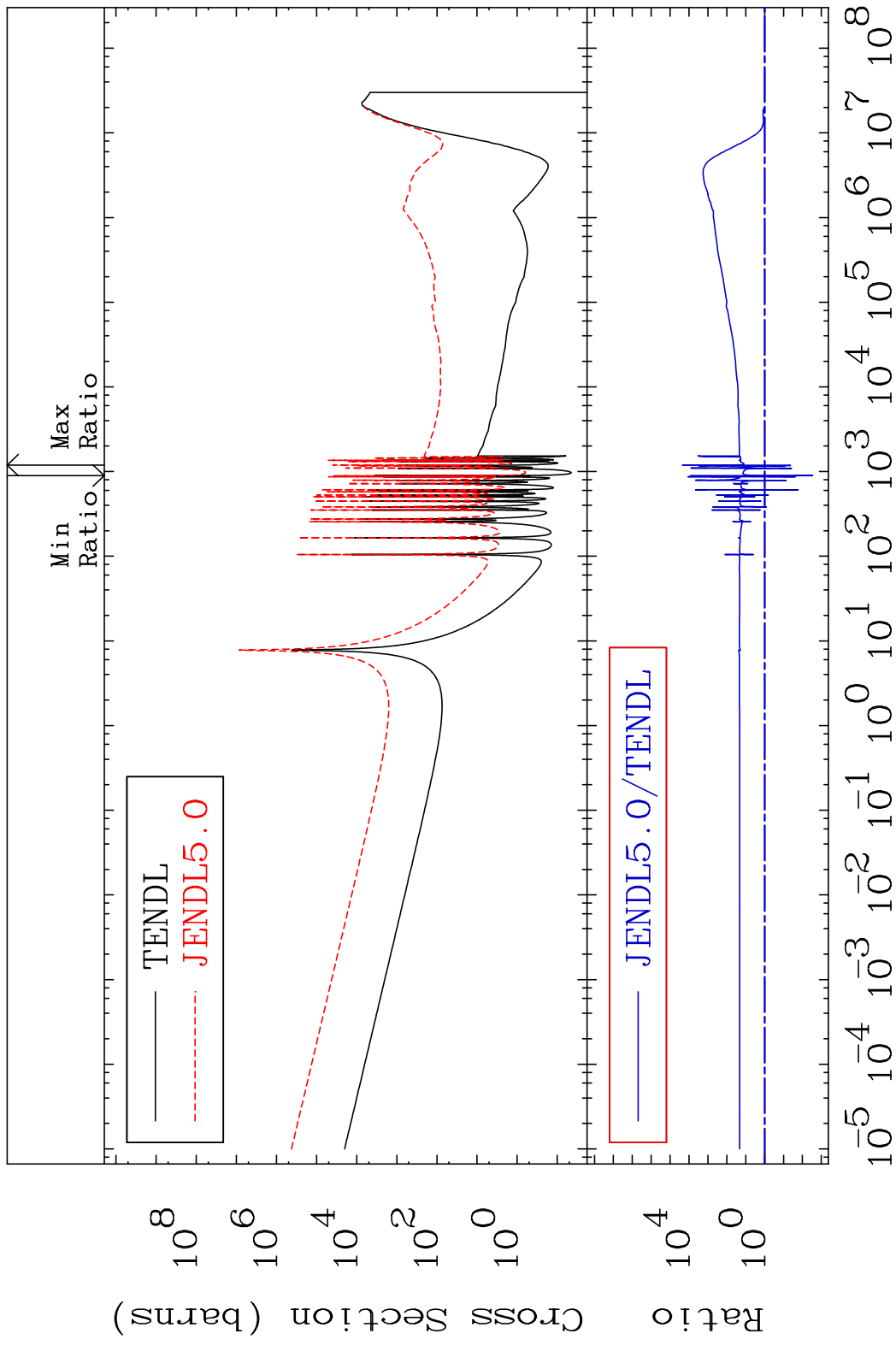
72-Hf-178

MAT 7237 Dpa inelastic (mt51-91) 72-Hf-178
Cross Section -3.094 To 352.0 %

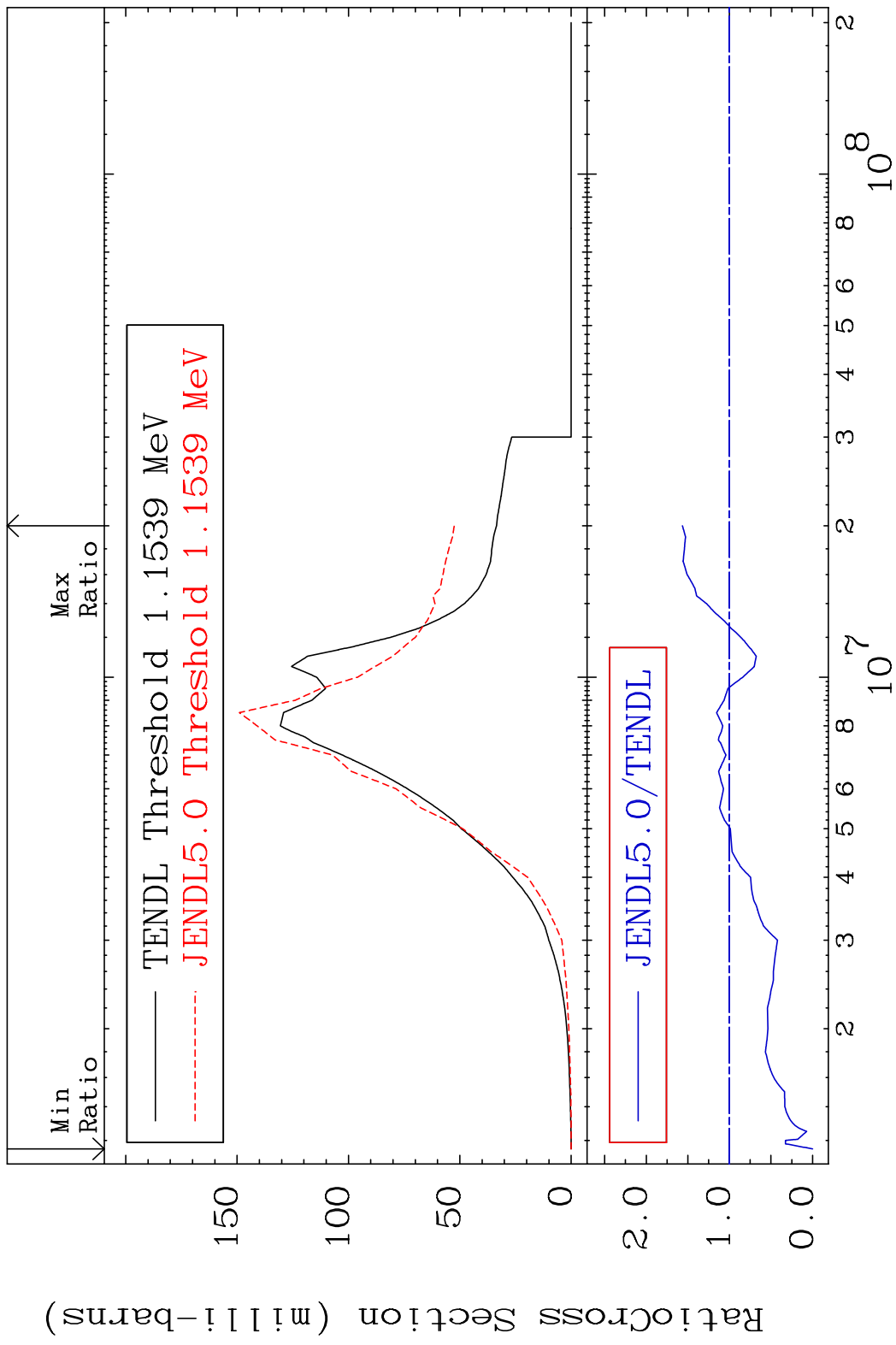


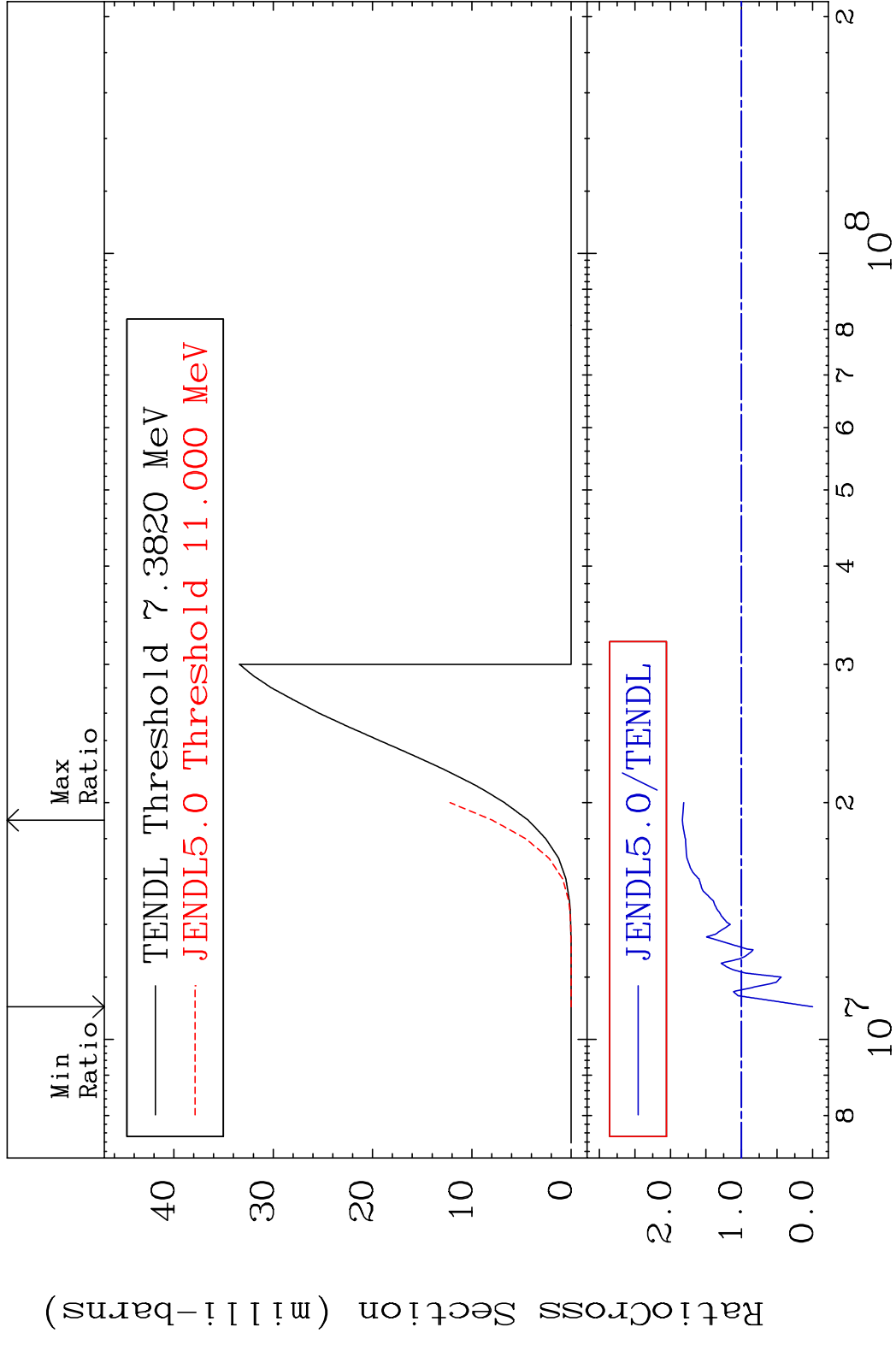
49 Incident Energy (eV) 72-Hf-178

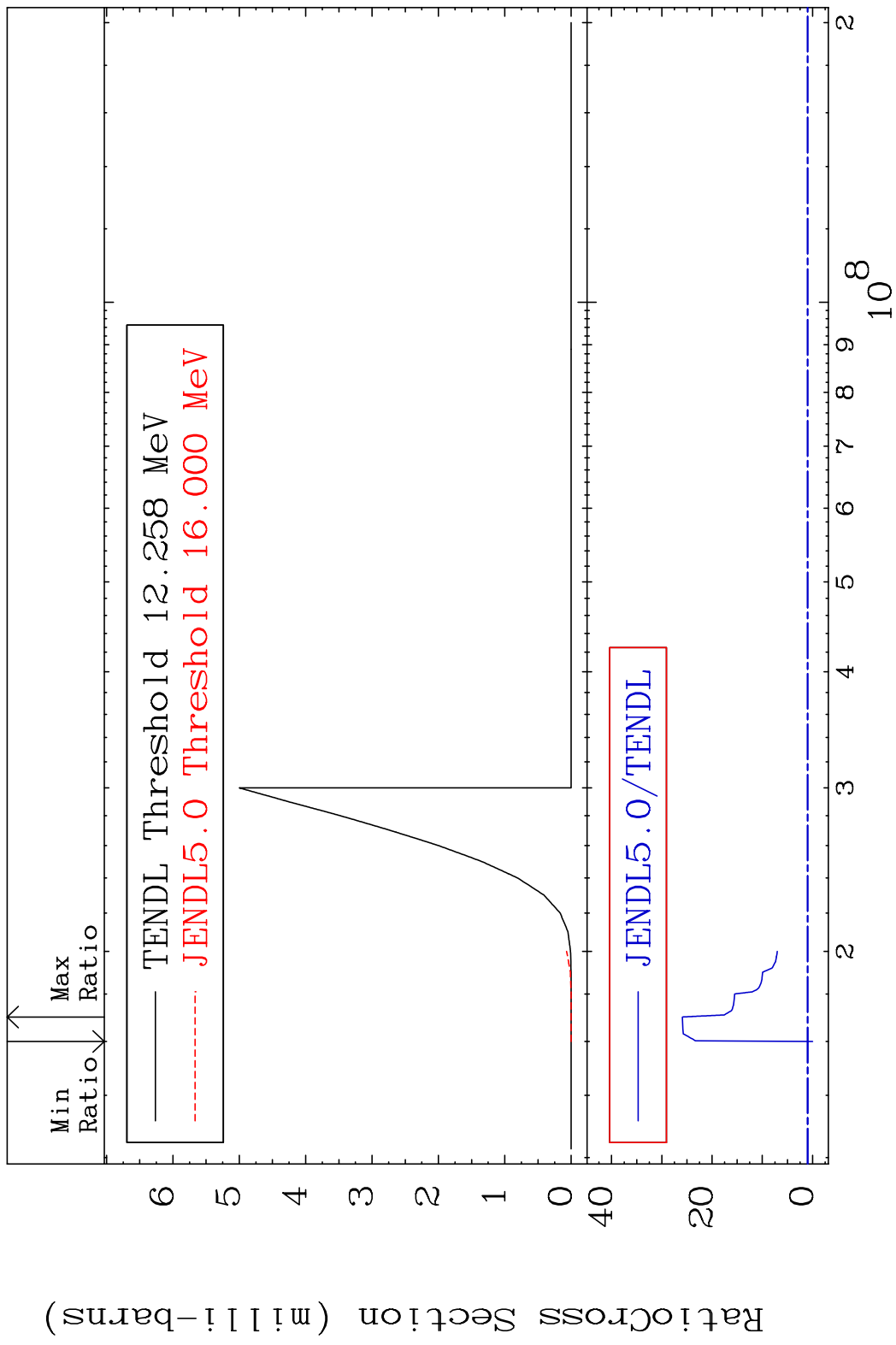
MAT 7237 Dpa disappearance (mt102 -120) 72-Hf-178
 Cross Section -99.71 To 9999. %

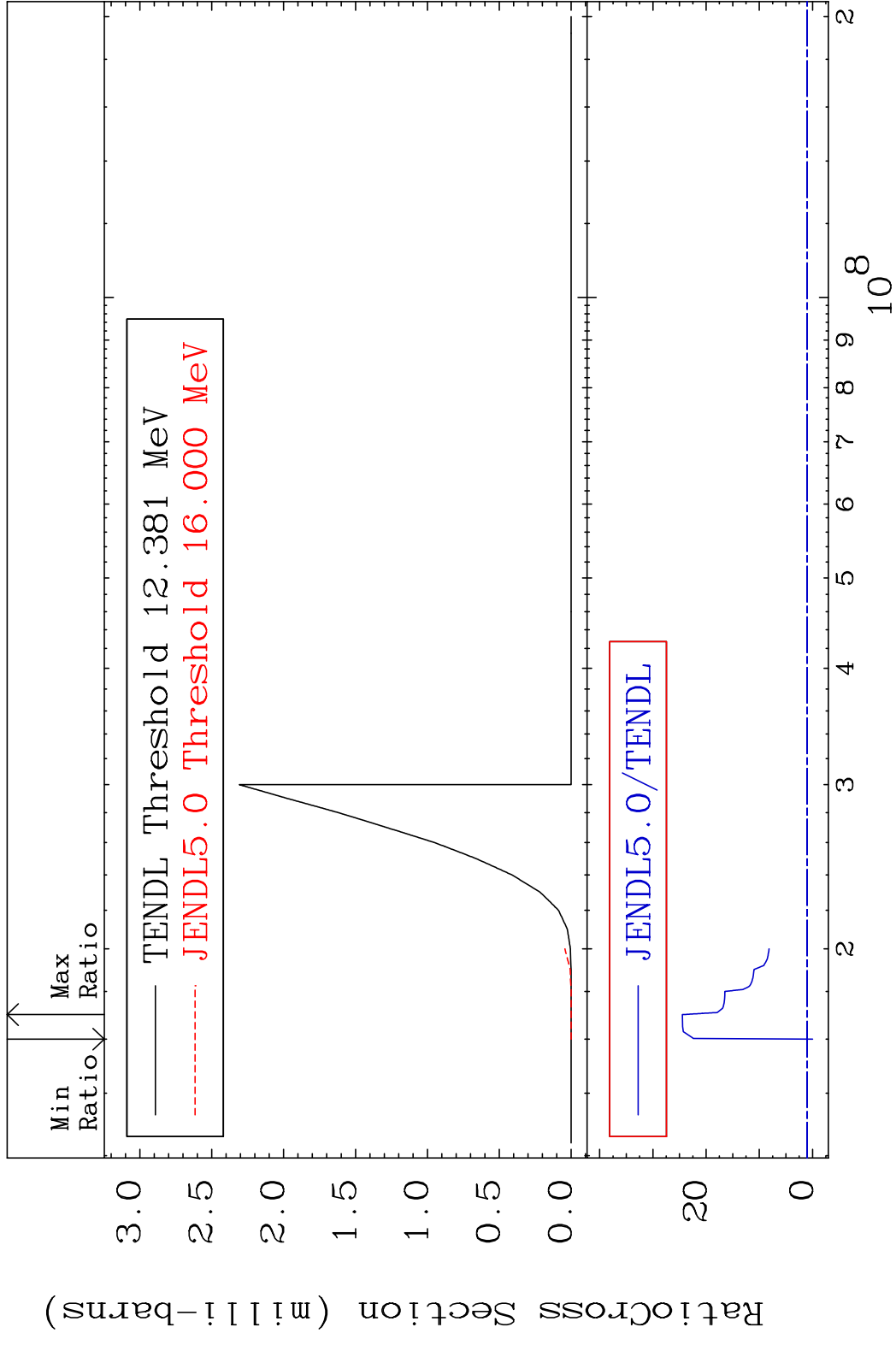


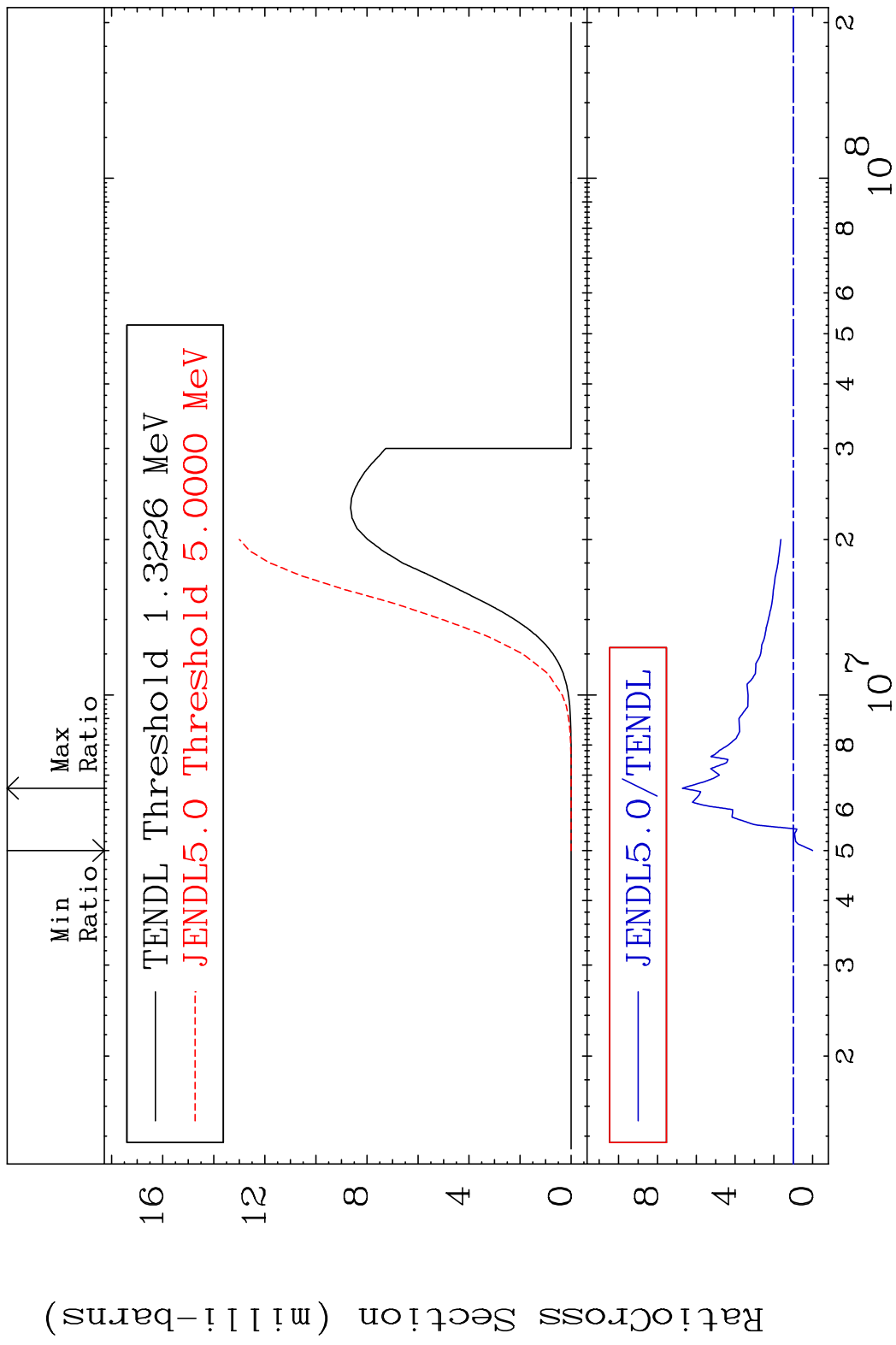
50 Incident Energy (eV) 72-Hf-178

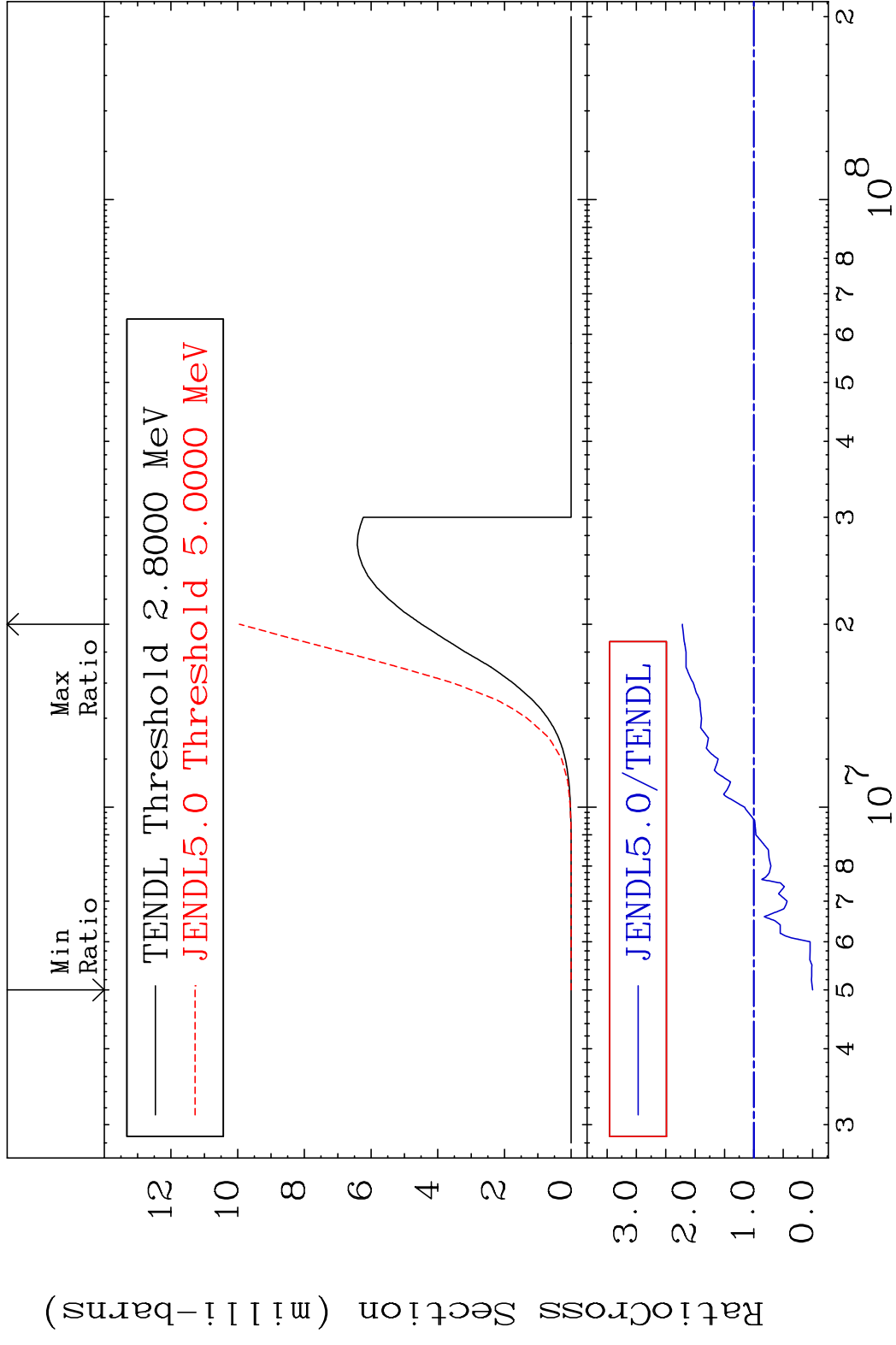


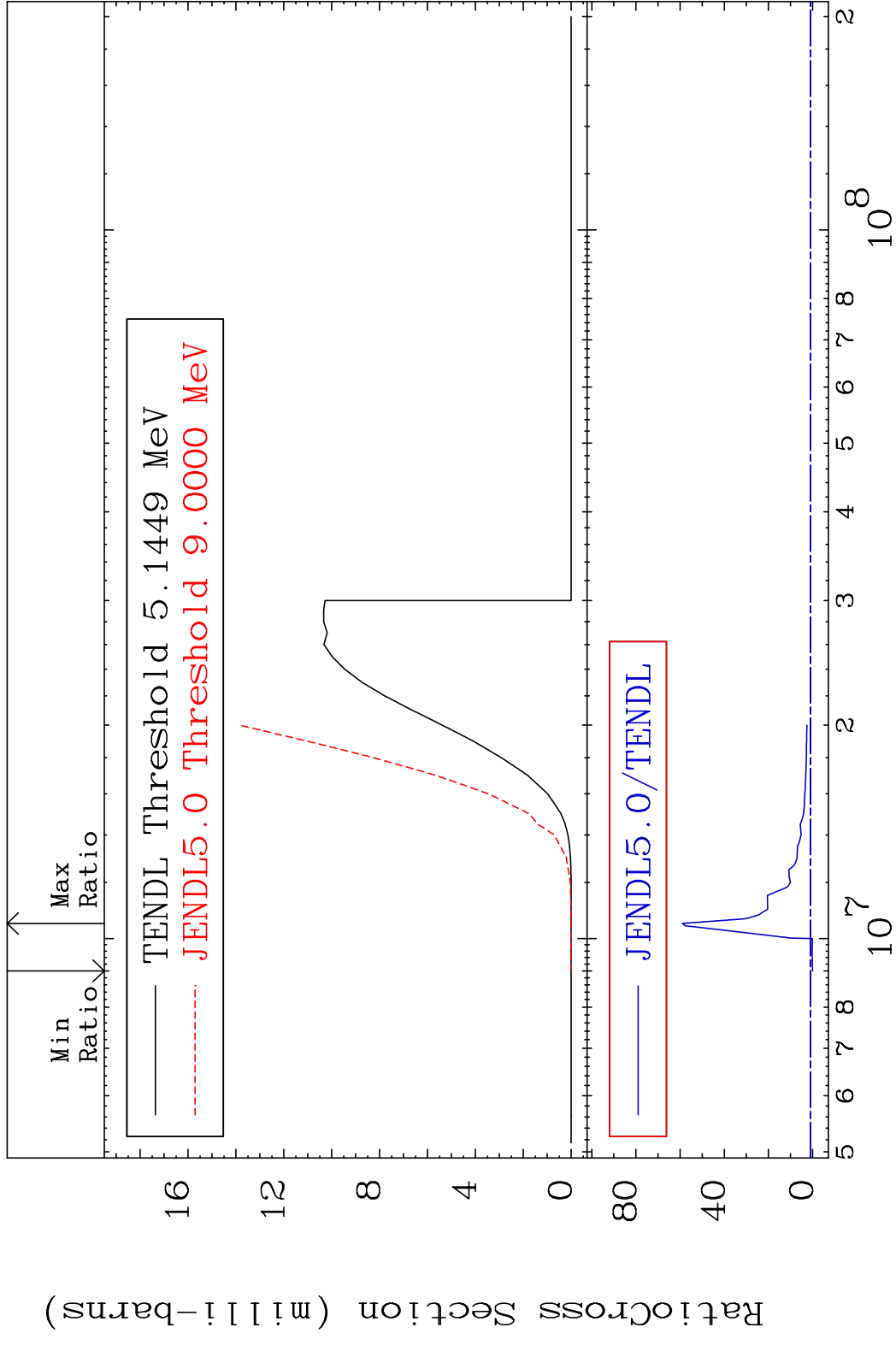


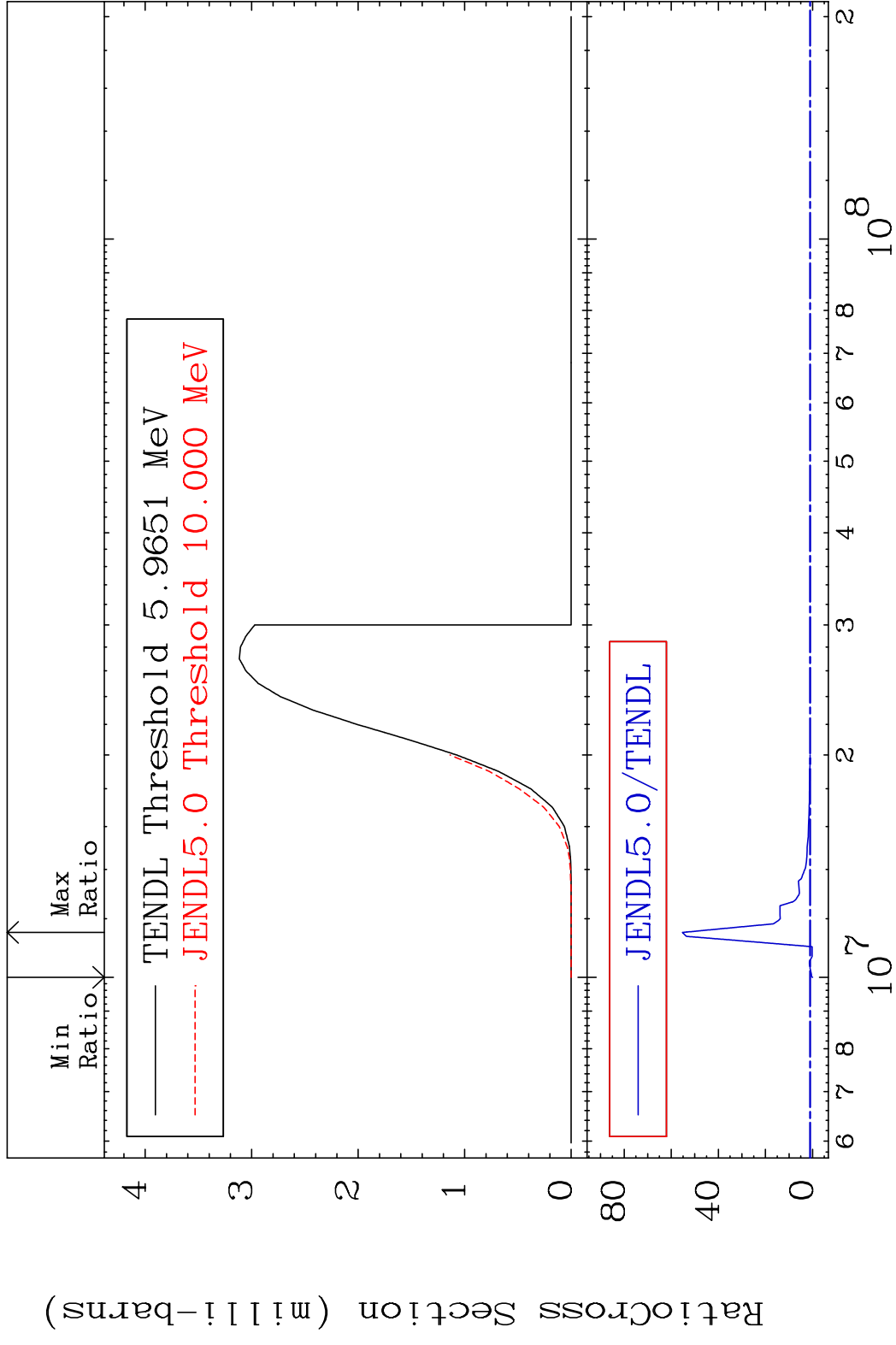




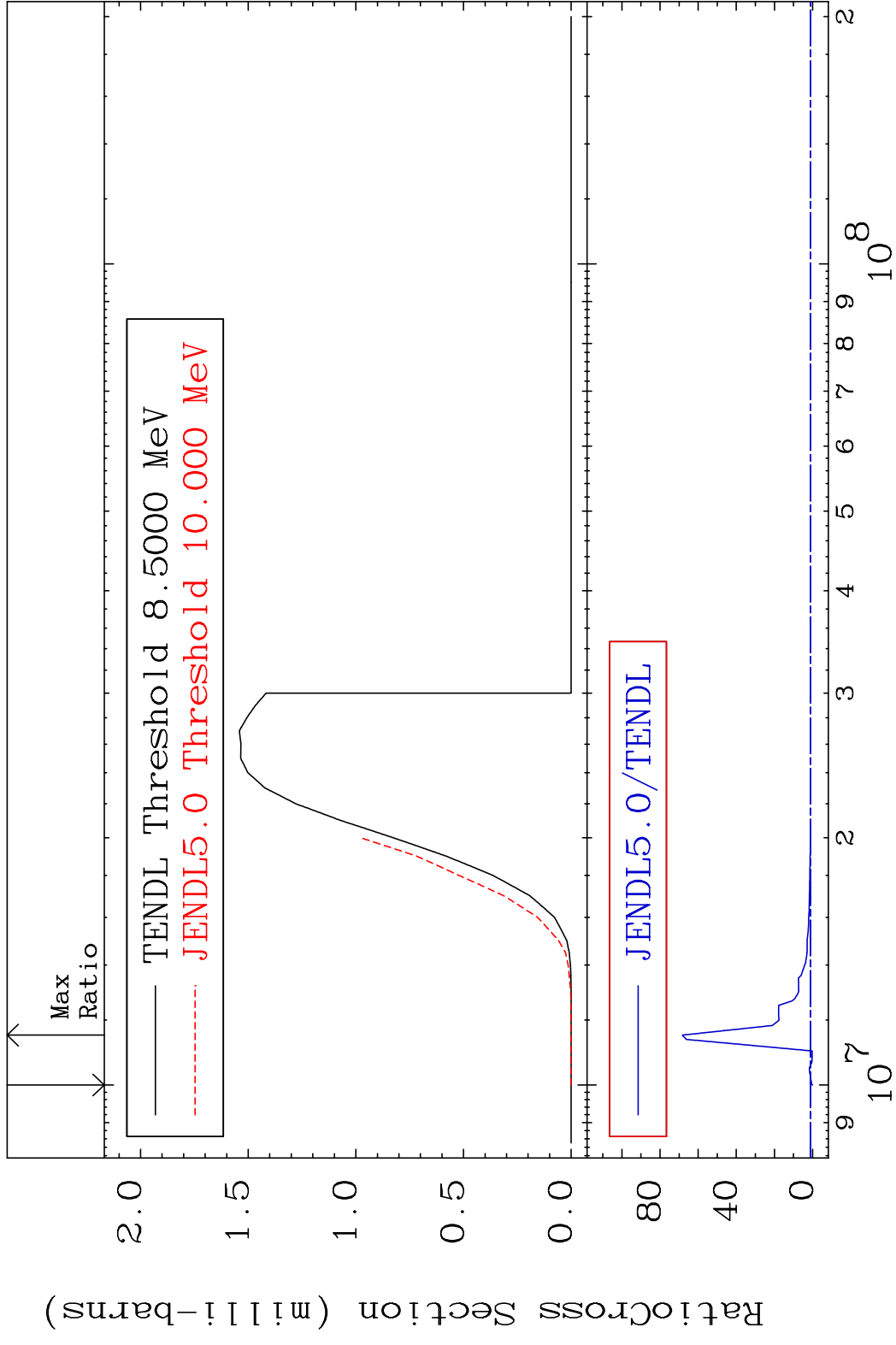


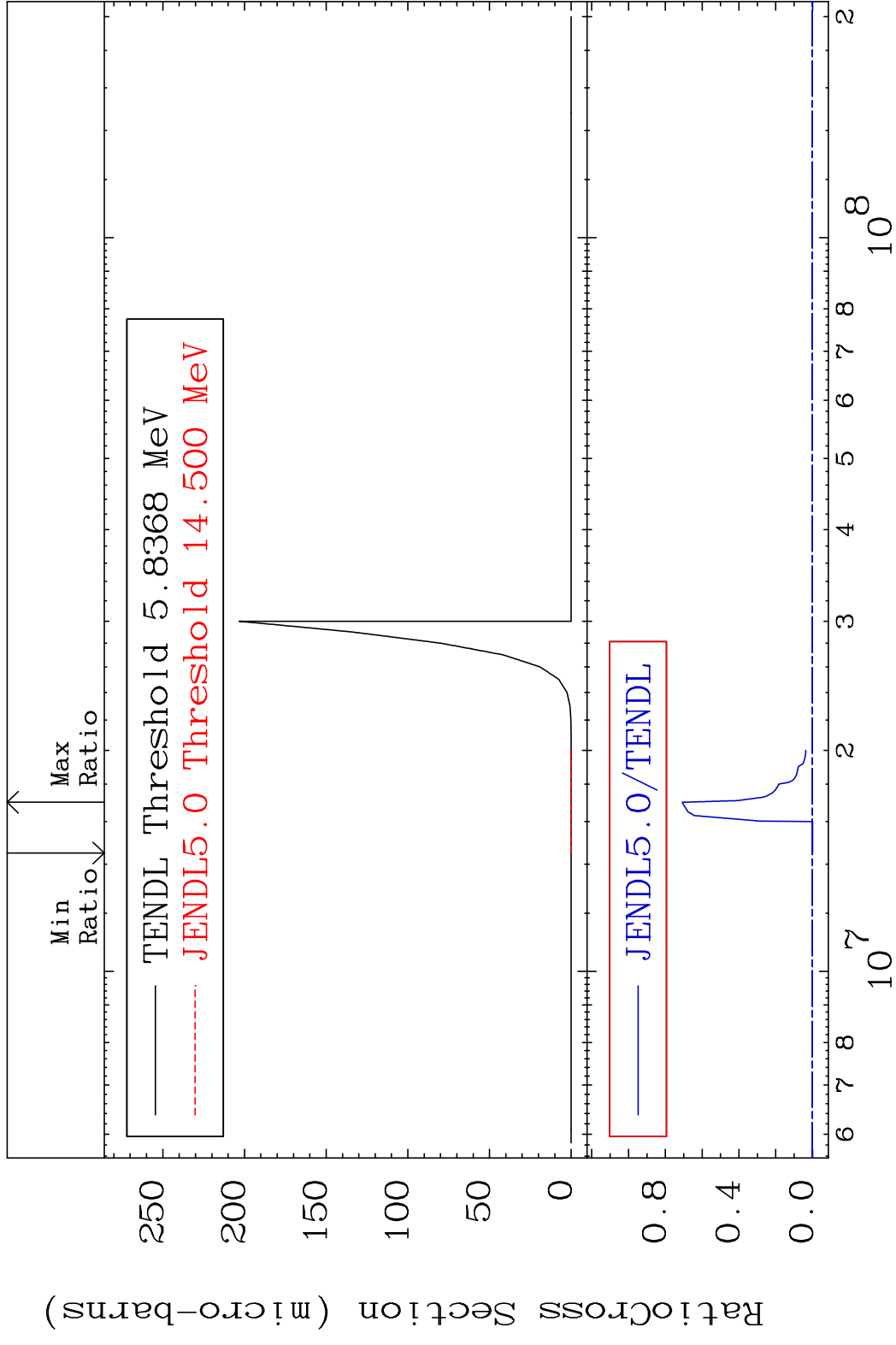


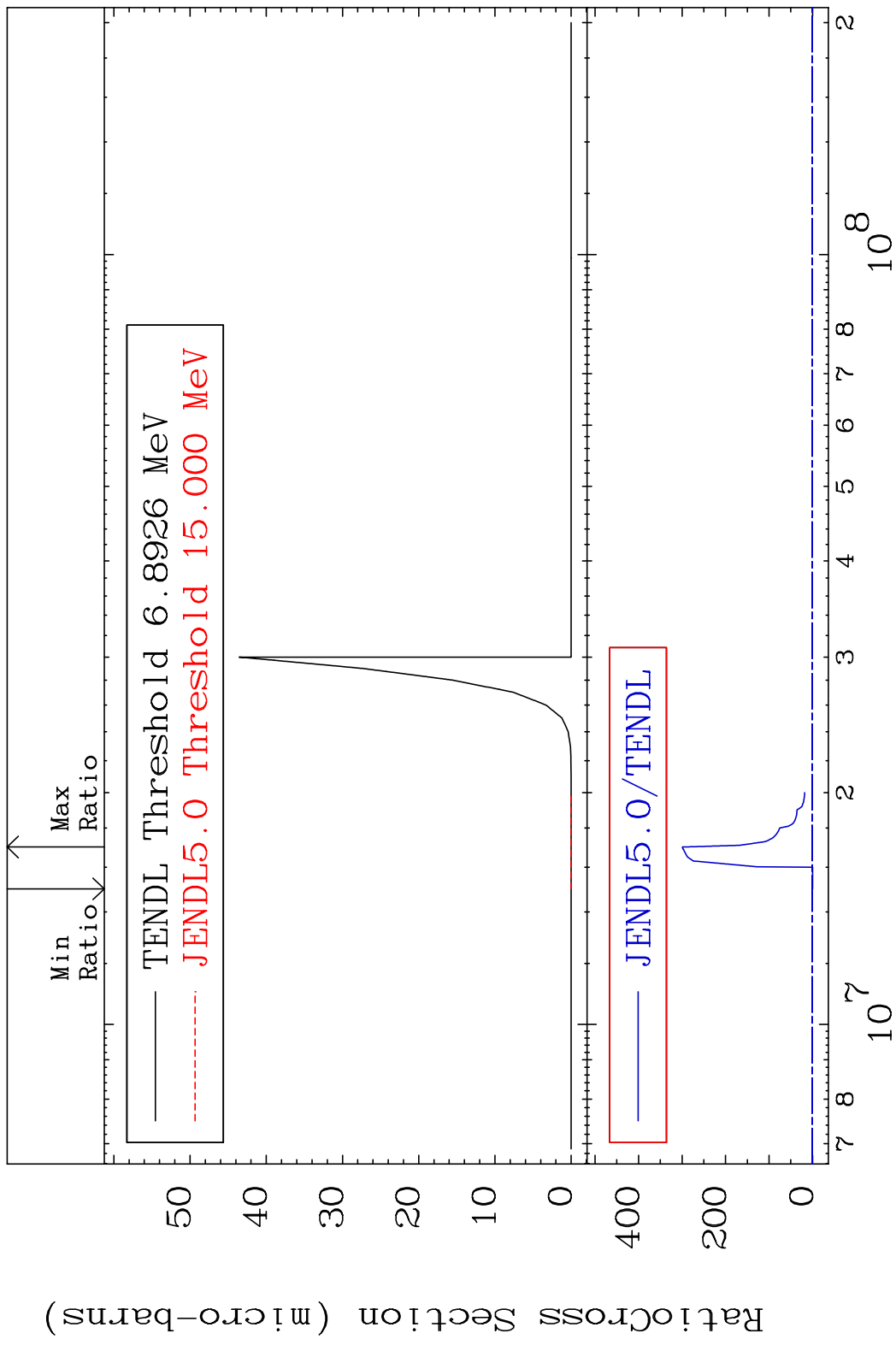


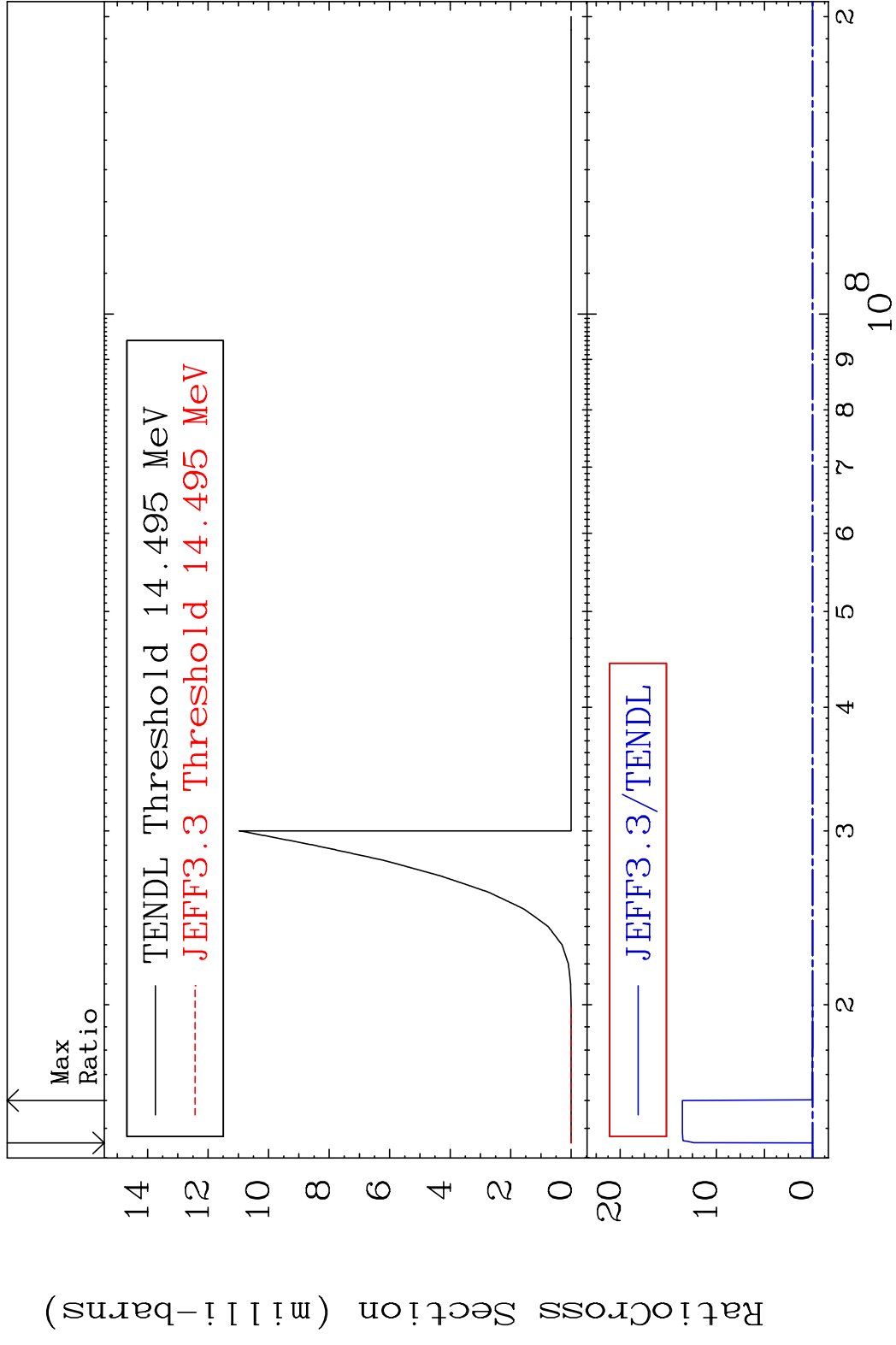


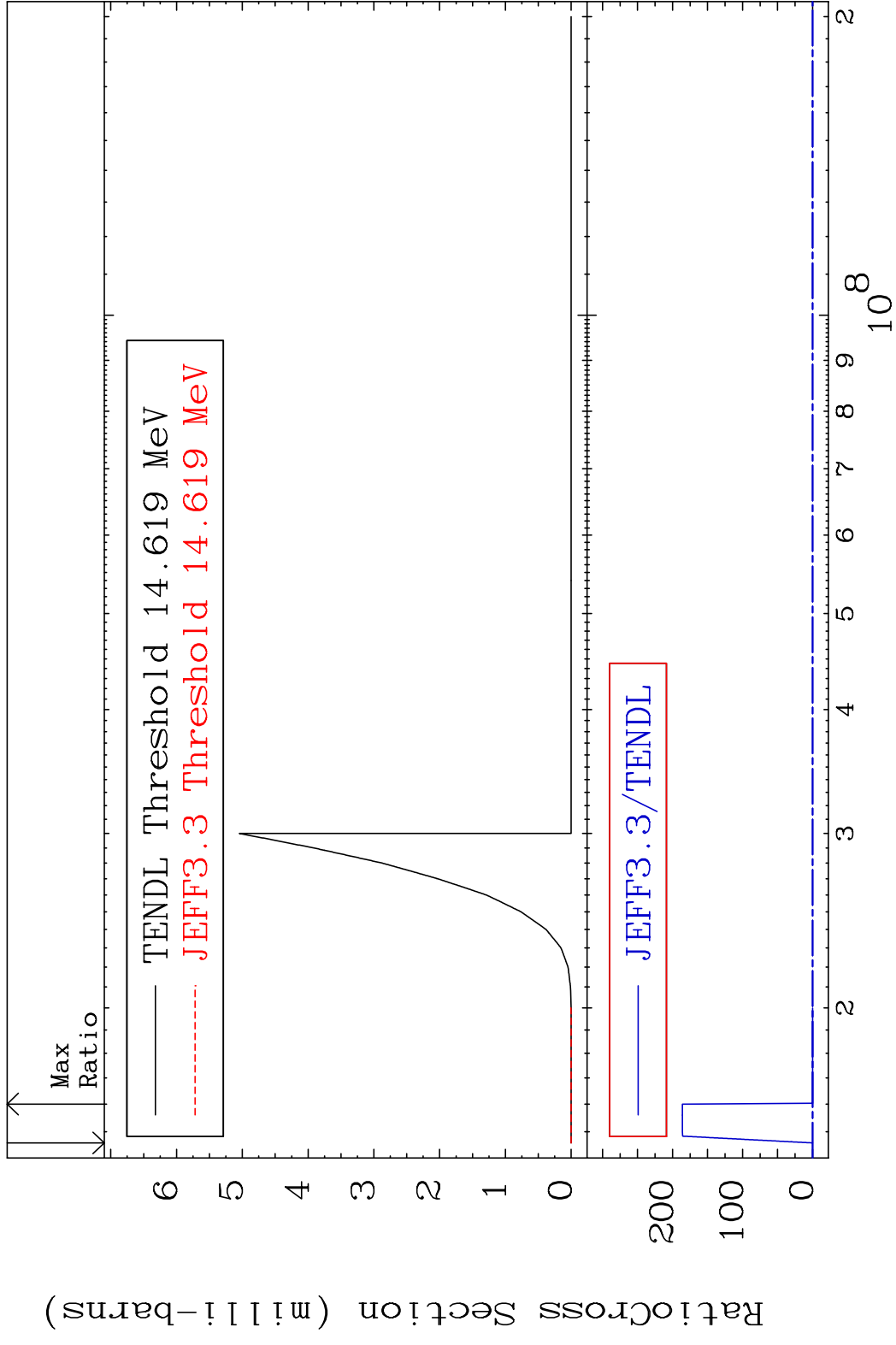
MAT 7237 (n, t):71-Lu-176m1 72-Hf-178
 Radionuclide Production Cross Section 6730. %

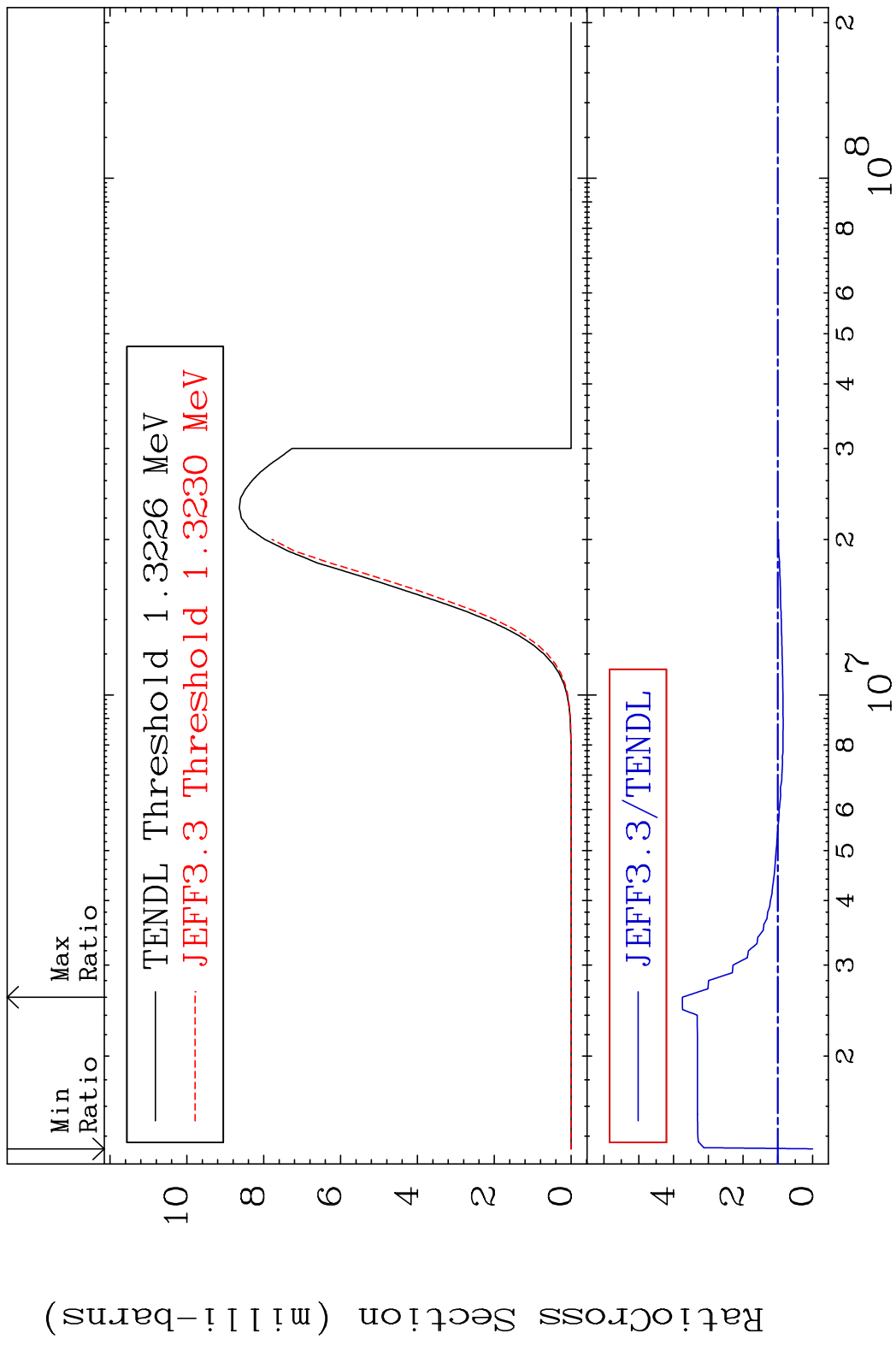


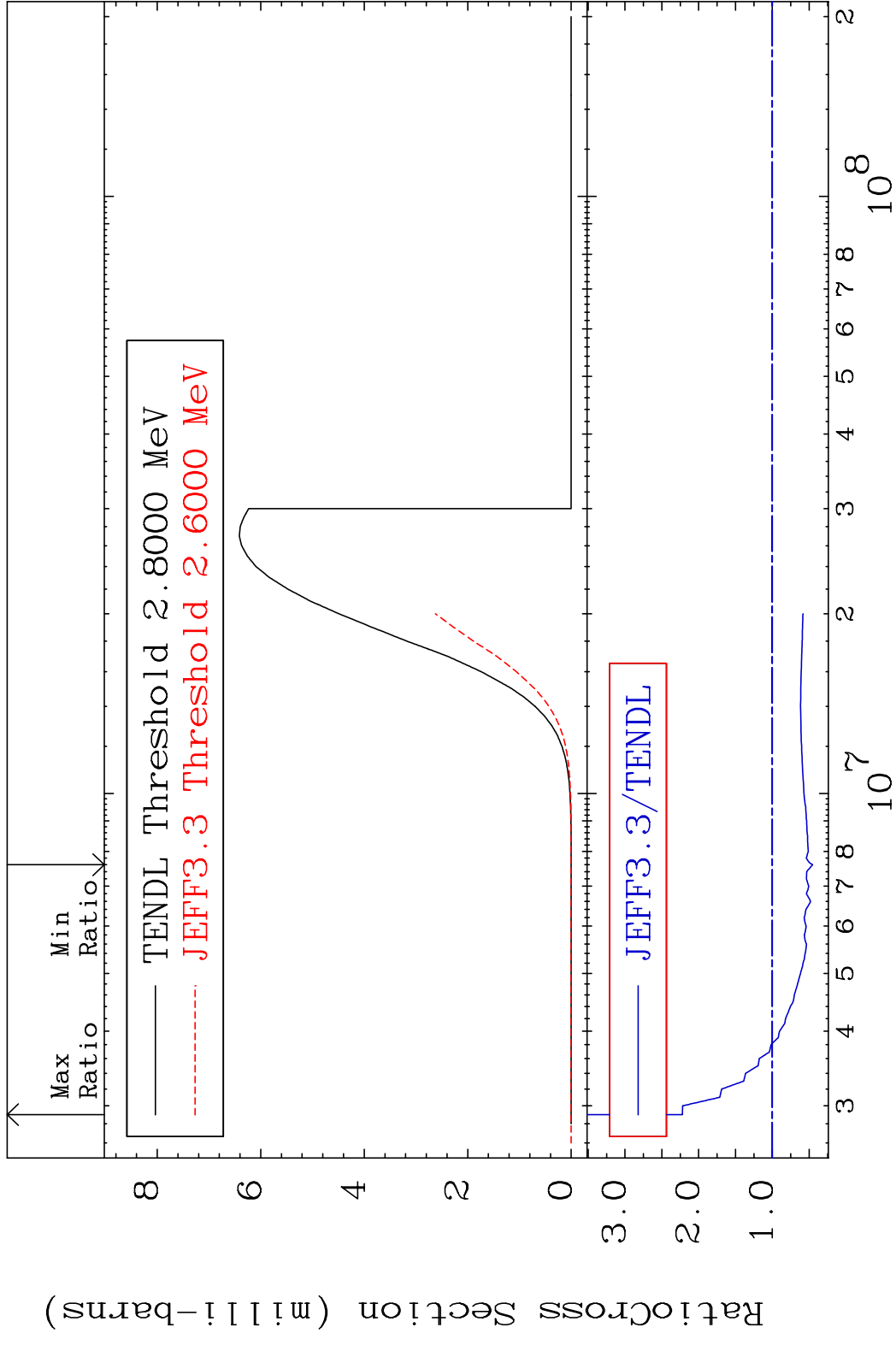




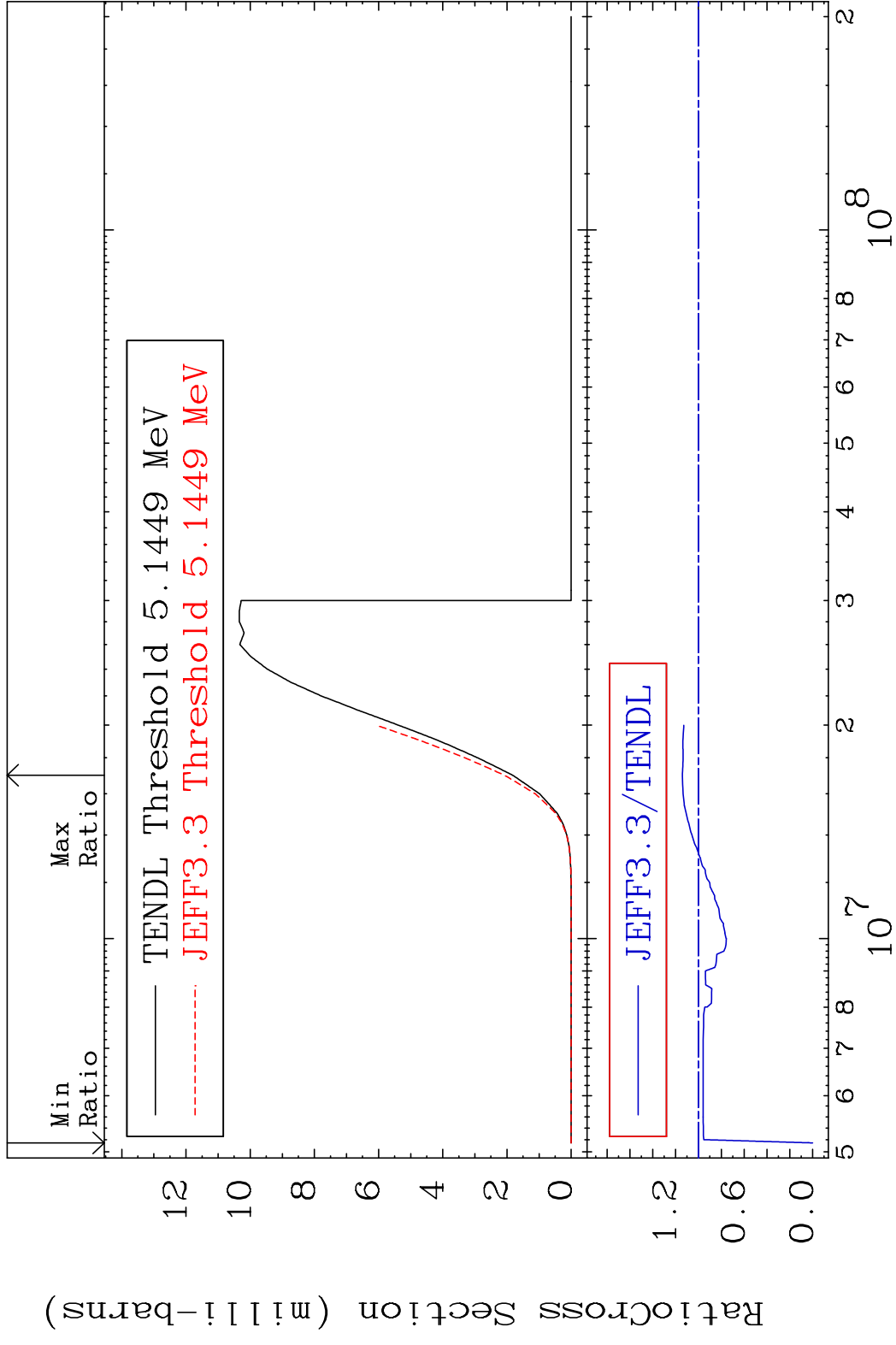








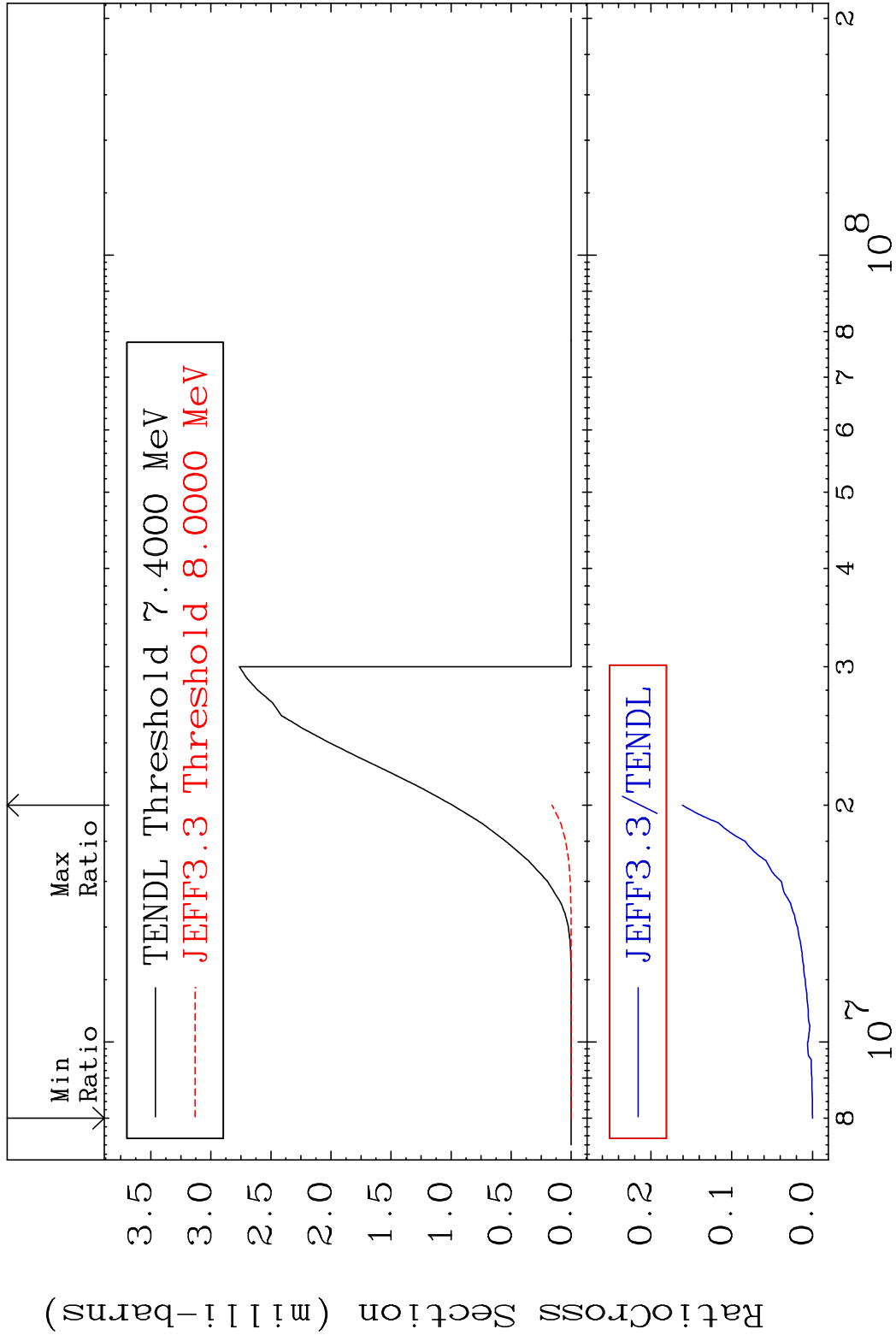
MAT 7237 (n,d):71-Lu-177g 72-Hf-178
 Radionuclide Production Cross Section 18.00 mb 14.11 %



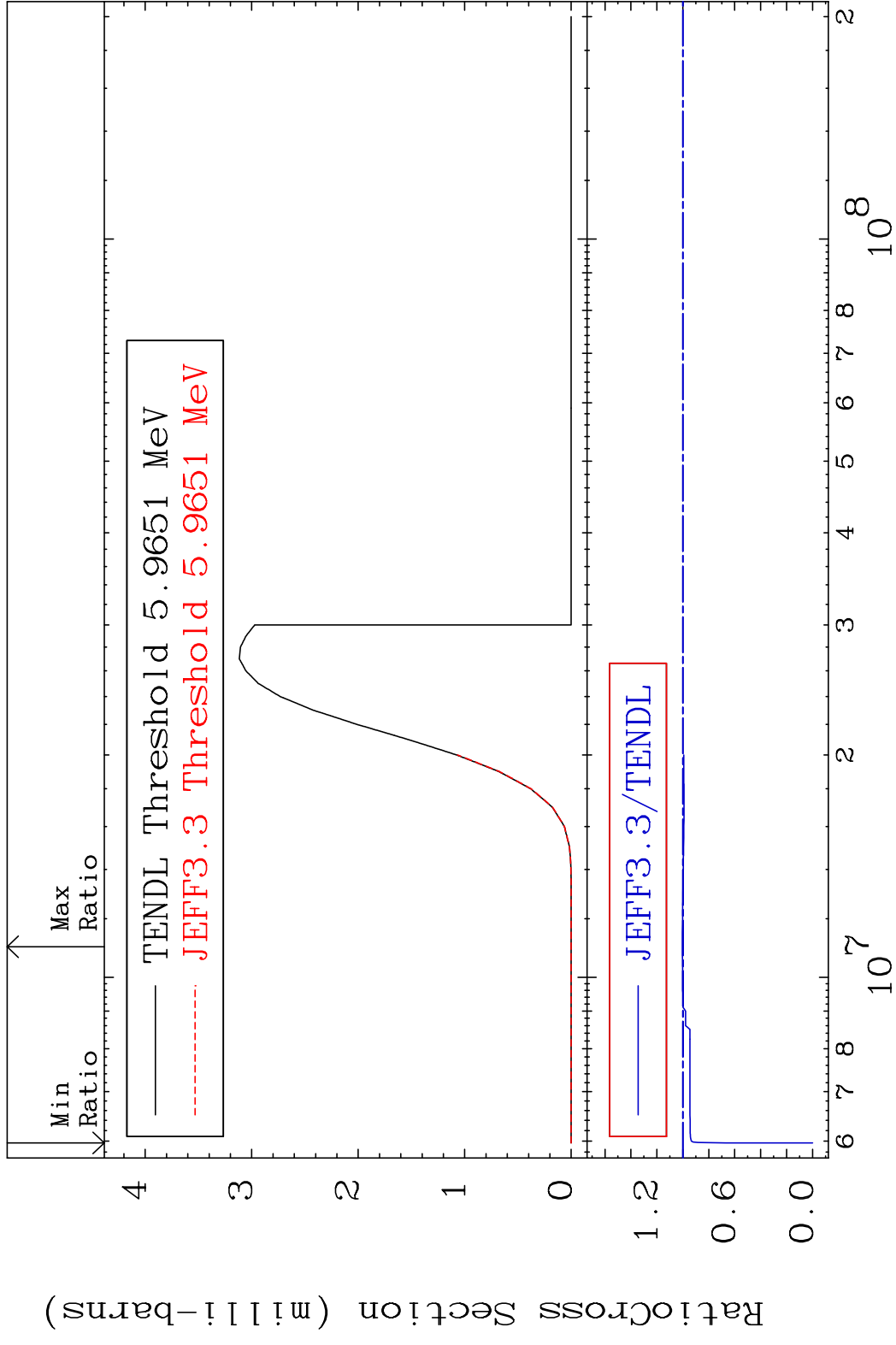
Radionuclide Production Cross Section

180000 dth

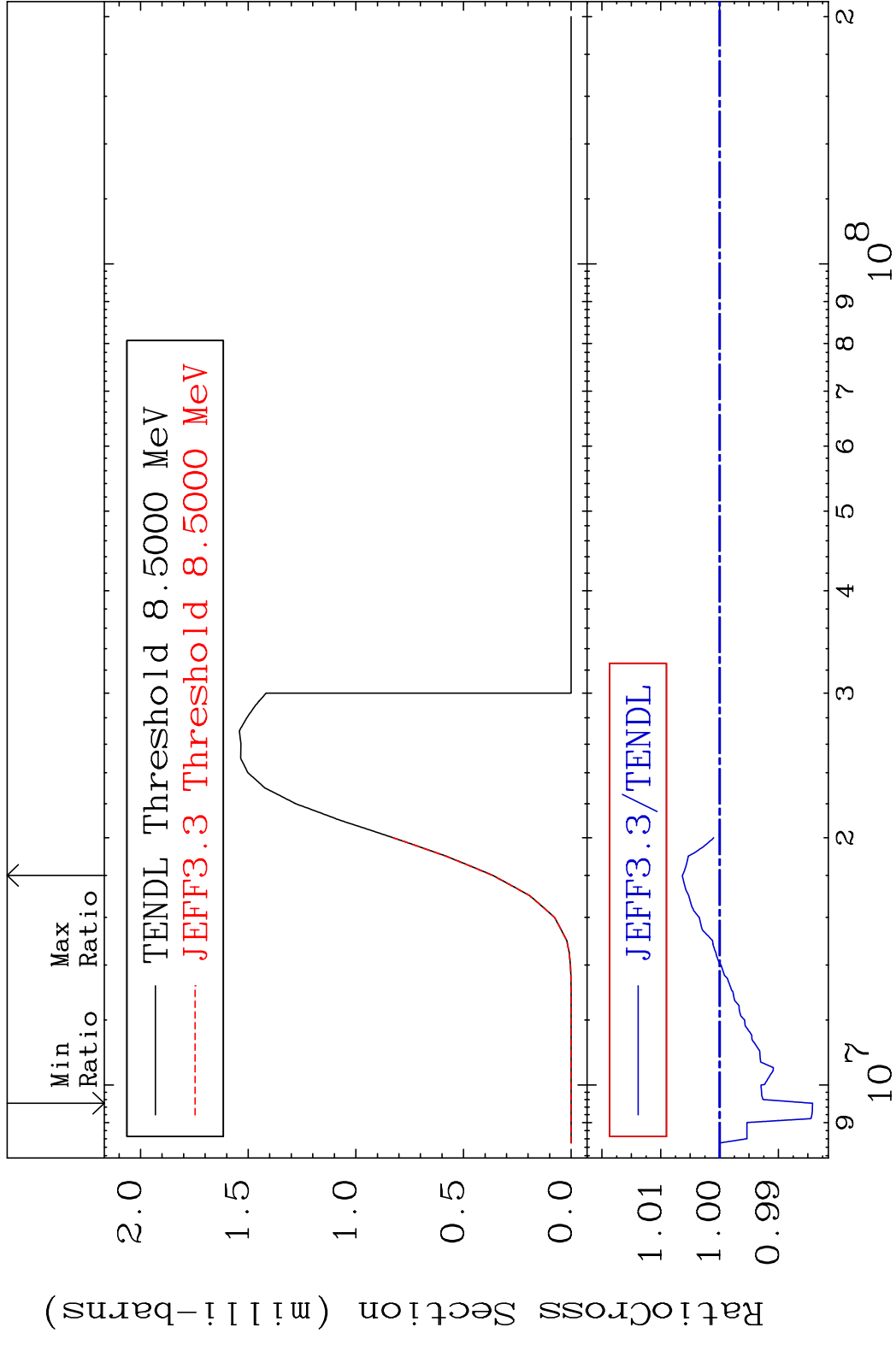
-83.90%



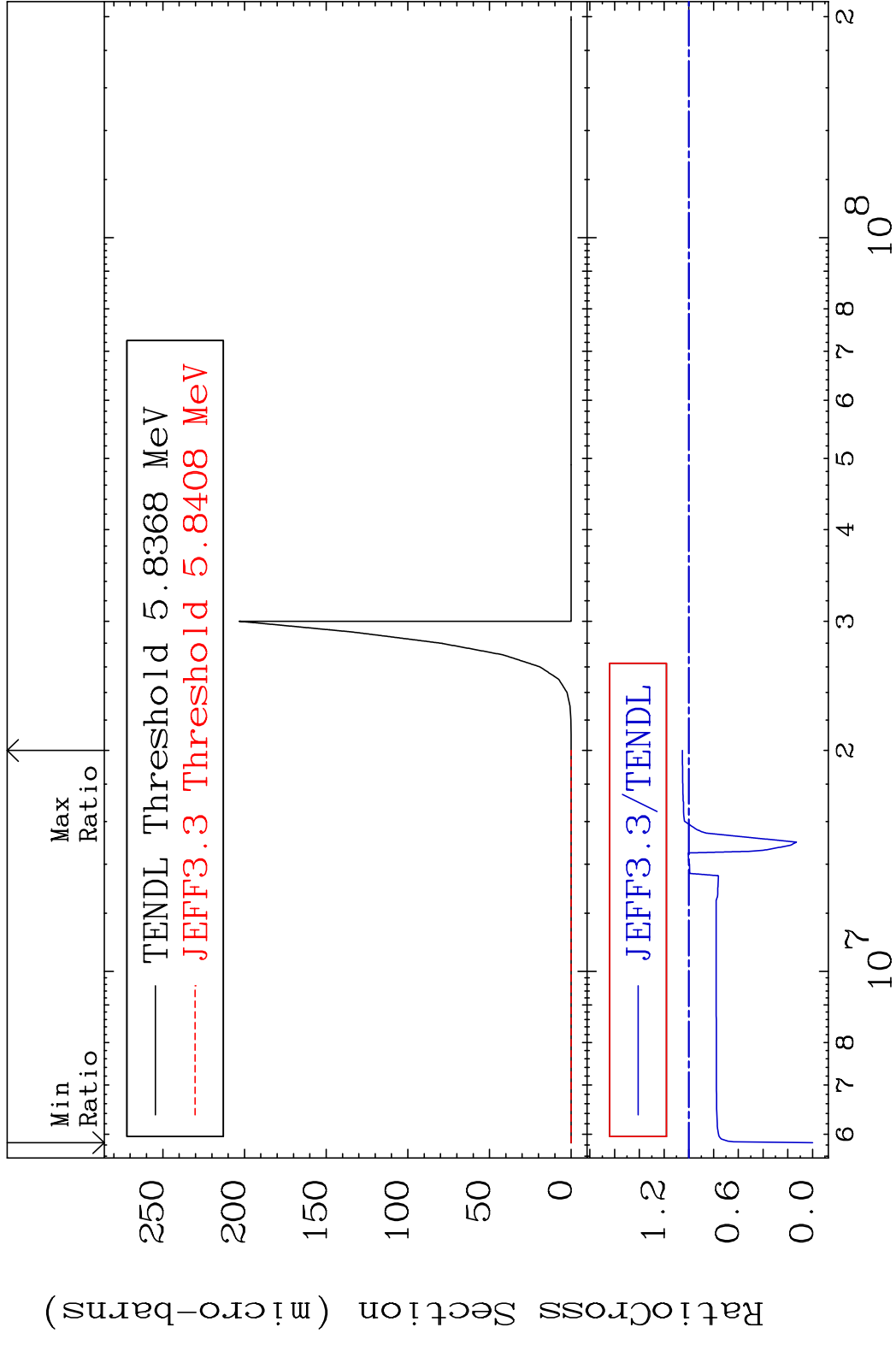
MAT 7237 (n, t): 71-Lu-176g 72-Hf-178
 Radionuclide Production Cross Section 0.357 %



MAT 7237 (n, t): 71-Lu-176m1 72-Hf-178
 Radionuclide Production Cross Section 0.634 %



MAT 7237 (n, He-3): 70-Yb-176g 72-Hf-178
 Radionuclide Production Cross Section Ratio 5.238 %



70 Incident Energy (eV) 72-Hf-178

