

Program Complot
(Version 2021-1)

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

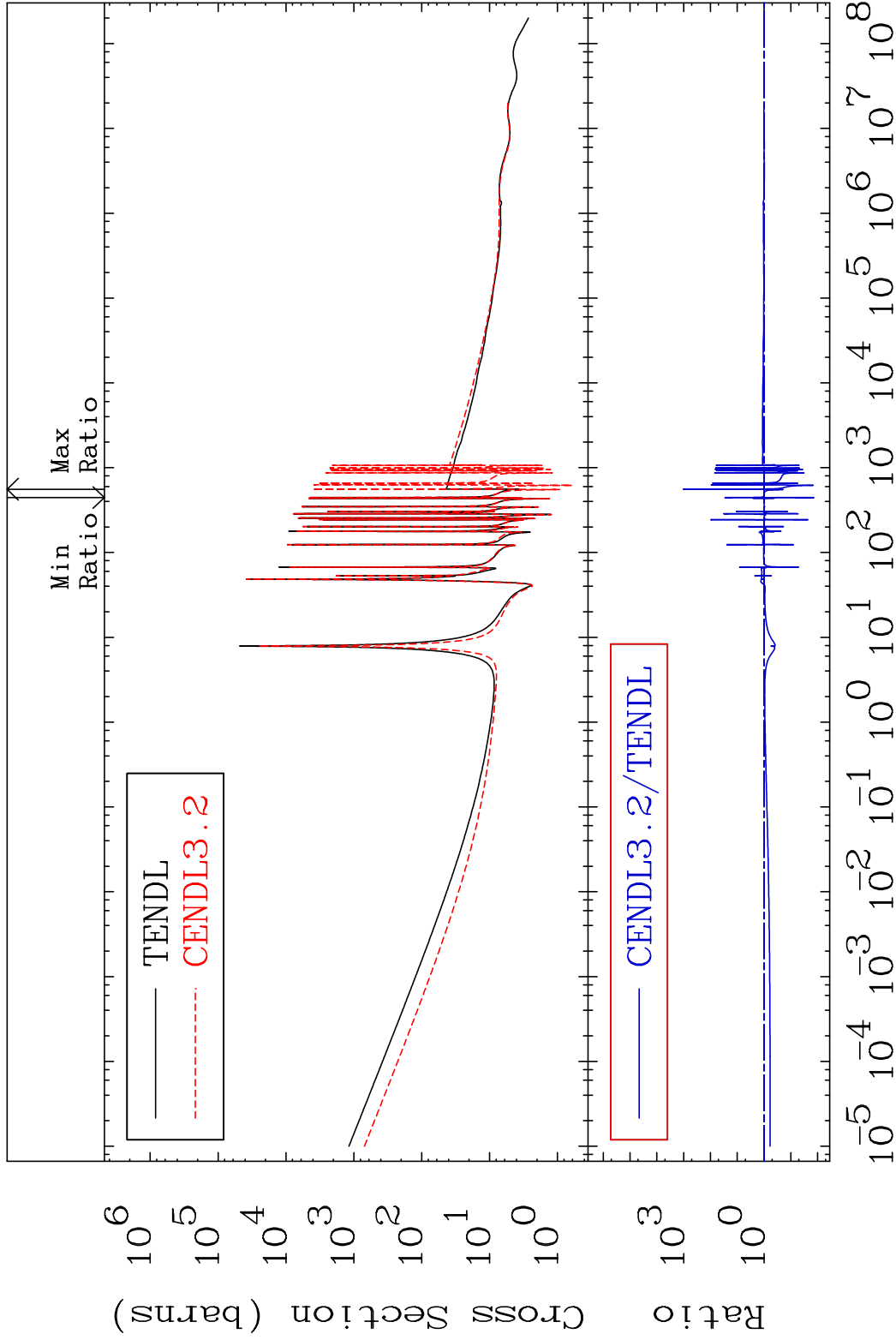
Press Mouse Button to Start

MAT 7231

Total

72-Hf-176

Cross Section -98.62 To 9999. %

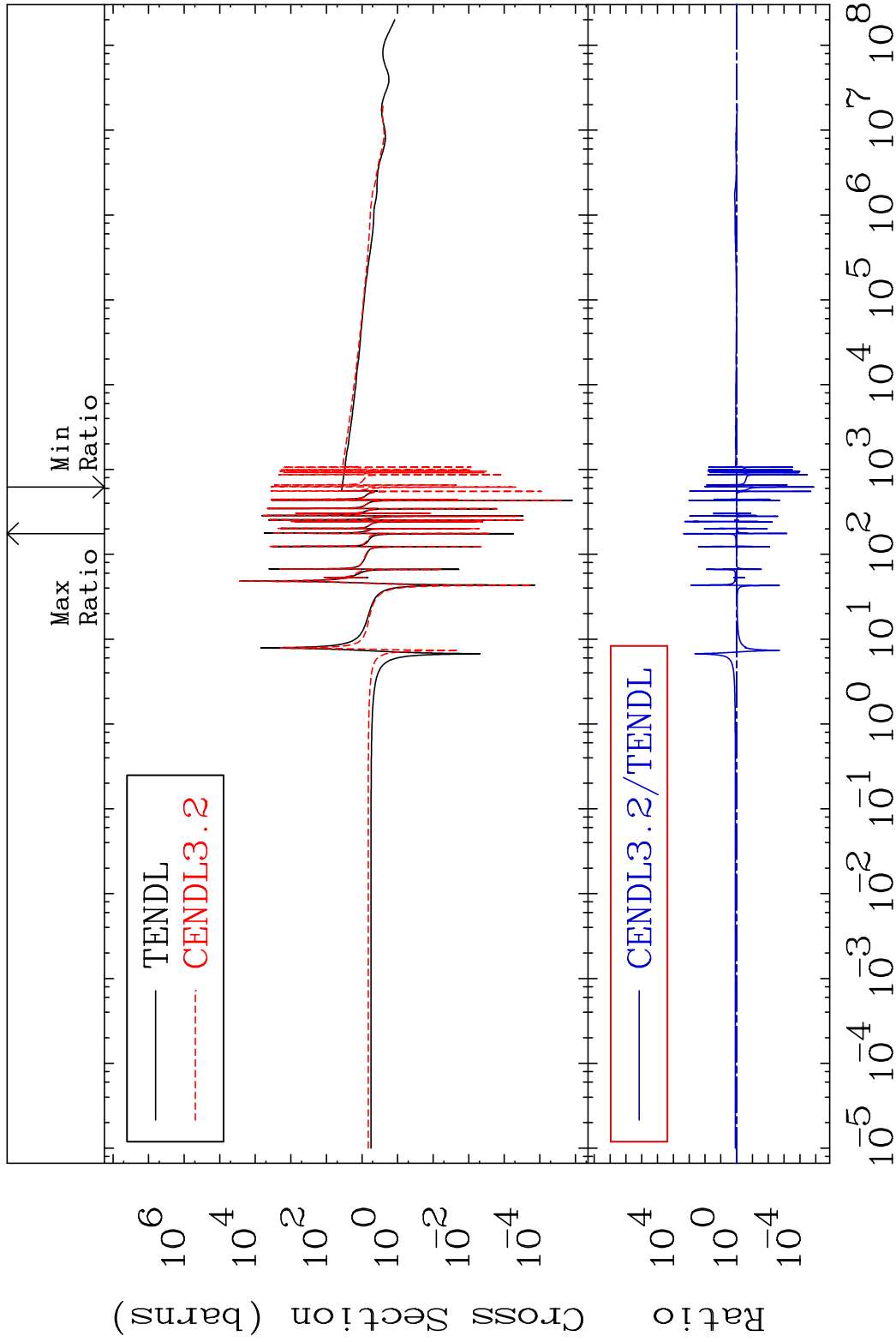


MAT 7231

Elastic

72-Hf-176

Cross Section -100.0 To 9999. %

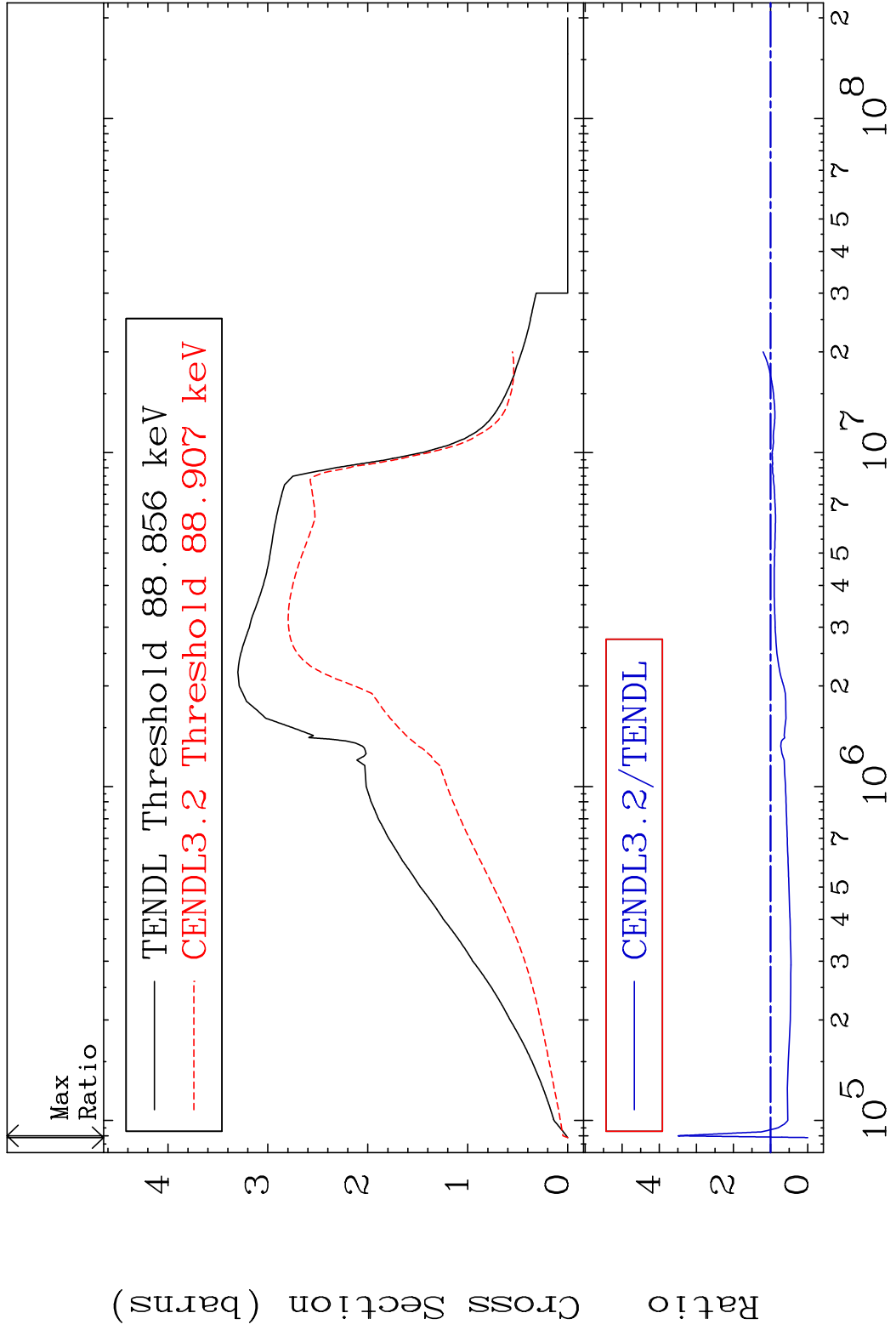


2

Incident Energy (eV)

72-Hf-176

MAT 7231 Inelastic 72-Hf-176
Cross Section -100.0 To 248.7 %



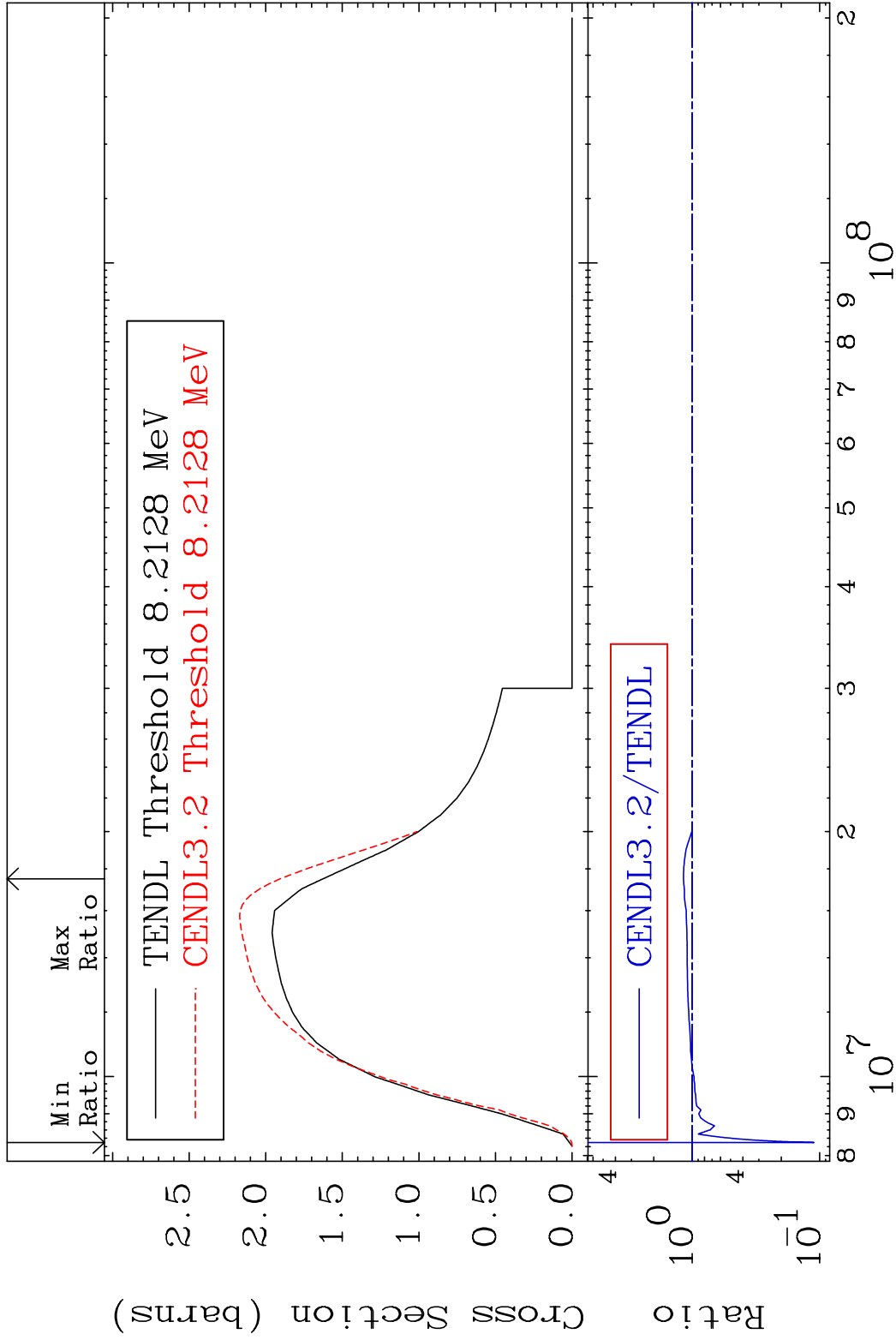
3 Incident Energy (eV) 72-Hf-176

MAT 7231

(n,2n)

72-Hf-176

Cross Section -88.89 To 17.23 %

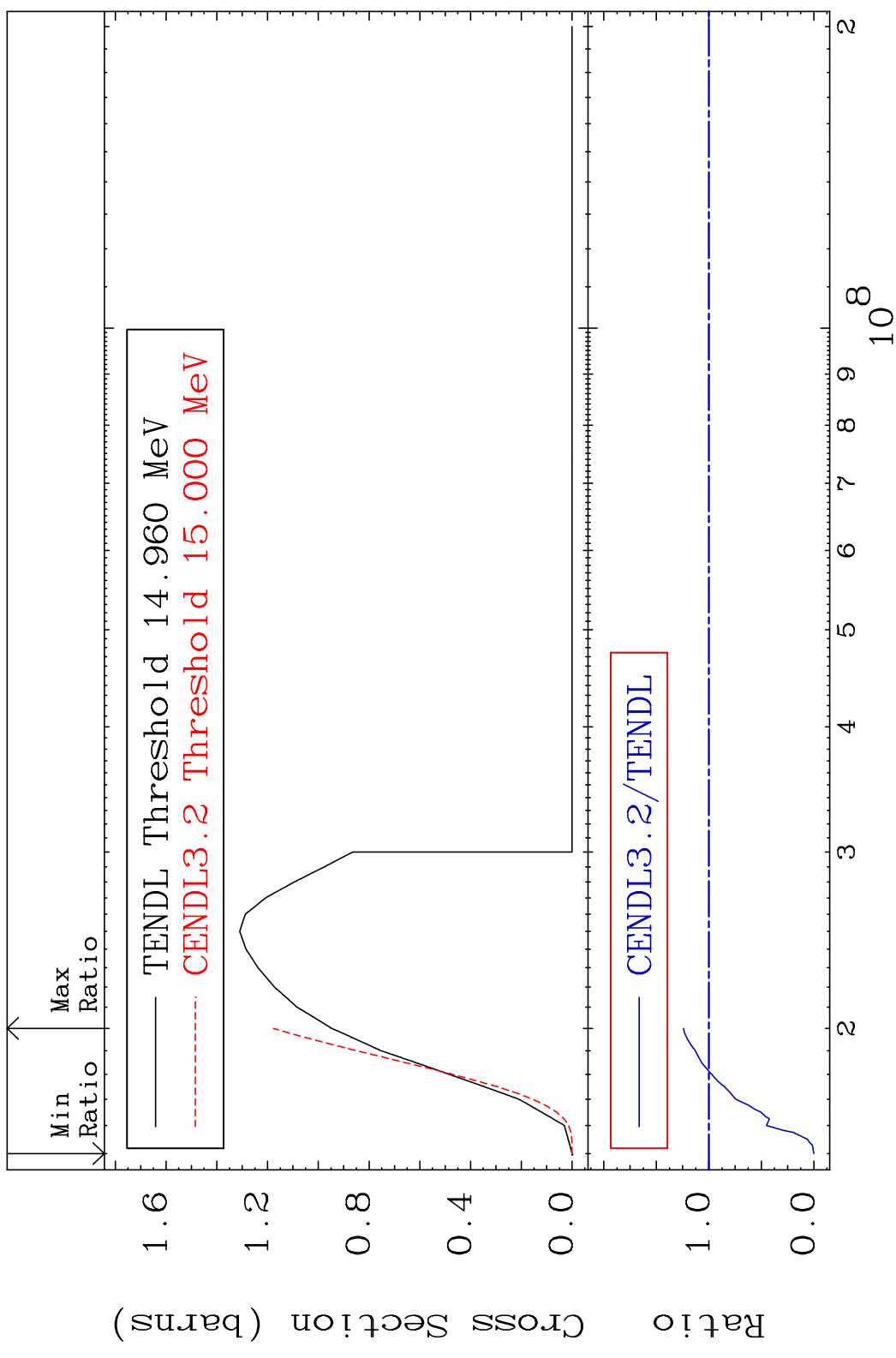


4

Incident Energy (eV)

72-Hf-176

MAT 7231 (n,3n) 72-Hf-176
 Cross Section -100.0 To 24.20 %

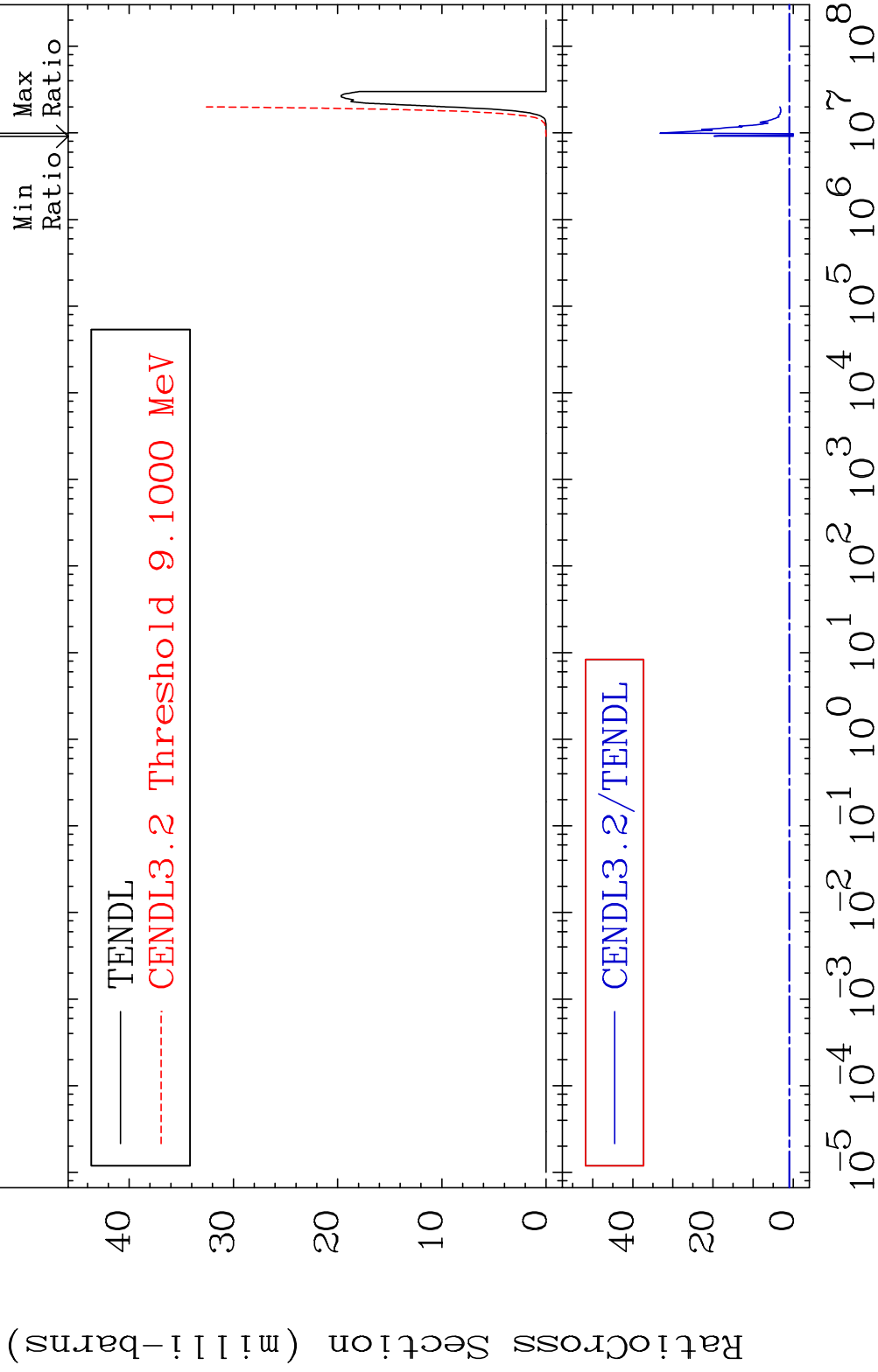


MAT 7231

(n, n') α

72-Hf-176

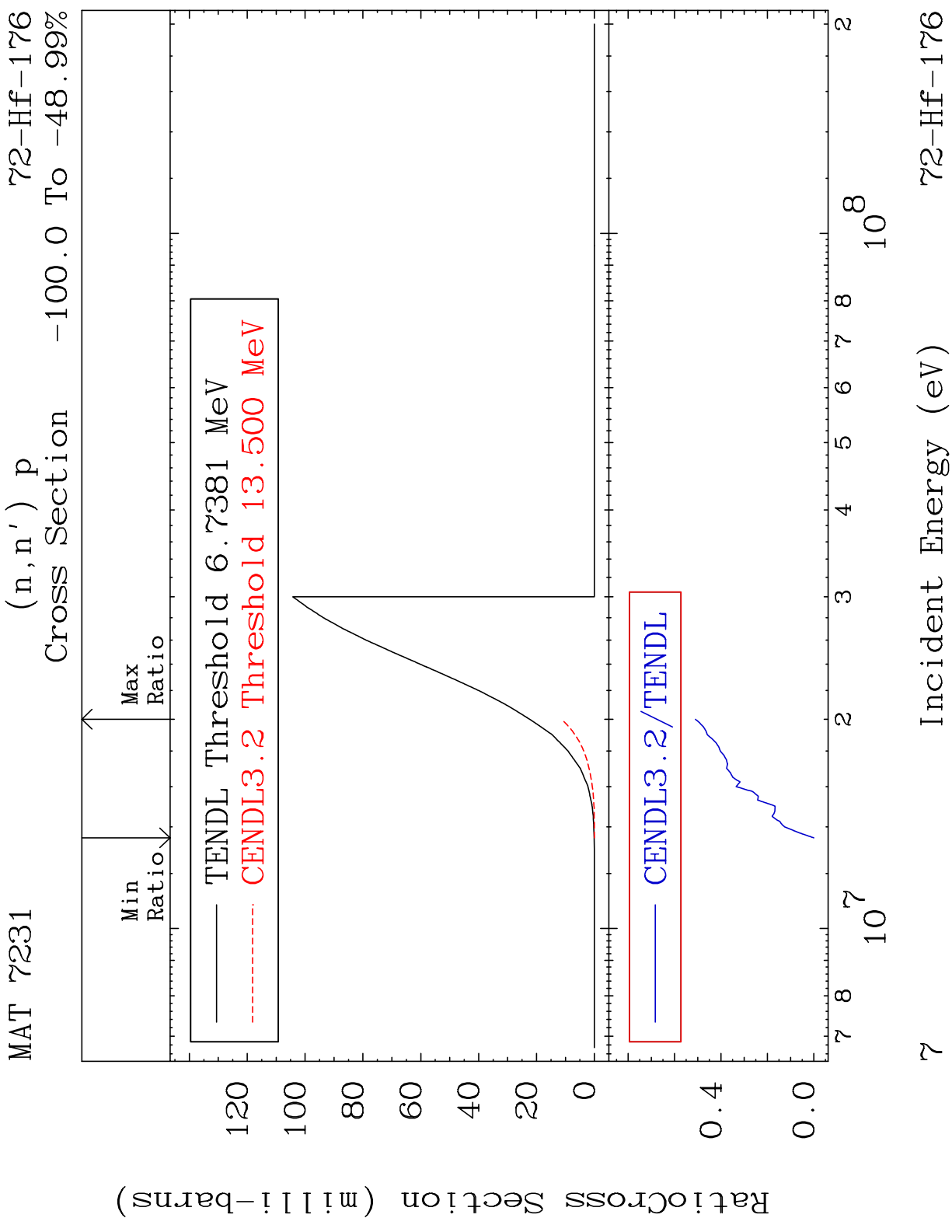
Cross Section -100.0 To 3223. %



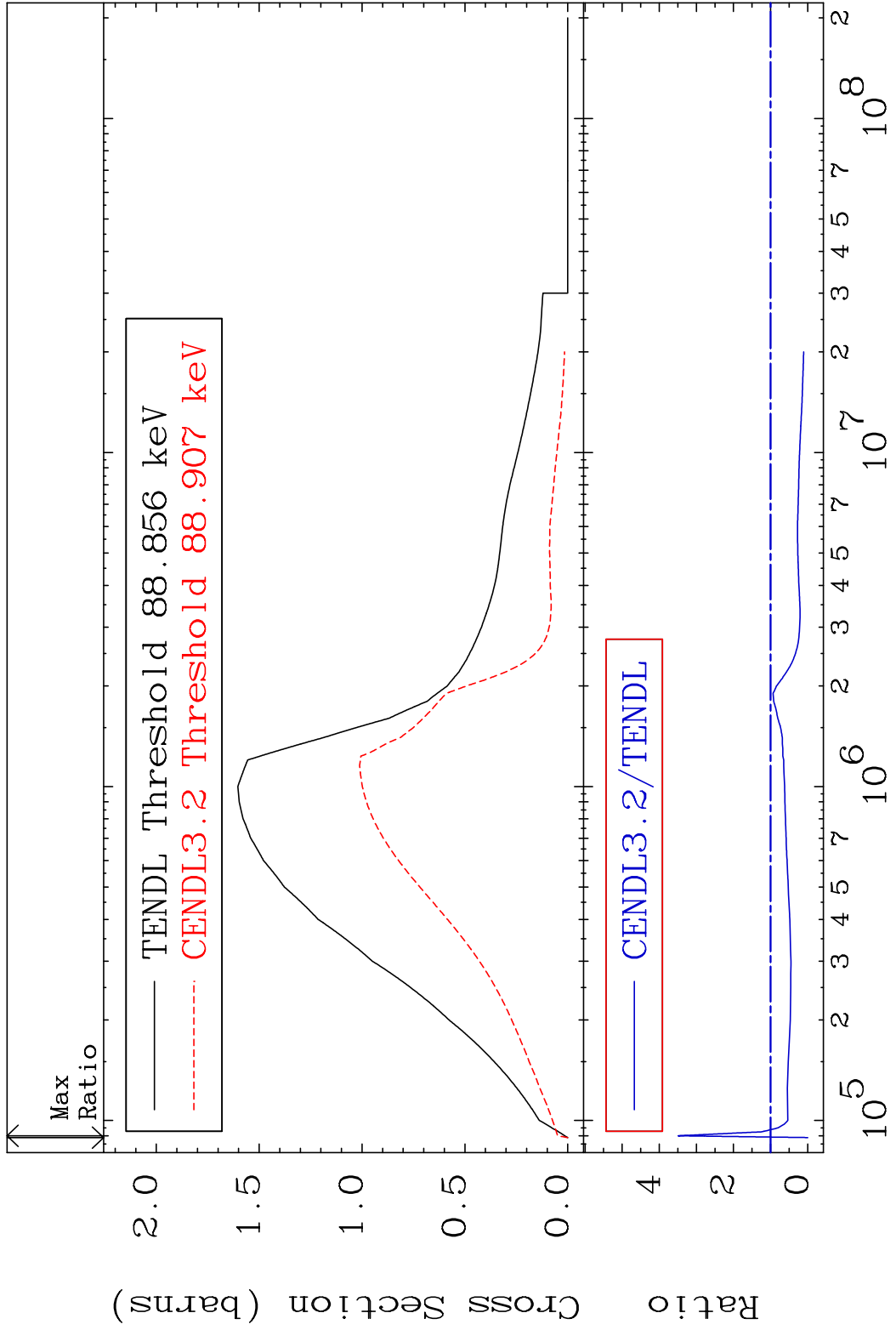
6

Incident Energy (eV)

72-Hf-176

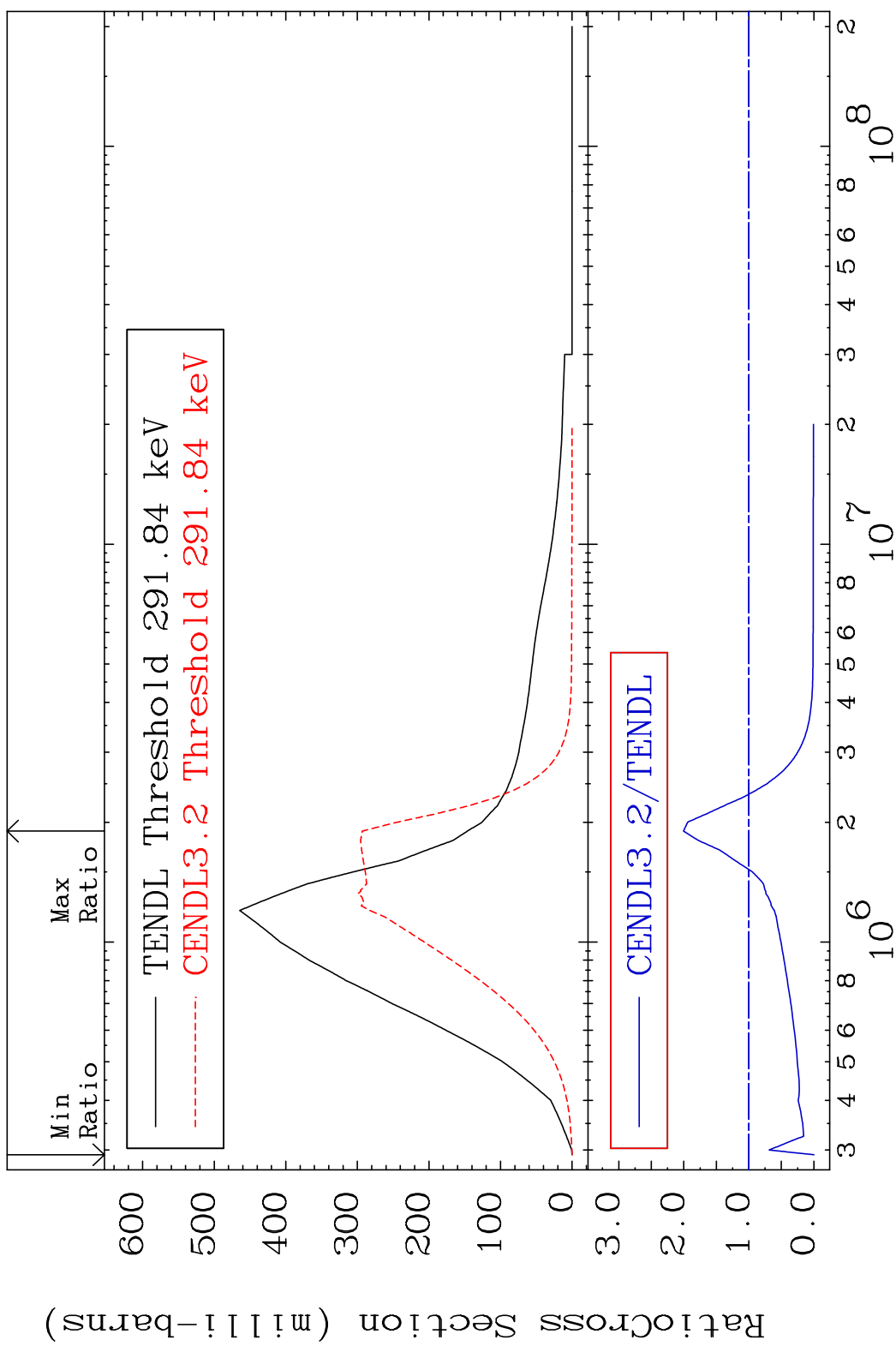


MAT 7231 MT= 51 (n, n') Level 72-Hf-176
 Cross Section -100.0 To 248.7 %

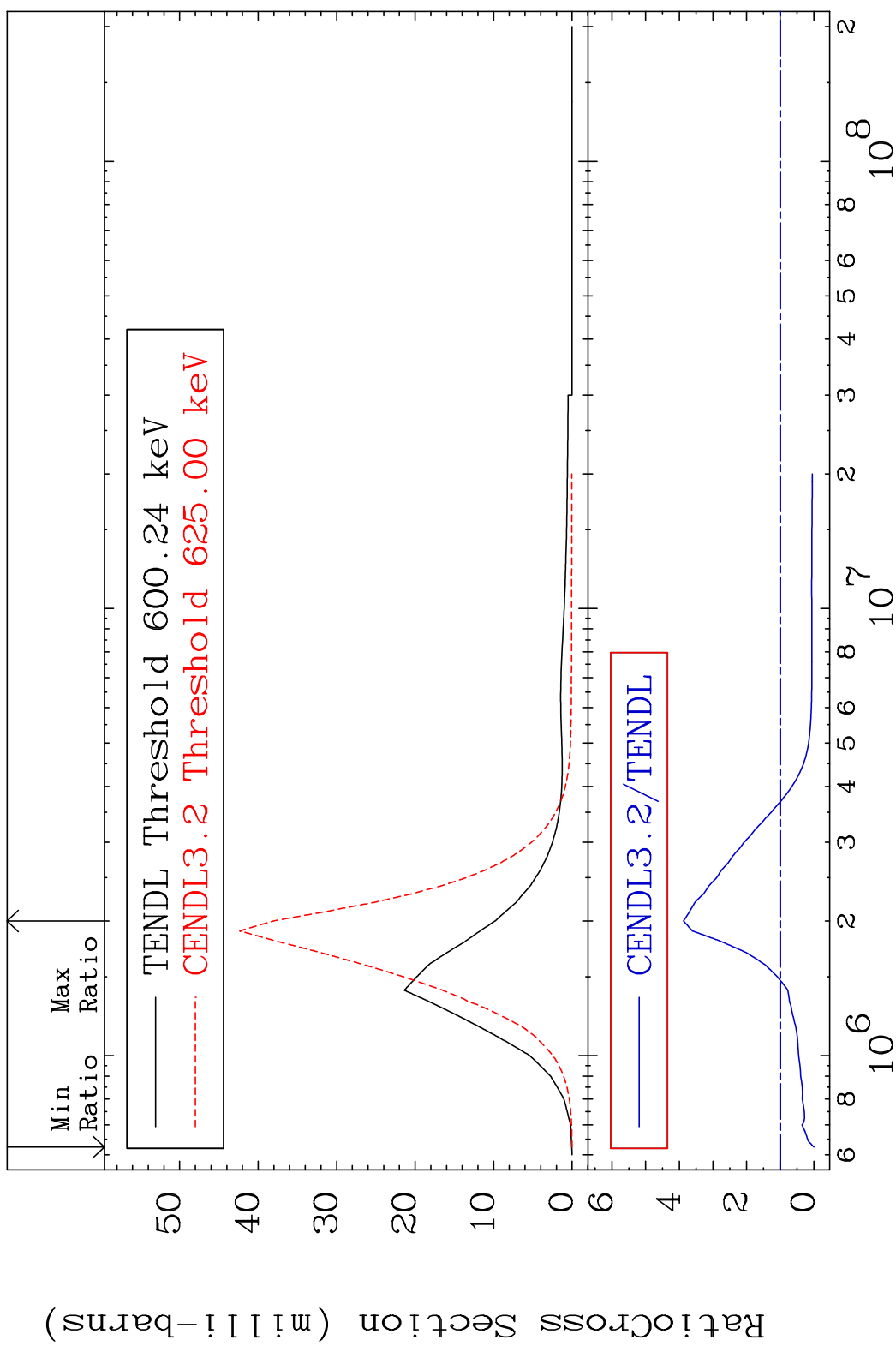


8 Incident Energy (eV) 72-Hf-176

MAT 7231 MT= 52 (n, n') Level 72-Hf-176
 Cross Section -100.0 To 100.5 %

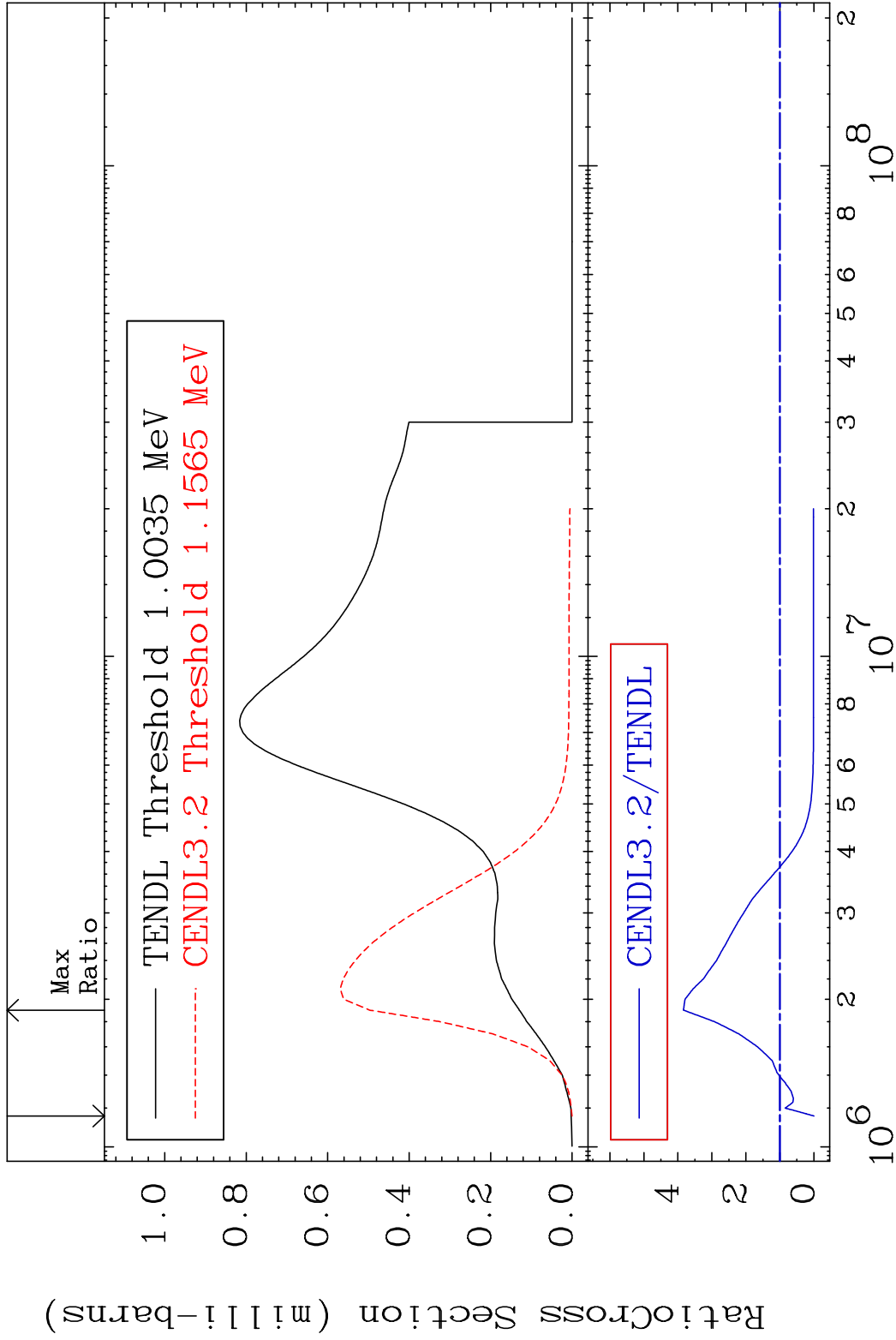


MAT 7231 MT= 53 (n, n') Level 72-Hf-176
 Cross Section -100.0 To 287.6 %



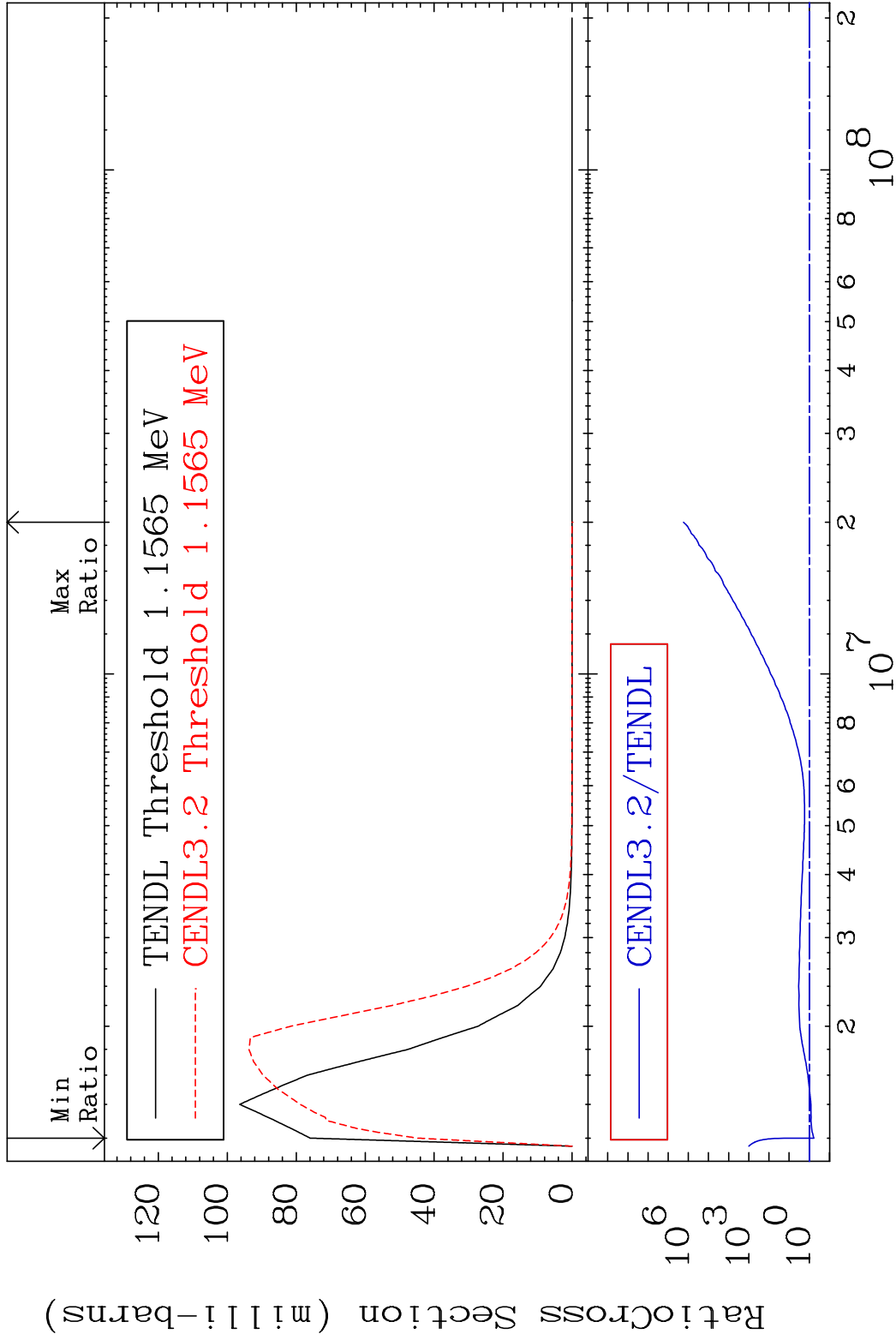
10 Incident Energy (eV) 72-Hf-176

MAT 7231 MT= 54 (n, n') Level 72-Hf-176
 Cross Section -100.0 To 283.6 %



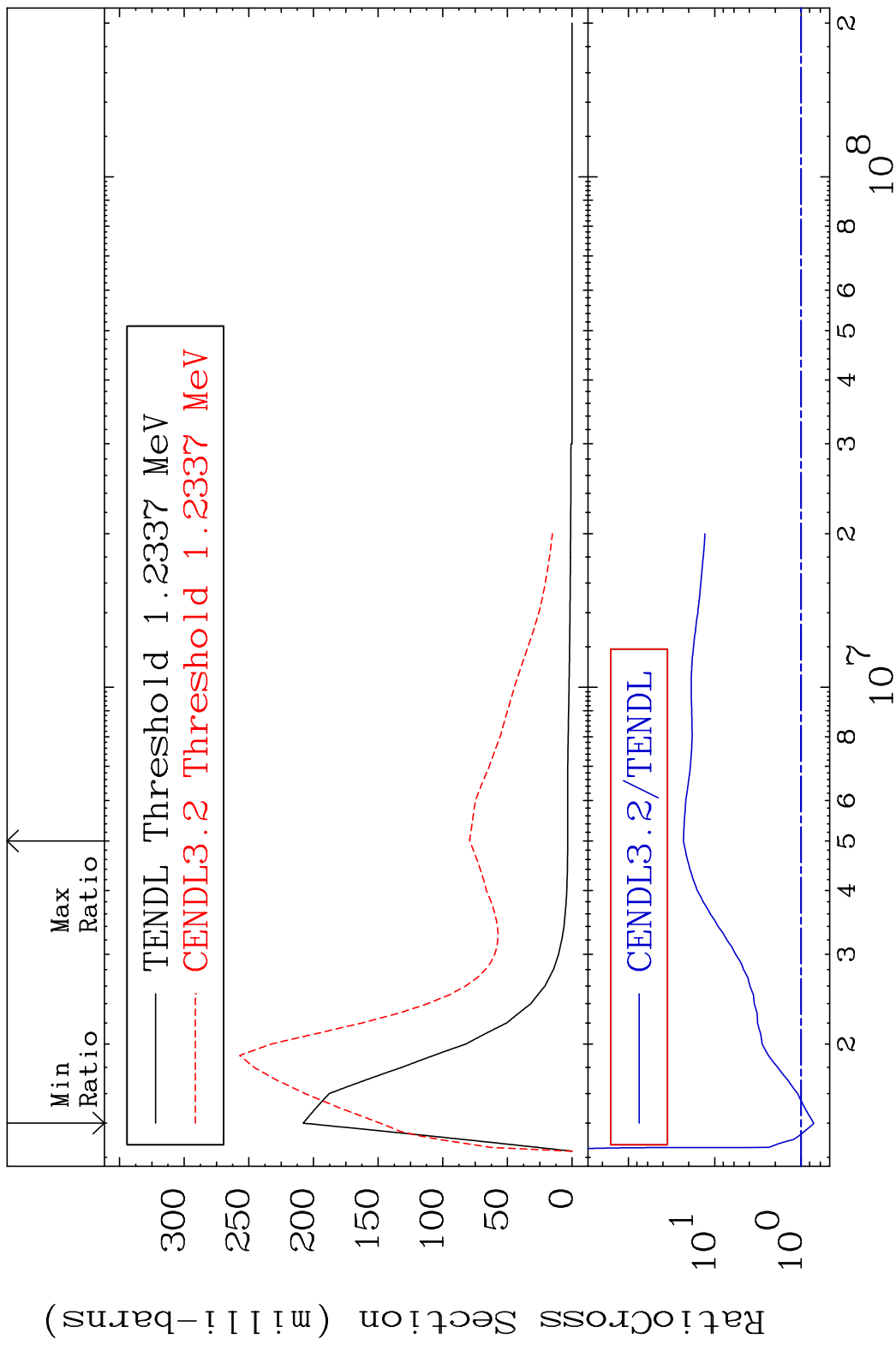
11 Incident Energy (eV) 72-Hf-176

MAT 7231 MT= 55 (n, n') Level 72-Hf-176
 Cross Section -41.00 To 9999. %

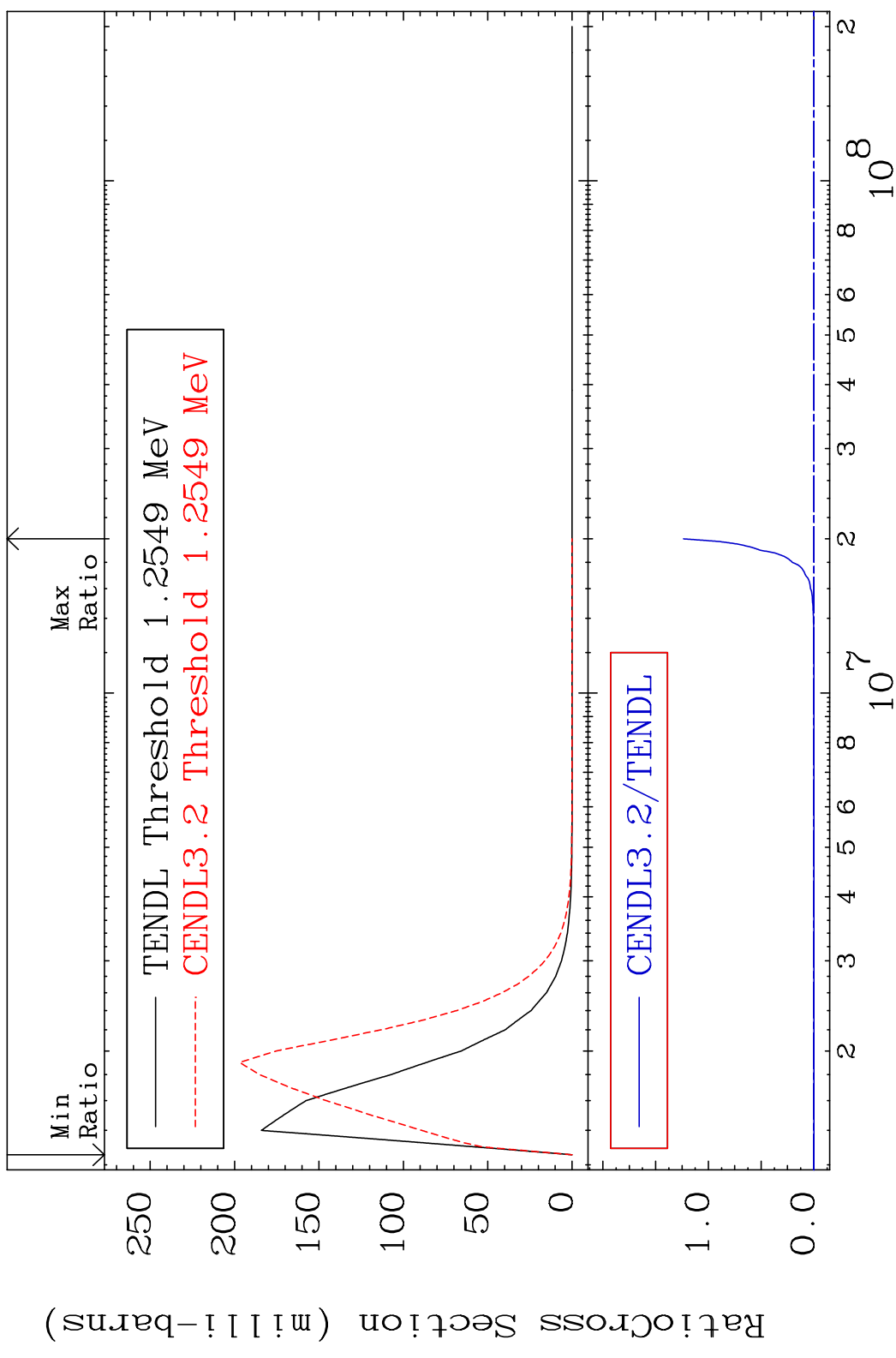


12 Incident Energy (eV) 72-Hf-176

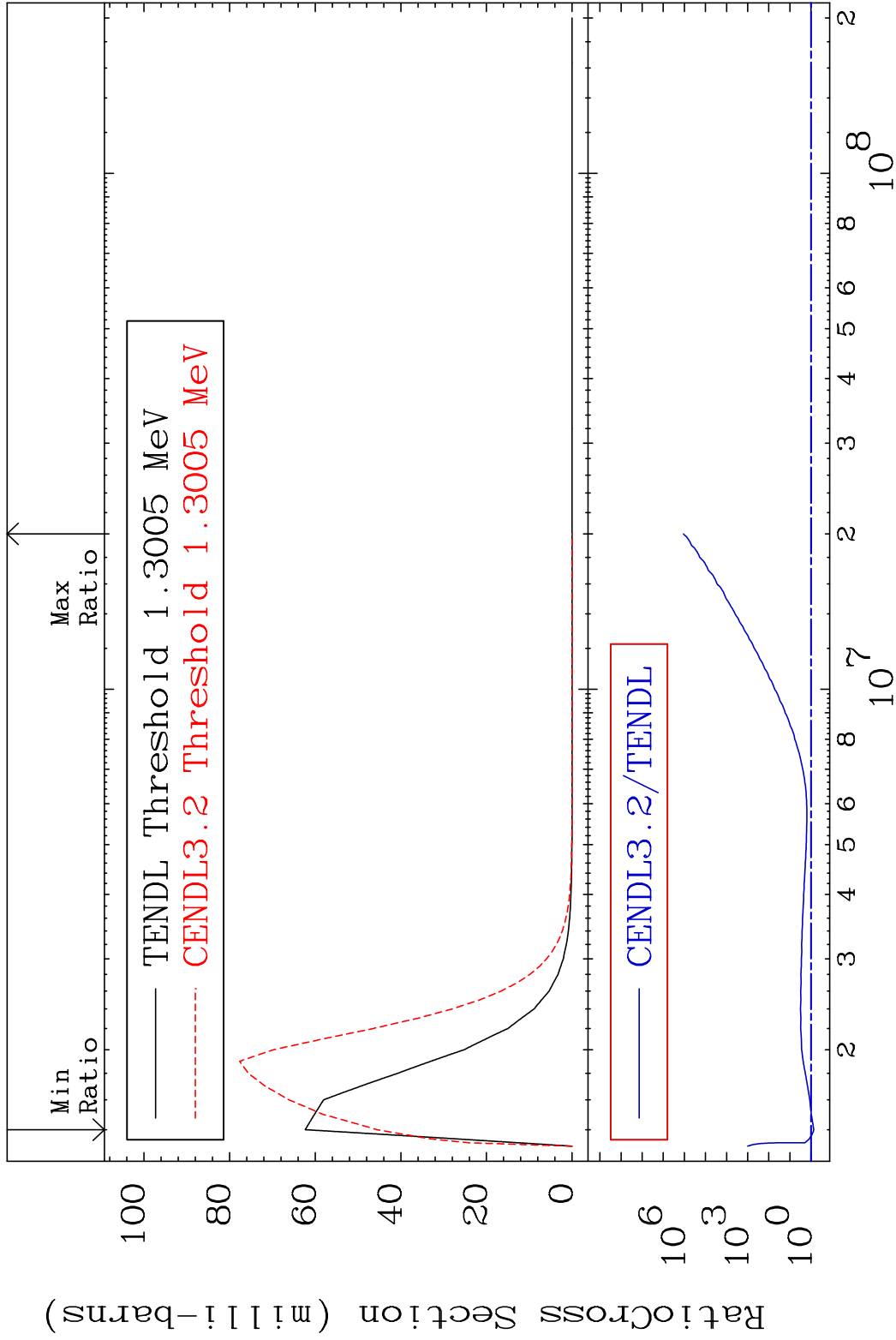
MAT 7231 MT= 56 (n, n') Level 72-Hf-176
 Cross Section -28.63 To 2210. %



MAT 7231 MT= 57 (n, n') Level 72-Hf-176
 Cross Section -100.0 To 9999. %

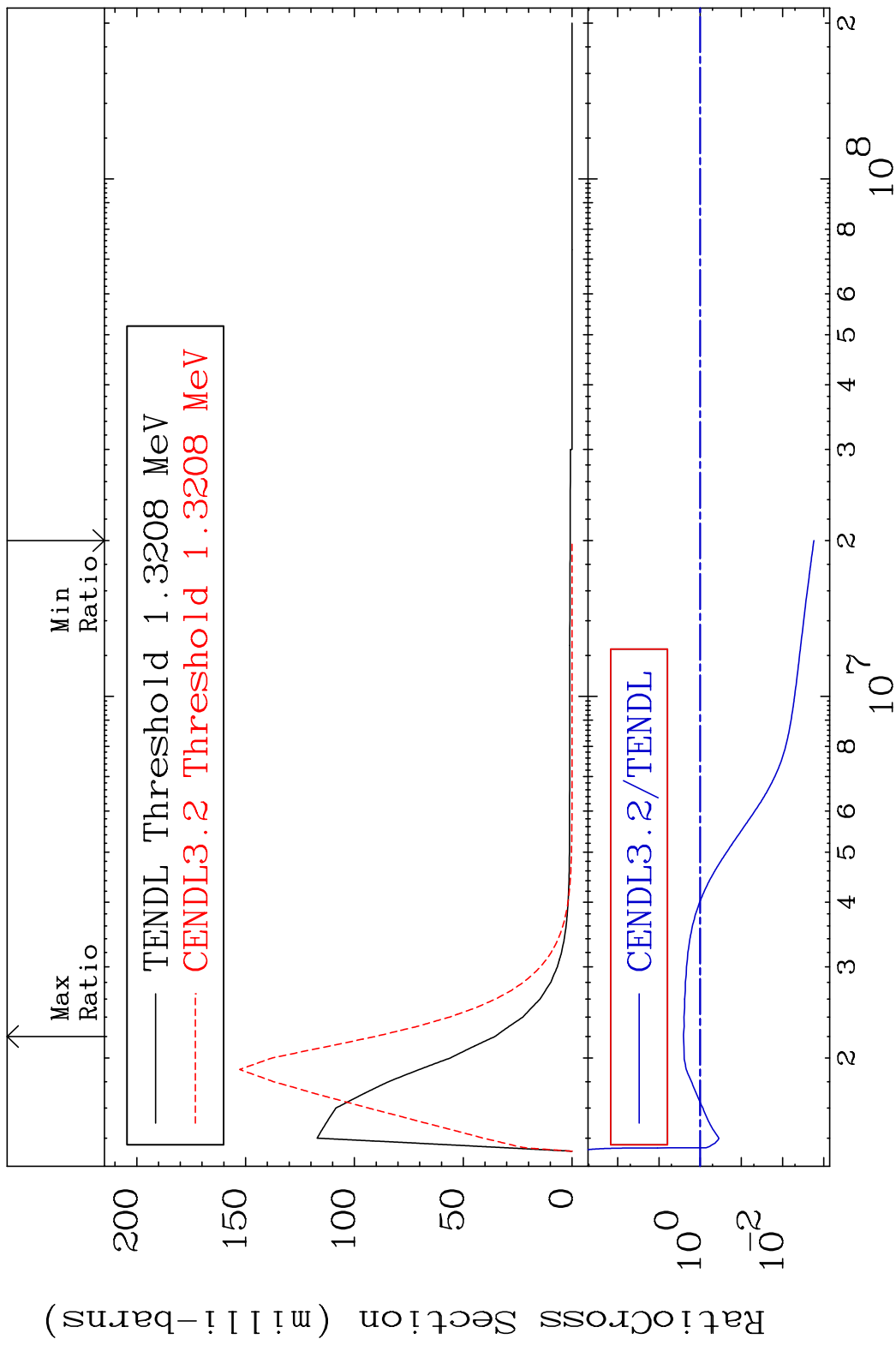


MAT 7231 MT= 58 (n, n') Level 72-Hf-176
 Cross Section -26.88 To 9999. %



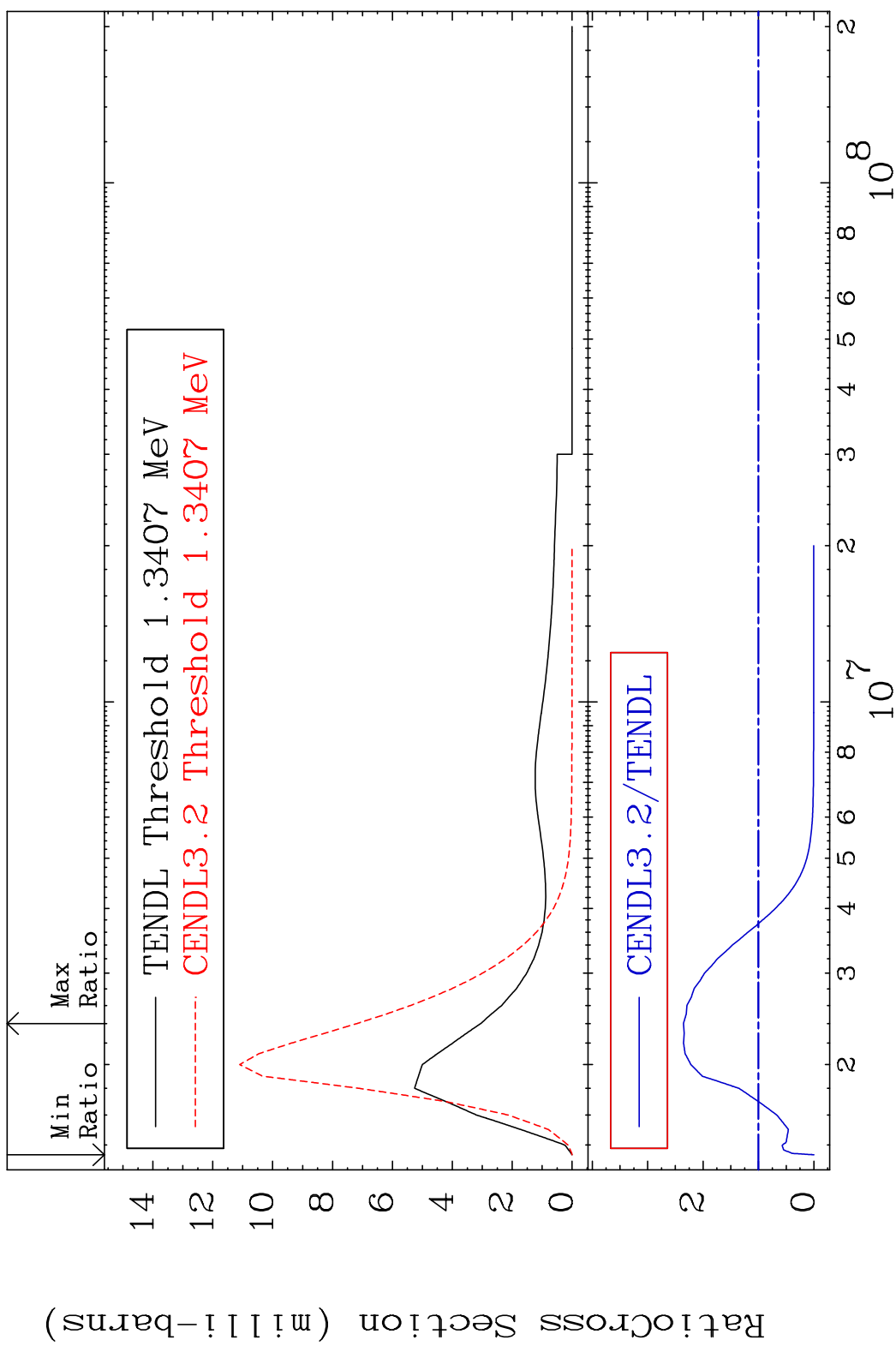
15 Incident Energy (eV) 72-Hf-176

MAT 7231 MT= 59 (n, n') Level 72-Hf-176
 Cross Section -99.83 To 154.8 %



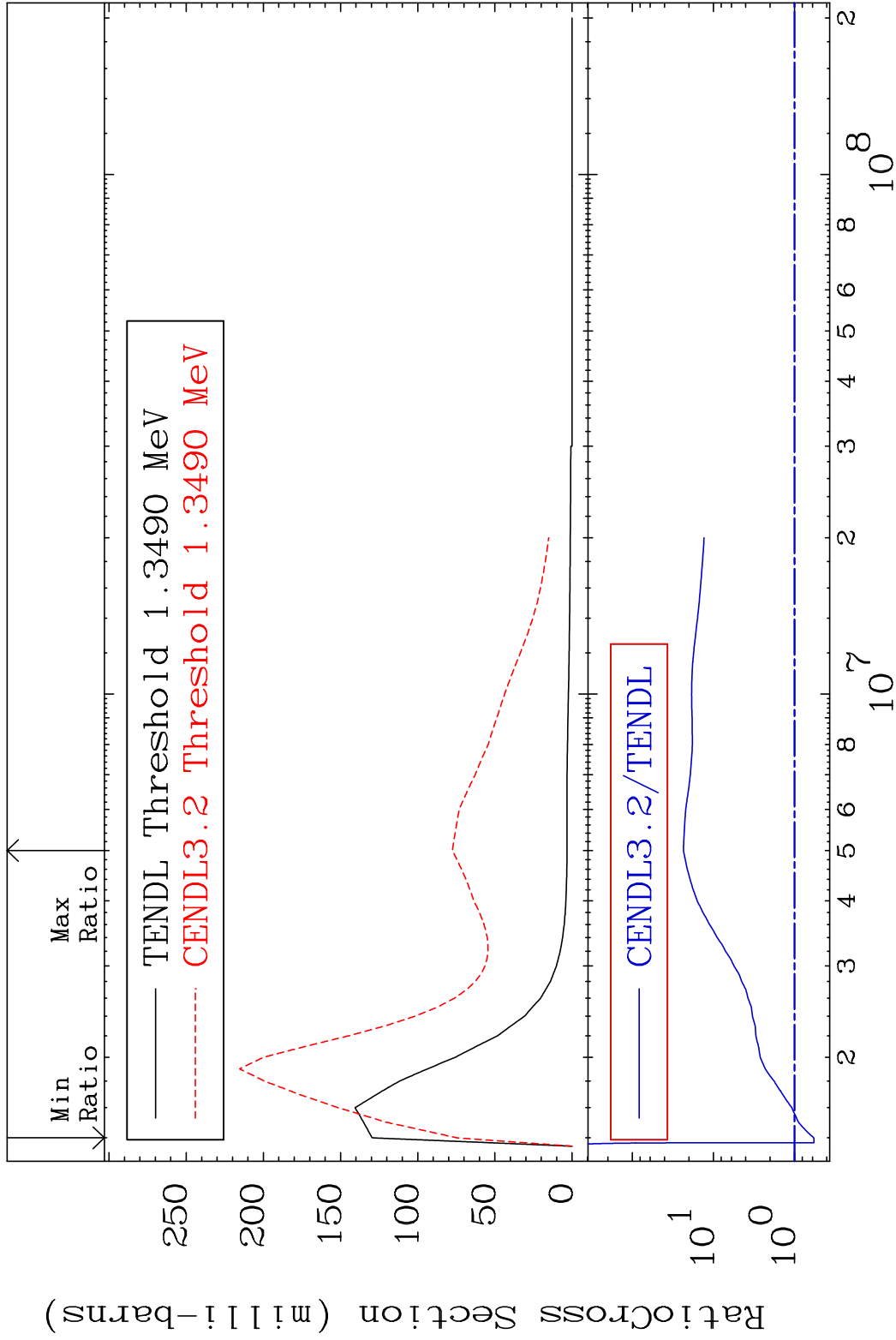
16 Incident Energy (eV) 72-Hf-176

MAT 7231 MT= 60 (n, n') Level 72-Hf-176
 Cross Section -100.0 To 135.4 %



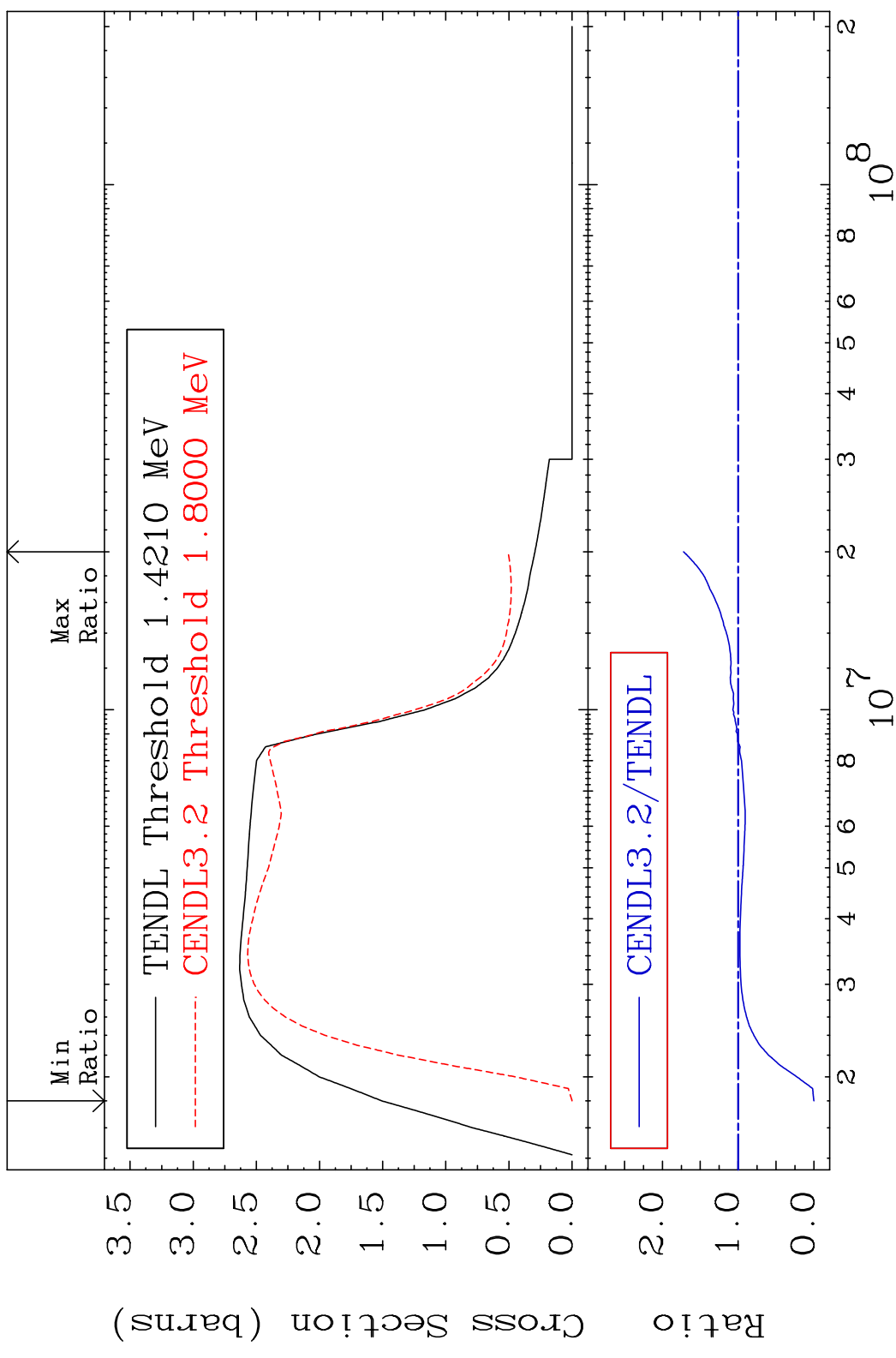
17 Incident Energy (eV) 72-Hf-176

MAT 7231 MT= 61 (n, n') Level 72-Hf-176
 Cross Section -42.31 To 2237. %



18 Incident Energy (eV) 72-Hf-176

MAT 7231 (n, n') Continuum 72-Hf-176
 Cross Section -100.0 To 72.21 %

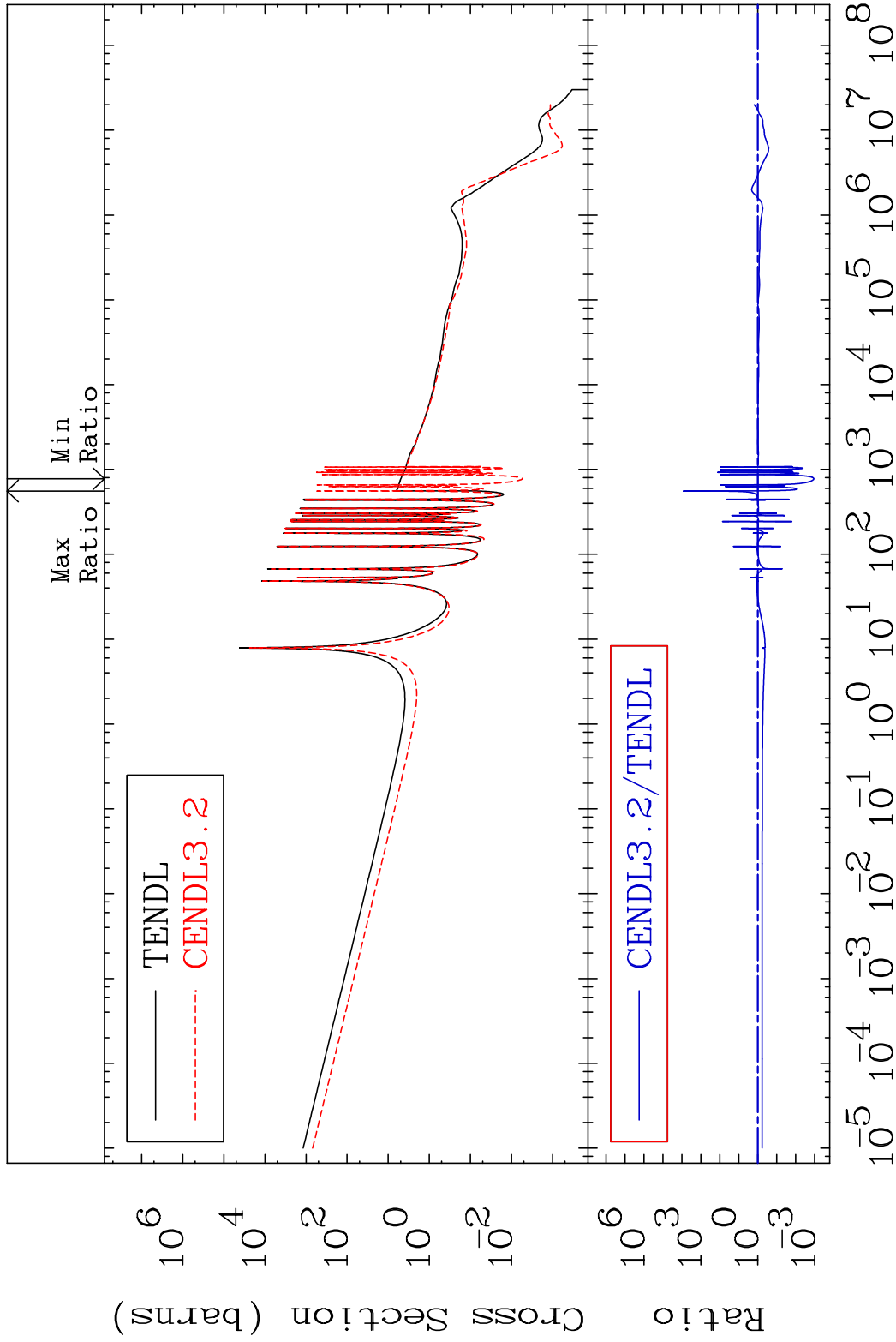


MAT 7231

(n, γ)

72-Hf-176

Cross Section -99.89 To 9999. %



20

Incident Energy (eV)

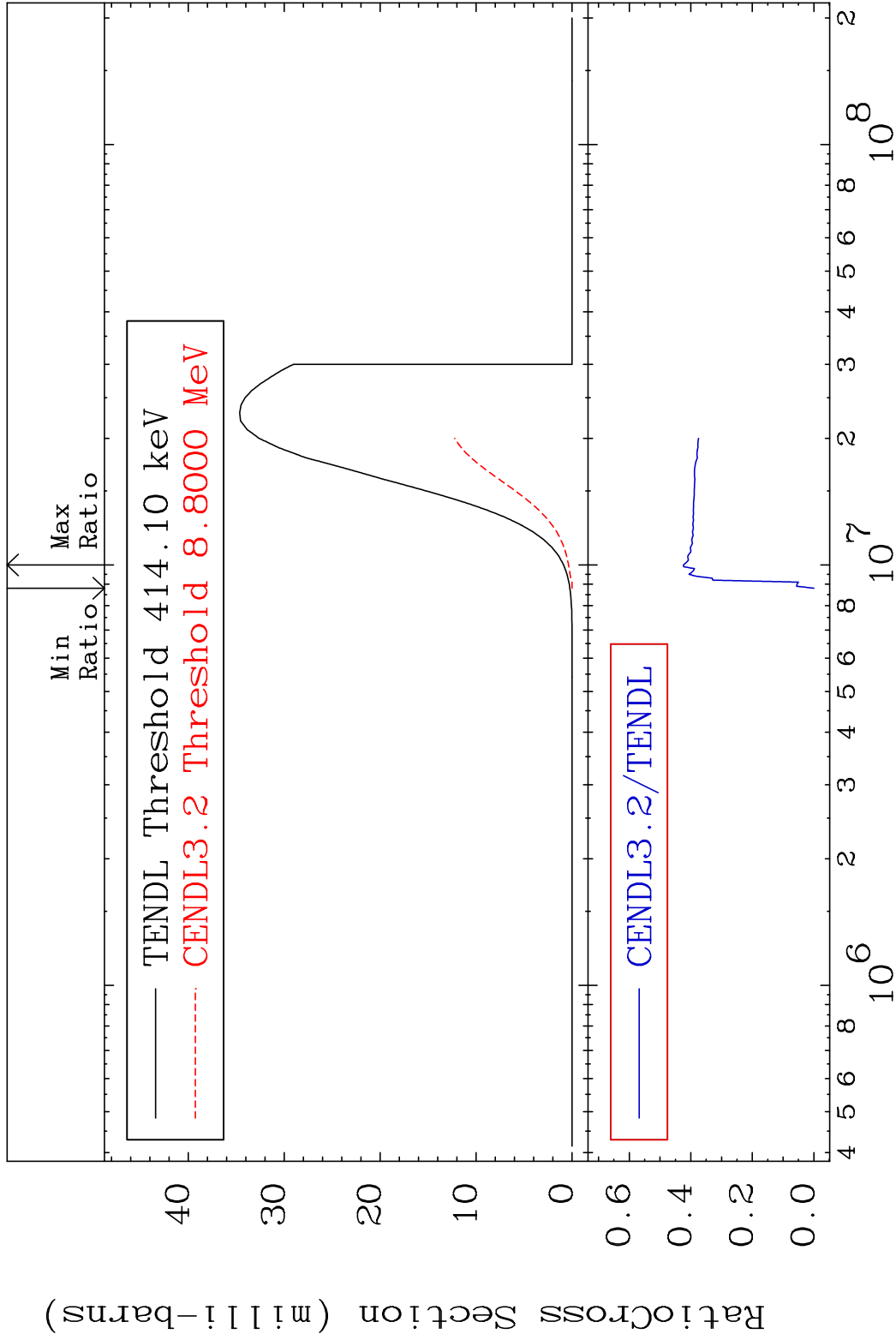
72-Hf-176

MAT 7231

(n, p)

72-Hf-176

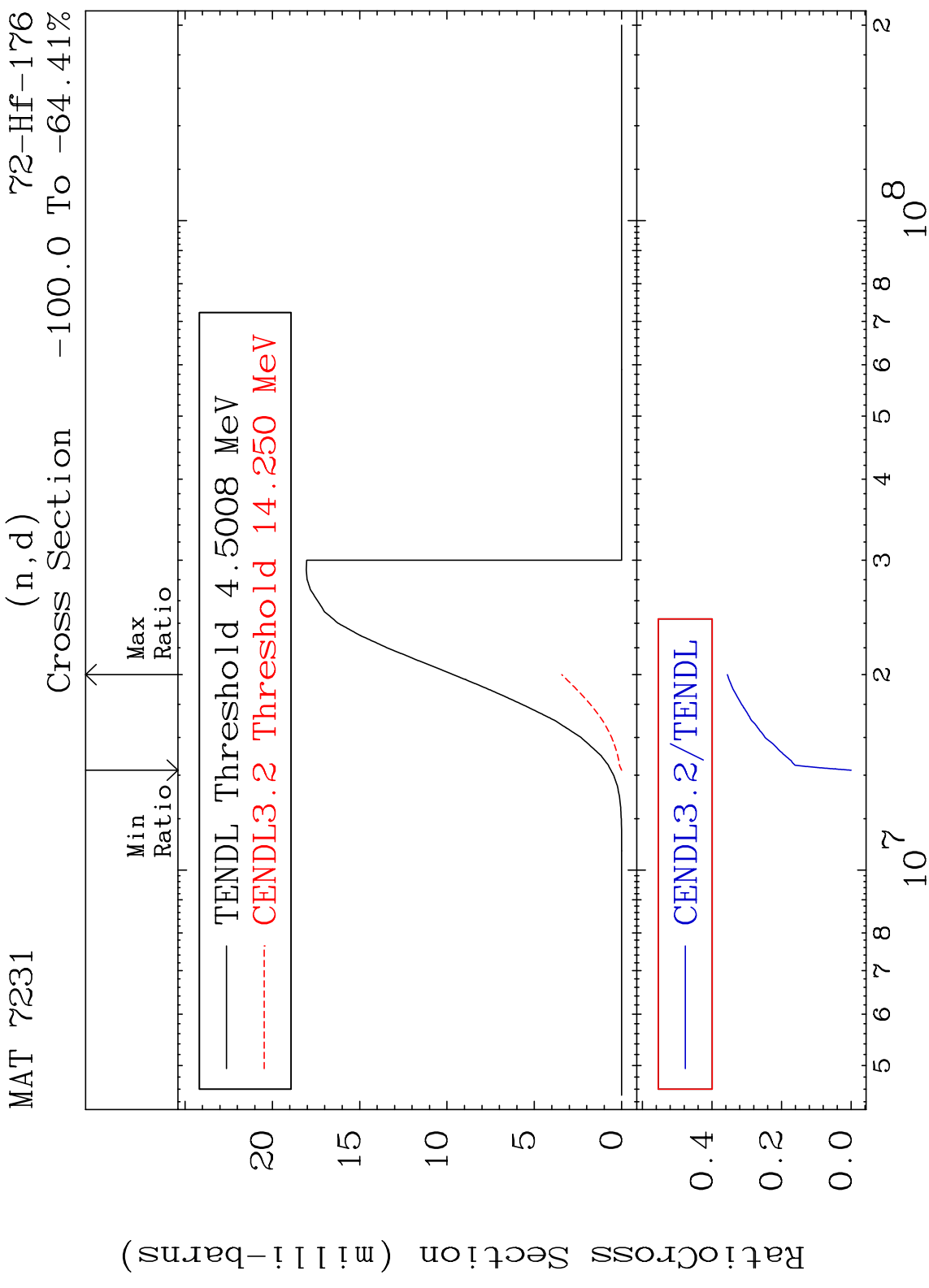
Cross Section -100.0 To -57.60%



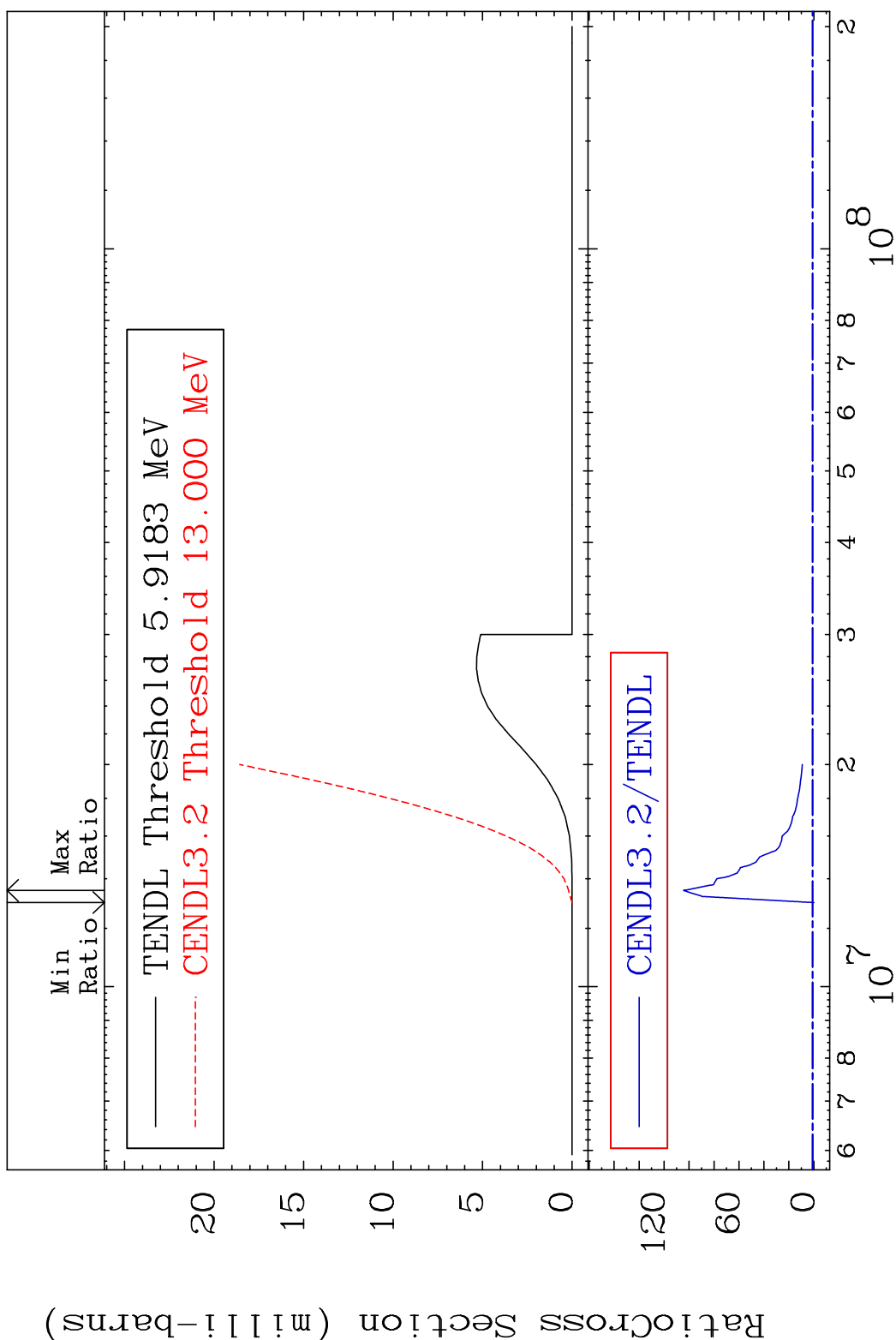
21

Incident Energy (eV)

72-Hf-176



MAT 7231 (n, t) 72-Hf-176
 Cross Section -100.0 To 9999. %



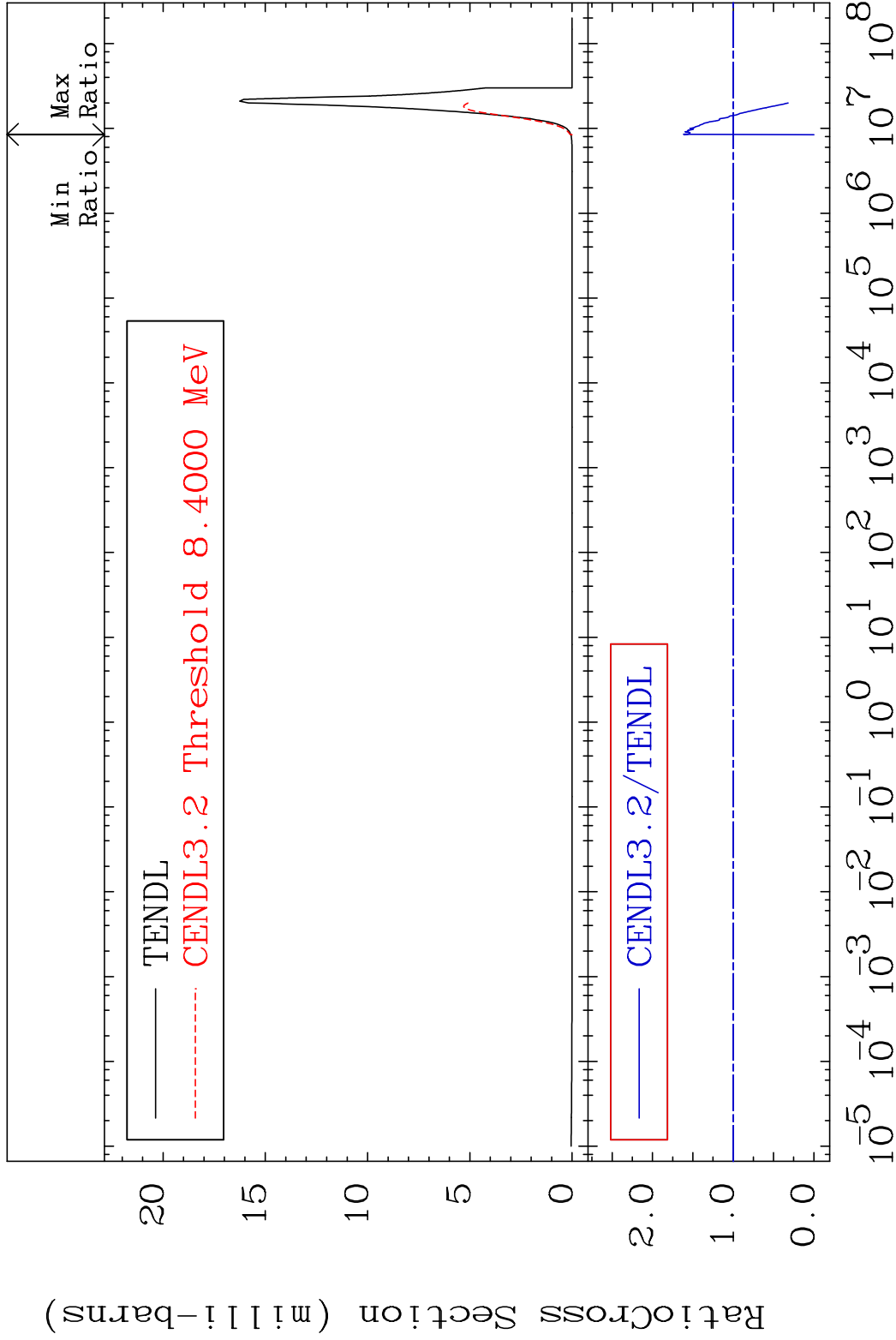
23 72-Hf-176

MAT 7231

(n, α)

72-Hf-176

Cross Section -100.0 To 61.63 %



24

Incident Energy (eV)

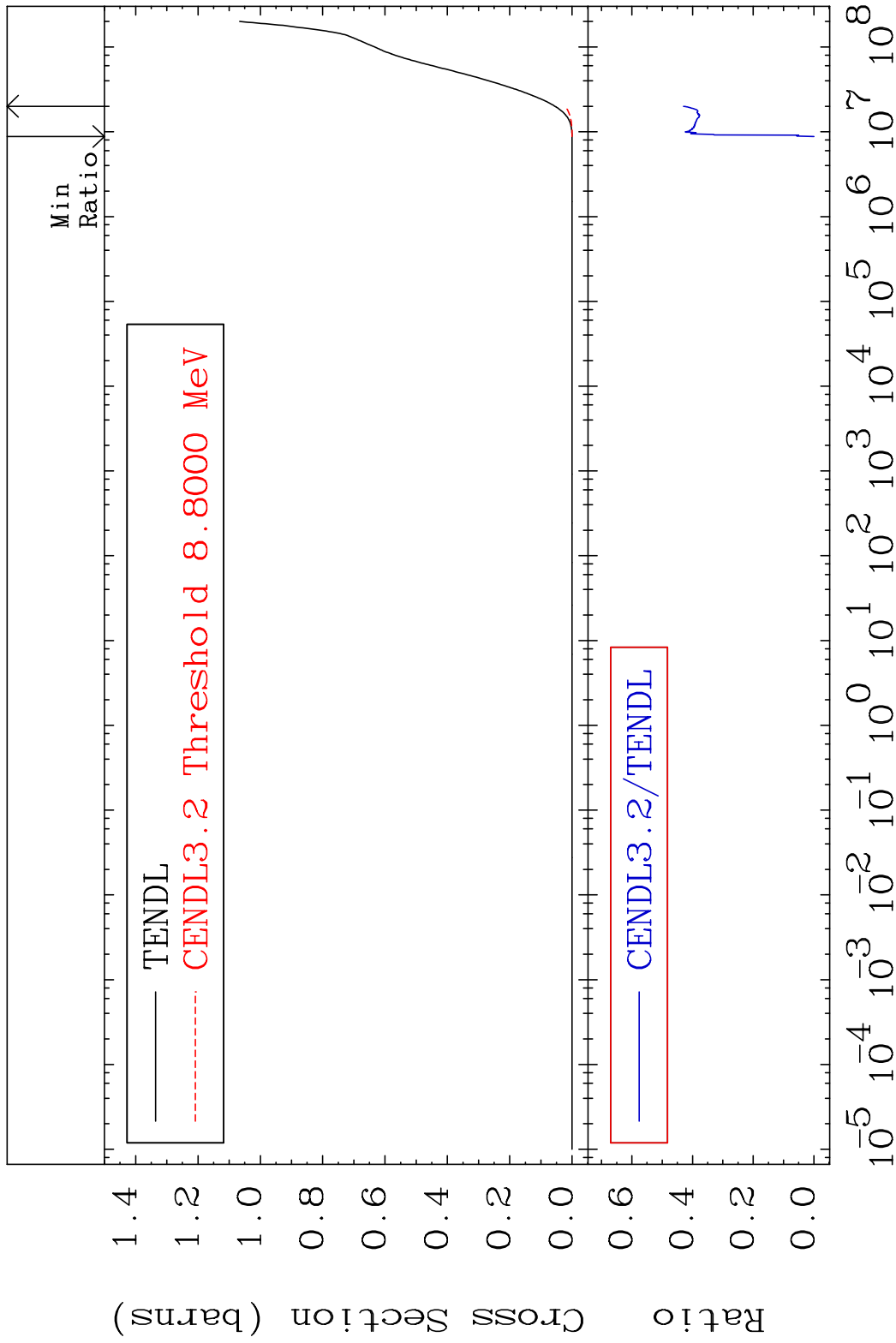
72-Hf-176

MAT 7231

Hydrogen Production

72-Hf-176

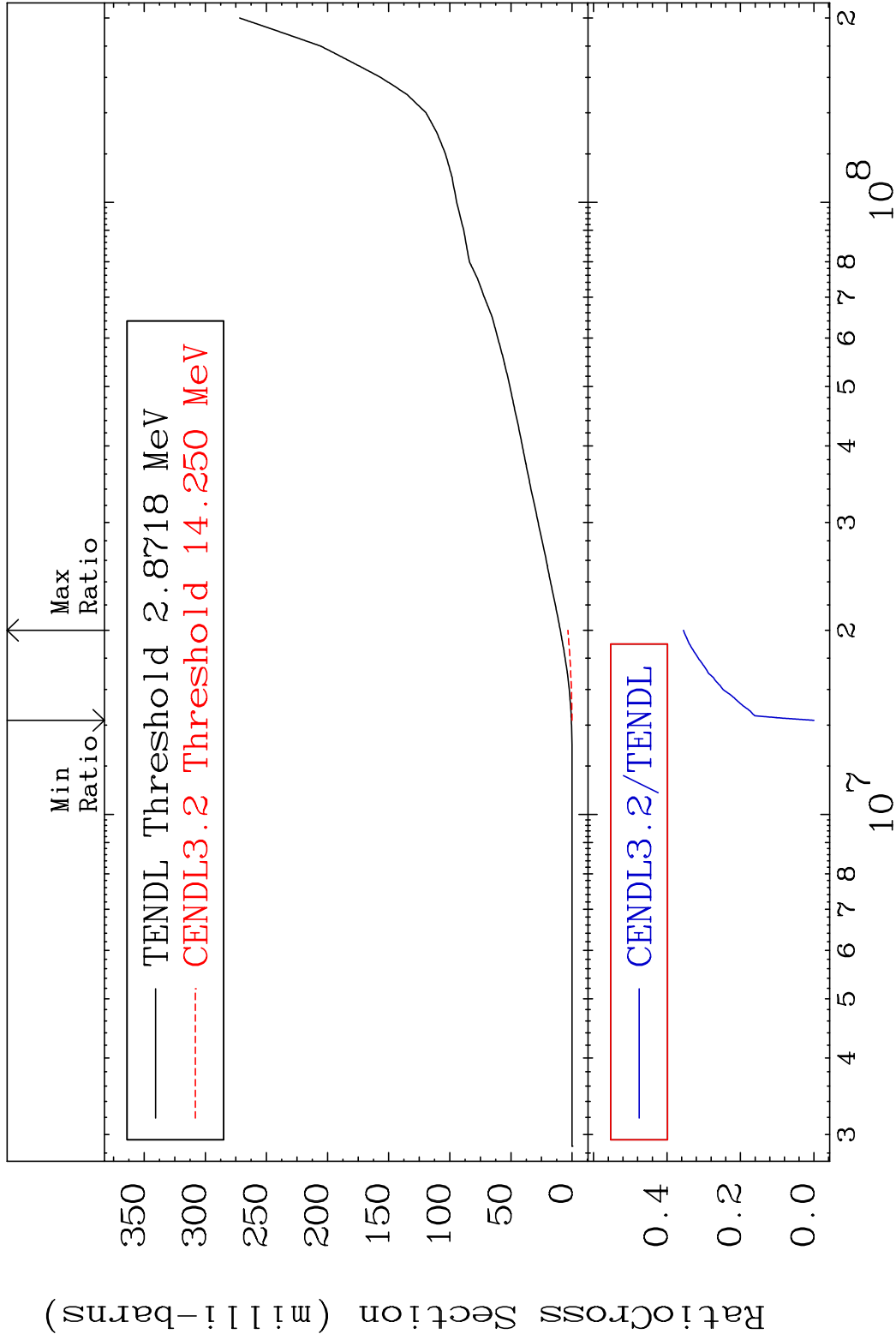
Cross Section -100.0 To -57.00%



25

Incident Energy (eV)

72-Hf-176

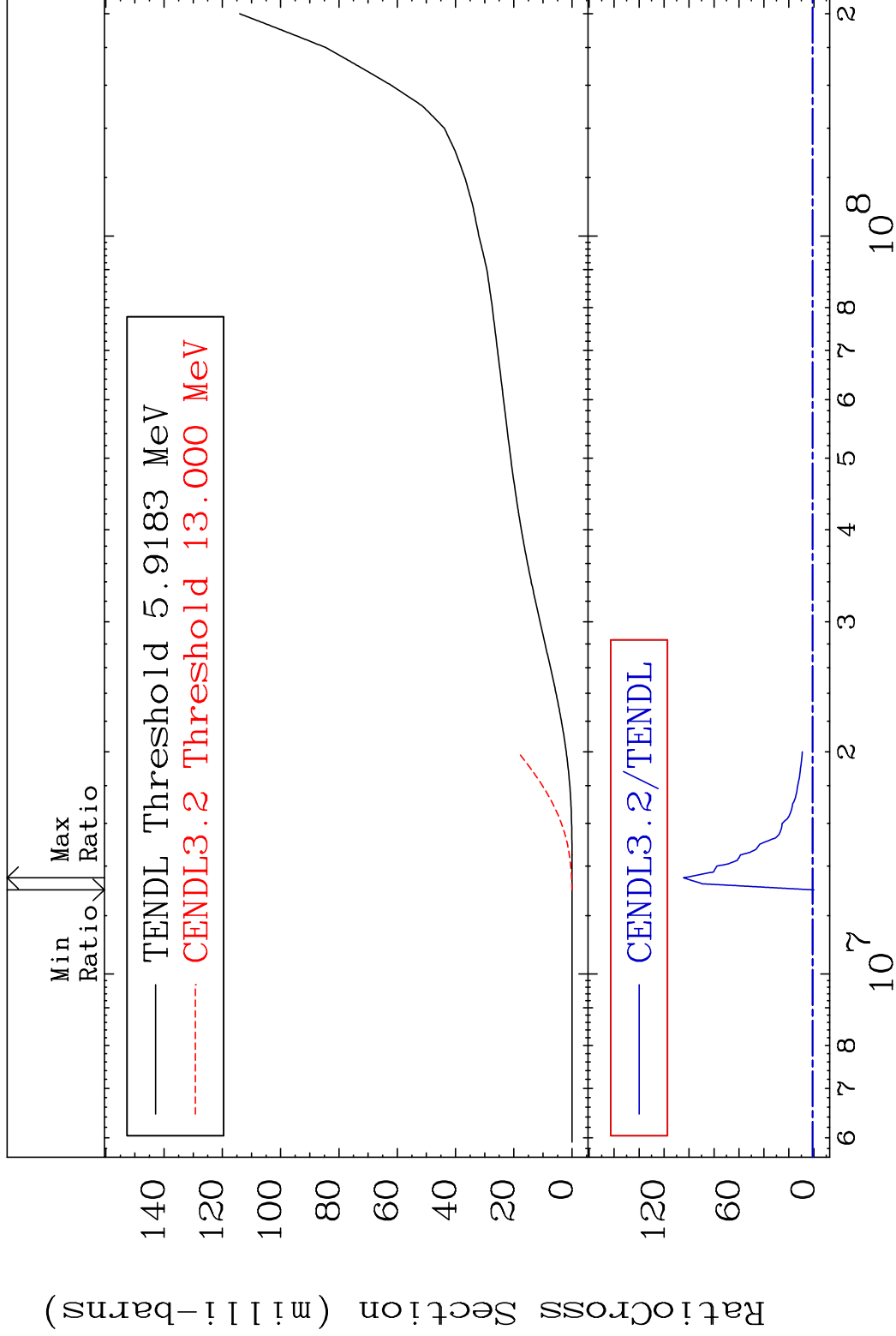


MAT 7231

Tritium Production

72-Hf-176

Cross Section -100.0 To 9999. %



27

Incident Energy (eV)

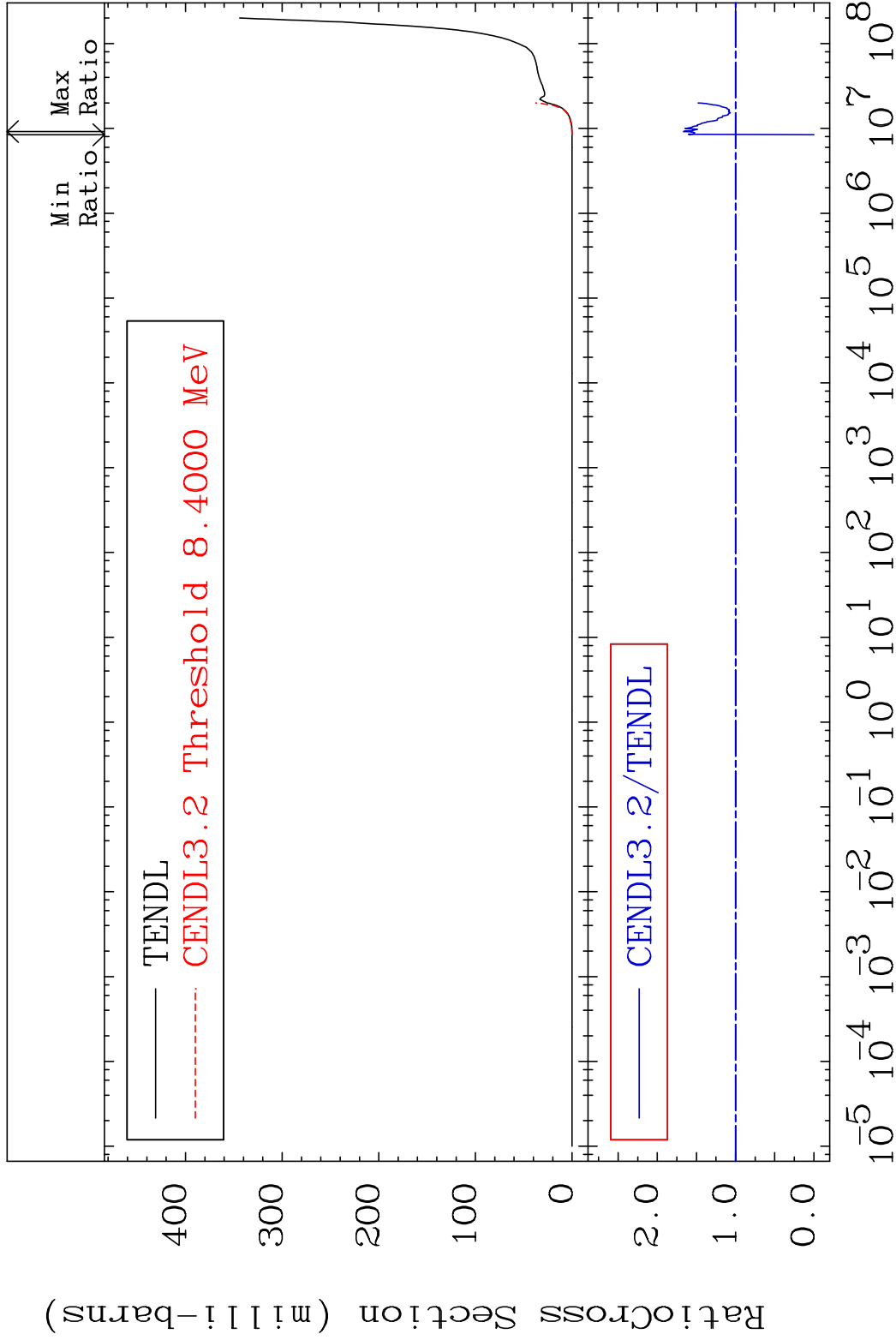
72-Hf-176

MAT 7231

He-4 Production

72-Hf-176

Cross Section -100.0 To 66.56 %

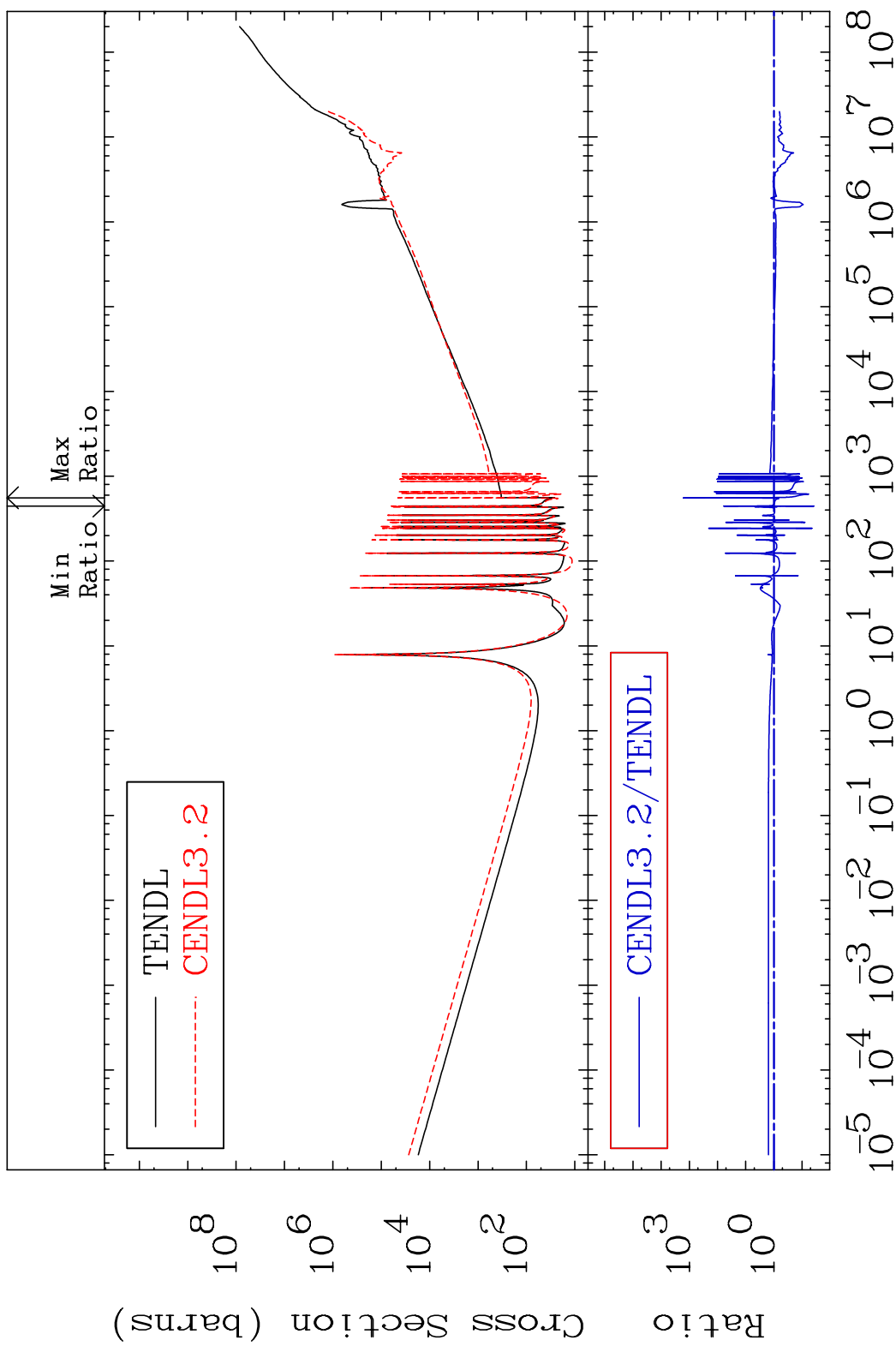


28

Incident Energy (eV)

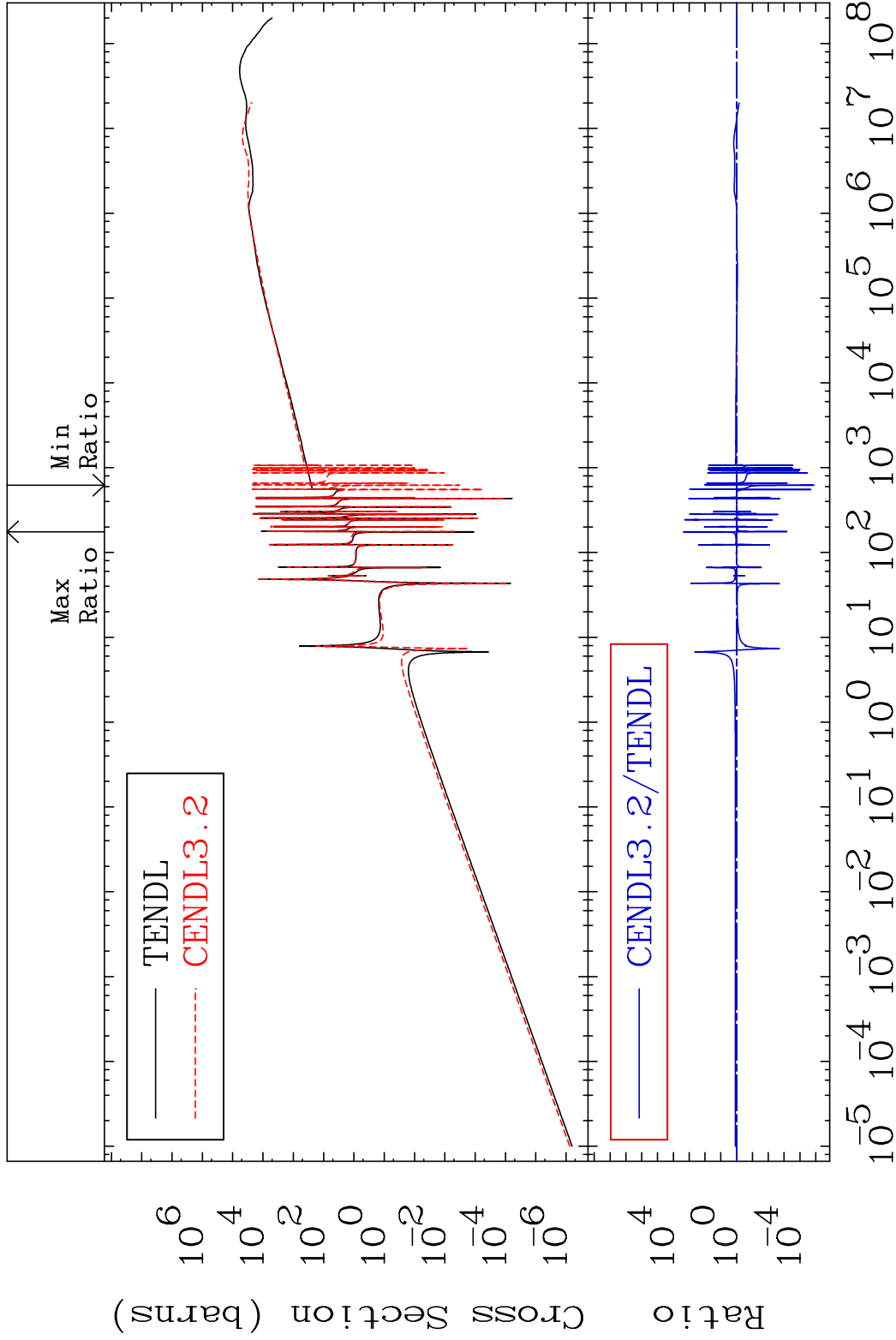
72-Hf-176

MAT 7231 Kerma total (eV-barns) 72-Hf-176
 Cross Section -96.17 To 9999. %

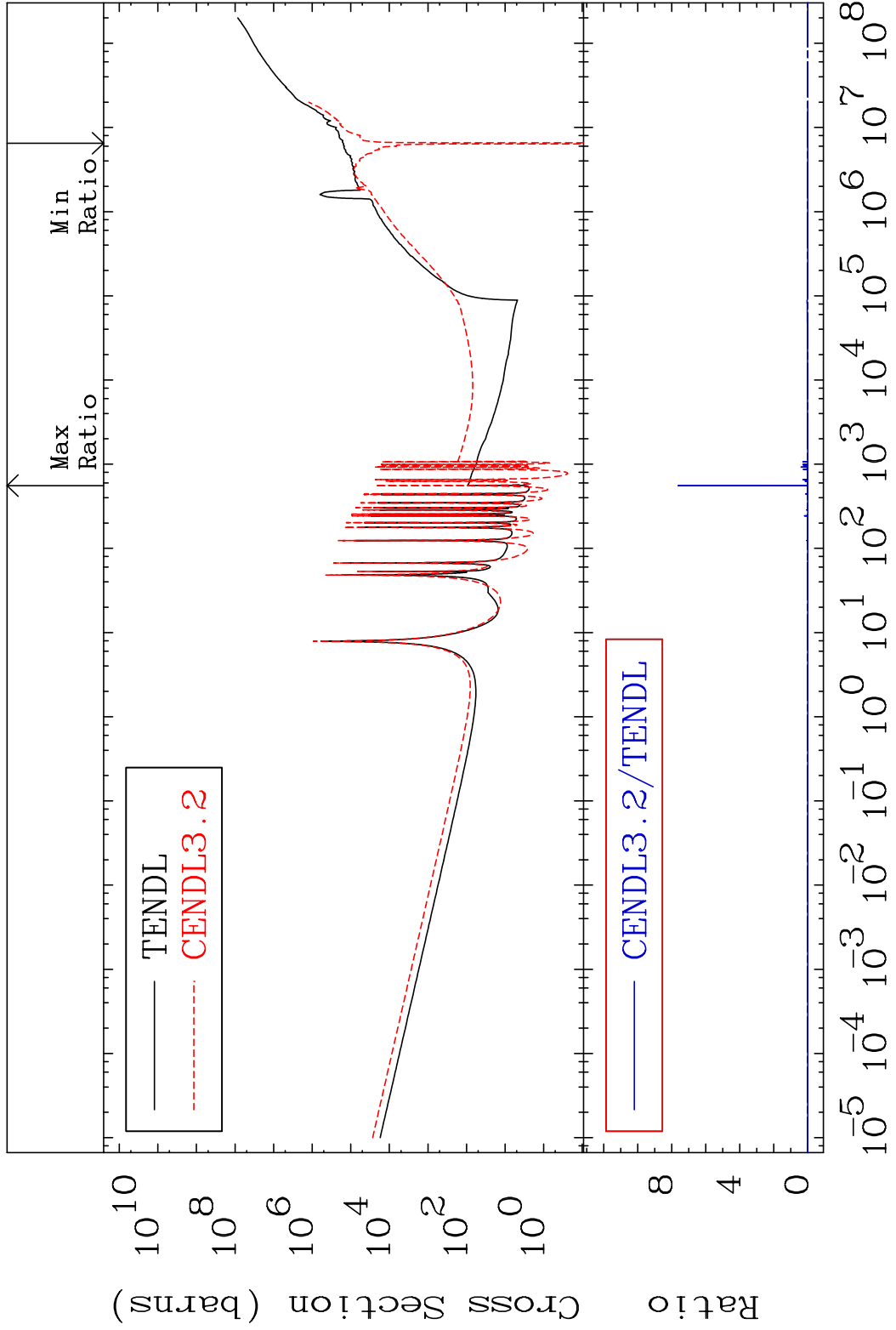


29 Incident Energy (eV) 72-Hf-176

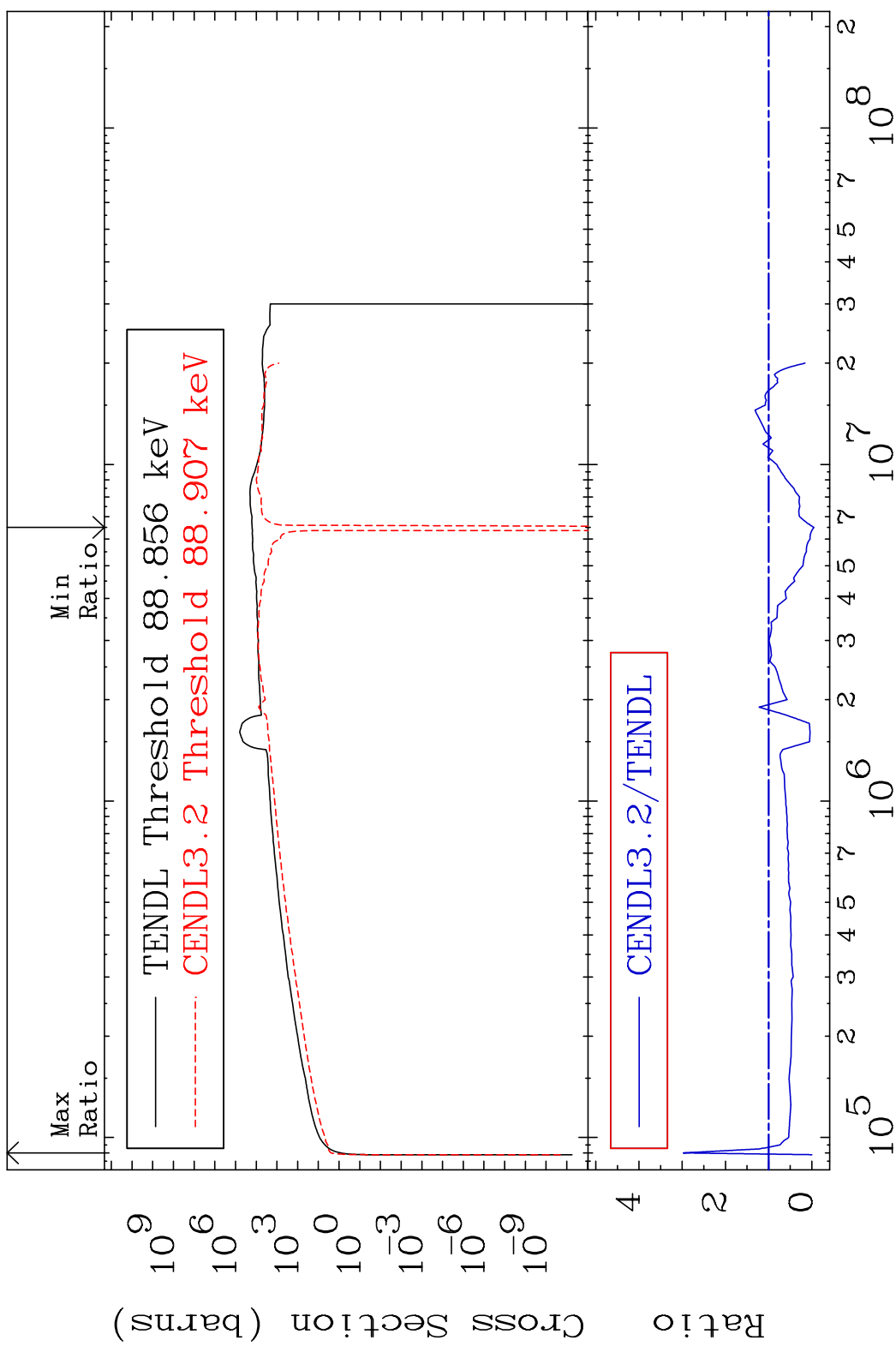
MAT 7231 Kerma elastic 72-Hf-176
 Cross Section -100.0 To 9999. %



MAT 7231 Kerma non-elastic (all but mt2) 72-Hf-176
 Cross Section -104.6 To 9999. %

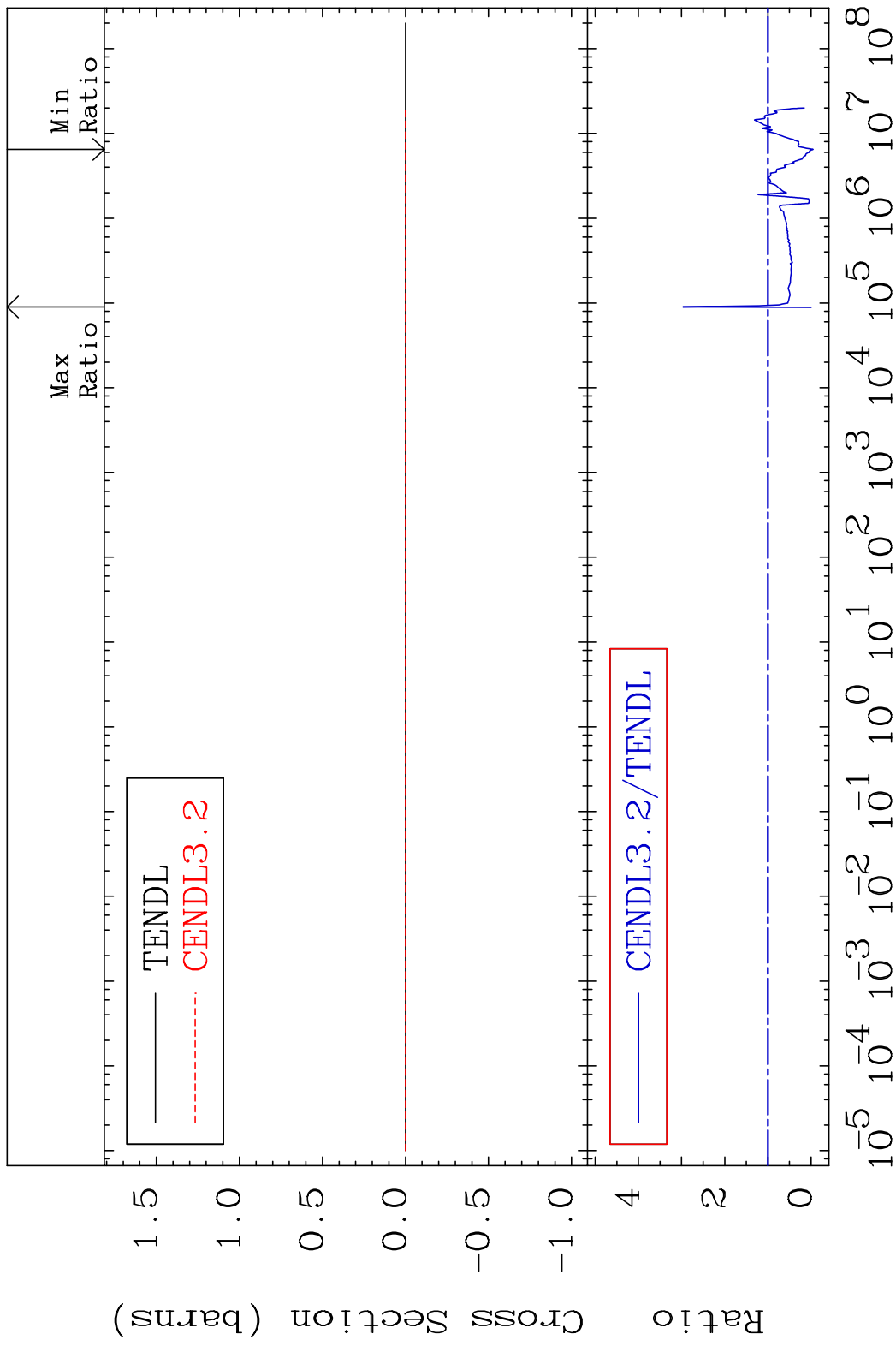


MAT 7231 Kerma inelastic (mt51-91) 72-Hf-176
 Cross Section -104.6 To 197.1 %

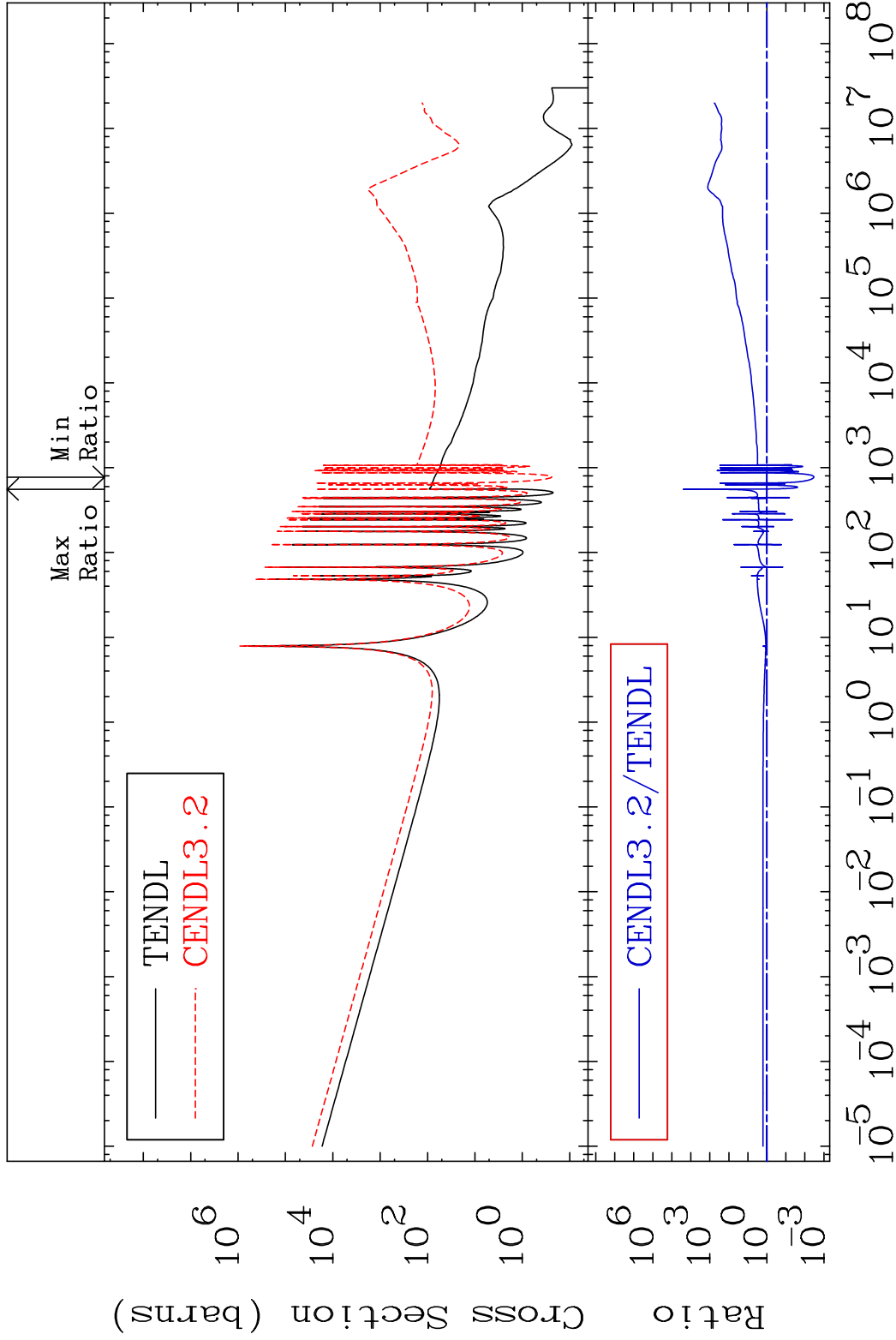


32 Incident Energy (eV) 72-Hf-176

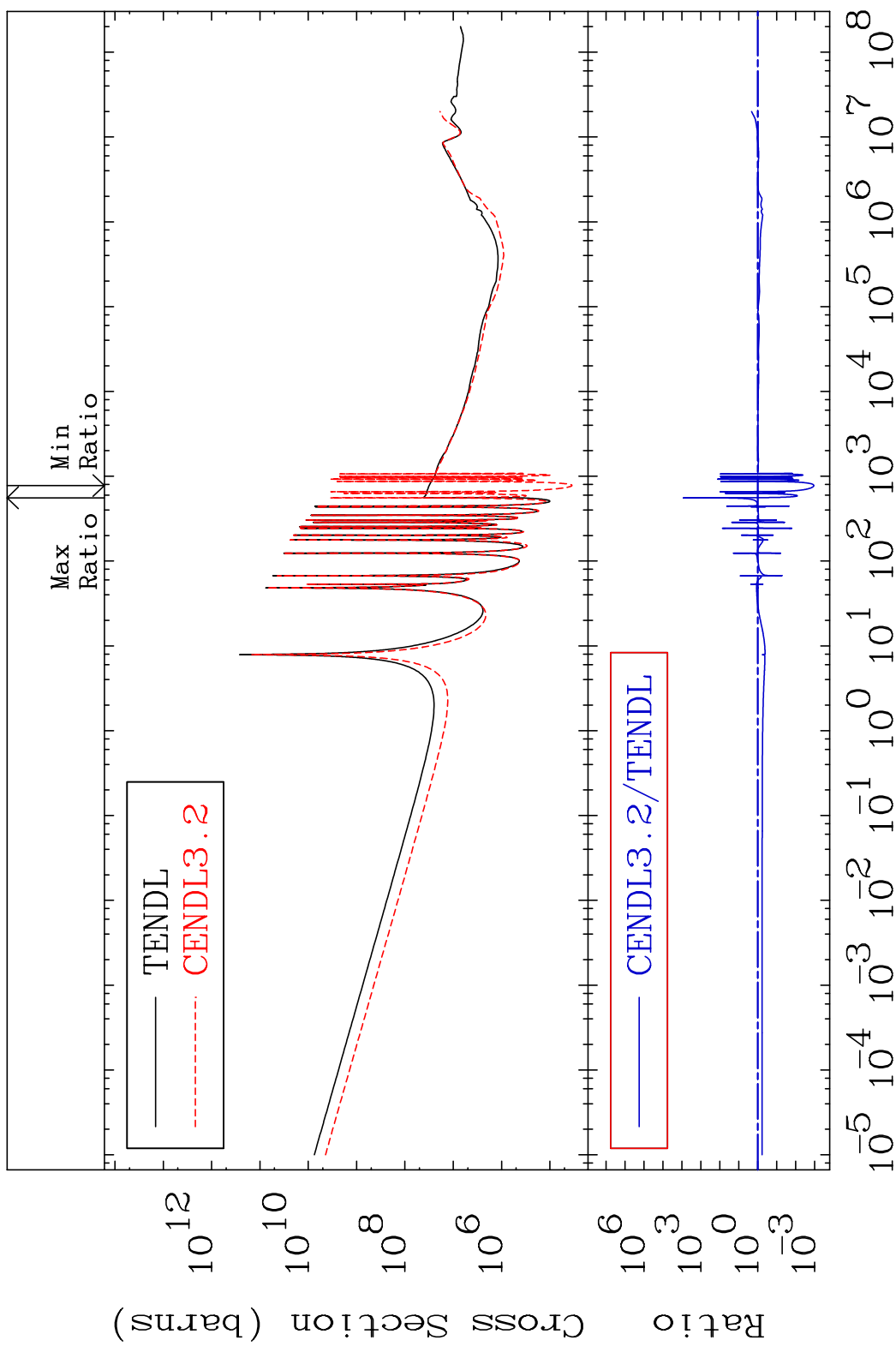
MAT 7231 Kerma fission (mt18 or mt19-20-21-38)72-Hf-176
 Cross Section -104.6 To 197.1 %



MAT 7231 Kerma capture (mt102) 72-Hf-176
 Cross Section -99.66 To 9999. %

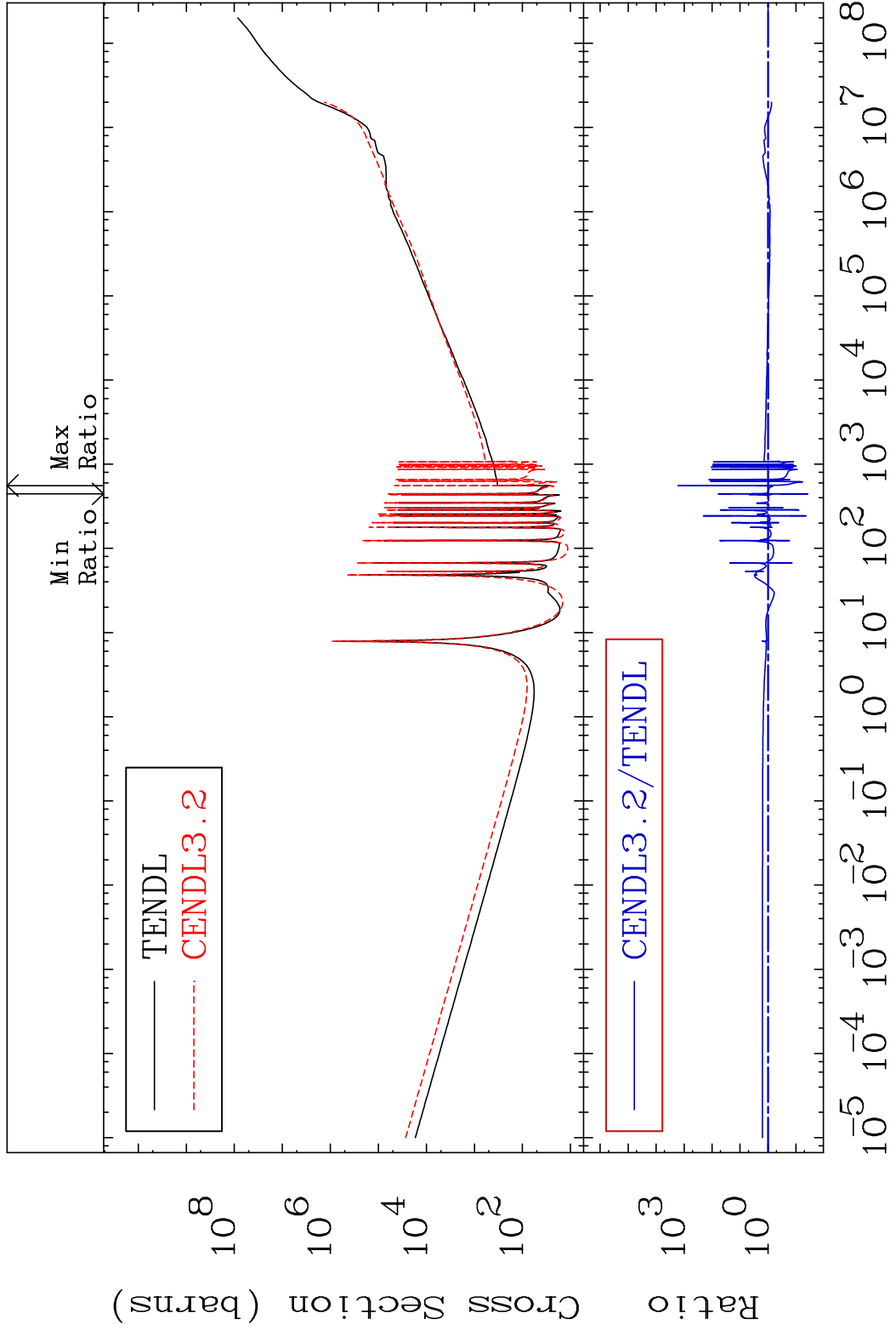


MAT 7231 Total photon (eV-barns) 72-Hf-176
 Cross Section -99.89 To 9999. %

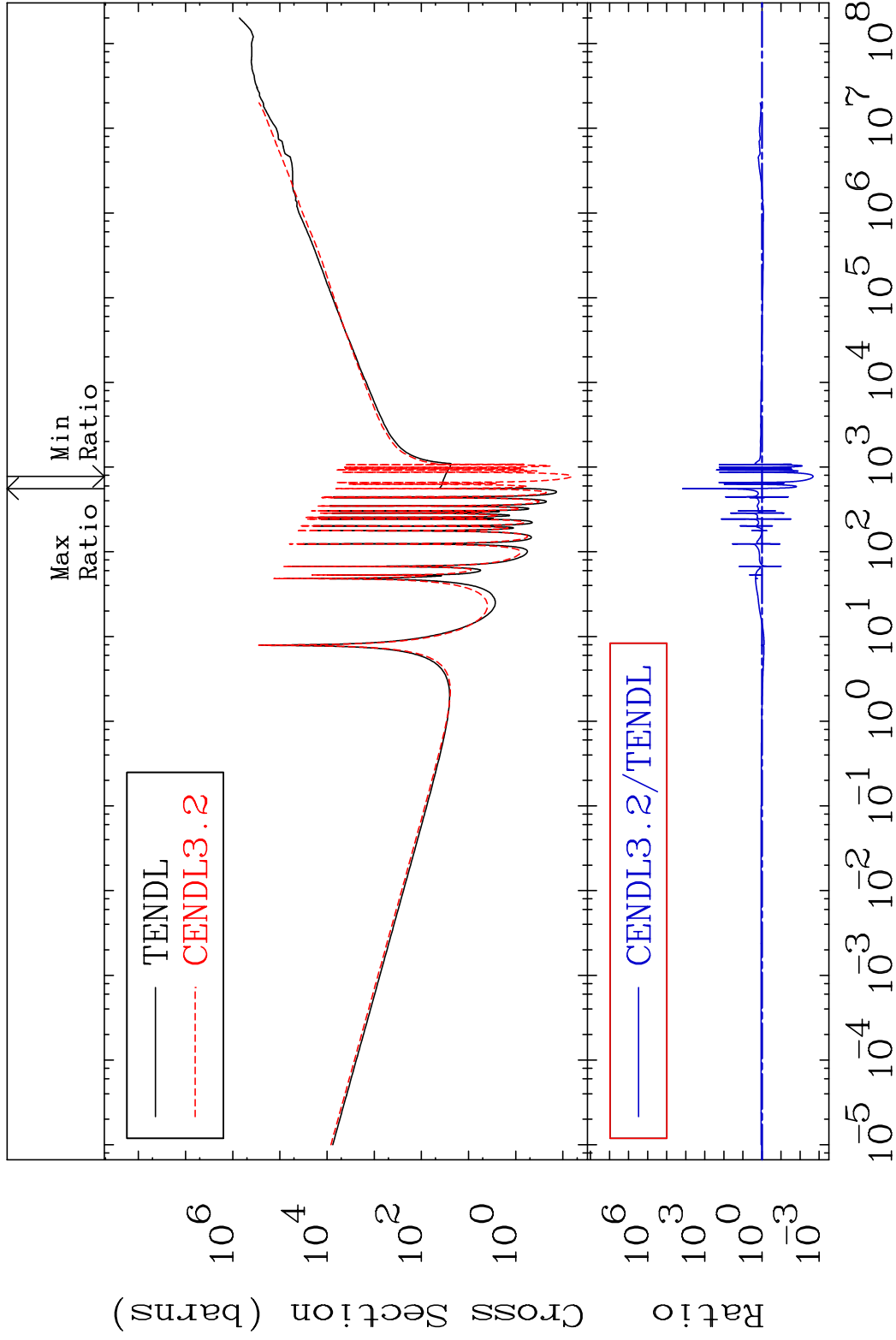


35 Incident Energy (eV) 72-Hf-176

MAT 7231 Total kinematic kerma (high limit) 72-Hf-176
 Cross Section -96.17 To 9999. %



MAT 7231 Dpa total (eV-barns) 72-Hf-176
 Cross Section -99.79 To 9999. %



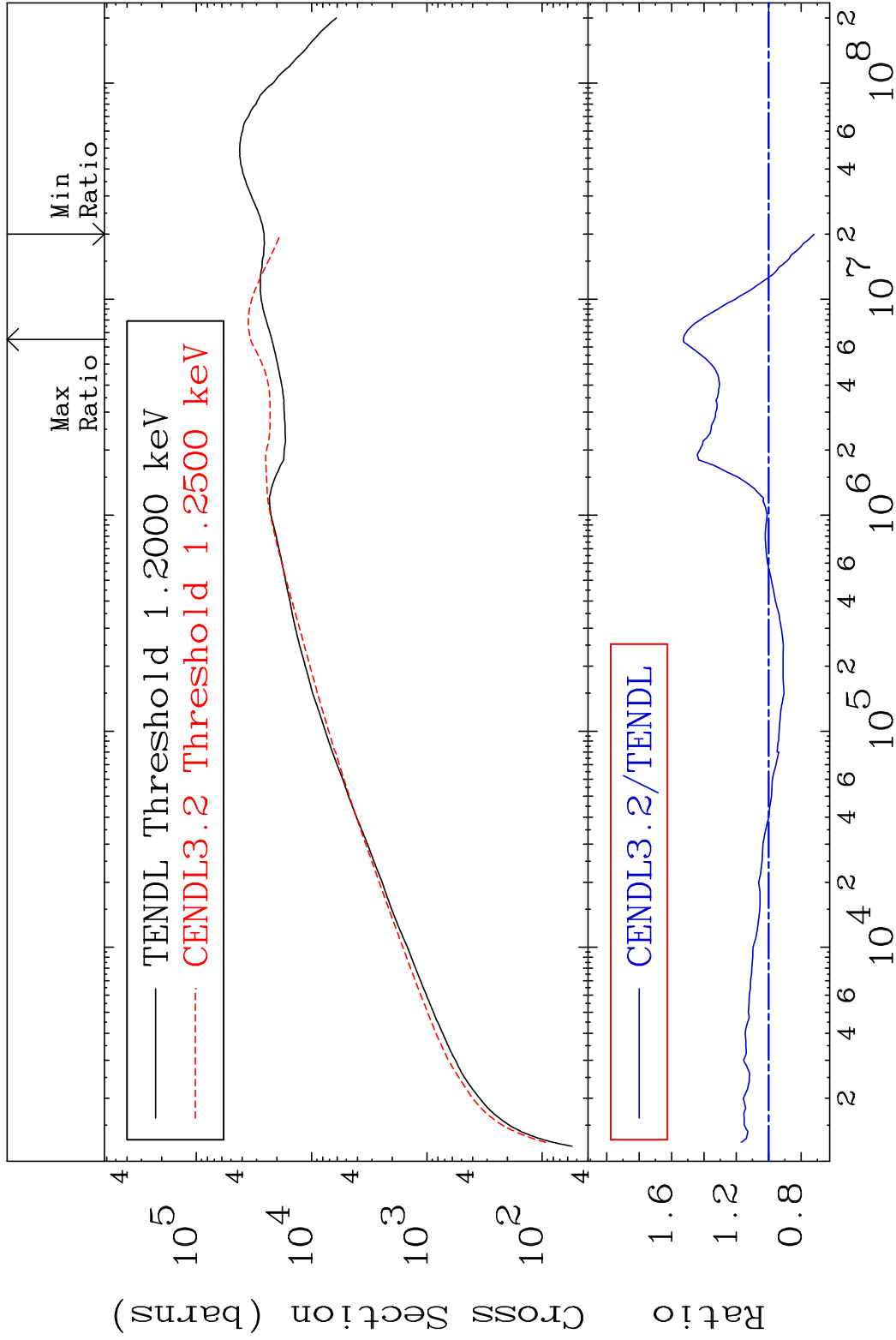
37 Incident Energy (eV) 72-Hf-176

MAT 7231

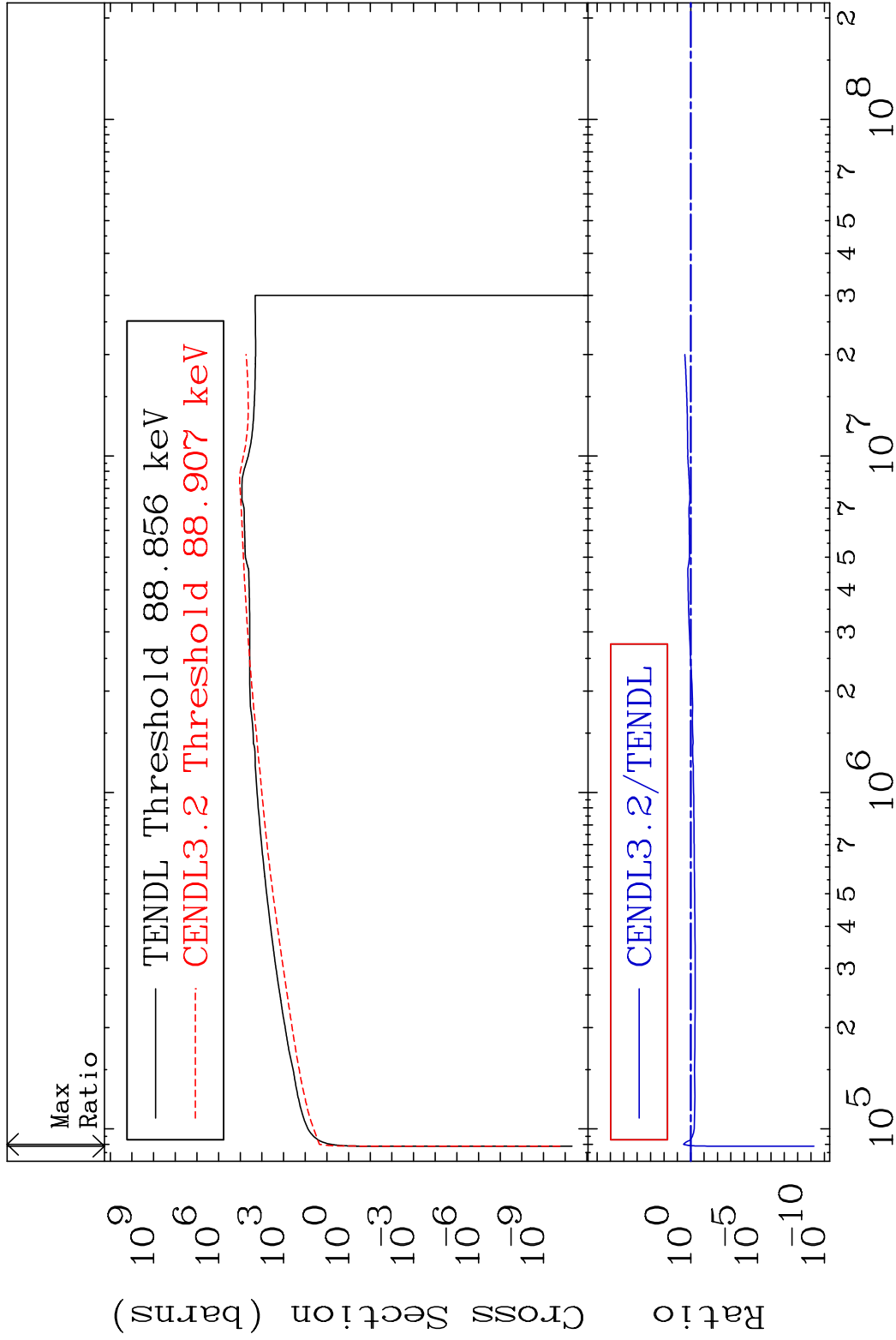
Dpa elastic (mt2)

72-Hf-176

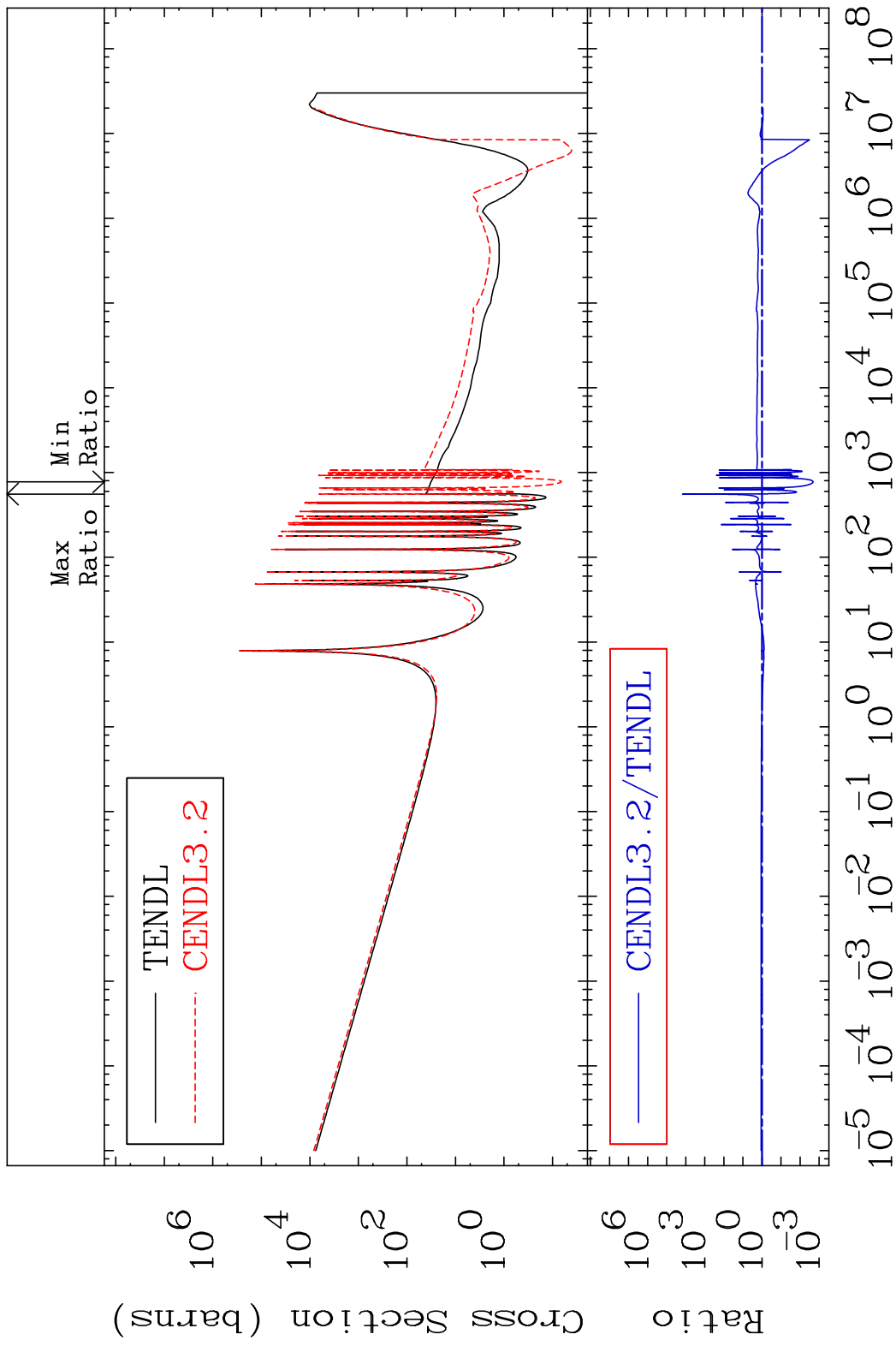
Cross Section -27.87 To 52.67 %



MAT 7231 Dpa inelastic (mt51-91) 72-Hf-176
 Cross Section -100.0 To 248.7 %

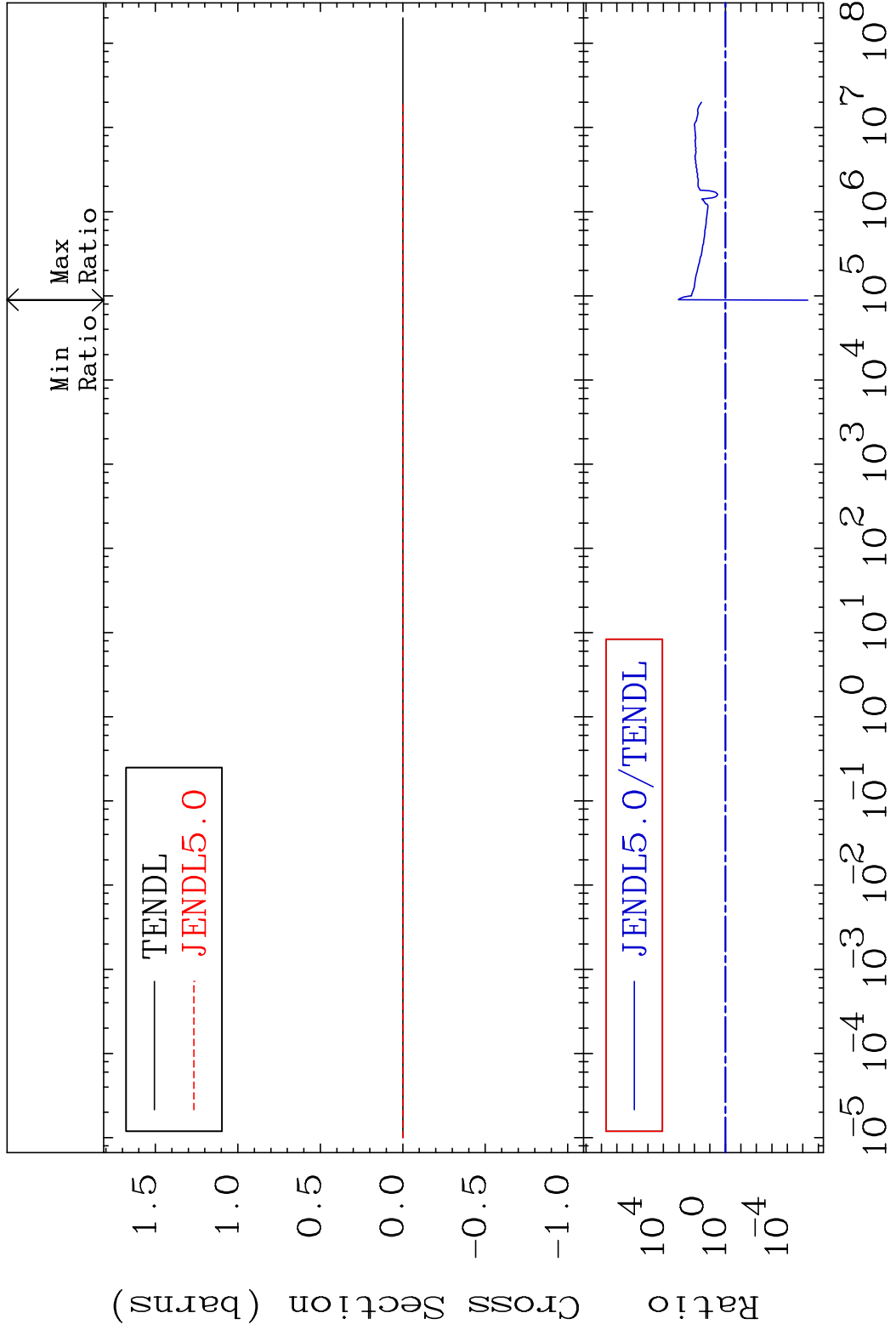


MAT 7231 Dpa disappearance (mt102 -120) 72-Hf-176
 Cross Section -99.79 To 9999. %

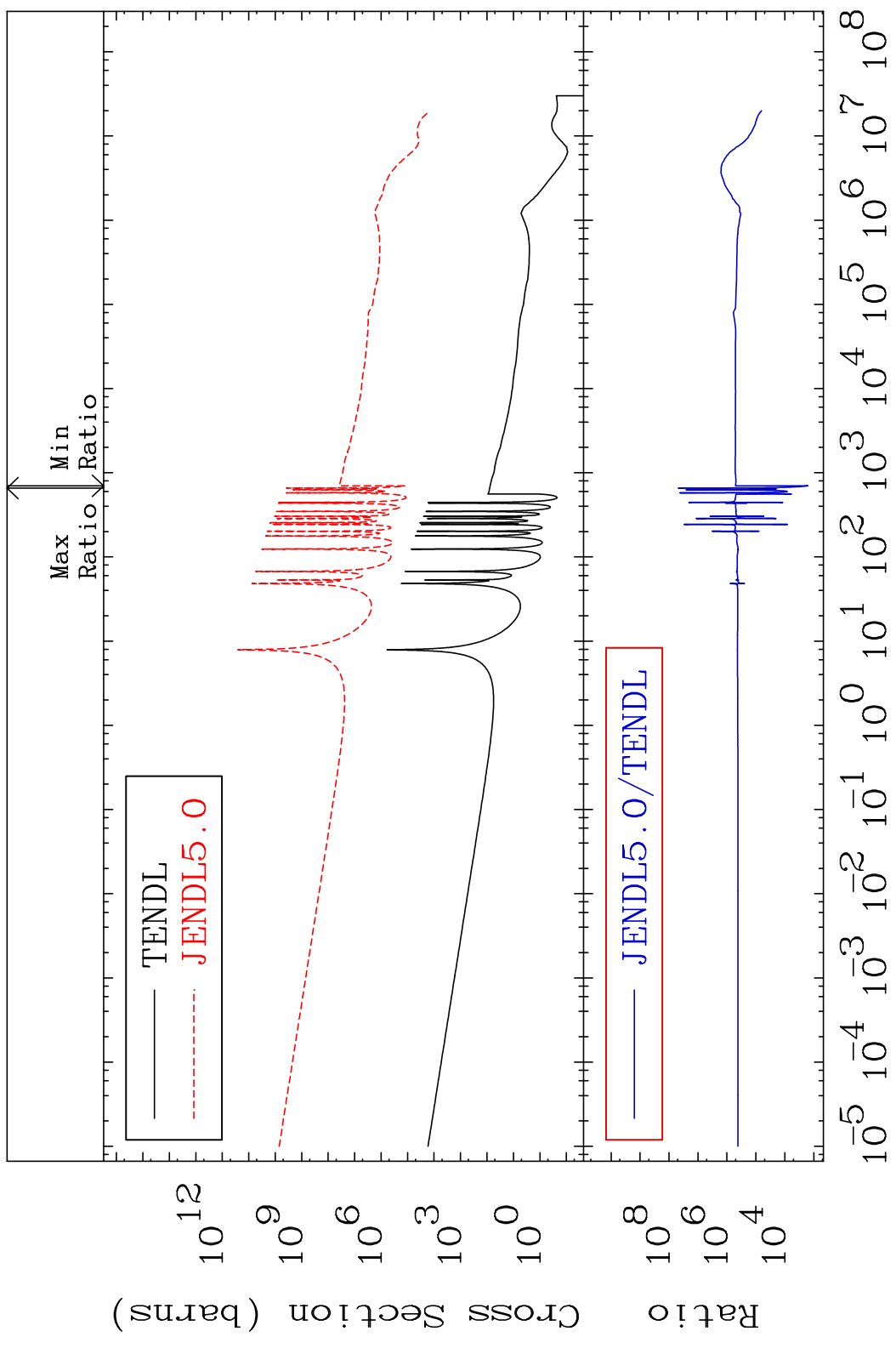


40 Incident Energy (eV) 72-Hf-176

MAT 7231 Kerma fission (mt18 or mt19-20-21-38)72-Hf-176
 Cross Section -100.0 To 9999. %

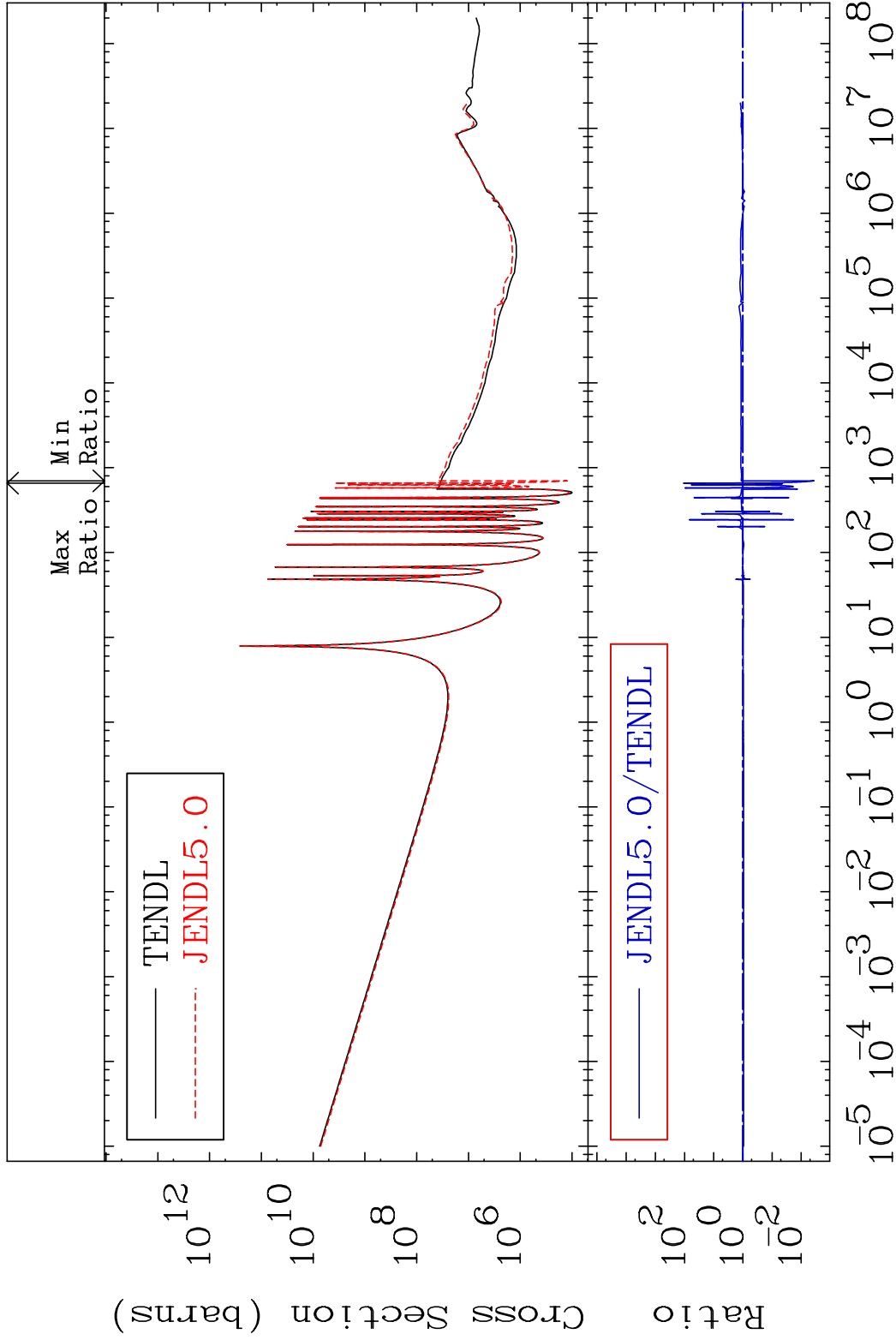


MAT 7231 Kerma capture (mt102) 72-Hf-176
 Cross Section 9999. To 9999. %



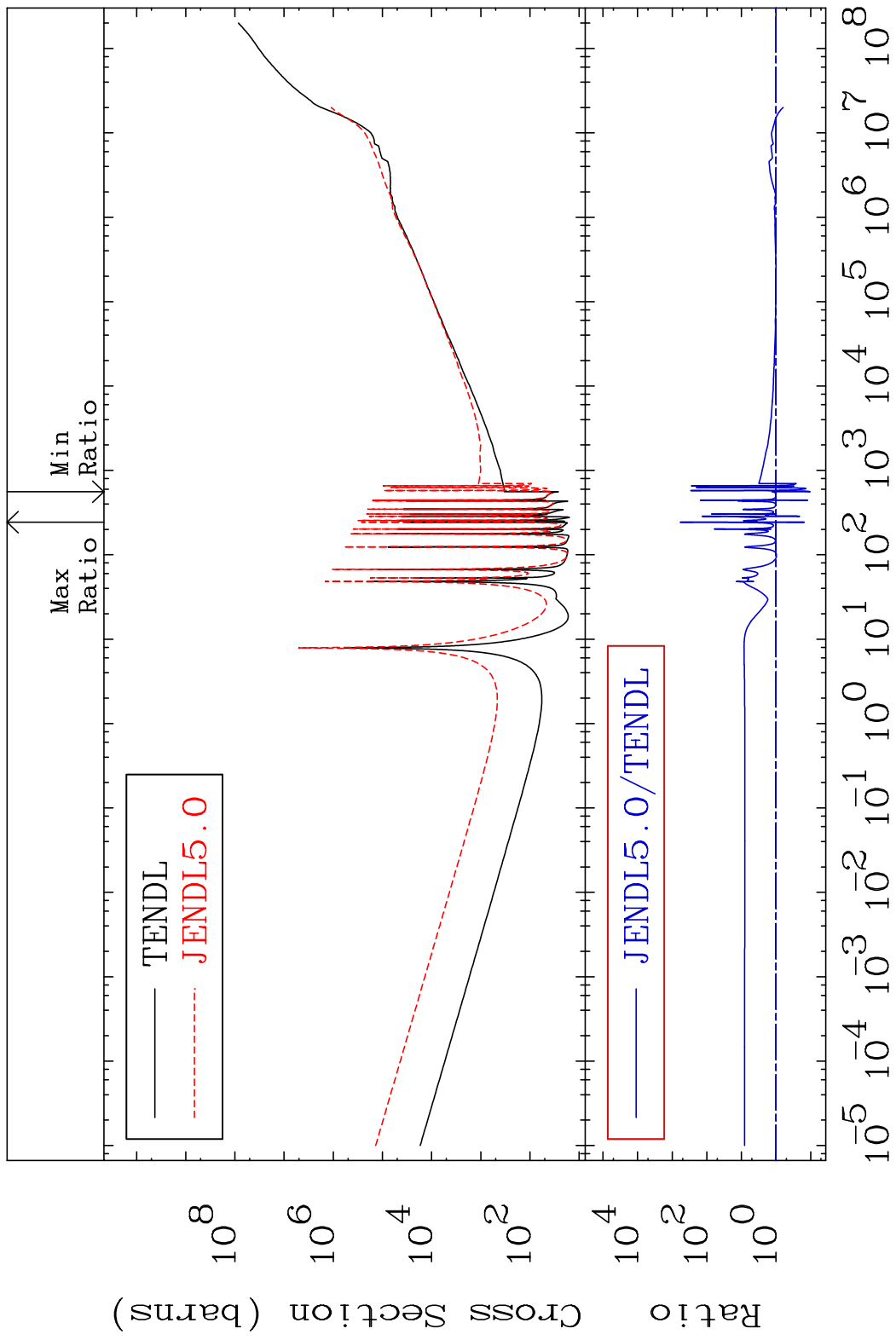
42 Incident Energy (eV) 72-Hf-176

MAT 7231 Total photon (eV-barns) 72-Hf-176
 Cross Section -99.63 To 9999. %

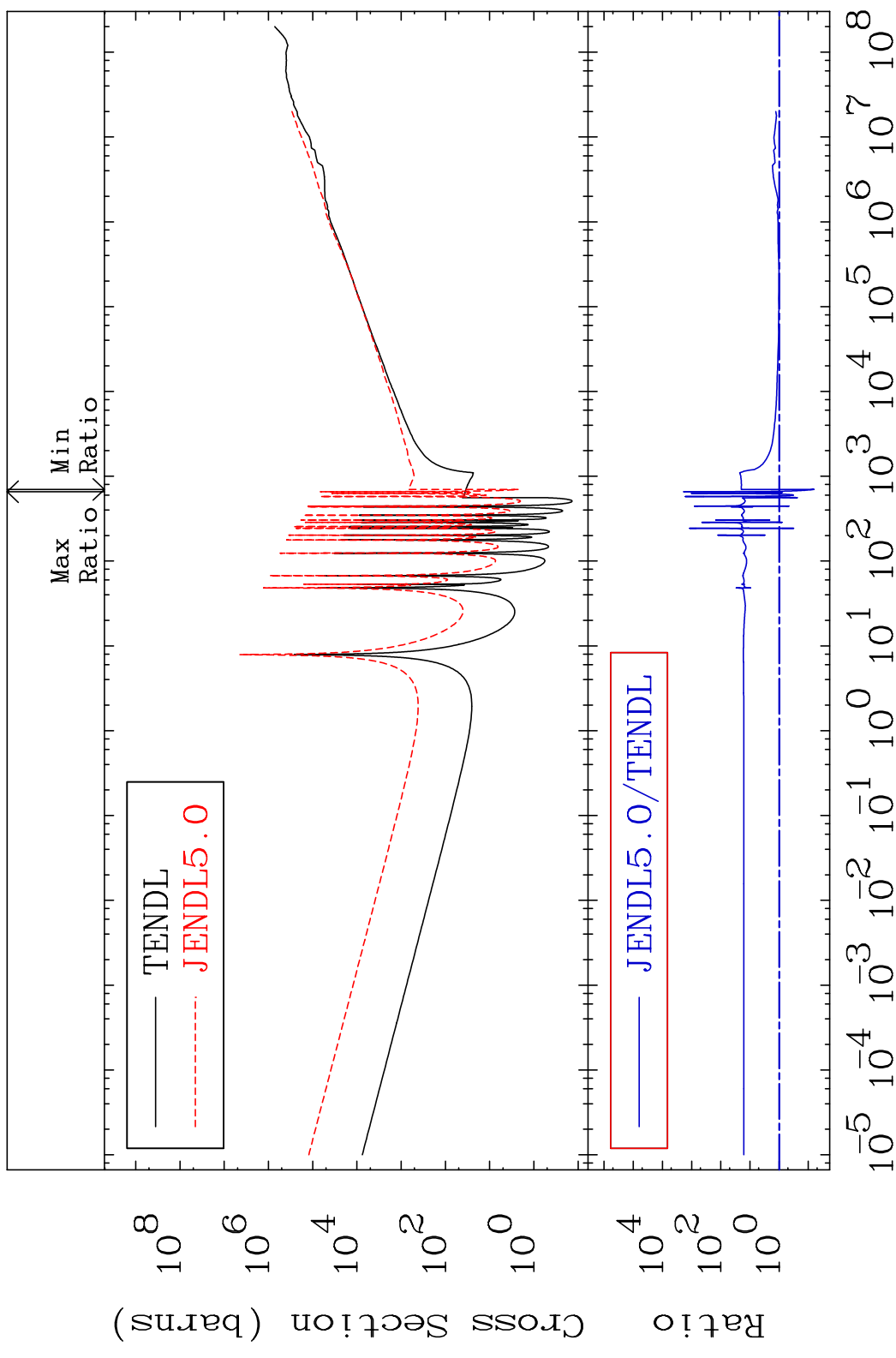


43 Incident Energy (eV) 72-Hf-176

MAT 7231 Total kinematic kerma (high limit) 72-Hf-176
 Cross Section -89.58 To 9999. %



MAT 7231 Dpa total (eV-barns) 72-Hf-176
 Cross Section -93.55 To 9999. %



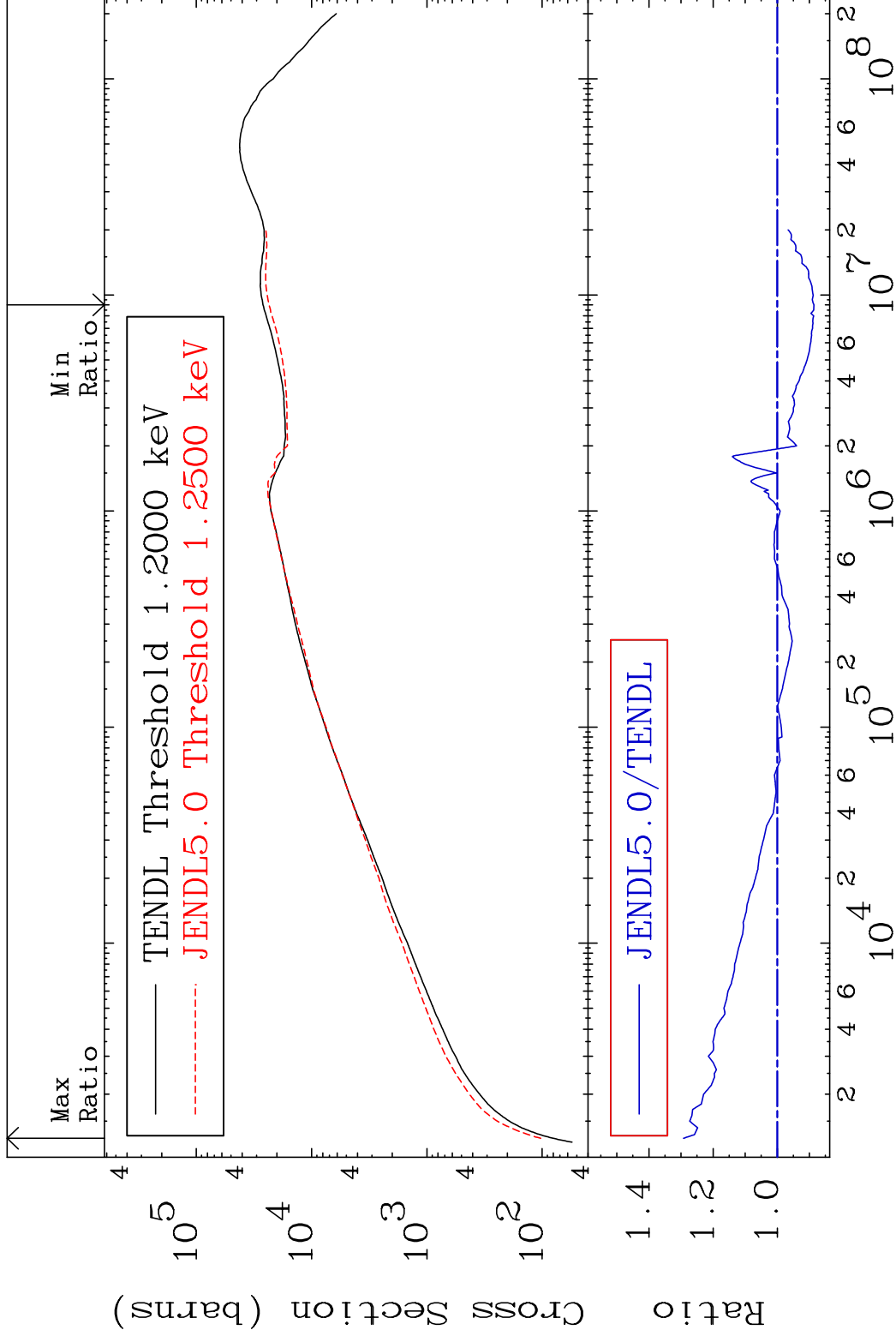
45 Incident Energy (eV) 72-Hf-176

MAT 7231

Dpa elastic (mt2)

72-Hf-176

Cross Section -11.41 To 29.23 %

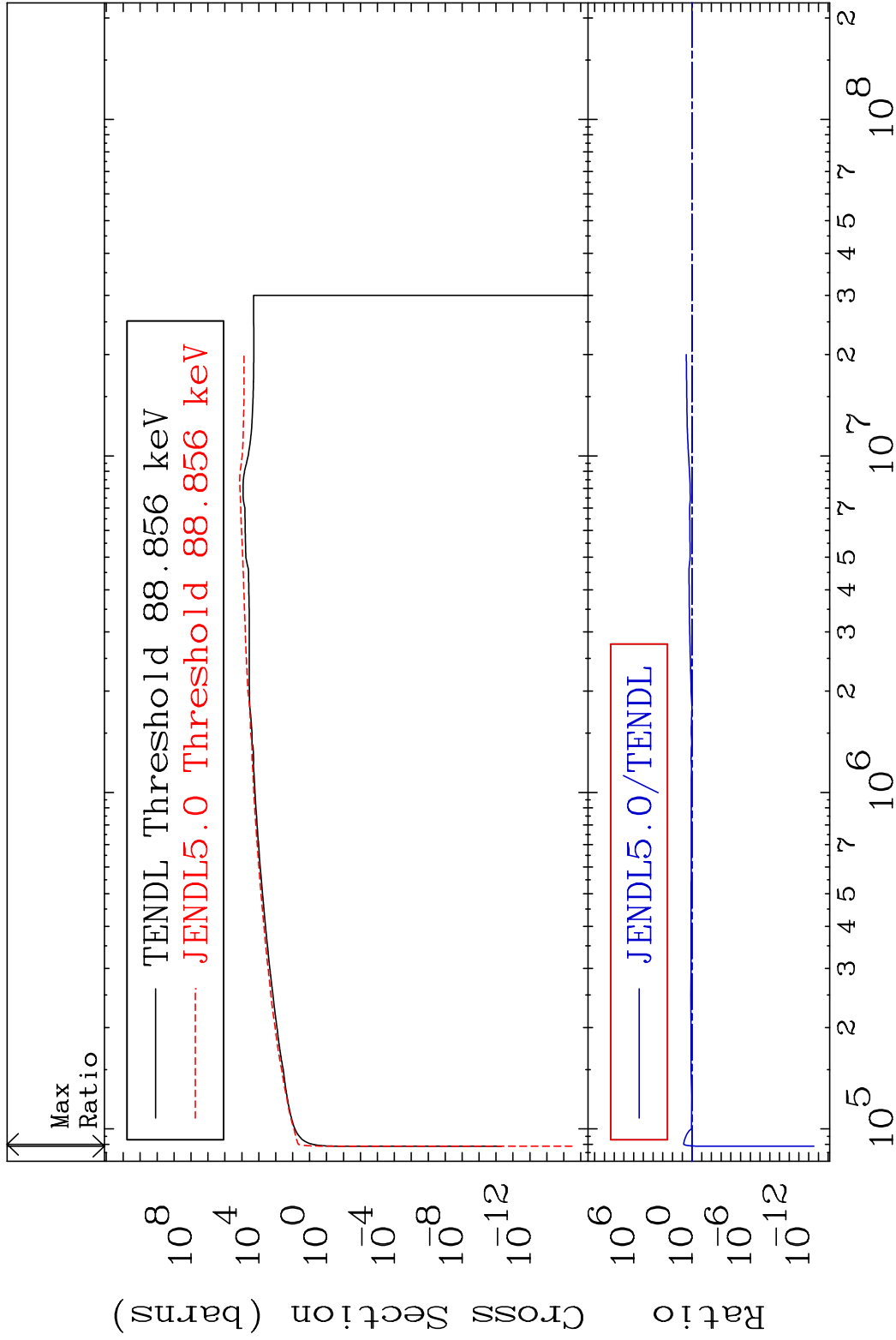


46

Incident Energy (eV)

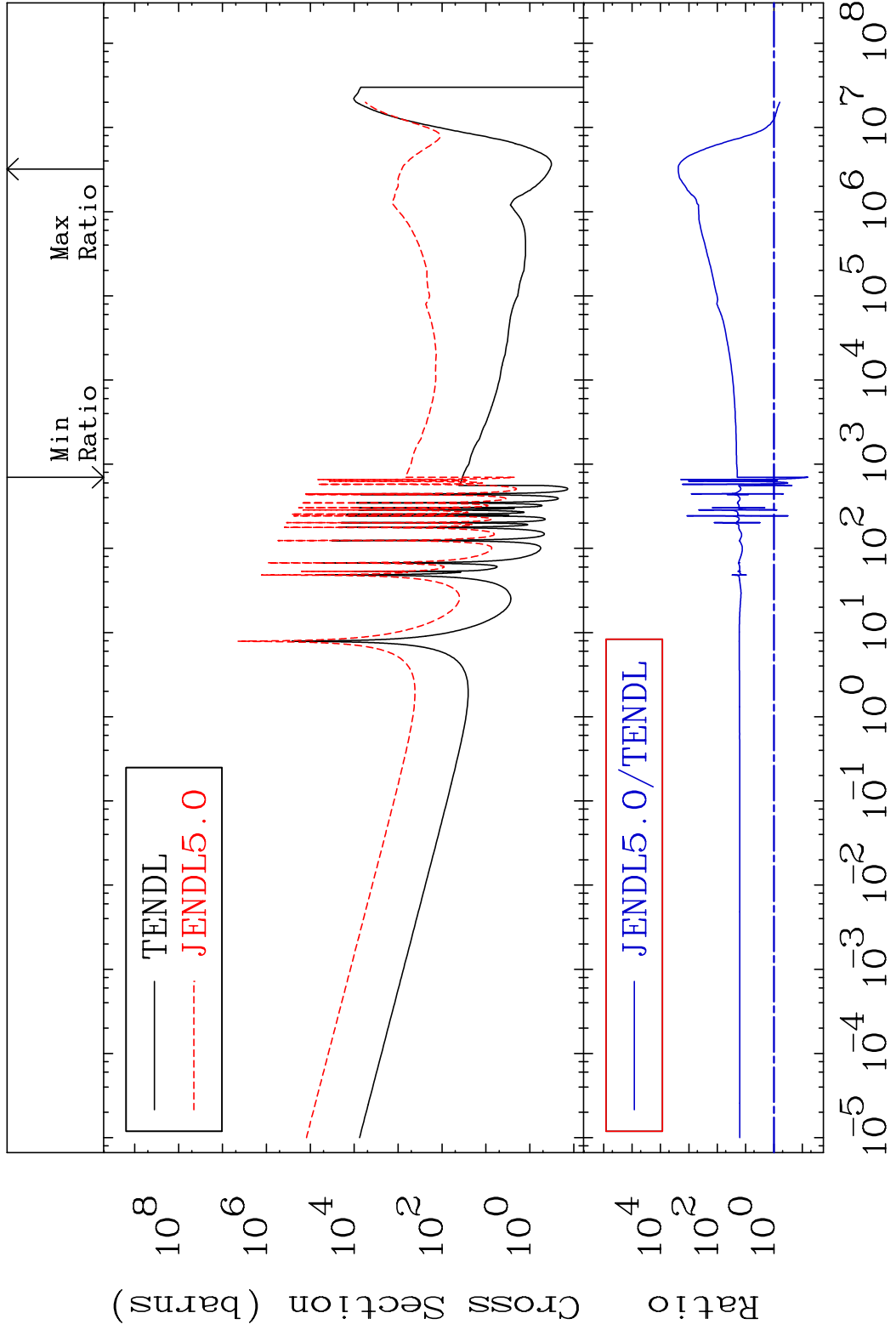
72-Hf-176

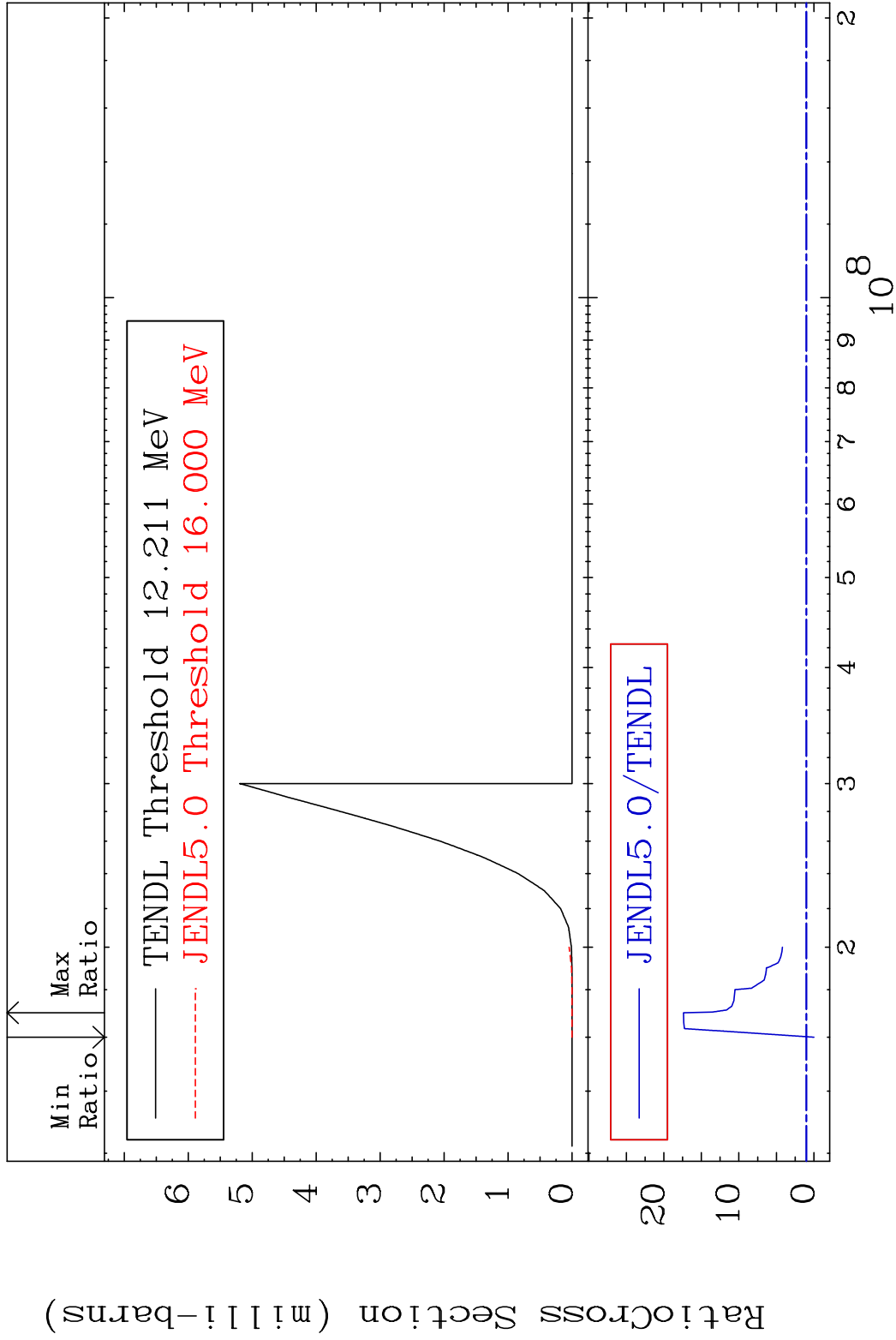
MAT 7231 Dpa inelastic (mt51-91) 72-Hf-176
Cross Section -100.0 To 652.3 %

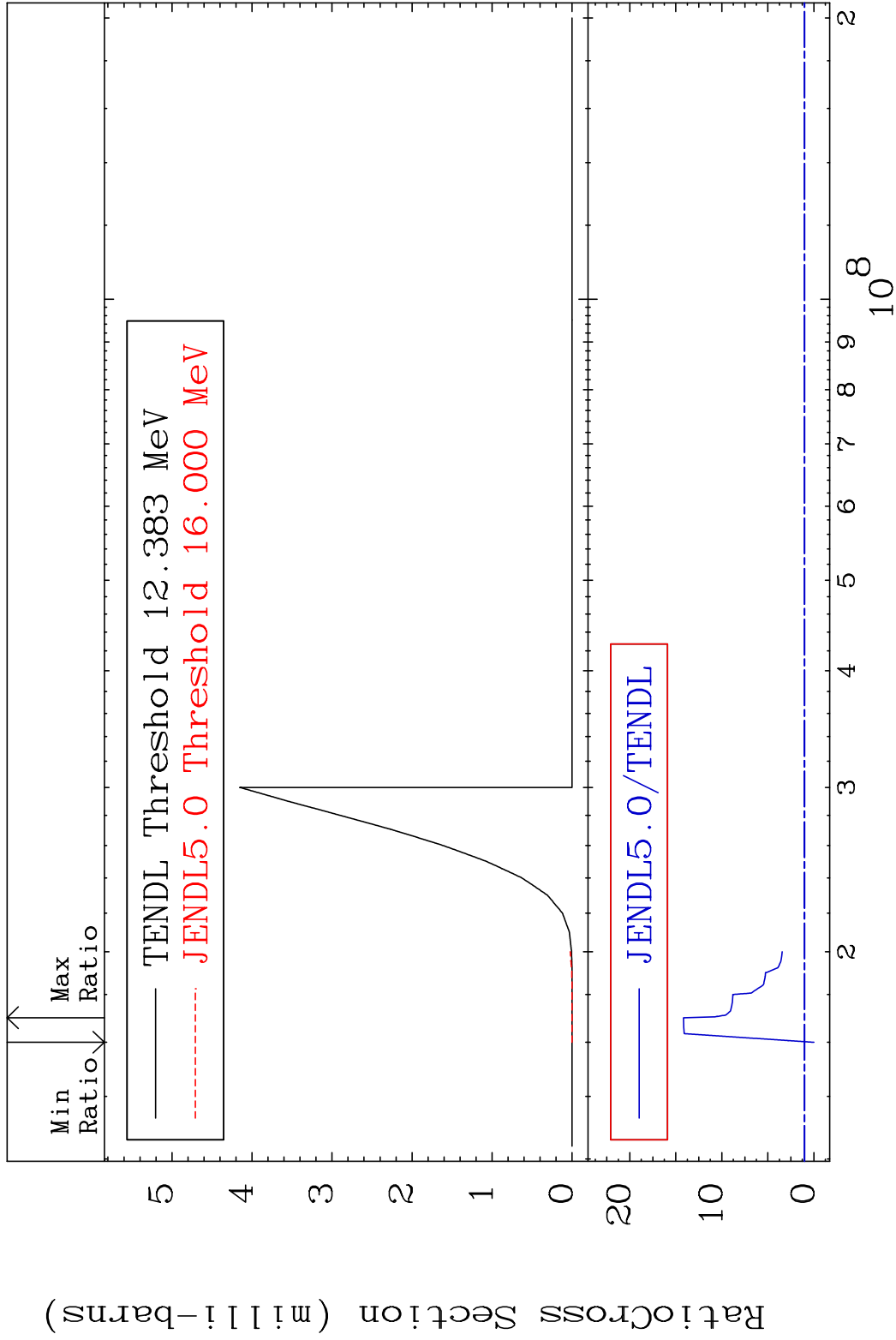


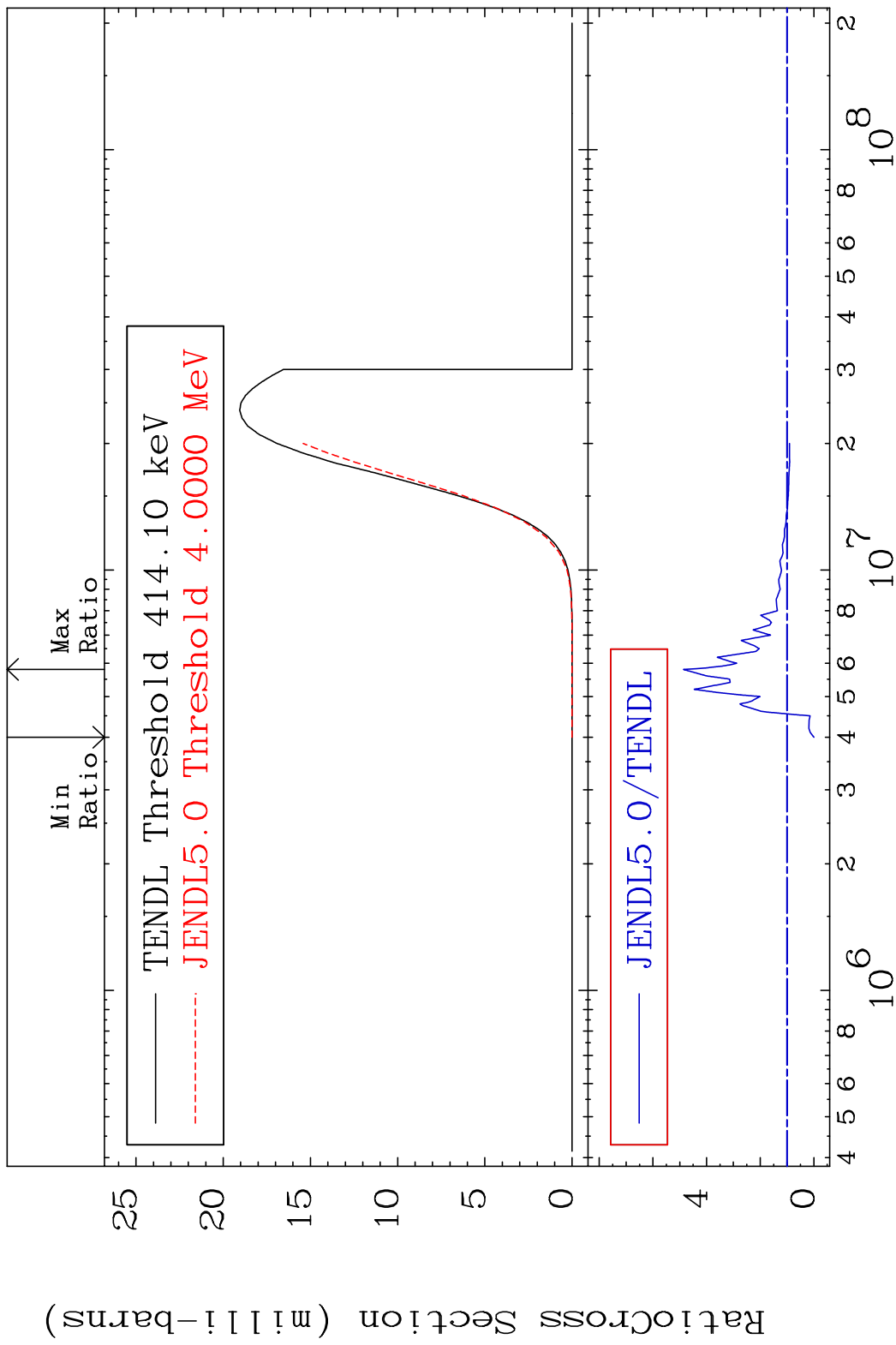
47 Incident Energy (eV) 72-Hf-176

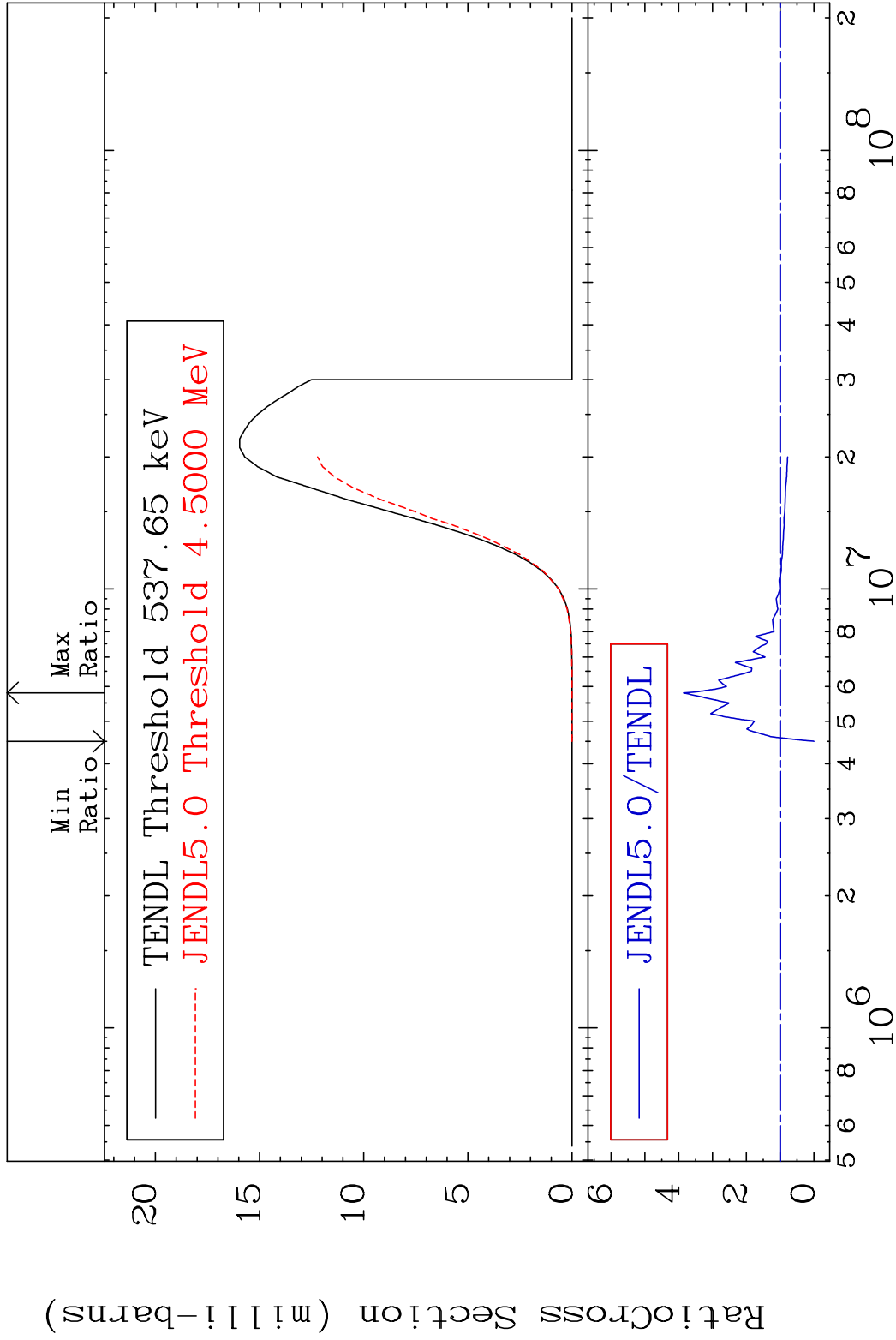
MAT 7231 Dpa disappearance (mt102 -120) 72-Hf-176
 Cross Section -93.55 To 9999. %



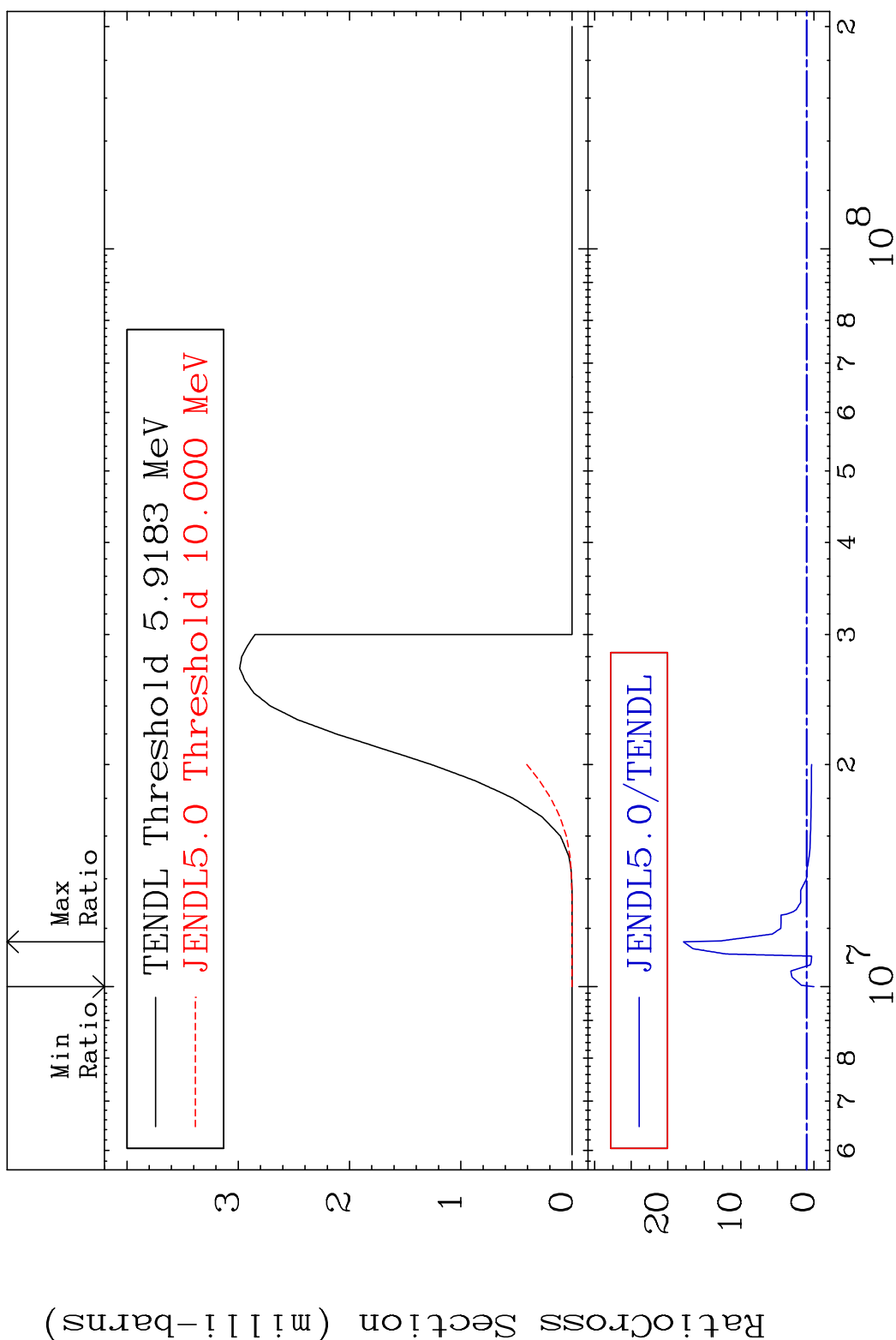








MAT 7231 (n, t): 71-Lu-174g 72-Hf-176
 Radionuclide Production Cross Section 18000 dpo 1684. %



53 Incident Energy (eV) 72-Hf-176

