

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

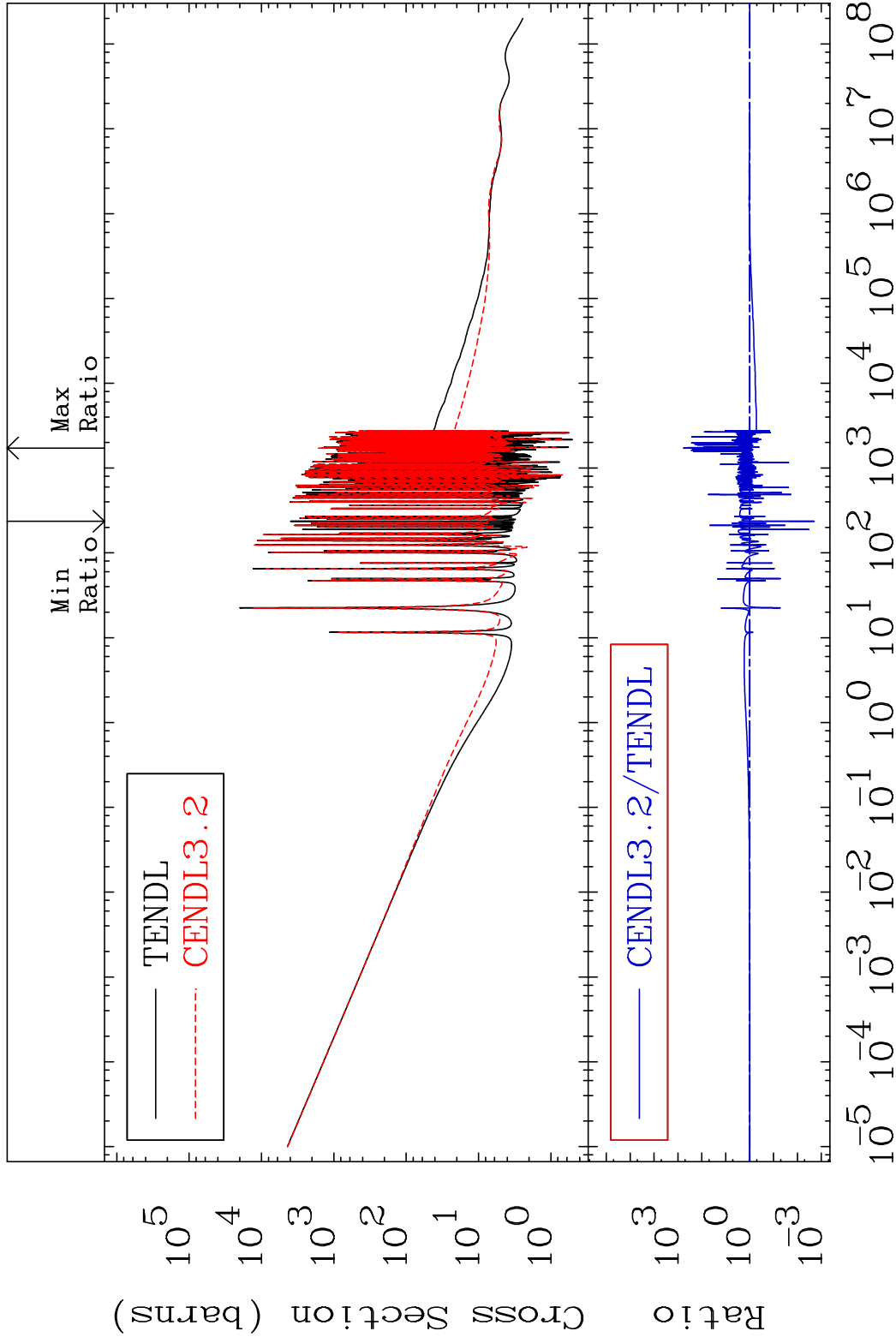
Press Mouse Button to Start

MAT 6431

Total

64-Gd-154

Cross Section -99.80 To 9999. %



1

Incident Energy (eV)

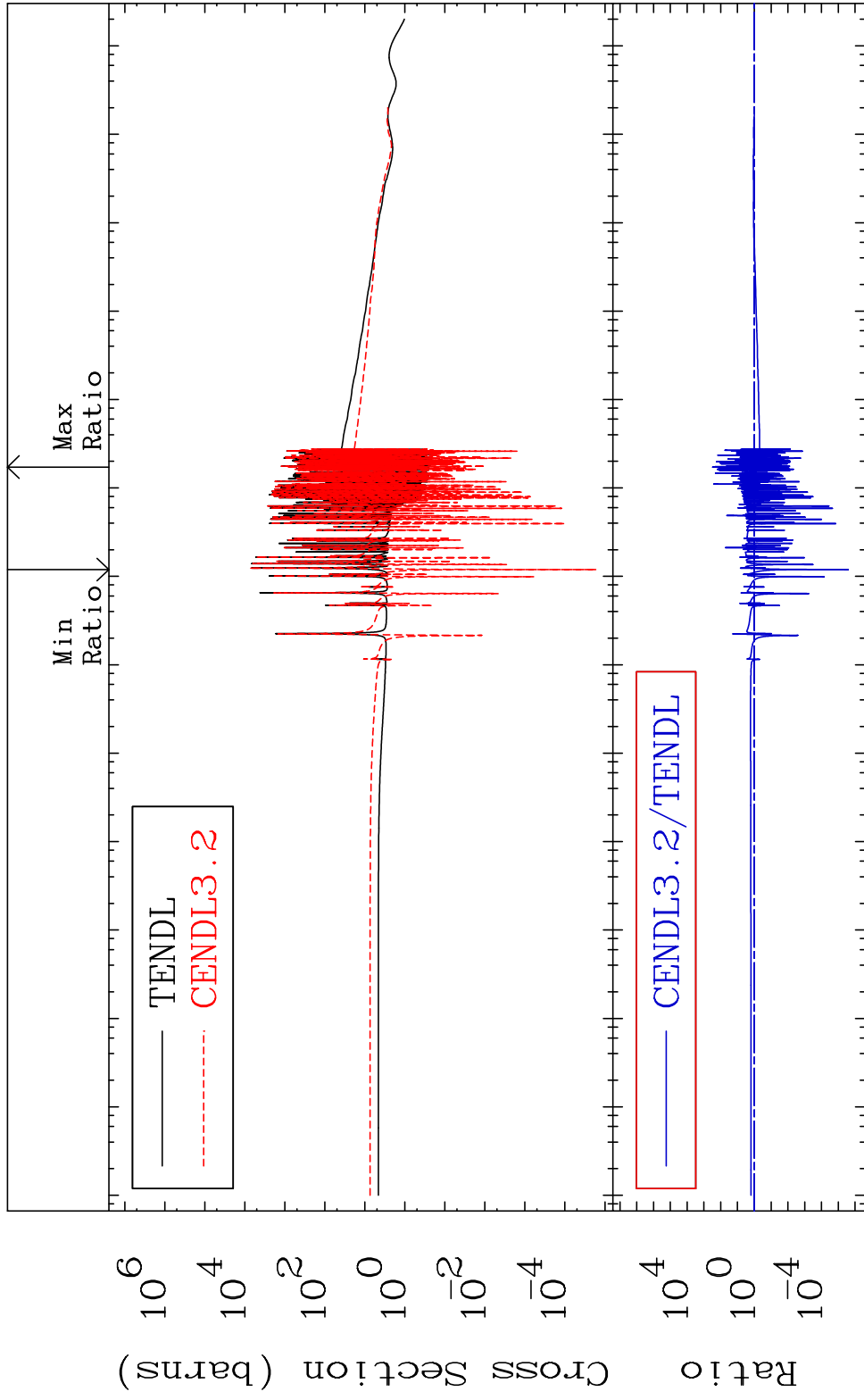
64-Gd-154

MAT 6431

Elastic

64-Gd-154

Cross Section -100.0 To 9999. %



2

Incident Energy (eV)

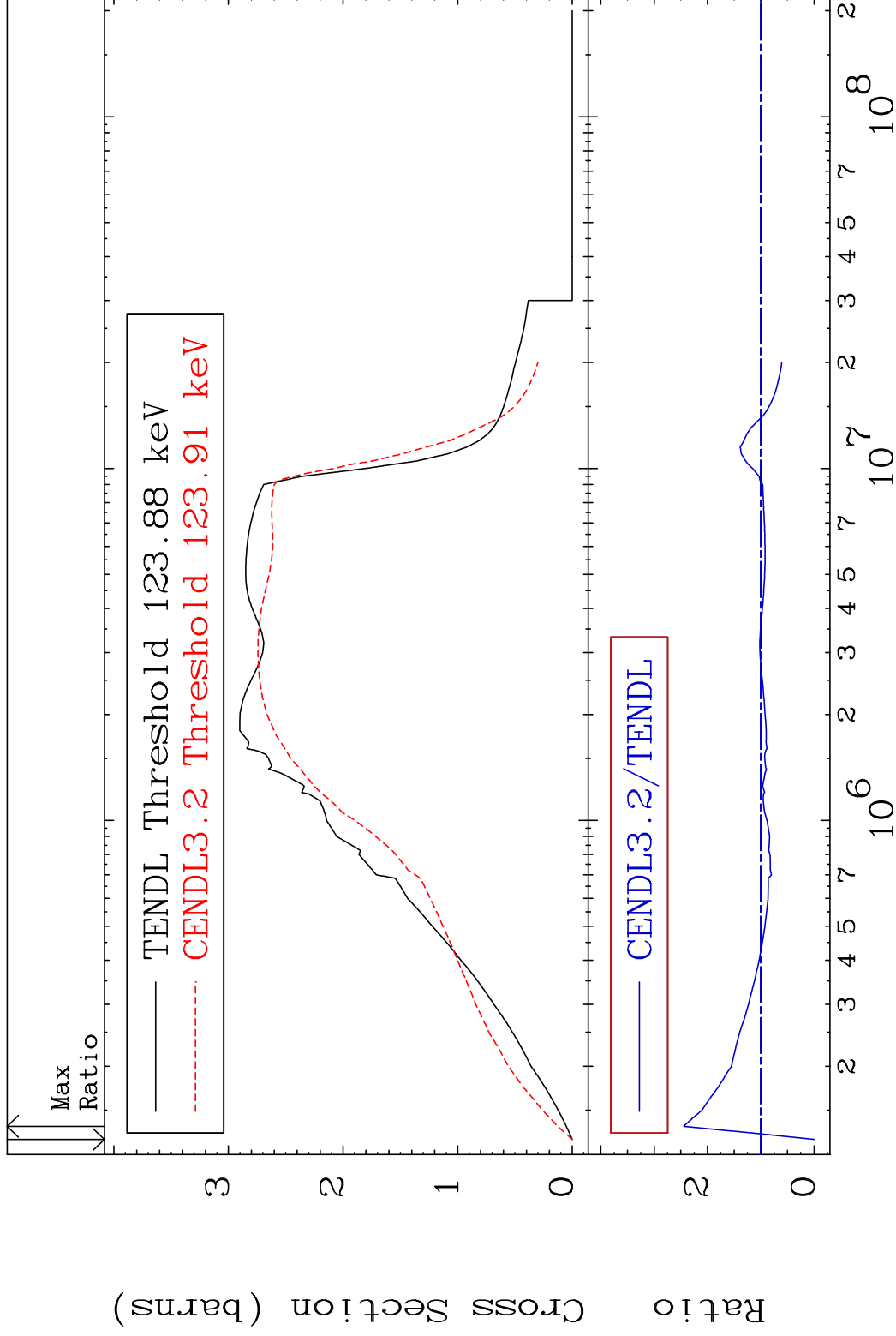
64-Gd-154

MAT 6431

Inelastic

64-Gd-154

Cross Section -100.0 To 144.7 %



3

Incident Energy (eV)

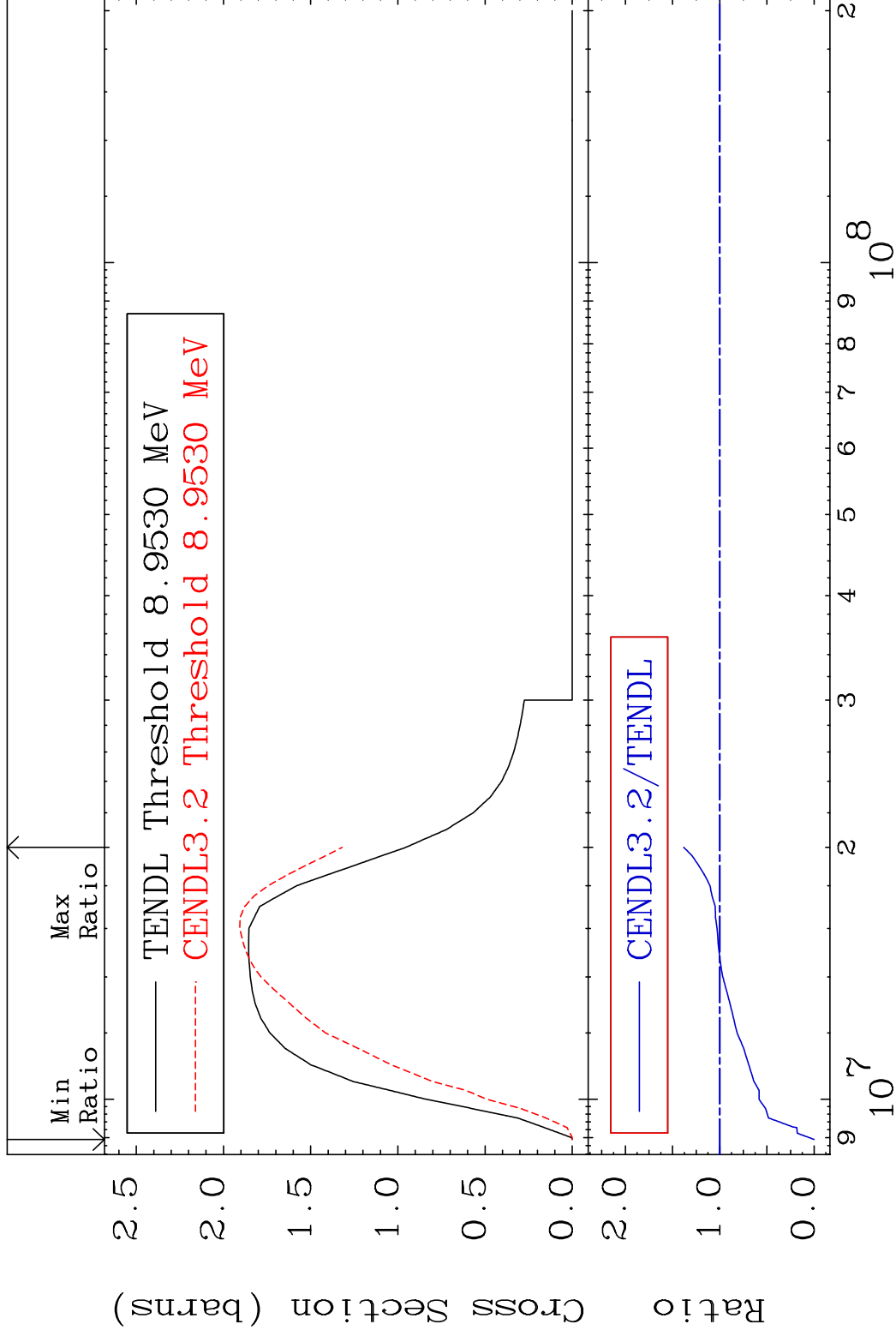
64-Gd-154

MAT 6431

(n,2n)

64-Gd-154

Cross Section -100.0 To 38.23 %



4

Incident Energy (eV)

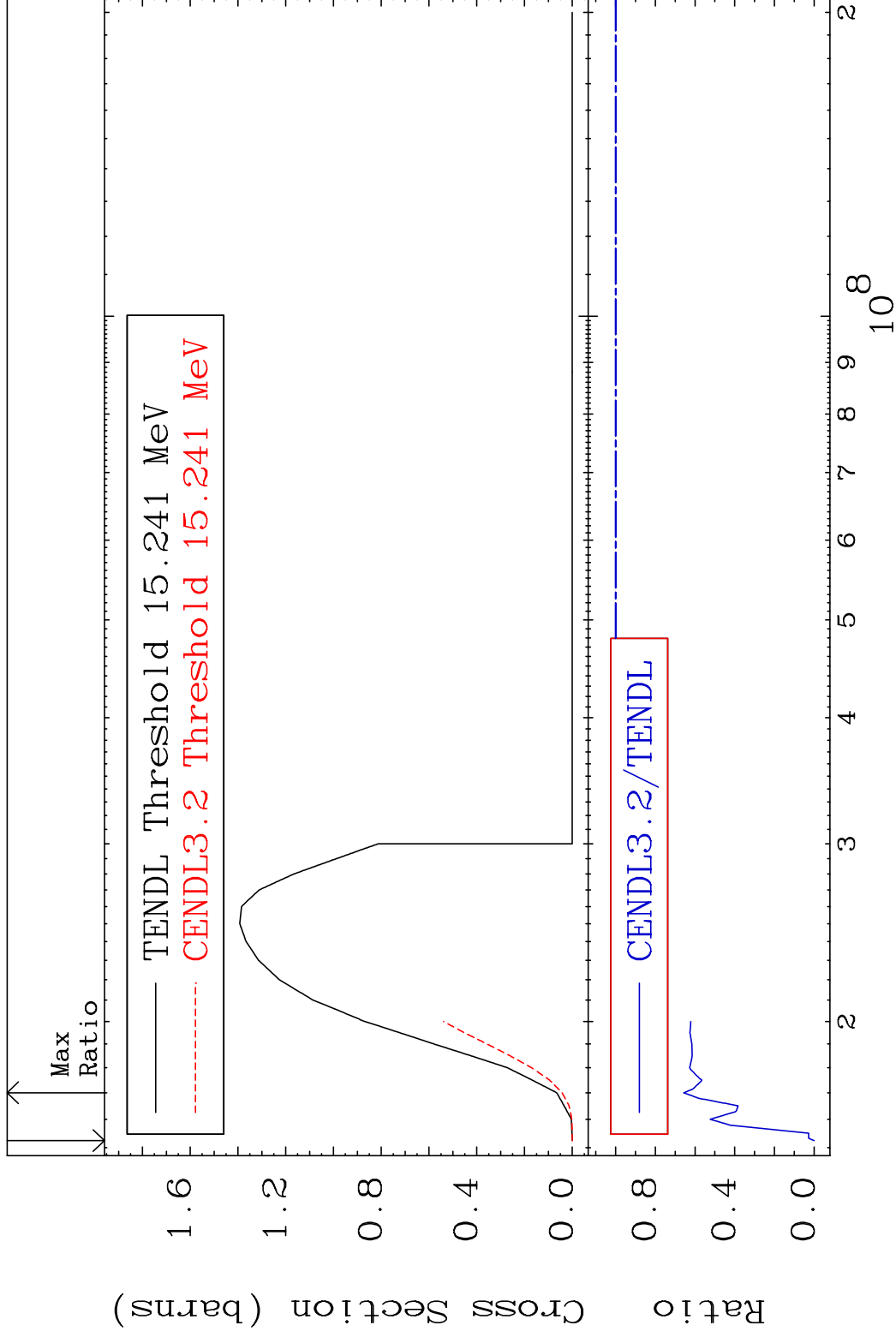
64-Gd-154

MAT 6431

(n,3n)

64-Gd-154

Cross Section -100.0 To -34.28%



5

Incident Energy (eV)

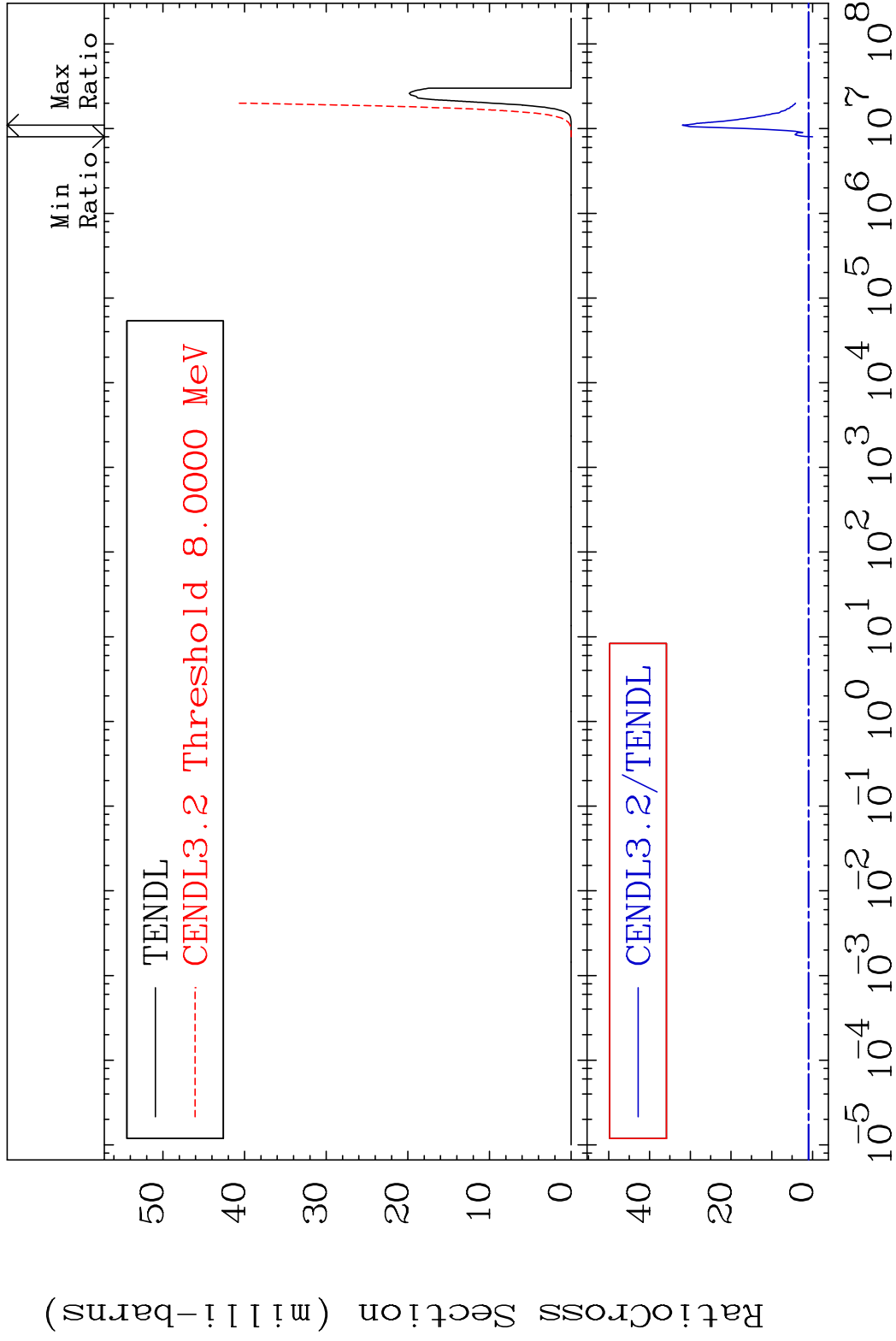
64-Gd-154

MAT 6431

(n, n') α

64-Gd-154

Cross Section -100.0 To 3095. %

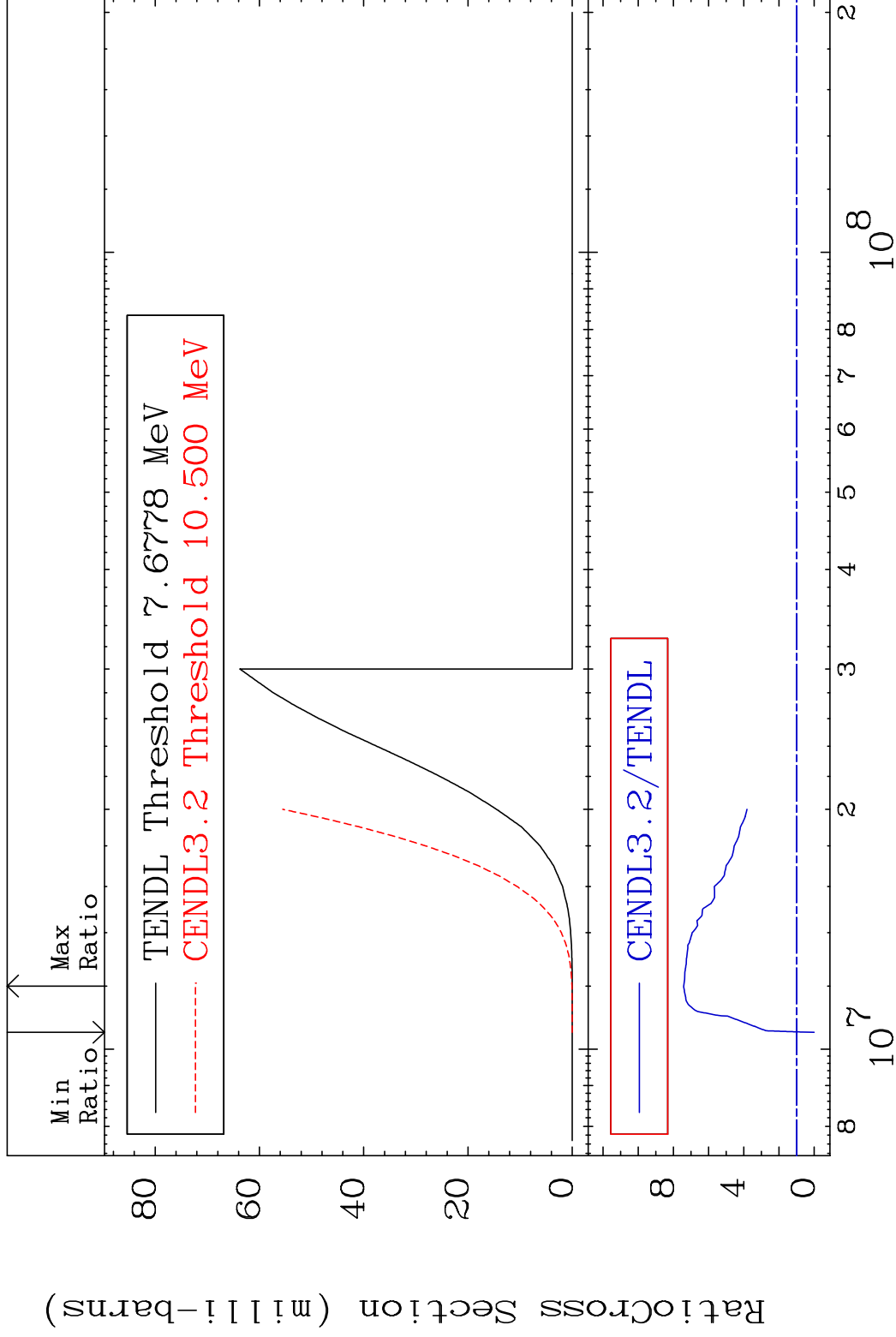


MAT 6431

64-Gd-154

(n, n') p

Cross Section -100.0 To 641.9 %

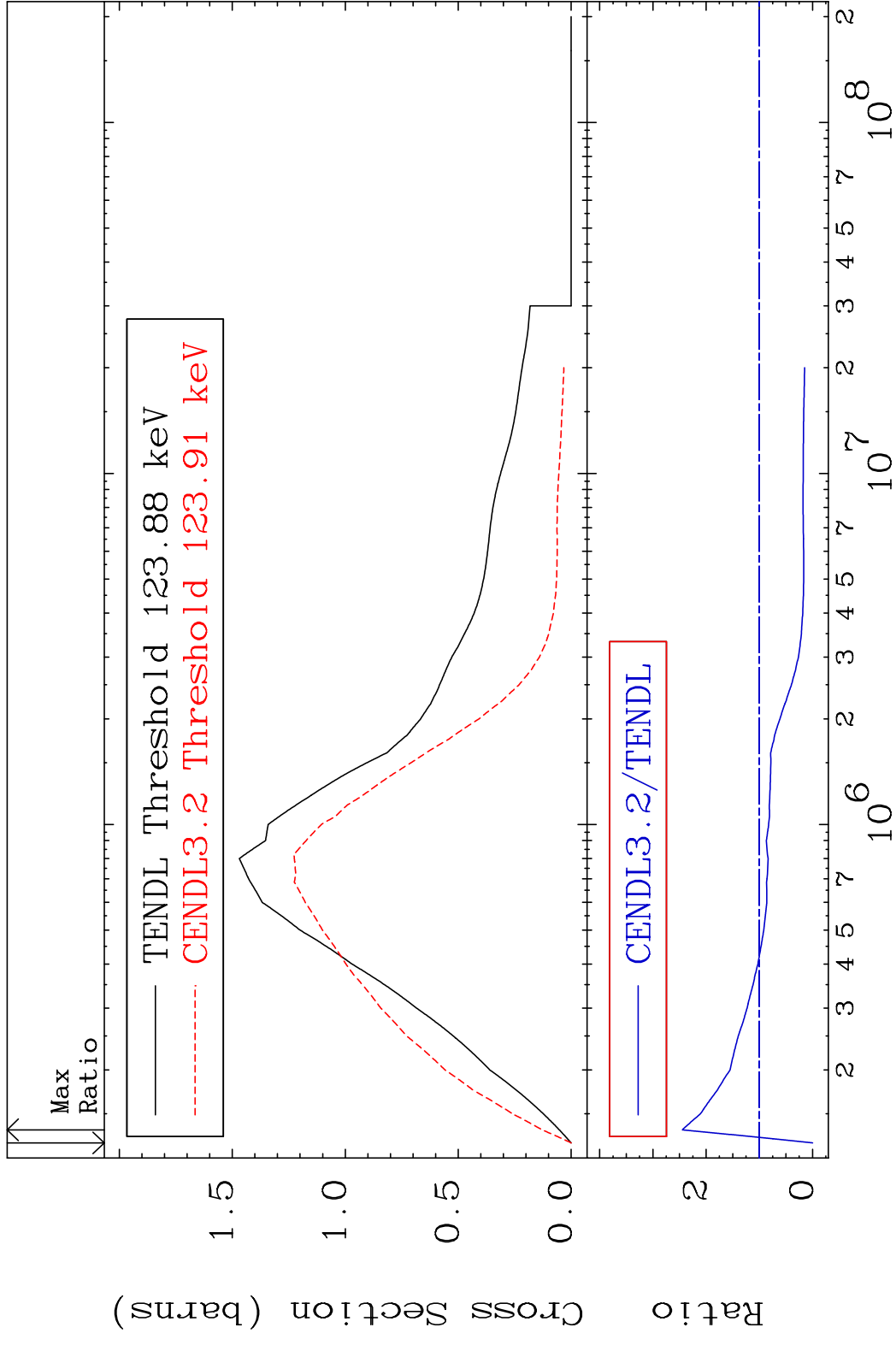


7

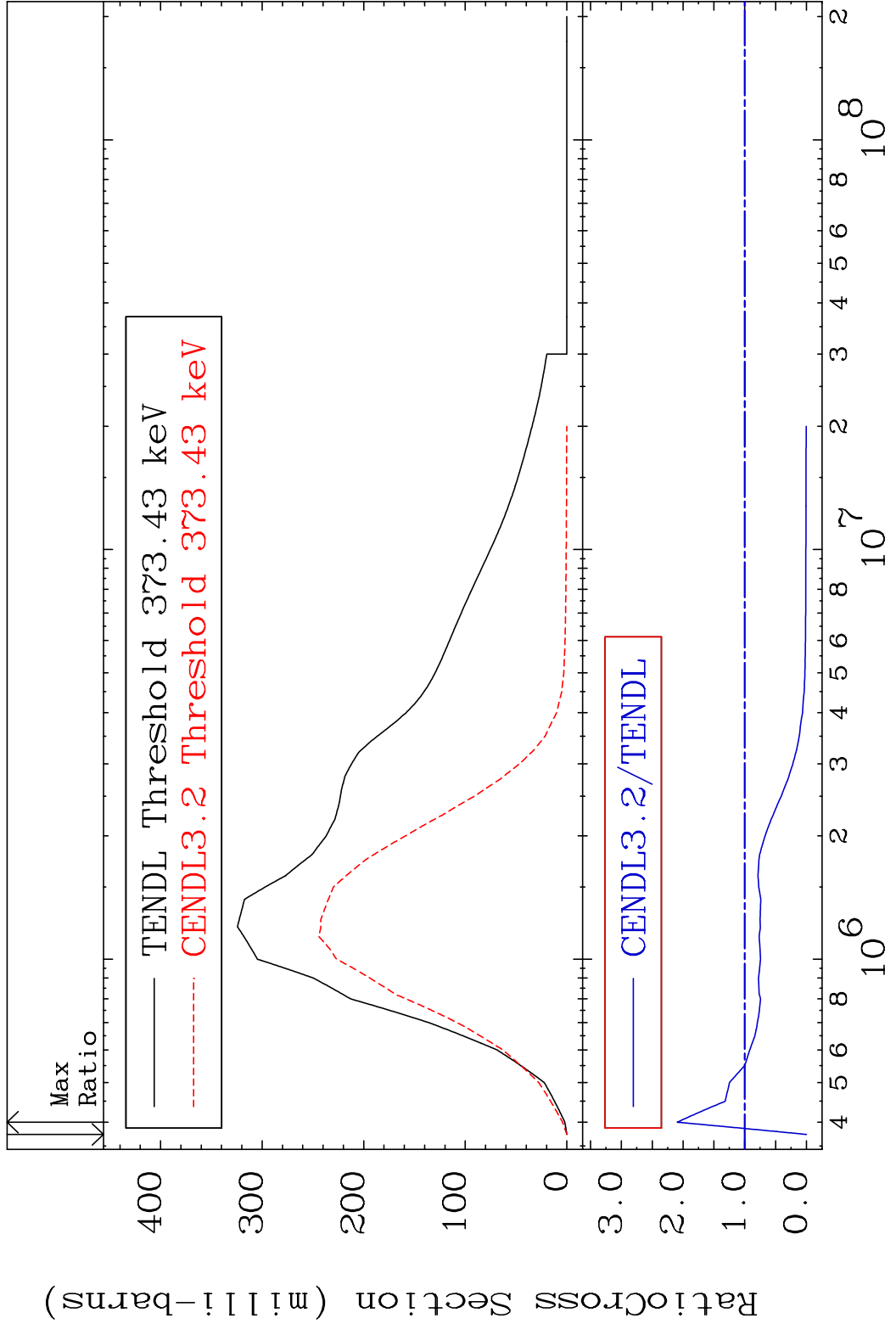
Incident Energy (eV)

64-Gd-154

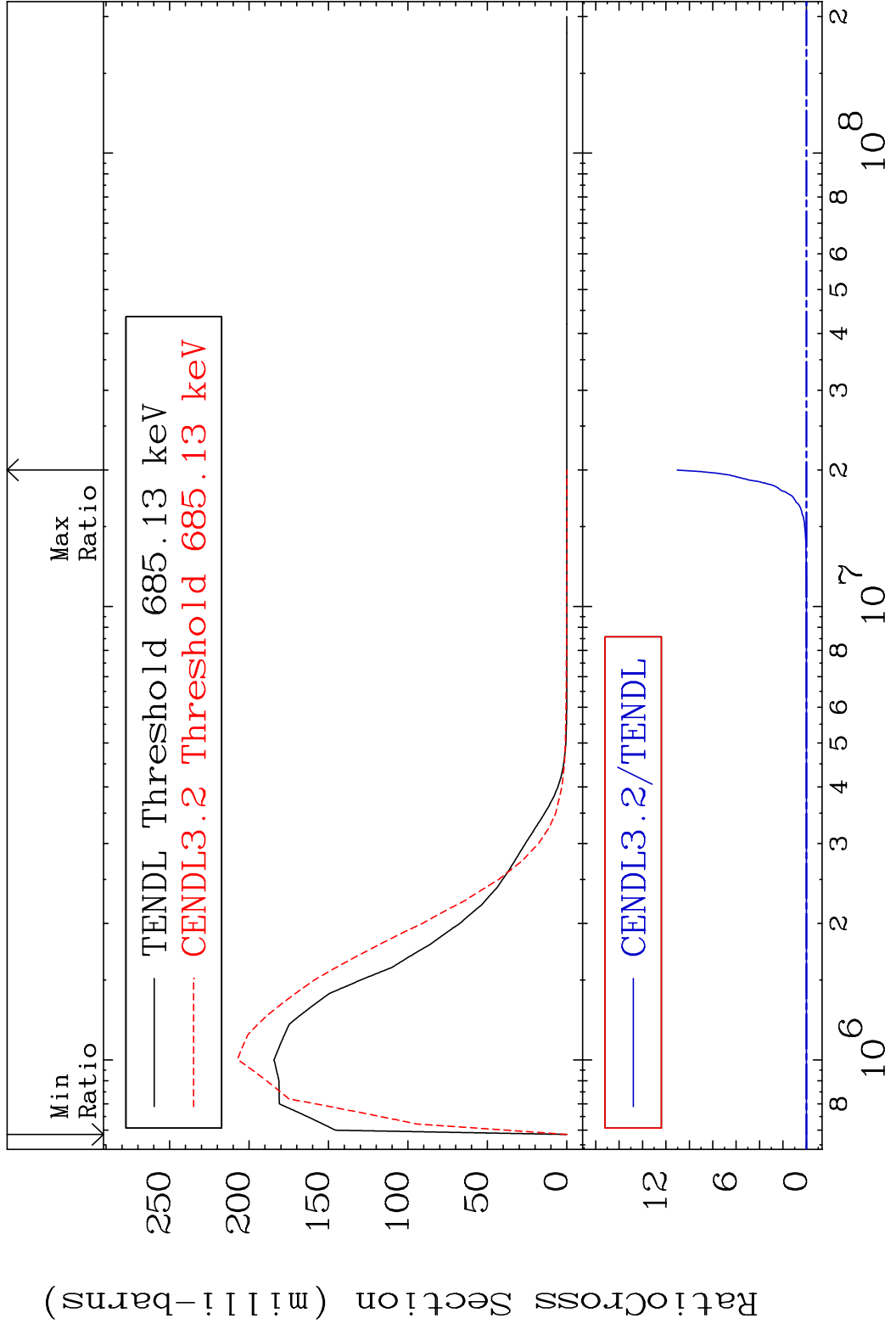
MAT 6431 MT= 51 (n, n') Level 64-Gd-154
 Cross Section -100.0 To 144.7 %



MAT 6431 MT= 52 (n,n') Level 64-Gd-154
 Cross Section -100.0 To 109.5 %

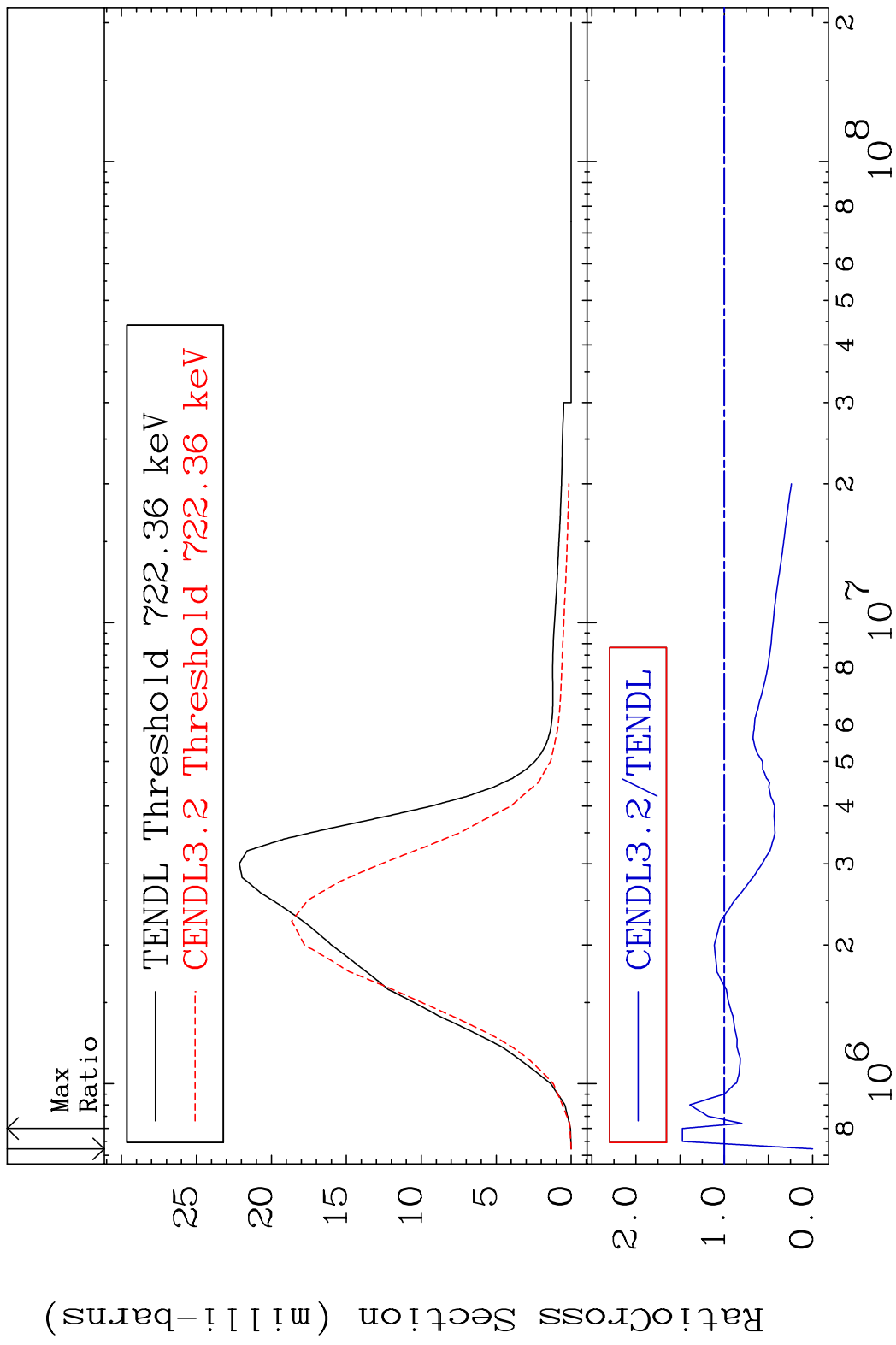


MAT 6431 MT= 53 (n, n') Level 64-Gd-154
 Cross Section -100.0 To 9999. %

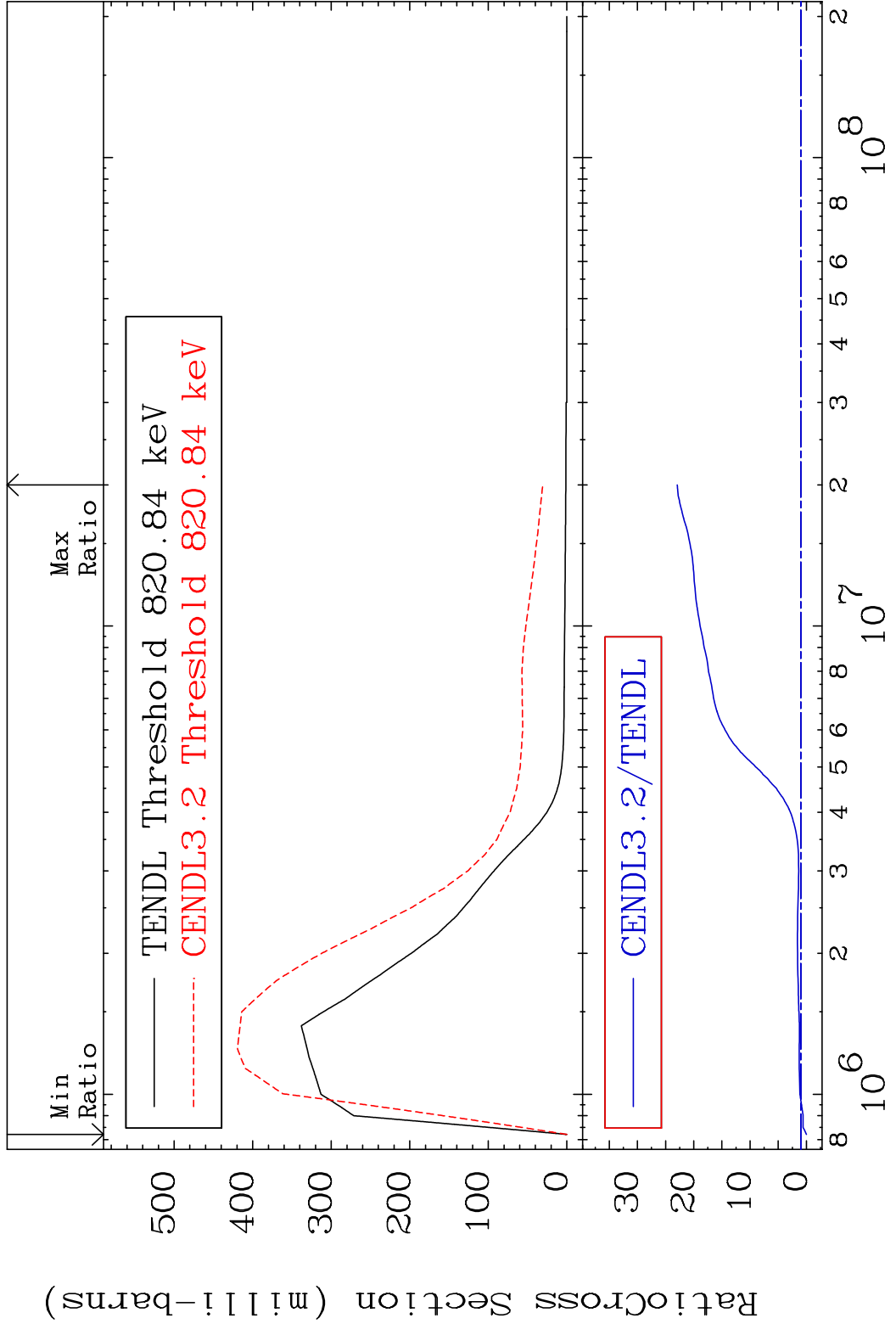


10 Incident Energy (eV) 64-Gd-154

MAT 6431 MT= 54 (n,n') Level 64-Gd-154
 Cross Section -100.0 To 47.45 %

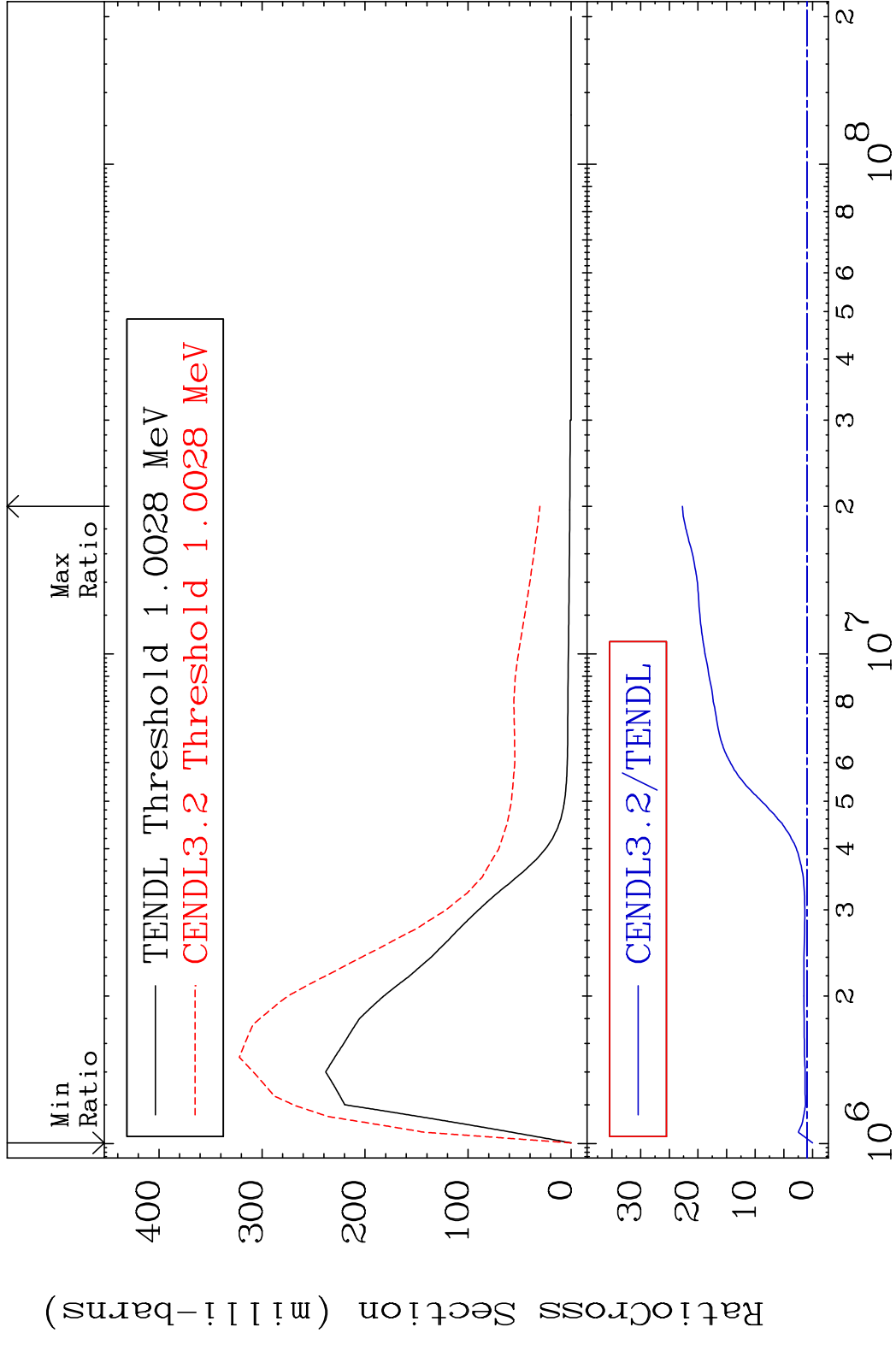


MAT 6431 MT= 55 (n, n') Level 64-Gd-154
 Cross Section -100.0 To 2194. %



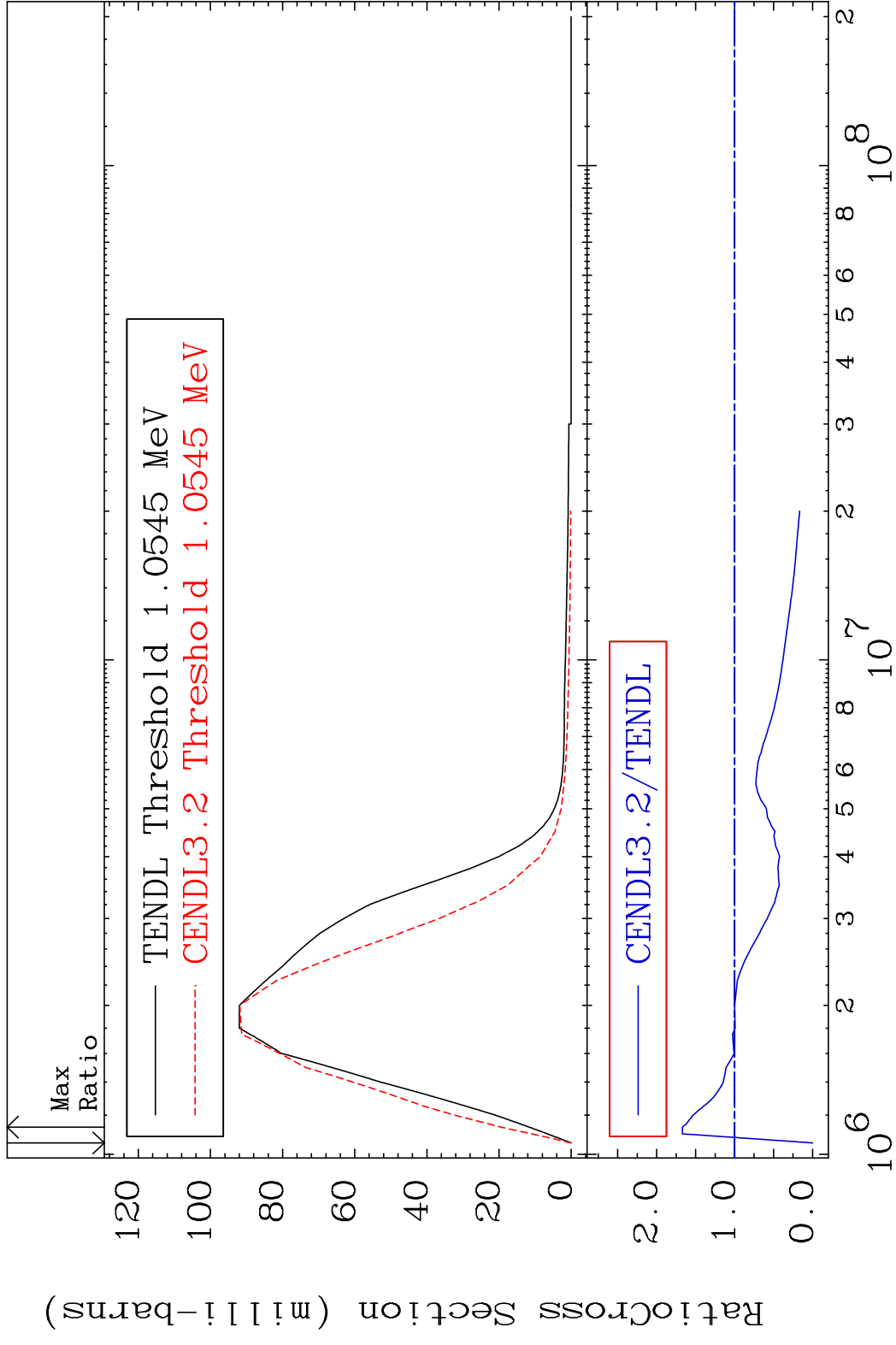
12 Incident Energy (eV) 64-Gd-154

MAT 6431 MT= 56 (n, n') Level 64-Gd-154
 Cross Section -100.0 To 2172. %

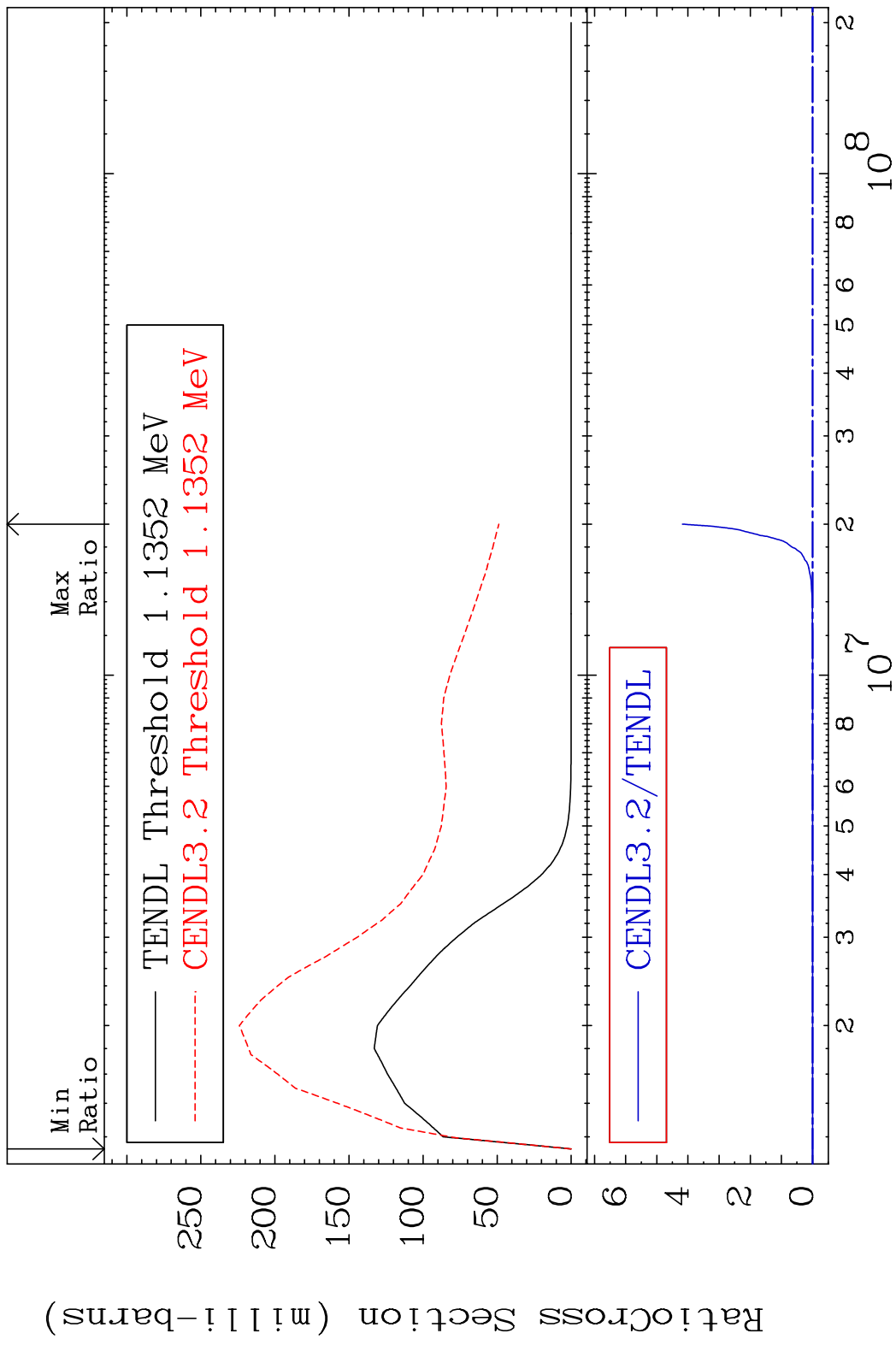


13 Incident Energy (eV) 64-Gd-154

MAT 6431 MT= 57 (n,n') Level 64-Gd-154
 Cross Section -100.0 To 67.03 %



MAT 6431 MT= 58 (n, n') Level 64-Gd-154
 Cross Section -100.0 To 9999. %

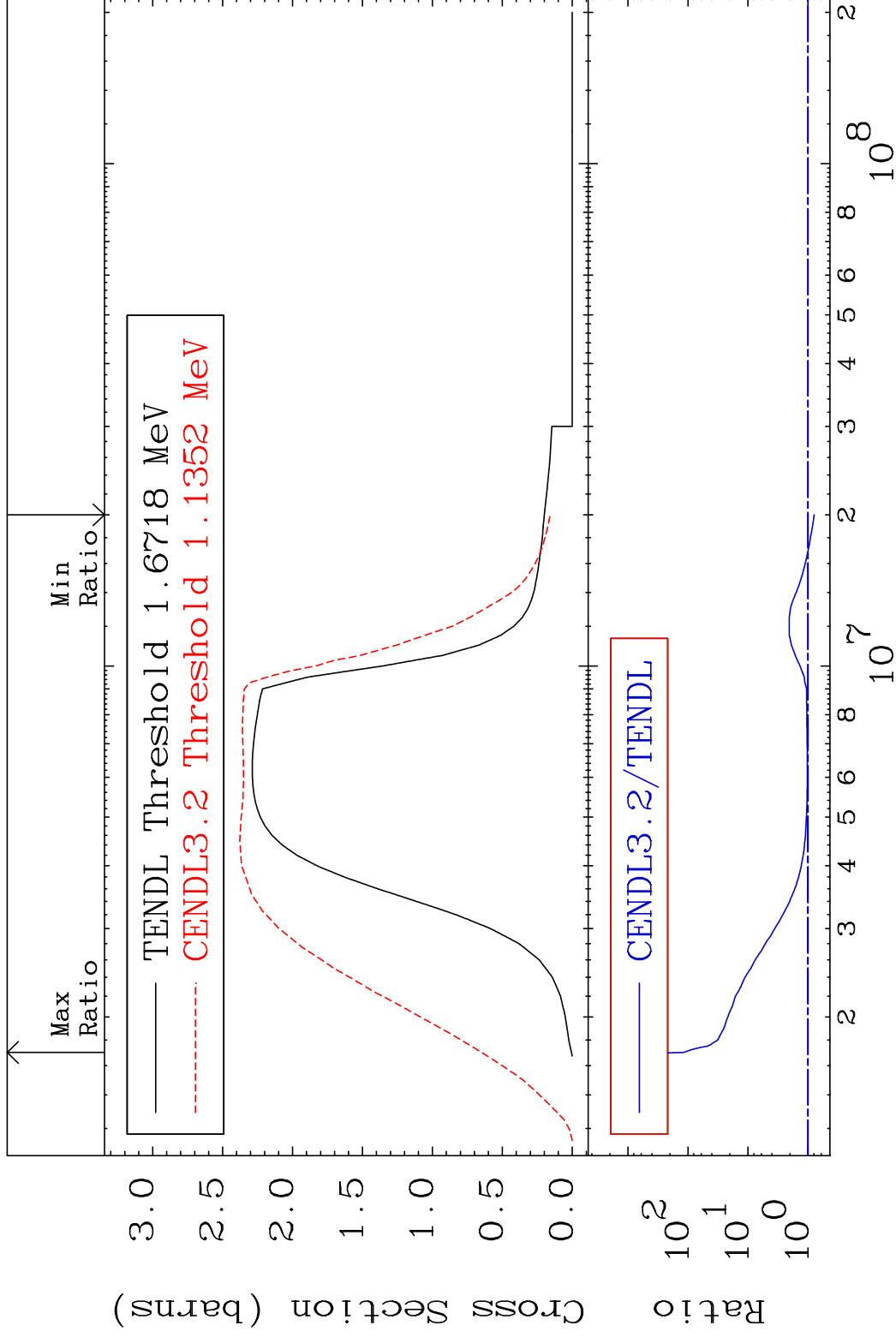


MAT 6431

(n, n') Continuum

64-Gd-154

Cross Section -20.85 To 9999. %

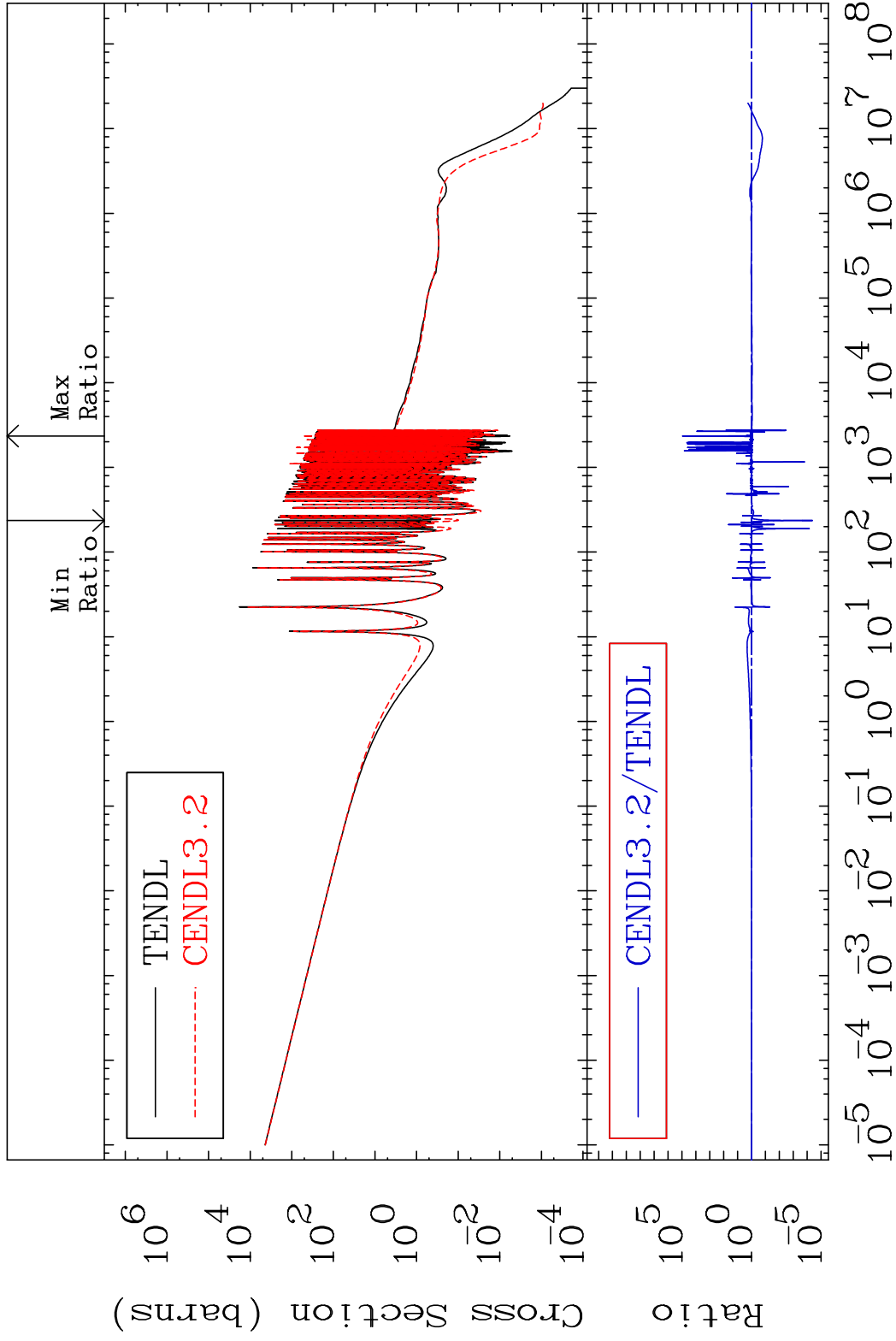


MAT 6431

(n, γ)

64-Gd-154

Cross Section -100.0 To 9999. %

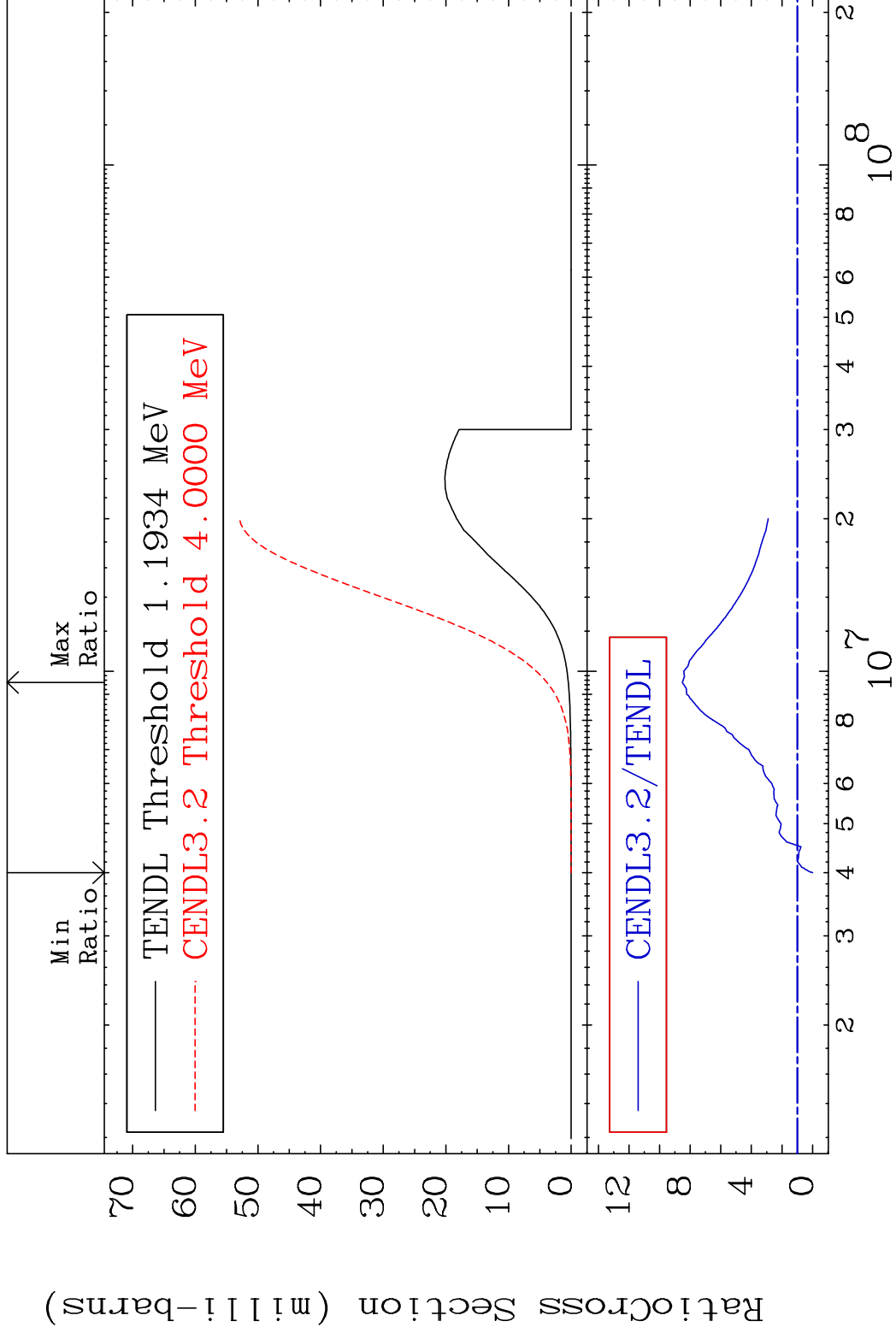


MAT 6431

(n,p)

64-Gd-154

Cross Section -100.0 To 751.2 %

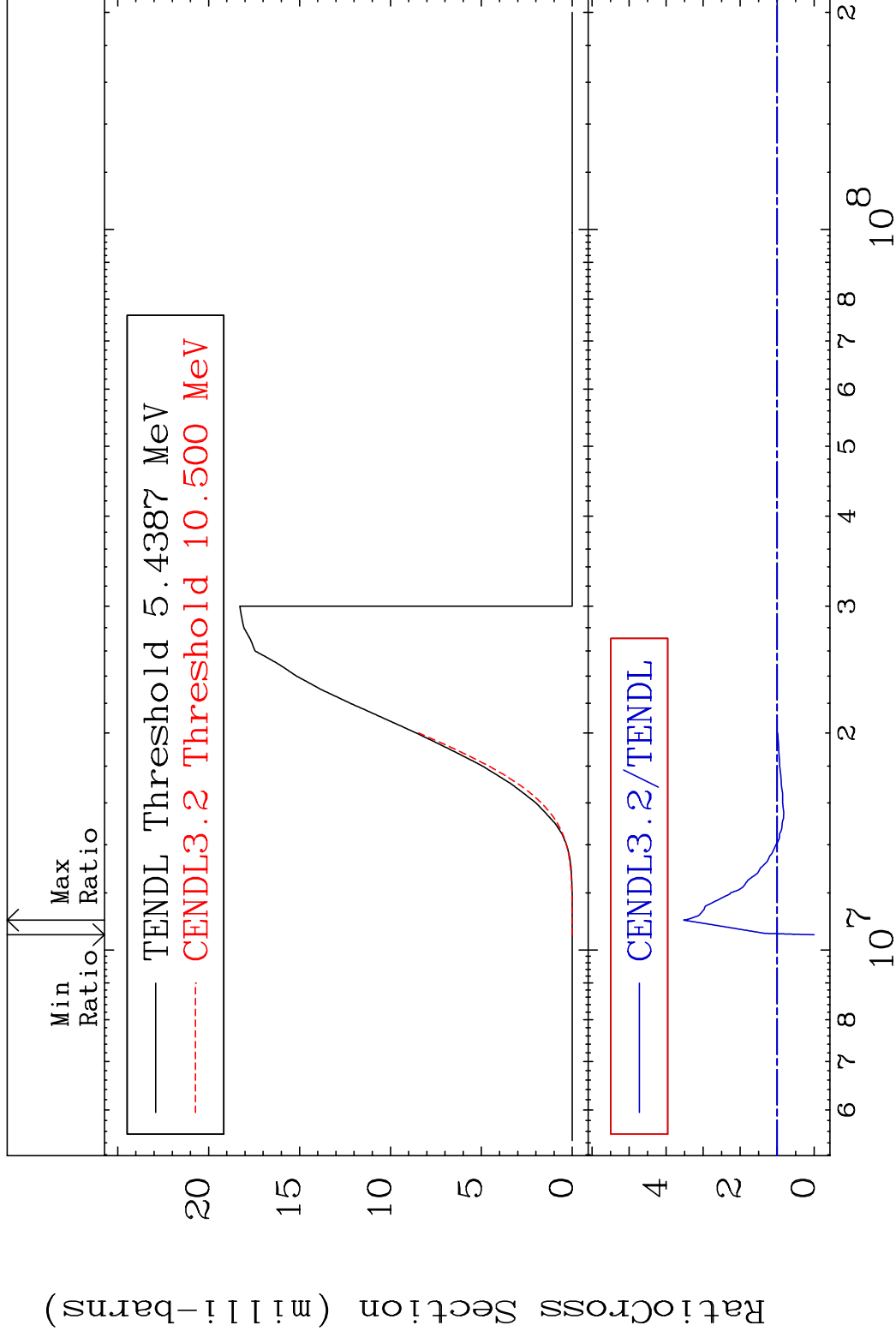


MAT 6431

(n, d)

64-Gd-154

Cross Section -100.0 To 252.4 %



19

Incident Energy (eV)

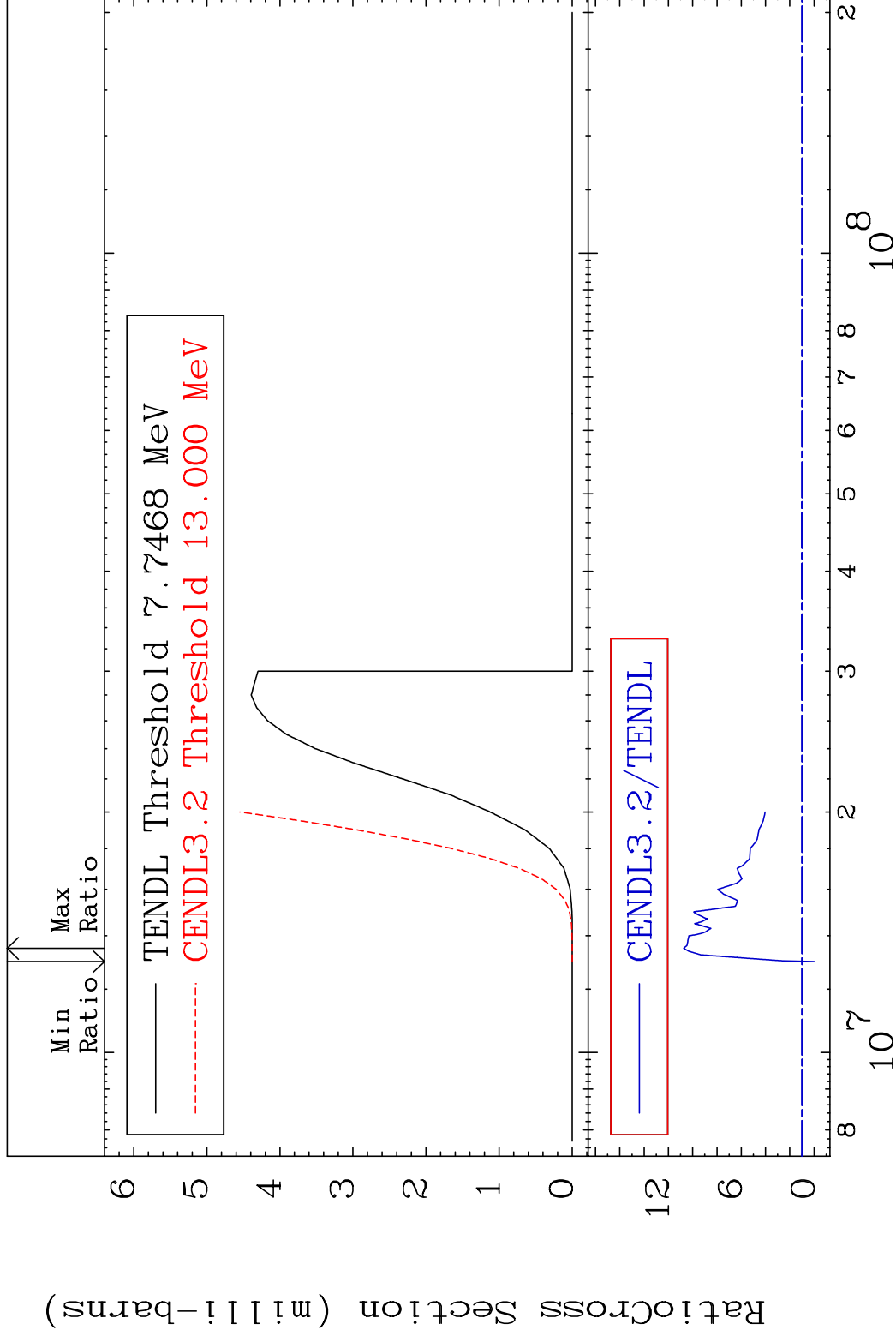
64-Gd-154

MAT 6431

(n, t)

64-Gd-154

Cross Section -100.0 To 974.3 %



20

Incident Energy (eV)

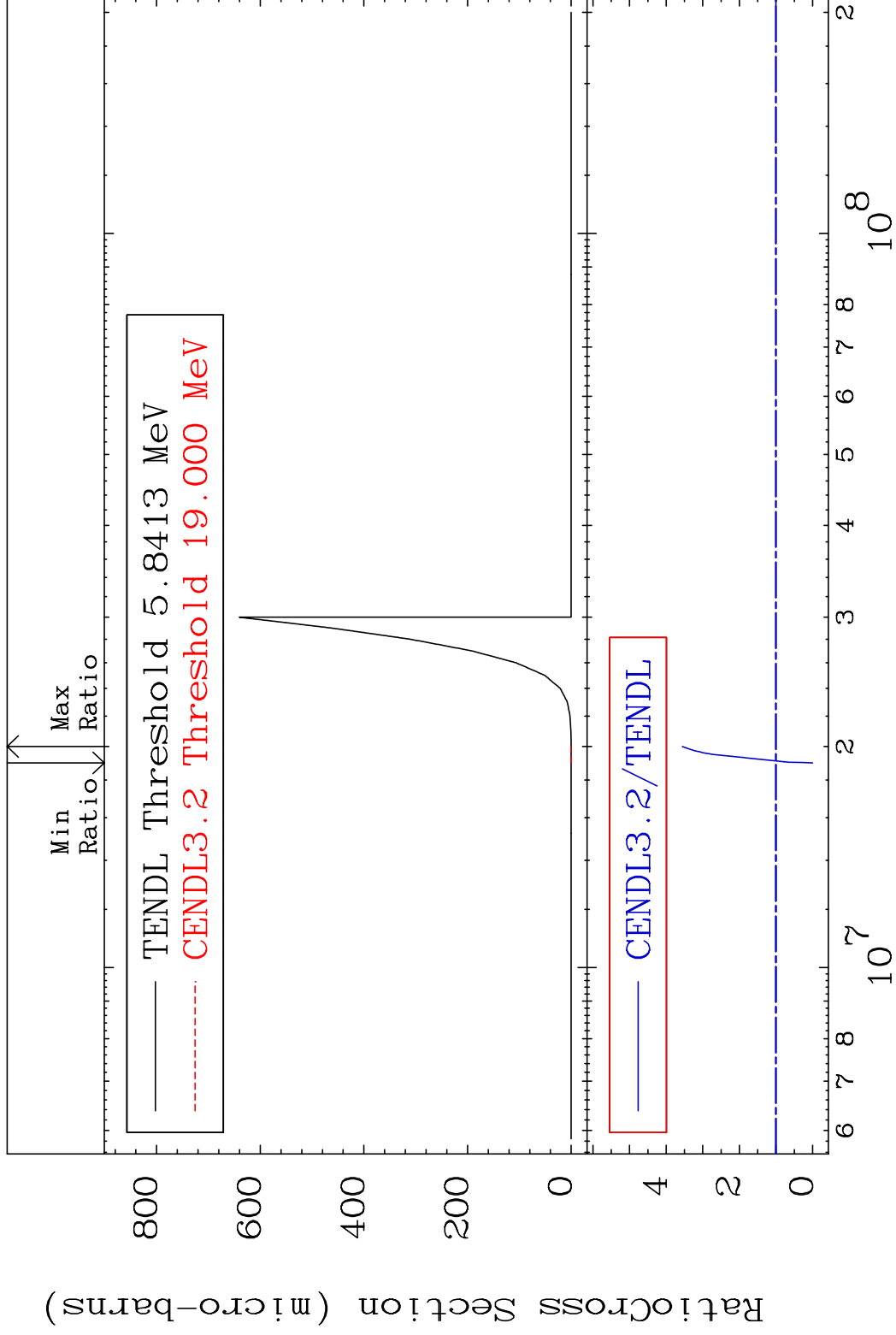
64-Gd-154

MAT 6431

(n, He-3)

64-Gd-154

Cross Section -100.0 To 255.7 %



21

Incident Energy (eV)

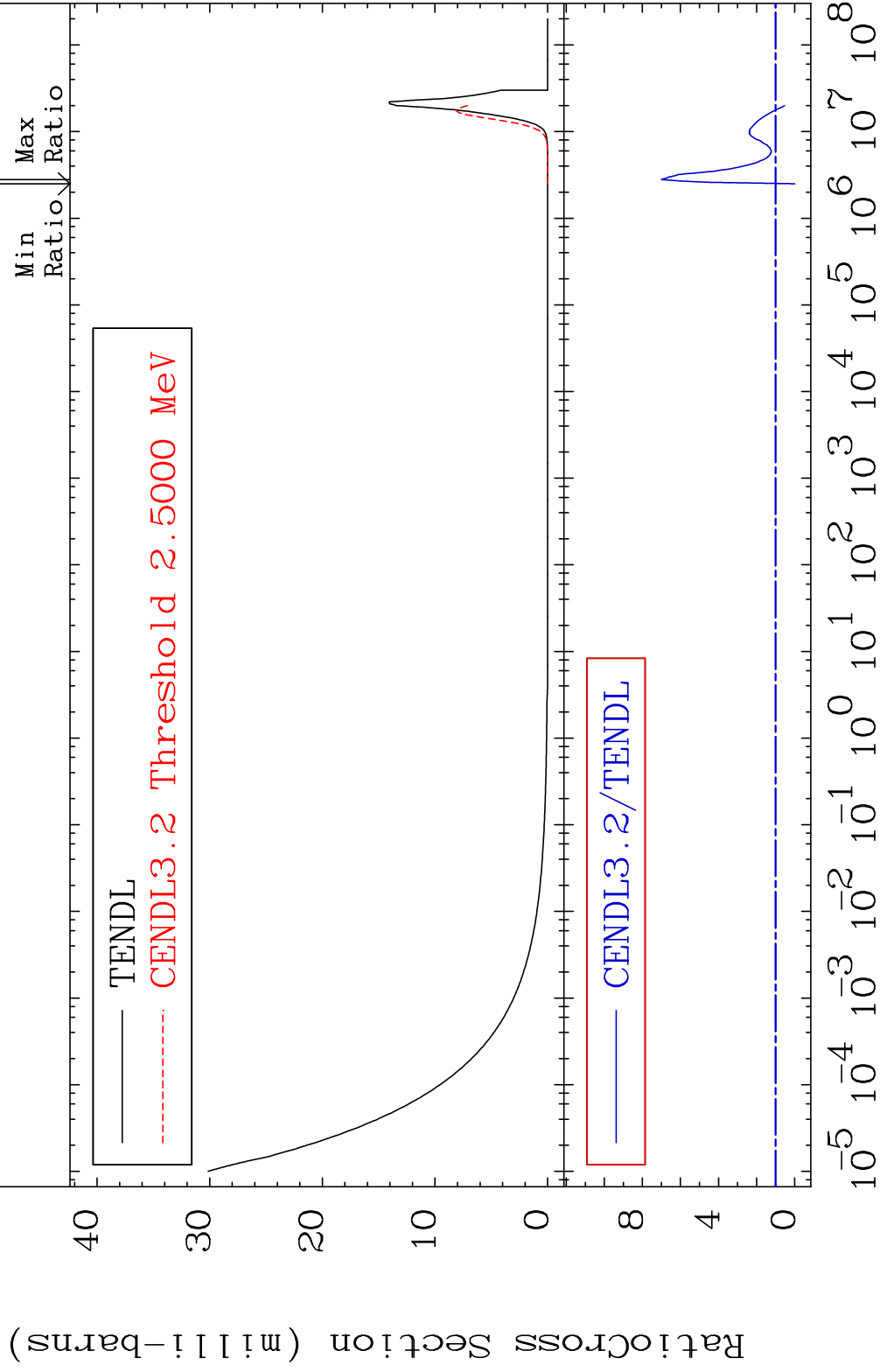
64-Gd-154

MAT 6431

(n, α)

64-Gd-154

Cross Section -100.0 To 600.1 %



22

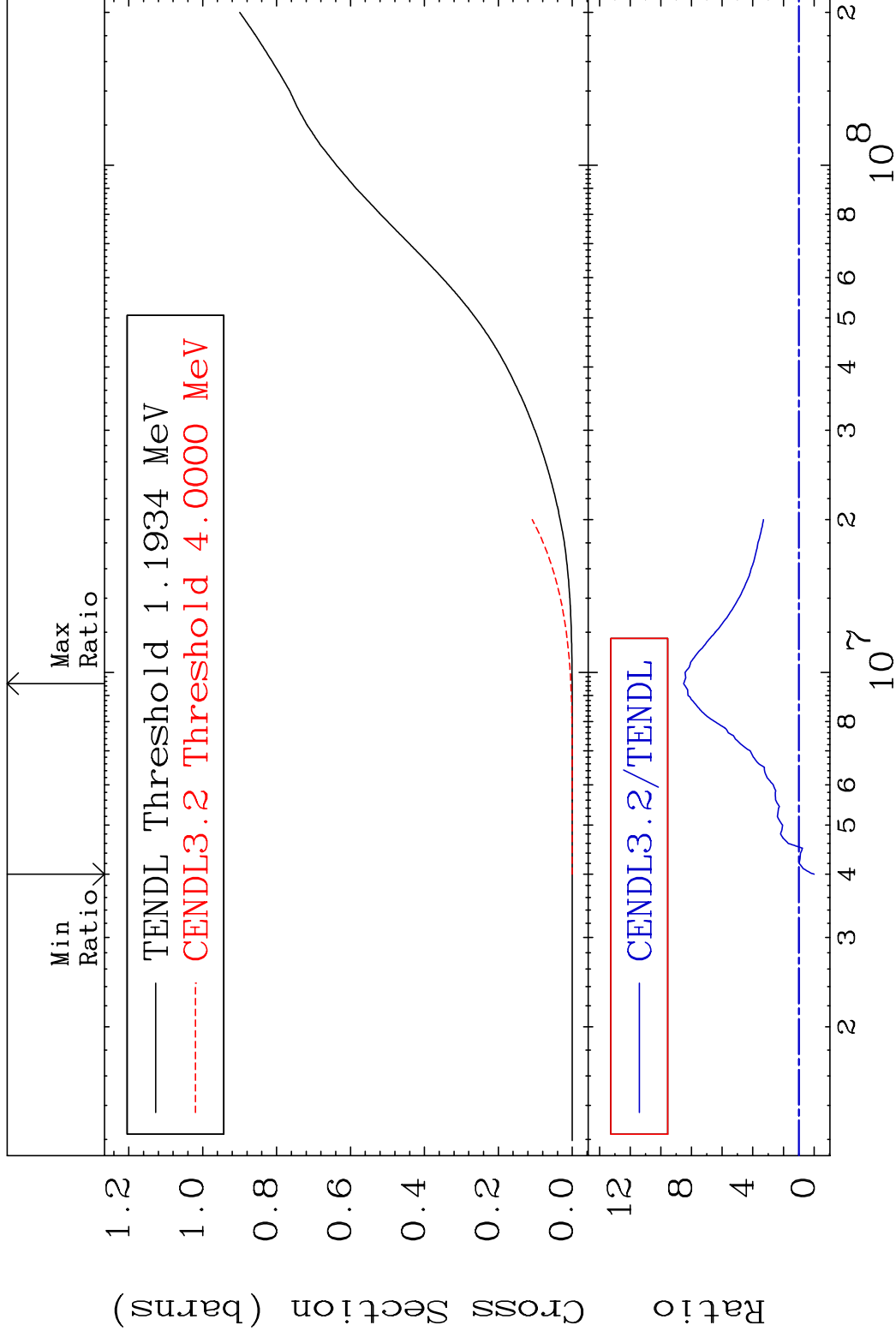
Incident Energy (eV)

64-Gd-154

MAT 6431

Hydrogen Production 64-Gd-154

Cross Section -100.0 To 751.2 %

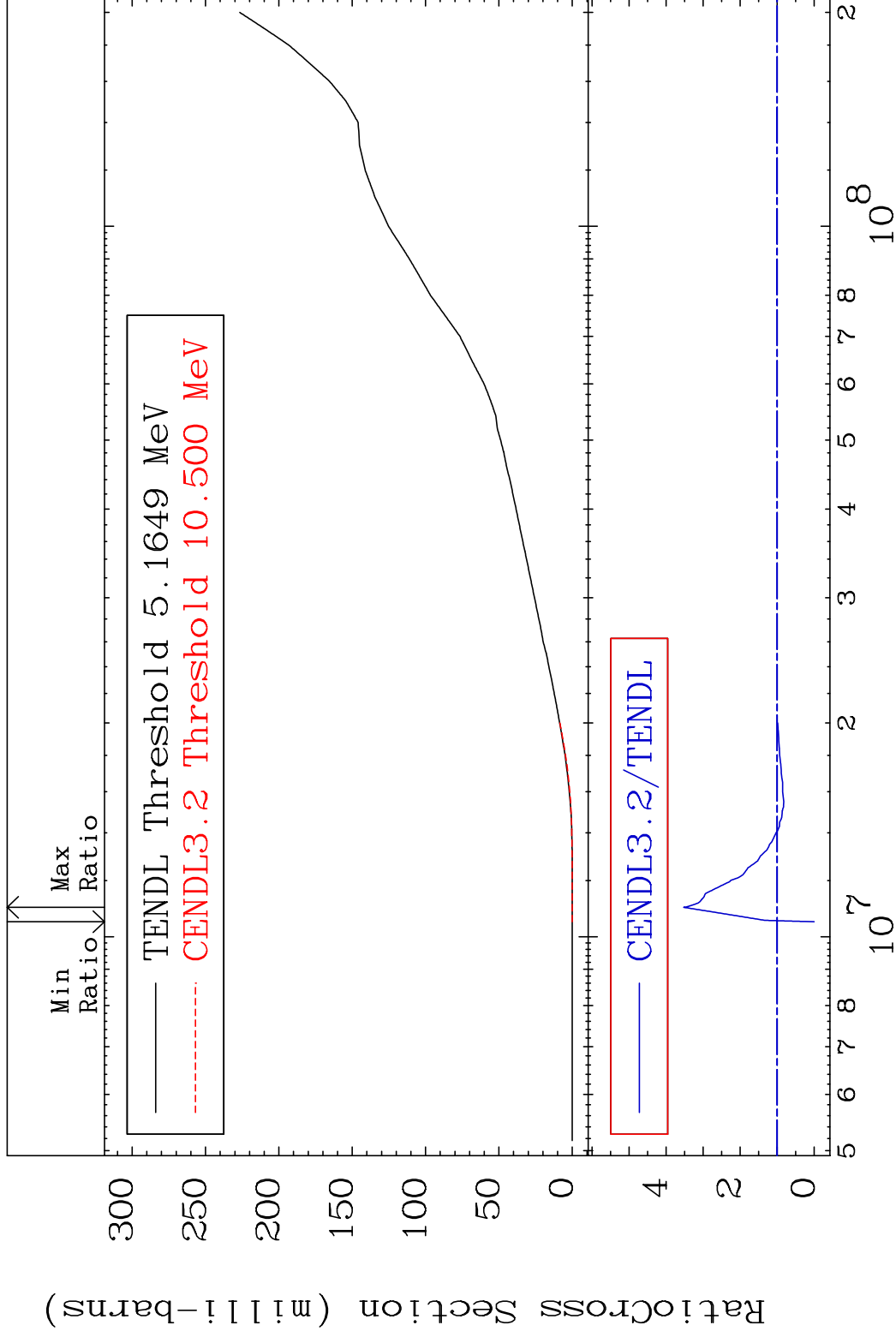


MAT 6431

Deuterium Production

64-Gd-154

Cross Section -100.0 To 252.4 %

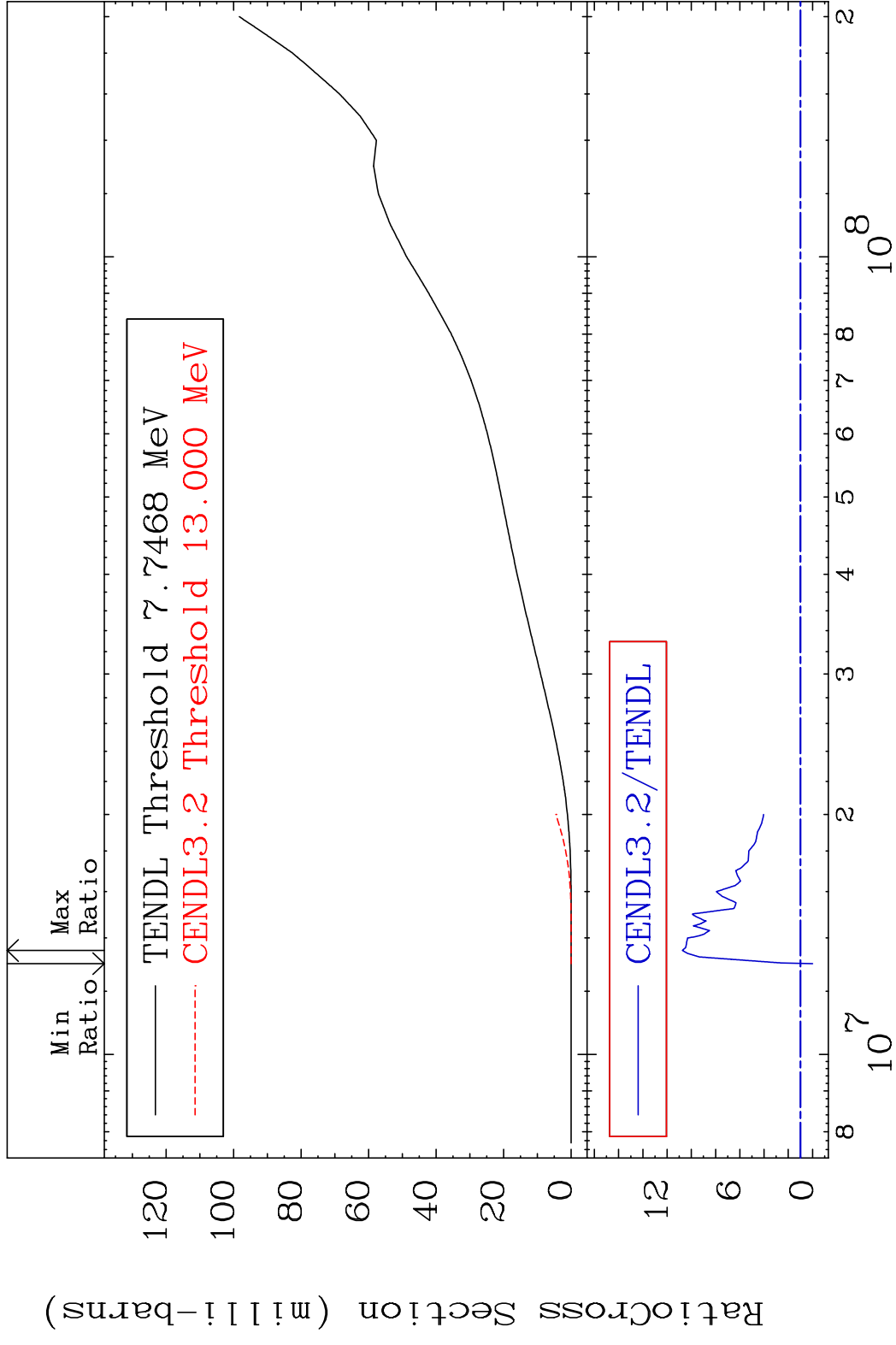


24

Incident Energy (eV)

64-Gd-154

MAT 6431 Tritium Production 64-Gd-154
 Cross Section -100.0 To 974.3 %



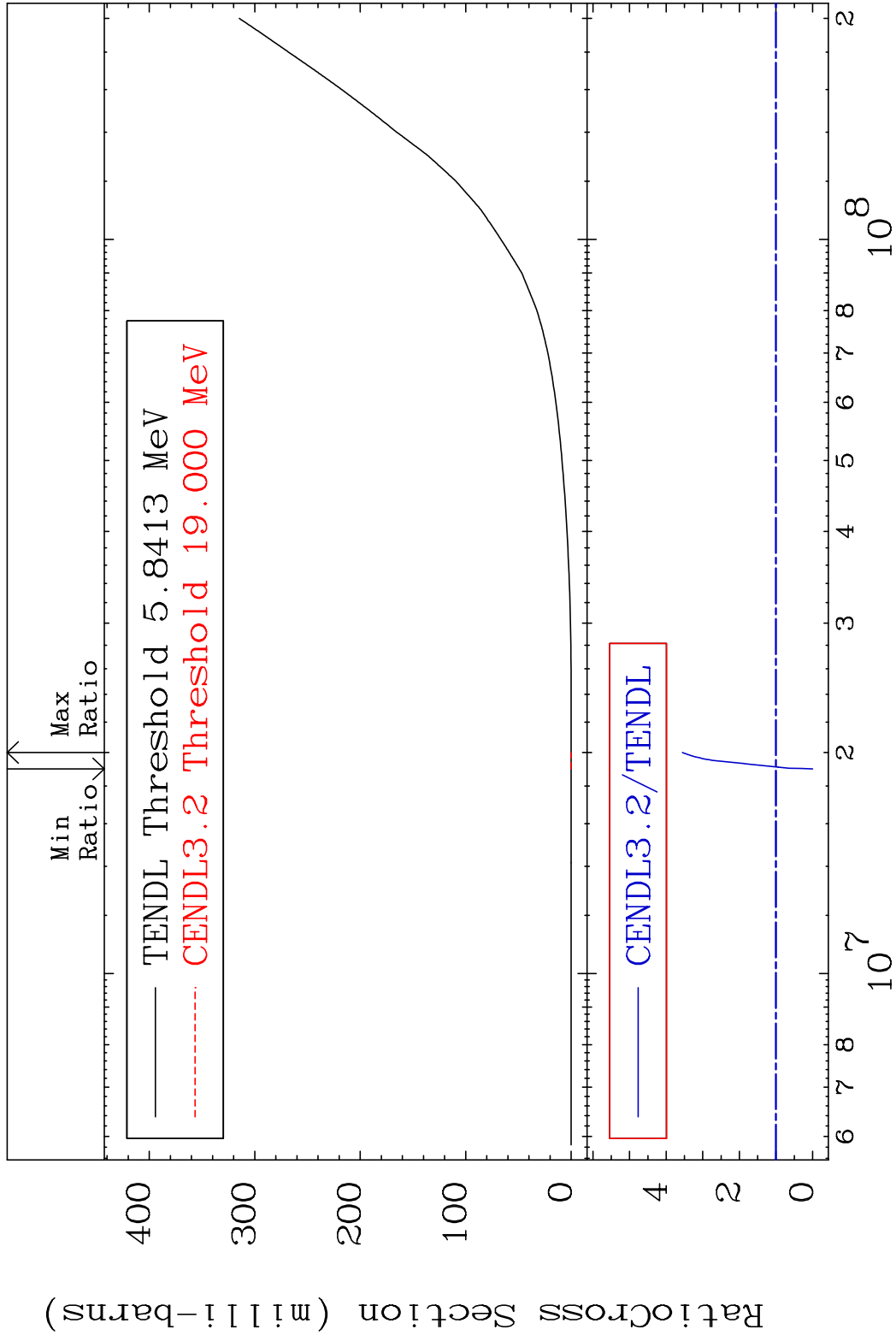
25 Incident Energy (eV) 64-Gd-154

MAT 6431

He-3 Production

64-Gd-154

Cross Section -100.0 To 255.7 %



26

Incident Energy (eV)

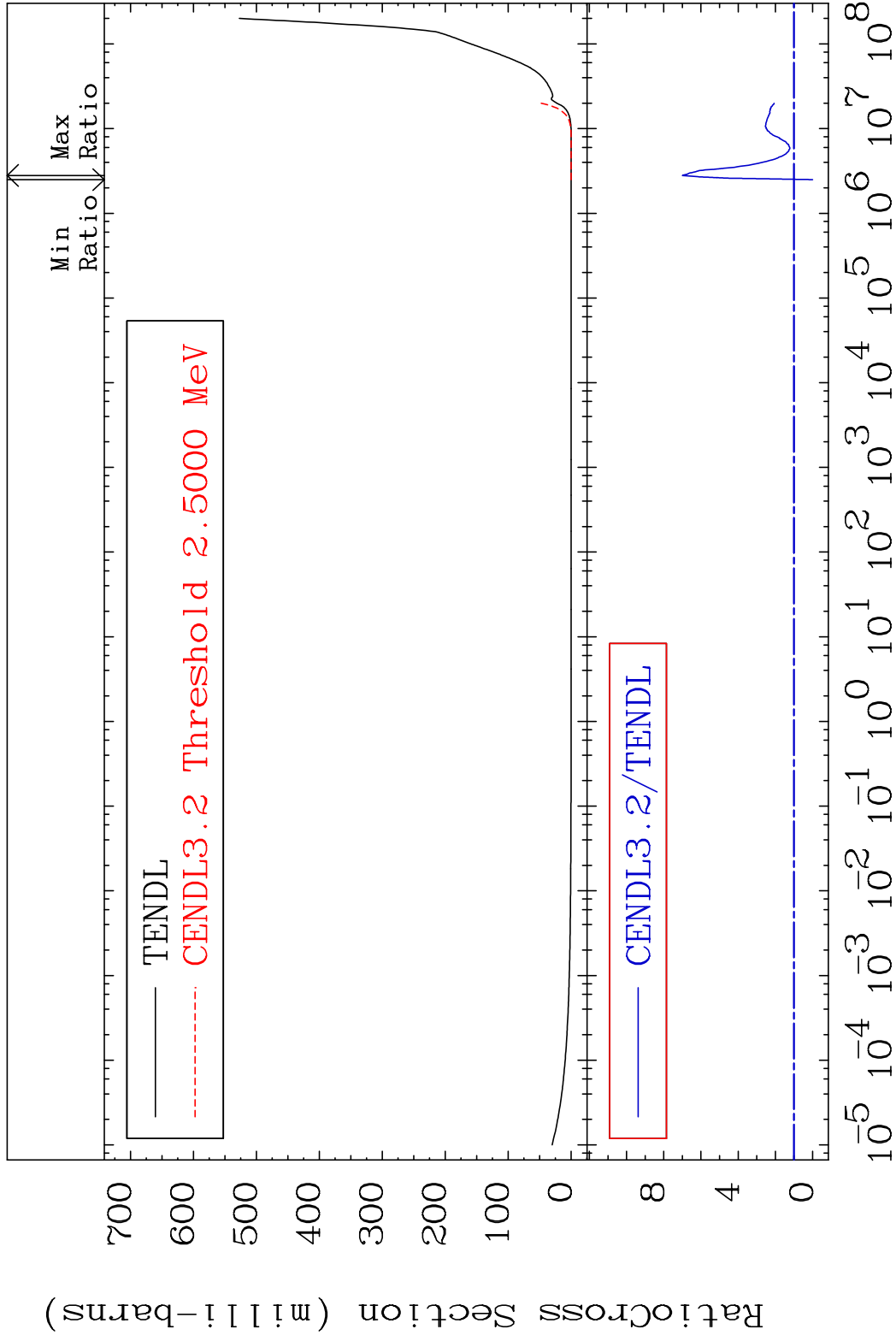
64-Gd-154

MAT 6431

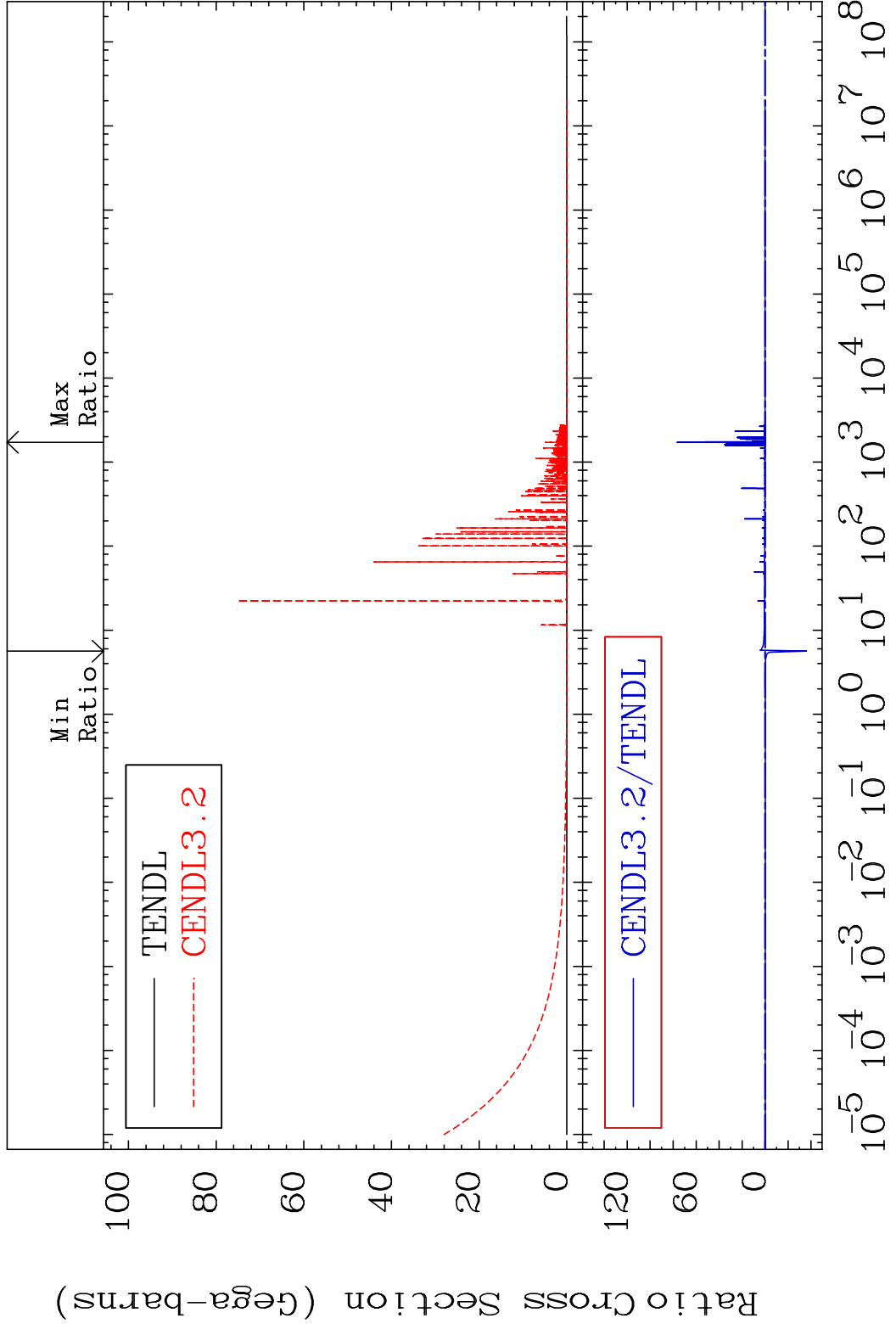
He-4 Production

64-Gd-154

Cross Section -100.0 To 600.1 %



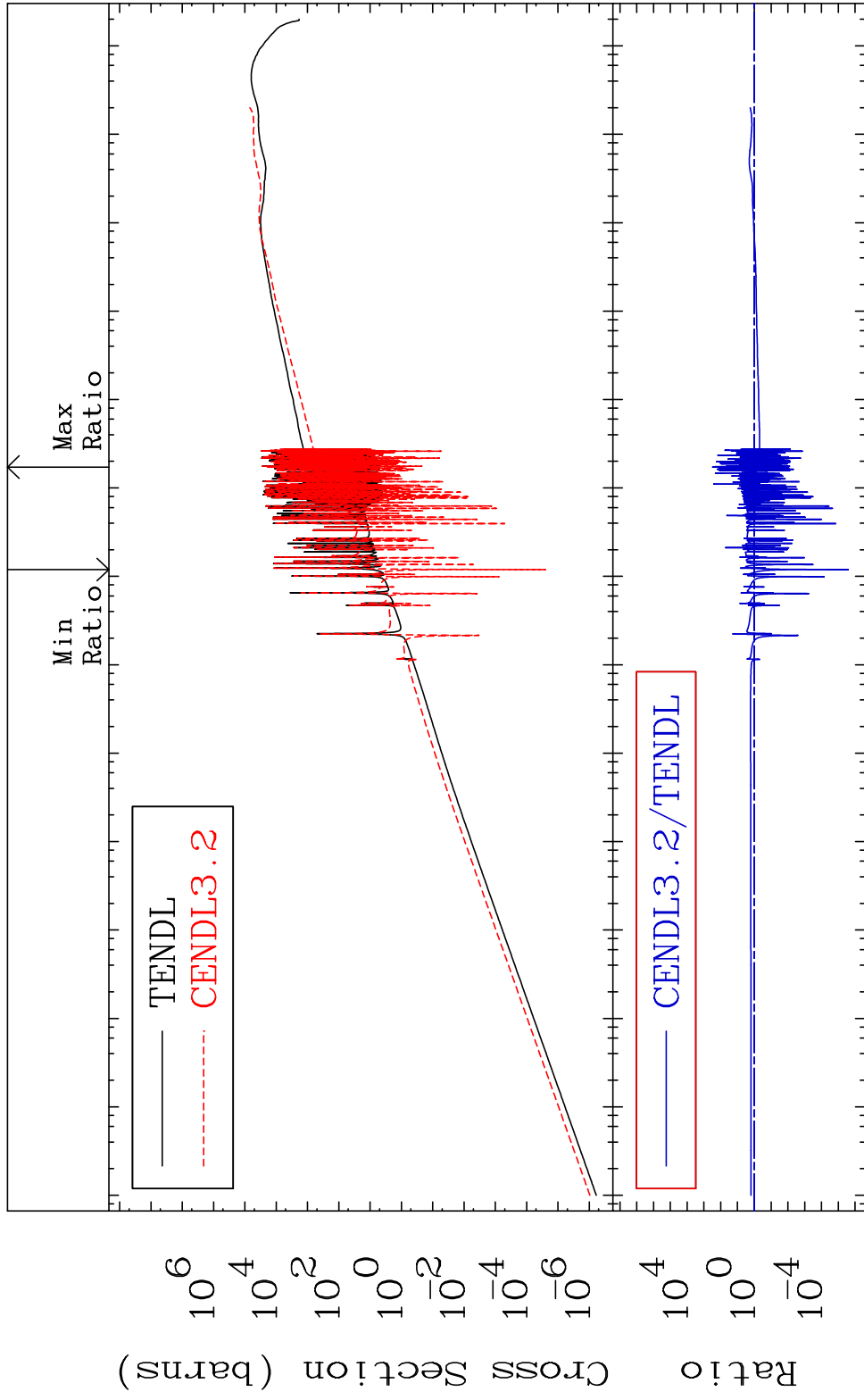
MAT 6431 Kerma total (eV-barns) 64-Gd-154
 Cross Section -9999. To 9999. %



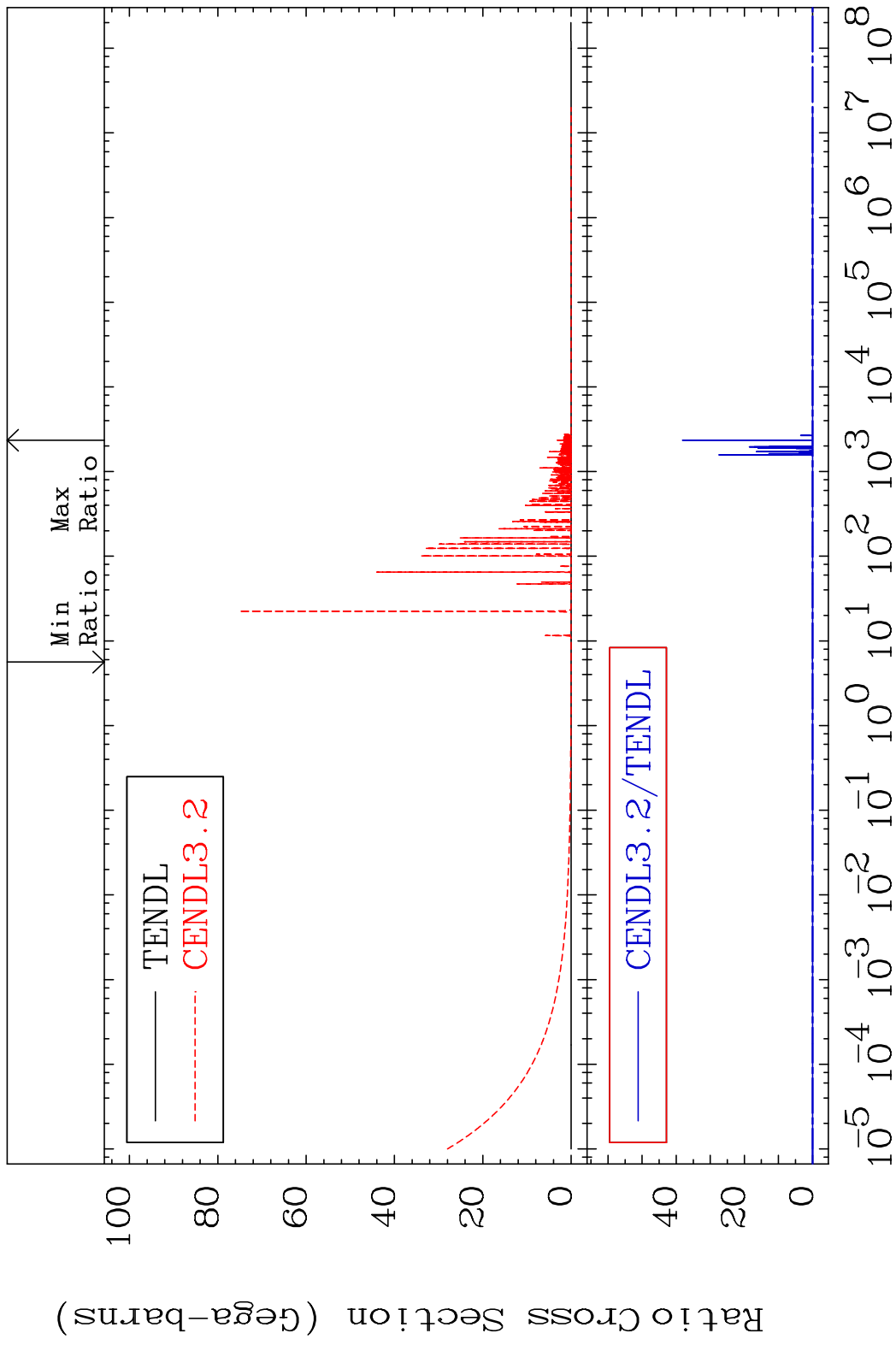
MAT 6431

Kerma elastic
Cross Section -100.0 To 9999. %

64-Gd-154

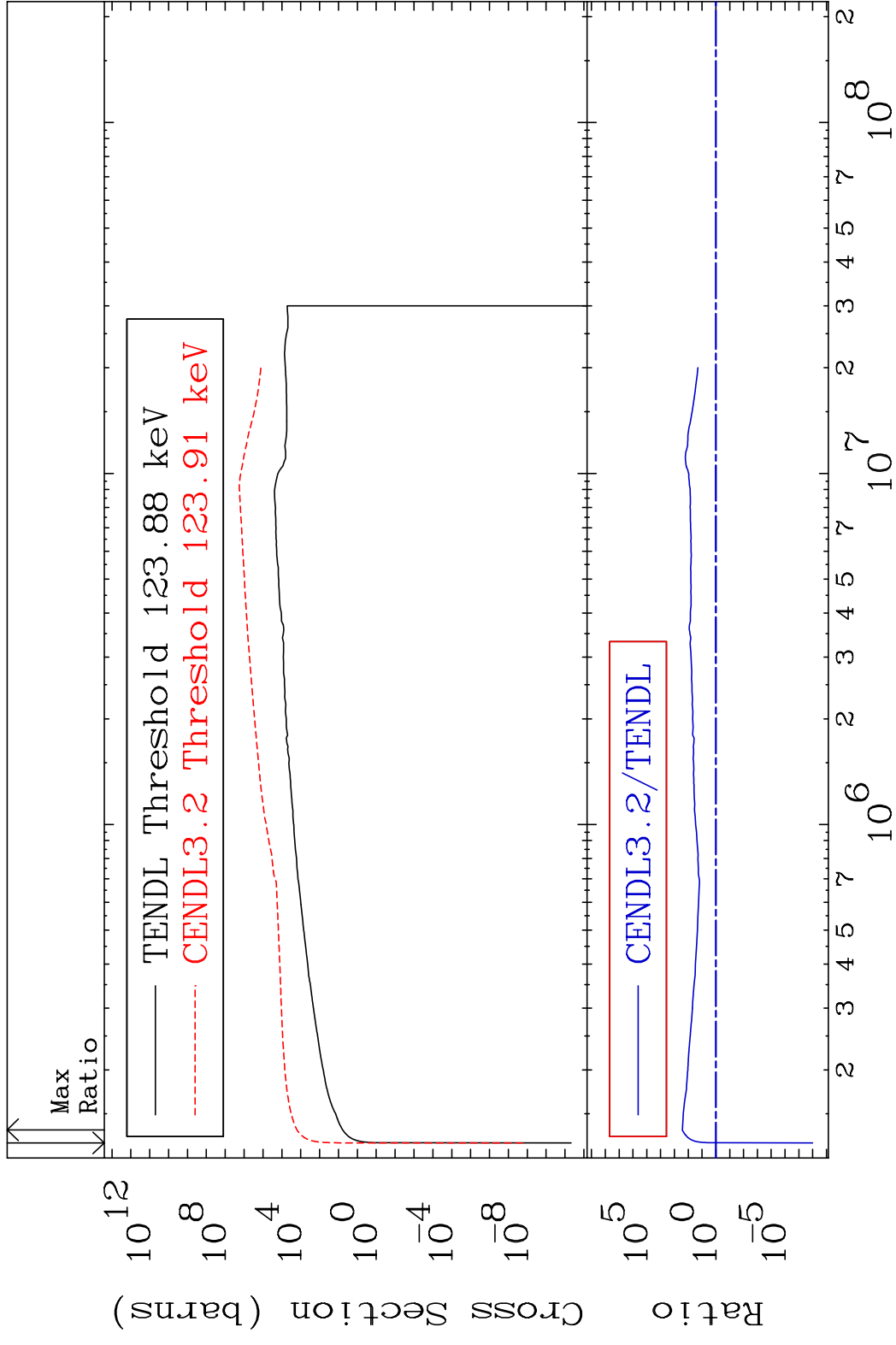


MAT 6431 Kerma non-elastic (all but mt2) 64-Gd-154
 Cross Section -9999. To 9999. %

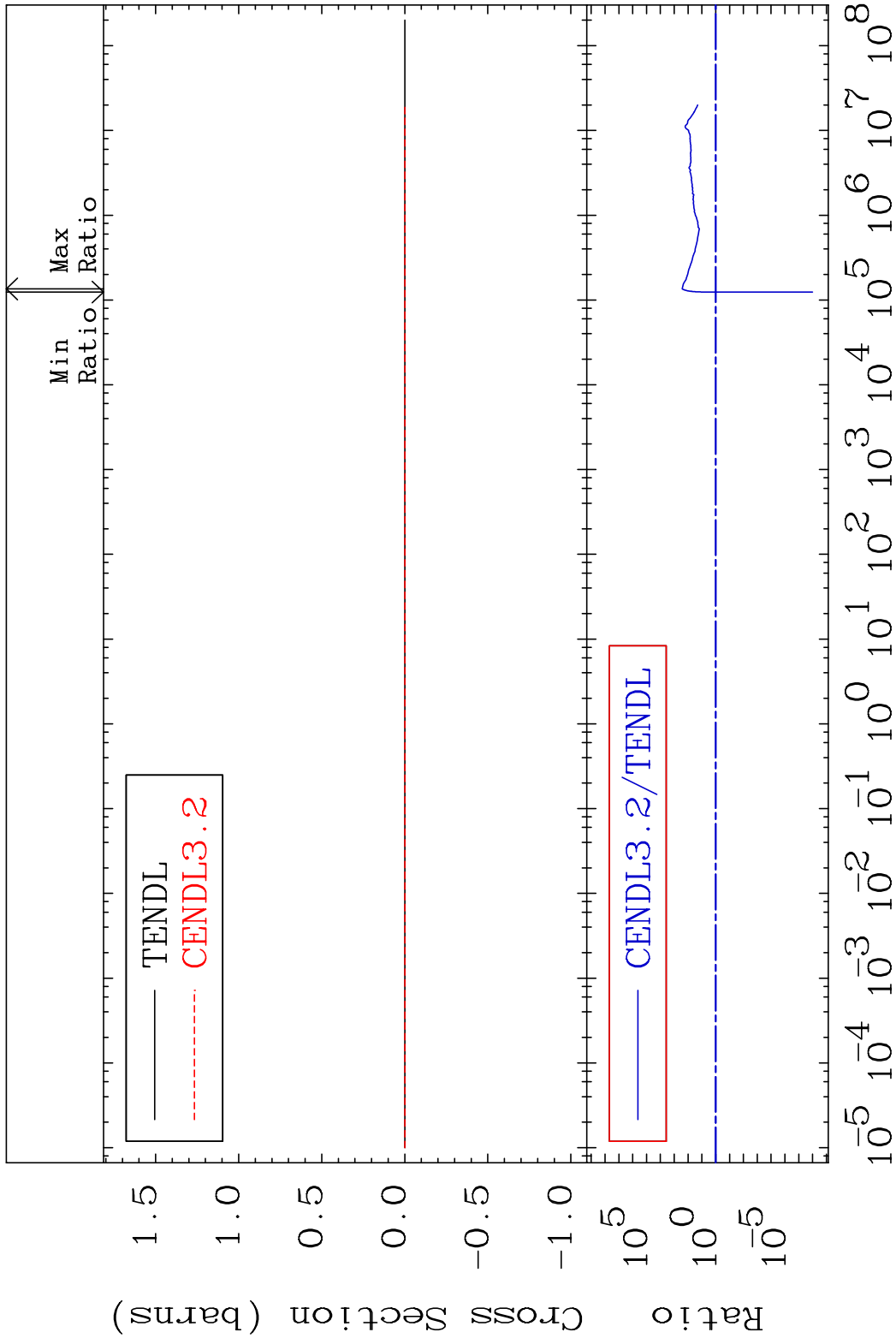


30 Incident Energy (eV) 64-Gd-154

MAT 6431 Kerma inelastic (mt51-91) 64-Gd-154
 Cross Section -100.0 To 9999. %



MAT 6431 Kerma fission (mt18 or mt19-20-21-38) 64-Gd-154
 Cross Section -100.0 To 9999. %

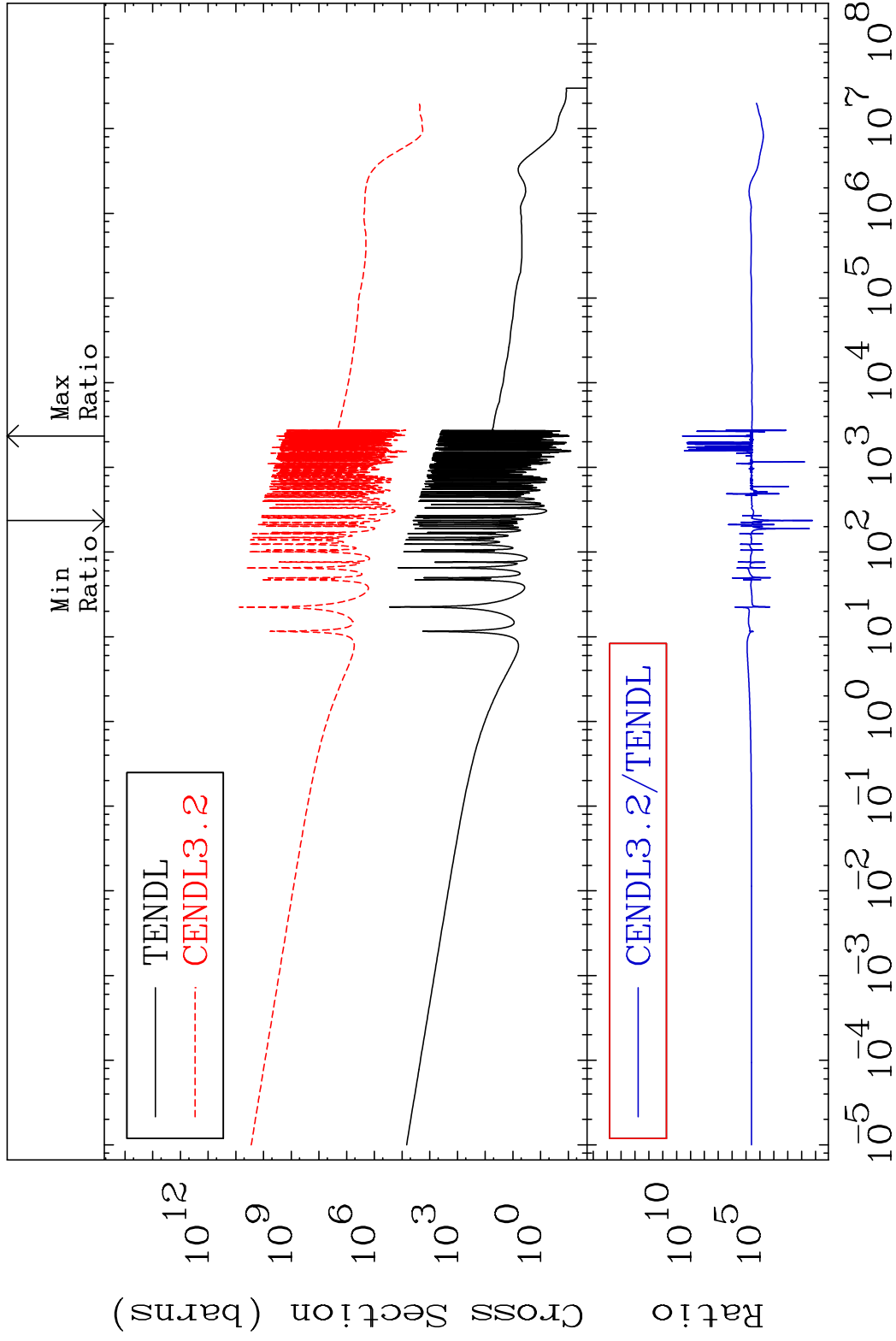


MAT 6431

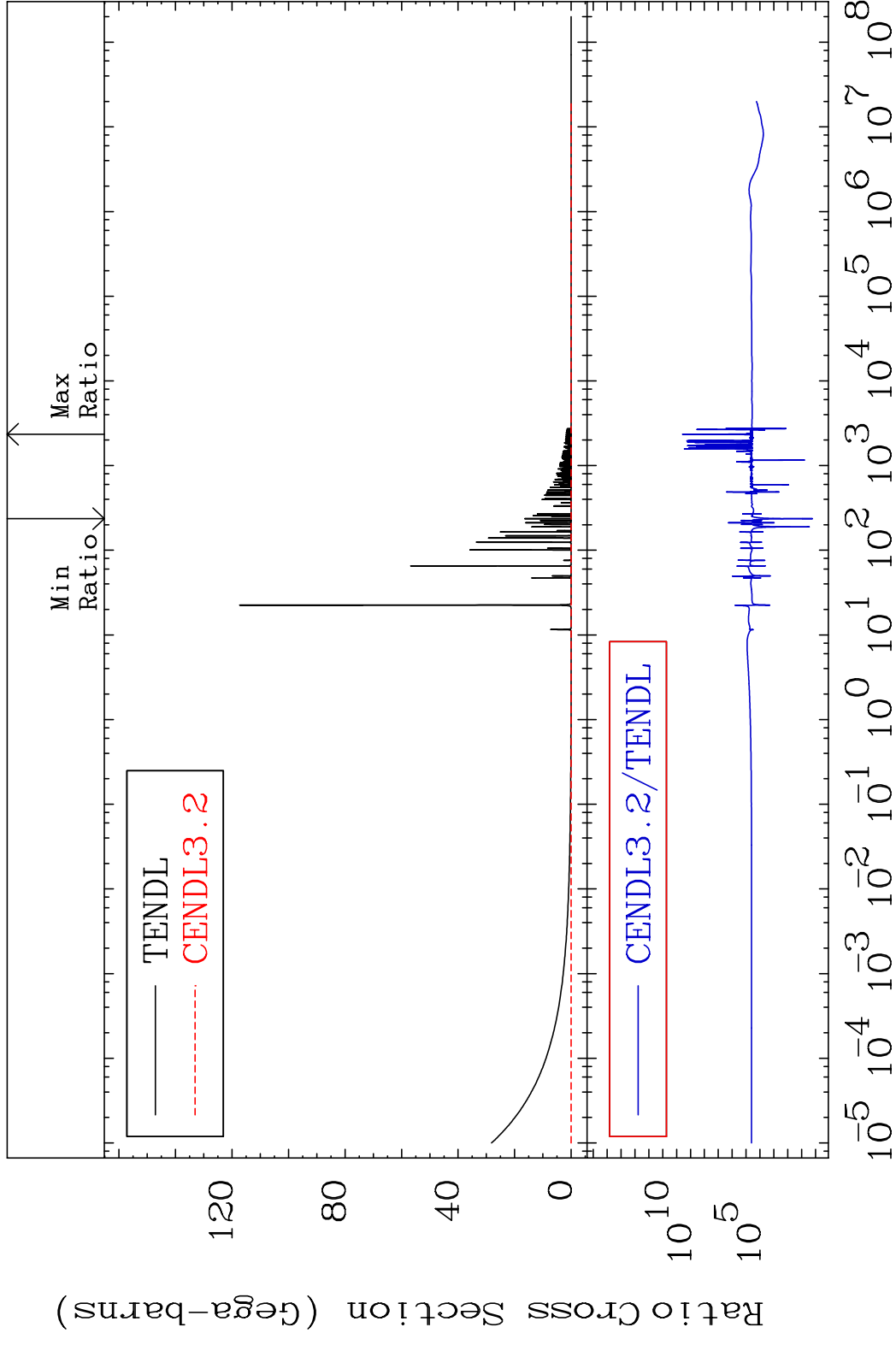
Kerma capture (mt102)

64-Gd-154

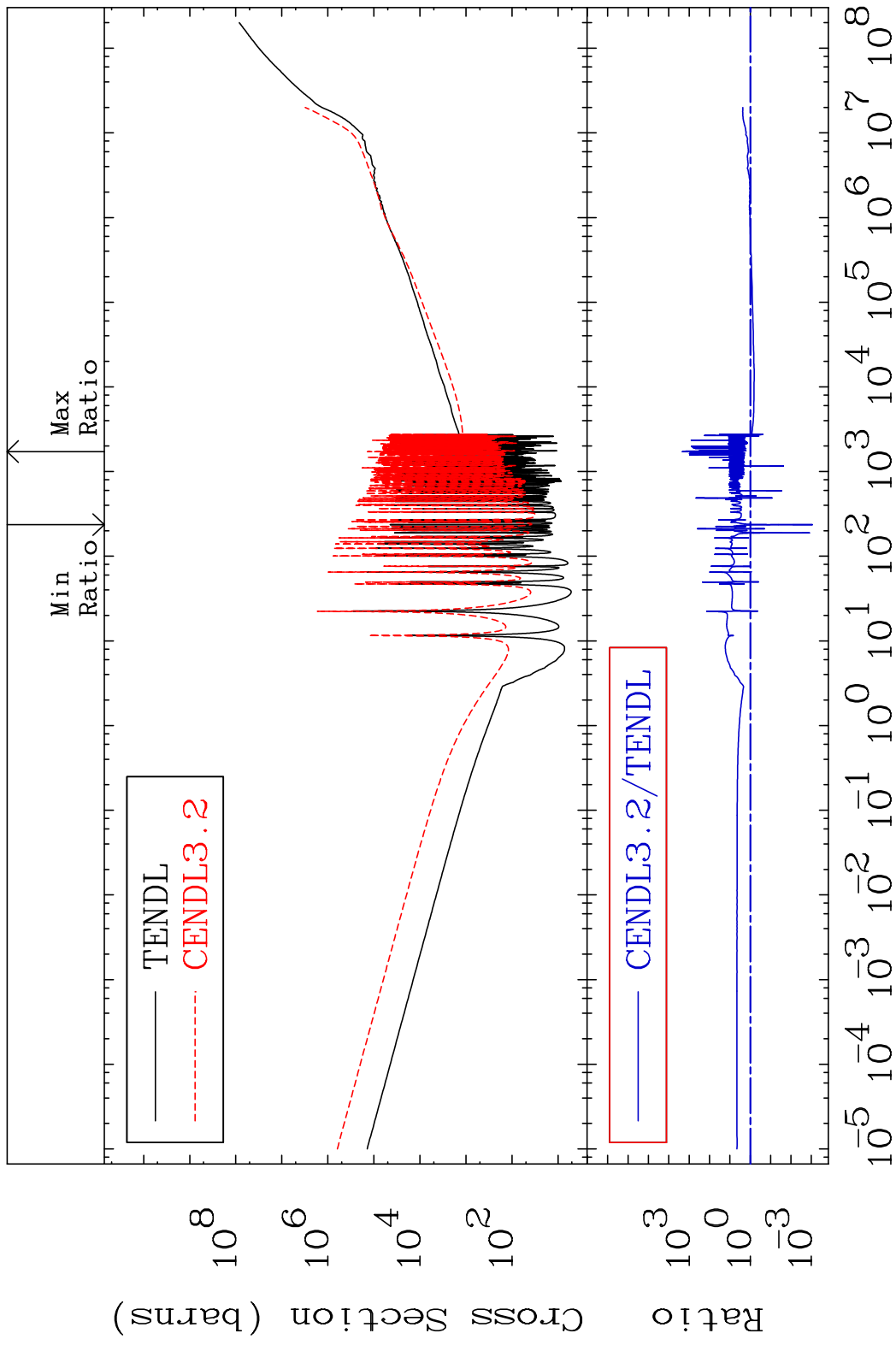
Cross Section 1550. To 9999. %



MAT 6431 Total photon (eV-barns) 64-Gd-154
 Cross Section 1550. To 9999. %



MAT 6431 Total kinematic kerma (high limit) 64-Gd-154
 Cross Section -99.91 To 9999. %

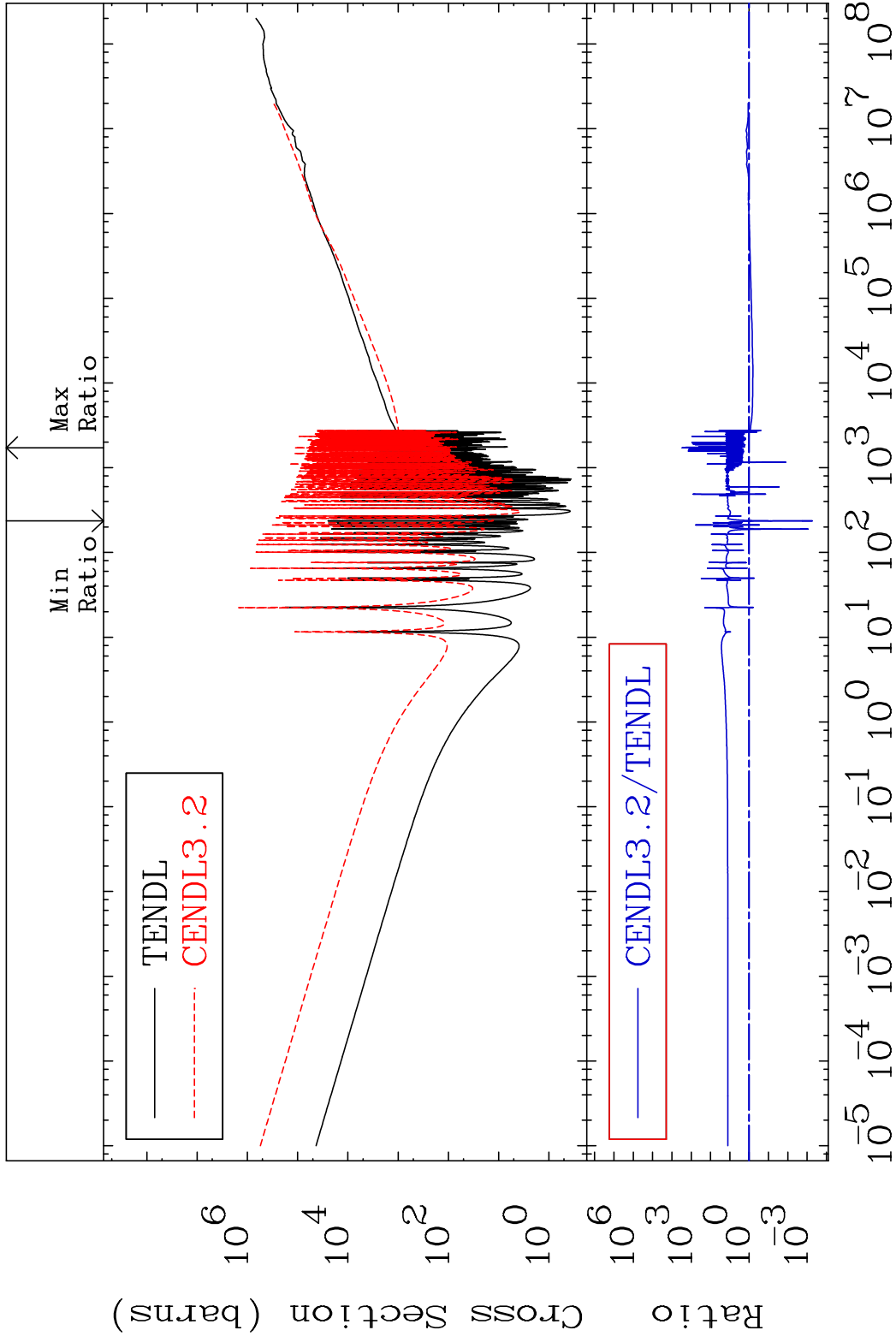


MAT 6431

Dpa total (eV-barns)

64-Gd-154

Cross Section -99.95 To 9999. %



36

Incident Energy (eV)

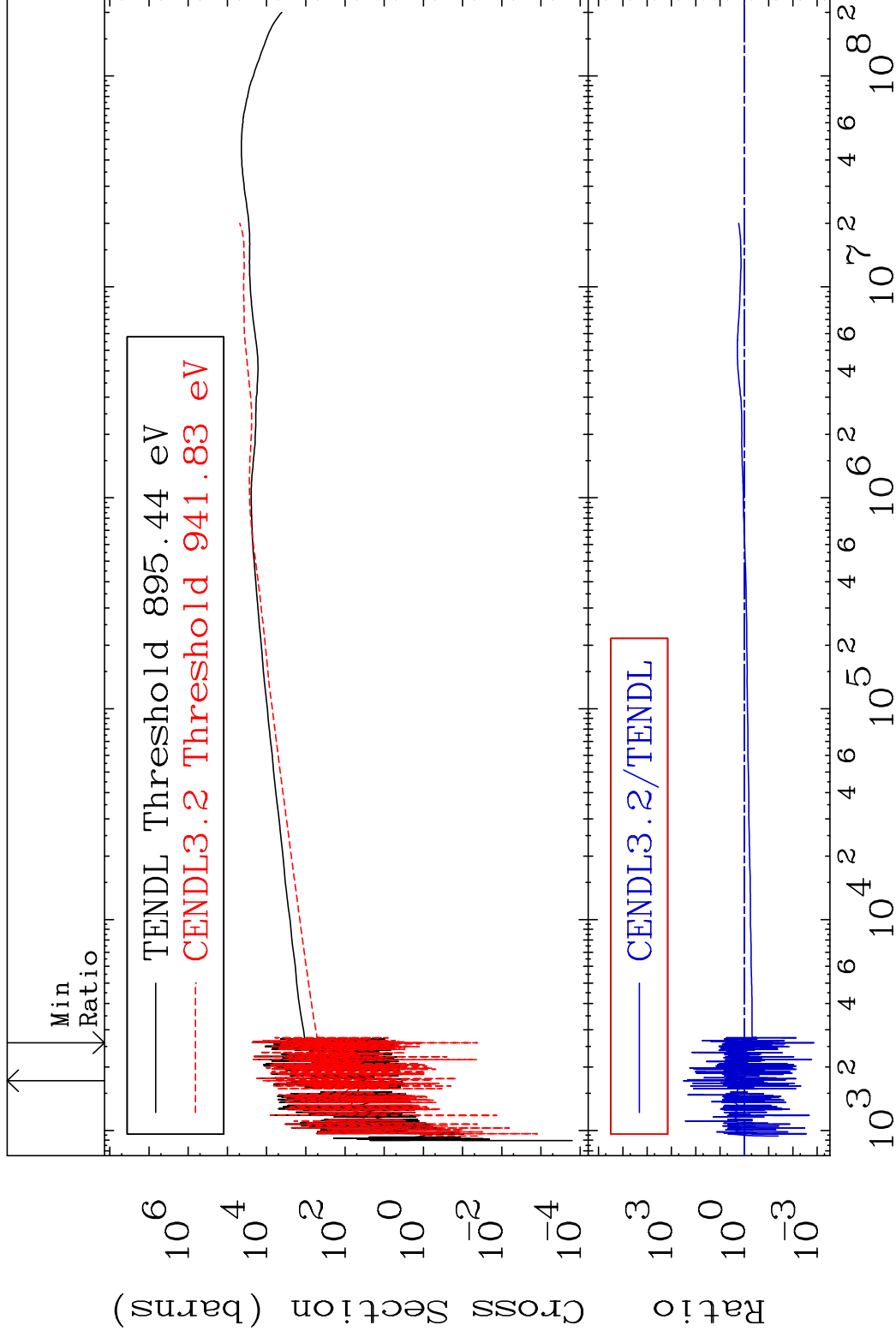
64-Gd-154

MAT 6431

Dpa elastic (mt2)

64-Gd-154

Cross Section -99.87 To 9999. %



37

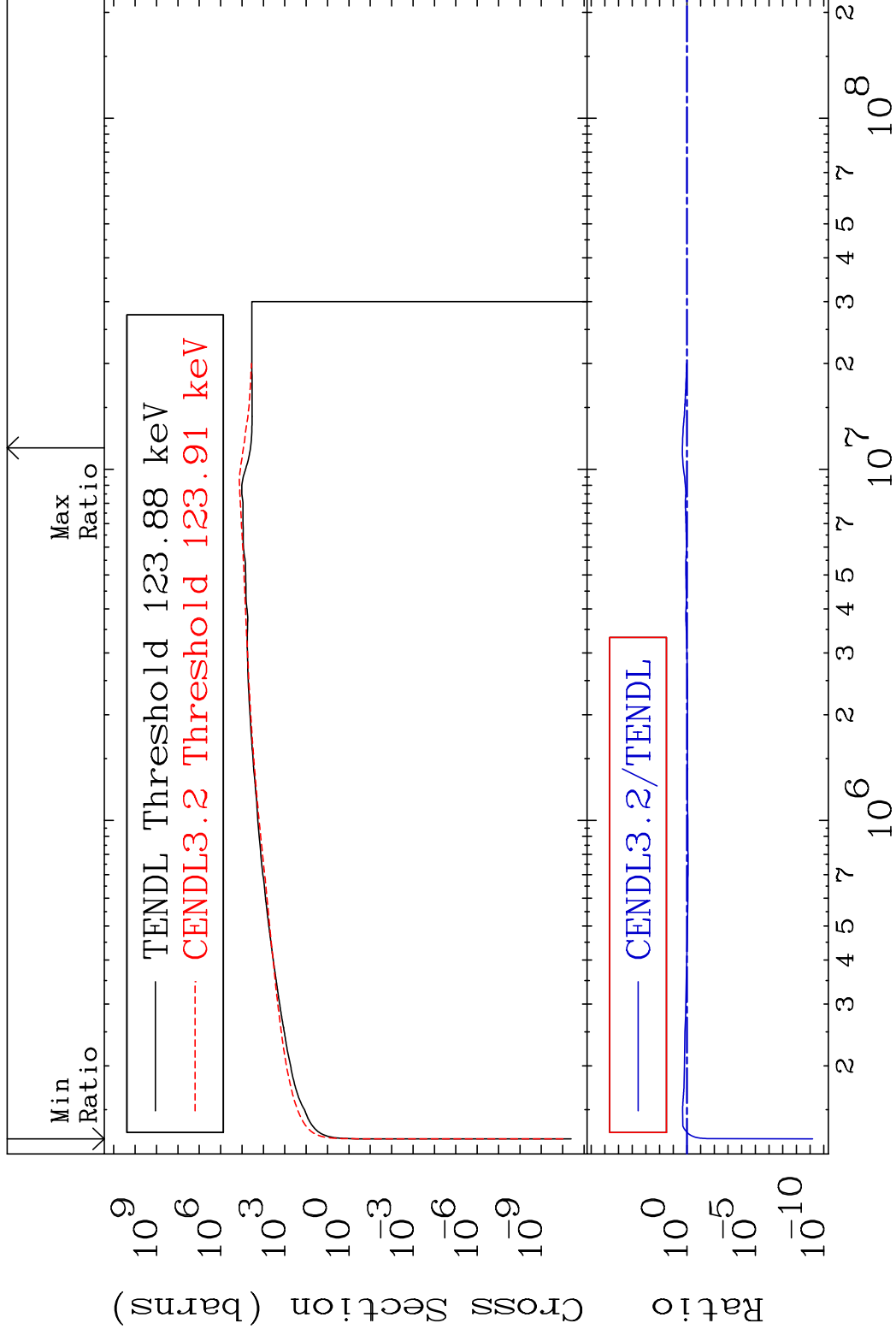
Incident Energy (eV)

64-Gd-154

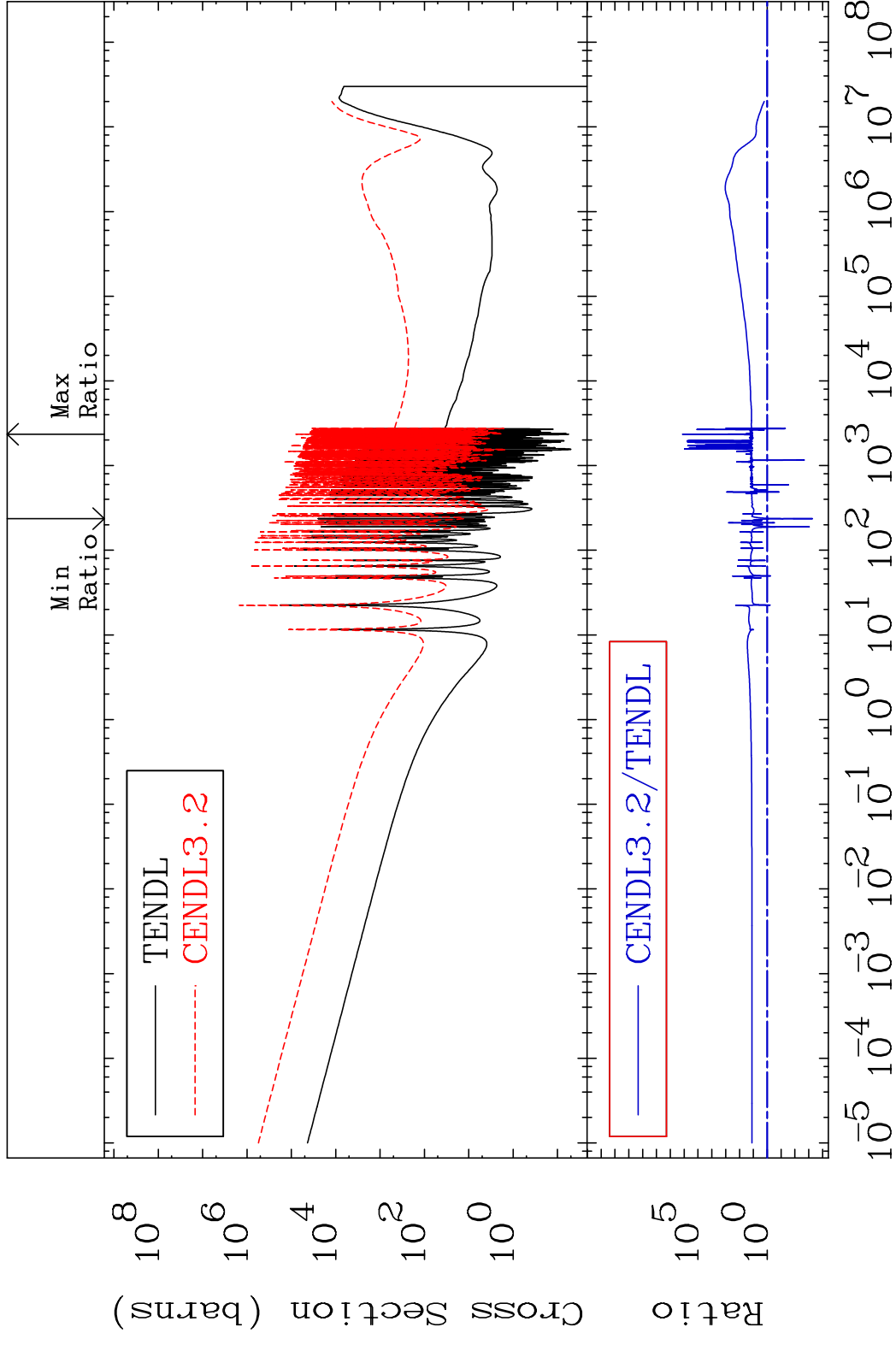
MAT 6431

Dpa inelastic (mt51-91) 64-Gd-154

Cross Section -100.0 To 116.1 %



MAT 6431 Dpa disappearance (mt102 -120) 64-Gd-154
 Cross Section -99.95 To 9999. %

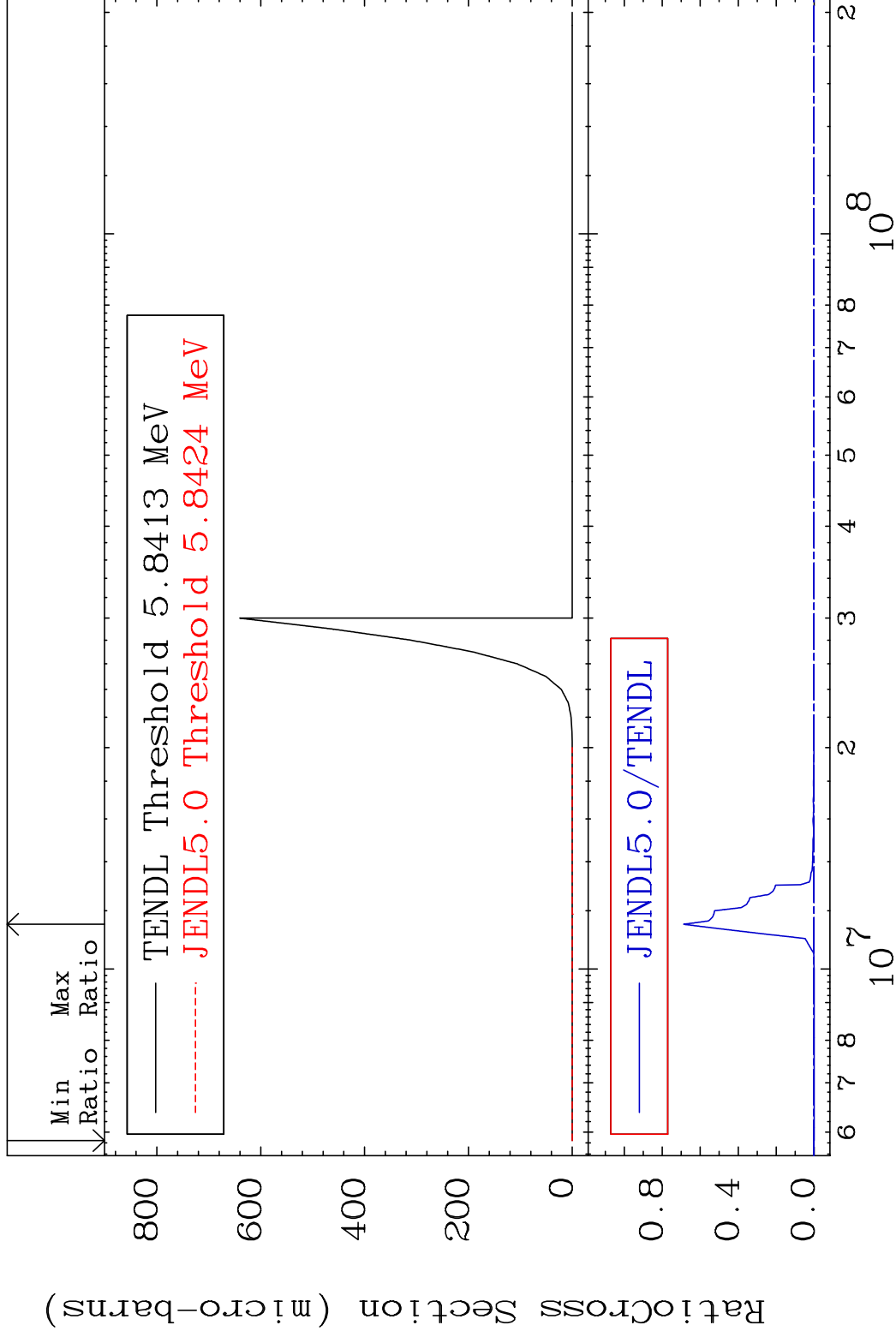


MAT 6431

(n, He-3)

64-Gd-154

Cross Section -100.0 To 9999. %



40

Incident Energy (eV)

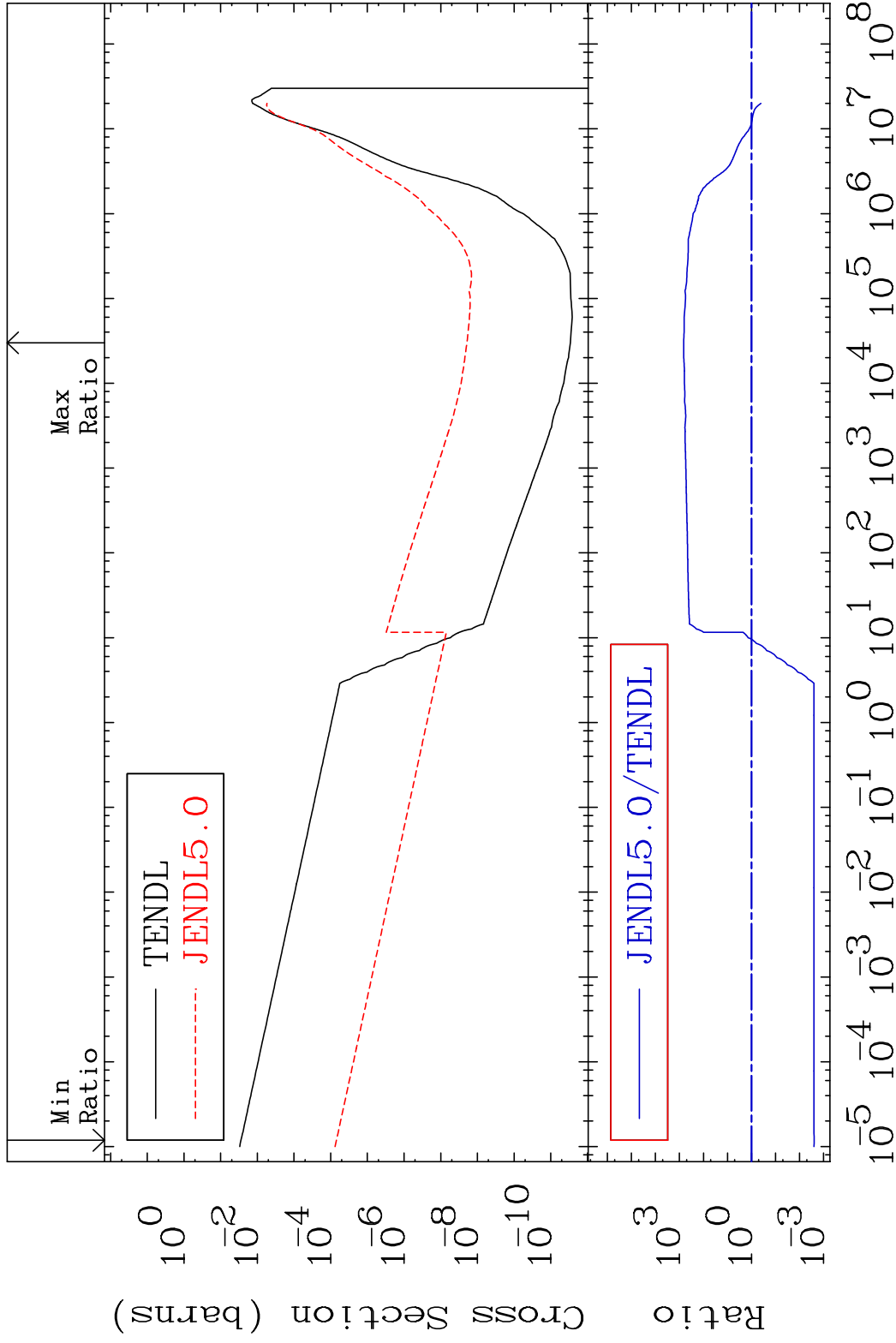
64-Gd-154

MAT 6431

(n, α)

64-Gd-154

Cross Section -99.75 To 9999. %



41

Incident Energy (eV)

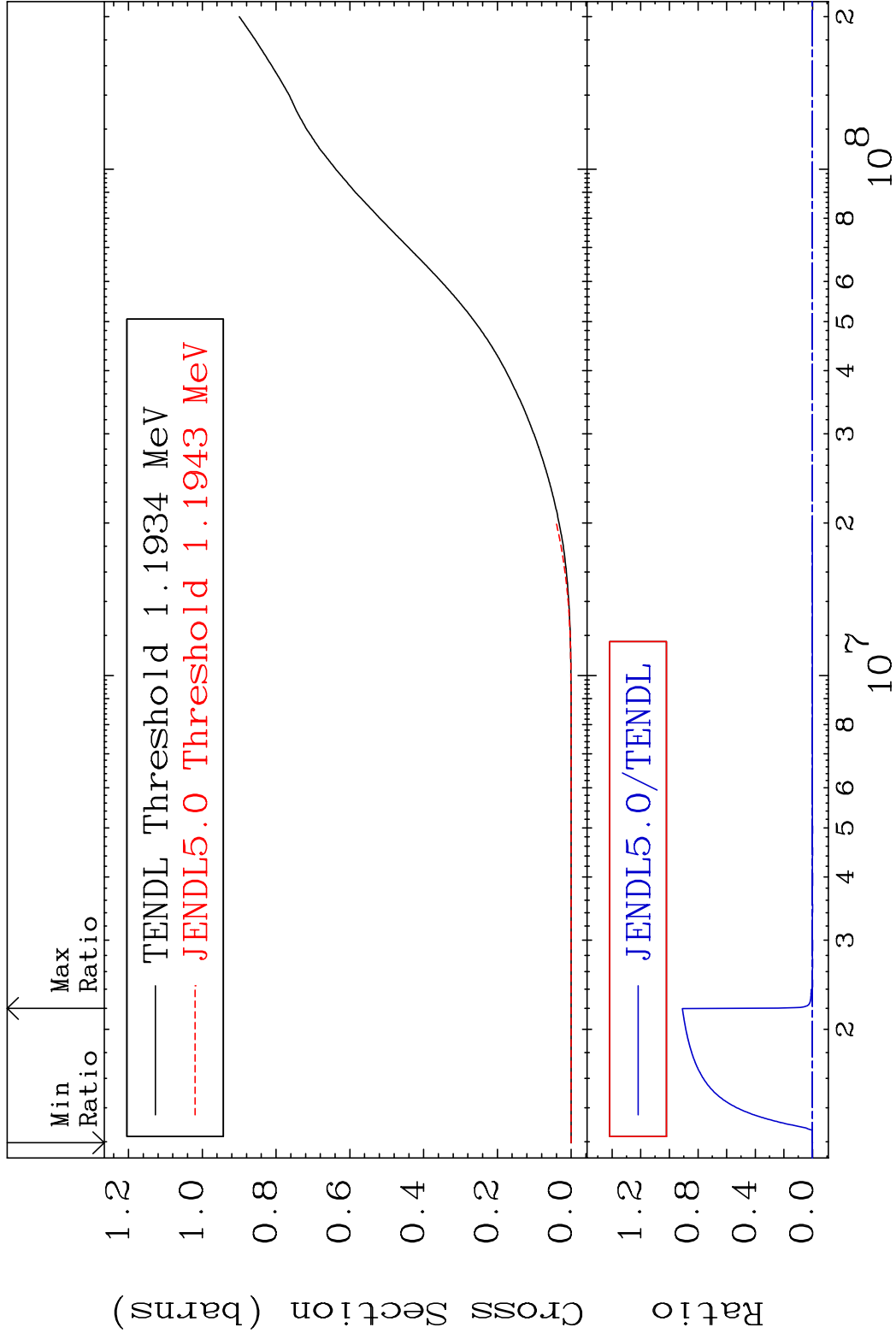
64-Gd-154

MAT 6431

Hydrogen Production

64-Gd-154

Cross Section -100.0 To 9999. %

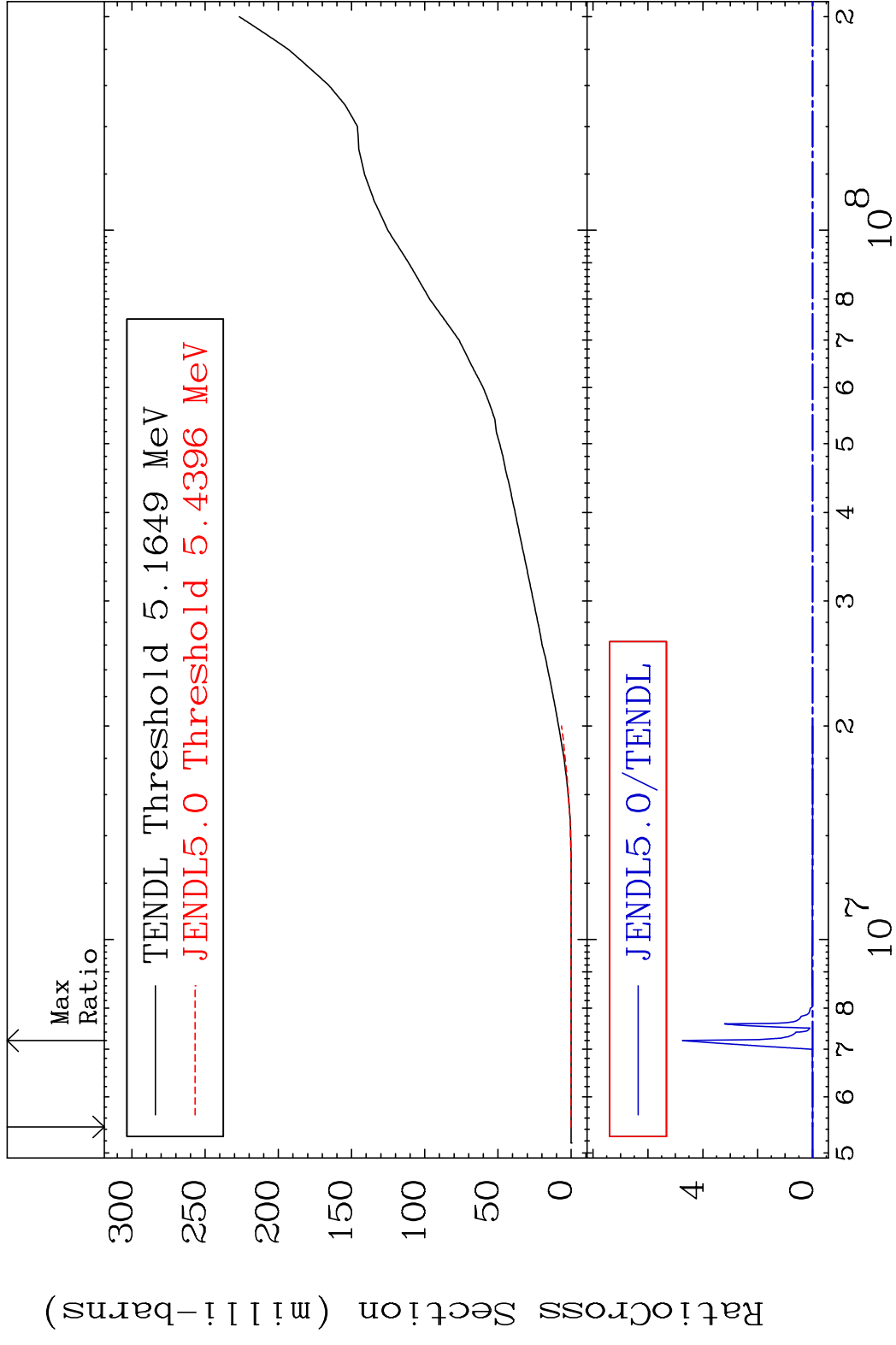


42

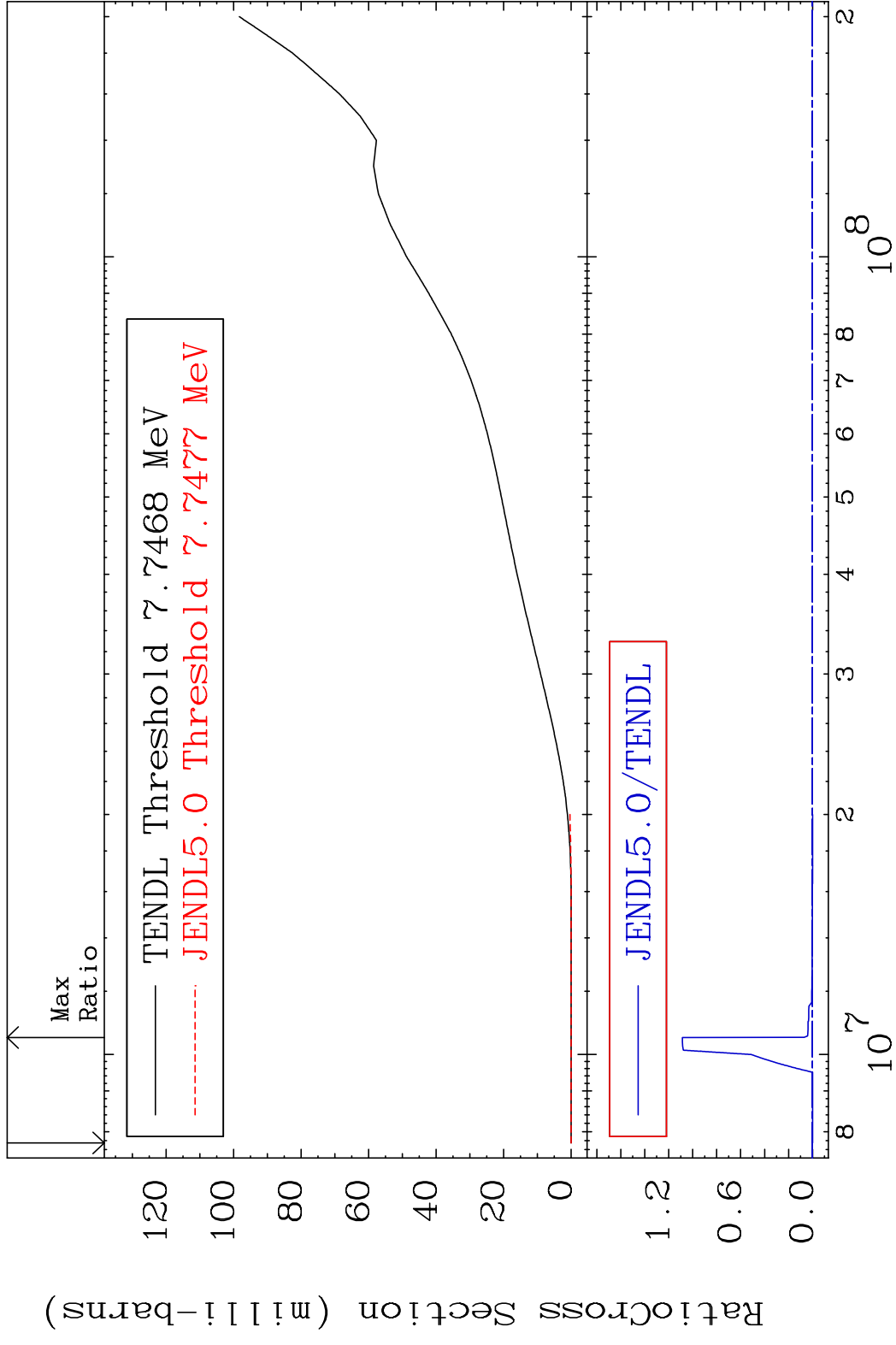
Incident Energy (eV)

64-Gd-154

MAT 6431 Deuterium Production 64-Gd-154
 Cross Section -100.0 To 9999. %



MAT 6431 Tritium Production 64-Gd-154
 Cross Section -100.0 To 9999. %

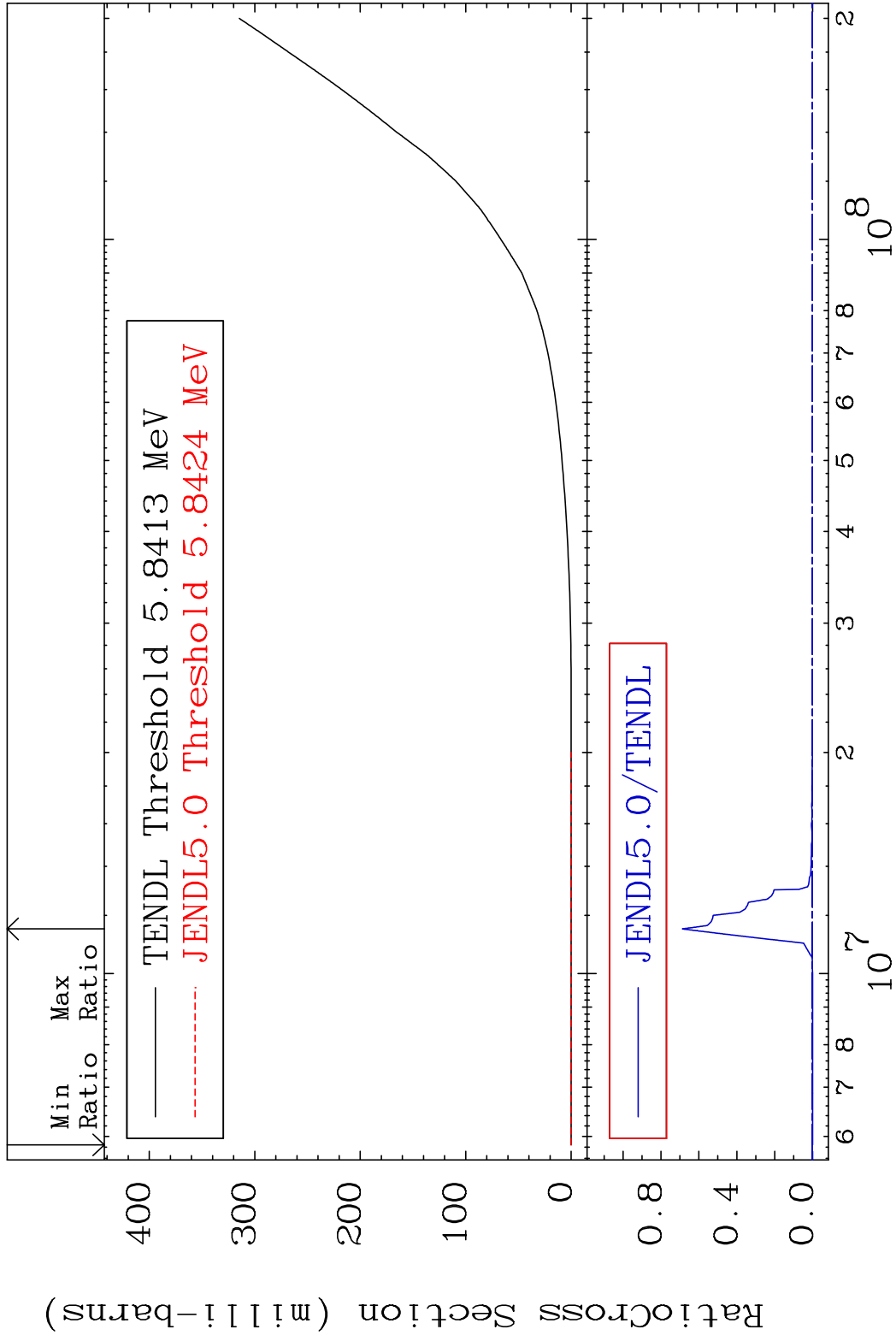


MAT 6431

He-3 Production

64-Gd-154

Cross Section -100.0 To 9999. %



45

Incident Energy (eV)

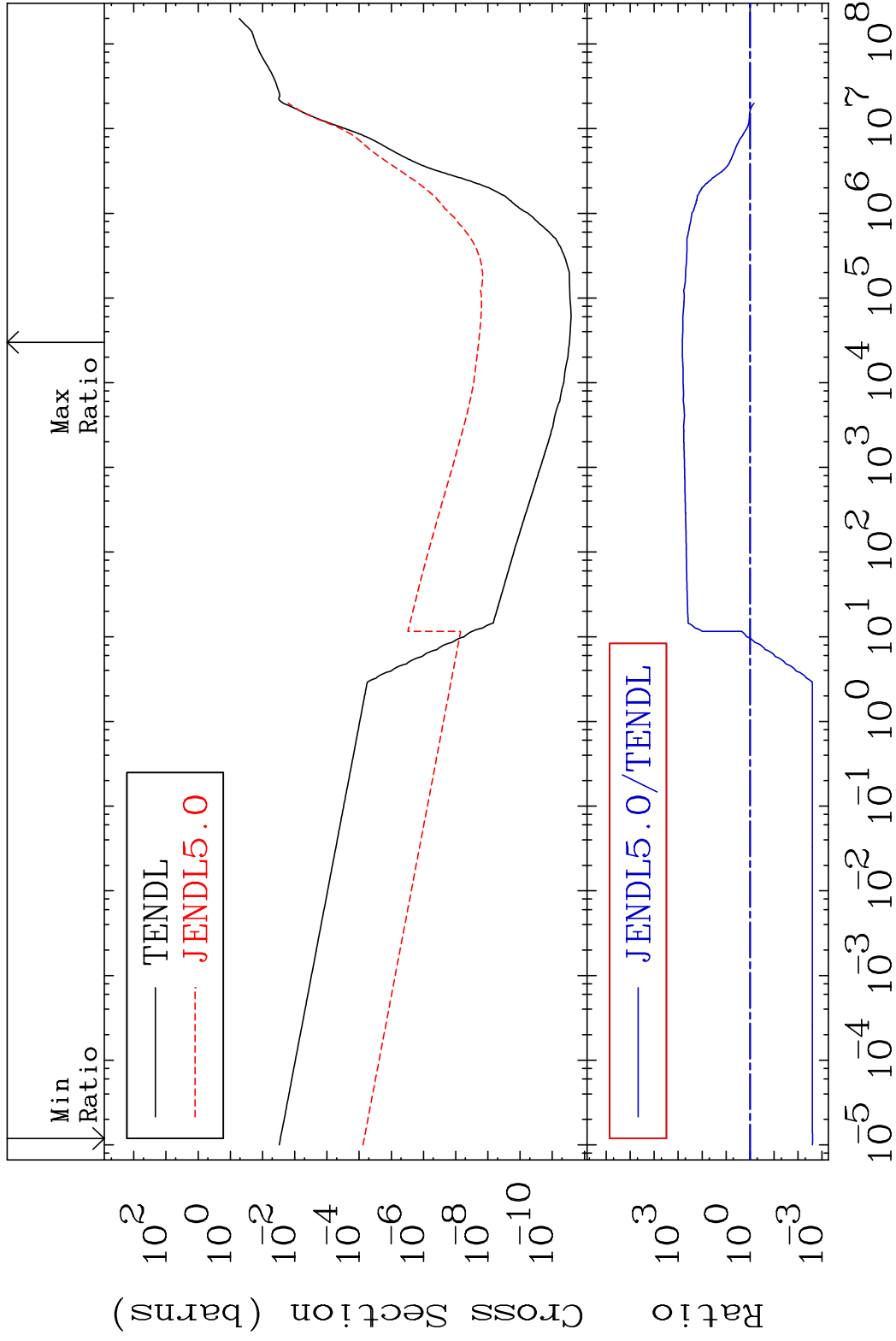
64-Gd-154

MAT 6431

He-4 Production

64-Gd-154

Cross Section -99.75 To 9999. %

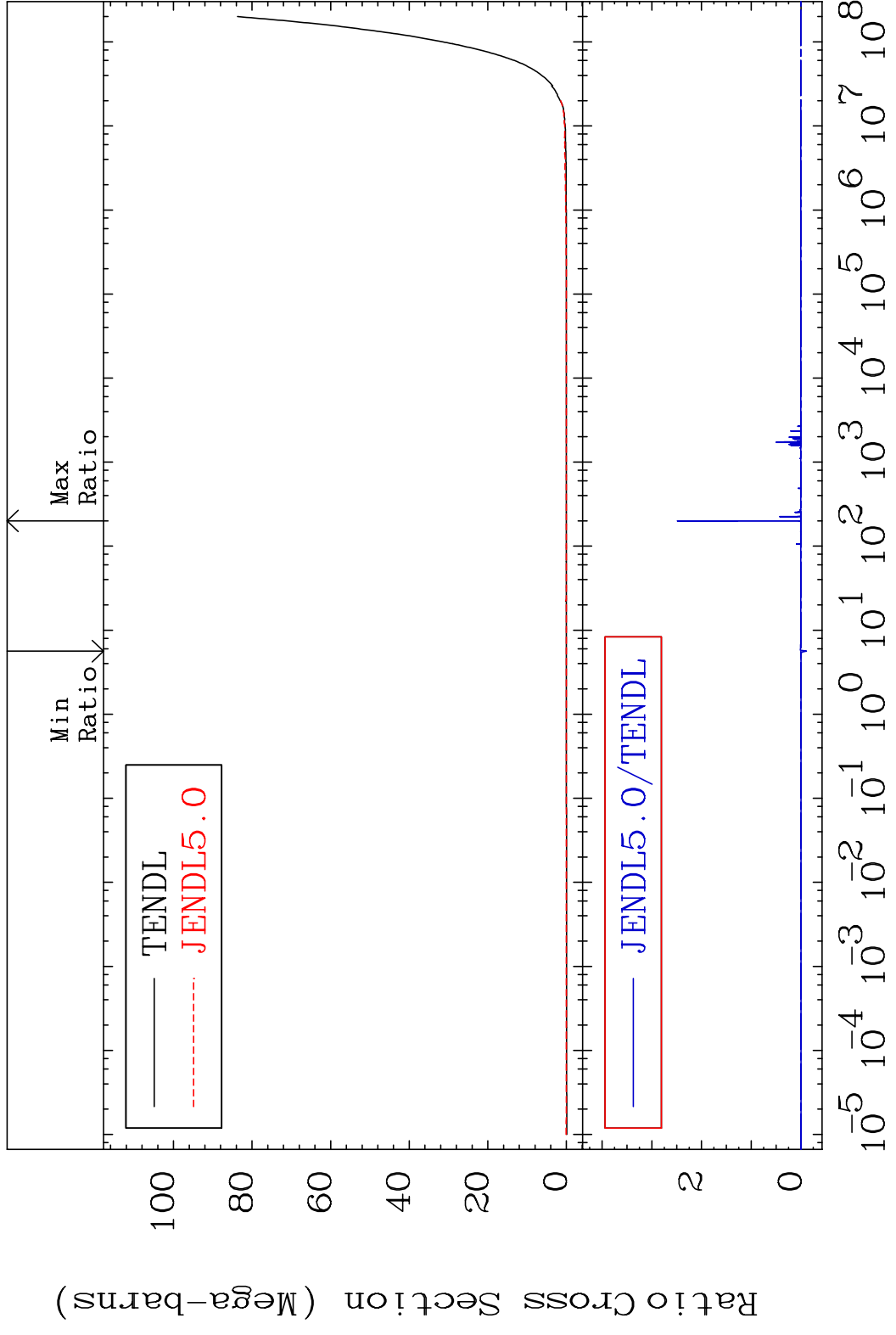


46

Incident Energy (eV)

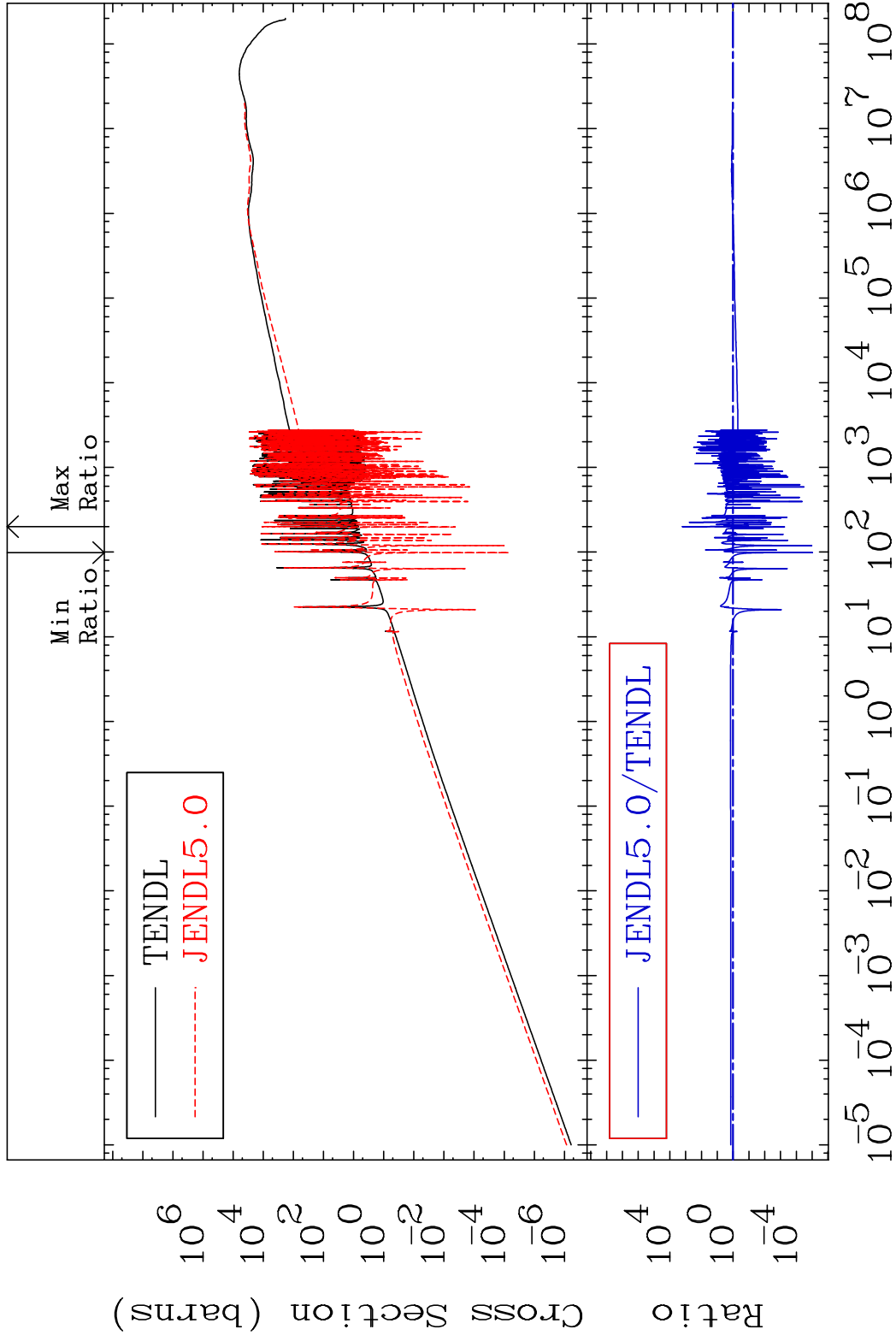
64-Gd-154

MAT 6431 Kerma total (eV-barns) 64-Gd-154
Cross Section -9999. To 9999. %

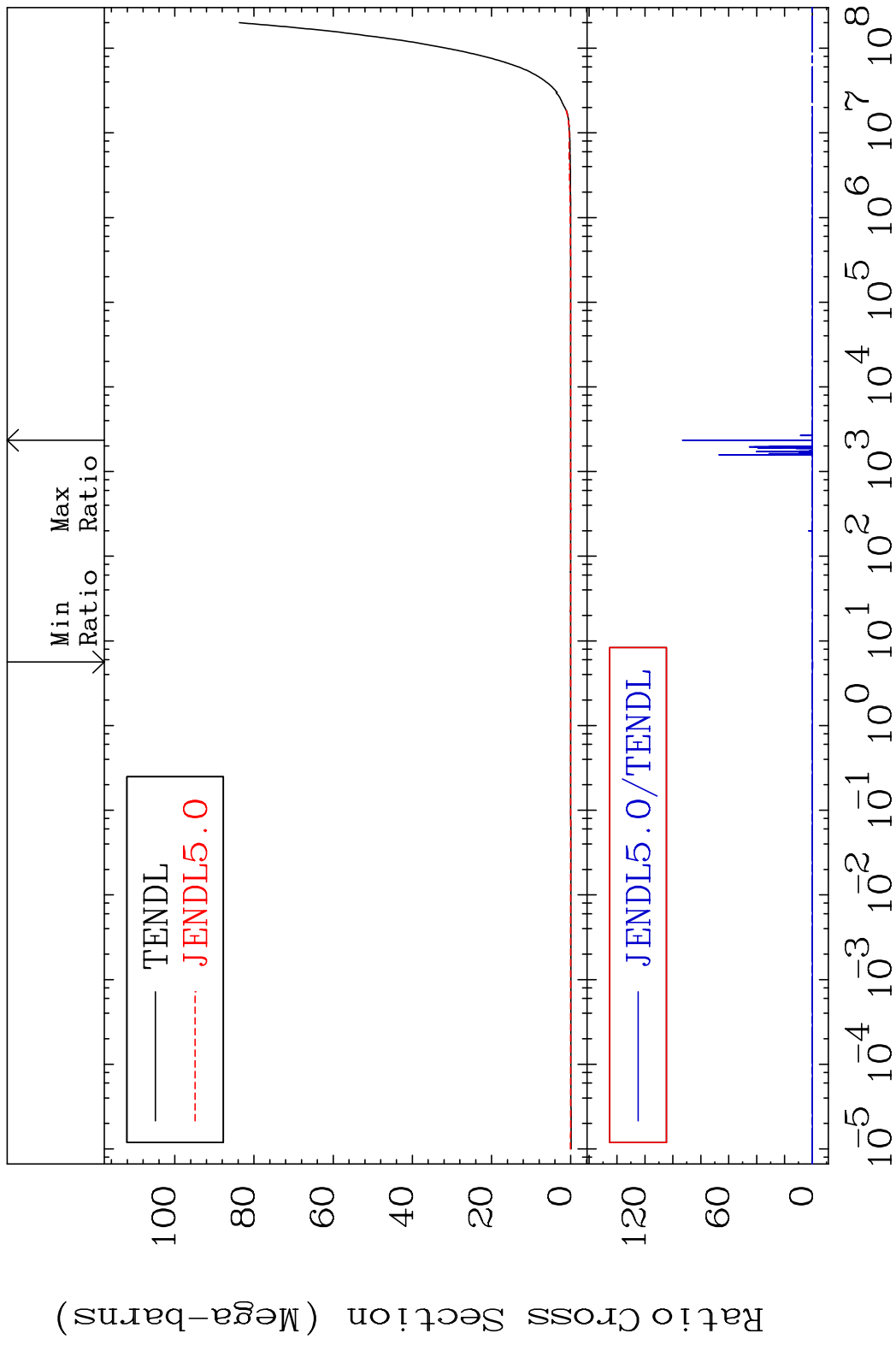


MAT 6431

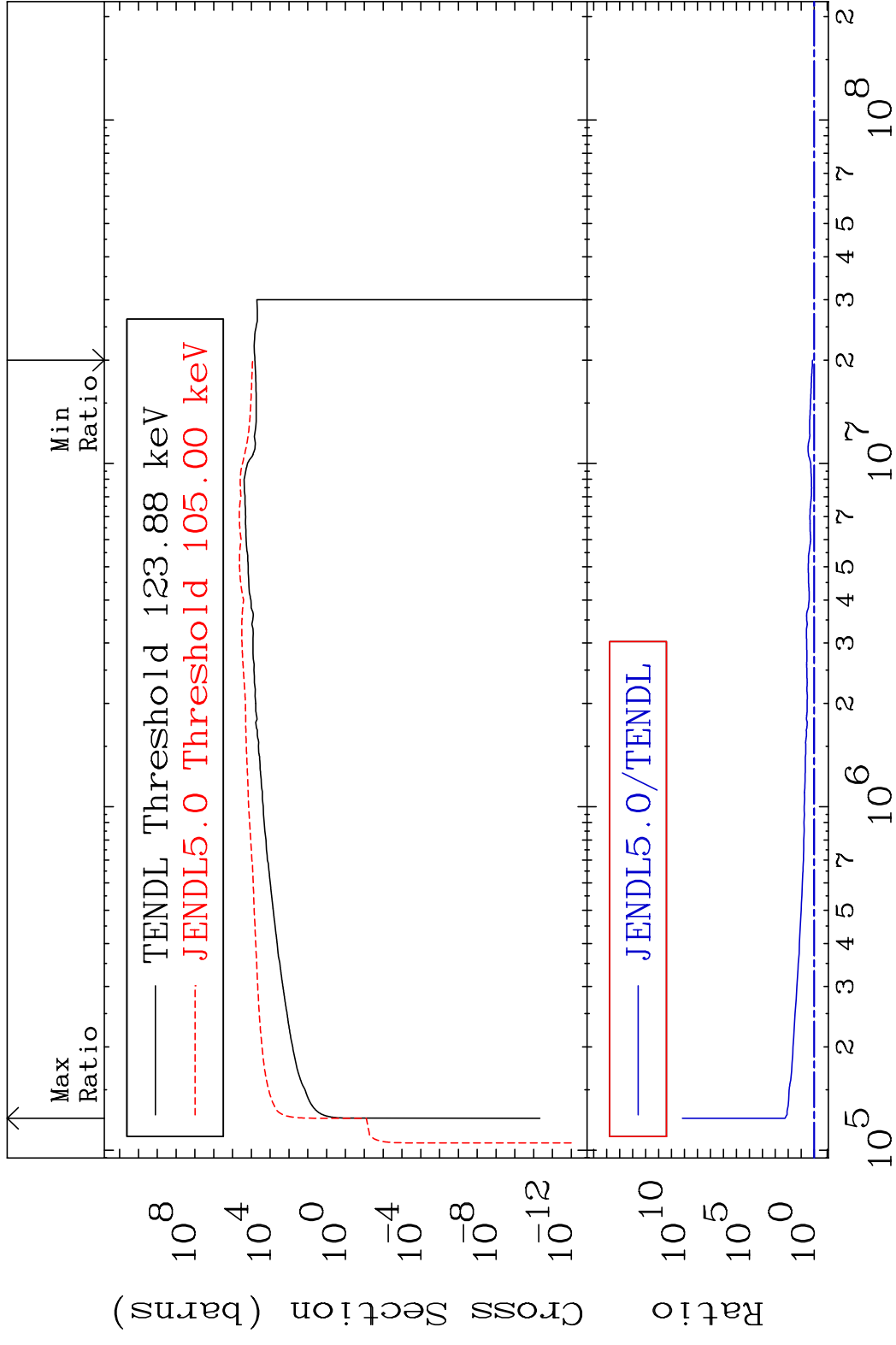
Kerma elastic Cross Section -100.0 To 9999. %
64-Gd-154



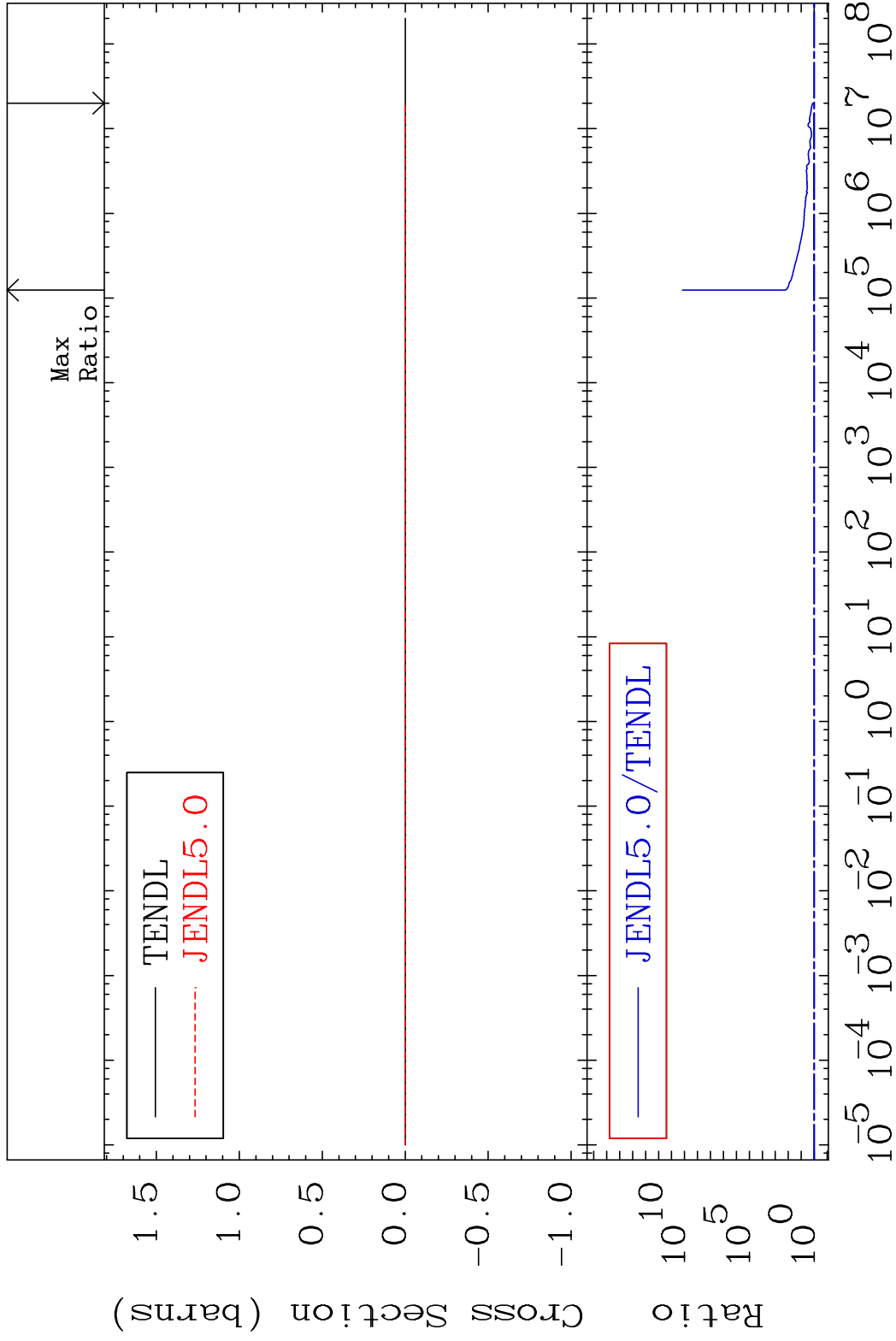
MAT 6431 Kerma non-elastic (all but mt2) 64-Gd-154
 Cross Section -4935. To 9999. %



MAT 6431 Kerma inelastic (mt51-91) 64-Gd-154
 Cross Section 34.60 To 9999. %



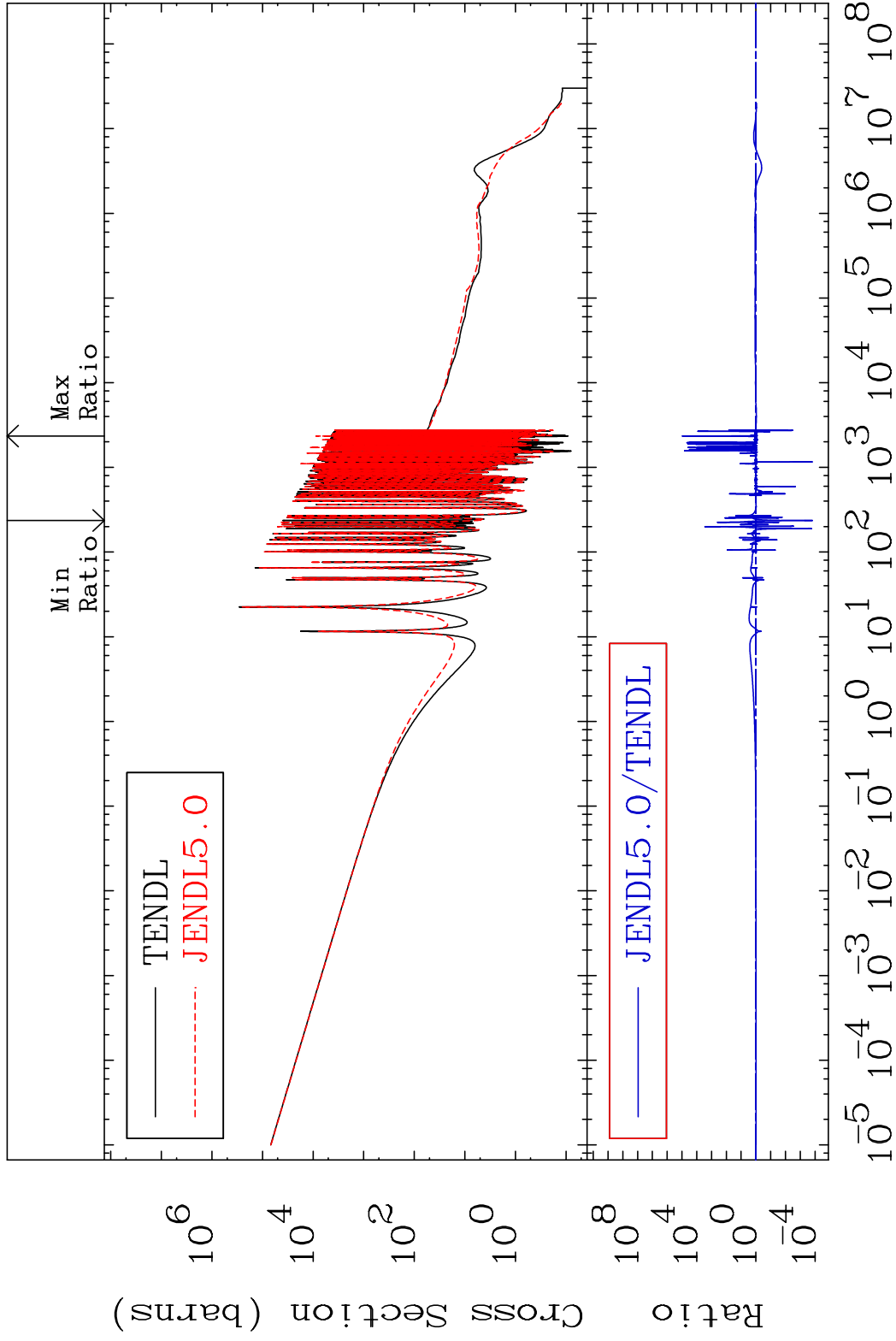
MAT 6431 Kerma fission (mt18 or mt19-20-21-38) 64-Gd-154
 Cross Section 34.60 To 9999. %



MAT 6431

Kerma capture (mt102) 64-Gd-154

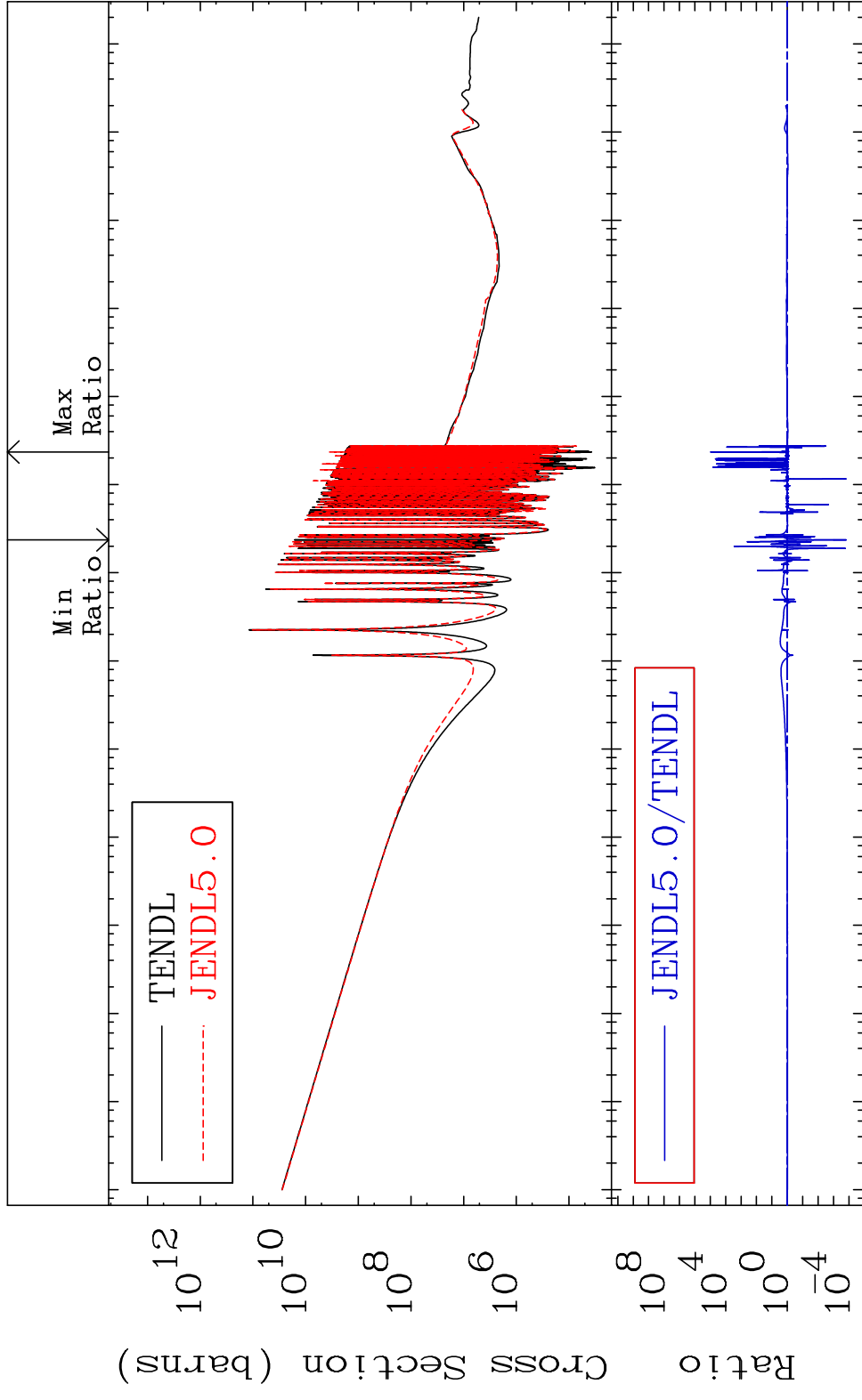
Cross Section -99.99 To 9999. %



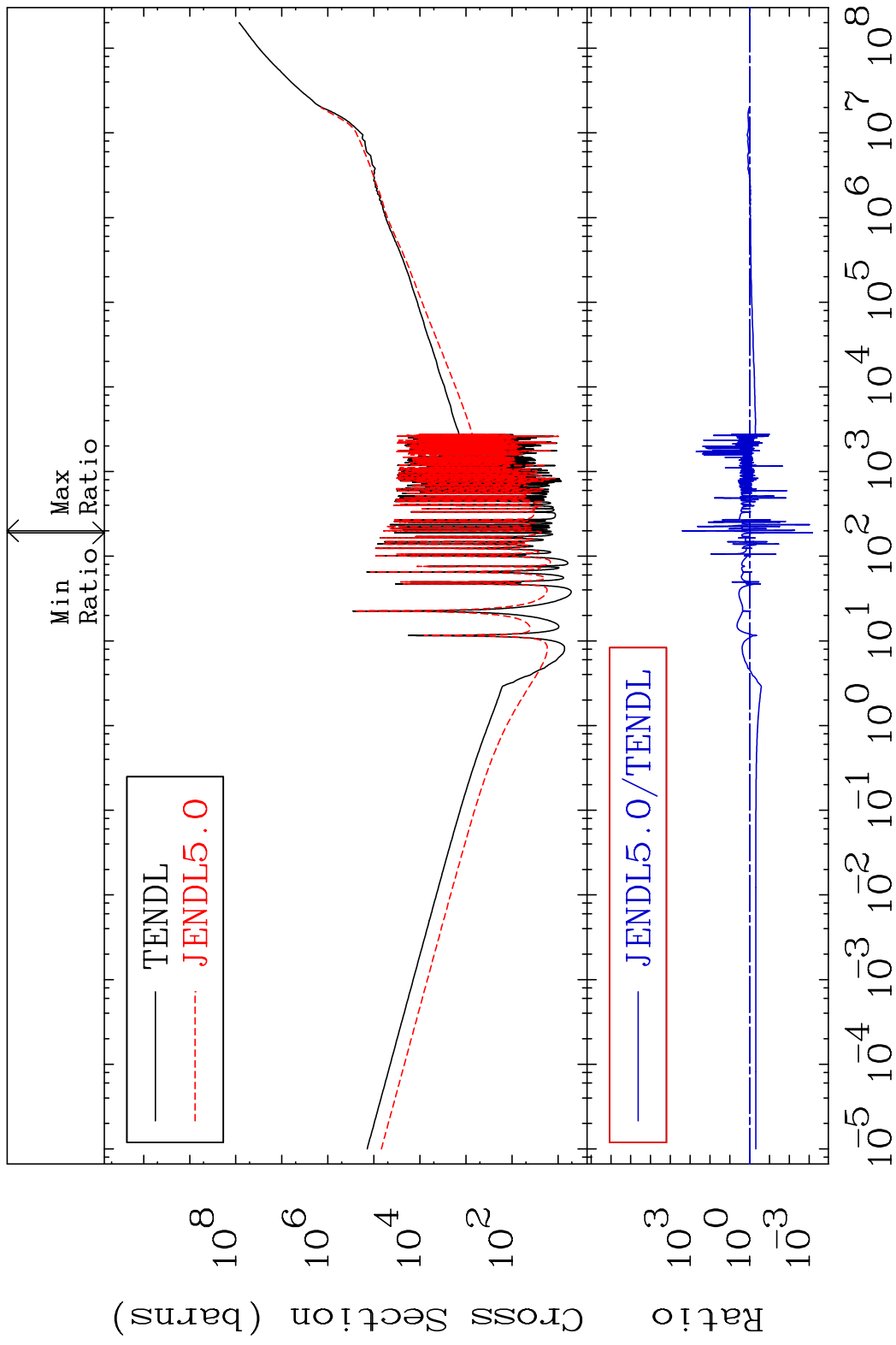
52

Incident Energy (eV) 64-Gd-154

MAT 6431 Total photon (eV-barns) 64-Gd-154
 Cross Section -99.99 To 9999. %



MAT 6431 Total kinematic kerma (high limit) 64-Gd-154
 Cross Section -99.93 To 9999. %

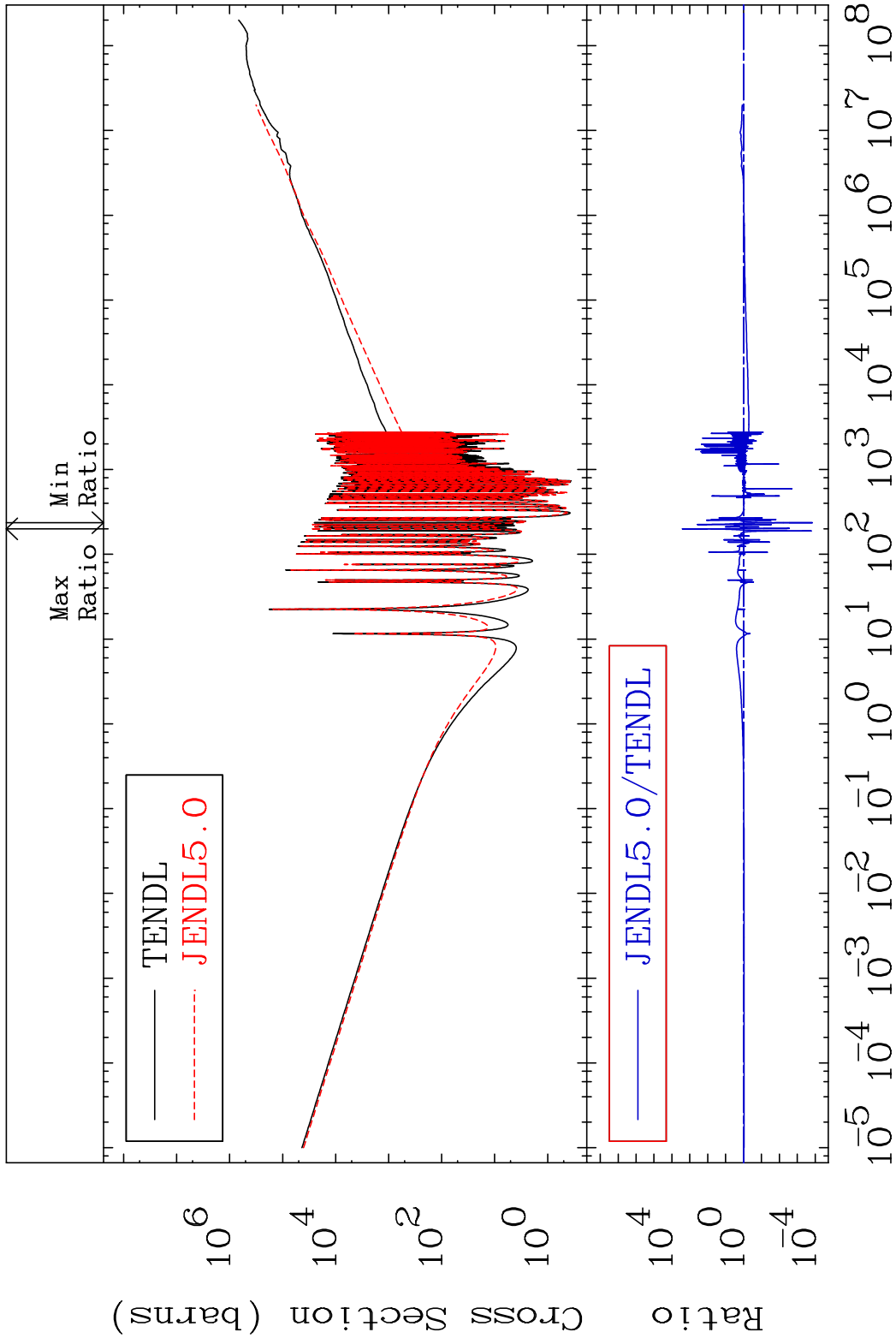


MAT 6431

Dpa total (eV-barns)

64-Gd-154

Cross Section -99.99 To 9999. %



55

Incident Energy (eV)

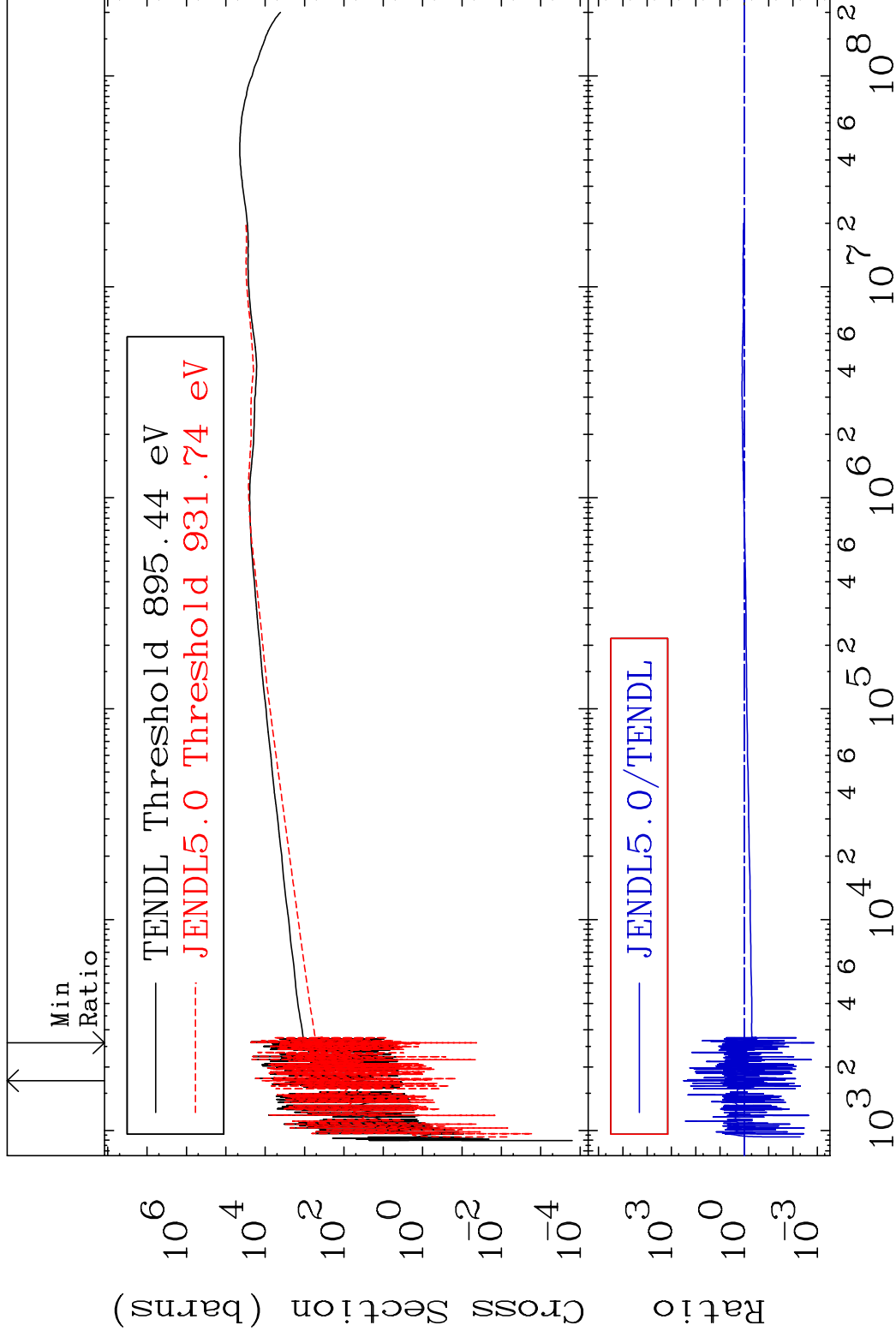
64-Gd-154

MAT 6431

Dpa elastic (mt2)

64-Gd-154

Cross Section -99.87 To 9999. %

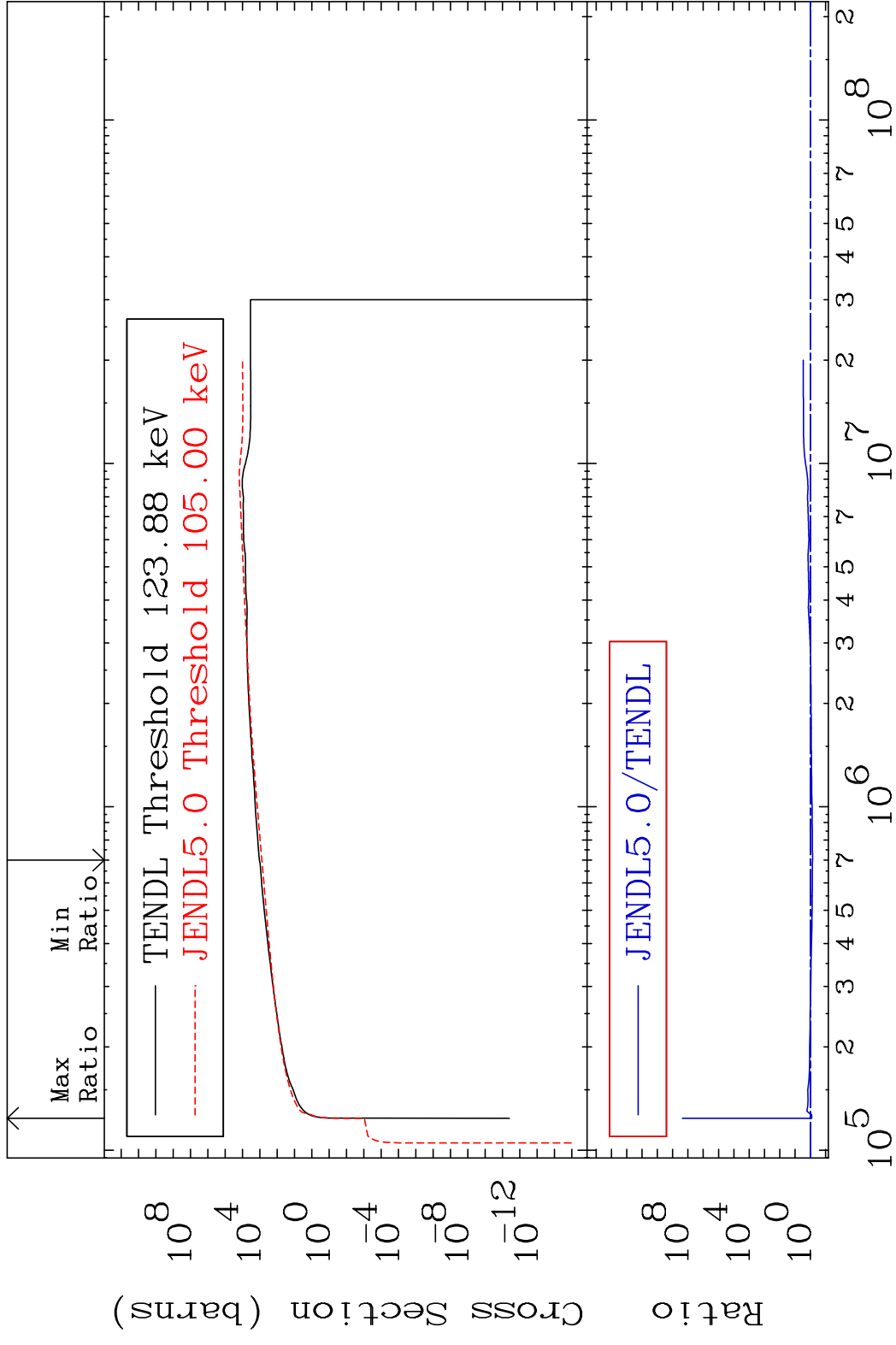


56

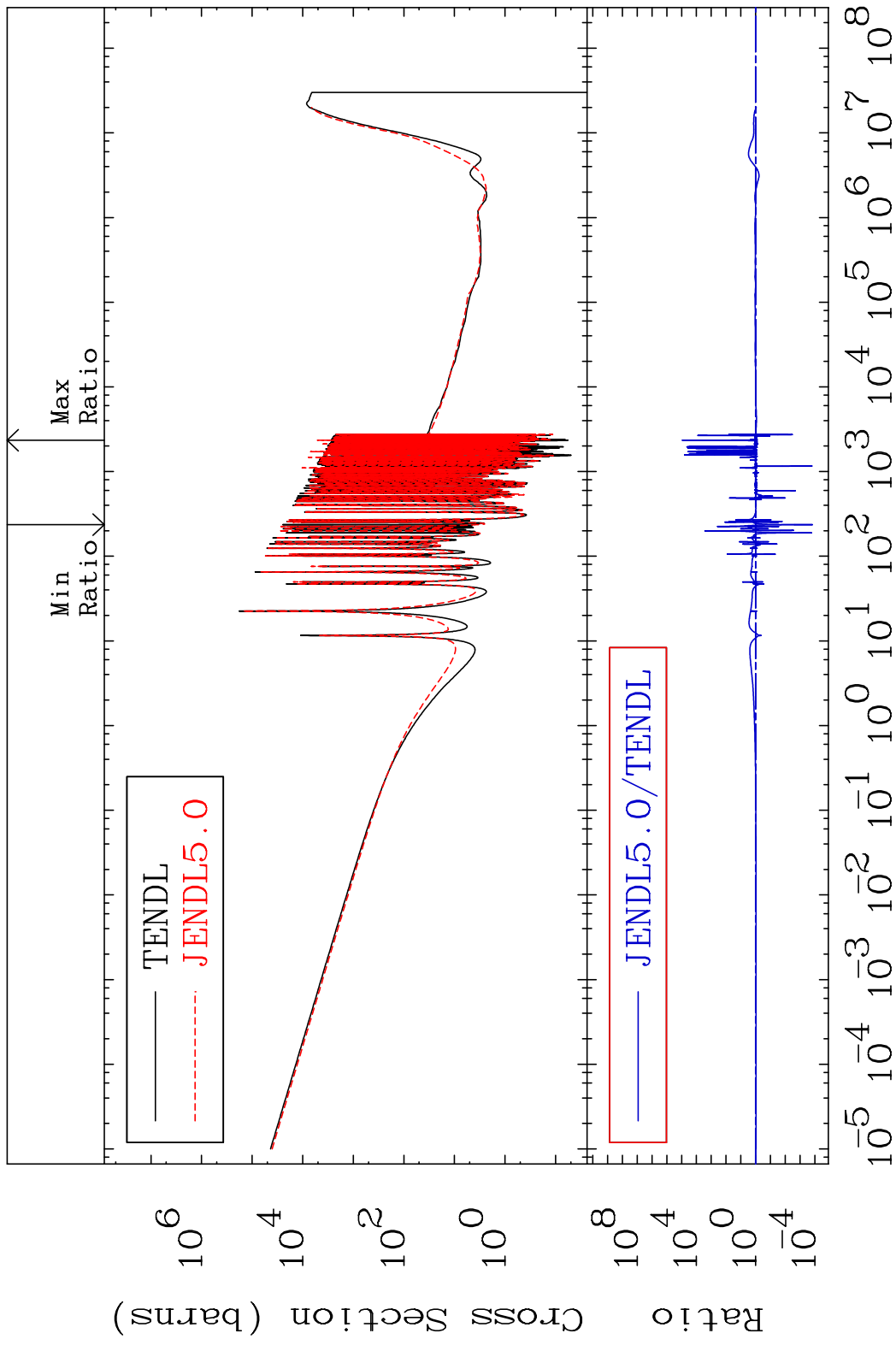
Incident Energy (eV)

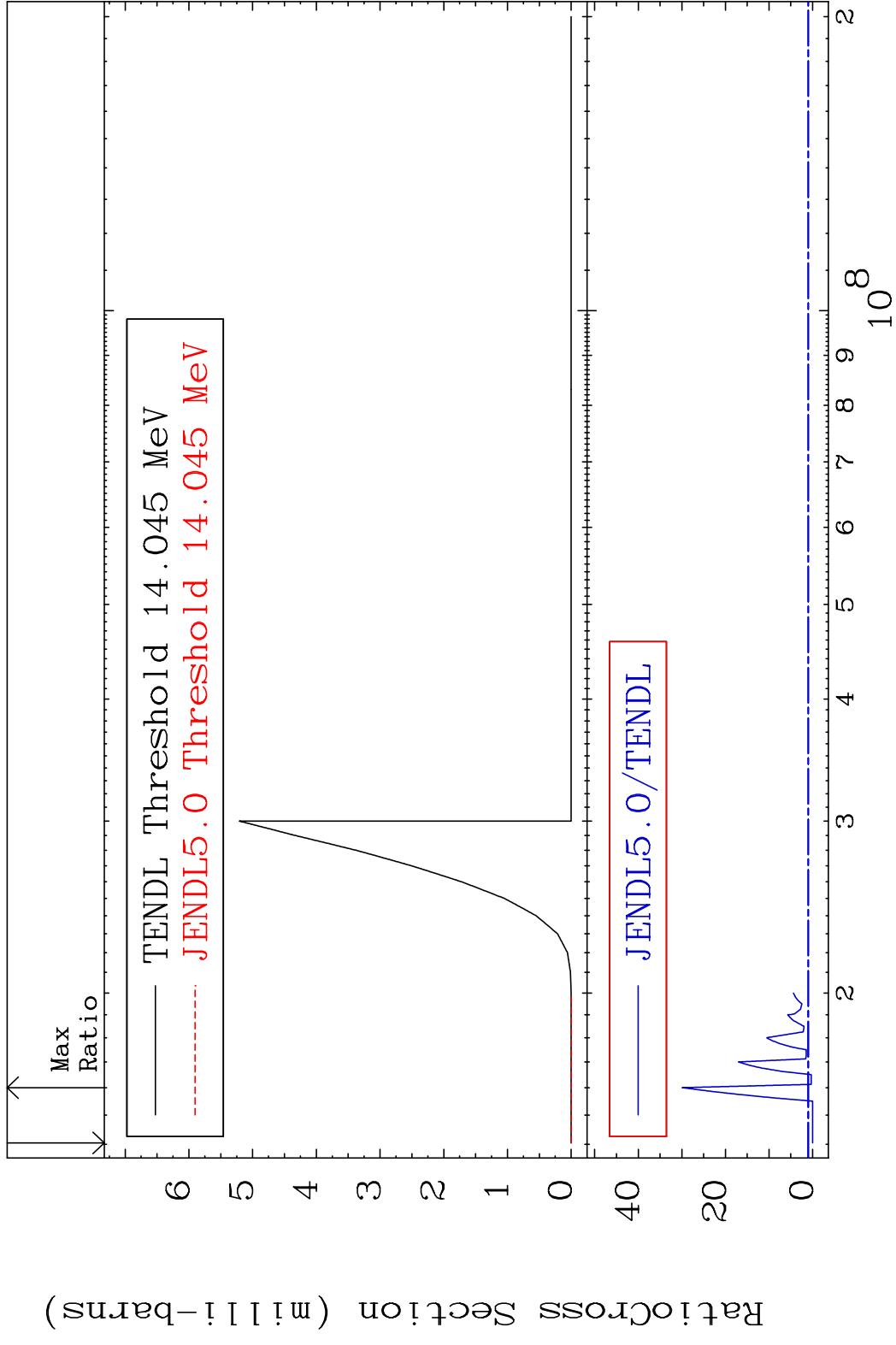
64-Gd-154

MAT 6431 Dpa inelastic (mt51-91) 64-Gd-154
 Cross Section -28.23 To 9999. %



MAT 6431 Dpa disappearance (mt102 -120) 64-Gd-154
 Cross Section -99.99 To 9999. %





MAT 6431 (n, n') d:63-Eu-152m1 64-Gd-154
 Radionuclide Production Cross Section 180.0 dth 3276. %

