

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

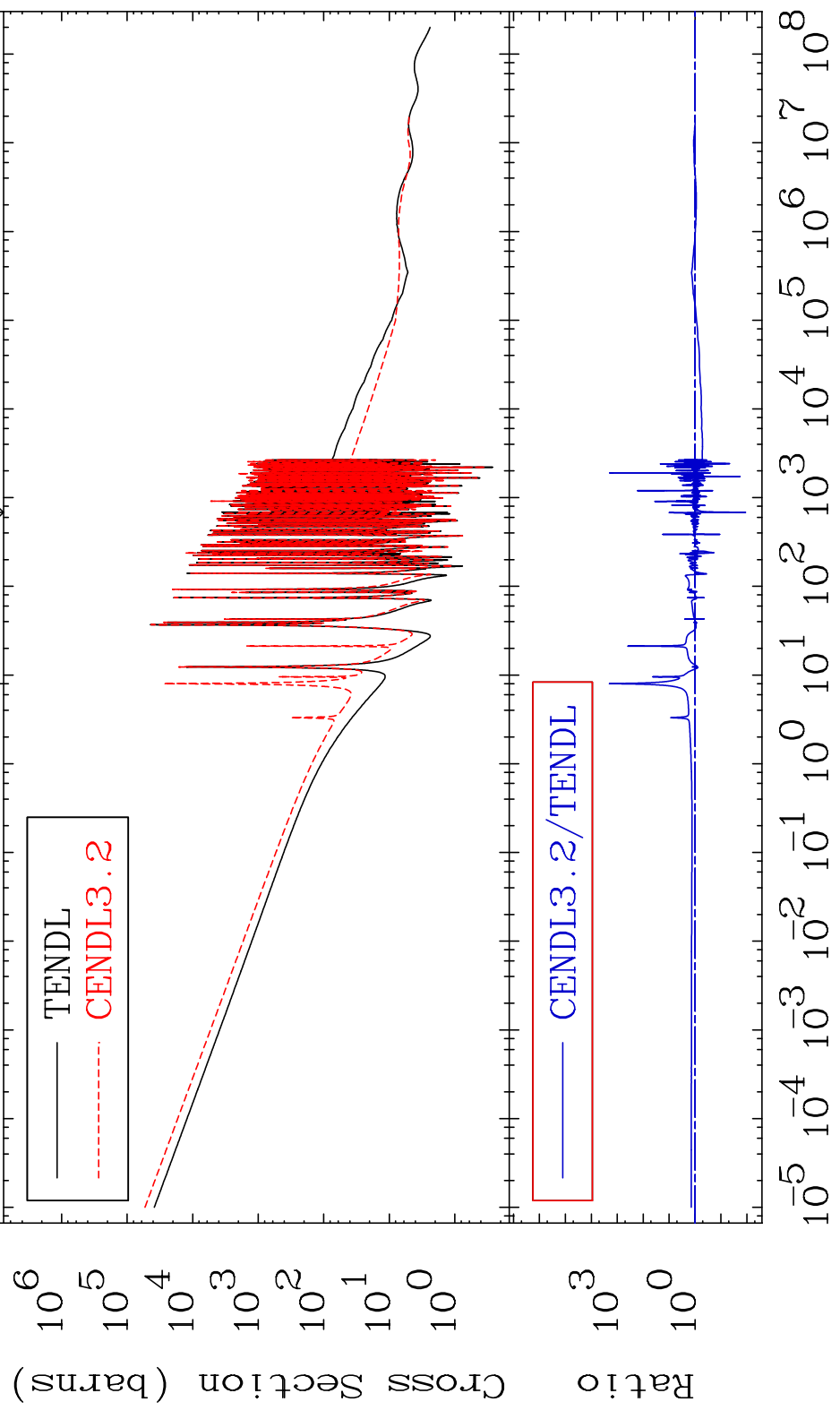
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6425

Total Cross Section -98.86 To 9999. %

64-Gd-152



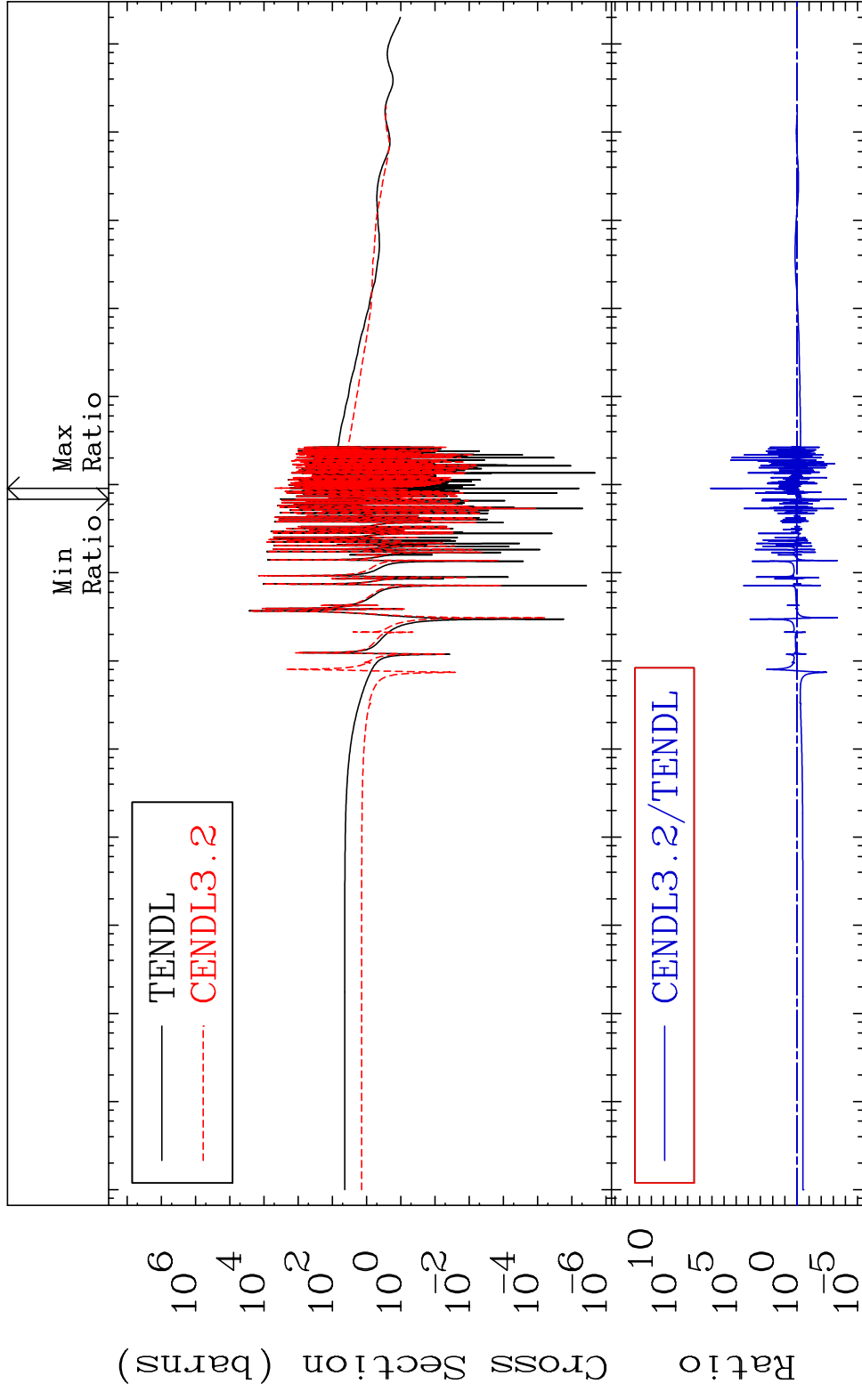
1 Incident Energy (eV) 64-Gd-152

MAT 6425

Elastic

64-Gd-152

Cross Section -99.99 To 9999. %

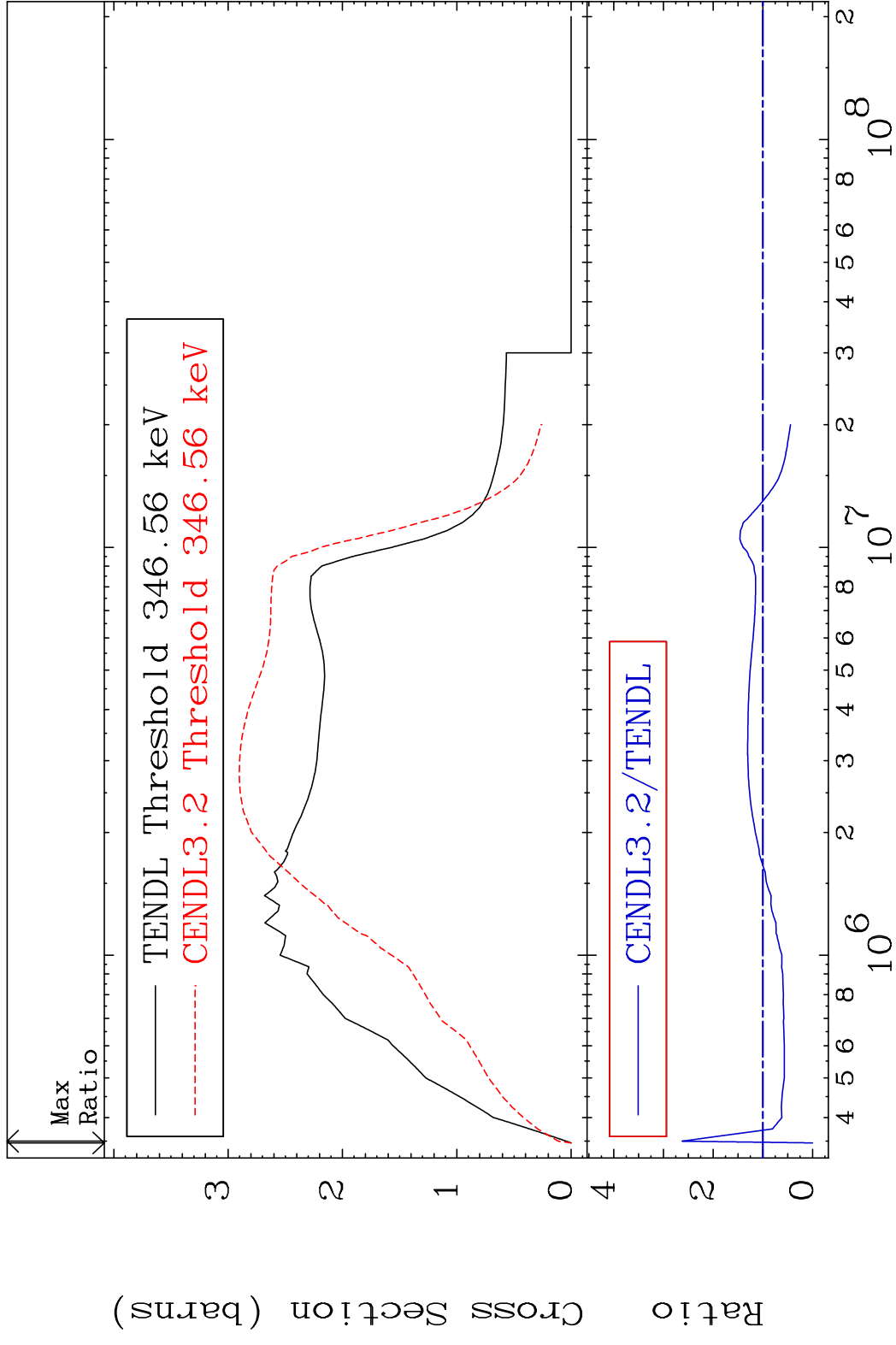


2

Incident Energy (eV)

64-Gd-152

MAT 6425 Inelastic 64-Gd-152
 Cross Section -100.0 To 162.0 %



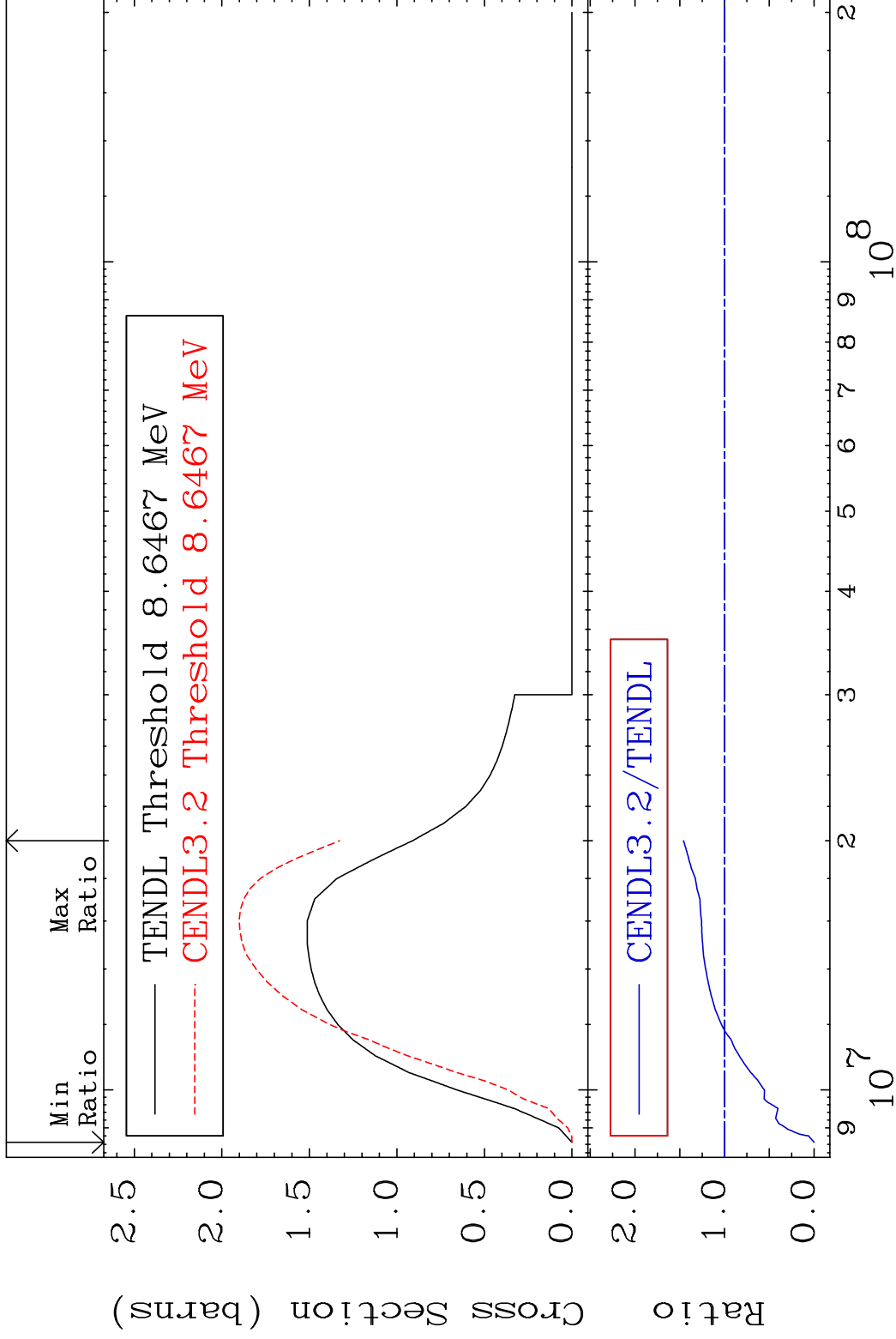
3 Incident Energy (eV) 64-Gd-152

MAT 6425

(n,2n)

64-Gd-152

Cross Section -100.0 To 45.90 %

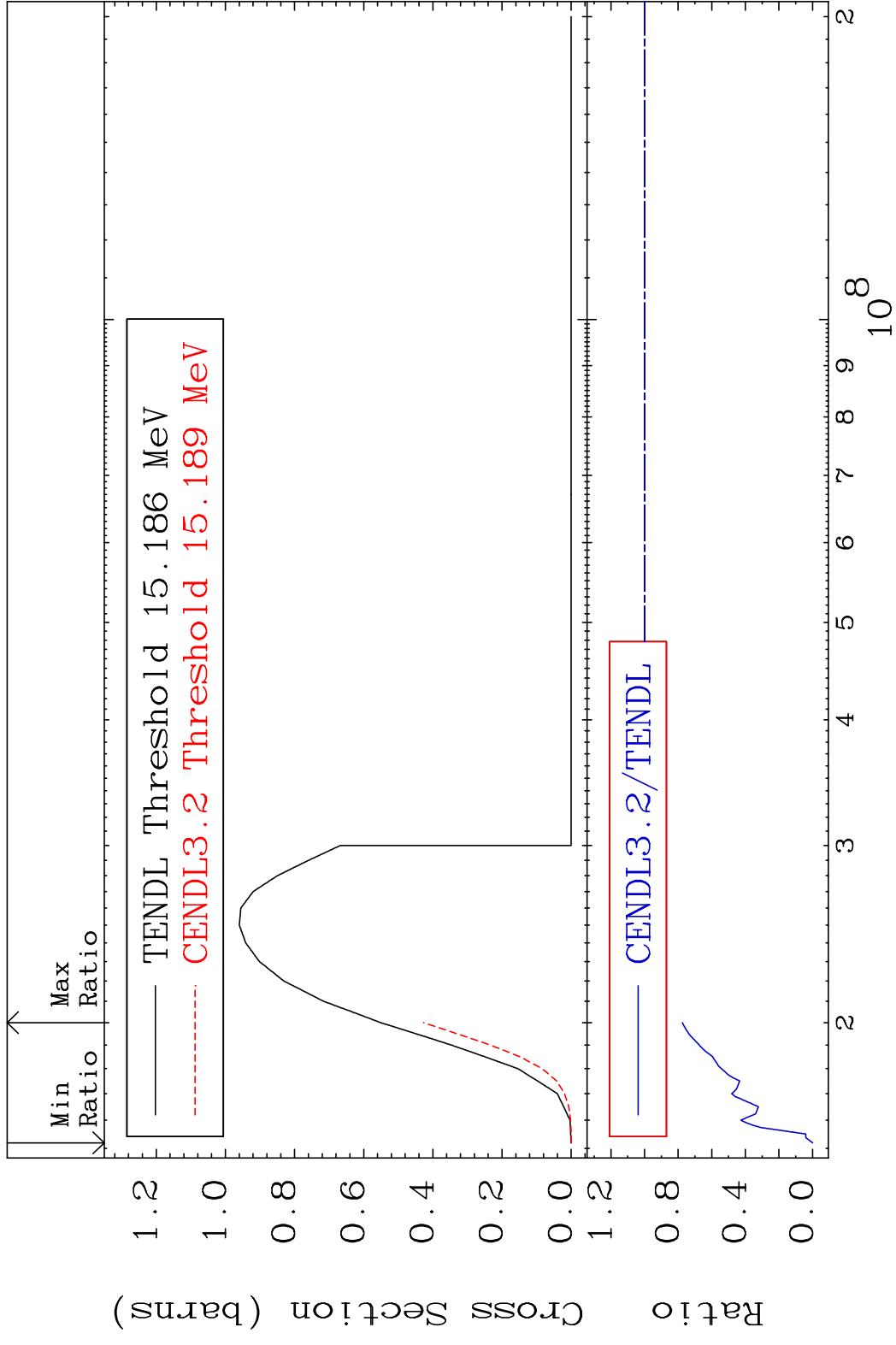


4

Incident Energy (eV)

64-Gd-152

MAT 6425 (n,3n) 64-Gd-152
 Cross Section -100.0 To -22.51%

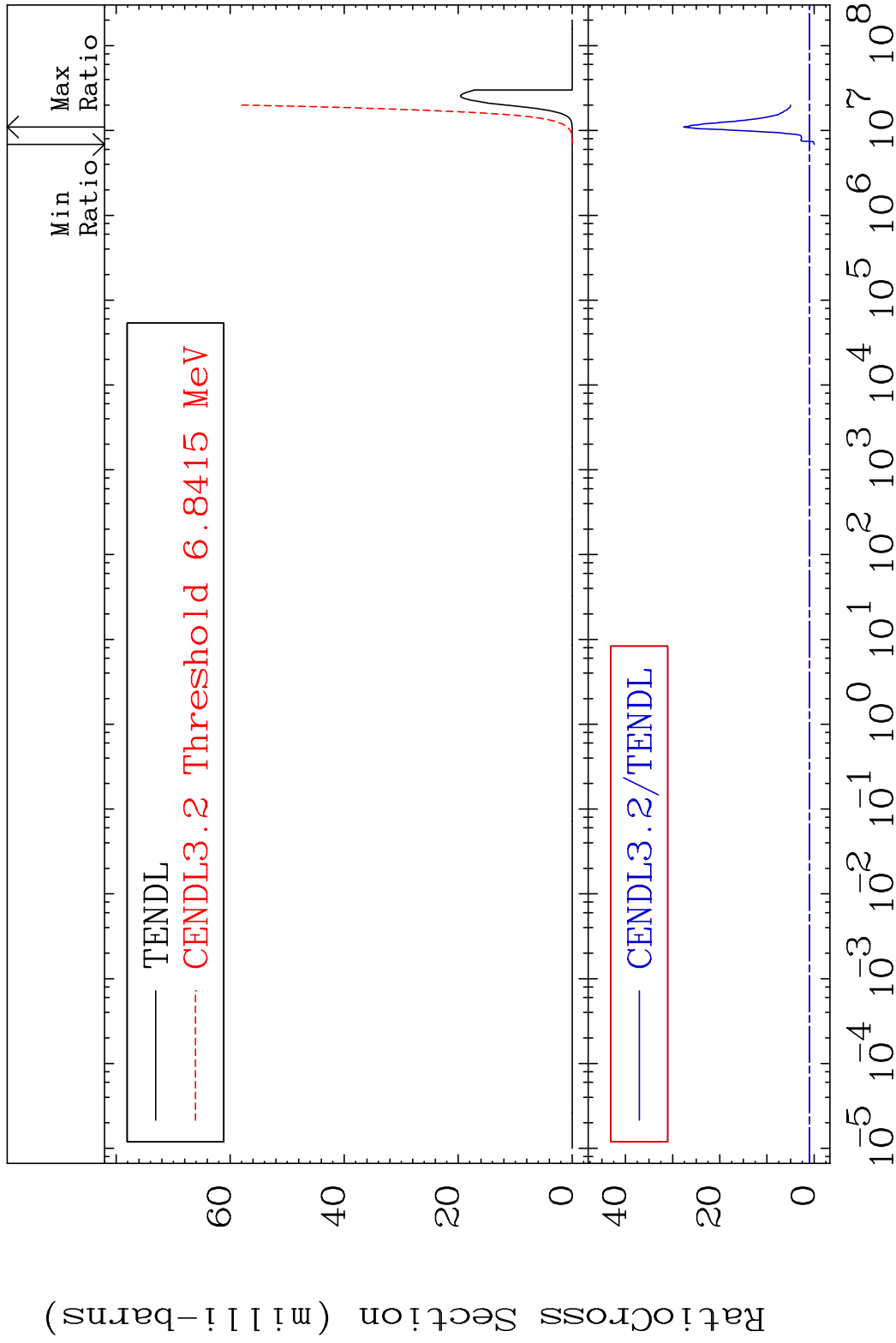


MAT 6425

(n, n') α

64-Gd-152

Cross Section -100.0 To 2666. %

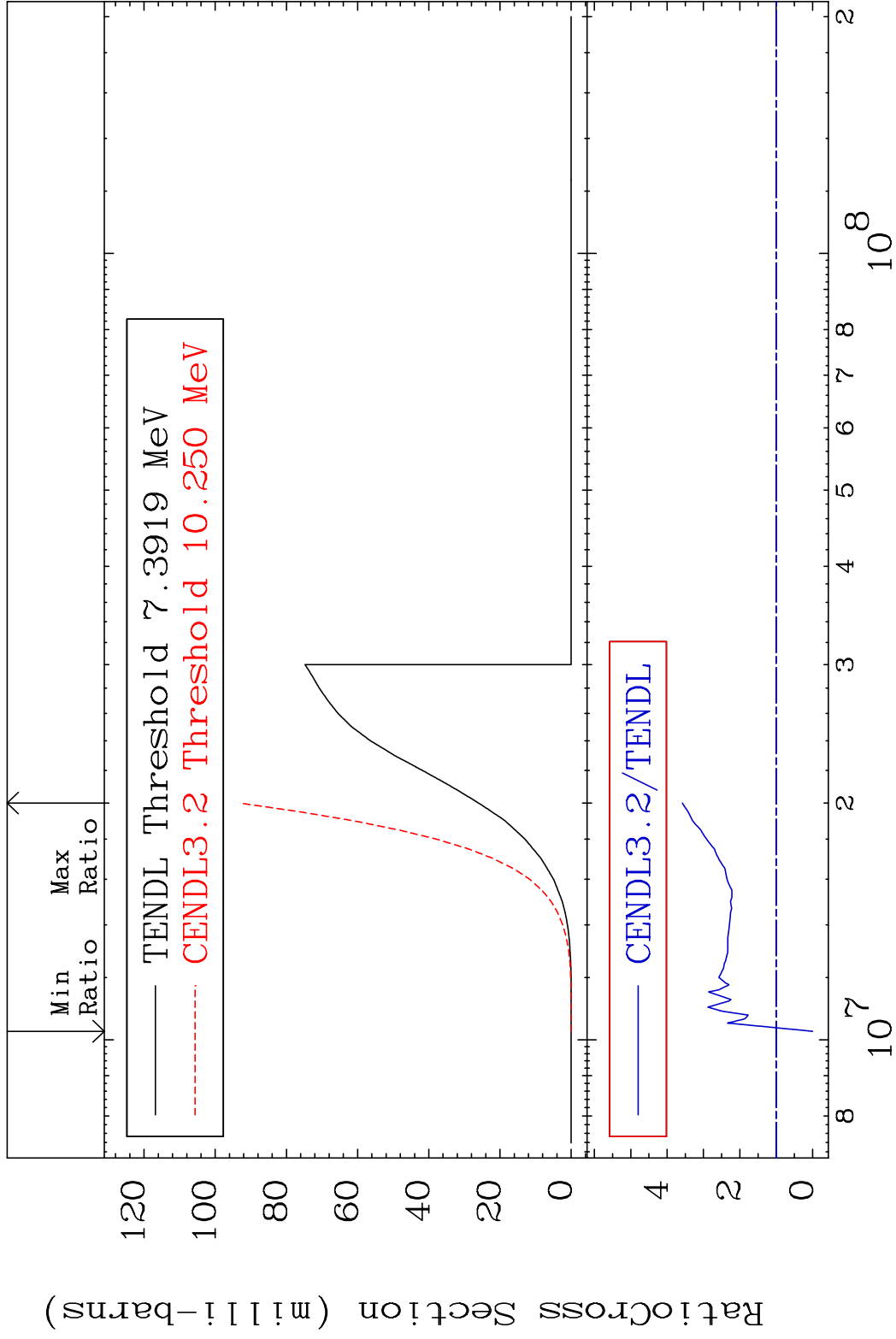


MAT 6425

(n, n') p

64-Gd-152

Cross Section -100.0 To 258.1 %

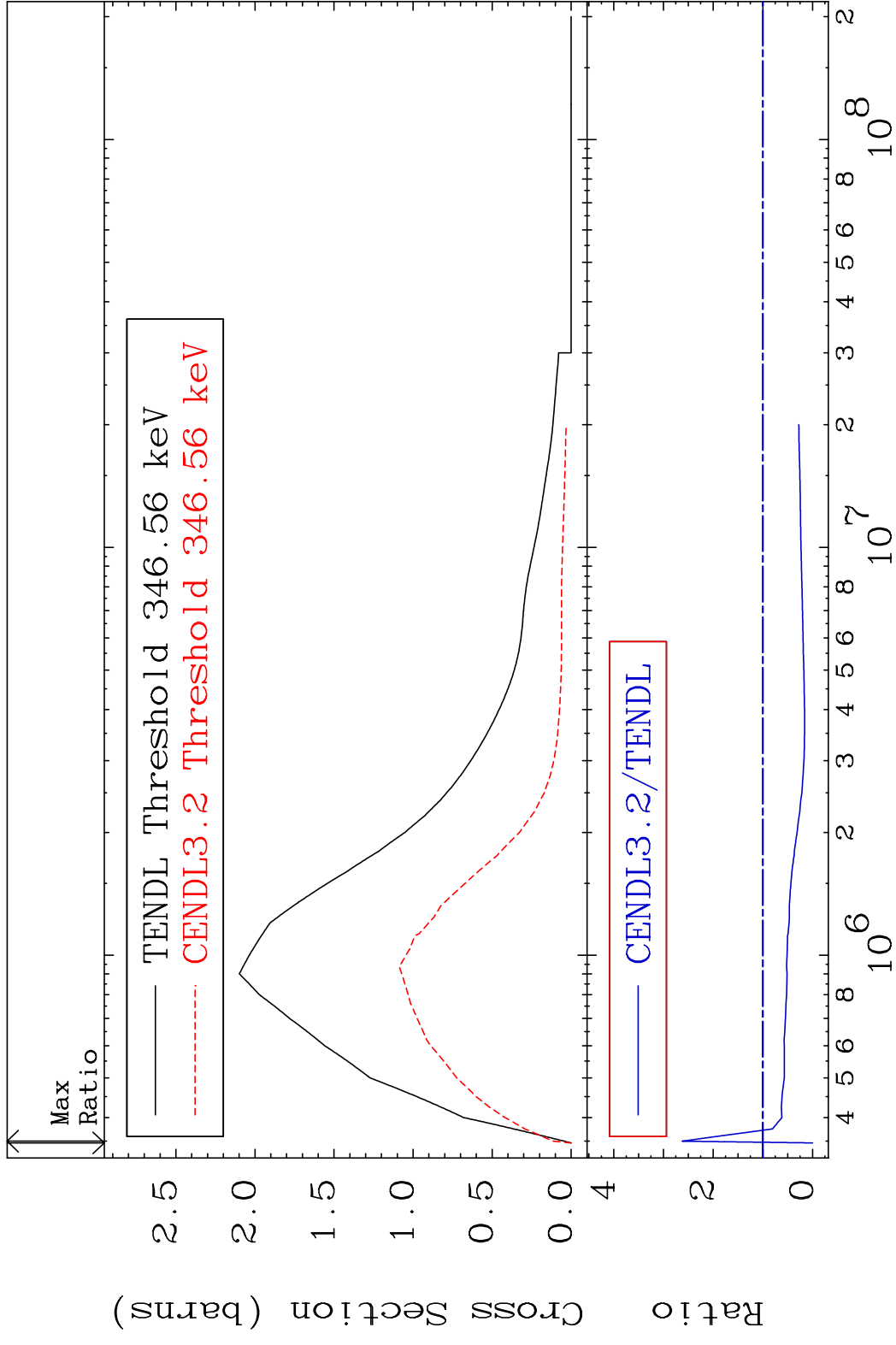


7

Incident Energy (eV)

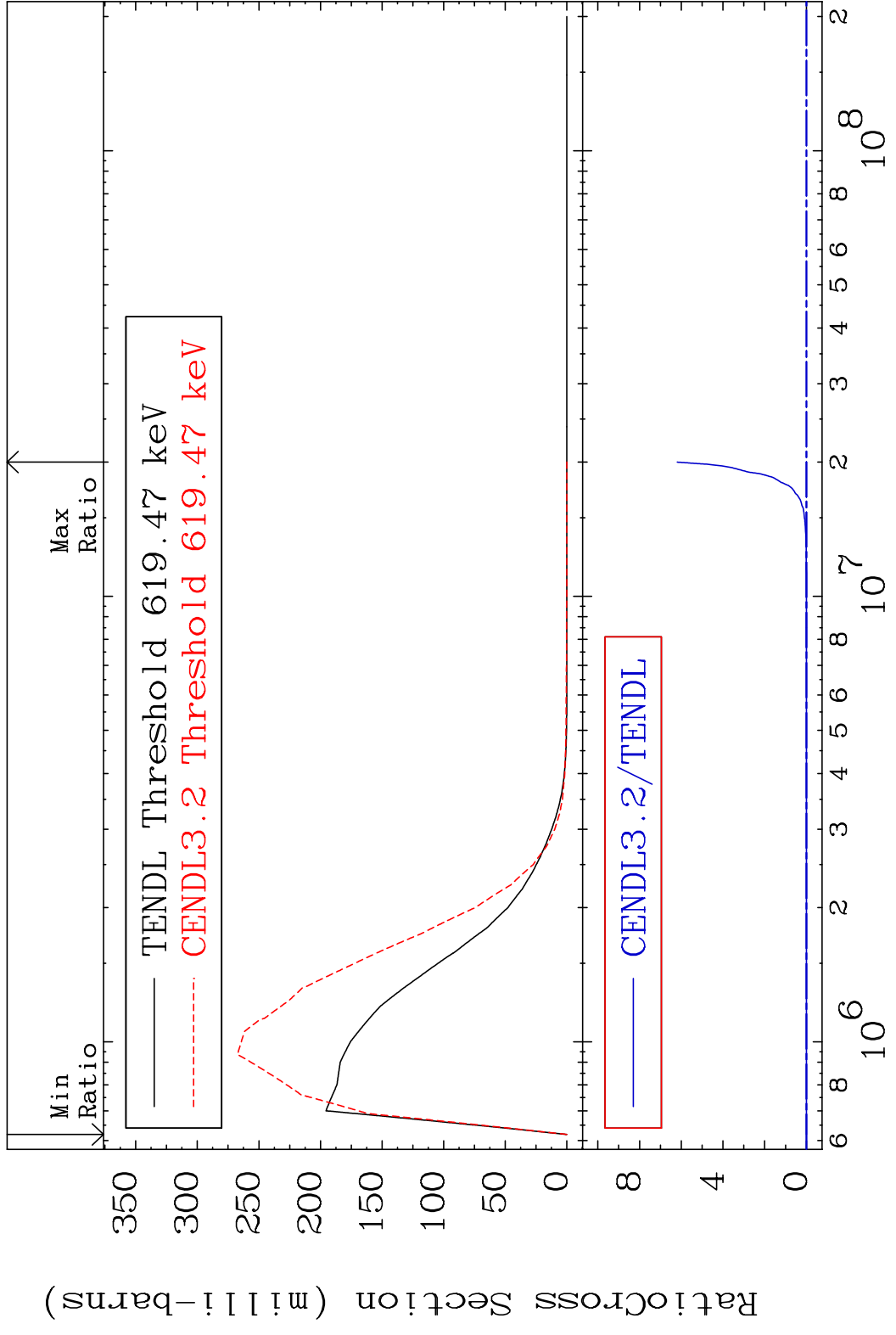
64-Gd-152

MAT 6425 MT= 51 (n,n') Level 64-Gd-152
 Cross Section -100.0 To 162.0 %

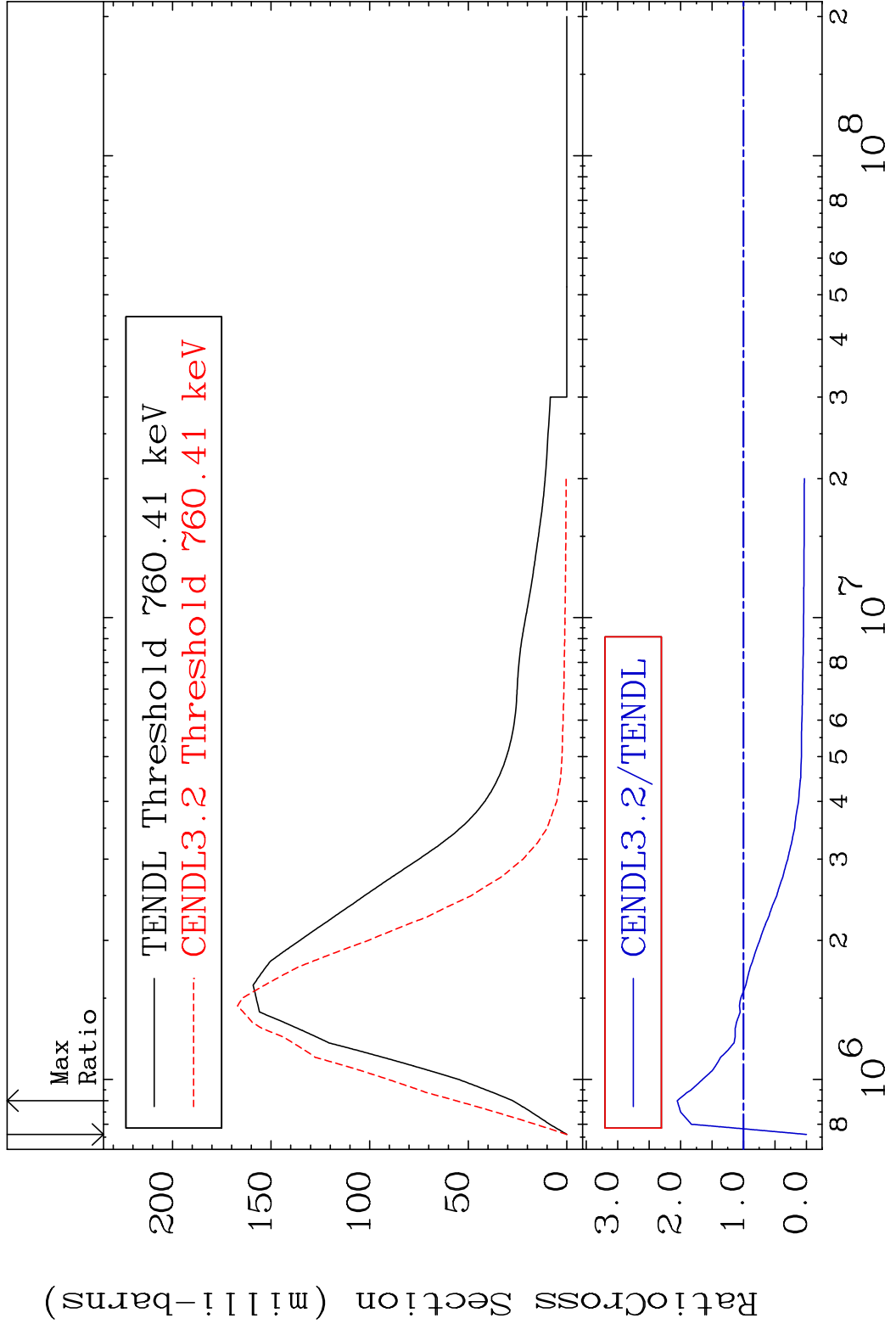


8 Incident Energy (eV) 64-Gd-152

MAT 6425 MT= 52 (n, n') Level 64-Gd-152
 Cross Section -100.0 To 9999. %

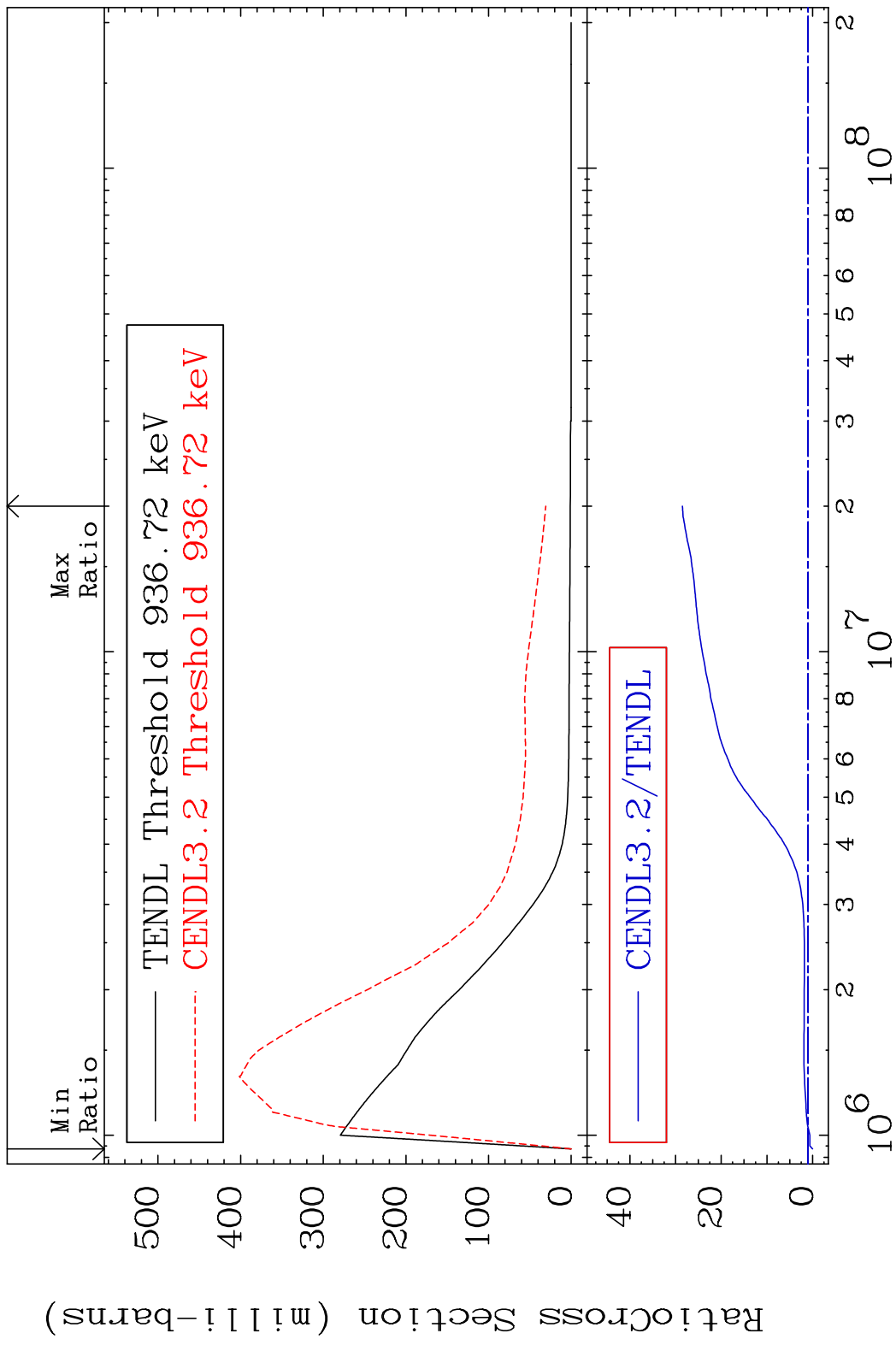


MAT 6425 MT= 53 (n,n') Level 64-Gd-152
 Cross Section -100.0 To 105.5 %



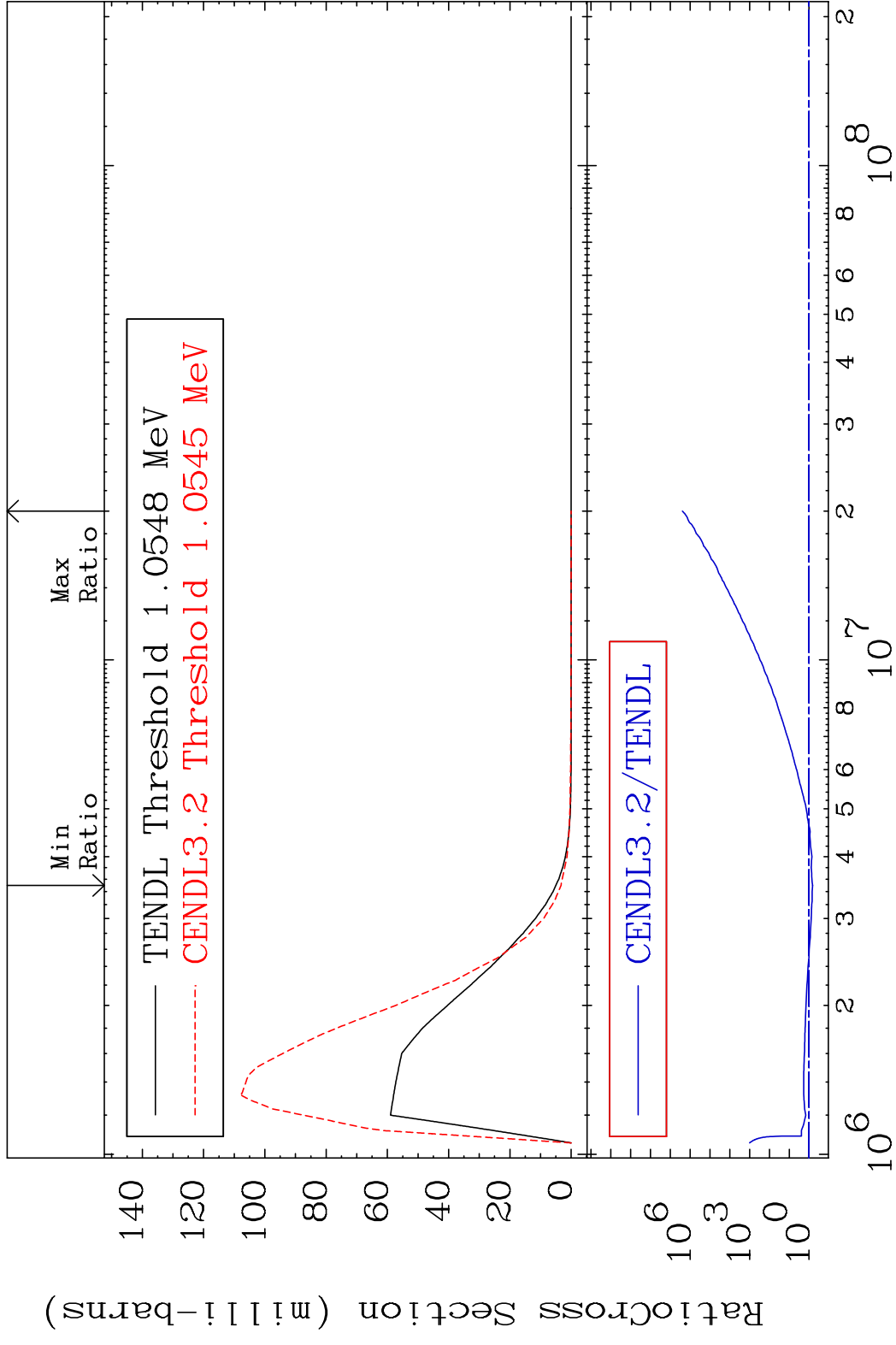
10 Incident Energy (eV) 64-Gd-152

MAT 6425 MT= 54 (n, n') Level 64-Gd-152
 Cross Section -100.0 To 2752. %

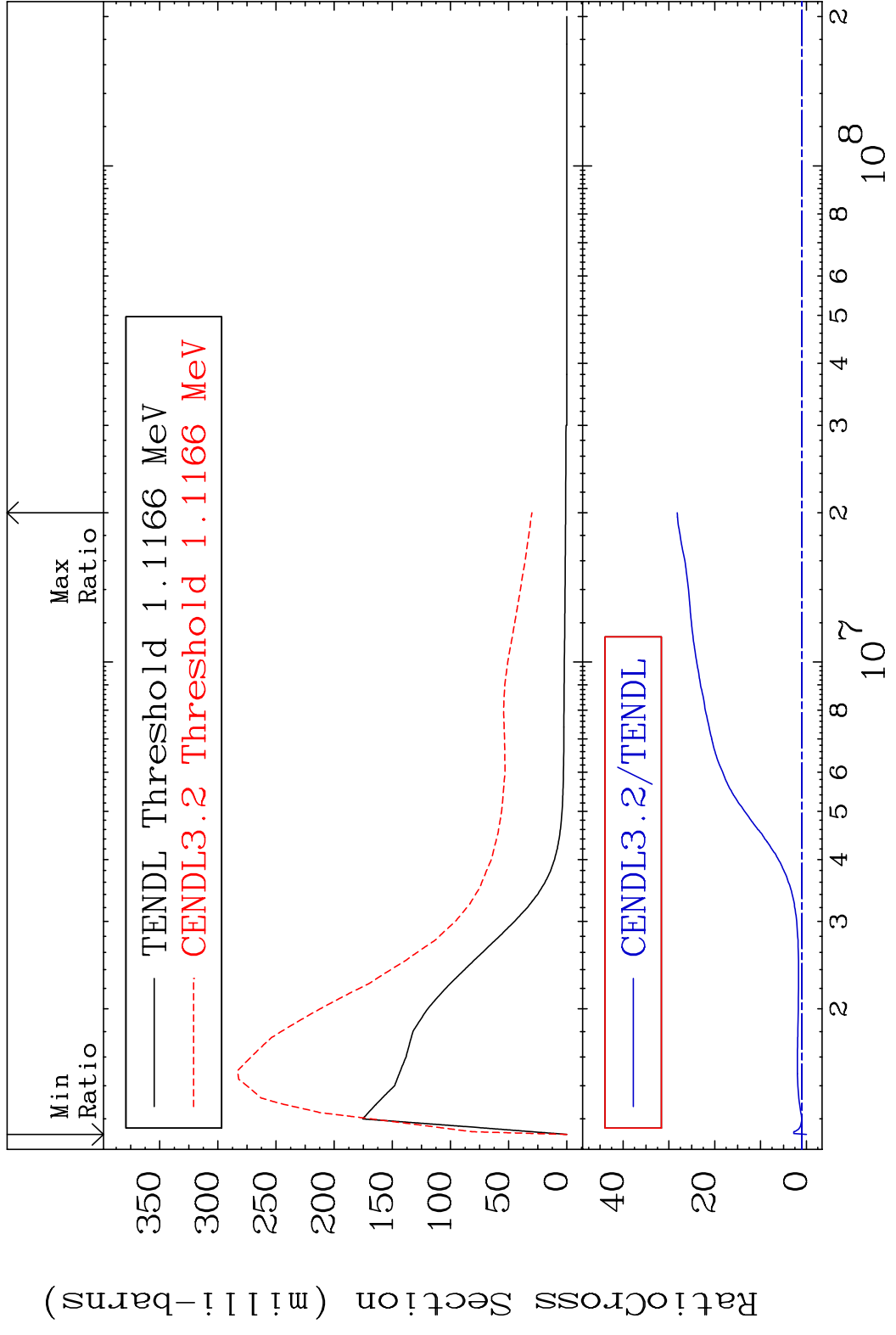


11 Incident Energy (eV) 64-Gd-152

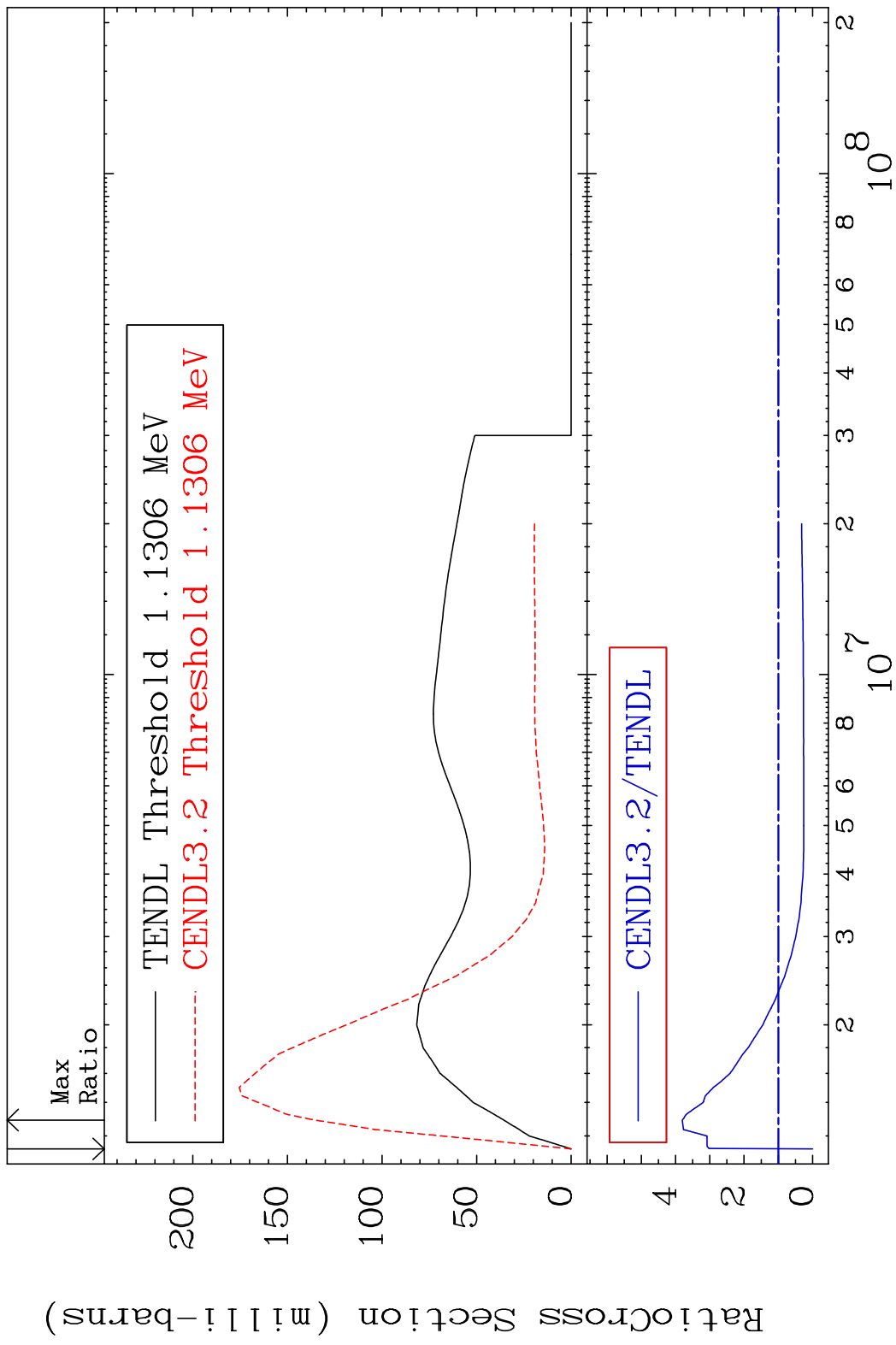
MAT 6425 MT= 55 (n, n') Level 64-Gd-152
 Cross Section -33.28 To 9999. %



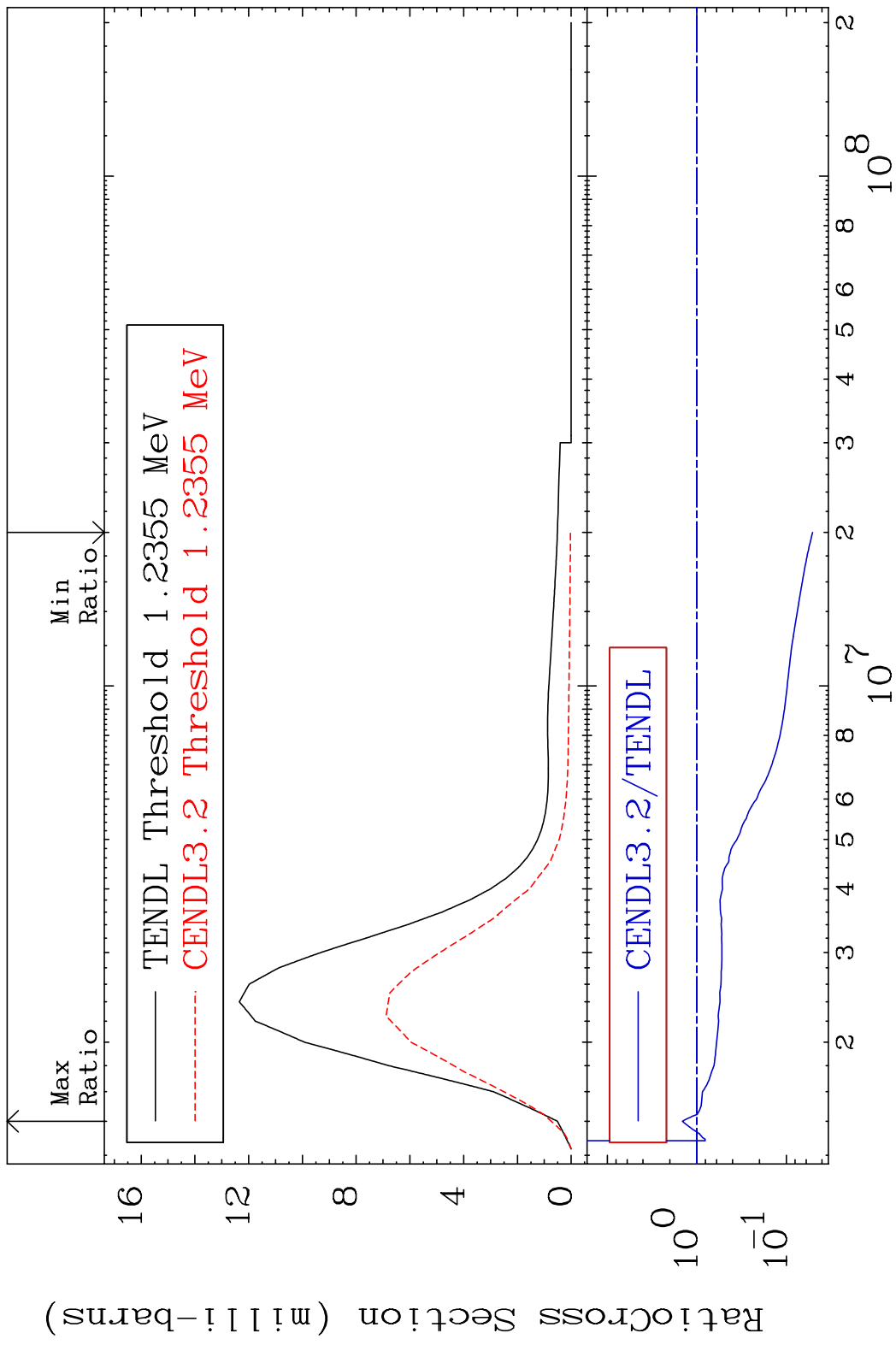
MAT 6425 MT= 56 (n, n') Level 64-Gd-152
 Cross Section -100.0 To 2719. %



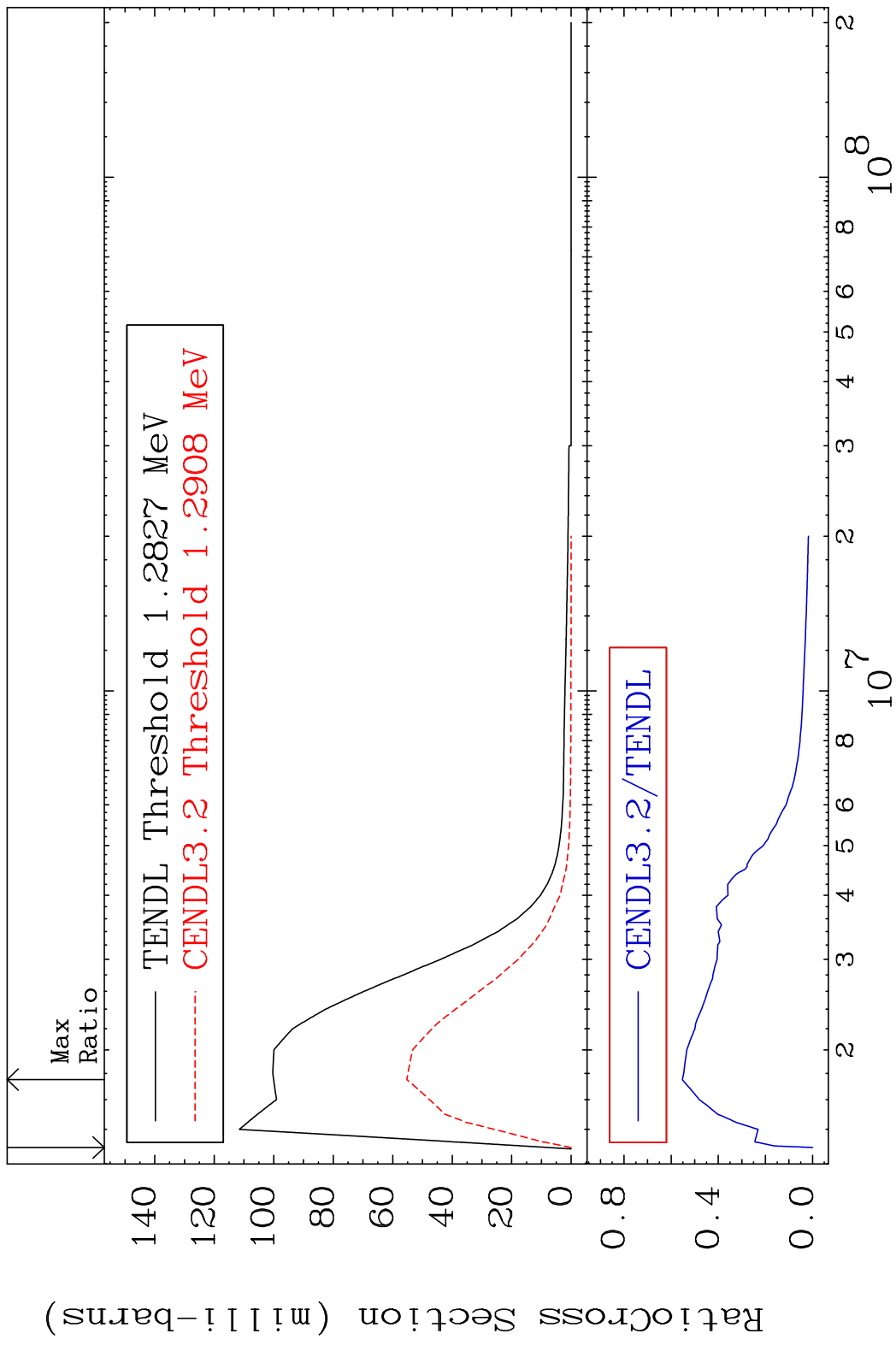
MAT 6425 MT= 57 (n, n') Level 64-Gd-152
 Cross Section -100.0 To 280.2 %



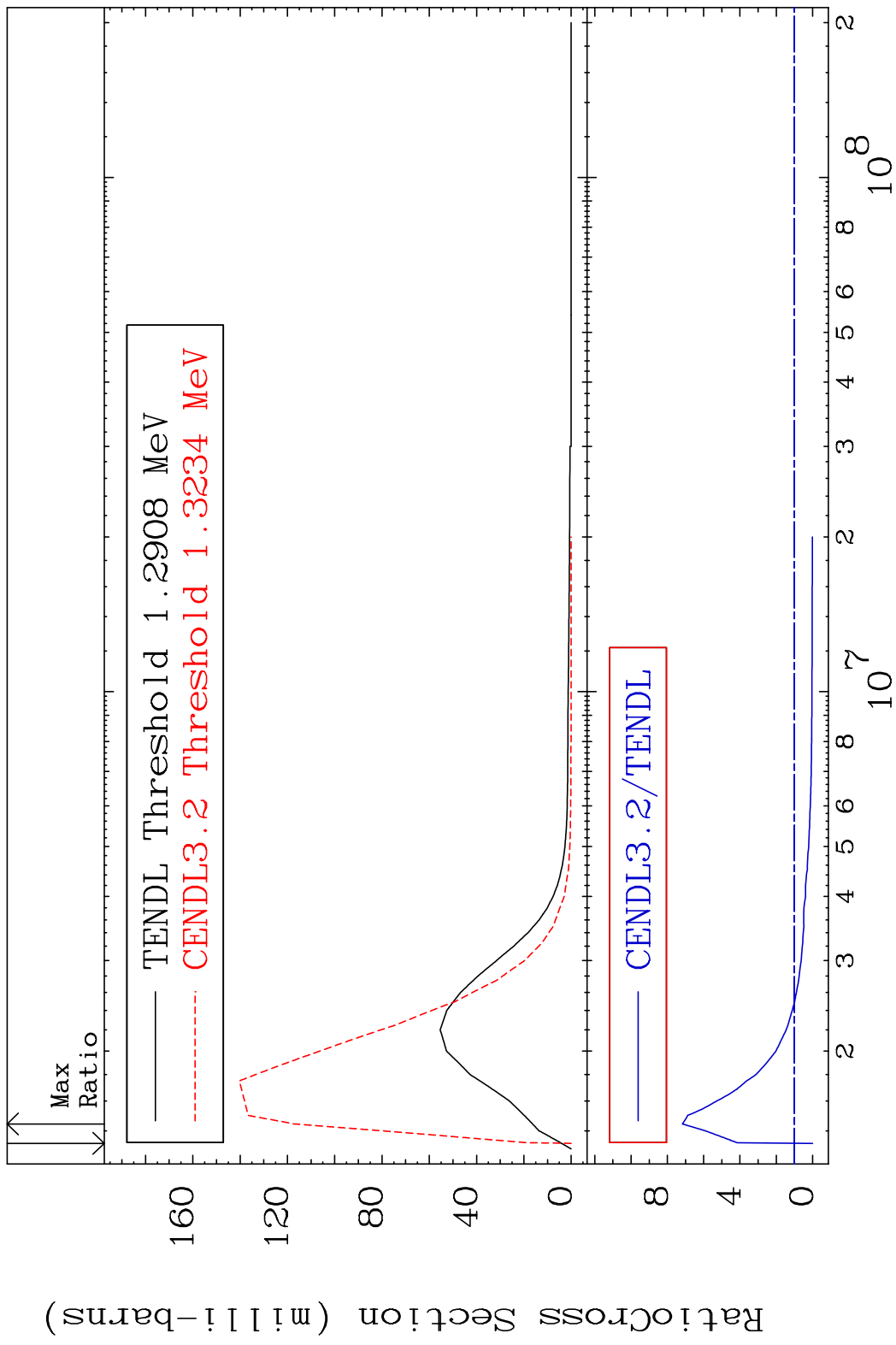
MAT 6425 MT= 58 (n, n') Level 64-Gd-152
 Cross Section -94.90 To 45.10 %



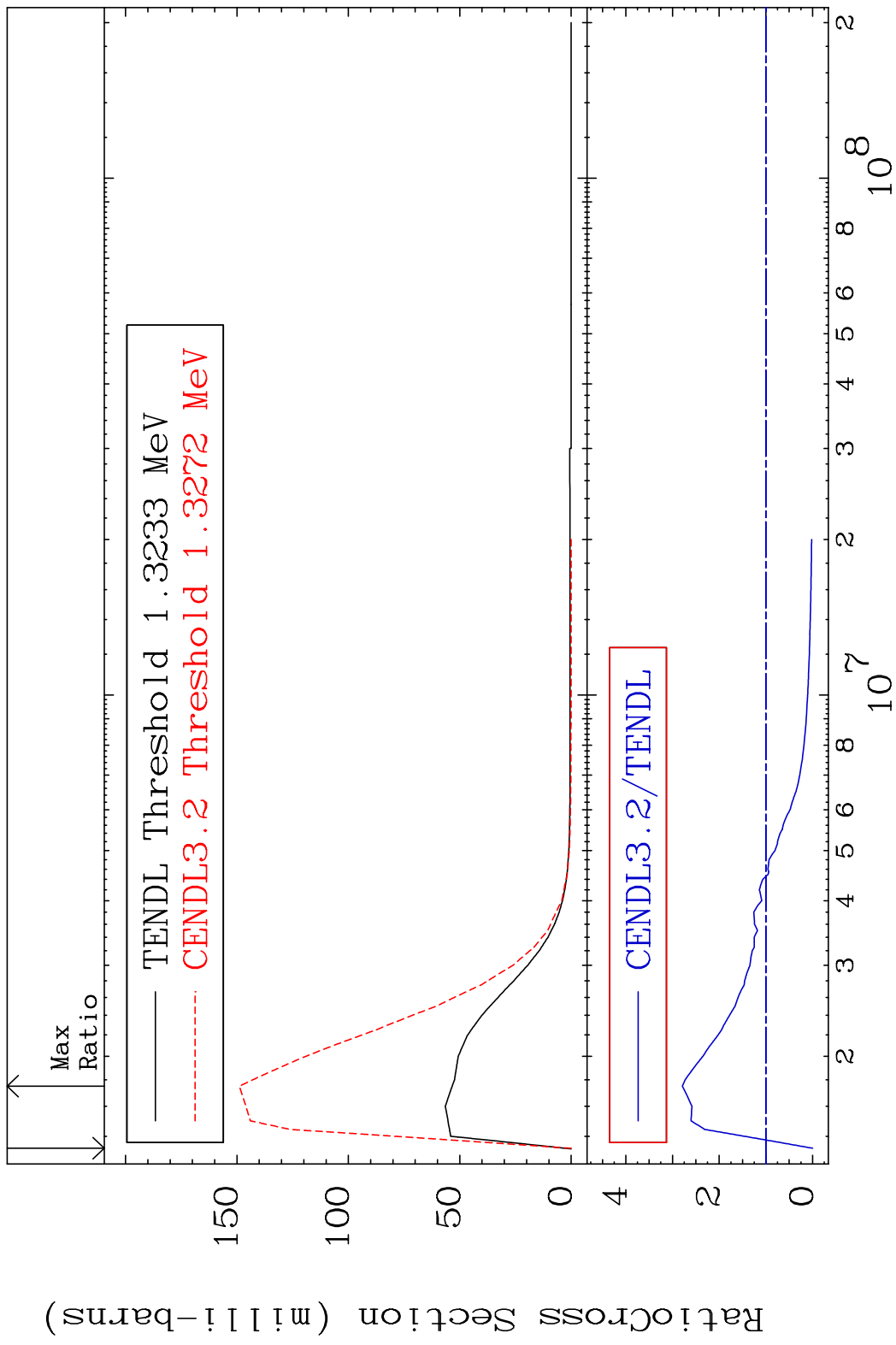
MAT 6425 MT= 59 (n,n') Level 64-Gd-152
 Cross Section -100.0 To -44.75%



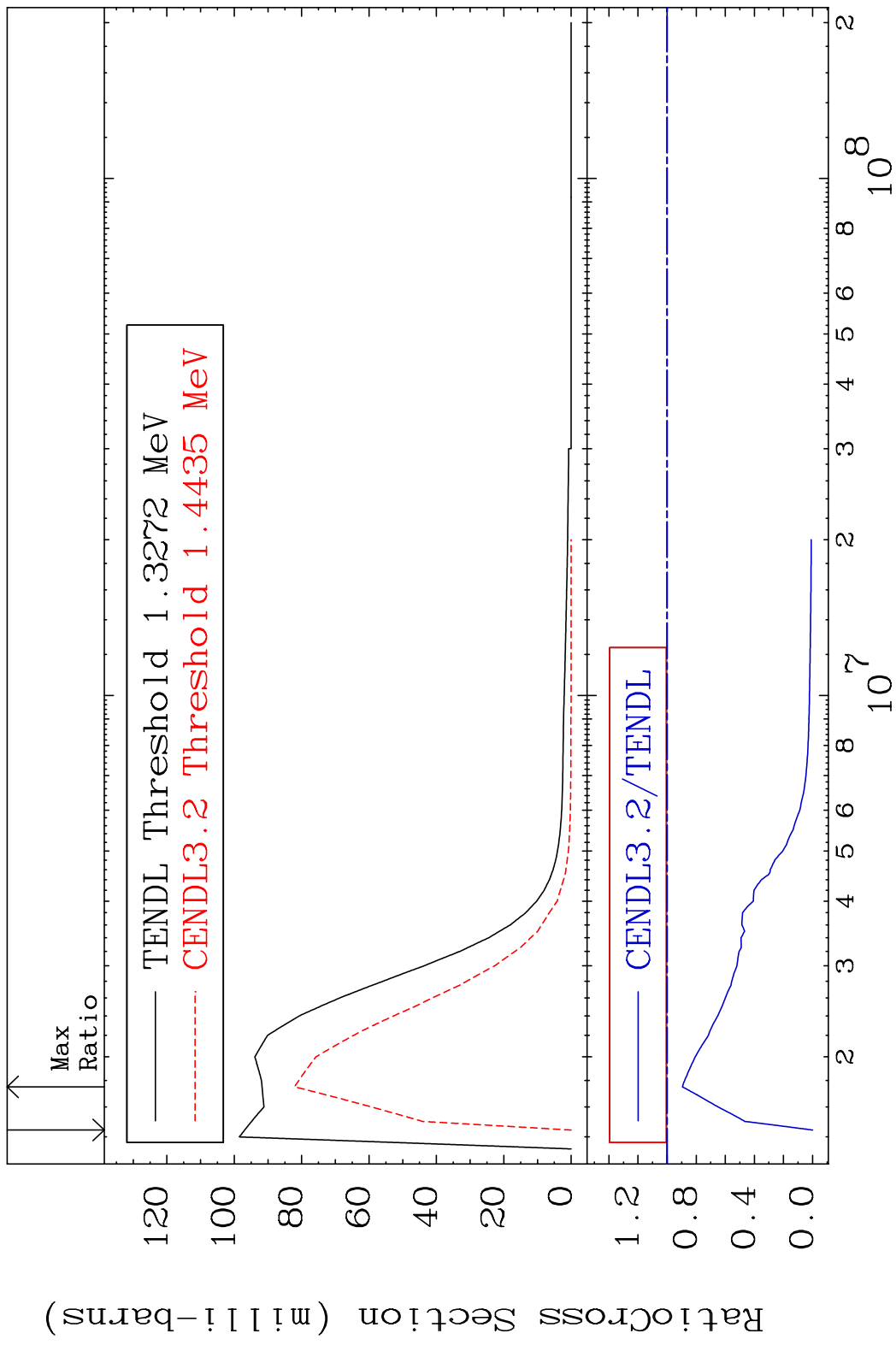
MAT 6425 MT= 60 (n,n') Level 64-Gd-152
 Cross Section -100.0 To 617.4 %



MAT 6425 MT= 61 (n, n') Level 64-Gd-152
 Cross Section -100.0 To 178.9 %



MAT 6425 MT= 62 (n,n') Level 64-Gd-152
 Cross Section -100.0 To -10.48%

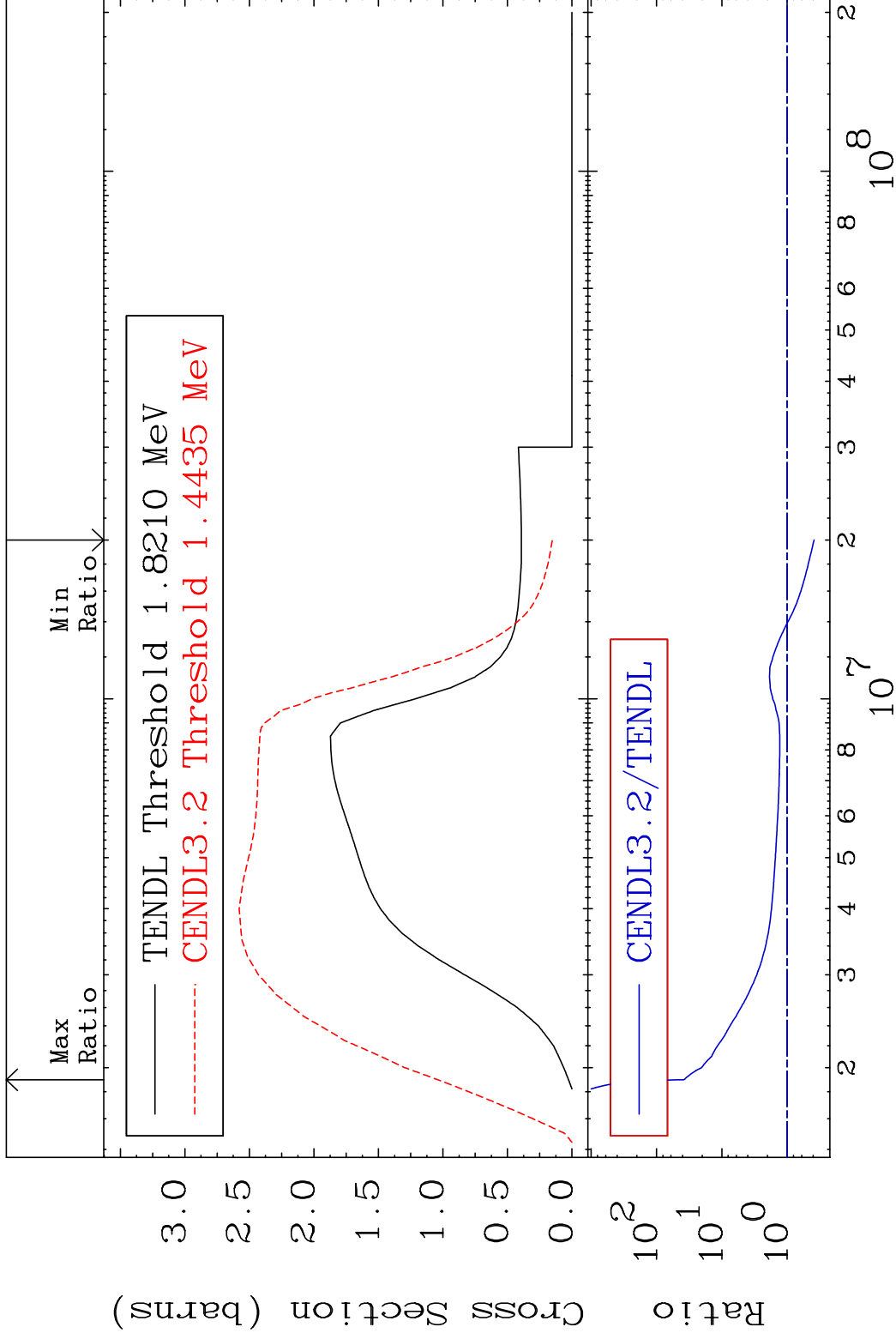


MAT 6425

(n, n') Continuum

64-Gd-152

Cross Section -61.24 To 3769. %



20

Incident Energy (eV)

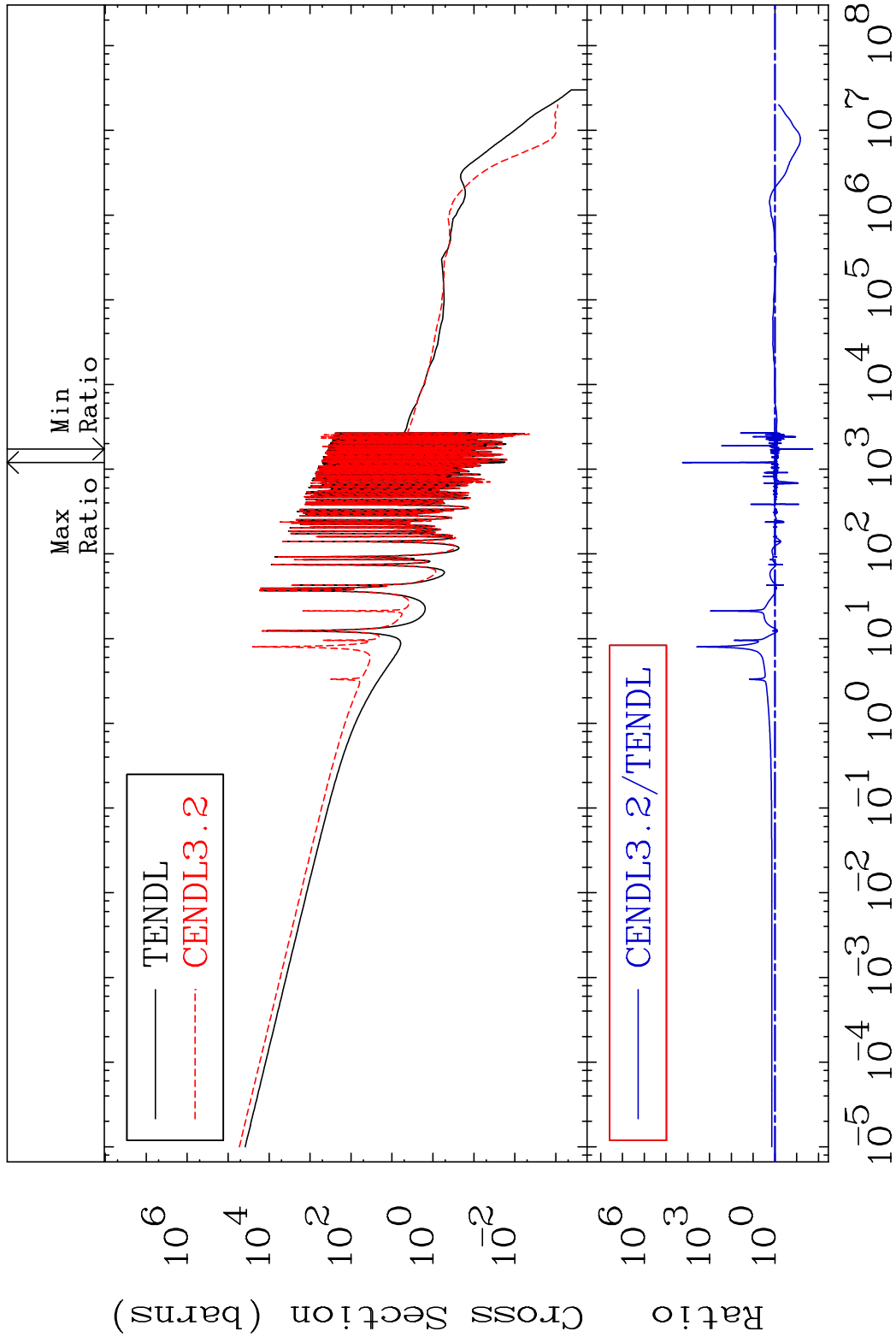
64-Gd-152

MAT 6425

(n, γ)

64-Gd-152

Cross Section -98.13 To 9999. %



21

Incident Energy (eV)

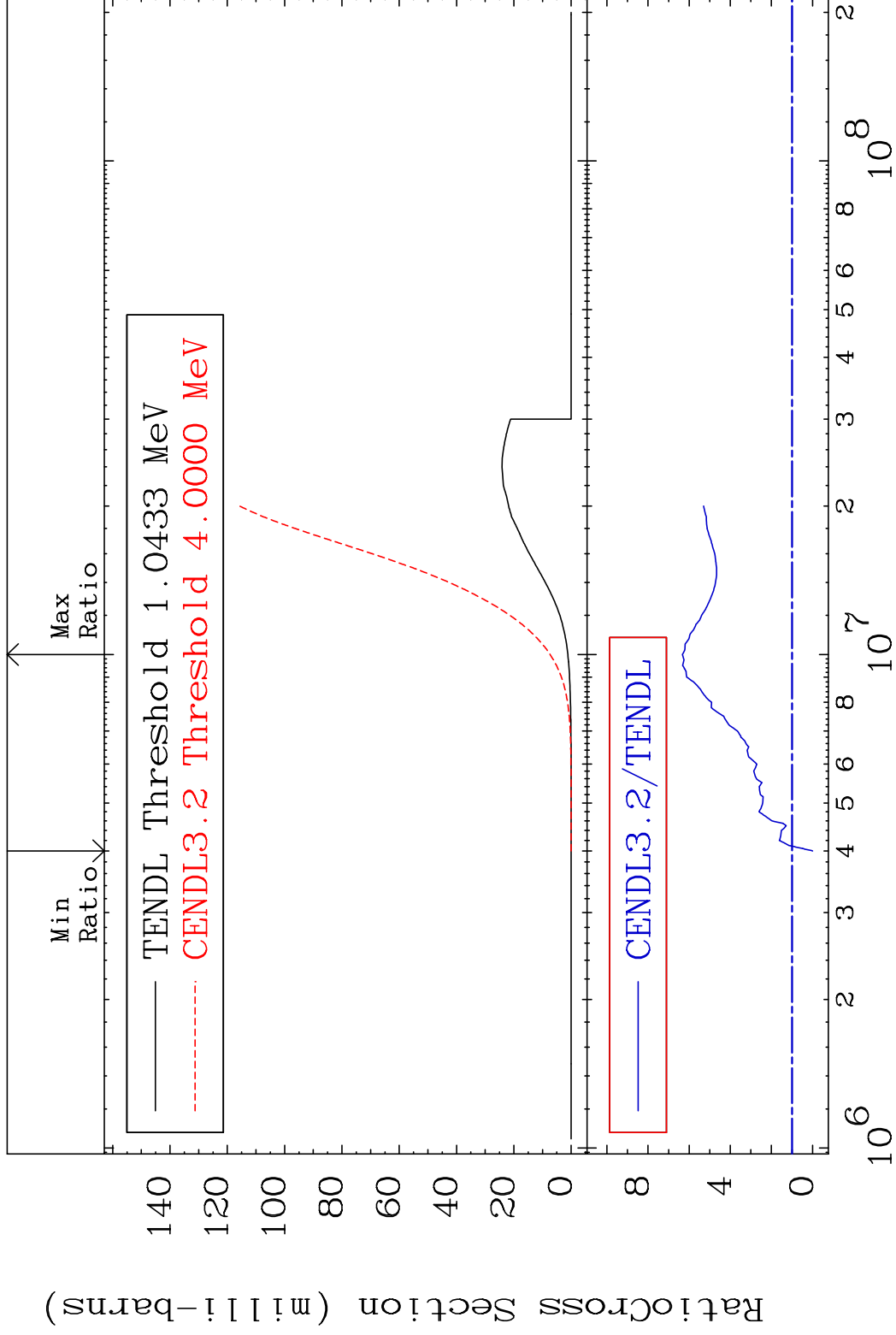
64-Gd-152

MAT 6425

(n,p)

64-Gd-152

Cross Section -100.0 To 533.2 %

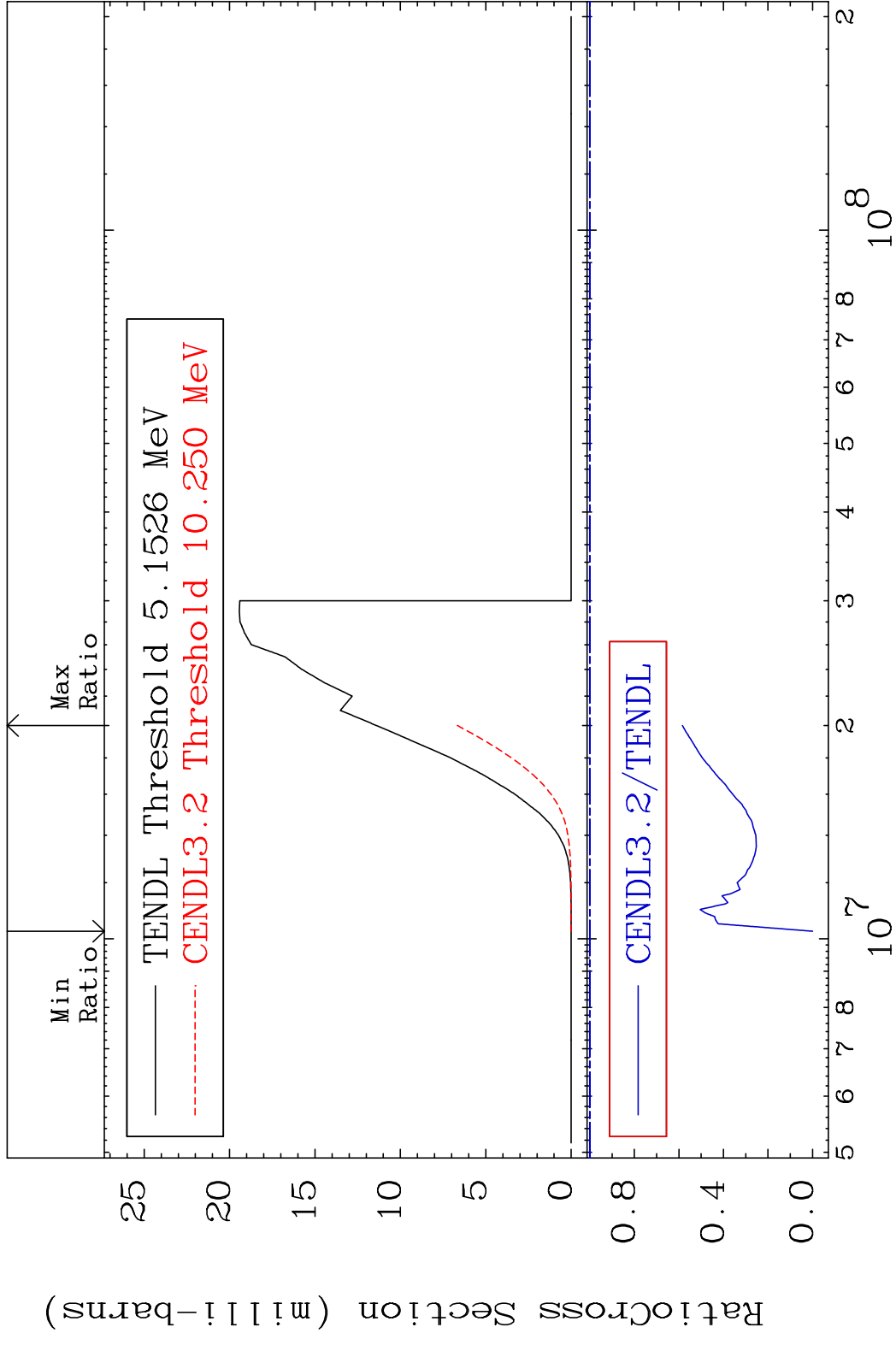


22

Incident Energy (eV)

64-Gd-152

MAT 6425 (n,d) 64-Gd-152
 Cross Section -100.0 To -41.55%

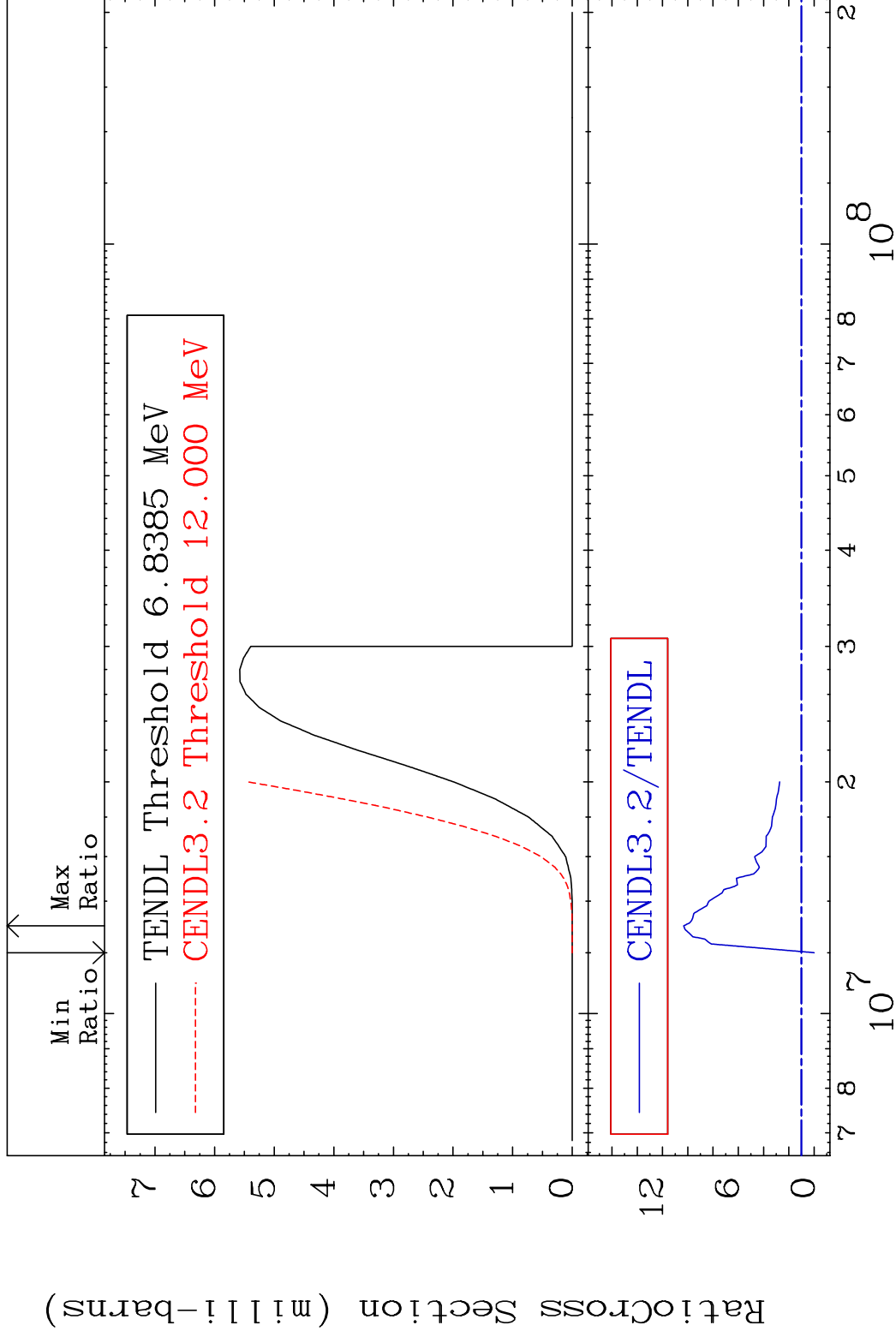


MAT 6425

(n, t)

64-Gd-152

Cross Section -100.0 To 932.6 %



24

Incident Energy (eV)

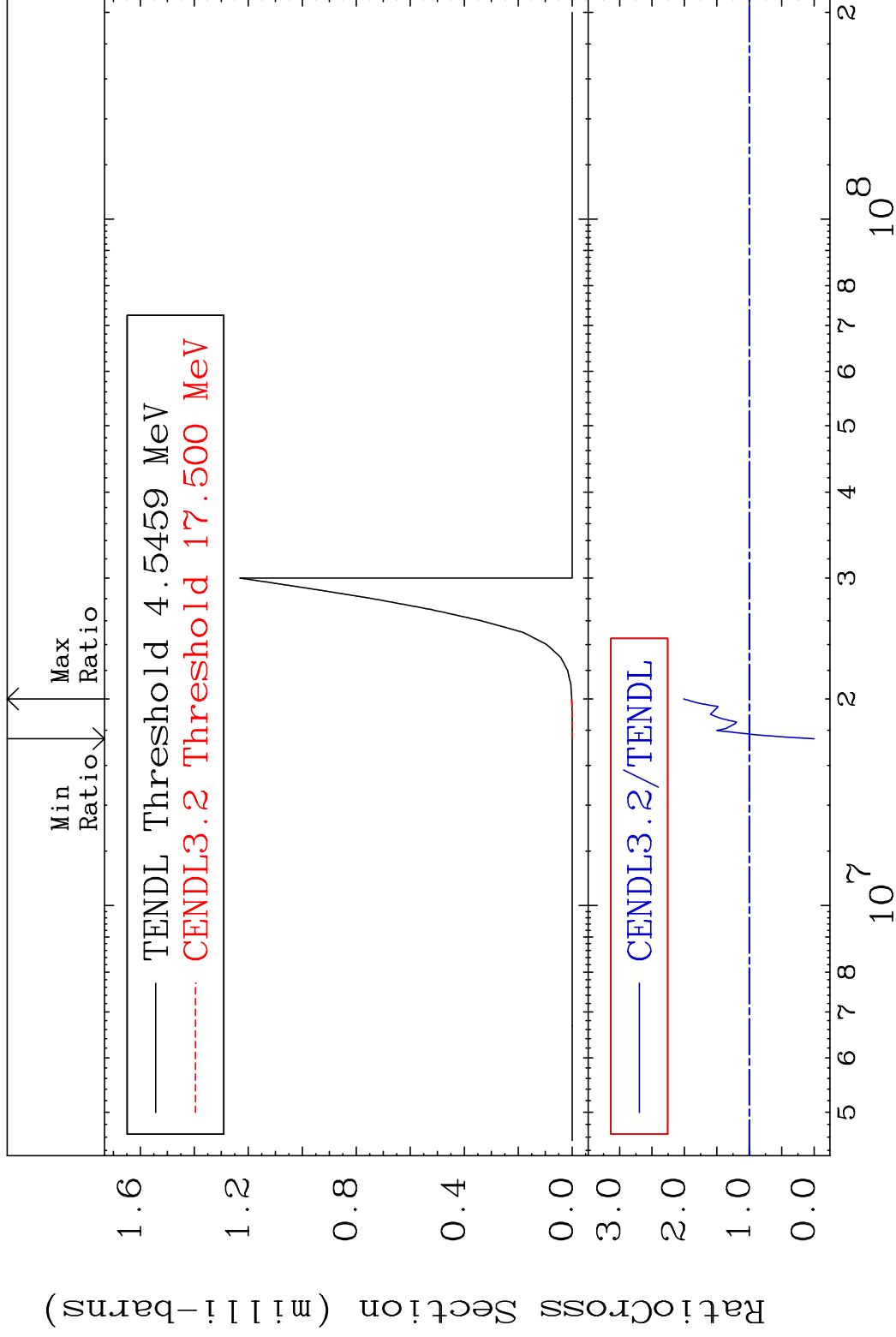
64-Gd-152

MAT 6425

(n, He-3)

64-Gd-152

Cross Section -100.0 To 101.2 %



25

Incident Energy (eV)

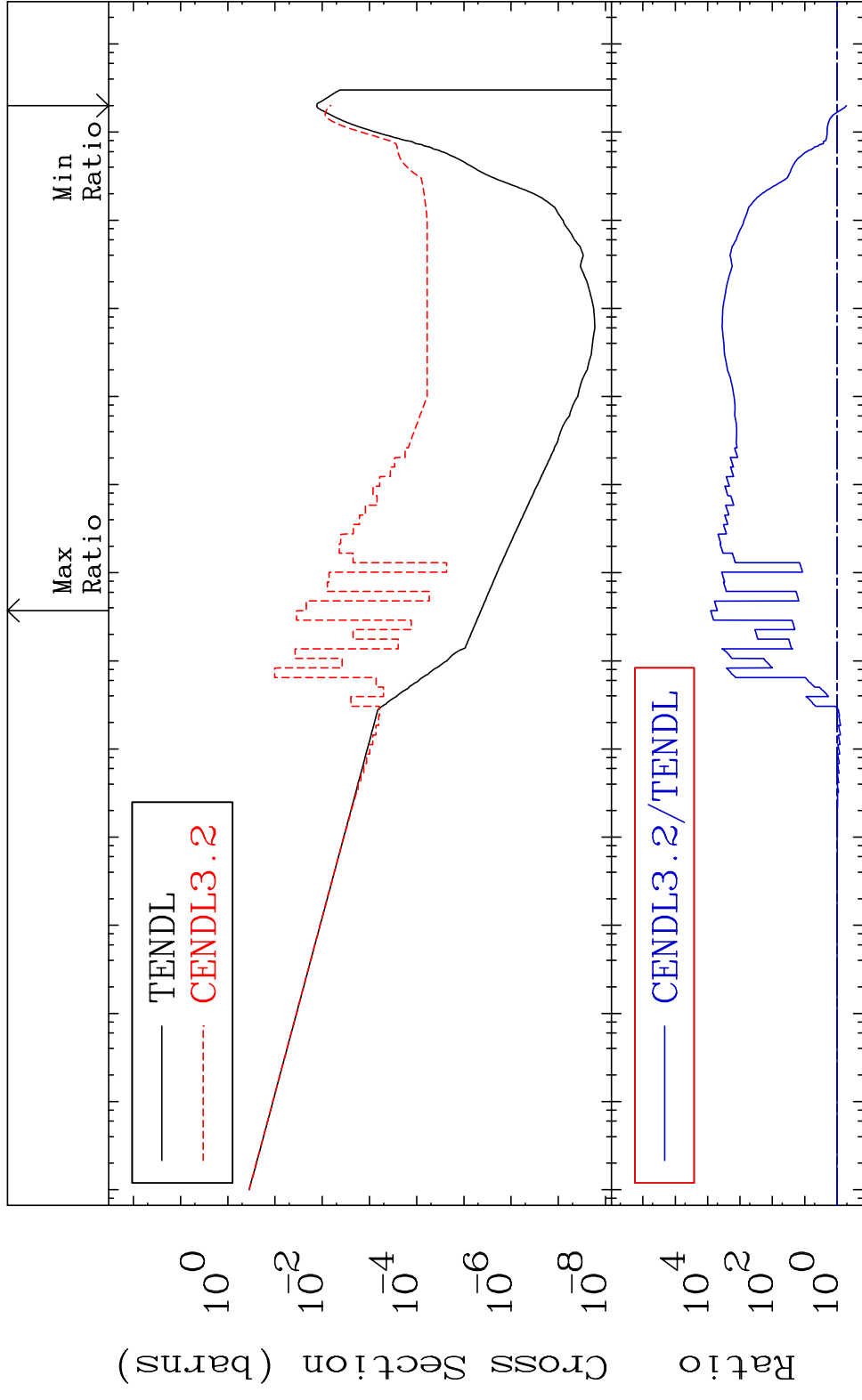
64-Gd-152

MAT 6425

64-Gd-152

(n, α)

Cross Section -47.94 To 9999. %

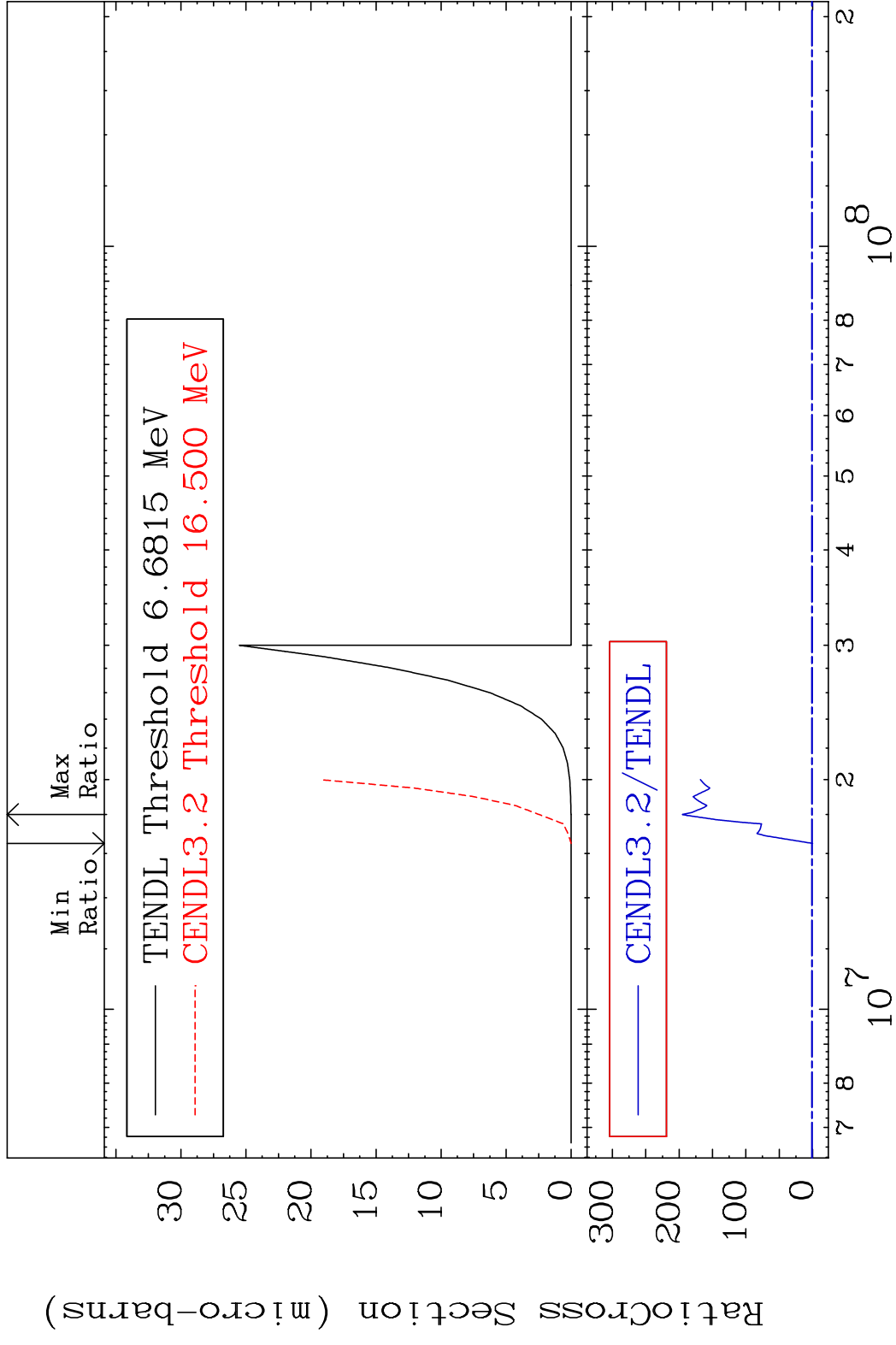


MAT 6425

(n,2p)

64-Gd-152

Cross Section -100.0 To 9999. %

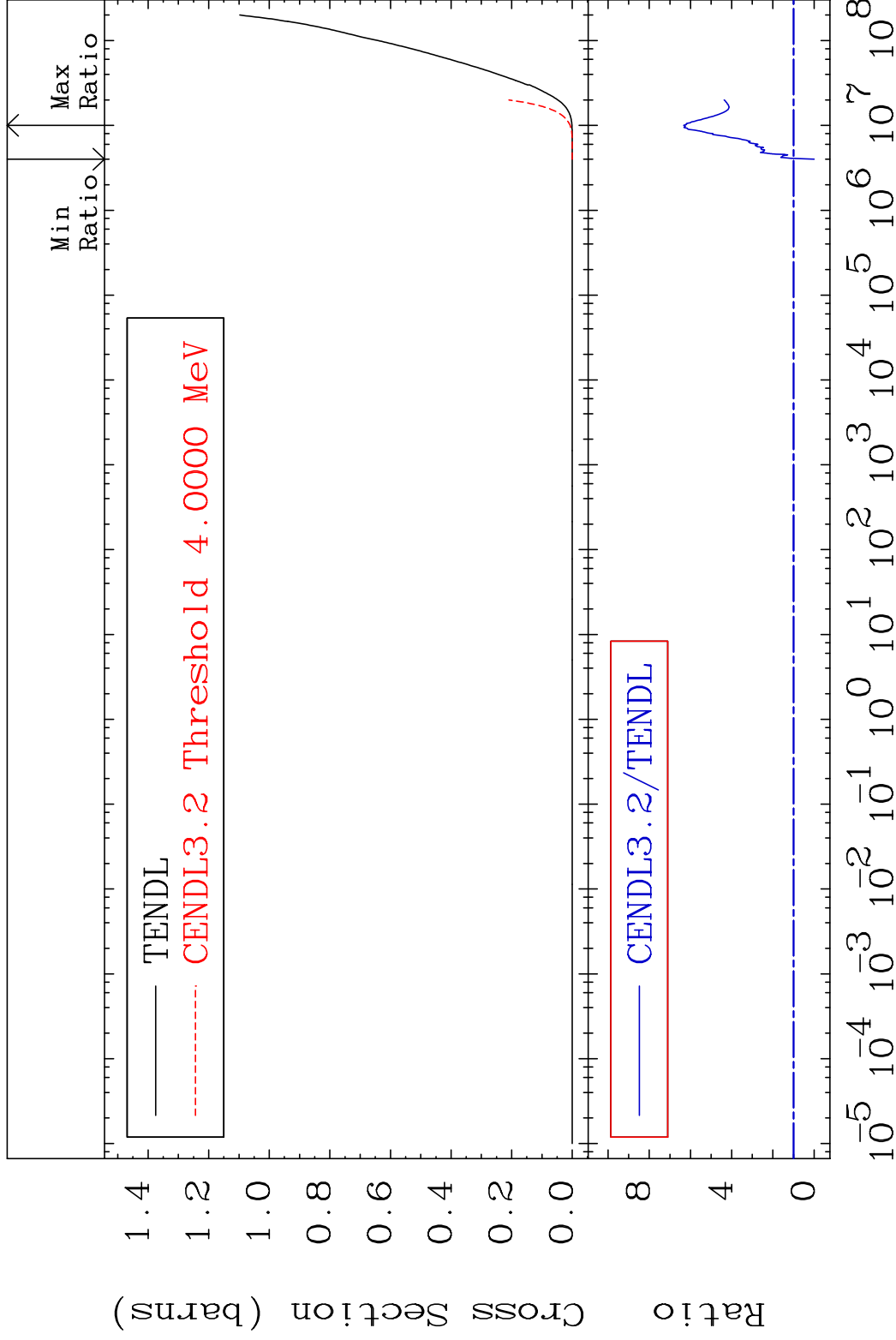


MAT 6425

Hydrogen Production

64-Gd-152

Cross Section -100.0 To 533.2 %



28

Incident Energy (eV)

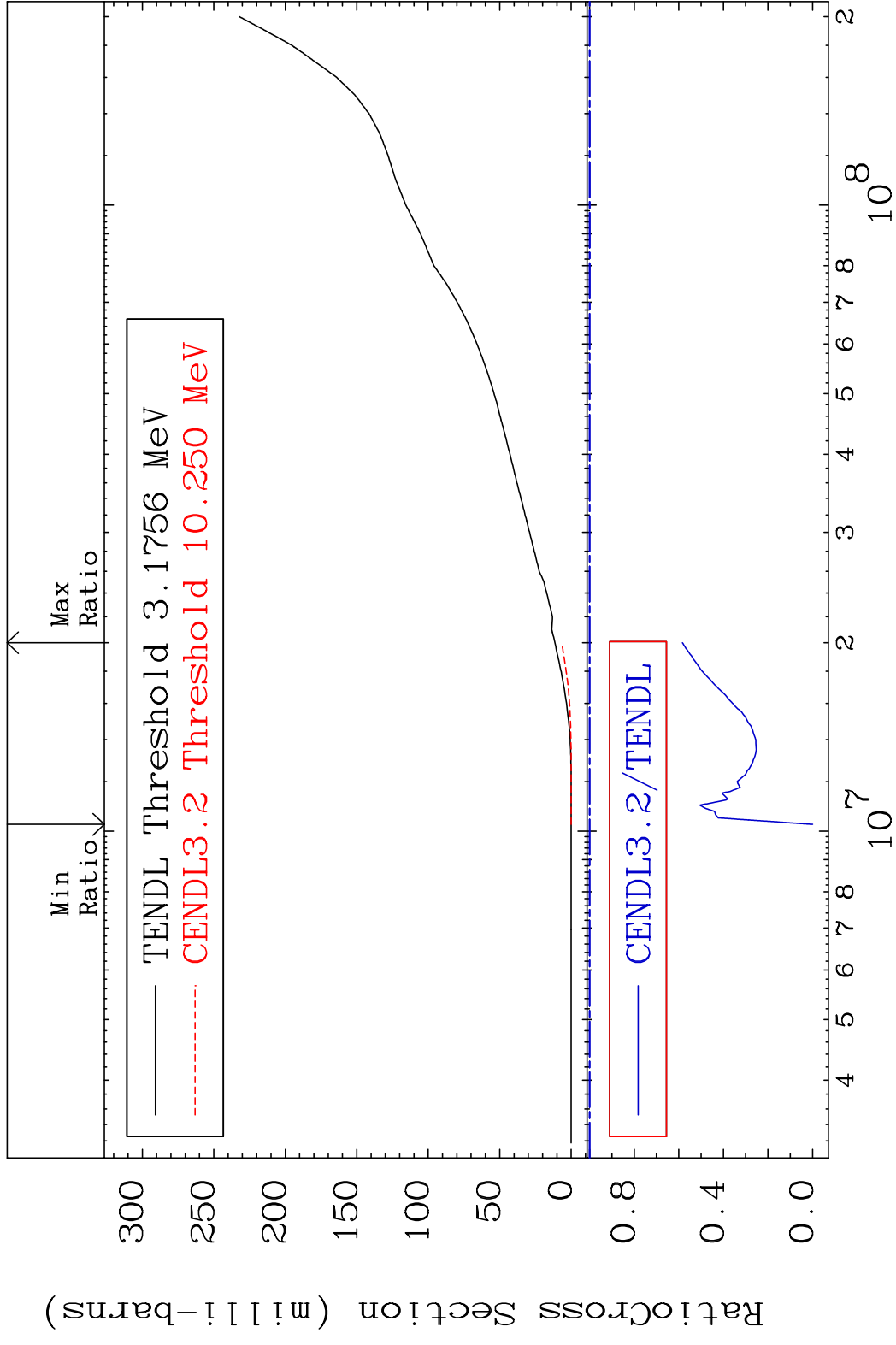
64-Gd-152

MAT 6425

Deuterium Production

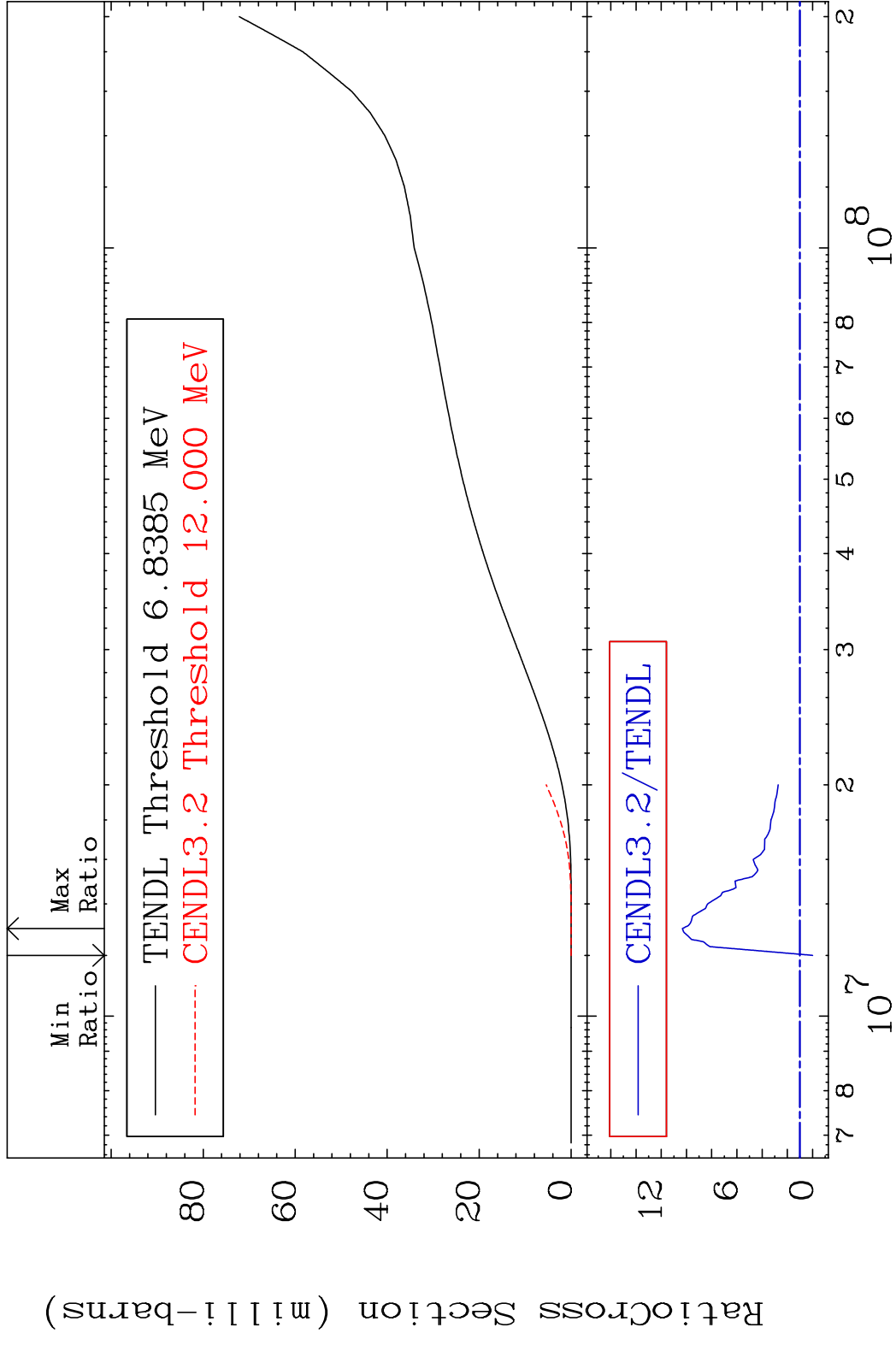
64-Gd-152

Cross Section -100.0 To -41.61%



MAT 6425

Tritium Production 64-Gd-152
Cross Section -100.0 To 932.6 %

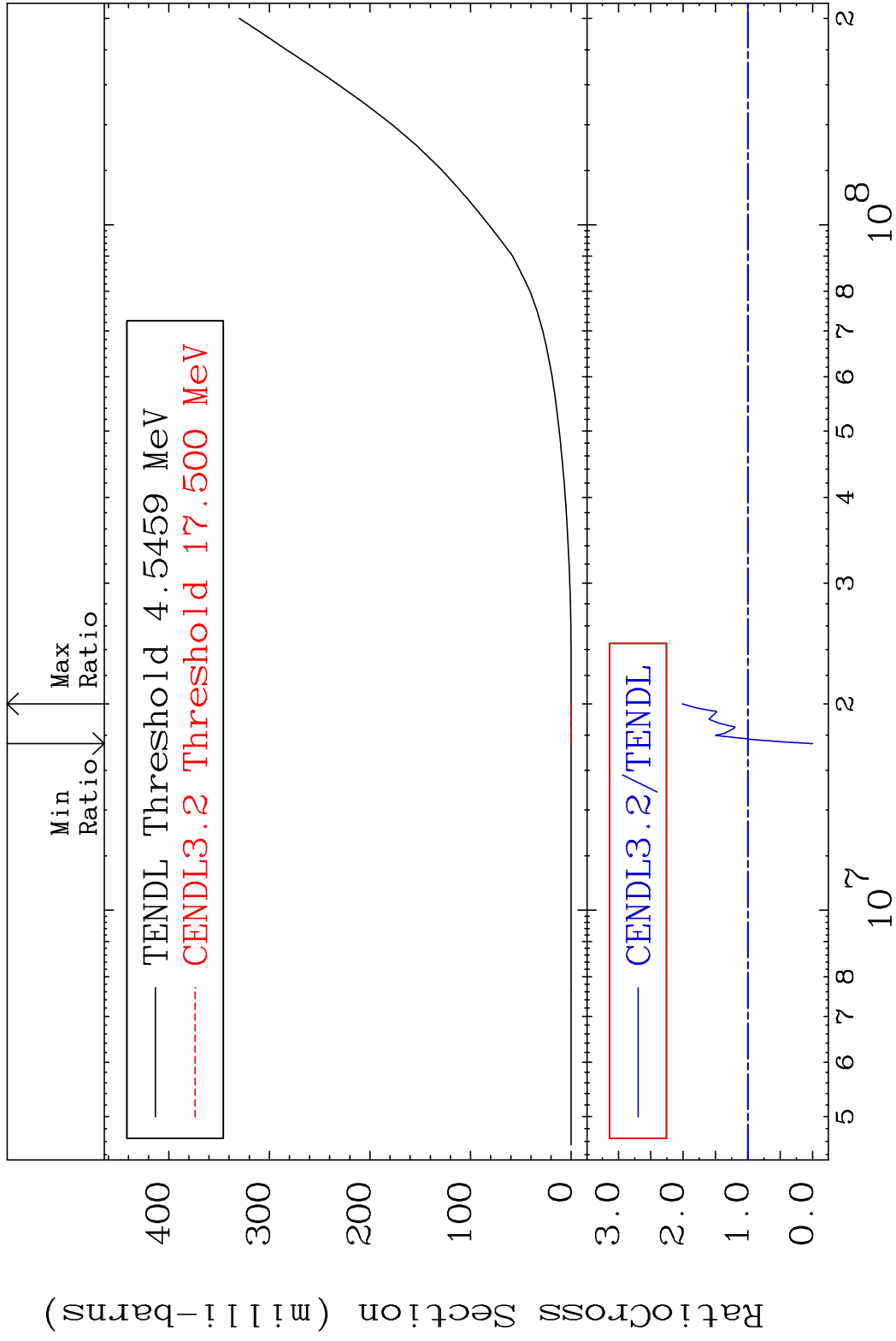


30

Incident Energy (eV)

64-Gd-152

Cross Section -100.0 To 101.2 %

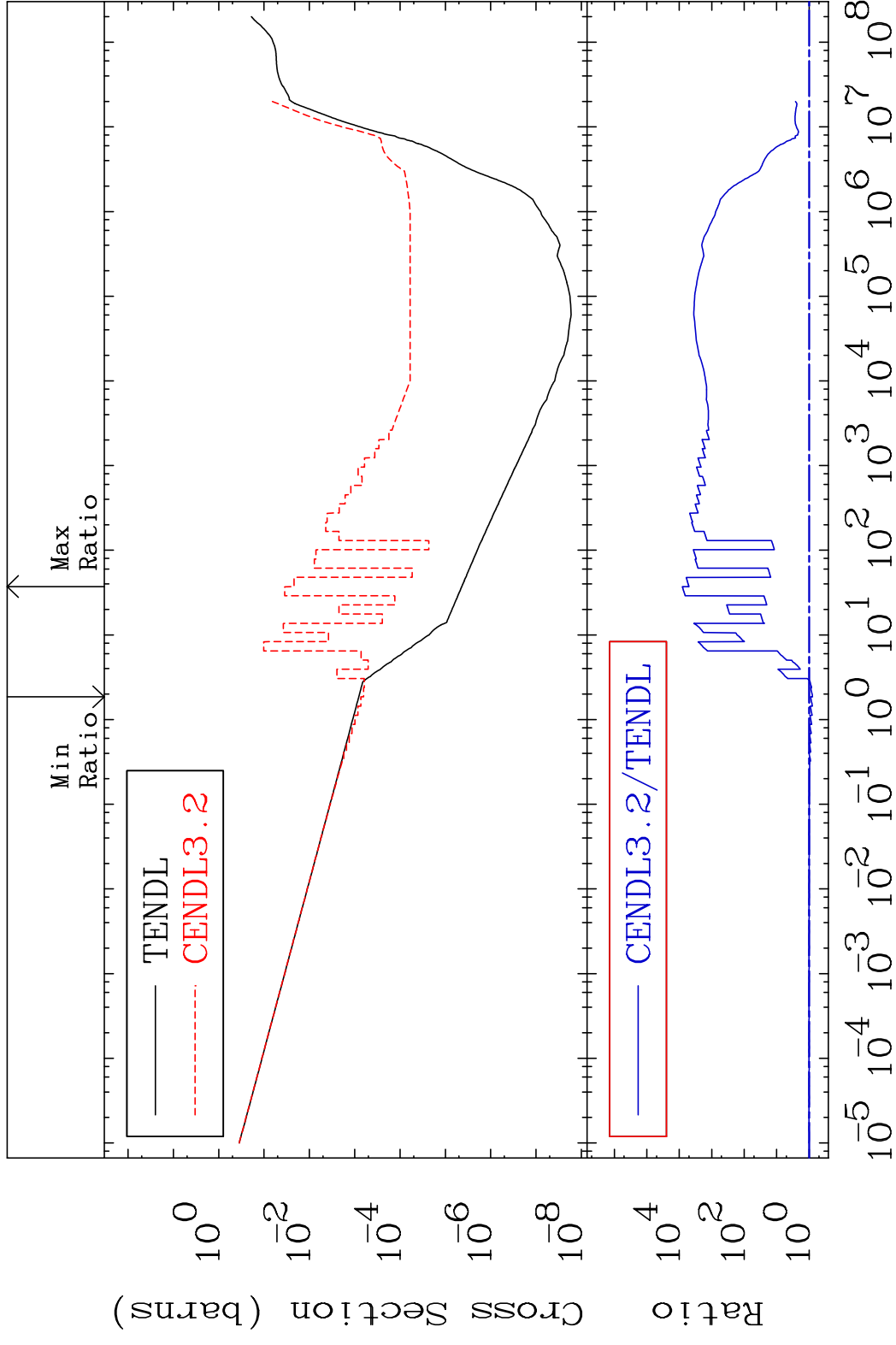


MAT 6425

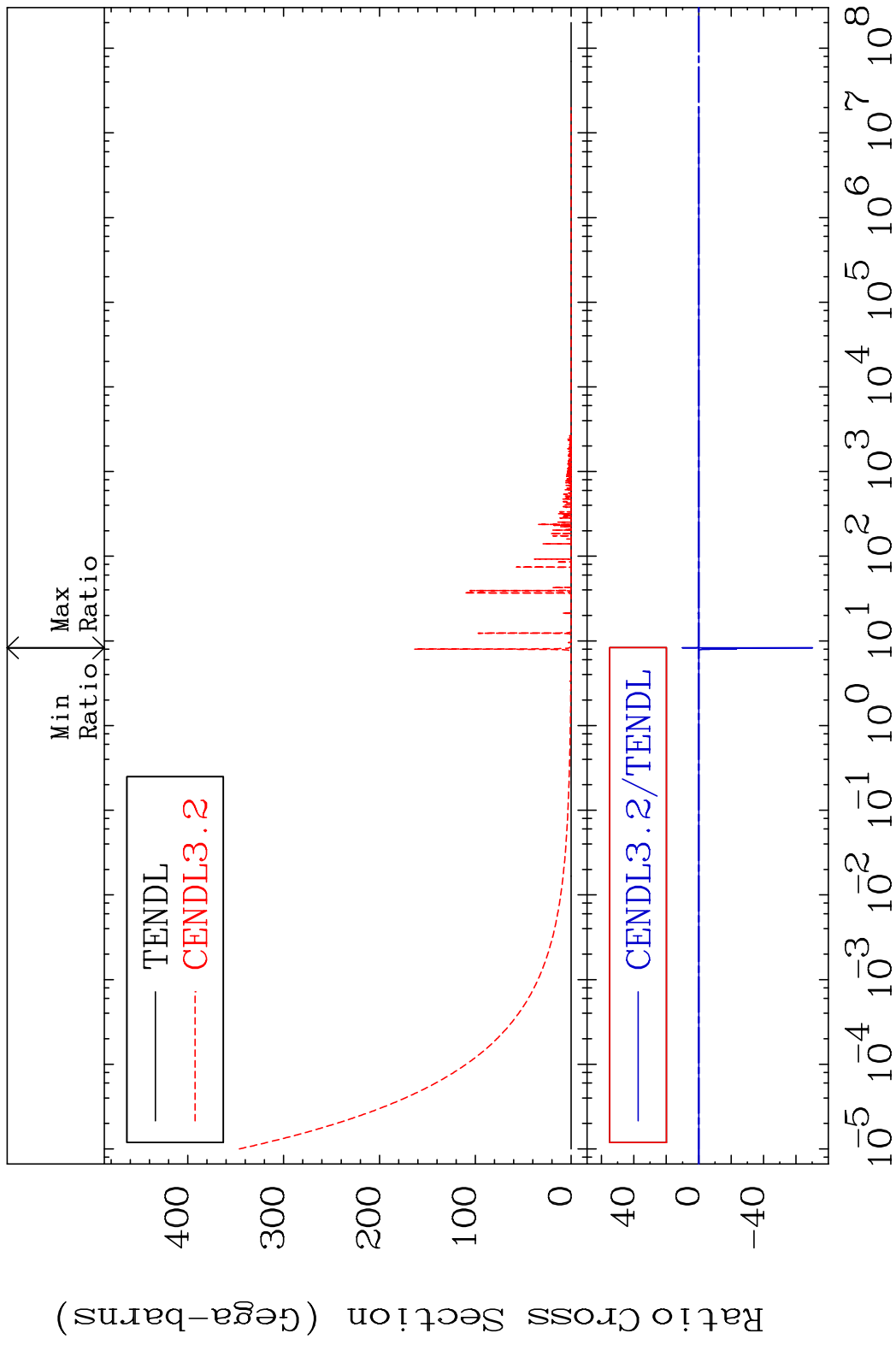
He-4 Production

64-Gd-152

Cross Section -21.62 To 9999. %



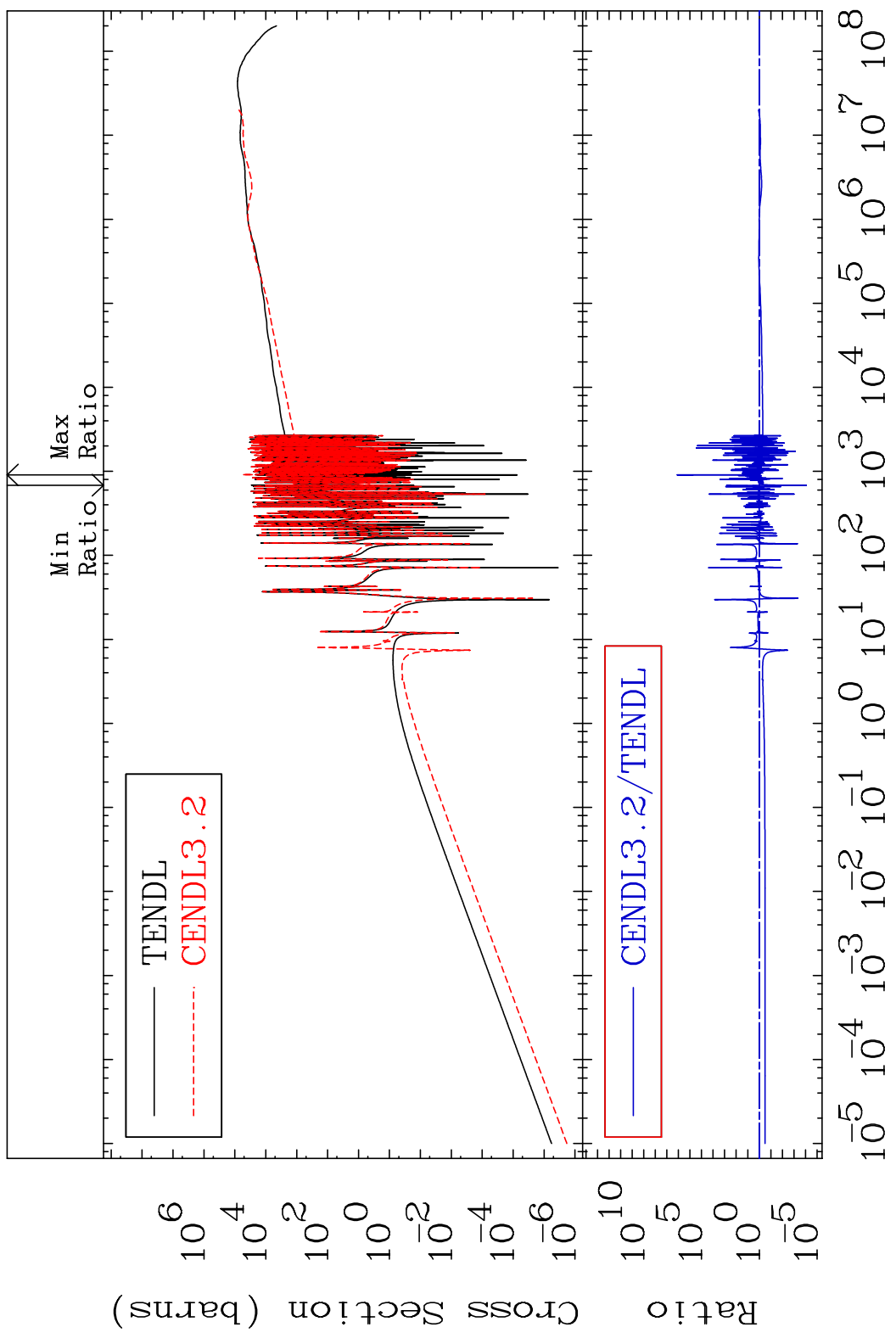
MAT 6425 Kerma total (eV-barns) 64-Gd-152
 Cross Section -9999. To 9999. %



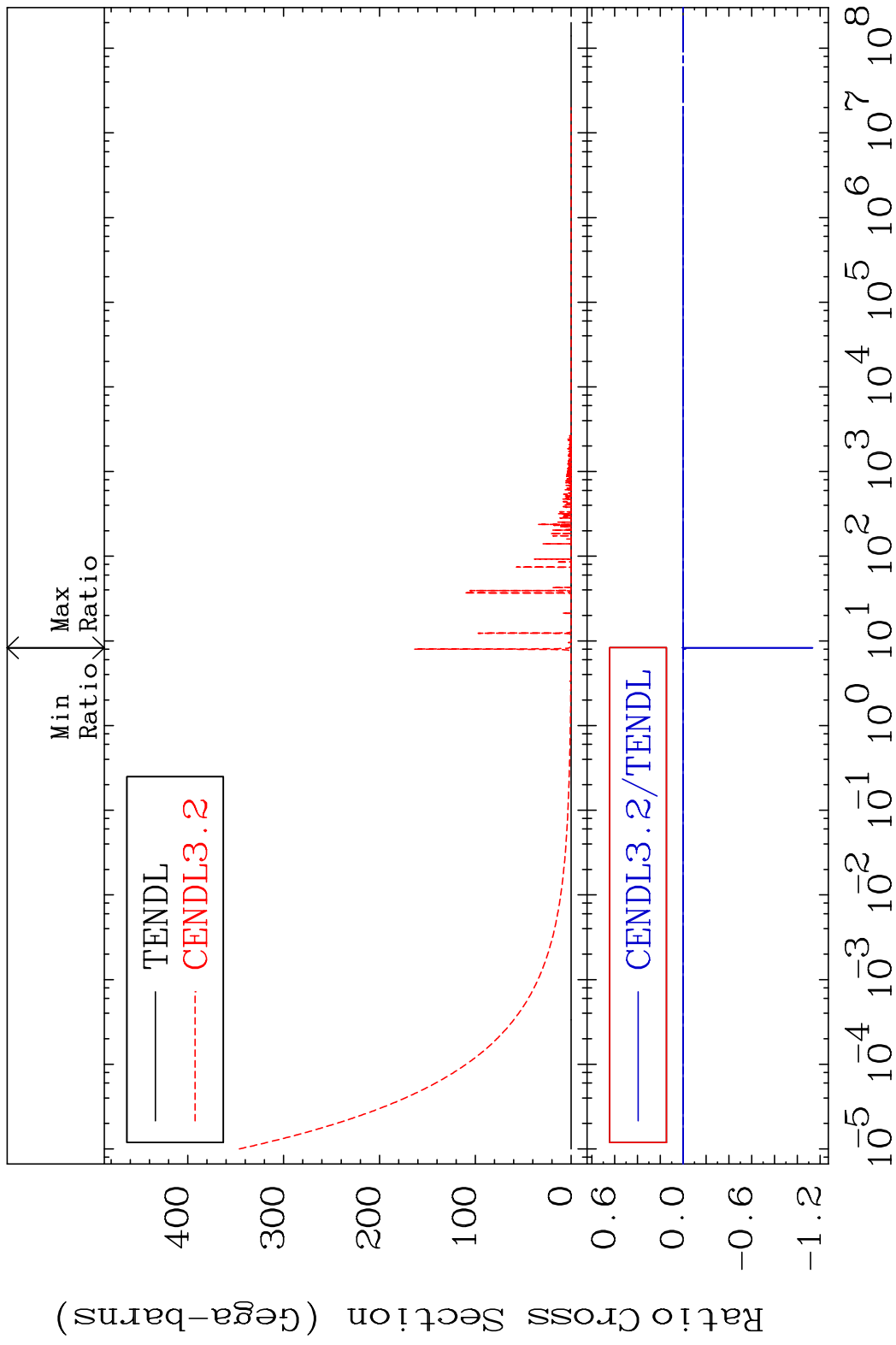
33 Incident Energy (eV) 64-Gd-152

MAT 6425

Kerma elastic Cross Section -99.99 To 9999. %
64-Gd-152

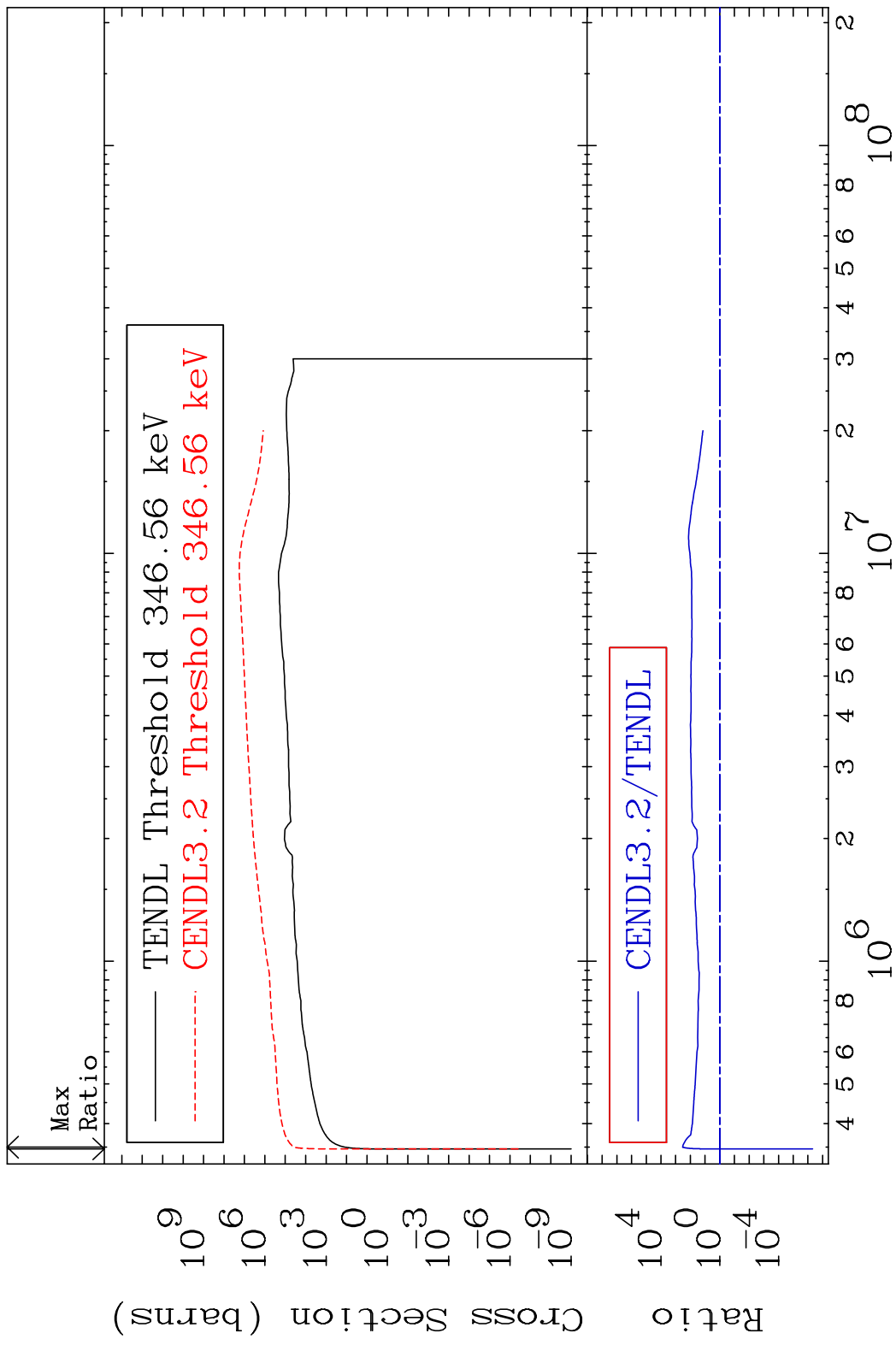


MAT 6425 Kerma non-elastic (all but mt2) 64-Gd-152
 Cross Section -9999. To 9999. %

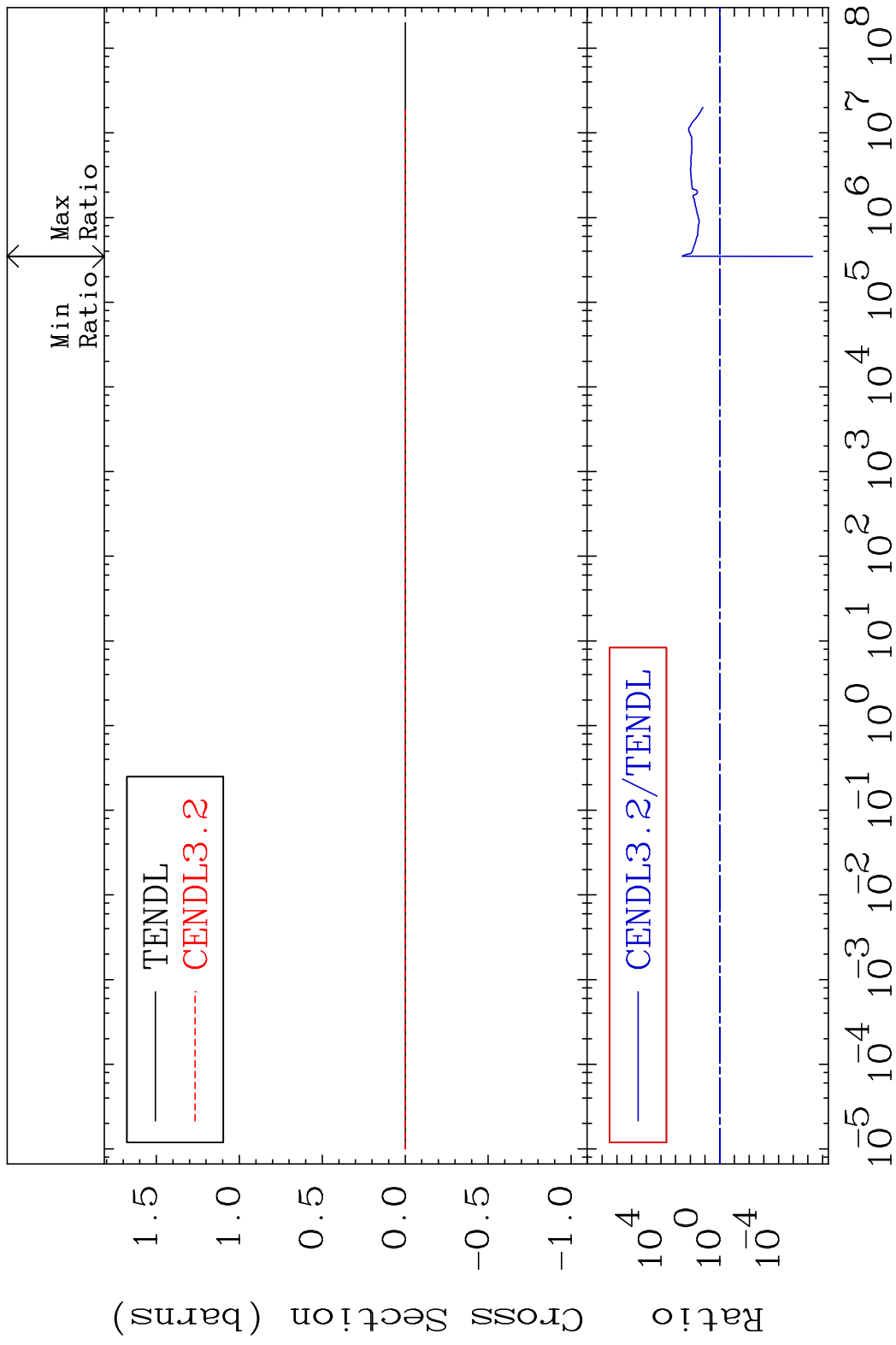


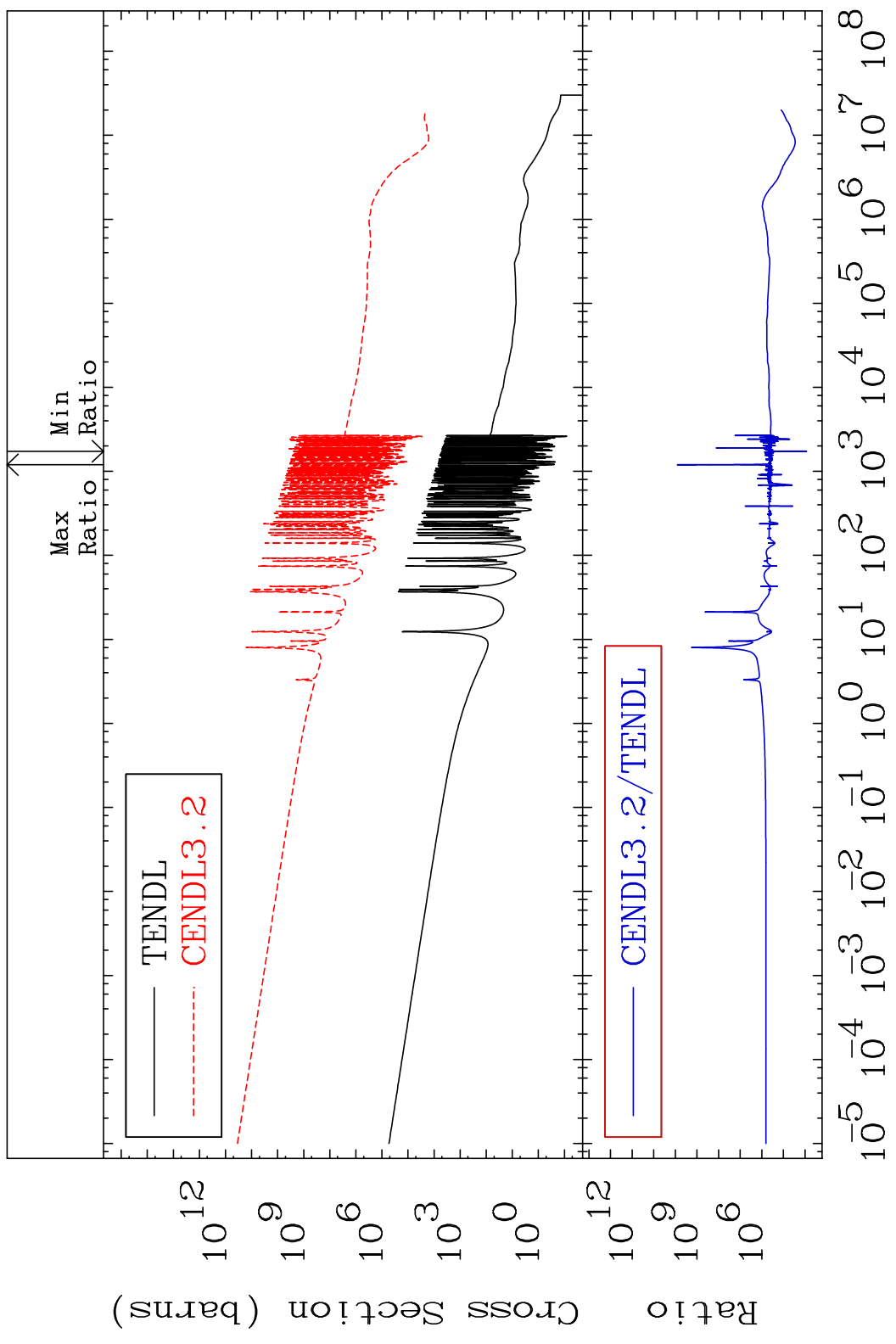
35 Incident Energy (eV) 64-Gd-152

MAT 6425 Kerma inelastic (mt51-91) 64-Gd-152
 Cross Section -100.0 To 9999. %

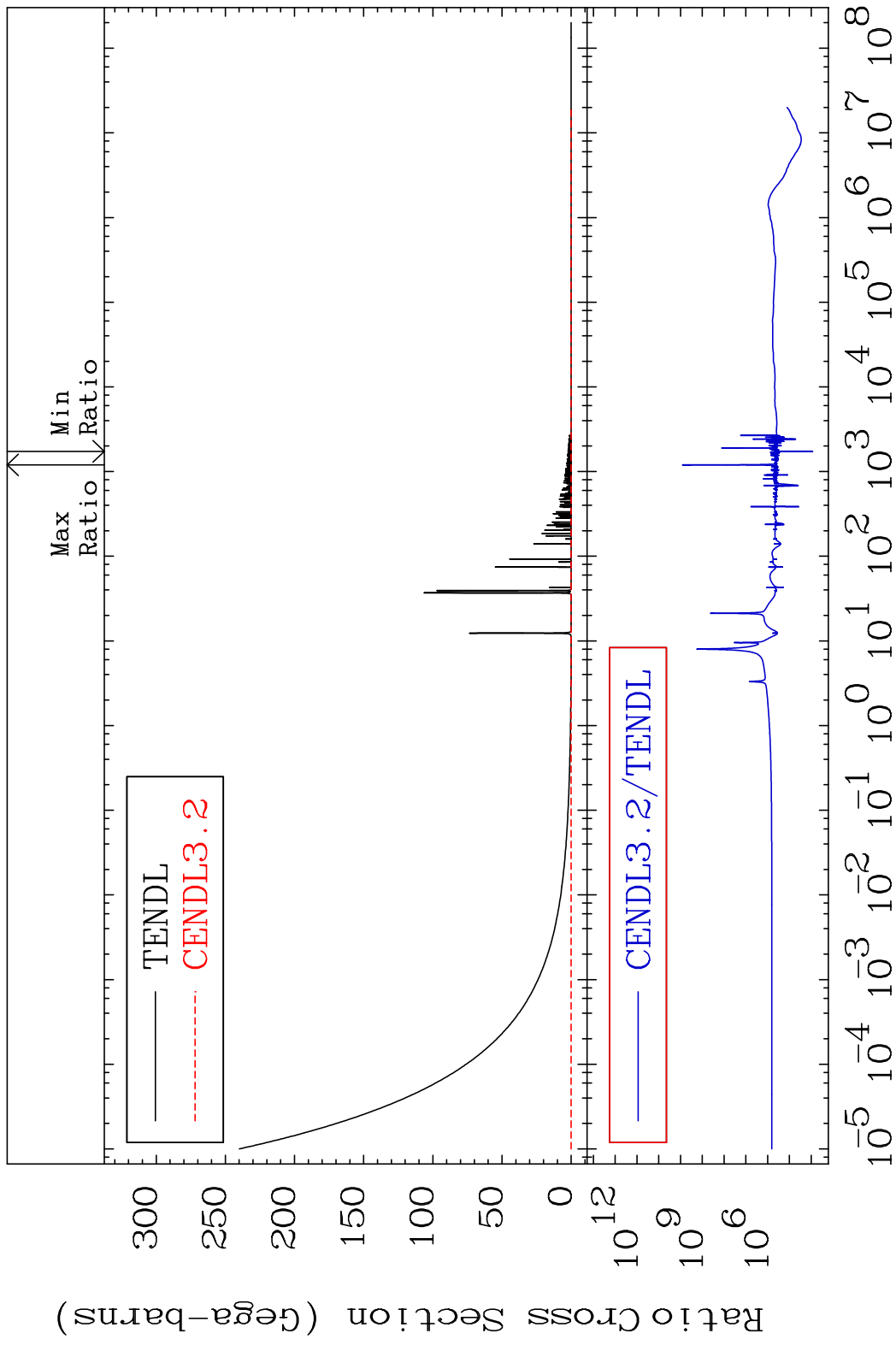


MAT 6425 Kerma fission (mt18 or mt19-20-21-38) 64-Gd-152
 Cross Section -100.0 To 9999. %

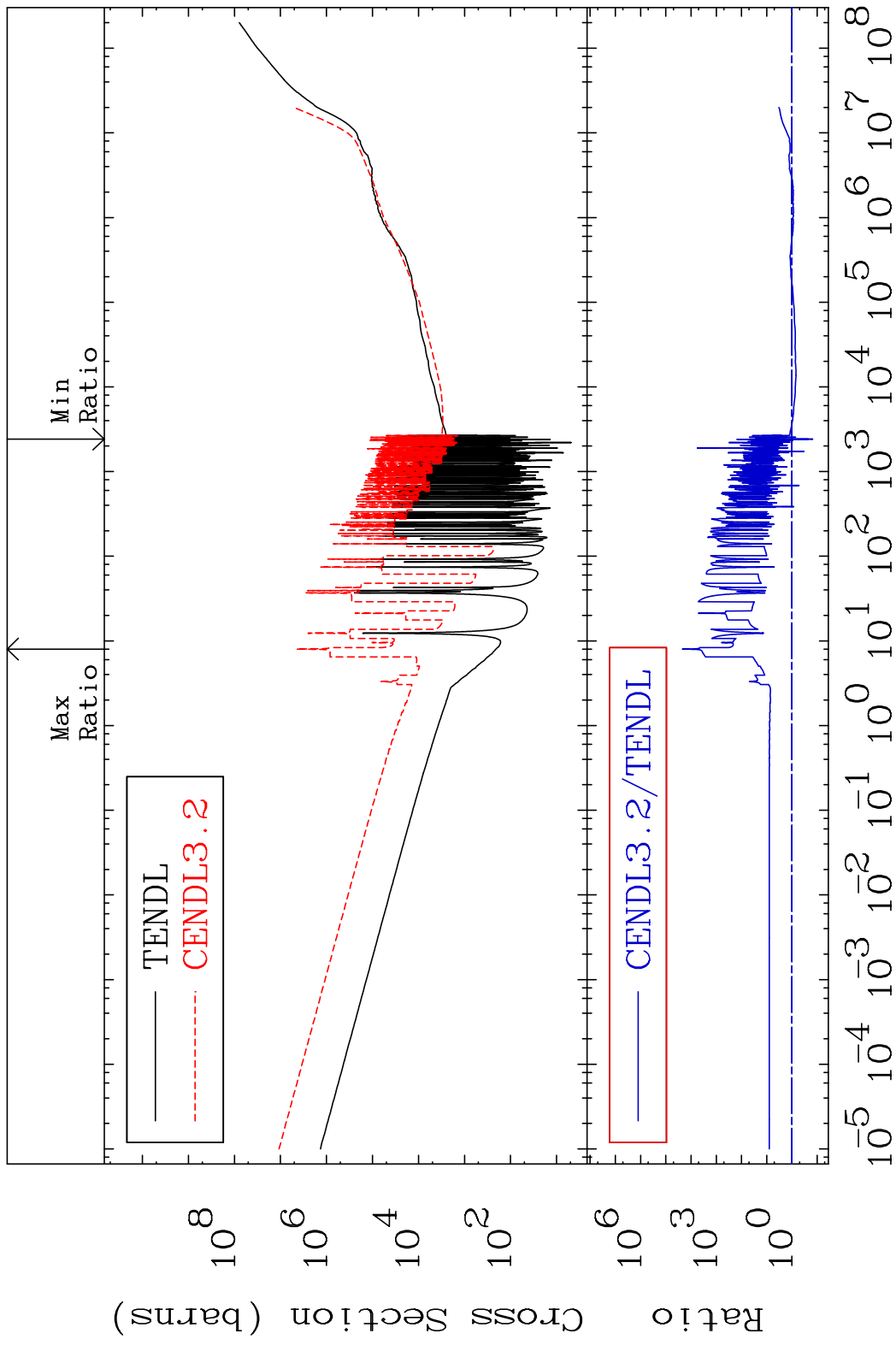




MAT 6425 Total photon (eV-barns) 64-Gd-152
 Cross Section 9999. To 9999. %



MAT 6425 Total kinematic kerma (high limit) 64-Gd-152
Cross Section -84.73 To 9999. %



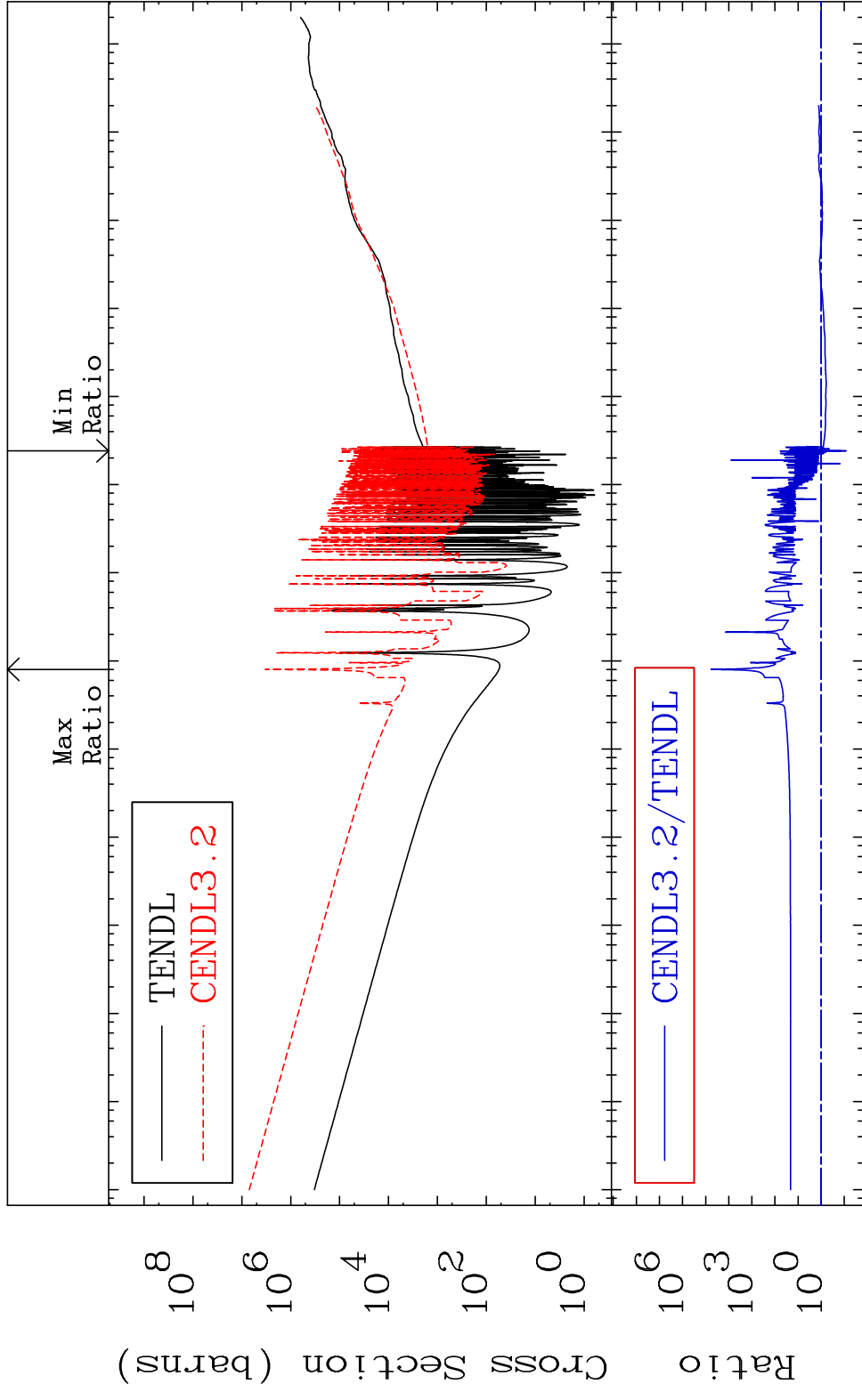
40 Incident Energy (eV) 64-Gd-152

MAT 6425

Dpa total (eV-barns)

64-Gd-152

Cross Section -91.83 To 9999. %



41

Incident Energy (eV)

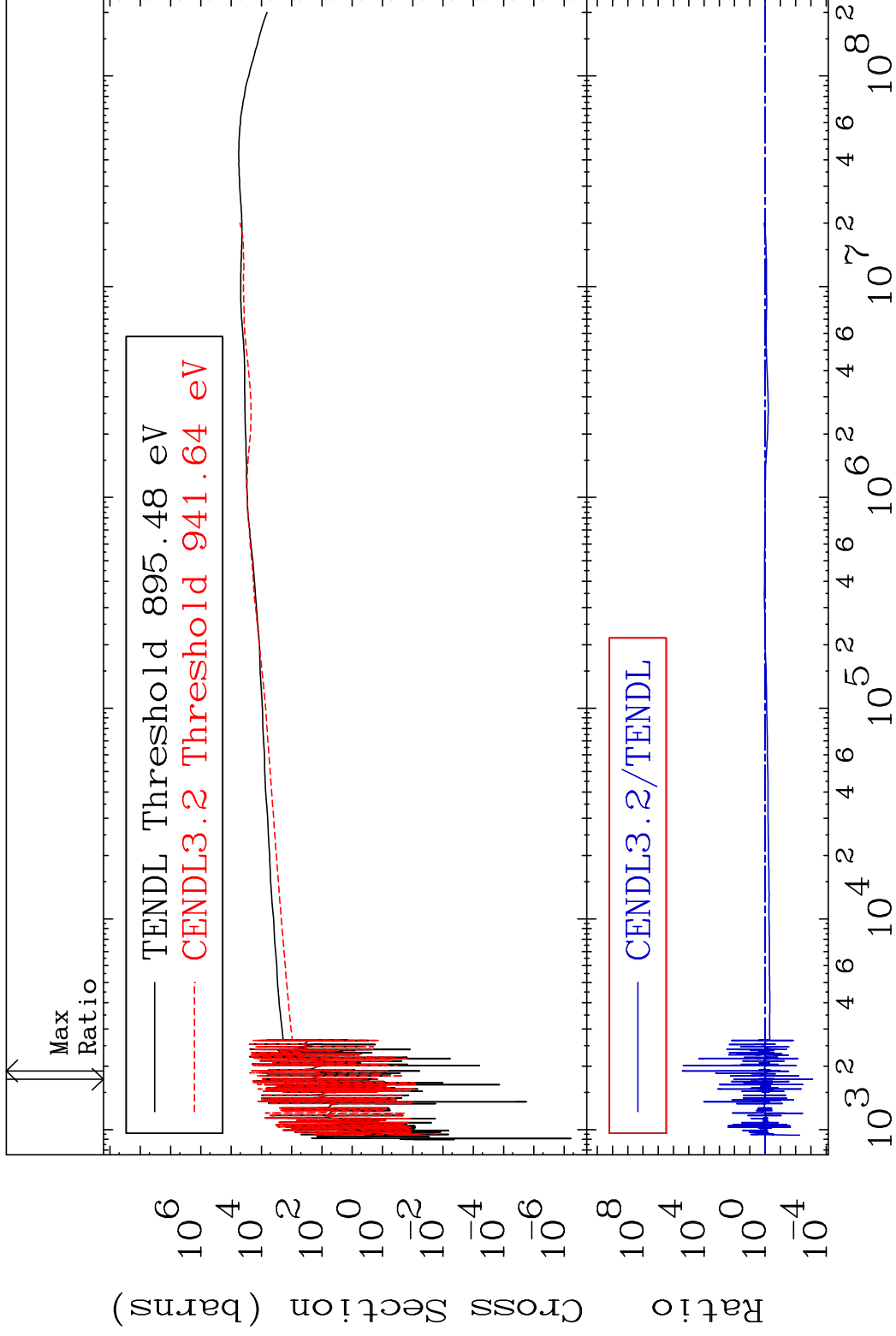
64-Gd-152

MAT 6425

Dpa elastic (mt2)

64-Gd-152

Cross Section -99.92 To 9999. %

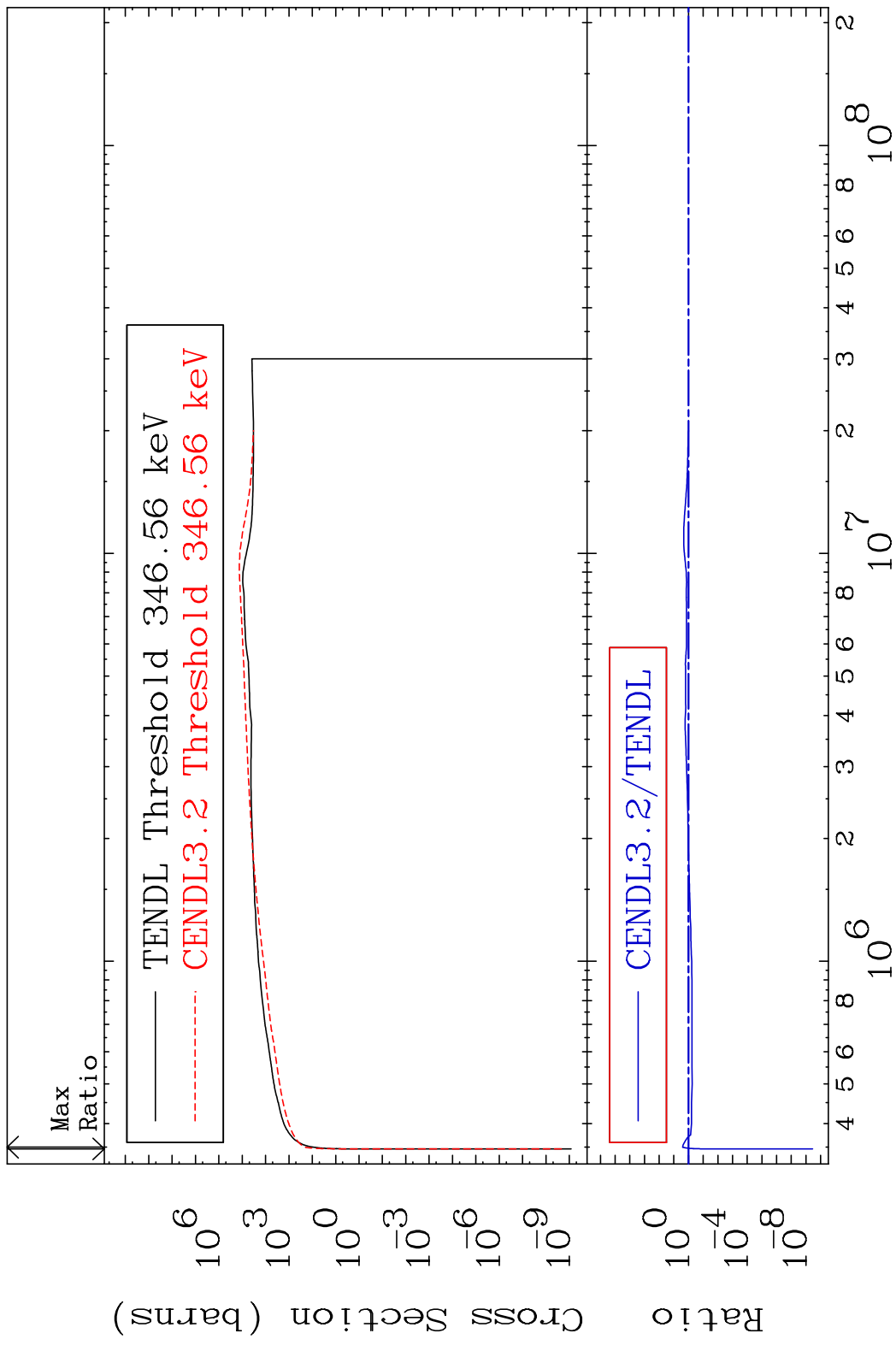


42

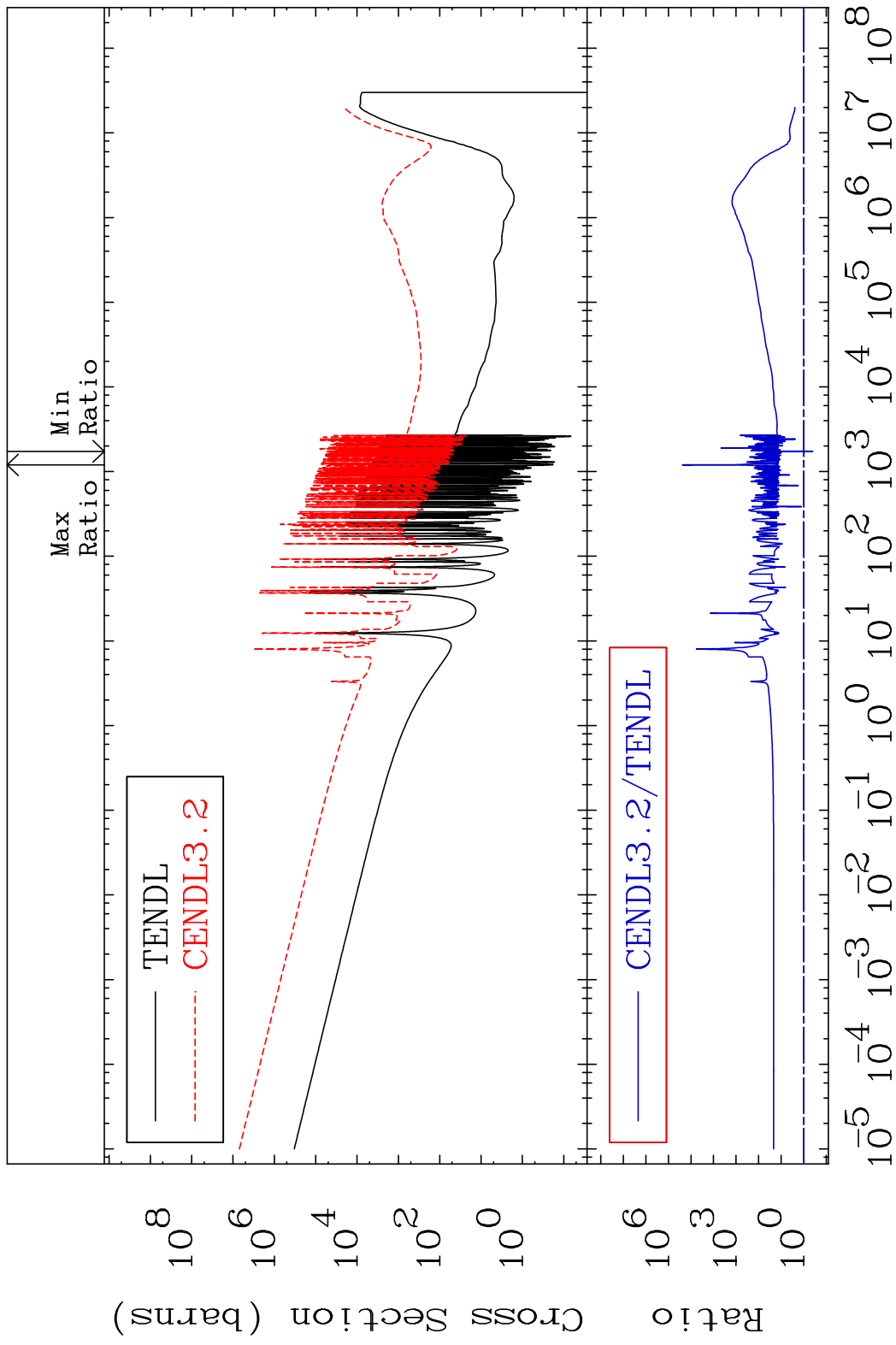
Incident Energy (eV)

64-Gd-152

MAT 6425 Dpa inelastic (mt51-91) 64-Gd-152
 Cross Section -100.0 To 162.0 %



MAT 6425 Dpa disappearance (mt102 -120) 64-Gd-152
 Cross Section -59.78 To 9999. %



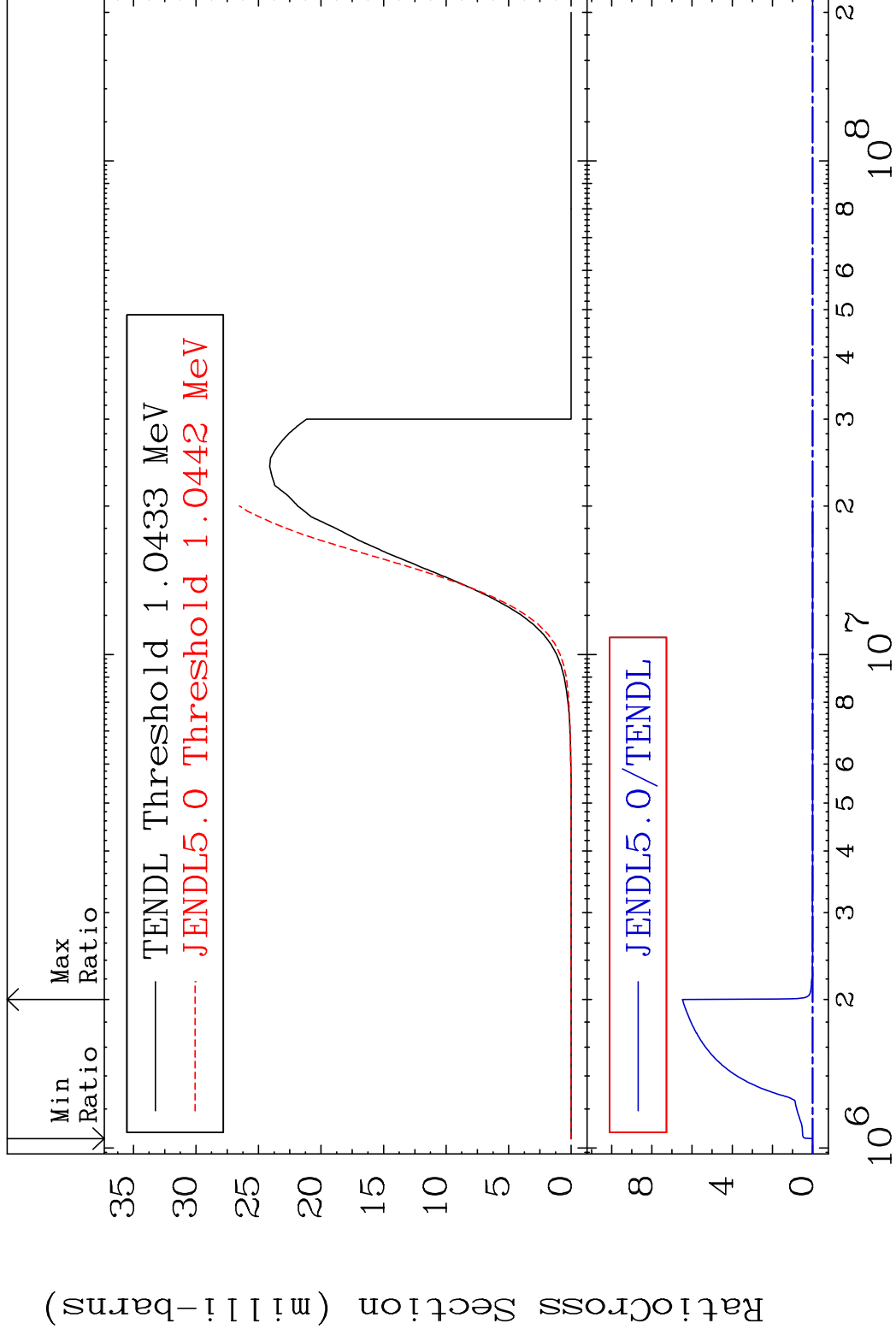
44 Incident Energy (eV) 64-Gd-152

MAT 6425

(n,p)

64-Gd-152

Cross Section -100.0 To 9999. %



45

Incident Energy (eV)

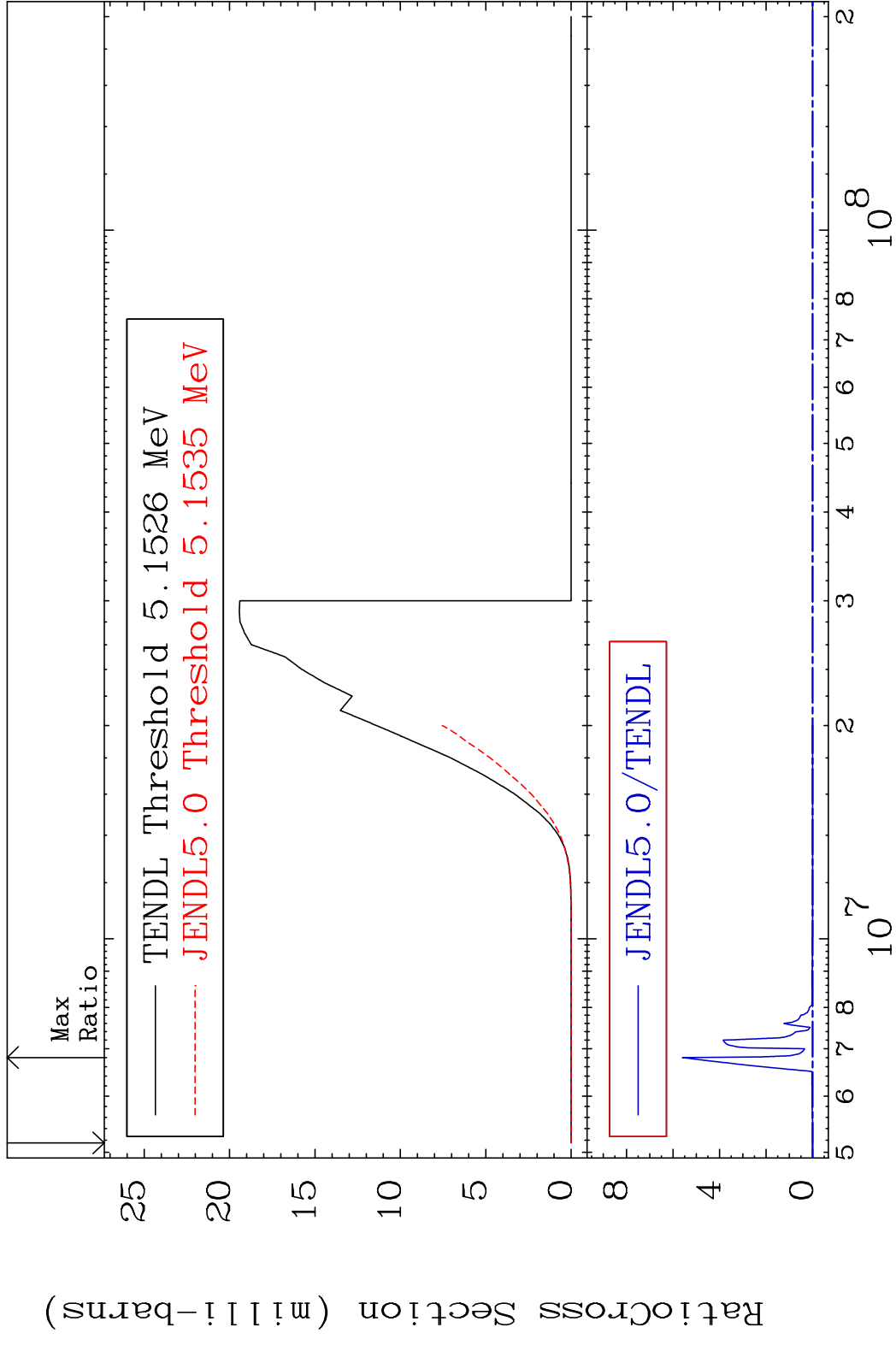
64-Gd-152

MAT 6425

(n,d)

64-Gd-152

Cross Section -100.0 To 9999. %



46

Incident Energy (eV)

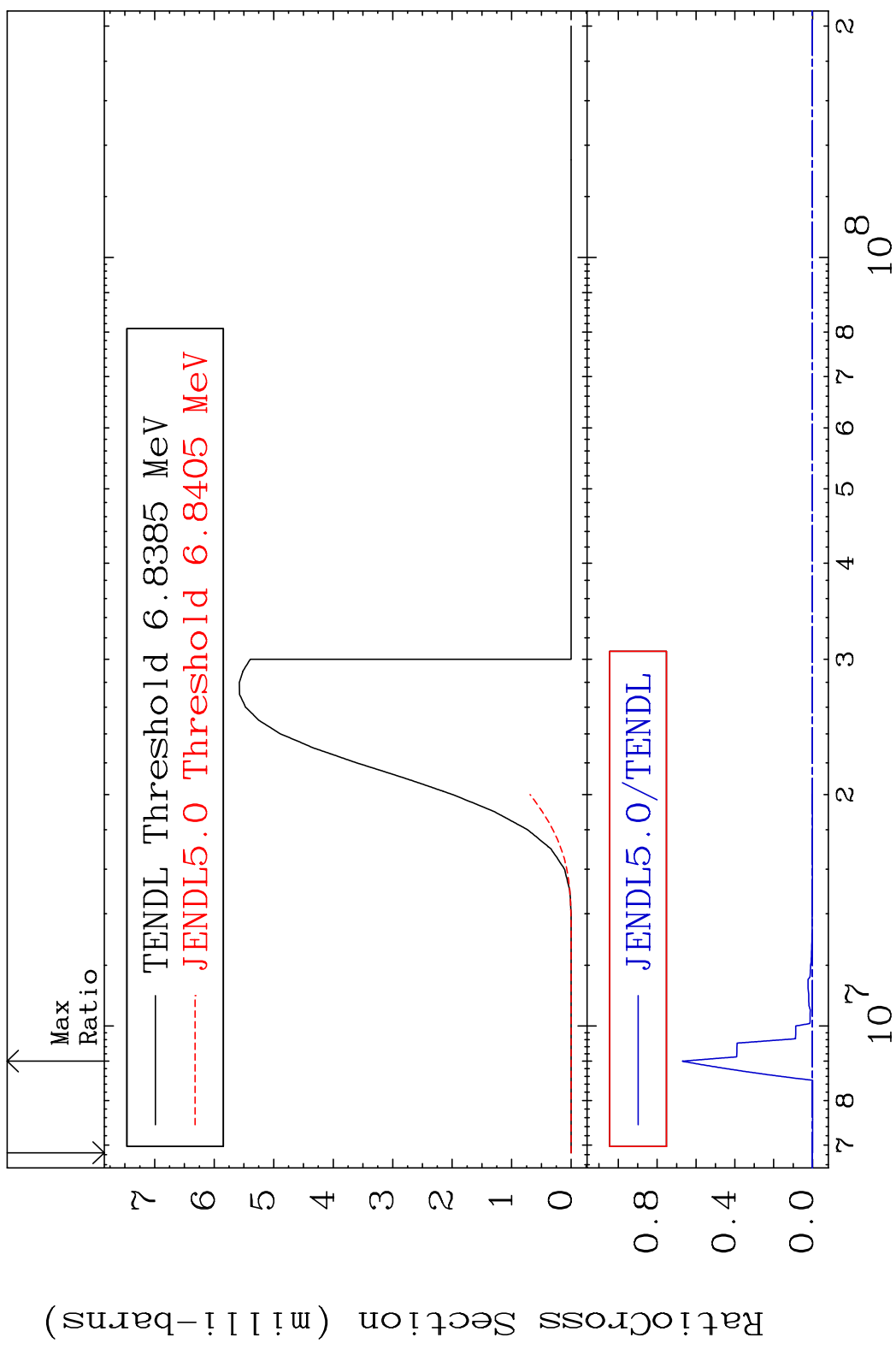
64-Gd-152

MAT 6425

(n, t)

64-Gd-152

Cross Section -100.0 To 9999. %

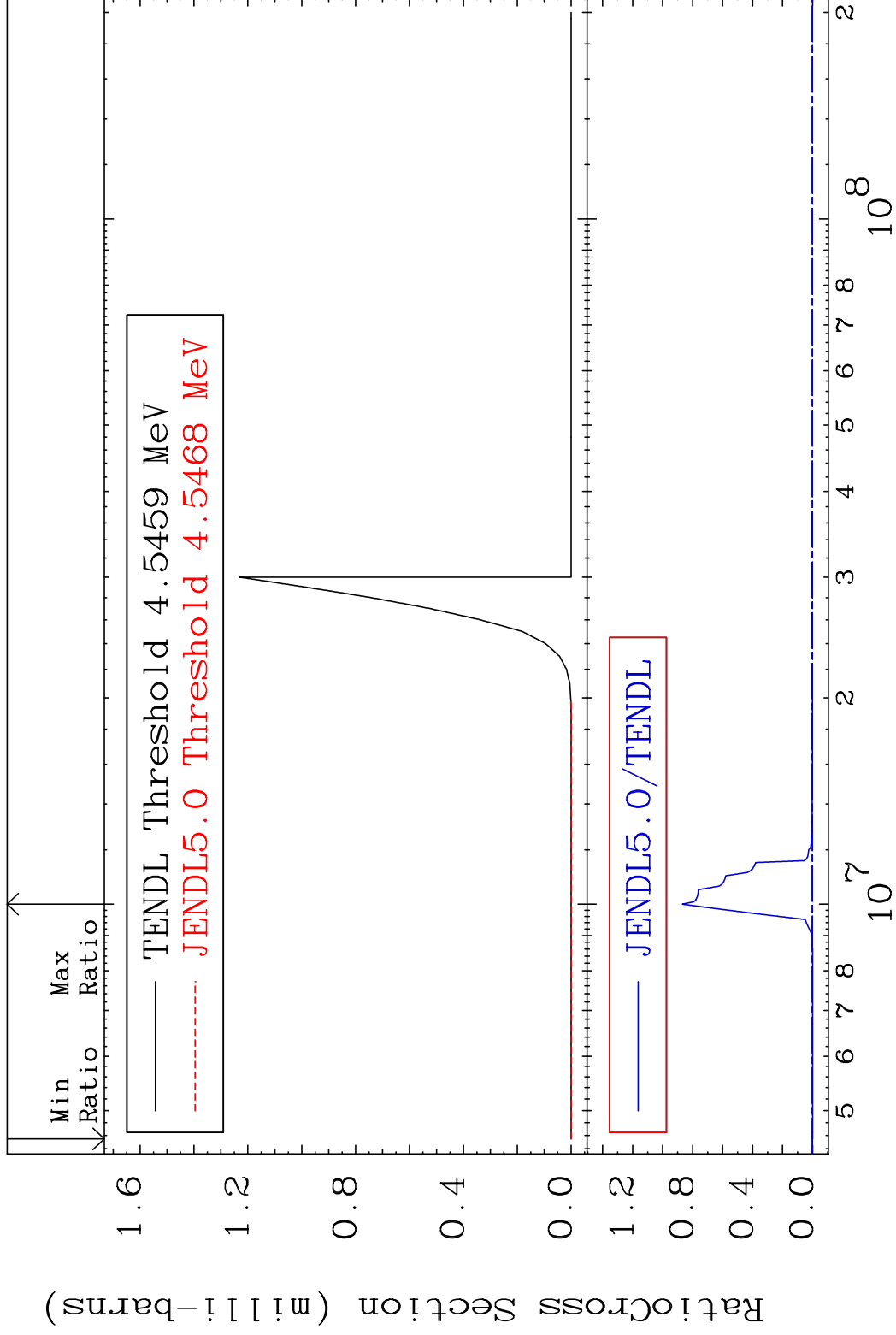


MAT 6425

(n, He-3)

64-Gd-152

Cross Section -100.0 To 9999. %



48

Incident Energy (eV)

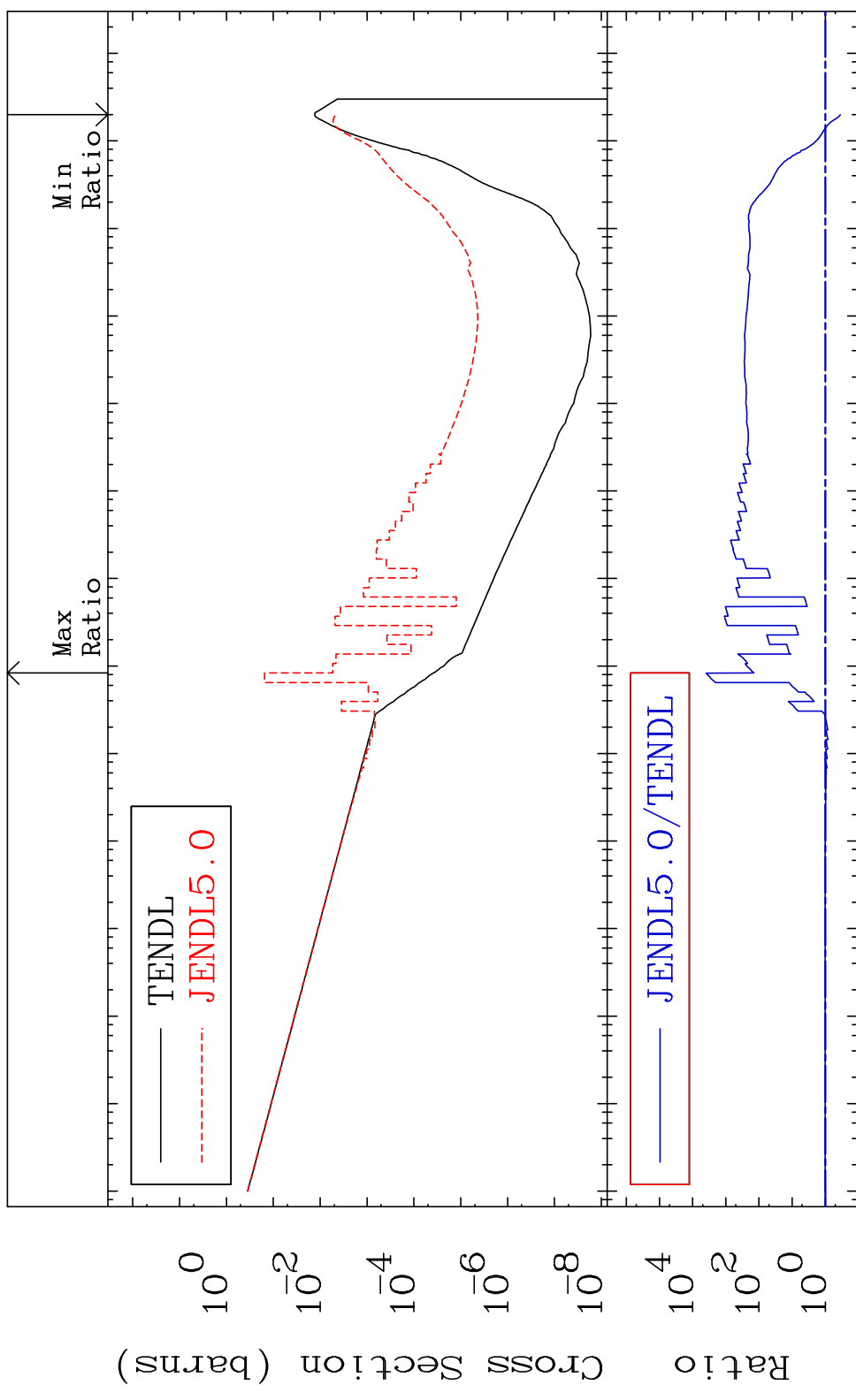
64-Gd-152

MAT 6425

64-Gd-152

(n, α)

Cross Section -65.08 To 9999. %



MAT 6425

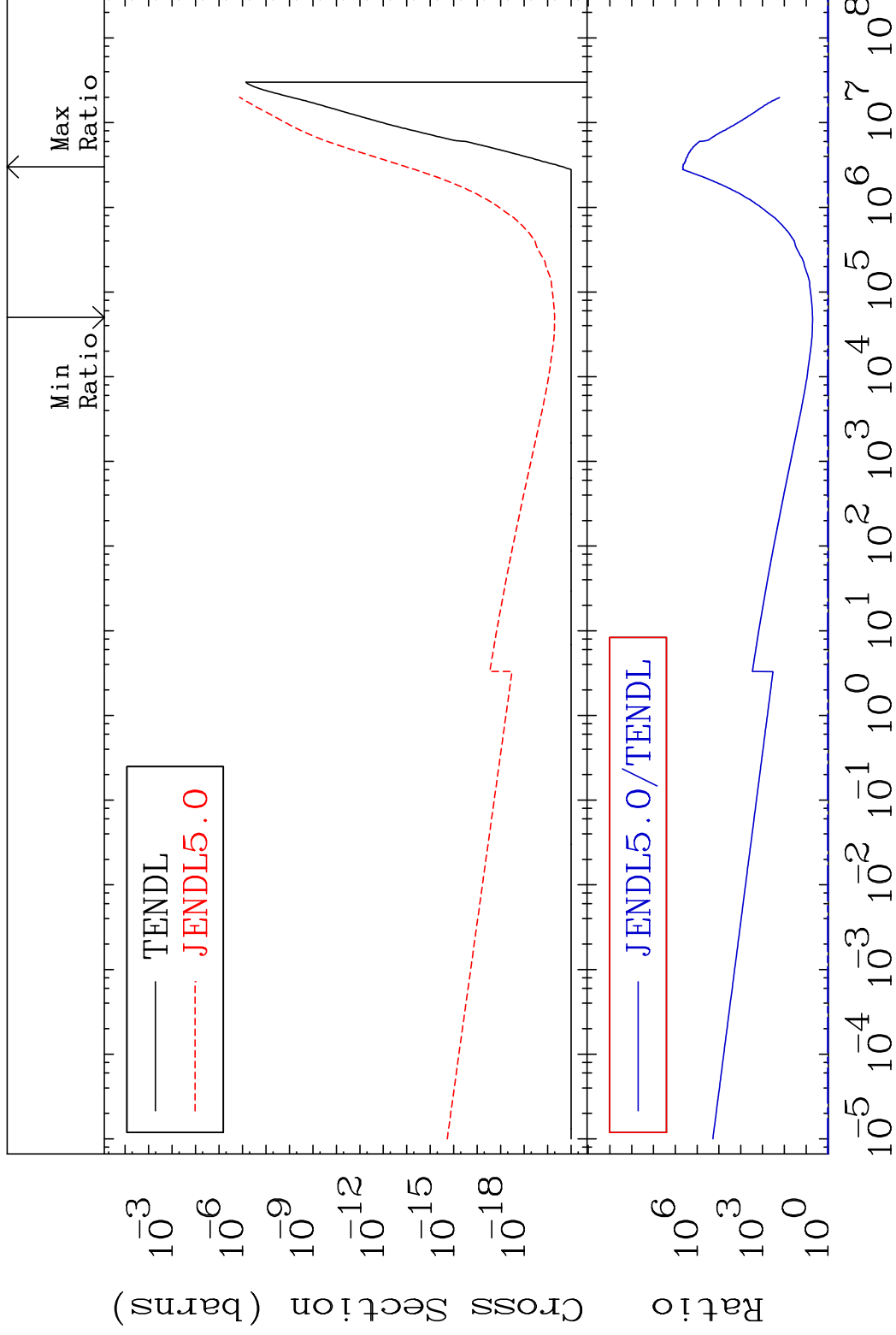
(n,2α)

64-Gd-152

Cross Section

408.2

To 9999. %



50

Incident Energy (eV)

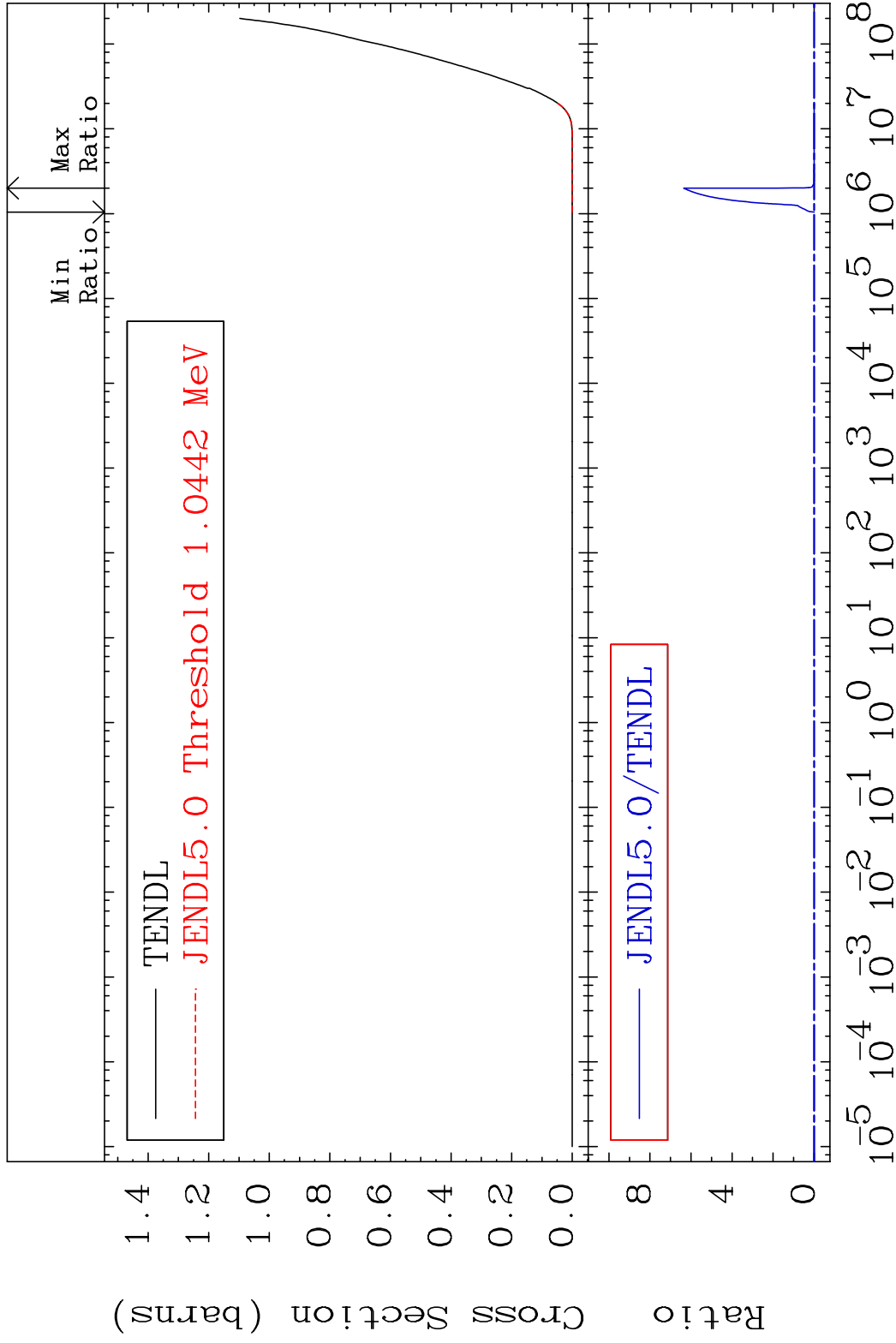
64-Gd-152

MAT 6425

Hydrogen Production

64-Gd-152

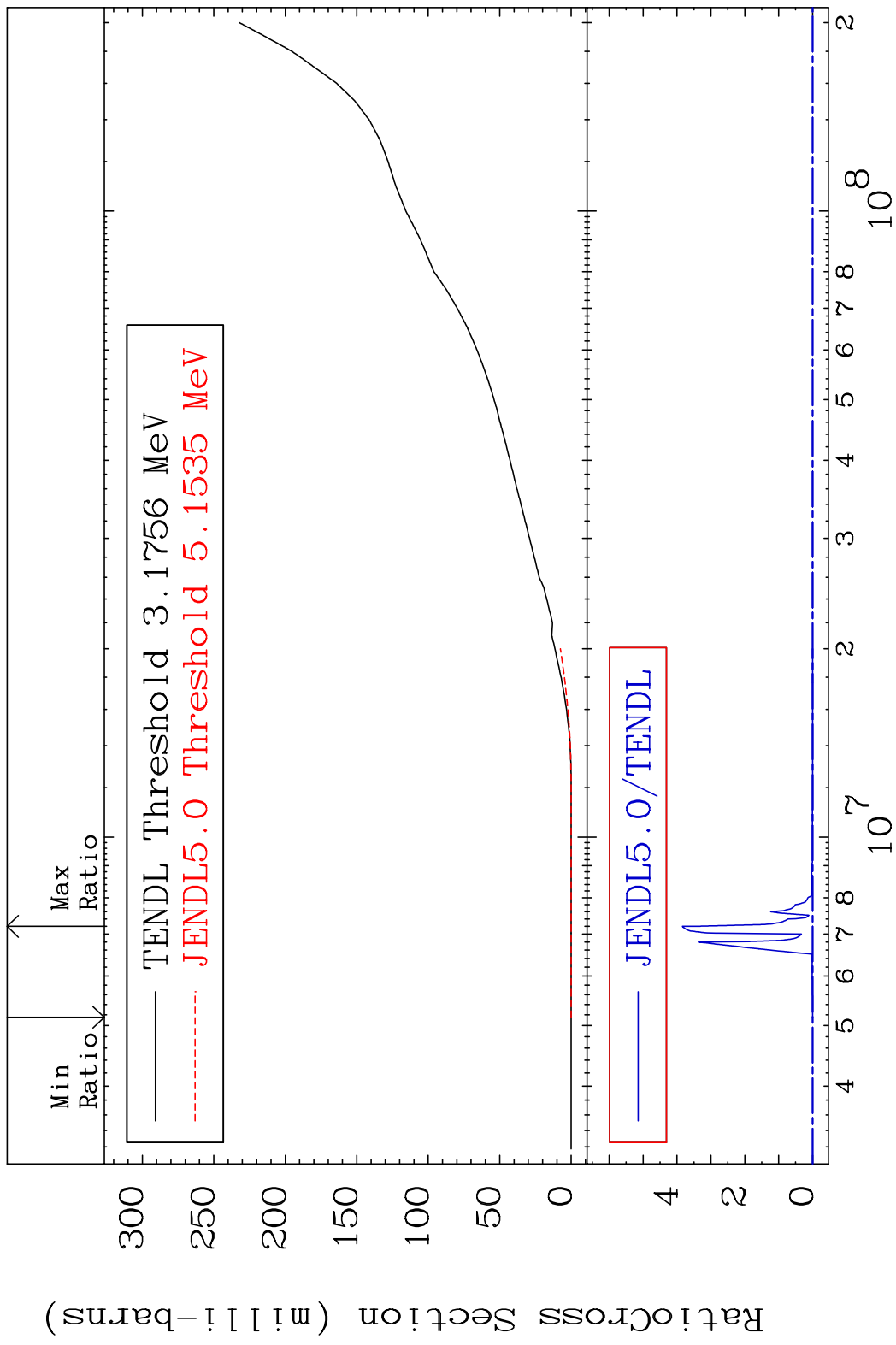
Cross Section -100.0 To 9999. %



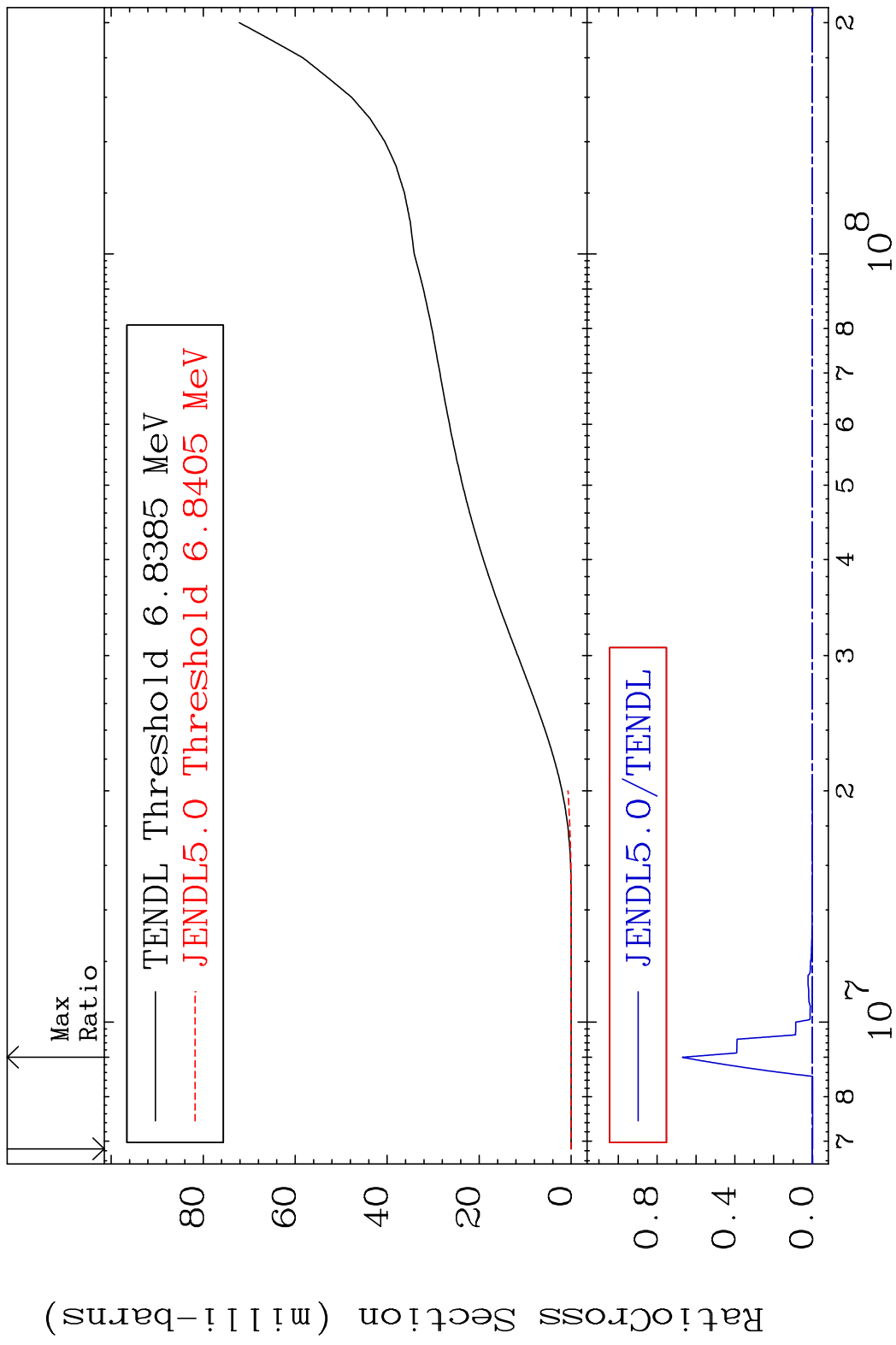
51

Incident Energy (eV)

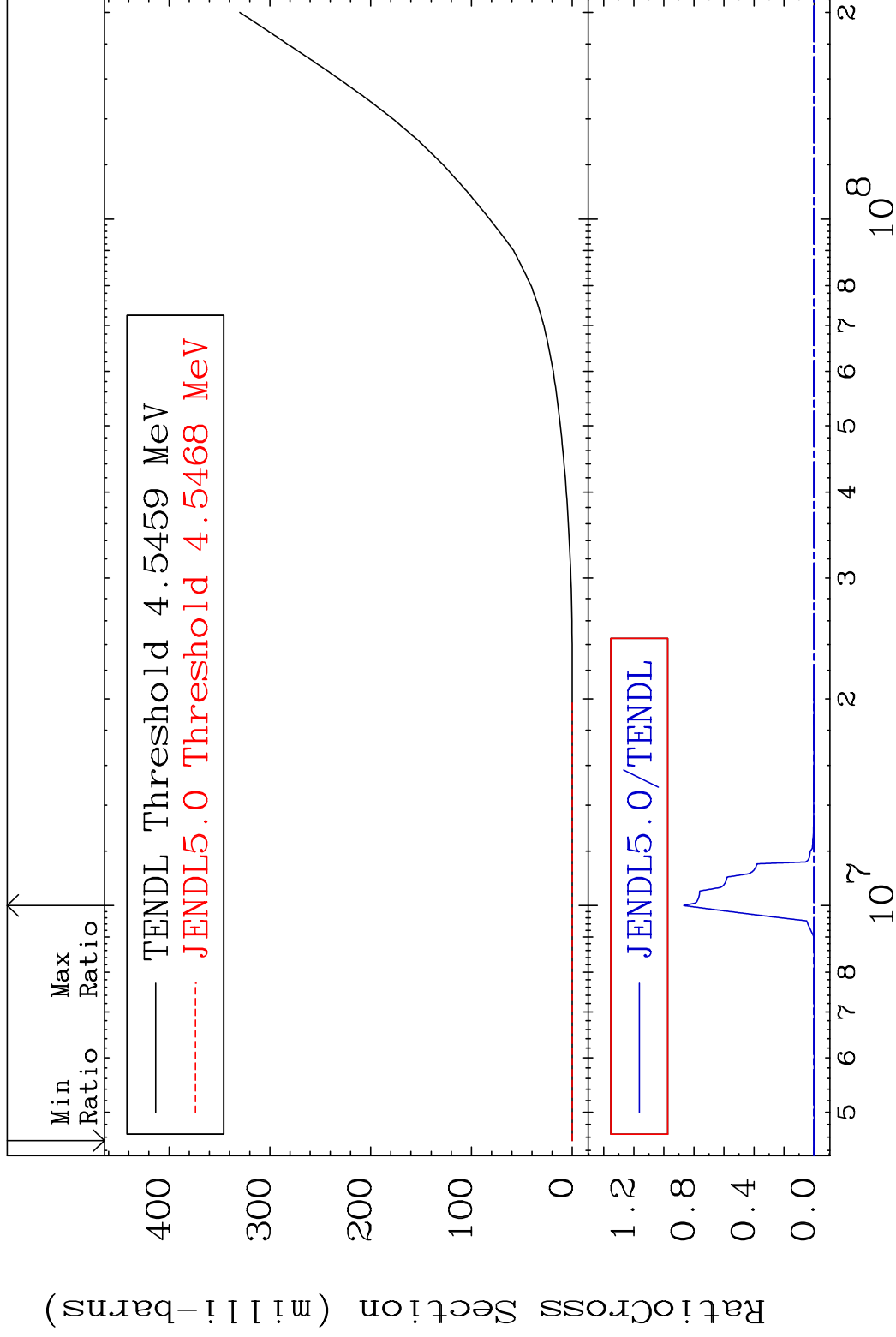
64-Gd-152



MAT 6425 Tritium Production 64-Gd-152
 Cross Section -100.0 To 9999. %



Cross Section -100.0 To 9999. %

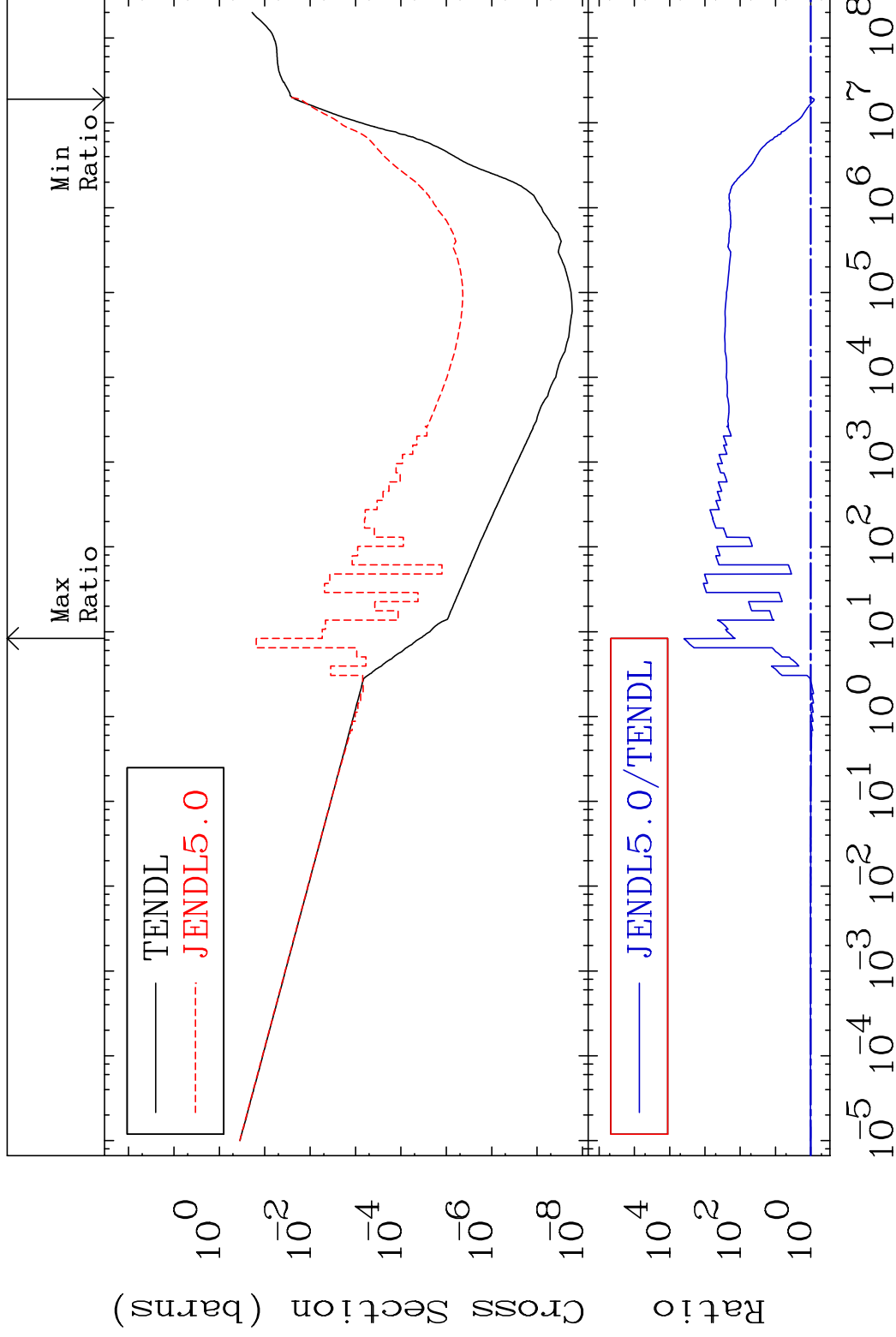


MAT 6425

He-4 Production

64-Gd-152

Cross Section -19.50 To 9999. %

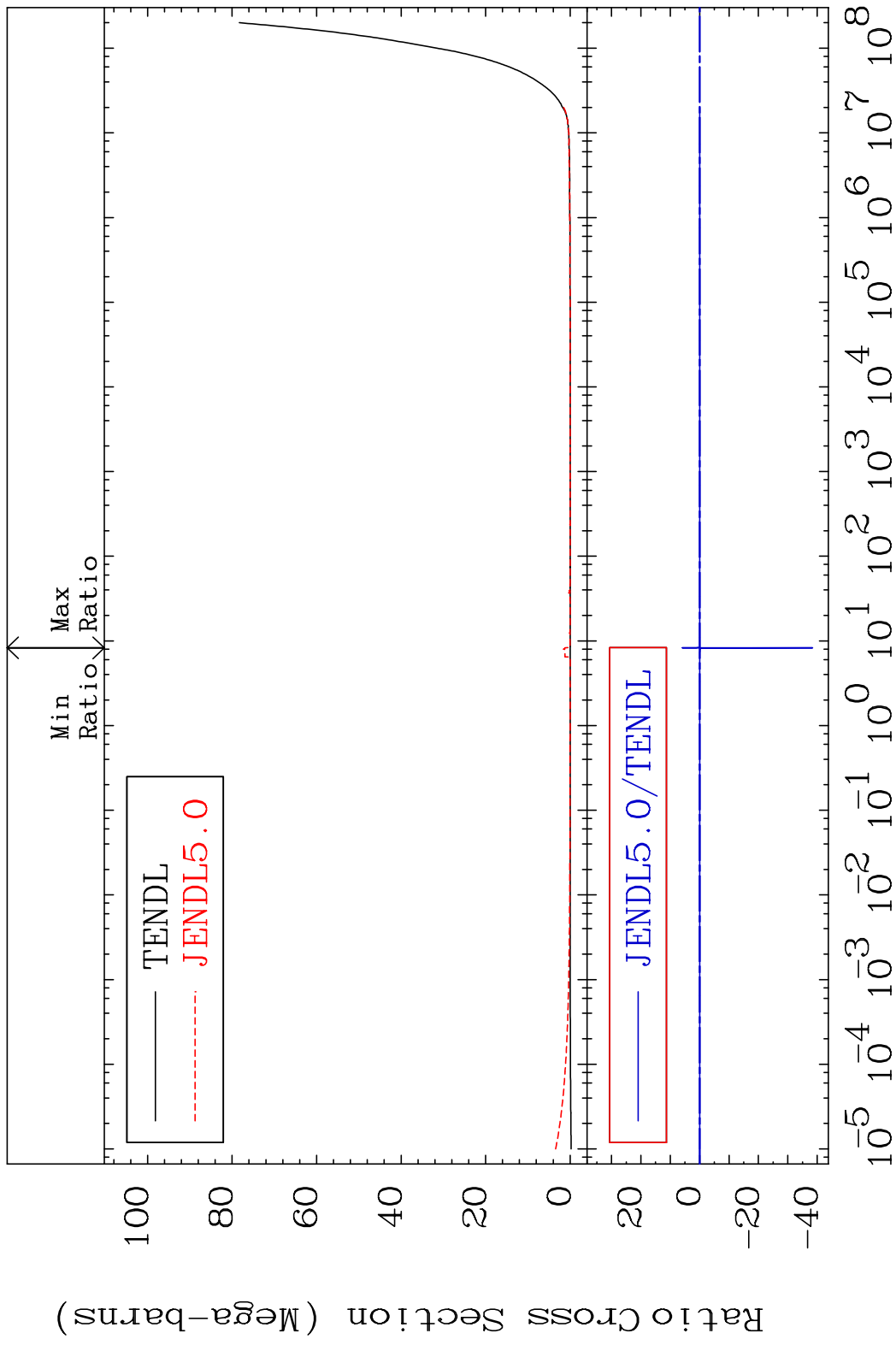


55

Incident Energy (eV)

64-Gd-152

MAT 6425 Kerma total (eV-barns) 64-Gd-152
 Cross Section -9999. To 9999. %

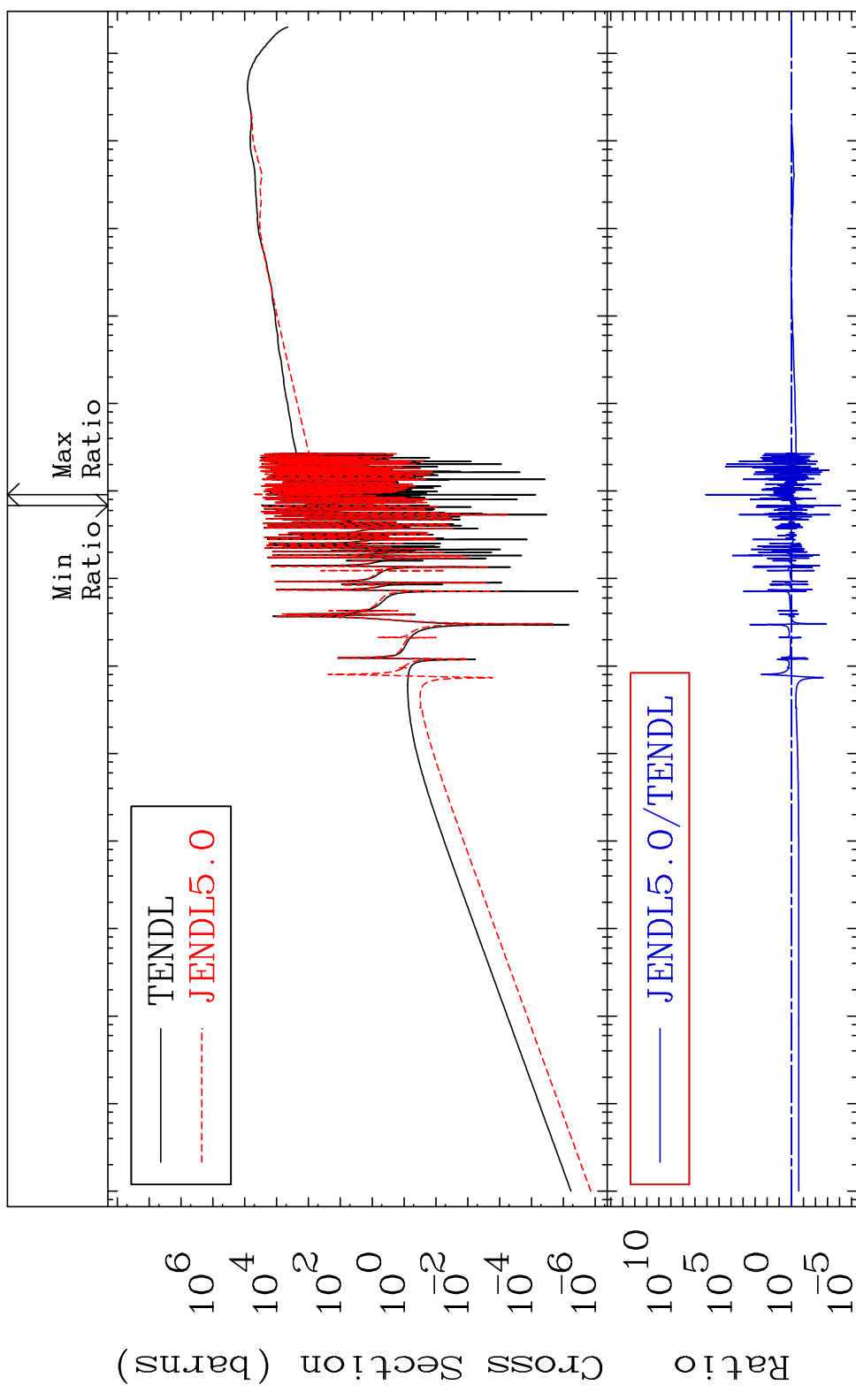


56 Incident Energy (eV) 64-Gd-152

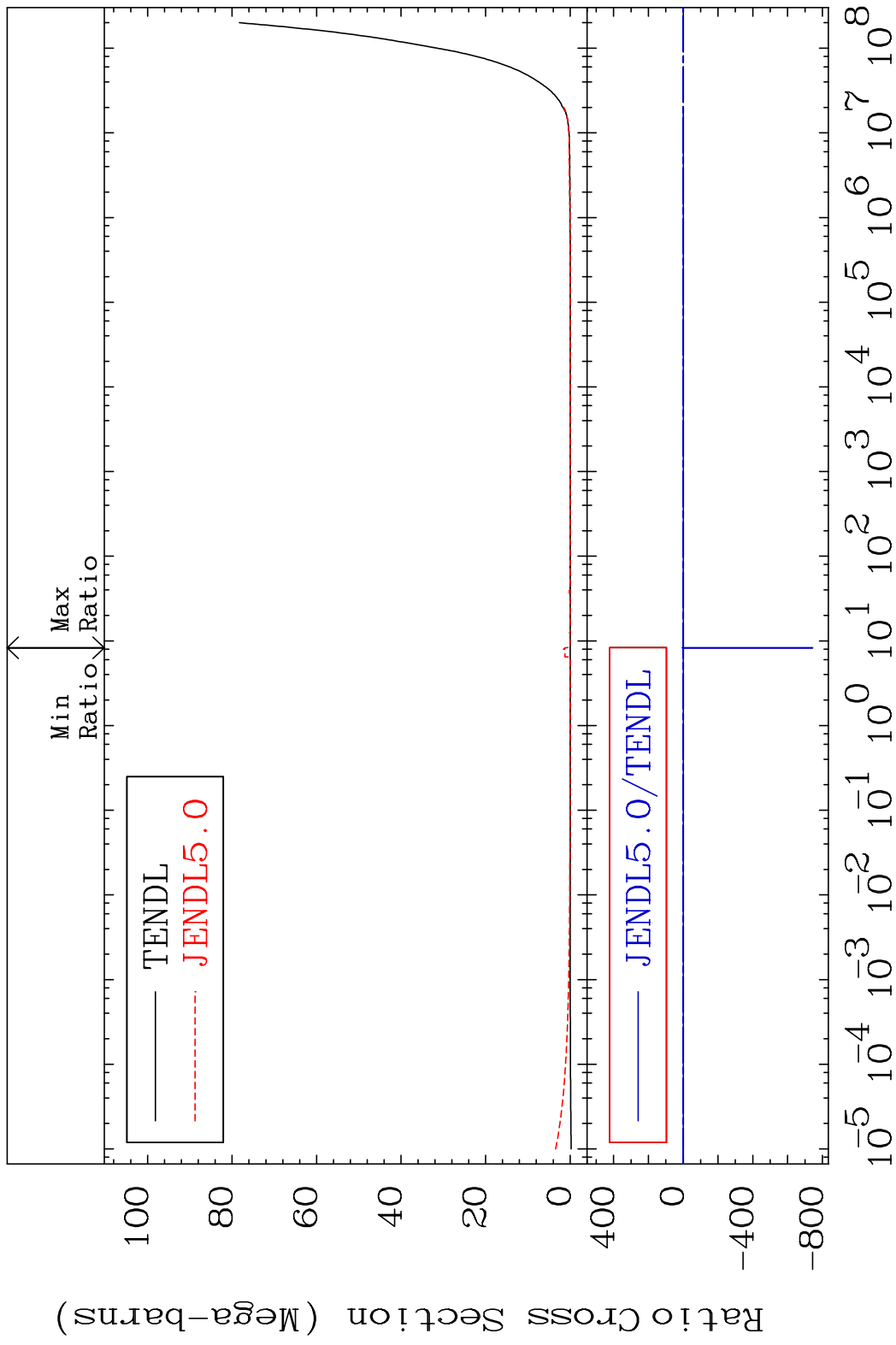
MAT 6425

Kerma elastic
Cross Section -99.99 To 9999. %

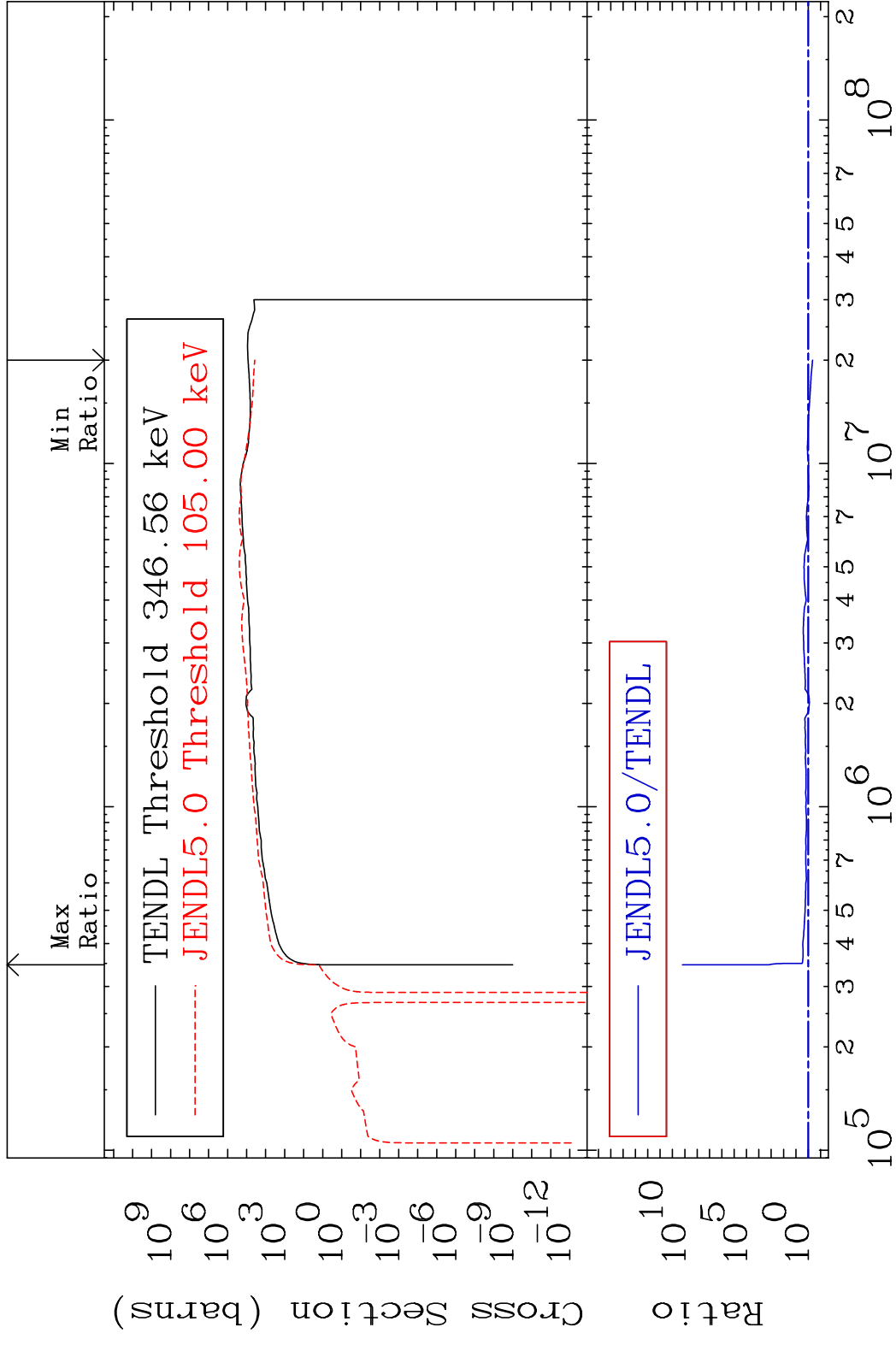
64-Gd-152



MAT 6425 Kerma non-elastic (all but mt2) 64-Gd-152
 Cross Section -9999. To 9999. %

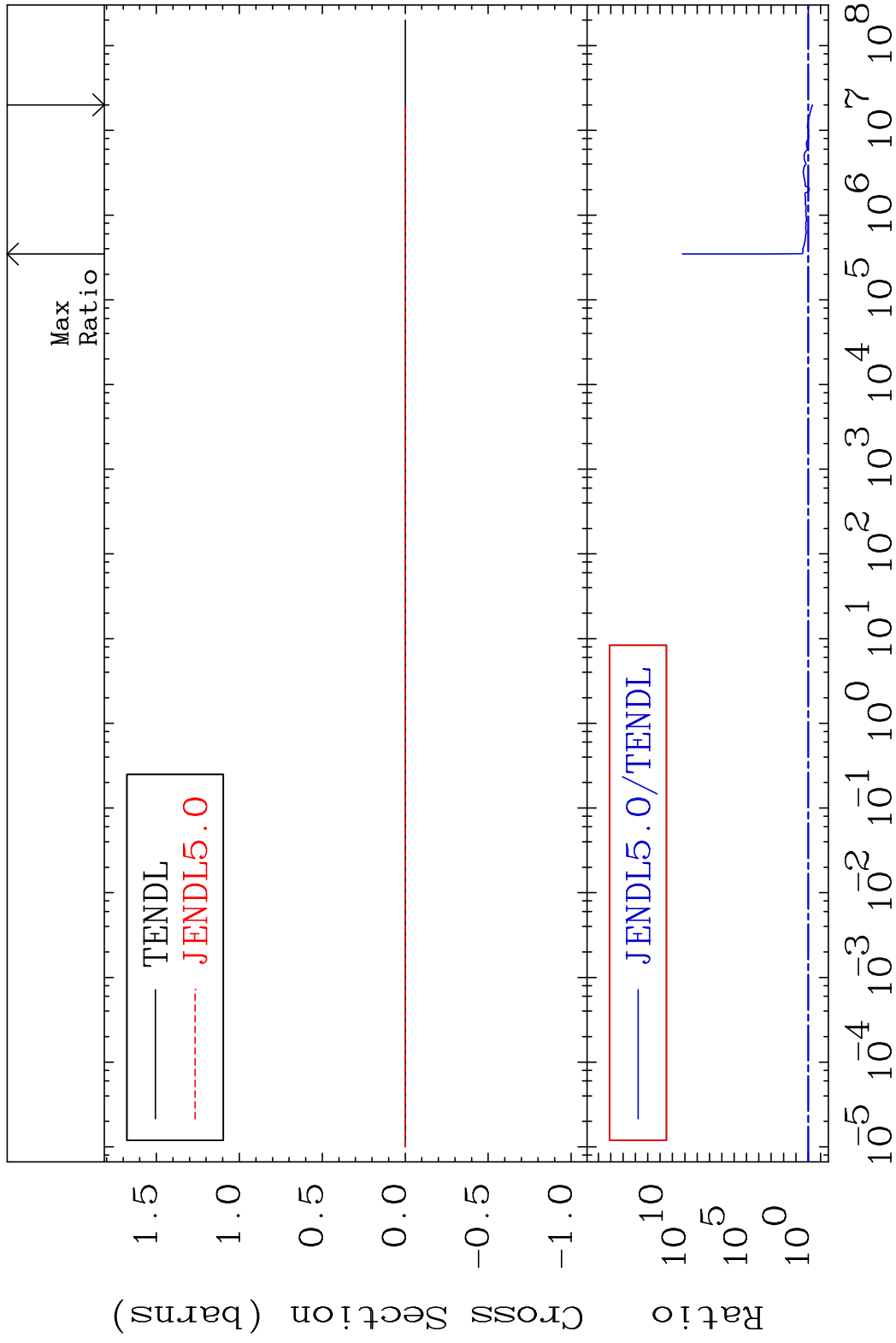


MAT 6425 Kerma inelastic (mt51-91) 64-Gd-152
 Cross Section -55.28 To 9999. %



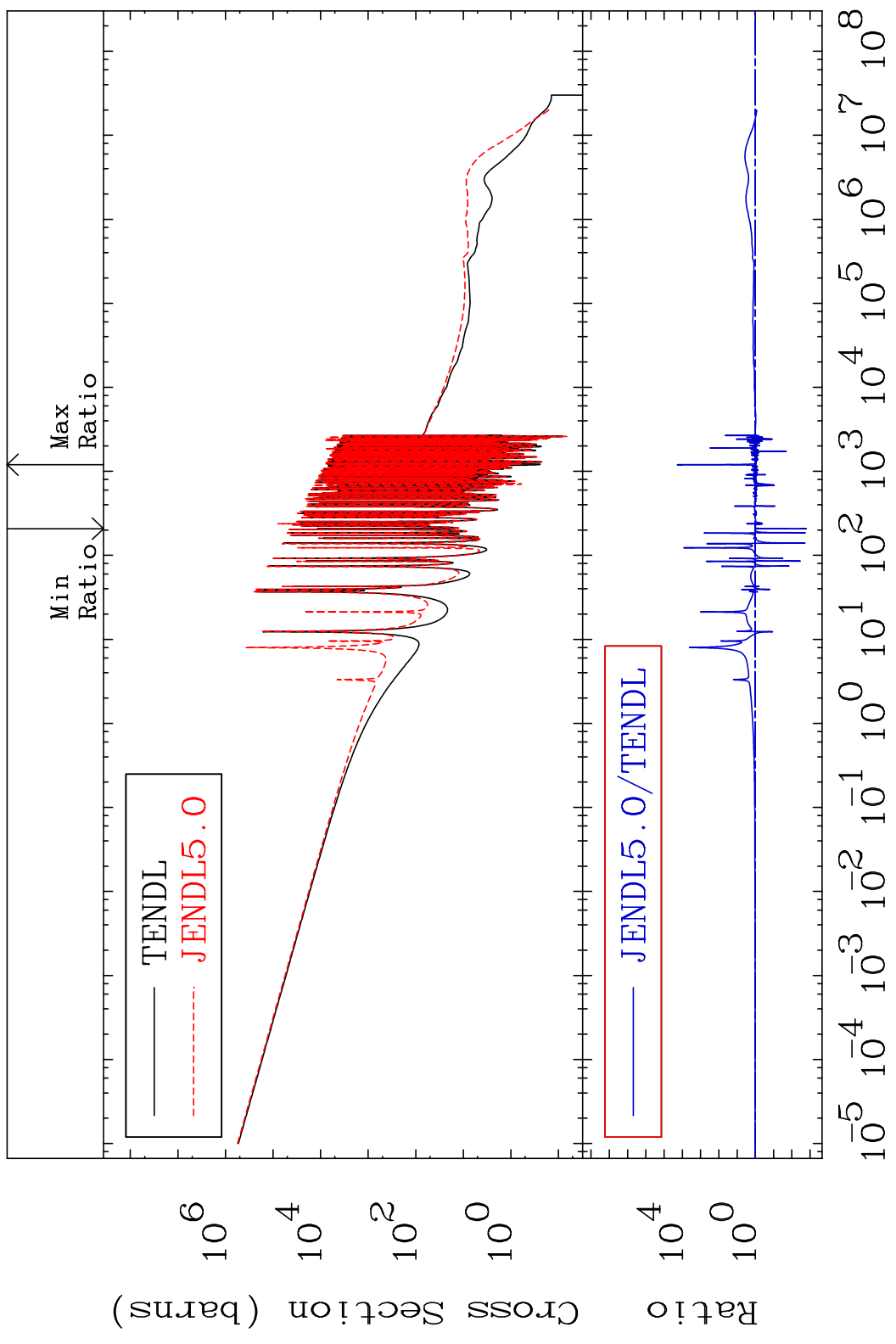
59 Incident Energy (eV) 64-Gd-152

MAT 6425 Kerma fission (mt18 or mt19-20-21-38) 64-Gd-152
 Cross Section -55.28 To 9999. %

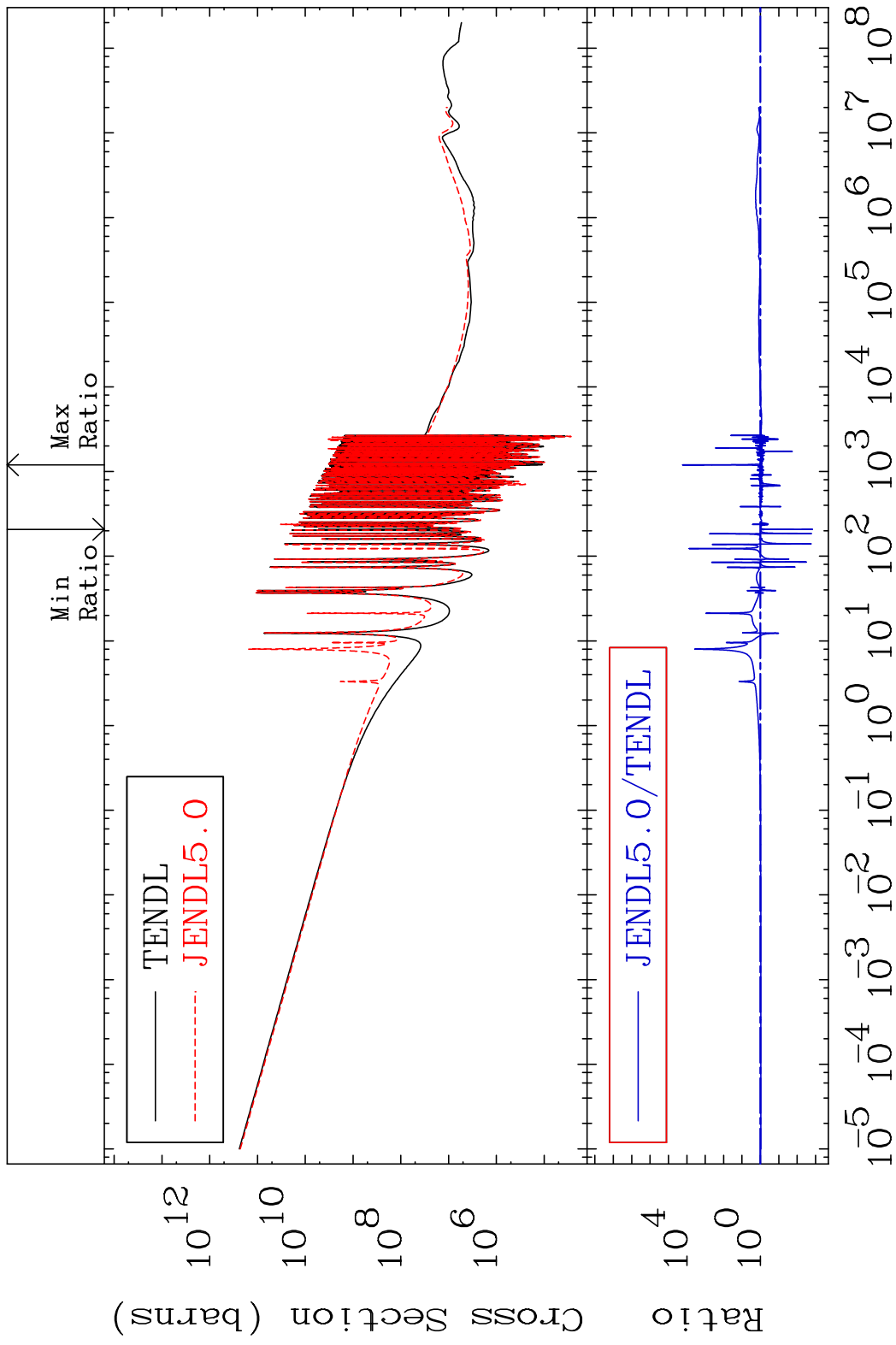


MAT 6425

Kerma capture (mt102) 64-Gd-152
Cross Section -99.84 To 9999. %

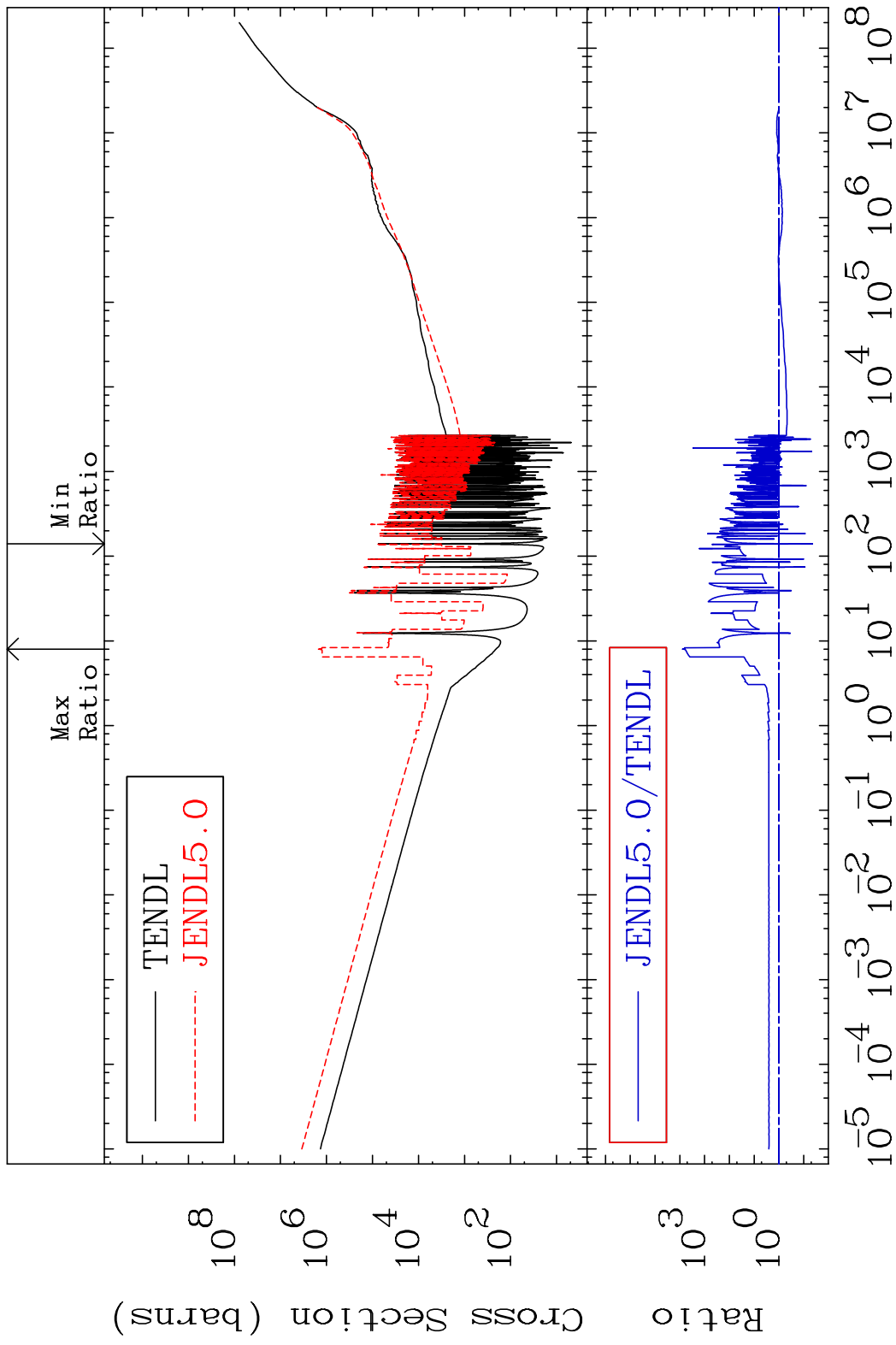


MAT 6425 Total photon (eV-barns) 64-Gd-152
Cross Section -99.85 To 9999. %

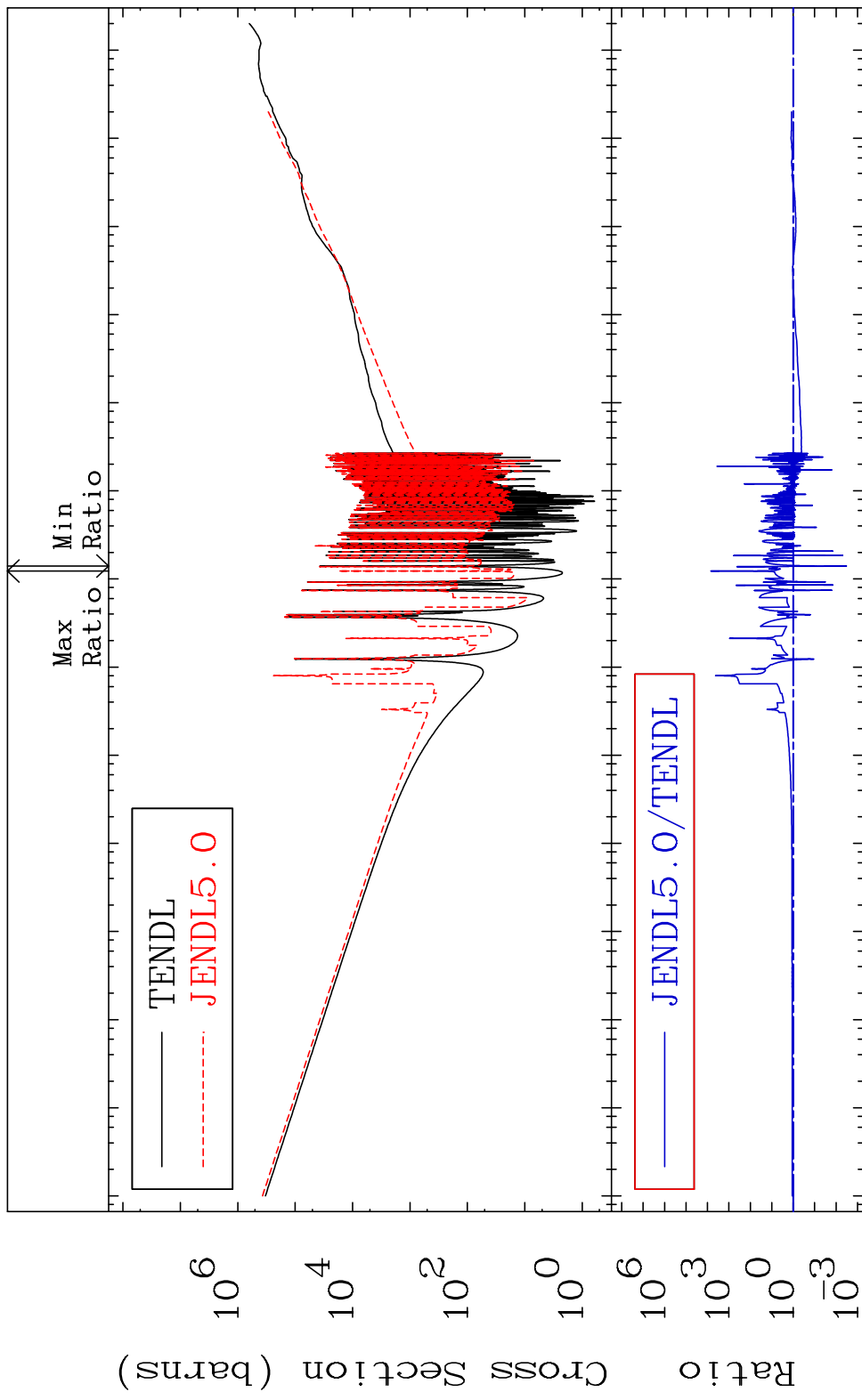


62 Incident Energy (eV) 64-Gd-152

MAT 6425 Total kinematic kerma (high limit) 64-Gd-152
 Cross Section -95.61 To 9999. %



MAT 6425 Dpa total (eV-barns) 64-Gd-152
 Cross Section -99.67 To 9999. %



64 Incident Energy (eV) 64-Gd-152

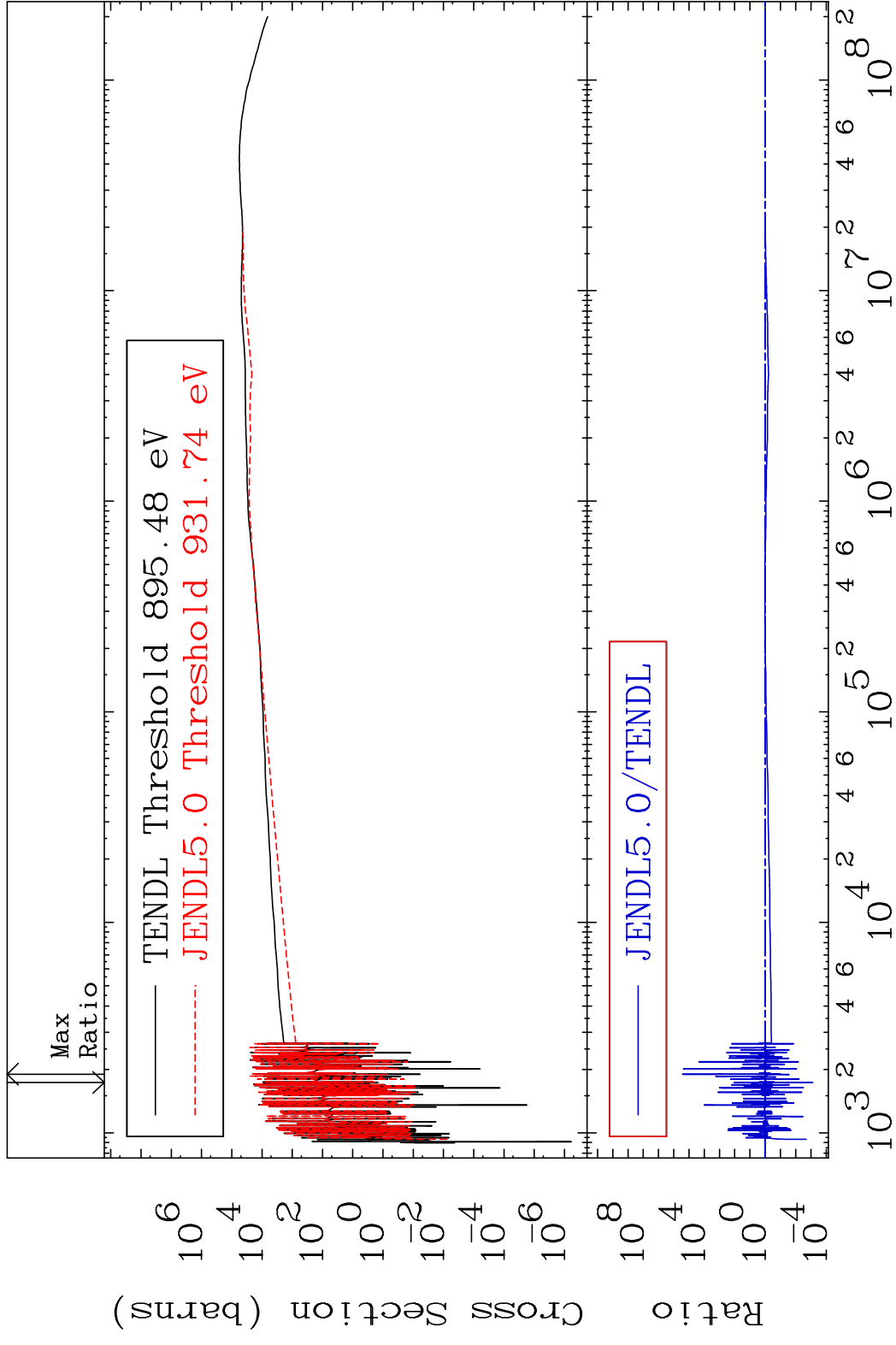
MAT 6425

Dpa elastic (mt2)

64-Gd-152

Cross Section

-99.92 To 9999. %

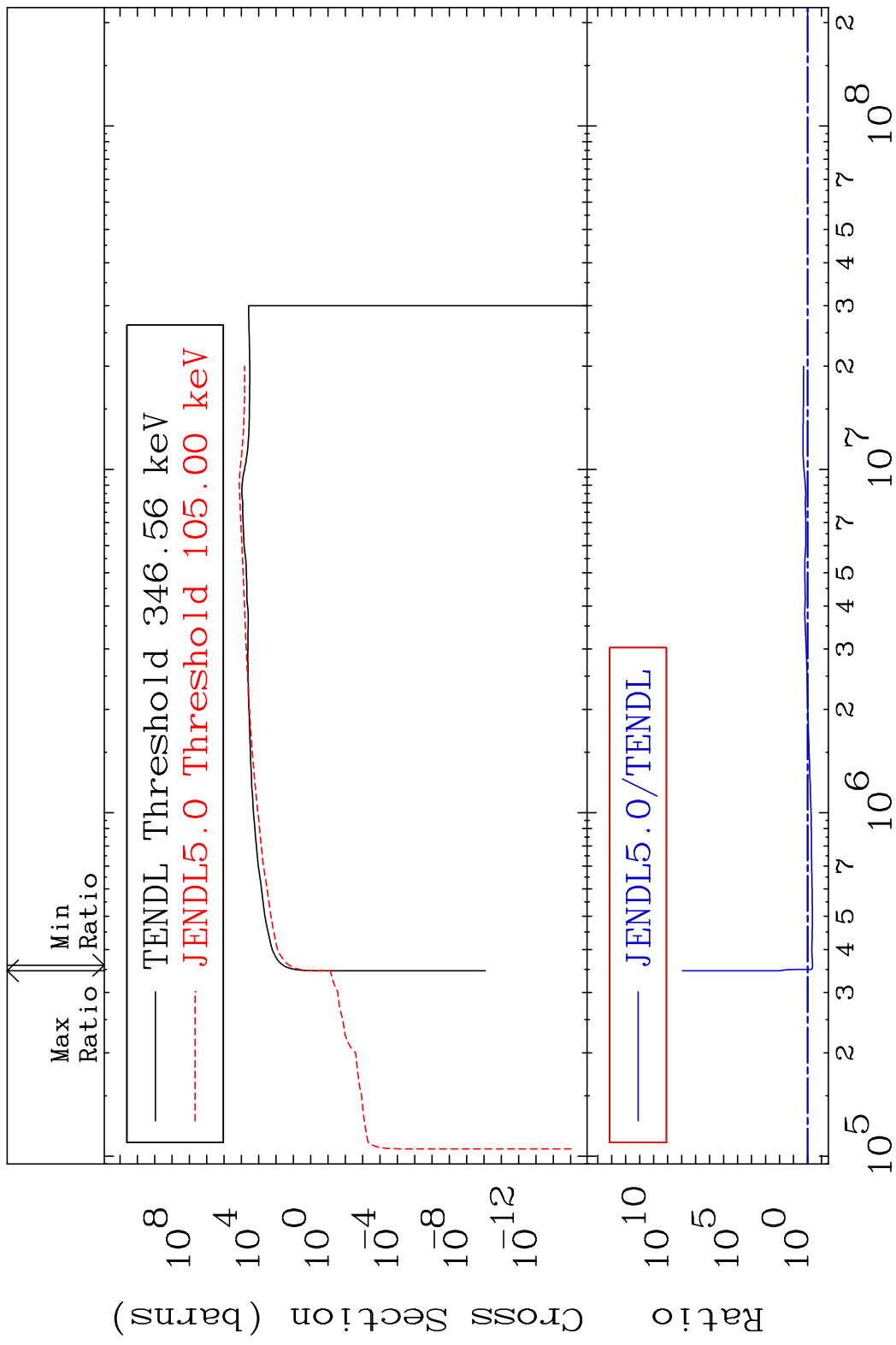


65

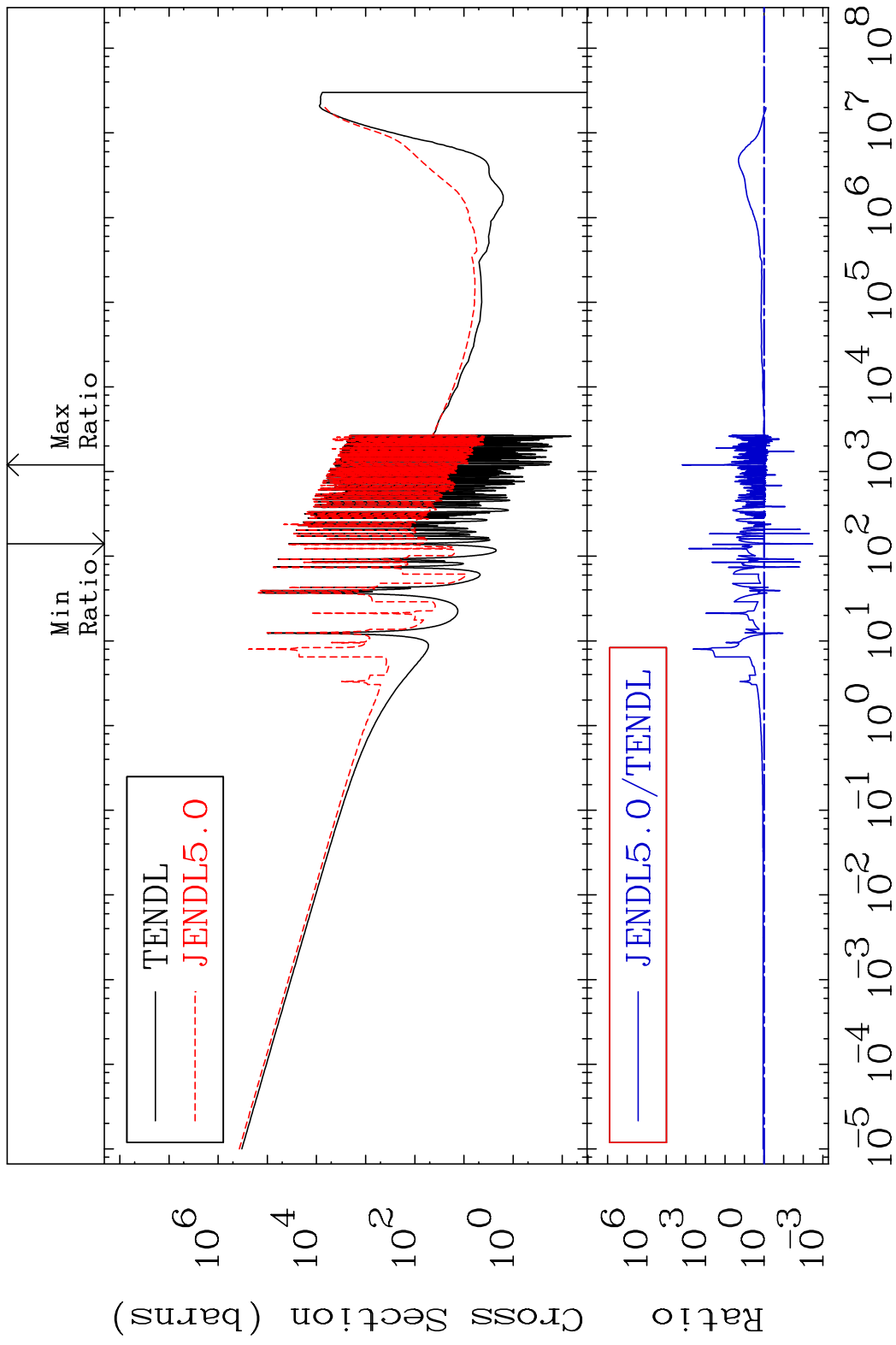
Incident Energy (eV)

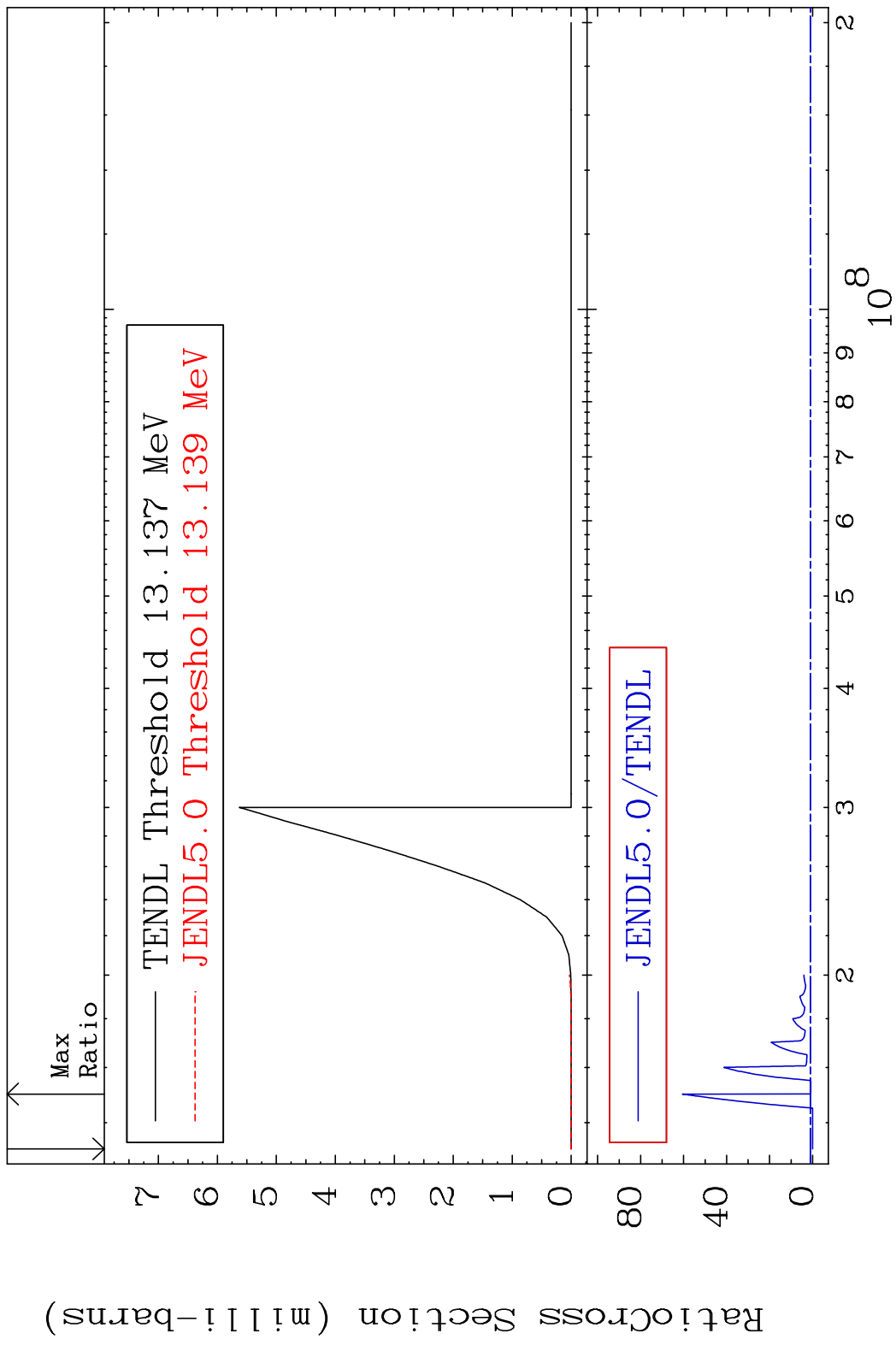
64-Gd-152

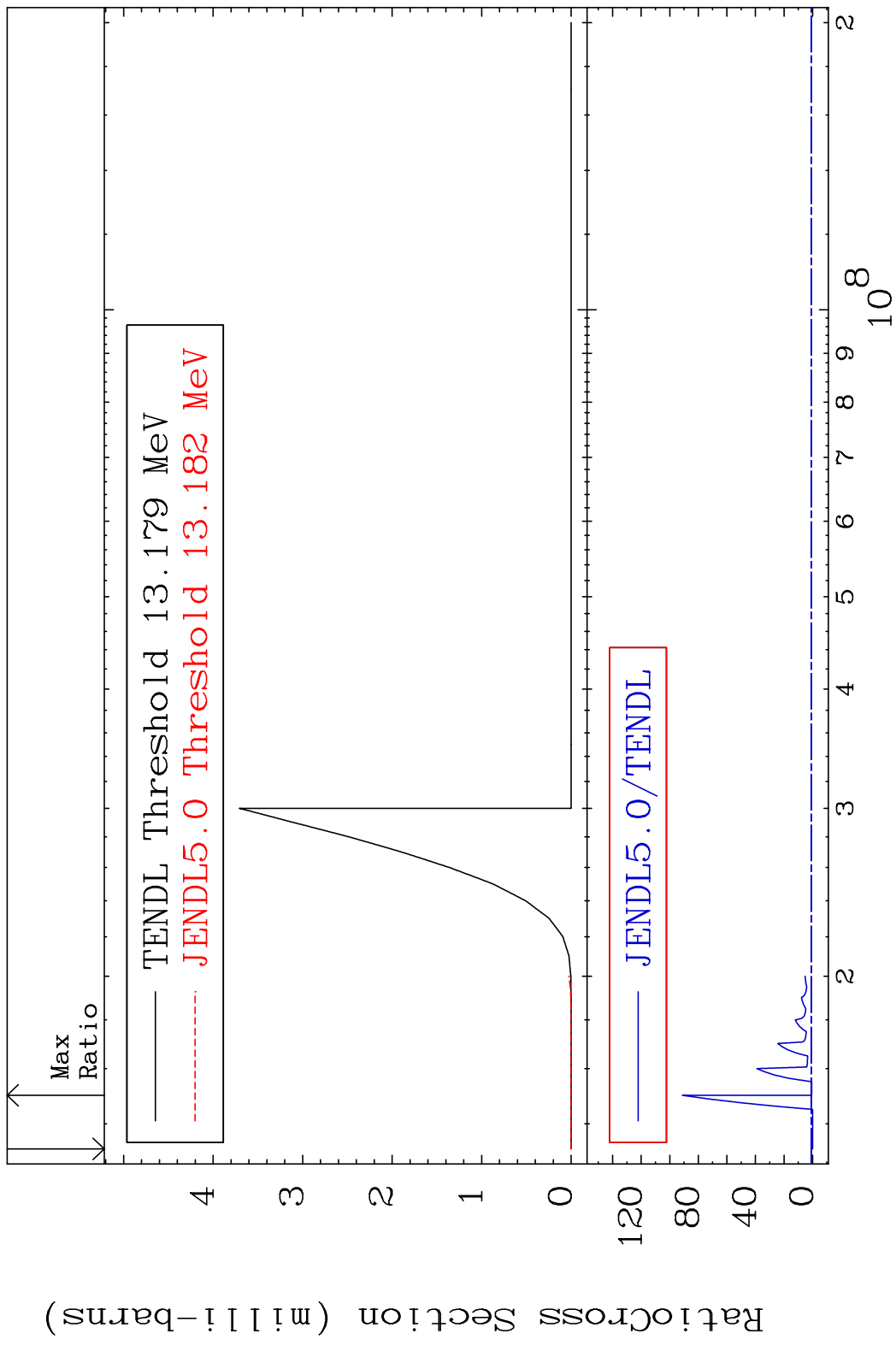
MAT 6425 Dpa inelastic (mt51-91) 64-Gd-152
 Cross Section -56.52 To 9999. %

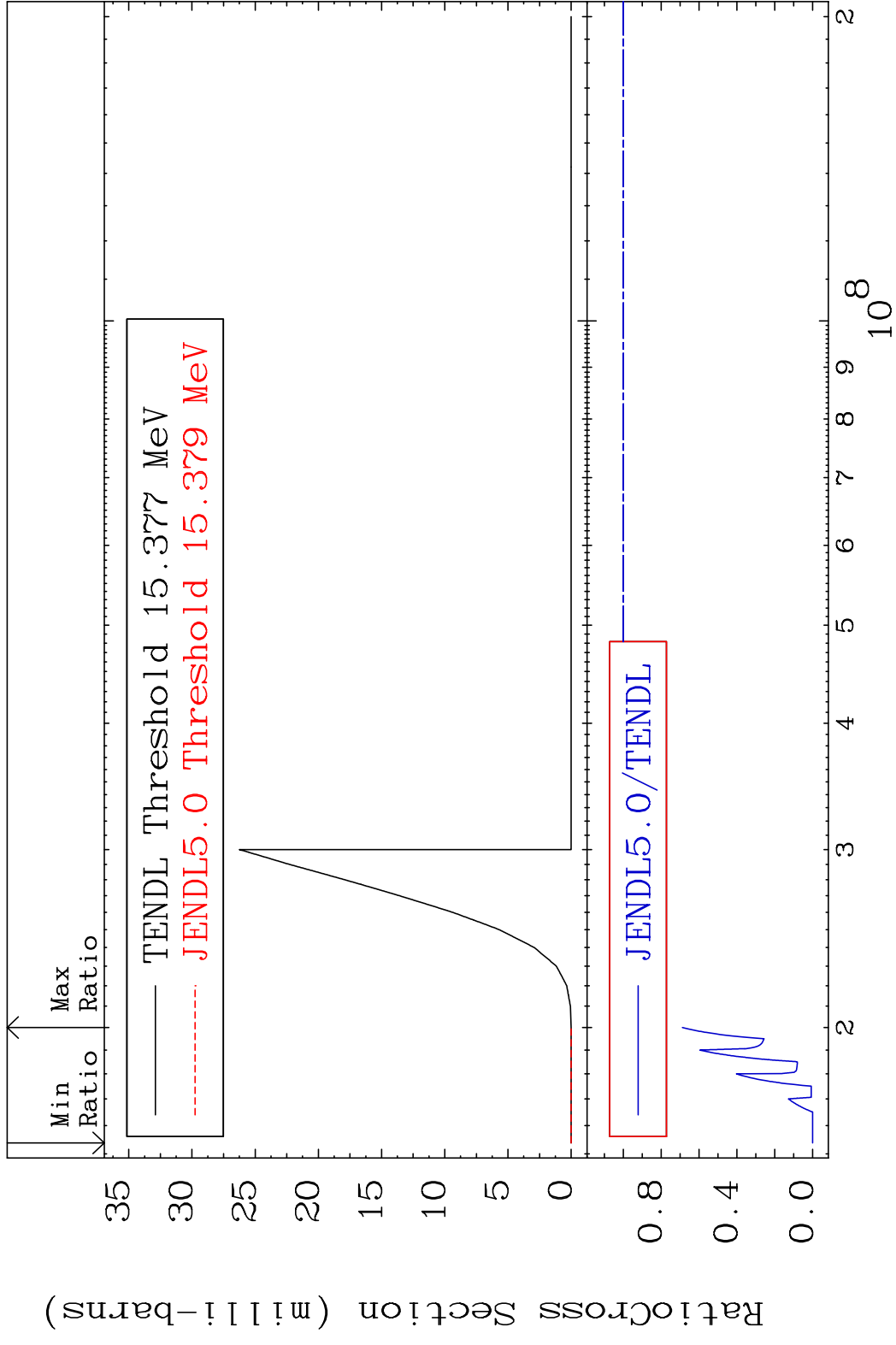


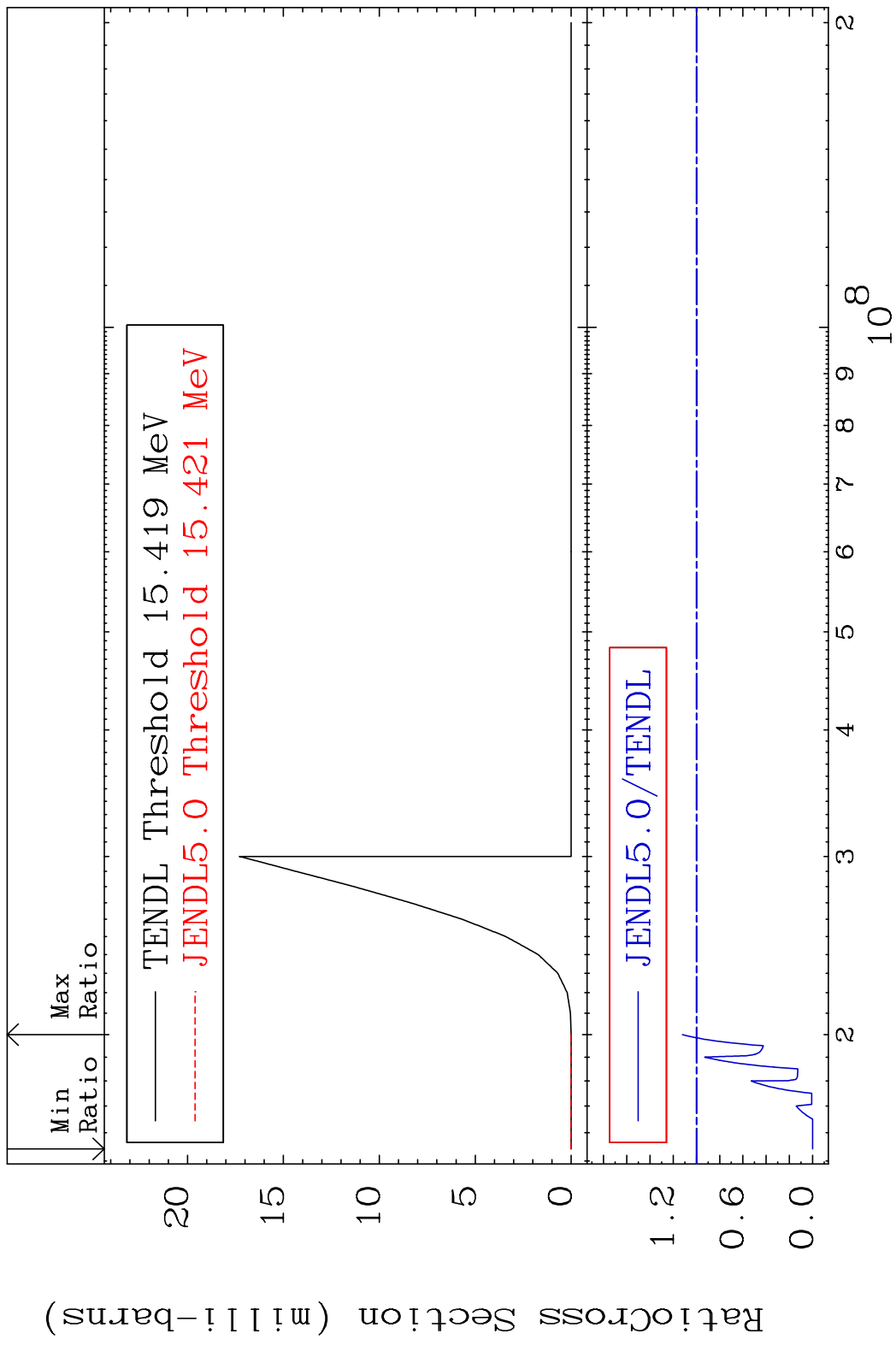
MAT 6425 Dpa disappearance (mt102 -120) 64-Gd-152
 Cross Section -99.67 To 9999. %



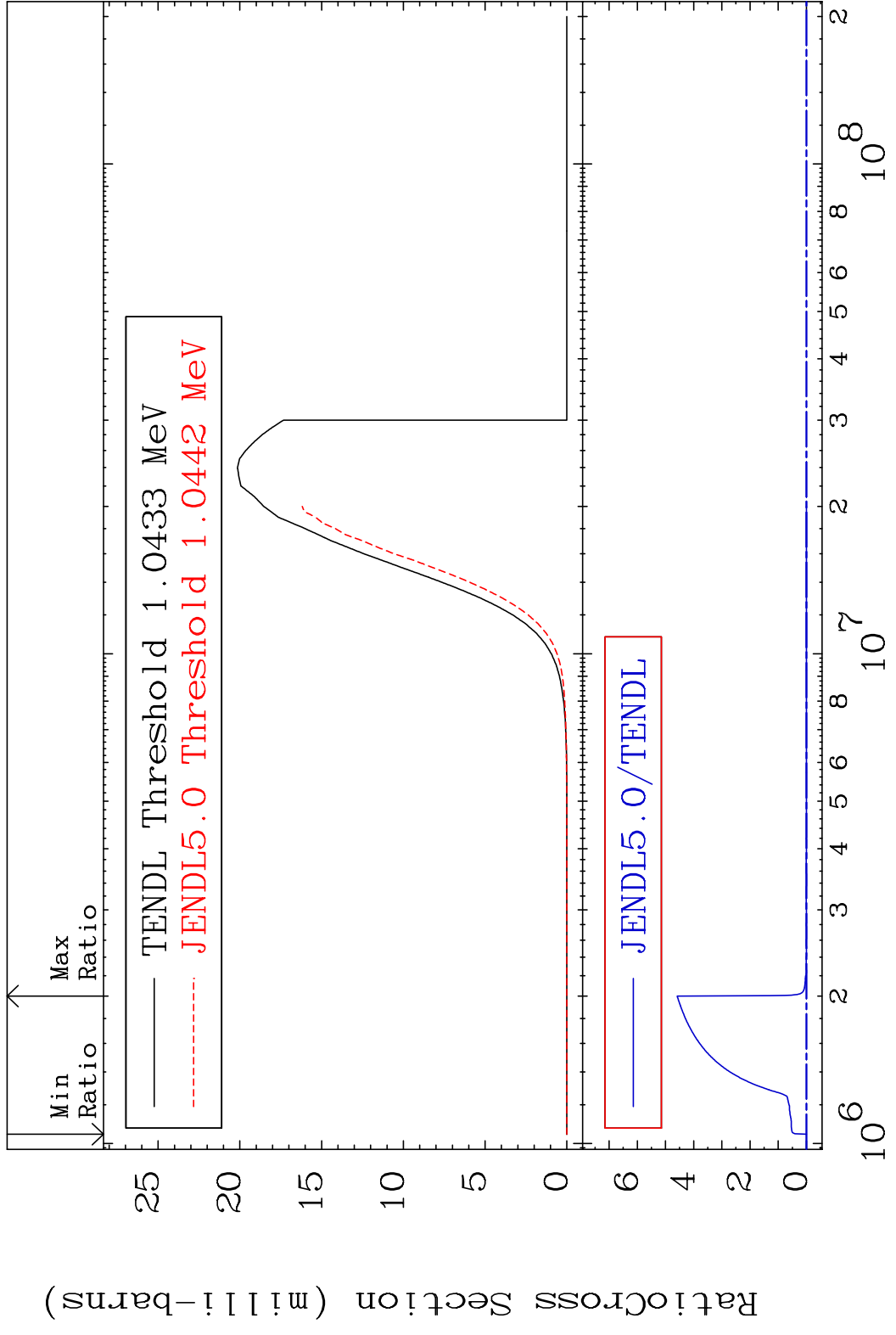








MAT 6425 (n,p):63-Eu-152g 64-Gd-152
 Radionuclide Production Cross Section 100.00 to 9999.0 %



MAT 6425 (n, p) : 63-Eu-152m1 64-Gd-152
 Radionuclide Production Cross Section Ratio 9999. %

