

Program Complot
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

U.S.A.

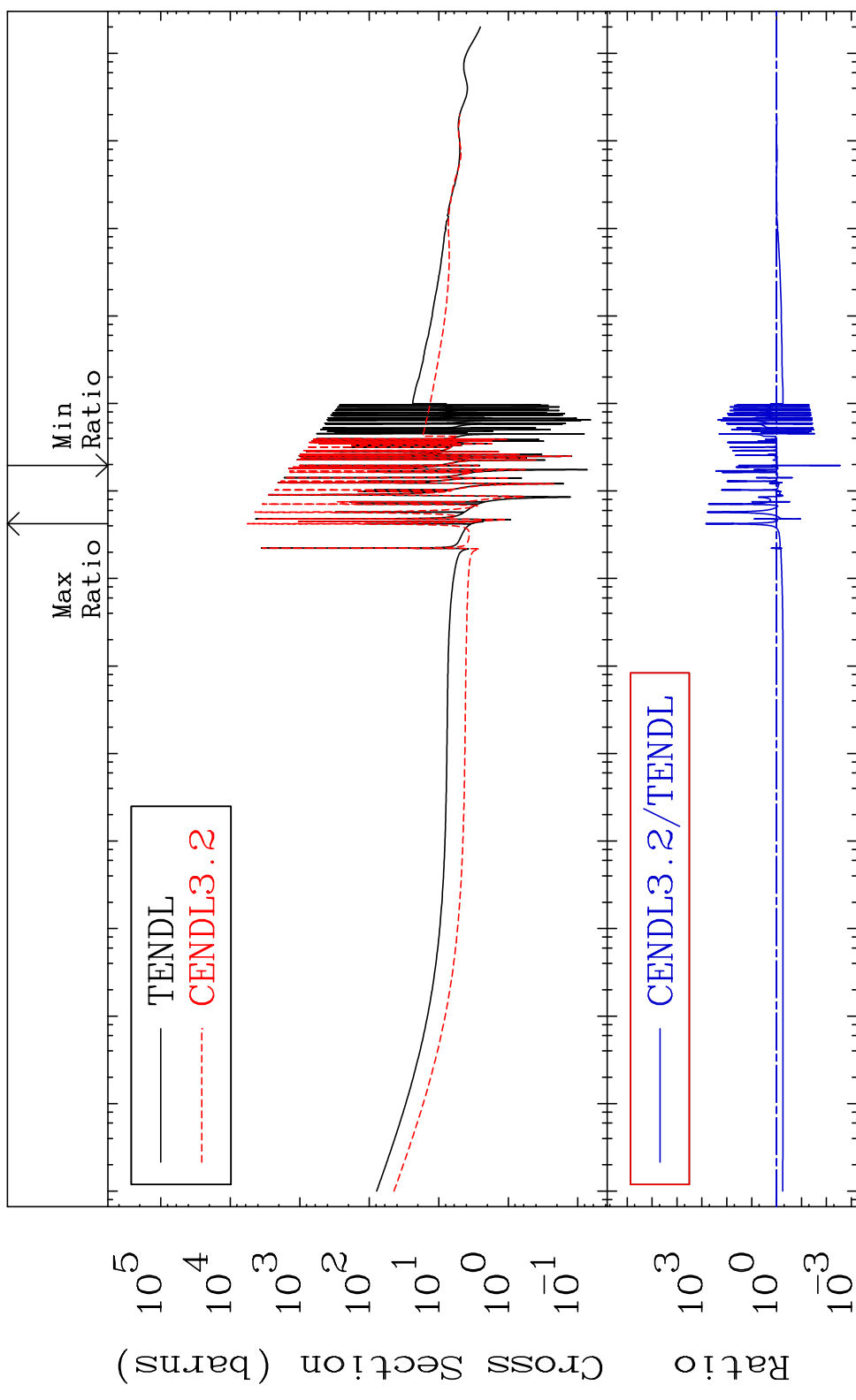
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 6449

Total Cross Section -99.73 To 9999. %
64-Gd-160



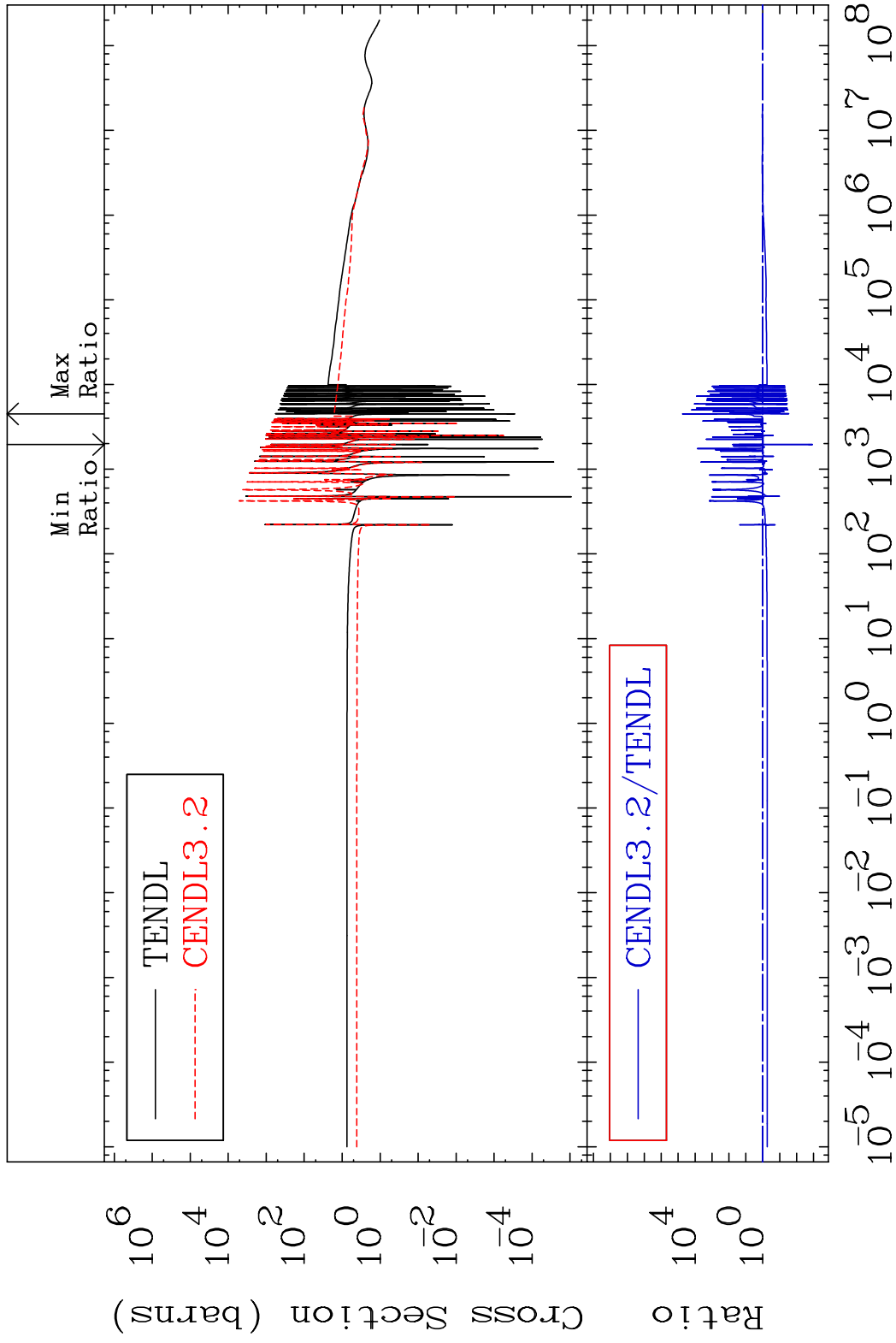
1 Incident Energy (eV) 64-Gd-160

MAT 6449

Elastic

64-Gd-160

Cross Section -99.89 To 9999. %

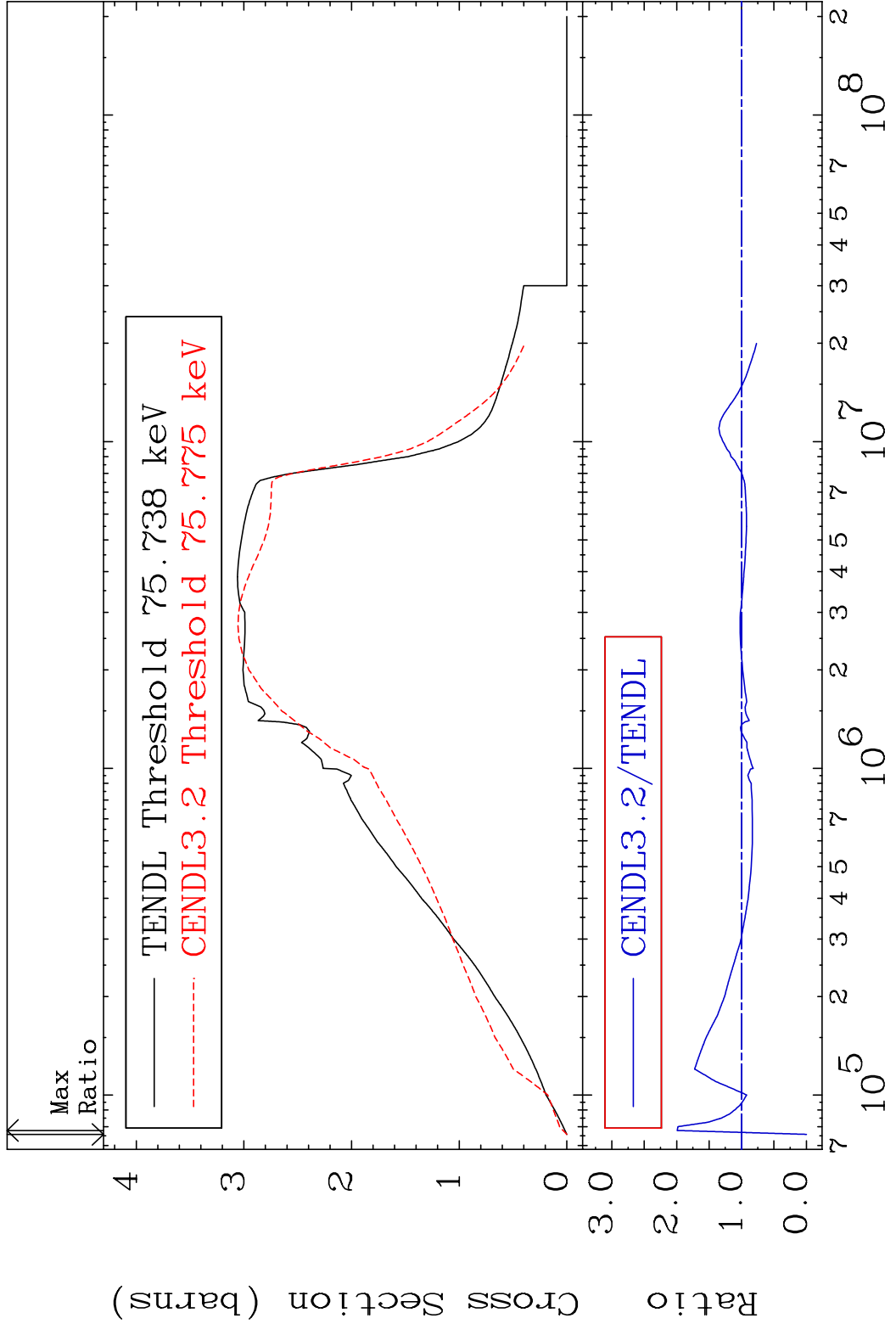


2

Incident Energy (eV)

64-Gd-160

MAT 6449 Inelastic 64-Gd-160
Cross Section -100.0 To 99.19 %



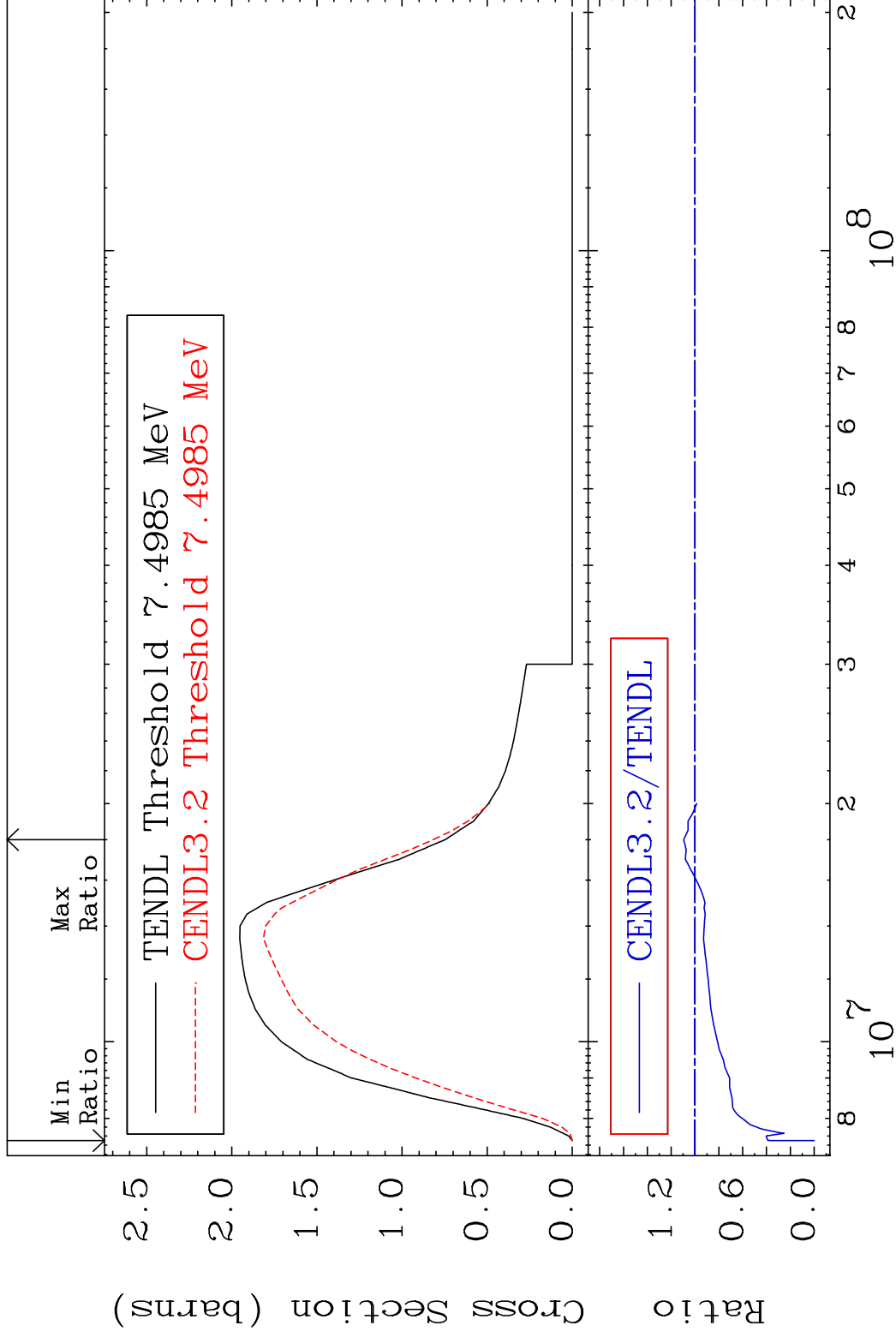
3 Incident Energy (eV) 64-Gd-160

MAT 6449

(n,2n)

64-Gd-160

Cross Section -100.0 To 9.512 %



4

Incident Energy (eV)

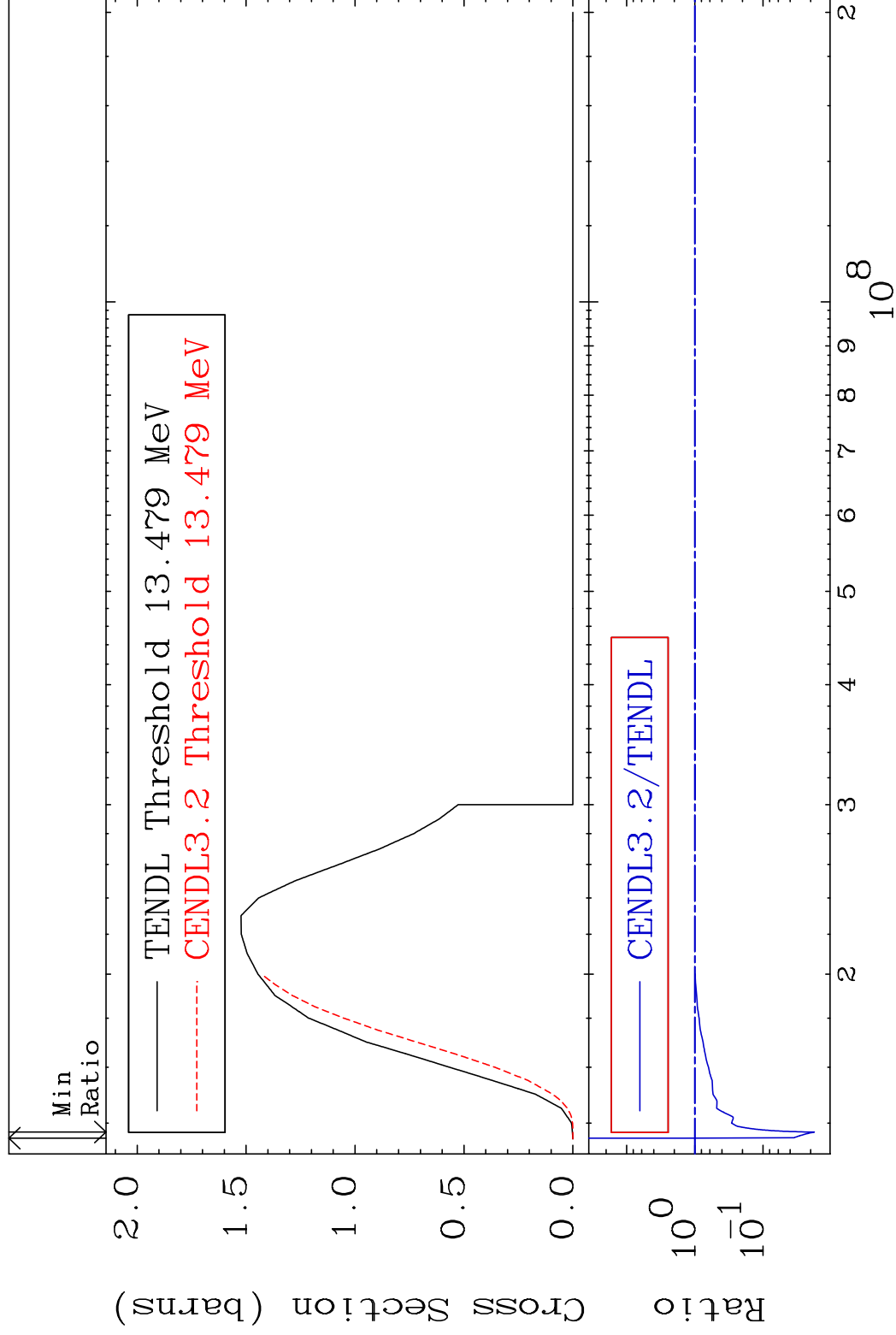
64-Gd-160

MAT 6449

(n,3n)

64-Gd-160

Cross Section -98.22 To 43.90 %



5

Incident Energy (eV)

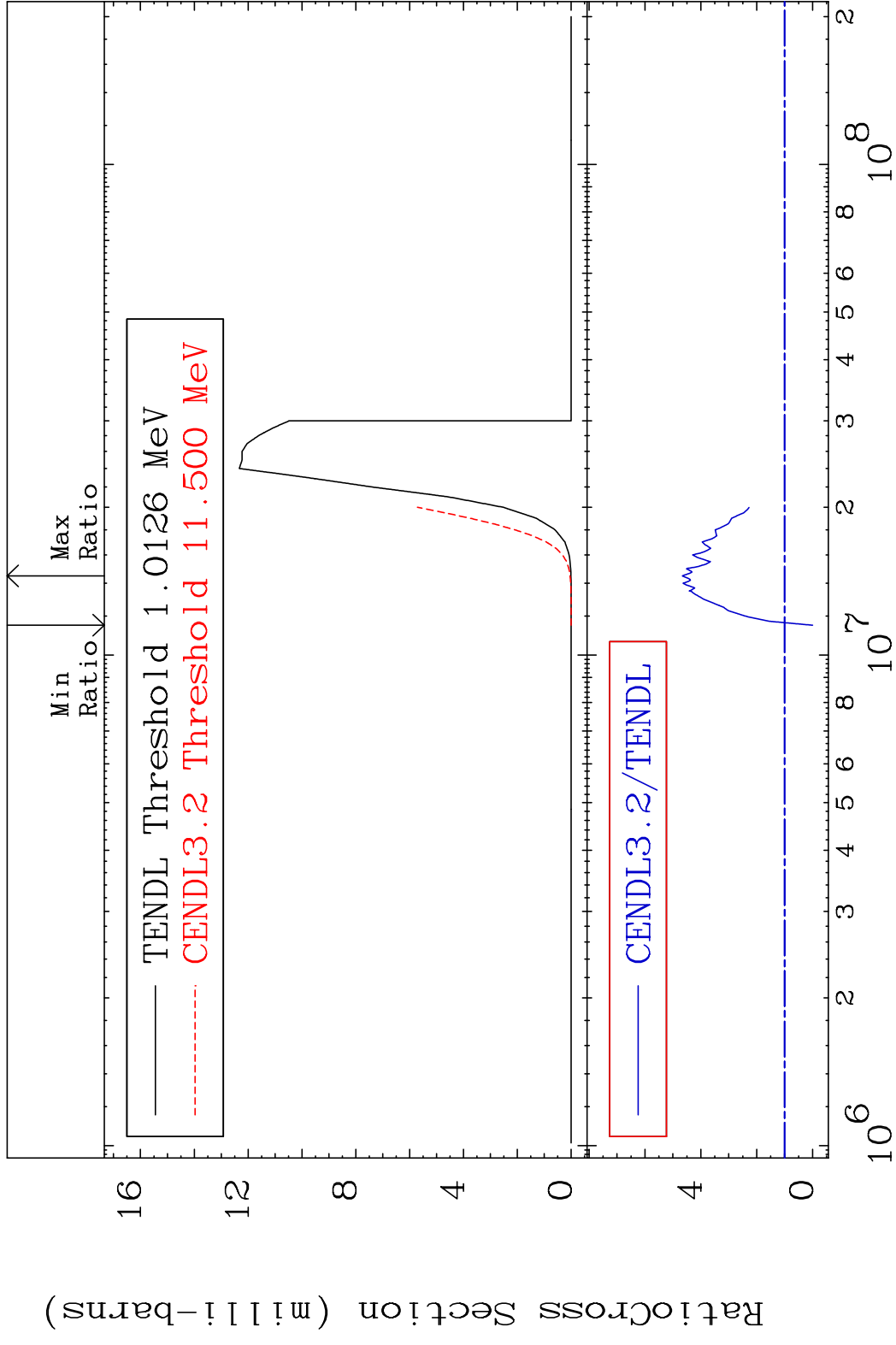
64-Gd-160

MAT 6449

64-Gd-160

(n, n') α

Cross Section -100.0 To 366.2 %



6

Incident Energy (eV)

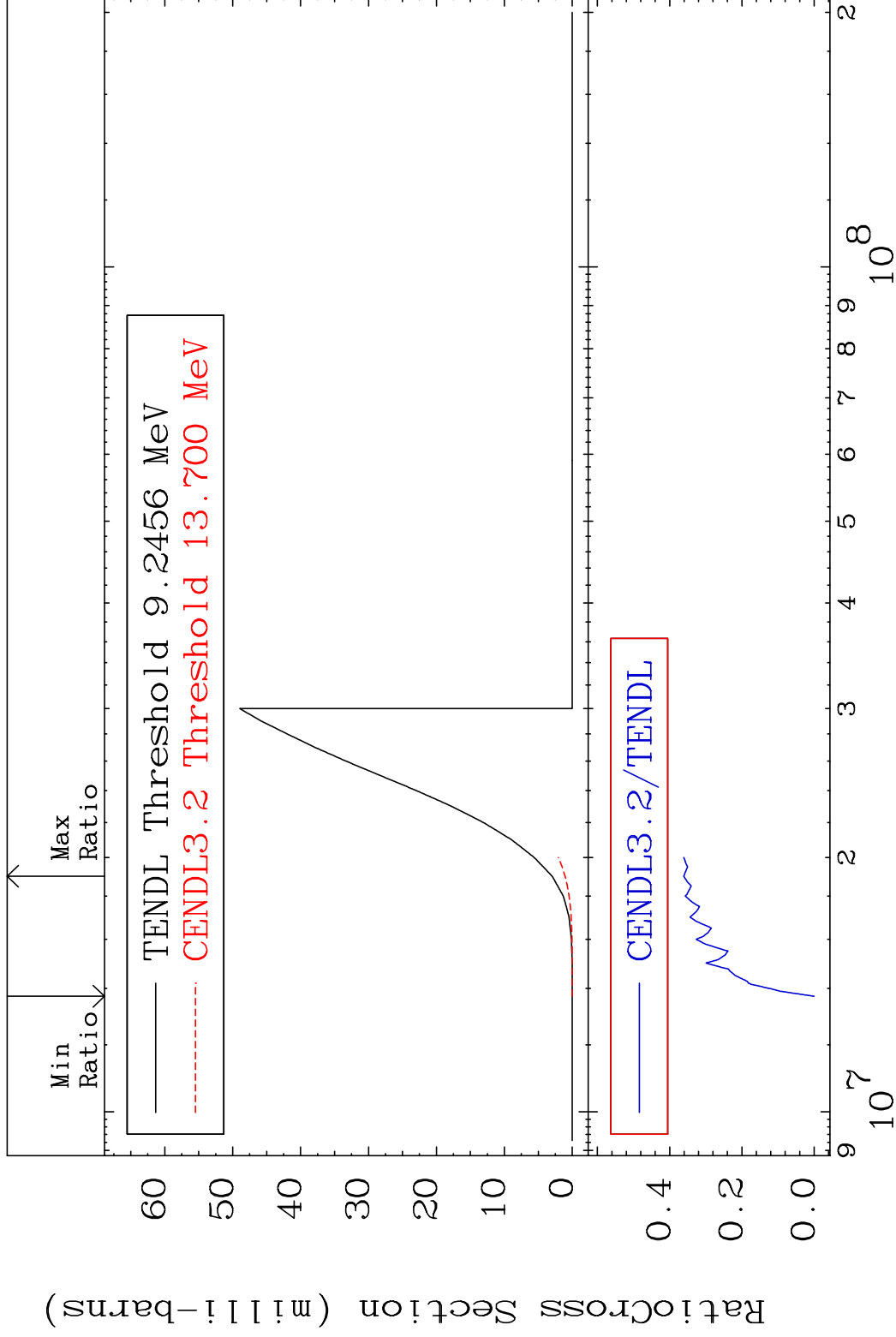
64-Gd-160

MAT 6449

(n, n') p

64-Gd-160

Cross Section -100.0 To -63.88%

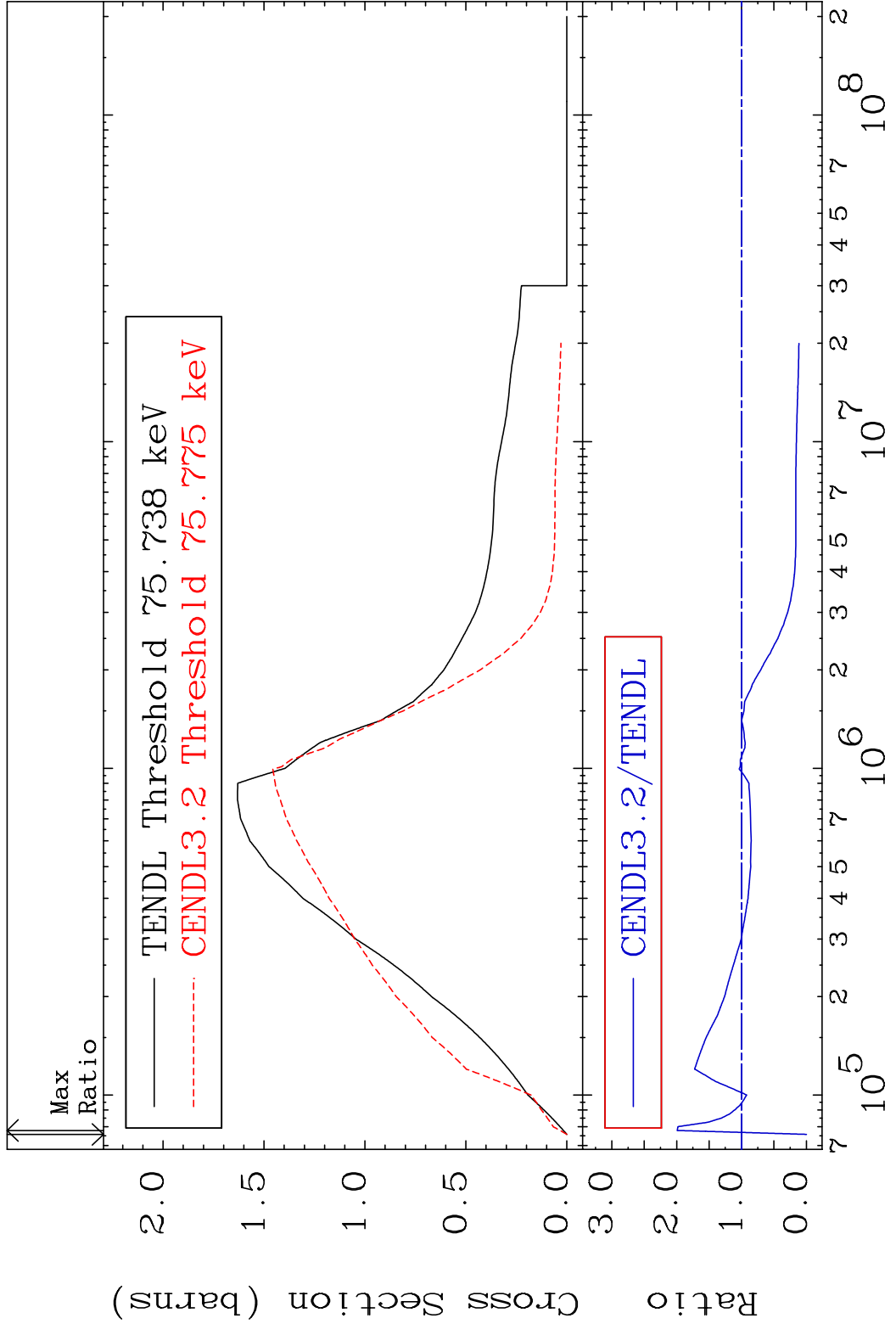


7

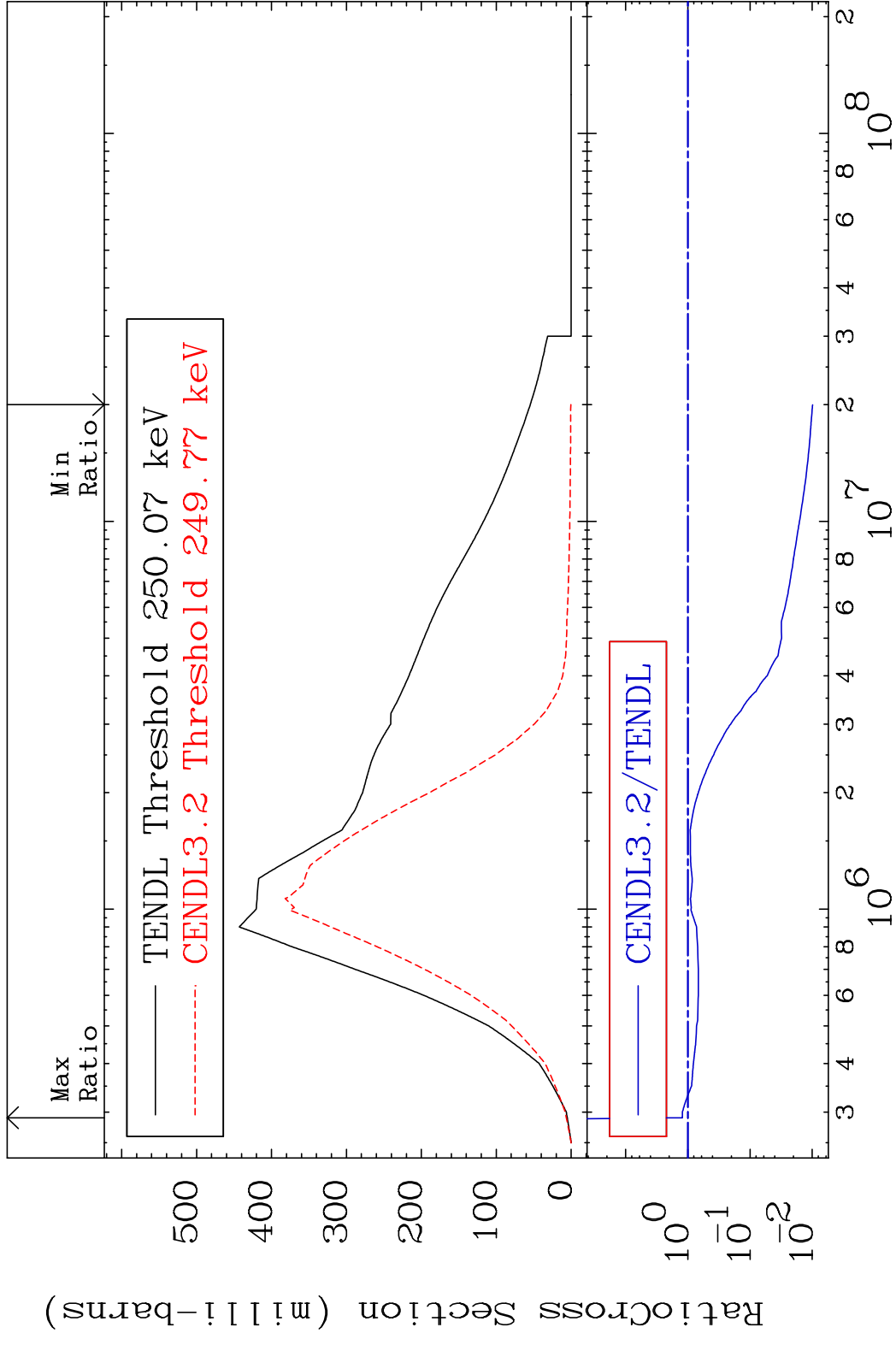
Incident Energy (eV)

64-Gd-160

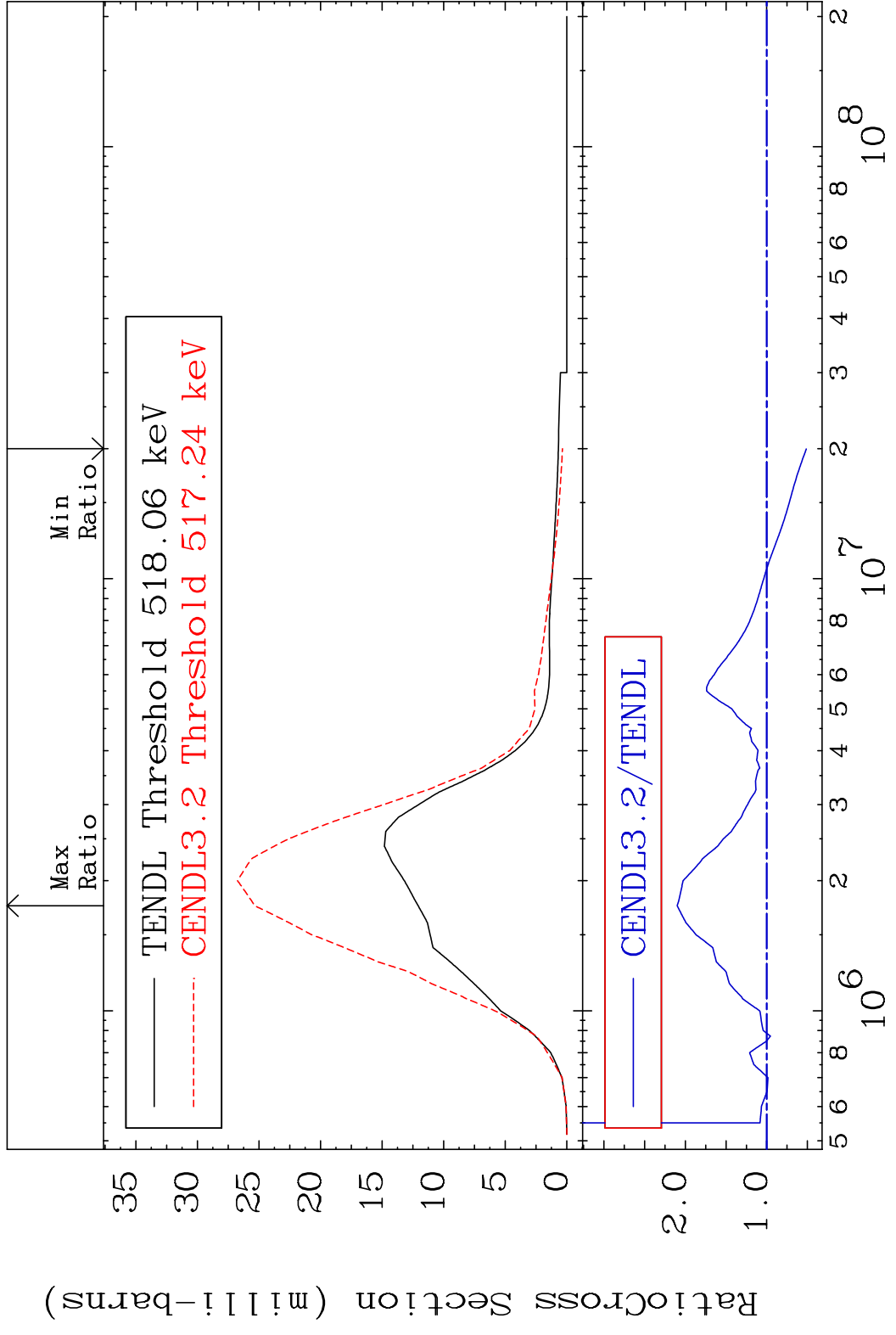
MAT 6449 MT= 51 (n,n') Level 64-Gd-160
 Cross Section -100.0 To 99.19 %



MAT 6449 MT= 52 (n, n') Level 64-Gd-160
 Cross Section -99.01 To 22.58 %

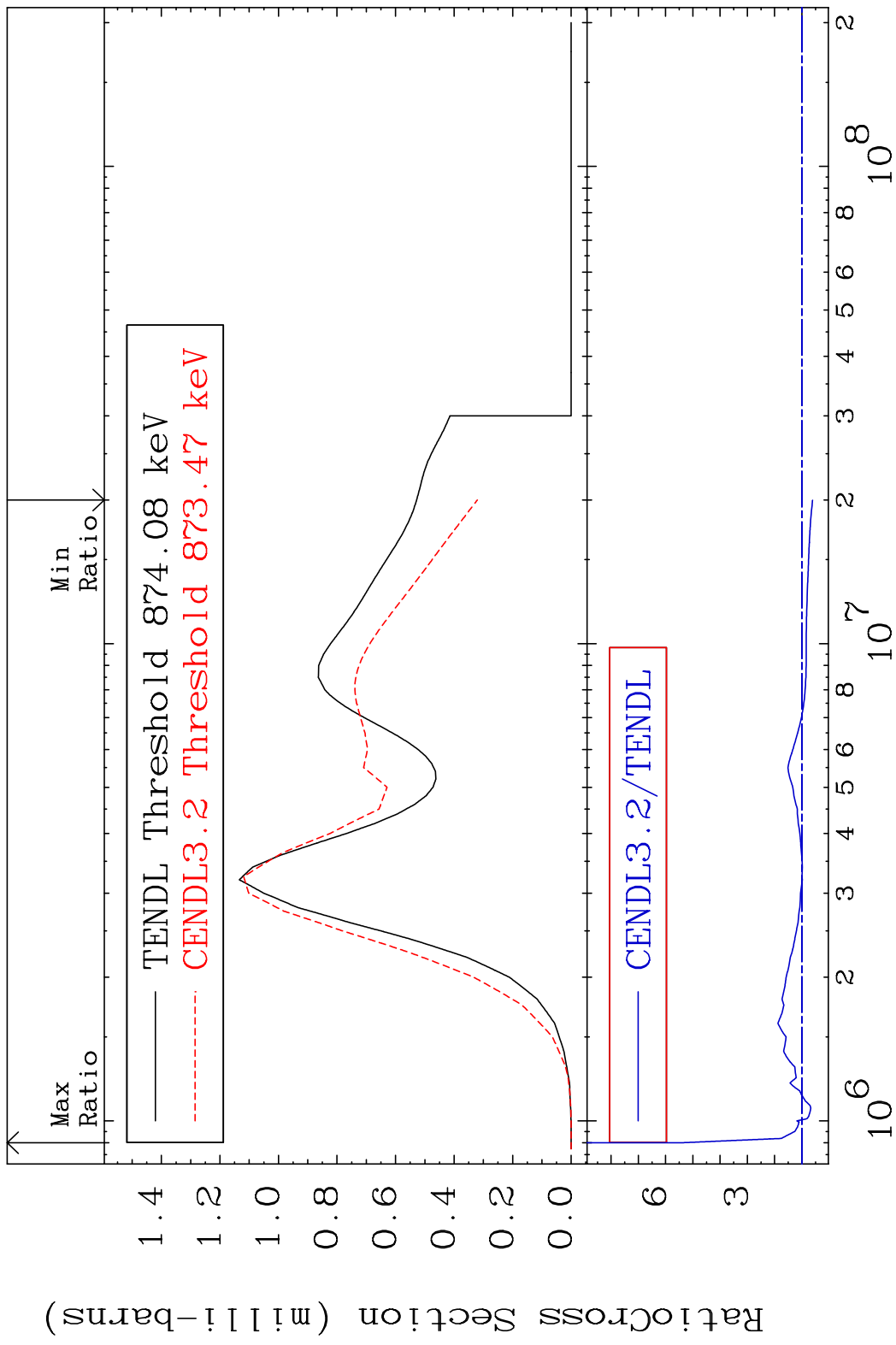


MAT 6449 MT= 53 (n, n') Level 64-Gd-160
 Cross Section -48.71 To 109.9 %



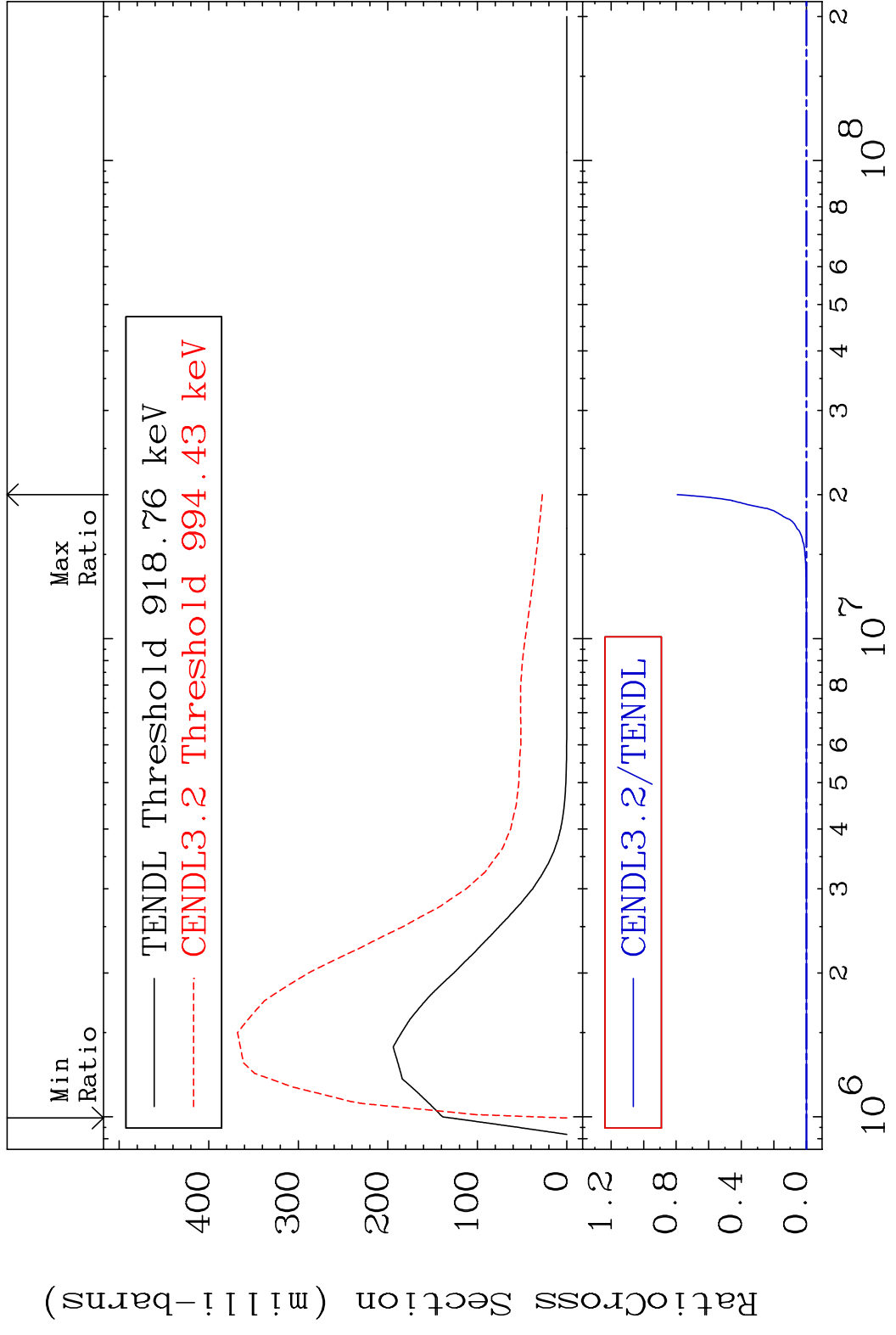
10 Incident Energy (eV) 64-Gd-160

MAT 6449 MT= 54 (n, n') Level 64-Gd-160
 Cross Section -39.25 To 438.6 %



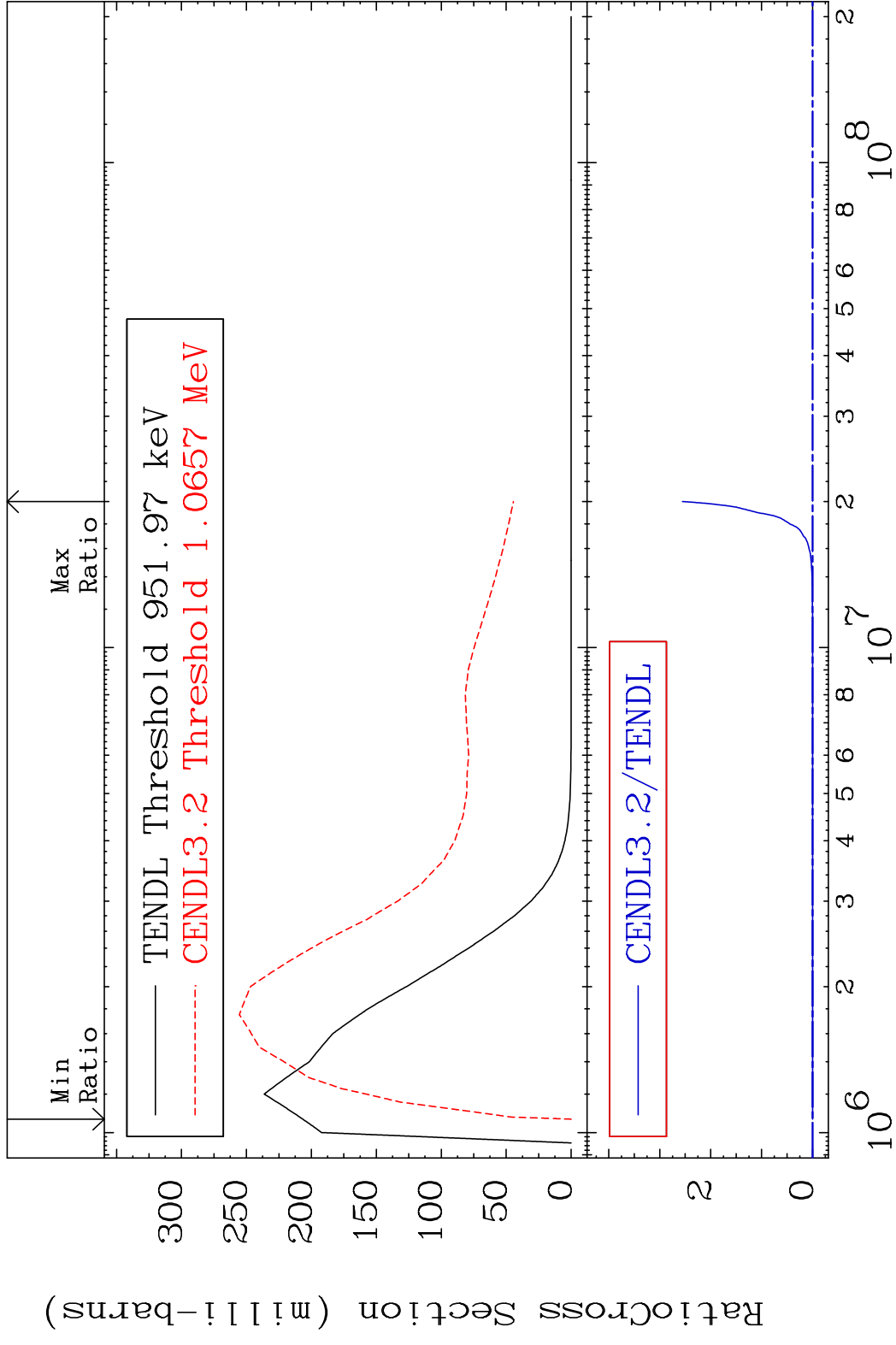
11 Incident Energy (eV) 64-Gd-160

MAT 6449 MT= 55 (n, n') Level 64-Gd-160
 Cross Section -100.0 To 9999. %



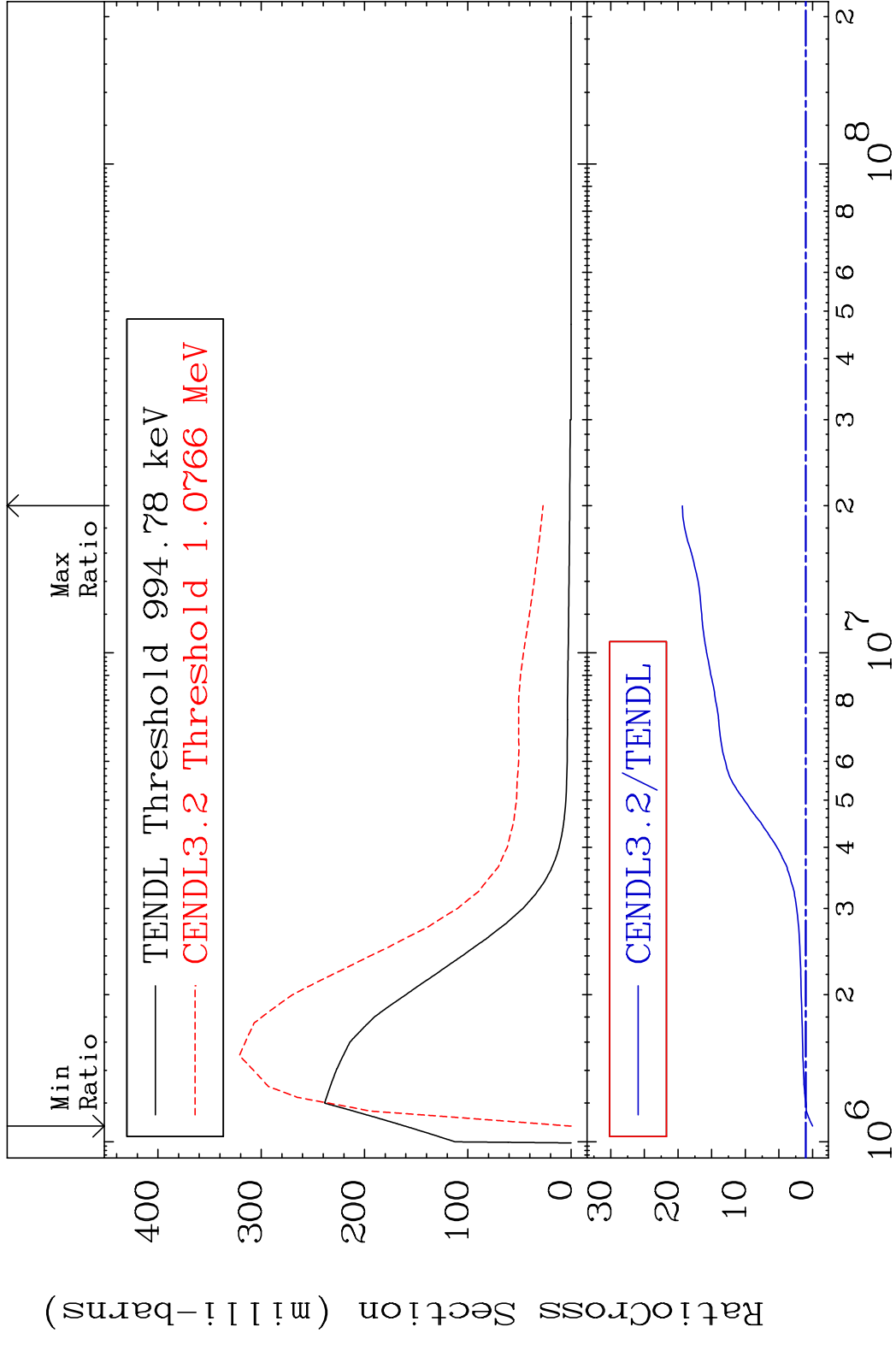
12 64-Gd-160

MAT 6449 MT= 56 (n, n') Level 64-Gd-160
 Cross Section -100.0 To 9999. %



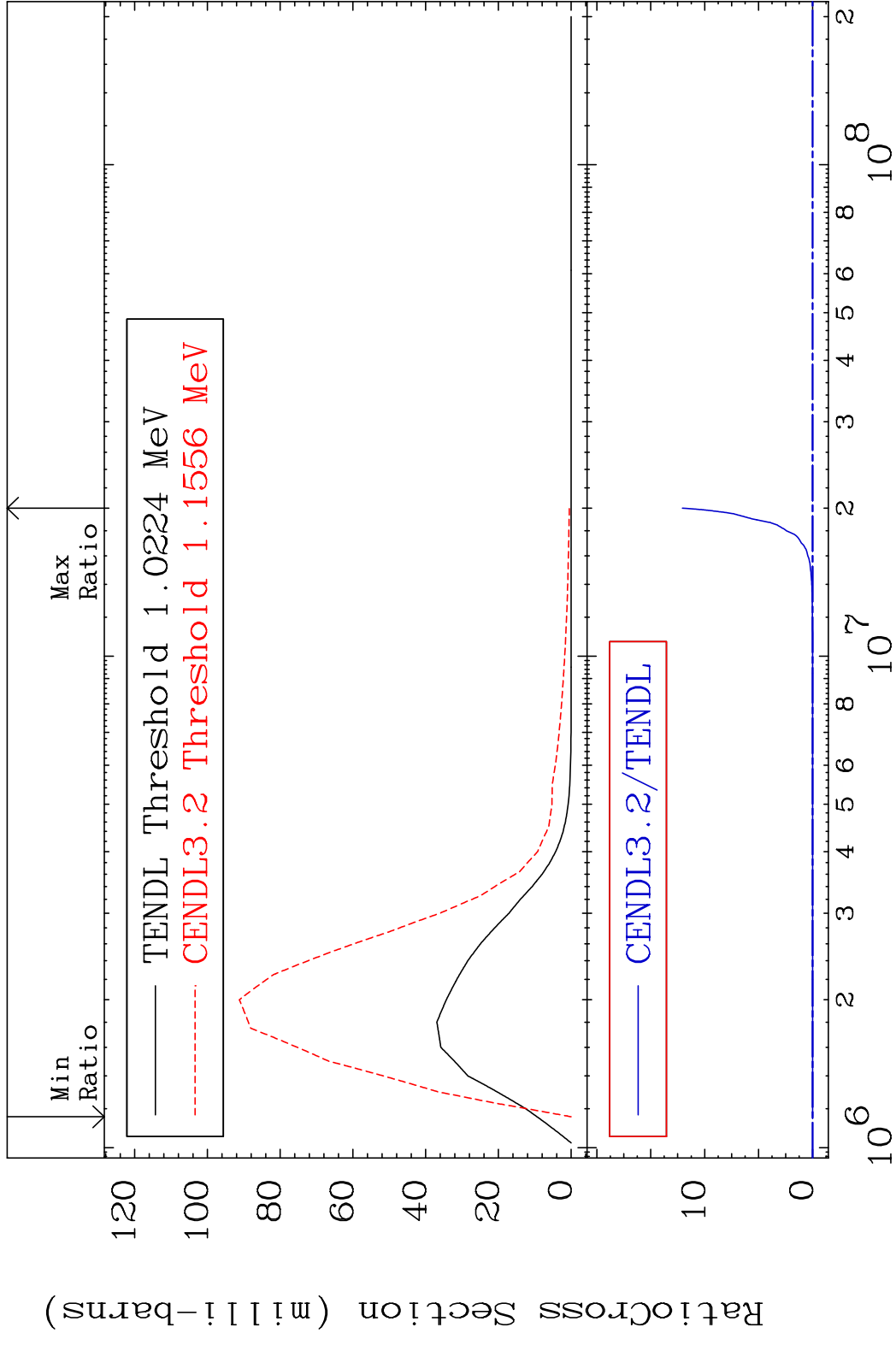
13 Incident Energy (eV) 64-Gd-160

MAT 6449 MT= 57 (n, n') Level 64-Gd-160
 Cross Section -100.0 To 1835. %



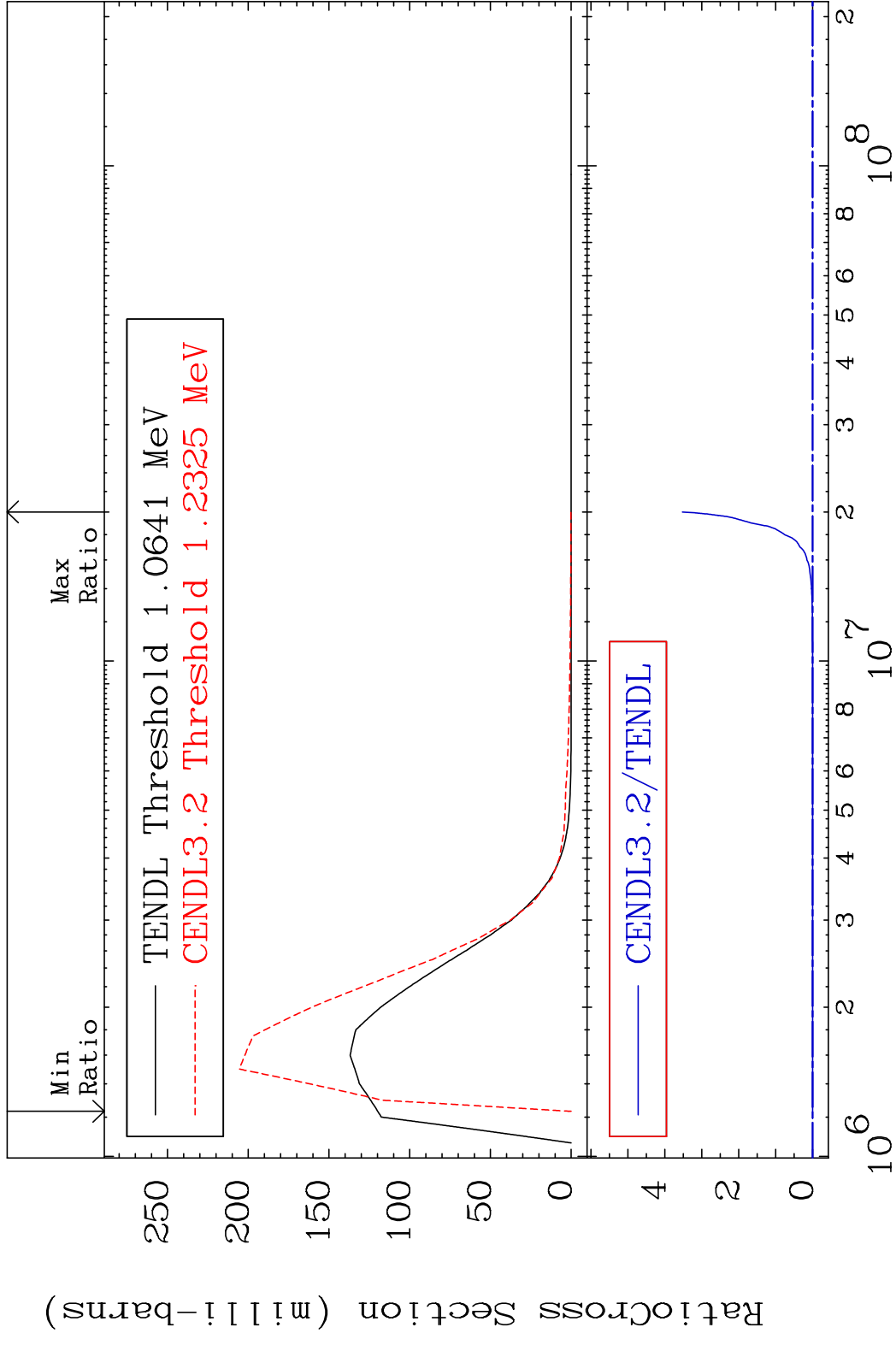
14 64-Gd-160

MAT 6449 MT= 58 (n, n') Level 64-Gd-160
 Cross Section -100.0 To 9999. %



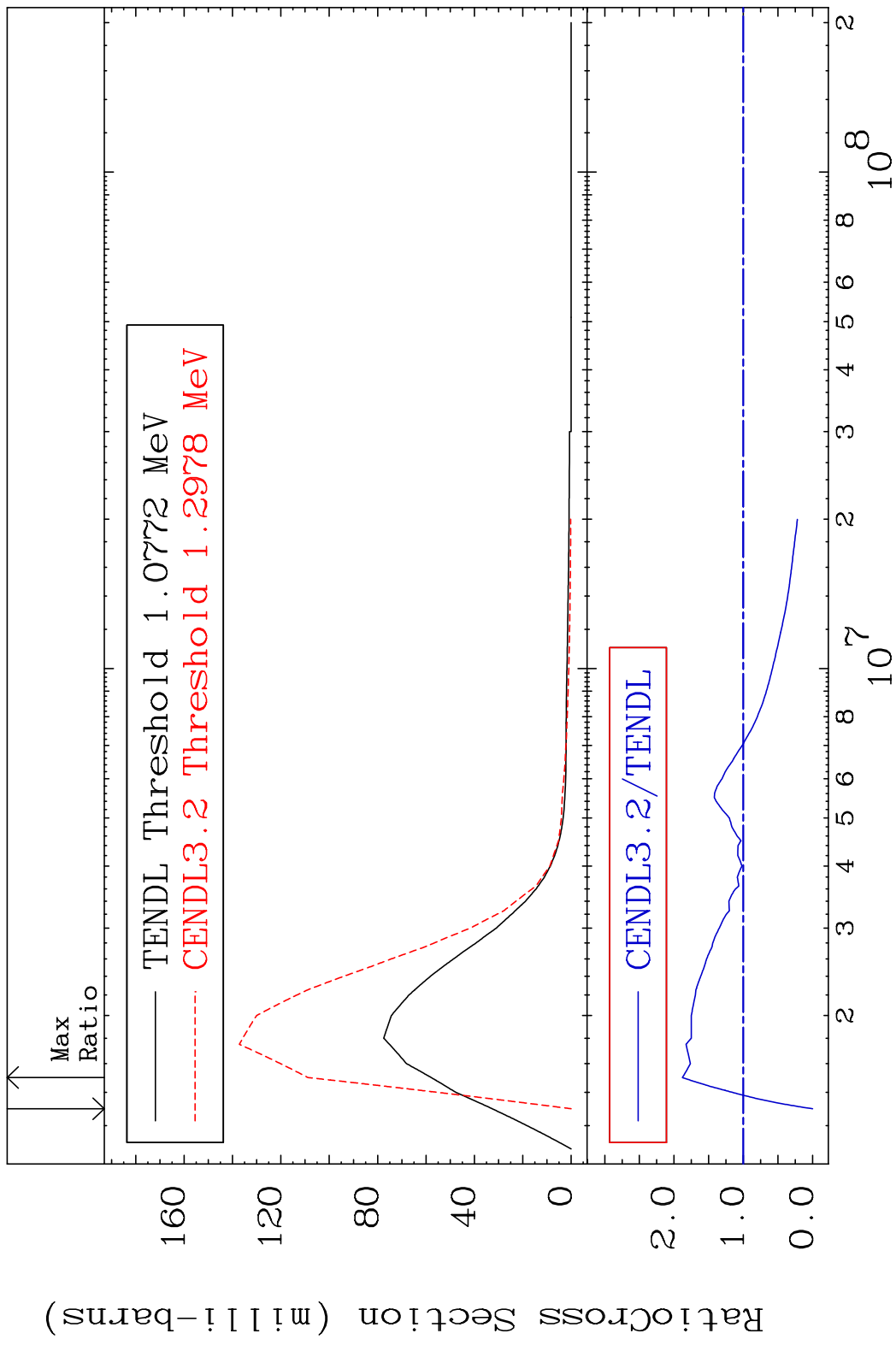
15 Incident Energy (eV) 64-Gd-160

MAT 6449 MT= 59 (n, n') Level 64-Gd-160
 Cross Section -100.0 To 9999. %



16 Incident Energy (eV) 64-Gd-160

MAT 6449 MT= 60 (n,n') Level 64-Gd-160
 Cross Section -100.0 To 87.98 %



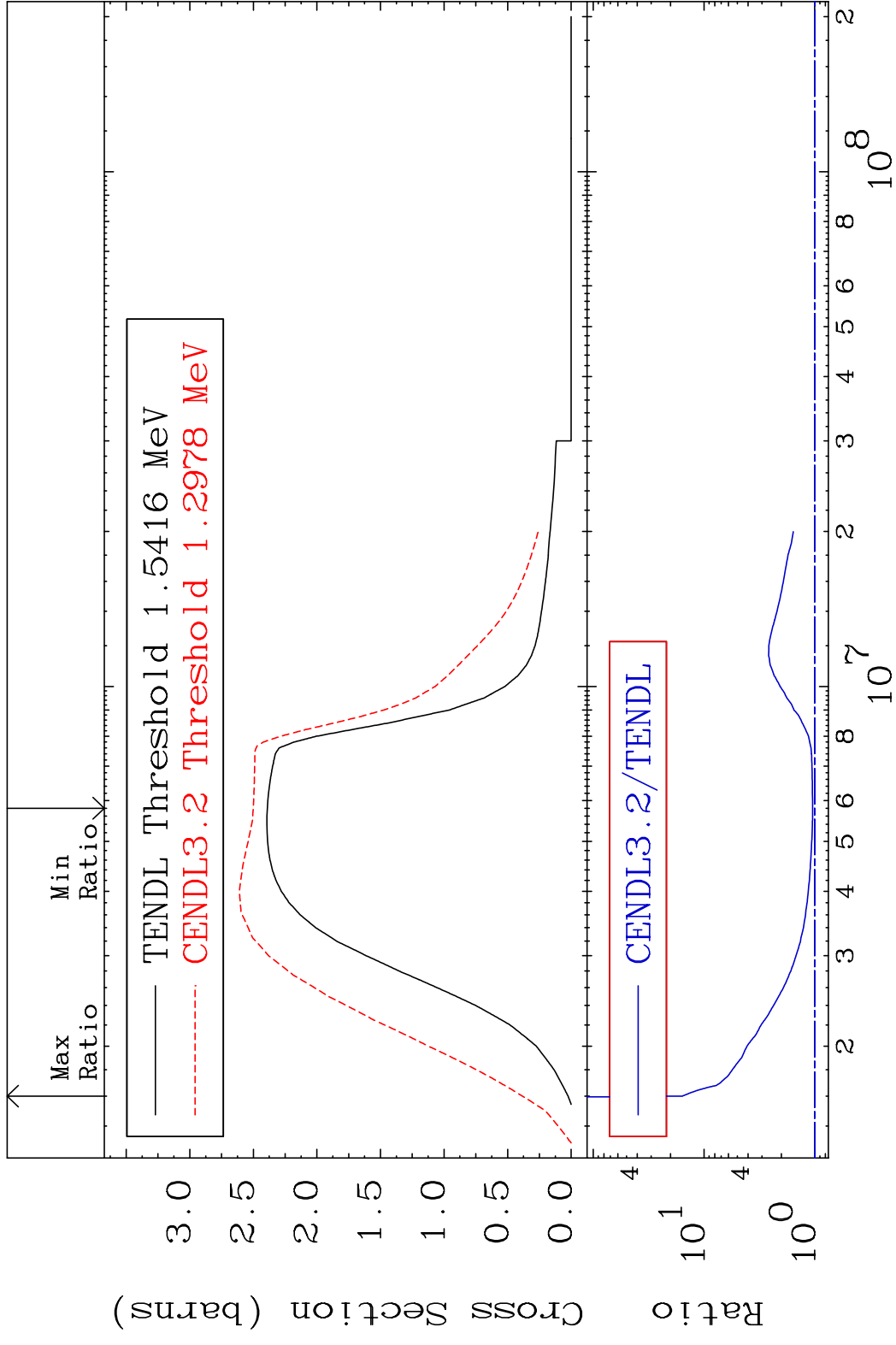
MAT 6449

(n, n') Continuum

64-Gd-160

Cross Section

4.644 To 1467. %

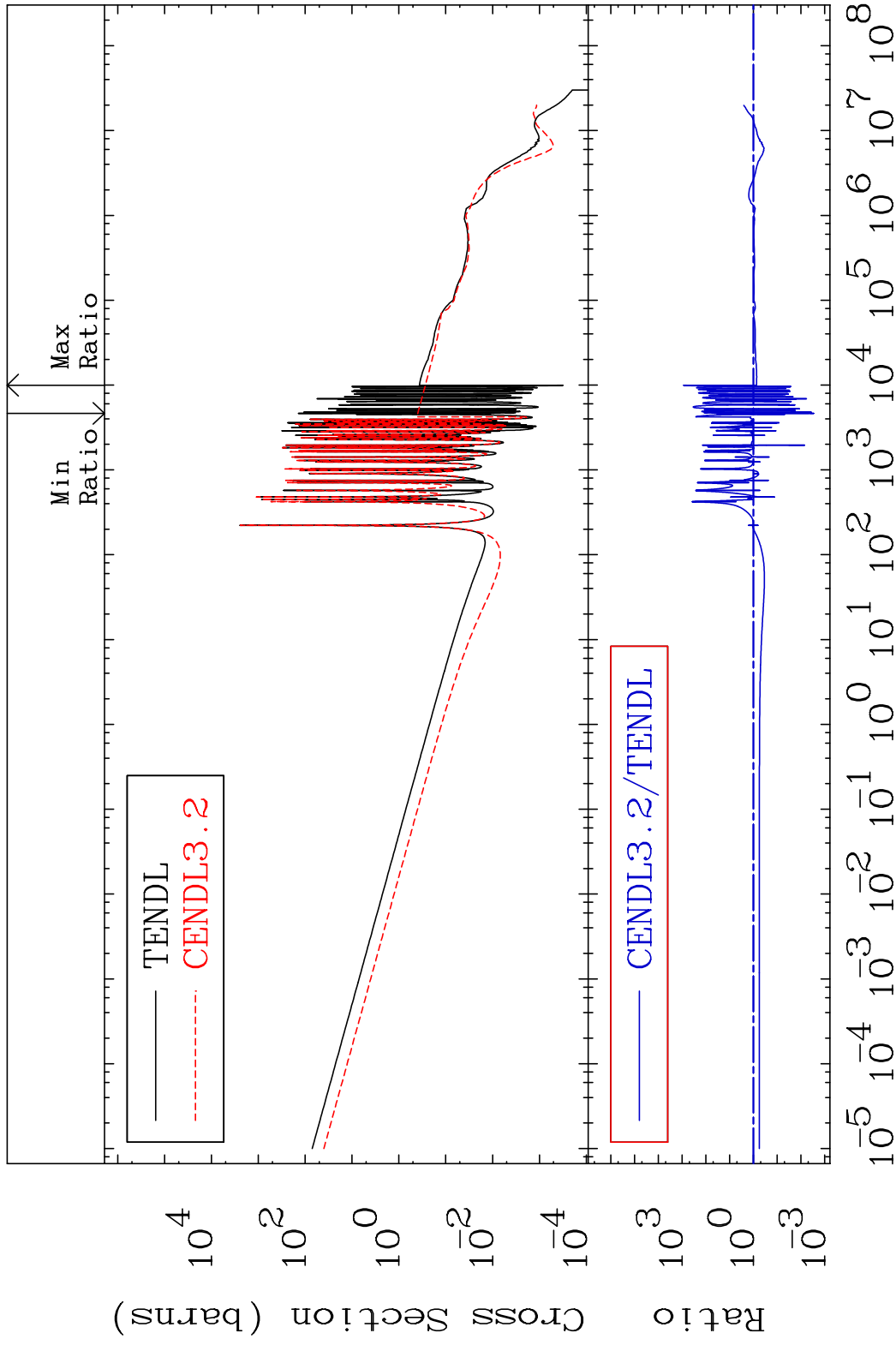


MAT 6449

(n, γ)

64-Gd-160

Cross Section -99.72 To 9999. %



19

Incident Energy (eV)

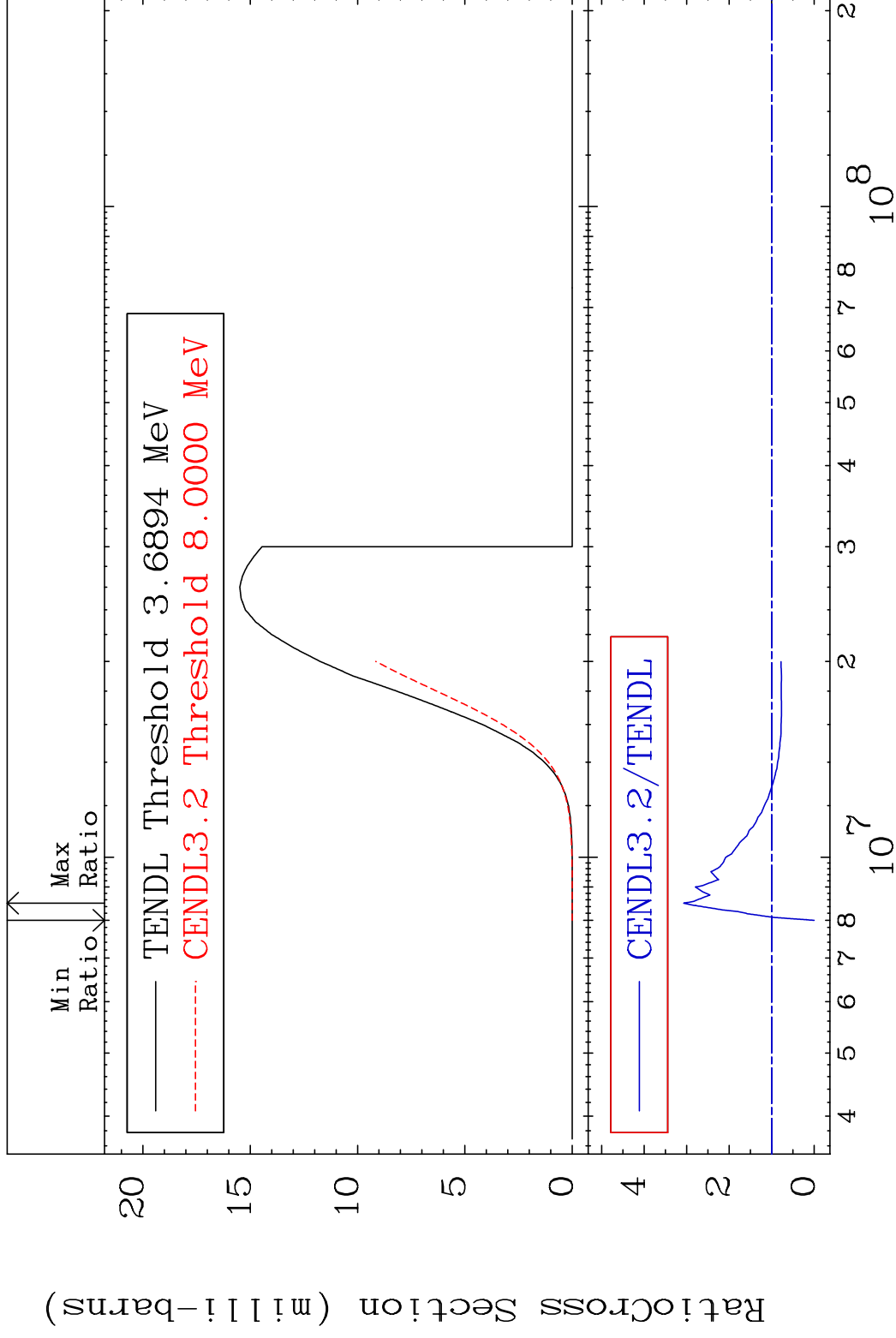
64-Gd-160

MAT 6449

(n,p)

64-Gd-160

Cross Section -100.0 To 206.9 %



20

Incident Energy (eV)

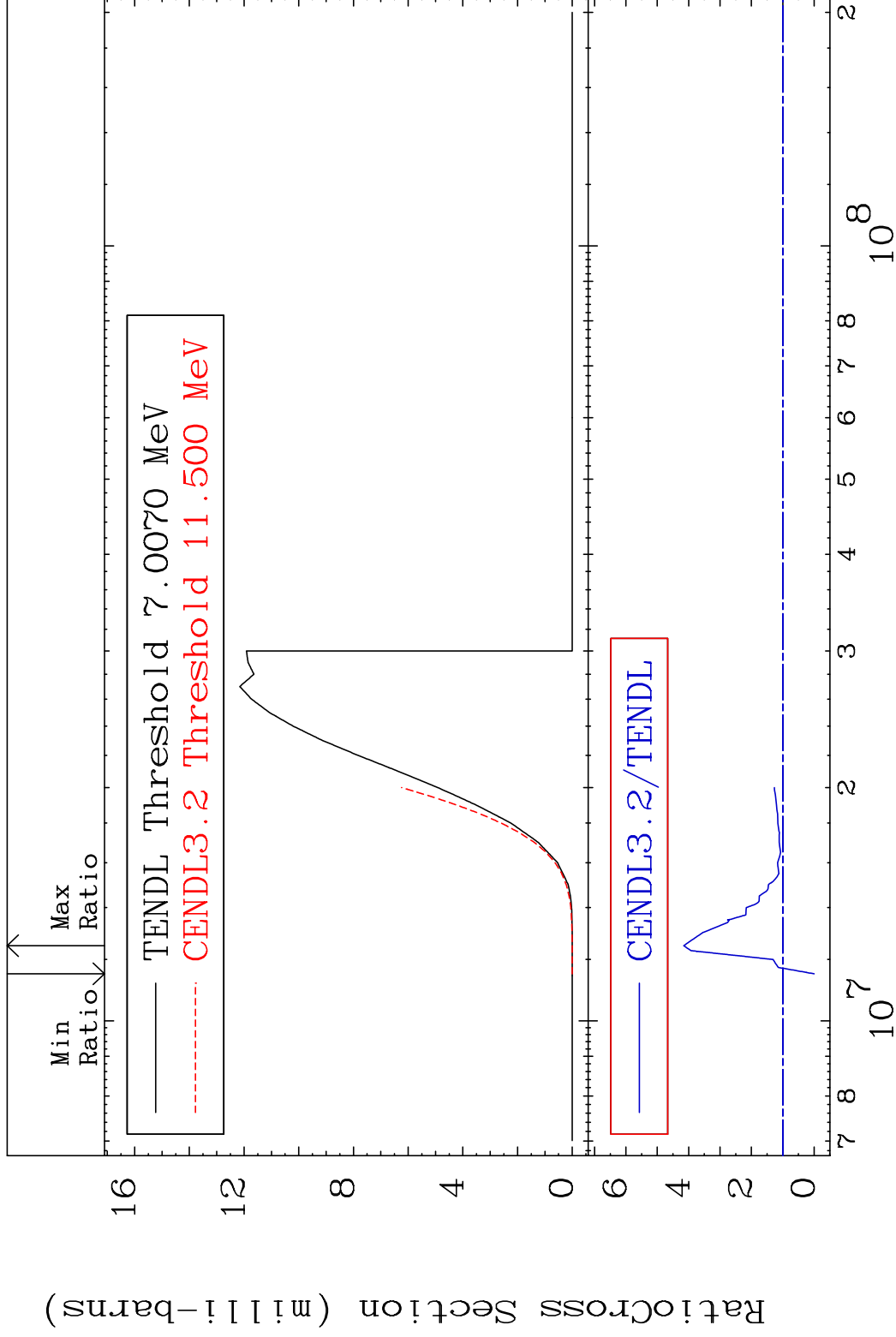
64-Gd-160

MAT 6449

(n,d)

64-Gd-160

Cross Section -100.0 To 316.0 %



21

Incident Energy (eV)

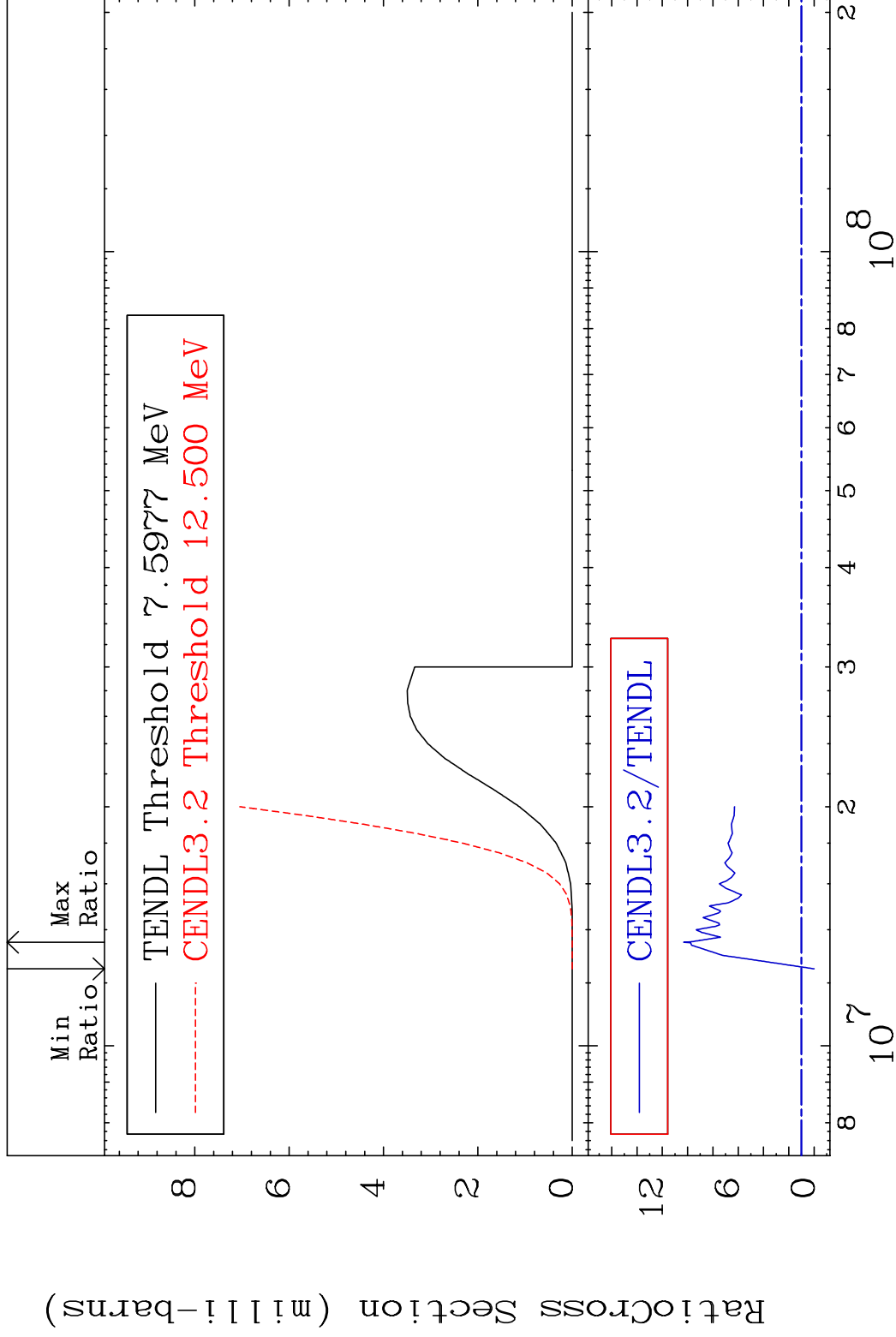
64-Gd-160

MAT 6449

(n, t)

64-Gd-160

Cross Section -100.0 To 931.2 %



22

Incident Energy (eV)

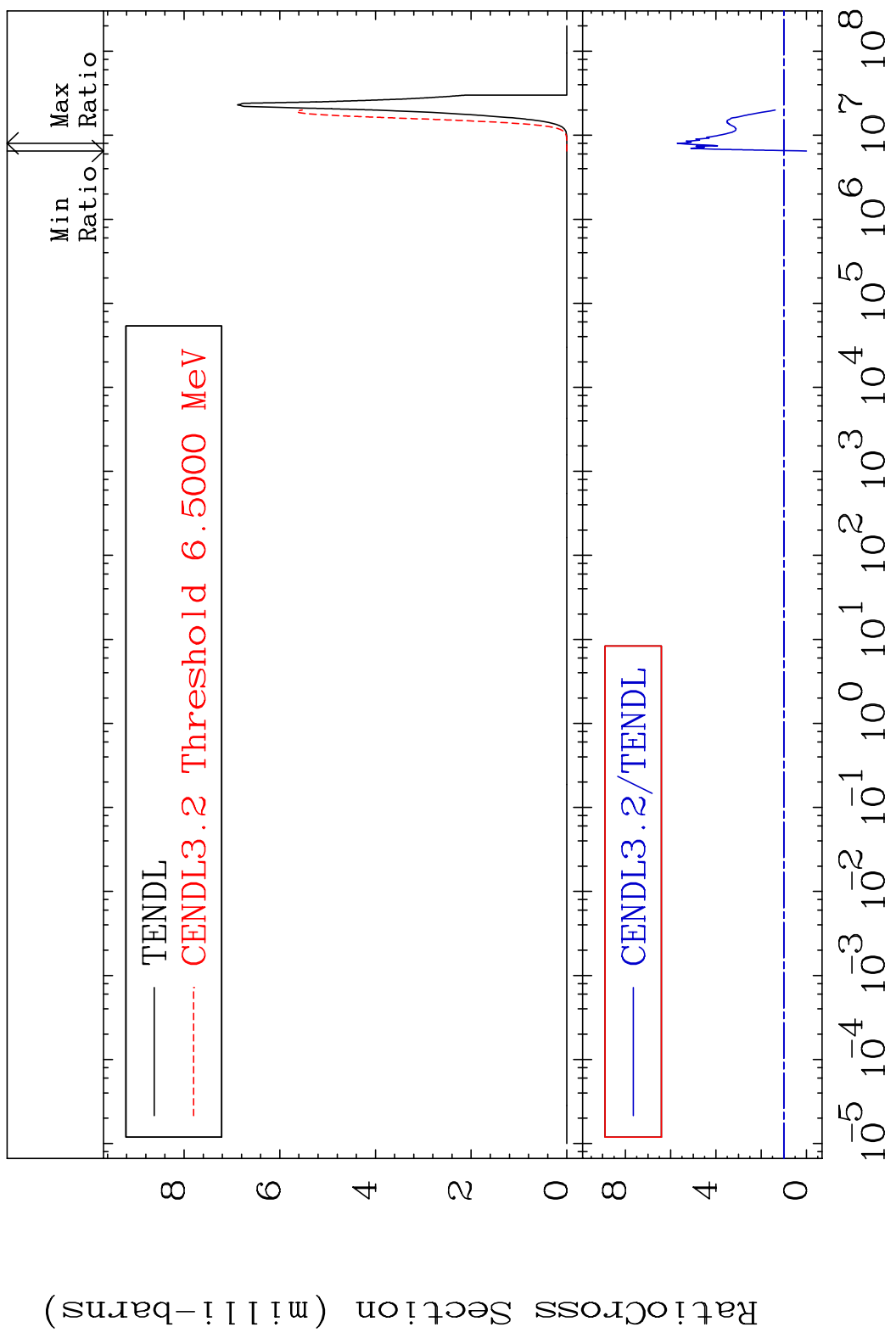
64-Gd-160

MAT 6449

(n, α)

64-Gd-160

Cross Section -100.0 To 470.7 %



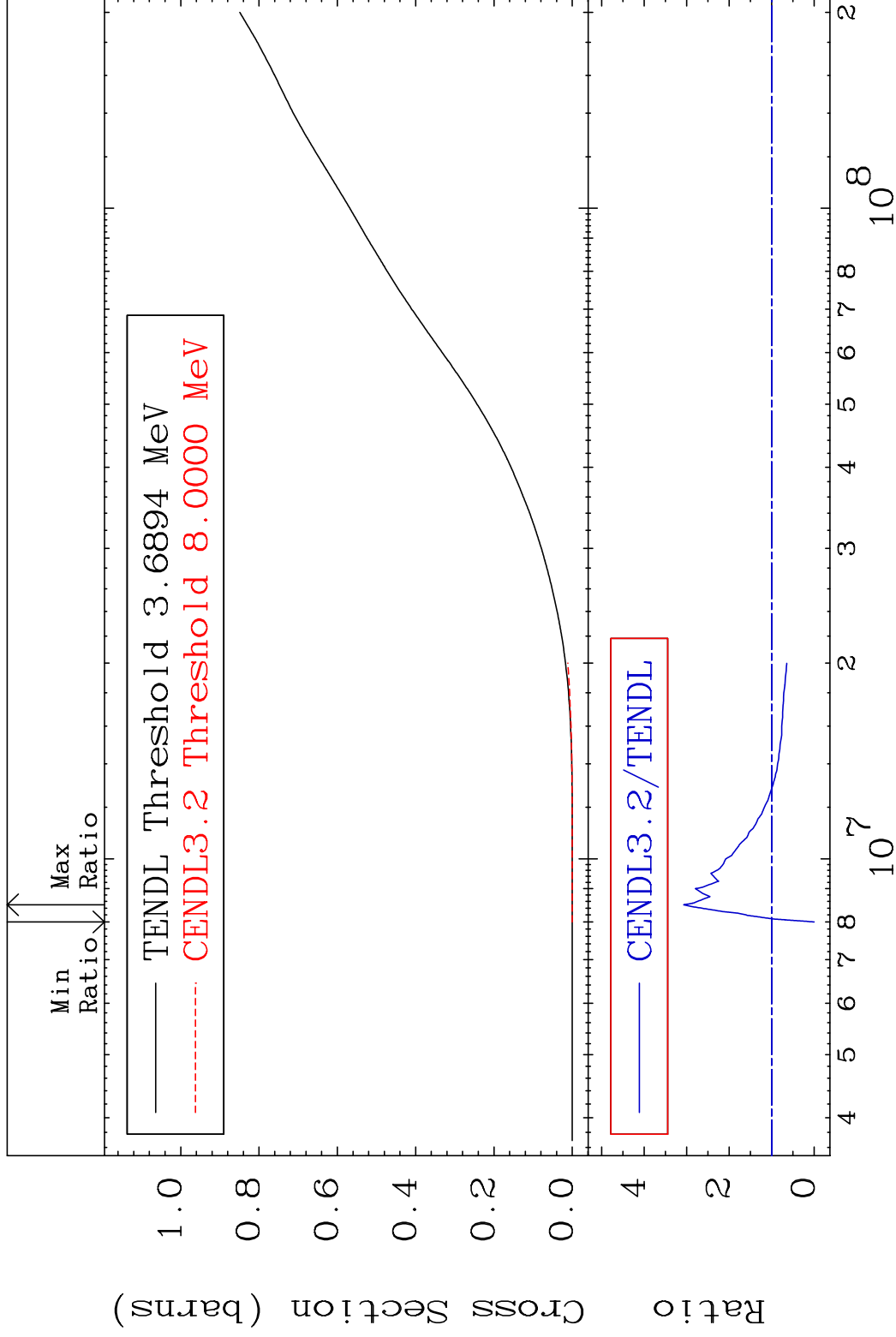
23

Incident Energy (eV)

64-Gd-160

MAT 6449

Hydrogen Production 64-Gd-160
Cross Section -100.0 To 206.9 %

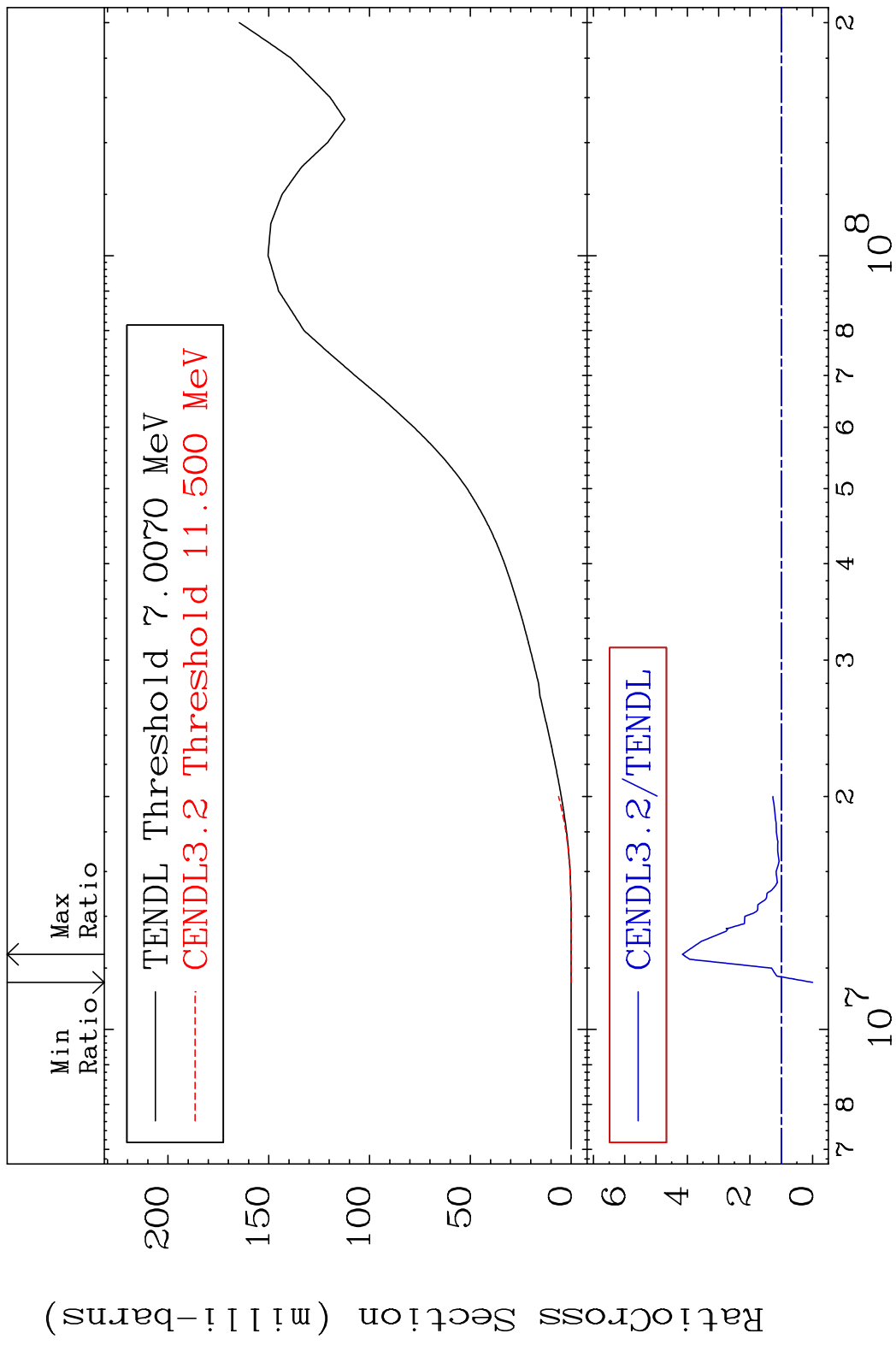


24

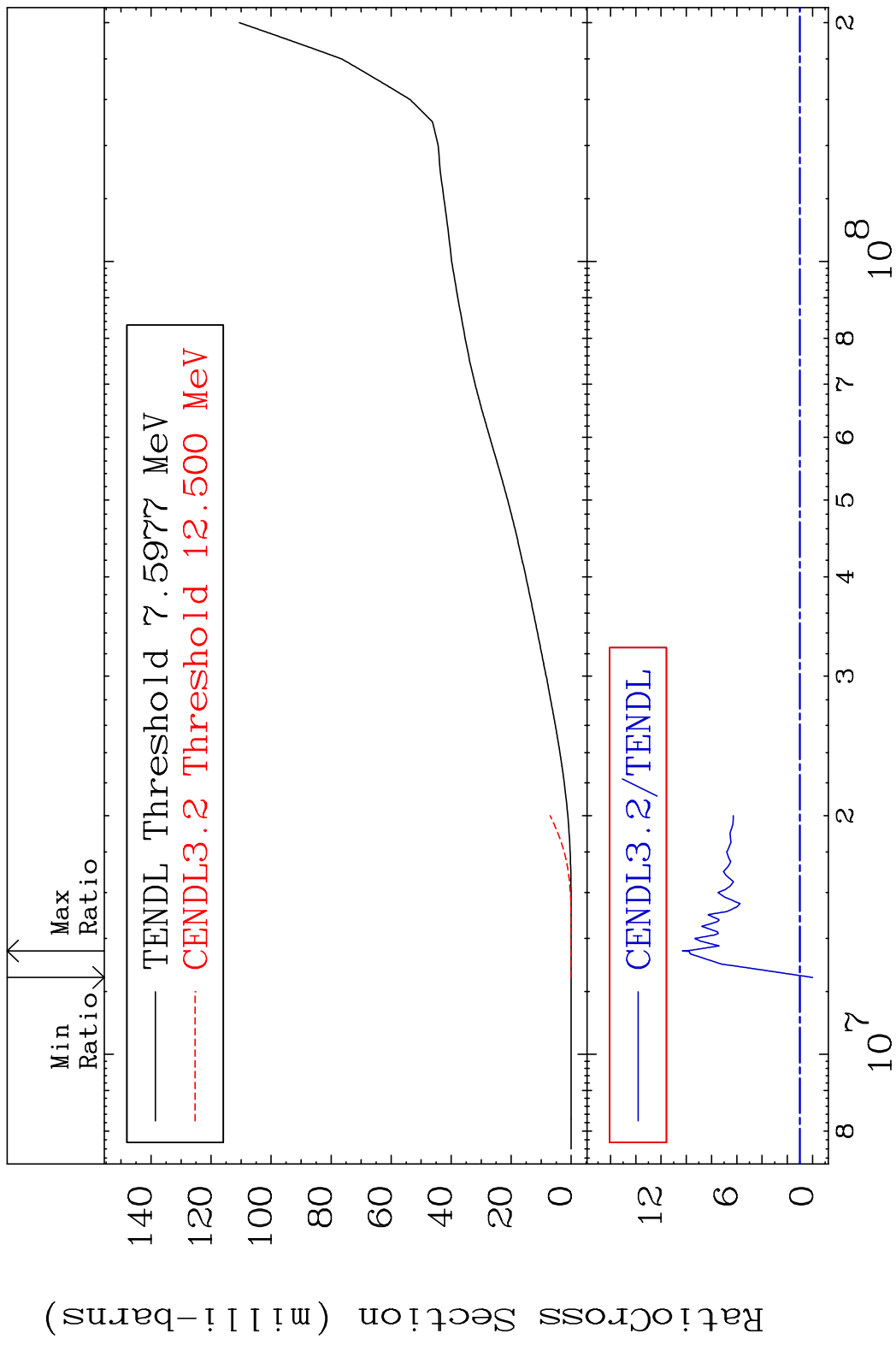
Incident Energy (eV)

64-Gd-160

MAT 6449 Deuterium Production 64-Gd-160
 Cross Section -100.0 To 316.0 %



MAT 6449 Tritium Production 64-Gd-160
 Cross Section -100.0 To 931.2 %

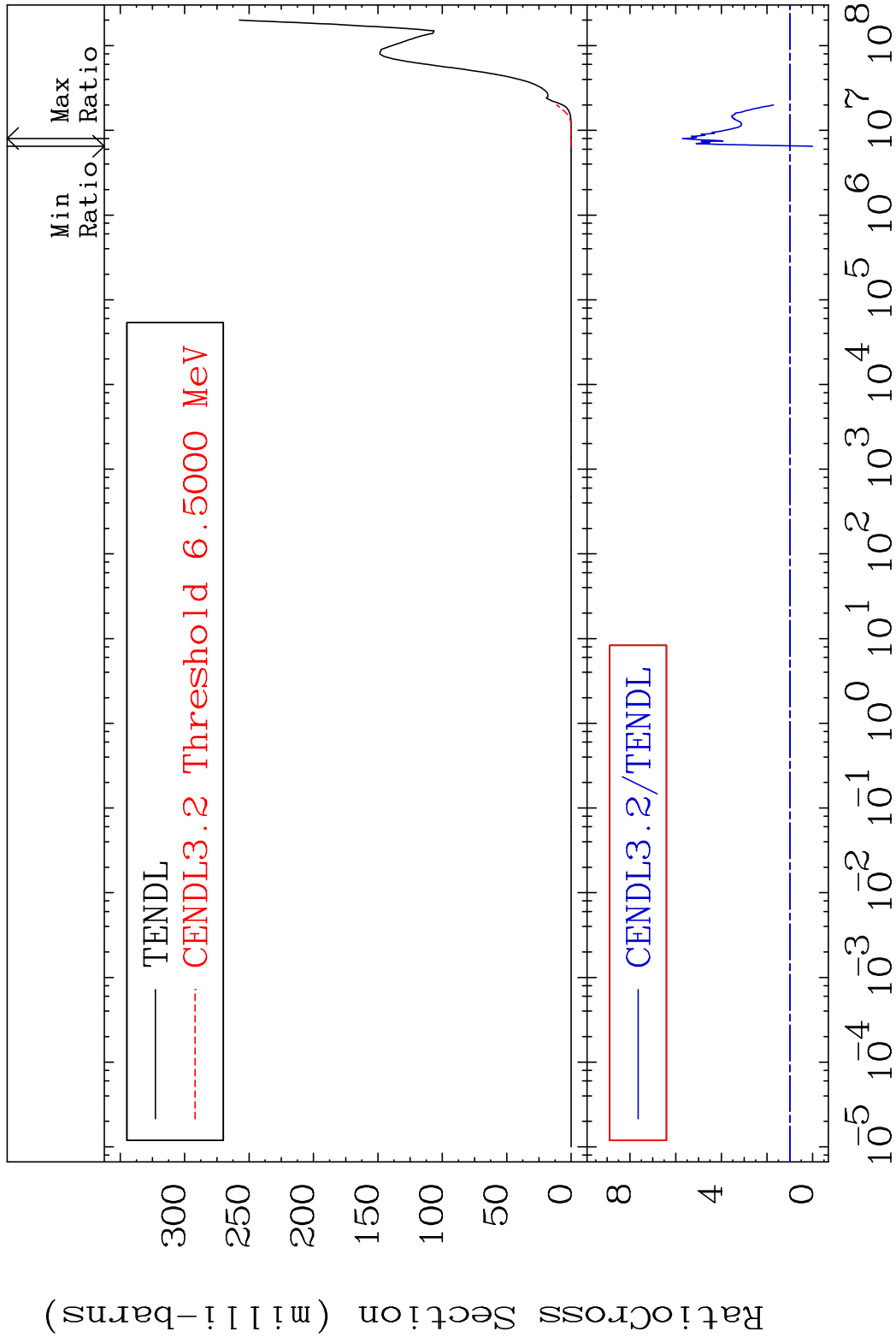


MAT 6449

He-4 Production

64-Gd-160

Cross Section -100.0 To 470.7 %

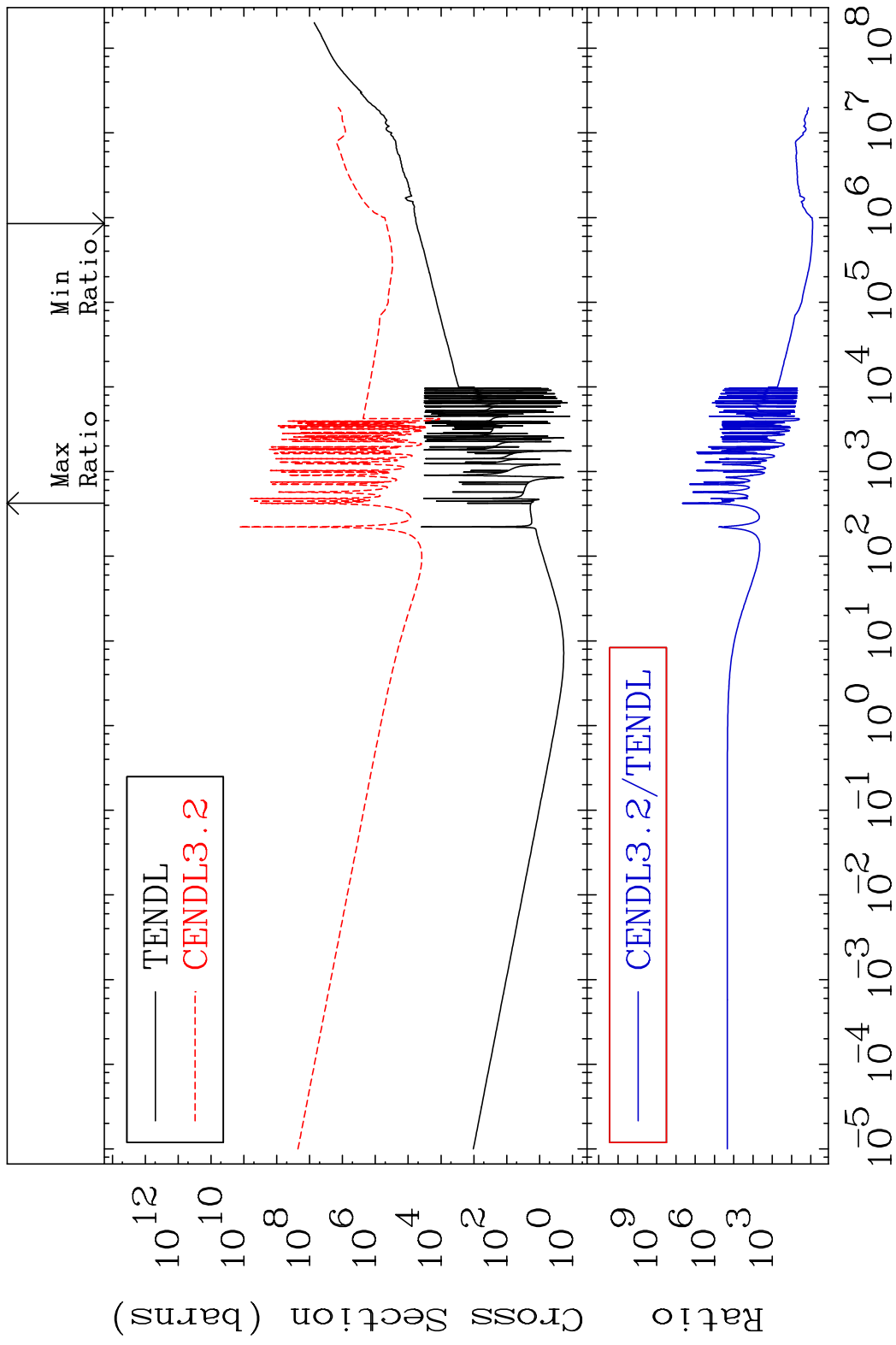


27

Incident Energy (eV)

64-Gd-160

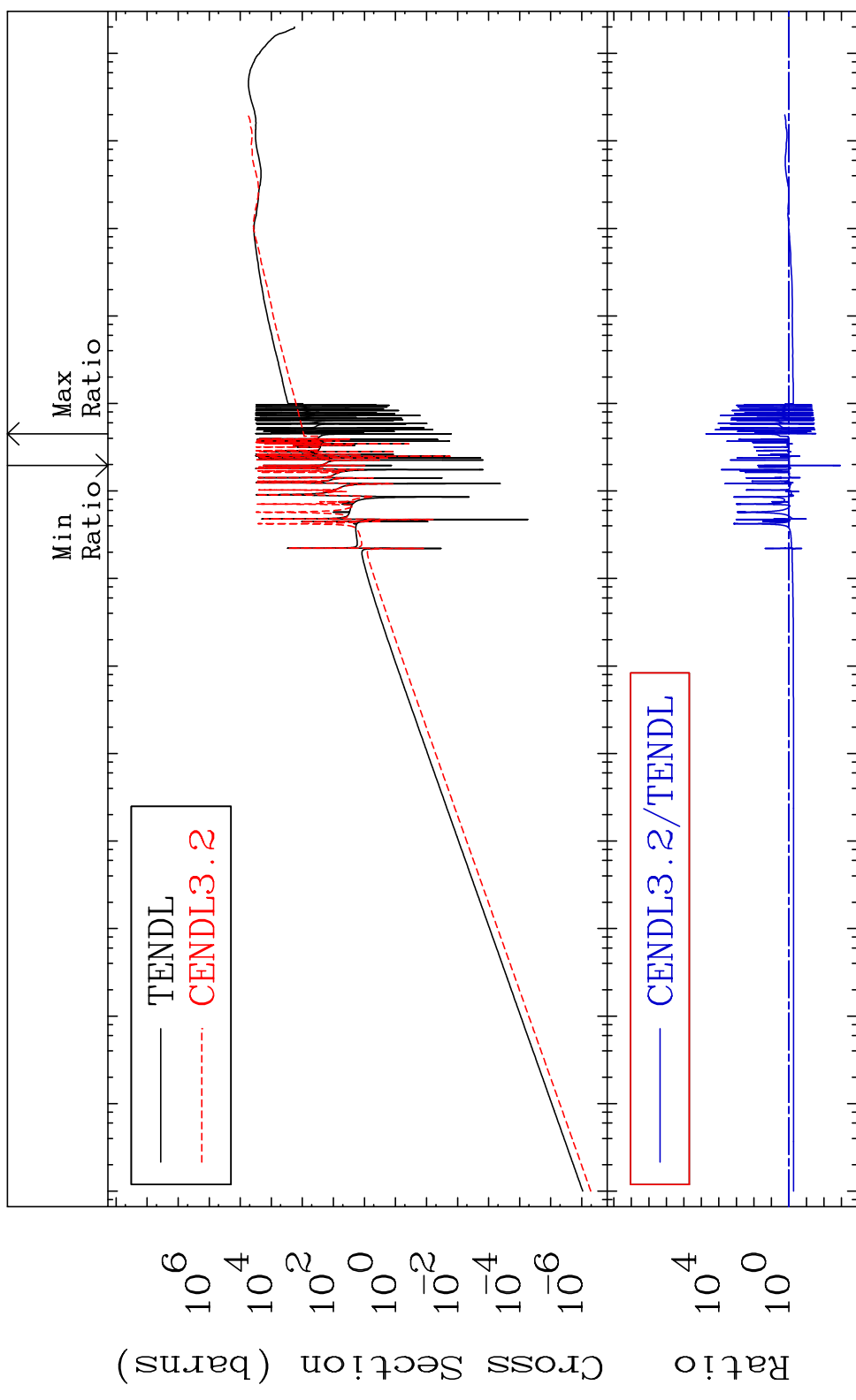
MAT 6449 Kerma total (eV-barns) 64-Gd-160
 Cross Section 715.8 To 9999. %



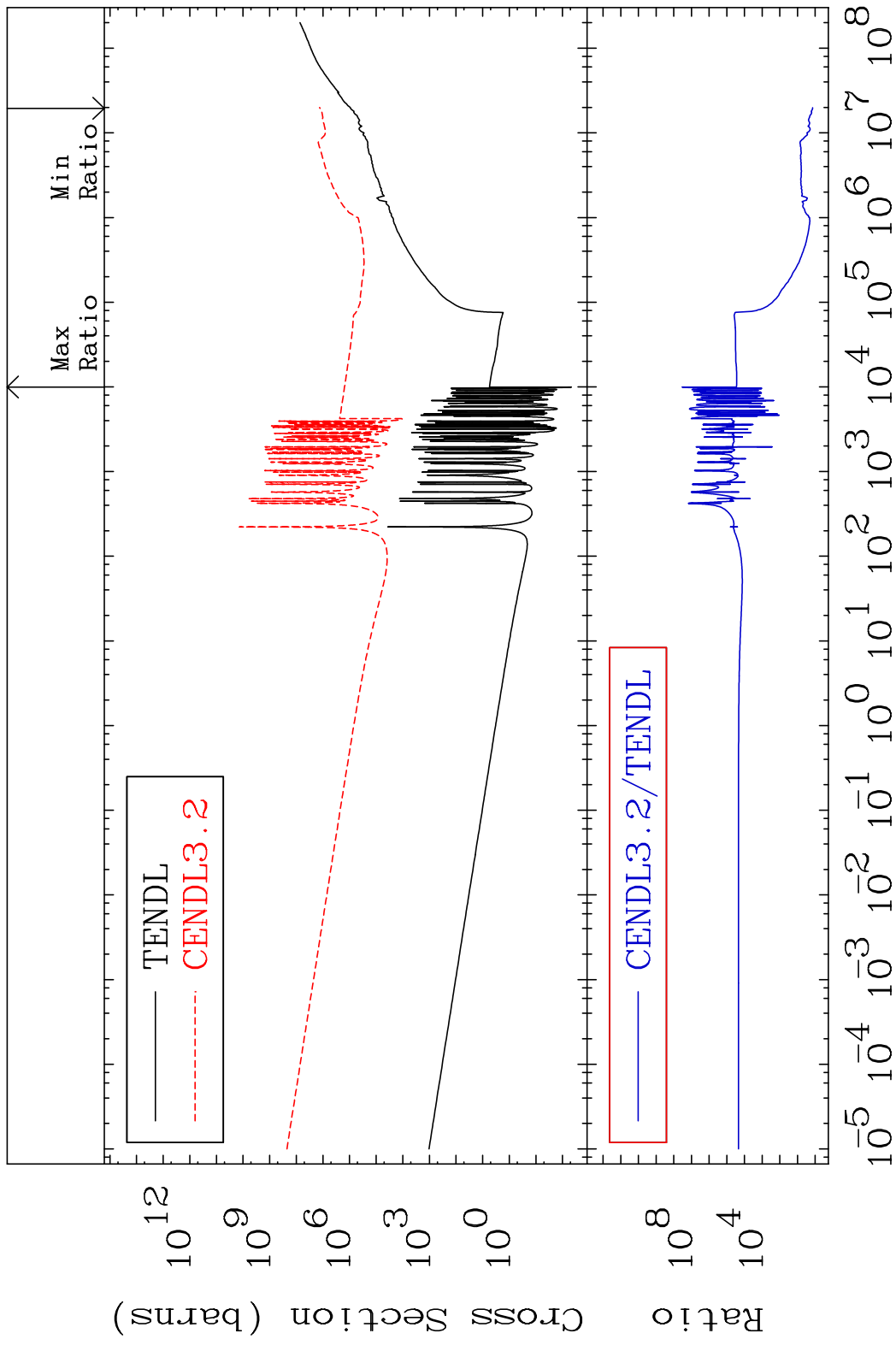
MAT 6449

Kerma elastic Cross Section -99.89 To 9999. %

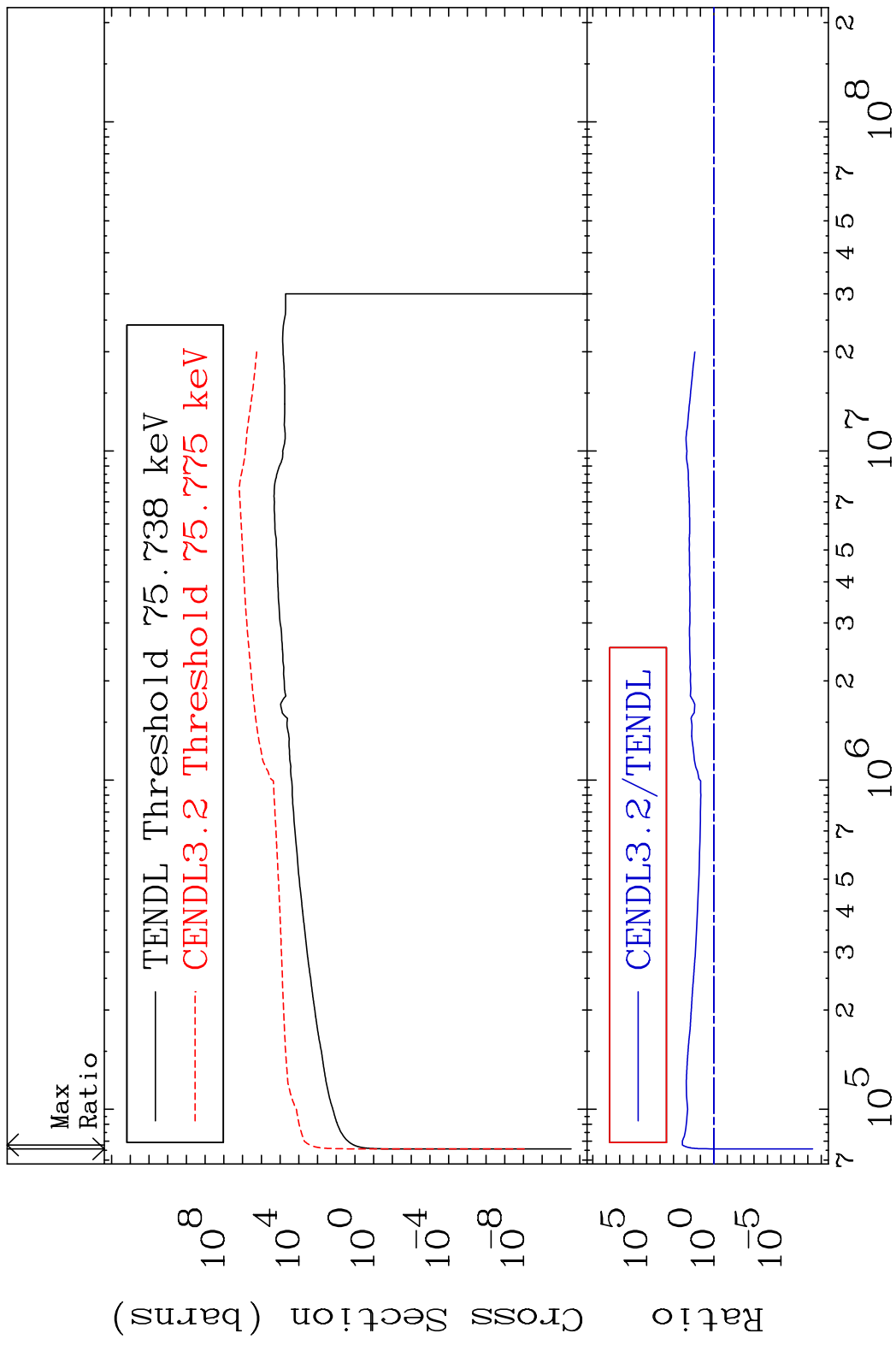
64-Gd-160



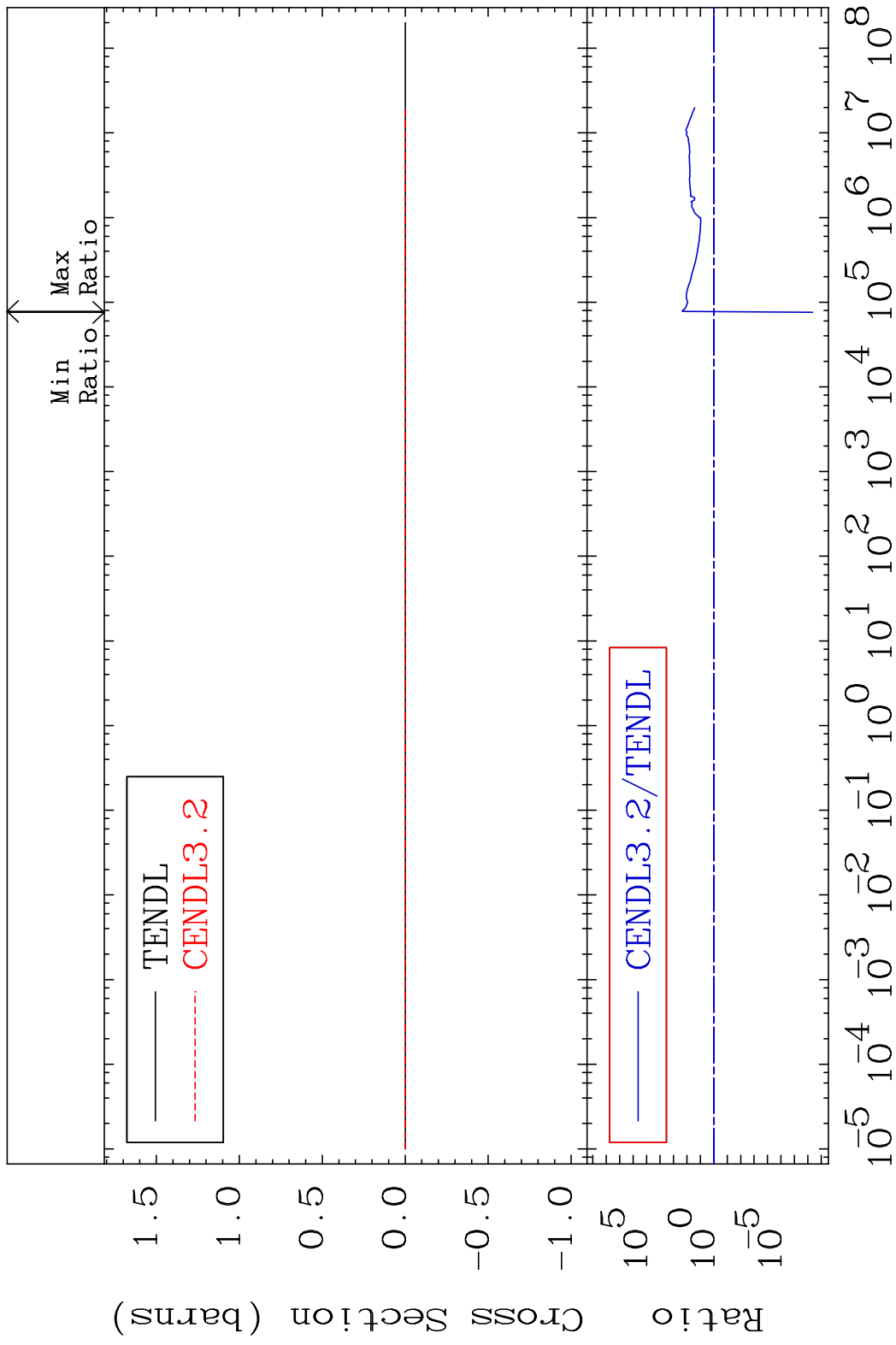
MAT 6449 Kerma non-elastic (all but mt2) 64-Gd-160
 Cross Section 1299. To 9999. %



MAT 6449 Kerma inelastic (mt51-91) 64-Gd-160
 Cross Section -100.0 To 9999. %

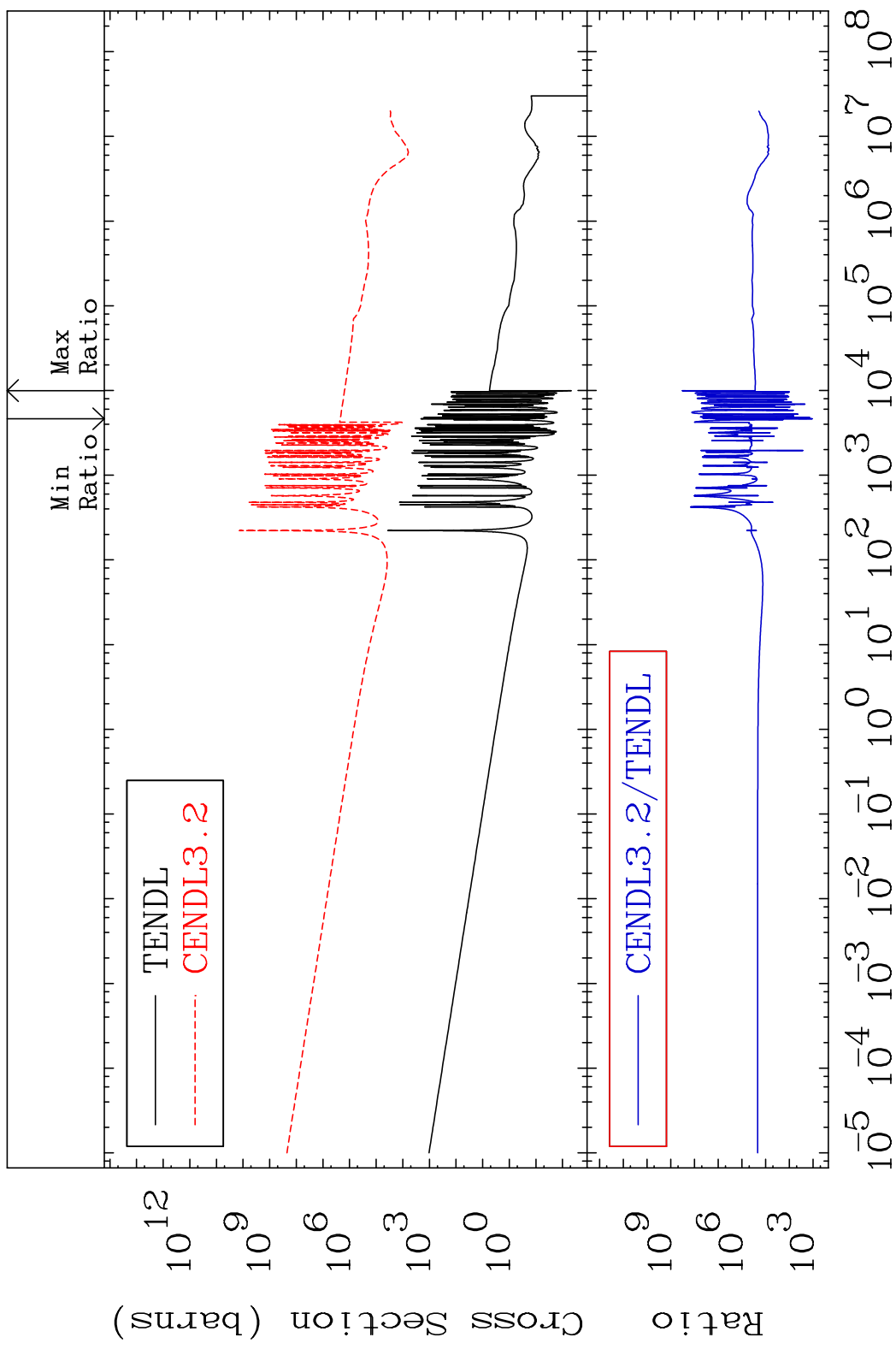


MAT 6449 Kerma fission (mt18 or mt19-20-21-38) 64-Gd-160
 Cross Section -100.0 To 9999. %

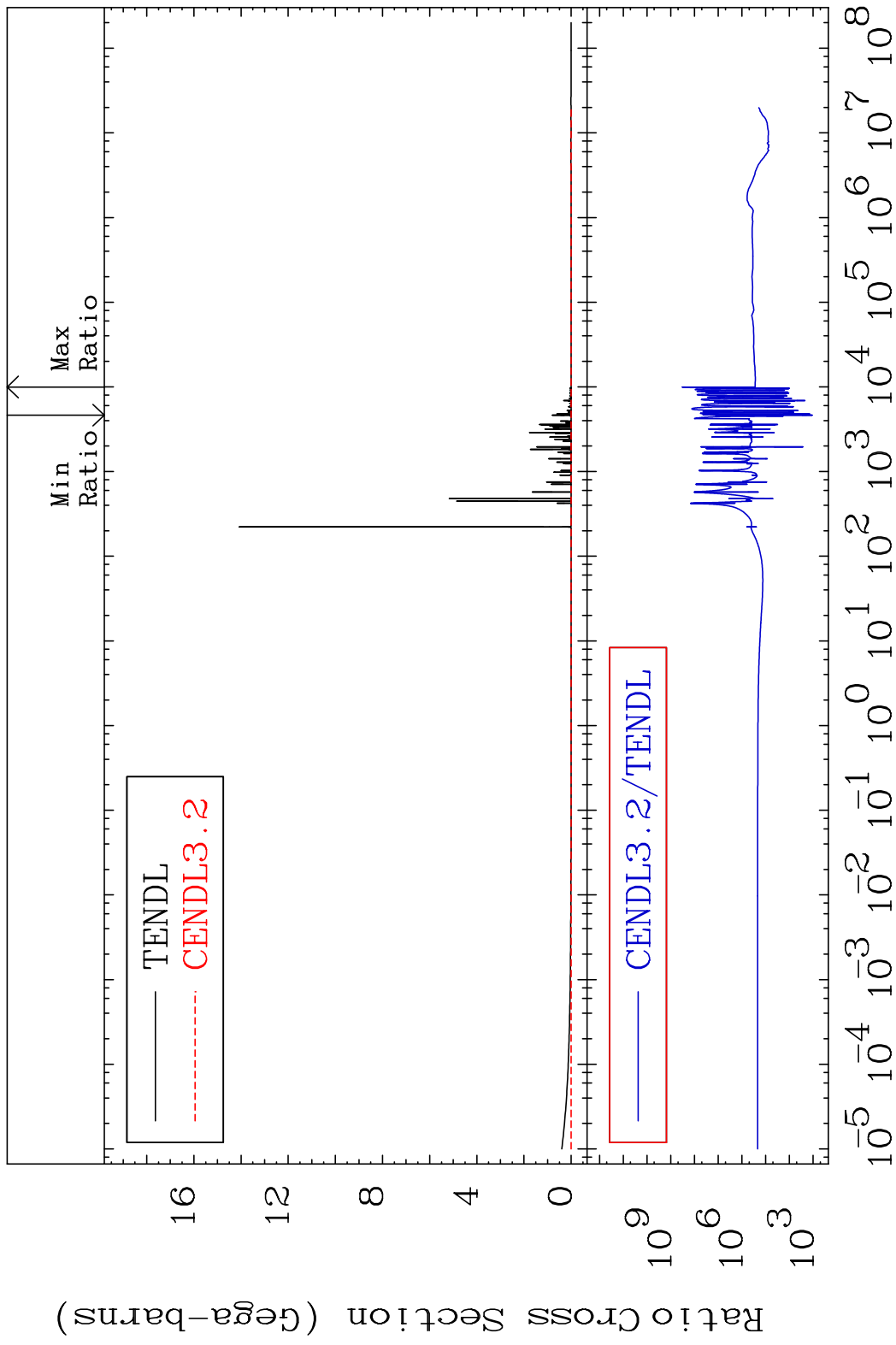


MAT 6449

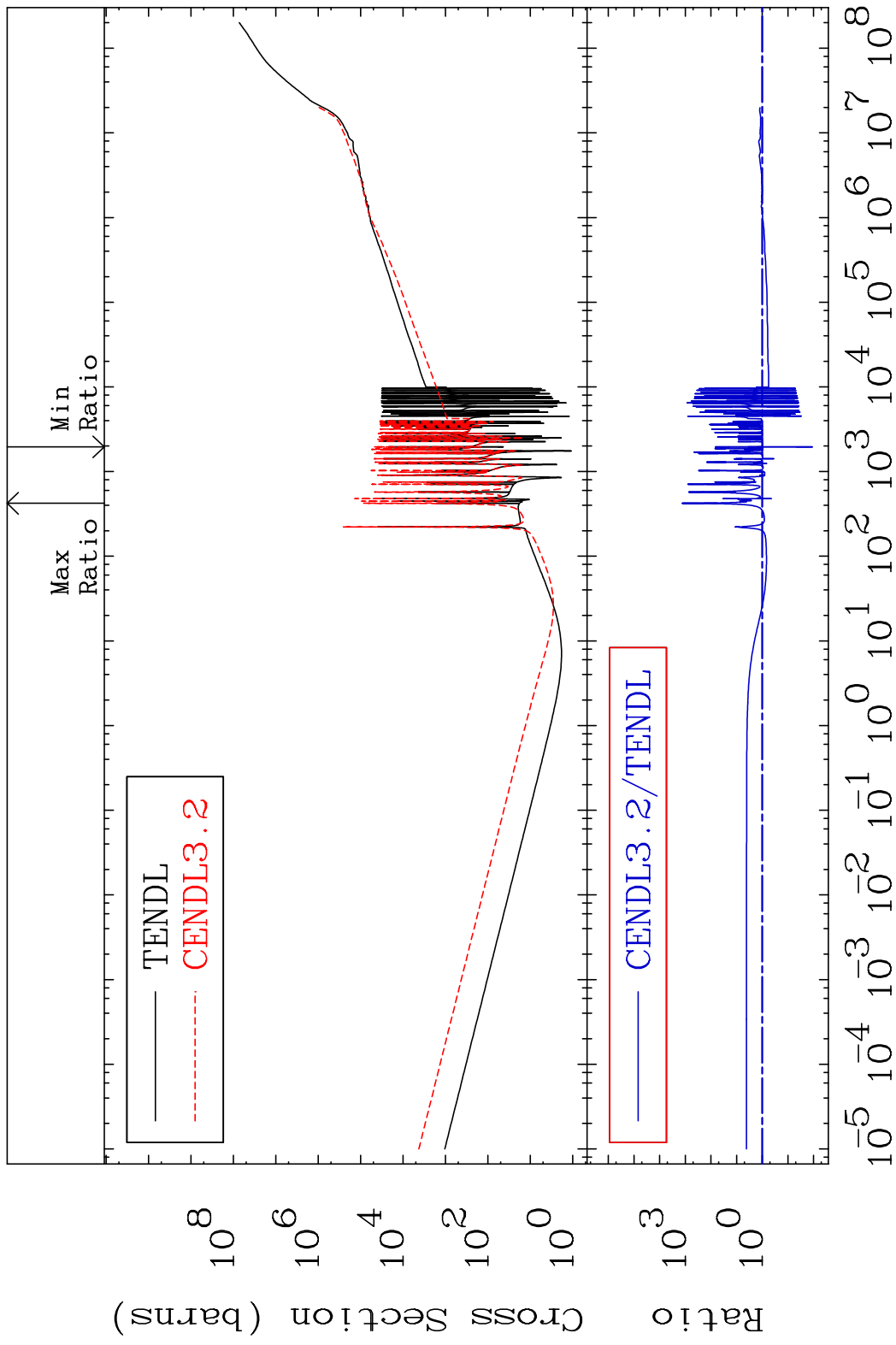
Kerma capture (mt102) 64-Gd-160
Cross Section 9999. To 9999. %



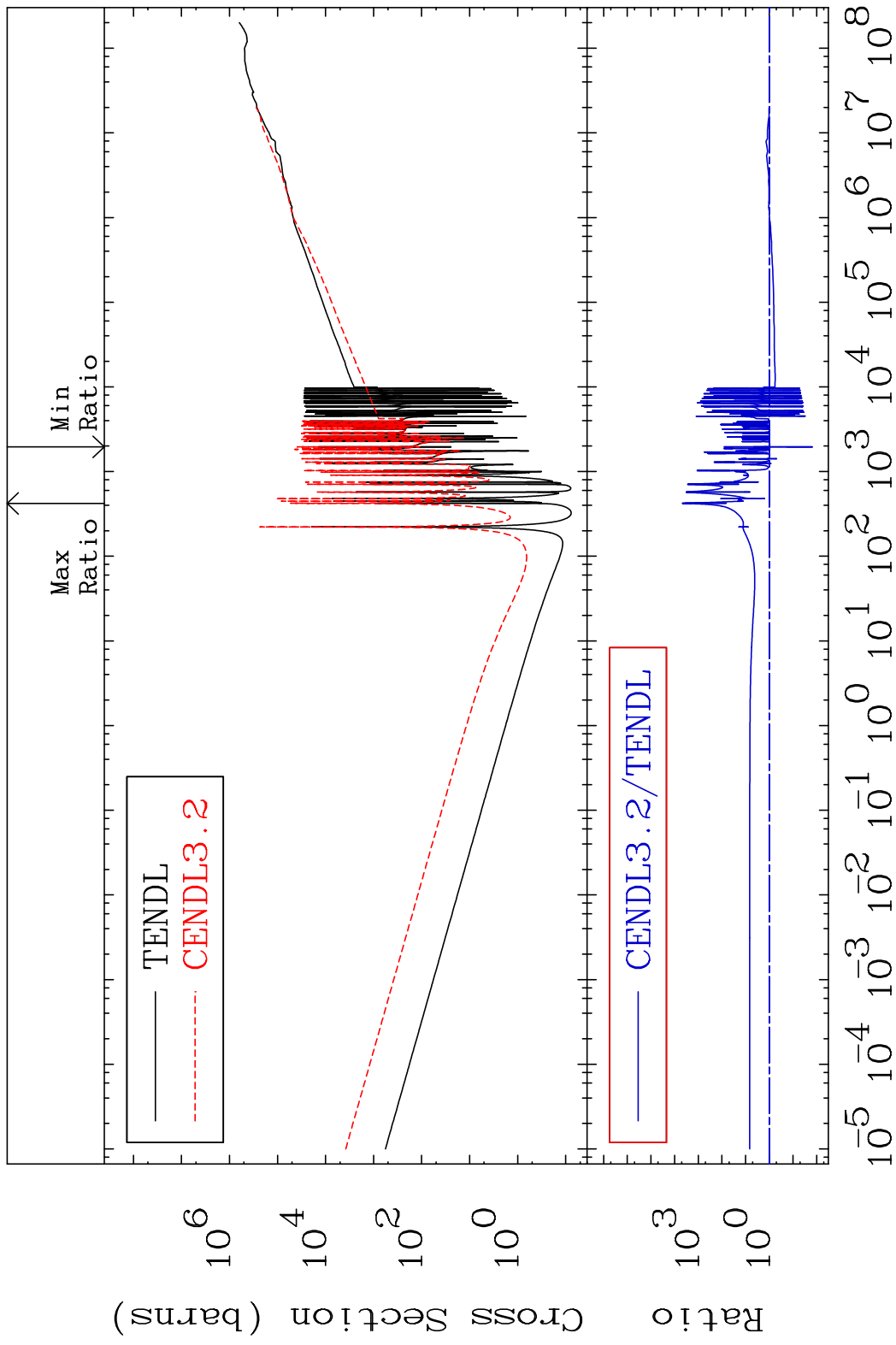
MAT 6449 Total photon (eV-barns) 64-Gd-160
 Cross Section 9999. To 9999. %



MAT 6449 Total kinematic kerma (high limit) 64-Gd-160
 Cross Section -98.91 To 9999. %



MAT 6449 Dpa total (eV-barns) 64-Gd-160
 Cross Section -98.52 To 9999. %

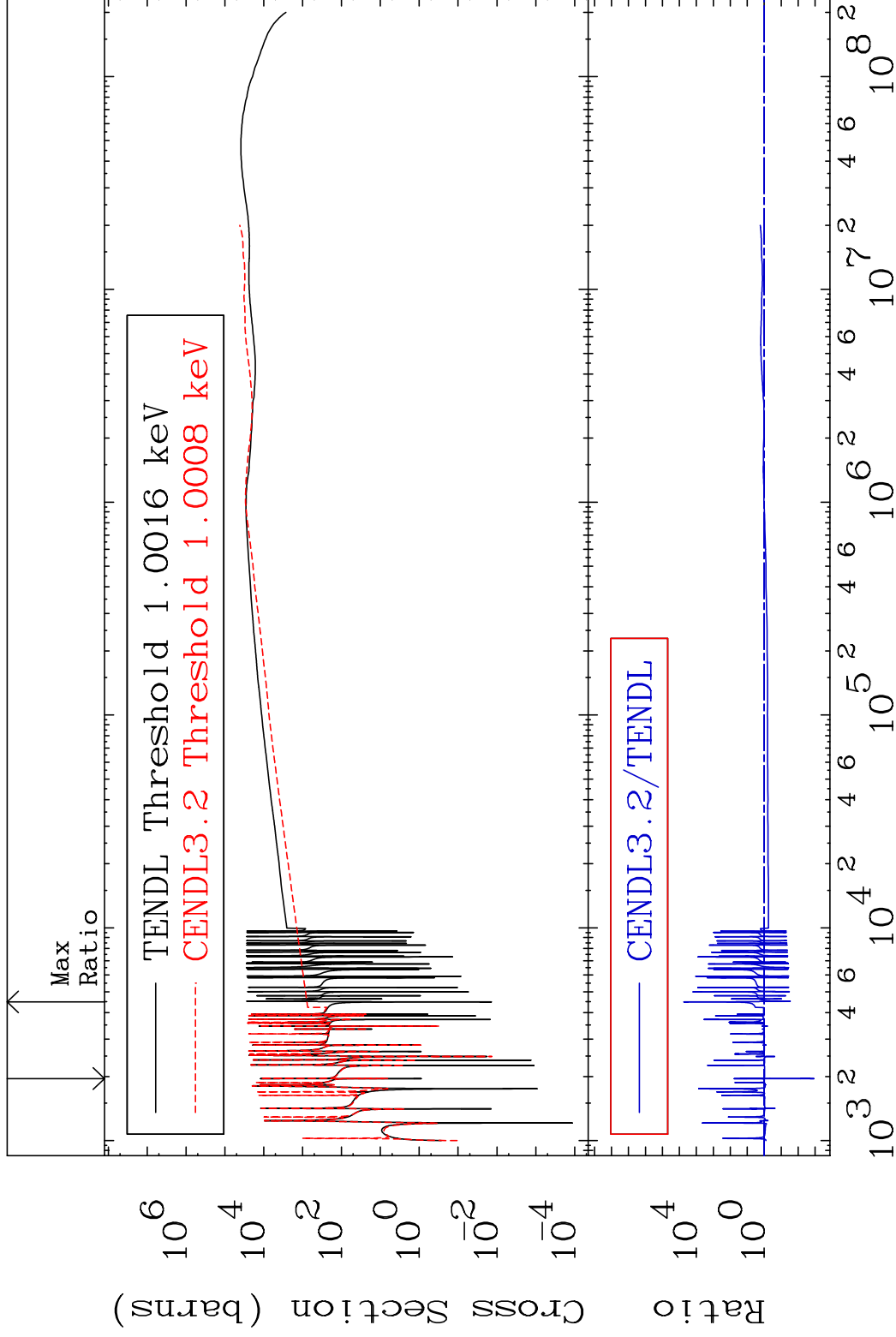


MAT 6449

Dpa elastic (mt2)

64-Gd-160

Cross Section -99.89 To 9999. %

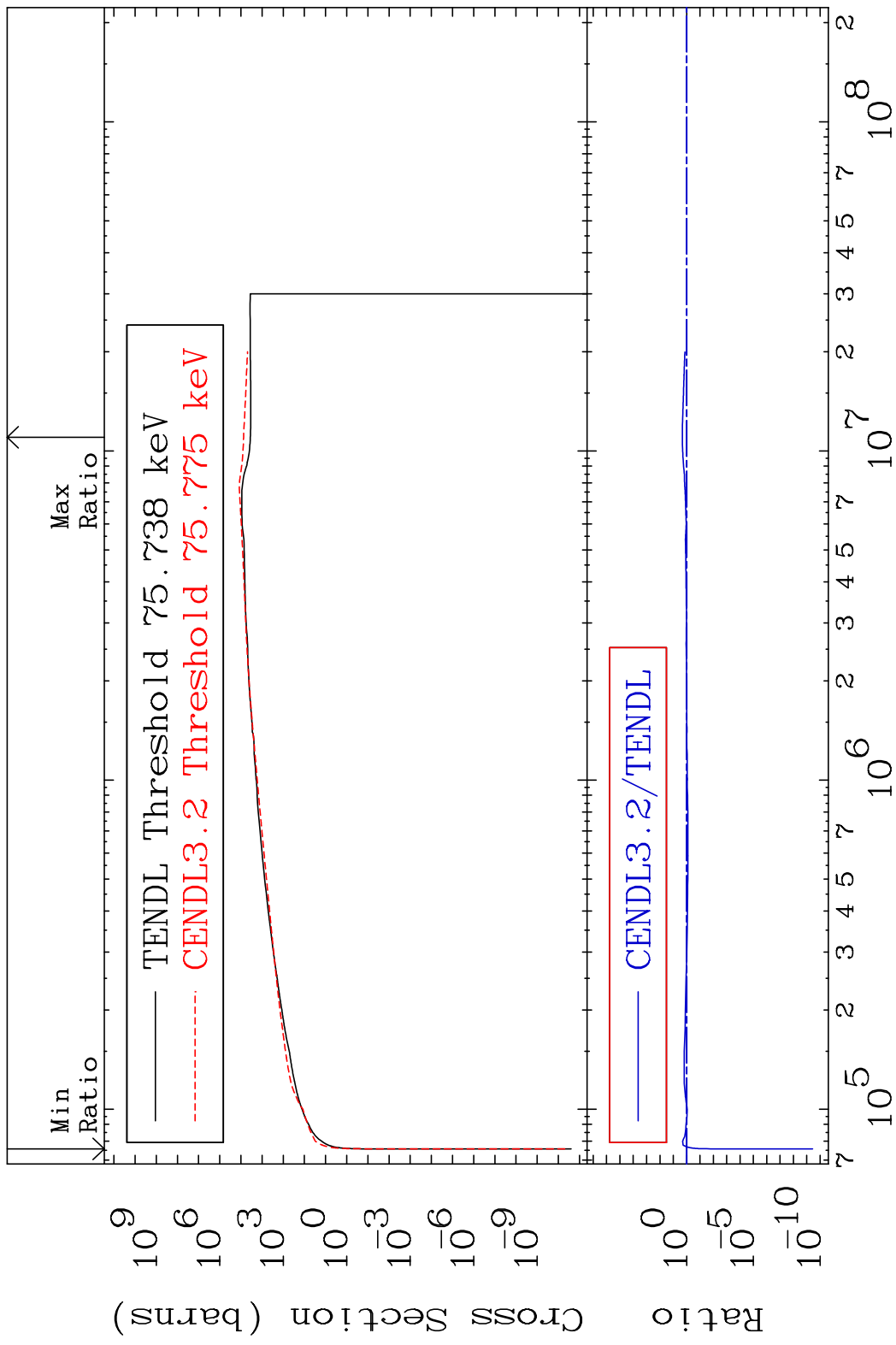


37

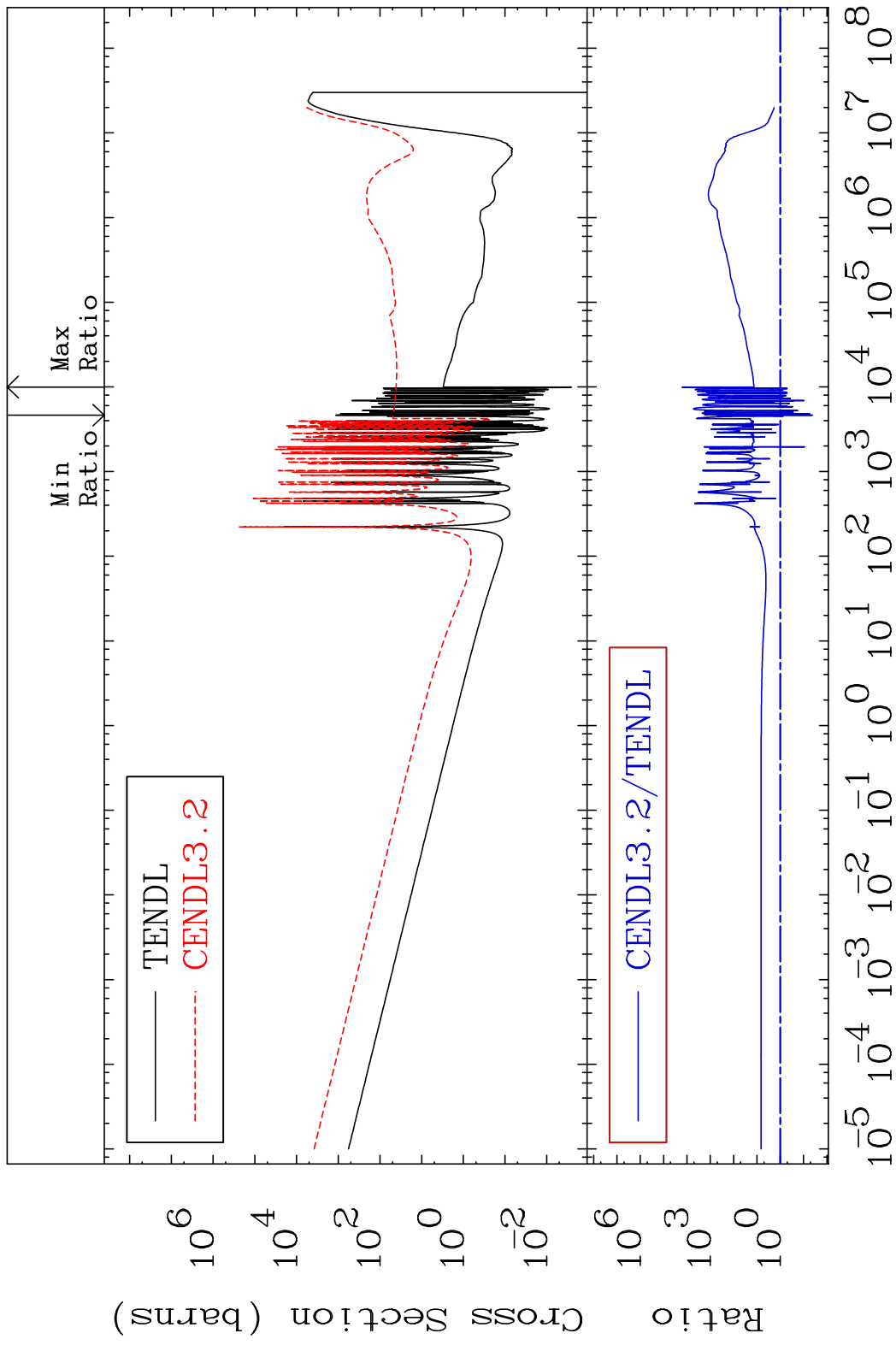
Incident Energy (eV)

64-Gd-160

MAT 6449 Dpa inelastic (mt51-91) 64-Gd-160
 Cross Section -100.0 To 109.0 %



MAT 6449 Dpa disappearance (mt102 -120) 64-Gd-160
 Cross Section -95.87 To 9999. %



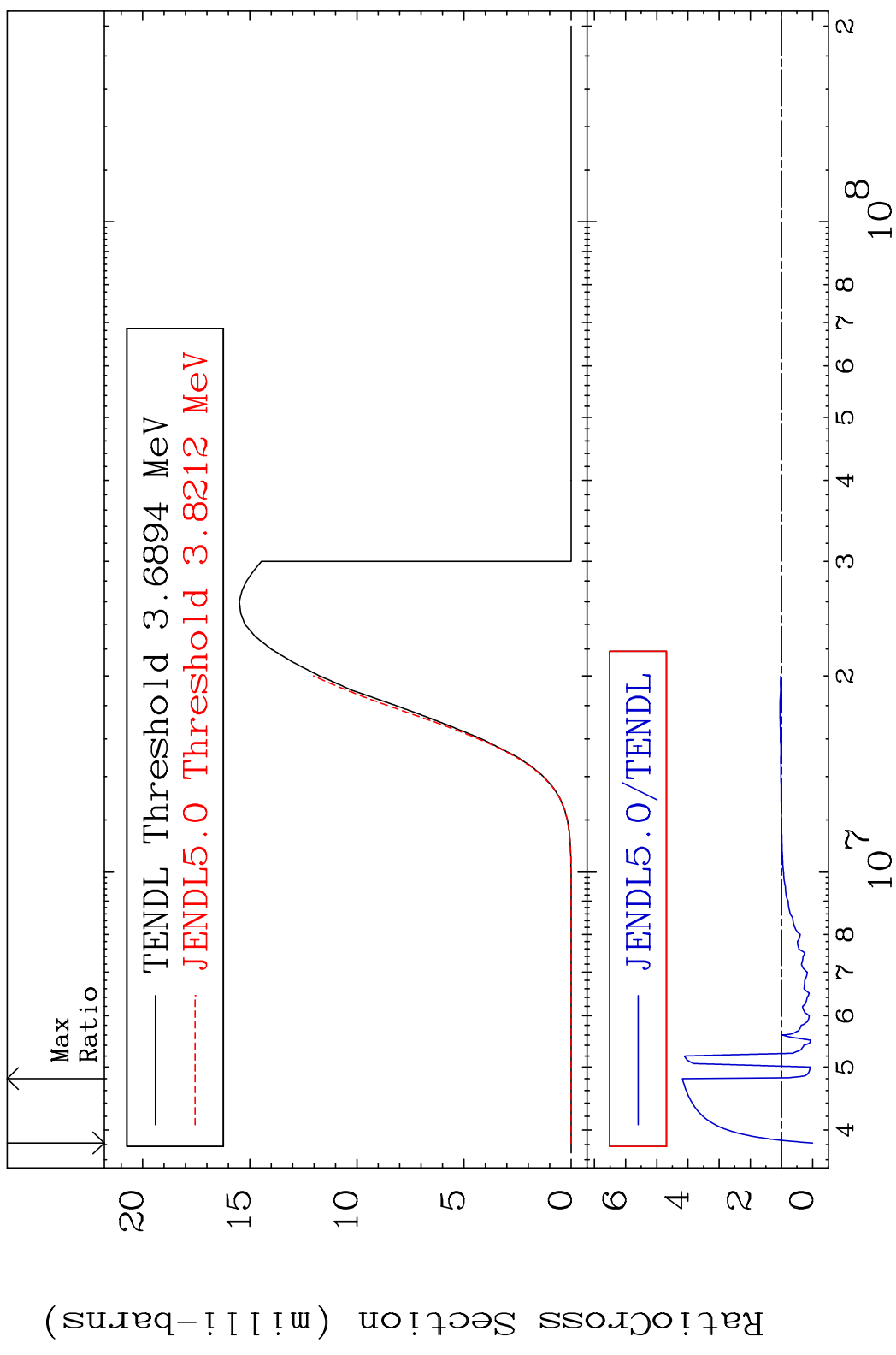
39 Incident Energy (eV) 64-Gd-160

MAT 6449

(n,p)

64-Gd-160

Cross Section -100.0 To 317.9 %



40

Incident Energy (eV)

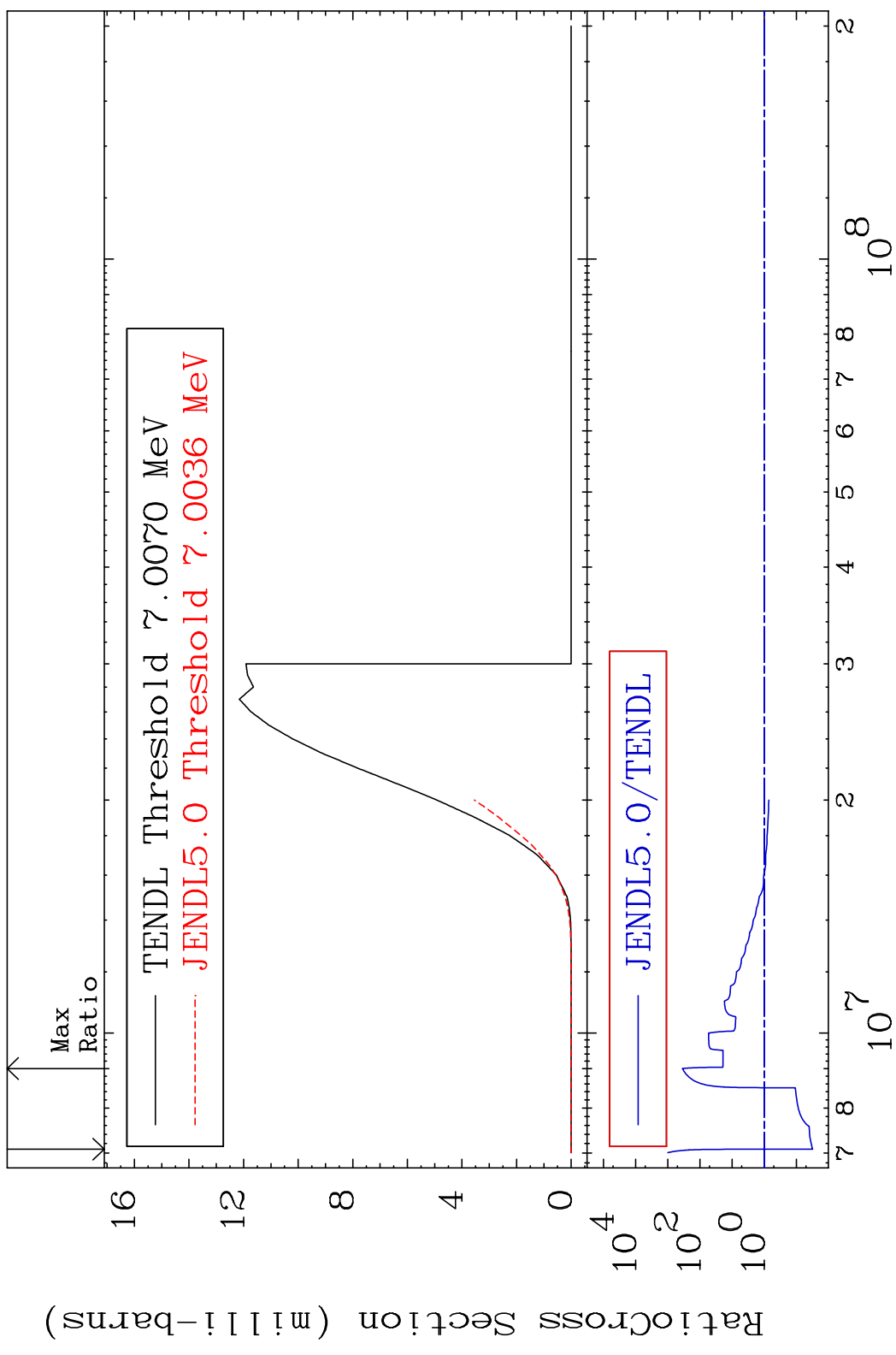
64-Gd-160

MAT 6449

(n,d)

64-Gd-160

Cross Section -96.87 To 9999. %



41

Incident Energy (eV)

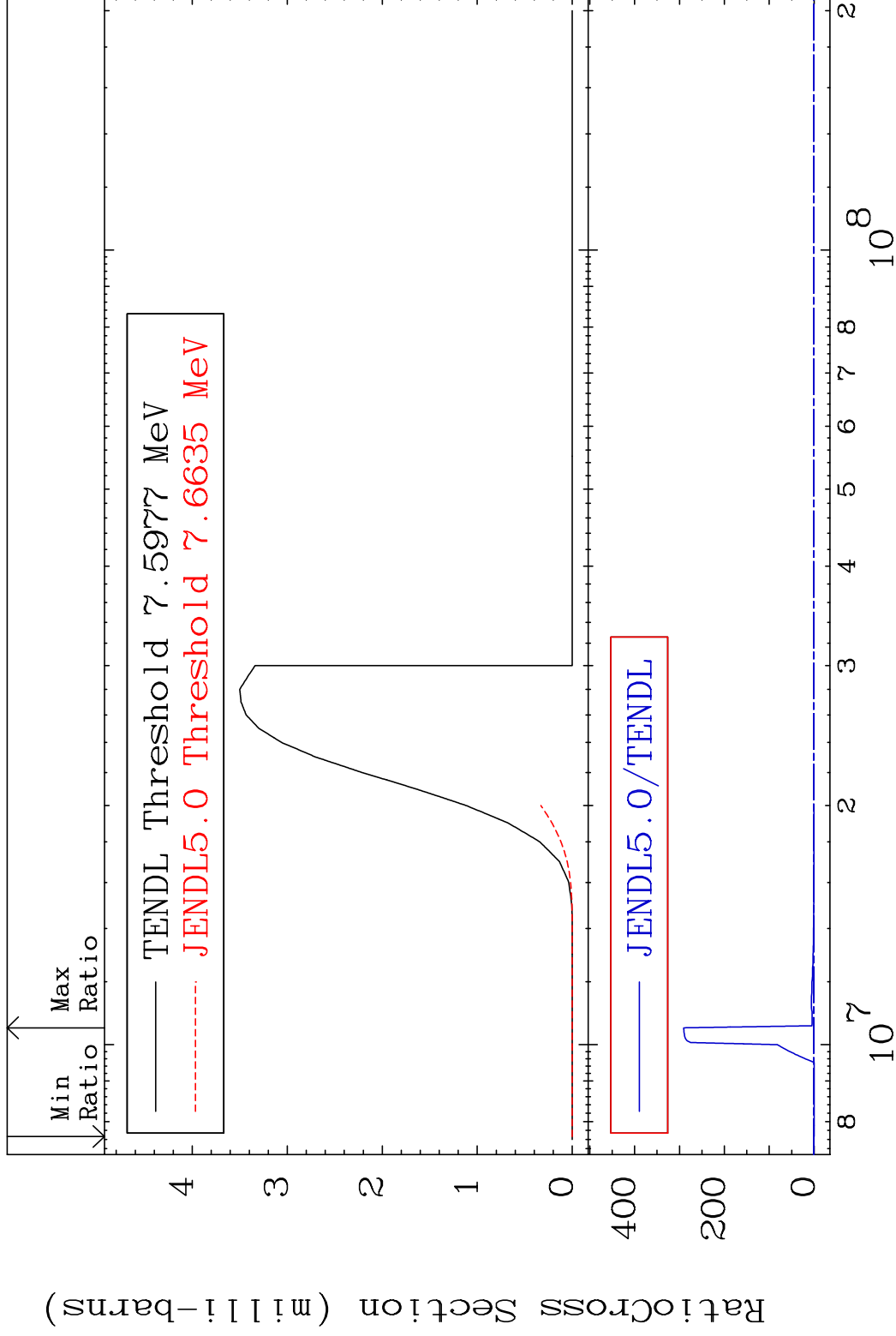
64-Gd-160

MAT 6449

(n, t)

64-Gd-160

Cross Section -100.0 To 9999. %



42

Incident Energy (eV)

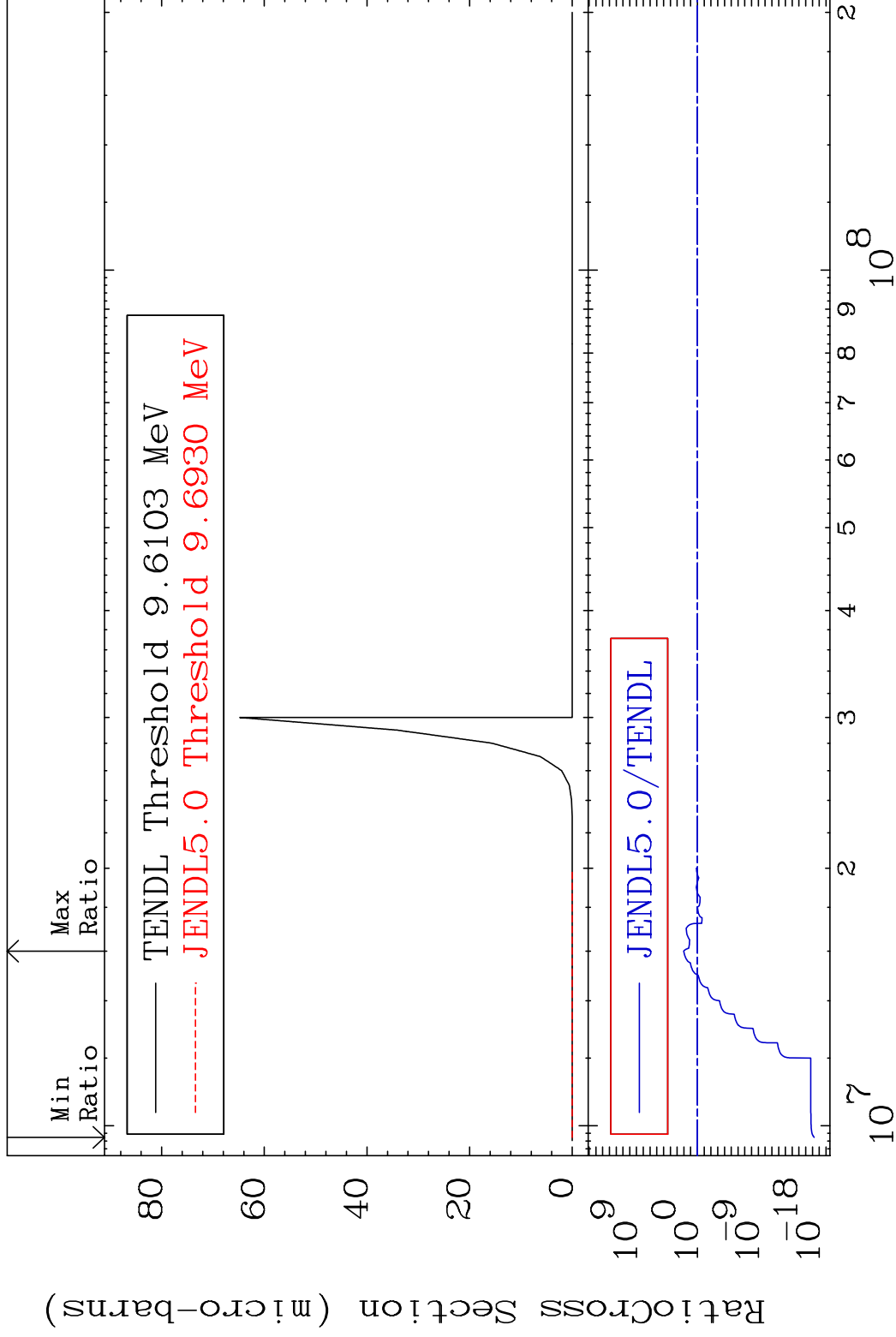
64-Gd-160

MAT 6449

(n, He-3)

64-Gd-160

Cross Section -100.0 To 9999. %



43

Incident Energy (eV)

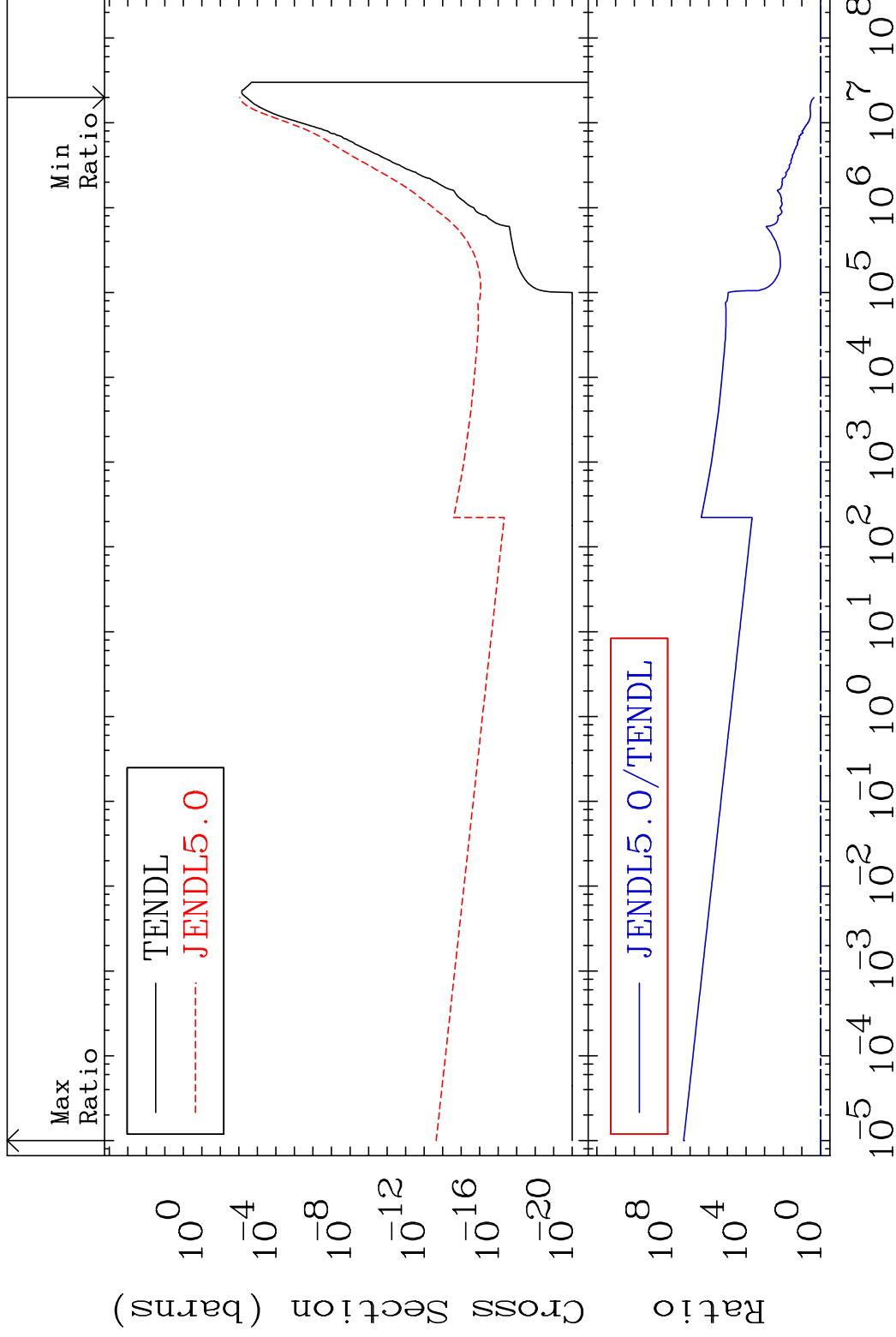
64-Gd-160

MAT 6449

(n, α)

64-Gd-160

Cross Section 121.2 To 9999. %



44

Incident Energy (eV)

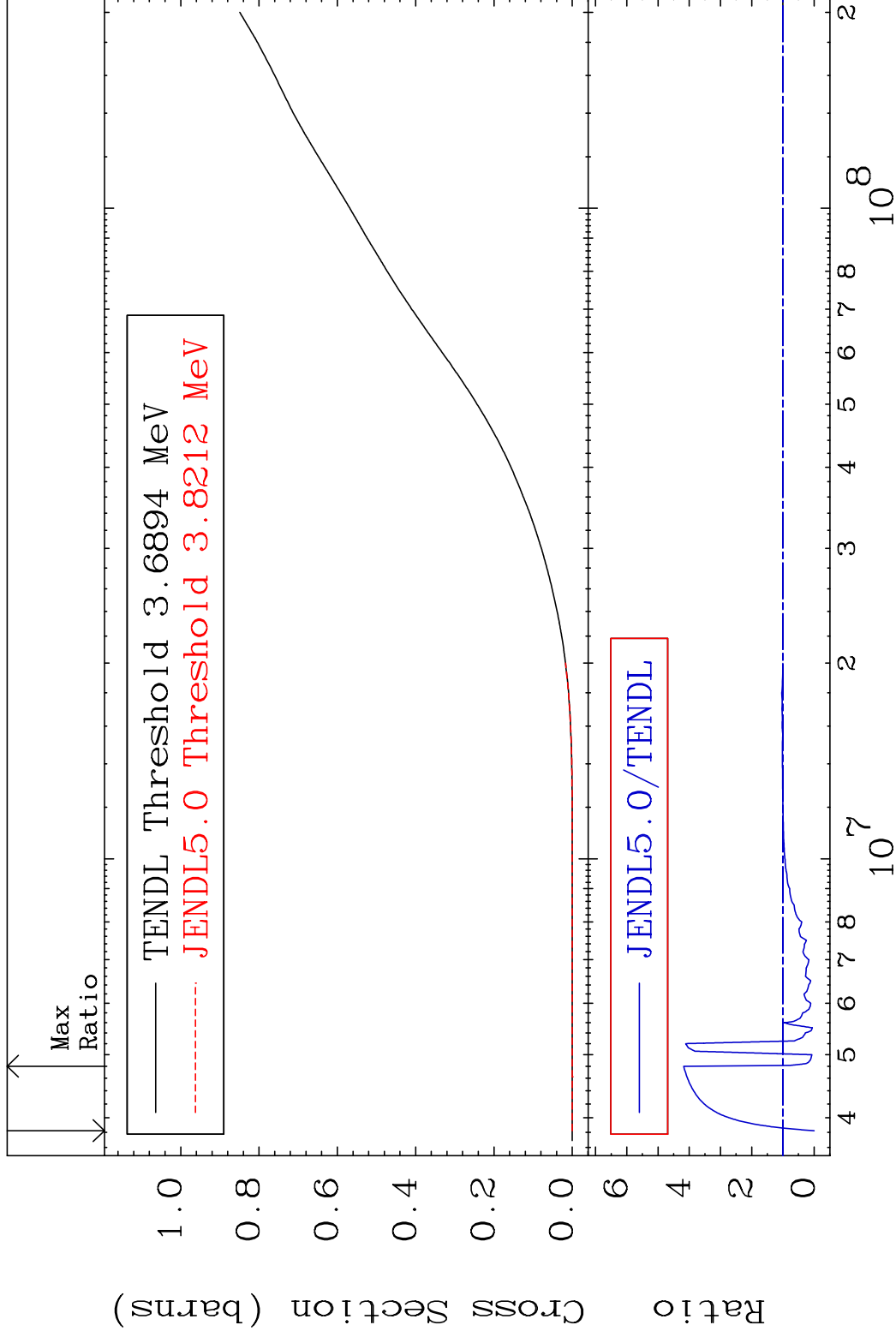
64-Gd-160

MAT 6449

Hydrogen Production

64-Gd-160

Cross Section -100.0 To 317.9 %



45

Incident Energy (eV)

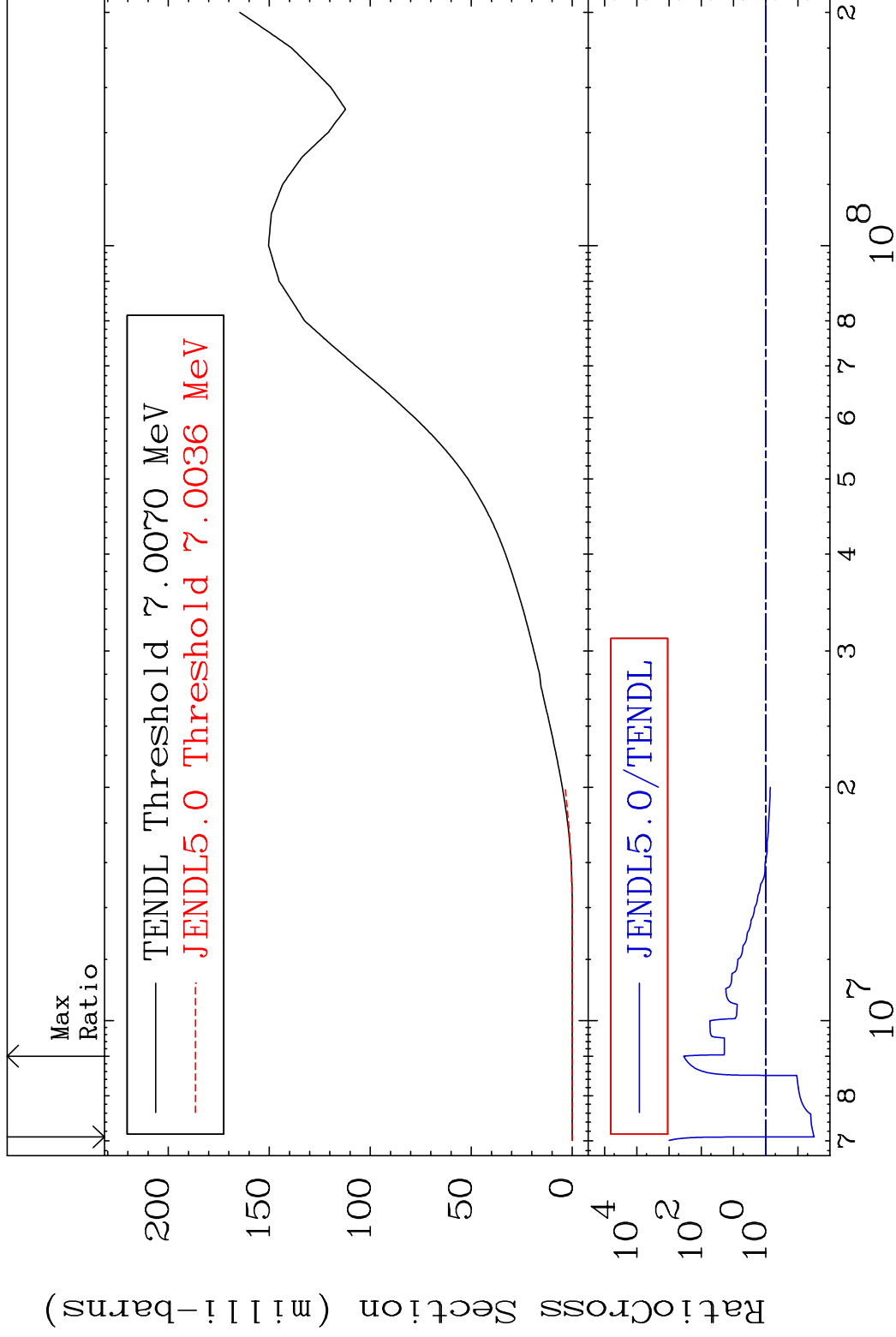
64-Gd-160

MAT 6449

Deuterium Production

64-Gd-160

Cross Section -96.87 To 9999. %

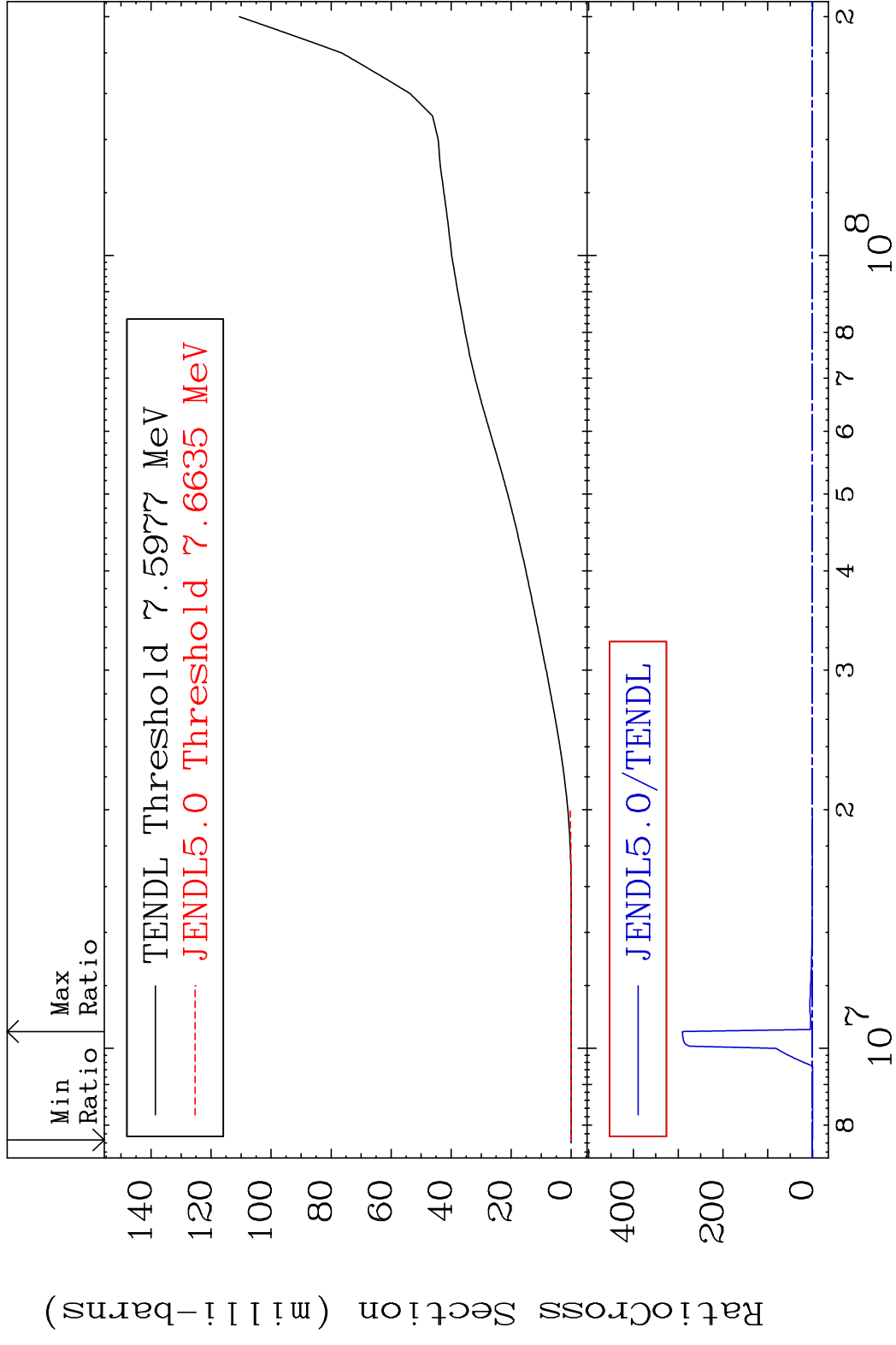


46

Incident Energy (eV)

64-Gd-160

MAT 6449 Tritium Production 64-Gd-160
 Cross Section -100.0 To 9999. %

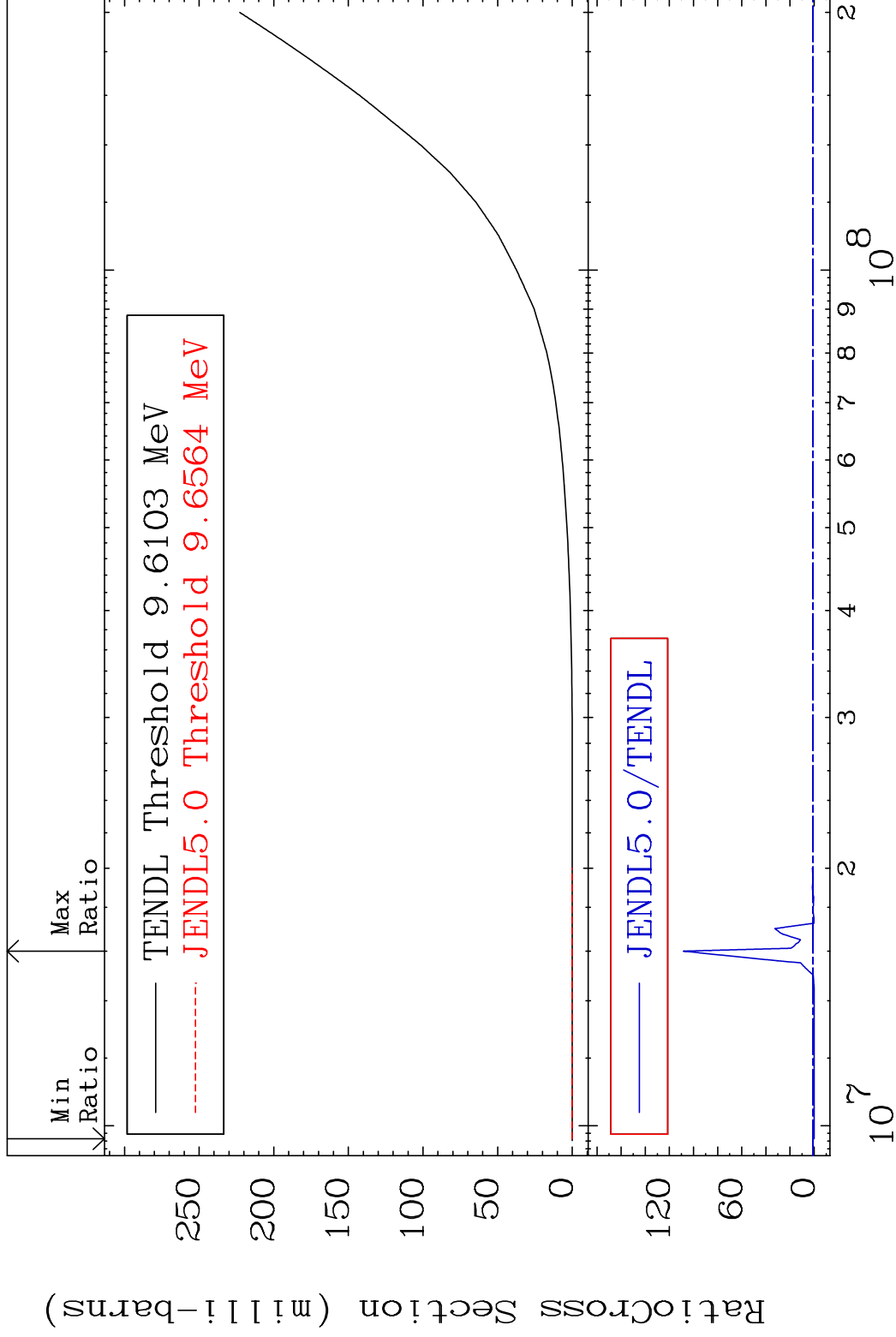


MAT 6449

He-3 Production

64-Gd-160

Cross Section -100.0 To 9999. %

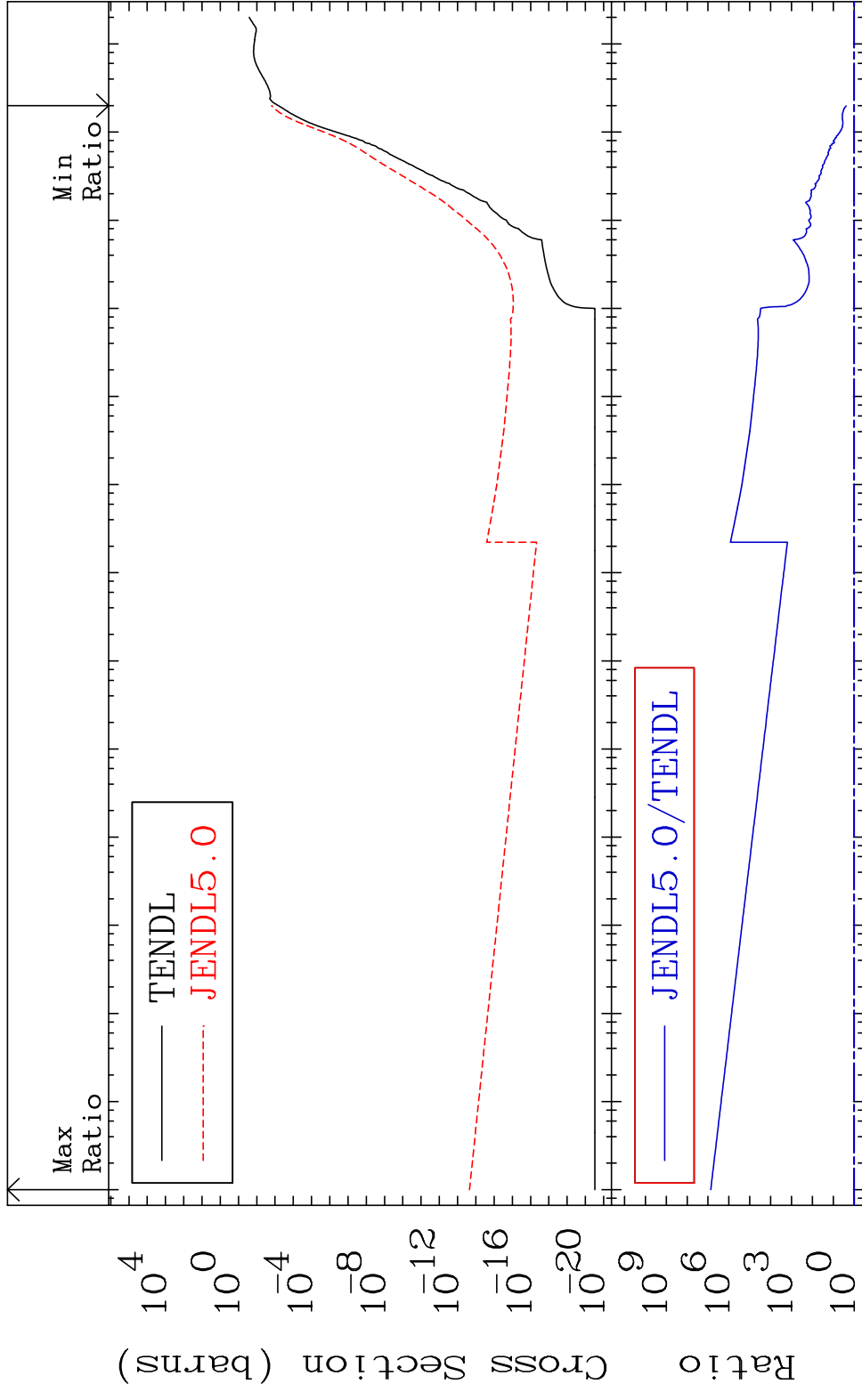


48

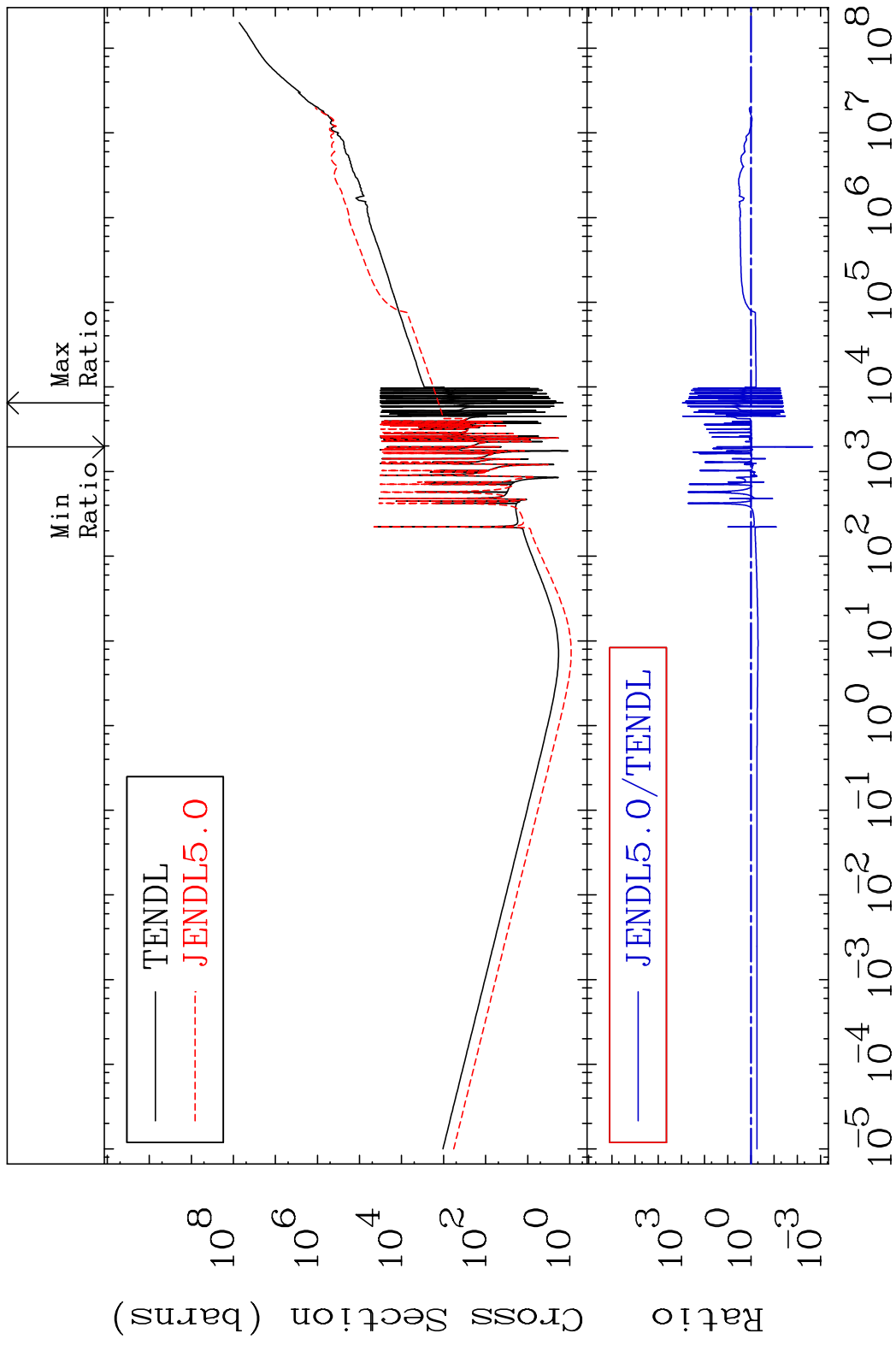
Incident Energy (eV)

64-Gd-160

MAT 6449 He-4 Production 64-Gd-160
 Cross Section 135.7 To 9999. %



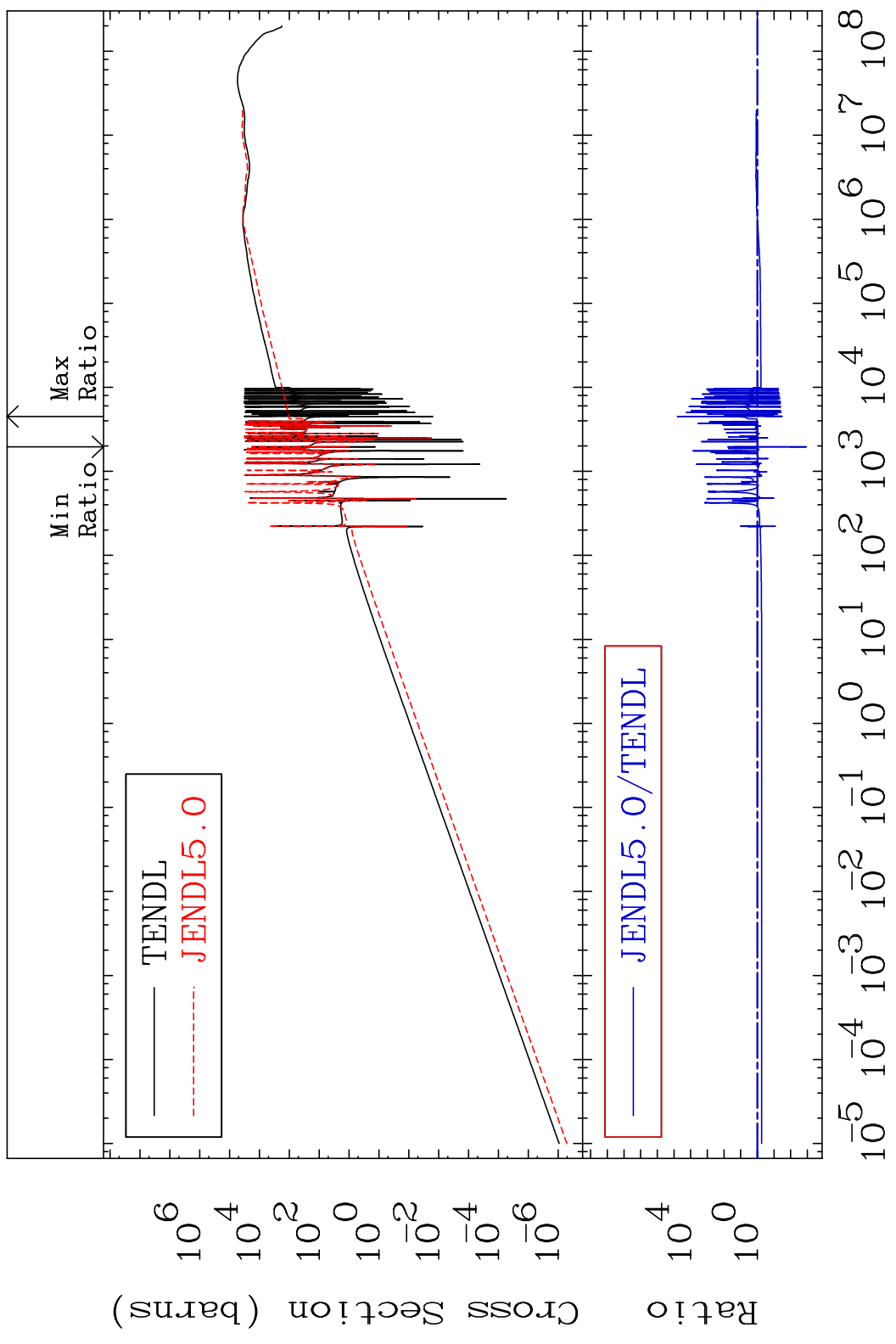
MAT 6449 Kerma total (eV-barns) 64-Gd-160
 Cross Section -99.78 To 9999. %



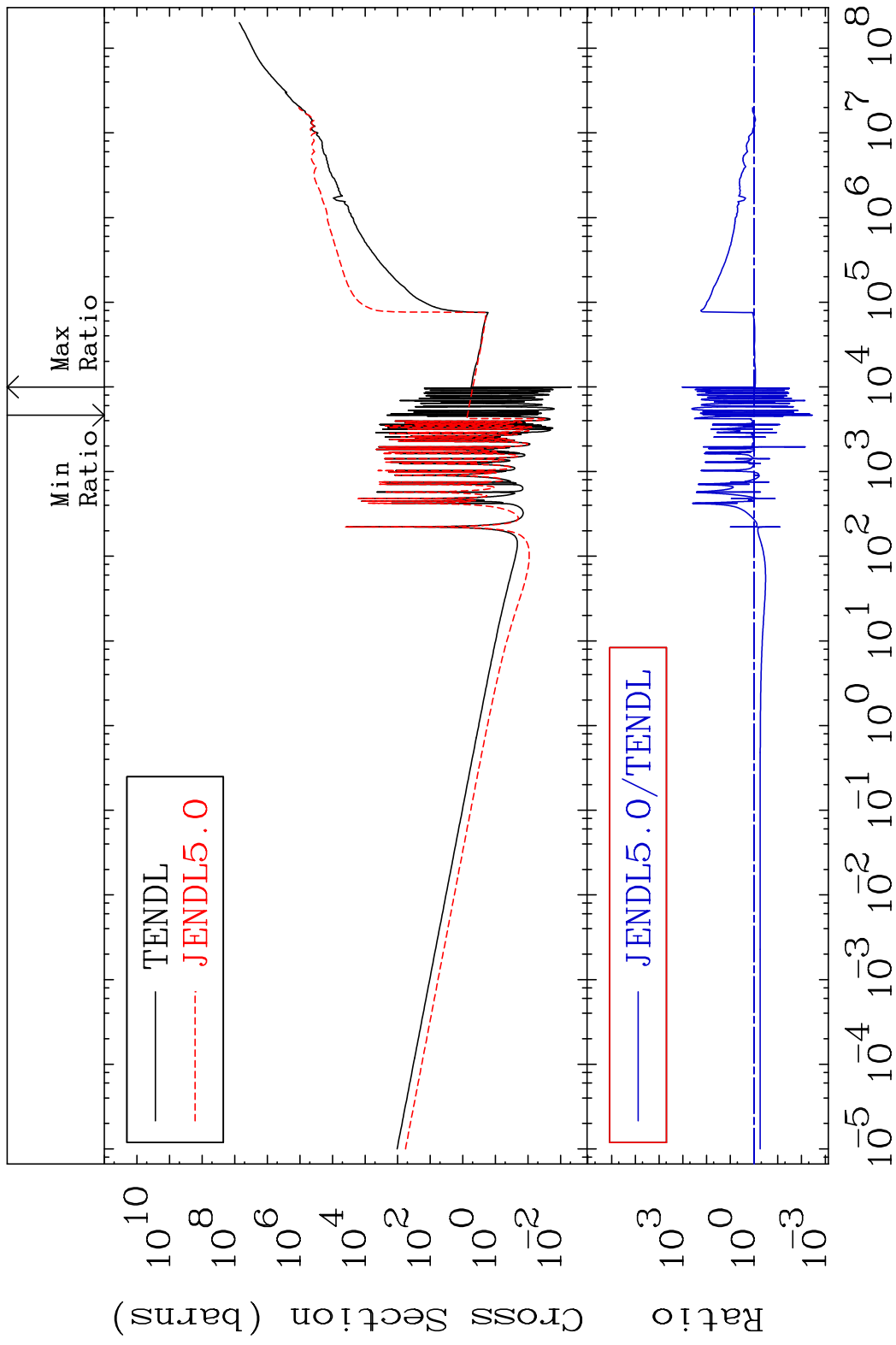
50 Incident Energy (eV) 64-Gd-160

MAT 6449

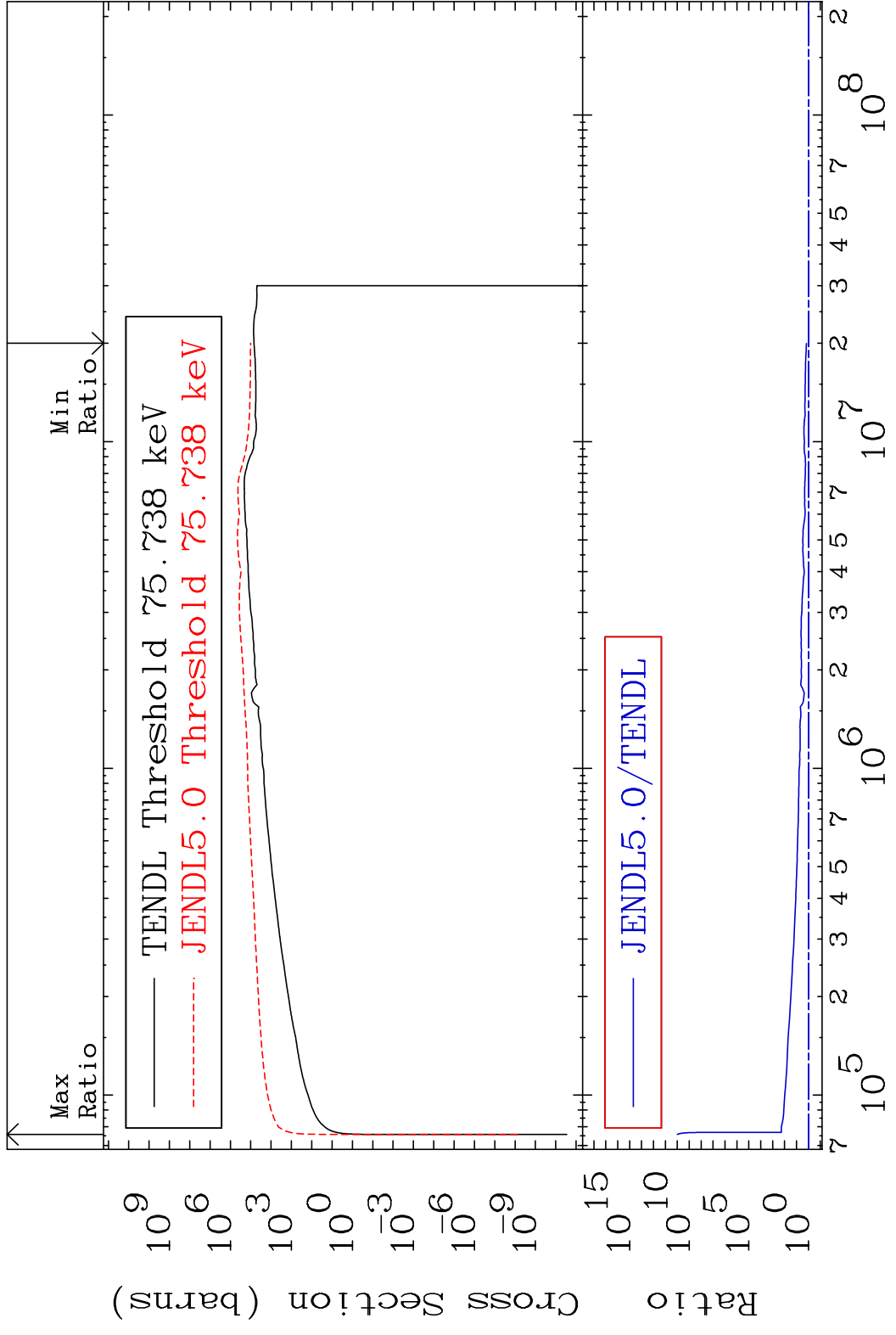
Kerma elastic Cross Section -99.89 To 9999. %
64-Gd-160



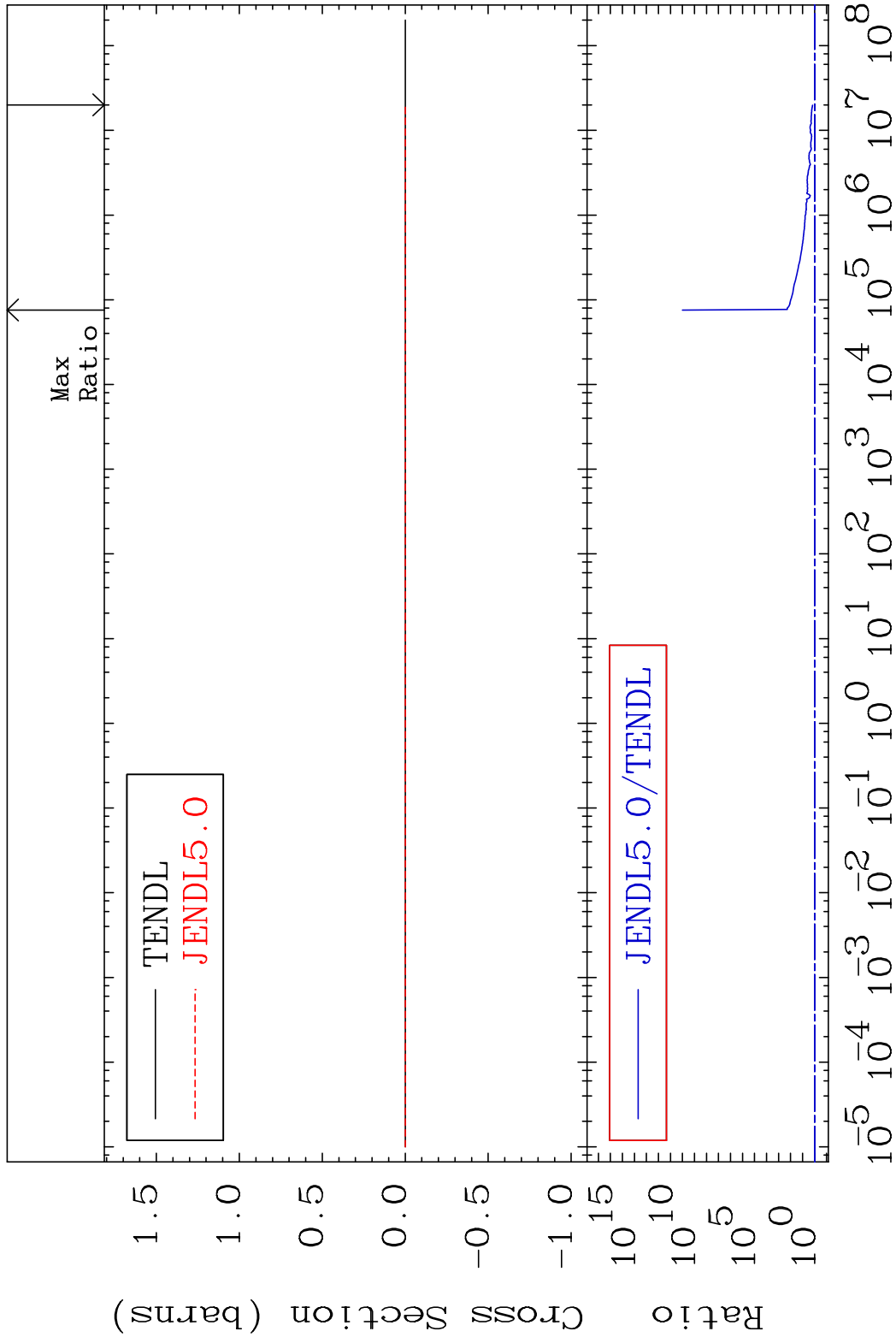
MAT 6449 Kerma non-elastic (all but mt2) 64-Gd-160
 Cross Section -99.66 To 9999. %



MAT 6449 Kerma inelastic (mt51-91) 64-Gd-160
 Cross Section 47.93 To 9999. %

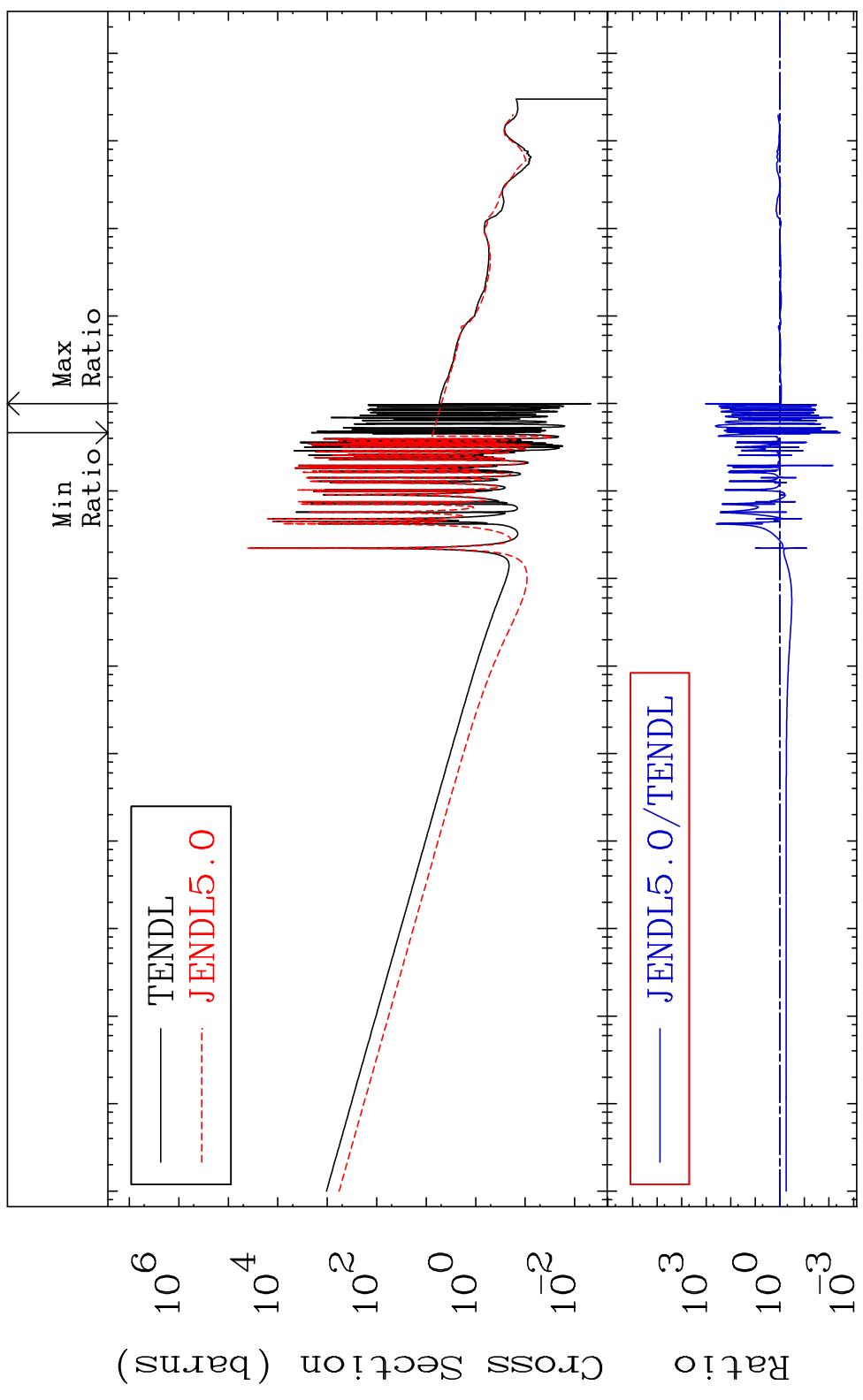


MAT 6449 Kerma fission (mt18 or mt19-20-21-38) 64-Gd-160
 Cross Section 47.93 To 9999. %



MAT 6449

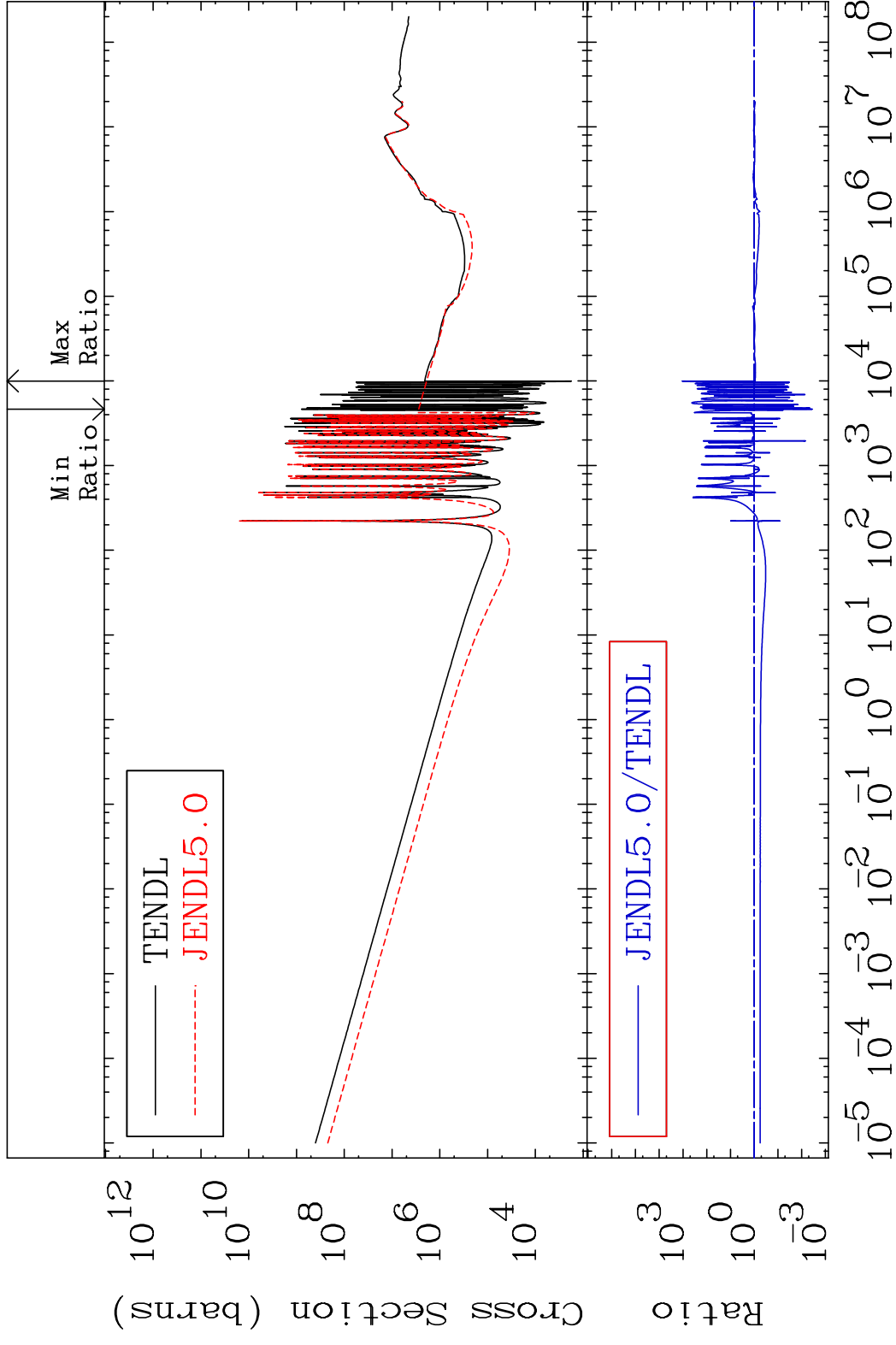
Kerma capture (mt102) 64-Gd-160
Cross Section -99.66 To 9999. %



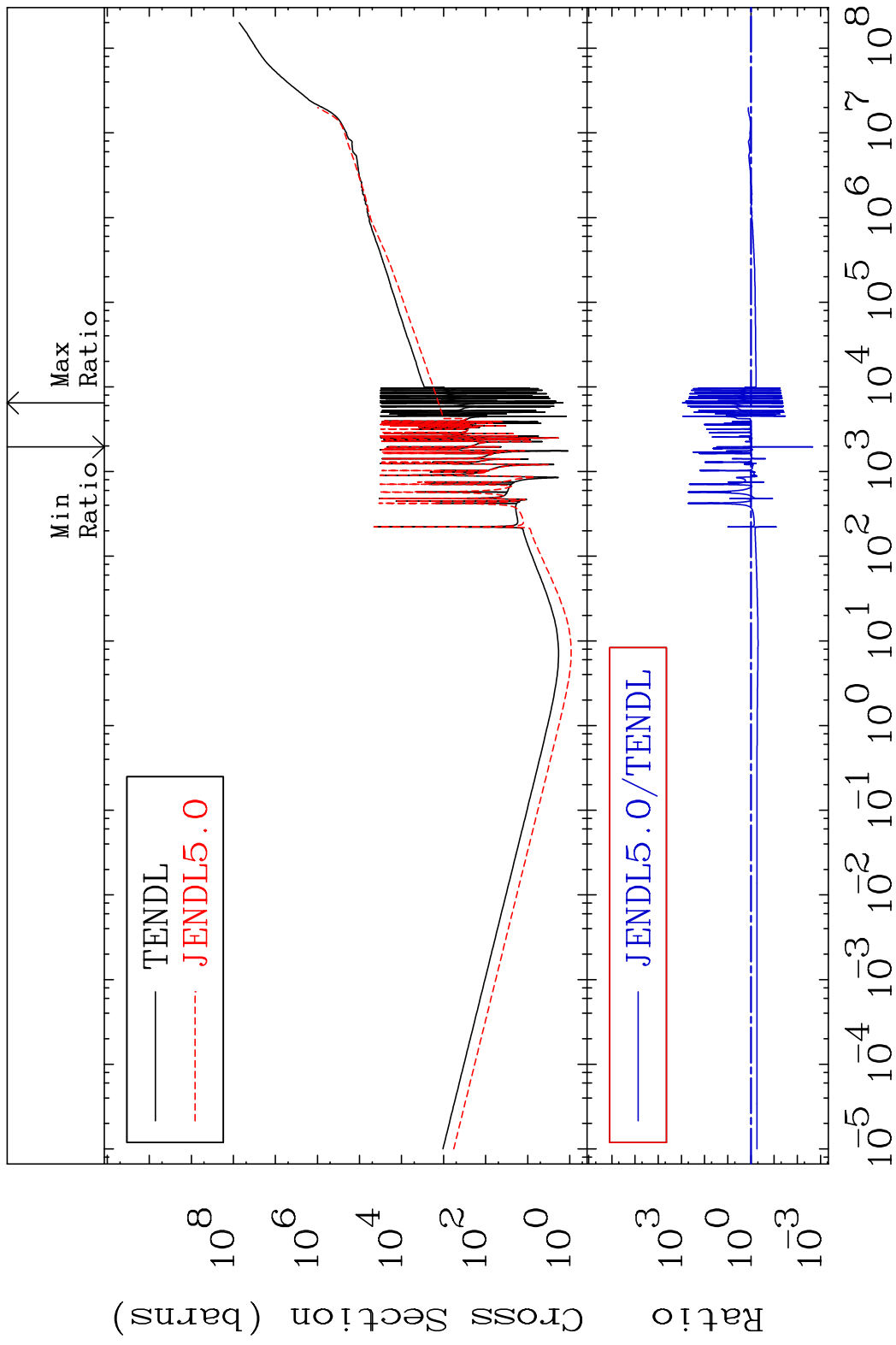
55

Incident Energy (eV) 64-Gd-160

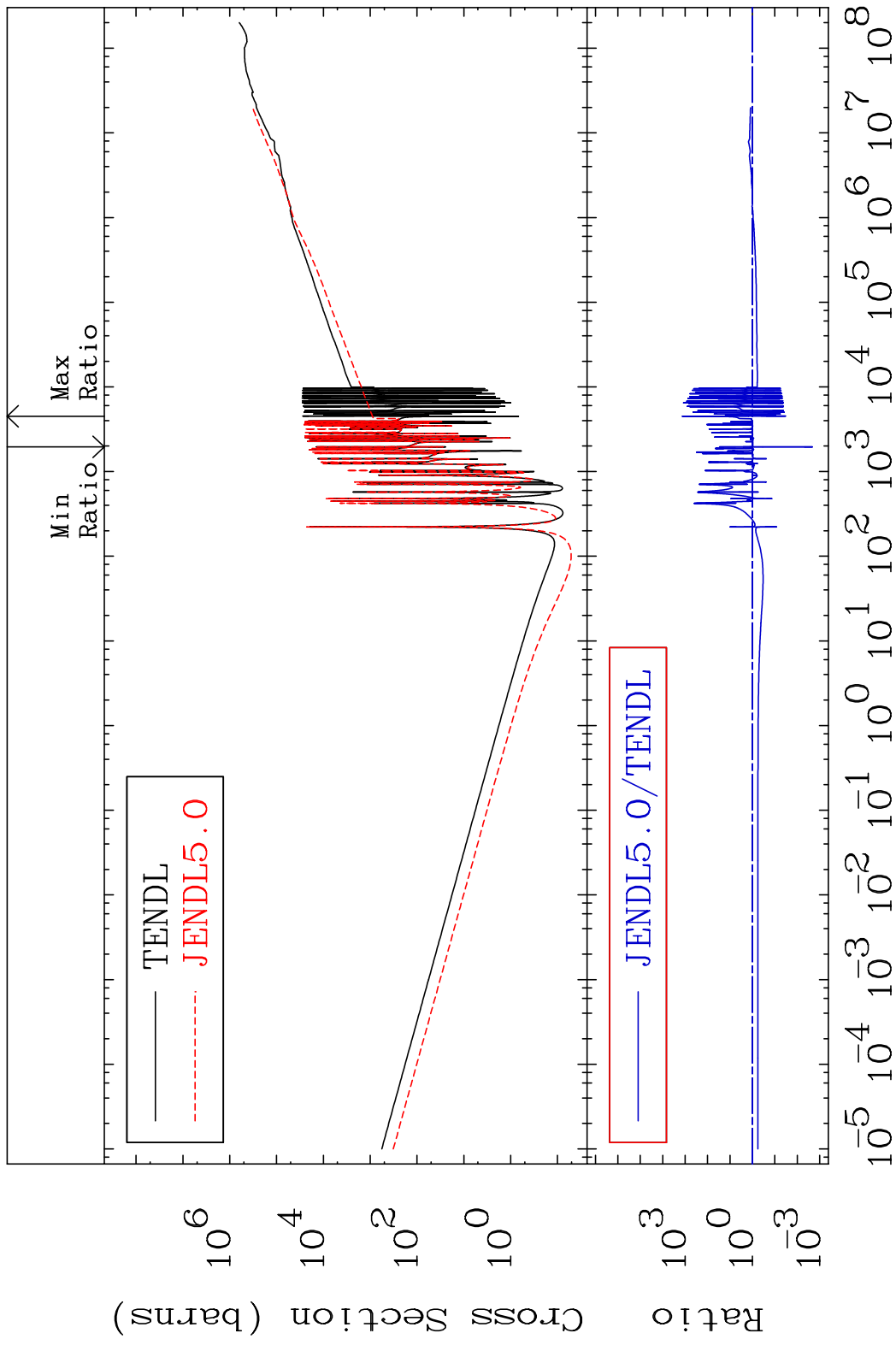
MAT 6449 Total photon (eV-barns) 64-Gd-160
 Cross Section -99.65 To 9999. %



MAT 6449 Total kinematic kerma (high limit) 64-Gd-160
 Cross Section -99.78 To 9999. %



MAT 6449 Dpa total (eV-barns) 64-Gd-160
 Cross Section -99.79 To 9999. %

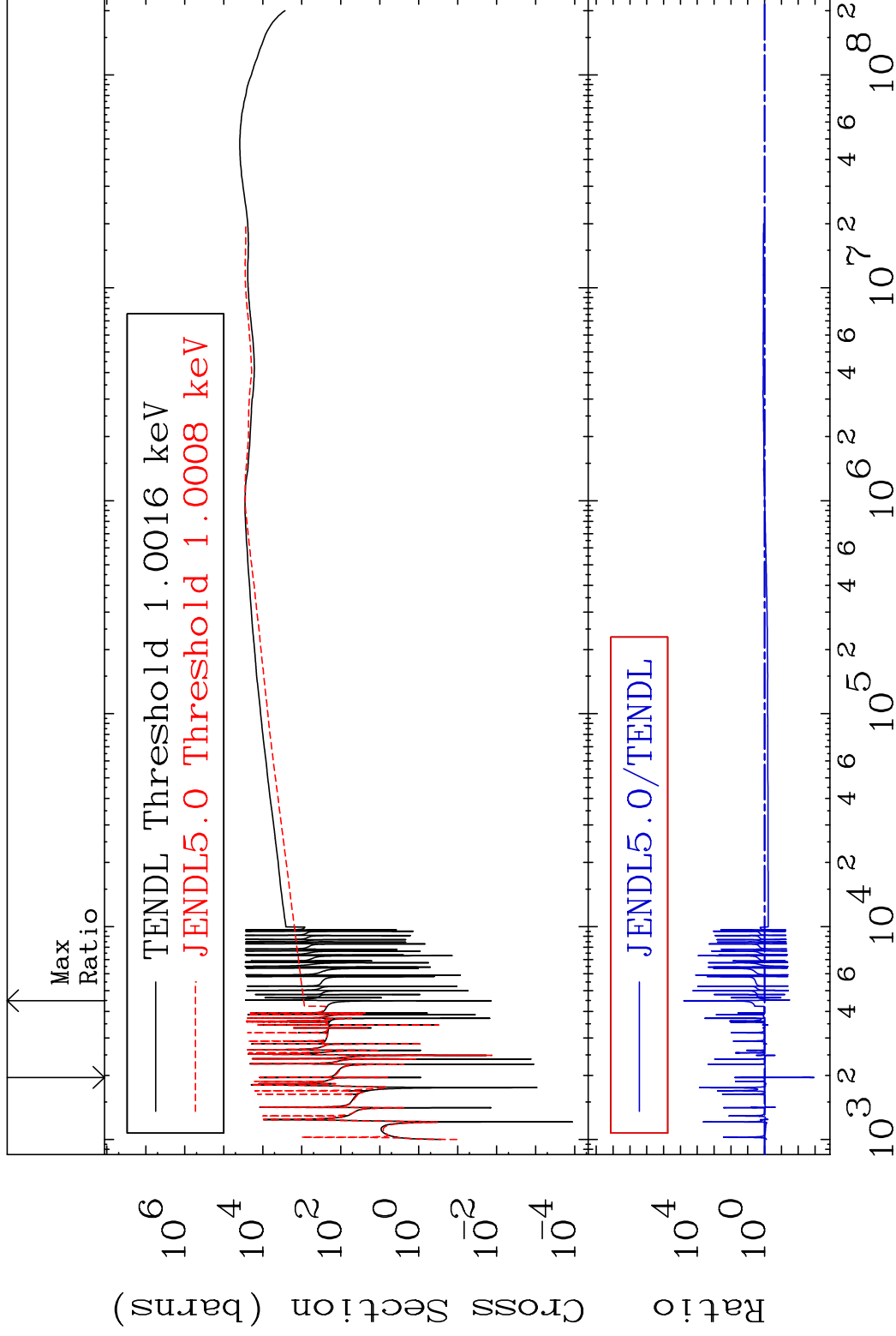


MAT 6449

Dpa elastic (mt2)

64-Gd-160

Cross Section -99.89 To 9999. %



59

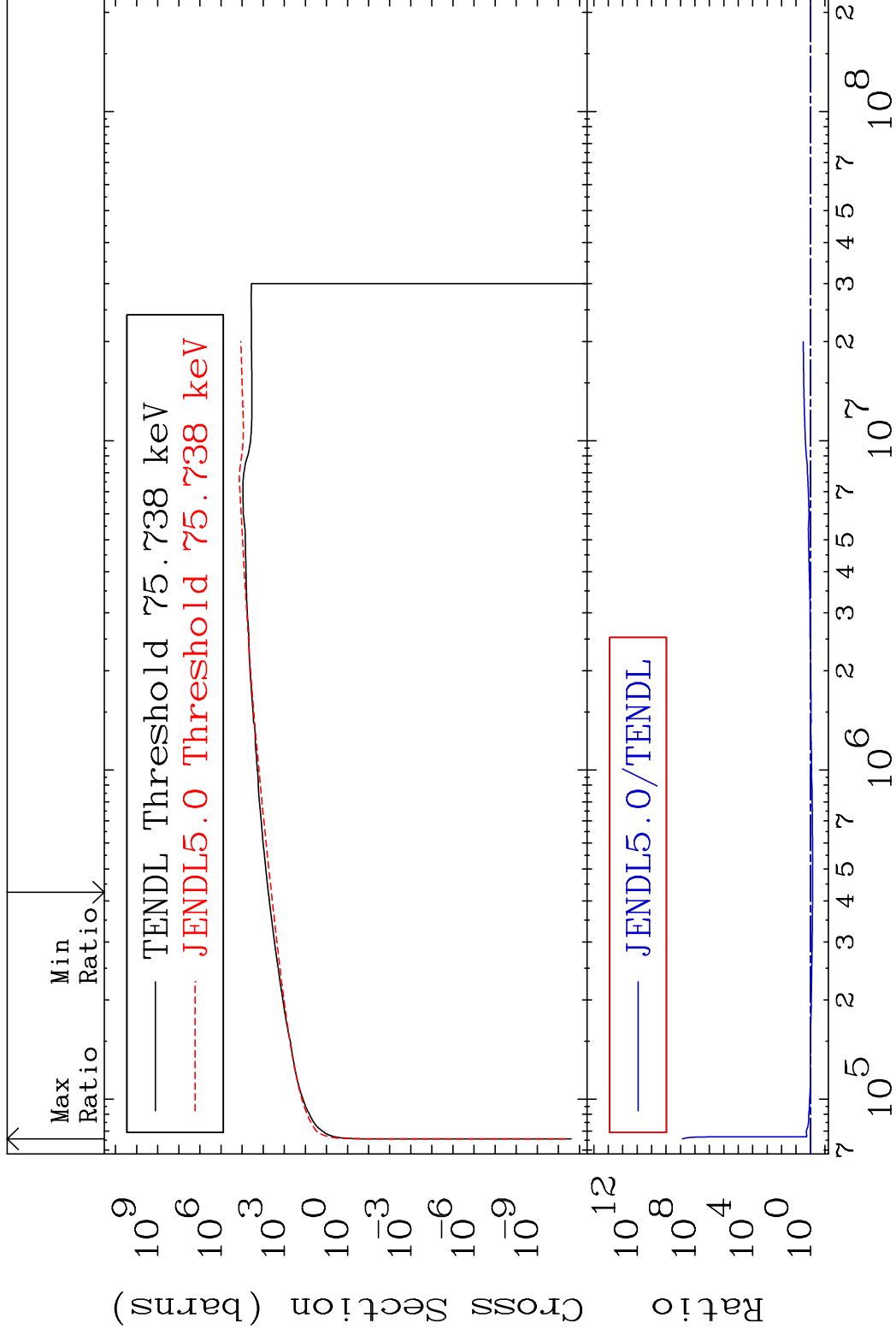
Incident Energy (eV)

64-Gd-160

MAT 6449

Dpa inelastic (mt51-91) 64-Gd-160

Cross Section -28.22 To 9999. %



60

Incident Energy (eV)

64-Gd-160

MAT 6449 Dpa disappearance (mt102 -120) 64-Gd-160
 Cross Section -99.65 To 9999. %

