

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

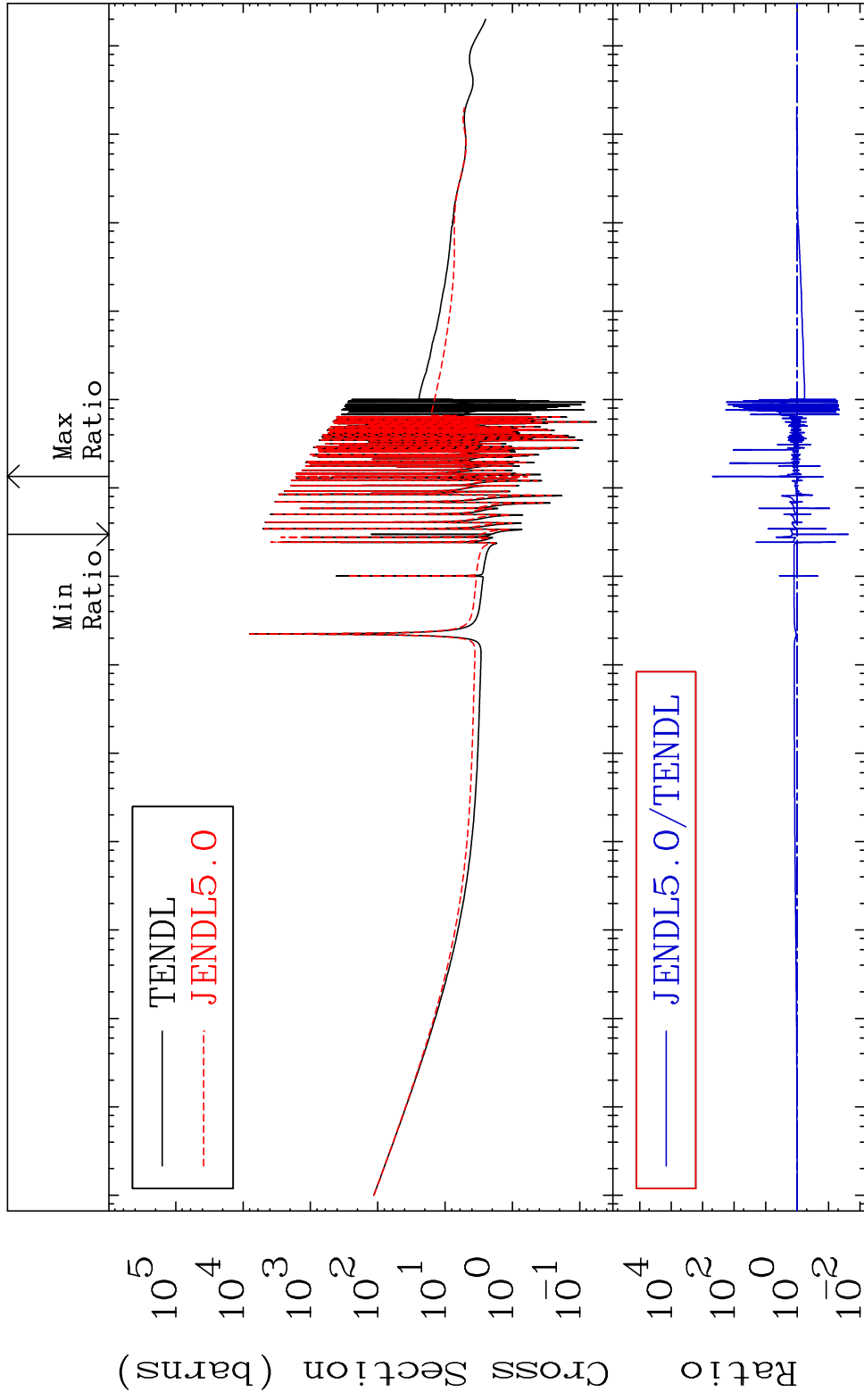
Press Mouse Button to Start

MAT 6443

Total

64-Gd-158

Cross Section -97.63 To 9999. %



1

Incident Energy (eV)

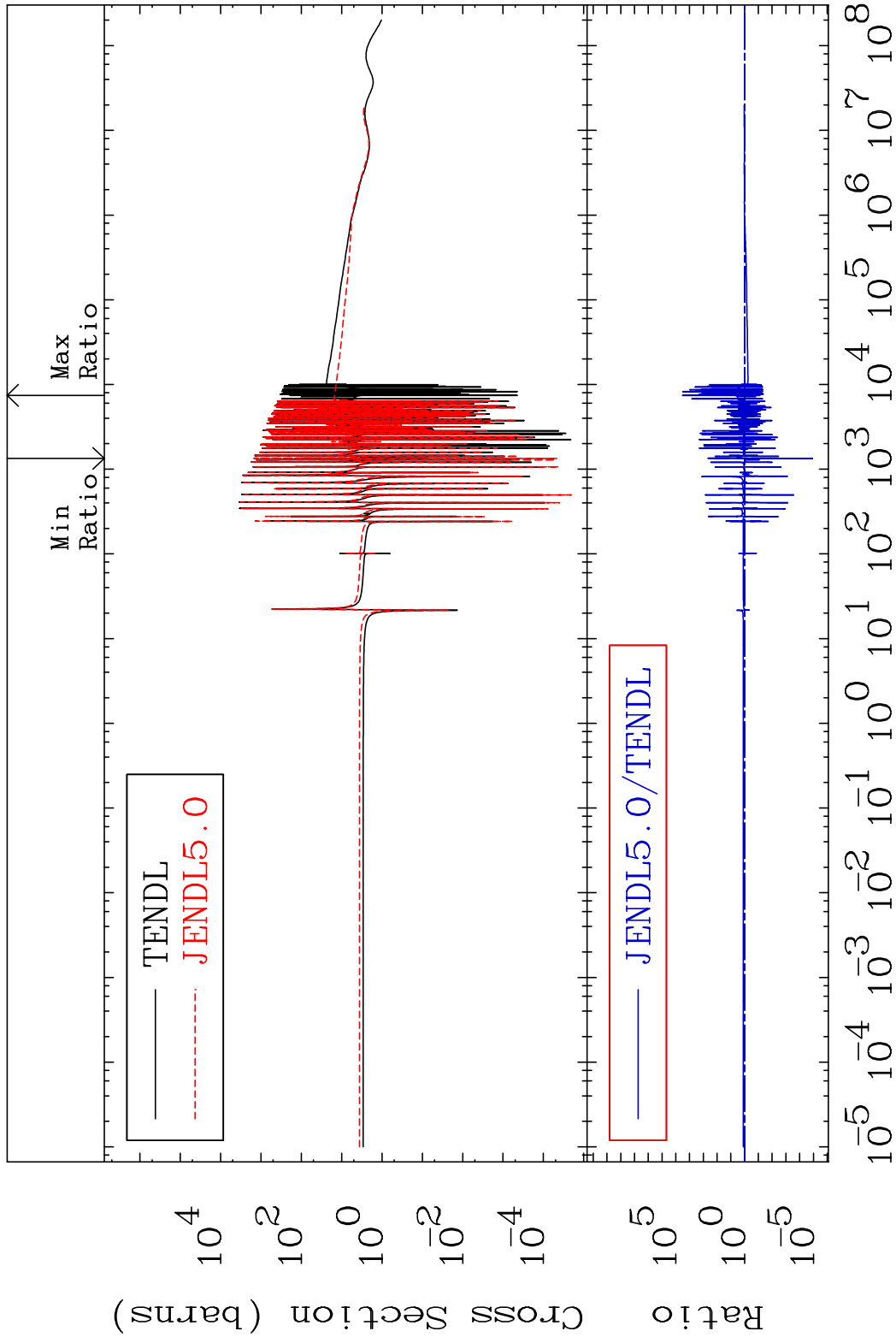
64-Gd-158

MAT 6443

Elastic

64-Gd-158

Cross Section -100.0 To 9999. %



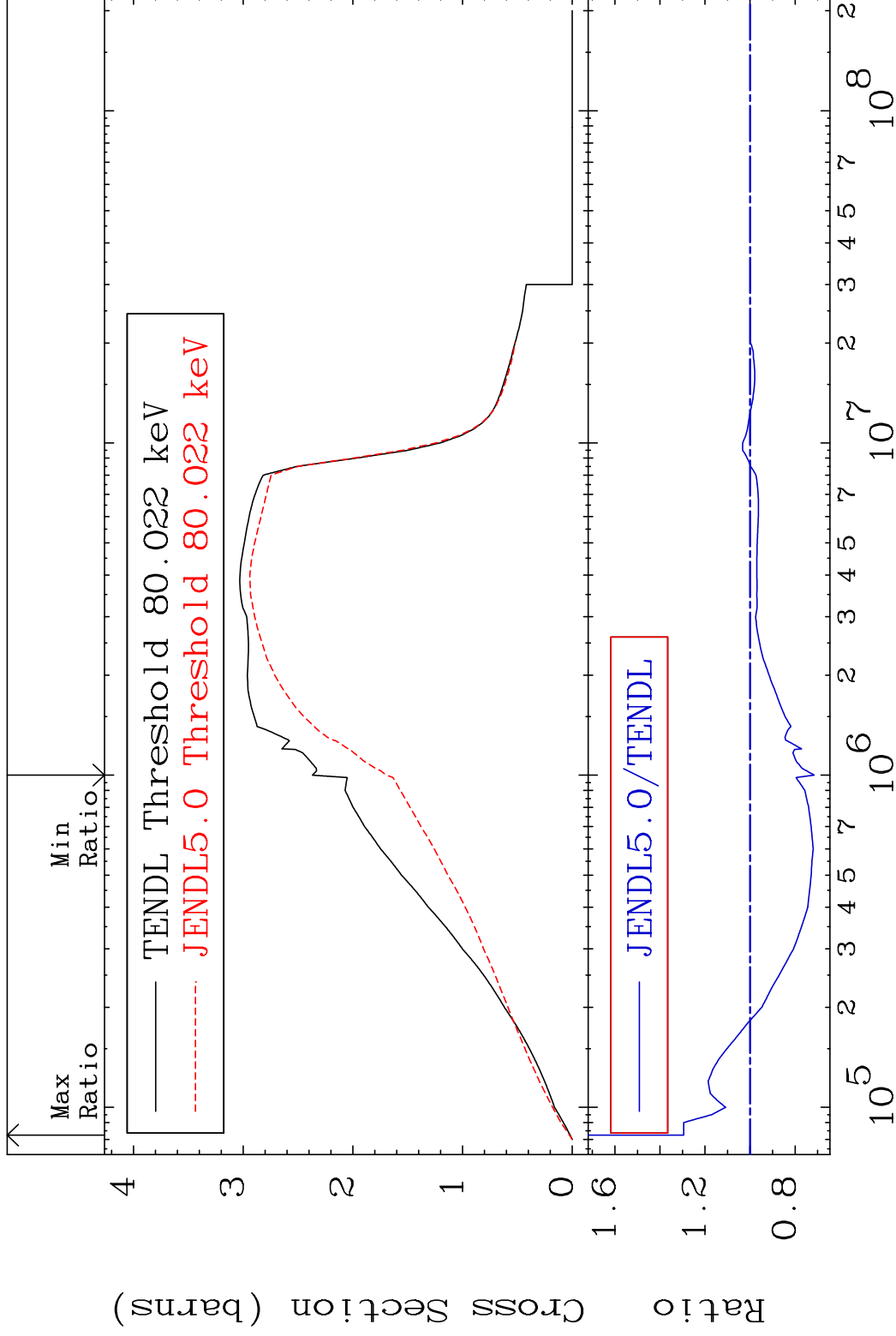
MAT 6443

Inelastic

64-Gd-158

Cross Section

-28.44 To 29.48 %



3

Incident Energy (eV)

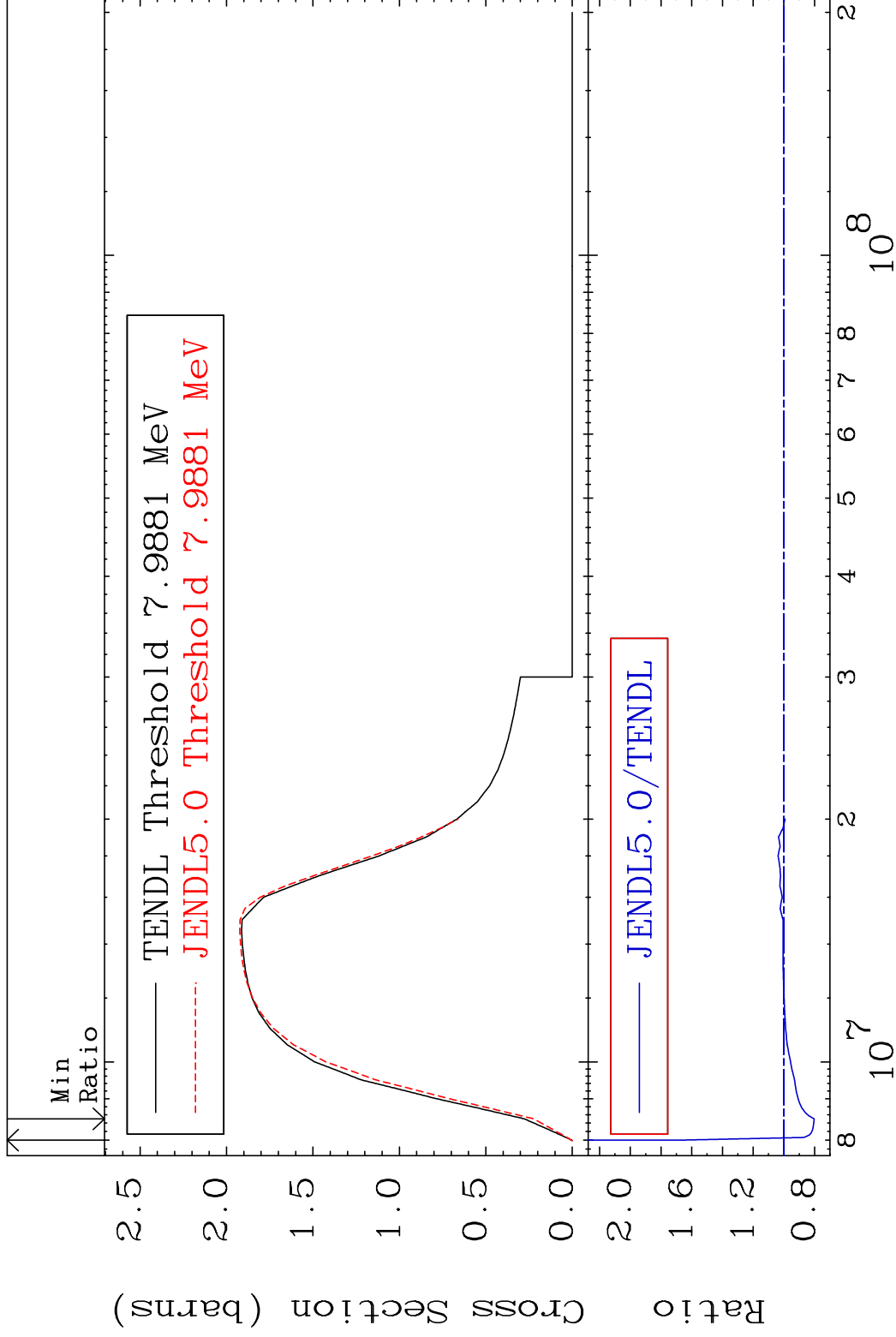
64-Gd-158

MAT 6443

(n,2n)

64-Gd-158

Cross Section -19.69 To 65.26 %



4

Incident Energy (eV)

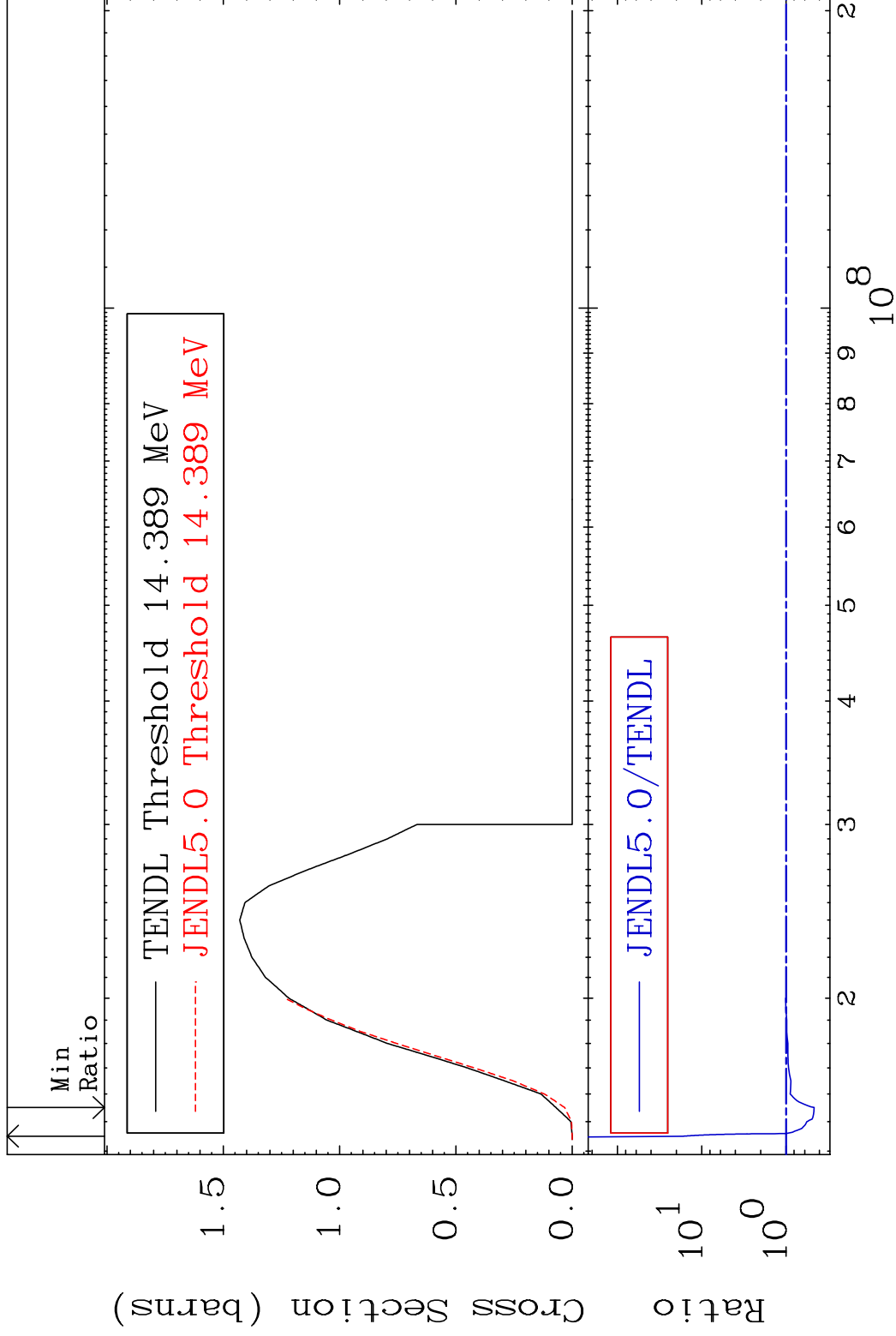
64-Gd-158

MAT 6443

(n,3n)

64-Gd-158

Cross Section -53.63 To 1539. %



5

Incident Energy (eV)

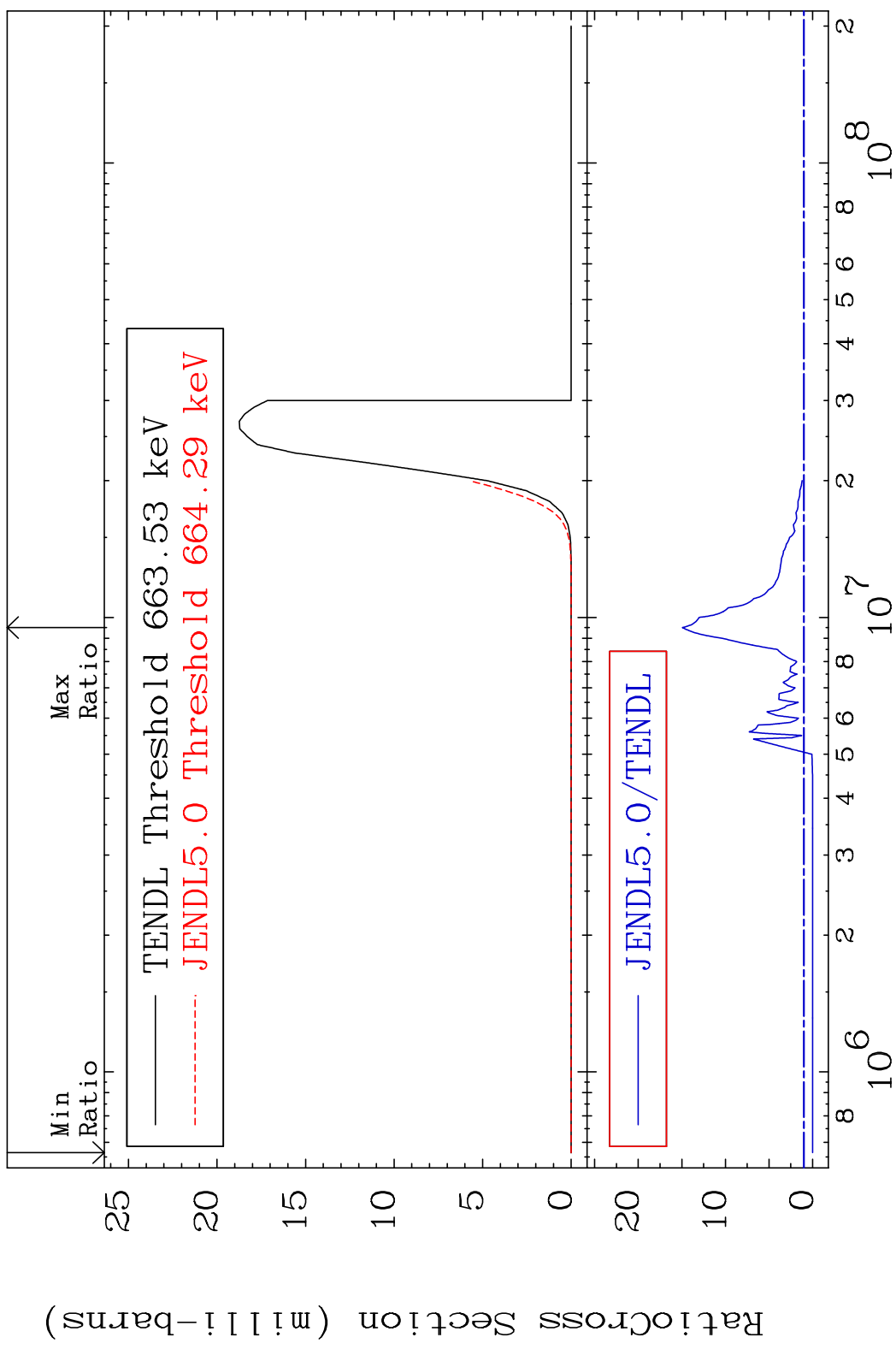
64-Gd-158

MAT 6443

(n, n') α

64-Gd-158

Cross Section -100.0 To 1394. %



6

Incident Energy (eV)

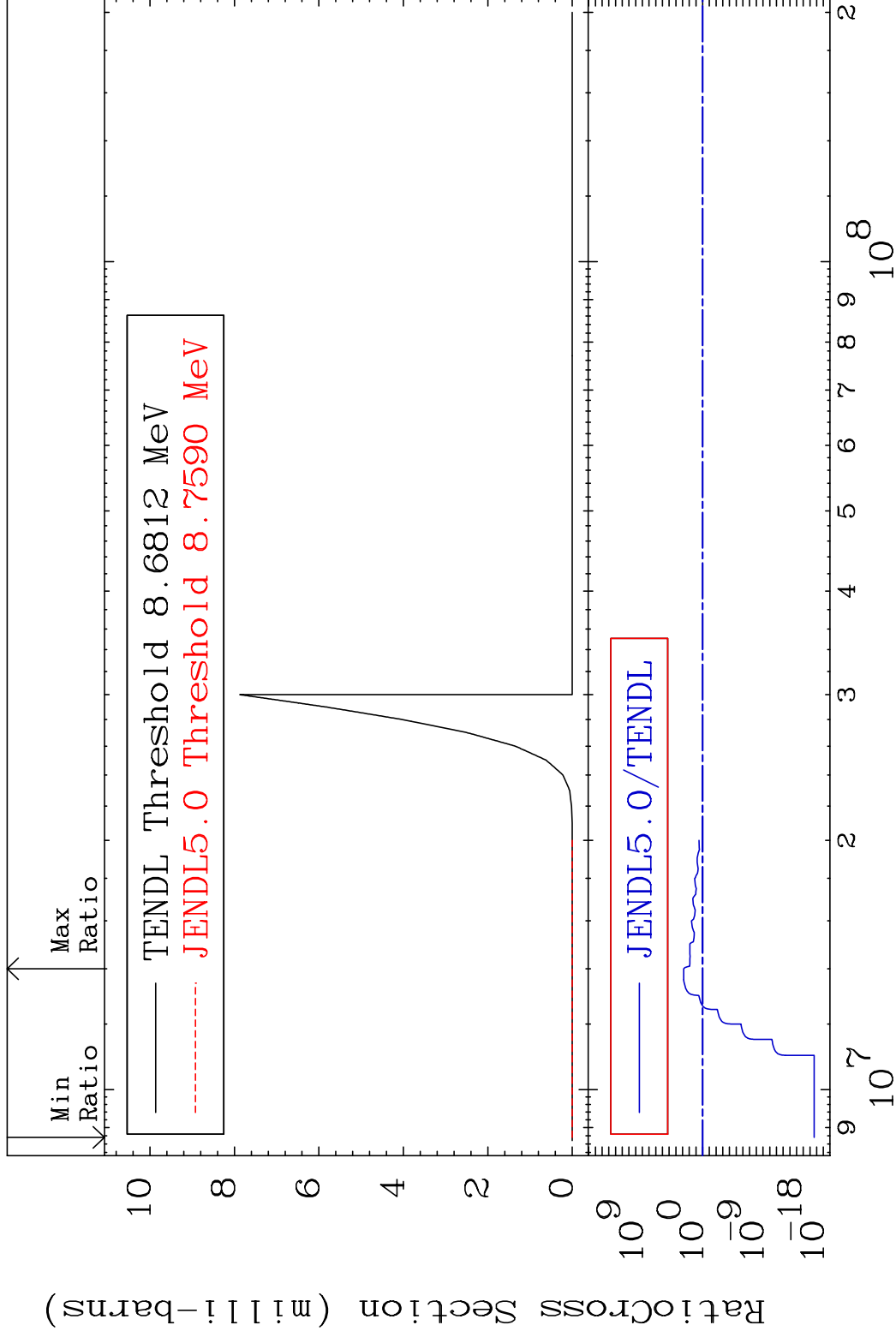
64-Gd-158

MAT 6443

(n,2n) α

64-Gd-158

Cross Section -100.0 To 9999. %



7

Incident Energy (eV)

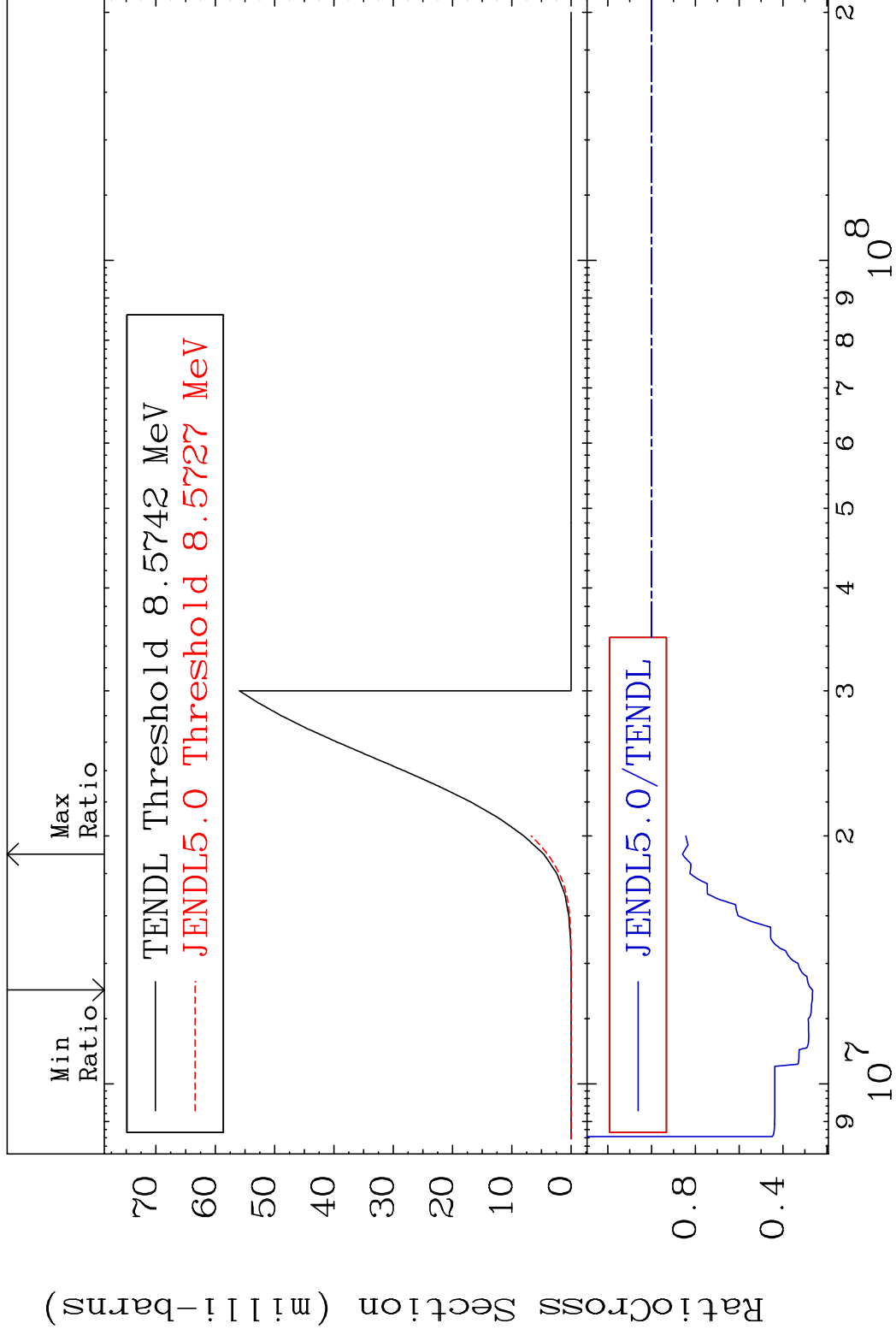
64-Gd-158

MAT 6443

(n, n') p

64-Gd-158

Cross Section -73.46 To -14.04%



8

Incident Energy (eV)

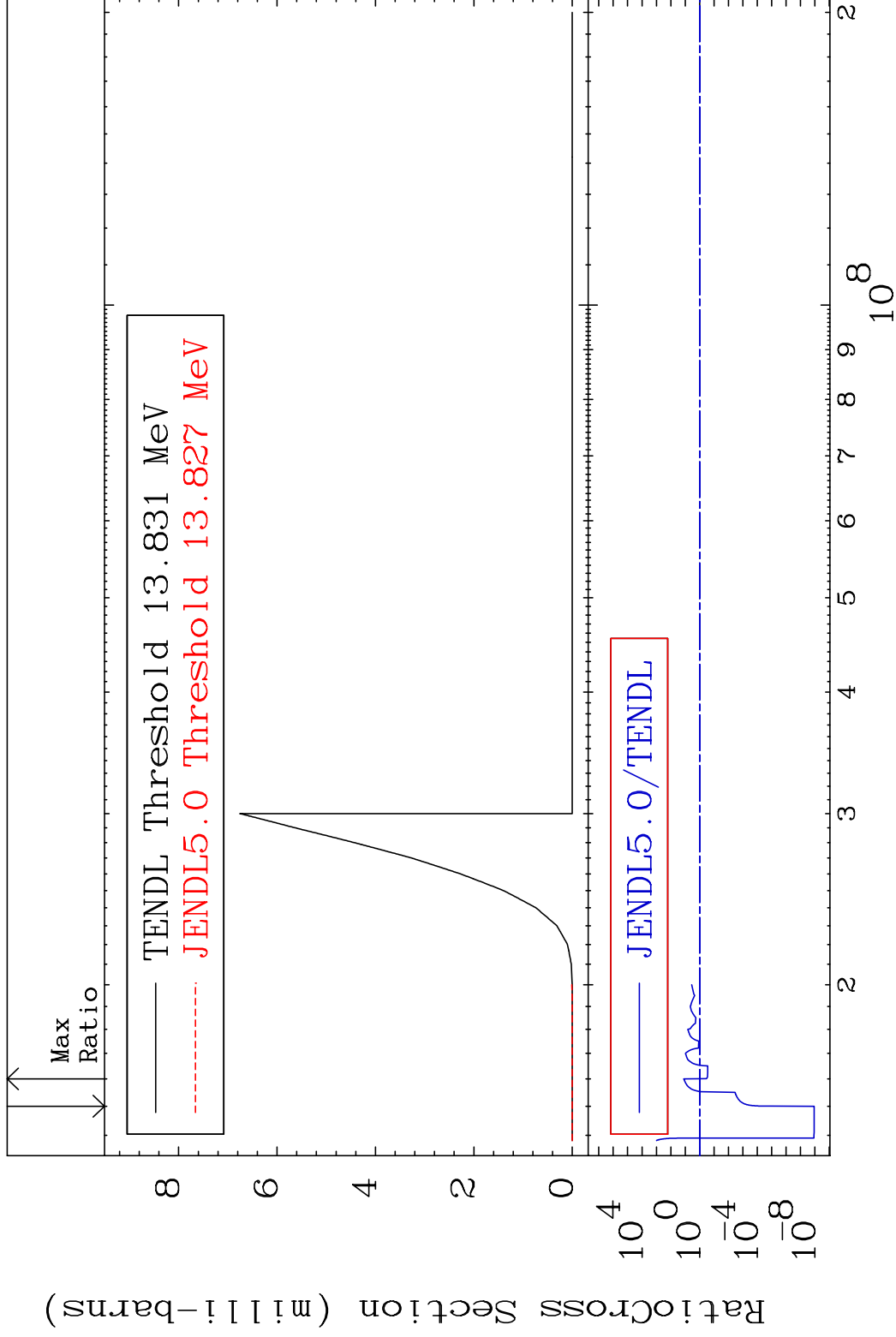
64-Gd-158

MAT 6443

(n, n') d

64-Gd-158

Cross Section -100.0 To 1183. %

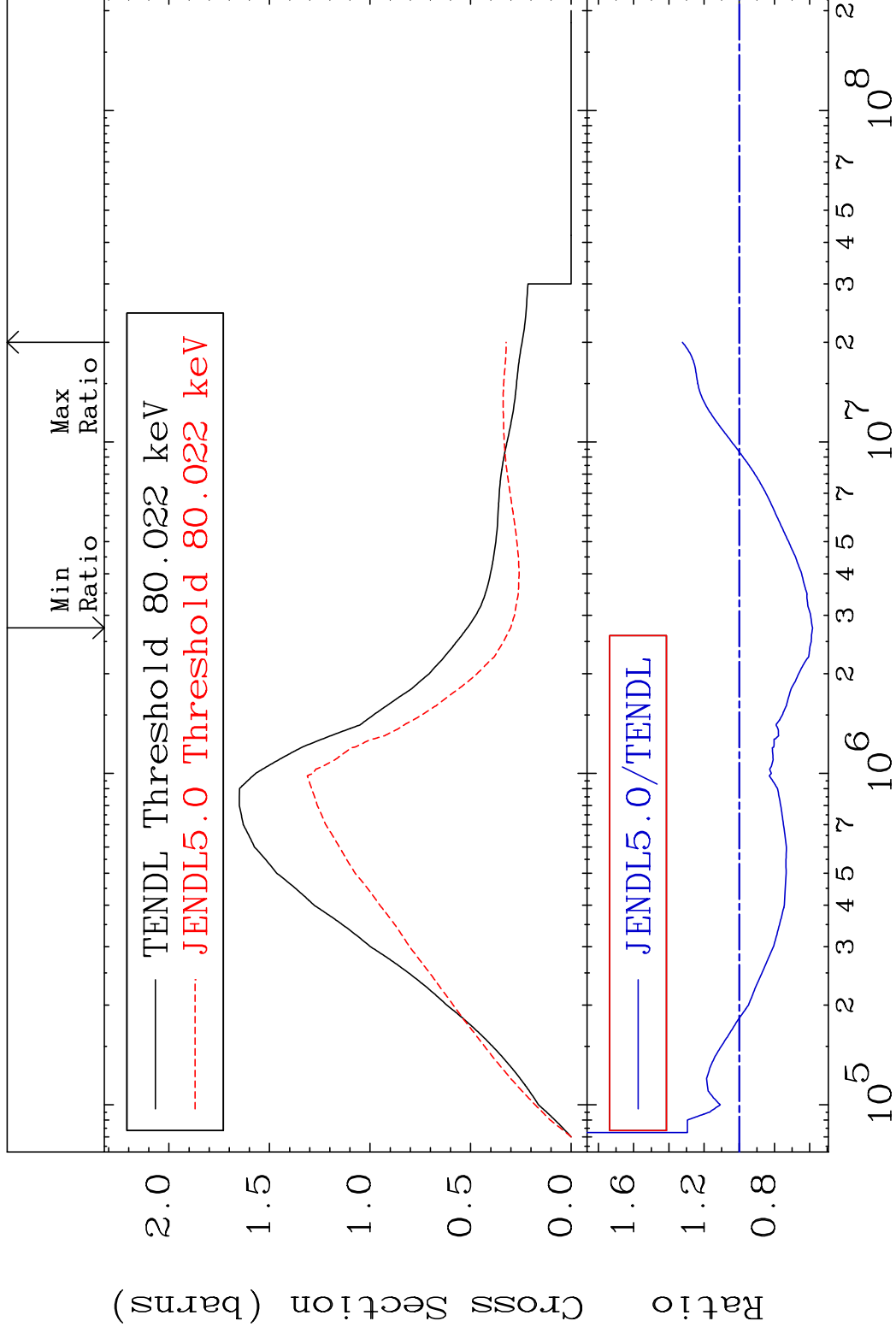


MAT 6443

MT= 51 (n, n') Level

64-Gd-158

Cross Section -41.64 To 32.35 %

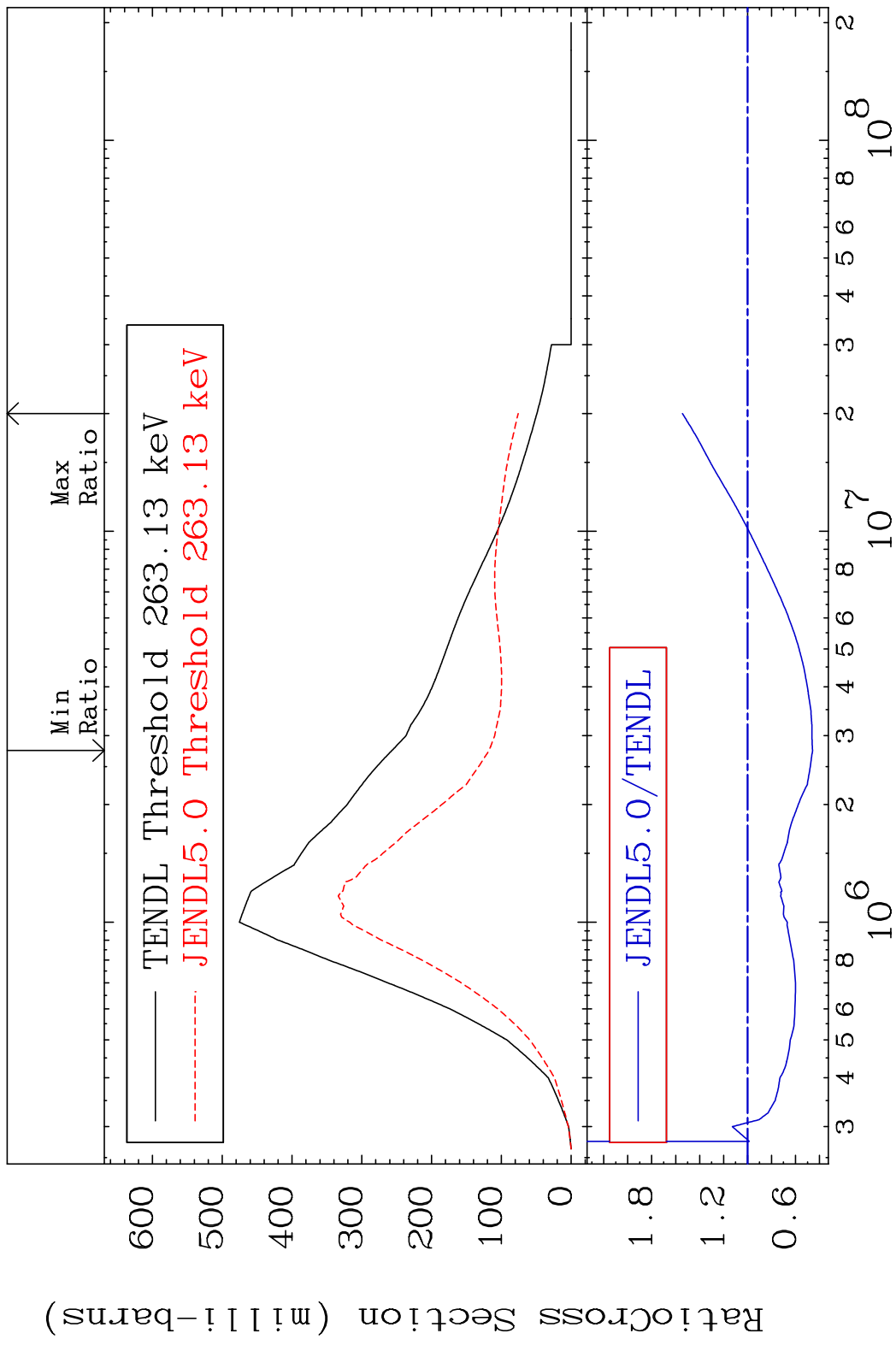


10

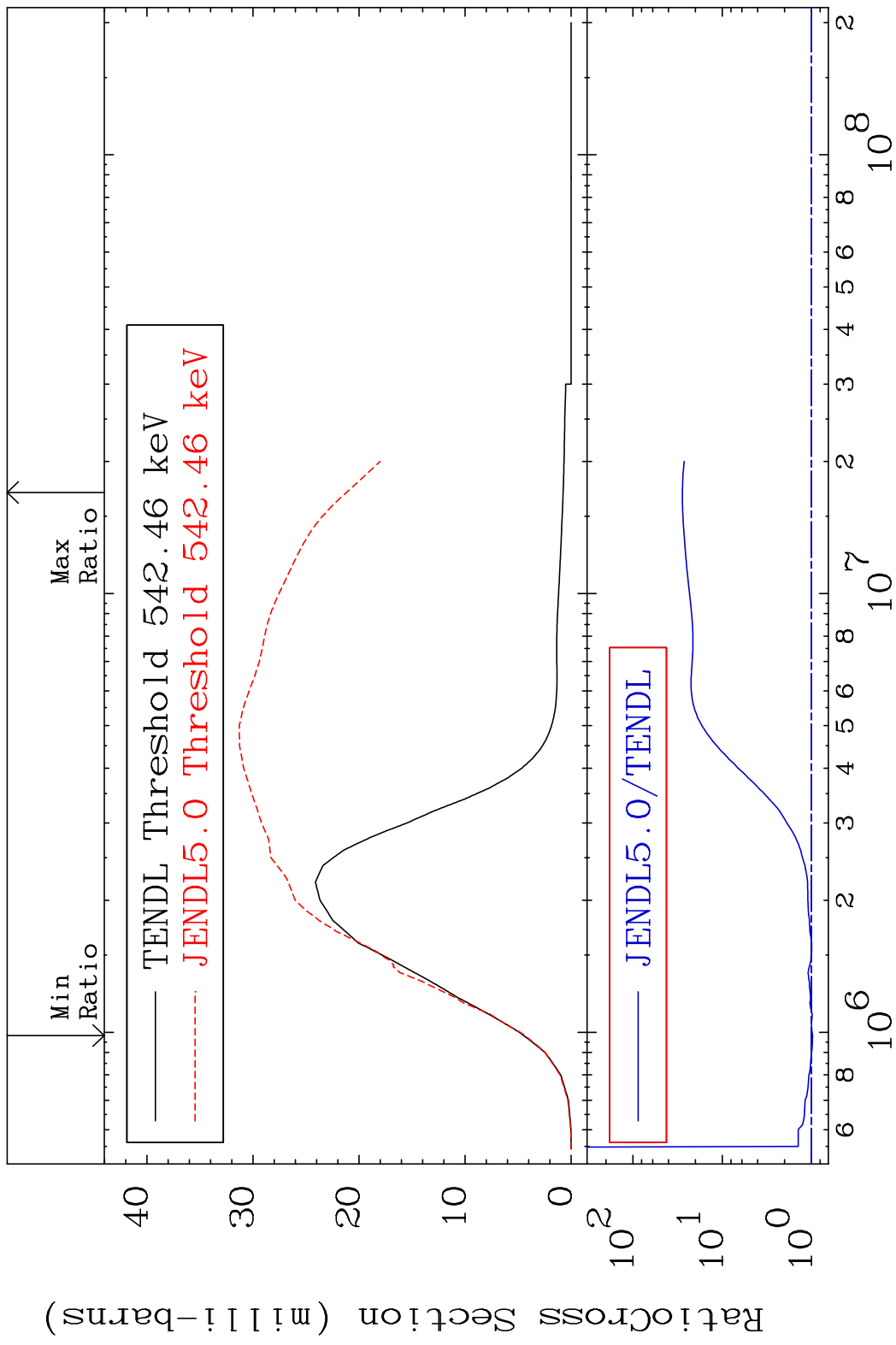
Incident Energy (eV)

64-Gd-158

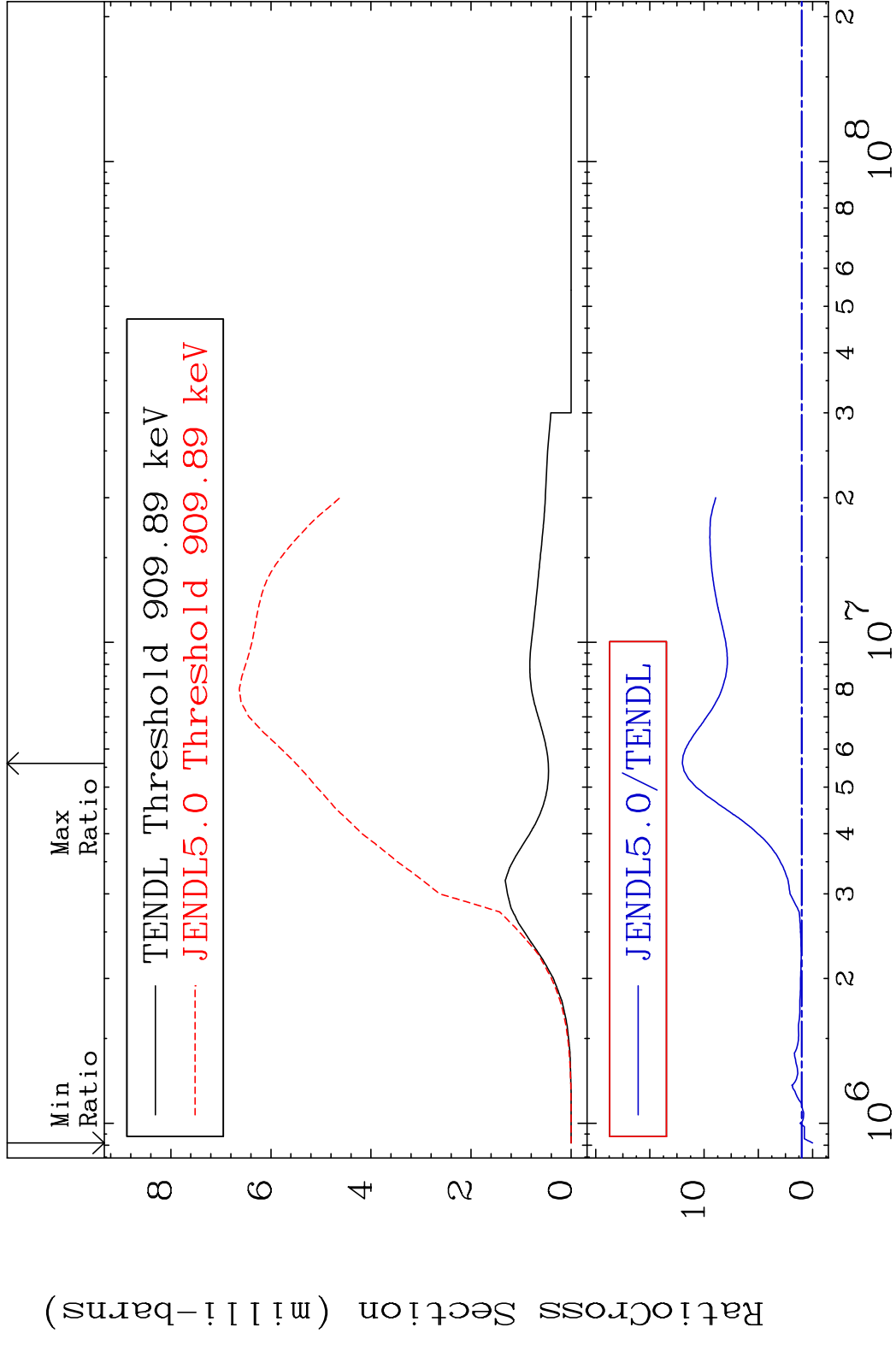
MAT 6443 MT= 52 (n, n') Level 64-Gd-158
 Cross Section -54.24 To 54.43 %



MAT 6443 MT= 53 (n, n') Level 64-Gd-158
 Cross Section -2.672 To 2693. %



MAT 6443 MT= 54 (n,n') Level 64-Gd-158
 Cross Section -100.0 To 1101. %



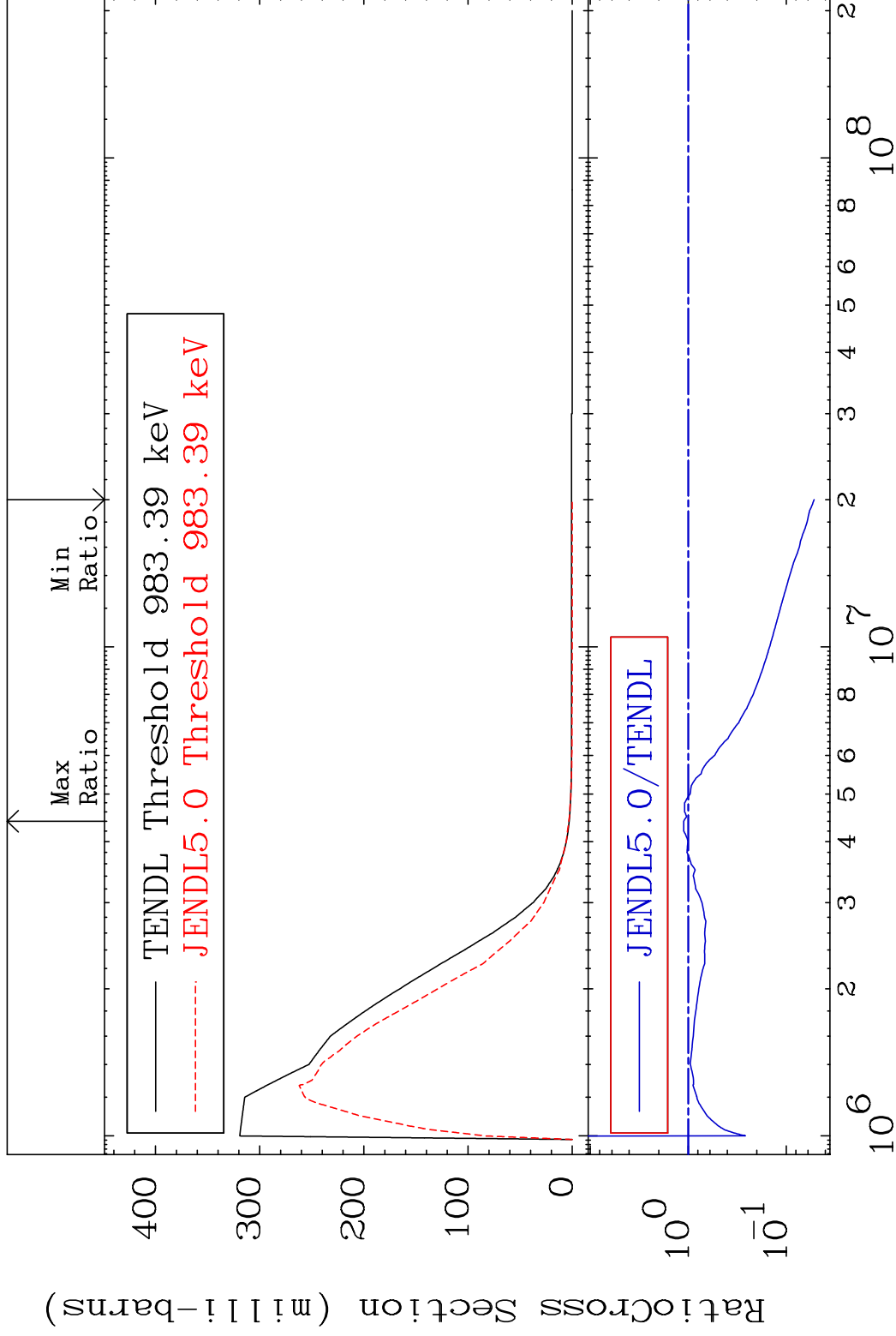
13 Incident Energy (eV) 64-Gd-158

MAT 6443

MT= 55 (n, n') Level

64-Gd-158

Cross Section -94.79 To 11.37 %

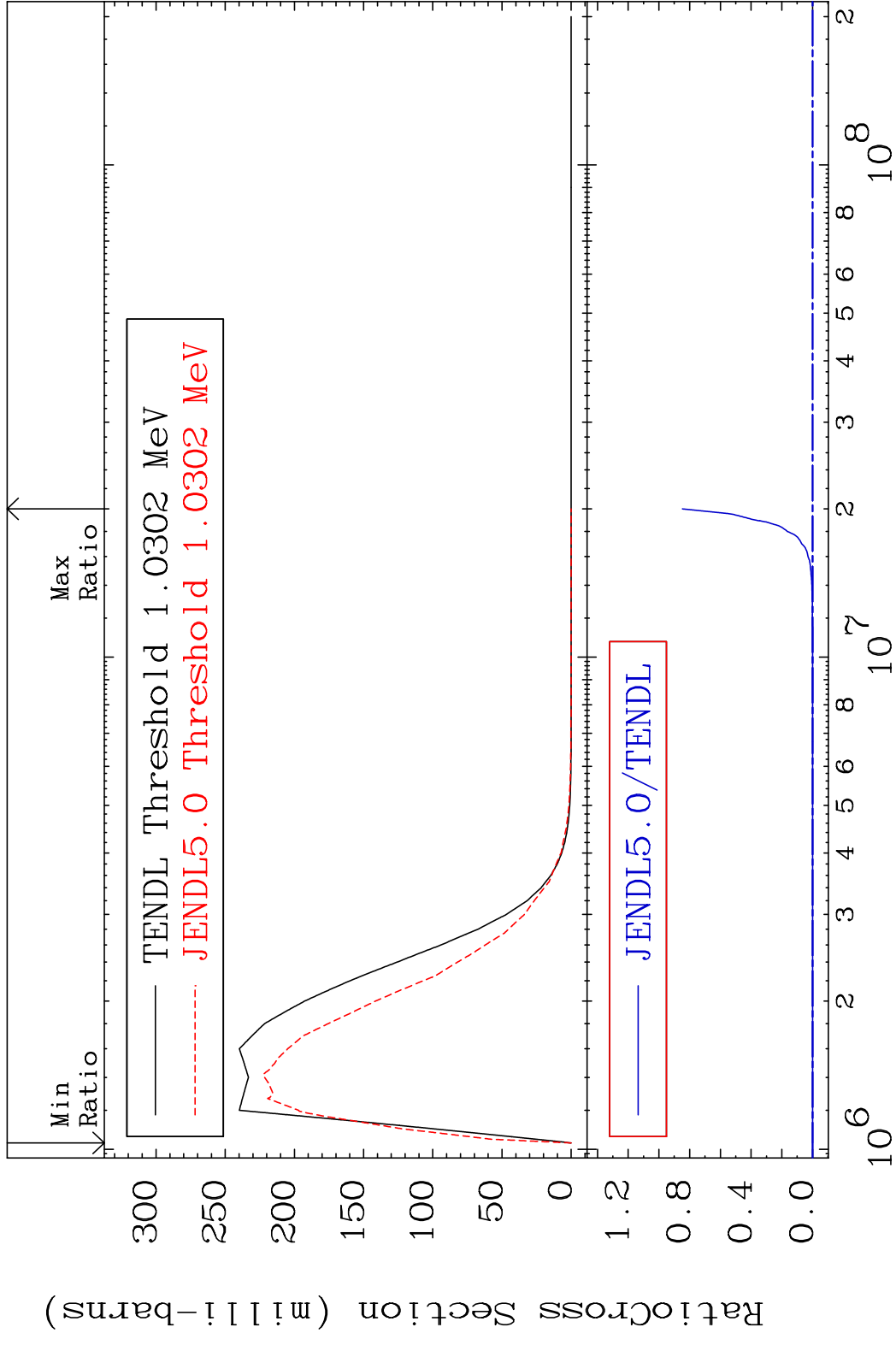


14

Incident Energy (eV)

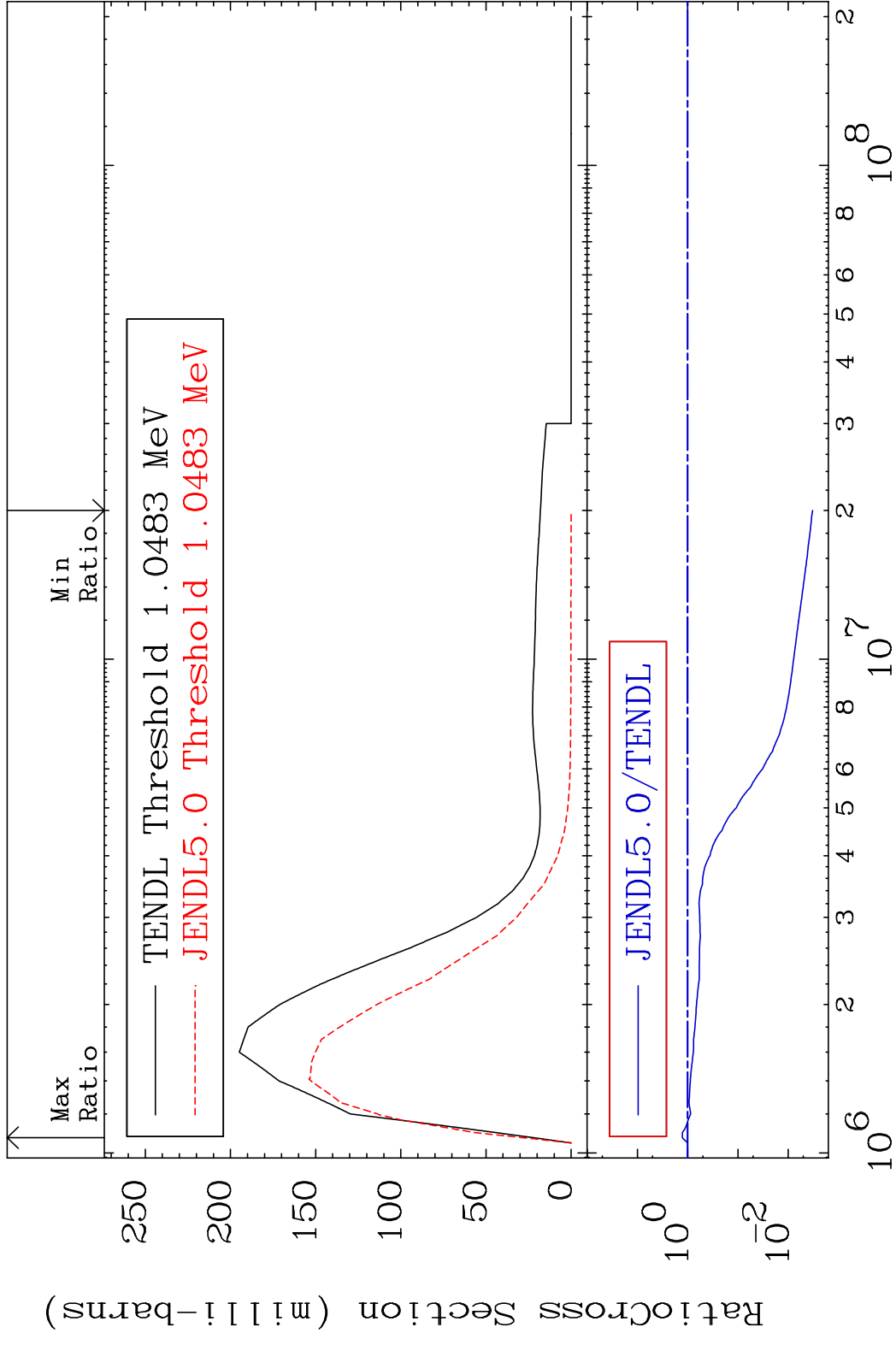
64-Gd-158

MAT 6443 MT= 56 (n, n') Level 64-Gd-158
 Cross Section -100.0 To 9999. %



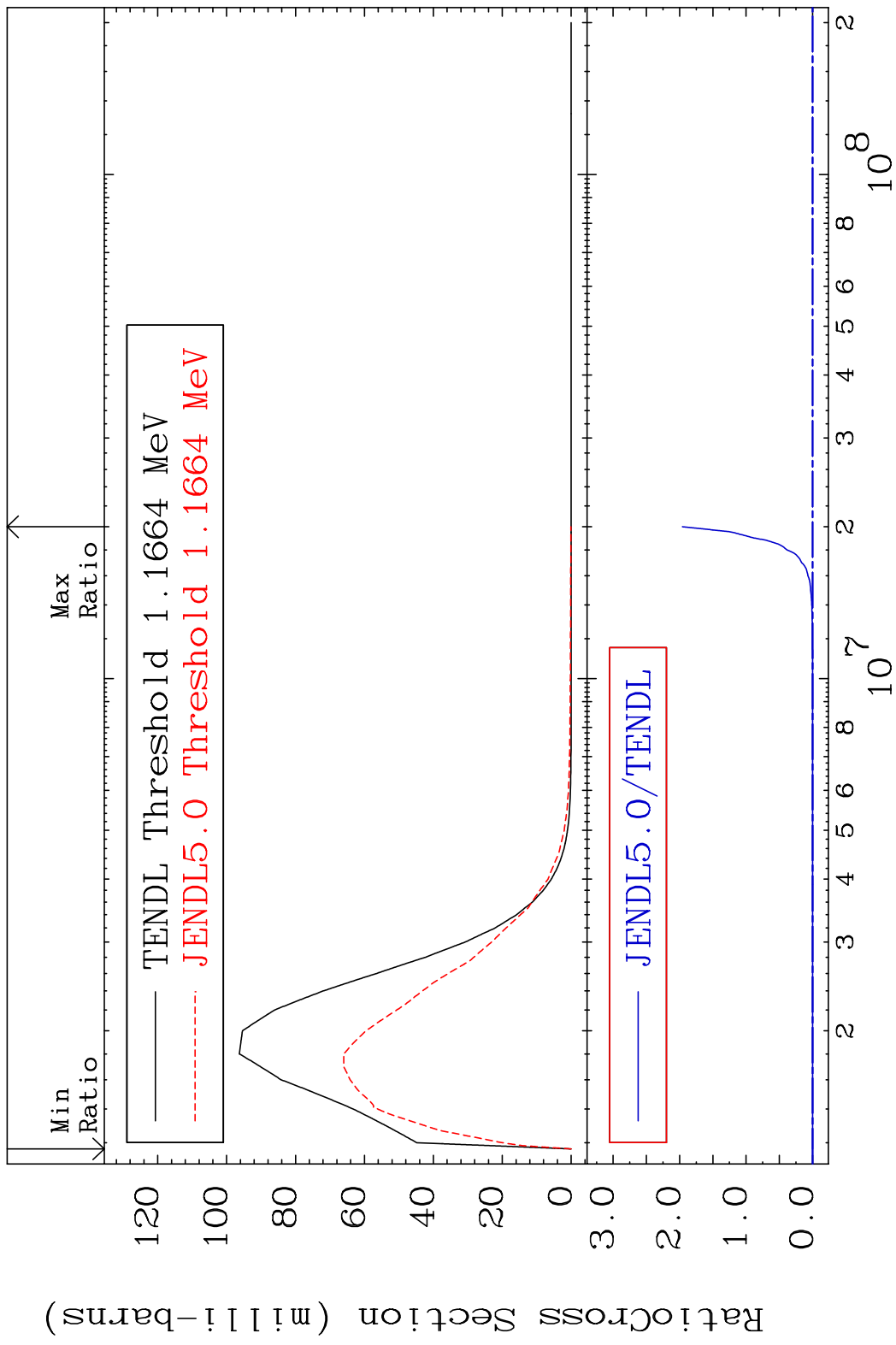
15 Incident Energy (eV) 64-Gd-158

MAT 6443 MT= 57 (n, n') Level 64-Gd-158
 Cross Section -99.67 To 27.93 %

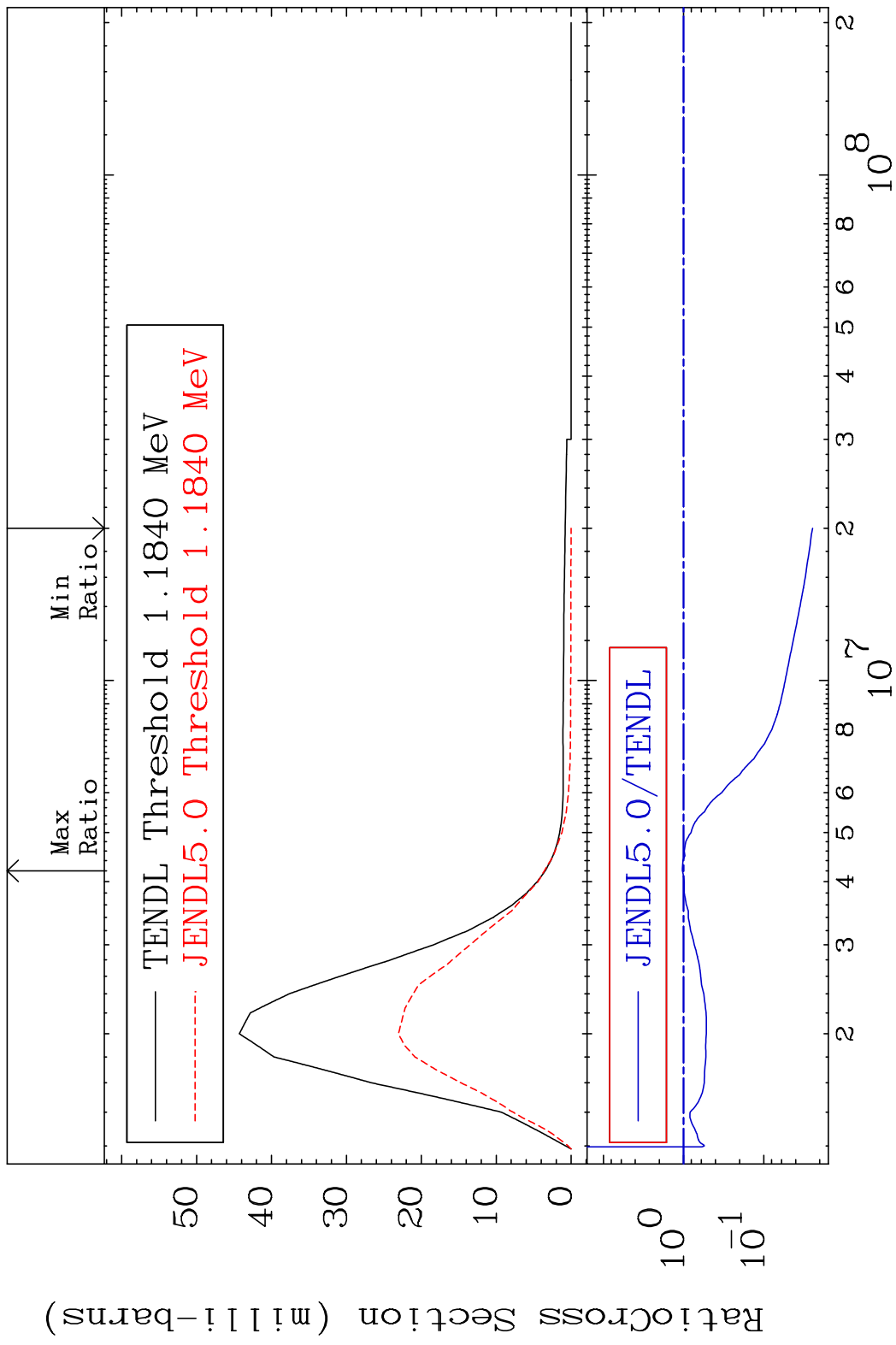


16 Incident Energy (eV) 64-Gd-158

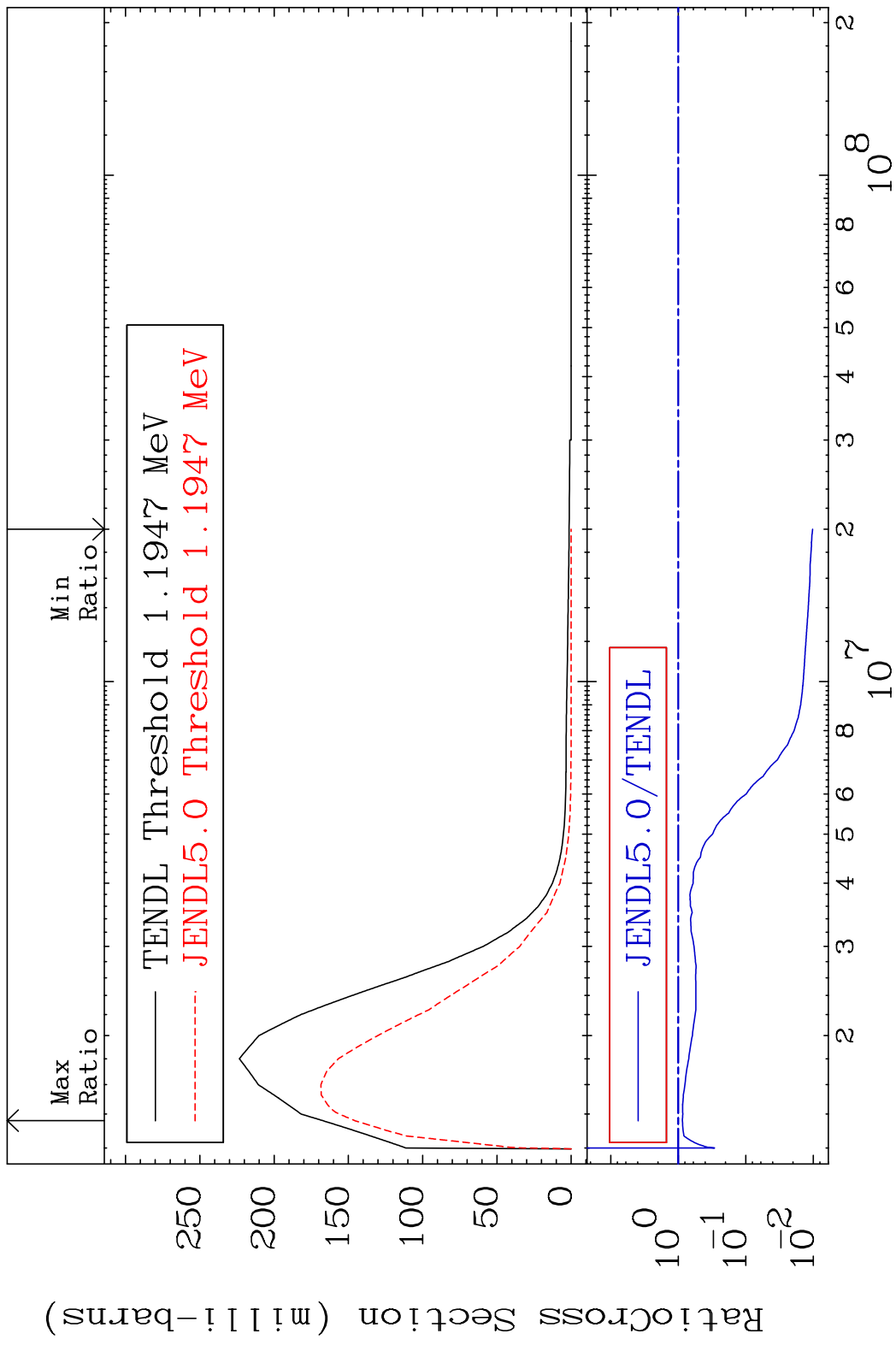
MAT 6443 MT= 58 (n, n') Level 64-Gd-158
 Cross Section -100.0 To 9999. %



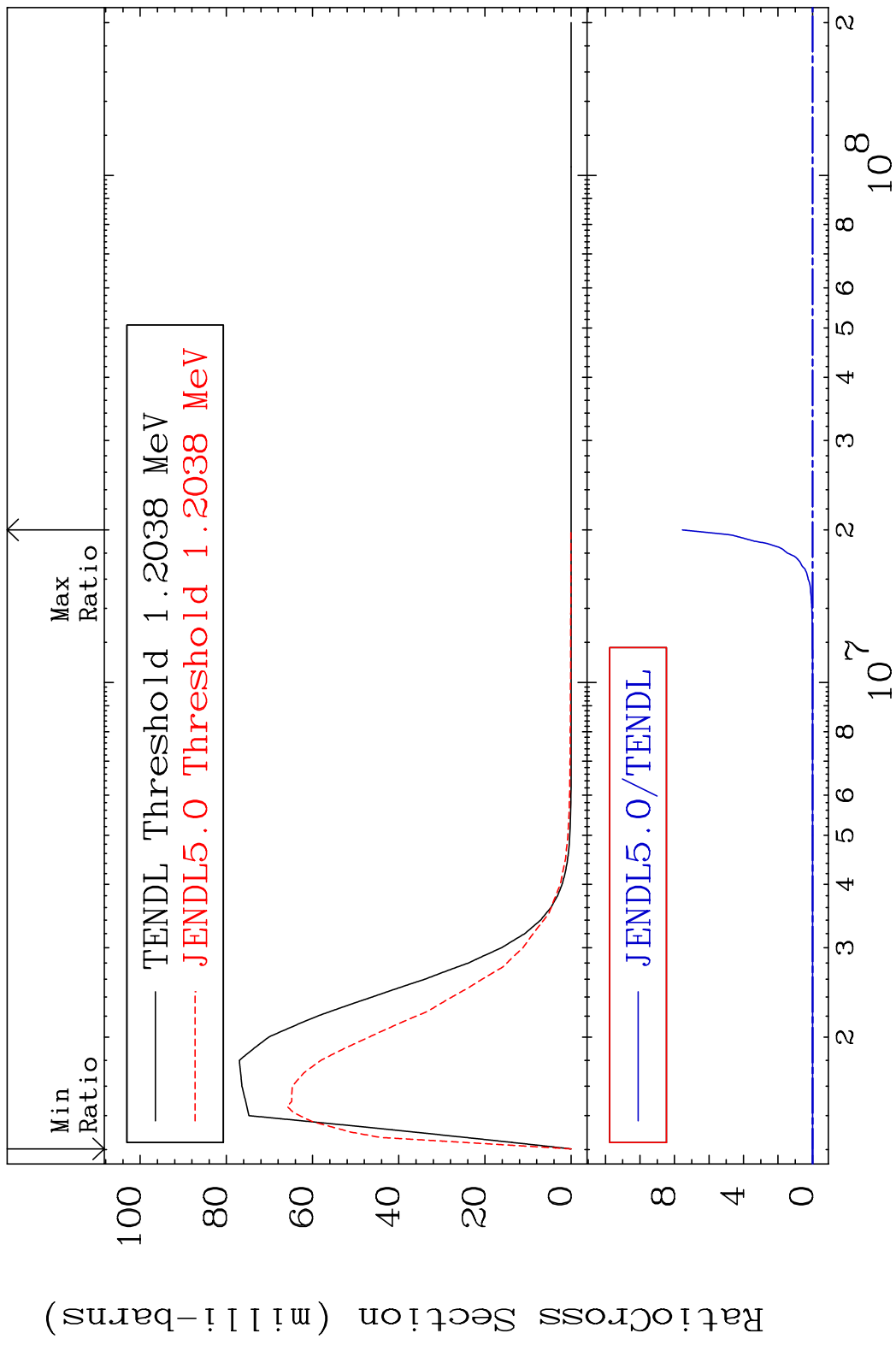
MAT 6443 MT= 59 (n, n') Level 64-Gd-158
 Cross Section -97.54 To 3.511 %



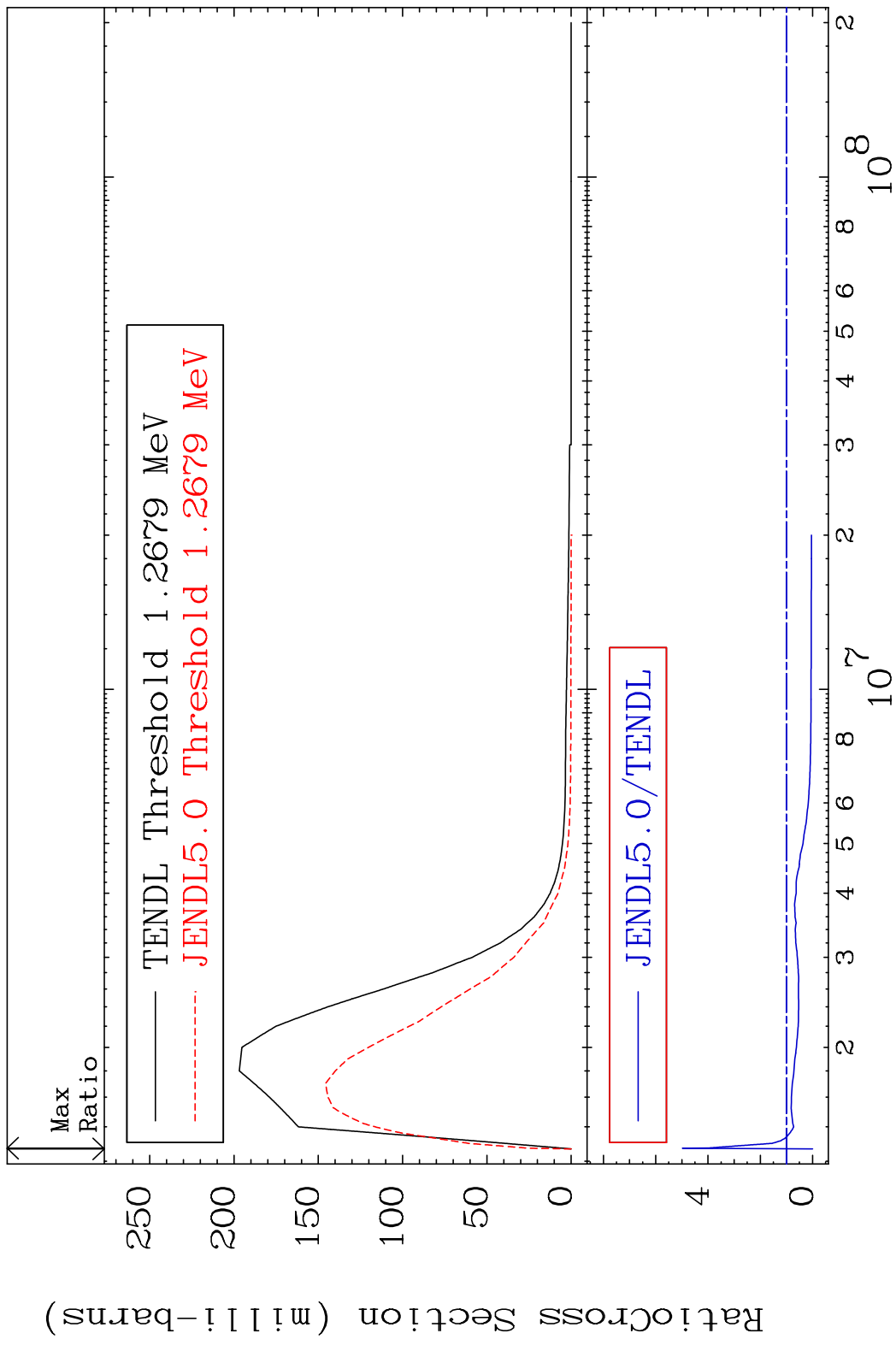
MAT 6443 MT= 60 (n, n') Level 64-Gd-158
 Cross Section -98.97 To -12.89%



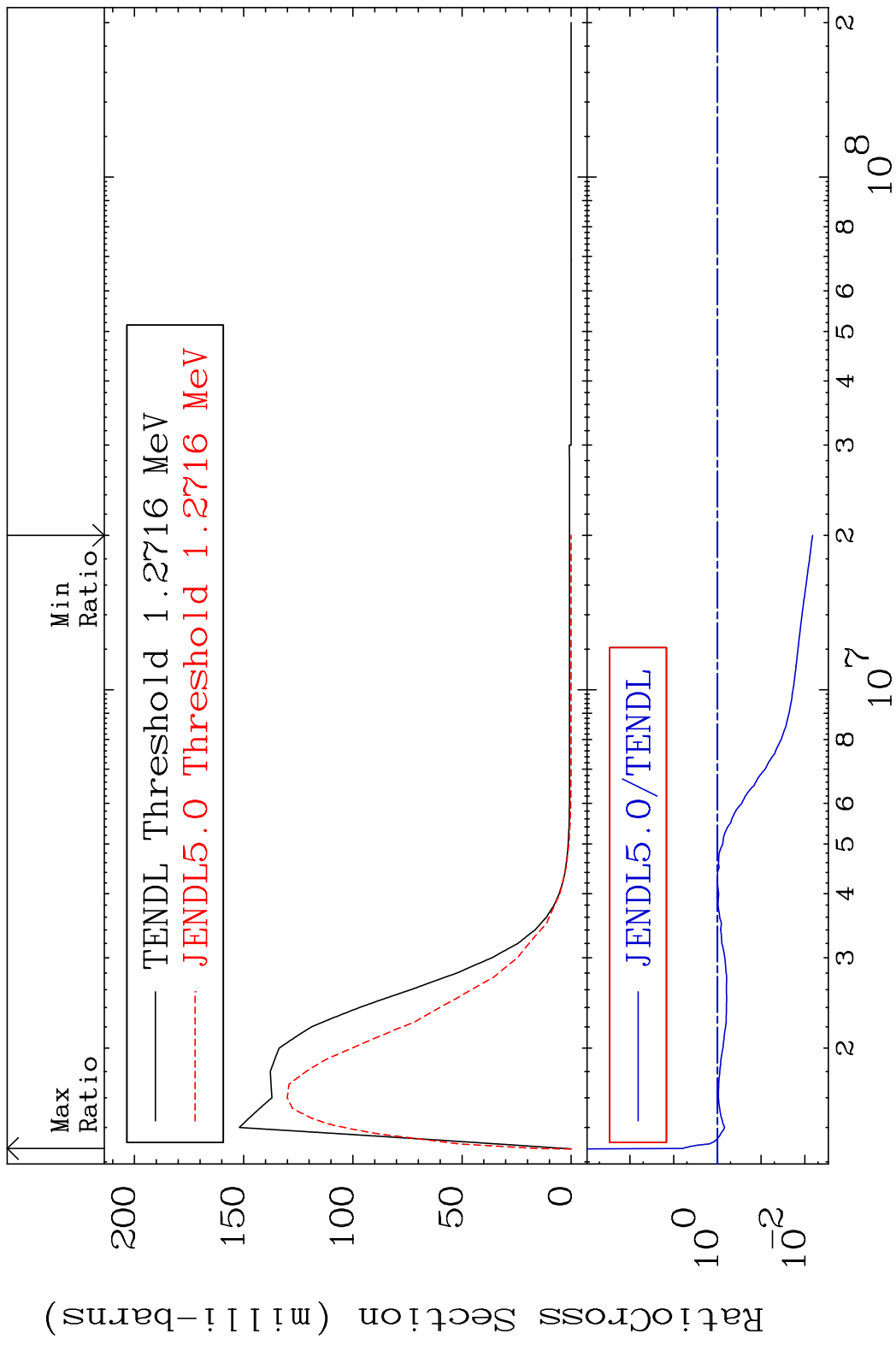
MAT 6443 MT= 61 (n, n') Level 64-Gd-158
 Cross Section -100.0 To 9999. %



MAT 6443 MT= 62 (n, n') Level 64-Gd-158
 Cross Section -100.0 To 398.1 %

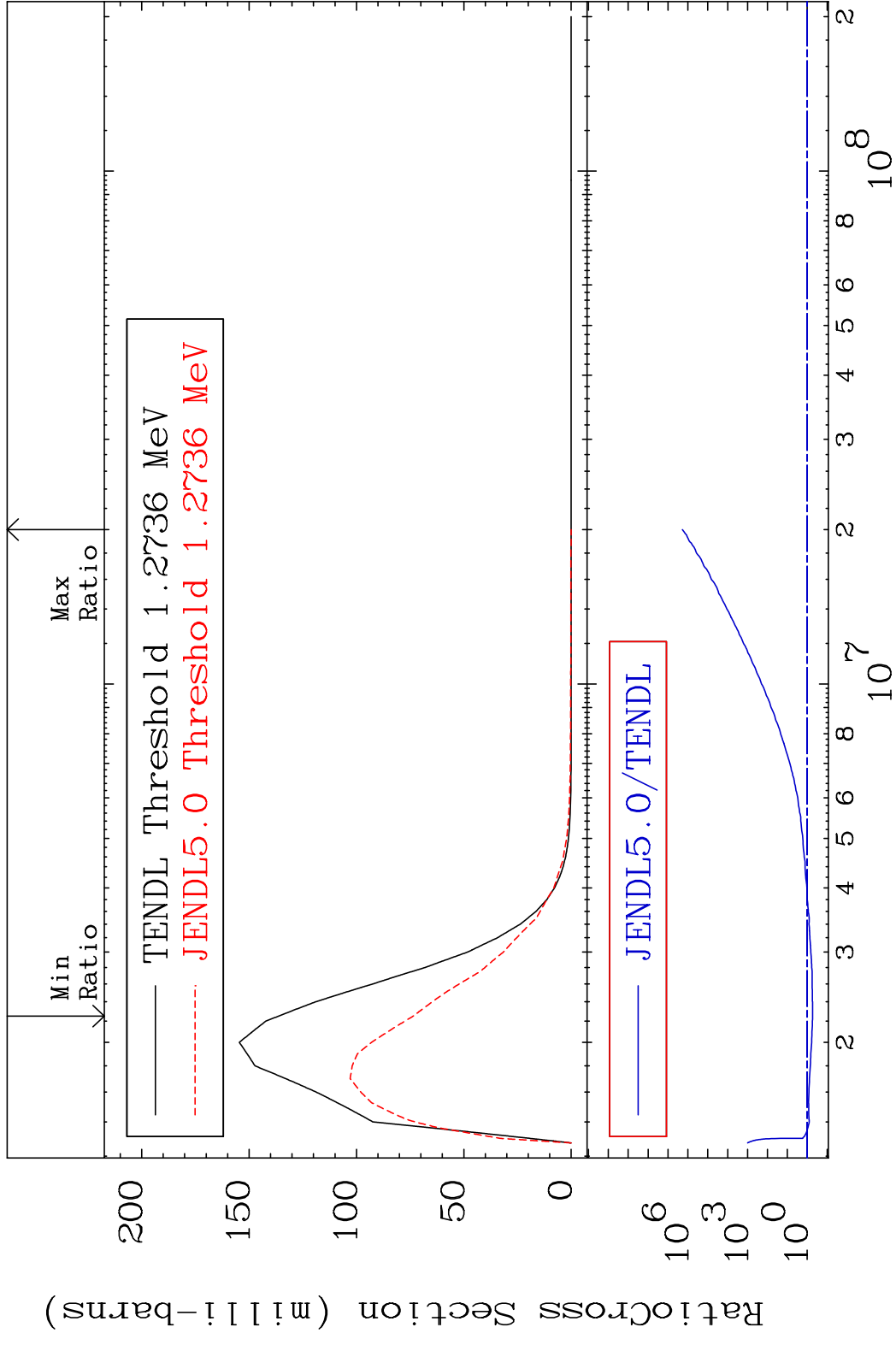


MAT 6443 MT= 63 (n, n') Level 64-Gd-158
 Cross Section -99.33 To 533.9 %

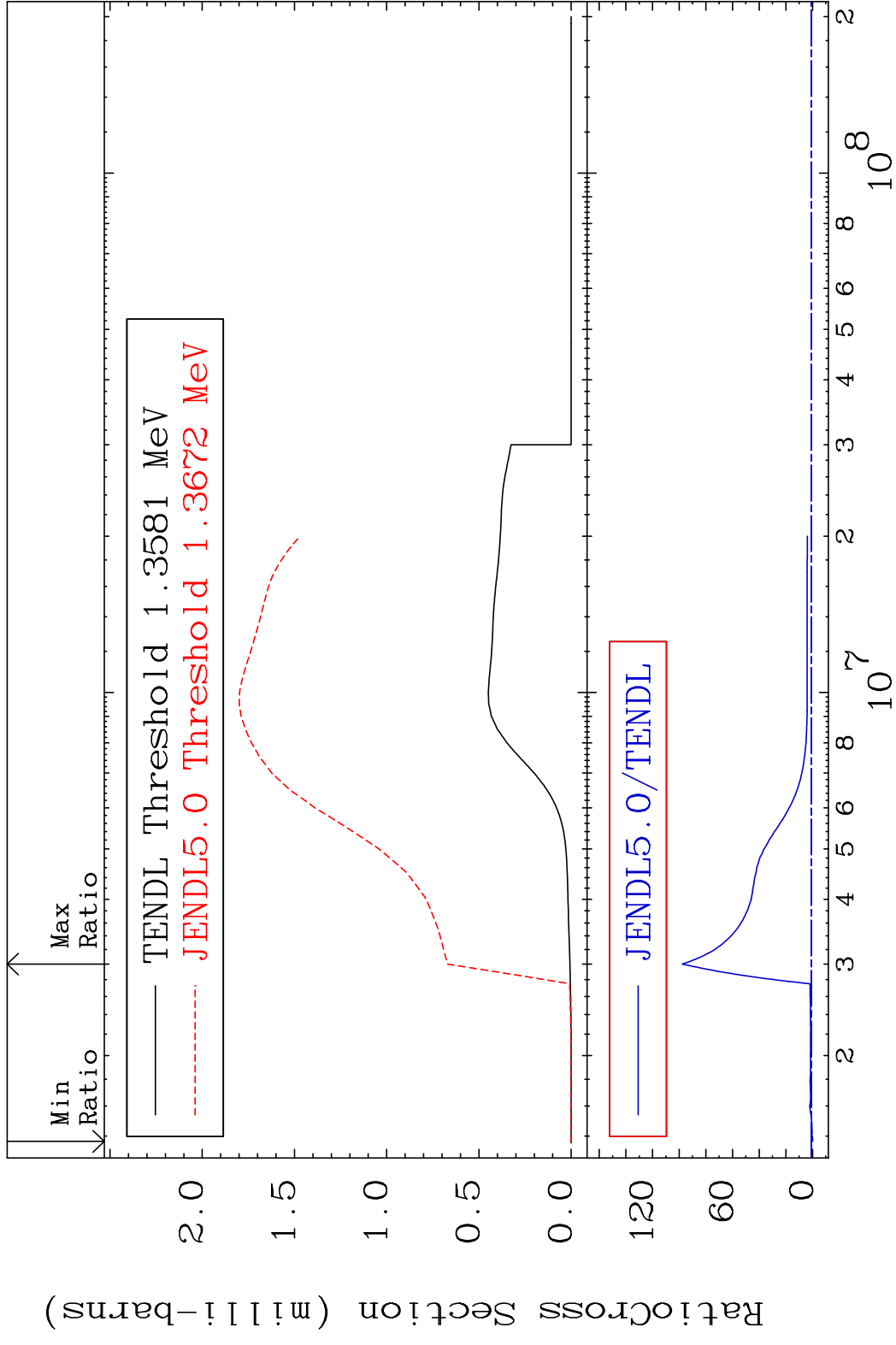


22 Incident Energy (eV) 64-Gd-158

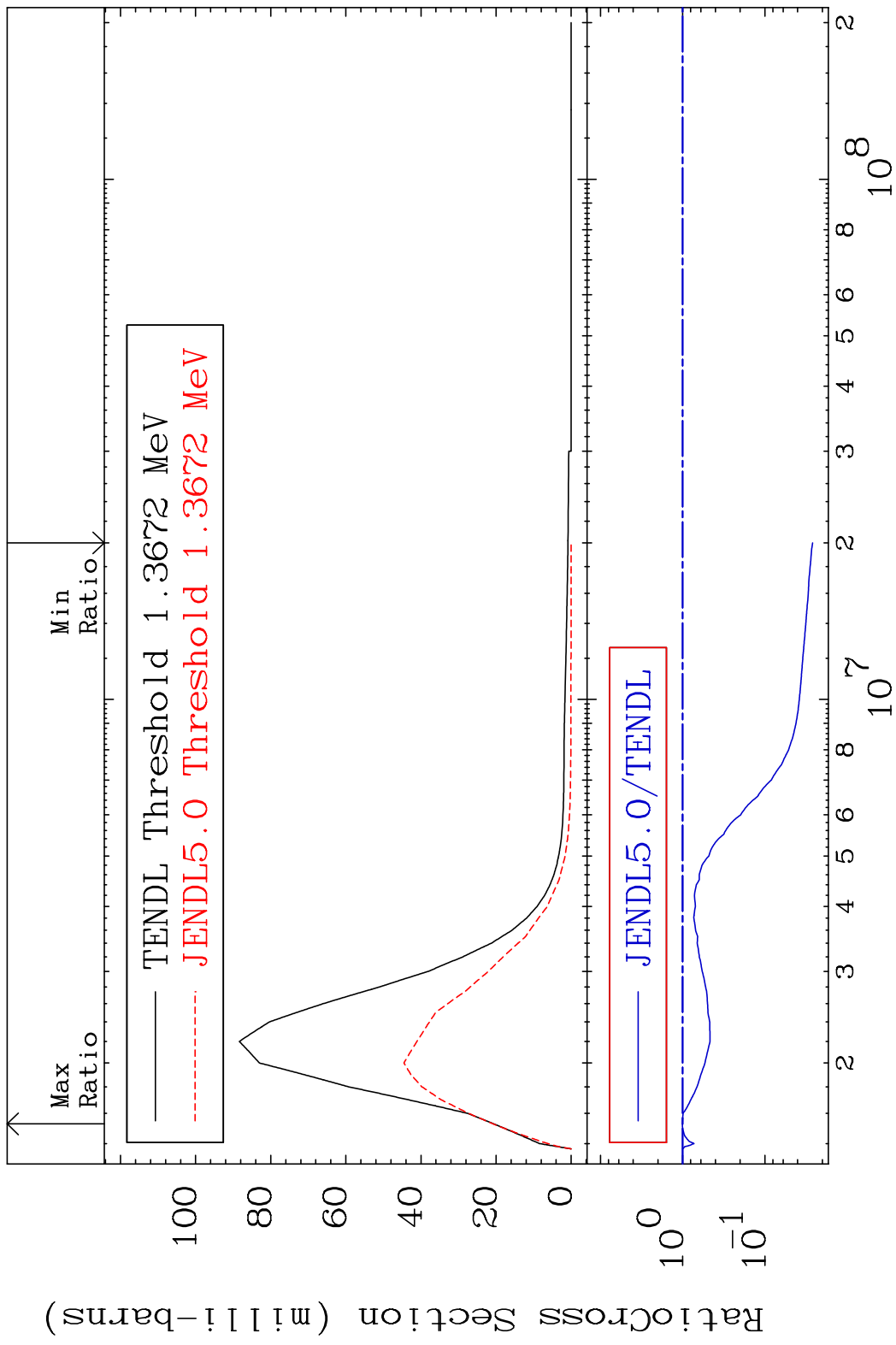
MAT 6443 MT= 64 (n, n') Level 64-Gd-158
 Cross Section -46.02 To 9999. %



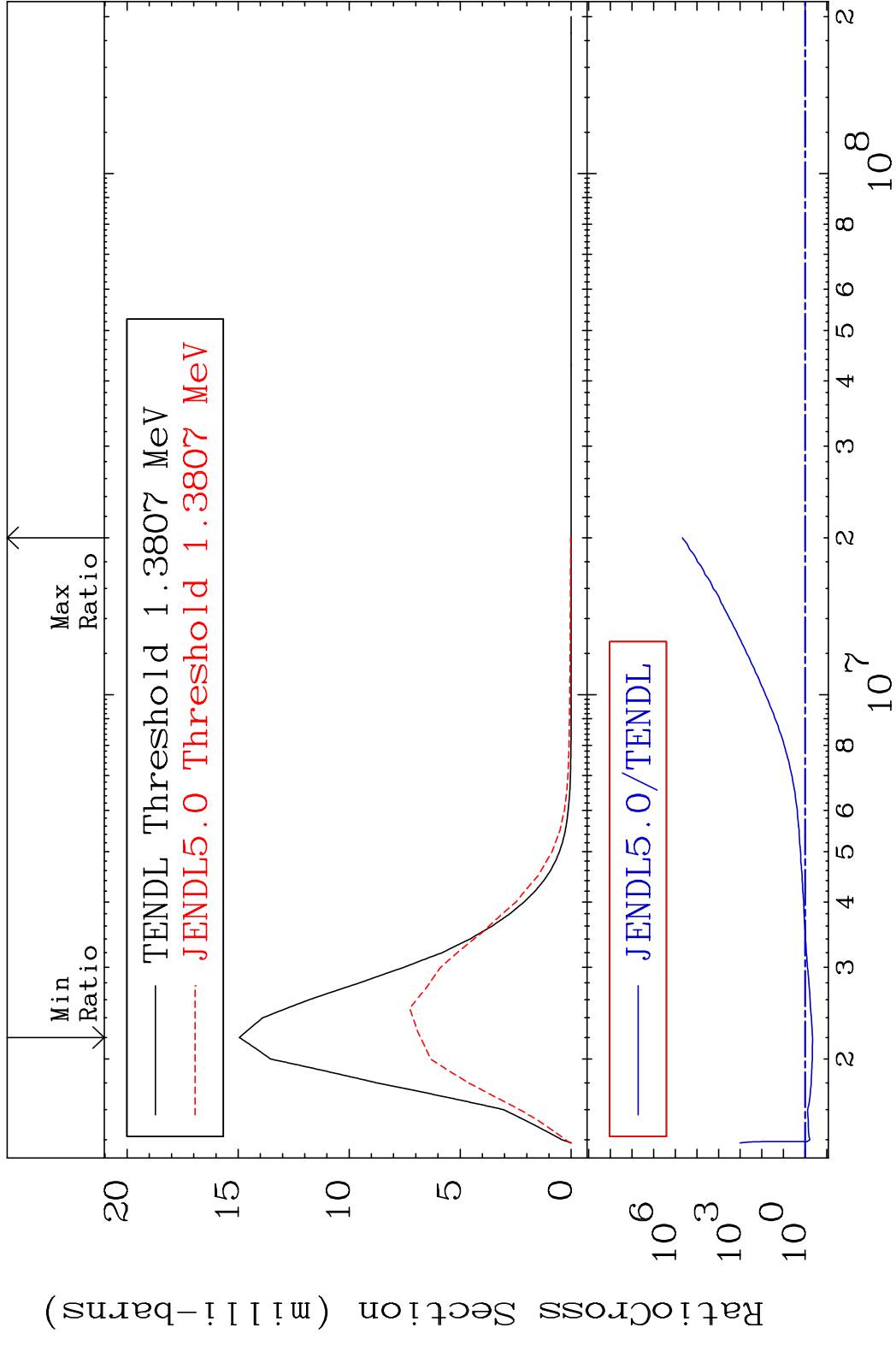
MAT 6443 MT= 65 (n,n') Level 64-Gd-158
 Cross Section -100.0 To 9663. %



MAT 6443 MT= 66 (n, n') Level 64-Gd-158
 Cross Section -97.37 To 0.960 %



MAT 6443 MT= 67 (n, n') Level 64-Gd-158
 Cross Section -54.60 To 9999. %

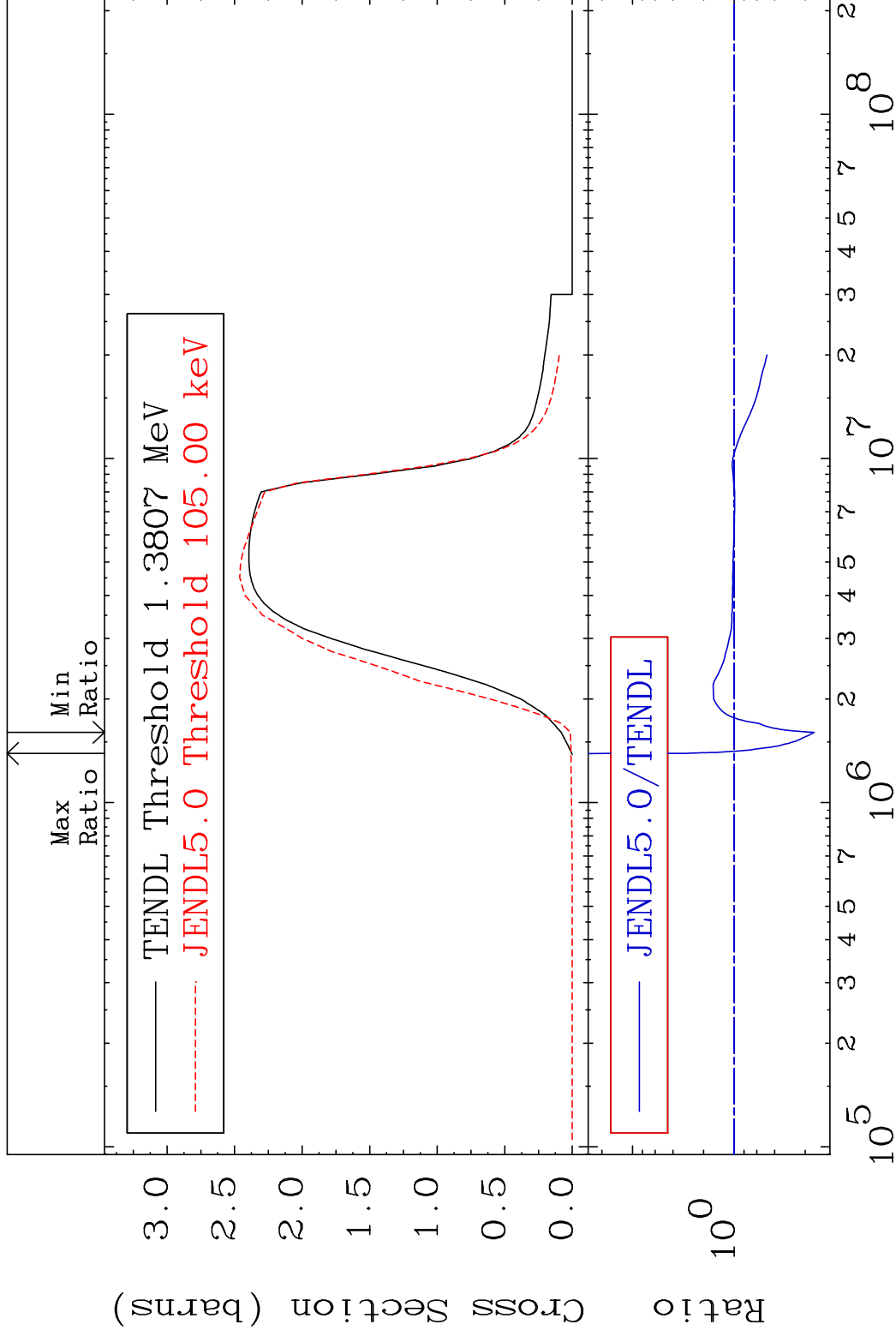


MAT 6443

(n, n') Continuum

64-Gd-158

Cross Section -83.65 To 214.2 %



27

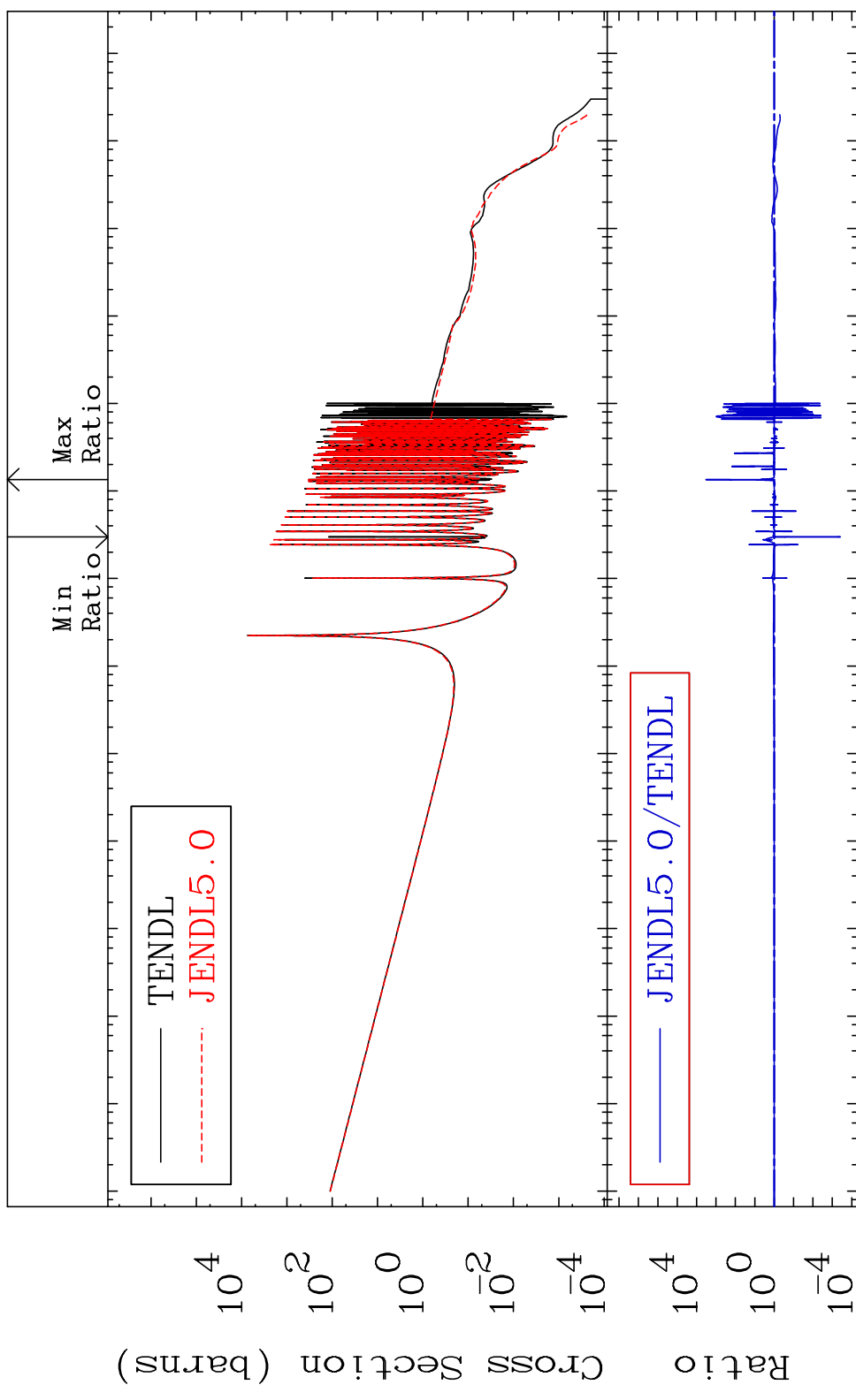
Incident Energy (eV)

64-Gd-158

MAT 6443

(n, γ)
Cross Section -99.96 To 9999. %

64-Gd-158

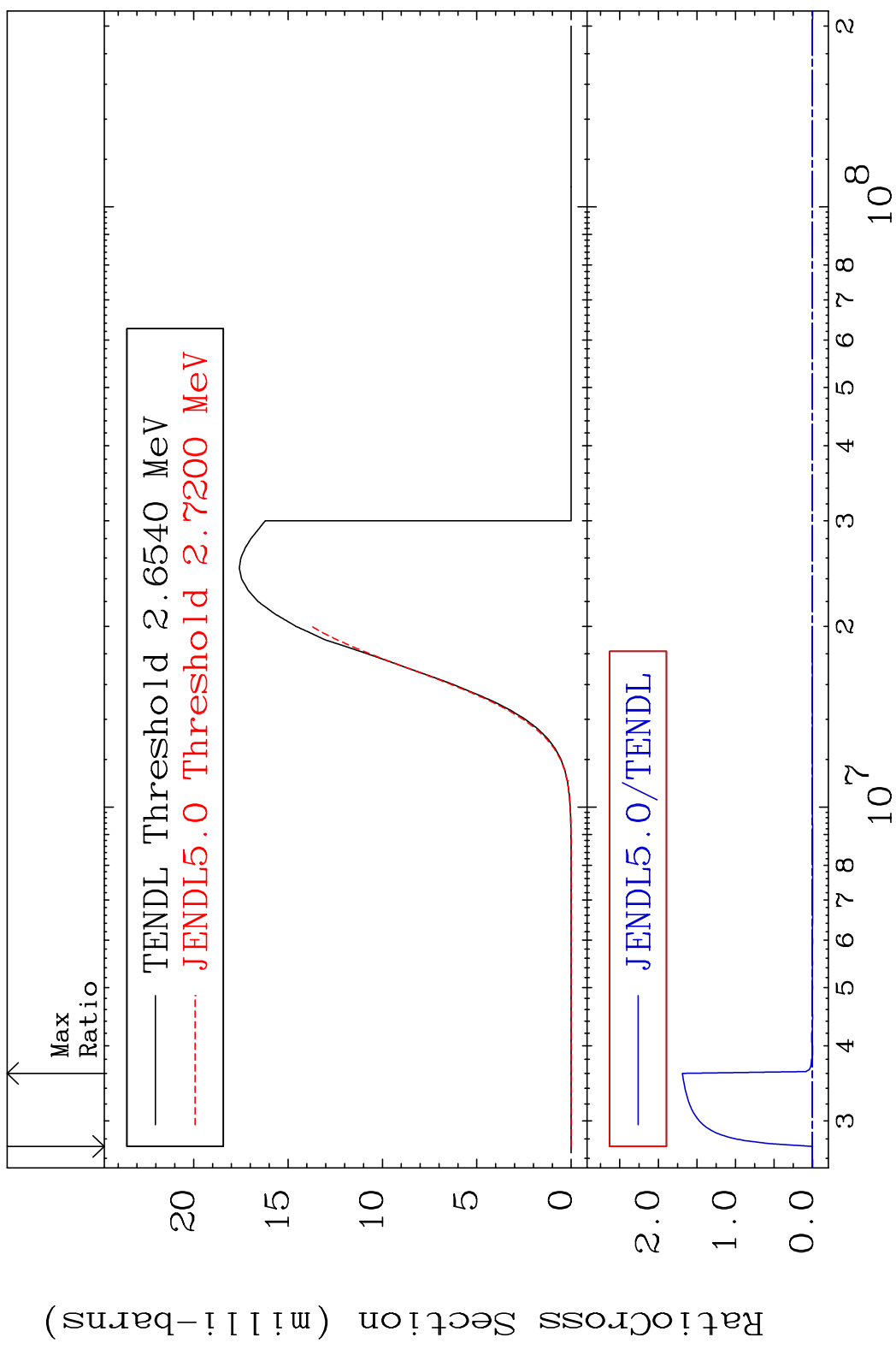


MAT 6443

(n,p)

64-Gd-158

Cross Section -100.0 To 9999. %

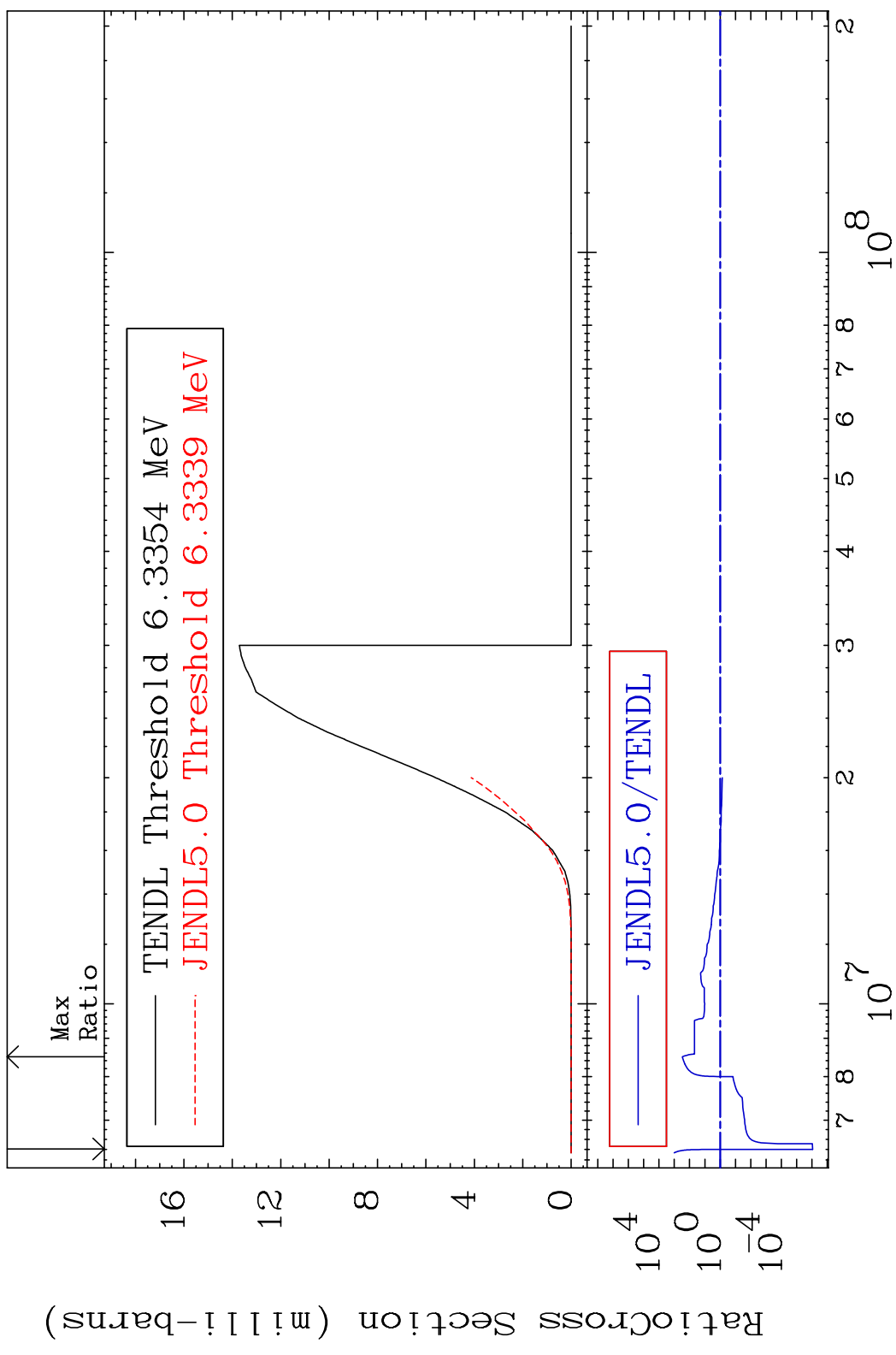


MAT 6443

(n,d)

64-Gd-158

Cross Section -100.0 To 9999. %



30

Incident Energy (eV)

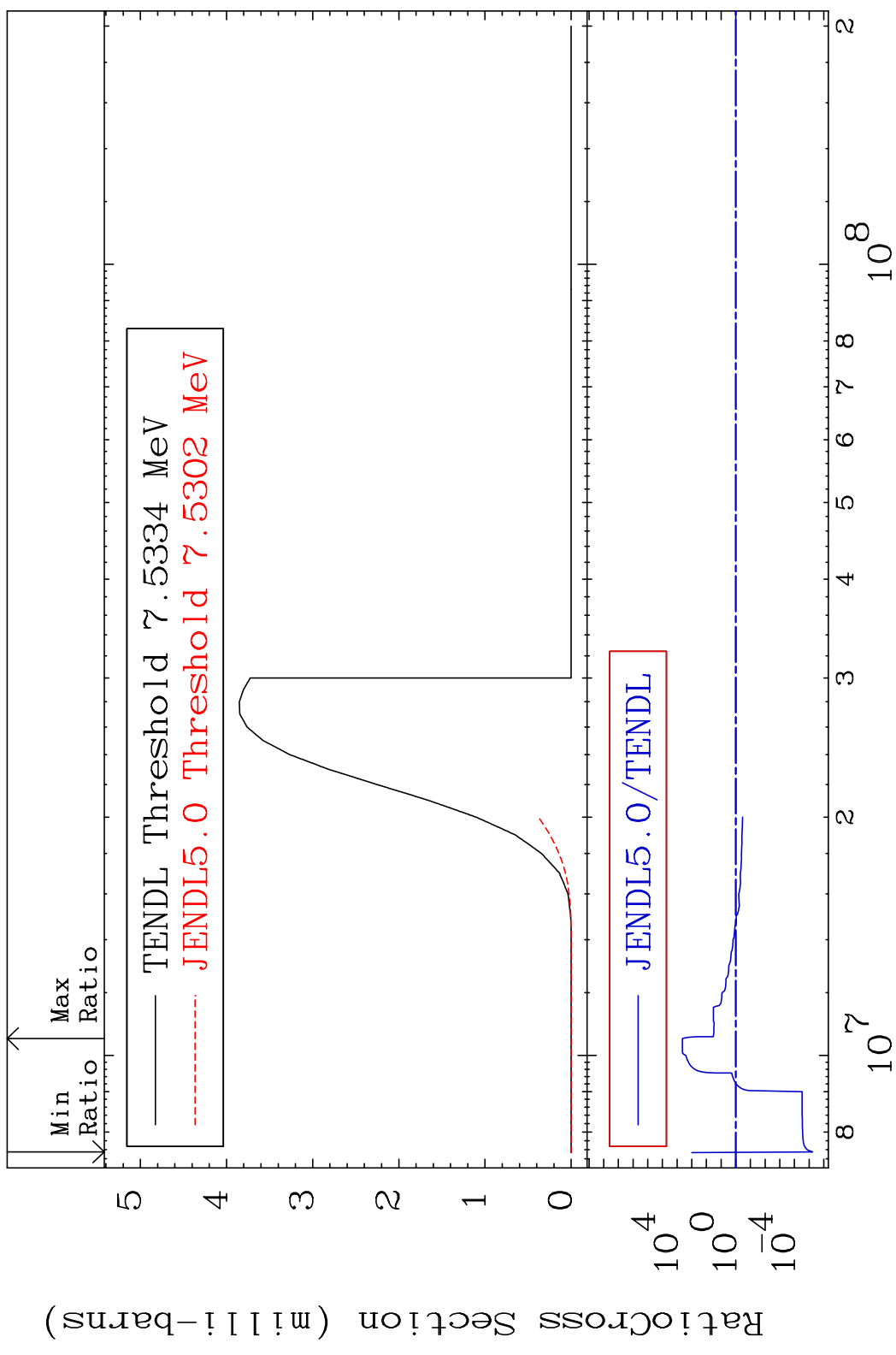
64-Gd-158

MAT 6443

(n, t)

64-Gd-158

Cross Section -100.0 To 9999. %

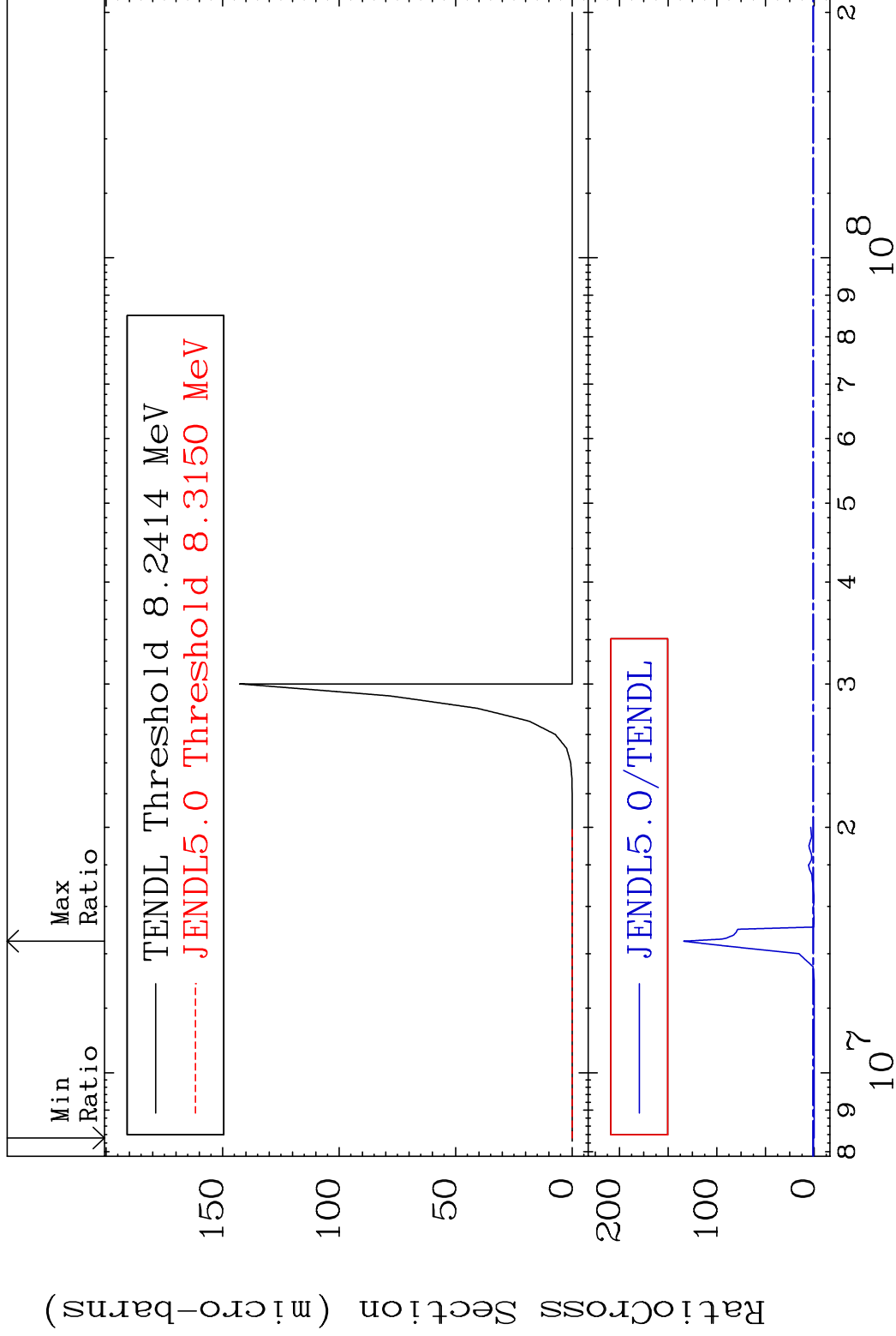


MAT 6443

(n, He-3)

64-Gd-158

Cross Section -100.0 To 9999. %



32

Incident Energy (eV)

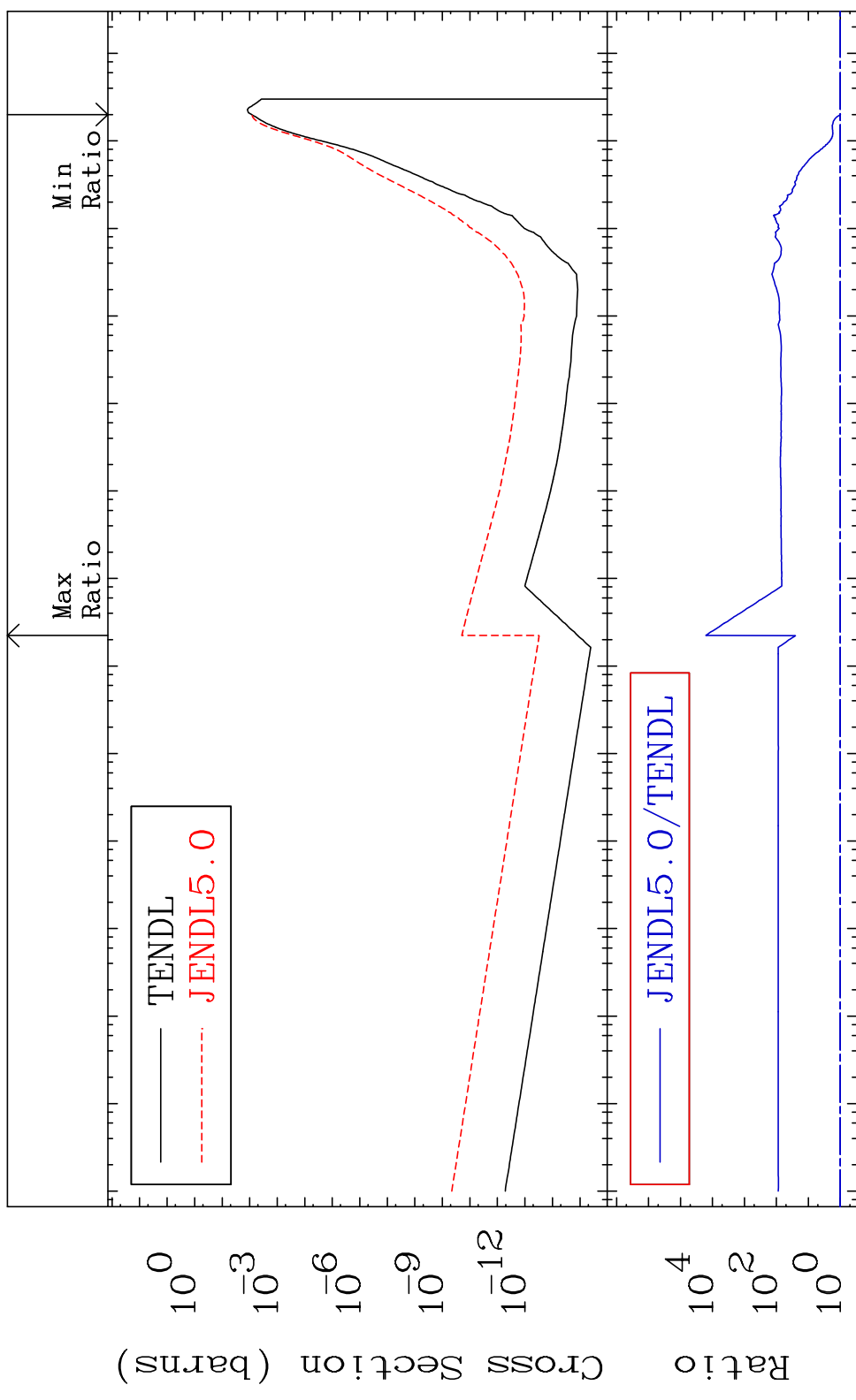
64-Gd-158

MAT 6443

64-Gd-158

(n, α)

Cross Section -1.198 To 9999. %

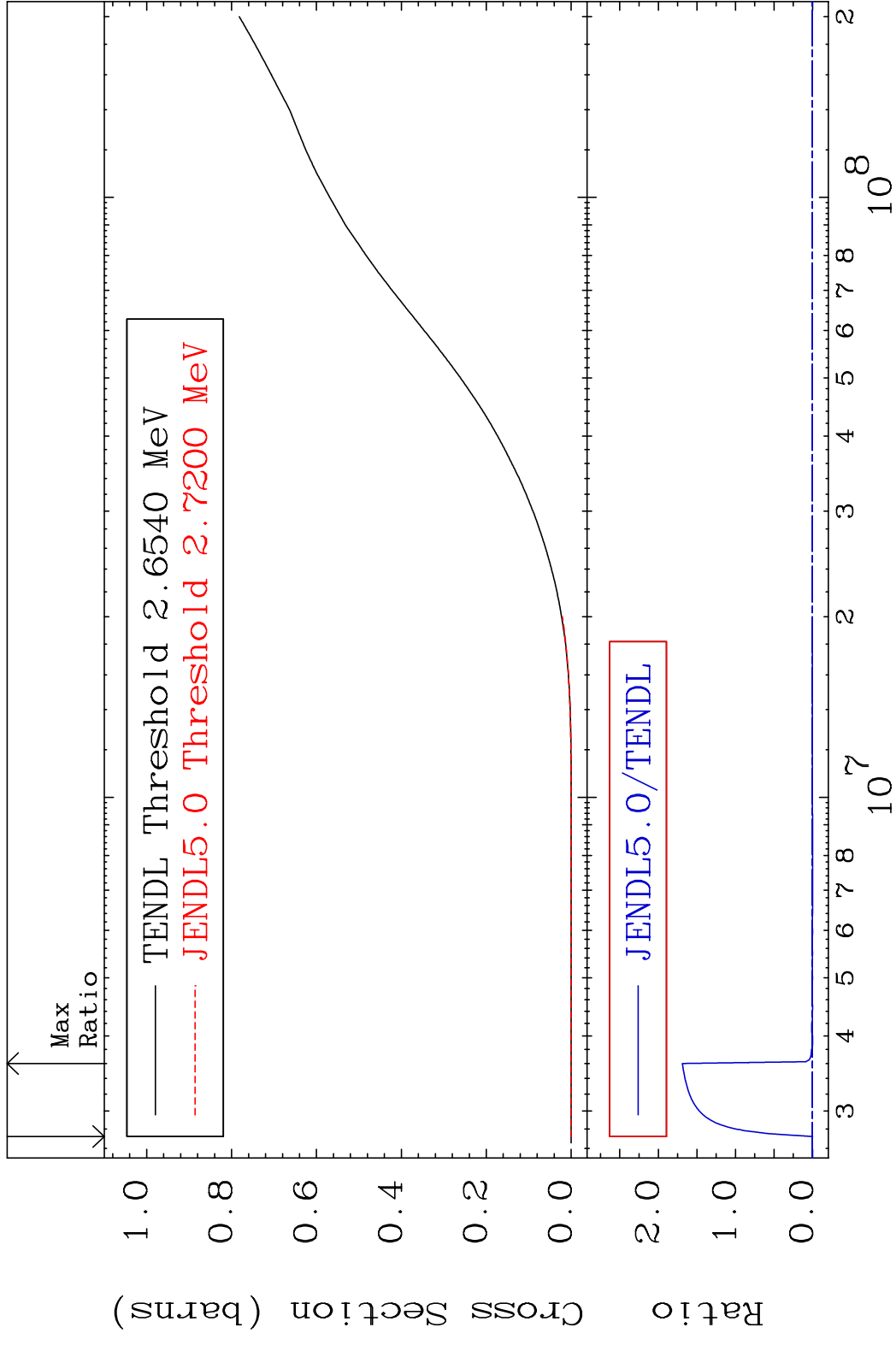


MAT 6443

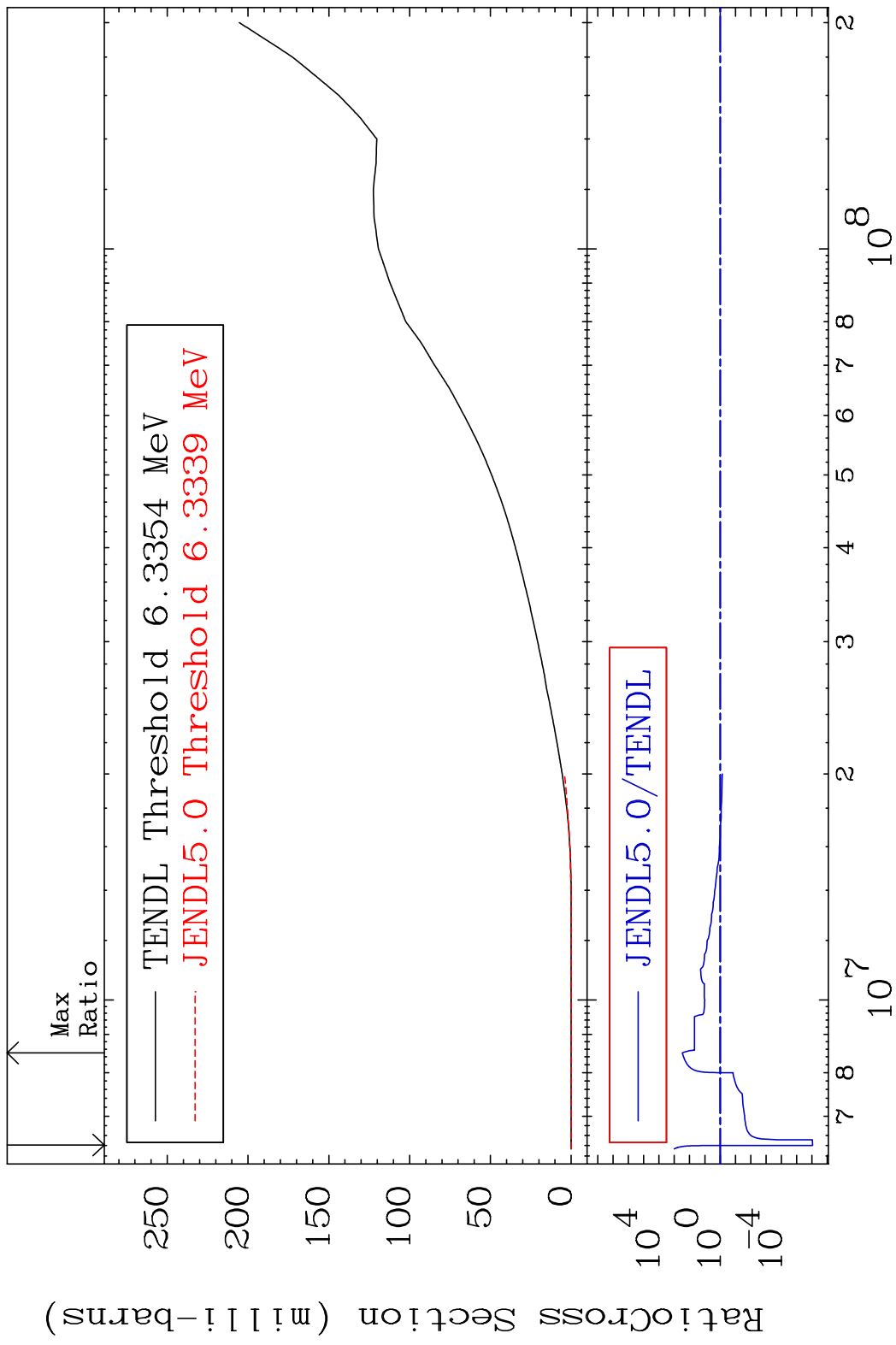
Hydrogen Production

64-Gd-158

Cross Section -100.0 To 9999. %

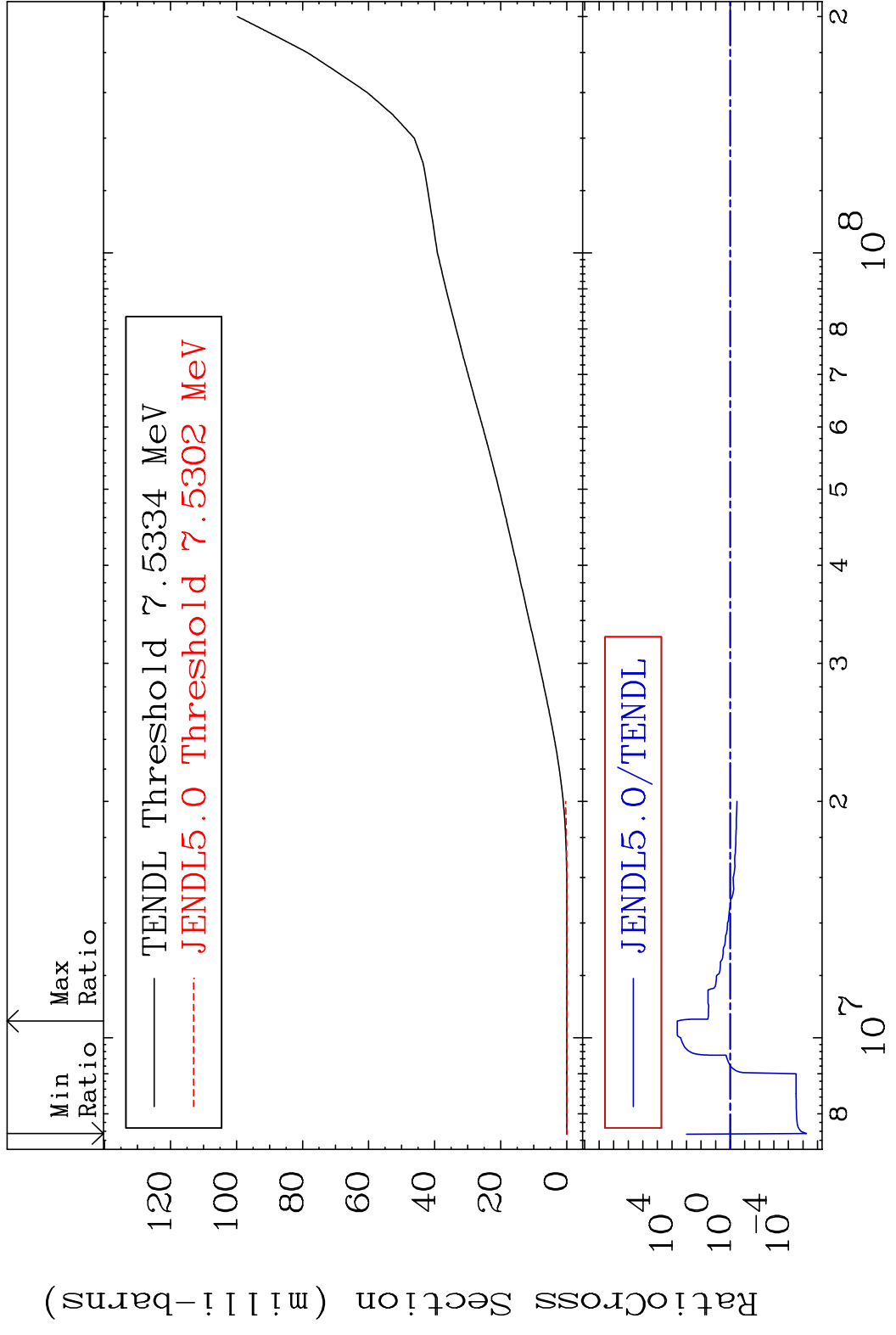


MAT 6443 Deuterium Production 64-Gd-158
 Cross Section -100.0 To 9999. %

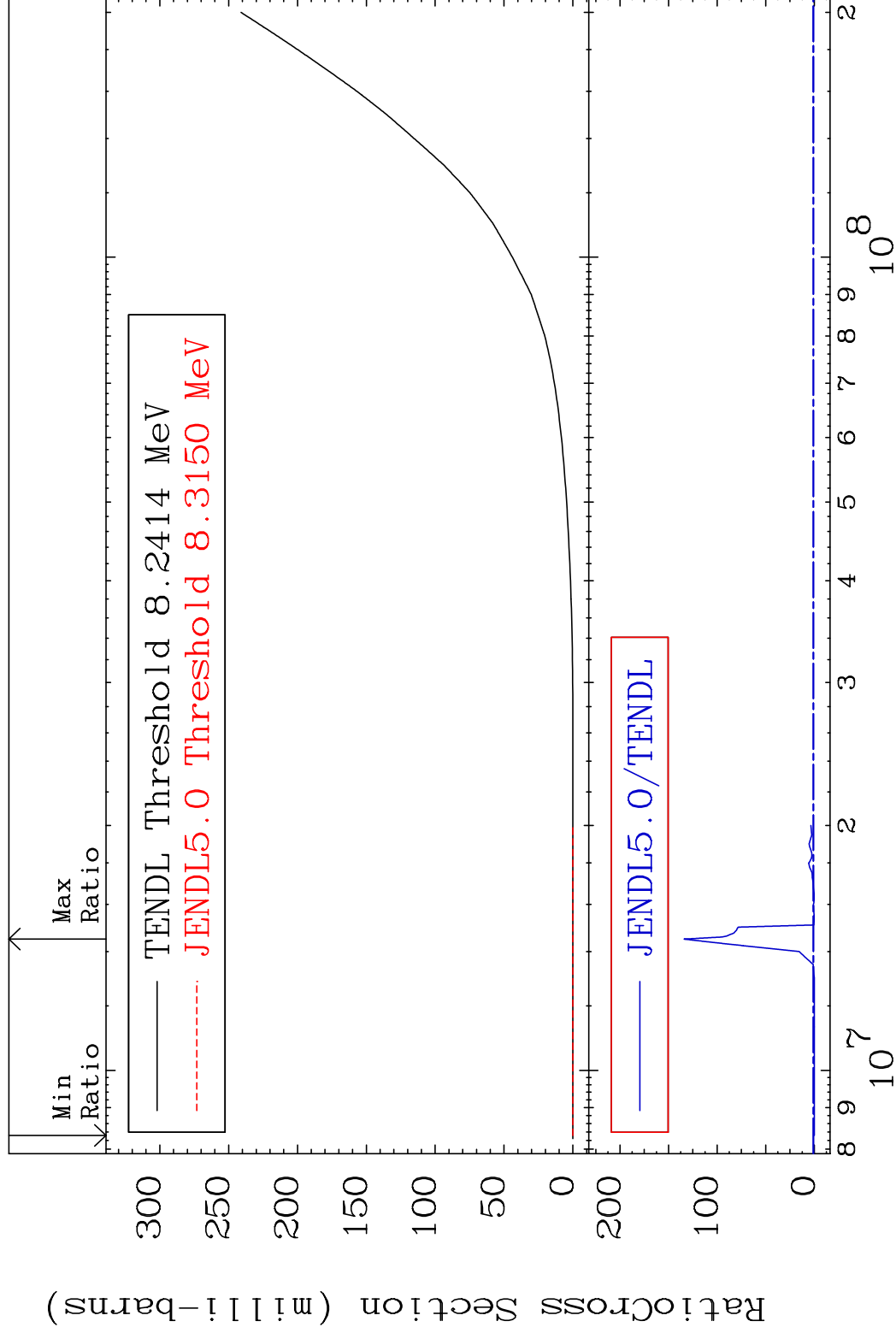


MAT 6443

Tritium Production 64-Gd-158
Cross Section -100.0 To 9999. %



Cross Section -100.0 To 9999. %

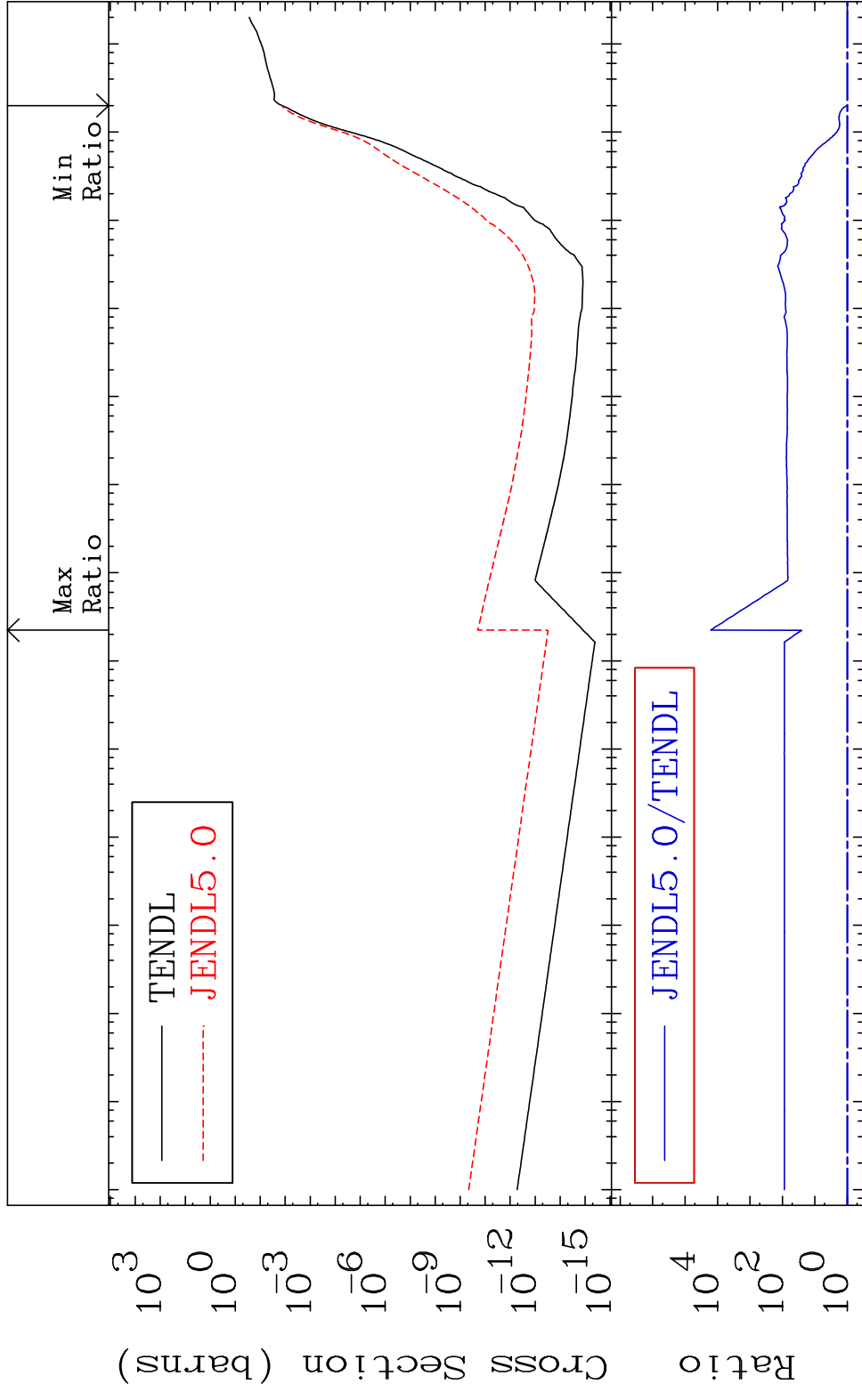


MAT 6443

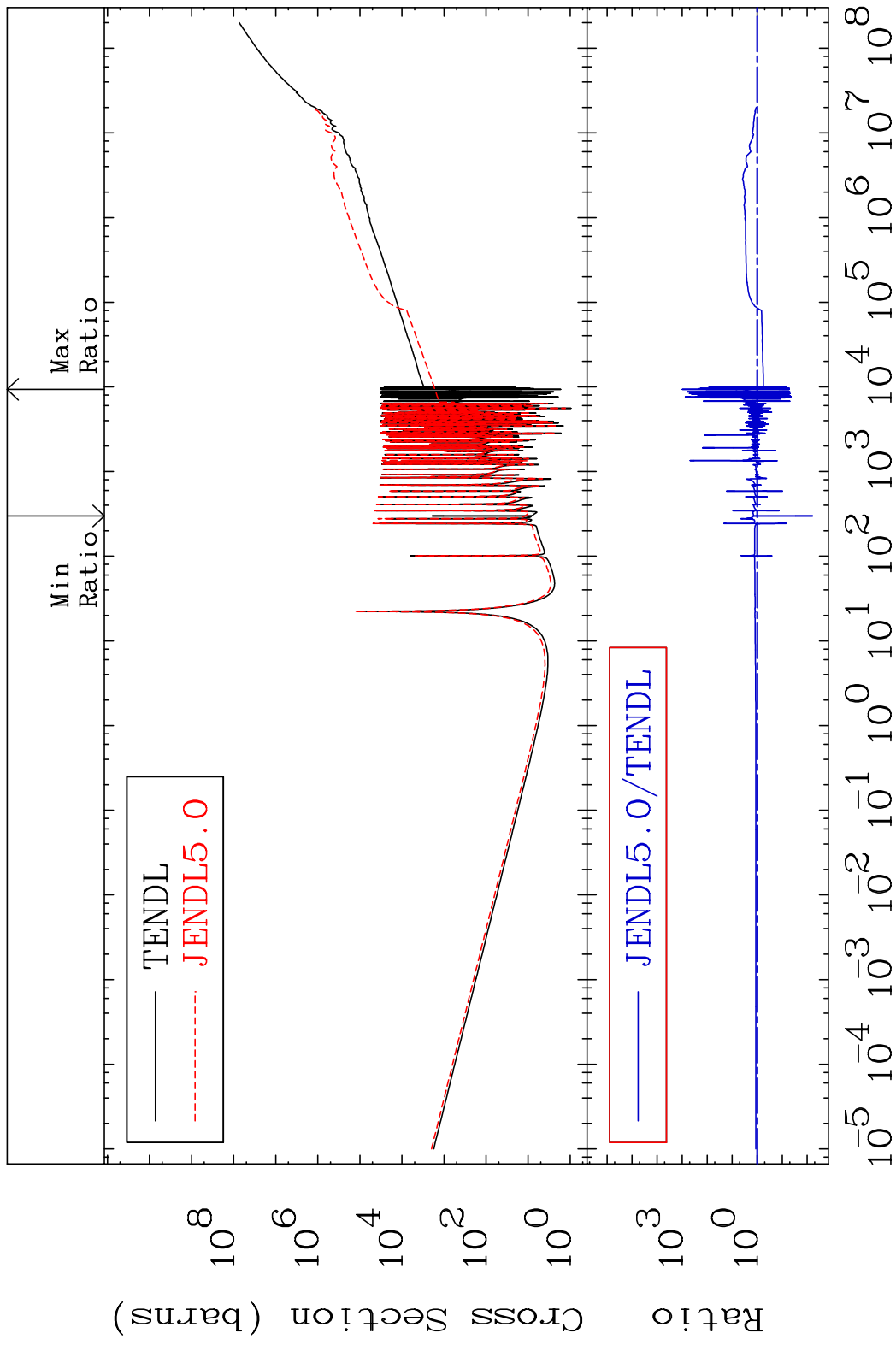
He-4 Production

64-Gd-158

Cross Section 6.836 To 9999. %



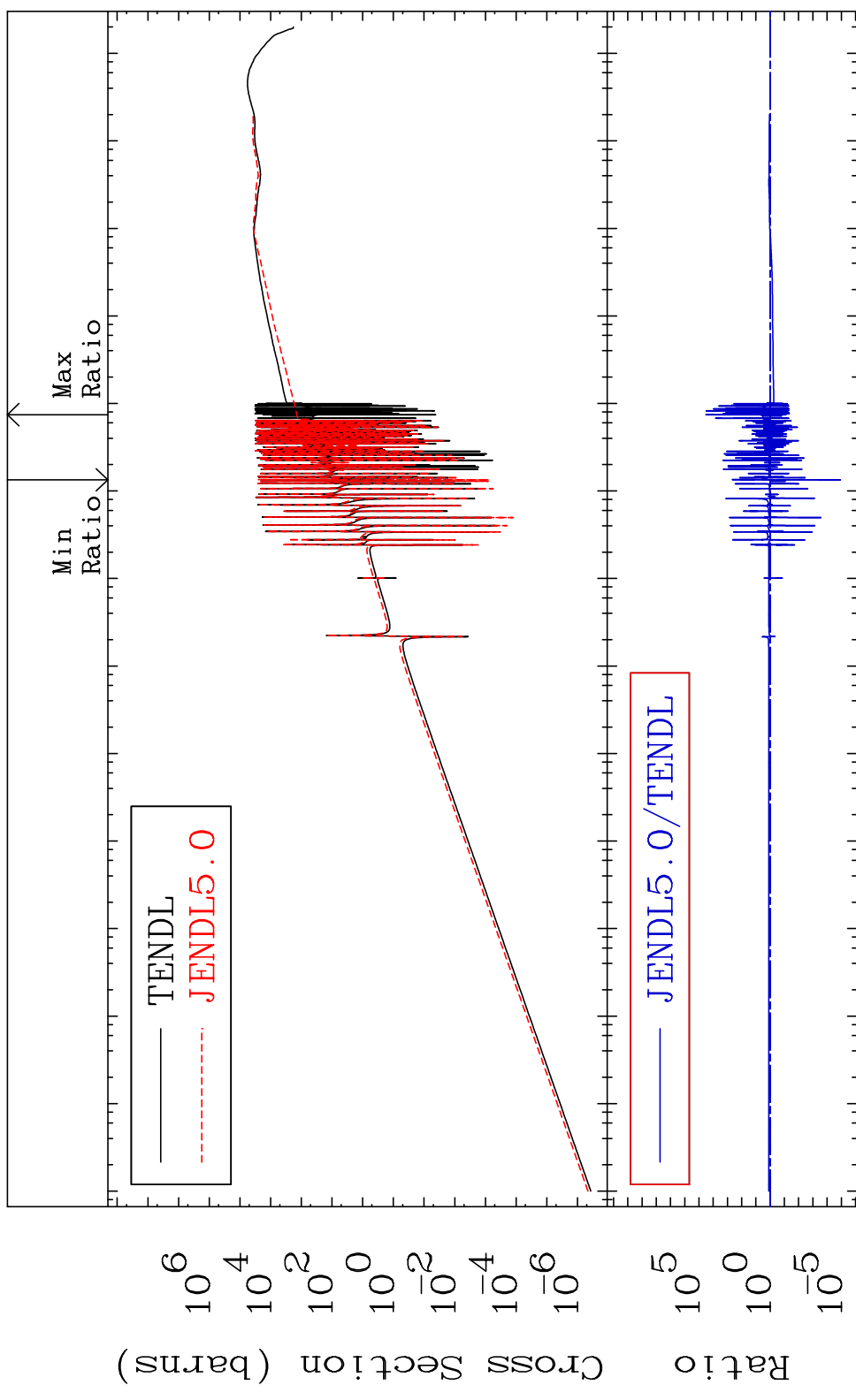
MAT 6443 Kerma total (eV-barns) 64-Gd-158
 Cross Section -99.39 To 9999. %



39 Incident Energy (eV) 64-Gd-158

MAT 6443

Kerma elastic Cross Section -100.0 To 9999. %
64-Gd-158



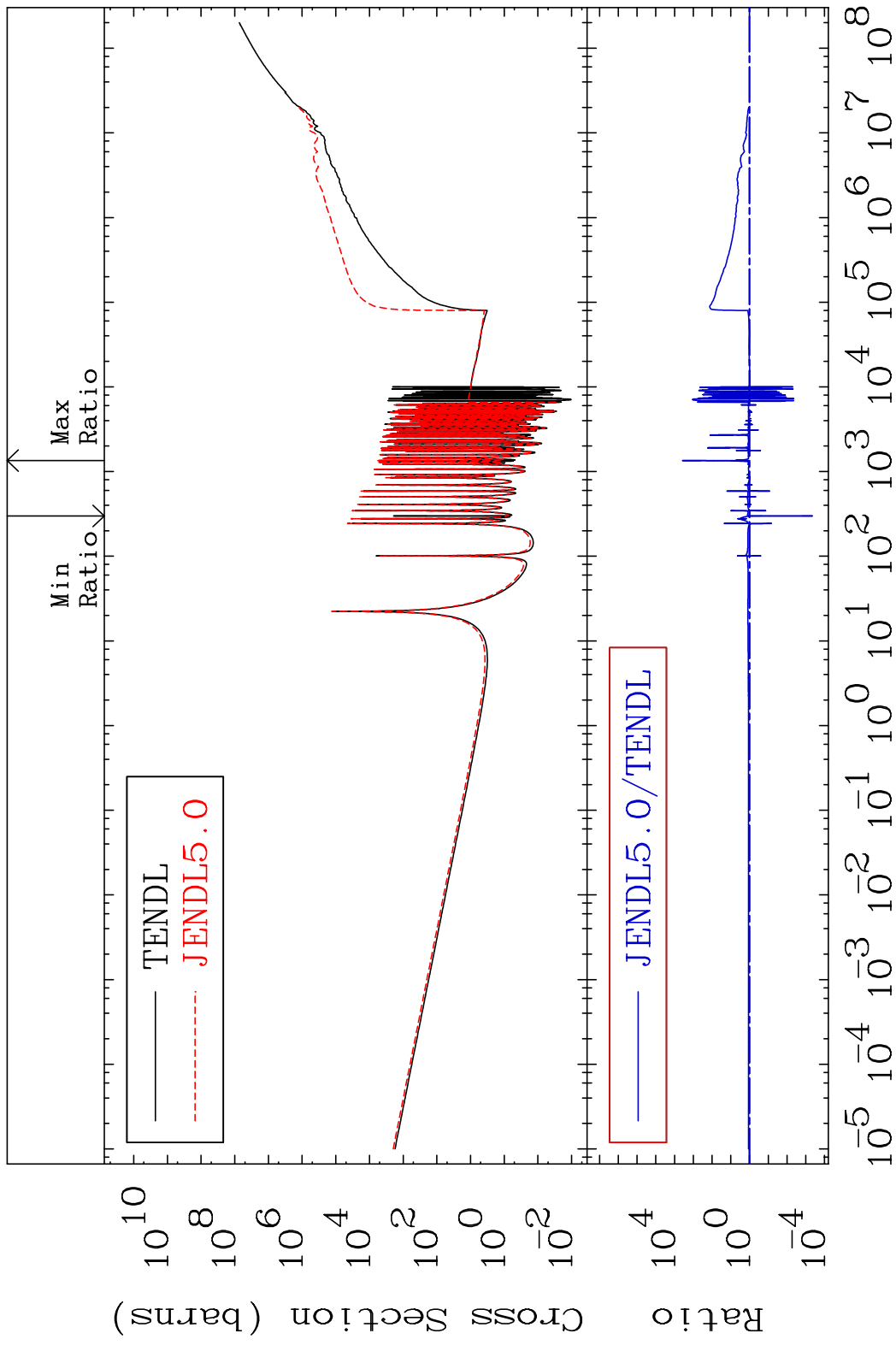
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

40

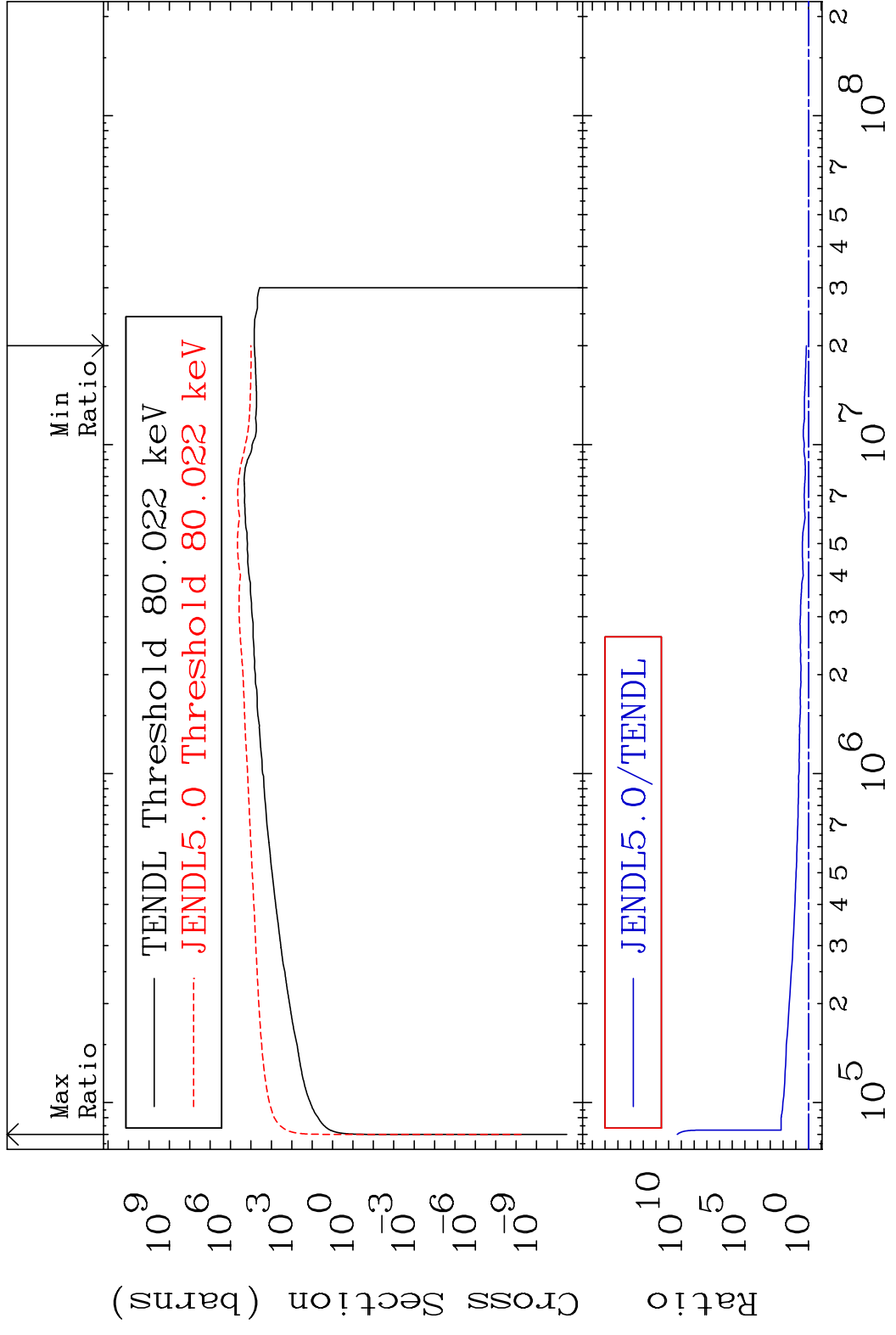
Incident Energy (eV)

64-Gd-158

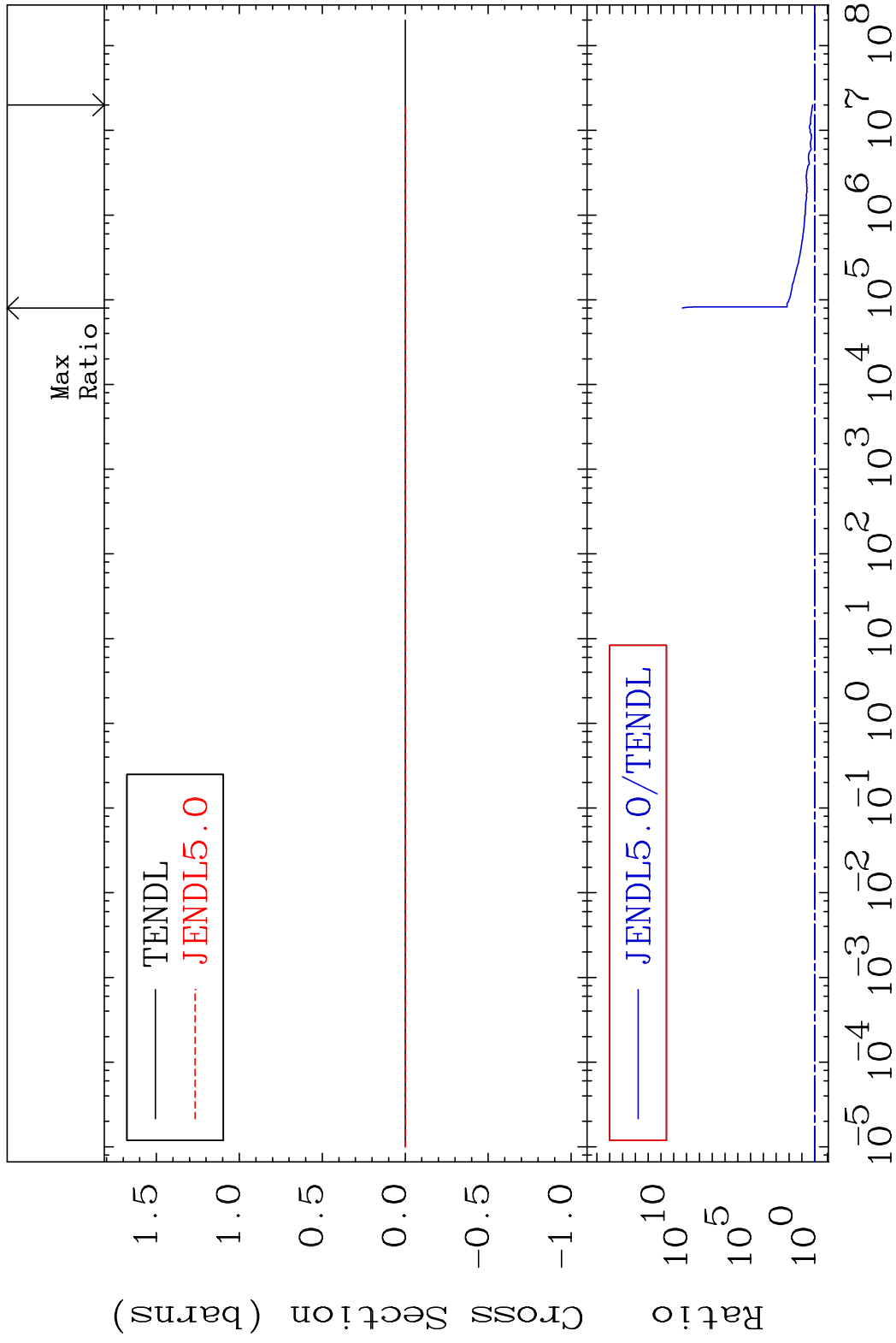
MAT 6443 Kerma non-elastic (all but mt2) 64-Gd-158
 Cross Section -99.96 To 9999. %



MAT 6443 Kerma inelastic (mt51-91) 64-Gd-158
 Cross Section 45.65 To 9999. %

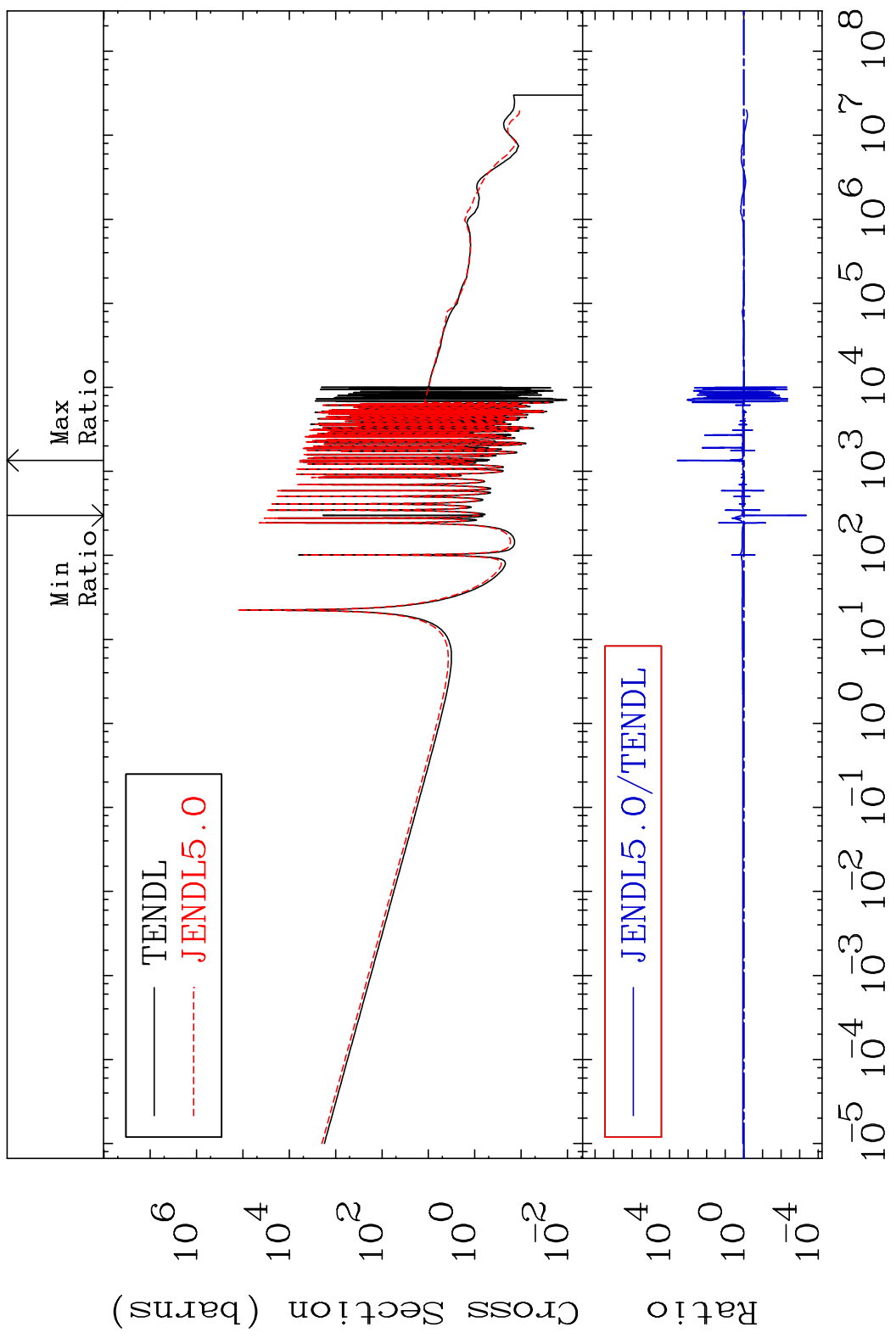


MAT 6443 Kerma fission (mt18 or mt19-20-21-38) 64-Gd-158
 Cross Section 45.65 To 9999. %

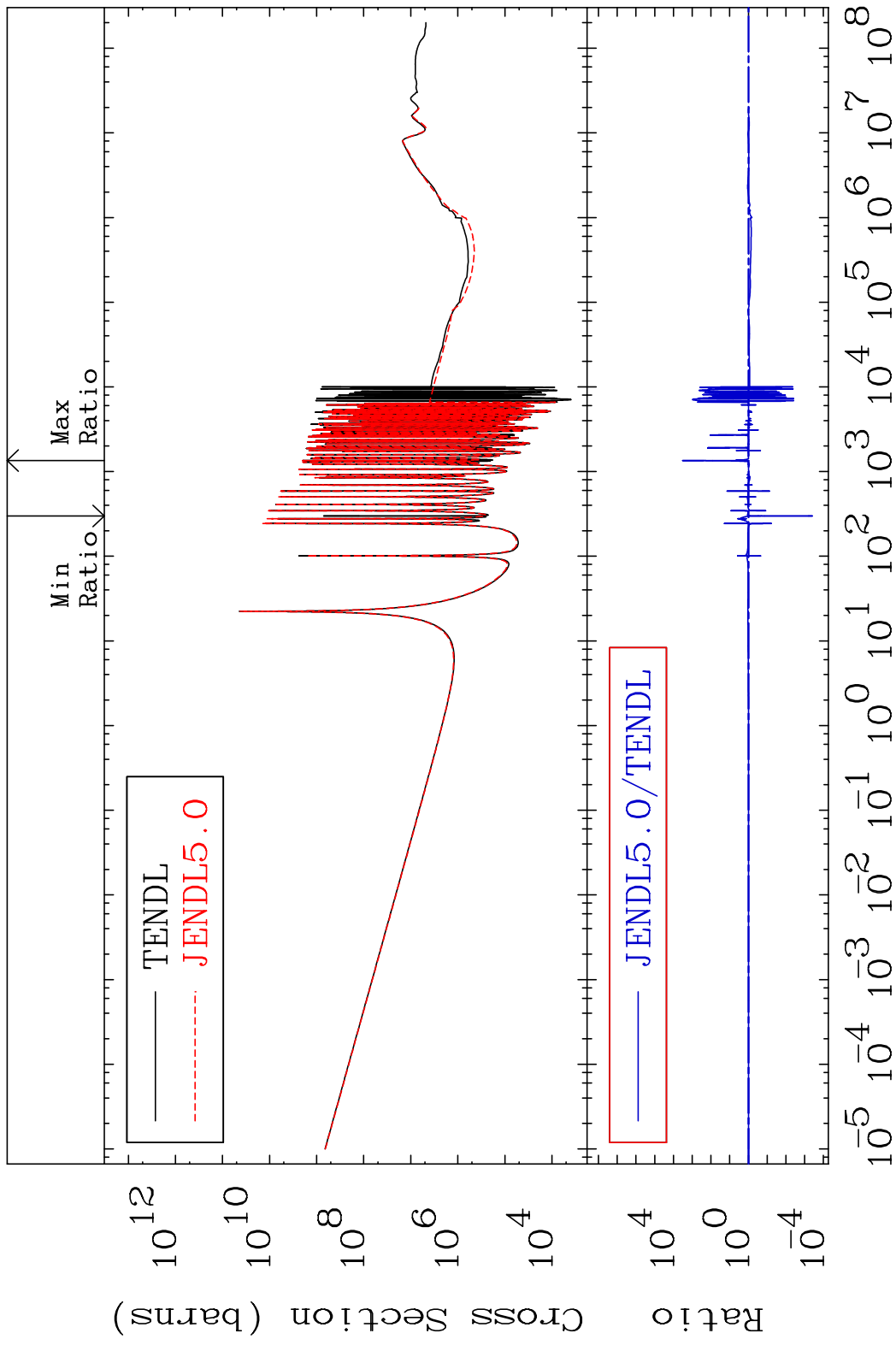


MAT 6443

Kerma capture (mt102) 64-Gd-158
Cross Section -99.96 To 9999. %

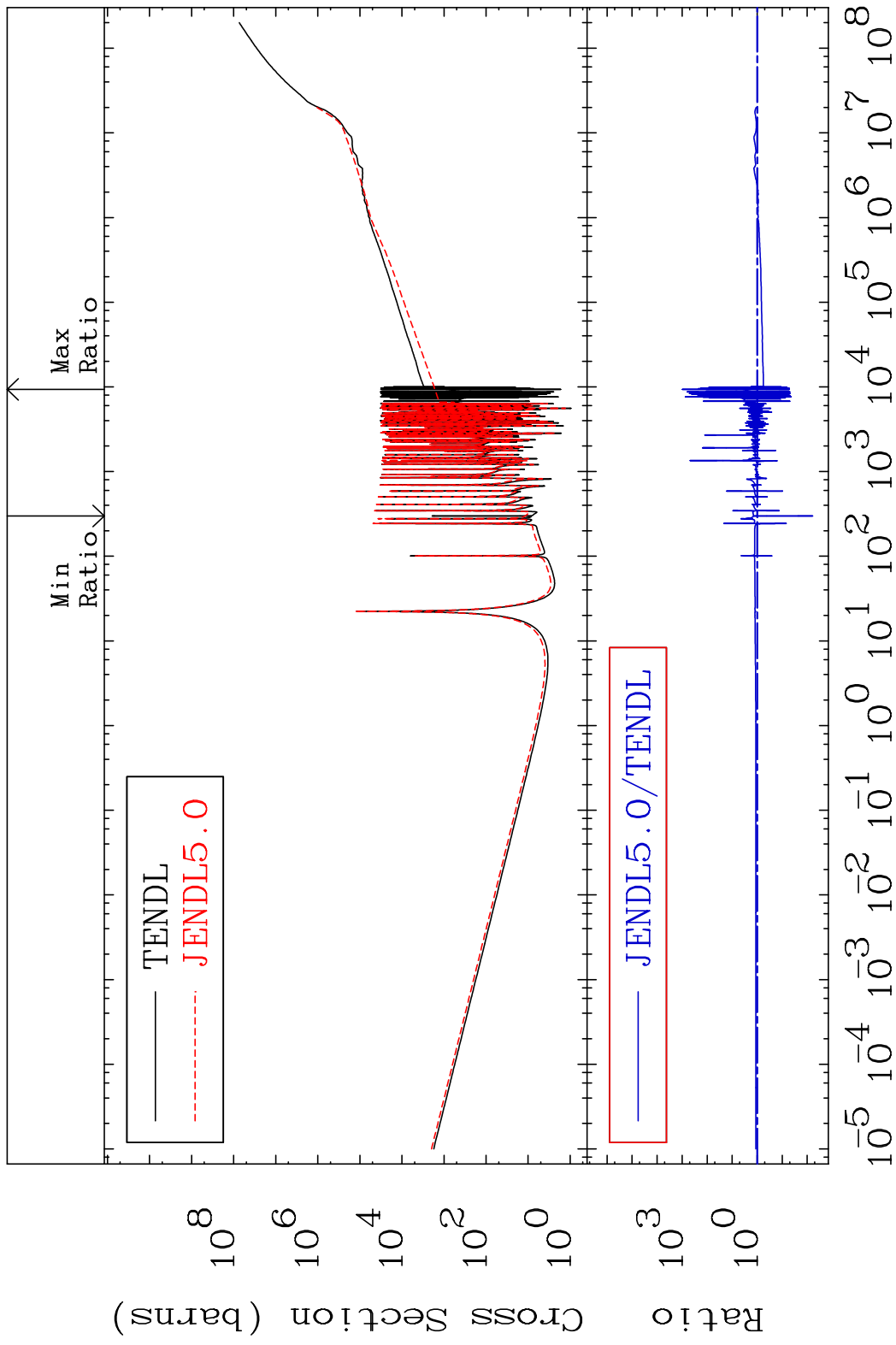


MAT 6443 Total photon (eV-barns) 64-Gd-158
Cross Section -99.96 To 9999. %

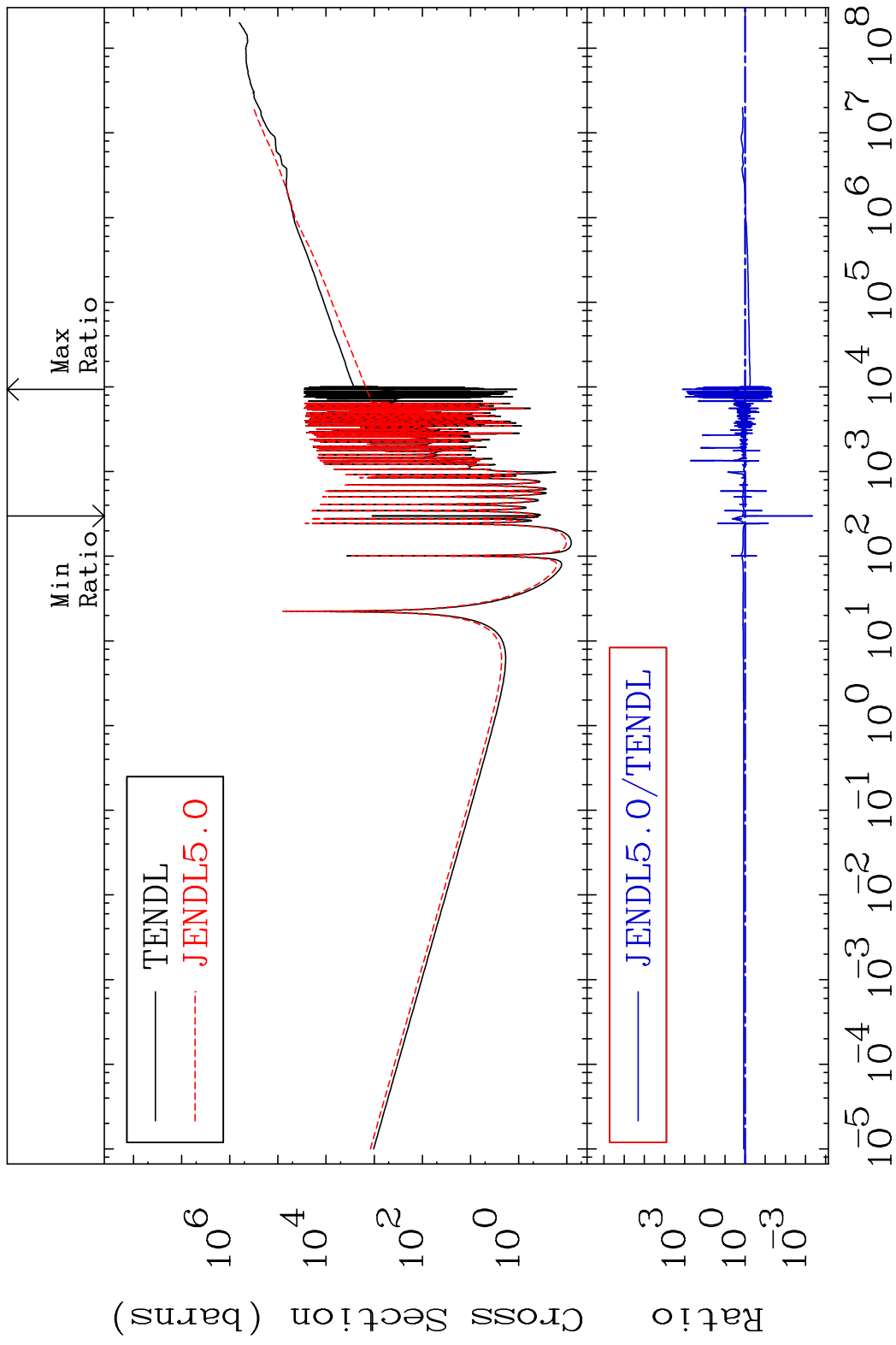


45 Incident Energy (eV) 64-Gd-158

MAT 6443 Total kinematic kerma (high limit) 64-Gd-158
 Cross Section -99.39 To 9999. %



MAT 6443 Dpa total (eV-barns) 64-Gd-158
 Cross Section -99.96 To 9999. %

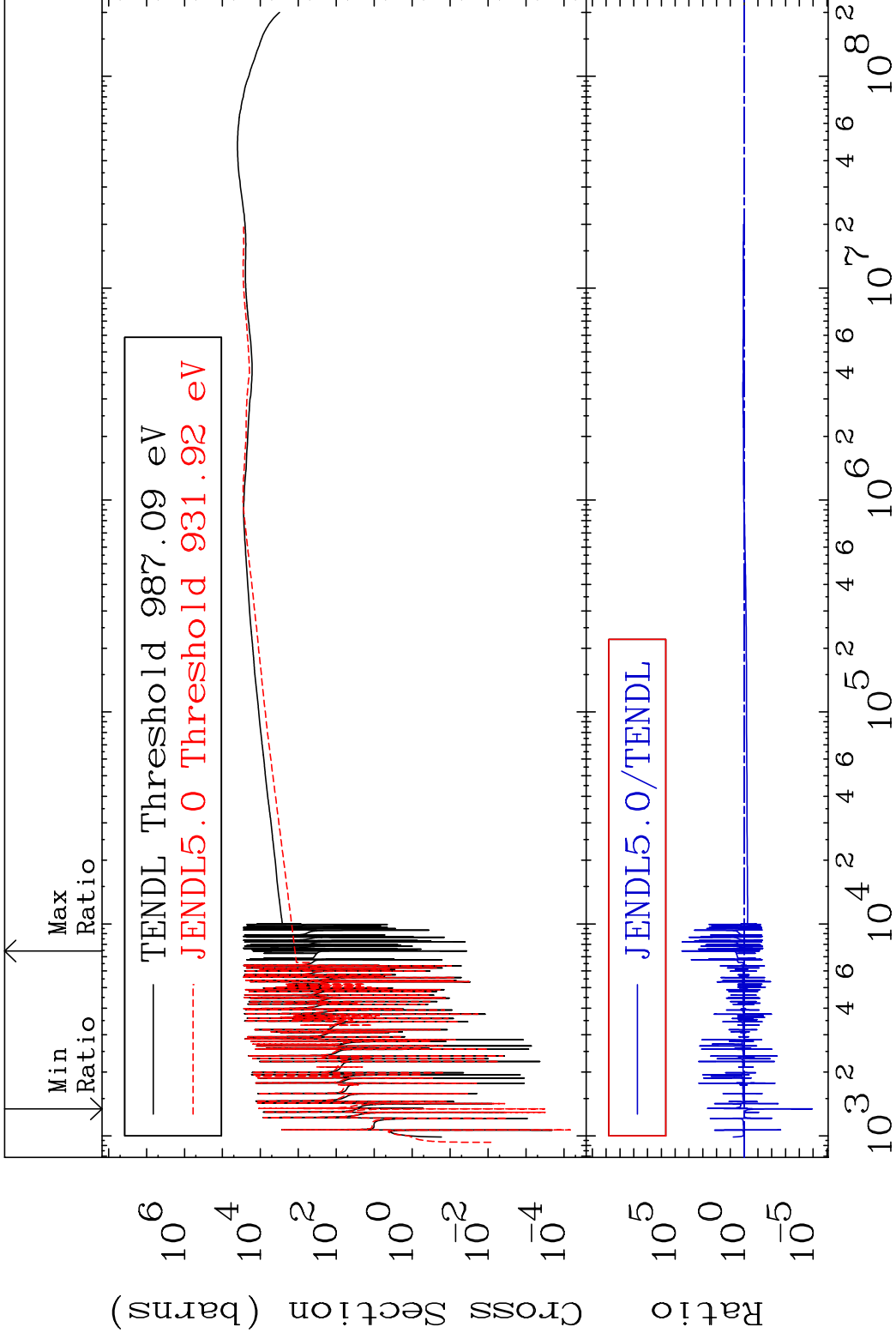


MAT 6443

Dpa elastic (mt2)

64-Gd-158

Cross Section -100.0 To 9999. %



48

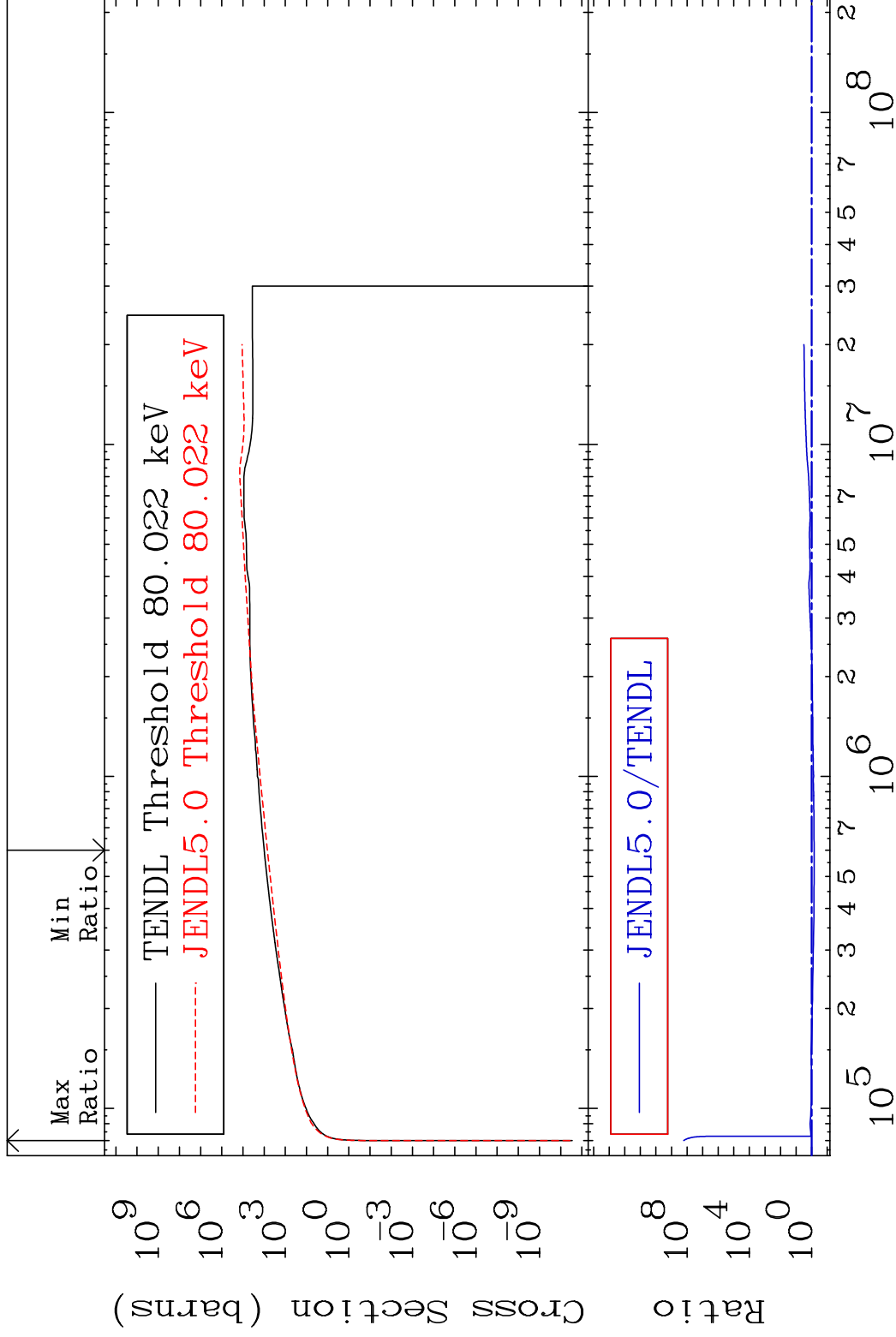
Incident Energy (eV)

64-Gd-158

MAT 6443

Dpa inelastic (mt51-91) 64-Gd-158

Cross Section -30.20 To 9999. %



49

Incident Energy (eV)

64-Gd-158

MAT 6443 Dpa disappearance (mt102 -120) 64-Gd-158
Cross Section -99.96 To 9999. %

