

Program Complot
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

U.S.A.

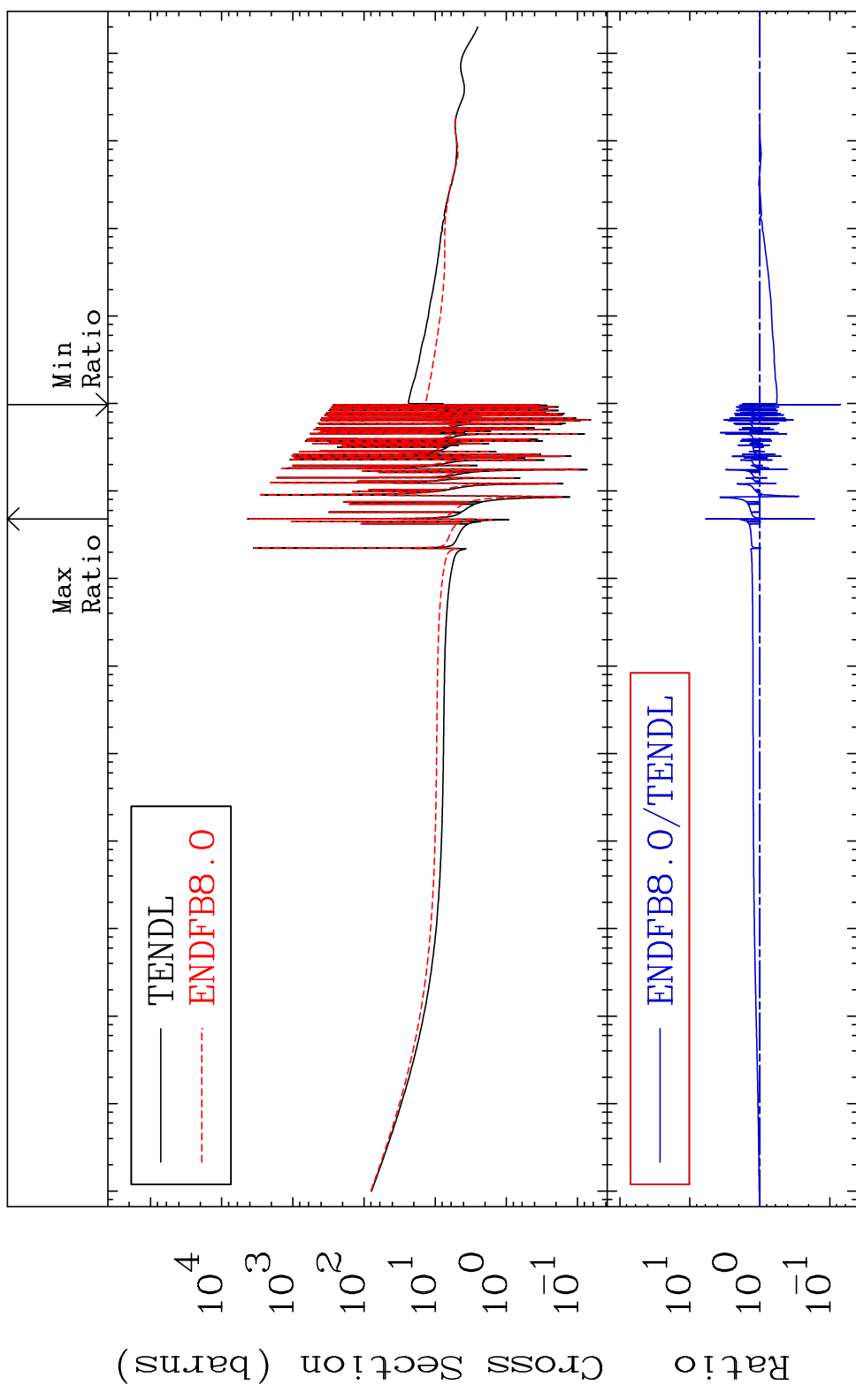
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 6449

Total Cross Section
64-Gd-160
-92.95 To 492.4 %

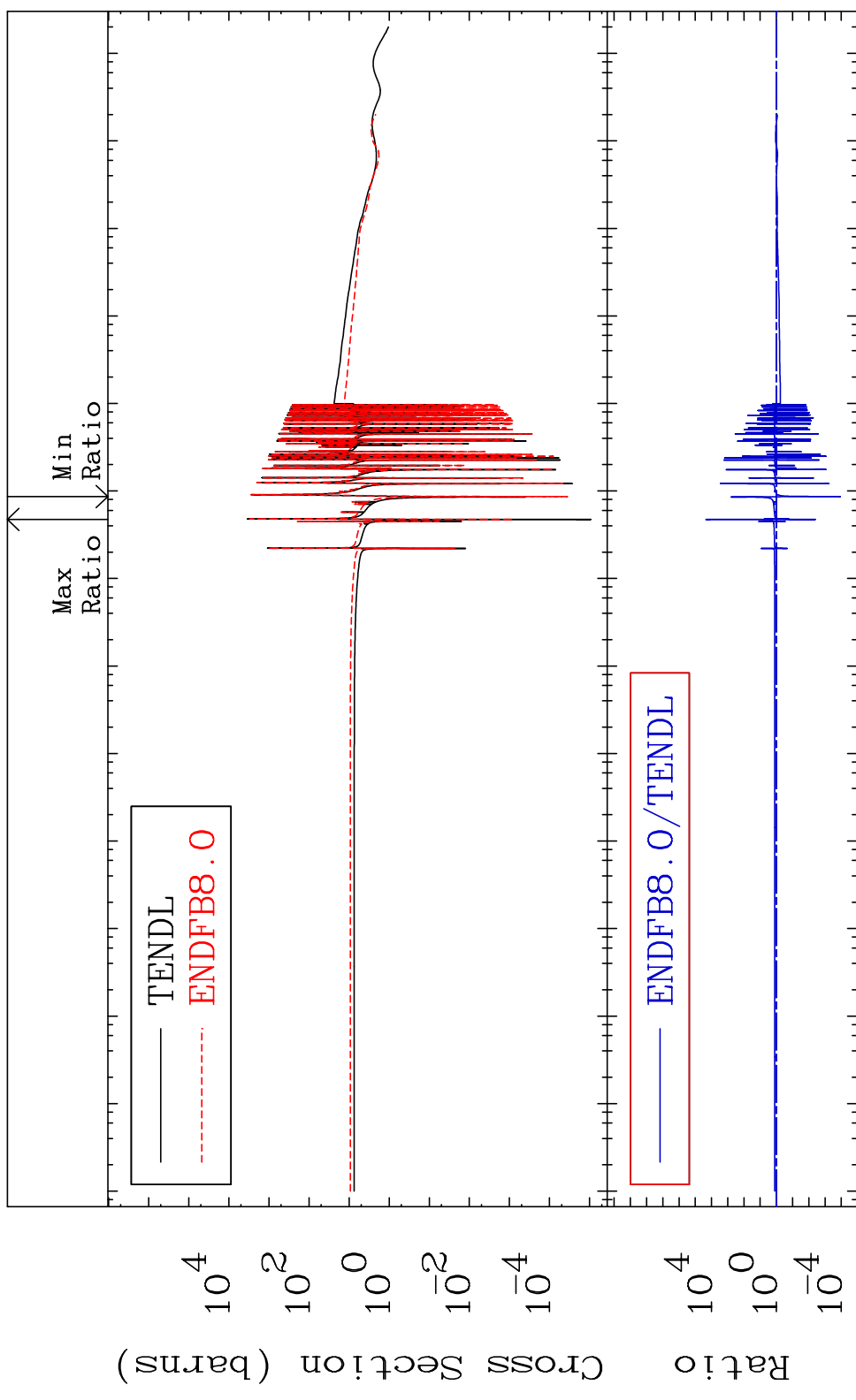


10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

1 Incident Energy (eV) 64-Gd-160

MAT 6449

Elastic Cross Section -99.99 To 9999. % 64-Gd-160



2

Incident Energy (eV) 64-Gd-160

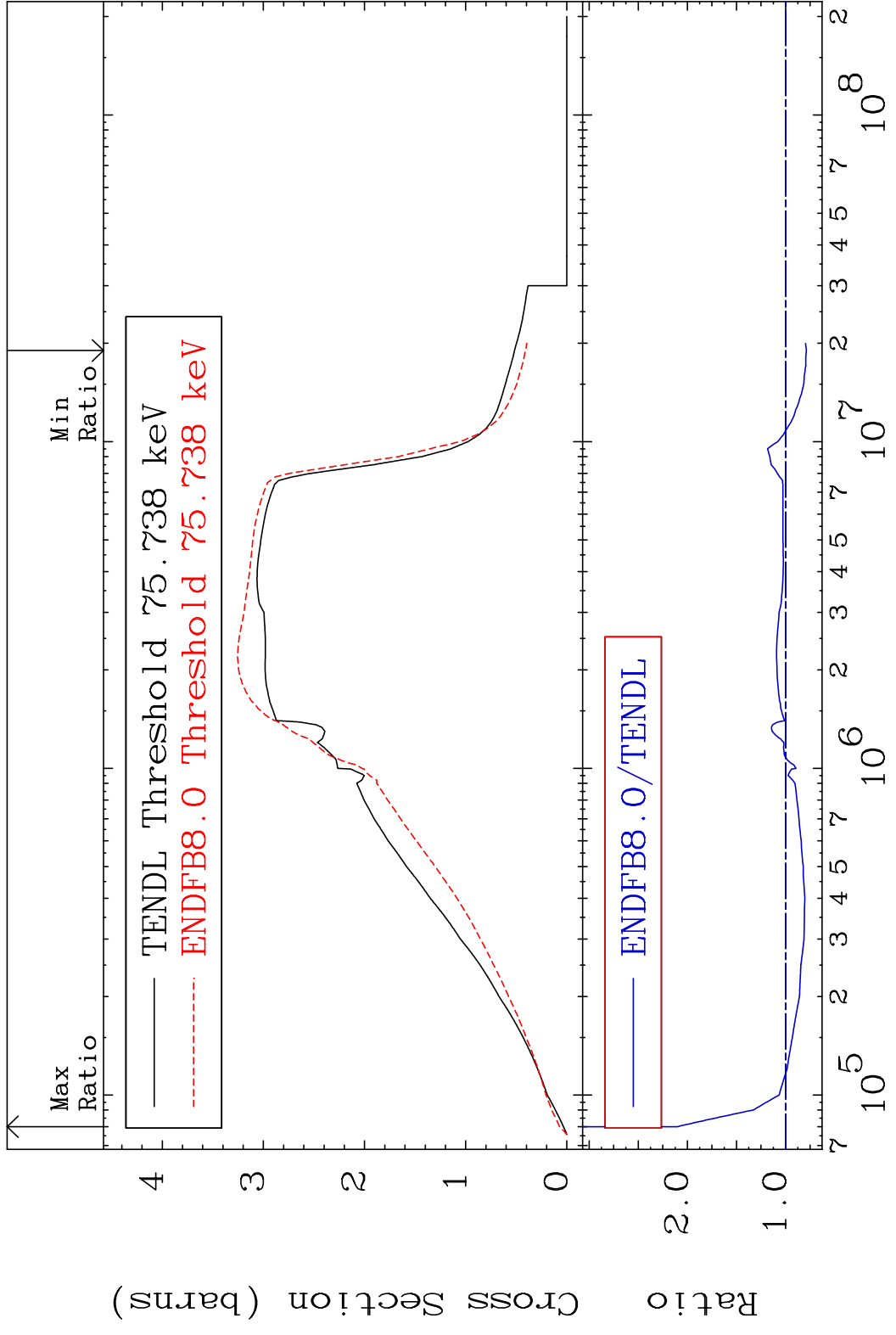
MAT 6449

Inelastic

64-Gd-160

Cross Section

-21.17 To 110.4 %



3

Incident Energy (eV)

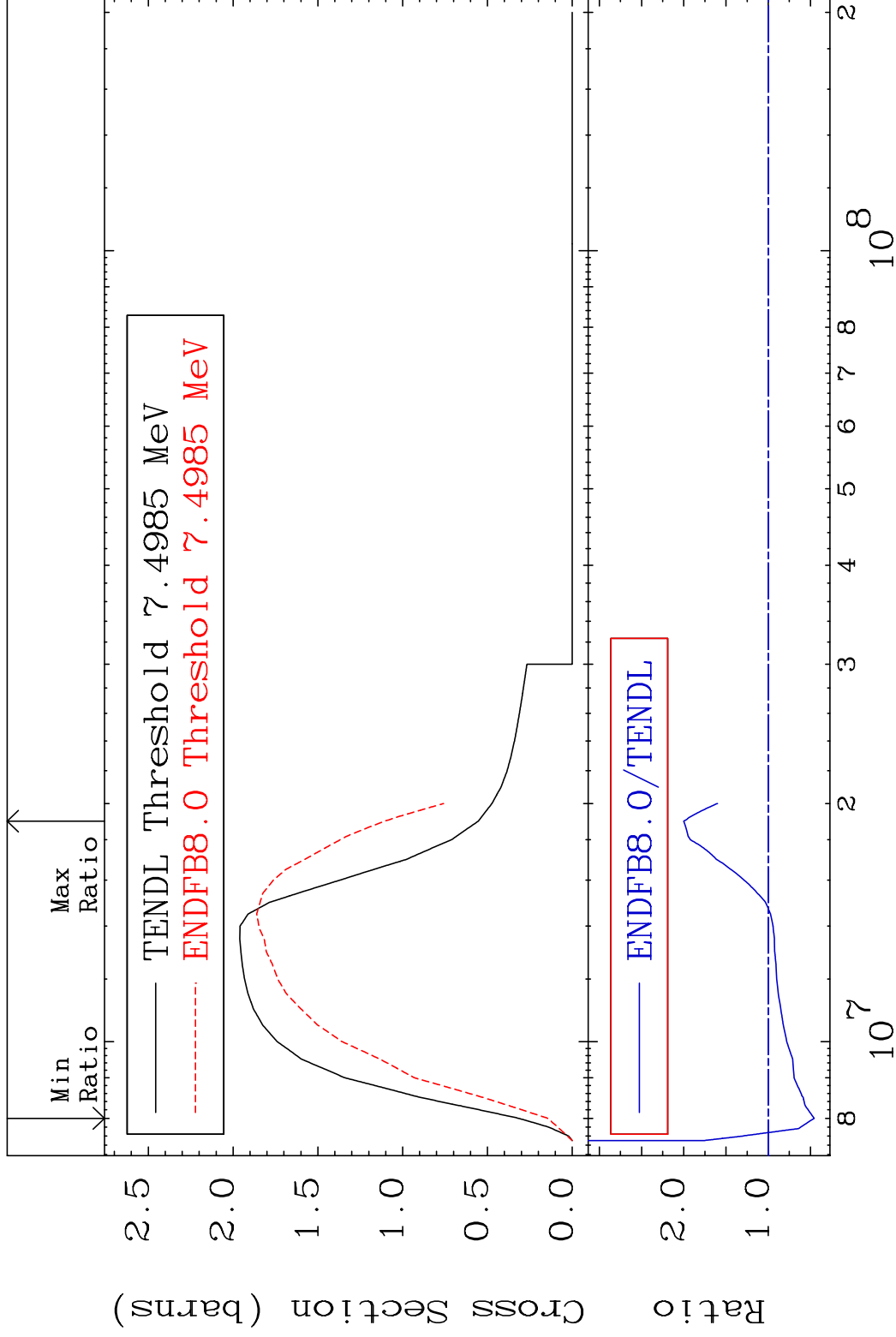
64-Gd-160

MAT 6449

(n,2n)

64-Gd-160

Cross Section -54.31 To 100.1 %



4

Incident Energy (eV)

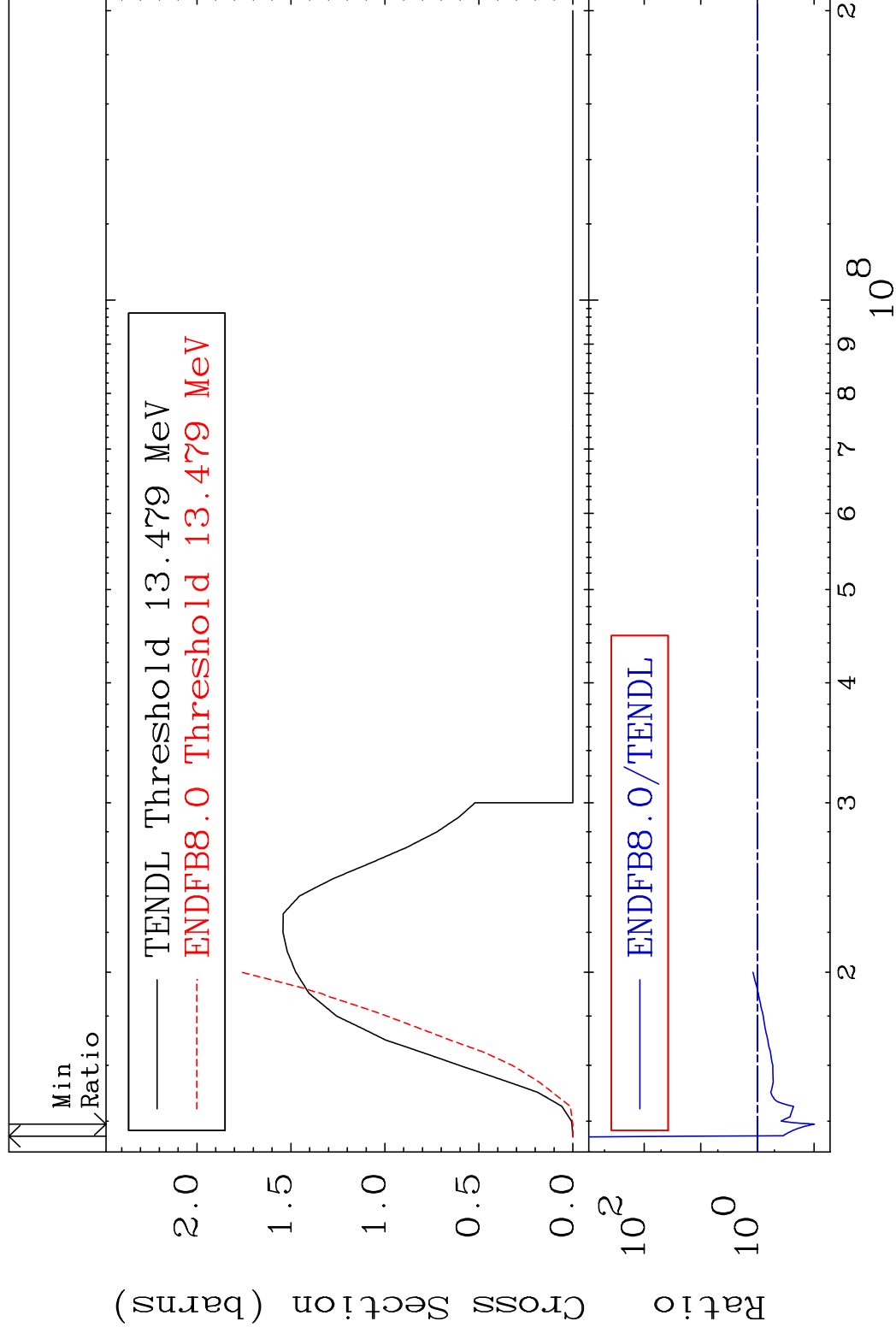
64-Gd-160

MAT 6449

(n,3n)

64-Gd-160

Cross Section -90.12 To 1871. %



5

Incident Energy (eV)

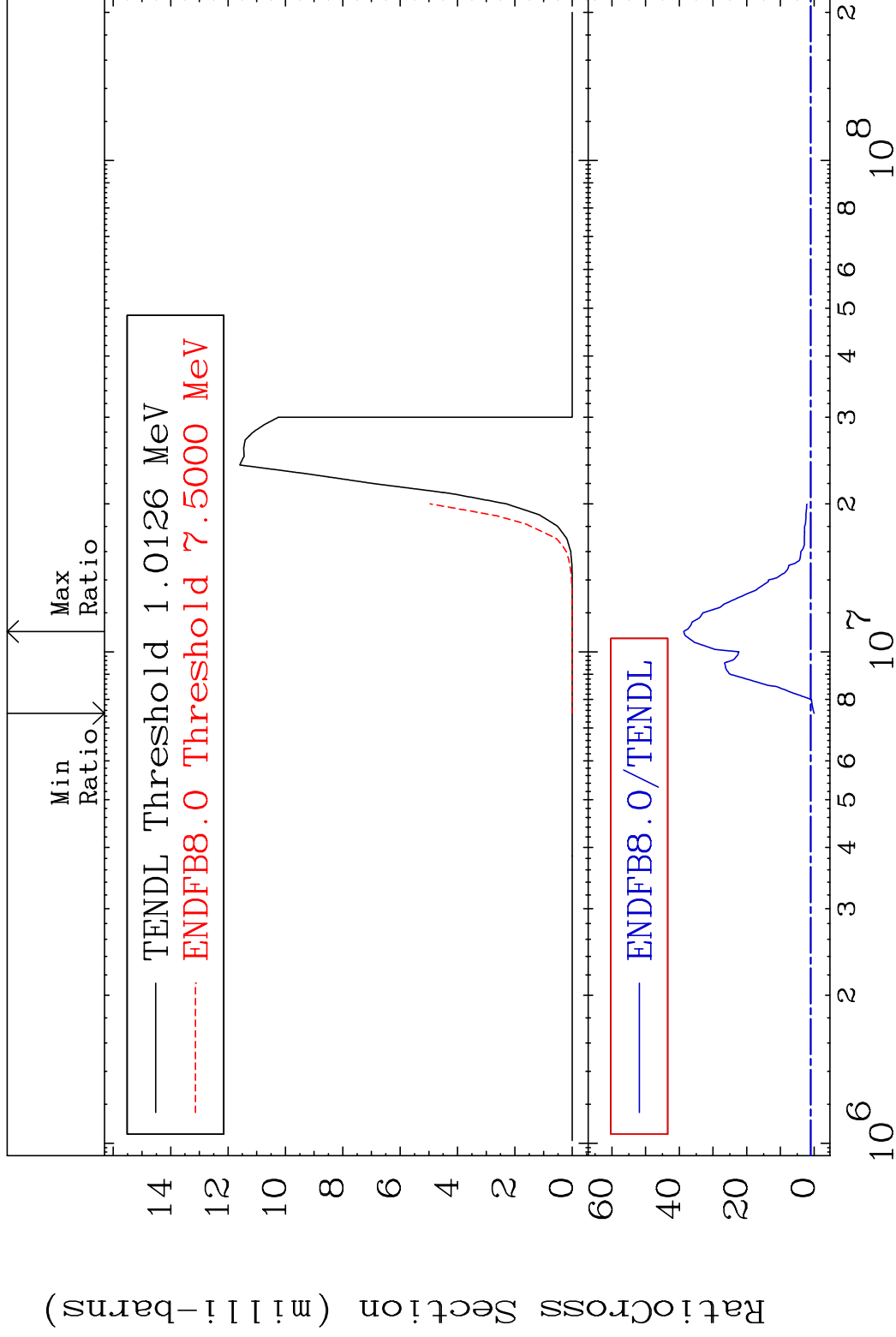
64-Gd-160

MAT 6449

(n, n') α

64-Gd-160

Cross Section -100.0 To 3771. %



6

Incident Energy (eV)

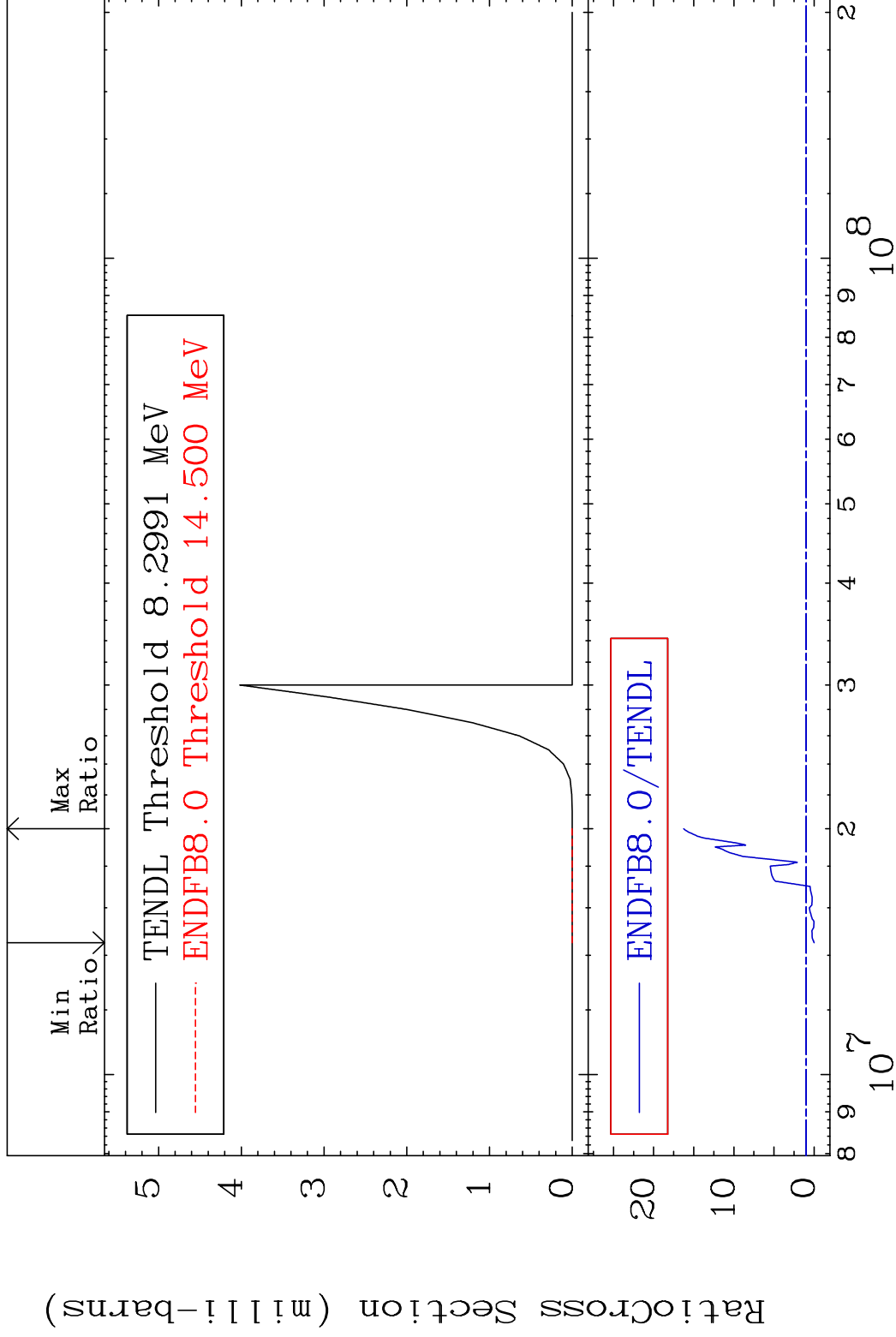
64-Gd-160

MAT 6449

(n,2n) α

64-Gd-160

Cross Section -100.0 To 1526. %



7

Incident Energy (eV)

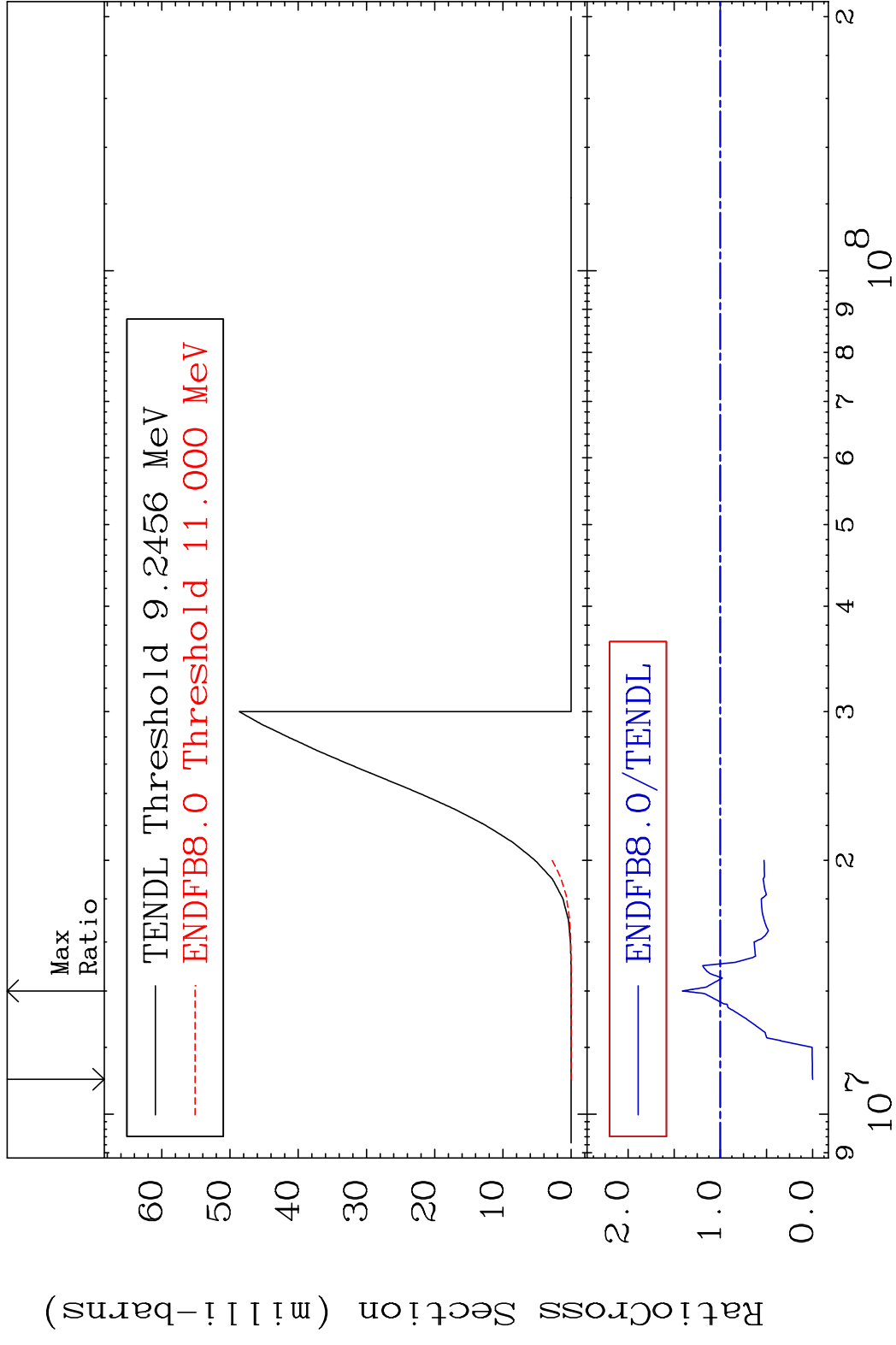
64-Gd-160

MAT 6449

64-Gd-160

(n, n') p

Cross Section -100.0 To 41.19 %



8

Incident Energy (eV)

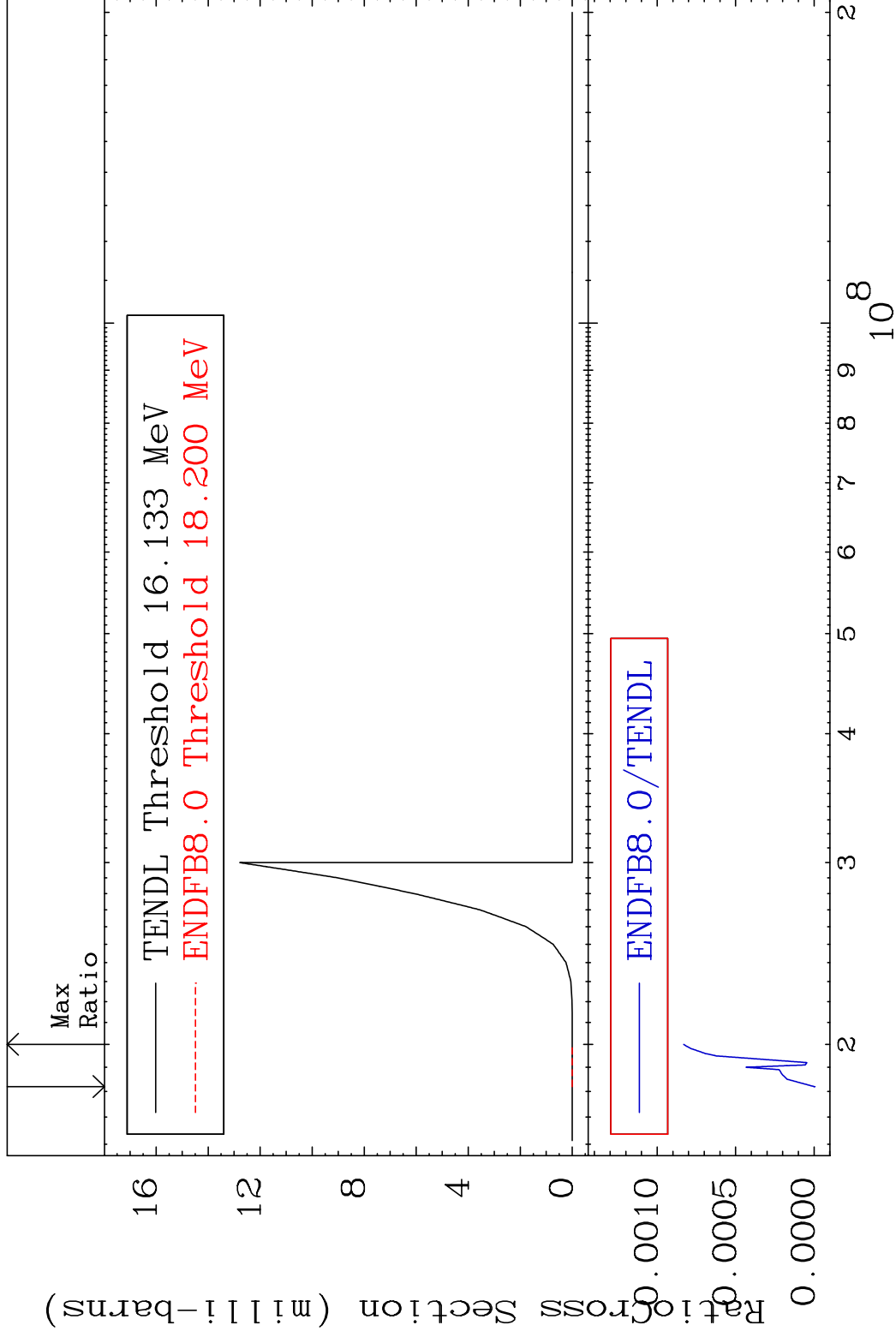
64-Gd-160

MAT 6449

(n,2n) p

64-Gd-160

Cross Section -100.0 To -99.92%

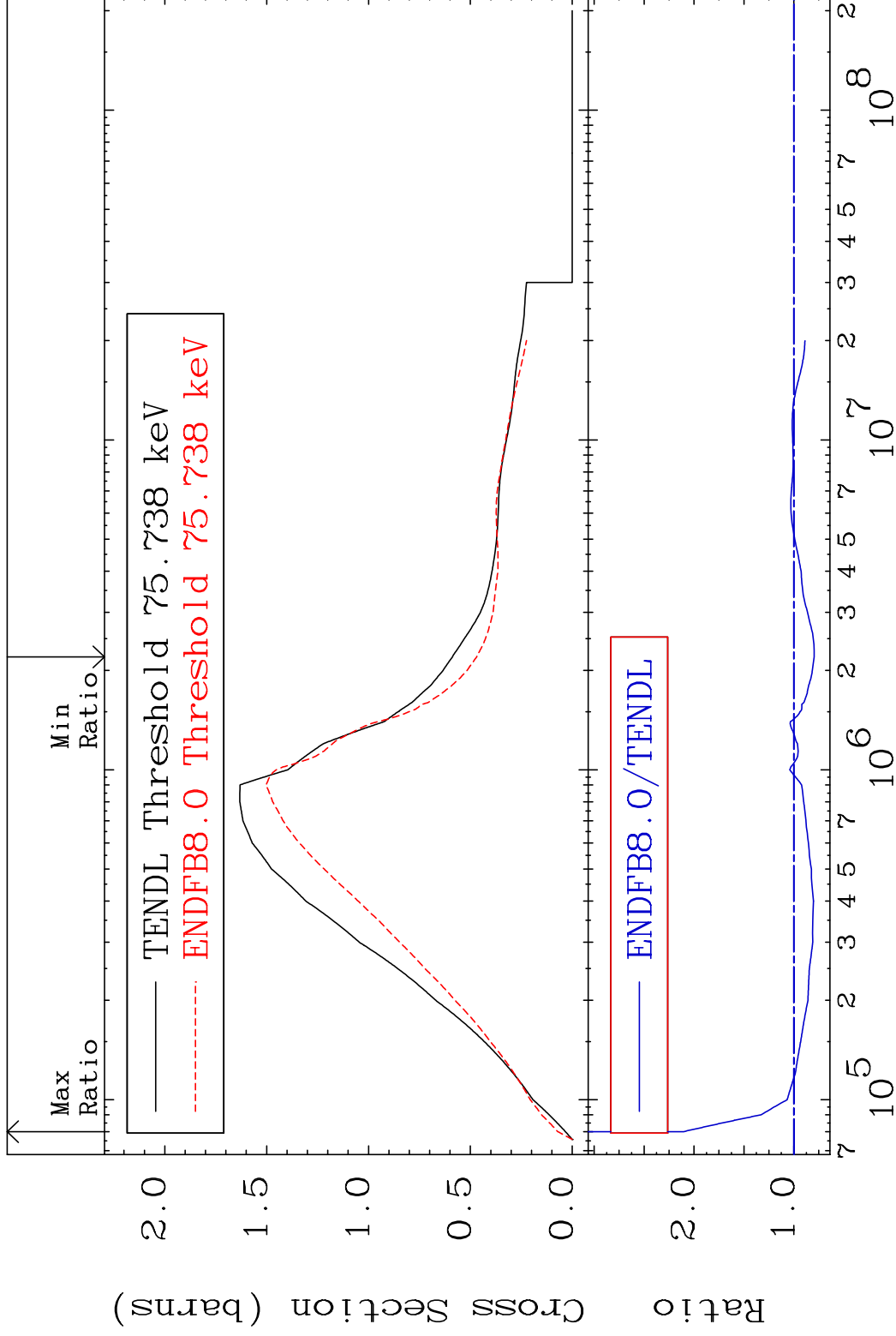


MAT 6449

MT= 51 (n,n') Level

64-Gd-160

Cross Section -20.32 To 110.4 %

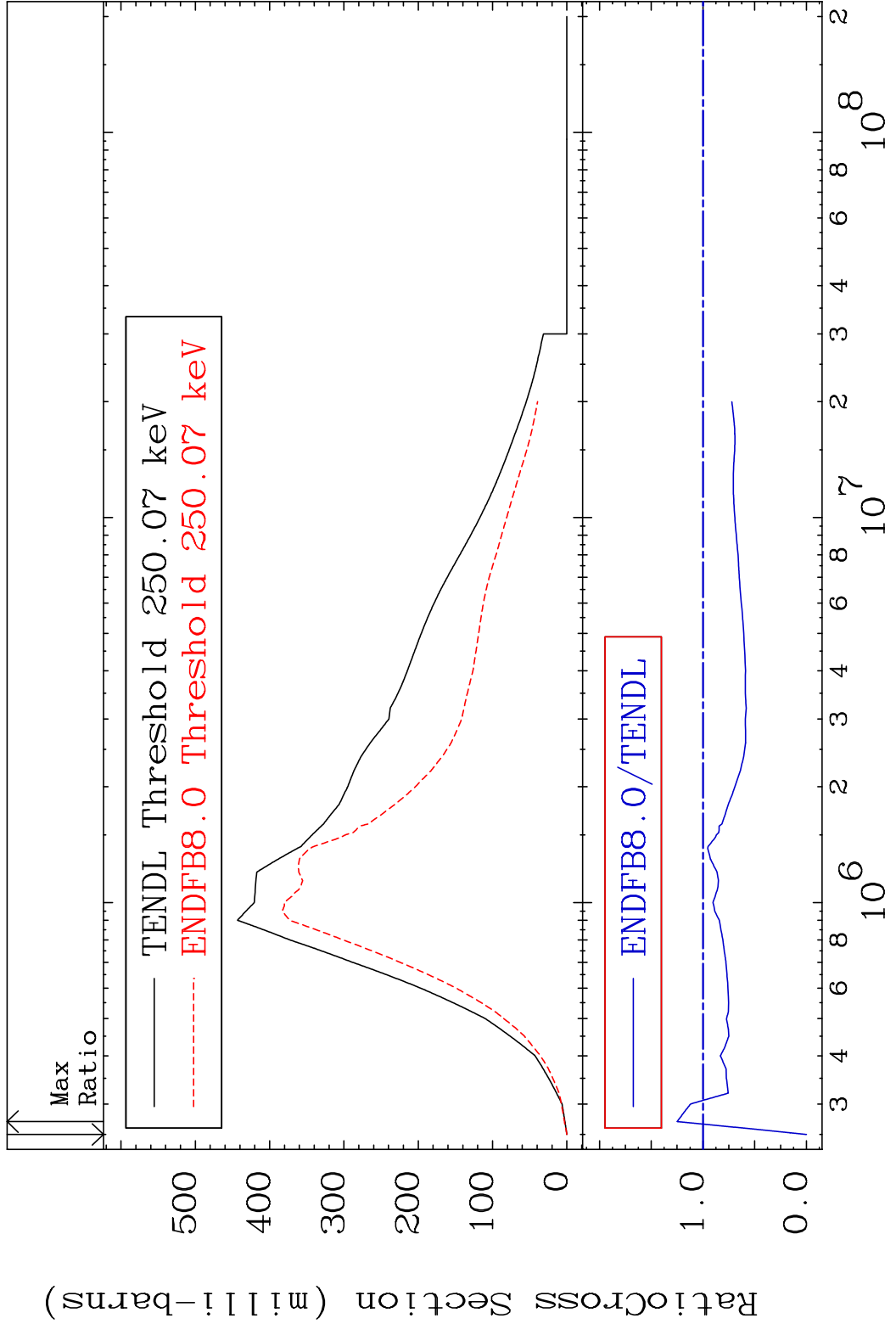


10

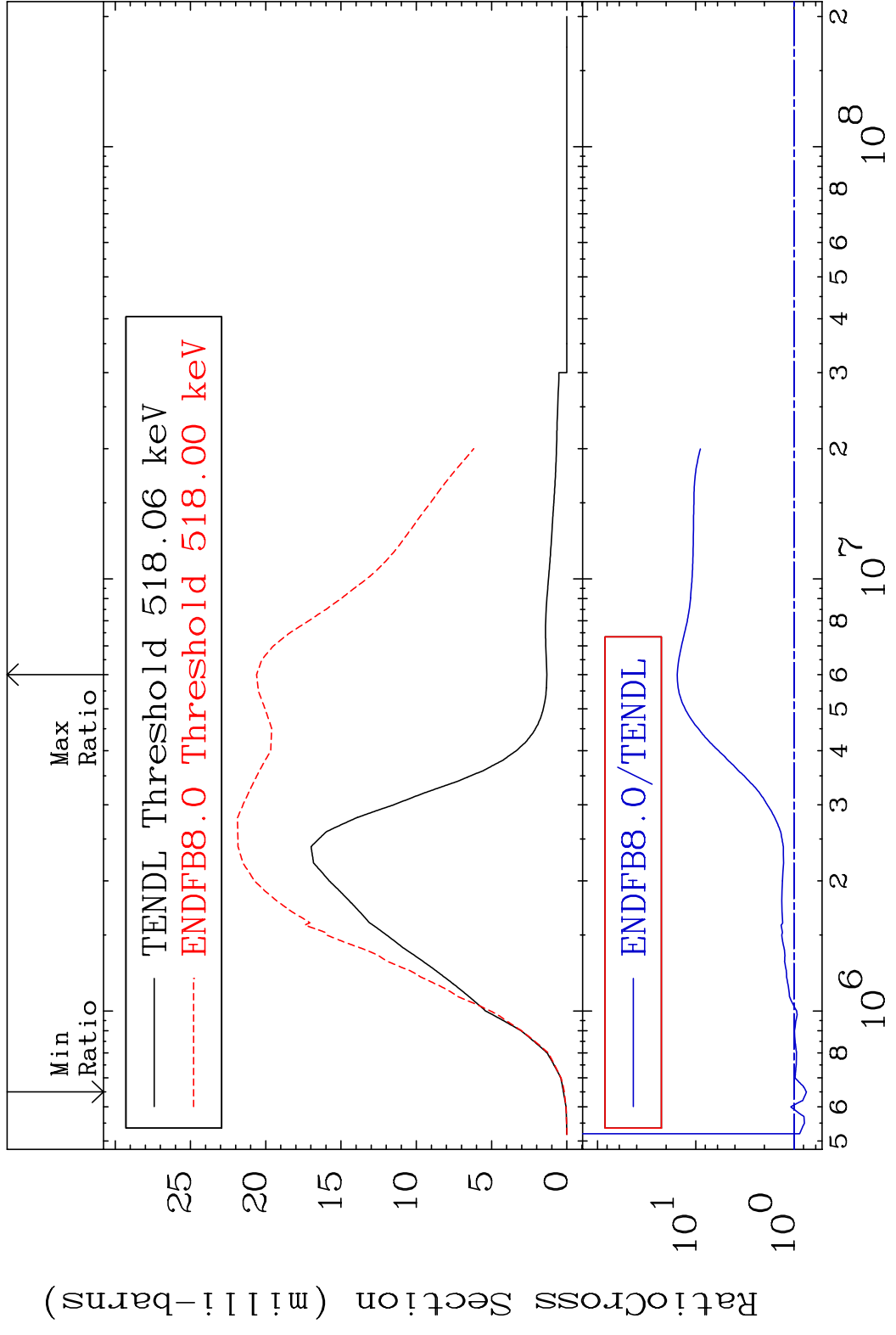
Incident Energy (eV)

64-Gd-160

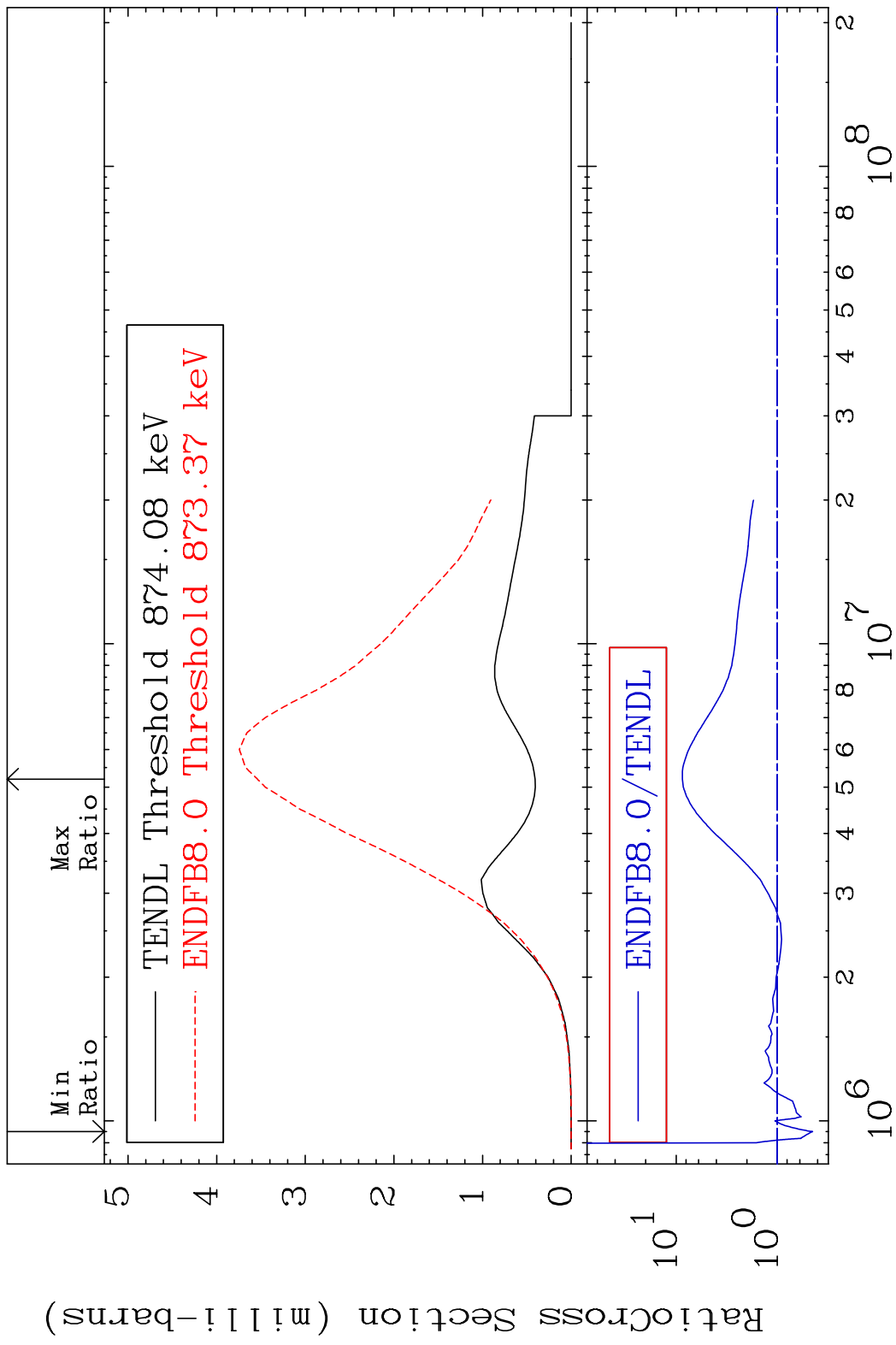
MAT 6449 MT= 52 (n,n') Level 64-Gd-160
 Cross Section -100.0 To 24.90 %



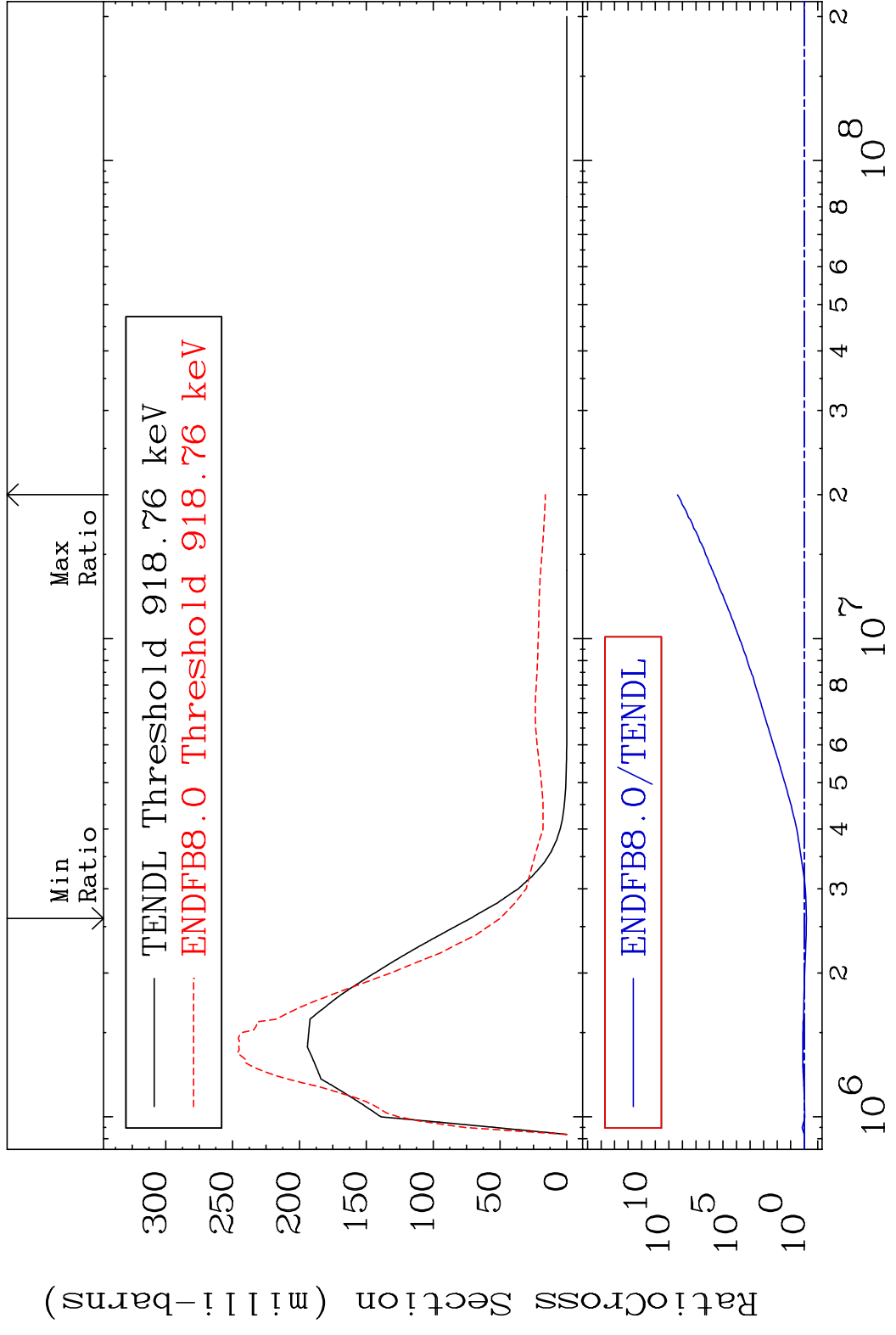
MAT 6449 MT= 53 (n, n') Level 64-Gd-160
 Cross Section -25.18 To 1446. %



MAT 6449 MT= 54 (n, n') Level 64-Gd-160
 Cross Section -55.12 To 768.0 %

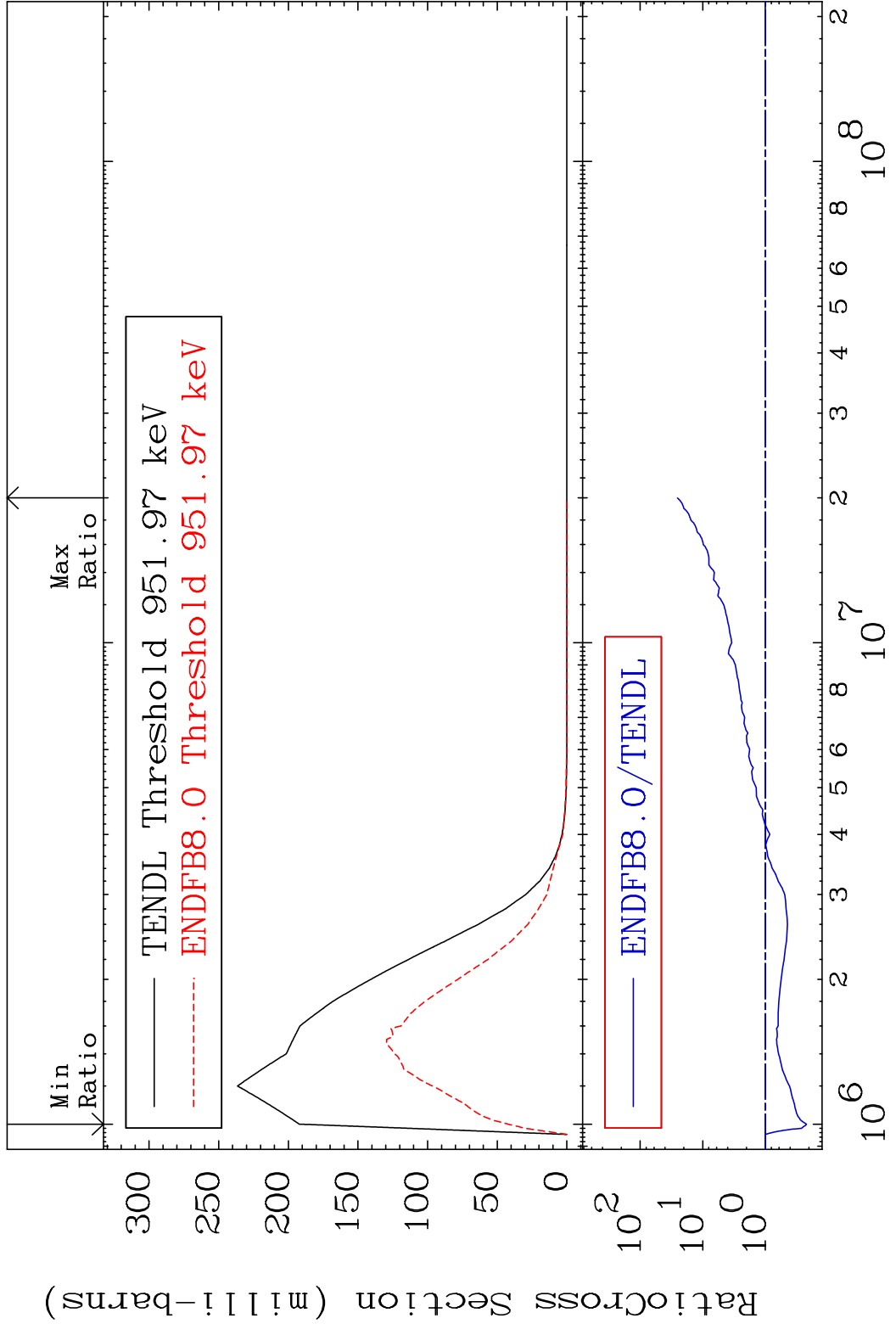


MAT 6449 MT= 55 (n, n') Level 64-Gd-160
 Cross Section -30.79 To 9999. %



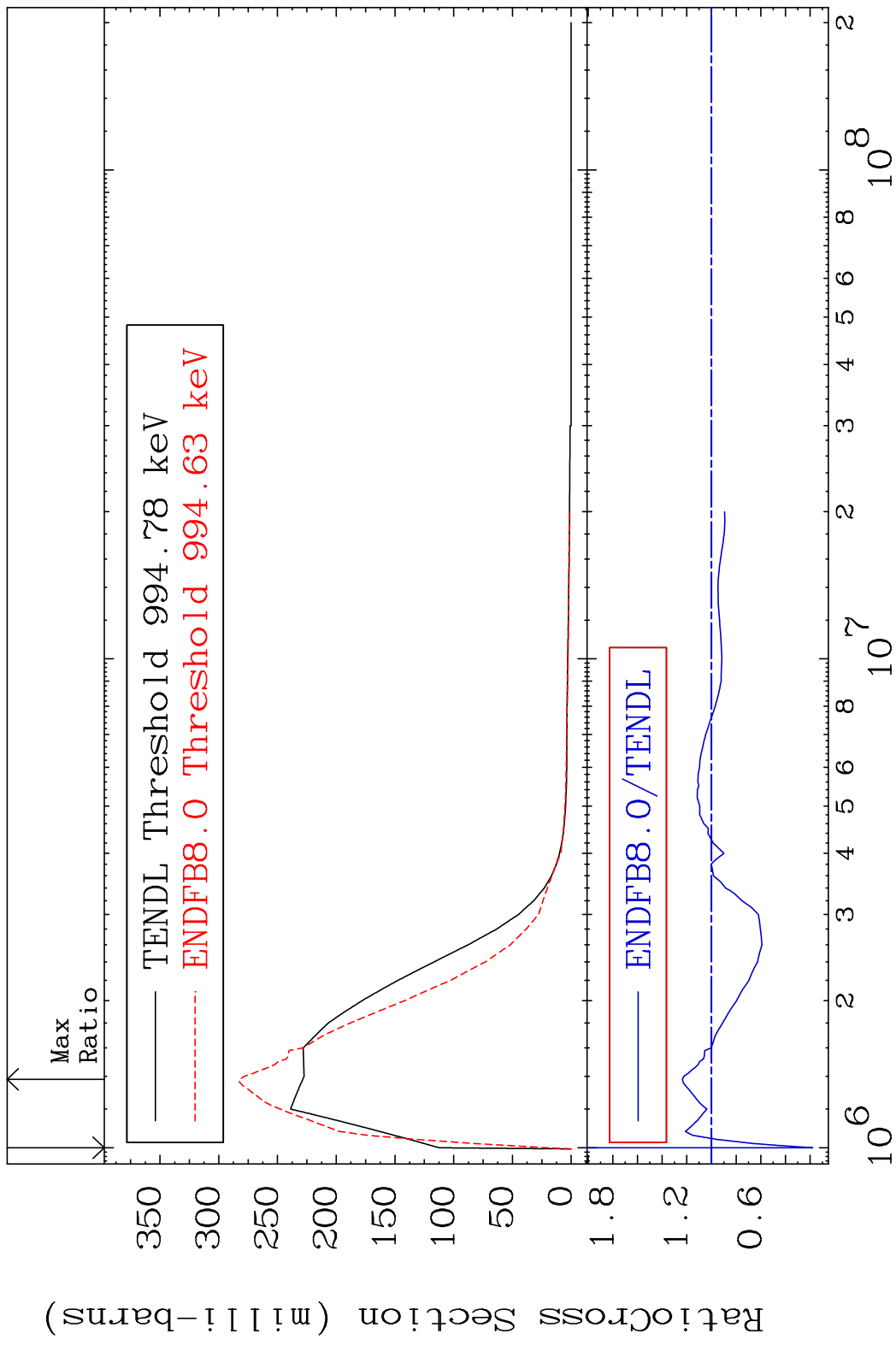
14 Incident Energy (eV) 64-Gd-160

MAT 6449 MT= 56 (n, n') Level 64-Gd-160
 Cross Section -78.06 To 2461. %



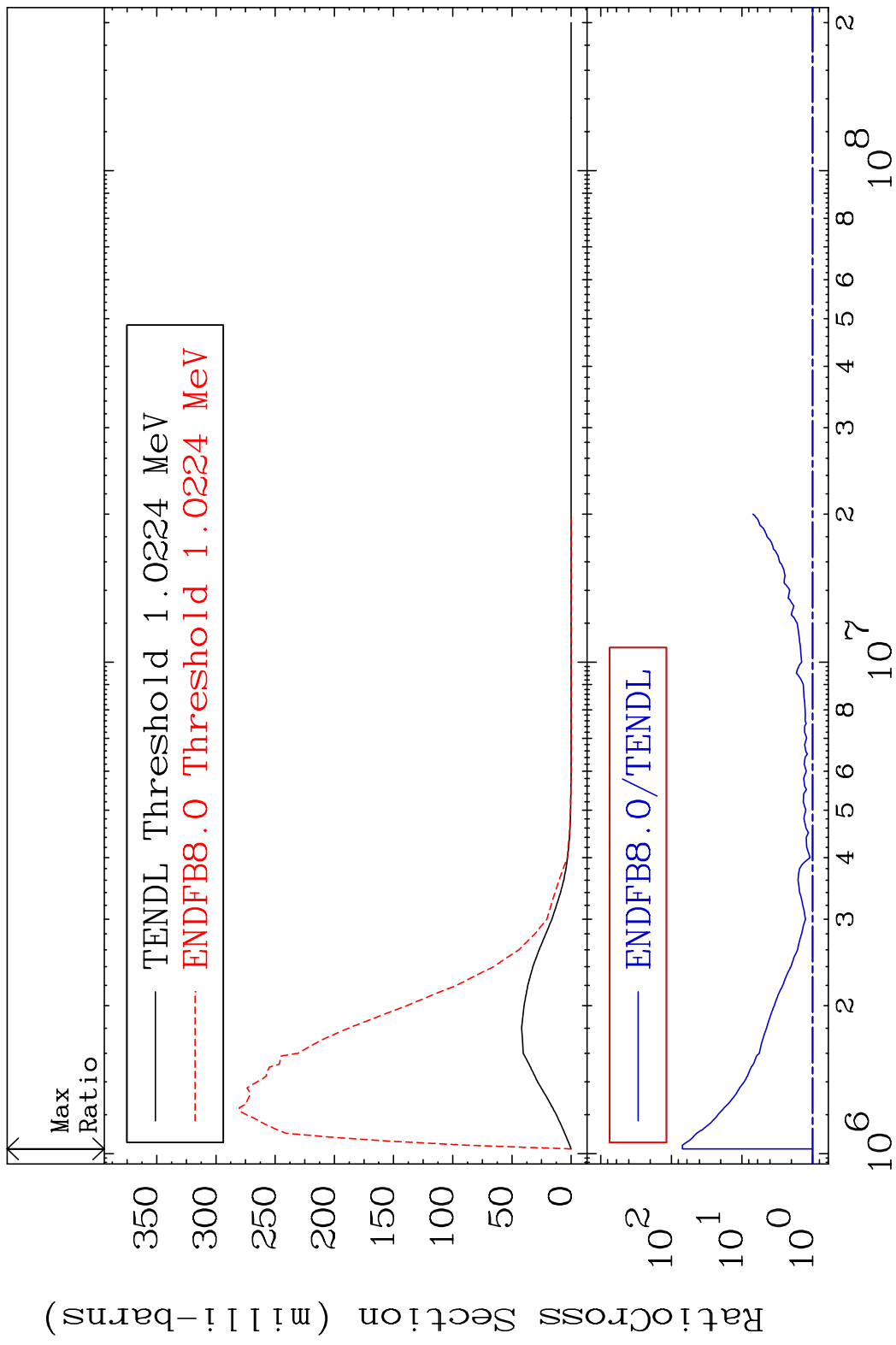
15 Incident Energy (eV) 64-Gd-160

MAT 6449 MT= 57 (n,n') Level 64-Gd-160
 Cross Section -81.97 To 23.60 %



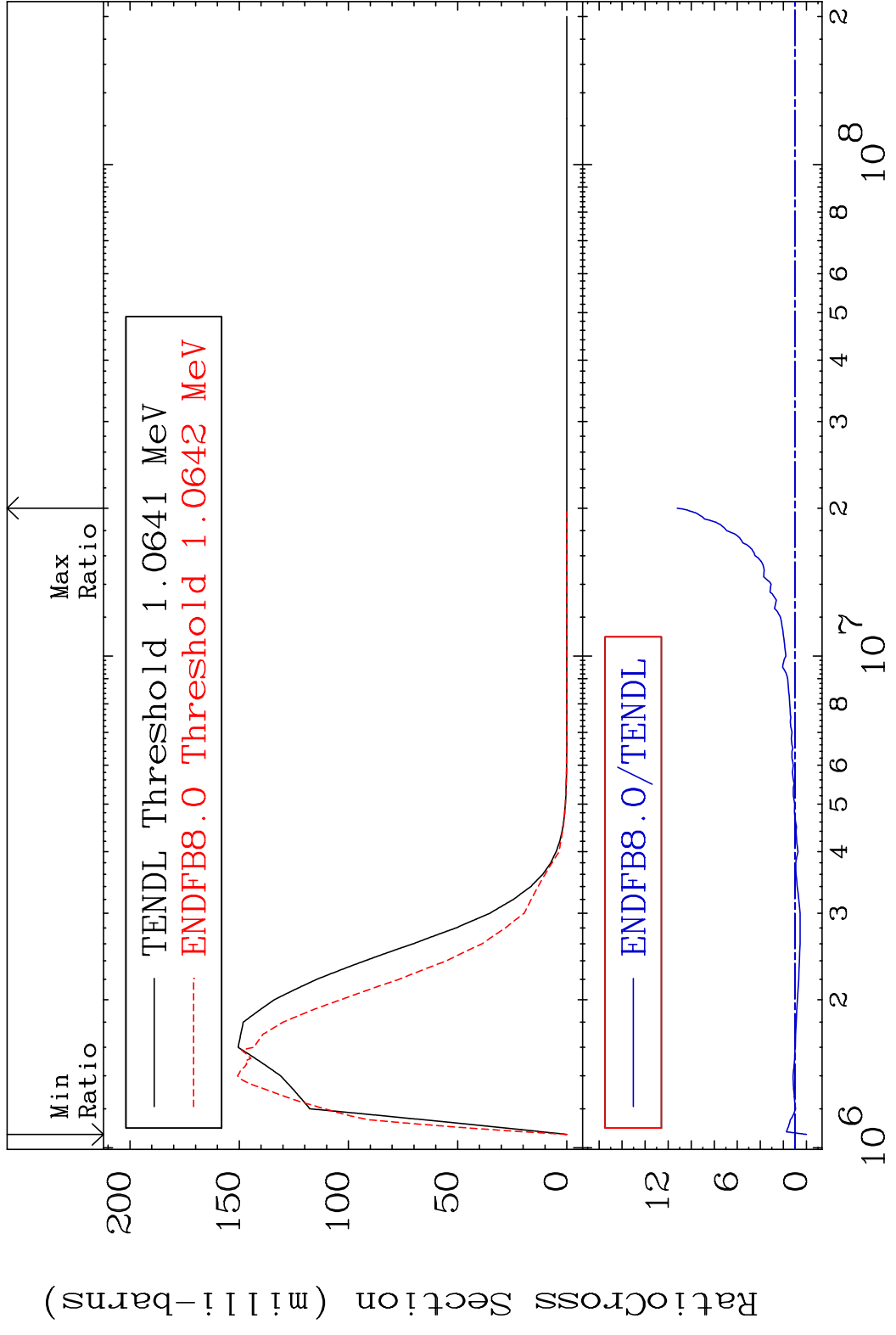
16 Incident Energy (eV) 64-Gd-160

MAT 6449 MT= 58 (n,n') Level 64-Gd-160
 Cross Section 0.000 To 6895. %



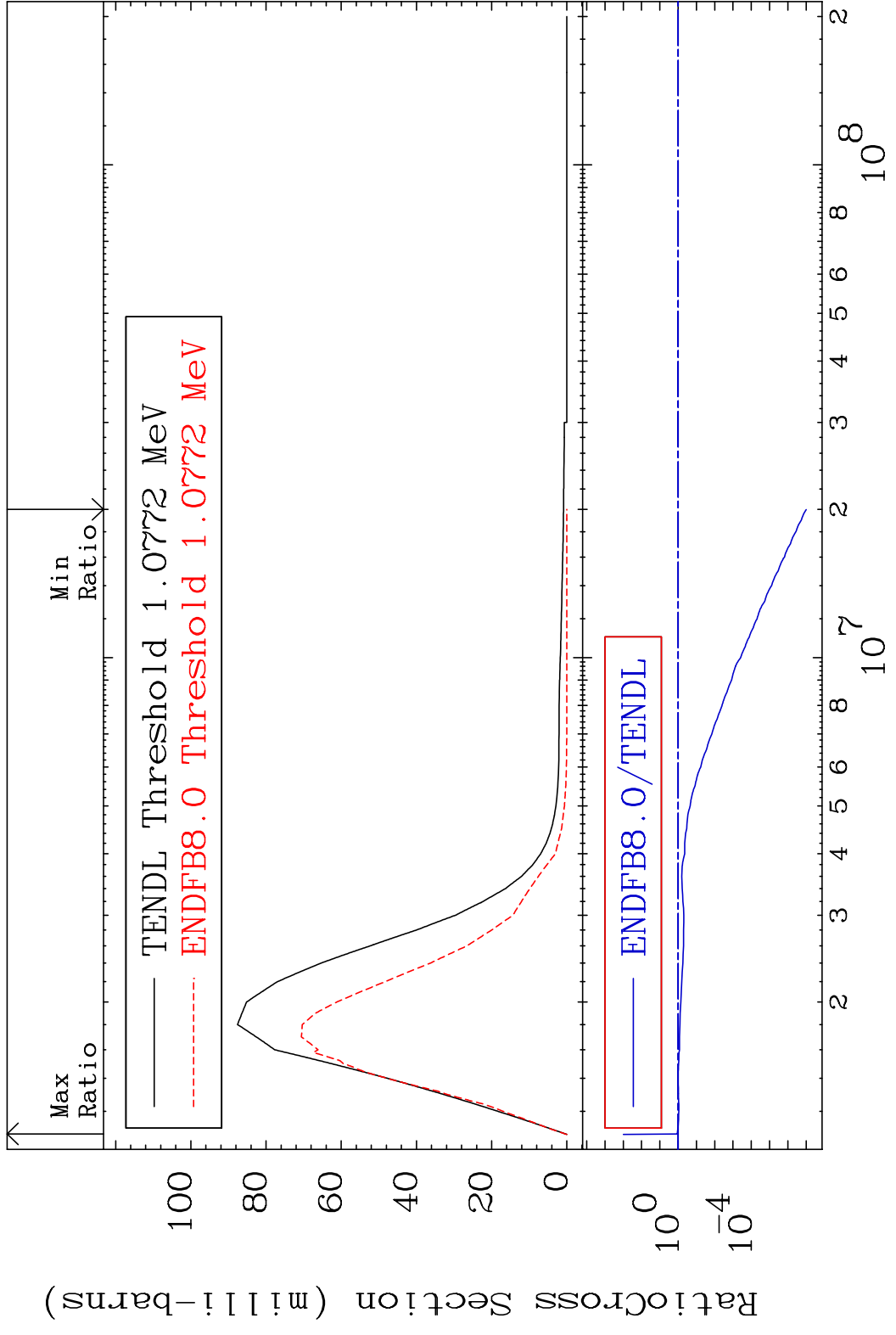
17 Incident Energy (eV) 64-Gd-160

MAT 6449 MT= 59 (n, n') Level 64-Gd-160
 Cross Section -100.0 To 1022. %

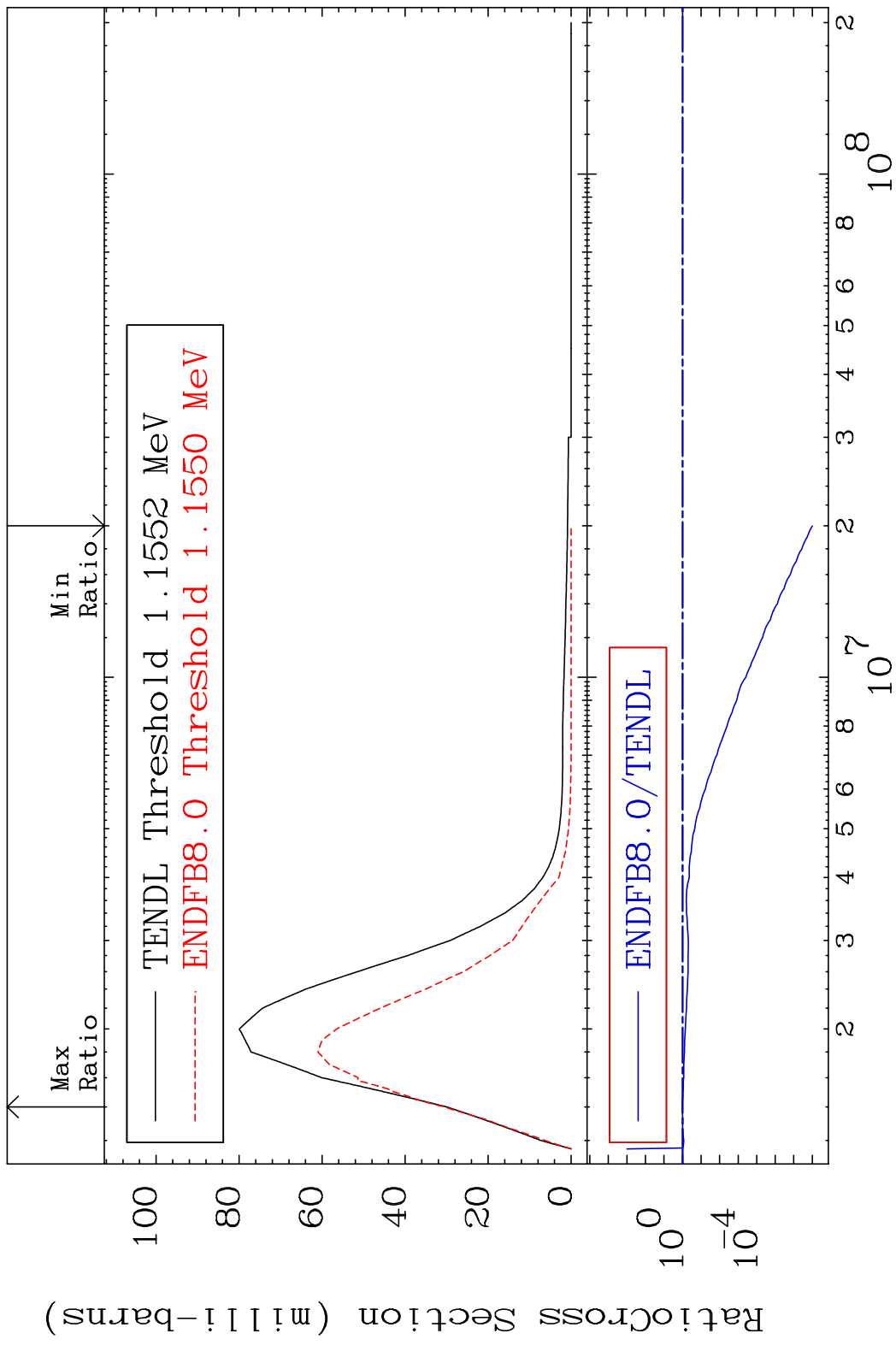


18 64-Gd-160

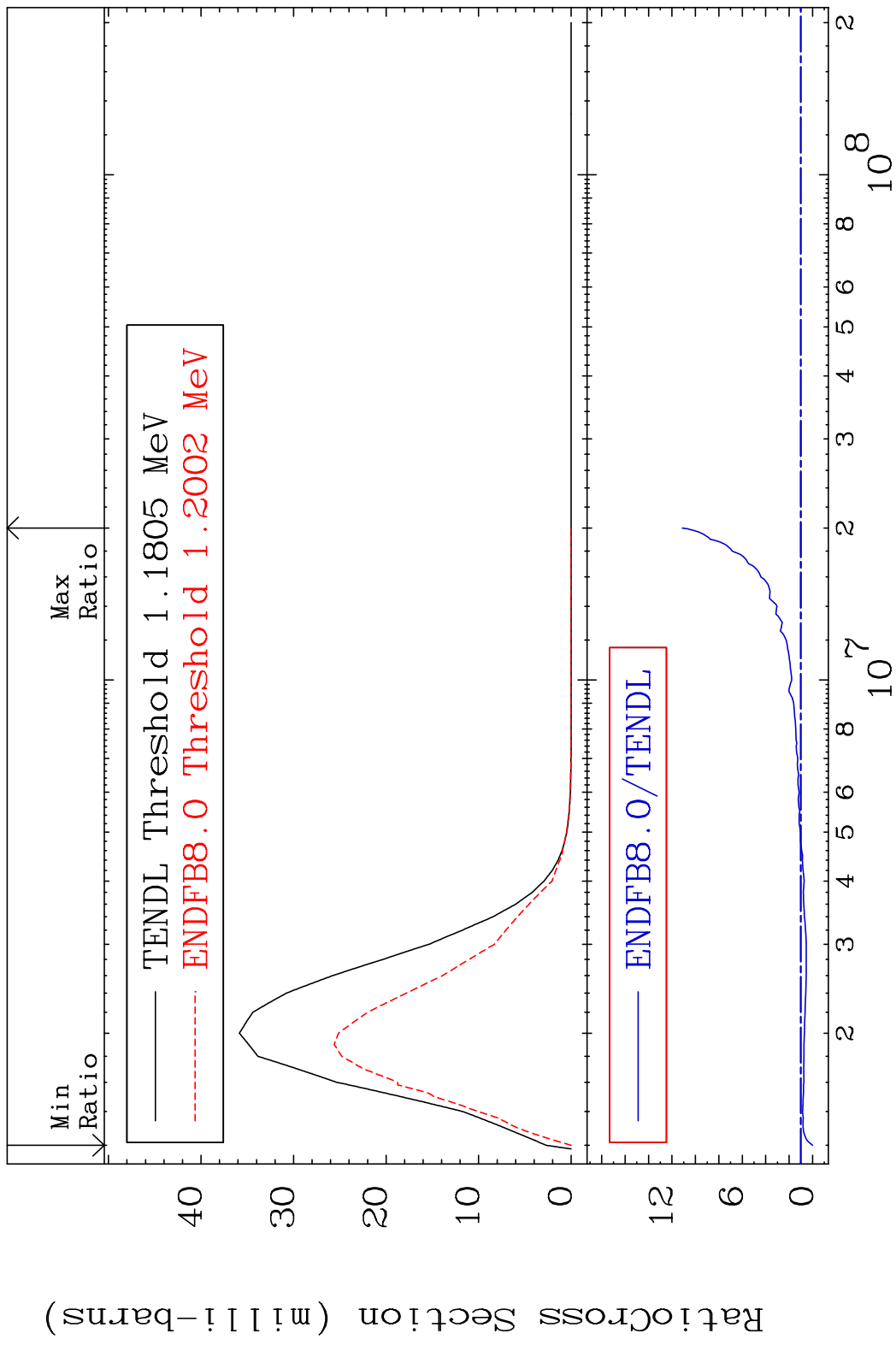
MAT 6449 MT= 60 (n, n') Level 64-Gd-160
 Cross Section -100.0 To 12.58 %



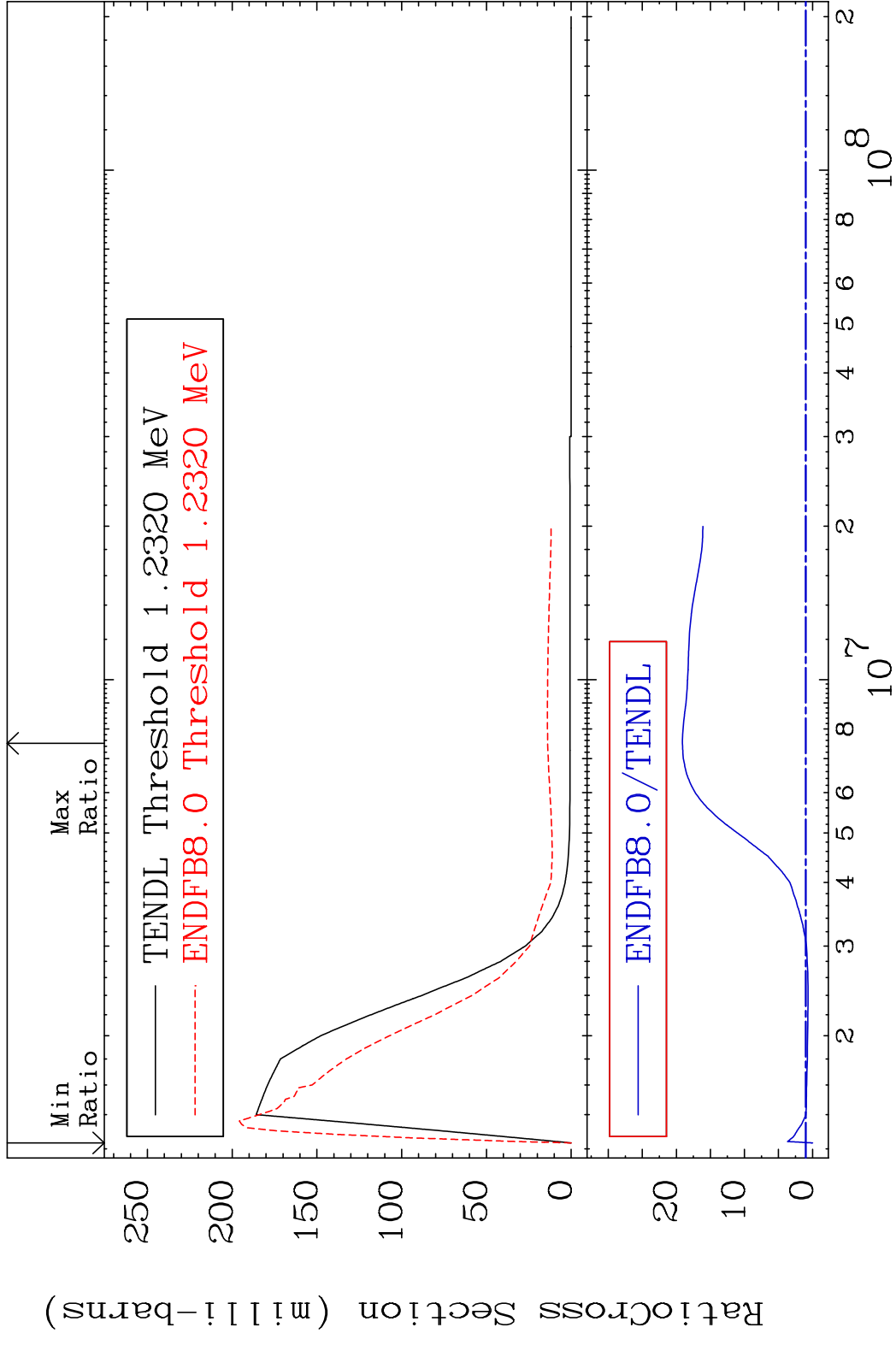
MAT 6449 MT= 61 (n, n') Level 64-Gd-160
 Cross Section -100.0 To 2.025 %



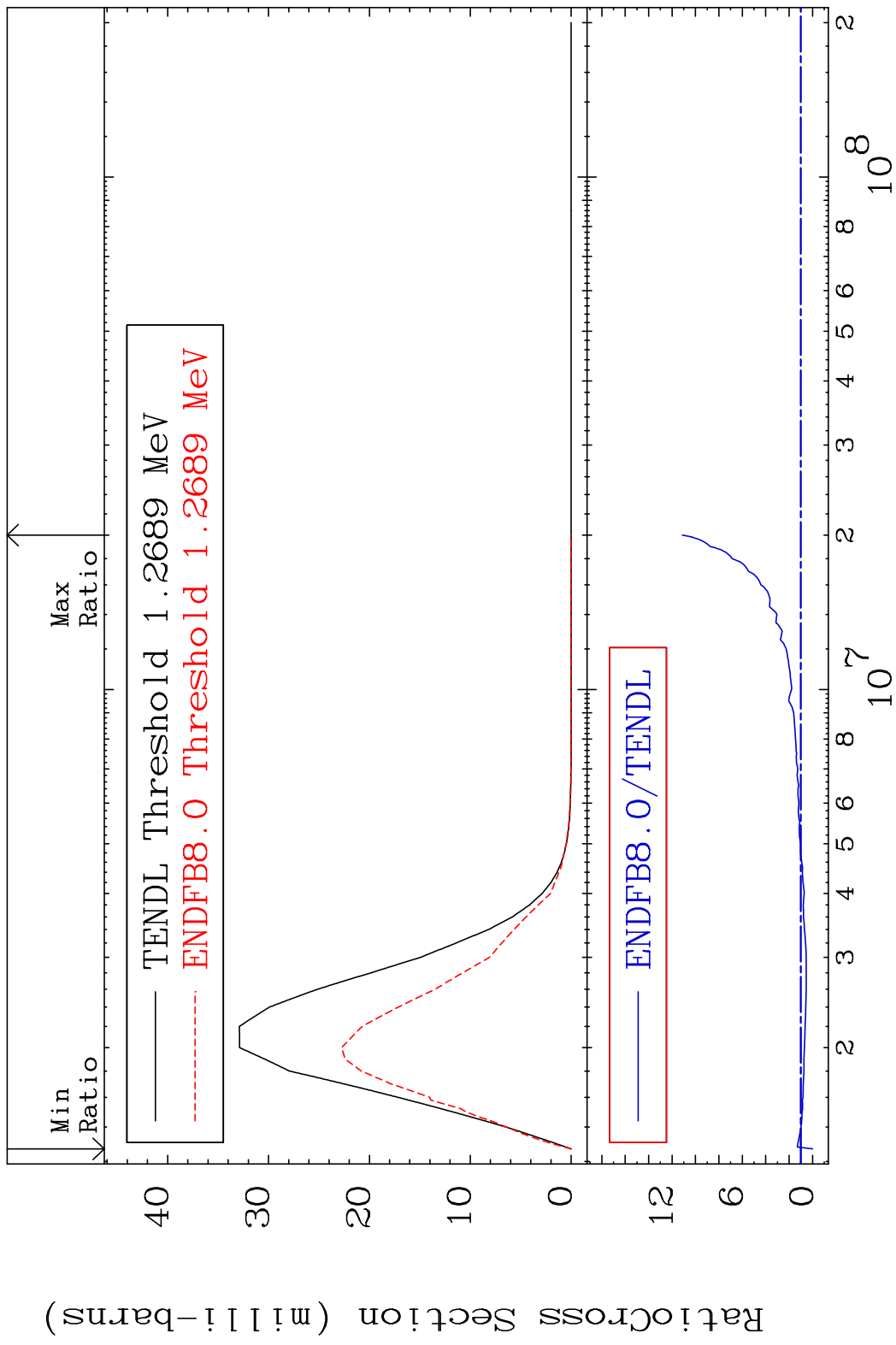
MAT 6449 MT= 62 (n, n') Level 64-Gd-160
 Cross Section -100.0 To 1012. %



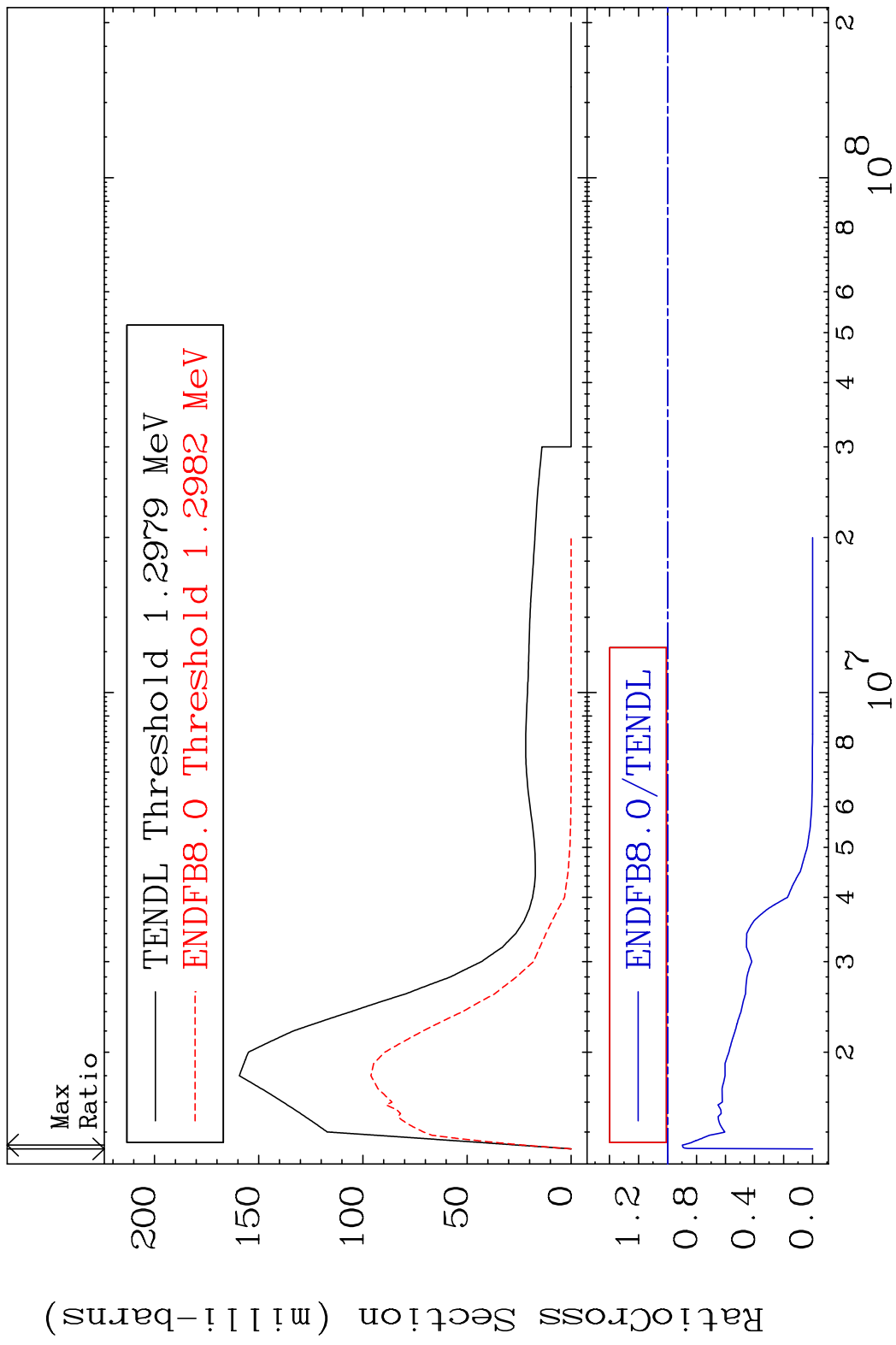
MAT 6449 MT= 63 (n, n') Level 64-Gd-160
 Cross Section -100.0 To 1812. %



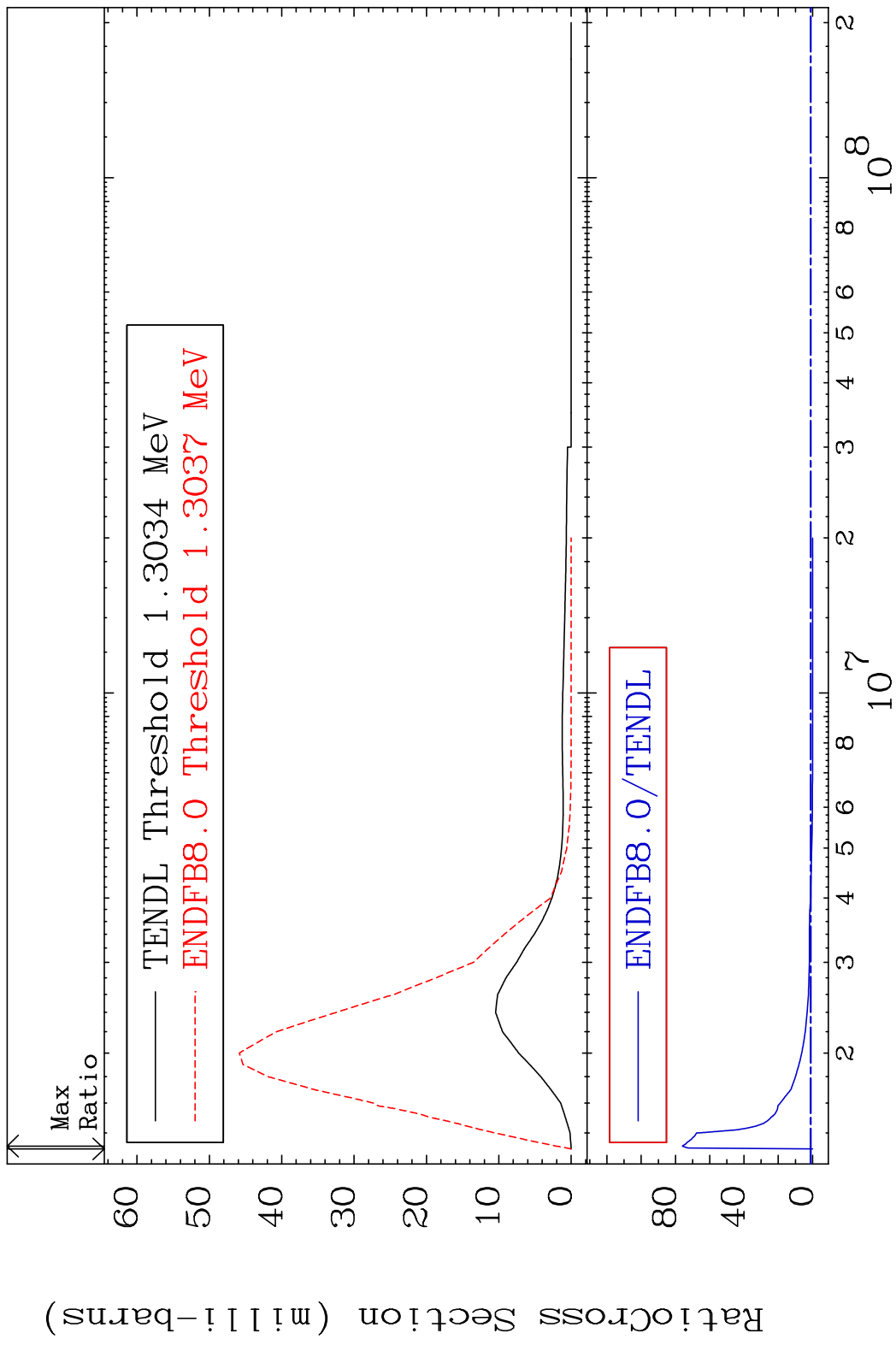
MAT 6449 MT= 64 (n, n') Level 64-Gd-160
 Cross Section -100.0 To 1012. %



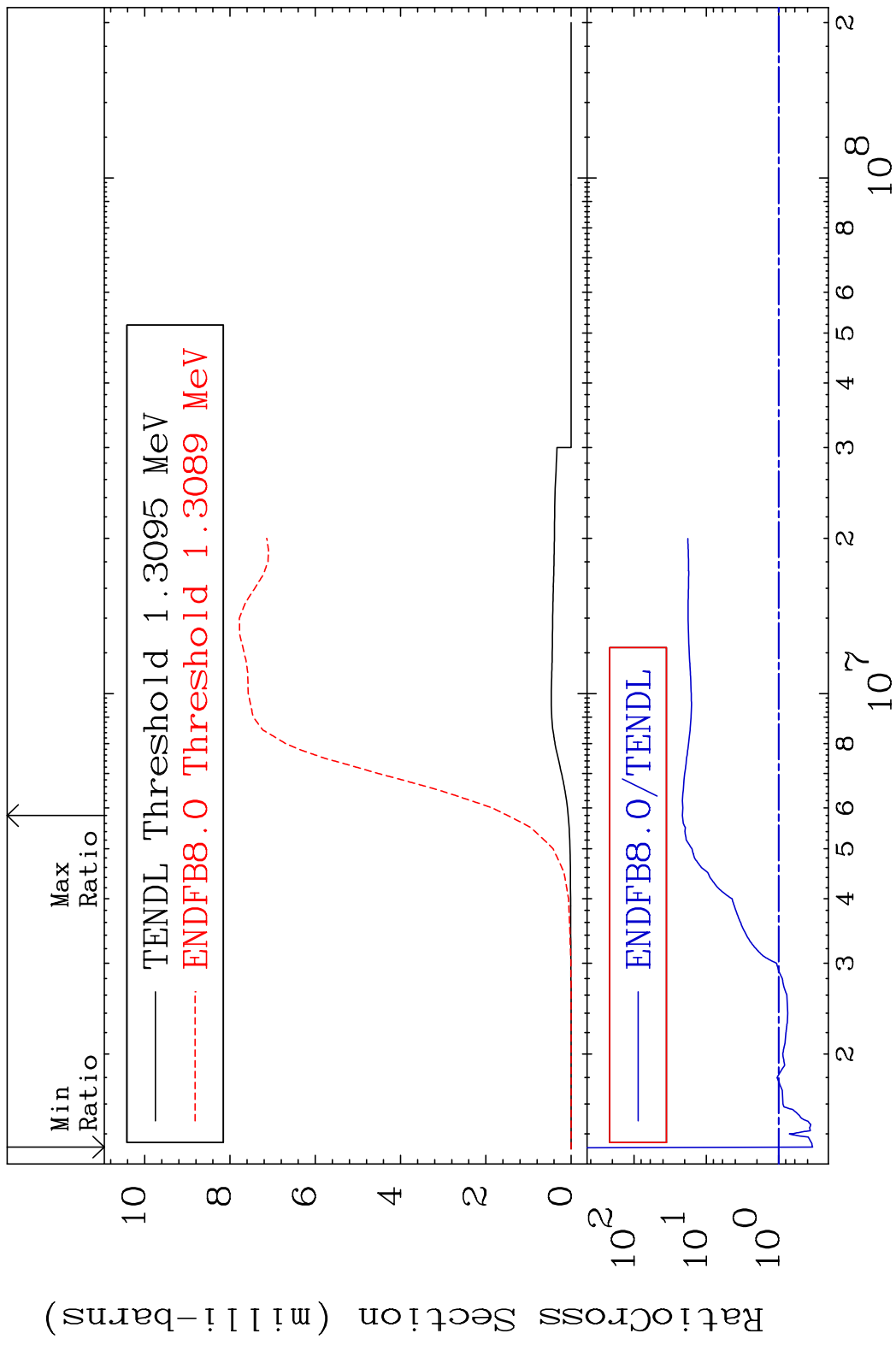
MAT 6449 MT= 65 (n,n') Level 64-Gd-160
 Cross Section -100.0 To -10.22%



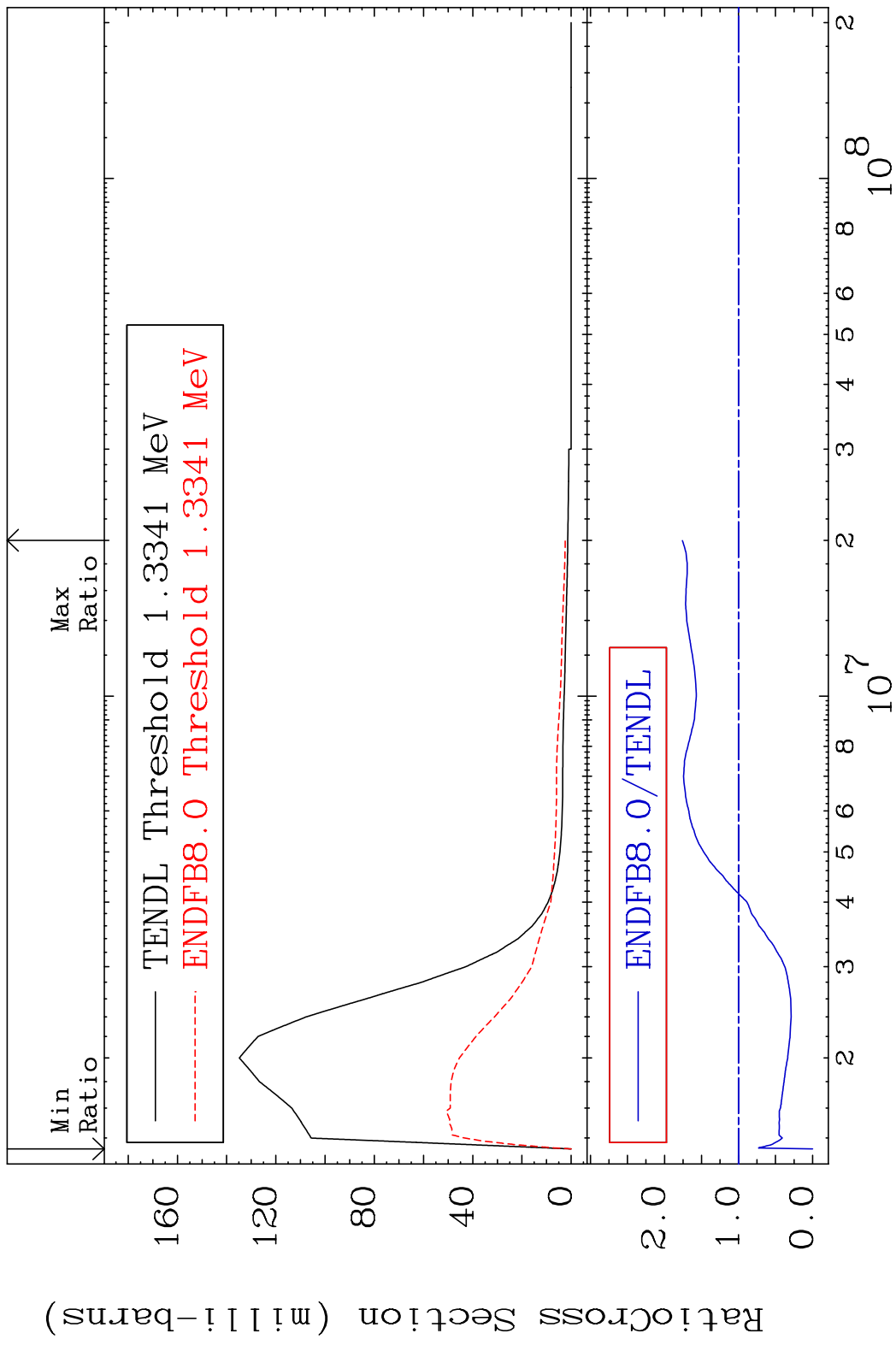
MAT 6449 MT= 66 (n,n') Level 64-Gd-160
 Cross Section -100.0 To 7498. %



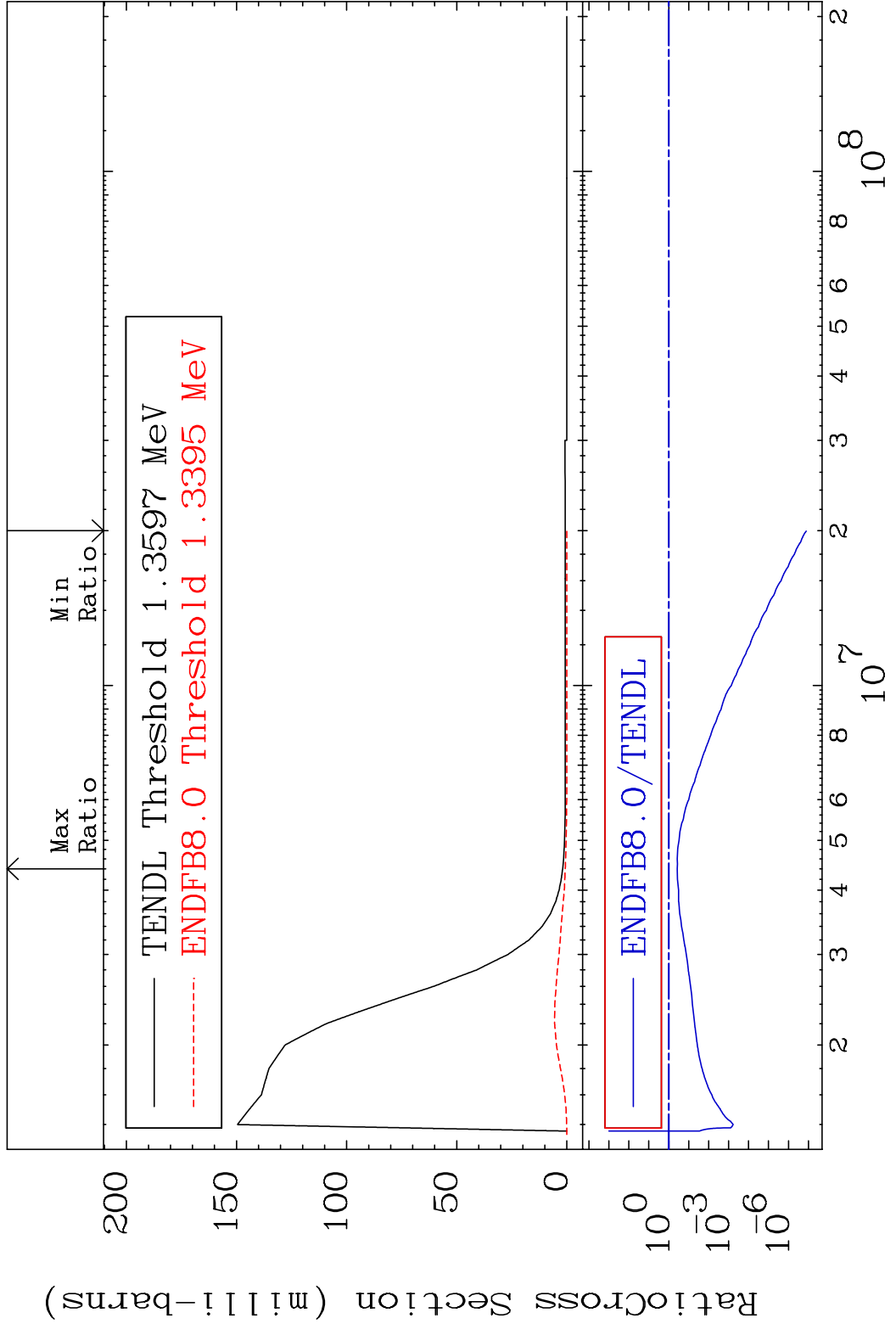
MAT 6449 MT= 67 (n, n') Level 64-Gd-160
 Cross Section -65.95 To 2053. %



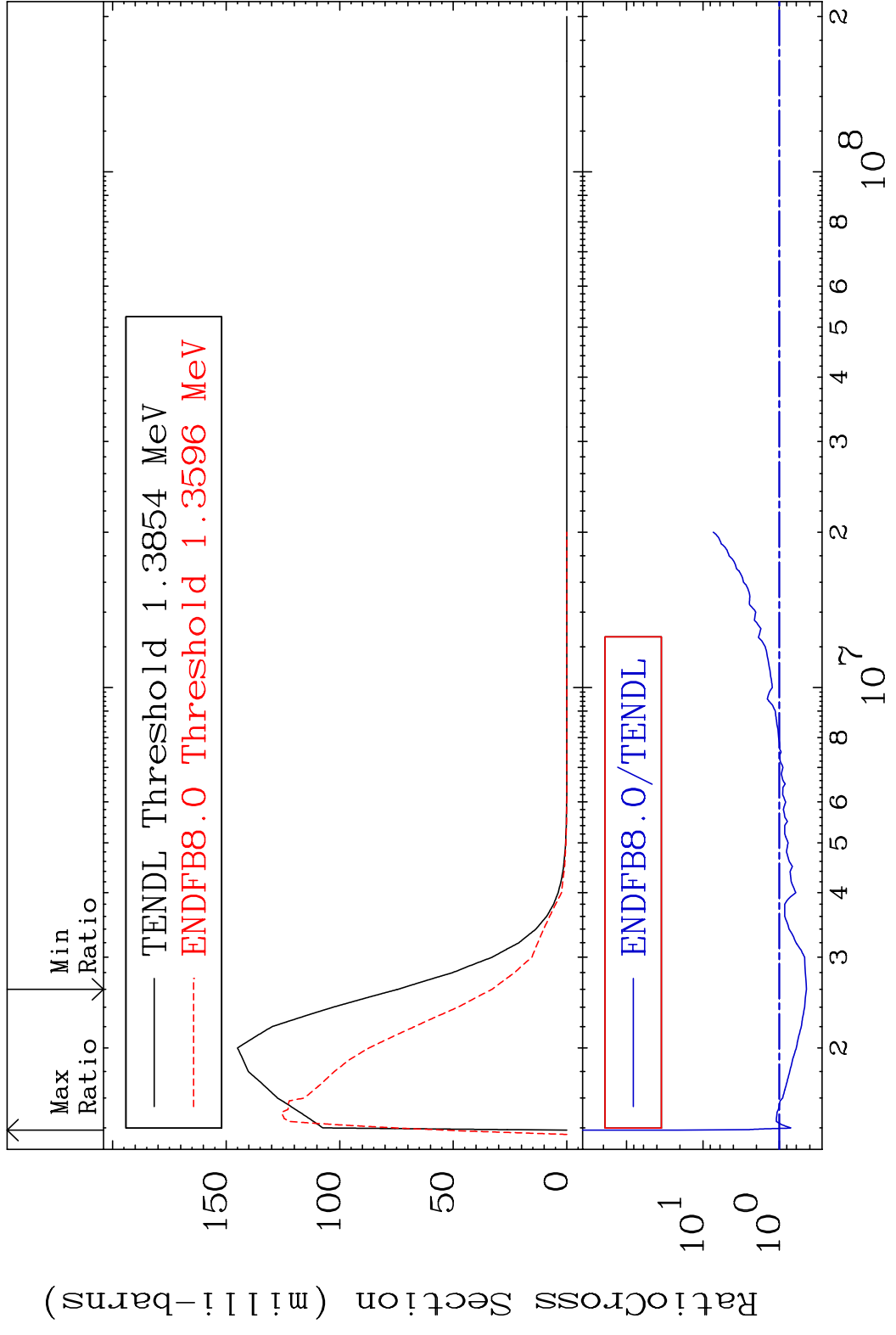
MAT 6449 MT= 68 (n, n') Level 64-Gd-160
 Cross Section -100.0 To 75.88 %



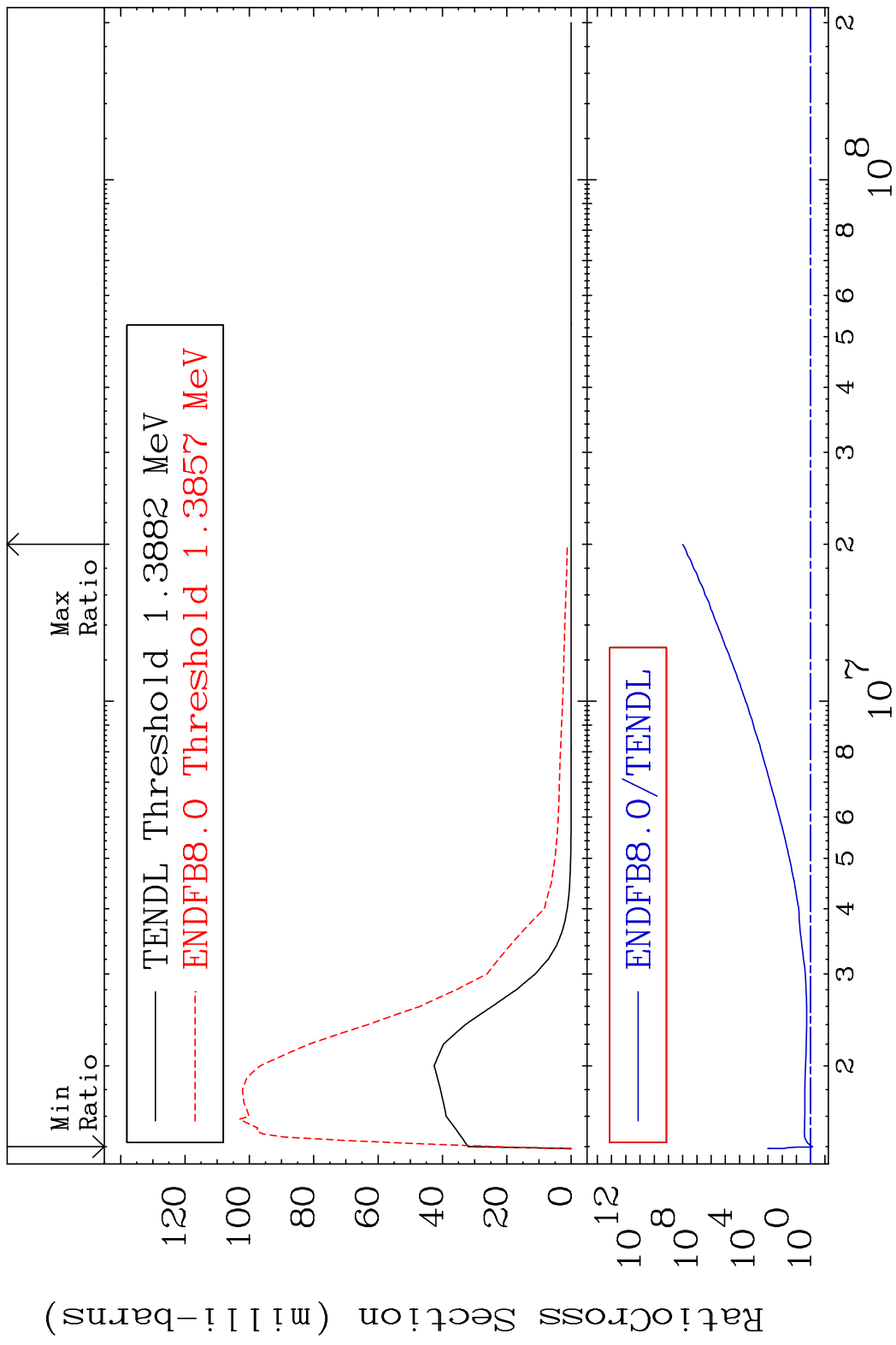
MAT 6449 MT= 69 (n, n') Level 64-Gd-160
 Cross Section -100.0 To -62.20%



MAT 6449 MT= 70 (n,n') Level 64-Gd-160
 Cross Section -55.69 To 2071. %



MAT 6449 MT= 71 (n, n') Level 64-Gd-160
 Cross Section -26.47 To 9999. %

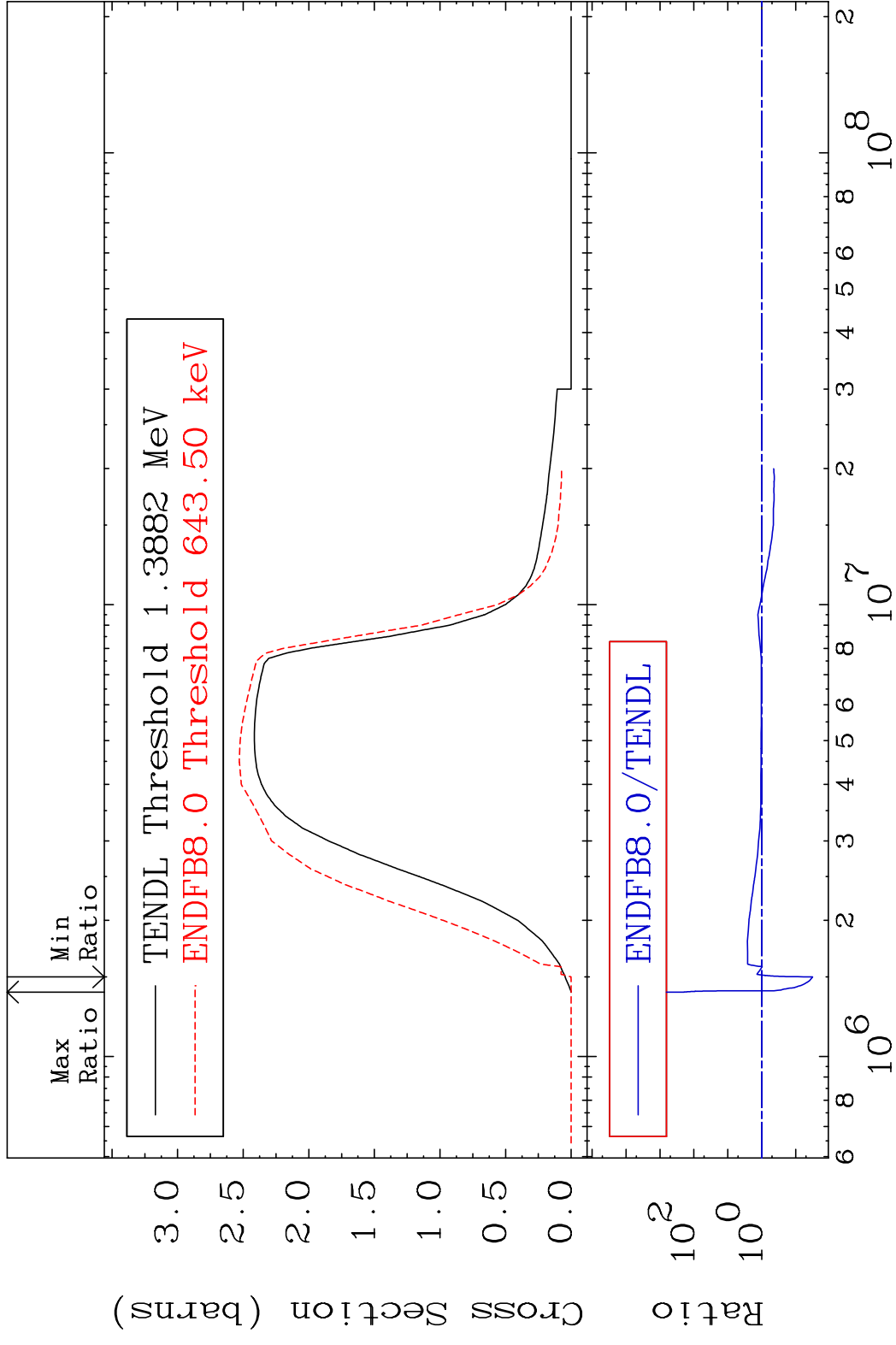


MAT 6449

(n,n') Continuum

64-Gd-160

Cross Section -96.82 To 9999. %

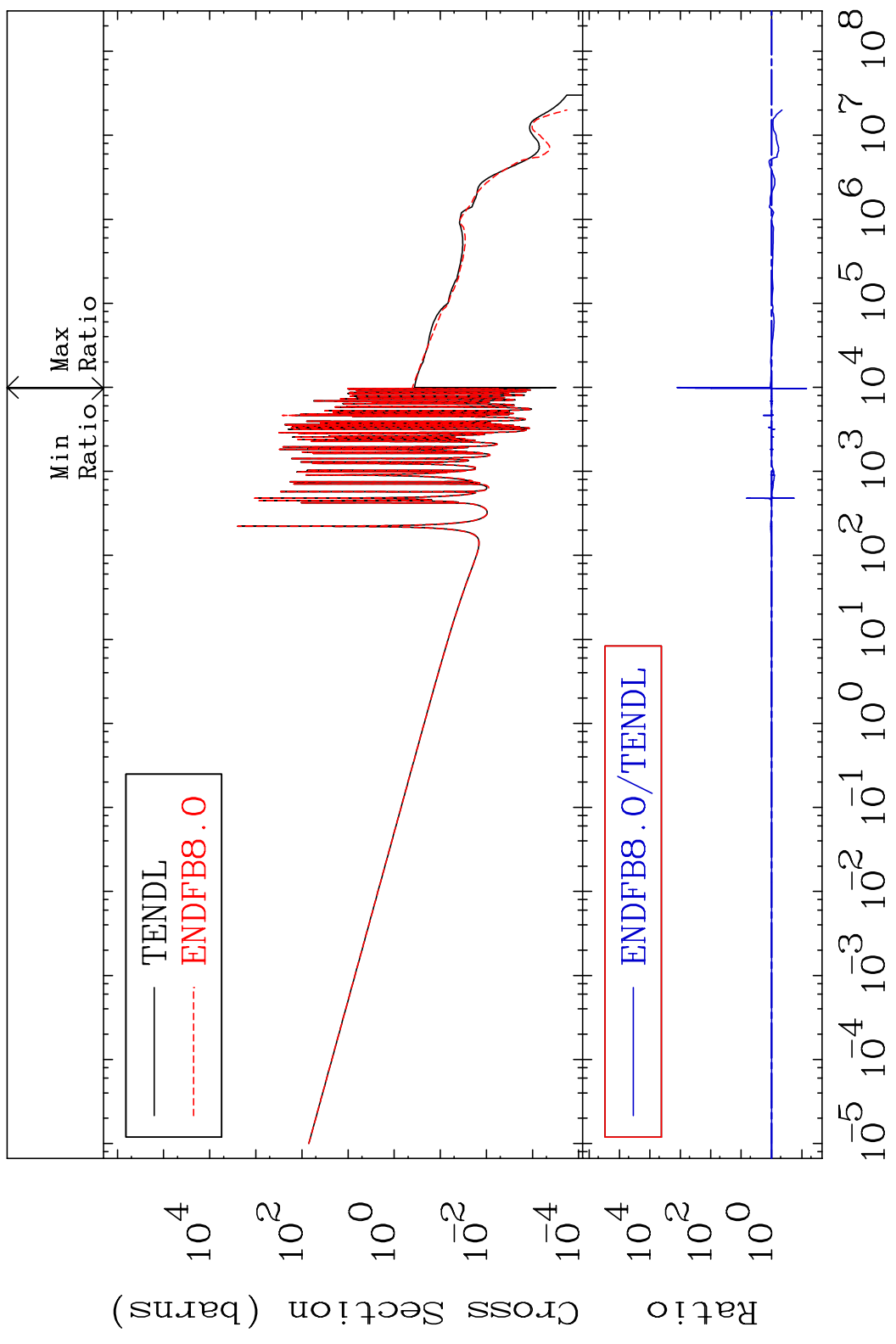


MAT 6449

(n, γ)

64-Gd-160

Cross Section -92.88 To 9999. %

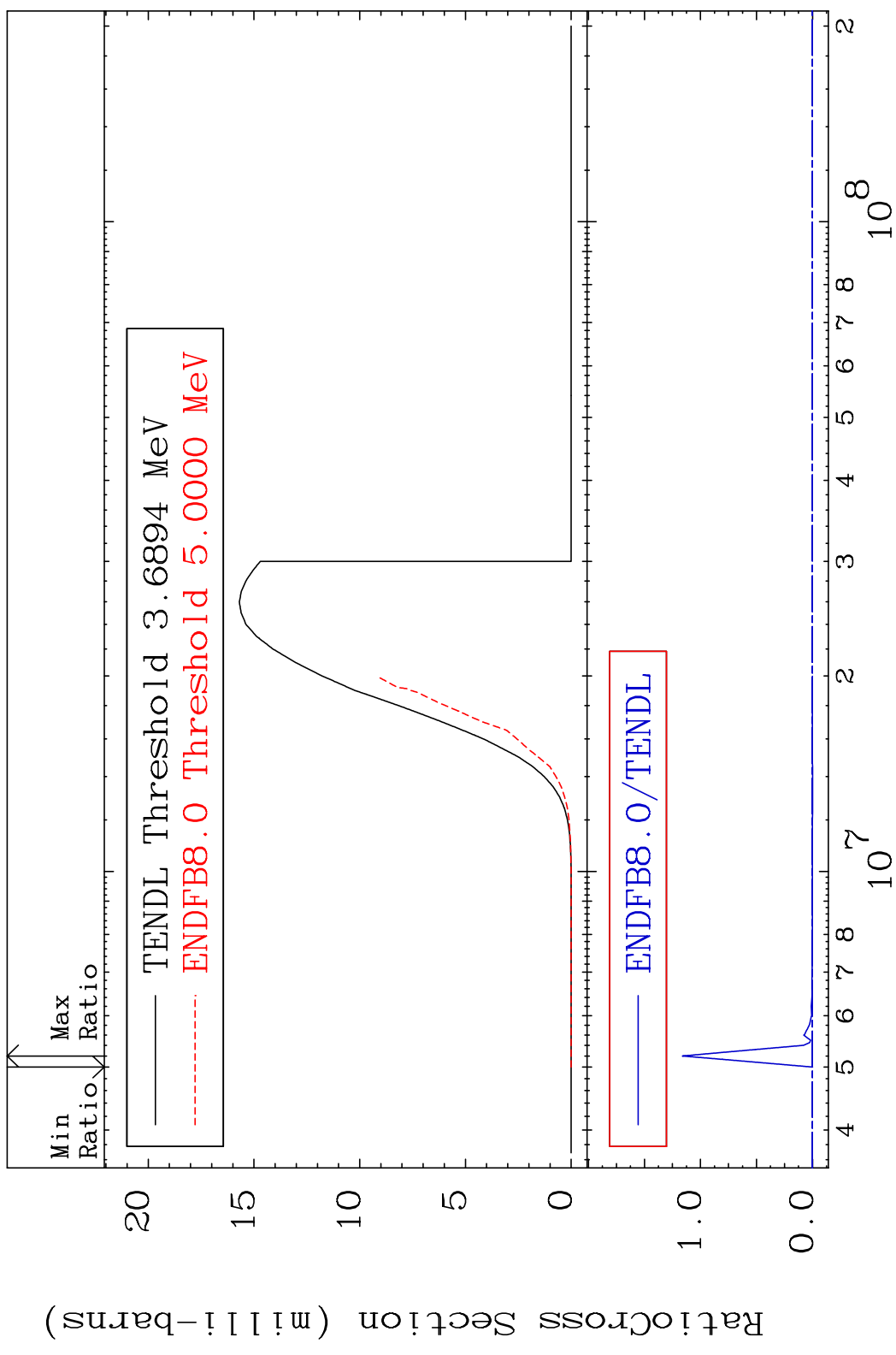


MAT 6449

(n,p)

64-Gd-160

Cross Section -100.0 To 9999. %

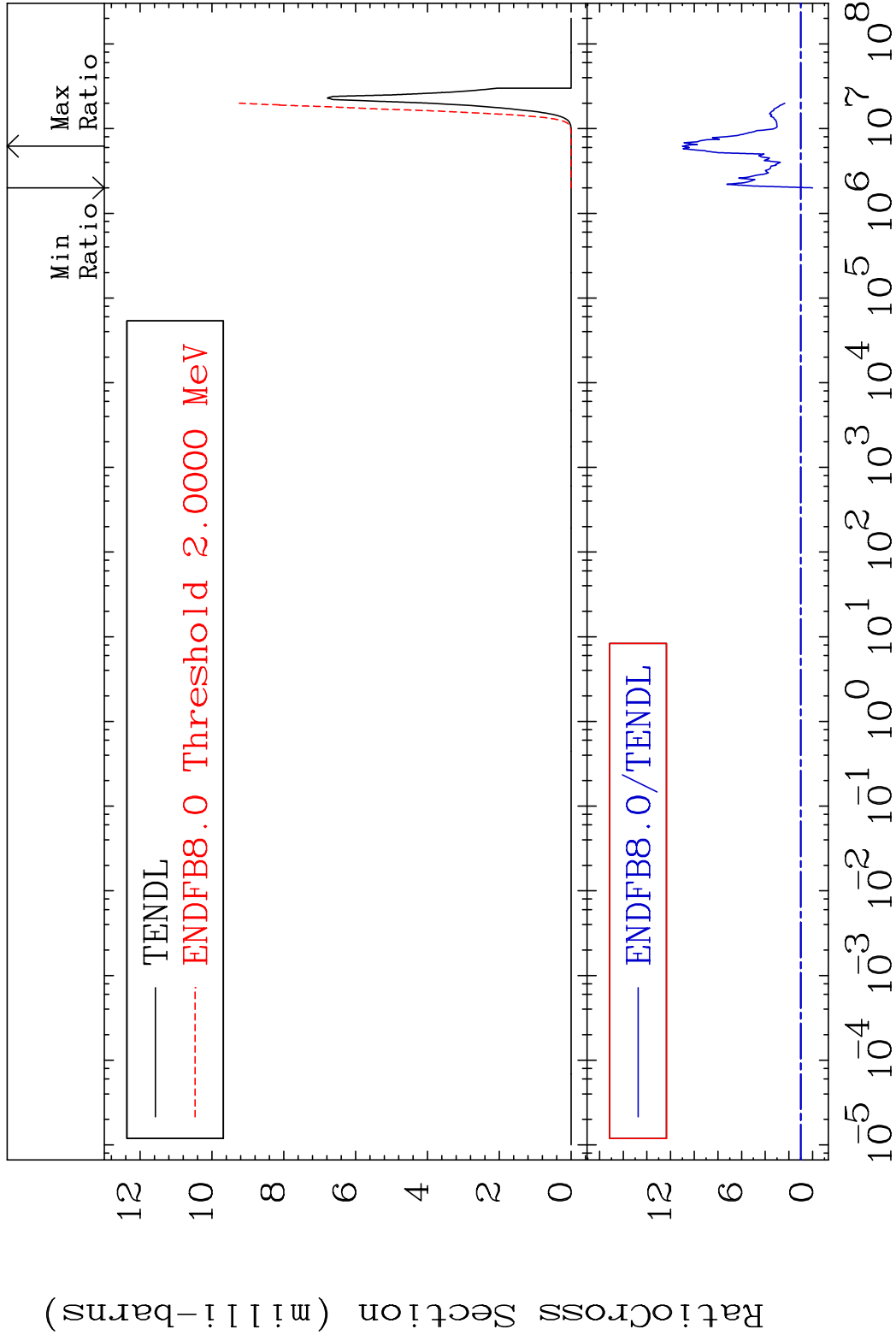


MAT 6449

(n, α)

64-Gd-160

Cross Section -100.0 To 1001. %



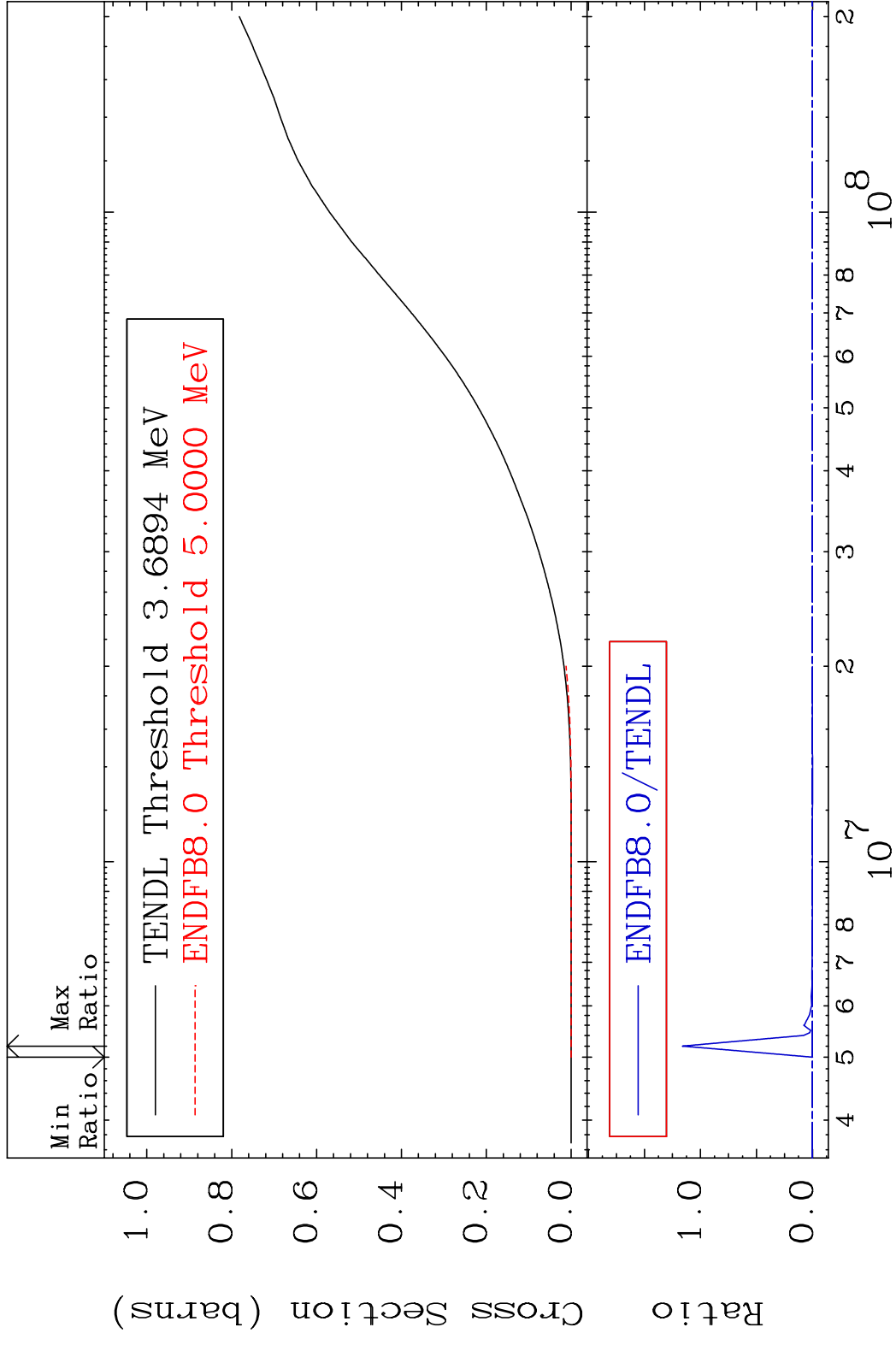
34

Incident Energy (eV)

64-Gd-160

MAT 6449

Hydrogen Production 64-Gd-160
Cross Section -100.0 To 9999. %

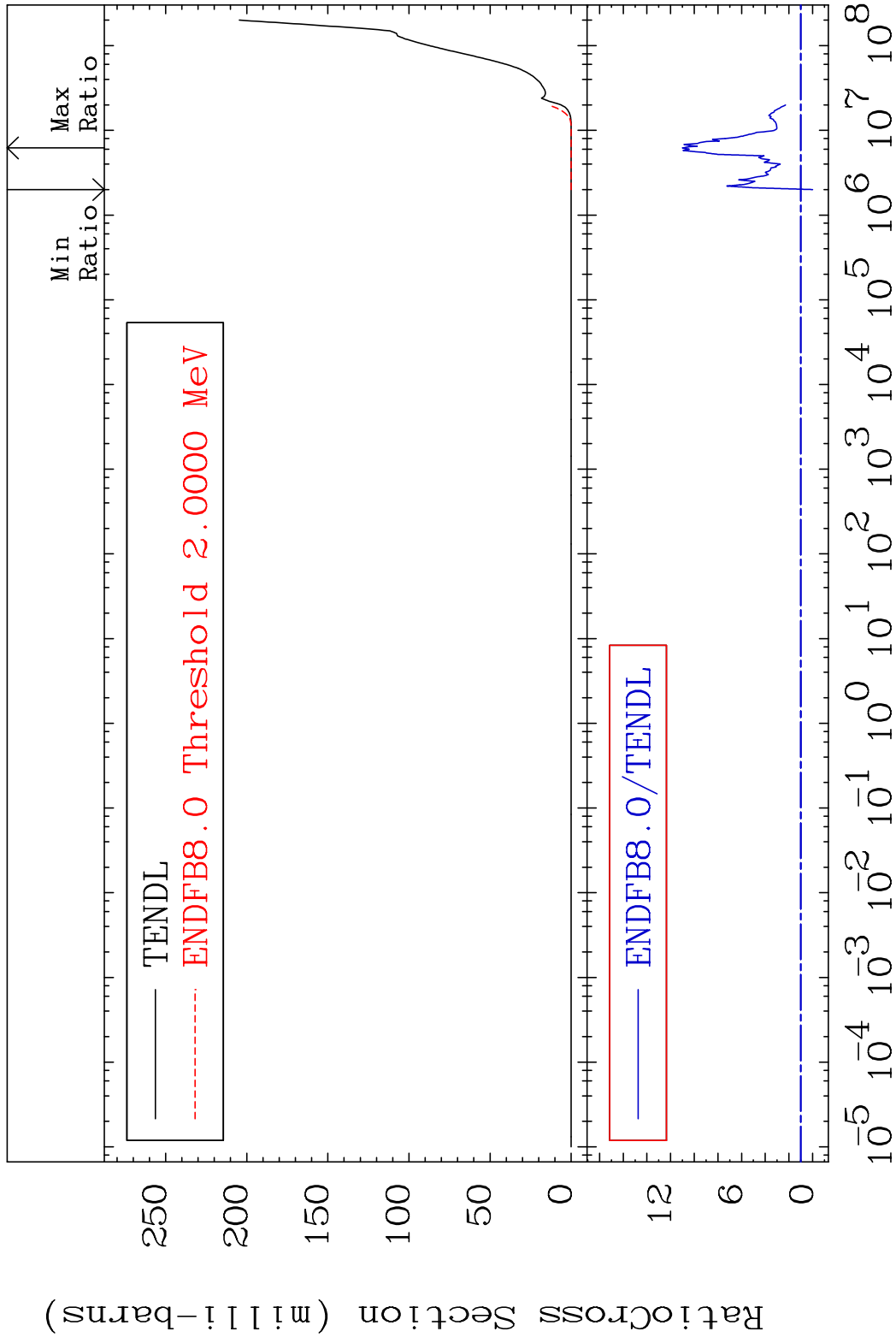


MAT 6449

He-4 Production

64-Gd-160

Cross Section -100.0 To 1001. %

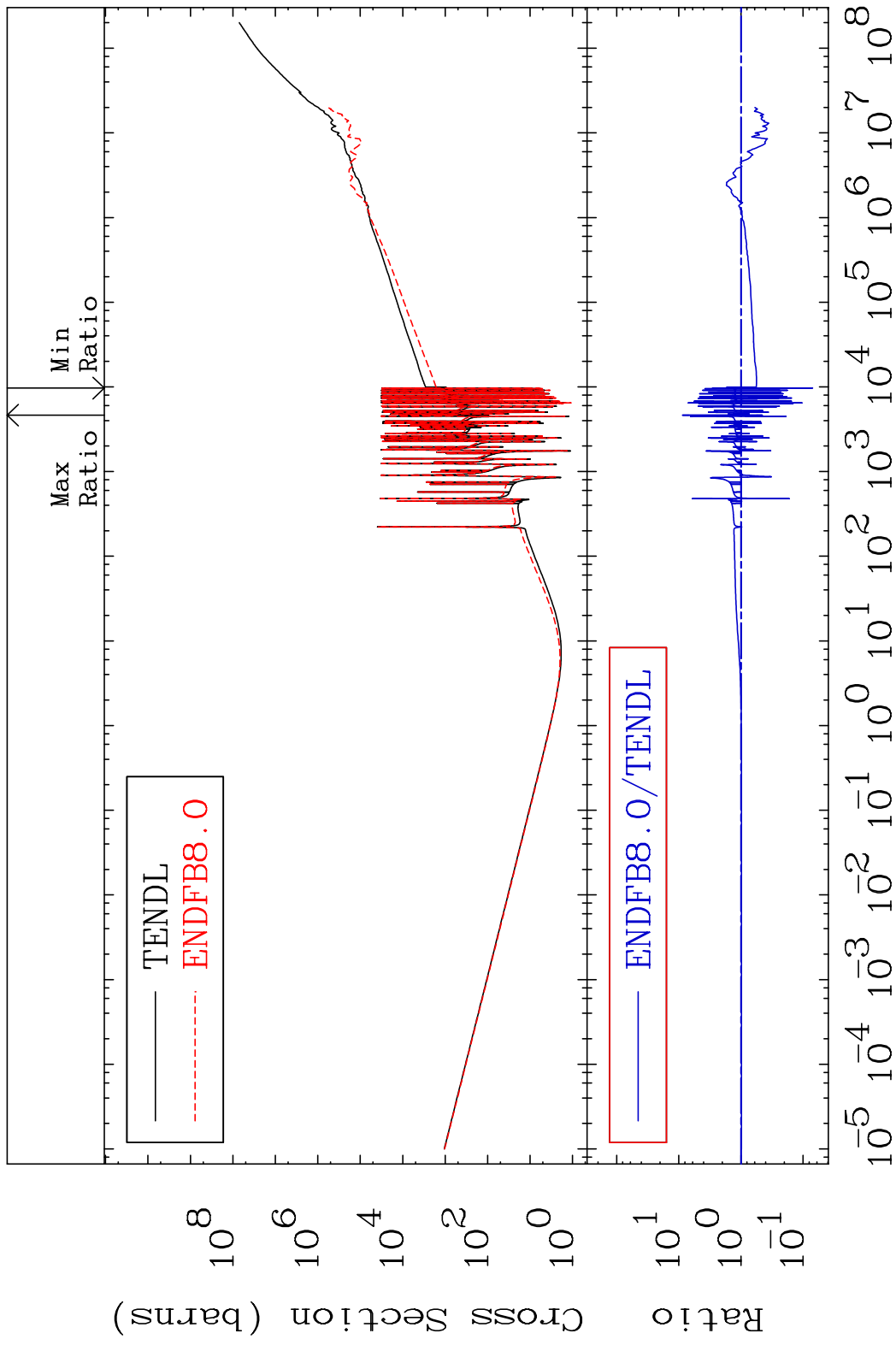


36

Incident Energy (eV)

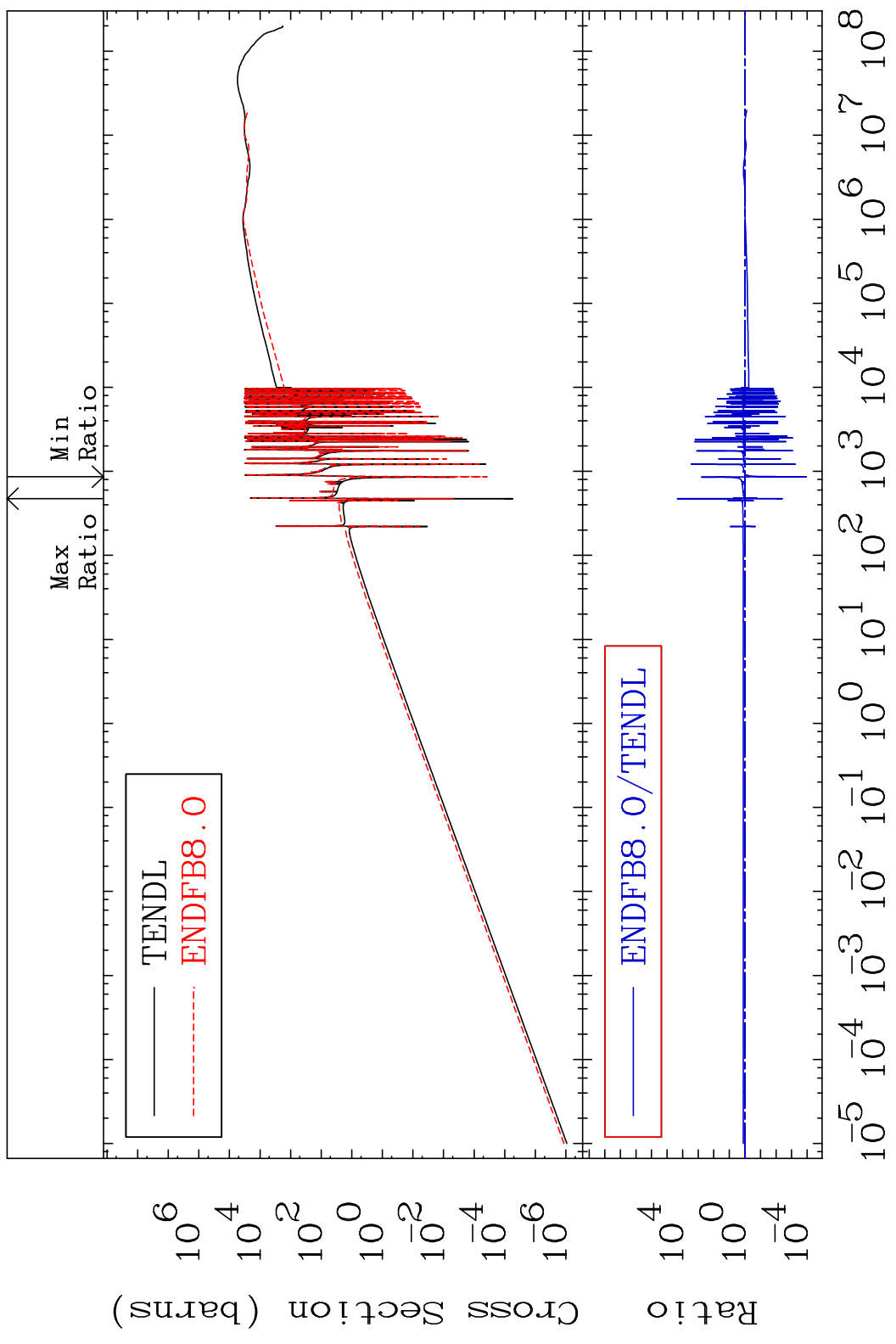
64-Gd-160

MAT 6449 Kerma total (eV-barns) 64-Gd-160
 Cross Section -92.96 To 778.1 %

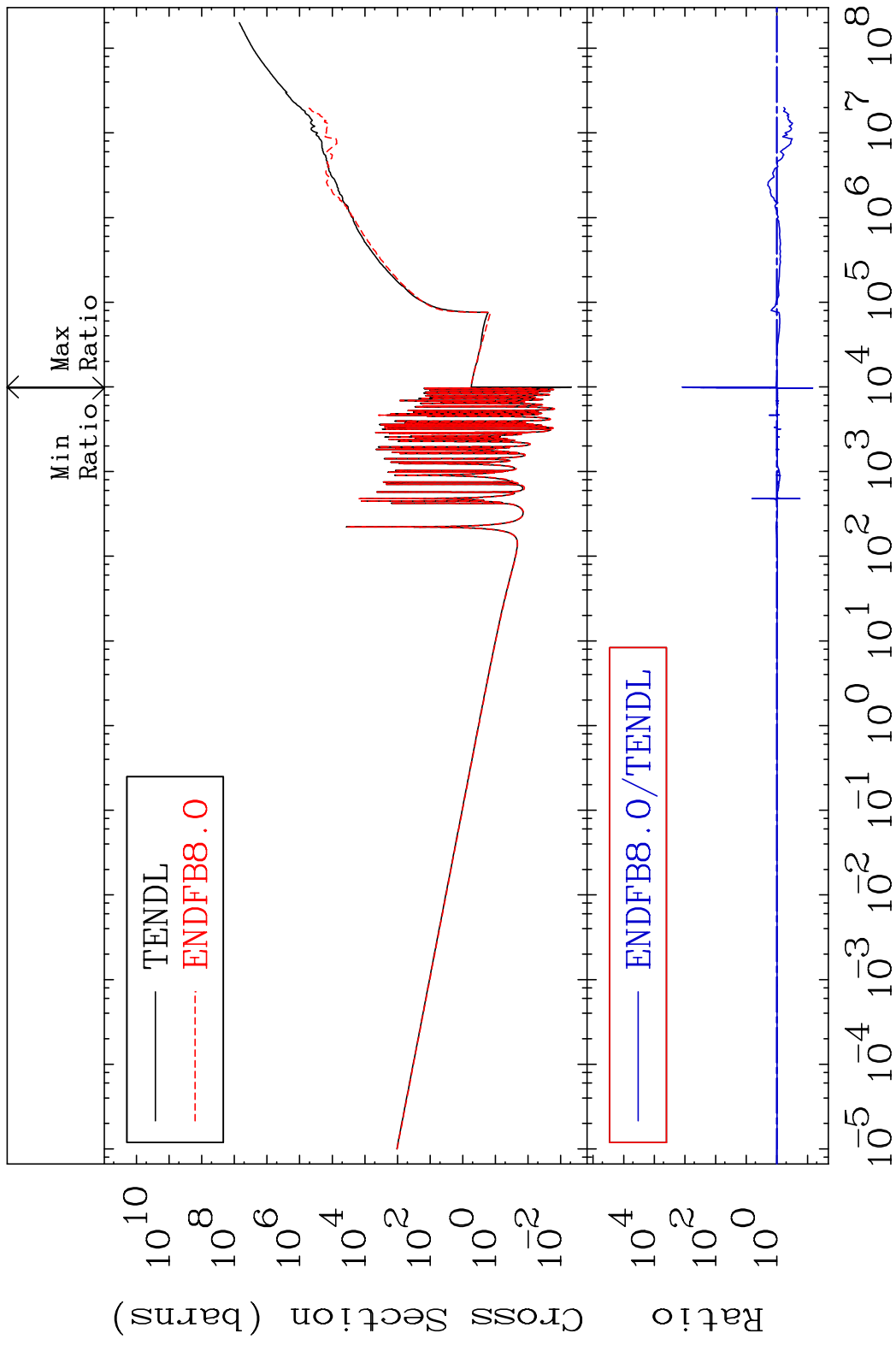


MAT 6449

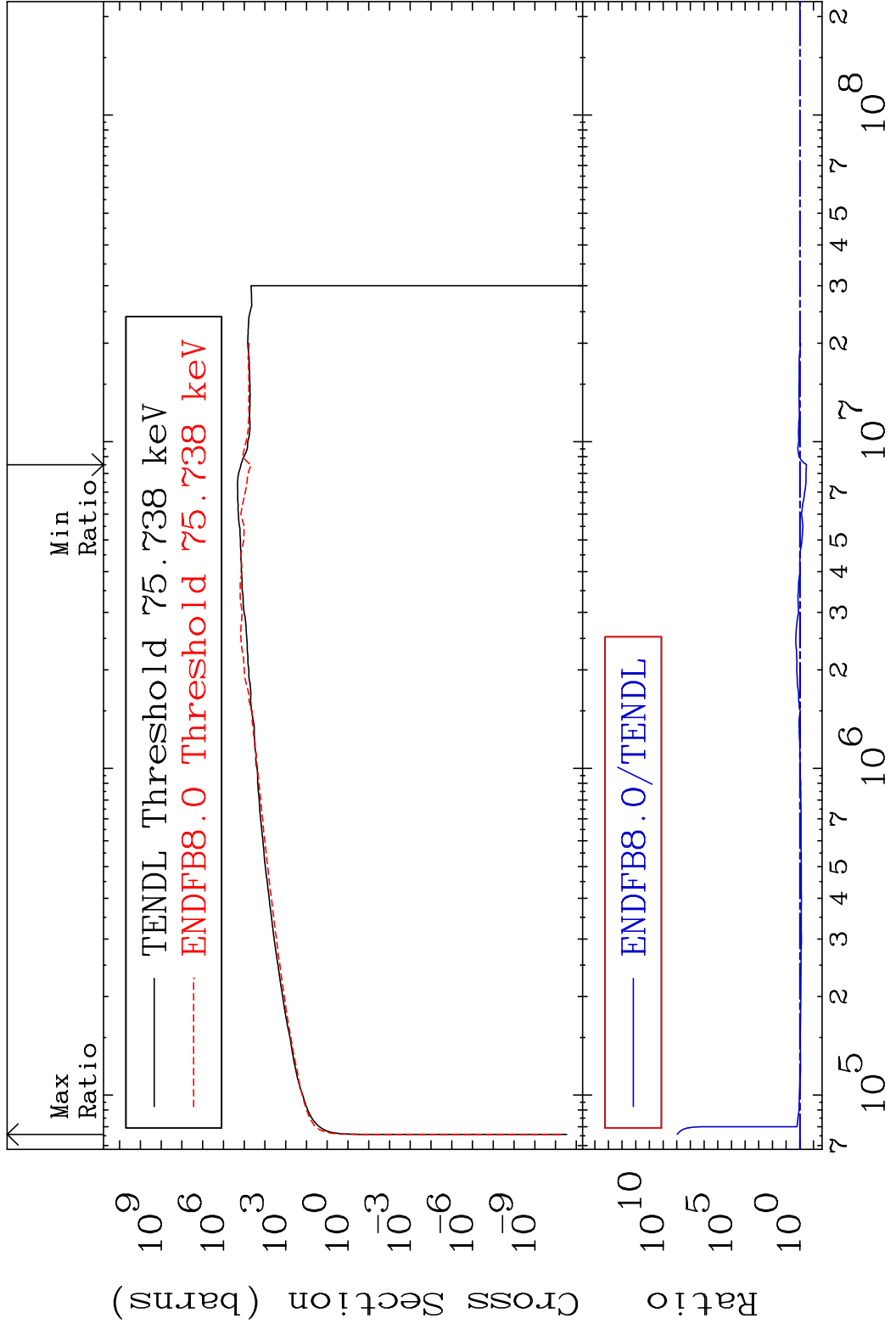
Kerma elastic Cross Section -99.99 To 9999. %
64-Gd-160



MAT 6449 Kerma non-elastic (all but mt2) 64-Gd-160
 Cross Section -93.16 To 9999. %

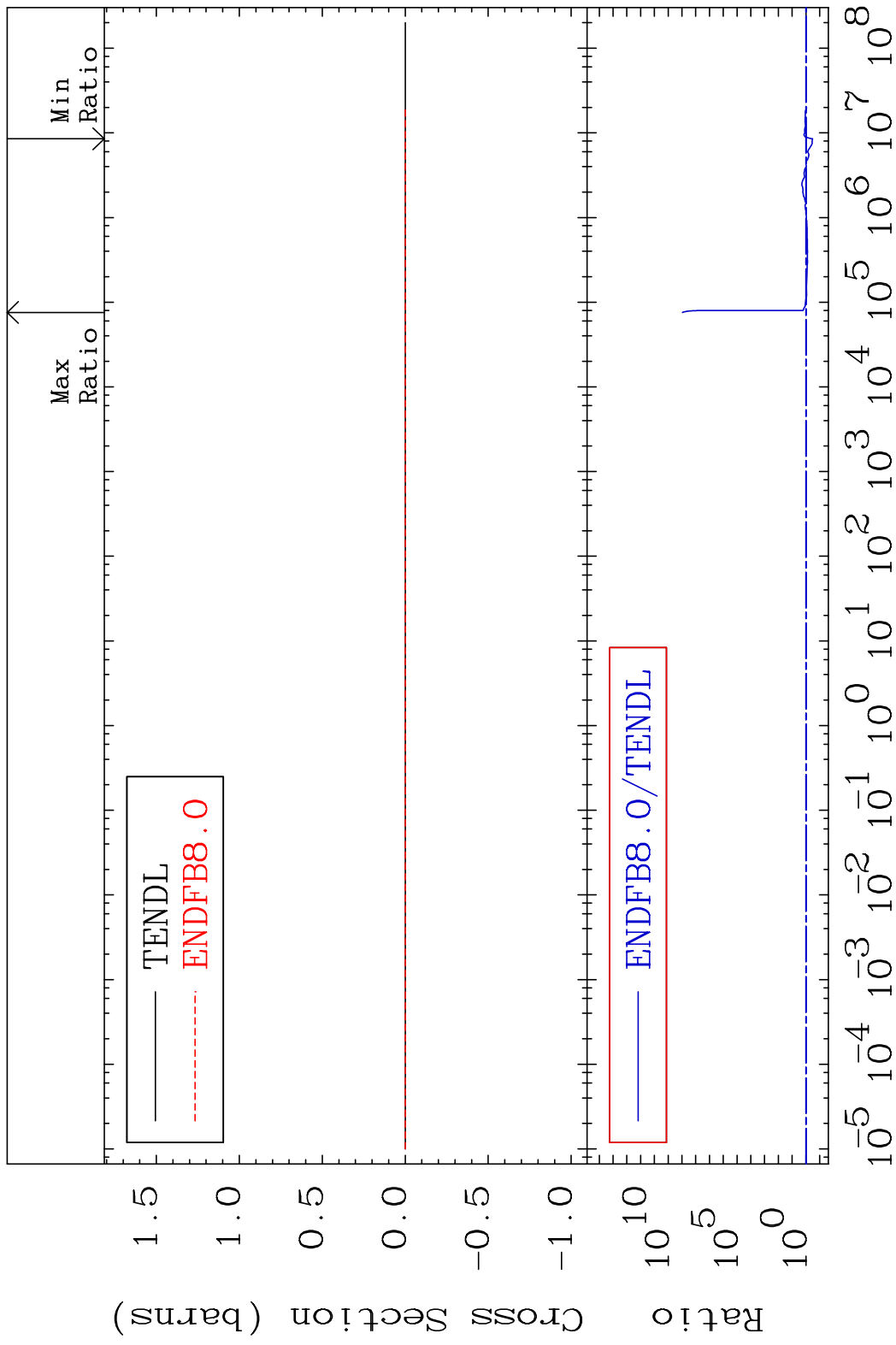


MAT 6449 Kerma inelastic (mt51-91) 64-Gd-160
 Cross Section -67.19 To 9999. %



40 Incident Energy (eV) 64-Gd-160

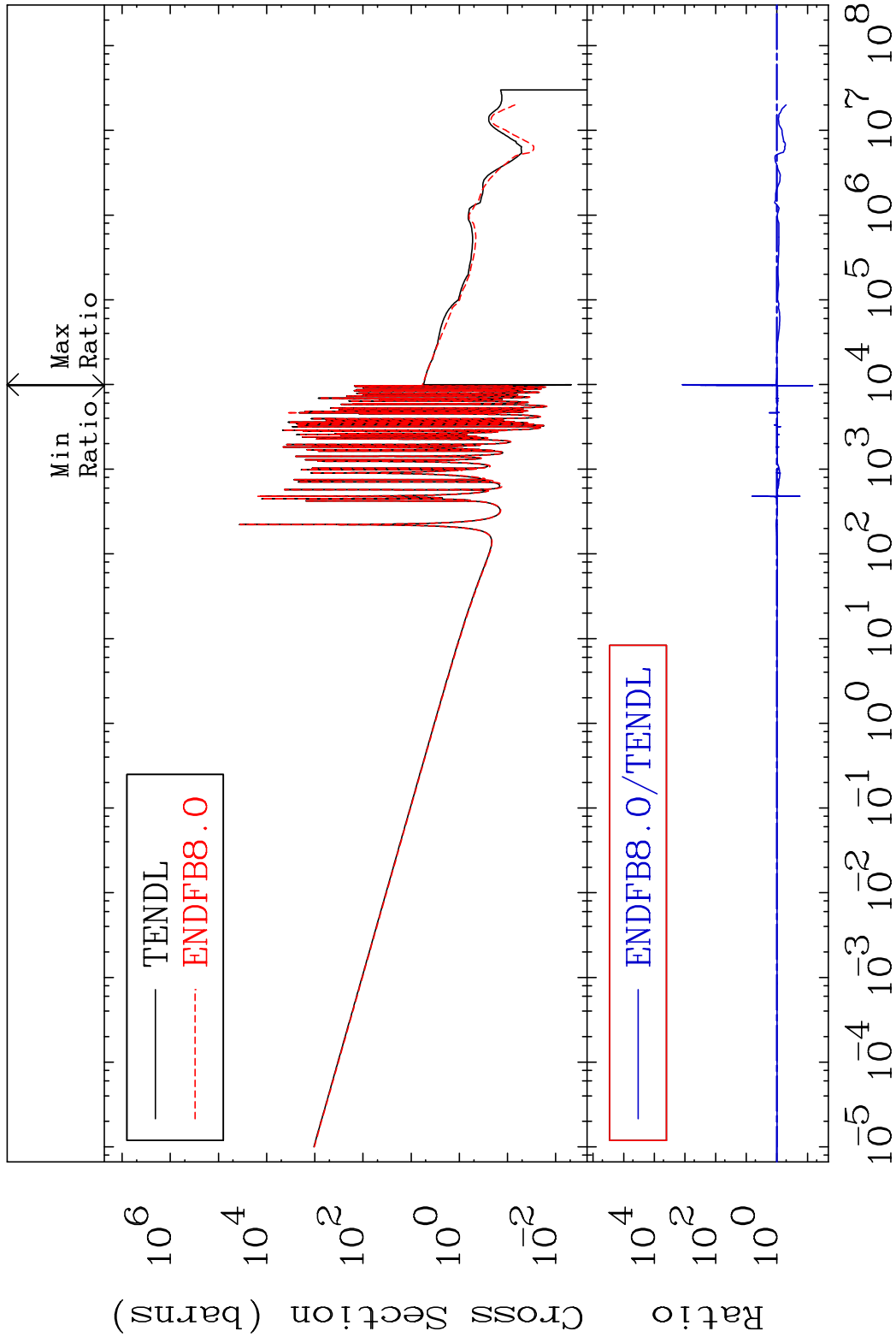
MAT 6449 Kerma fission (mt18 or mt19-20-21-38) 64-Gd-160
 Cross Section -67.19 To 9999. %



MAT 6449

Kerma capture (mt102) 64-Gd-160

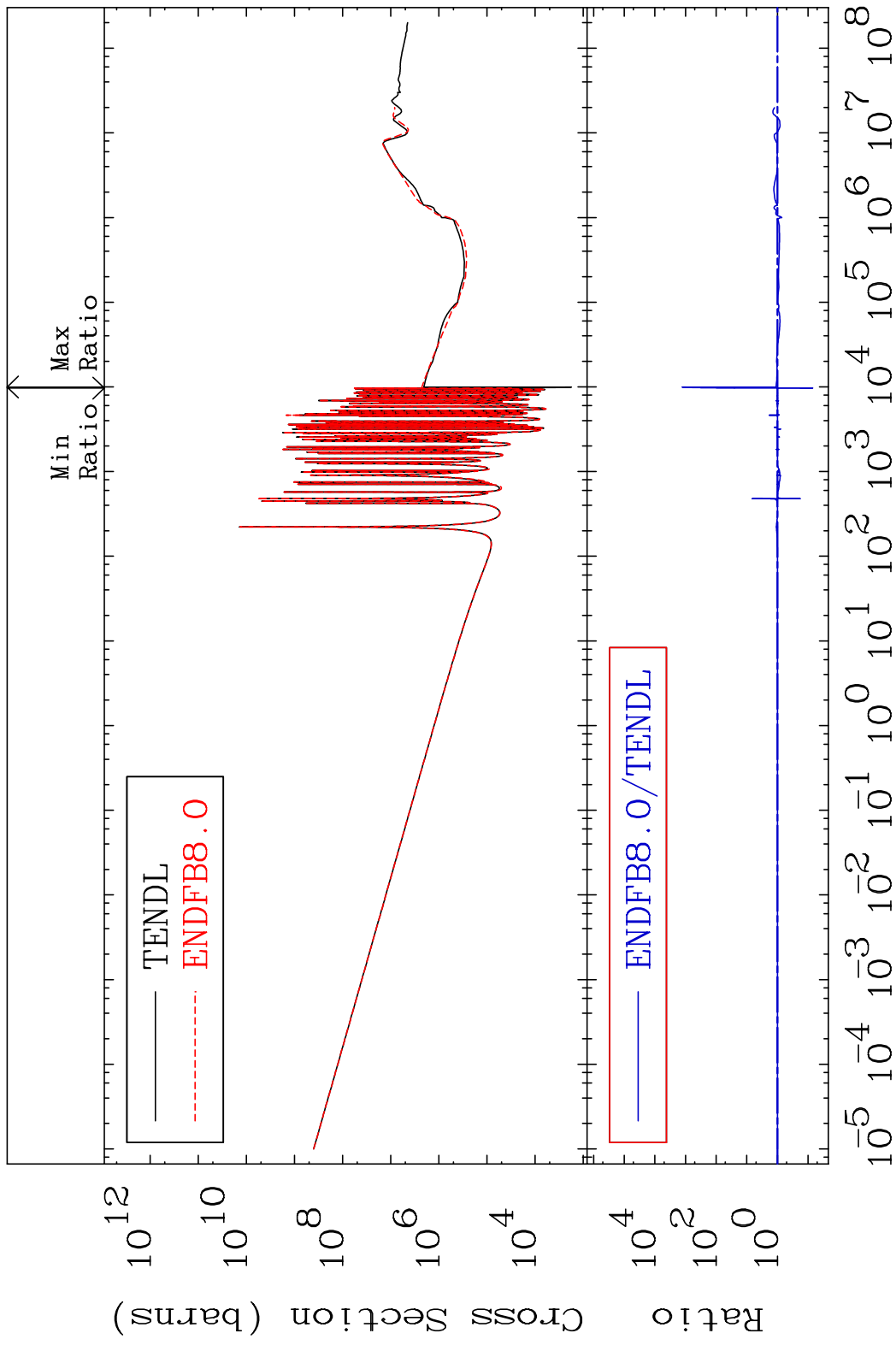
Cross Section -93.16 To 9999. %



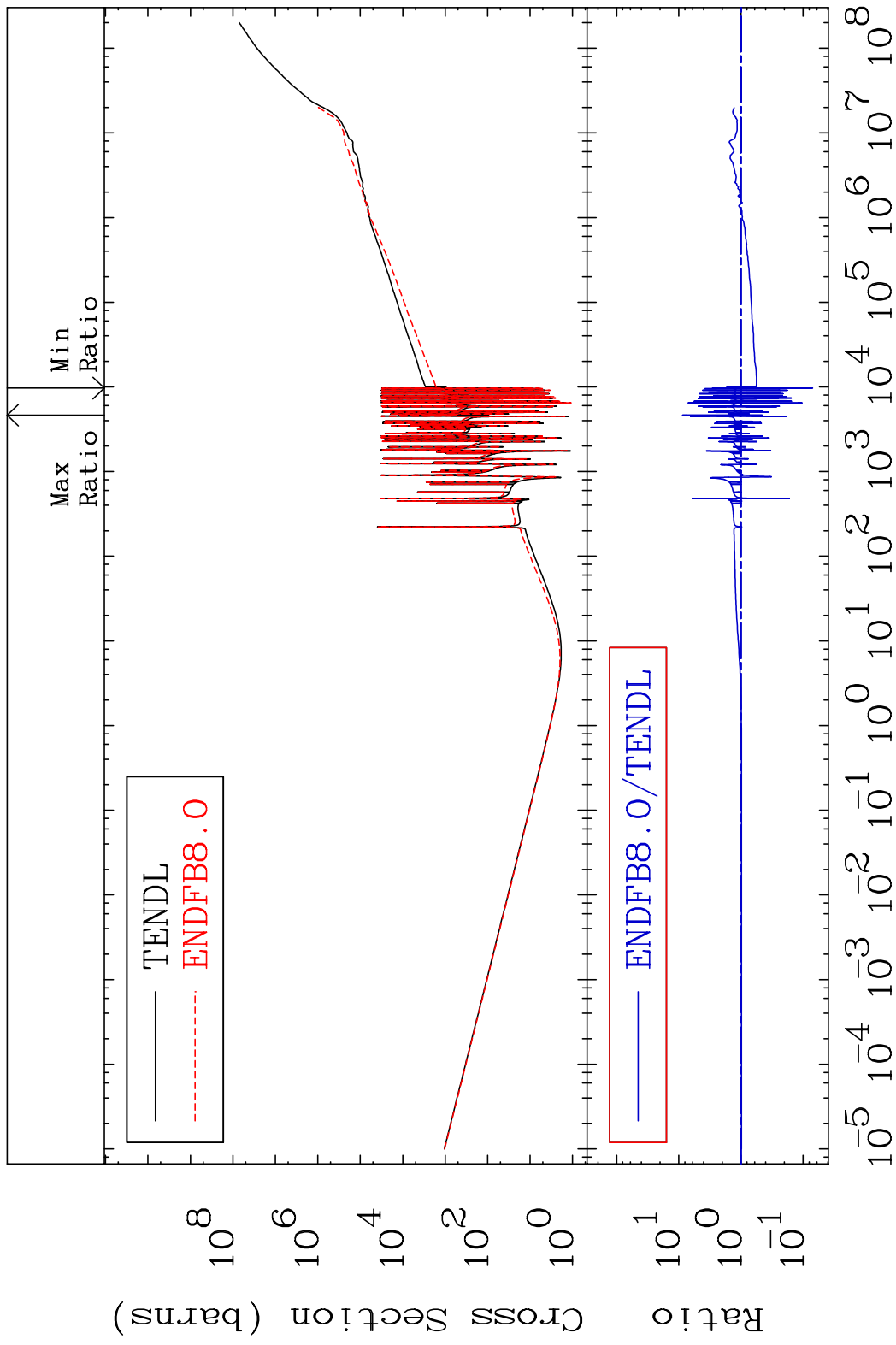
42

Incident Energy (eV) 64-Gd-160

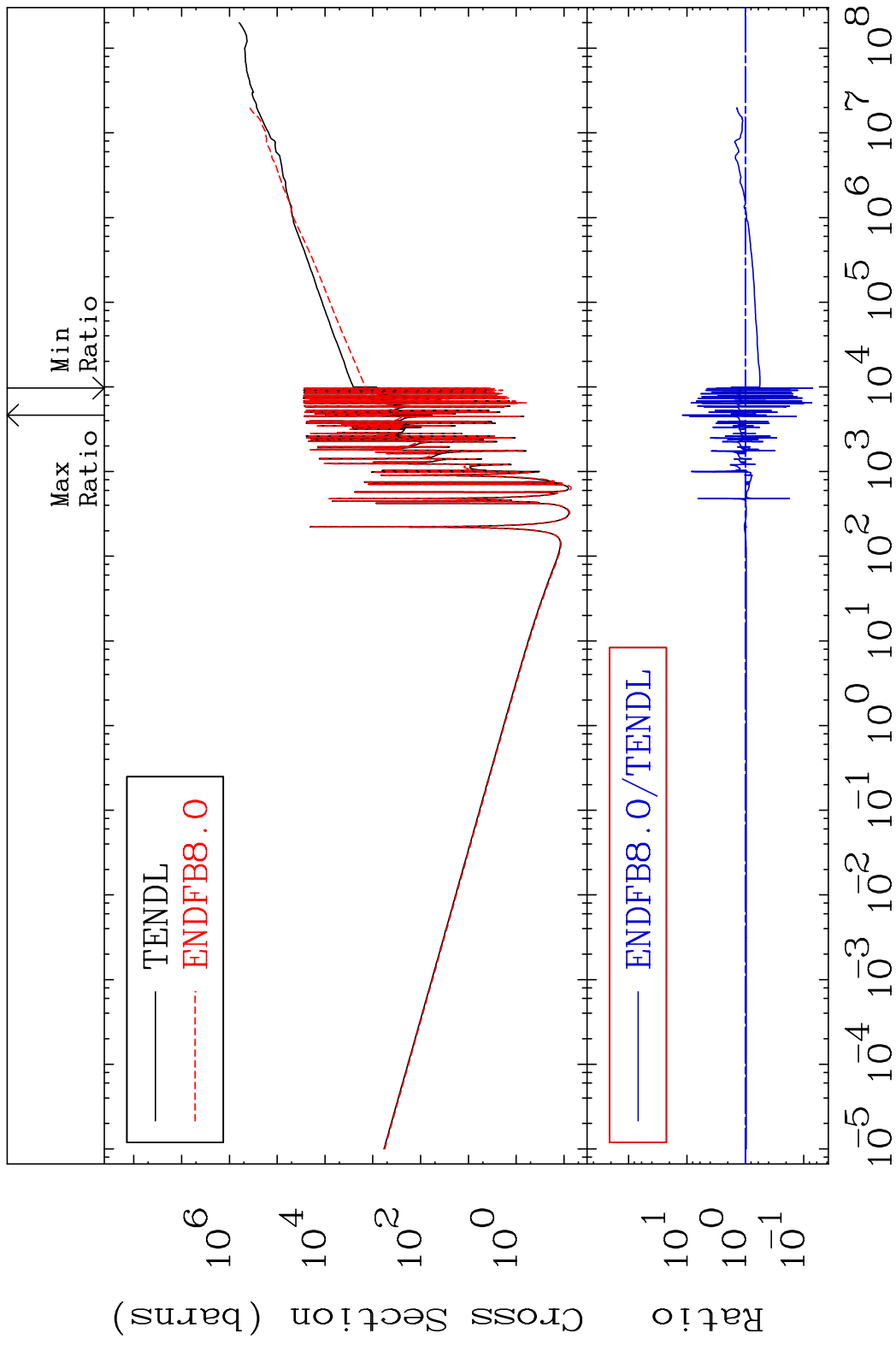
MAT 6449 Total photon (eV-barns) 64-Gd-160
Cross Section -92.88 To 9999. %



MAT 6449 Total kinematic kerma (high limit) 64-Gd-160
 Cross Section -92.96 To 778.1 %



MAT 6449 Dpa total (eV-barns) 64-Gd-160
 Cross Section -92.96 To 1100. %

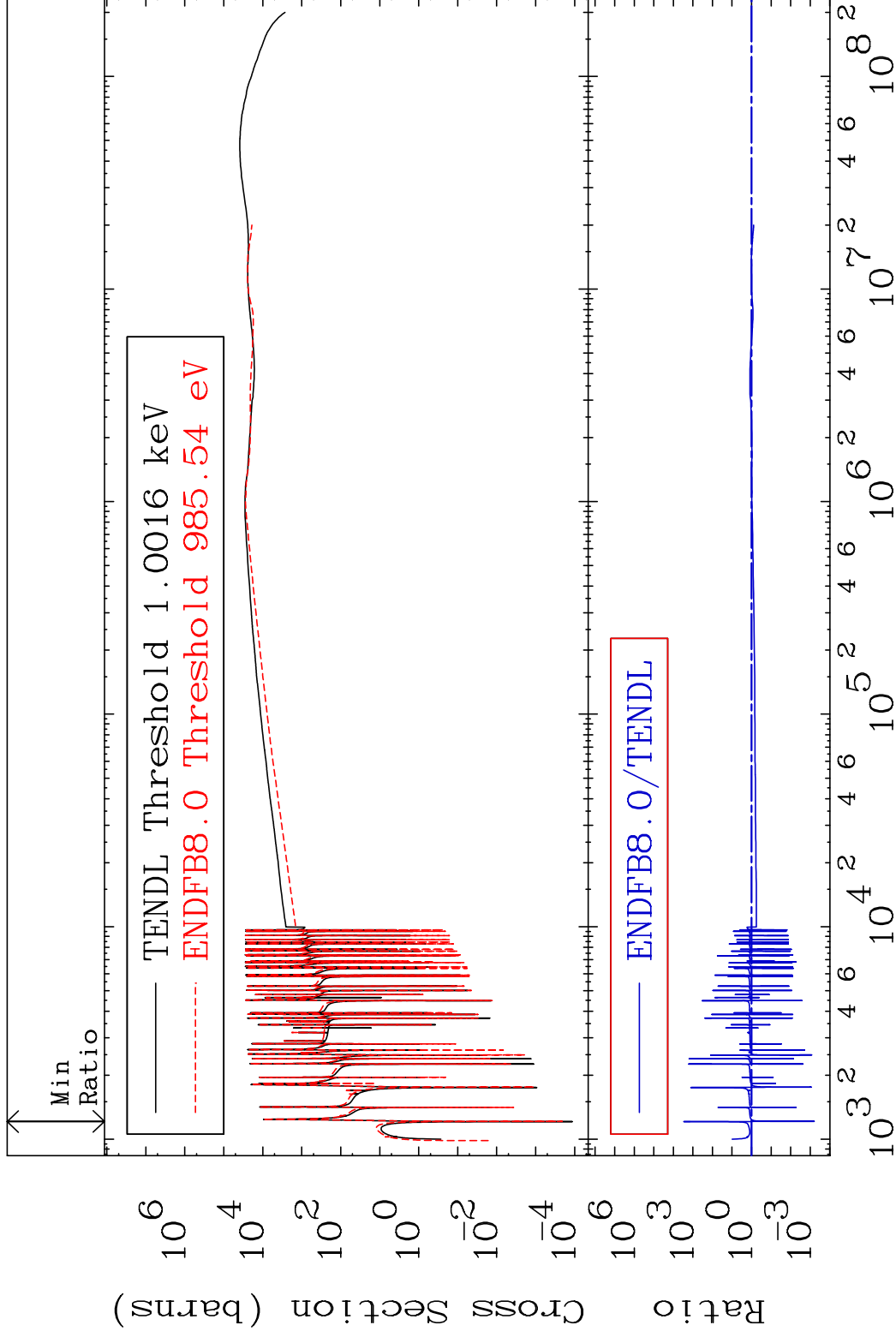


MAT 6449

Dpa elastic (mt2)

64-Gd-160

Cross Section -99.94 To 9999. %



46

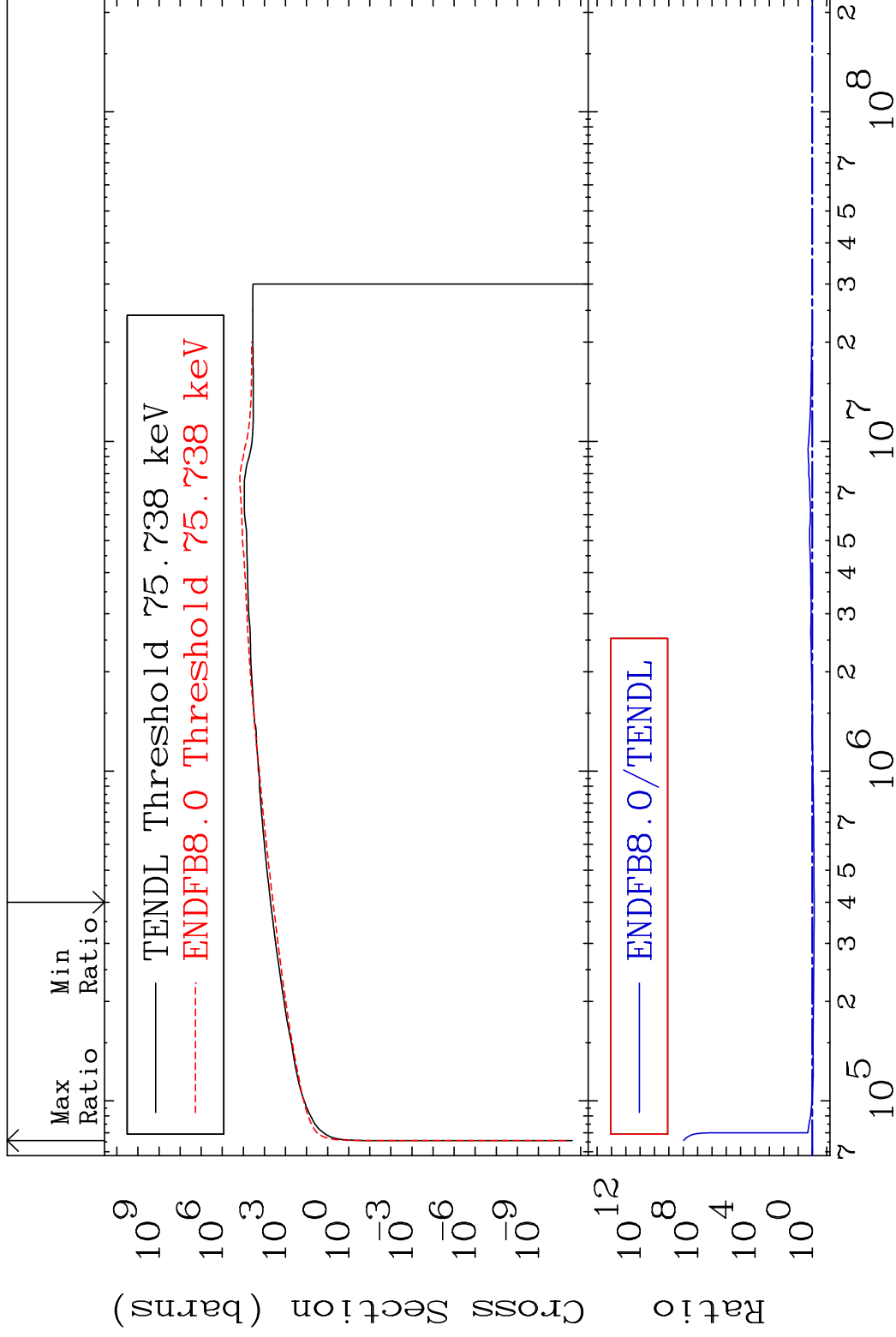
Incident Energy (eV)

64-Gd-160

MAT 6449

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

Cross Section -23.85 To 9999. %



47

Incident Energy (eV)

64-Gd-160

MAT 6449 Dpa disappearance (mt102 -120) 64-Gd-160
 Cross Section -93.29 To 9999. %

