

Program Complot
(Version 2021-1)

by

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(Present Contact Information)

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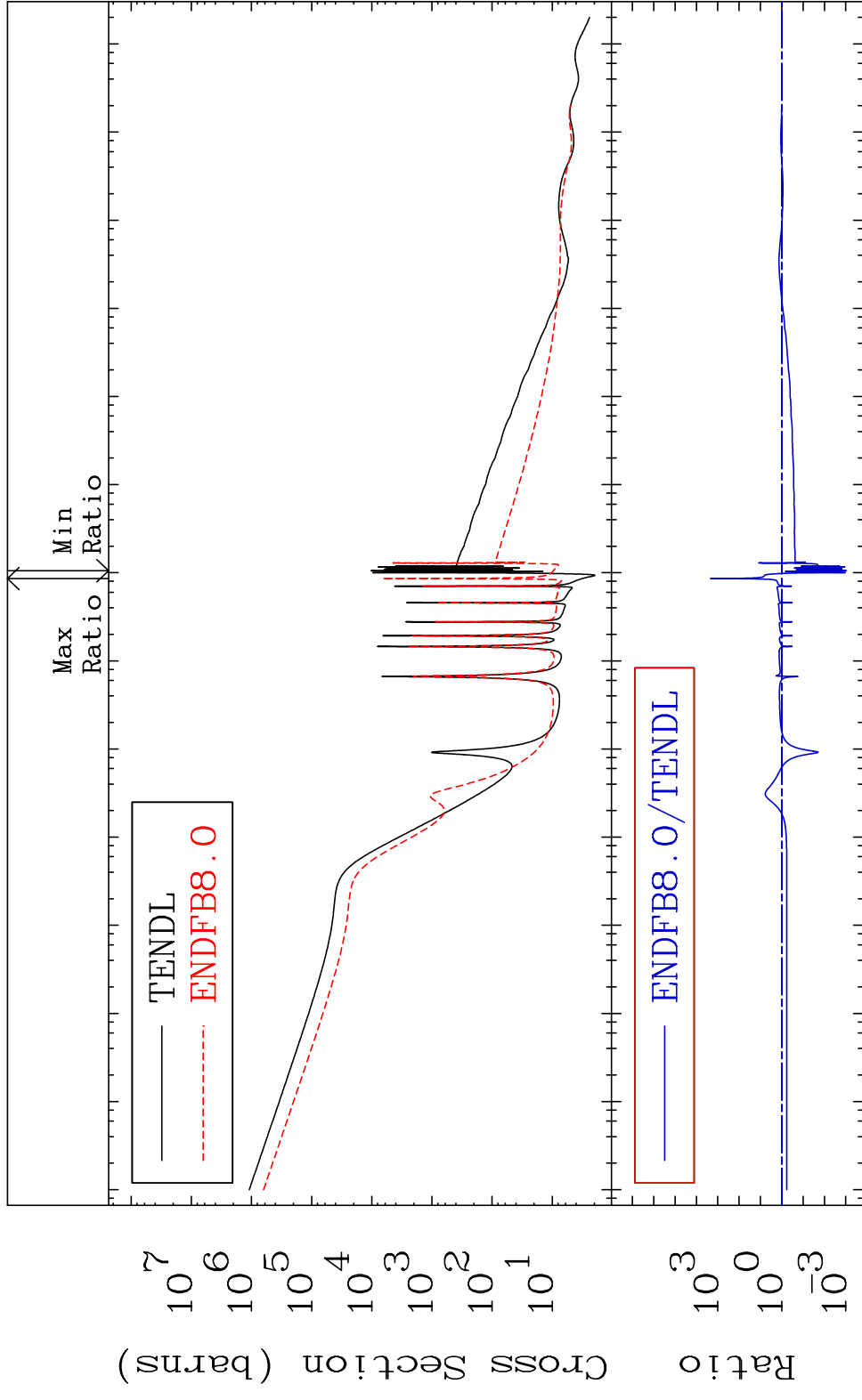
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6428

Total Cross Section -99.91 To 9999. %

64-Gd-153



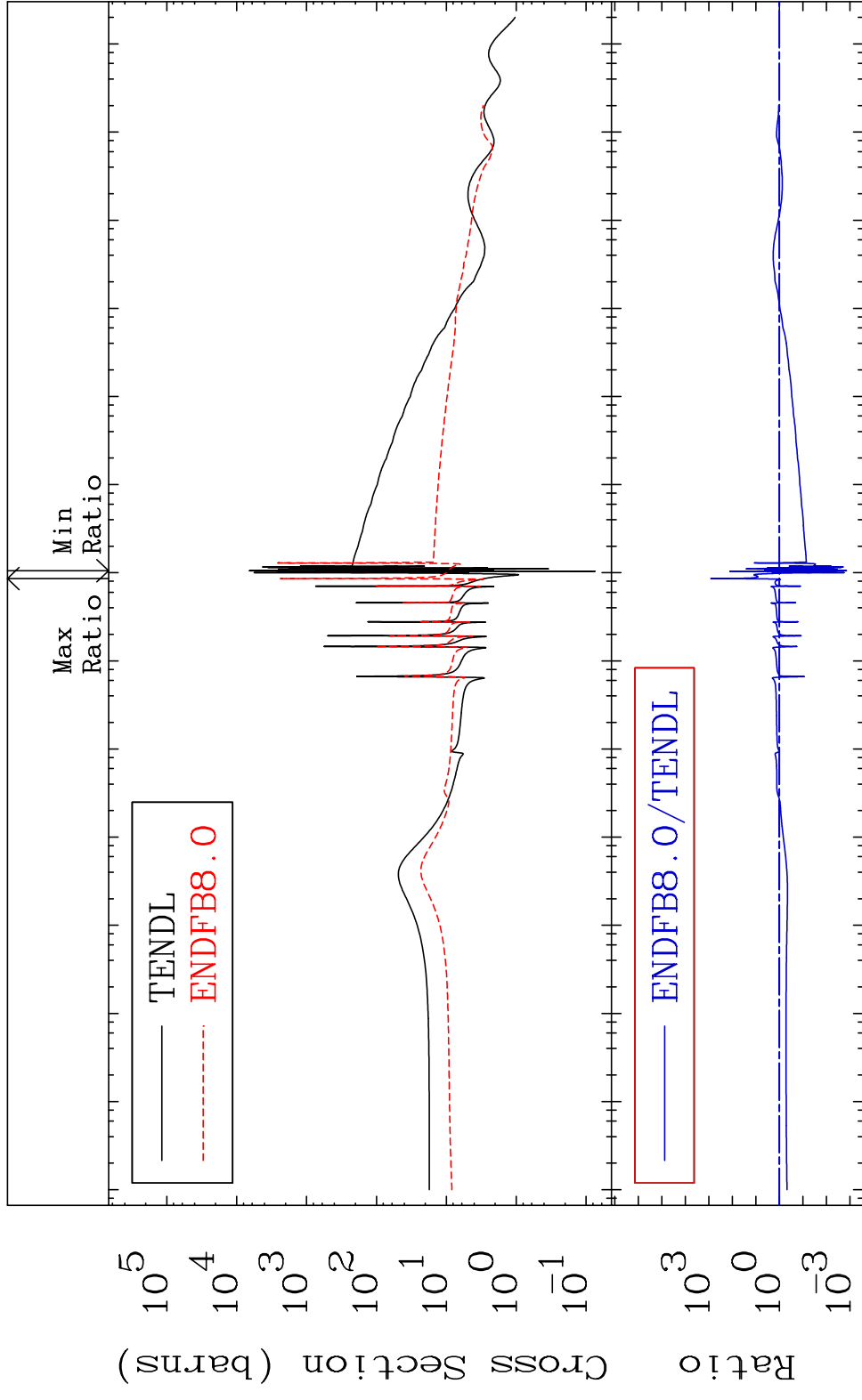
1 Incident Energy (eV) 64-Gd-153

MAT 6428

Elastic

64-Gd-153

Cross Section -99.86 To 9999. %



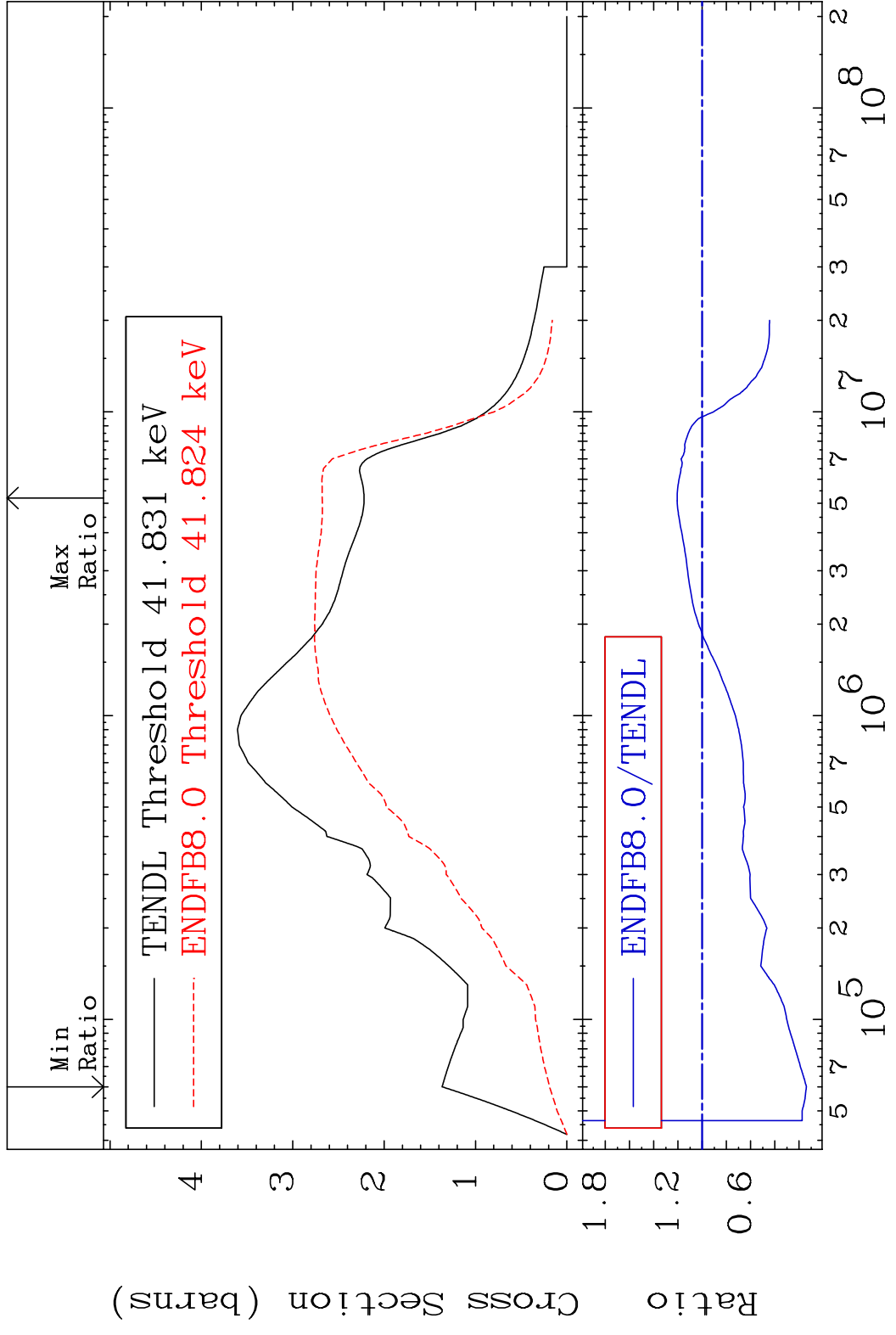
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

2

Incident Energy (eV)

64-Gd-153

MAT 6428 Inelastic 64-Gd-153
 Cross Section -86.07 To 20.66 %

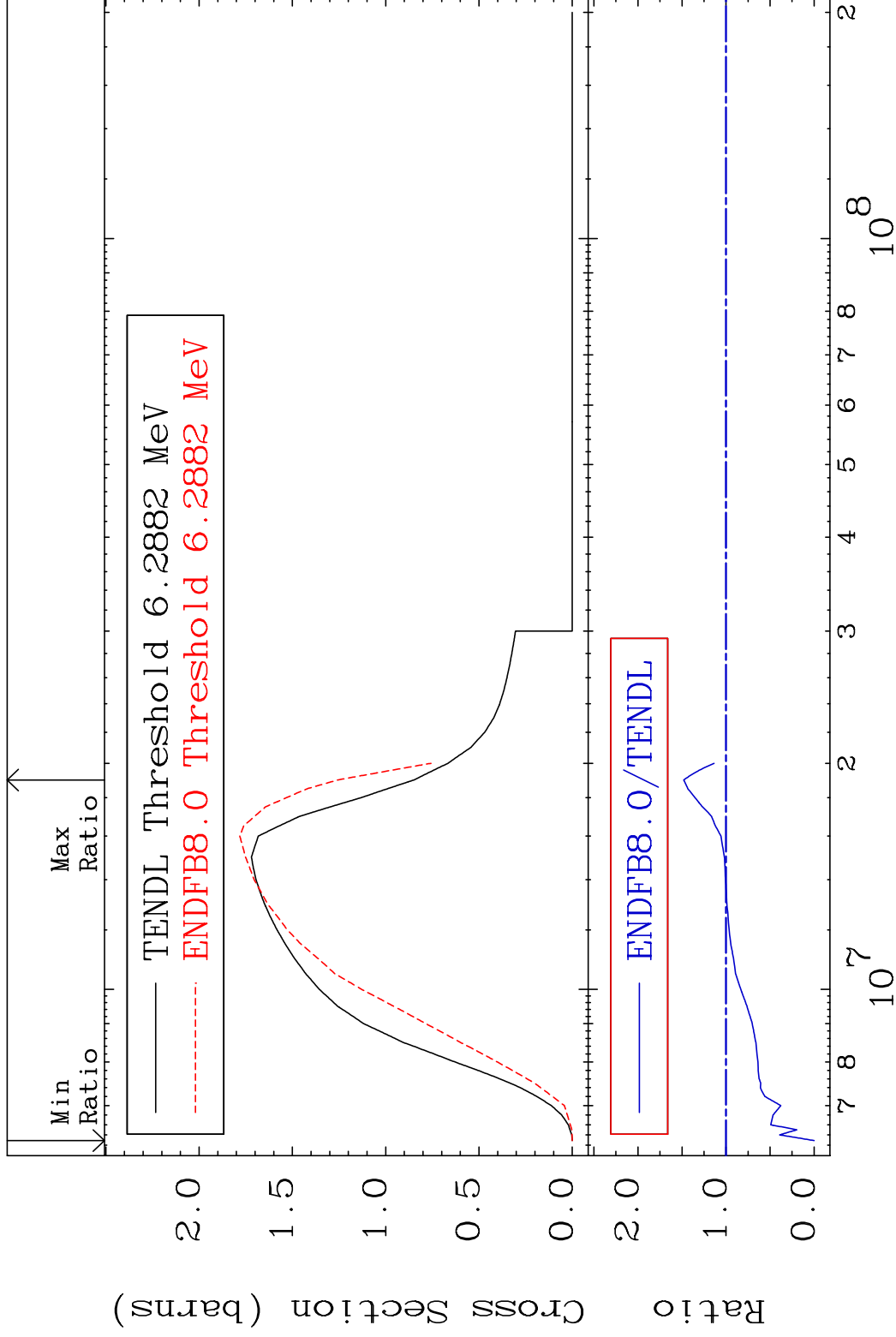


MAT 6428

(n,2n)

64-Gd-153

Cross Section -100.0 To 48.12 %



4

Incident Energy (eV)

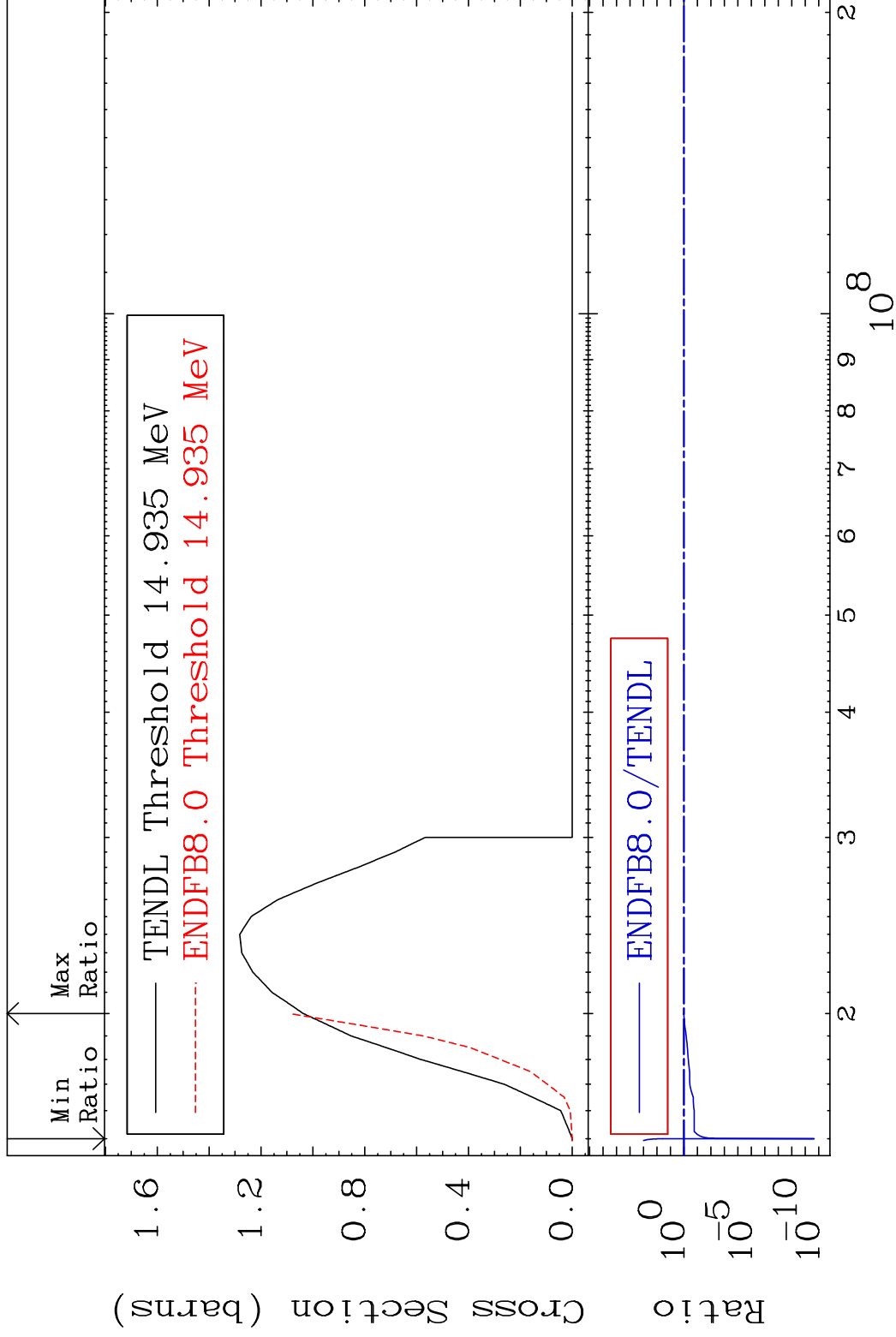
64-Gd-153

MAT 6428

(n,3n)

64-Gd-153

Cross Section -100.0 To 5.102 %



5

Incident Energy (eV)

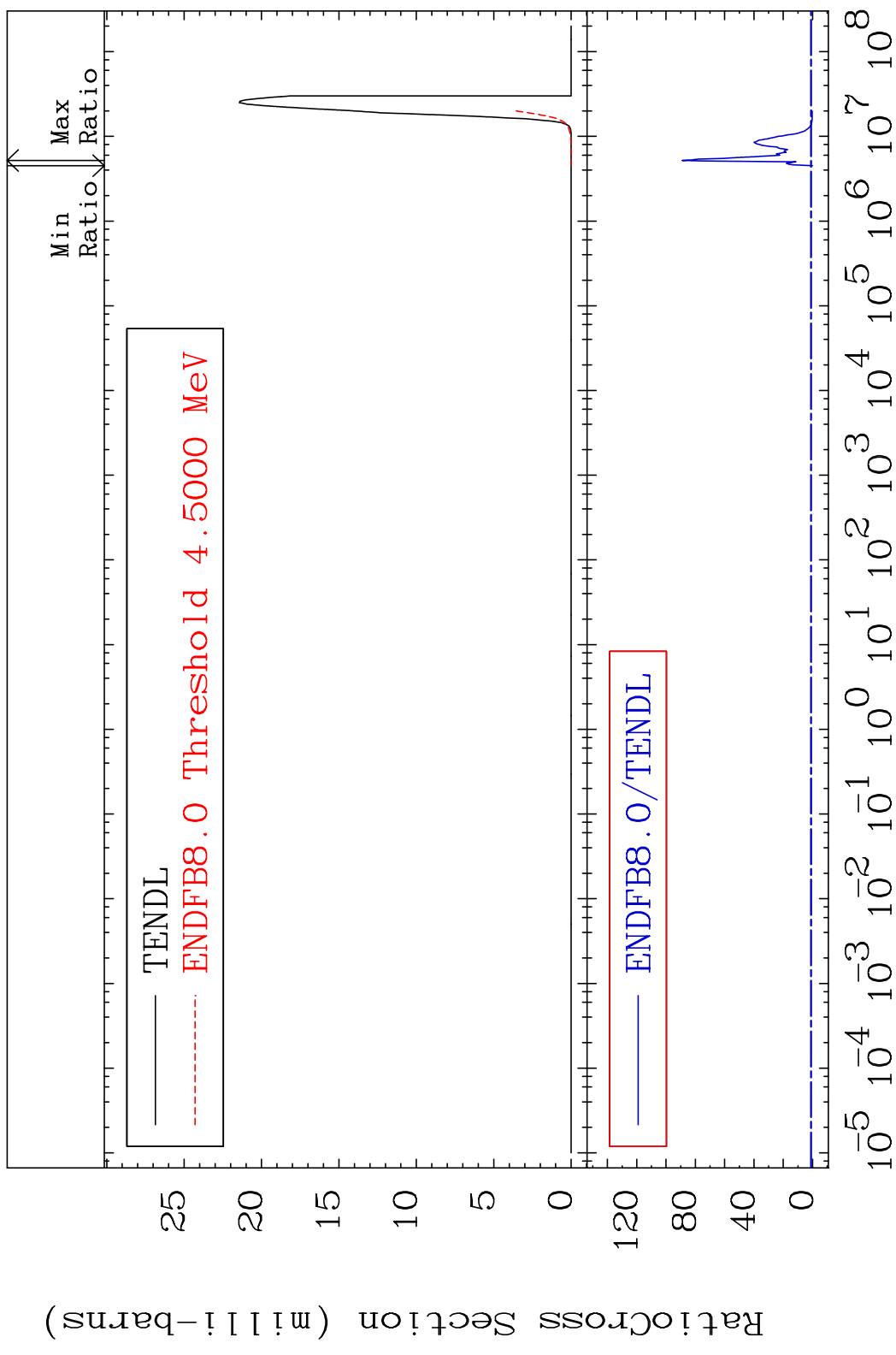
64-Gd-153

MAT 6428

(n, n') α

64-Gd-153

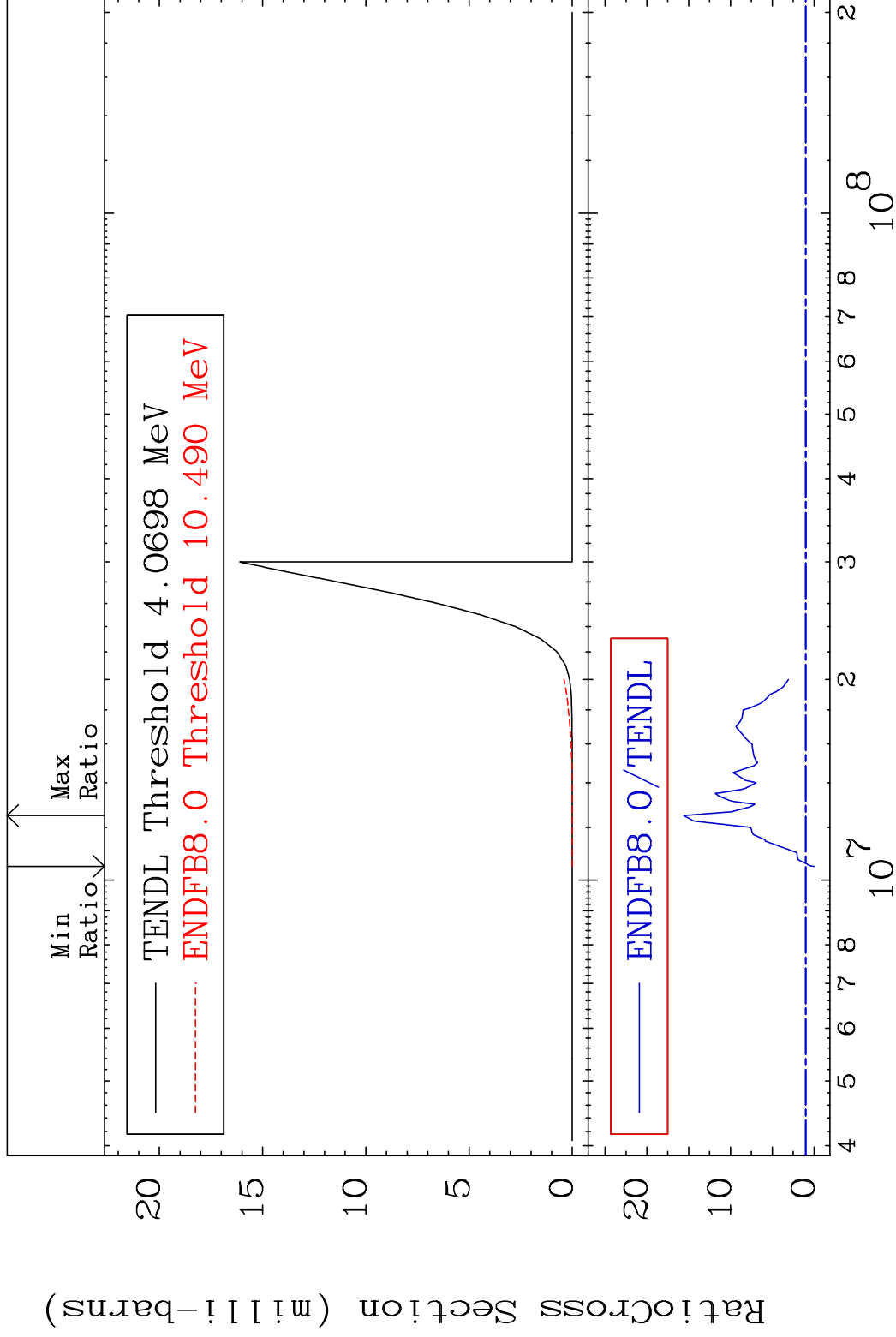
Cross Section -100.0 To 8787. %



MAT 6428

(n,2n) α 64-Gd-153

Cross Section -100.0 To 1460. %



7

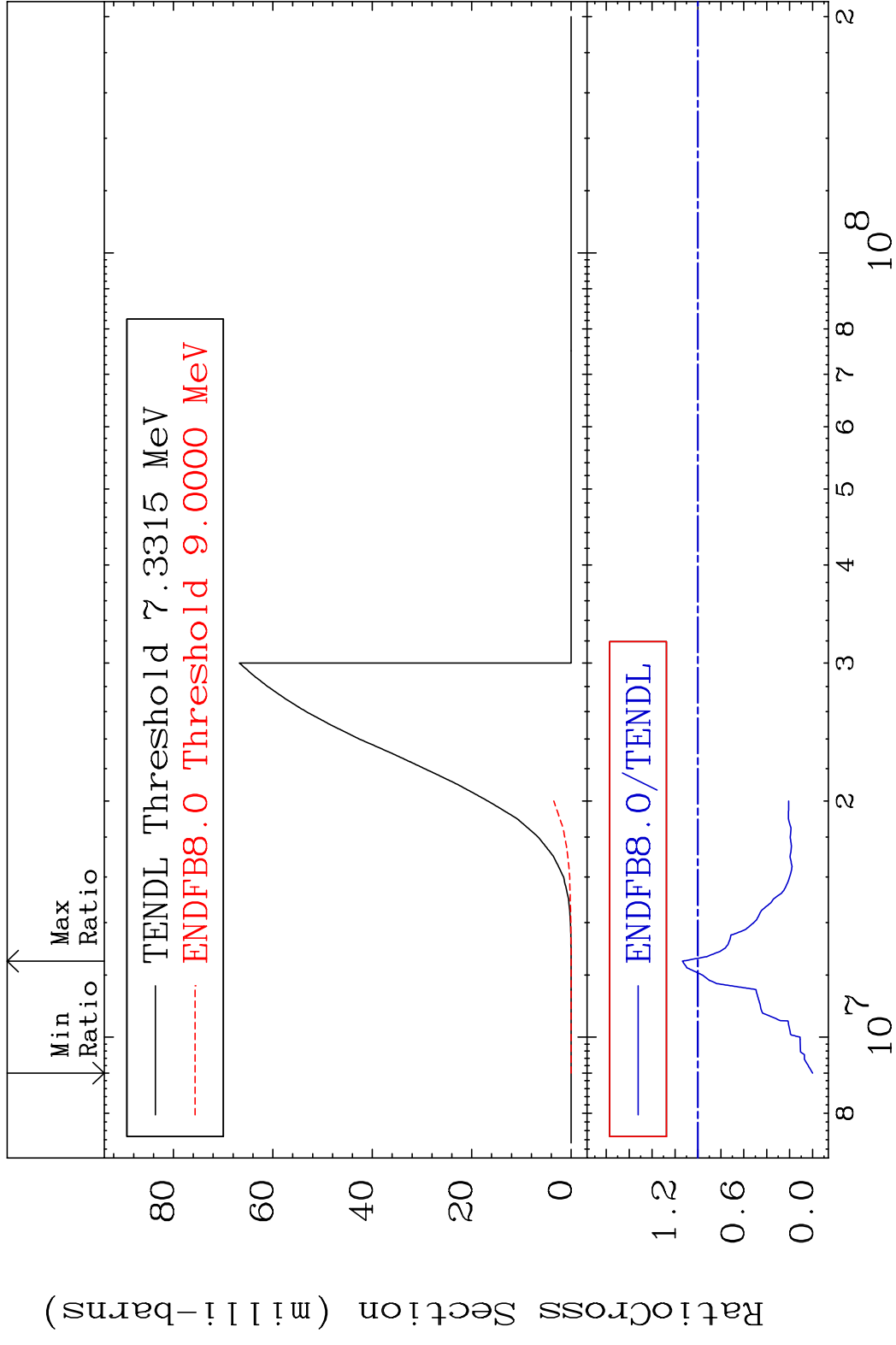
Incident Energy (eV)

64-Gd-153

MAT 6428

(n, n') p 64-Gd-153

Cross Section -100.0 To 13.61 %



8

Incident Energy (eV)

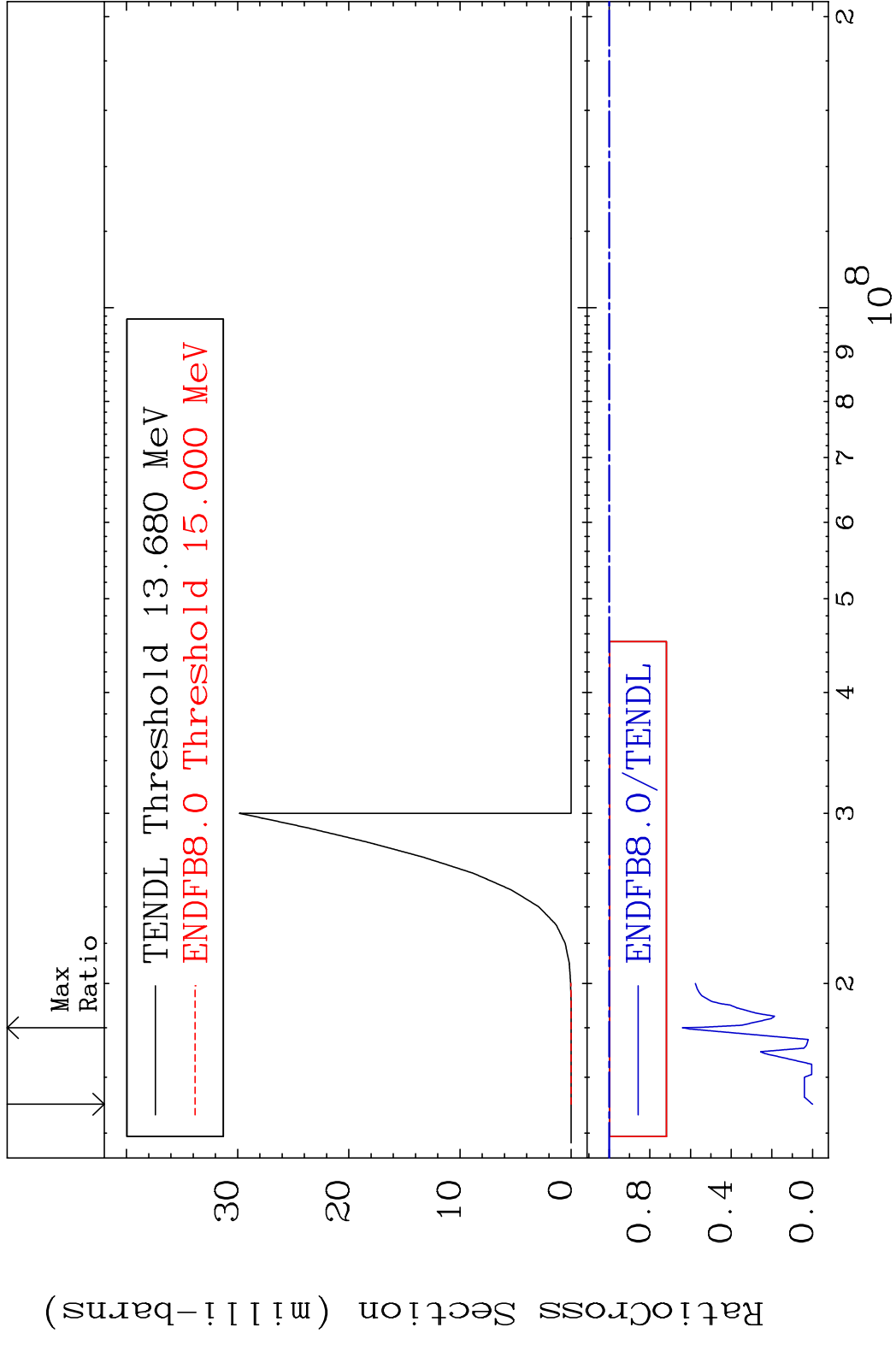
64-Gd-153

MAT 6428

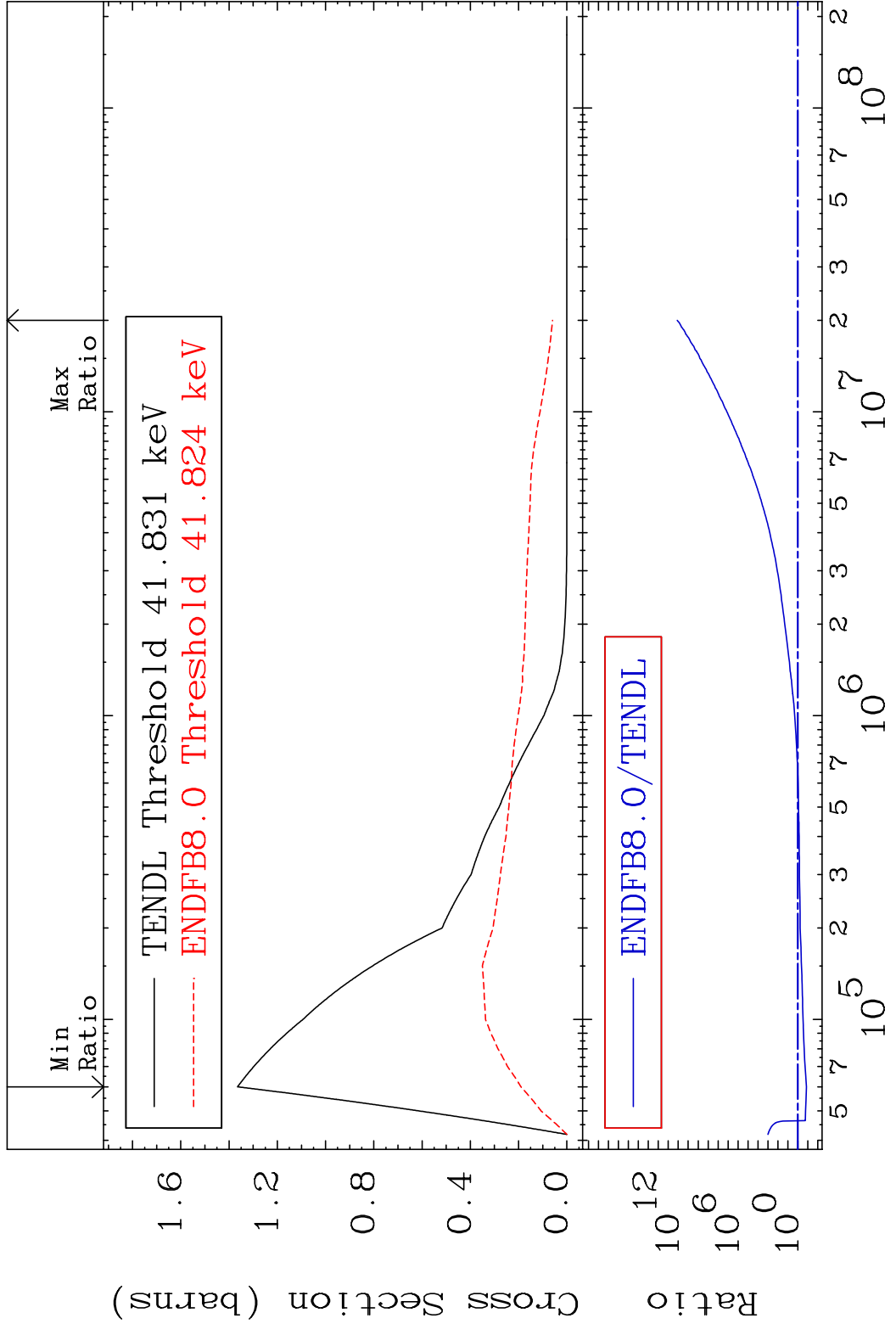
(n,2n) p

64-Gd-153

Cross Section -100.0 To -35.99%

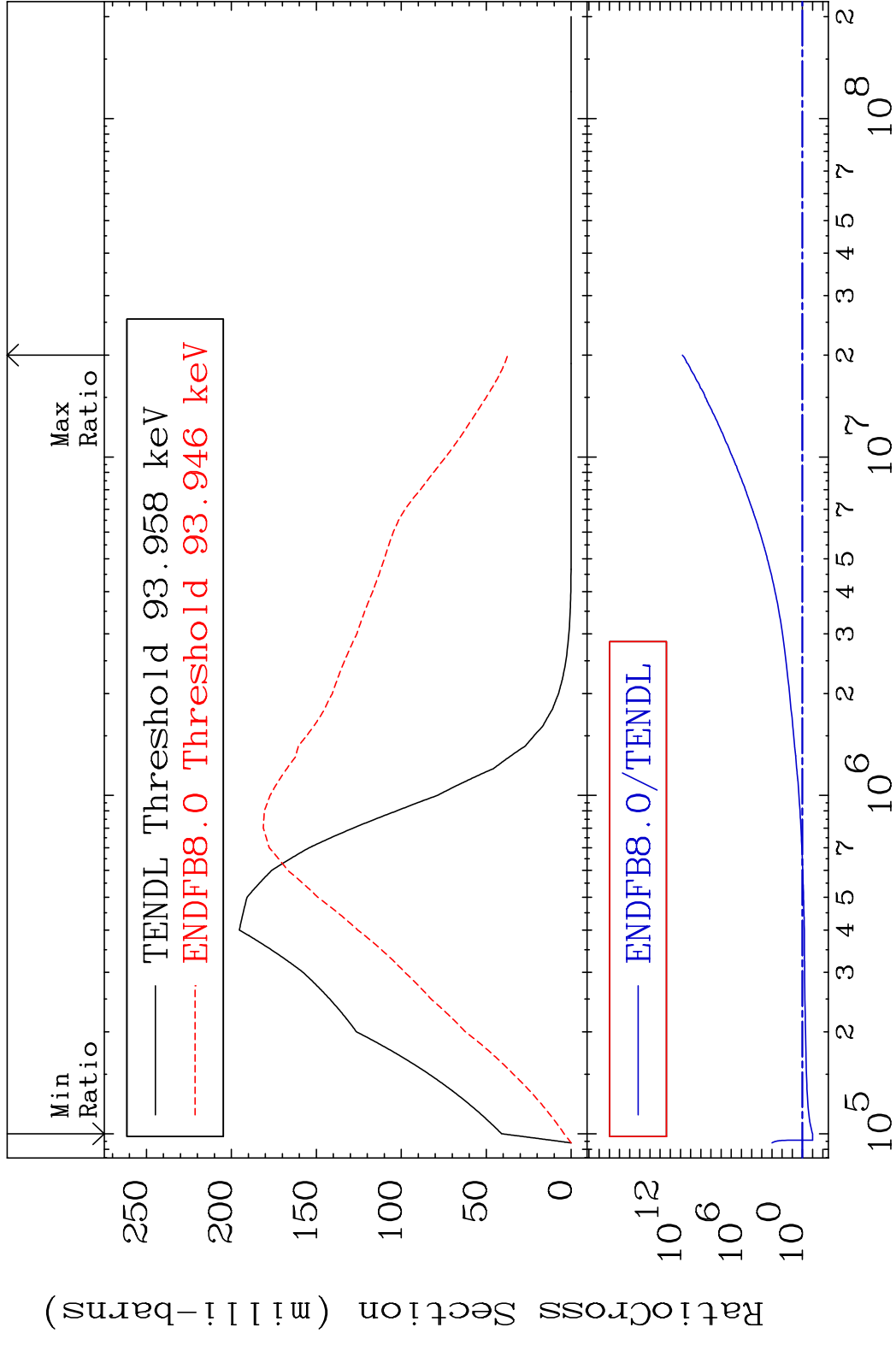


MAT 6428 MT= 51 (n,n') Level 64-Gd-153
 Cross Section -86.07 To 9999. %

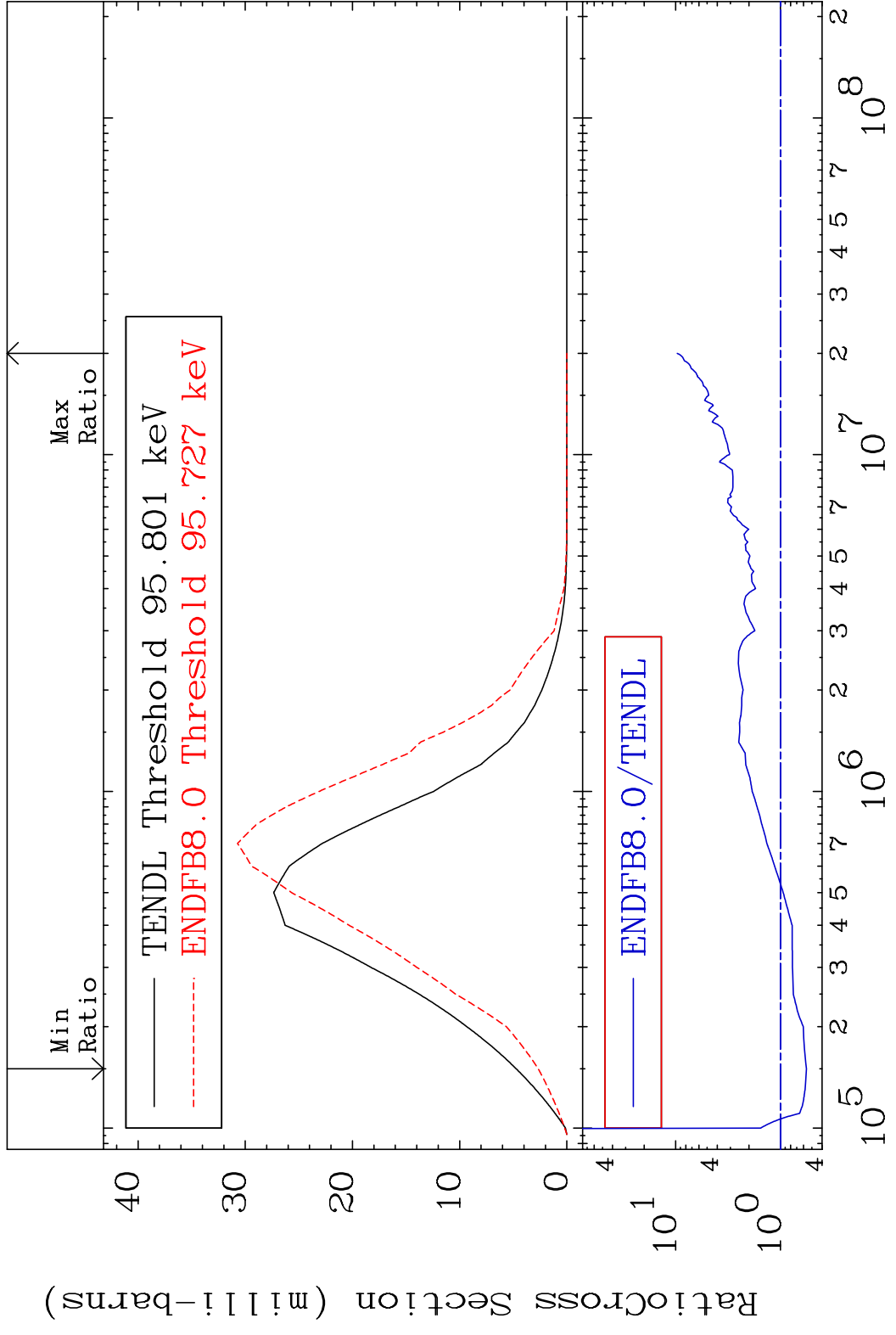


10 Incident Energy (eV) 64-Gd-153

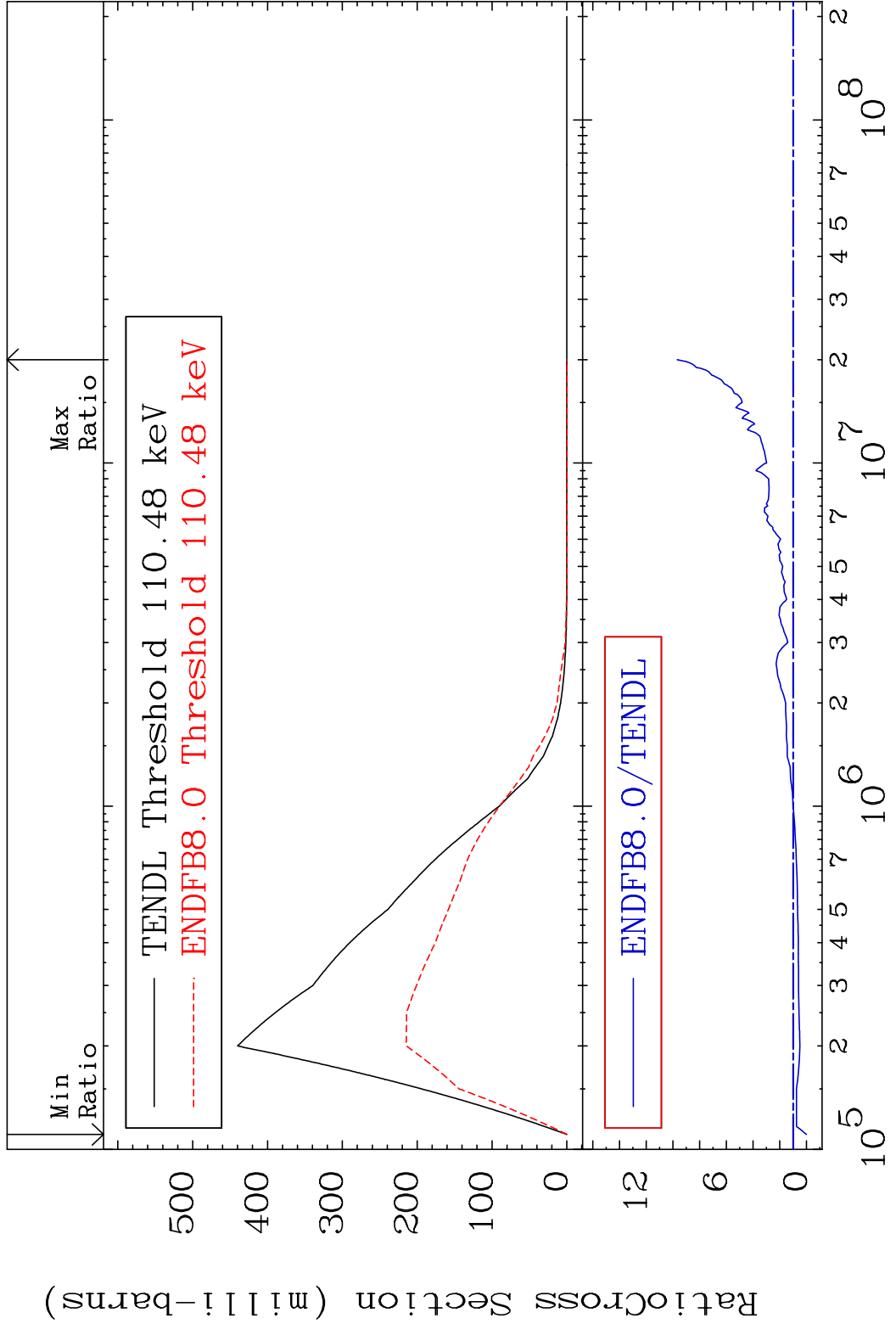
MAT 6428 MT= 52 (n, n') Level 64-Gd-153
 Cross Section -89.88 To 9999. %



MAT 6428 MT= 53 (n, n') Level 64-Gd-153
 Cross Section -43.56 To 866.8 %

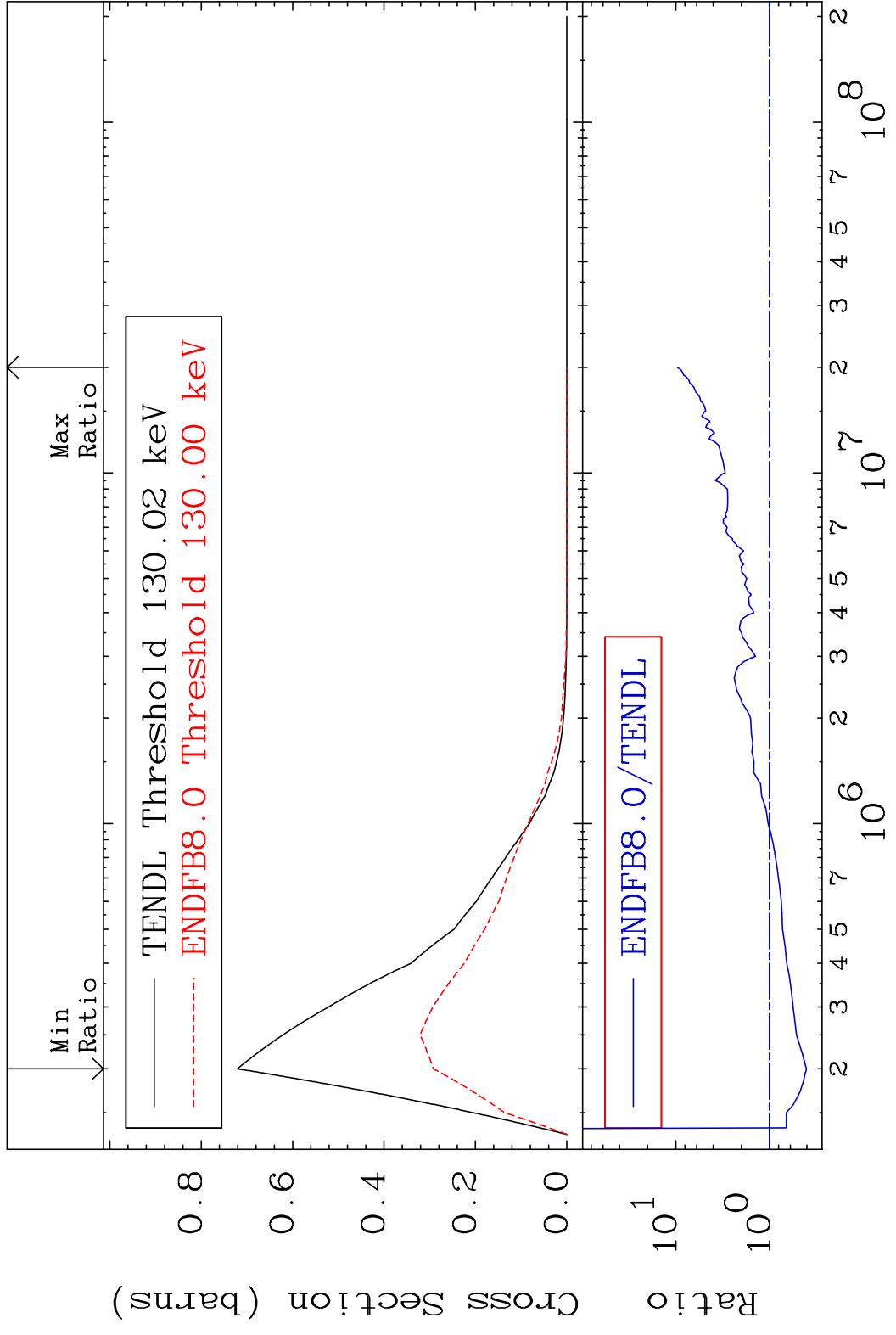


MAT 6428 MT= 54 (n,n') Level 64-Gd-153
 Cross Section -100.0 To 867.9 %

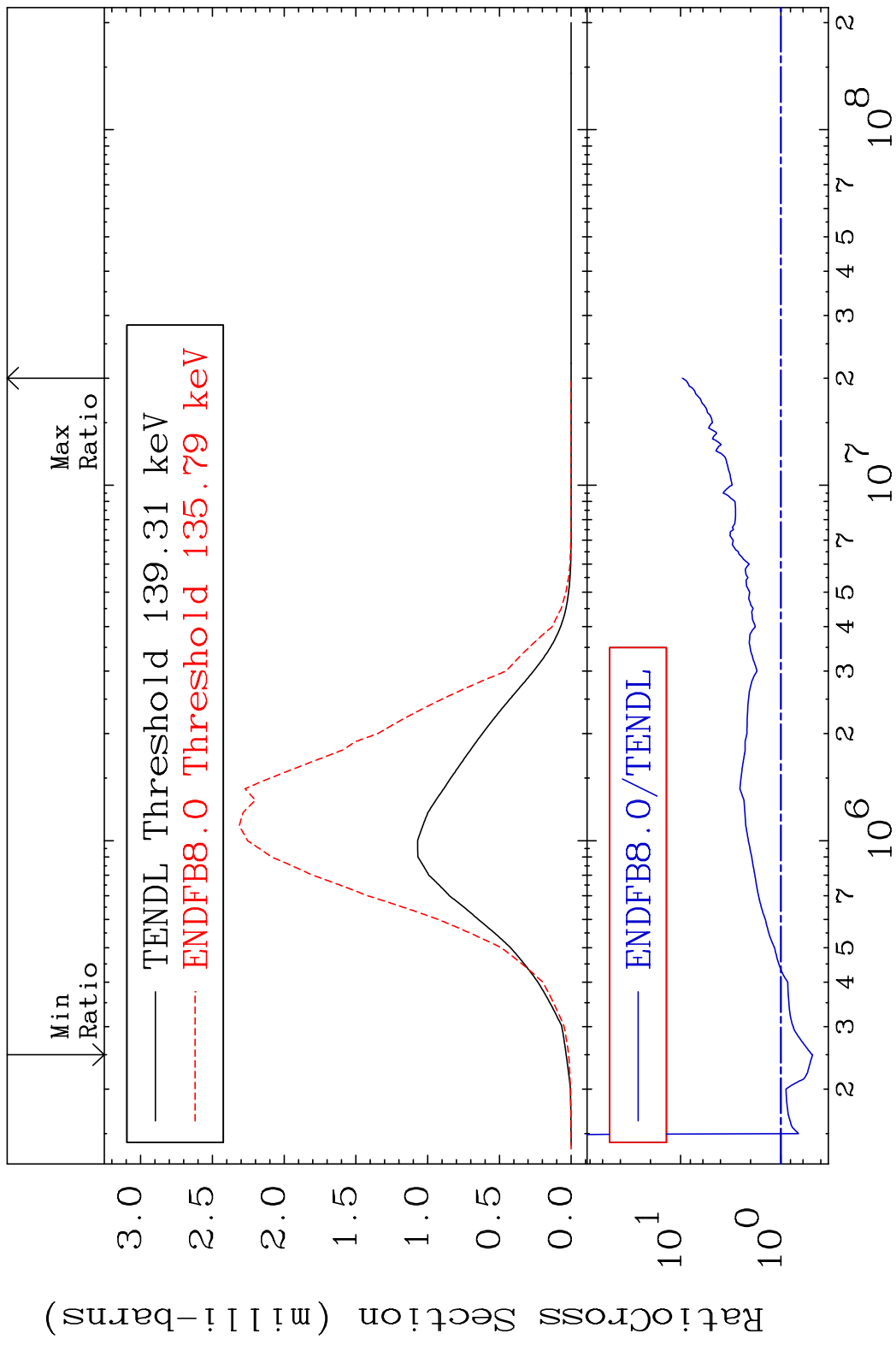


13 Incident Energy (eV) 64-Gd-153

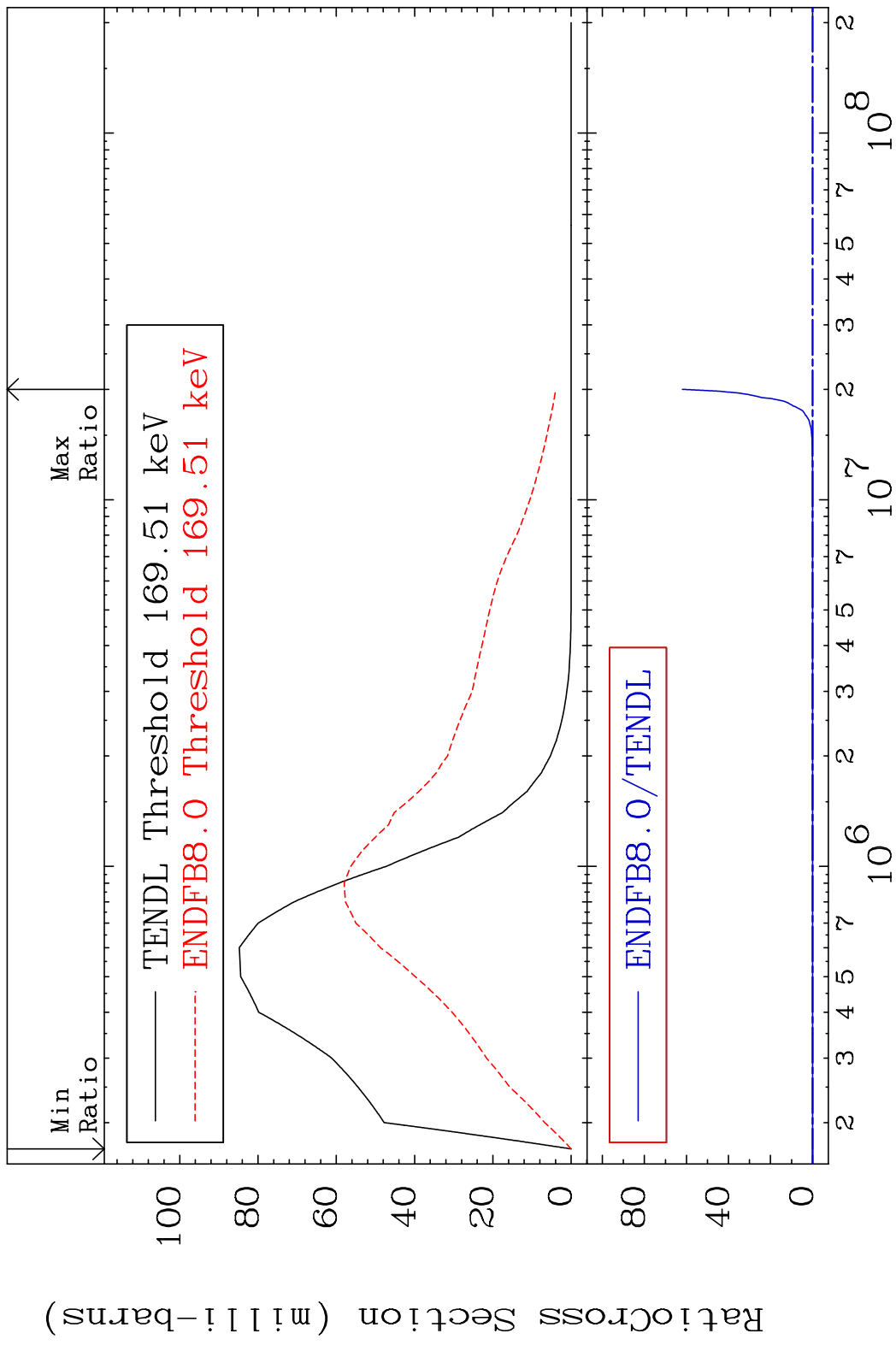
MAT 6428 MT= 55 (n,n') Level 64-Gd-153
 Cross Section -59.50 To 868.0 %



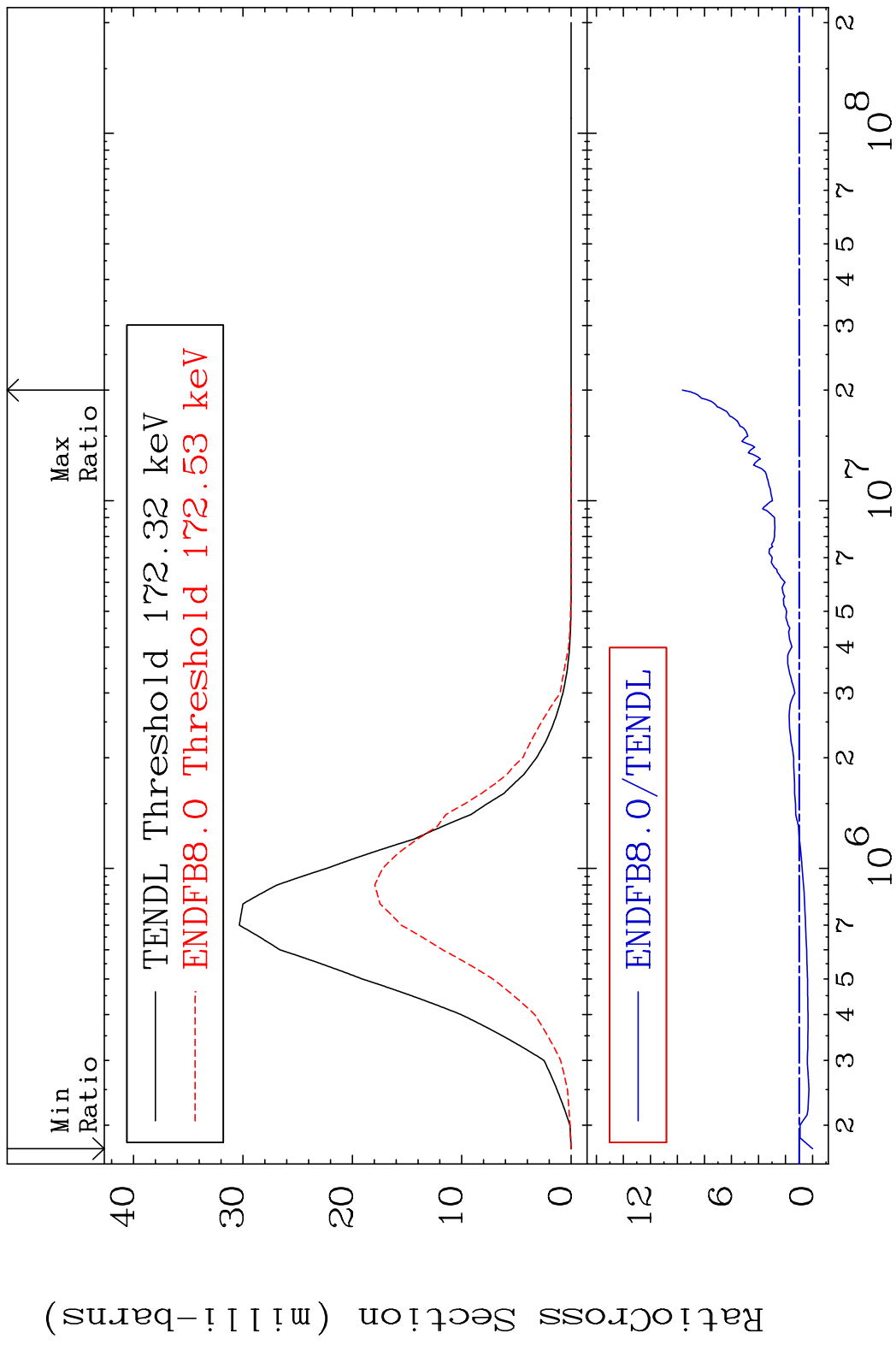
MAT 6428 MT= 56 (n,n') Level 64-Gd-153
 Cross Section -51.74 To 860.6 %



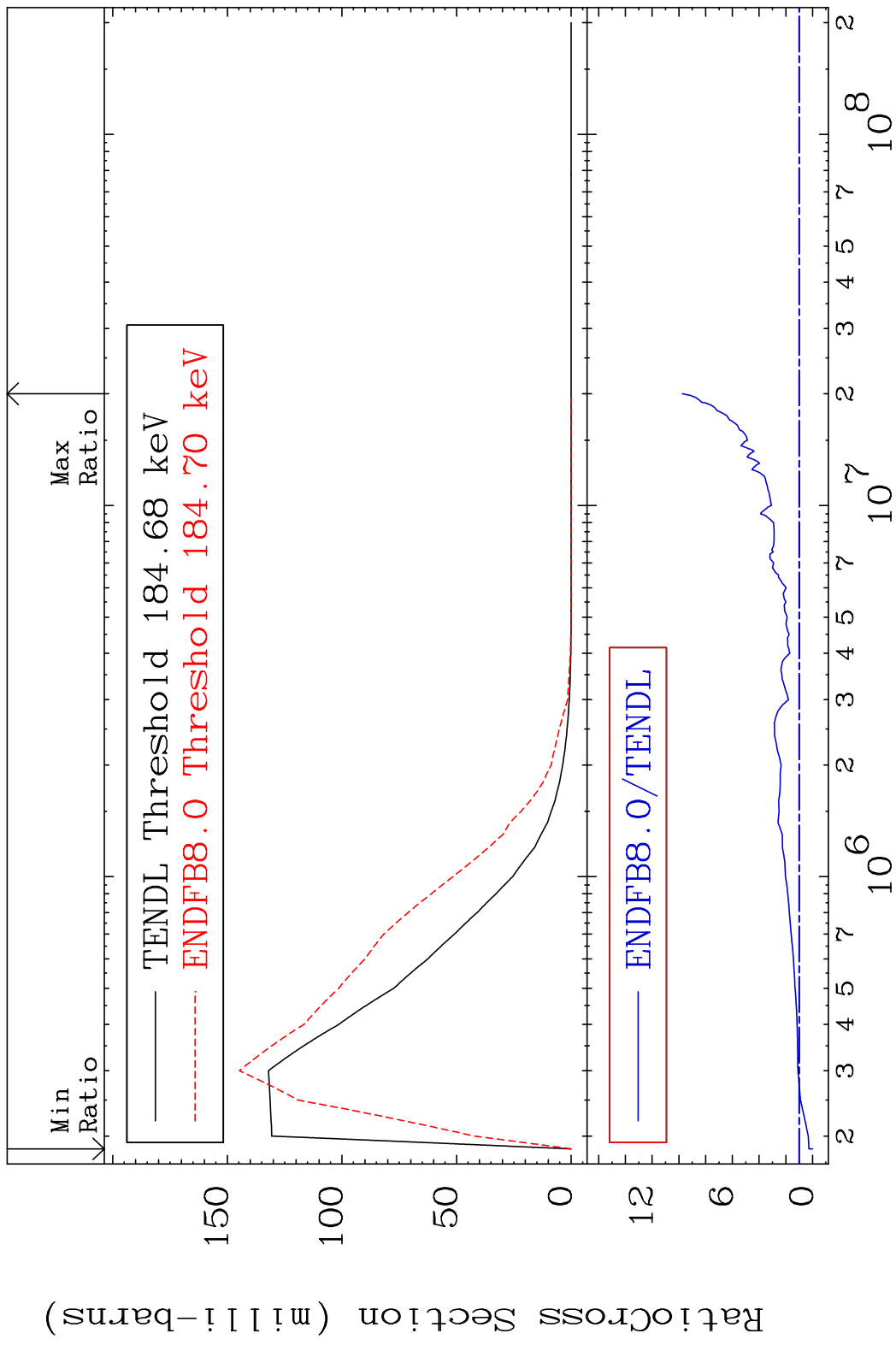
MAT 6428 MT= 57 (n,n') Level 64-Gd-153
 Cross Section -100.0 To 9999. %



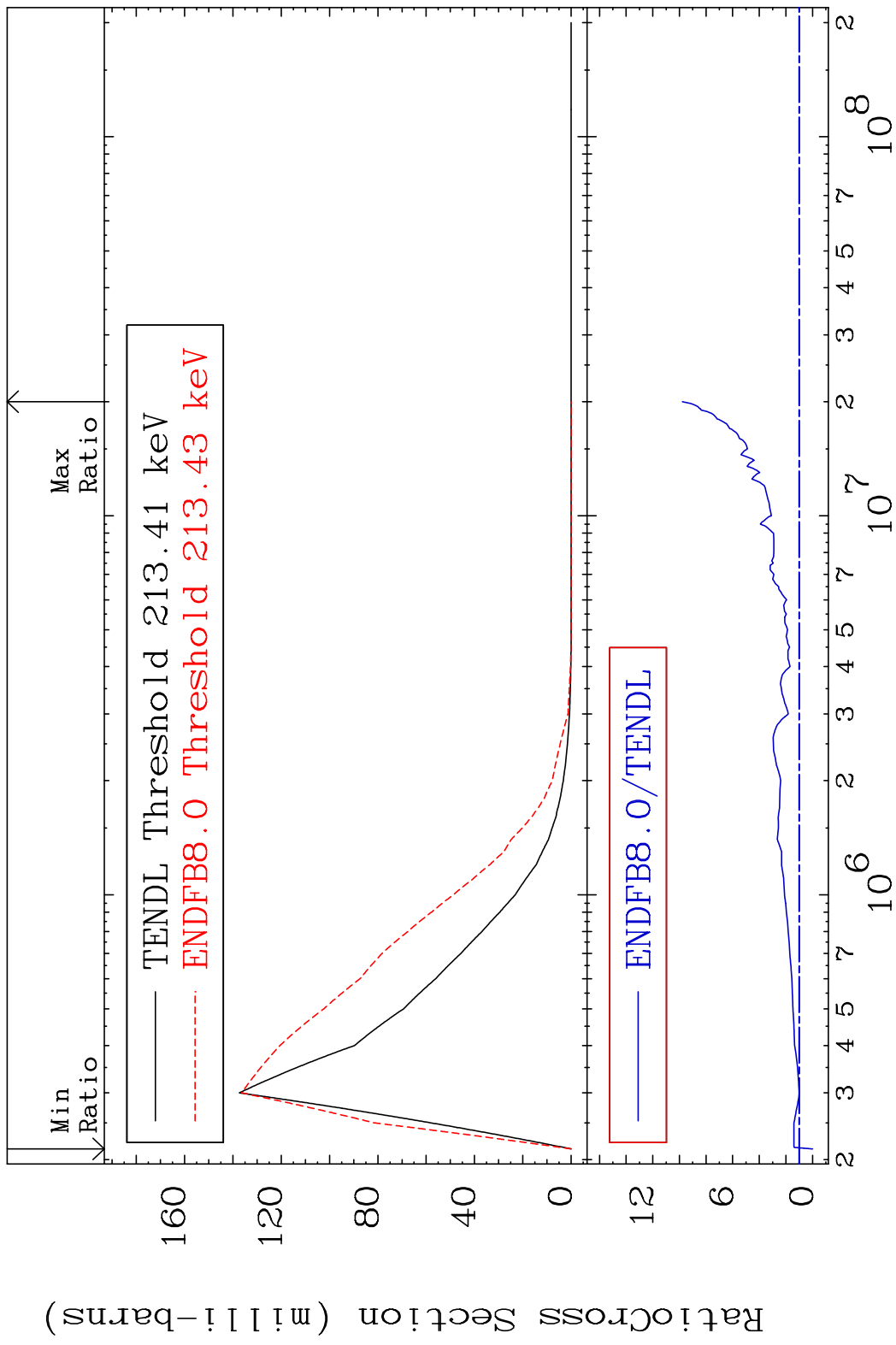
MAT 6428 MT= 58 (n,n') Level 64-Gd-153
 Cross Section -100.0 To 863.4 %



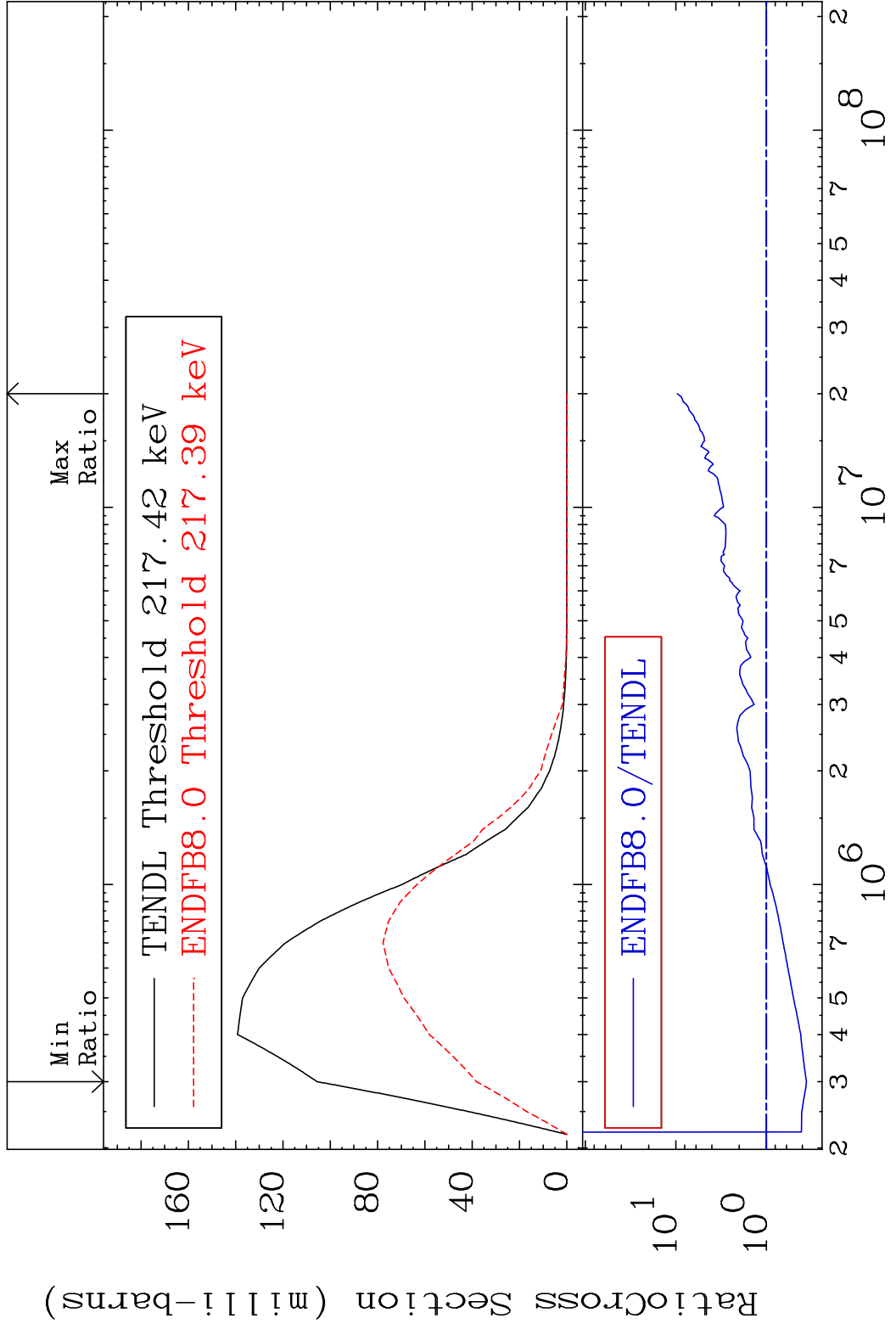
MAT 6428 MT= 59 (n, n') Level 64-Gd-153
 Cross Section -100.0 To 874.2 %



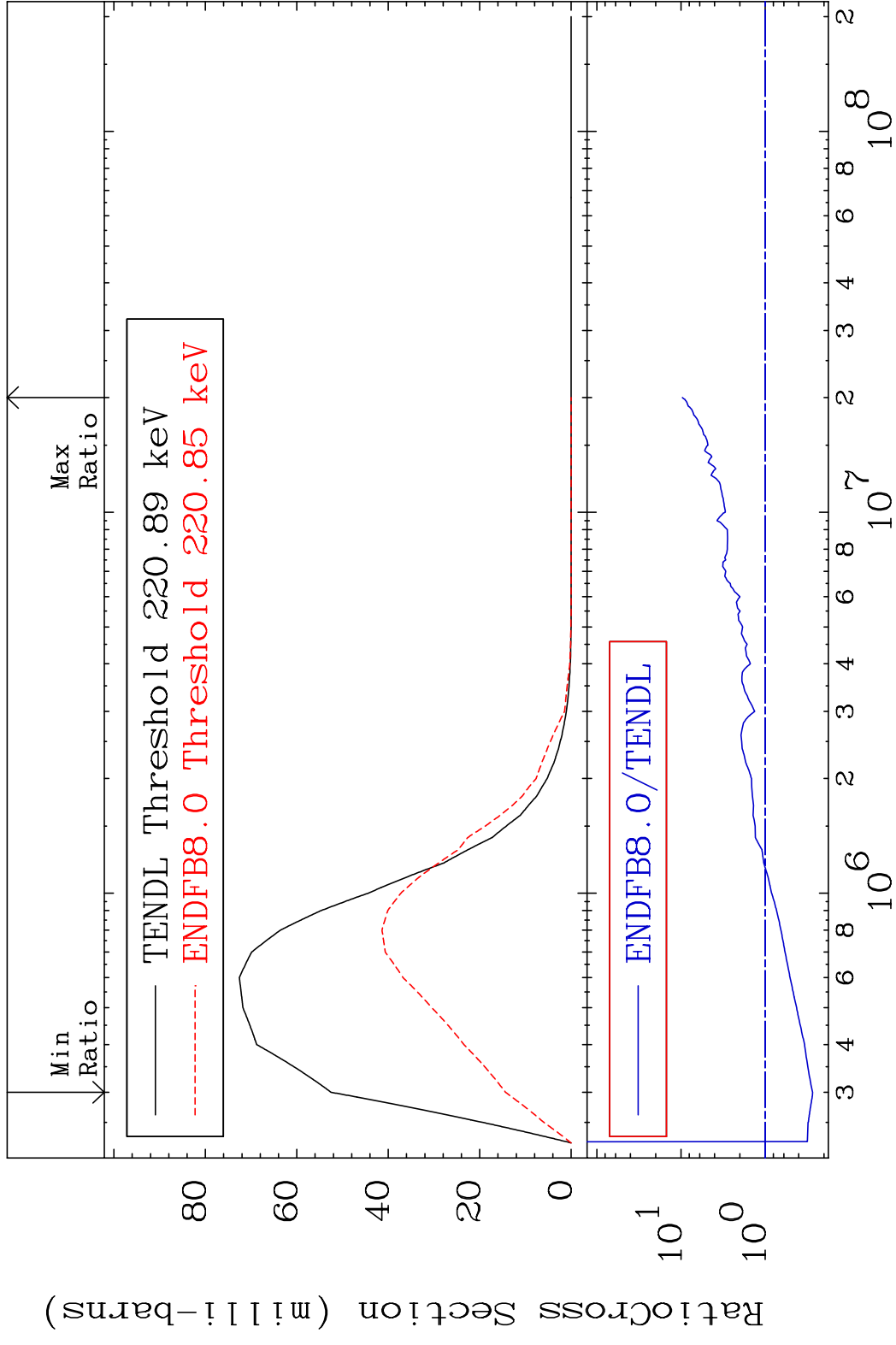
MAT 6428 MT= 60 (n,n') Level 64-Gd-153
 Cross Section -100.0 To 877.8 %



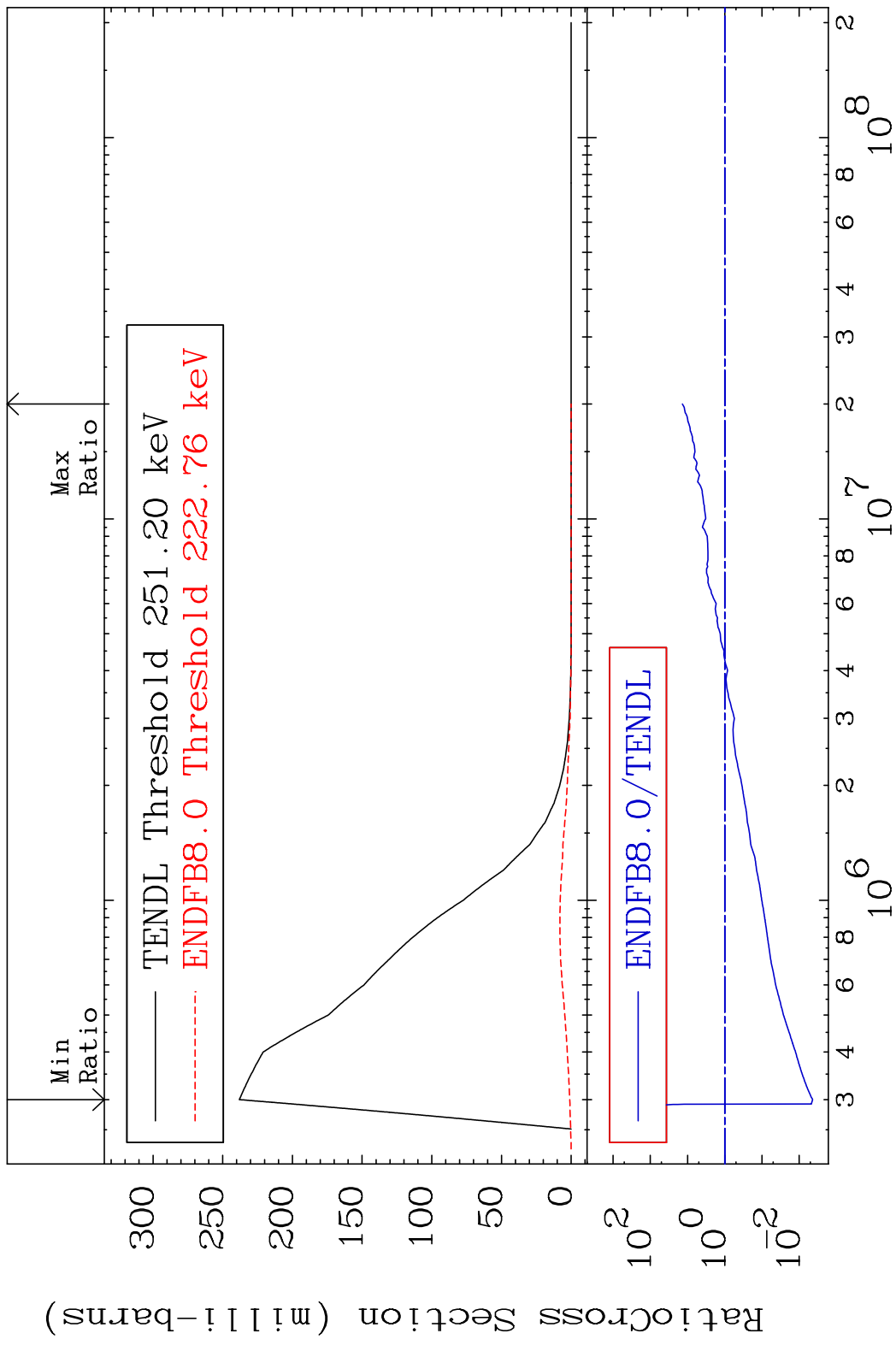
MAT 6428 MT= 61 (n,n') Level 64-Gd-153
 Cross Section -63.85 To 866.8 %



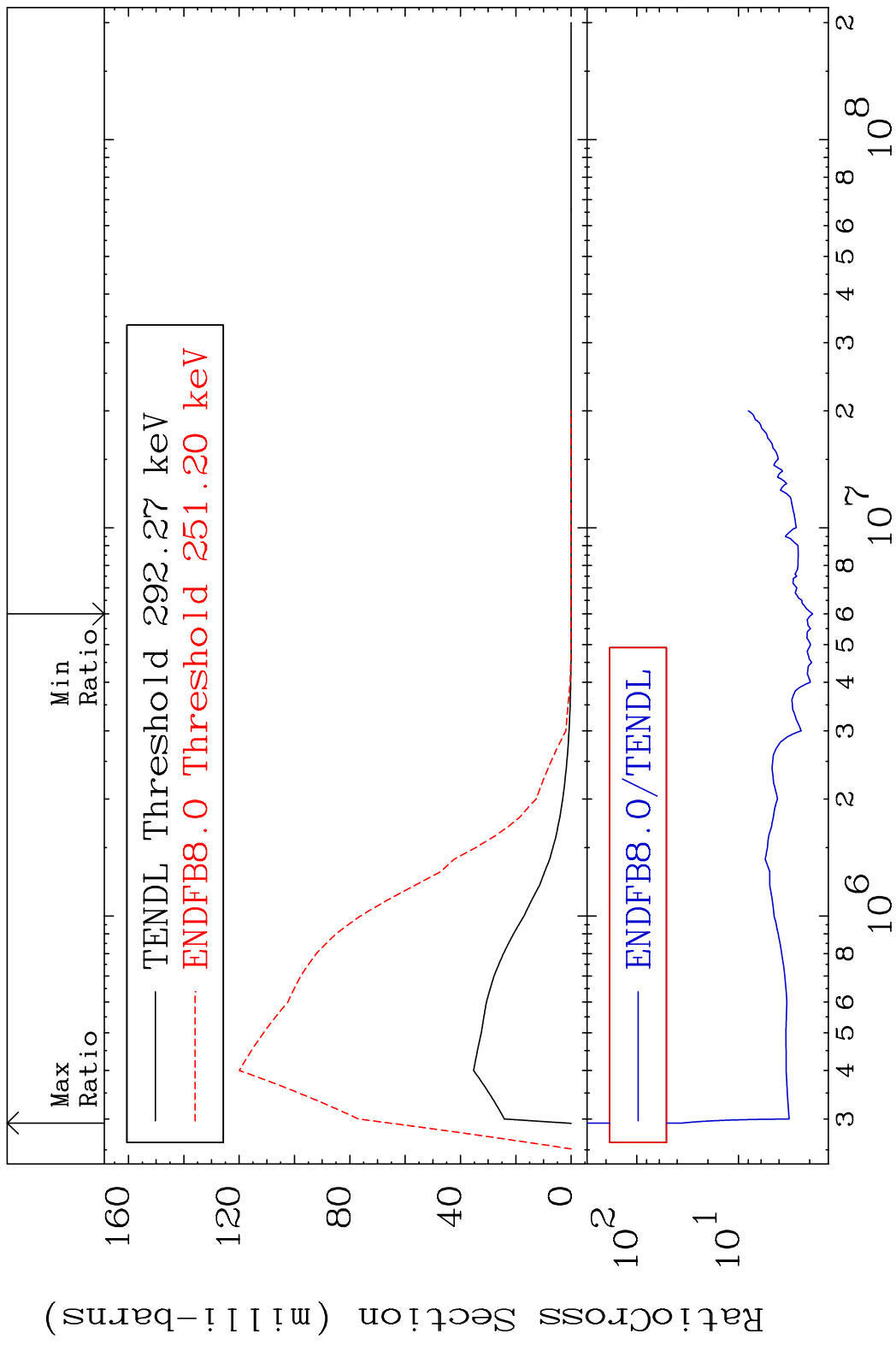
MAT 6428 MT= 62 (n,n') Level 64-Gd-153
 Cross Section -72.61 To 865.1 %



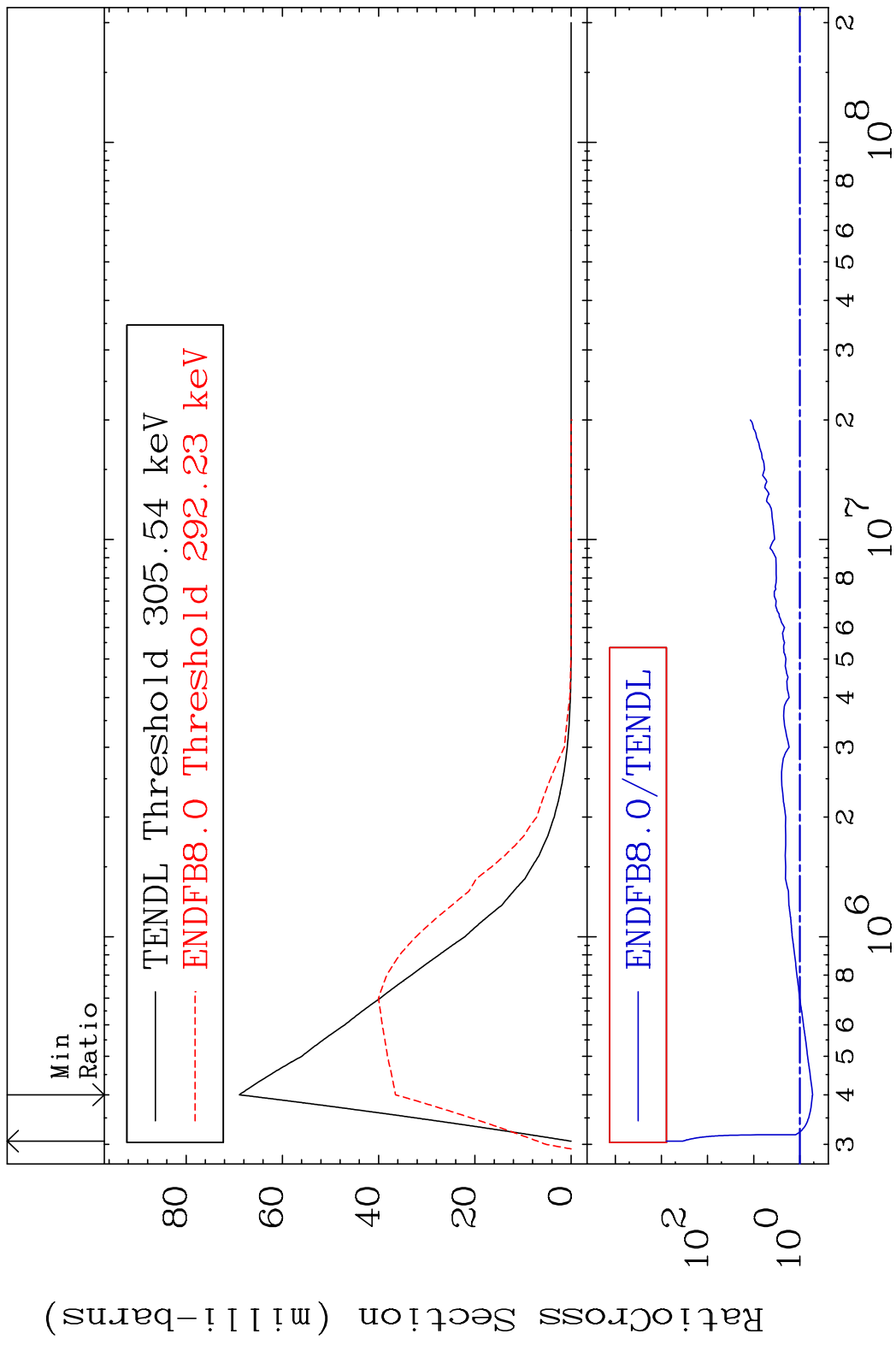
MAT 6428 MT= 63 (n, n') Level 64-Gd-153
 Cross Section -99.56 To 1278. %



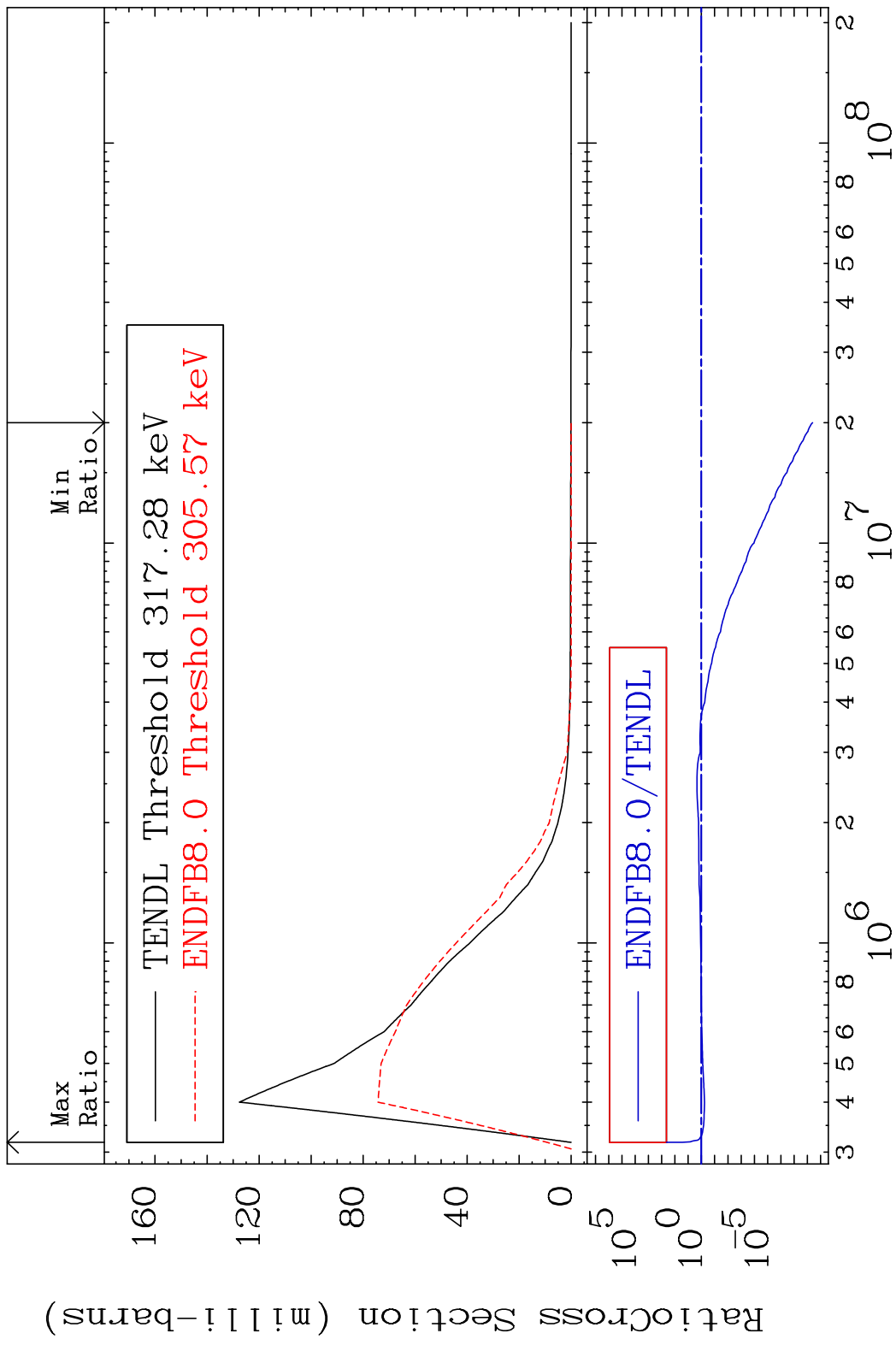
MAT 6428 MT= 64 (n,n') Level 64-Gd-153
 Cross Section 87.30 To 3461. %



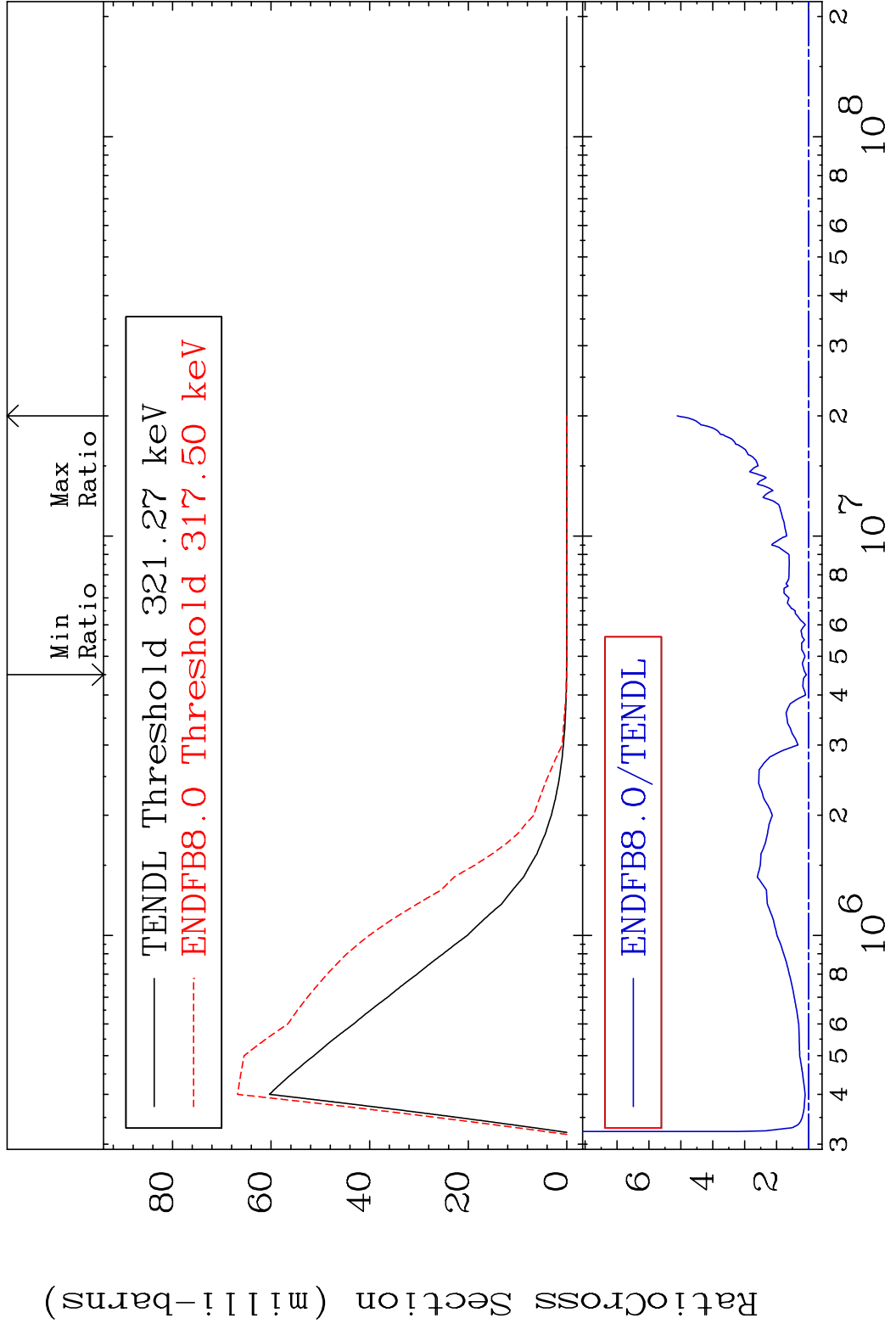
MAT 6428 MT= 65 (n,n') Level 64-Gd-153
 Cross Section -47.06 To 9999. %



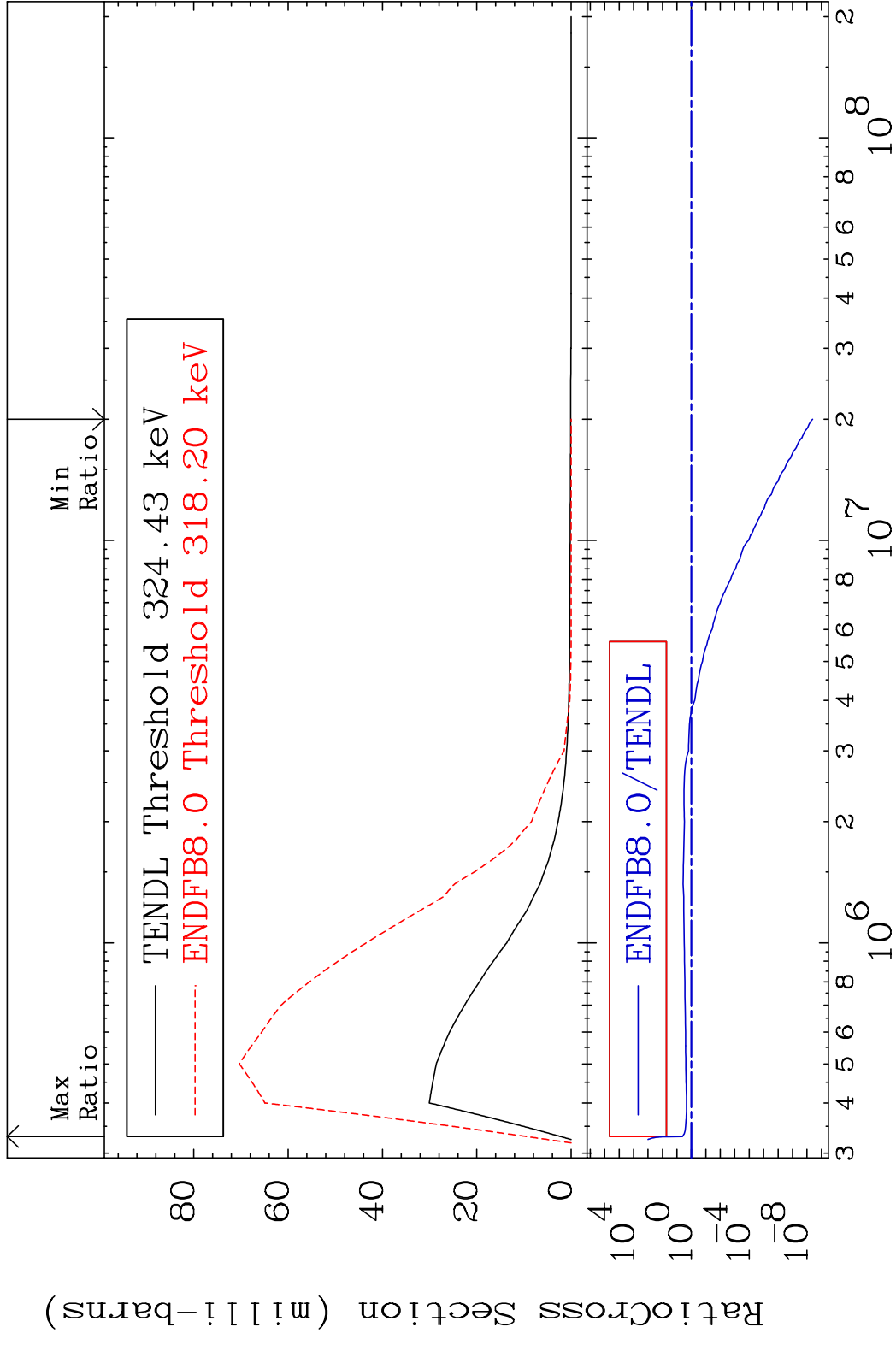
MAT 6428 MT= 66 (n,n') Level 64-Gd-153
 Cross Section -100.0 To 2640. %



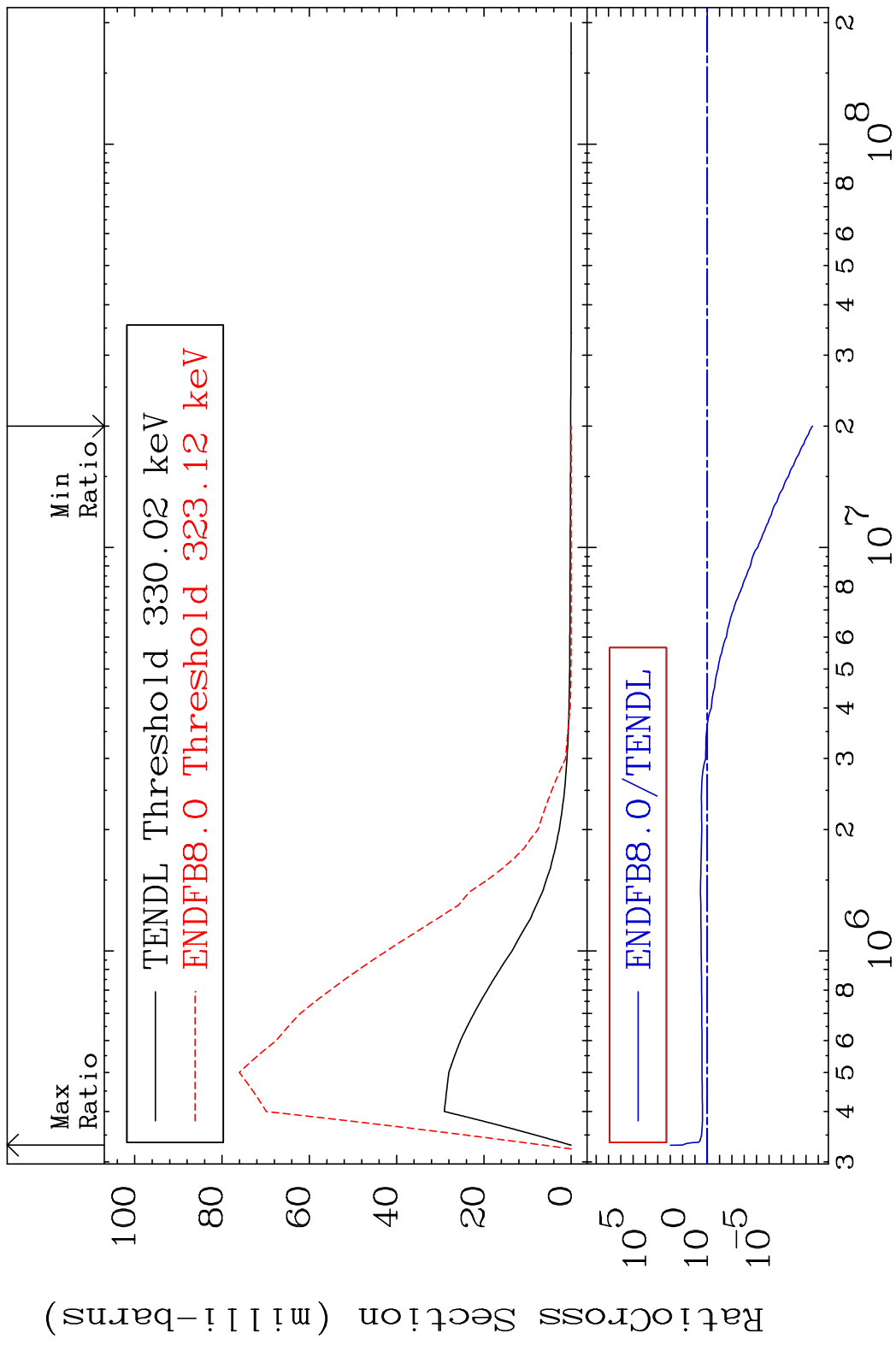
MAT 6428 MT= 67 (n, n') Level 64-Gd-153
 Cross Section 6.516 To 411.6 %



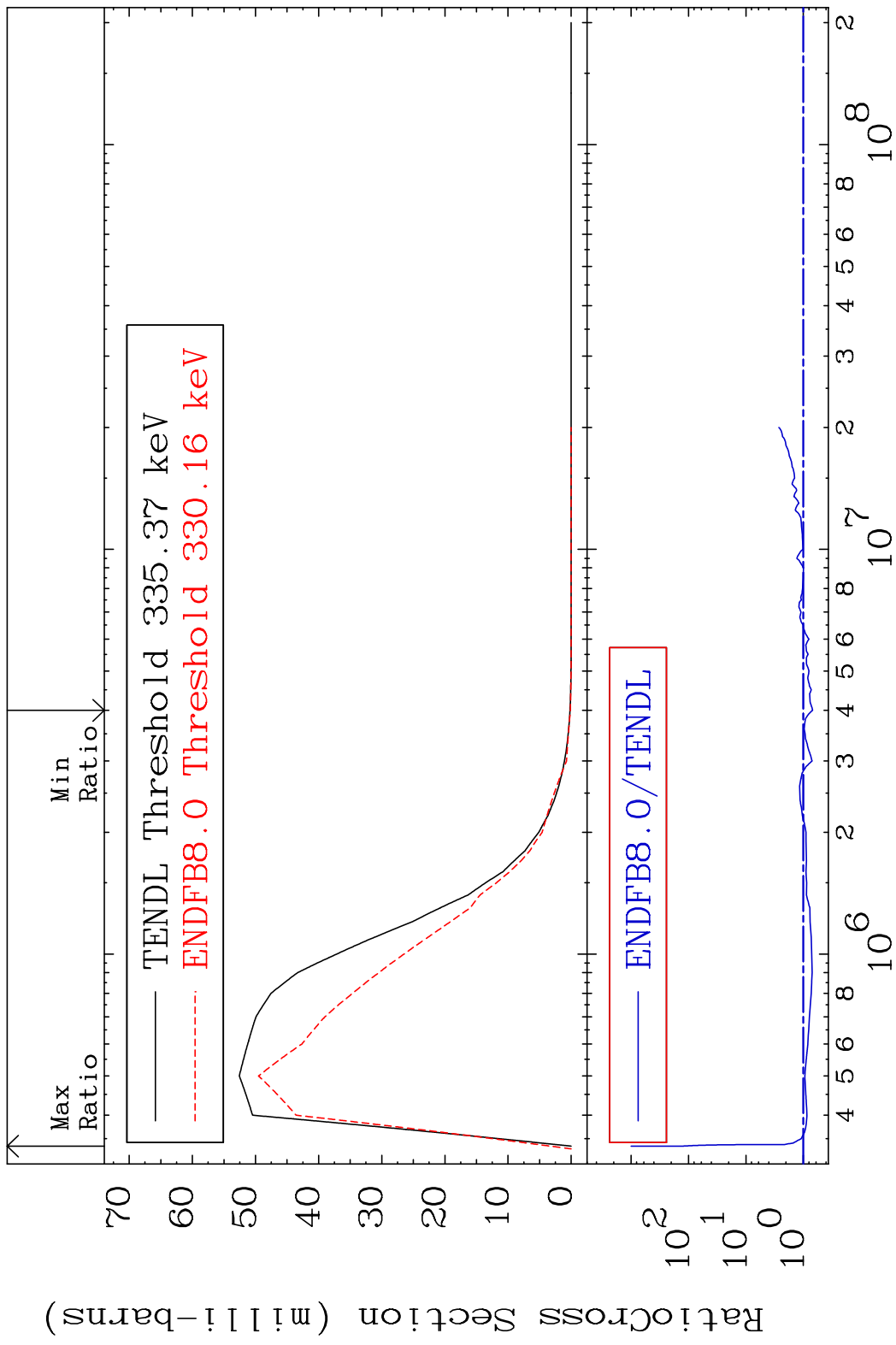
MAT 6428 MT= 68 (n,n') Level 64-Gd-153
 Cross Section -100.0 To 321.7 %



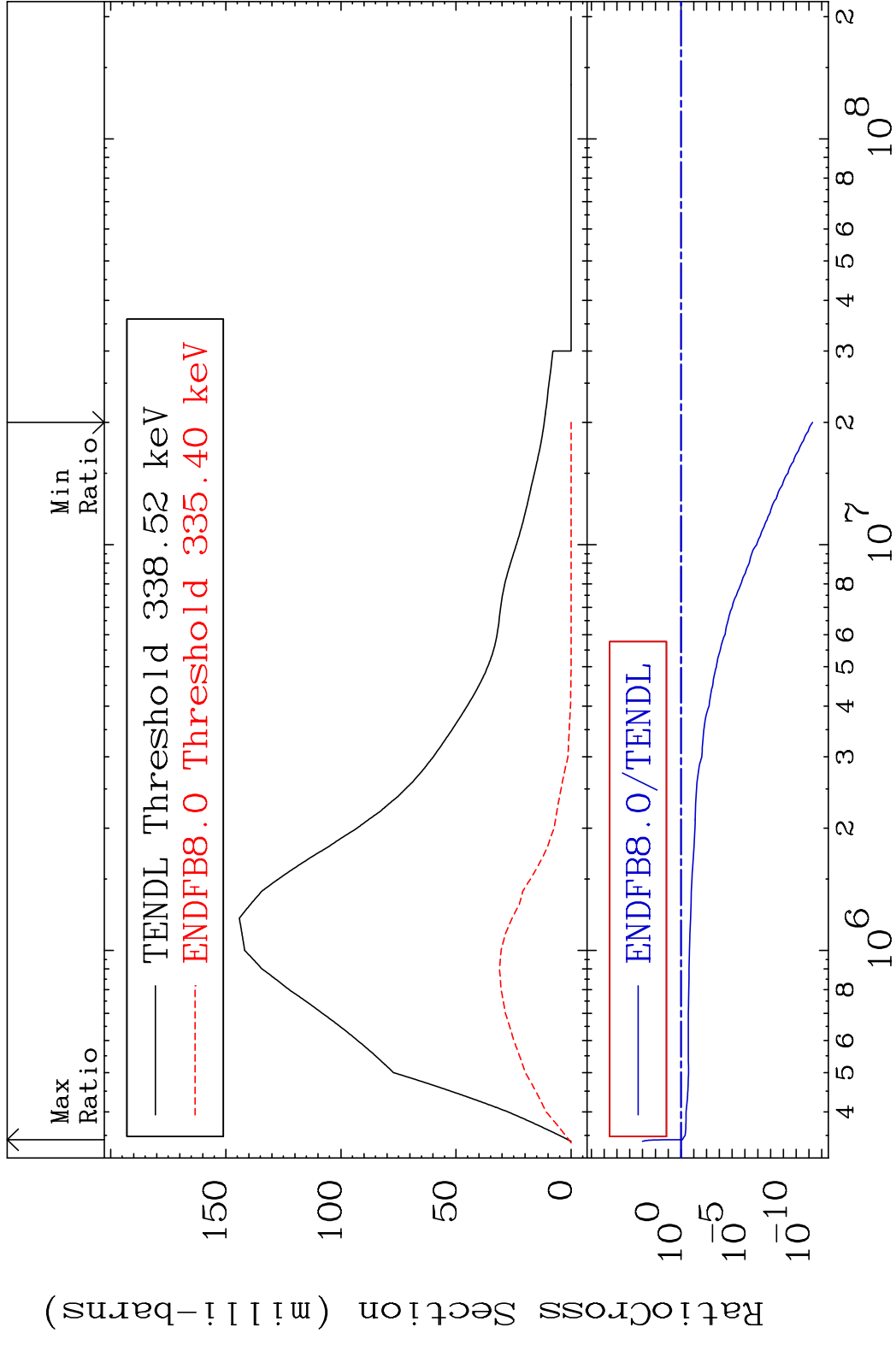
MAT 6428 MT= 69 (n,n') Level 64-Gd-153
 Cross Section -100.0 To 9999. %



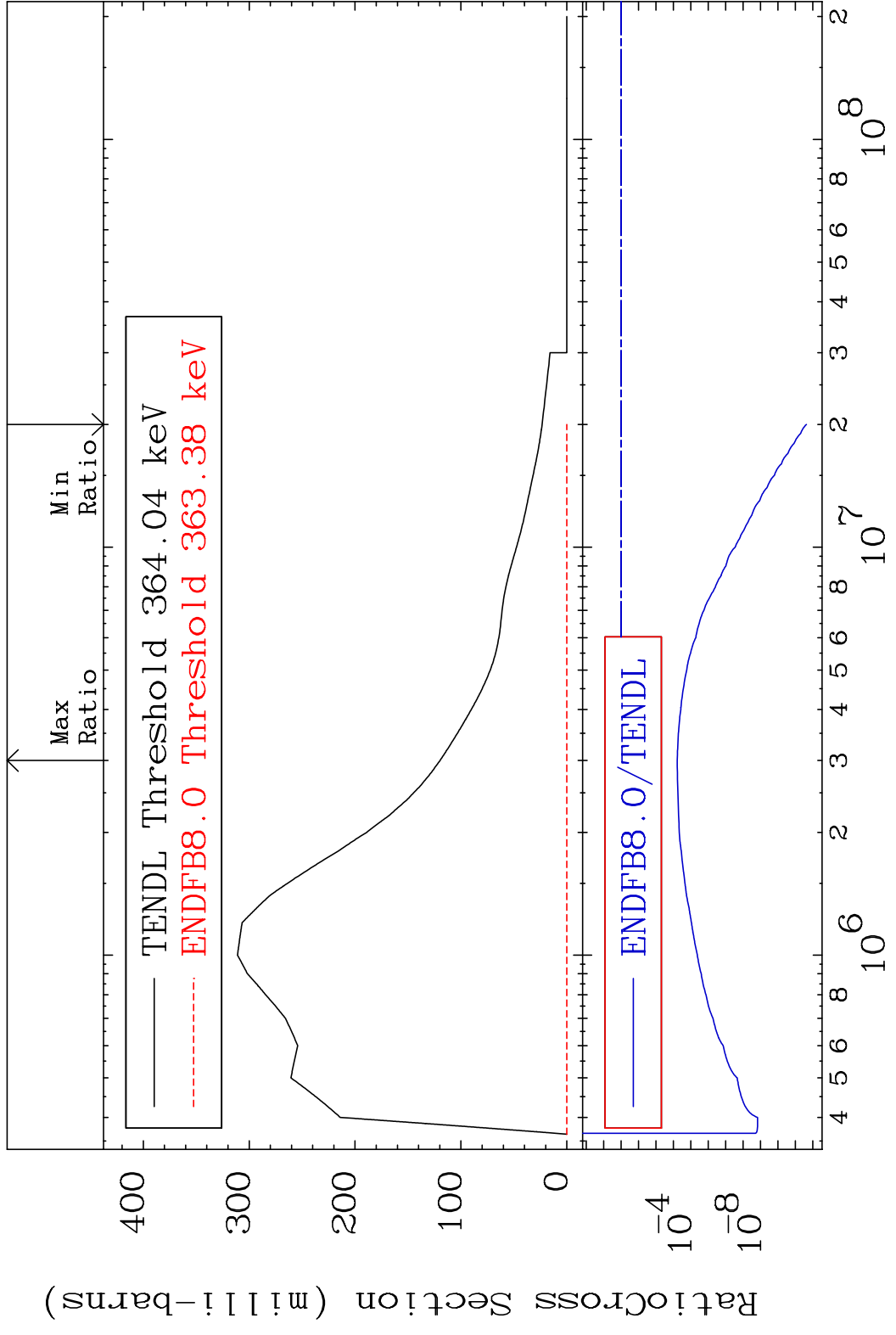
MAT 6428 MT= 70 (n,n') Level 64-Gd-153
 Cross Section -30.98 To 9999. %



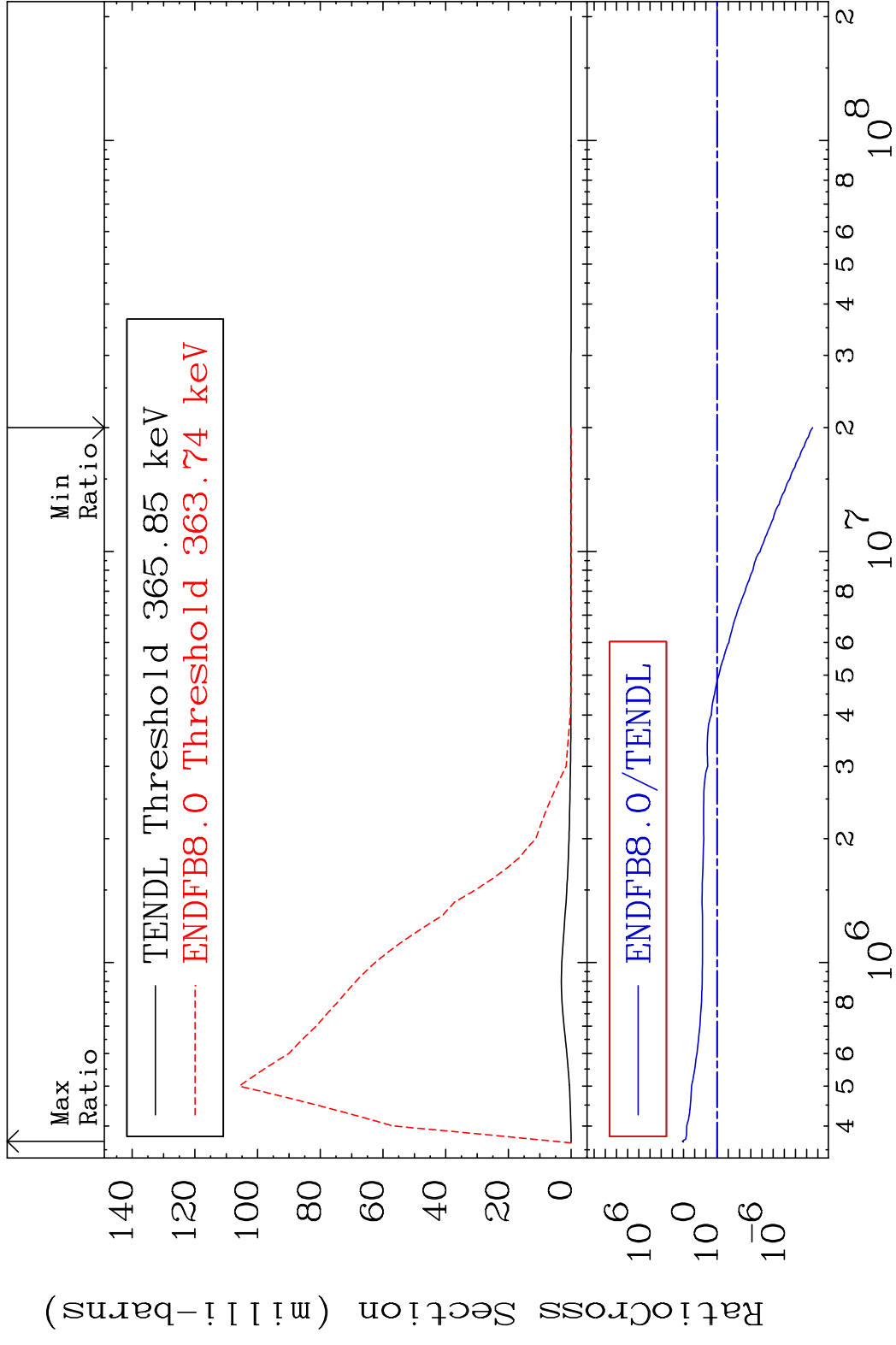
MAT 6428 MT= 71 (n,n') Level 64-Gd-153
 Cross Section -100.0 To -21.94%



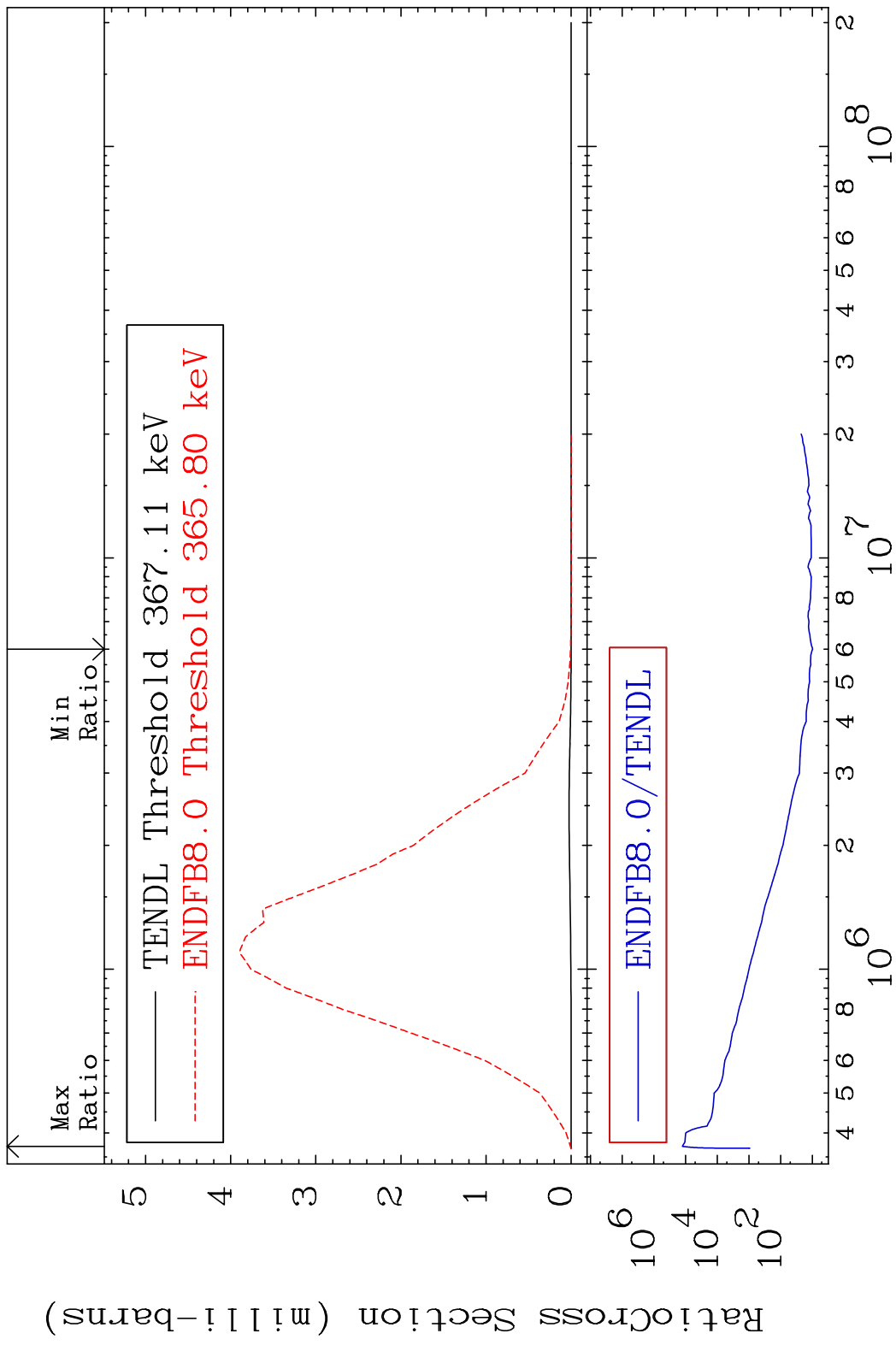
MAT 6428 MT= 72 (n,n') Level 64-Gd-153
 Cross Section -100.0 To -99.94%



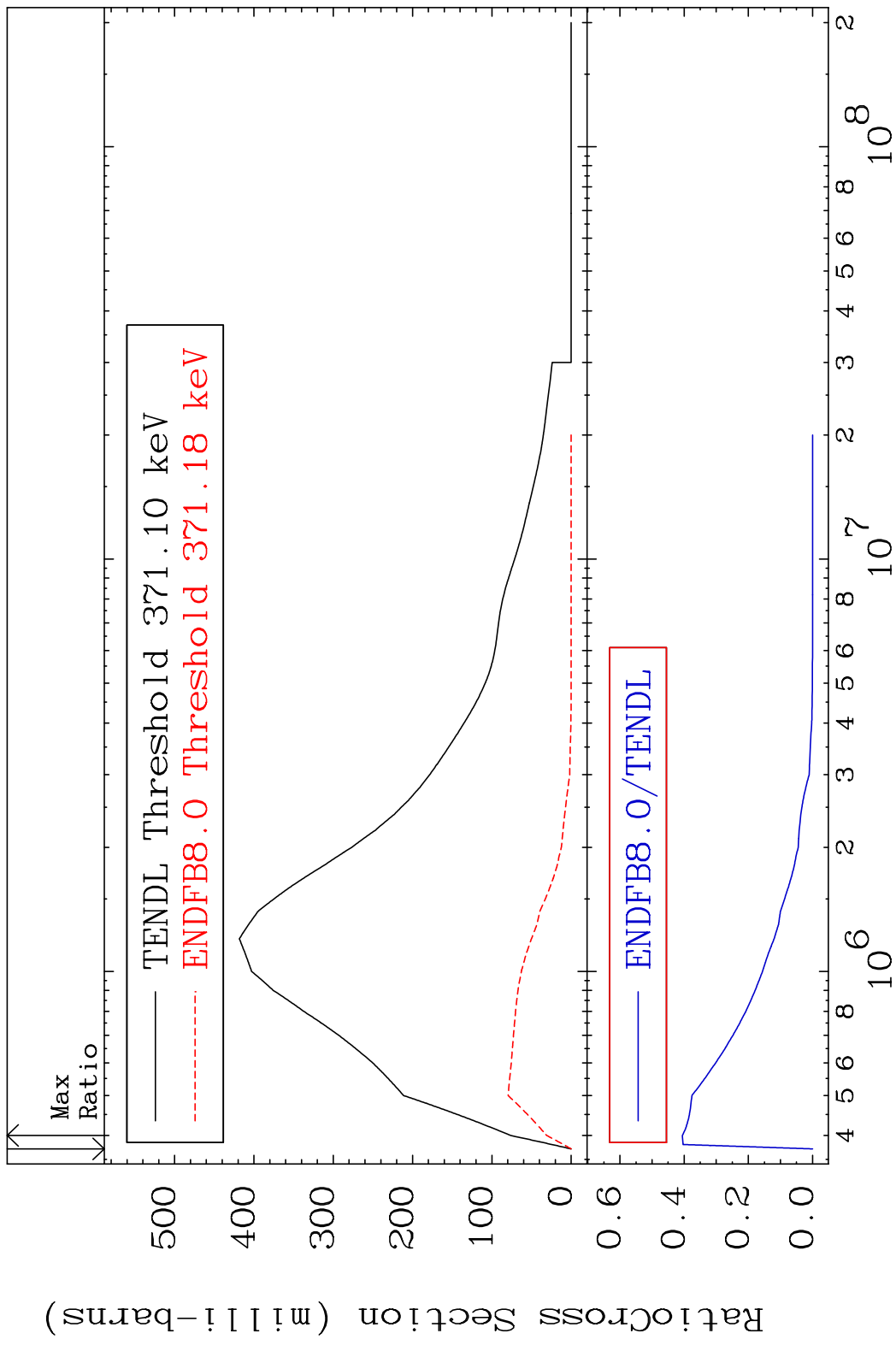
MAT 6428 MT= 73 (n,n') Level 64-Gd-153
 Cross Section -100.0 To 9999. %



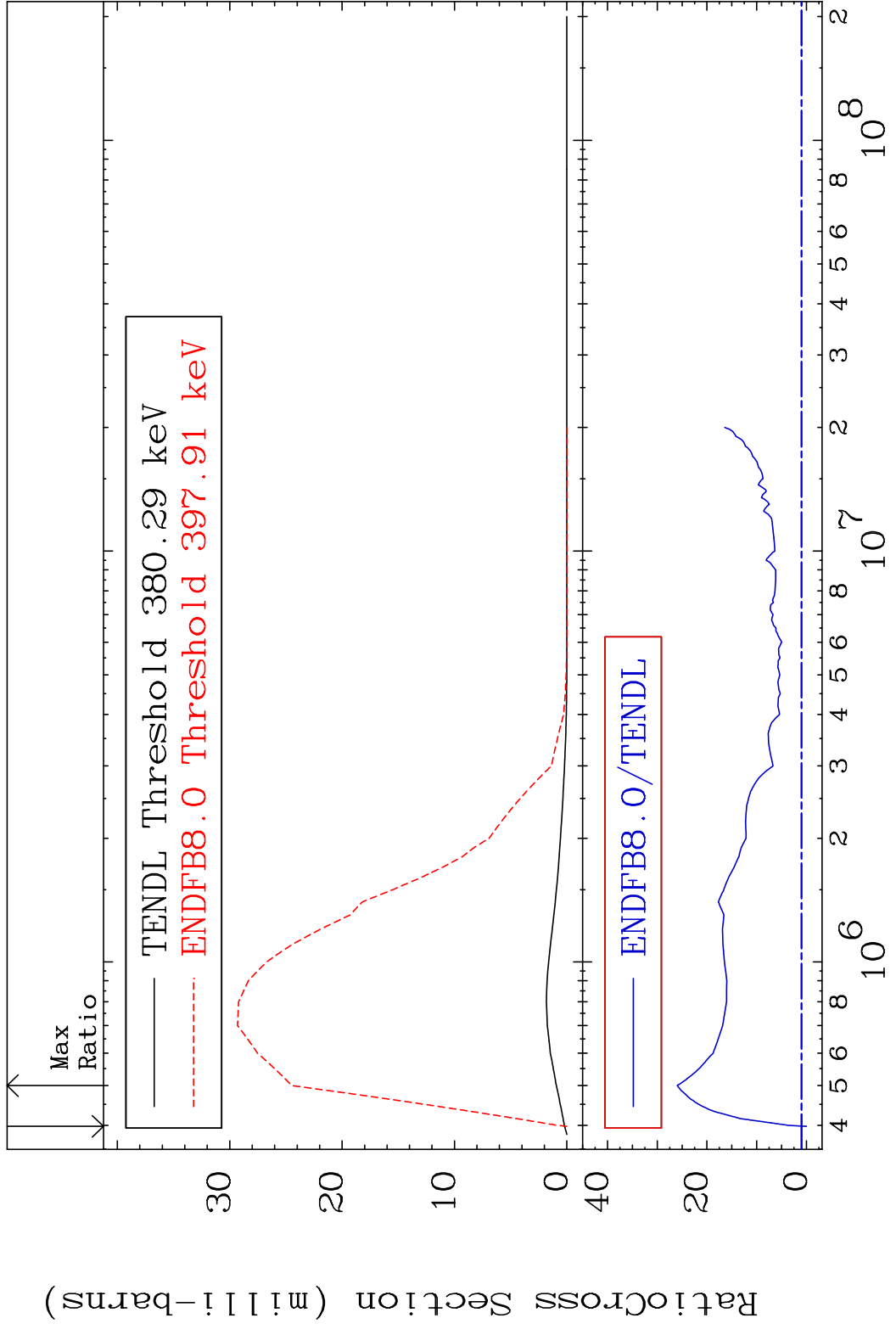
MAT 6428 MT= 74 (n,n') Level 64-Gd-153
 Cross Section 880.9 To 9999. %



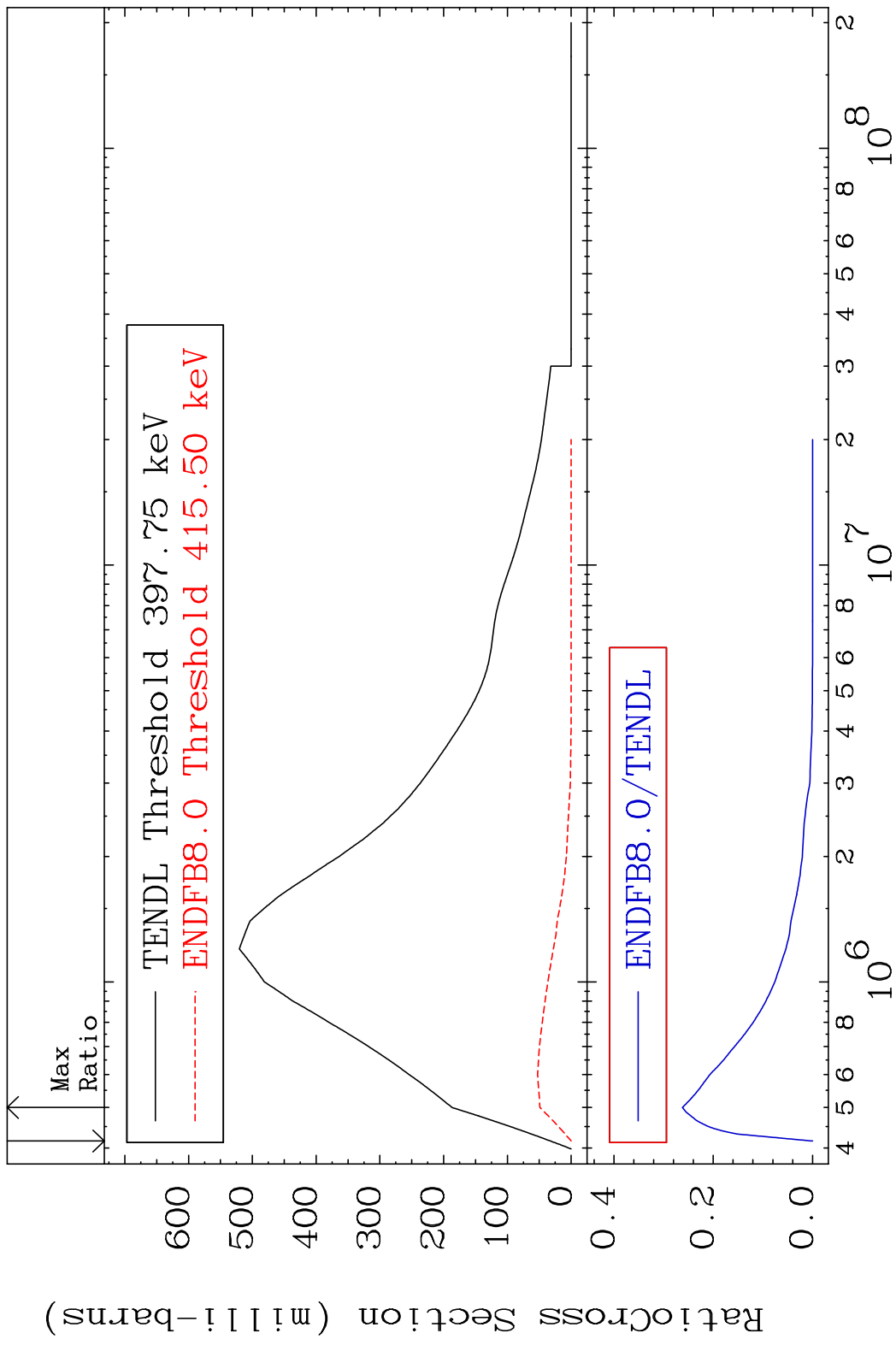
MAT 6428 MT= 75 (n,n') Level 64-Gd-153
 Cross Section -100.0 To -59.44%



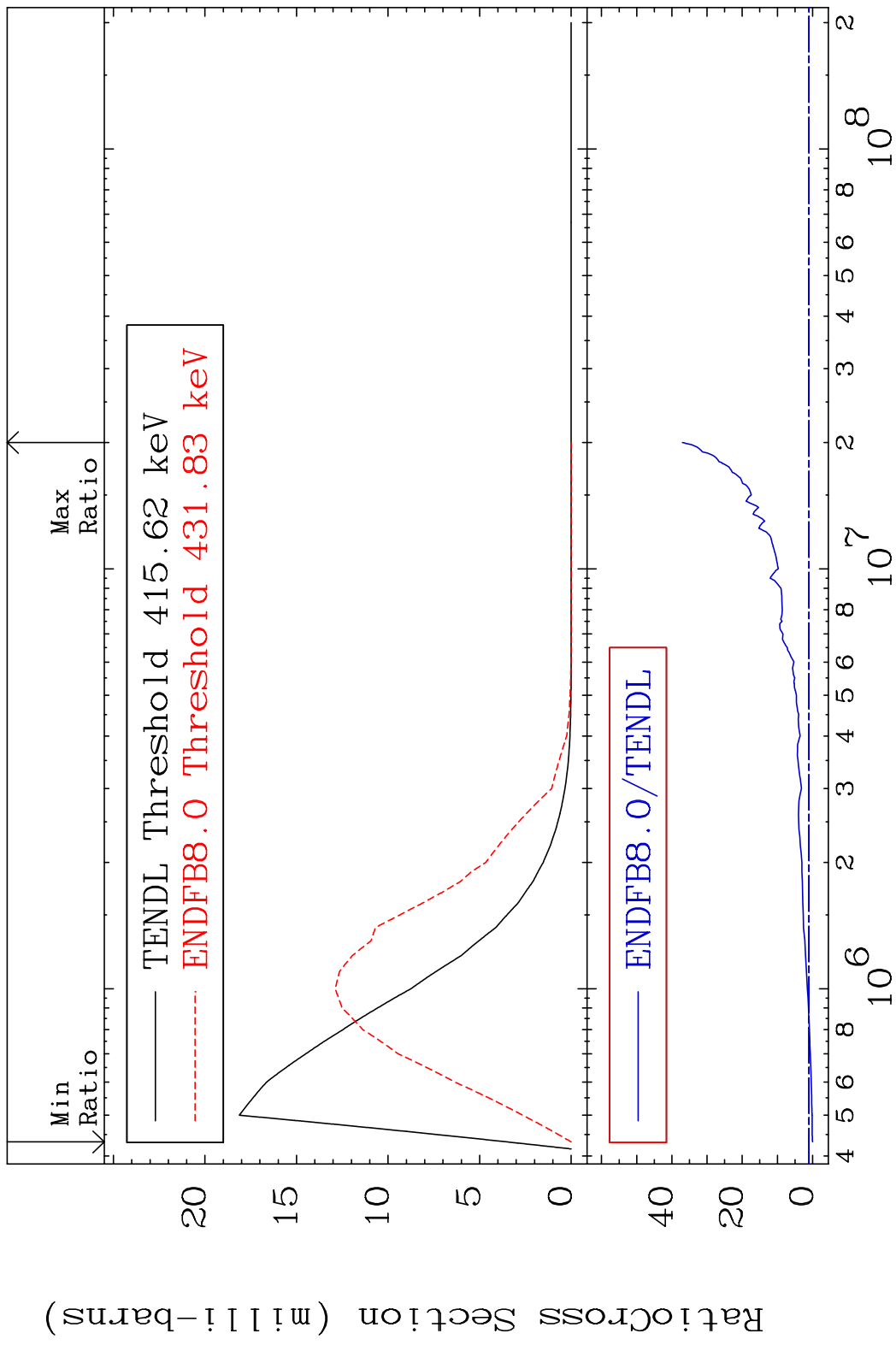
MAT 6428 MT= 76 (n,n') Level 64-Gd-153
 Cross Section -100.0 To 2499. %



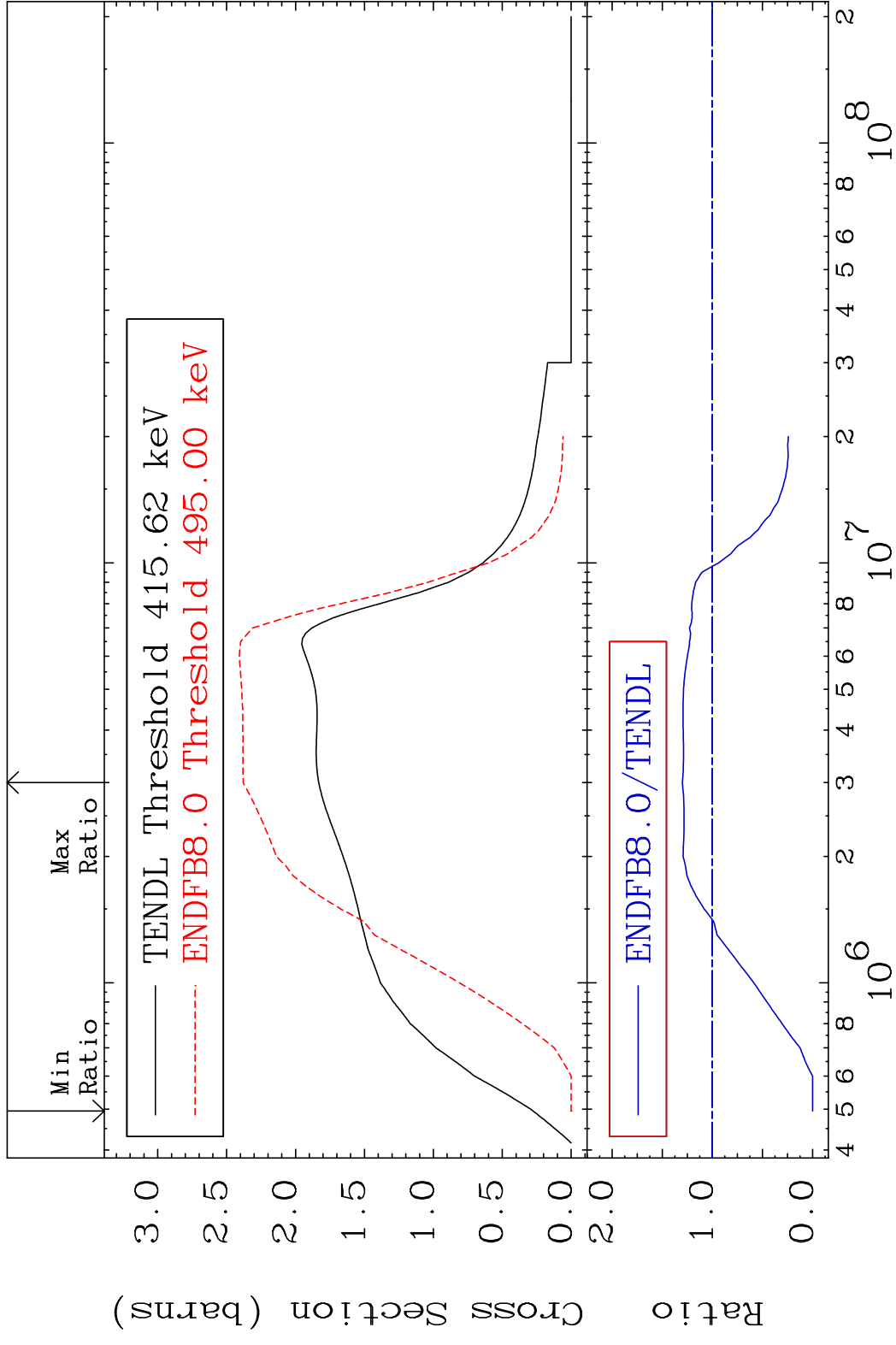
MAT 6428 MT= 77 (n, n') Level 64-Gd-153
 Cross Section -100.0 To -73.78%



MAT 6428 MT= 78 (n,n') Level 64-Gd-153
 Cross Section -100.0 To 3602. %



MAT 6428 (n,n') Continuum 64-Gd-153
 Cross Section -100.0 To 29.94 %

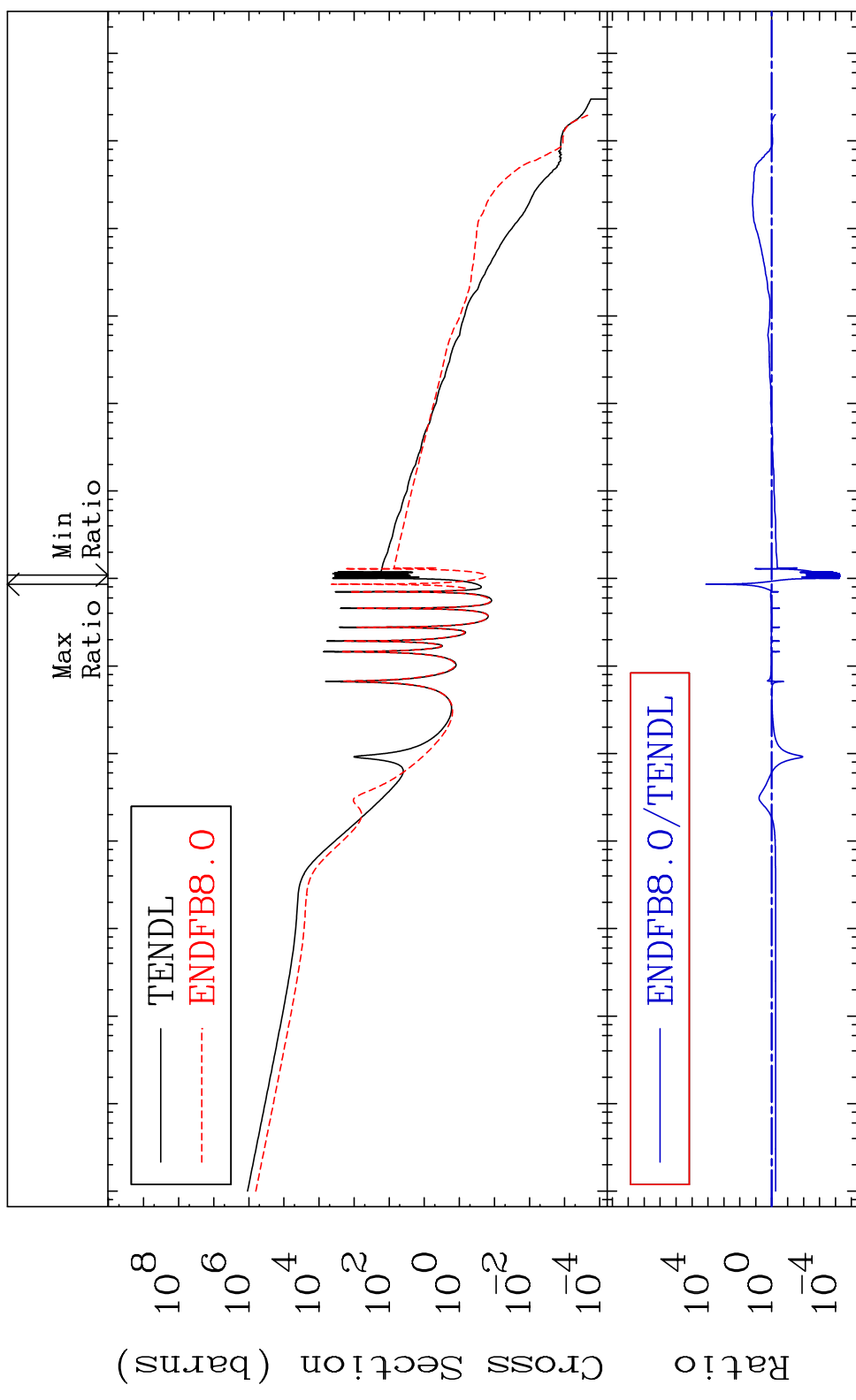


MAT 6428

64-Gd-153

(n, γ)

Cross Section -100.0 To 9999. %

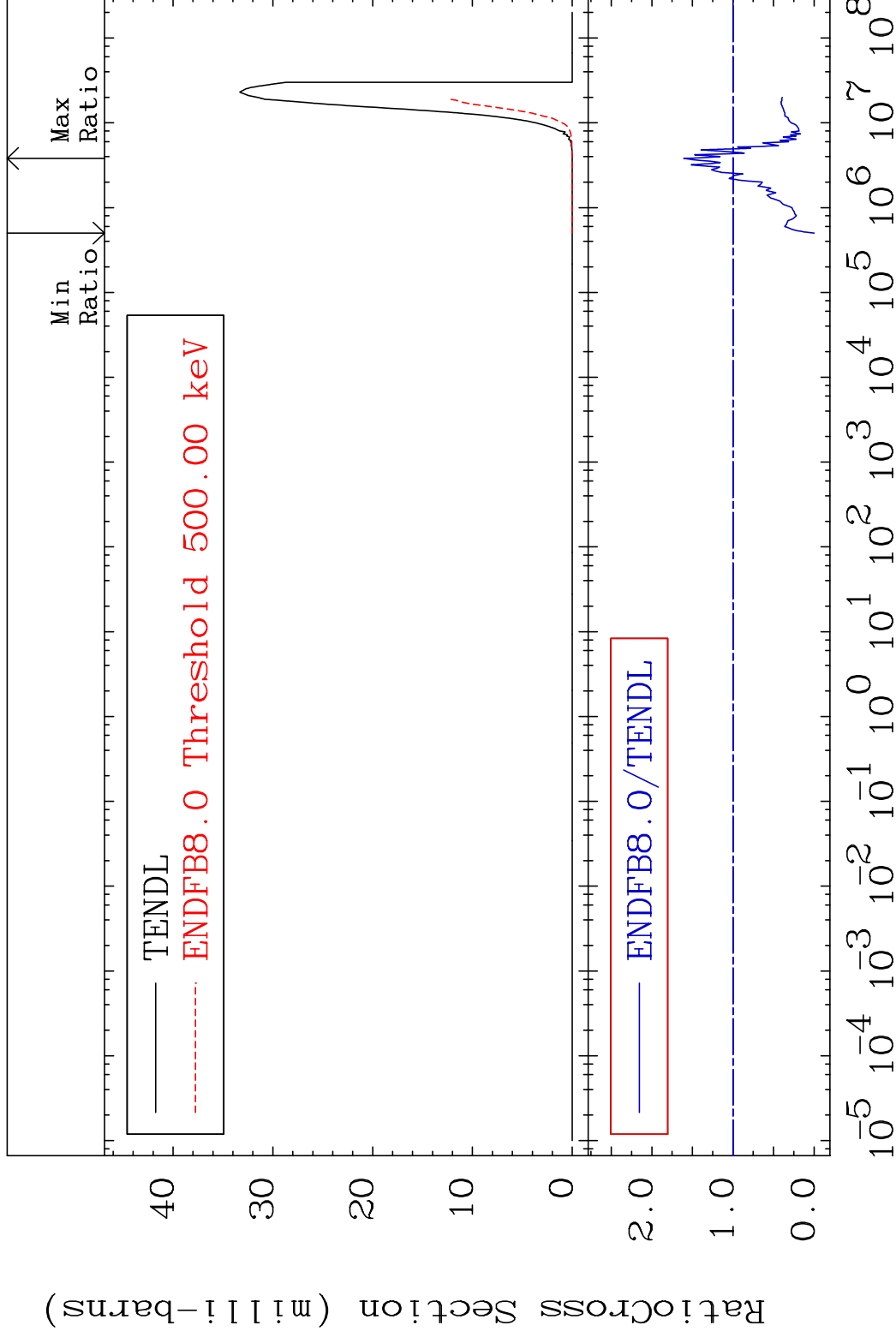


MAT 6428

(n, p)

64-Gd-153

Cross Section -100.0 To 60.77 %



40

Incident Energy (eV)

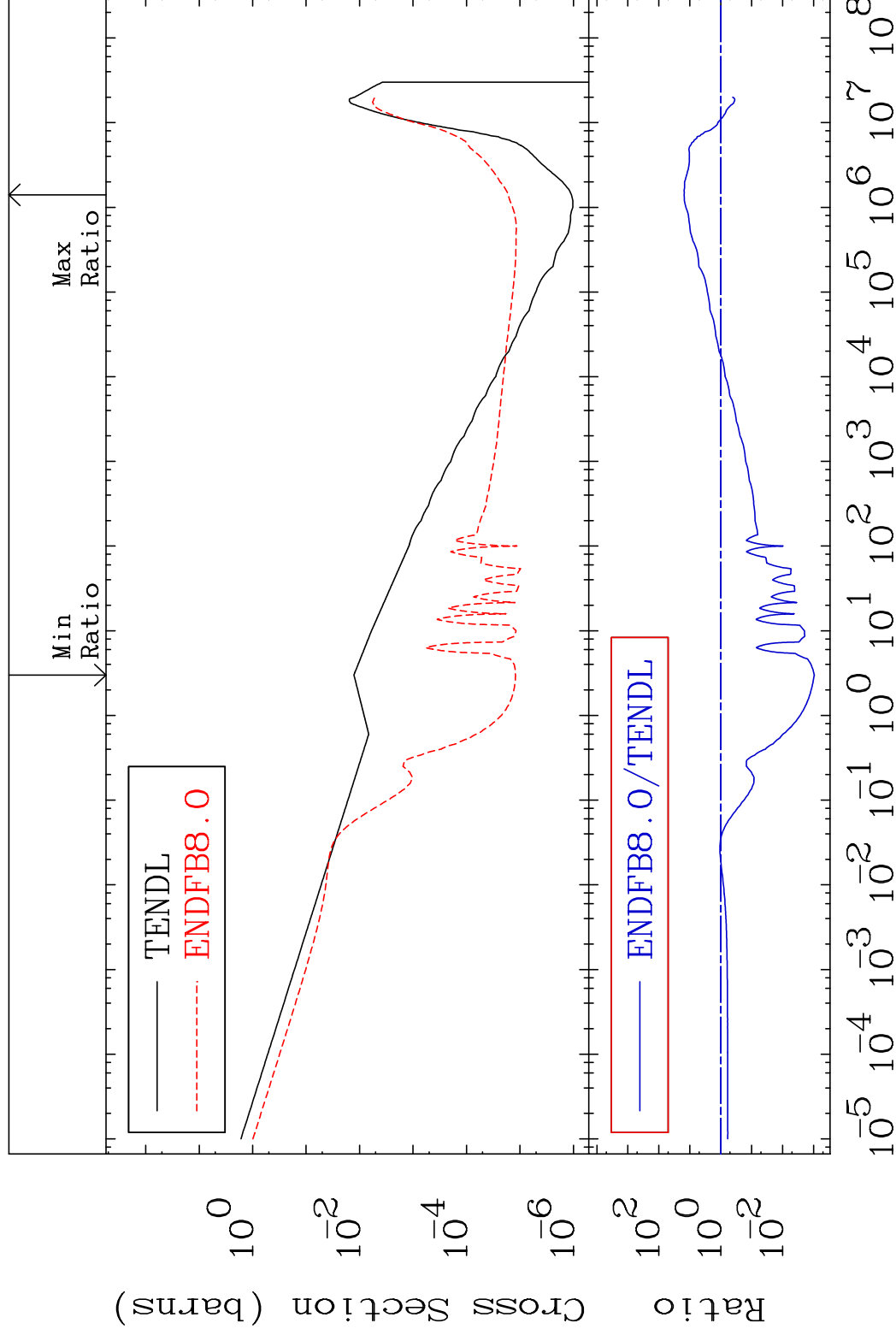
64-Gd-153

MAT 6428

(n, α)

64-Gd-153

Cross Section -99.90 To 1429. %



41

Incident Energy (eV)

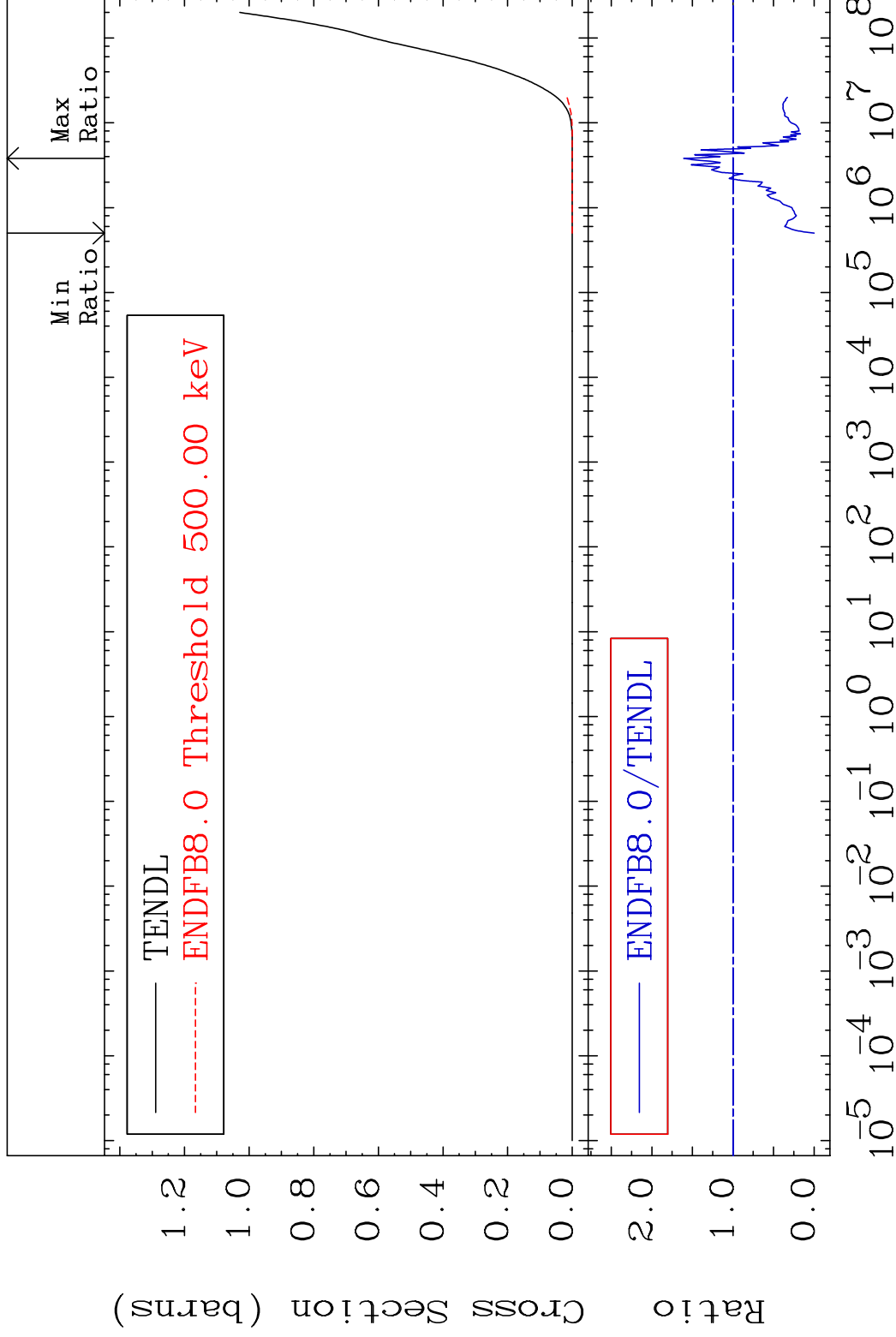
64-Gd-153

MAT 6428

Hydrogen Production

64-Gd-153

Cross Section -100.0 To 60.77 %



42

Incident Energy (eV)

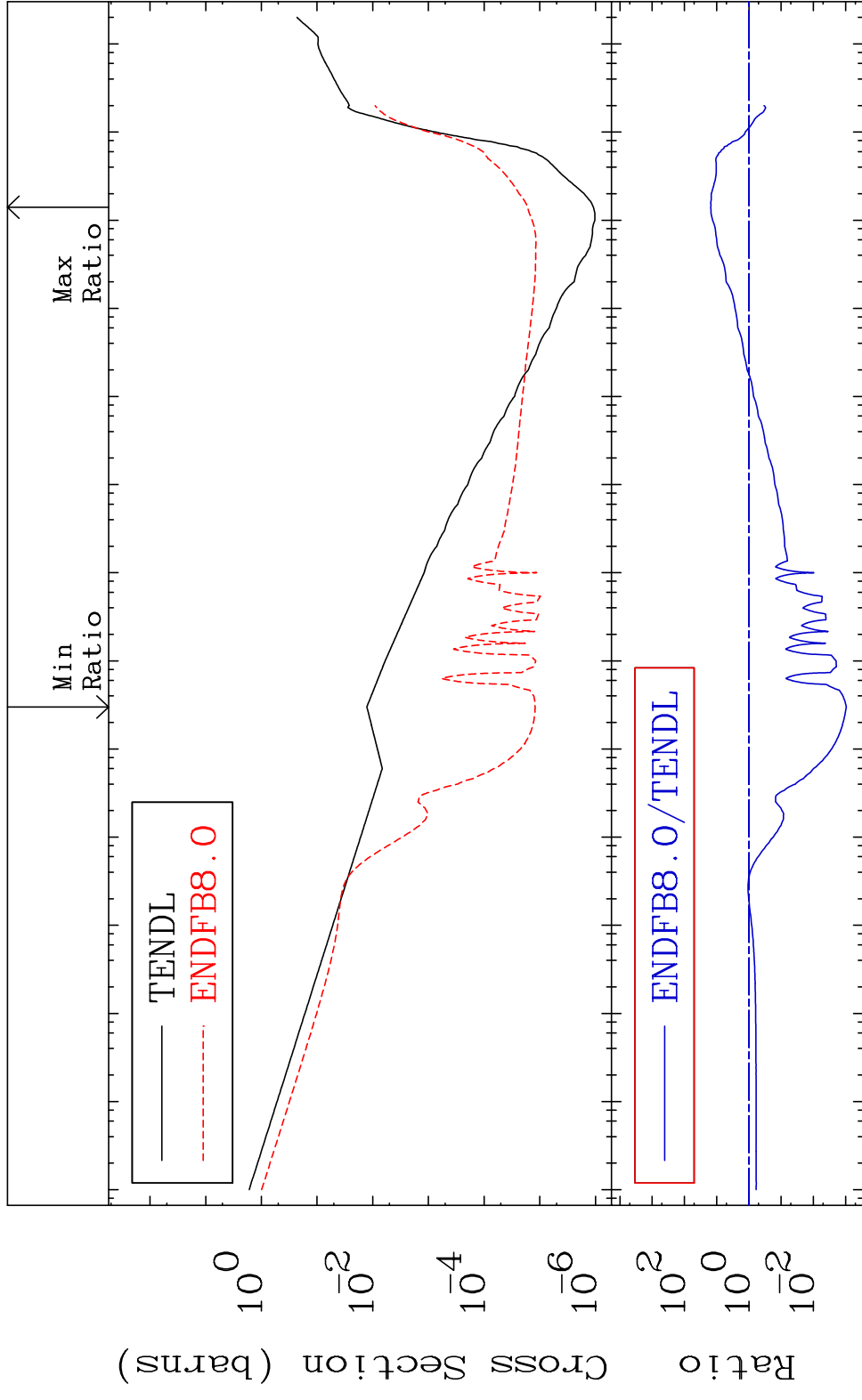
64-Gd-153

MAT 6428

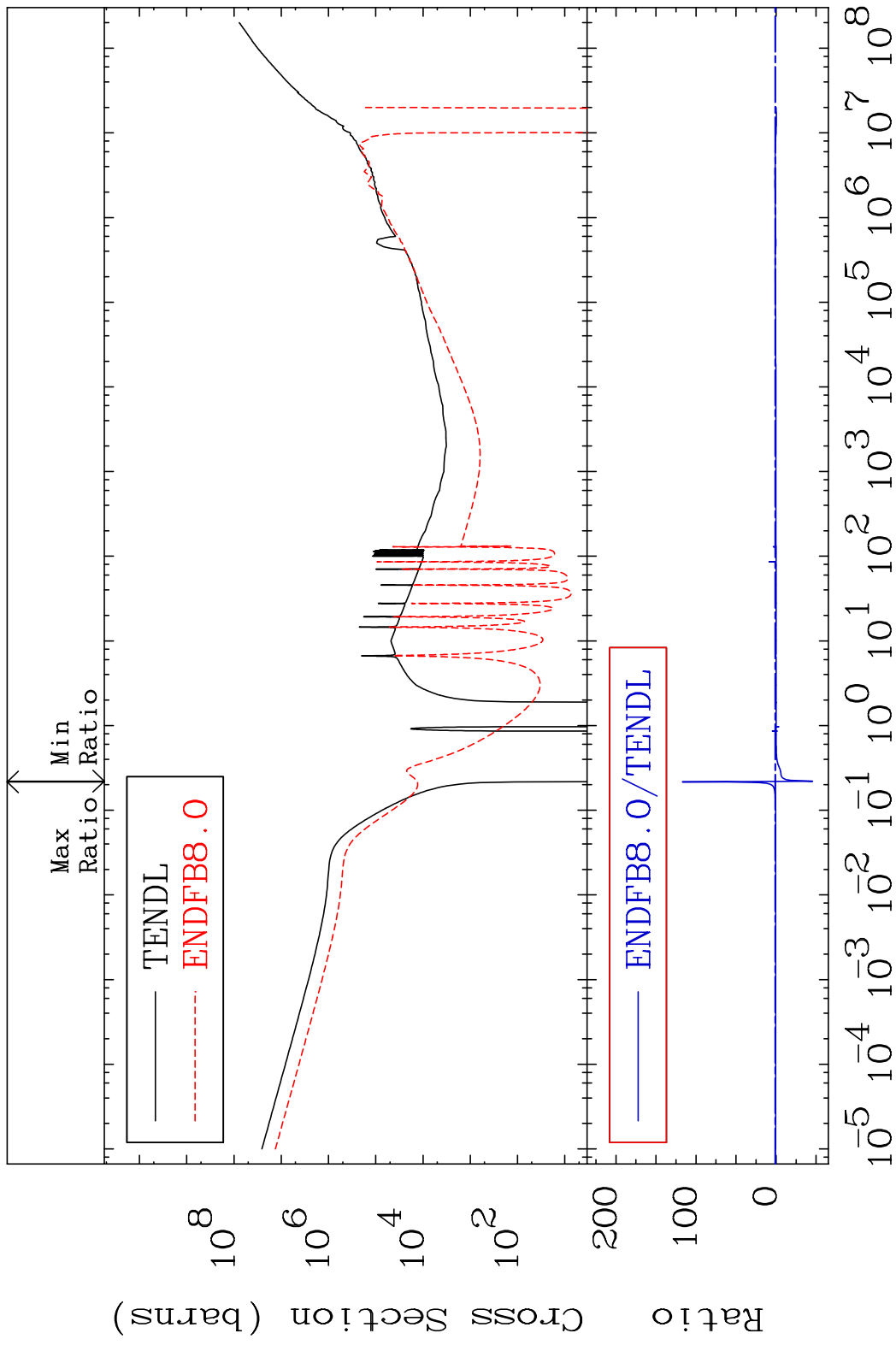
He-4 Production

64-Gd-153

Cross Section -99.90 To 1429. %



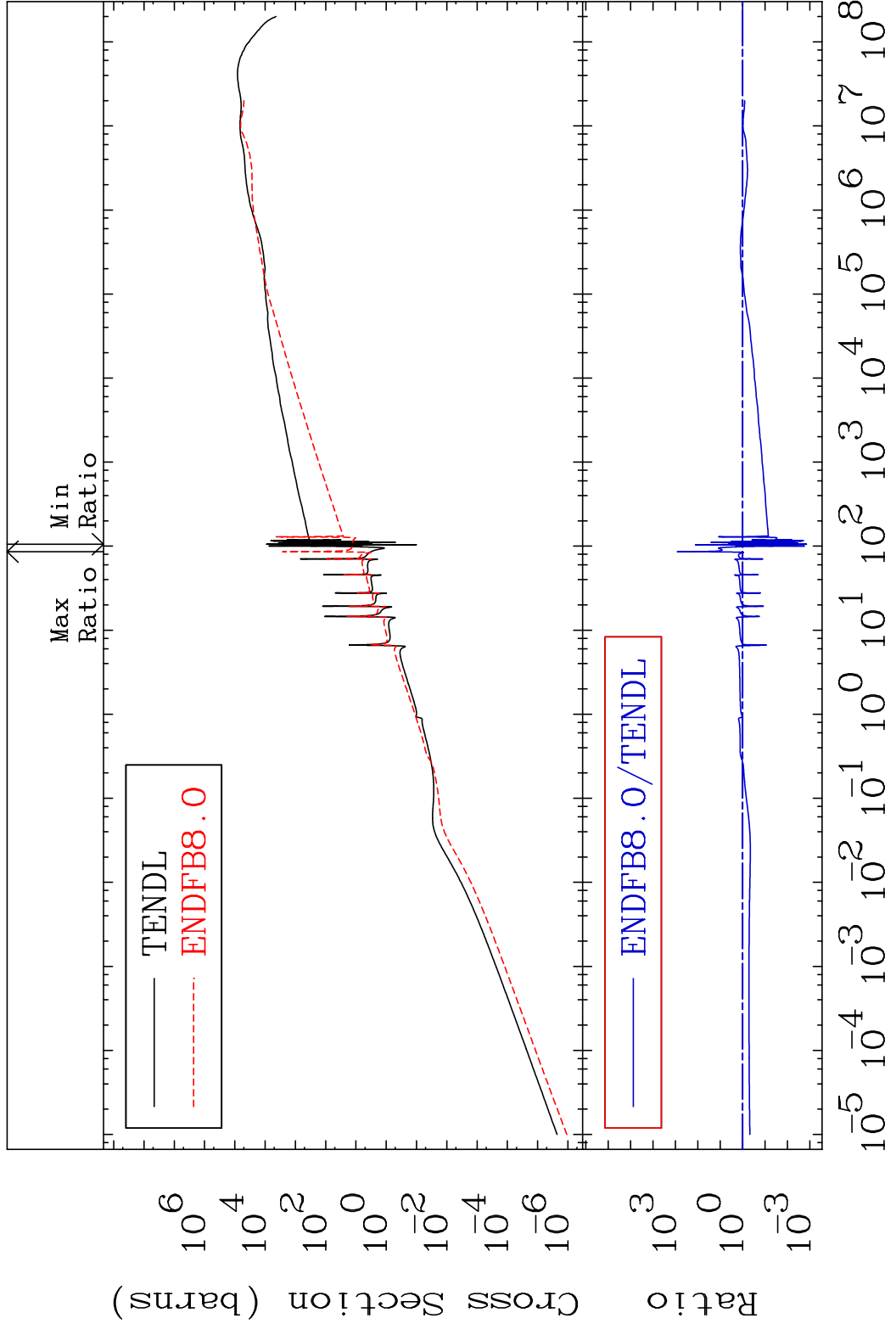
MAT 6428 Kerma total (eV-barns) 64-Gd-153
 Cross Section -4658. To 9999. %



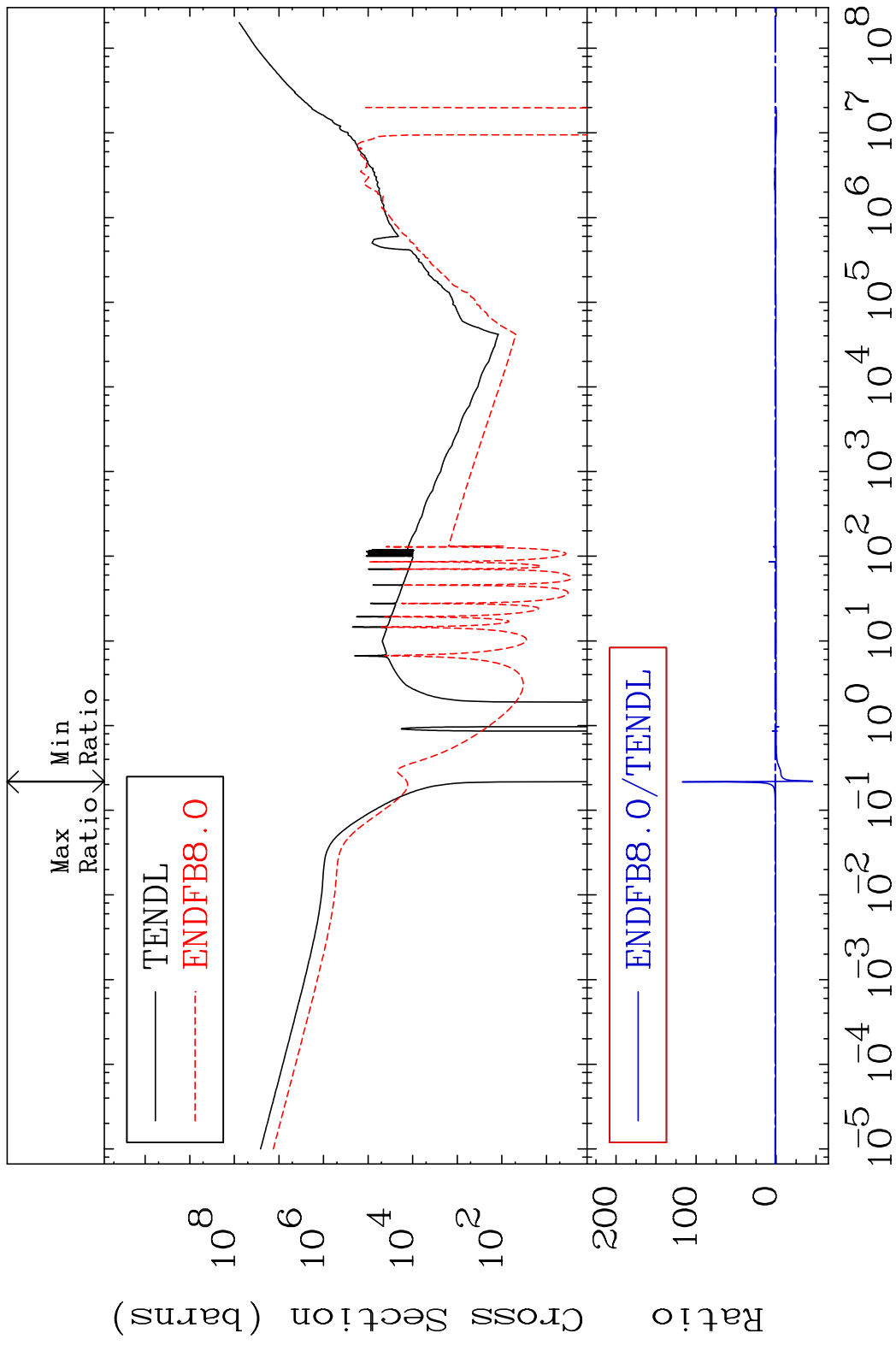
MAT 6428

Kerma elastic
Cross Section -99.86 To 9999. %

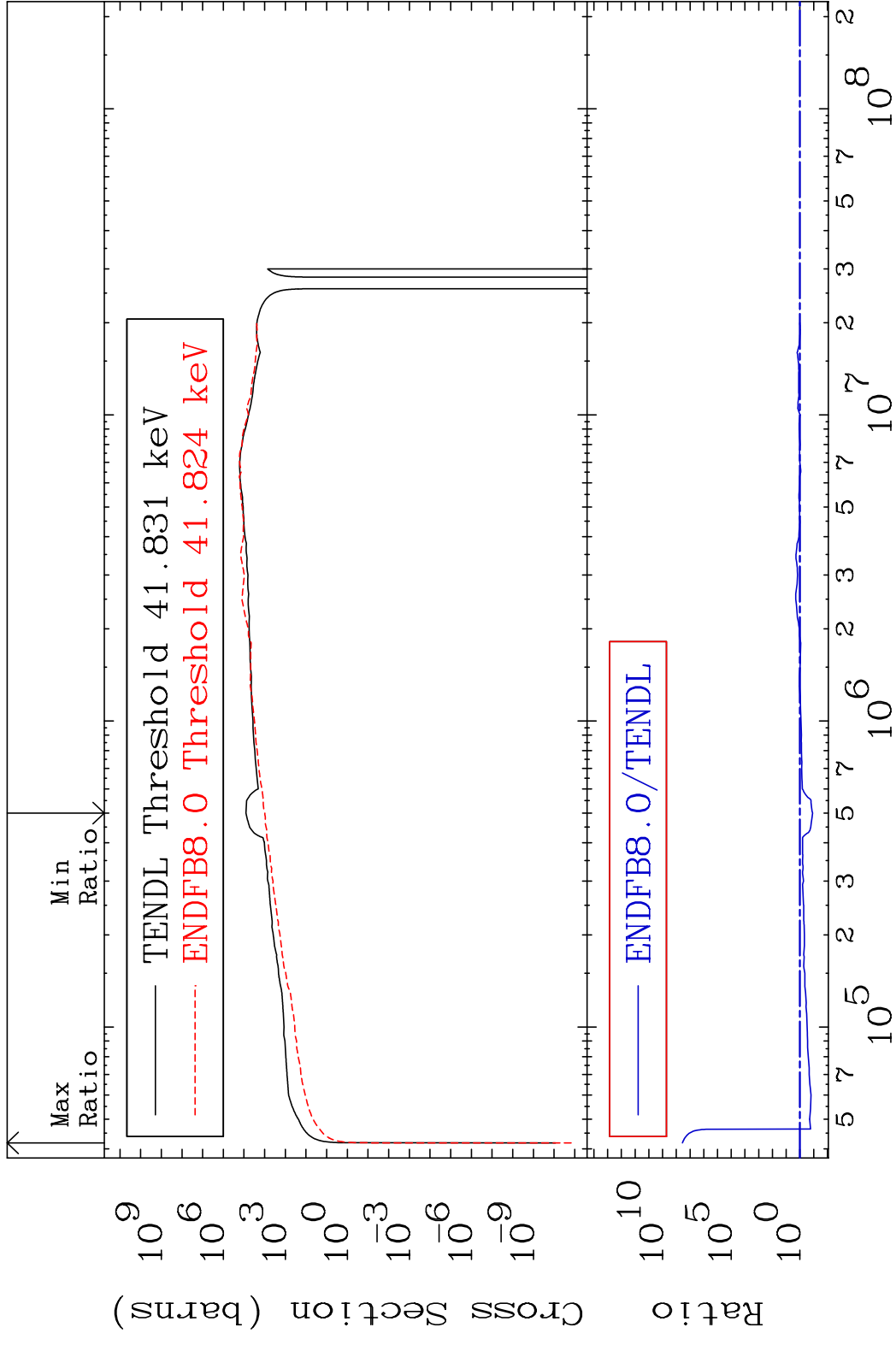
64-Gd-153
To 9999. %



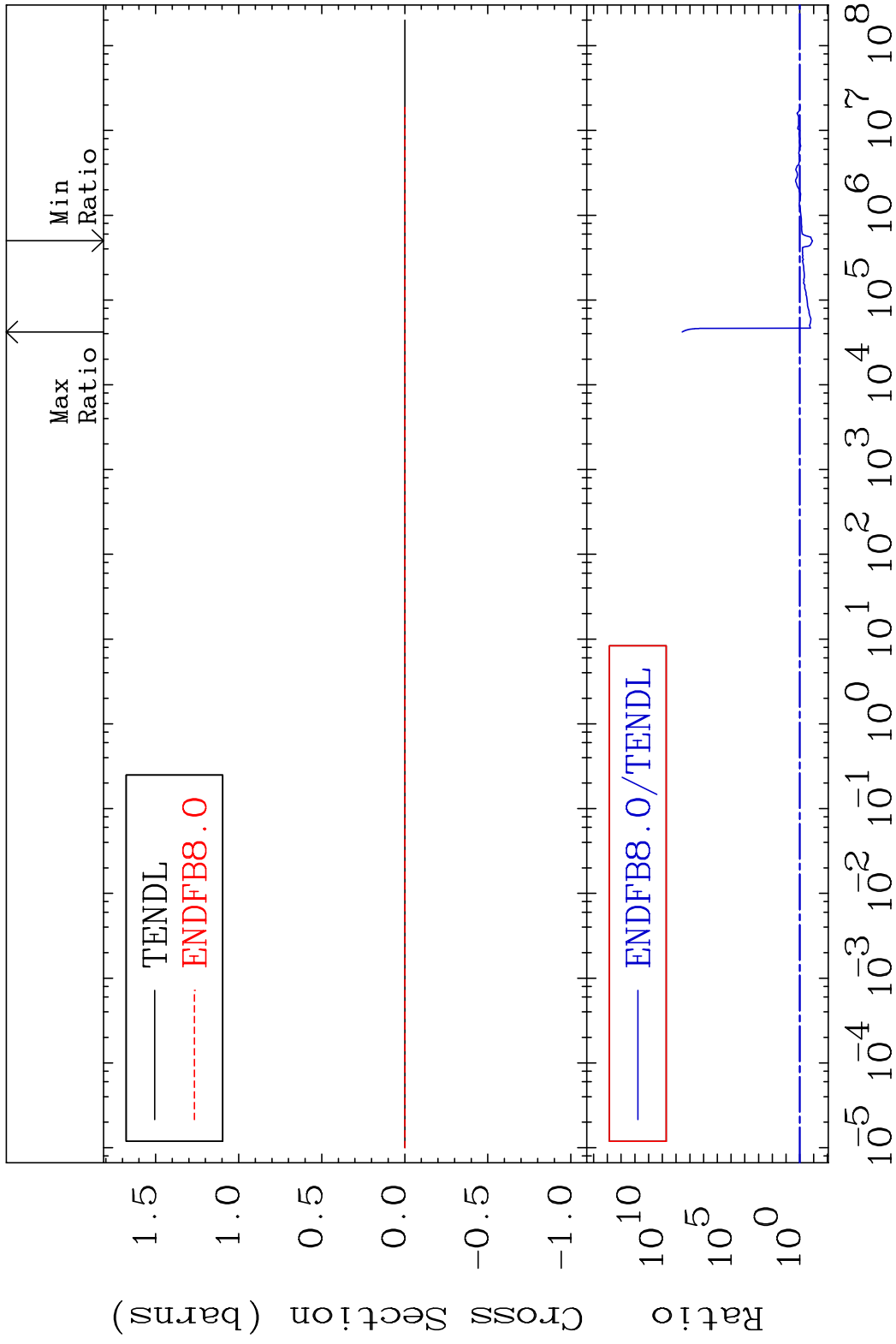
MAT 6428 Kerma non-elastic (all but mt2) 64-Gd-153
 Cross Section -4658. To 9999. %



MAT 6428 Kerma inelastic (mt51-91) 64-Gd-153
 Cross Section -87.94 To 9999. %

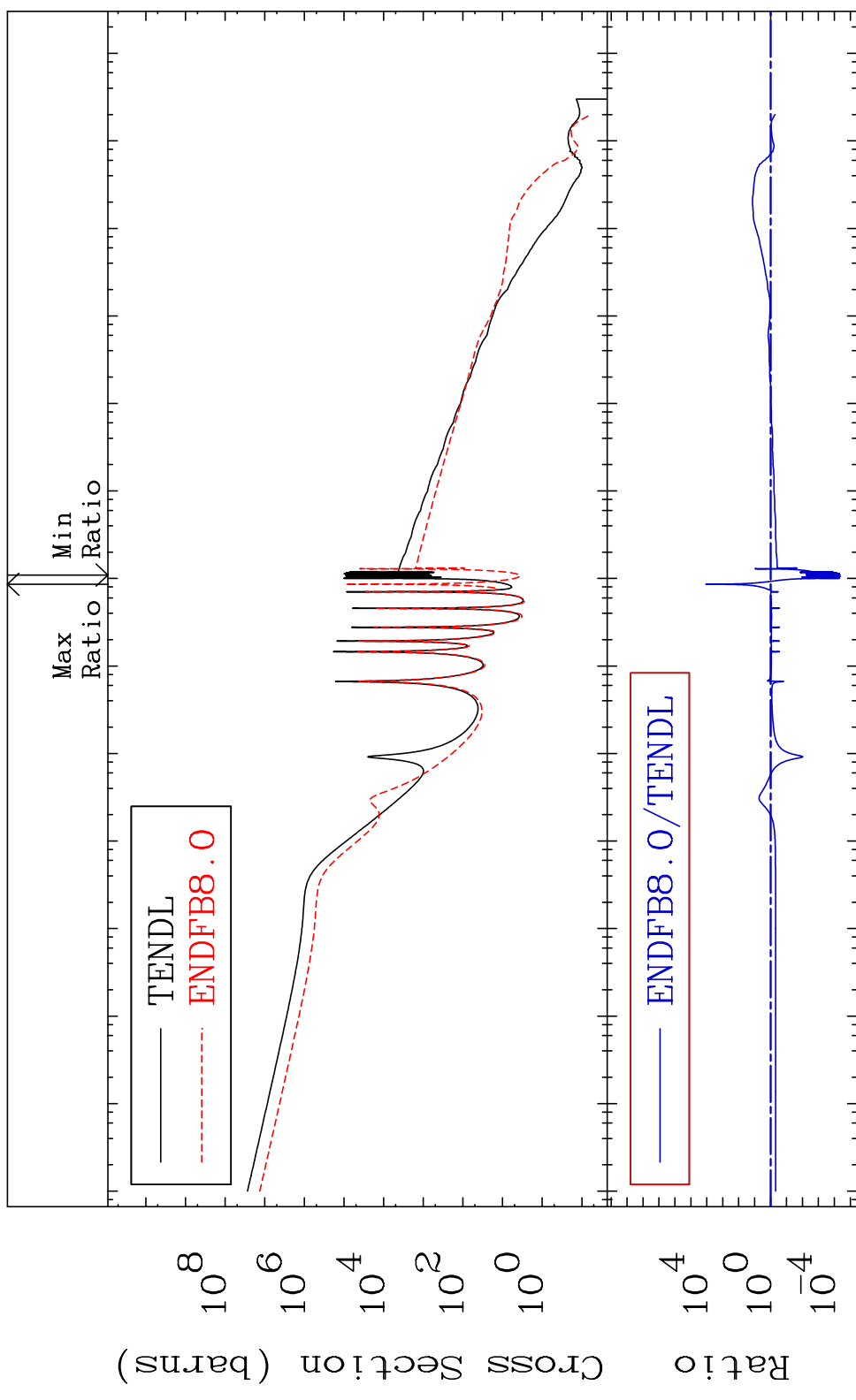


MAT 6428 Kerma fission (mt18 or mt19-20-21-38) 64-Gd-153
 Cross Section -87.94 To 9999. %



MAT 6428

Kerma capture (mt102) 64-Gd-153
Cross Section -100.0 To 9999. %

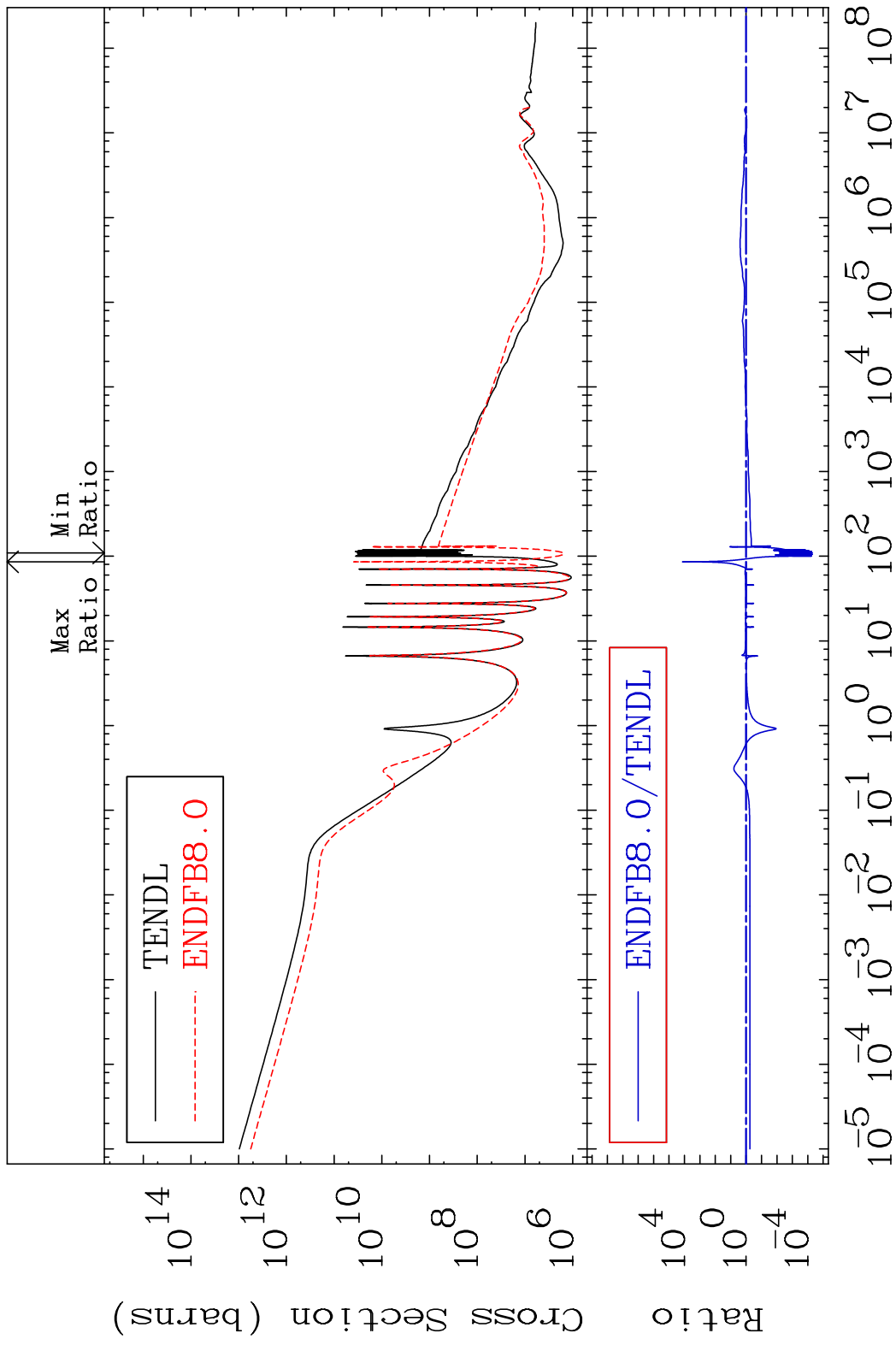


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Incident Energy (eV)

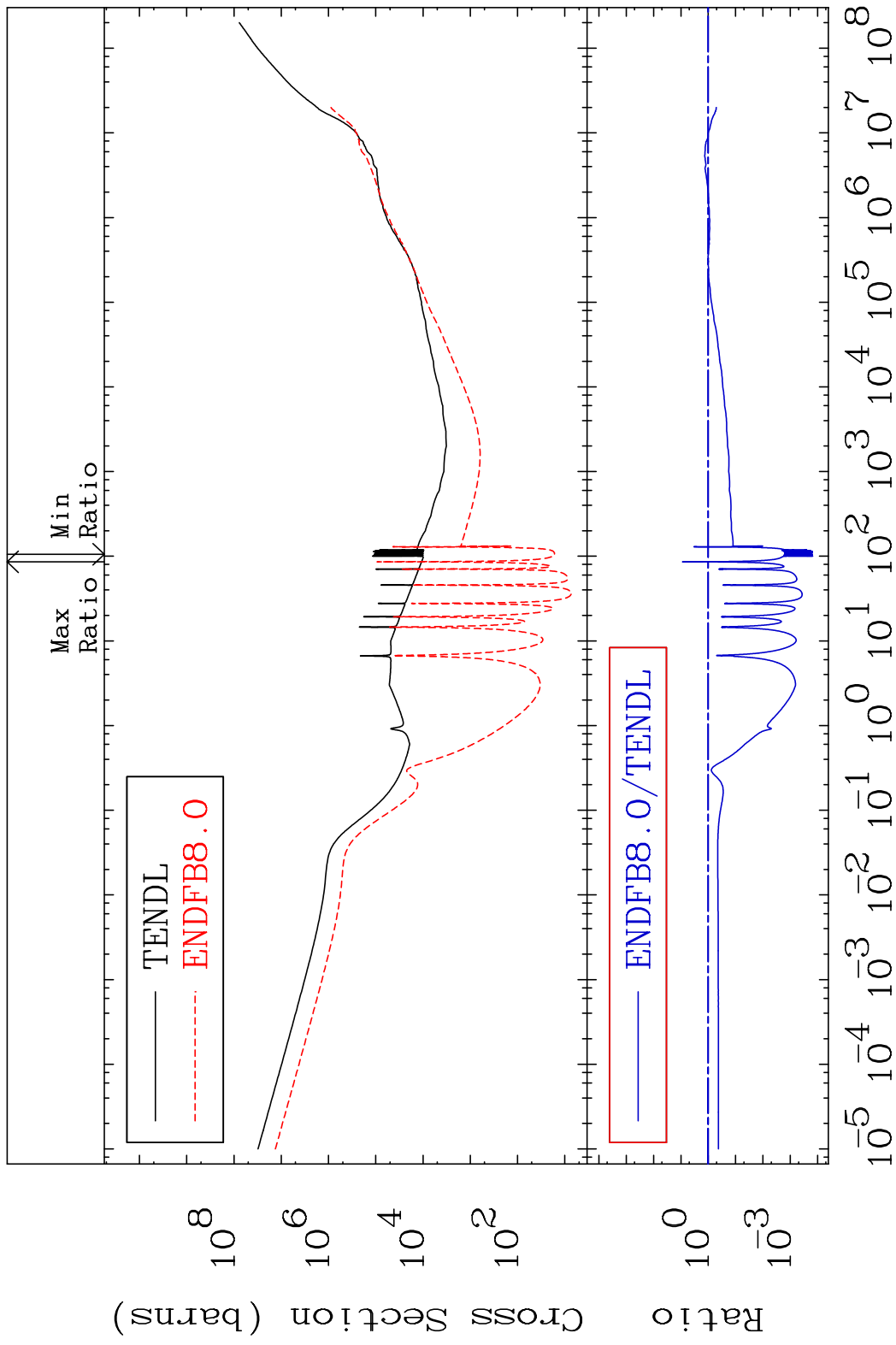
64-Gd-153

MAT 6428 Total photon (eV-barns) 64-Gd-153
 Cross Section -100.0 To 9999. %

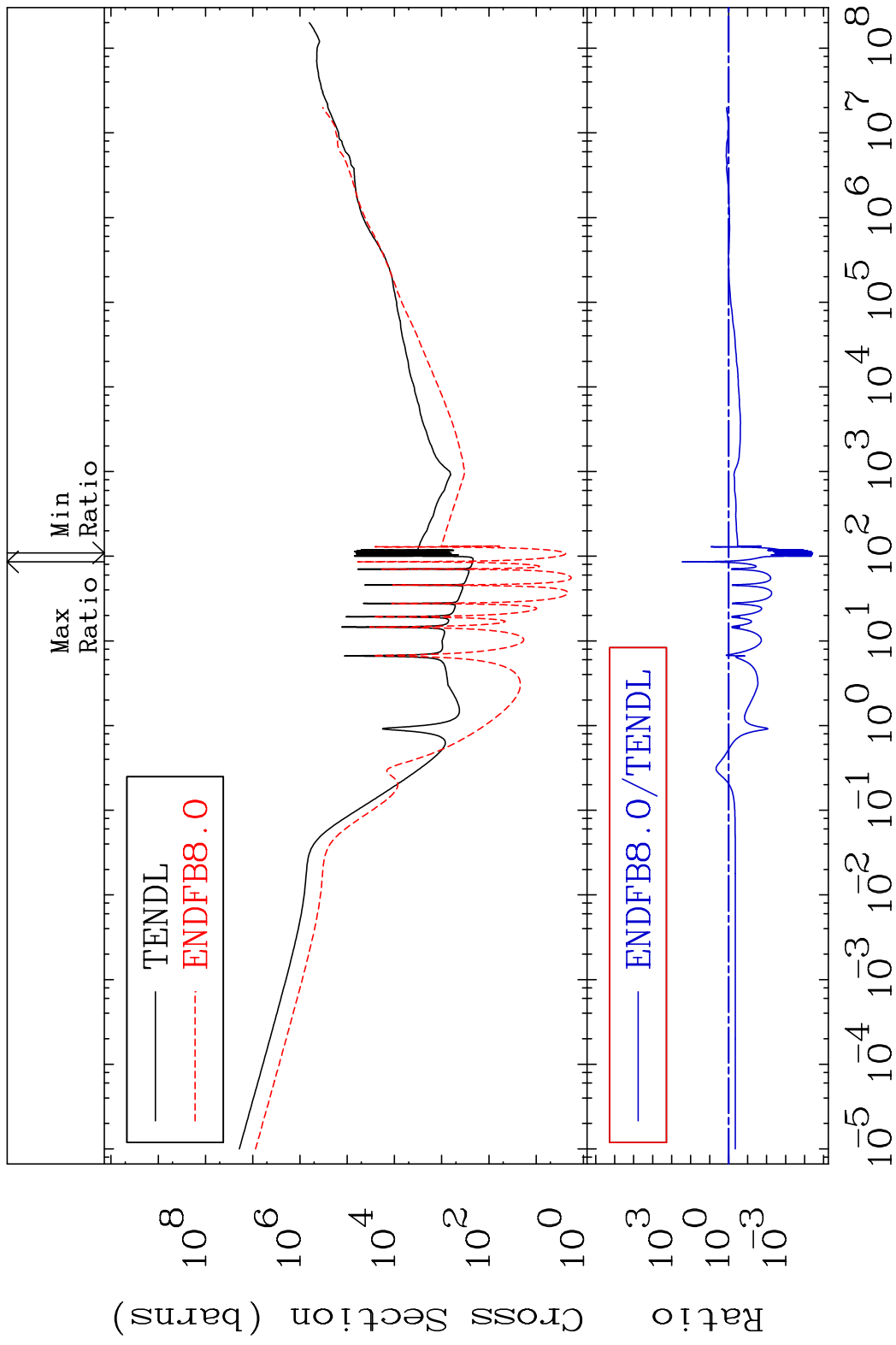


50 Incident Energy (eV) 64-Gd-153

MAT 6428 Total kinematic kerma (high limit) 64-Gd-153
 Cross Section -99.98 To 785.4 %



MAT 6428 Dpa total (eV-barns) 64-Gd-153
 Cross Section -100.0 To 9999. %

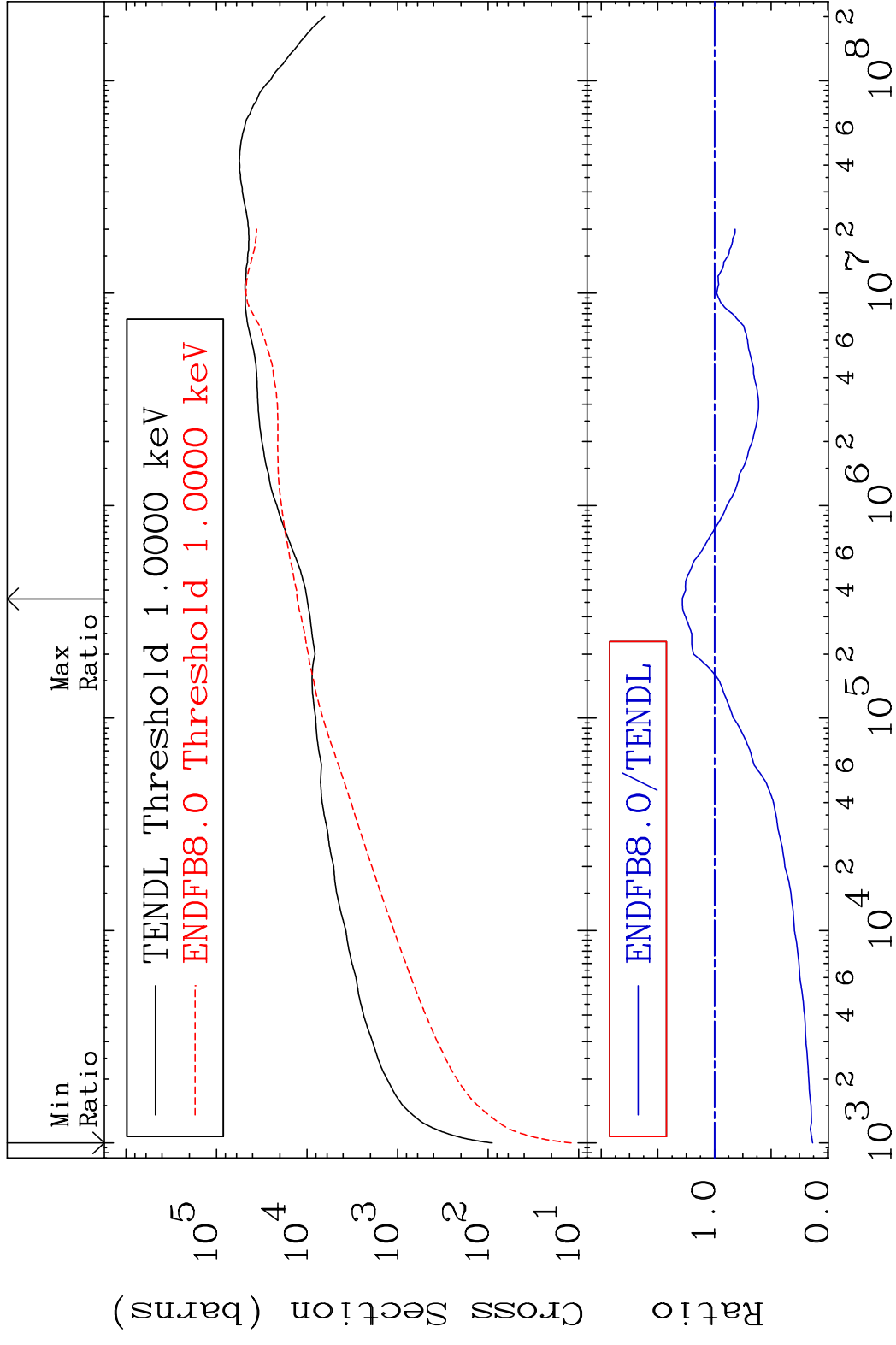


MAT 6428

Dpa elastic (mt2)

64-Gd-153

Cross Section -86.58 To 28.37 %

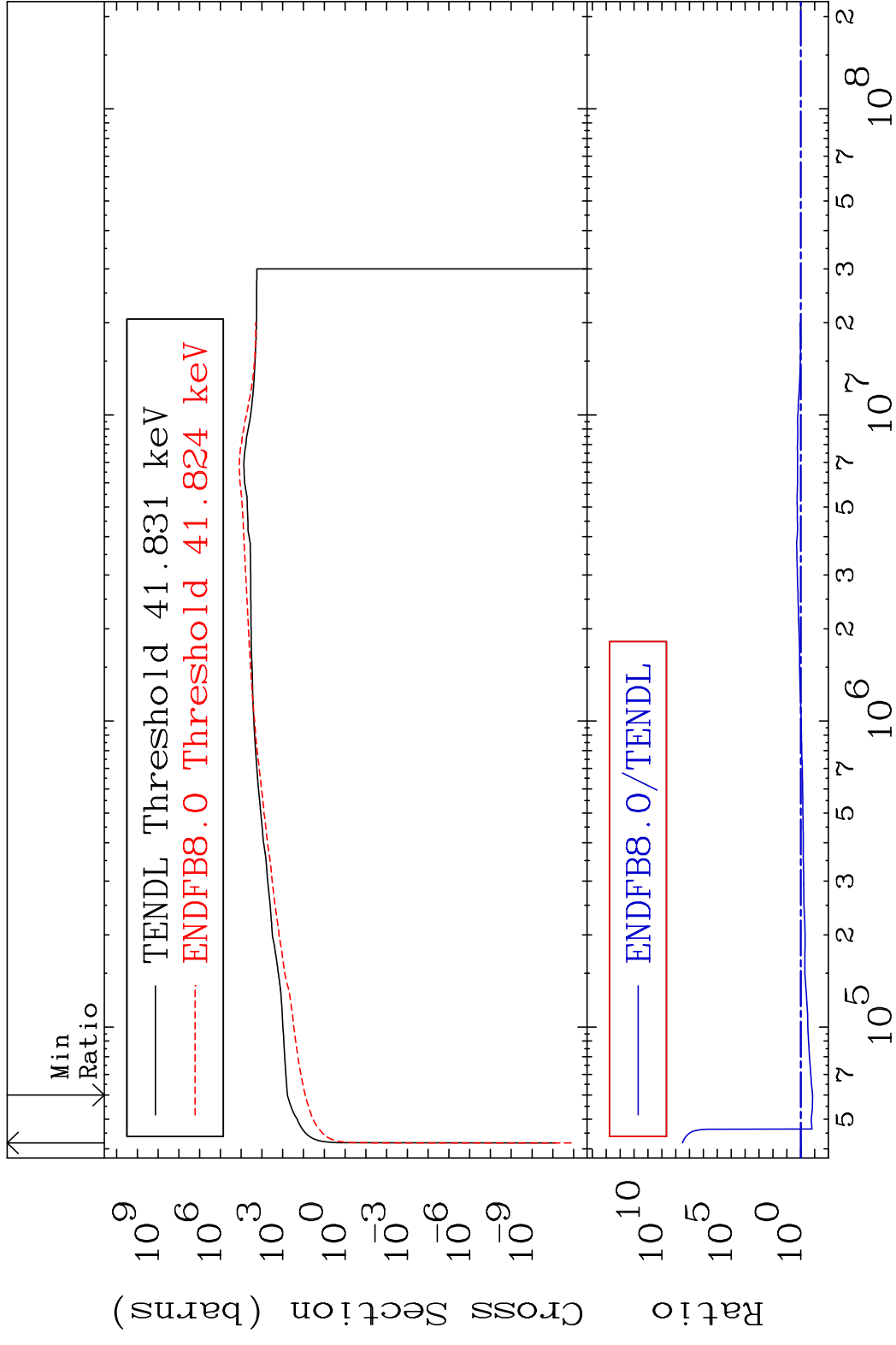


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Incident Energy (eV)

64-Gd-153

MAT 6428 Dpa inelastic (mt51-91) 64-Gd-153
 Cross Section -86.09 To 9999. %



MAT 6428 Dpa disappearance (mt102 -120) 64-Gd-153
 Cross Section -100.0 To 9999. %

