

Program Complot
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

U.S.A.

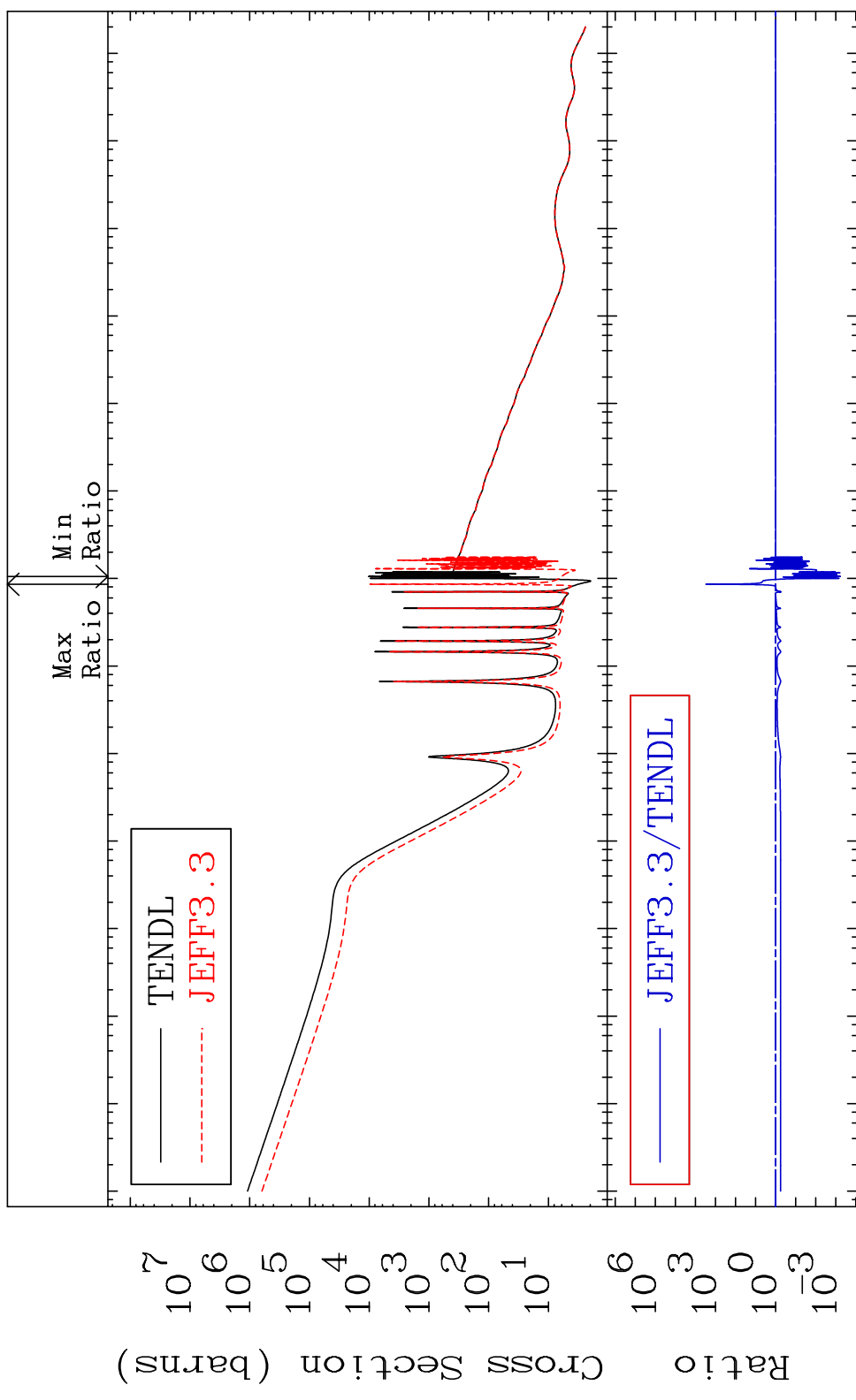
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 6428

Total Cross Section -99.94 To 9999. %
64-Gd-153



Incident Energy (eV) 64-Gd-153

1

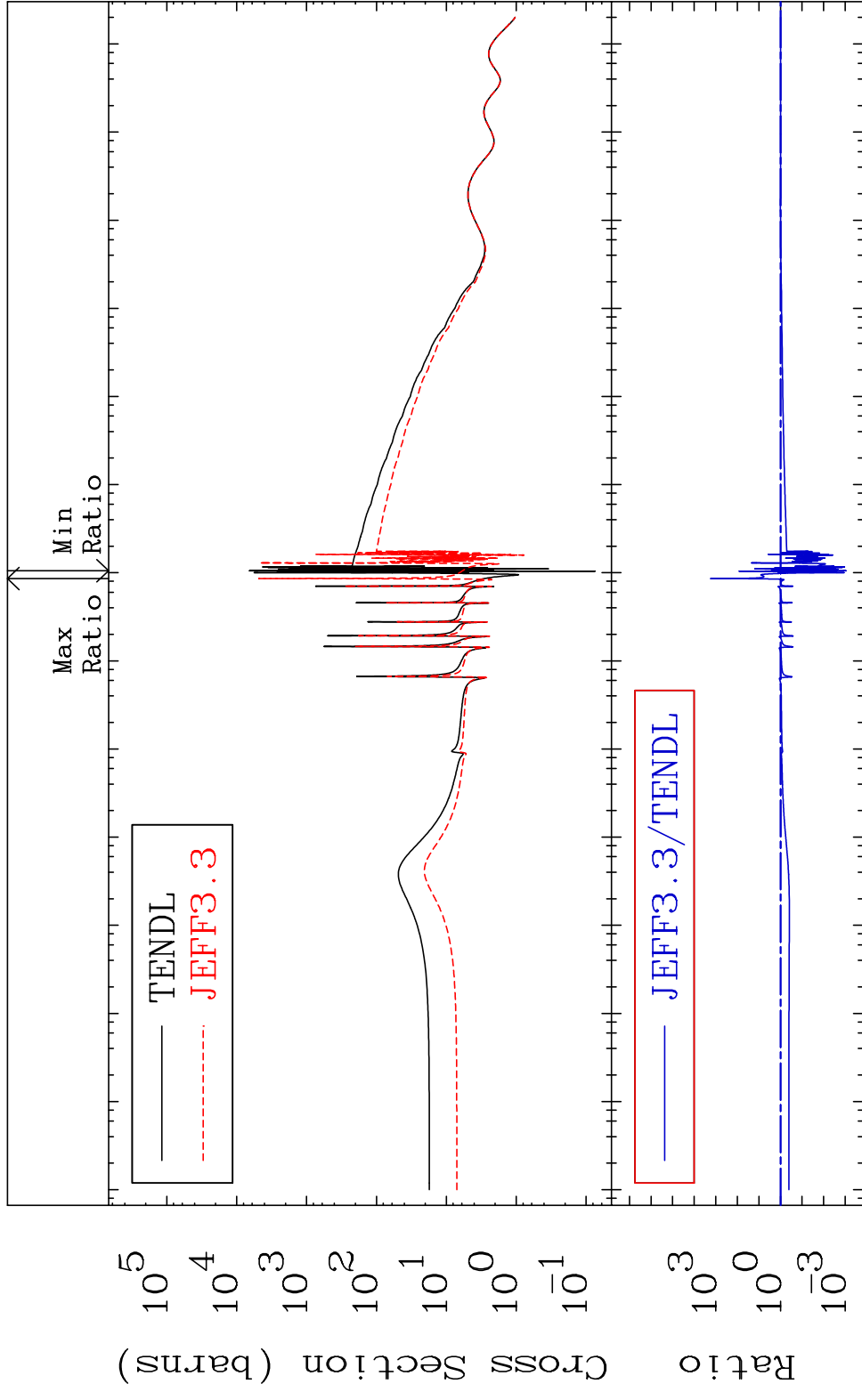
MAT 6428

Elastic

64-Gd-153

Cross Section

-99.91 To 9999. %



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

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

2

Incident Energy (eV)

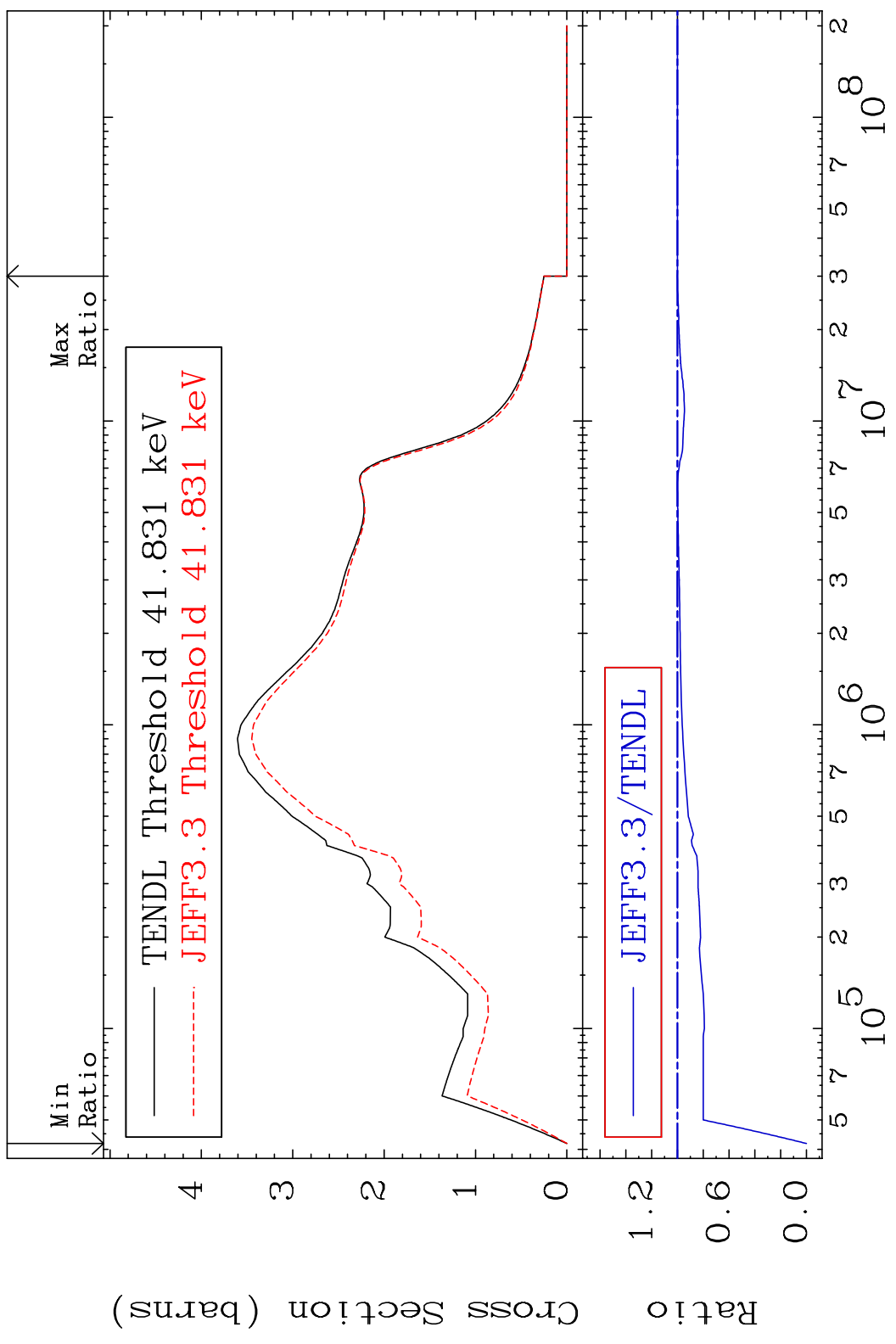
64-Gd-153

MAT 6428

Inelastic

64-Gd-153

Cross Section -100.0 To 0.137 %



3

Incident Energy (eV)

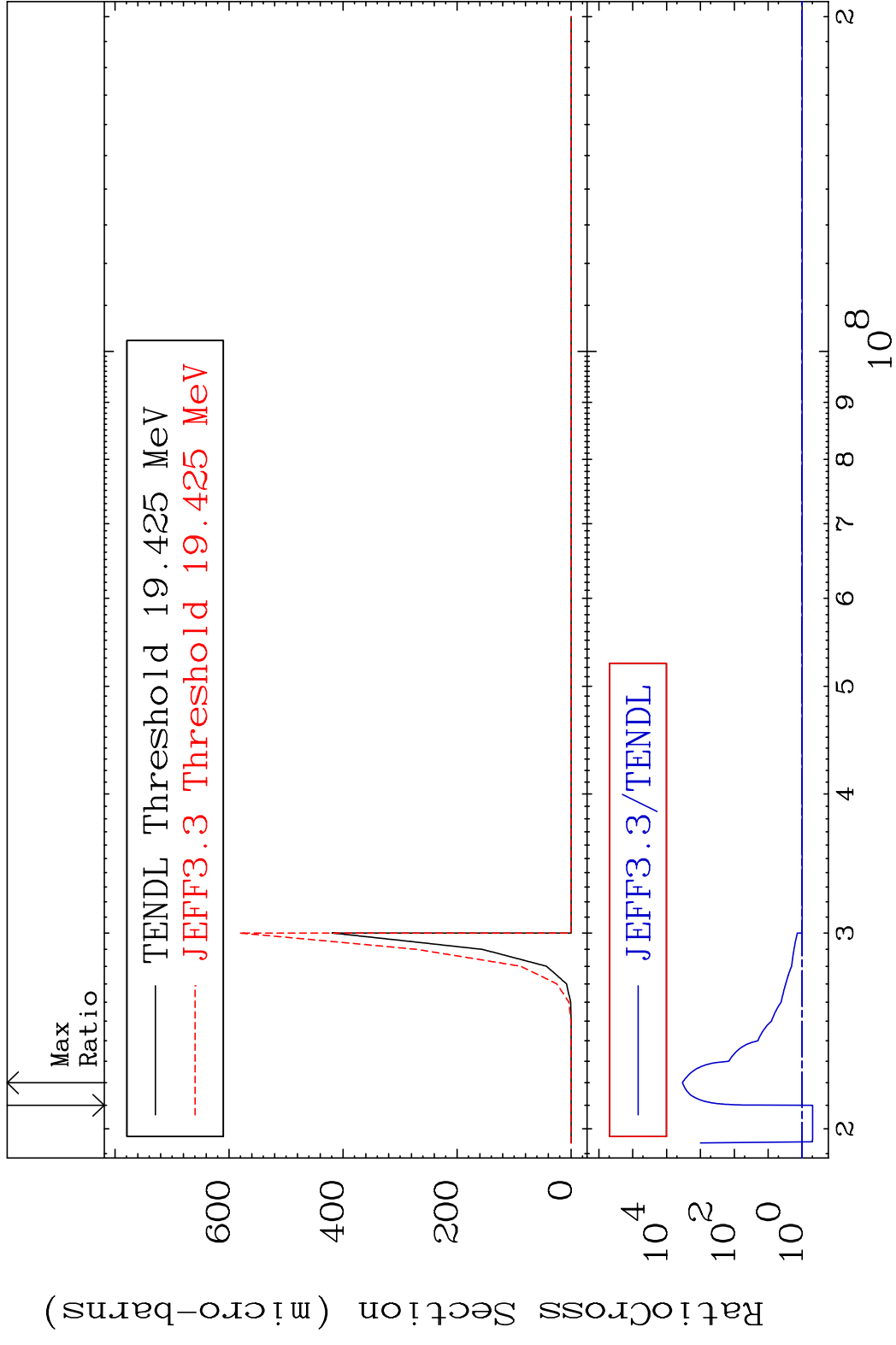
64-Gd-153

MAT 6428

(n,2n) d

64-Gd-153

Cross Section -50.82 To 9999. %



4

Incident Energy (eV)

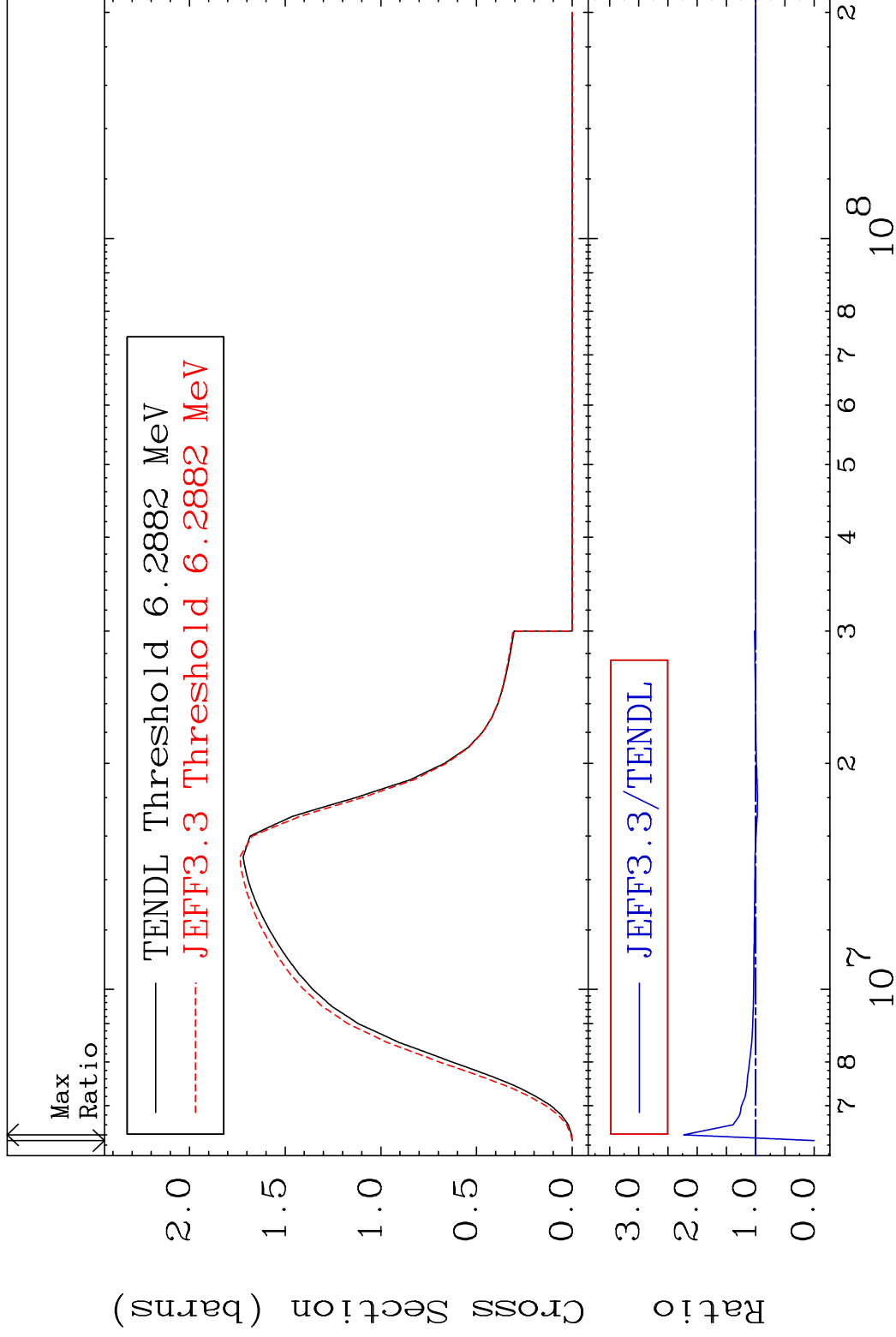
64-Gd-153

MAT 6428

(n,2n)

64-Gd-153

Cross Section -100.0 To 123.2 %



5

Incident Energy (eV)

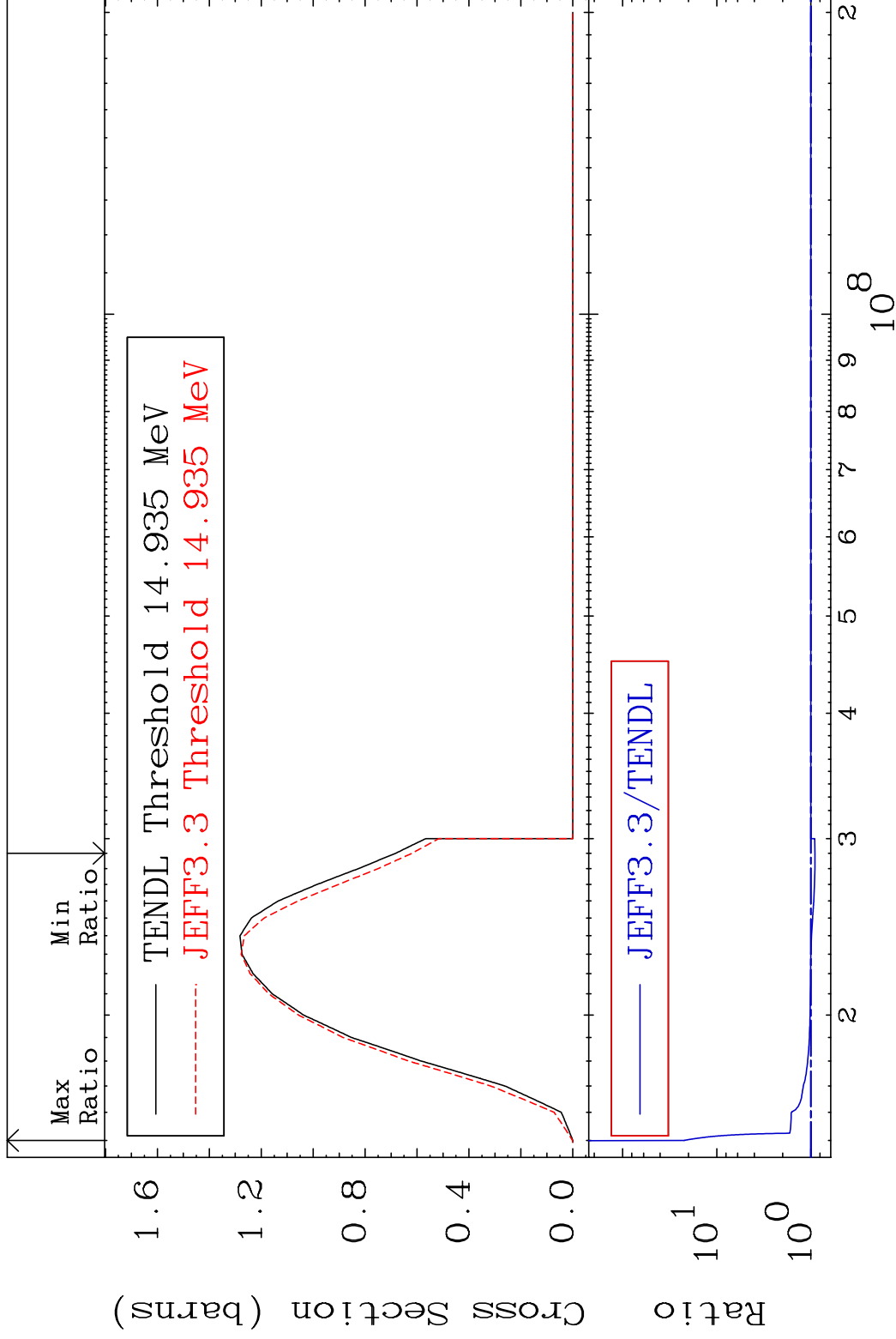
64-Gd-153

MAT 6428

(n,3n)

64-Gd-153

Cross Section -9.230 To 2113. %



6

Incident Energy (eV)

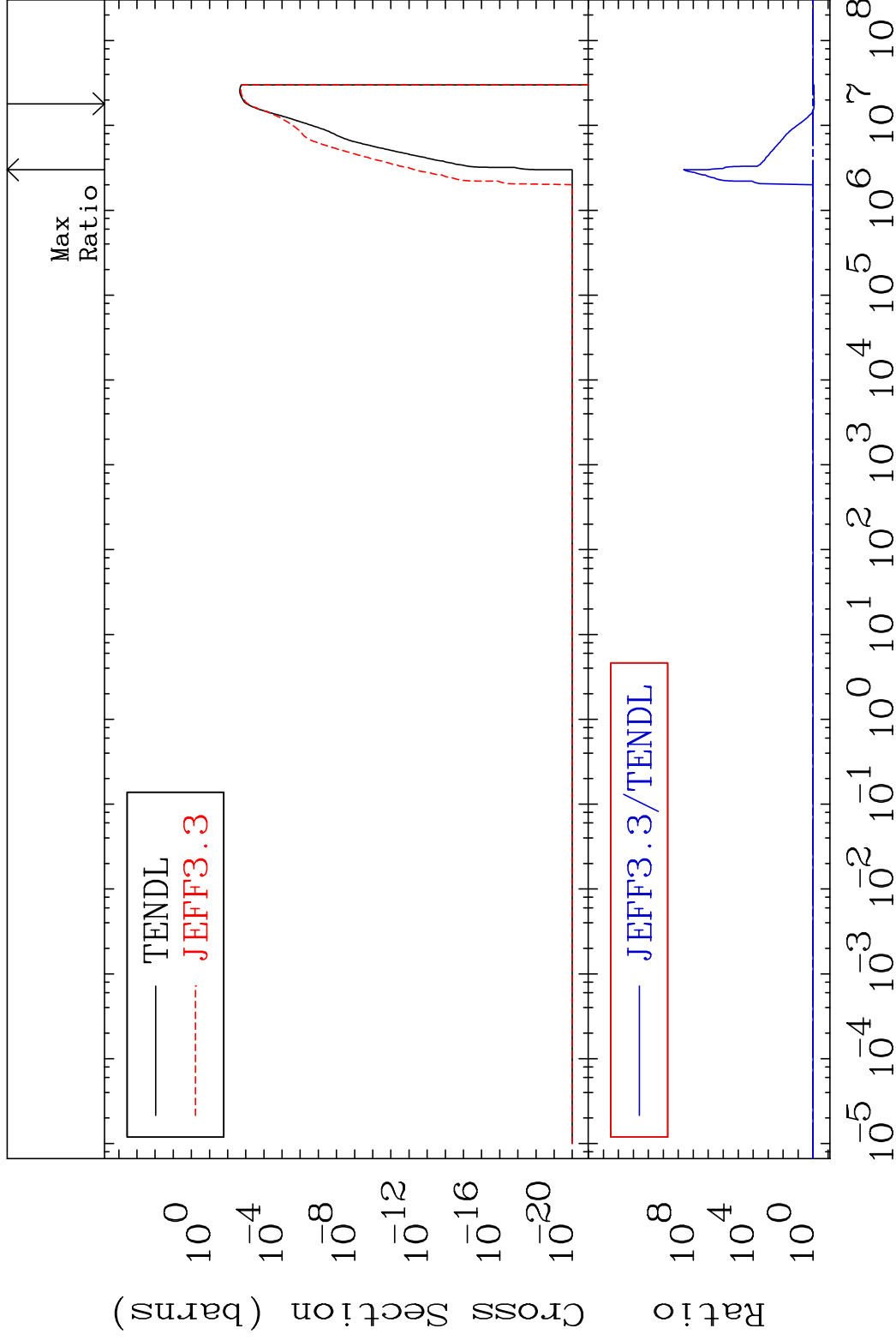
64-Gd-153

MAT 6428

(n, n') α

64-Gd-153

Cross Section -14.69 To 9999. %



7

Incident Energy (eV)

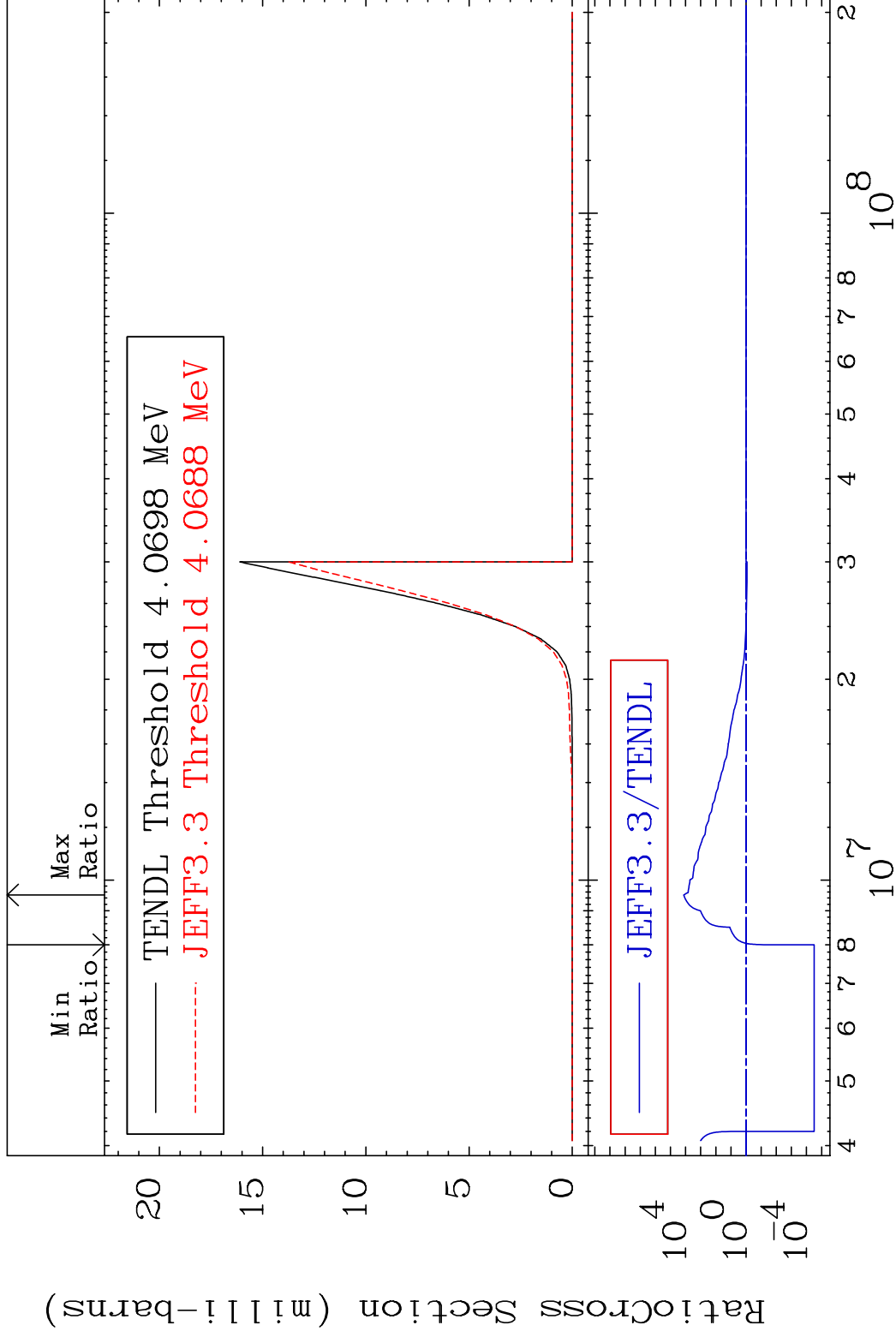
64-Gd-153

MAT 6428

(n,2n) α

64-Gd-153

Cross Section -100.0 To 9999. %



8

Incident Energy (eV)

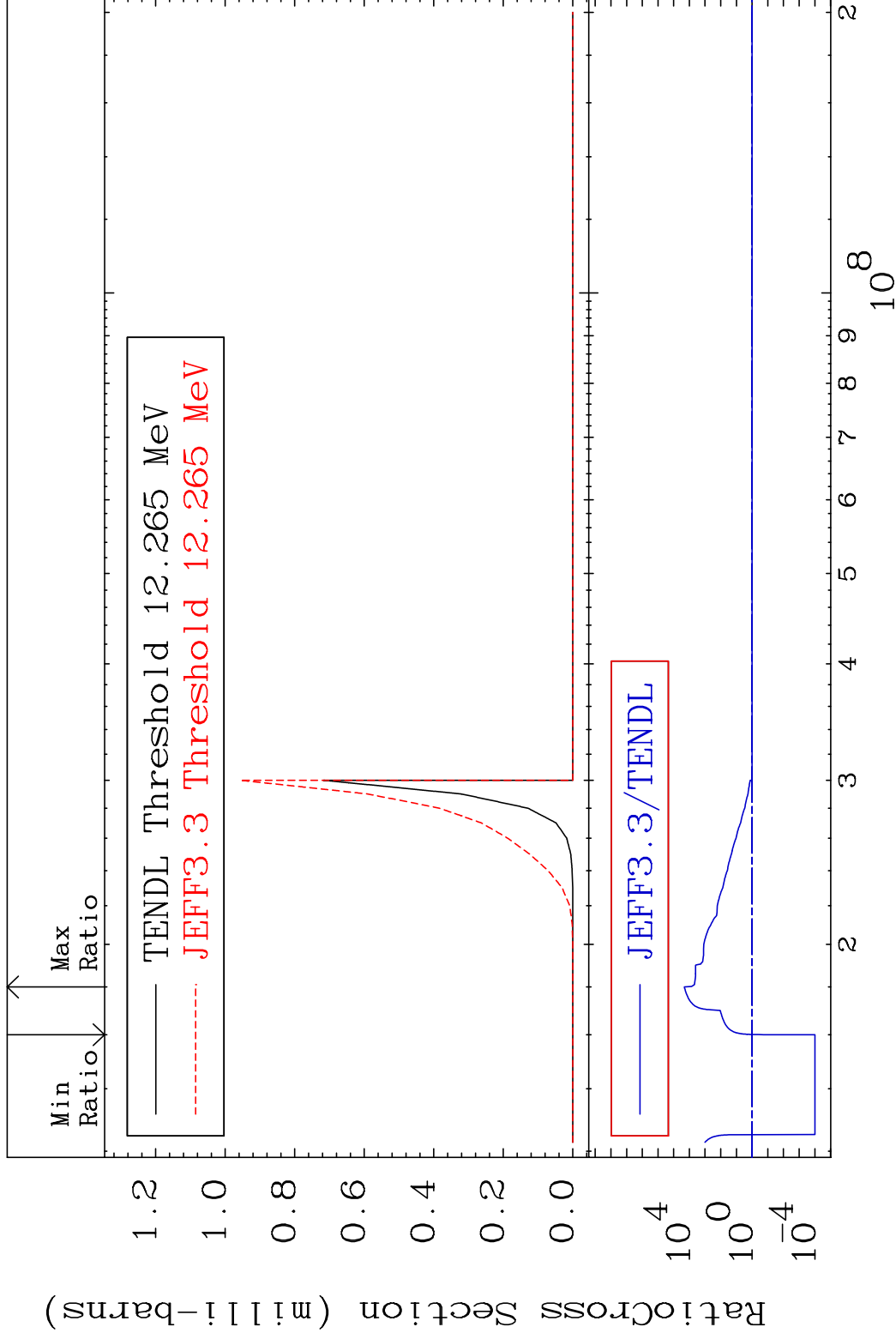
64-Gd-153

MAT 6428

(n,3n) α

64-Gd-153

Cross Section -99.99 To 9999. %

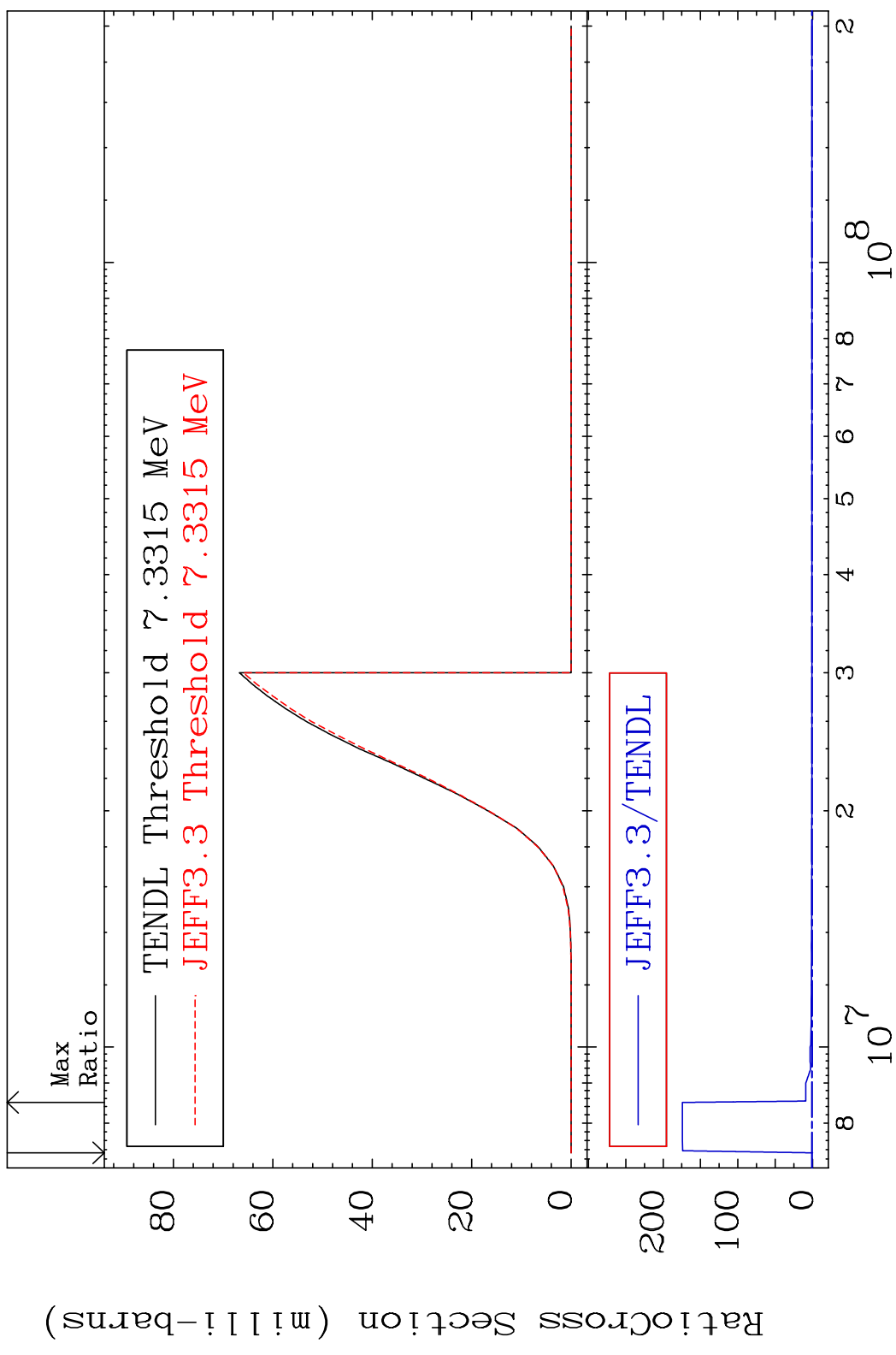


MAT 6428

(n, n') p

64-Gd-153

Cross Section -100.0 To 9999. %



10

Incident Energy (eV)

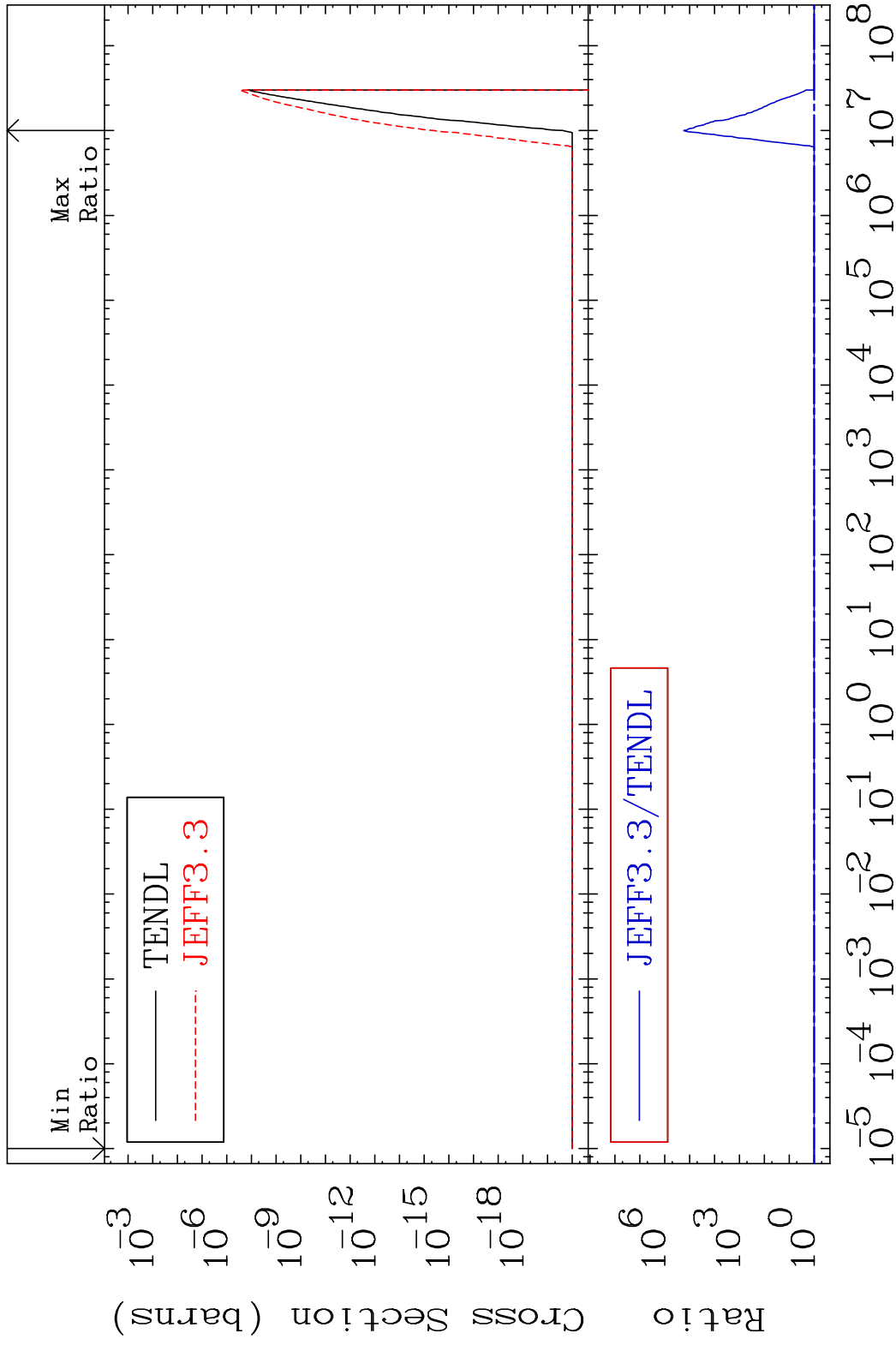
64-Gd-153

MAT 6428

(n, n') 2α

64-Gd-153

Cross Section 0.000 To 9999. %

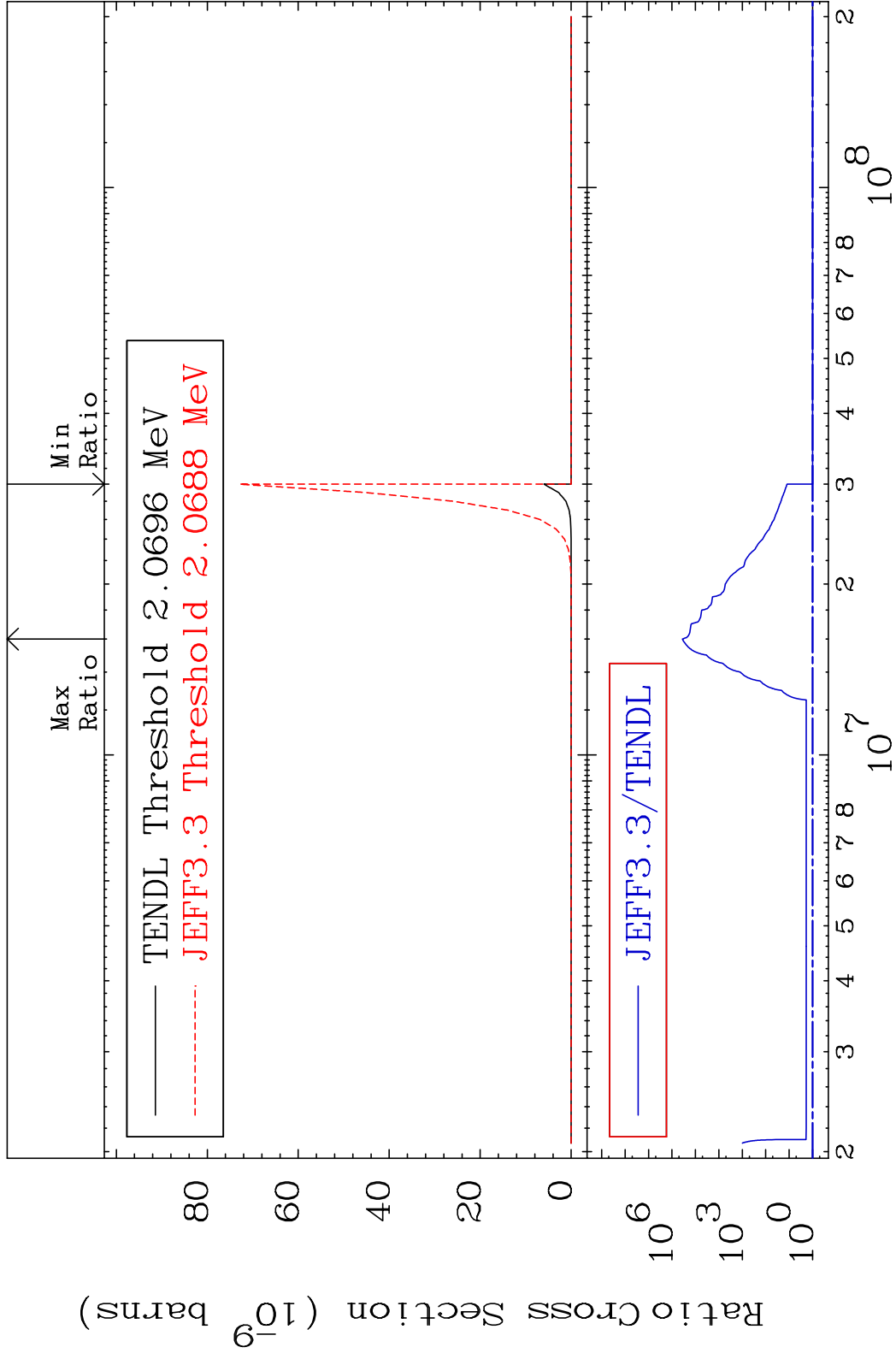


11

Incident Energy (eV)

64-Gd-153

MAT 6428 (n, 2n) 2α 64-Gd-153
 Cross Section 0.000 To 9999. %

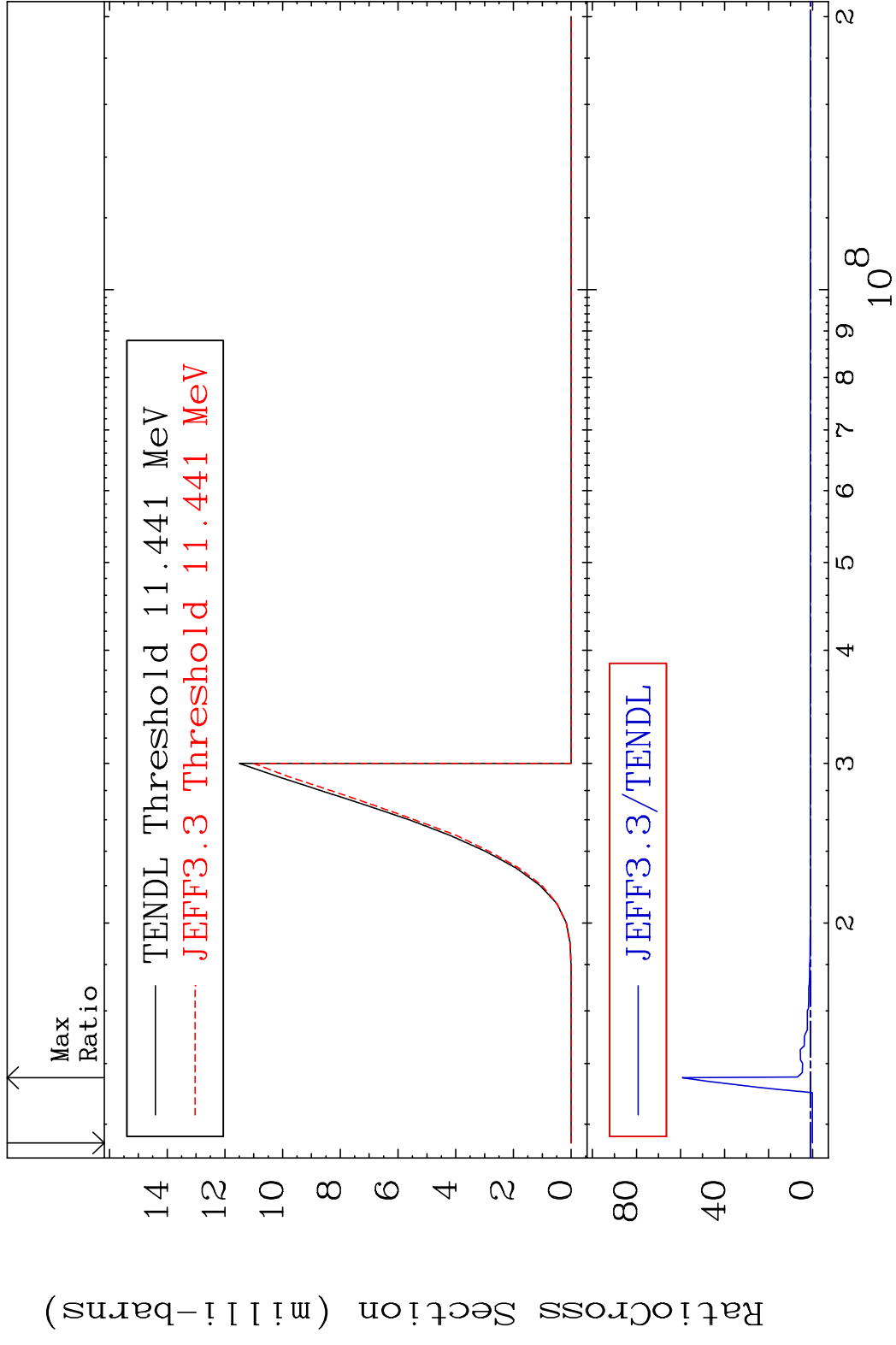


MAT 6428

(n, n') d

64-Gd-153

Cross Section -100.0 To 5814. %

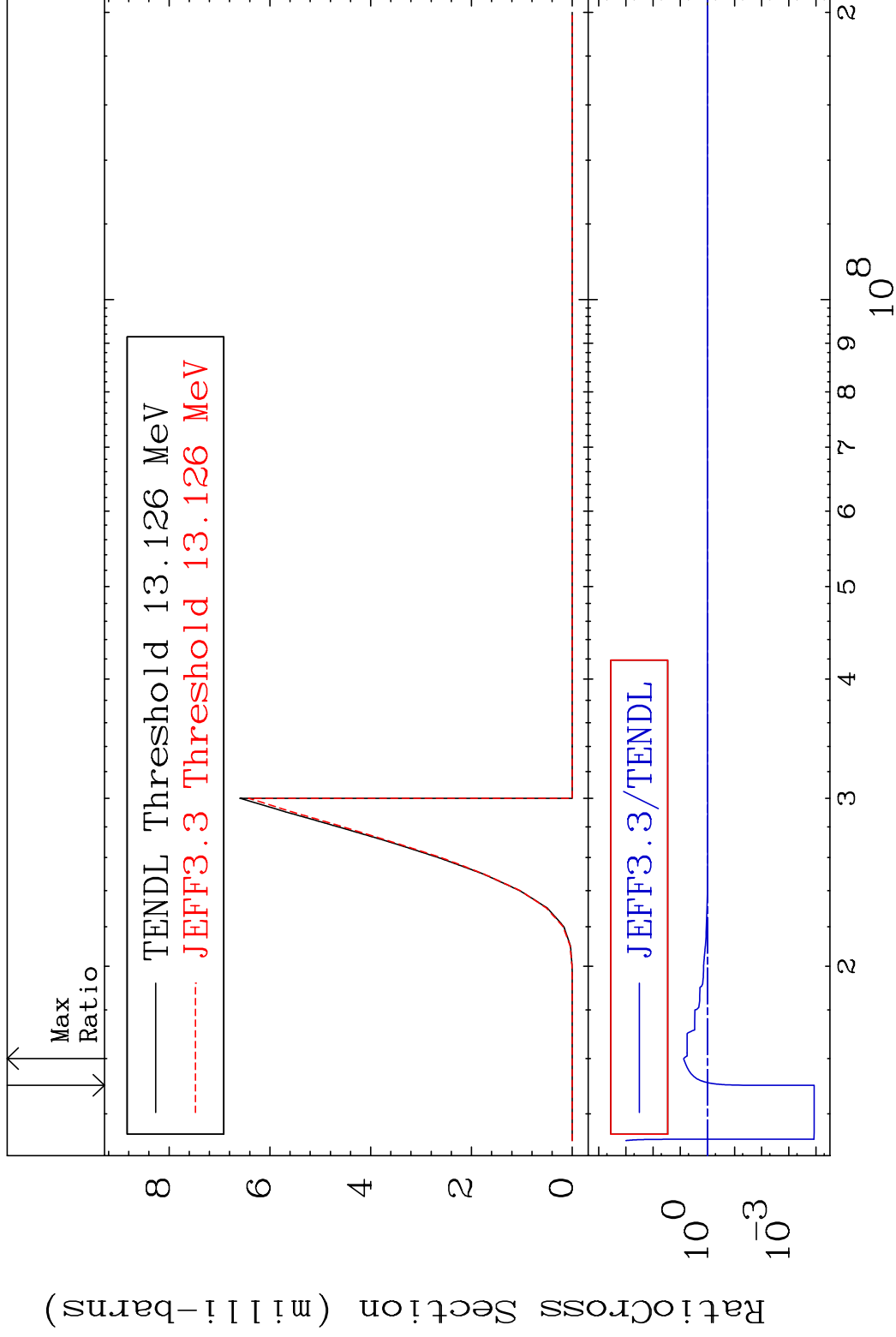


MAT 6428

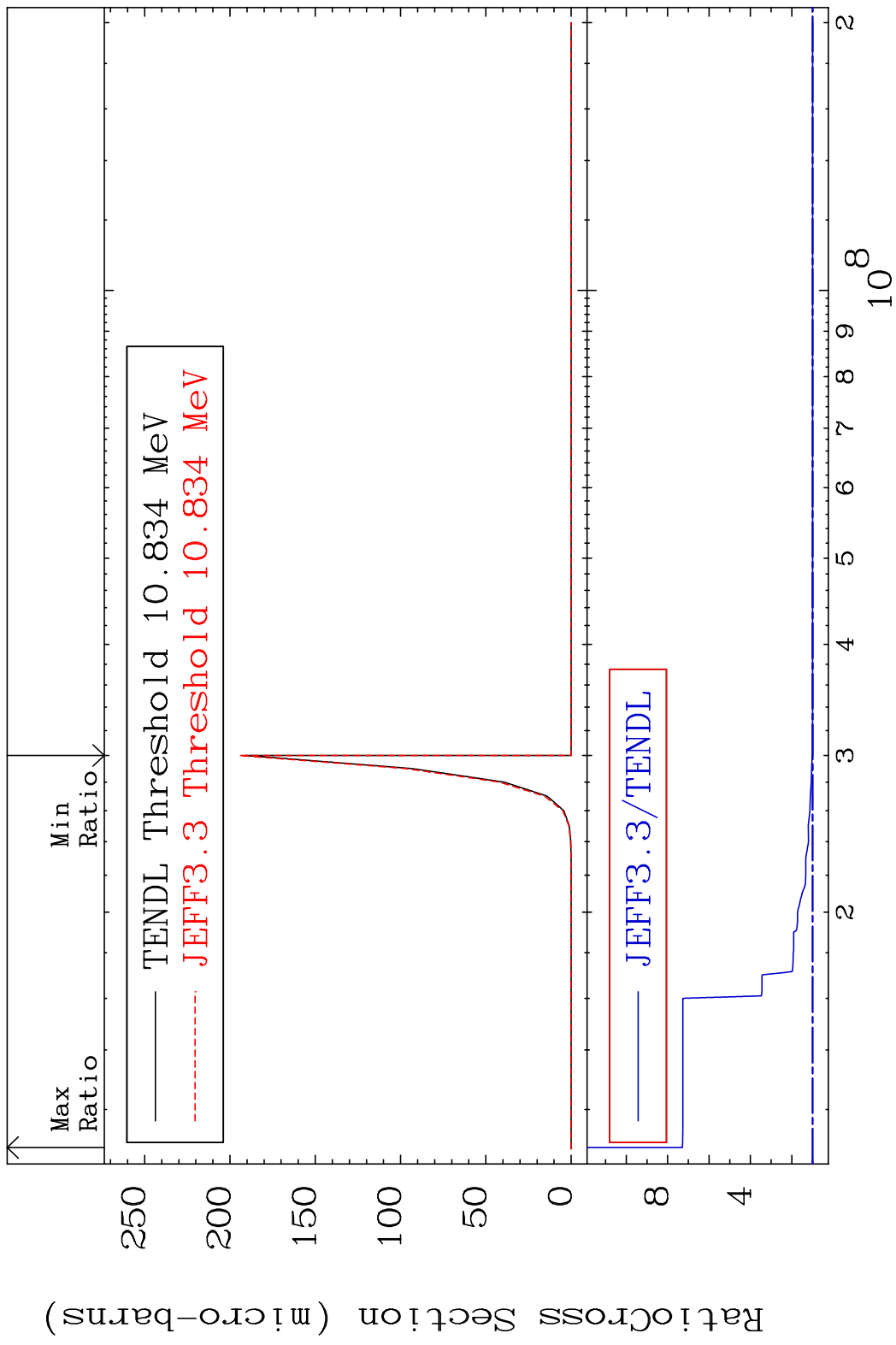
(n, n') t

64-Gd-153

Cross Section -99.99 To 648.0 %



MAT 6428 (n,n') He-3 64-Gd-153
 Cross Section 0.000 To 628.9 %

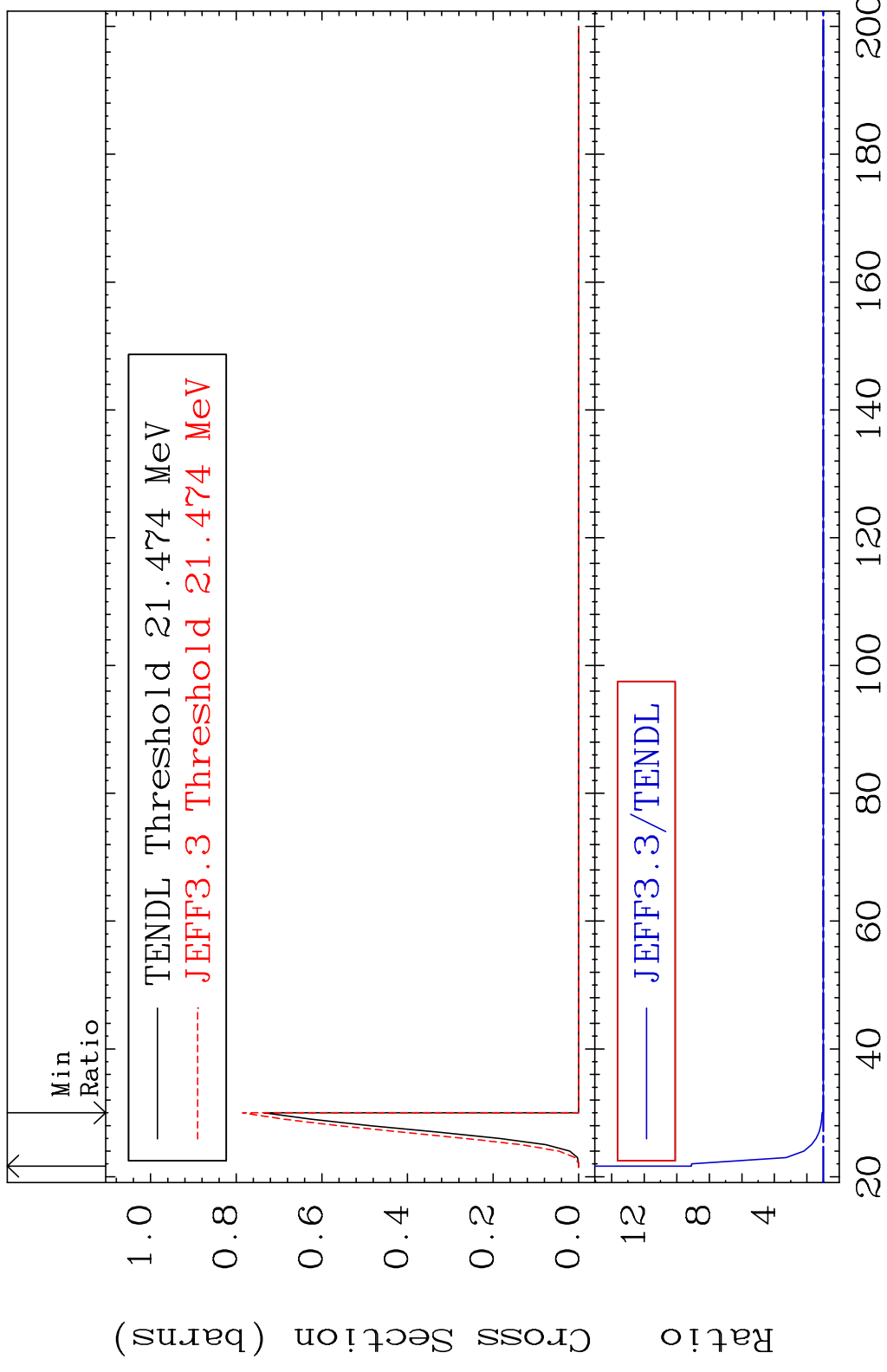


MAT 6428

(n, 4n)

64-Gd-153

Cross Section 0.000 To 810.5 %

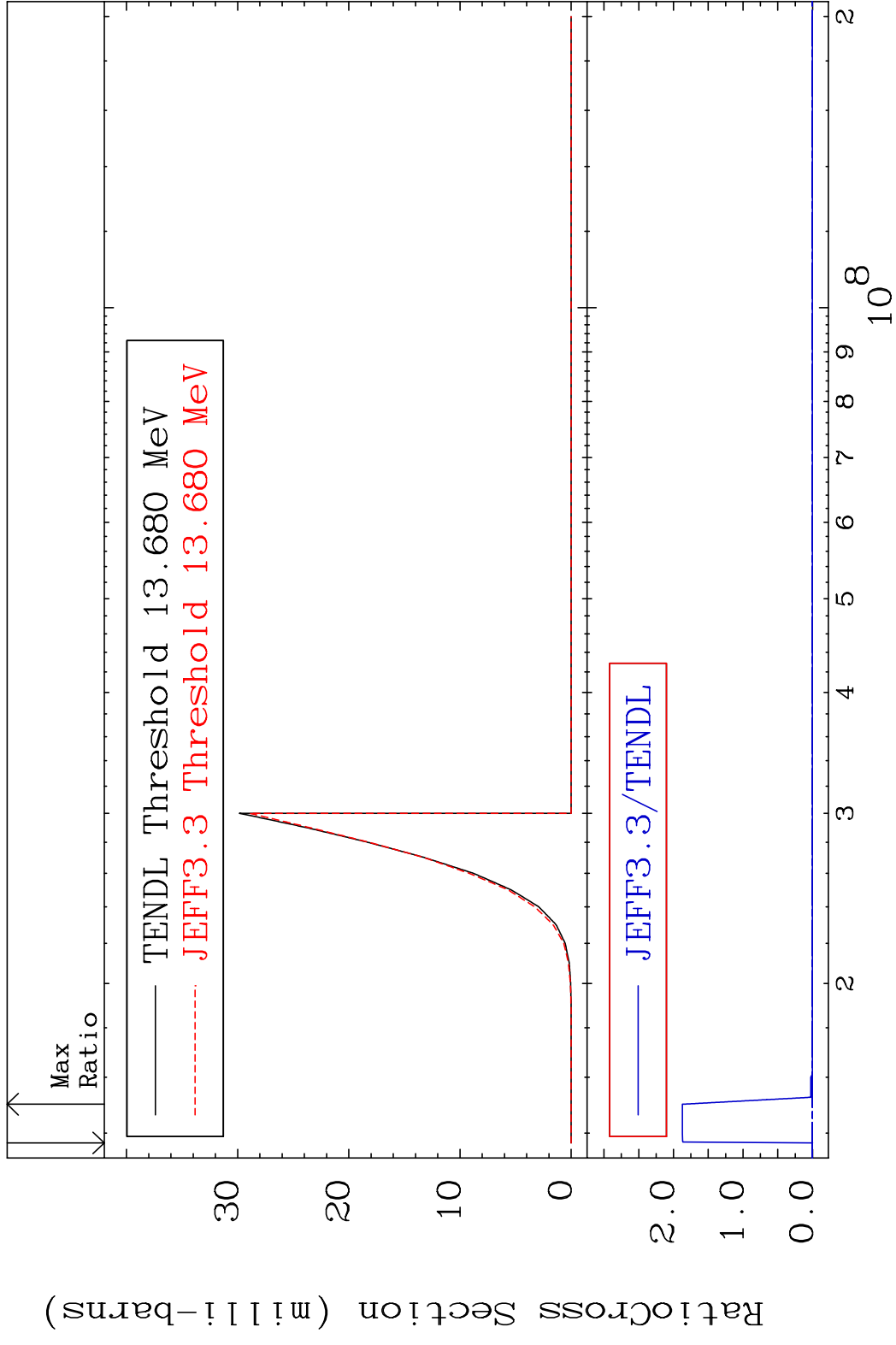


MAT 6428

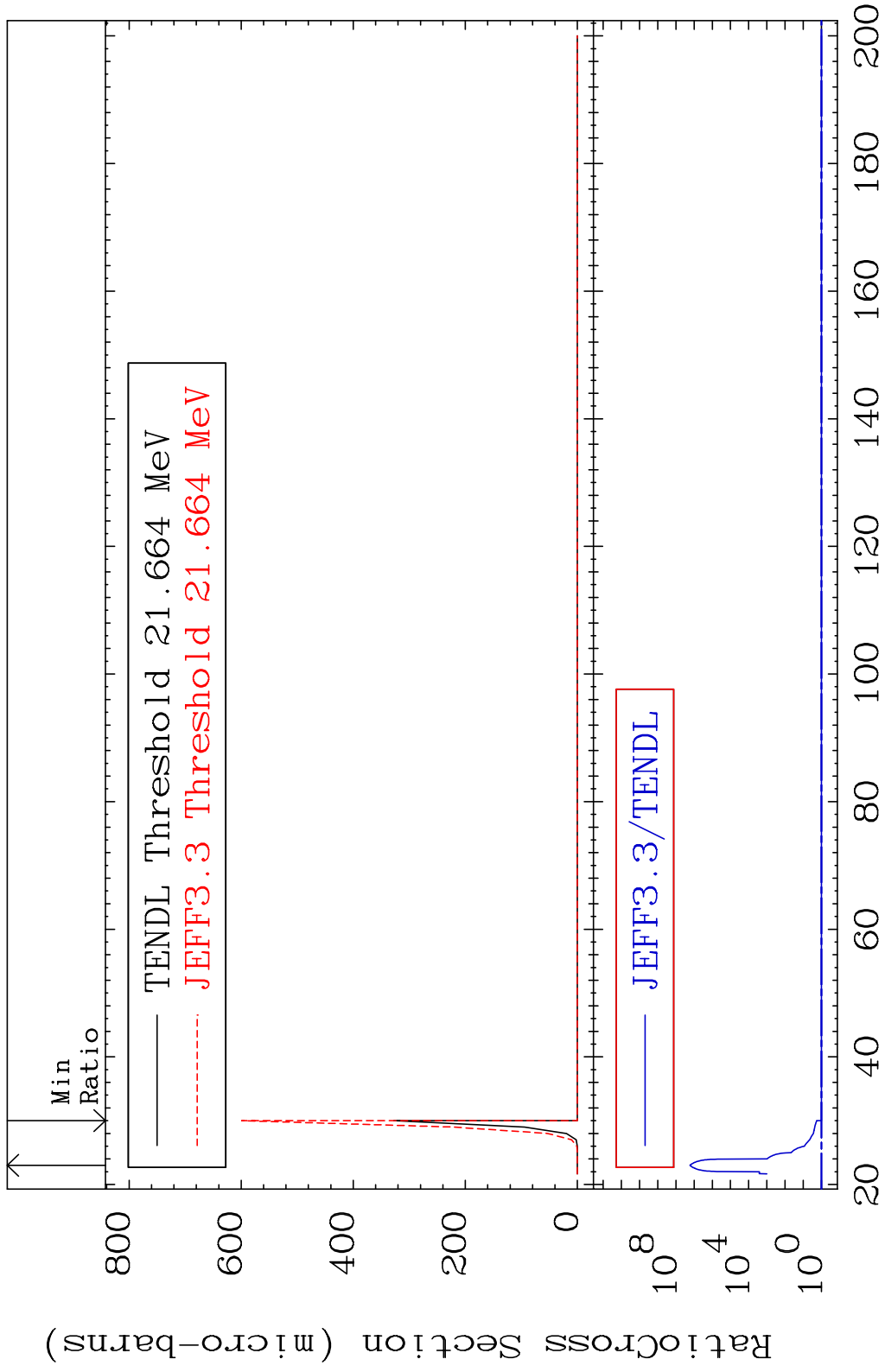
(n,2n) p

64-Gd-153

Cross Section -100.0 To 9999. %



MAT 6428 (n,3n) p 64-Gd-153
 Cross Section 0.000 To 9999. %

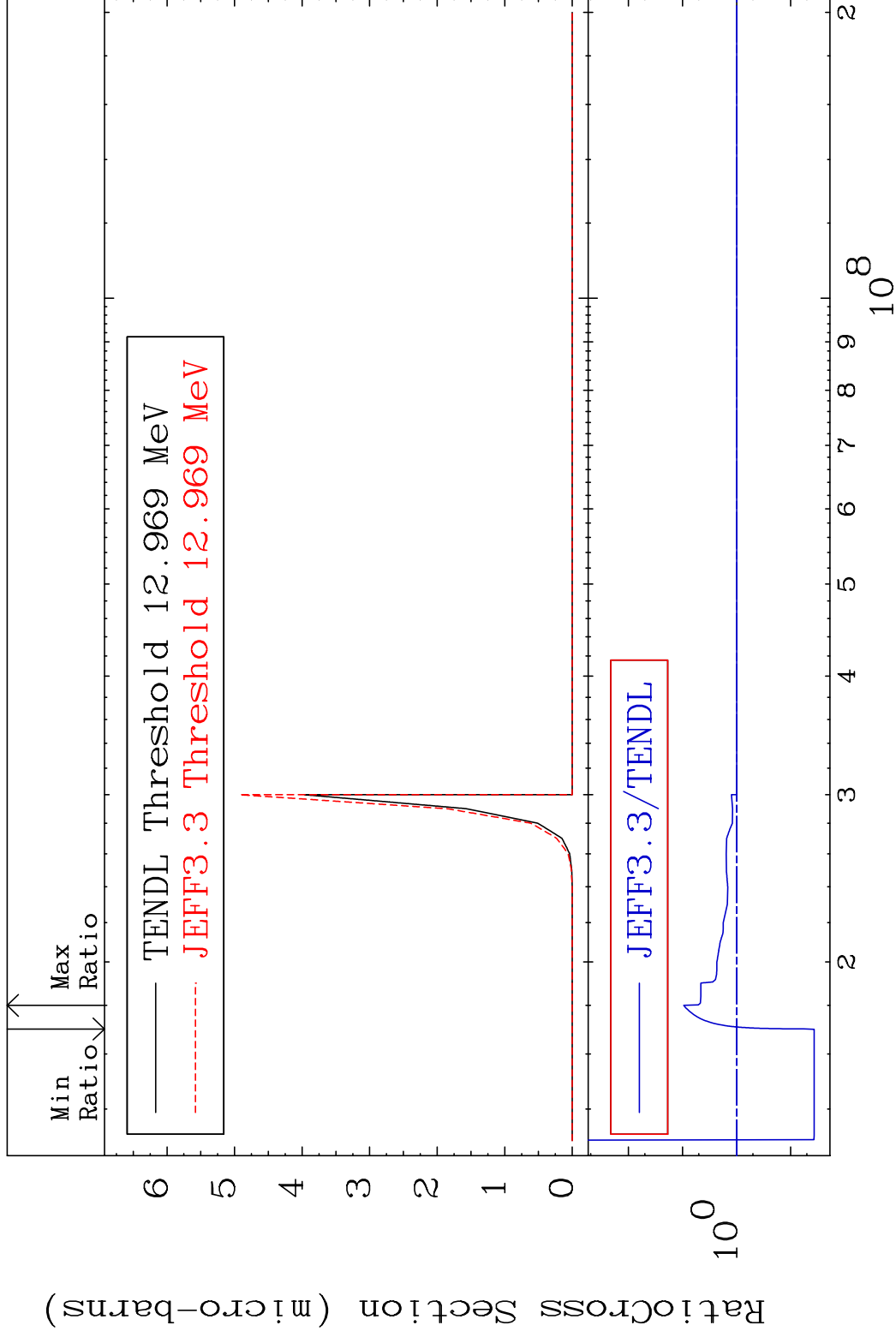


MAT 6428

(n,2n) p

64-Gd-153

Cross Section -96.32 To 853.8 %

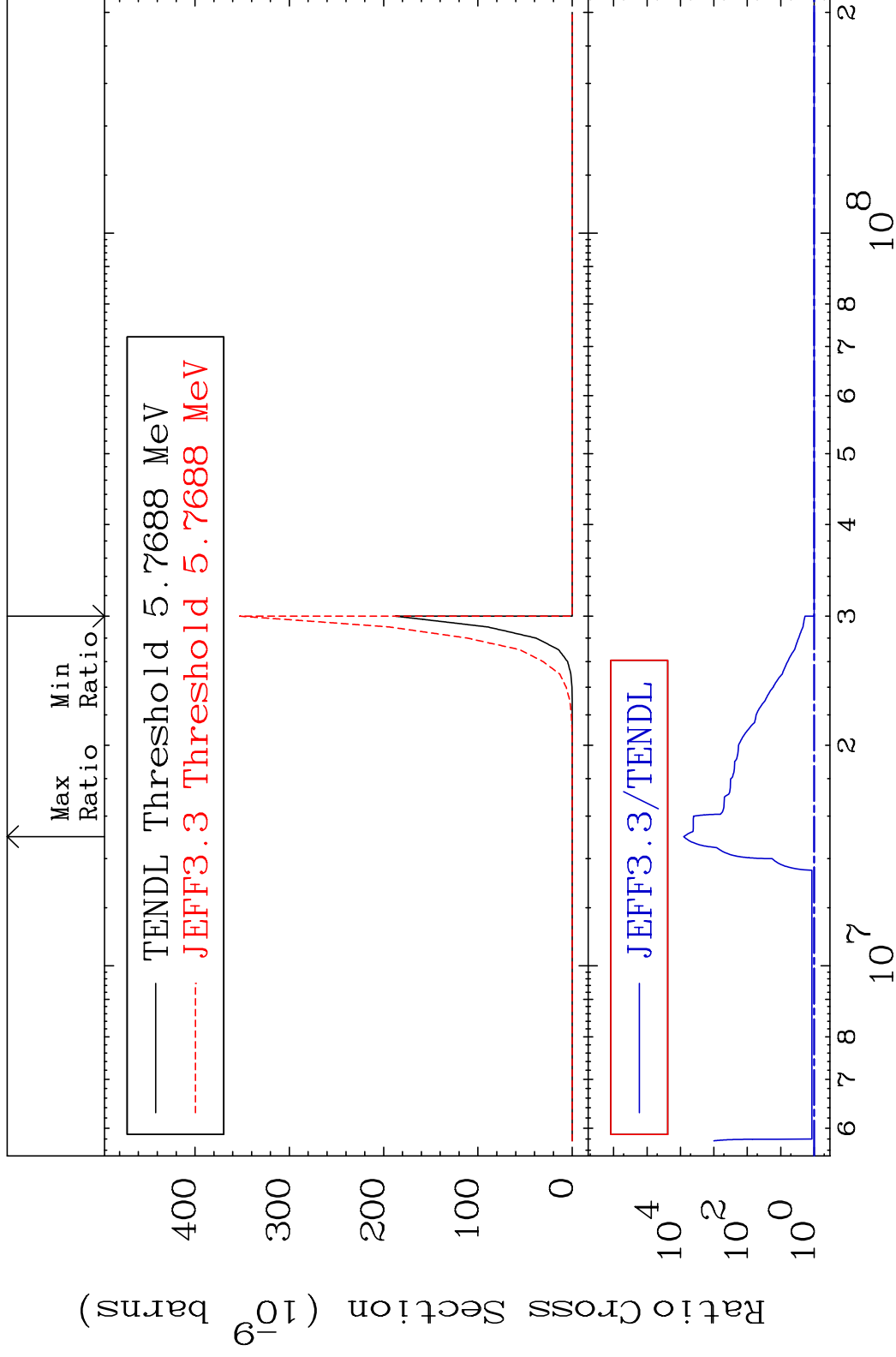


MAT 6428

(n, n') p α

64-Gd-153

Cross Section 0.000 To 9999. %

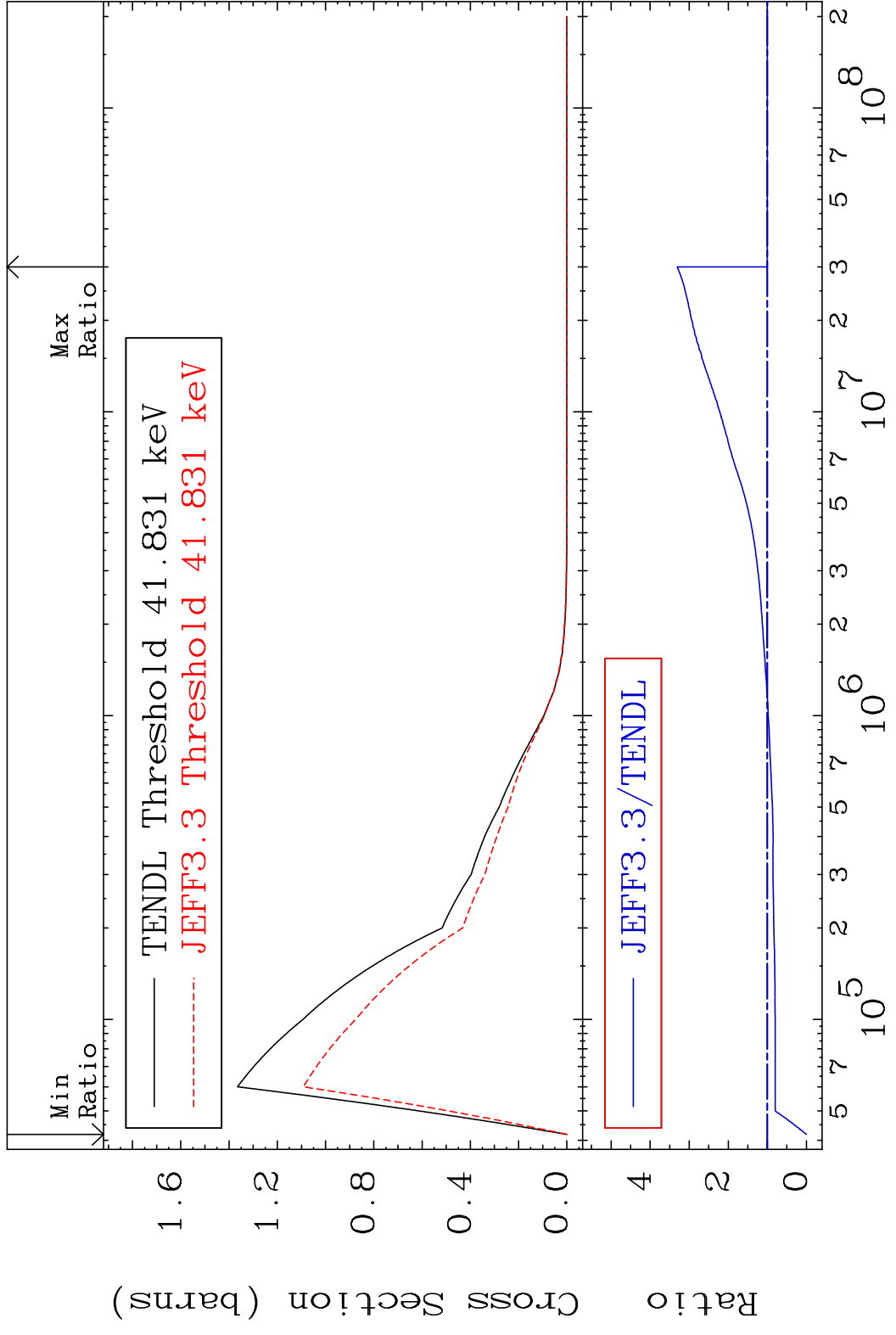


20

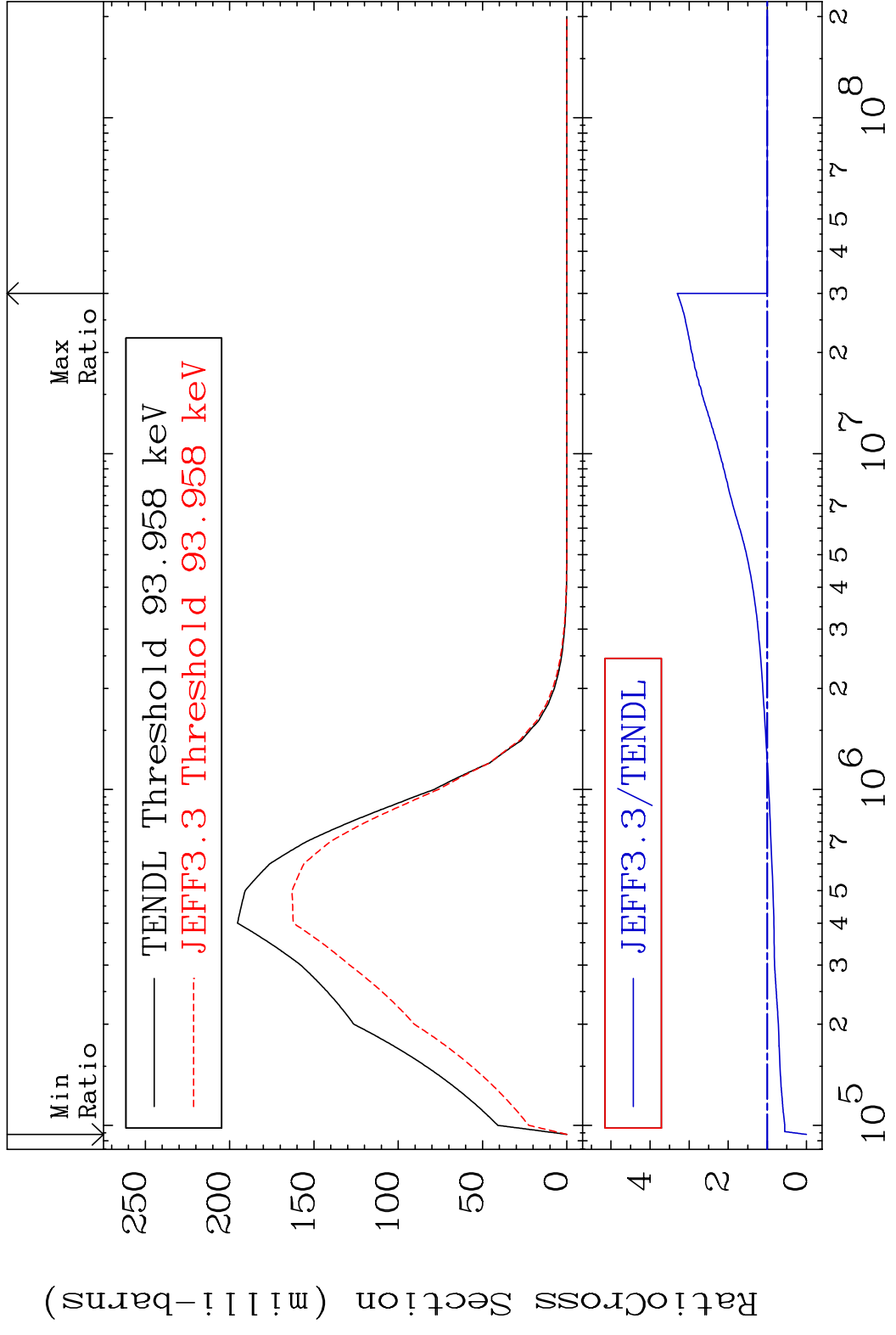
Incident Energy (eV)

64-Gd-153

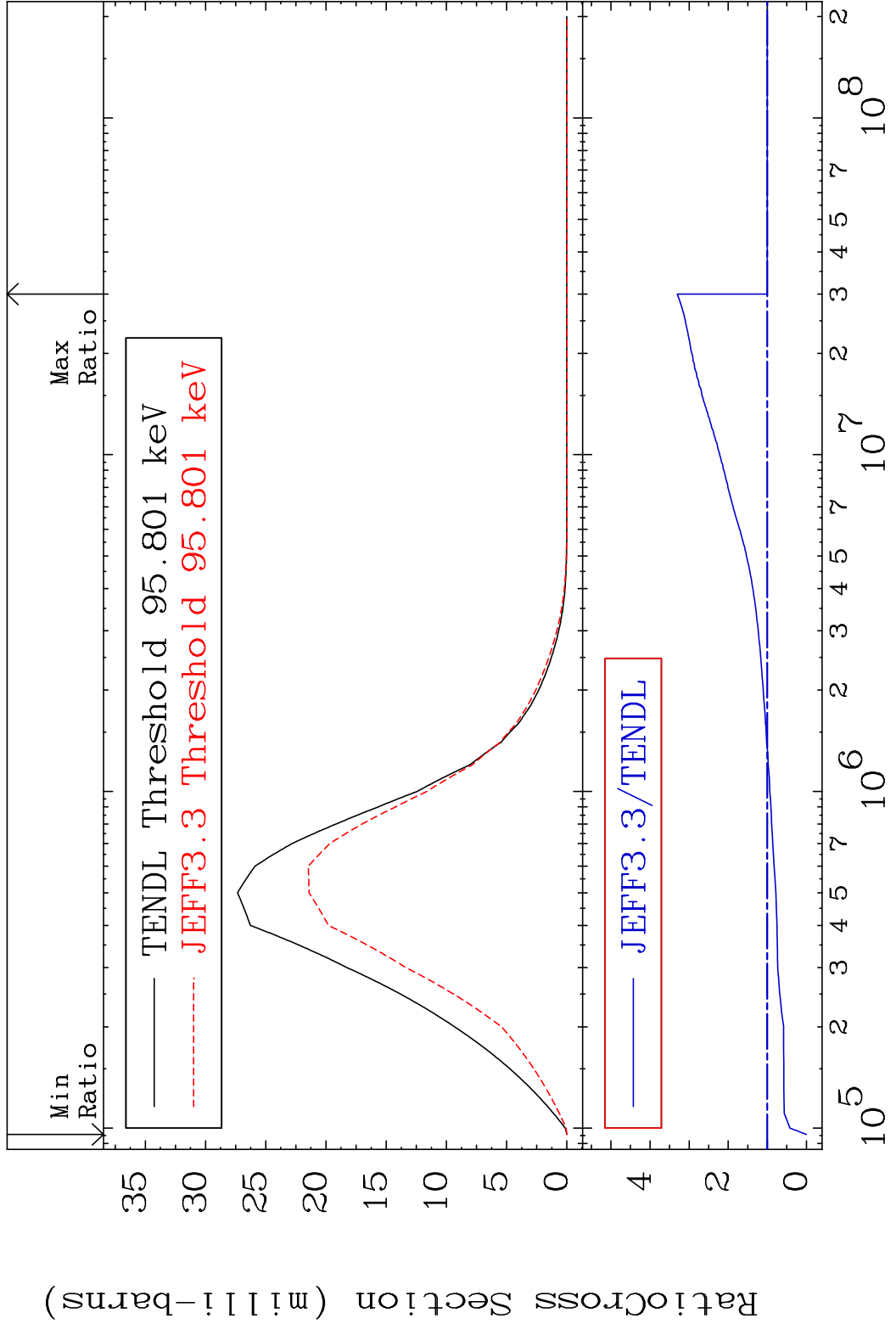
MAT 6428 MT= 51 (n, n') Level 64-Gd-153
 Cross Section -100.0 To 230.8 %



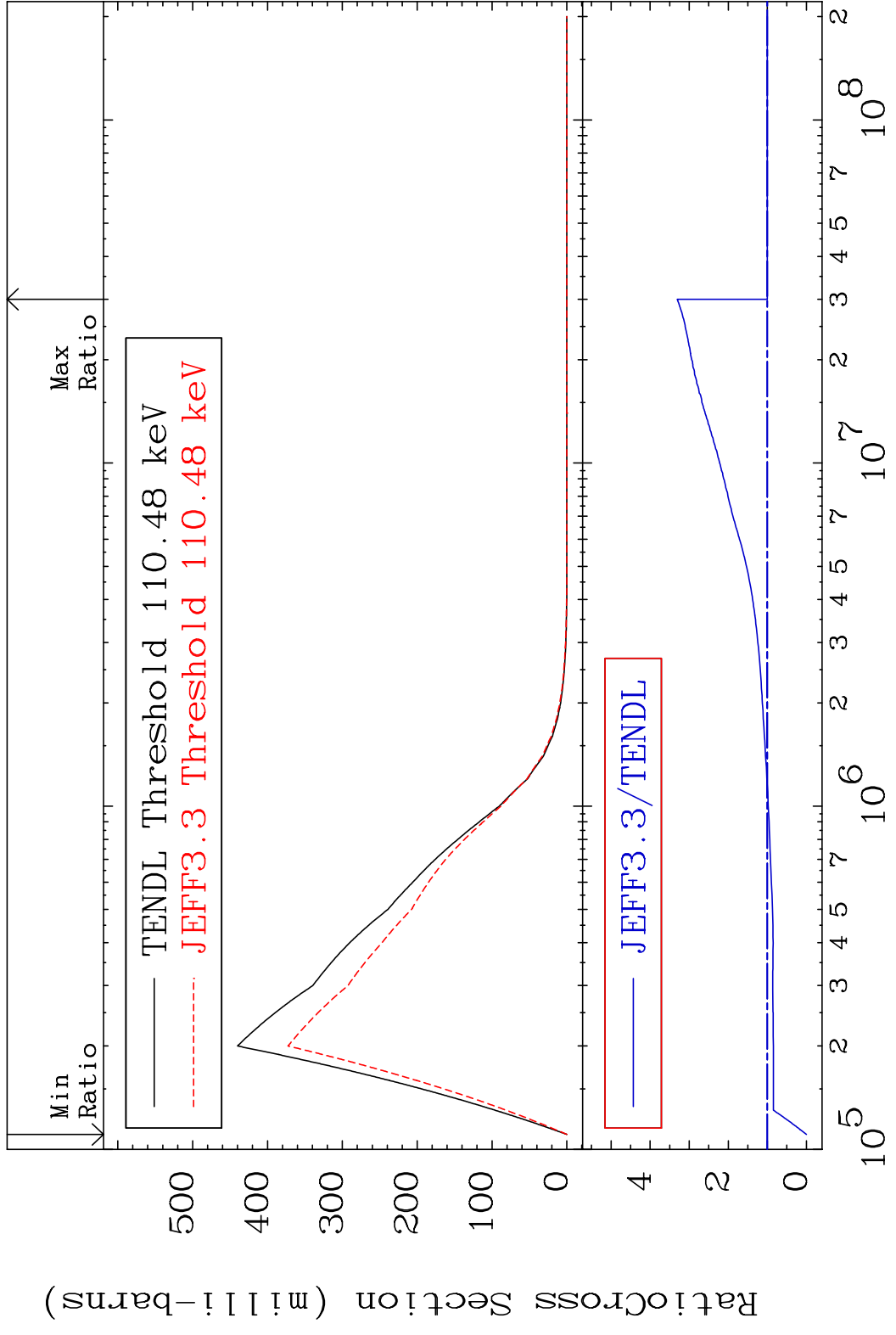
MAT 6428 MT= 52 (n, n') Level 64-Gd-153
 Cross Section -100.0 To 230.7 %



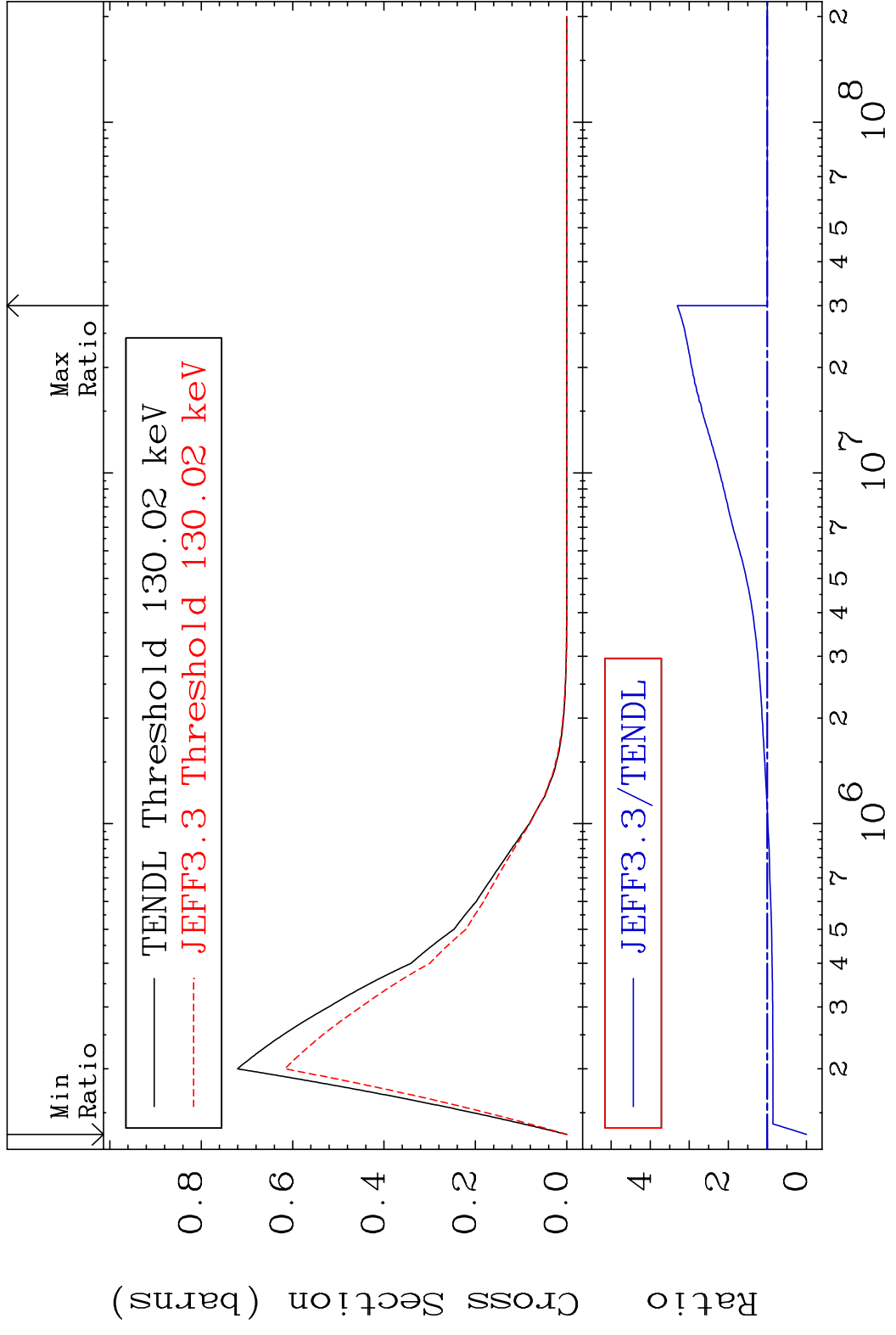
MAT 6428 MT= 53 (n, n') Level 64-Gd-153
 Cross Section -100.0 To 230.5 %



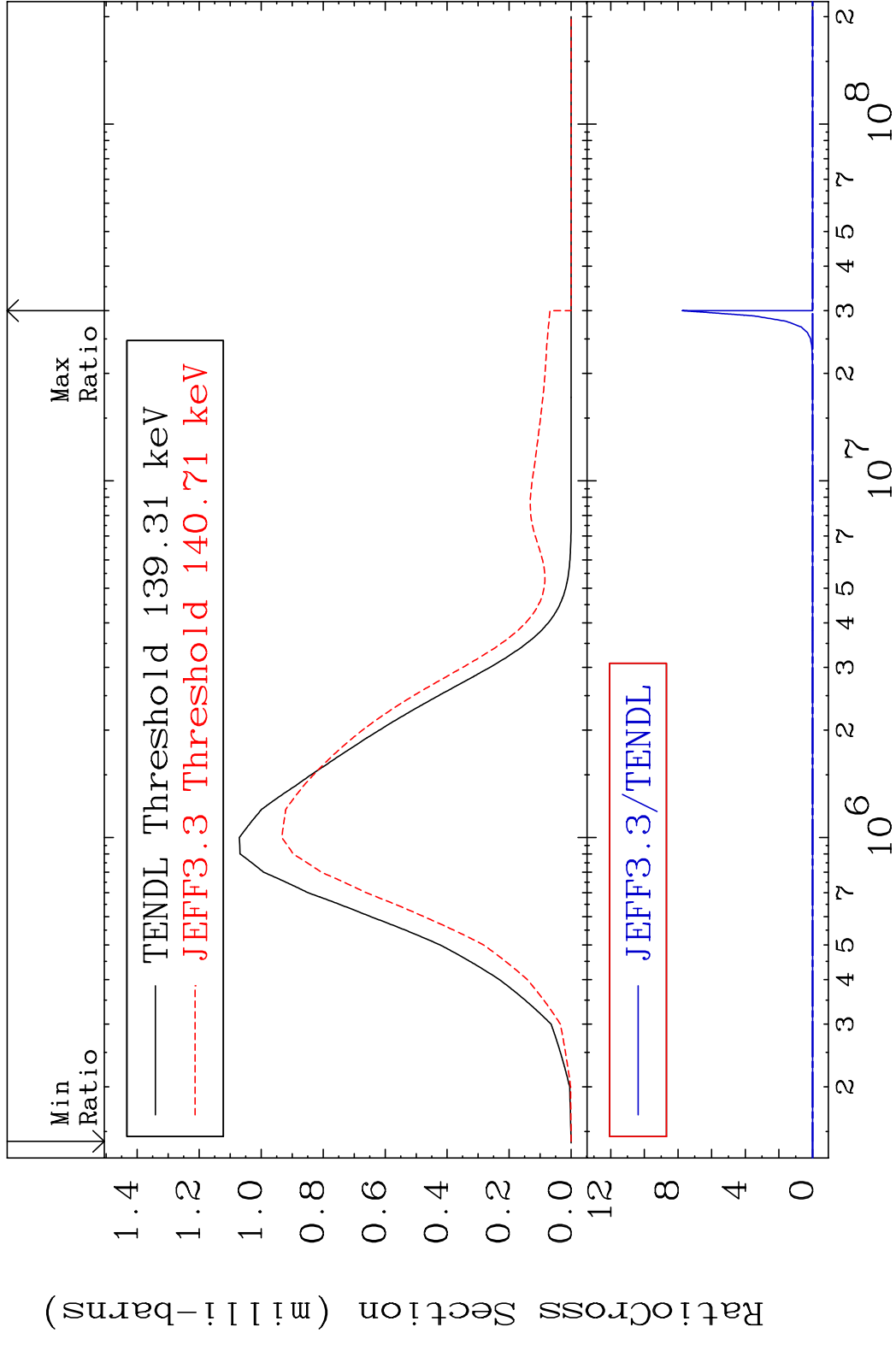
MAT 6428 MT= 54 (n,n') Level 64-Gd-153
 Cross Section -100.0 To 230.8 %



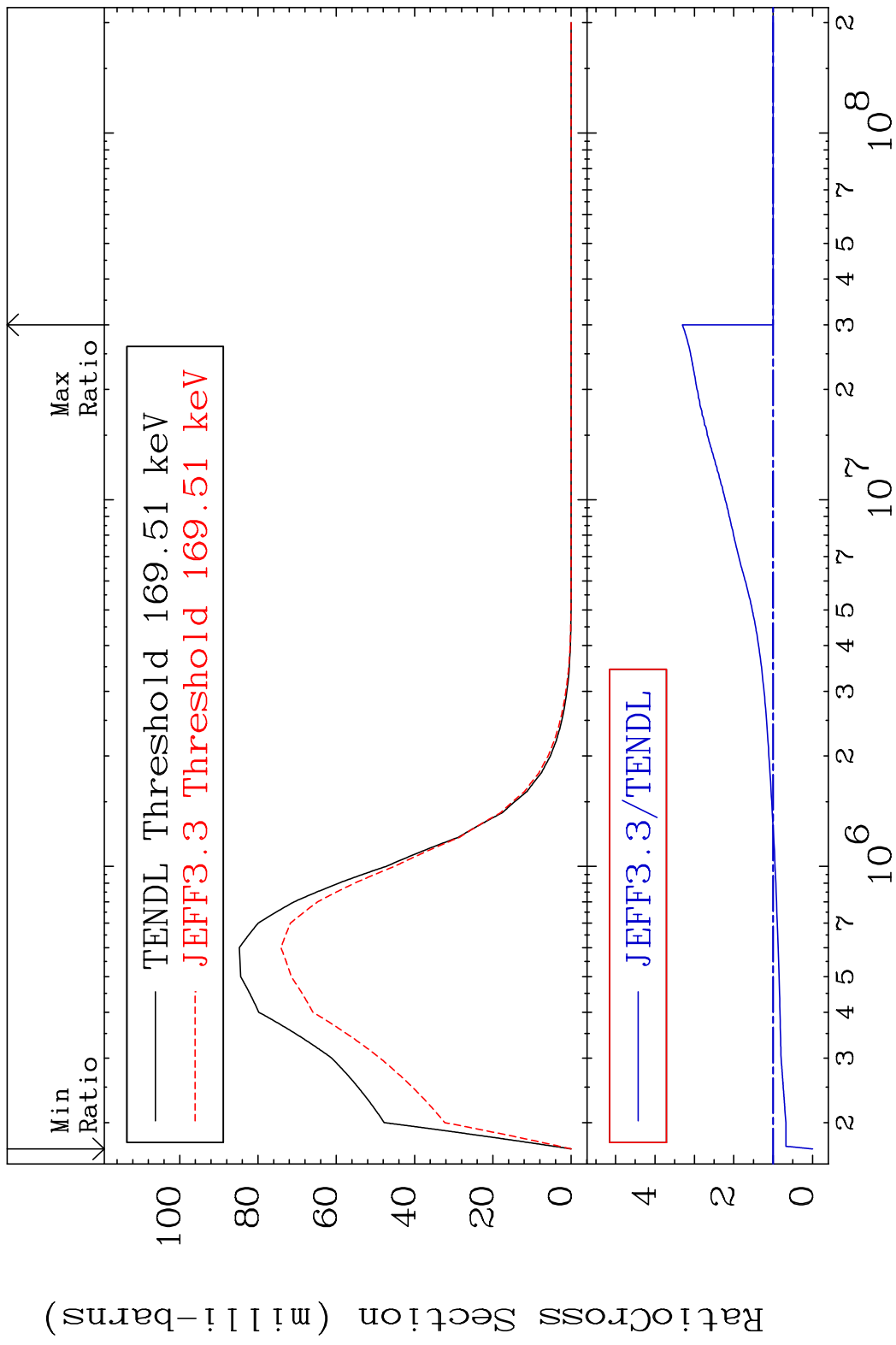
MAT 6428 MT= 55 (n, n') Level 64-Gd-153
 Cross Section -100.0 To 230.9 %



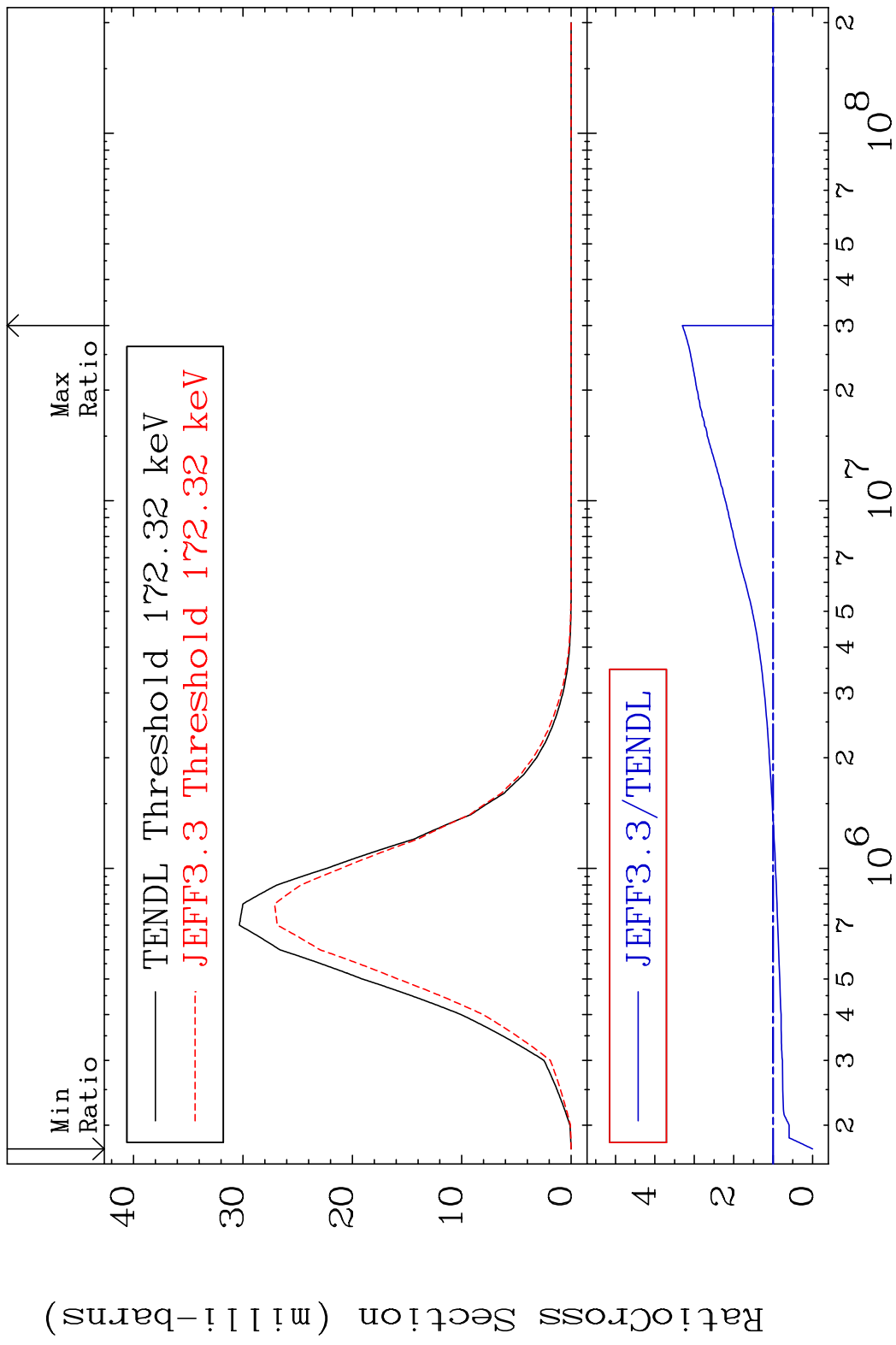
MAT 6428 MT= 56 (n,n') Level 64-Gd-153
 Cross Section -100.0 To 9999. %



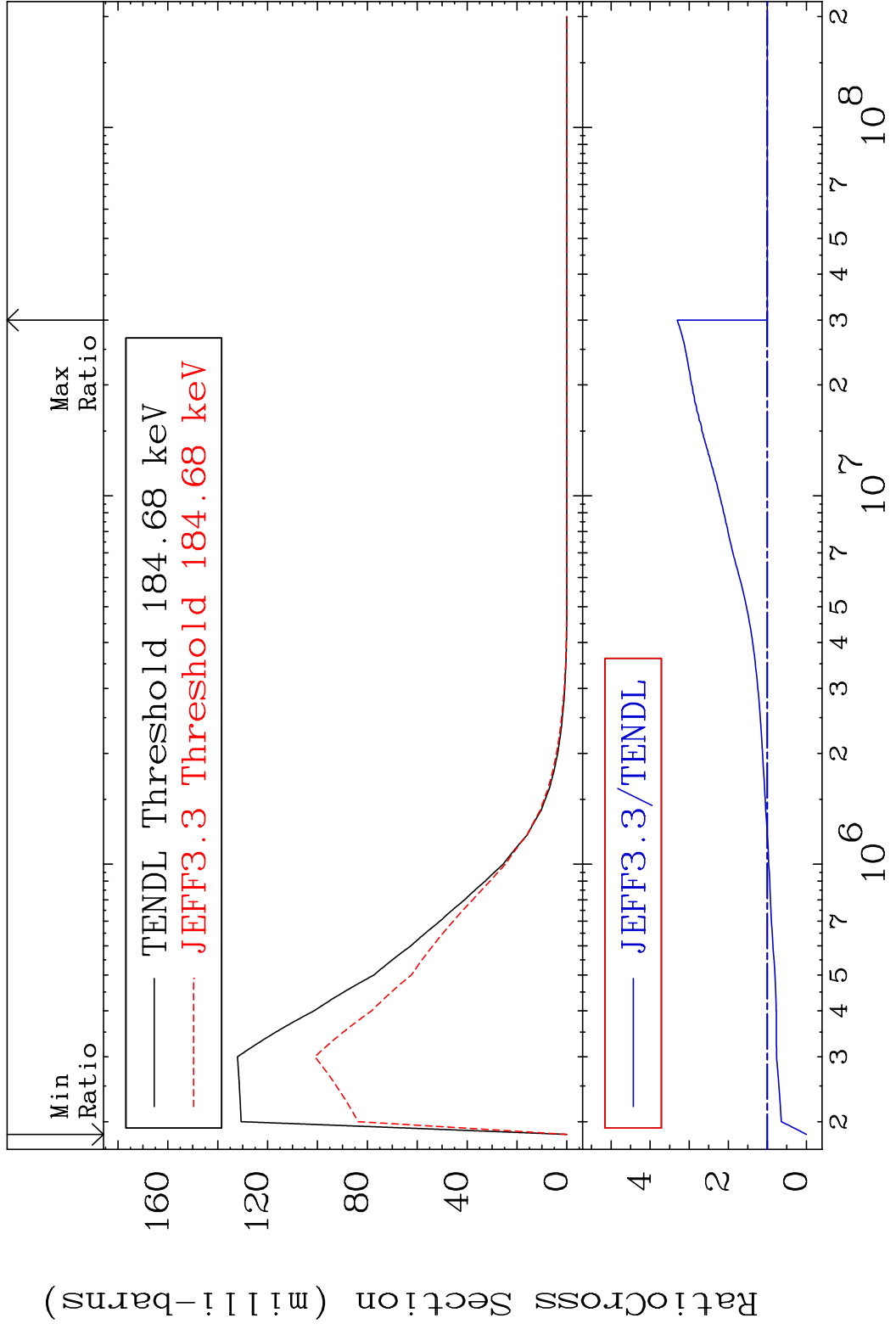
MAT 6428 MT= 57 (n, n') Level 64-Gd-153
 Cross Section -100.0 To 230.5 %



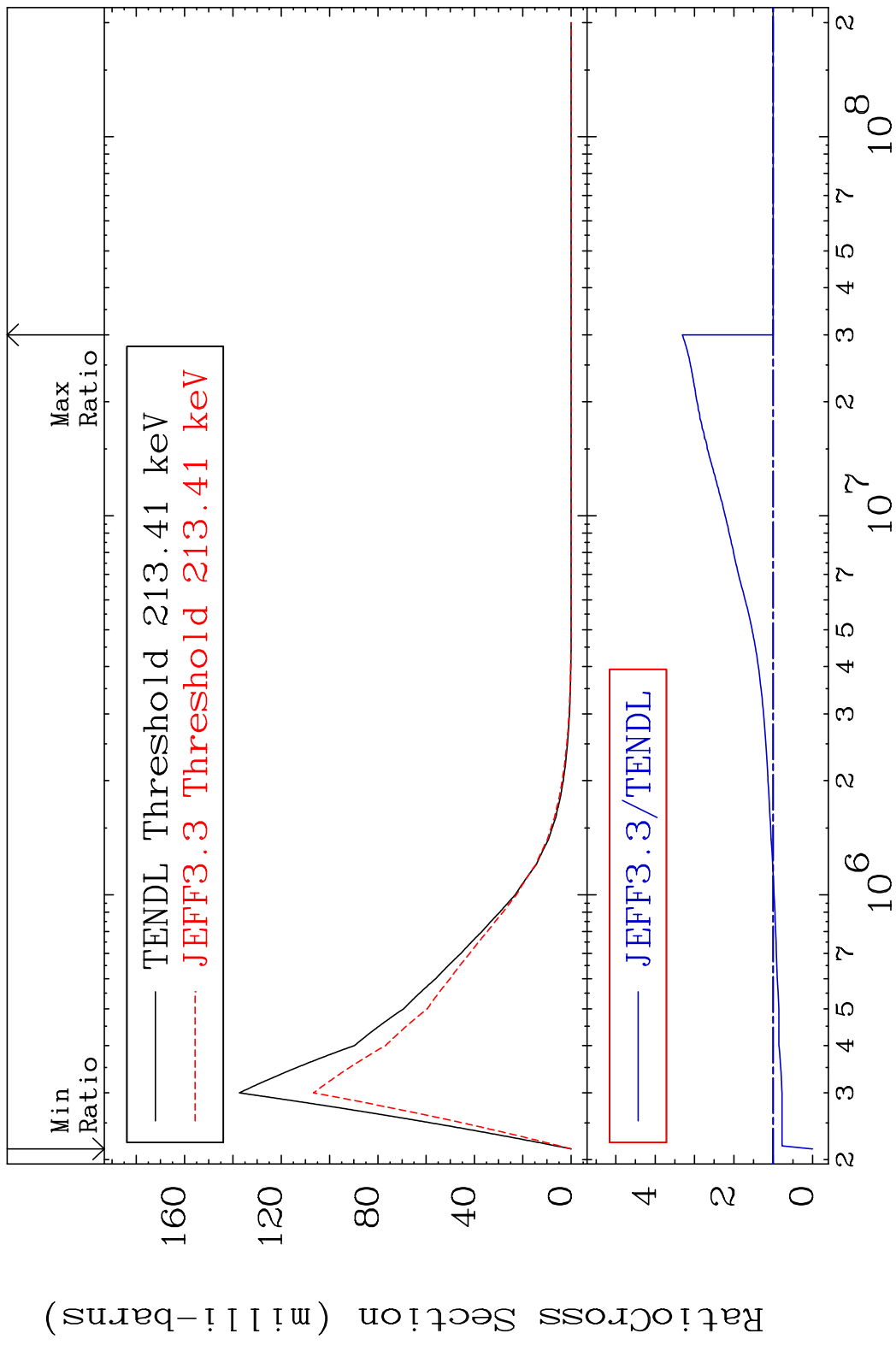
MAT 6428 MT= 58 (n, n') Level 64-Gd-153
 Cross Section -100.0 To 230.3 %



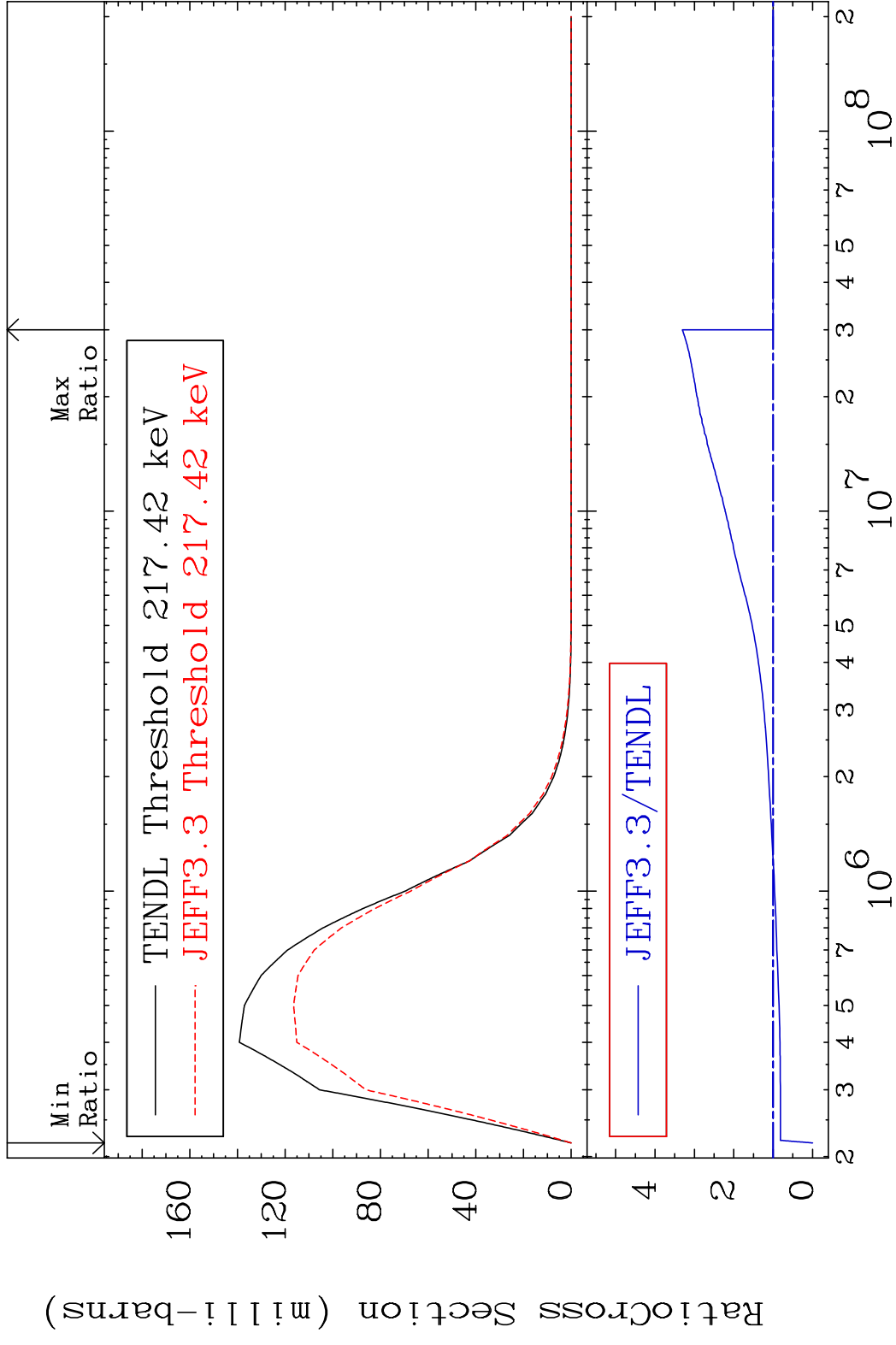
MAT 6428 MT= 59 (n,n') Level 64-Gd-153
 Cross Section -100.0 To 230.8 %



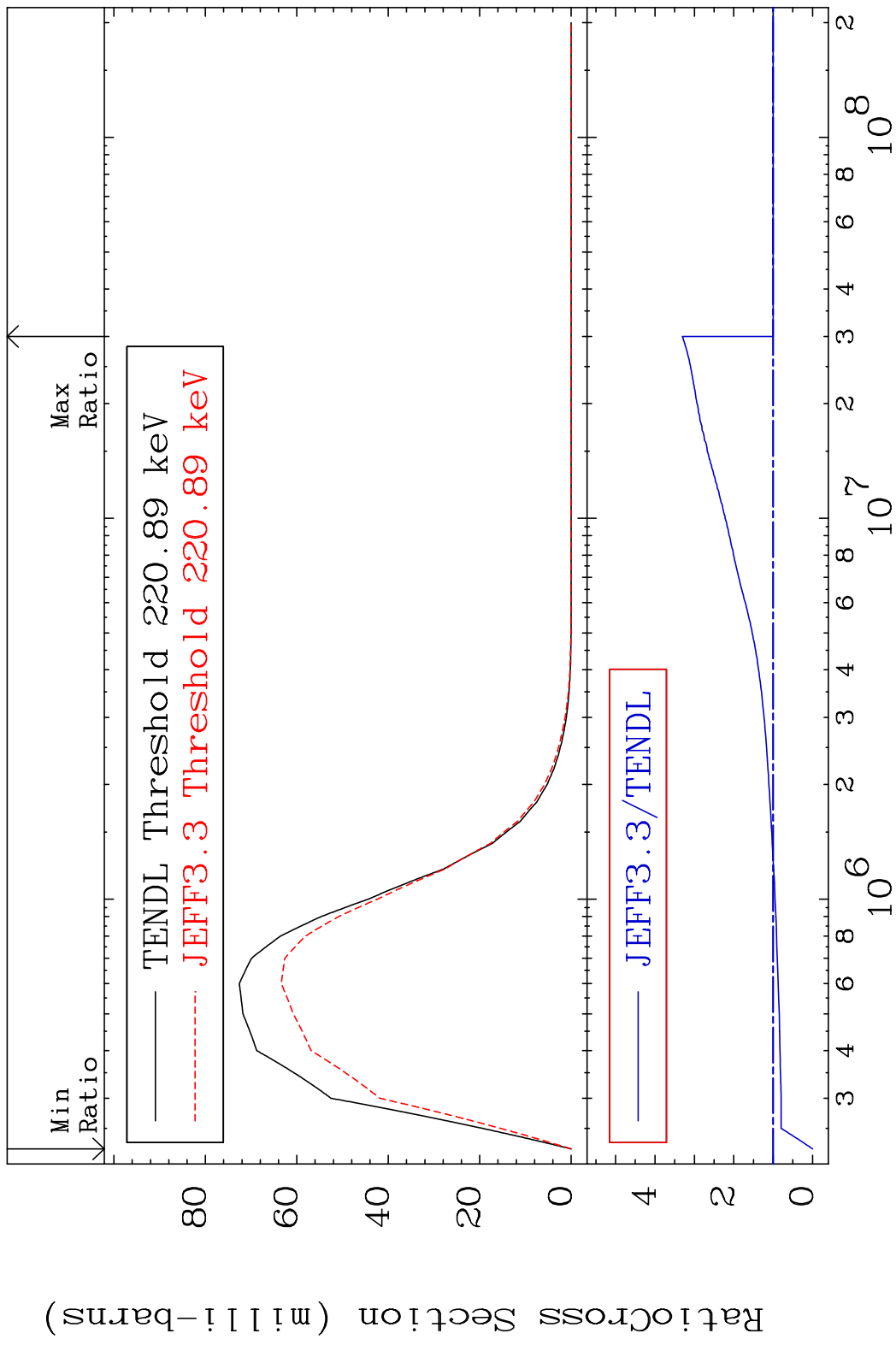
MAT 6428 MT= 60 (n,n') Level 64-Gd-153
 Cross Section -100.0 To 230.9 %



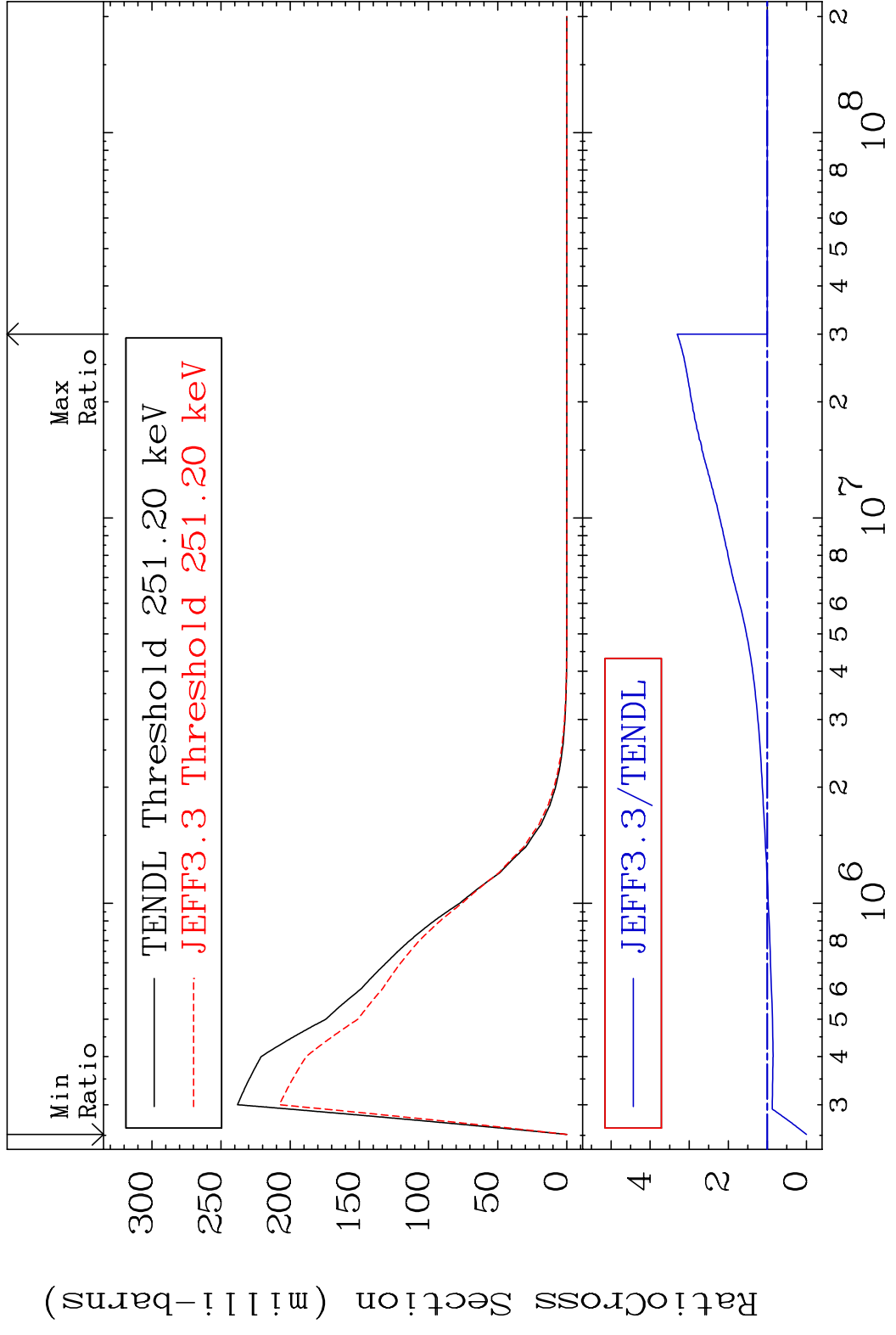
MAT 6428 MT= 61 (n, n') Level 64-Gd-153
 Cross Section -100.0 To 230.7 %



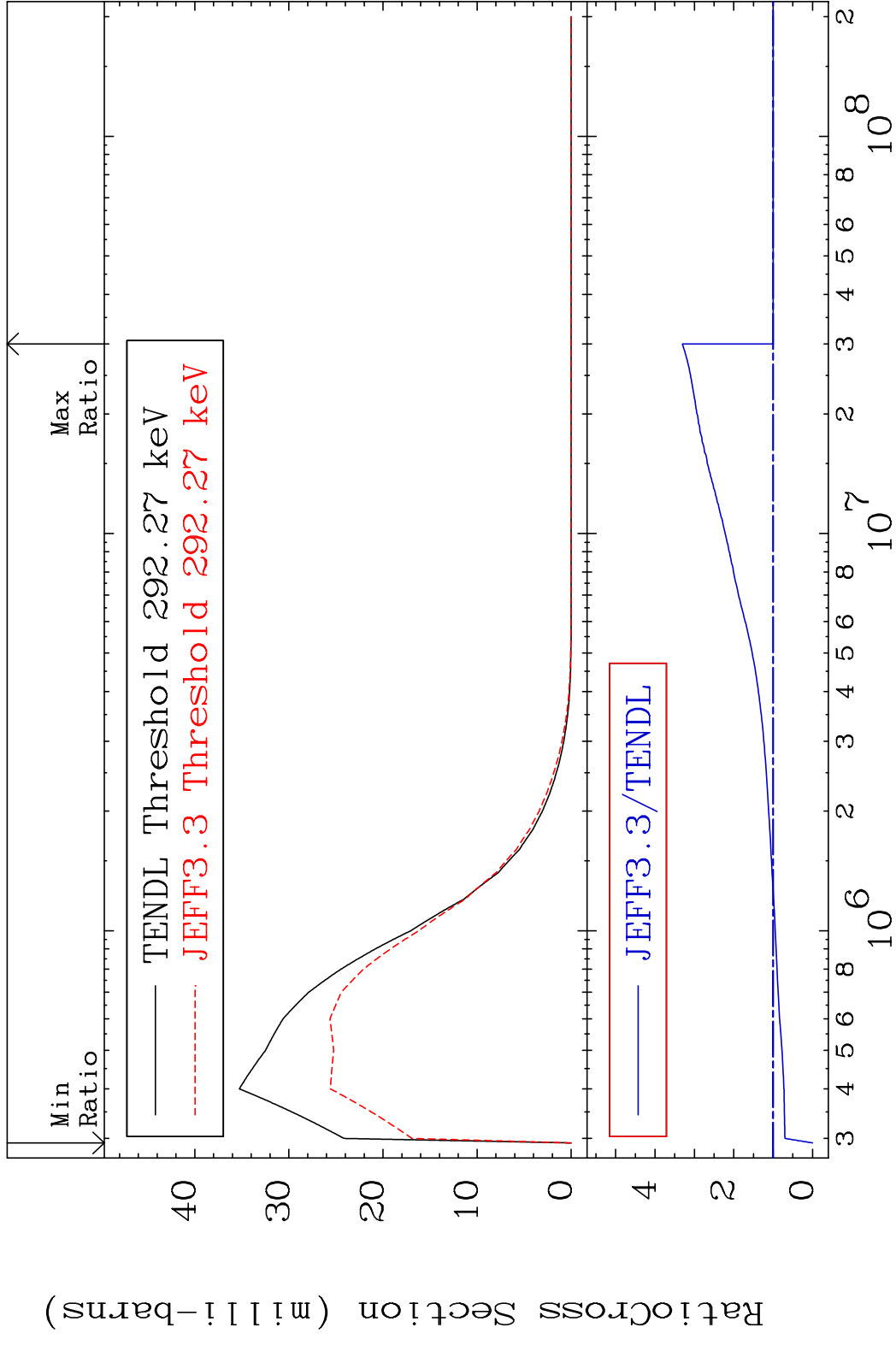
MAT 6428 MT= 62 (n, n') Level 64-Gd-153
 Cross Section -100.0 To 230.5 %



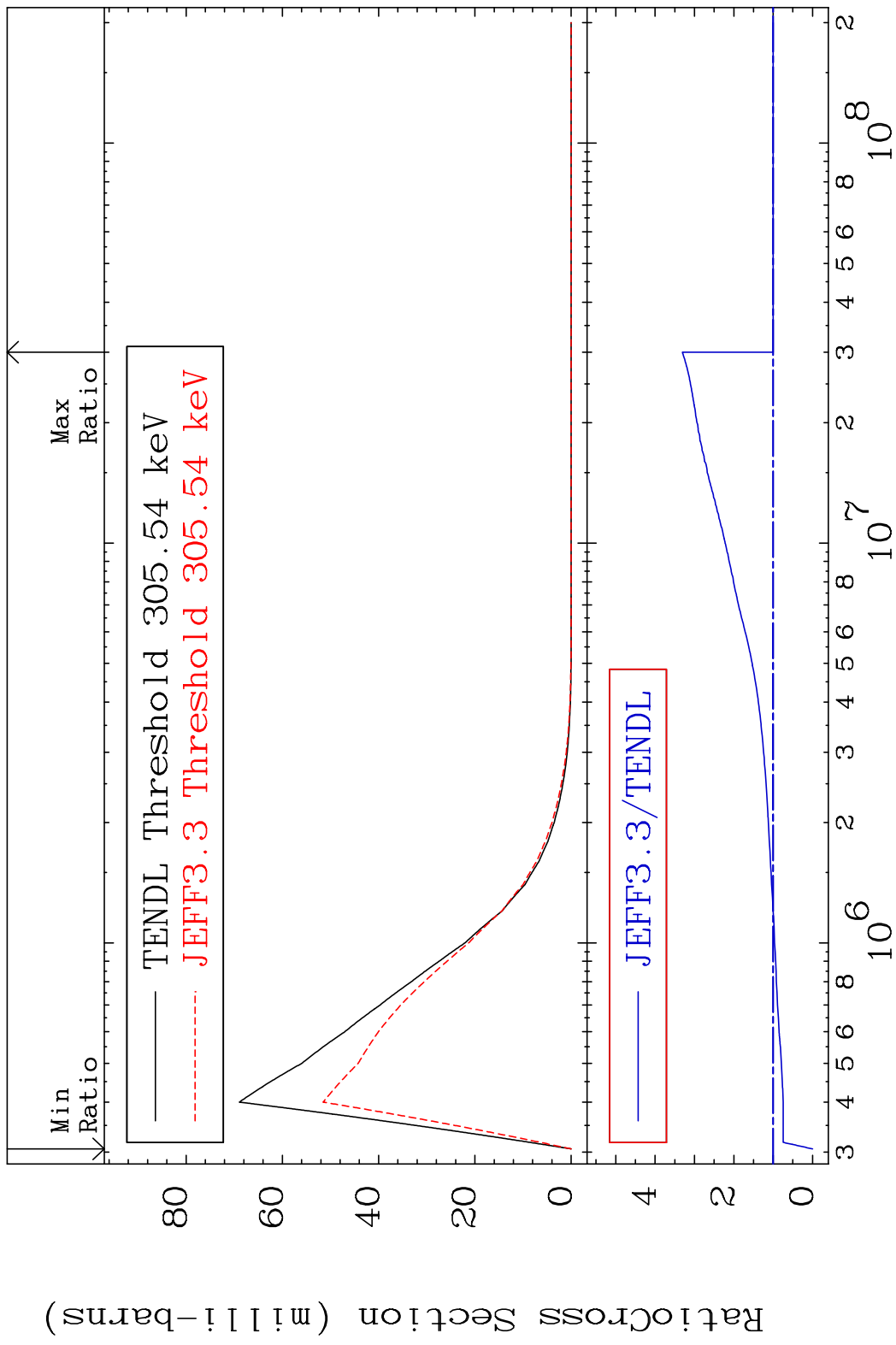
MAT 6428 MT= 63 (n, n') Level 64-Gd-153
 Cross Section -100.0 To 230.8 %



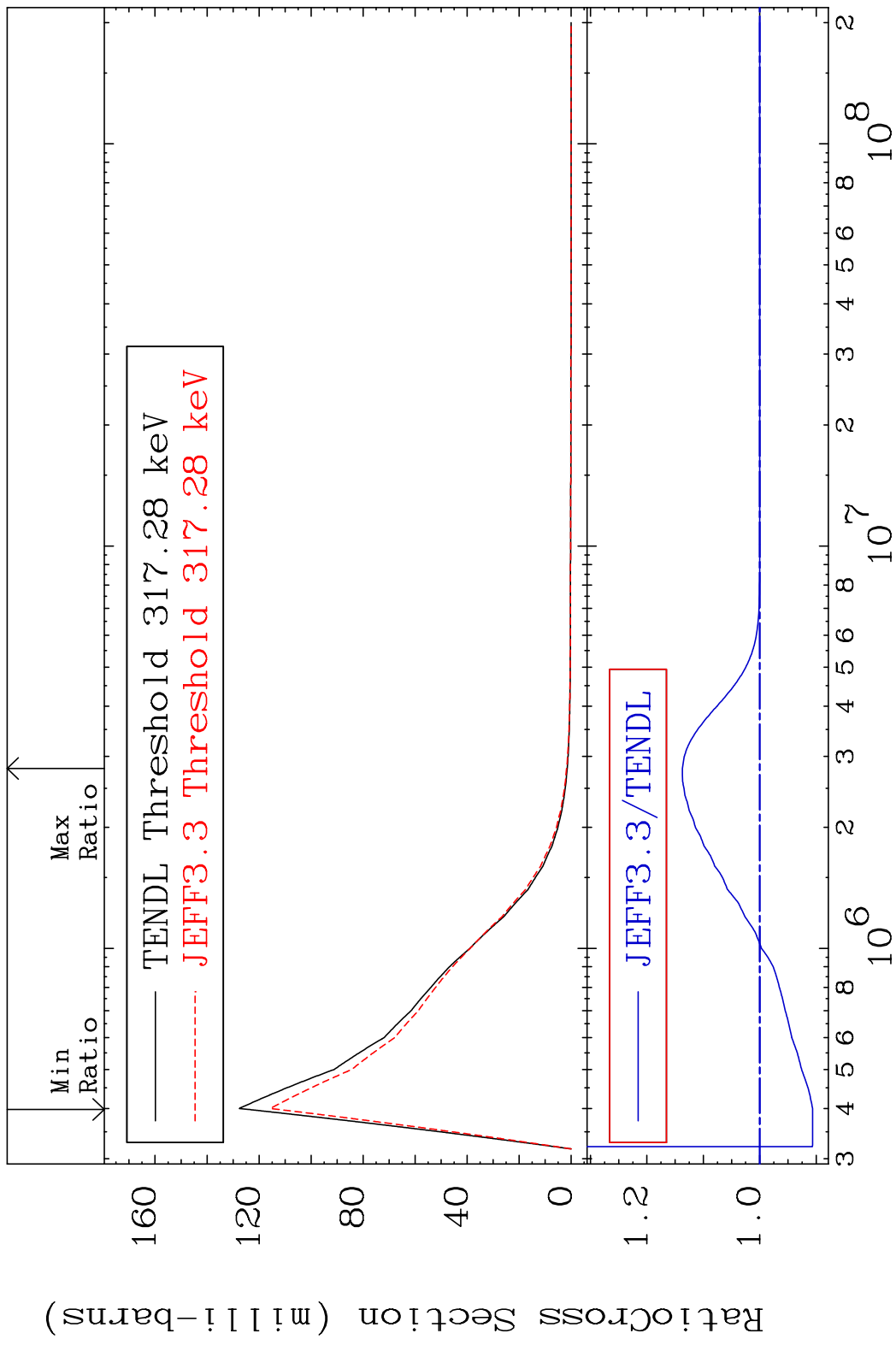
MAT 6428 MT= 64 (n, n') Level 64-Gd-153
 Cross Section -100.0 To 230.7 %



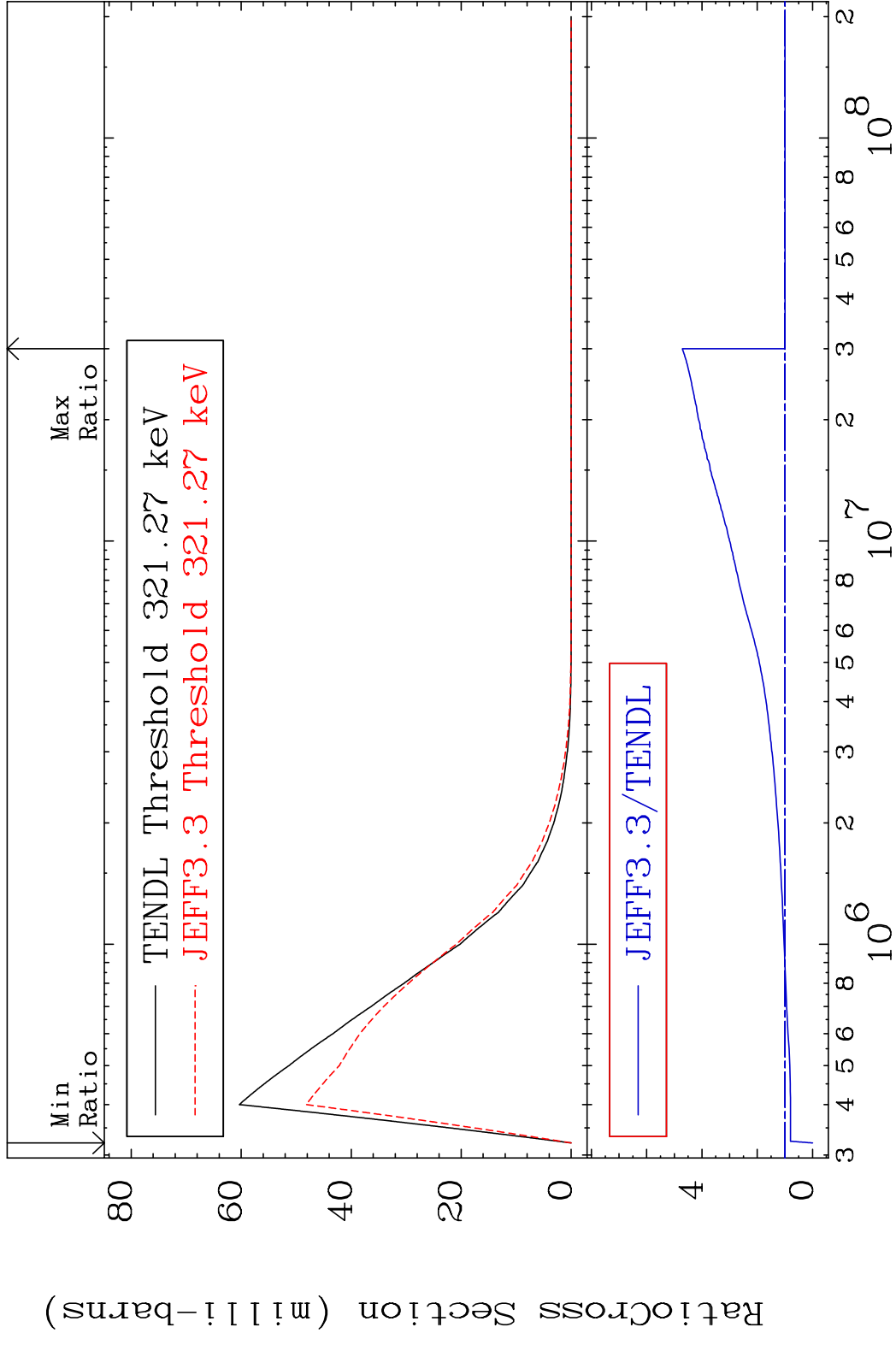
MAT 6428 MT= 65 (n, n') Level 64-Gd-153
 Cross Section -100.0 To 230.8 %



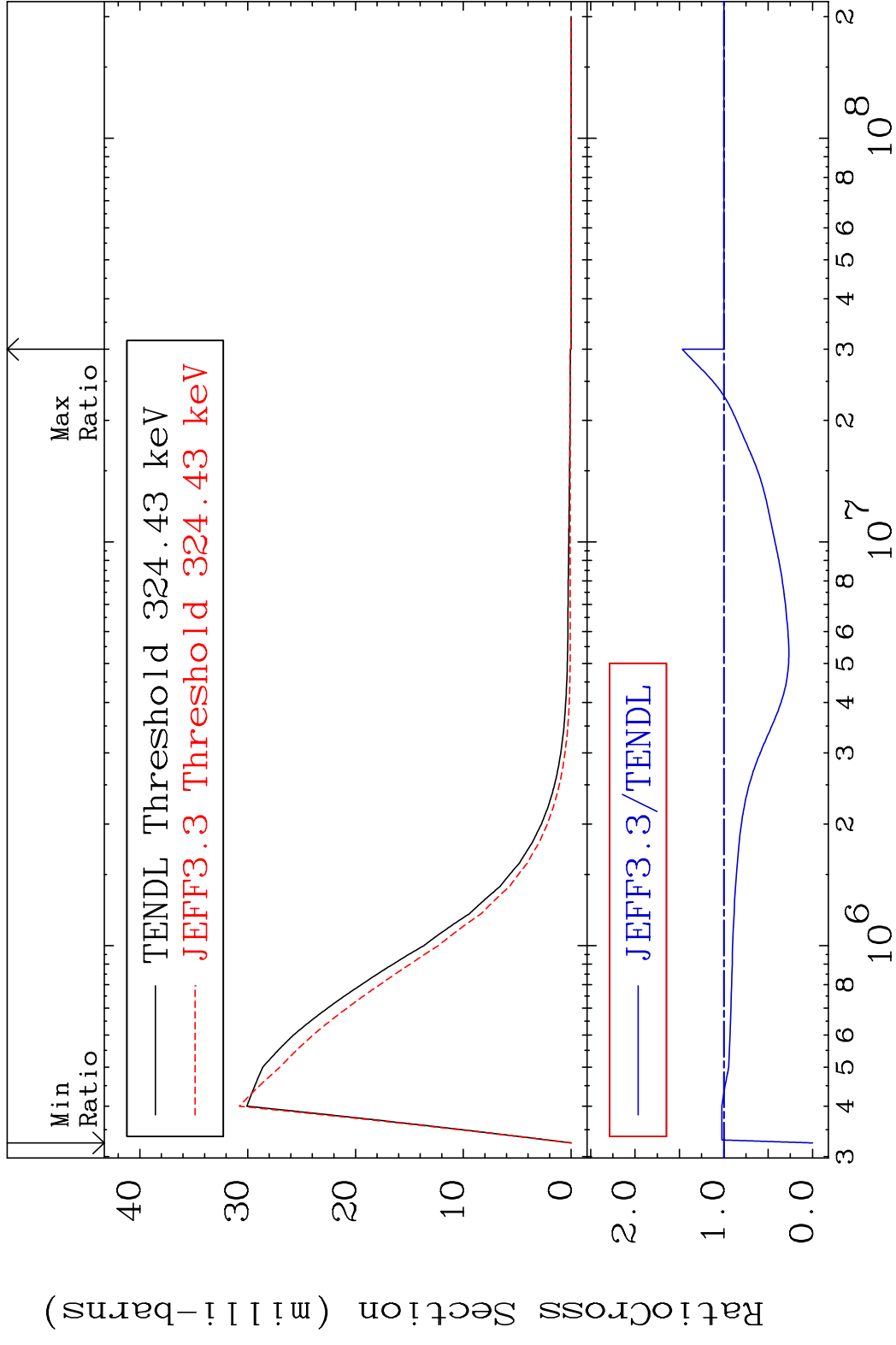
MAT 6428 MT= 66 (n,n') Level 64-Gd-153
 Cross Section -9.362 To 13.72 %



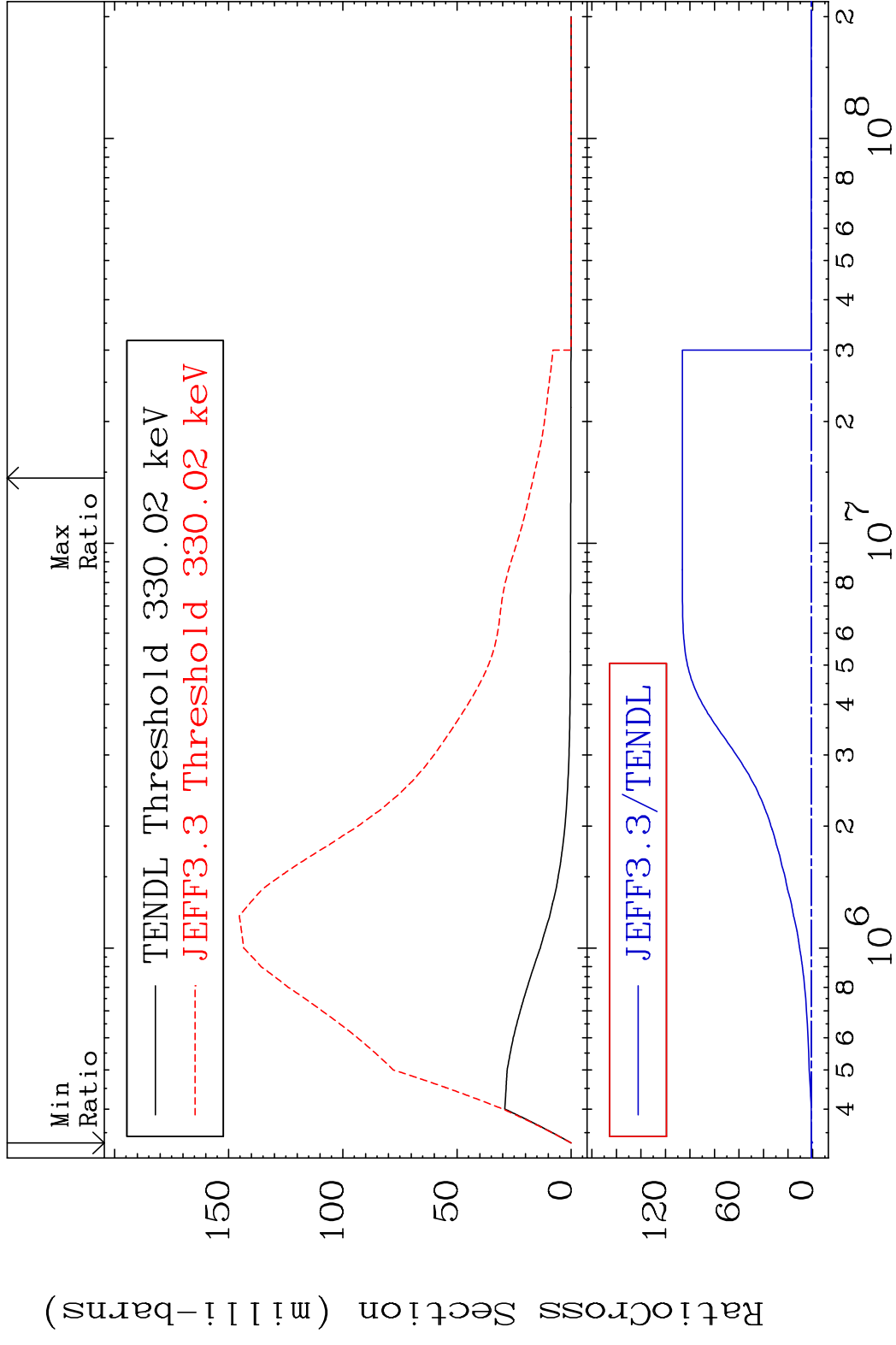
MAT 6428 MT= 67 (n, n') Level 64-Gd-153
 Cross Section -100.0 To 370.9 %



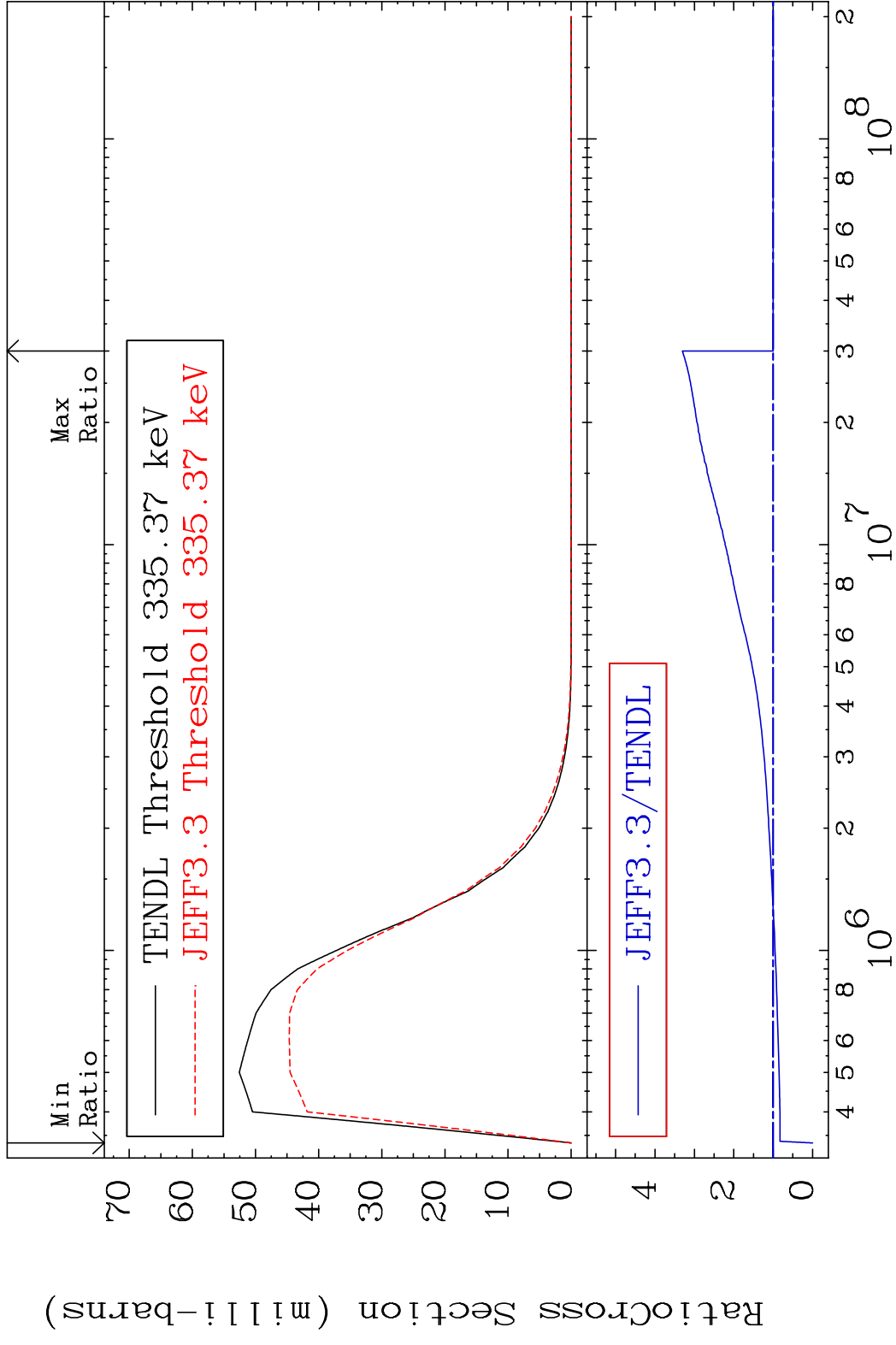
MAT 6428 MT= 68 (n, n') Level 64-Gd-153
 Cross Section -100.0 To 46.71 %



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

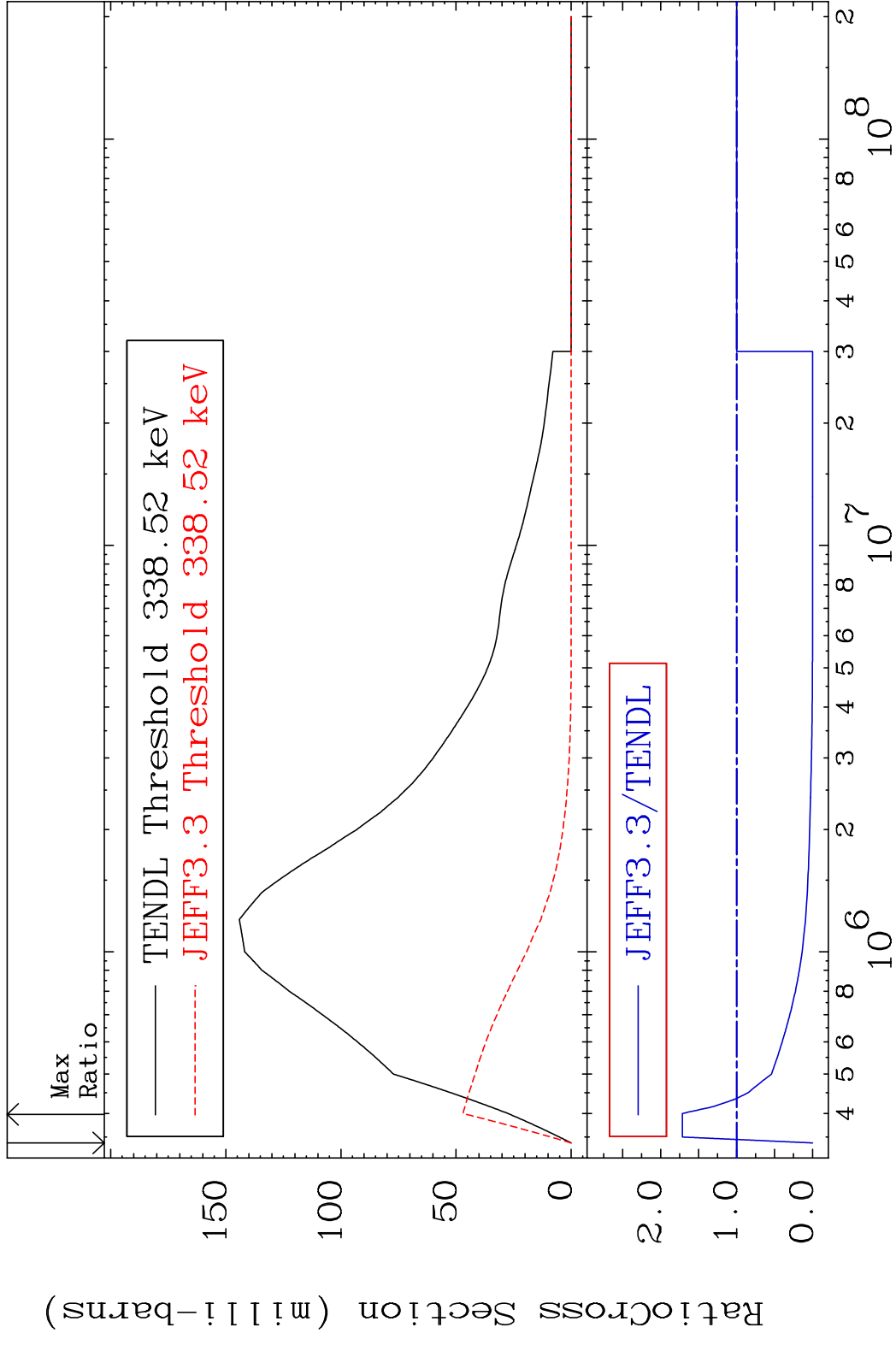


MAT 6428 MT= 70 (n,n') Level 64-Gd-153
 Cross Section -100.0 To 230.5 %

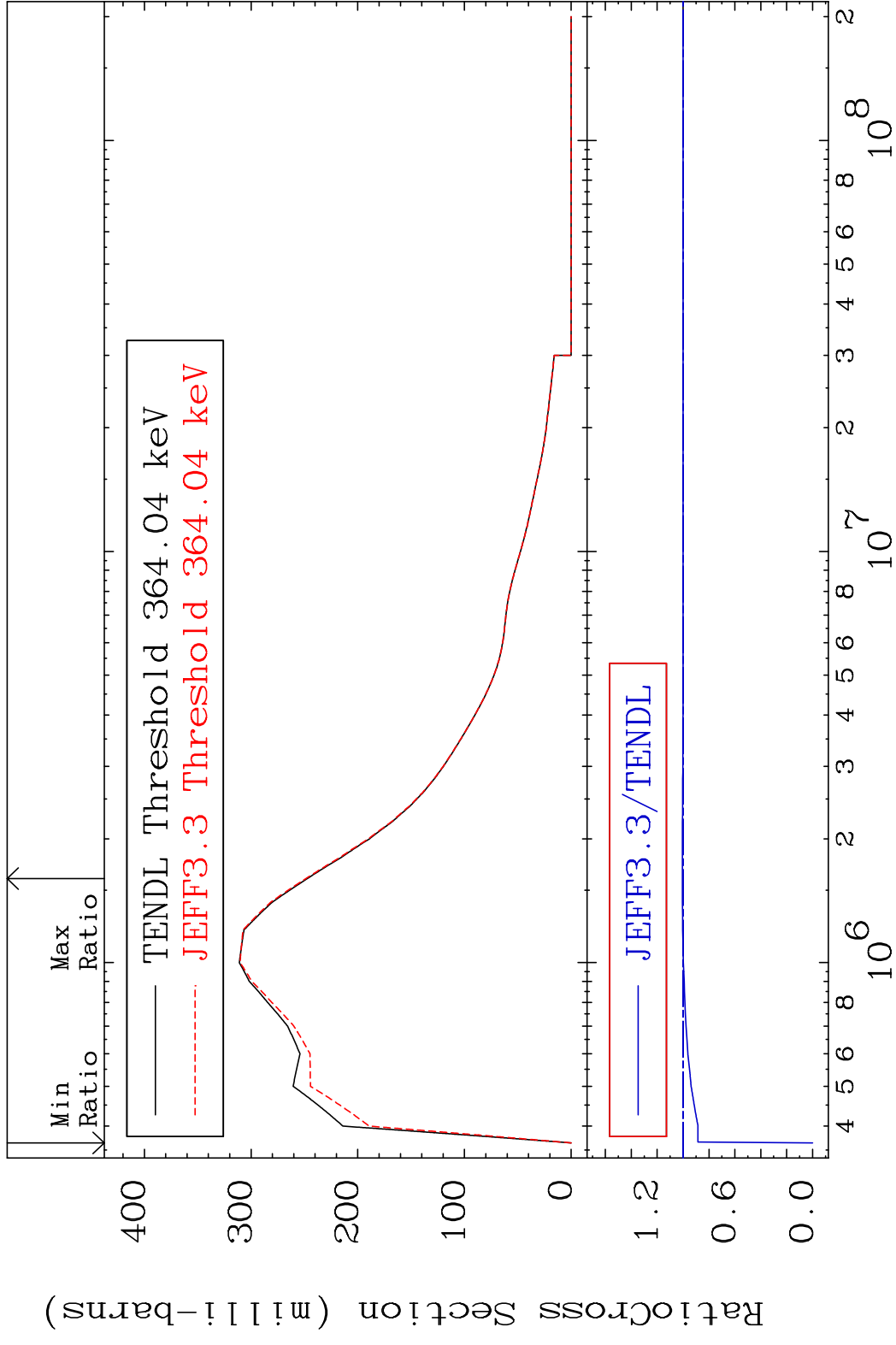


40 Incident Energy (eV) 64-Gd-153

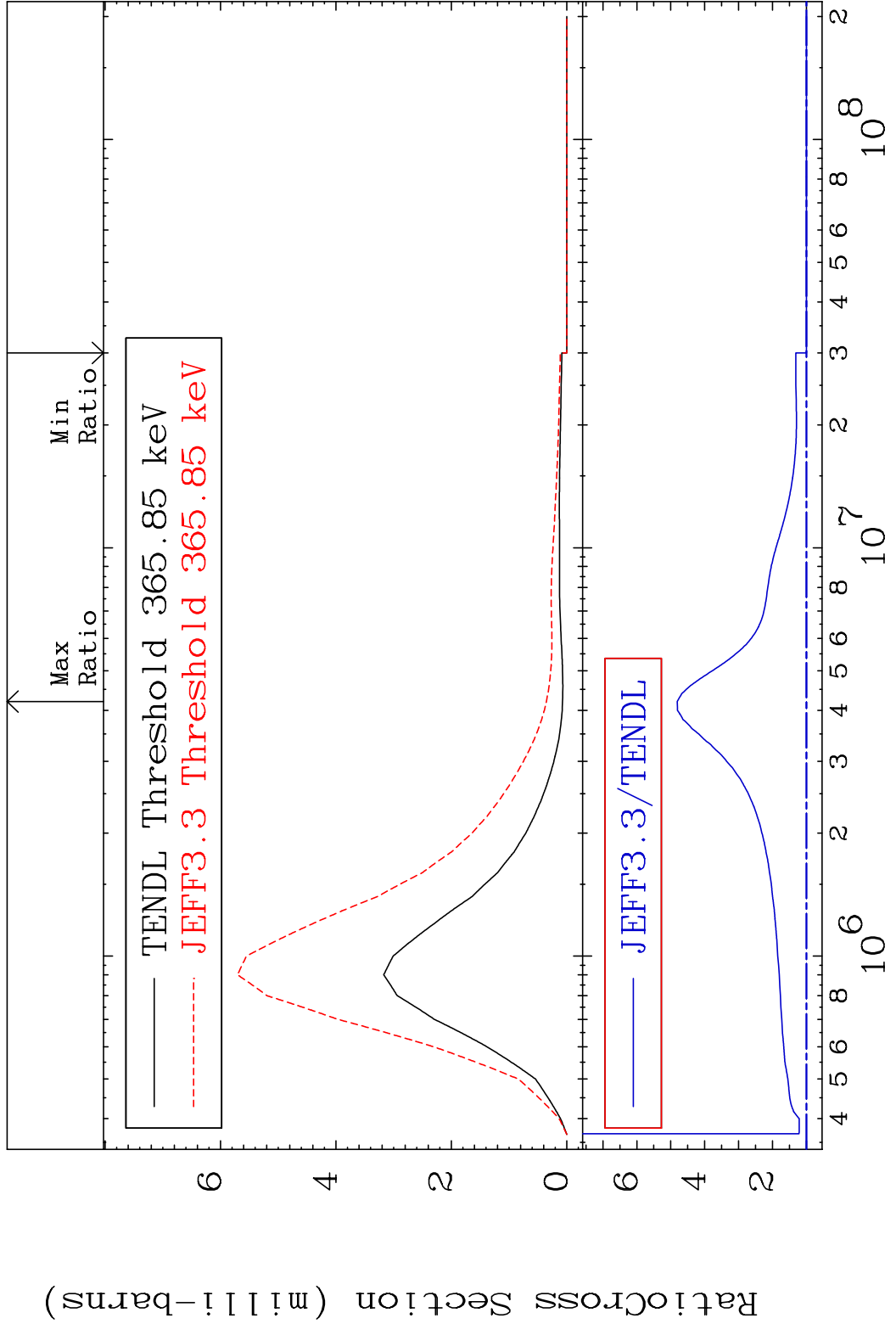
MAT 6428 MT= 71 (n,n') Level 64-Gd-153
 Cross Section -100.0 To 71.38 %



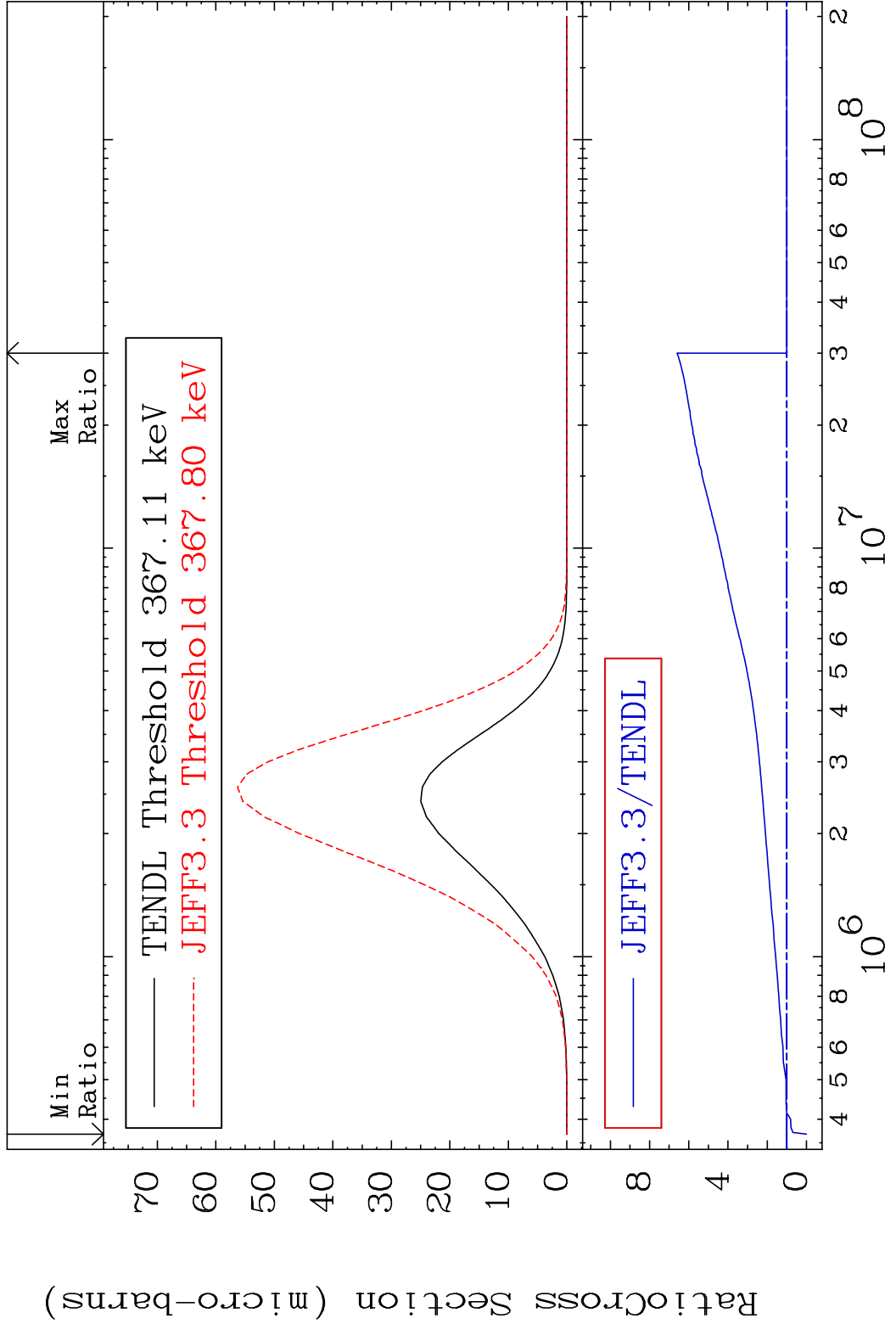
MAT 6428 MT= 72 (n,n') Level 64-Gd-153
 Cross Section -100.0 To 0.556 %



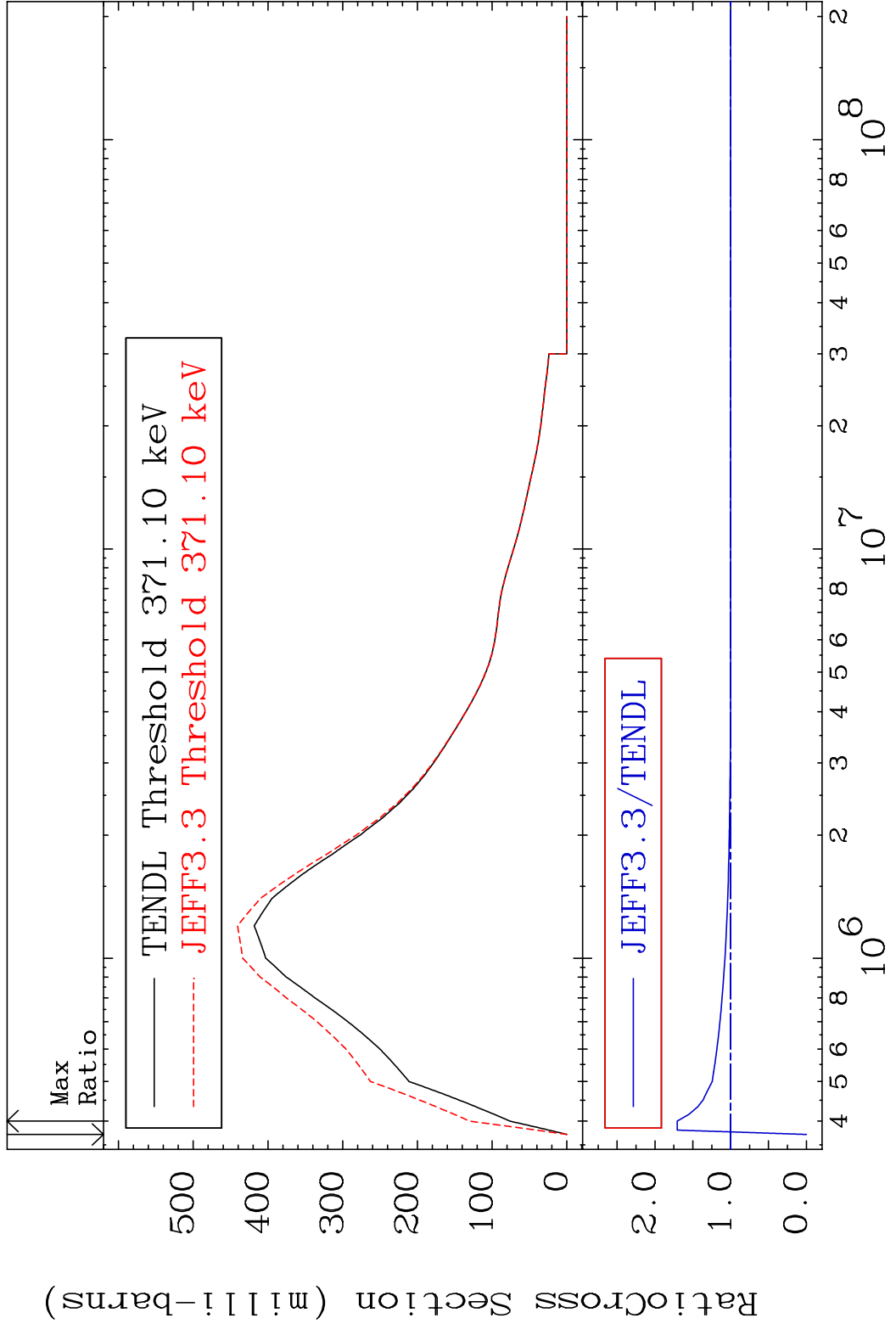
MAT 6428 MT= 73 (n, n') Level 64-Gd-153
 Cross Section 0.000 To 381.0 %



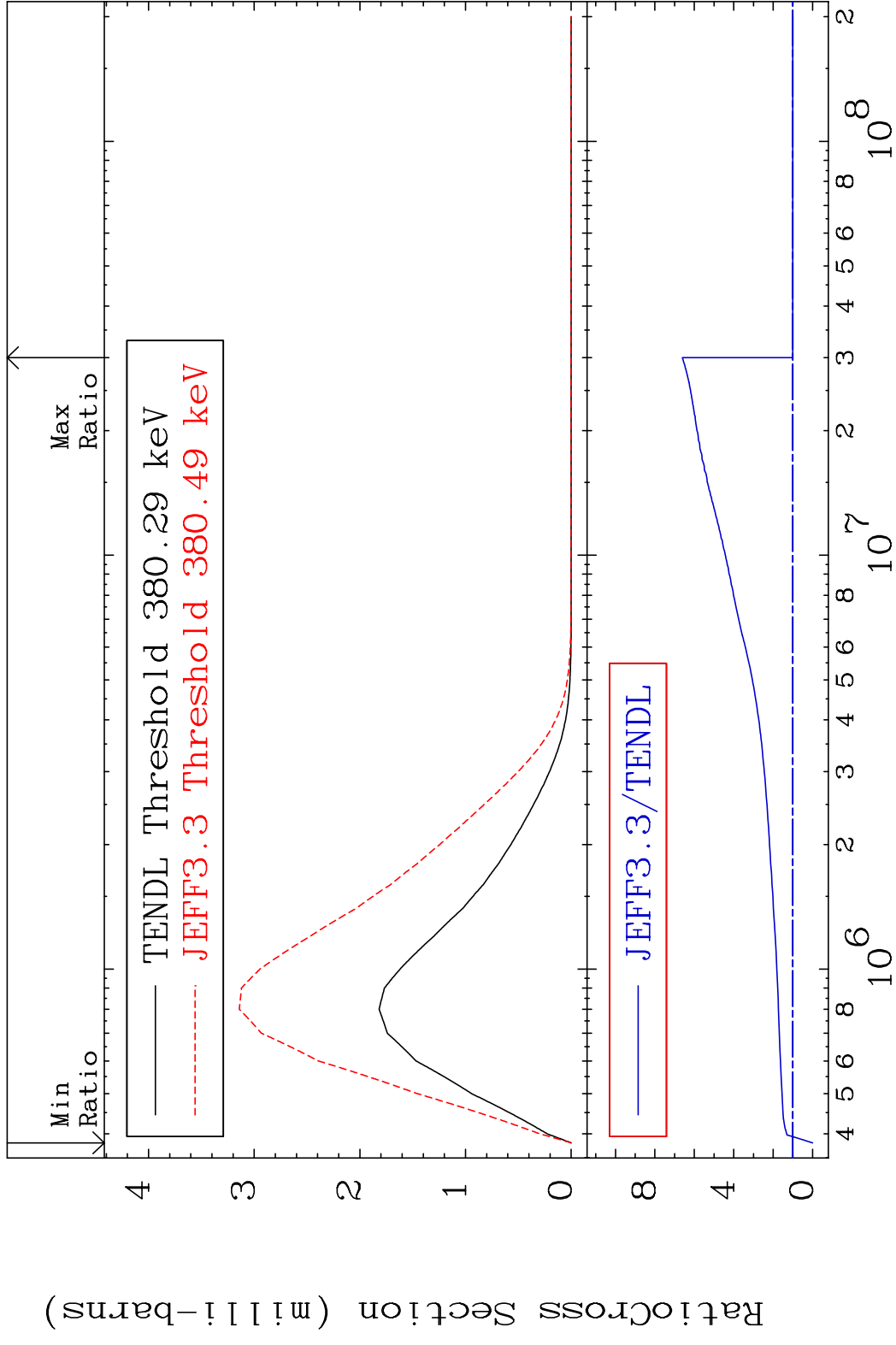
MAT 6428 MT= 74 (n, n') Level 64-Gd-153
 Cross Section -100.0 To 559.2 %



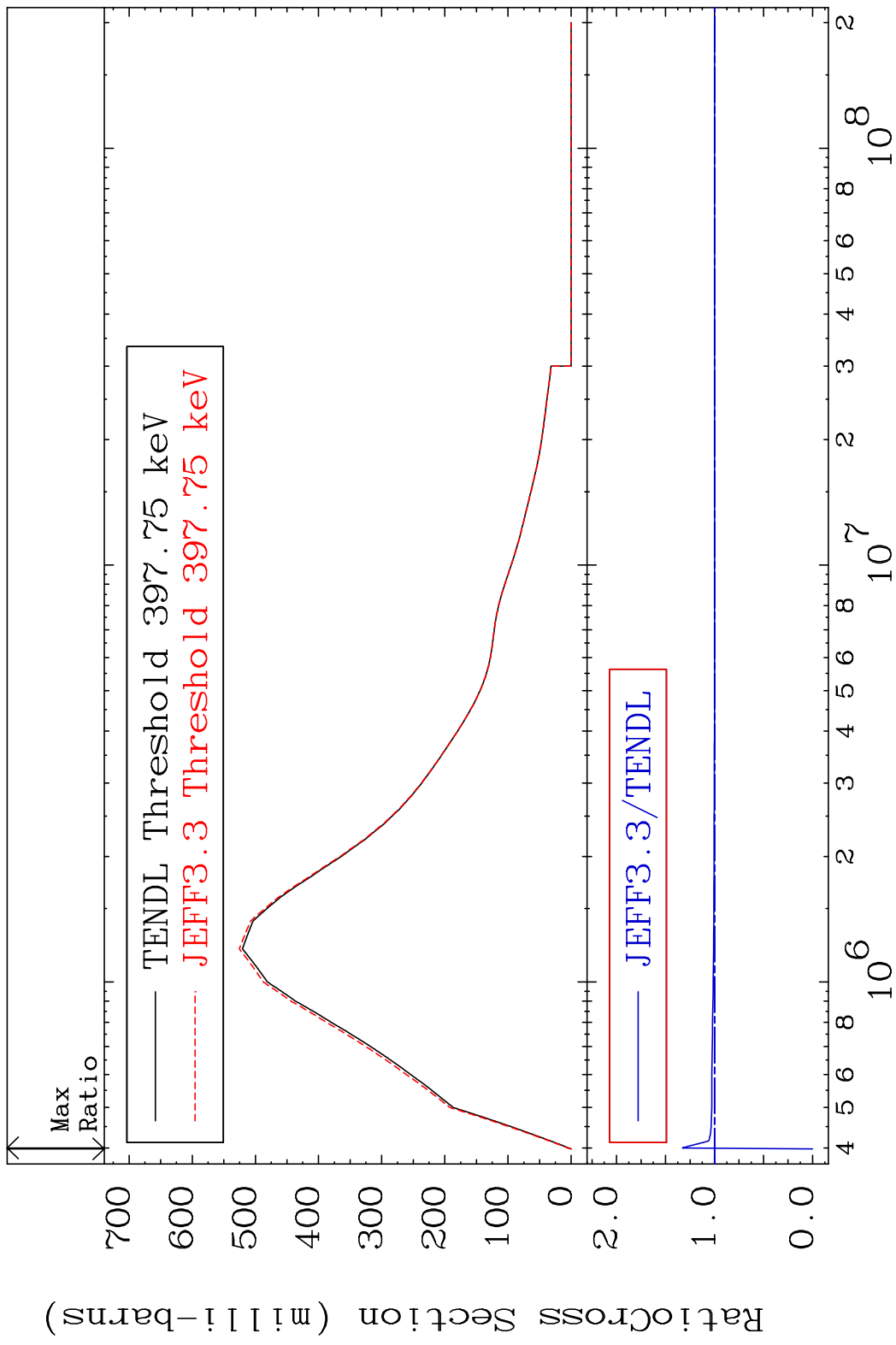
MAT 6428 MT= 75 (n,n') Level 64-Gd-153
 Cross Section -100.0 To 70.65 %



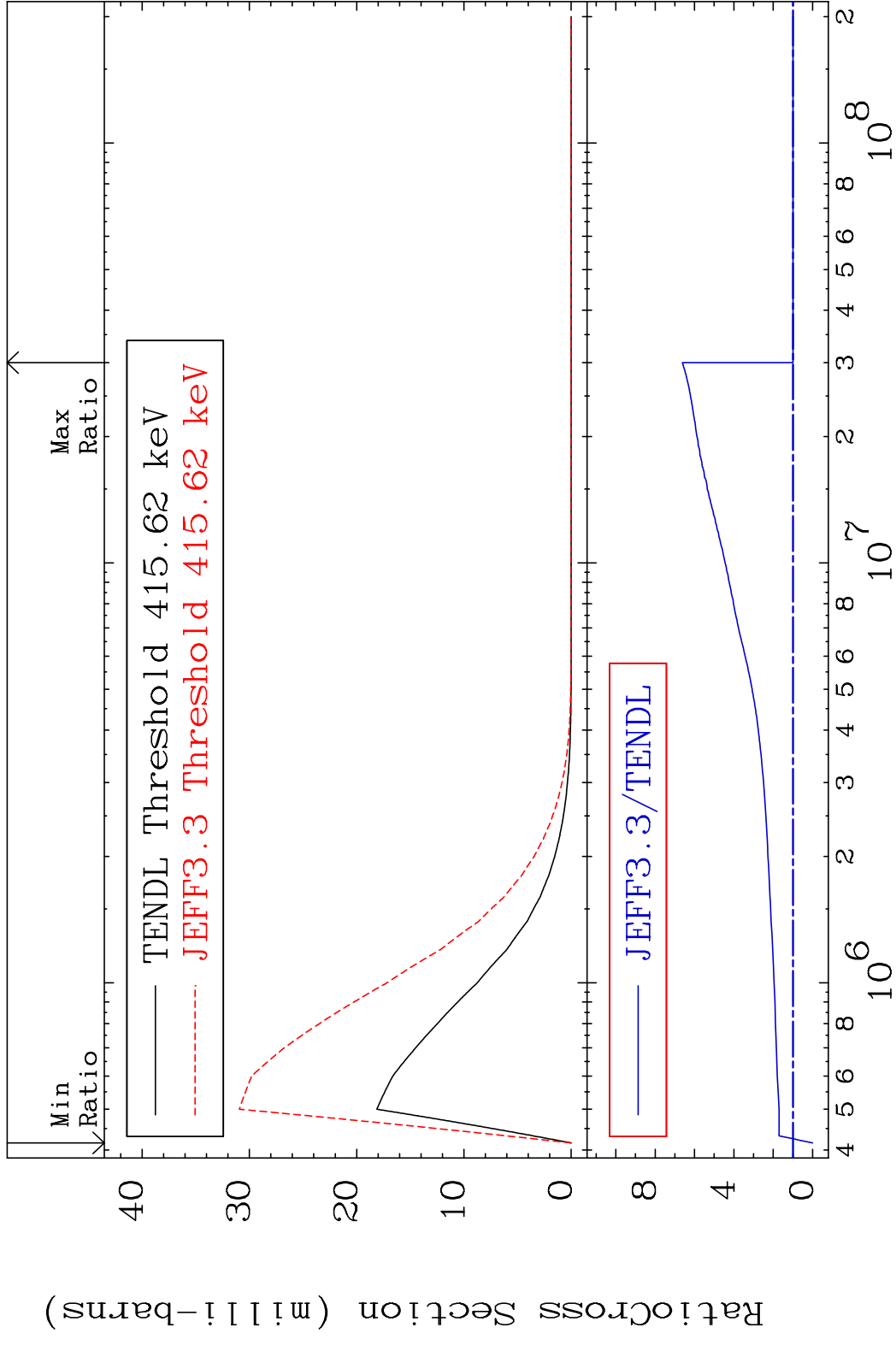
MAT 6428 MT= 76 (n,n') Level 64-Gd-153
 Cross Section -100.0 To 560.7 %



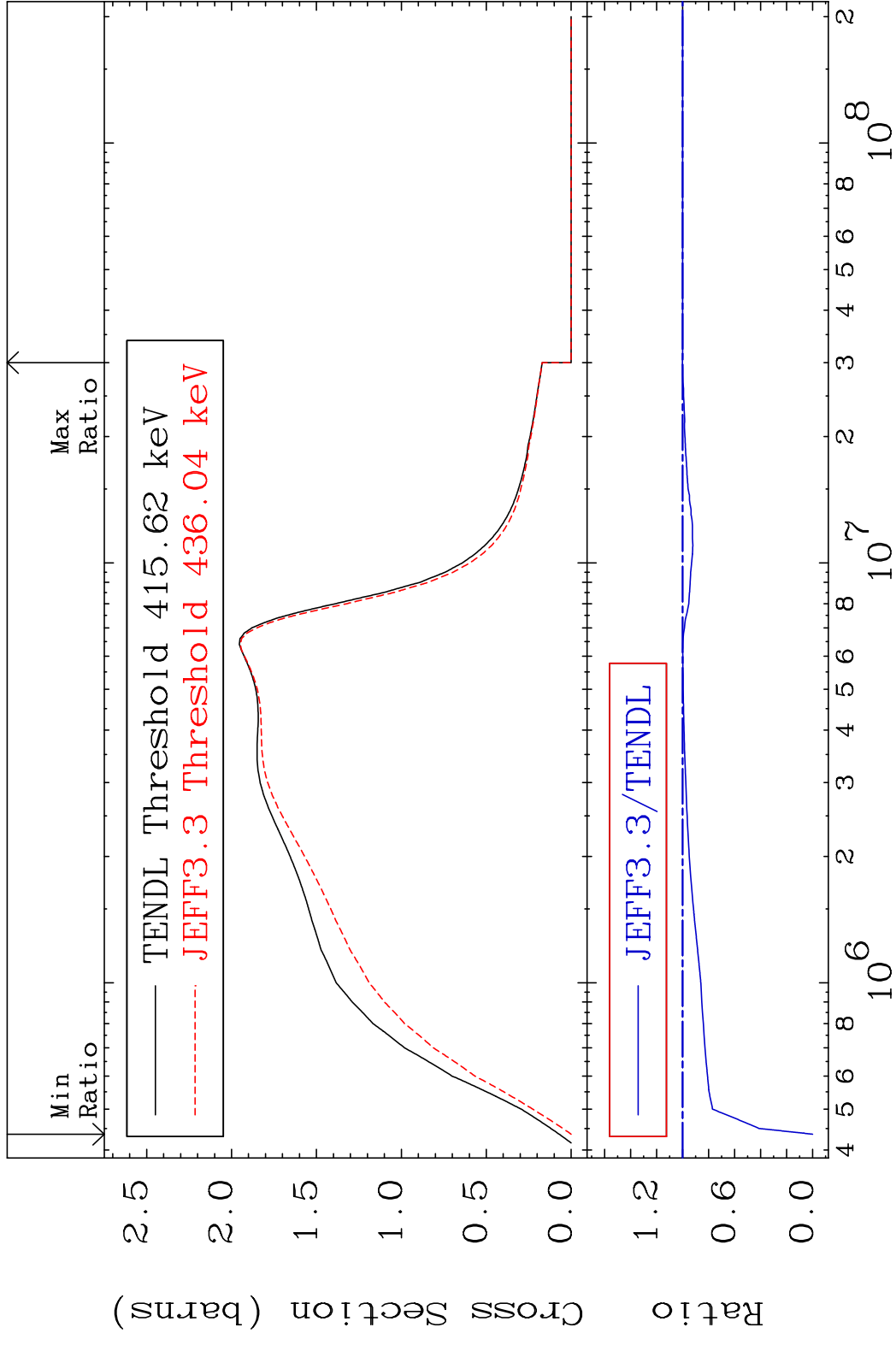
MAT 6428 MT= 77 (n, n') Level 64-Gd-153
 Cross Section -100.0 To 32.83 %



MAT 6428 MT= 78 (n, n') Level 64-Gd-153
 Cross Section -100.0 To 561.8 %



MAT 6428 (n,n') Continuum 64-Gd-153
 Cross Section -100.0 To 0.168 %

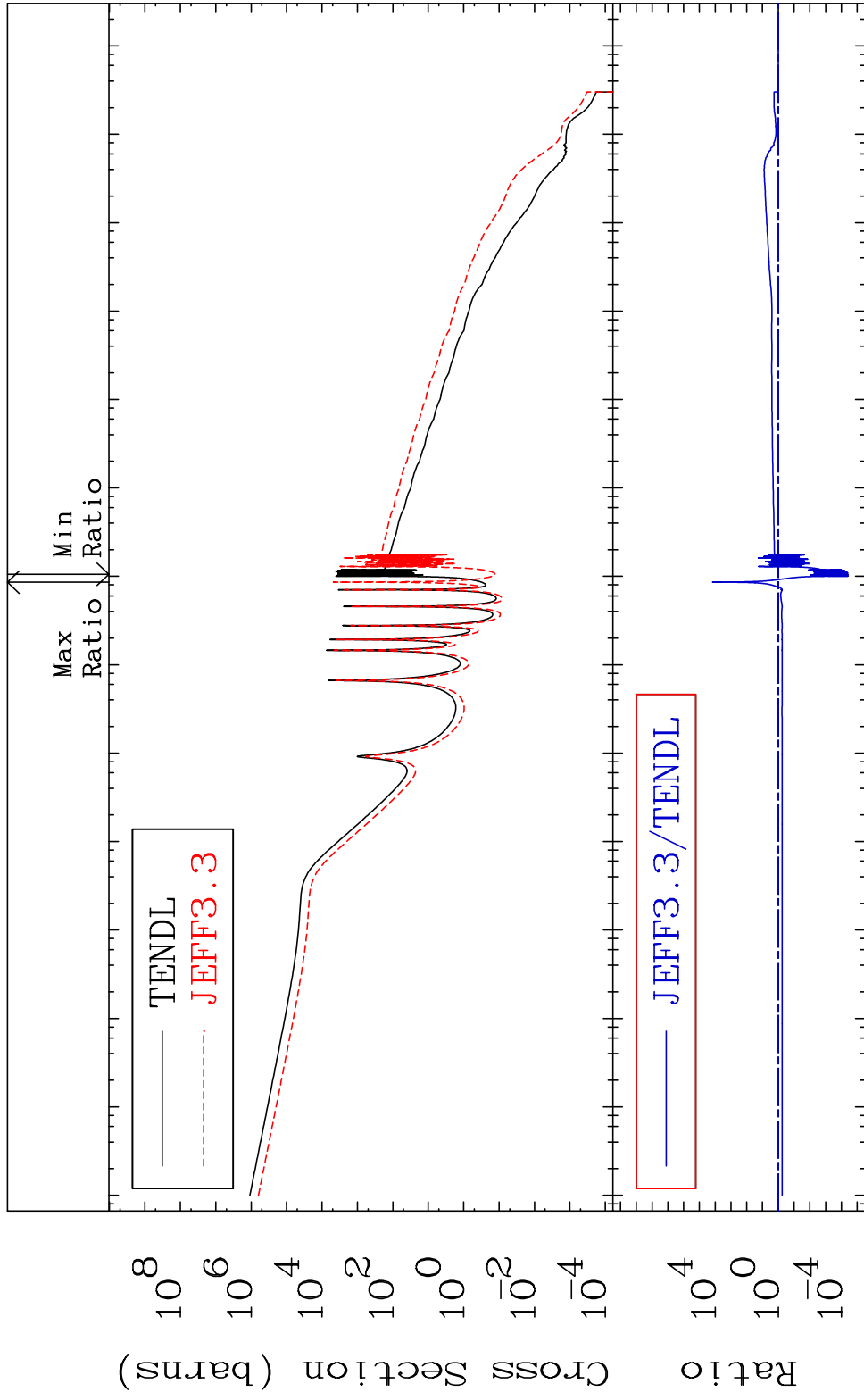


MAT 6428

(n, γ)

64-Gd-153

Cross Section -100.0 To 9999. %



50

Incident Energy (eV)

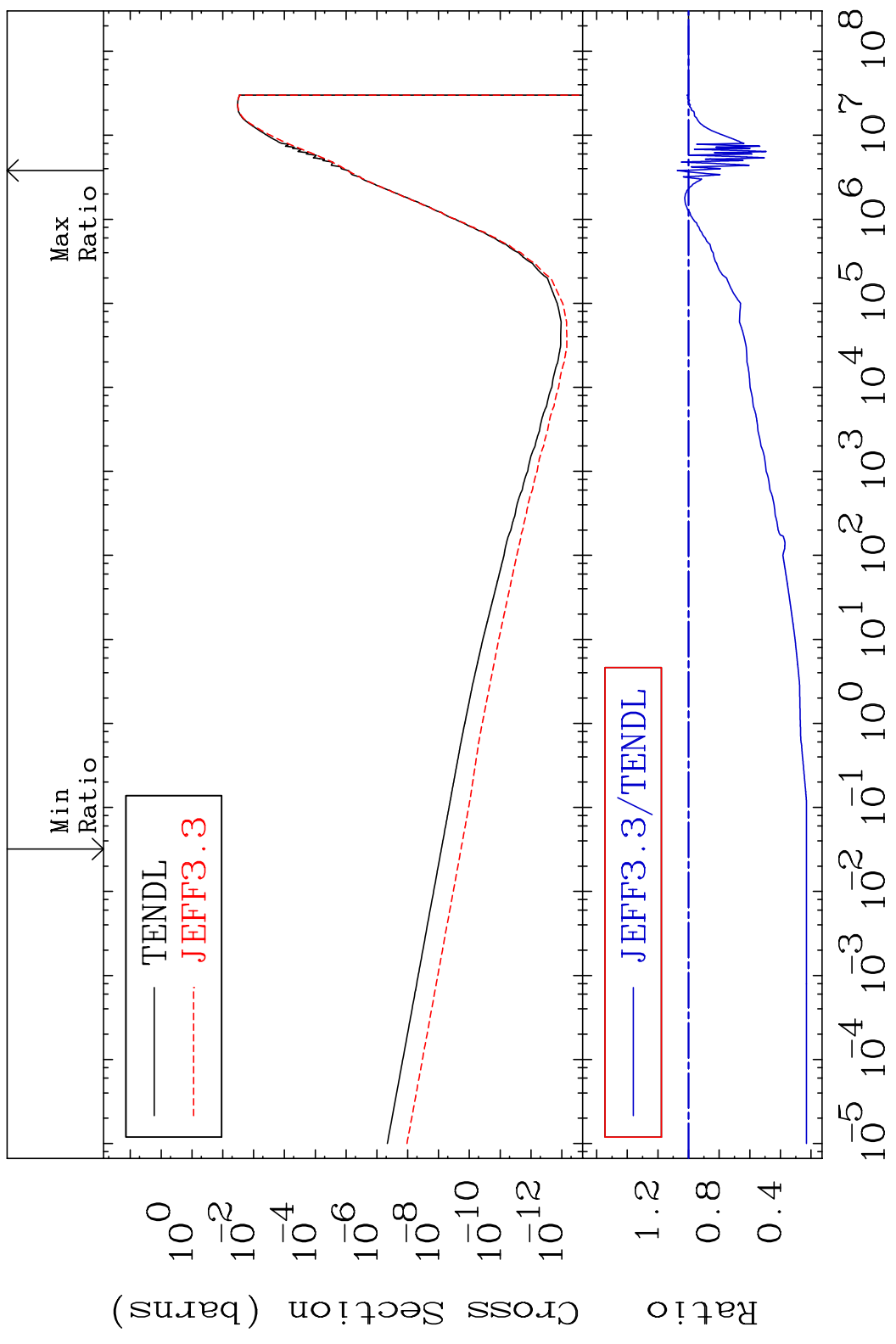
64-Gd-153

MAT 6428

(n, p)

64-Gd-153

Cross Section -76.95 To 7.415 %

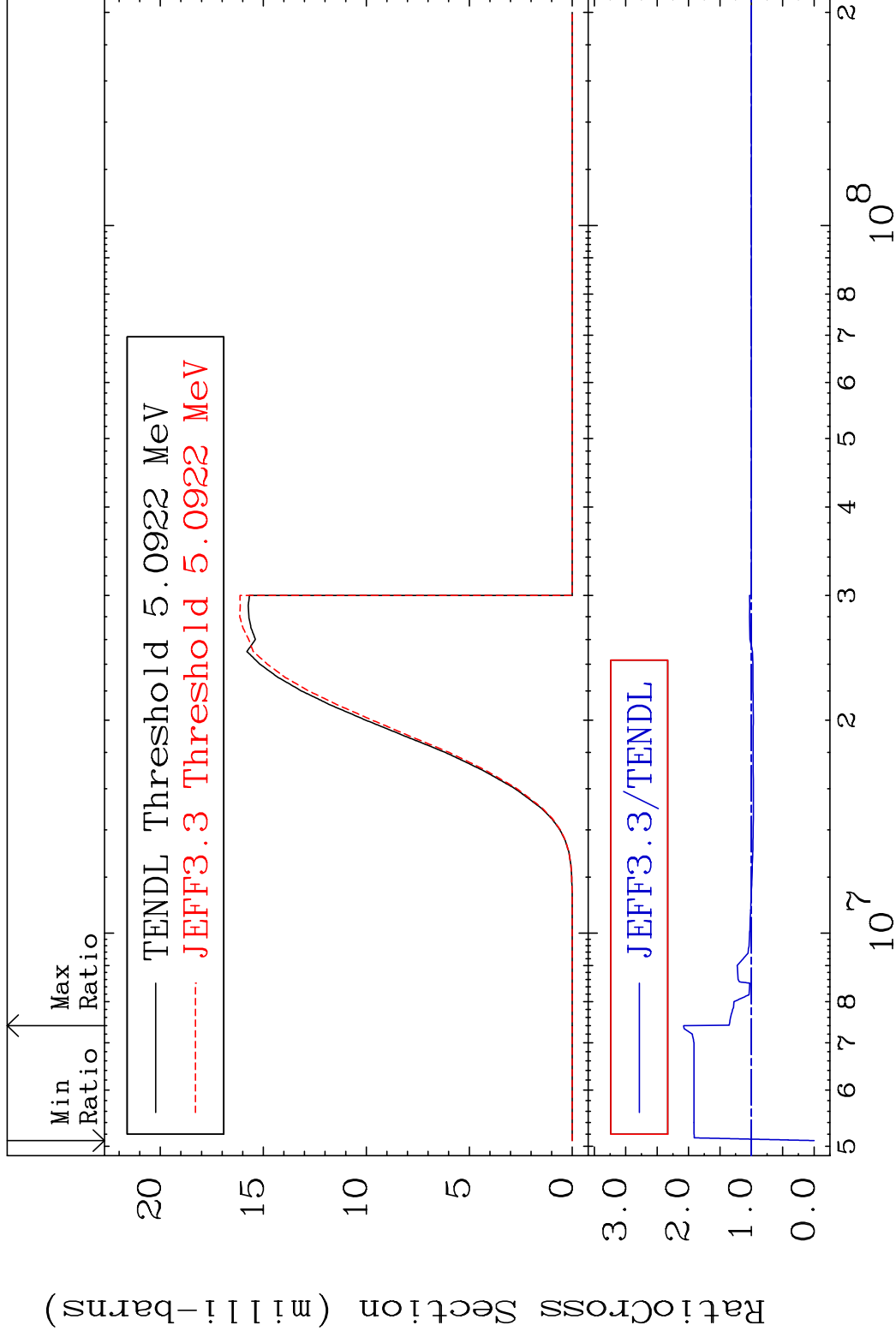


MAT 6428

(n, d)

64-Gd-153

Cross Section -100.0 To 107.8 %



52

Incident Energy (eV)

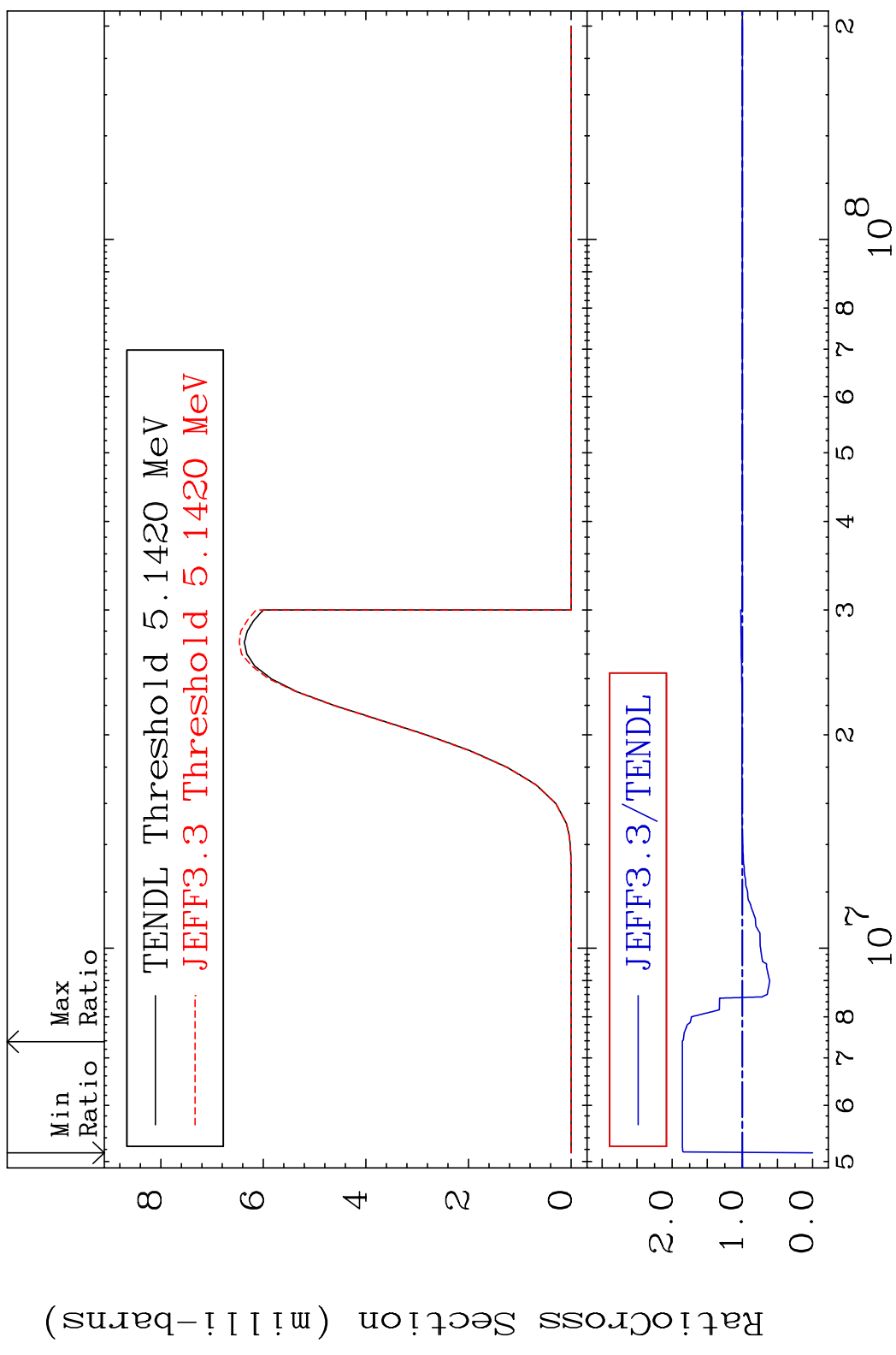
64-Gd-153

MAT 6428

(n, t)

64-Gd-153

Cross Section -100.0 To 85.52 %

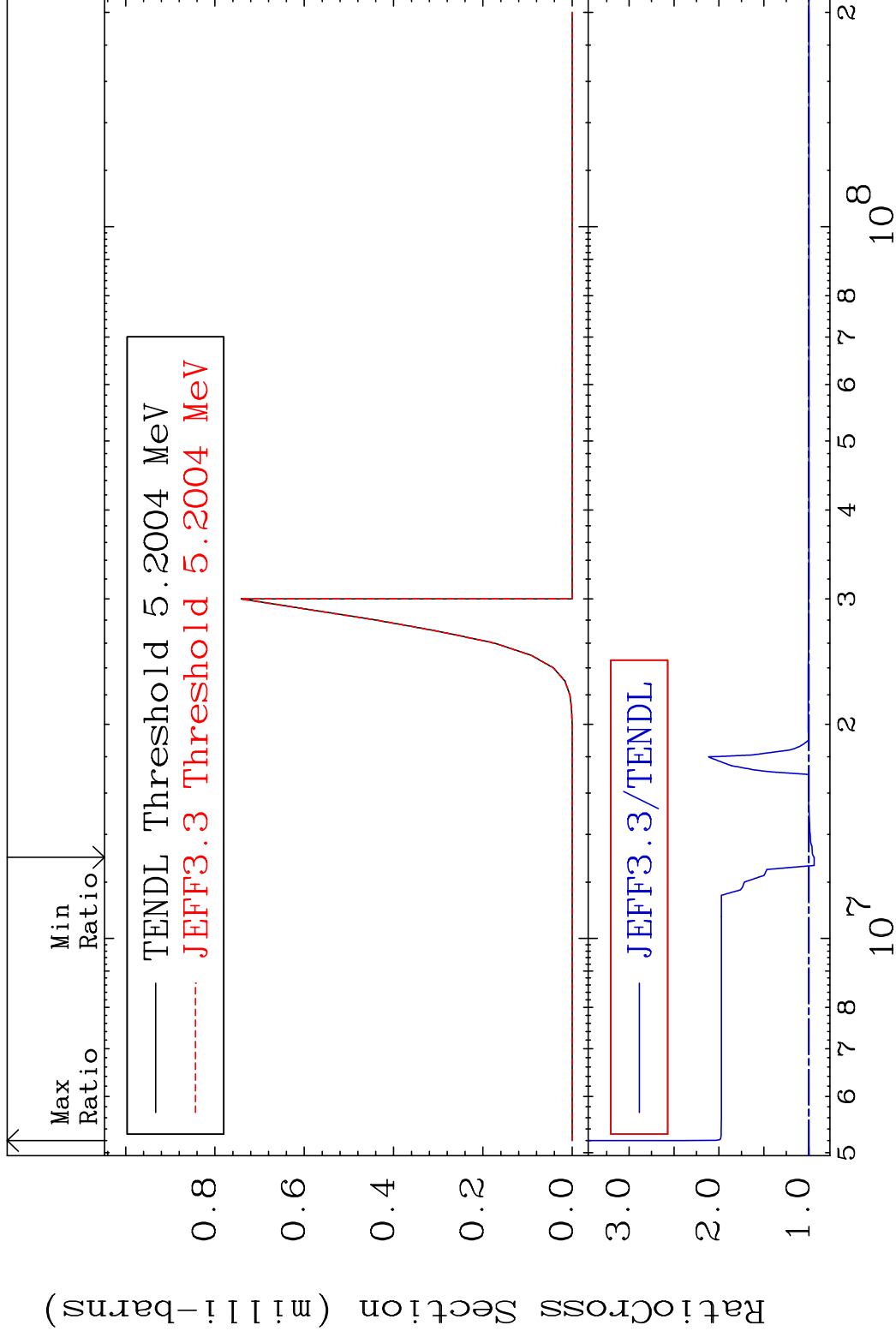


MAT 6428

(n, He-3)

64-Gd-153

Cross Section -5.918 To 139.2 %



54

Incident Energy (eV)

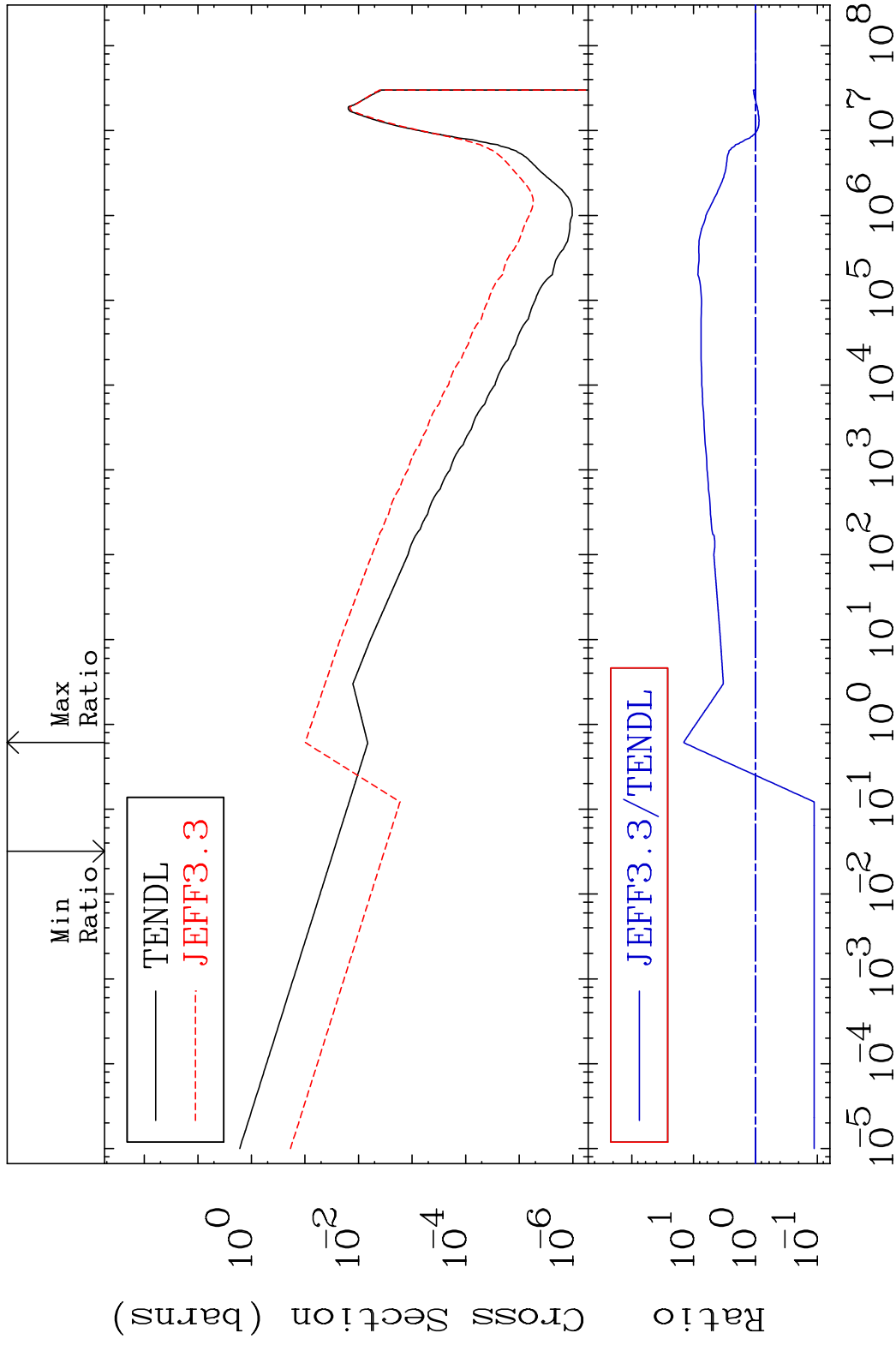
64-Gd-153

MAT 6428

(n, α)

64-Gd-153

Cross Section -88.75 To 1349. %



55

Incident Energy (eV)

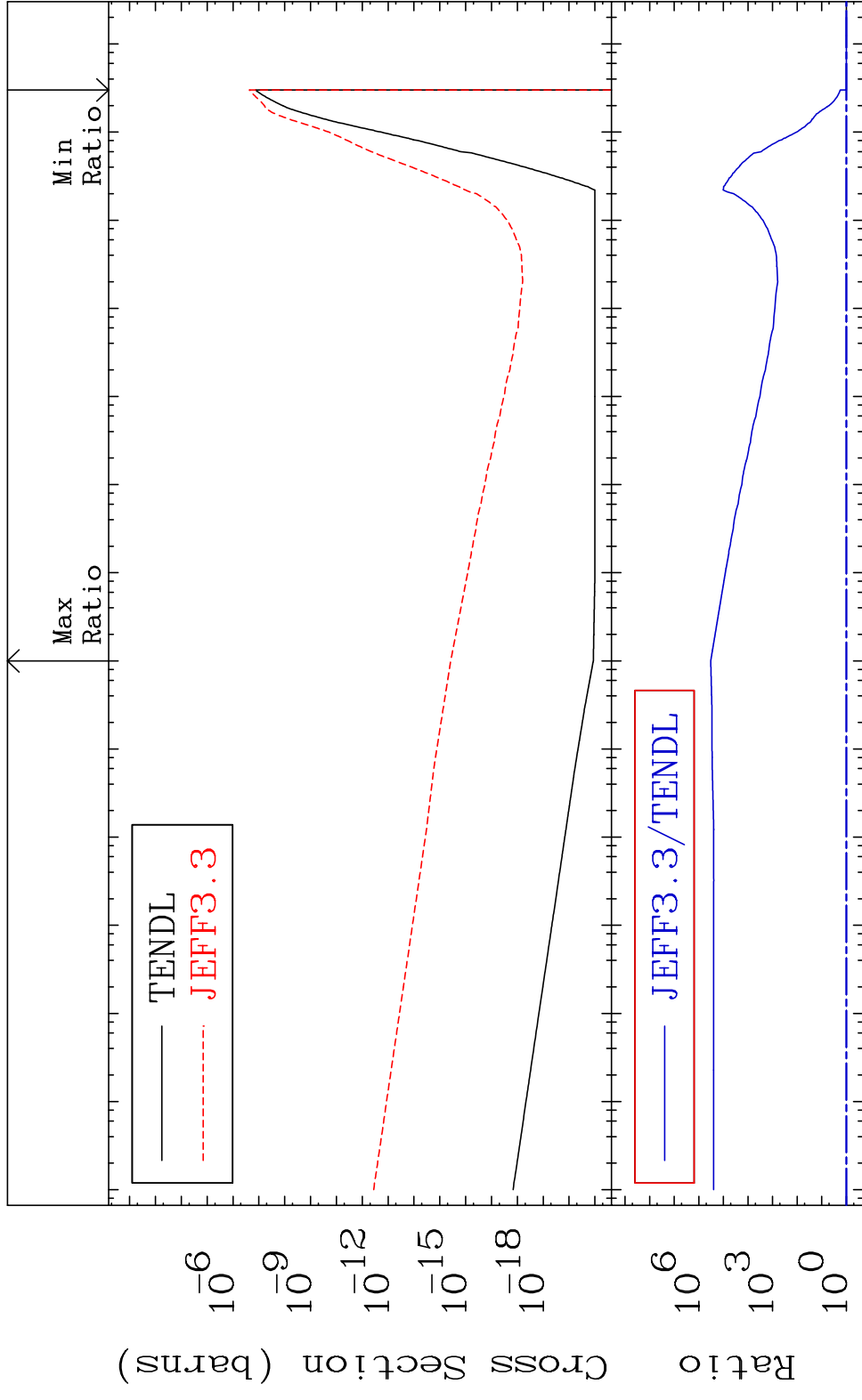
64-Gd-153

MAT 6428

(n, 2α)

64-Gd-153

Cross Section 0.000 To 9999. %

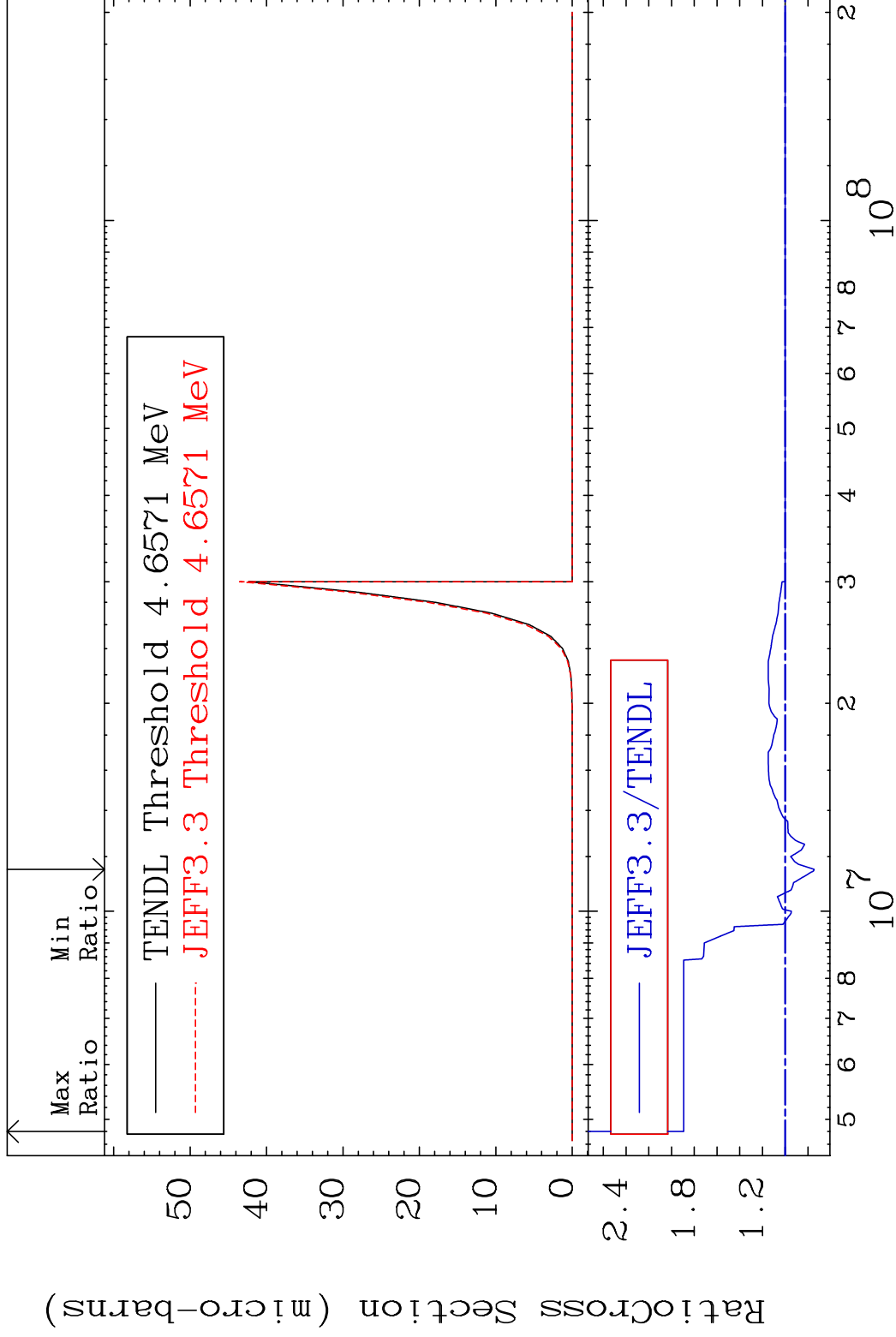


MAT 6428

(n,2p)

64-Gd-153

Cross Section -25.42 To 89.35 %



57

Incident Energy (eV)

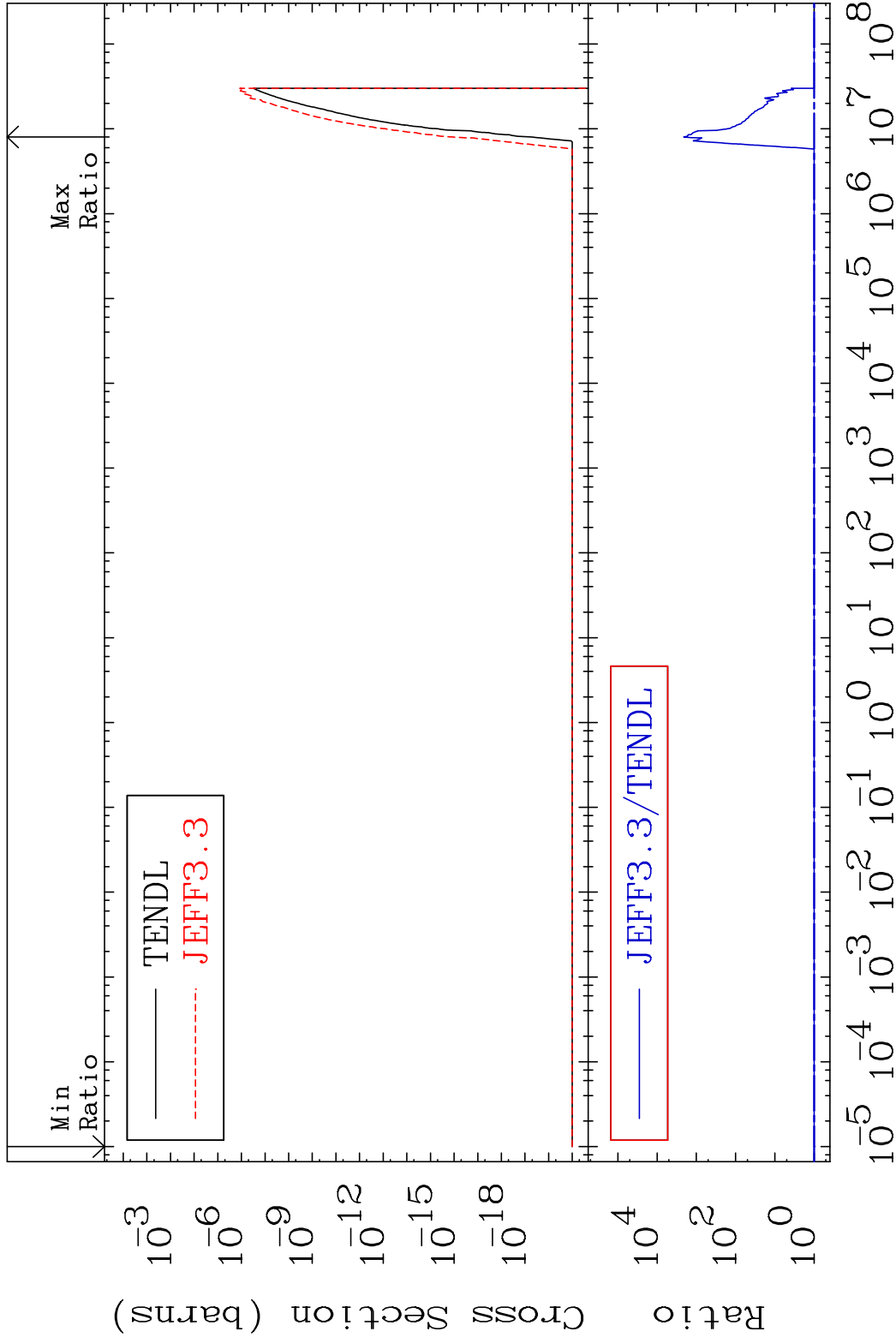
64-Gd-153

MAT 6428

(n,p) α

64-Gd-153

Cross Section 0.000 To 9999. %



58

Incident Energy (eV)

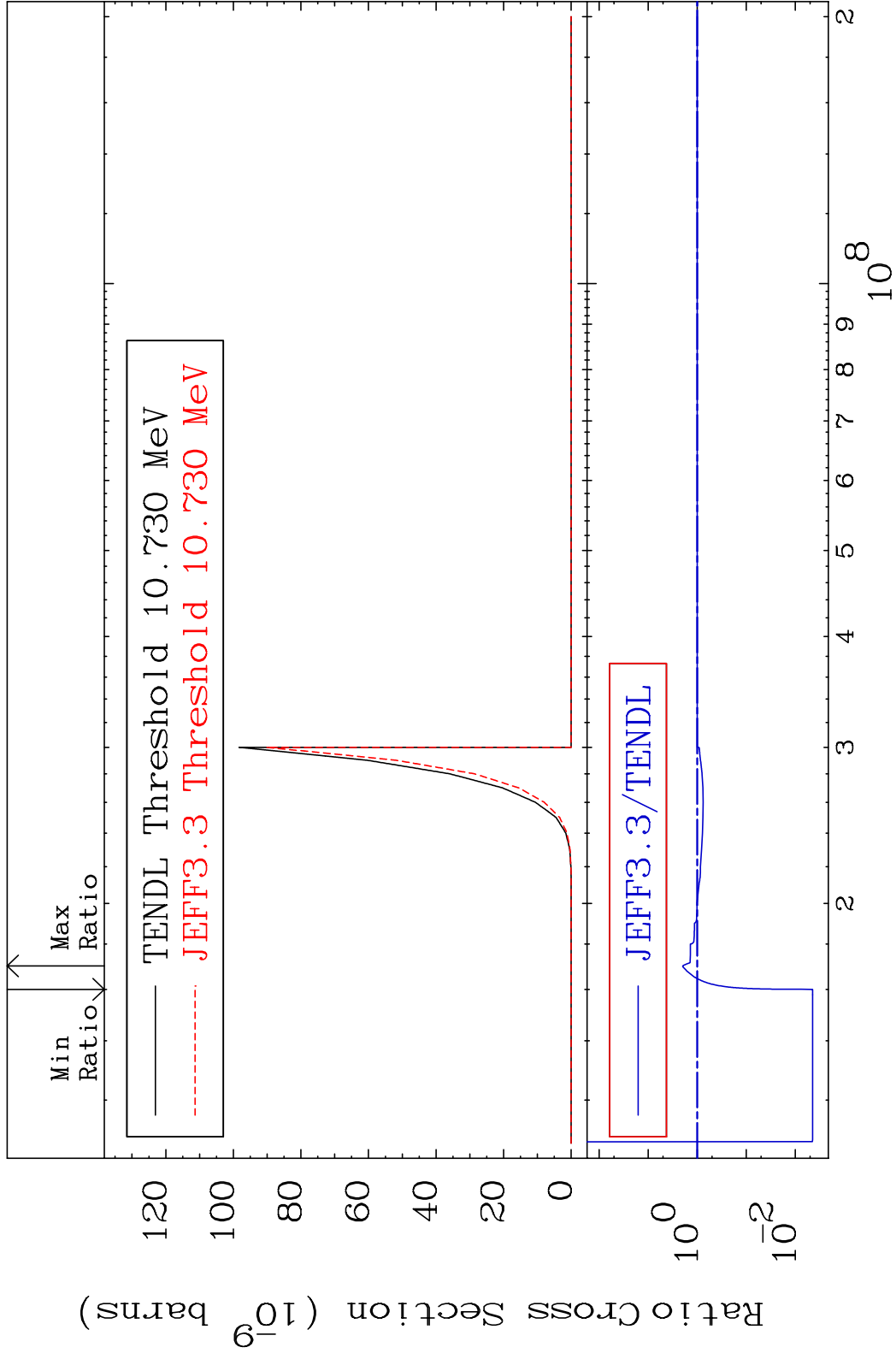
64-Gd-153

MAT 6428

(n,p) d

64-Gd-153

Cross Section -99.56 To 101.3 %

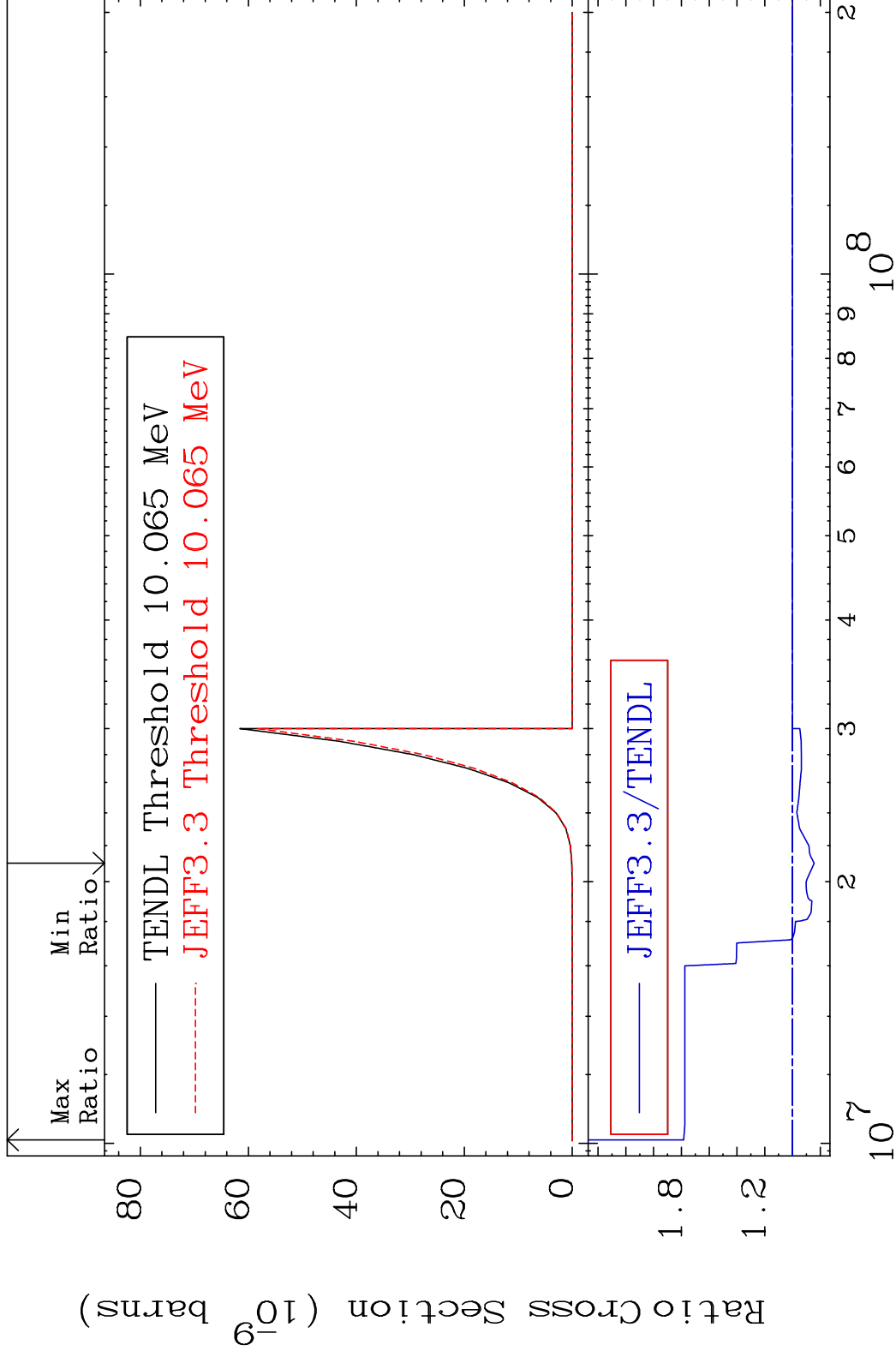


MAT 6428

(n,p) t

64-Gd-153

Cross Section -15.56 To 78.37 %



60

Incident Energy (eV)

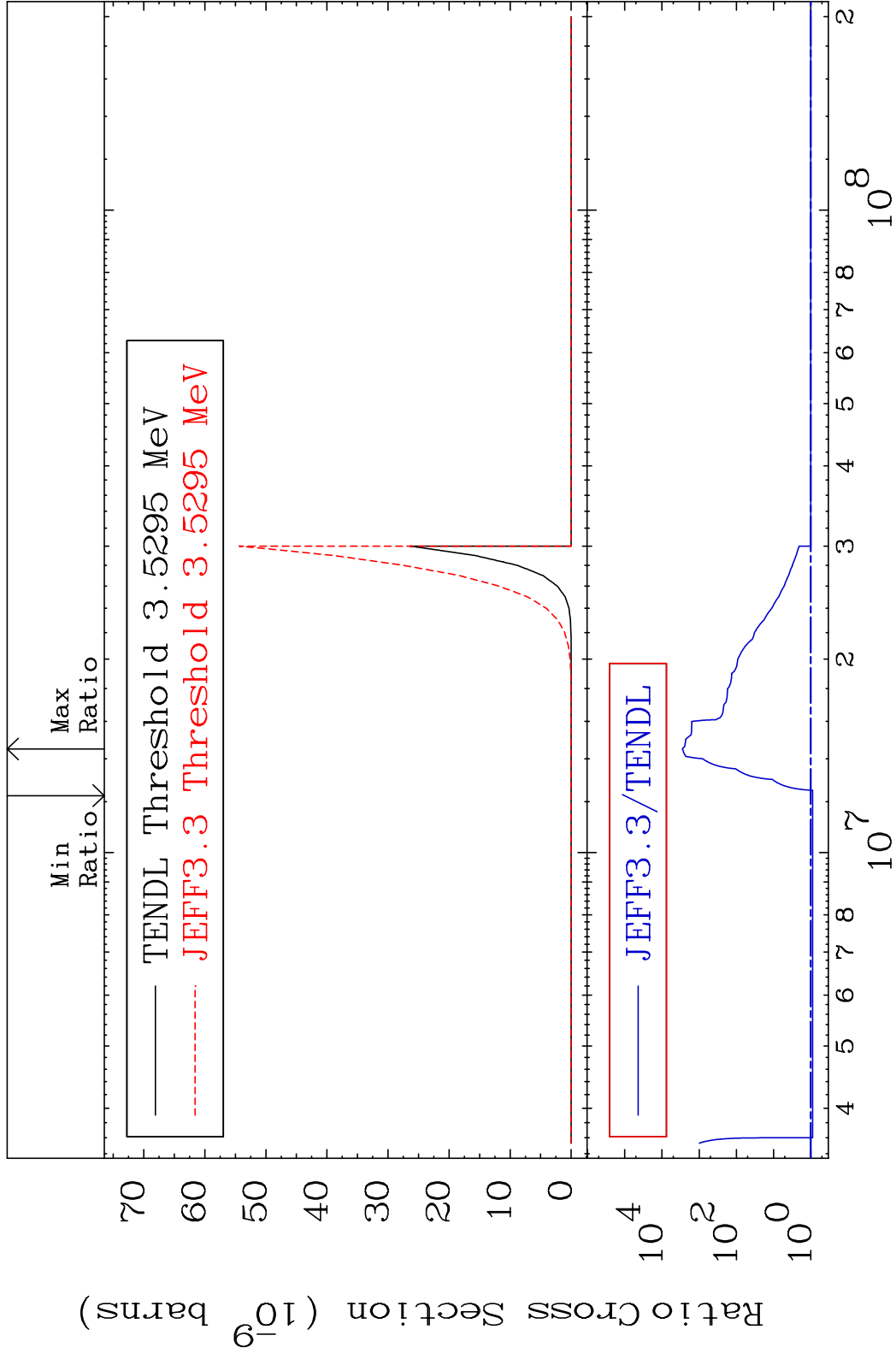
64-Gd-153

MAT 6428

(n, d) α

64-Gd-153

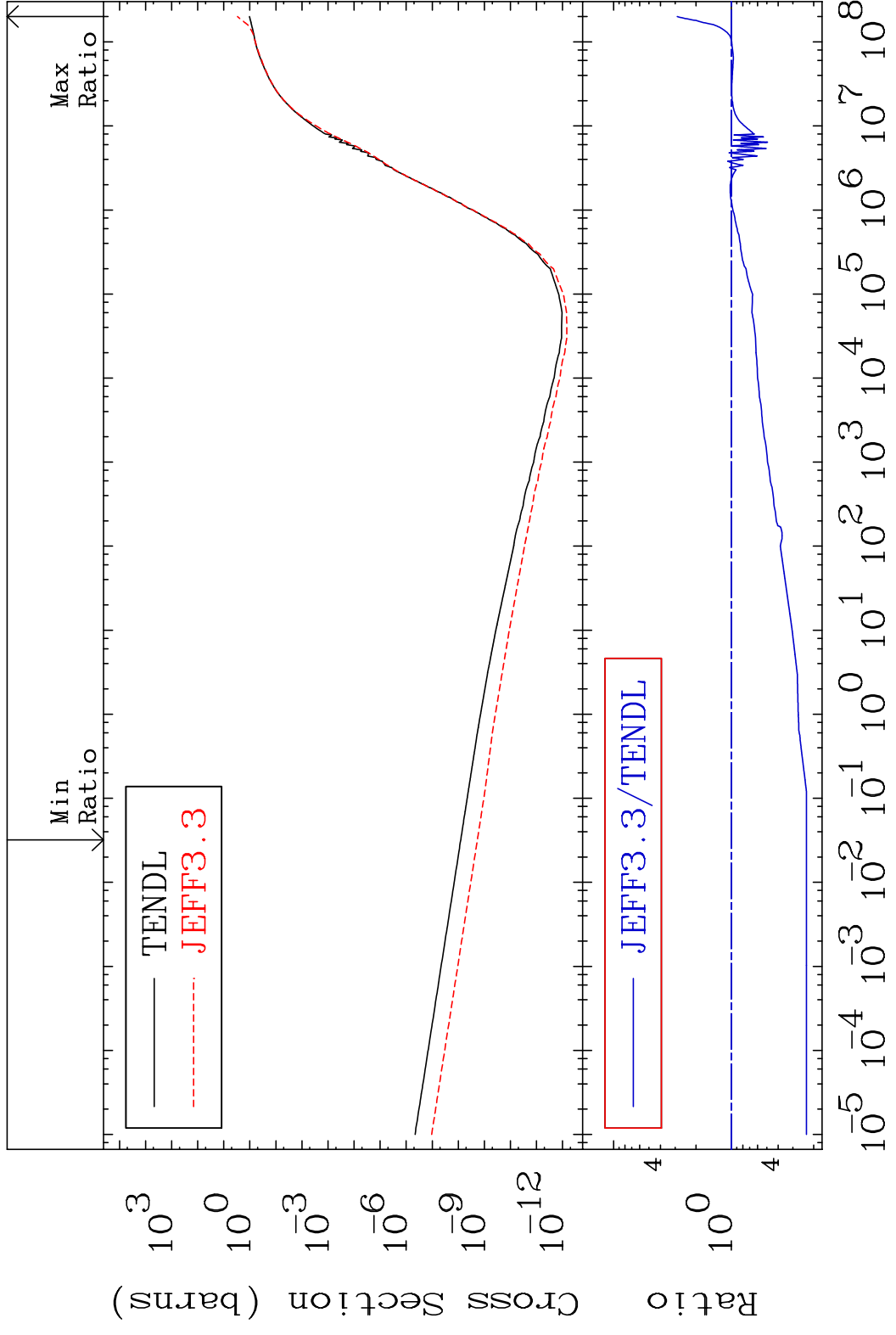
Cross Section -10.37 To 9999. %



MAT 6428

Hydrogen Production
Cross Section -76.95 To 188.3 %

64-Gd-153



62

Incident Energy (eV)

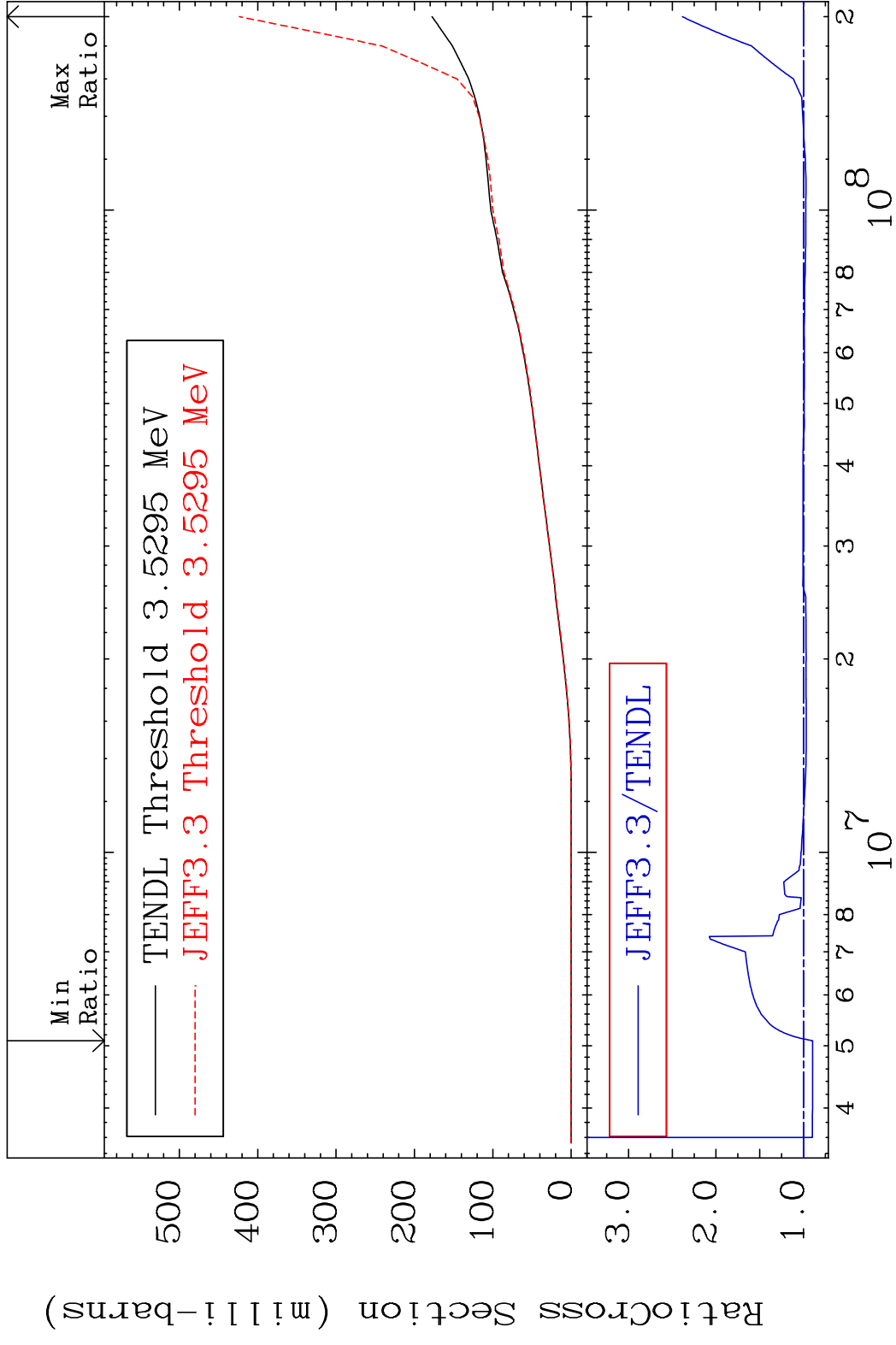
64-Gd-153

MAT 6428

Deuterium Production

64-Gd-153

Cross Section -10.39 To 138.5 %

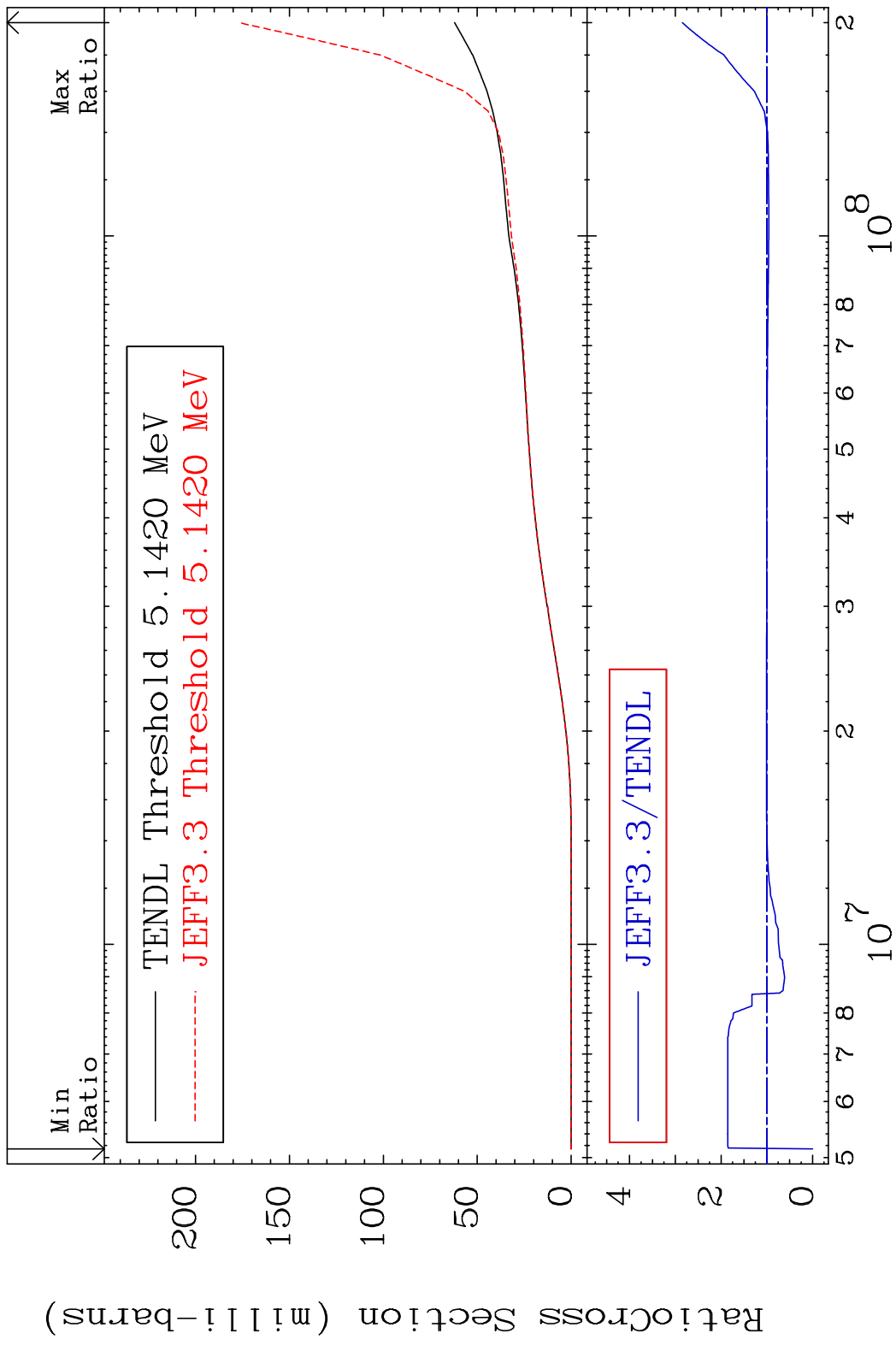


63

Incident Energy (eV)

64-Gd-153

MAT 6428 Tritium Production 64-Gd-153
 Cross Section -100.0 To 184.6 %

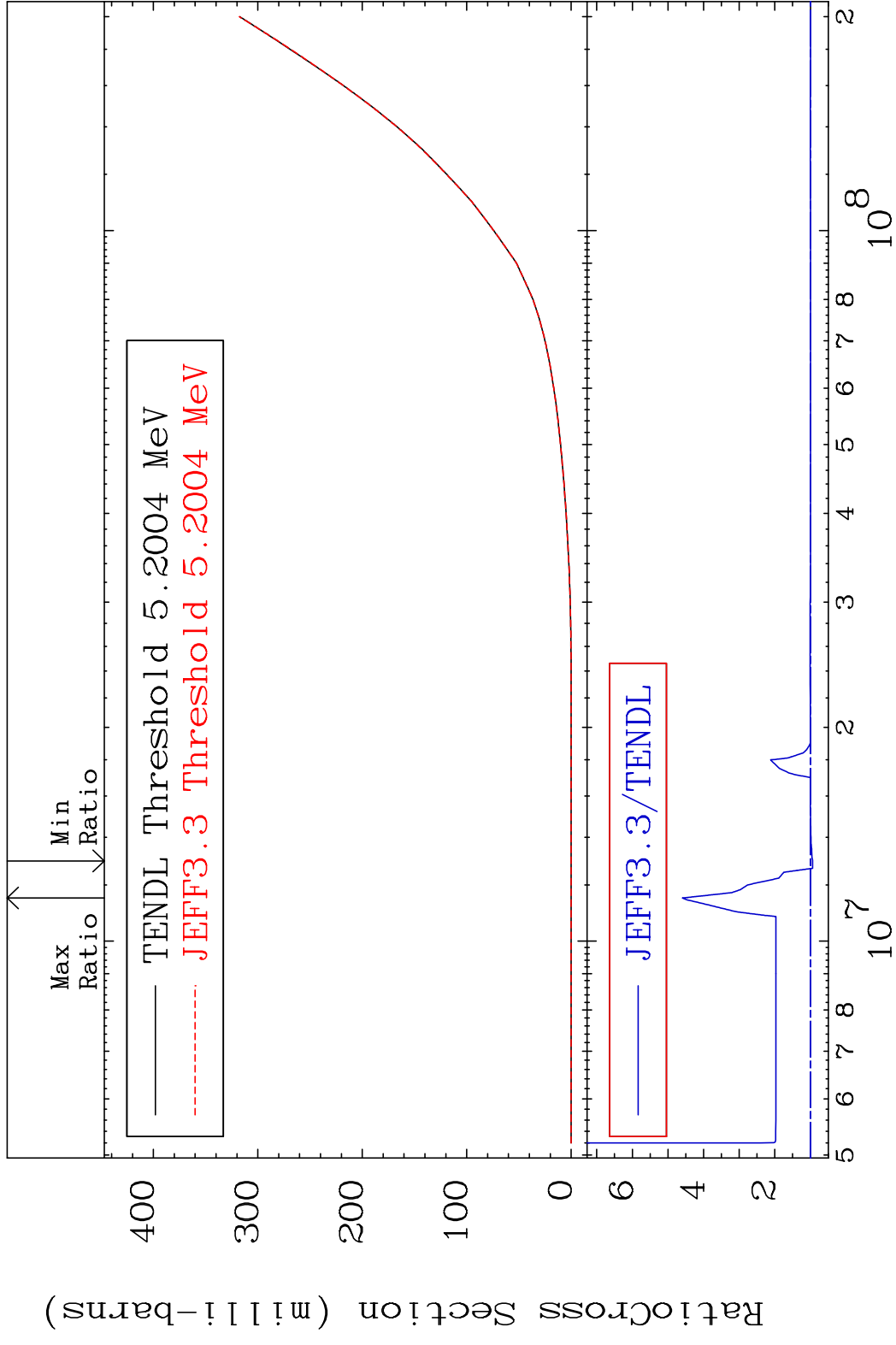


MAT 6428

He-3 Production

64-Gd-153

Cross Section -5.912 To 359.6 %



65

Incident Energy (eV)

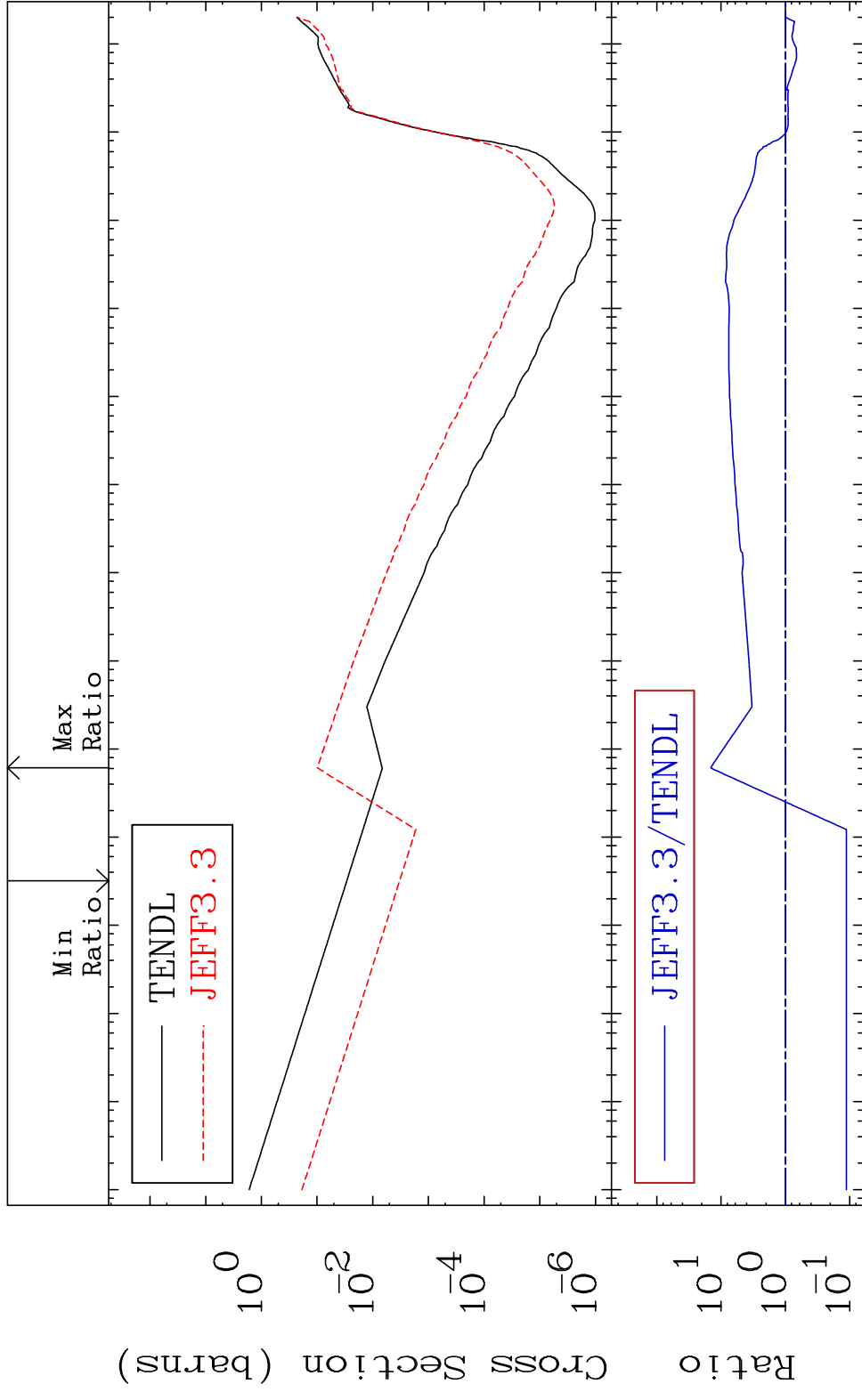
64-Gd-153

MAT 6428

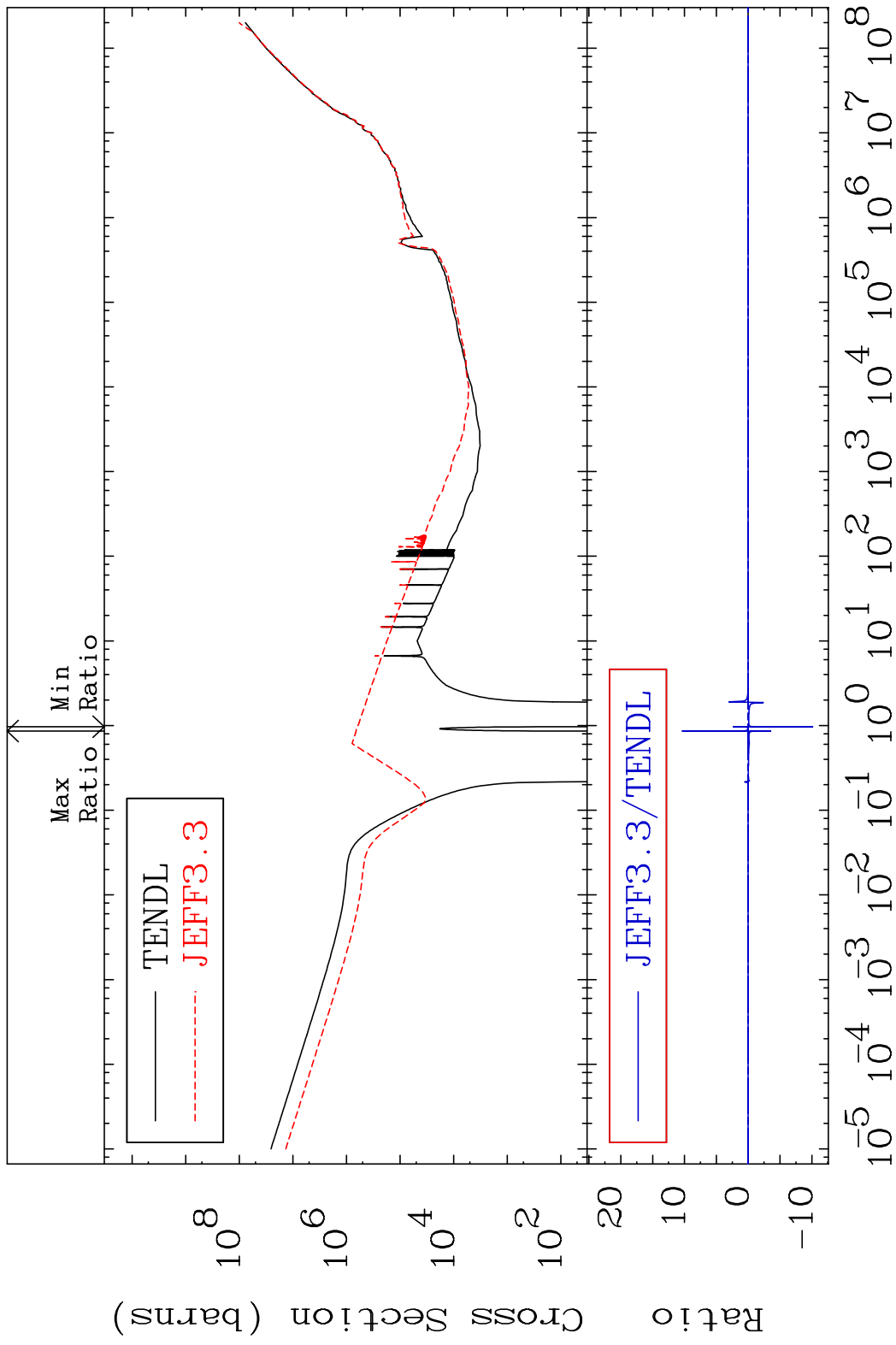
He-4 Production

64-Gd-153

Cross Section -88.75 To 1349. %



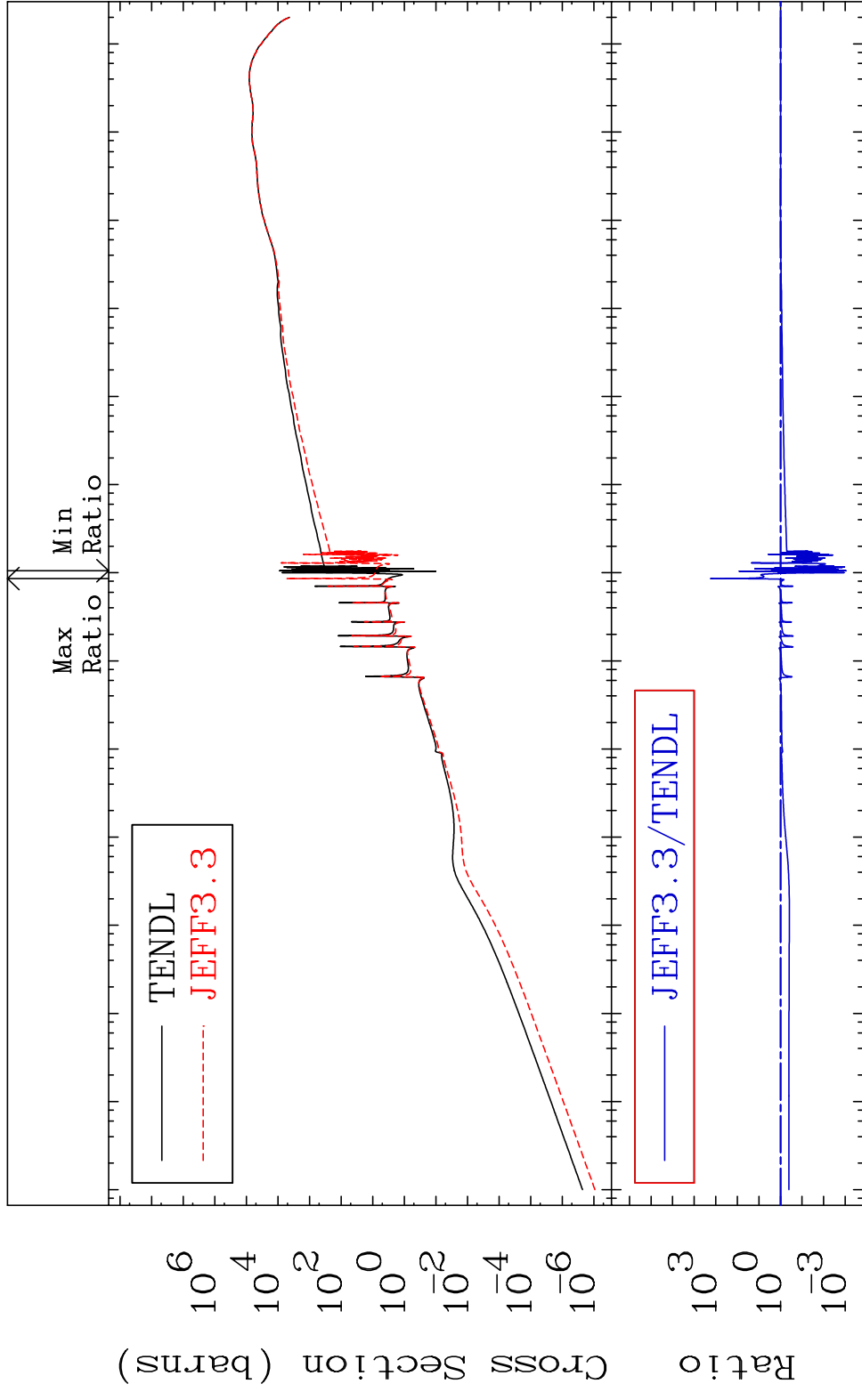
MAT 6428 Kerma total (eV-barns) 64-Gd-153
Cross Section -9999. To 9999. %



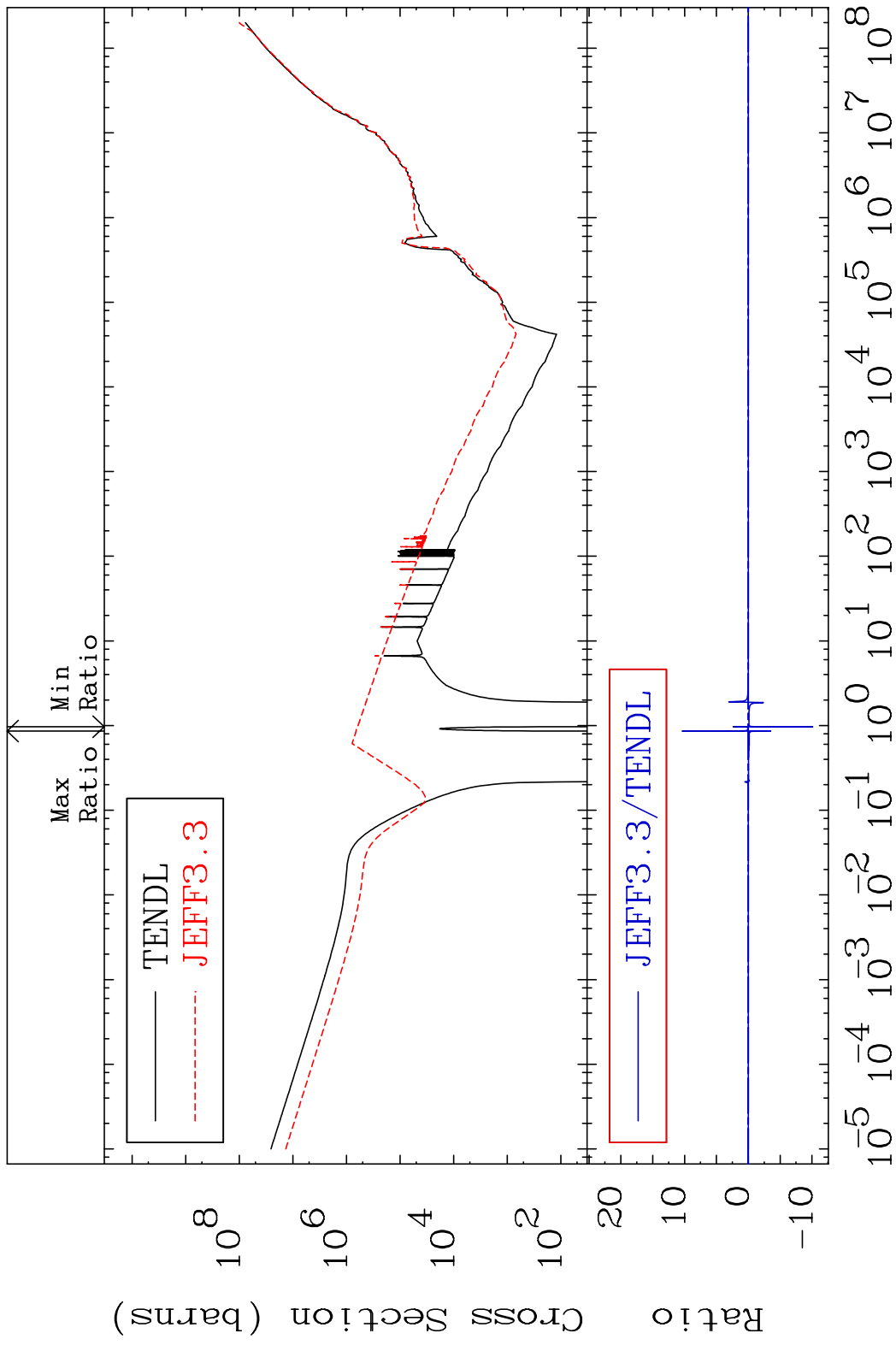
MAT 6428

Kerma elastic
Cross Section

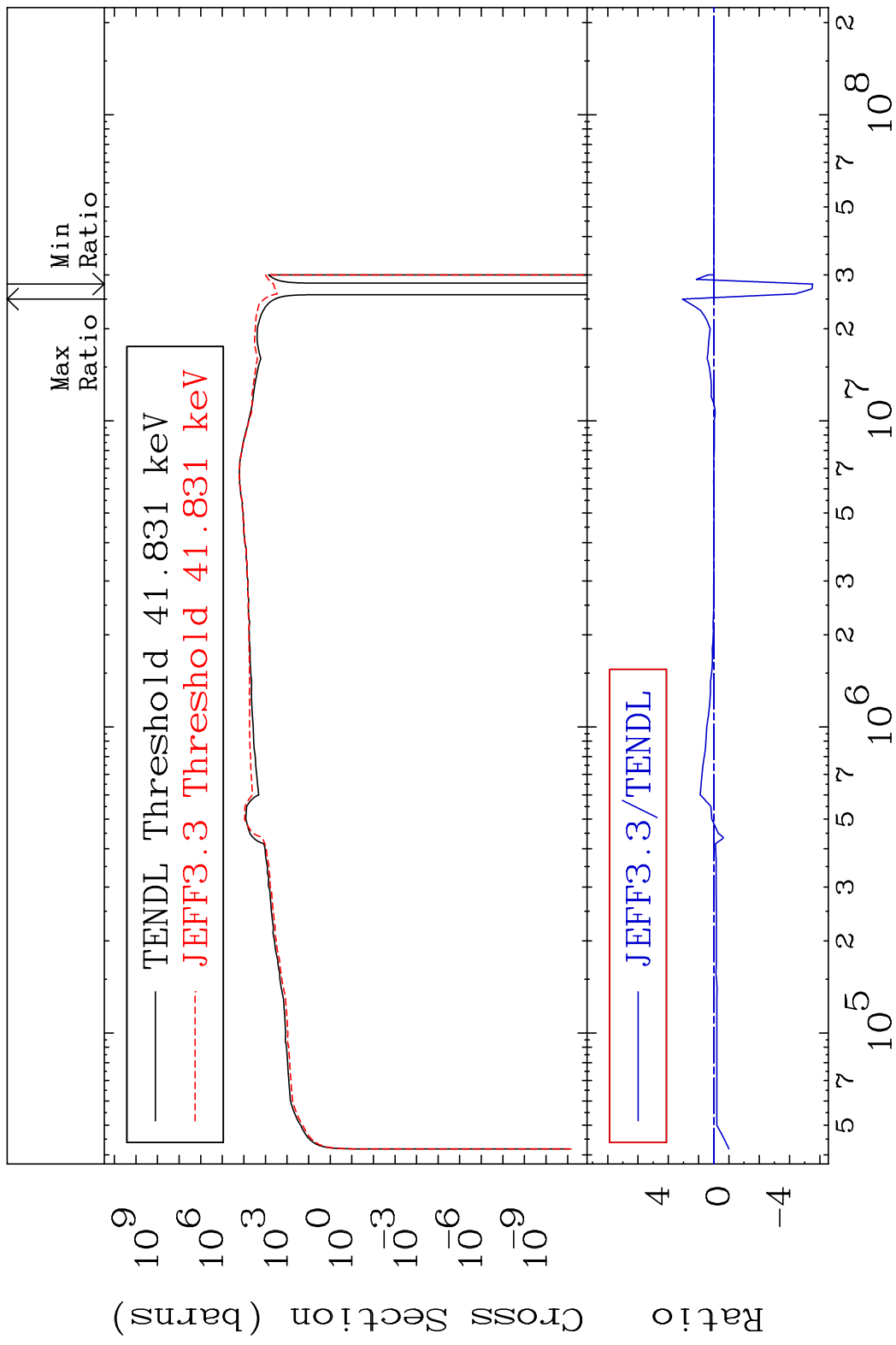
64-Gd-153
-99.91 To 9999. %



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

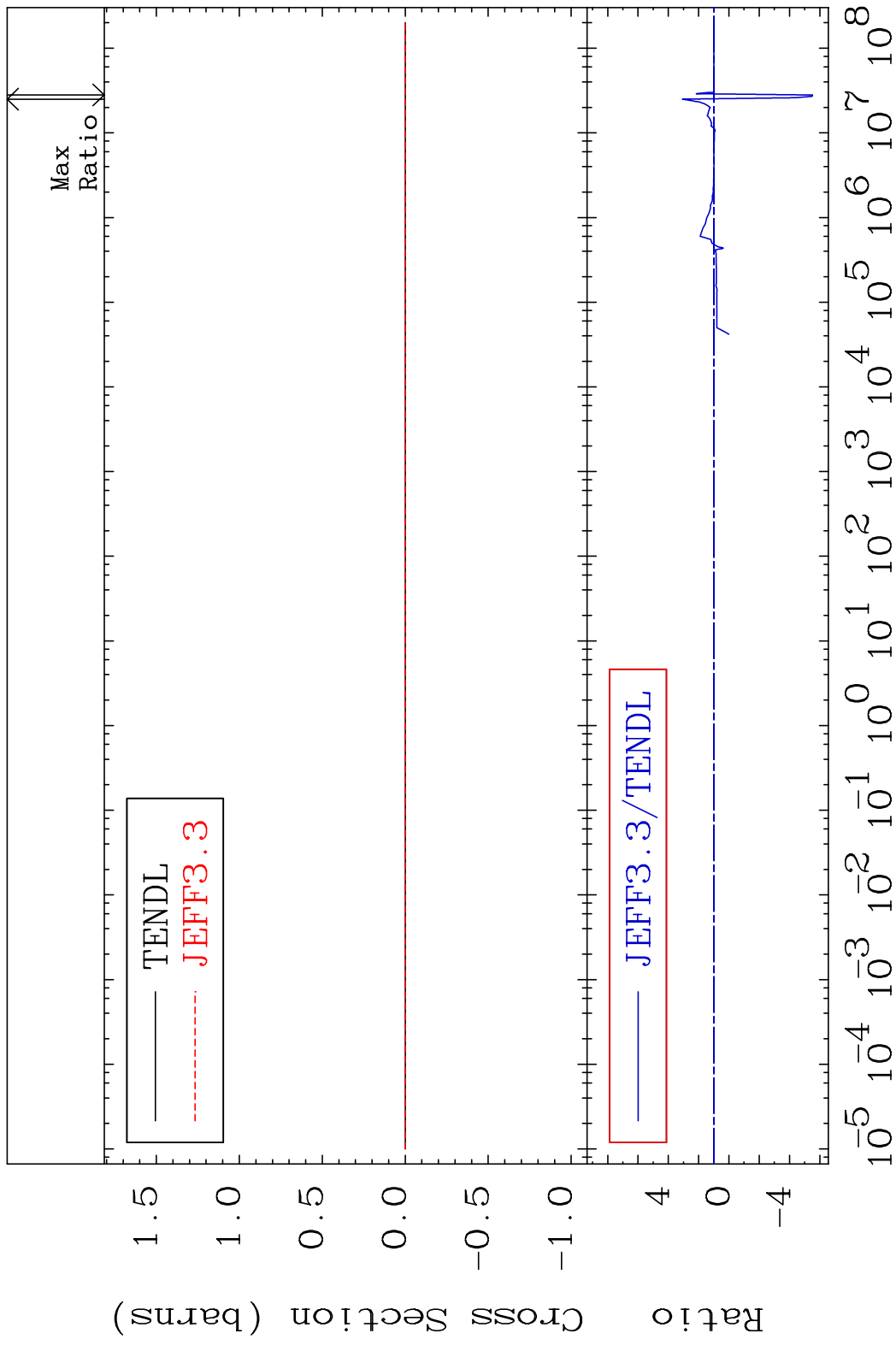


MAT 6428 Kerma inelastic (mt51-91) 64-Gd-153
 Cross Section -652.1 To 207.4 %



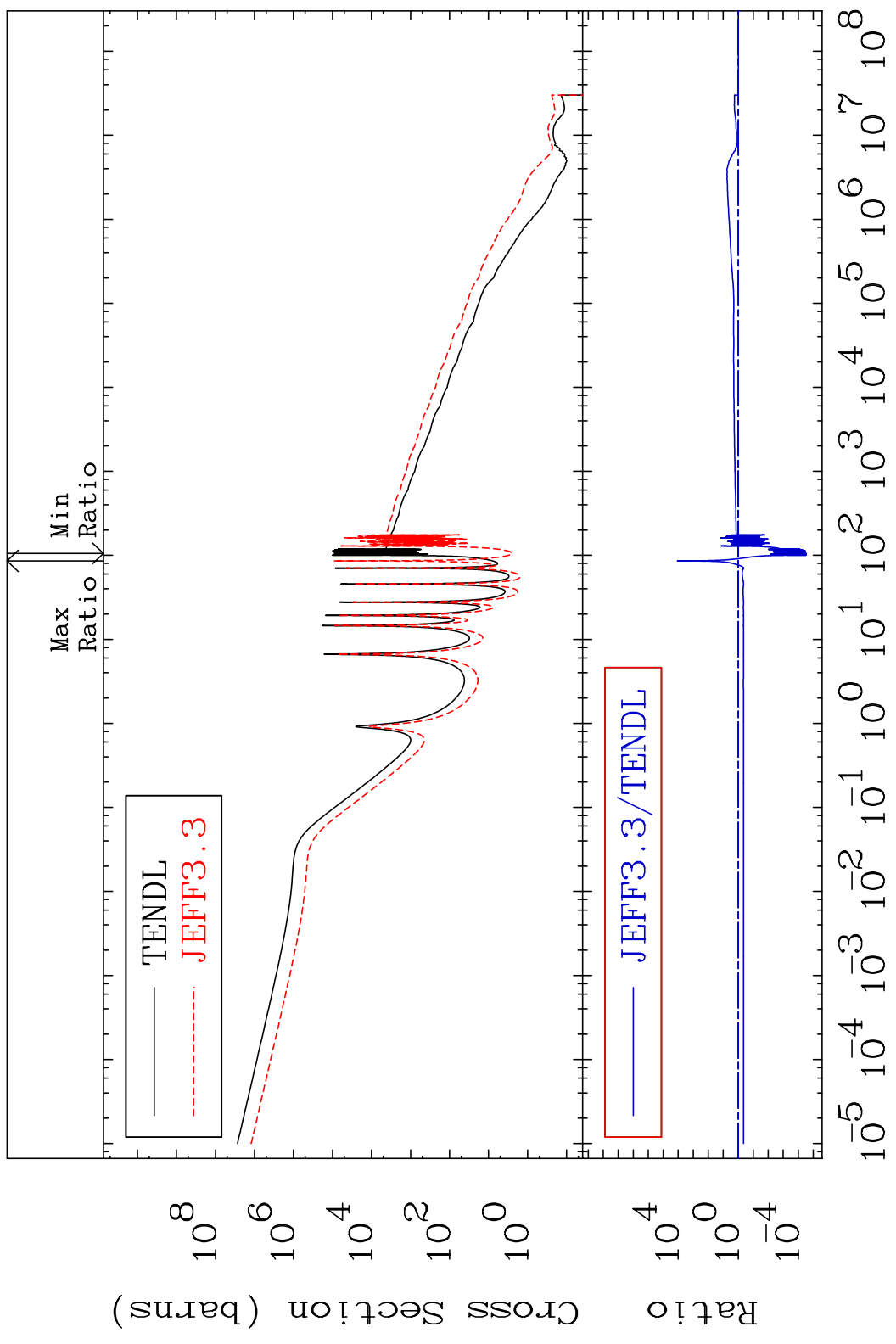
70 Incident Energy (eV) 64-Gd-153

MAT 6428 Kerma fission (mt18 or mt19-20-21-38) 64-Gd-153
 Cross Section -652.1 To 207.4 %



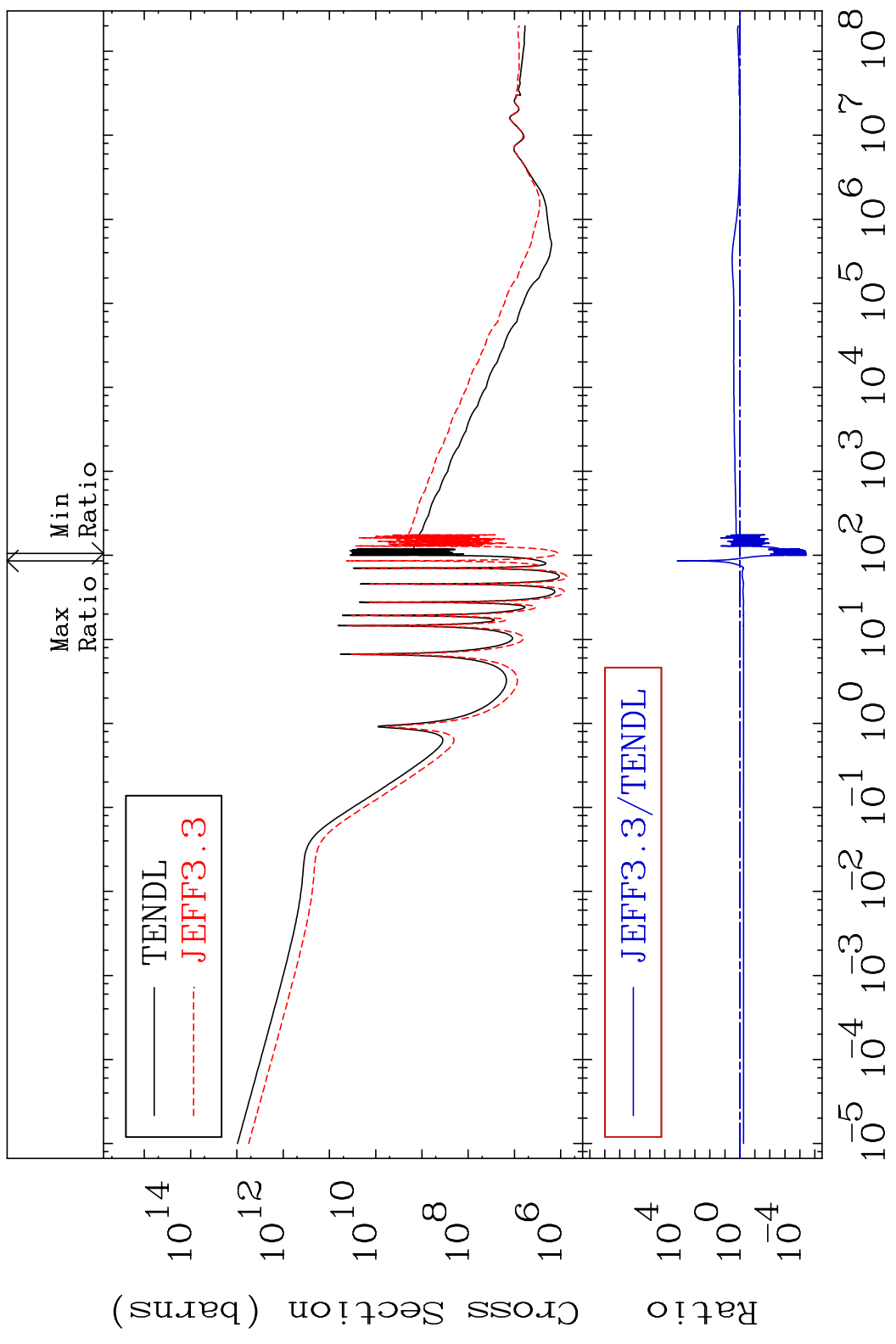
MAT 6428

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



MAT 6428

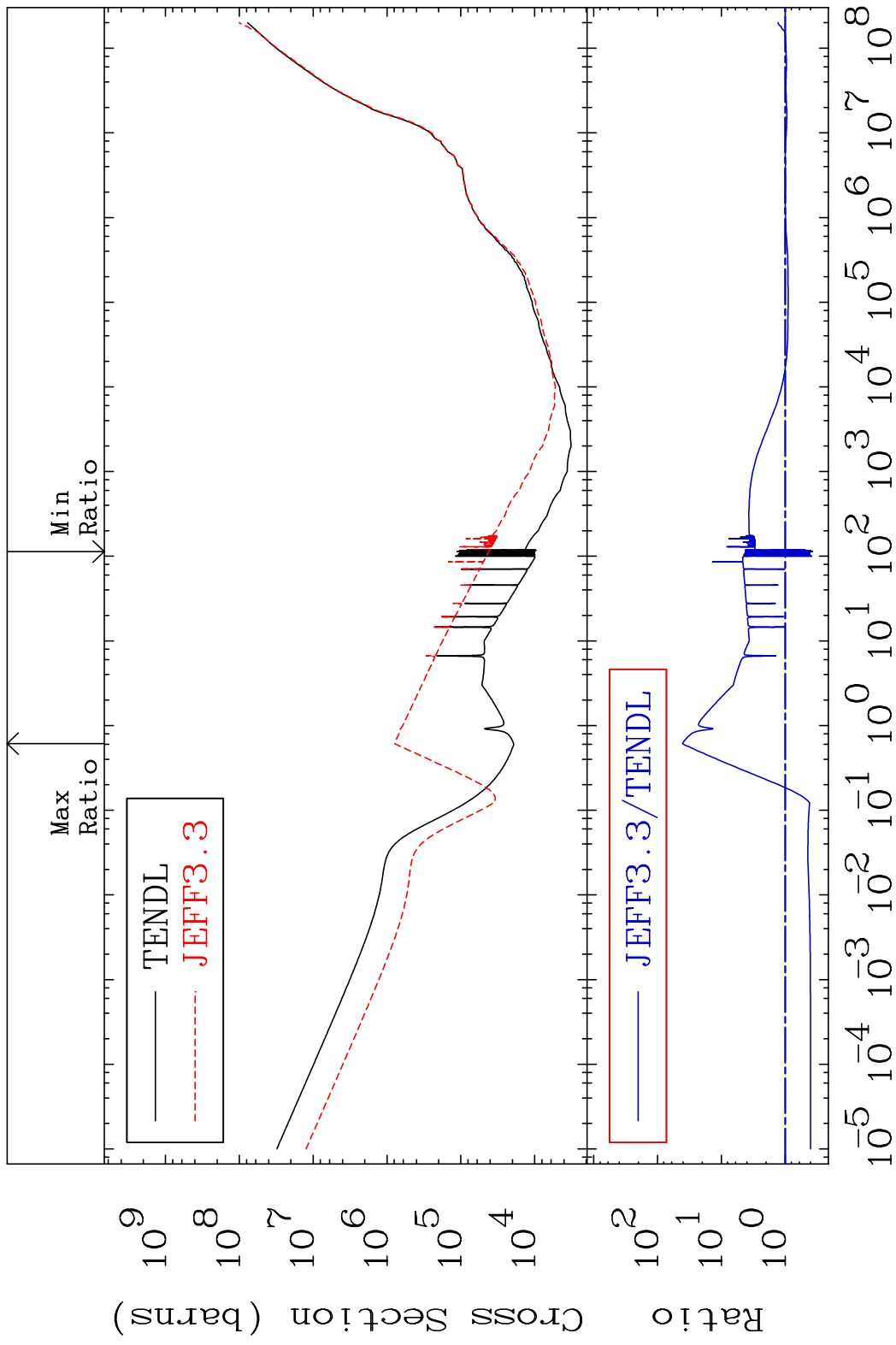
Total photon (eV-barns) 64-Gd-153
Cross Section -100.0 To 9999. %



73

Incident Energy (eV) 64-Gd-153

MAT 6428 Total kinematic kerma (high limit) 64-Gd-153
 Cross Section -62.64 To 3996. %

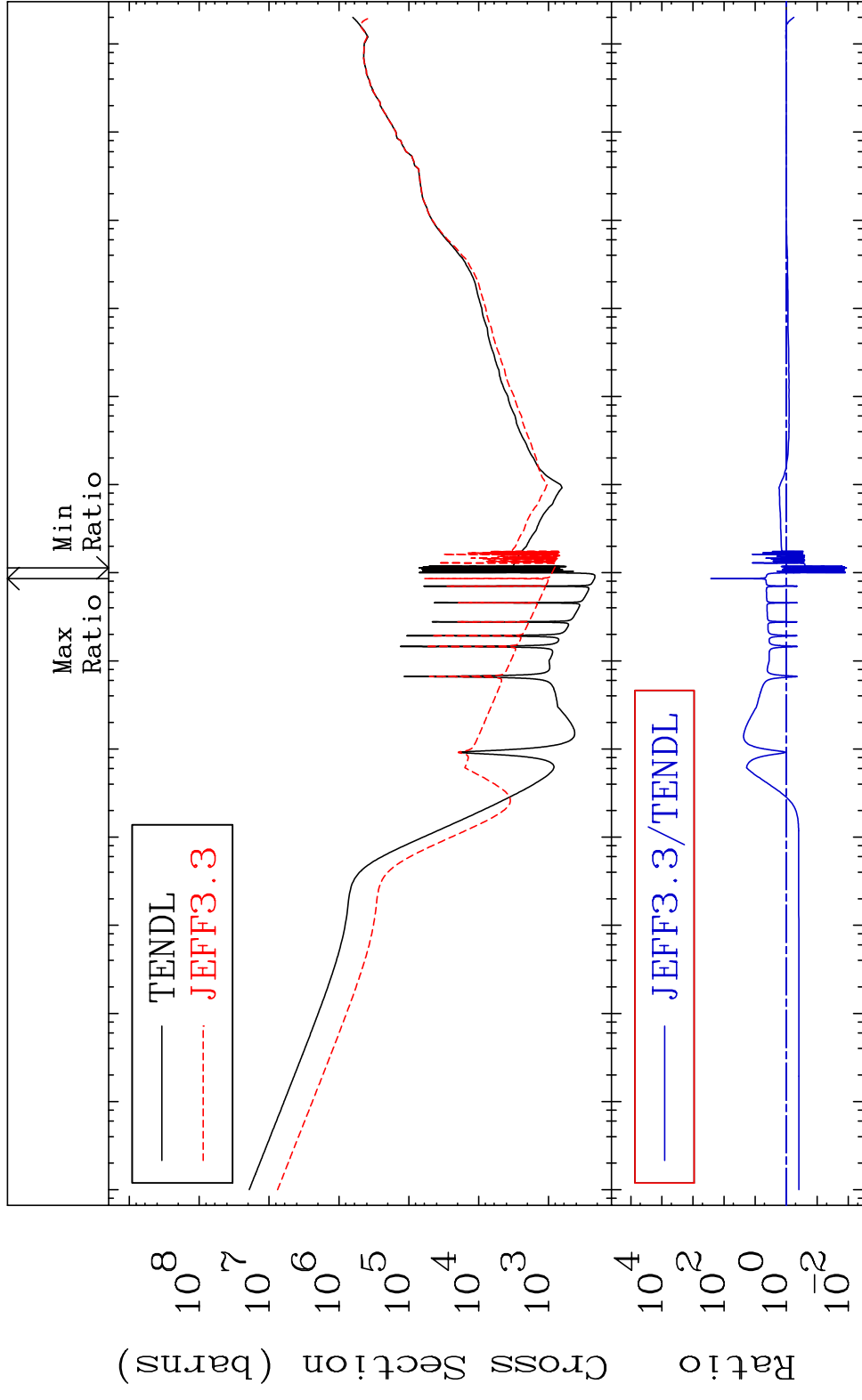


MAT 6428

Dpa total (eV-barns)

64-Gd-153

Cross Section -98.84 To 9999. %



75

Incident Energy (eV)

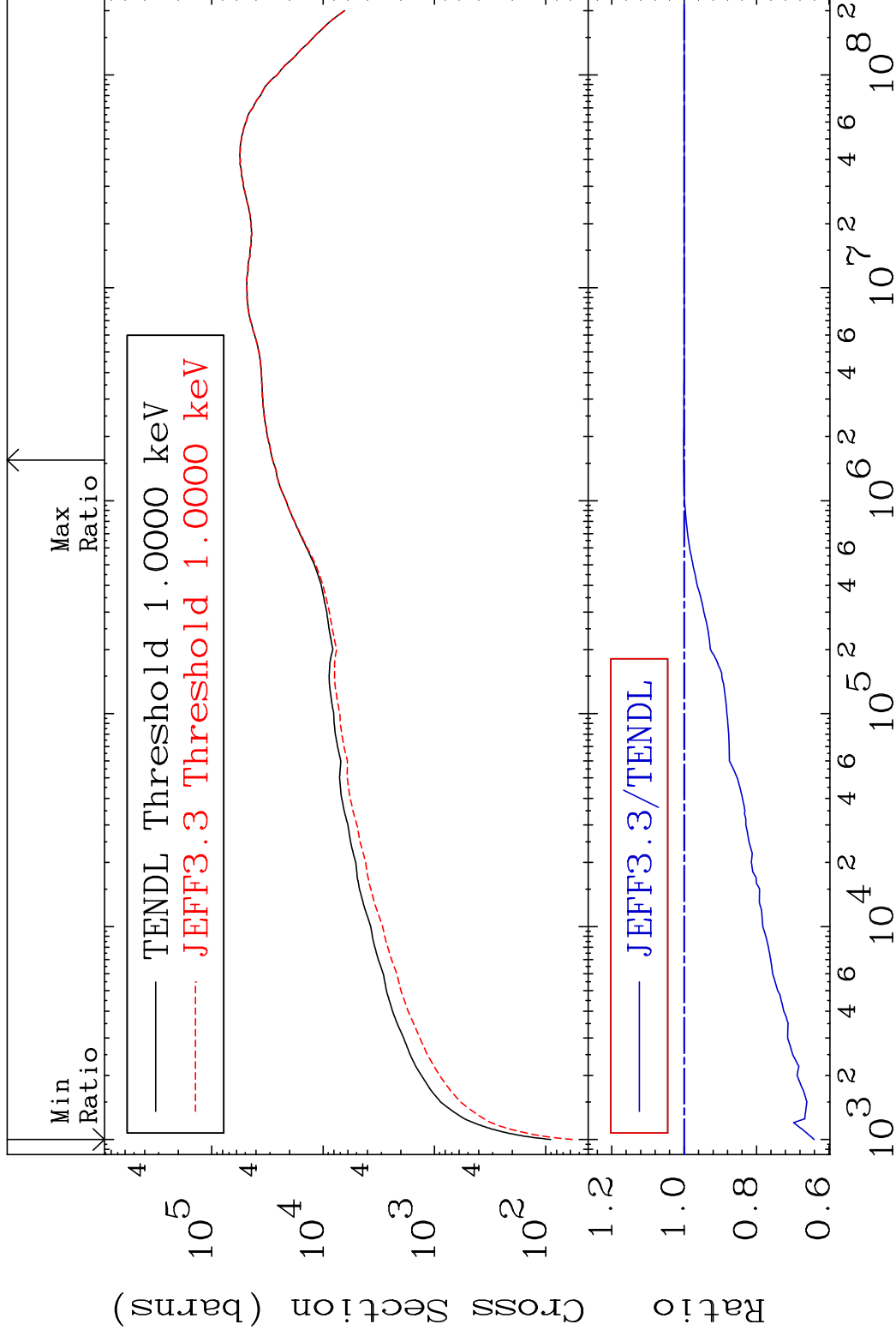
64-Gd-153

MAT 6428

Dpa elastic (mt2)

64-Gd-153

Cross Section -35.91 To 0.123 %

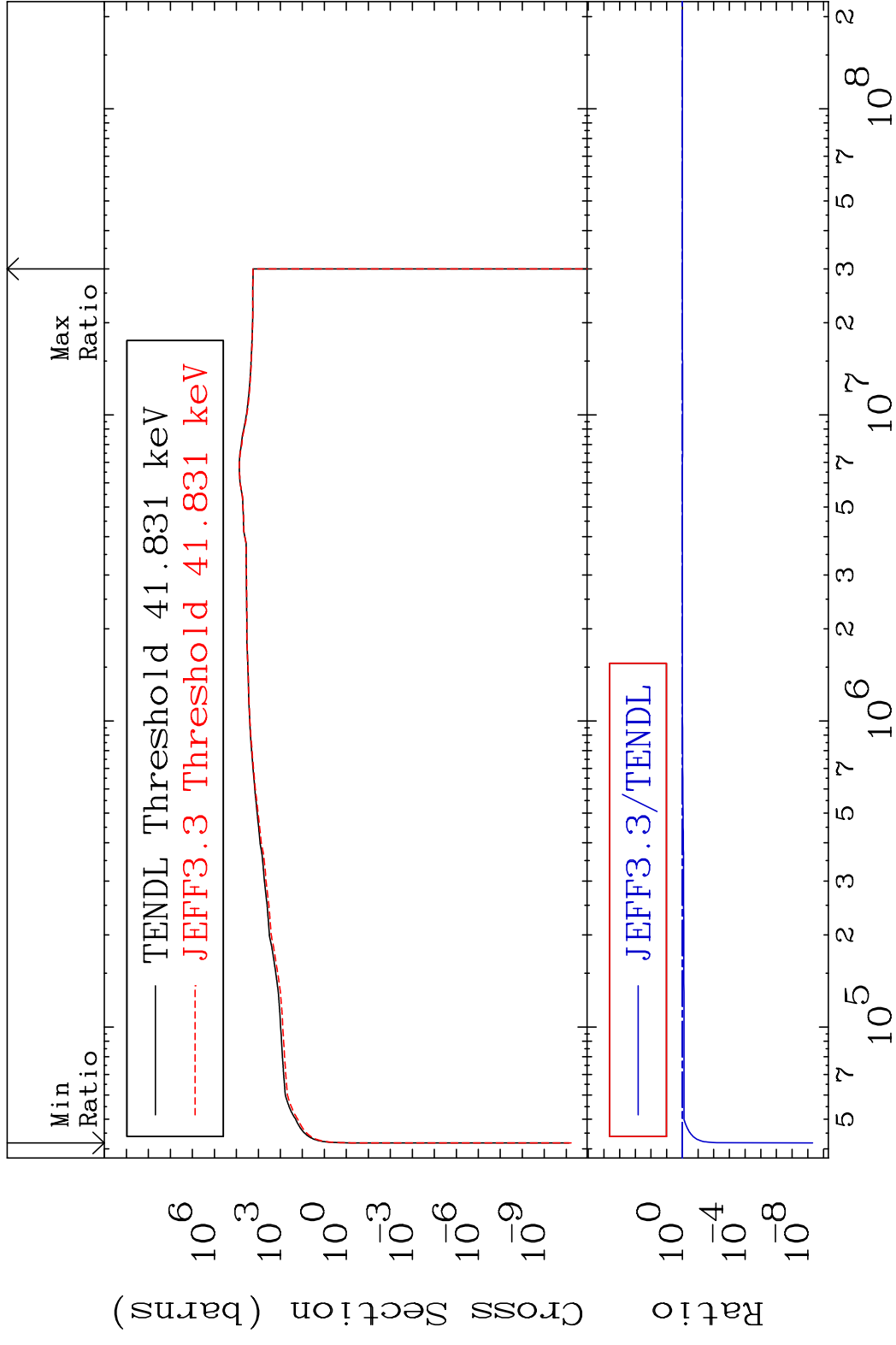


76

Incident Energy (eV)

64-Gd-153

MAT 6428 Dpa inelastic (mt51-91) 64-Gd-153
 Cross Section -100.0 To 0.098 %



MAT 6428 Dpa disappearance (mt102 -120) 64-Gd-153
 Cross Section -98.84 To 9999. %

