

Program Complot
(Version 2021-1)

by

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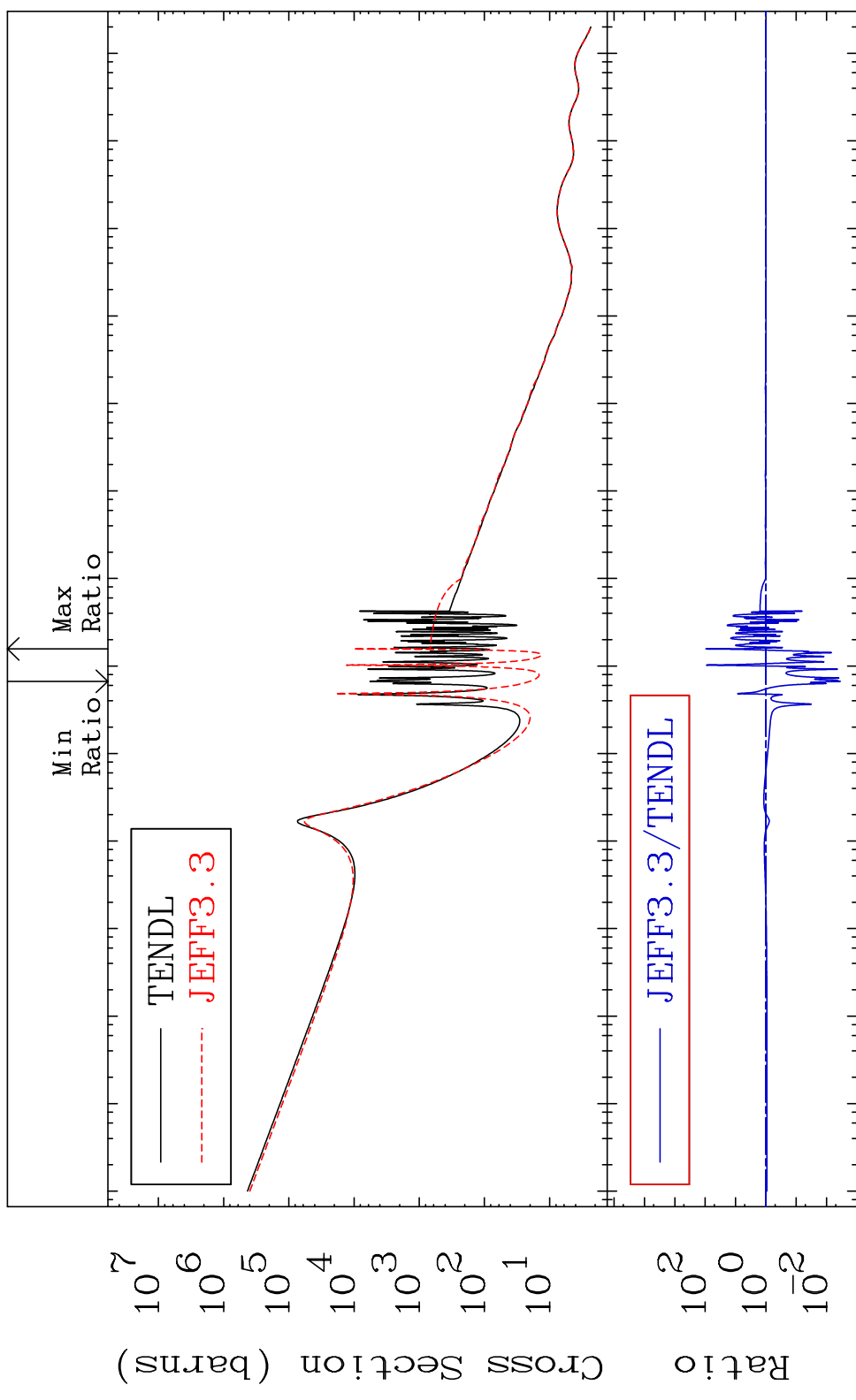
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 6153

Total 61-Pm-148m
Cross Section -99.65 To 9467. %



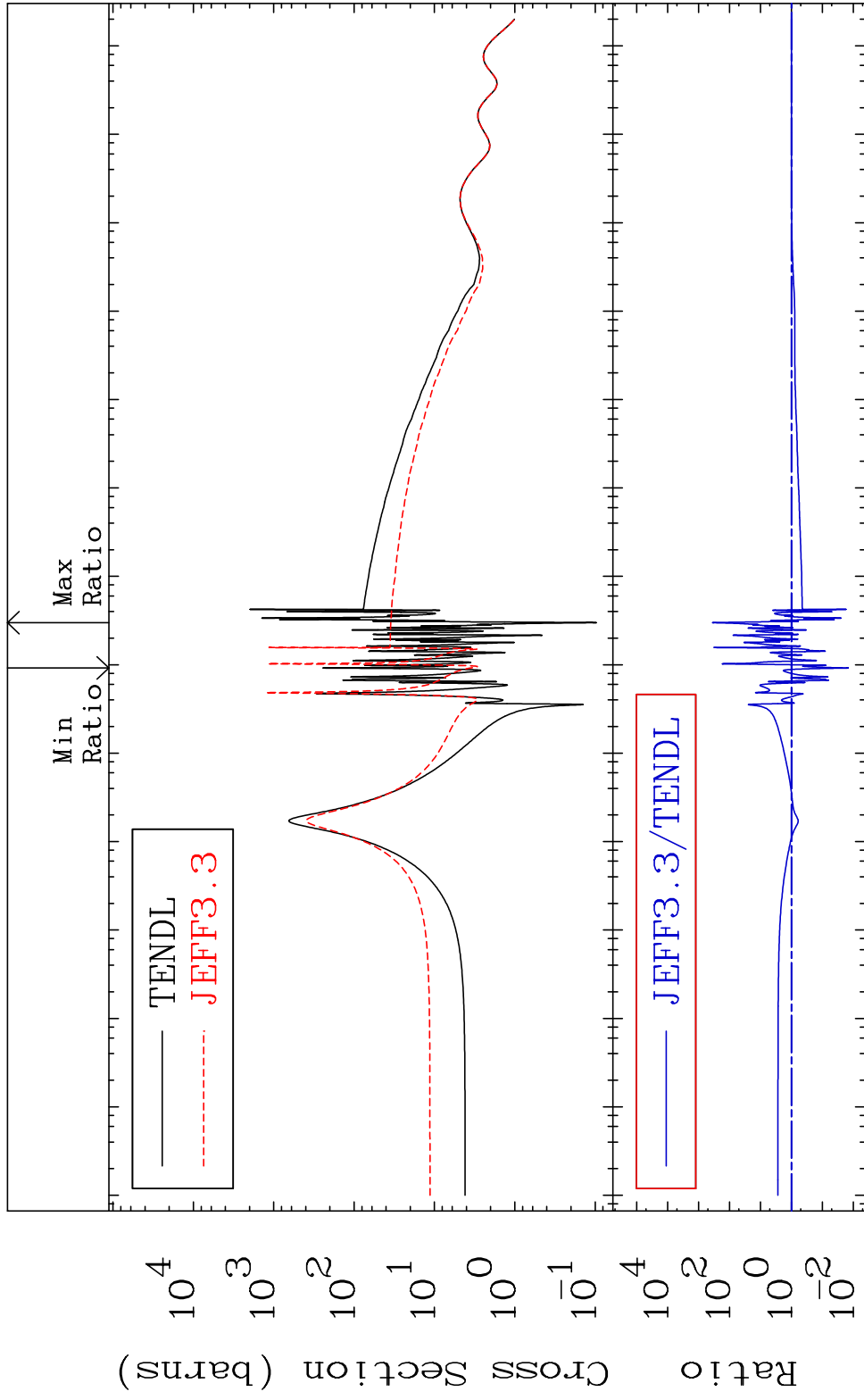
1 Incident Energy (eV) 61-Pm-148m

MAT 6153

Elastic

61-Pm-148m

Cross Section -98.54 To 9999. %

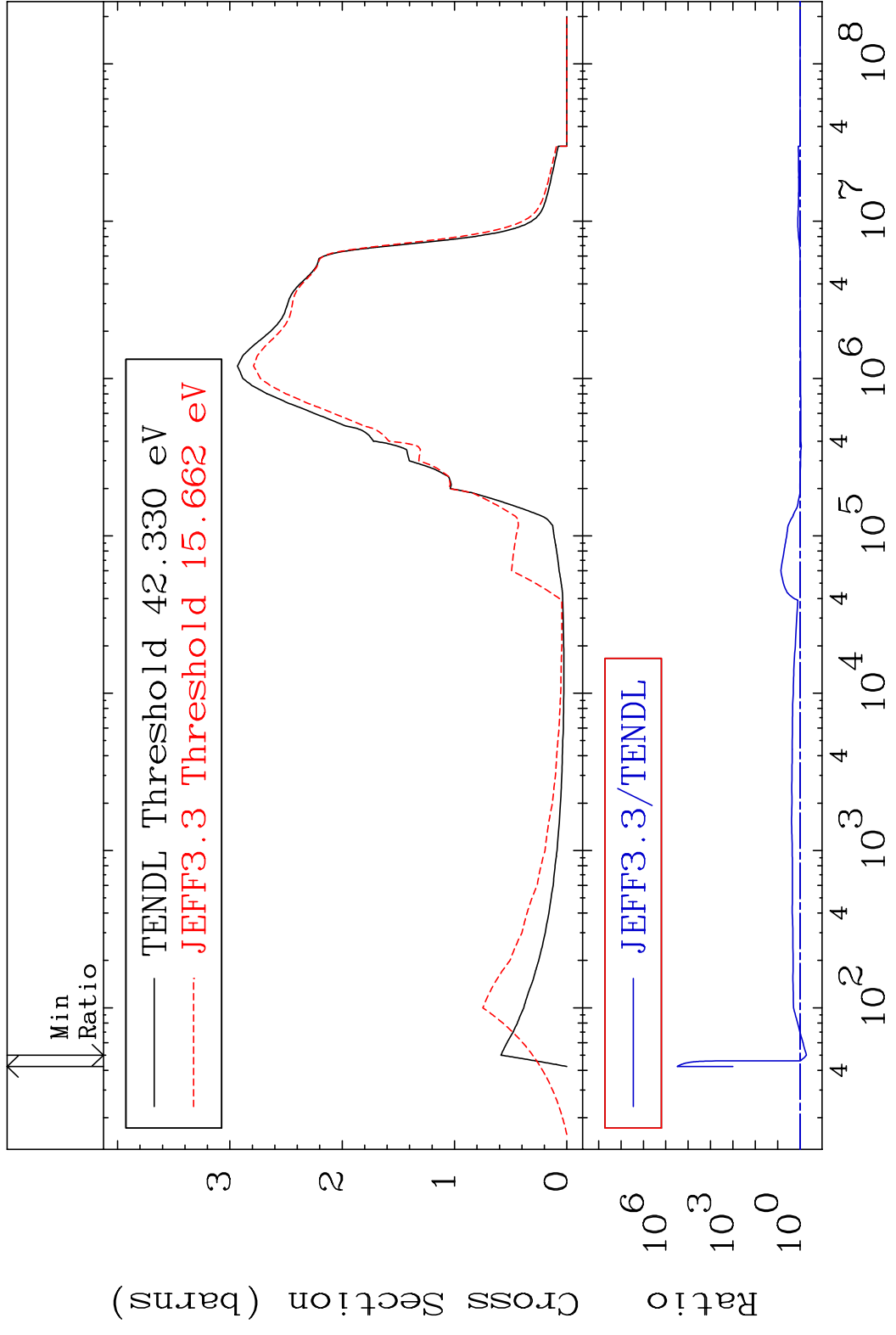


2

Incident Energy (eV)

61-Pm-148m

MAT 6153 Inelastic 61-Pm-148m
 Cross Section -48.10 To 9999. %



3 61-Pm-148m

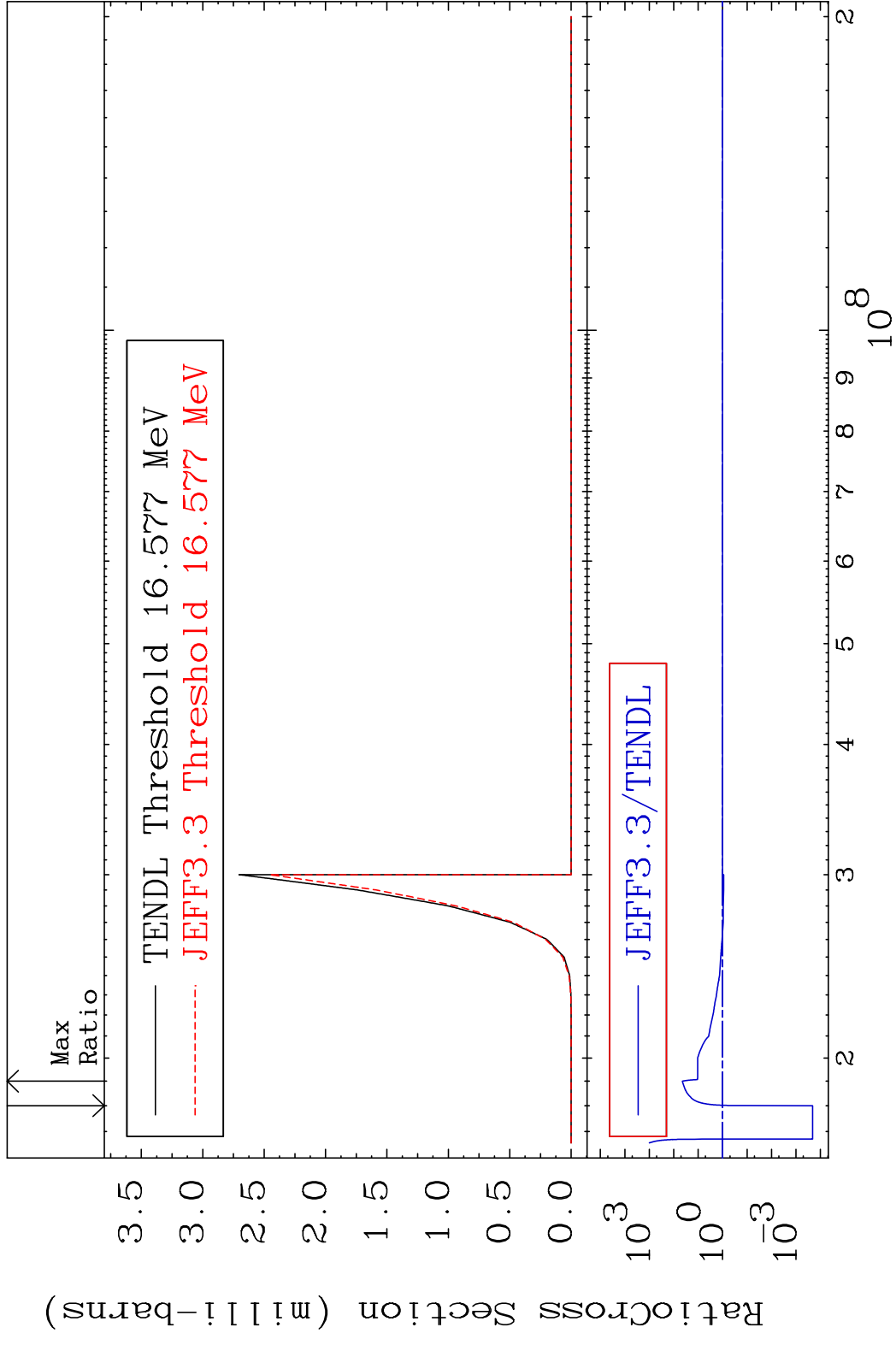
MAT 6153

(n,2n) d

61-Pm-148m

Cross Section

-99.98 To 4334. %

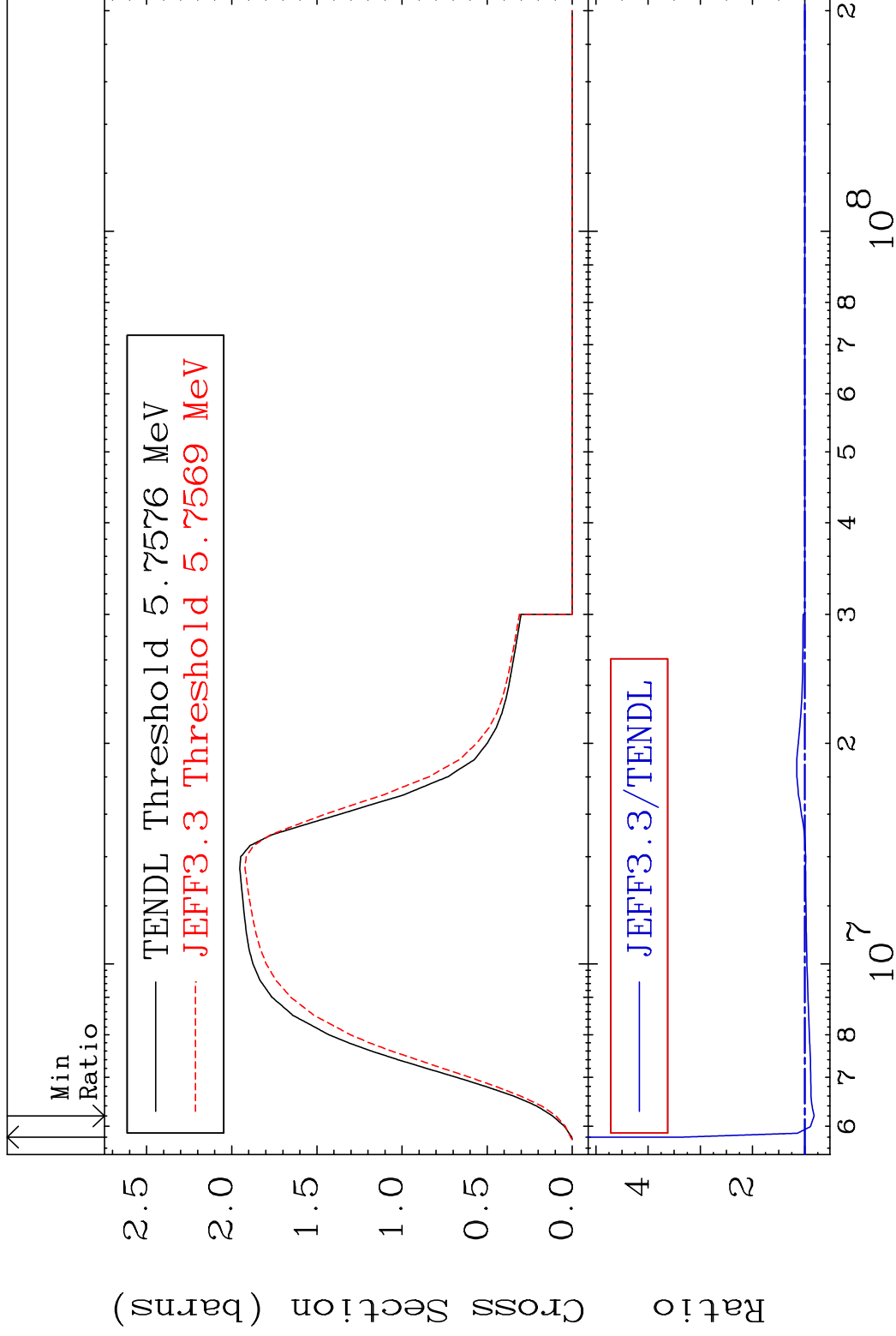


MAT 6153

(n,2n)

61-Pm-148m

Cross Section -17.91 To 231.9 %



5

Incident Energy (eV)

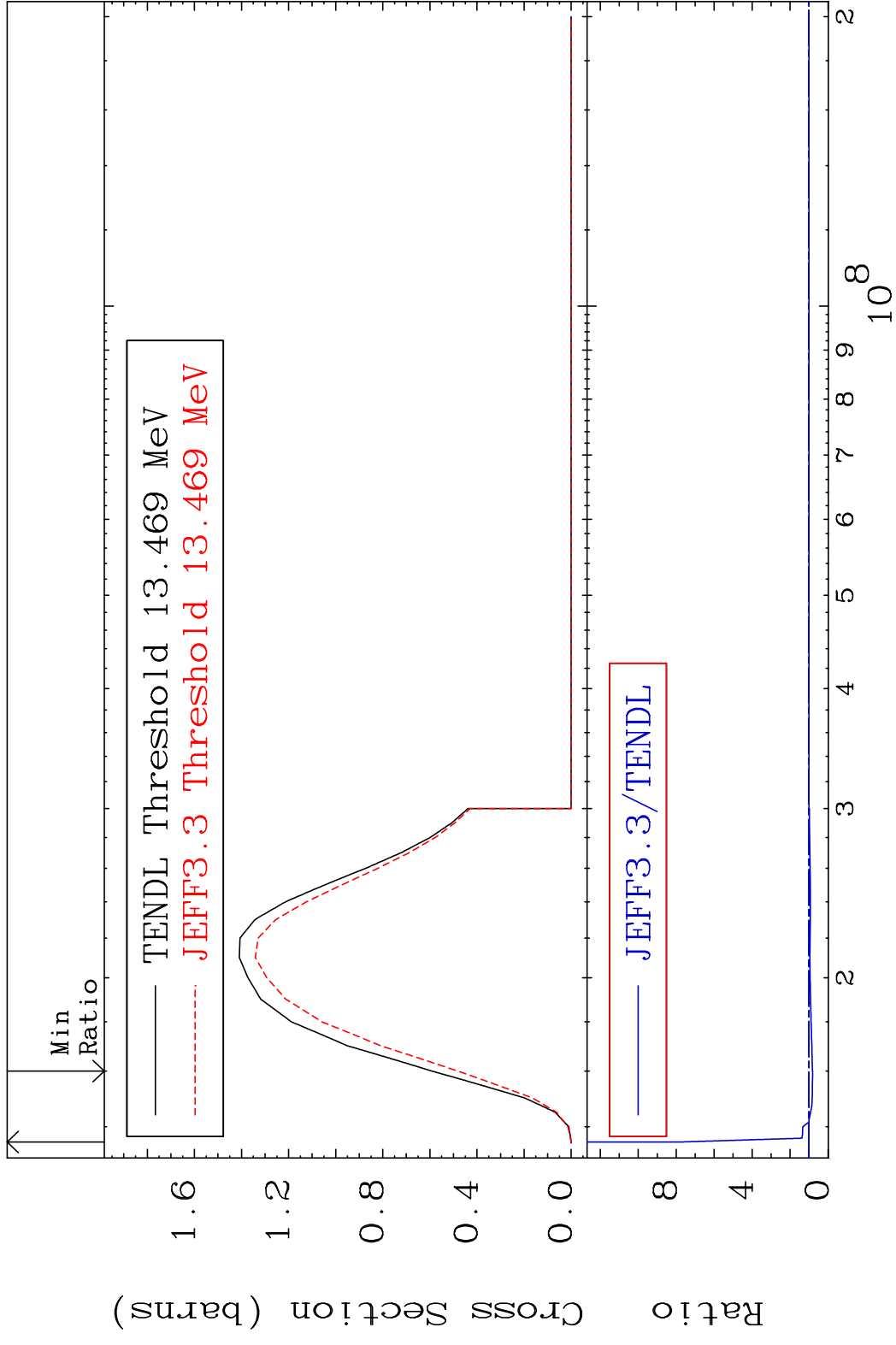
61-Pm-148m

MAT 6153

(n,3n)

61-Pm-148m

Cross Section -18.54 To 667.4 %

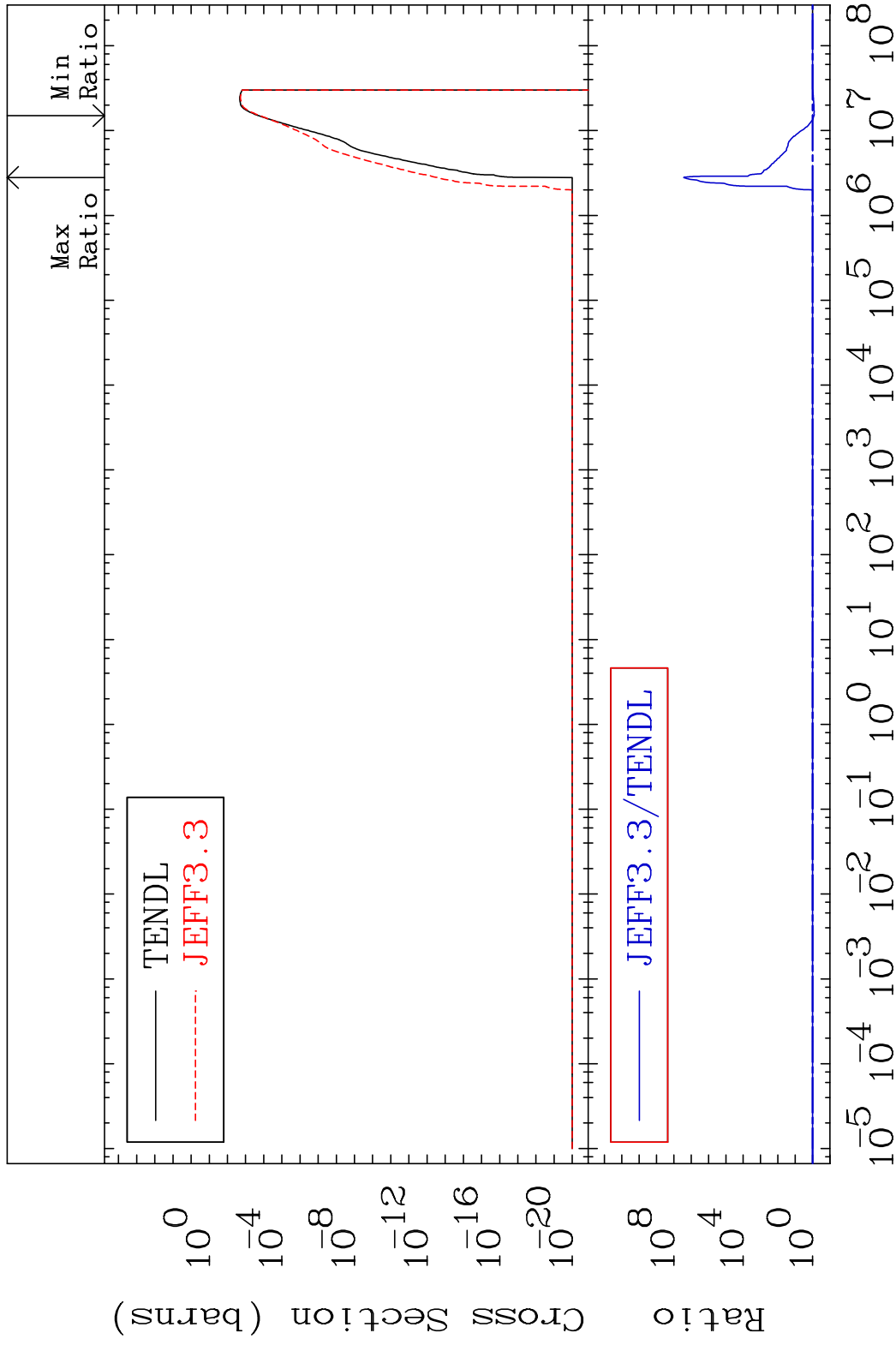


MAT 6153

(n, n') α

61-Pm-148m

Cross Section -17.56 To 9999. %



7

Incident Energy (eV)

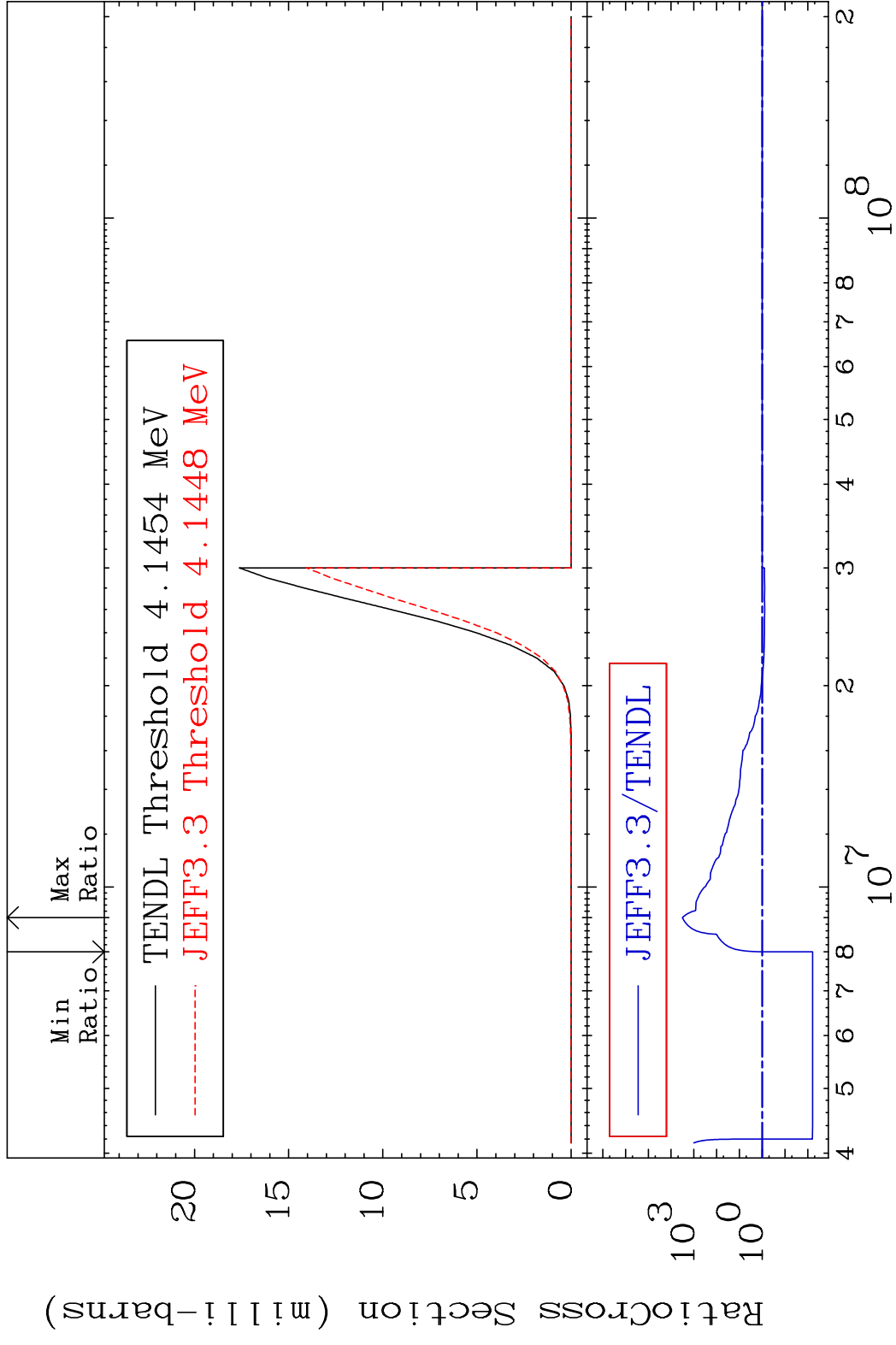
61-Pm-148m

MAT 6153

(n,2n) α

61-Pm-148m

Cross Section -99.38 To 9999. %



8

Incident Energy (eV)

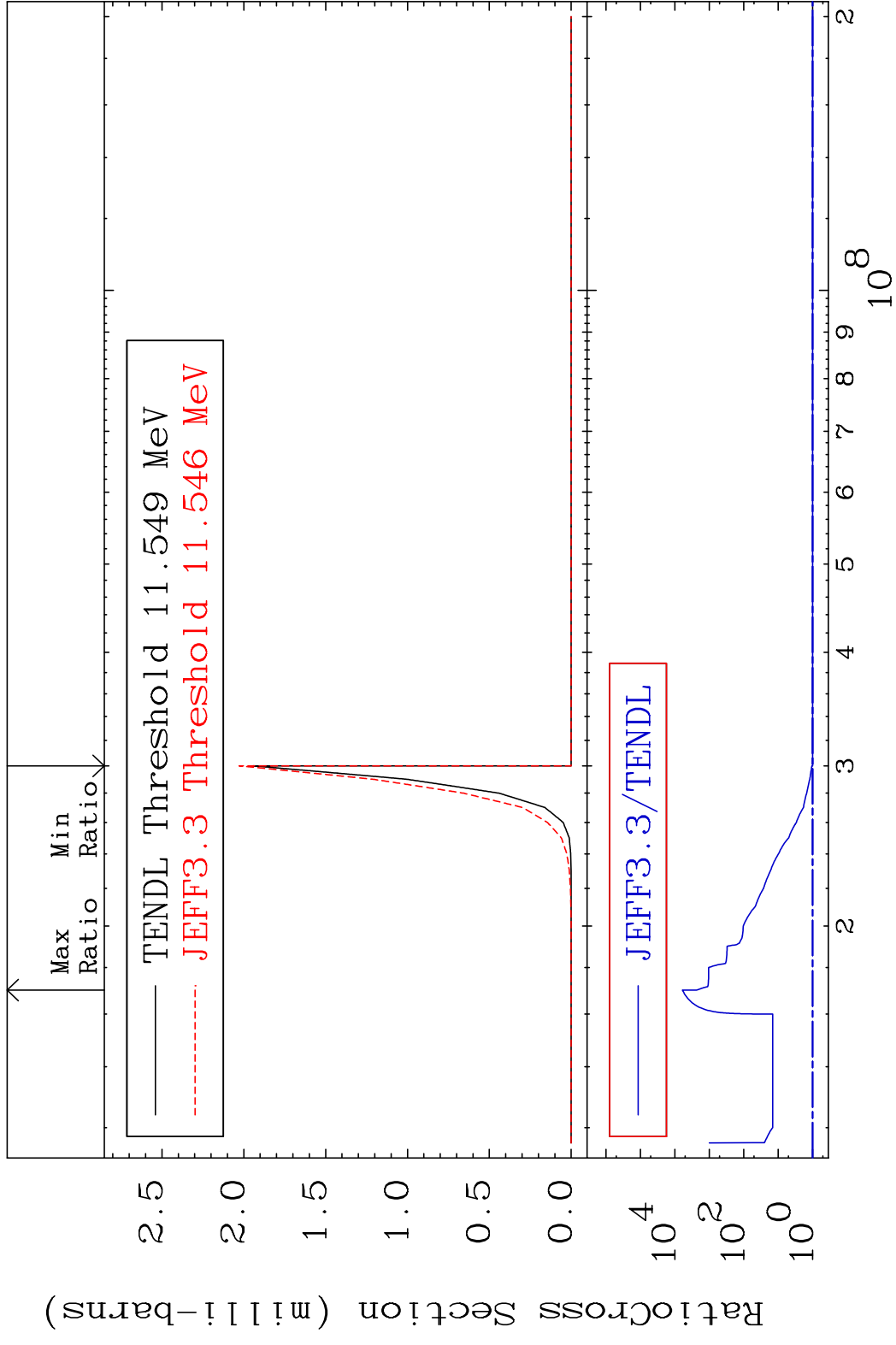
61-Pm-148m

MAT 6153

(n,3n) α

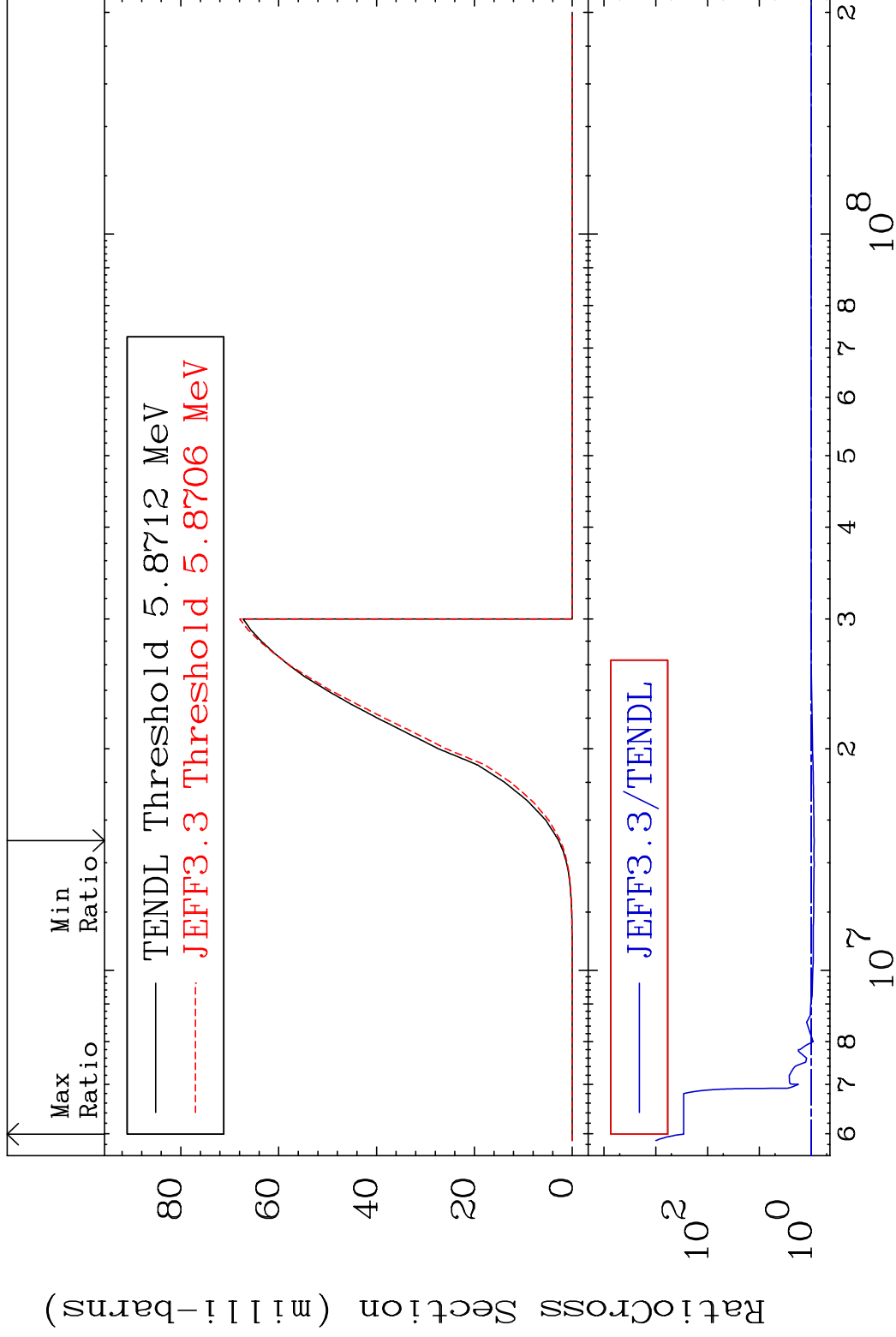
61-Pm-148m

Cross Section 0.000 To 9999. %



MAT 6153

(n, n') p 61-Pm-148m
Cross Section -12.11 To 9999. %



10

Incident Energy (eV)

61-Pm-148m

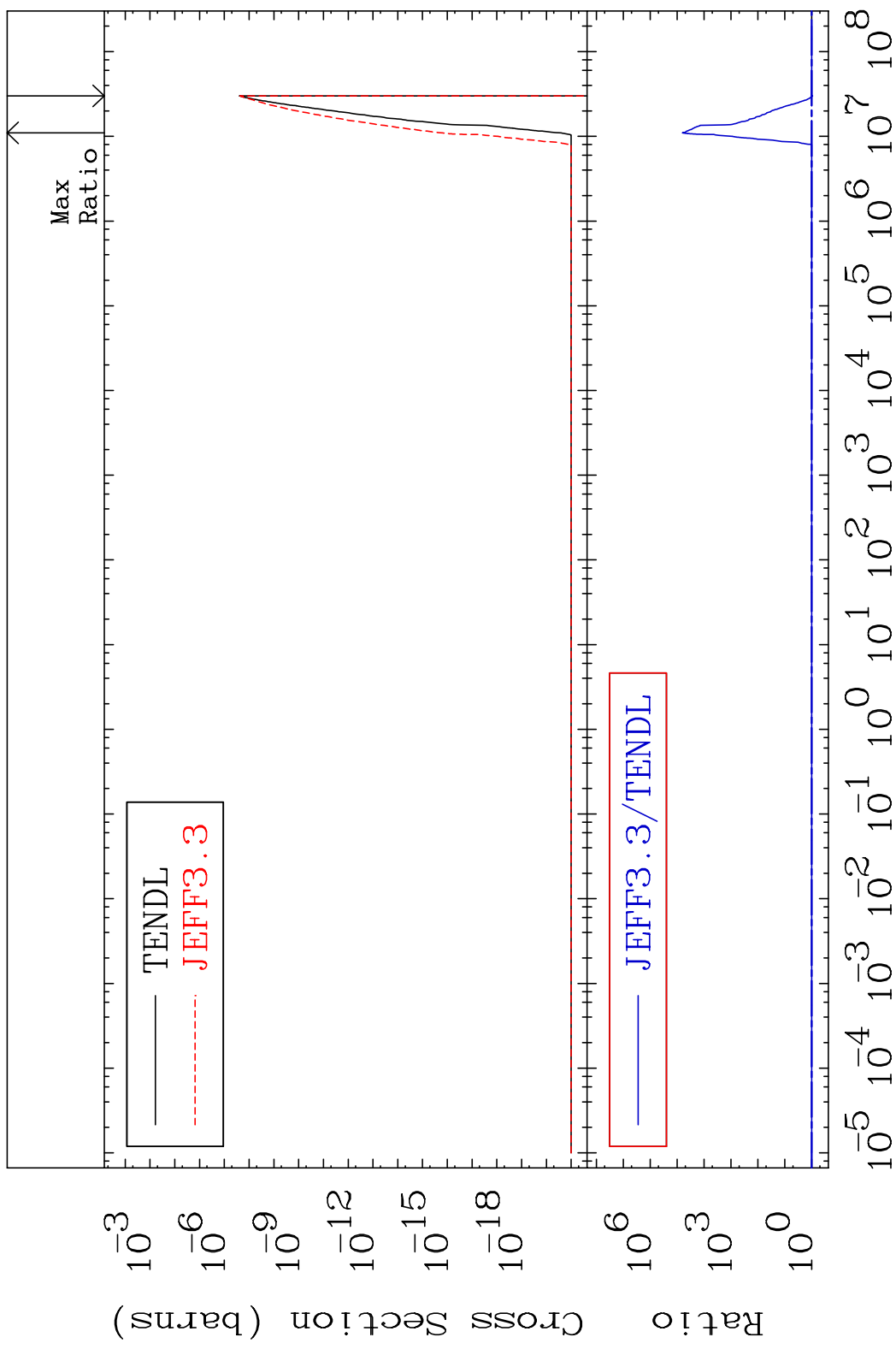
MAT 6153

(n, n') 2α

61-Pm-148m

Cross Section

-6.856 To 9999. %



11

Incident Energy (eV)

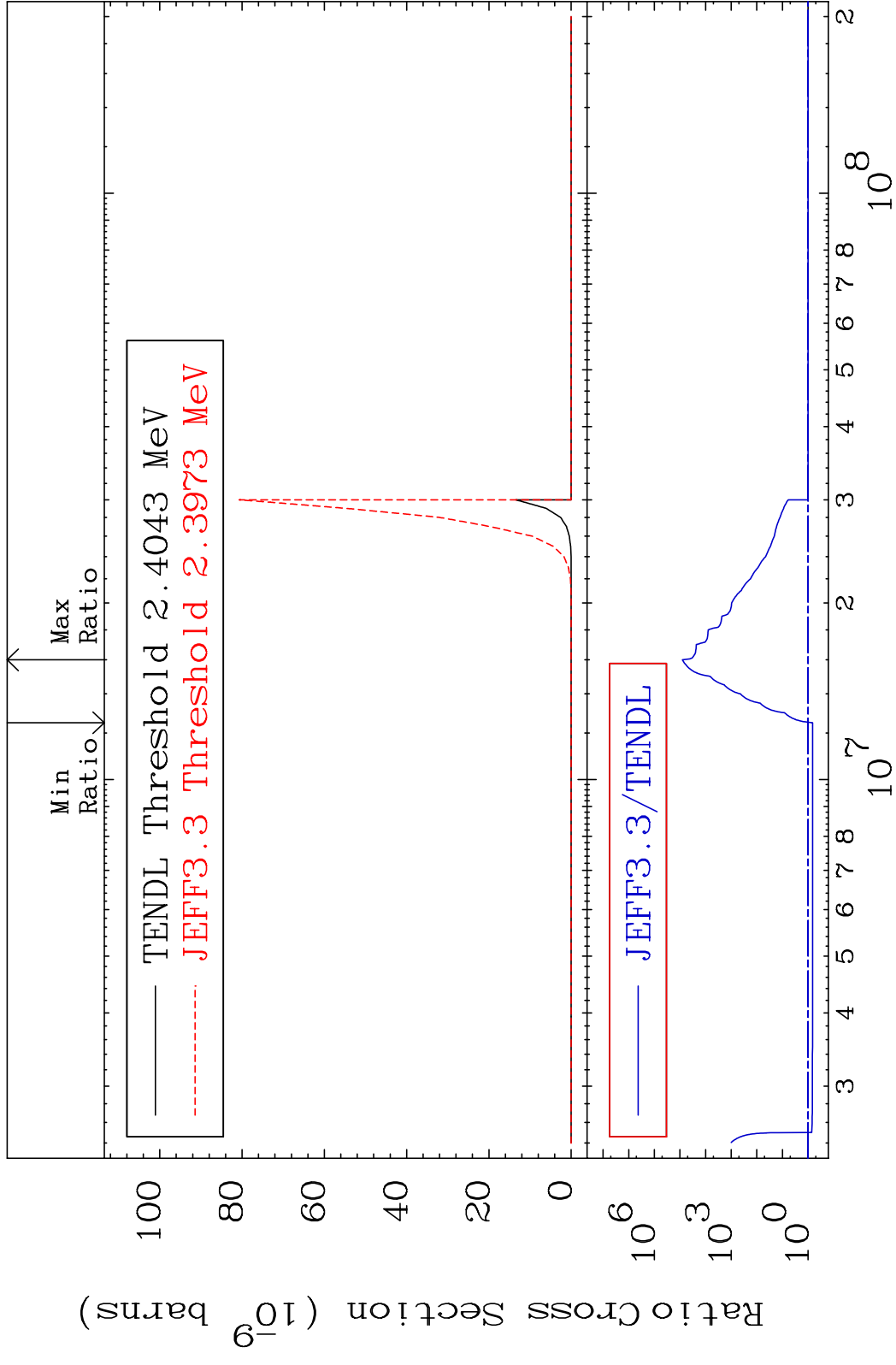
61-Pm-148m

MAT 6153

(n, 2n) 2α

61-Pm-148m

Cross Section -33.20 To 9999. %

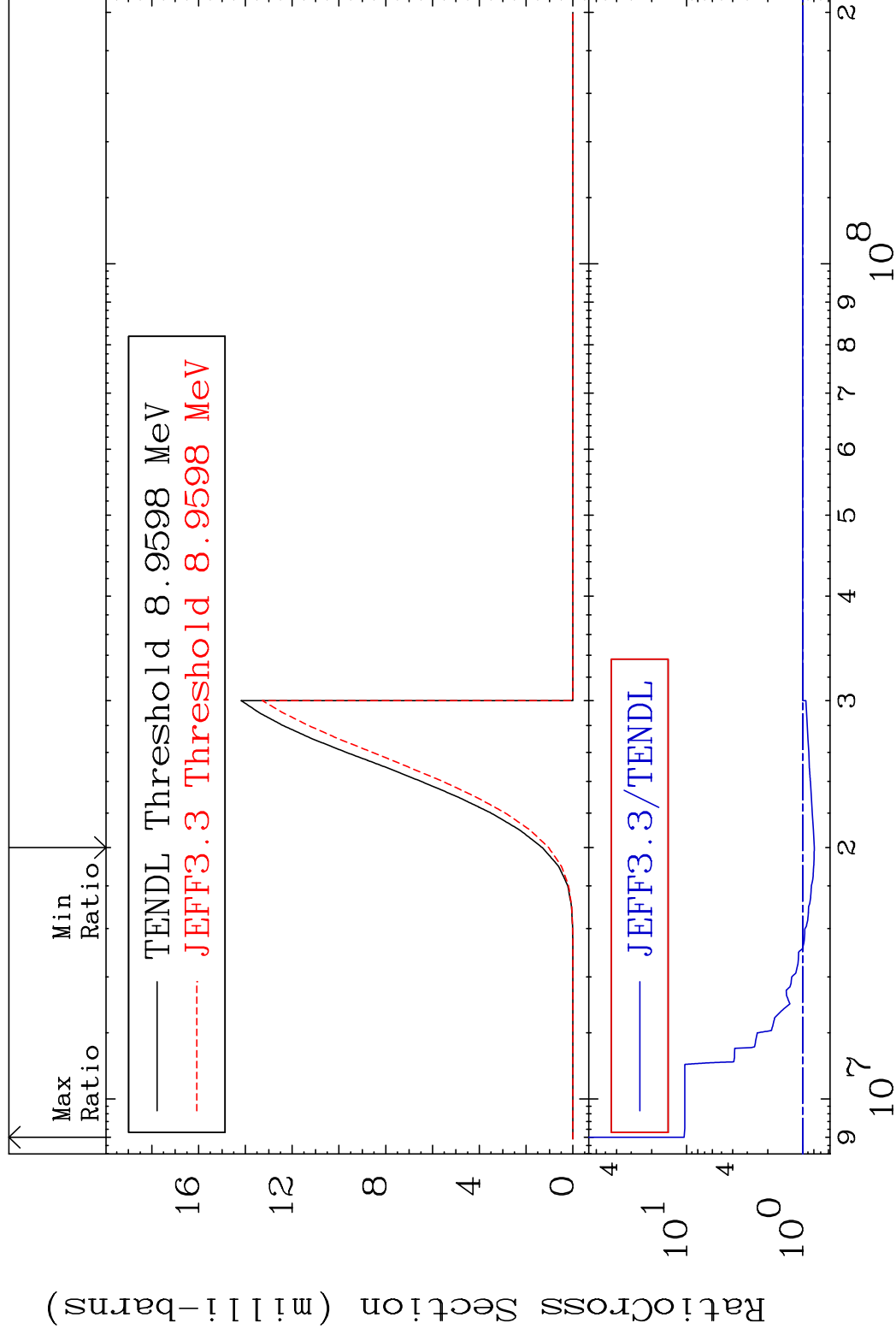


MAT 6153

(n, n') d

61-Pm-148m

Cross Section -20.59 To 950.7 %



13

Incident Energy (eV)

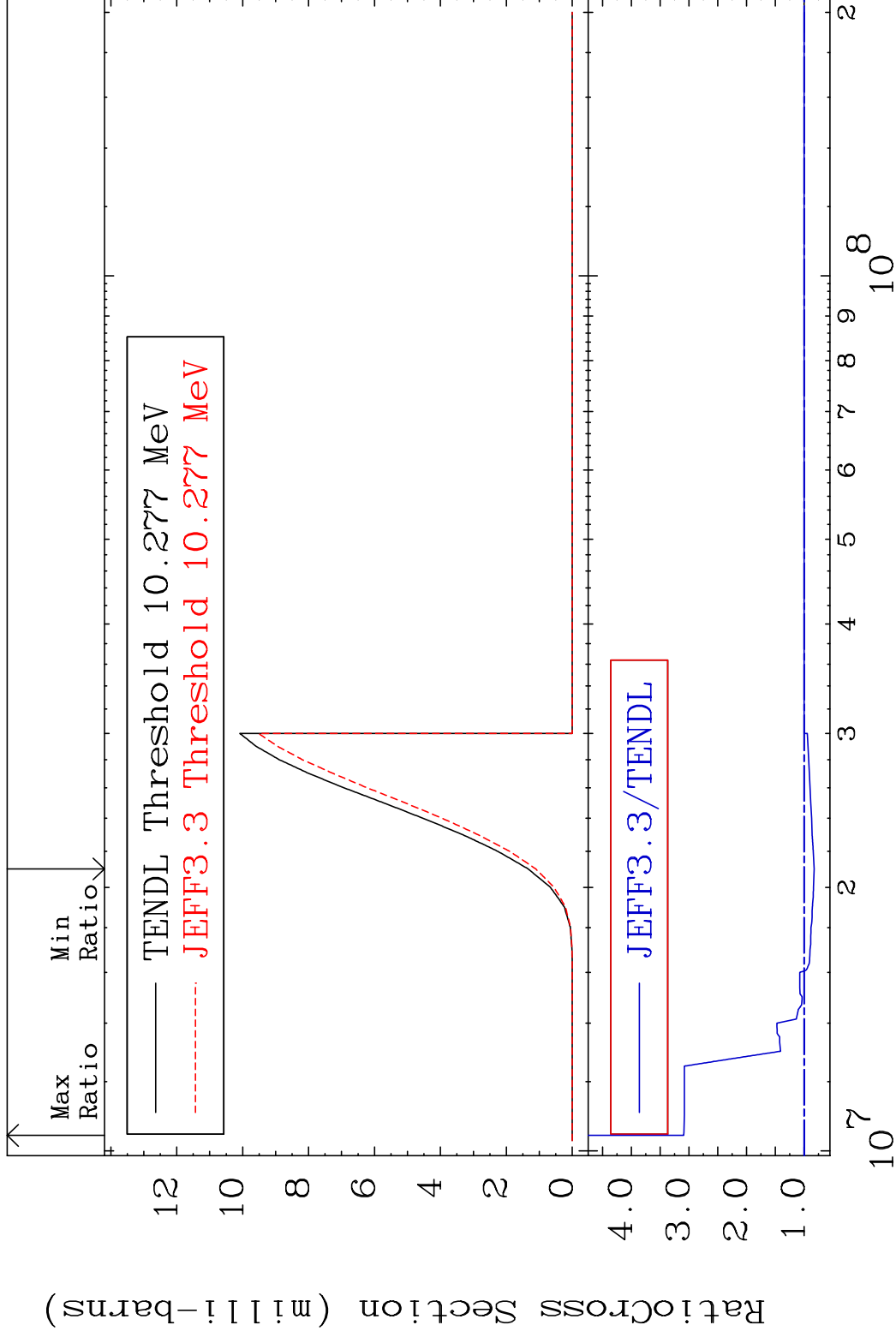
61-Pm-148m

MAT 6153

(n, n') t

61-Pm-148m

Cross Section -17.33 To 209.1 %



14

Incident Energy (eV)

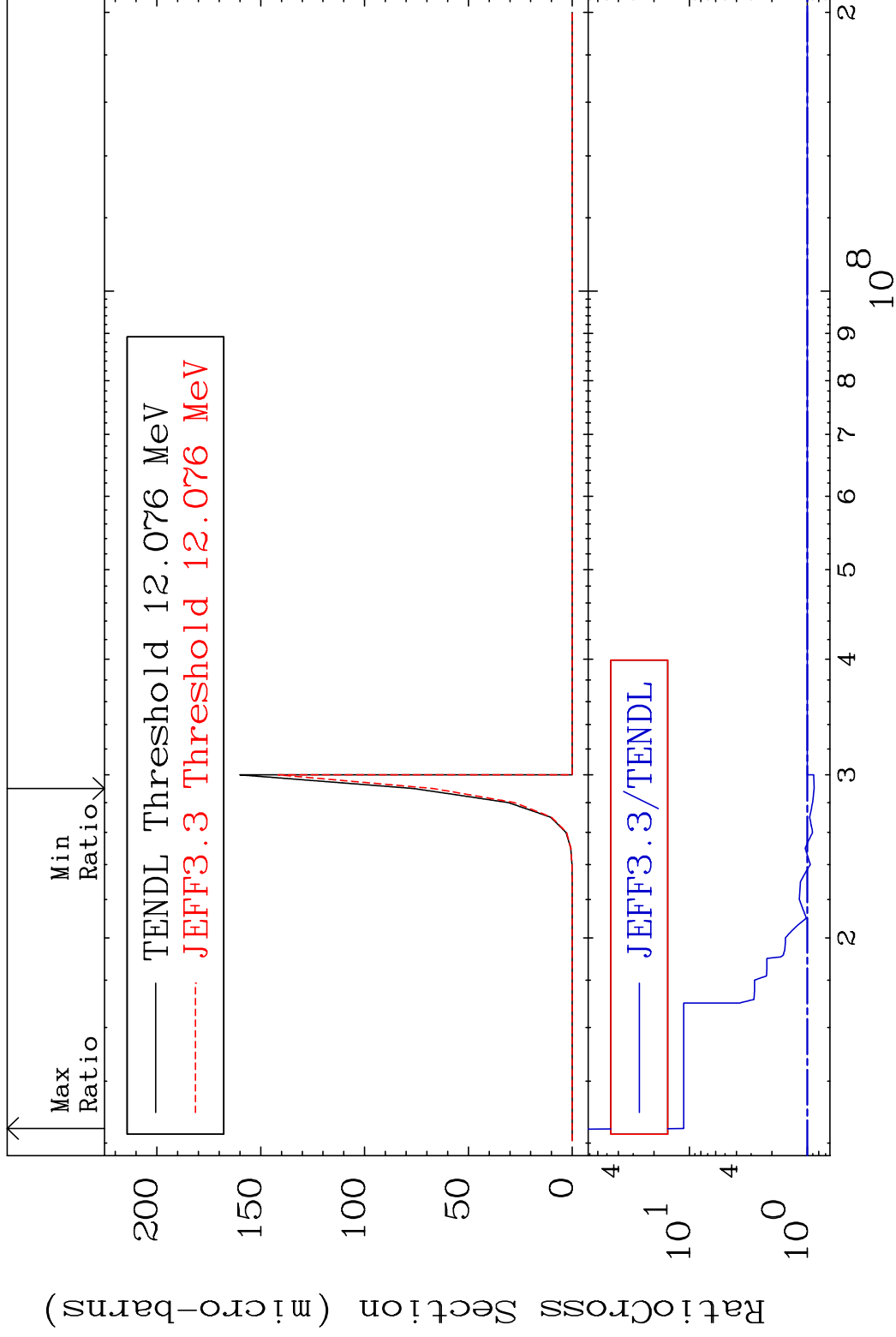
61-Pm-148m

MAT 6153

(n,n') He-3

61-Pm-148m

Cross Section -12.28 To 1020. %



15

Incident Energy (eV)

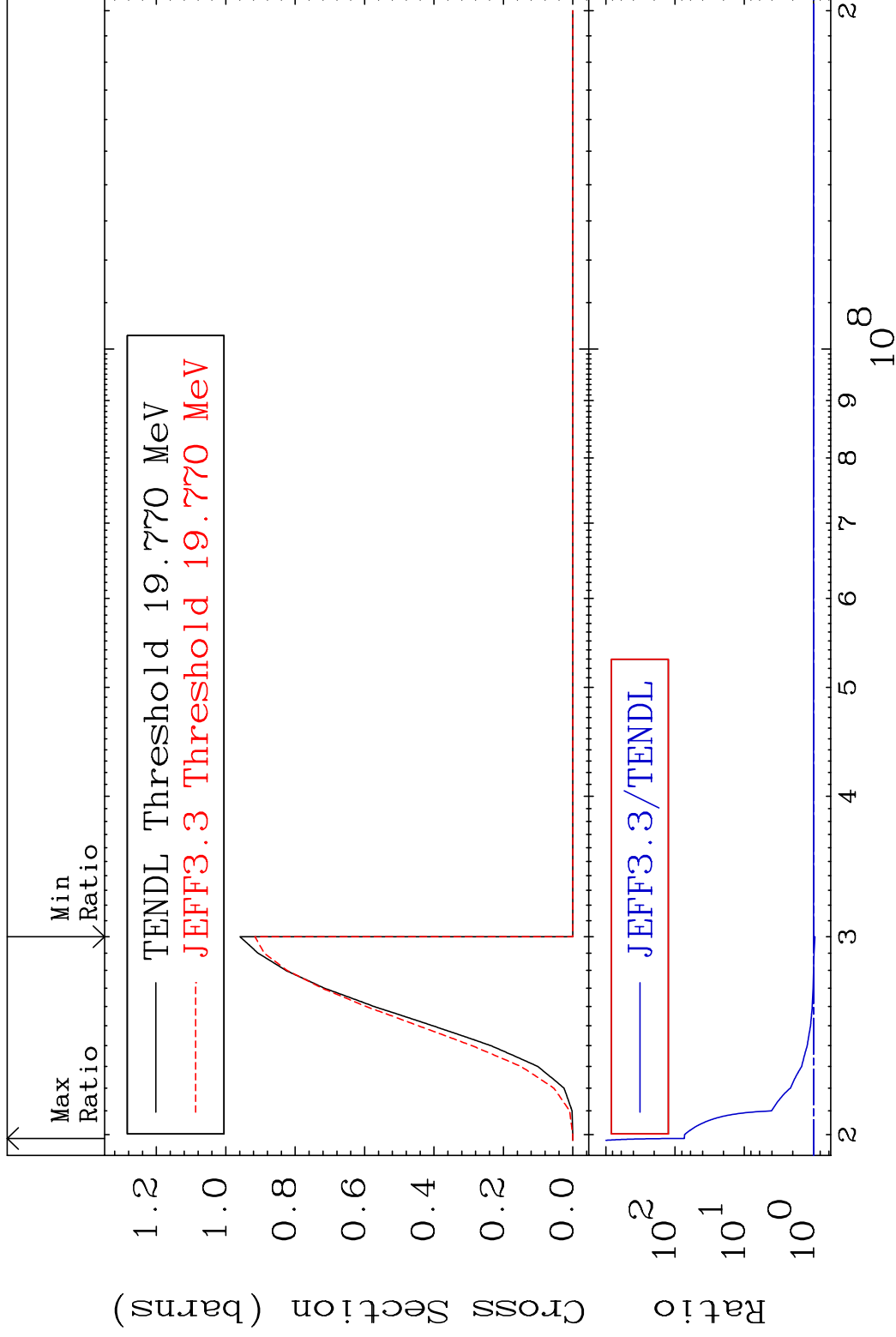
61-Pm-148m

MAT 6153

(n, 4n)

61-Pm-148m

Cross Section -4.489 To 7249. %



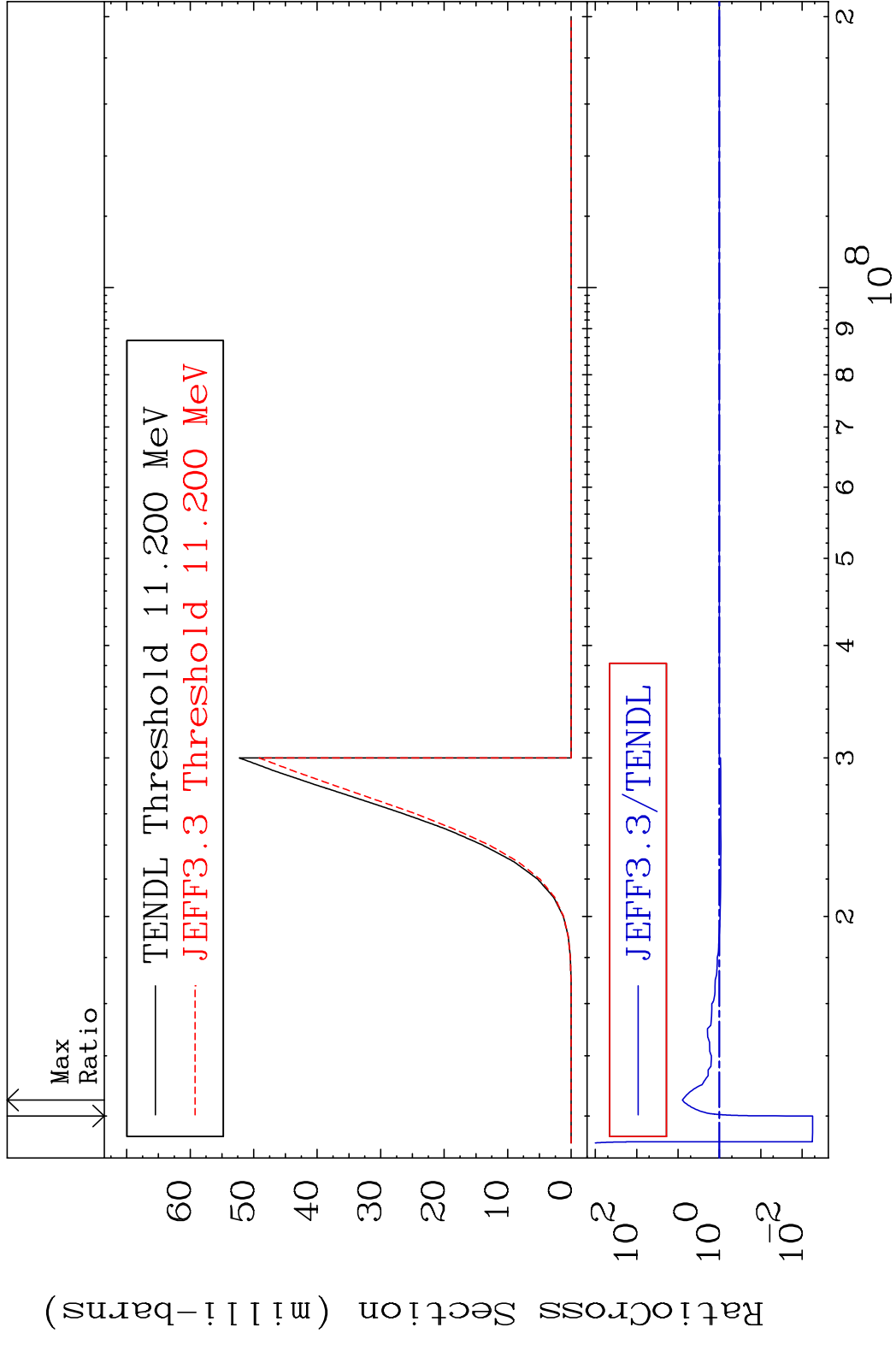
MAT 6153

(n,2n) p

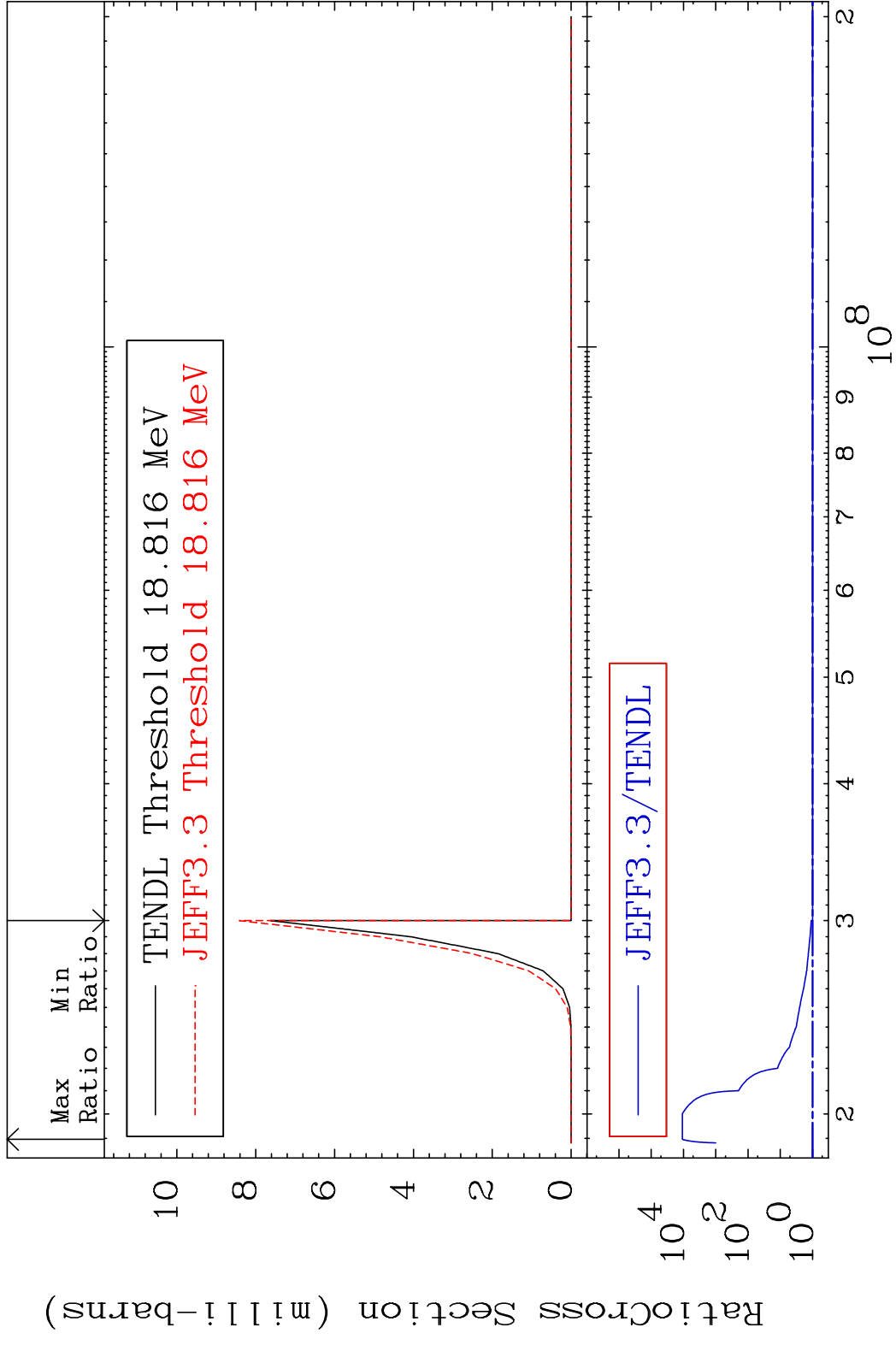
61-Pm-148m

Cross Section

-99.44 To 687.5 %



MAT 6153 (n,3n) p 61-Pm-148m
 Cross Section 0.000 To 9999. %



18 18 Incident Energy (eV) 61-Pm-148m

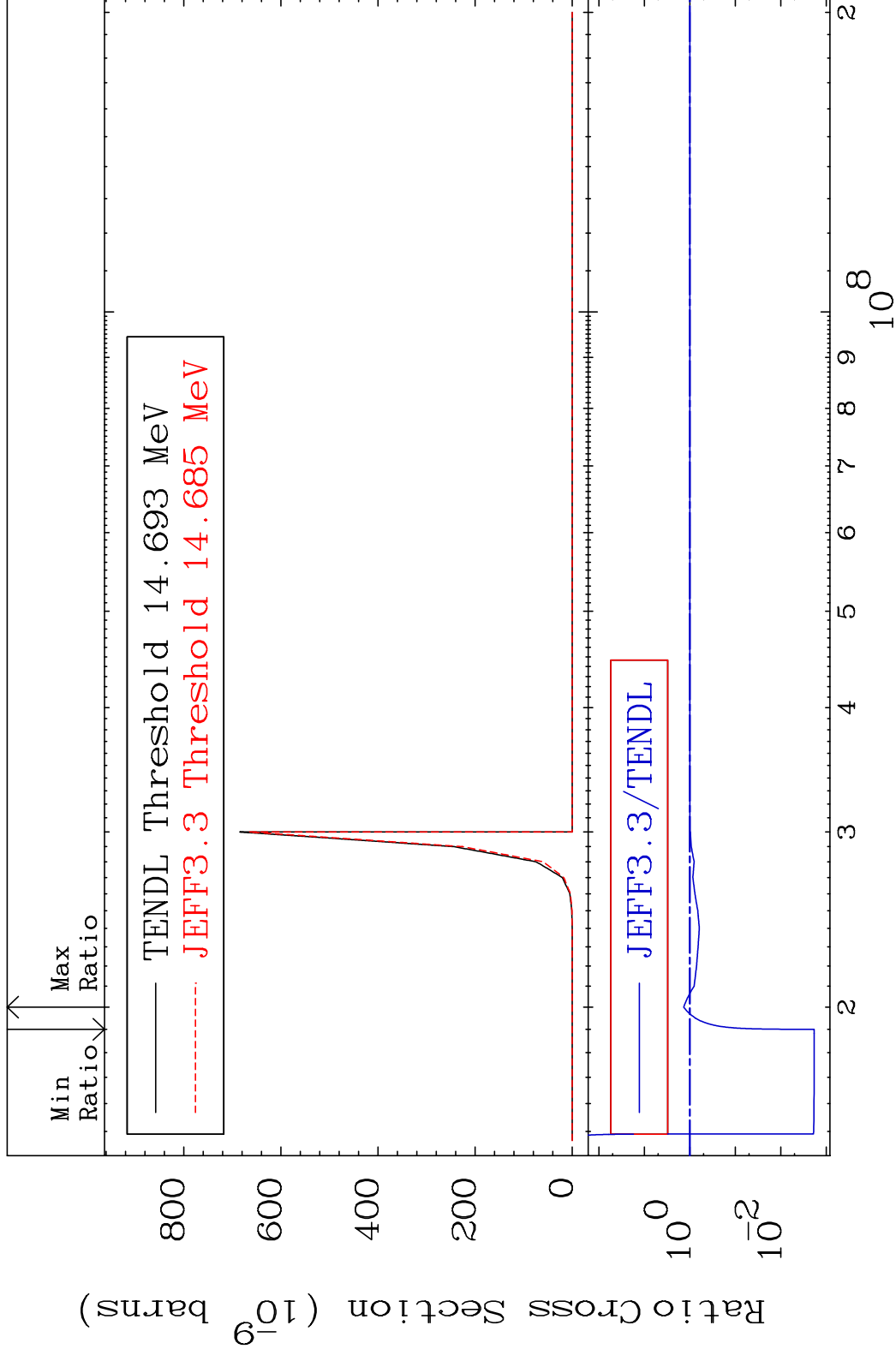
MAT 6153

(n,2n) p

61-Pm-148m

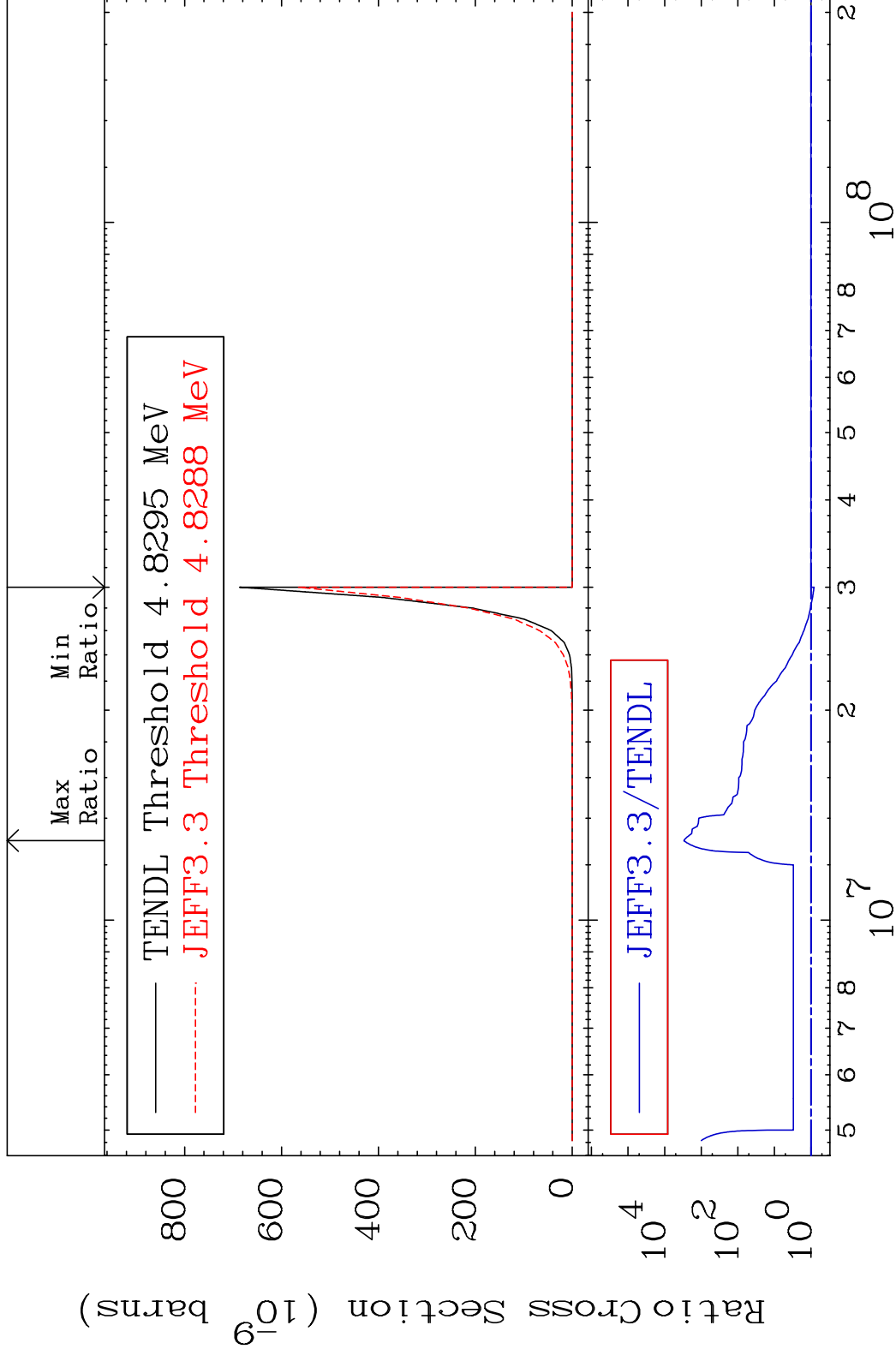
Cross Section

-99.82 To 36.71 %



MAT 6153

(n, n') p α 61-Pm-148m
Cross Section -17.64 To 9999. %

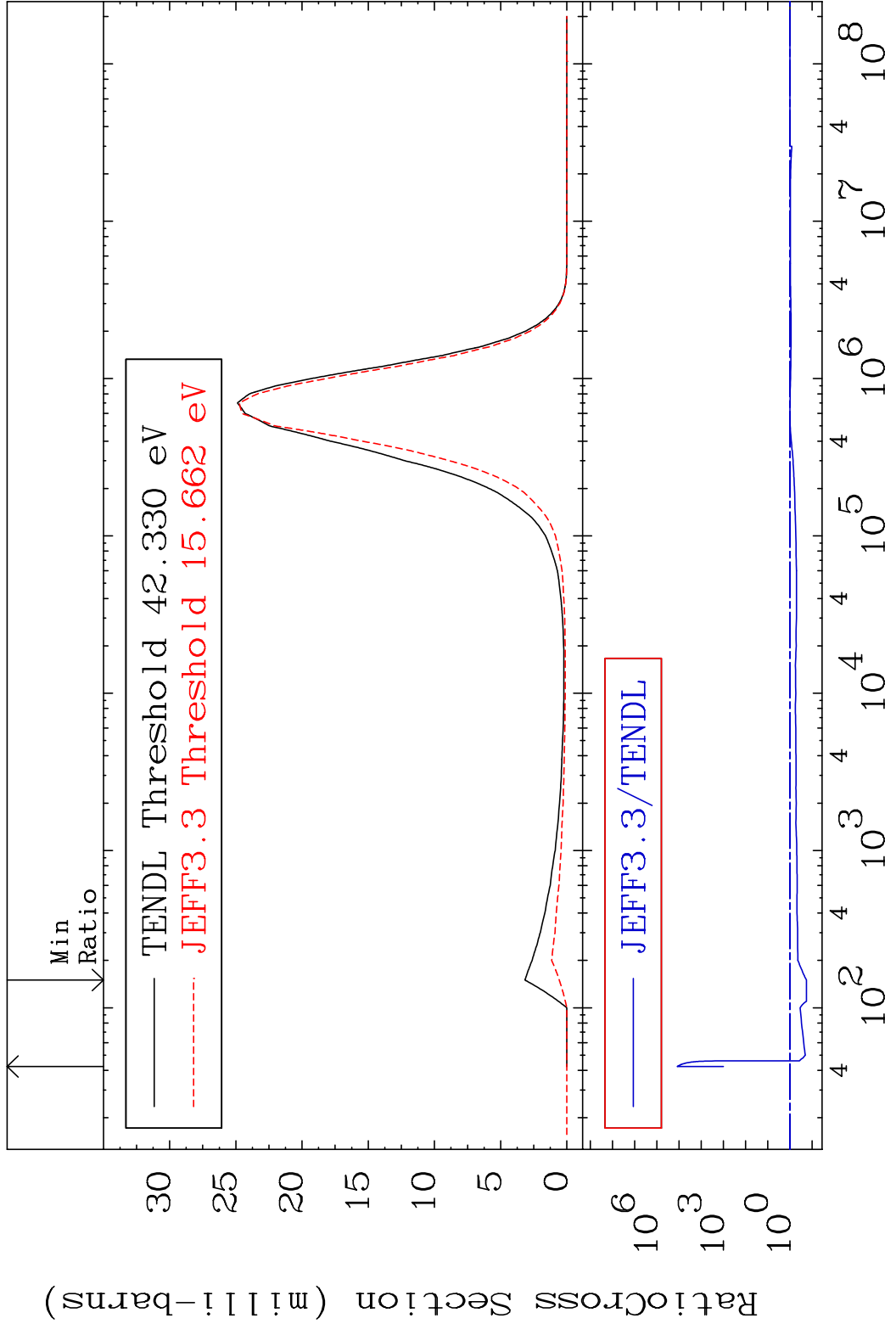


20

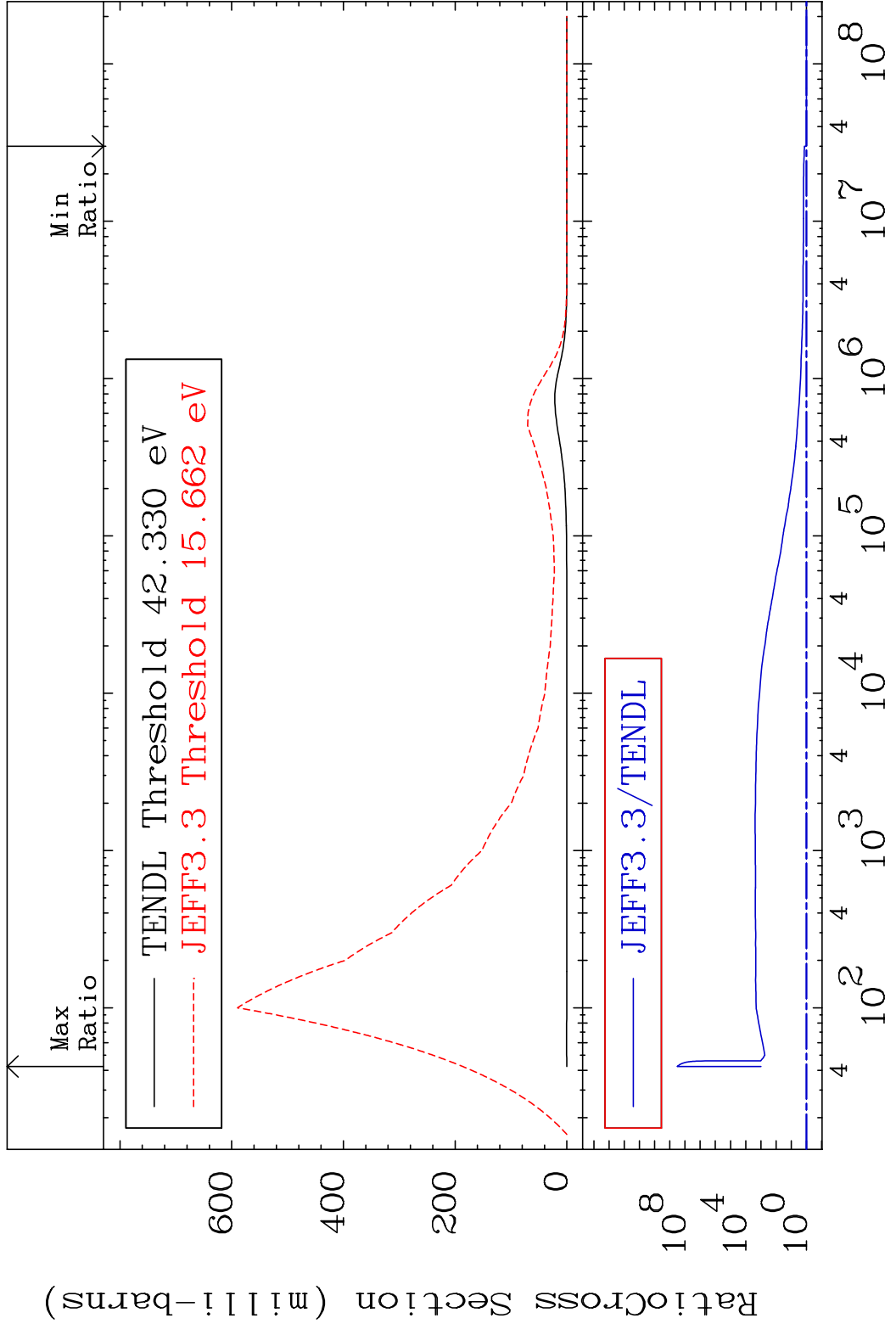
Incident Energy (eV)

61-Pm-148m

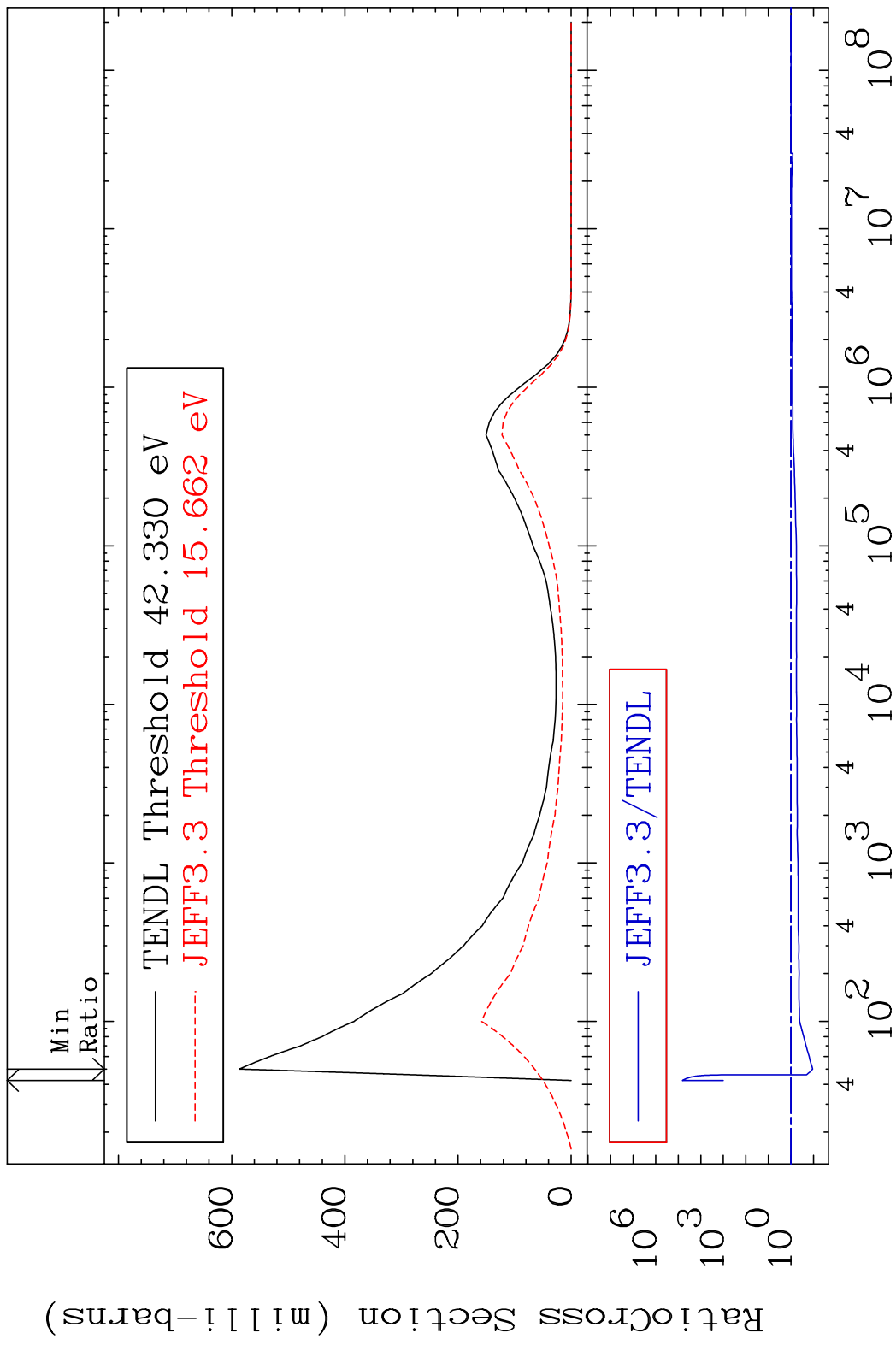
MAT 6153 MT= 51 (n, n') Level 61-Pm-148m
Cross Section -81.91 To 9999. %



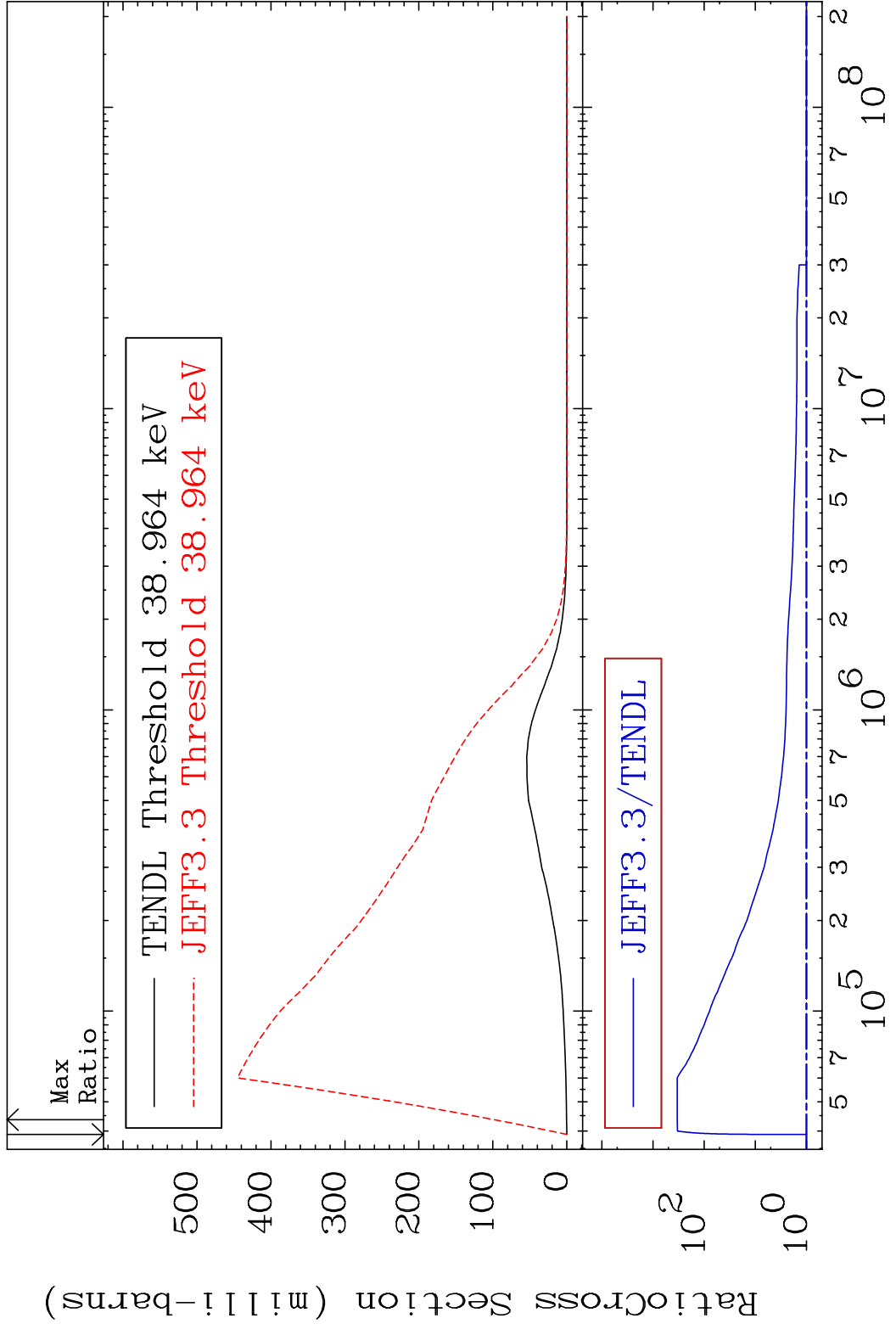
MAT 6153 MT= 52 (n, n') Level 61-Pm-148m
 Cross Section 0.000 To 9999. %



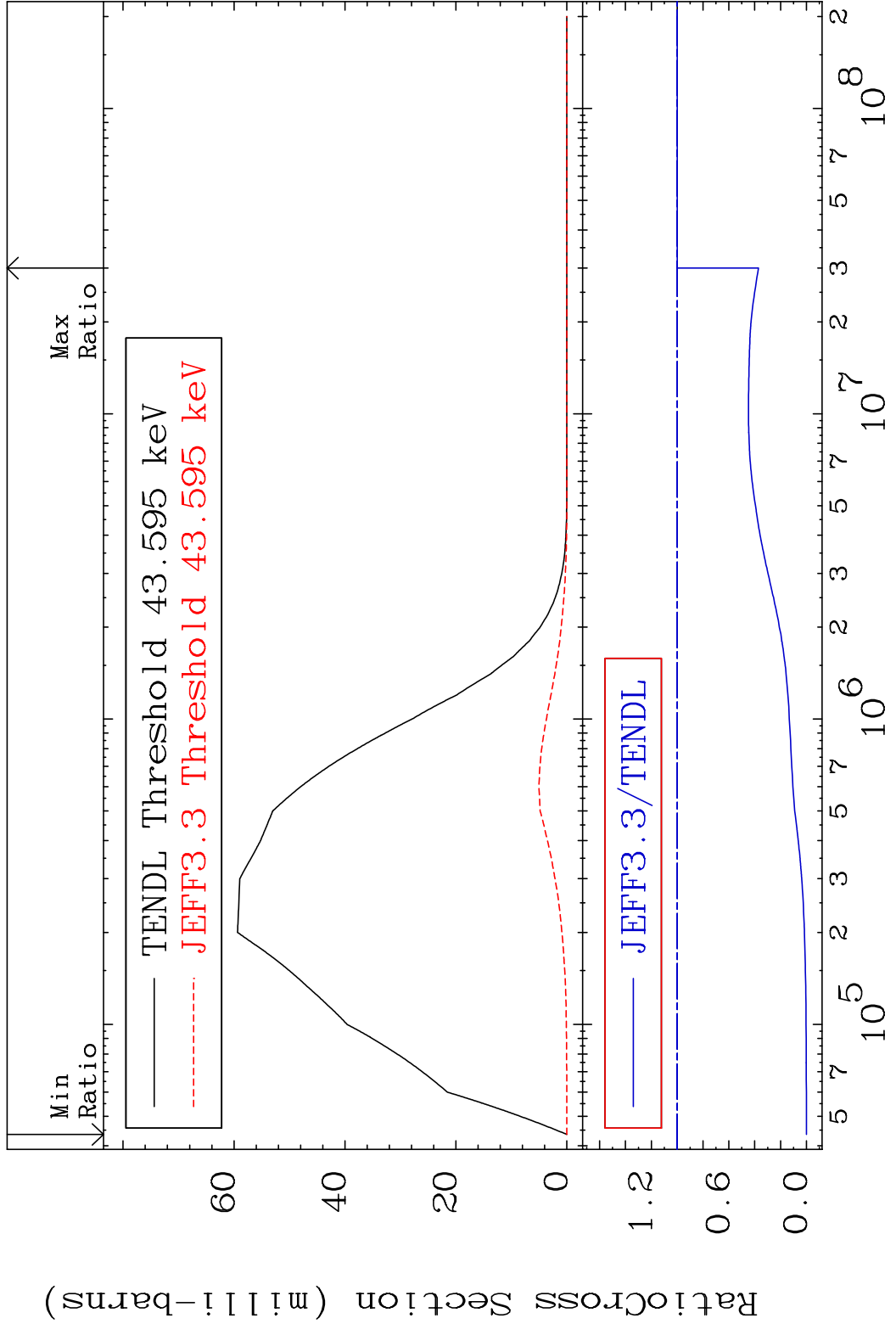
MAT 6153 MT= 53 (n,n') Level 61-Pm-148m
 Cross Section -88.99 To 9999. %



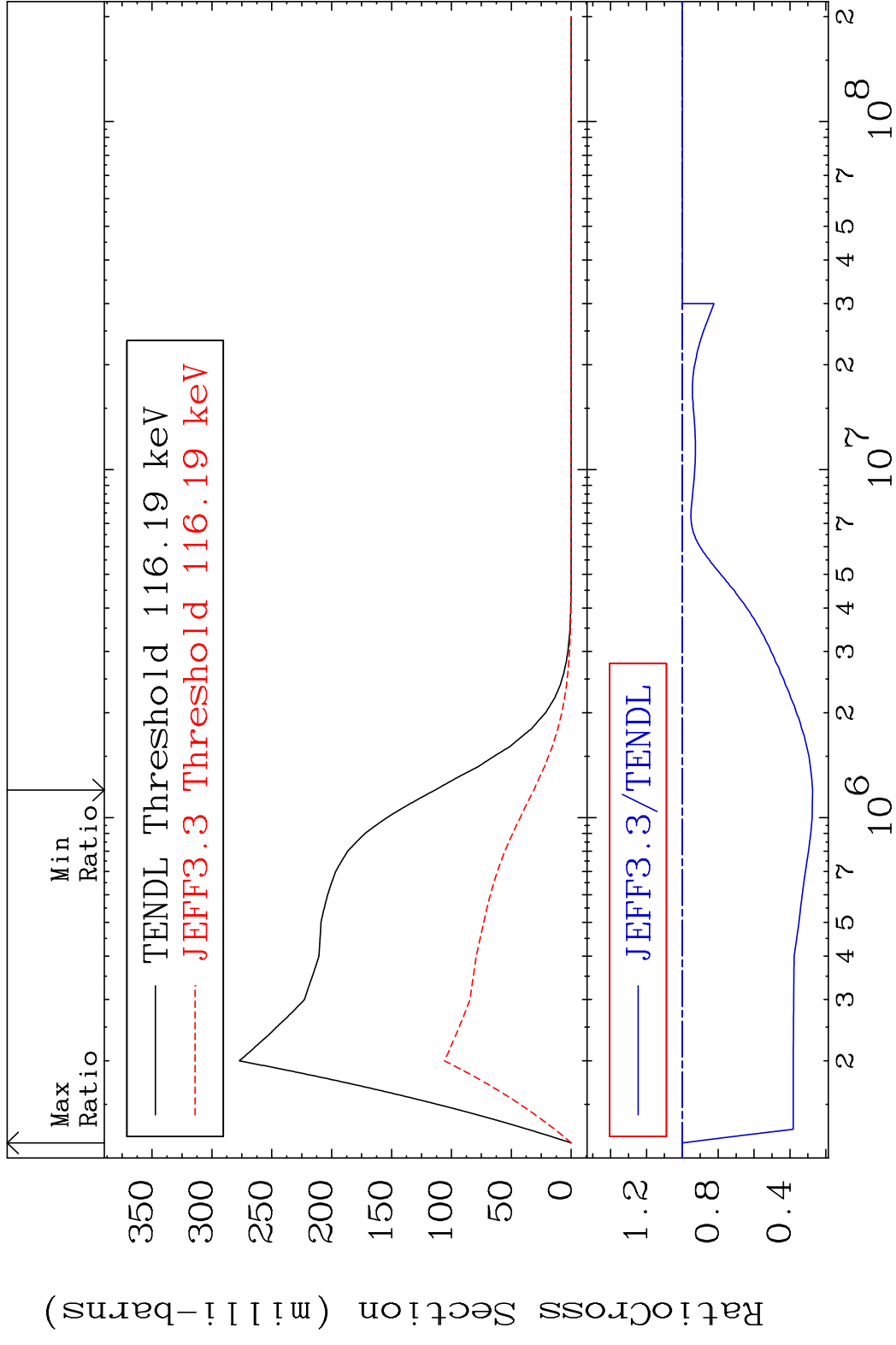
MAT 6153 MT= 54 (n,n') Level 61-Pm-148m
 Cross Section 0.000 To 9999. %



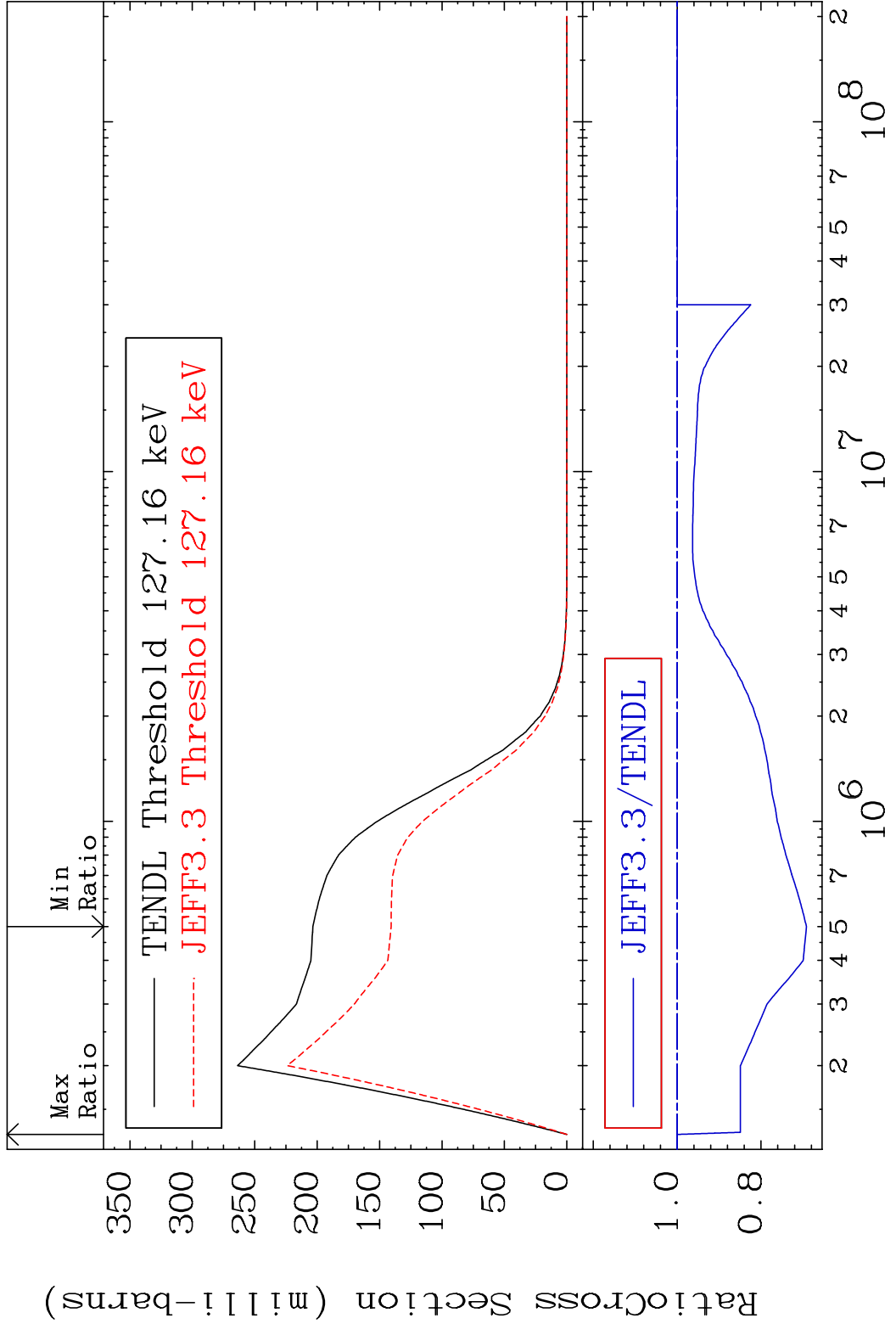
MAT 6153 MT= 55 (n,n') Level 61-Pm-148m
 Cross Section -100.0 To 0.000 %



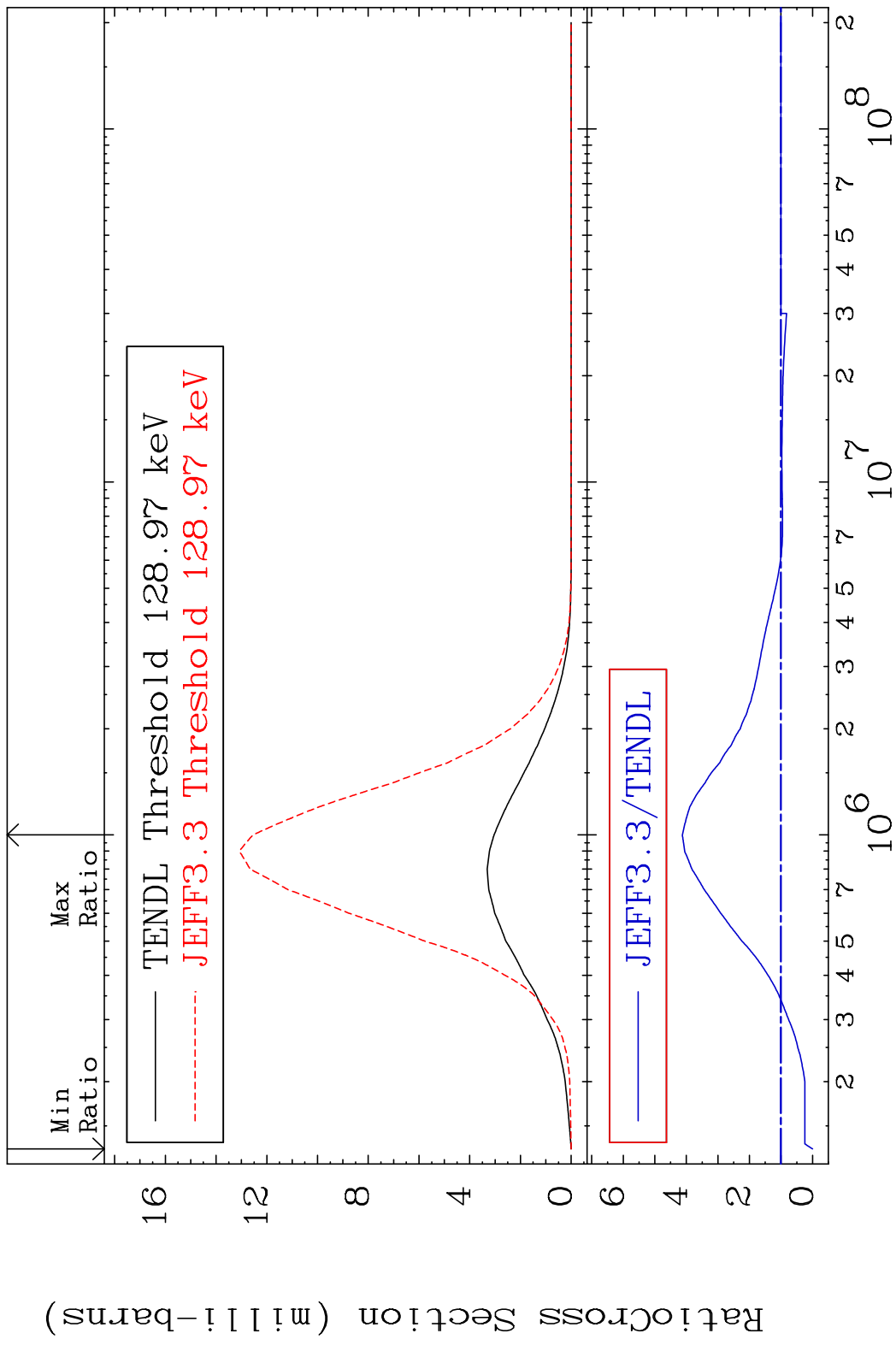
MAT 6153 MT= 56 (n,n') Level 61-Pm-148m
 Cross Section -72.59 To 0.000 %



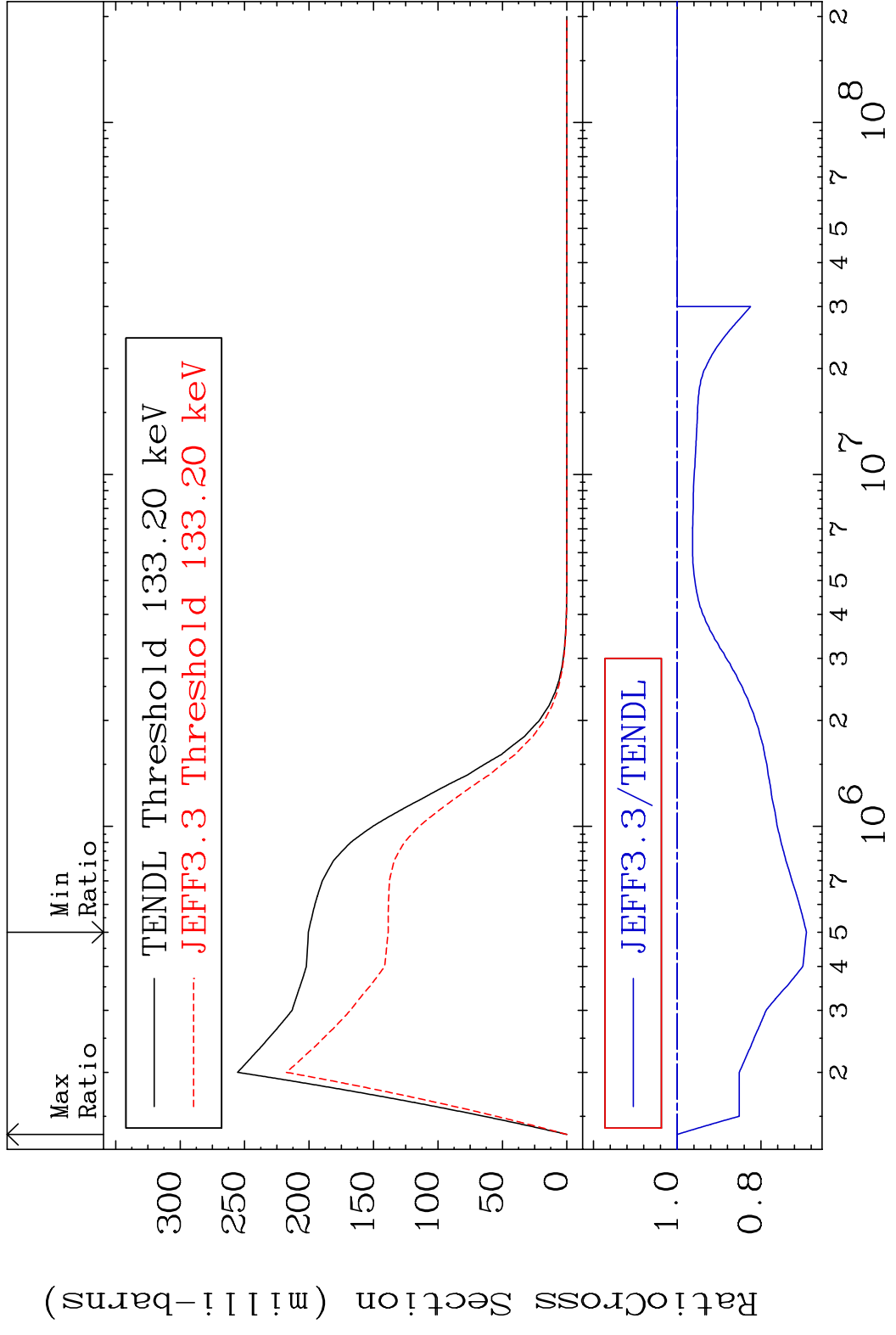
MAT 6153 MT= 57 (n, n') Level 61-Pm-148m
 Cross Section -30.82 To 0.000 %



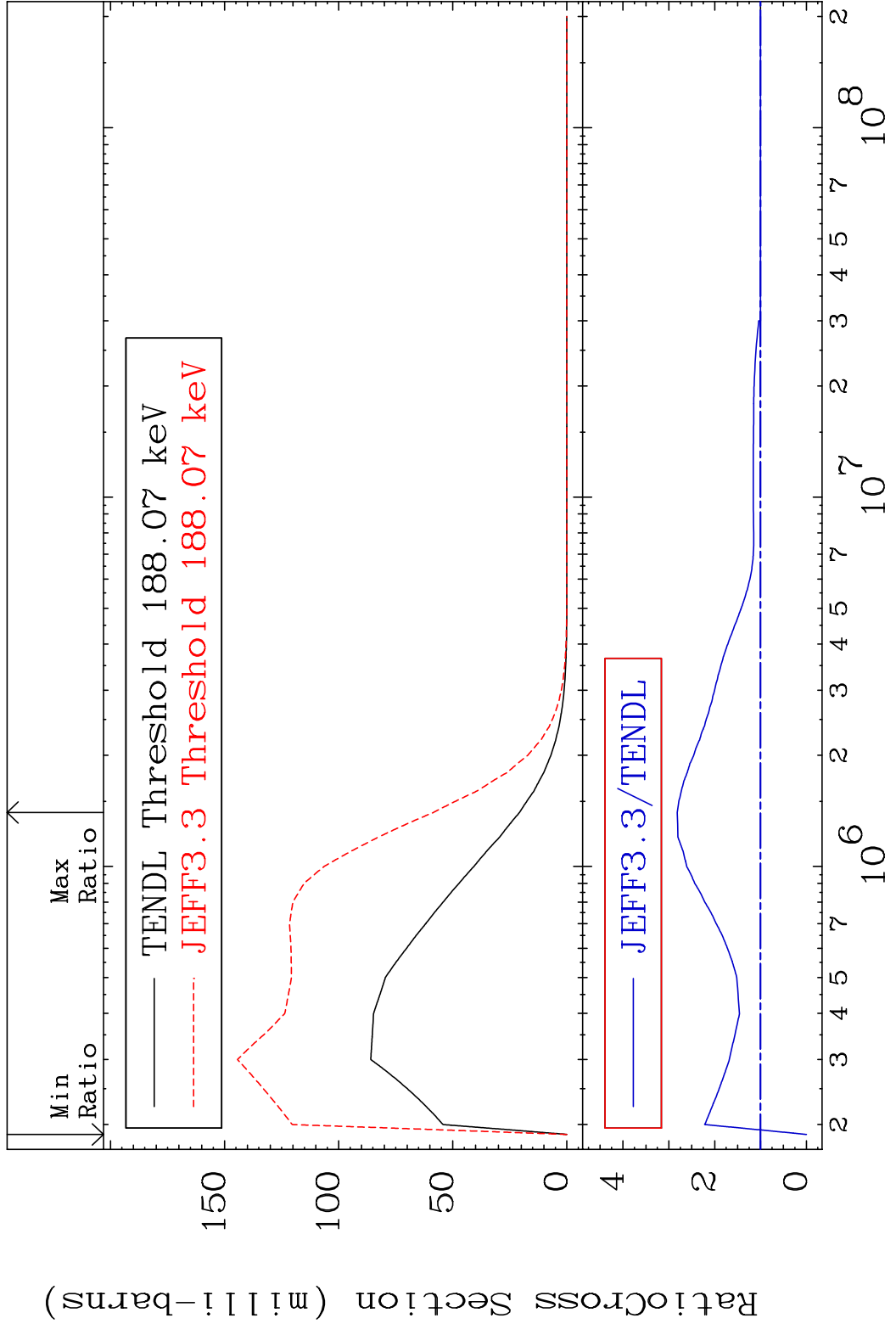
MAT 6153 MT= 58 (n,n') Level 61-Pm-148m
 Cross Section -100.0 To 312.7 %



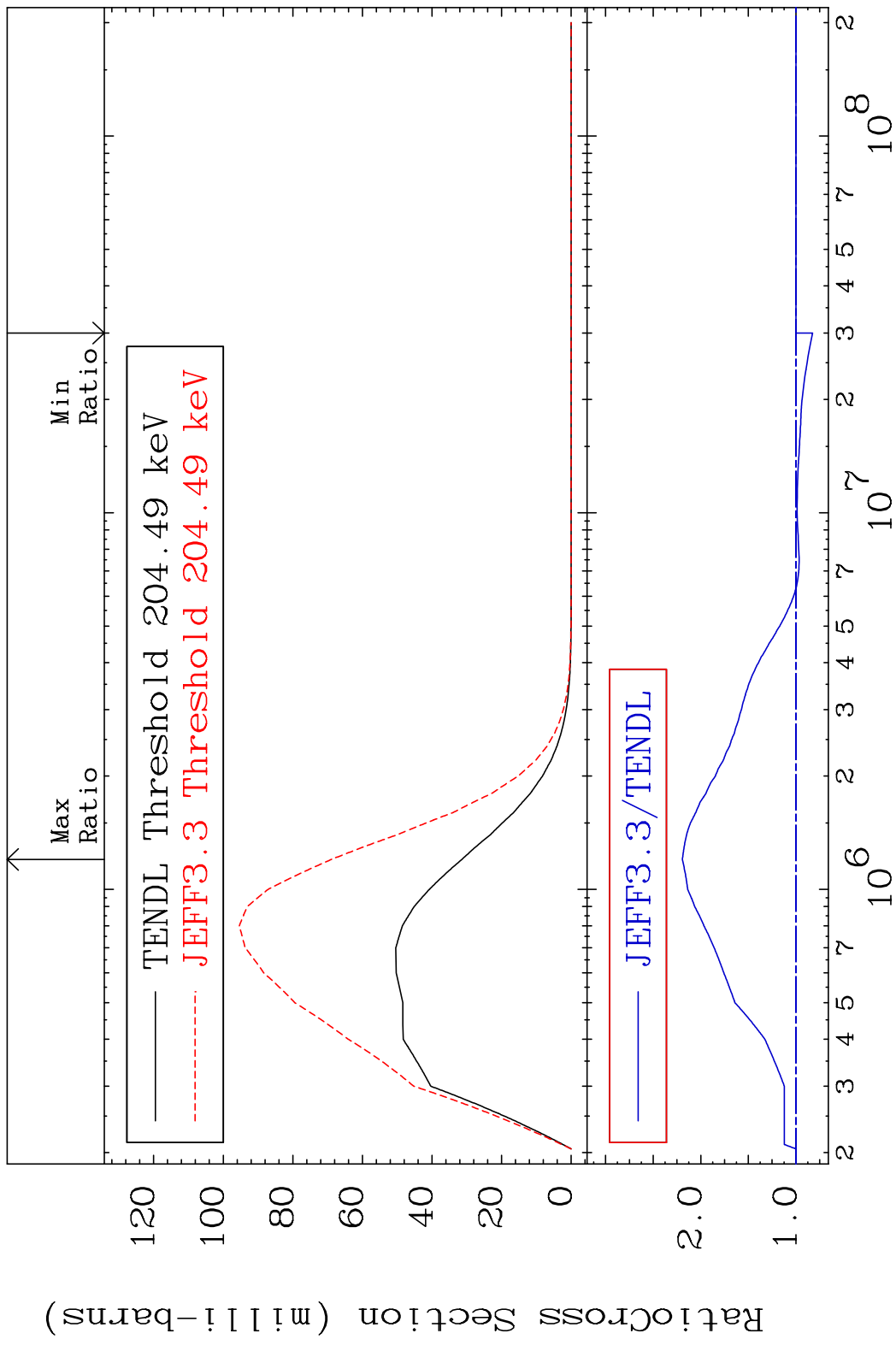
MAT 6153 MT= 59 (n, n') Level 61-Pm-148m
 Cross Section -30.86 To 0.000 %



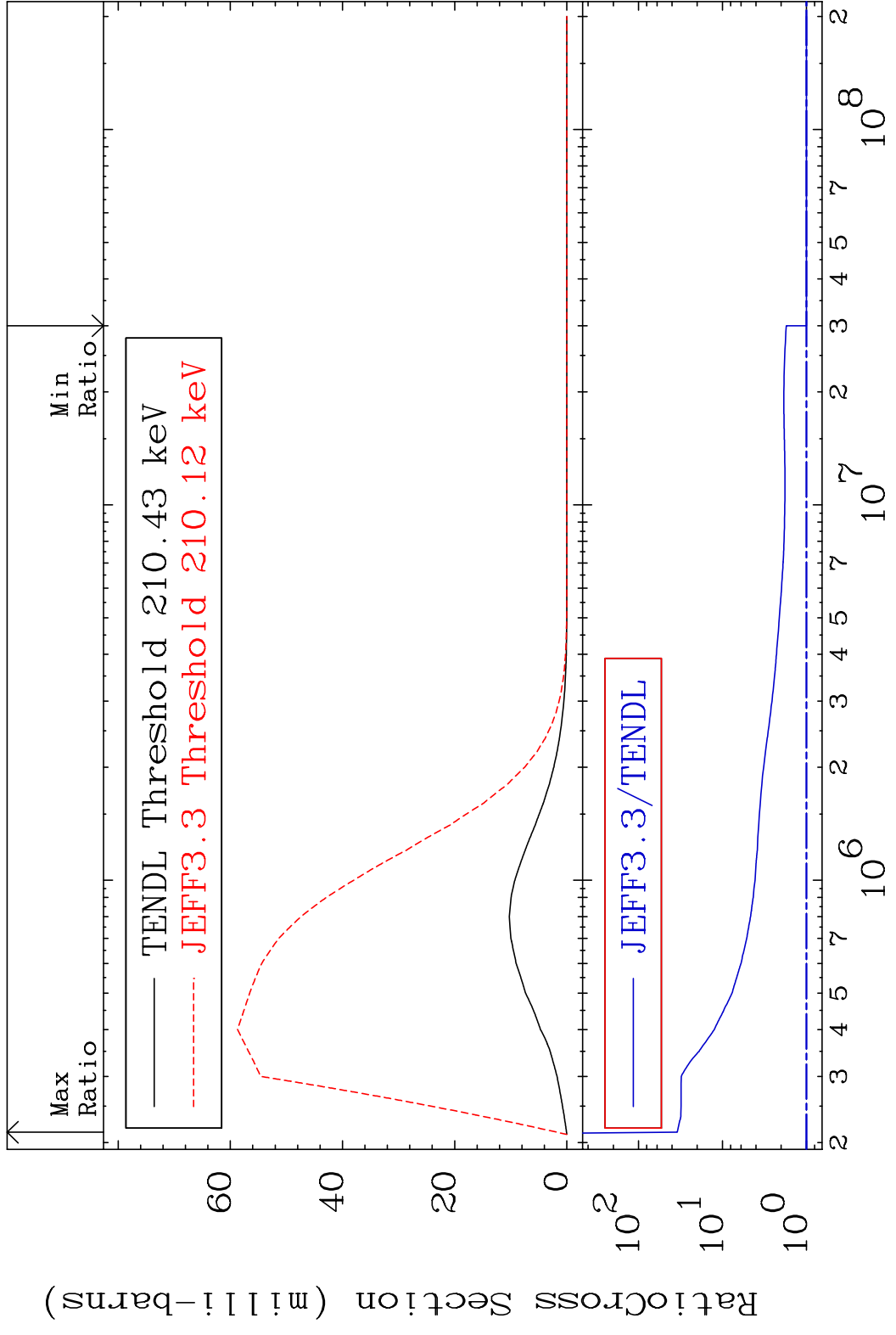
MAT 6153 MT= 60 (n,n') Level 61-Pm-148m
 Cross Section -100.0 To 181.8 %



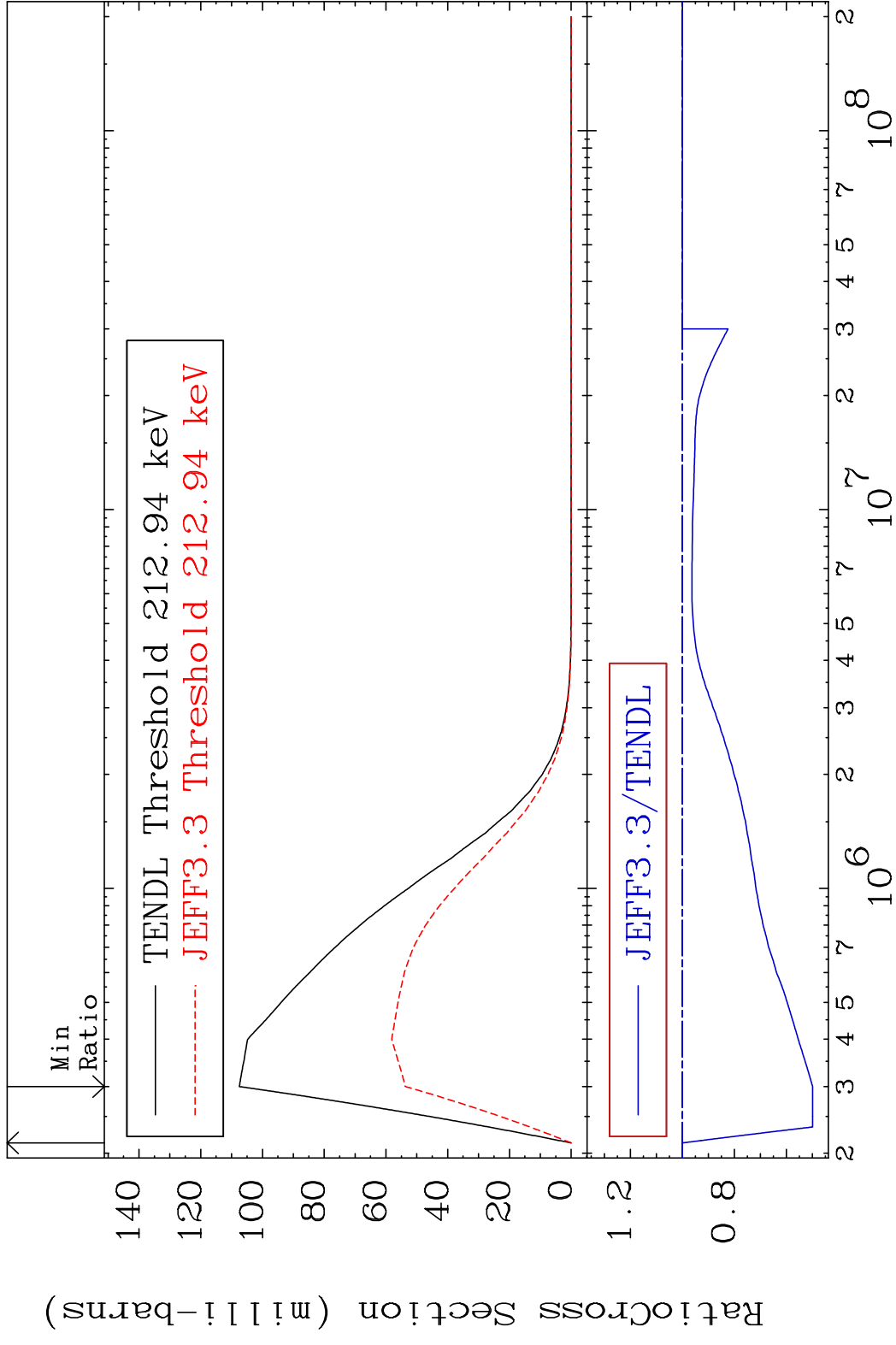
MAT 6153 MT= 61 (n,n') Level 61-Pm-148m
 Cross Section -17.51 To 119.3 %



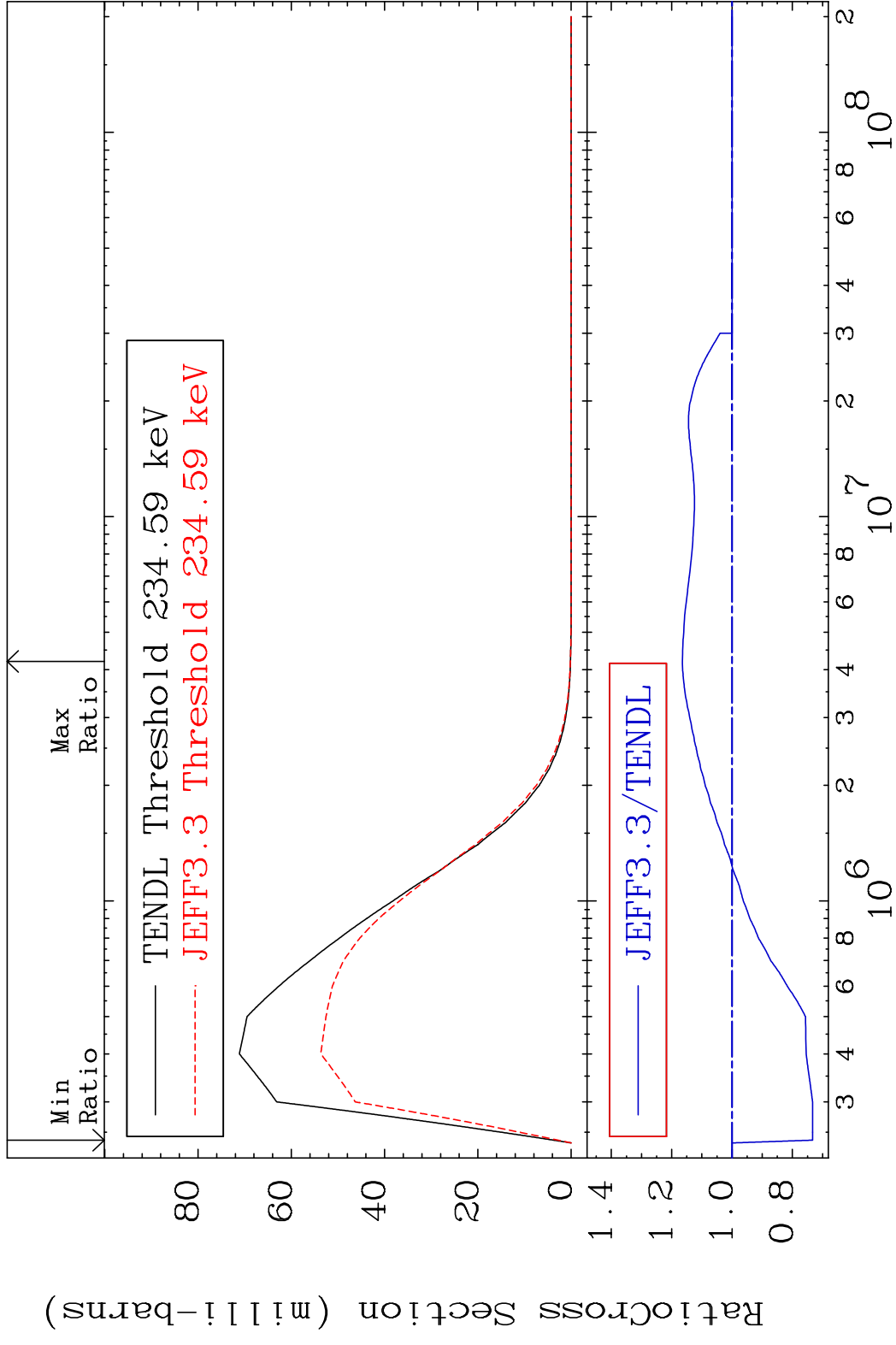
MAT 6153 MT= 62 (n, n') Level 61-Pm-148m
 Cross Section 0.000 To 3366. %



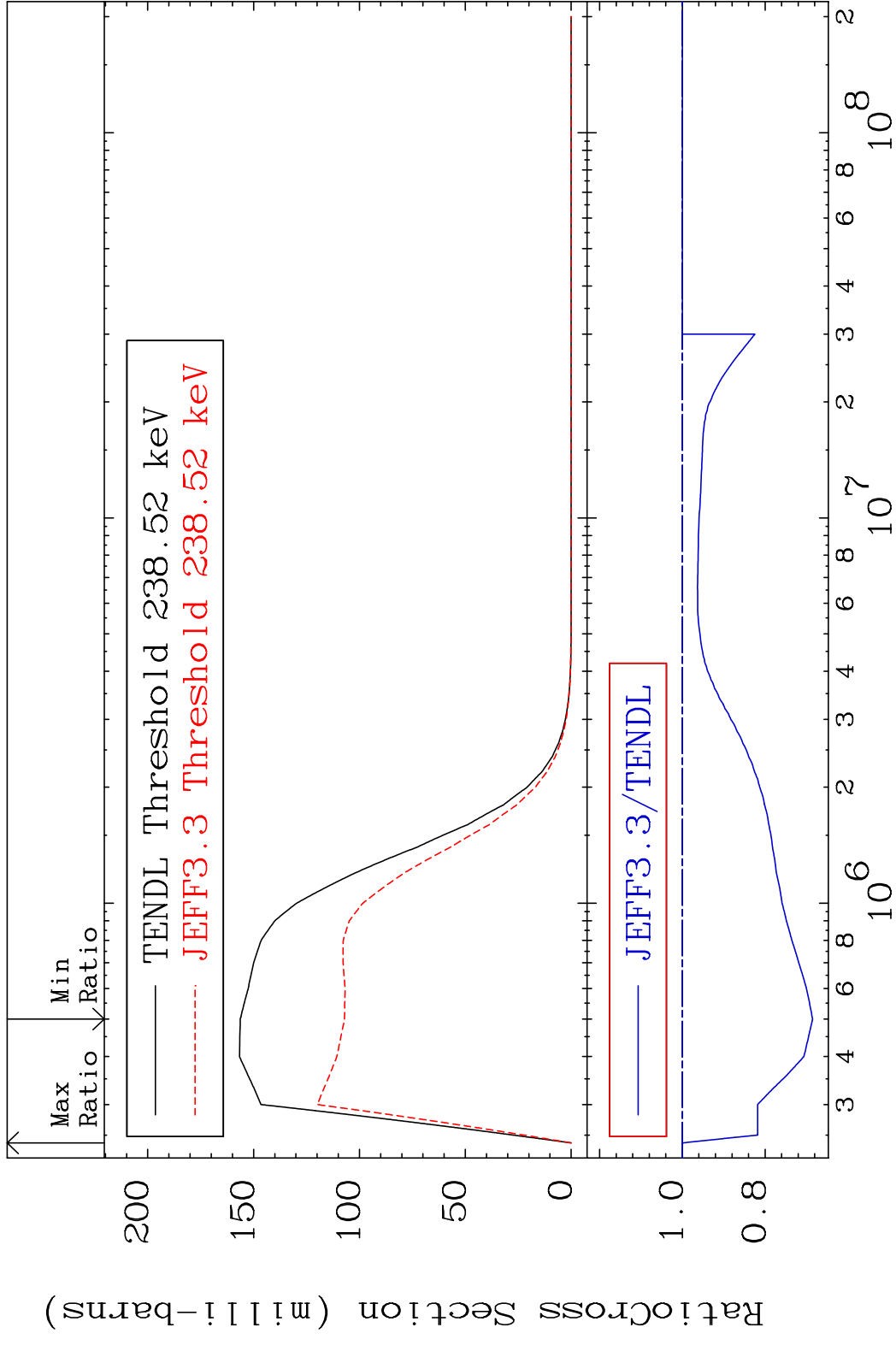
MAT 6153 MT= 63 (n, n') Level 61-Pm-148m
 Cross Section -50.03 To 0.000 %



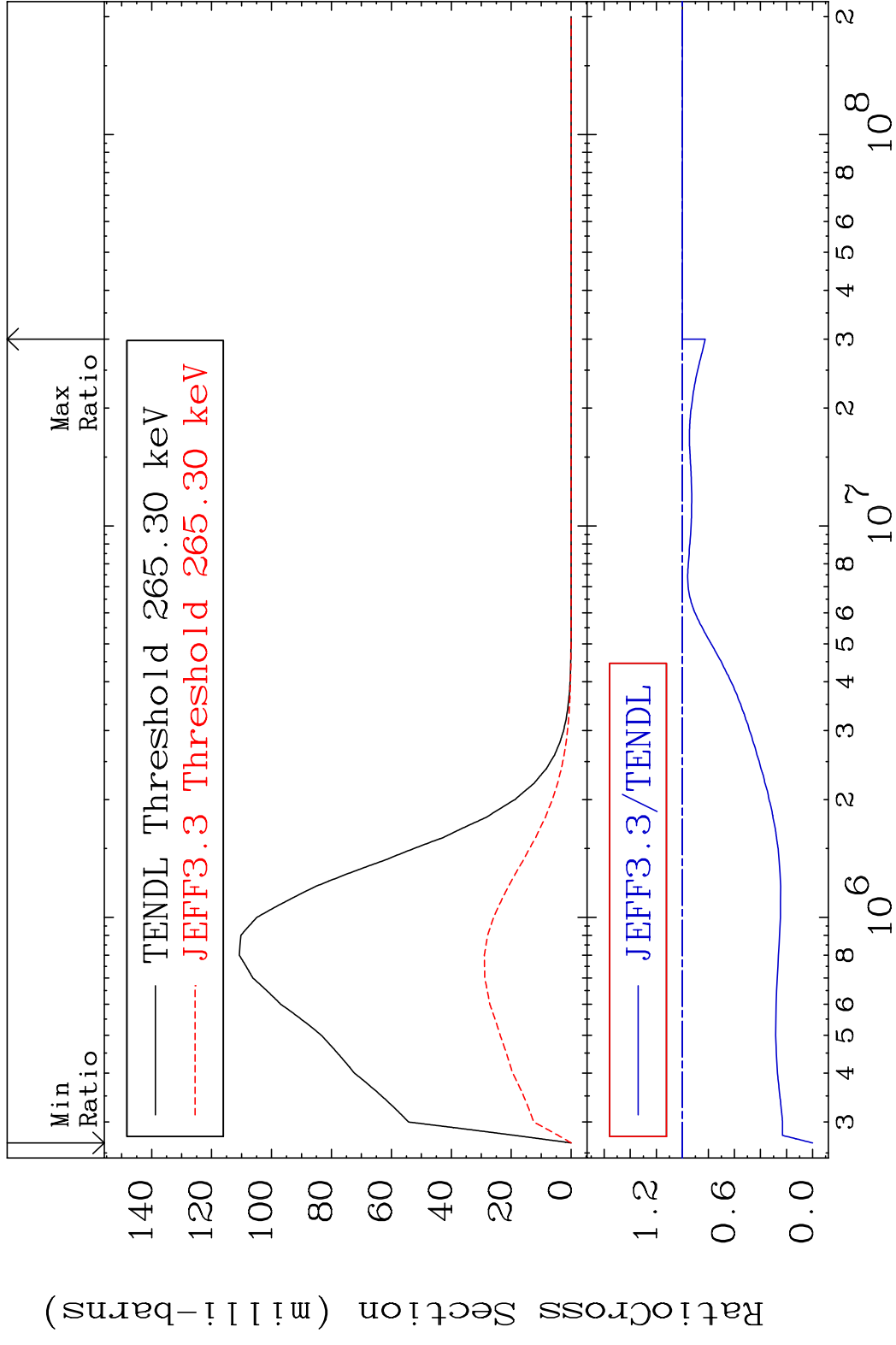
MAT 6153 MT= 64 (n, n') Level 61-Pm-148m
 Cross Section -26.68 To 16.47 %



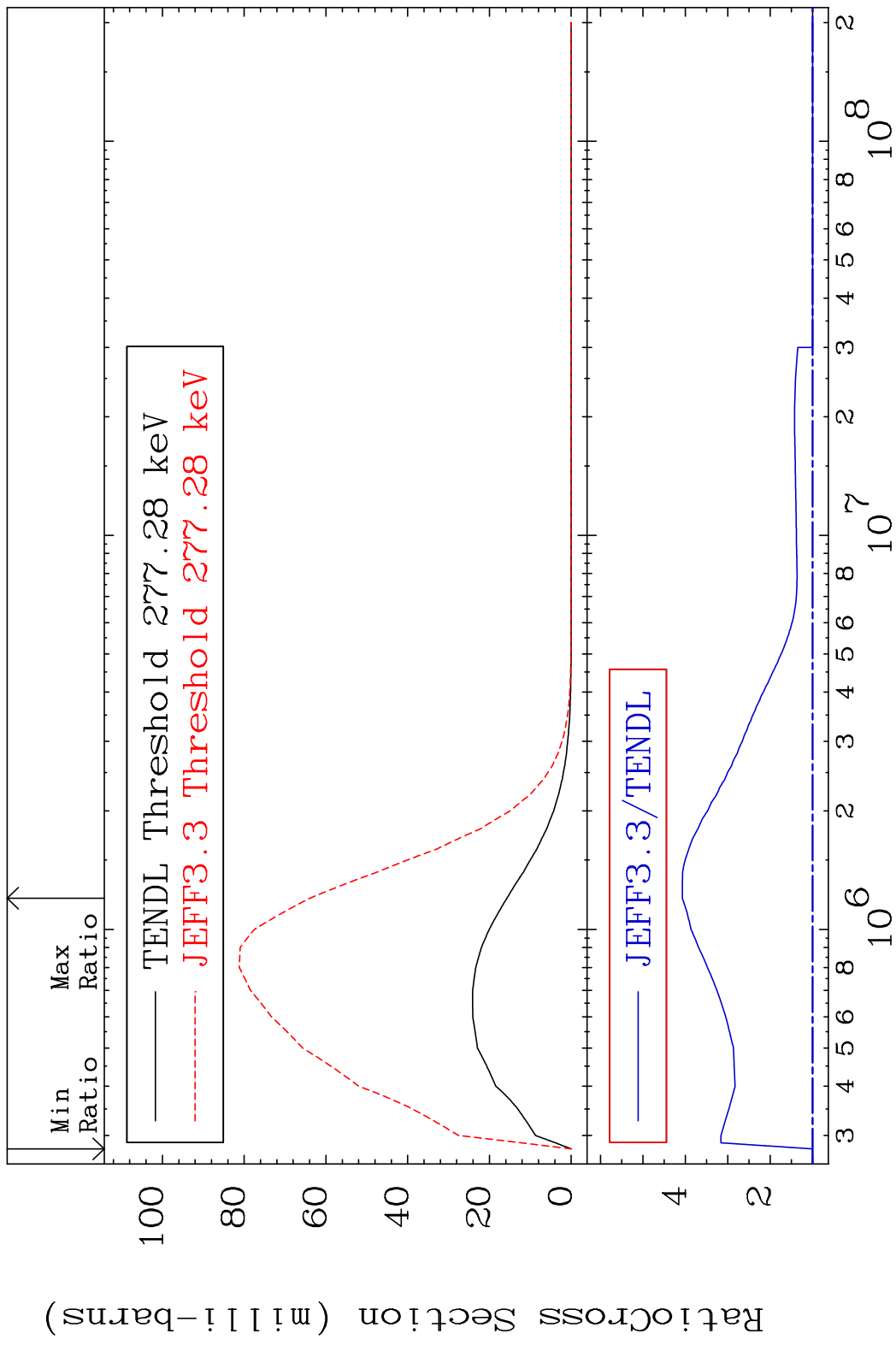
MAT 6153 MT= 65 (n,n') Level 61-Pm-148m
 Cross Section -31.48 To 0.000 %



MAT 6153 MT= 66 (n,n') Level 61-Pm-148m
 Cross Section -100.0 To 0.000 %

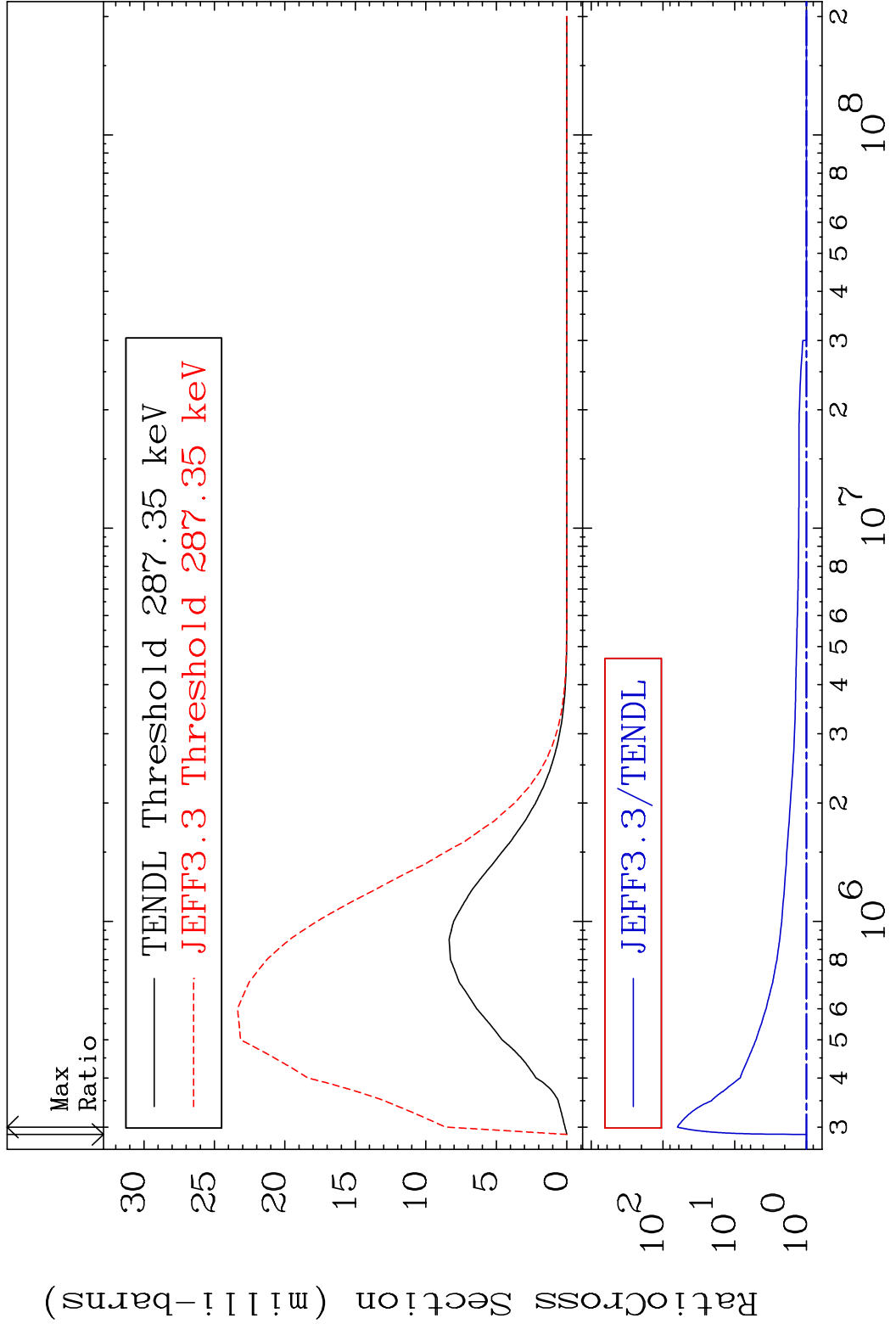


MAT 6153 MT= 67 (n, n') Level 61-Pm-148m
 Cross Section 0.000 To 306.9 %

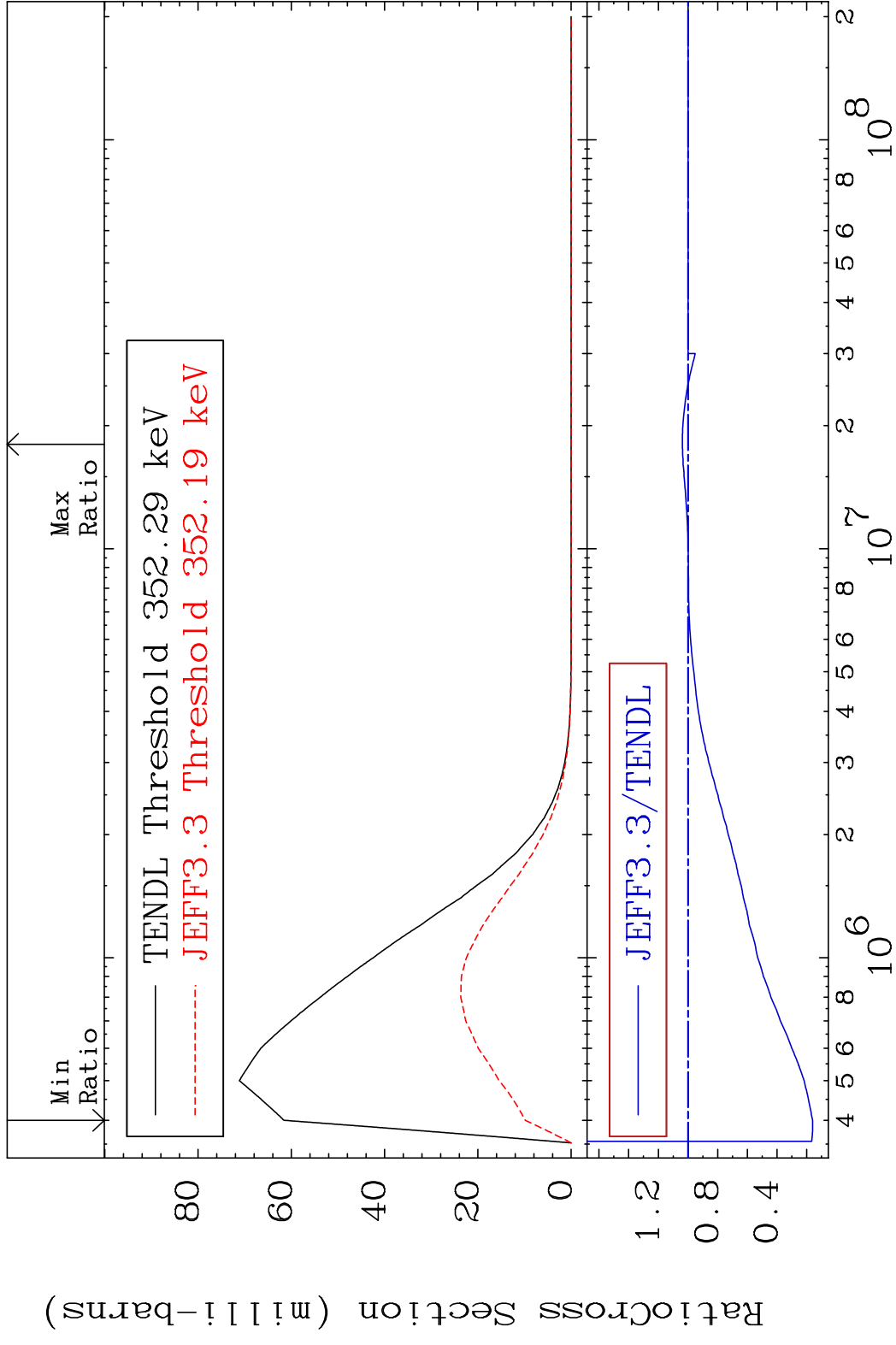


37 Incident Energy (eV) 61-Pm-148m

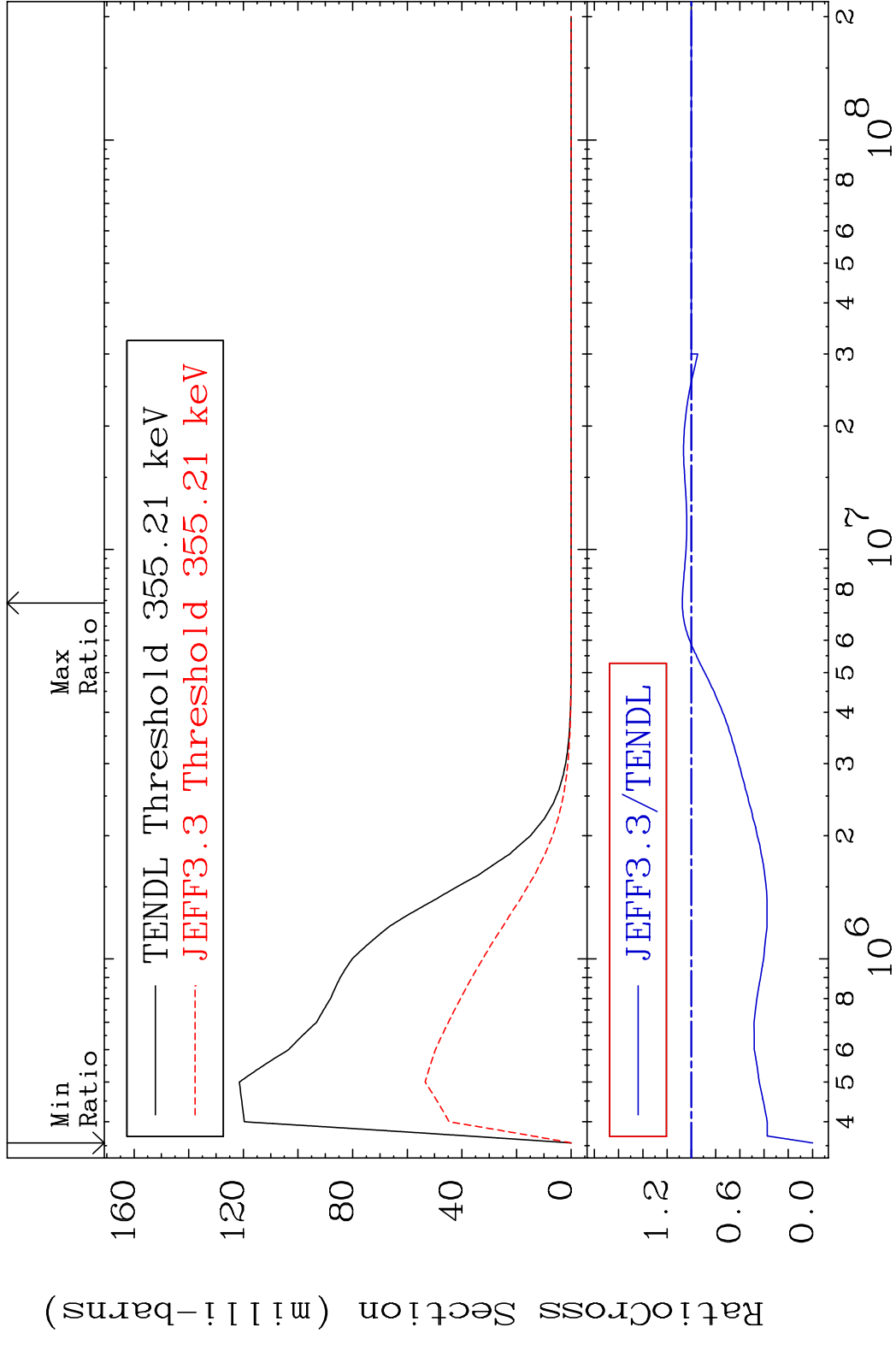
MAT 6153 MT= 68 (n,n') Level 61-Pm-148m
 Cross Section 0.000 To 6232. %



MAT 6153 MT= 69 (n, n') Level 61-Pm-148m
 Cross Section -84.03 To 3.796 %

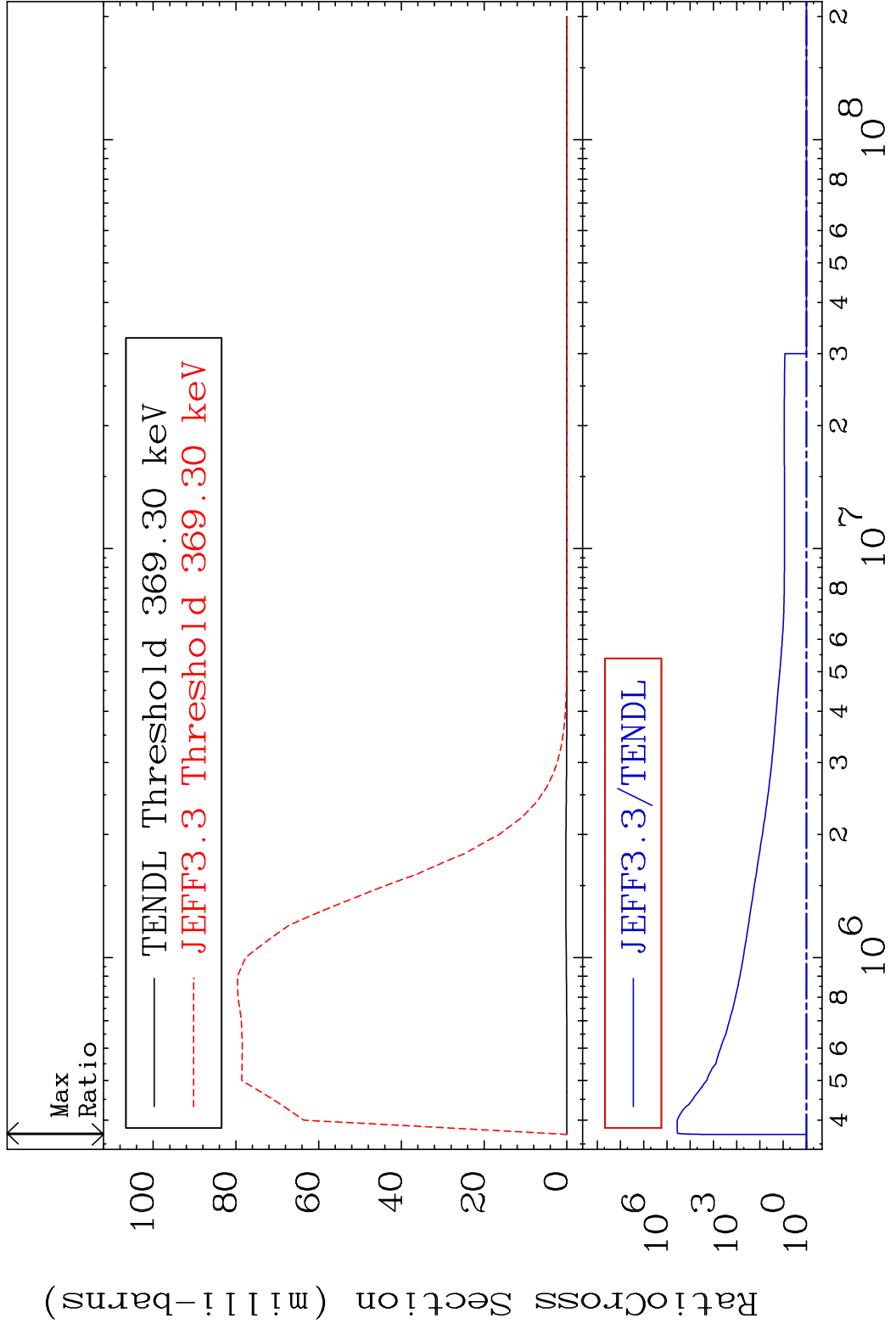


MAT 6153 MT= 70 (n, n') Level 61-Pm-148m
 Cross Section -100.0 To 7.407 %

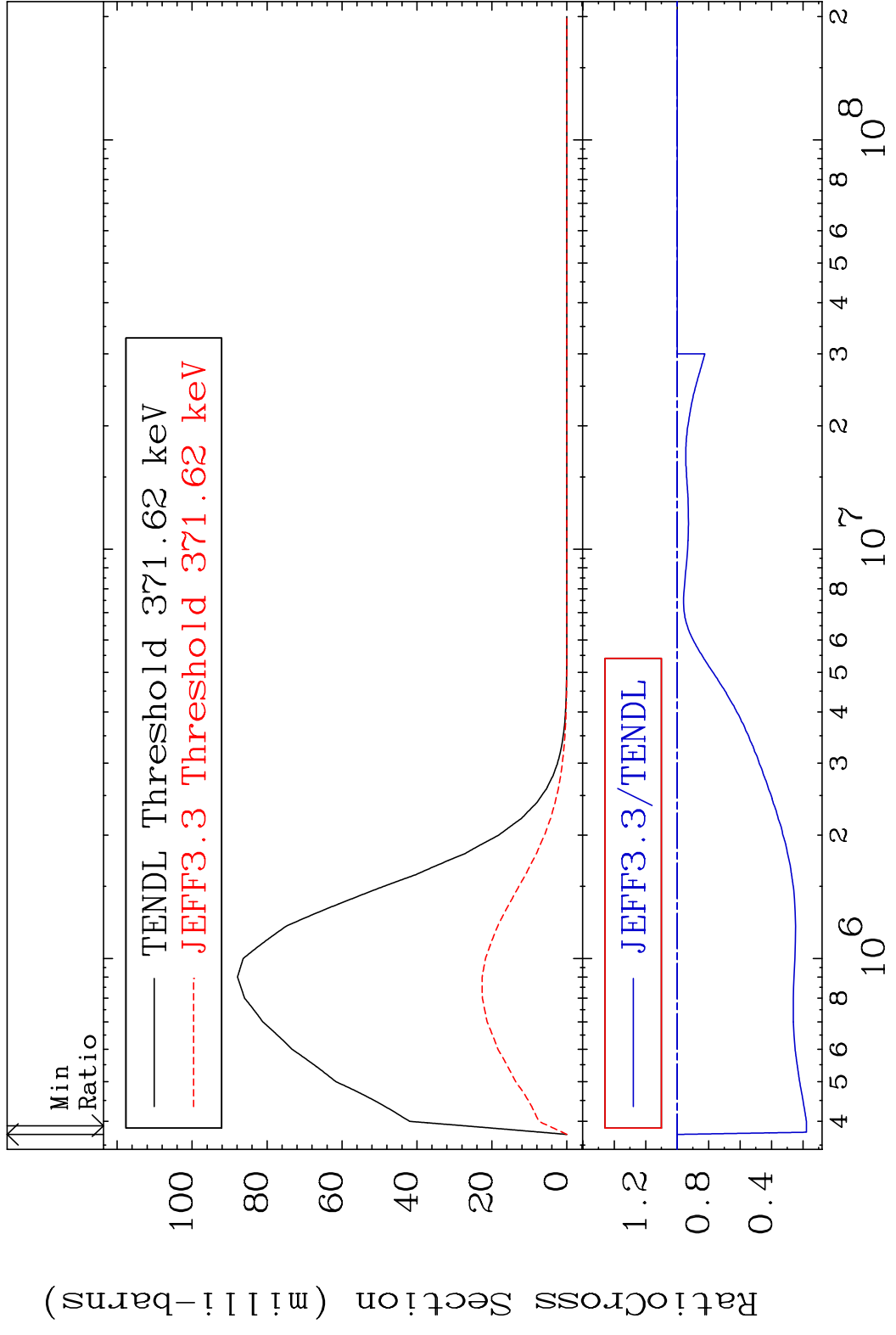


40 Incident Energy (eV) 61-Pm-148m

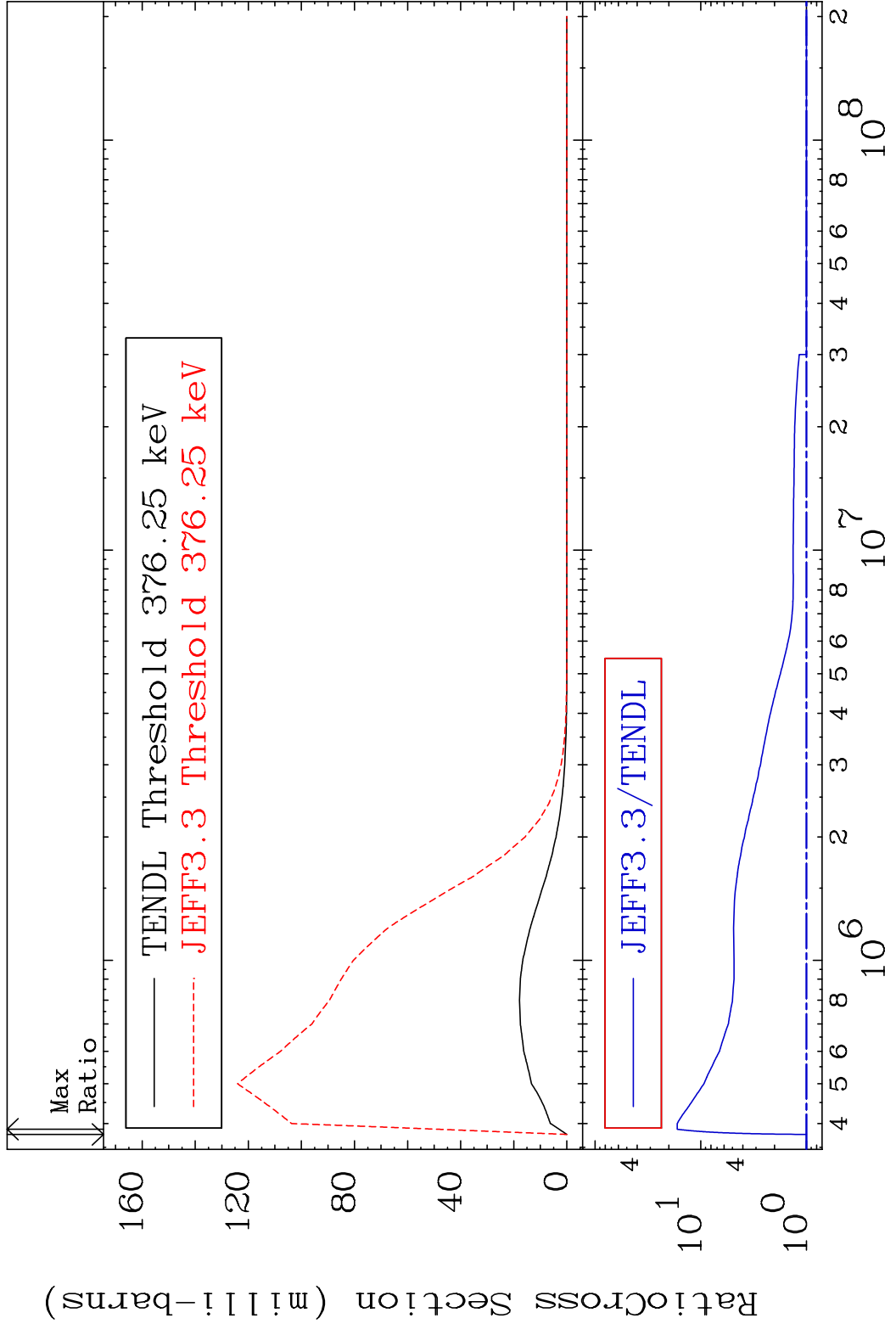
MAT 6153 MT= 71 (n, n') Level 61-Pm-148m
 Cross Section 0.000 To 9999. %



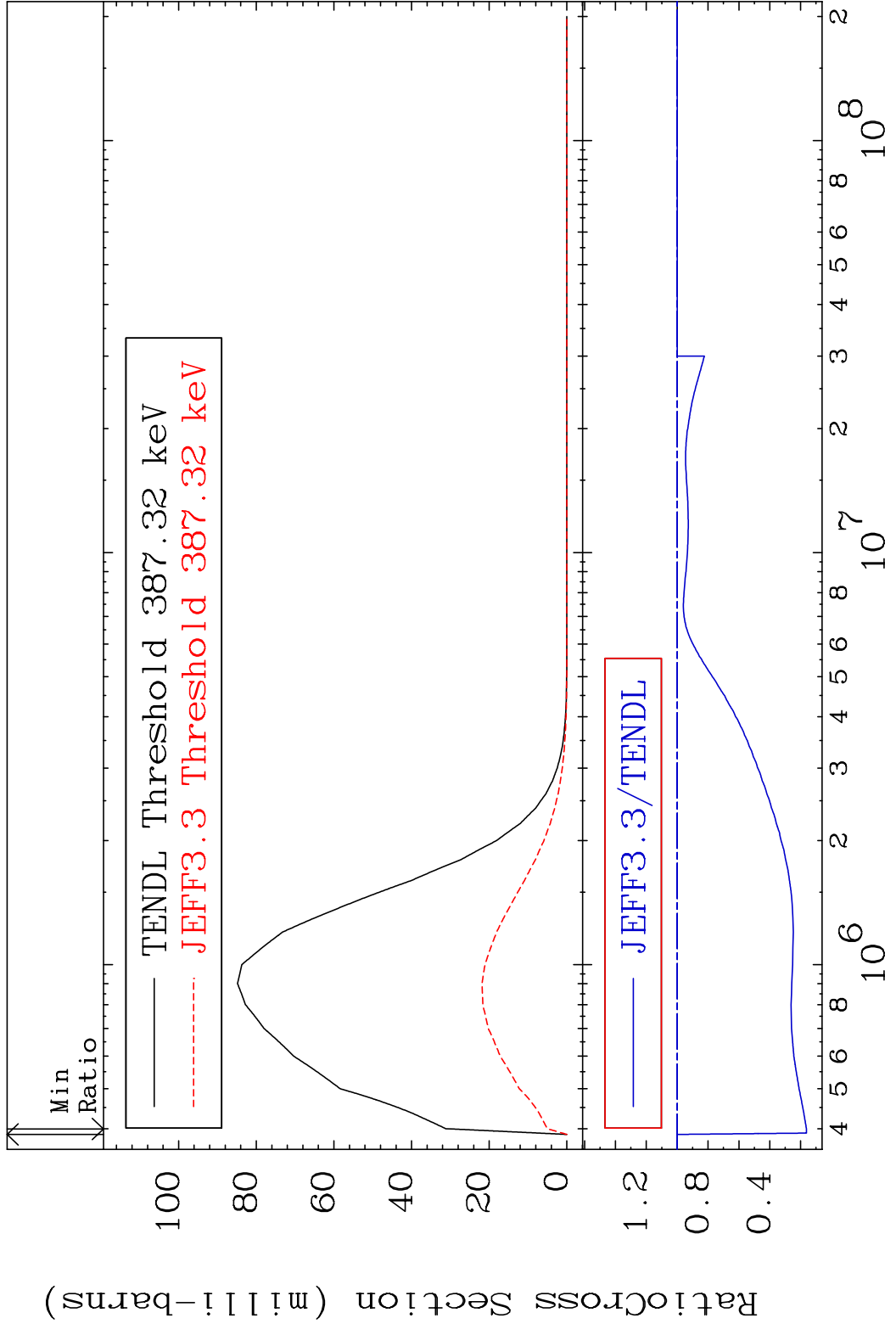
MAT 6153 MT= 72 (n, n') Level 61-Pm-148m
 Cross Section -82.13 To 0.000 %



MAT 6153 MT= 73 (n, n') Level 61-Pm-148m
 Cross Section 0.000 To 1570. %

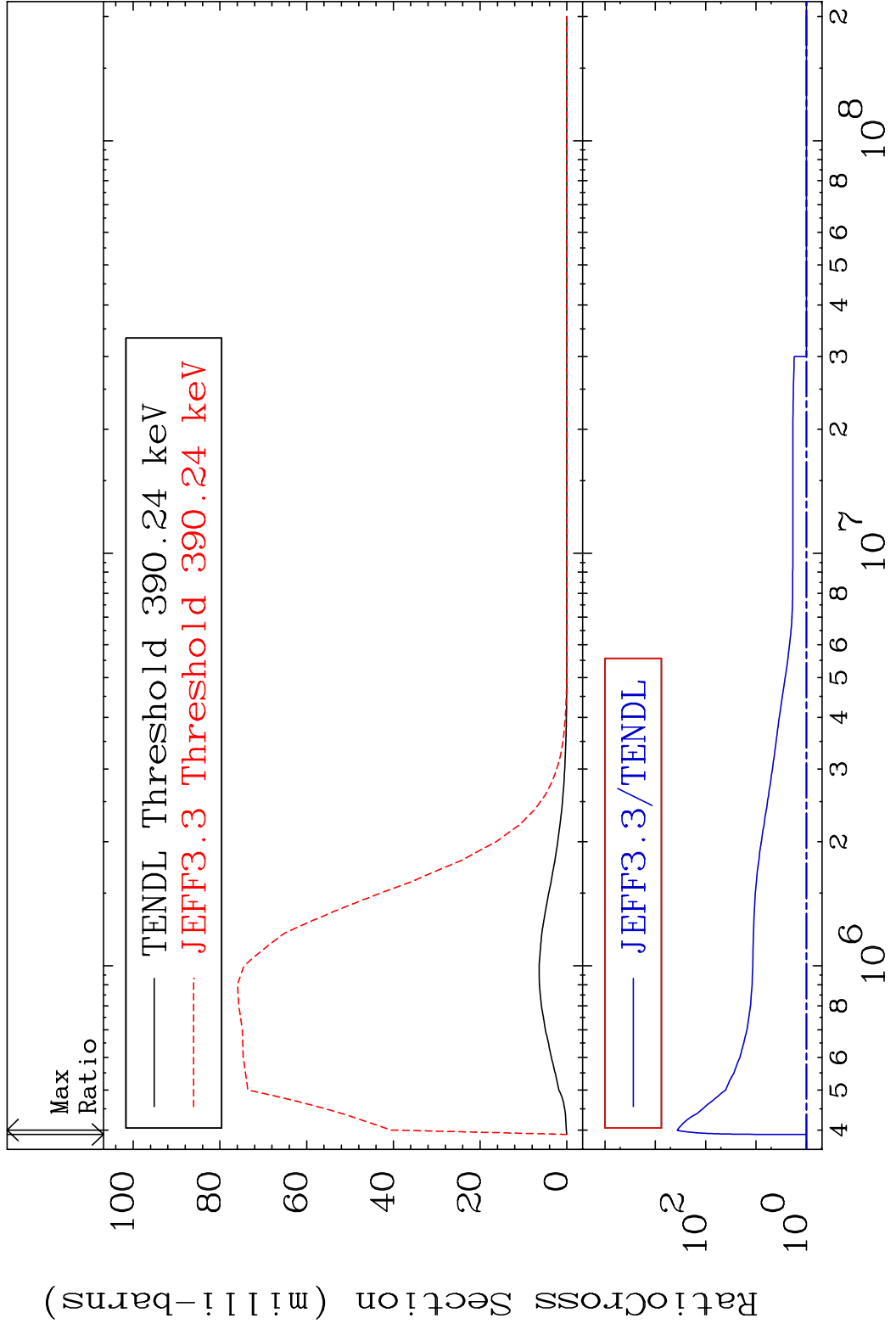


MAT 6153 MT= 74 (n,n') Level 61-Pm-148m
 Cross Section -83.74 To 0.000 %



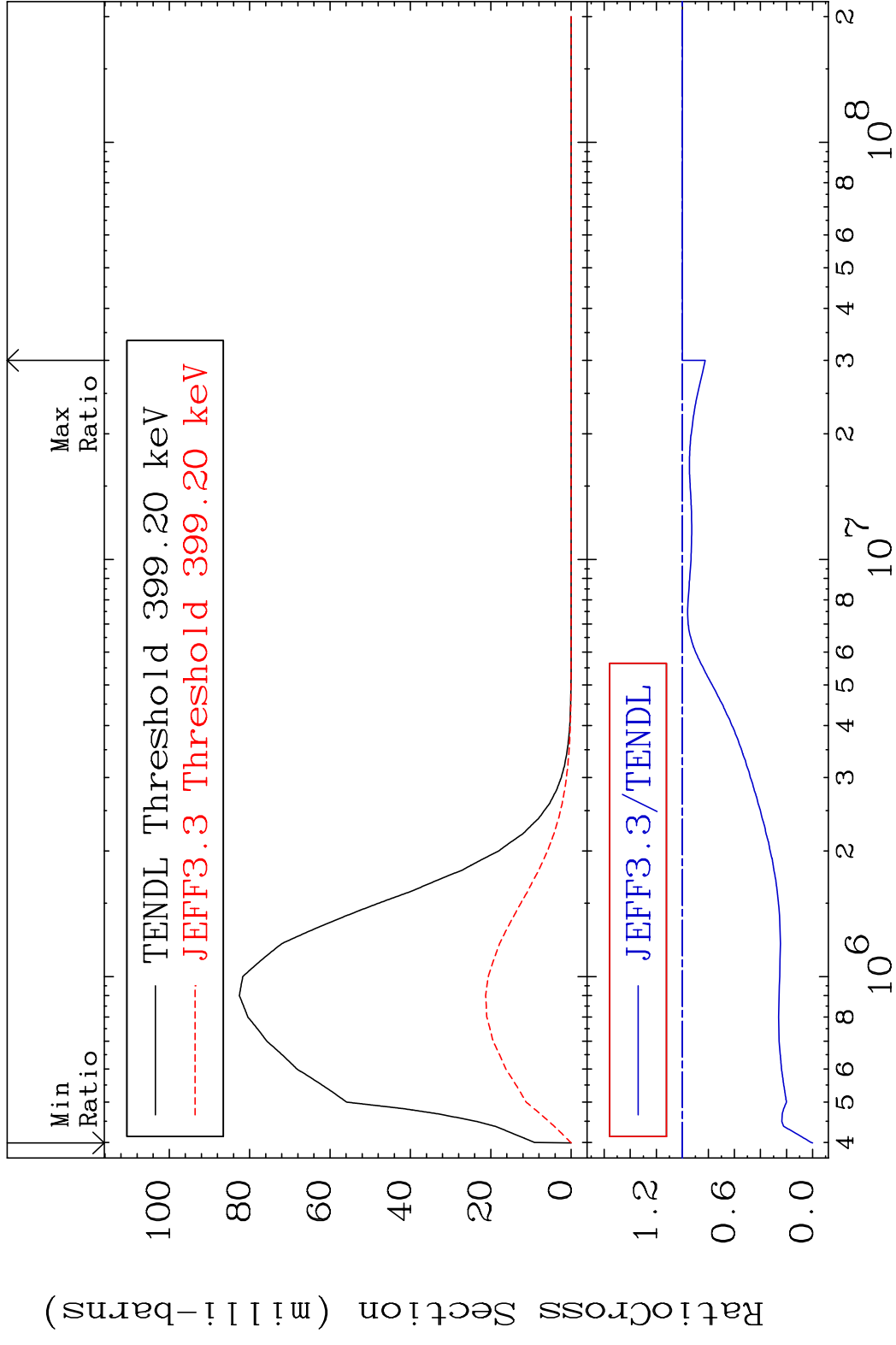
44 Incident Energy (eV) 61-Pm-148m

MAT 6153 MT= 75 (n,n') Level 61-Pm-148m
 Cross Section 0.000 To 9999. %

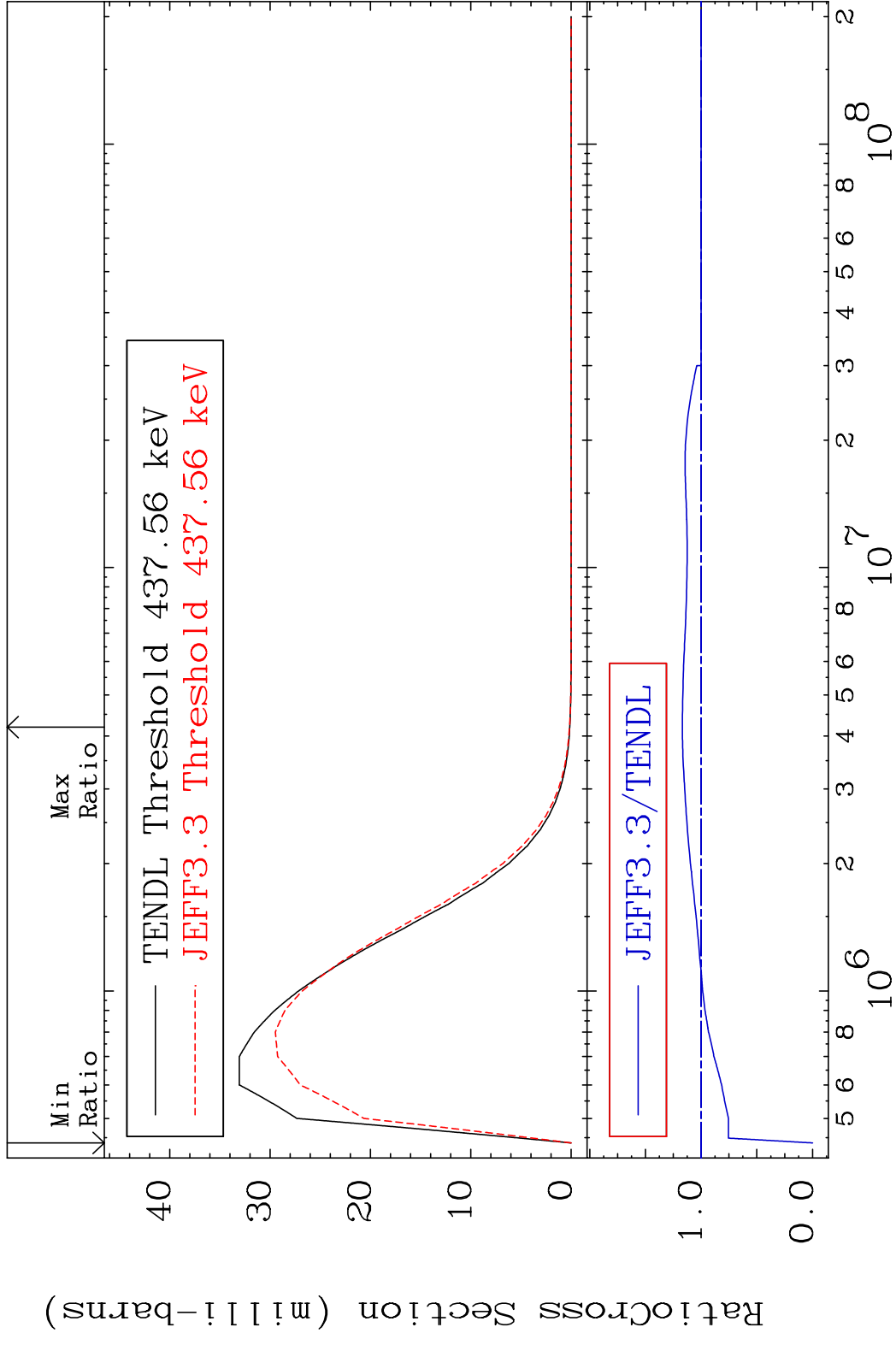


45 Incident Energy (eV) 61-Pm-148m

MAT 6153 MT= 76 (n,n') Level 61-Pm-148m
 Cross Section -100.0 To 0.000 %

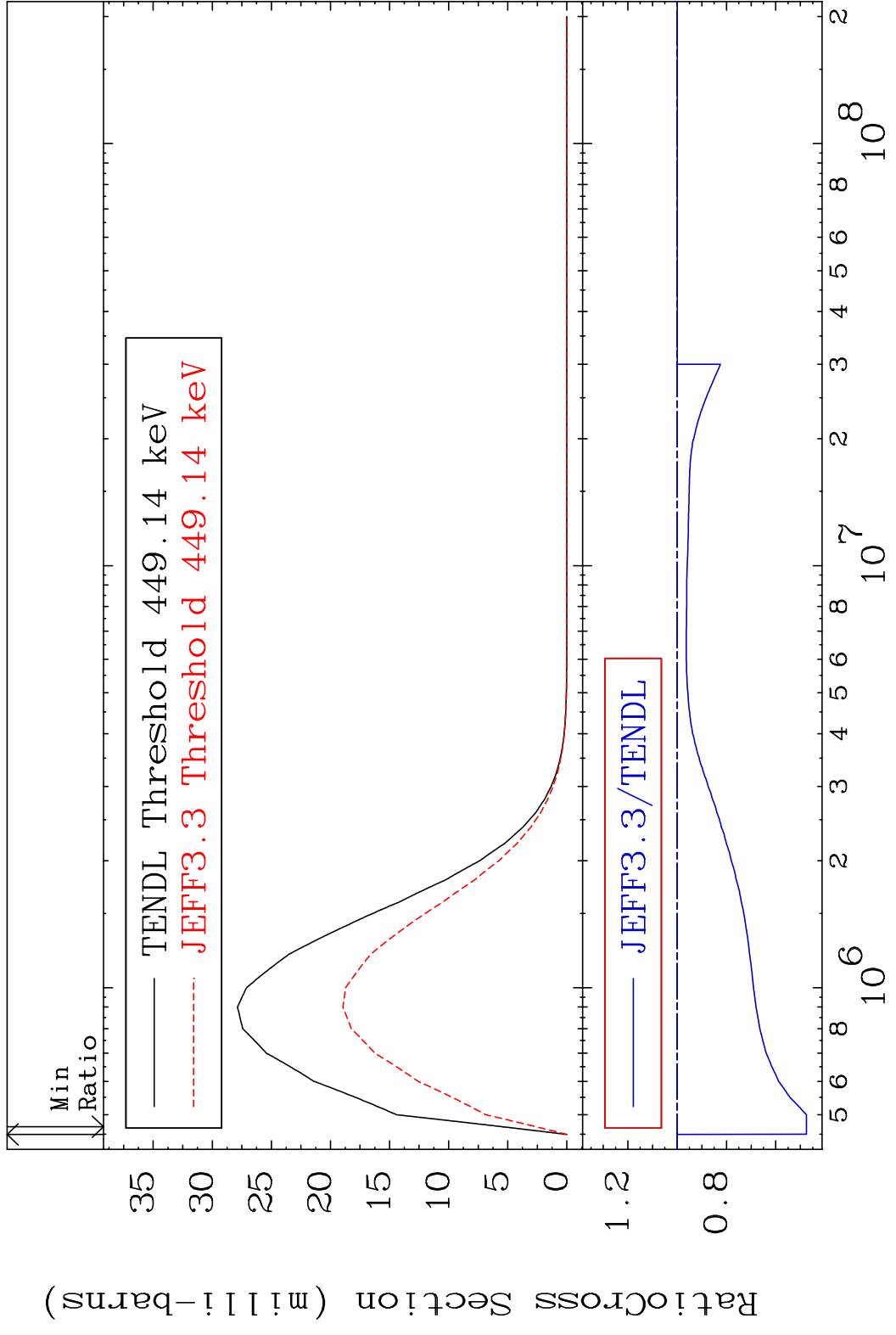


MAT 6153 MT= 77 (n,n') Level 61-Pm-148m
 Cross Section -100.0 To 16.84 %



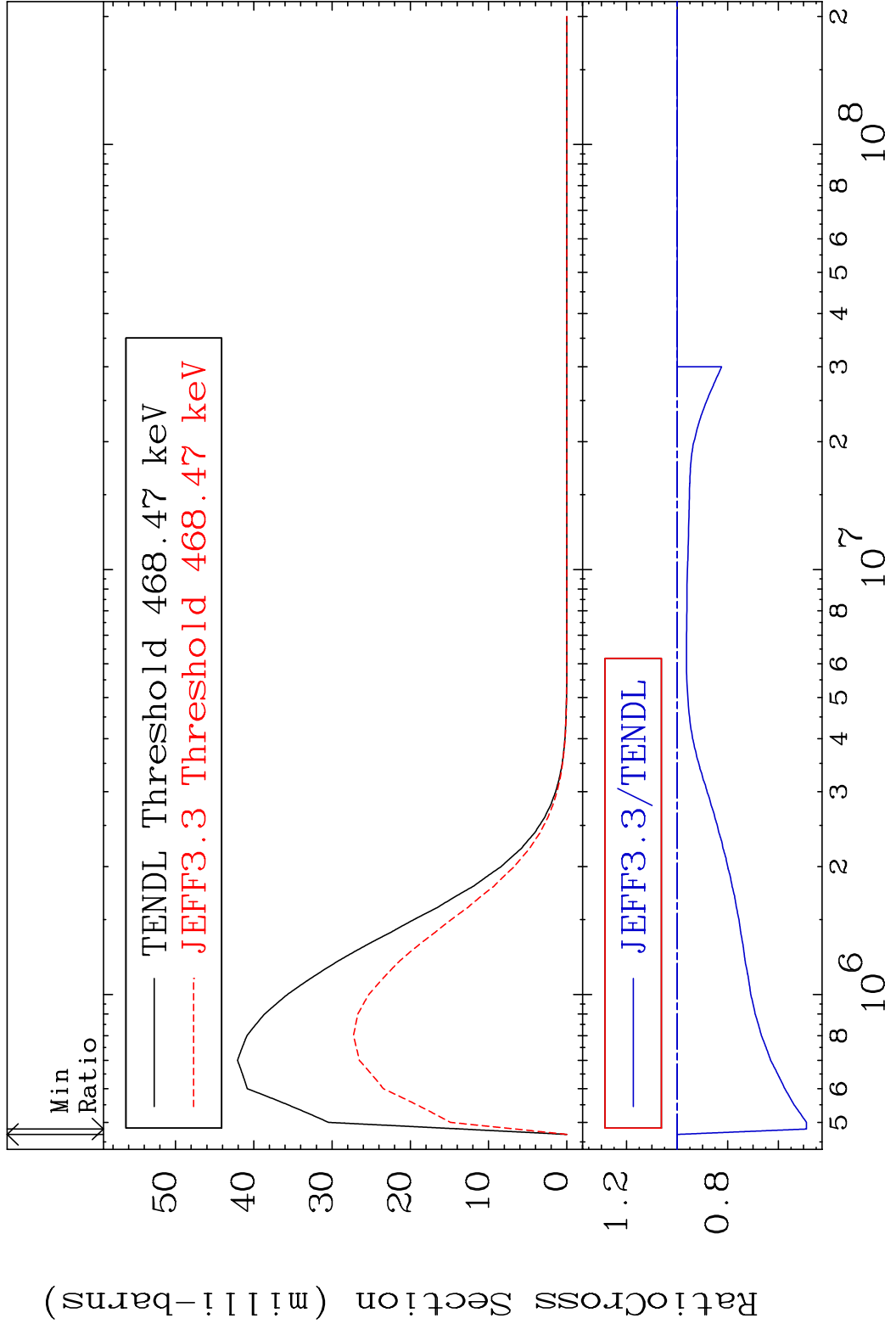
47 61-Pm-148m

MAT 6153 MT= 78 (n, n') Level 61-Pm-148m
 Cross Section -52.43 To 0.000 %

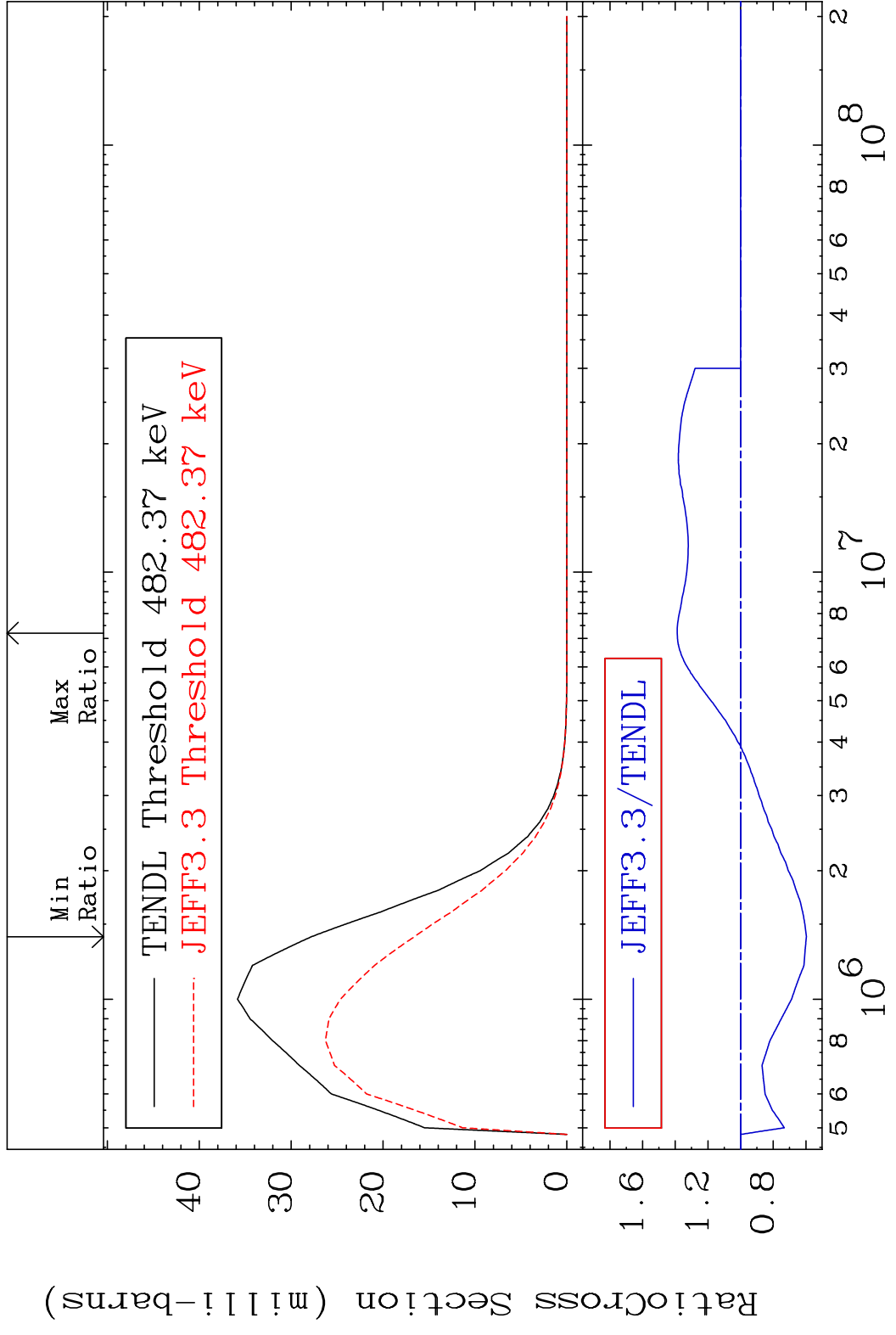


48 Incident Energy (eV) 61-Pm-148m

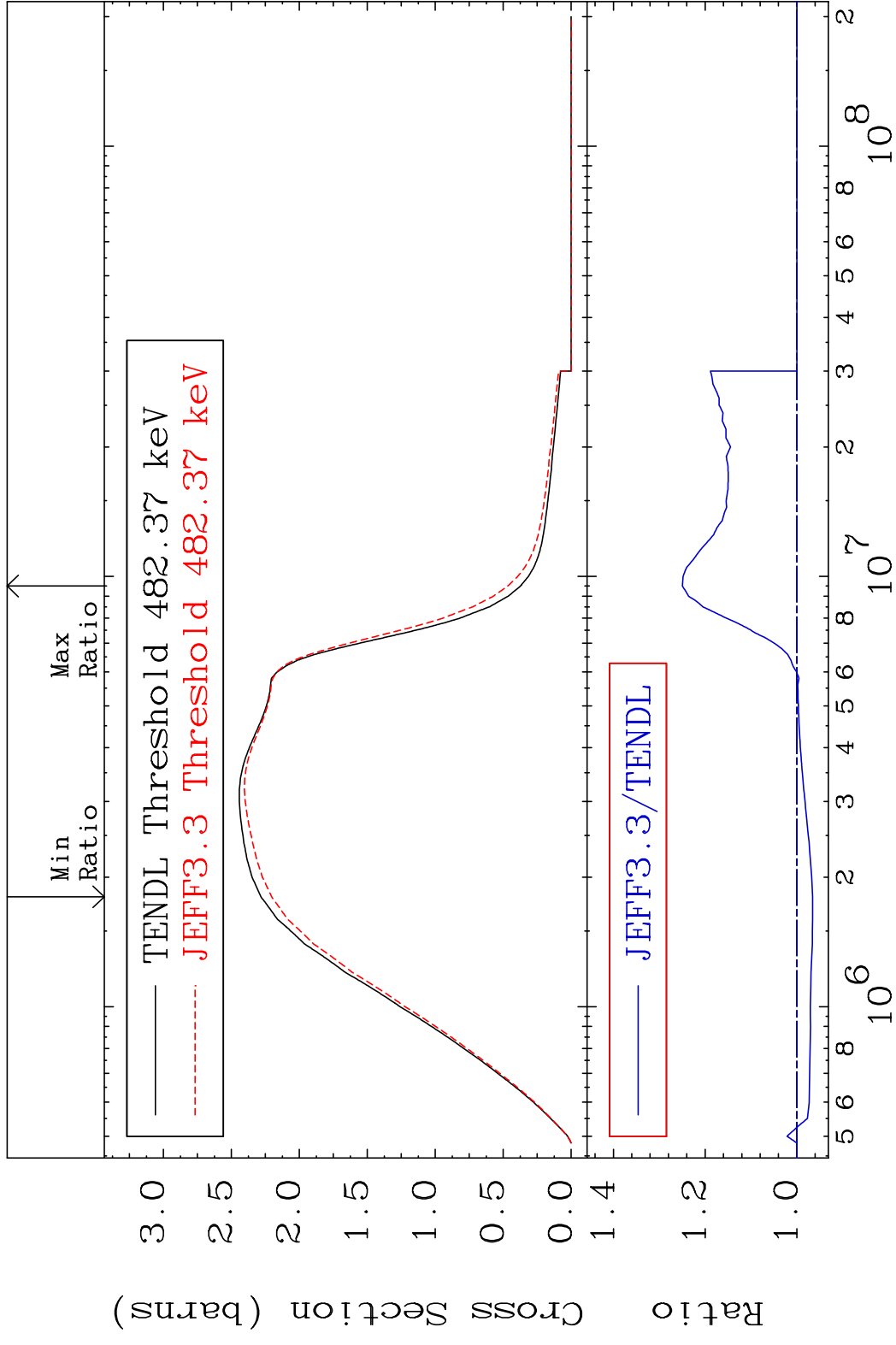
MAT 6153 MT= 79 (n,n') Level 61-Pm-148m
 Cross Section -51.11 To 0.000 %



MAT 6153 MT= 80 (n, n') Level 61-Pm-148m
 Cross Section -40.30 To 38.81 %



MAT 6153 (n, n') Continuum 61-Pm-148m
 Cross Section -3.432 To 24.97 %

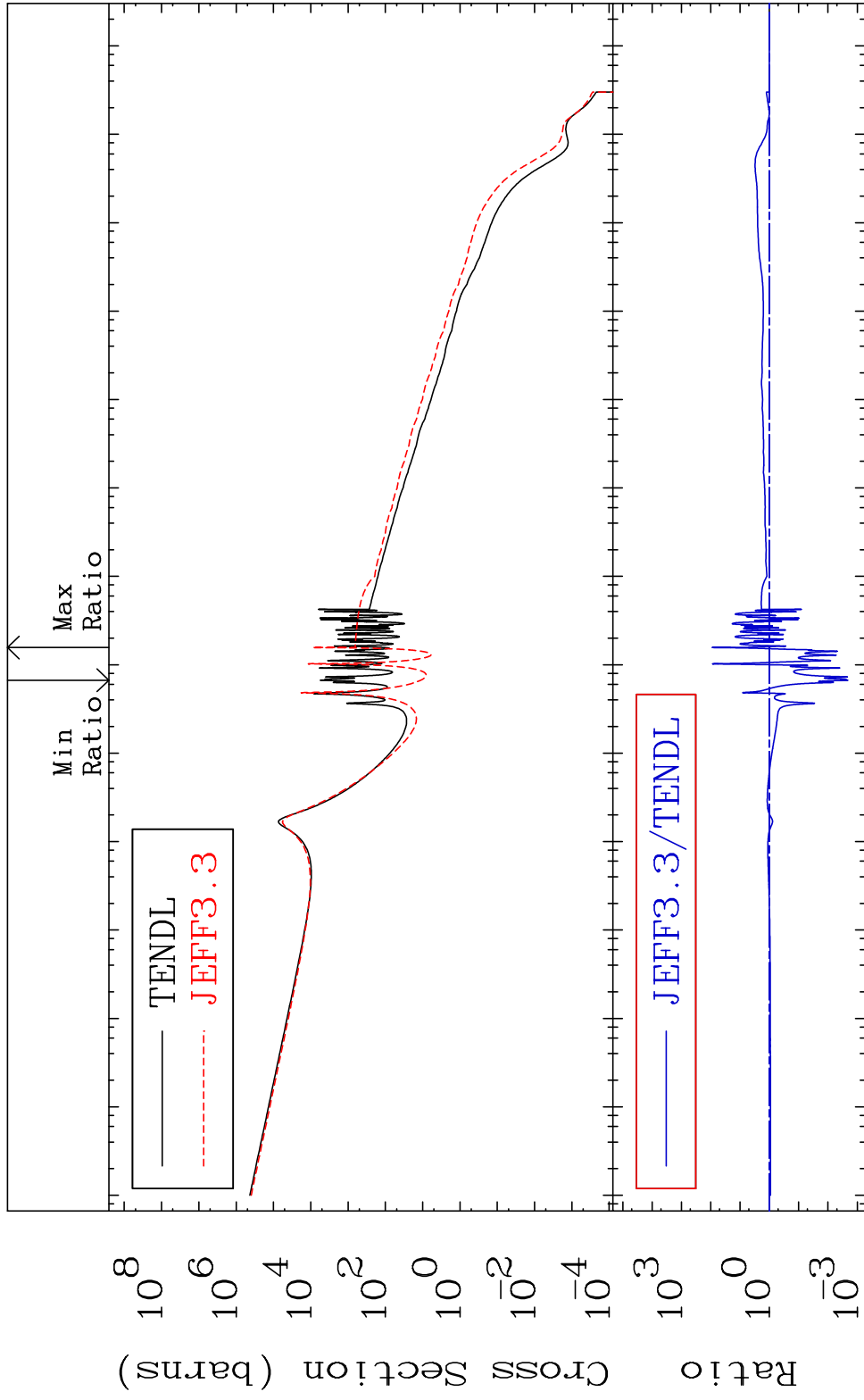


MAT 6153

61-Pm-148m

(n, γ)

Cross Section -99.80 To 8702. %



52

Incident Energy (eV)

61-Pm-148m

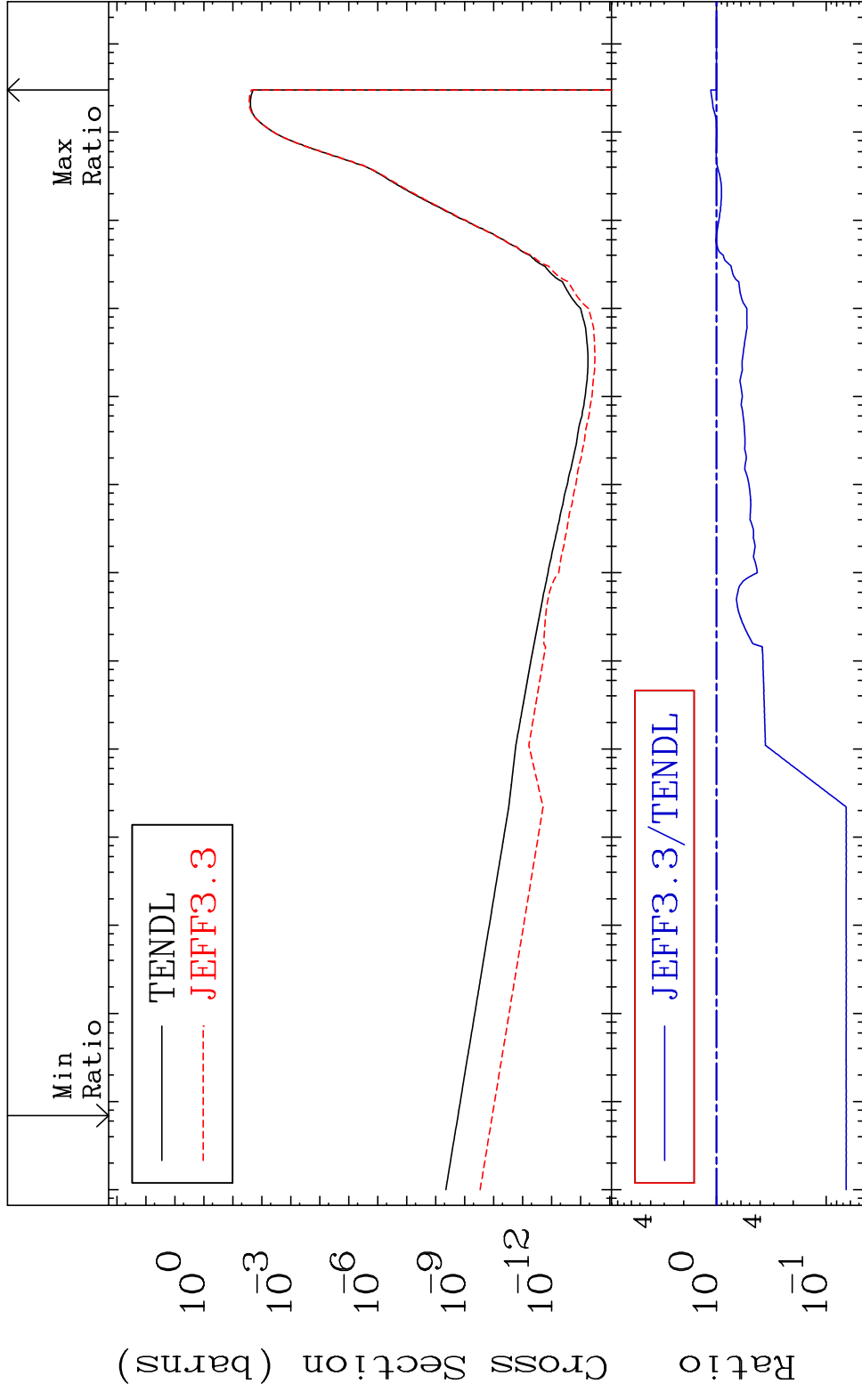
MAT 6153

(n, p)

61-Pm-148m

Cross Section

-93.47 To 13.02 %



53

Incident Energy (eV)

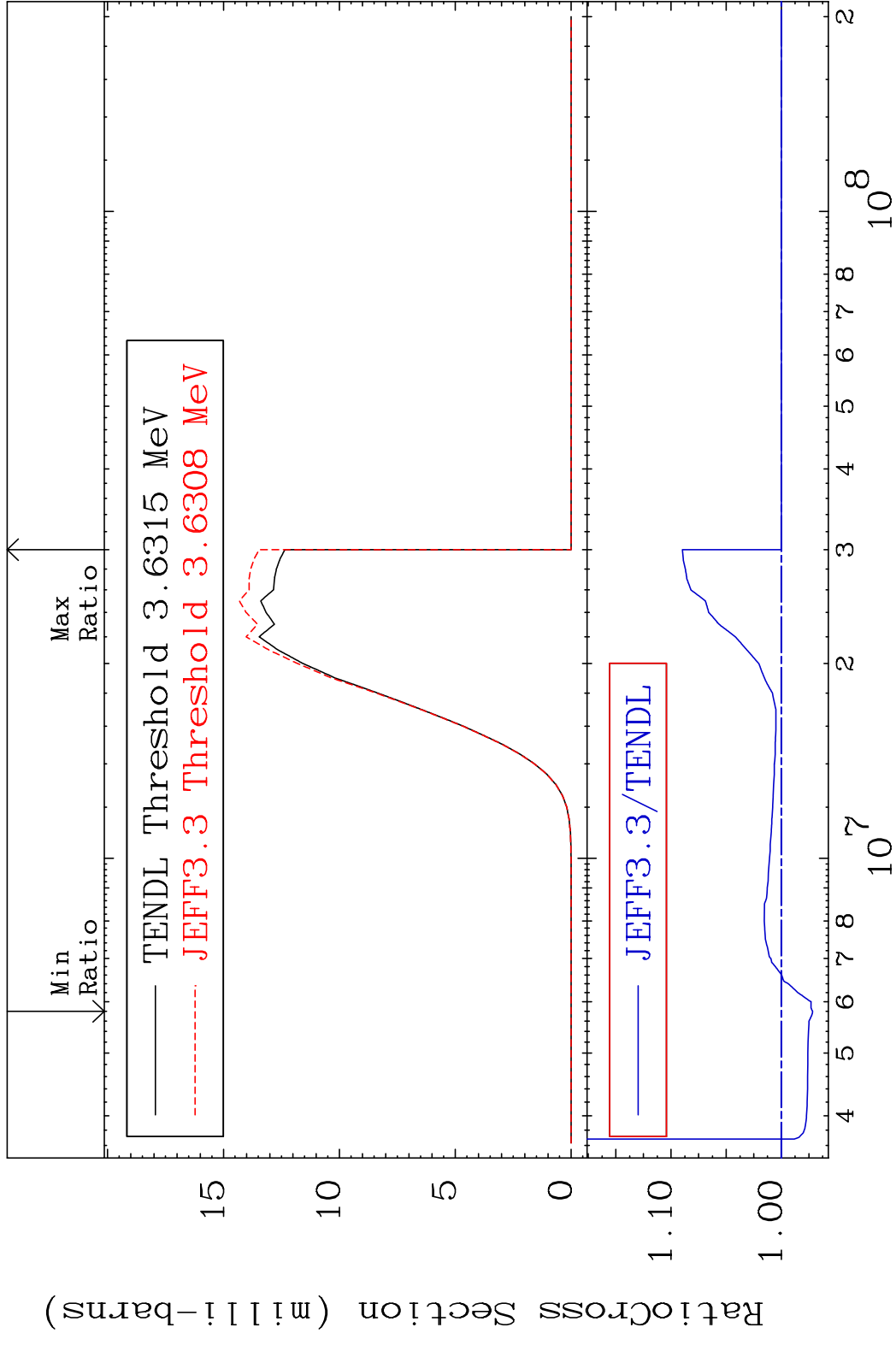
61-Pm-148m

MAT 6153

(n, d)

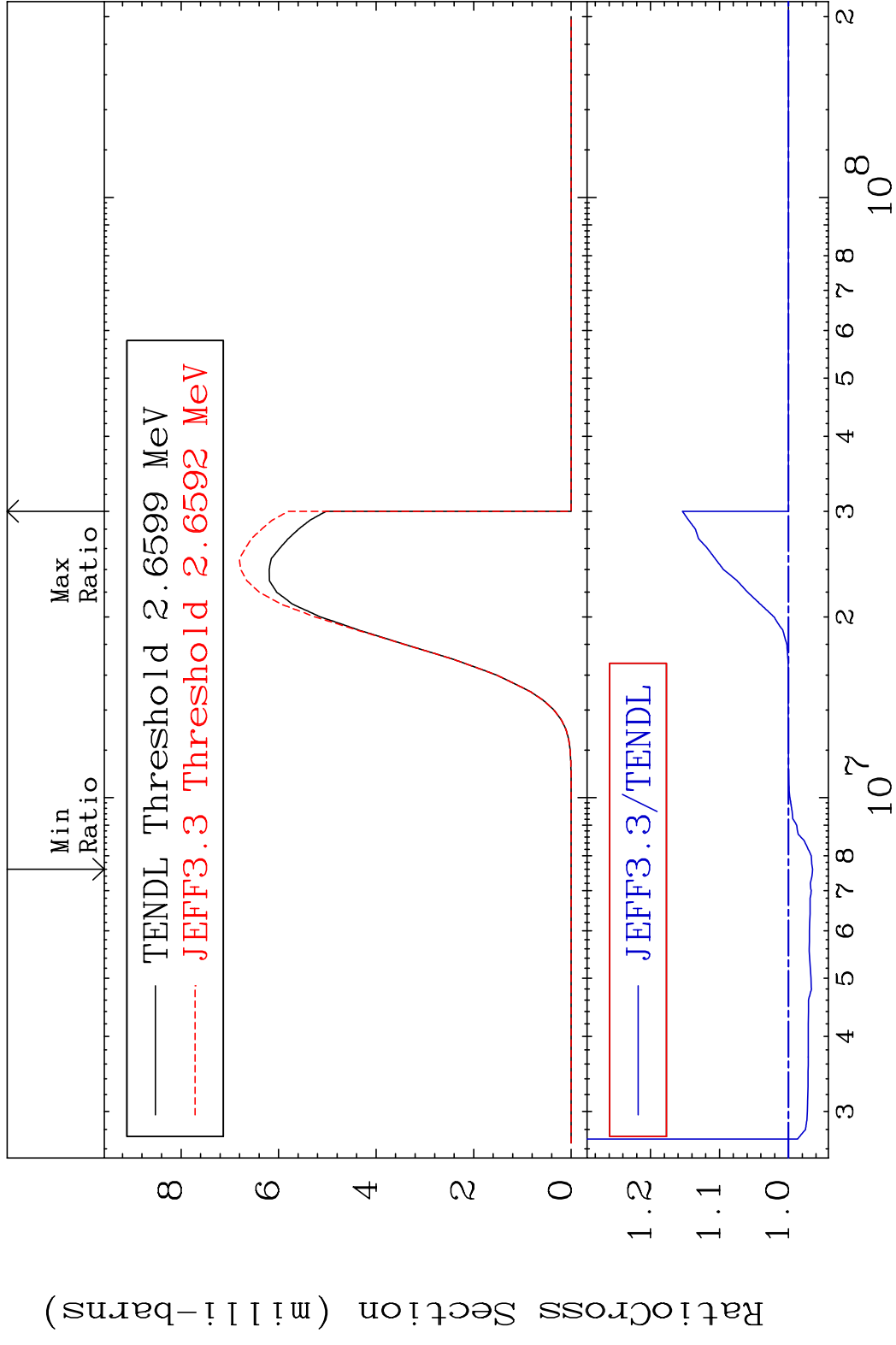
61-Pm-148m

Cross Section -2.828 To 8.972 %

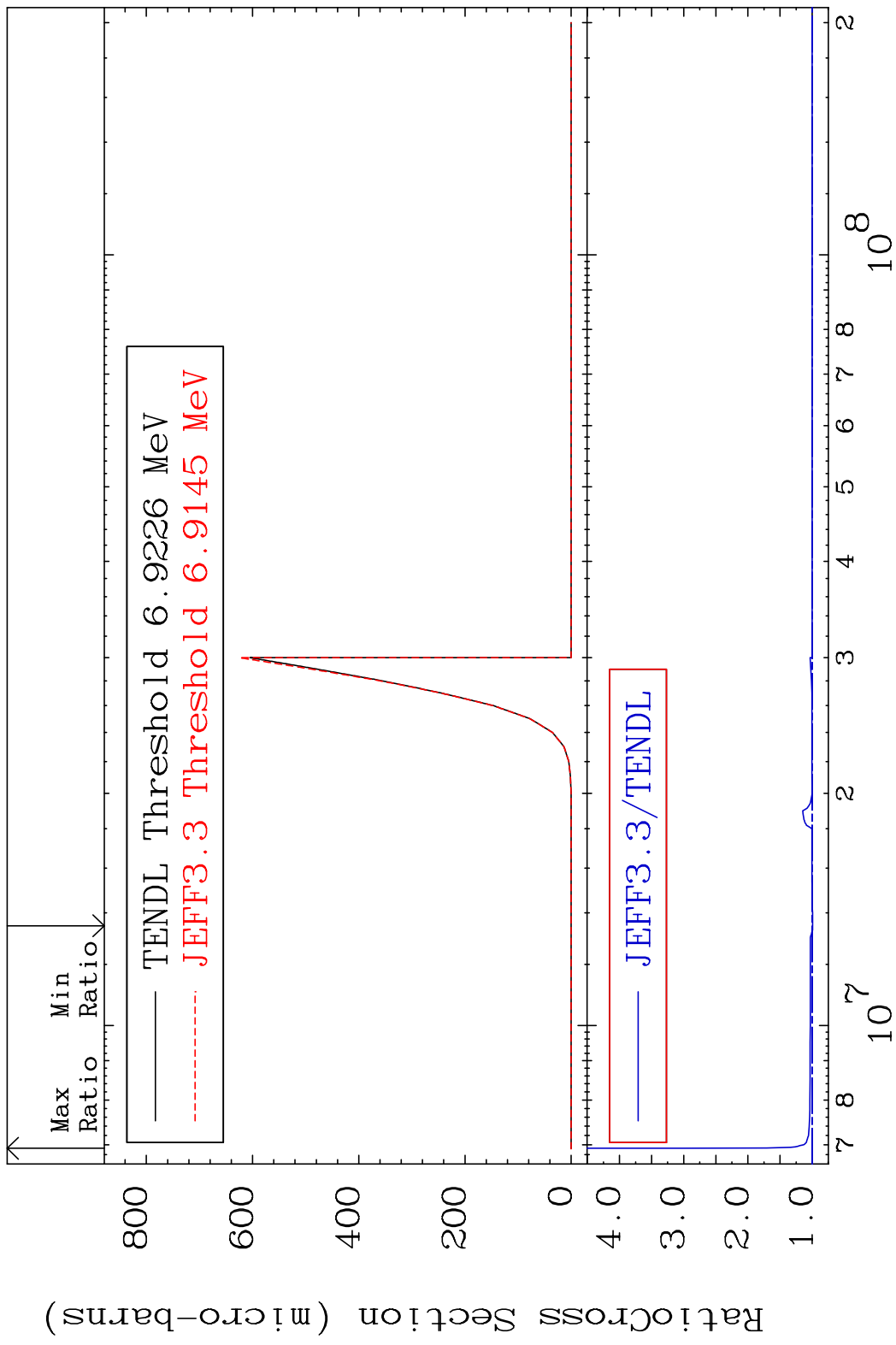


MAT 6153

(n, t) 61-Pm-148m
Cross Section -3.484 To 15.38 %



MAT 6153 (n, He-3) 61-Pm-148m
 Cross Section -0.611 To 202.1 %

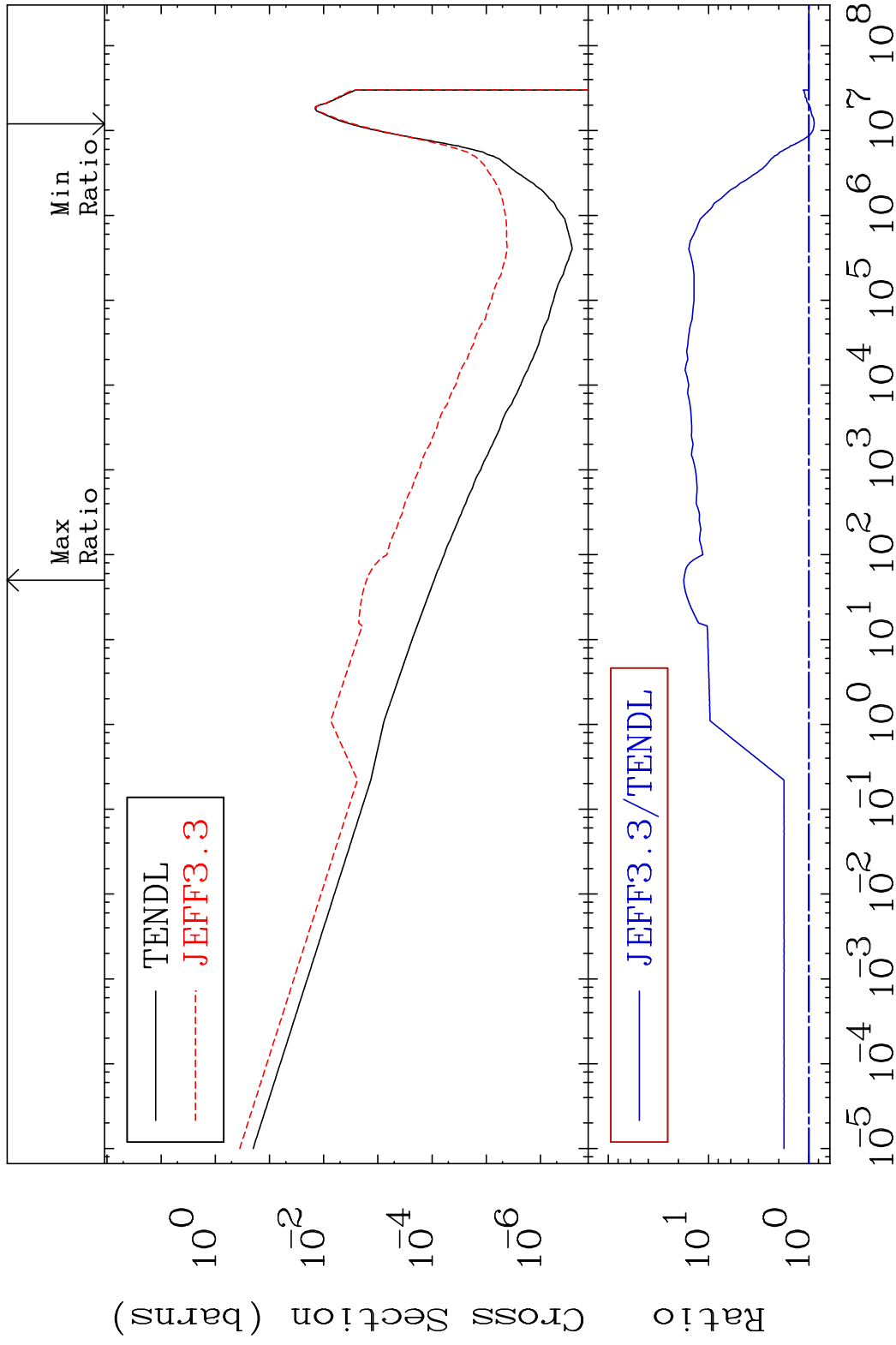


MAT 6153

(n, α)

61-Pm-148m

Cross Section -11.47 To 1673. %



57

Incident Energy (eV)

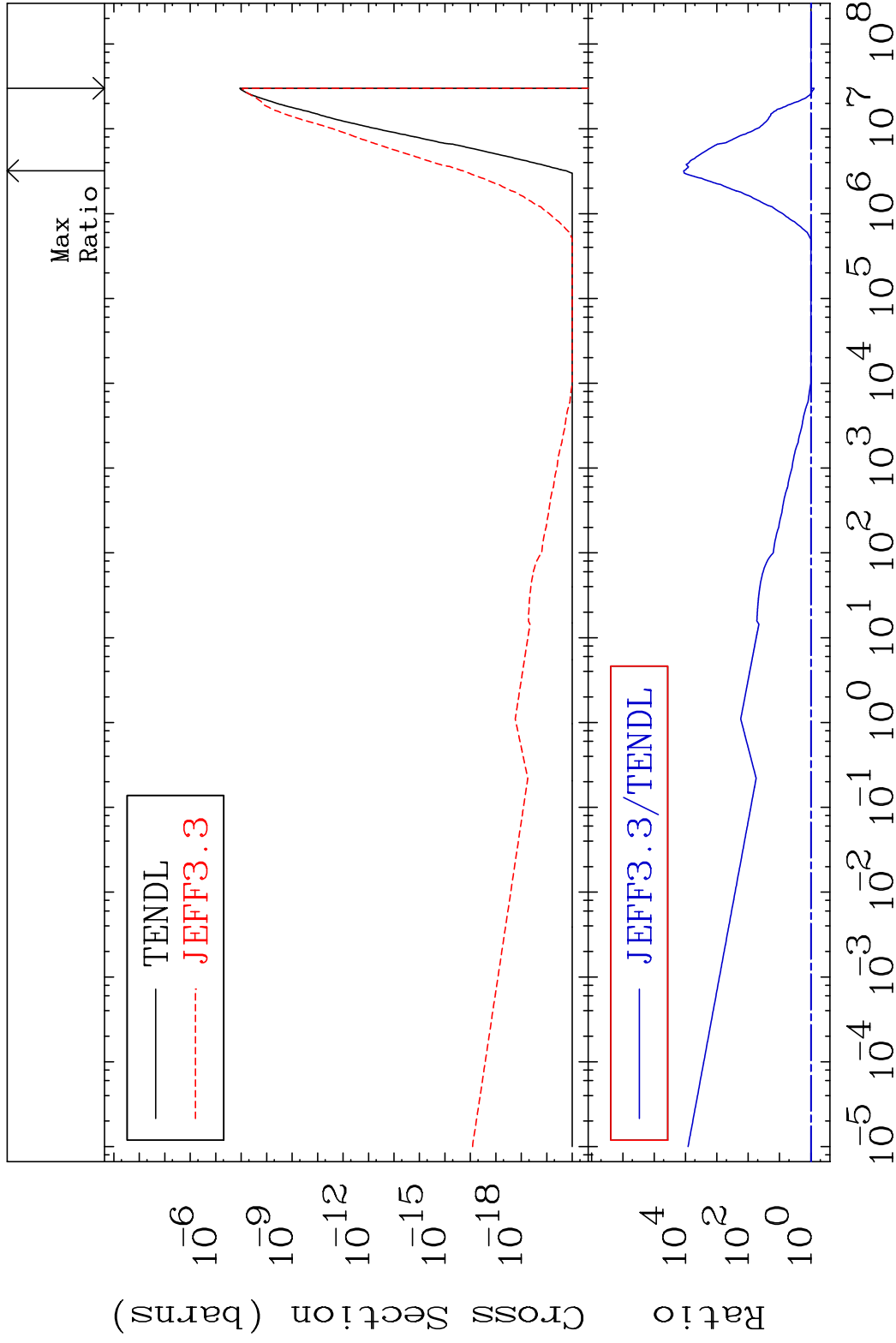
61-Pm-148m

MAT 6153

(n, 2α)

61-Pm-148m

Cross Section -21.19 To 9999. %



58

Incident Energy (eV)

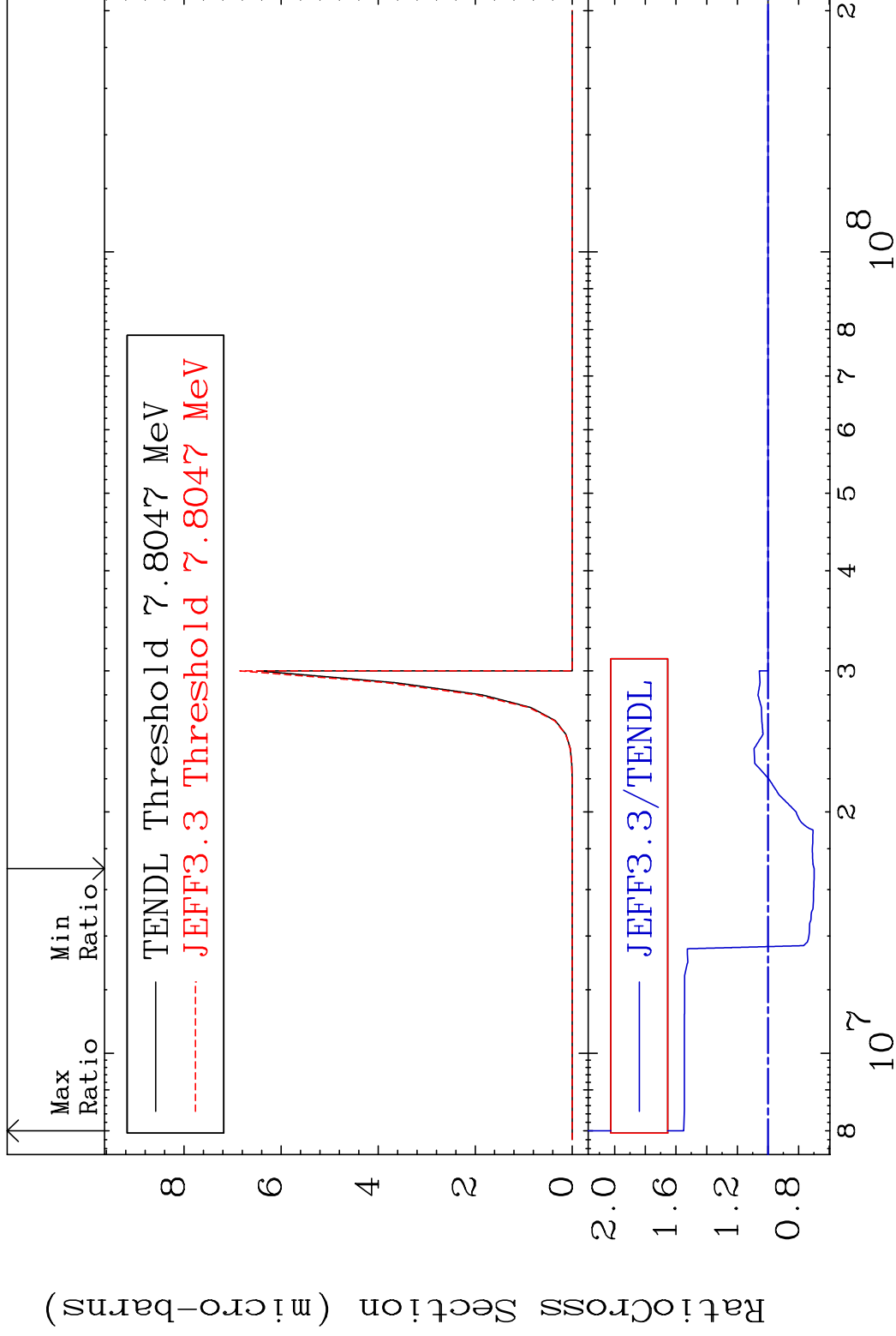
61-Pm-148m

MAT 6153

(n,2p)

61-Pm-148m

Cross Section -30.13 To 55.01 %



59

Incident Energy (eV)

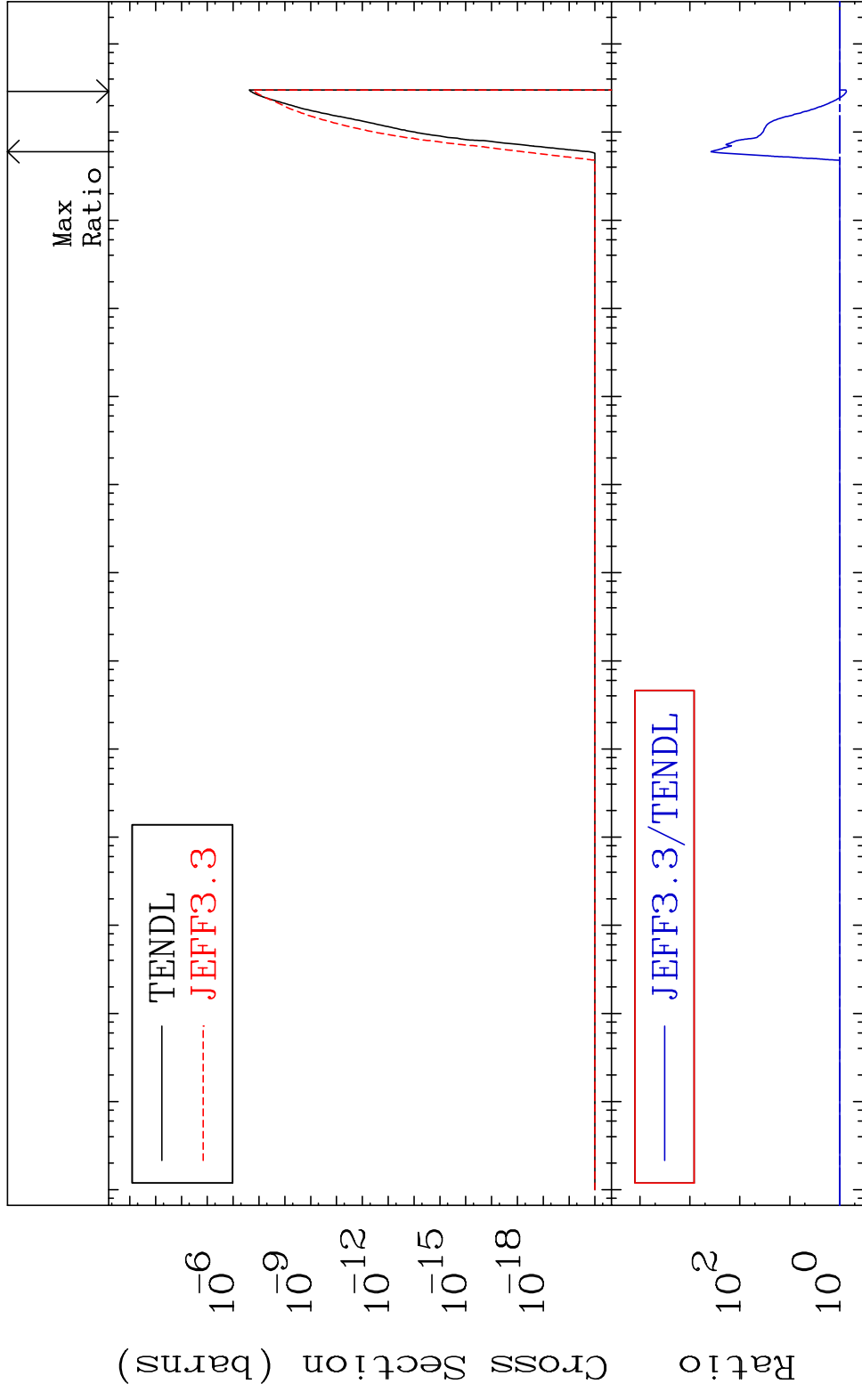
61-Pm-148m

MAT 6153

(n,p) α

61-Pm-148m

Cross Section -26.59 To 9999. %



60

Incident Energy (eV)

61-Pm-148m

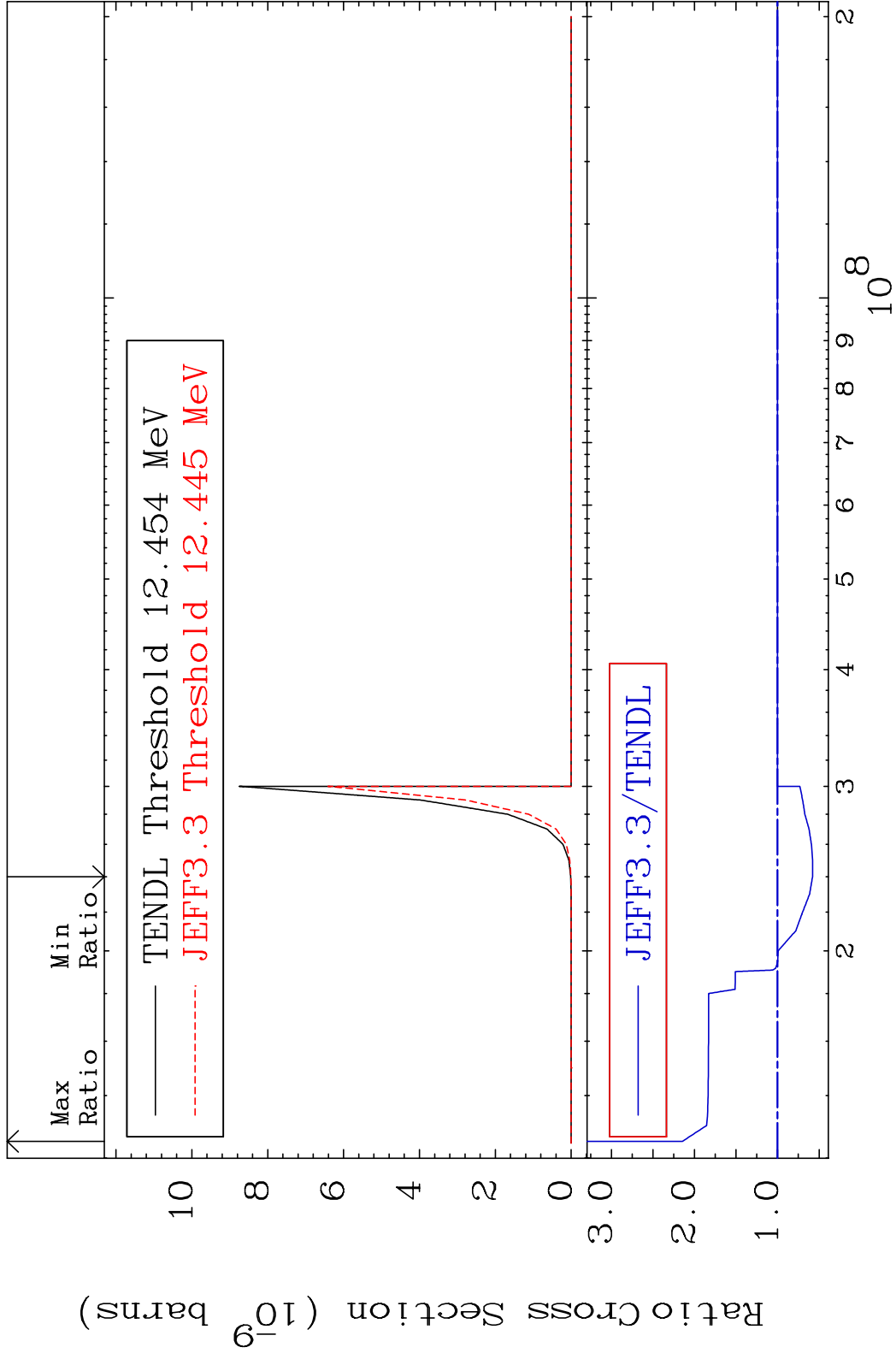
MAT 6153

(n,p) d

61-Pm-148m

Cross Section

-42.11 To 114.6 %

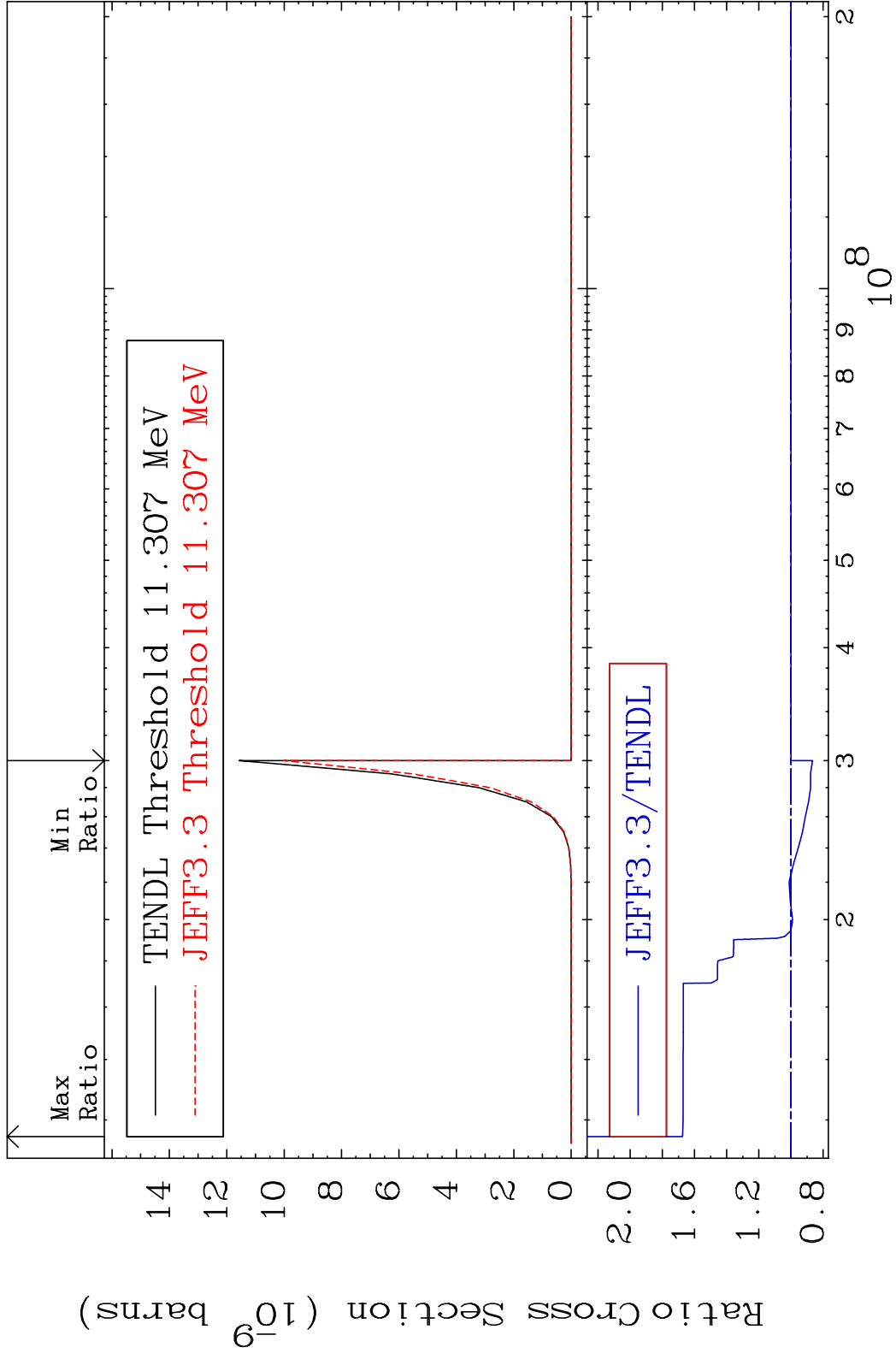


MAT 6153

(n,p) t

61-Pm-148m

Cross Section -13.38 To 67.55 %

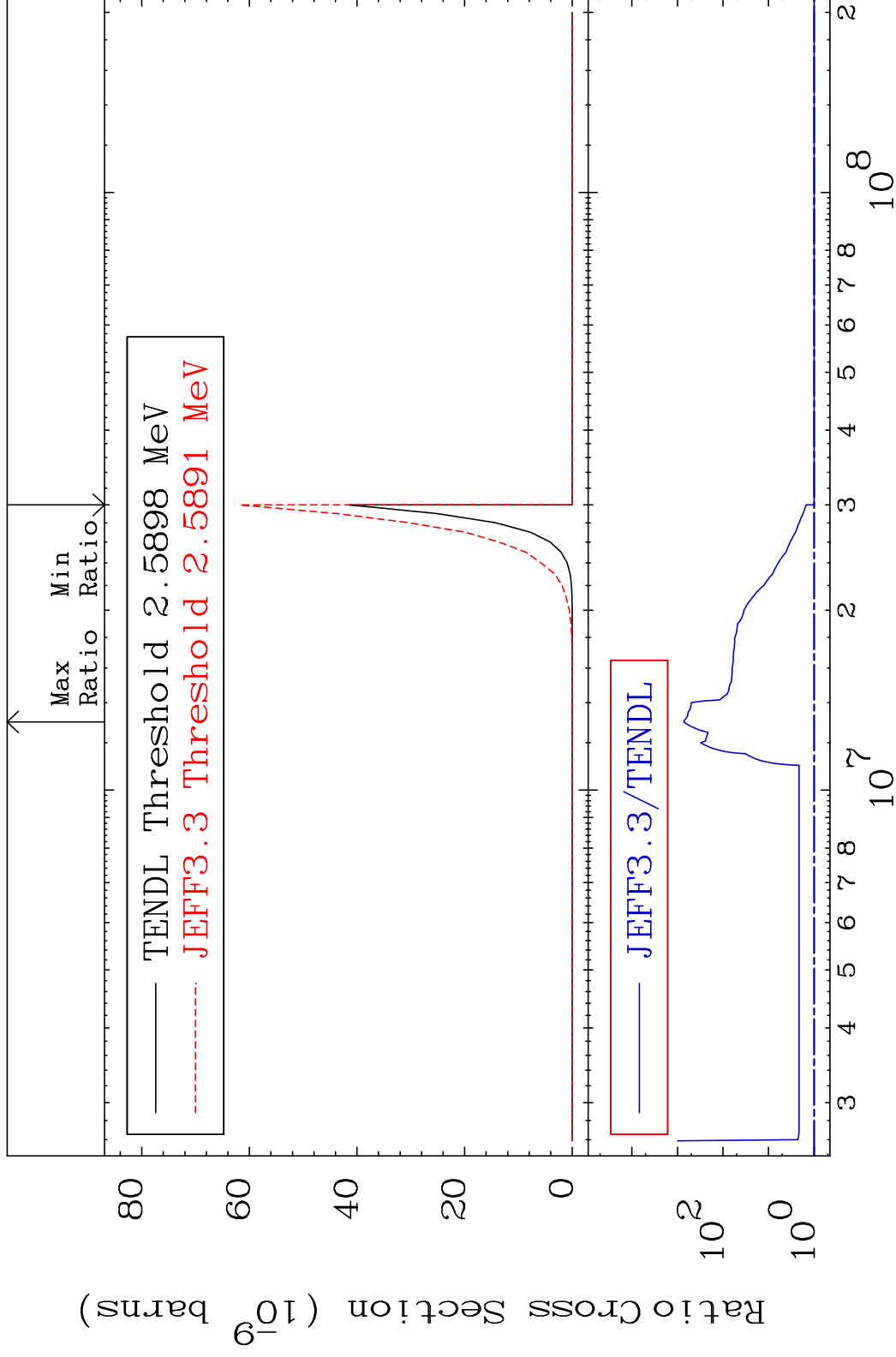


MAT 6153

(n, d) α

61-Pm-148m

Cross Section 0.000 To 9999. %

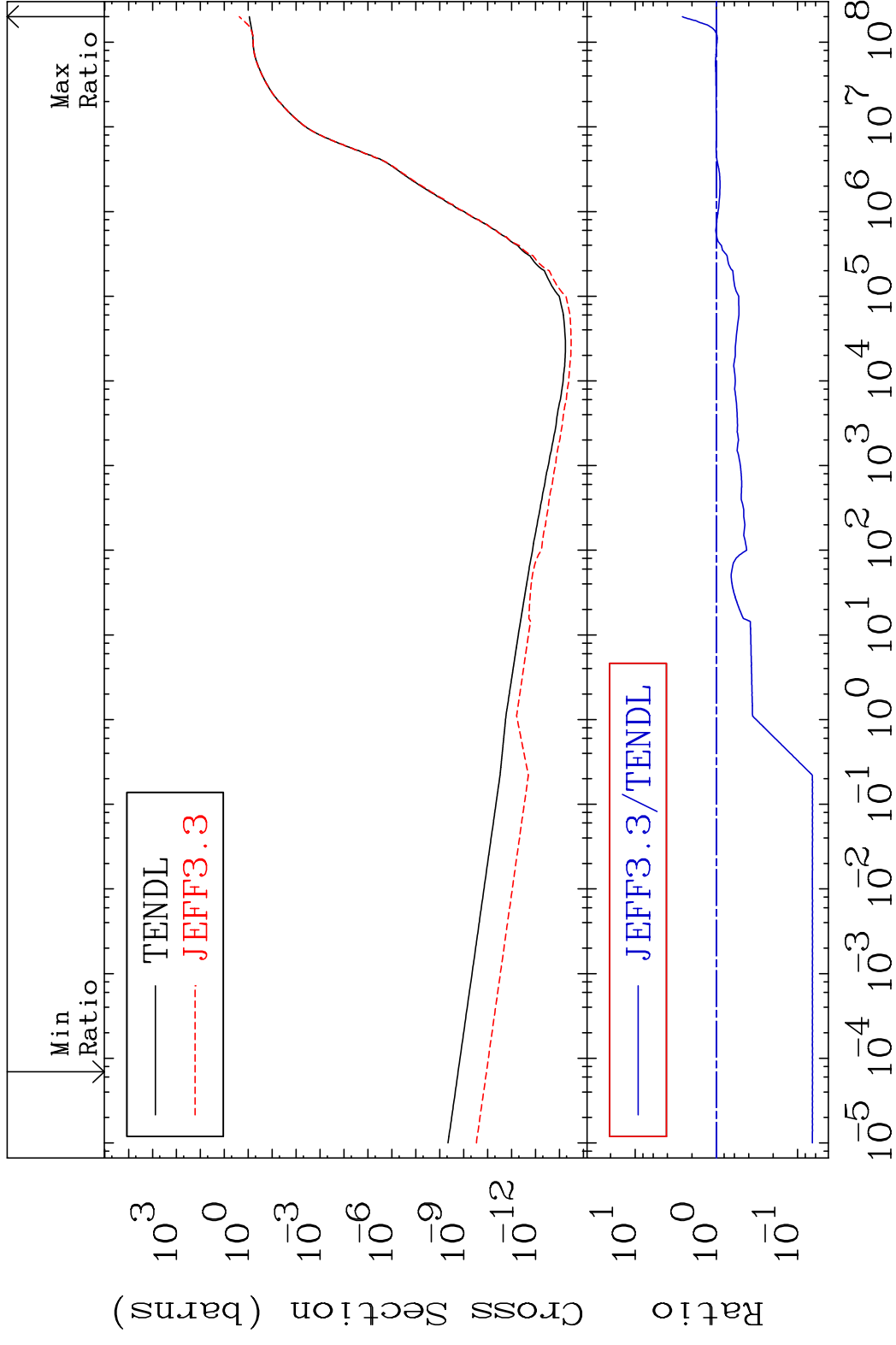


63

Incident Energy (eV)

61-Pm-148m

MAT 6153 Hydrogen Production 61-Pm-148m
 Cross Section -93.47 To 161.9 %



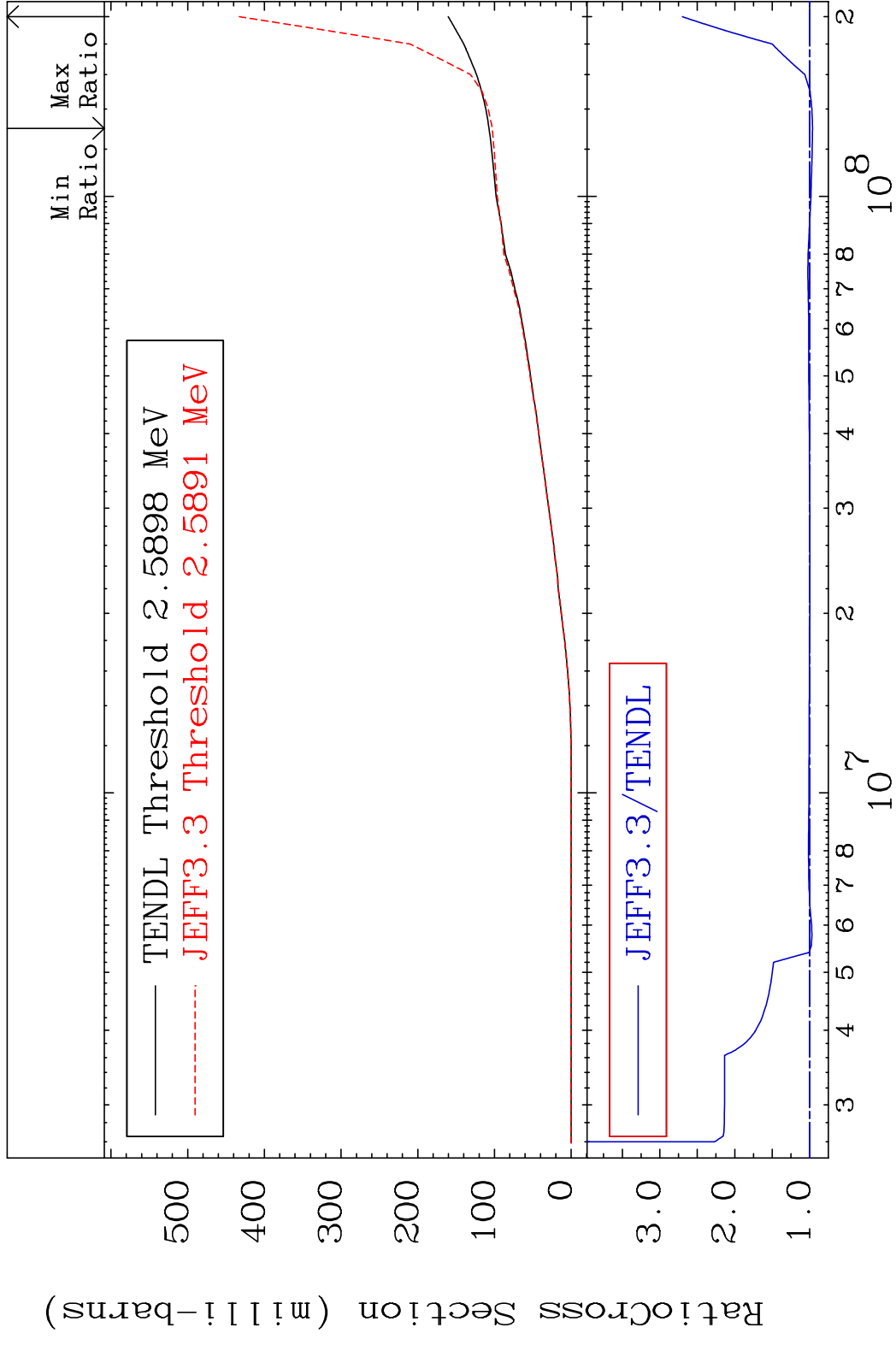
64 Incident Energy (eV) 61-Pm-148m

MAT 6153

Deuterium Production

61-Pm-148m

Cross Section -3.774 To 169.9 %

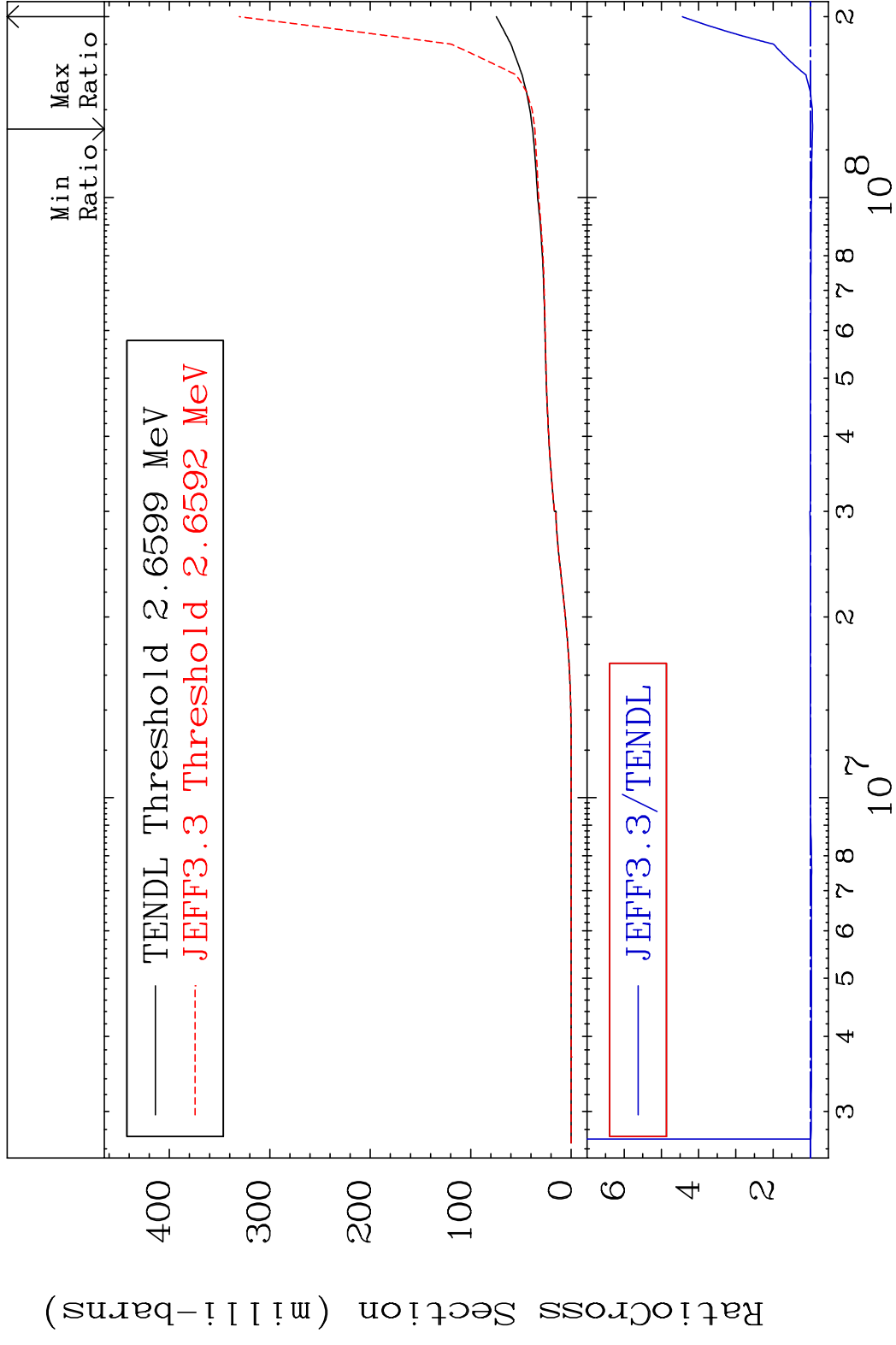


MAT 6153

Tritium Production

61-Pm-148m

Cross Section -6.038 To 343.7 %



66

Incident Energy (eV)

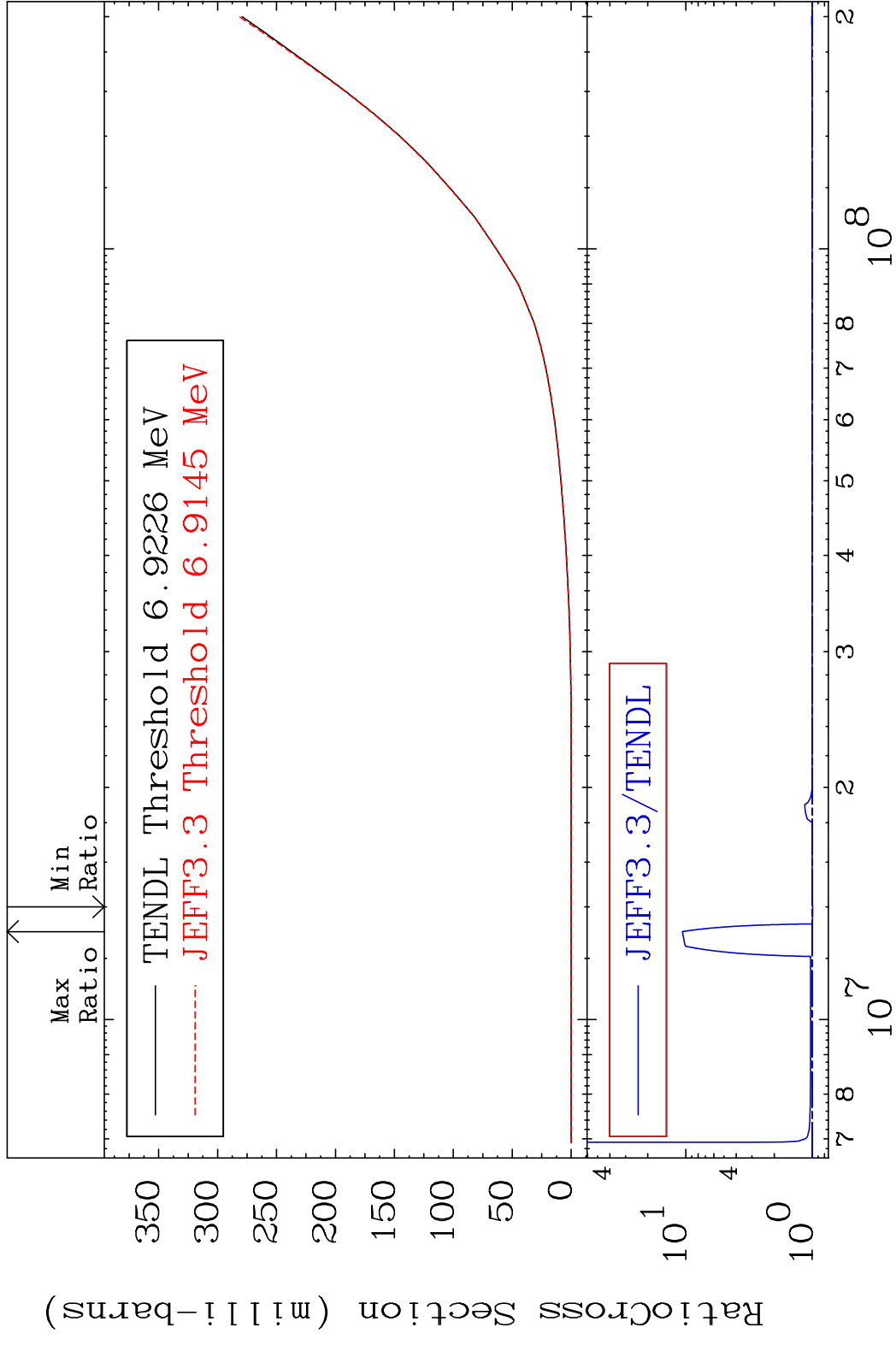
61-Pm-148m

MAT 6153

He-3 Production

61-Pm-148m

Cross Section -0.573 To 965.9 %



67

Incident Energy (eV)

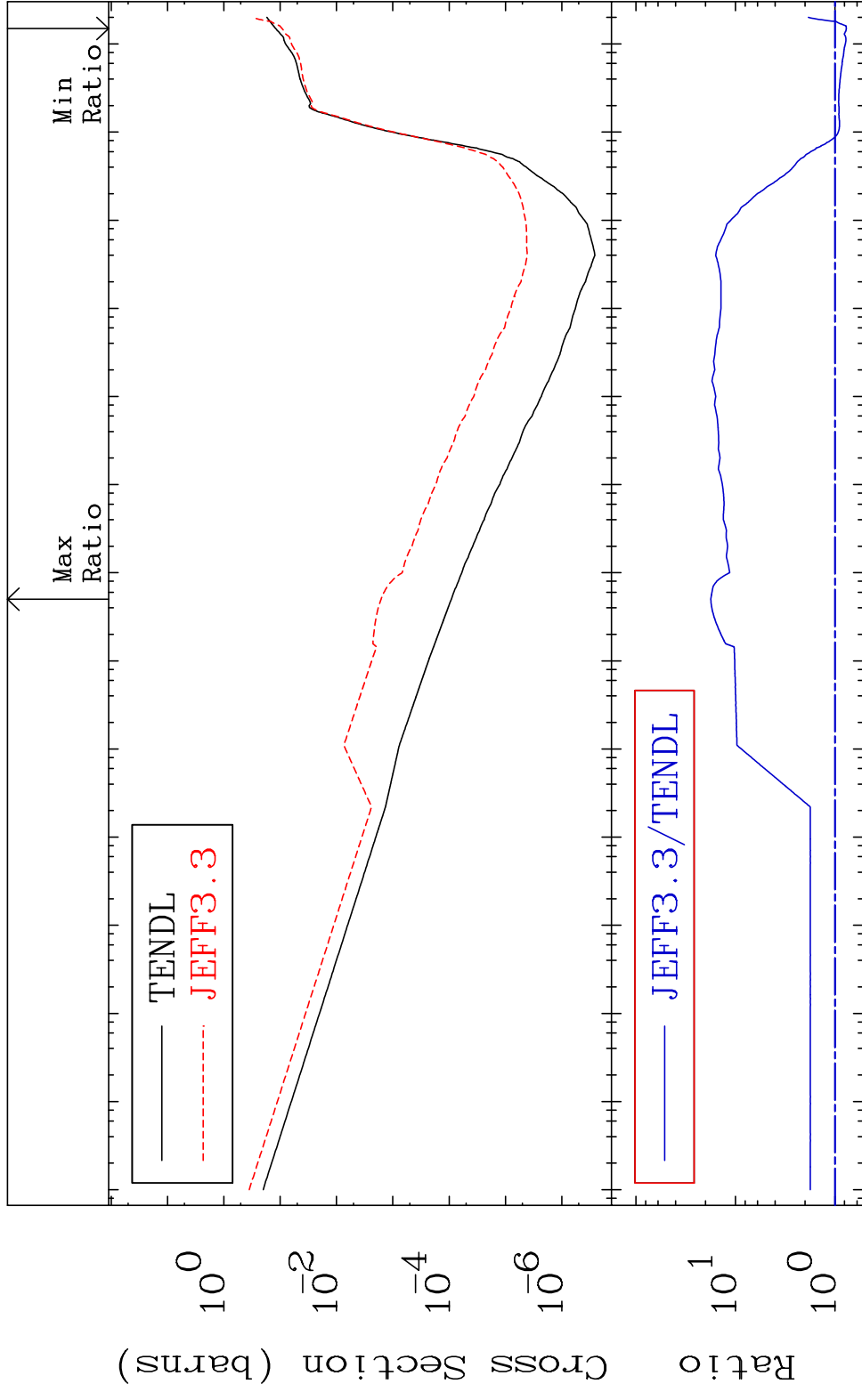
61-Pm-148m

MAT 6153

He-4 Production

61-Pm-148m

Cross Section -23.27 To 1673. %

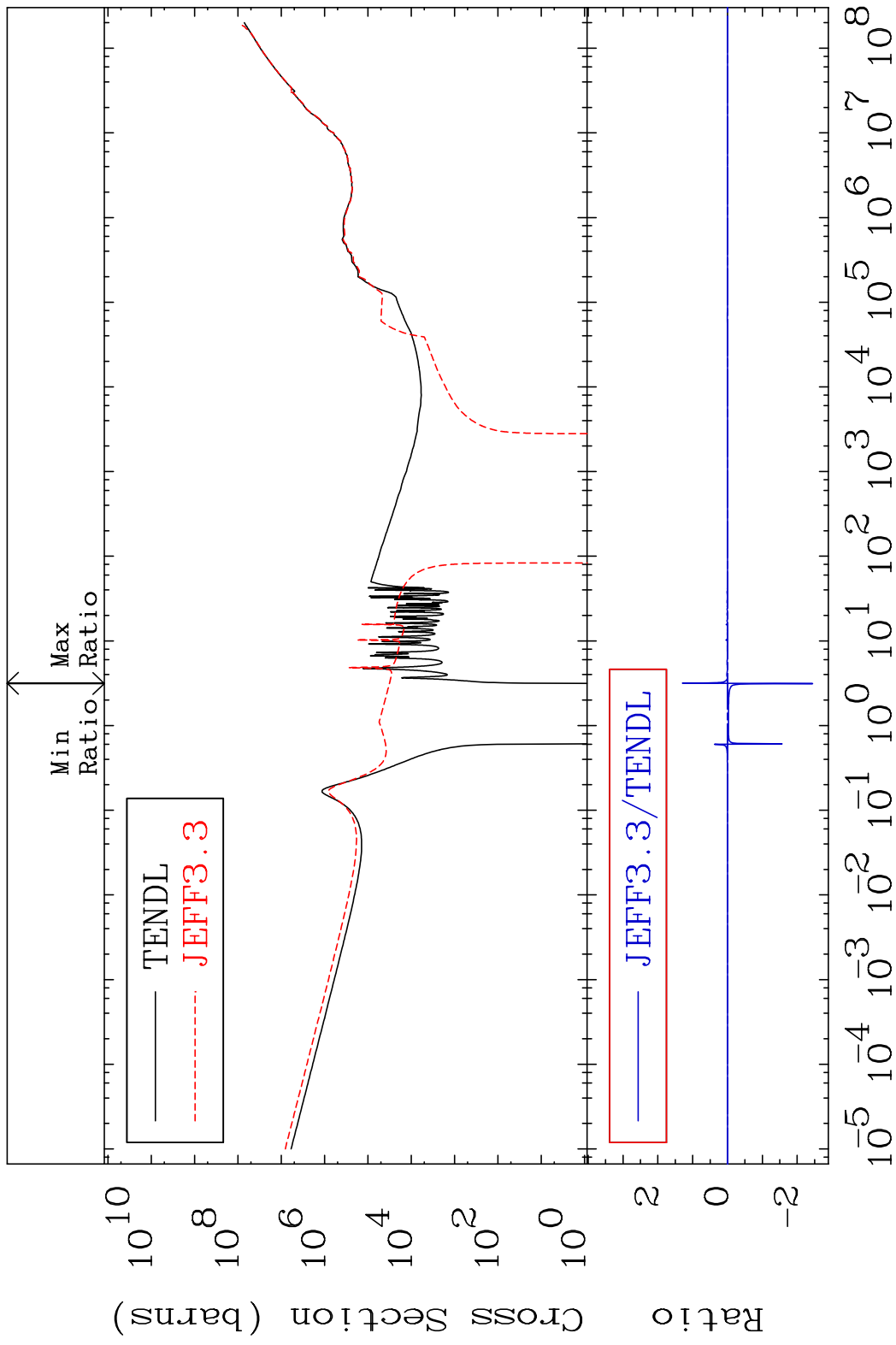


68

Incident Energy (eV)

61-Pm-148m

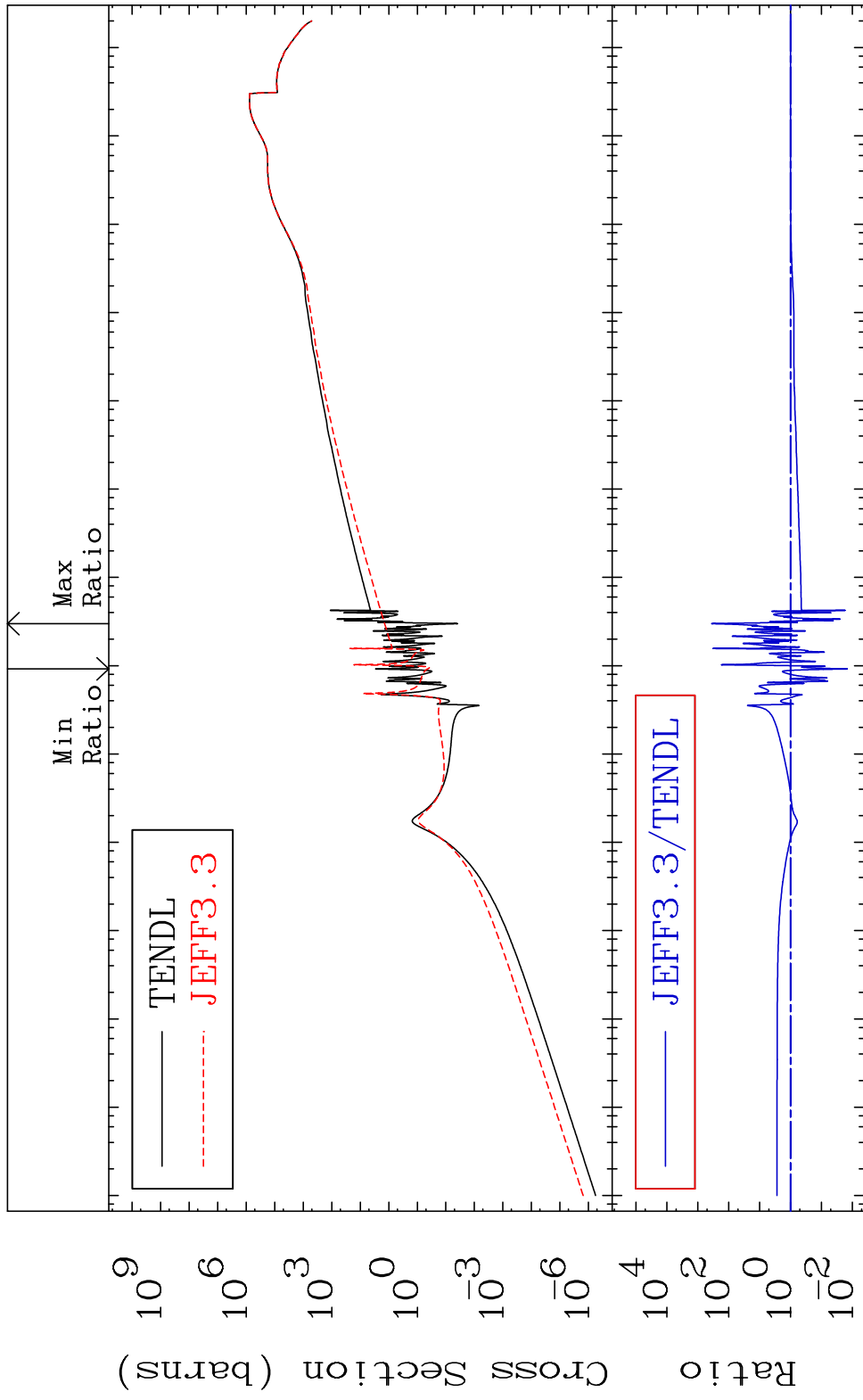
MAT 6153 Kerma total (eV-barns) 61-Pm-148m
 Cross Section -9999. To 9999. %



69 Incident Energy (eV) 61-Pm-148m

MAT 6153

Kerma elastic 61-Pm-148m
Cross Section -98.54 To 9999. %

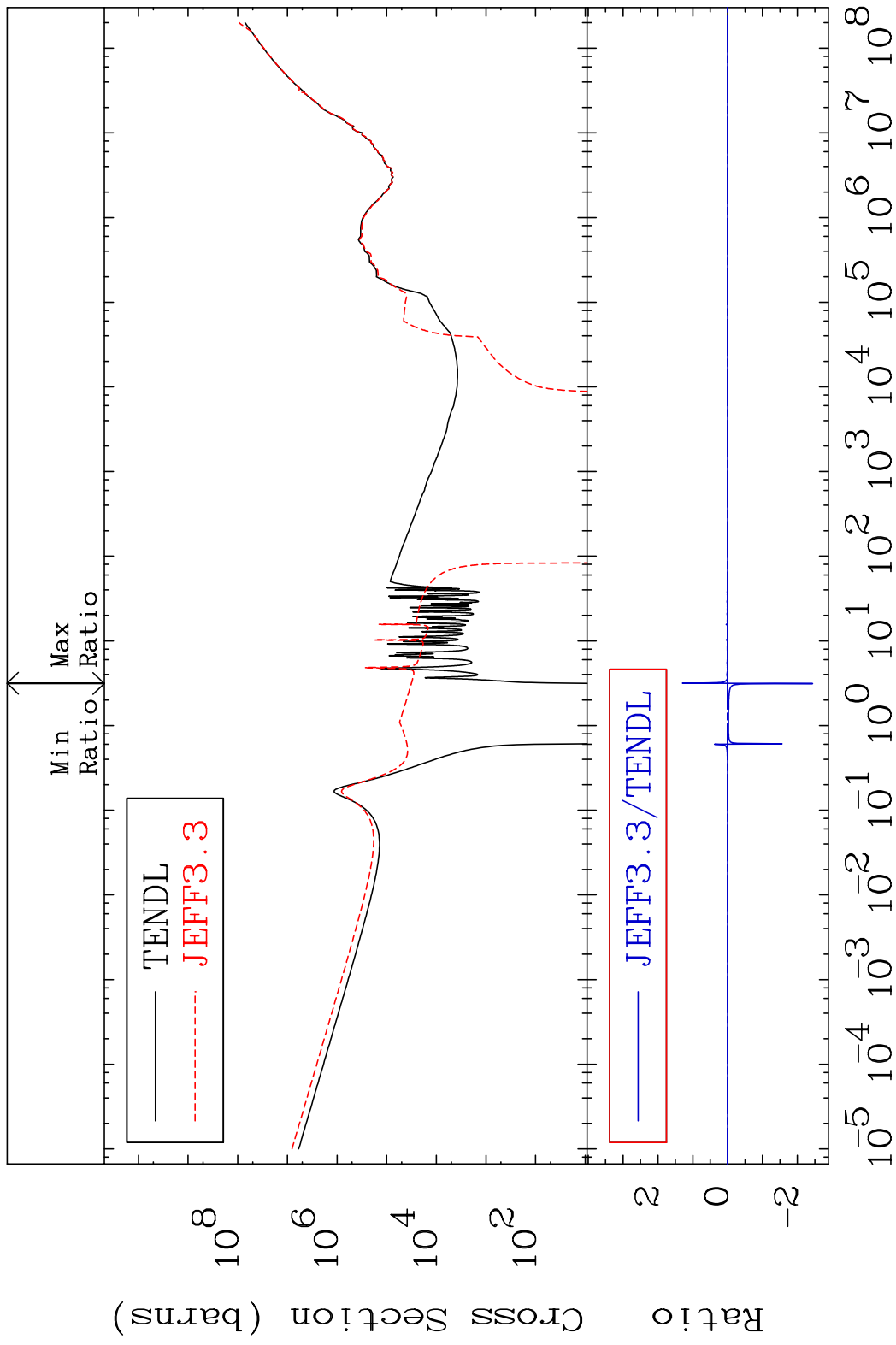


70

Incident Energy (eV)

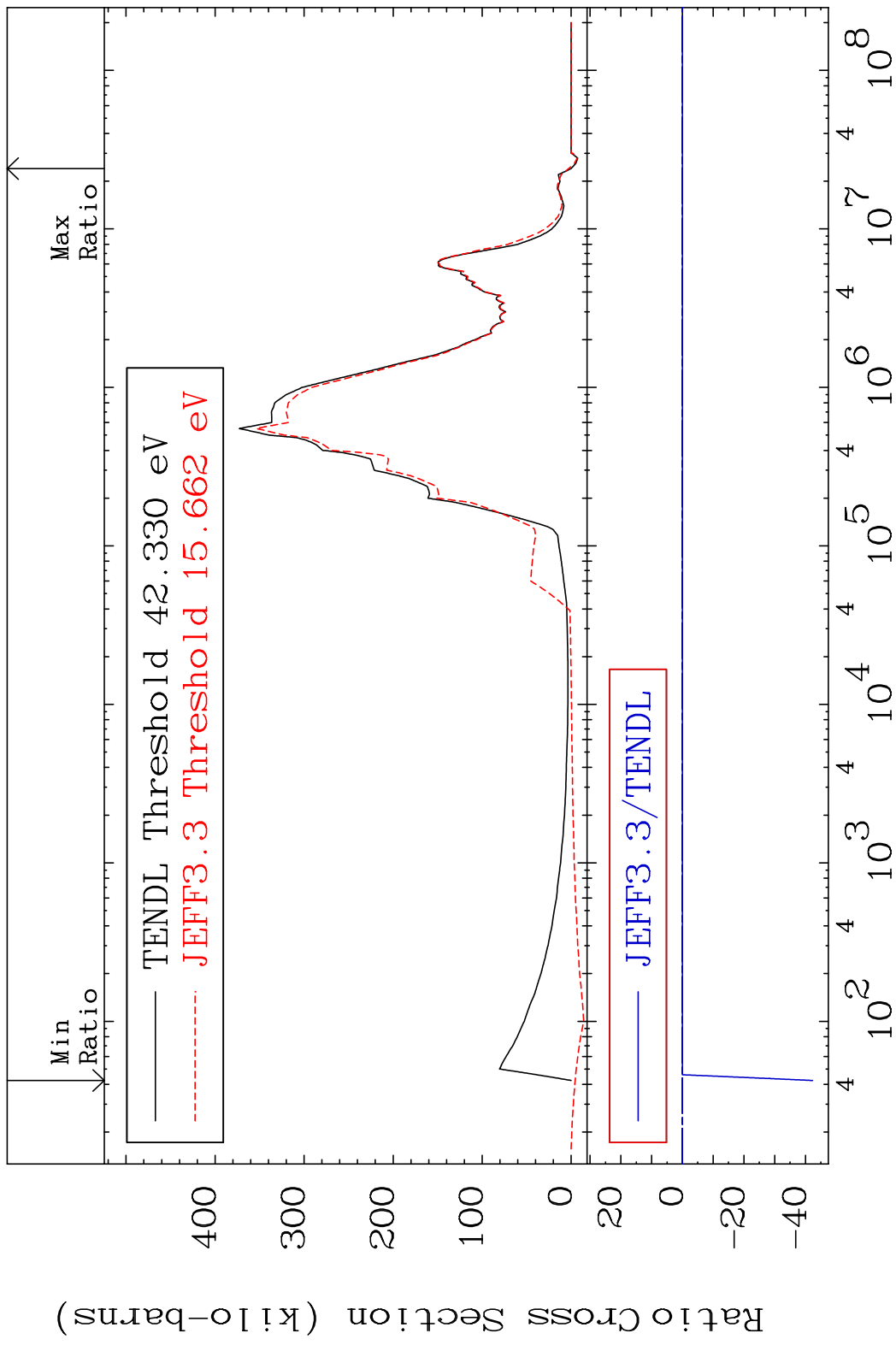
61-Pm-148m

MAT 6153 Kerma non-elastic (all but mt2) 61-Pm-148m
 Cross Section -9999. To 9999. %

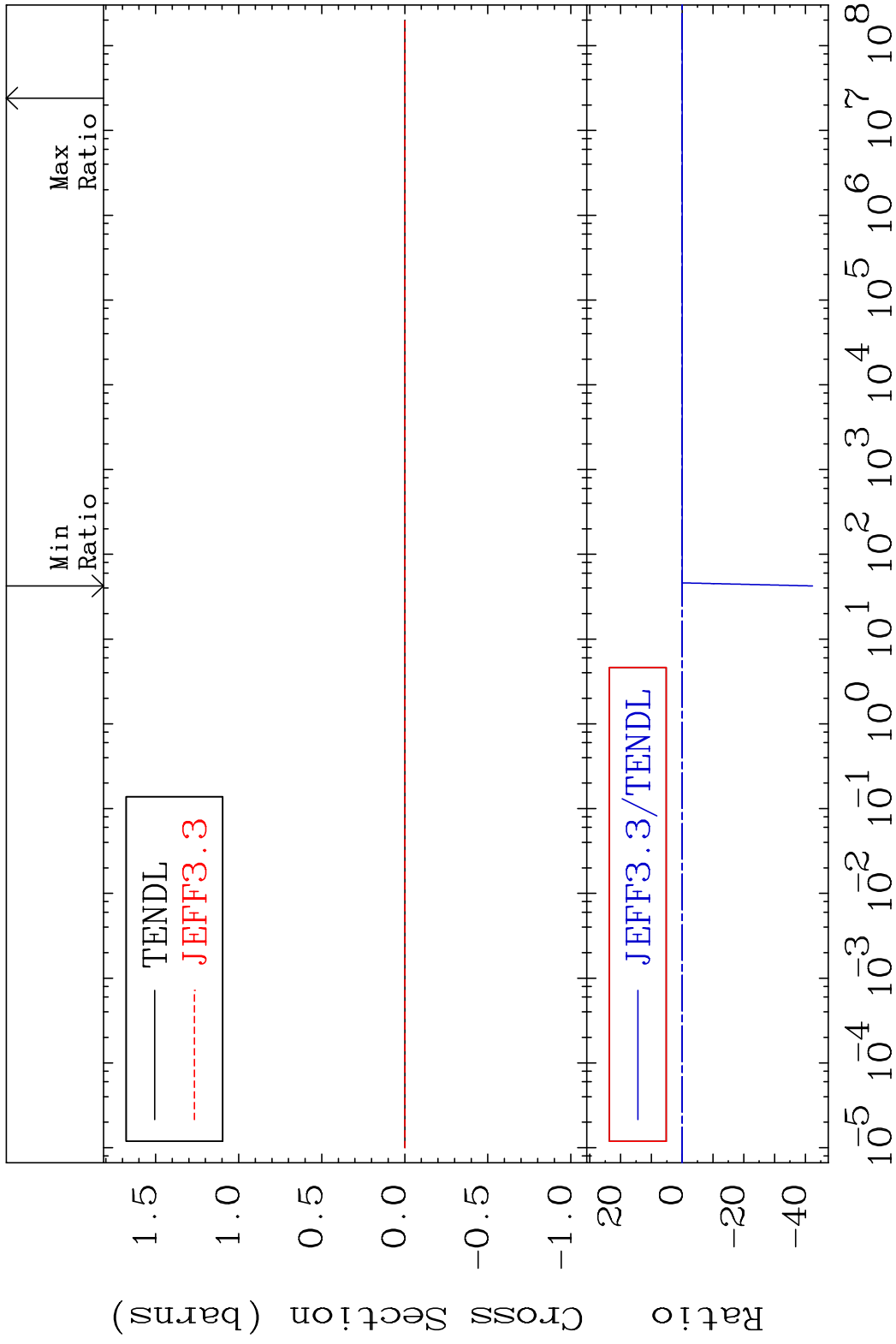


71 Incident Energy (eV) 61-Pm-148m

MAT 6153 Kerma inelastic (mt51-91) 61-Pm-148m
 Cross Section -9999. To 1316. %



MAT 6153 Kerma fission (mt18 or mt19-20-21-36)-Pm-148m
 Cross Section -9999. To 1316. %



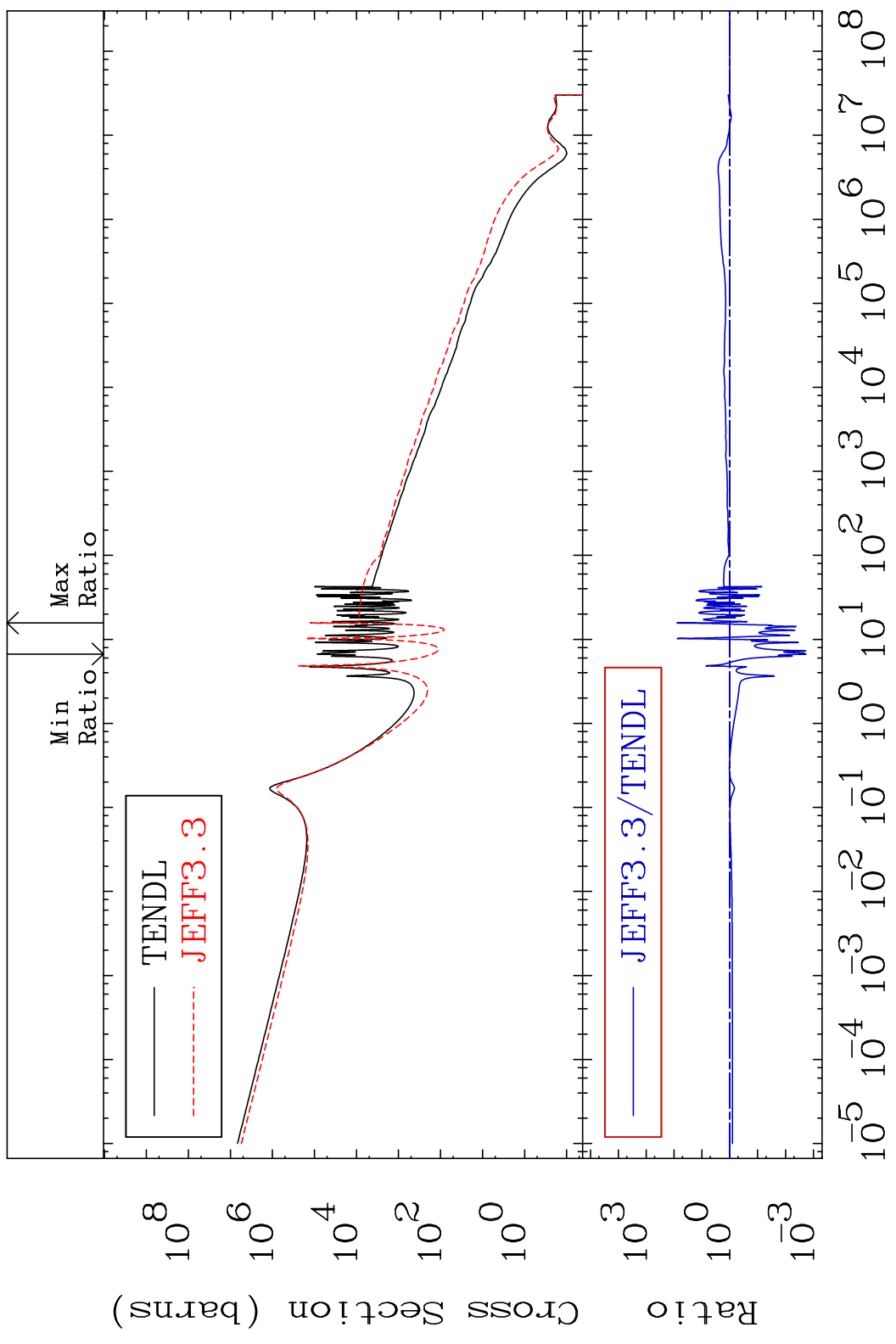
73

Incident Energy (eV)

61-Pm-148m

MAT 6153

Kerma capture (mt102) 61-Pm-148m
Cross Section -99.82 To 7639. %

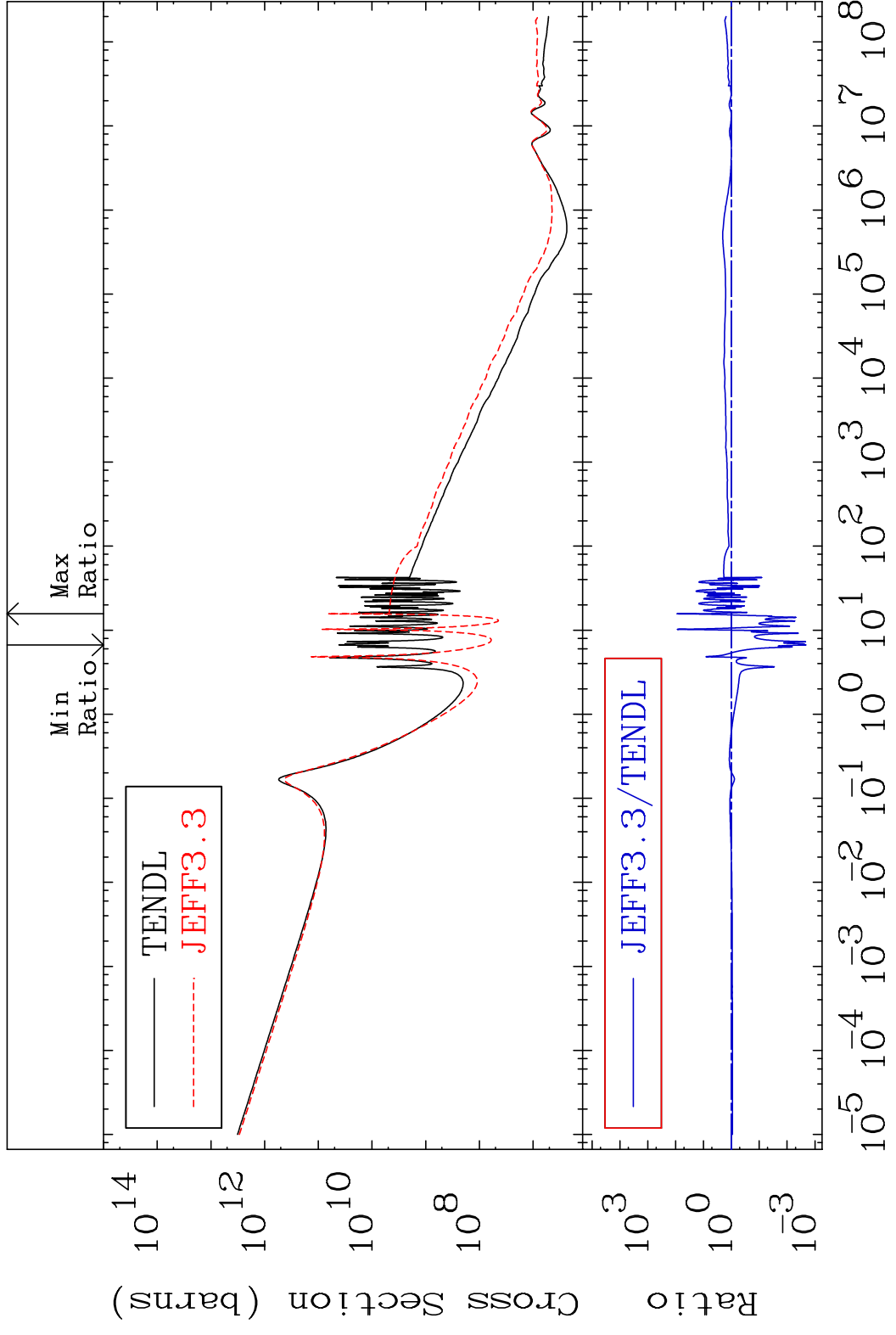


74

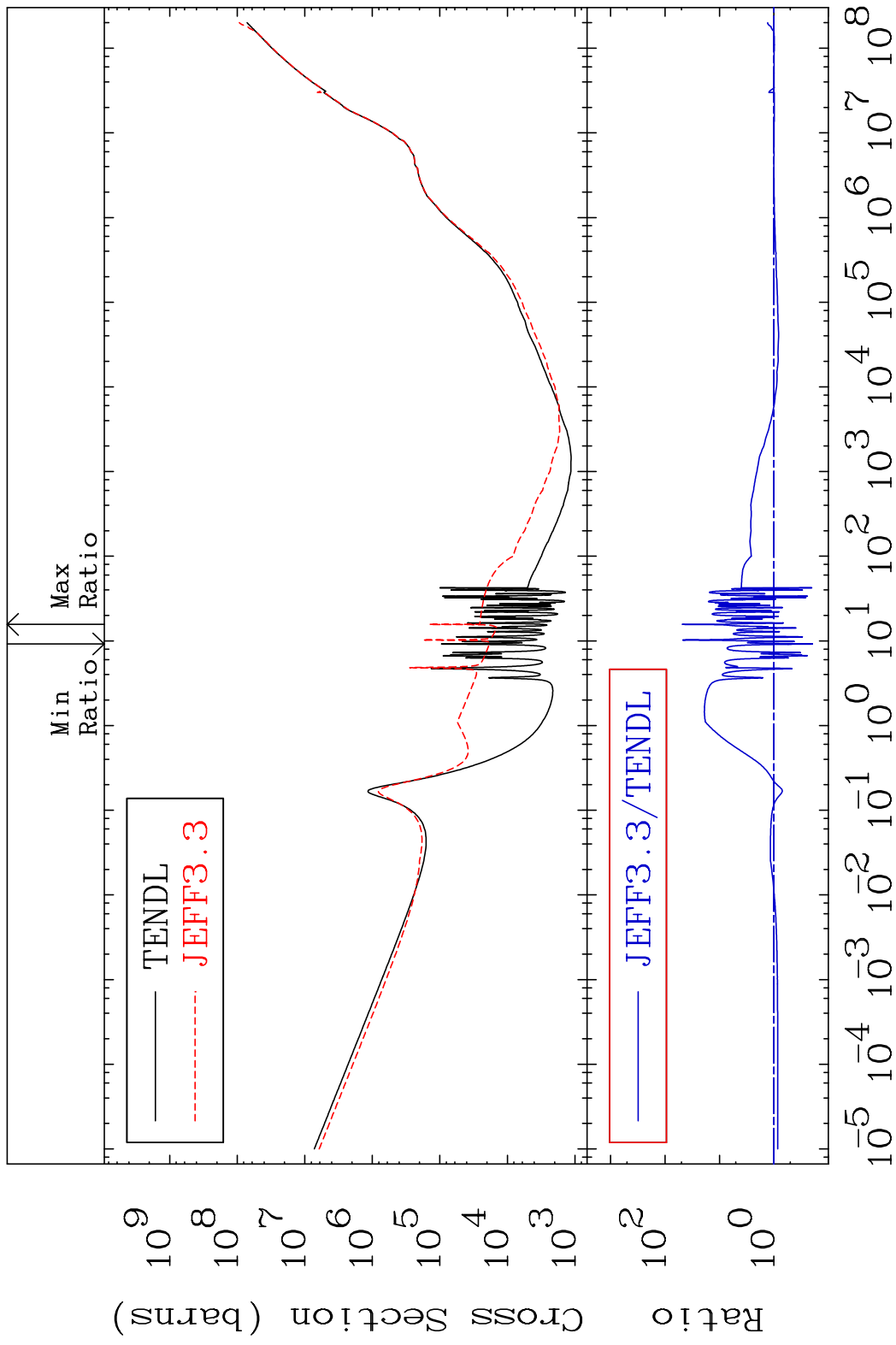
Incident Energy (eV) 61-Pm-148m

MAT 6153

Total photon (eV-barns) 61-Pm-148m
Cross Section -99.80 To 8702. %



MAT 6153 Total kinematic kerma (high limit)61-Pm-148m
 Cross Section -80.54 To 4705. %

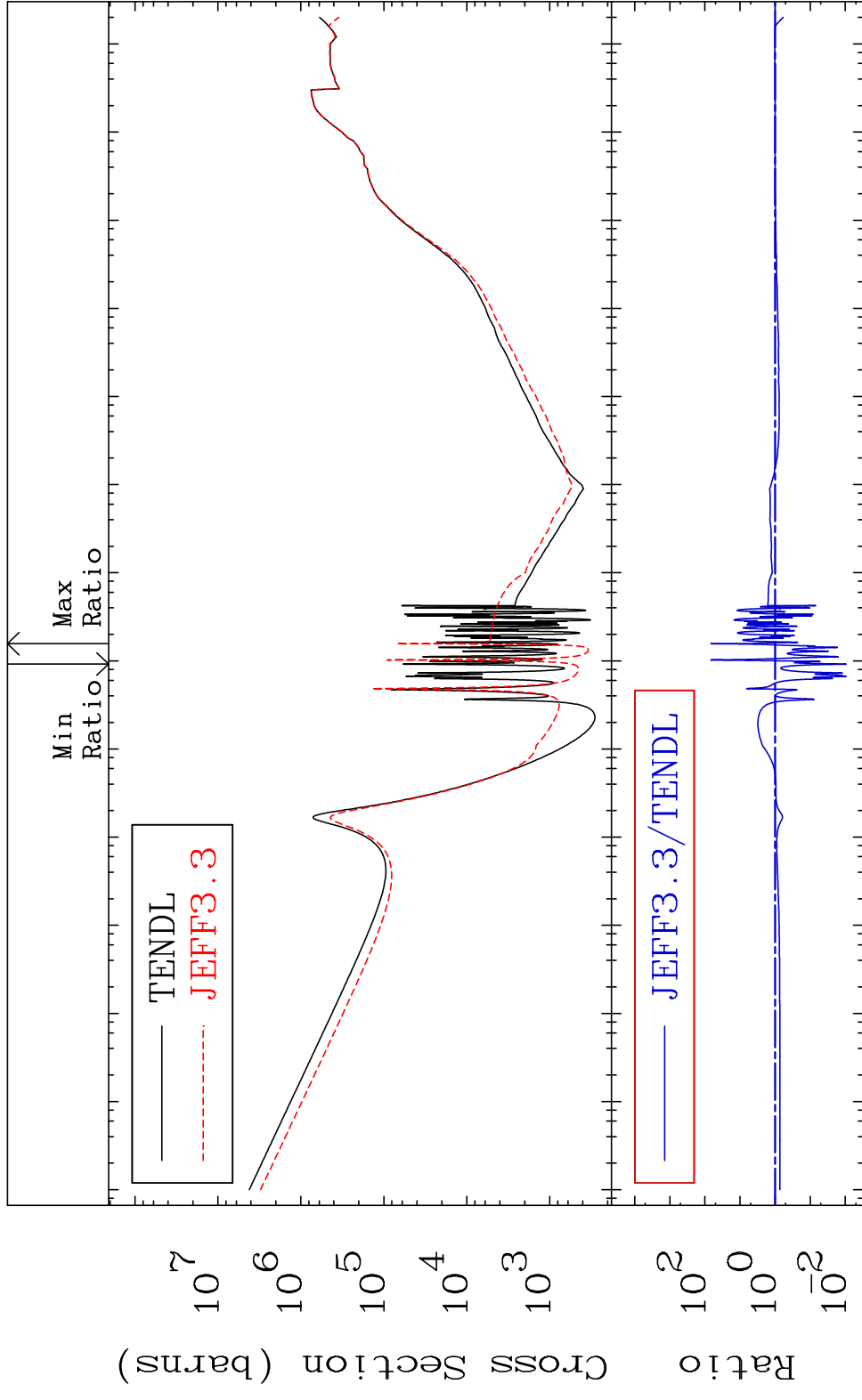


MAT 6153

Dpa total (eV-barns)

61-Pm-148m

Cross Section -99.07 To 6725. %



77

Incident Energy (eV)

61-Pm-148m

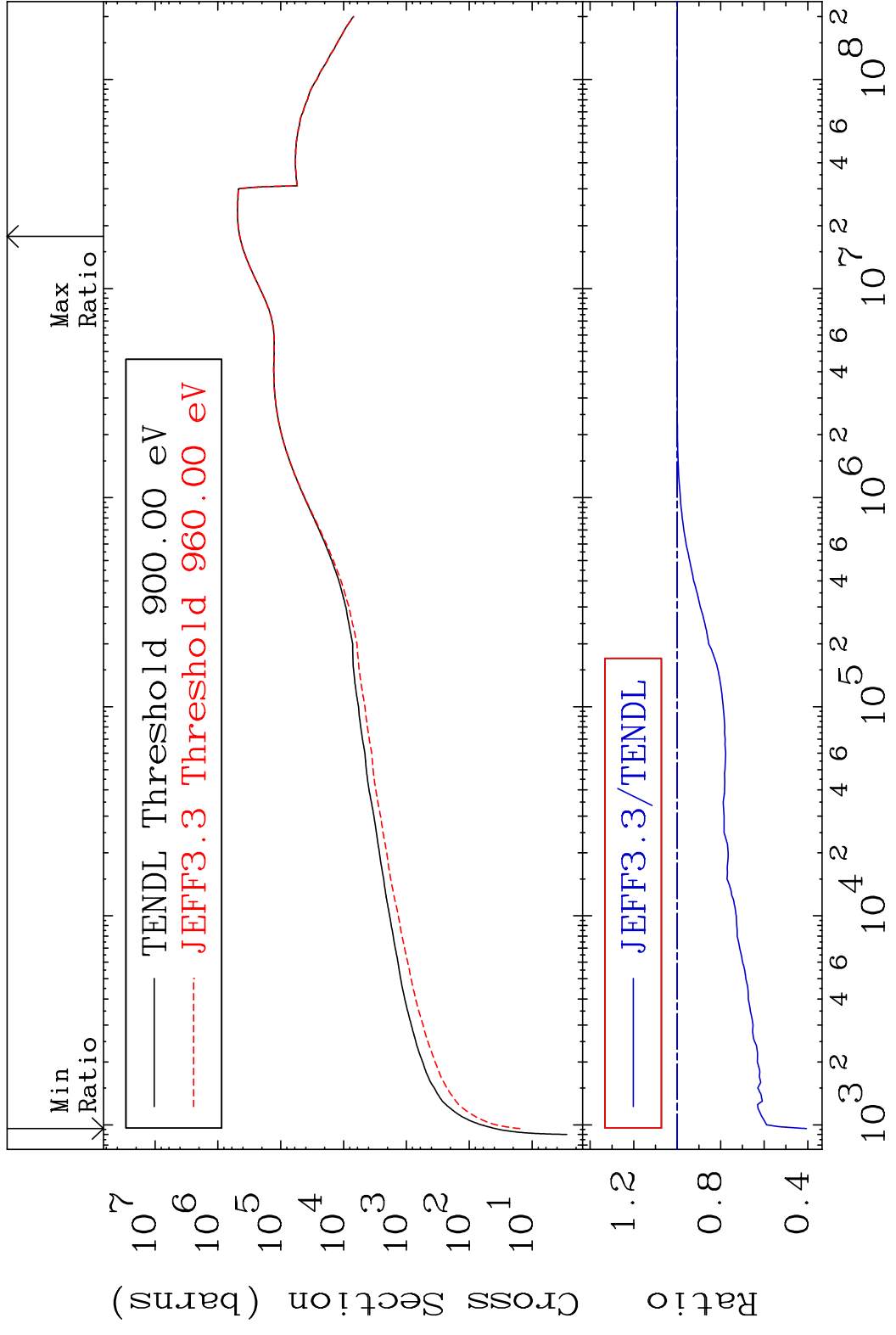
MAT 6153

Dpa elastic (mt2)

61-Pm-148m

Cross Section

-59.40 To 0.006 %

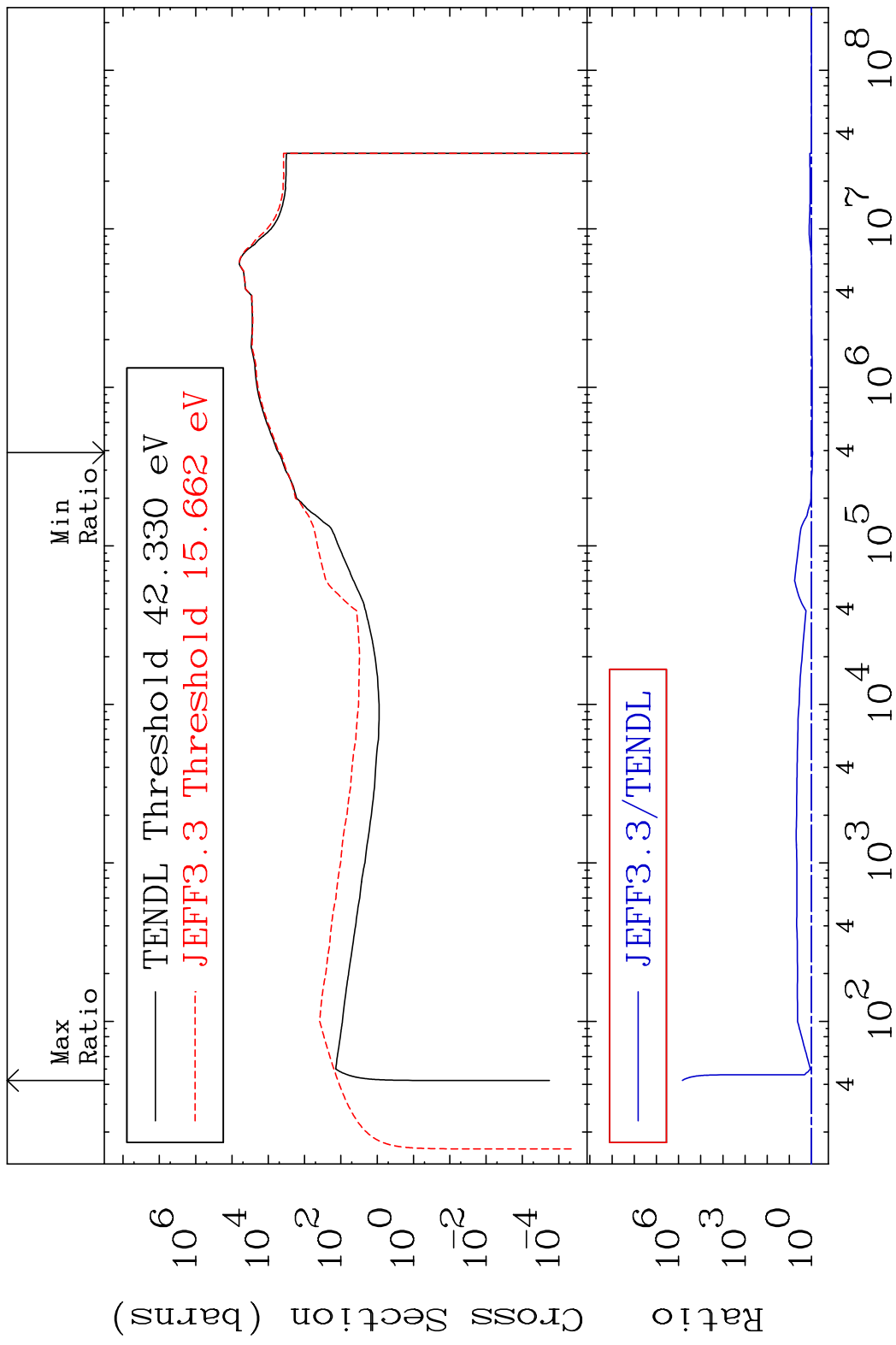


78

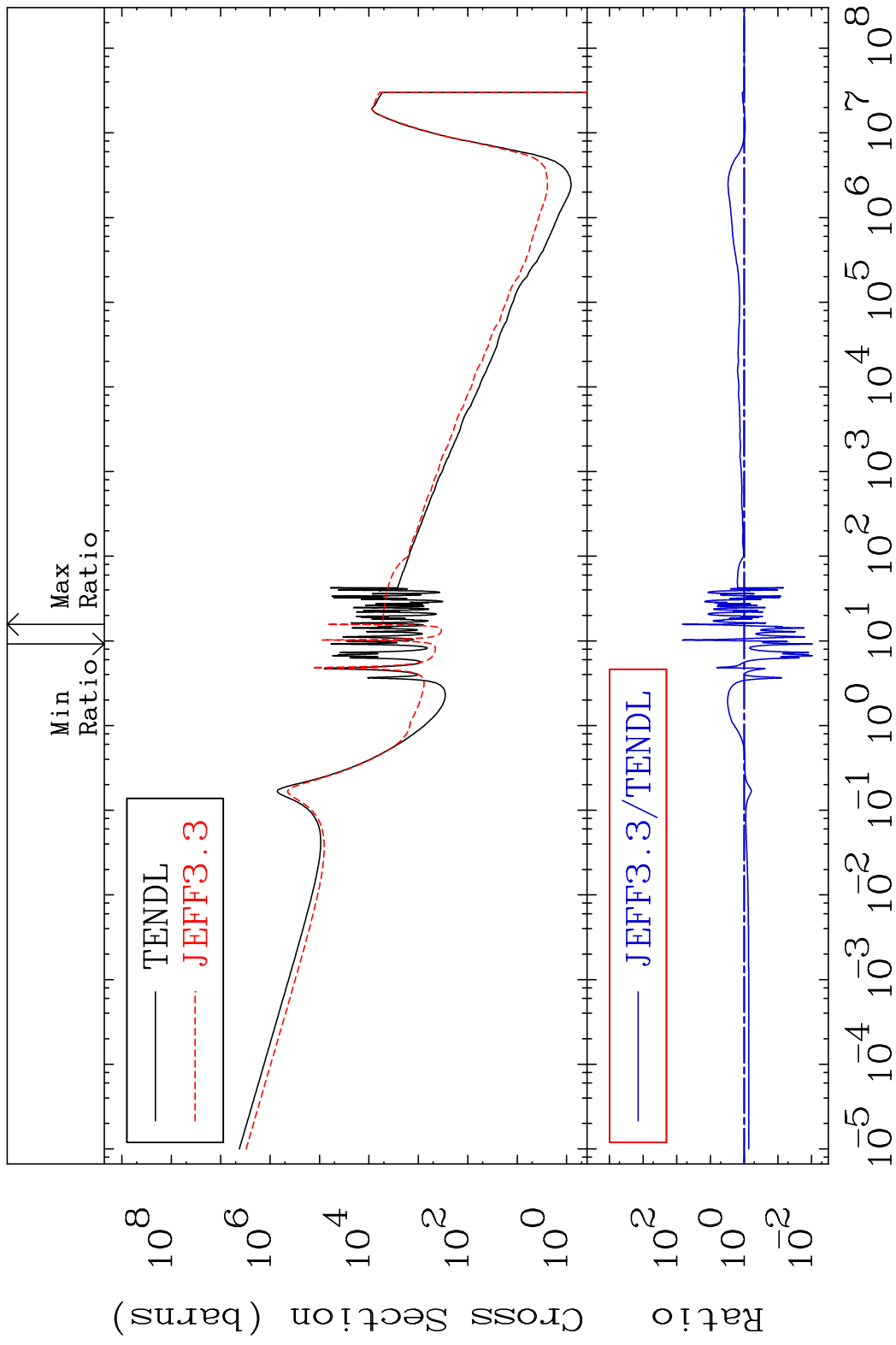
Incident Energy (eV)

61-Pm-148m

MAT 6153 Dpa inelastic (mt51-91) 61-Pm-148m
 Cross Section -10.04 To 9999. %



MAT 6153 Dpa disappearance (mt102 -120) 61-Pm-148m
 Cross Section -99.07 To 6725. %



80 Incident Energy (eV) 61-Pm-148m

MAT 6153 (n,3n) α :59-Pr-142g 61-Pm-148m
 Radionuclide Production Cross Section to 9999. %

