

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

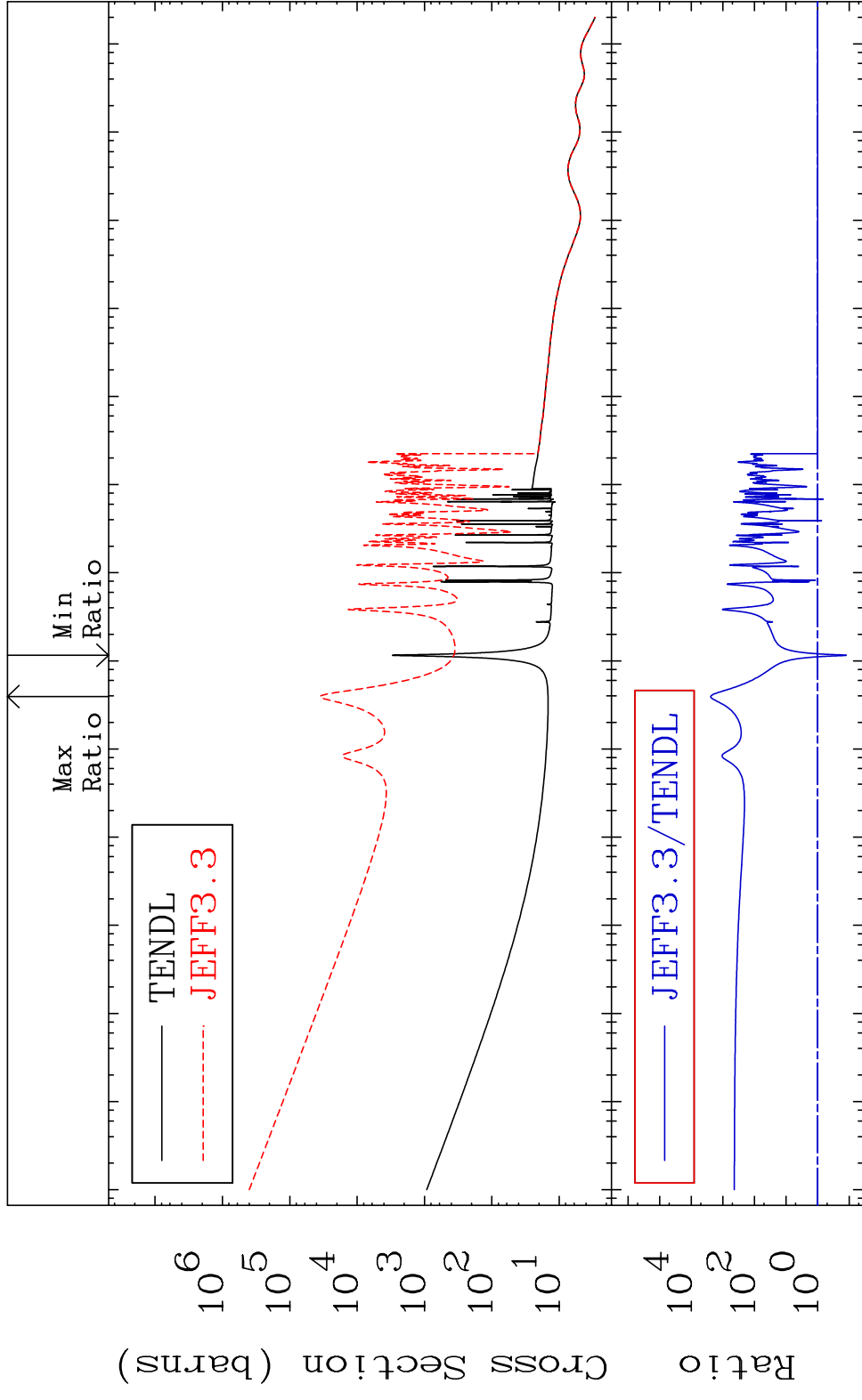
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 8122

Total Cross Section -87.68 To 9999. %

81-T1-202



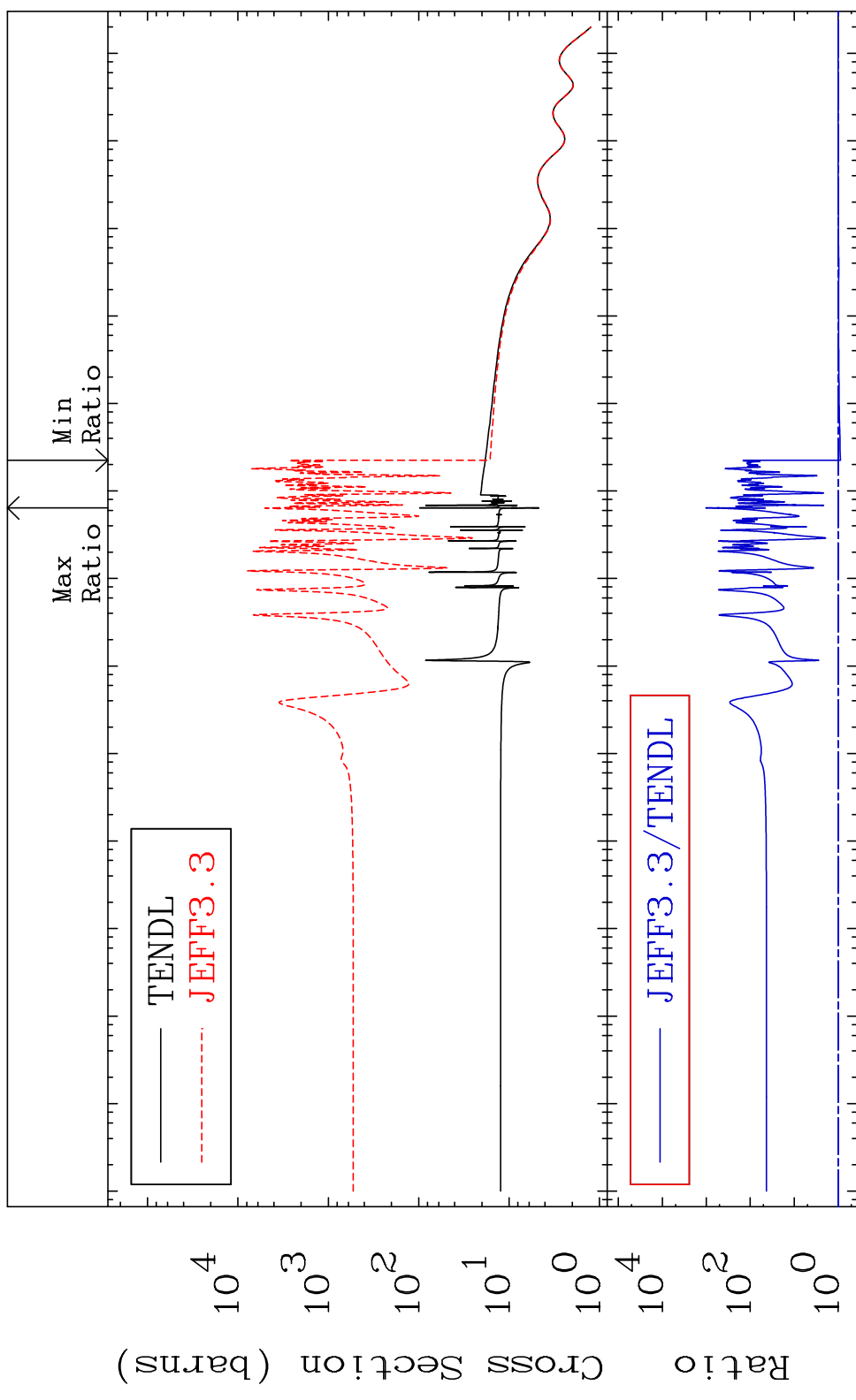
1

Incident Energy (eV)

81-T1-202

MAT 8122

Elastic Cross Section -11.50 To 9999. %
81-Tl-202



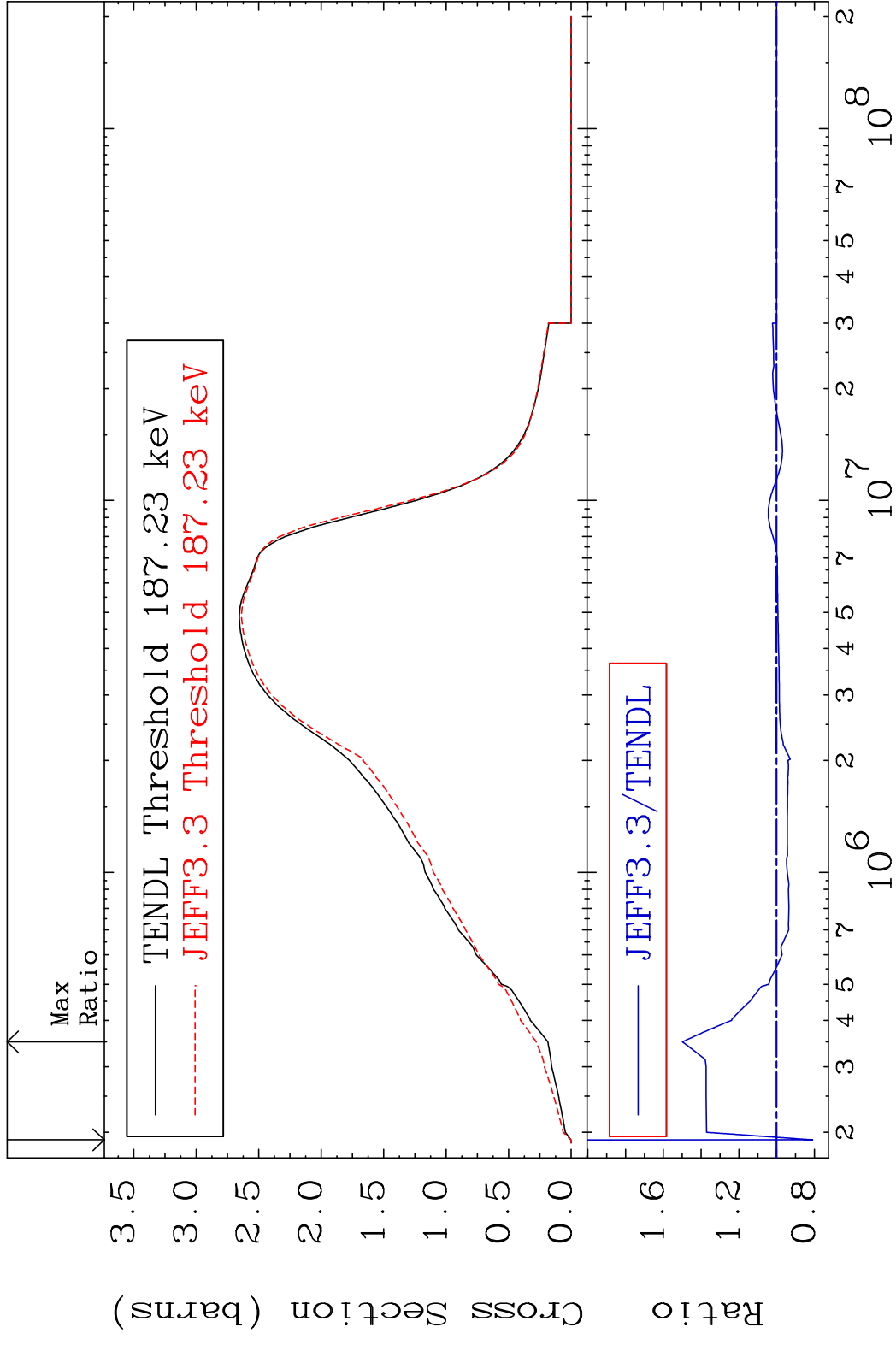
MAT 8122

Inelastic

81-Tl-202

Cross Section

-19.00 To 49.93 %

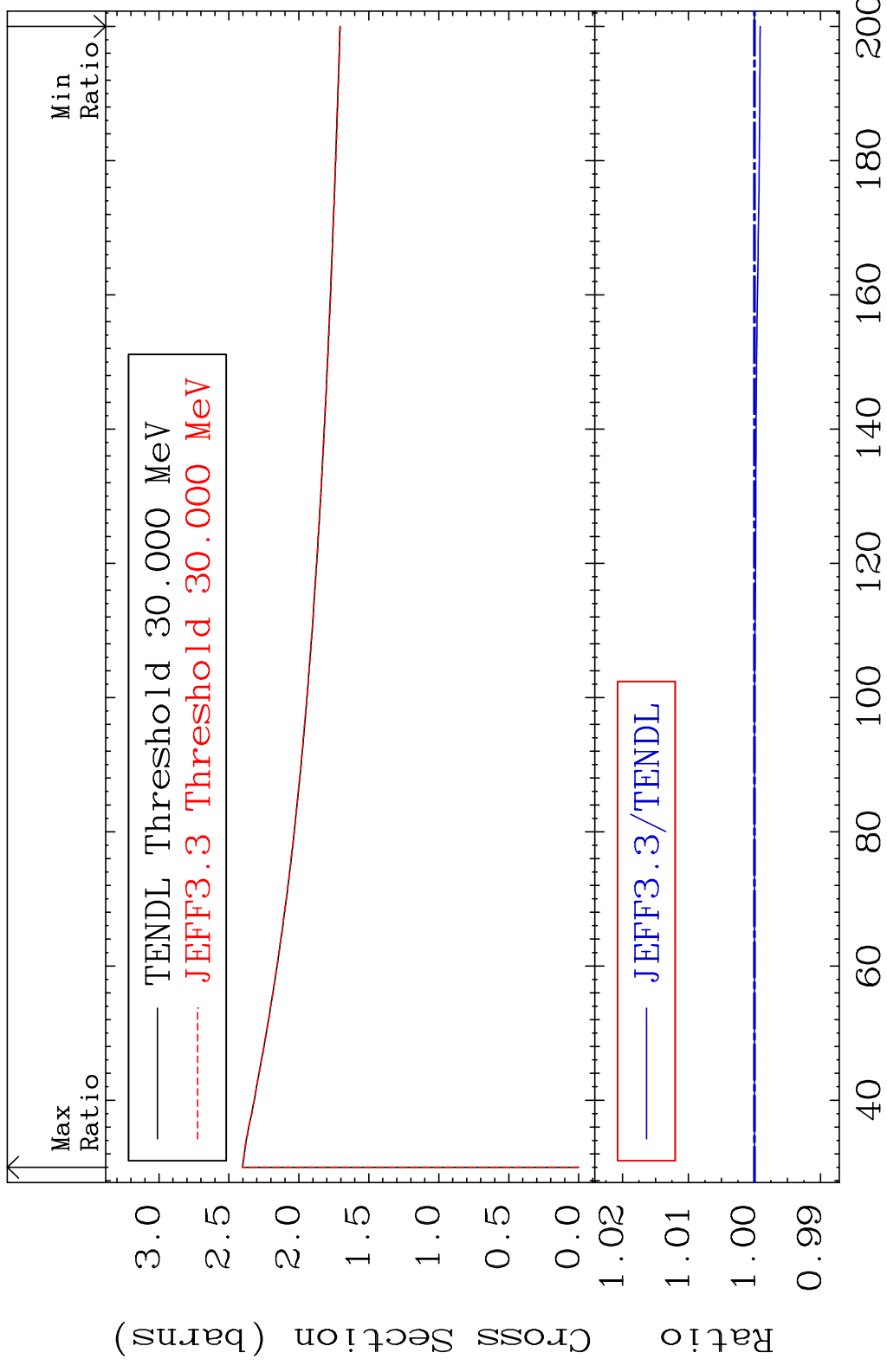


MAT 8122

(n, remainder)

81-T1-202

Cross Section -0.086 To 0.000 %

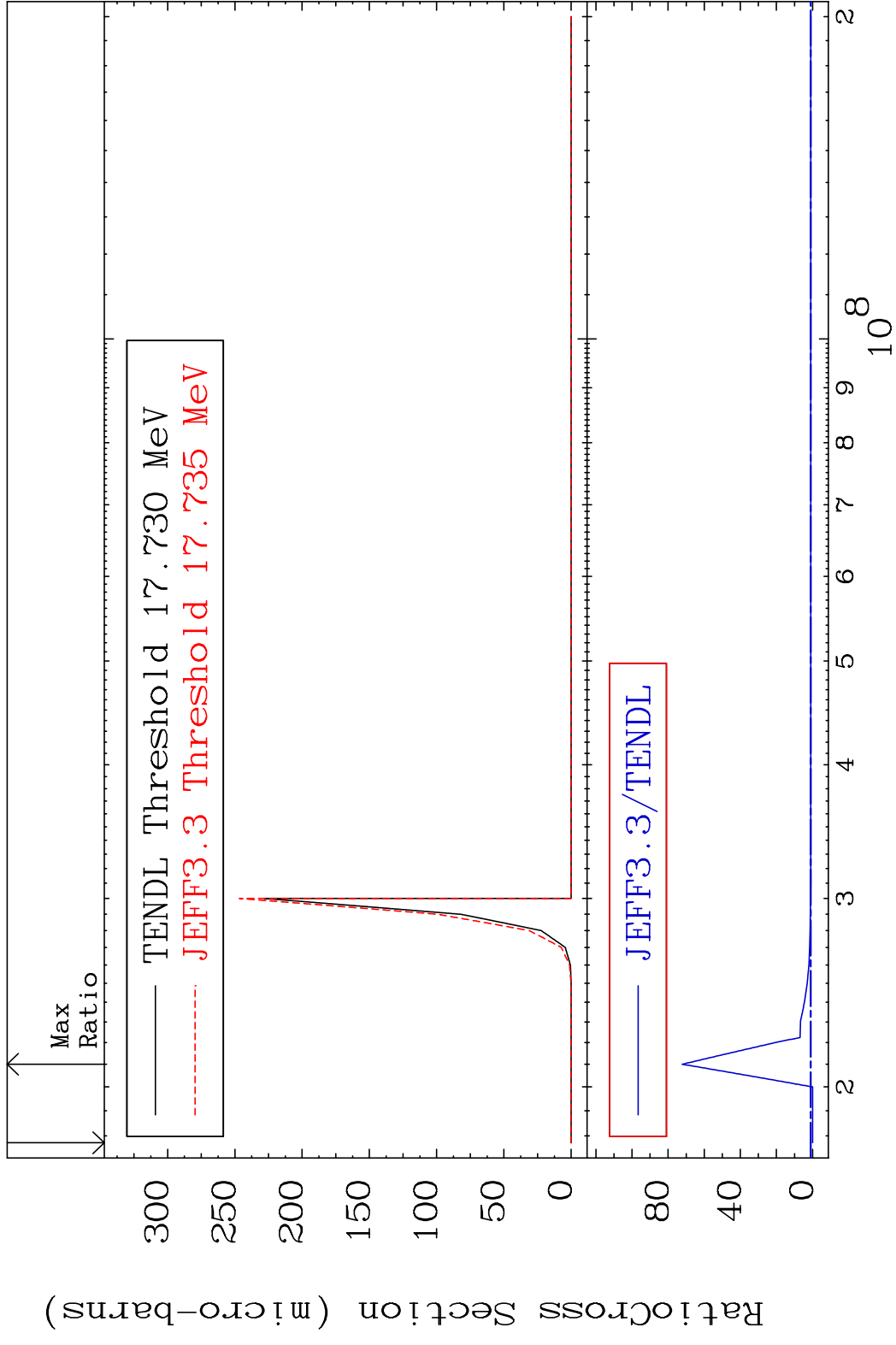


MAT 8122

(n,2n) d

81-Tl-202

Cross Section -100.0 To 7111. %



5

Incident Energy (eV)

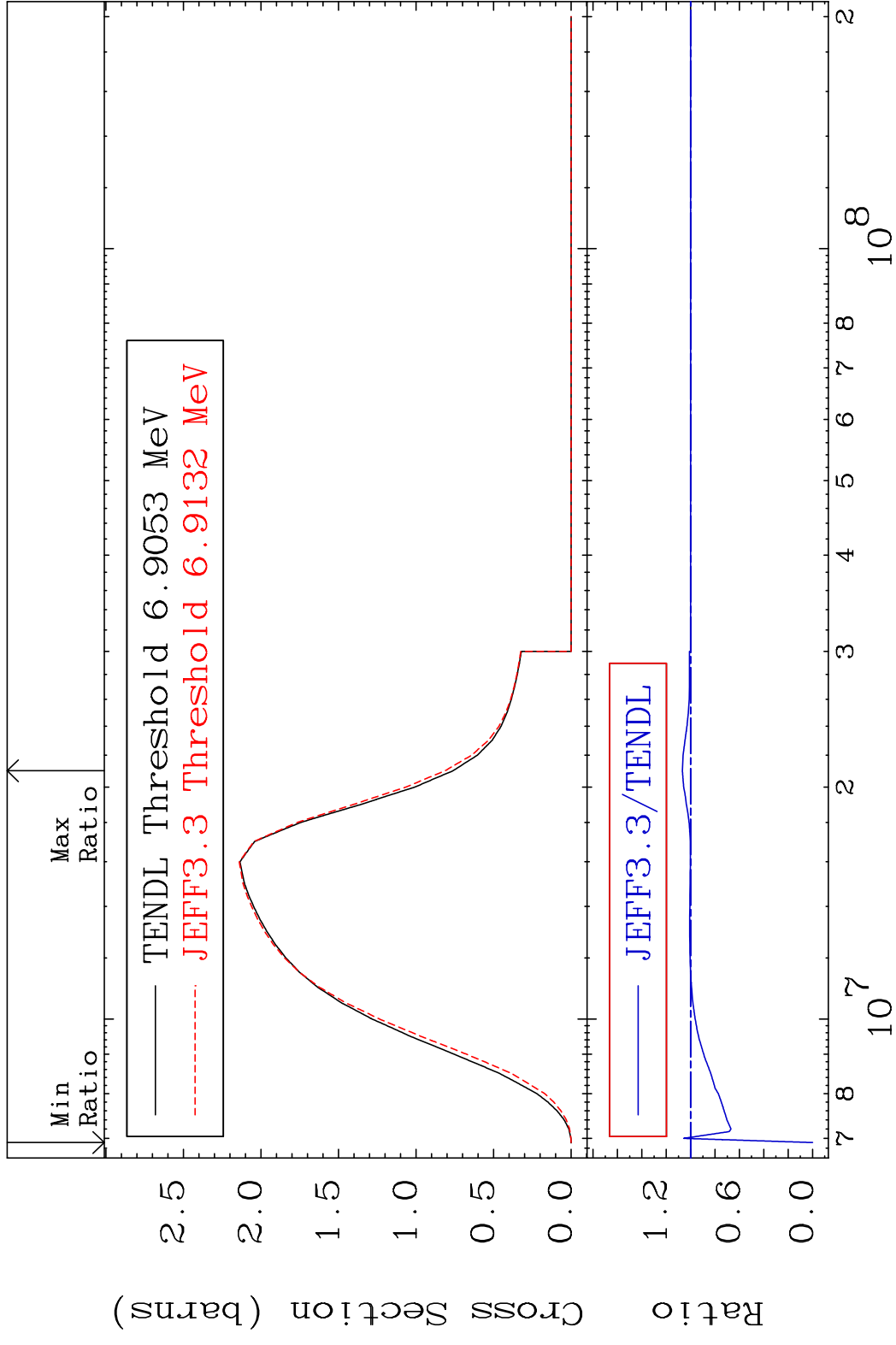
81-Tl-202

MAT 8122

(n,2n)

81-Tl-202

Cross Section -100.0 To 6.787 %

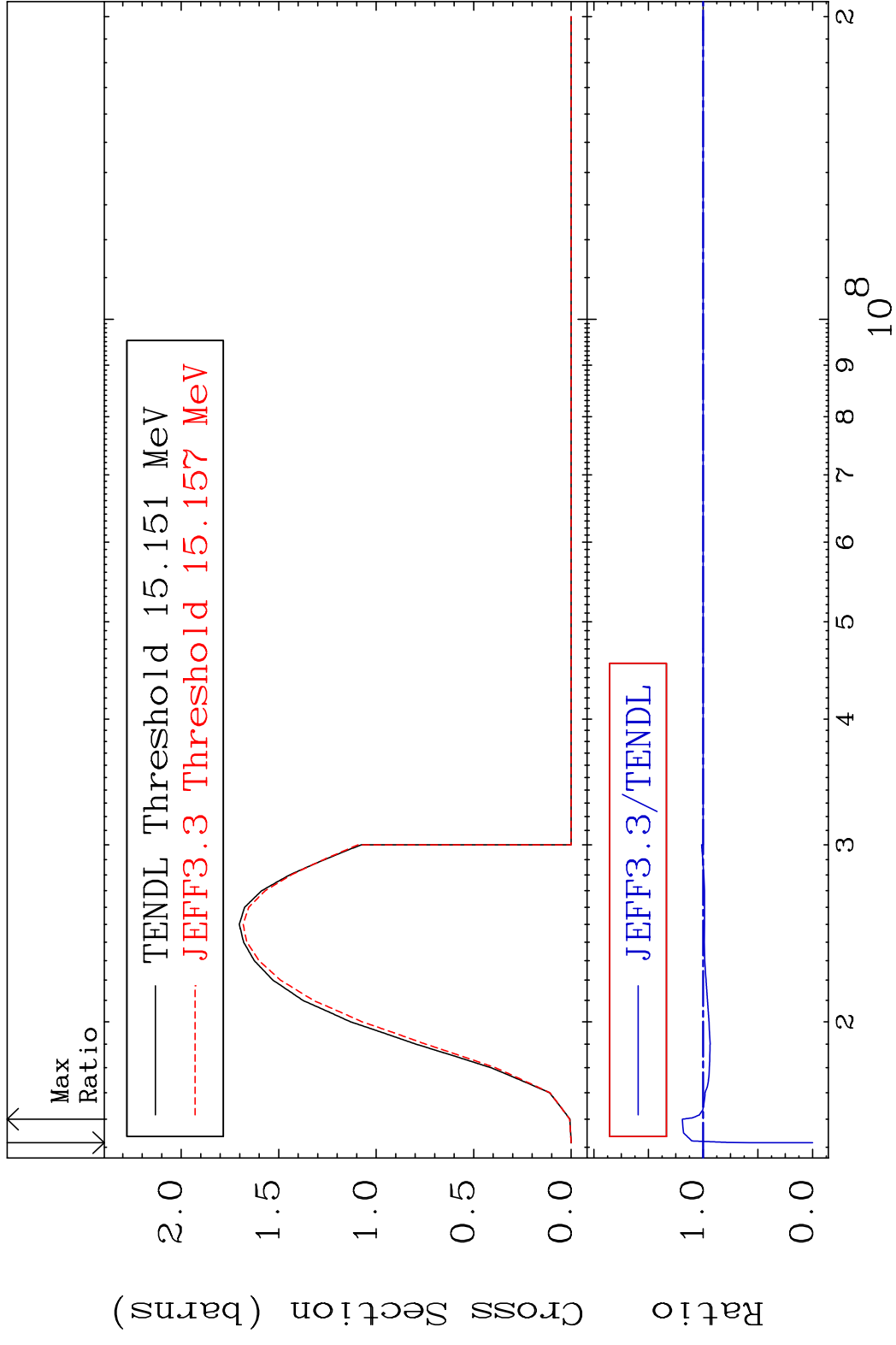


MAT 8122

(n,3n)

81-Tl-202

Cross Section -100.0 To 19.06 %

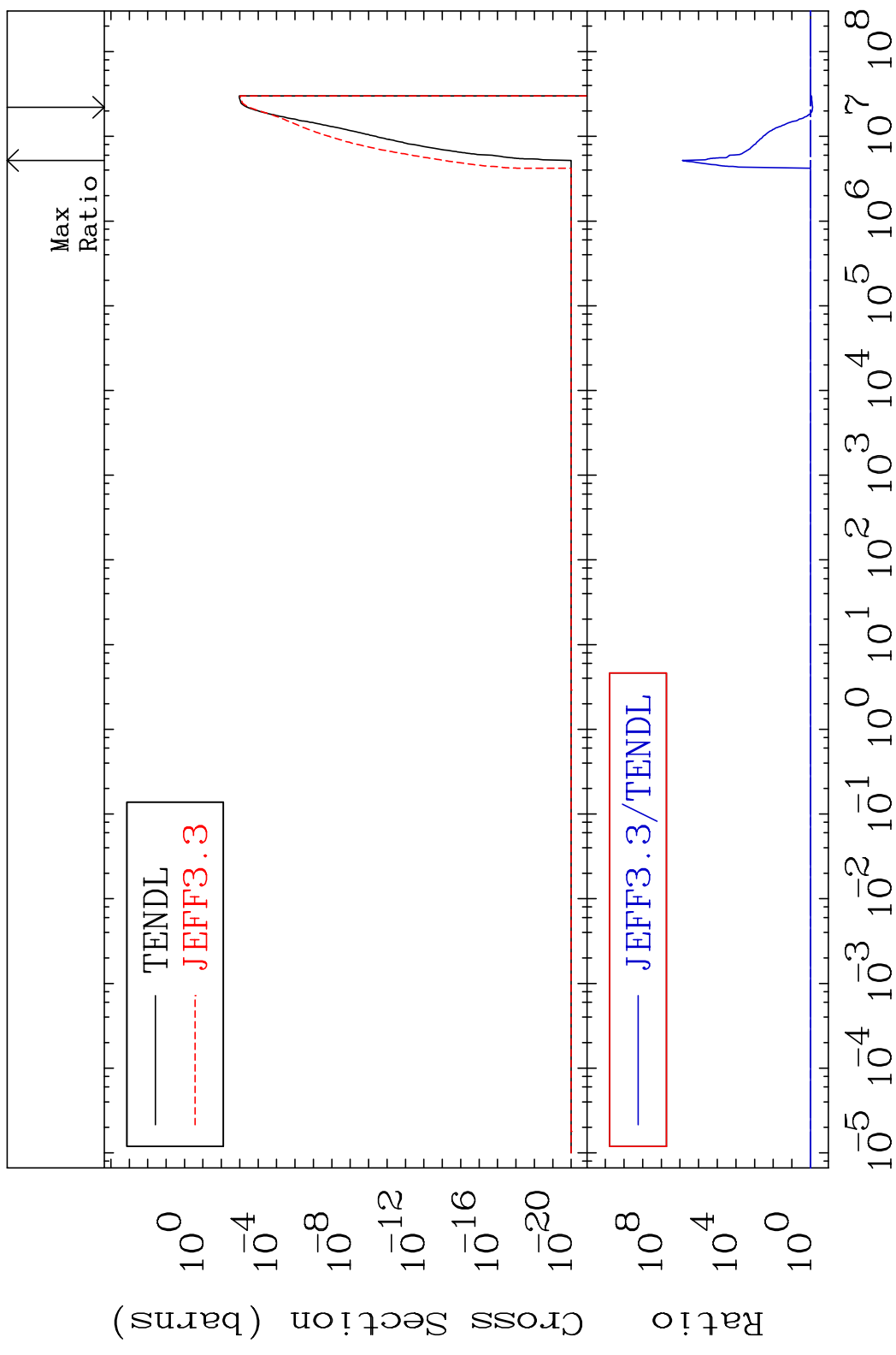


MAT 8122

(n, n') α

81-T1-202

Cross Section -21.78 To 9999. %

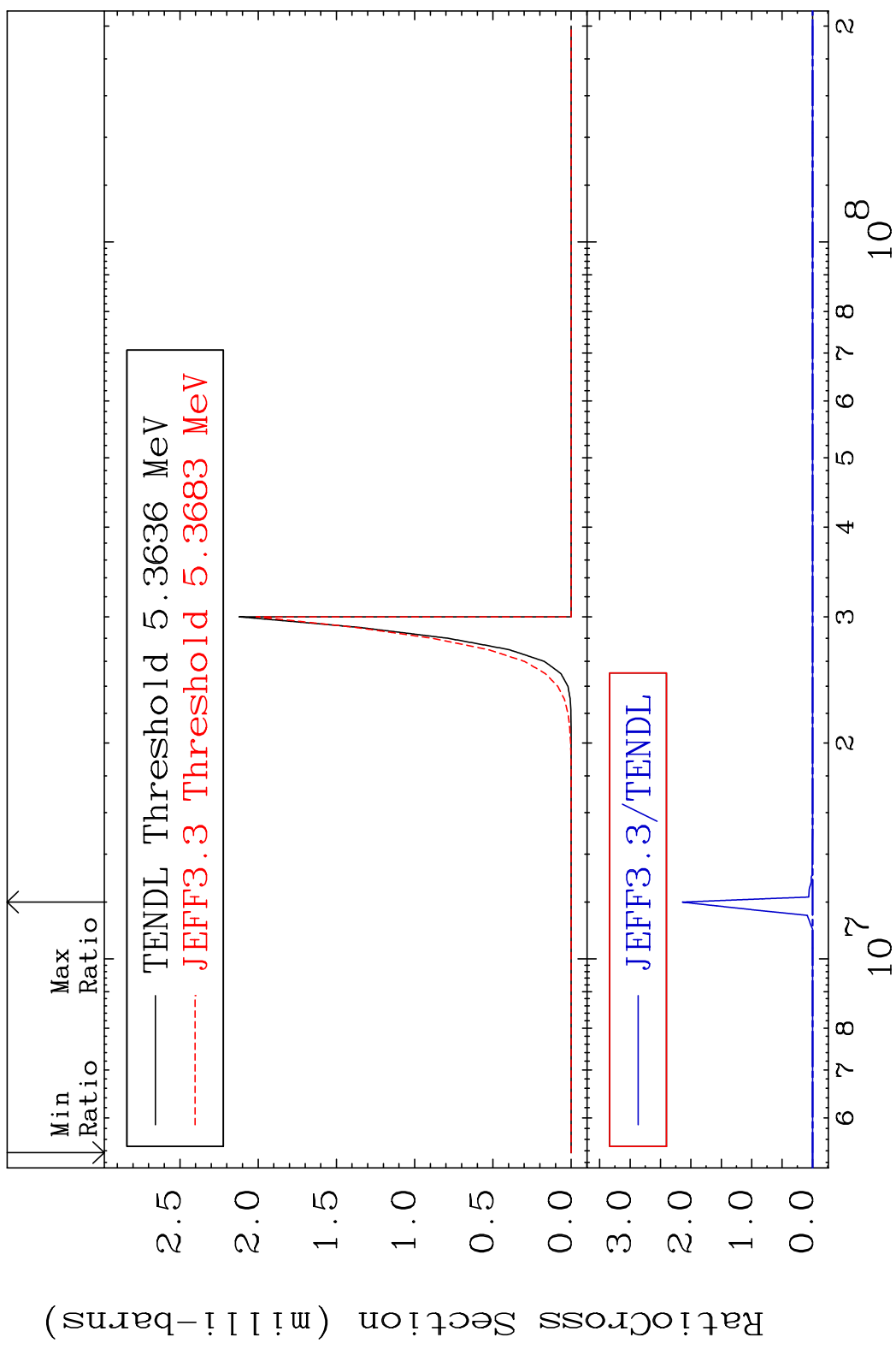


MAT 8122

(n,2n) α

81-Tl-202

Cross Section -100.0 To 9999. %

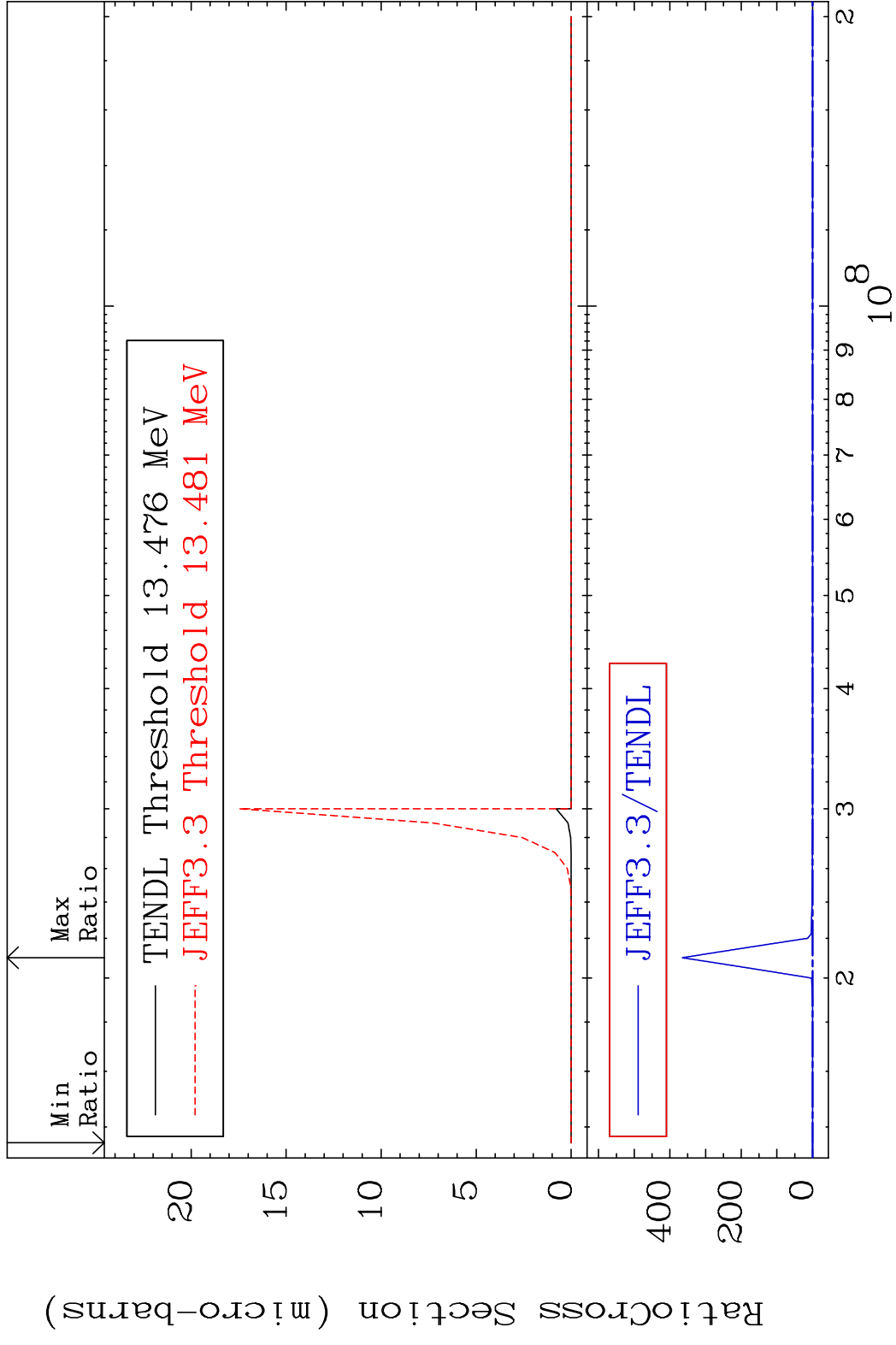


MAT 8122

(n,3n) α

81-Tl-202

Cross Section -100.0 To 9999. %

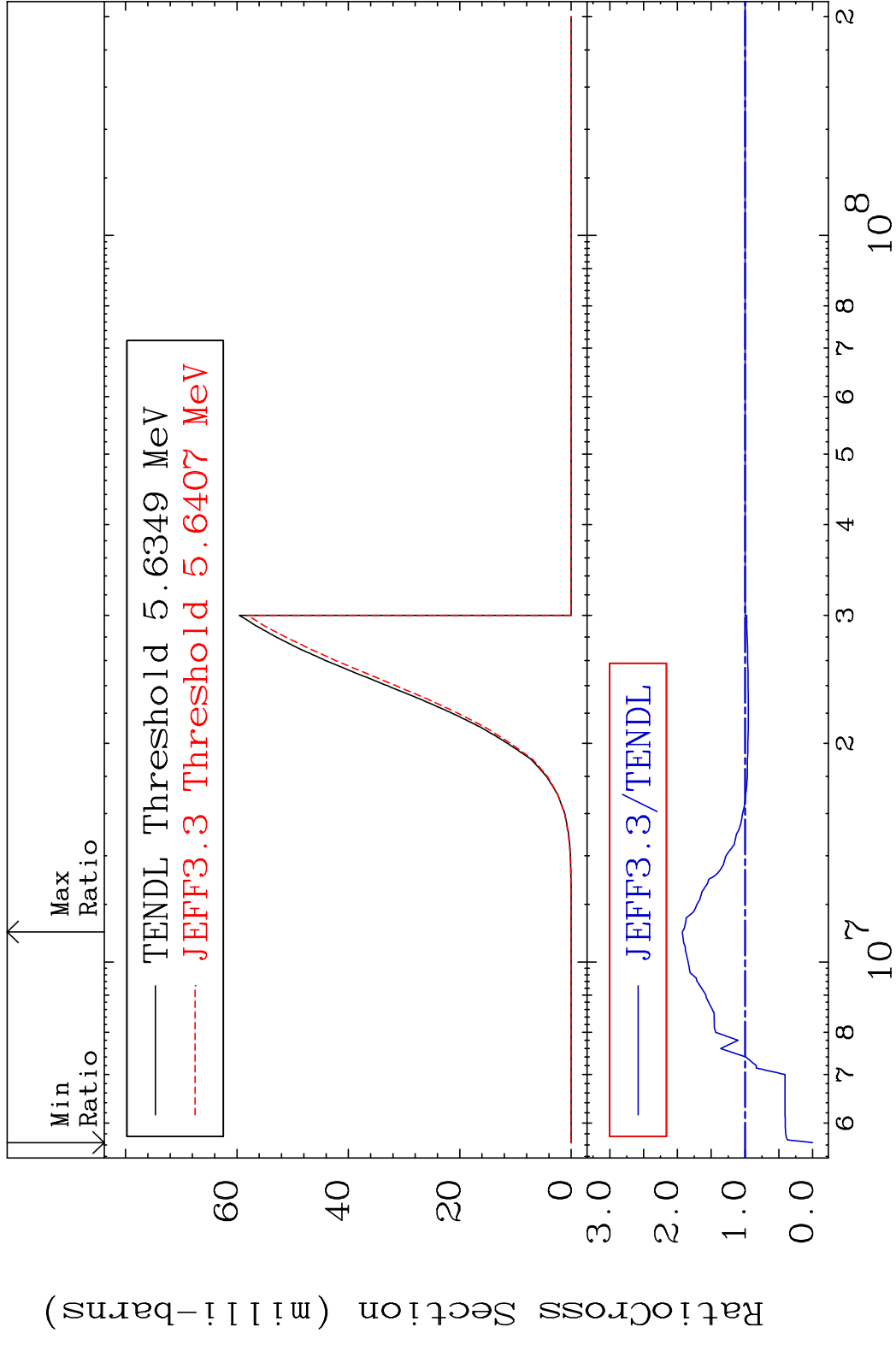


10

Incident Energy (eV)

81-Tl-202

MAT 8122 (n, n') p 81-Tl-202
 Cross Section -100.0 To 92.74 %

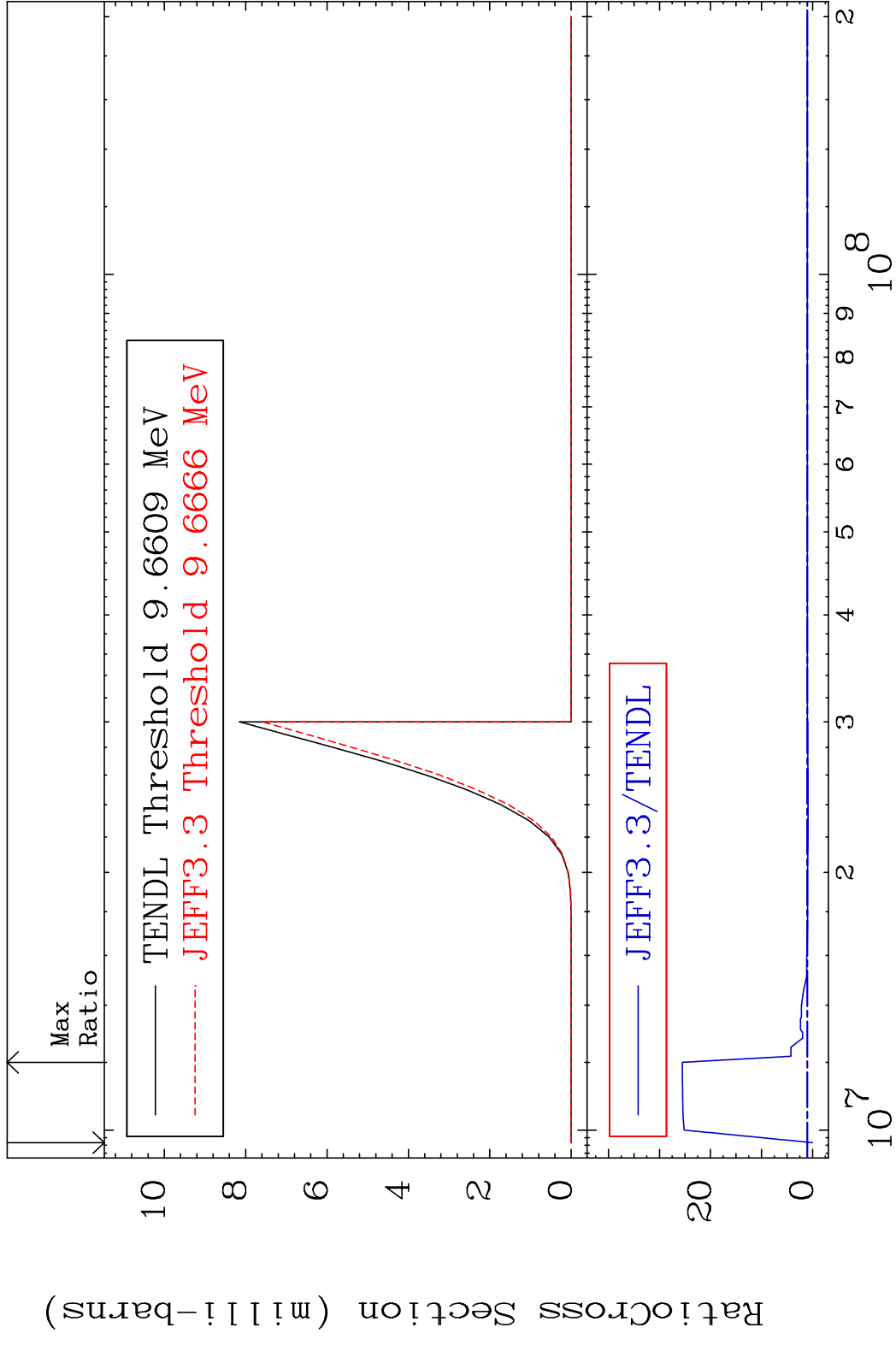


MAT 8122

(n, n') d

81-Tl-202

Cross Section -100.0 To 2452. %



12

Incident Energy (eV)

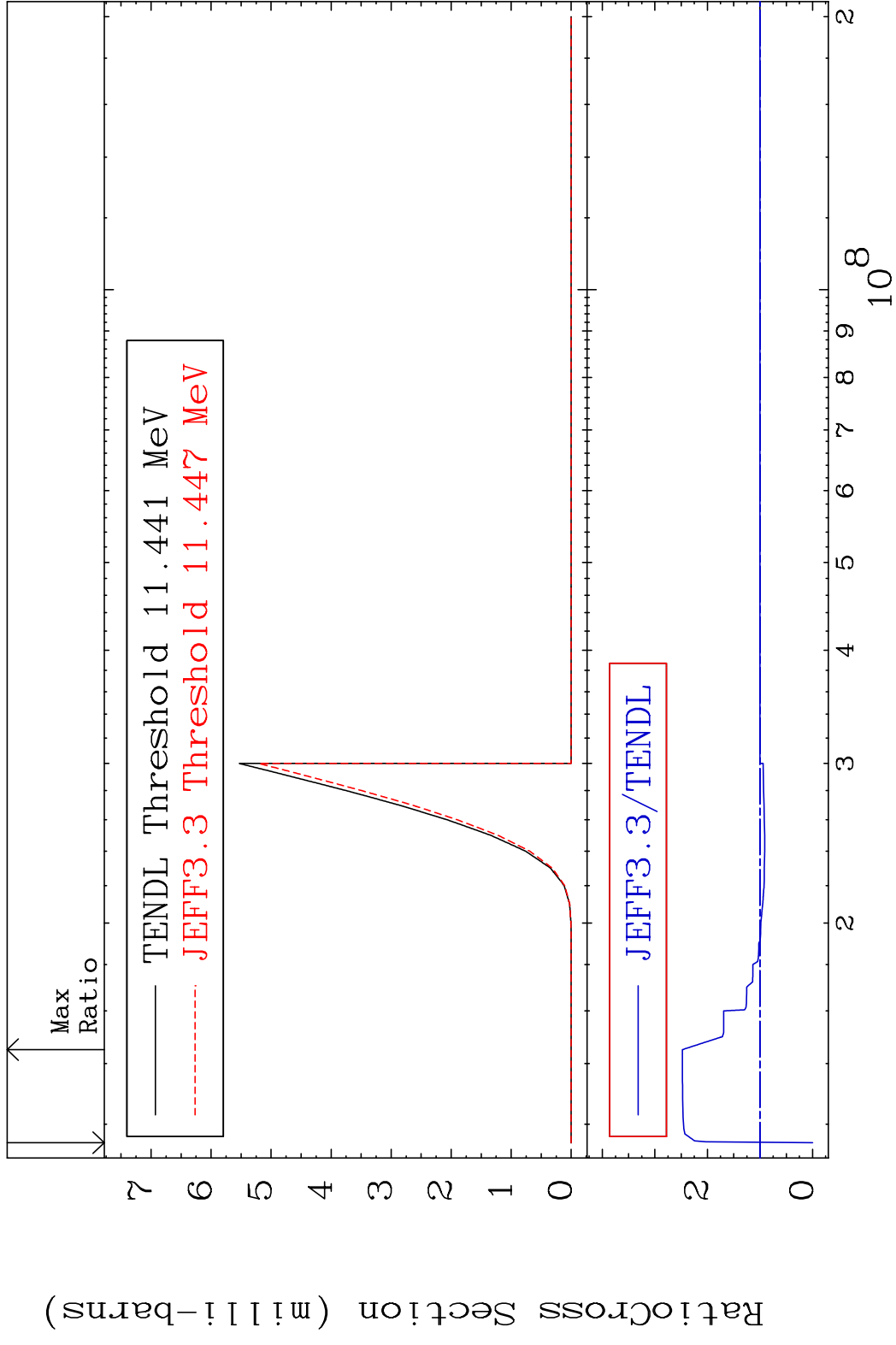
81-Tl-202

MAT 8122

(n, n') t

81-Tl-202

Cross Section -100.0 To 147.7 %

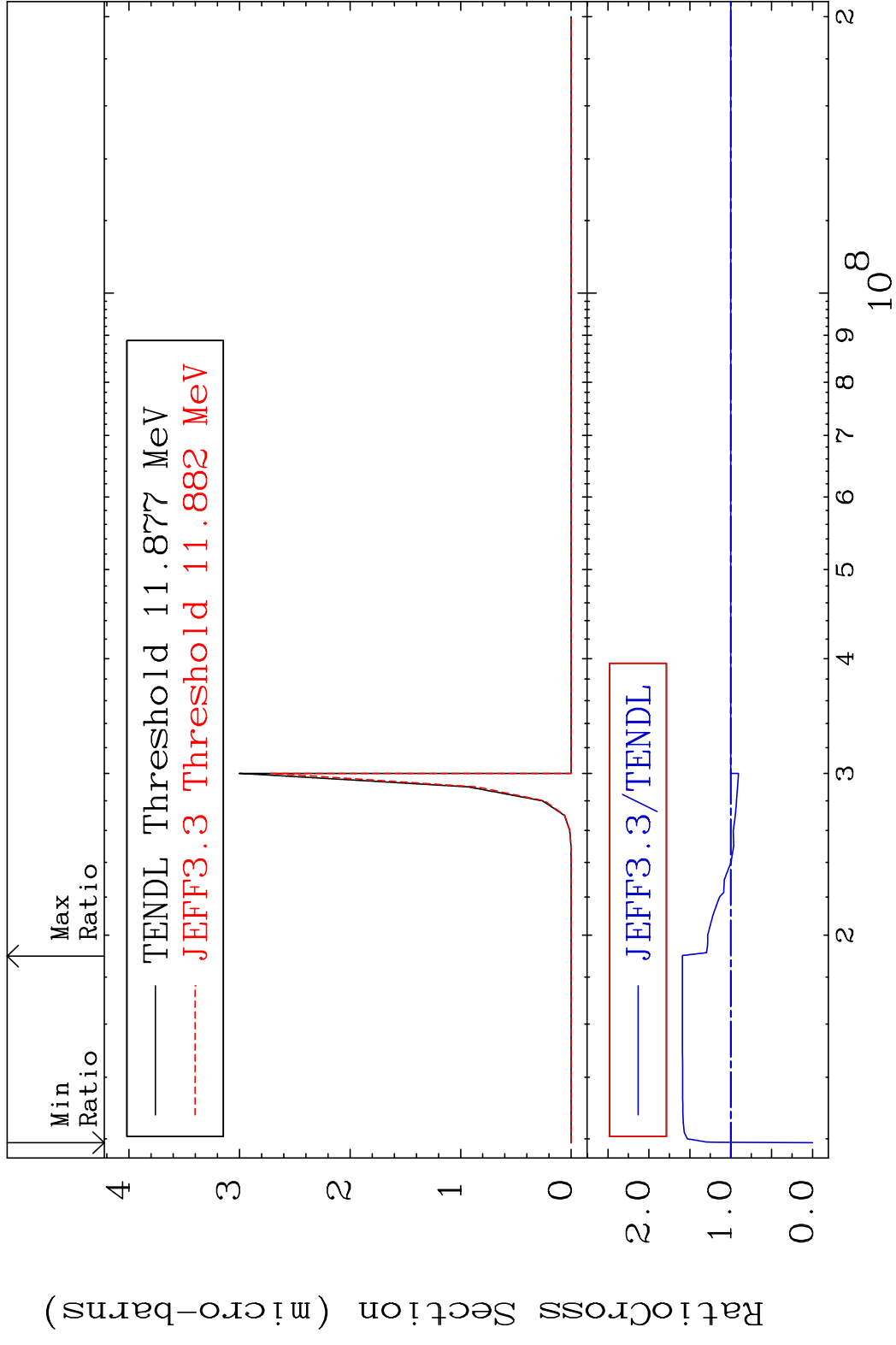


MAT 8122

(n,n') He-3

81-T1-202

Cross Section -100.0 To 59.12 %



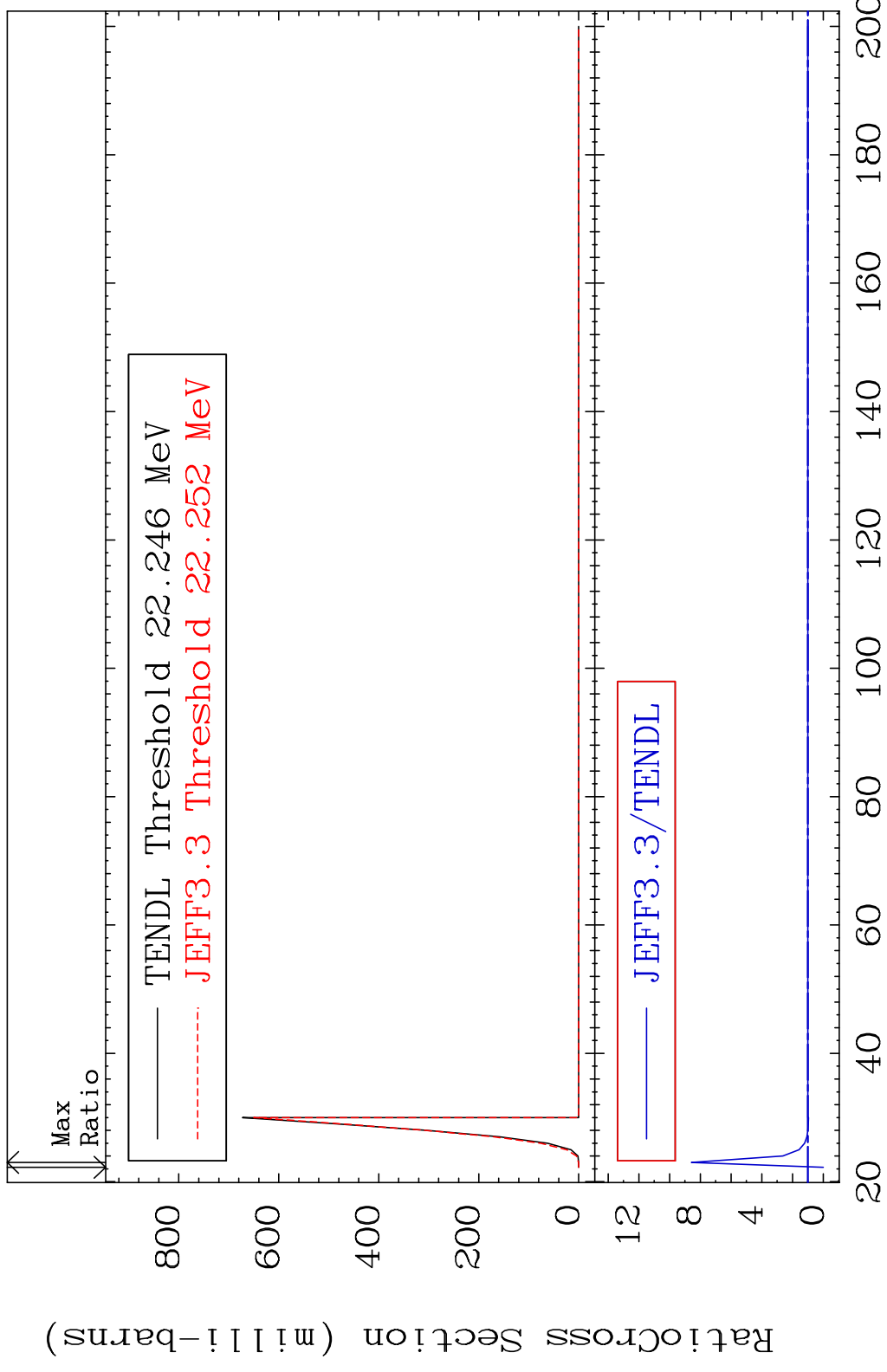
MAT 8122

(n,4n)

81-Tl-202

Cross Section

-100.0 To 758.7 %

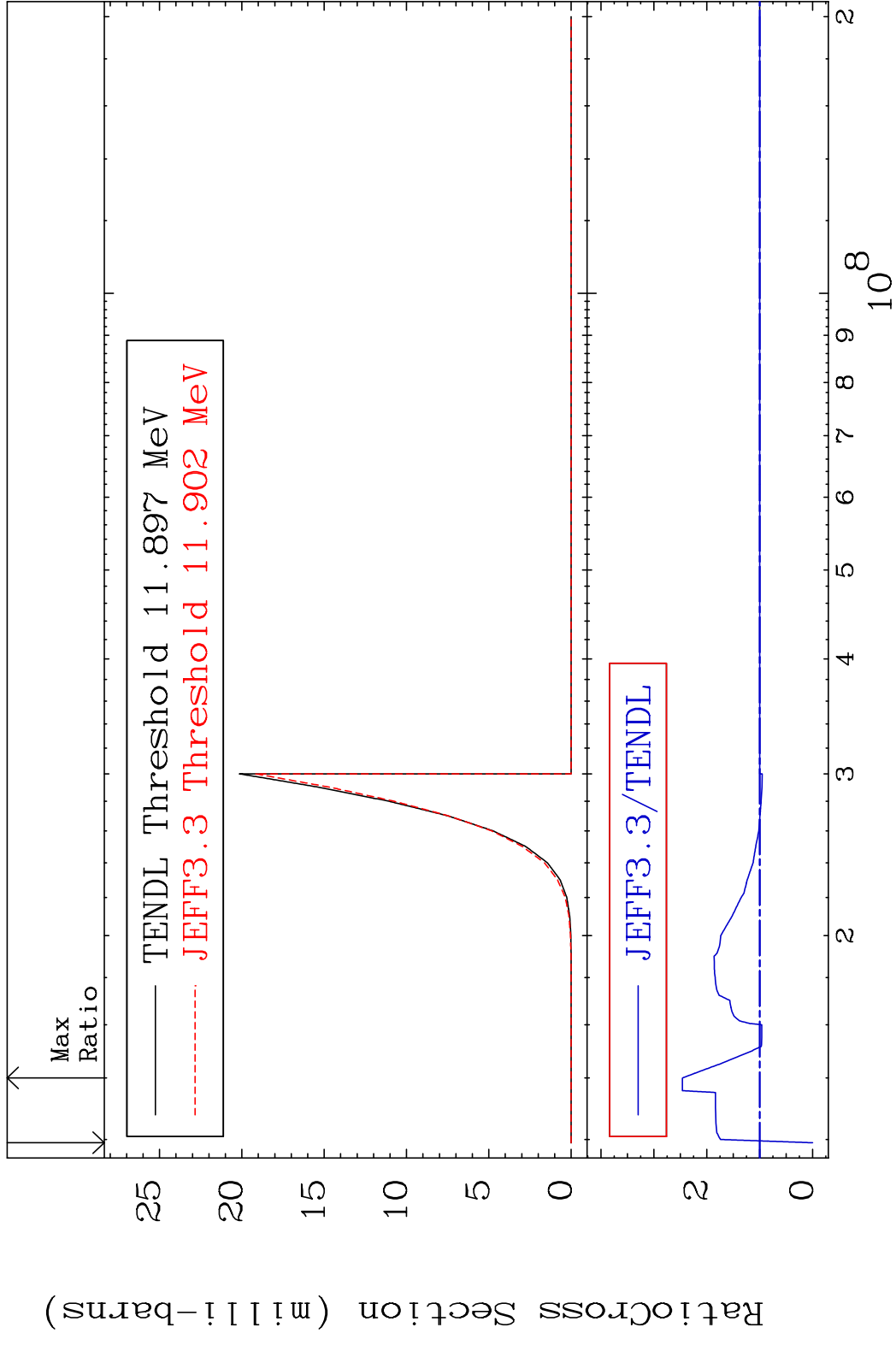


MAT 8122

(n,2n) p

81-Tl-202

Cross Section -100.0 To 146.2 %

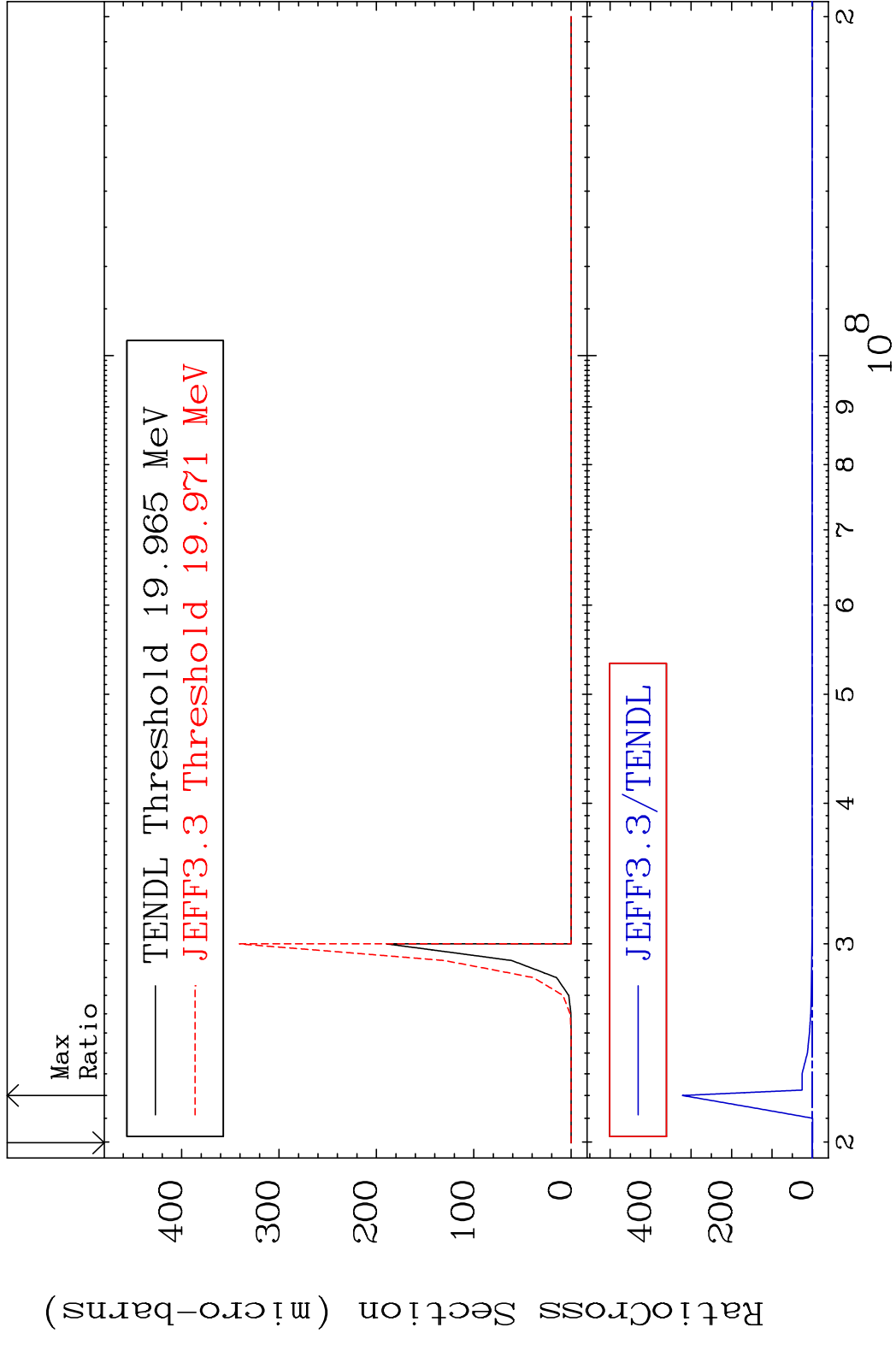


MAT 8122

(n,3n) p

81-Tl-202

Cross Section -100.0 To 9999. %



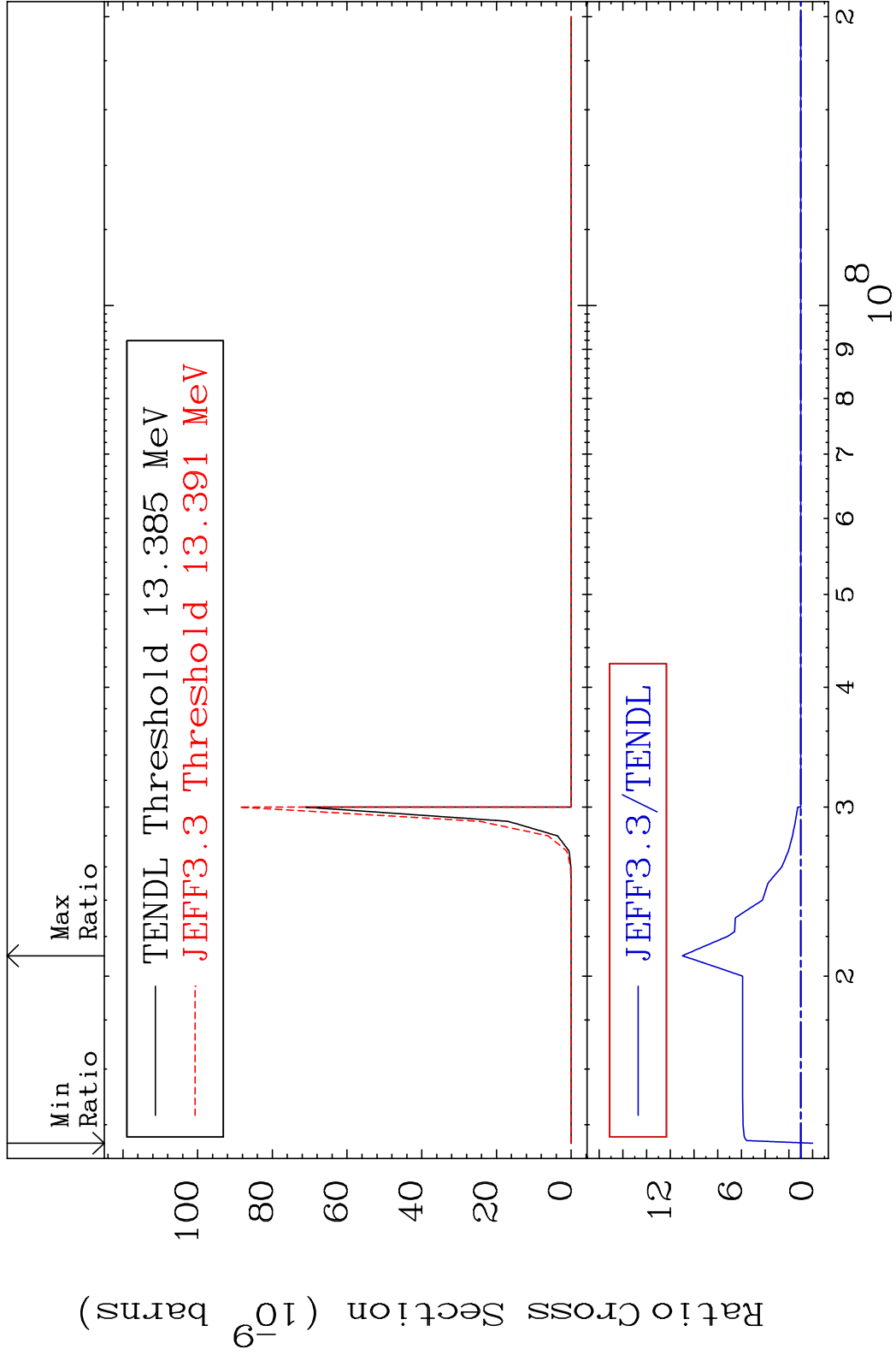
MAT 8122

(n,2n) p

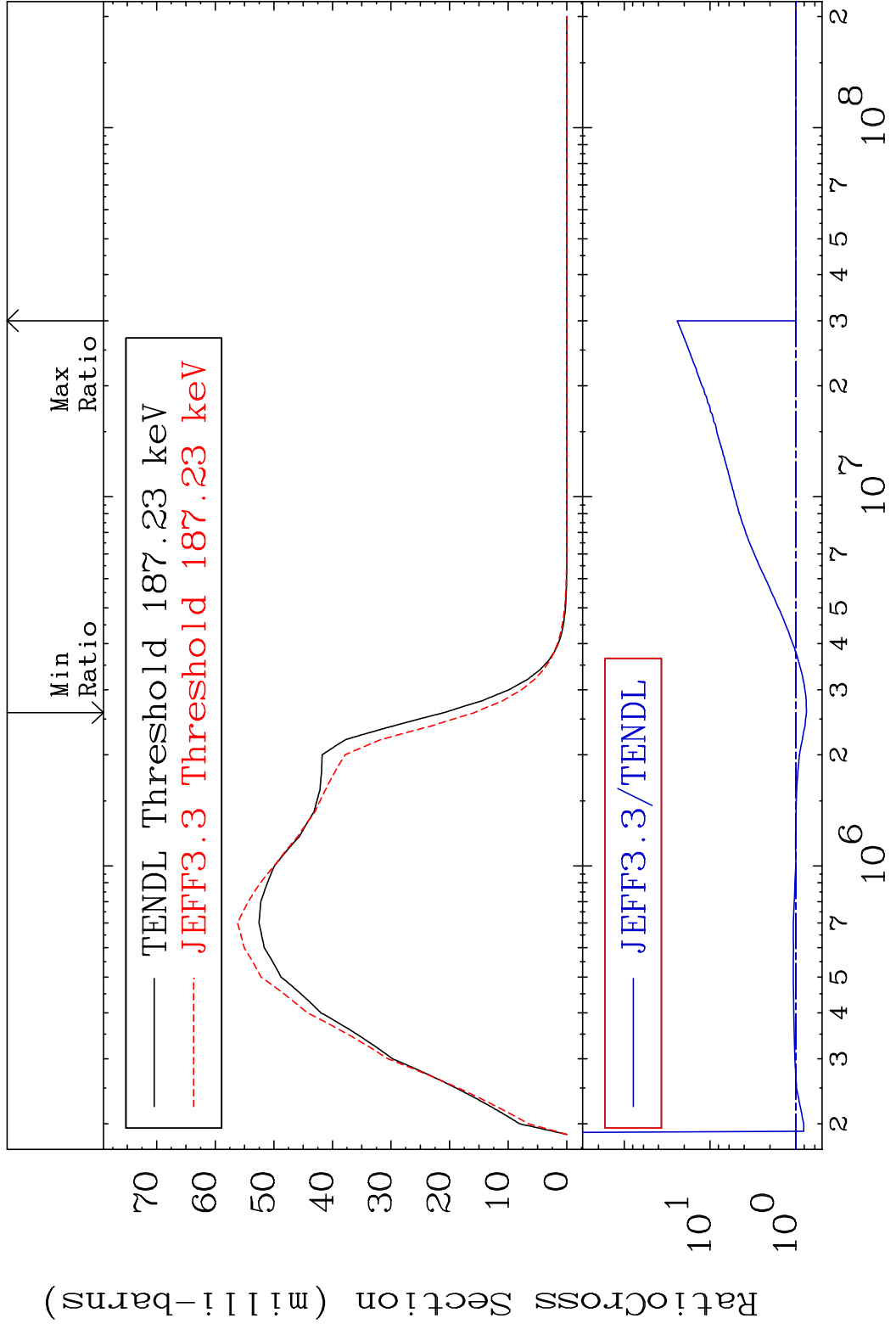
81-Tl-202

Cross Section

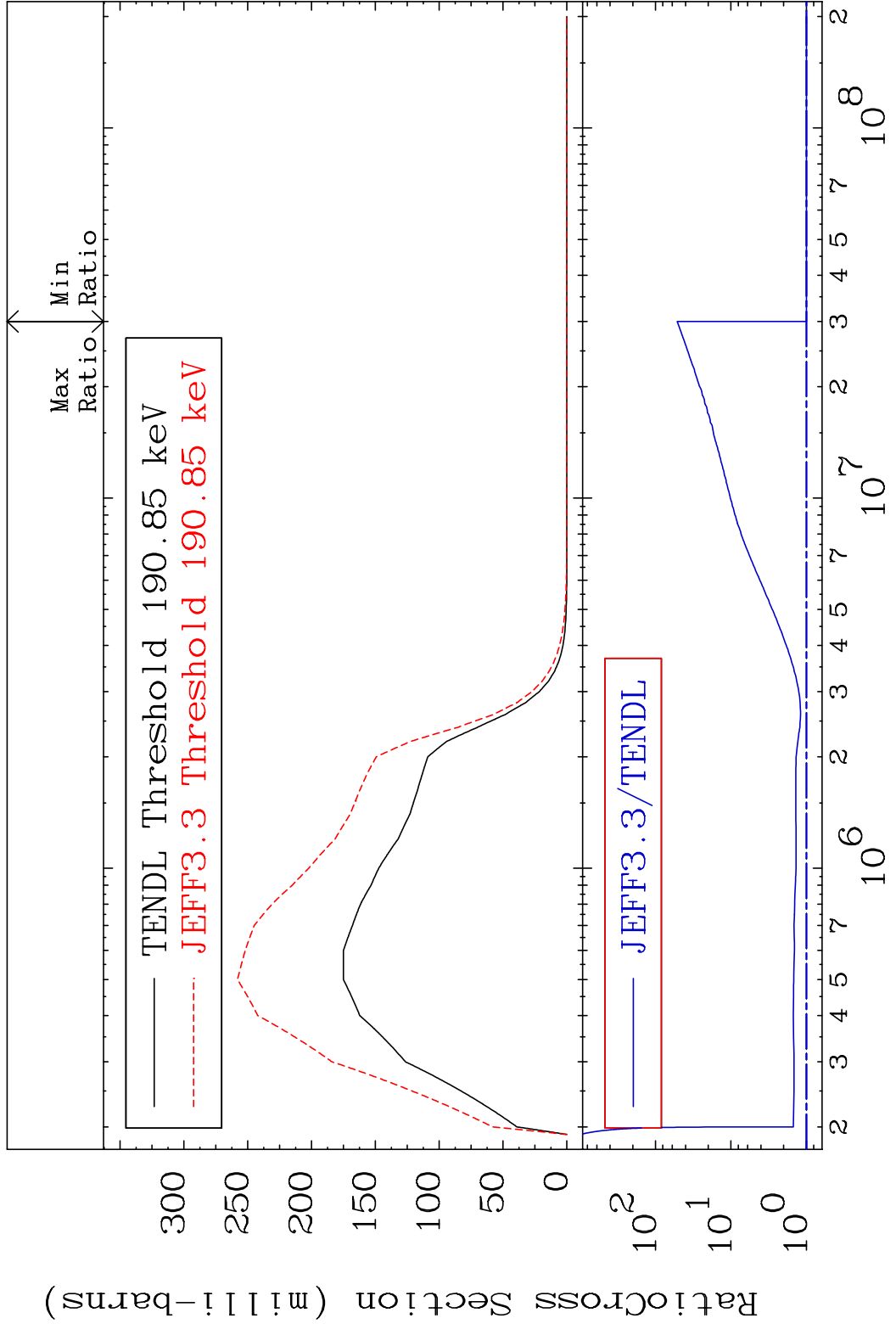
-100.0 To 998.4 %



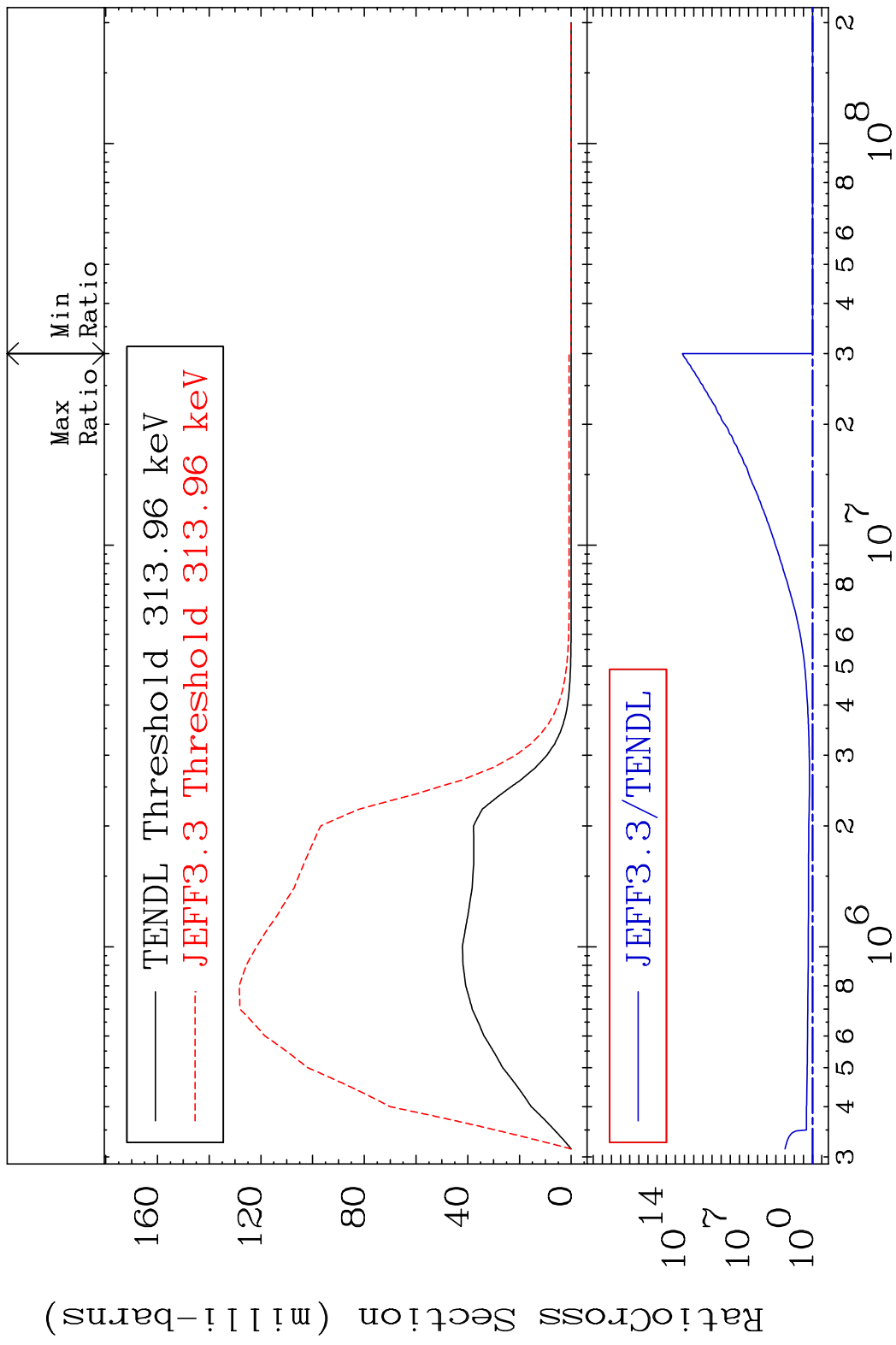
MAT 8122 MT= 51 (n, n') Level 81-Tl-202
 Cross Section -24.72 To 2321. %



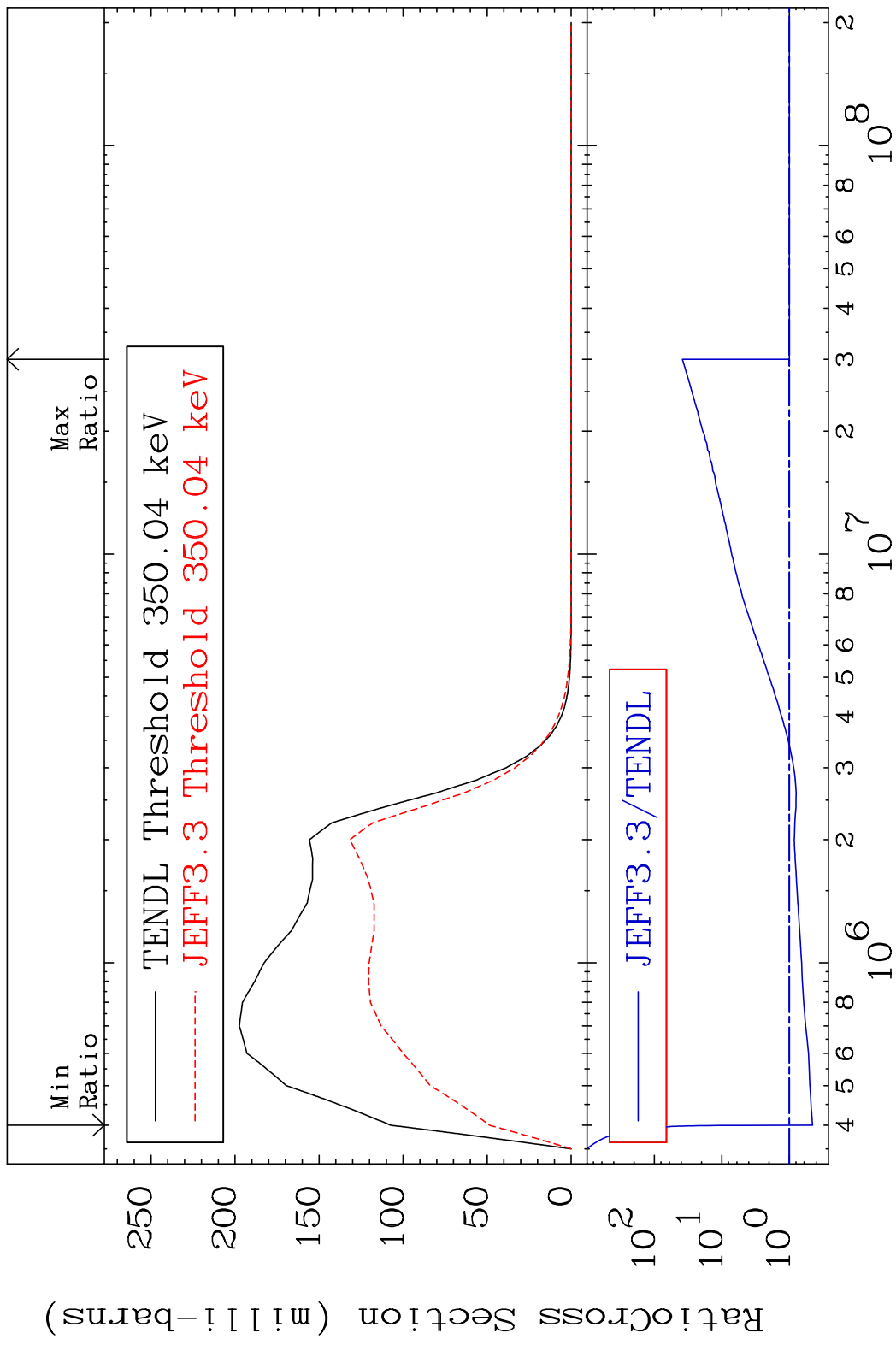
MAT 8122 MT= 52 (n,n') Level 81-Tl-202
 Cross Section 0.000 To 5062. %



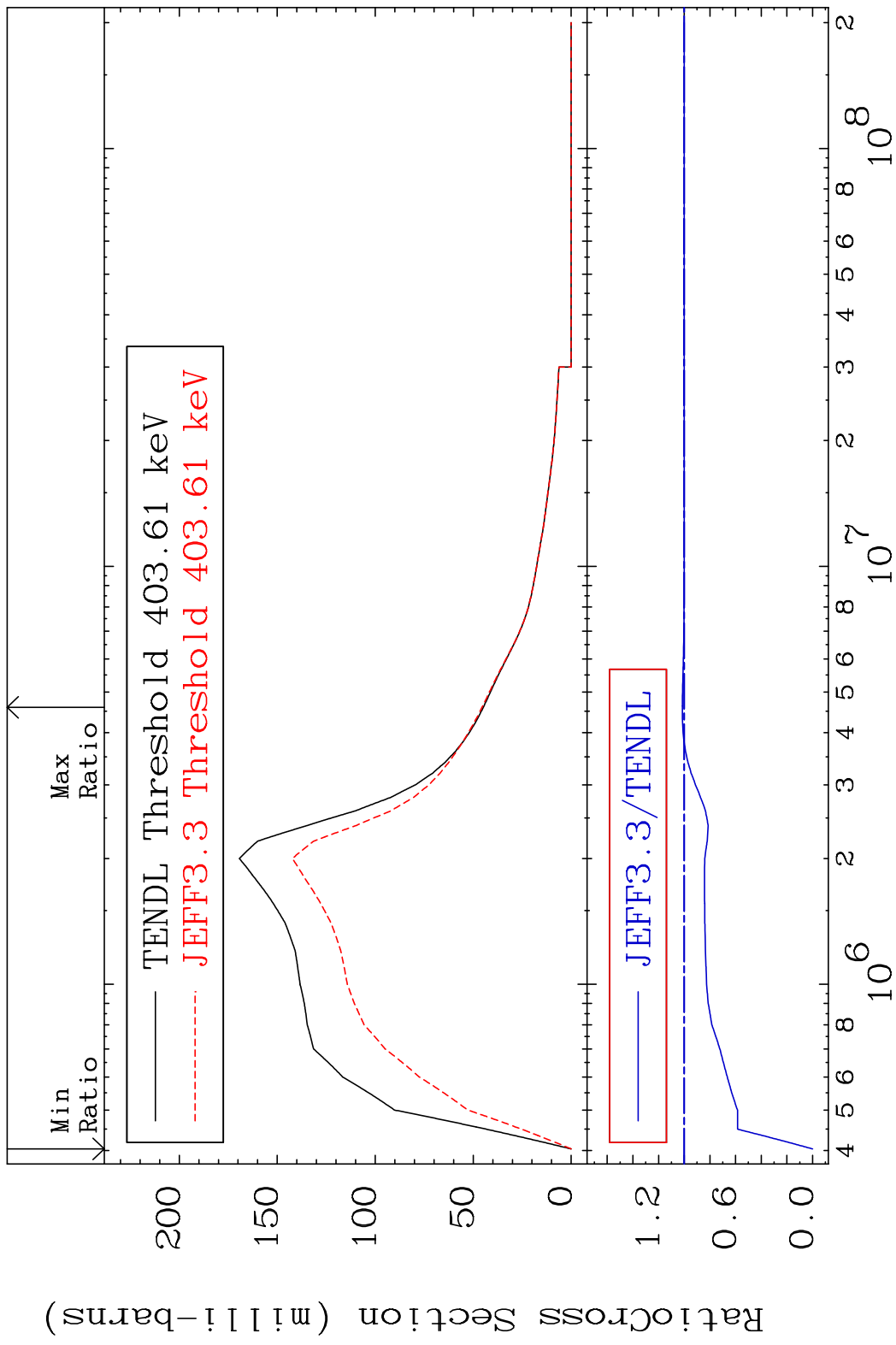
MAT 8122 MT= 53 (n, n') Level 81-Tl-202
 Cross Section 0.000 To 9999. %



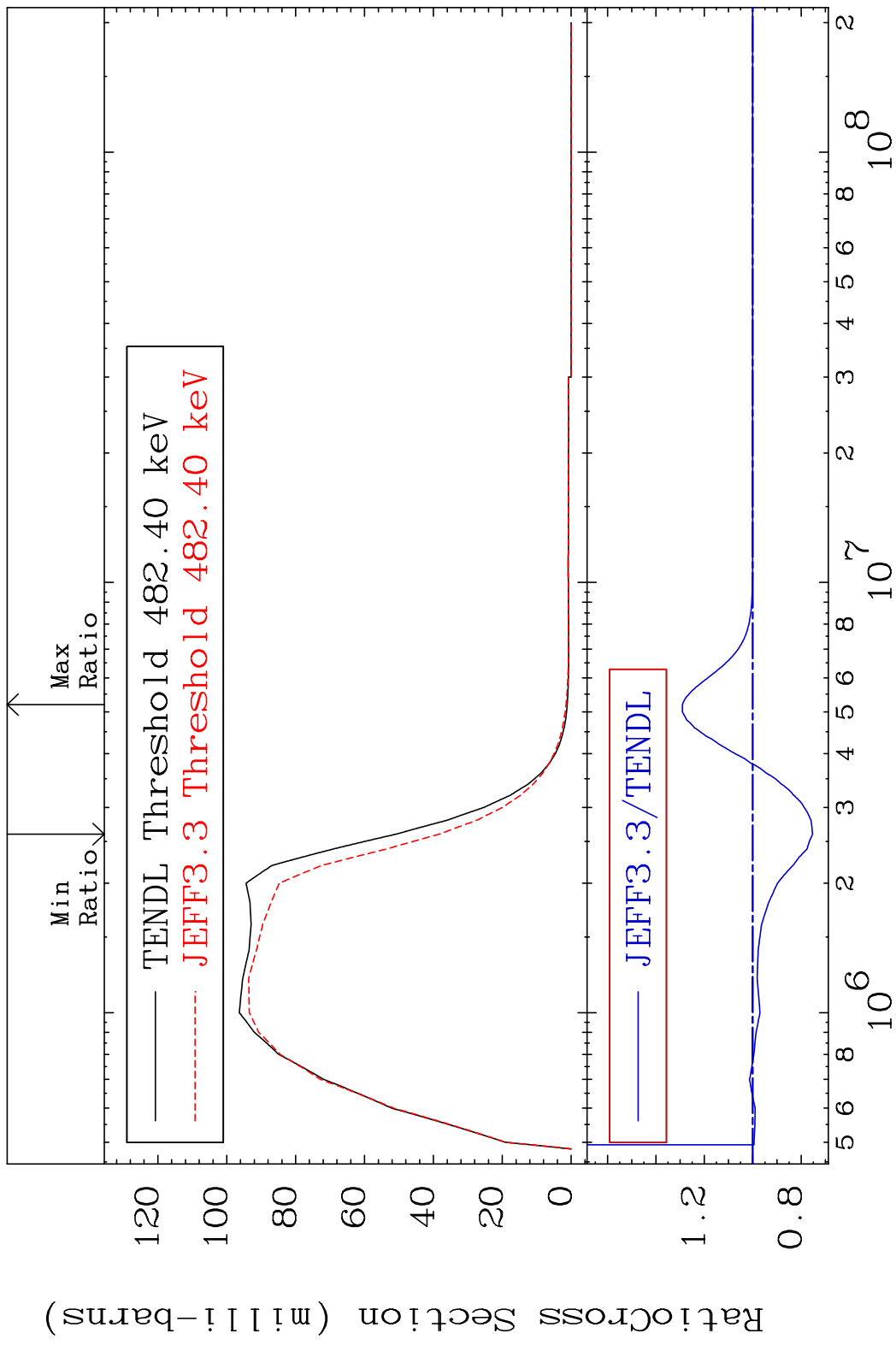
MAT 8122 MT= 54 (n,n') Level 81-Tl-202
 Cross Section -54.77 To 3753. %



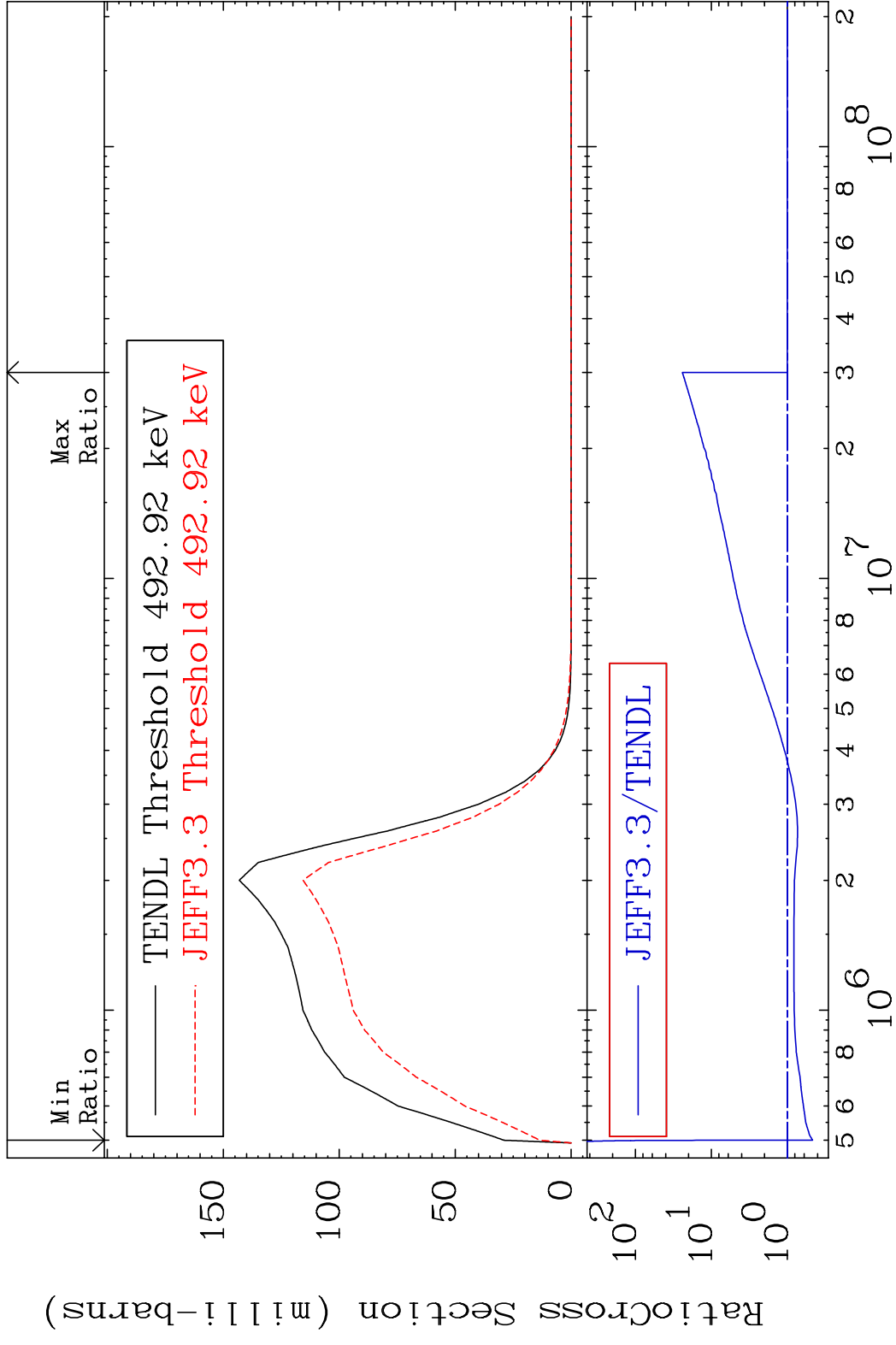
MAT 8122 MT= 55 (n, n') Level 81-Tl-202
 Cross Section -100.0 To 1.467 %



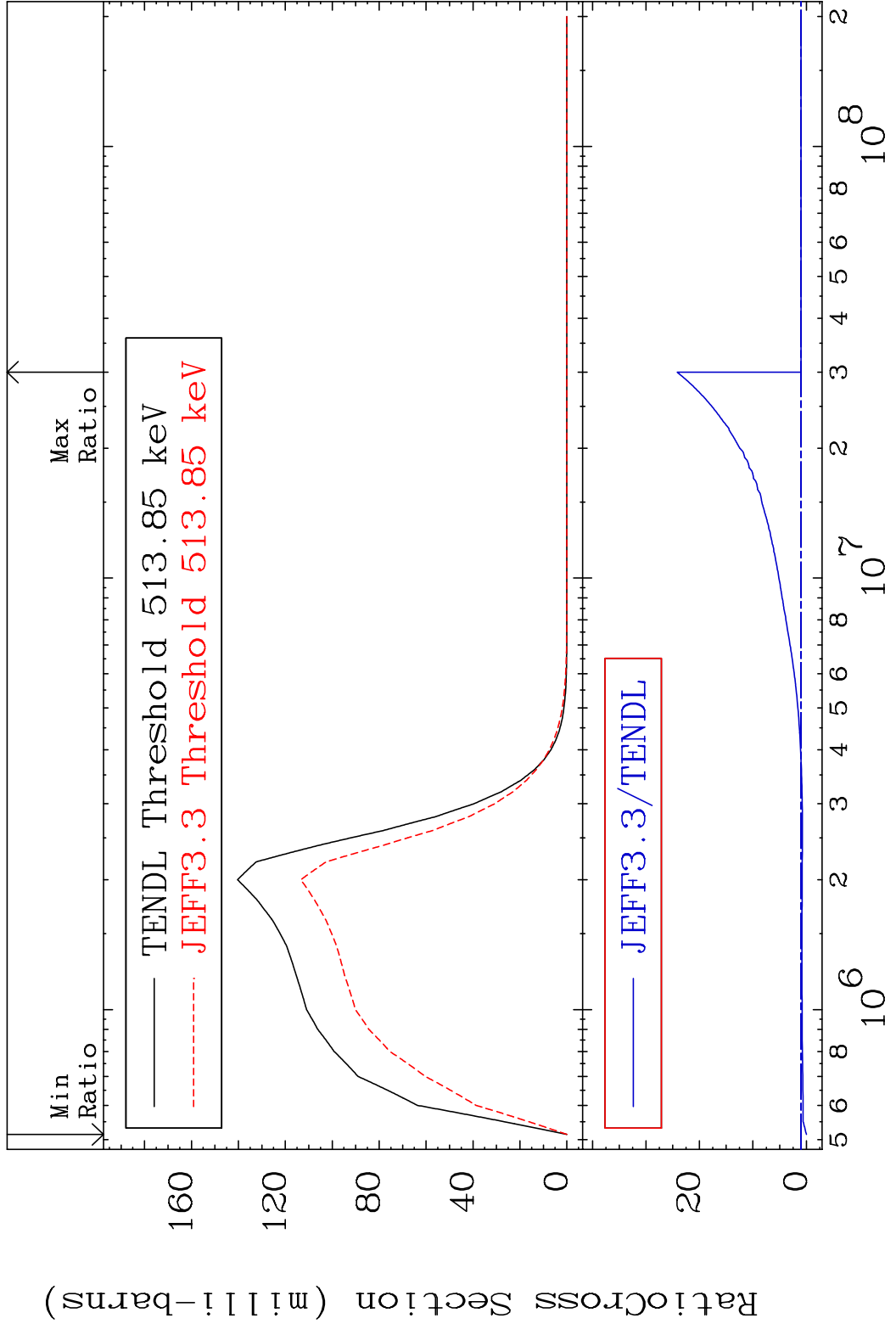
MAT 8122 MT= 56 (n, n') Level 81-Tl-202
 Cross Section -24.71 To 29.07 %



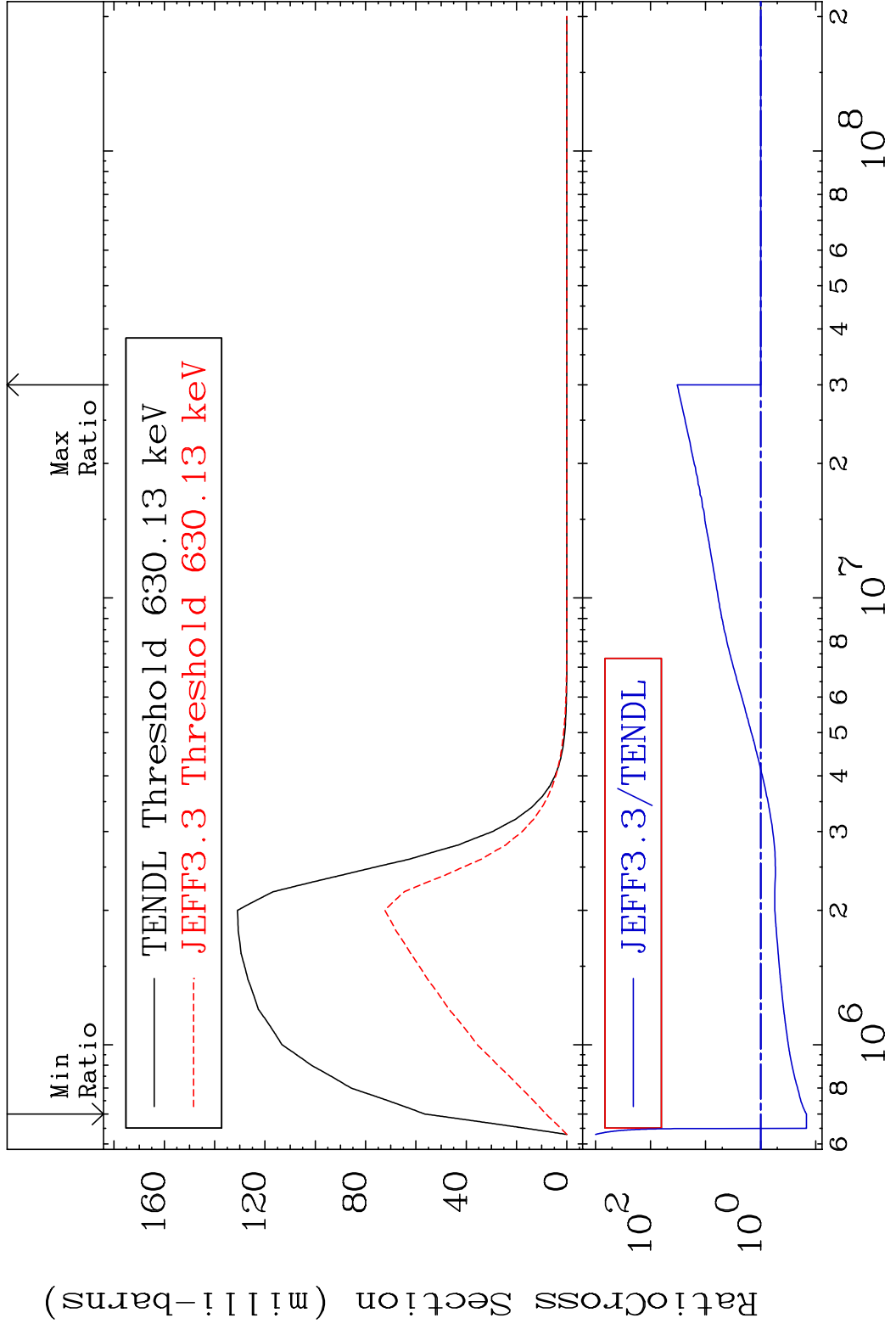
MAT 8122 MT= 57 (n,n') Level 81-Tl-202
 Cross Section -53.40 To 2316. %



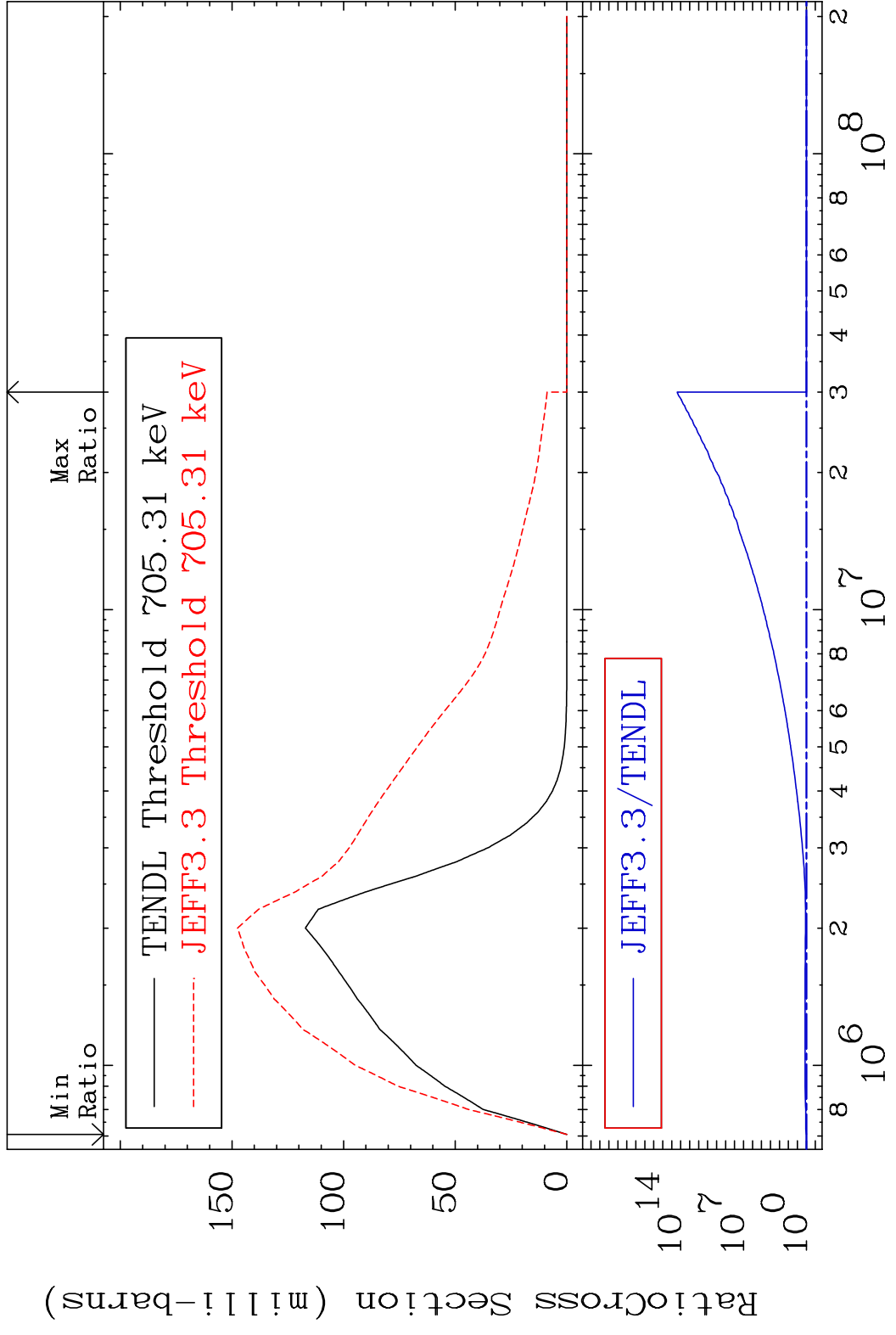
MAT 8122 MT= 58 (n, n') Level 81-Tl-202
 Cross Section -100.0 To 2316. %



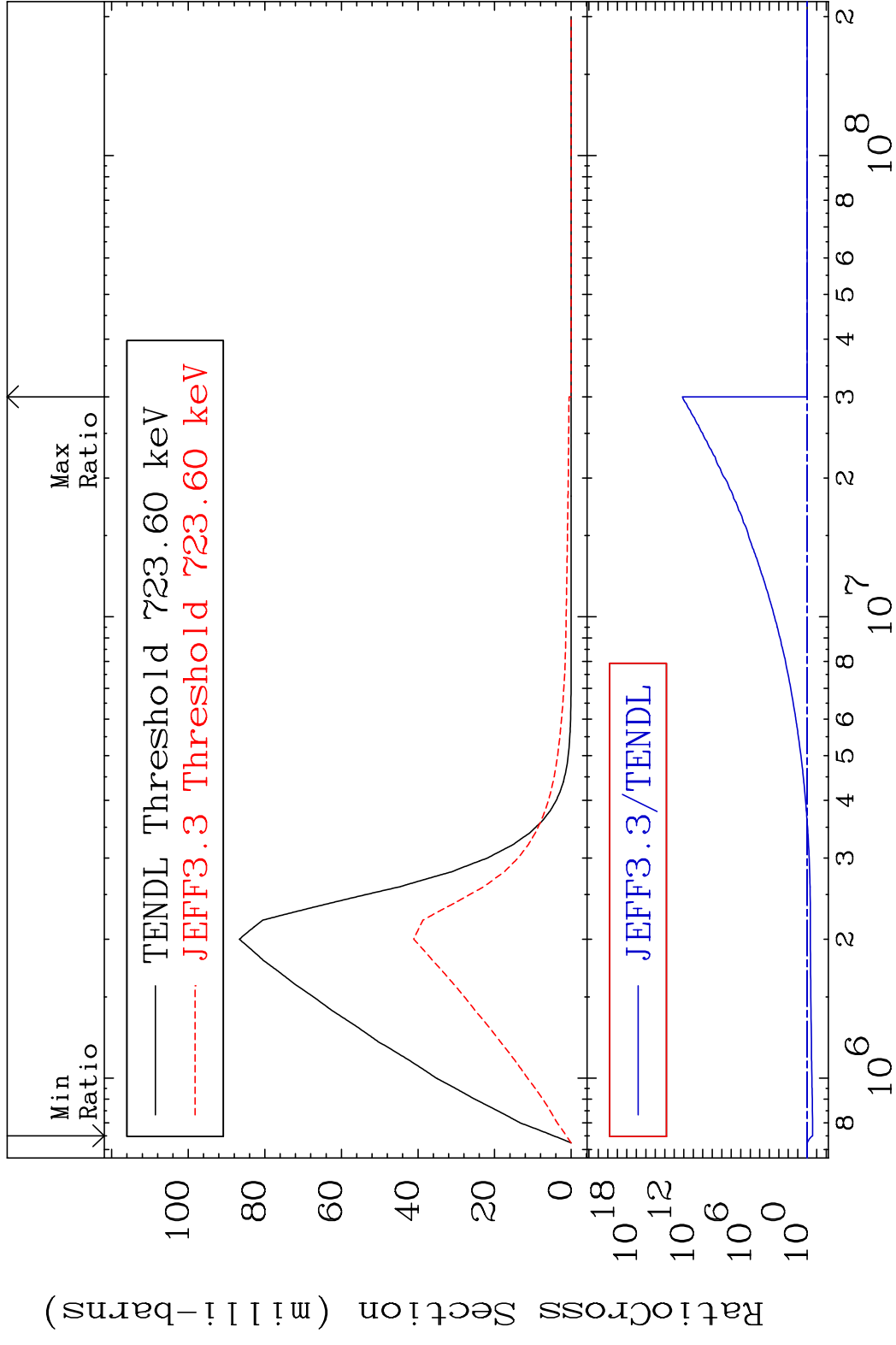
MAT 8122 MT= 59 (n, n') Level 81-Tl-202
 Cross Section -85.26 To 3187. %



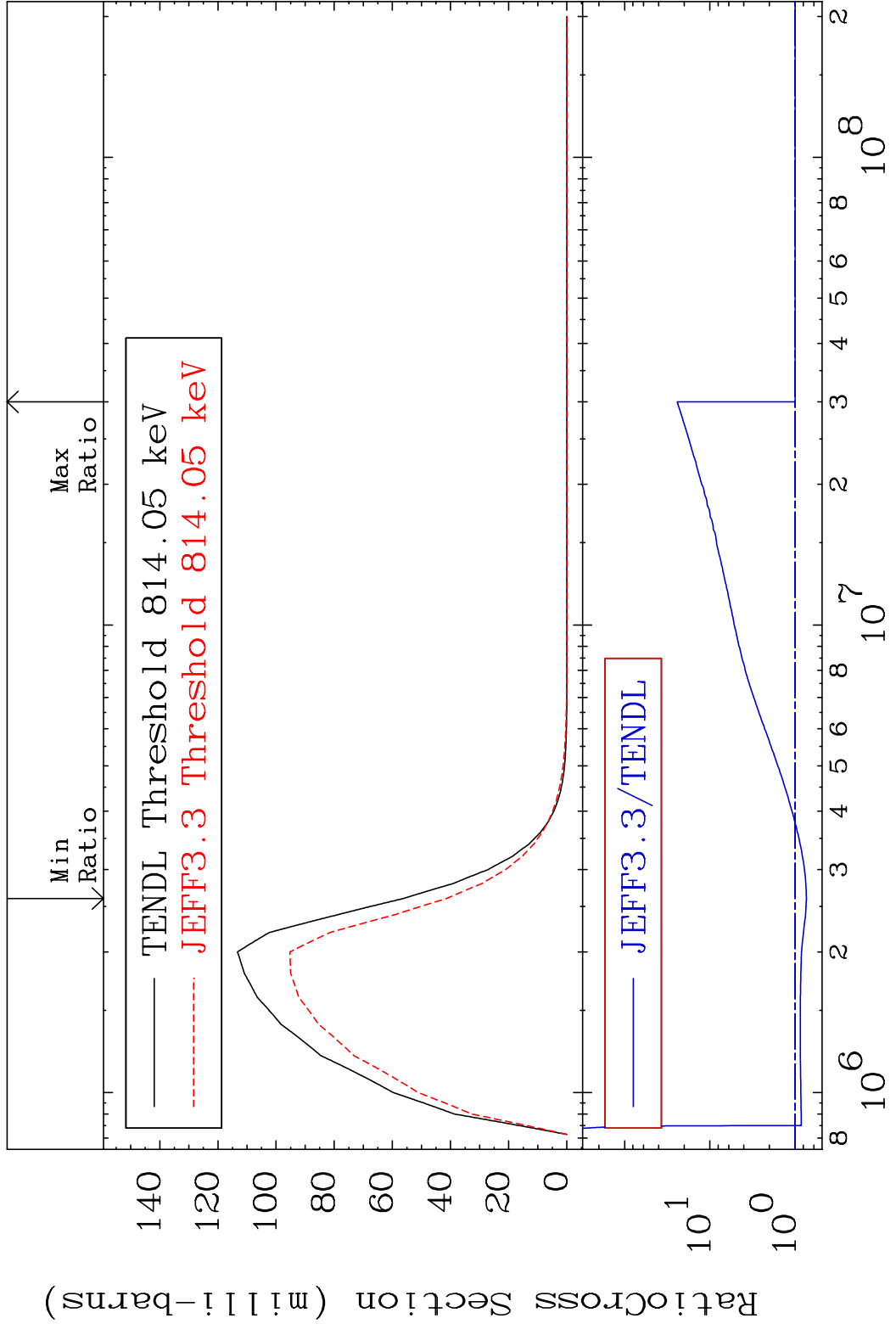
MAT 8122 MT= 60 (n, n') Level 81-Tl-202
 Cross Section 0.000 To 9999. %



MAT 8122 MT= 61 (n, n') Level 81-Tl-202
 Cross Section -72.51 To 9999. %

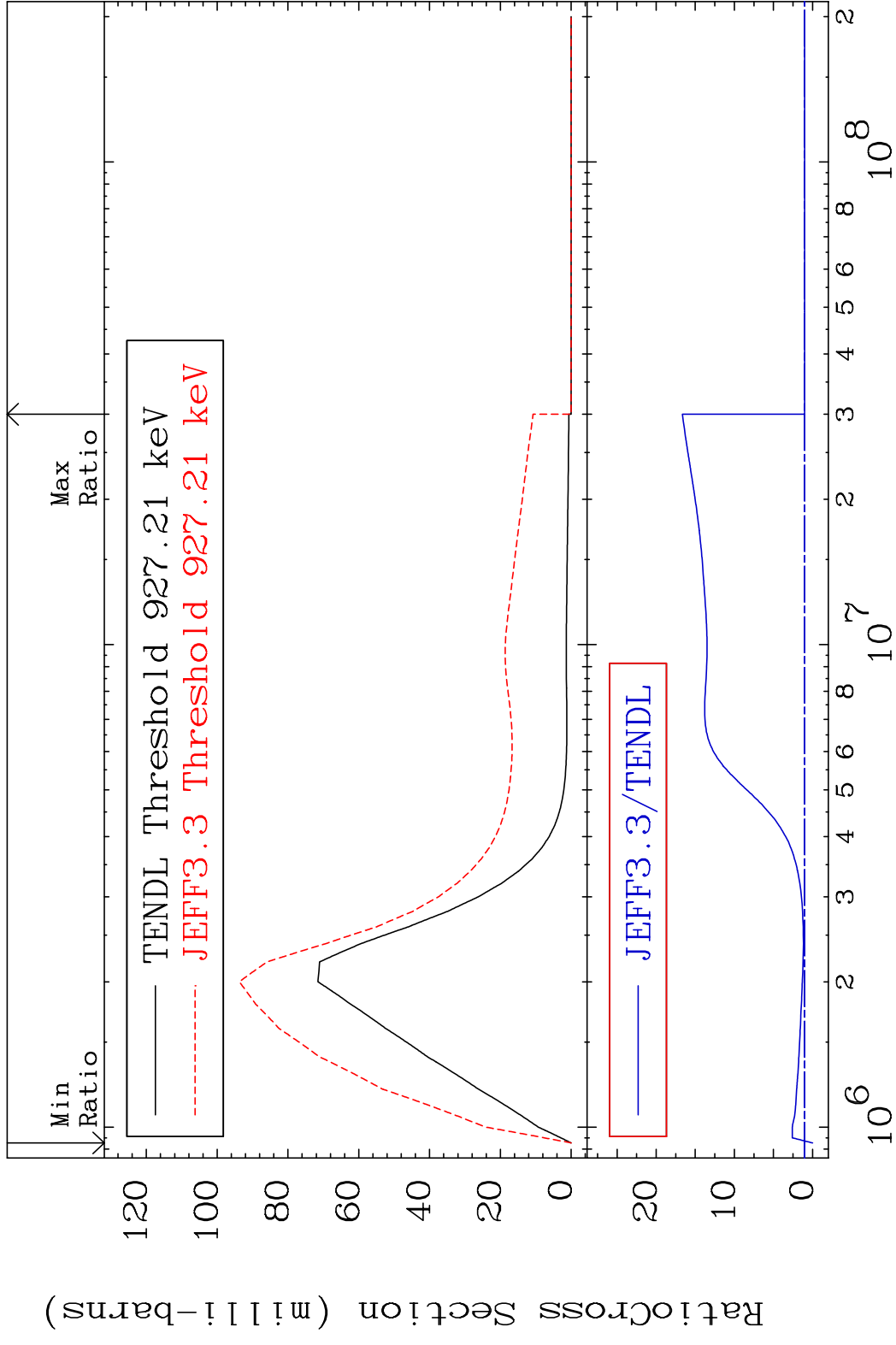


MAT 8122 MT= 62 (n, n') Level 81-Tl-202
 Cross Section -26.39 To 2318. %

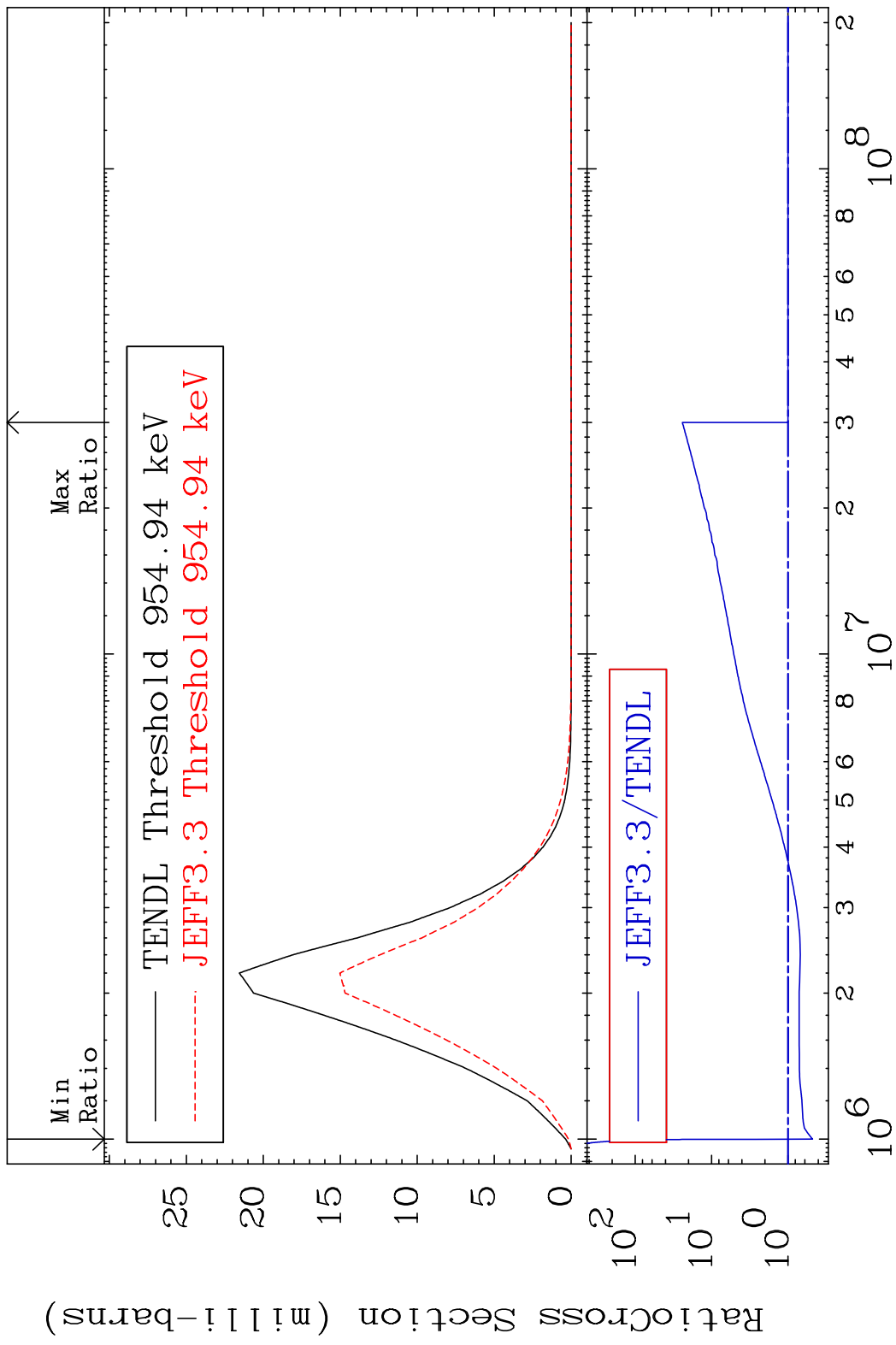


30 Incident Energy (eV) 81-Tl-202

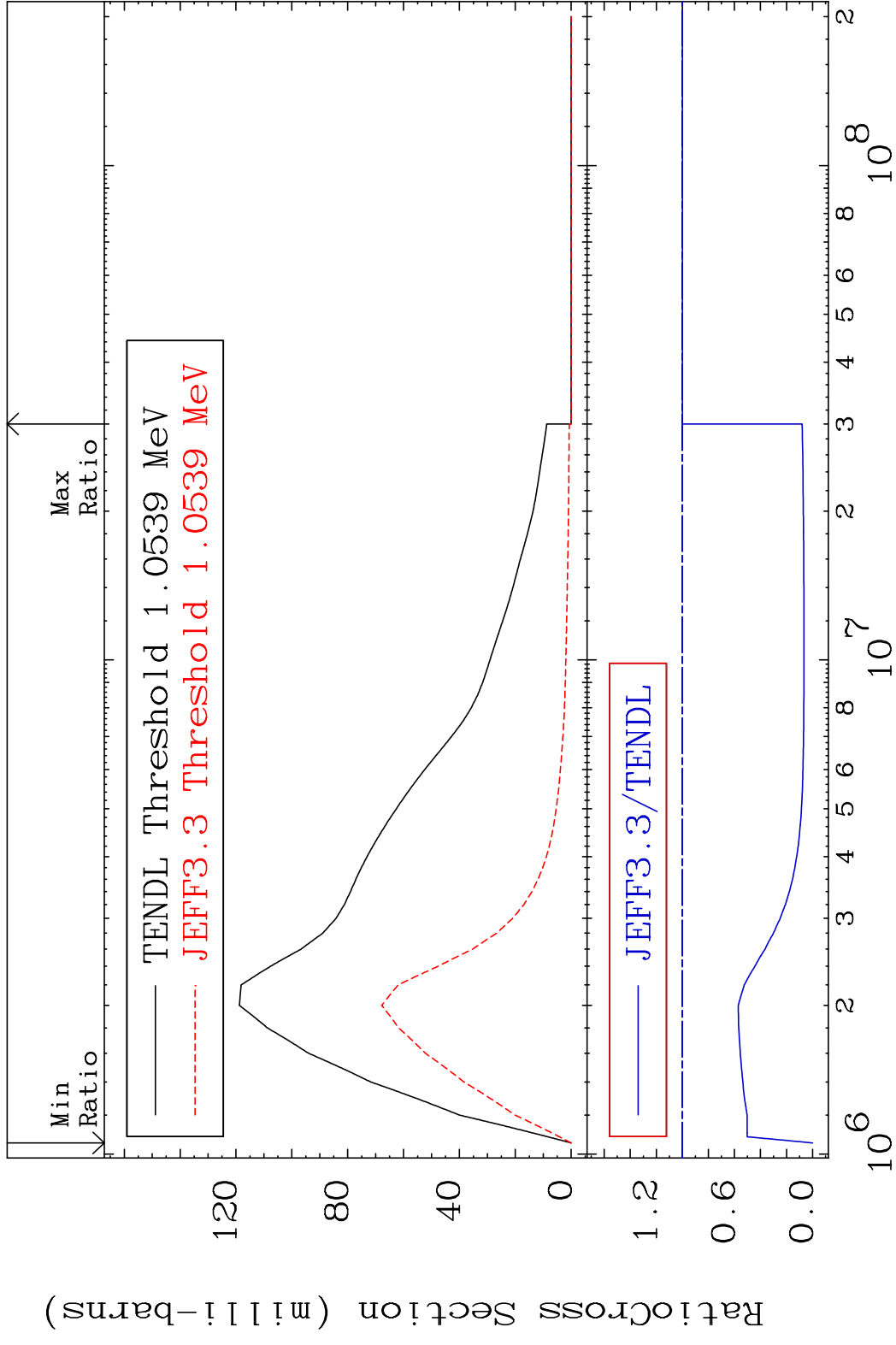
MAT 8122 MT= 63 (n, n') Level 81-Tl-202
 Cross Section -100.0 To 1565. %



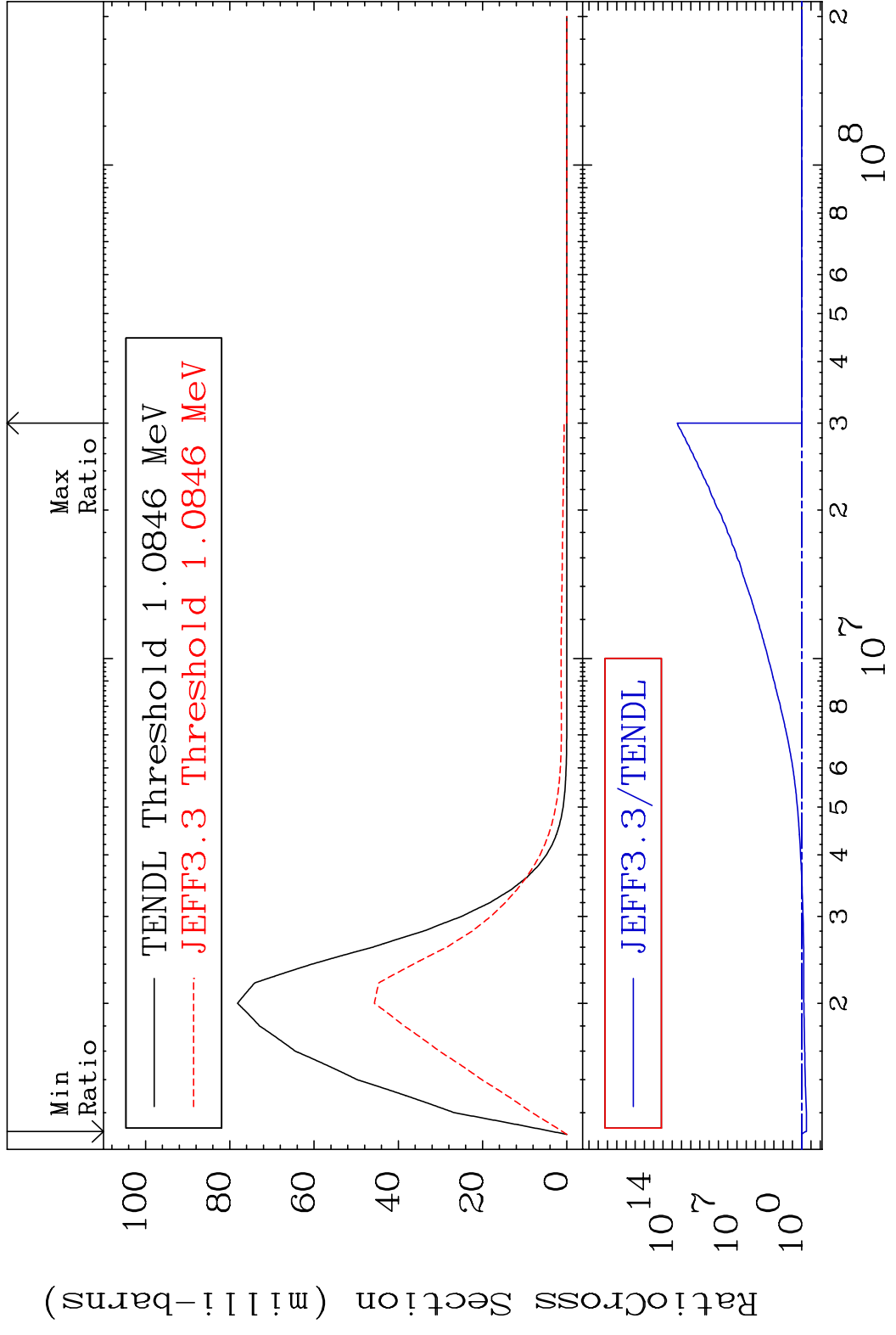
MAT 8122 MT= 64 (n, n') Level 81-Tl-202
 Cross Section -52.48 To 2309. %



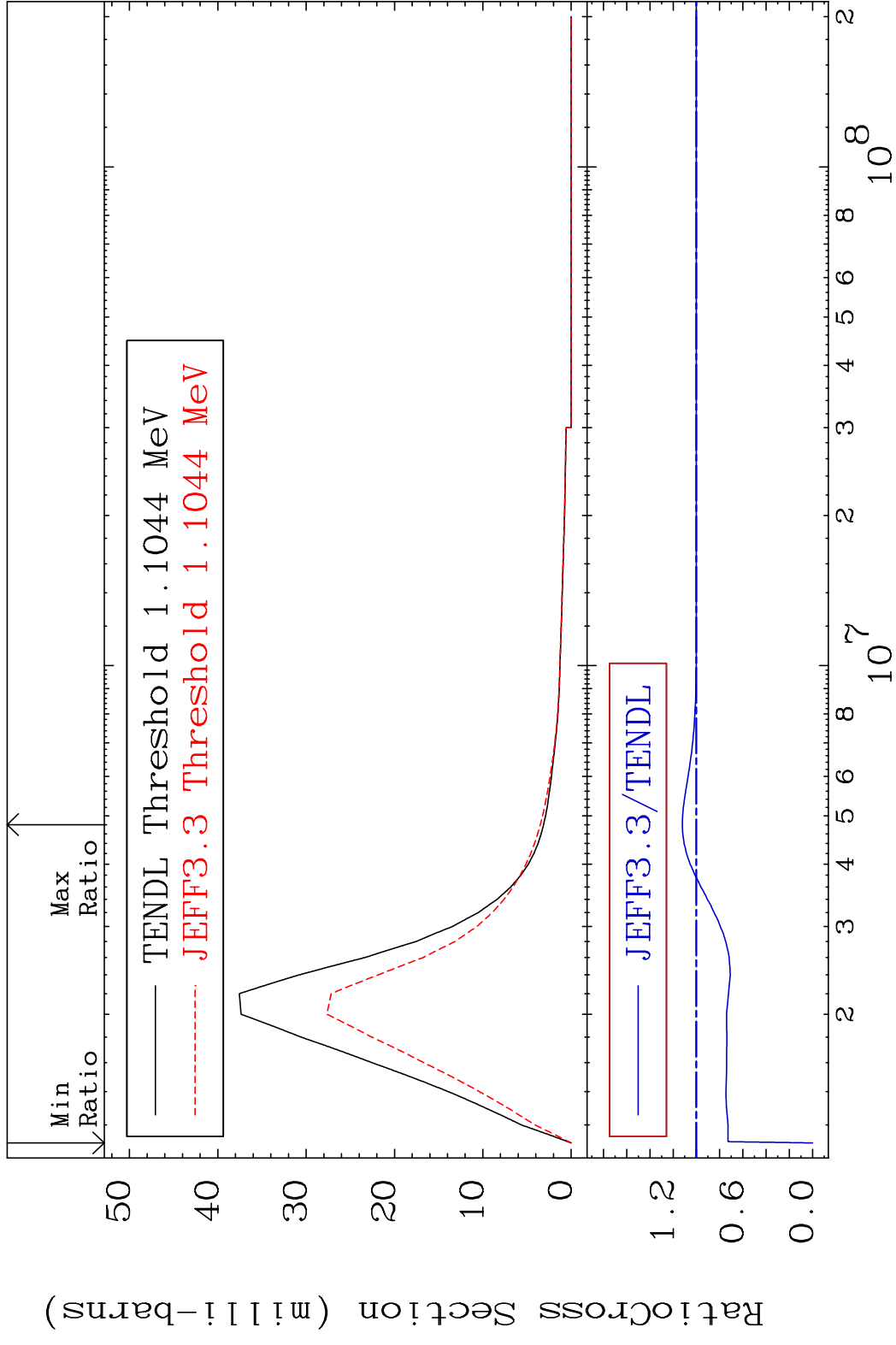
MAT 8122 MT= 65 (n, n') Level 81-T1-202
 Cross Section -100.0 To 0.000 %



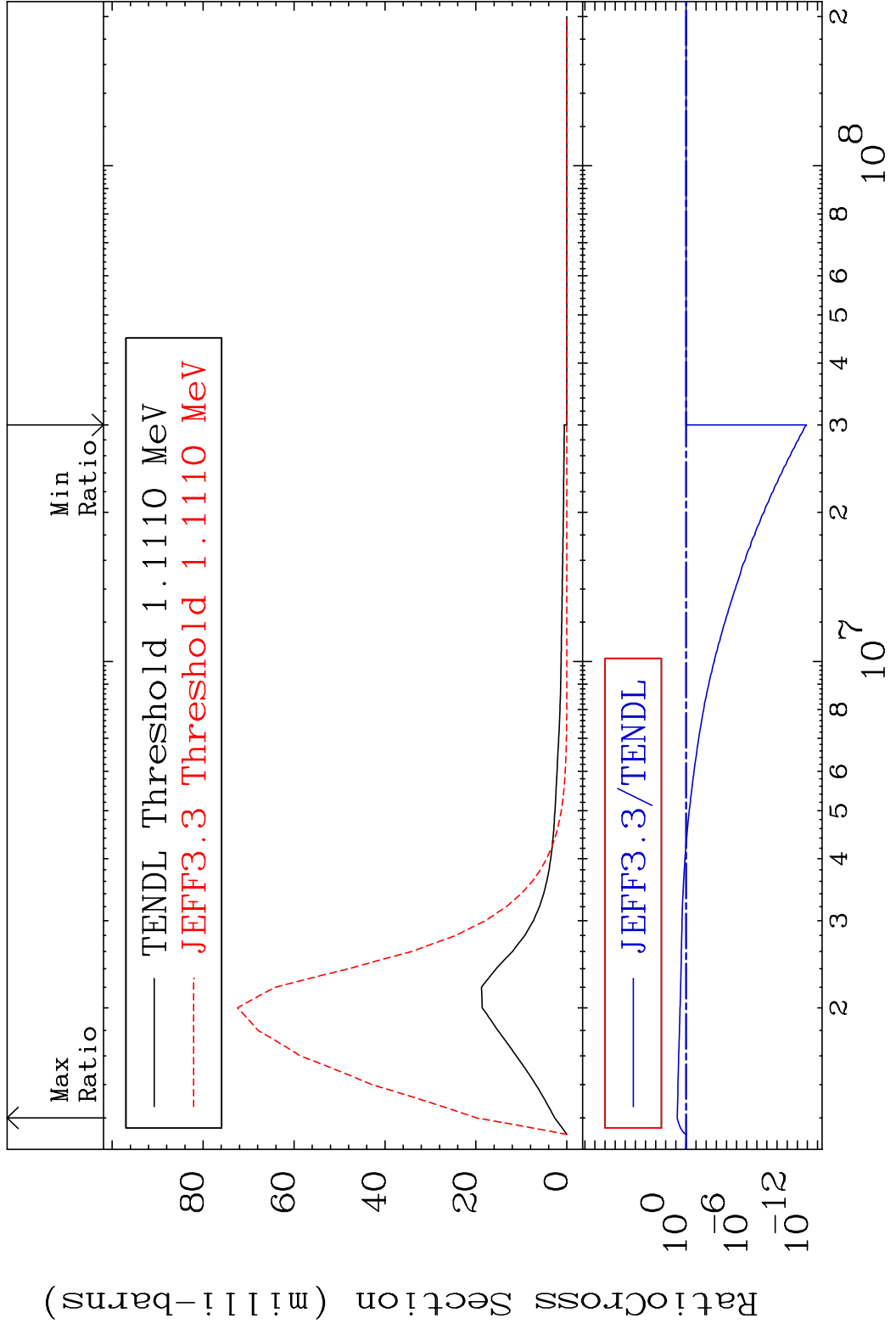
MAT 8122 MT= 66 (n, n') Level 81-Tl-202
 Cross Section -69.01 To 9999. %



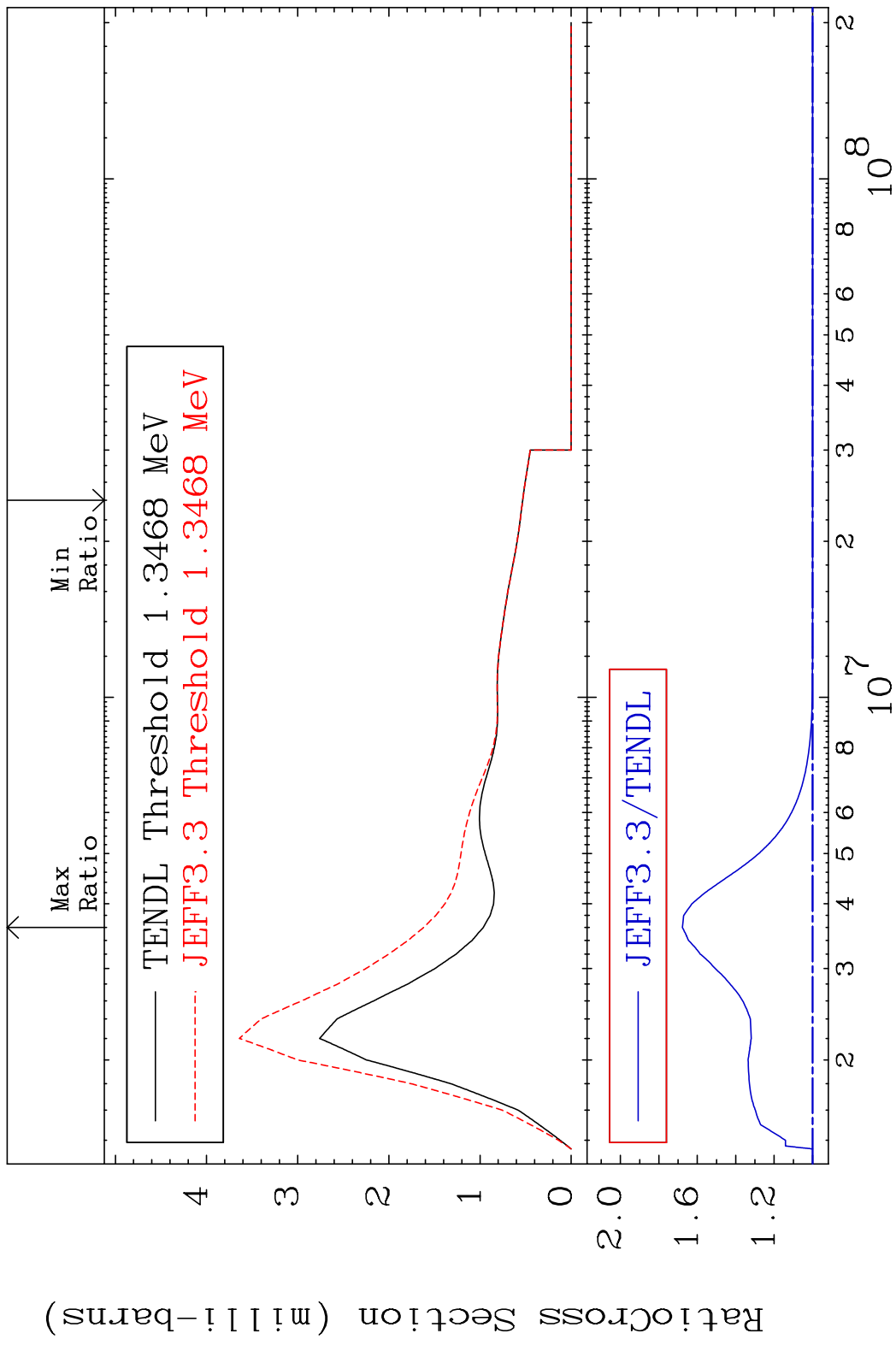
MAT 8122 MT= 67 (n, n') Level 81-Tl-202
 Cross Section -100.0 To 12.09 %



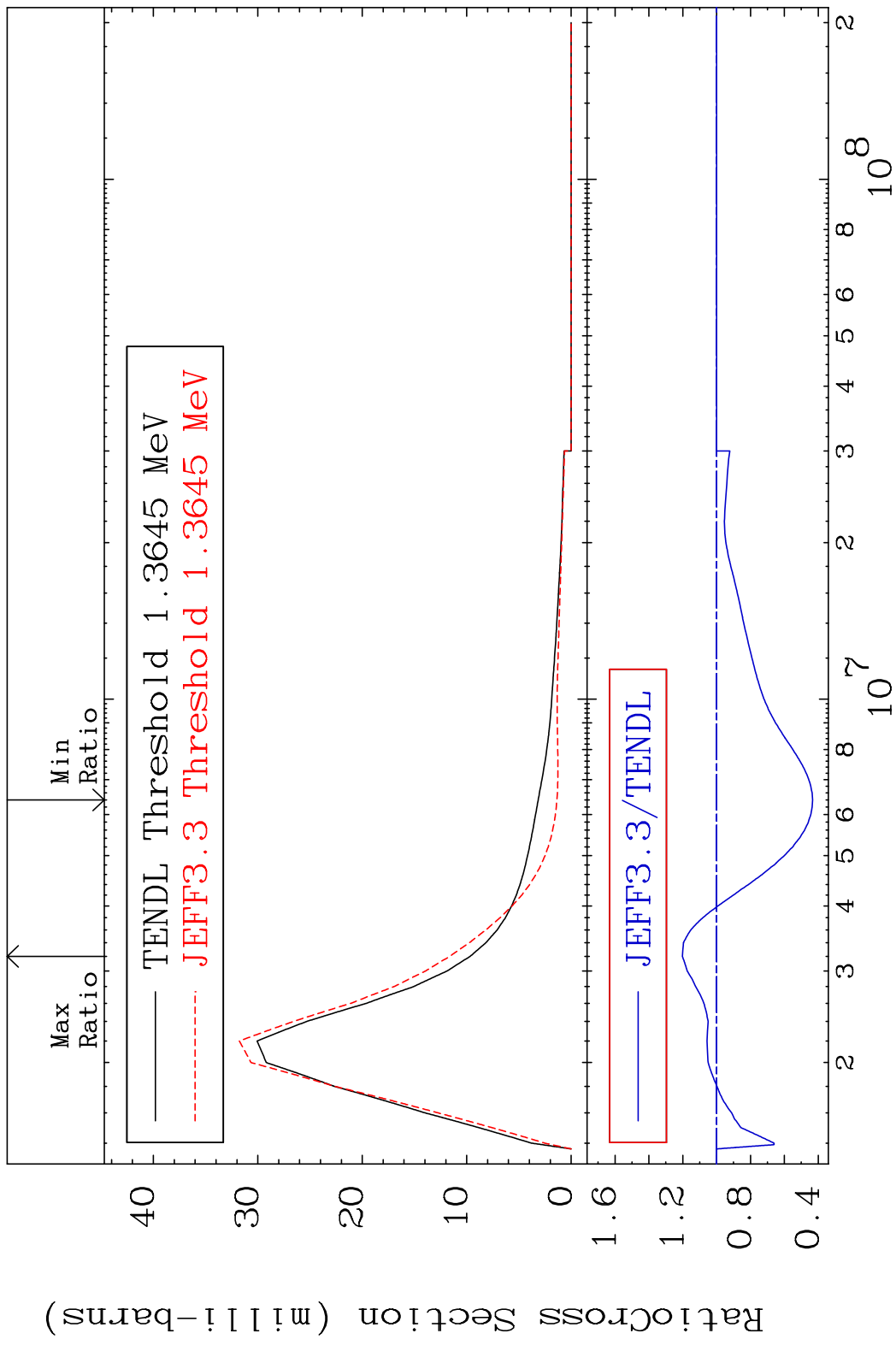
MAT 8122 MT= 68 (n, n') Level 81-Tl-202
 Cross Section -100.0 To 641.0 %



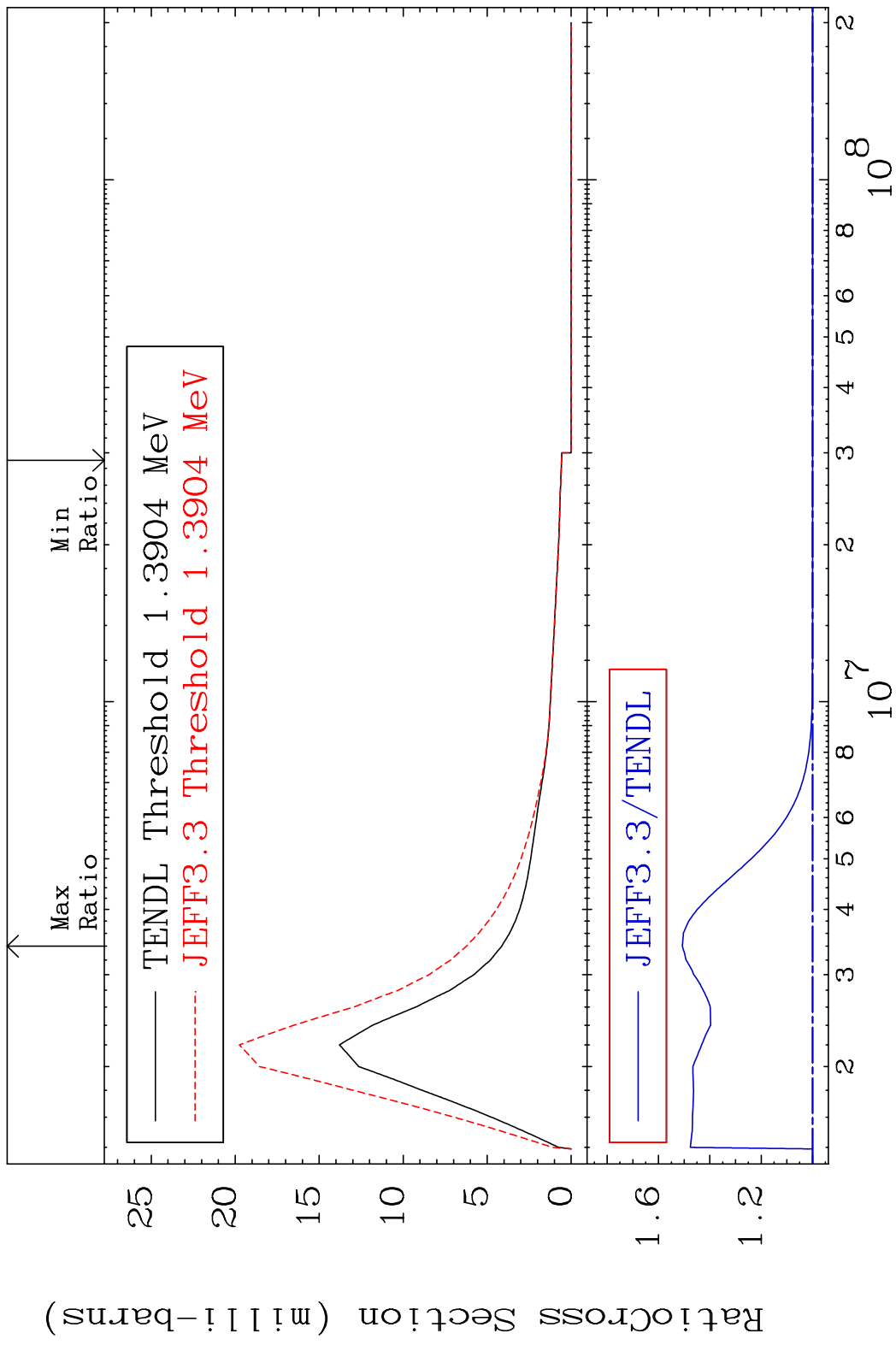
MAT 8122 MT= 69 (n, n') Level 81-Tl-202
 Cross Section 0.000 To 67.78 %



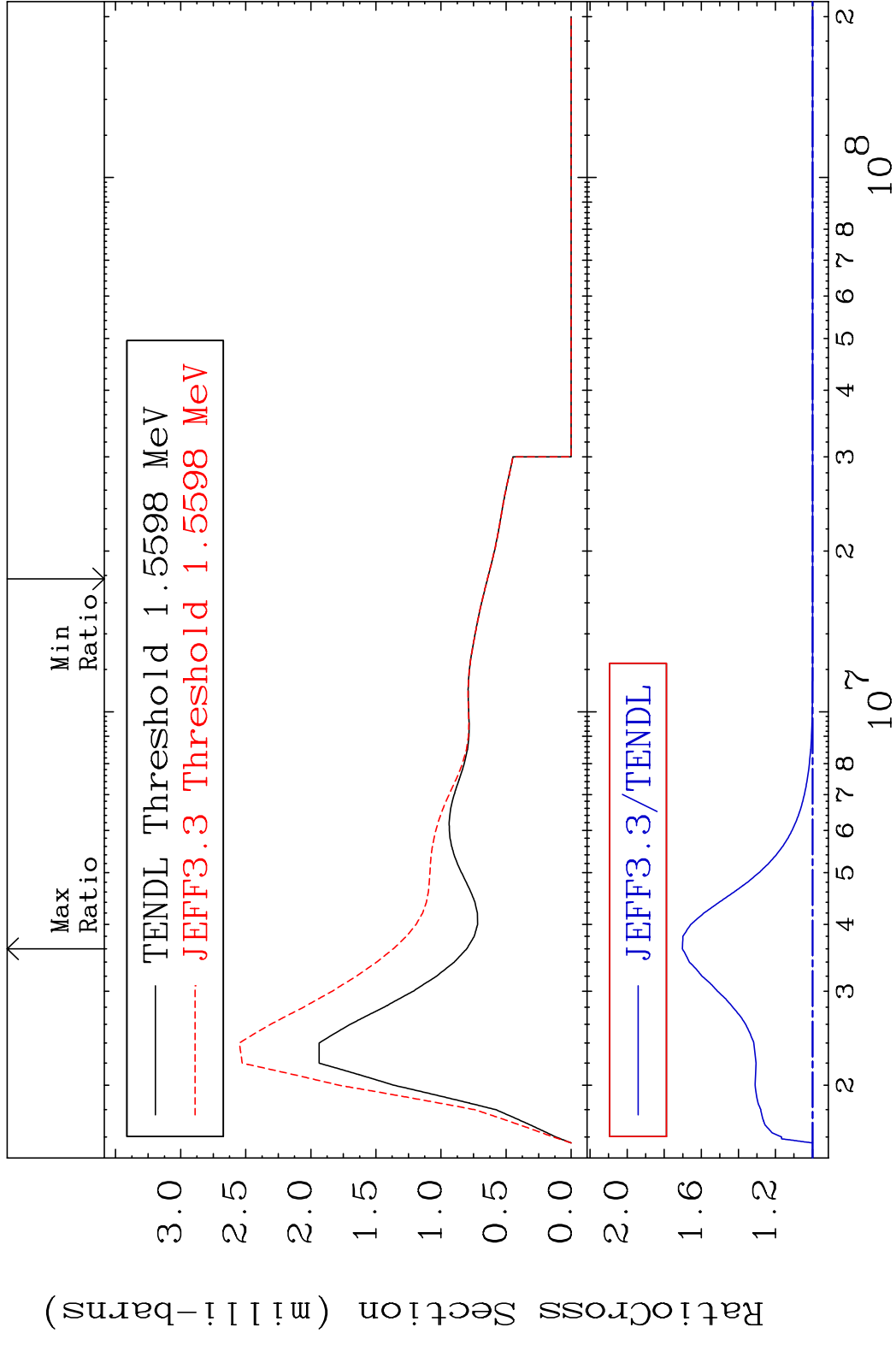
MAT 8122 MT= 70 (n, n') Level 81-Tl-202
 Cross Section -56.66 To 20.24 %



MAT 8122 MT= 71 (n, n') Level 81-Tl-202
 Cross Section 0.000 To 50.72 %

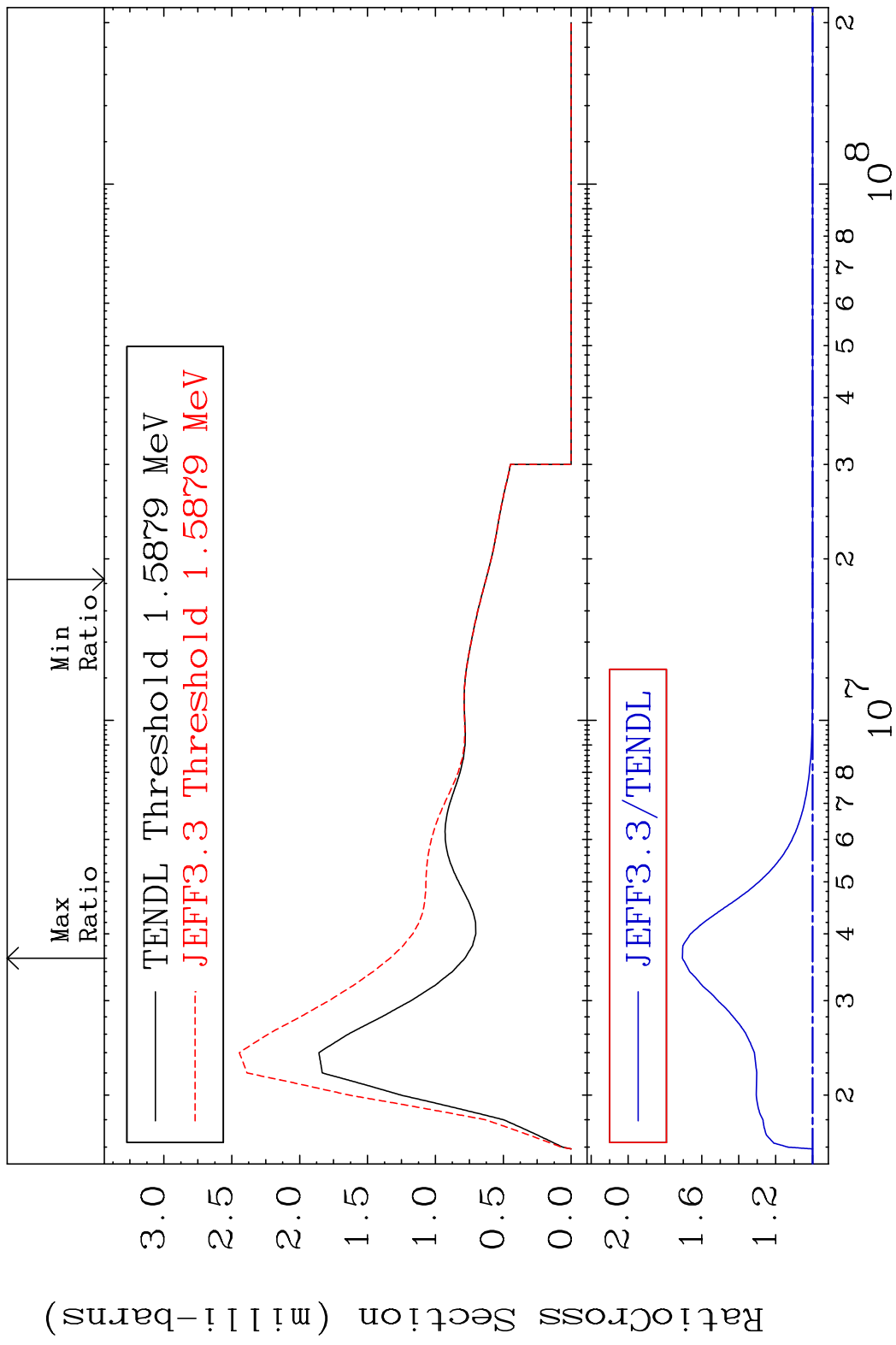


MAT 8122 MT= 72 (n, n') Level 81-Tl-202
 Cross Section 0.000 To 70.23 %

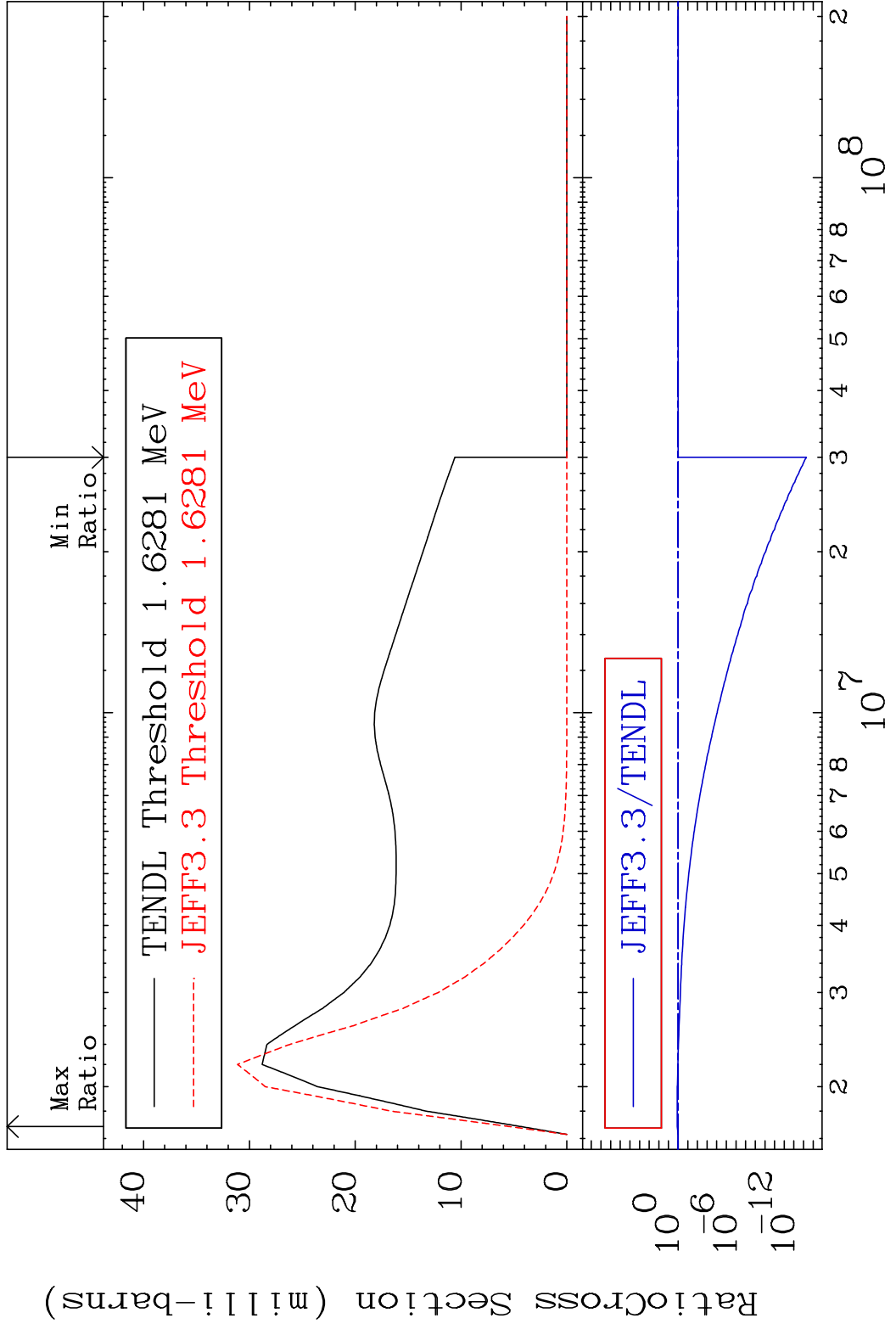


40 Incident Energy (eV) 81-Tl-202

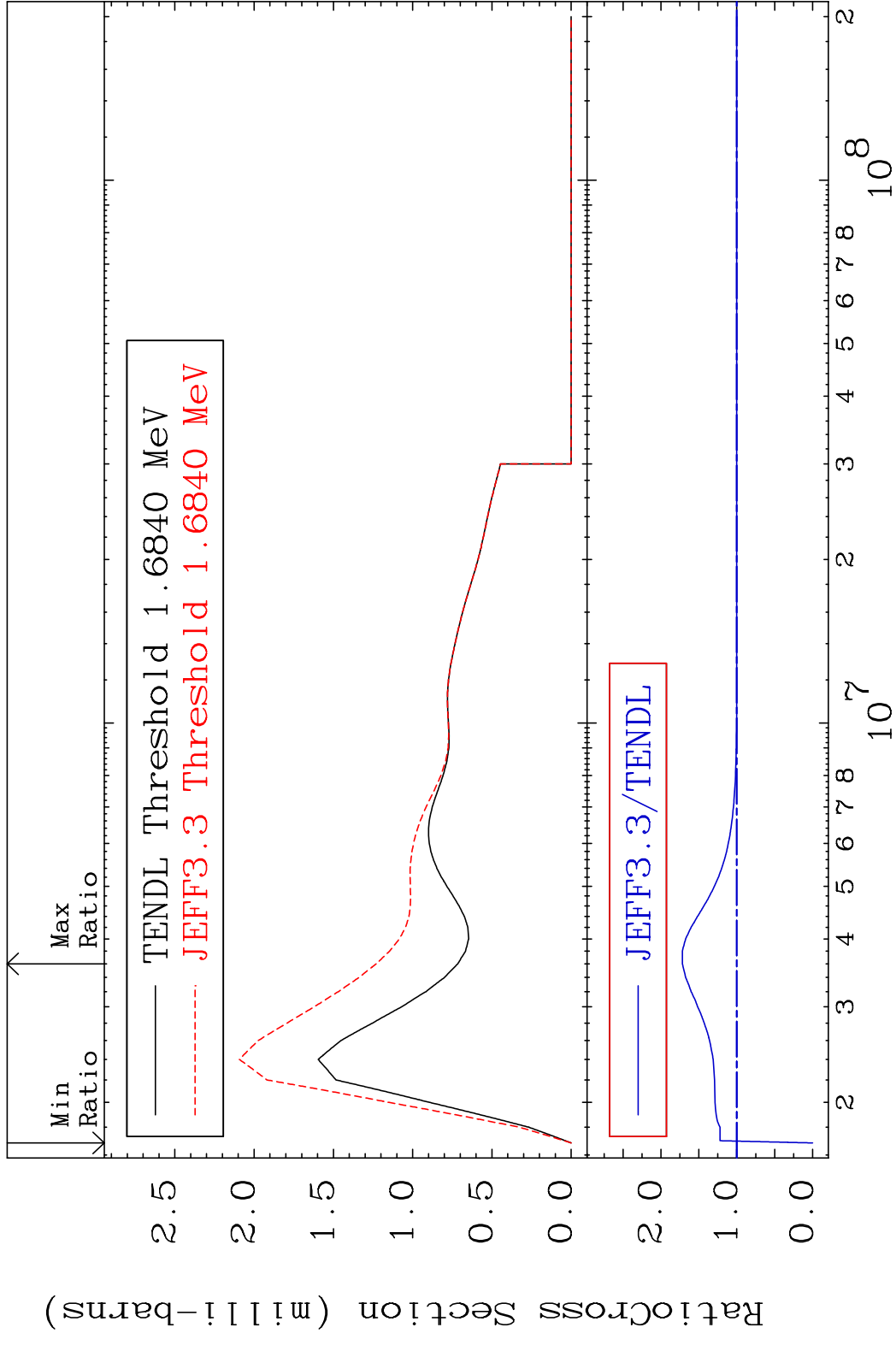
MAT 8122 MT= 73 (n, n') Level 81-Tl-202
 Cross Section 0.000 To 70.57 %



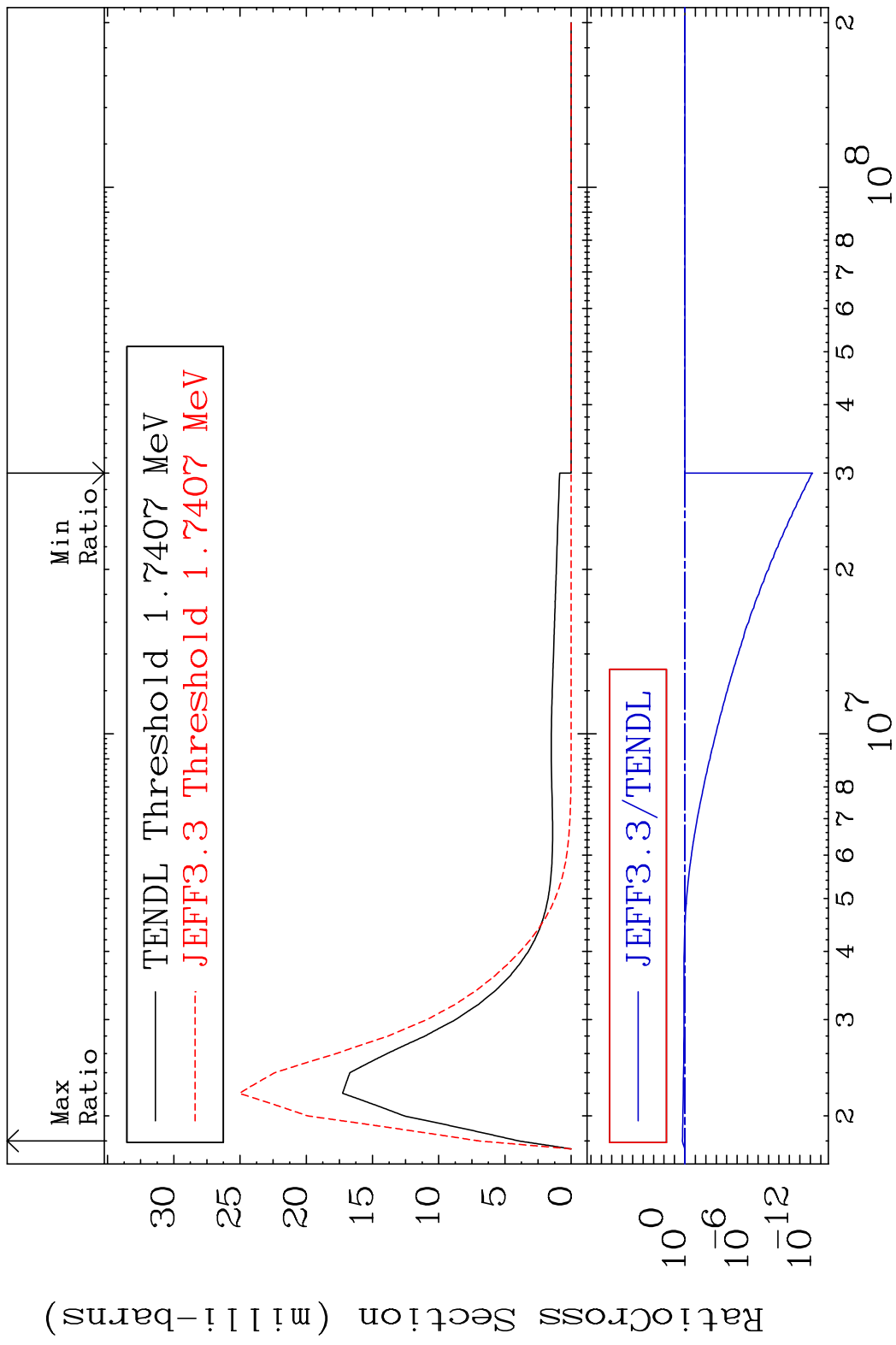
MAT 8122 MT= 74 (n, n') Level 81-Tl-202
 Cross Section -100.0 To 25.08 %



MAT 8122 MT= 75 (n, n') Level 81-Tl-202
 Cross Section -100.0 To 71.80 %



MAT 8122 MT= 76 (n, n') Level 81-Tl-202
 Cross Section -100.0 To 75.95 %

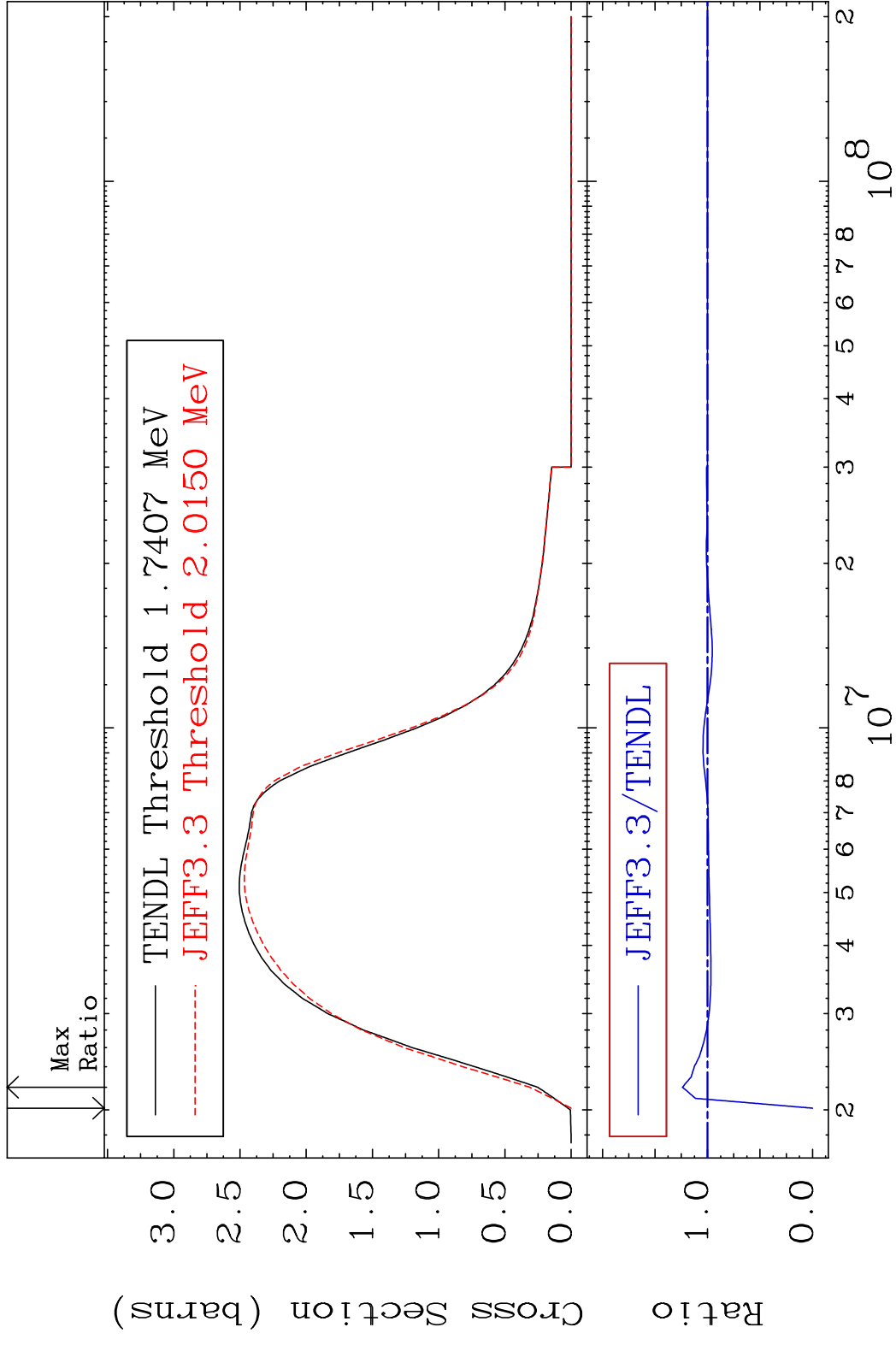


MAT 8122

(n, n') Continuum

81-Tl-202

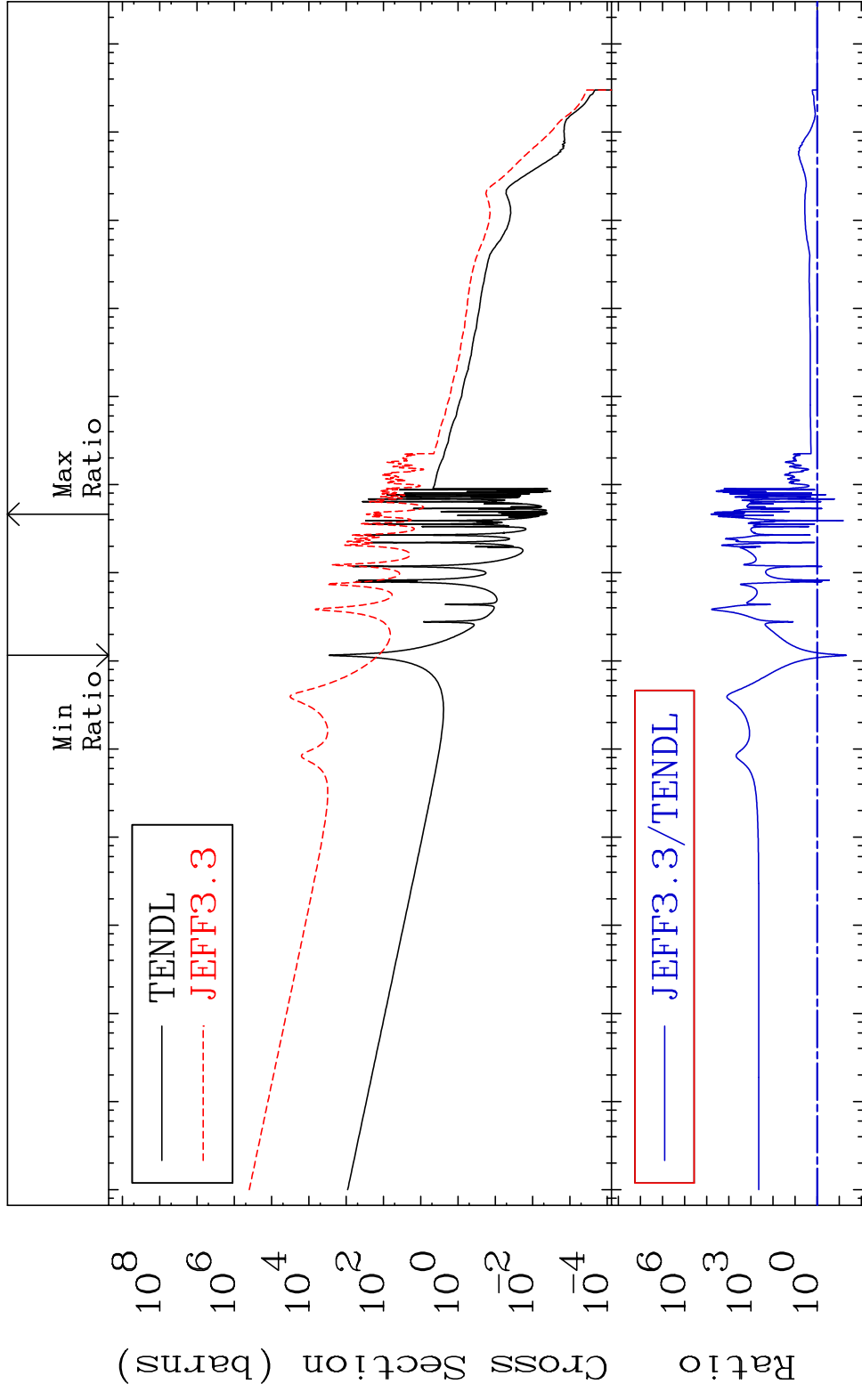
Cross Section -100.0 To 23.96 %



MAT 8122

(n, γ)
Cross Section -95.24 To 9999. %

81-T1-202



10^8
 10^6
 10^4
 10^2
 10^0
 10^{-2}
 10^{-4}
 10^6
 10^3
 10^0

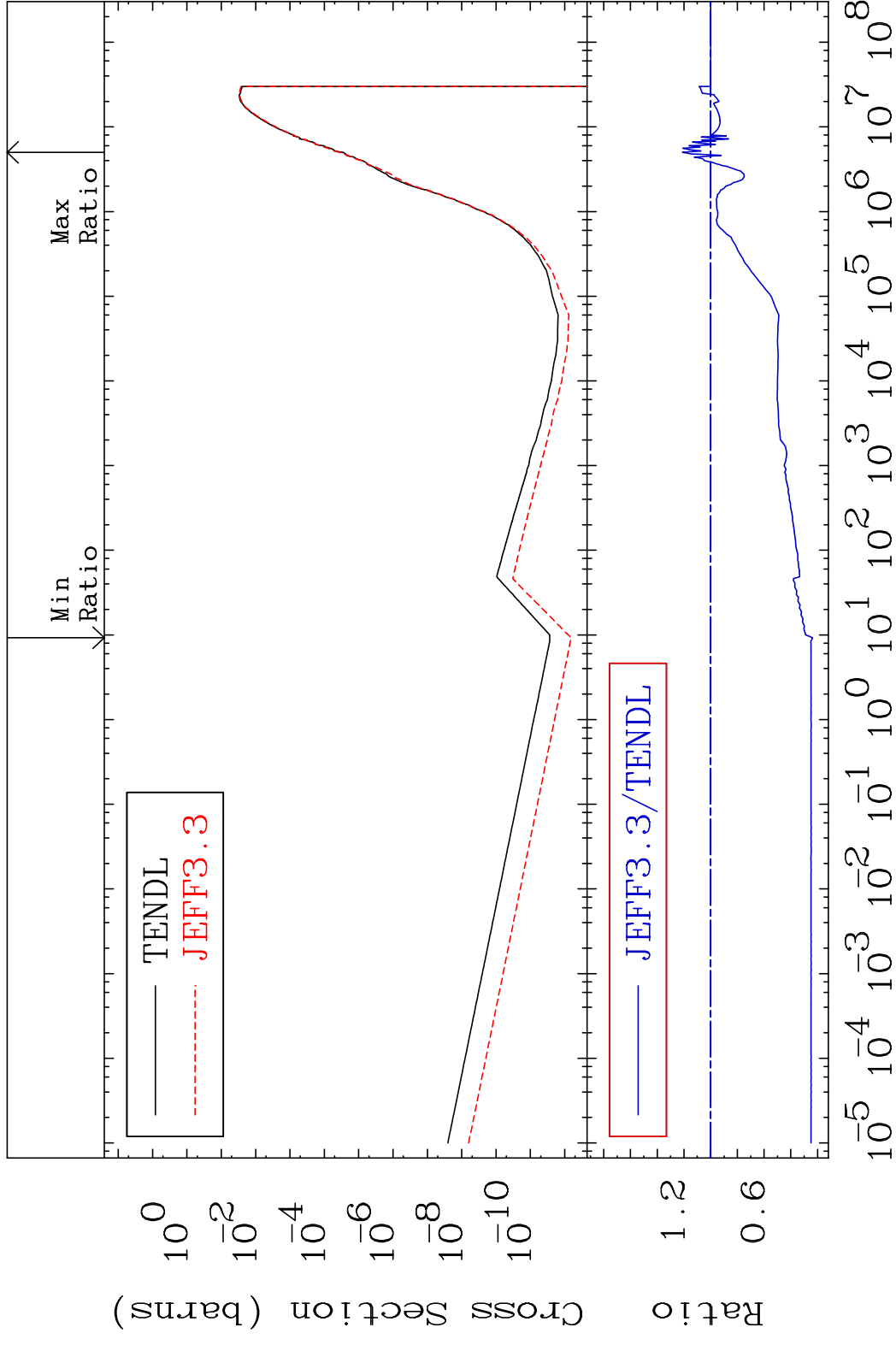
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8

MAT 8122

(n, p)

81-T1-202

Cross Section -76.27 To 21.18 %

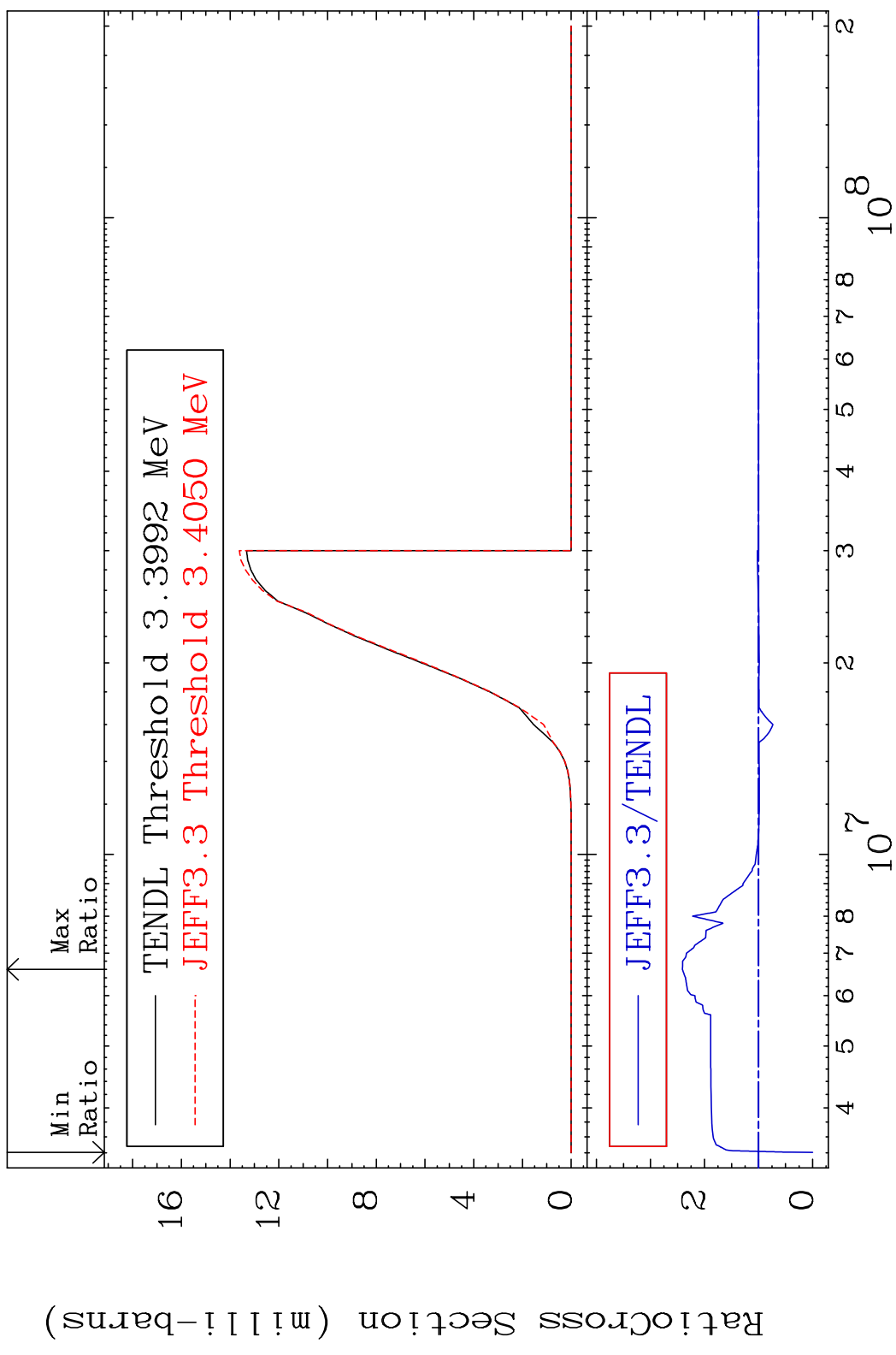


MAT 8122

(n, d)

81-Tl-202

Cross Section -100.0 To 141.1 %

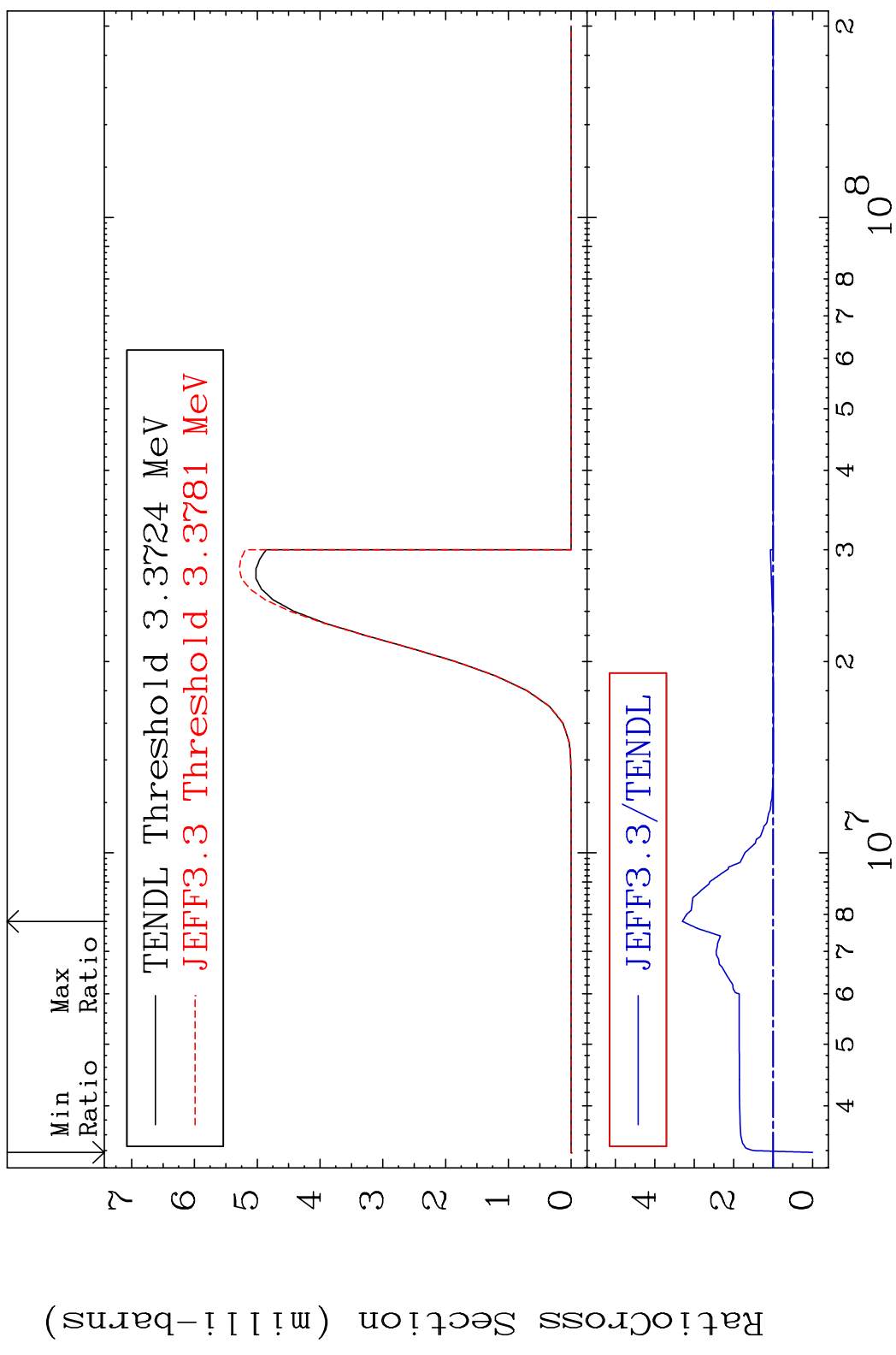


MAT 8122

(n, t)

81-Tl-202

Cross Section -100.0 To 230.2 %

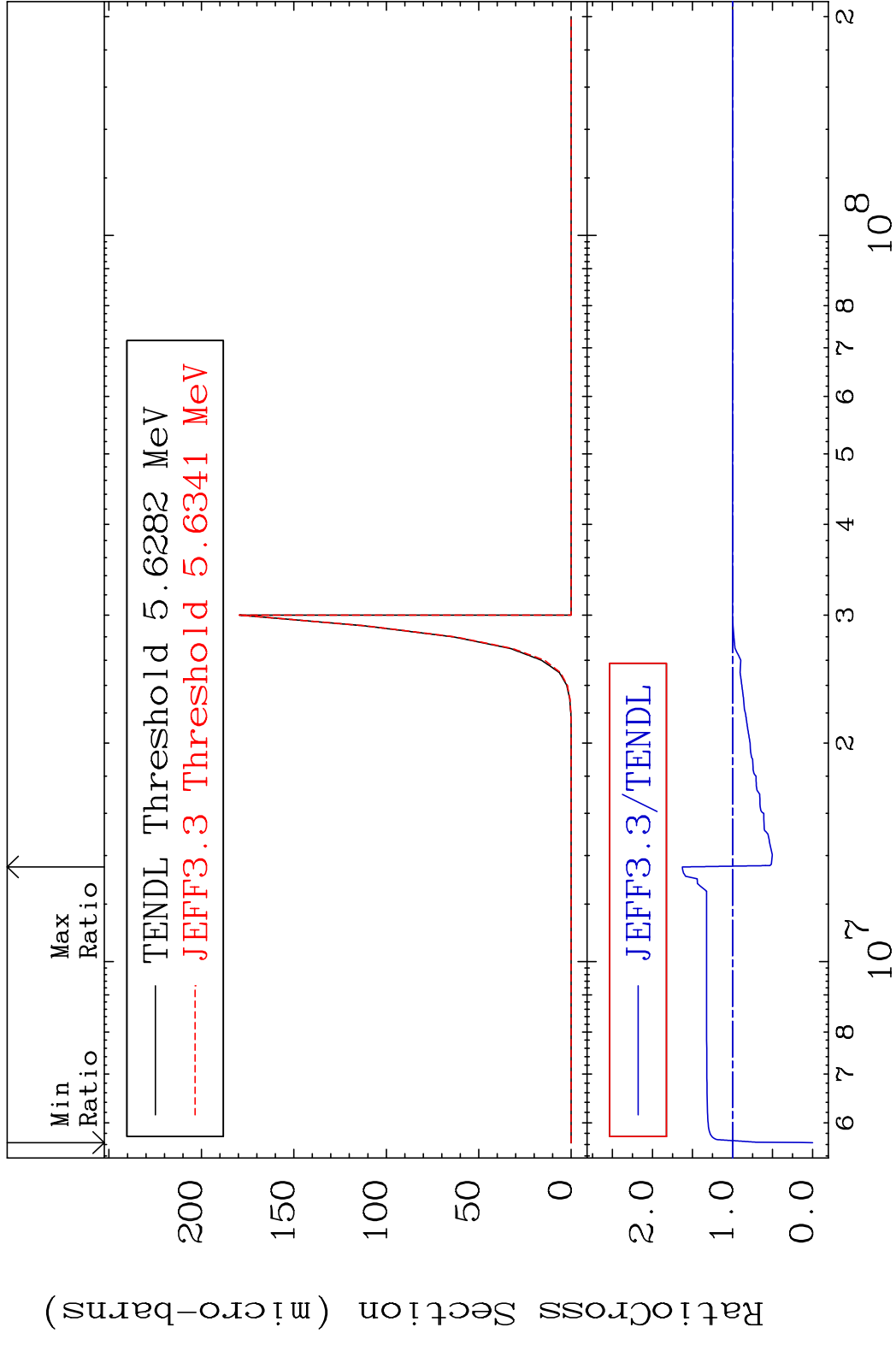


MAT 8122

(n, He-3)

81-Tl-202

Cross Section -100.0 To 62.69 %



50

Incident Energy (eV)

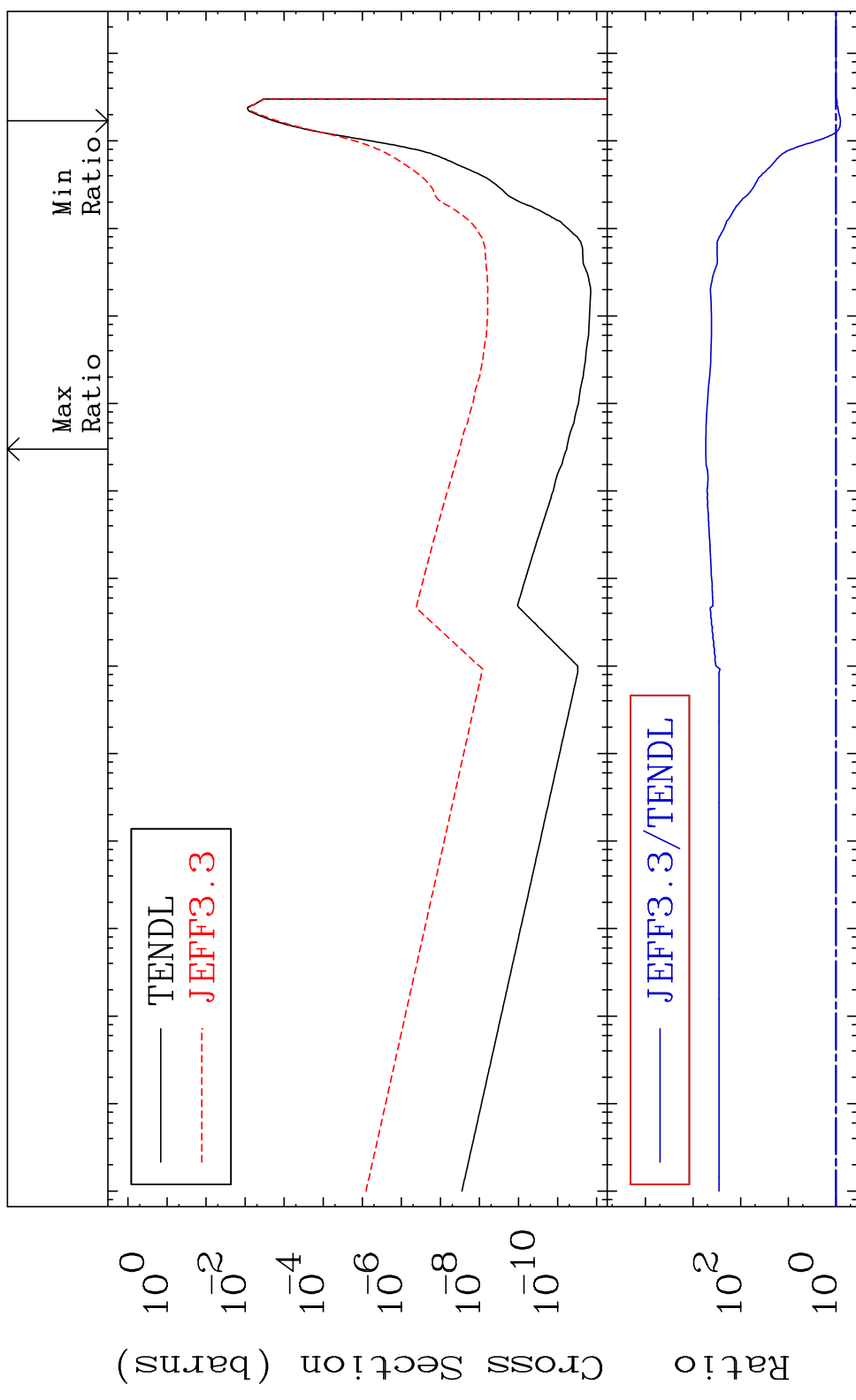
81-Tl-202

MAT 8122

(n, α)

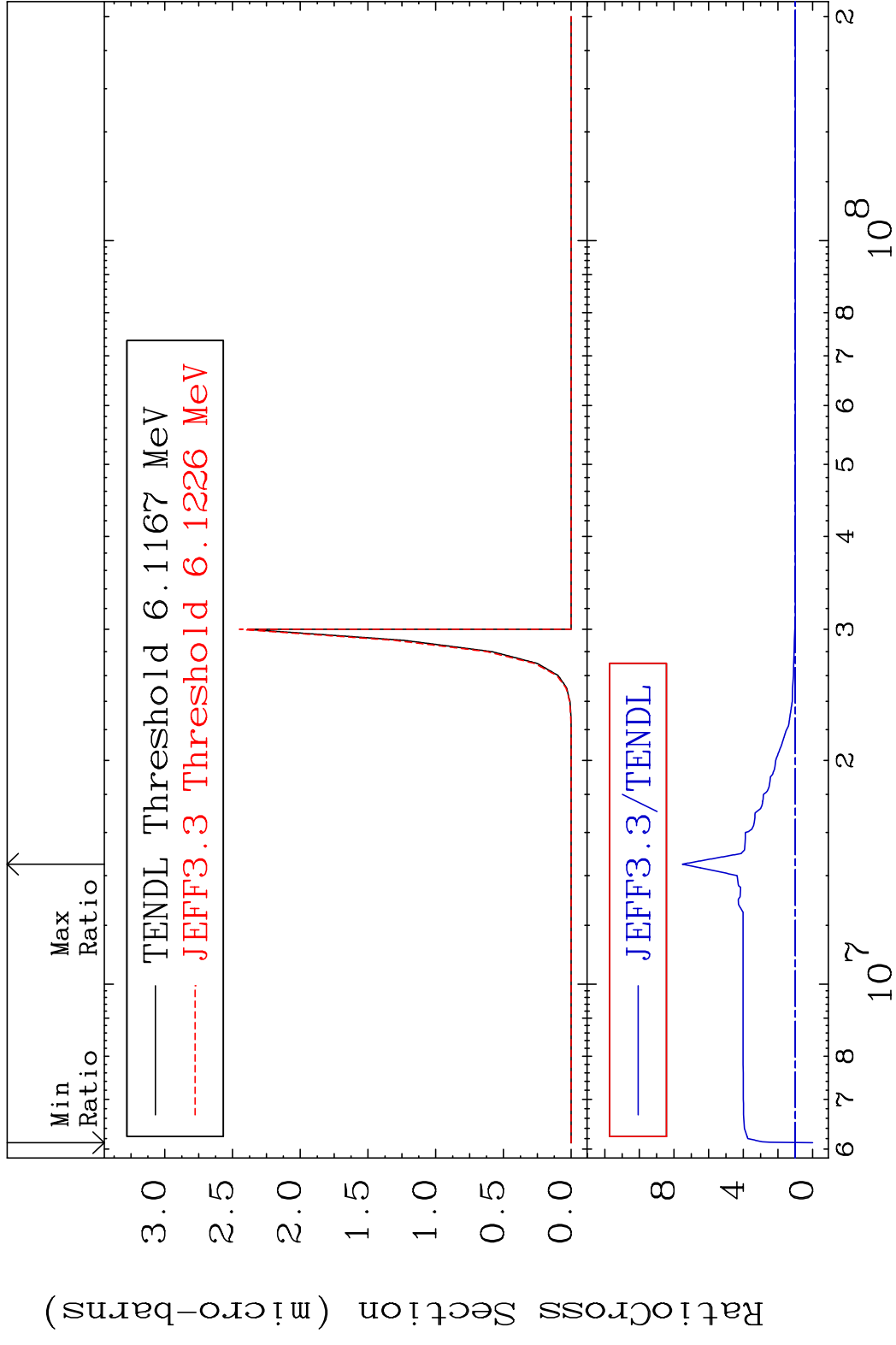
81-T1-202

Cross Section -19.25 To 9999. %



Ratio
 10^2
 10^0
 10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8

Cross Section -100.0 To 651.9 %

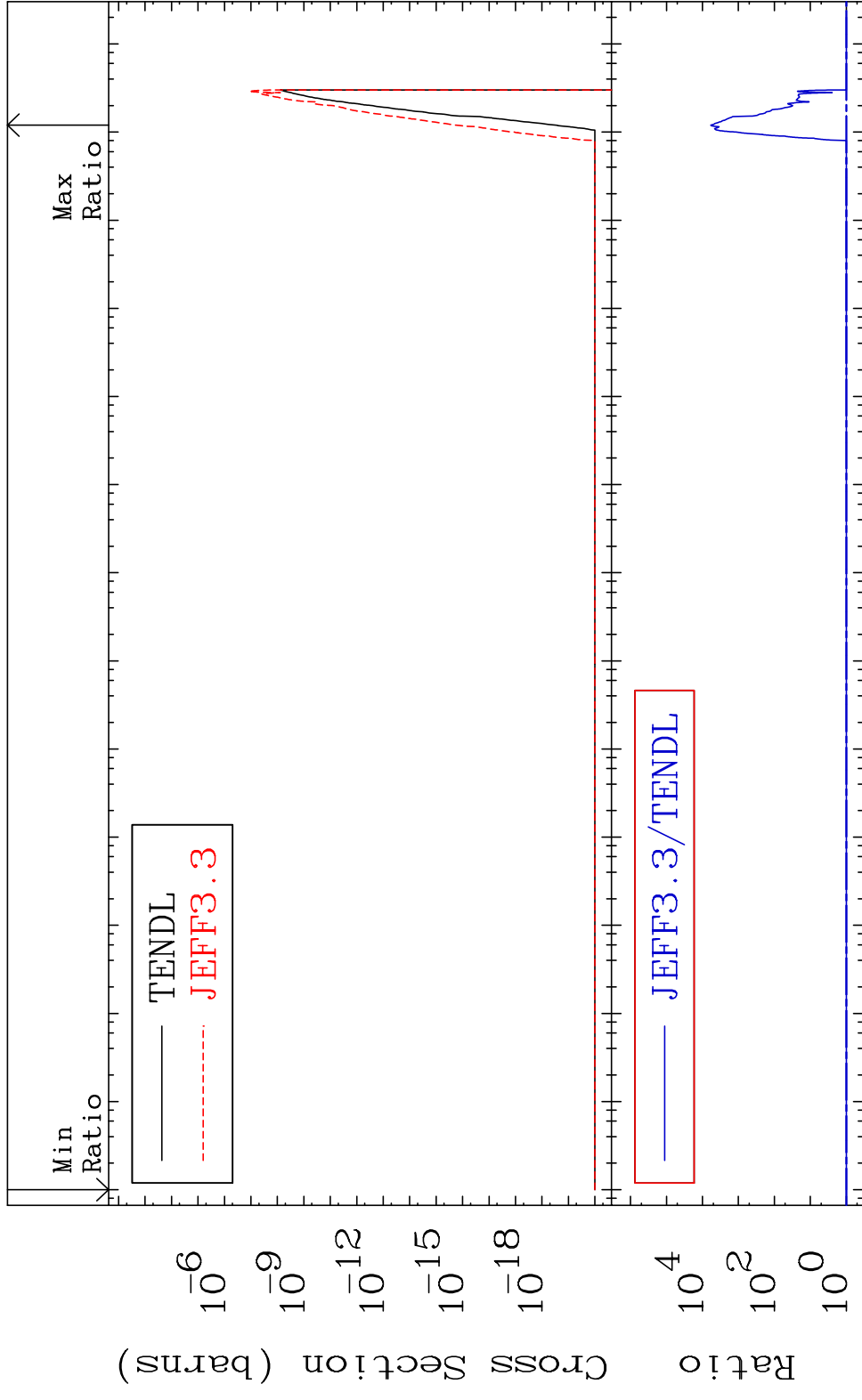


MAT 8122

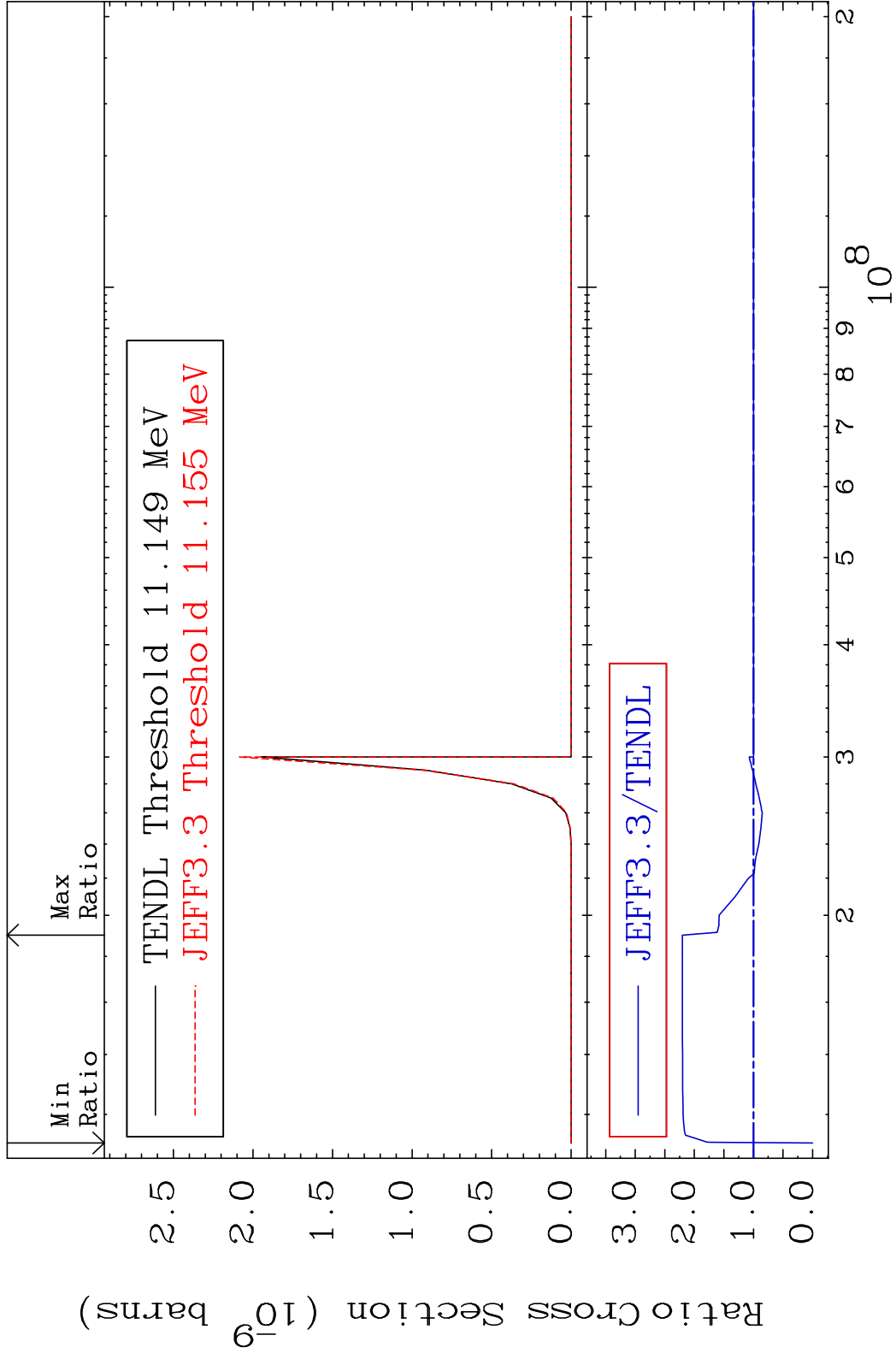
(n,p) α

81-T1-202

Cross Section 0.000 To 9999. %



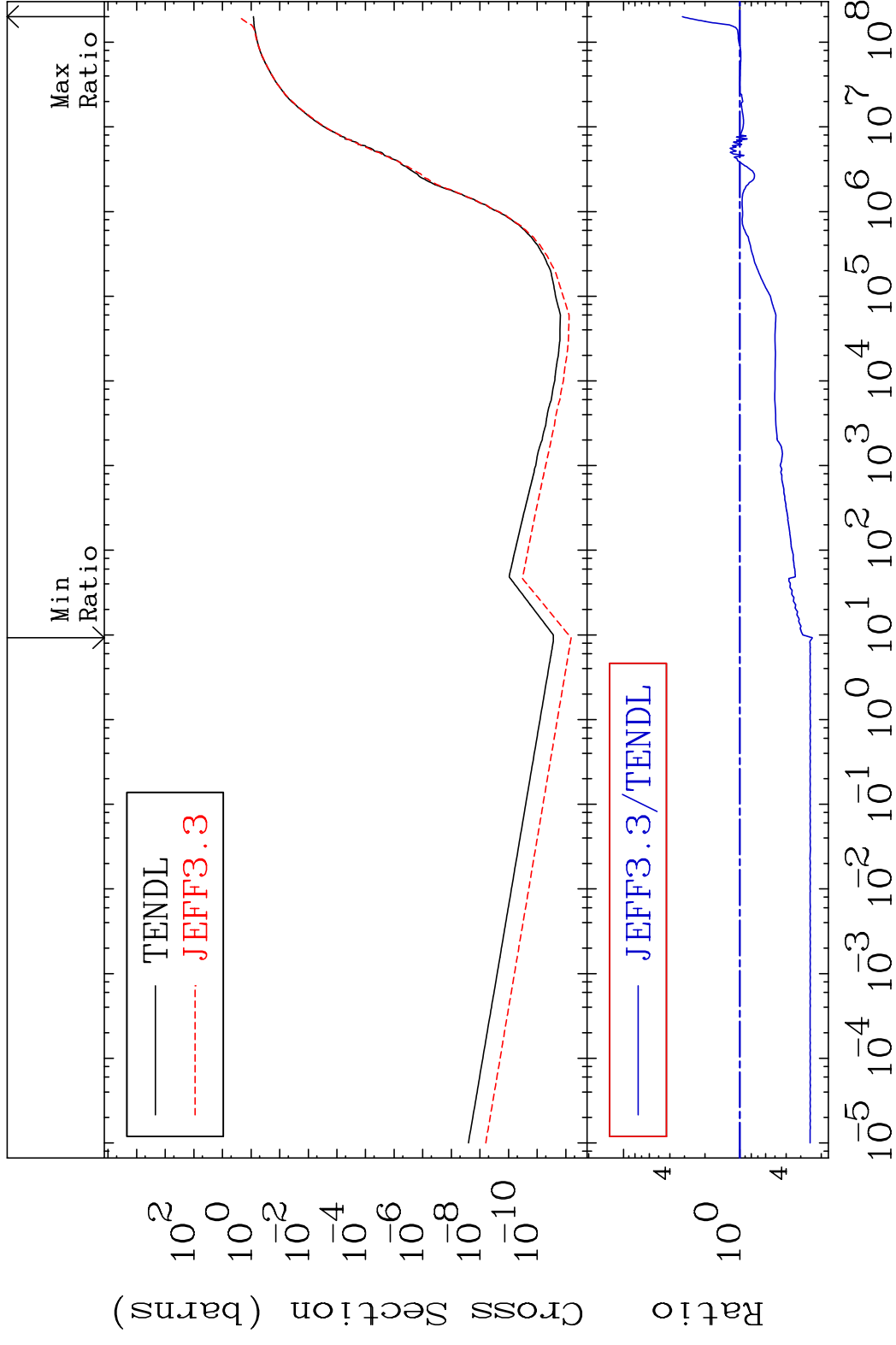
MAT 8122 (n,p) d 81-Tl-202
 Cross Section -100.0 To 120.3 %



MAT 8122

Hydrogen Production
Cross Section -76.27 To 212.4 %

81-T1-202

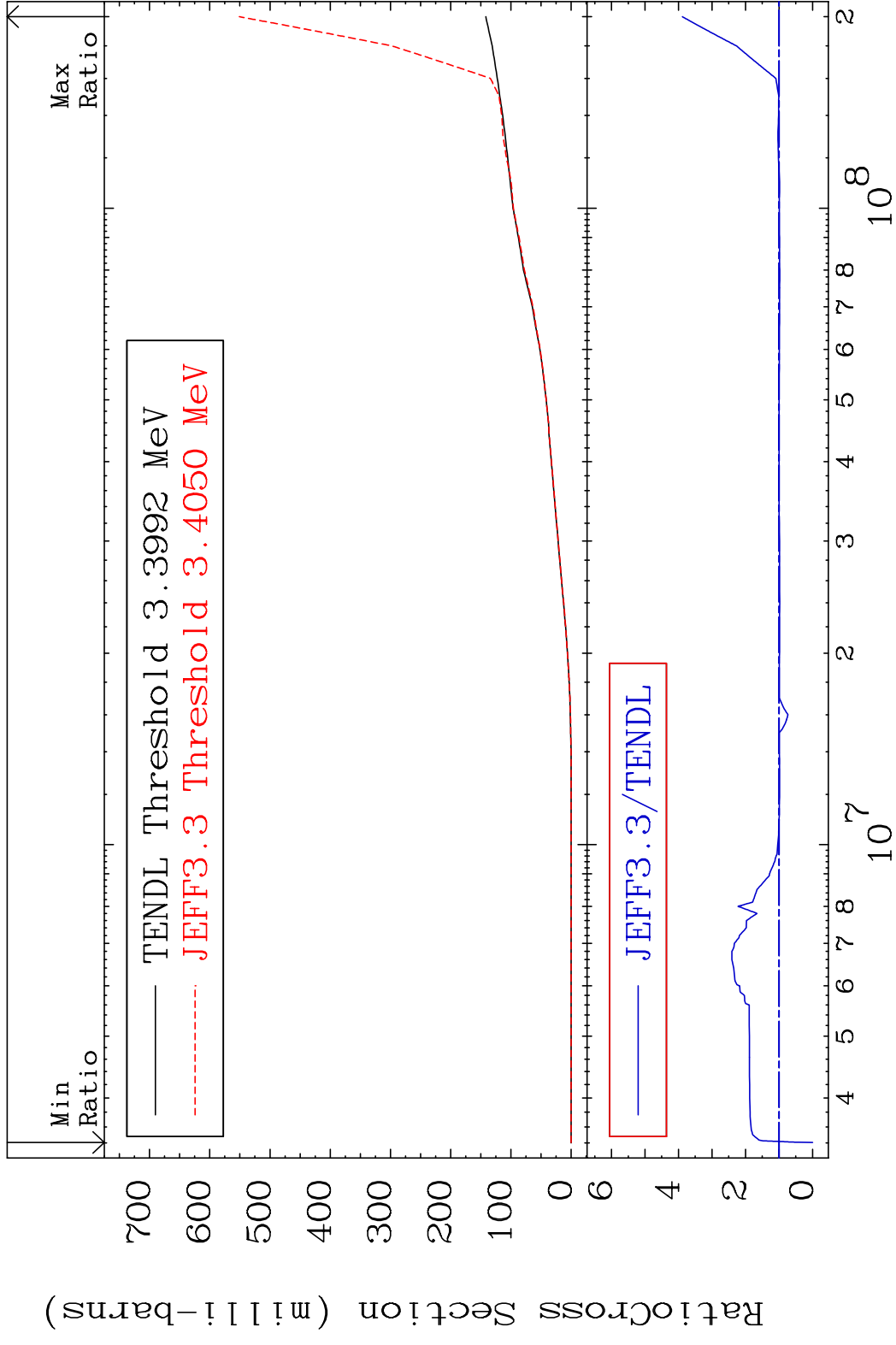


55

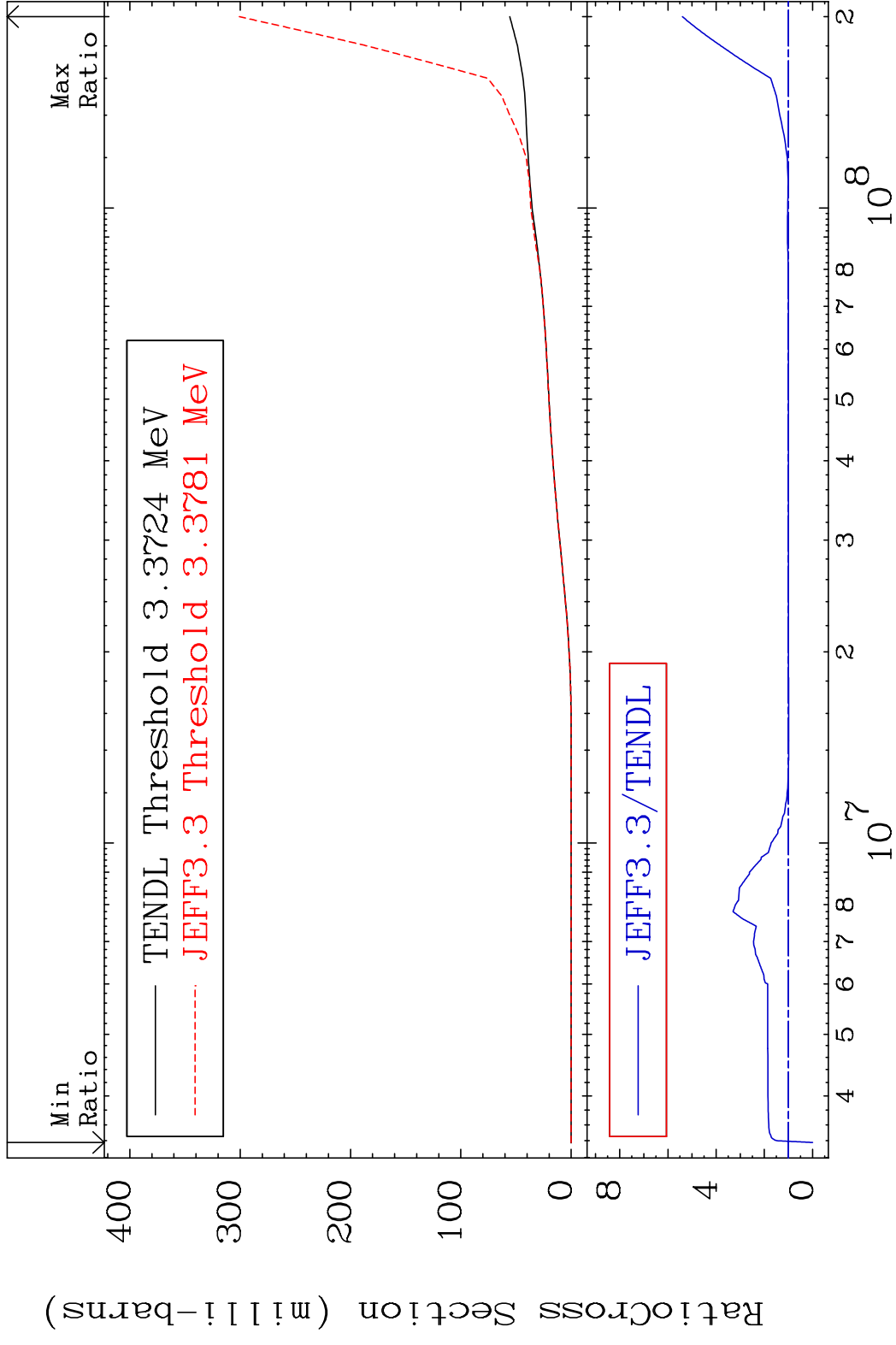
Incident Energy (eV)

81-T1-202

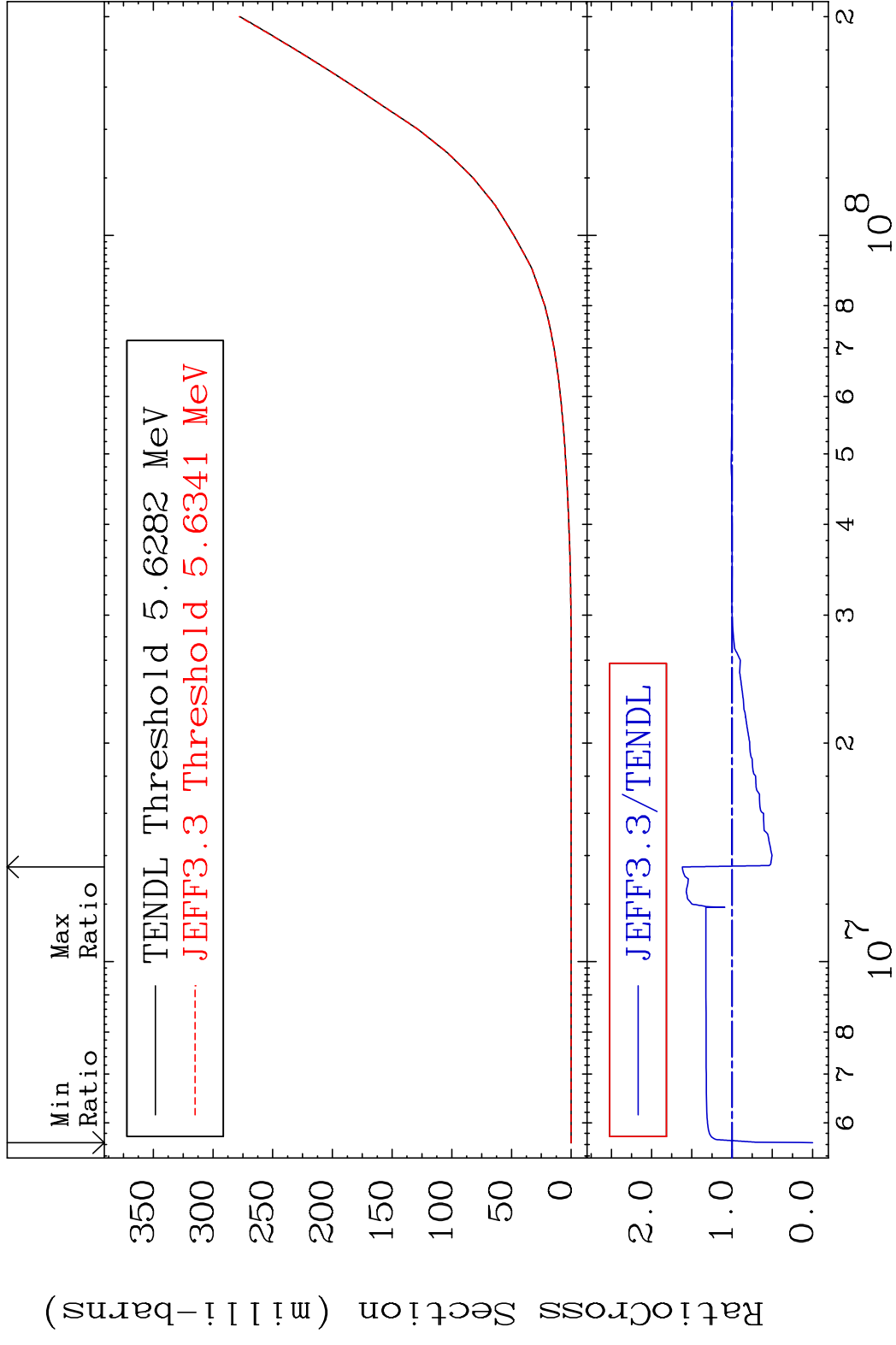
Cross Section -100.0 To 288.5 %



Cross Section -100.0 To 440.1 %



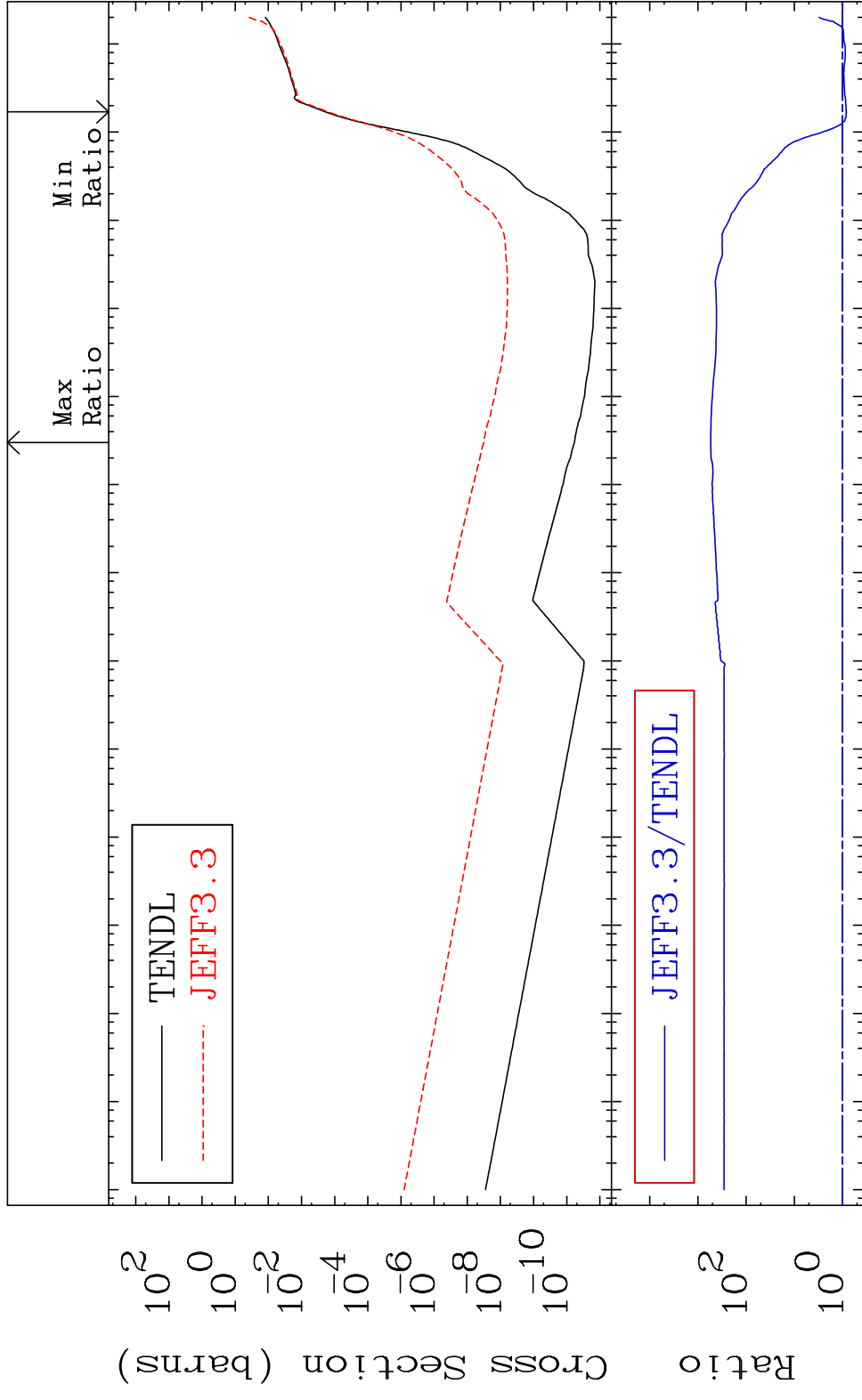
Cross Section -100.0 To 61.80 %



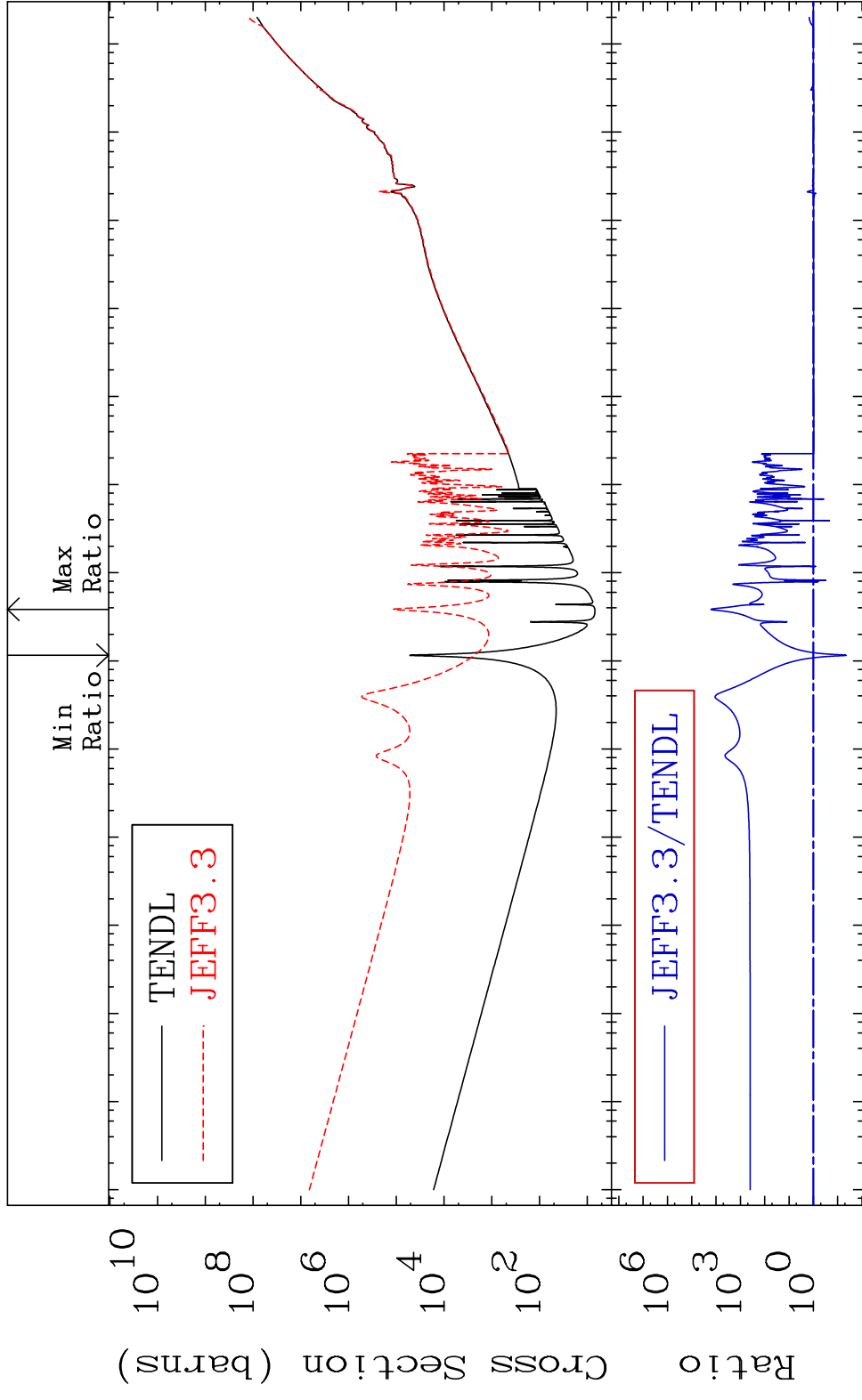
MAT 8122

He-4 Production
Cross Section

81-T1-202
-16.56 To 9999. %



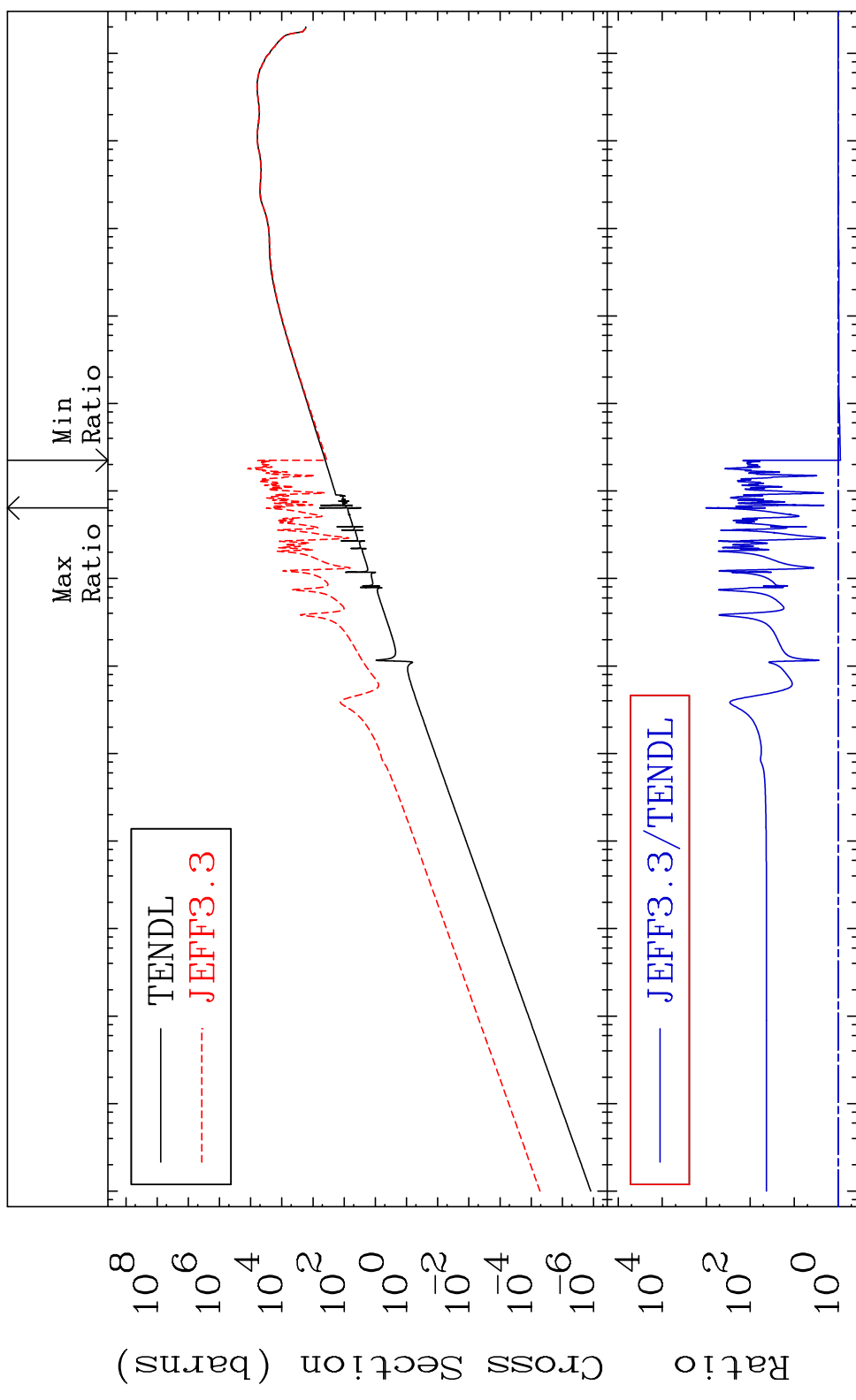
MAT 8122 Kerma total (eV-barns) 81-T1-202
 Cross Section -95.60 To 9999. %



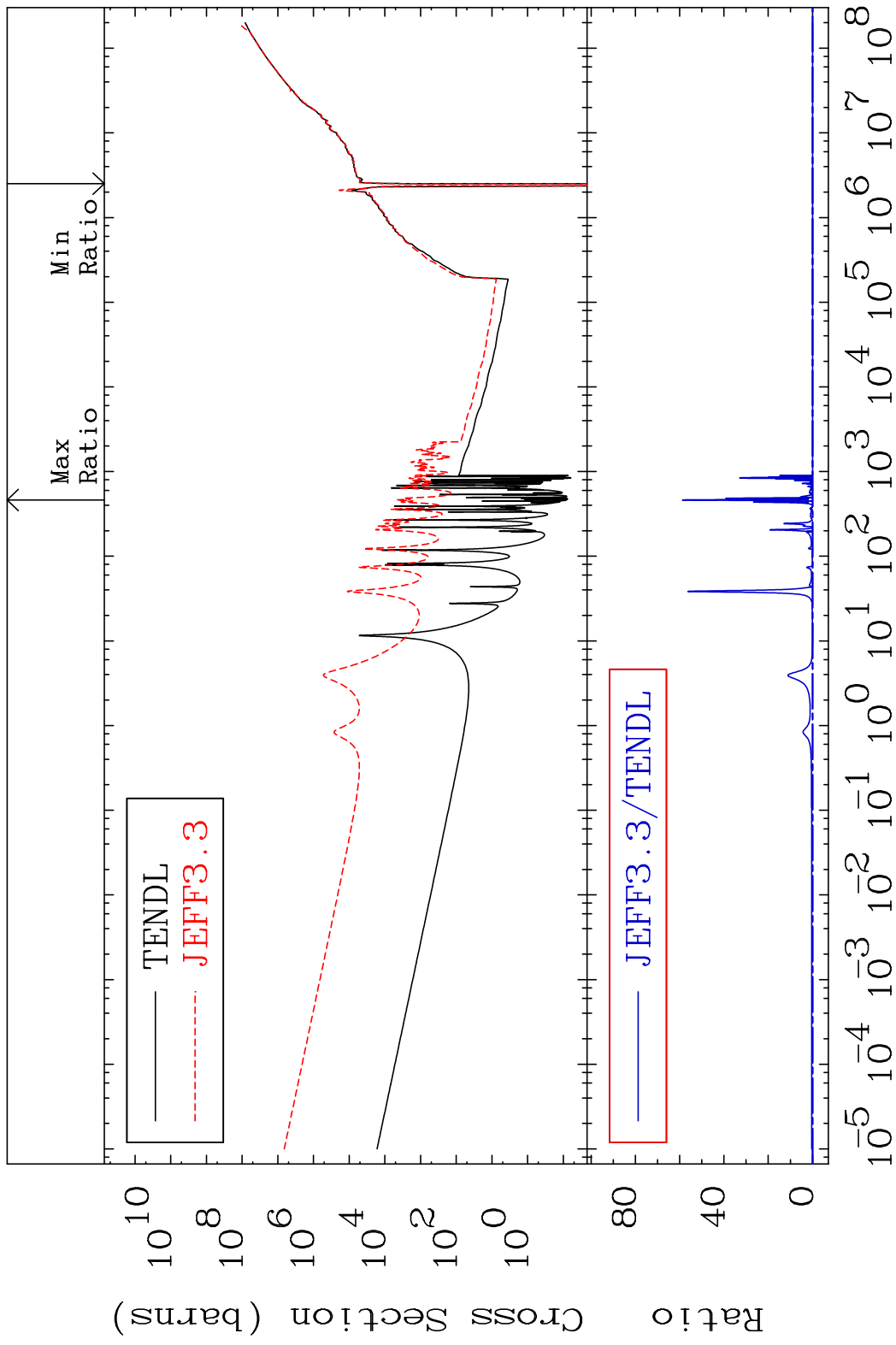
60 Incident Energy (eV) 81-T1-202

MAT 8122

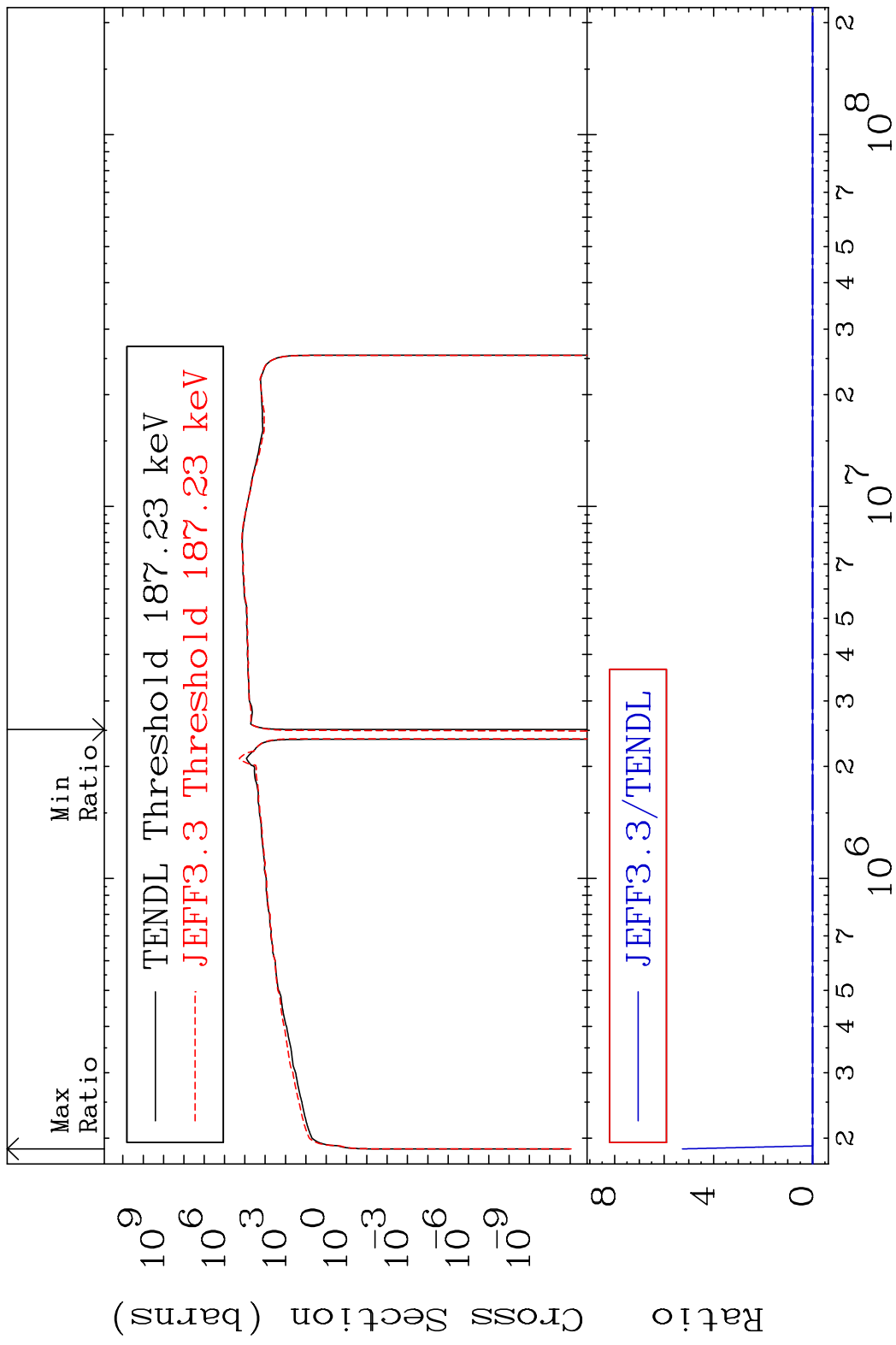
Kerma elastic Cross Section -11.15 To 9999. %
81-T1-202



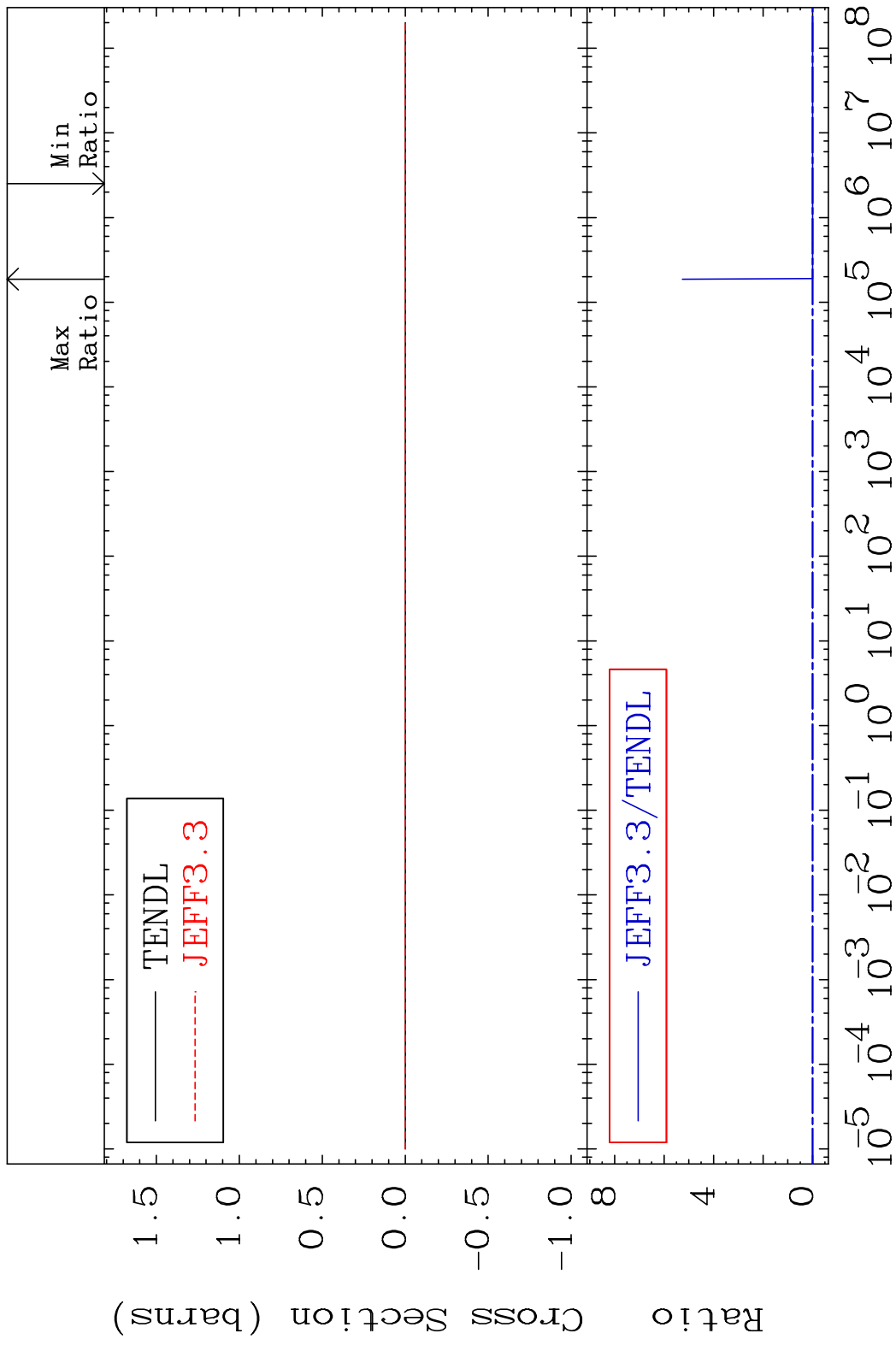
MAT 8122 Kerma non-elastic (all but mt2) 81-T1-202
 Cross Section -818.7 To 9999. %



MAT 8122 Kerma inelastic (mt51-91) 81-Tl-202
 Cross Section -811.8 To 9999. %

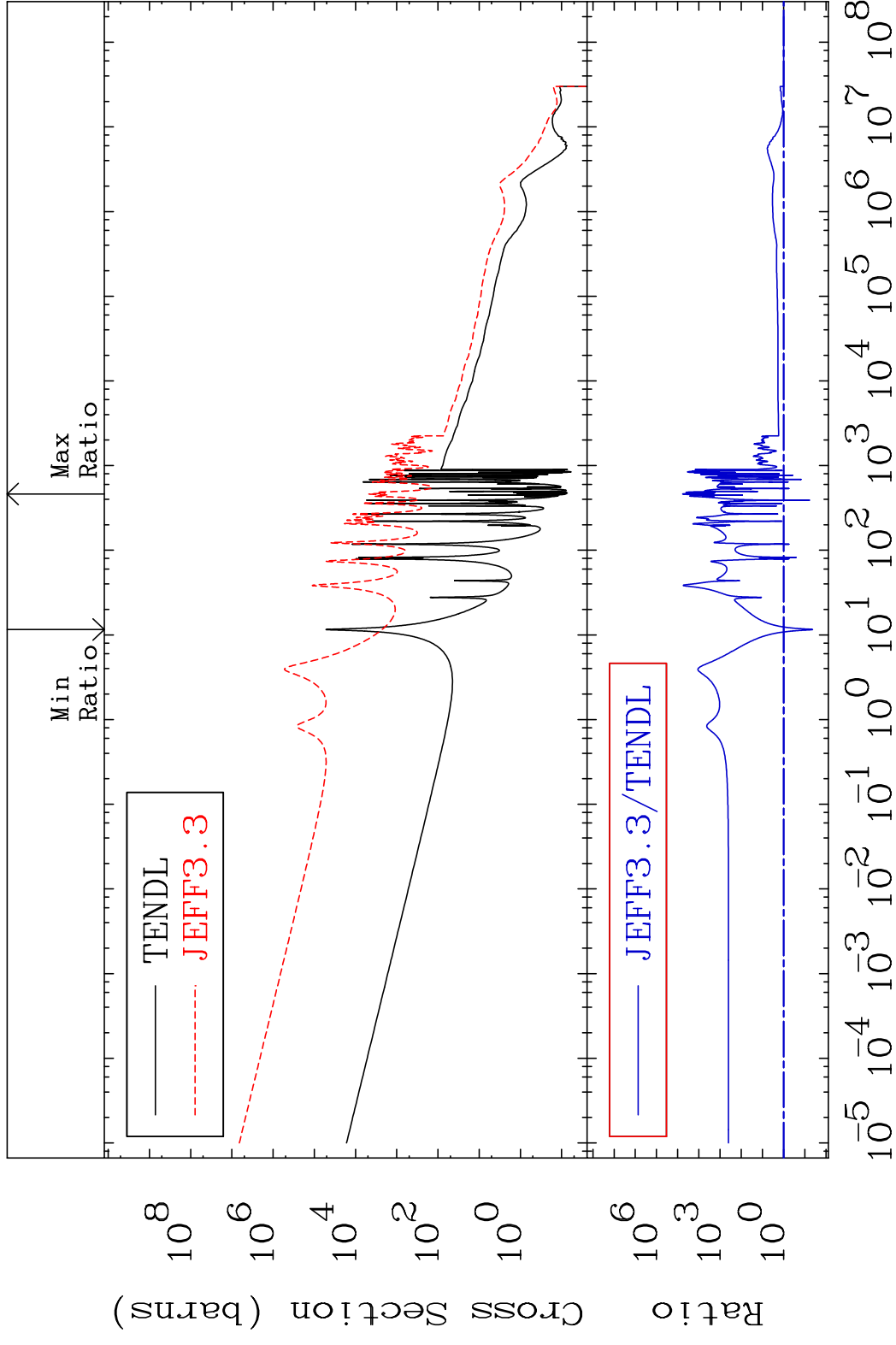


MAT 8122 Kerma fission (mt18 or mt19-20-21-38) 81-Tl-202
 Cross Section -811.8 To 9999. %



MAT 8122

Kerma capture (mt102) 81-T1-202
Cross Section -95.65 To 9999. %

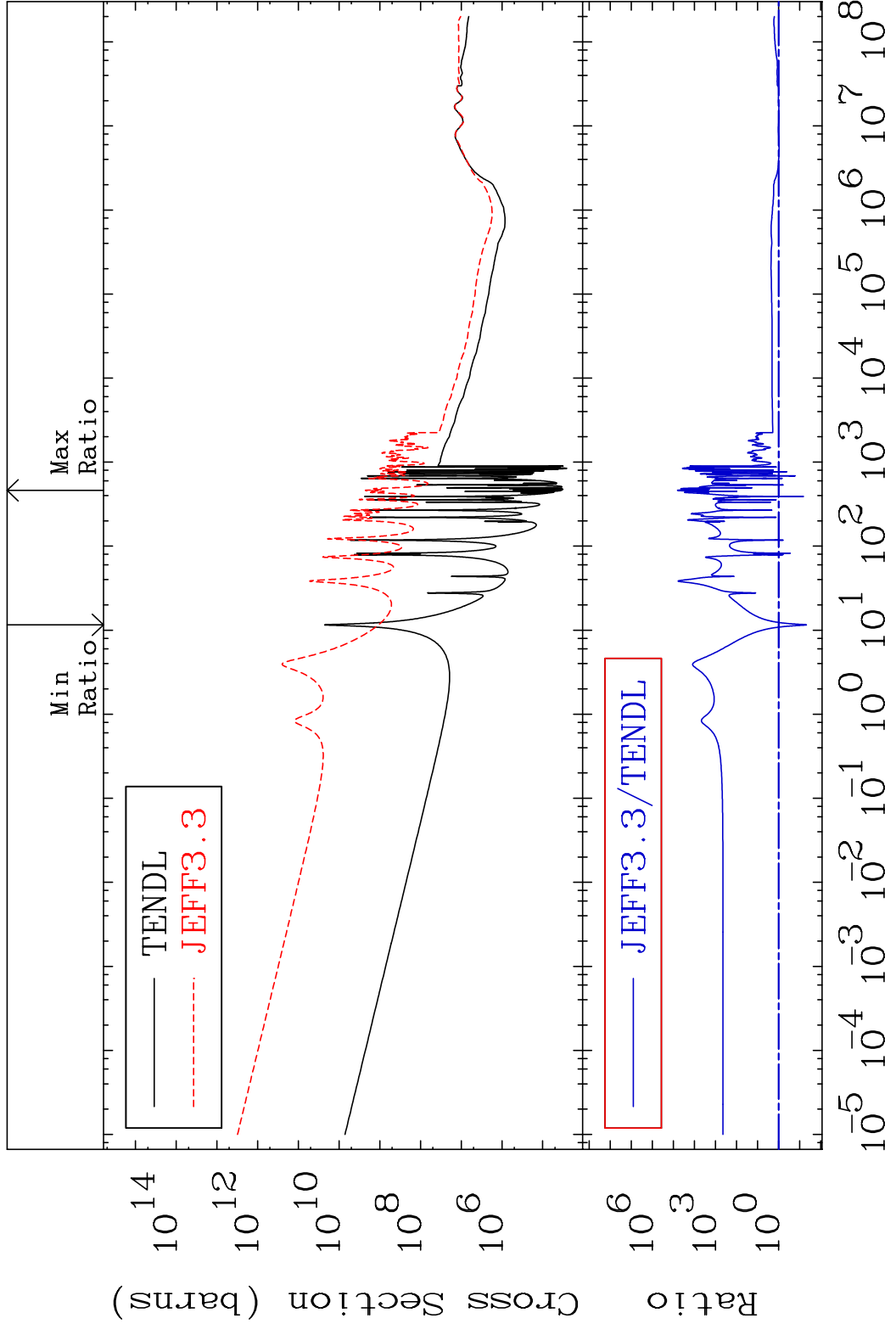


65

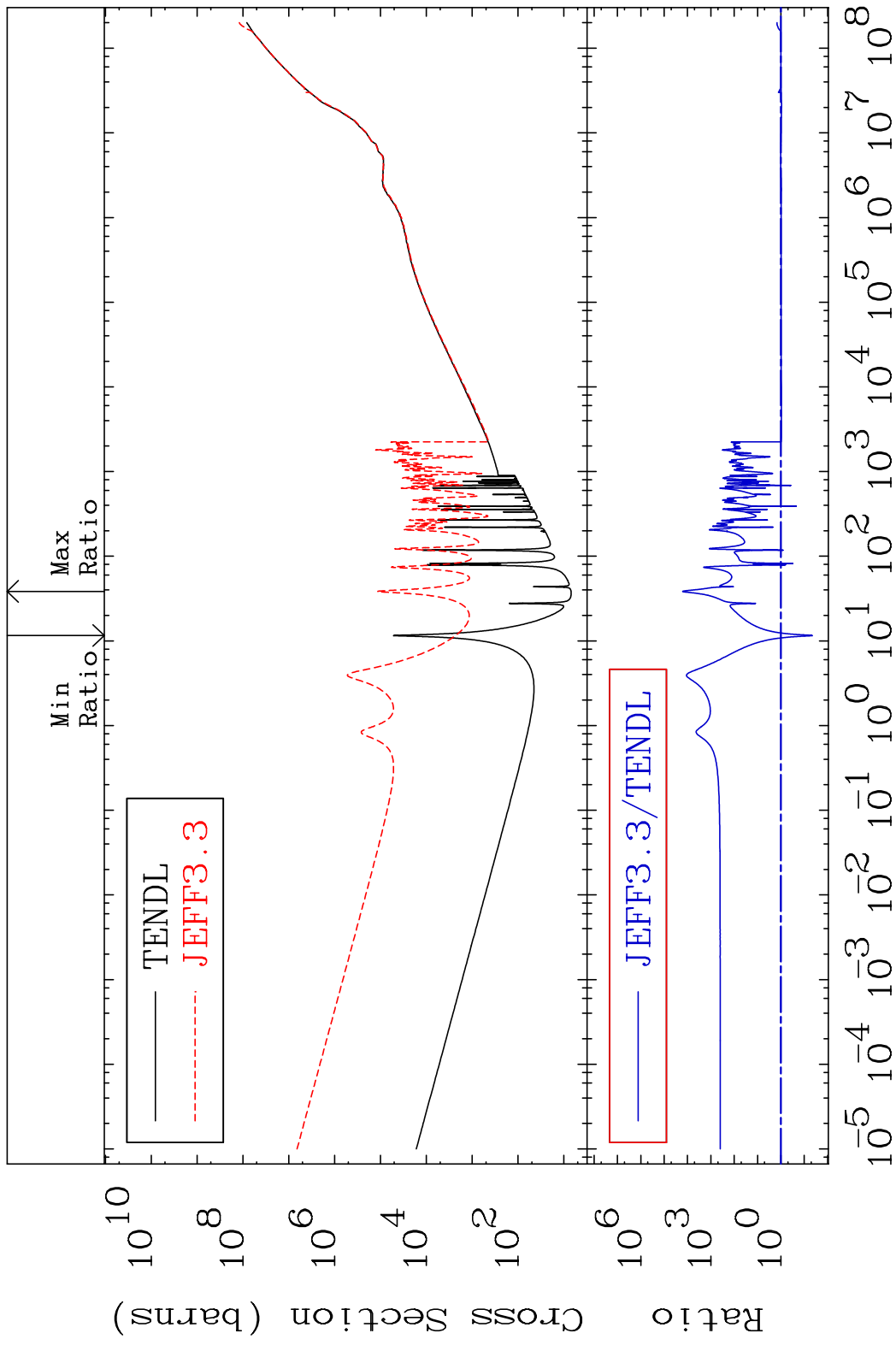
Incident Energy (eV) 81-T1-202

MAT 8122

Total photon (eV-barns) 81-T1-202
Cross Section -95.24 To 9999. %



MAT 8122 Total kinematic kerma (high limit) 81-T1-202
 Cross Section -95.60 To 9999. %

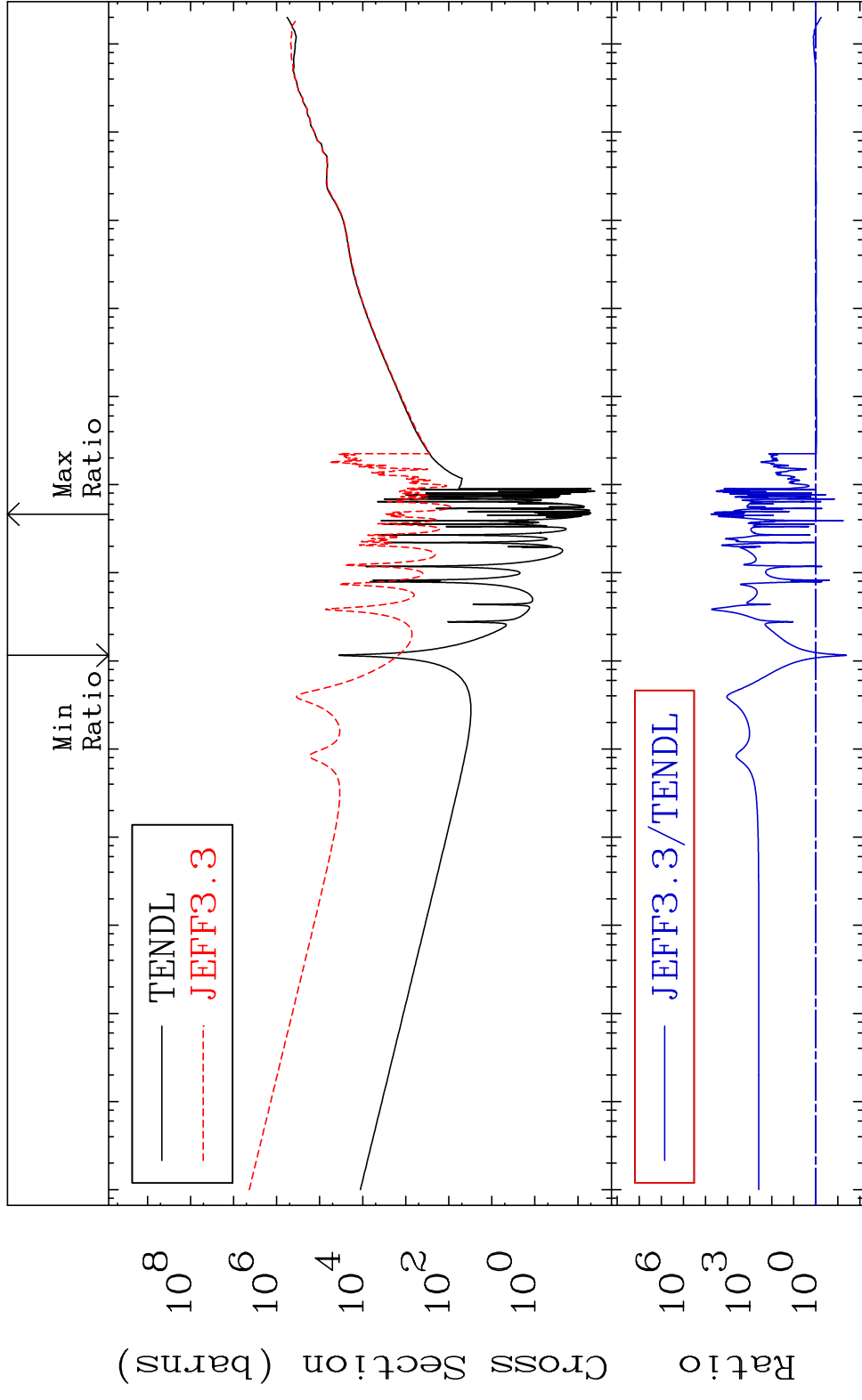


MAT 8122

Dpa total (eV-barns)

81-T1-202

Cross Section -95.83 To 9999. %

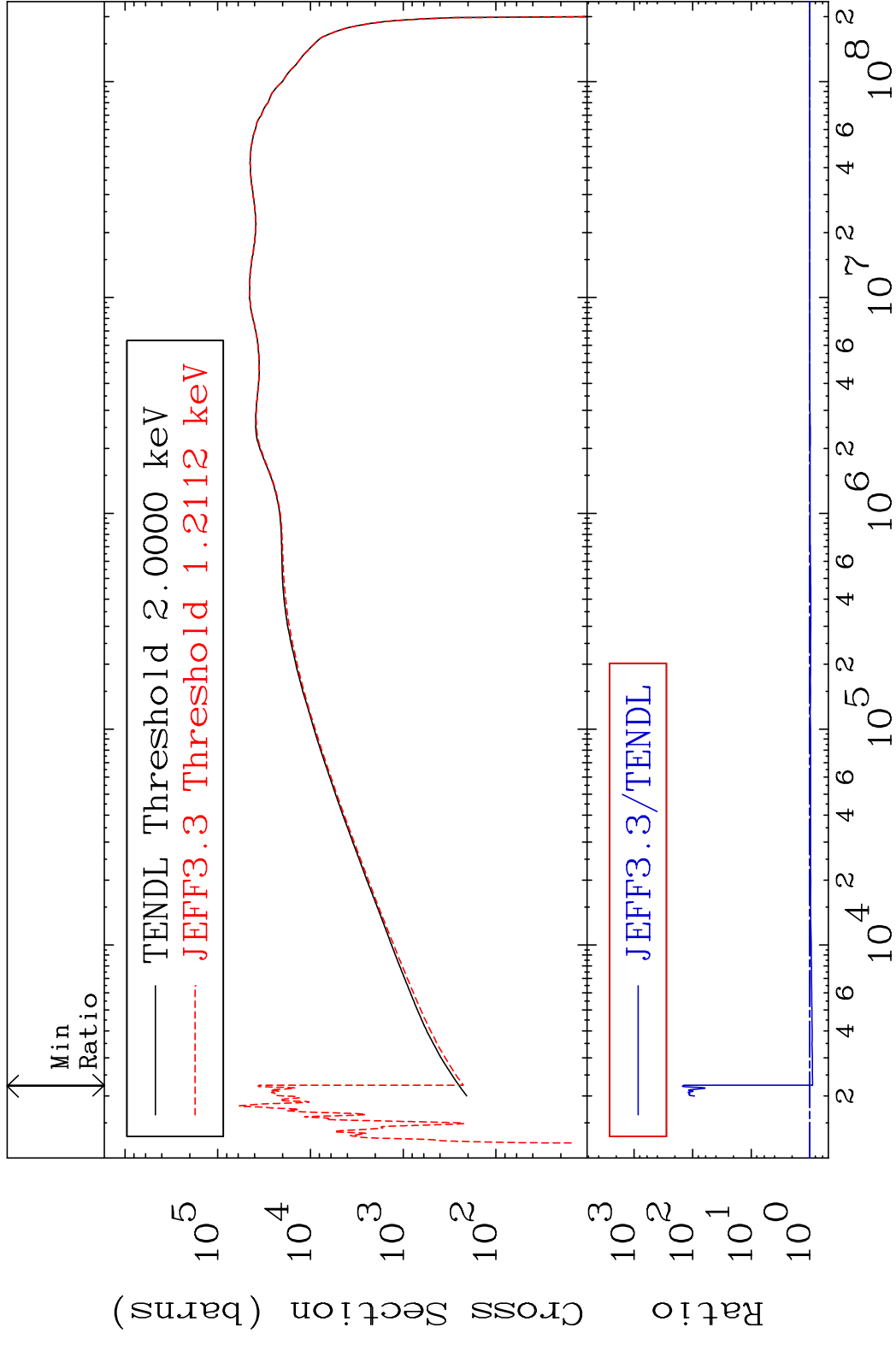


MAT 8122

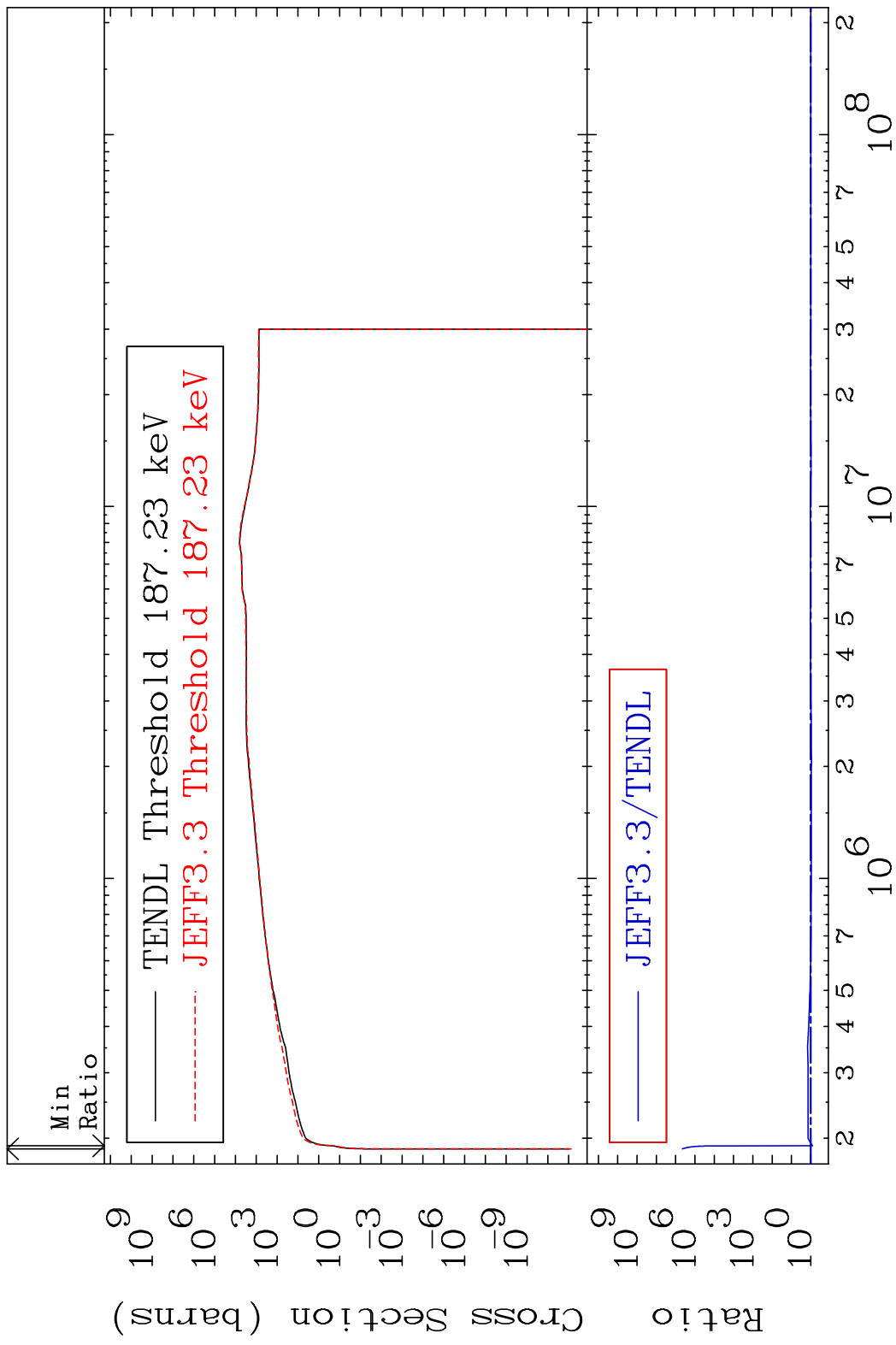
Dpa elastic (mt2)

81-T1-202

Cross Section -10.51 To 9999. %



MAT 8122 Dpa inelastic (mt51-91) 81-T1-202
 Cross Section -19.00 To 9999. %



MAT 8122 Dpa disappearance (mt102 -120) 81-T1-202
 Cross Section -95.83 To 9999. %

