

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

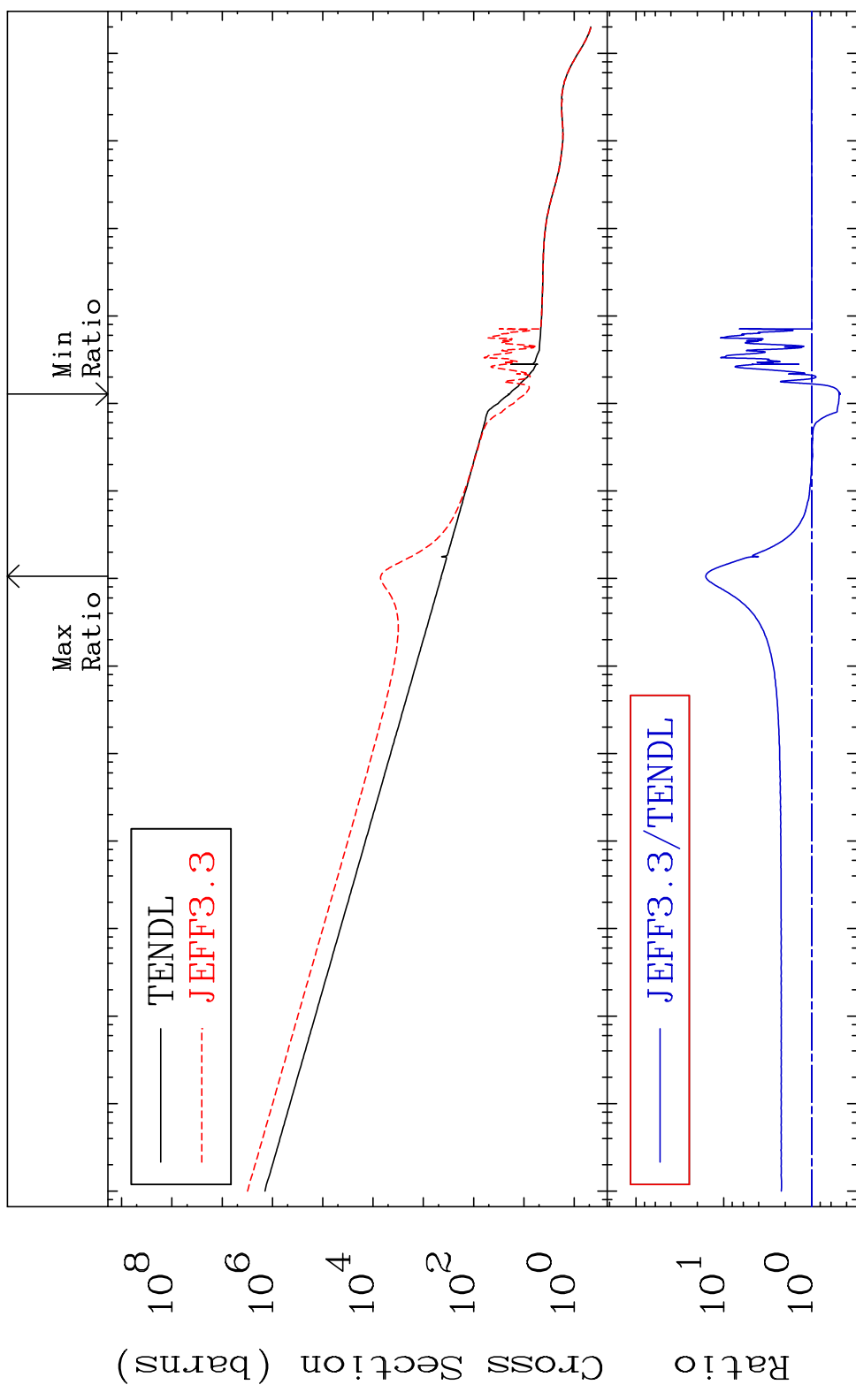
Press Mouse Button to Start

MAT 1122

Total

11-Na-22

Cross Section -52.99 To 1504. %



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

1

Incident Energy (eV)

11-Na-22

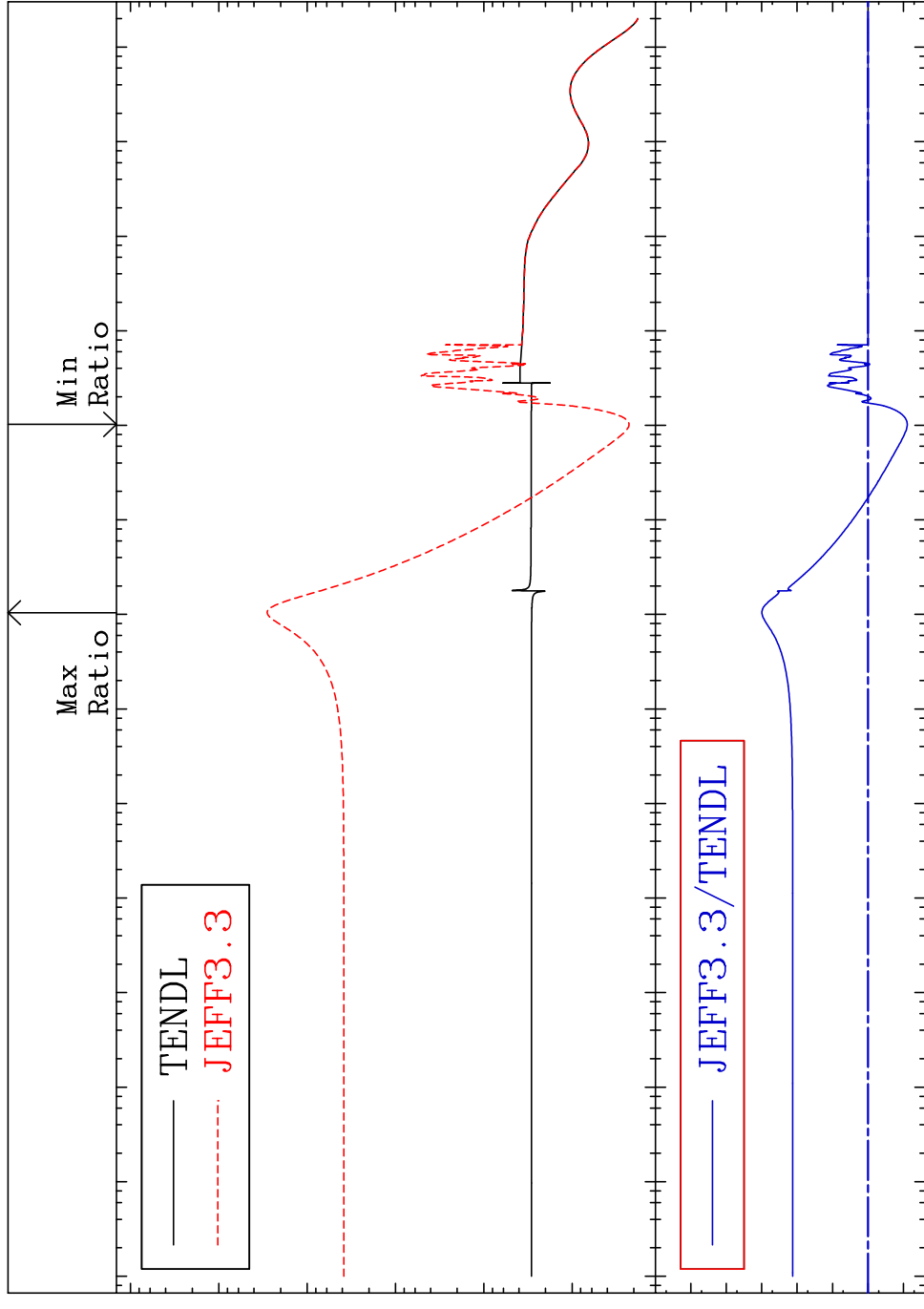
MAT 1122

Elastic

11-Na-22

Cross Section

-92.19 To 9999. %



Cross Section (barns)

Ratio

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

2

Incident Energy (eV)

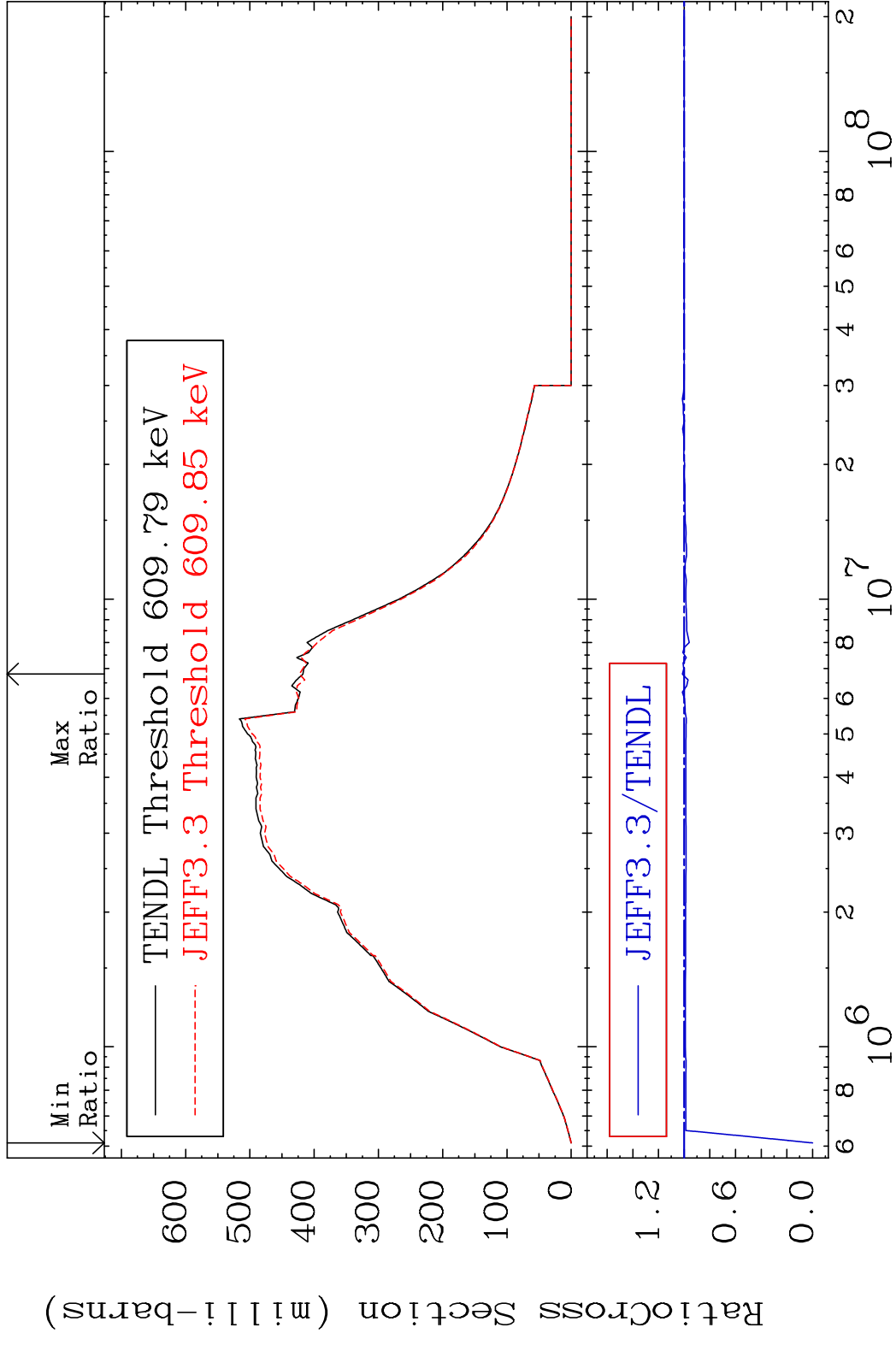
11-Na-22

MAT 1122

Inelastic

11-Na-22

Cross Section -100.0 To 1.408 %



3

Incident Energy (eV)

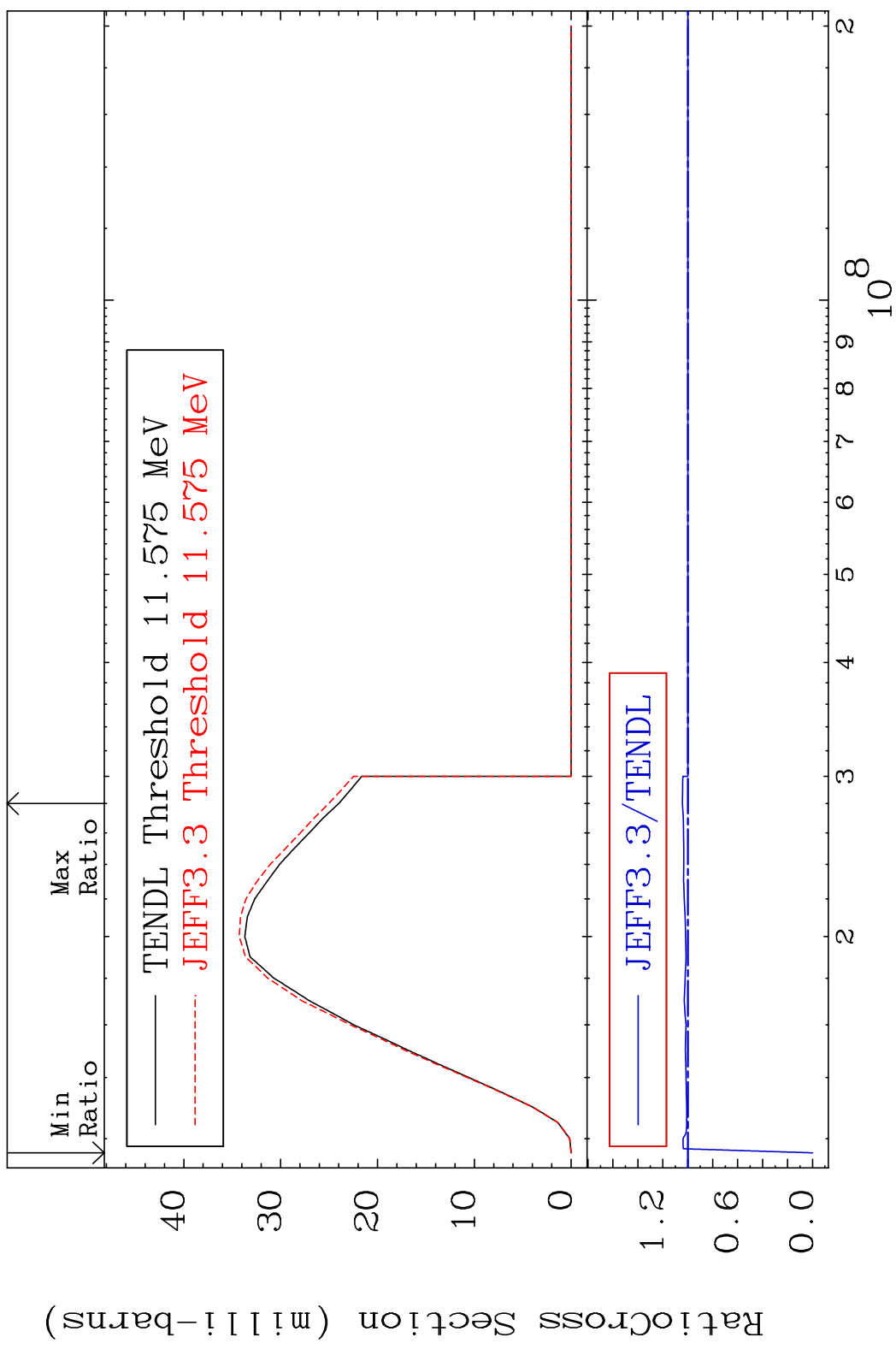
11-Na-22

MAT 1122

(n,2n)

11-Na-22

Cross Section -100.0 To 4.341 %



4

Incident Energy (eV)

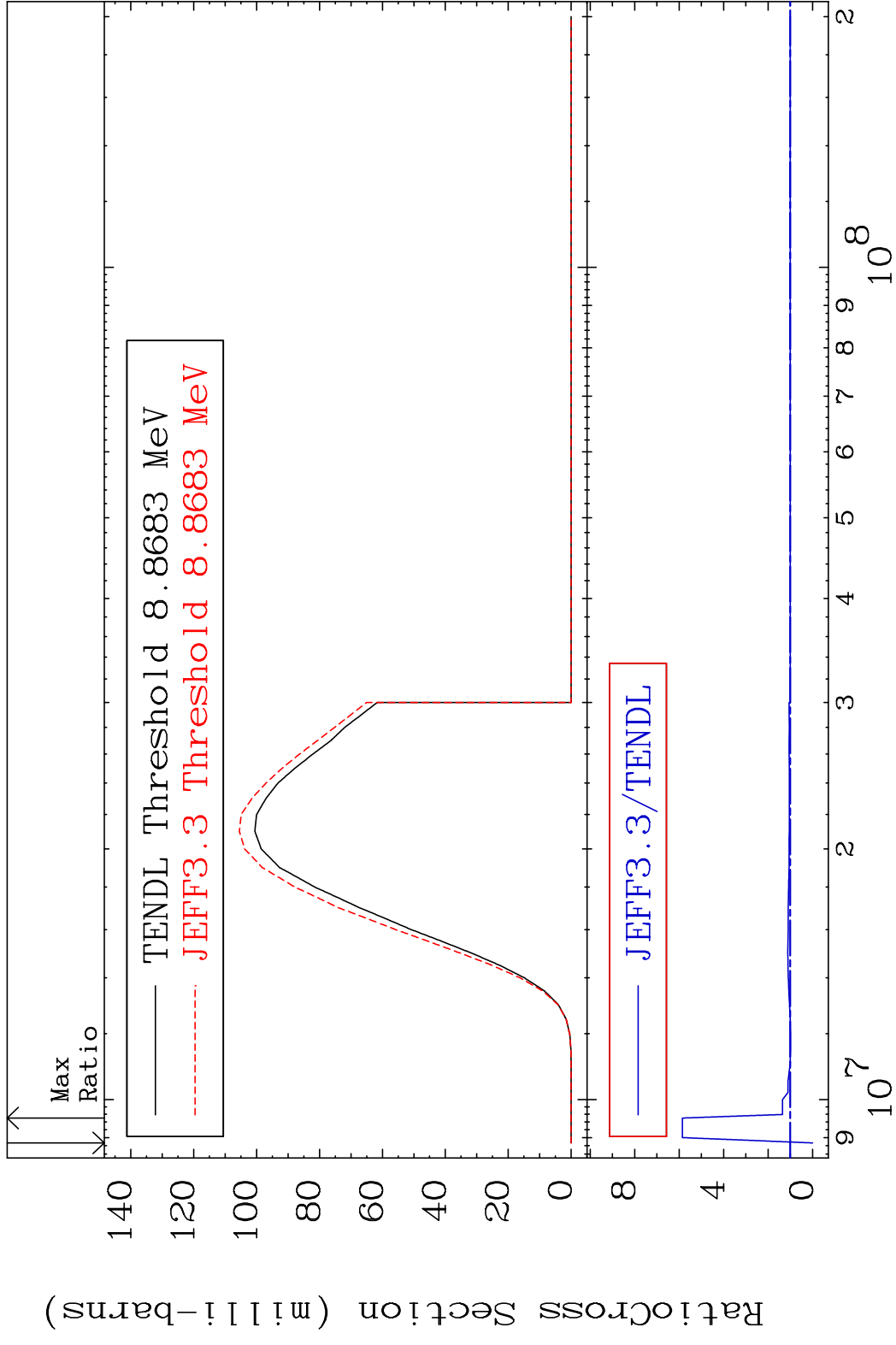
11-Na-22

MAT 1122

(n, n') α

11-Na-22

Cross Section -100.0 To 485.6 %

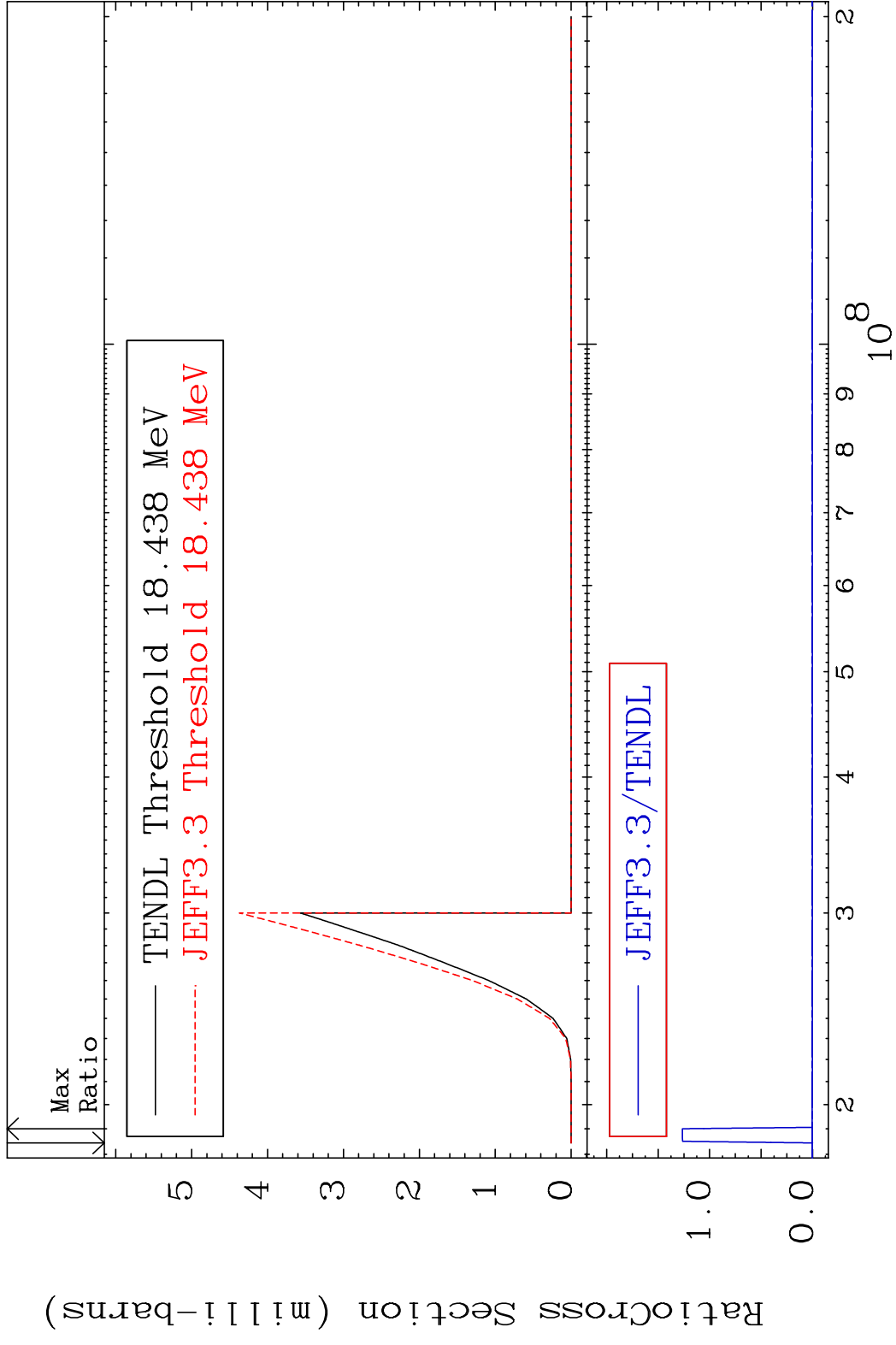


5

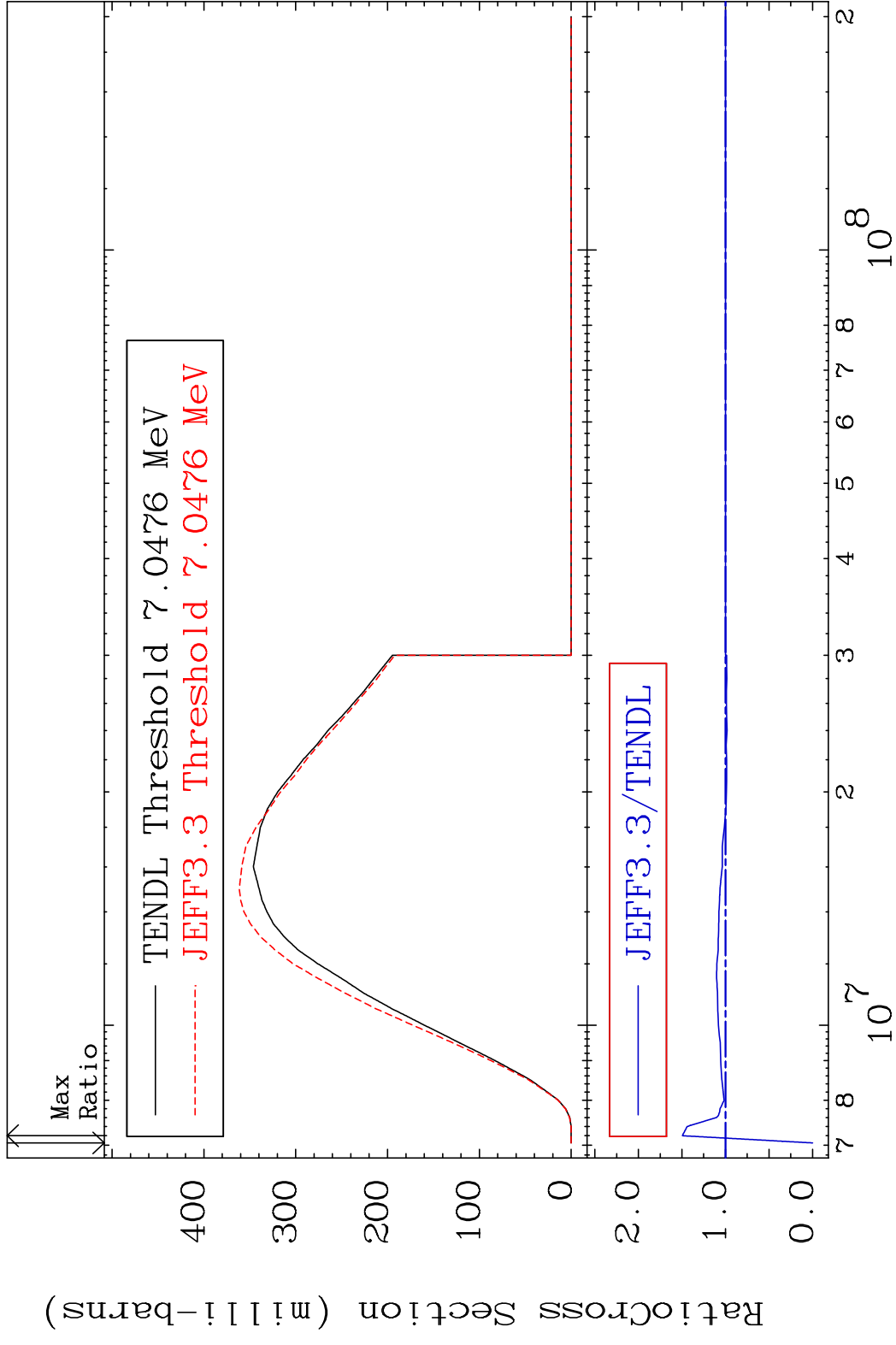
Incident Energy (eV)

11-Na-22

MAT 1122 (n,2n) α 11-Na-22
 Cross Section -100.0 To 9999. %



MAT 1122 (n, n') p 11-Na-22
 Cross Section -100.0 To 49.51 %



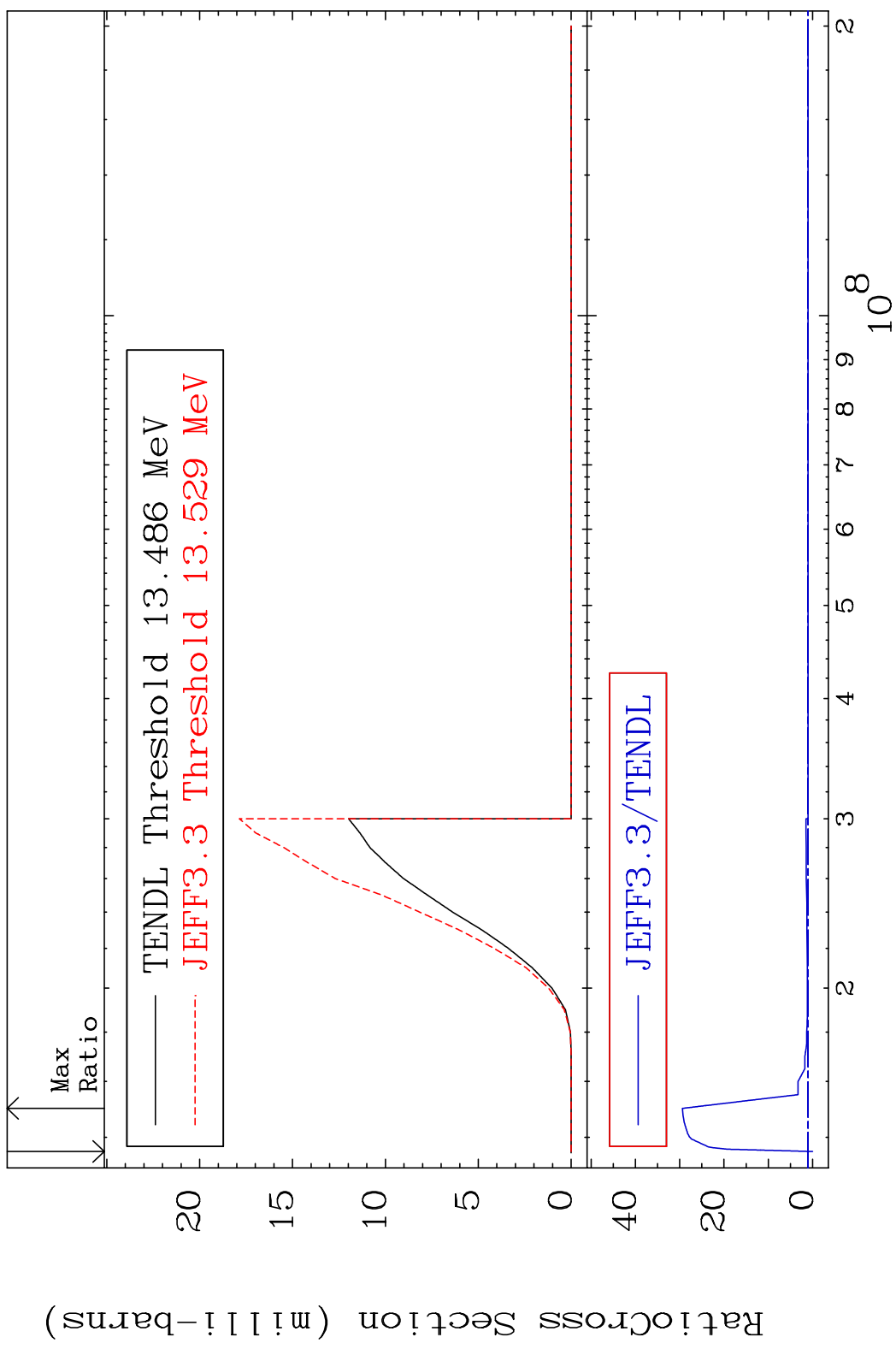
7 Incident Energy (eV) 11-Na-22

MAT 1122

(n, n') 2α

11-Na-22

Cross Section -100.0 To 2841. %

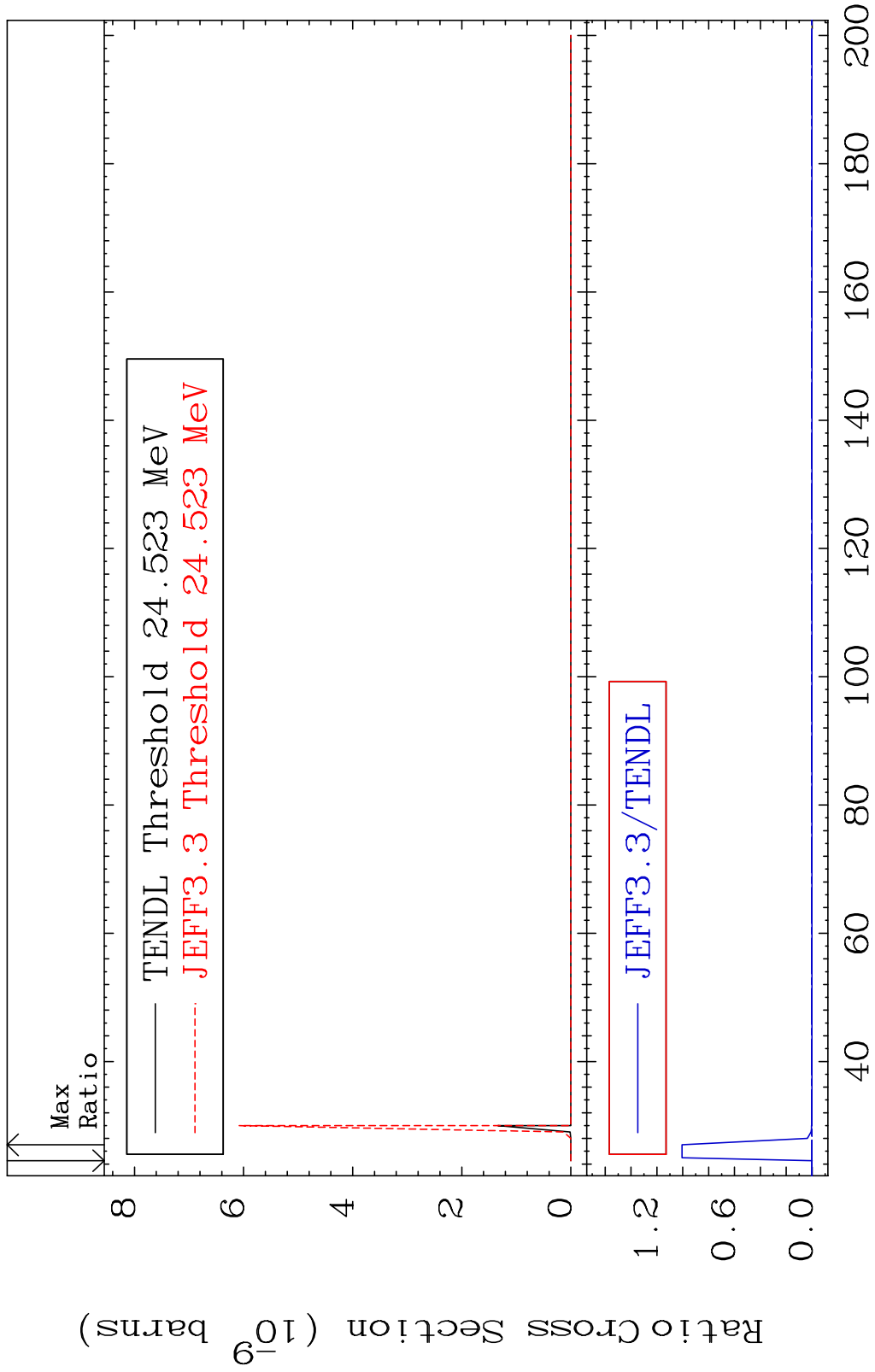


8

Incident Energy (eV)

11-Na-22

MAT 1122 (n,2n) 2α 11-Na-22
 Cross Section -100.0 To 9999. %

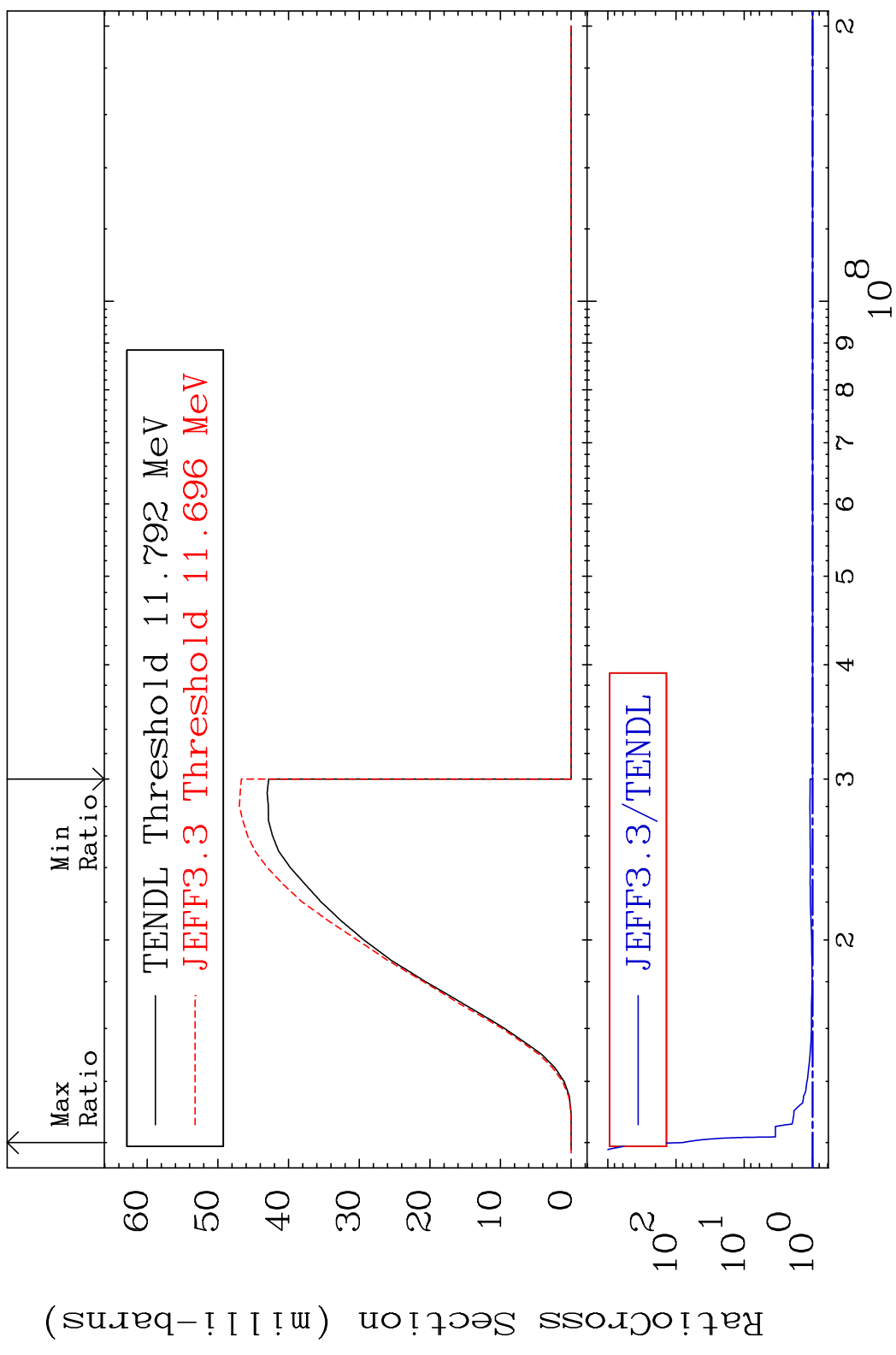


MAT 1122

(n, n') d

11-Na-22

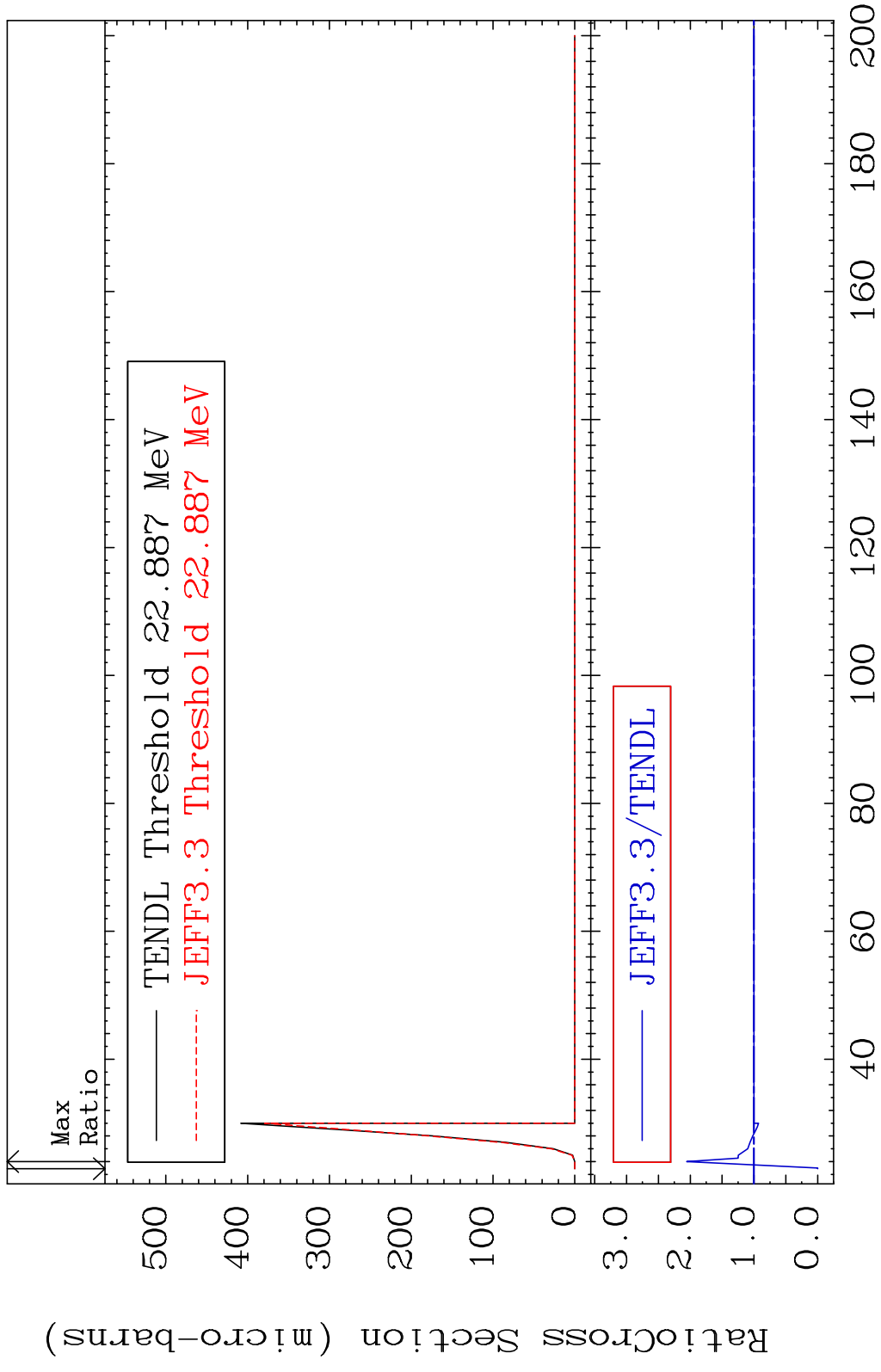
Cross Section 0.000 To 7979. %



10

Incident Energy (eV)

11-Na-22



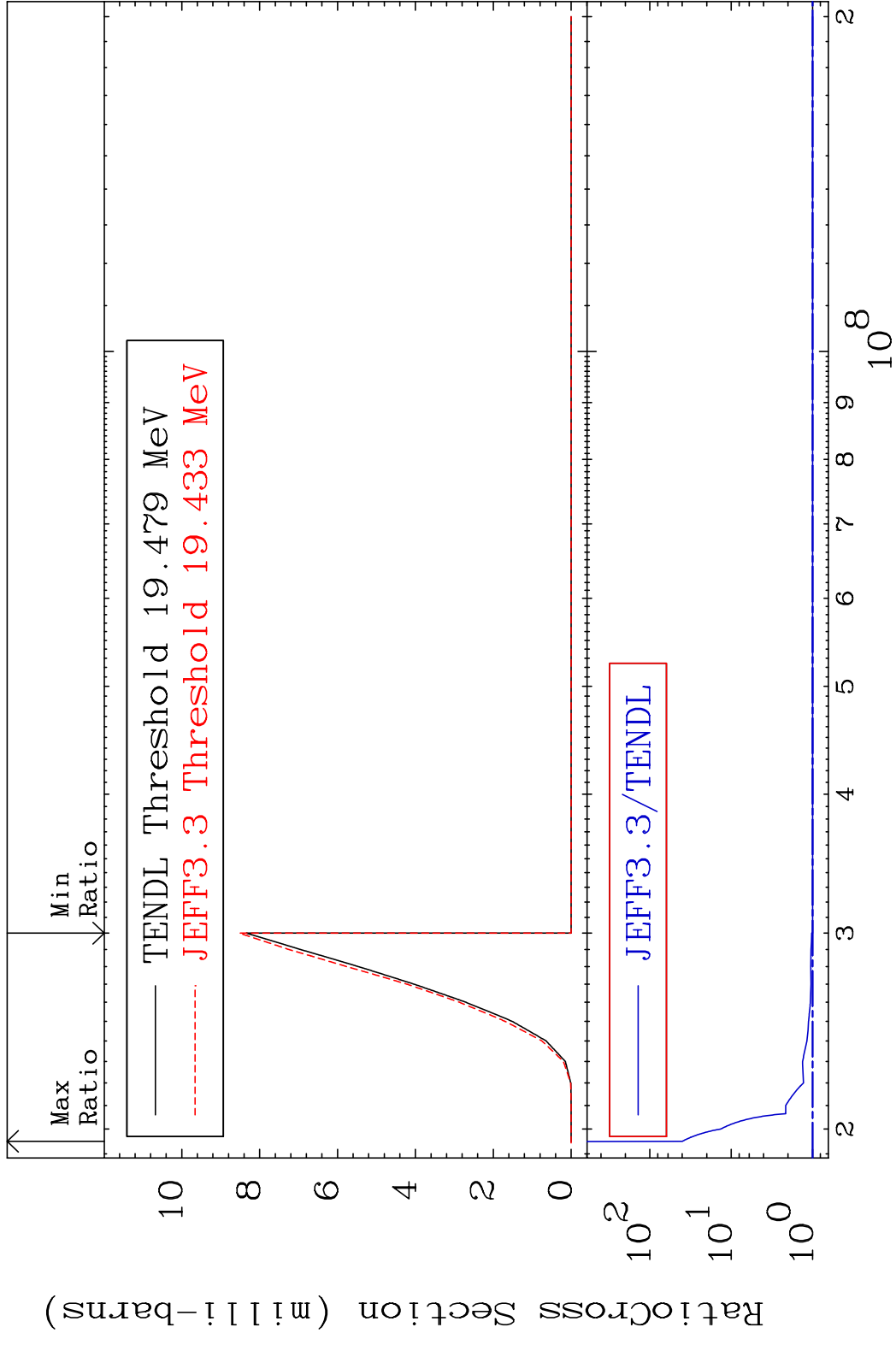
MAT 1122

(n,n') He-3

11-Na-22

Cross Section 0.000

To 3887. %



12

Incident Energy (eV)

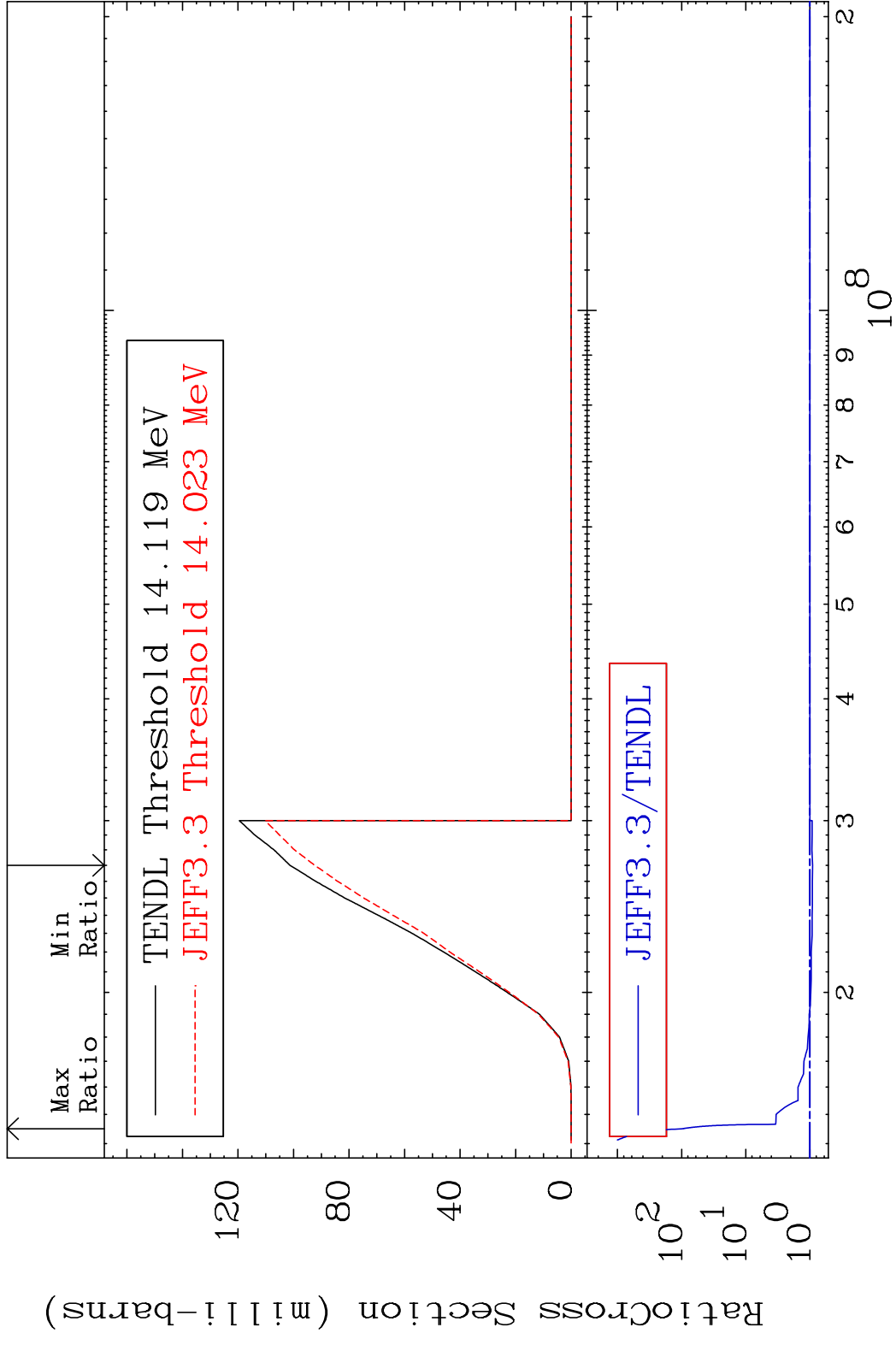
11-Na-22

MAT 1122

(n,2n) p

11-Na-22

Cross Section -8.828 To 9649. %

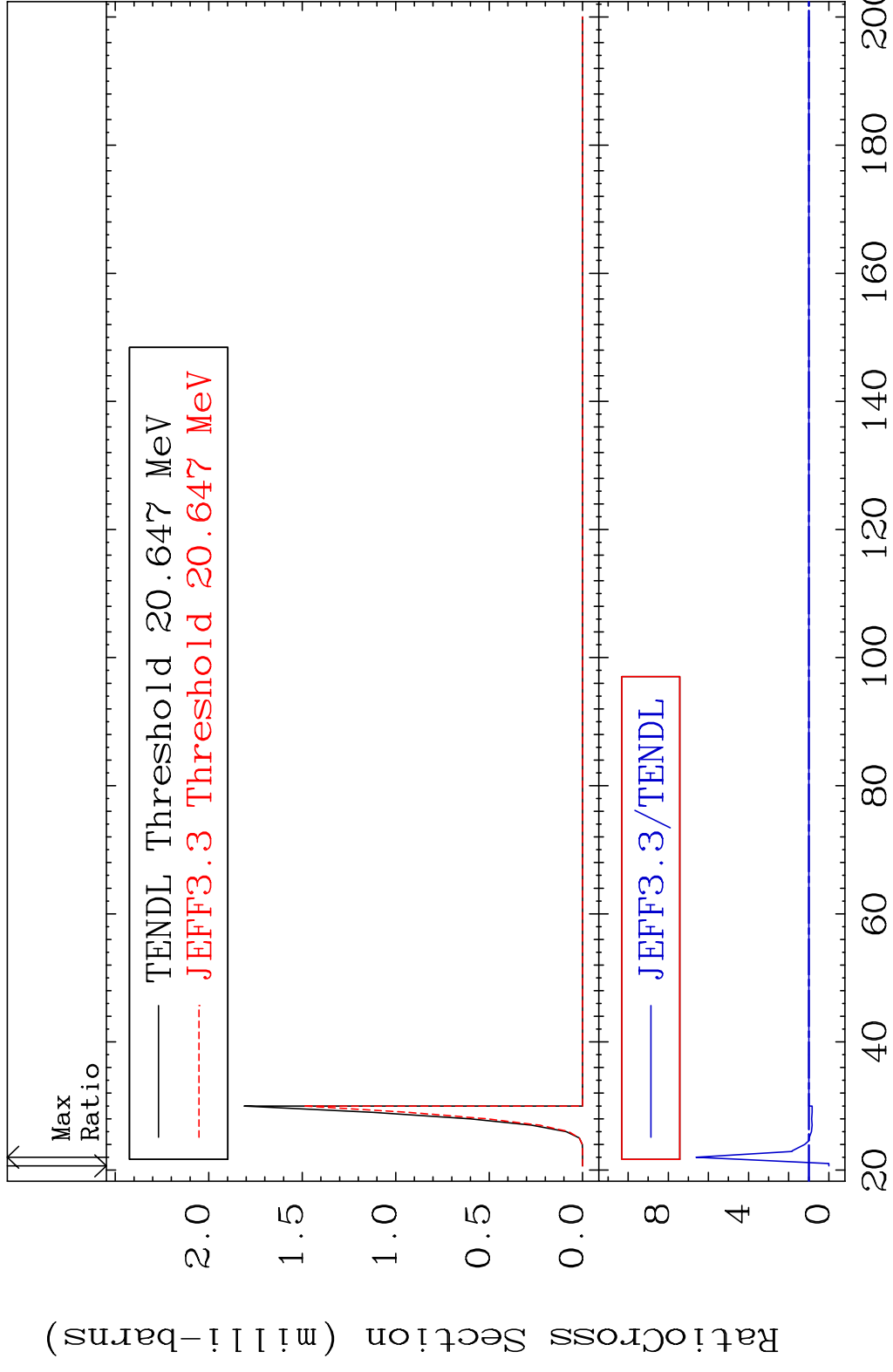


MAT 1122

(n,2n) p

11-Na-22

Cross Section -100.0 To 561.9 %



14

Incident Energy (MeV)

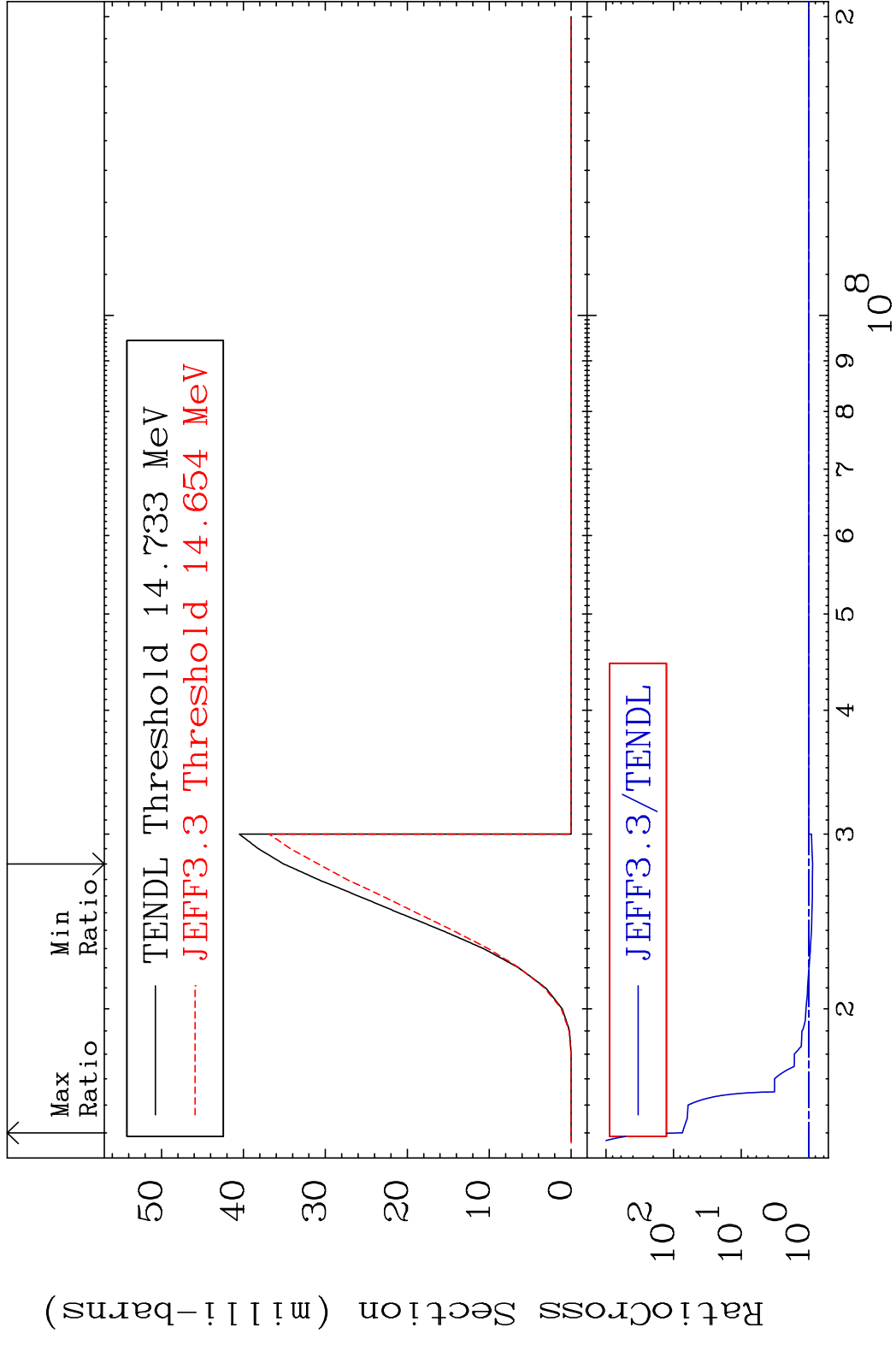
11-Na-22

MAT 1122

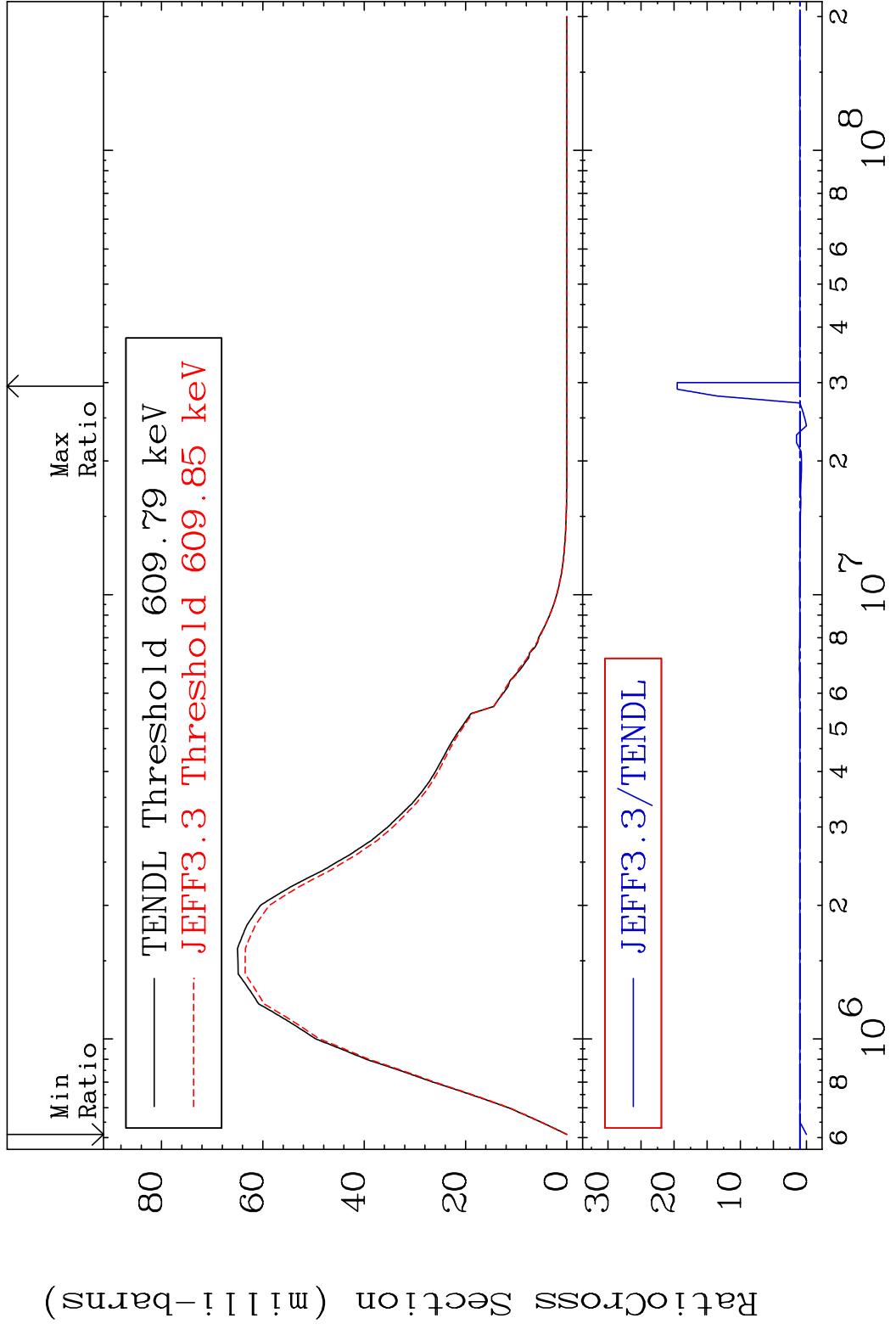
(n, n') p α

11-Na-22

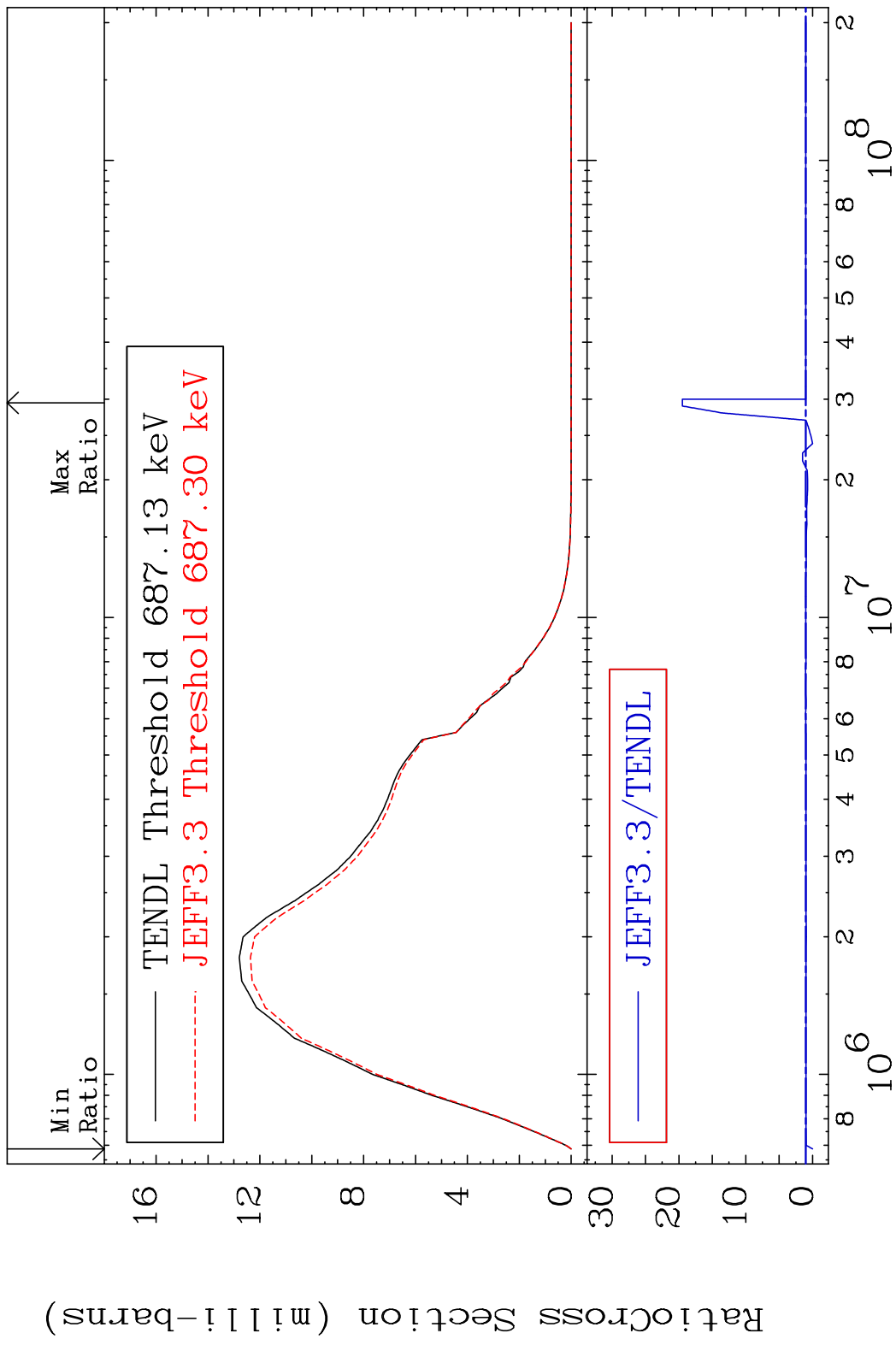
Cross Section -12.04 To 7314. %



MAT 1122 MT= 51 (n, n') Level 11-Na-22
 Cross Section -100.0 To 1854. %

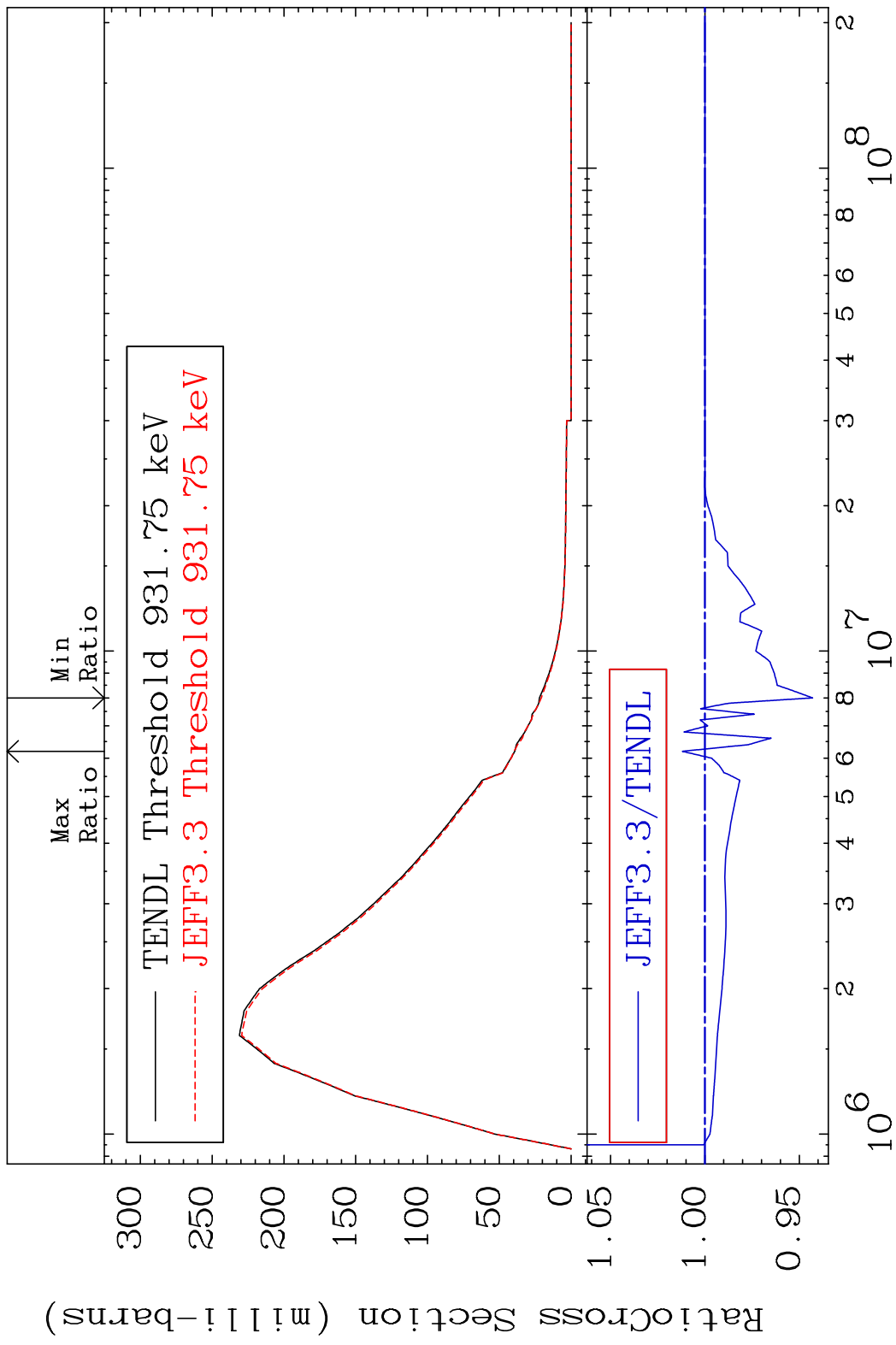


MAT 1122 MT= 52 (n, n') Level 11-Na-22
 Cross Section -100.0 To 1848. %

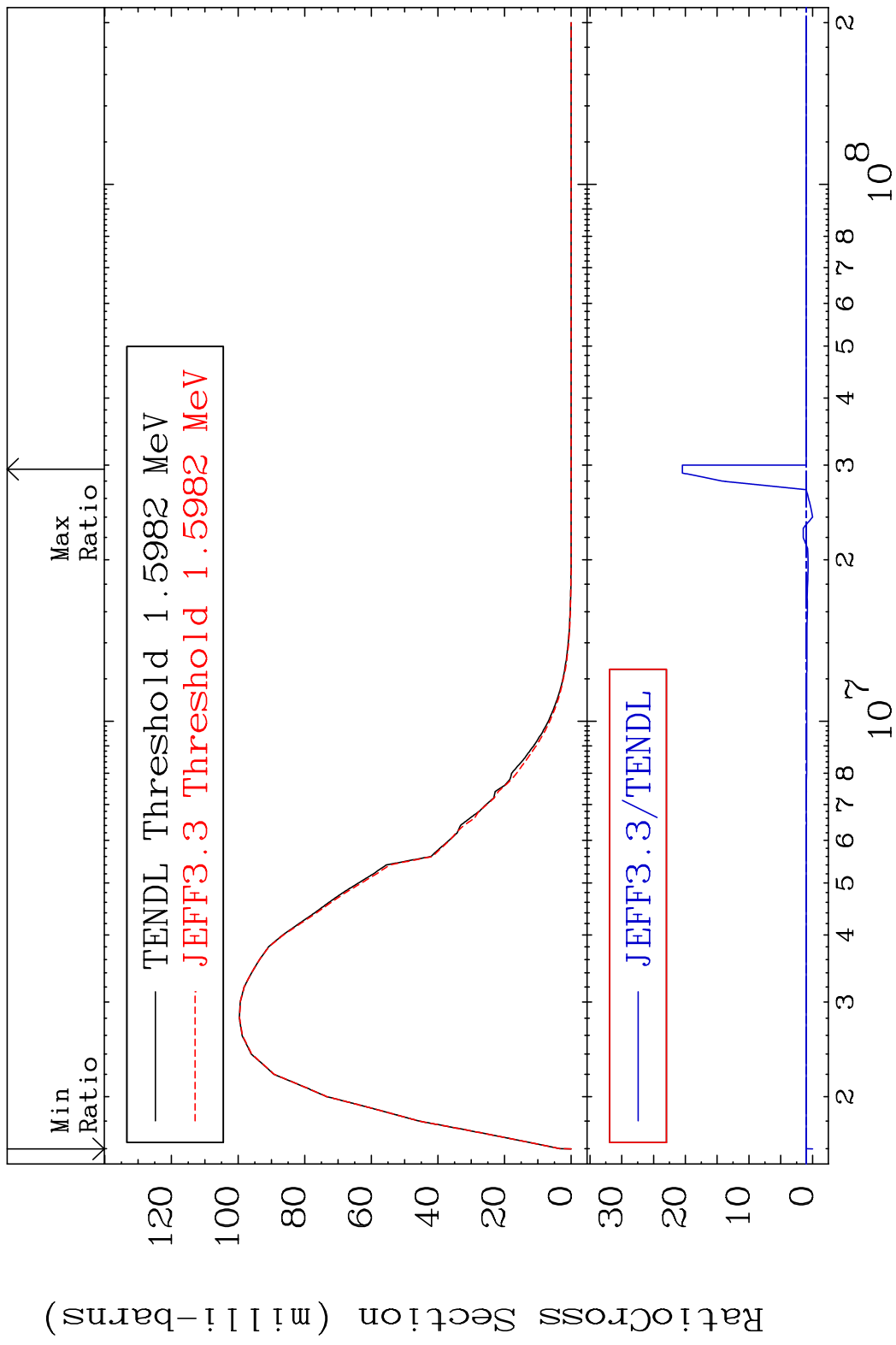


17 Incident Energy (eV) 11-Na-22

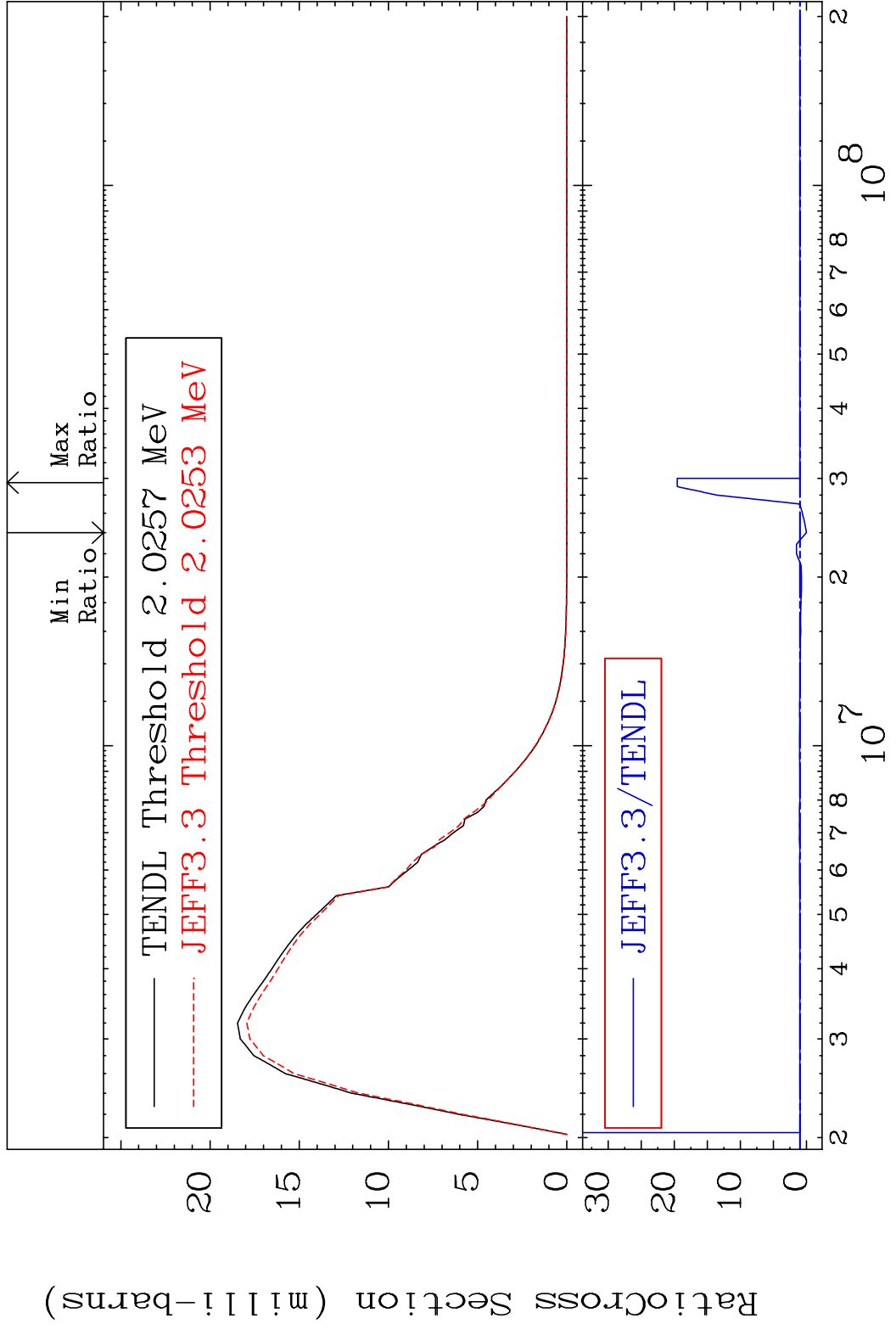
MAT 1122 MT= 53 (n, n') Level 11-Na-22
 Cross Section -5.703 To 1.193 %



MAT 1122 MT= 54 (n, n') Level 11-Na-22
 Cross Section -100.0 To 1947. %

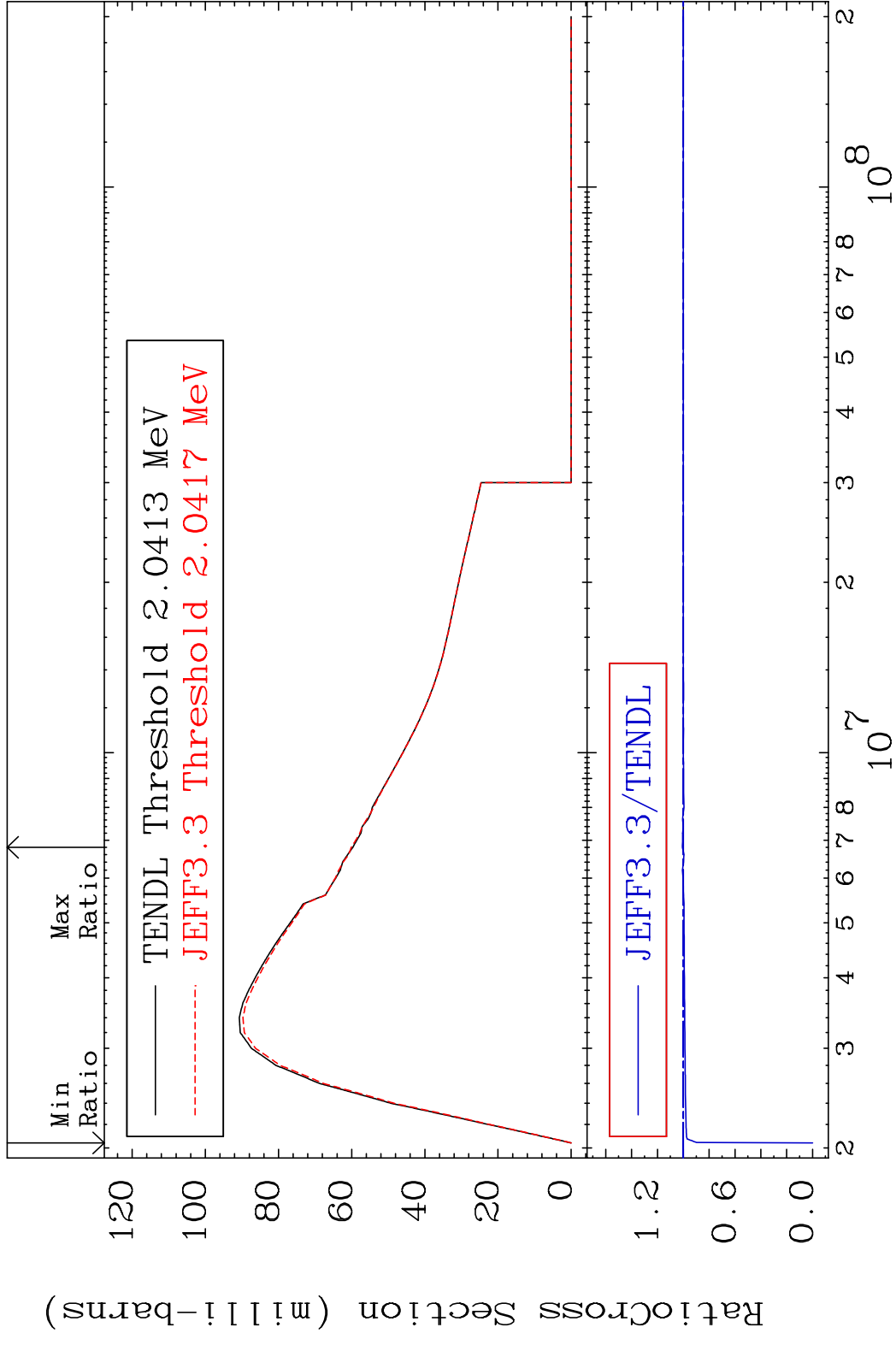


MAT 1122 MT= 55 (n, n') Level 11-Na-22
 Cross Section -100.0 To 1855. %

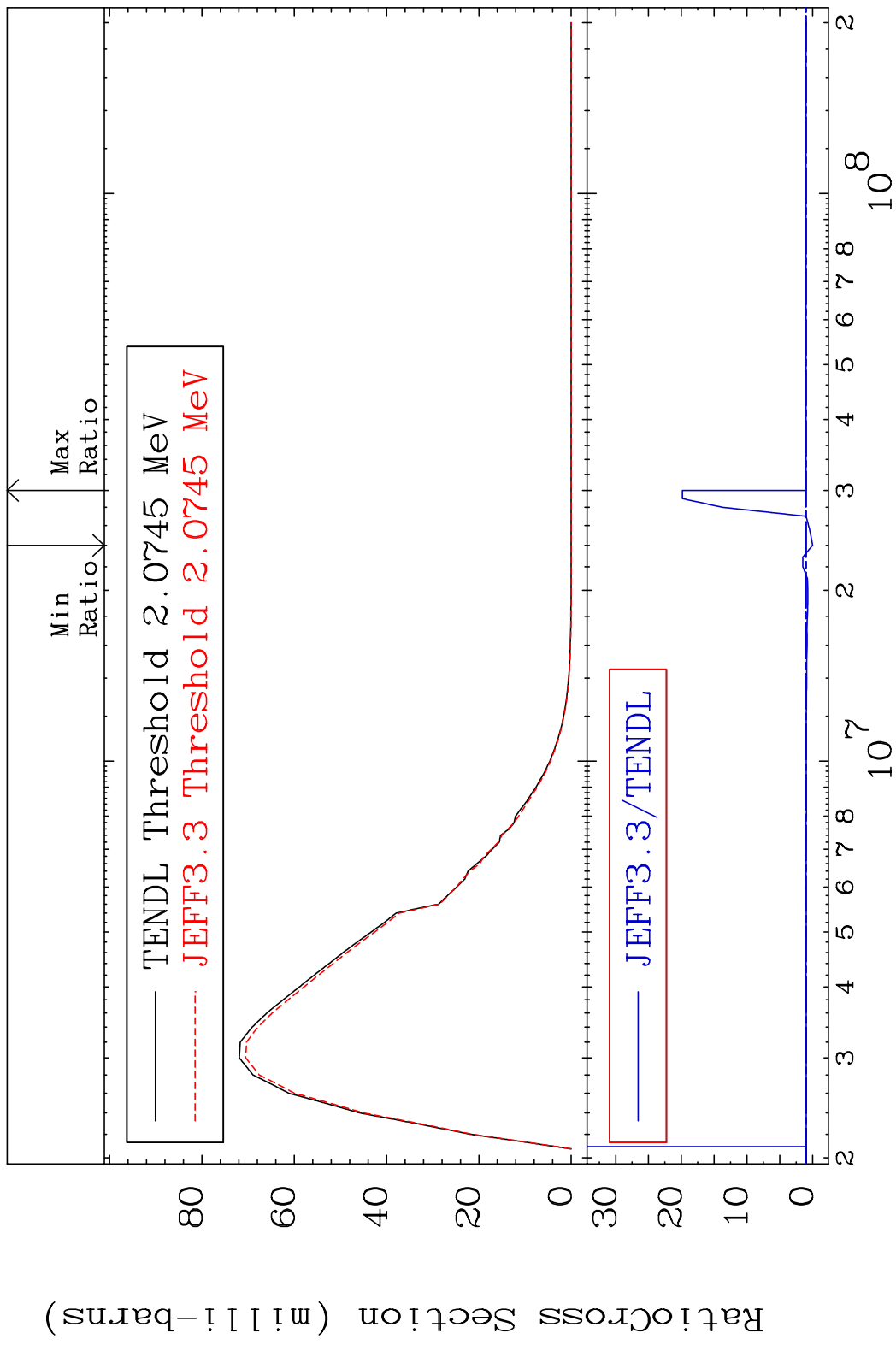


20 11-Na-22

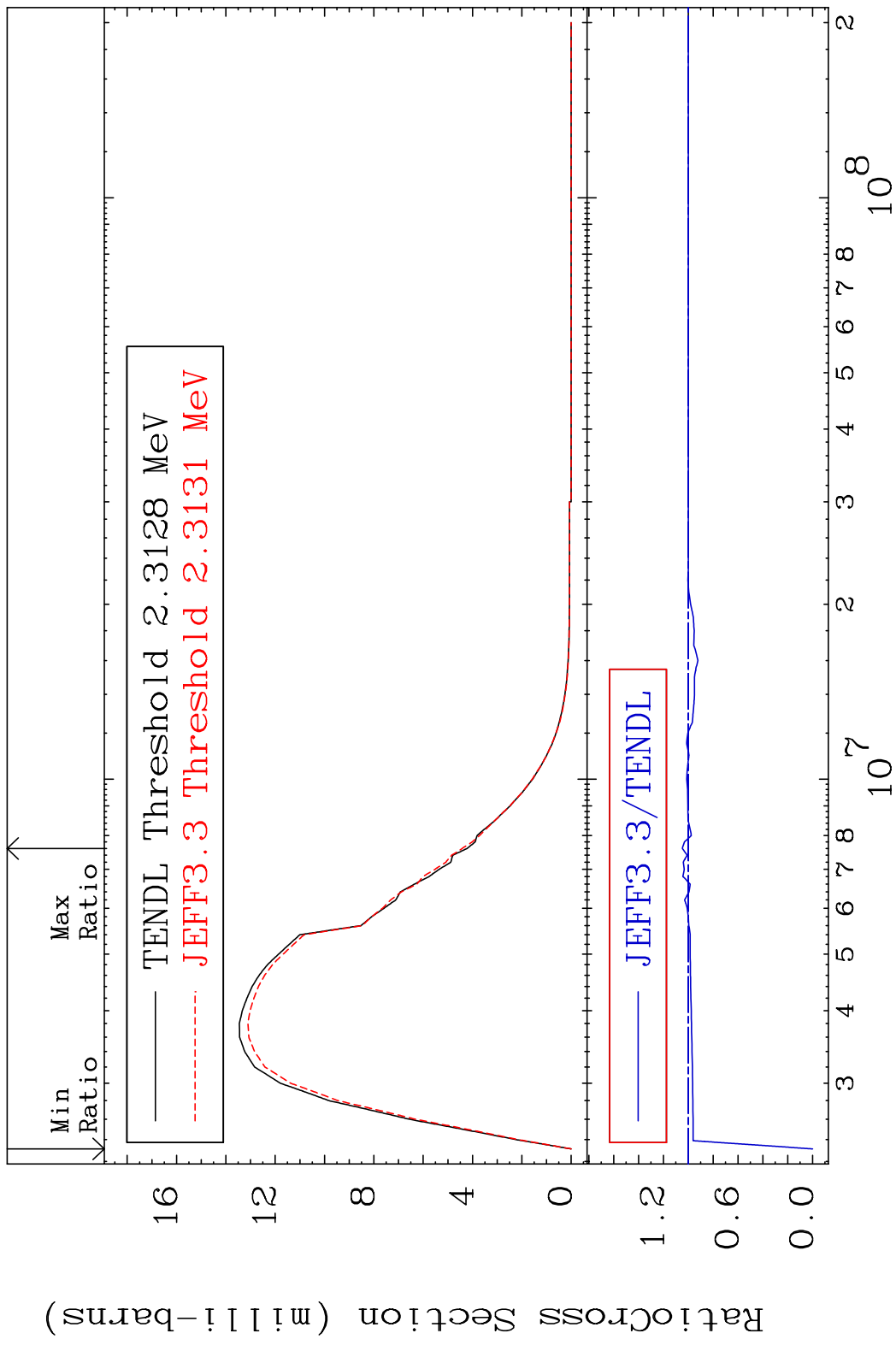
MAT 1122 MT= 56 (n, n') Level 11-Na-22
 Cross Section -100.0 To 0.720 %



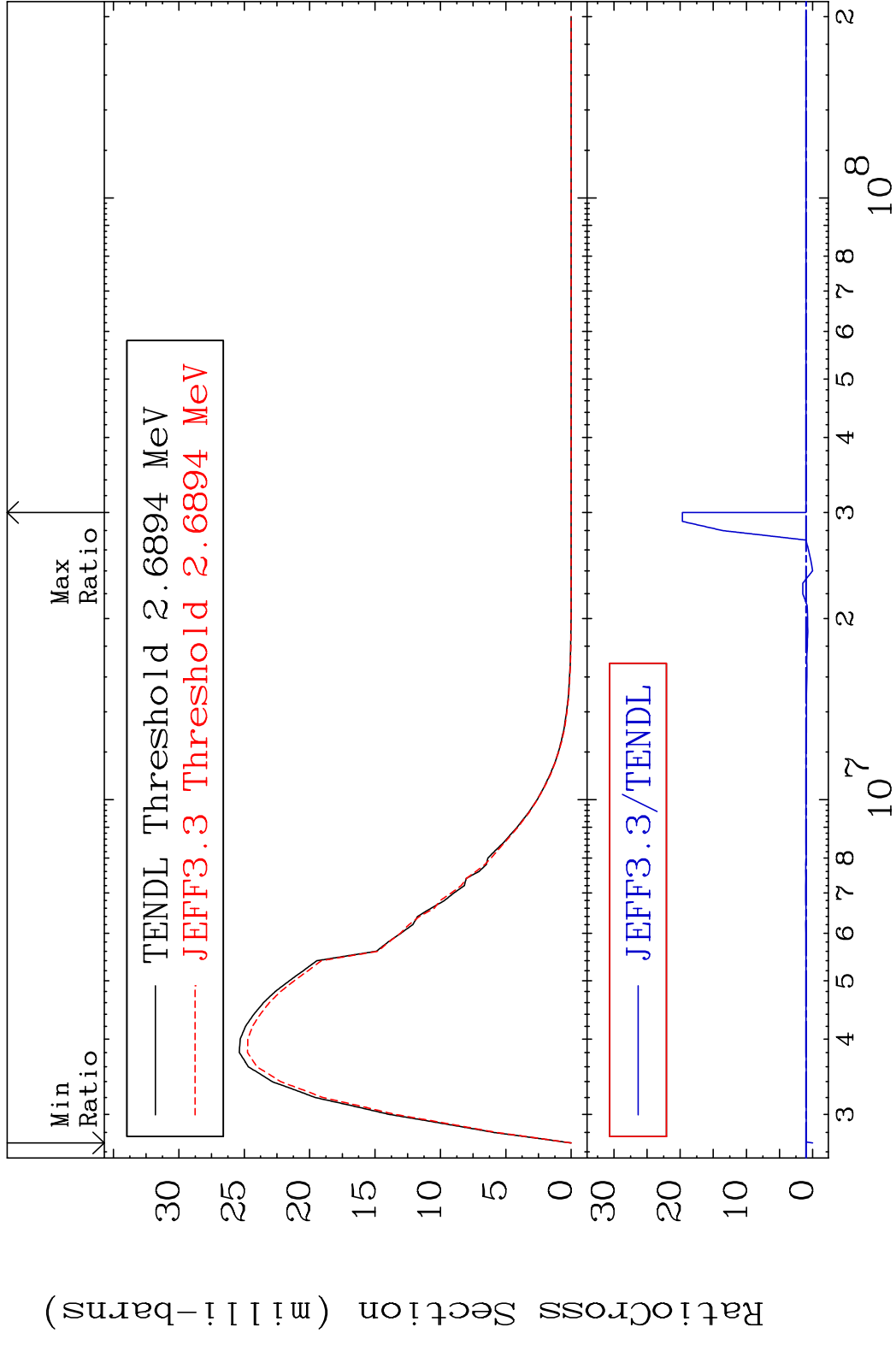
MAT 1122 MT= 57 (n, n') Level 11-Na-22
 Cross Section -100.0 To 1884. %



MAT 1122 MT= 58 (n, n') Level 11-Na-22
 Cross Section -100.0 To 4.746 %



MAT 1122 MT= 59 (n, n') Level 11-Na-22
 Cross Section -100.0 To 1867. %

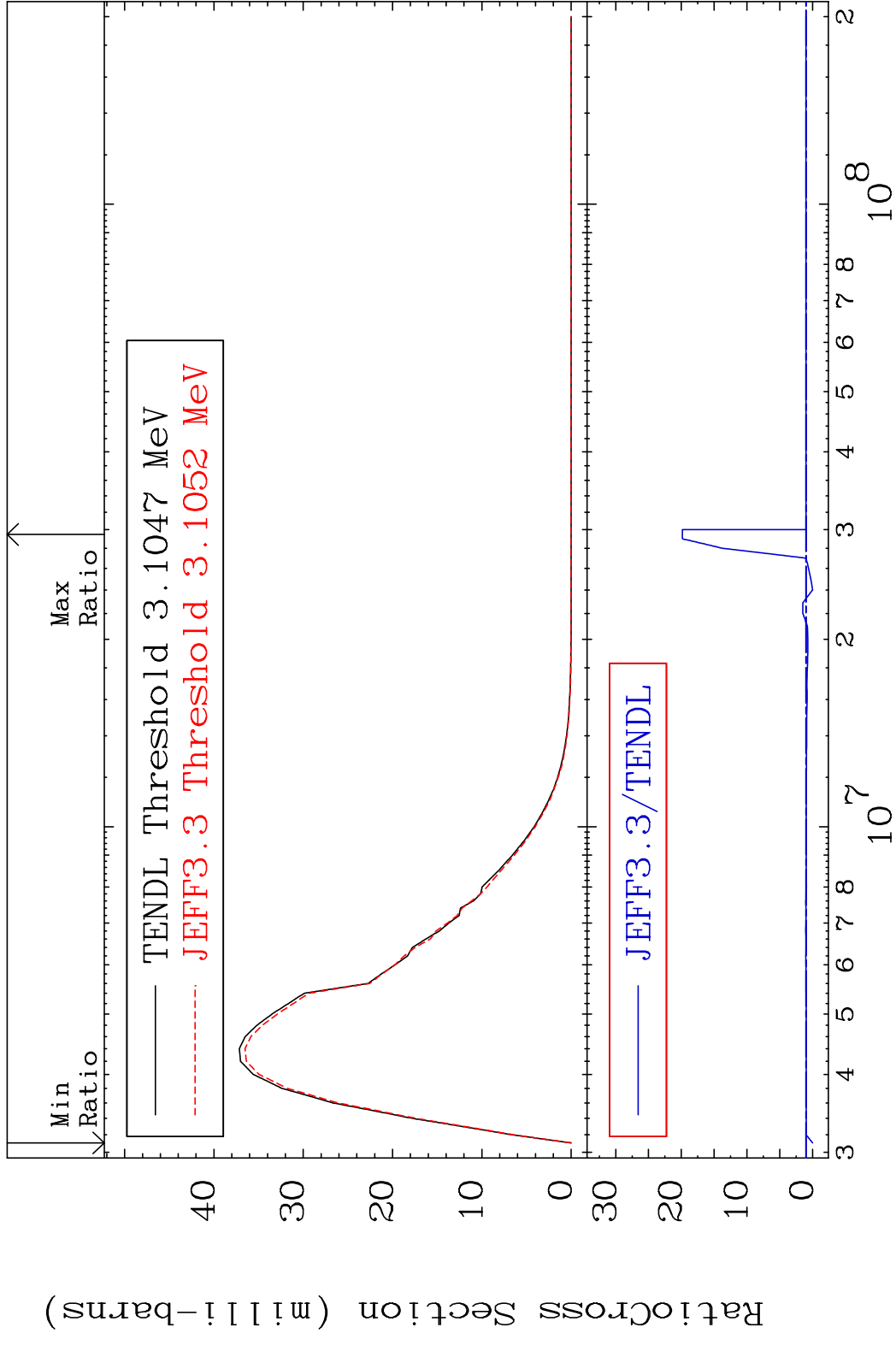


MAT 1122

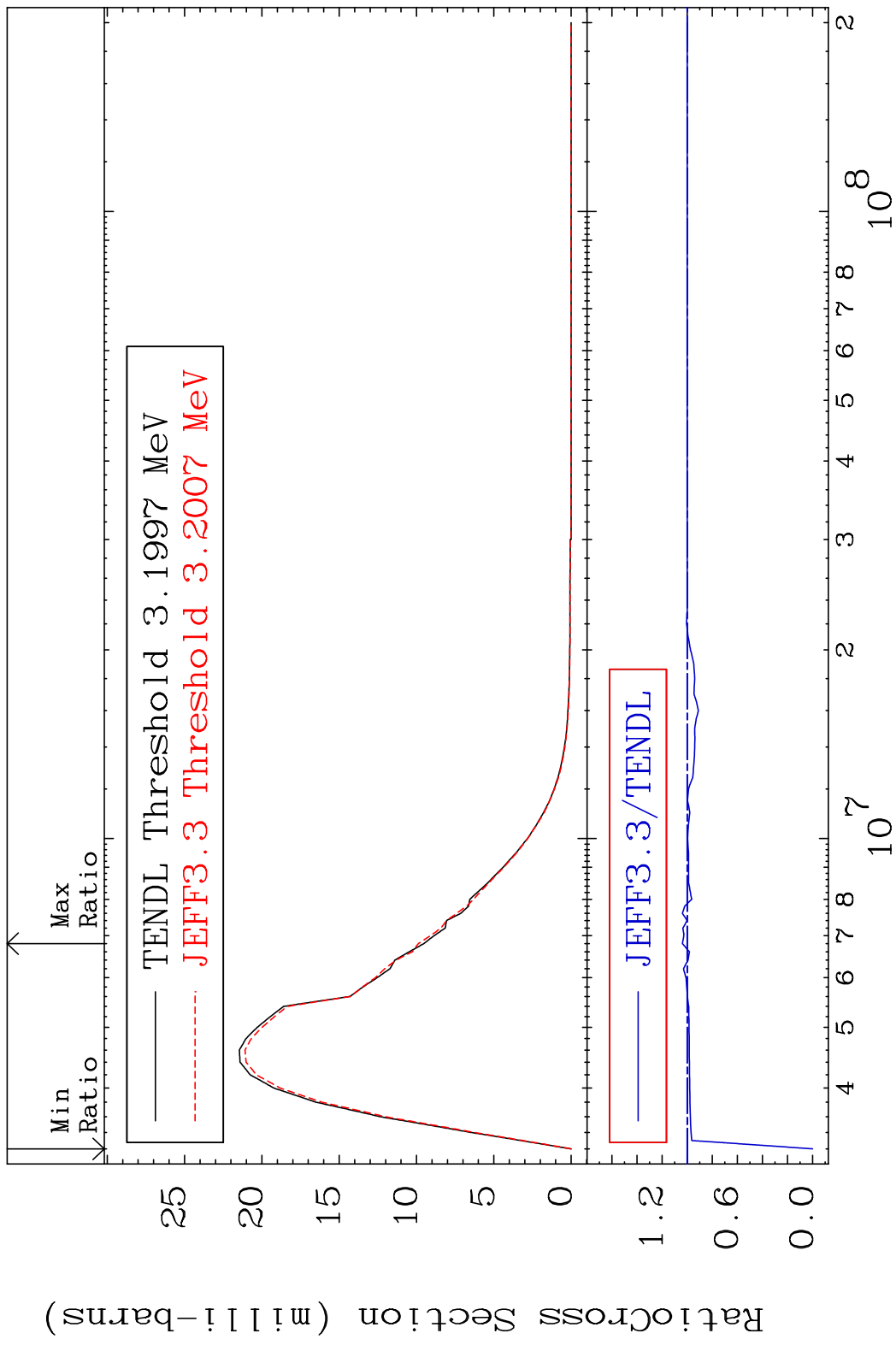
MT= 60 (n, n') Level

11-Na-22

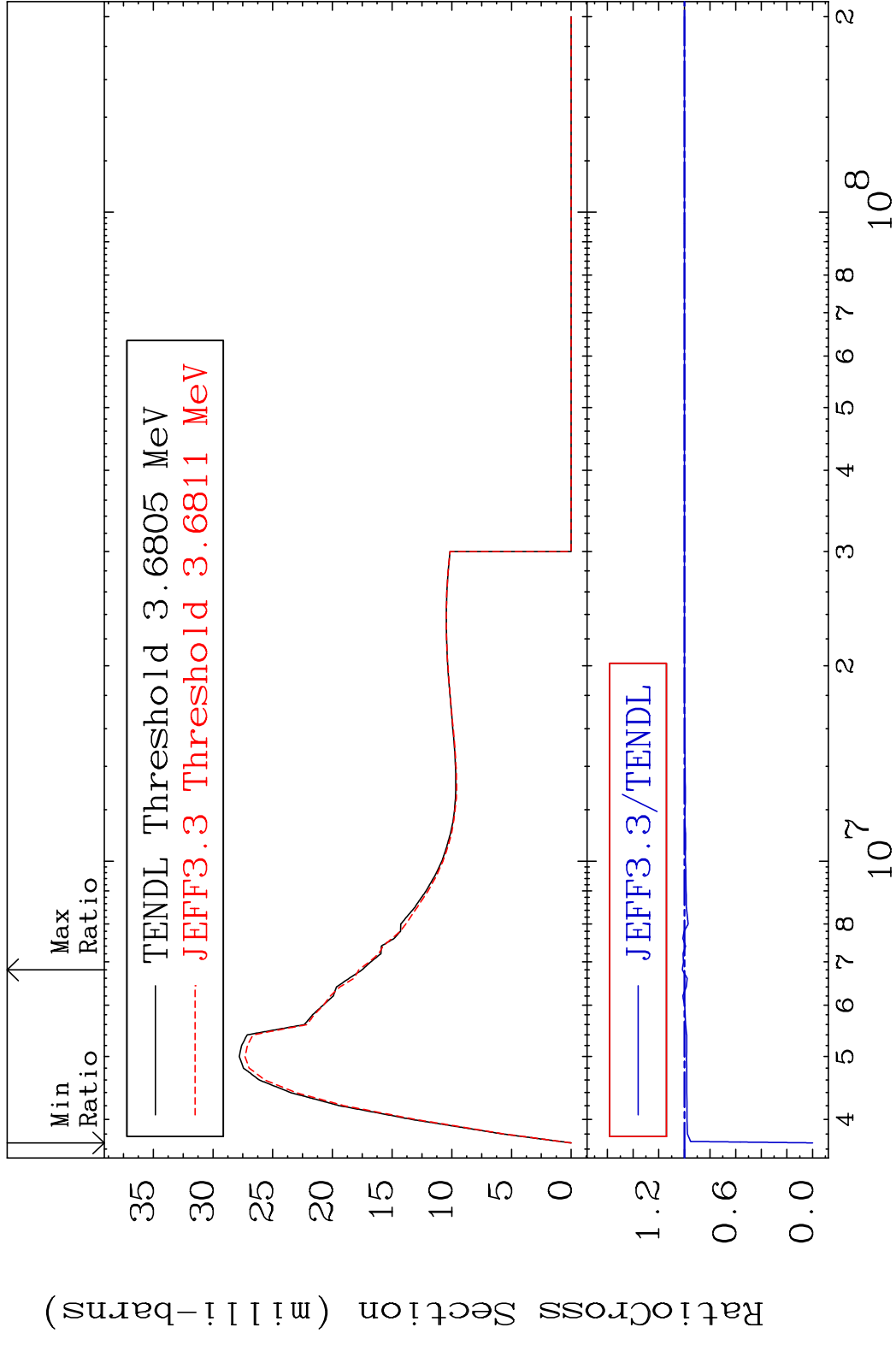
Cross Section -100.0 To 1884. %



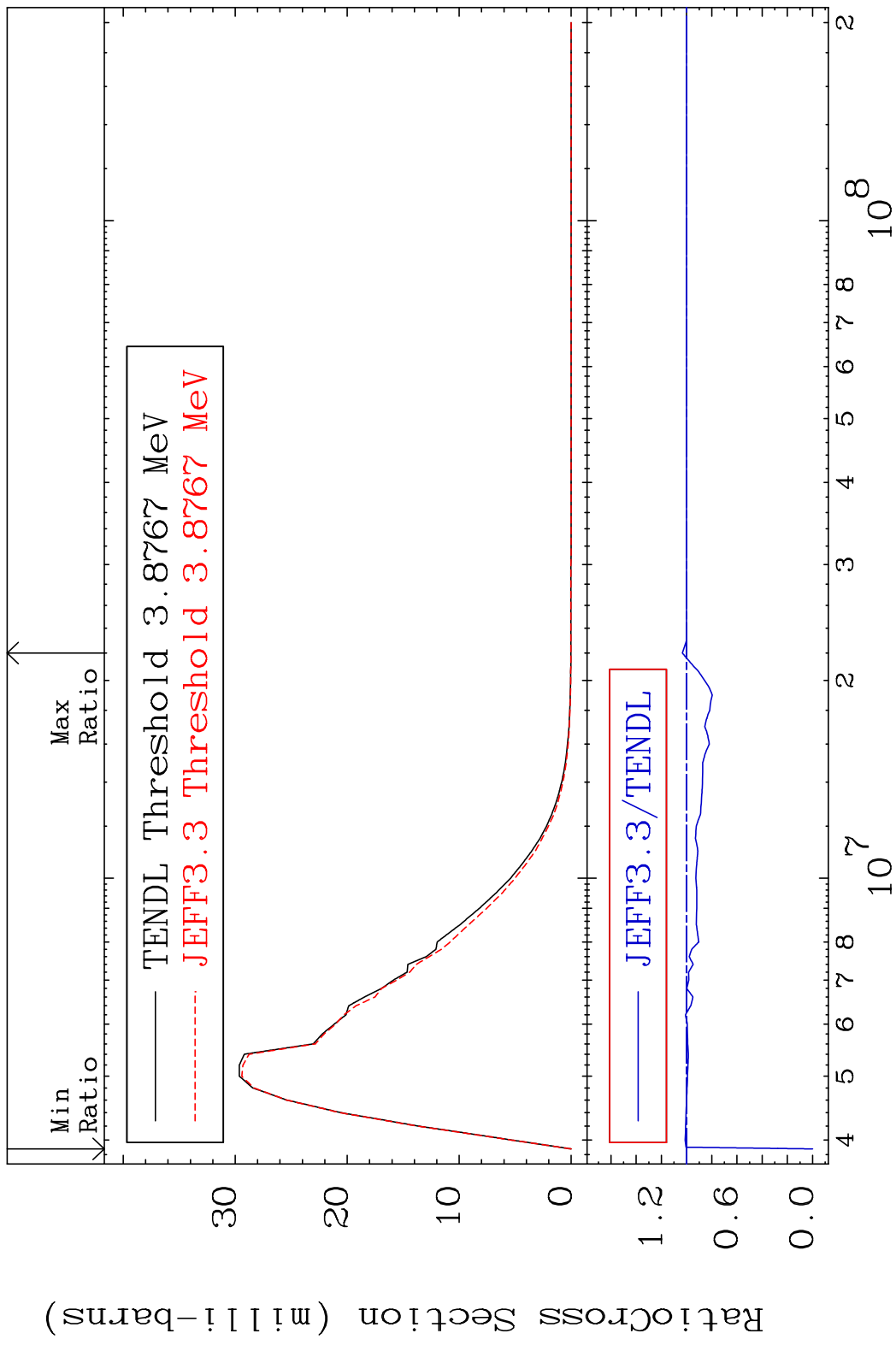
MAT 1122 MT= 61 (n, n') Level 11-Na-22
 Cross Section -100.0 To 3.792 %



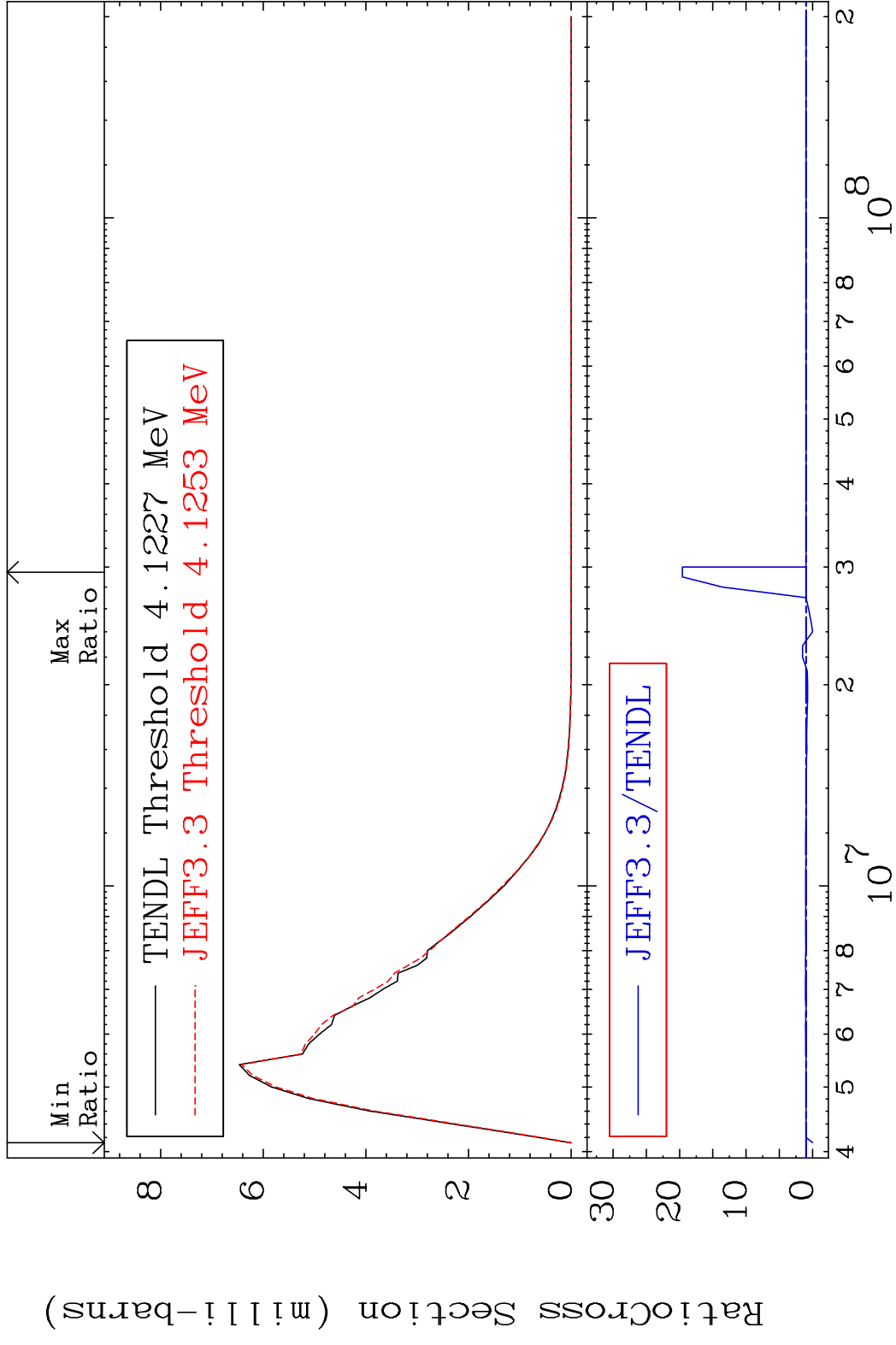
MAT 1122 MT= 62 (n, n') Level 11-Na-22
 Cross Section -100.0 To 1.580 %



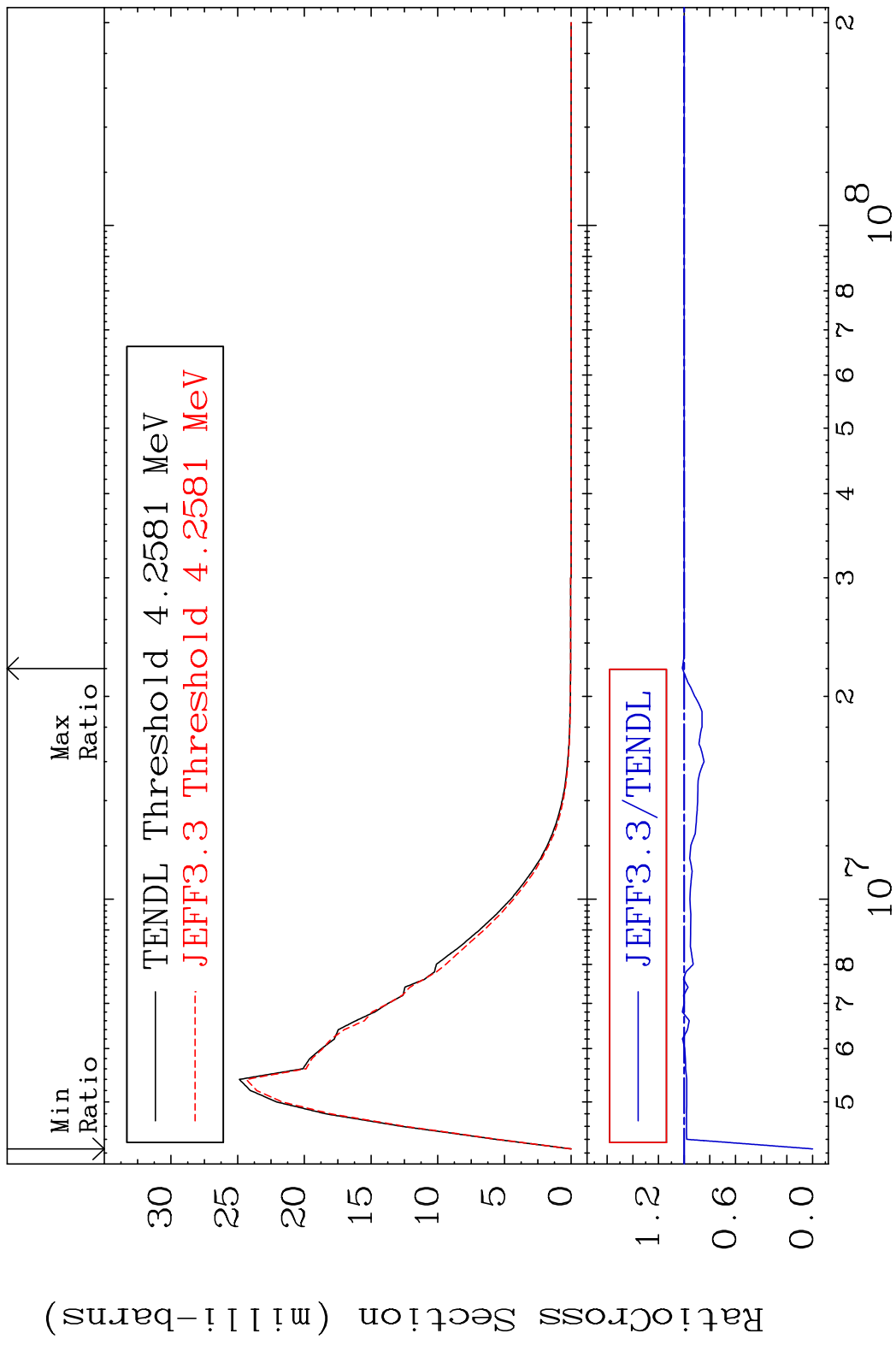
MAT 1122 MT= 63 (n, n') Level 11-Na-22
 Cross Section -100.0 To 3.352 %



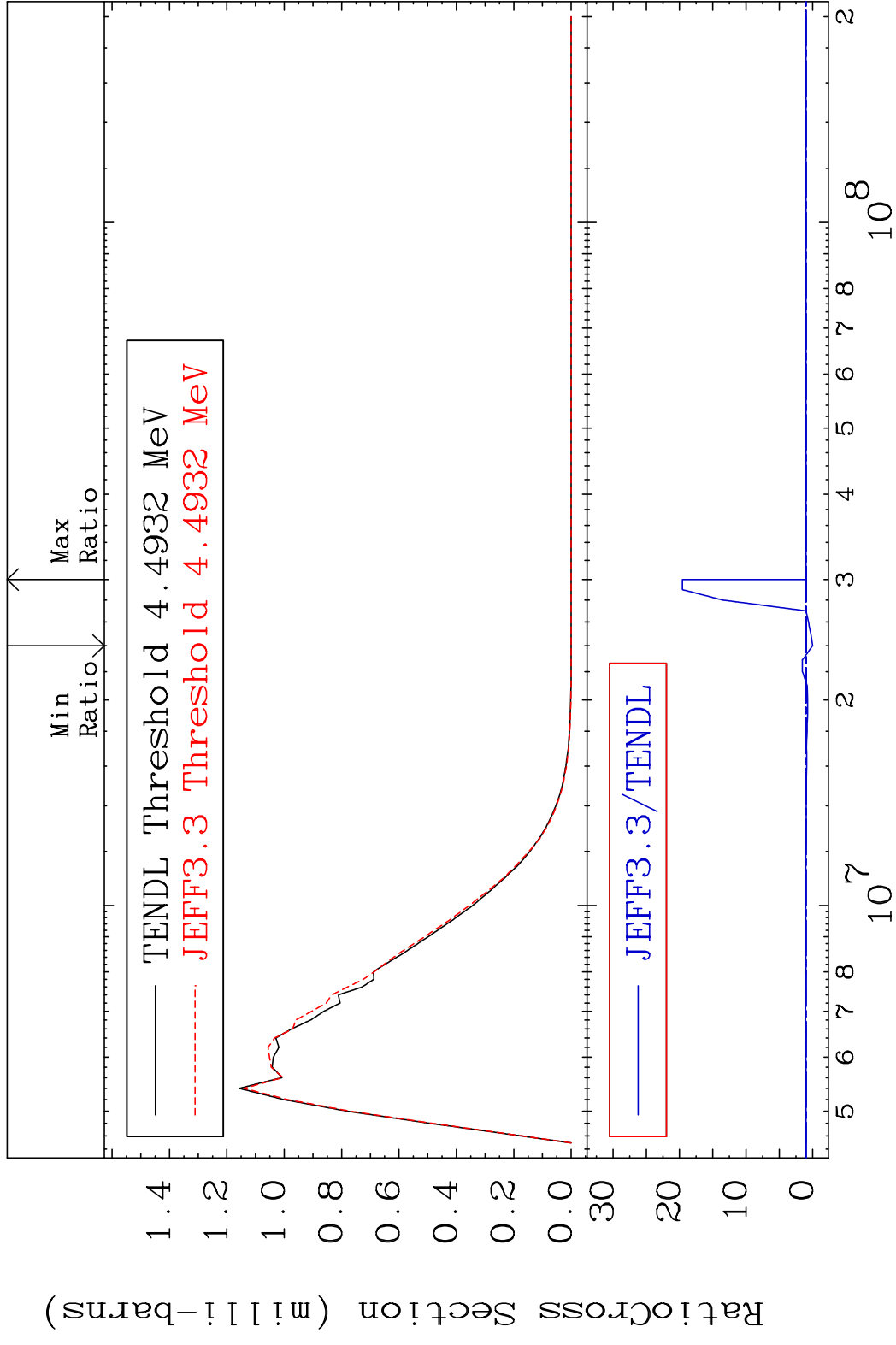
MAT 1122 MT= 64 (n, n') Level 11-Na-22
 Cross Section -100.0 To 1858. %



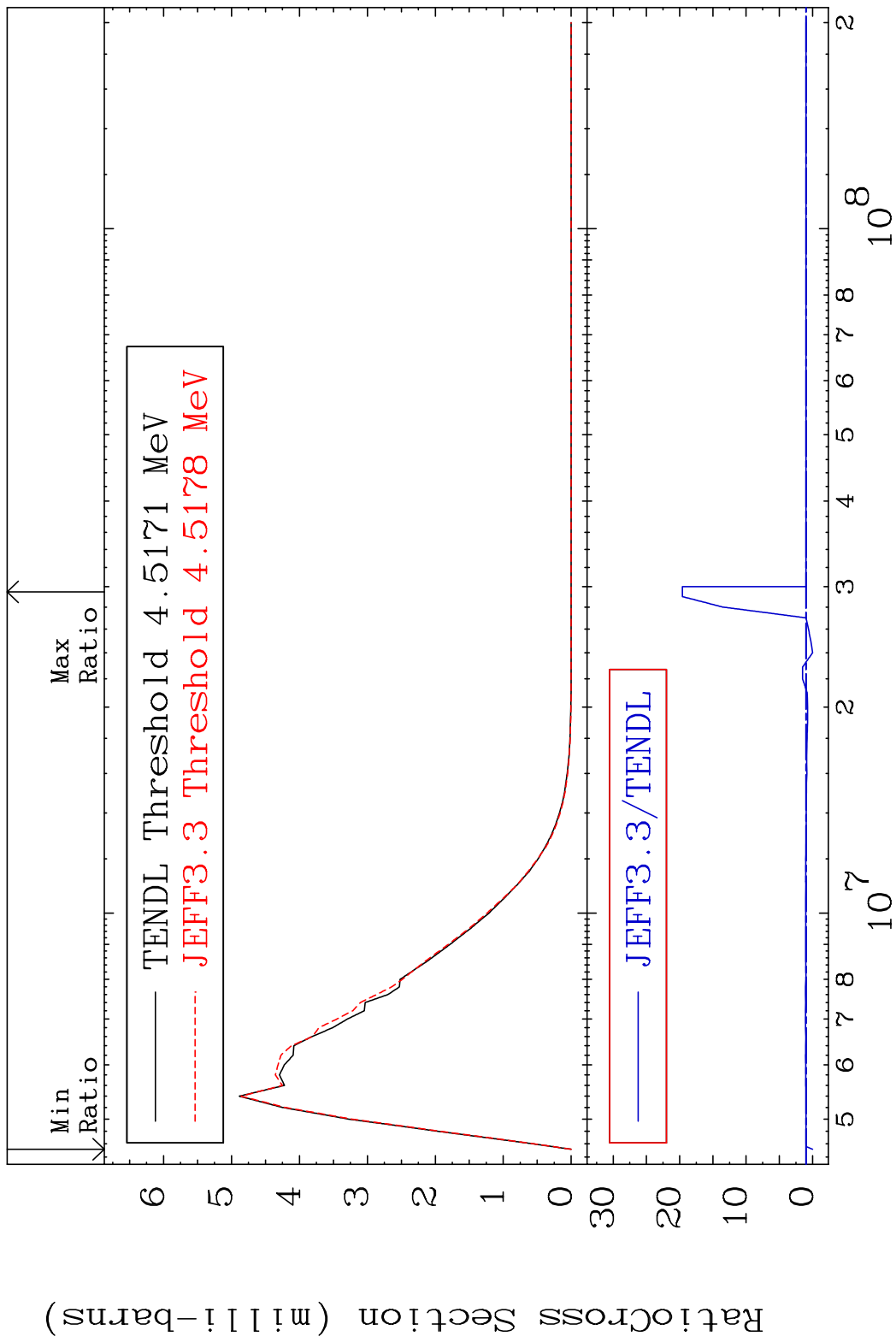
MAT 1122 MT= 65 (n, n') Level 11-Na-22
 Cross Section -100.0 To 1.413 %



MAT 1122 MT= 66 (n, n') Level 11-Na-22
 Cross Section -100.0 To 1858. %



MAT 1122 MT= 67 (n, n') Level 11-Na-22
 Cross Section -100.0 To 1859. %

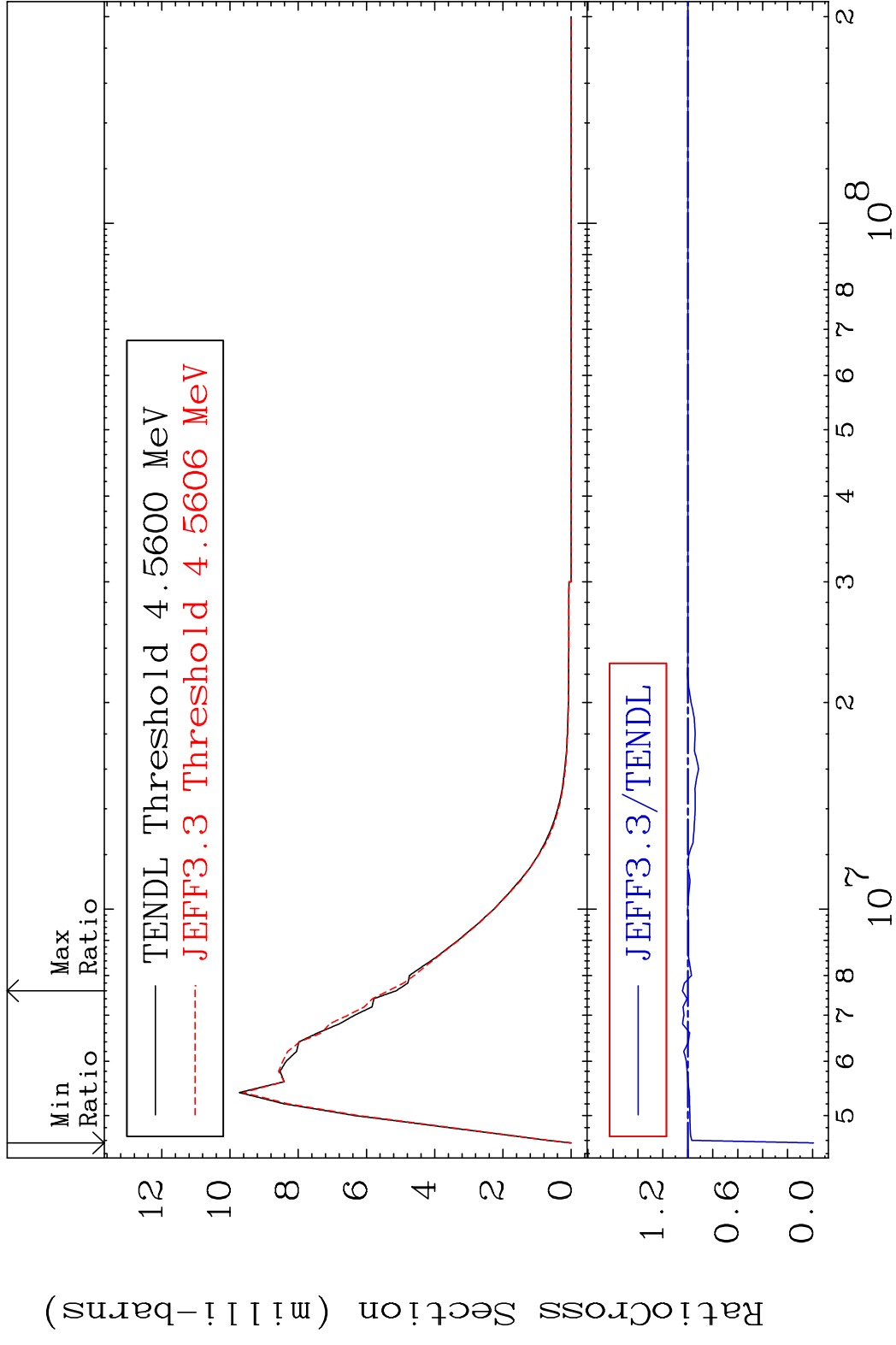


MAT 1122

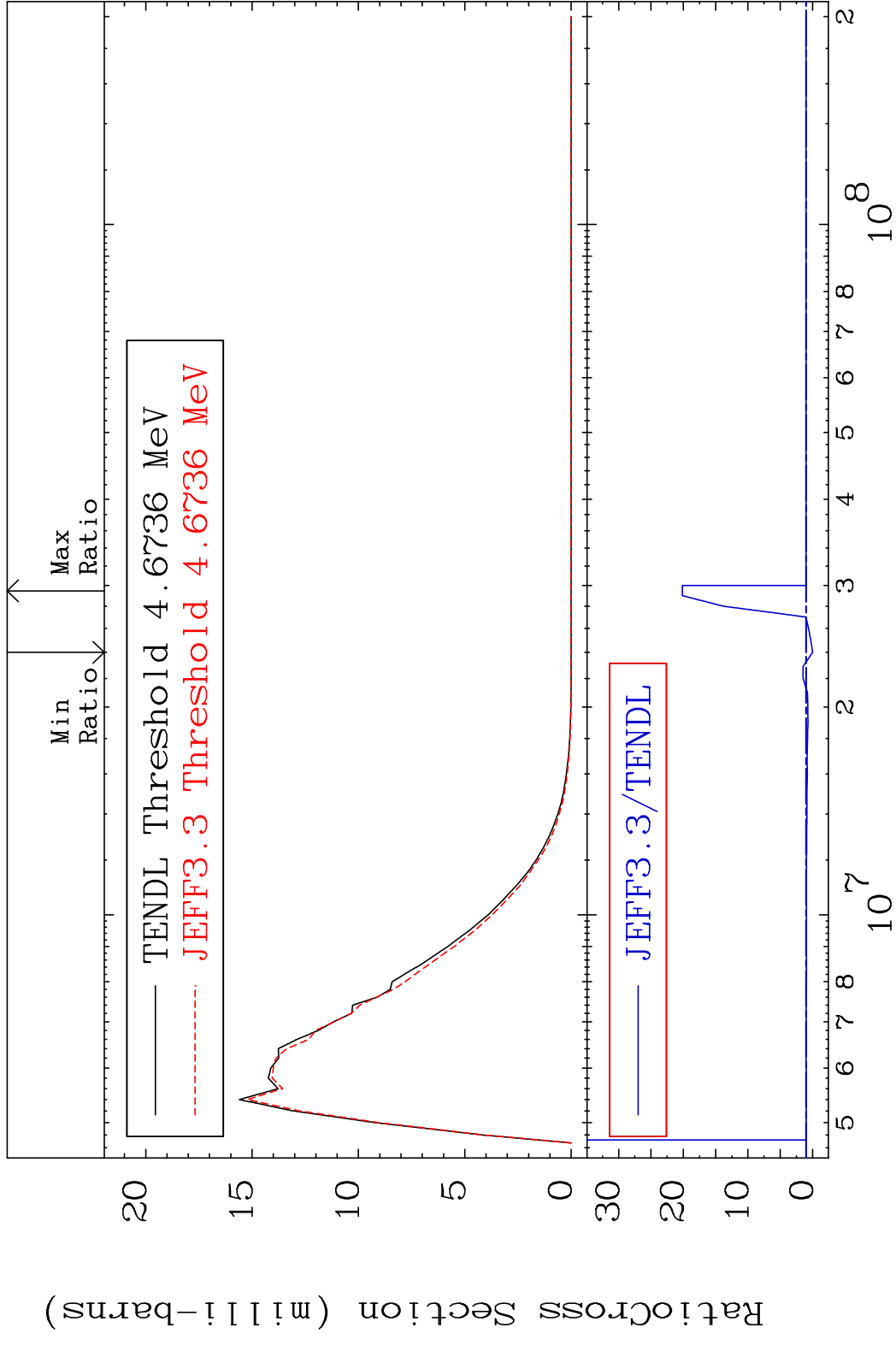
MT= 68 (n, n') Level

11-Na-22

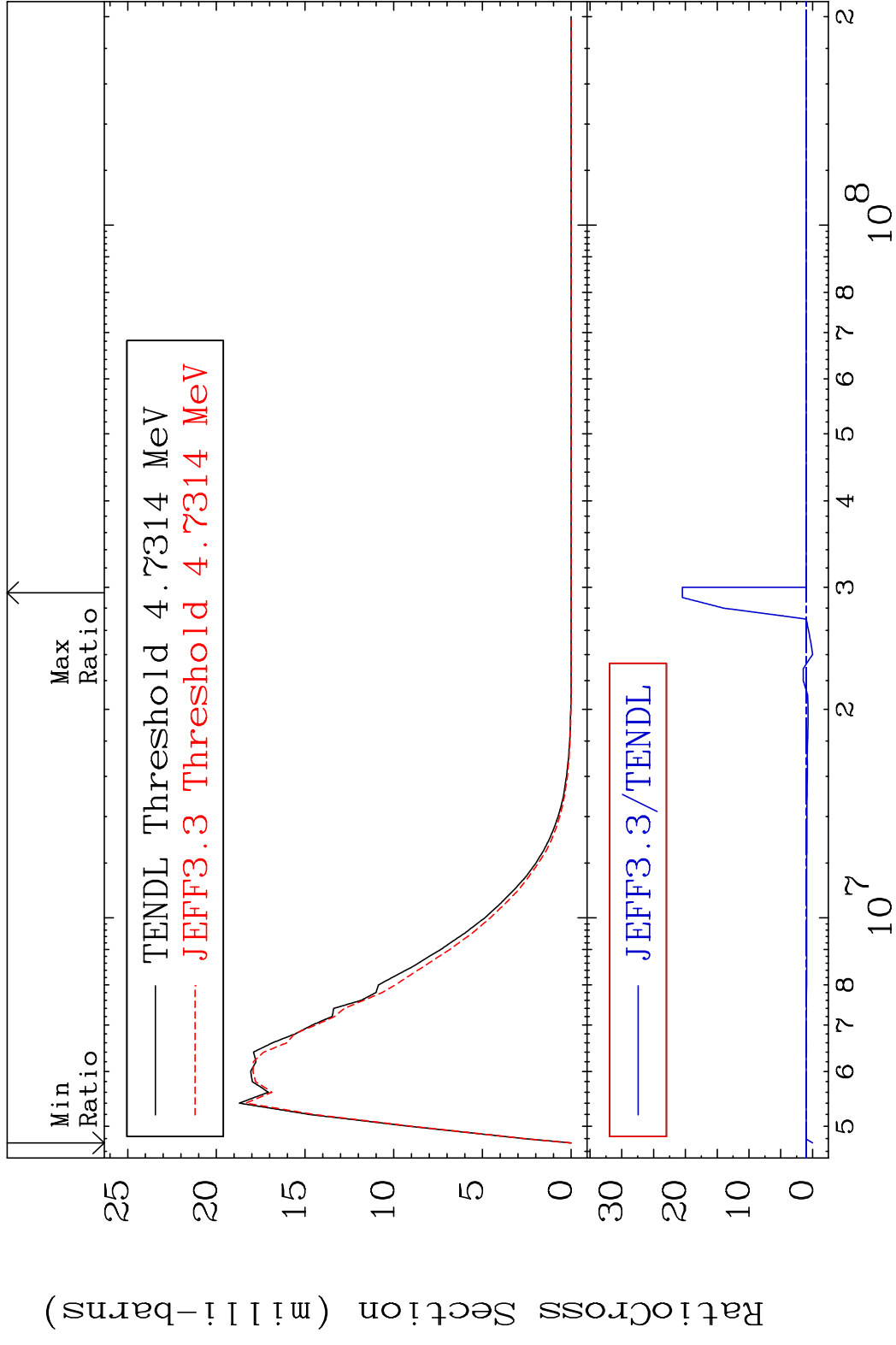
Cross Section -100.0 To 4.393 %



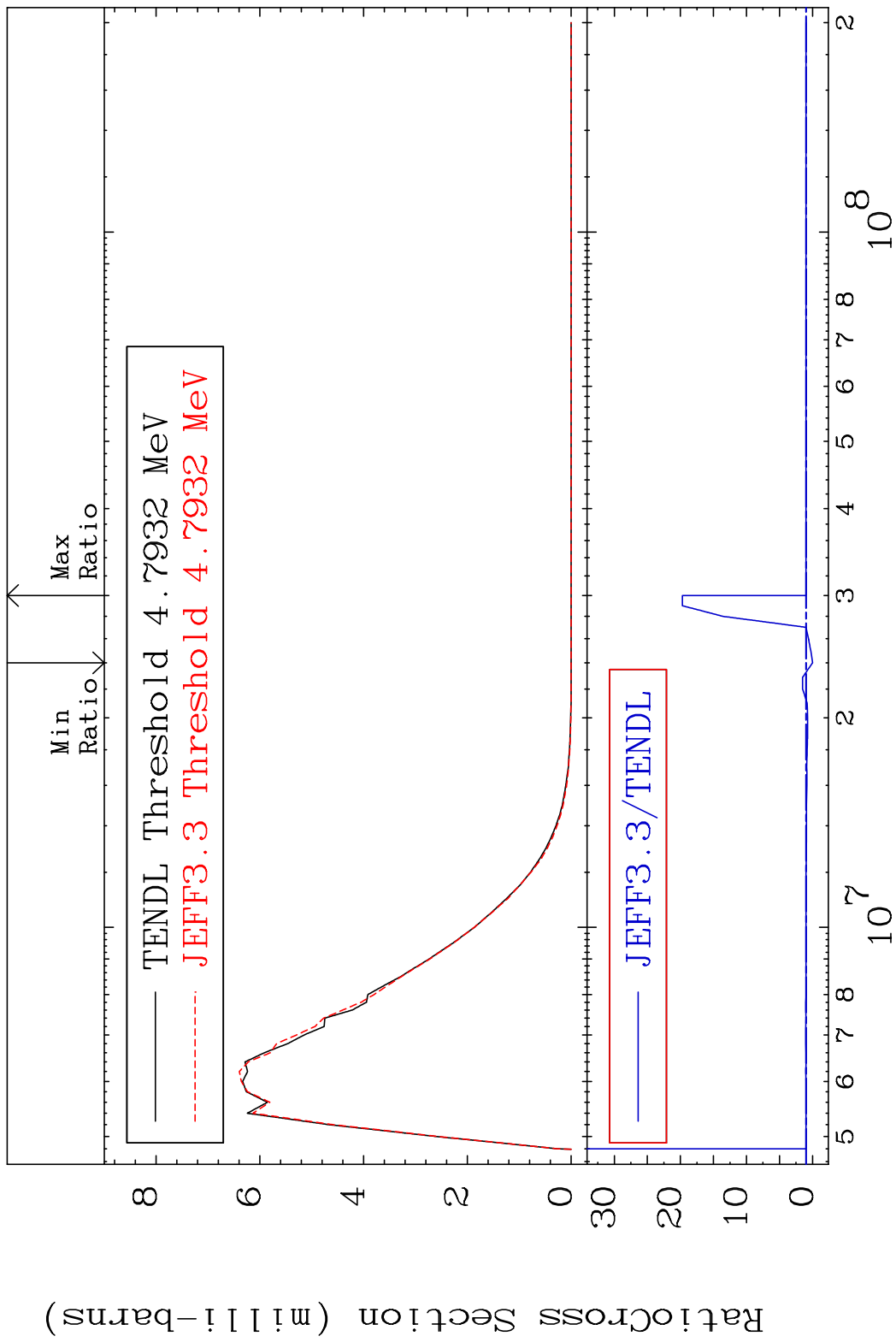
MAT 1122 MT= 69 (n, n') Level 11-Na-22
 Cross Section -100.0 To 1915. %



MAT 1122 MT= 70 (n, n') Level 11-Na-22
 Cross Section -100.0 To 1948. %



MAT 1122 MT= 71 (n, n') Level 11-Na-22
 Cross Section -100.0 To 1871. %

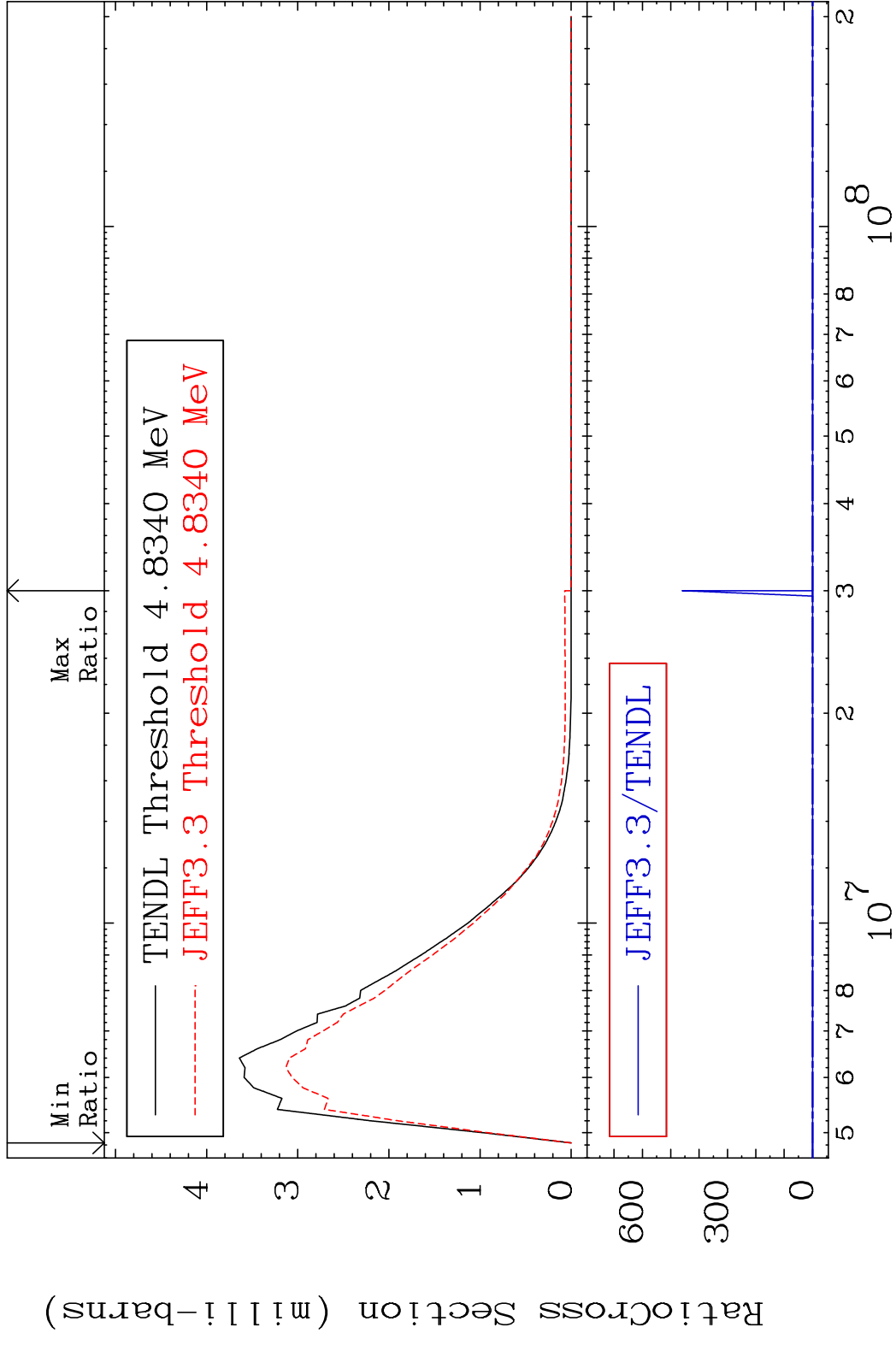


MAT 1122

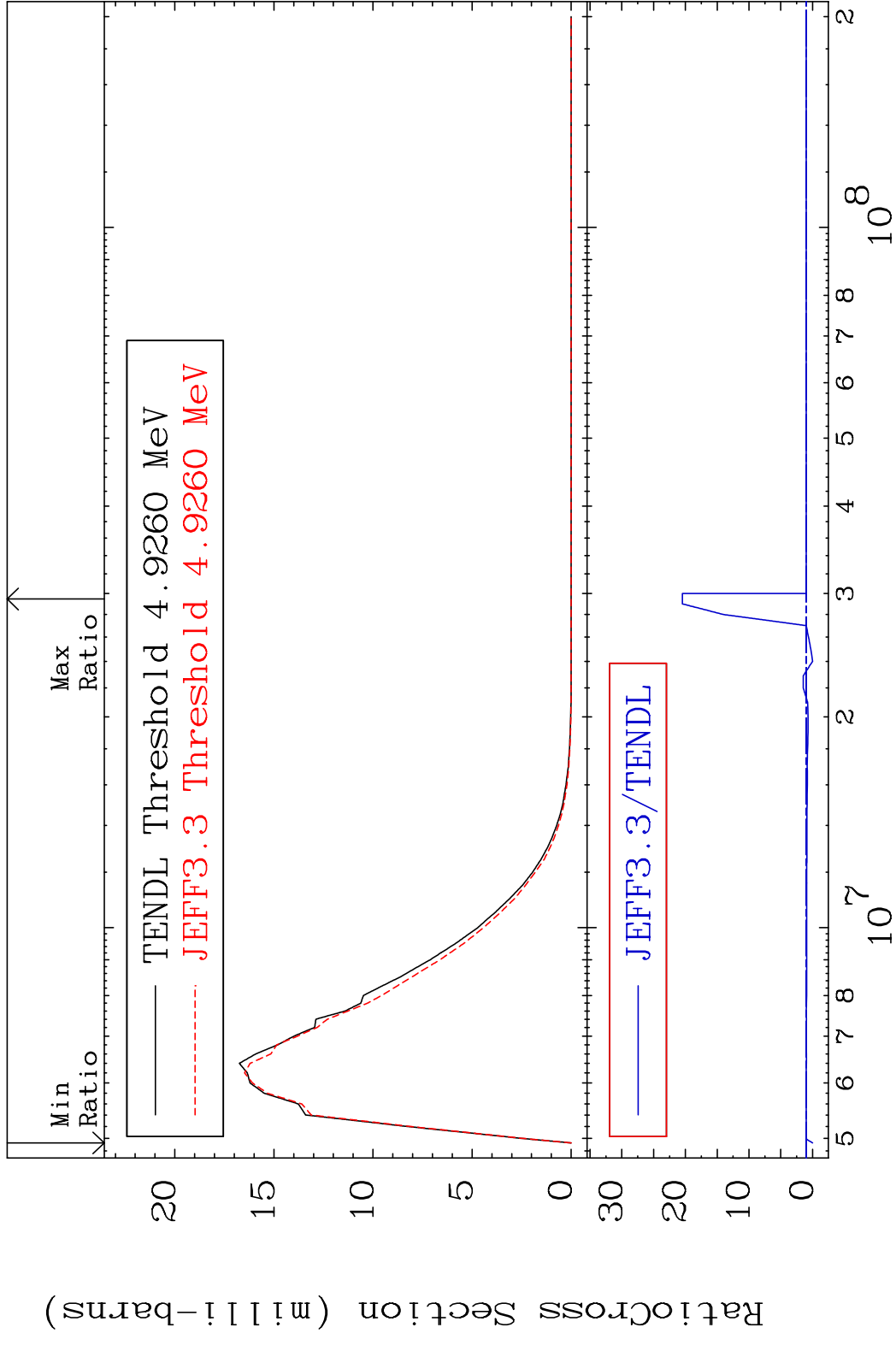
MT= 72 (n, n') Level

11-Na-22

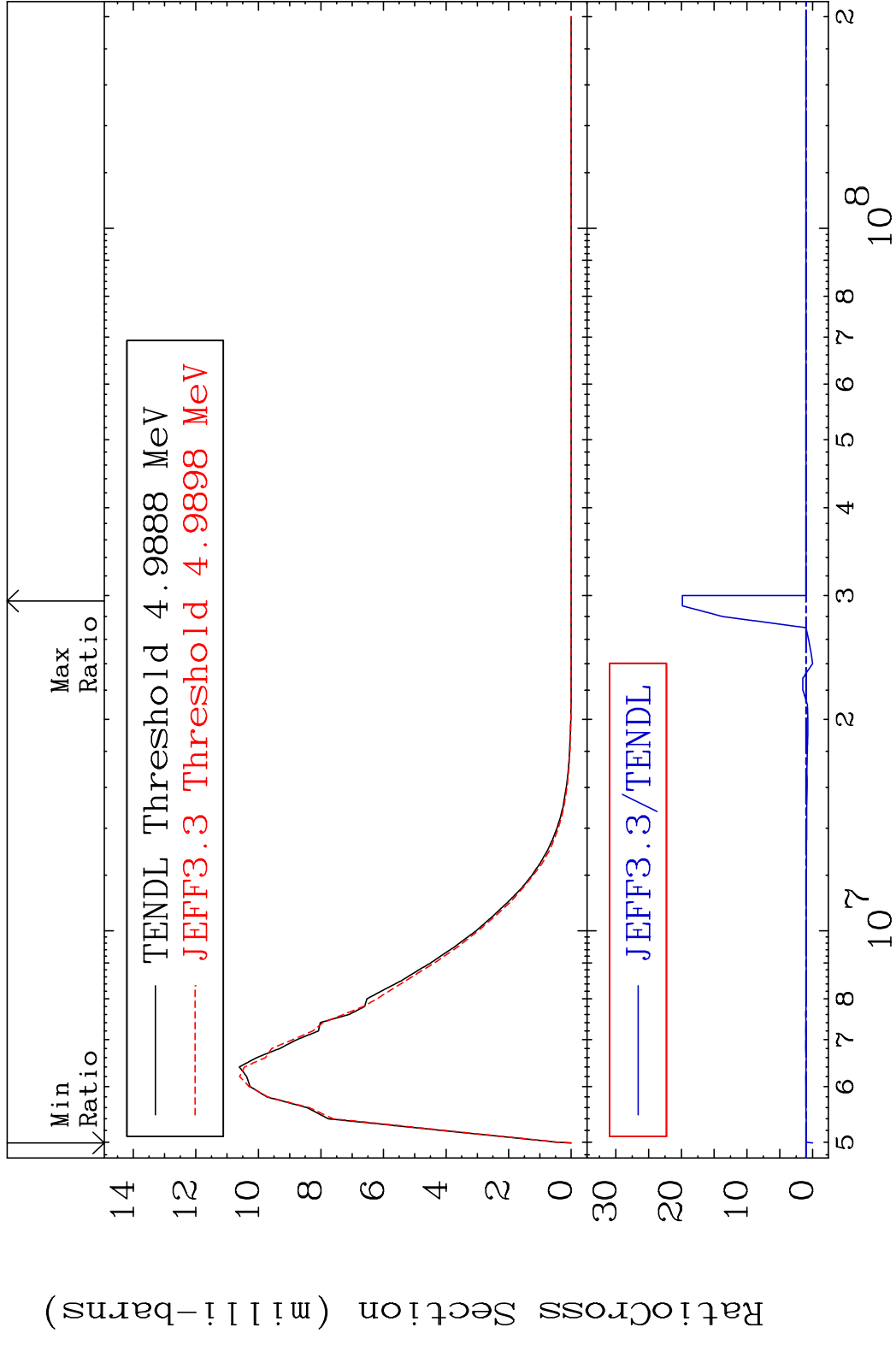
Cross Section -100.0 To 9999. %



MAT 1122 MT= 73 (n, n') Level 11-Na-22
 Cross Section -100.0 To 1948. %



MAT 1122 MT= 74 (n, n') Level 11-Na-22
 Cross Section -100.0 To 1885. %

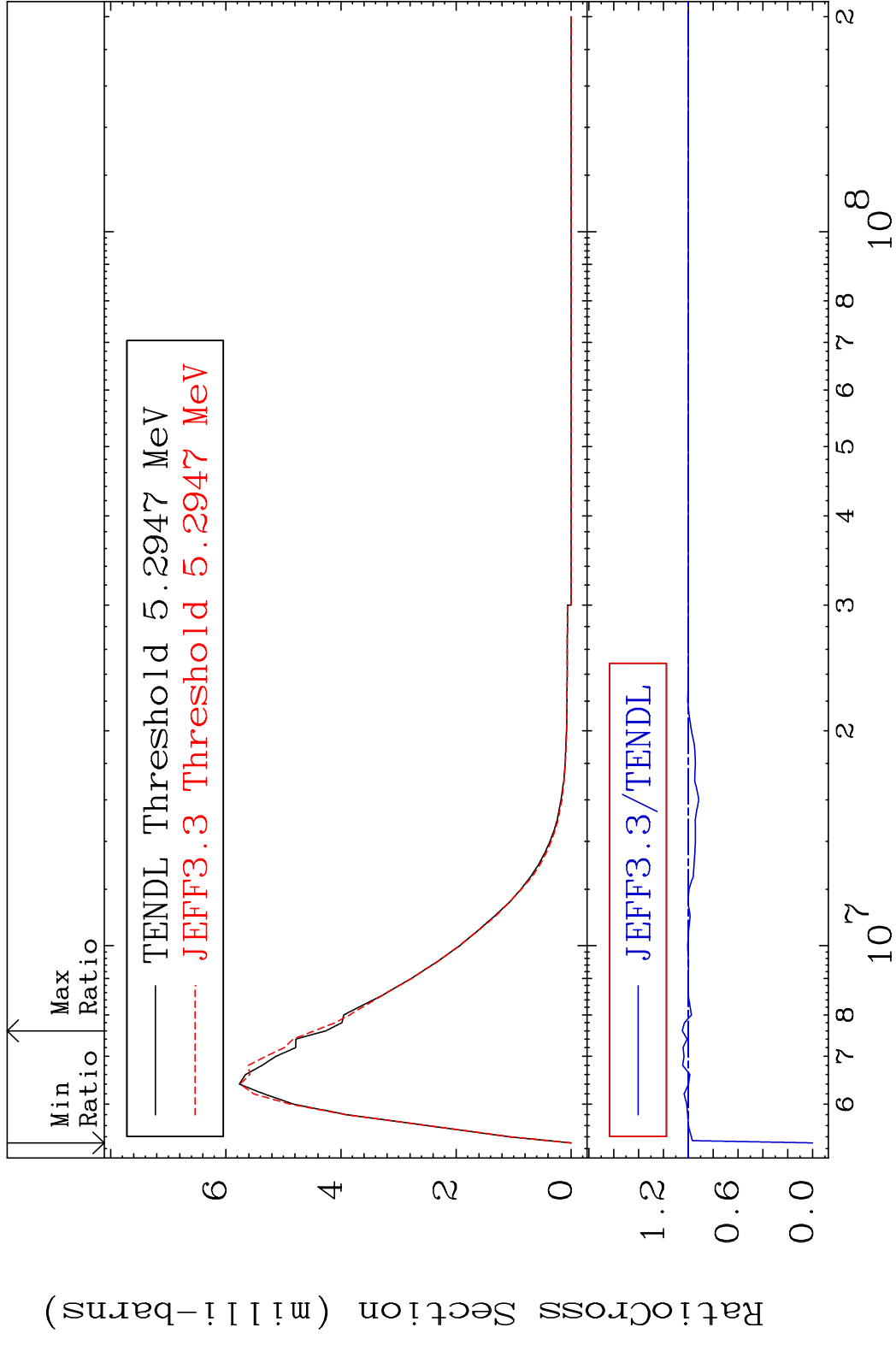


MAT 1122

MT= 75 (n, n') Level

11-Na-22

Cross Section -100.0 To 4.730 %

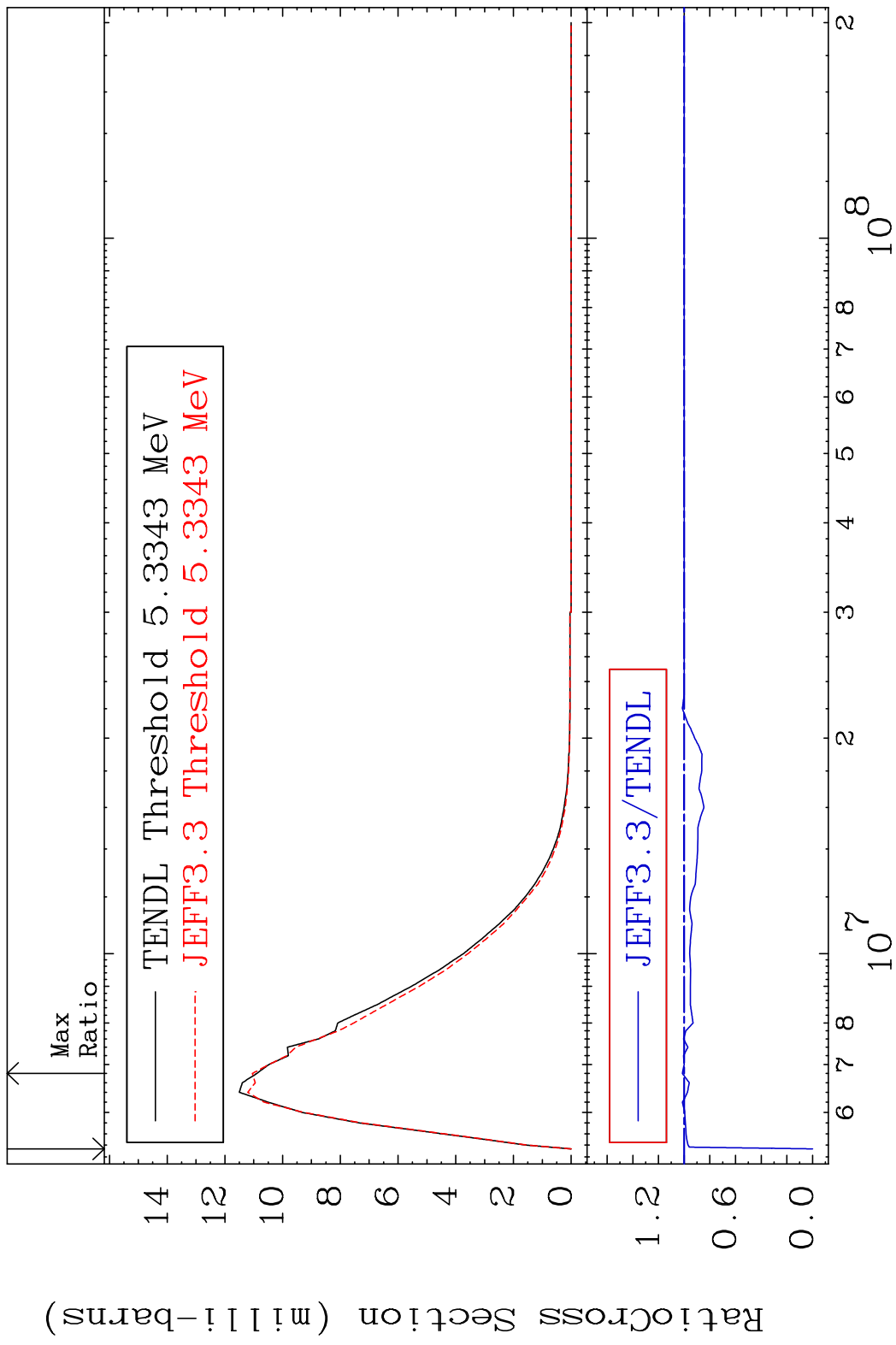


40

Incident Energy (eV)

11-Na-22

MAT 1122 MT= 76 (n, n') Level 11-Na-22
 Cross Section -100.0 To 1.405 %

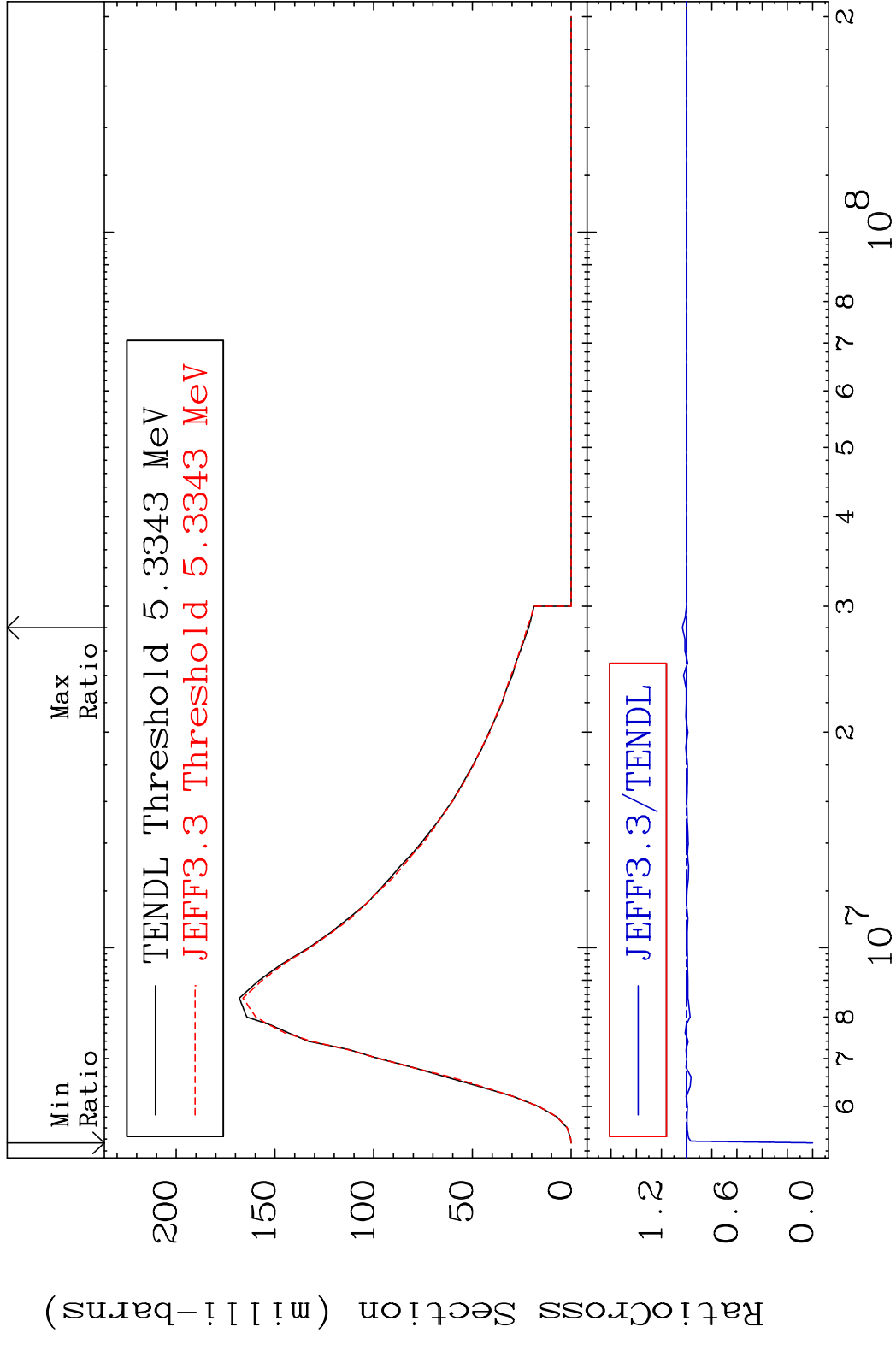


MAT 1122

(n, n') Continuum

11-Na-22

Cross Section -100.0 To 3.377 %

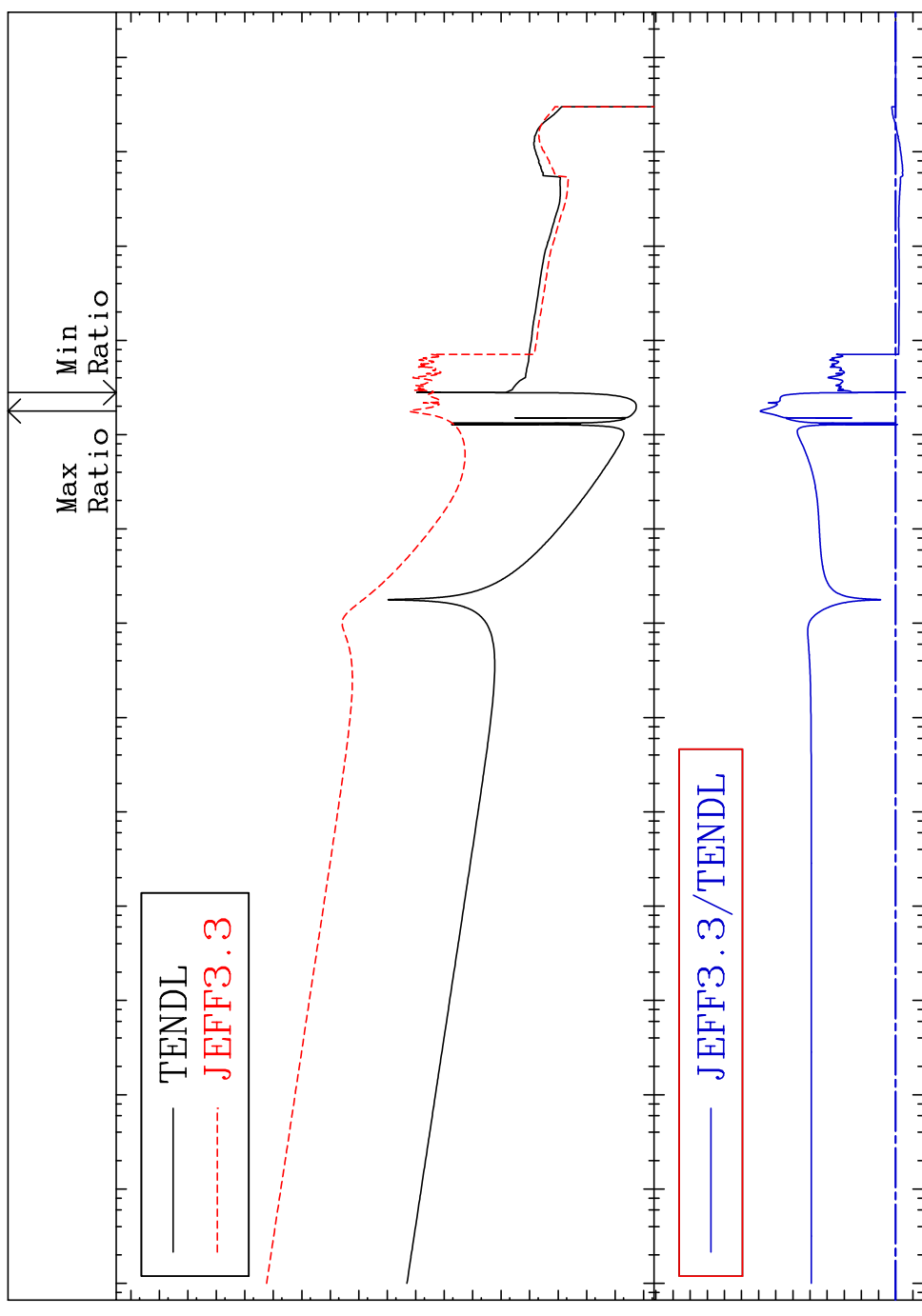


MAT 1122

(n, γ)

11-Na-22

Cross Section -72.36 To 9999. %



43

Incident Energy (eV)

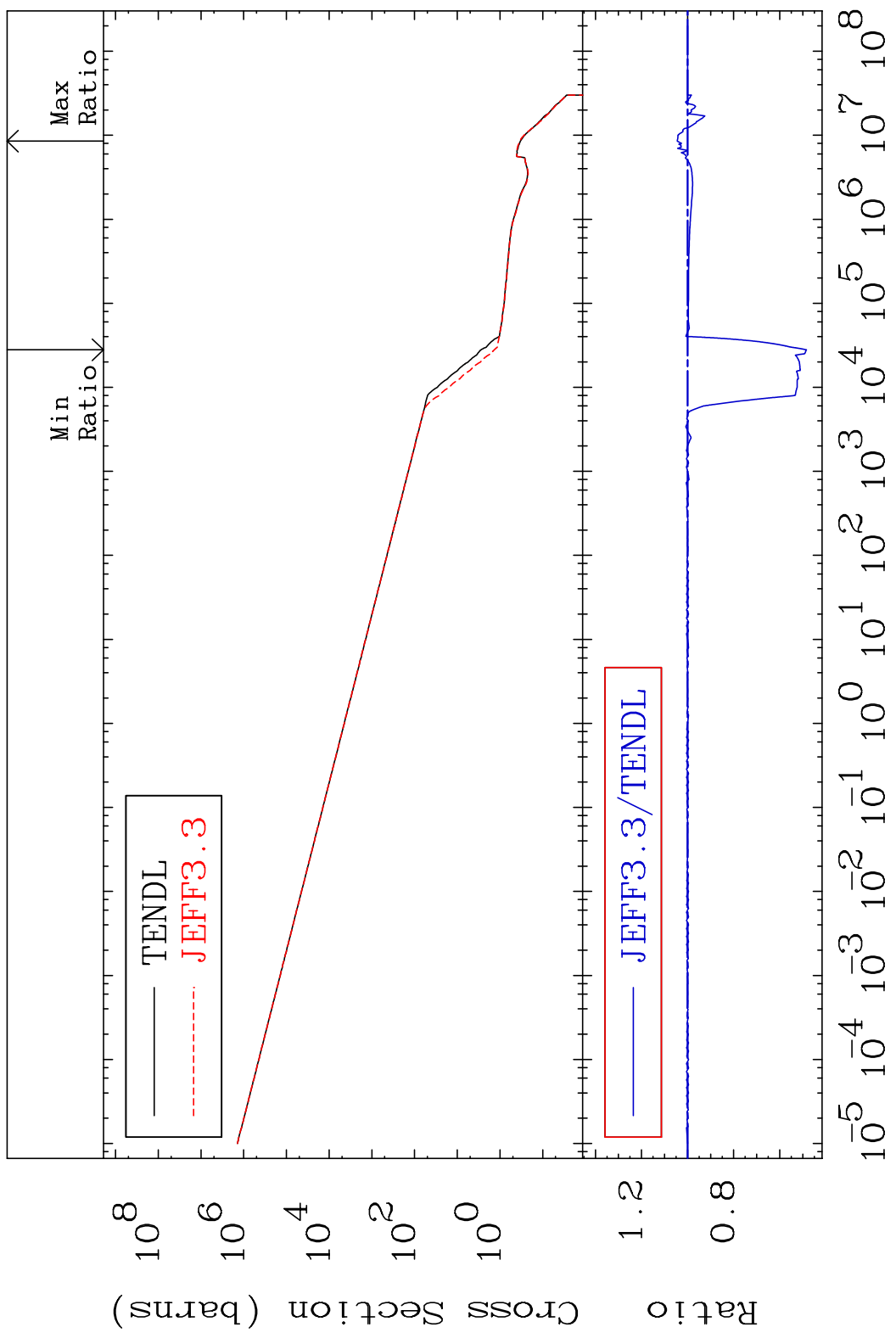
11-Na-22

MAT 1122

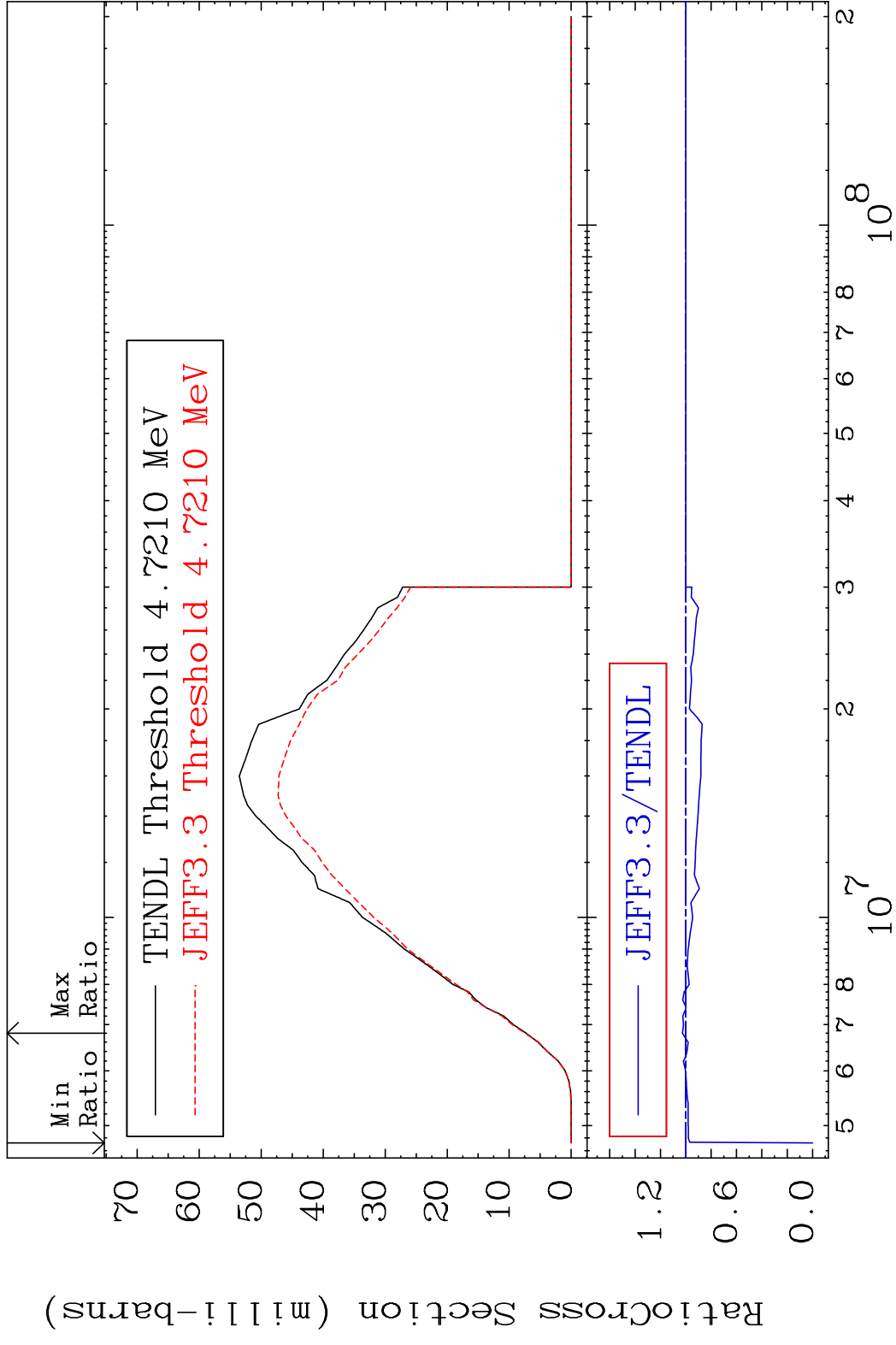
(n,p)

11-Na-22

Cross Section -51.57 To 4.519 %



MAT 1122 (n,d) 11-Na-22
 Cross Section -100.0 To 2.705 %

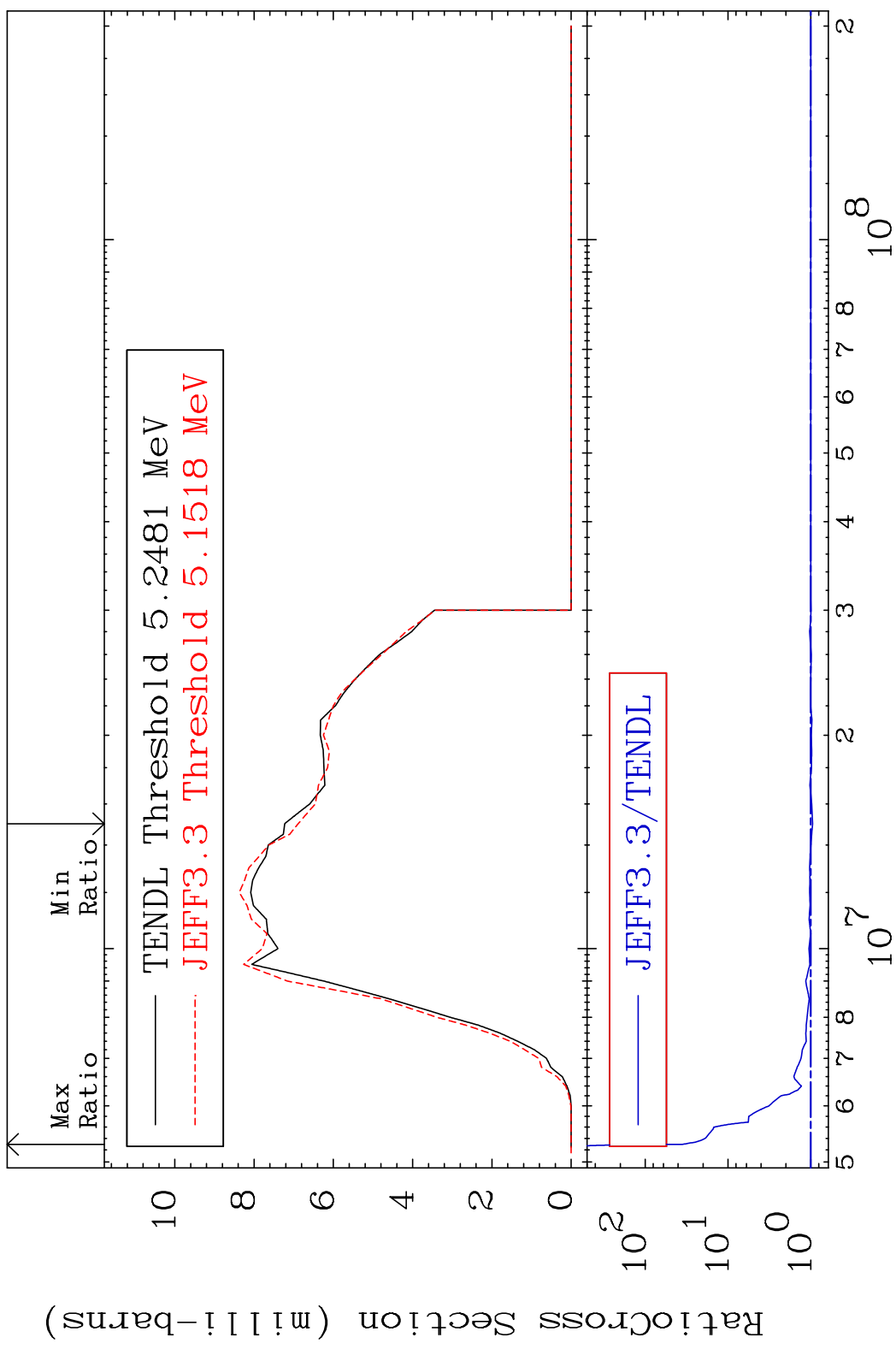


MAT 1122

(n, t)

11-Na-22

Cross Section -4.726 To 3459. %



46

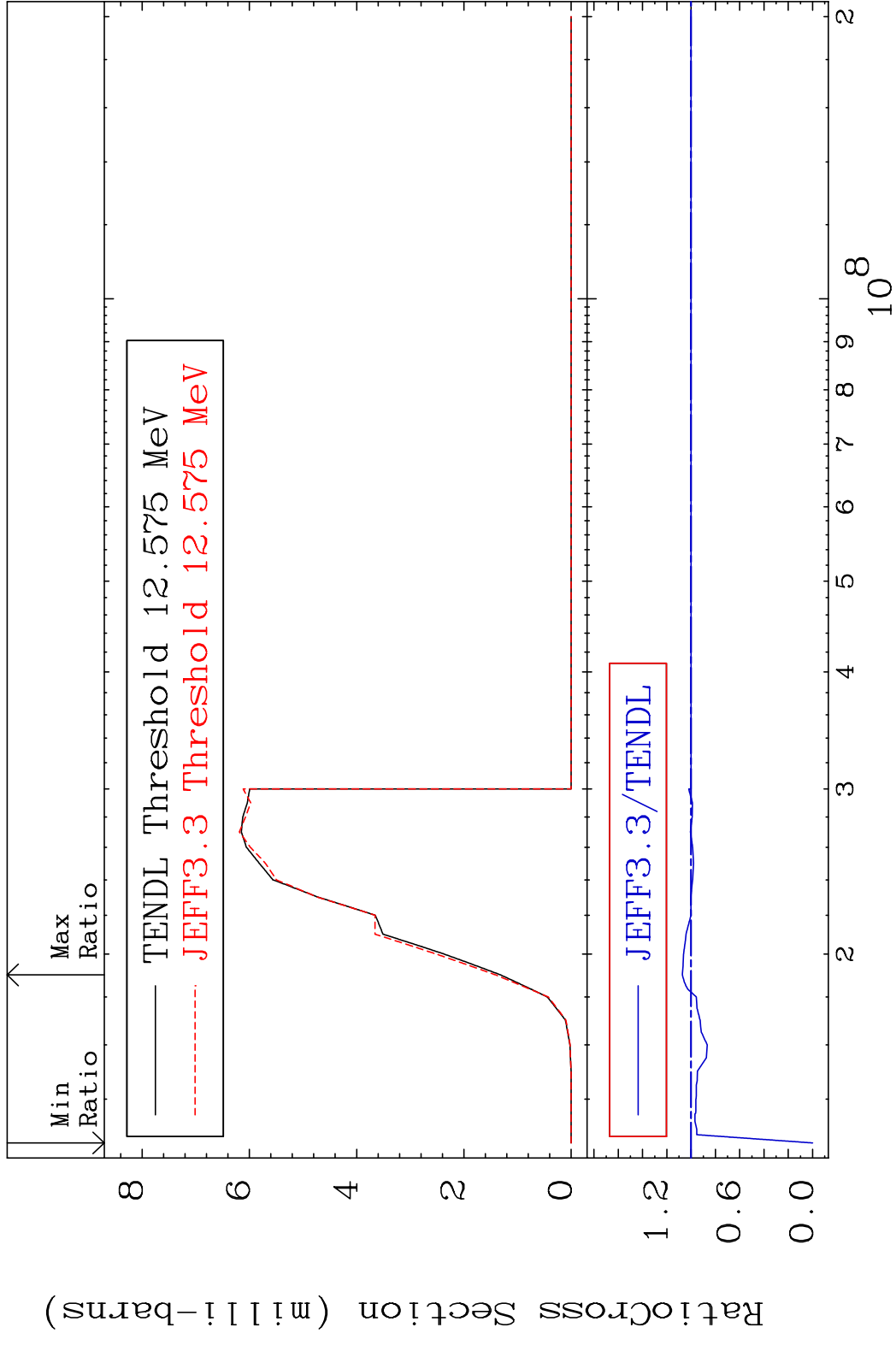
11-Na-22

MAT 1122

(n, He-3)

11-Na-22

Cross Section -100.0 To 7.235 %

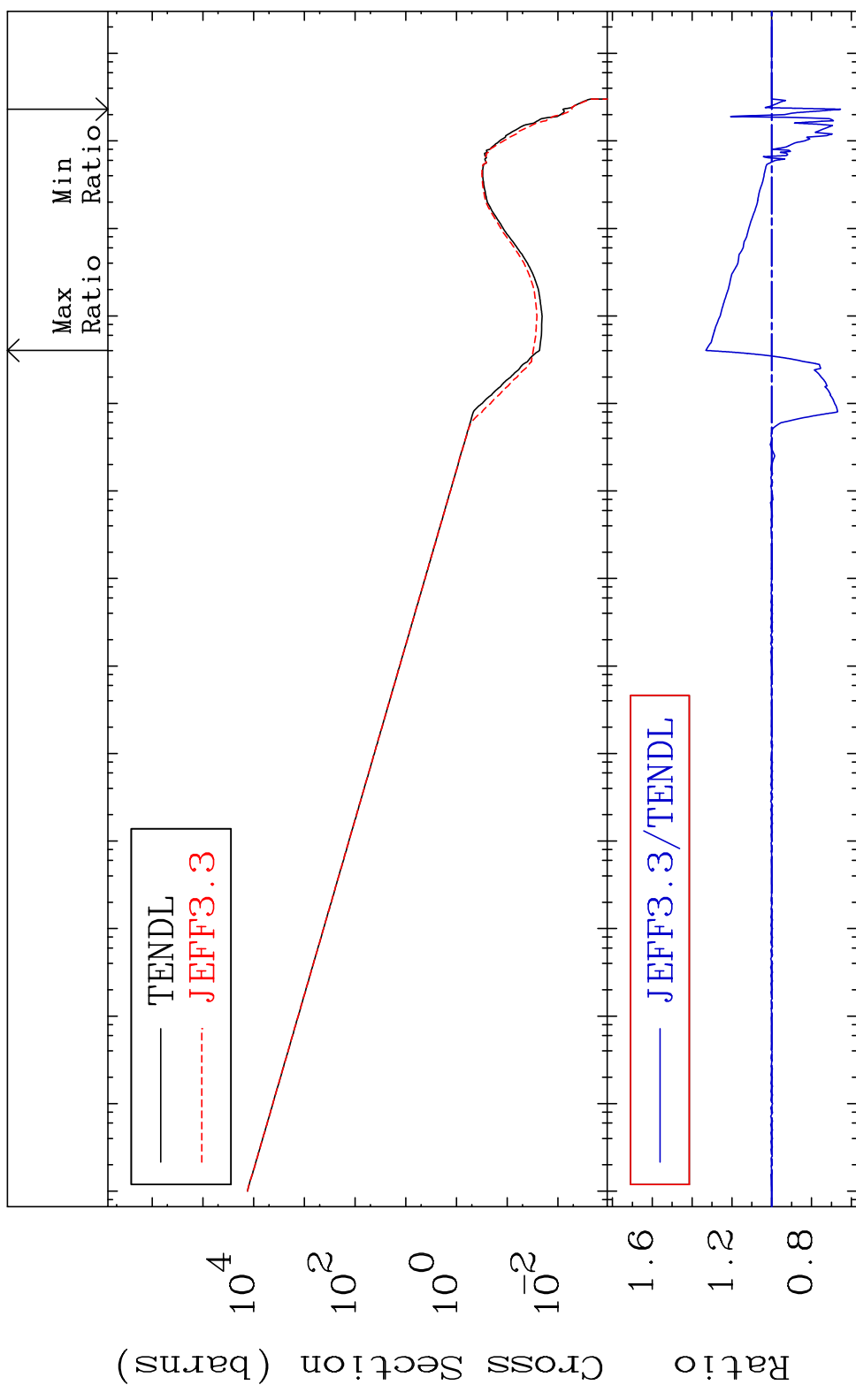


MAT 1122

(n, α)

11-Na-22

Cross Section -34.50 To 33.12 %

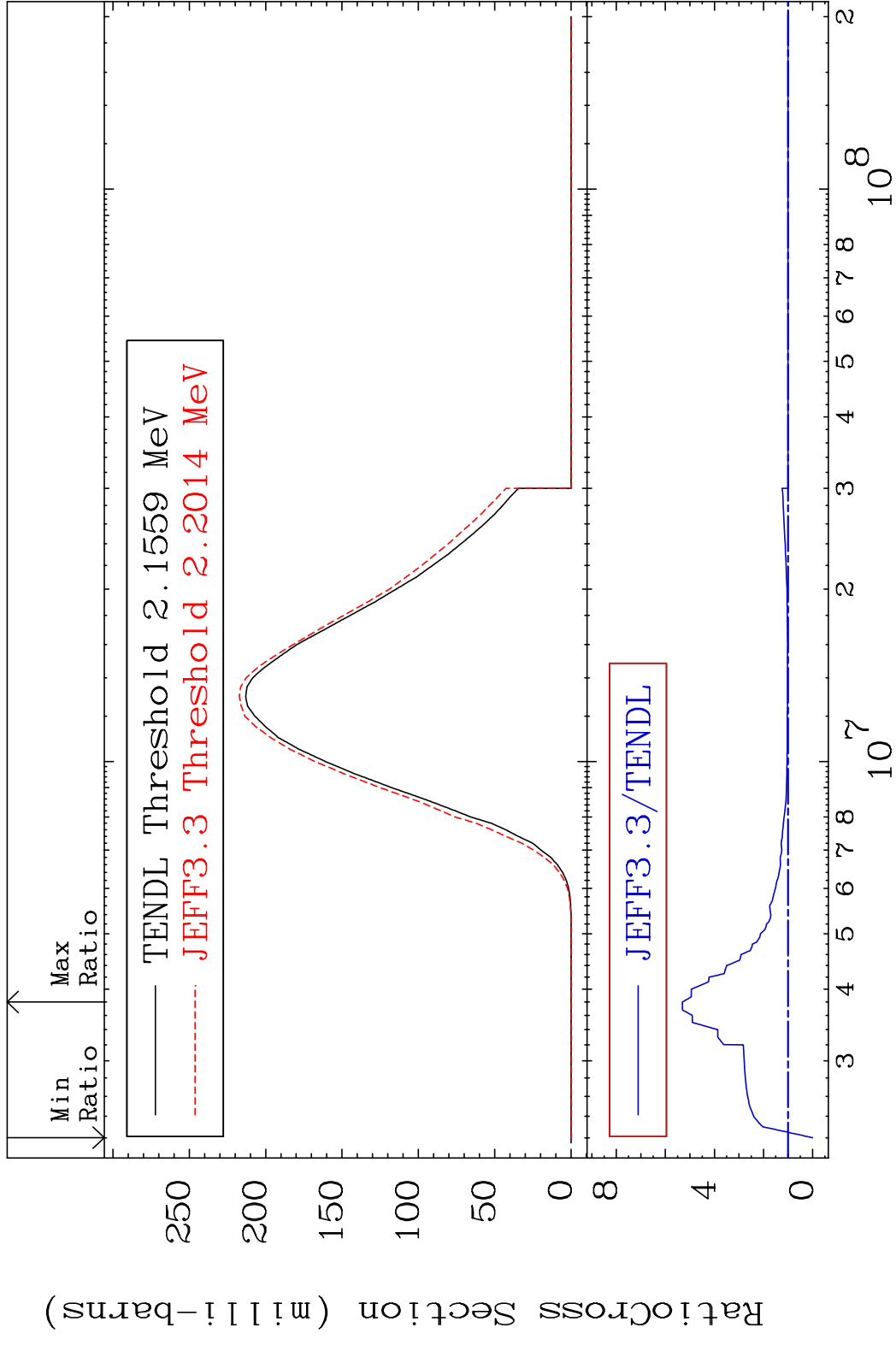


MAT 1122

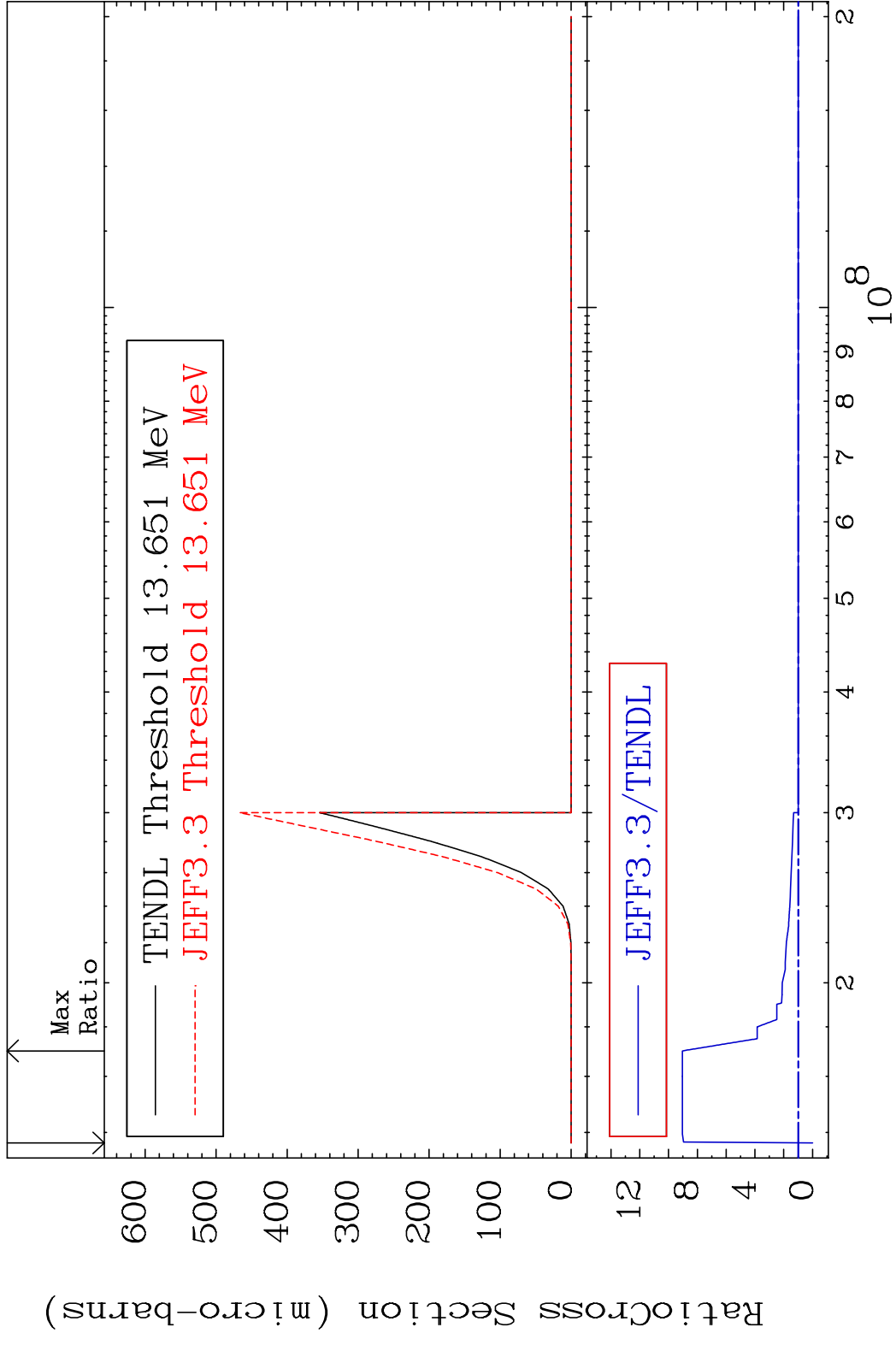
(n, 2α)

11-Na-22

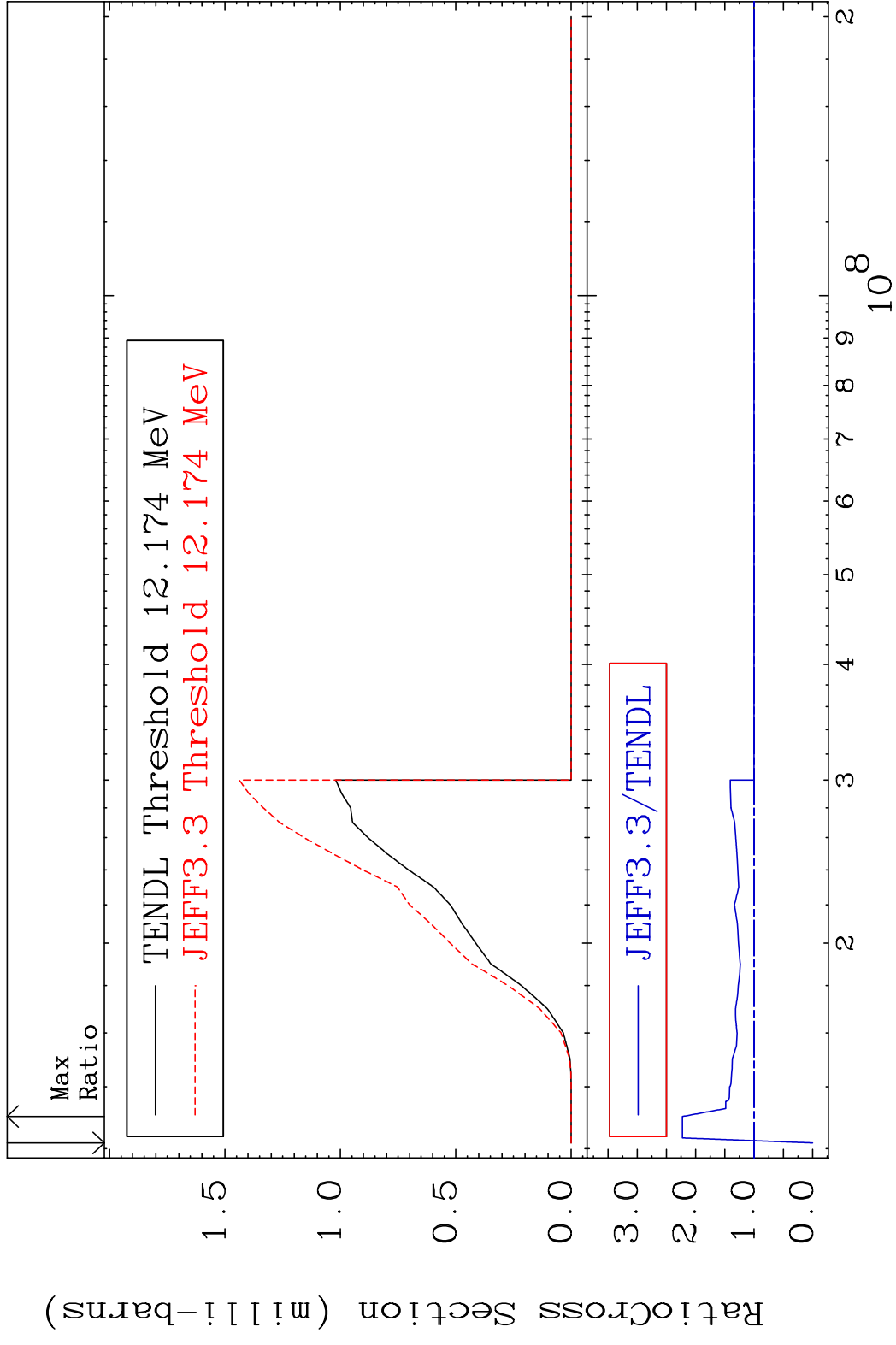
Cross Section -100.0 To 430.8 %



MAT 1122 (n,3α) 11-Na-22
 Cross Section -100.0 To 804.0 %



MAT 1122 (n,2p) 11-Na-22
 Cross Section -100.0 To 122.8 %

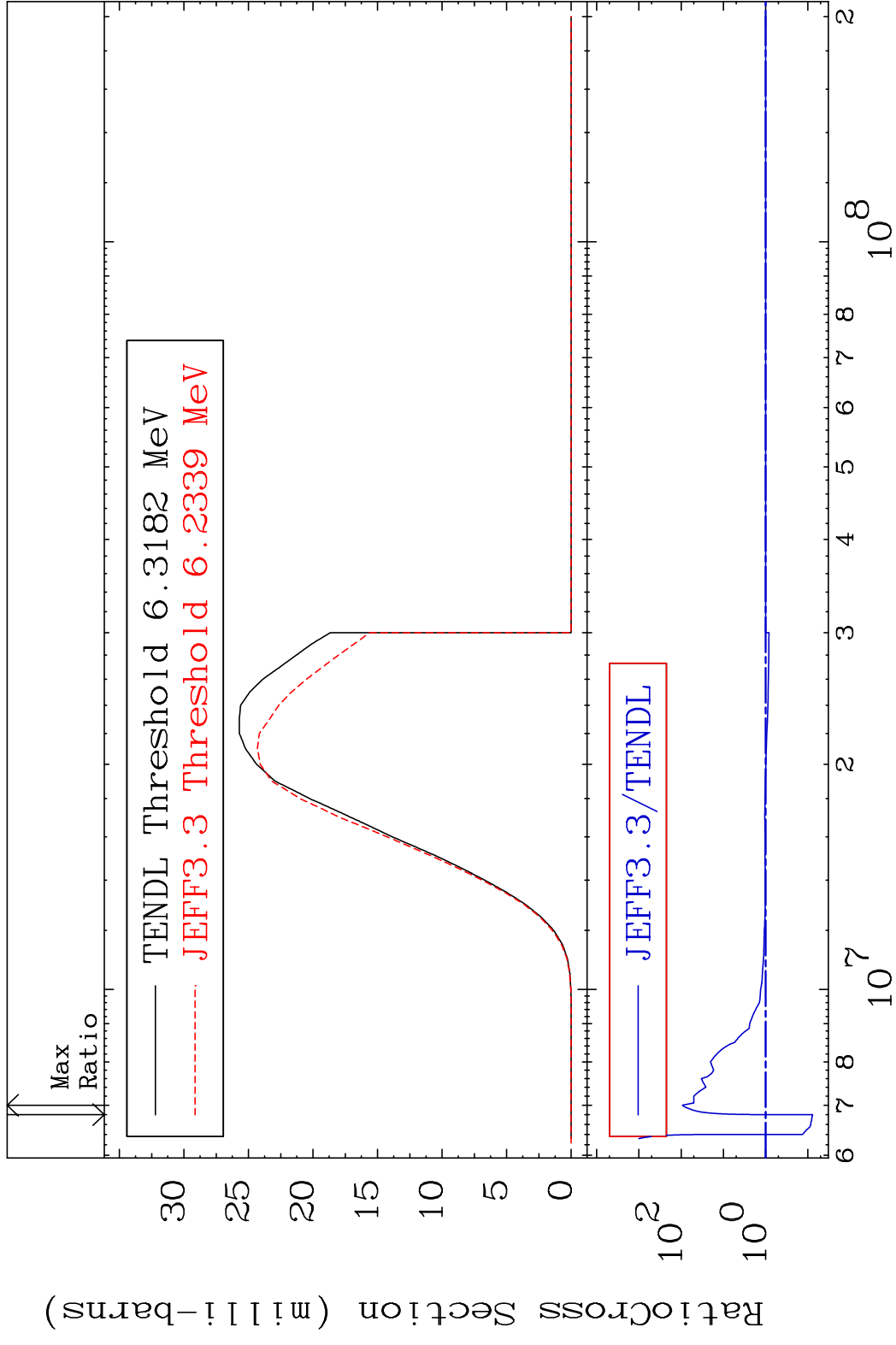


MAT 1122

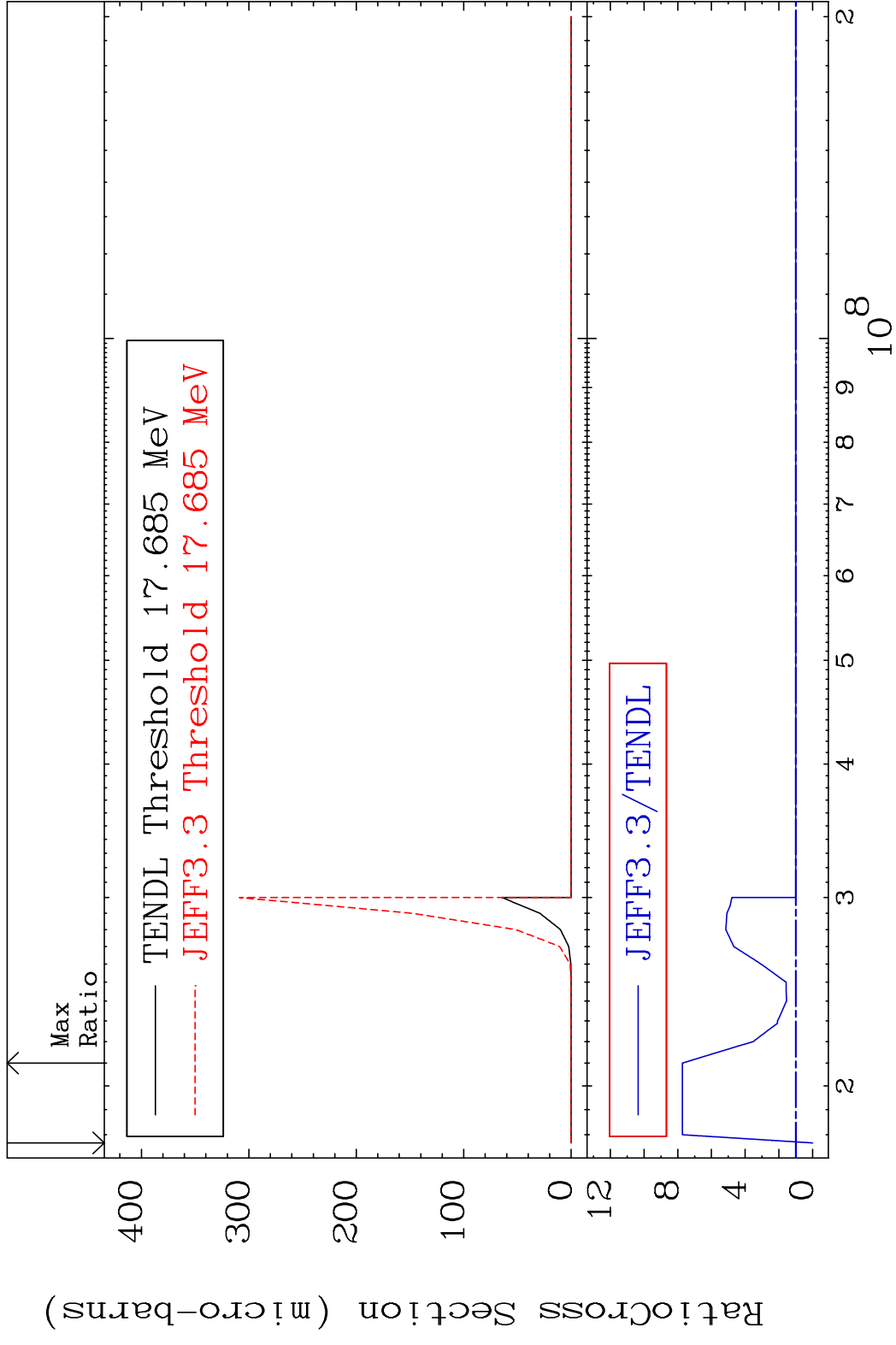
(n,p) α

11-Na-22

Cross Section -92.24 To 9272. %



MAT 1122 (n, t) 2α 11-Na-22
 Cross Section -100.0 To 672.6 %

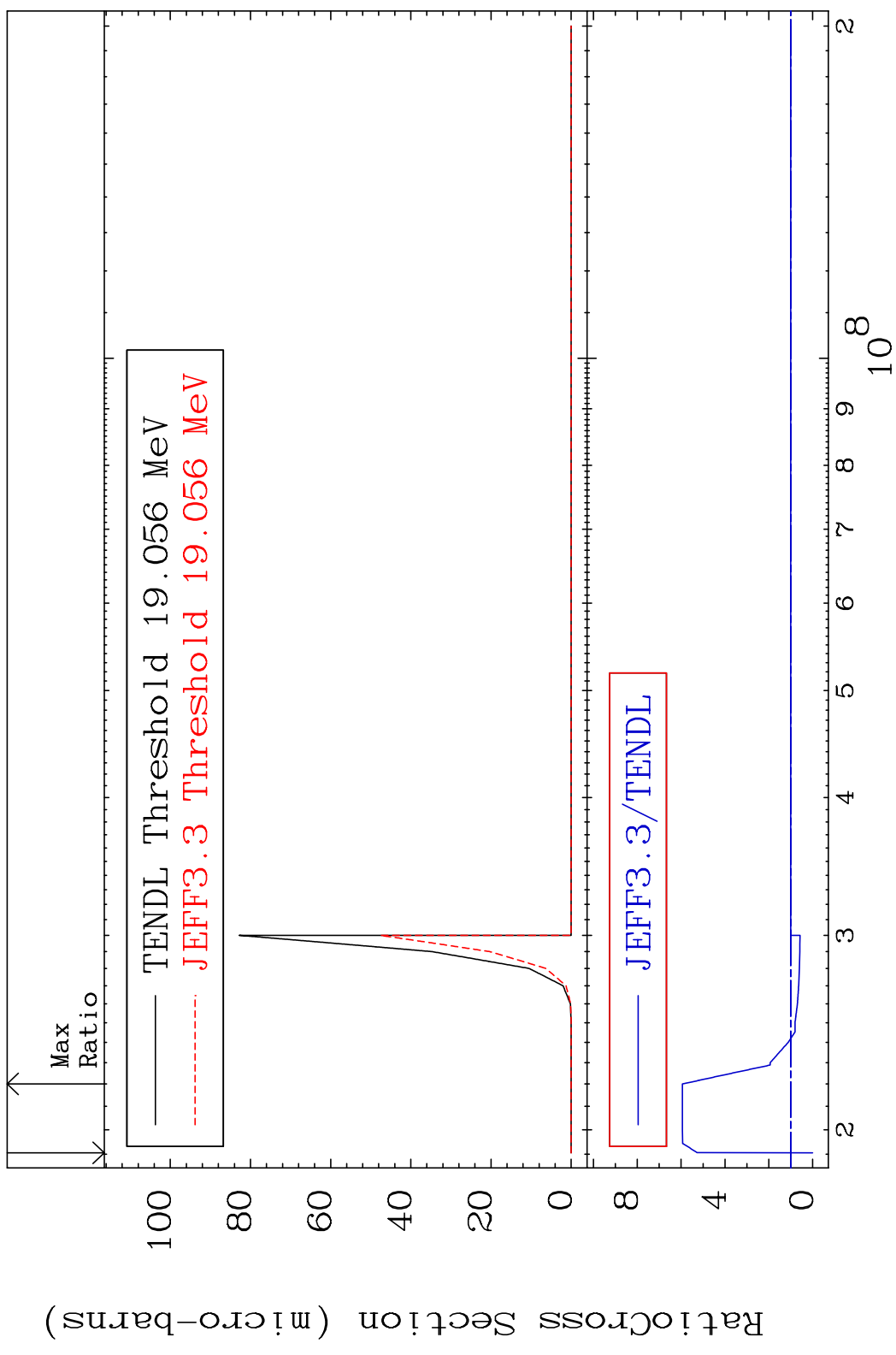


MAT 1122

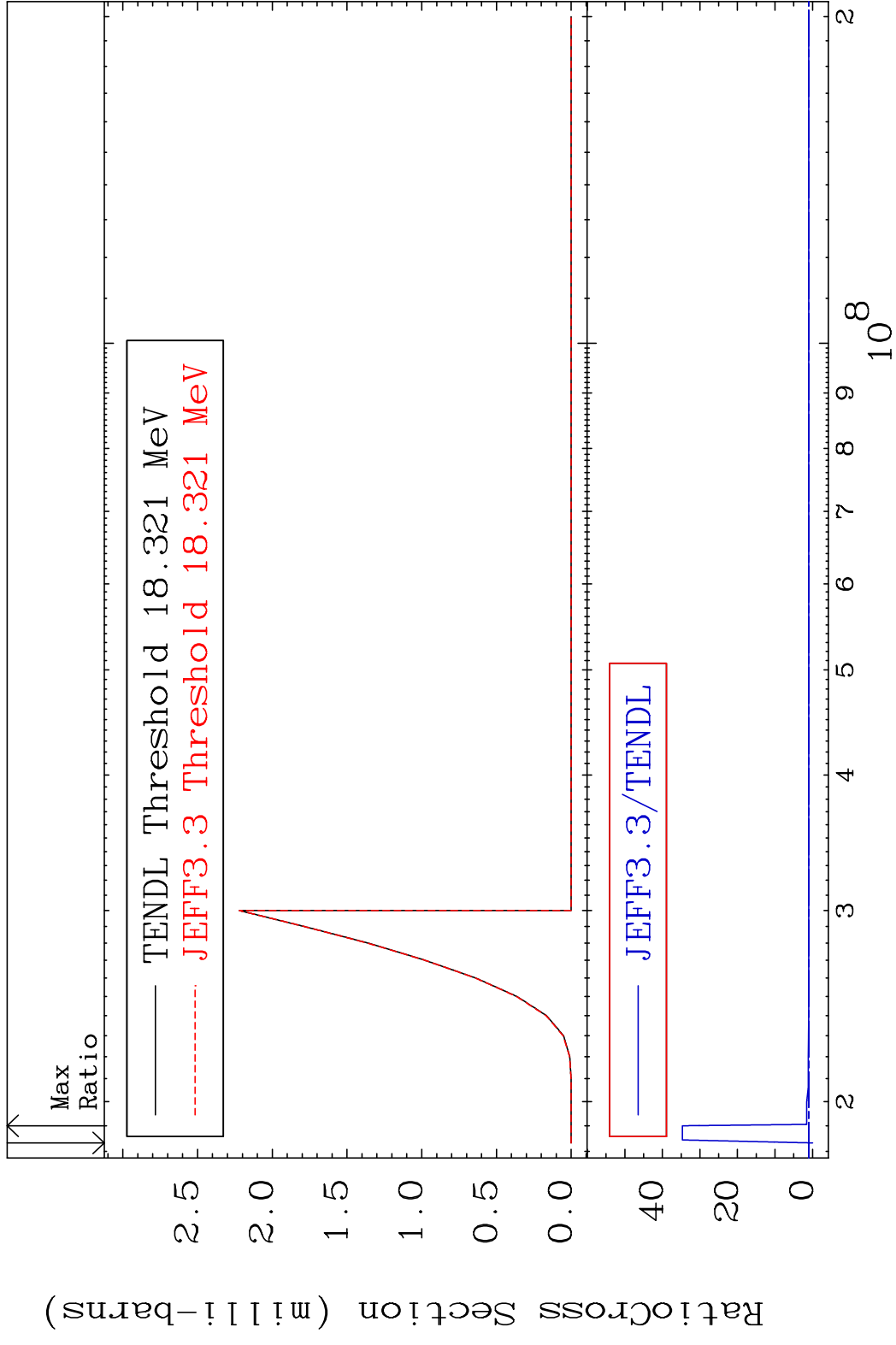
(n, d) 2α

11-Na-22

Cross Section -100.0 To 494.4 %



MAT 1122 (n,p) d 11-Na-22
 Cross Section -100.0 To 3368. %

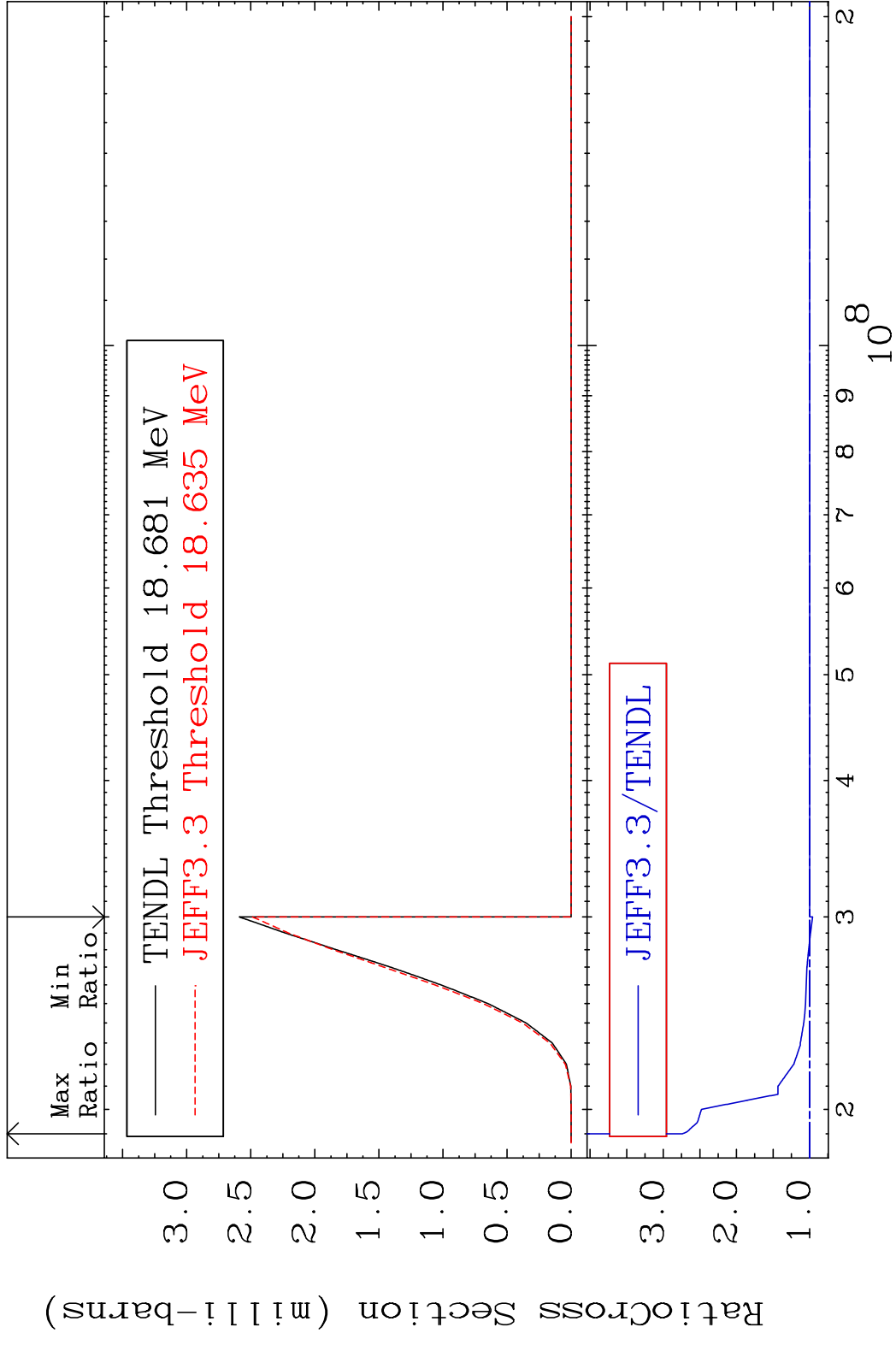


MAT 1122

(n,p) t

11-Na-22

Cross Section -3.975 To 173.9 %

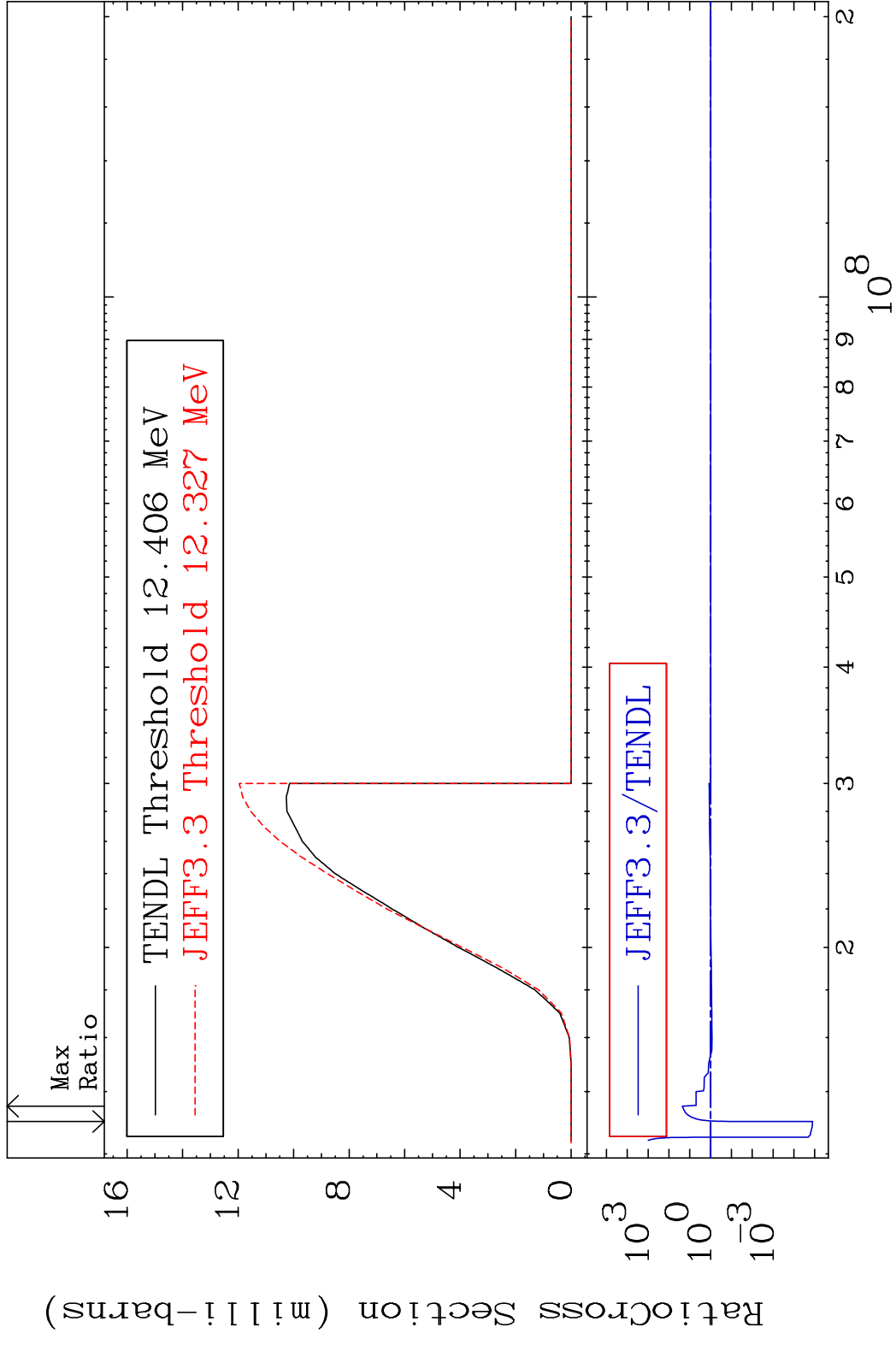


MAT 1122

(n,d) α

11-Na-22

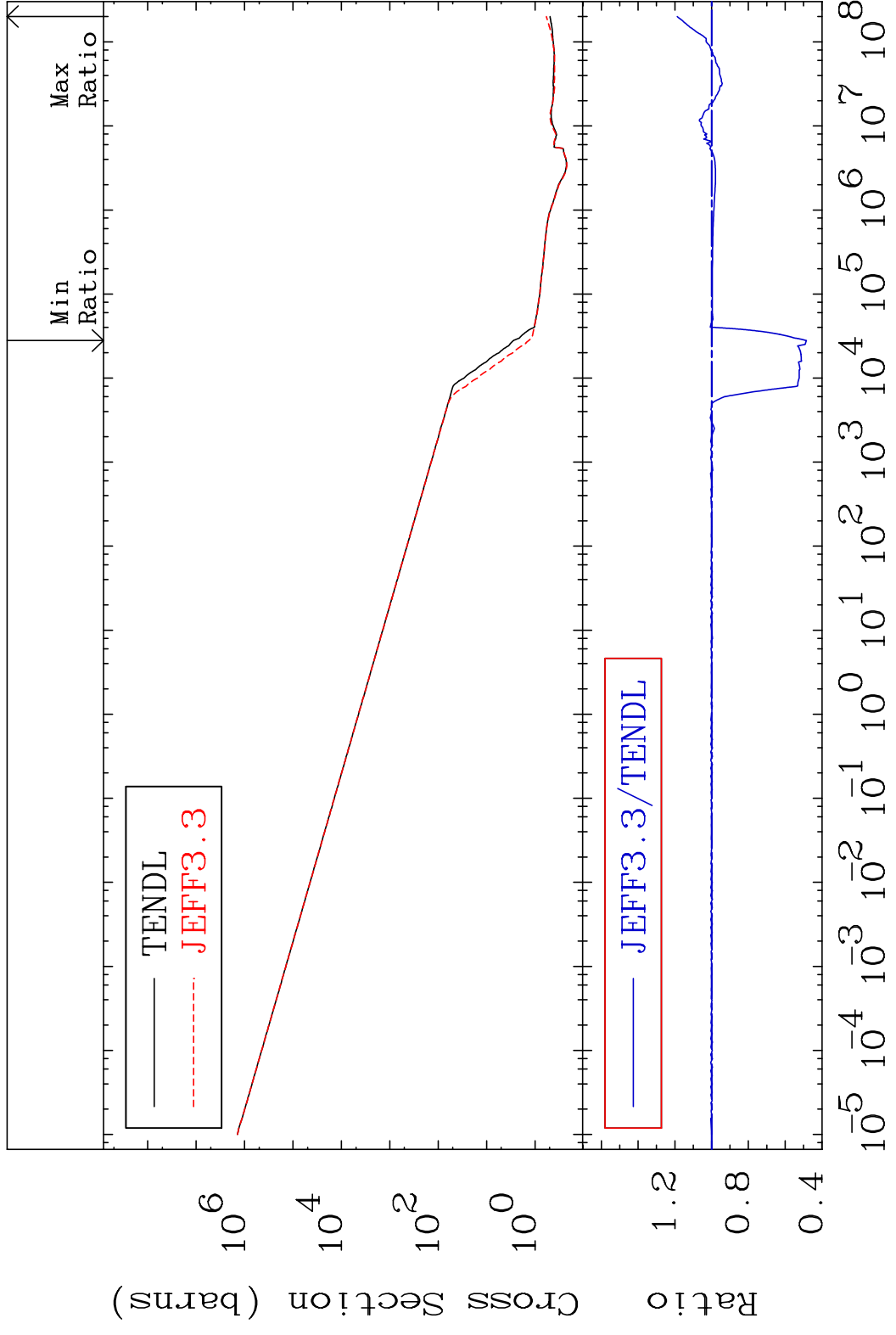
Cross Section -100.0 To 2171. %



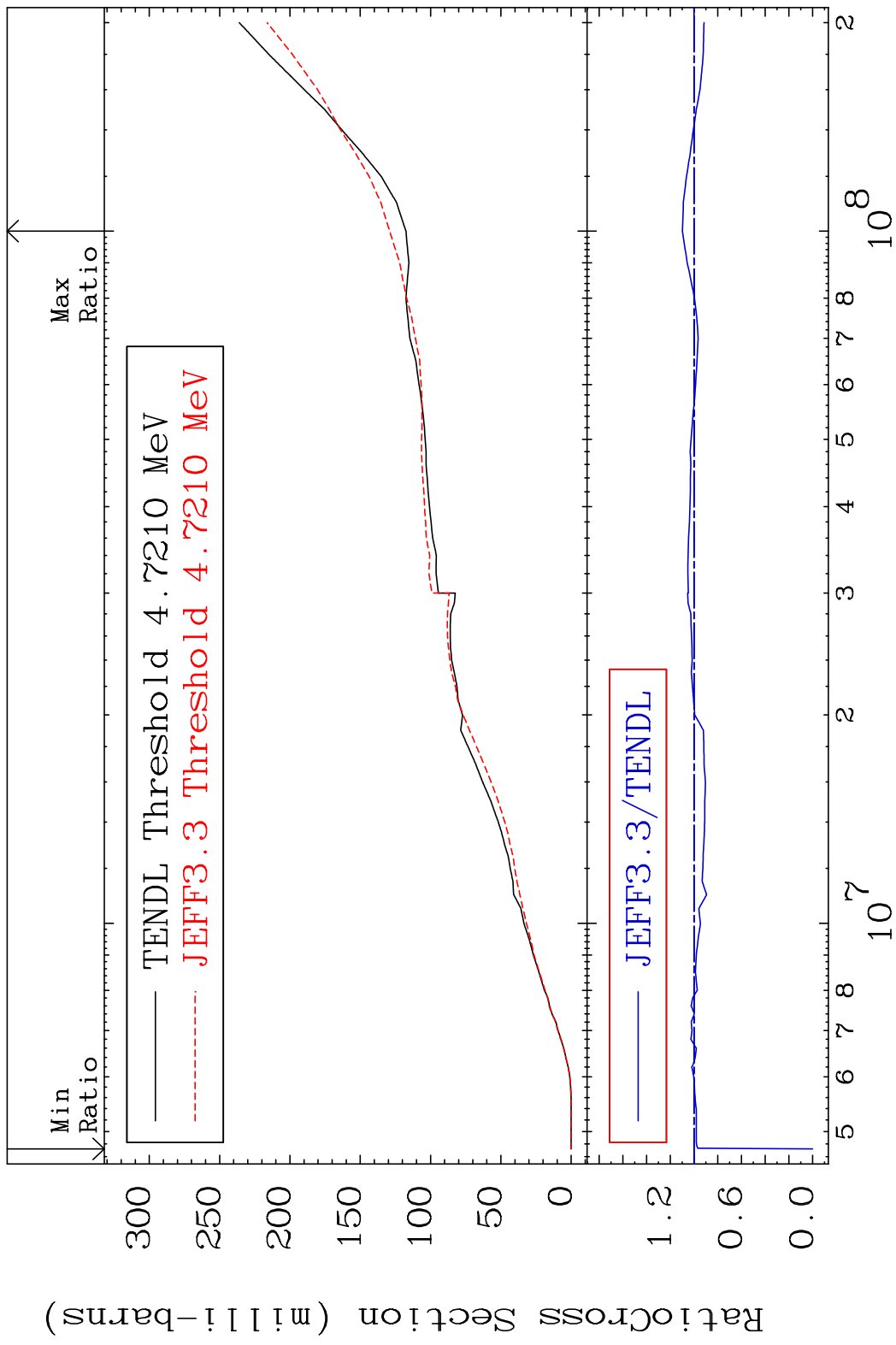
MAT 1122

Hydrogen Production
Cross Section

11-Na-22
-51.57 To 18.74 %



MAT 1122 Deuterium Production 11-Na-22
 Cross Section -100.0 To 9.843 %

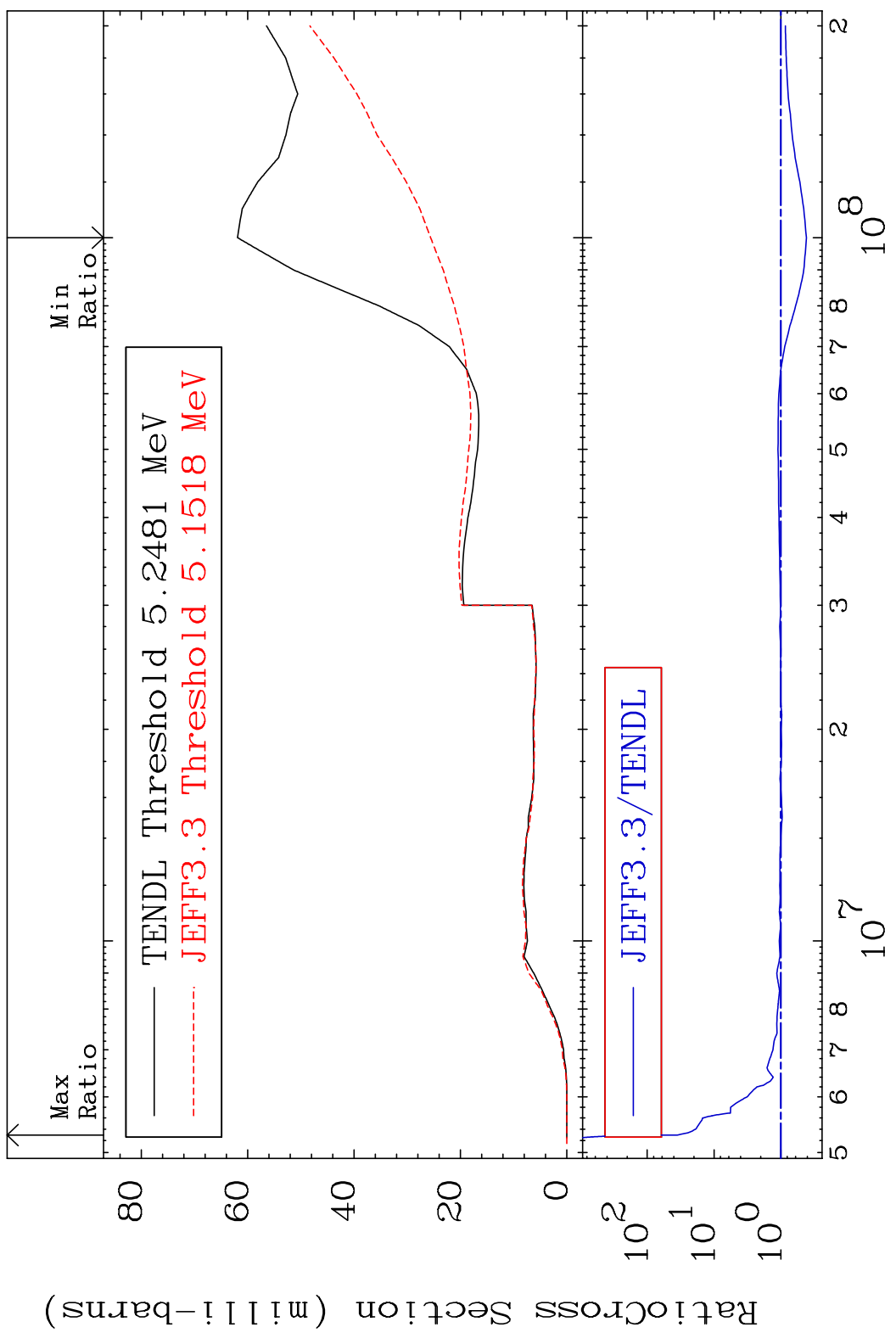


MAT 1122

Tritium Production

11-Na-22

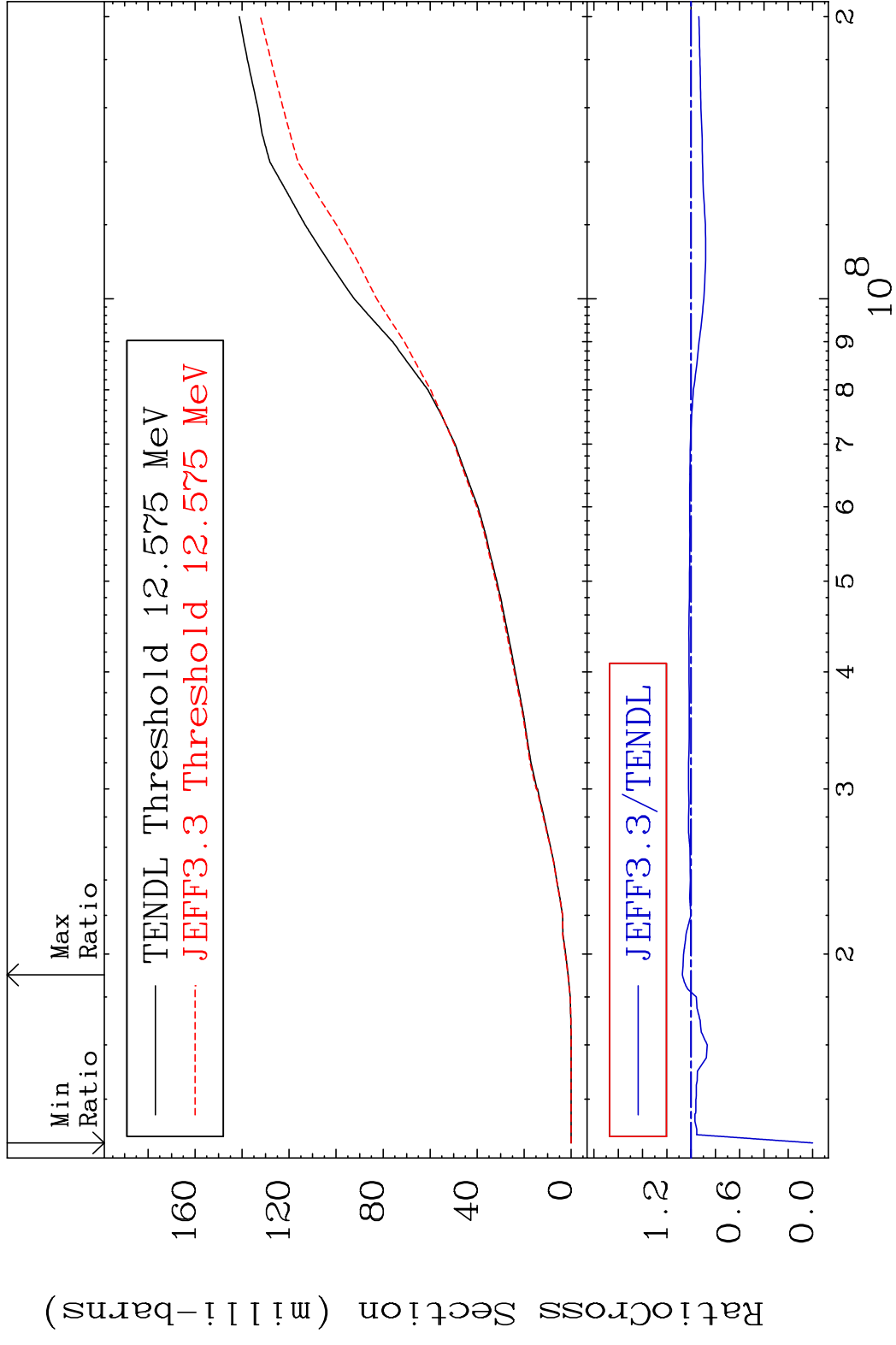
Cross Section -58.65 To 3459. %



60

11-Na-22

MAT 1122 He-3 Production 11-Na-22
 Cross Section -100.0 To 7.235 %

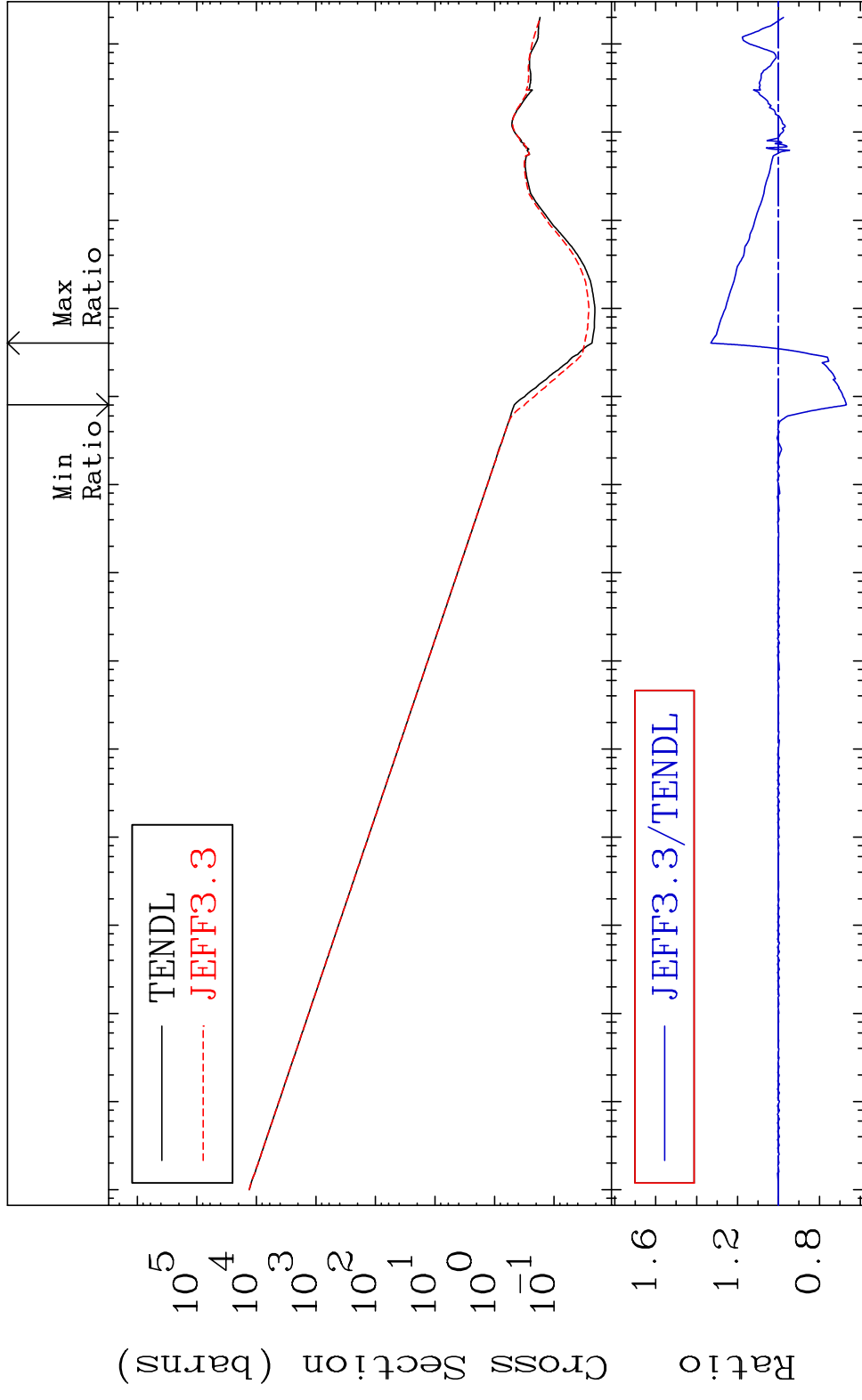


MAT 1122

He-4 Production

11-Na-22

Cross Section -33.14 To 33.12 %



62

Incident Energy (eV)

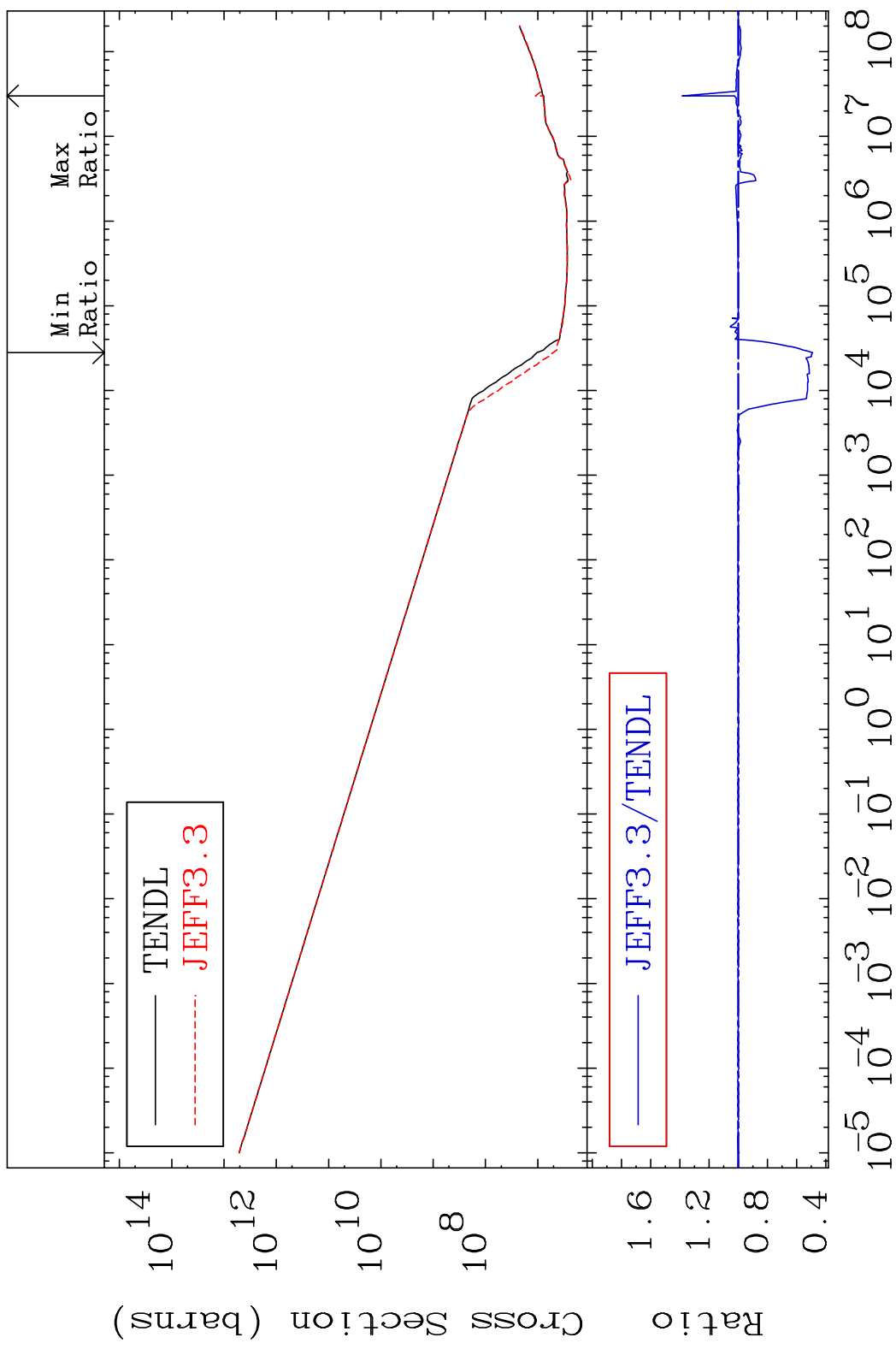
11-Na-22

MAT 1122

Kerma total (eV-barns)

11-Na-22

Cross Section -50.88 To 38.29 %



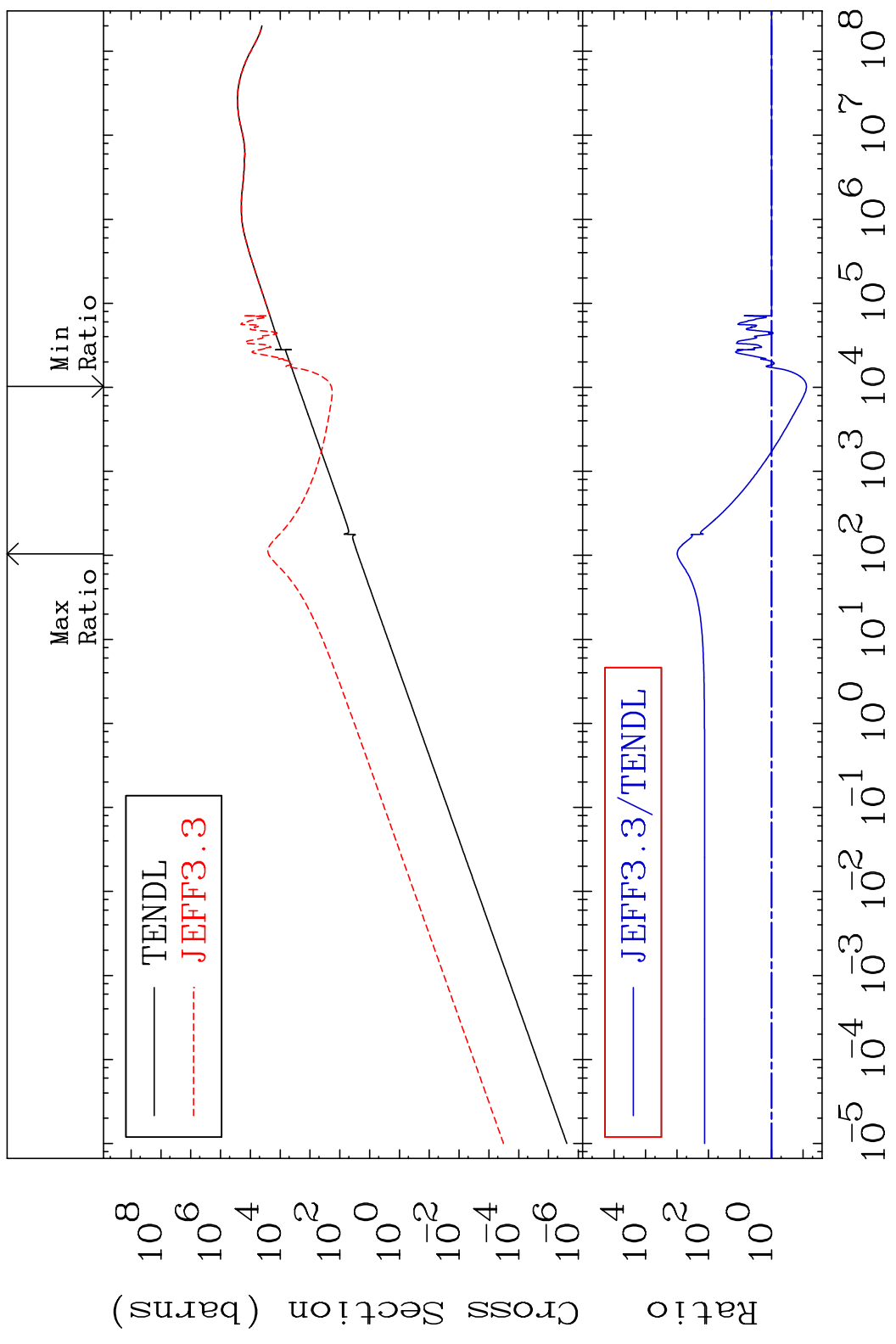
63

Incident Energy (eV)

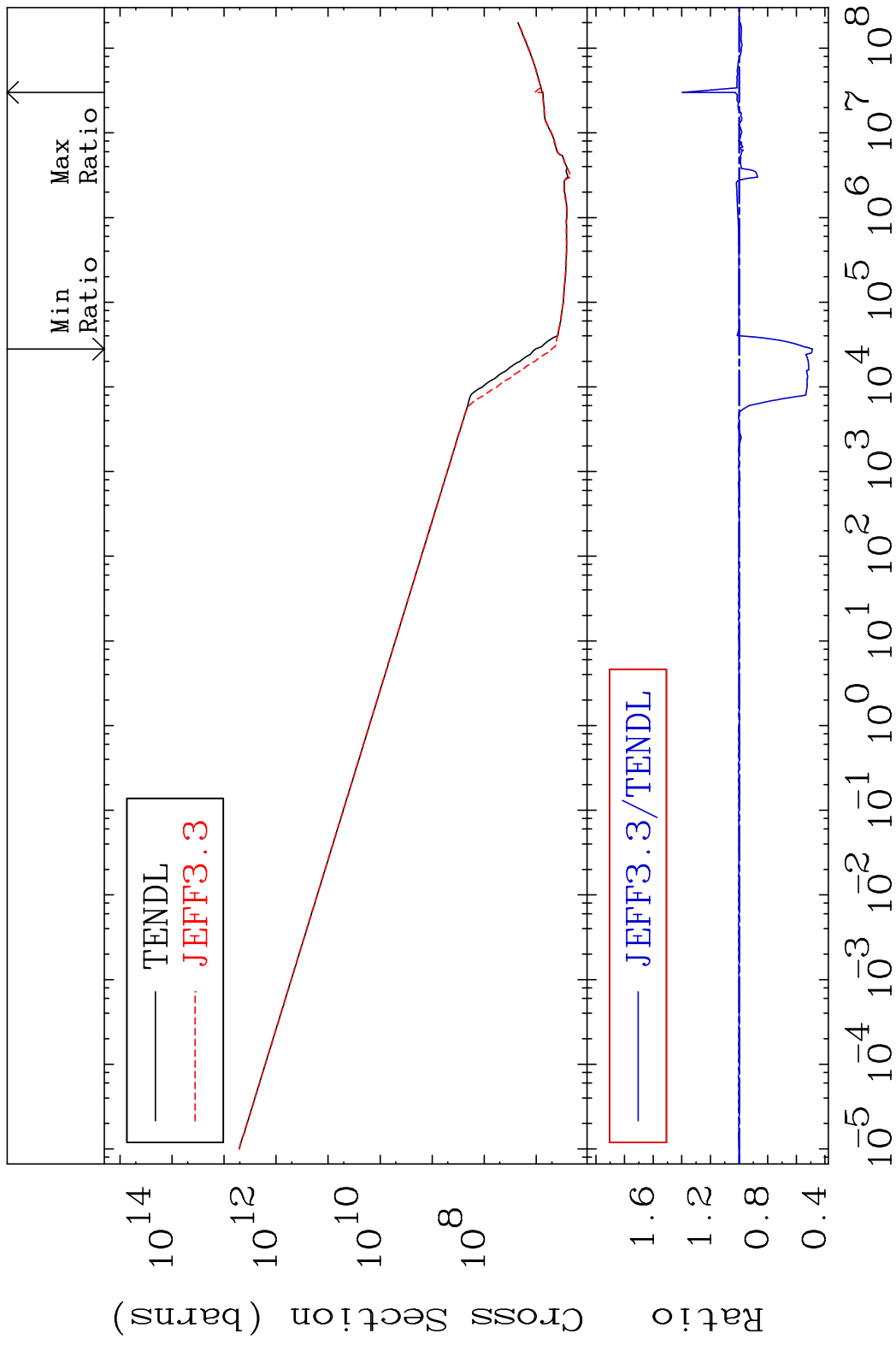
11-Na-22

MAT 1122

Kerma elastic Cross Section -92.19 To 9999. %
11-Na-22

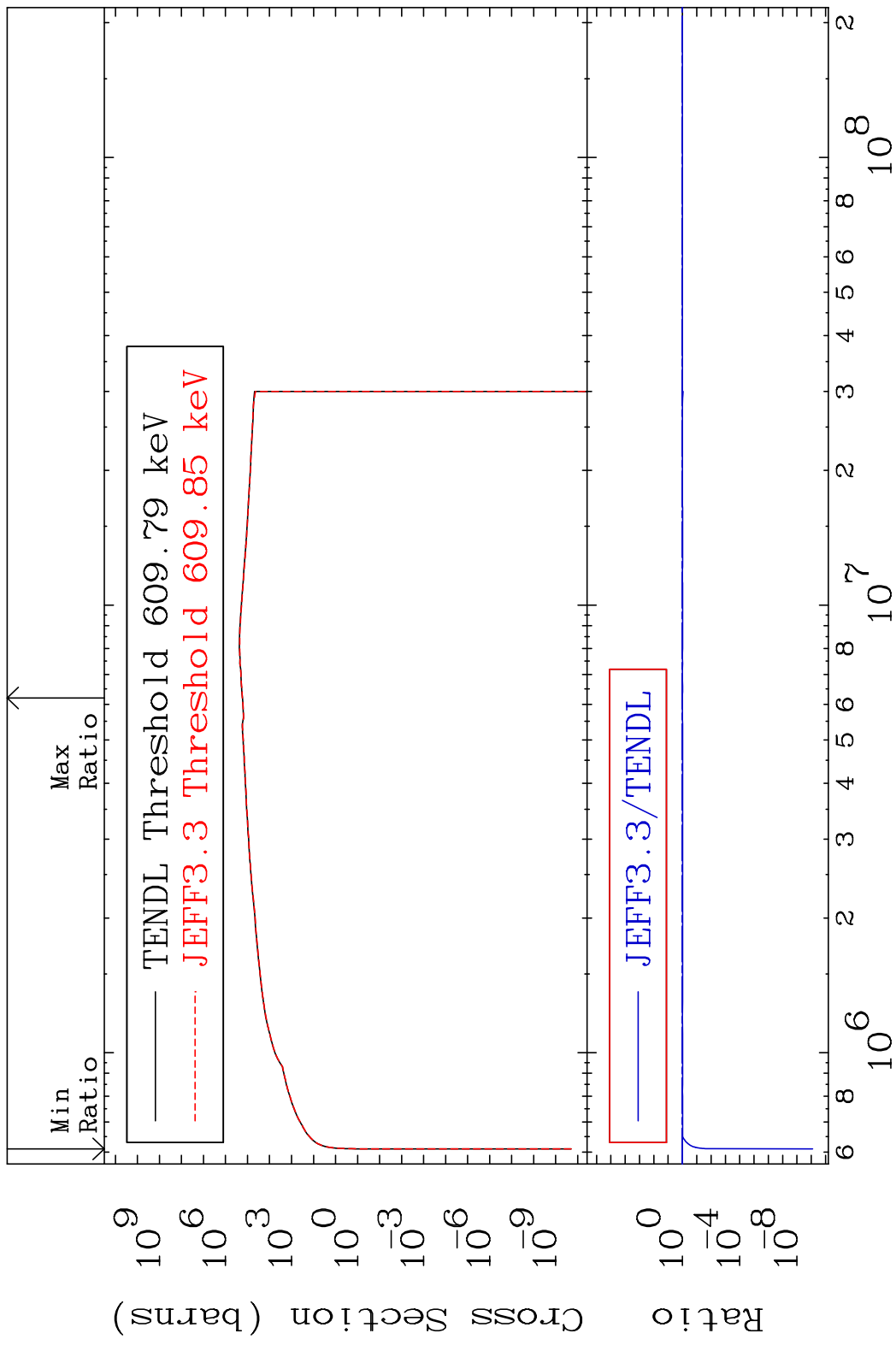


MAT 1122 Kerma non-elastic (all but mt2) 11-Na-22
 Cross Section -51.30 To 39.62 %

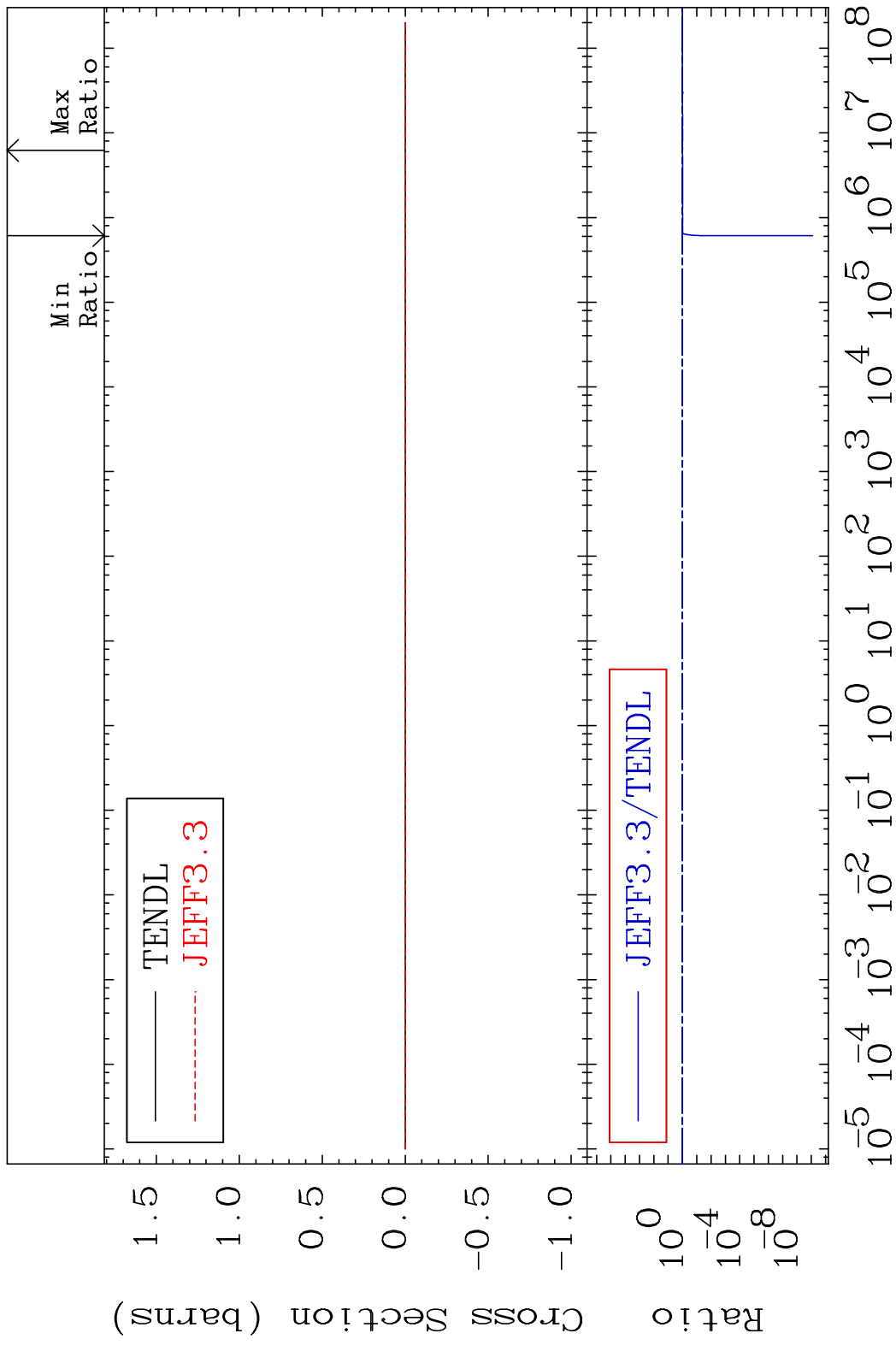


65 Incident Energy (eV) 11-Na-22

MAT 1122 Kerma inelastic (mt51-91) 11-Na-22
 Cross Section -100.0 To 1.426 %

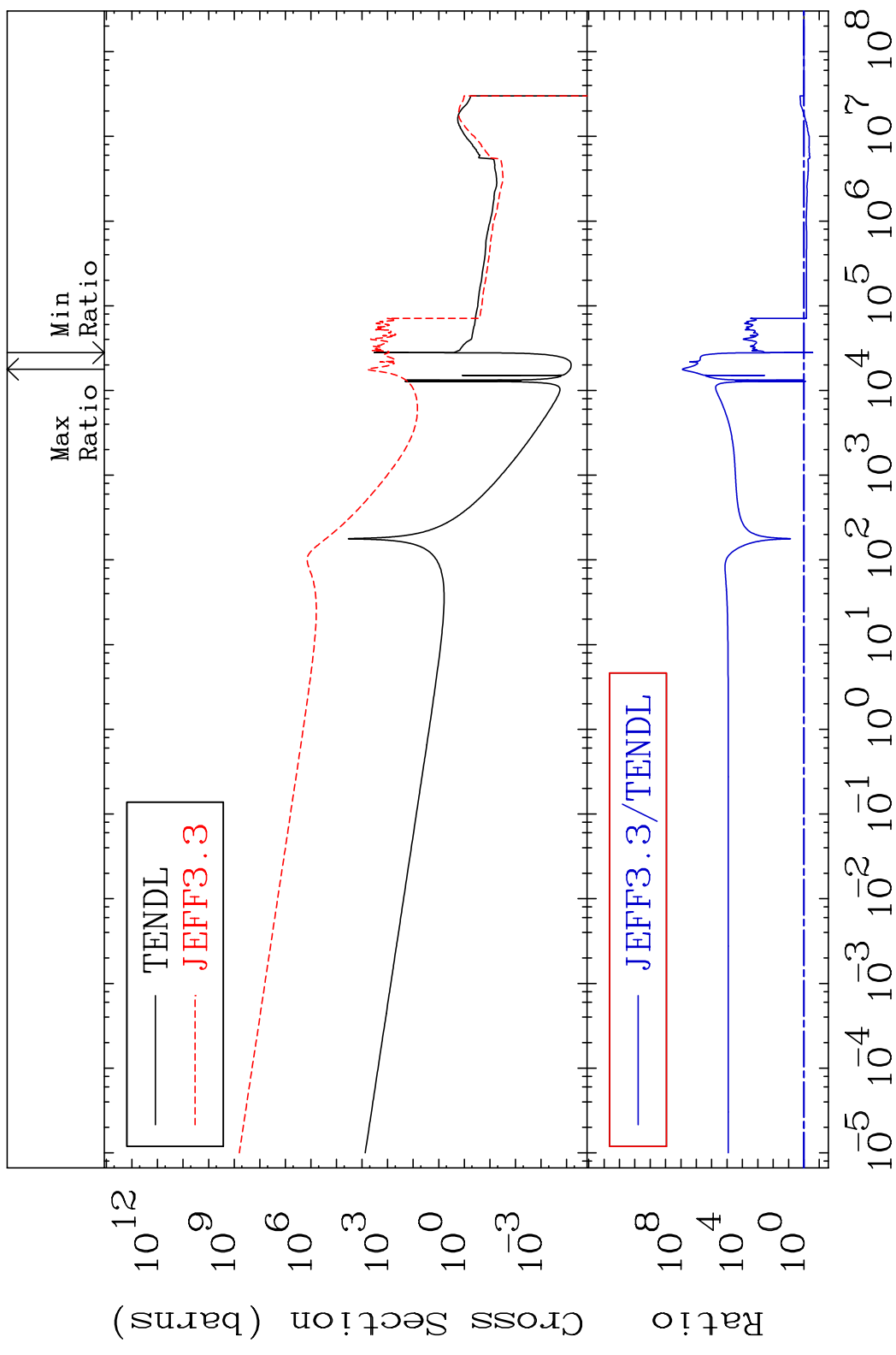


MAT 1122 Kerma fission (mt18 or mt19-20-21-38) 11-Na-22
 Cross Section -100.0 To 1.426 %



MAT 1122

Kerma capture (mt102) 11-Na-22
Cross Section -72.49 To 9999. %

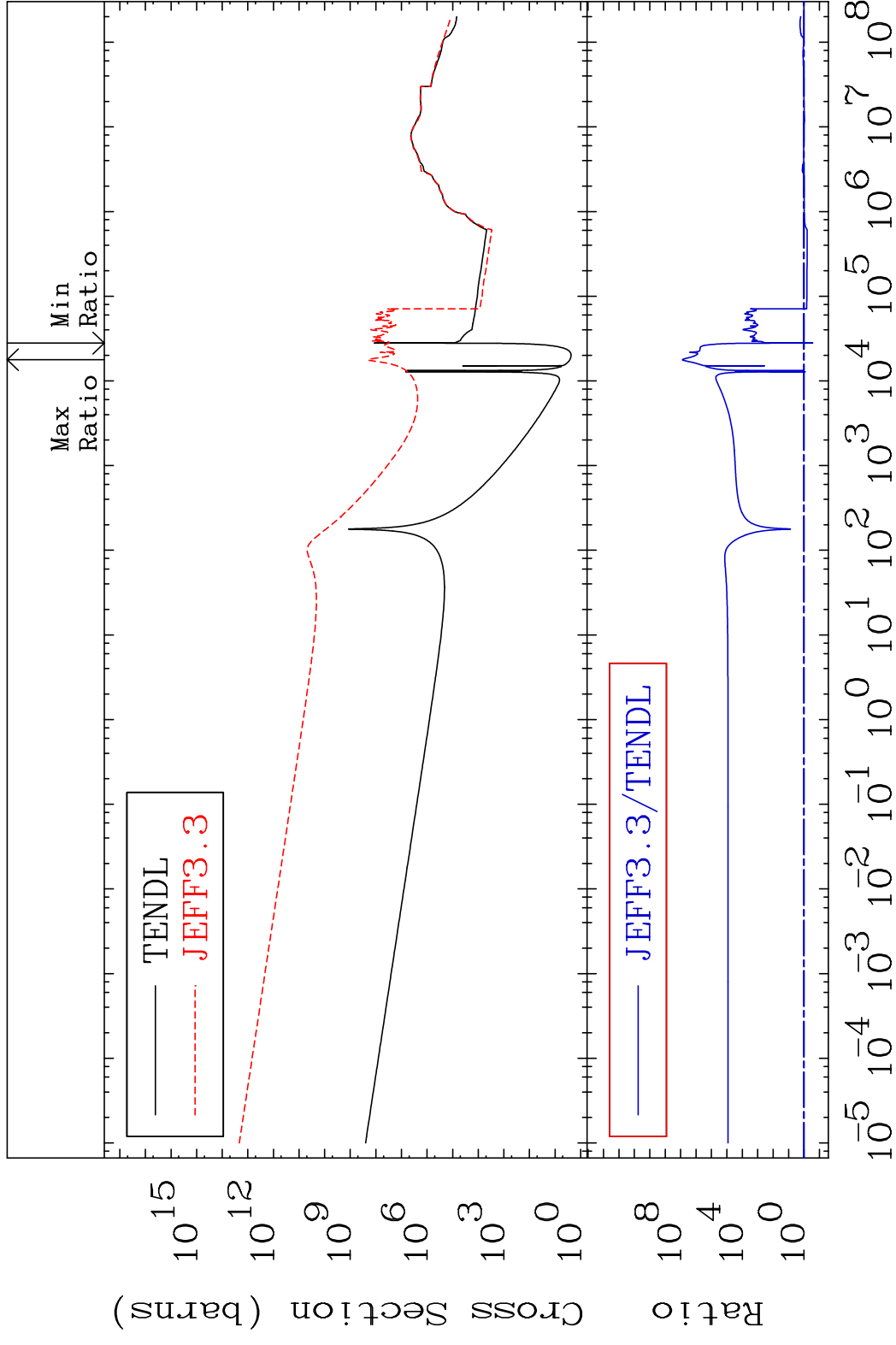


MAT 1122

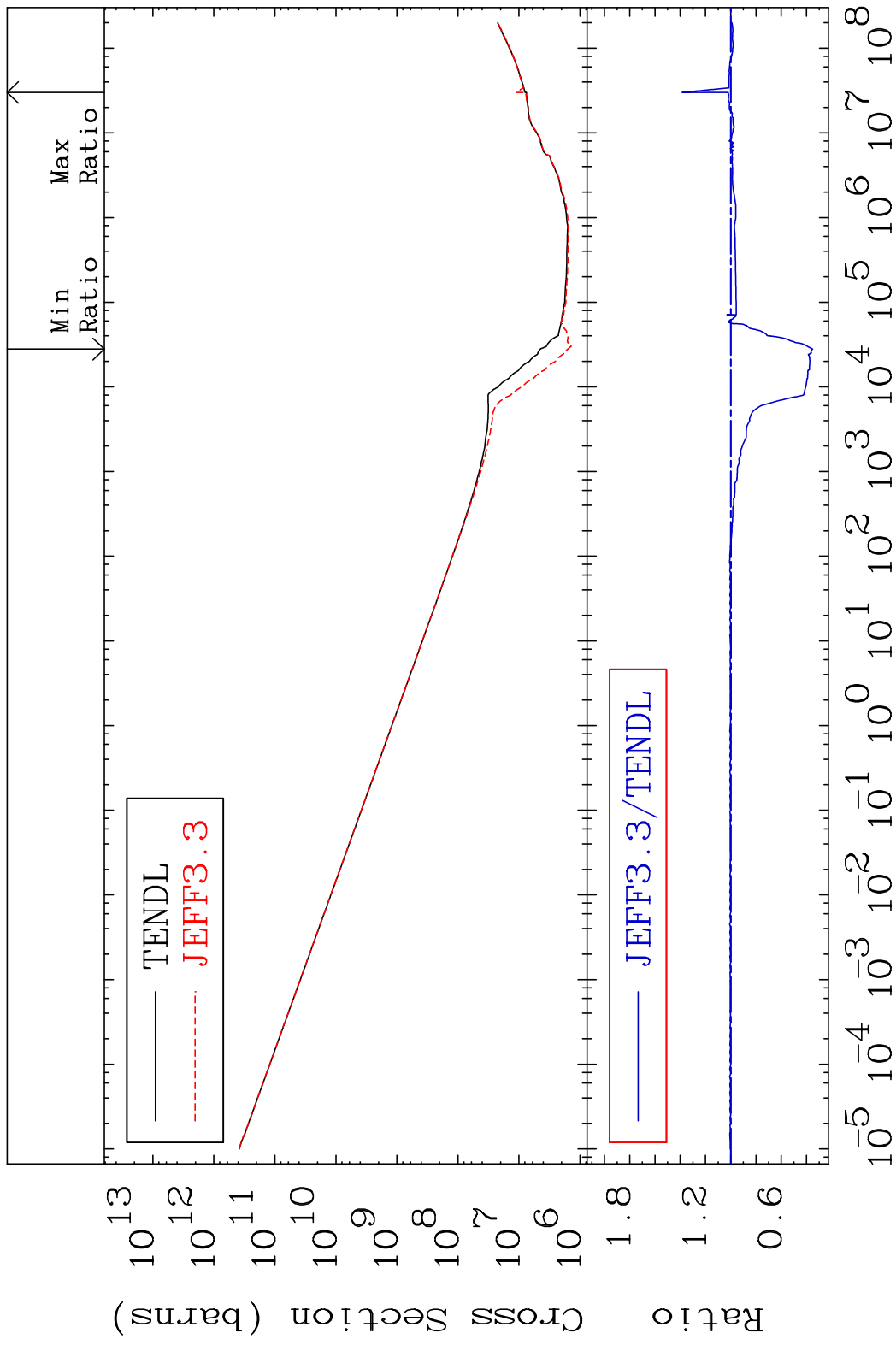
Total photon (eV-barns)

11-Na-22

Cross Section -72.17 To 9999. %



MAT 1122 Total kinematic kerma (high limit) 11-Na-22
 Cross Section -64.81 To 38.29 %



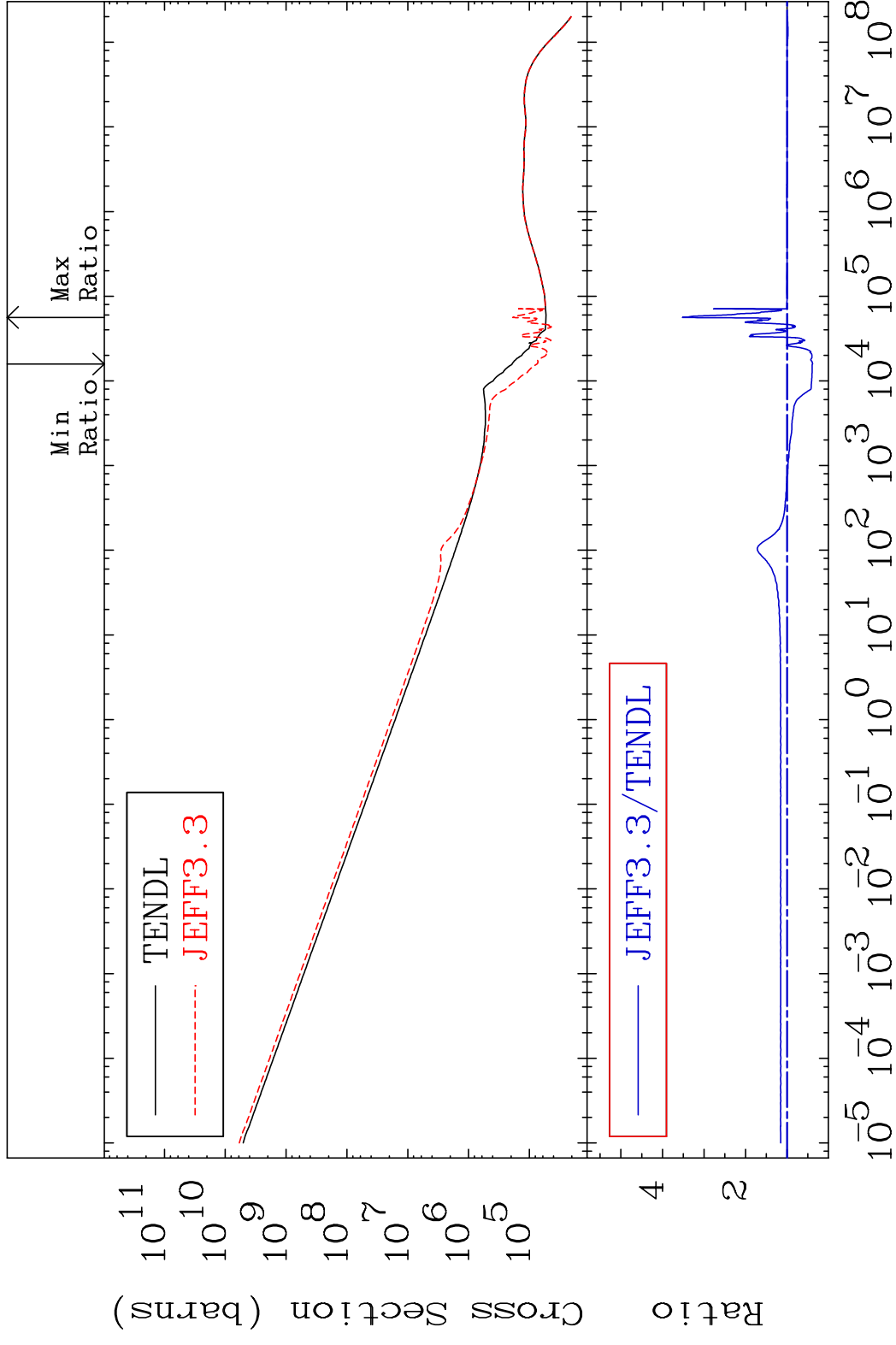
70 Incident Energy (eV) 11-Na-22

MAT 1122

Dpa total (eV-barns)

11-Na-22

Cross Section -61.21 To 252.2 %



71

Incident Energy (eV)

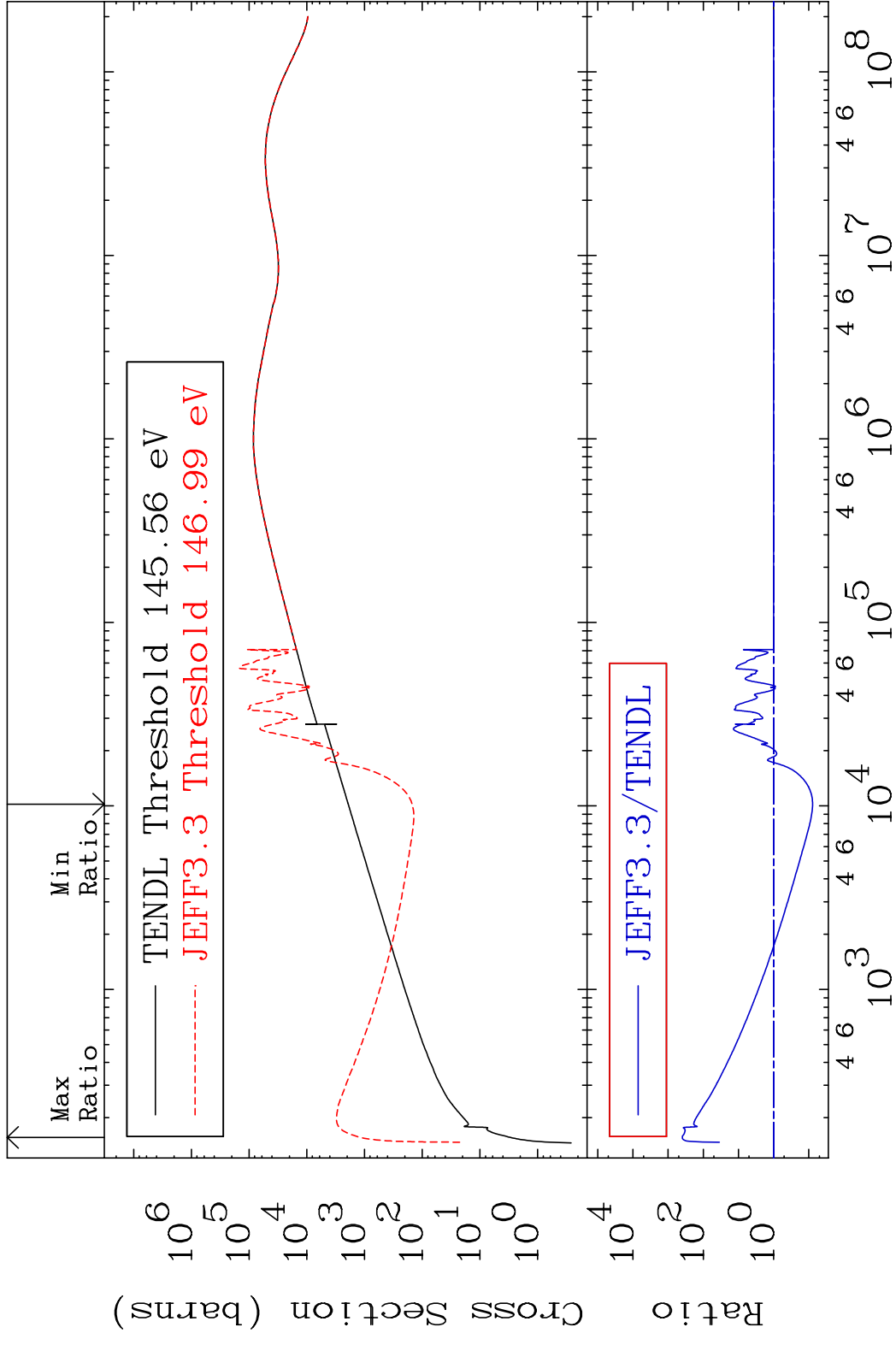
11-Na-22

MAT 1122

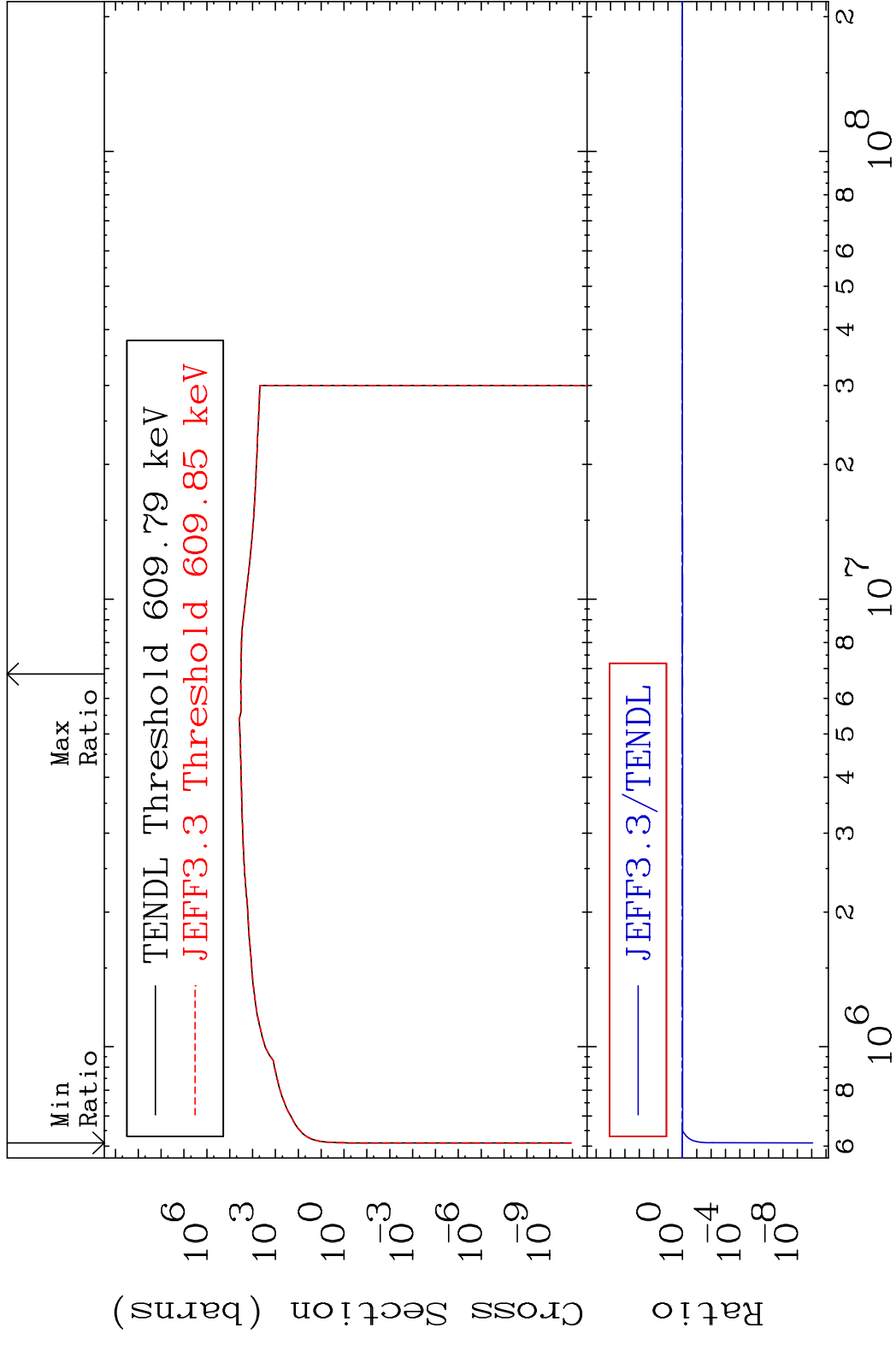
Dpa elastic (mt2)

11-Na-22

Cross Section -92.19 To 9999. %



MAT 1122 Dpa inelastic (mt51-91) 11-Na-22
 Cross Section -100.0 To 1.462 %



MAT 1122 Dpa disappearance (mt102 -120) 11-Na-22
 Cross Section -64.85 To 71.83 %

