

Program Complot
(Version 2021-1)

by

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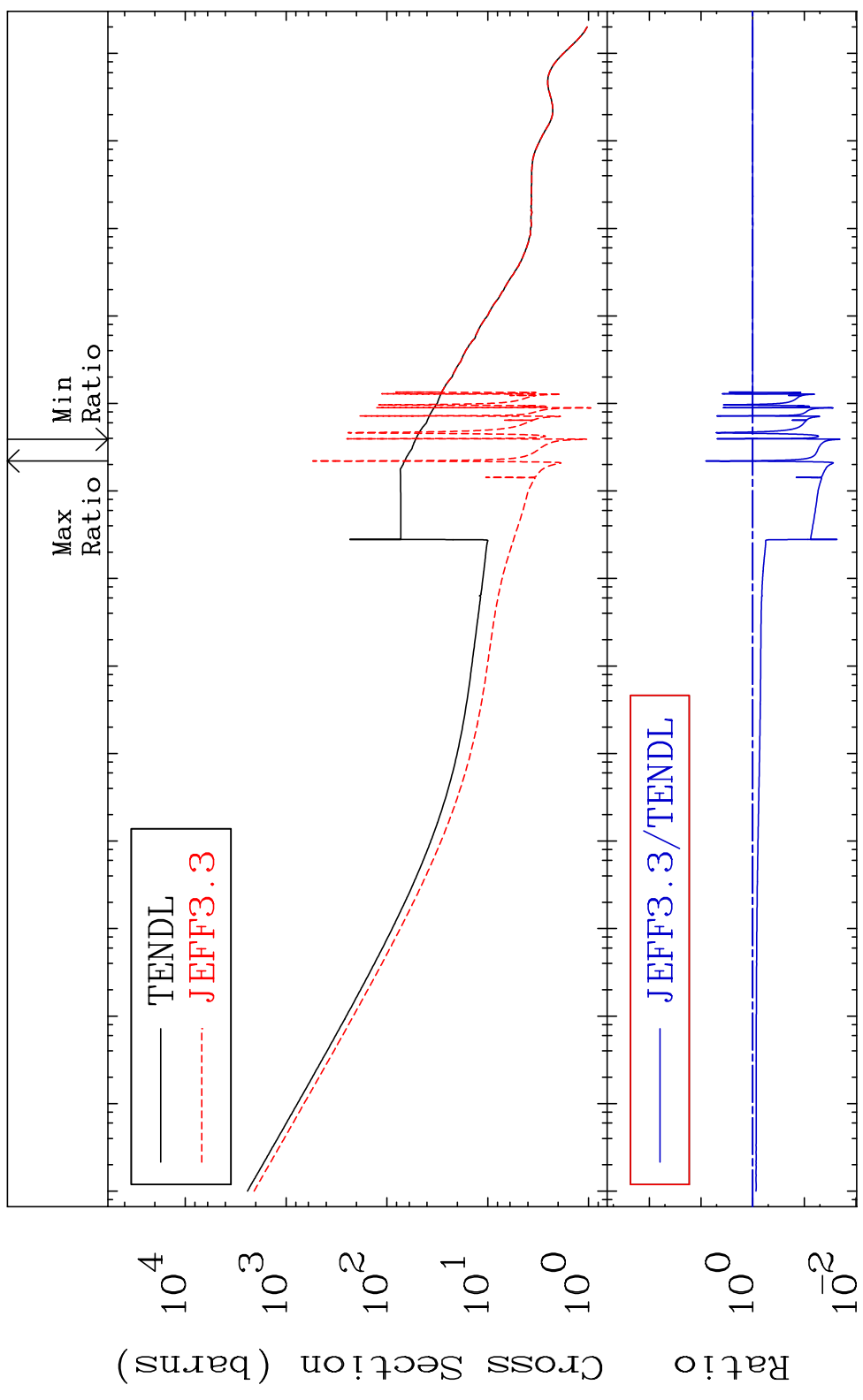
Press Mouse Button to Start

MAT 2522

Total

25-Mn-54

Cross Section -97.99 To 713.6 %



1

Incident Energy (eV)

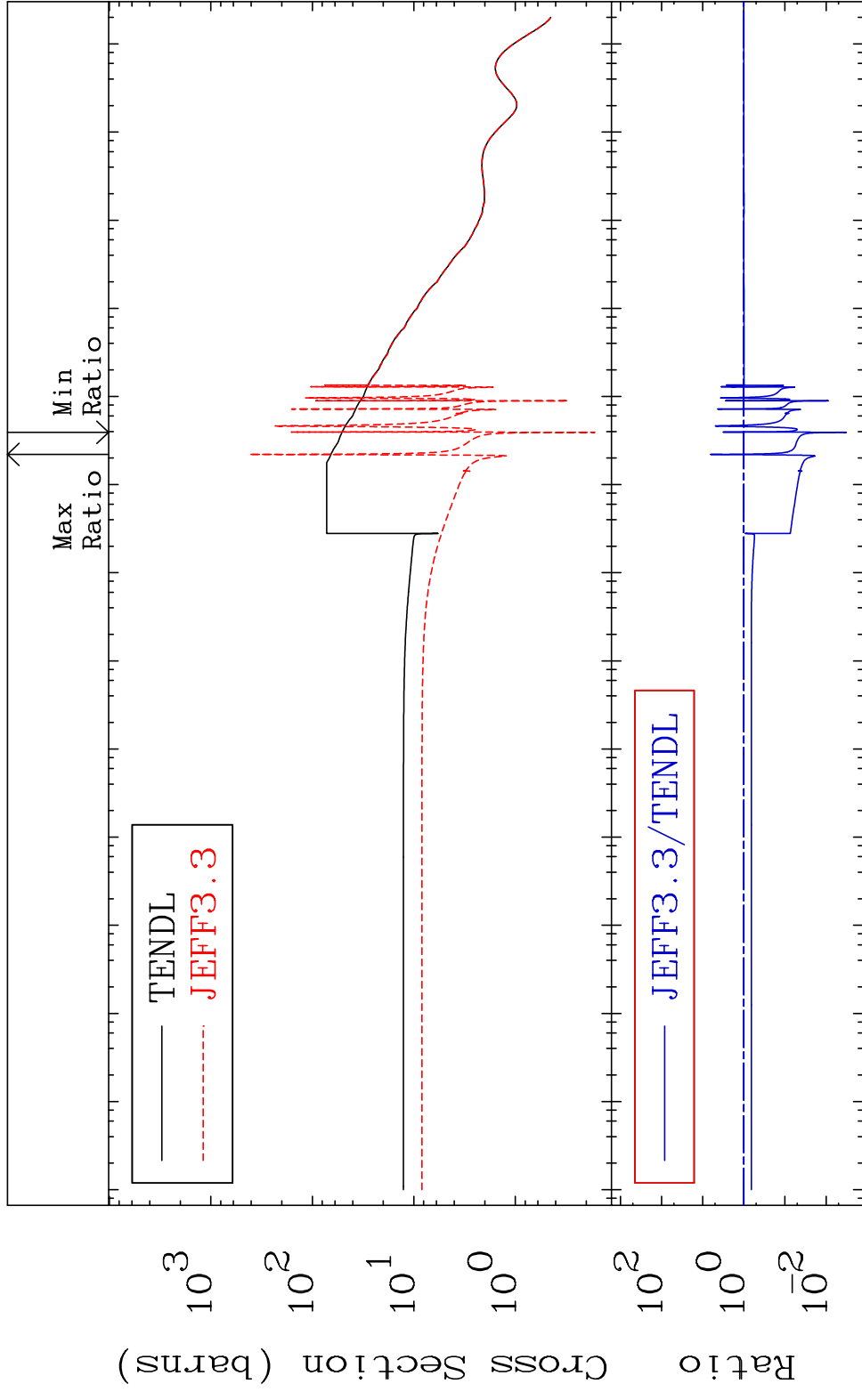
25-Mn-54

MAT 2522

Elastic

25-Mn-54

Cross Section -99.68 To 537.6 %



Ratio
Cross Section (barns)

10³
10²
10¹
10⁰
10⁻²

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

Incident Energy (eV)

2

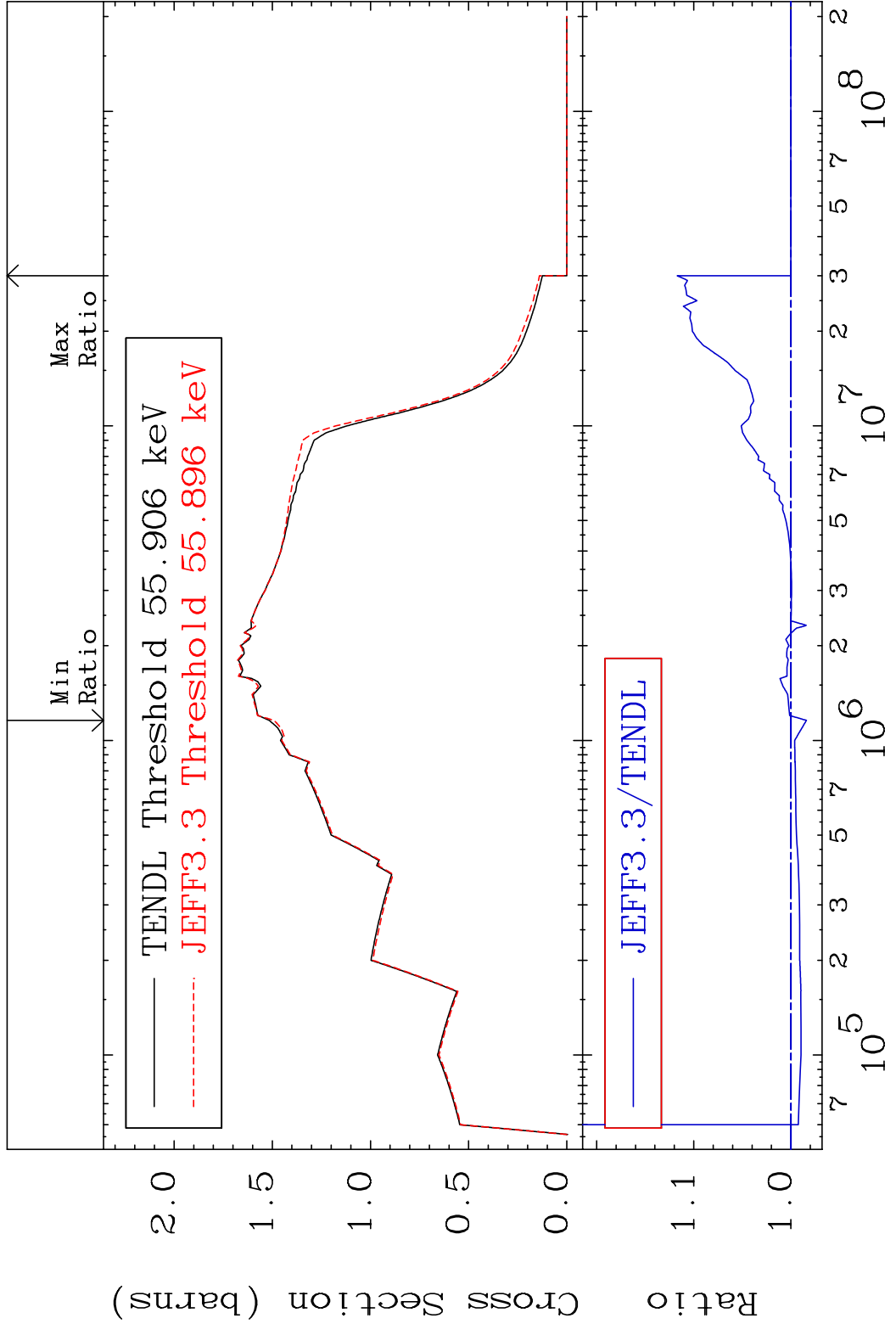
25-Mn-54

MAT 2522

Inelastic

25-Mn-54

Cross Section -1.598 To 11.70 %



3

Incident Energy (eV)

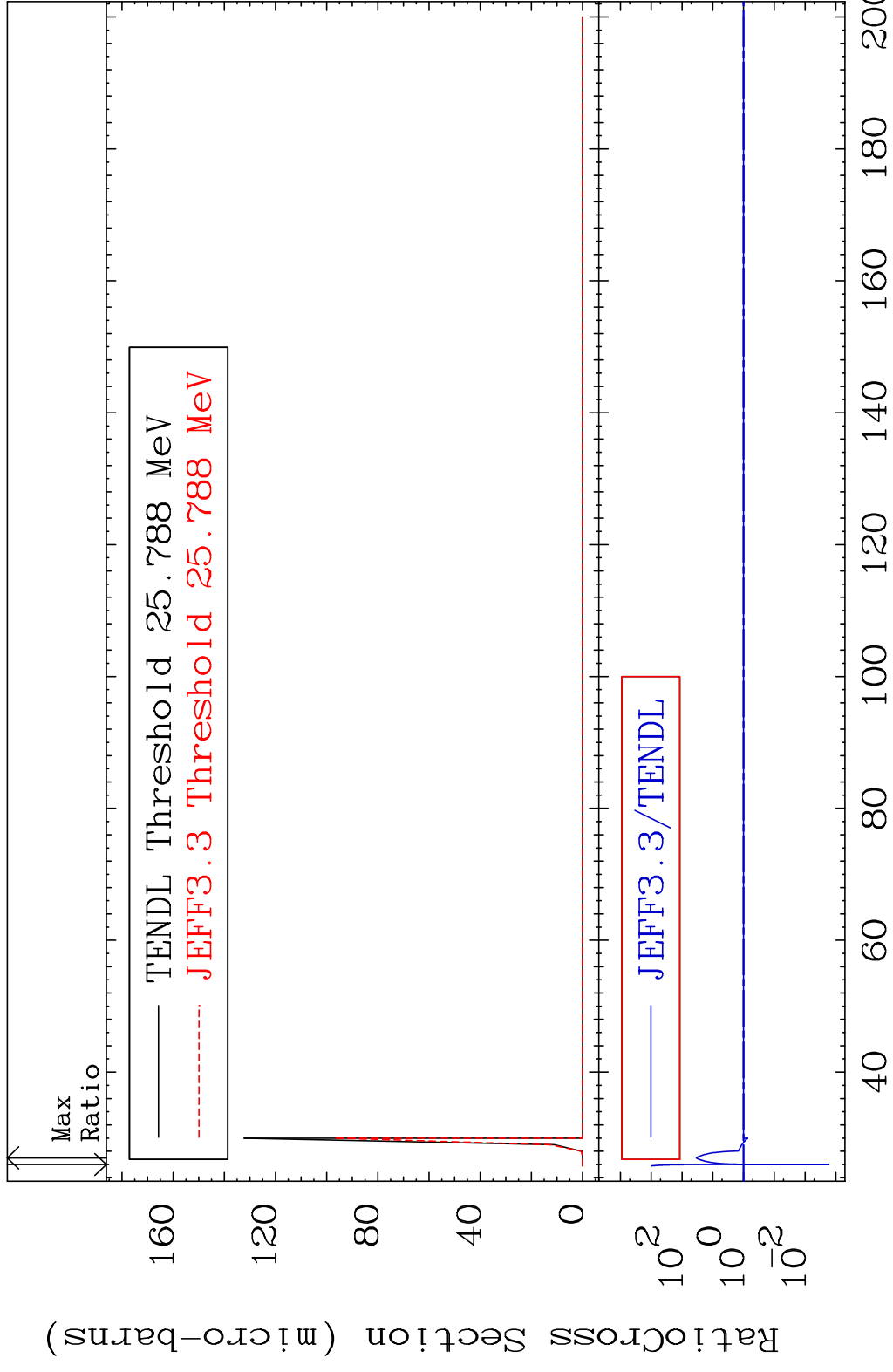
25-Mn-54

MAT 2522

(n,2n) d

25-Mn-54

Cross Section -99.83 To 3403. %

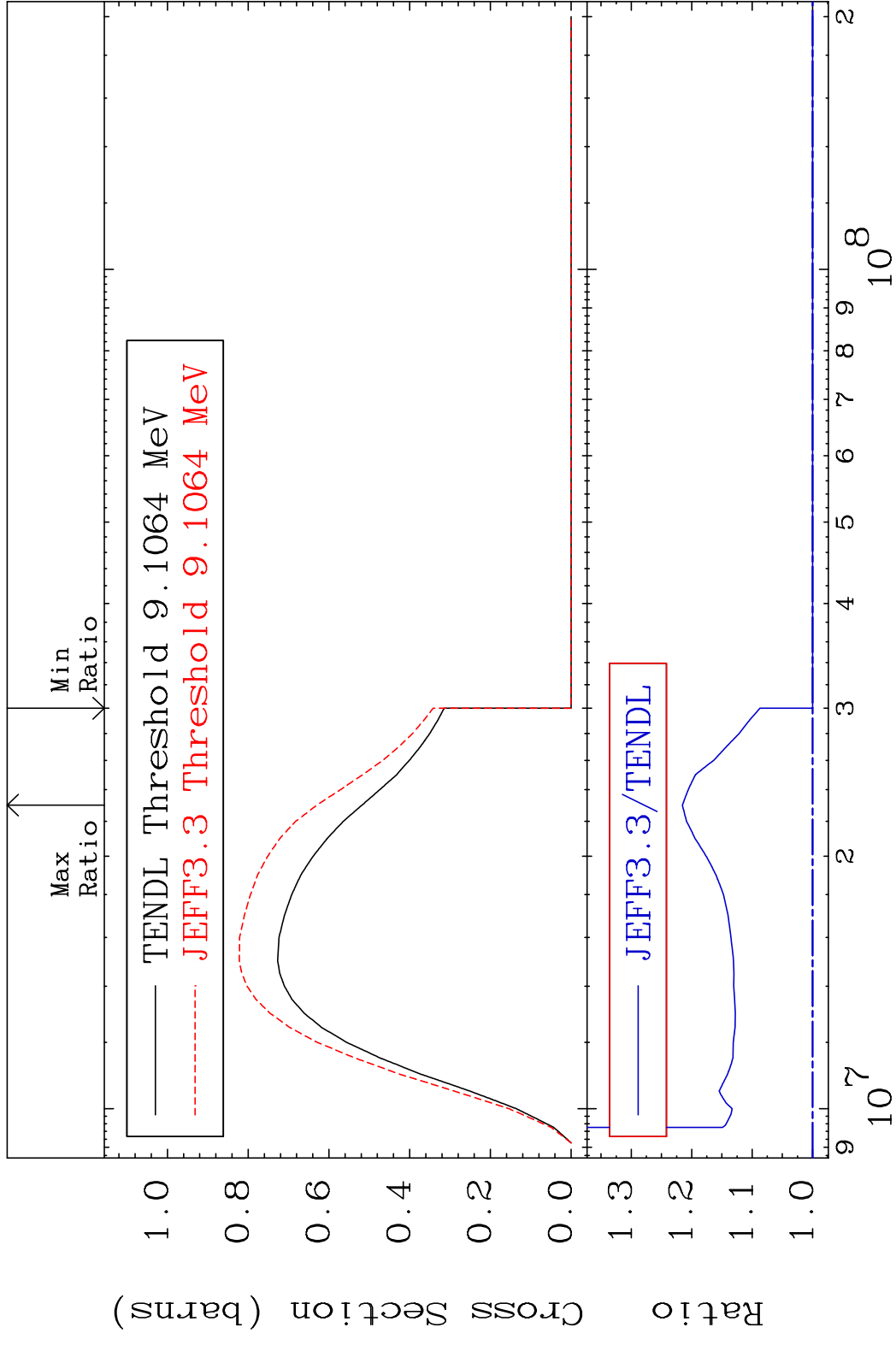


MAT 2522

(n,2n)

25-Mn-54

Cross Section 0.000 To 21.55 %

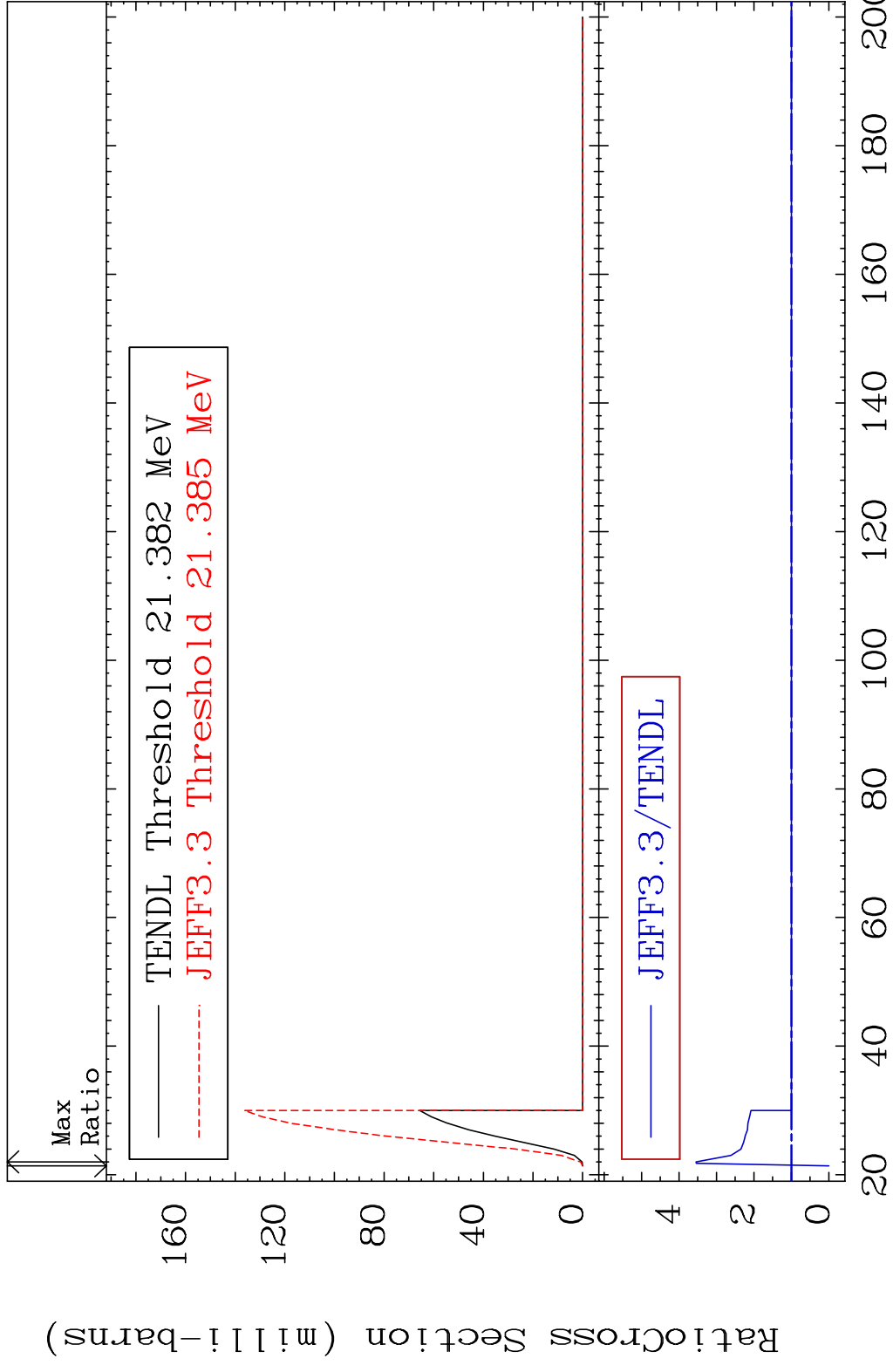


25-Mn-54

Incident Energy (eV)

5

MAT 2522 (n,3n) 25-Mn-54
 Cross Section -100.0 To 254.7 %

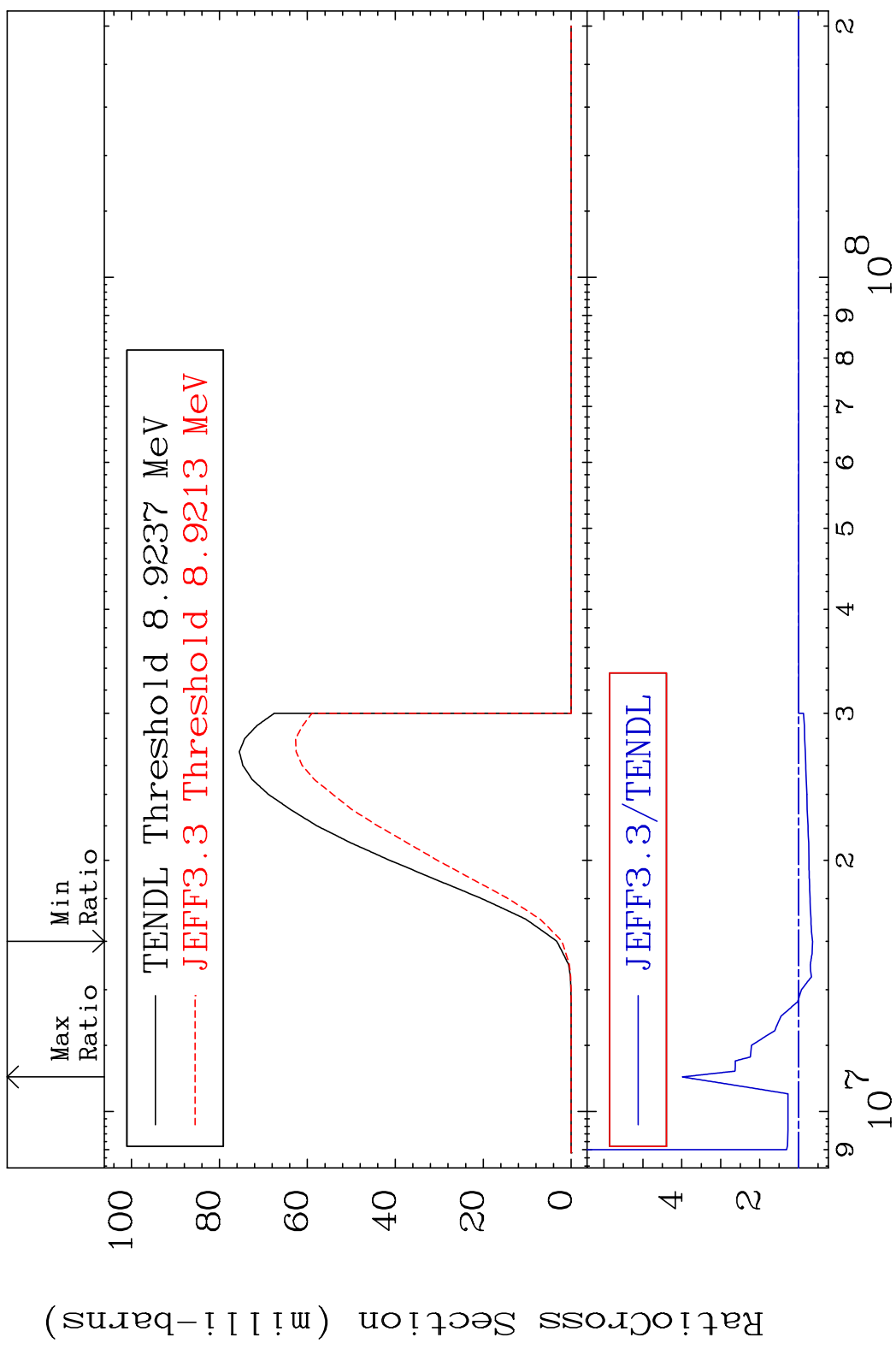


MAT 2522

(n, n') α

25-Mn-54

Cross Section -35.76 To 298.6 %

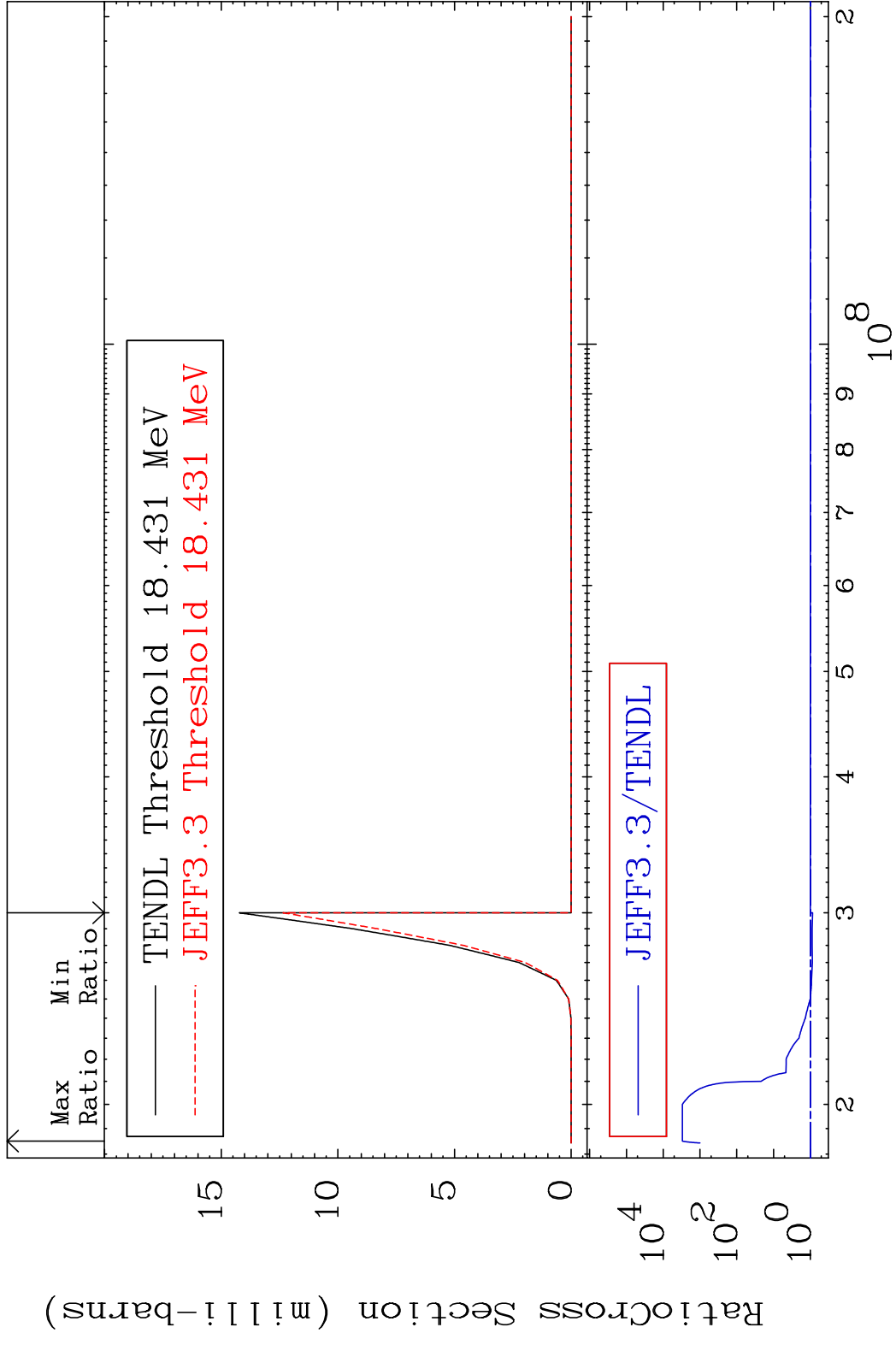


7

Incident Energy (eV)

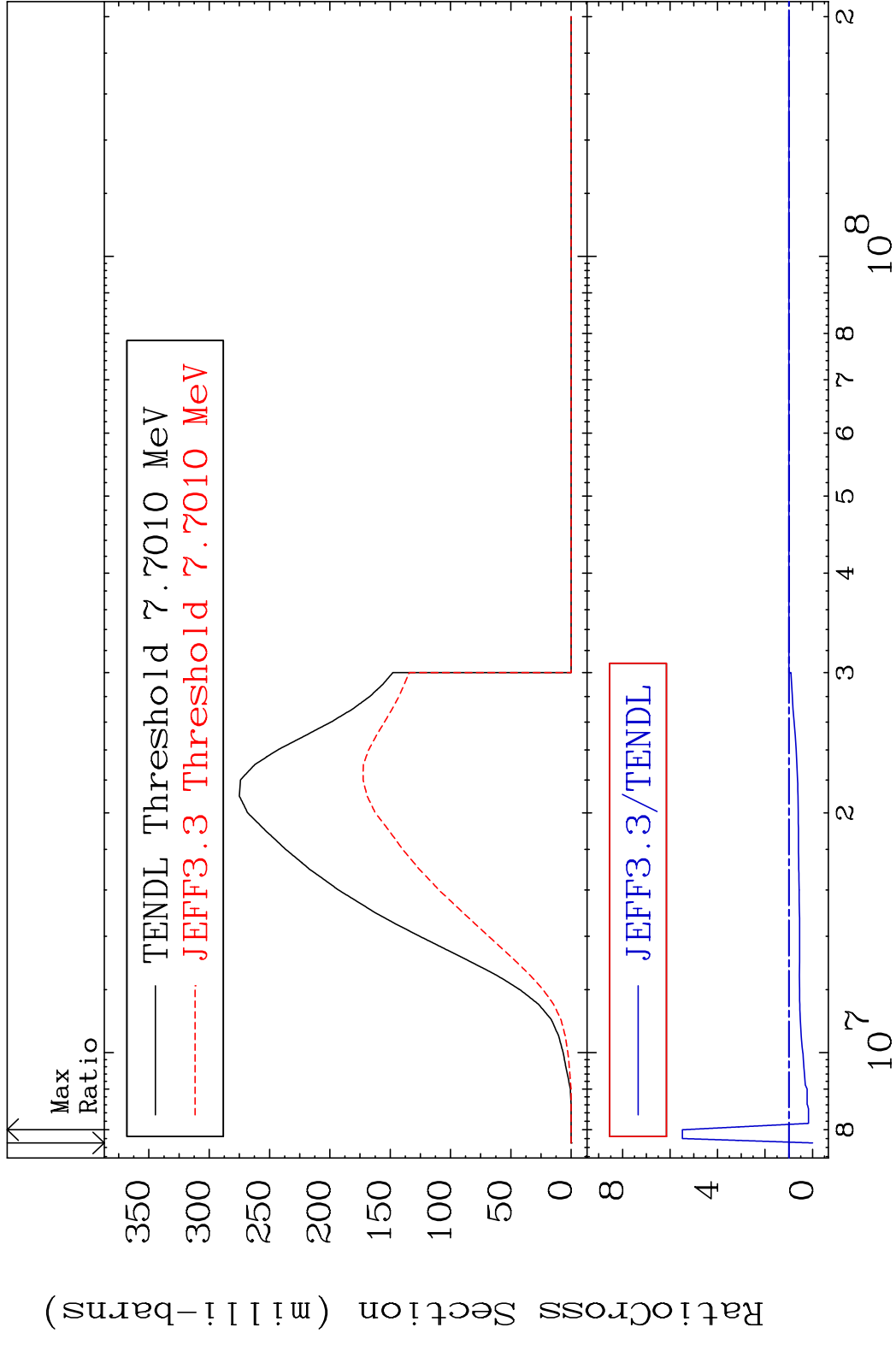
25-Mn-54

MAT 2522 (n,2n) α 25-Mn-54
 Cross Section -13.18 To 9999. %



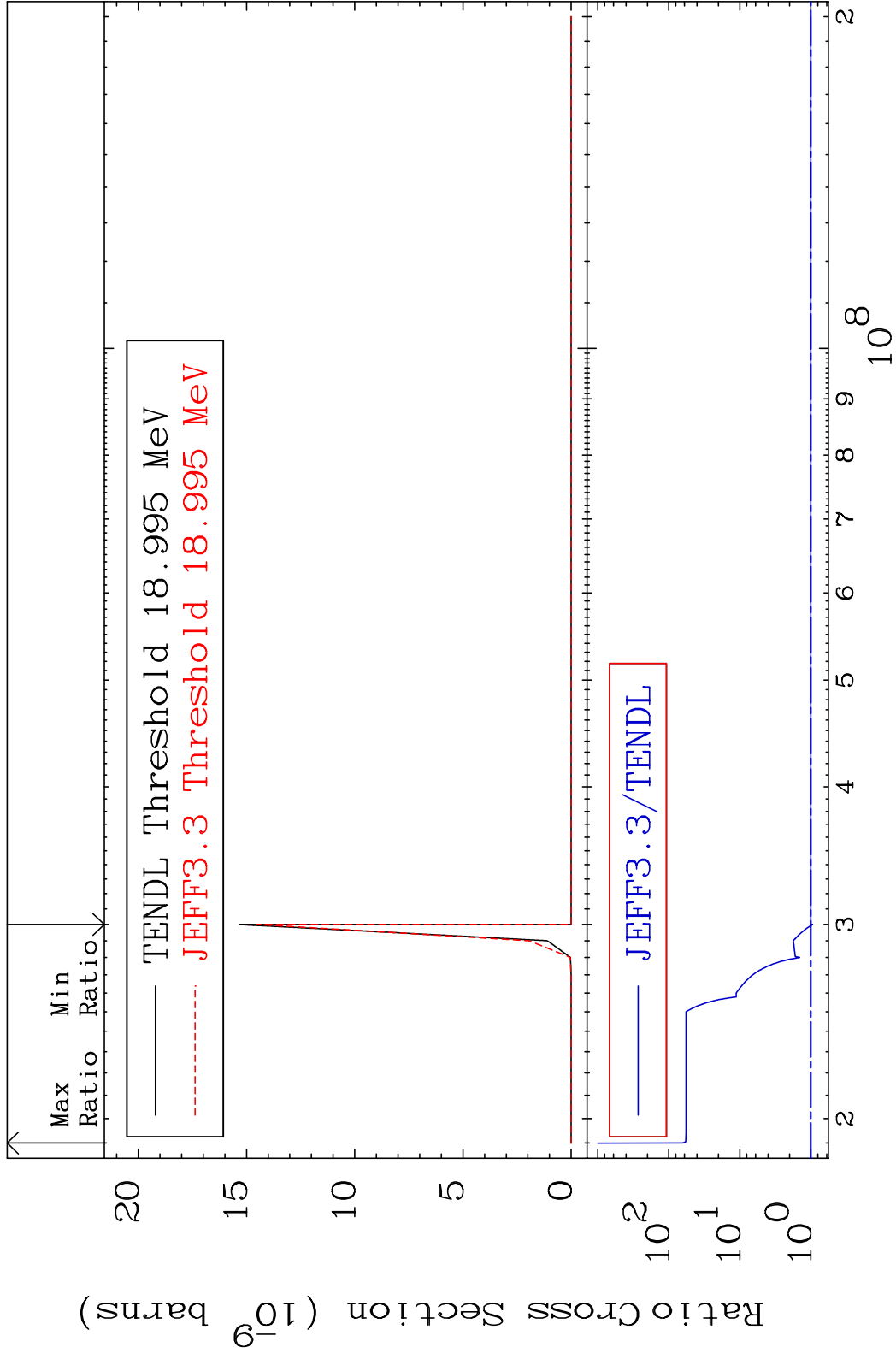
8 25-Mn-54

MAT 2522 (n, n') p 25-Mn-54
 Cross Section -100.0 To 448.2 %



9 25-Mn-54

MAT 2522 (n, n') 2α 25-Mn-54
 Cross Section -5.300 To 6341. %



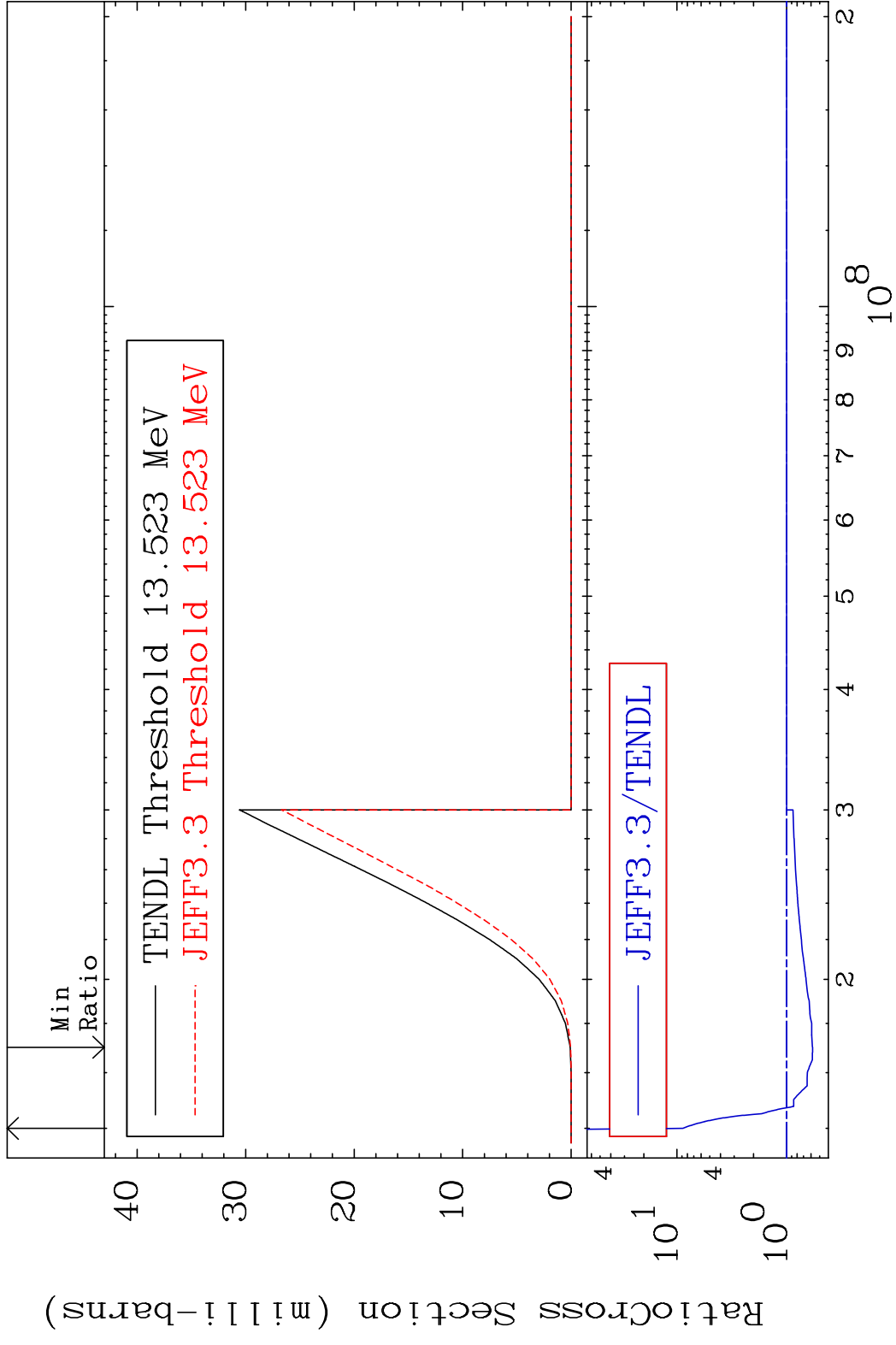
10 Incident Energy (eV) 25-Mn-54

MAT 2522

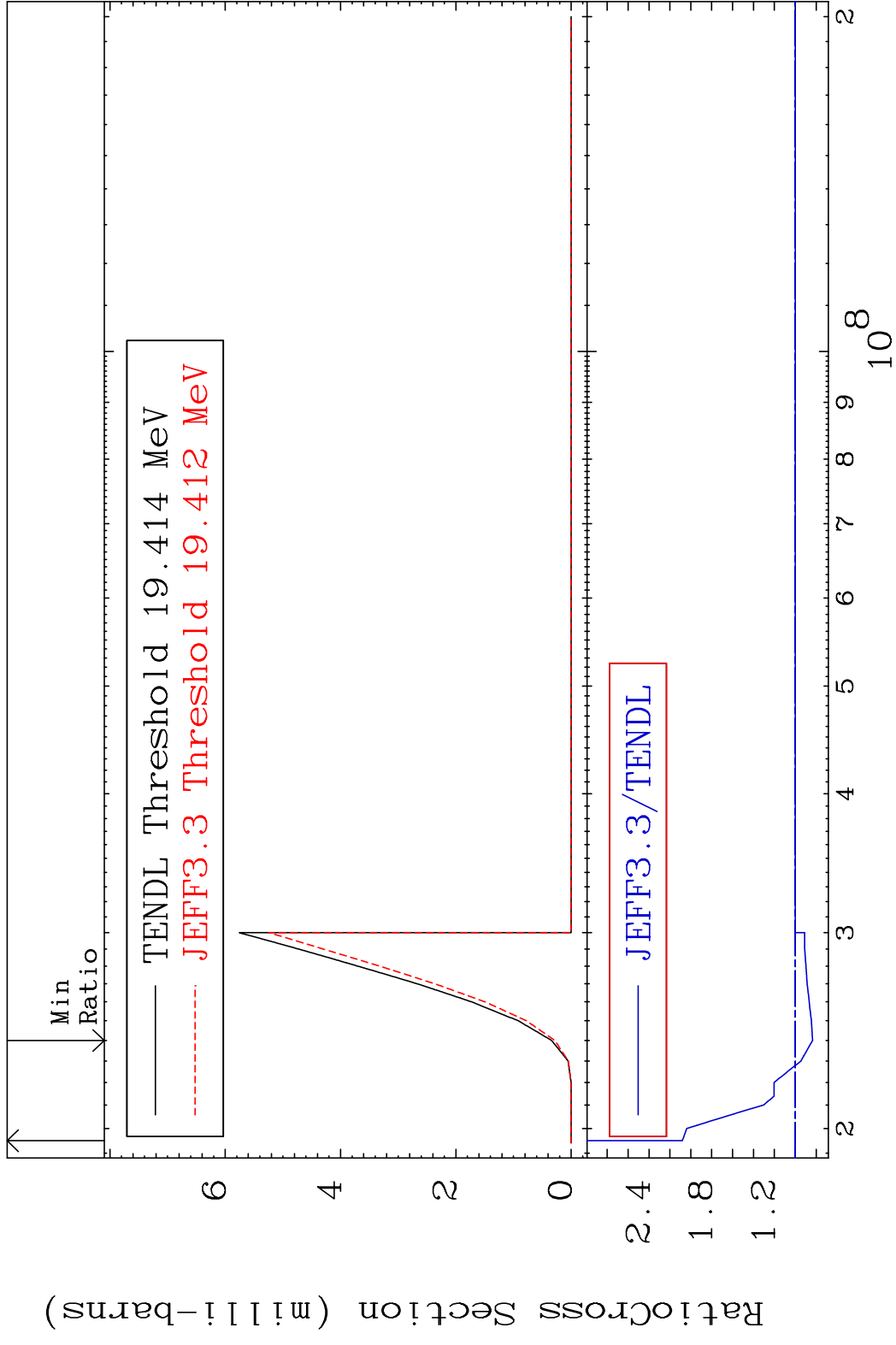
(n, n') d

25-Mn-54

Cross Section -42.02 To 790.1 %



MAT 2522 (n, n') t 25-Mn-54
 Cross Section -16.55 To 108.1 %

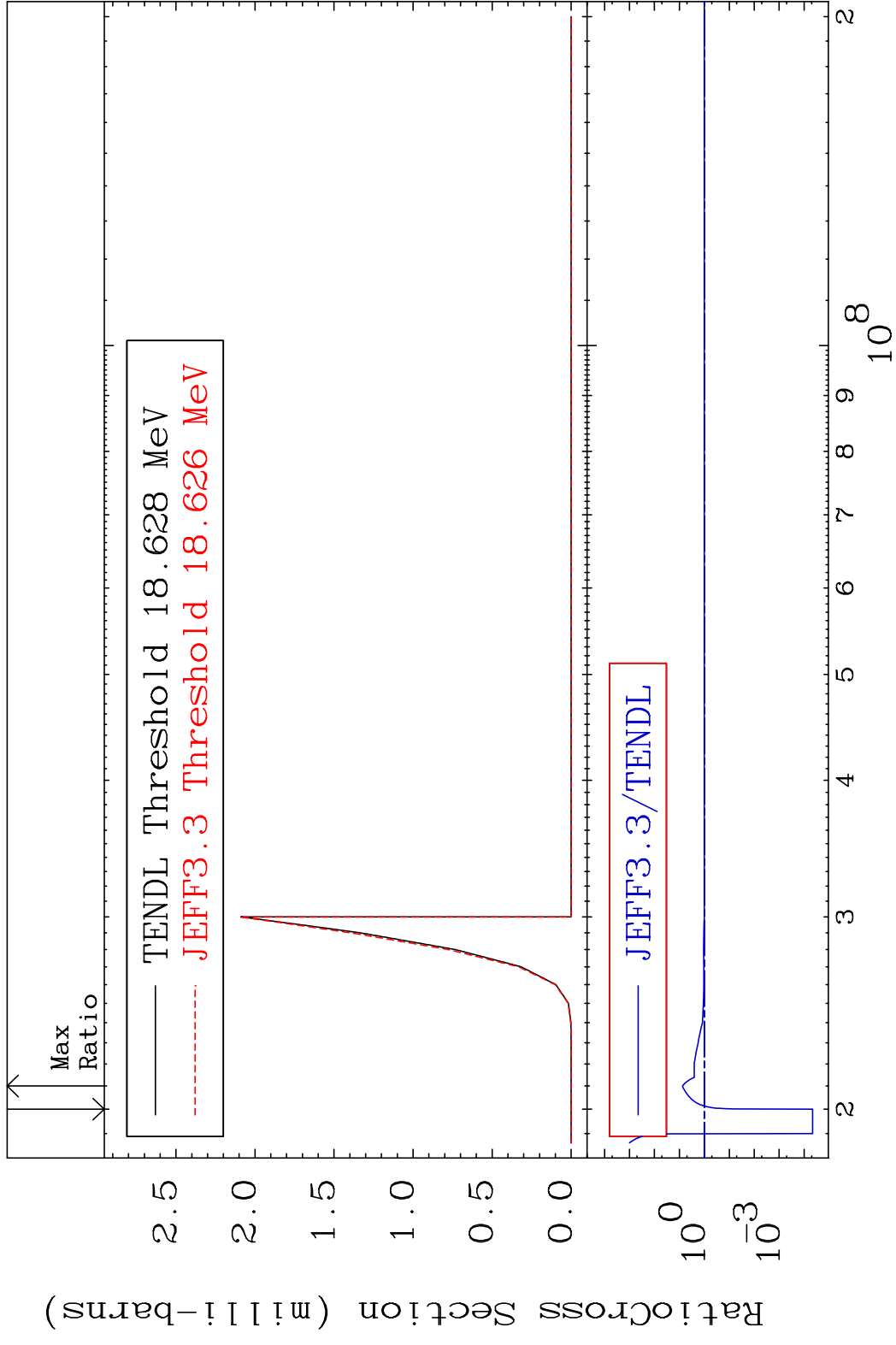


MAT 2522

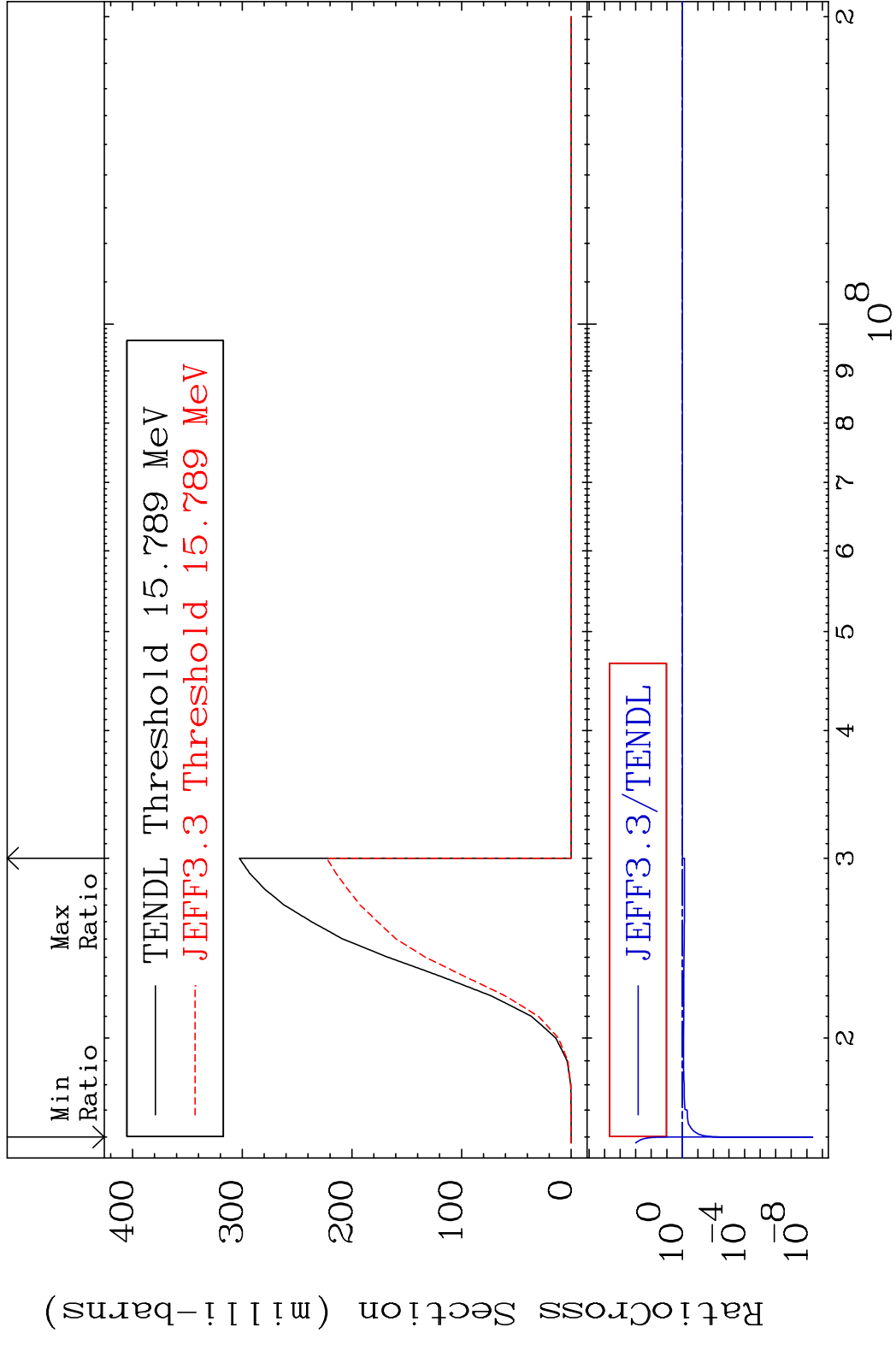
(n,n') He-3

25-Mn-54

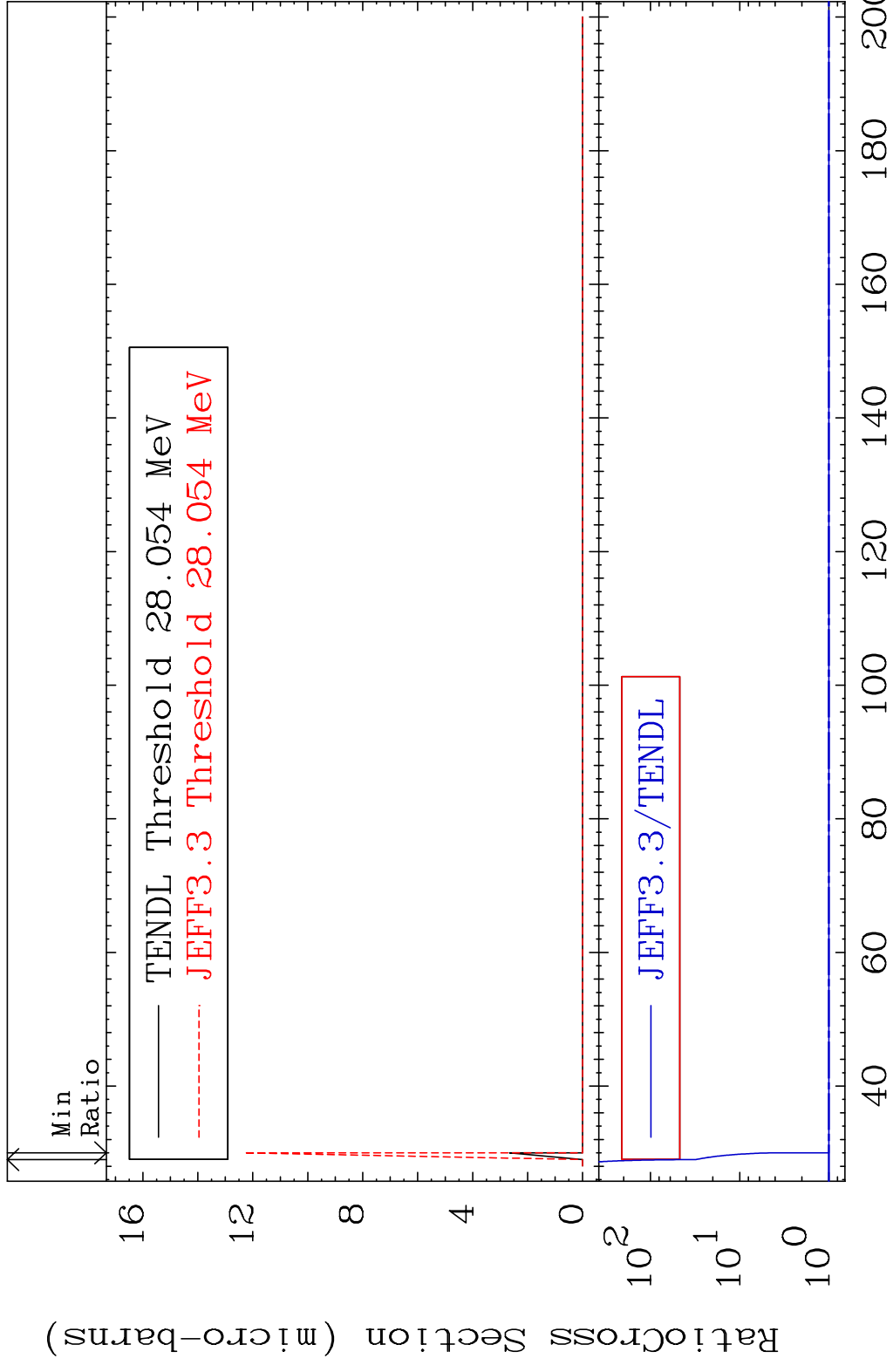
Cross Section -100.0 To 660.0 %



MAT 2522 (n,2n) p 25-Mn-54
 Cross Section -100.0 To 0.000 %



MAT 2522 (n,3n) p 25-Mn-54
 Cross Section 0.000 To 2988. %

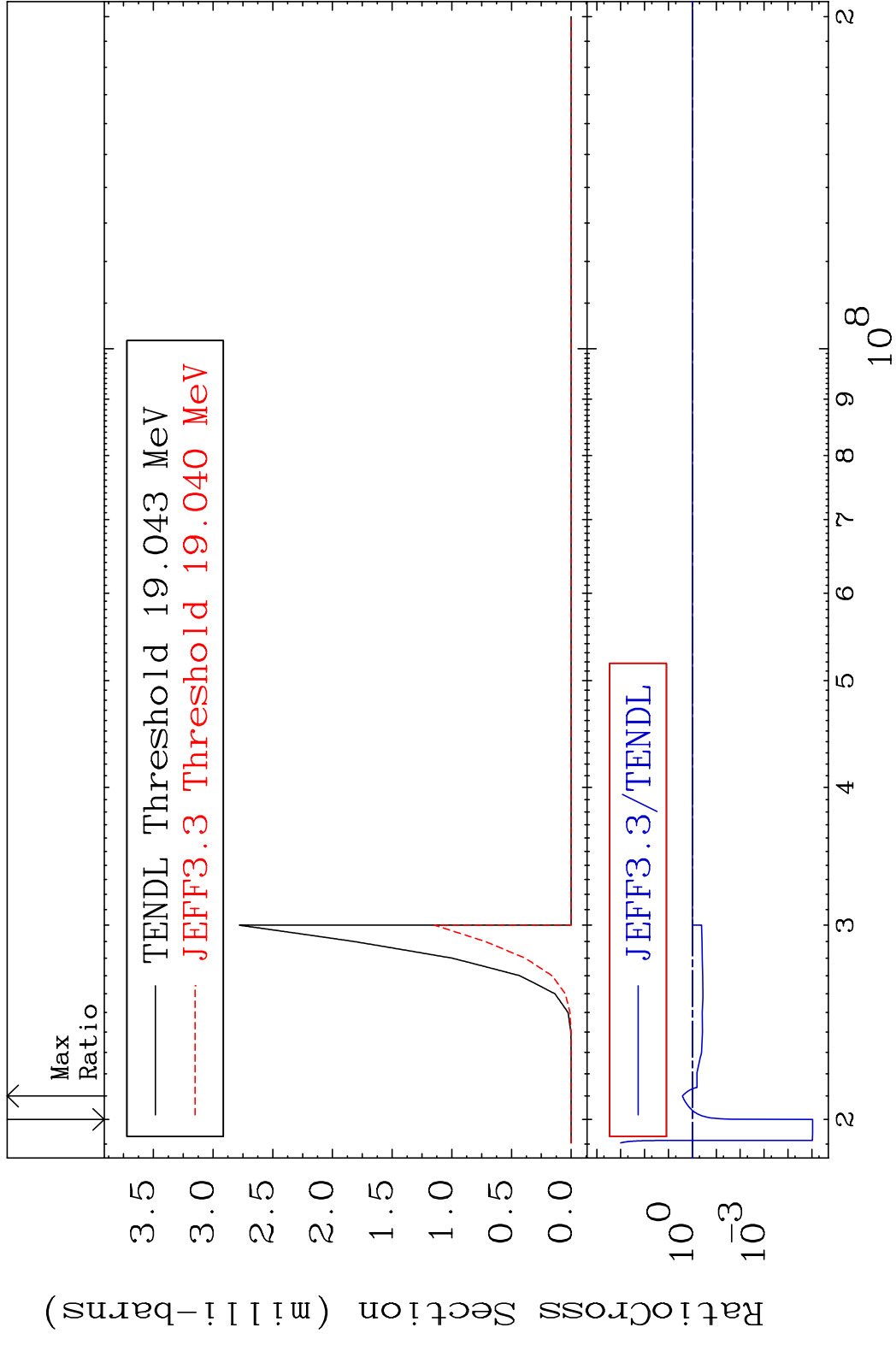


MAT 2522

(n,2n) p

²⁵Mn-54

Cross Section -100.0 To 162.4 %

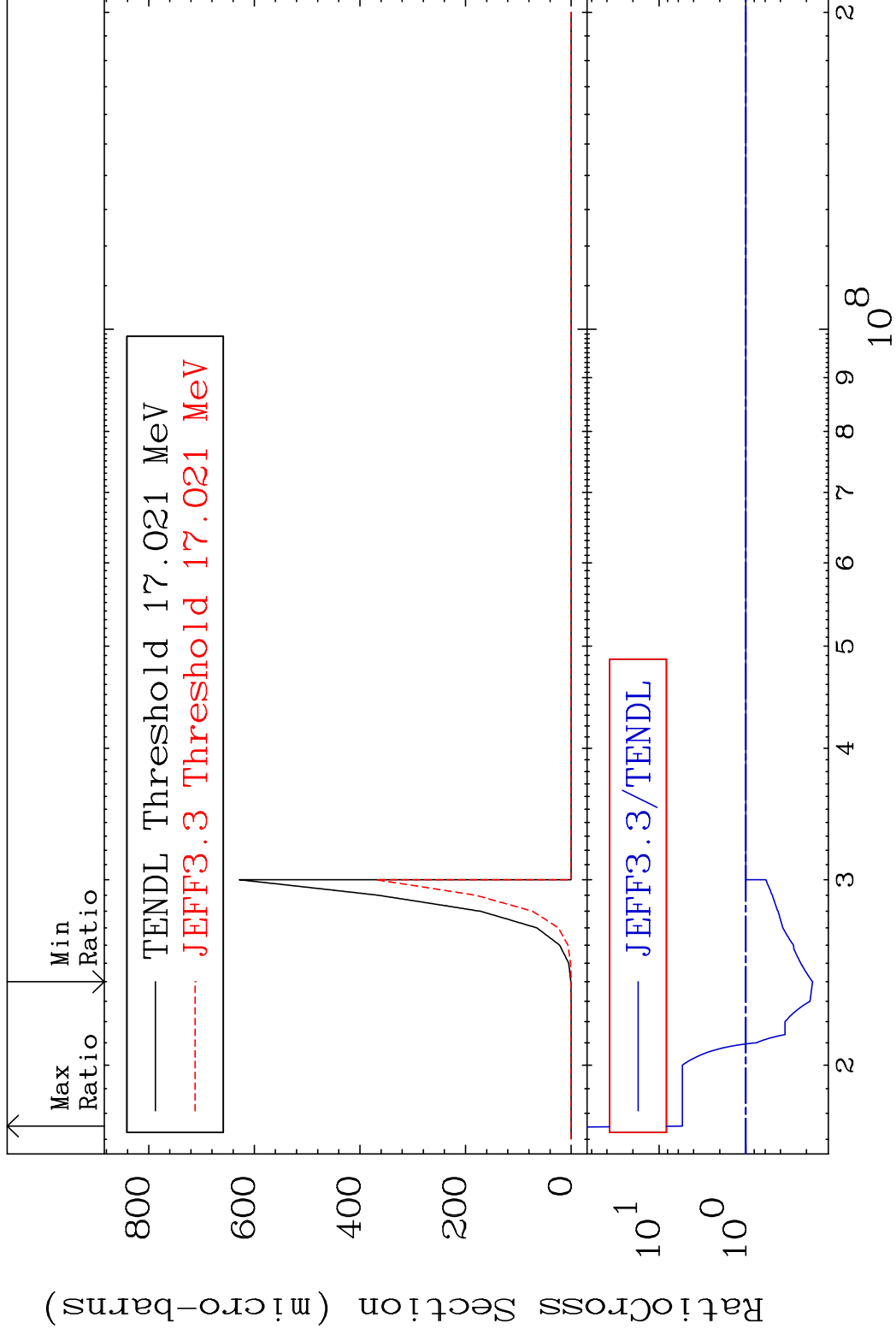


MAT 2522

(n,n') p α

25-Mn-54

Cross Section -82.96 To 439.4 %

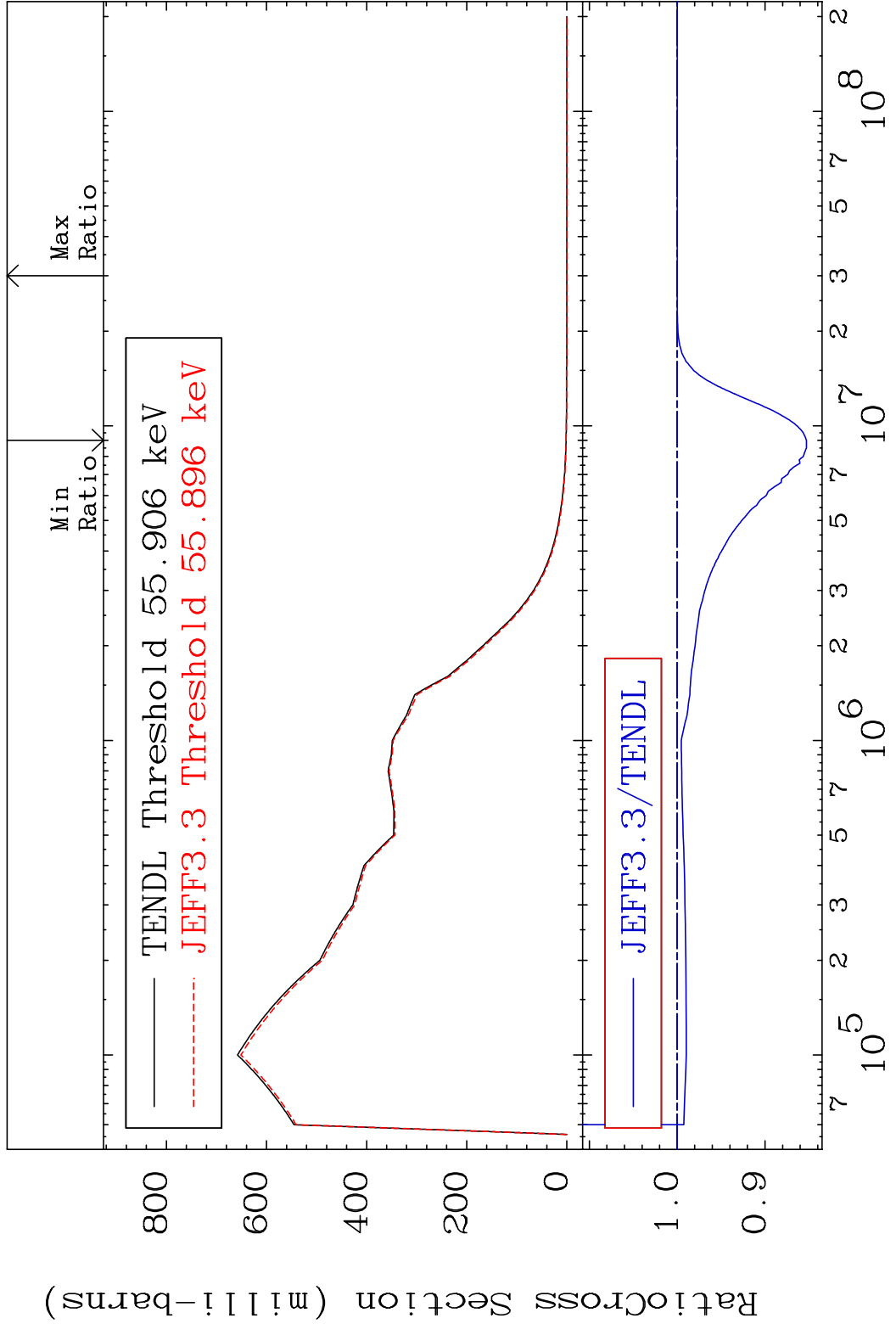


17

Incident Energy (eV)

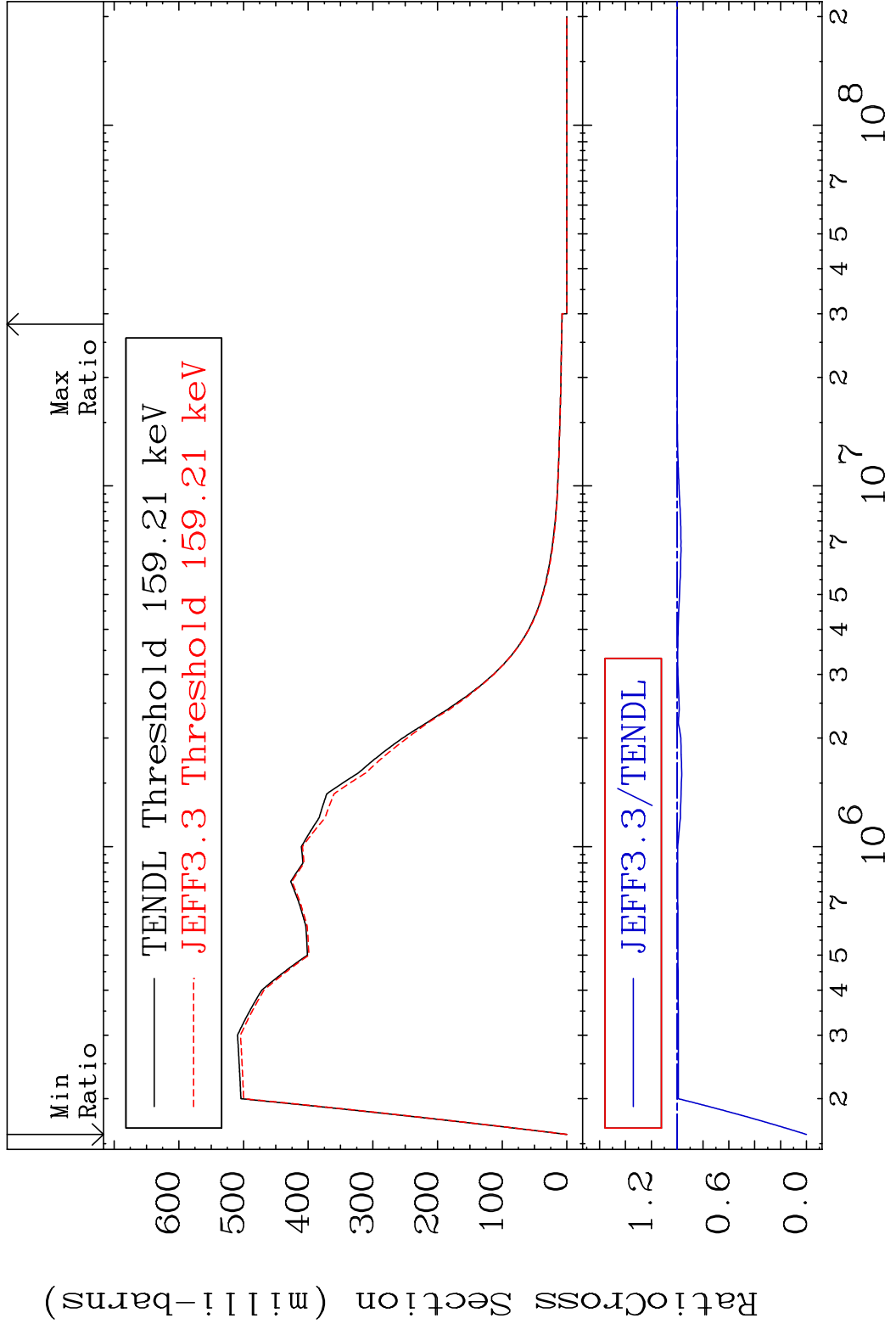
25-Mn-54

MAT 2522 MT= 51 (n, n') Level 25-Mn-54
 Cross Section -14.70 To 0.000 %

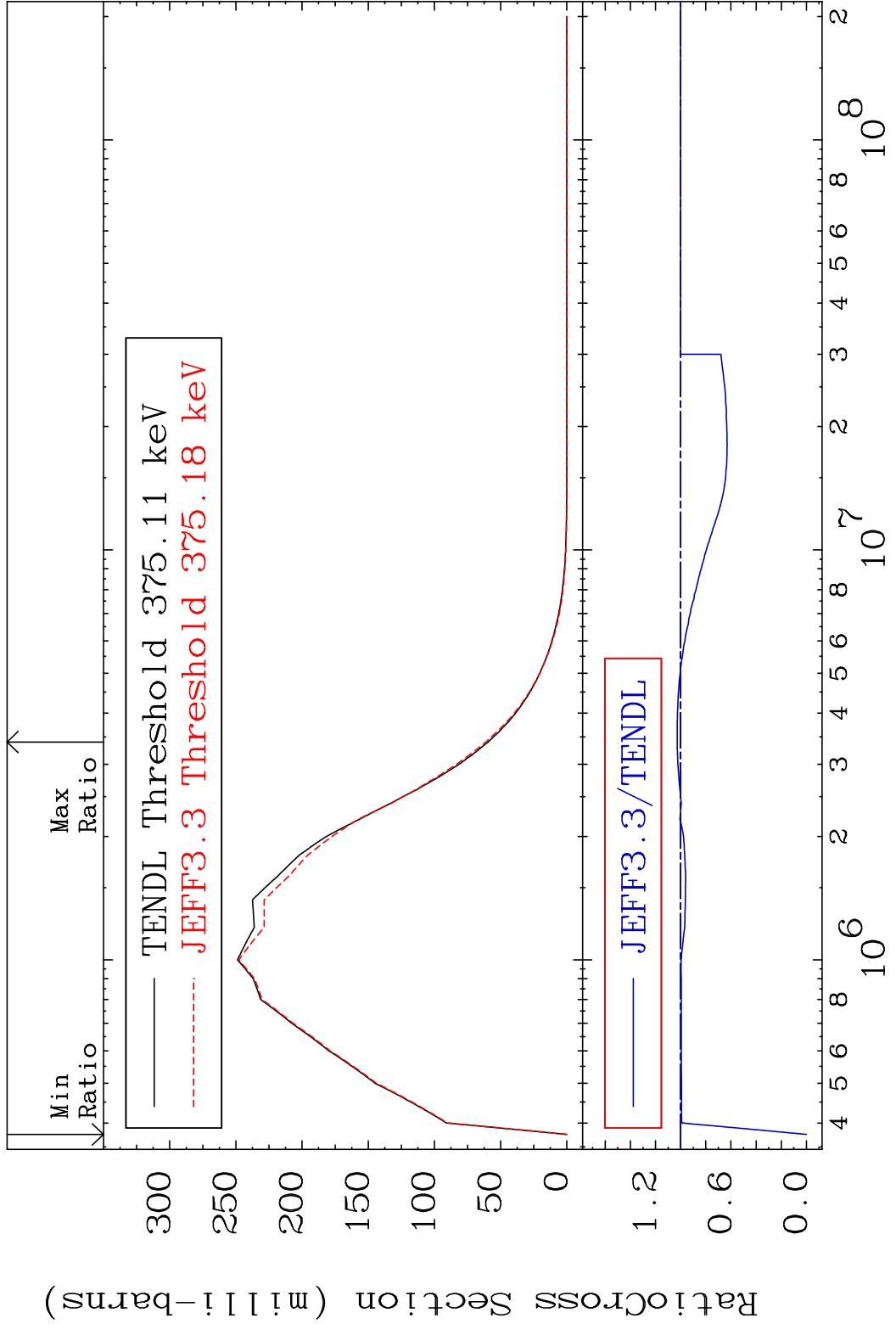


18 Incident Energy (eV) 25-Mn-54

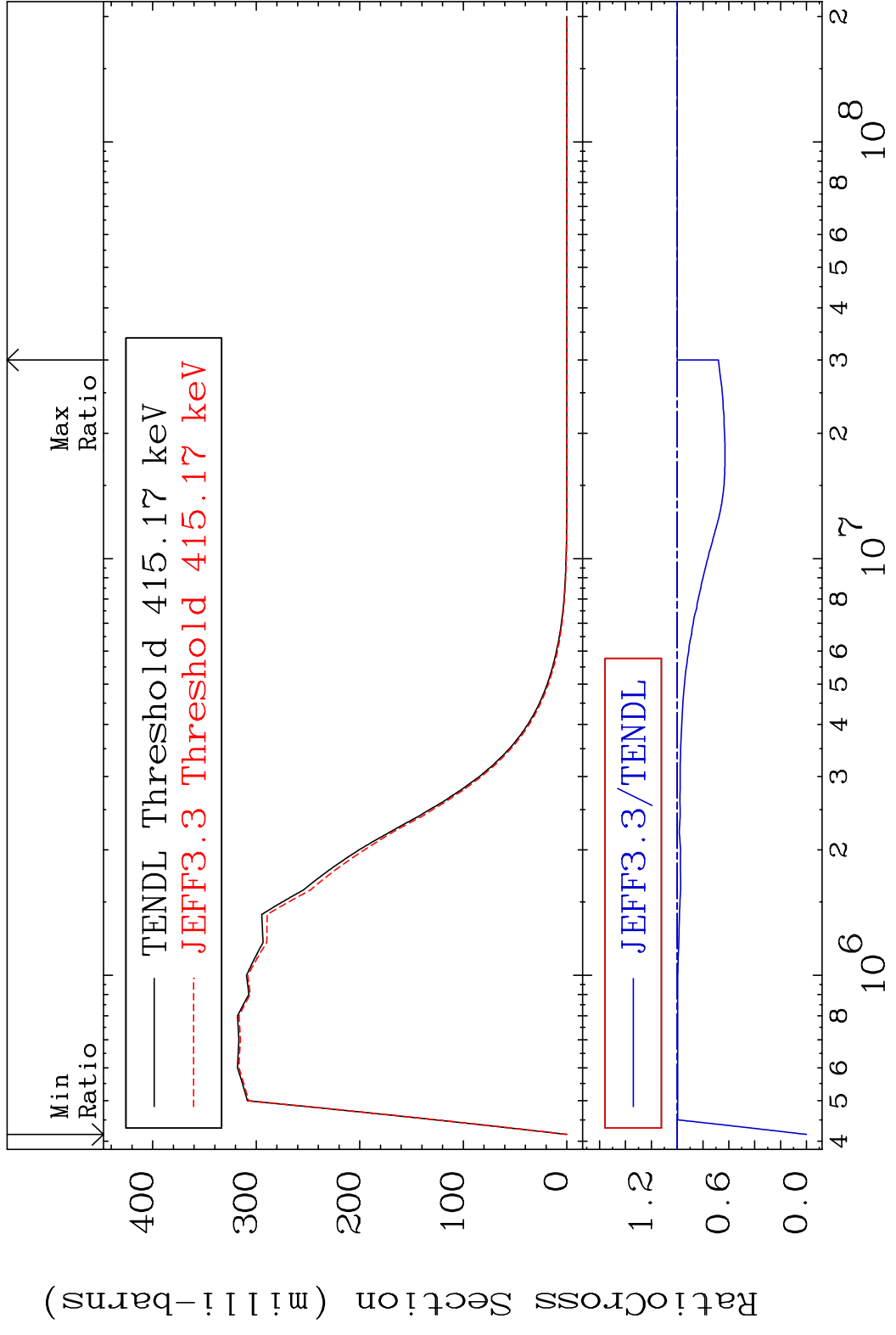
MAT 2522 MT= 52 (n, n') Level 25-Mn-54
 Cross Section -100.0 To 0.000 %



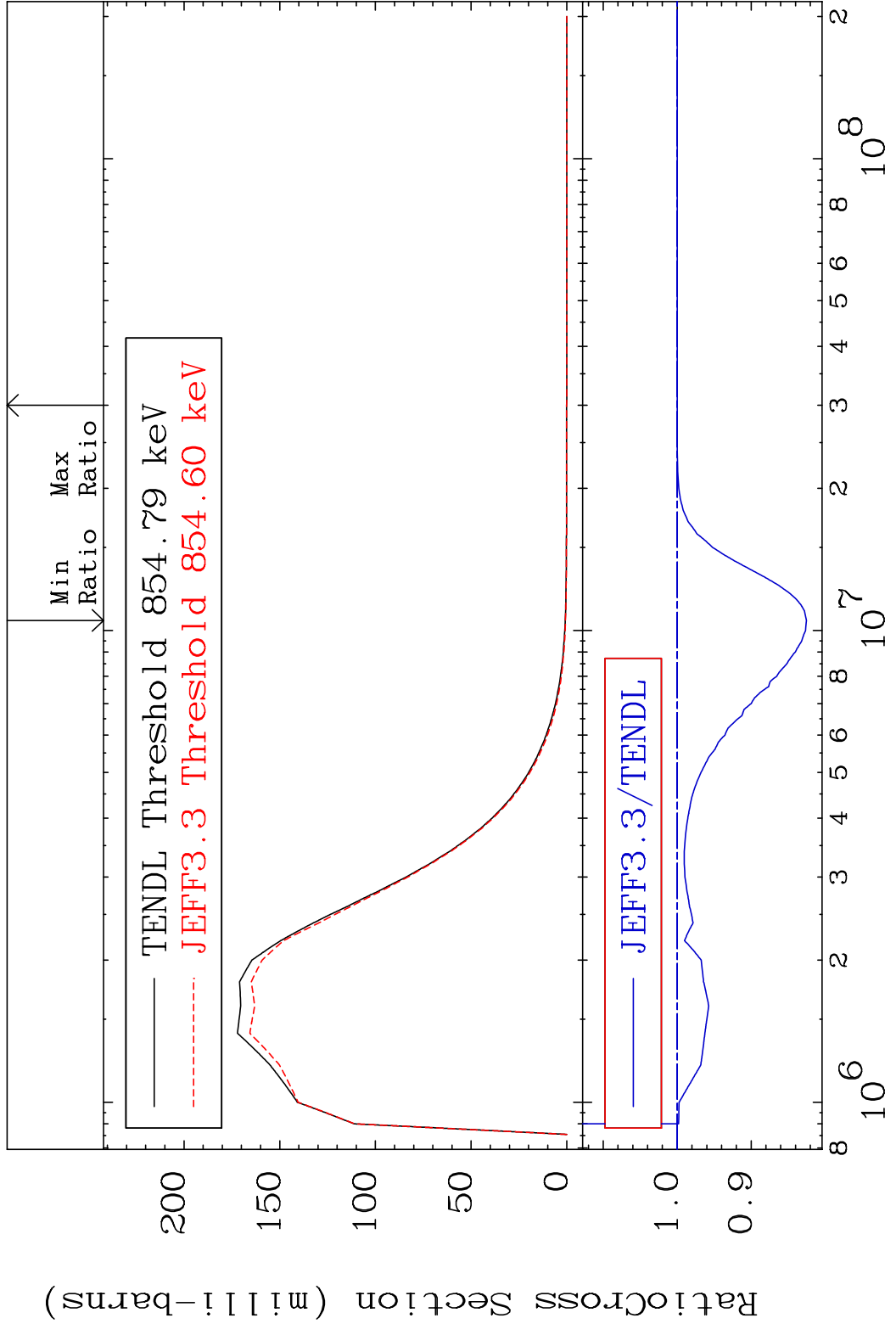
MAT 2522 MT= 53 (n, n') Level 25-Mn-54
 Cross Section -100.0 To 2.769 %



MAT 2522 MT= 54 (n, n') Level 25-Mn-54
 Cross Section -100.0 To 0.000 %

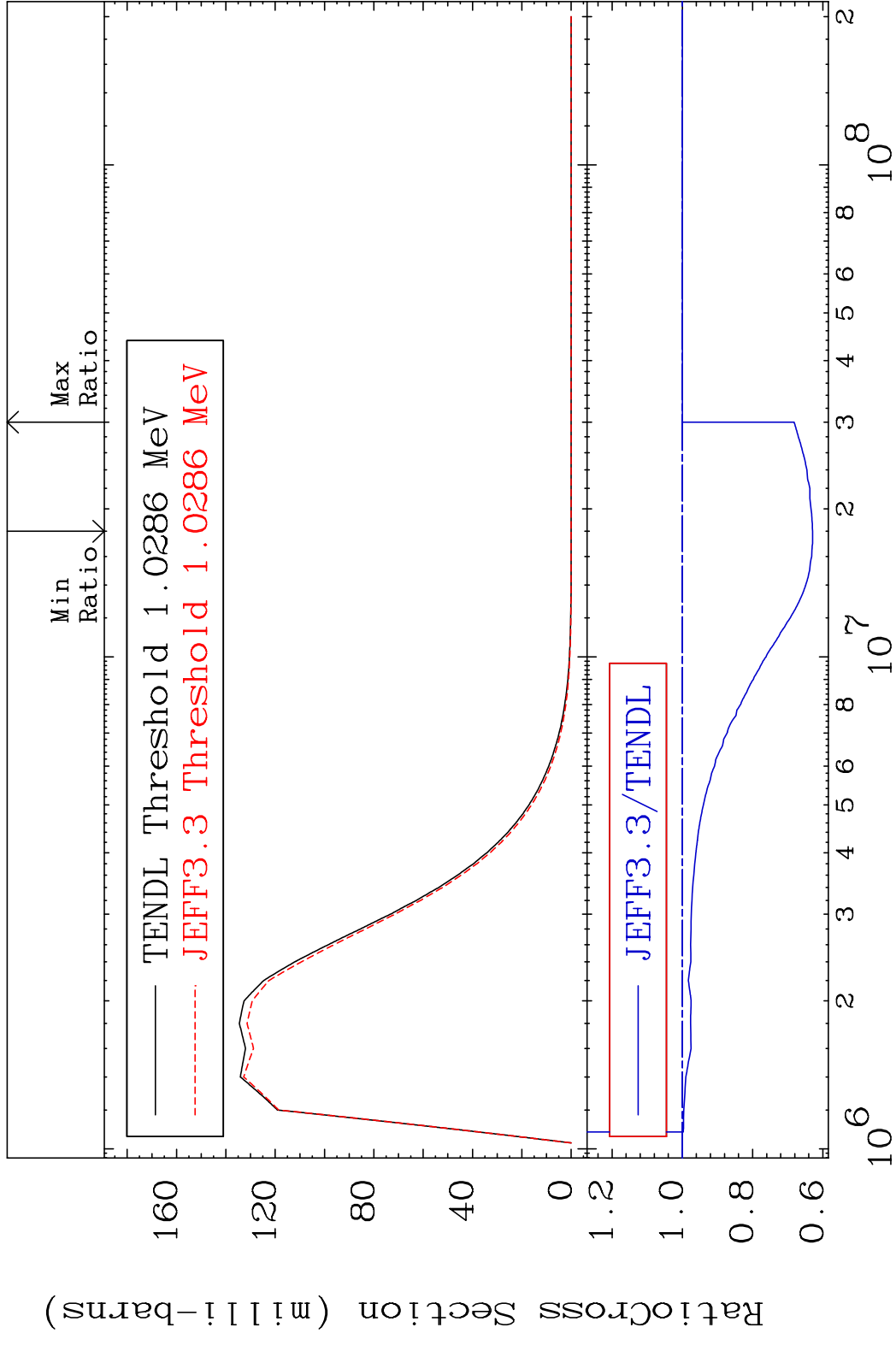


MAT 2522 MT= 55 (n, n') Level 25-Mn-54
 Cross Section -17.47 To 0.000 %



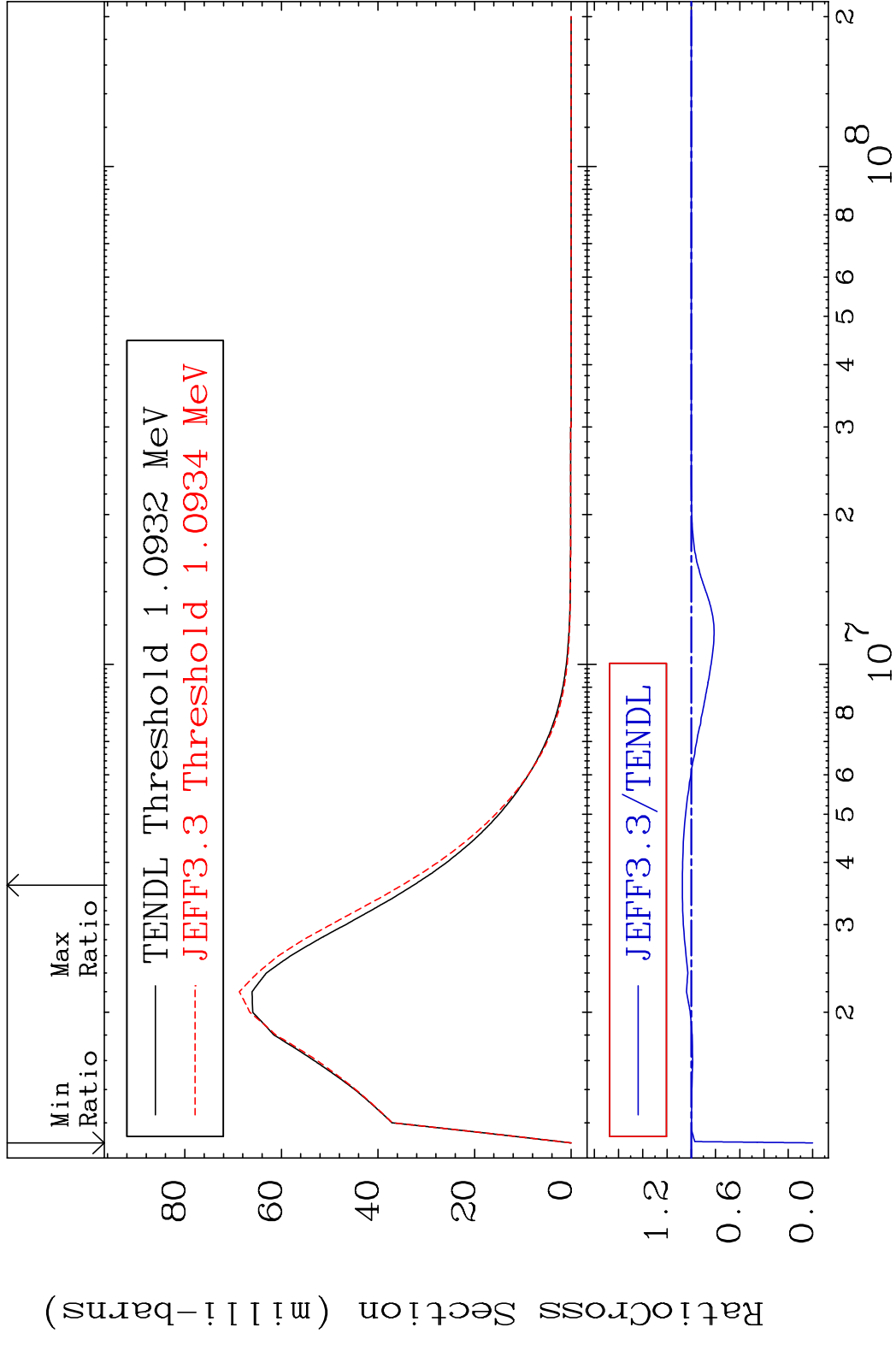
22 Incident Energy (eV) 25-Mn-54

MAT 2522 MT= 56 (n, n') Level 25-Mn-54
 Cross Section -37.06 To 0.000 %

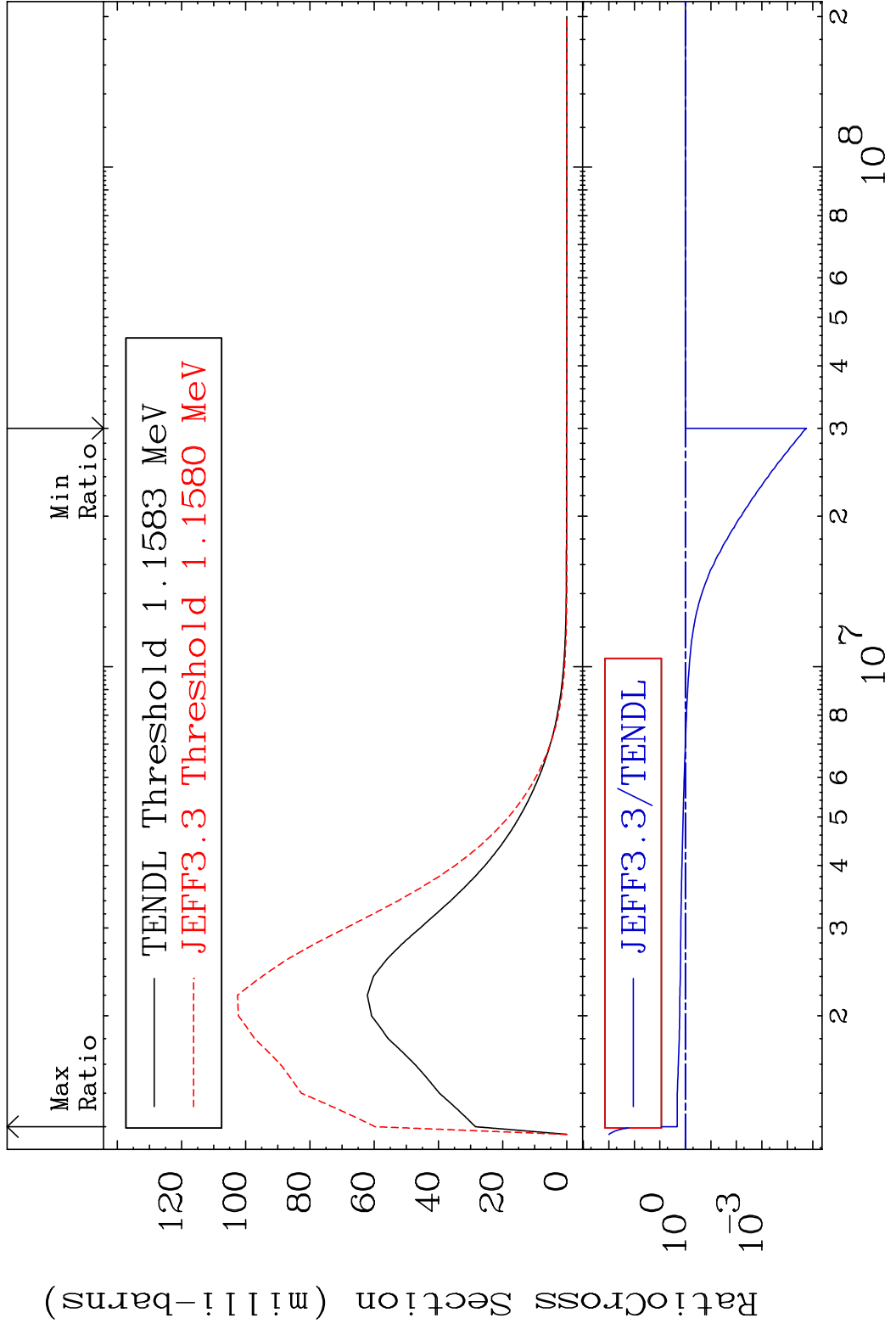


23 Incident Energy (eV) 25-Mn-54

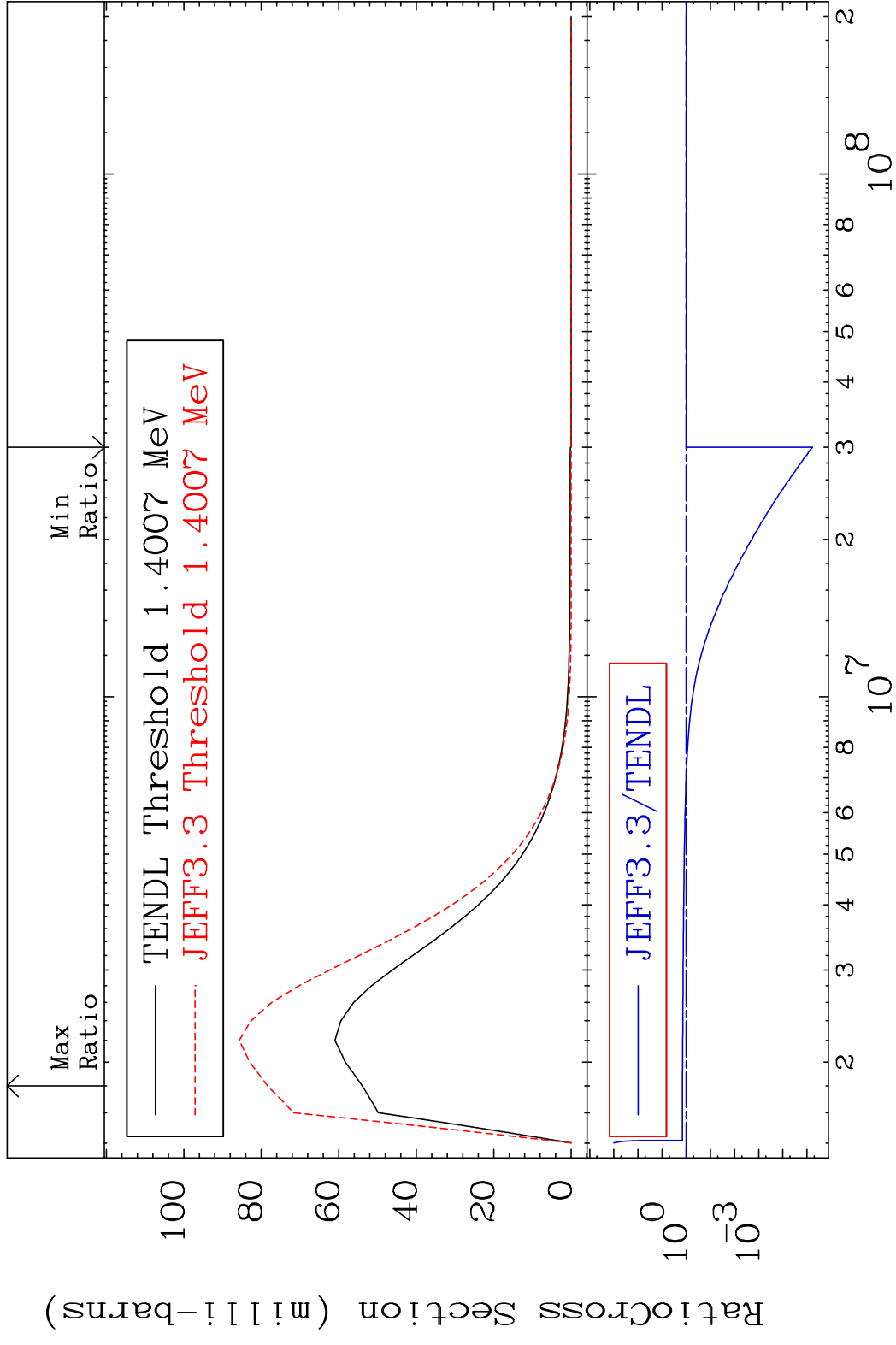
MAT 2522 MT= 57 (n, n') Level 25-Mn-54
 Cross Section -100.0 To 7.393 %



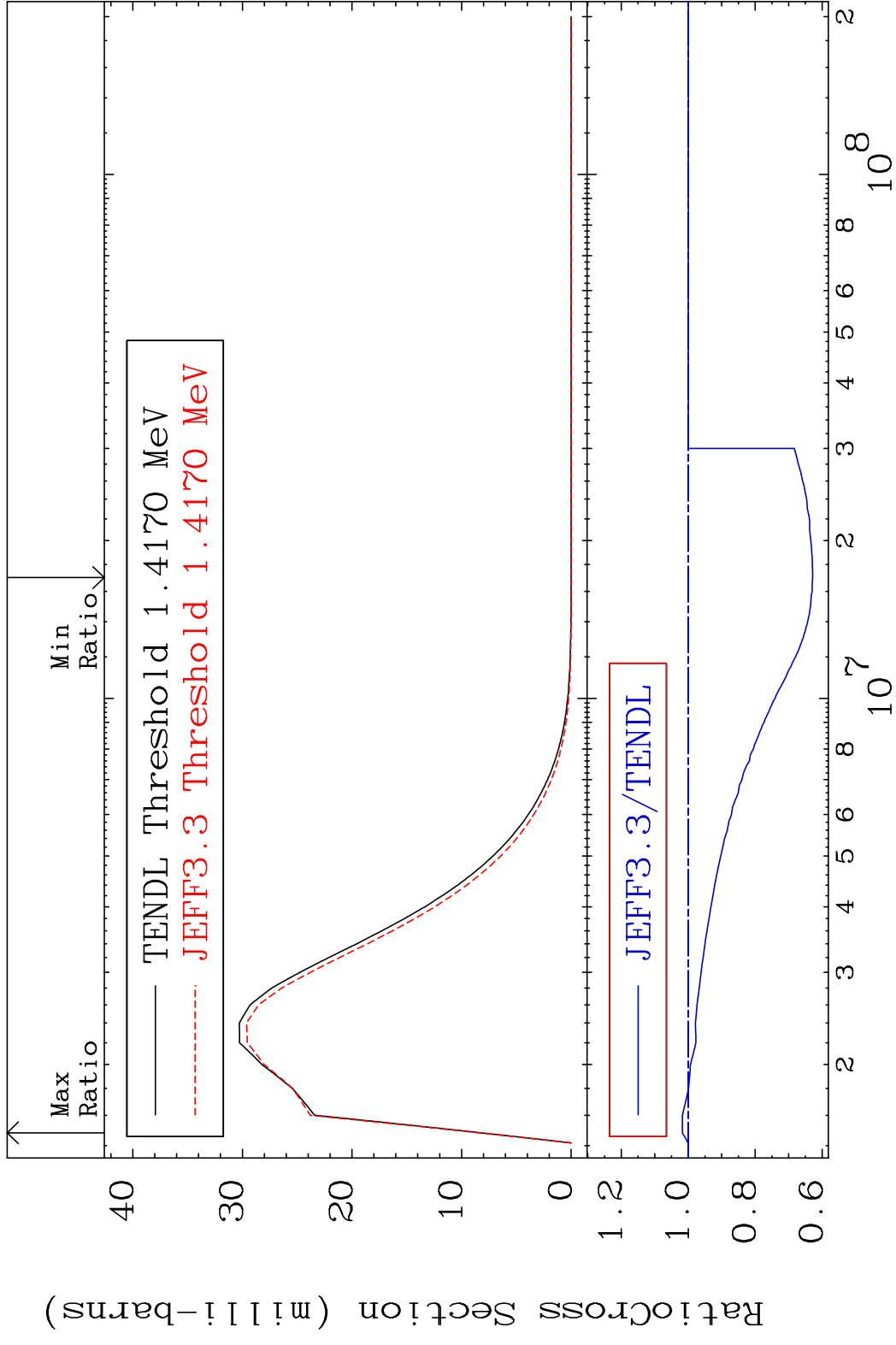
MAT 2522 MT= 58 (n, n') Level 25-Mn-54
 Cross Section -100.0 To 109.6 %



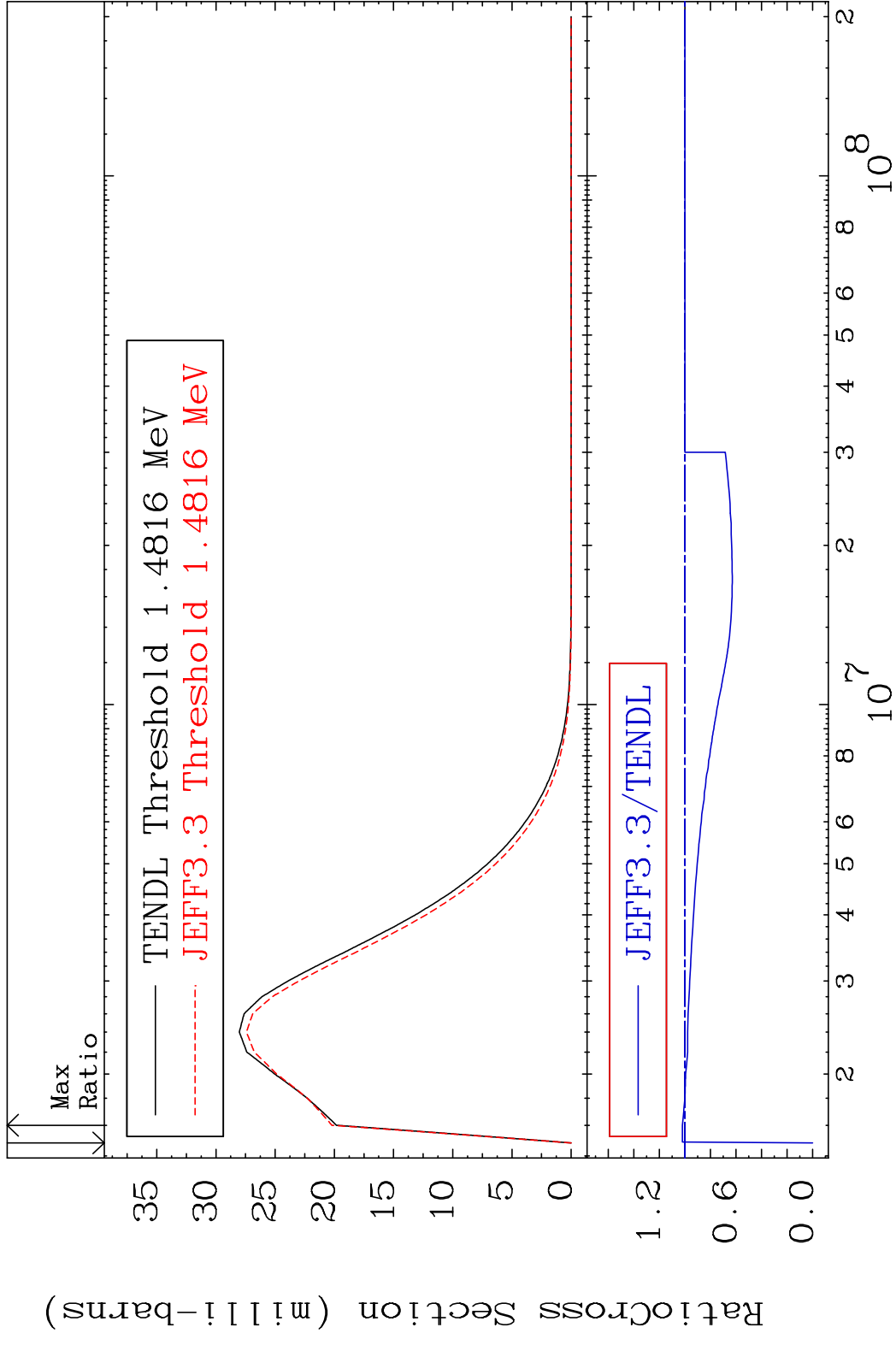
MAT 2522 MT= 59 (n,n') Level 25-Mn-54
 Cross Section -100.0 To 45.31 %



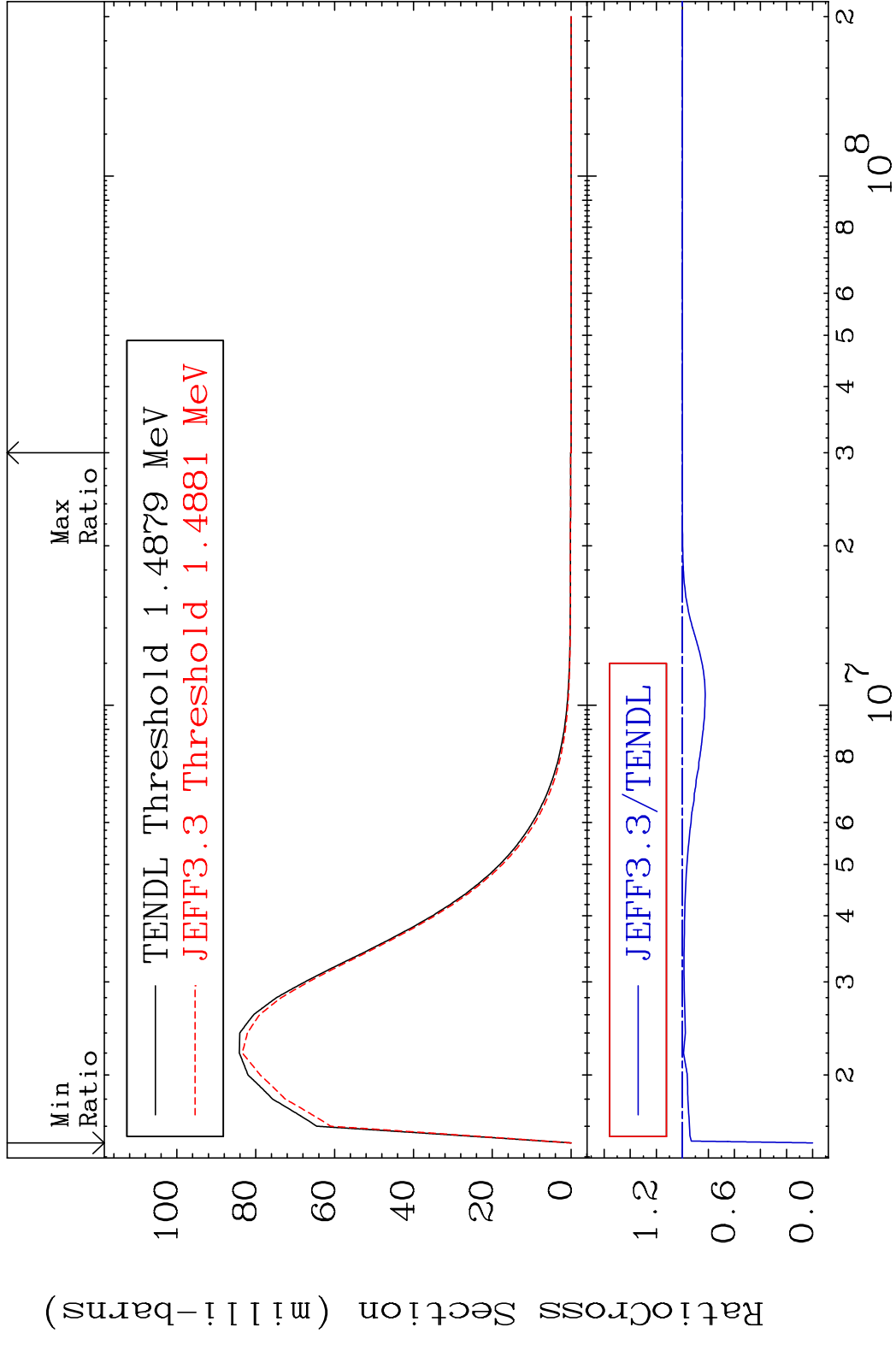
MAT 2522 MT= 60 (n, n') Level 25-Mn-54
 Cross Section -37.14 To 1.750 %



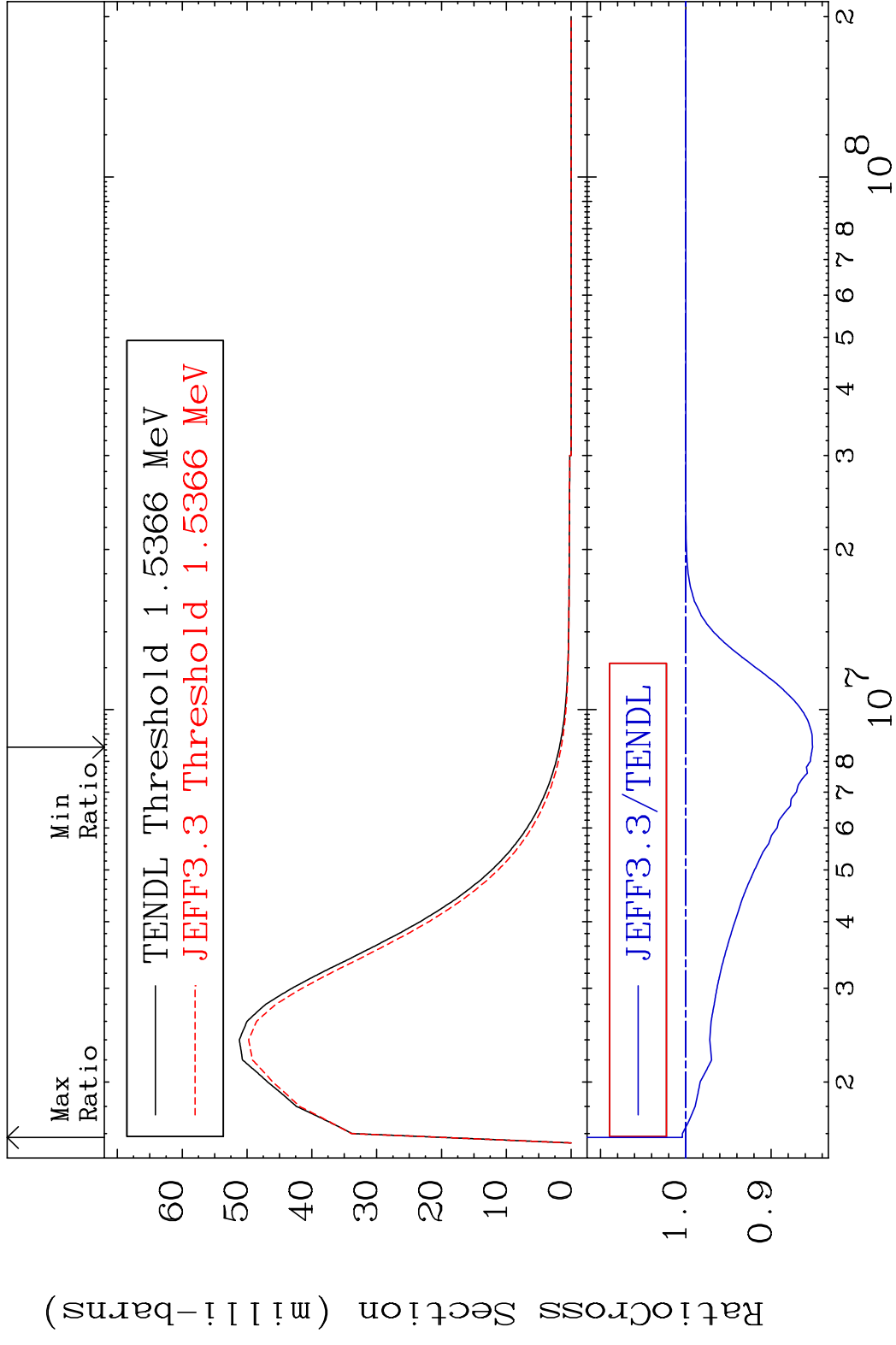
MAT 2522 MT= 61 (n, n') Level 25-Mn-54
 Cross Section -100.0 To 1.925 %



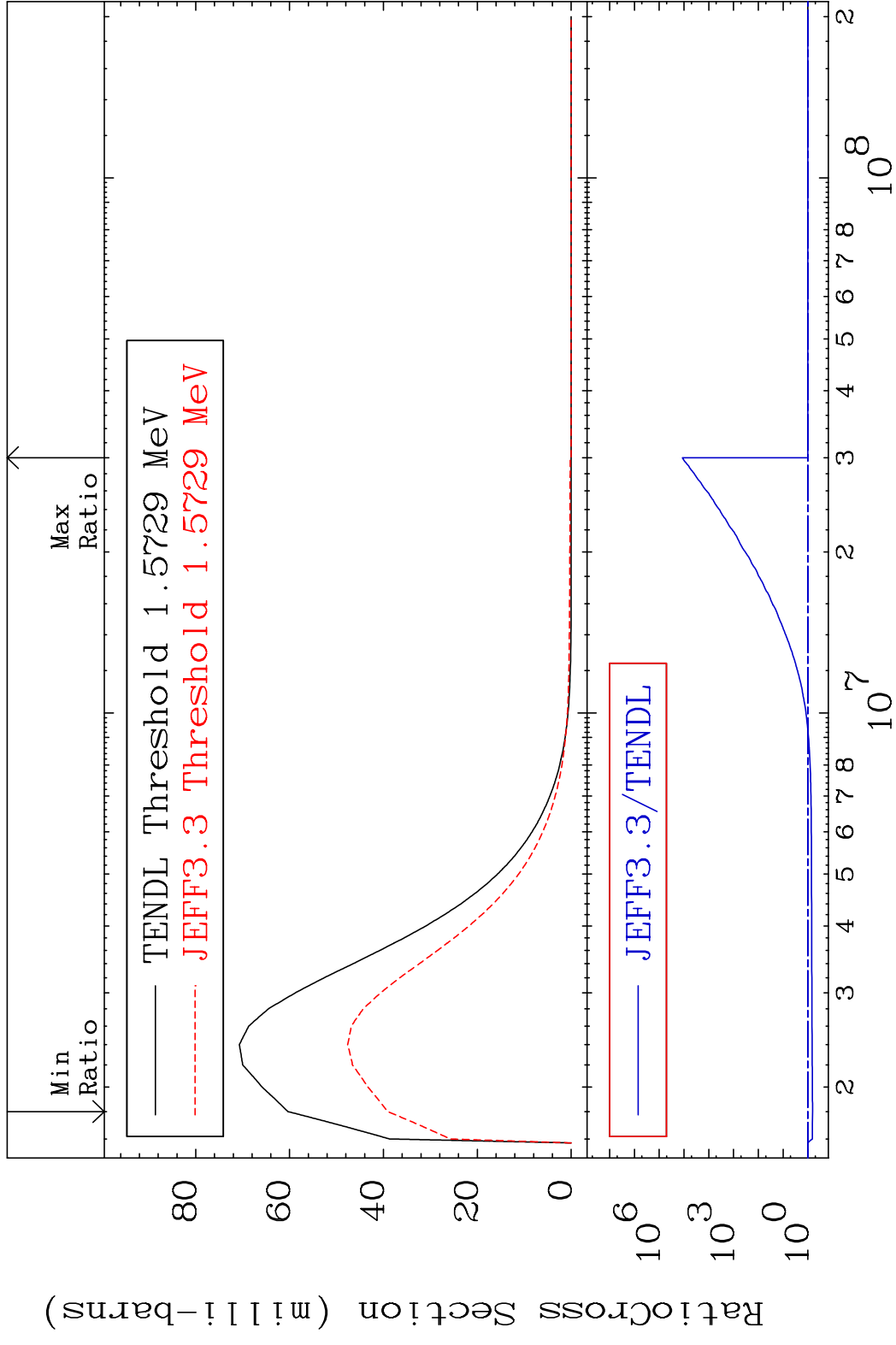
MAT 2522 MT= 62 (n, n') Level 25-Mn-54
 Cross Section -100.0 To 0.000 %



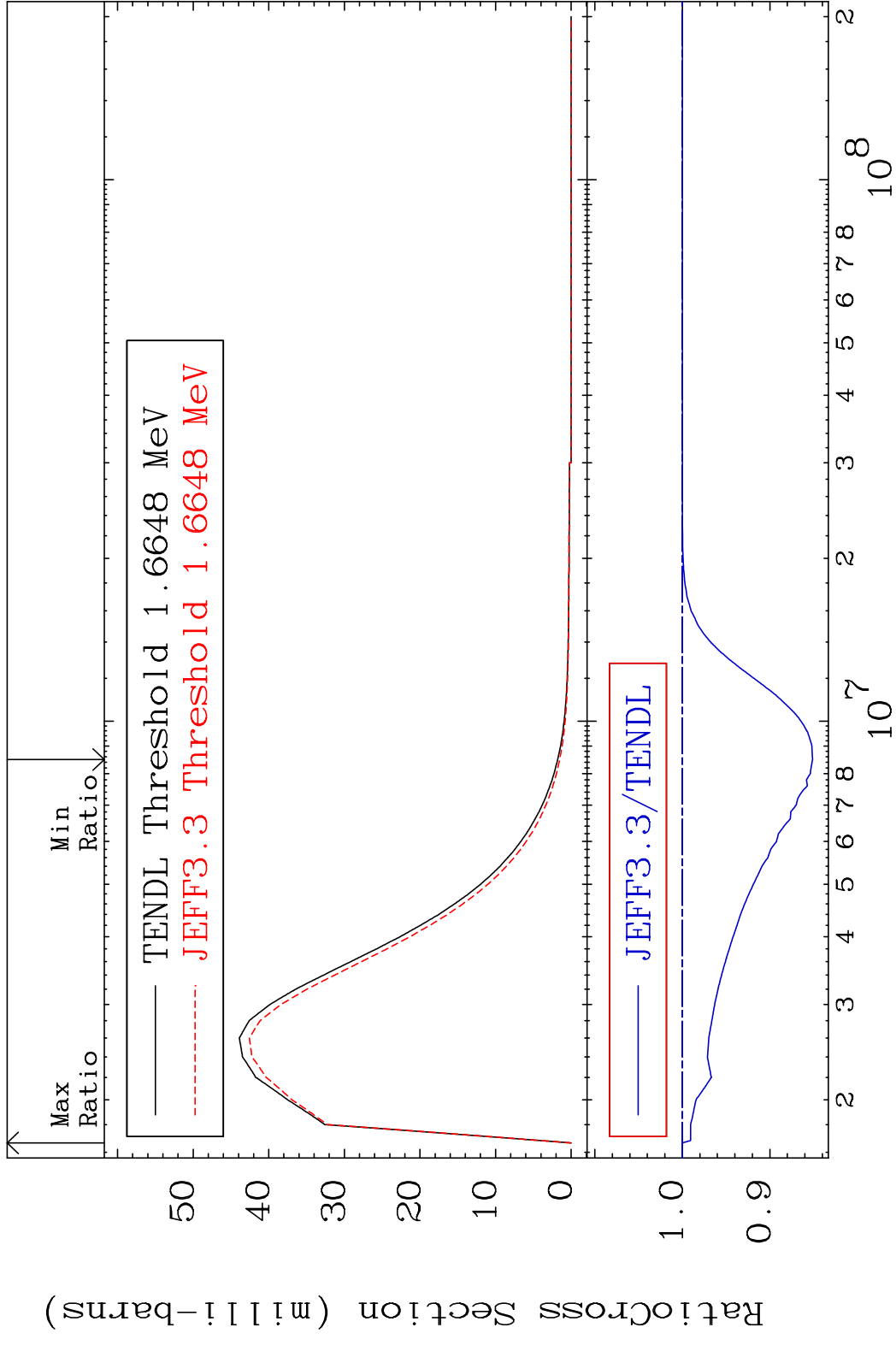
MAT 2522 MT= 63 (n, n') Level 25-Mn-54
 Cross Section -14.86 To 0.400 %



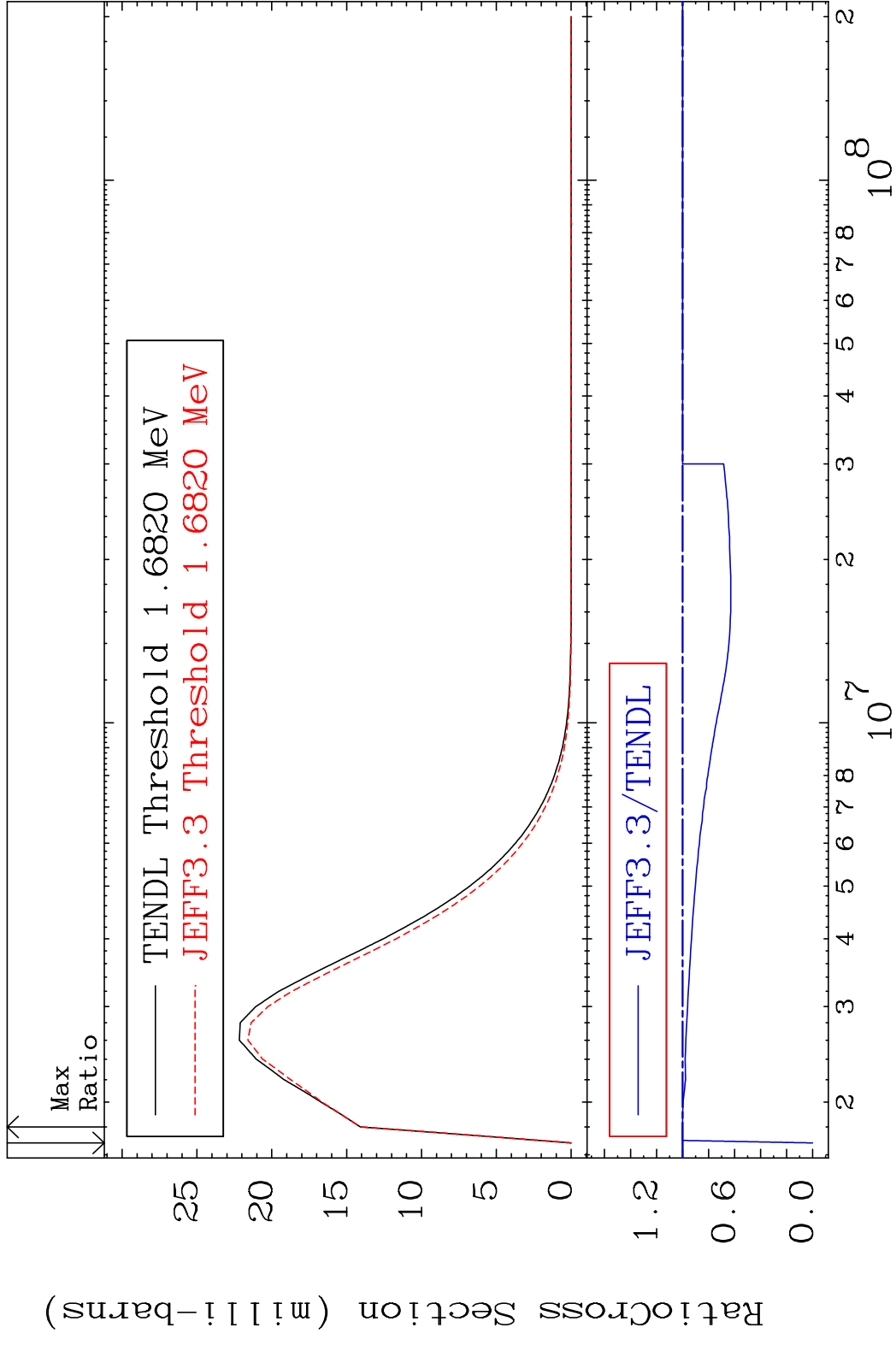
MAT 2522 MT= 64 (n, n') Level 25-Mn-54
 Cross Section -35.21 To 9999. %



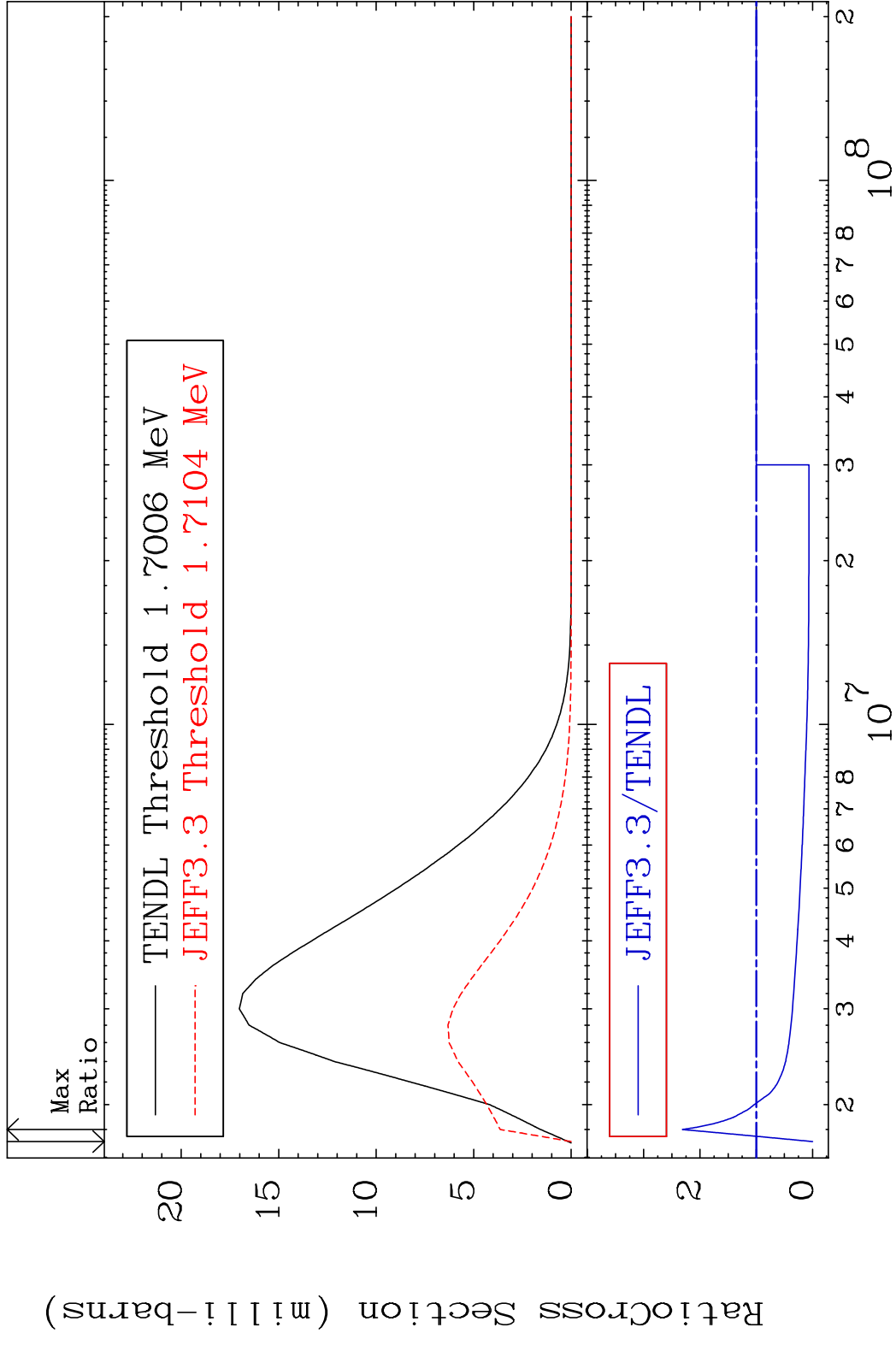
MAT 2522 MT= 65 (n,n') Level 25-Mn-54
 Cross Section -14.88 To 0.000 %



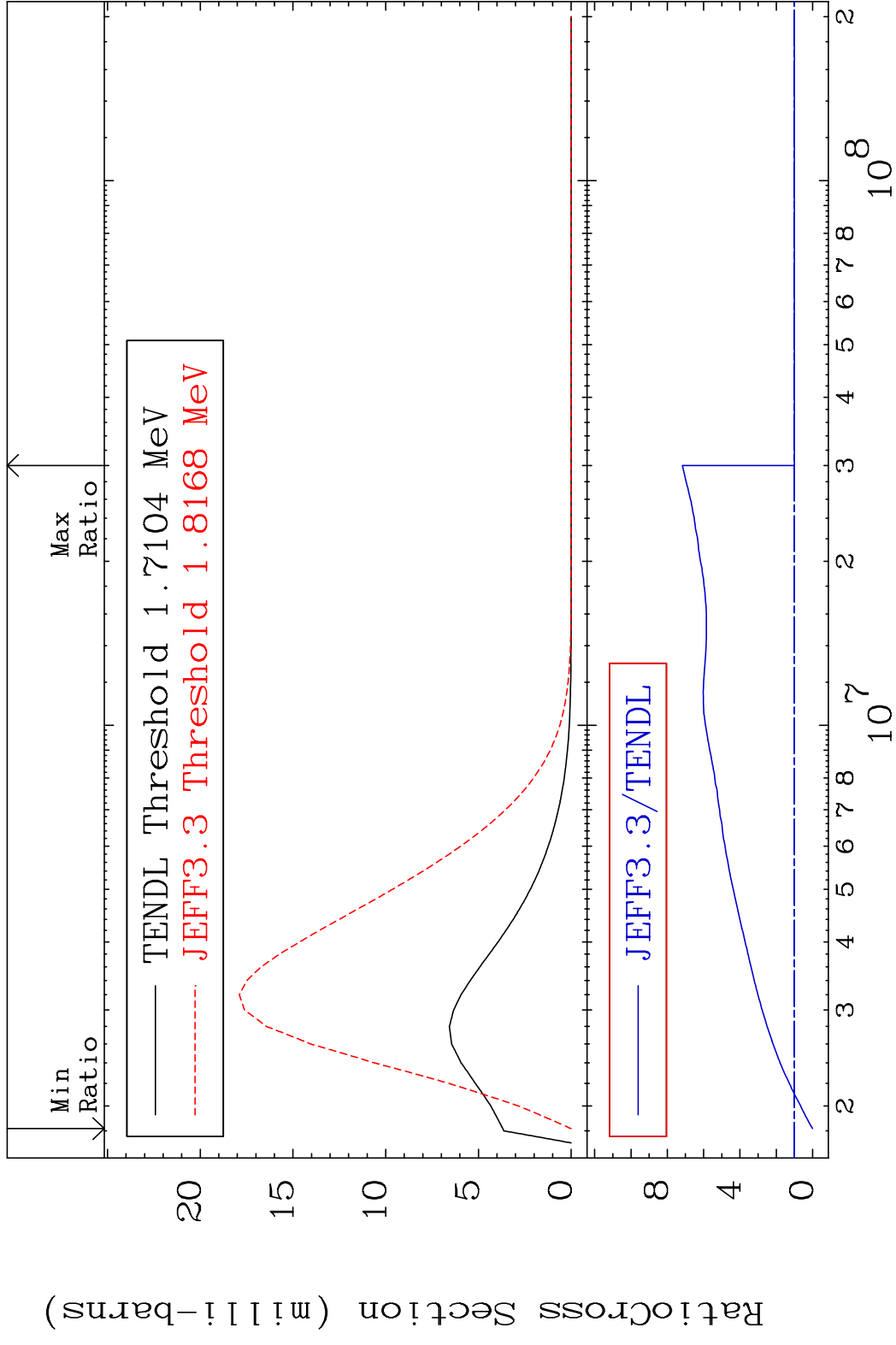
MAT 2522 MT= 66 (n,n') Level 25-Mn-54
 Cross Section -100.0 To 0.131 %



MAT 2522 MT= 67 (n, n') Level 25-Mn-54
 Cross Section -100.0 To 131.3 %

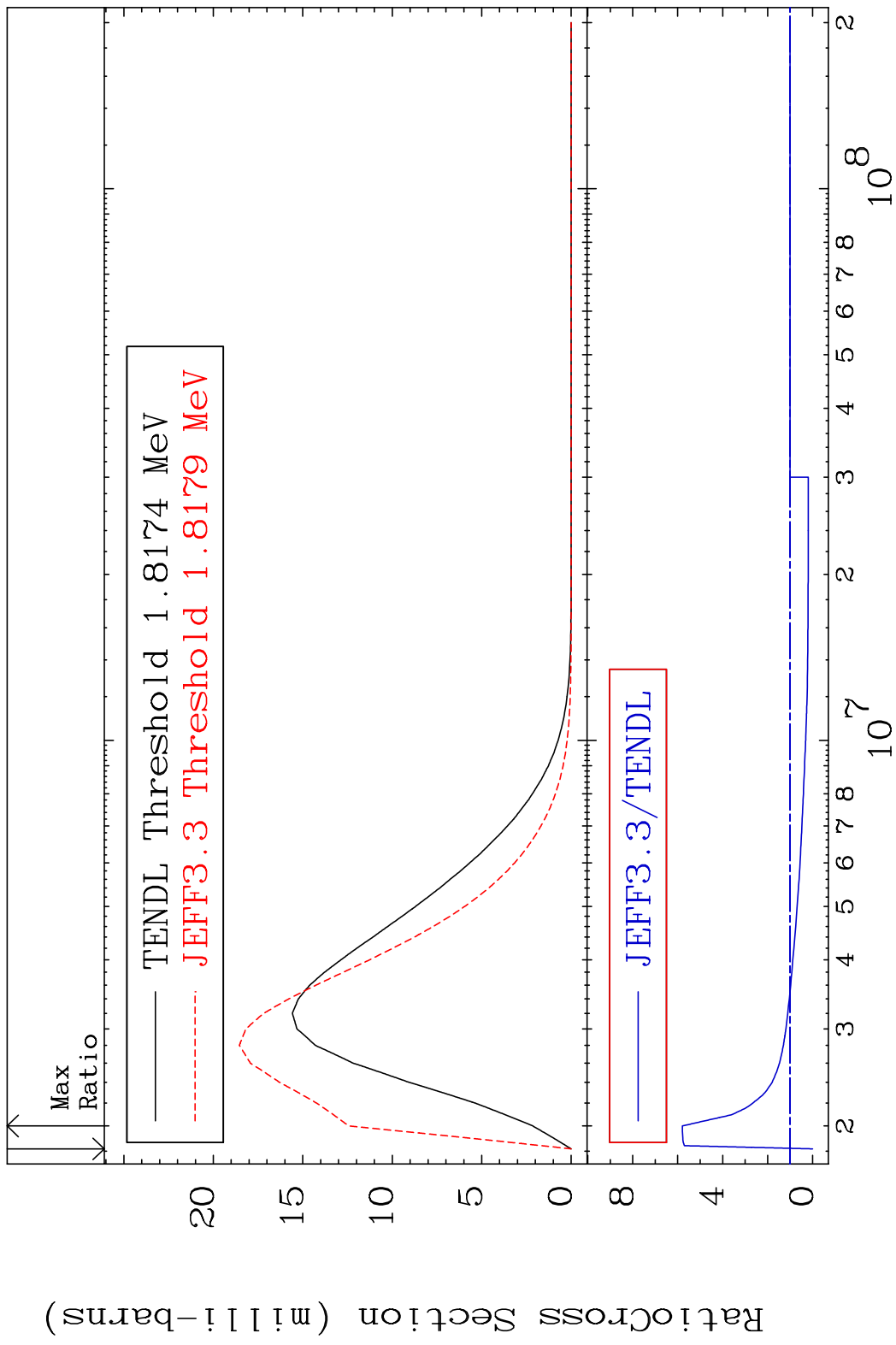


MAT 2522 MT= 68 (n, n') Level 25-Mn-54
 Cross Section -100.0 To 617.1 %

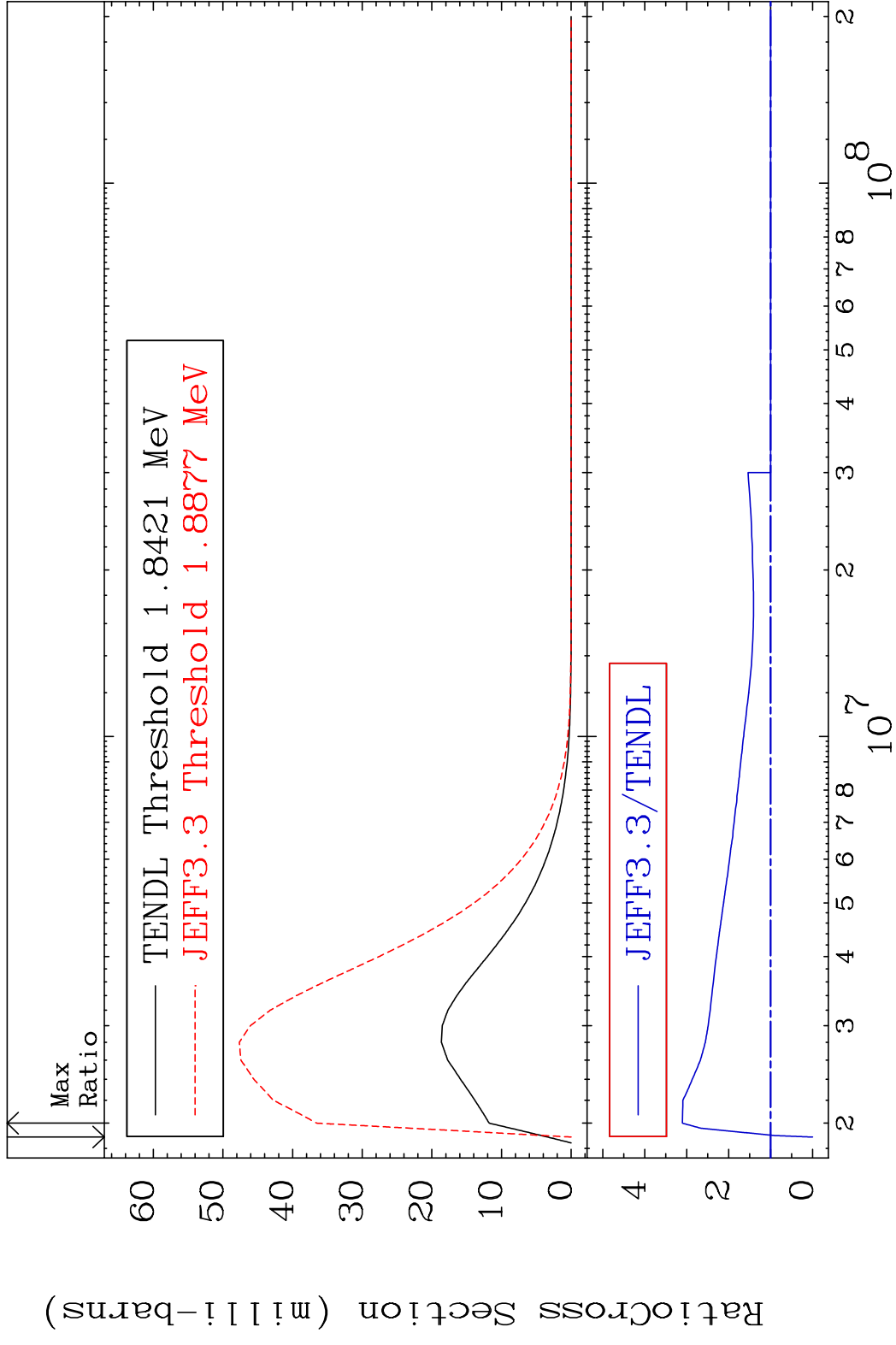


35 25-Mn-54

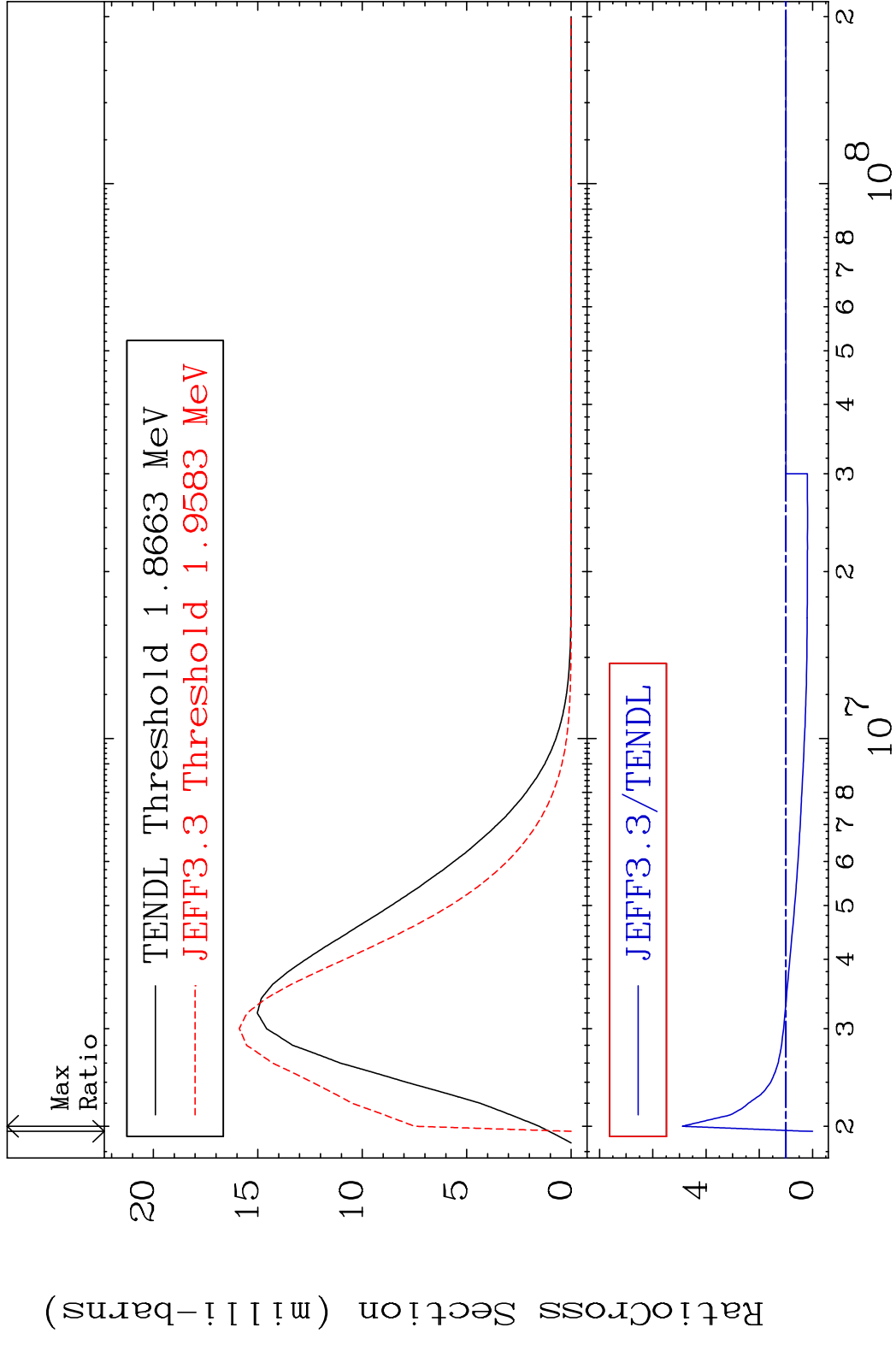
MAT 2522 MT= 69 (n,n') Level 25-Mn-54
 Cross Section -100.0 To 479.3 %



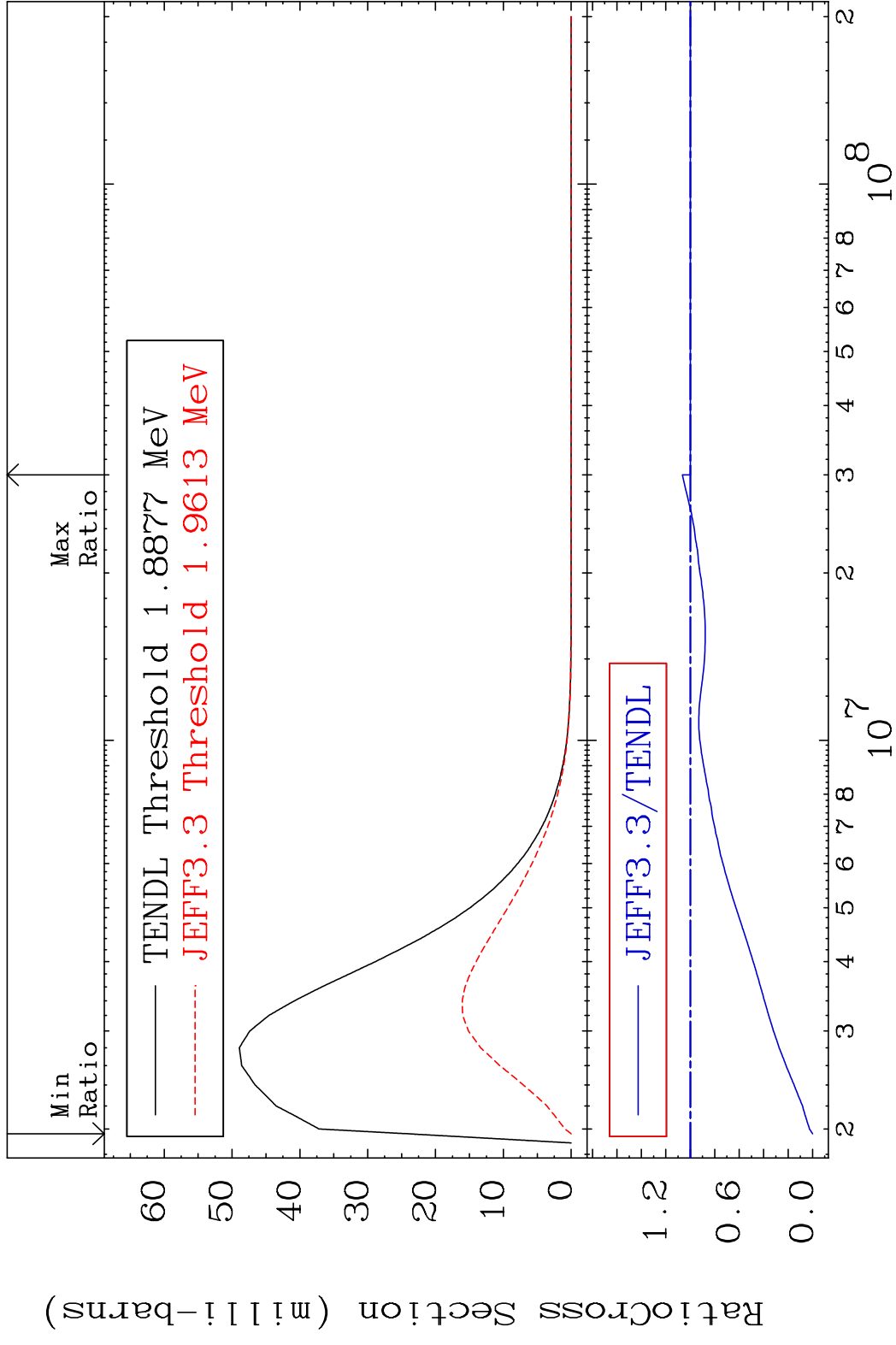
MAT 2522 MT= 70 (n, n') Level 25-Mn-54
 Cross Section -100.0 To 210.4 %



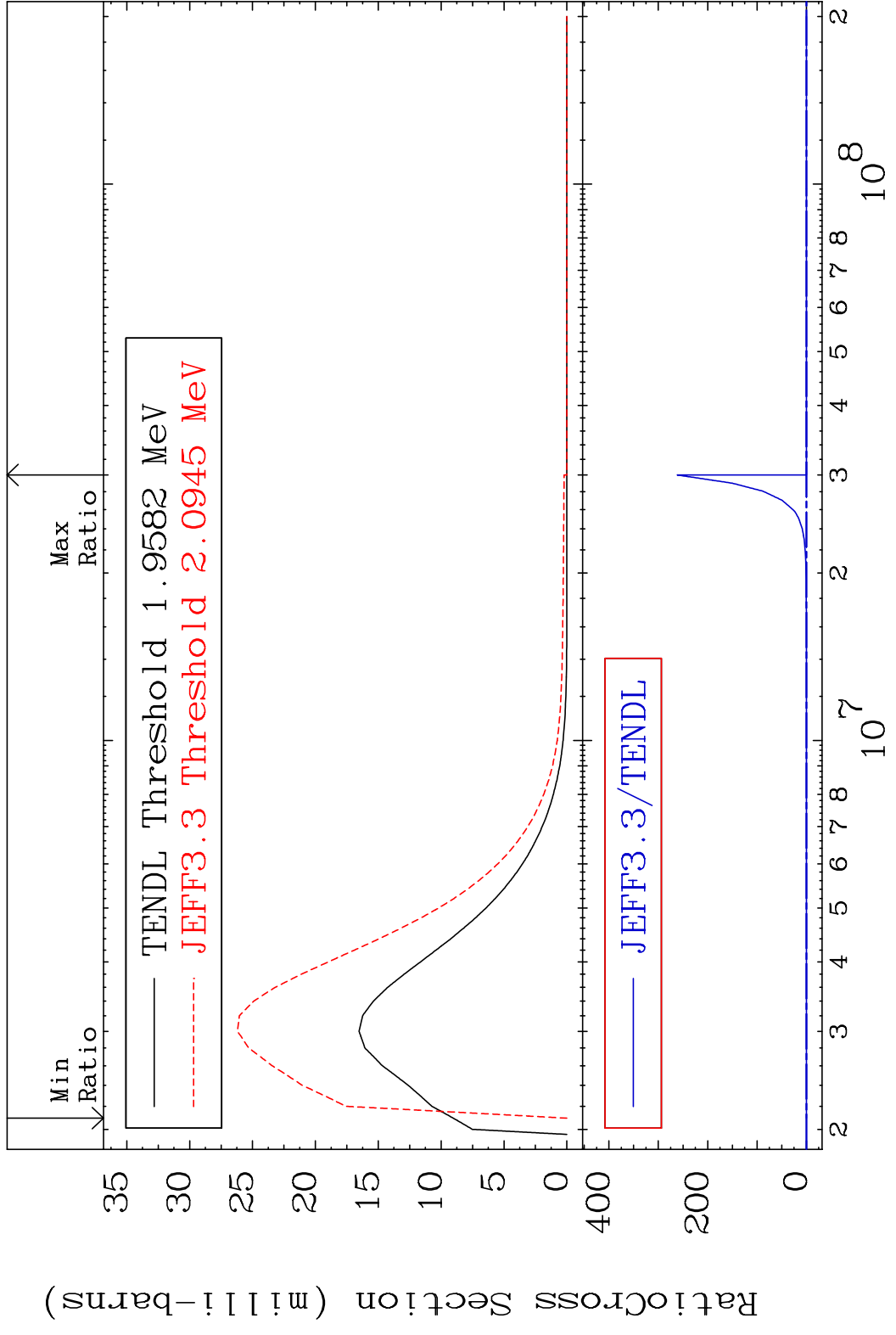
MAT 2522 MT= 71 (n, n') Level 25-Mn-54
 Cross Section -100.0 To 389.0 %



MAT 2522 MT= 72 (n, n') Level 25-Mn-54
 Cross Section -100.0 To 6.493 %

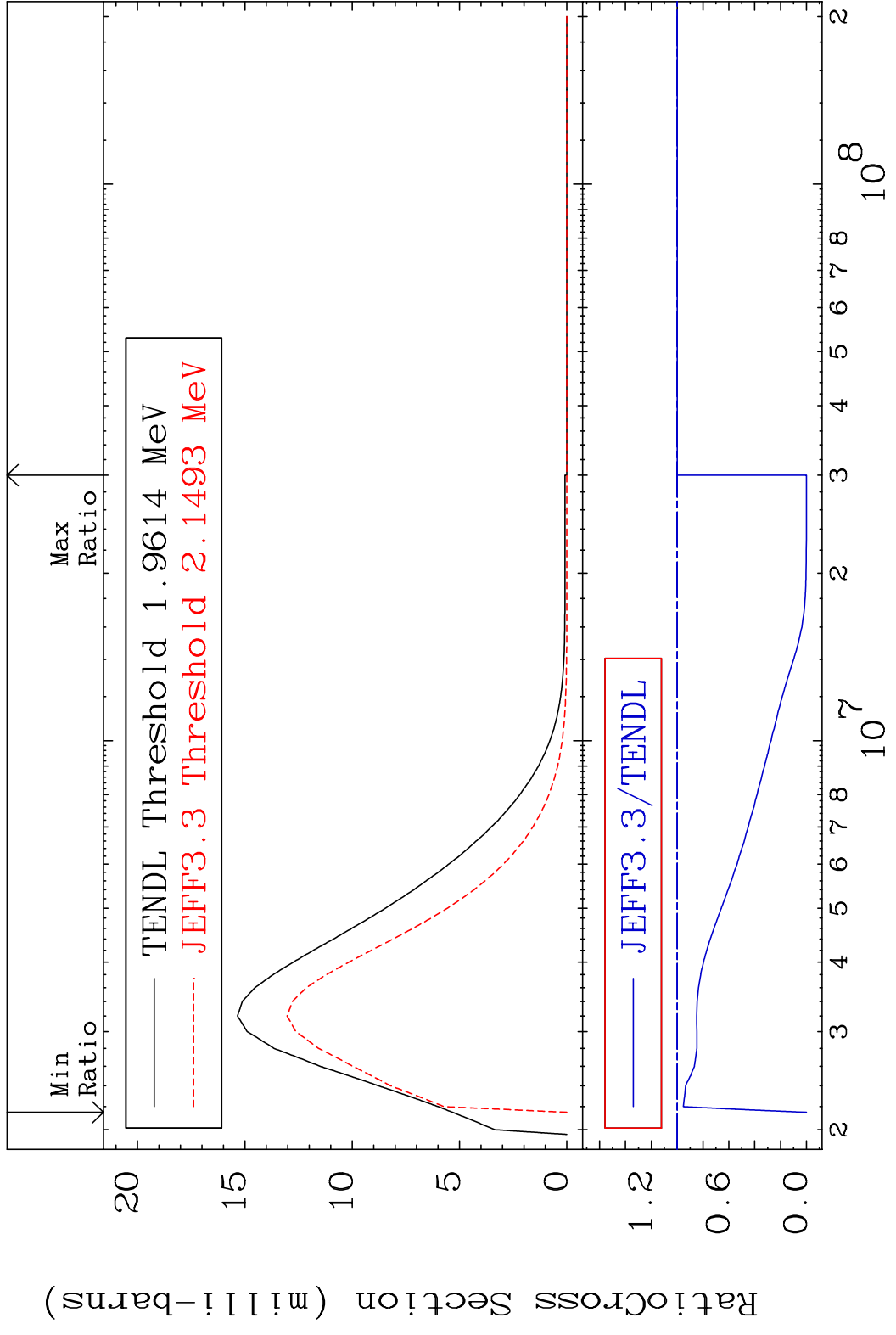


MAT 2522 MT= 73 (n, n') Level 25-Mn-54
 Cross Section -100.0 To 9999. %

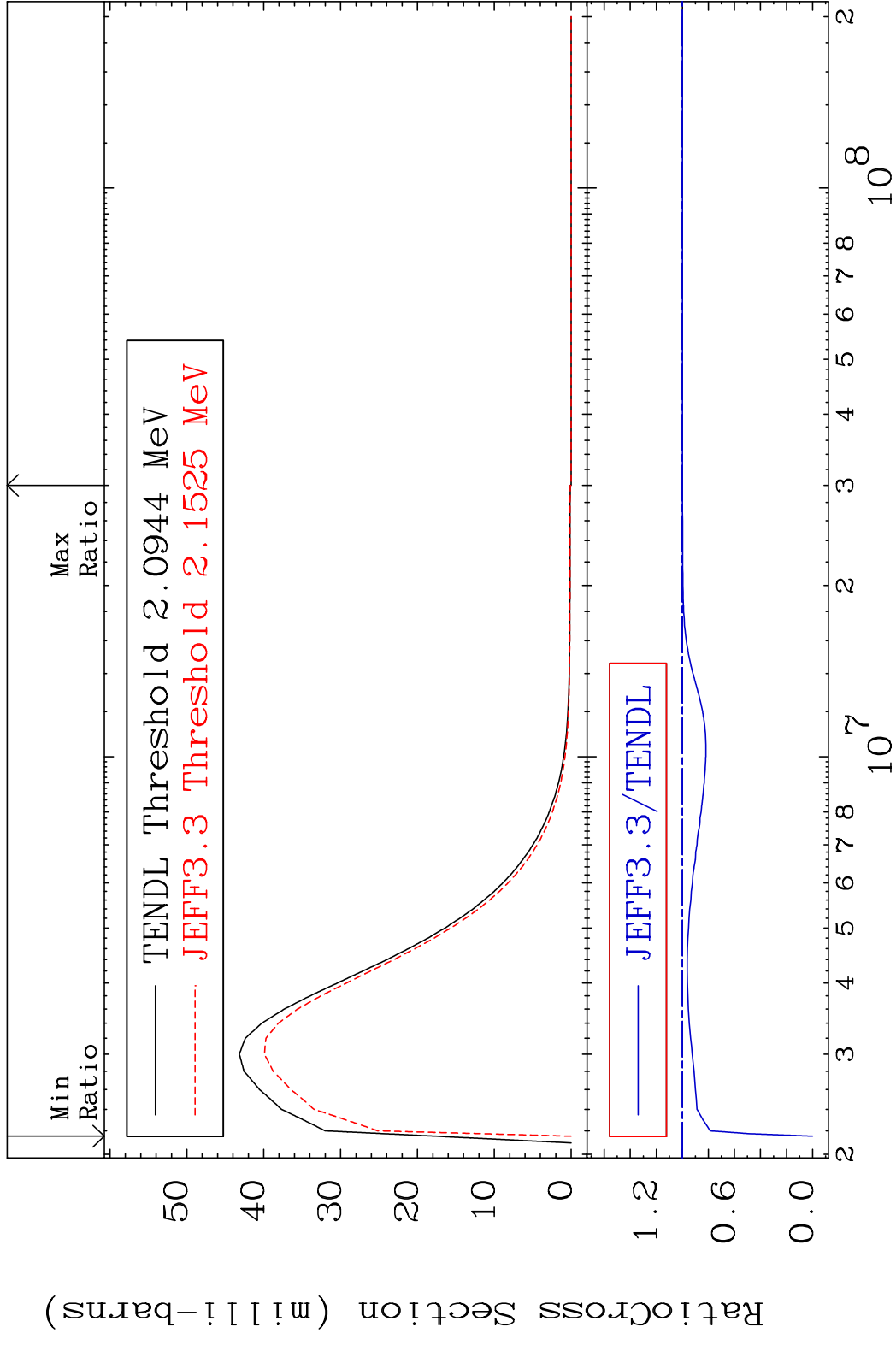


40 Incident Energy (eV) 25-Mn-54

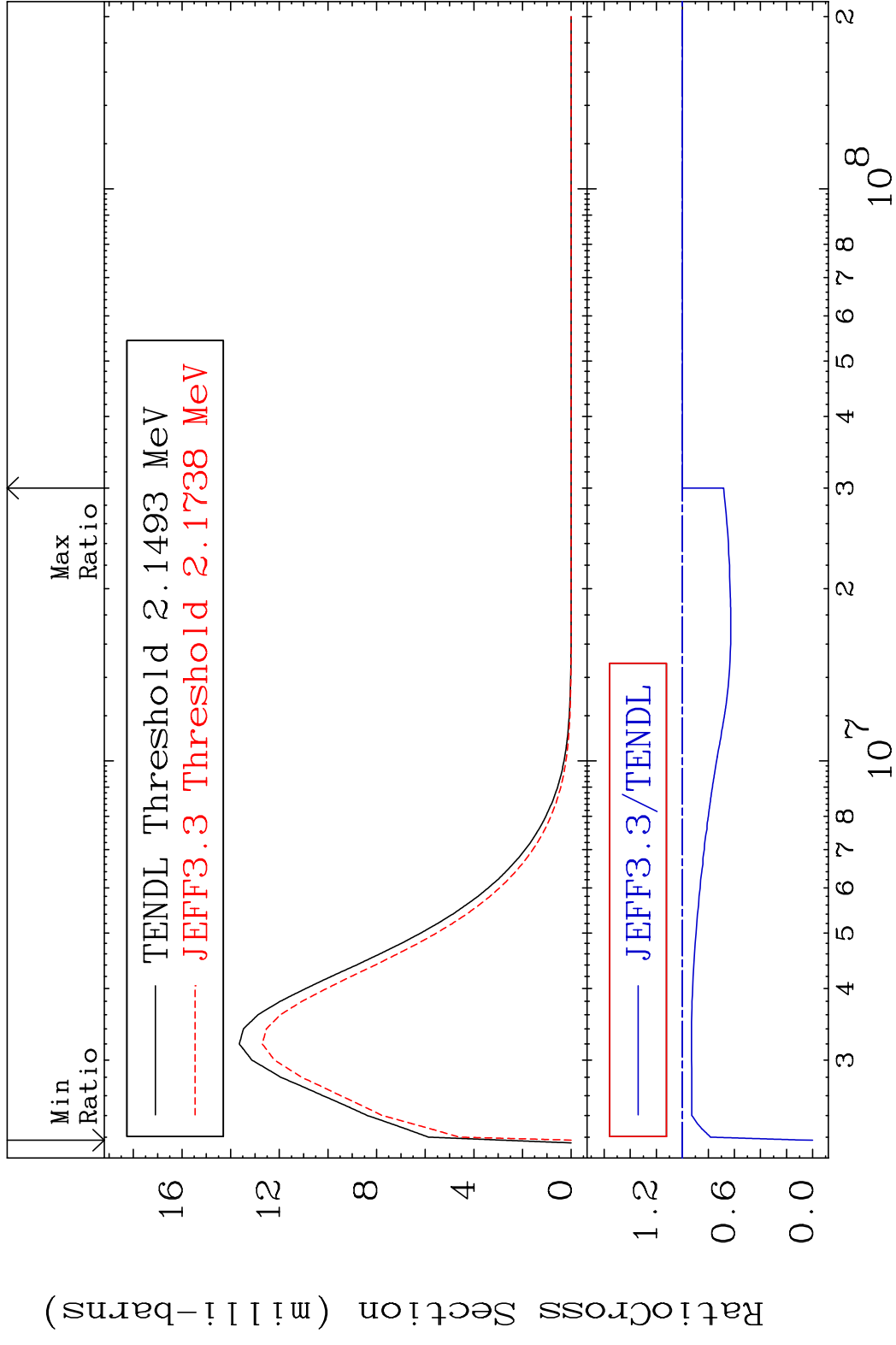
MAT 2522 MT= 74 (n, n') Level 25-Mn-54
 Cross Section -100.0 To 0.000 %



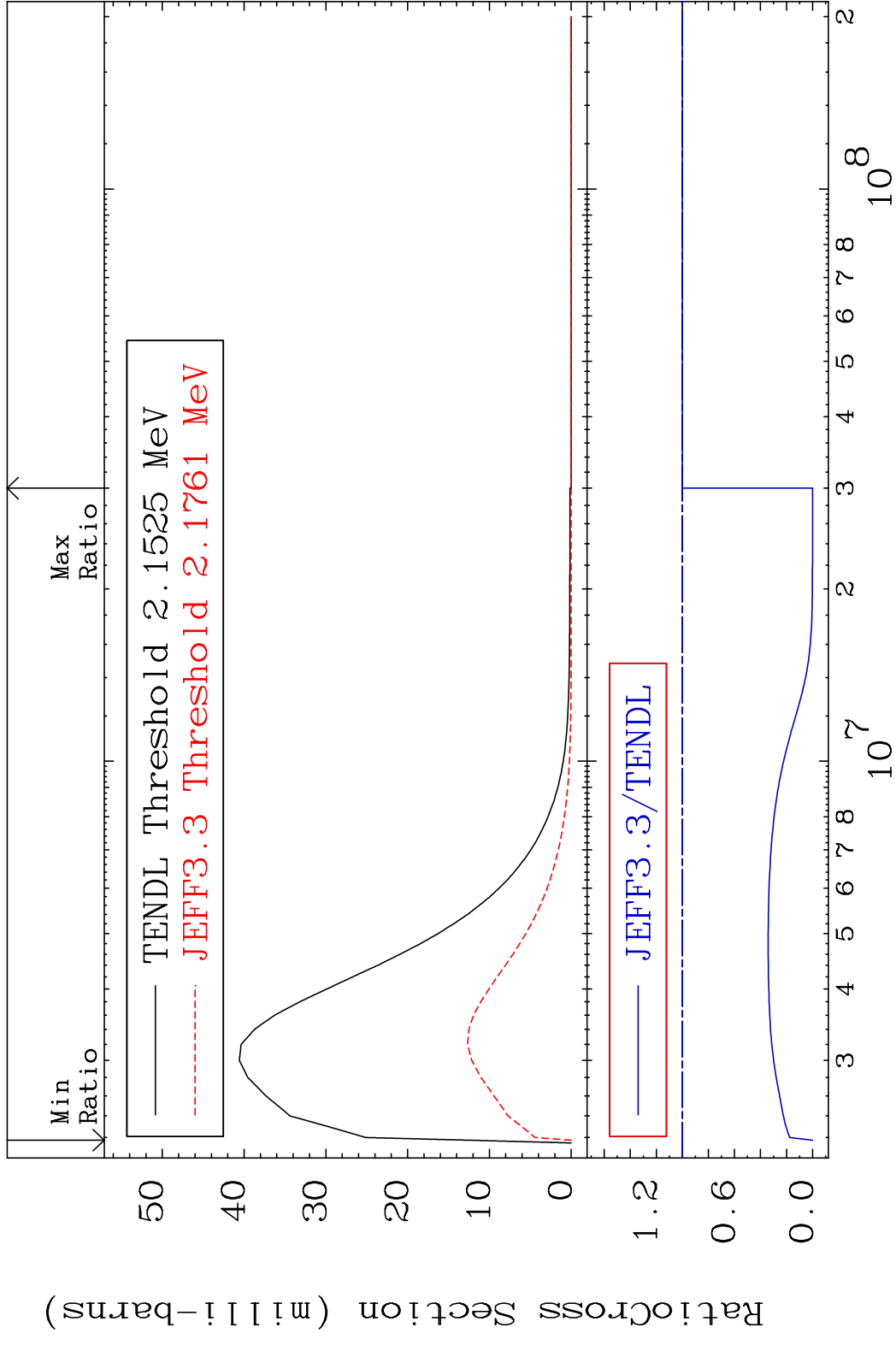
MAT 2522 MT= 75 (n, n') Level 25-Mn-54
 Cross Section -100.0 To 0.000 %



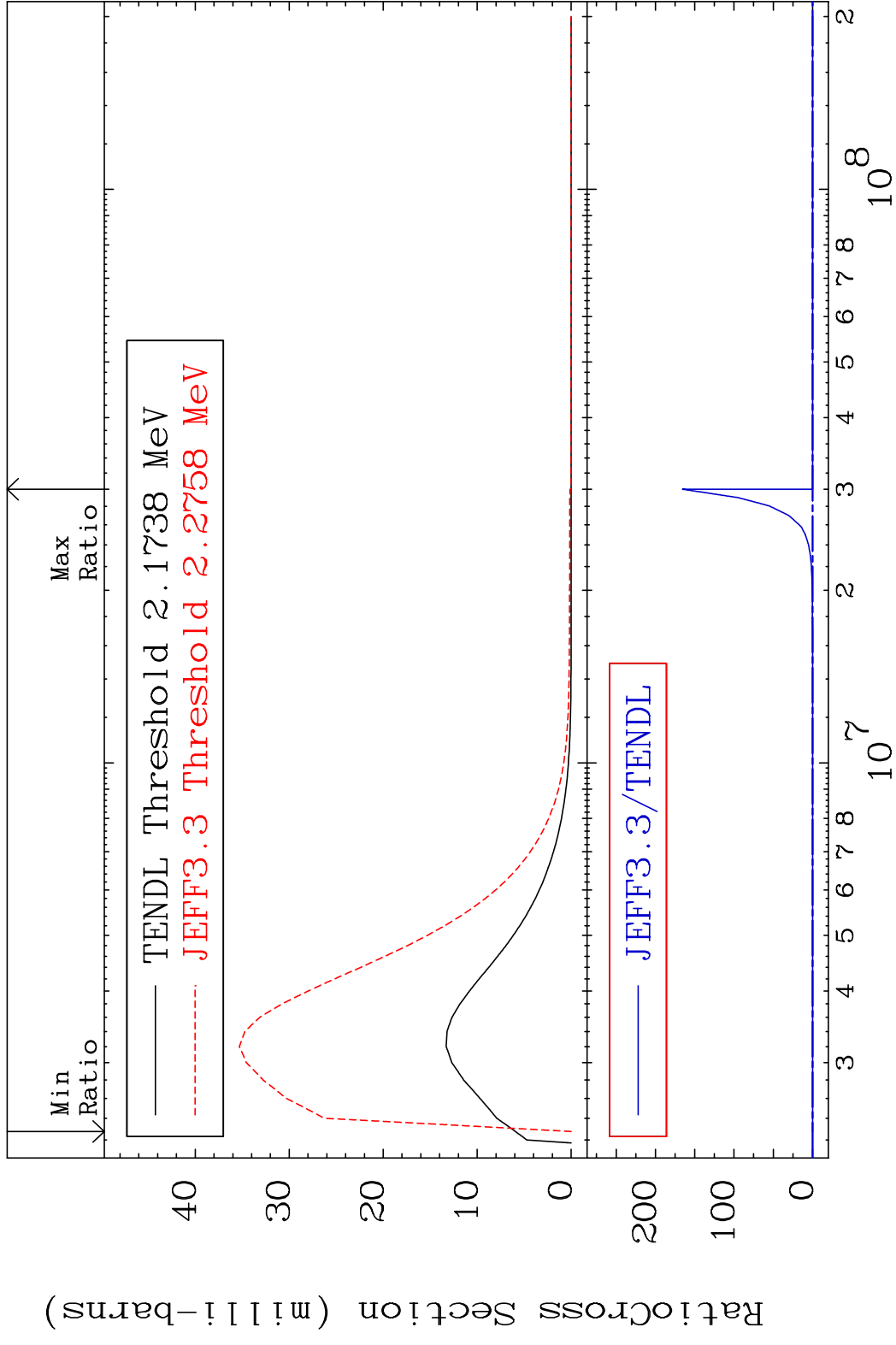
MAT 2522 MT= 76 (n, n') Level 25-Mn-54
 Cross Section -100.0 To 0.000 %



MAT 2522 MT= 77 (n, n') Level 25-Mn-54
 Cross Section -100.0 To 0.000 %

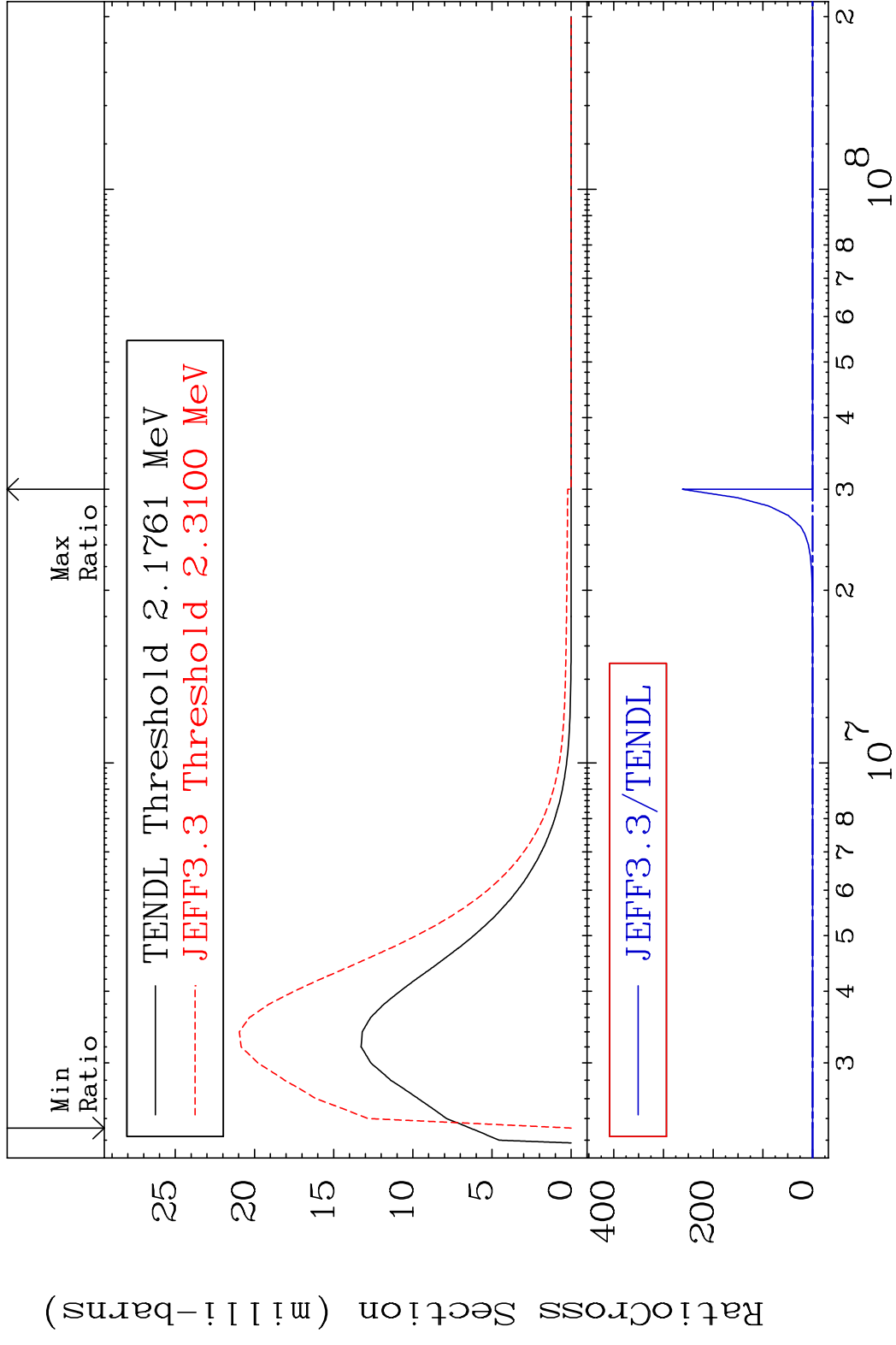


MAT 2522 MT= 78 (n, n') Level 25-Mn-54
 Cross Section -100.0 To 9999. %



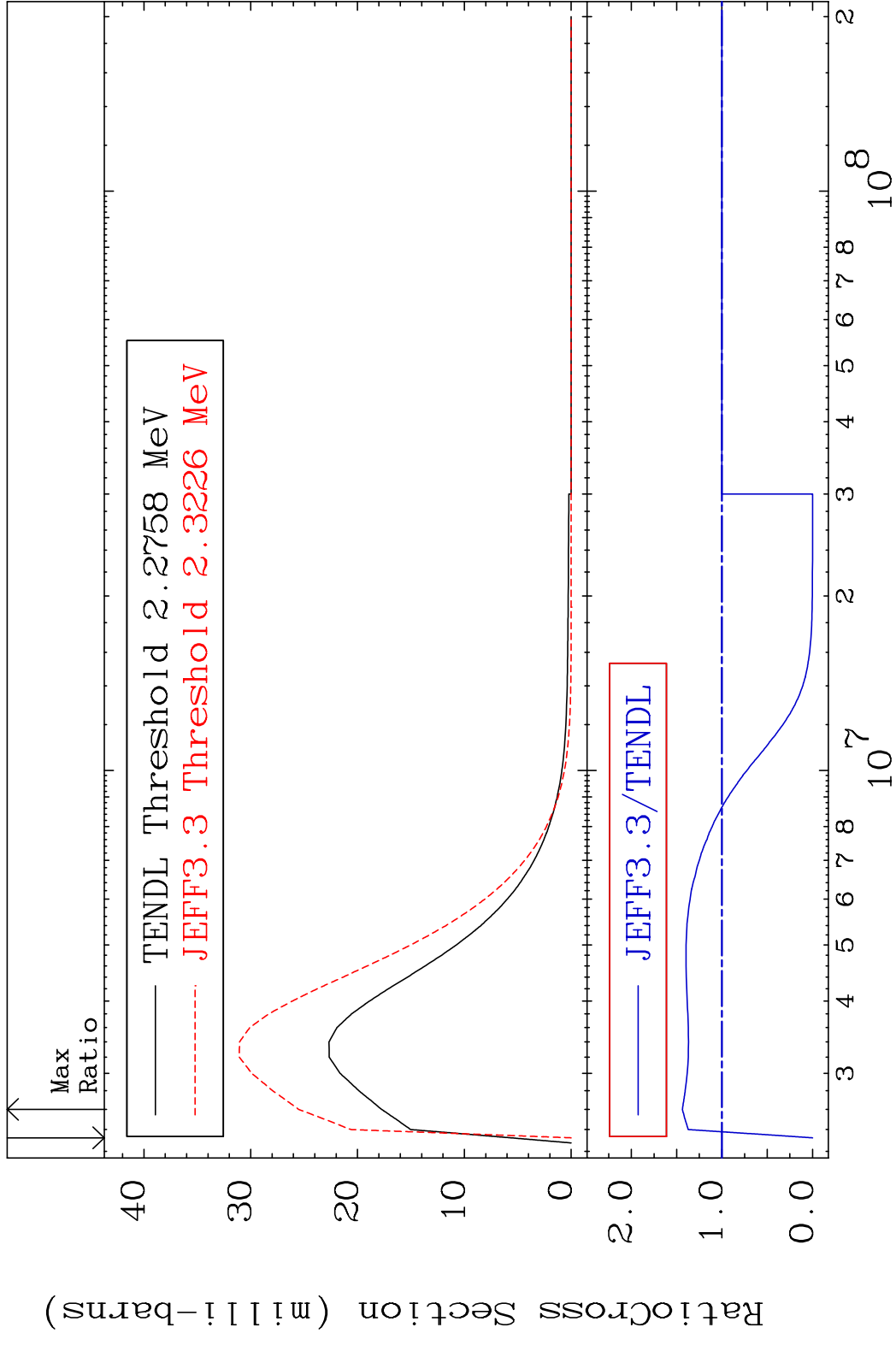
45 25-Mn-54

MAT 2522 MT= 79 (n, n') Level 25-Mn-54
 Cross Section -100.0 To 9999. %

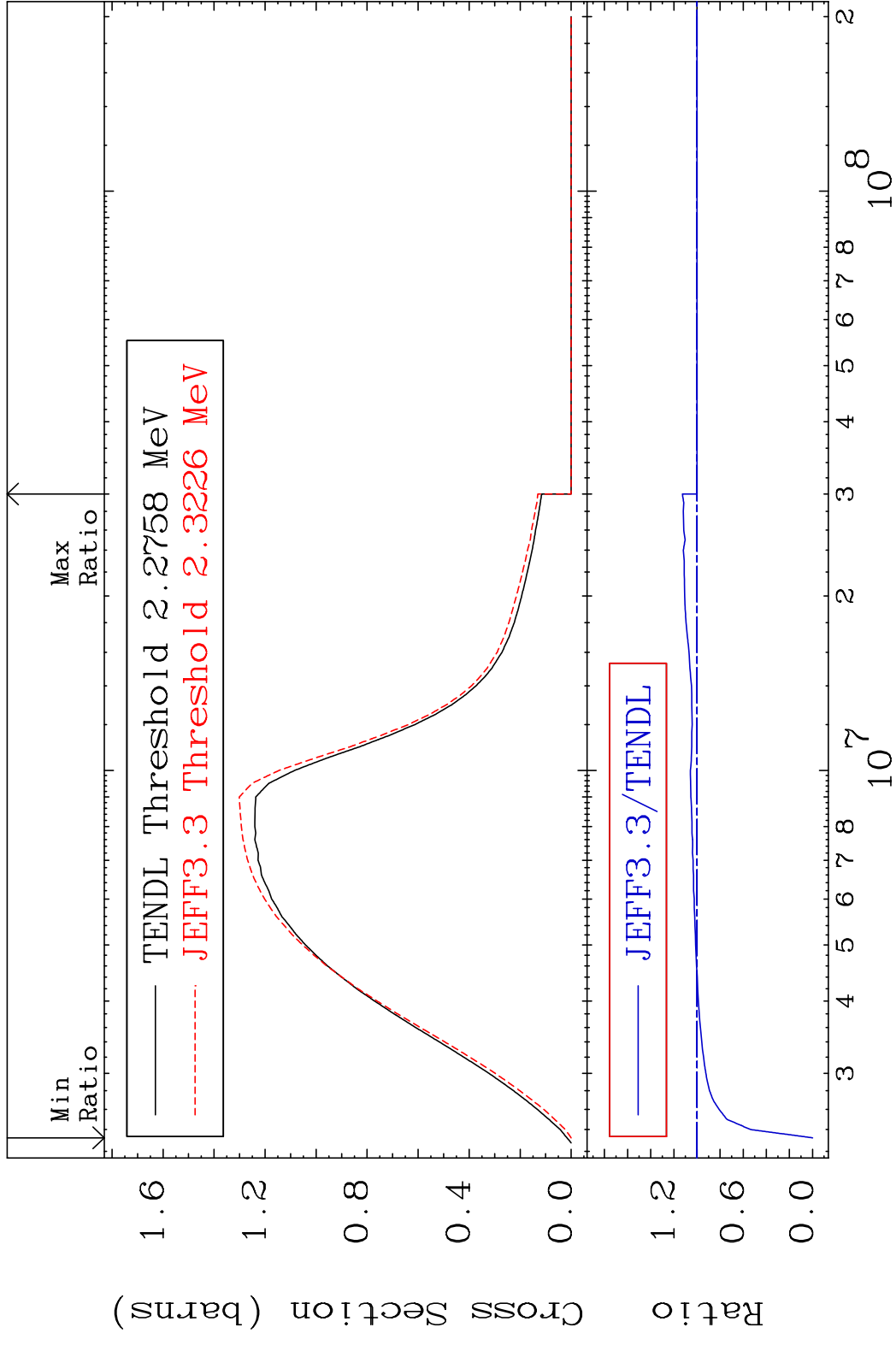


46 Incident Energy (eV) 25-Mn-54

MAT 2522 MT= 80 (n, n') Level 25-Mn-54
 Cross Section -100.0 To 43.71 %

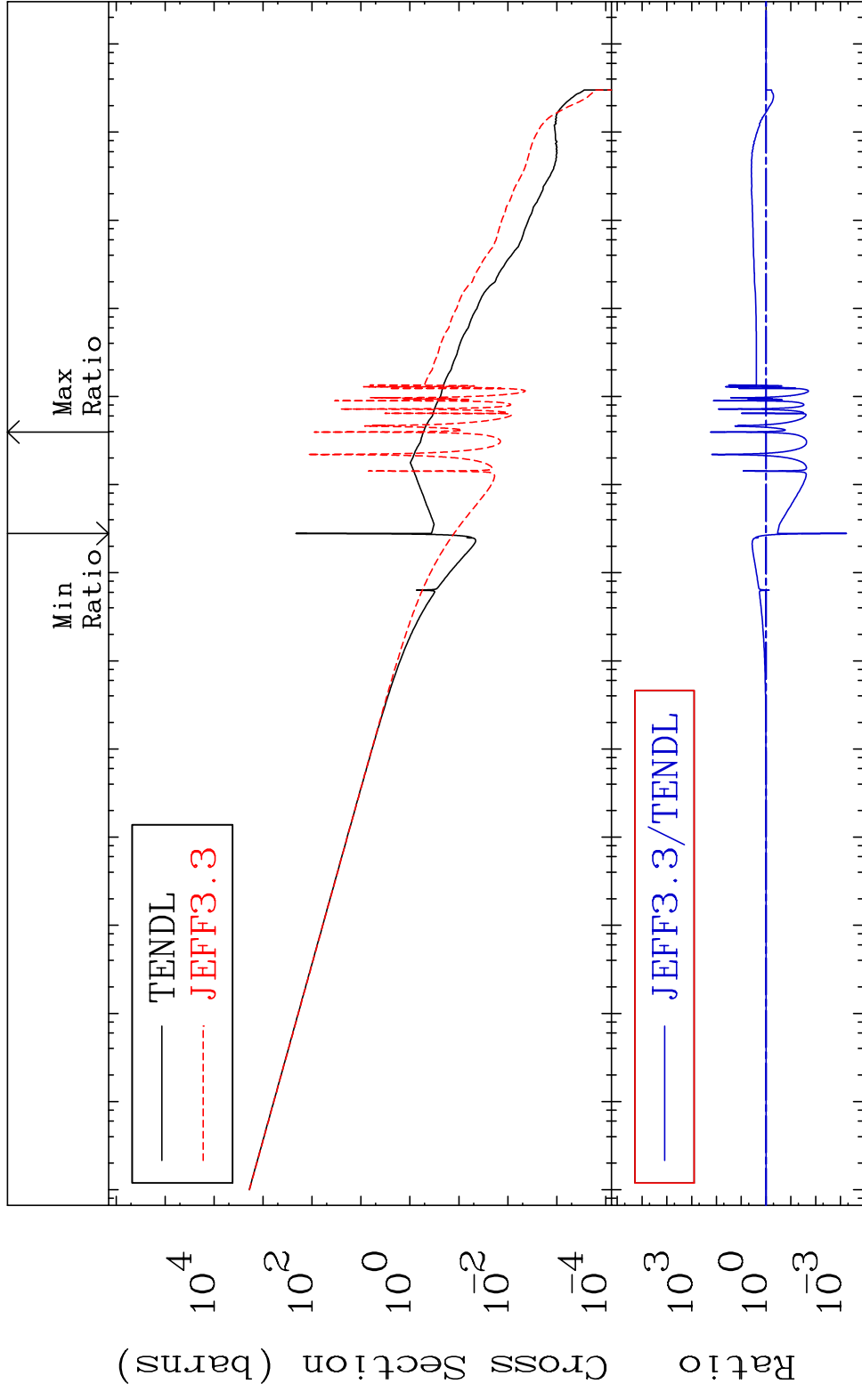


MAT 2522 (n, n') Continuum 25-Mn-54
 Cross Section -100.0 To 12.63 %



MAT 2522

(n, γ)
Cross Section -99.94 To 9999. %
25-Mn-54



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

49

Incident Energy (eV)

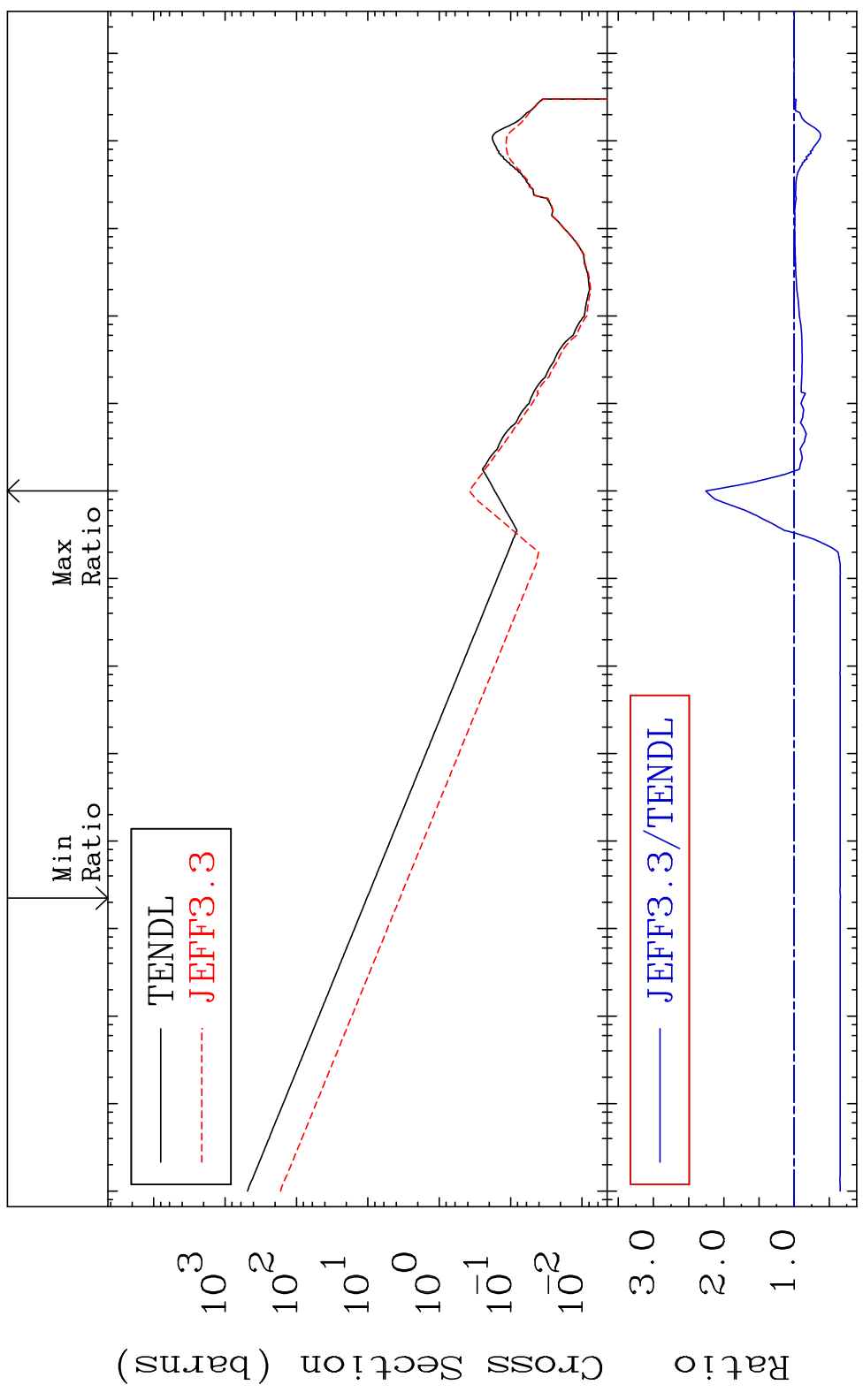
25-Mn-54

MAT 2522

(n, p)

25-Mn-54

Cross Section -65.71 To 125.8 %



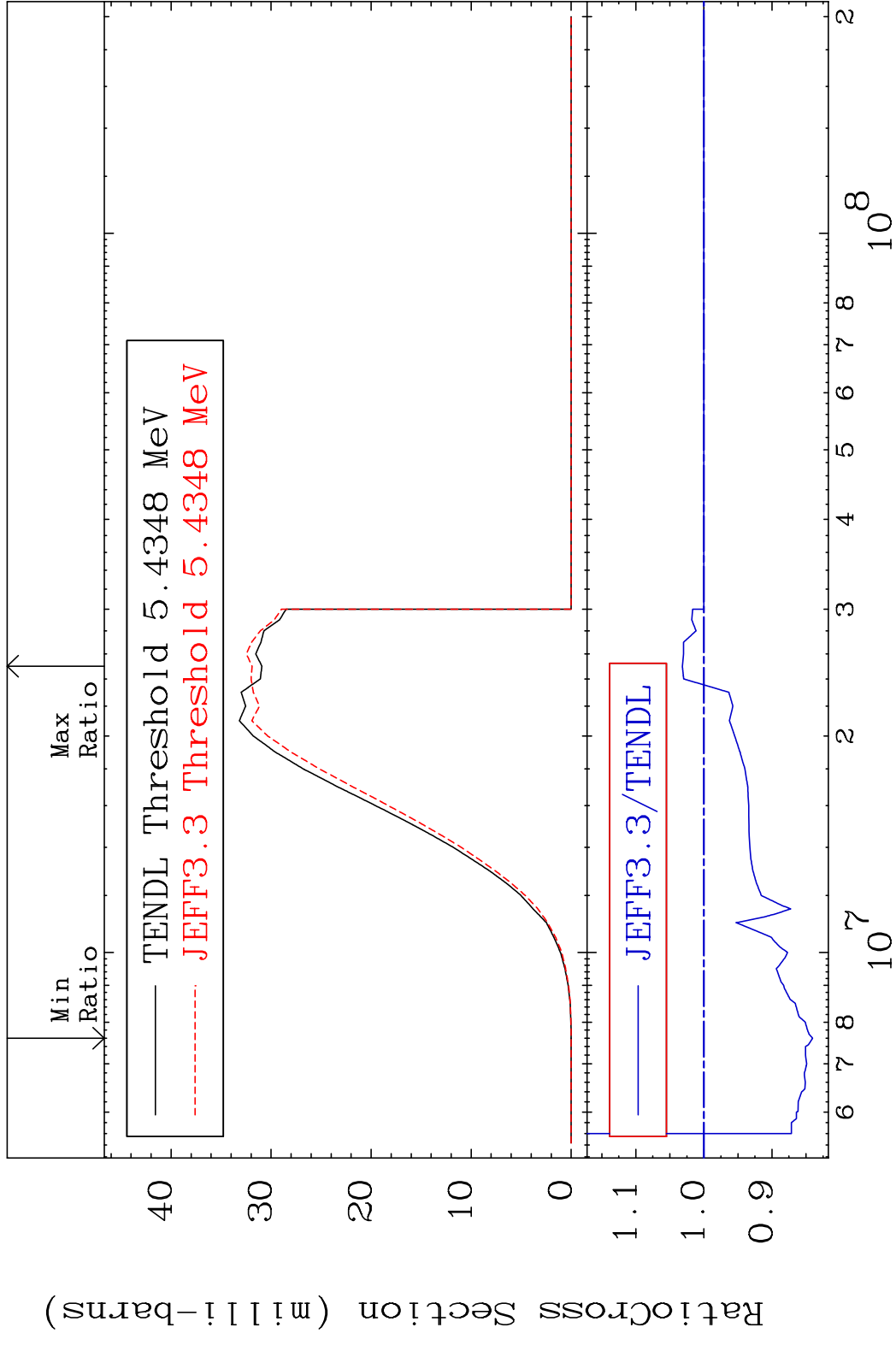
50 Incident Energy (eV) 25-Mn-54

MAT 2522

25-Mn-54

(n, d)

Cross Section -15.96 To 3.166 %

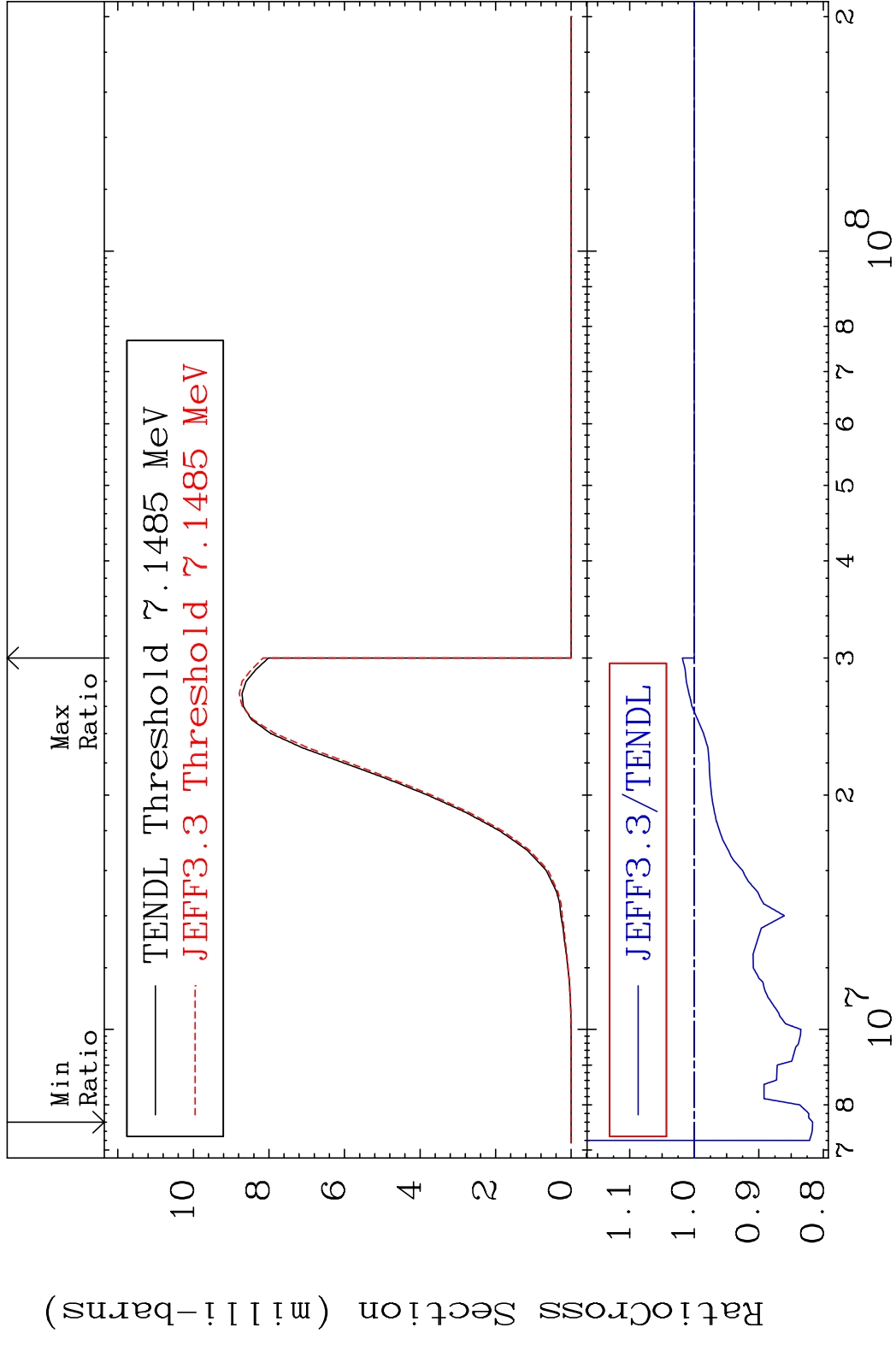


MAT 2522

(n, t)

25-Mn-54

Cross Section -18.33 To 1.849 %



52

Incident Energy (eV)

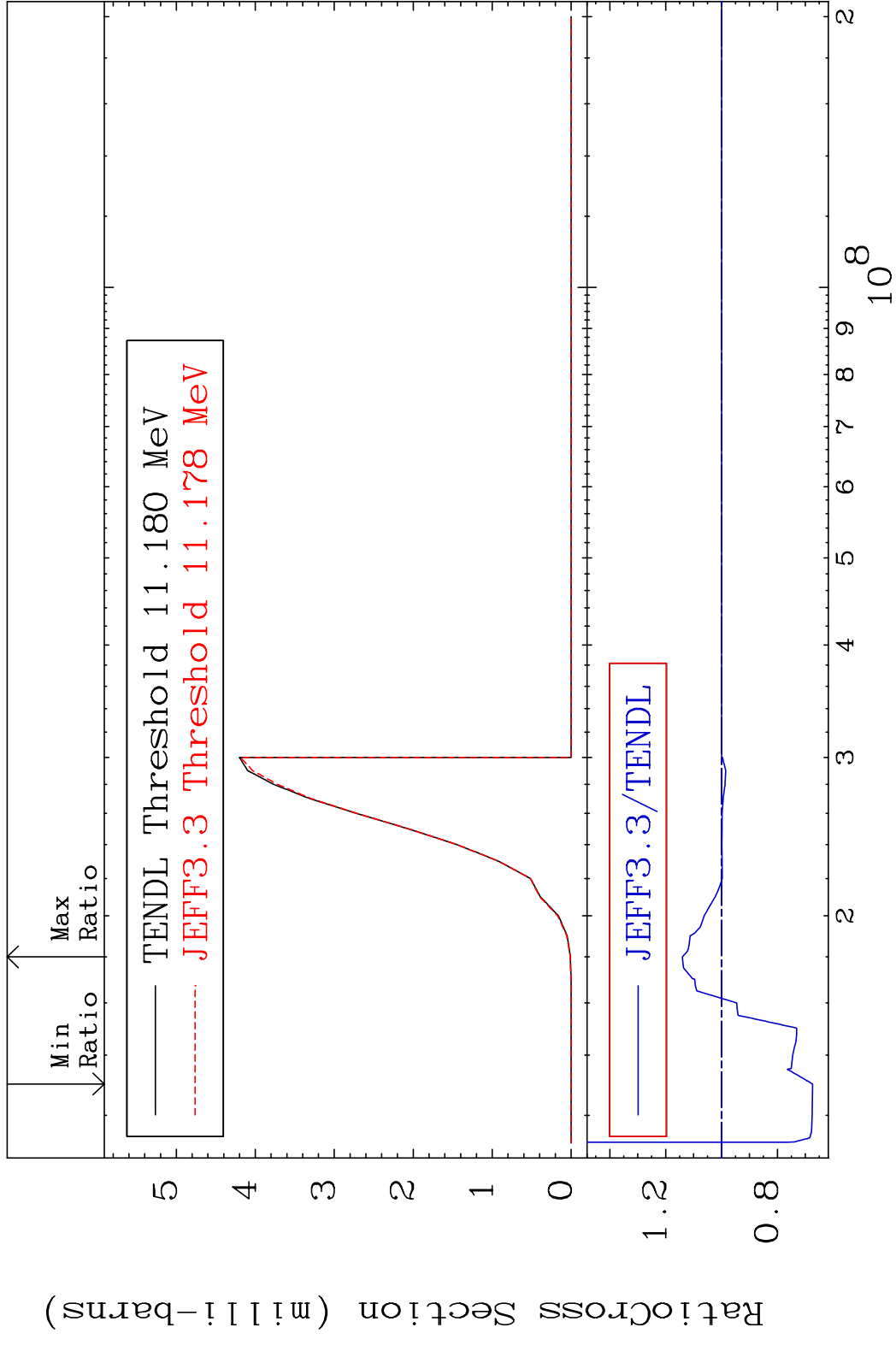
25-Mn-54

MAT 2522

(n, He-3)

²⁵Mn-54

Cross Section -32.58 To 14.02 %

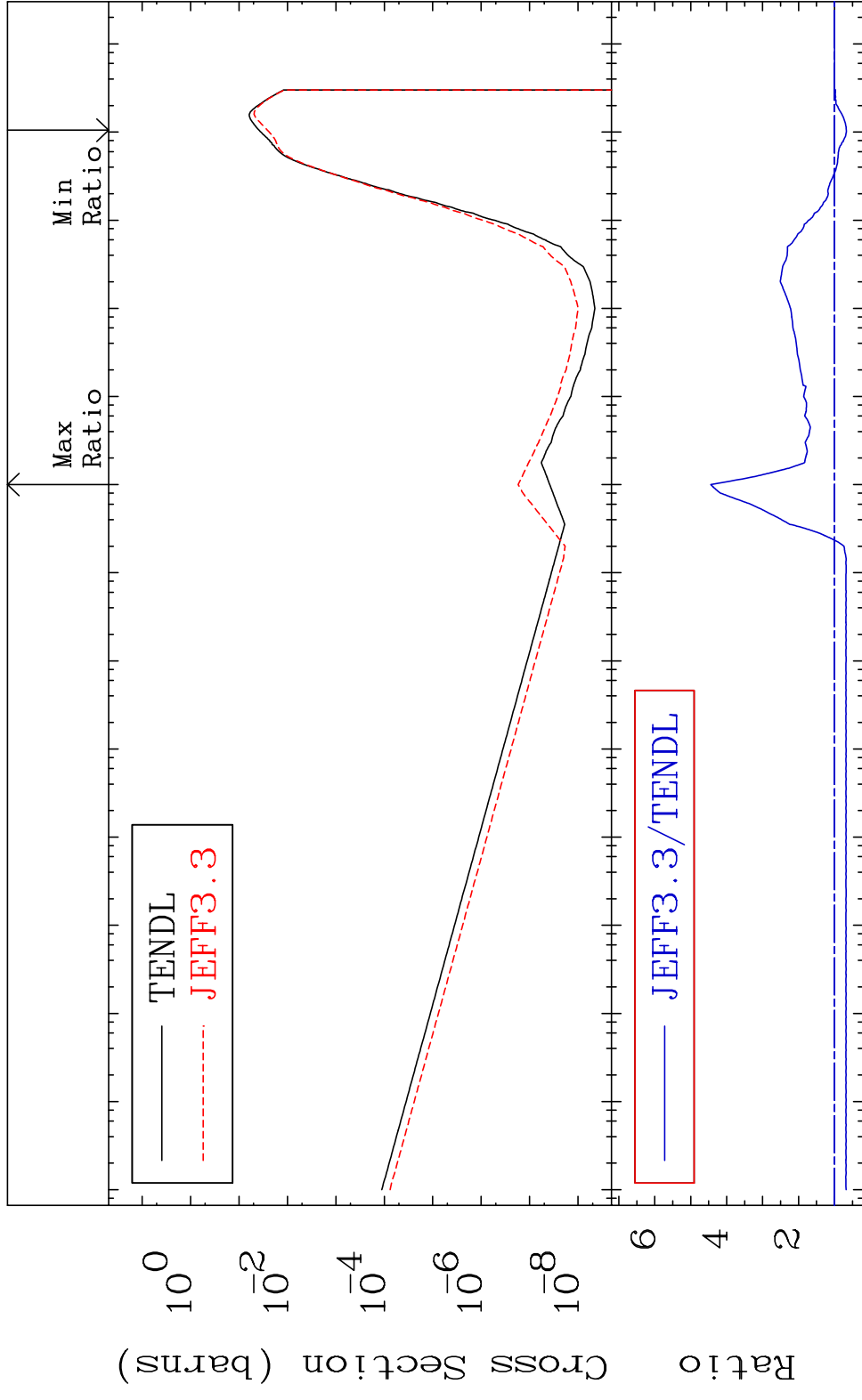


MAT 2522

(n, α)

25-Mn-54

Cross Section -32.90 To 344.3 %

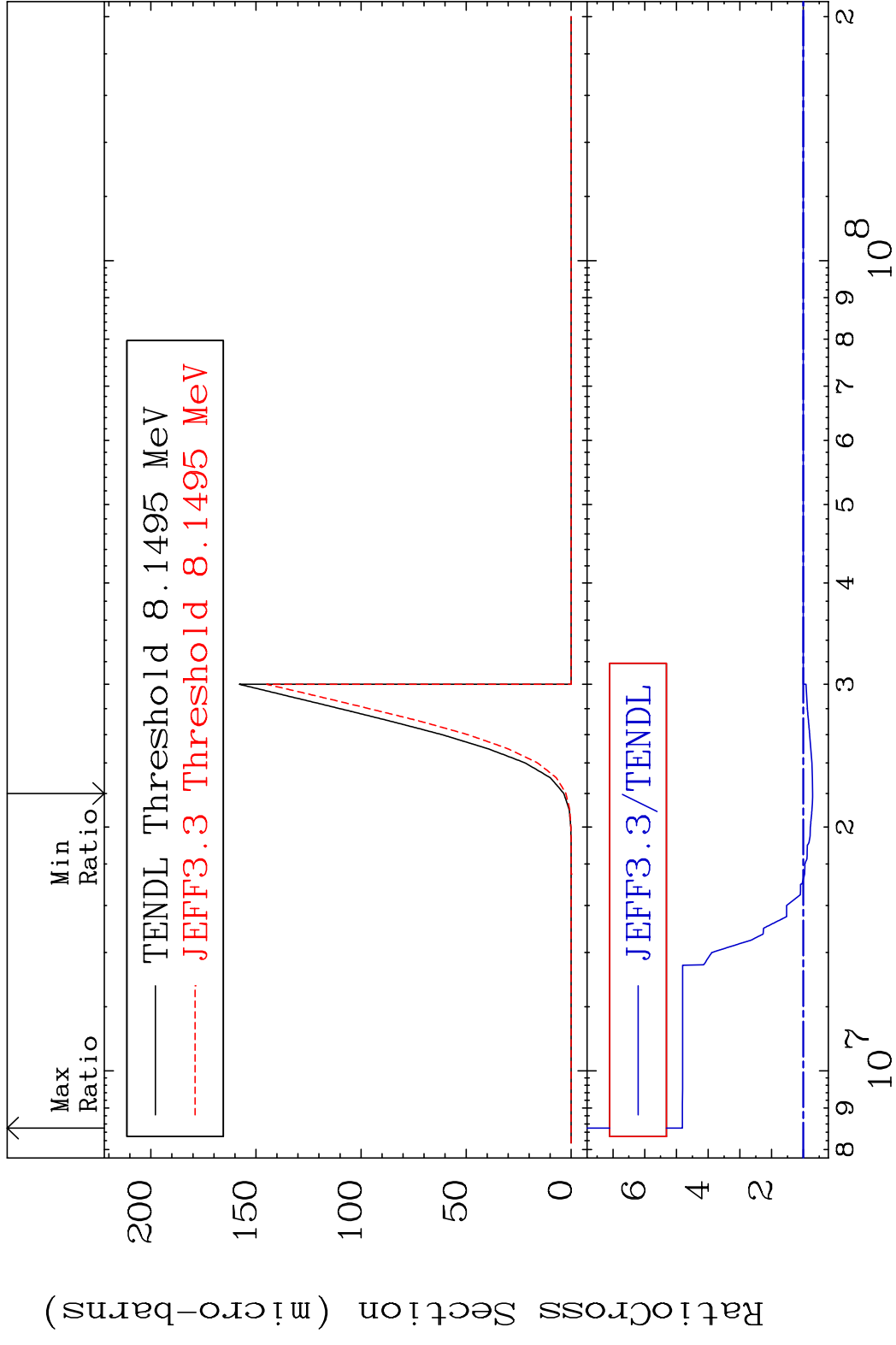


54

Incident Energy (eV)

25-Mn-54

MAT 2522 (n,2α) 25-Mn-54
 Cross Section -29.12 To 381.4 %

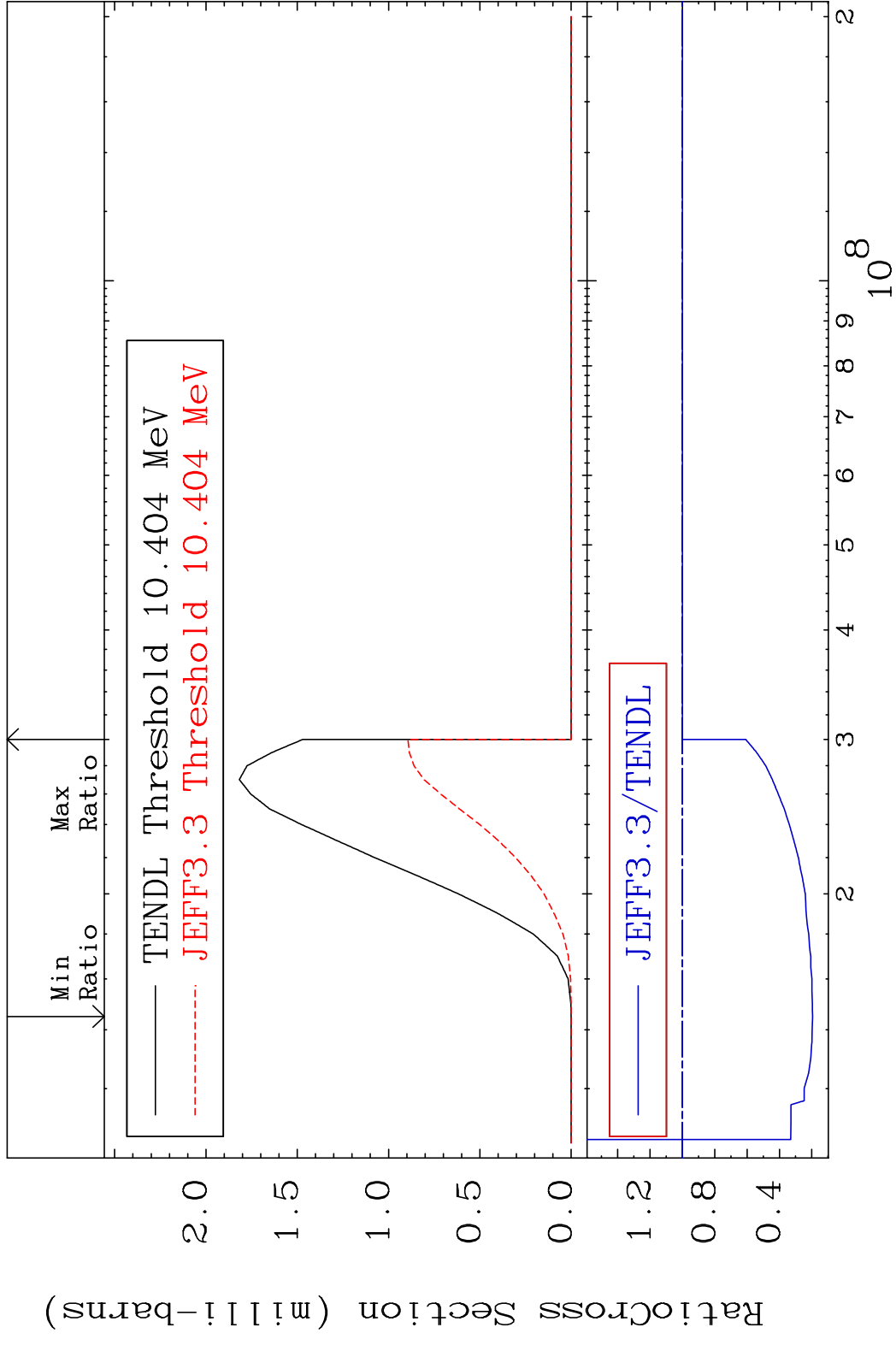


MAT 2522

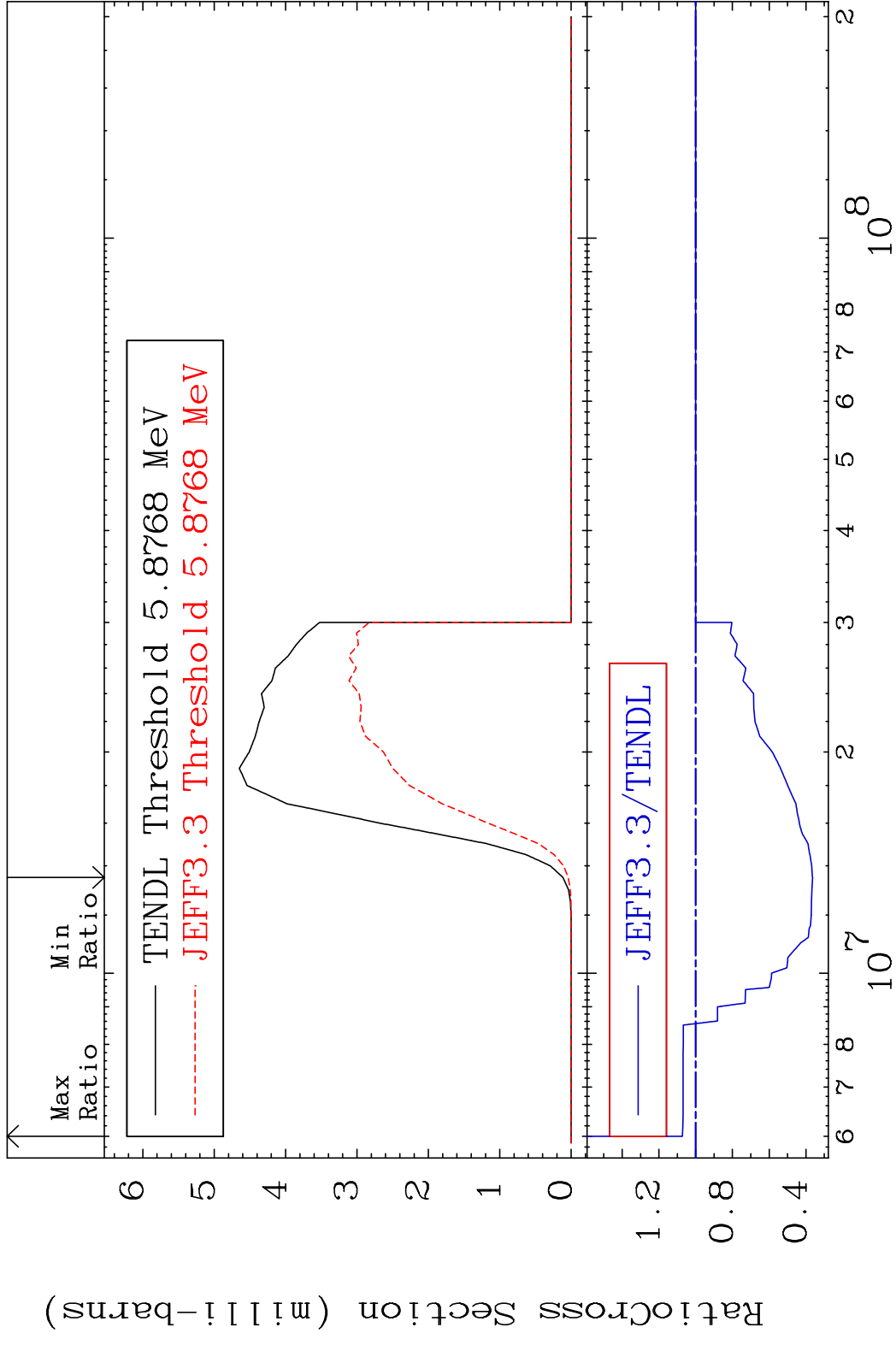
(n,2p)

25-Mn-54

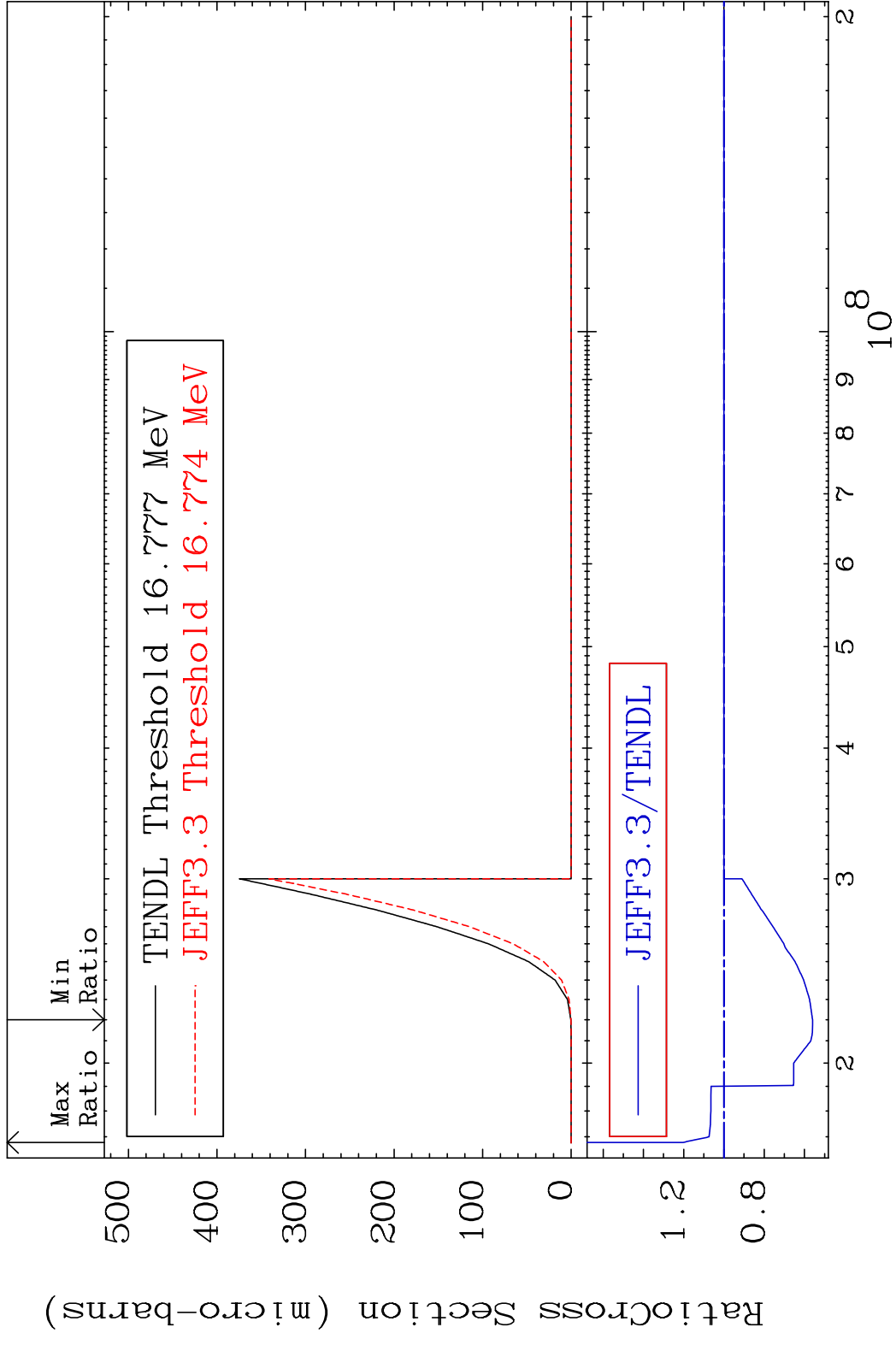
Cross Section -80.47 To 0.000 %



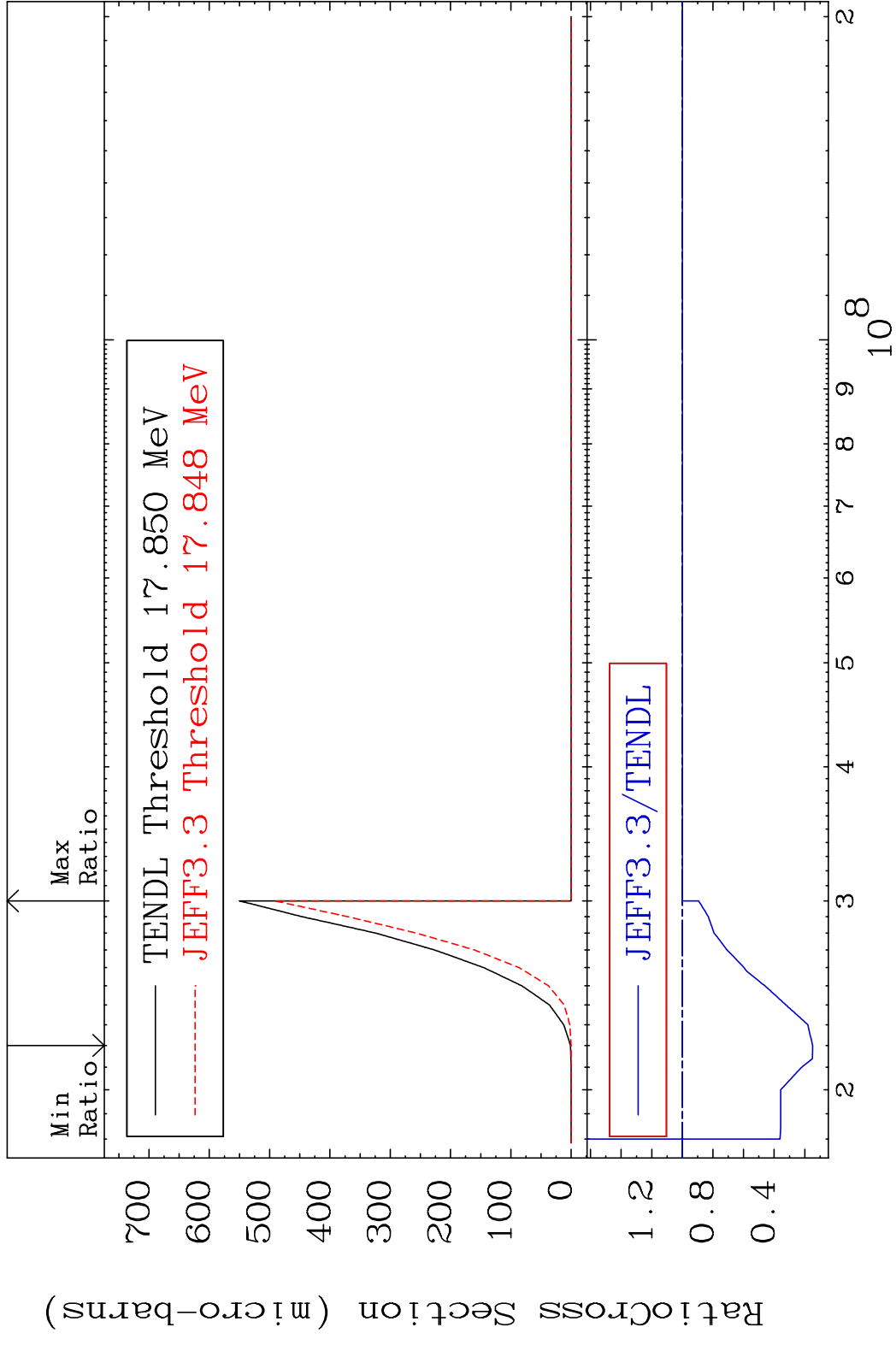
MAT 2522 (n,p) α 25-Mn-54
 Cross Section -63.61 To 7.249 %



MAT 2522 (n,p) d 25-Mn-54
 Cross Section -44.02 To 20.66 %



MAT 2522 (n,p) t 25-Mn-54
 Cross Section -85.08 To 0.000 %

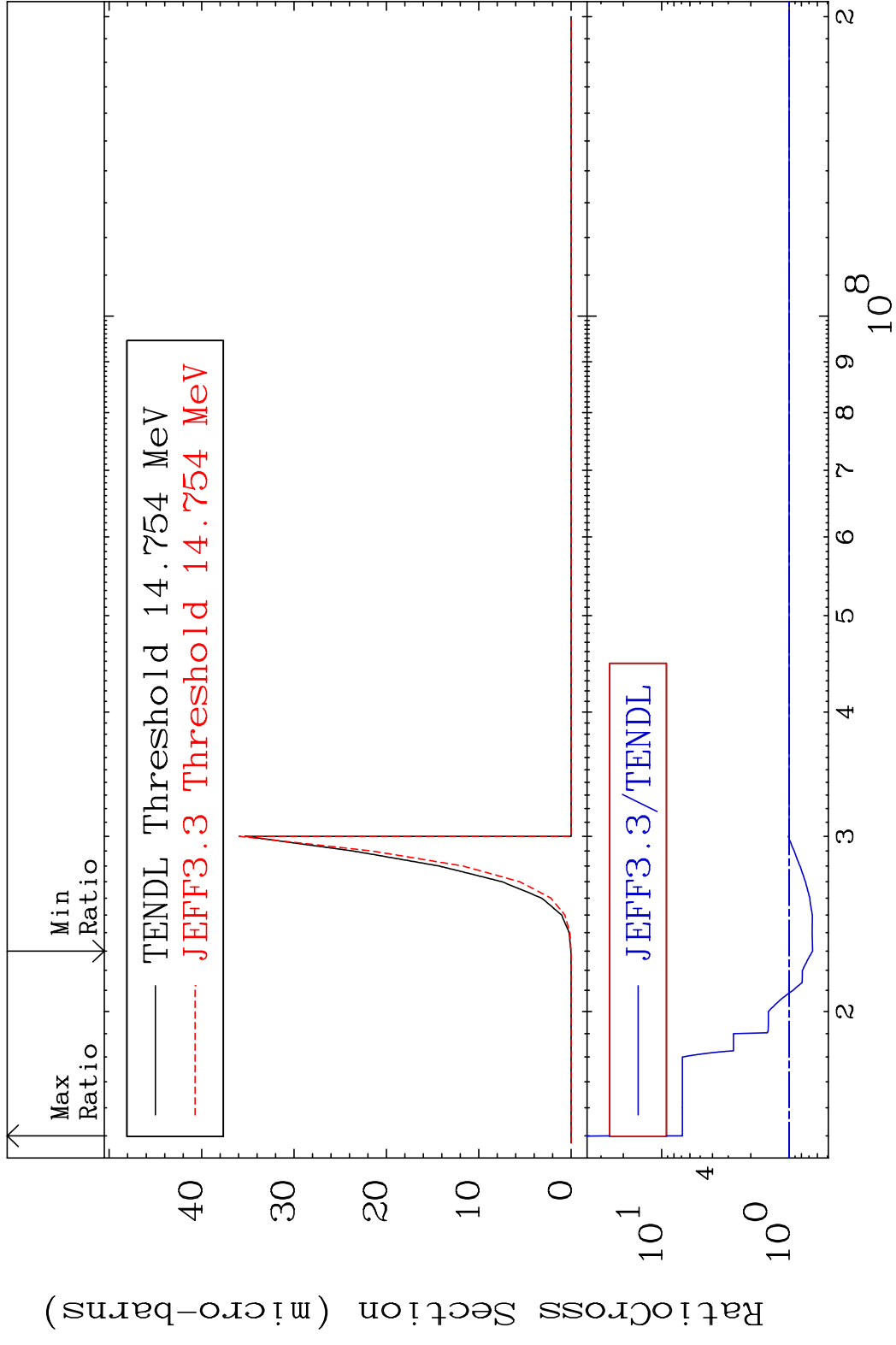


MAT 2522

(n,d) α

25-Mn-54

Cross Section -34.51 To 588.7 %



60

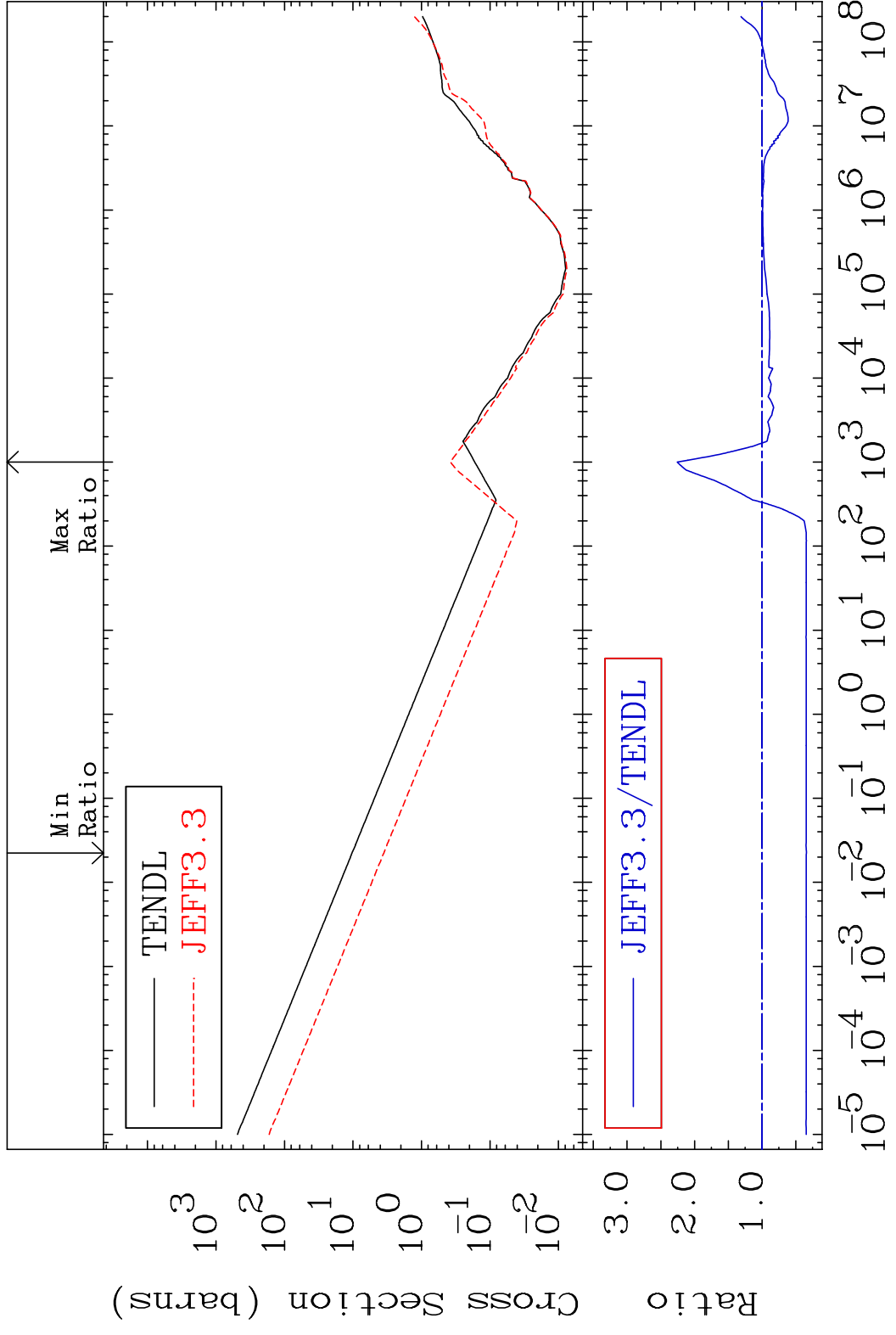
Incident Energy (eV)

25-Mn-54

MAT 2522

Hydrogen Production
Cross Section -65.71 To 125.8 %

25-Mn-54



61

Incident Energy (eV)

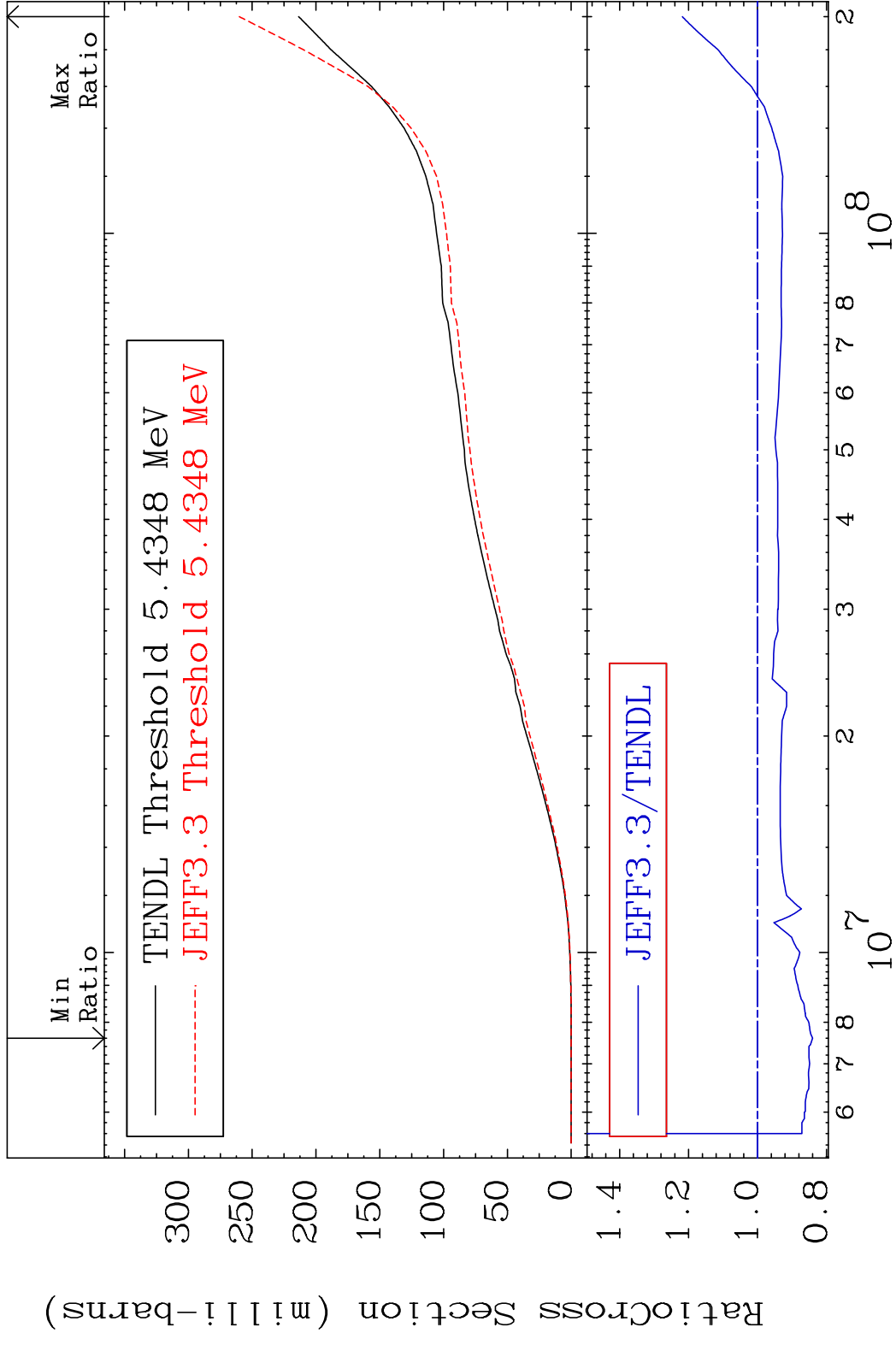
25-Mn-54

MAT 2522

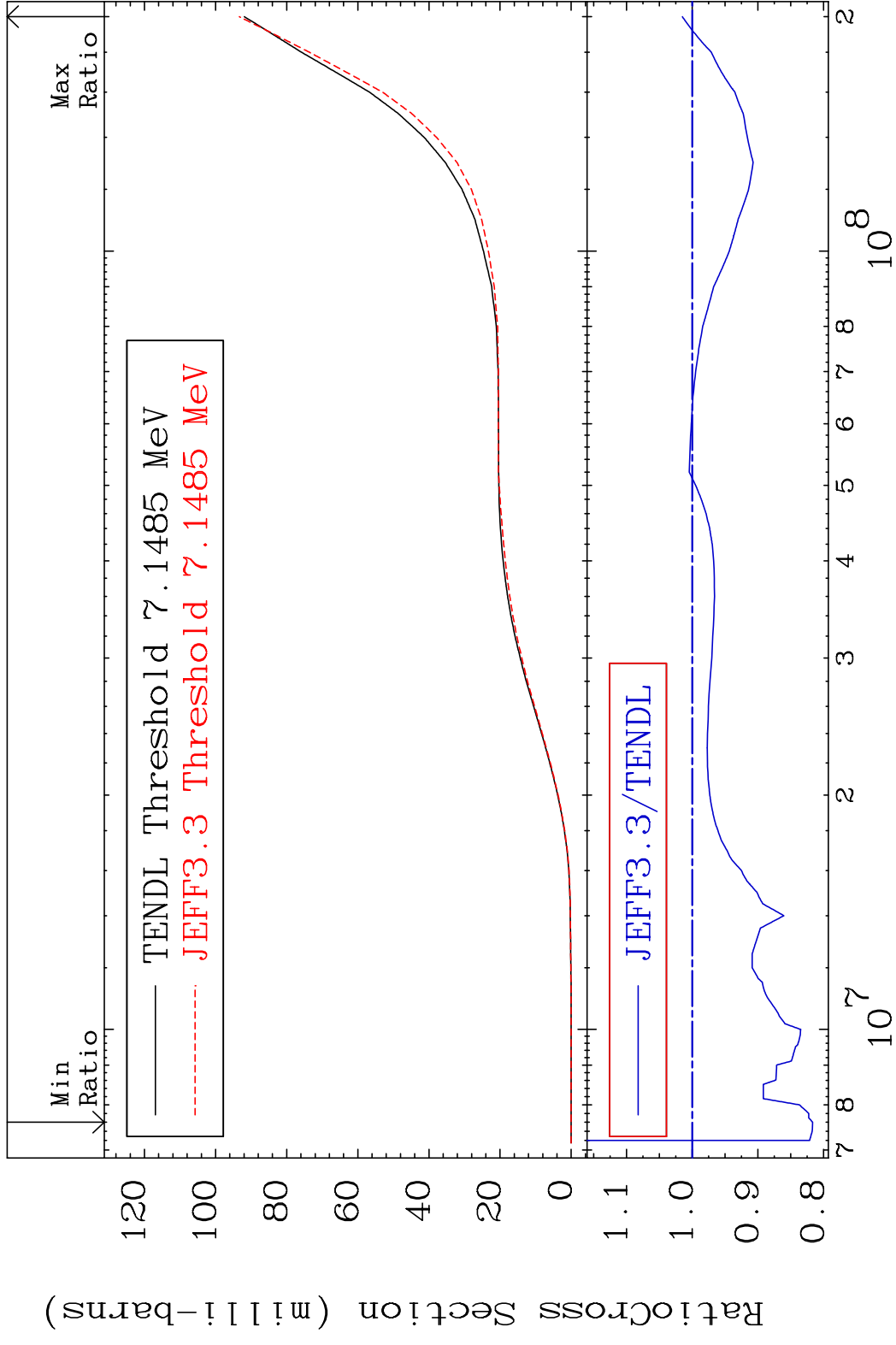
Deuterium Production

²⁵Mn-54

Cross Section -15.96 To 21.80 %



MAT 2522 Tritium Production 25-Mn-54
 Cross Section -18.33 To 1.505 %



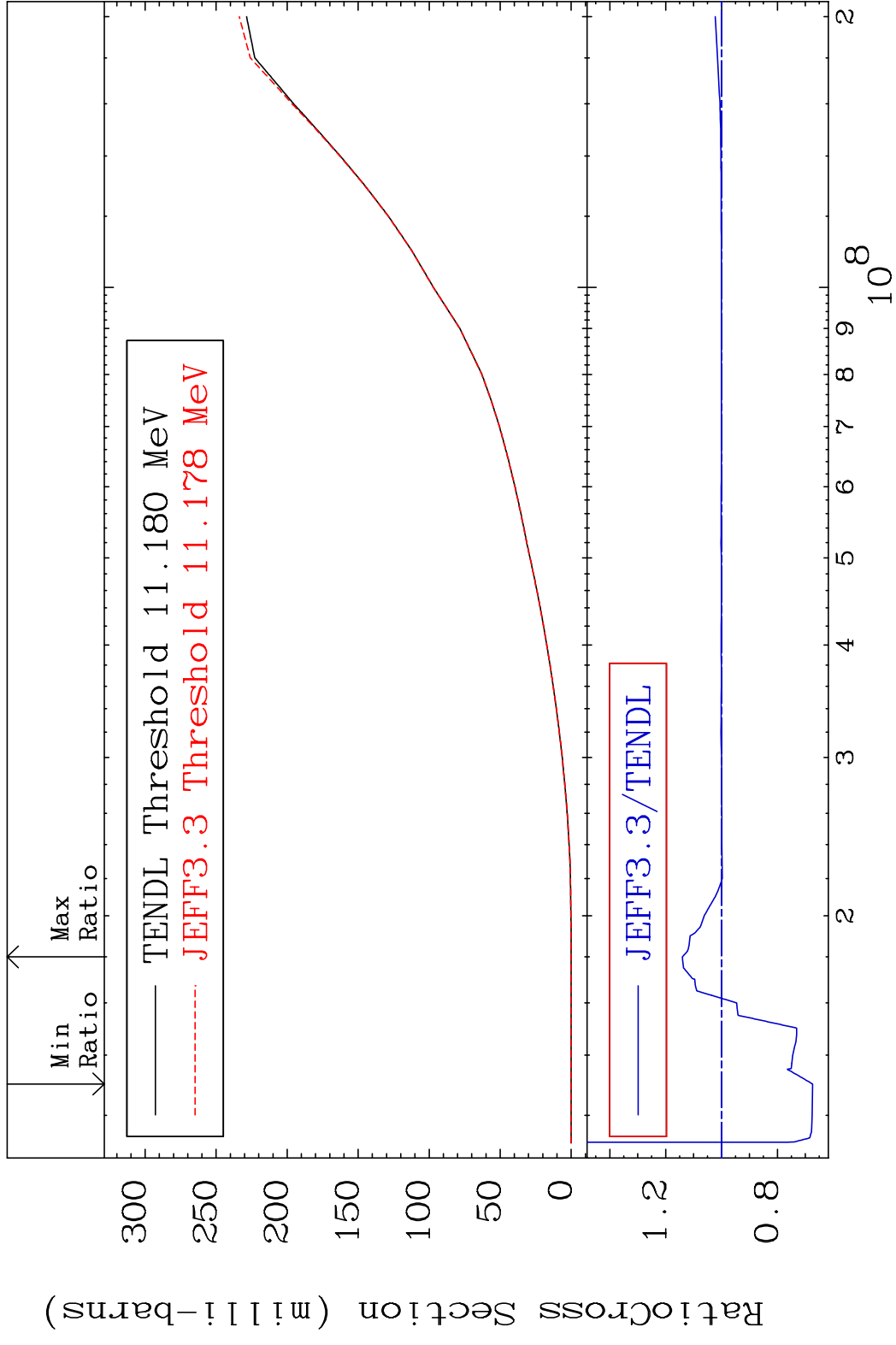
63 Incident Energy (eV) 25-Mn-54

MAT 2522

He-3 Production

²⁵Mn-54

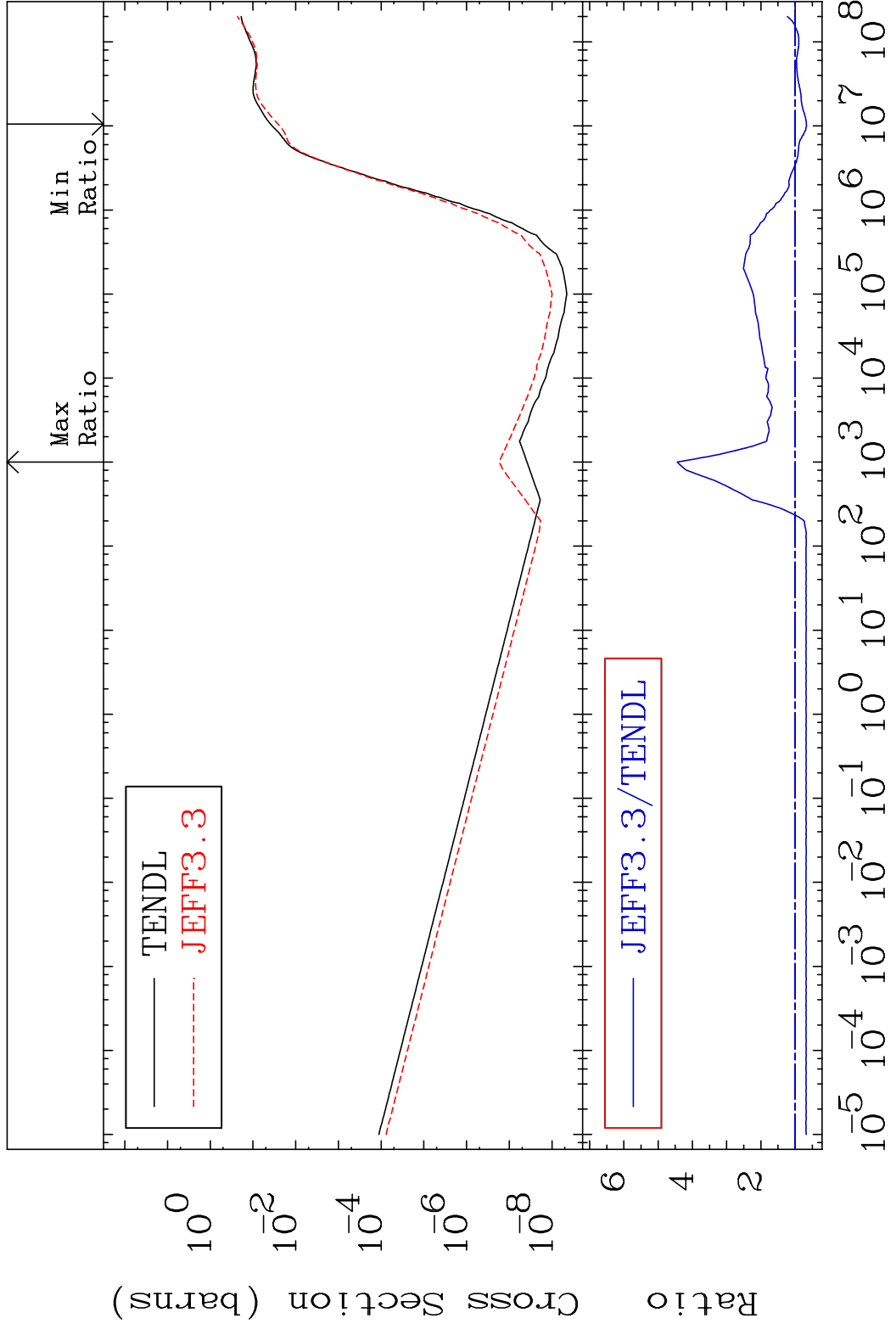
Cross Section -32.58 To 14.02 %



MAT 2522

He-4 Production
Cross Section

25-Mn-54
-32.90 To 344.3 %



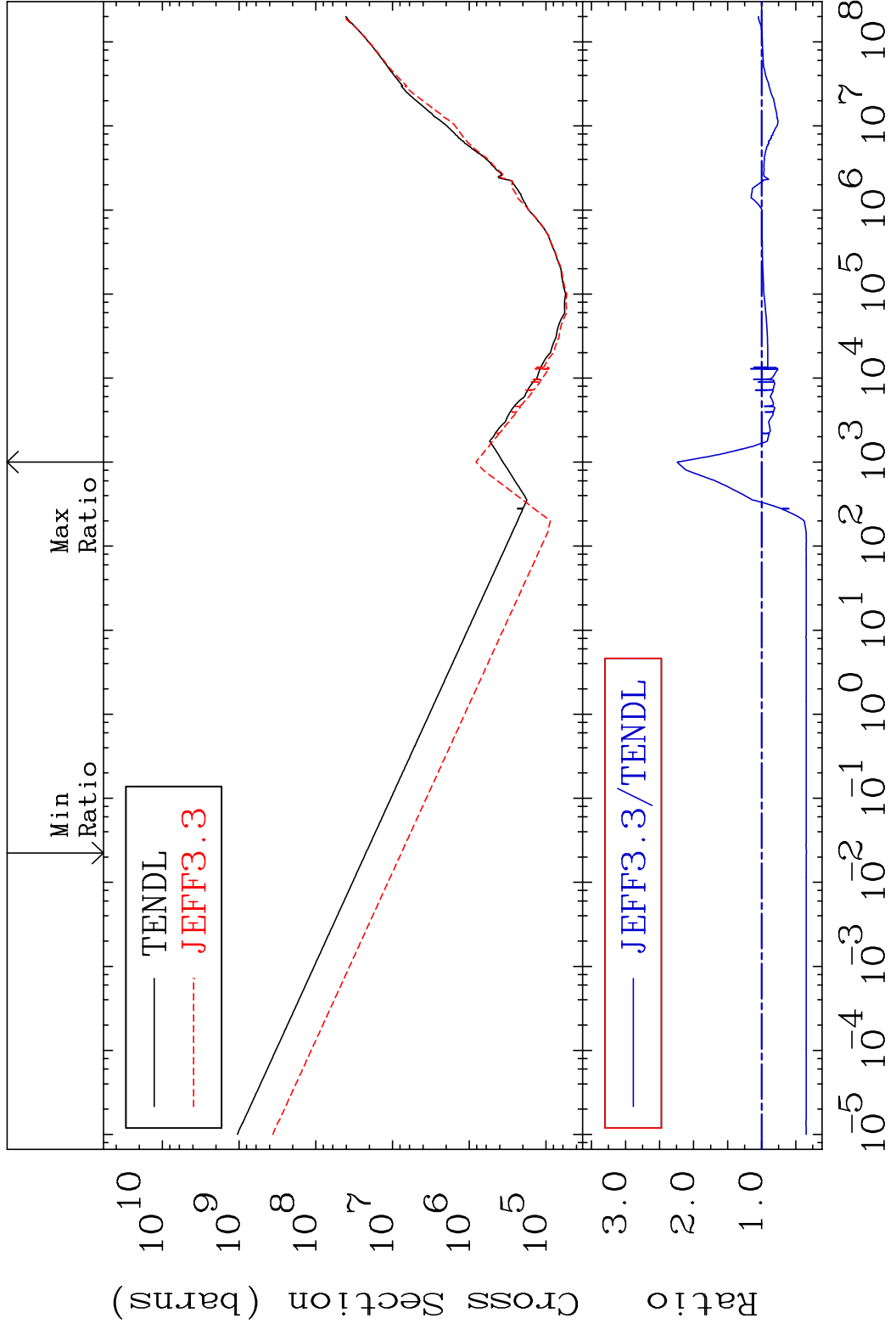
65

Incident Energy (eV)

25-Mn-54

MAT 2522

Kerma total (eV-barns) 25-Mn-54
Cross Section -65.69 To 124.1 %



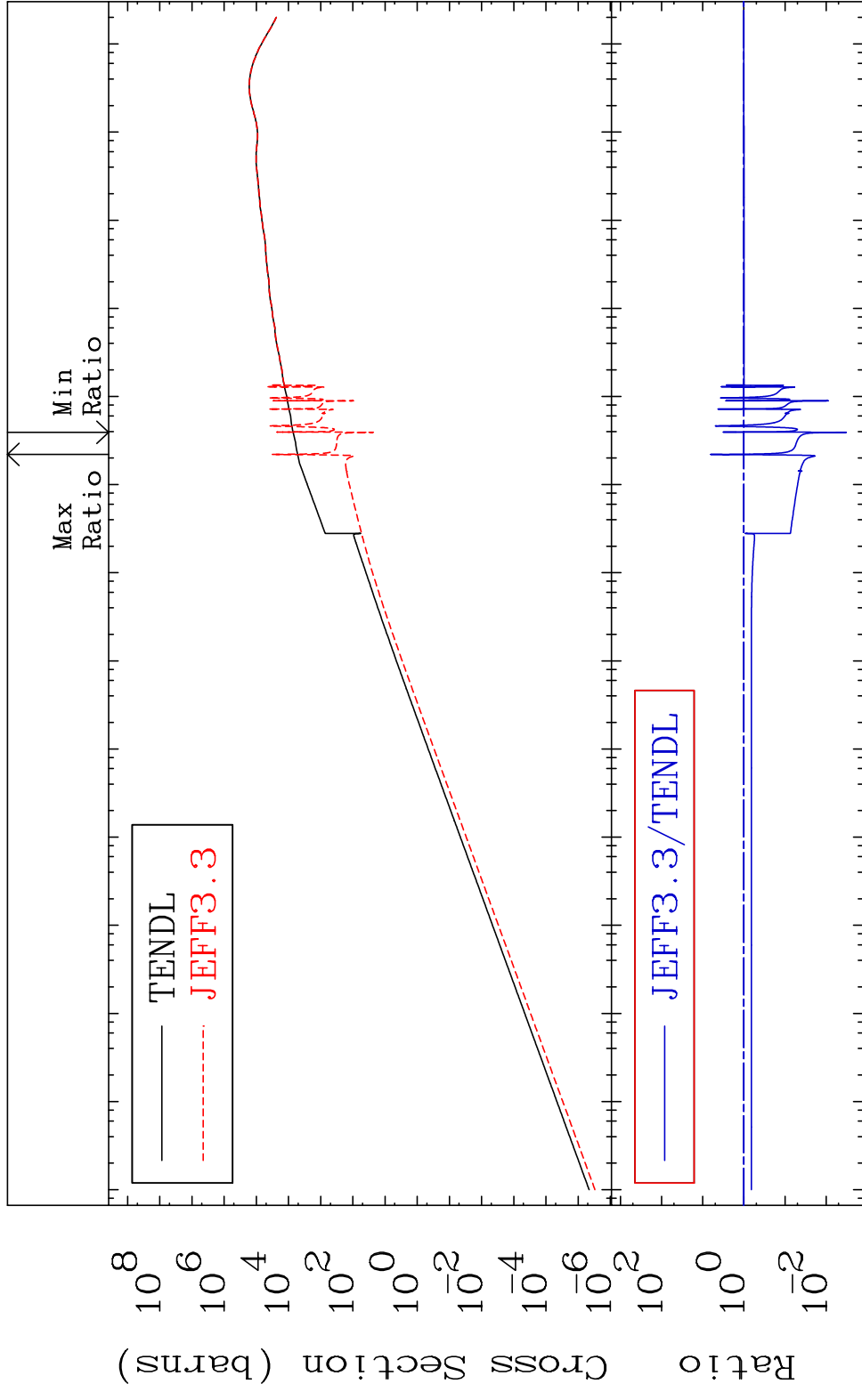
66

Incident Energy (eV)

25-Mn-54

MAT 2522

Kerma elastic Cross Section -99.68 To 540.9 %
25-Mn-54

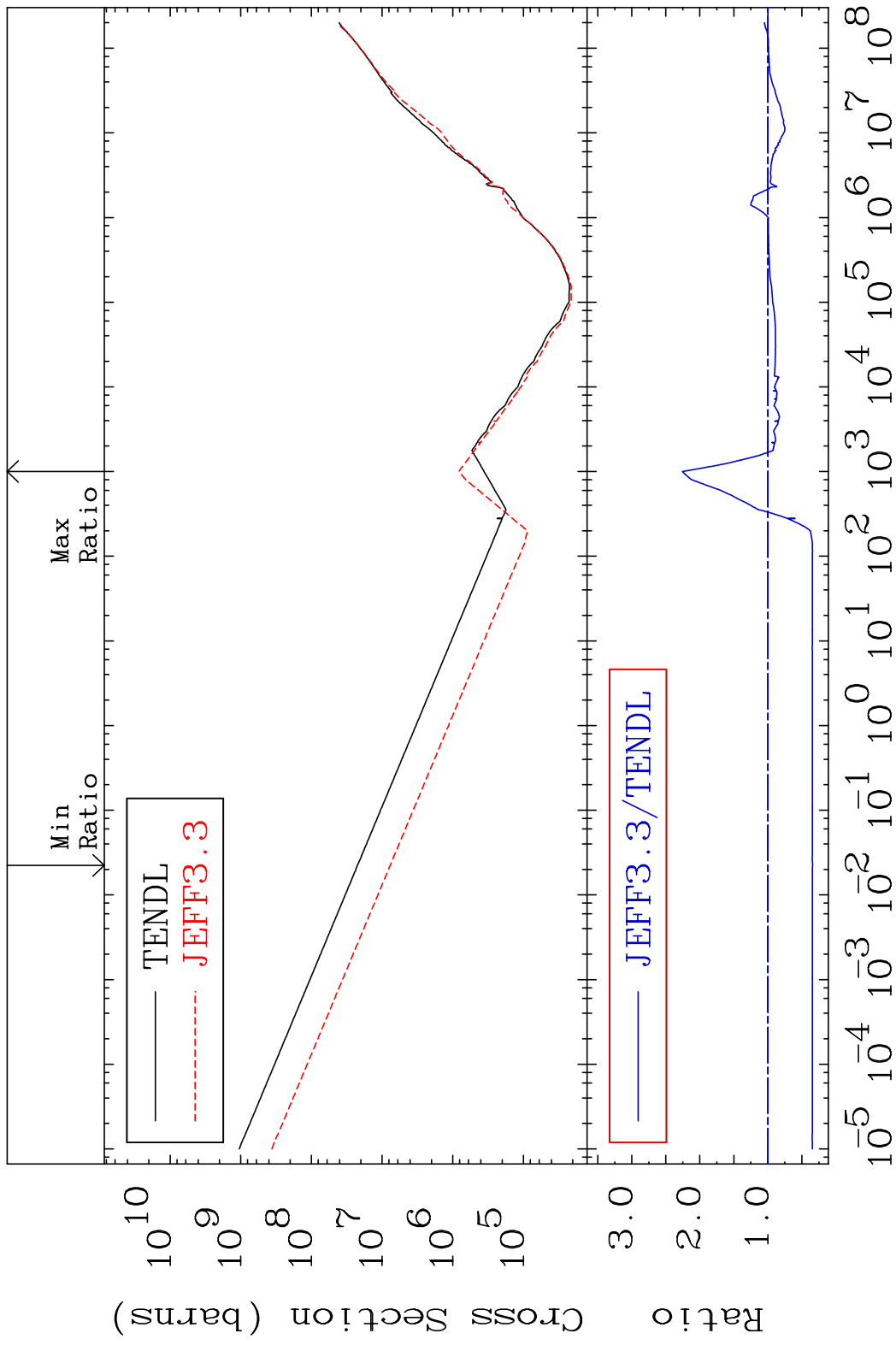


67

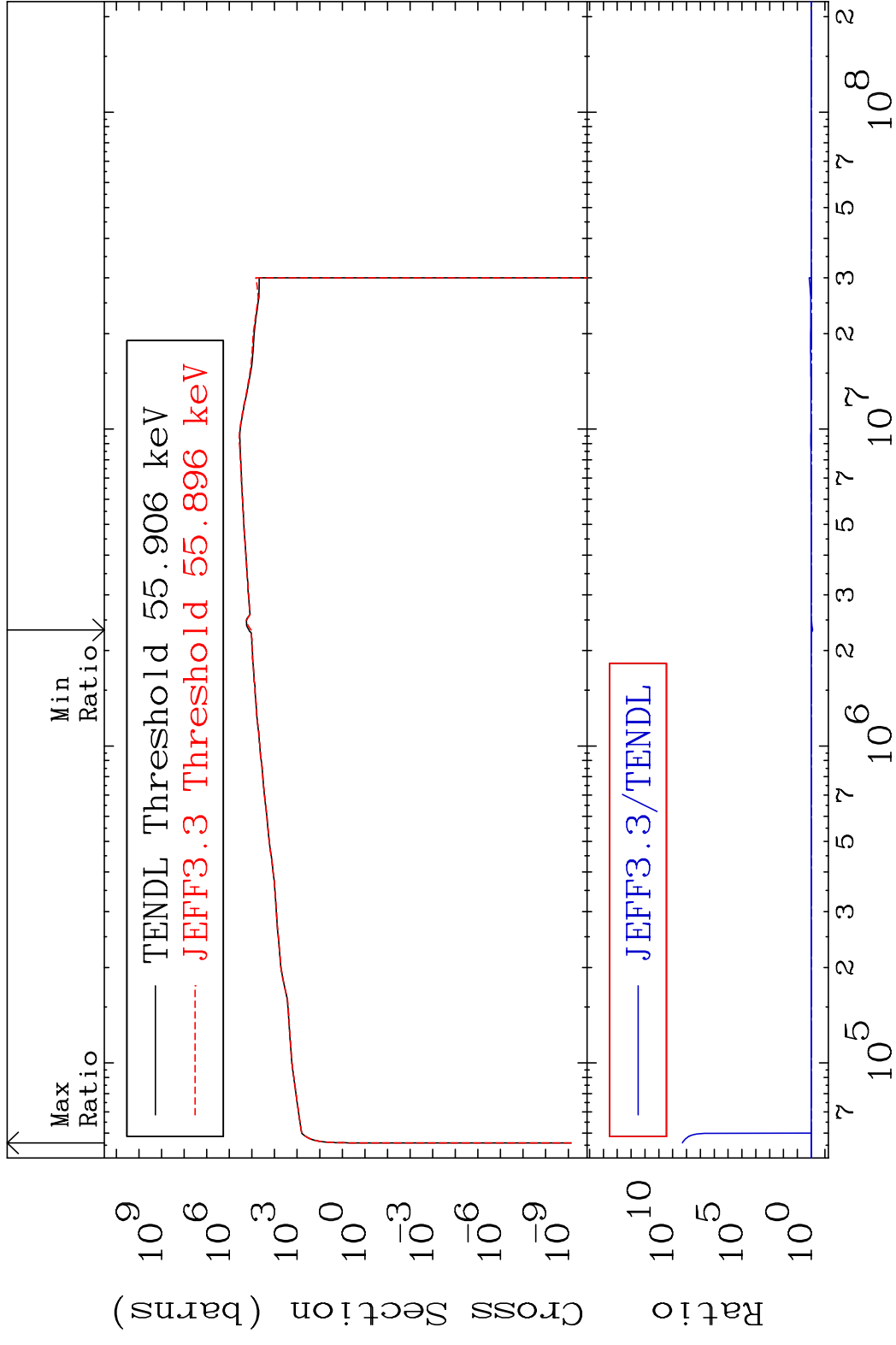
Incident Energy (eV)

25-Mn-54

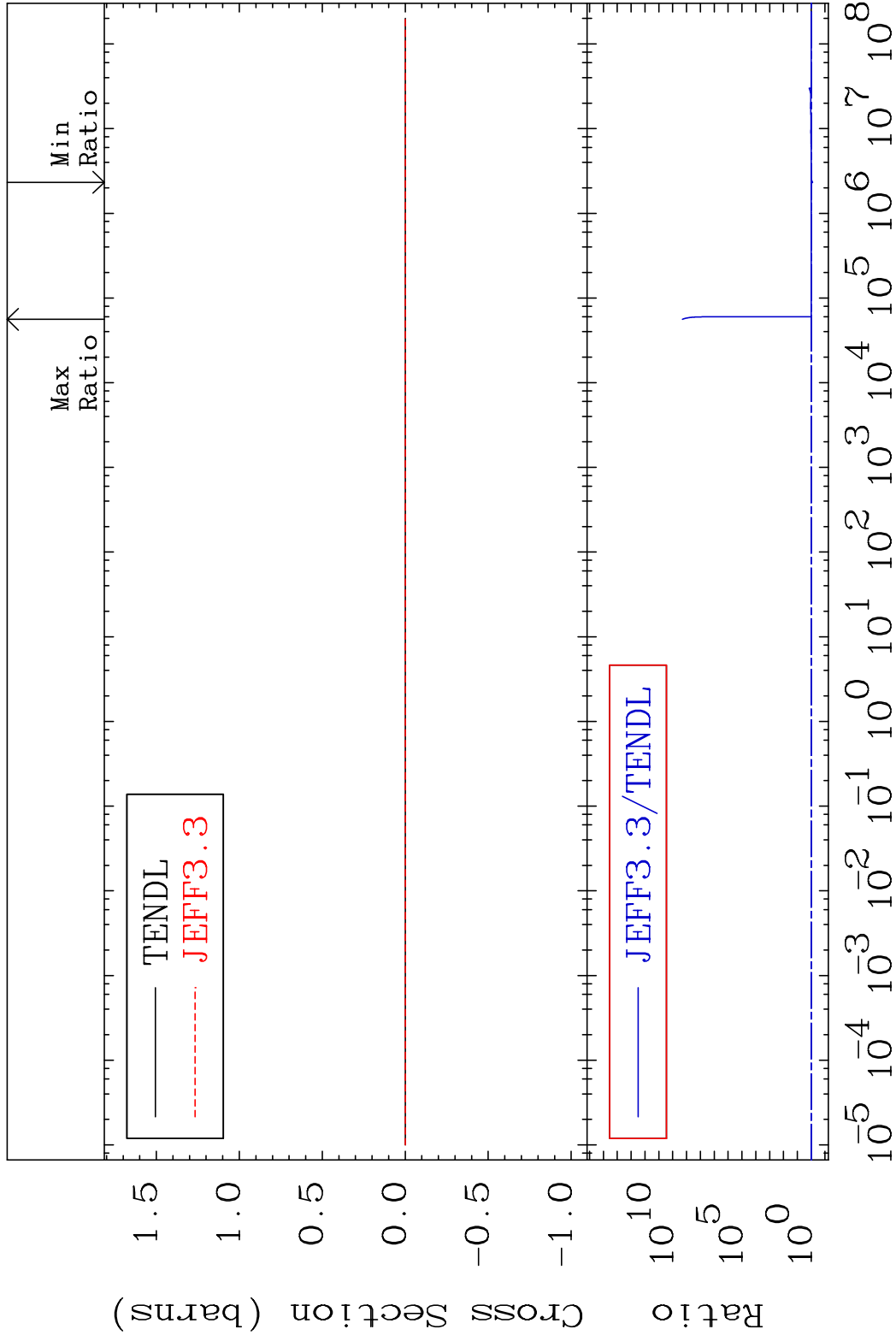
MAT 2522 Kerma non-elastic (all but mt2) 25-Mn-54
 Cross Section -65.69 To 125.7 %



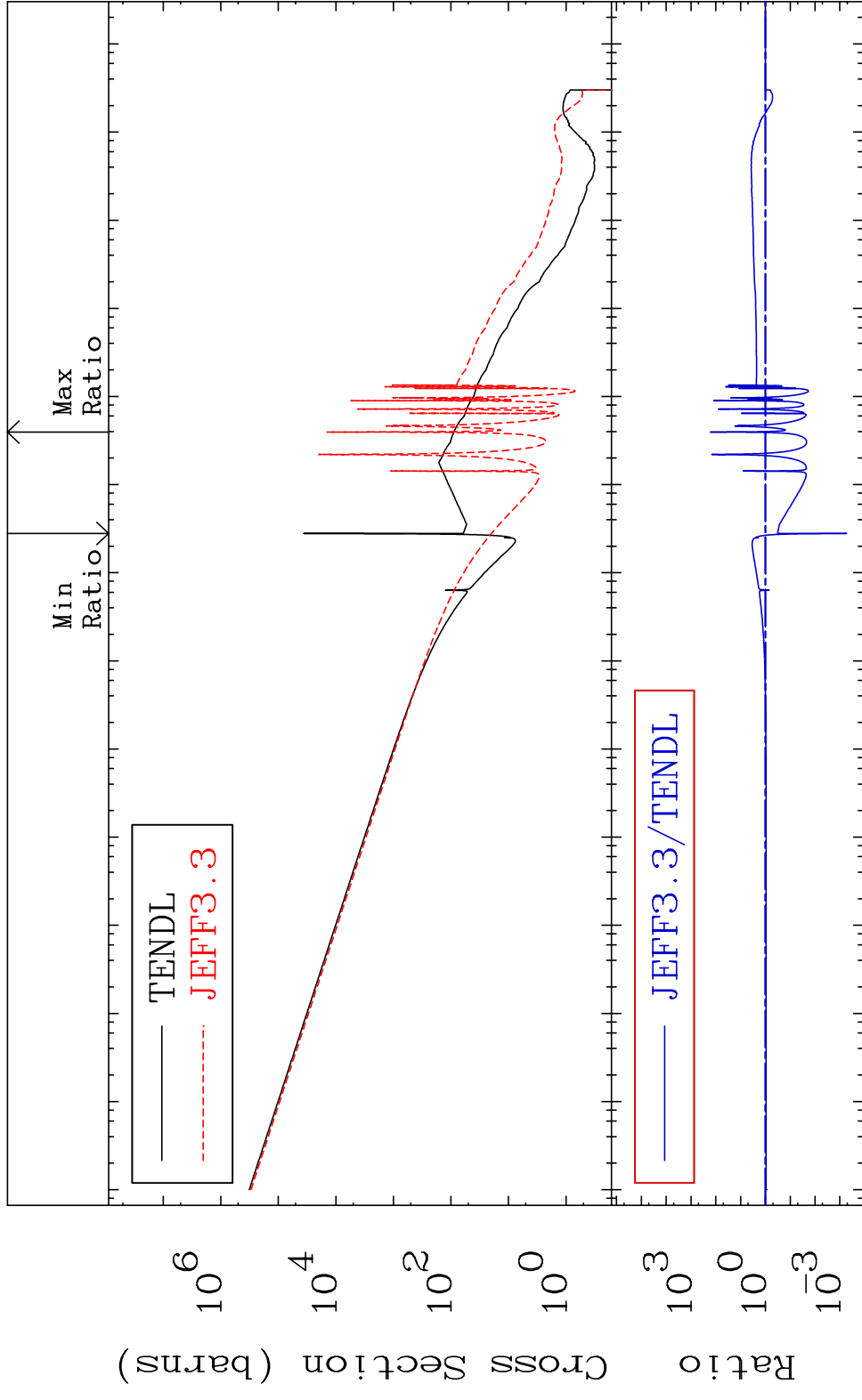
MAT 2522 Kerma inelastic (mt51-91) 25-Mn-54
 Cross Section -20.44 To 9999. %



MAT 2522 Kerma fission (mt18 or mt19-20-21-38) 25-Mn-54
 Cross Section -20.44 To 9999. %

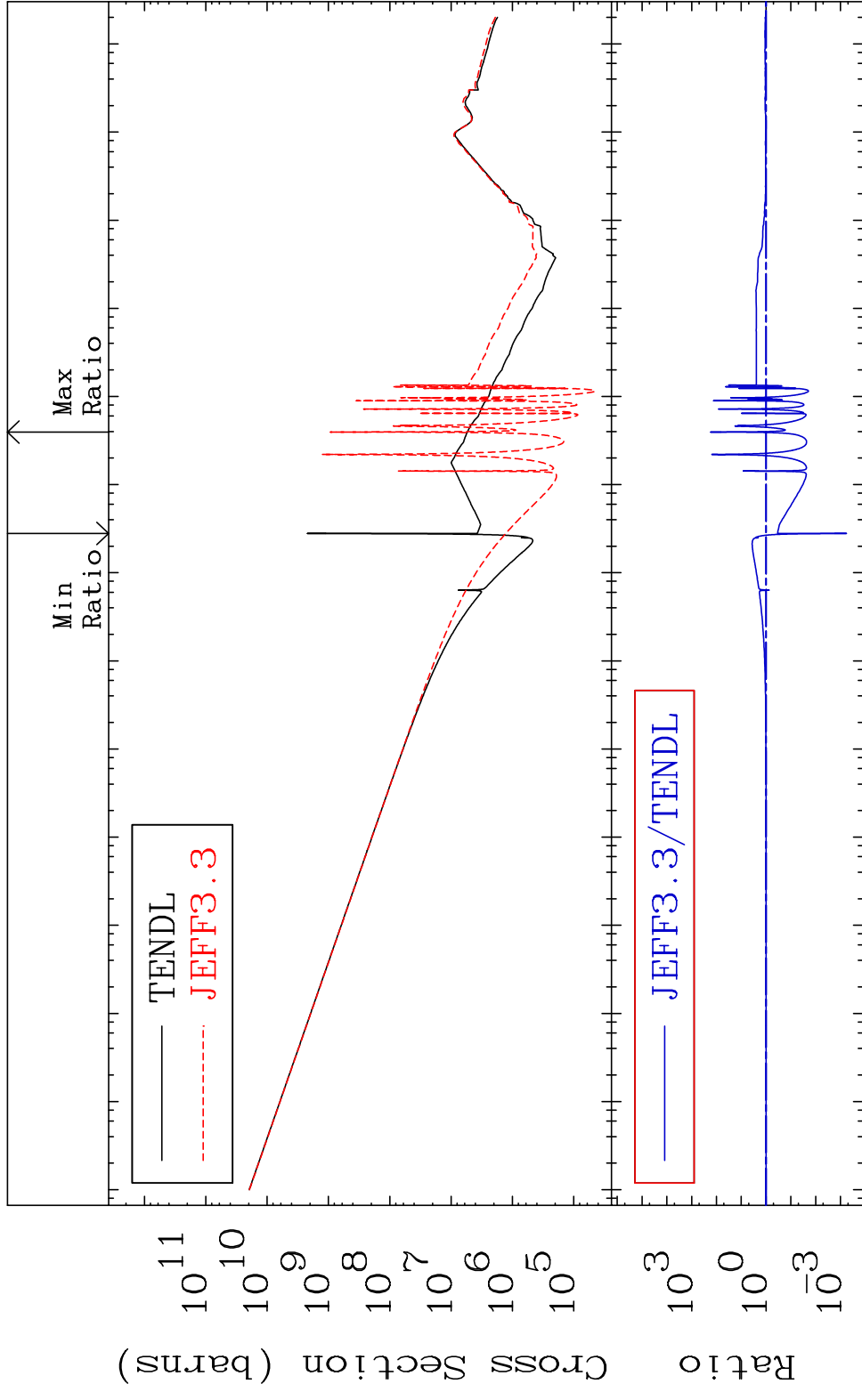


MAT 2522 Kerma capture (mt102) 25-Mn-54
 Cross Section -99.95 To 9999. %



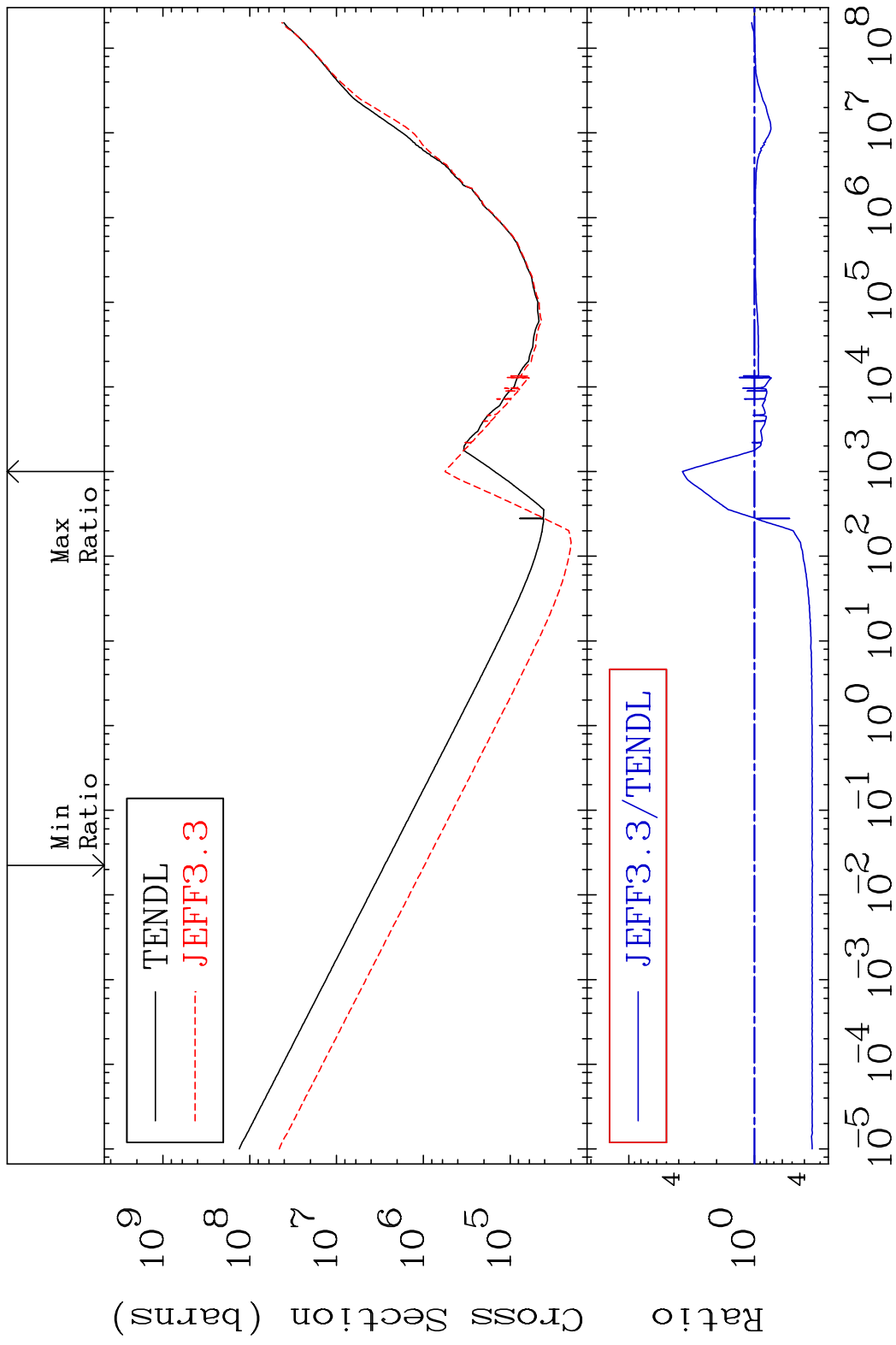
71 Incident Energy (eV) 25-Mn-54

MAT 2522 Total photon (eV-barns) 25-Mn-54
 Cross Section -99.94 To 9999. %



72 Incident Energy (eV) 25-Mn-54

MAT 2522 Total kinematic kerma (high limit) 25-Mn-54
 Cross Section -65.57 To 274.1 %

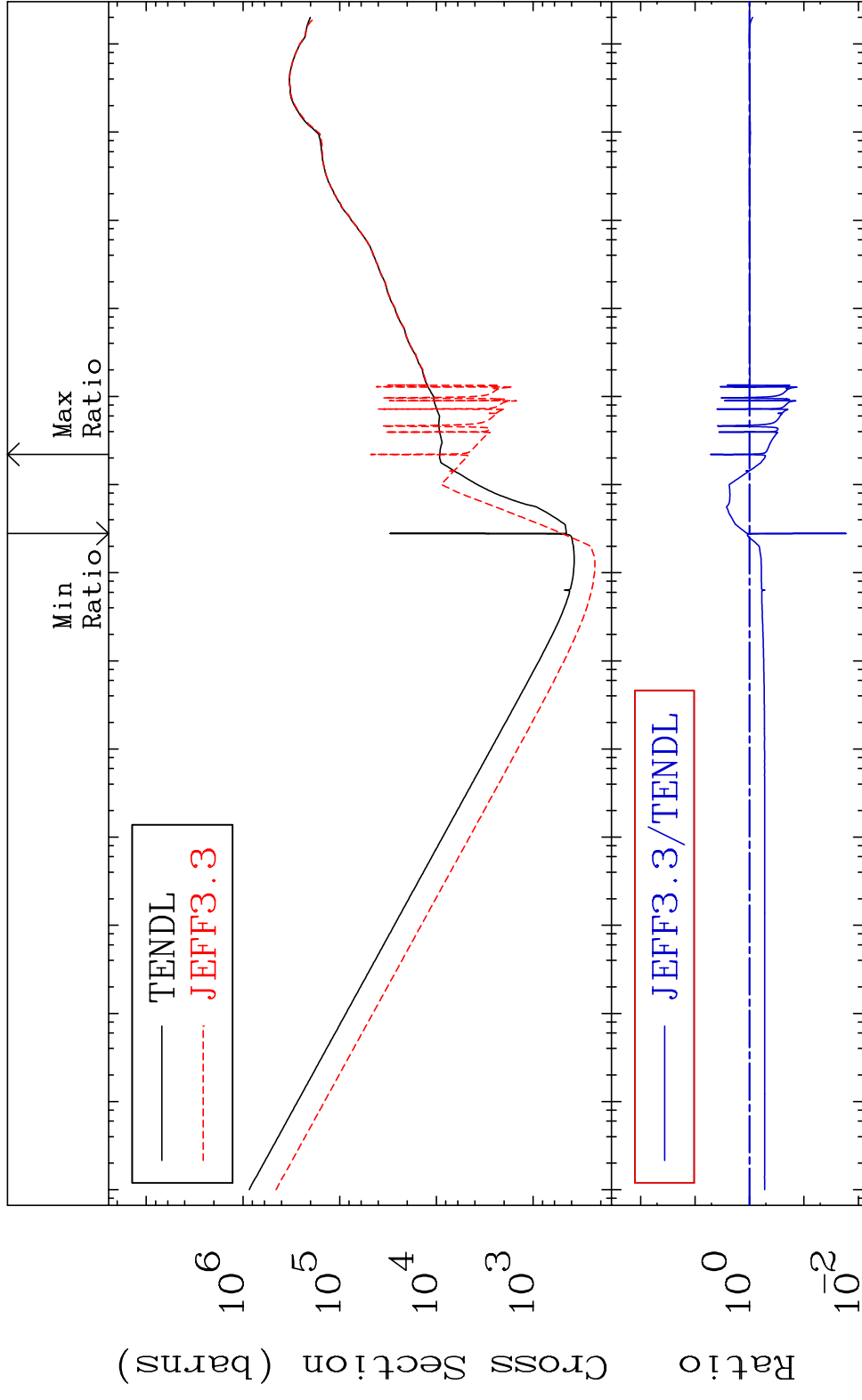


MAT 2522

Dpa total (eV-barns)

25-Mn-54

Cross Section -98.34 To 416.1 %



74

Incident Energy (eV)

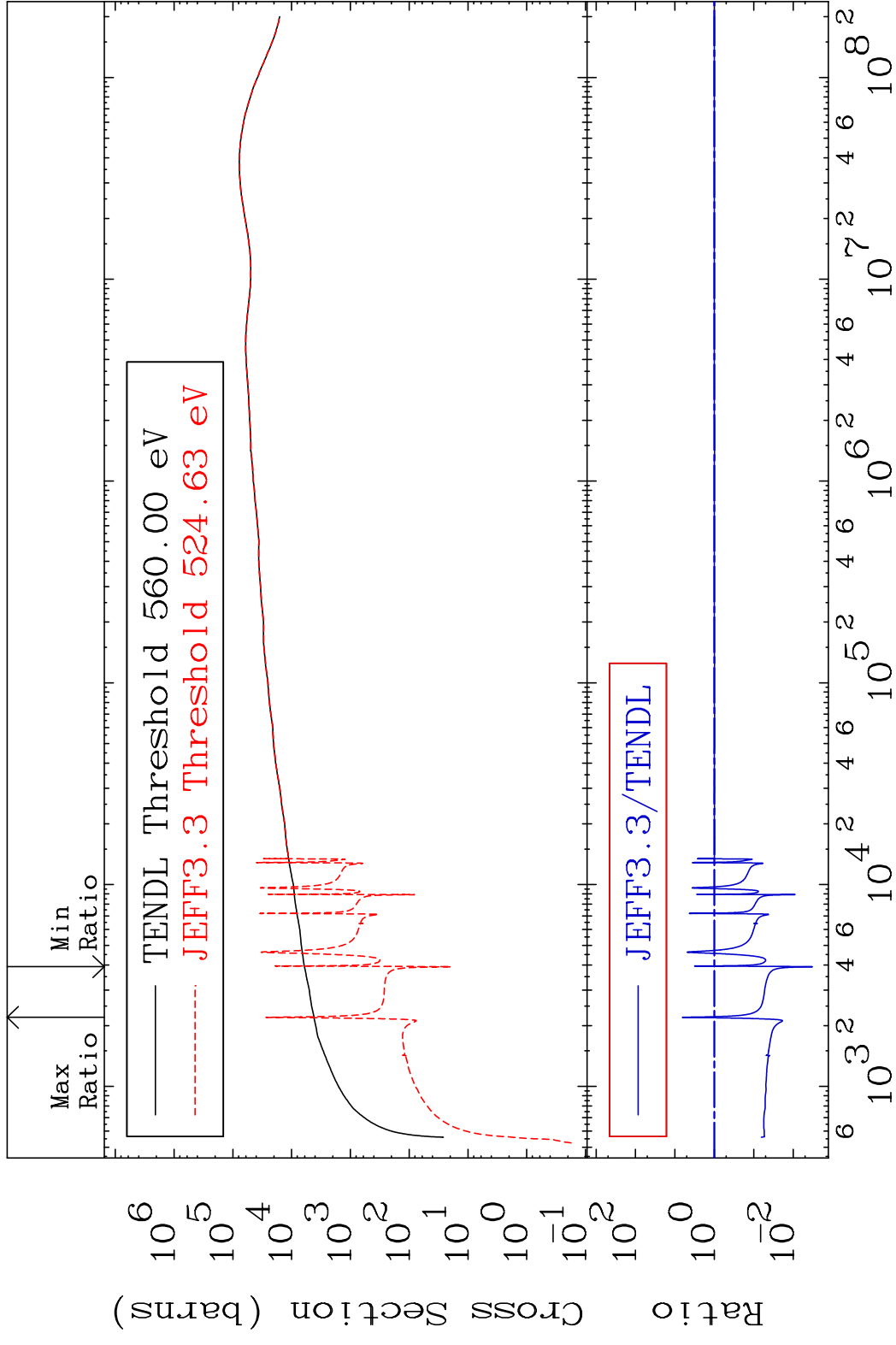
25-Mn-54

MAT 2522

Dpa elastic (mt2)

25-Mn-54

Cross Section -99.68 To 547.1 %

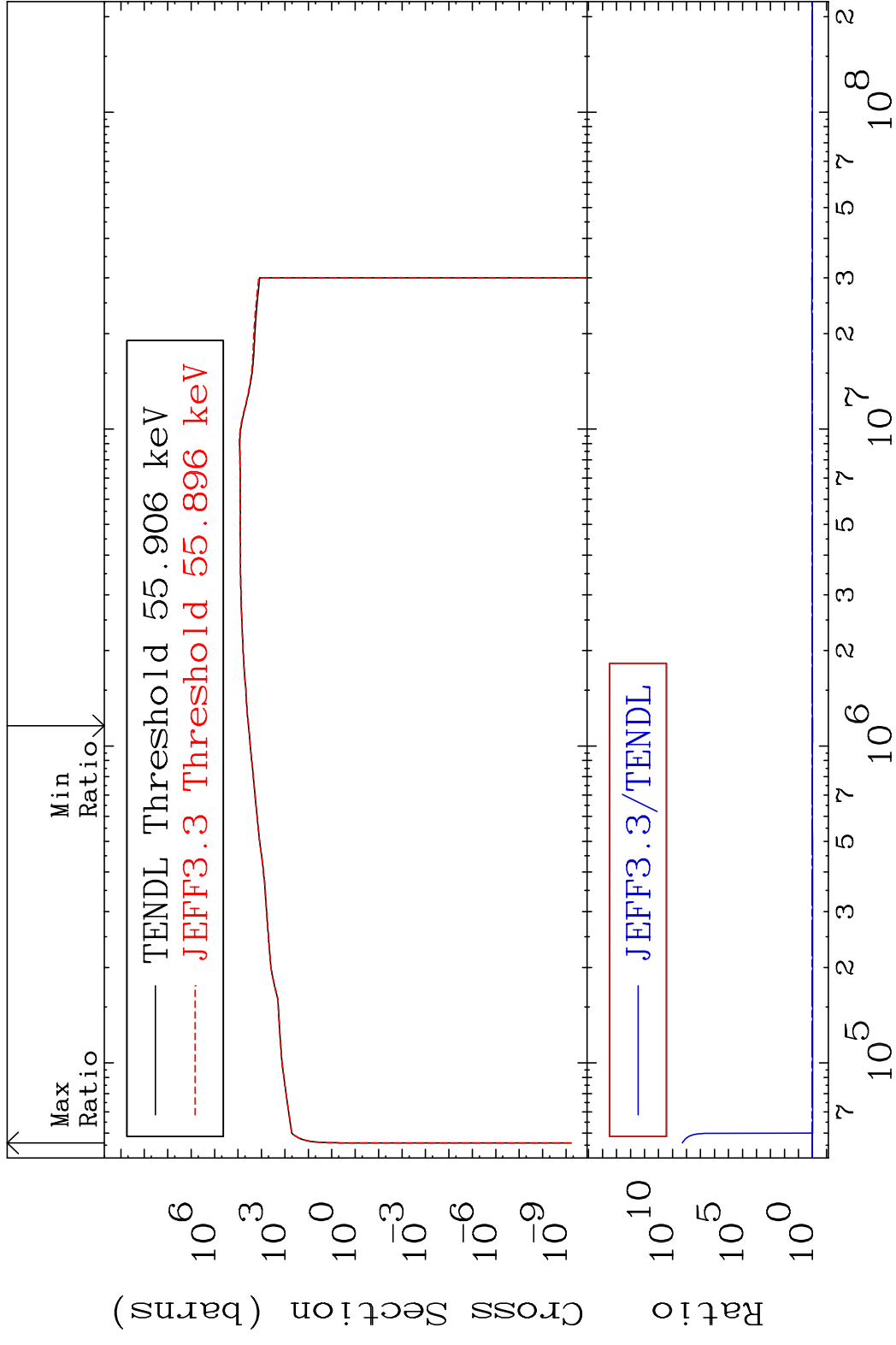


75

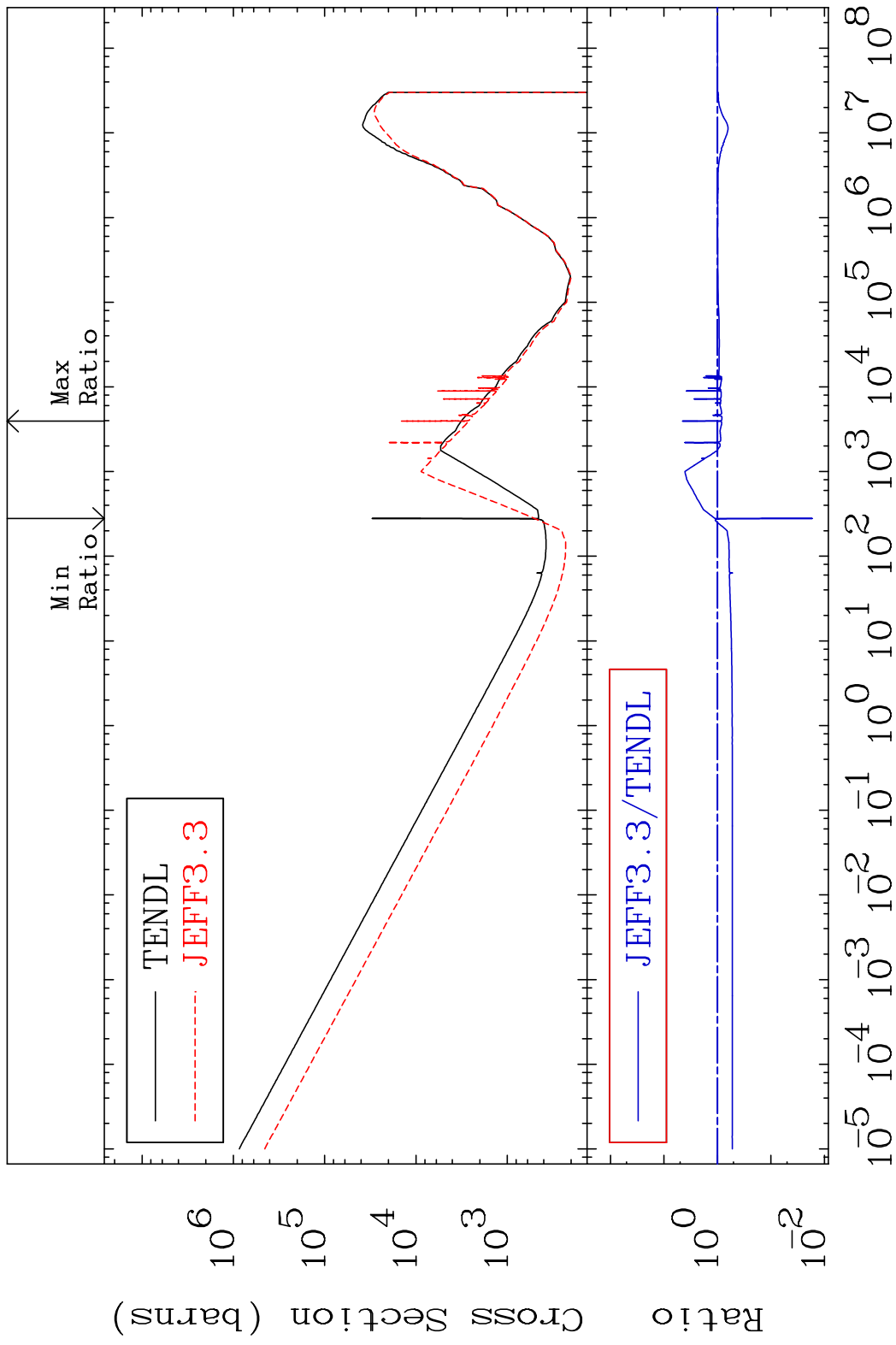
Incident Energy (eV)

25-Mn-54

MAT 2522 Dpa inelastic (mt51-91) 25-Mn-54
 Cross Section -1.597 To 9999. %

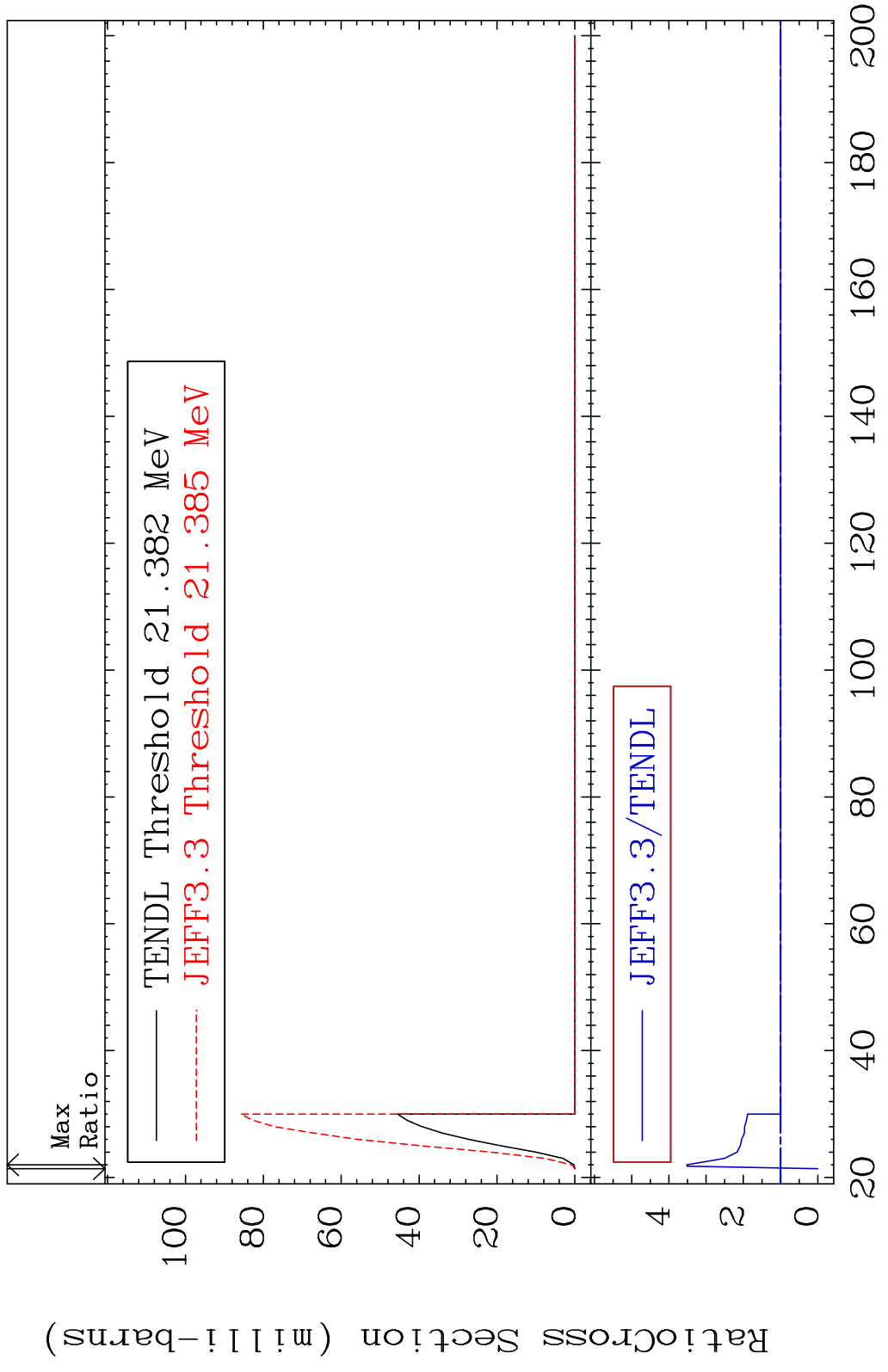


MAT 2522 Dpa disappearance (mt102 -120) 25-Mn-54
 Cross Section -98.34 To 353.1 %

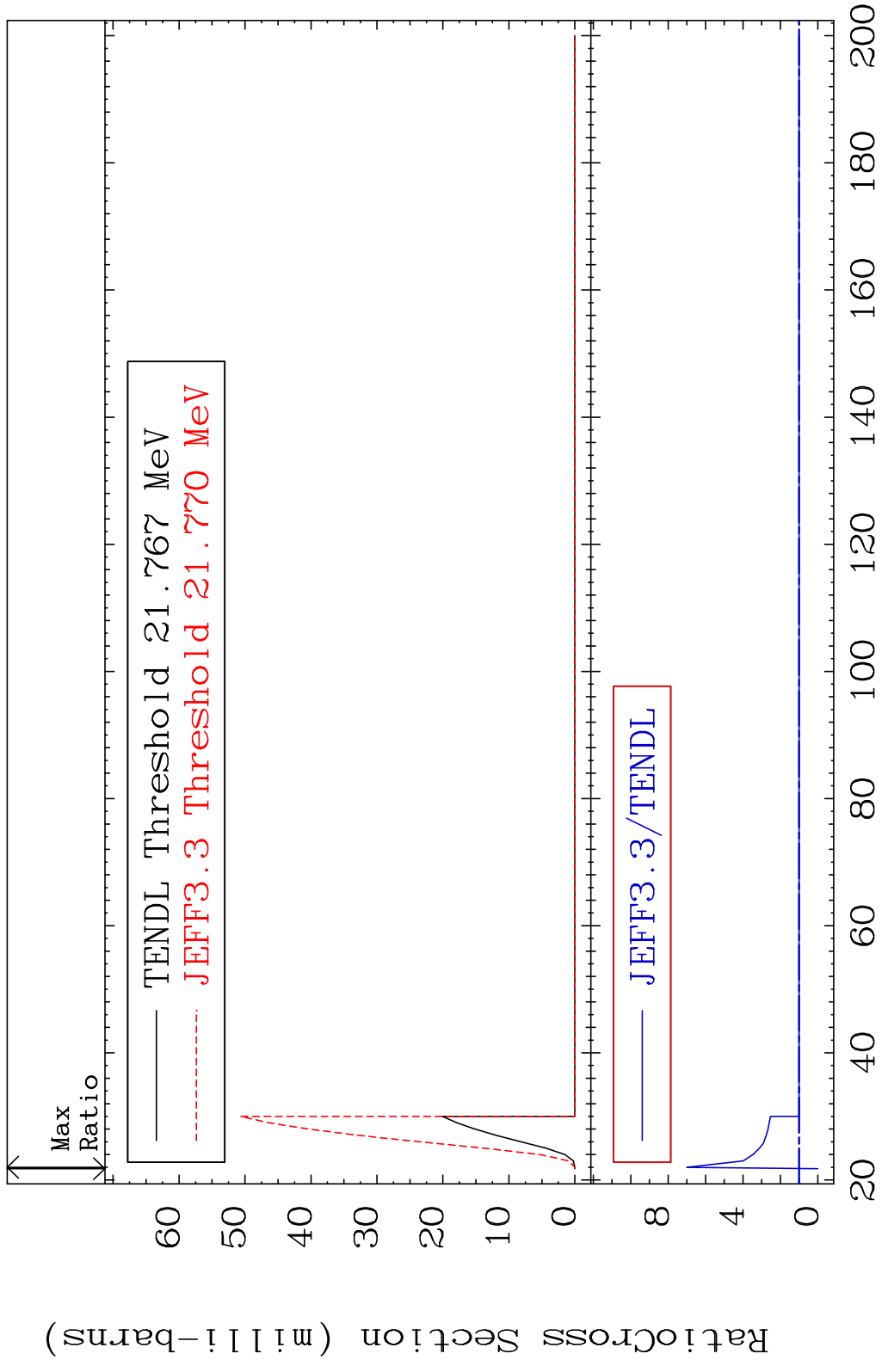


77 Incident Energy (eV) 25-Mn-54

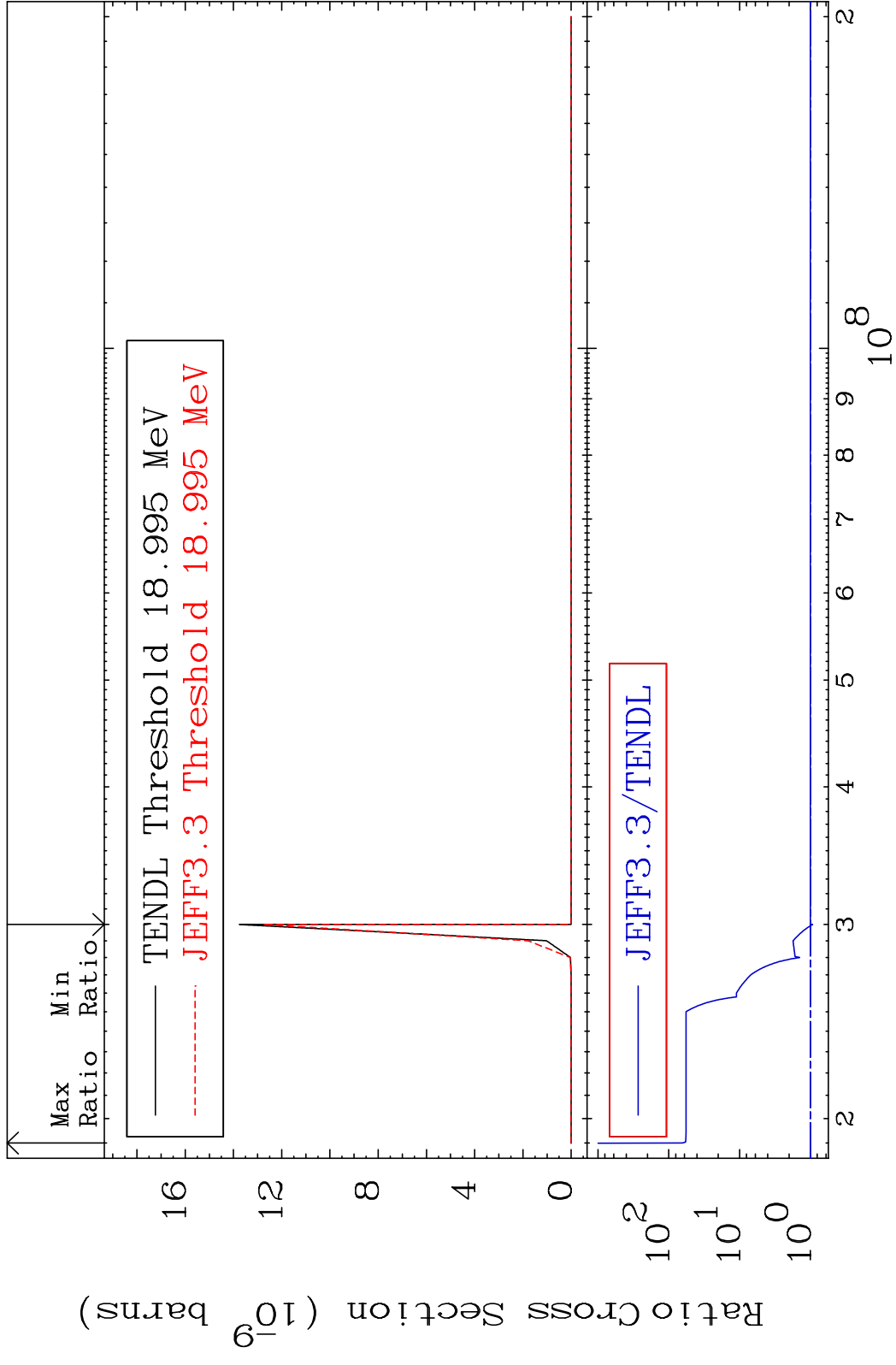
MAT 2522 (n,3n):25-Mn-52g 25-Mn-54
 Radionuclide Production Cross Section 1800 d to 252.1 %



MAT 2522 (n, 3n) : 25-Mn-52m1 25-Mn-54
 Radionuclide Production Cross Section 1800.0 dno 600.7 %



MAT 2522 (n, n') $2\alpha:21\text{-Sc-46g}$ 25-Mn-54
 Radionuclide Production Cross Section Ratio 6337. %



80 Incident Energy (eV) 25-Mn-54

