

Program Complot
(Version 2021-1)

by

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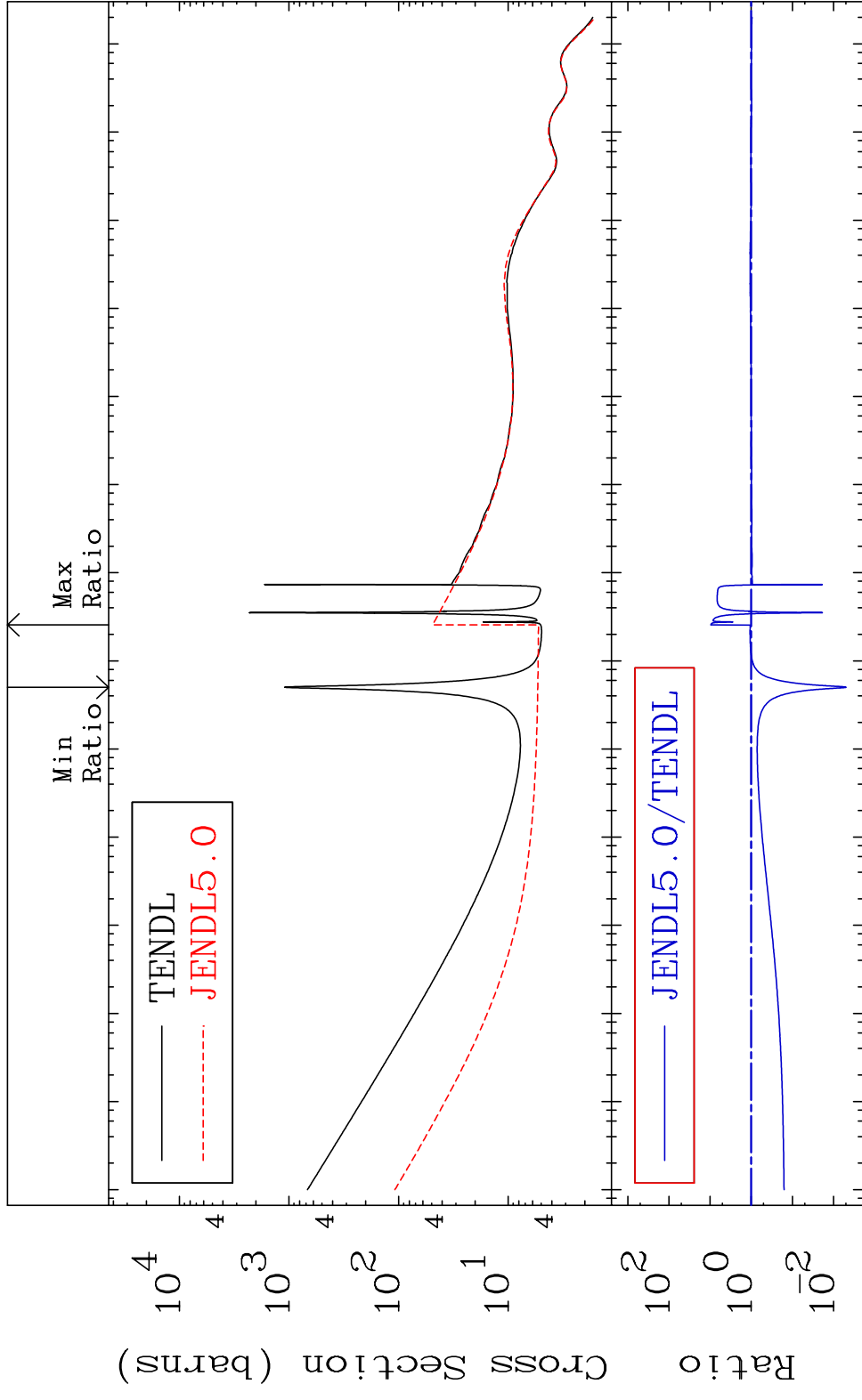
Press Mouse Button to Start

MAT 4428

44-Ru-97

Total

Cross Section -99.51 To 865.2 %



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

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

1 Incident Energy (eV) 44-Ru-97

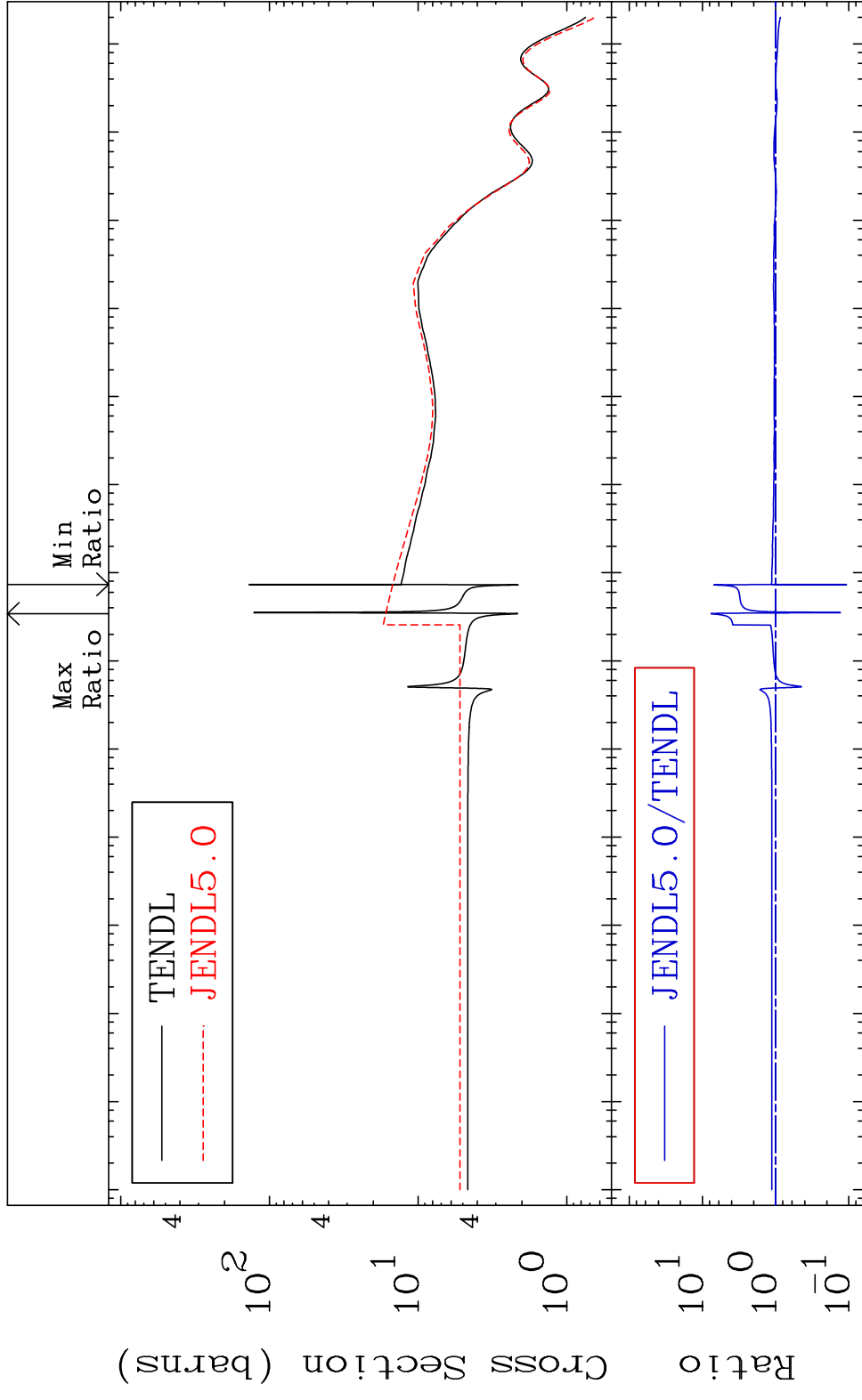
MAT 4428

Elastic

44-Ru-97

Cross Section

-89.17 To 672.0 %



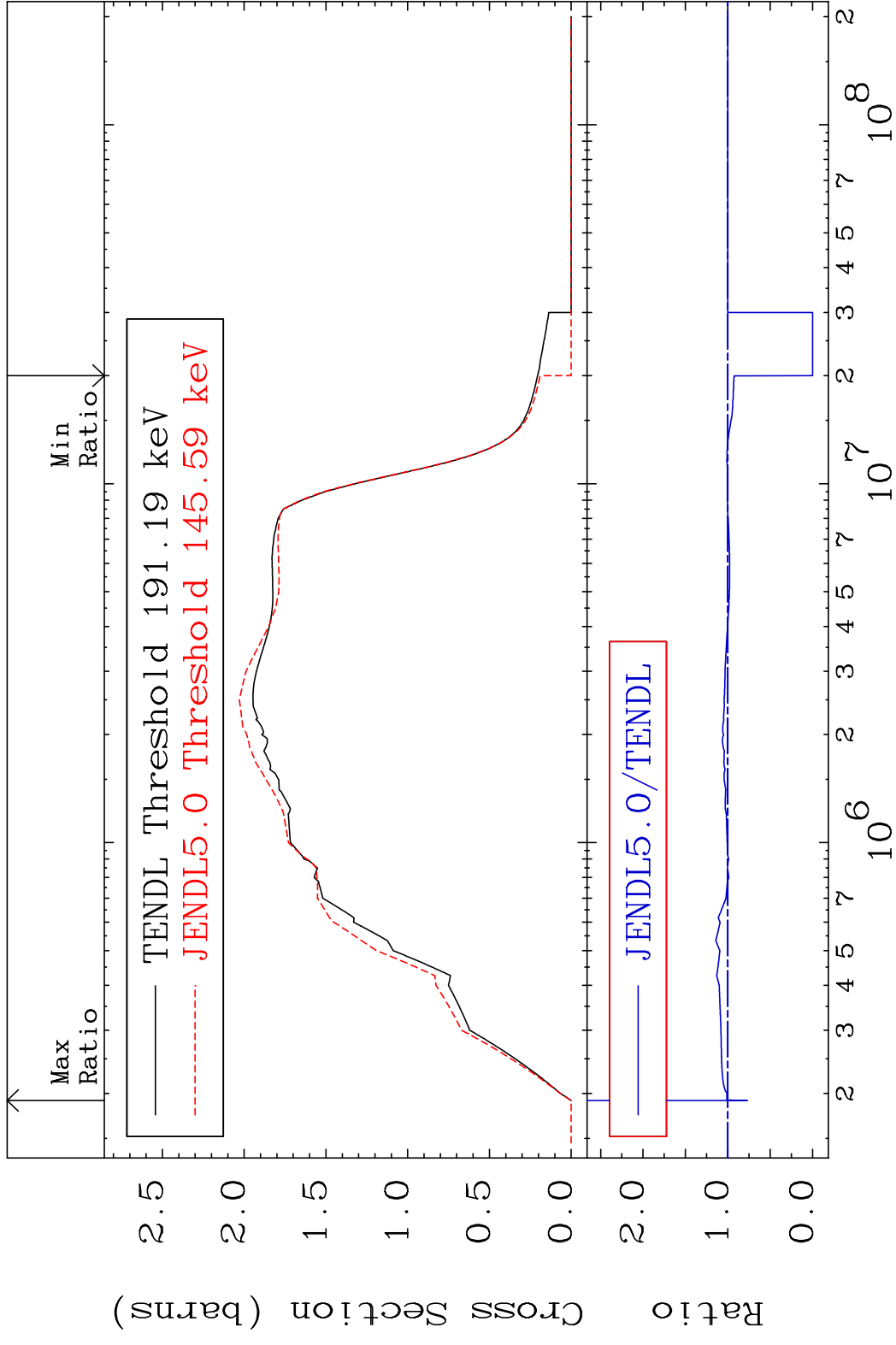
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

2

Incident Energy (eV)

44-Ru-97

MAT 4428 Inelastic Cross Section -100.0 To 53.60 % 44-Ru-97

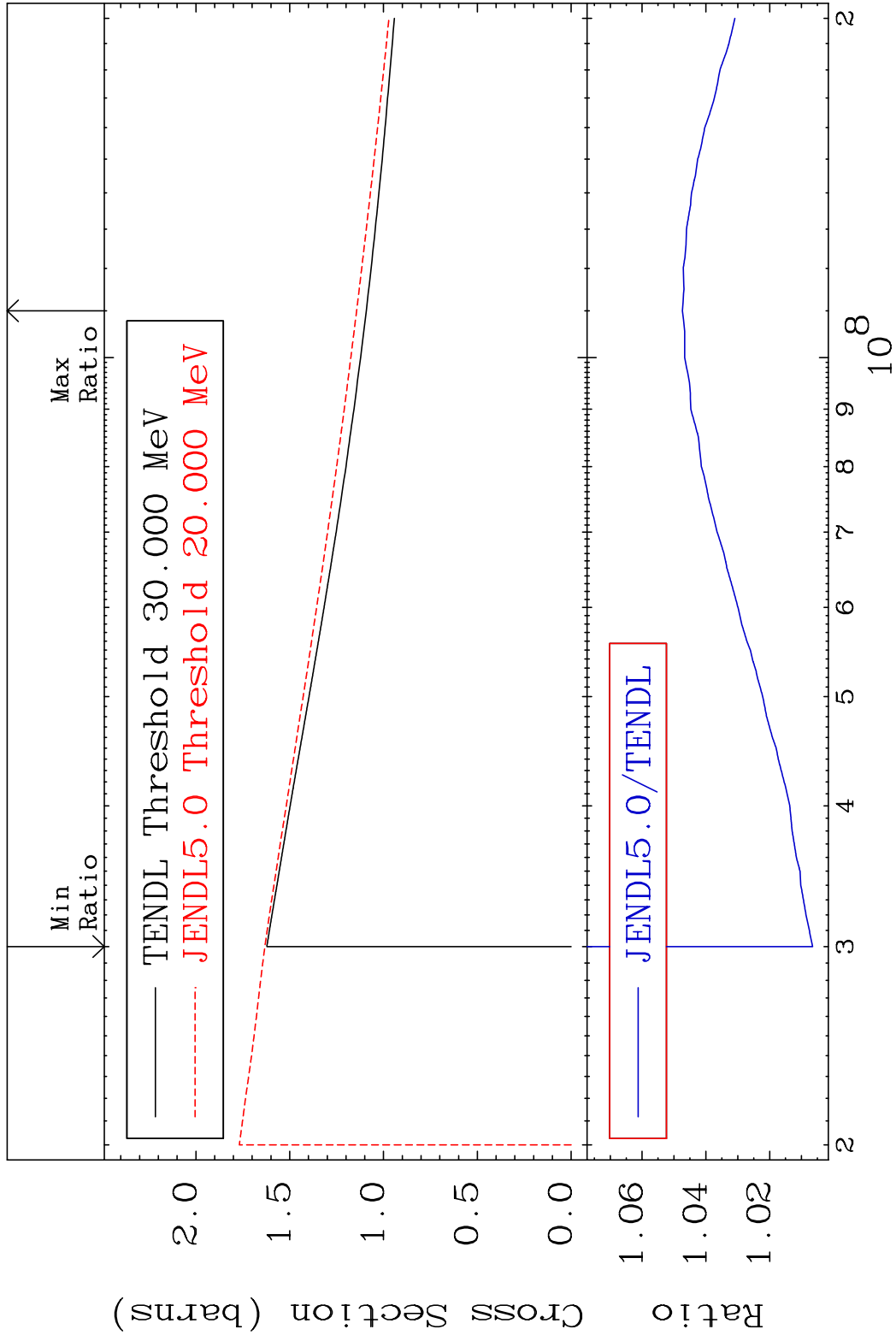


MAT 4428

(n, remainder)

44-Ru-97

Cross Section 0.654 To 4.738 %



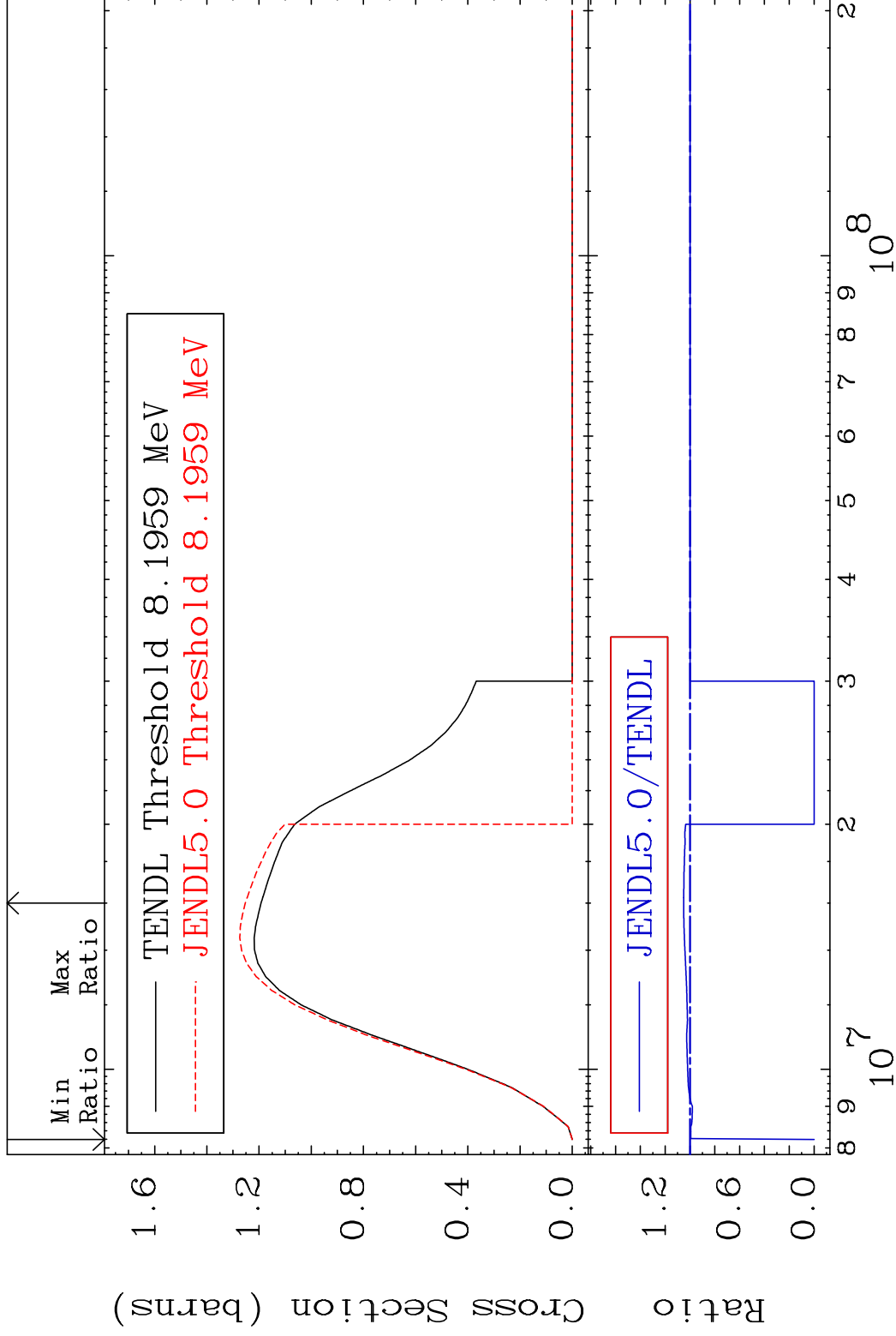
4 Incident Energy (eV) 44-Ru-97

MAT 4428

(n,2n)

44-Ru-97

Cross Section -100.0 To 5.092 %

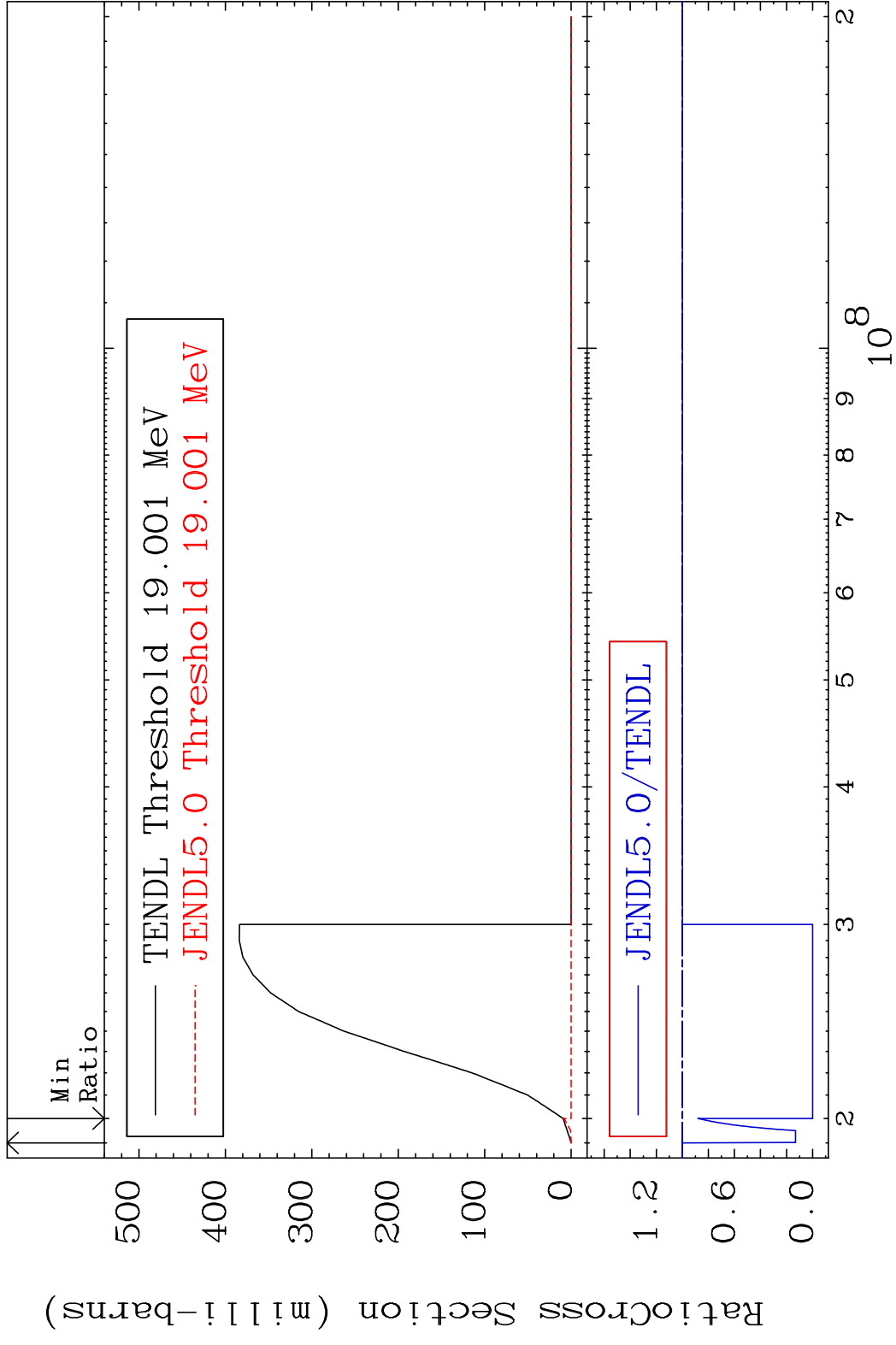


5

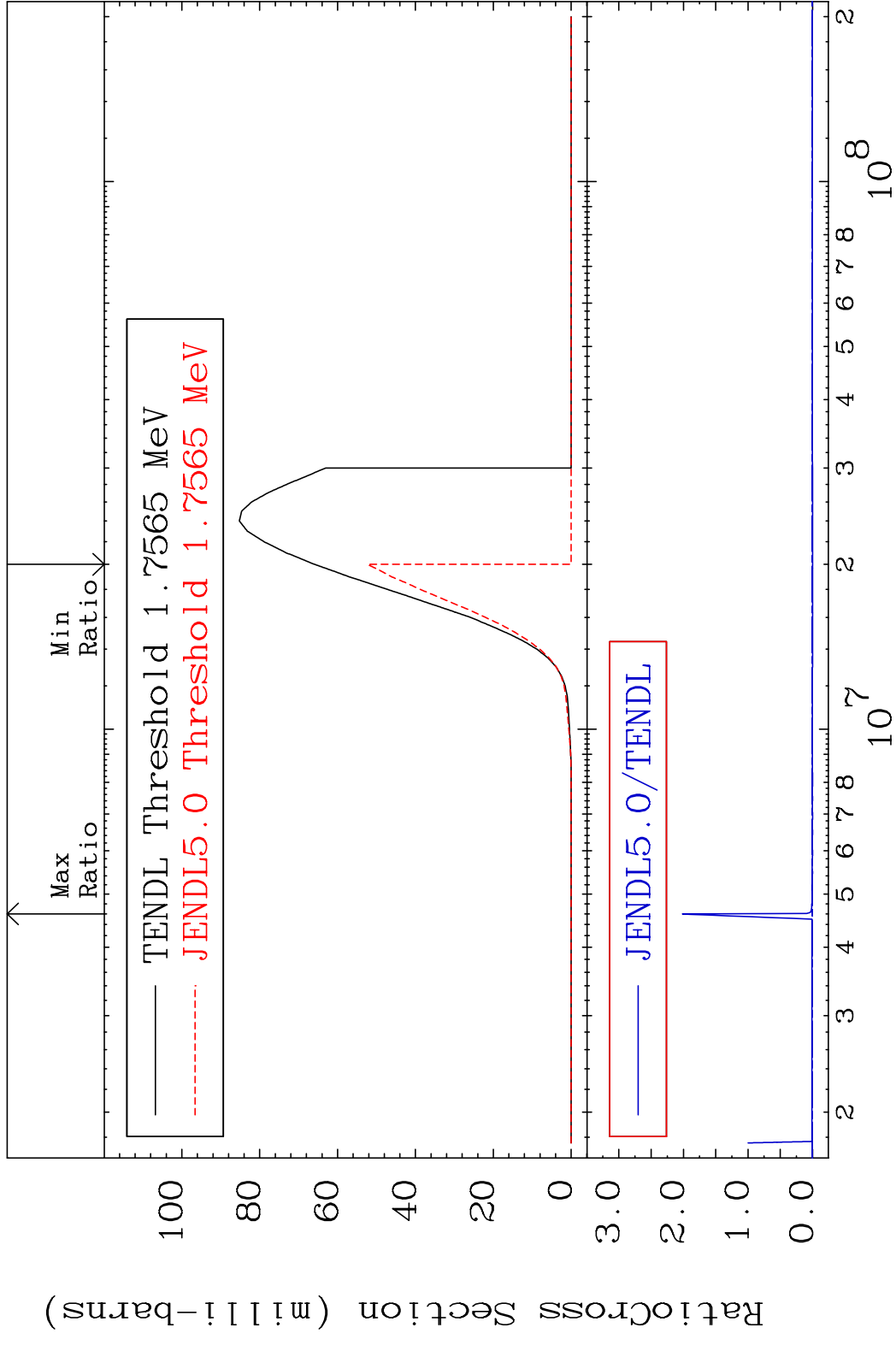
Incident Energy (eV)

44-Ru-97

MAT 4428 (n,3n) 44-Ru-97
 Cross Section -100.0 To 0.000 %



MAT 4428 (n, n') α 44-Ru-97
 Cross Section -100.0 To 9999. %

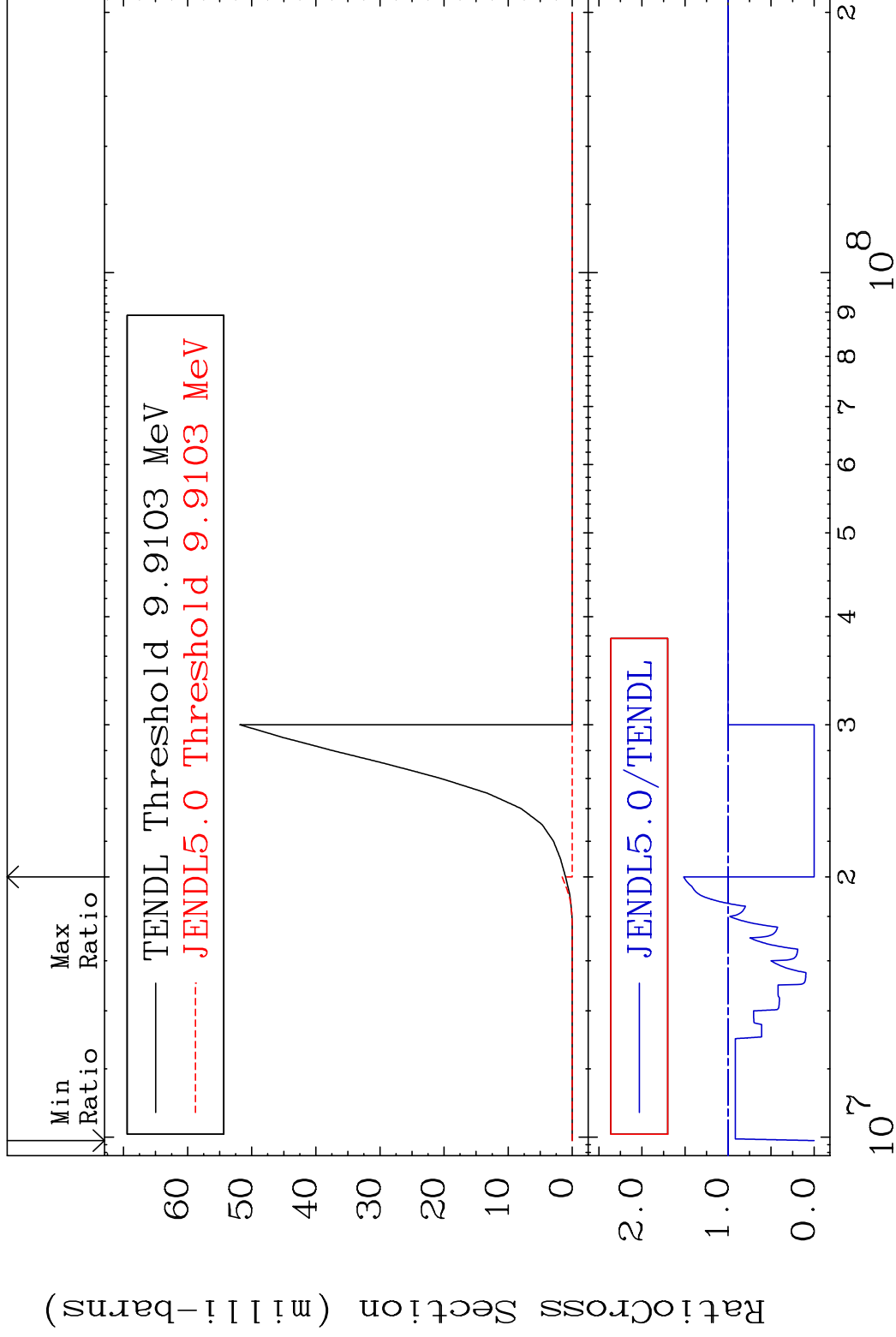


MAT 4428

(n,2n) α

44-Ru-97

Cross Section -100.0 To 51.57 %

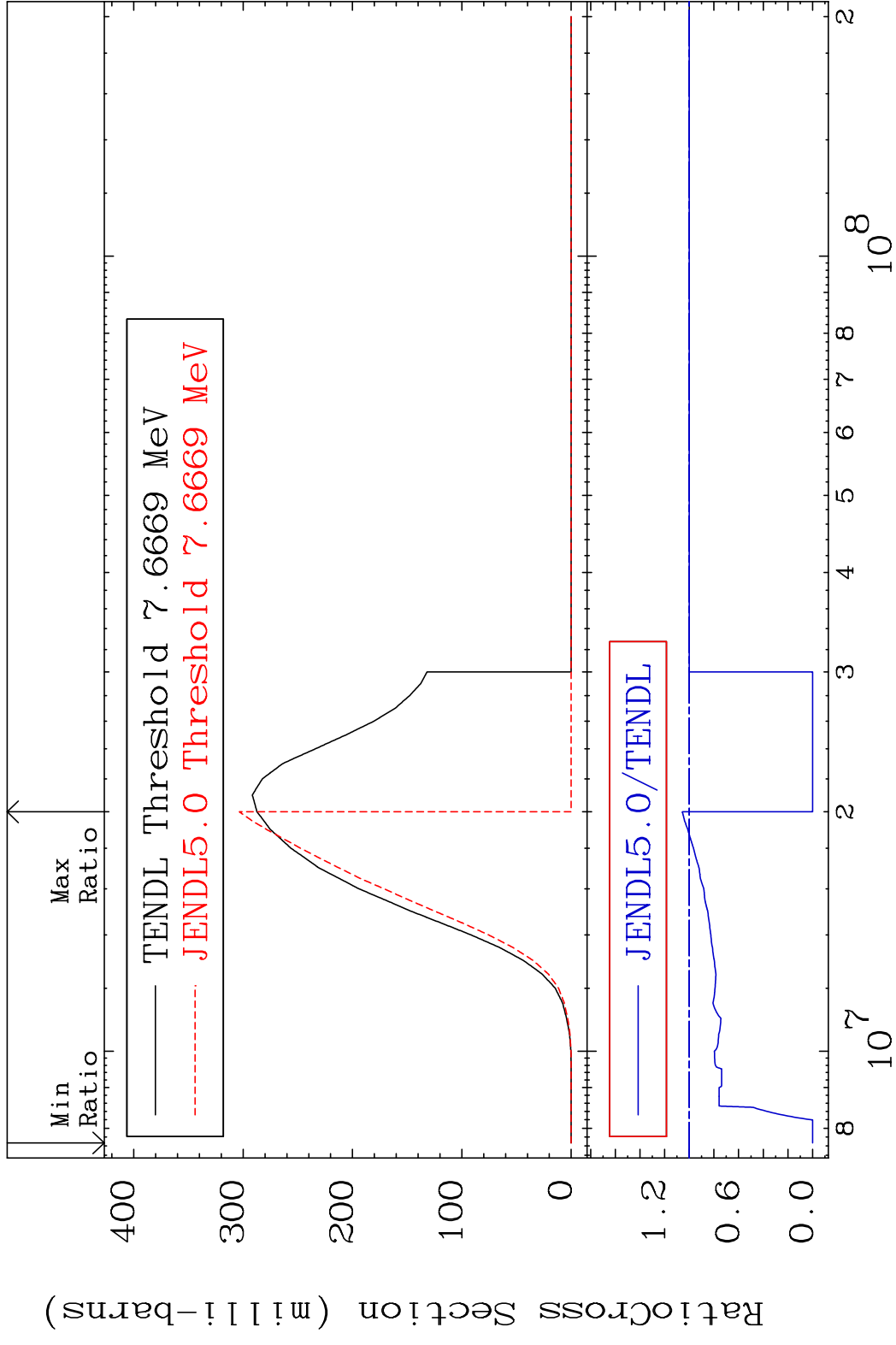


44-Ru-97

Incident Energy (eV)

8

MAT 4428 (n, n') p 44-Ru-97
 Cross Section -100.0 To 5.622 %

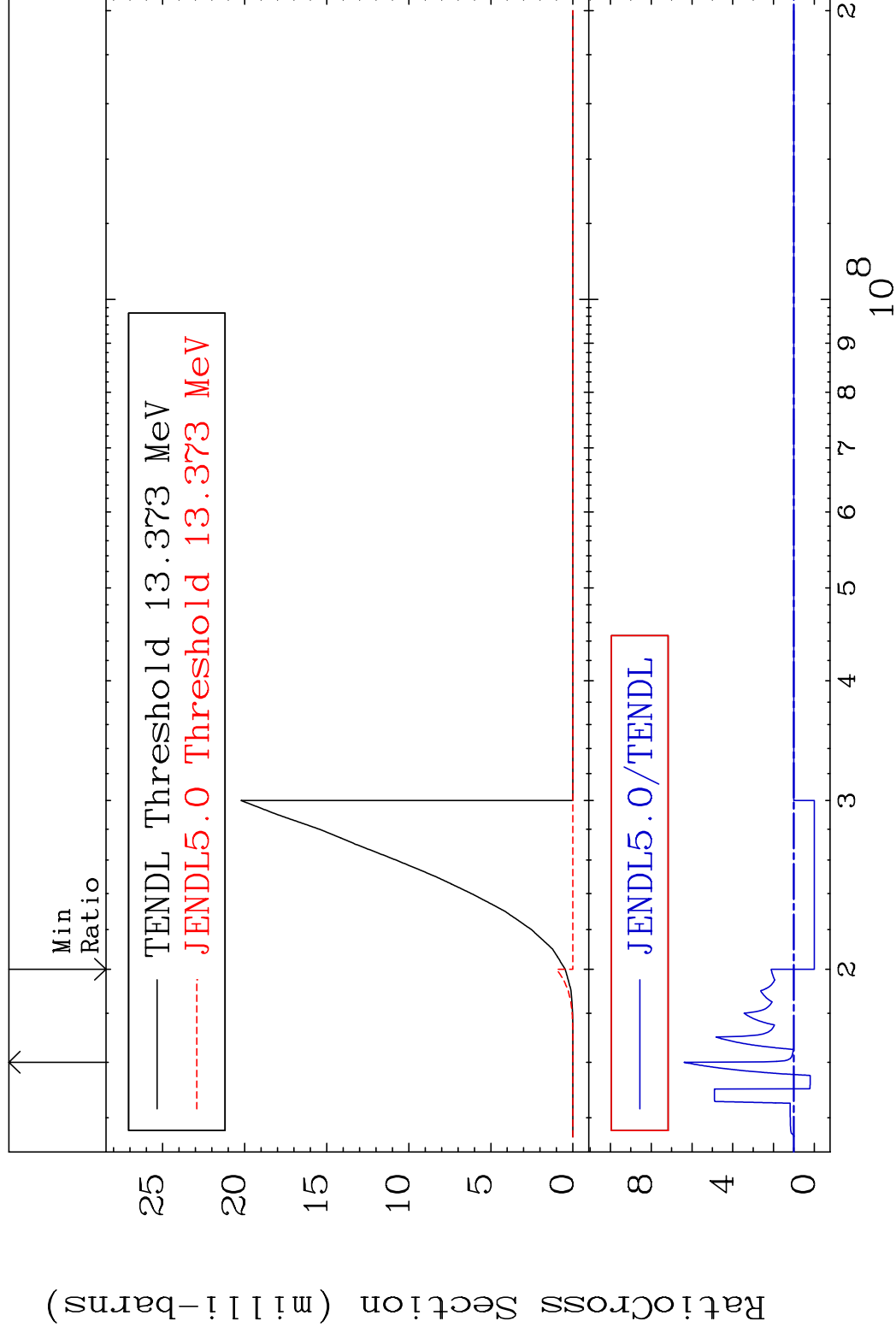


MAT 4428

(n, n') d

44-Ru-97

Cross Section -100.0 To 538.8 %



10

Incident Energy (eV)

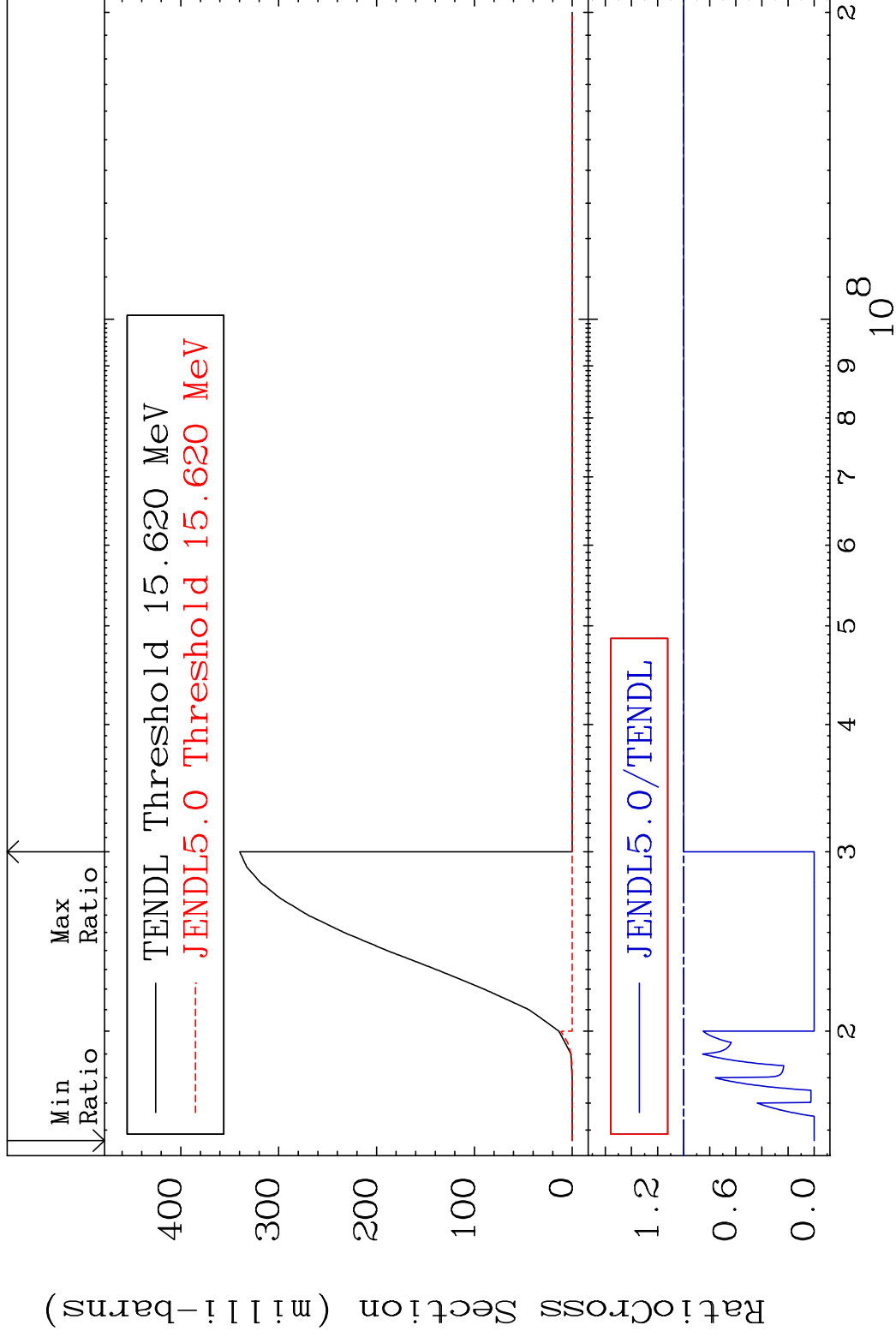
44-Ru-97

MAT 4428

(n,2n) p

44-Ru-97

Cross Section -100.0 To 0.000 %

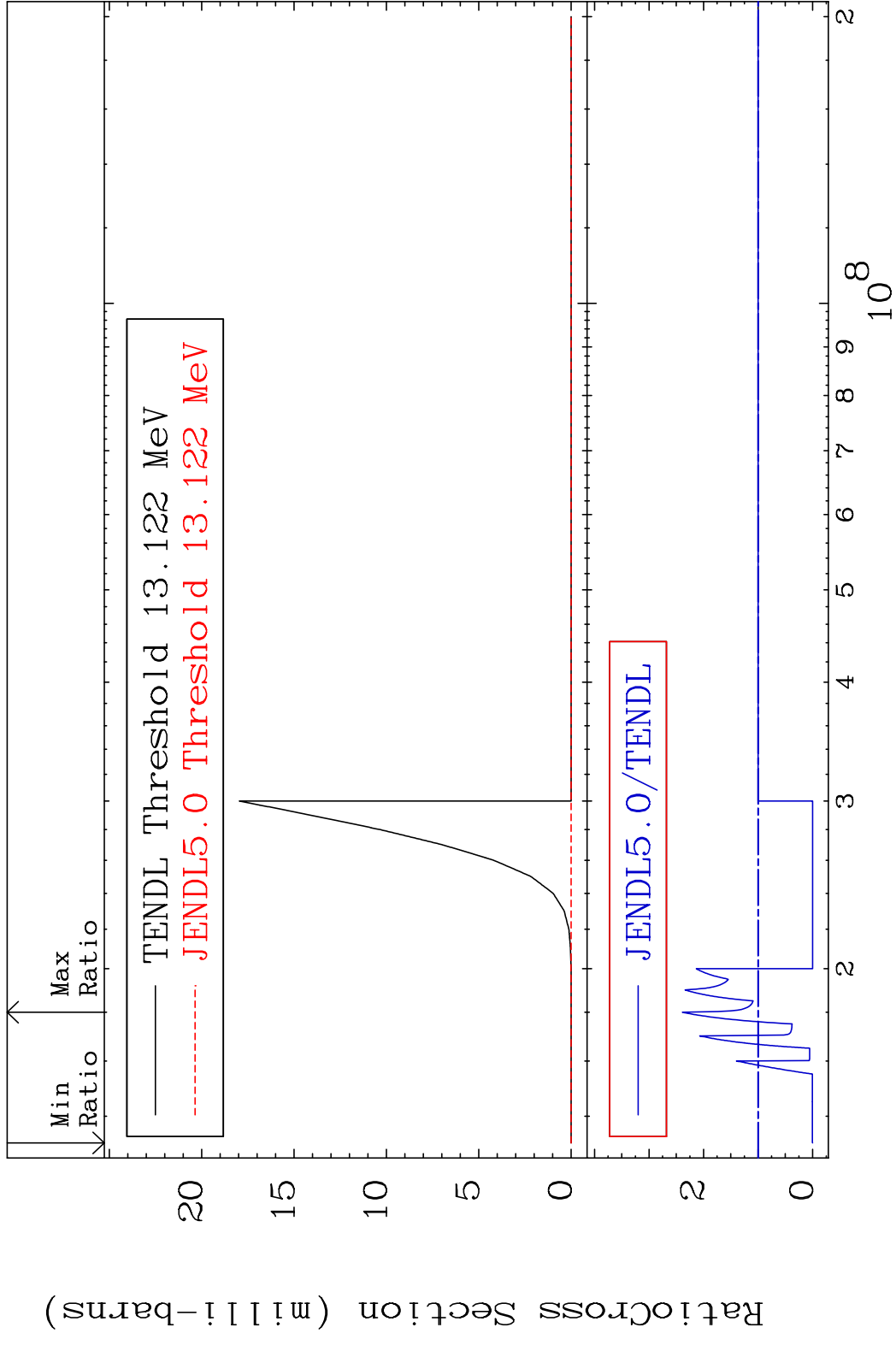


MAT 4428

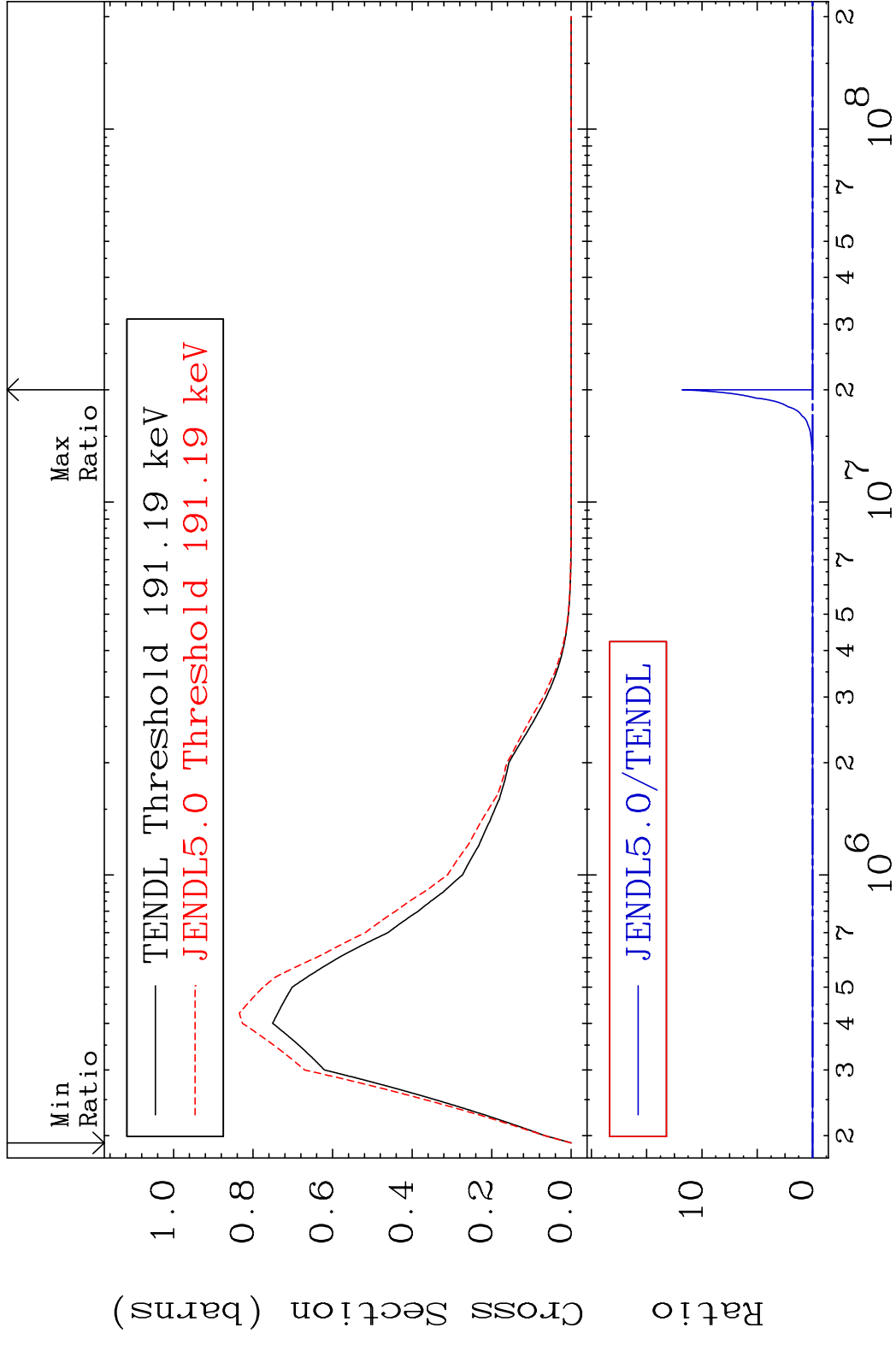
(n,2n) p

44-Ru-97

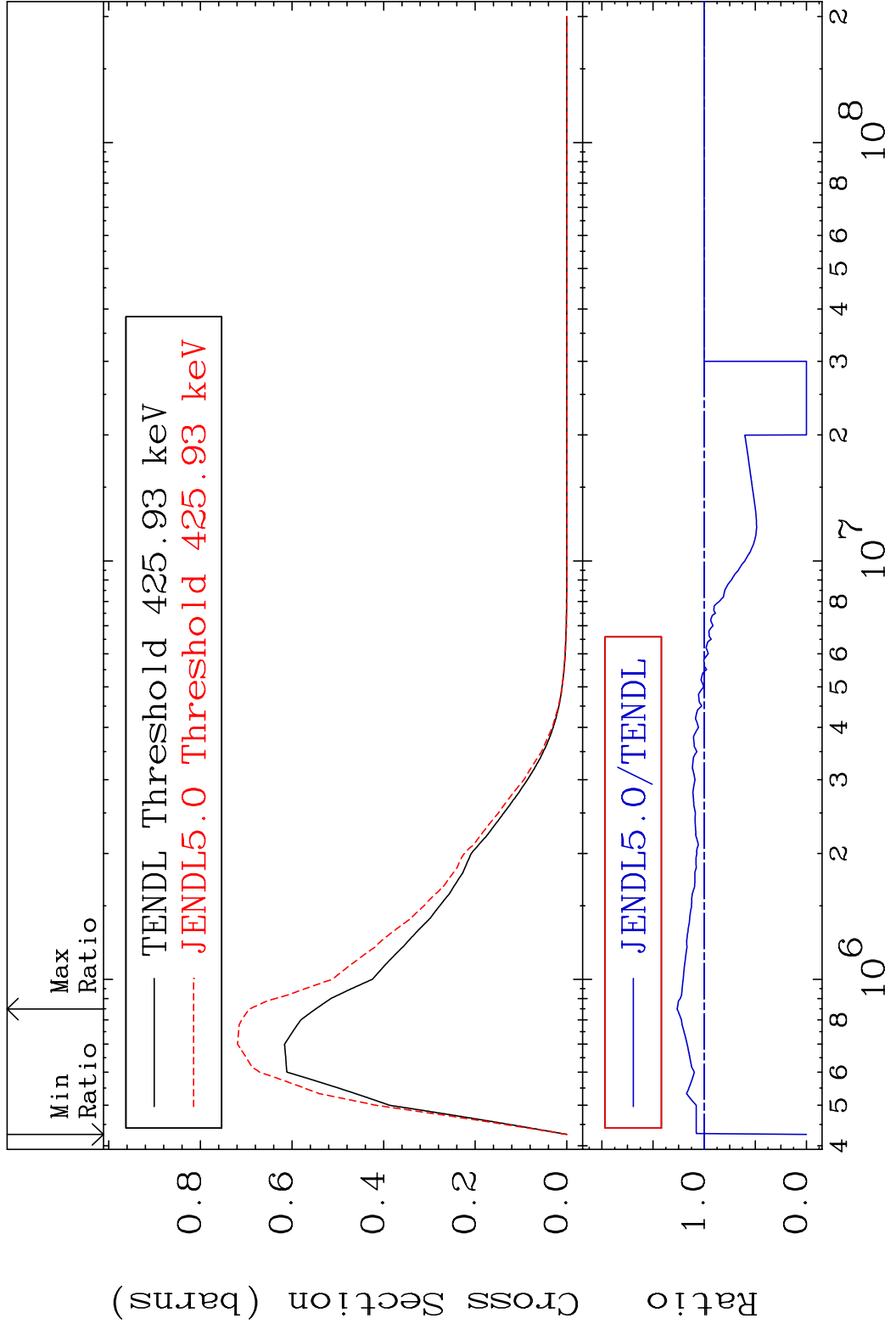
Cross Section -100.0 To 138.8 %



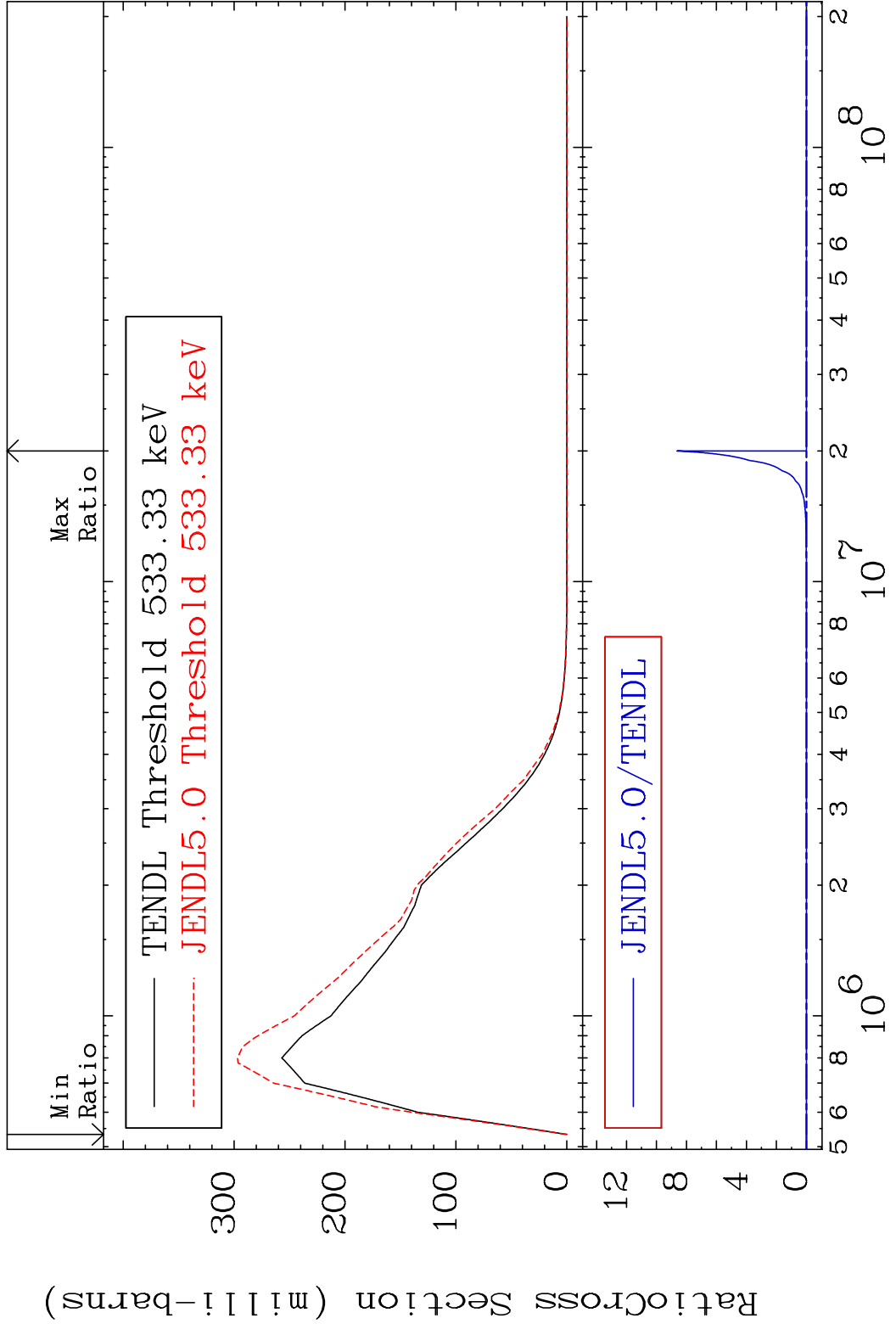
MAT 4428 MT= 51 (n, n') Level 44-Ru-97
 Cross Section -100.0 To 9999. %



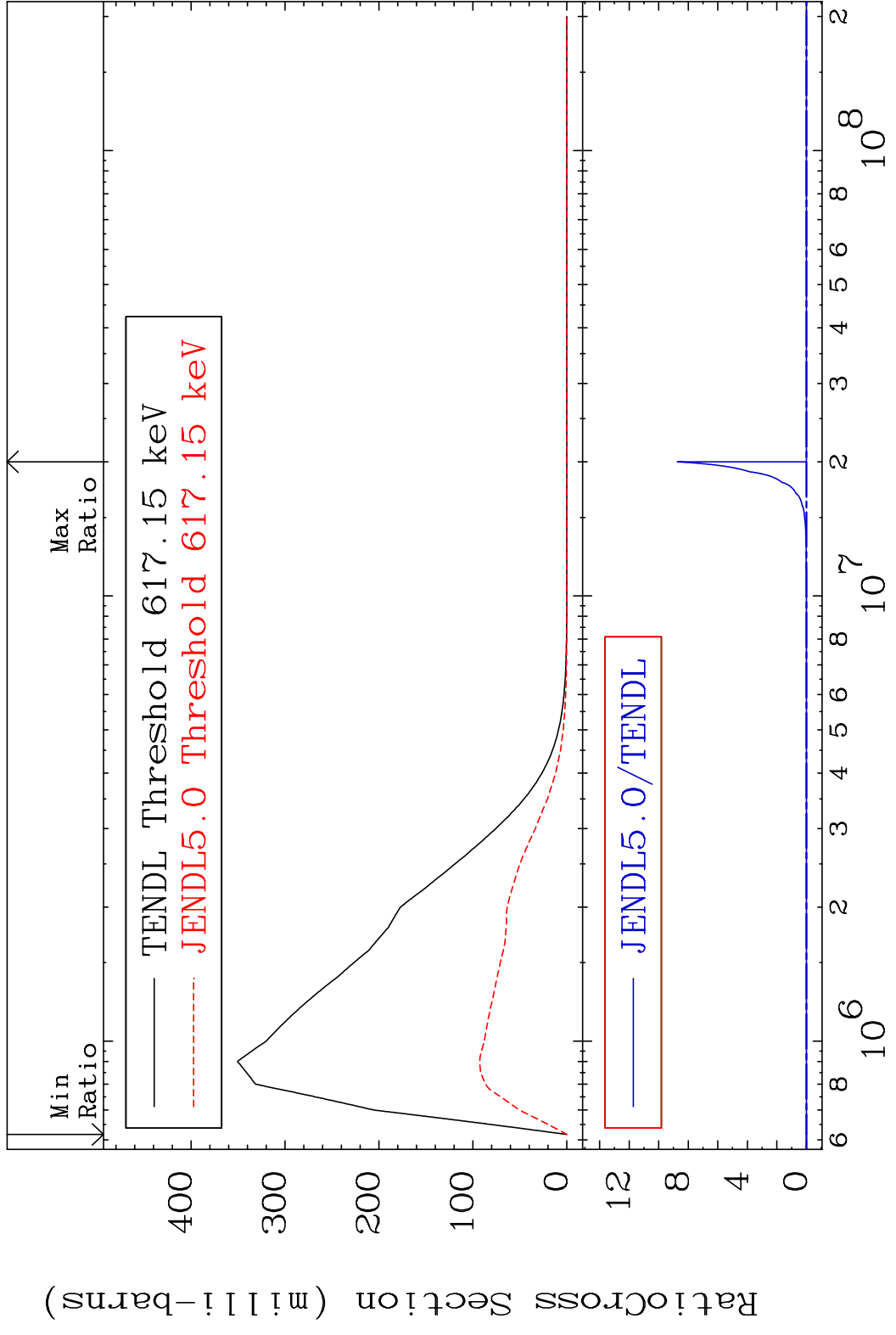
MAT 4428 MT= 52 (n, n') Level 44-Ru-97
 Cross Section -100.0 To 26.40 %



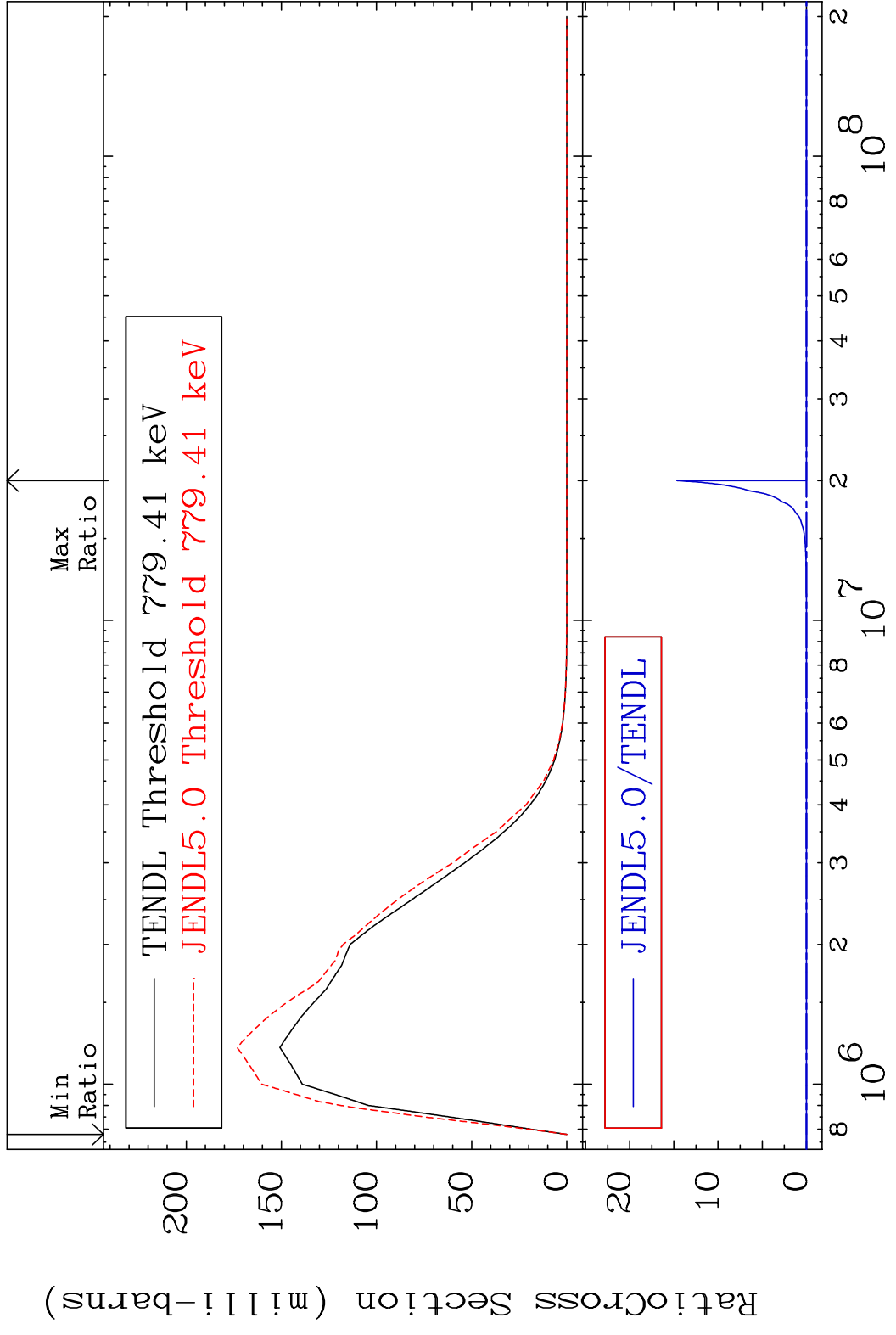
MAT 4428 MT= 53 (n, n') Level 44-Ru-97
 Cross Section -100.0 To 9999. %



MAT 4428 MT= 54 (n, n') Level 44-Ru-97
 Cross Section -100.0 To 9999. %

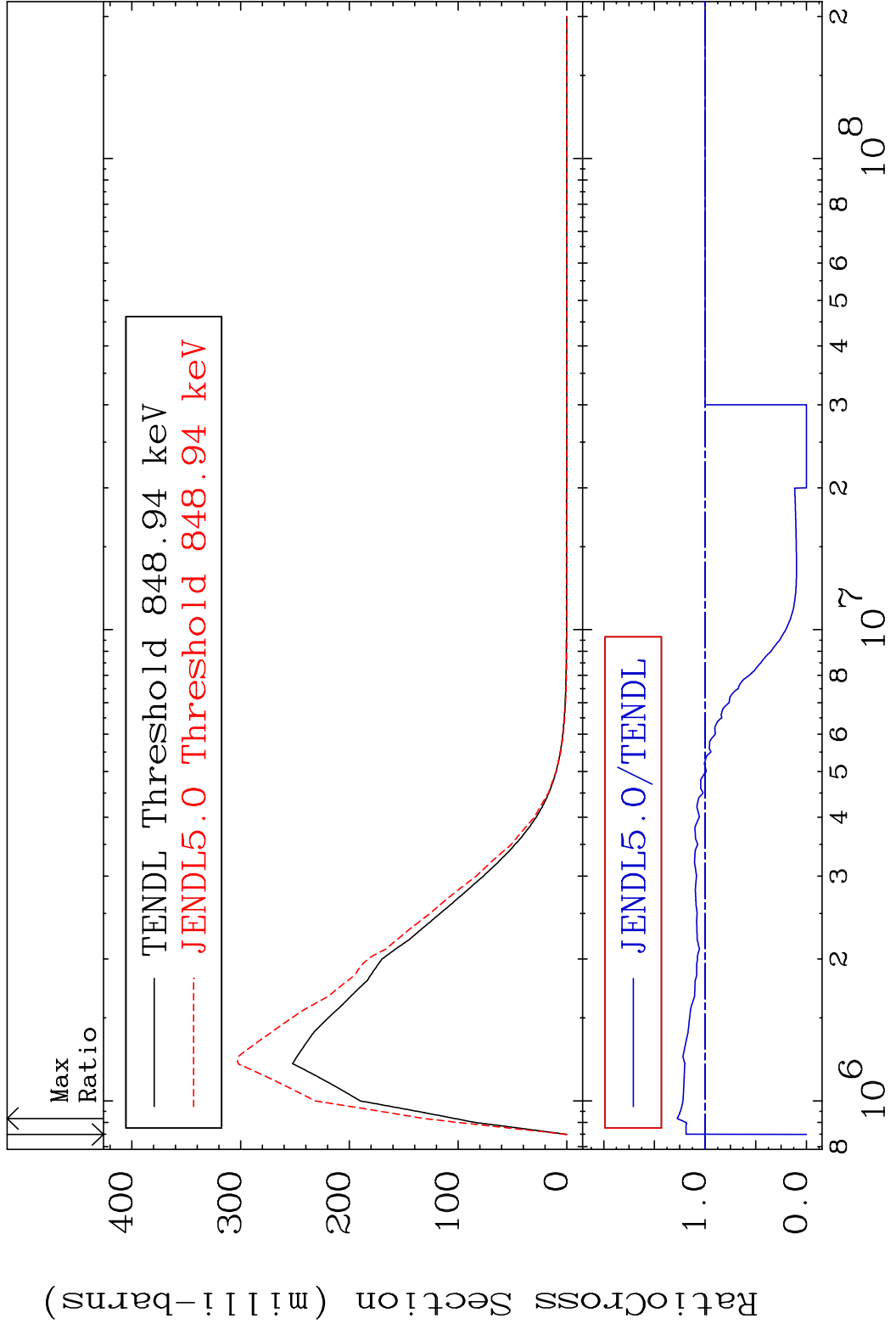


MAT 4428 MT= 55 (n, n') Level 44-Ru-97
 Cross Section -100.0 To 9999. %



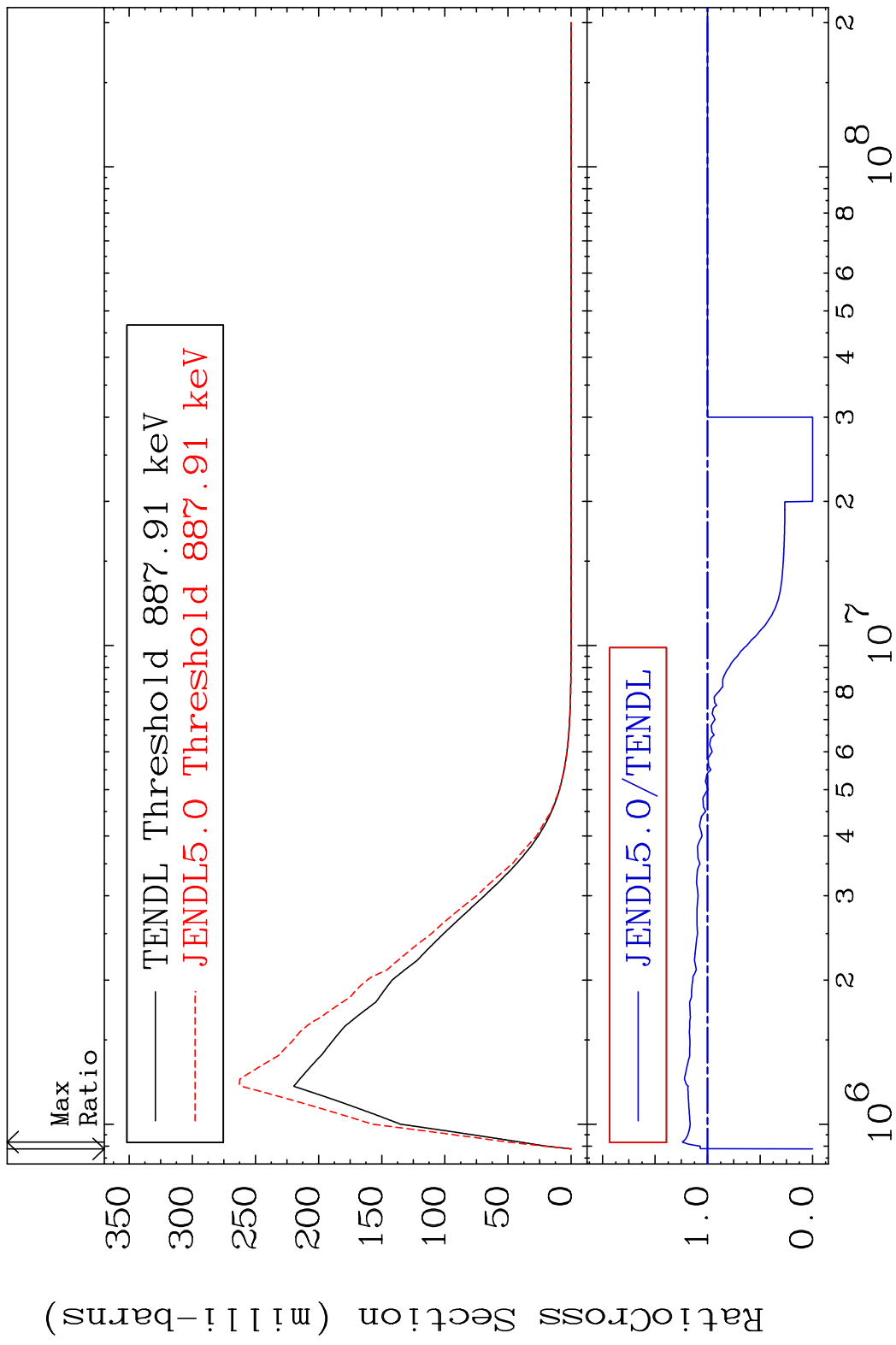
17 44-Ru-97

MAT 4428 MT= 56 (n,n') Level 44-Ru-97
 Cross Section -100.0 To 27.55 %



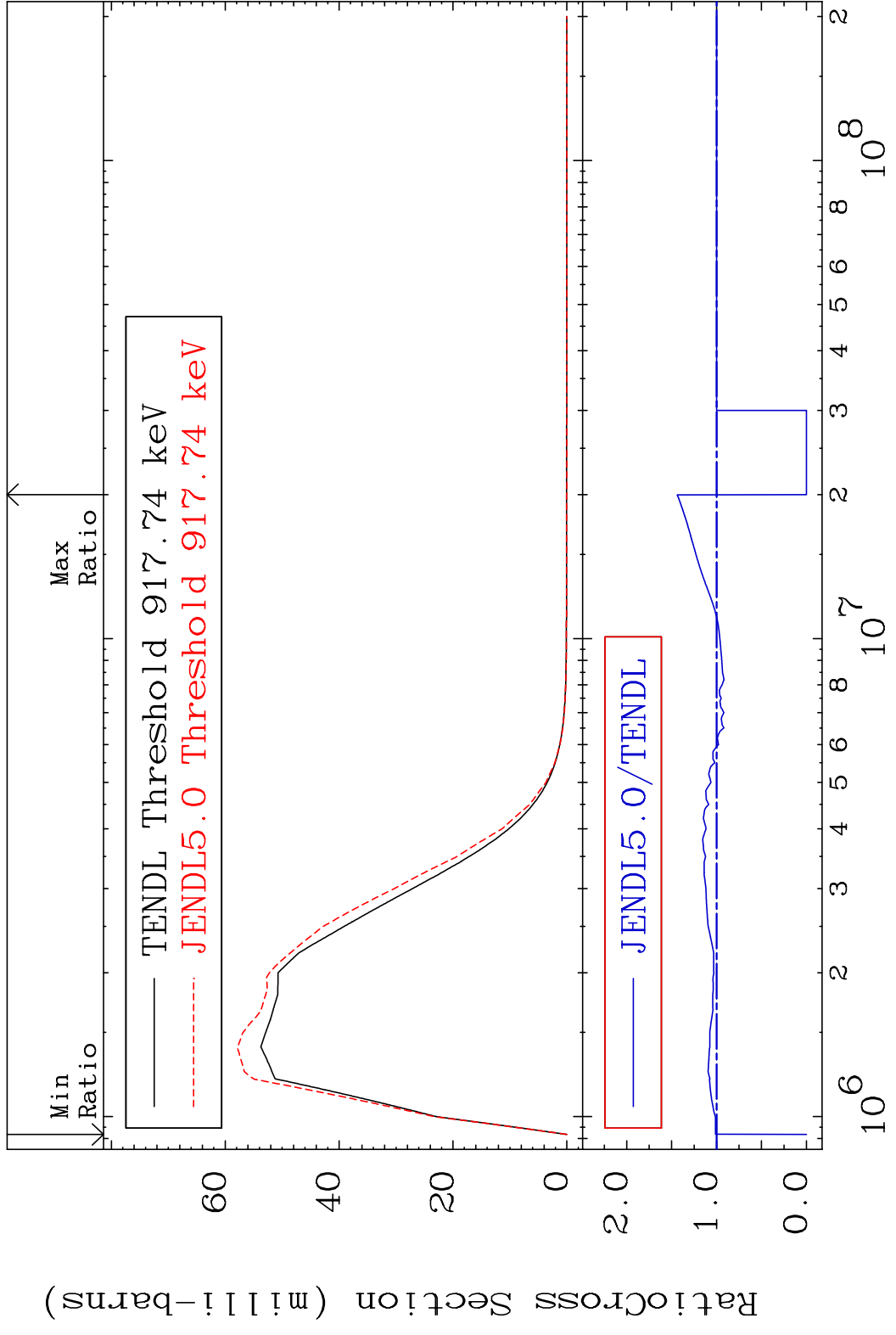
18 44-Ru-97

MAT 4428 MT= 57 (n, n') Level 44-Ru-97
 Cross Section -100.0 To 24.01 %



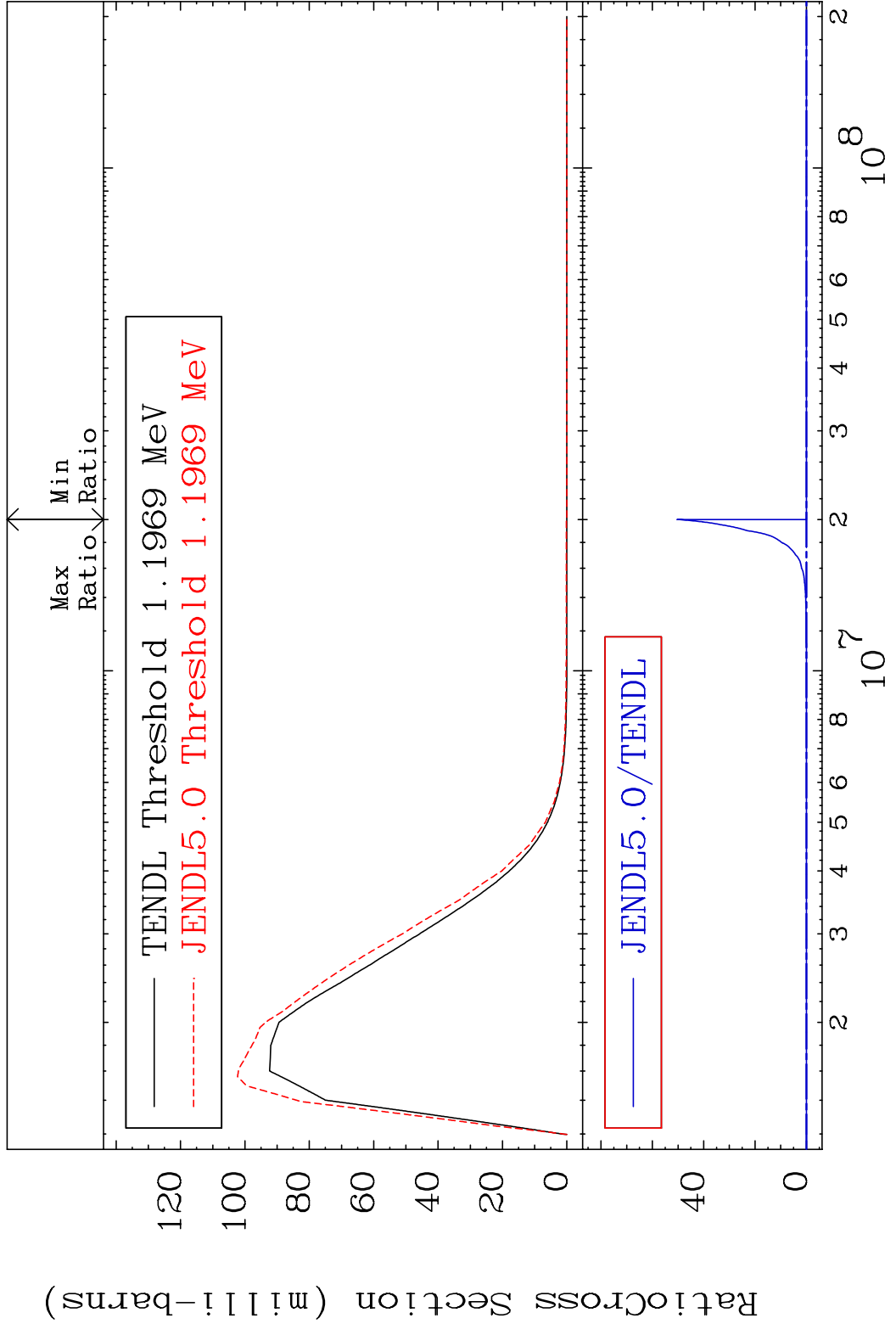
19 Incident Energy (eV) 44-Ru-97

MAT 4428 MT= 58 (n, n') Level 44-Ru-97
 Cross Section -100.0 To 43.81 %

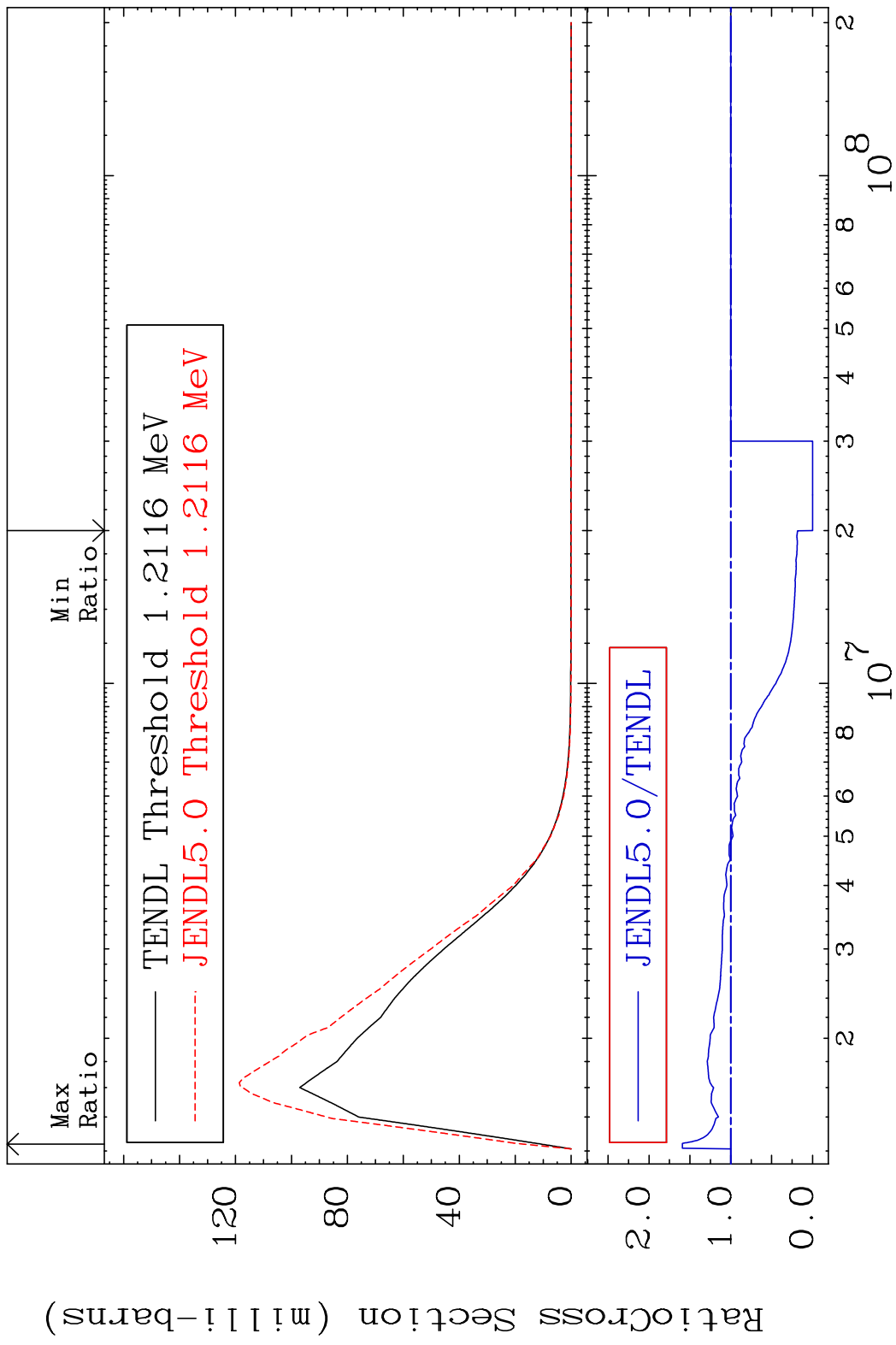


20 10⁶ 2 10⁷ 2 3 4 5 6 8 10⁸ 2

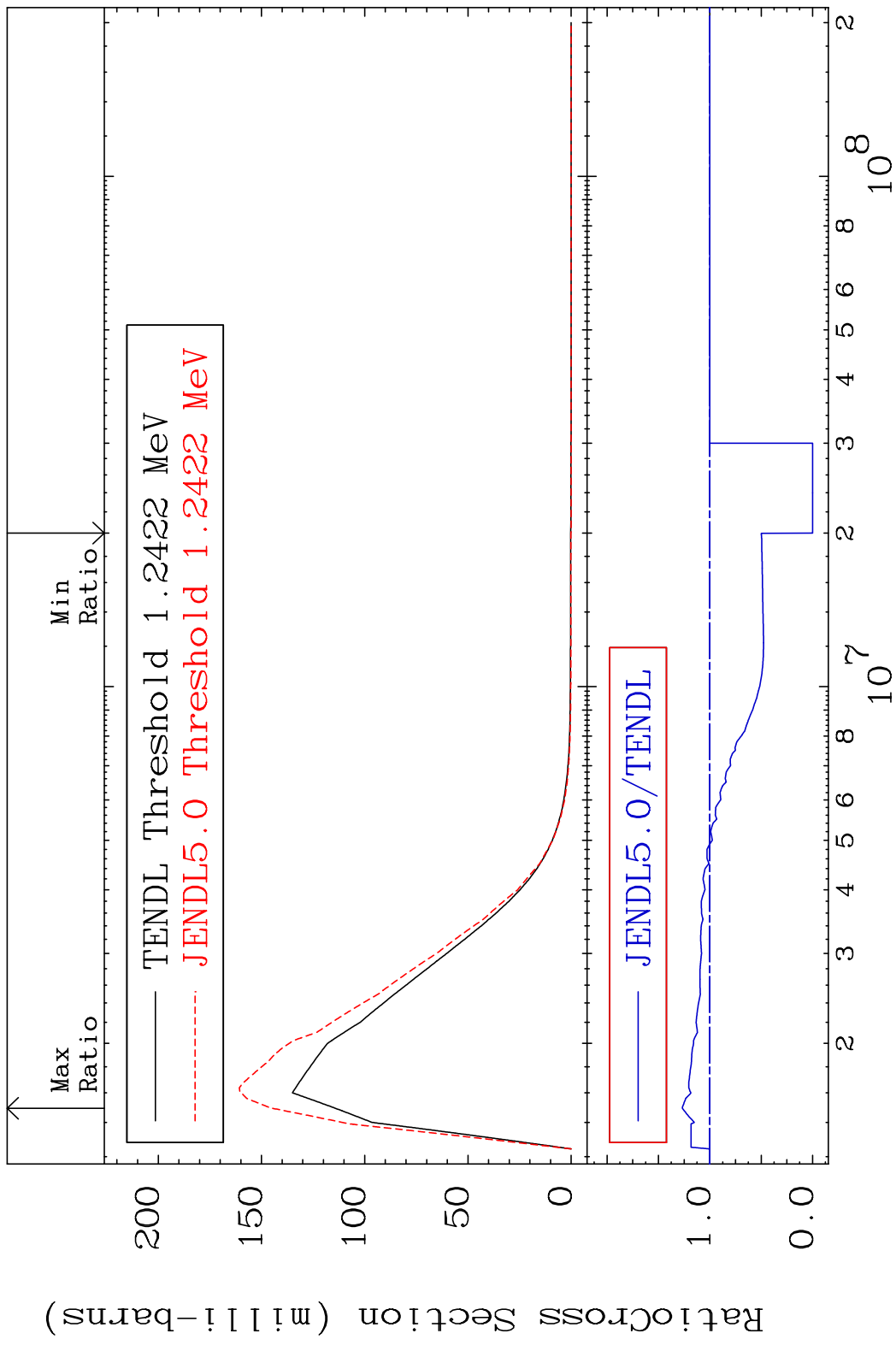
MAT 4428 MT= 59 (n, n') Level 44-Ru-97
 Cross Section -100.0 To 9999. %



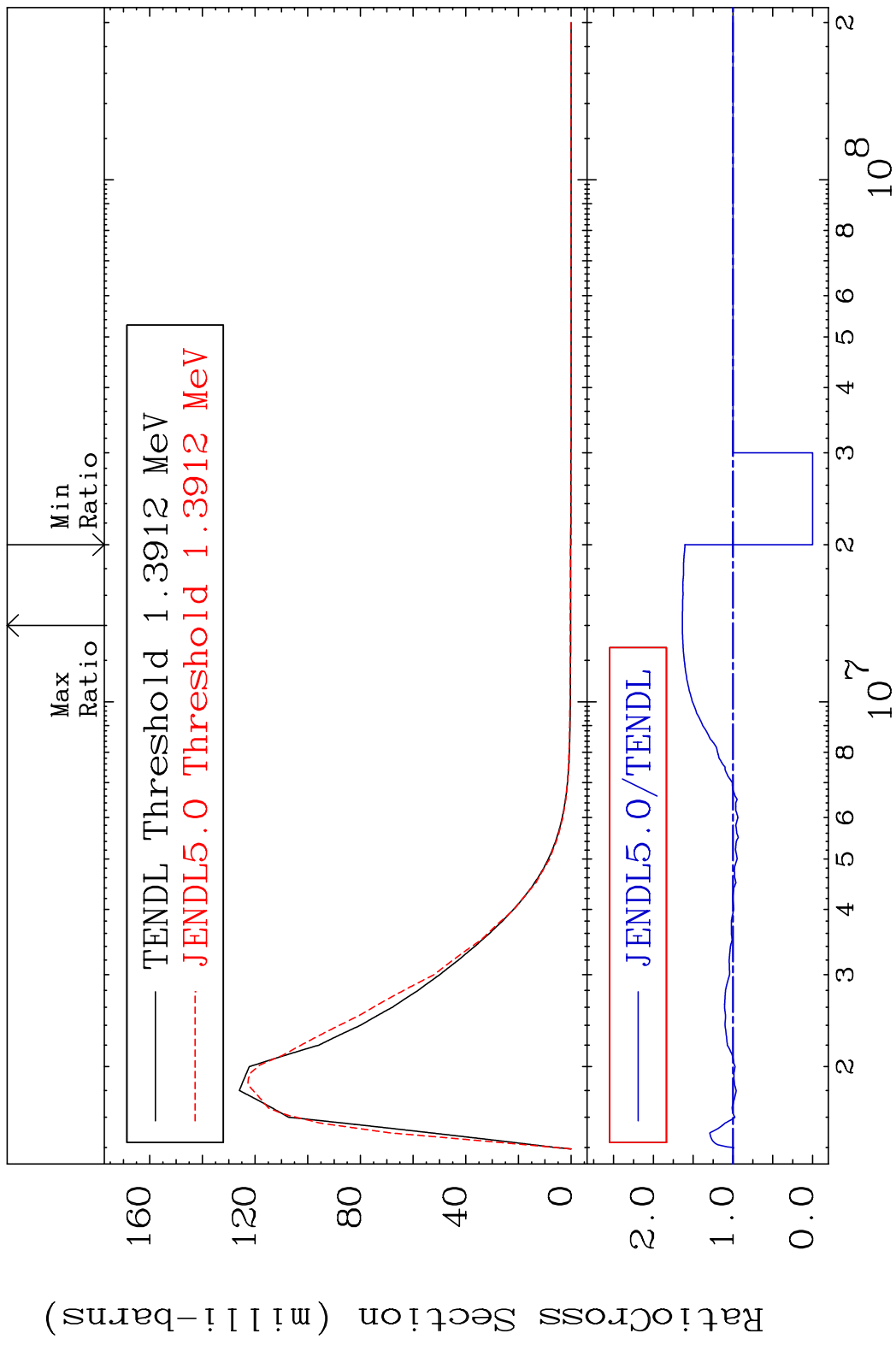
MAT 4428 MT= 60 (n, n') Level 44-Ru-97
 Cross Section -100.0 To 59.22 %



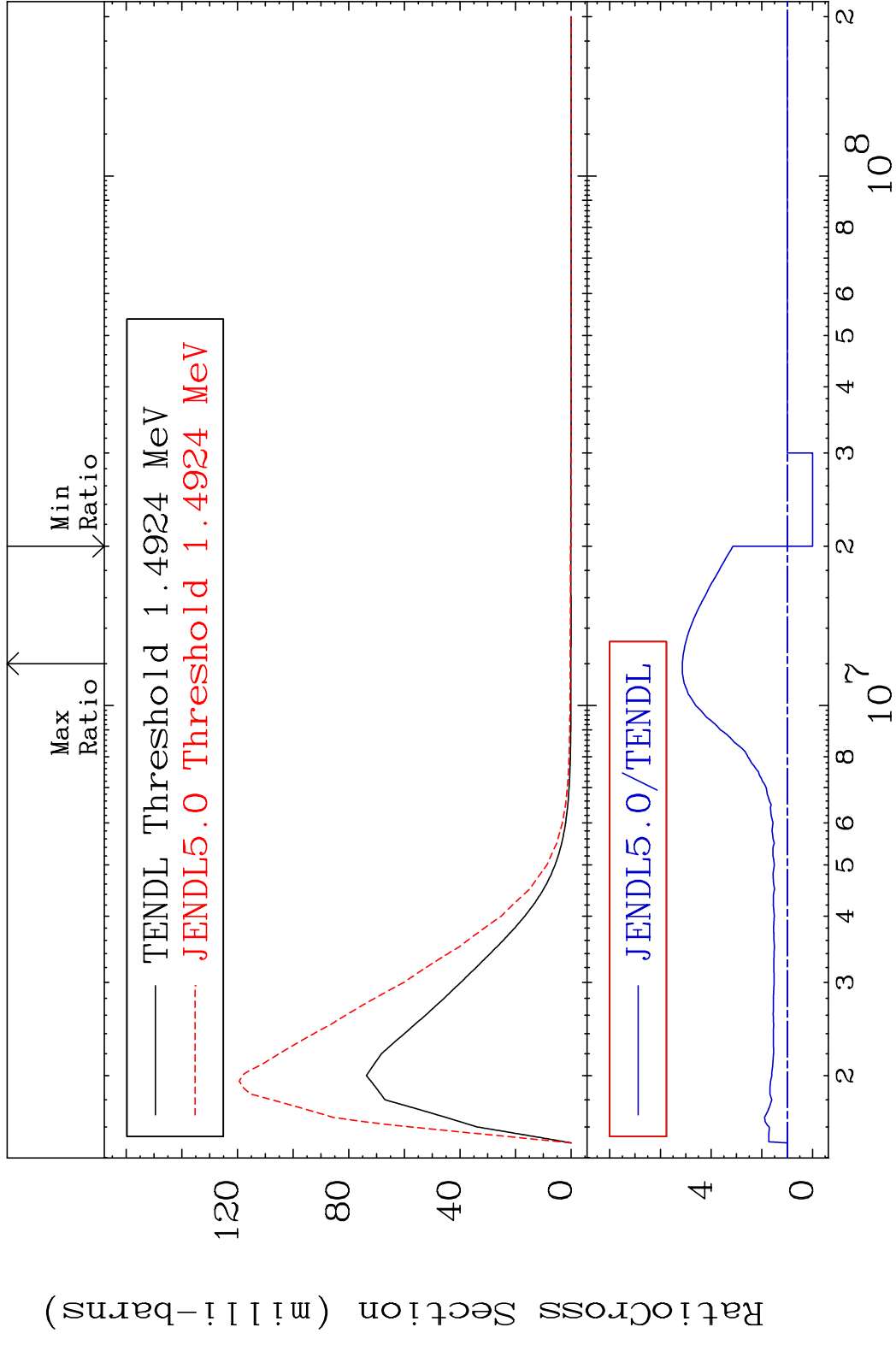
MAT 4428 MT= 61 (n, n') Level 44-Ru-97
 Cross Section -100.0 To 26.72 %



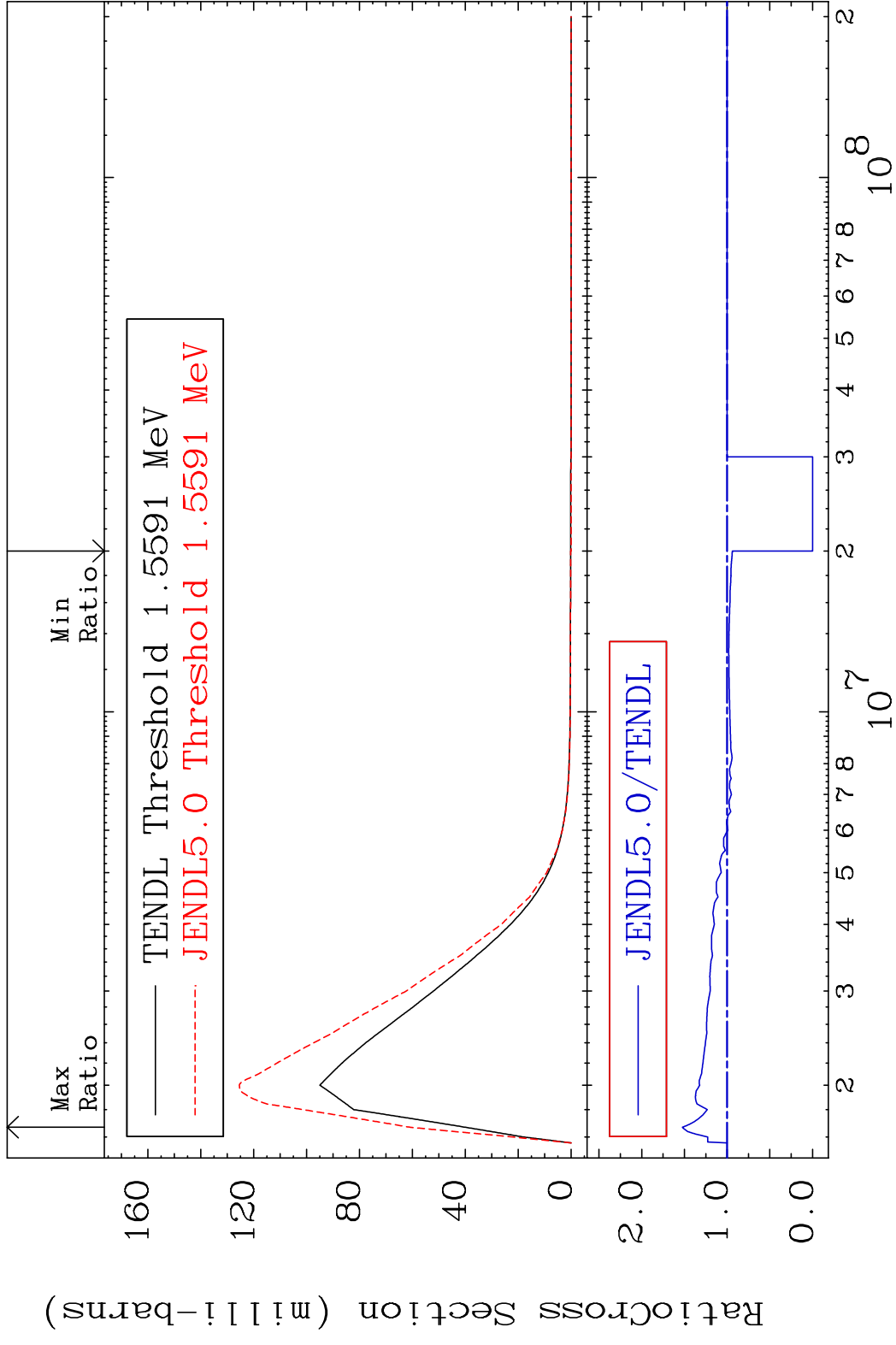
MAT 4428 MT= 62 (n, n') Level 44-Ru-97
 Cross Section -100.0 To 63.61 %



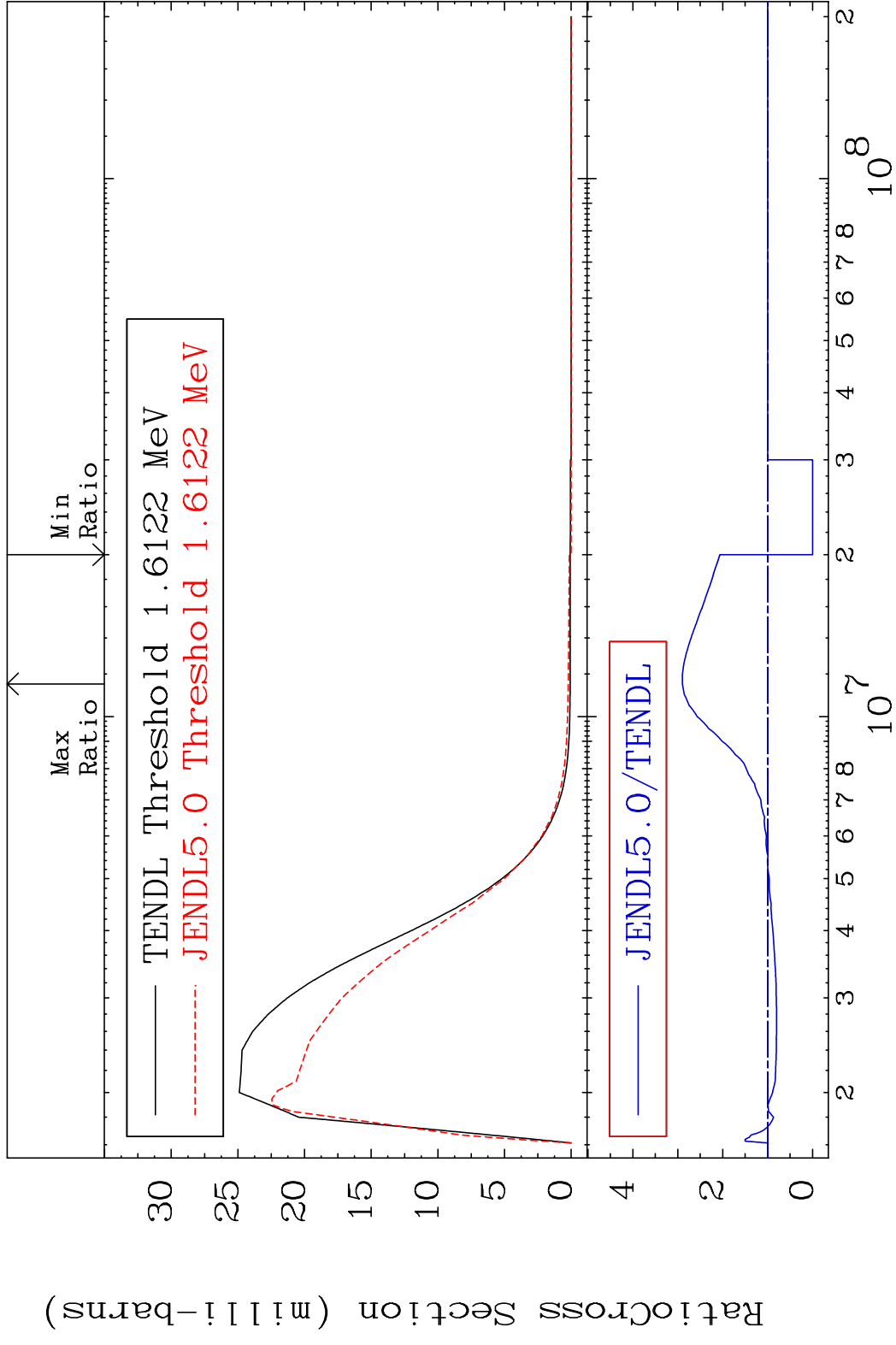
MAT 4428 MT= 63 (n, n') Level 44-Ru-97
 Cross Section -100.0 To 413.5 %



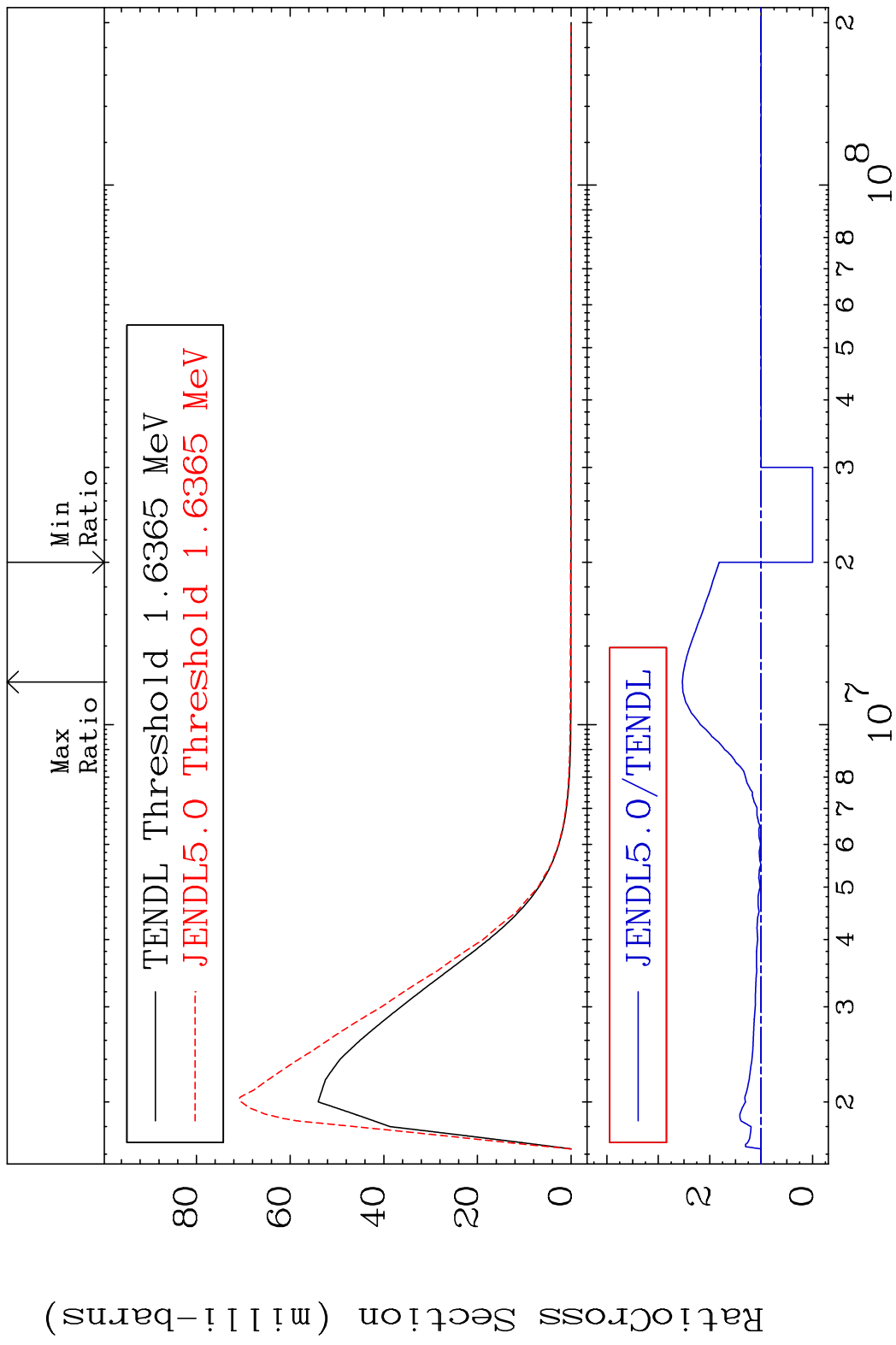
MAT 4428 MT= 64 (n, n') Level 44-Ru-97
 Cross Section -100.0 To 52.41 %



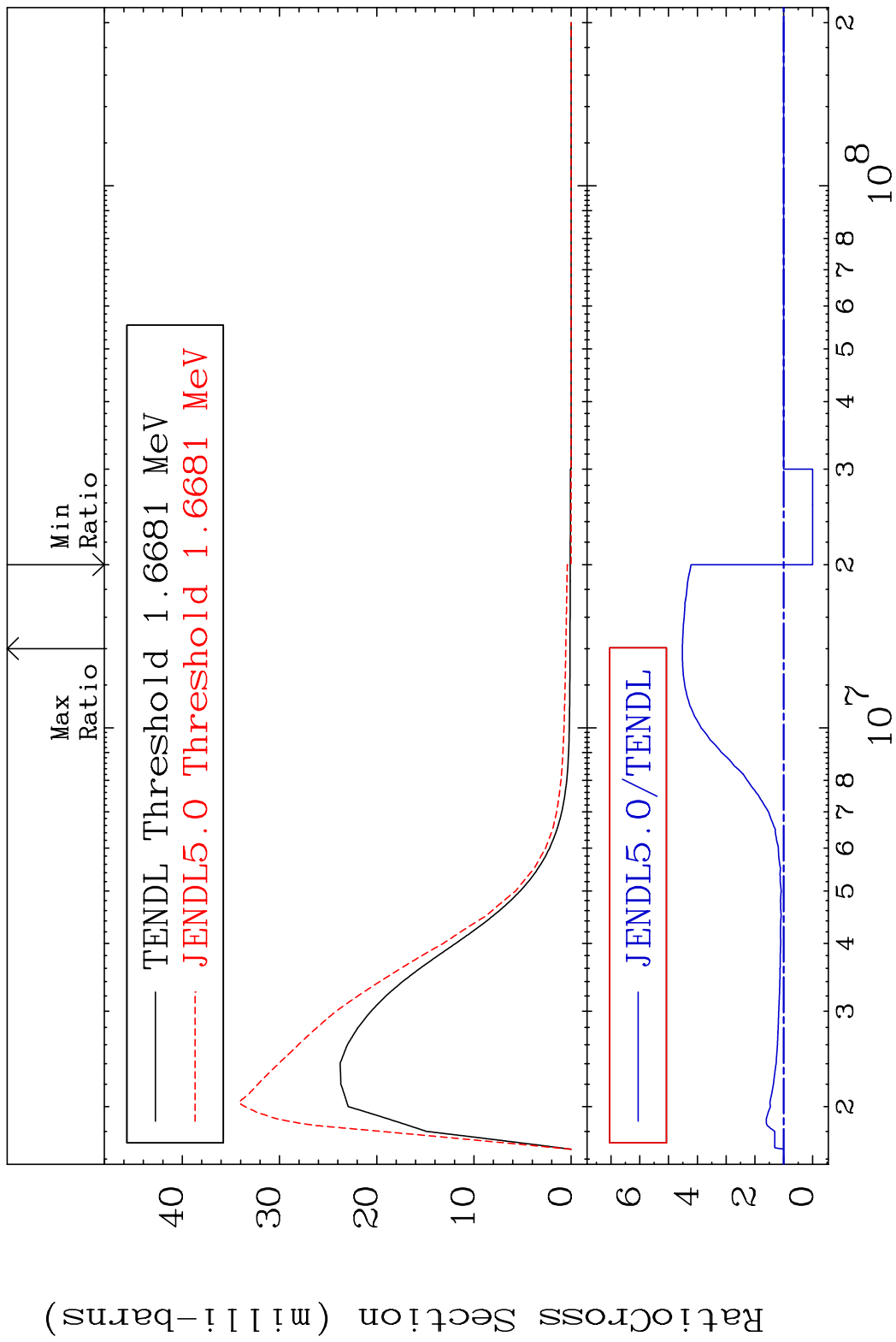
MAT 4428 MT= 65 (n, n') Level 44-Ru-97
 Cross Section -100.0 To 189.7 %



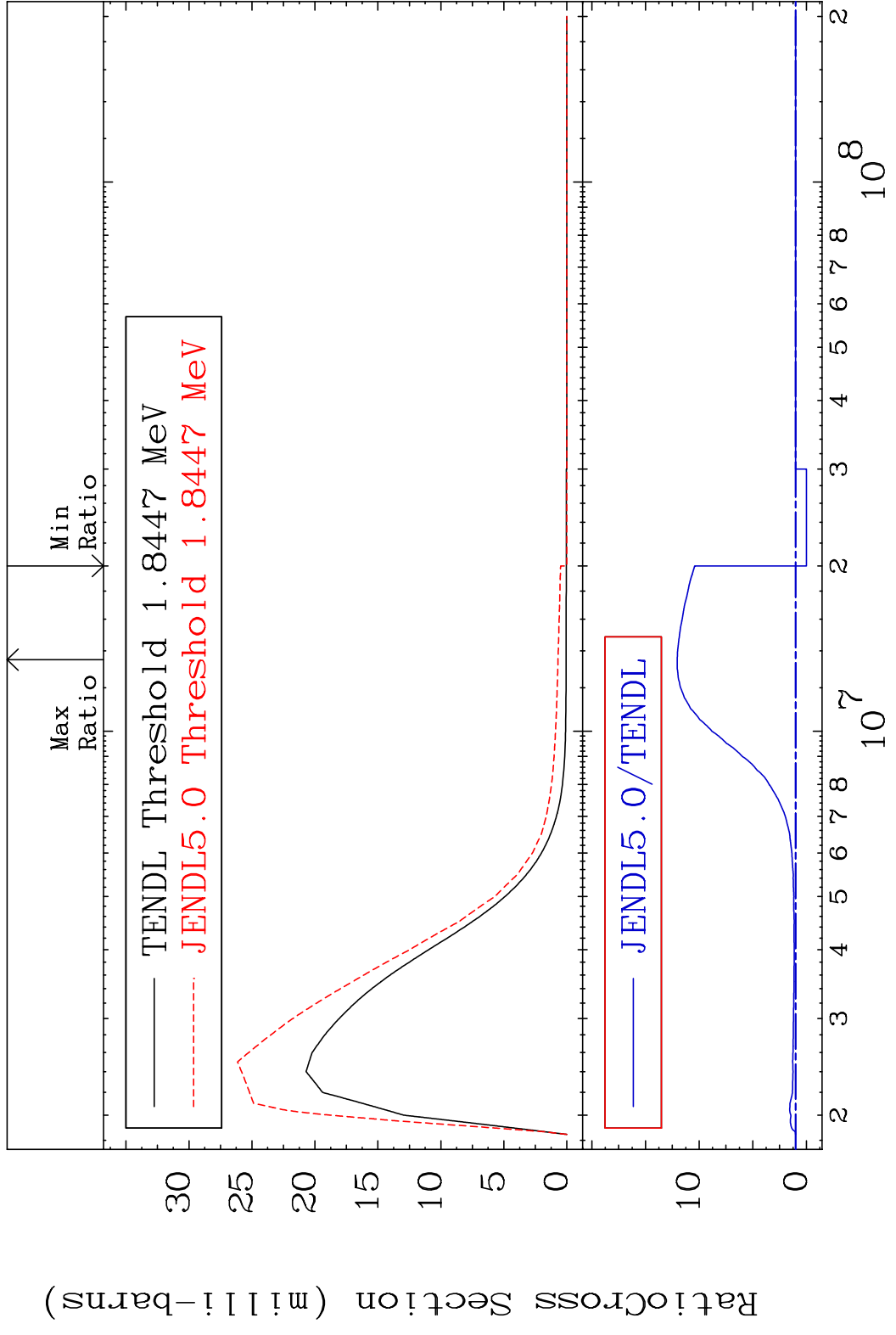
MAT 4428 MT= 66 (n, n') Level 44-Ru-97
 Cross Section -100.0 To 153.2 %



MAT 4428 MT= 67 (n, n') Level 44-Ru-97
 Cross Section -100.0 To 352.0 %

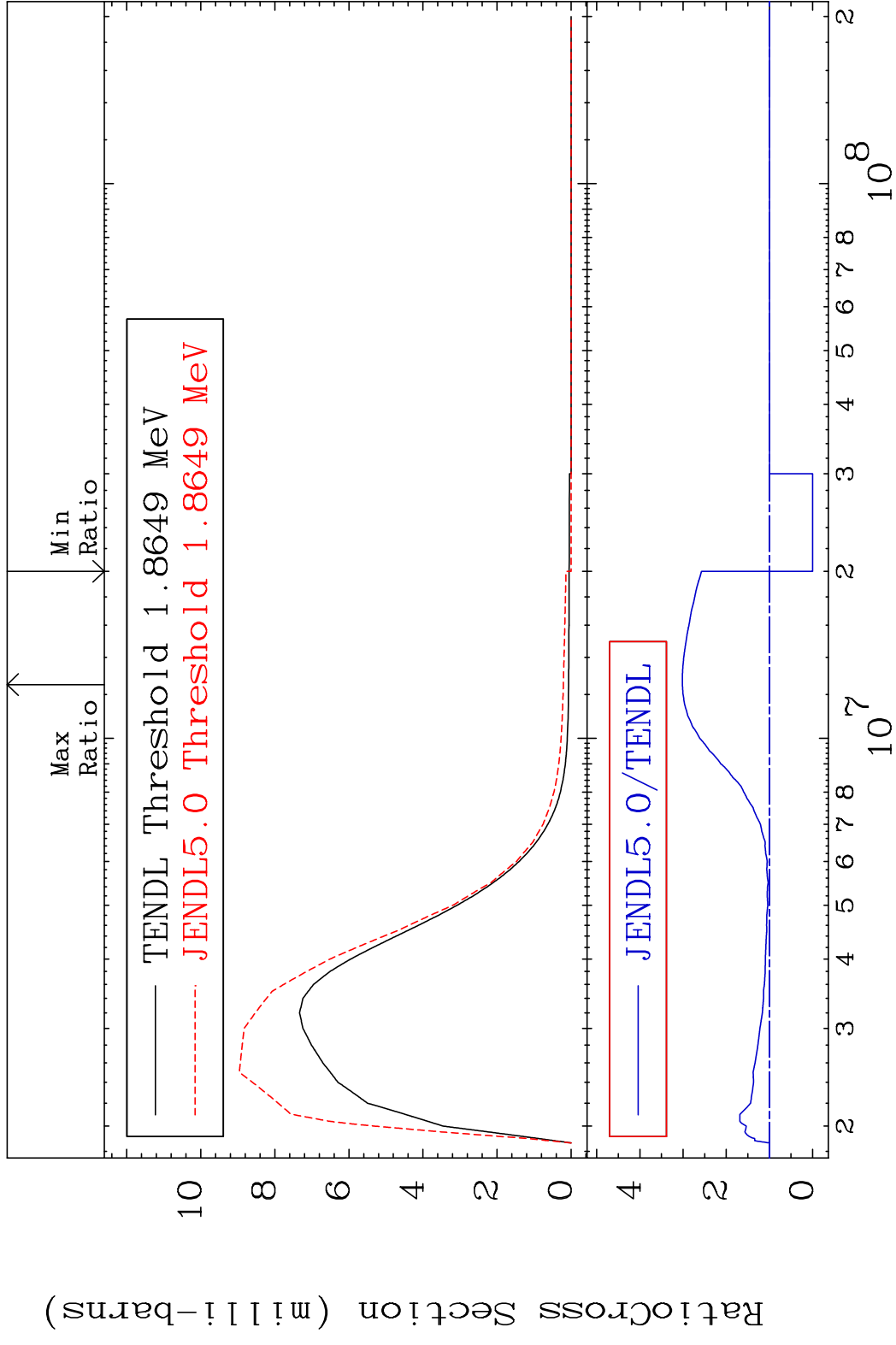


MAT 4428 MT= 68 (n, n') Level 44-Ru-97
 Cross Section -100.0 To 1105. %

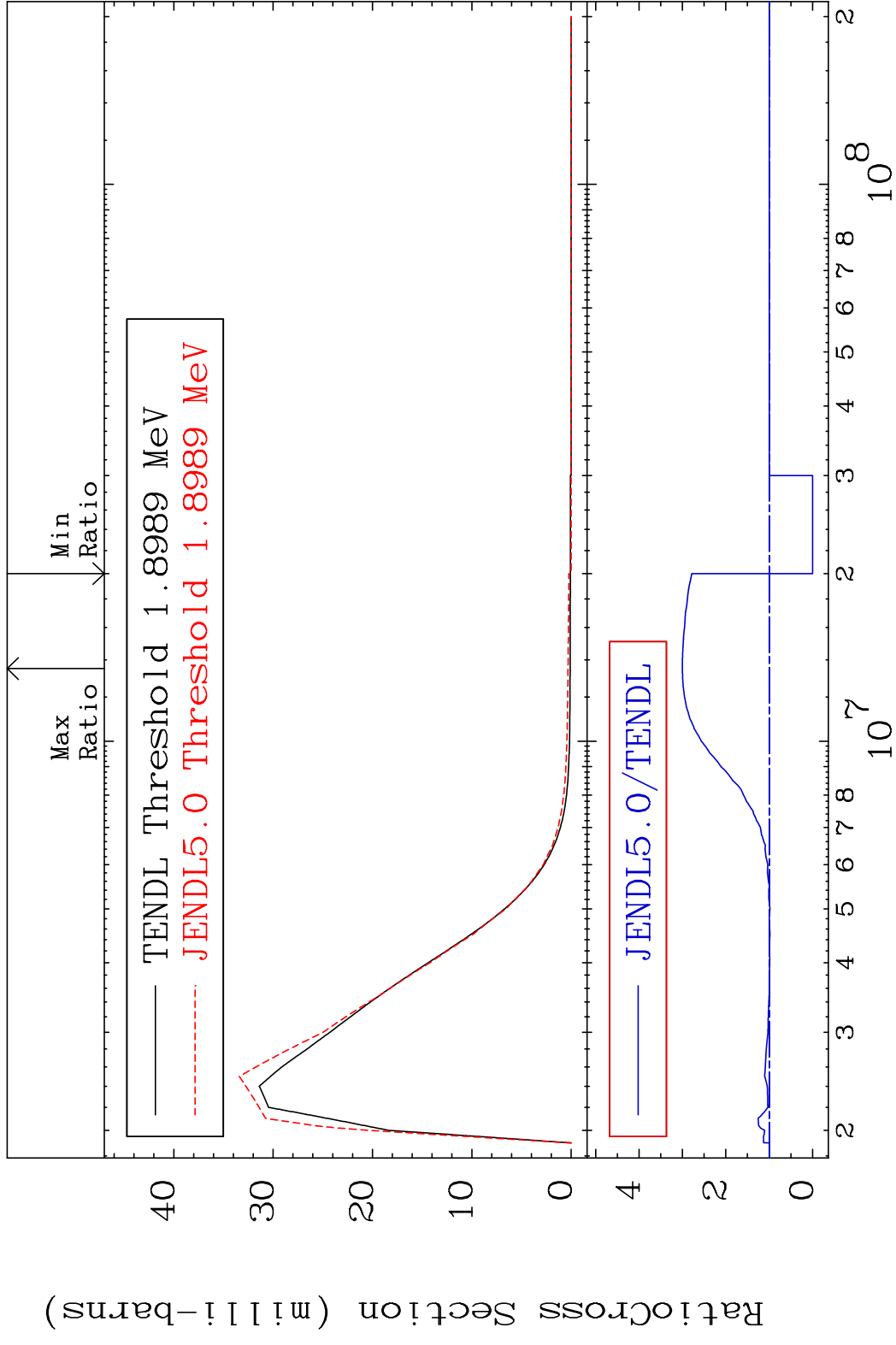


30 44-Ru-97

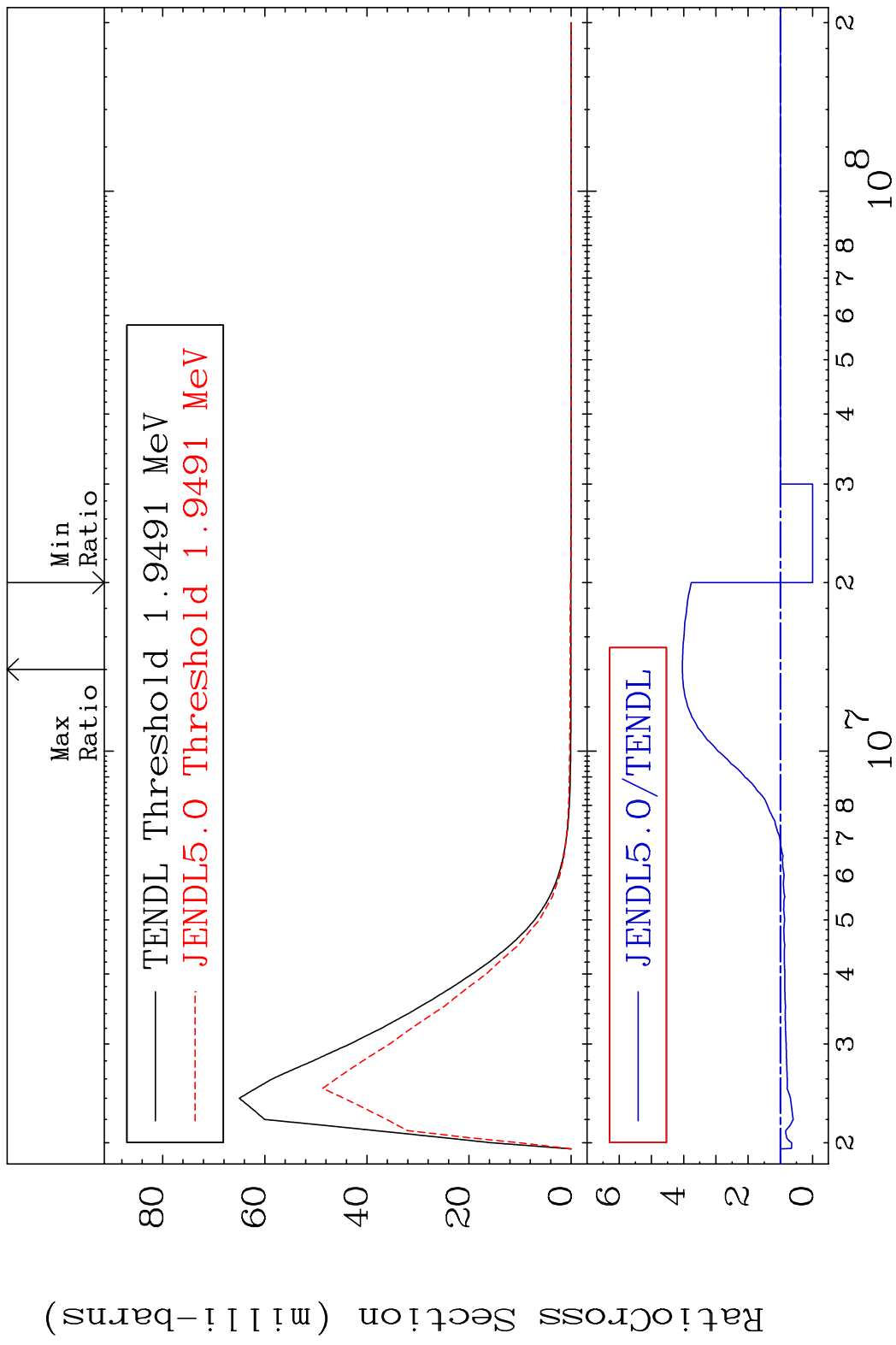
MAT 4428 MT= 69 (n, n') Level 44-Ru-97
 Cross Section -100.0 To 201.7 %



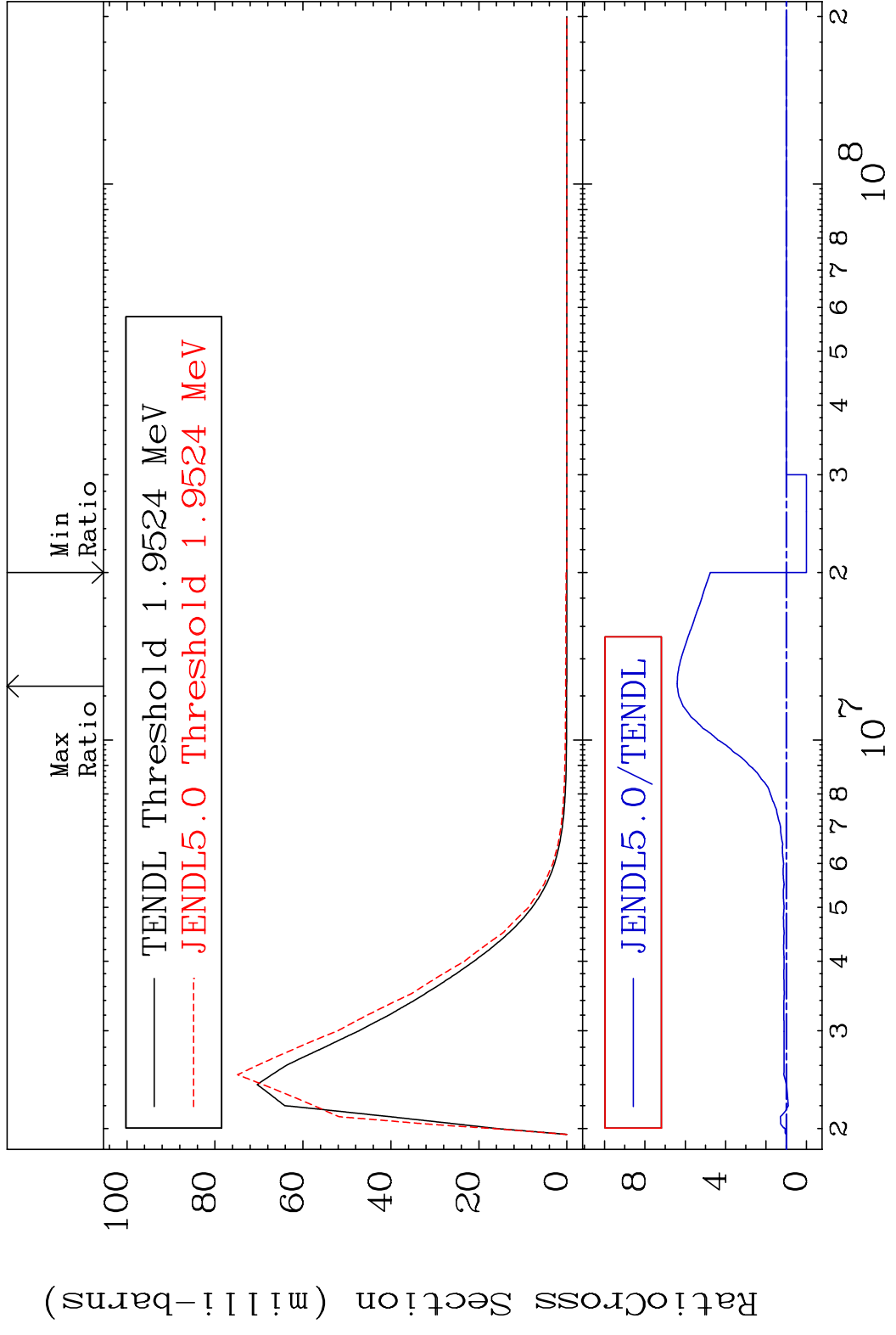
MAT 4428 MT= 70 (n, n') Level 44-Ru-97
 Cross Section -100.0 To 200.2 %



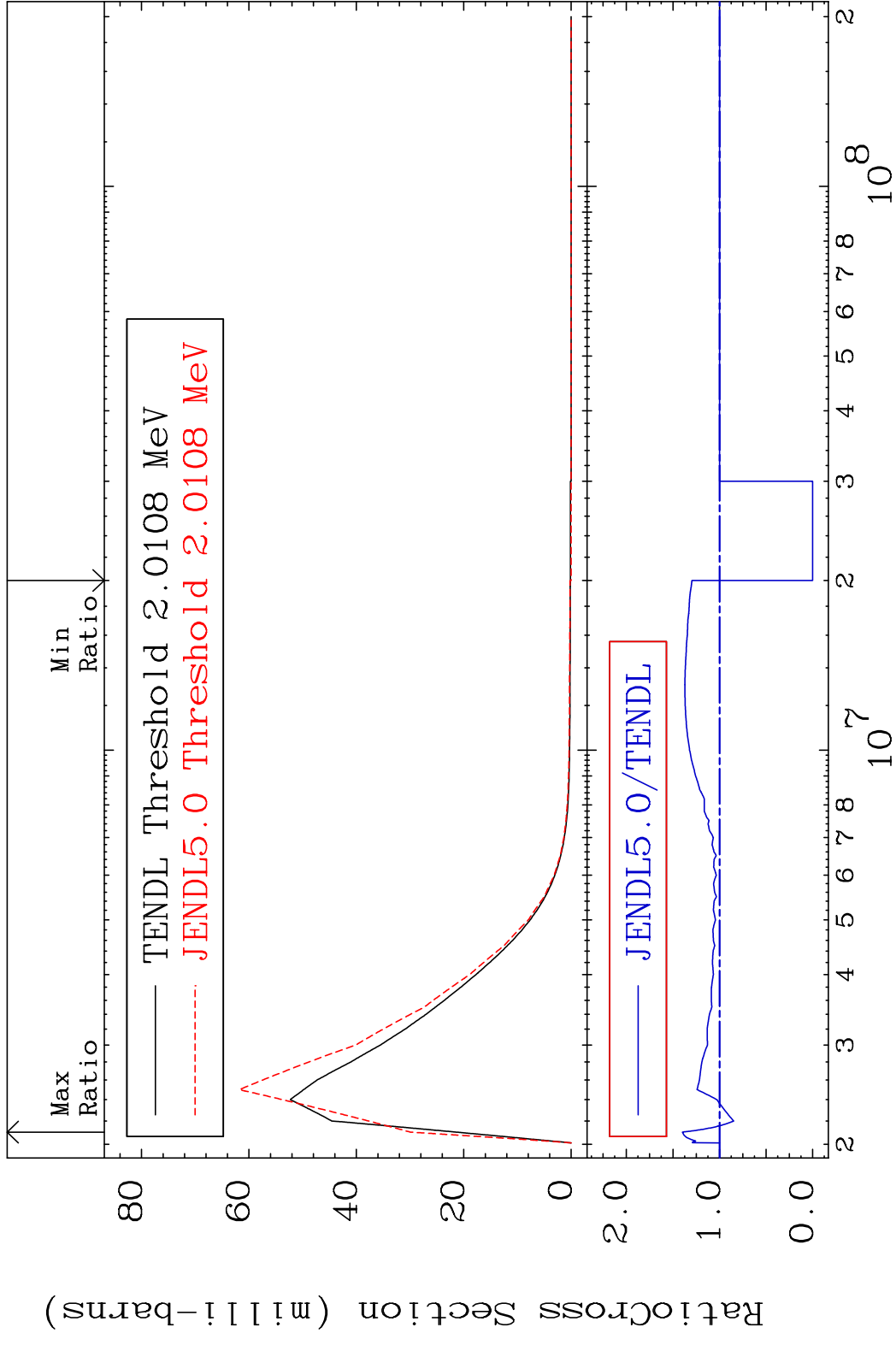
MAT 4428 MT= 71 (n, n') Level 44-Ru-97
 Cross Section -100.0 To 304.1 %



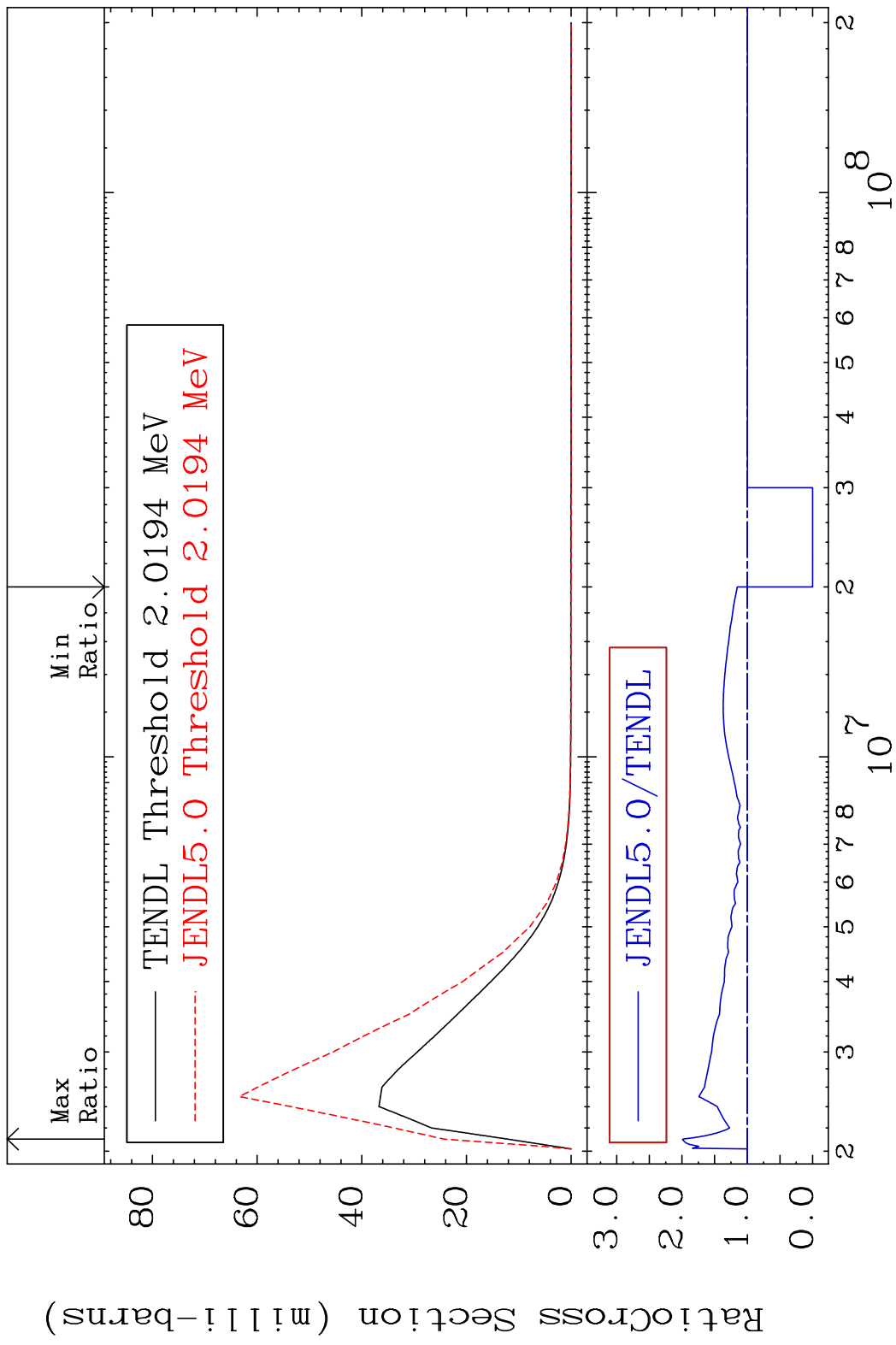
MAT 4428 MT= 72 (n, n') Level 44-Ru-97
 Cross Section -100.0 To 540.3 %



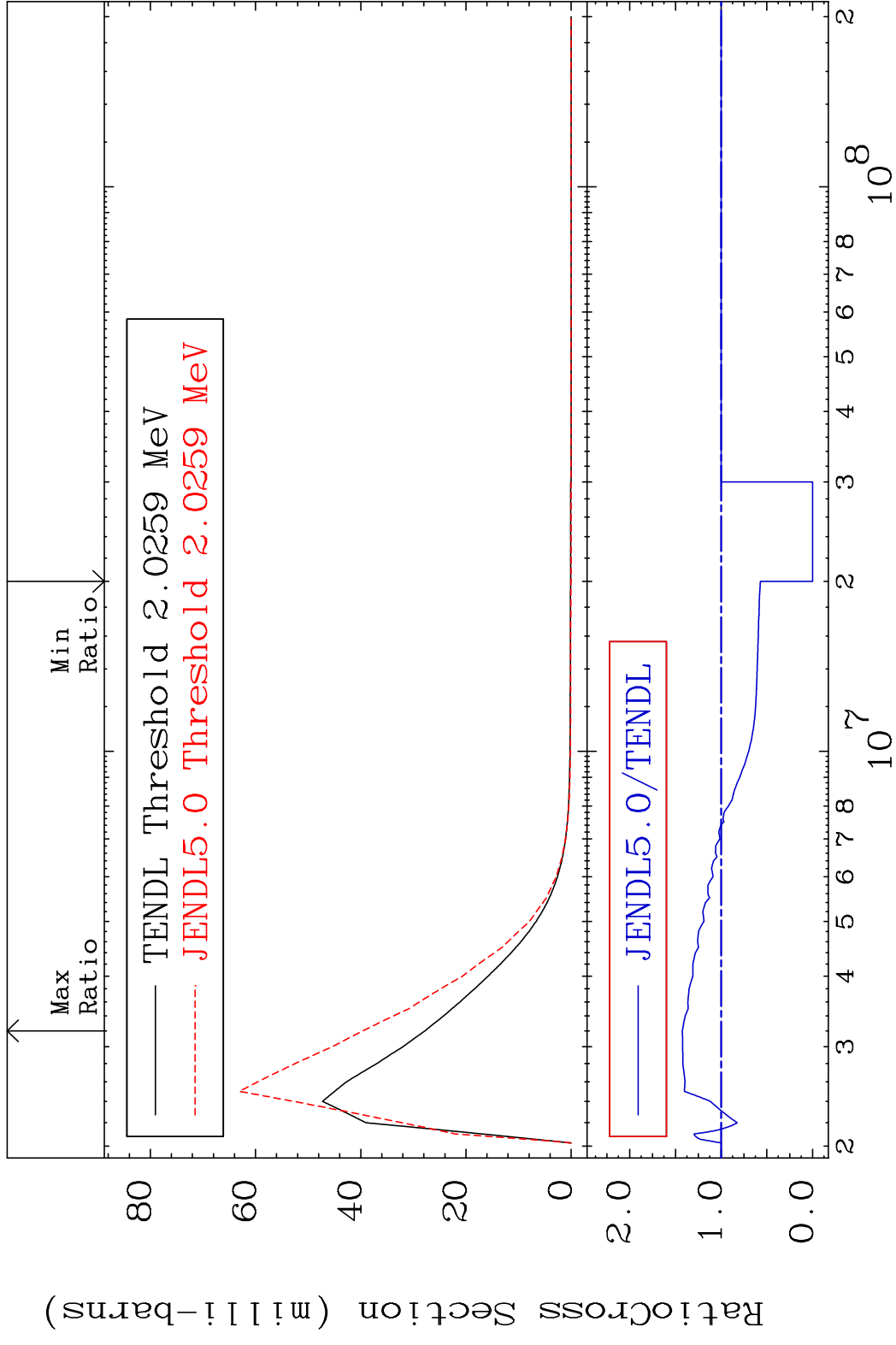
MAT 4428 MT= 73 (n, n') Level 44-Ru-97
 Cross Section -100.0 To 39.87 %



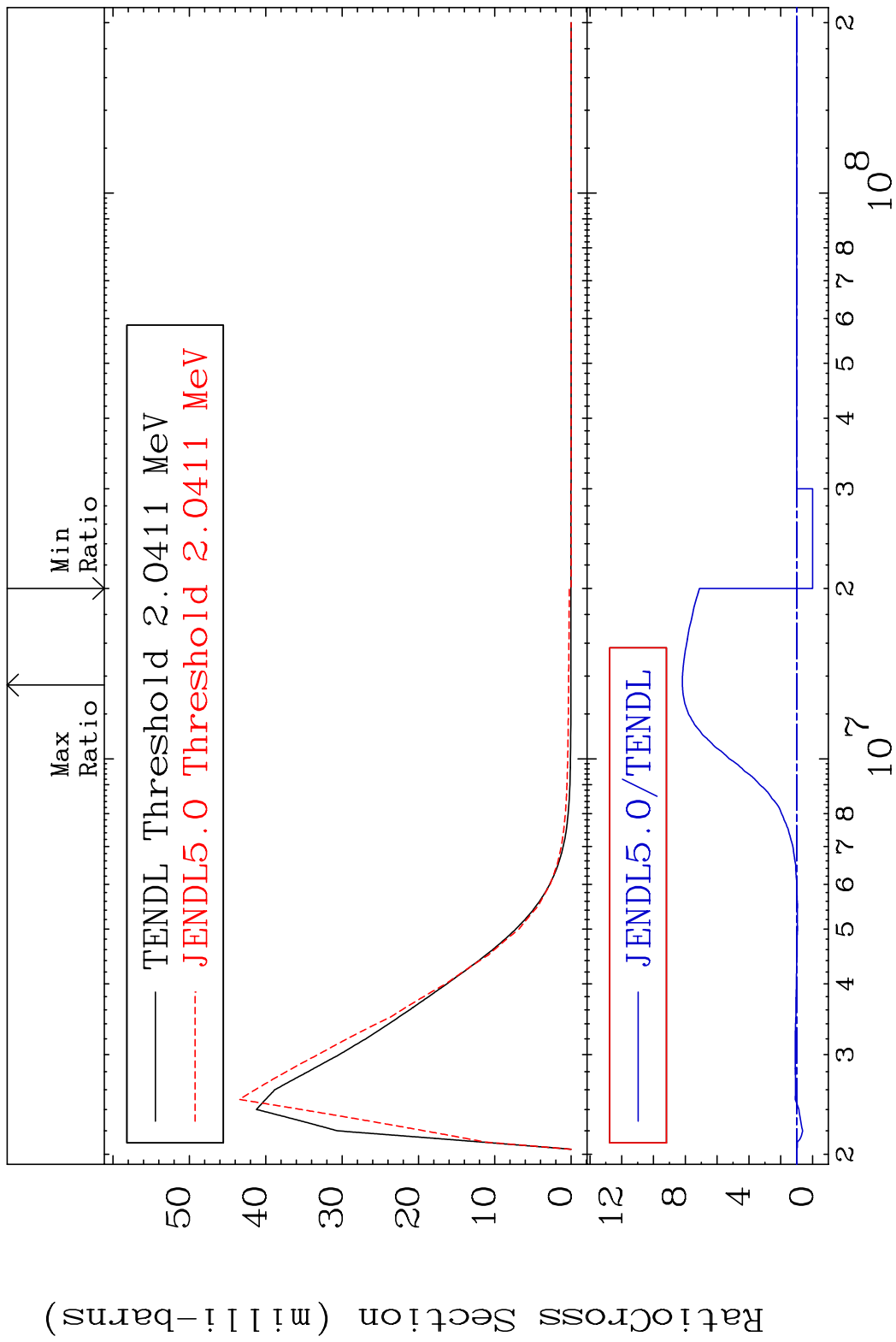
MAT 4428 MT= 74 (n, n') Level 44-Ru-97
 Cross Section -100.0 To 99.48 %



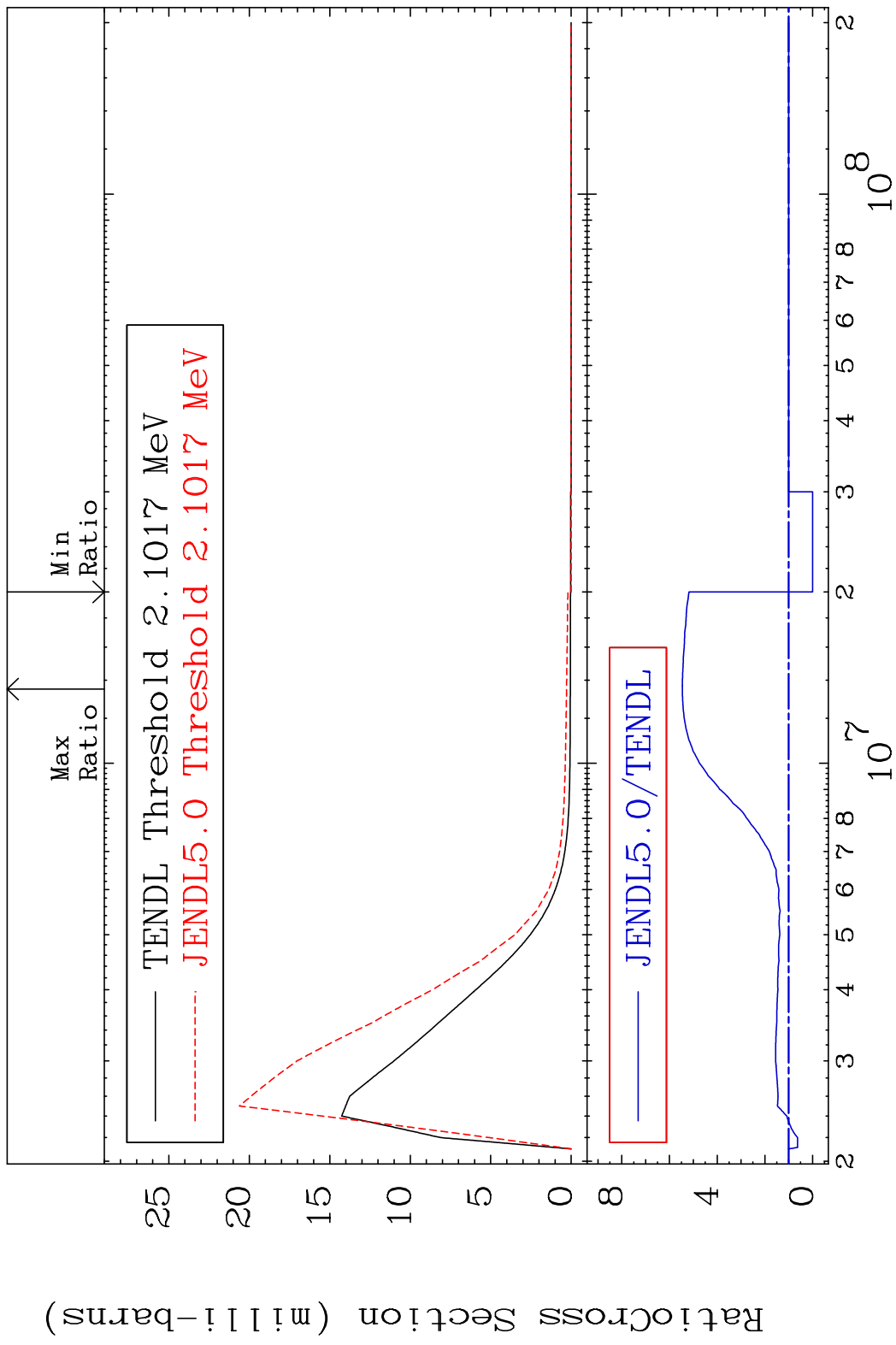
MAT 4428 MT= 75 (n, n') Level 44-Ru-97
 Cross Section -100.0 To 42.44 %



MAT 4428 MT= 76 (n, n') Level 44-Ru-97
 Cross Section -100.0 To 718.8 %



MAT 4428 MT= 77 (n, n') Level 44-Ru-97
 Cross Section -100.0 To 446.0 %

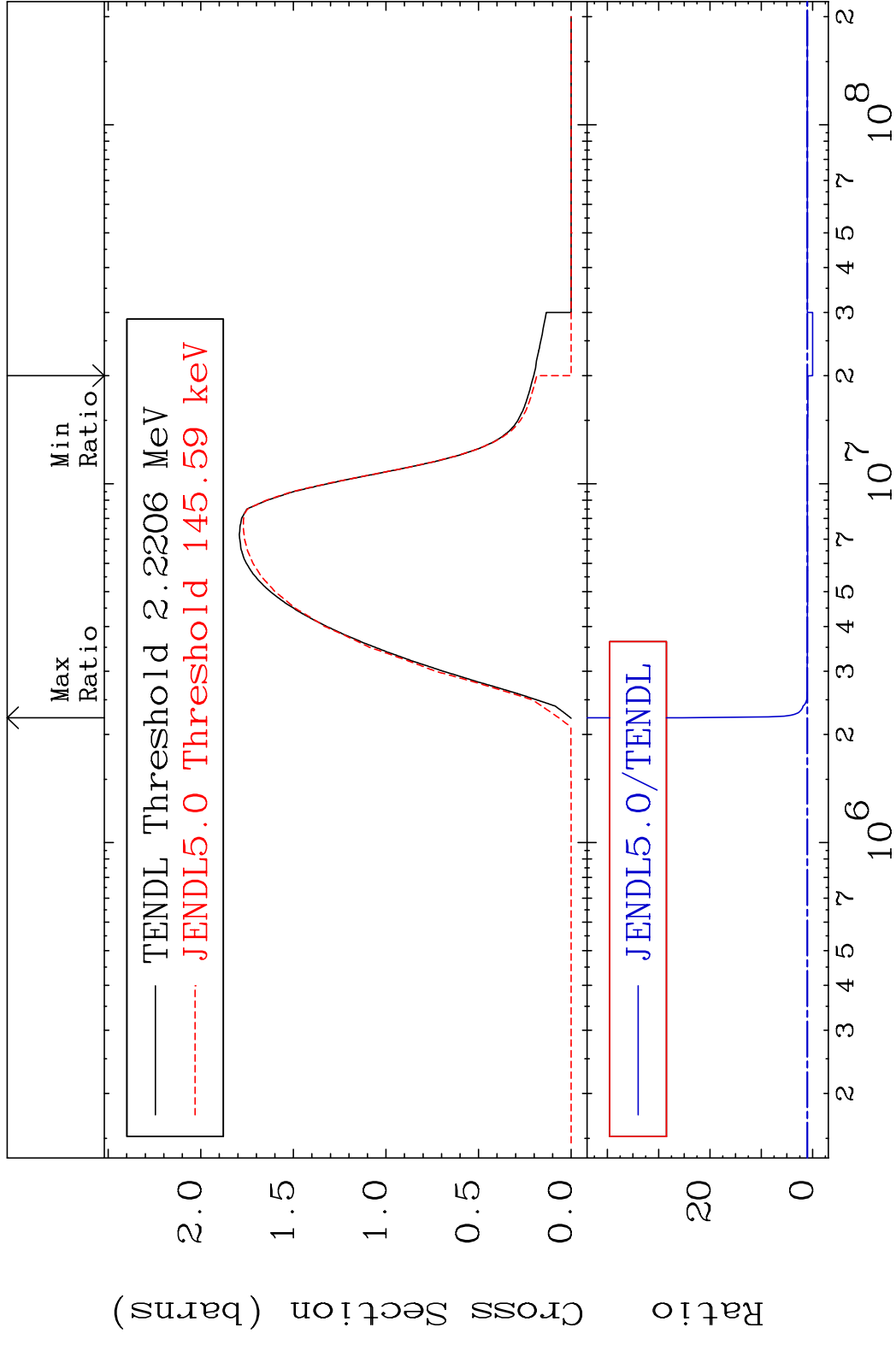


MAT 4428

(n, n') Continuum

44-Ru-97

Cross Section -100.0 To 2437. %



40

Incident Energy (eV)

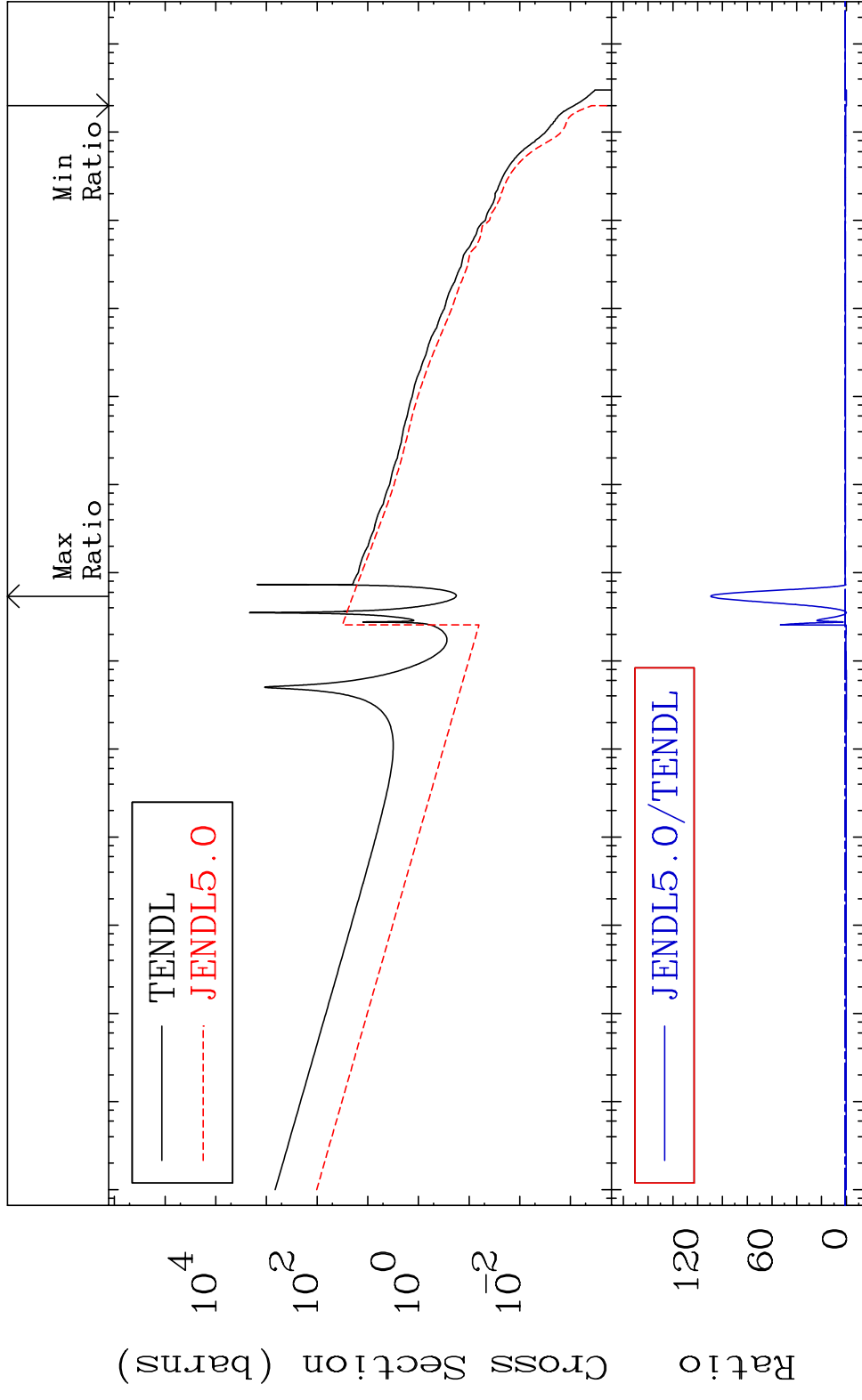
44-Ru-97

MAT 4428

44-Ru-97

(n, γ)

Cross Section -100.0 To 9999. %



Incident Energy (eV)

41

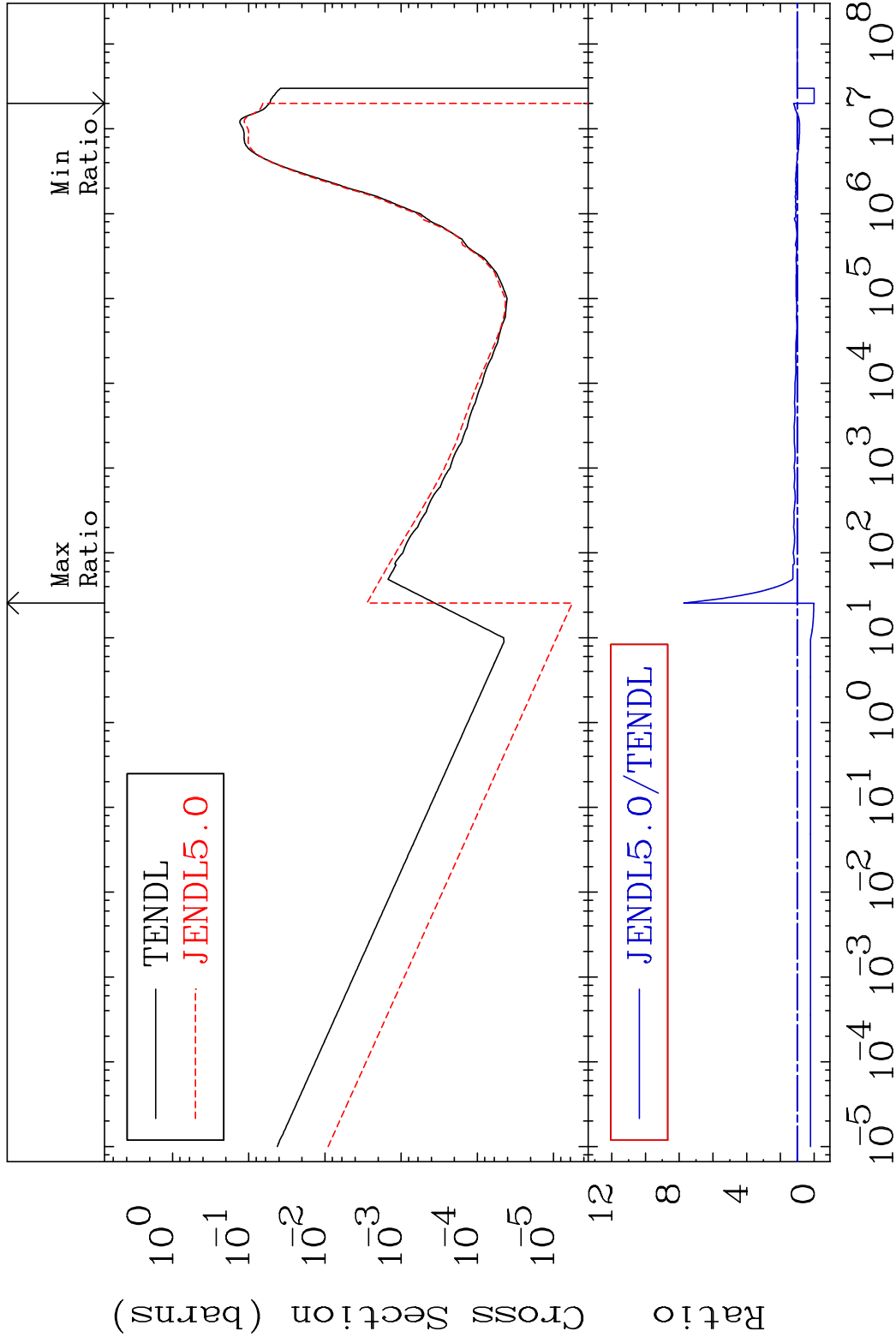
44-Ru-97

MAT 4428

(n, p)

44-Ru-97

Cross Section -100.0 To 673.5 %



42

Incident Energy (eV)

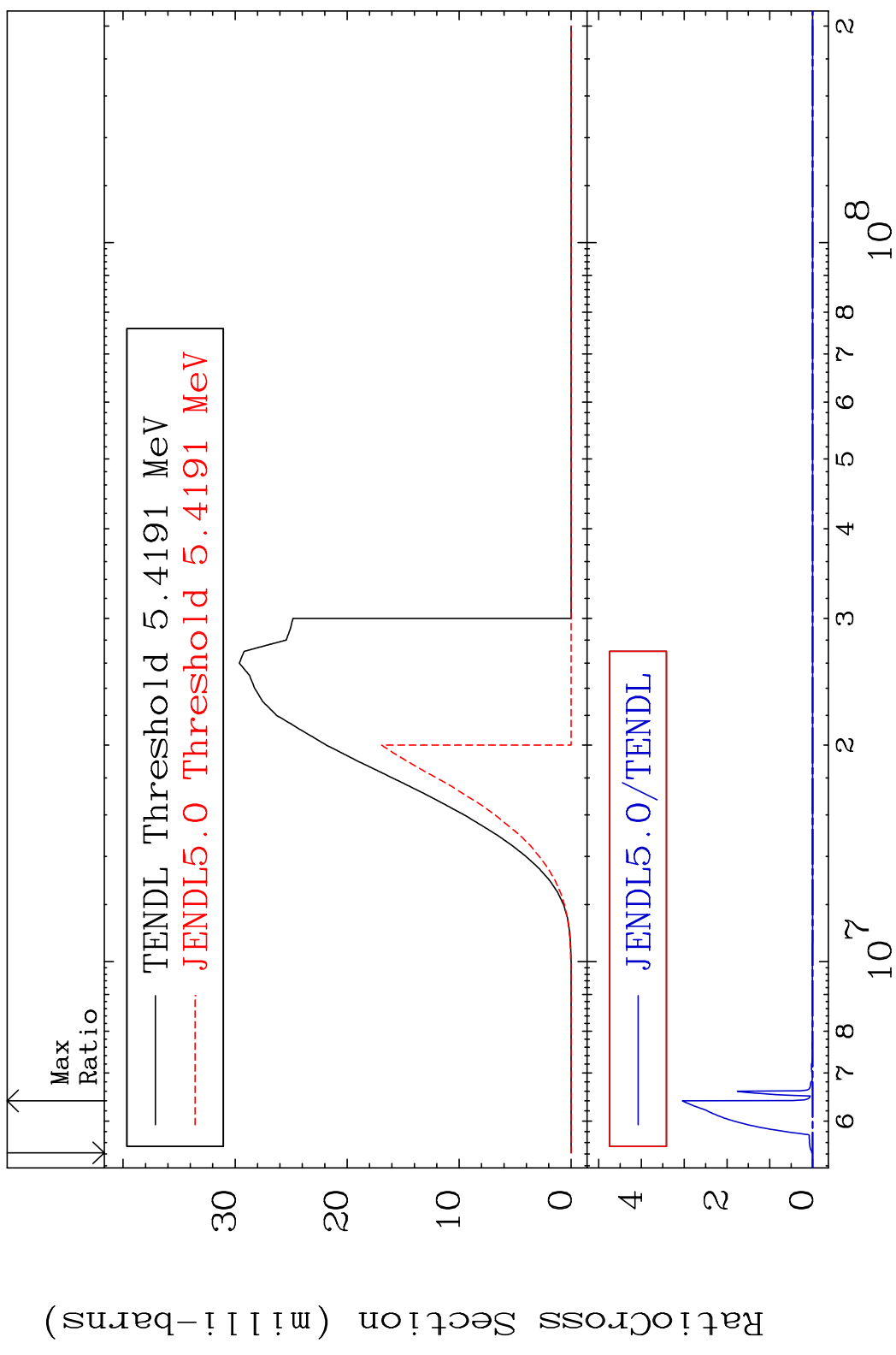
44-Ru-97

MAT 4428

(n,d)

44-Ru-97

Cross Section -100.0 To 9999. %



43

Incident Energy (eV)

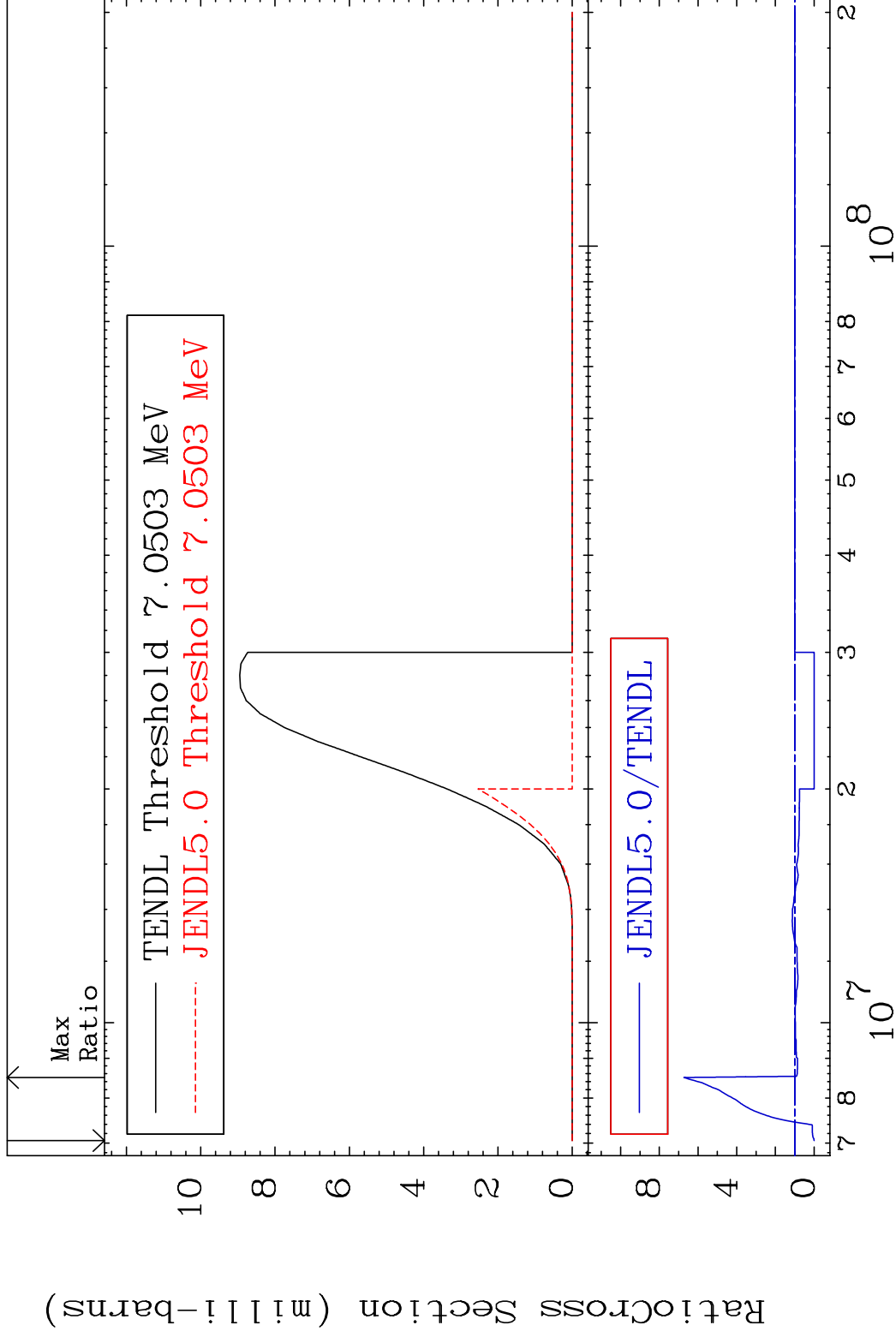
44-Ru-97

MAT 4428

(n, t)

44-Ru-97

Cross Section -100.0 To 574.3 %



44

Incident Energy (eV)

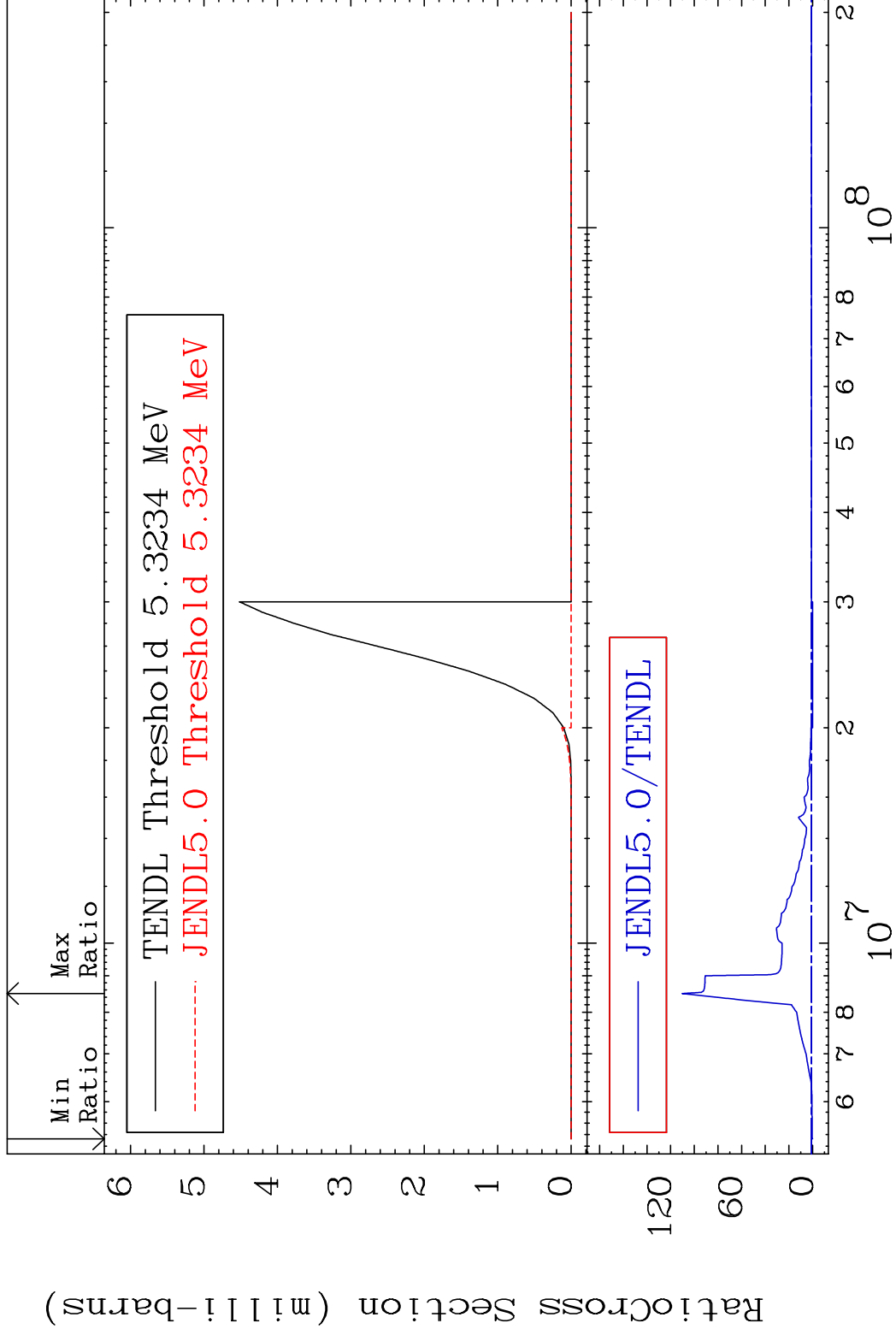
44-Ru-97

MAT 4428

(n, He-3)

44-Ru-97

Cross Section -100.0 To 9999. %



45

Incident Energy (eV)

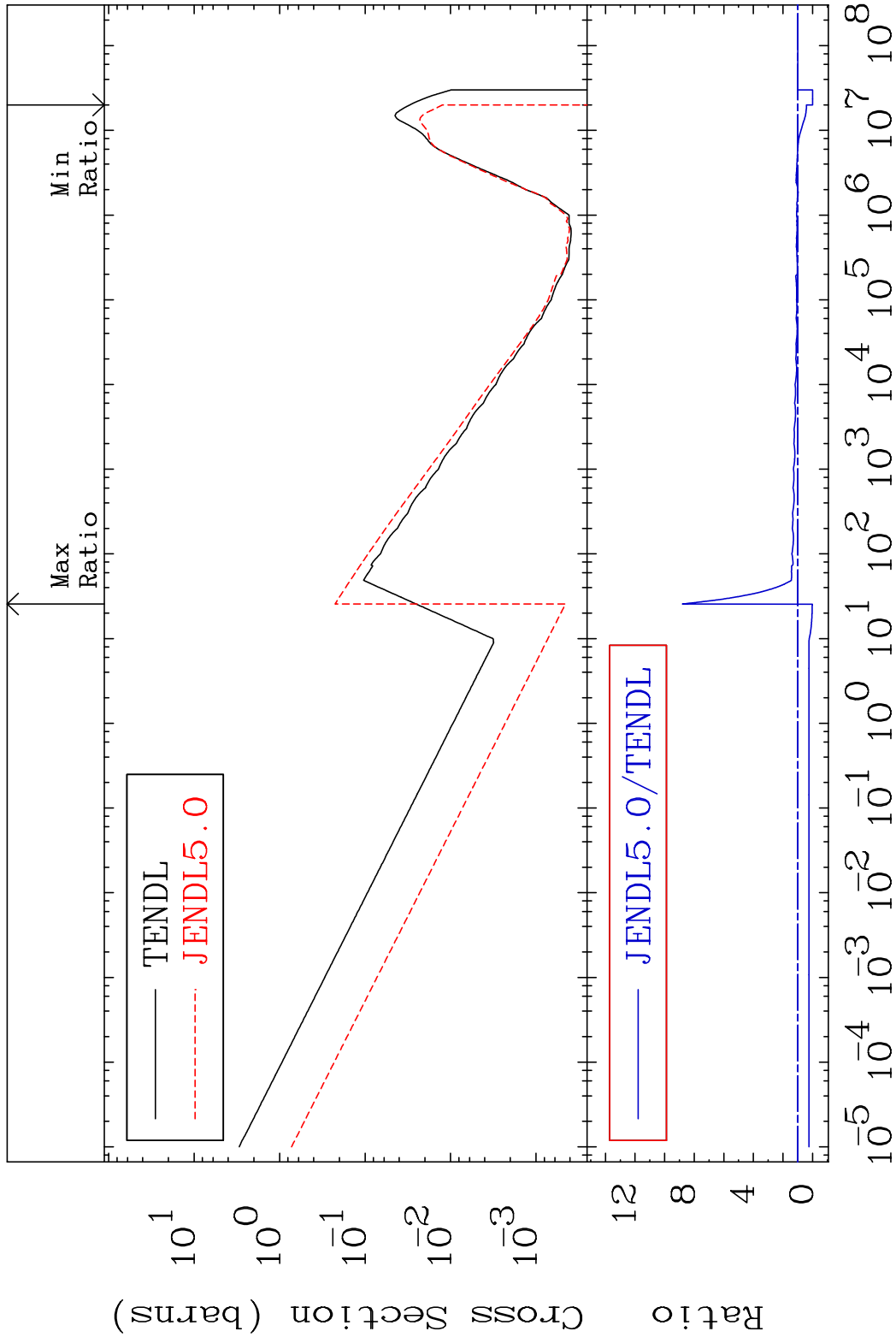
44-Ru-97

MAT 4428

(n, α)

Cross Section -100.0 To 780.2 %

44-Ru-97



46

Incident Energy (eV)

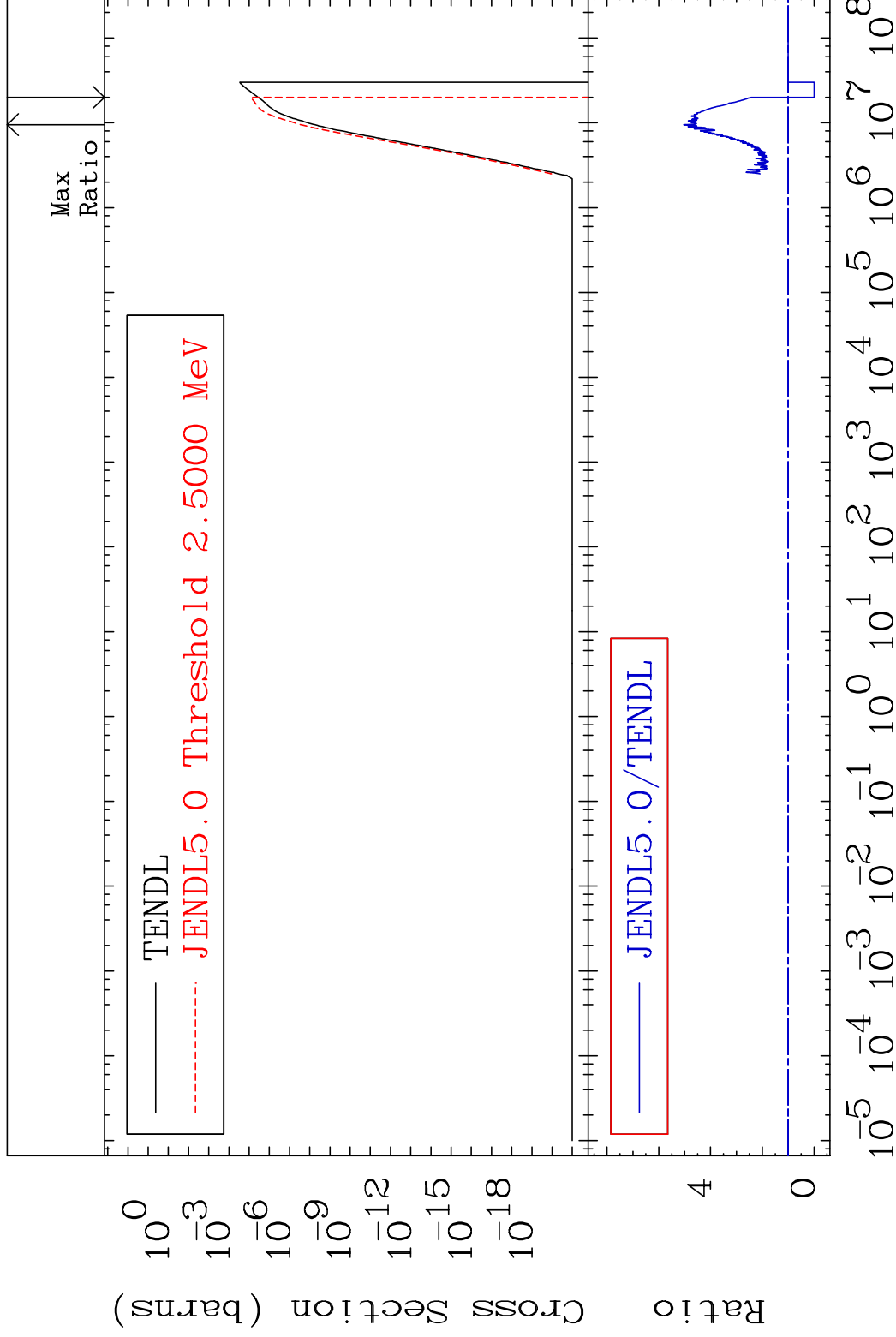
44-Ru-97

MAT 4428

(n, 2α)

44-Ru-97

Cross Section -100.0 To 403.8 %

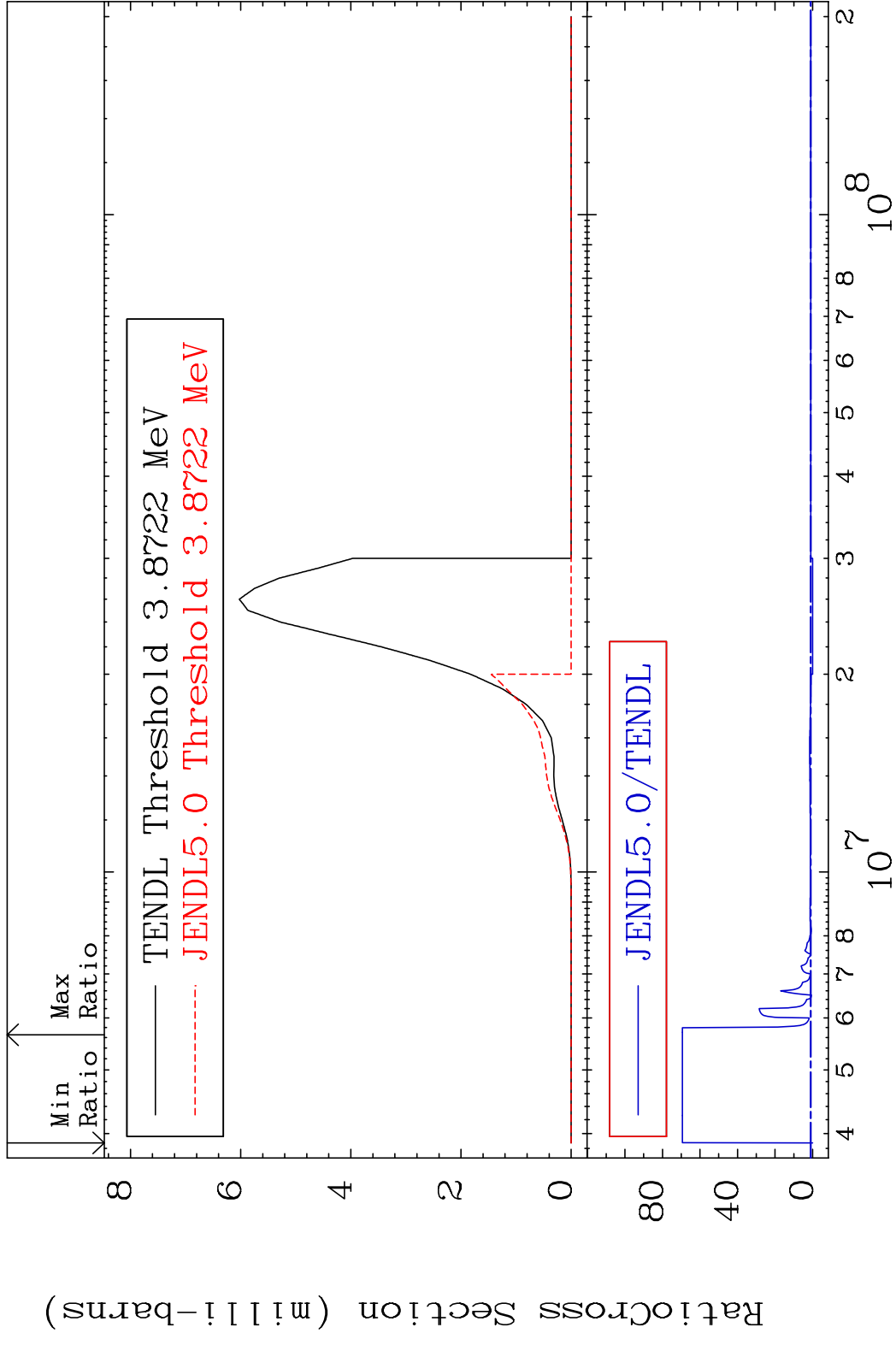


47

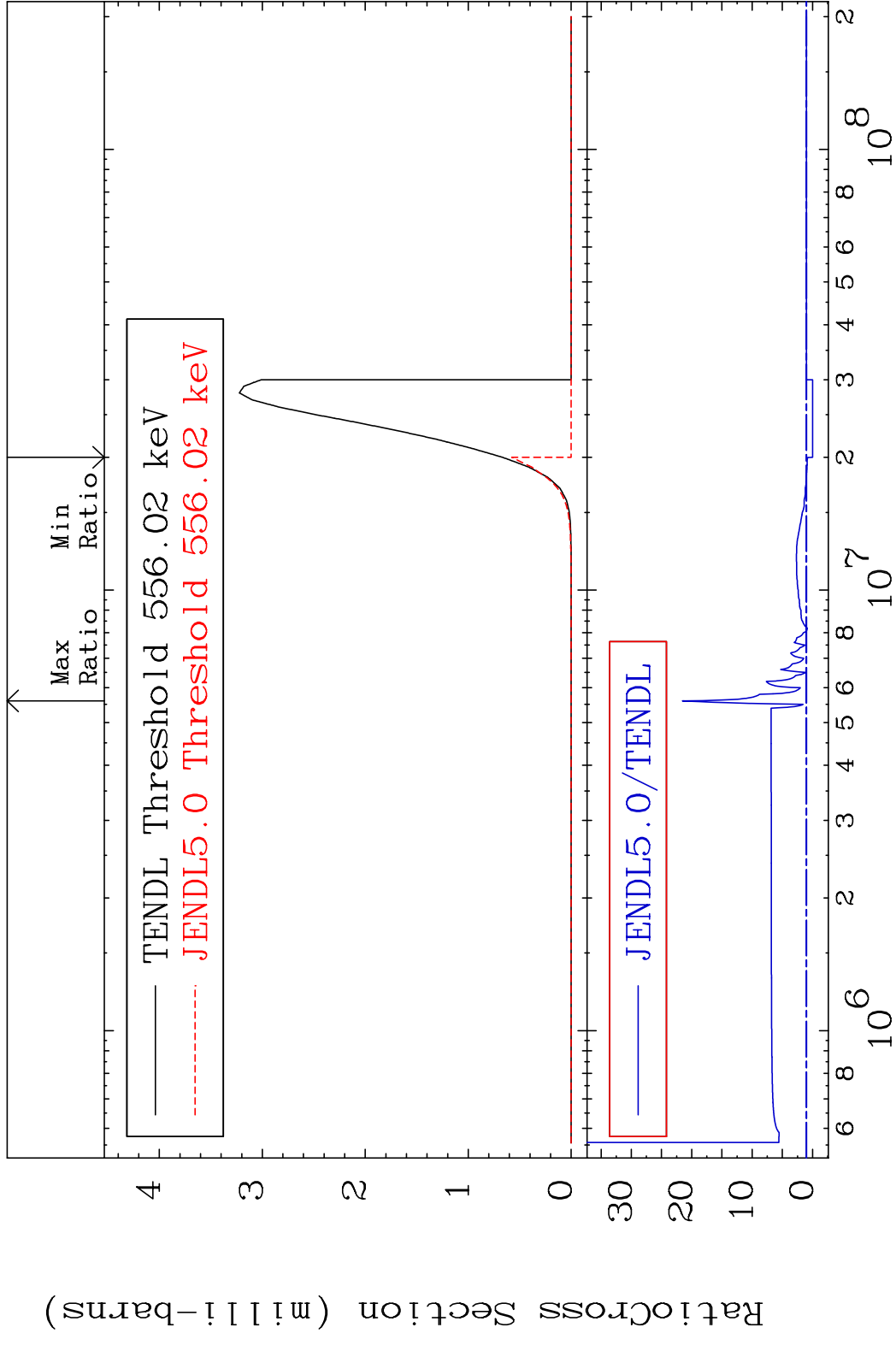
Incident Energy (eV)

44-Ru-97

MAT 4428 (n,2p) 44-Ru-97
 Cross Section -100.0 To 6841. %



MAT 4428 (n,p) α 44-Ru-97
 Cross Section -100.0 To 2055. %

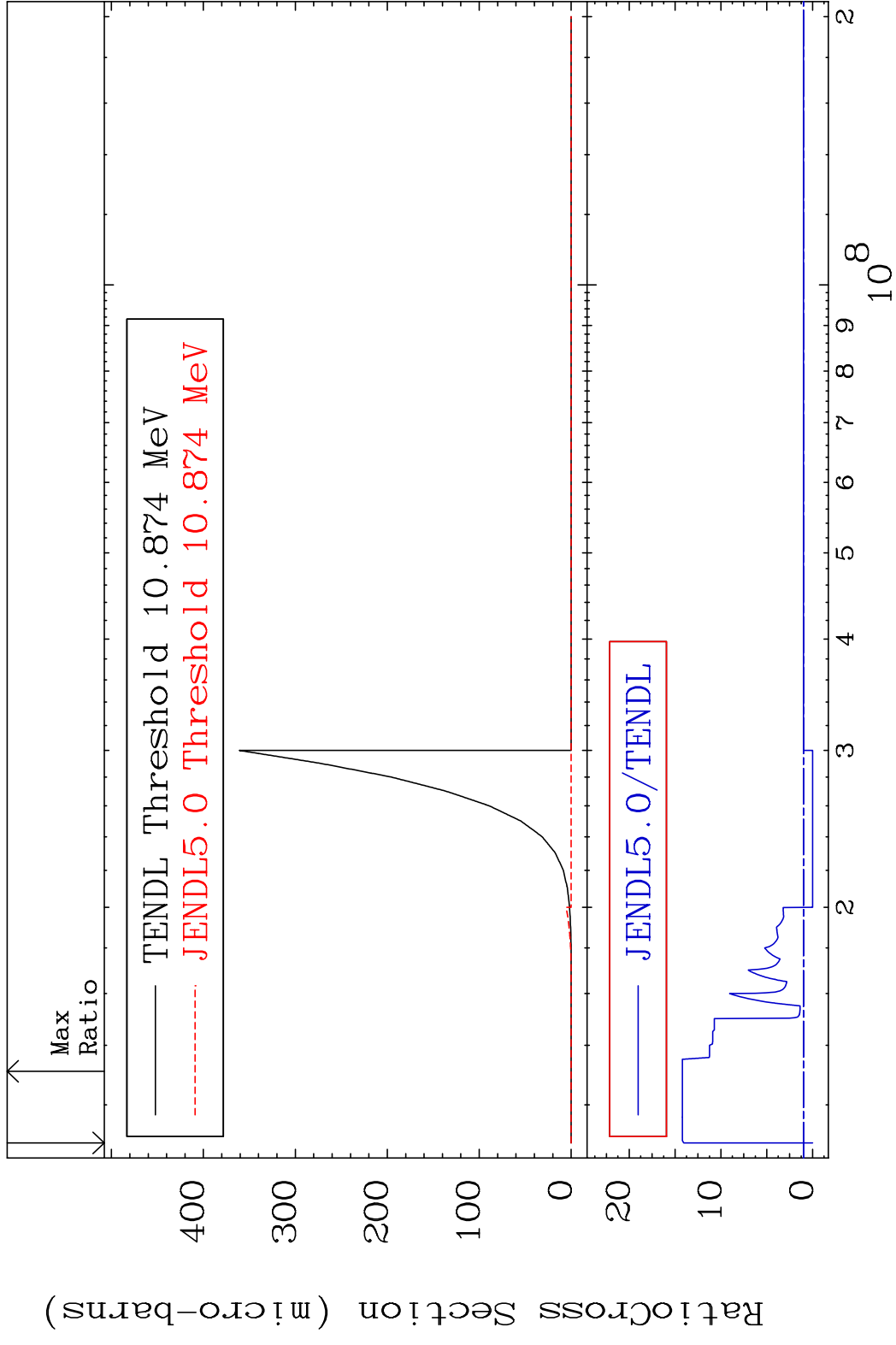


MAT 4428

(n,p) d

44-Ru-97

Cross Section -100.0 To 1321. %

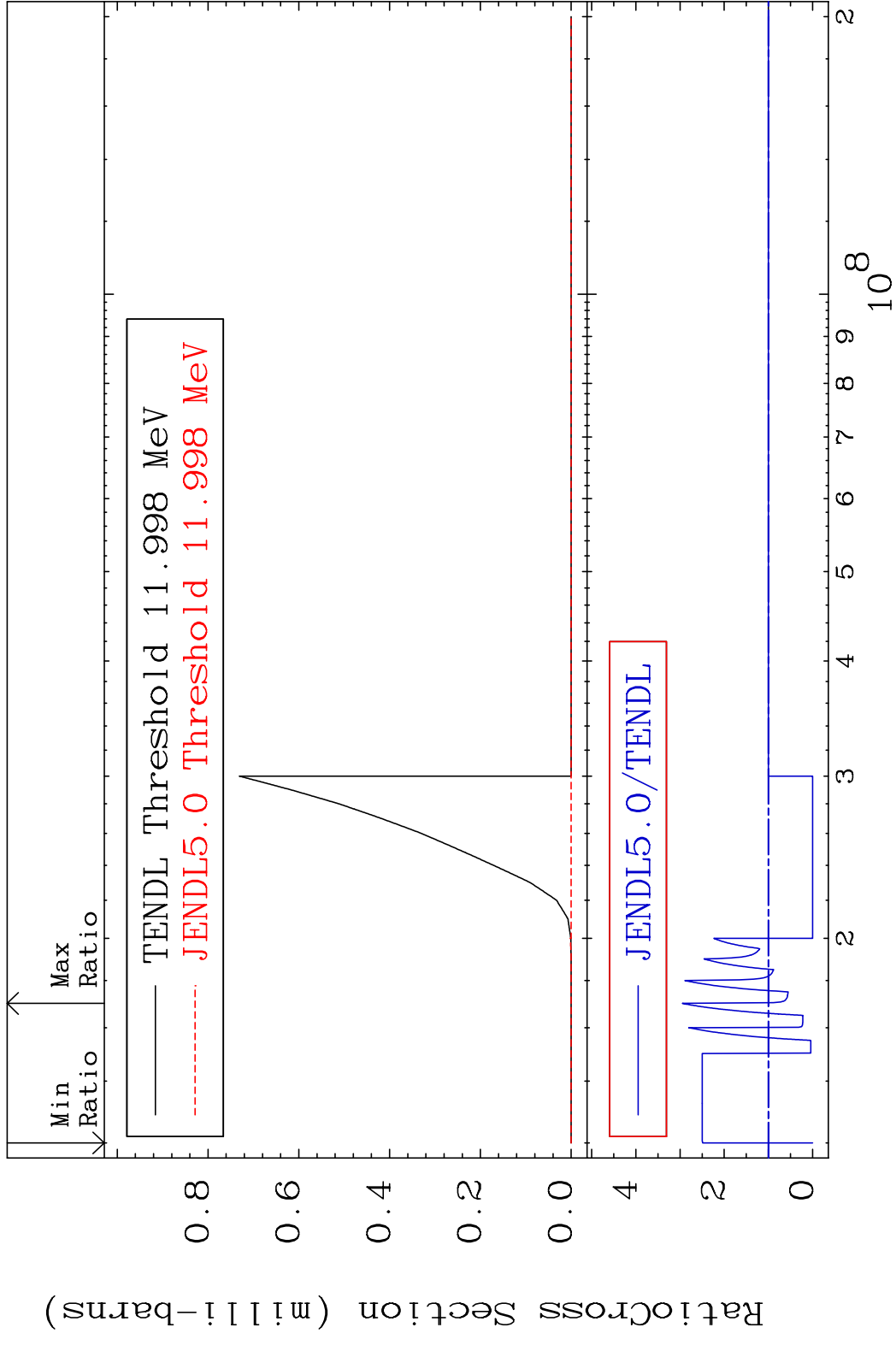


50

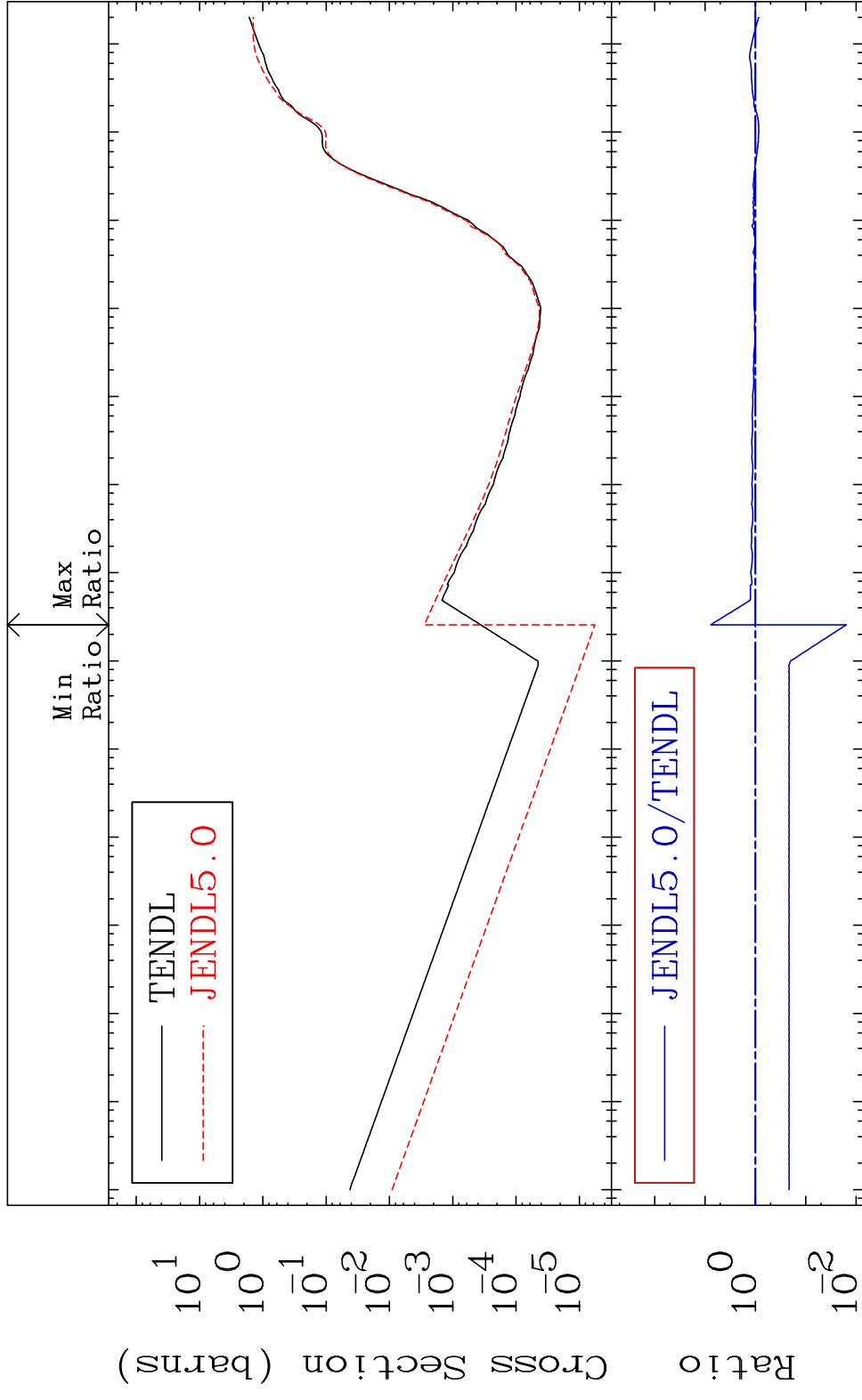
Incident Energy (eV)

44-Ru-97

MAT 4428 (n,p) t 44-Ru-97
 Cross Section -100.0 To 194.8 %

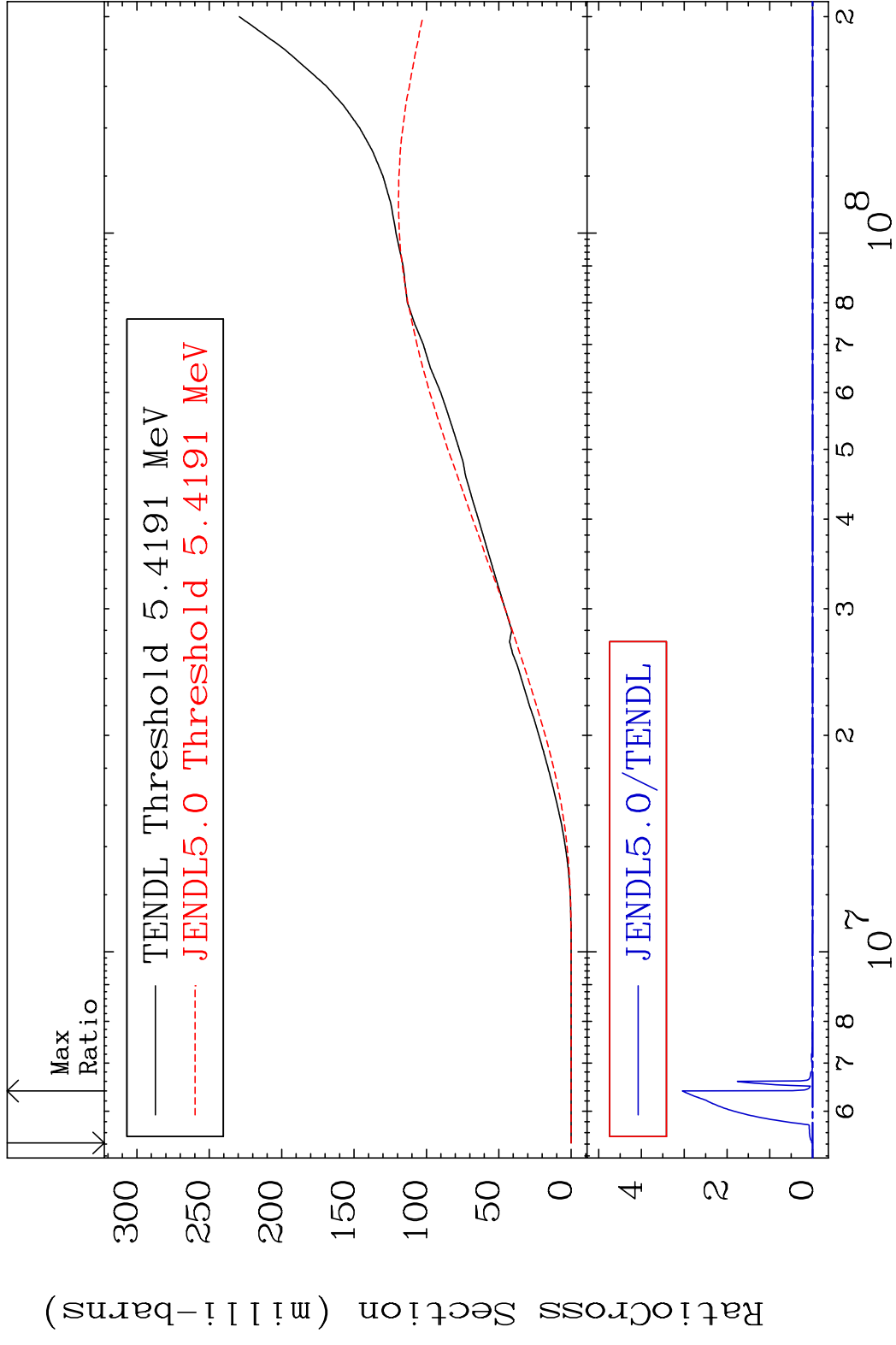


MAT 4428 Hydrogen Production 44-Ru-97
 Cross Section -98.44 To 673.5 %



52 Incident Energy (eV) 44-Ru-97

MAT 4428 Deuterium Production 44-Ru-97
 Cross Section -100.0 To 9999. %

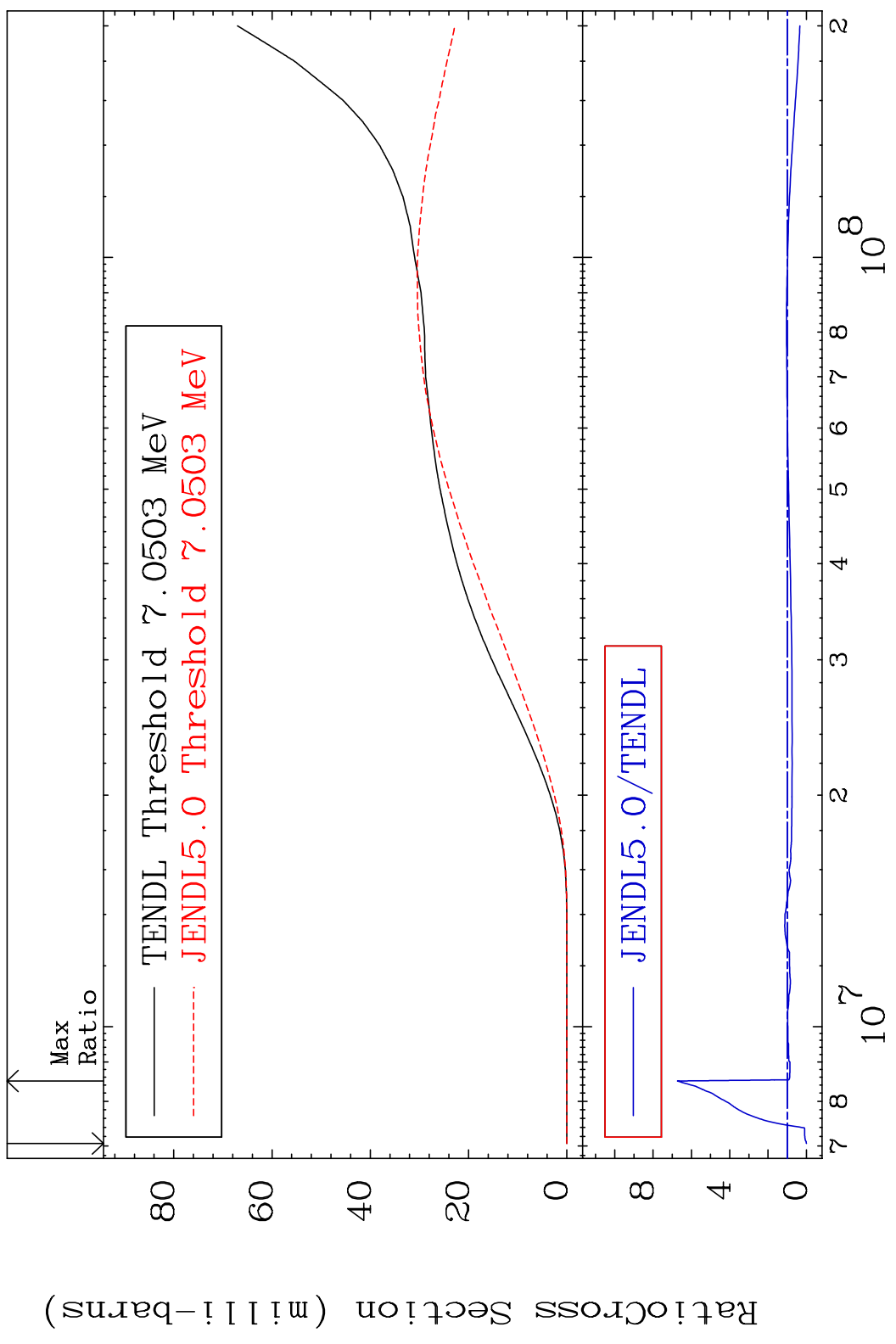


MAT 4428

Tritium Production

44-Ru-97

Cross Section -100.0 To 574.3 %



54

Incident Energy (eV)

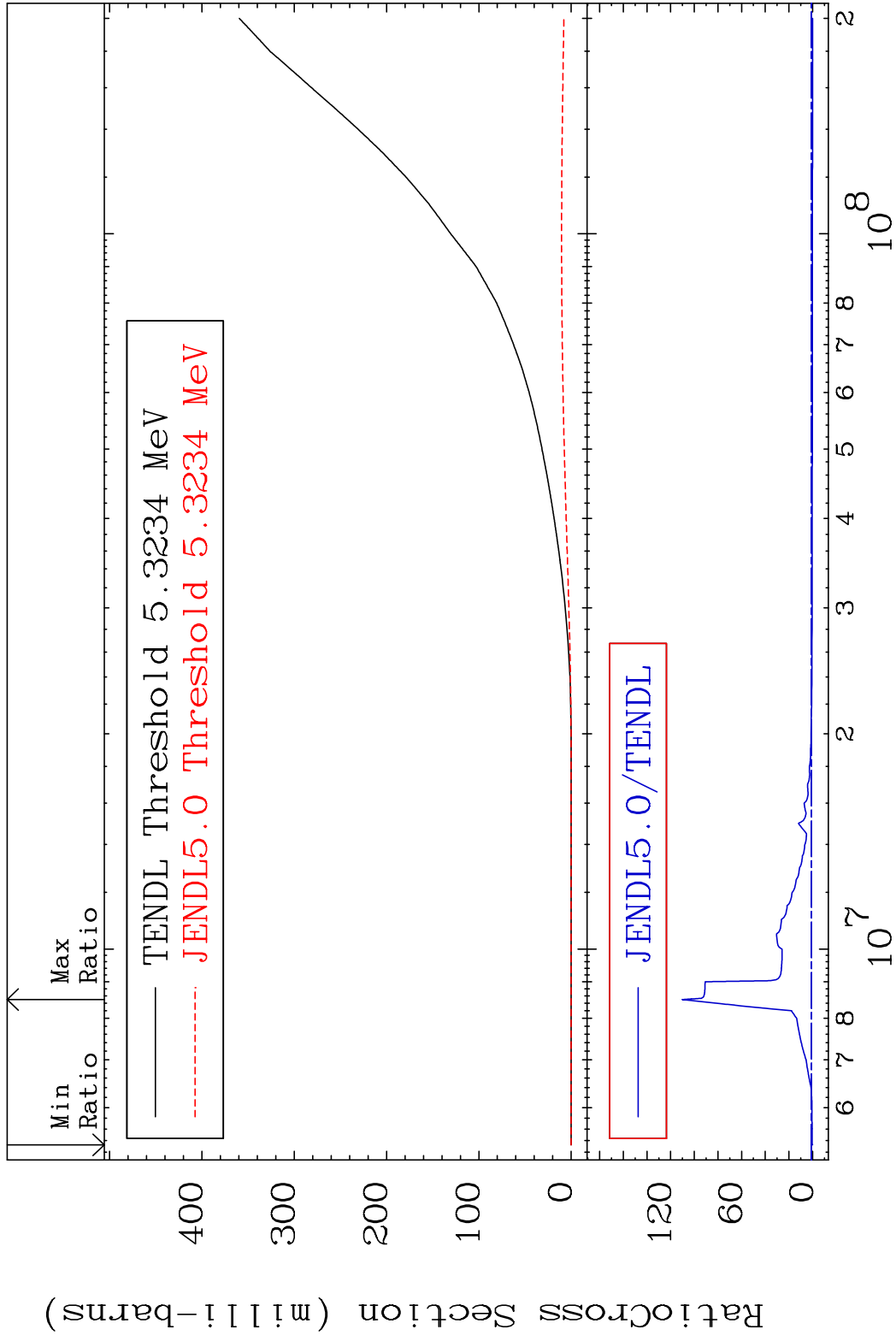
44-Ru-97

MAT 4428

He-3 Production

44-Ru-97

Cross Section -100.0 To 9999. %



55

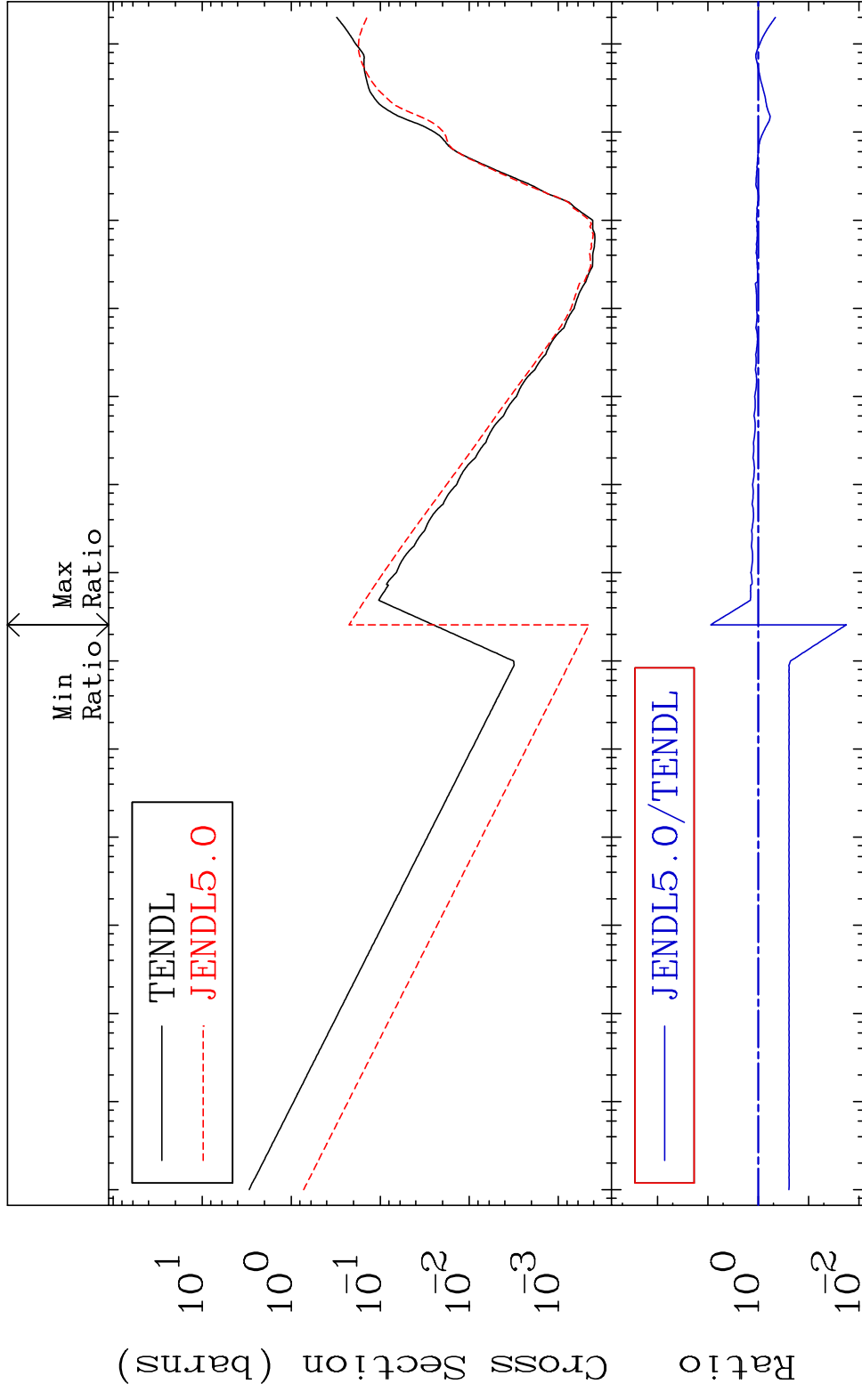
44-Ru-97

MAT 4428

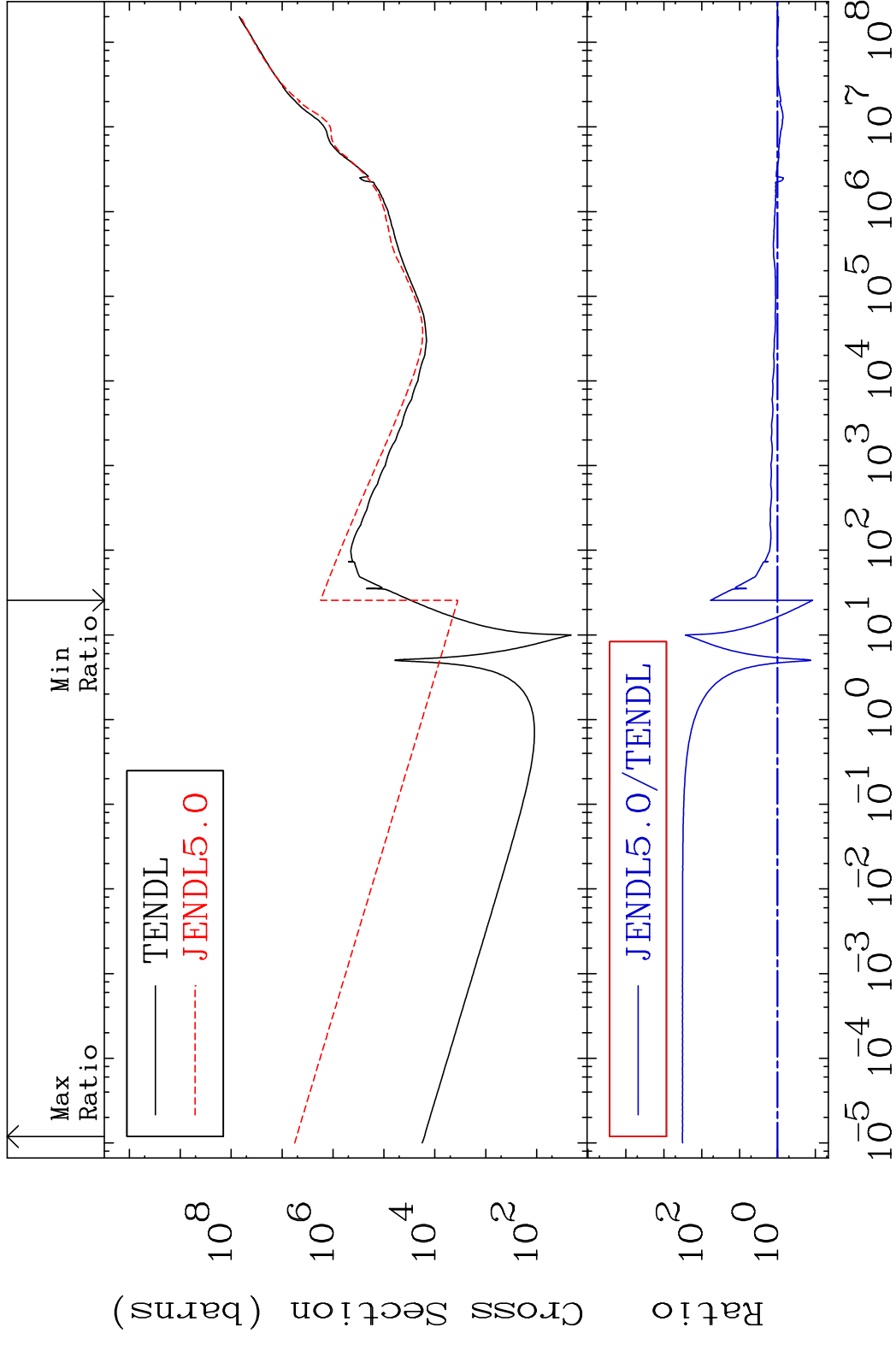
He-4 Production

44-Ru-97

Cross Section -98.22 To 780.2 %



MAT 4428 Kerma total (eV-barns) 44-Ru-97
 Cross Section -88.19 To 9999. %

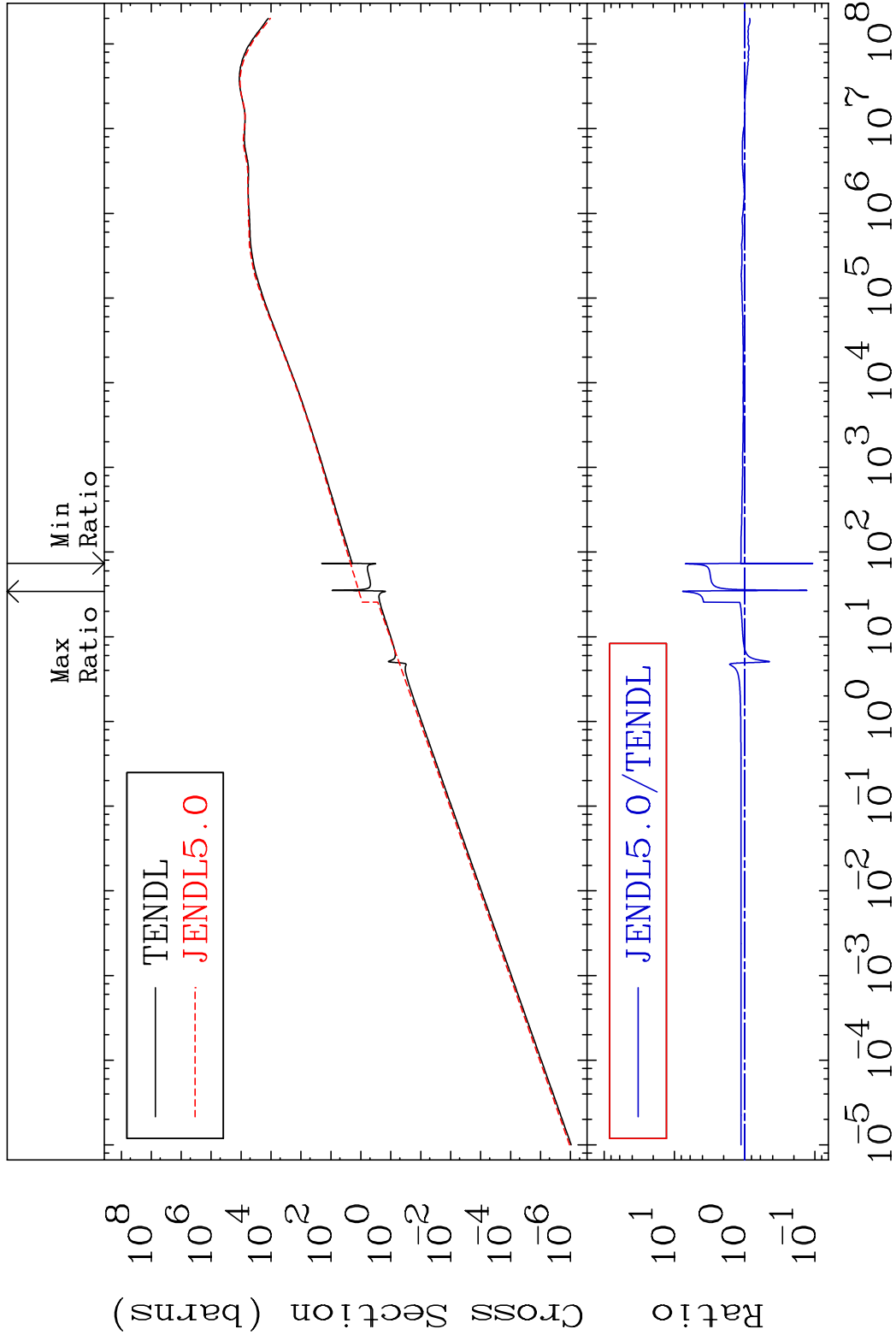


MAT 4428

Kerma elastic

44-Ru-97

Cross Section -89.17 To 671.9 %

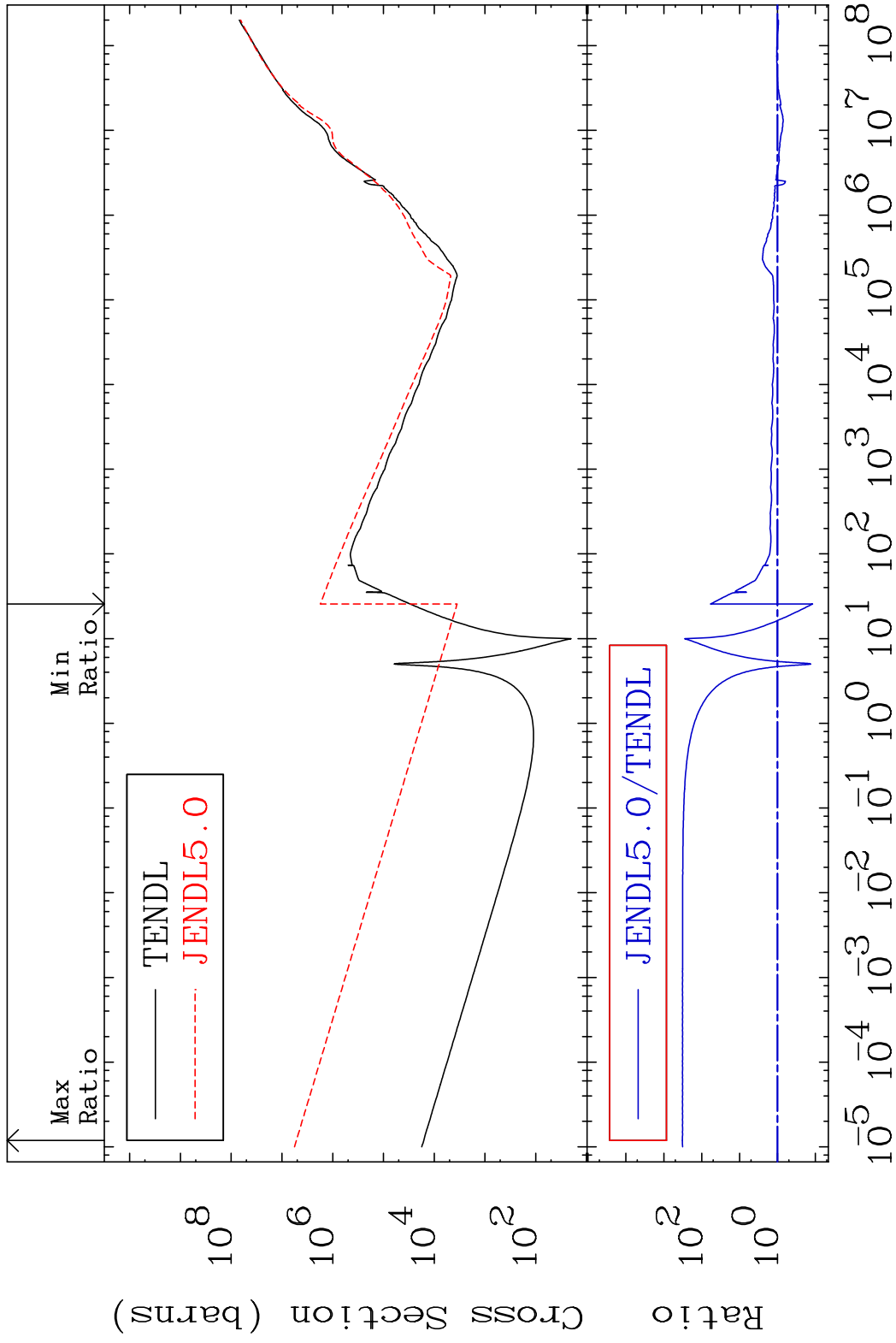


58

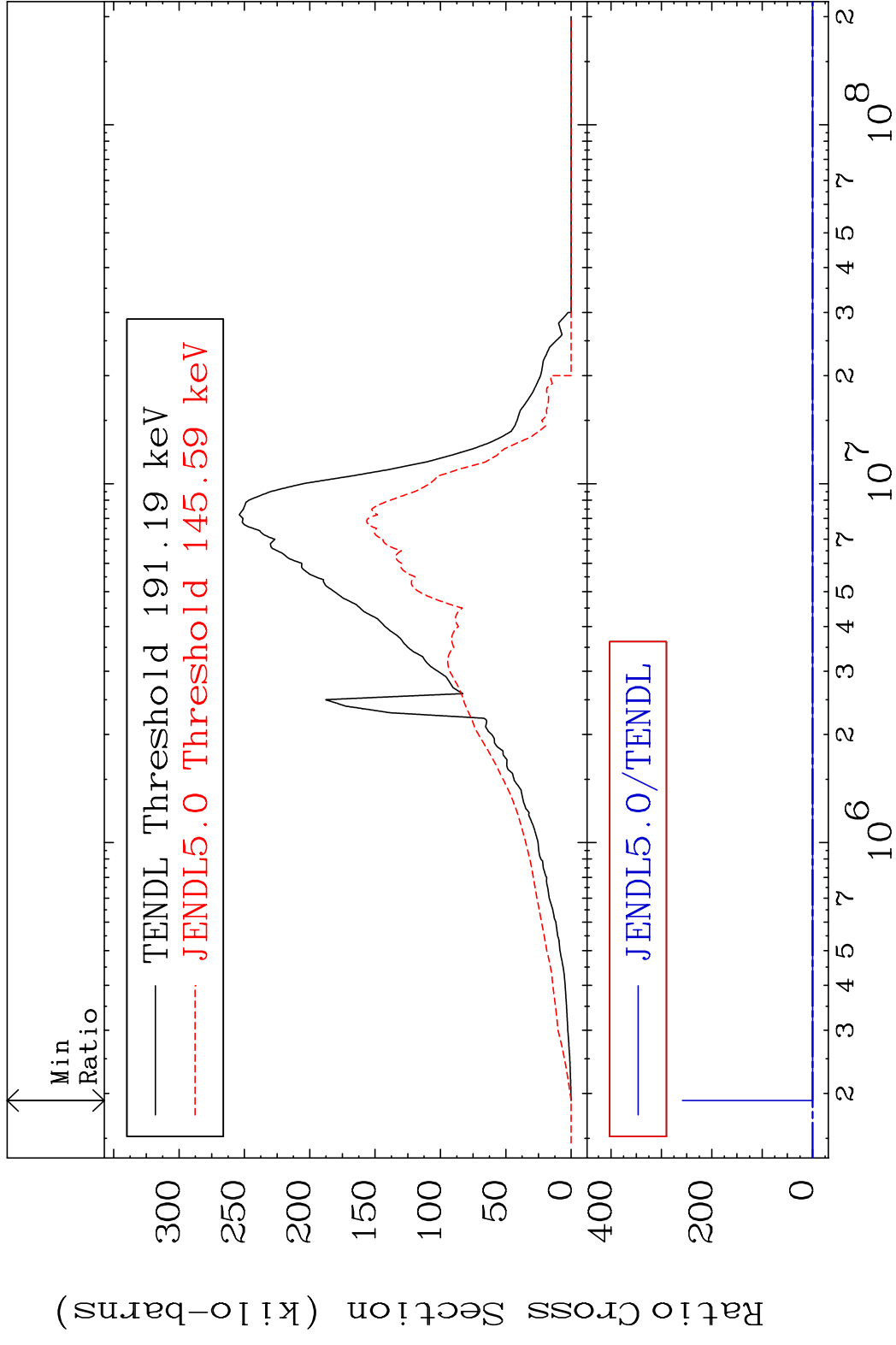
Incident Energy (eV)

44-Ru-97

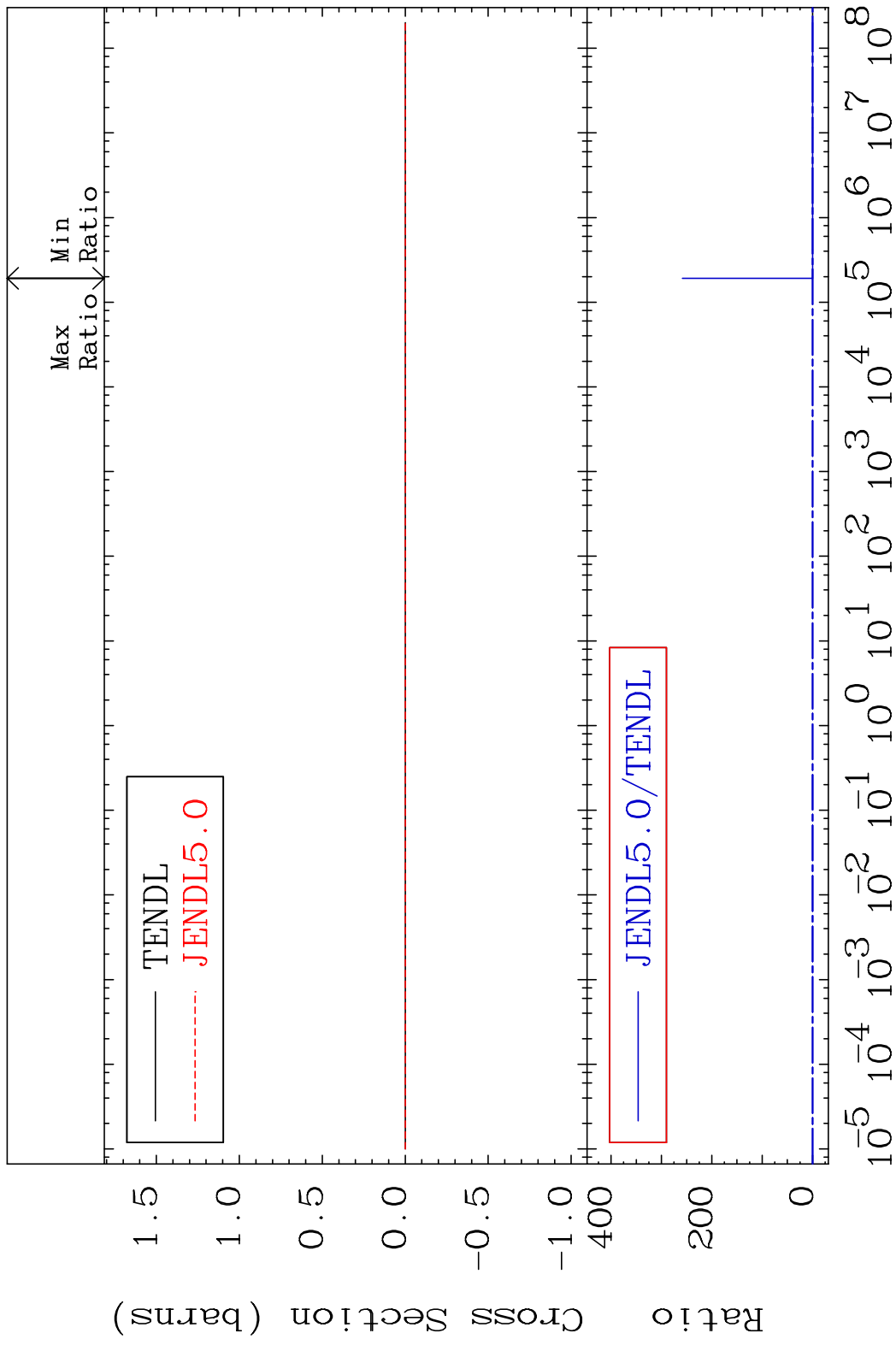
MAT 4428 Kerma non-elastic (all but mt2) 44-Ru-97
 Cross Section -88.20 To 9999. %



MAT 4428 Kerma inelastic (mt51-91) 44-Ru-97
 Cross Section -538.5 To 9999. %

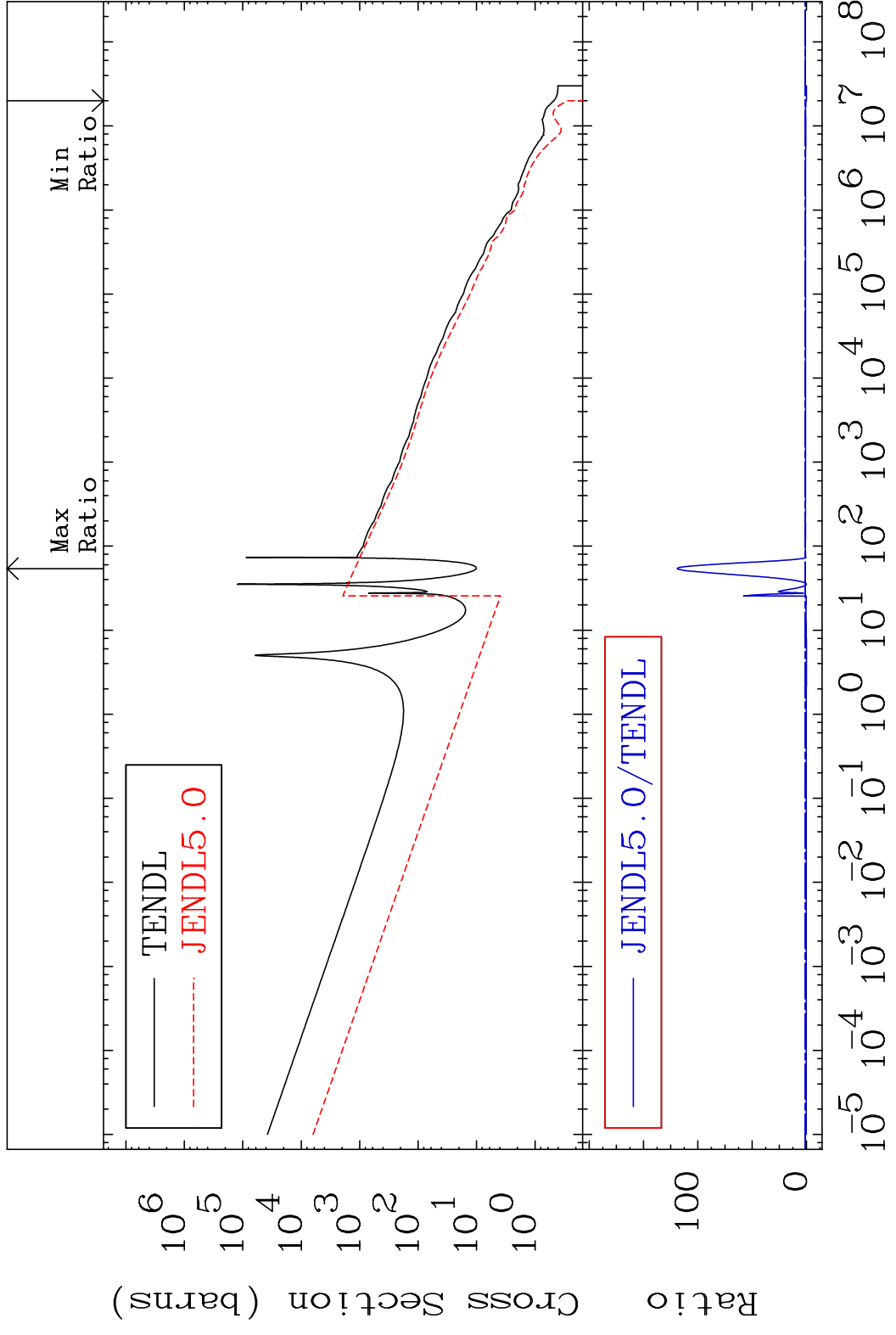


MAT 4428 Kerma fission (mt18 or mt19-20-21-38) 44-Ru-97
 Cross Section -538.5 To 9999. %



MAT 4428

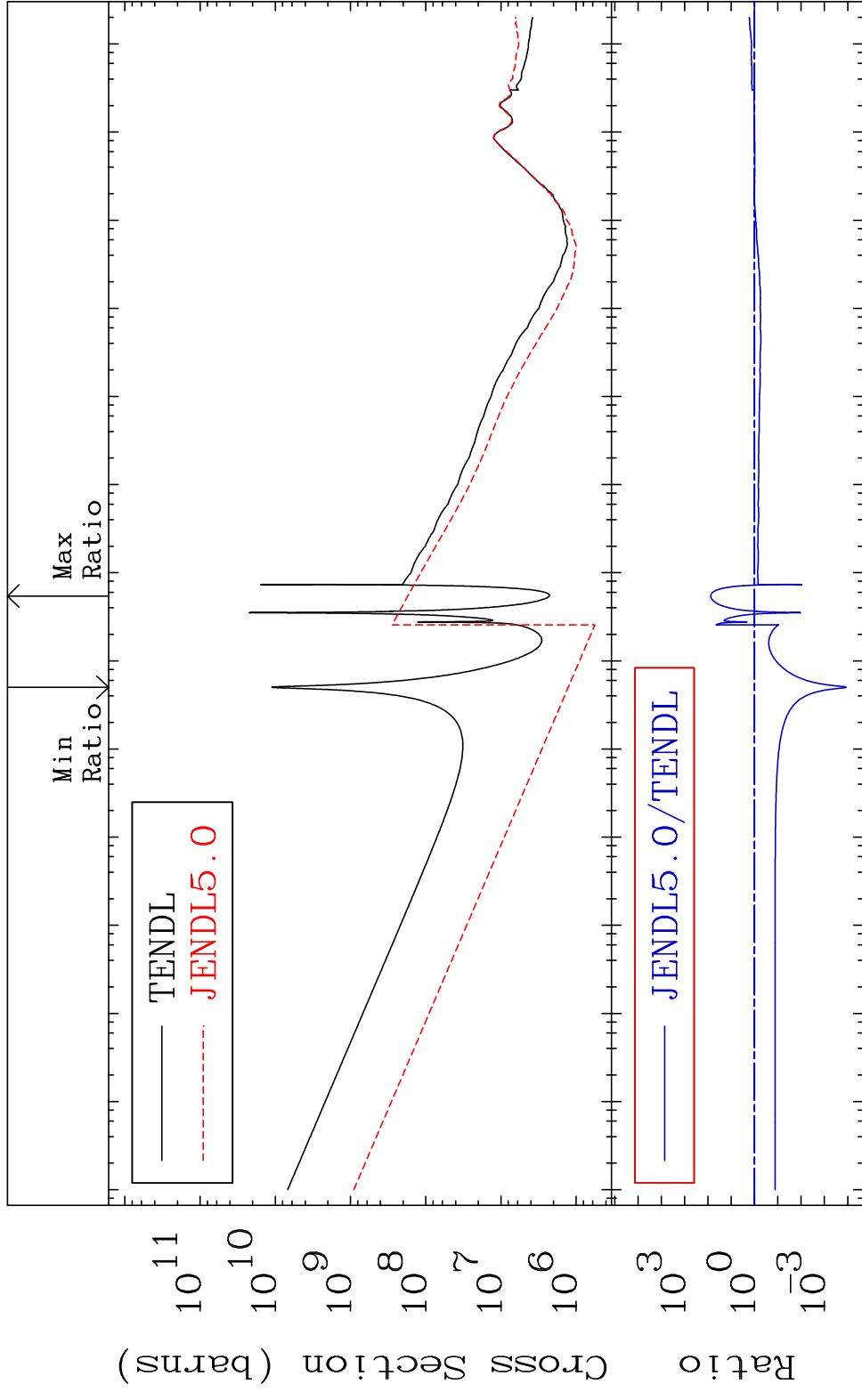
Kerma capture (mt102) 44-Ru-97
Cross Section -100.0 To 9999. %



62

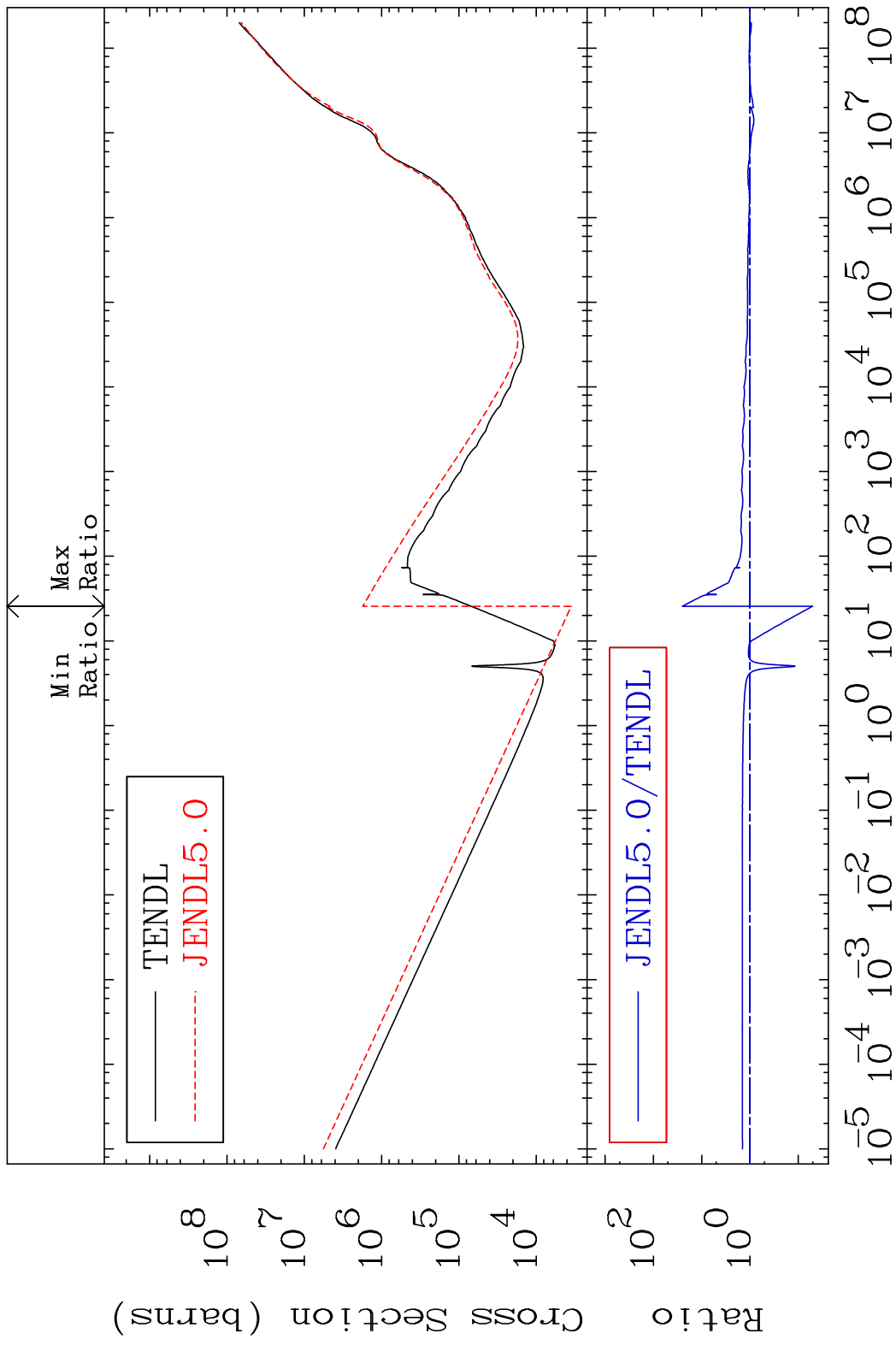
Incident Energy (eV) 44-Ru-97

MAT 4428 Total photon (eV-barns) 44-Ru-97
 Cross Section -99.99 To 7511. %

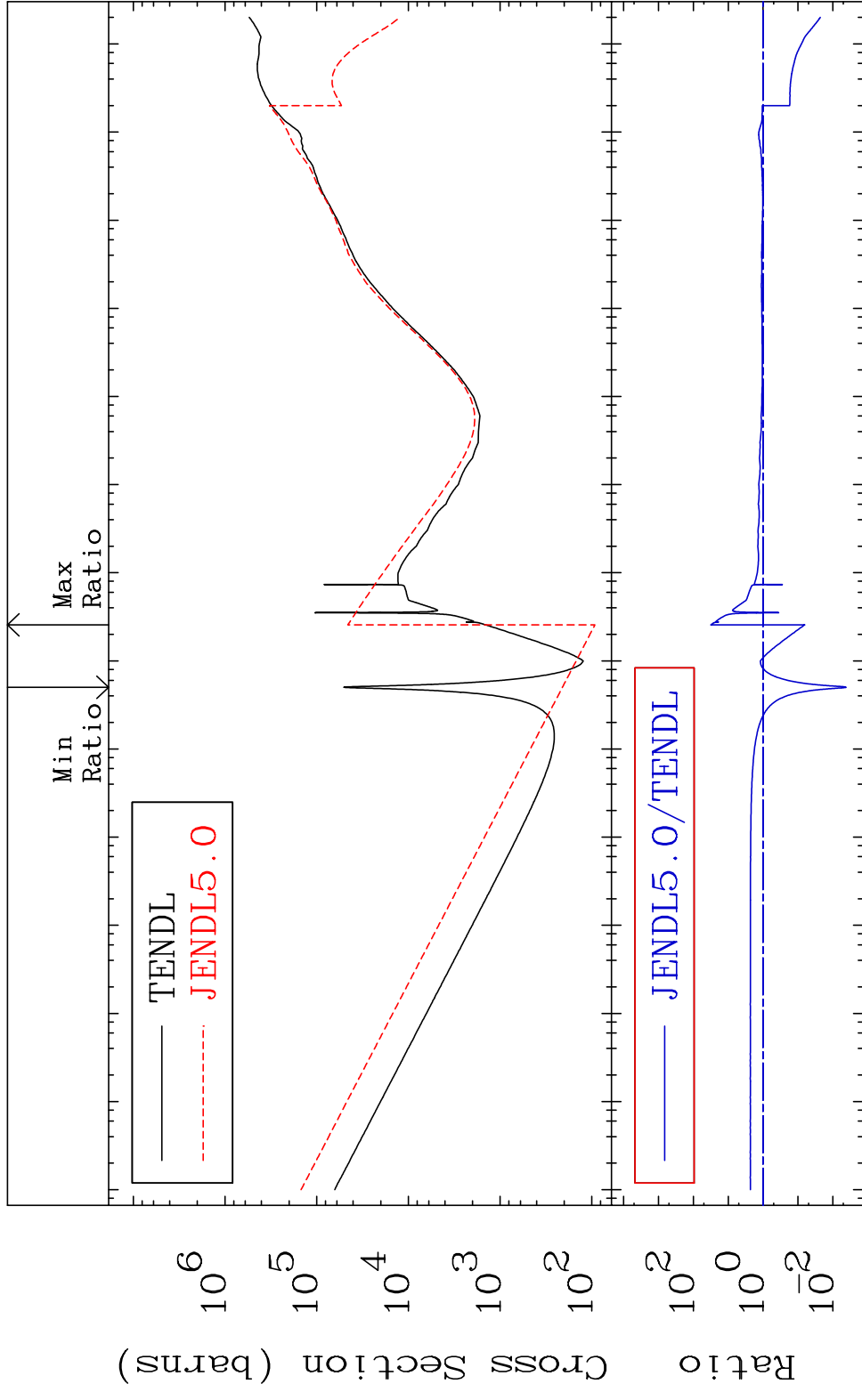


63 Incident Energy (eV) 44-Ru-97

MAT 4428 Total kinematic kerma (high limit) 44-Ru-97
 Cross Section -94.92 To 2411. %



MAT 4428 Dpa total (eV-barns) 44-Ru-97
 Cross Section -99.59 To 3072. %

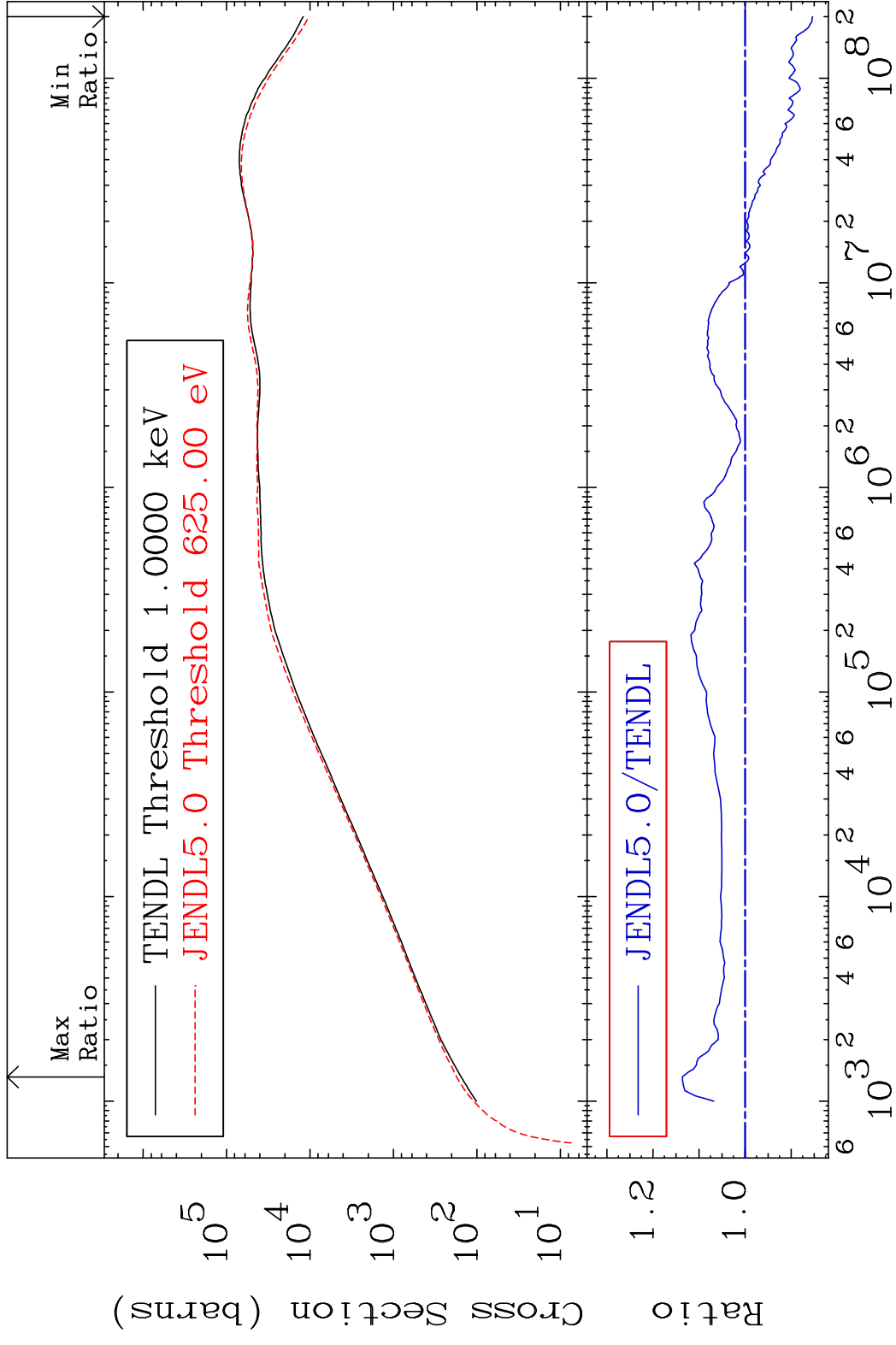


MAT 4428

Dpa elastic (mt2)

44-Ru-97

Cross Section -14.65 To 13.61 %



66

Incident Energy (eV)

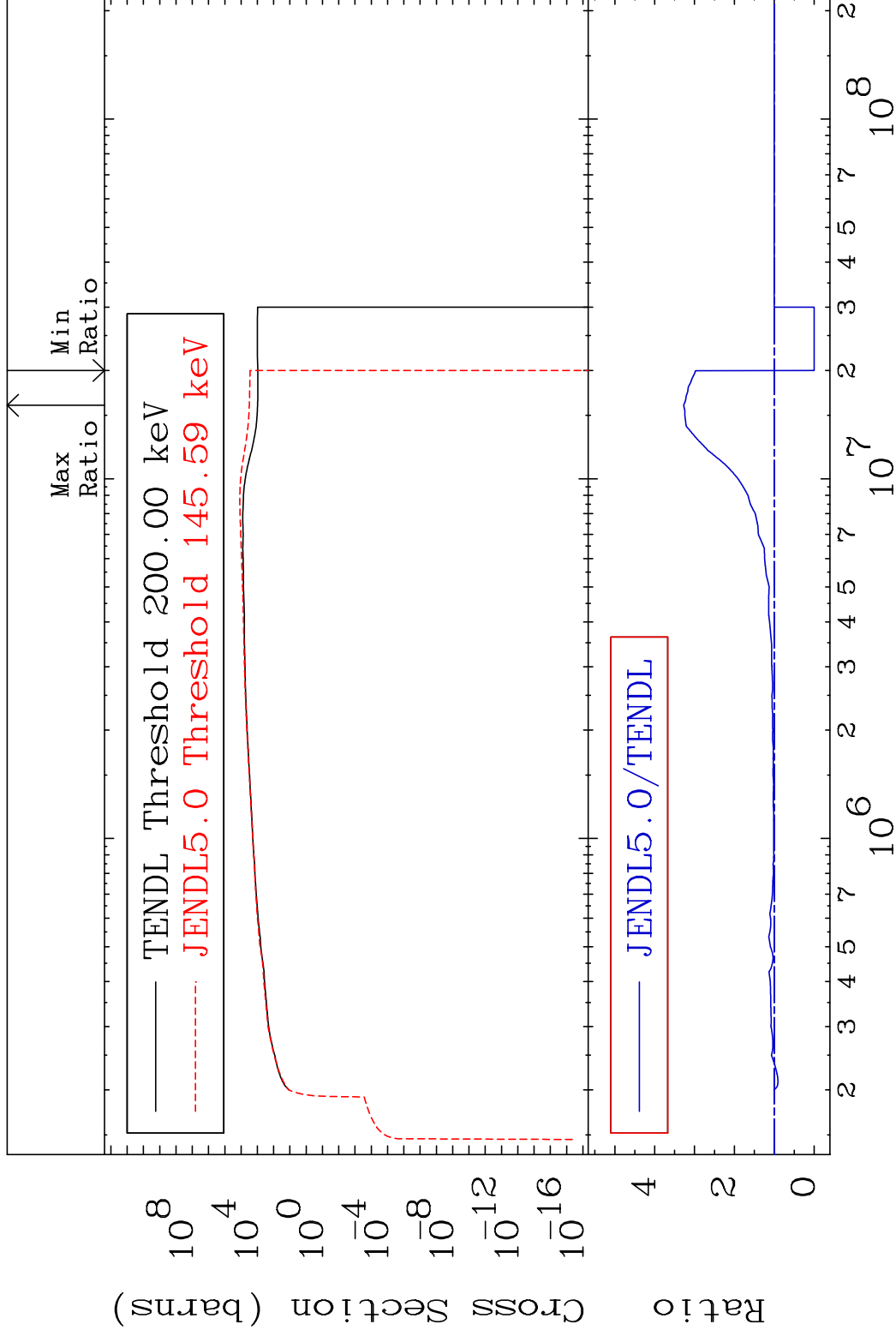
44-Ru-97

MAT 4428

Dpa inelastic (mt51-91)

44-Ru-97

Cross Section -100.0 To 227.3 %

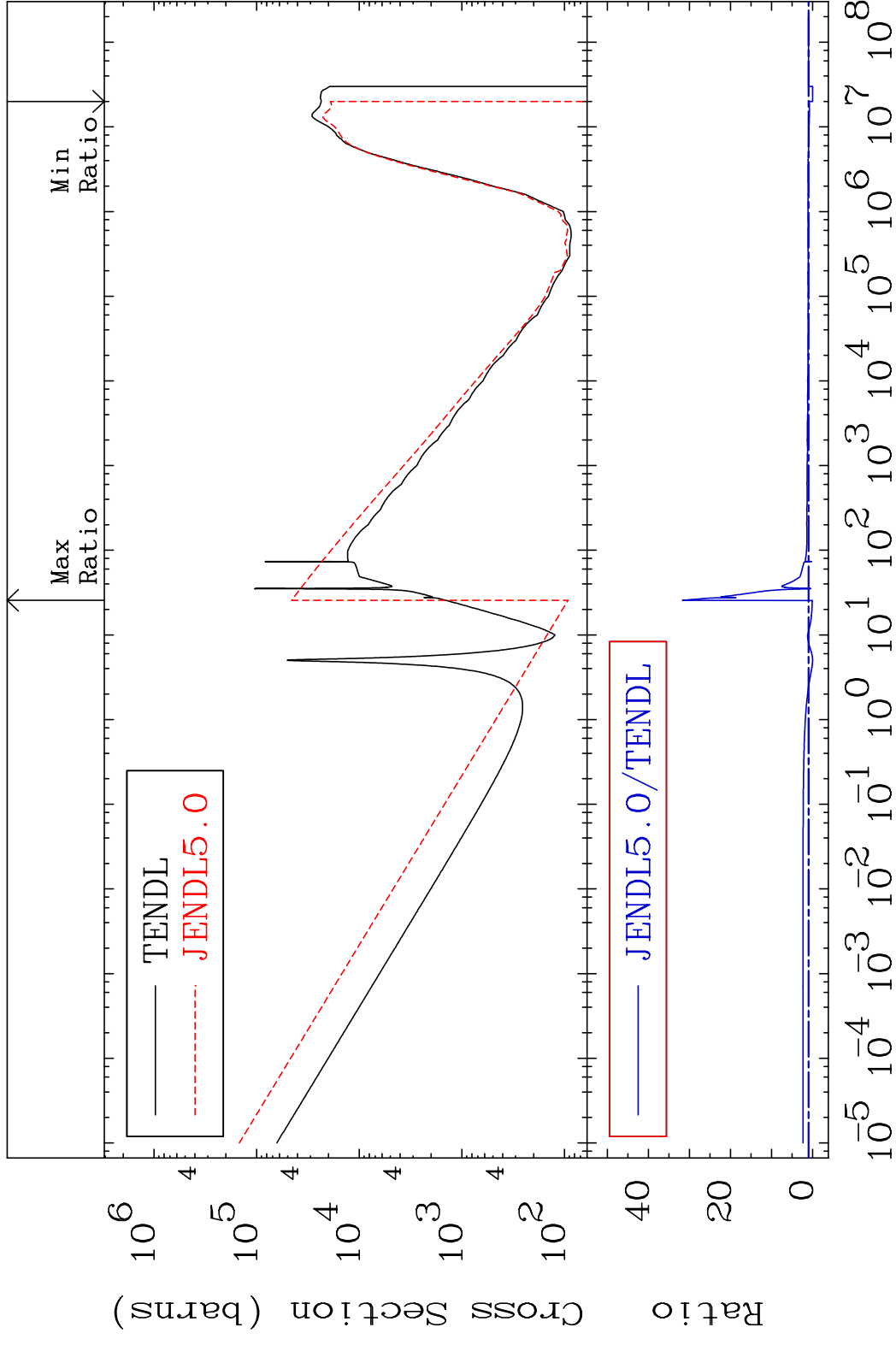


67

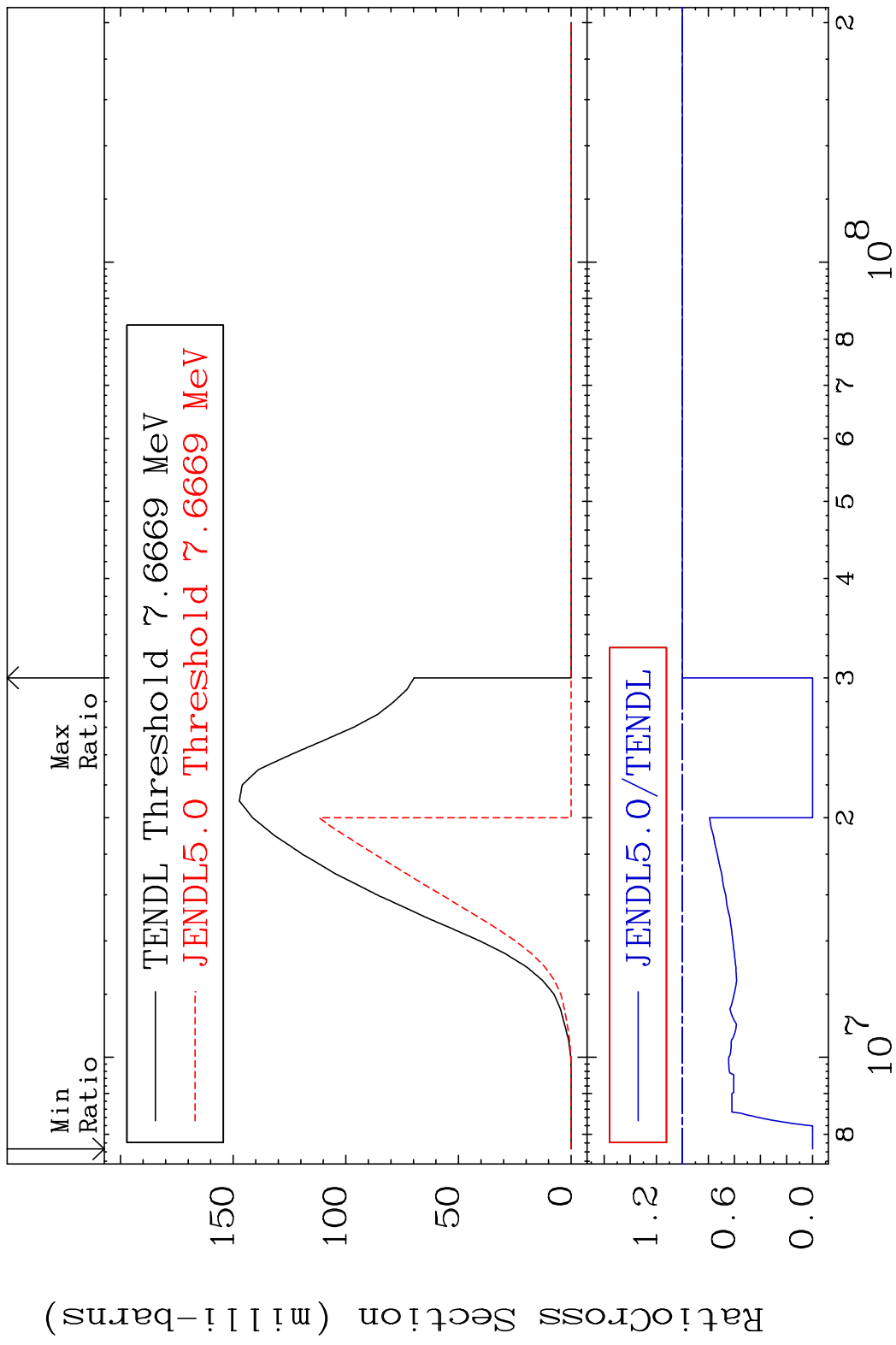
Incident Energy (eV)

44-Ru-97

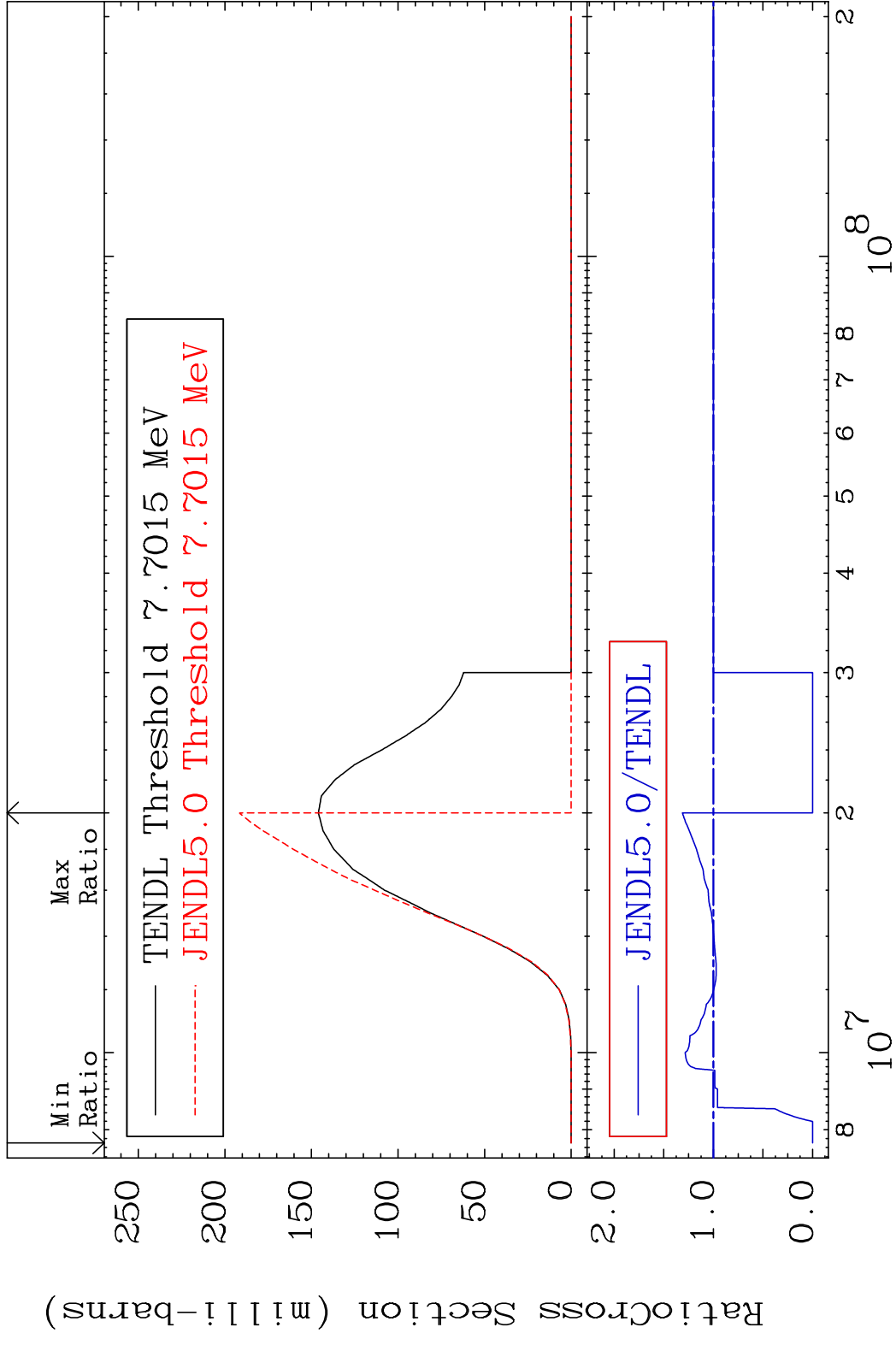
MAT 4428 Dpa disappearance (mt102 -120) 44-Ru-97
 Cross Section -100.0 To 3072. %



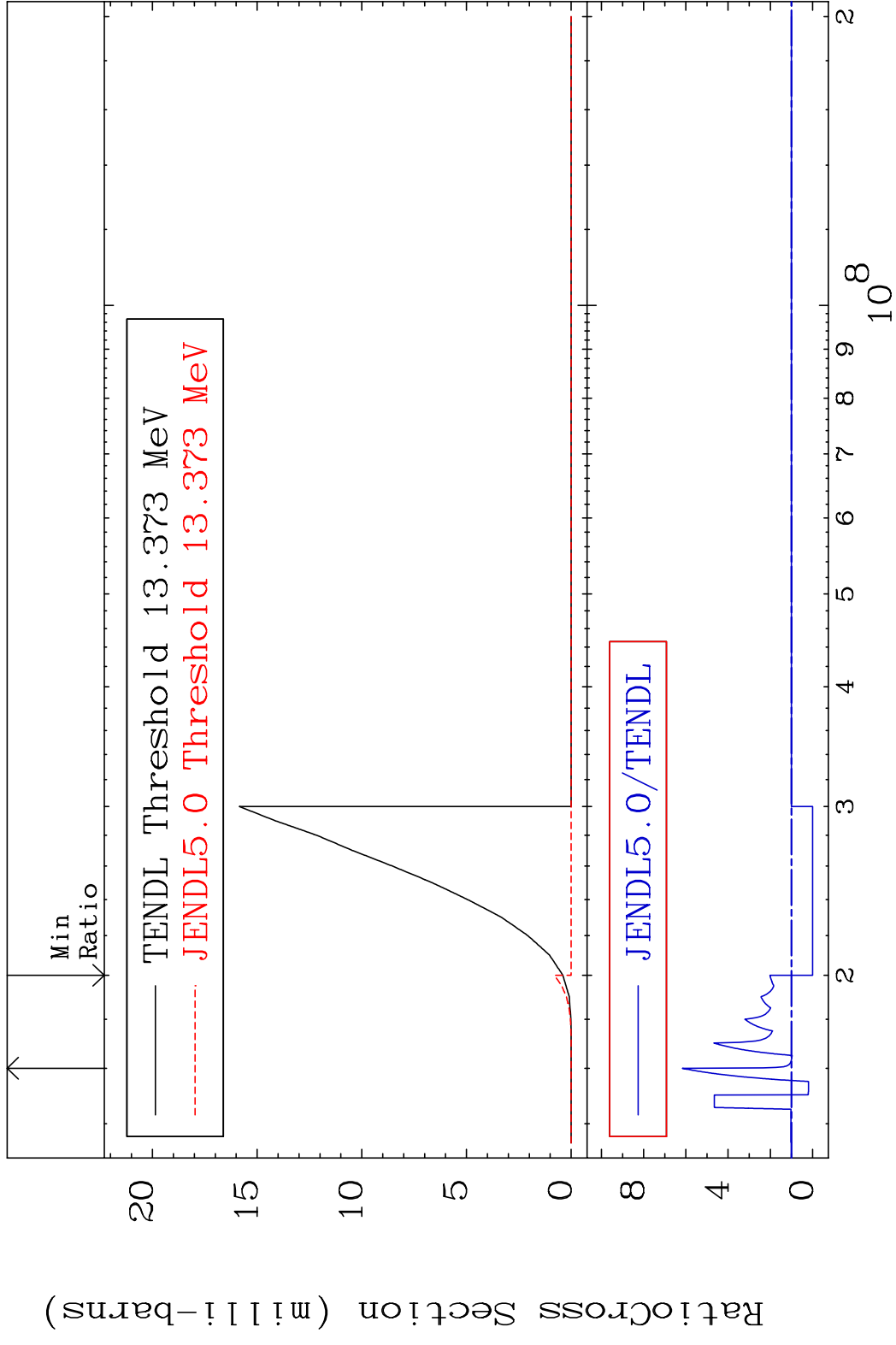
MAT 4428 (n, n') p:43-Tc-96g 44-Ru-97
 Radionuclide Production Cross Section Ratio 0.000 %



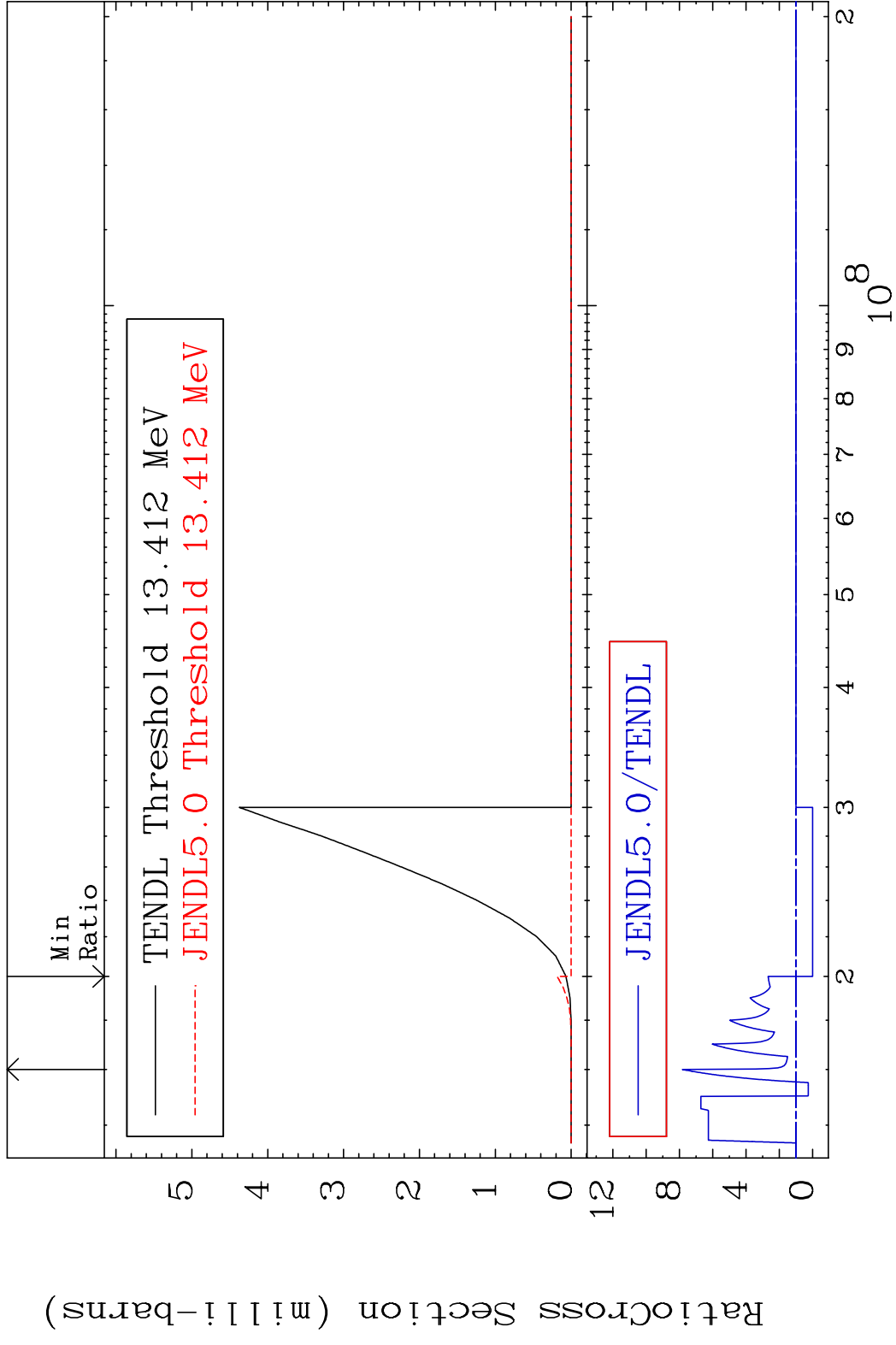
MAT 4428 (n, n') p:43-Tc-96m1 44-Ru-97
 Radionuclide Production Cross Section 31.29 %

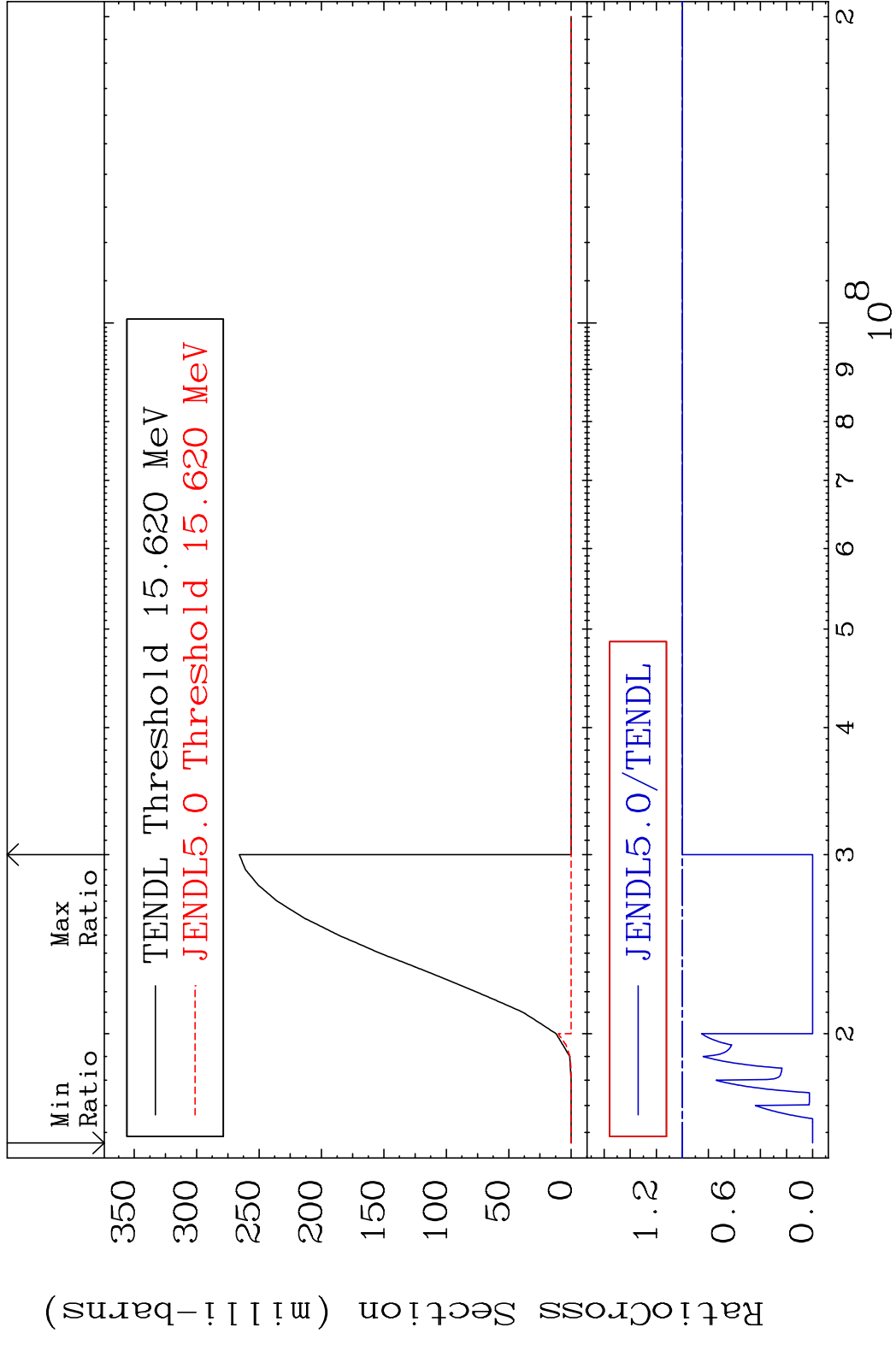


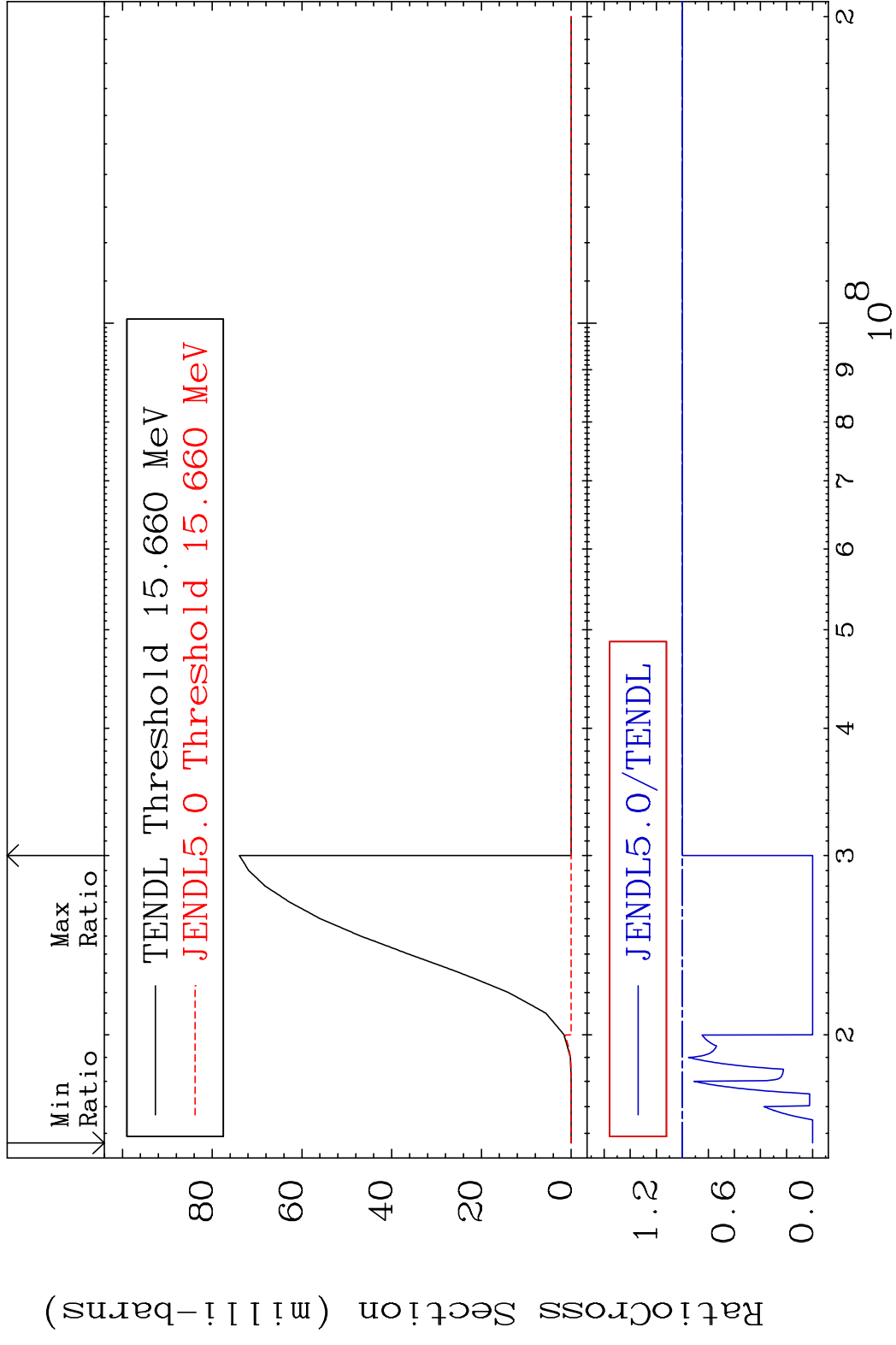
70 44-Ru-97



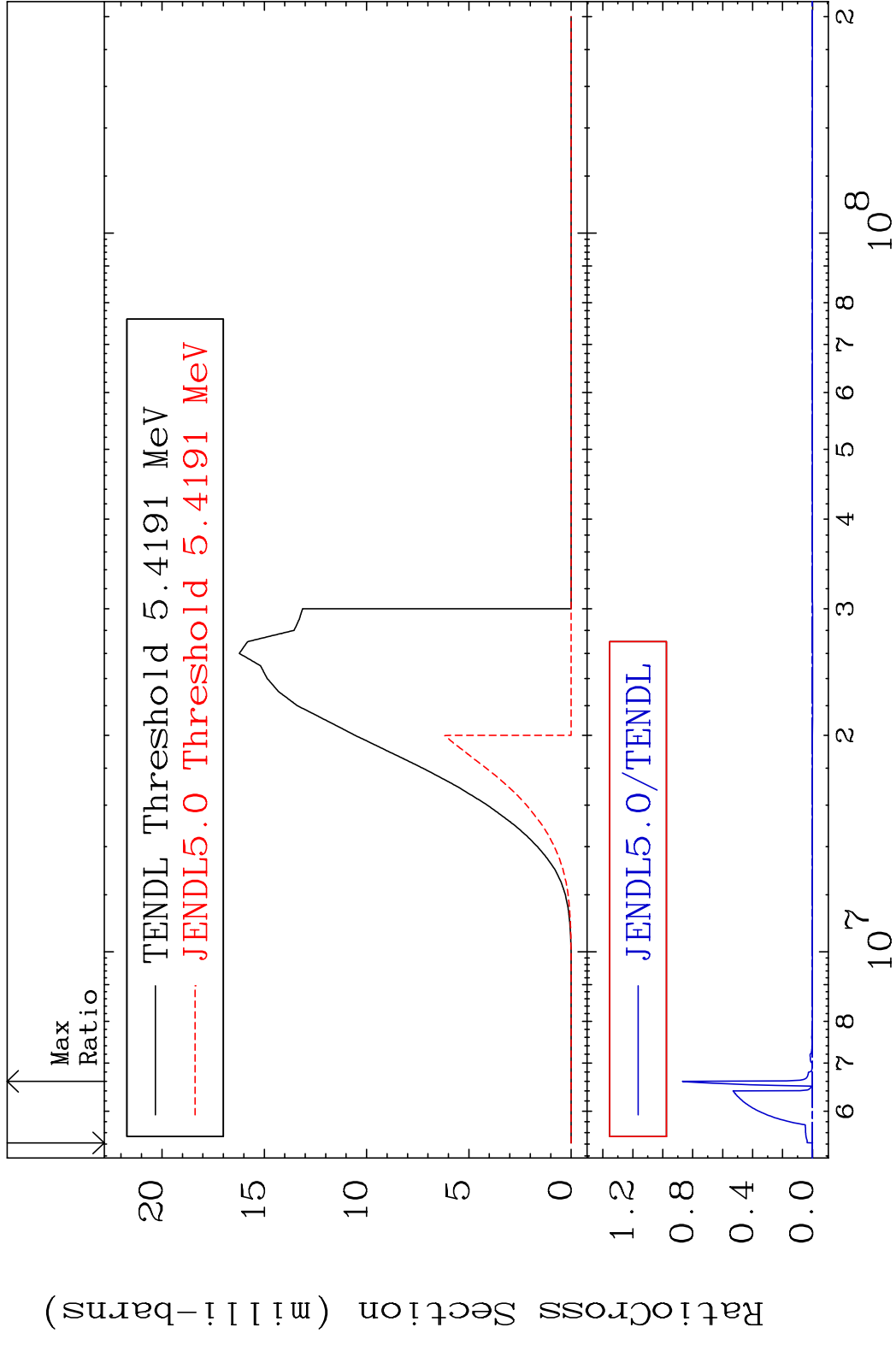
MAT 4428 (n, n') d:43-Tc-95m1 44-Ru-97
 Radionuclide Production Cross Section 180.0 dth 682.5 %



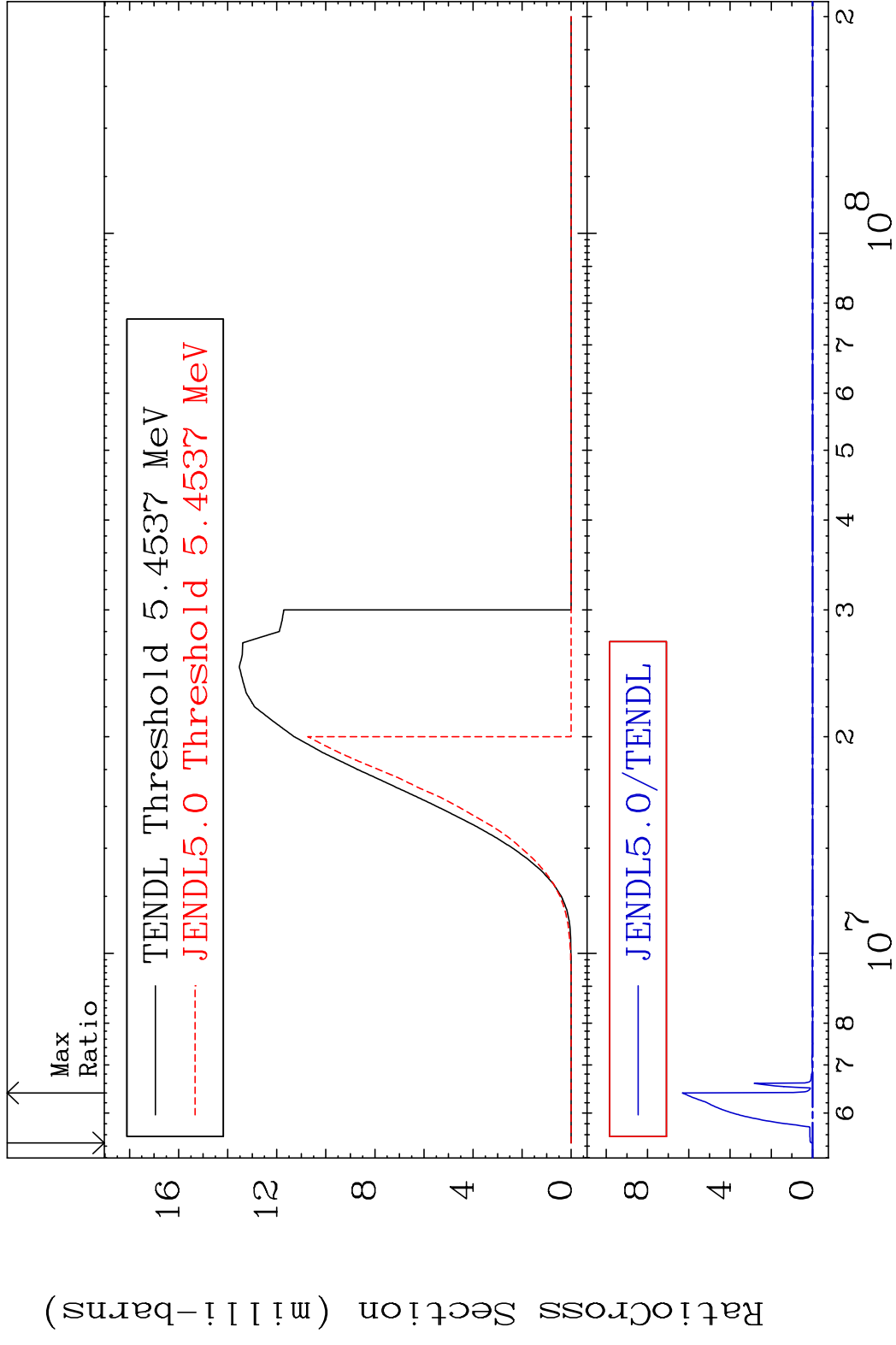




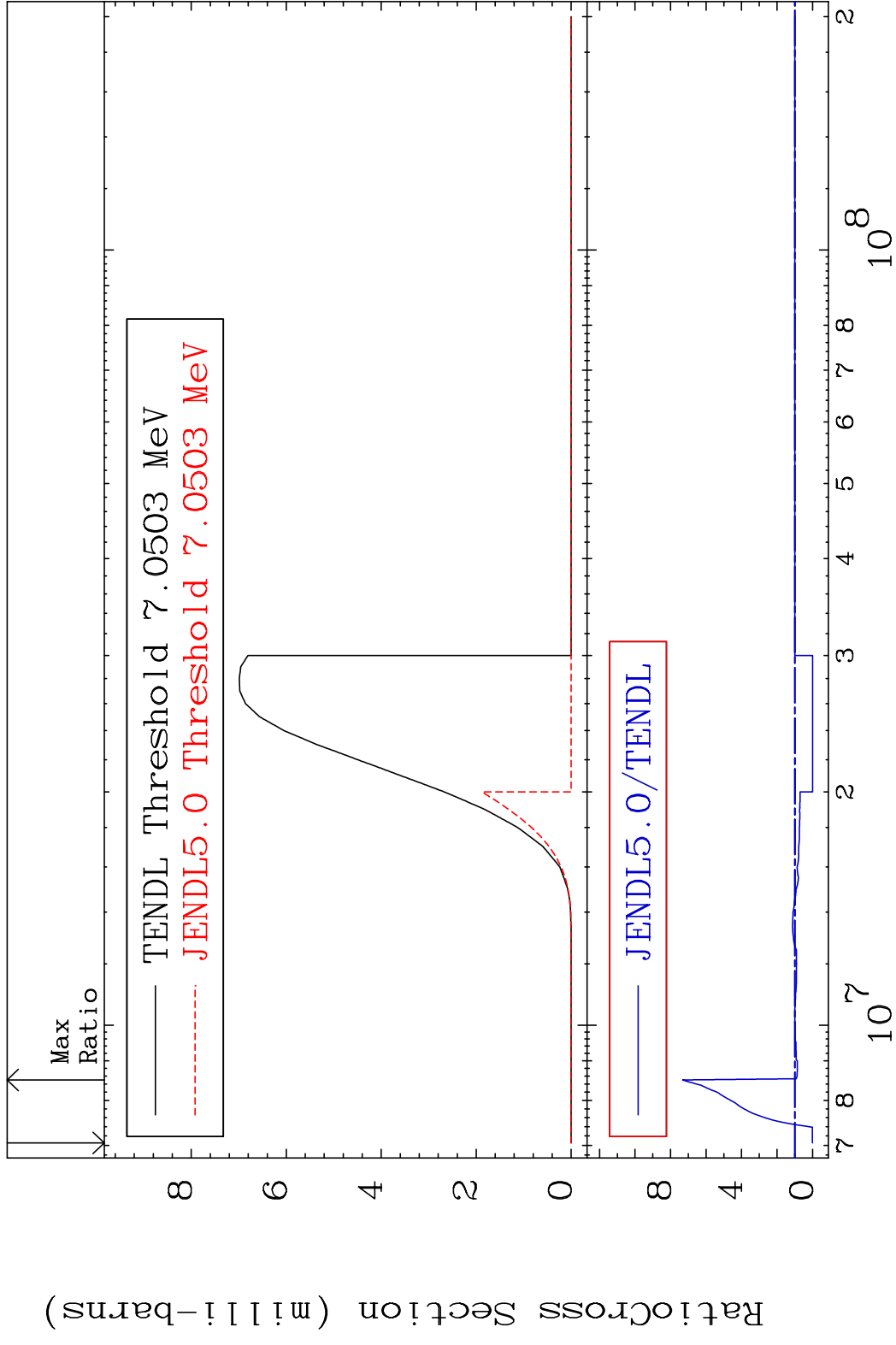
MAT 4428 (n,d):43-Tc-96g 44-Ru-97
 Radionuclide Production Cross Section Ratio 9999. %



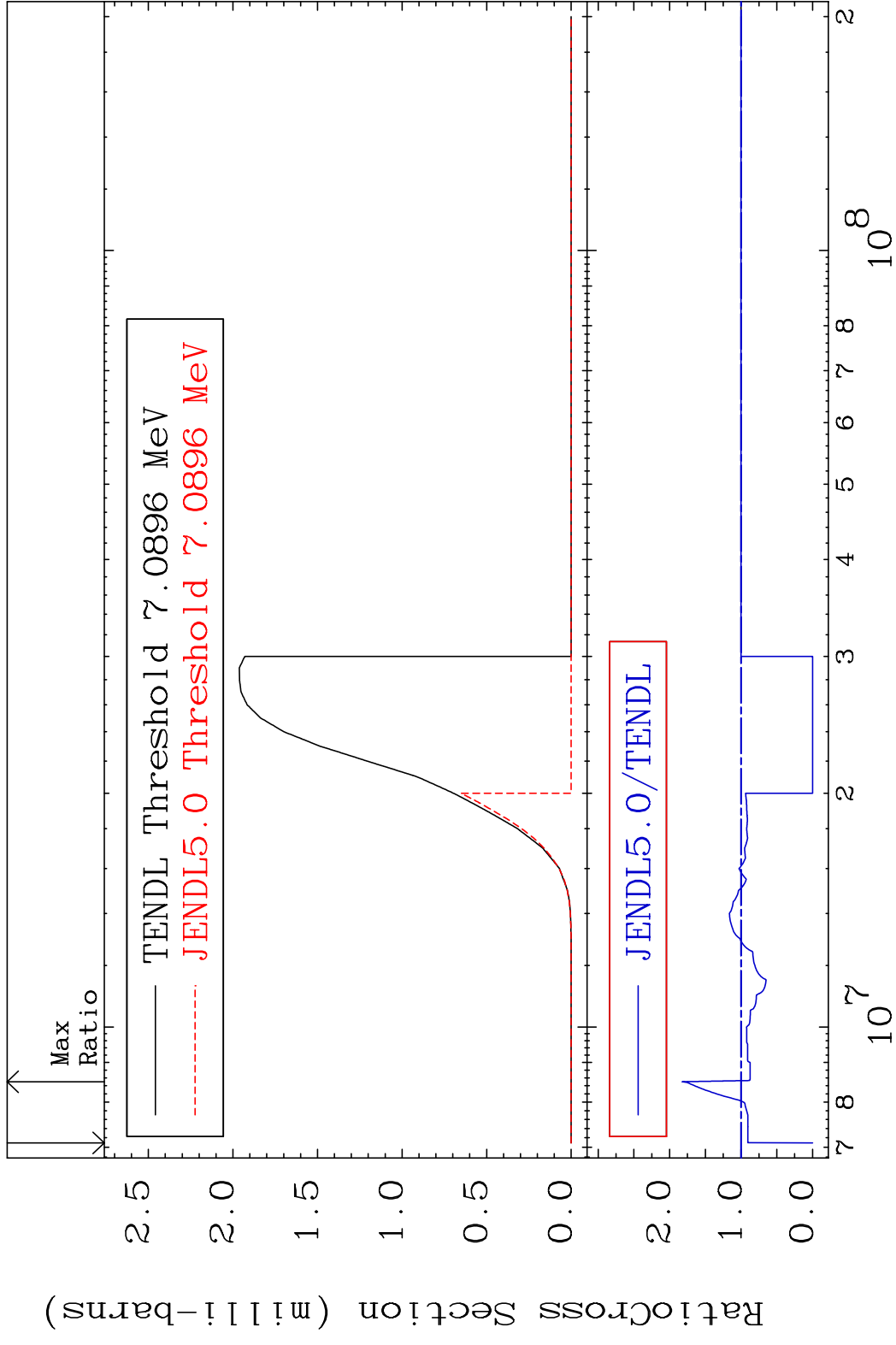
MAT 4428 (n, d) : 43-Tc-96m1 44-Ru-97
 Radionuclide Production Cross Section Ratio 9999. %

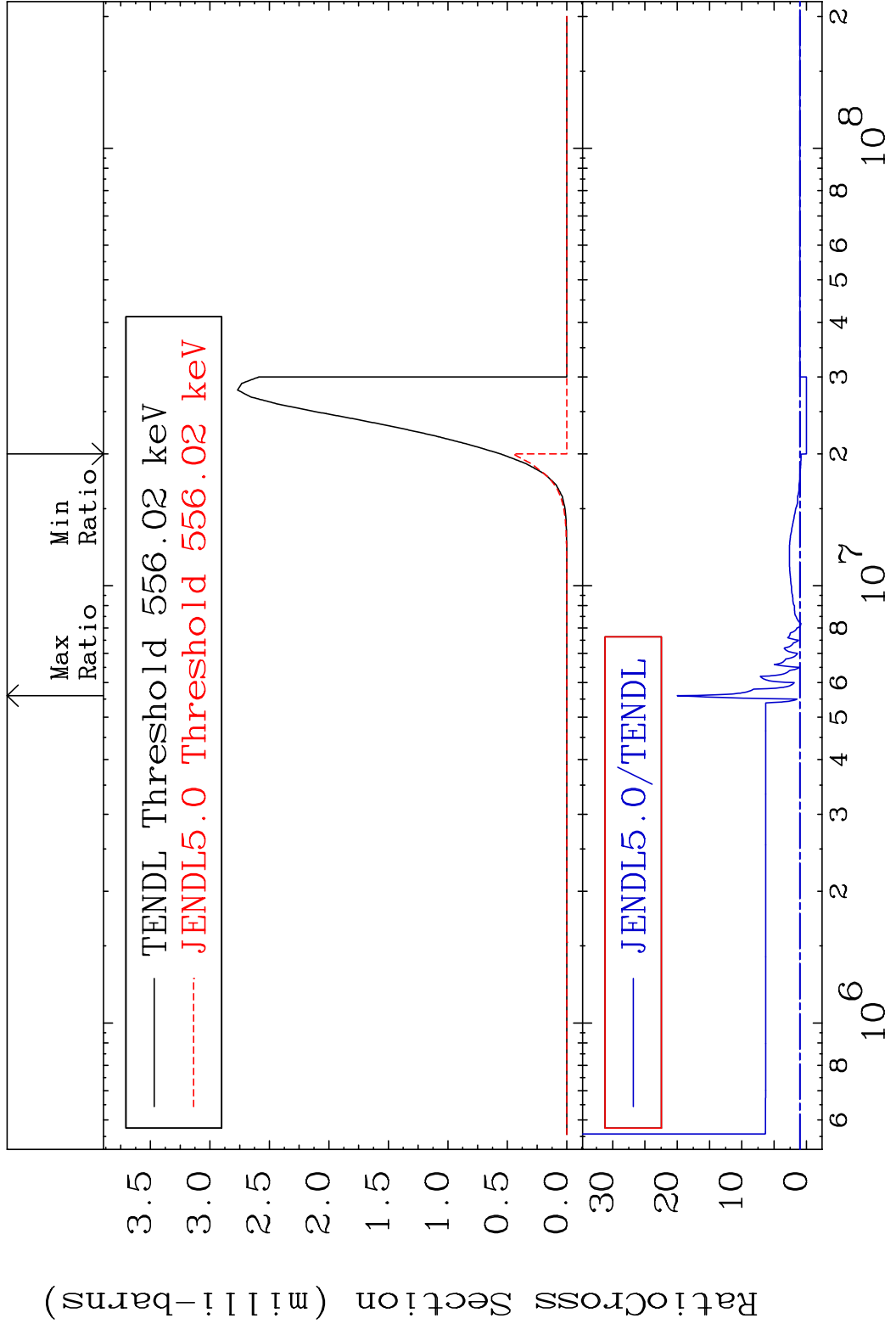


MAT 4428 (n, t): 43-Tc-95g 44-Ru-97
 Radionuclide Production Cross Section 180.0 mb 633.5 %

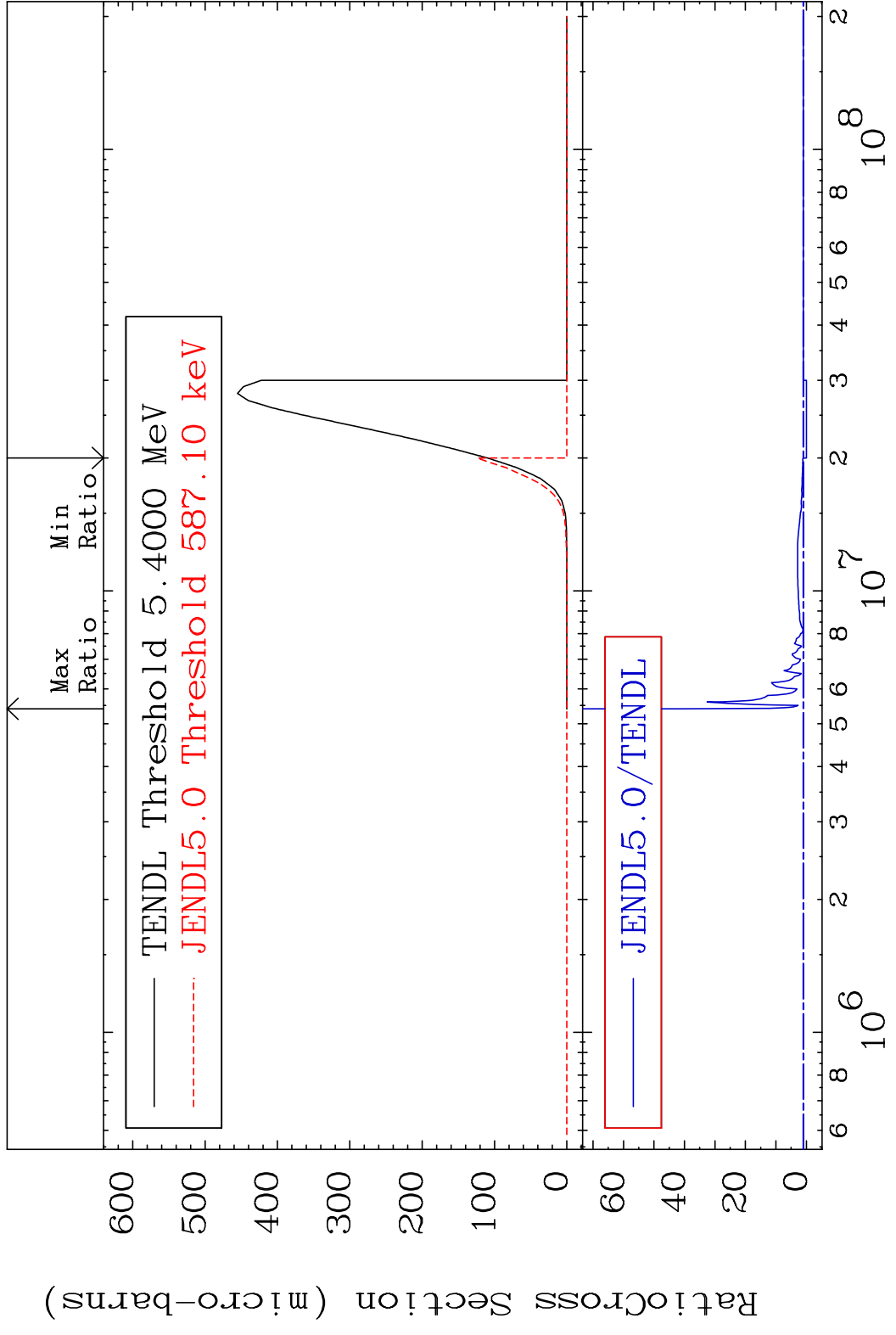


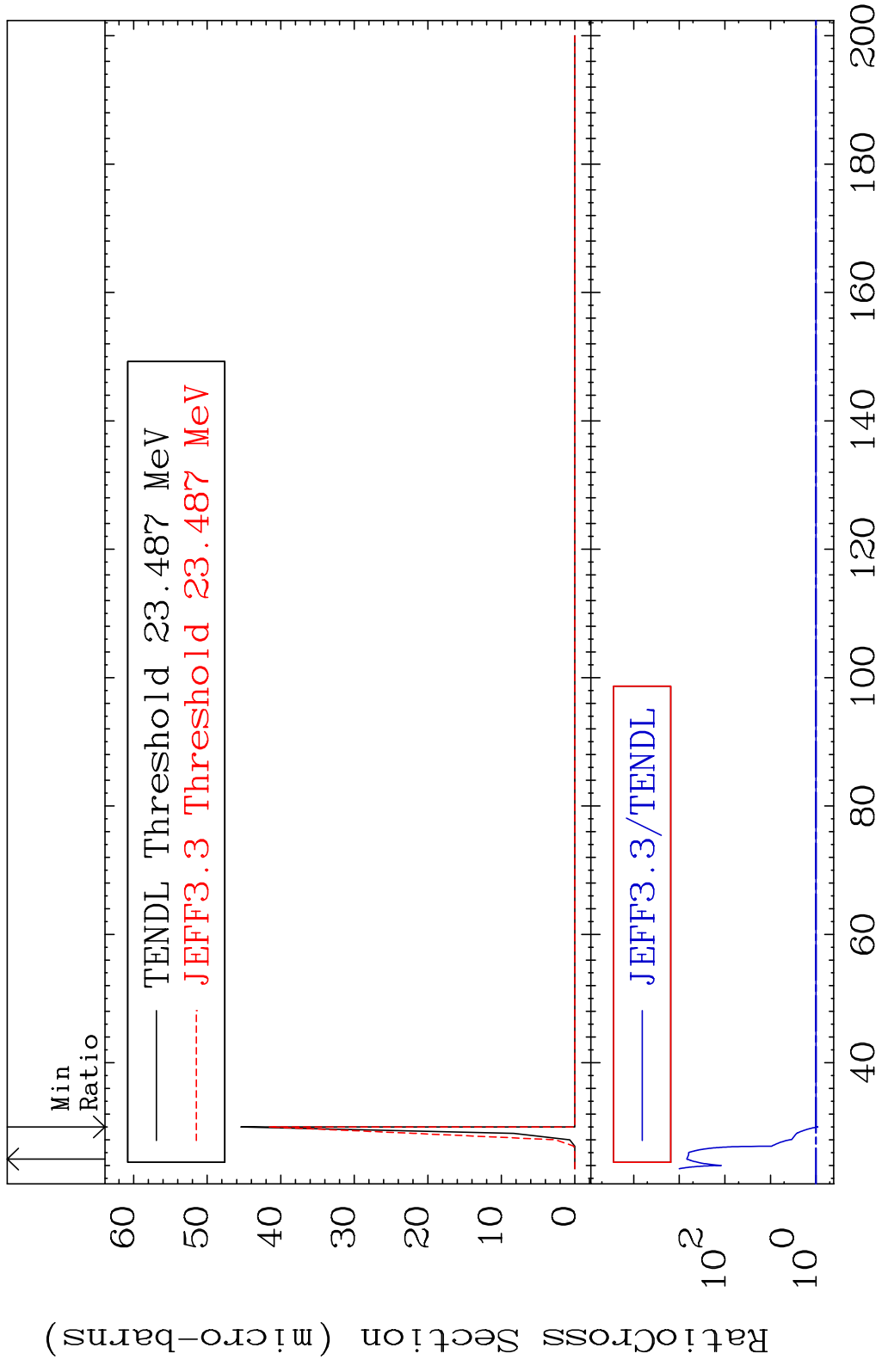
MAT 4428 (n,t):43-Tc-95m1 44-Ru-97
 Radionuclide Production Cross Section Ratio 82.19 %



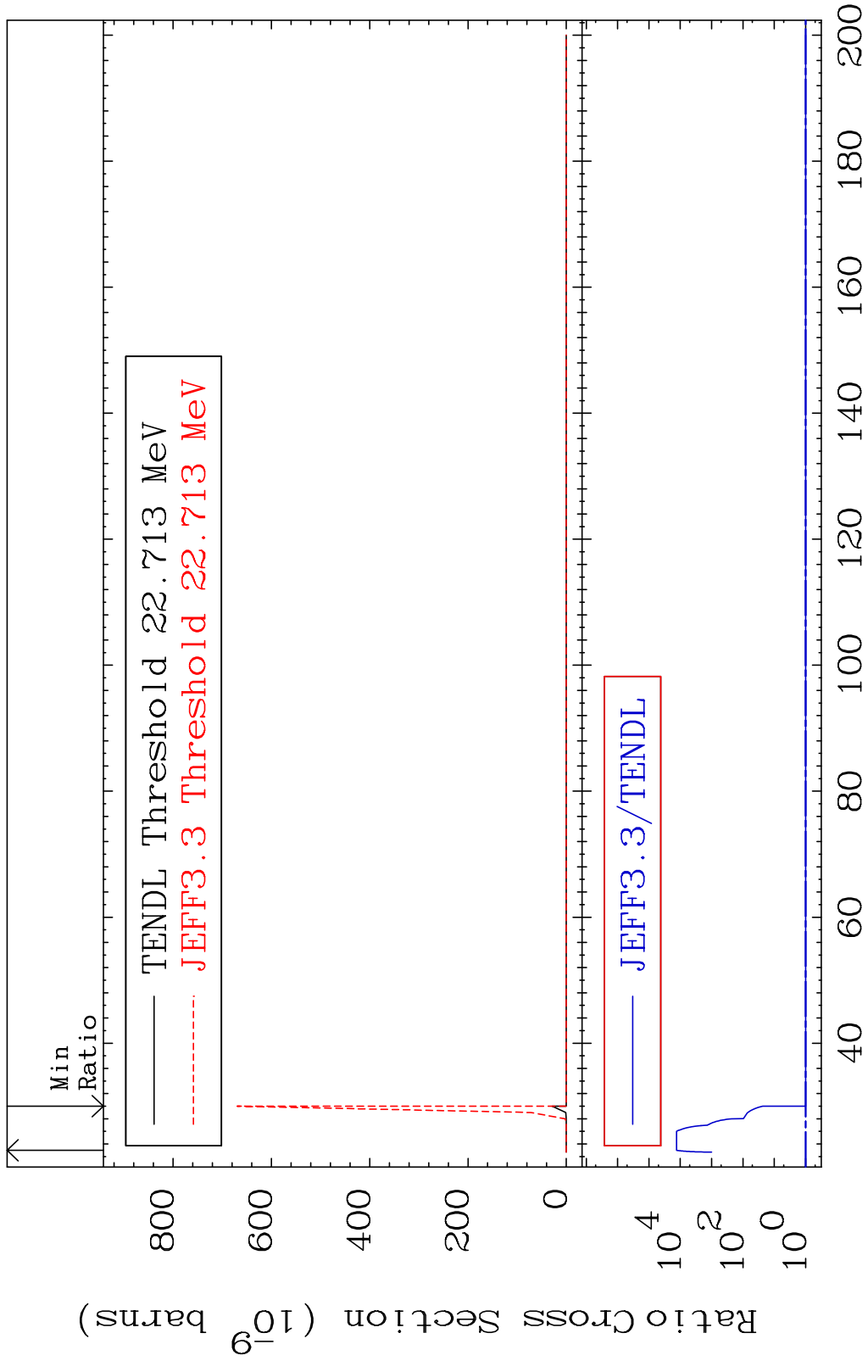


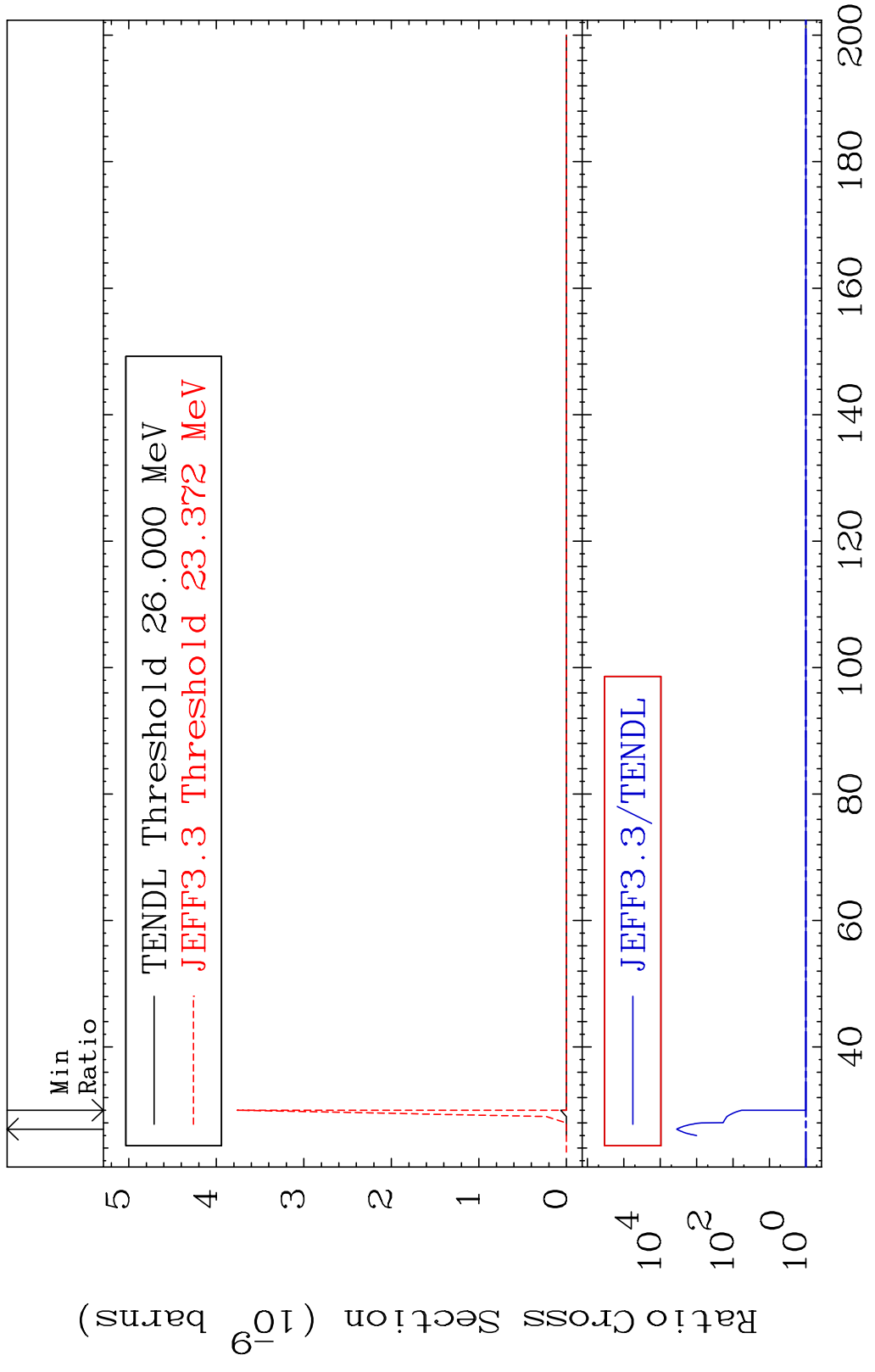
MAT 4428 (n, p) α :41-Nb-93m1 44-Ru-97
 Radionuclide Production Cross Section 4139. %



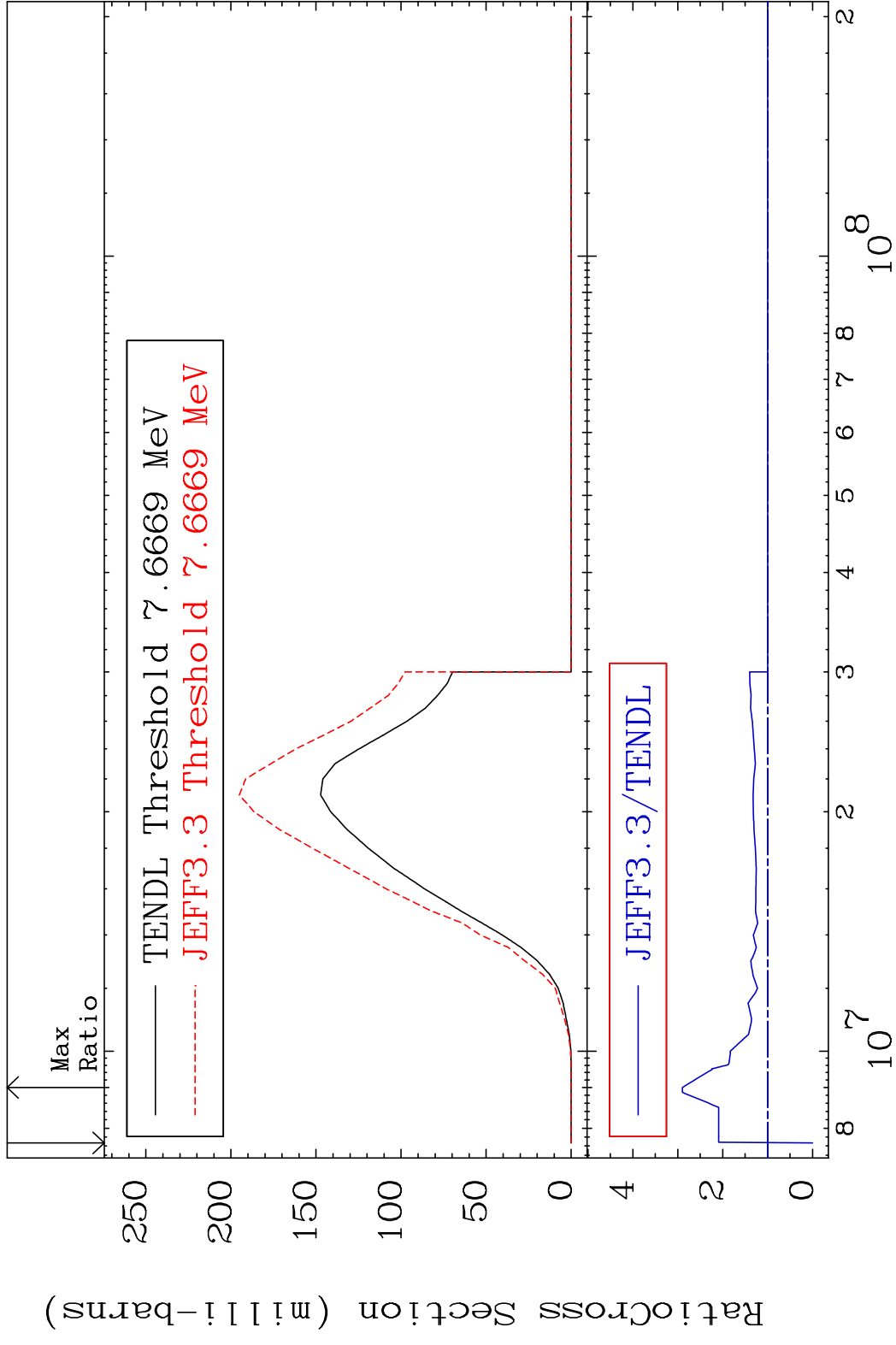


MAT 4428 (n, 3n) α : 42-Mo-91g 44-Ru-97
 Radionuclide Production Cross Section 9999. %

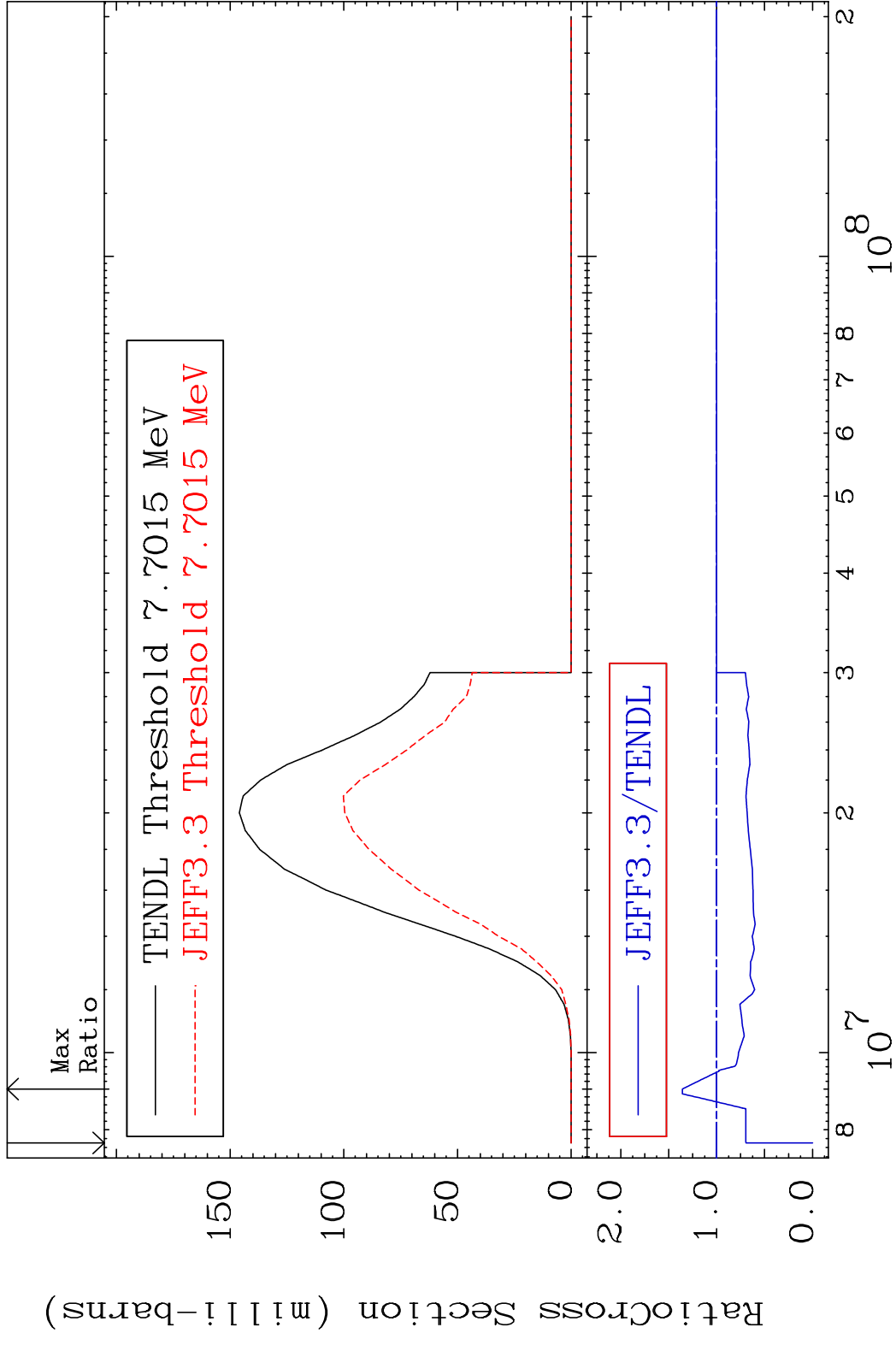


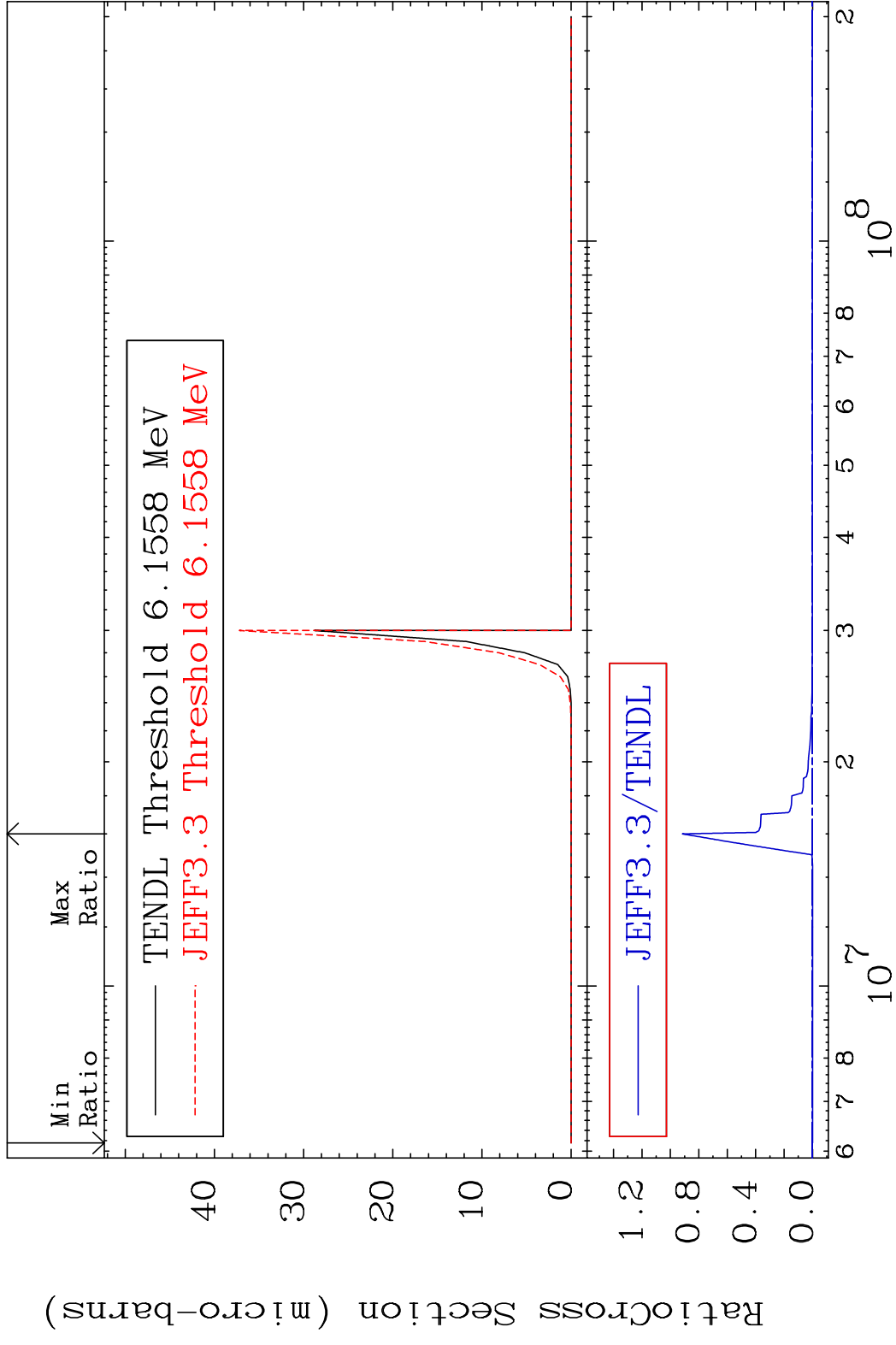


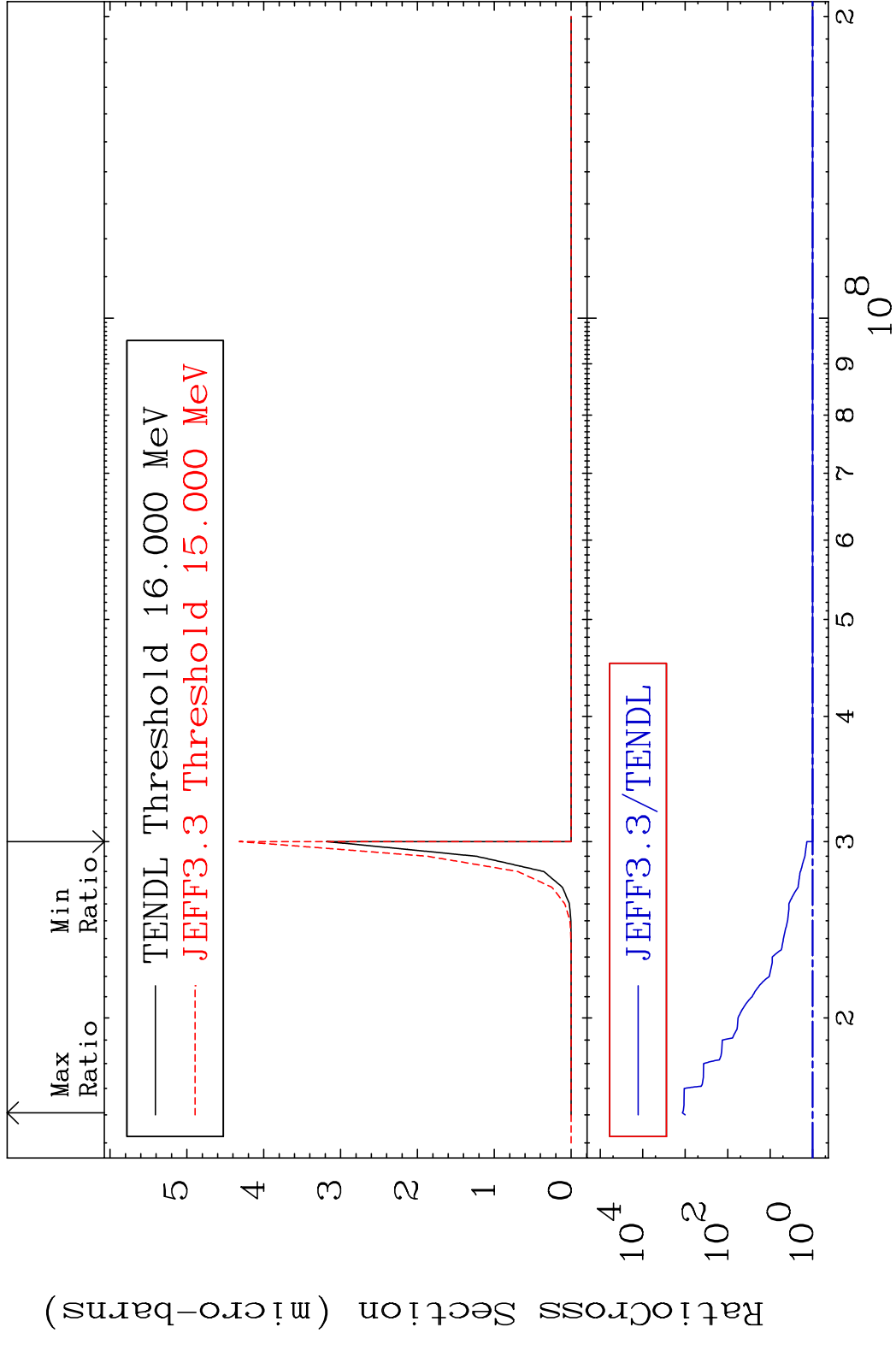
MAT 4428 (n, n') p:43-Tc-96g 44-Ru-97
 Radionuclide Production Cross Section 189.8 %



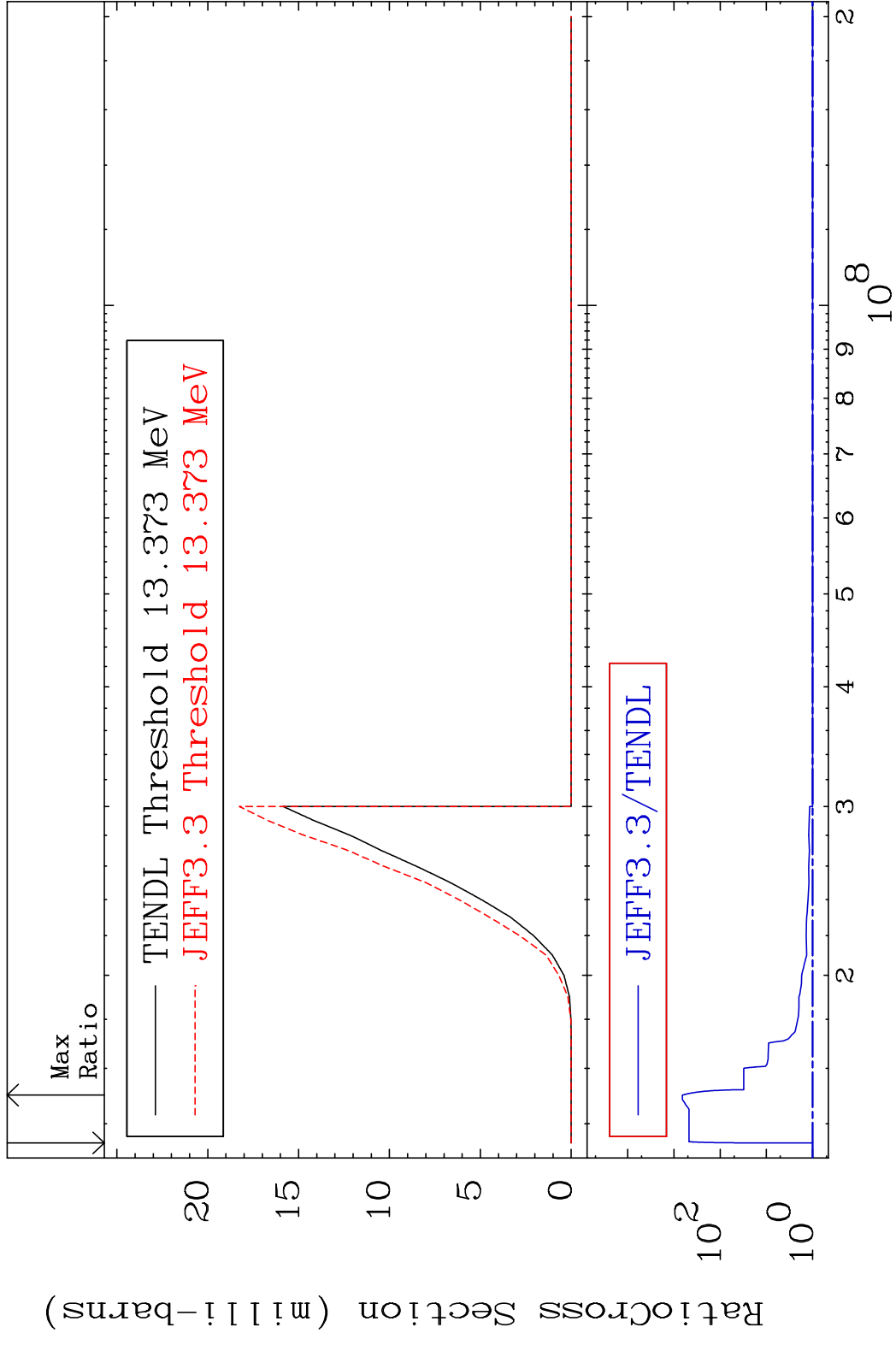
MAT 4428 (n, n') p:43-Tc-96m1 44-Ru-97
 Radionuclide Production Cross Section 180.01 d10 35.75 %

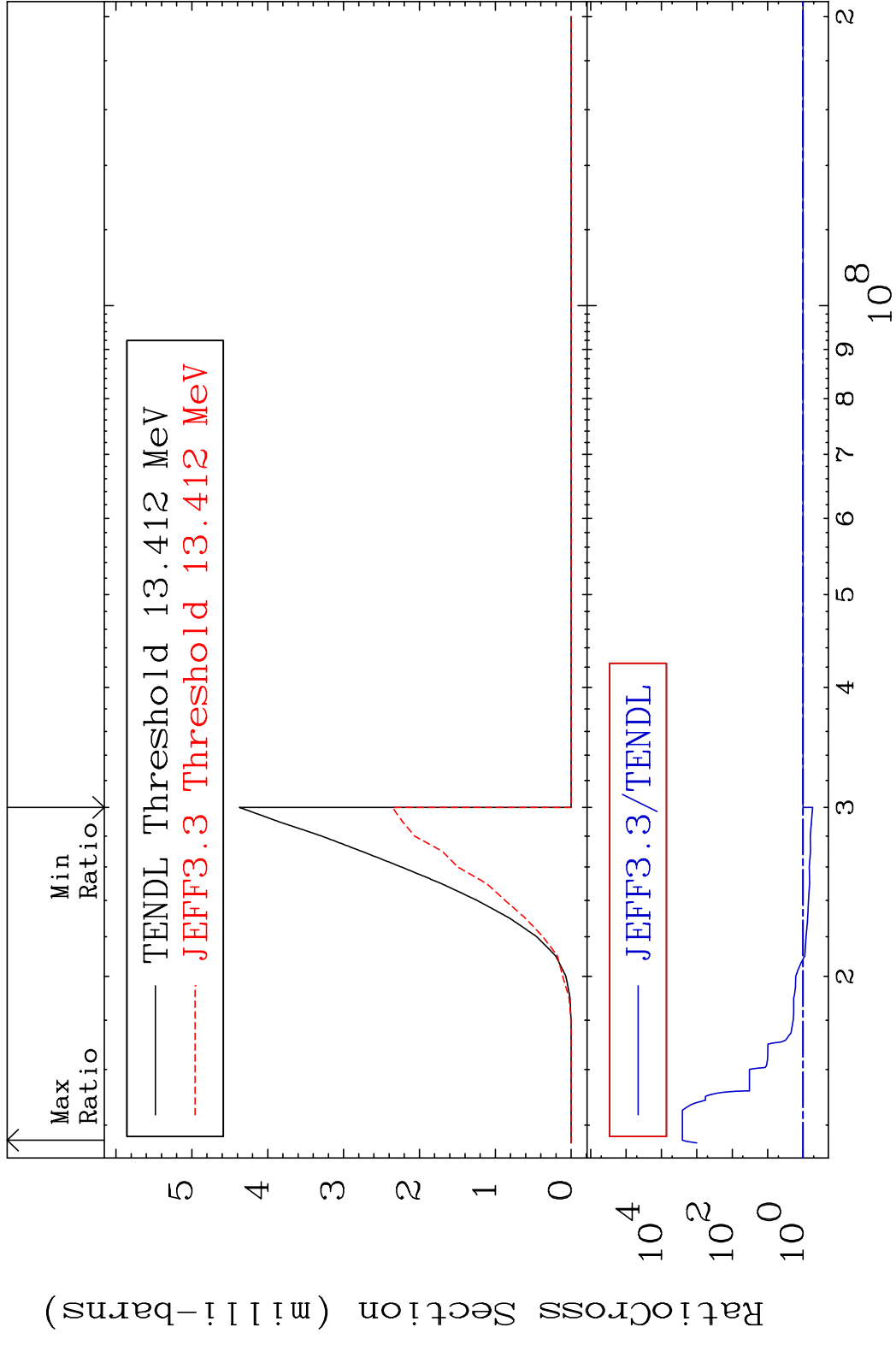




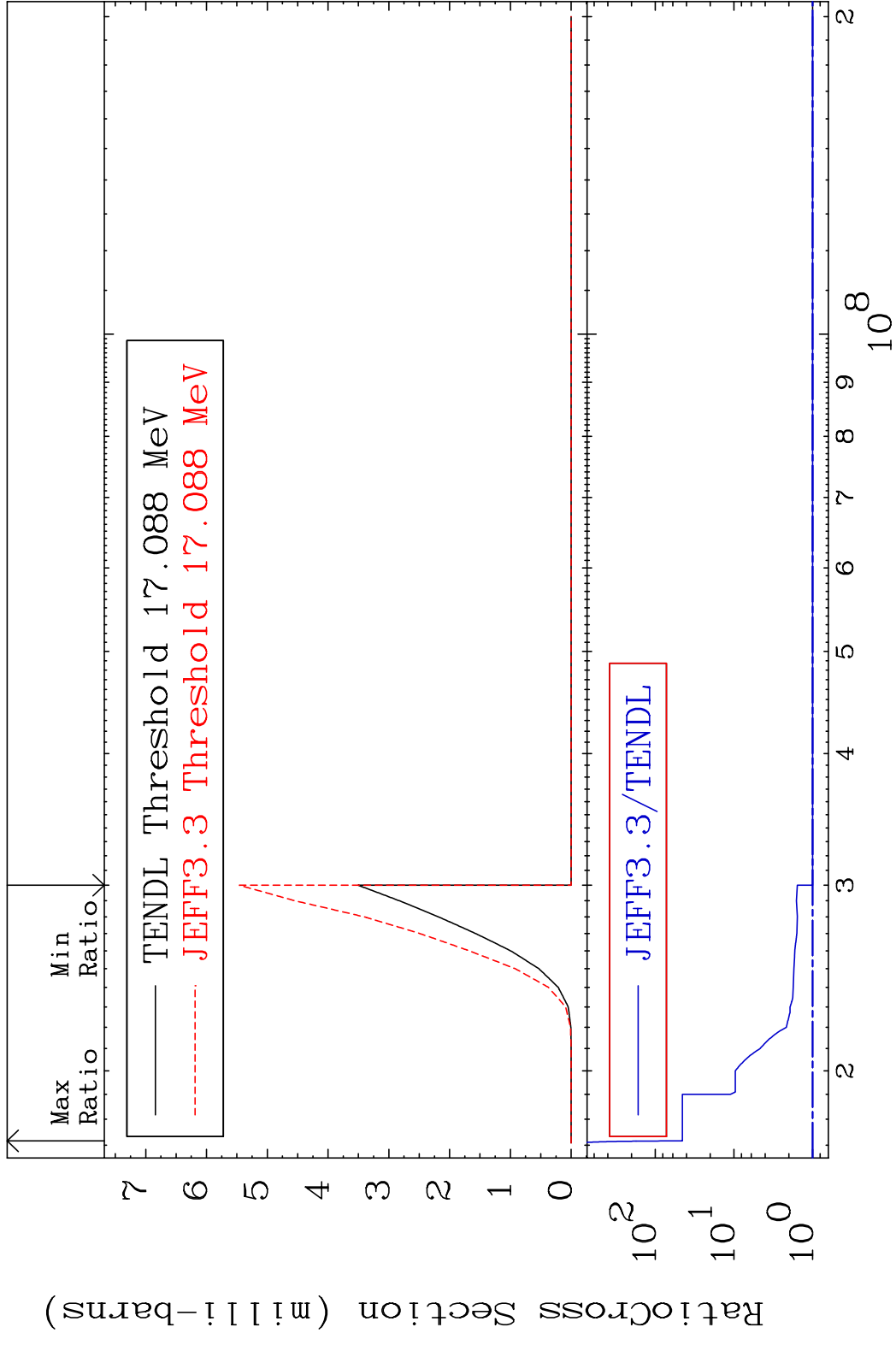


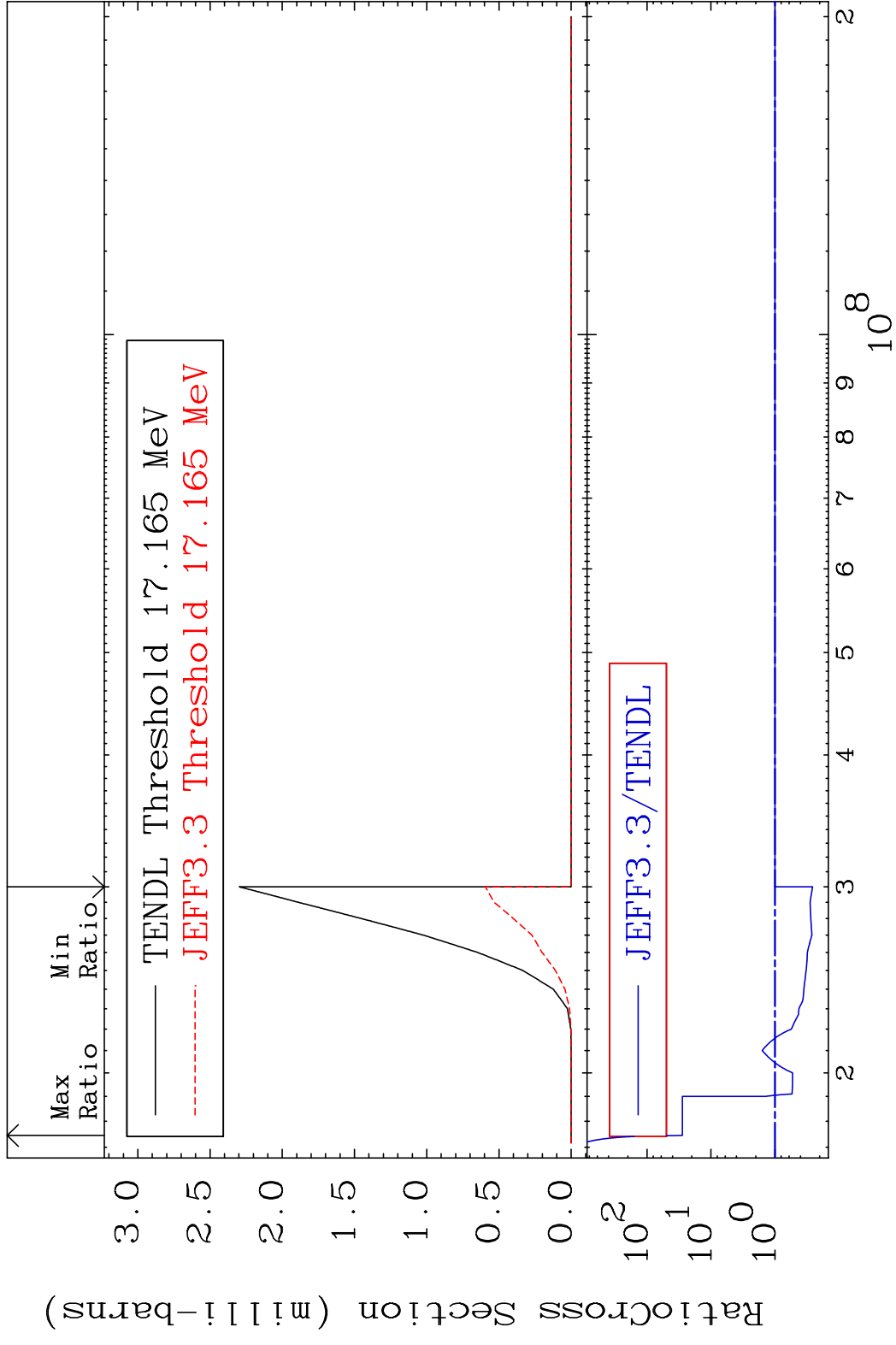
MAT 4428 (n, n') d:43-Tc-95g 44-Ru-97
 Radionuclide Production Cross Section 9999. %

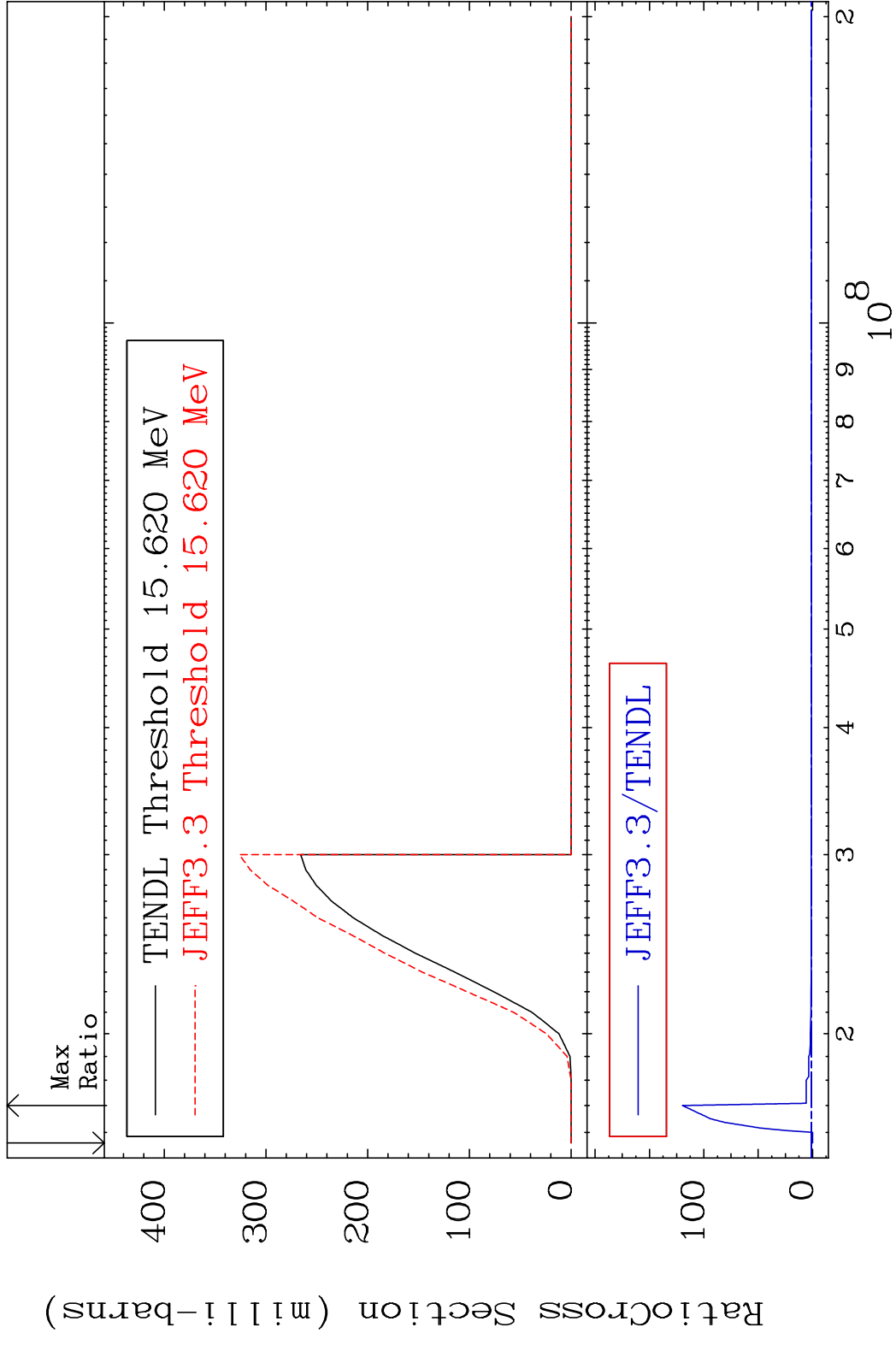


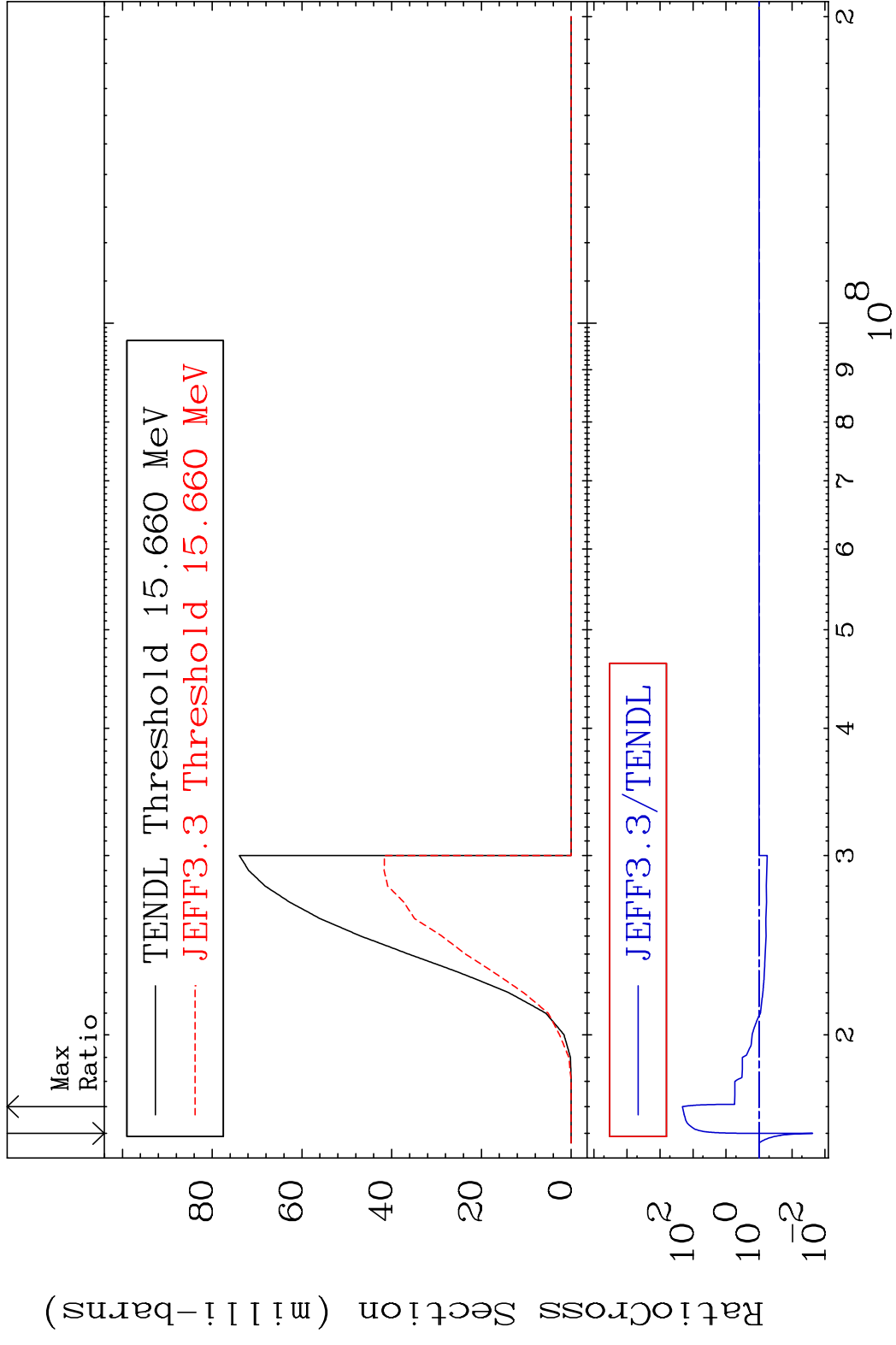


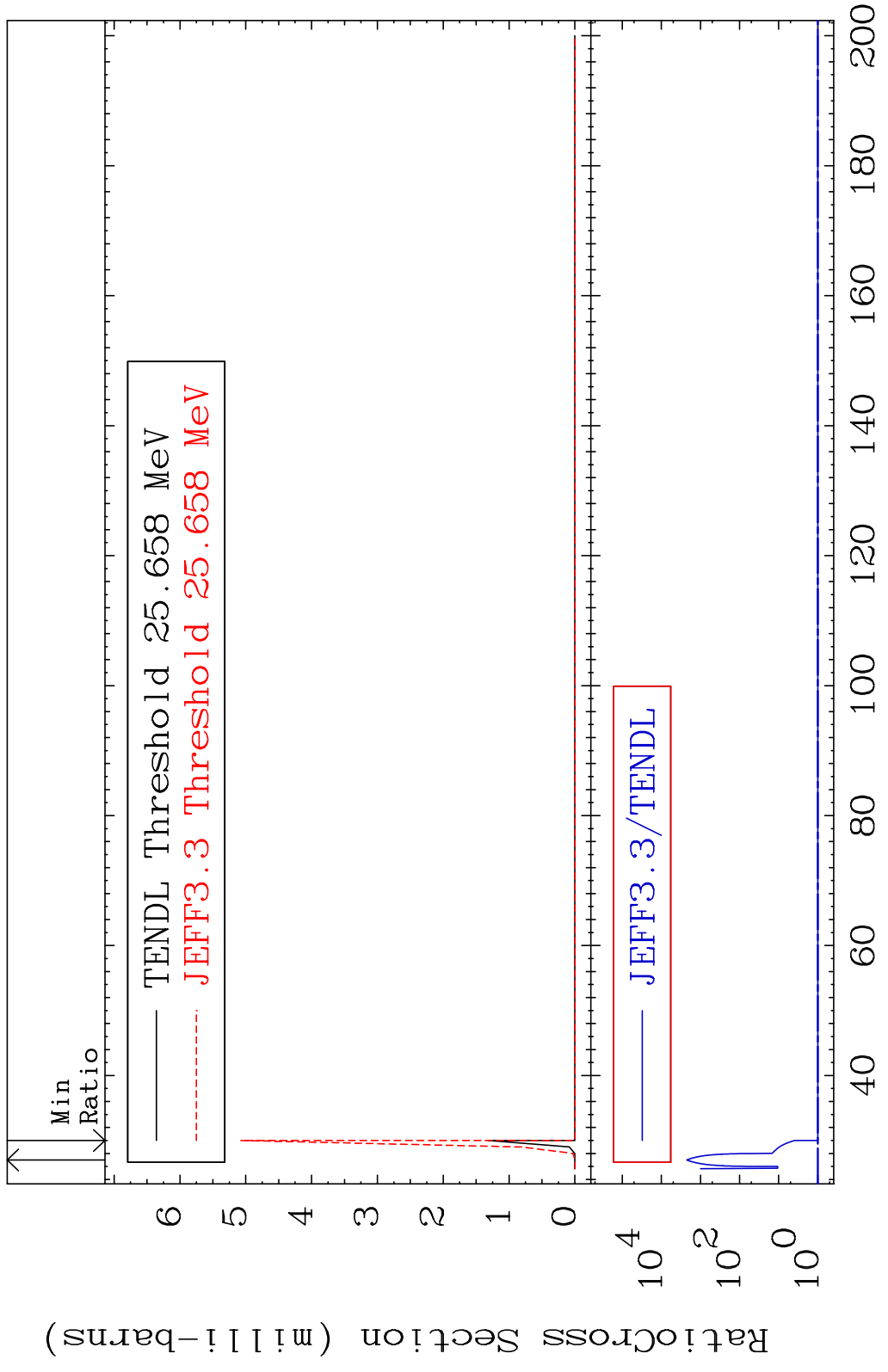
MAT 4428 (n, n') t:43-Tc-94g 44-Ru-97
 Radionuclide Production Cross Section 4424. %

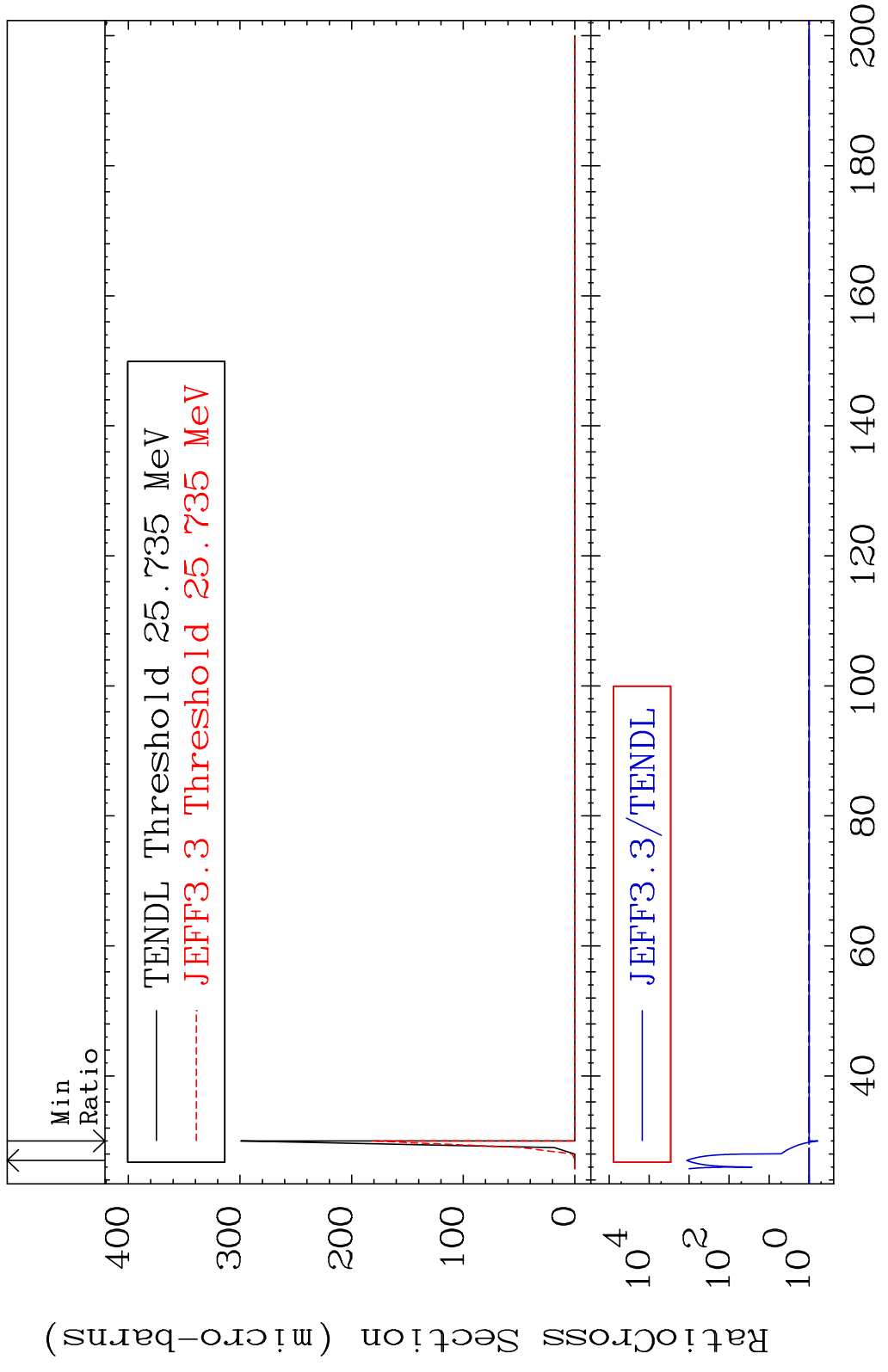


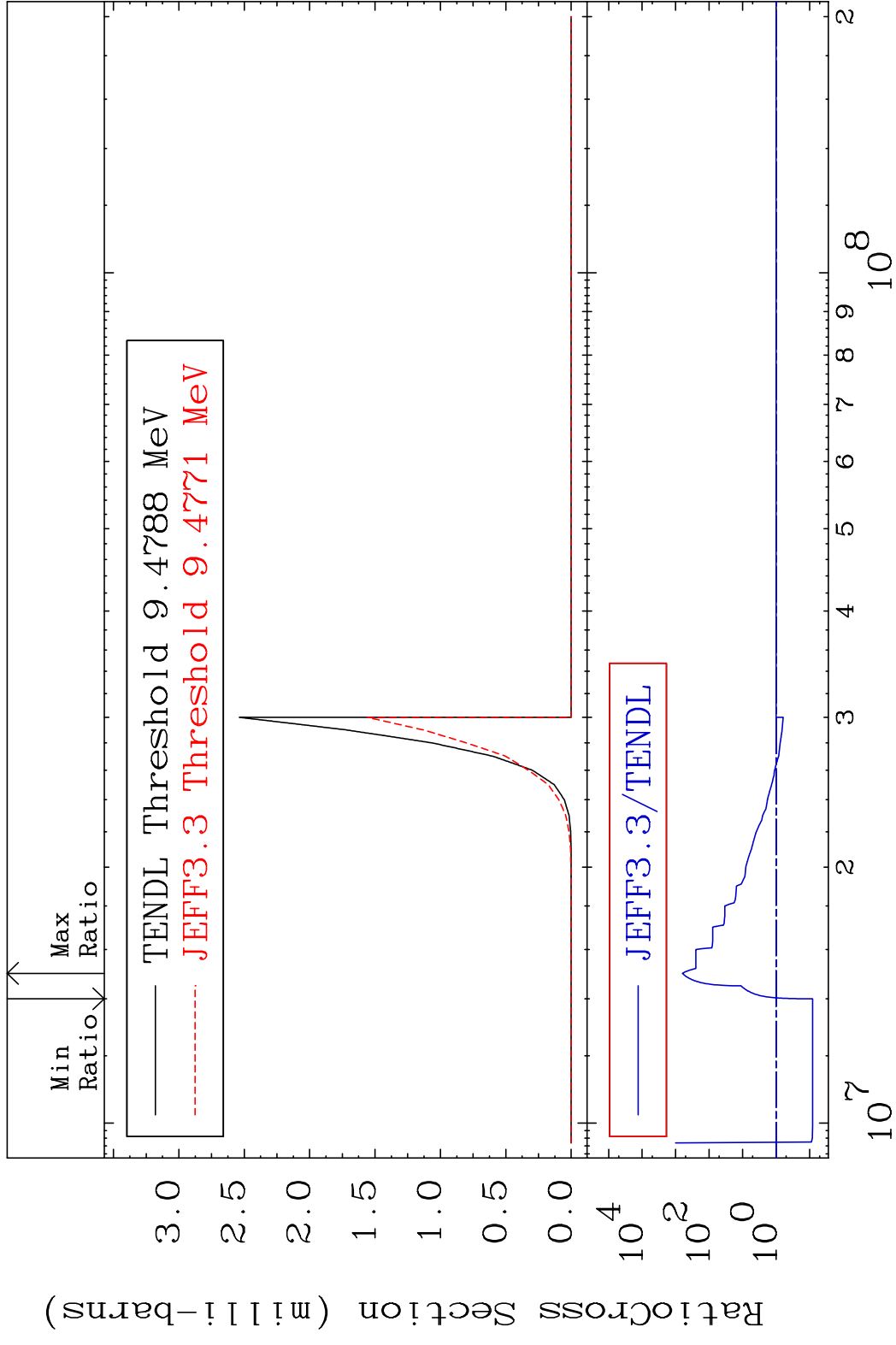




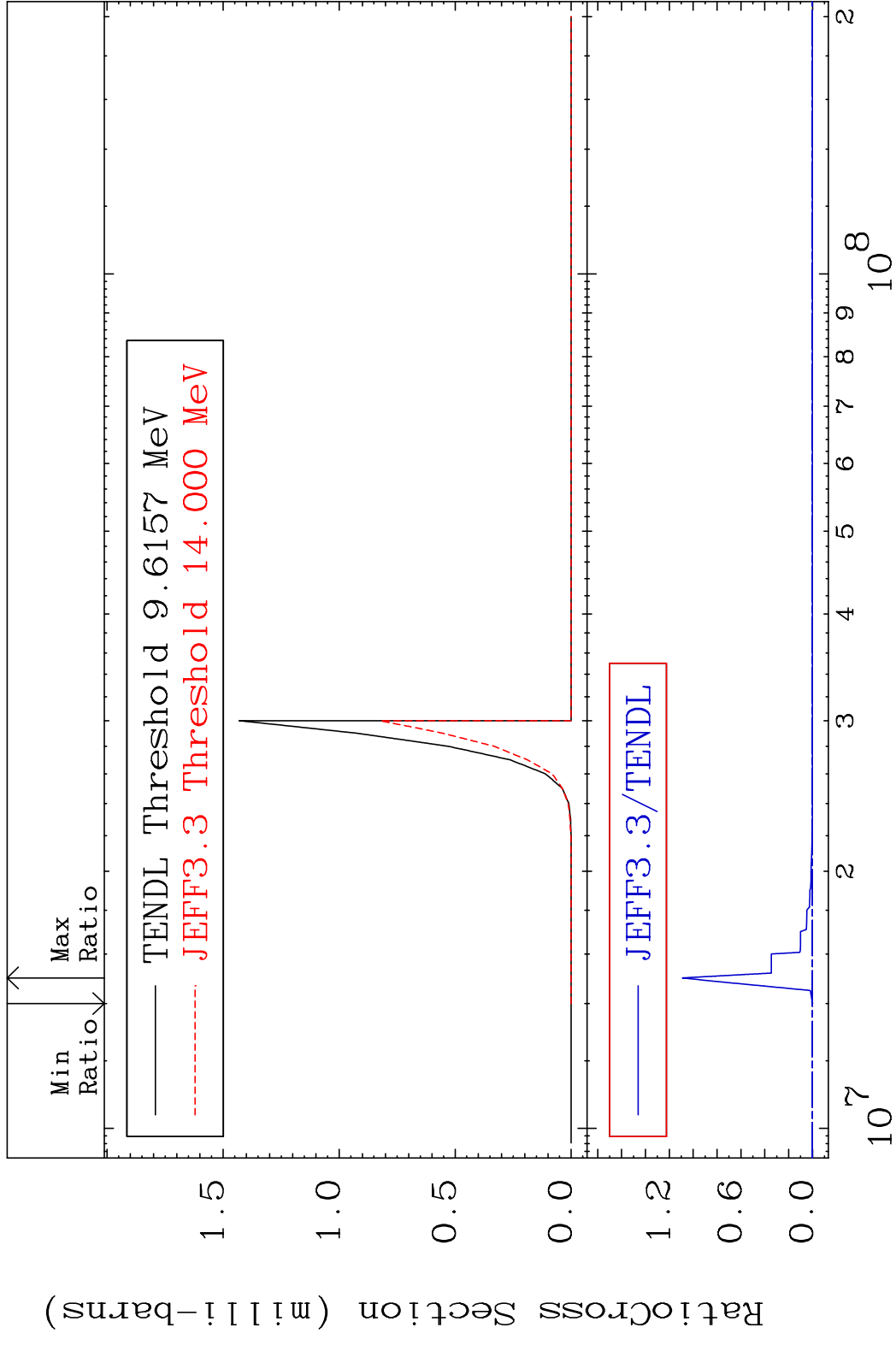








MAT 4428 (n, n') p α : 41-Nb-92m1 44-Ru-97
 Radionuclide Production Cross Section Ratio 9999. %



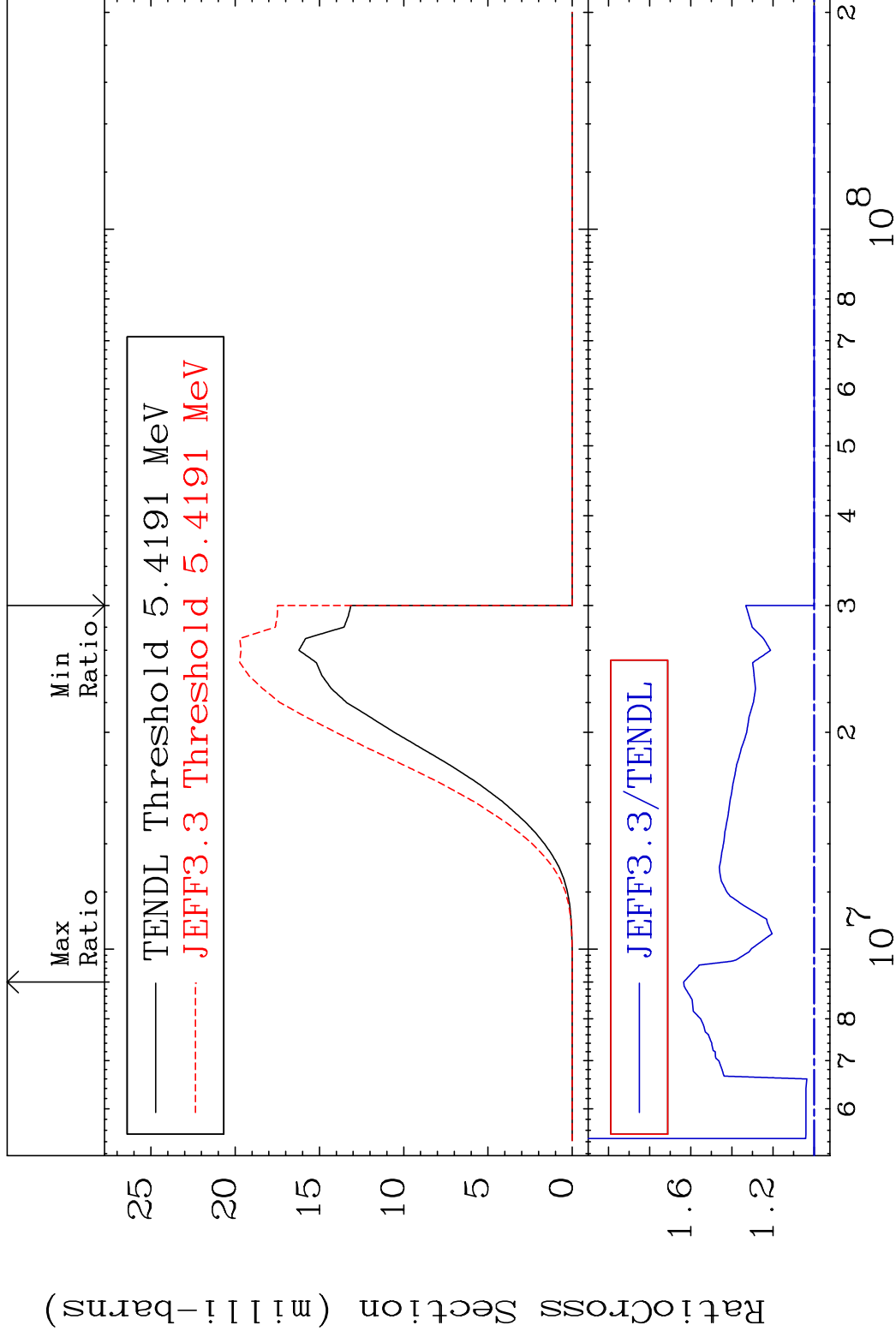
97 Incident Energy (eV) 44-Ru-97

MAT 4428

(n, d) : 43-Tc-96g

44-Ru-97

Radionuclide Production Cross Section 63.46 %

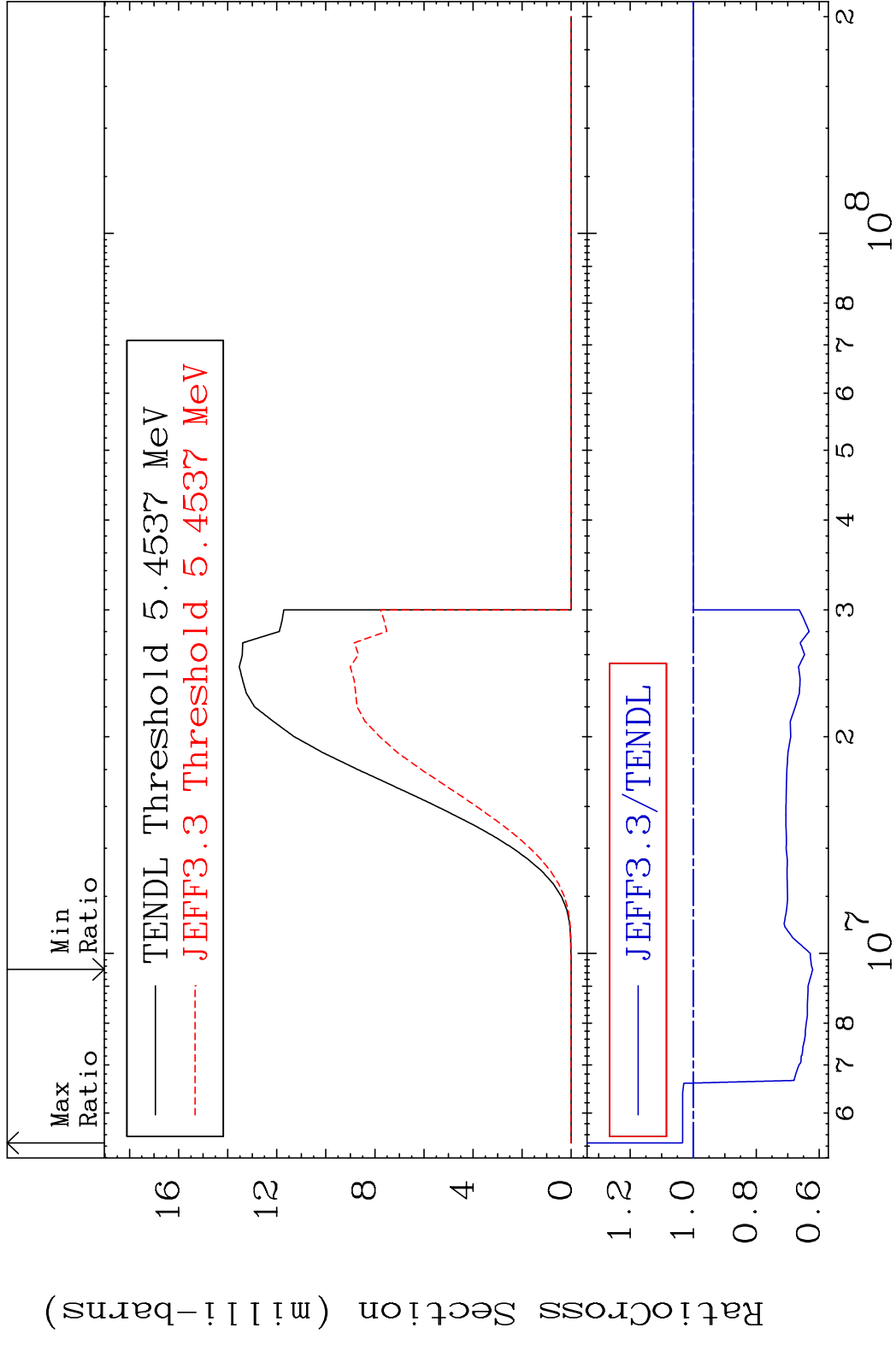


98

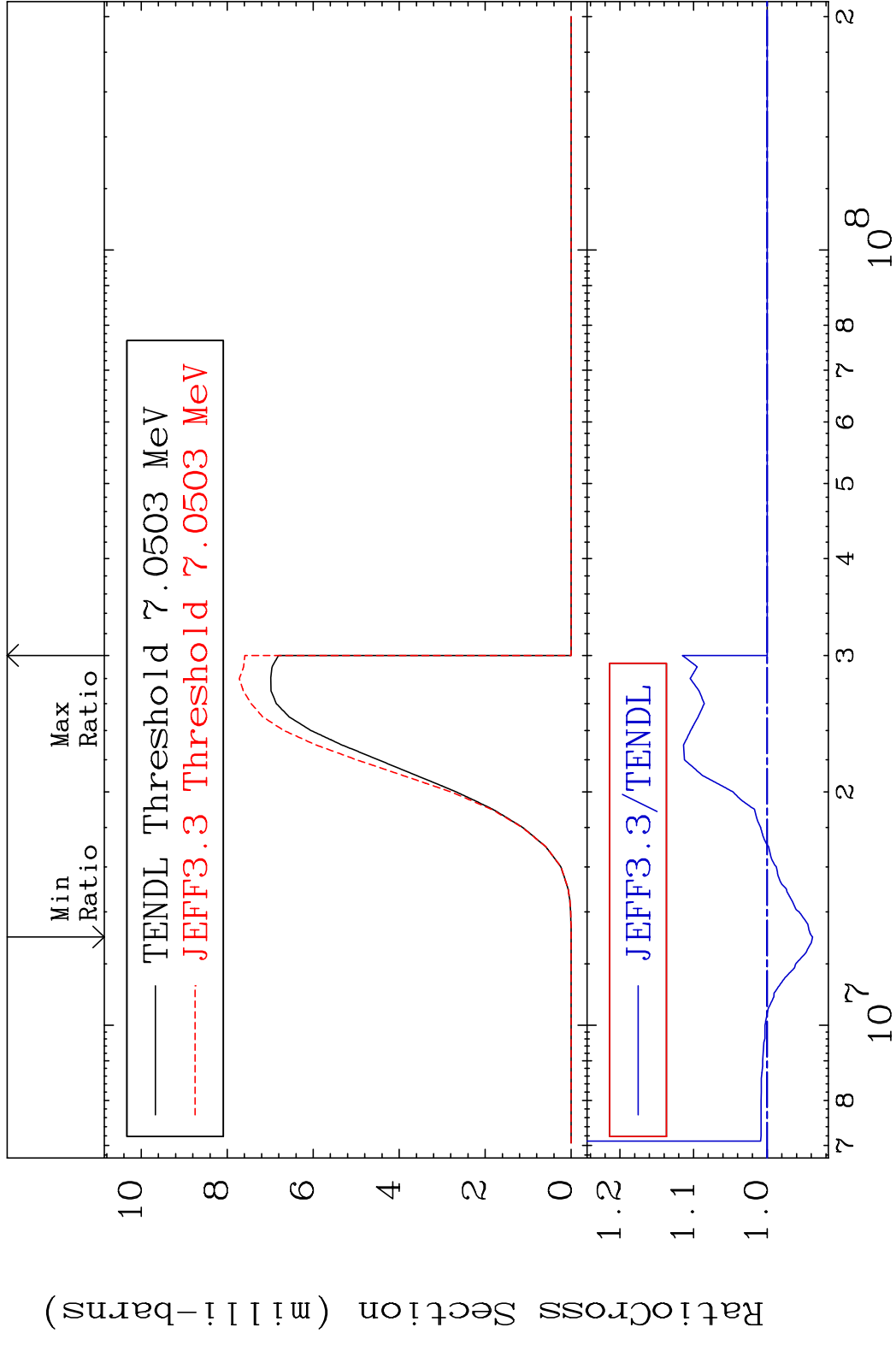
Incident Energy (eV)

44-Ru-97

MAT 4428 (n,d):43-Tc-96m1 44-Ru-97
 Radionuclide Production Cross Section 3.454 %

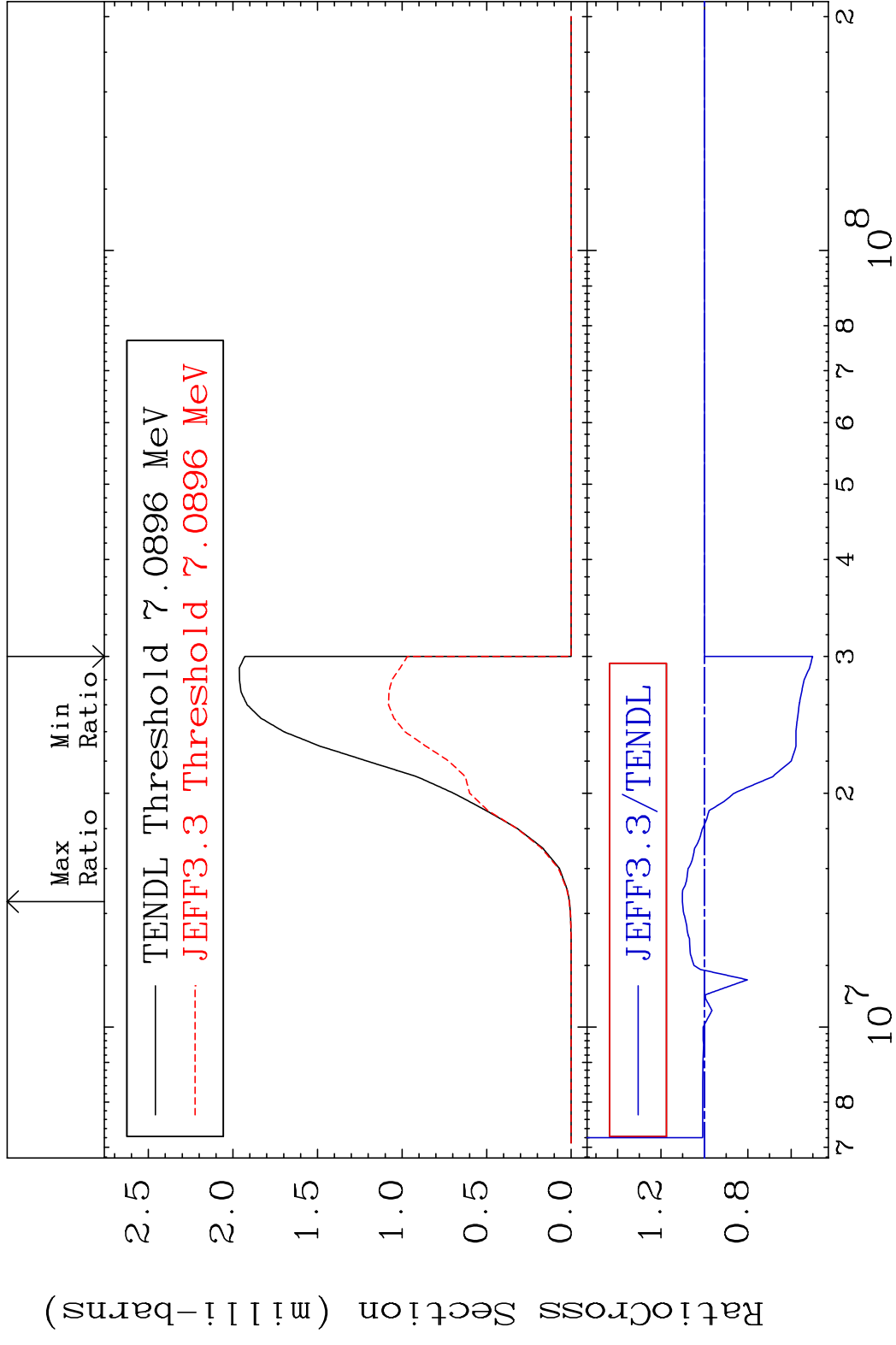


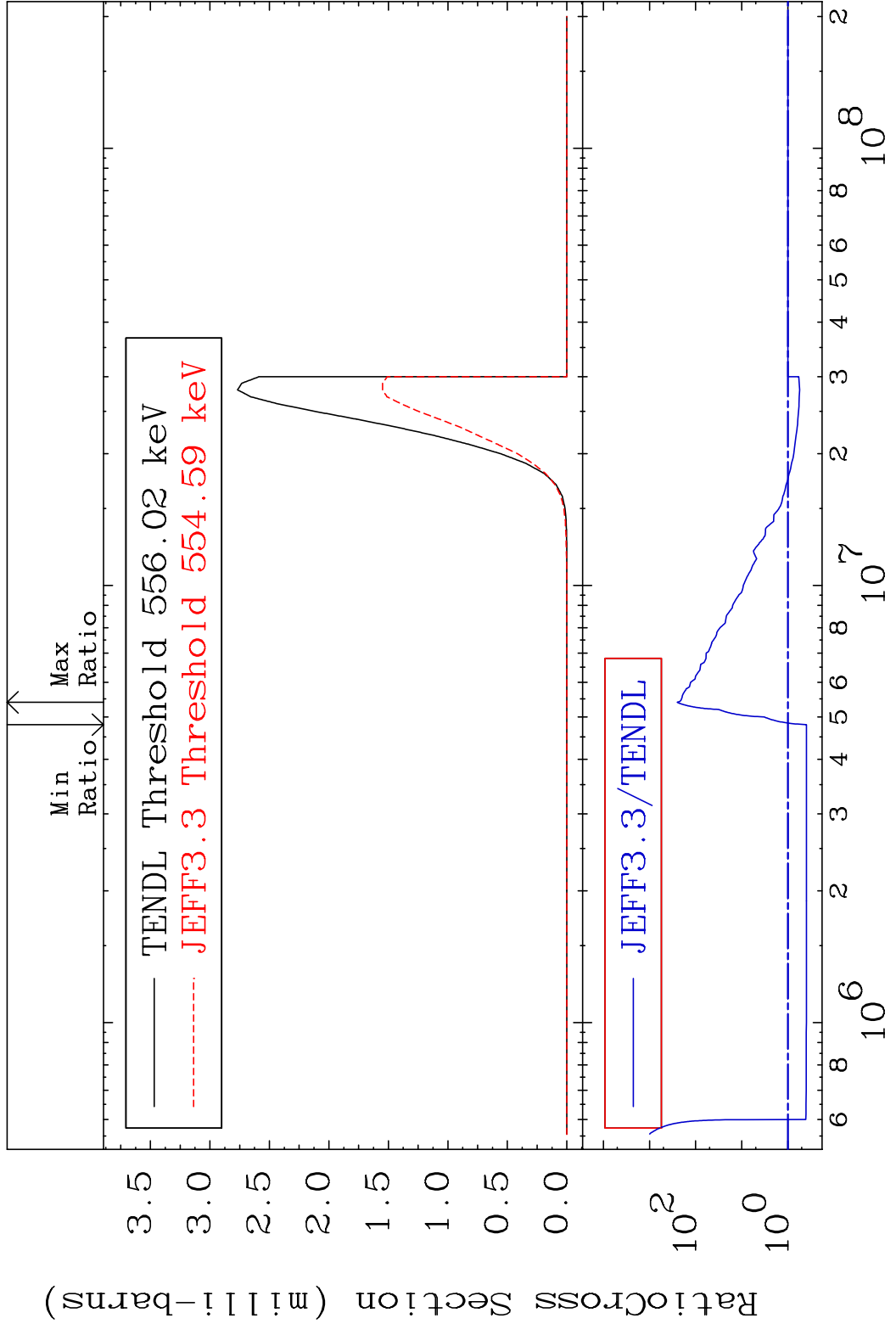
MAT 4428 (n, t): 43-Tc-95g 44-Ru-97
 Radionuclide Production Cross Section 11.52 %



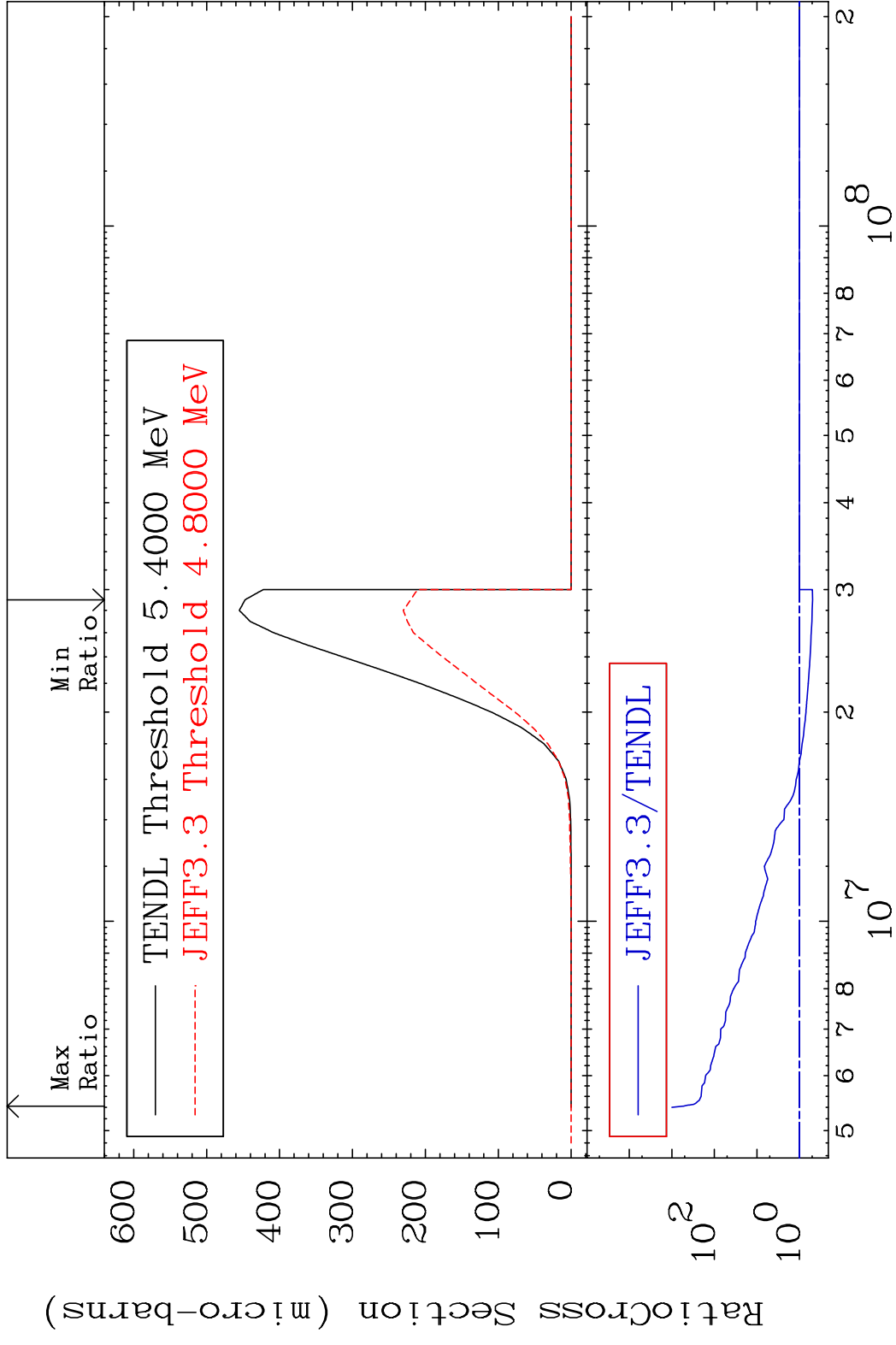
100 Incident Energy (eV) 44-Ru-97

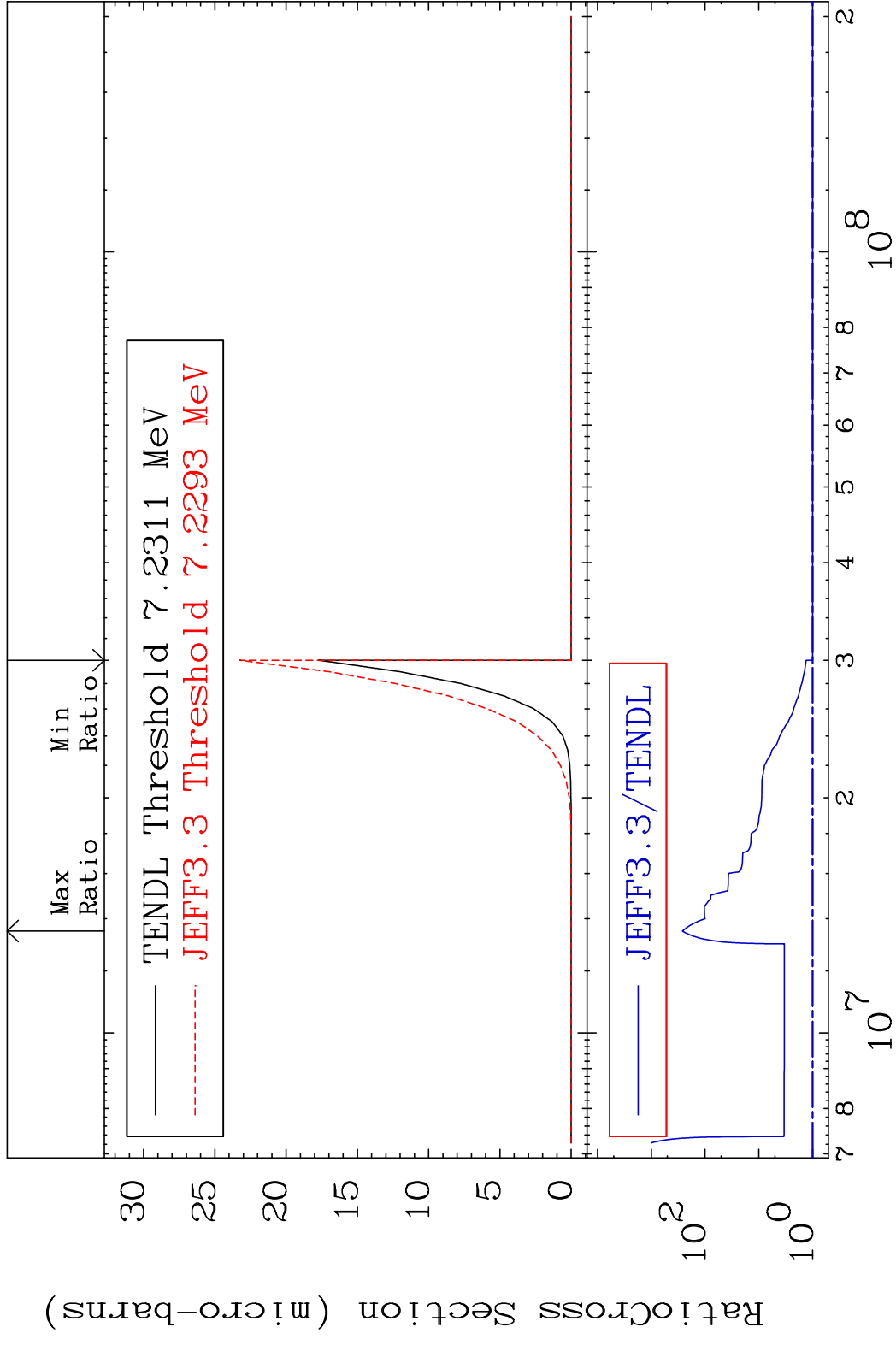
MAT 4428 (n, t): 43-Tc-95m1 44-Ru-97
 Radionuclide Production Cross Section 10.17 %



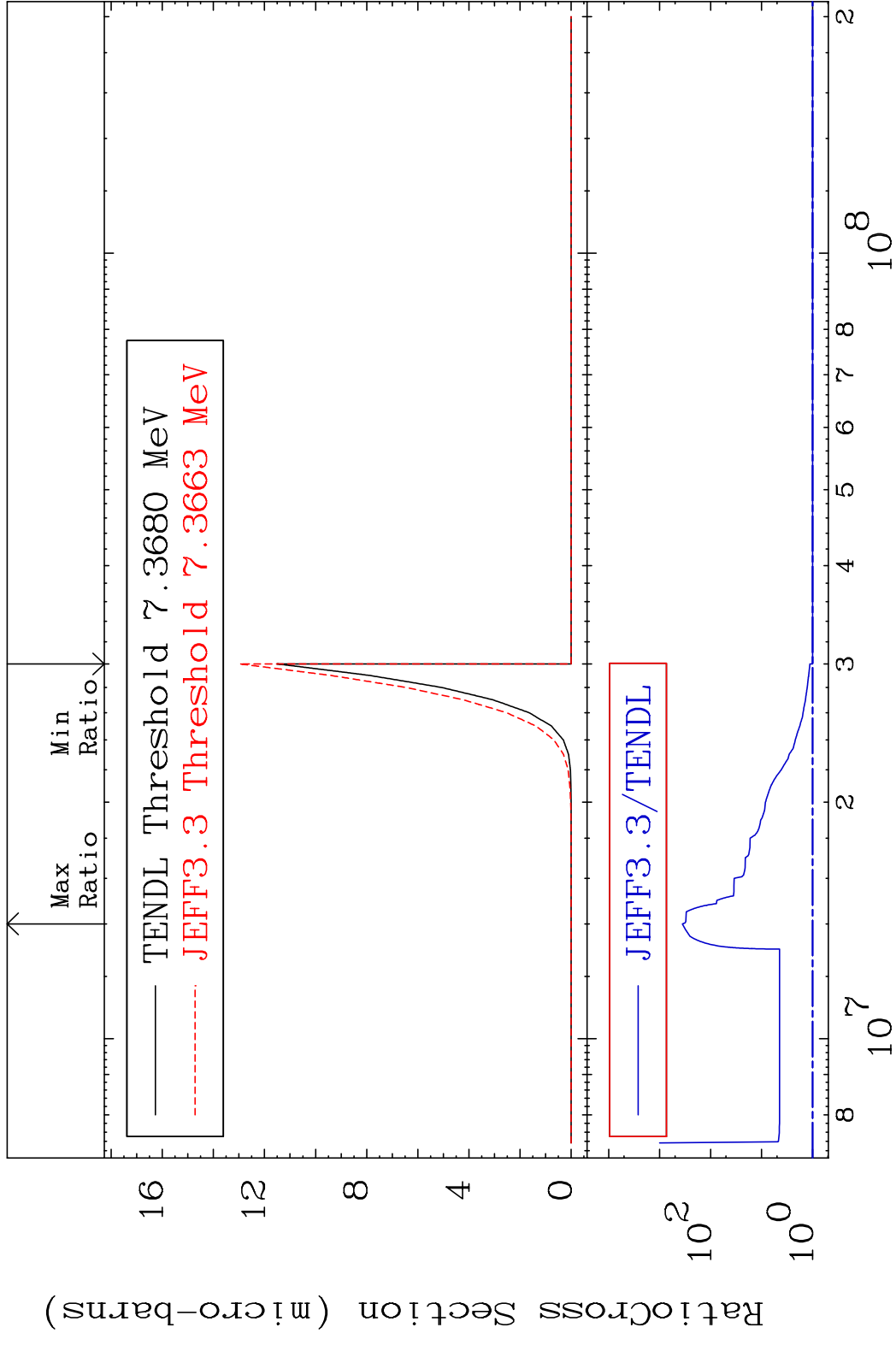


MAT 4428 (n, p) α :41-Nb-93m1 44-Ru-97
 Radionuclide Production Cross Section (%) 9999. %





MAT 4428 (n, d) α :41-Nb-92m1 44-Ru-97
 Radionuclide Production Cross Section 9999. %



105 Incident Energy (eV) 44-Ru-97