

Program Complot
(Version 2021-1)

by

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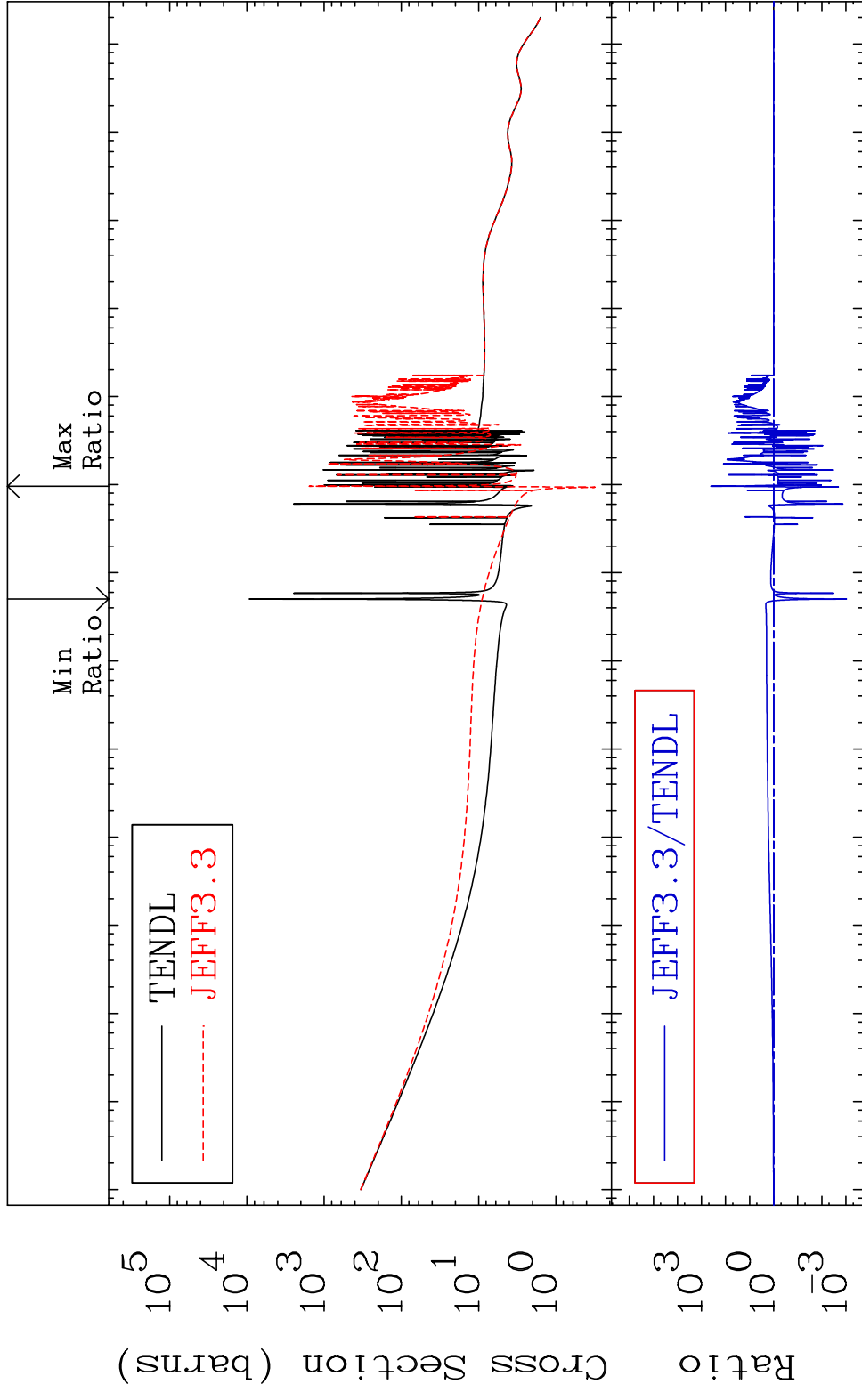
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 3928

Total Cross Section -99.90 To 9999. %

39-Y -90



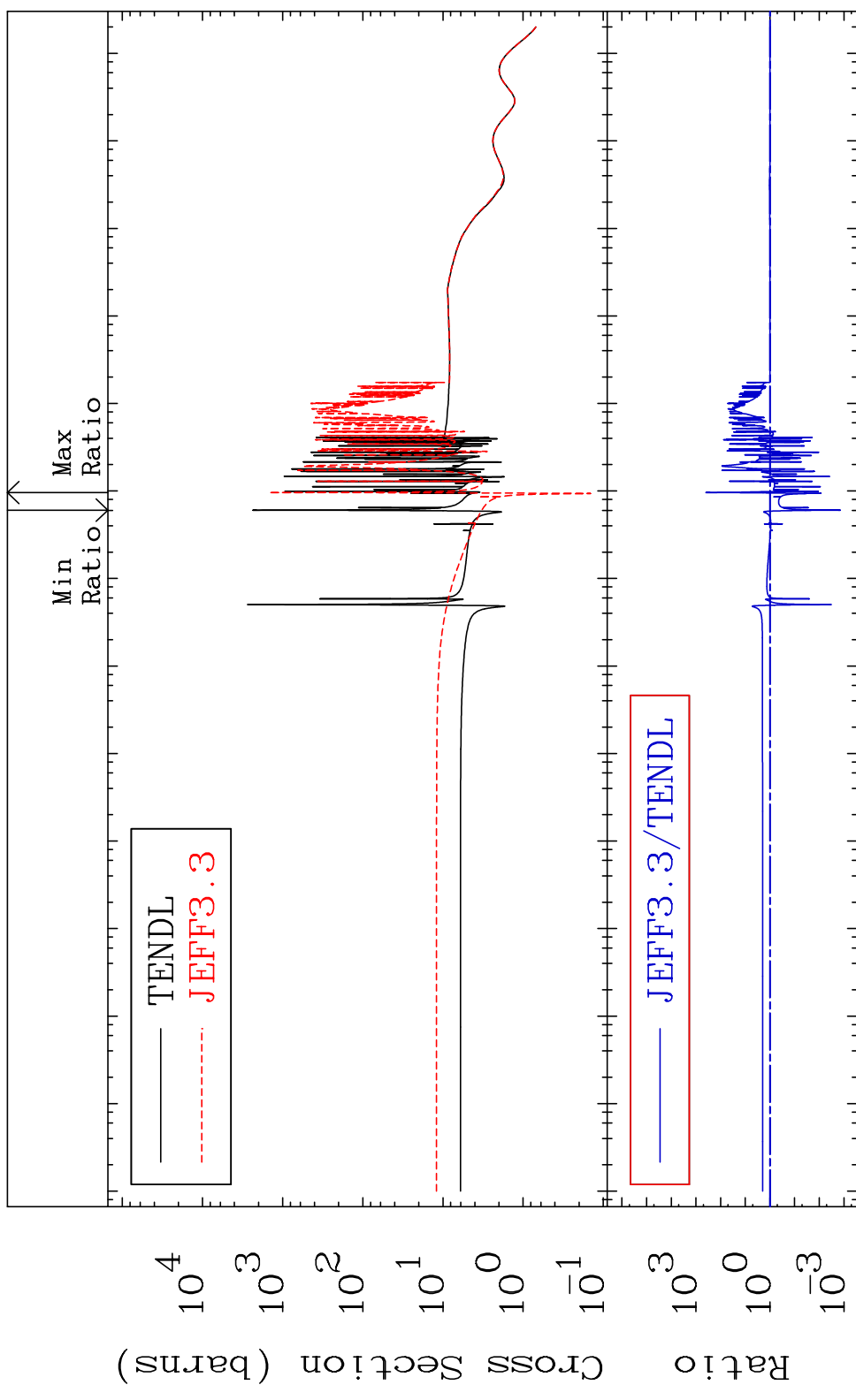
1

Incident Energy (eV)

39-Y -90

MAT 3928

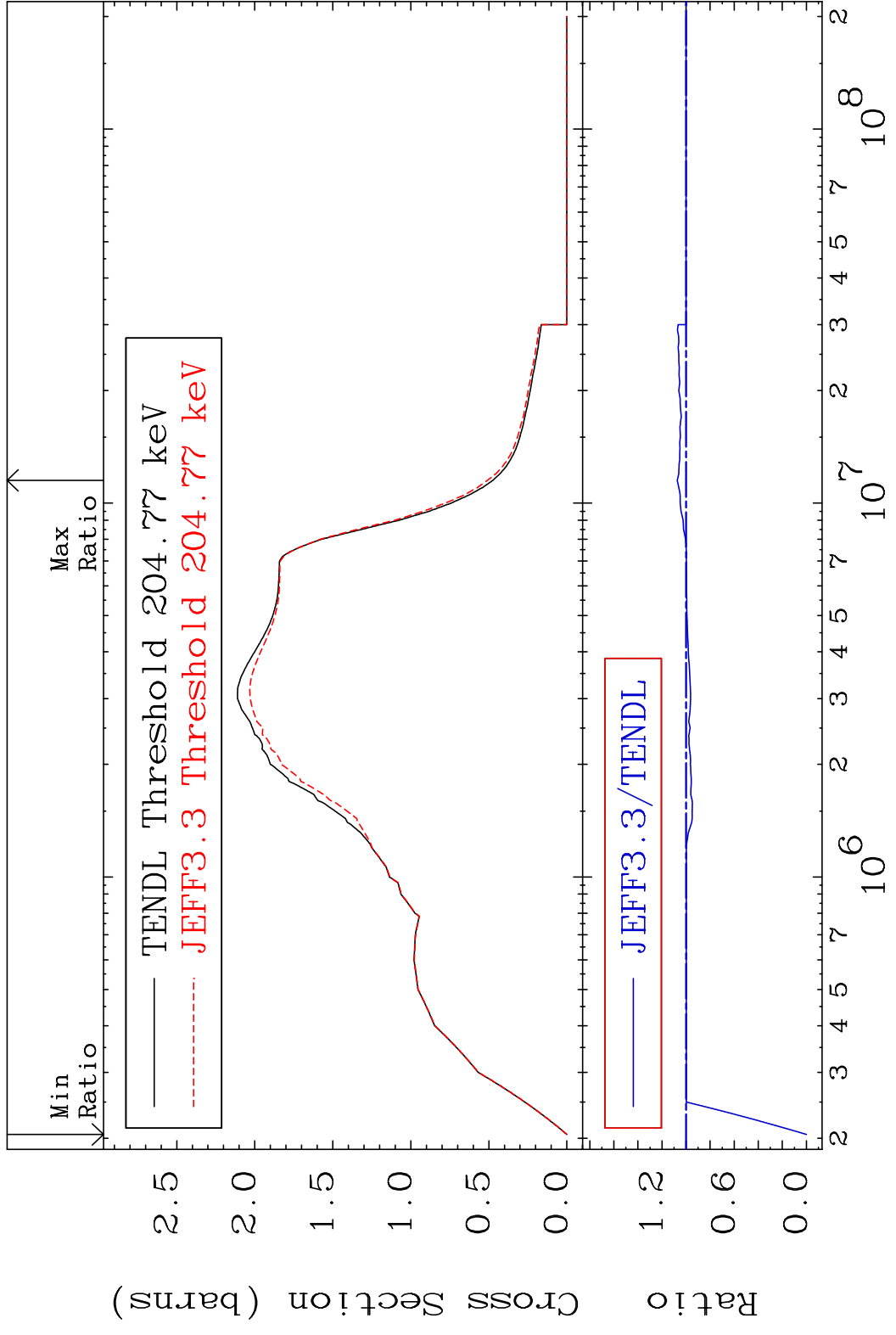
Elastic Cross Section -99.86 To 9999. %
39-Y -90



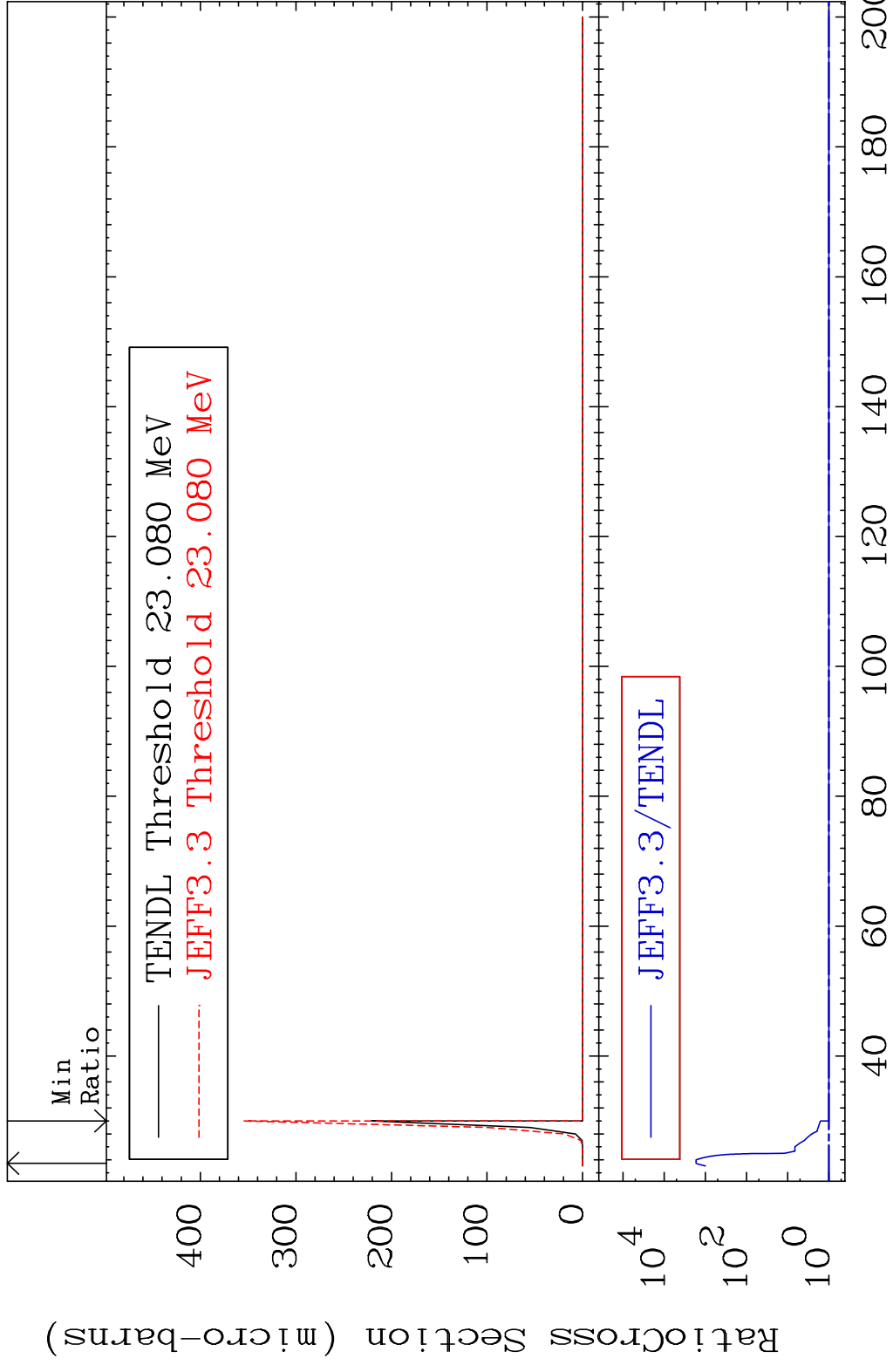
Ratio
10⁴
10³
10²
10¹
10⁰
10⁻¹
10⁻²
10⁻³
10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸
Incident Energy (eV)

2 39-Y -90

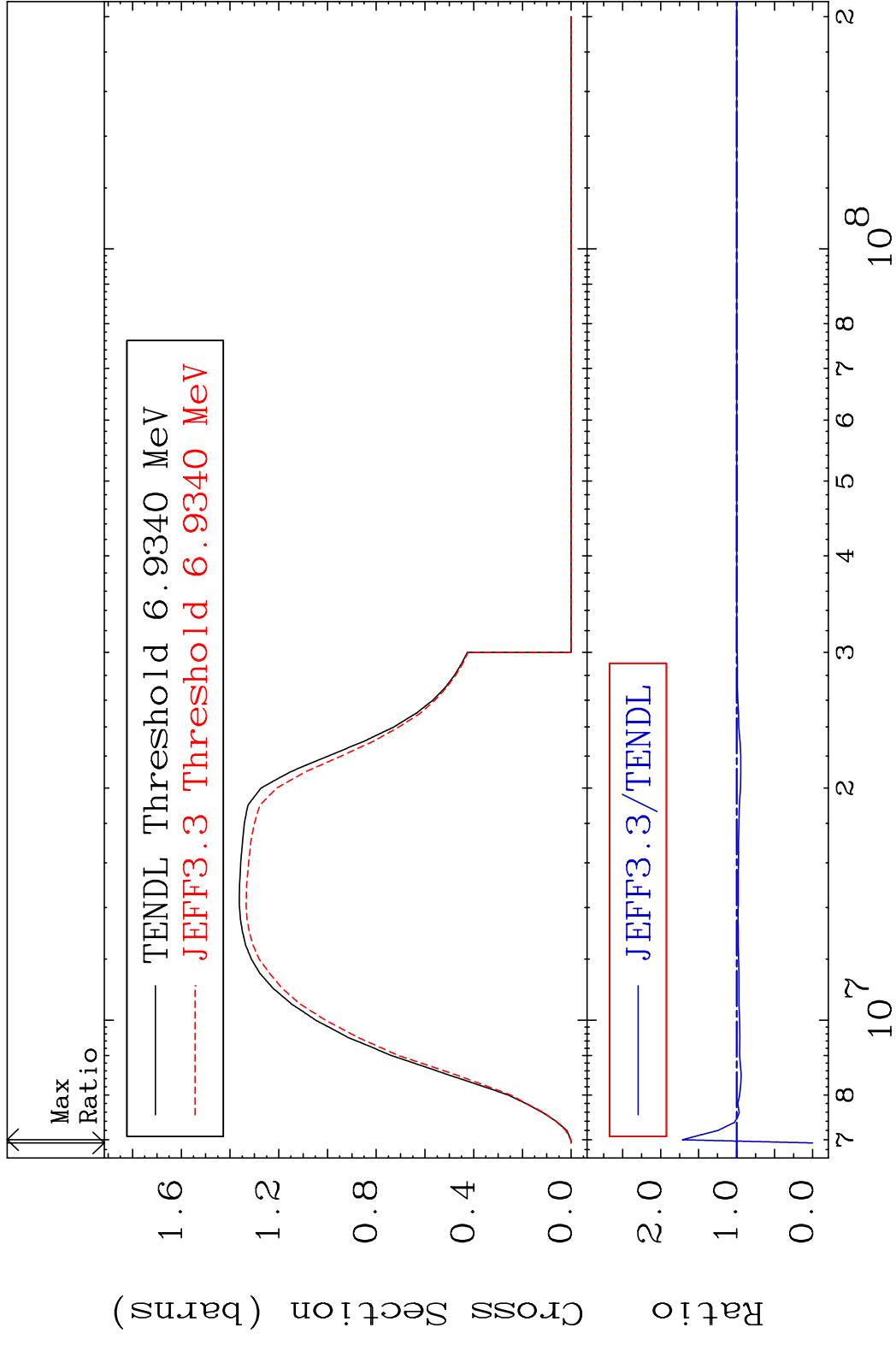
MAT 3928 Inelastic Cross Section -100.0 To 7.377 % 39-Y -90



MAT 3928 (n,2n) d 39-Y -90
 Cross Section 0.000 To 9999. %



MAT 3928 (n,2n) 39-Y -90
 Cross Section -100.0 To 71.43 %



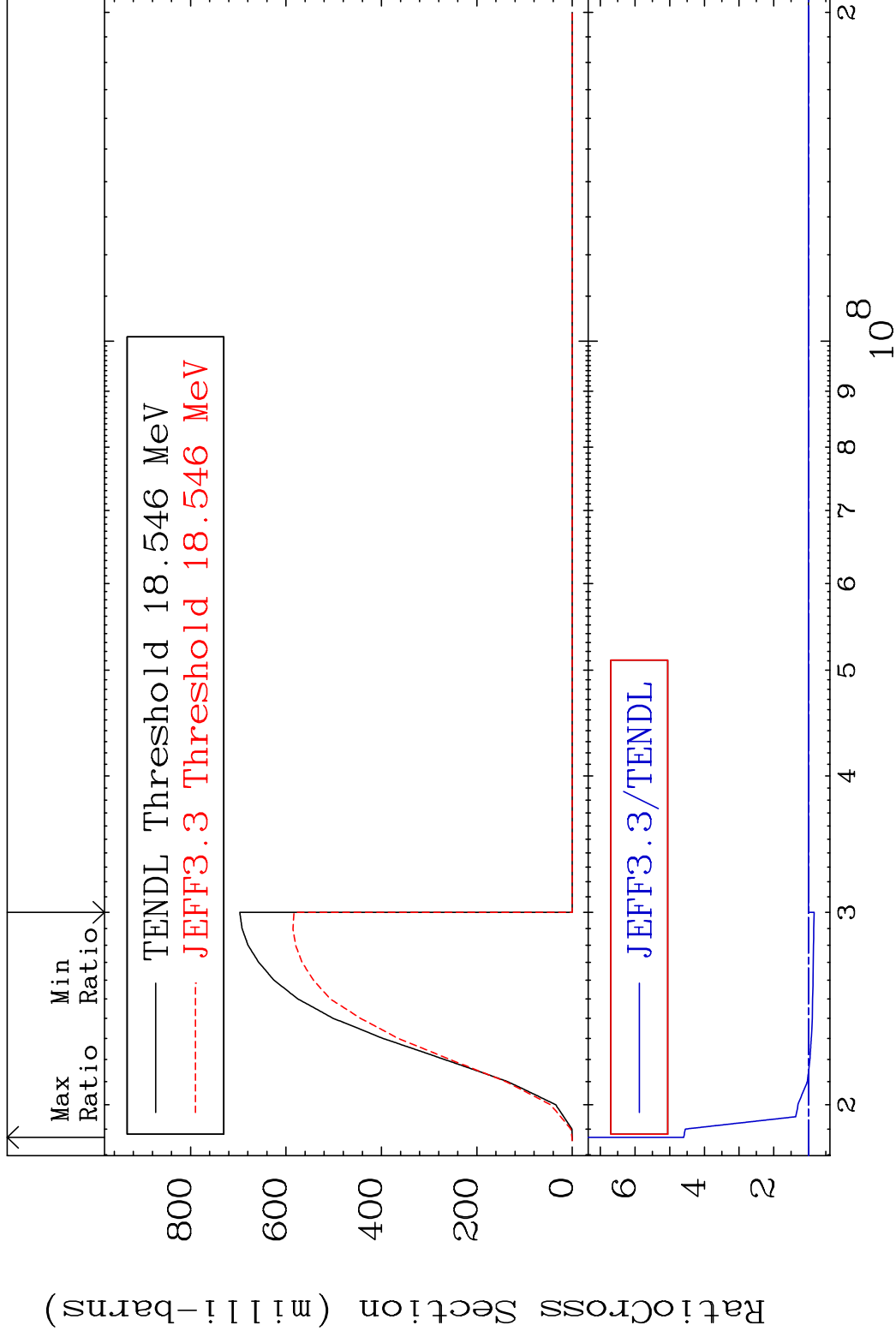
5 Incident Energy (eV) 39-Y -90

MAT 3928

(n,3n)

39-Y -90

Cross Section -16.31 To 359.8 %

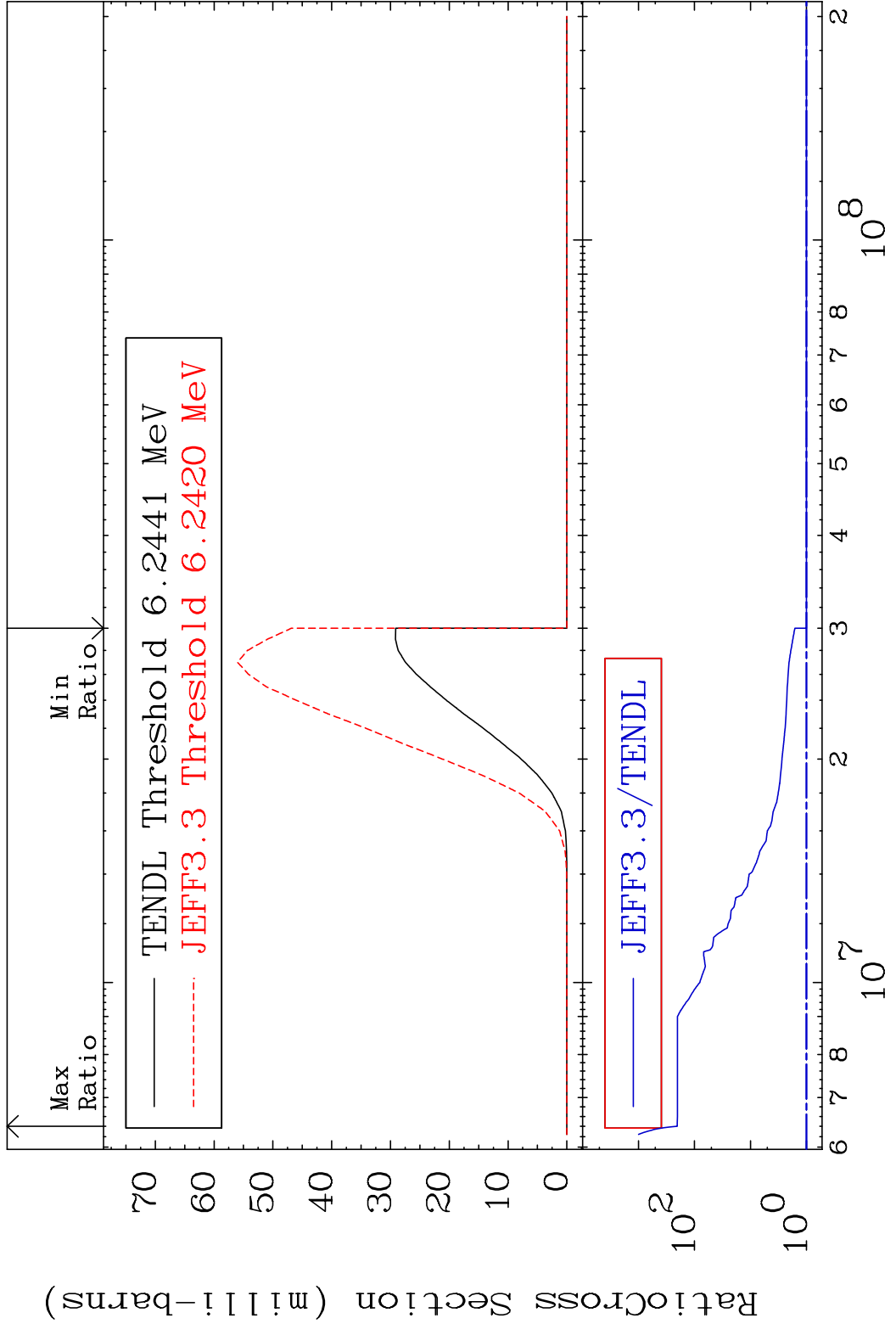


6

Incident Energy (eV)

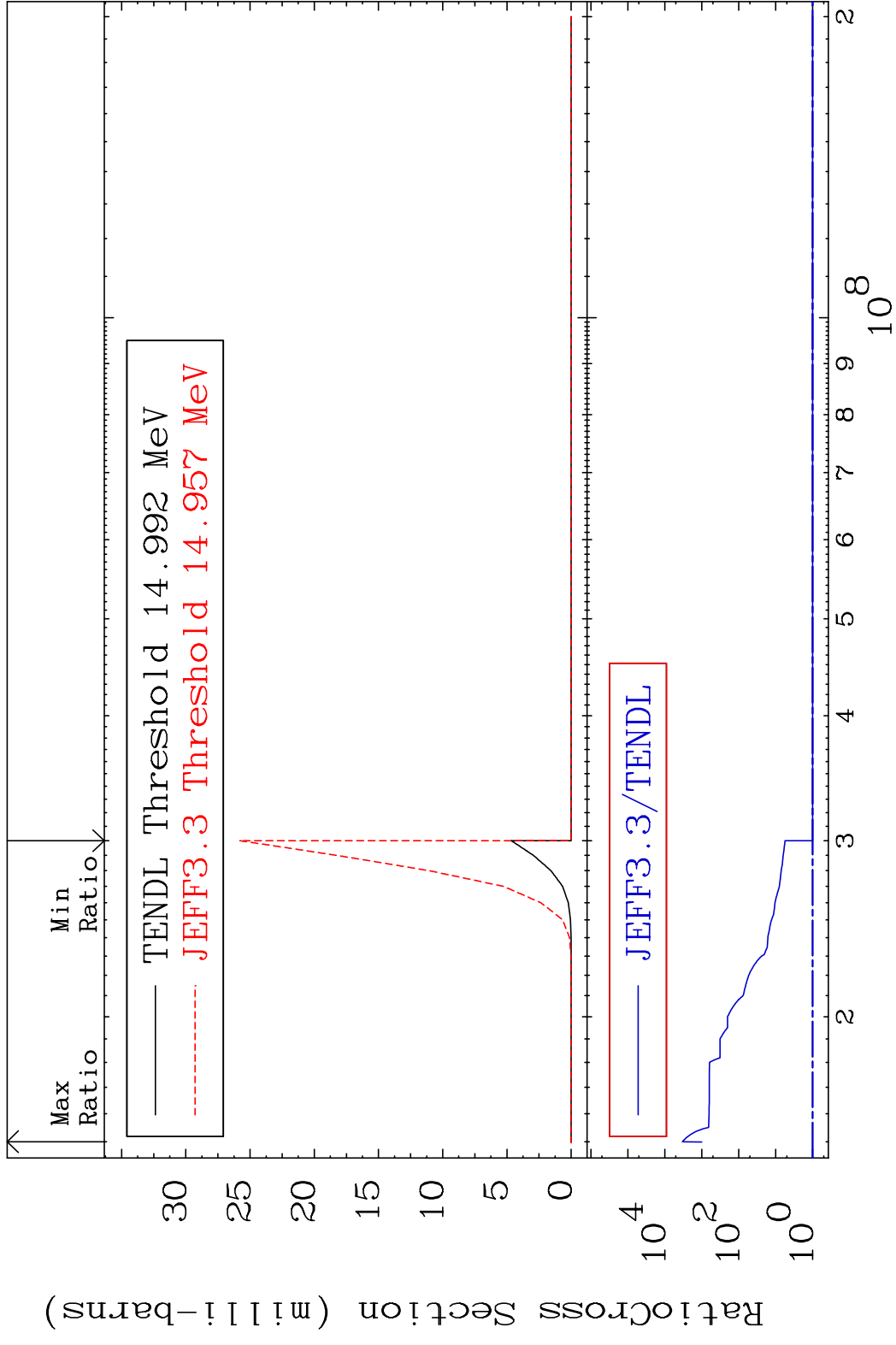
39-Y -90

MAT 3928 (n, n') α 39-Y -90
 Cross Section 0.000 To 9999. %

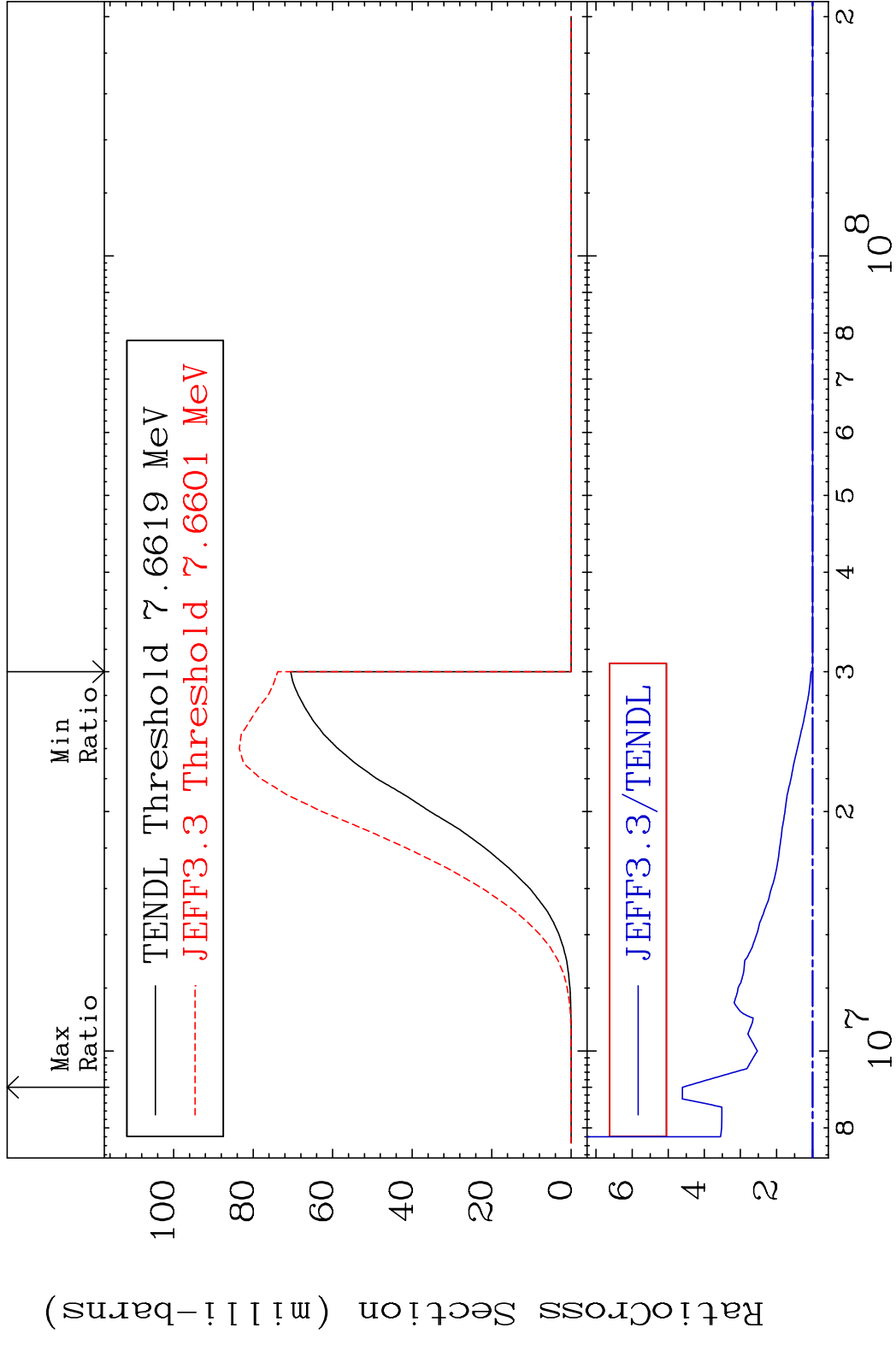


7 39-Y -90

MAT 3928 (n,2n) α 39-Y -90
 Cross Section 0.000 To 9999. %



MAT 3928 (n, n') p 39-Y -90
 Cross Section 0.000 To 360.8 %

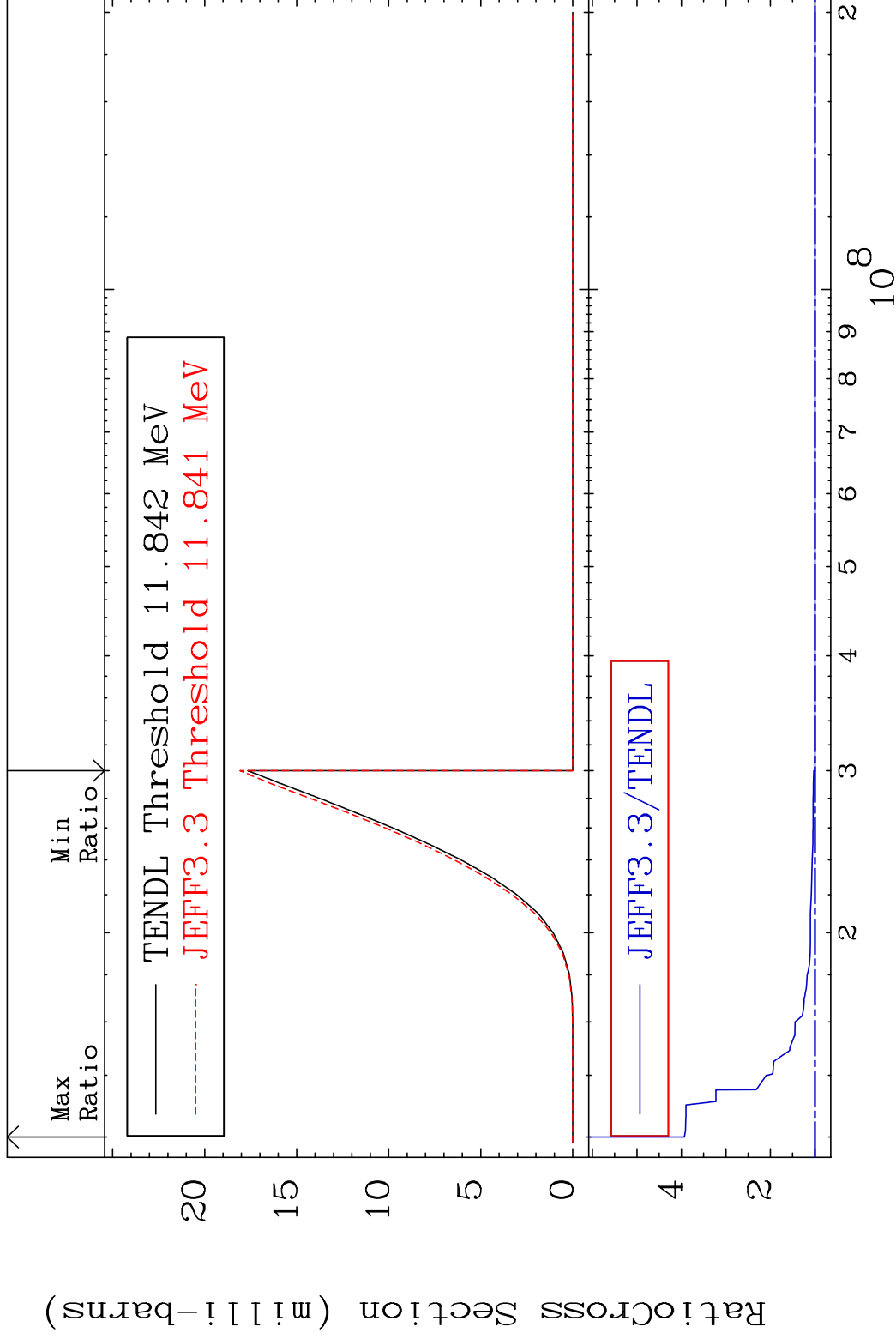


MAT 3928

(n, n') d

39-Y -90

Cross Section 0.000 To 293.4 %

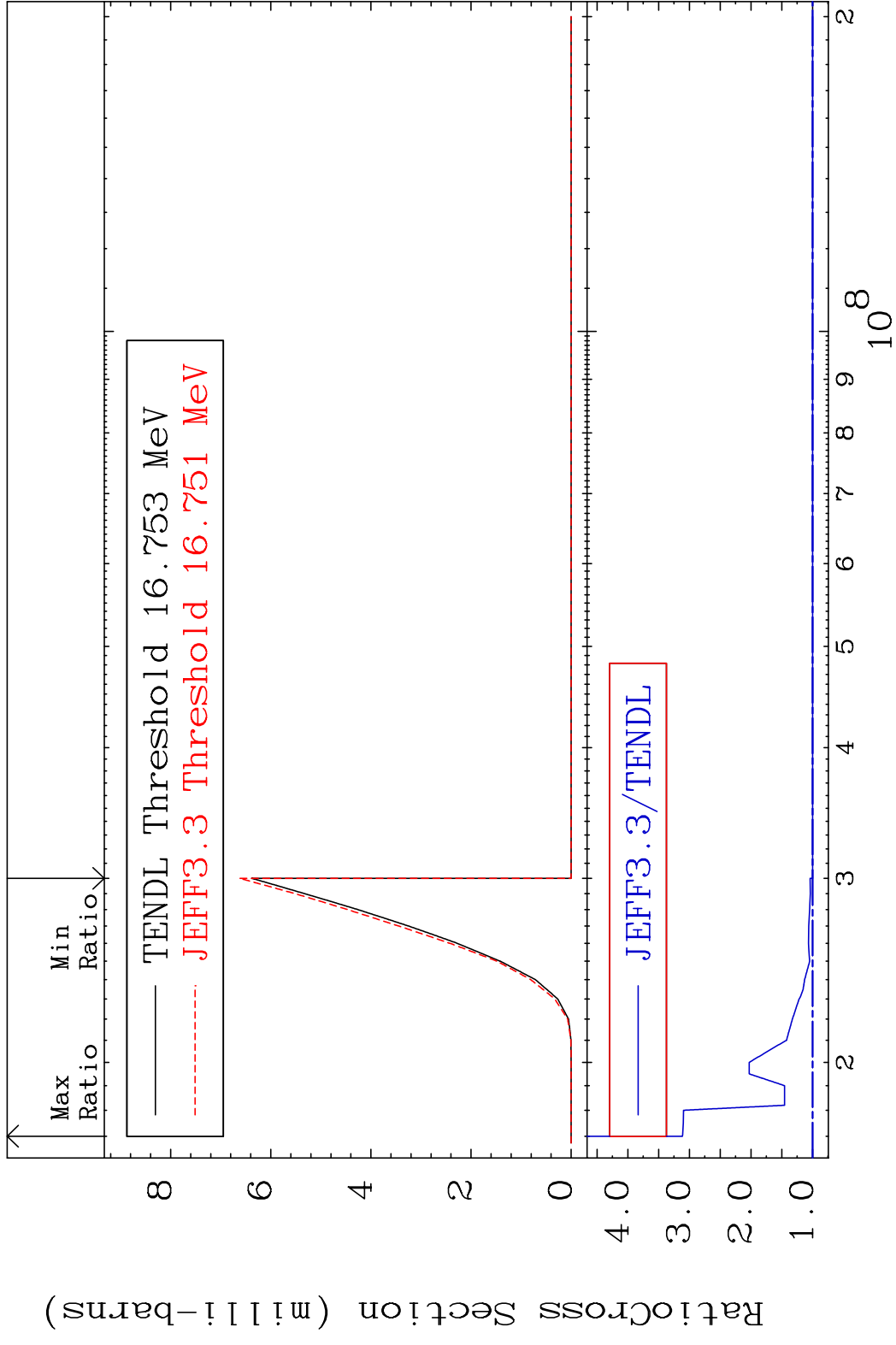


10

Incident Energy (eV)

39-Y -90

MAT 3928 (n, n') t 39-Y -90
 Cross Section 0.000 To 211.5 %

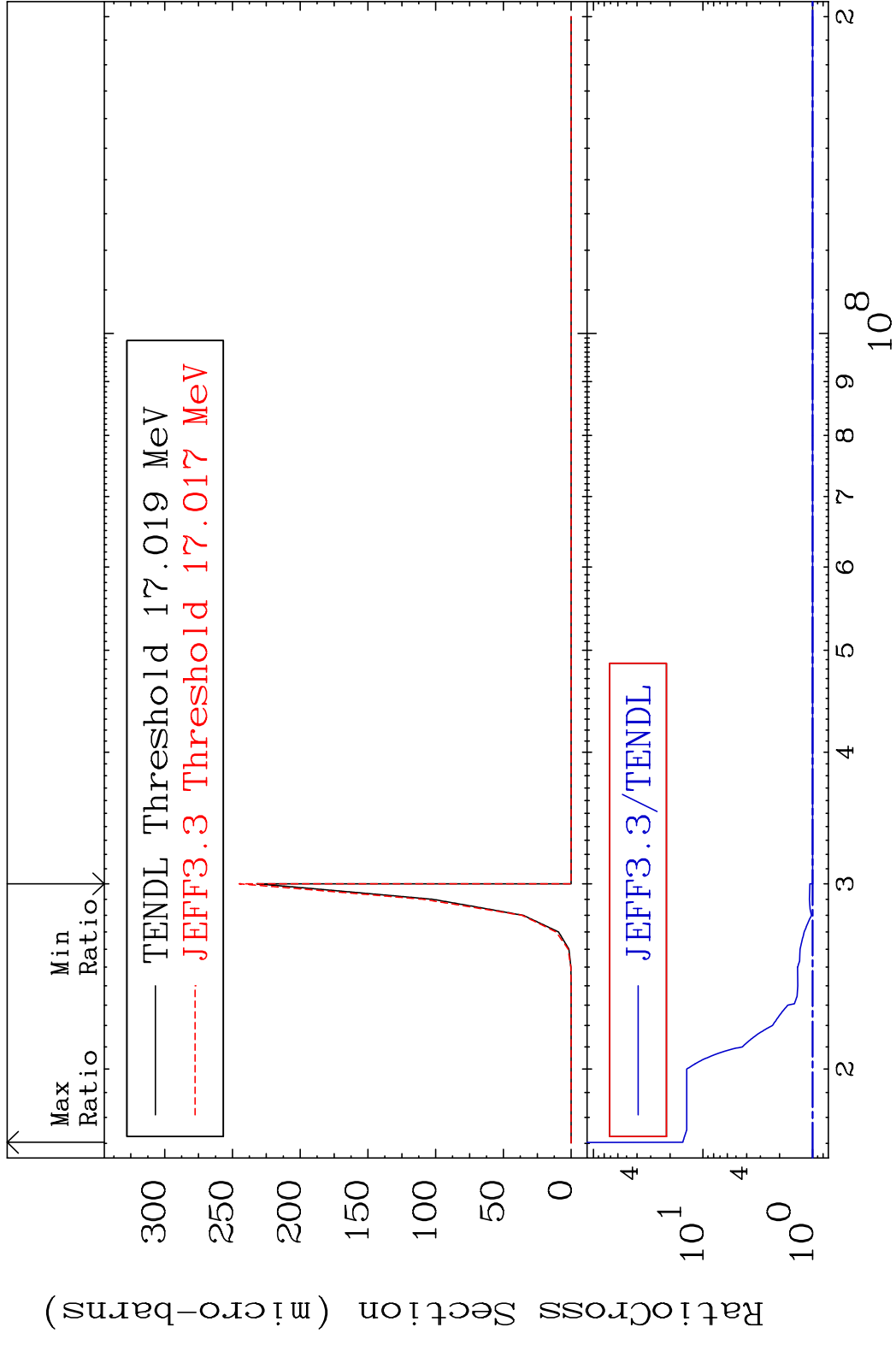


MAT 3928

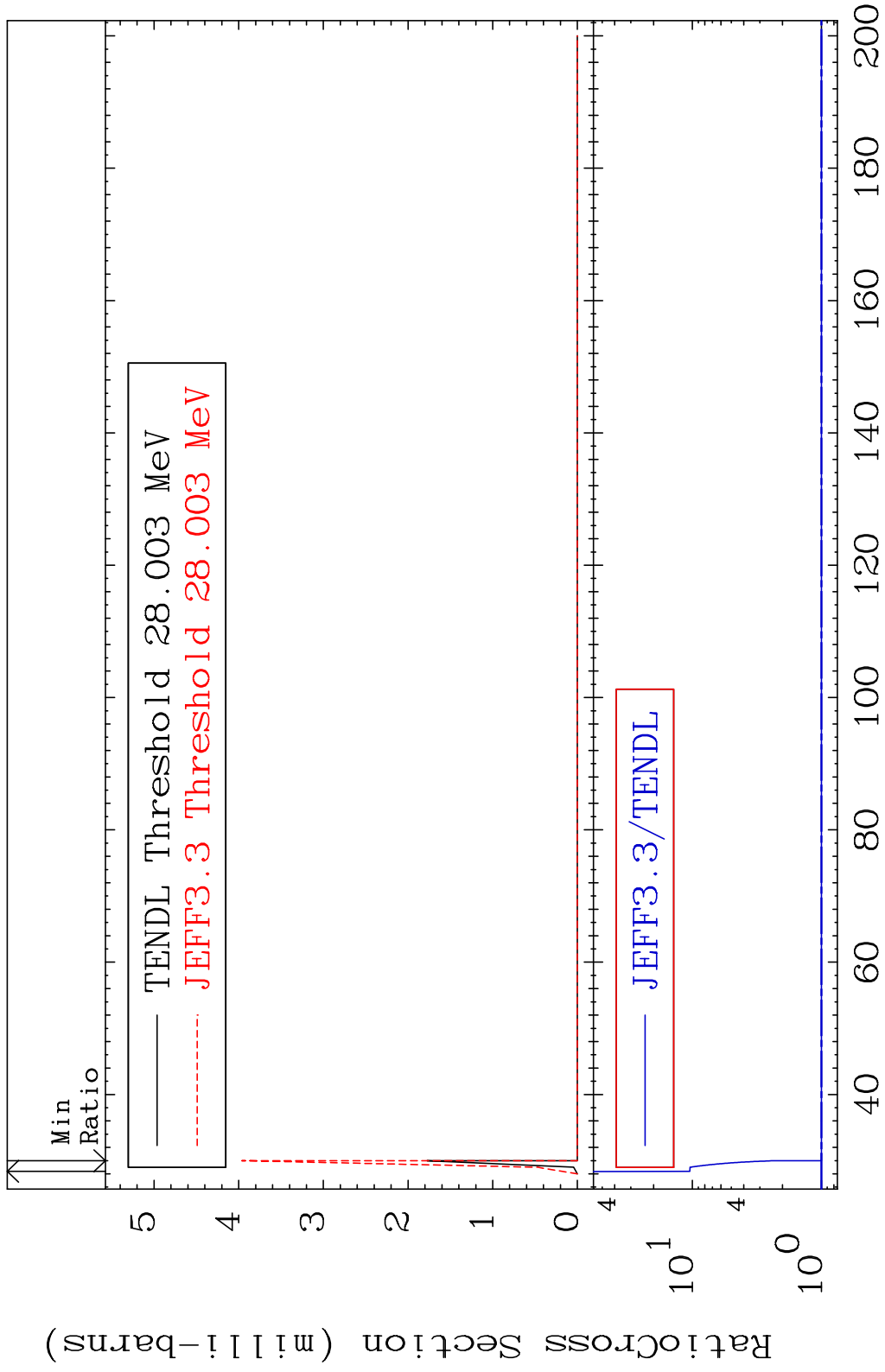
(n,n') He-3

39-Y -90

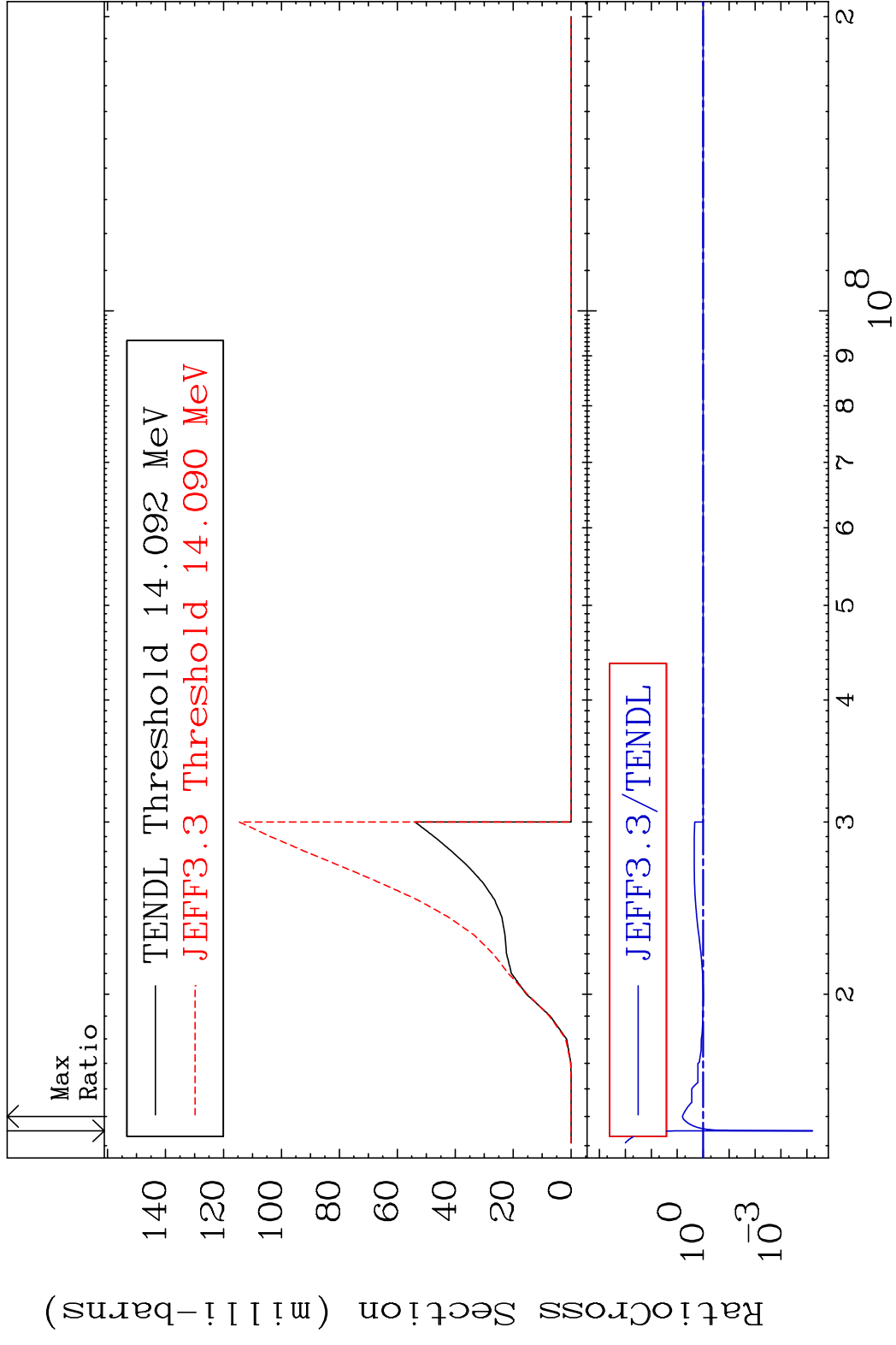
Cross Section 0.000 To 1444. %



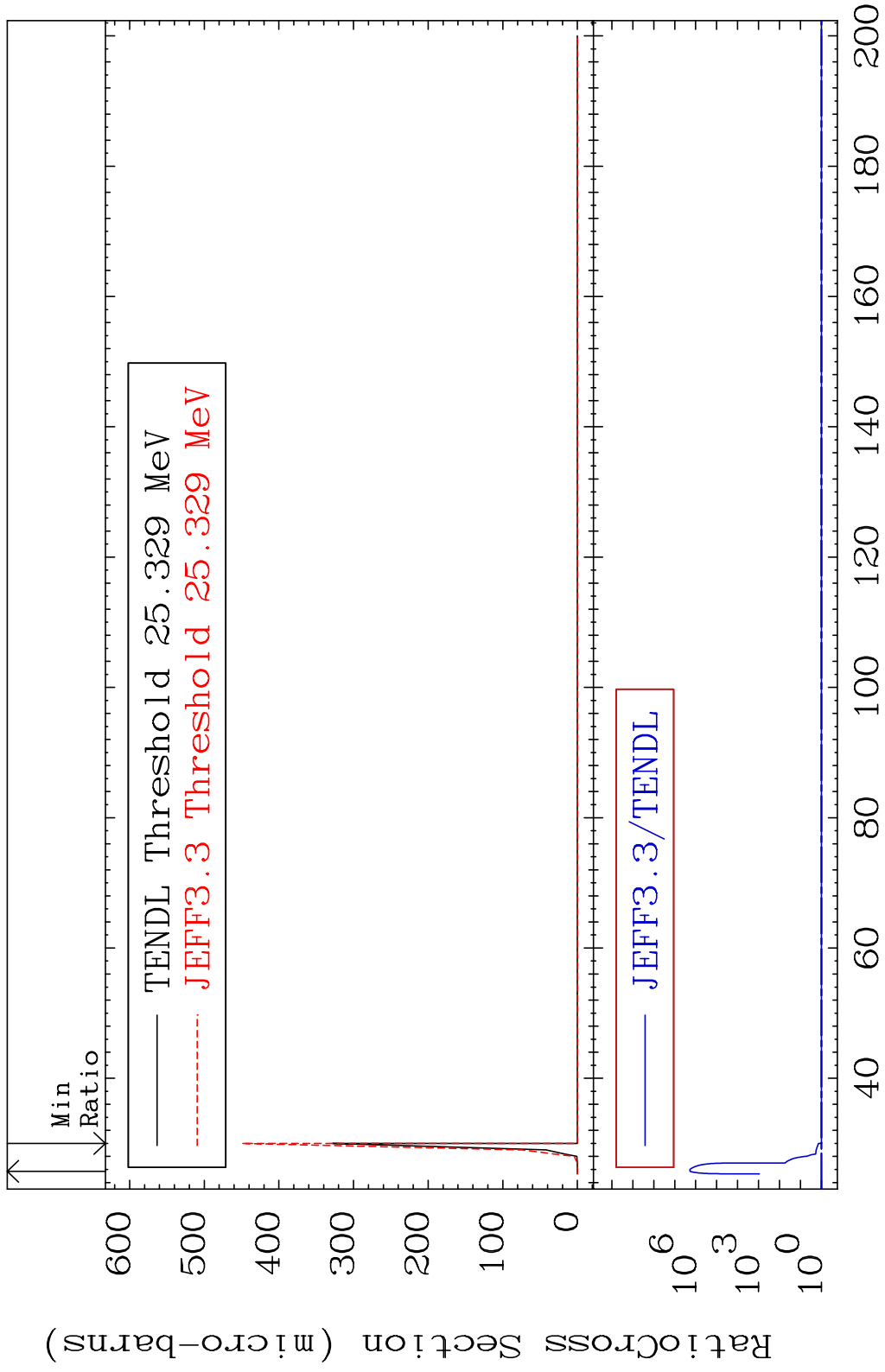
MAT 3928 (n,4n) 39-Y -90
 Cross Section 0.000 To 947.1 %



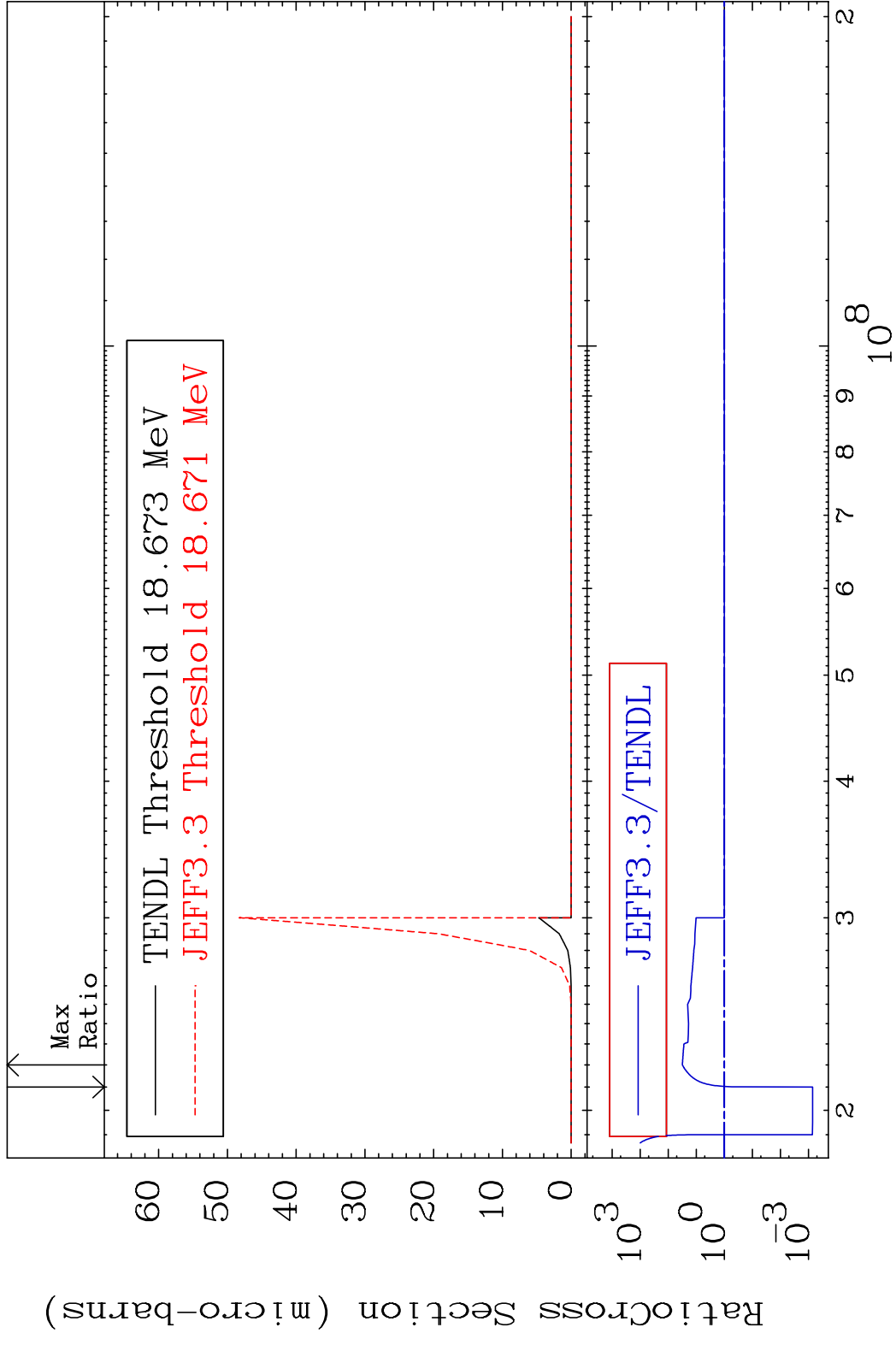
MAT 3928 (n,2n) p 39-Y -90
 Cross Section -99.99 To 534.4 %



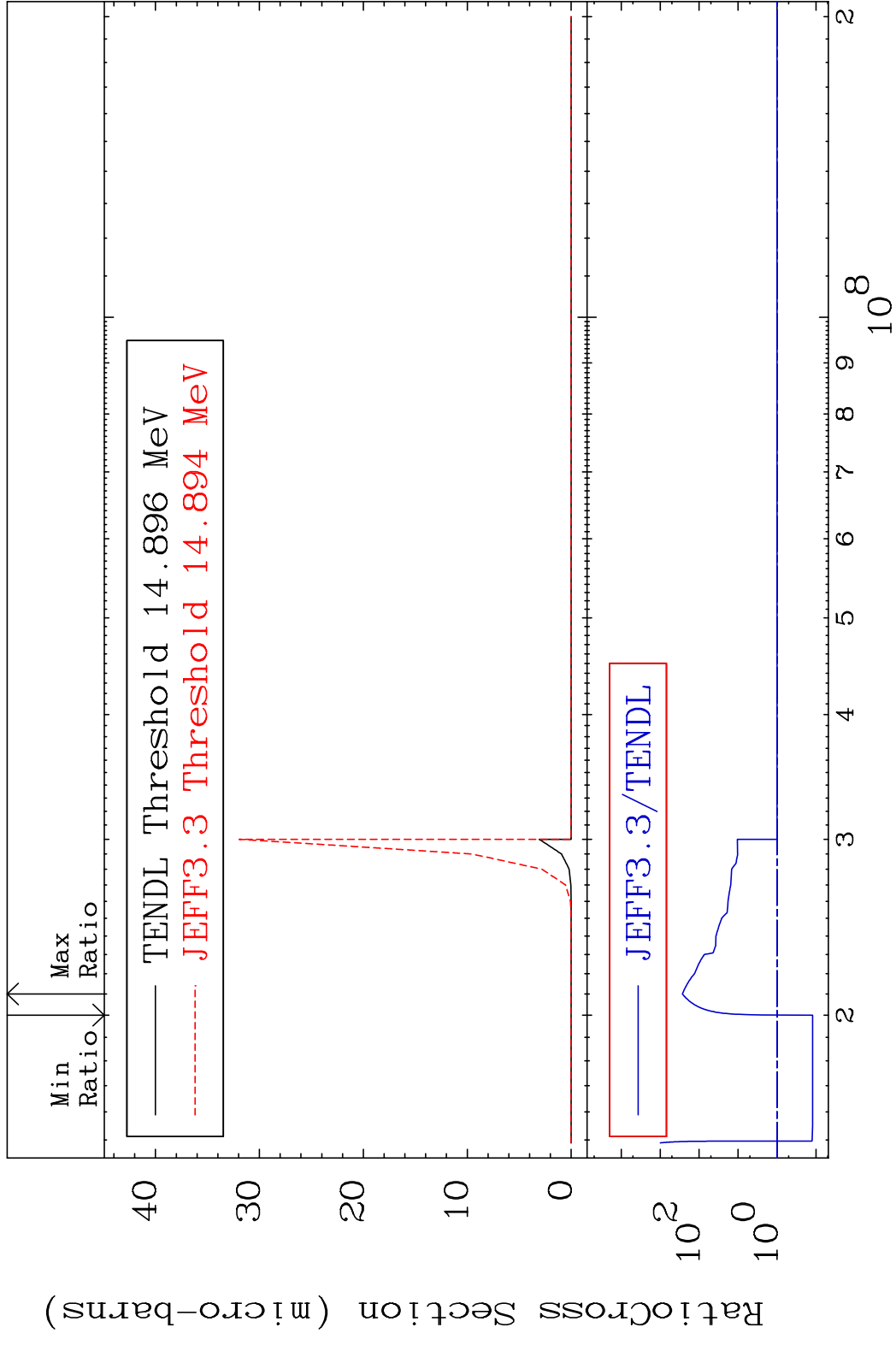
MAT 3928 (n,3n) p 39-Y -90
 Cross Section 0.000 To 9999. %



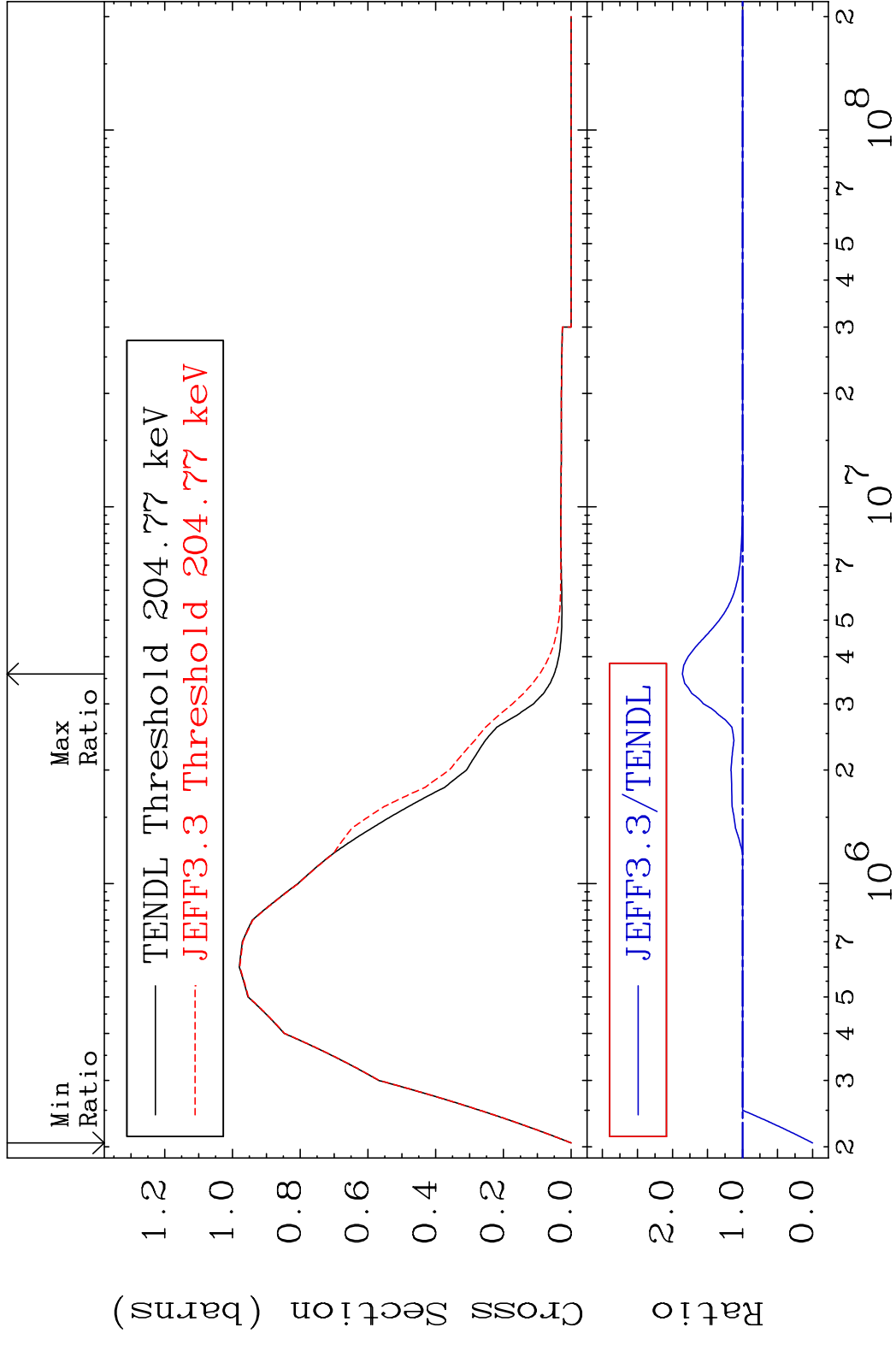
MAT 3928 (n,2n) p 39-Y -90
 Cross Section -99.93 To 3050. %



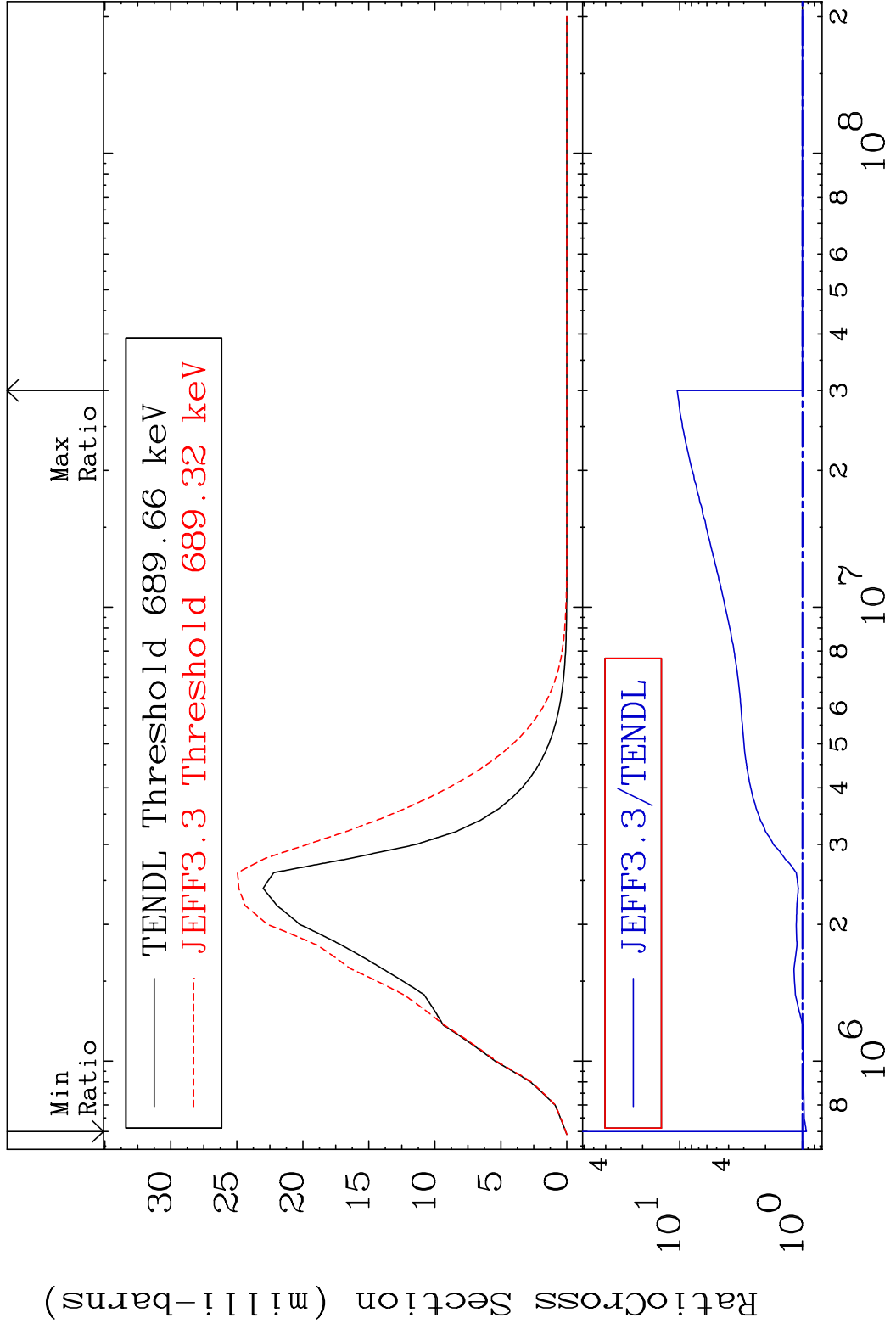
MAT 3928 (n,n') p α 39-Y -90
 Cross Section -87.79 To 9999. %



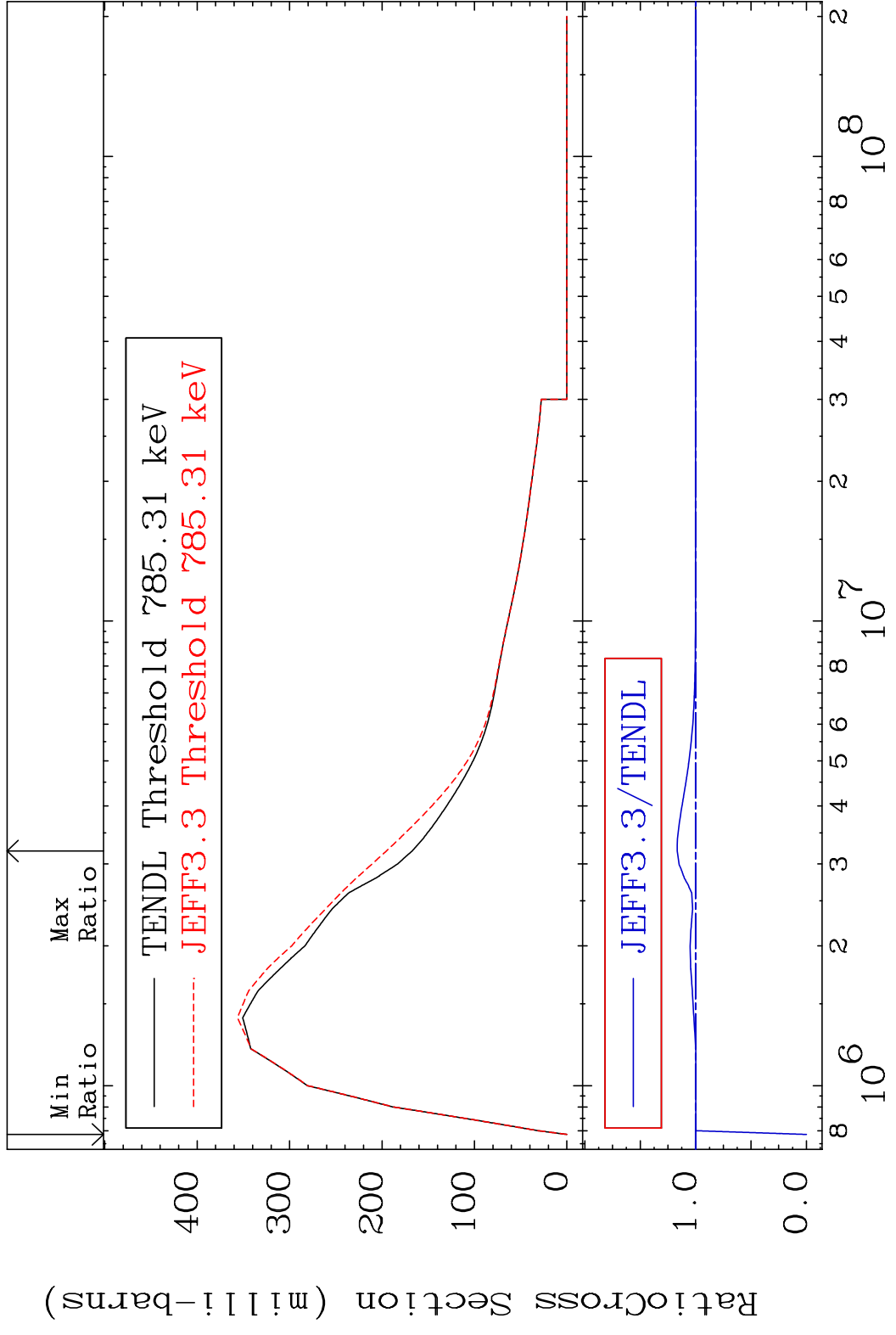
MAT 3928 MT= 51 (n, n') Level 39-Y -90
 Cross Section -100.0 To 85.89 %



MAT 3928 MT= 52 (n, n') Level 39-Y -90
 Cross Section -7.178 To 947.0 %

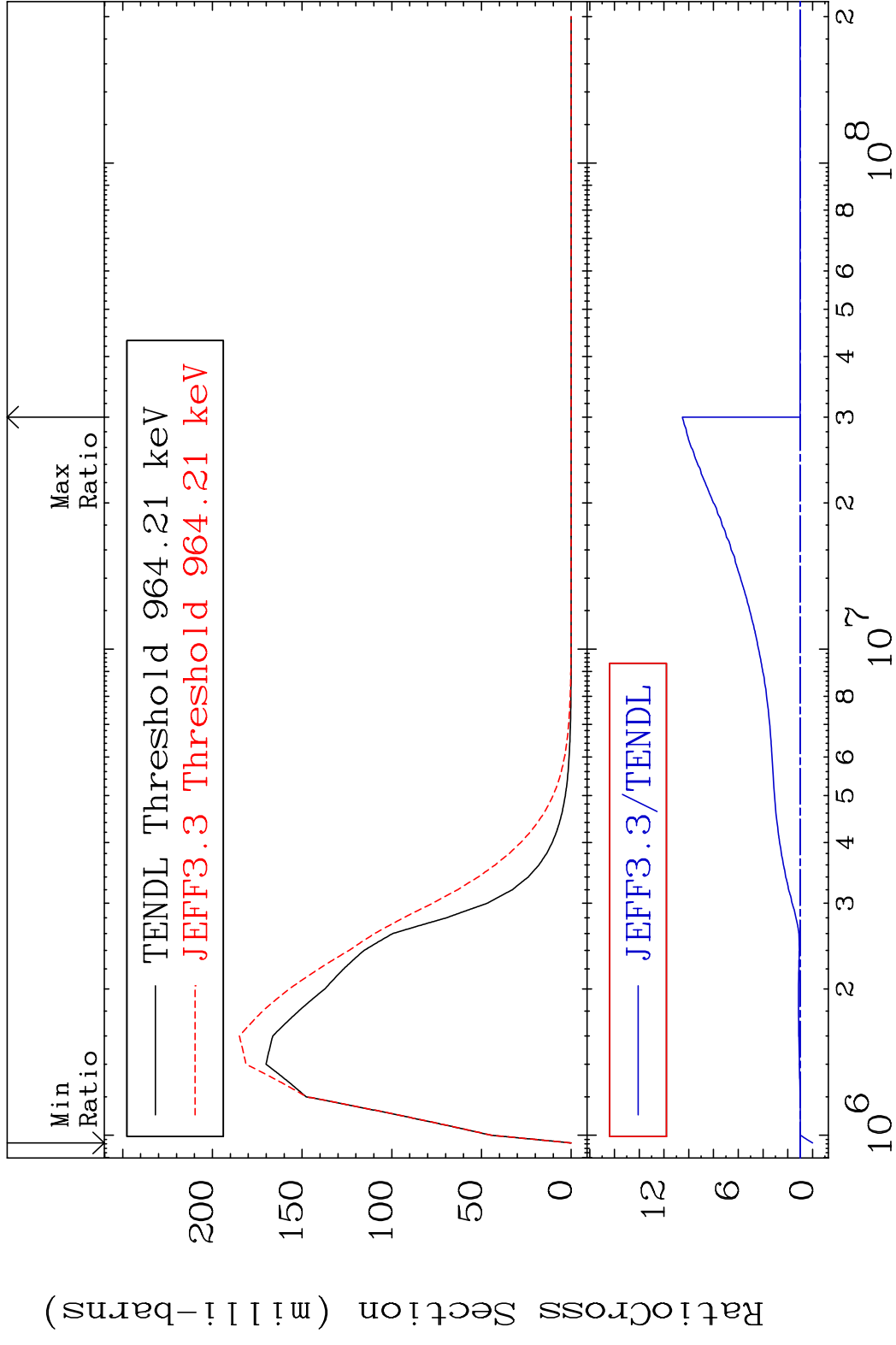


MAT 3928 MT= 53 (n, n') Level 39-Y -90
 Cross Section -100.0 To 16.66 %



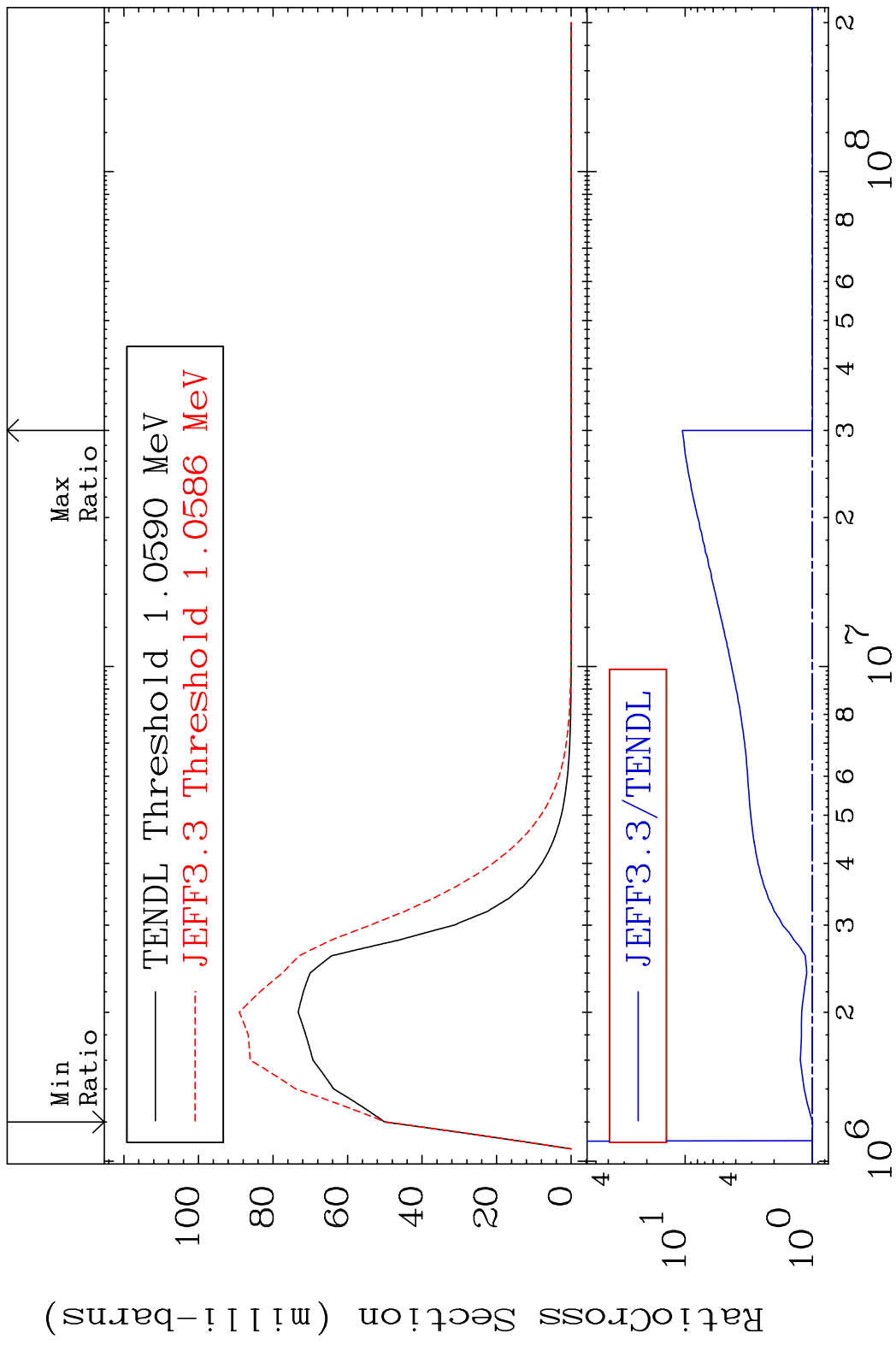
20 8 10⁶ 2 3 4 5 6 8 10⁸ 39-Y -90

MAT 3928 MT= 54 (n, n') Level 39-Y -90
 Cross Section -100.0 To 951.7 %

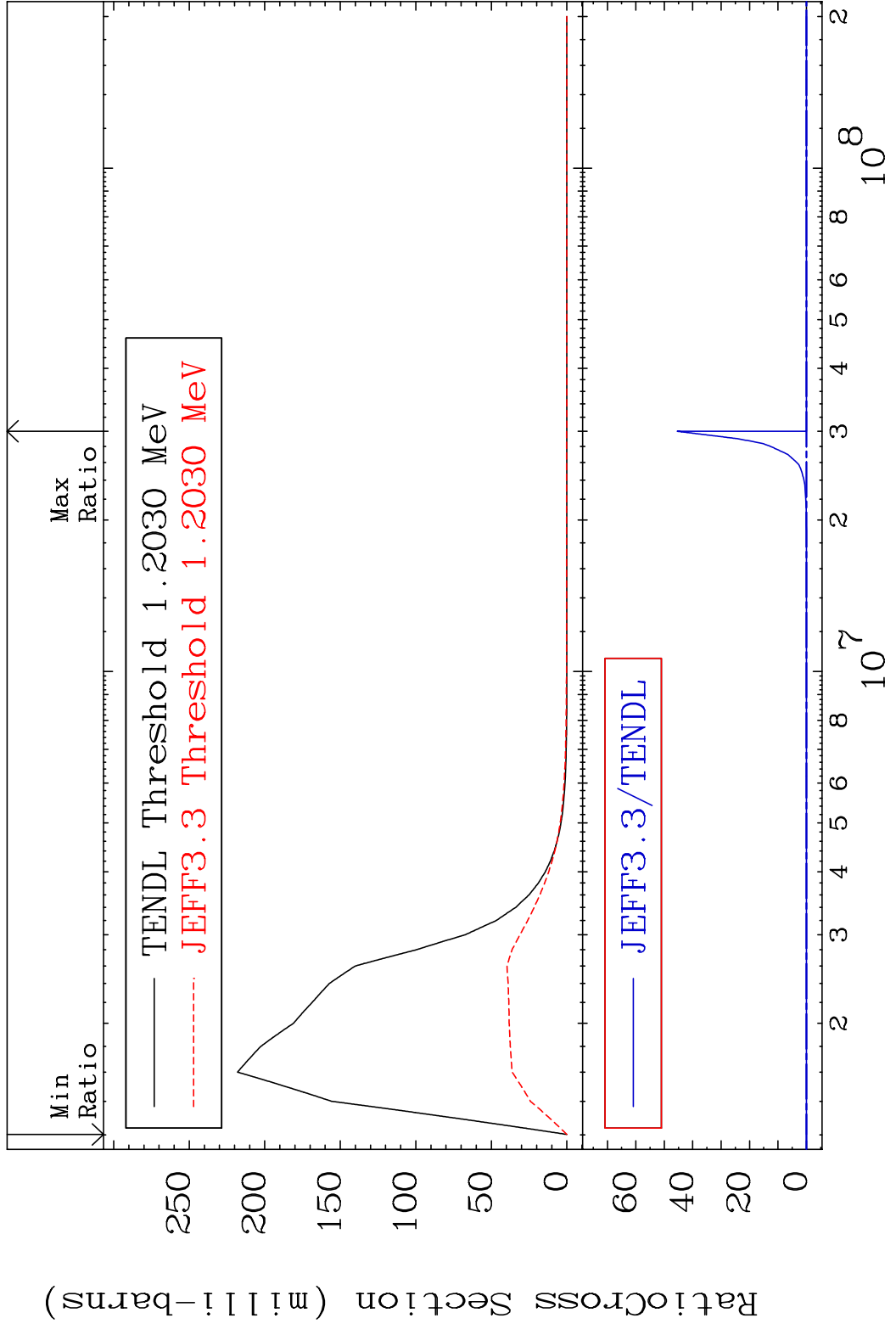


21 Incident Energy (eV) 39-Y -90

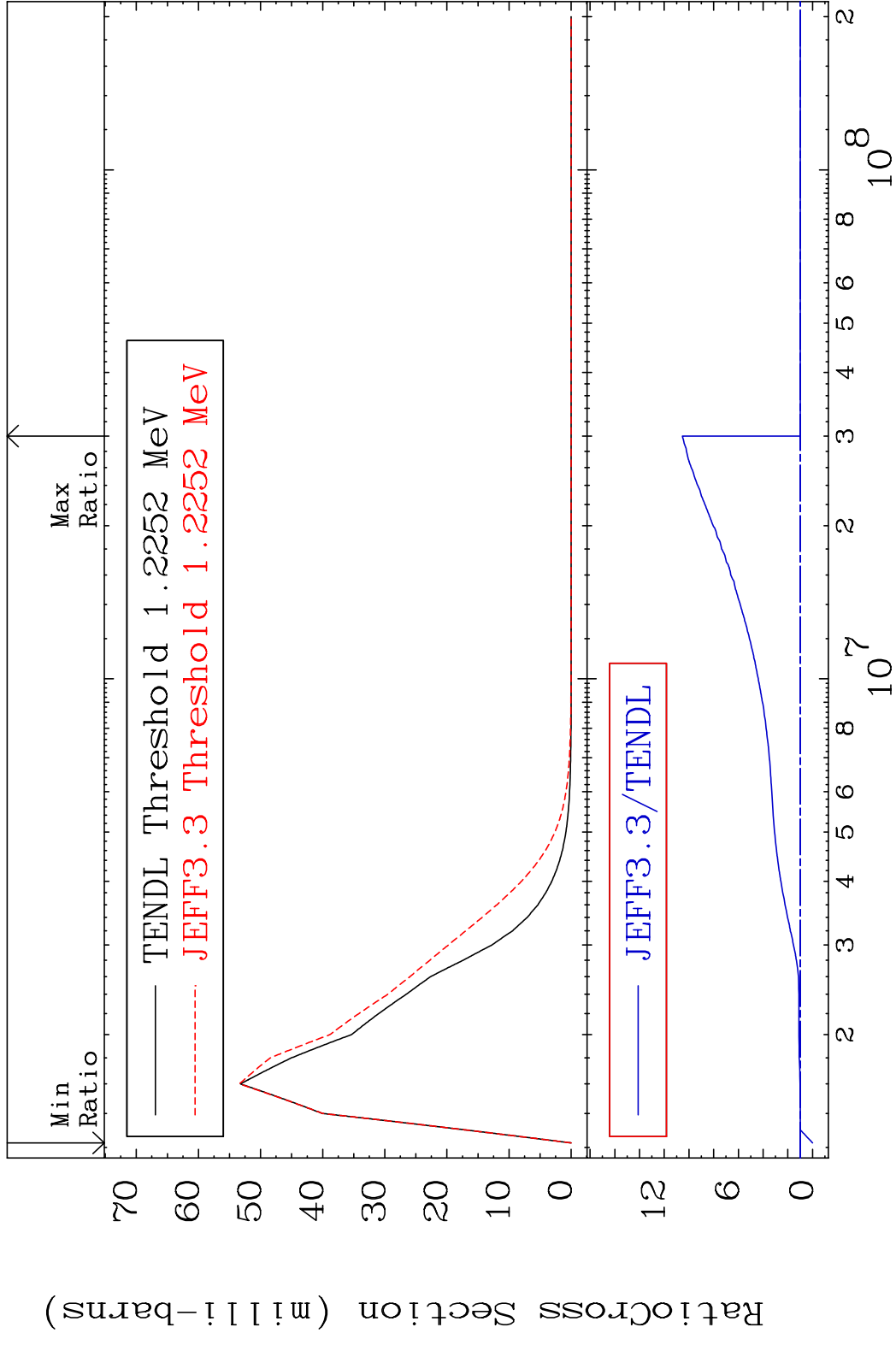
MAT 3928 MT= 55 (n,n') Level 39-Y -90
 Cross Section -0.361 To 949.7 %



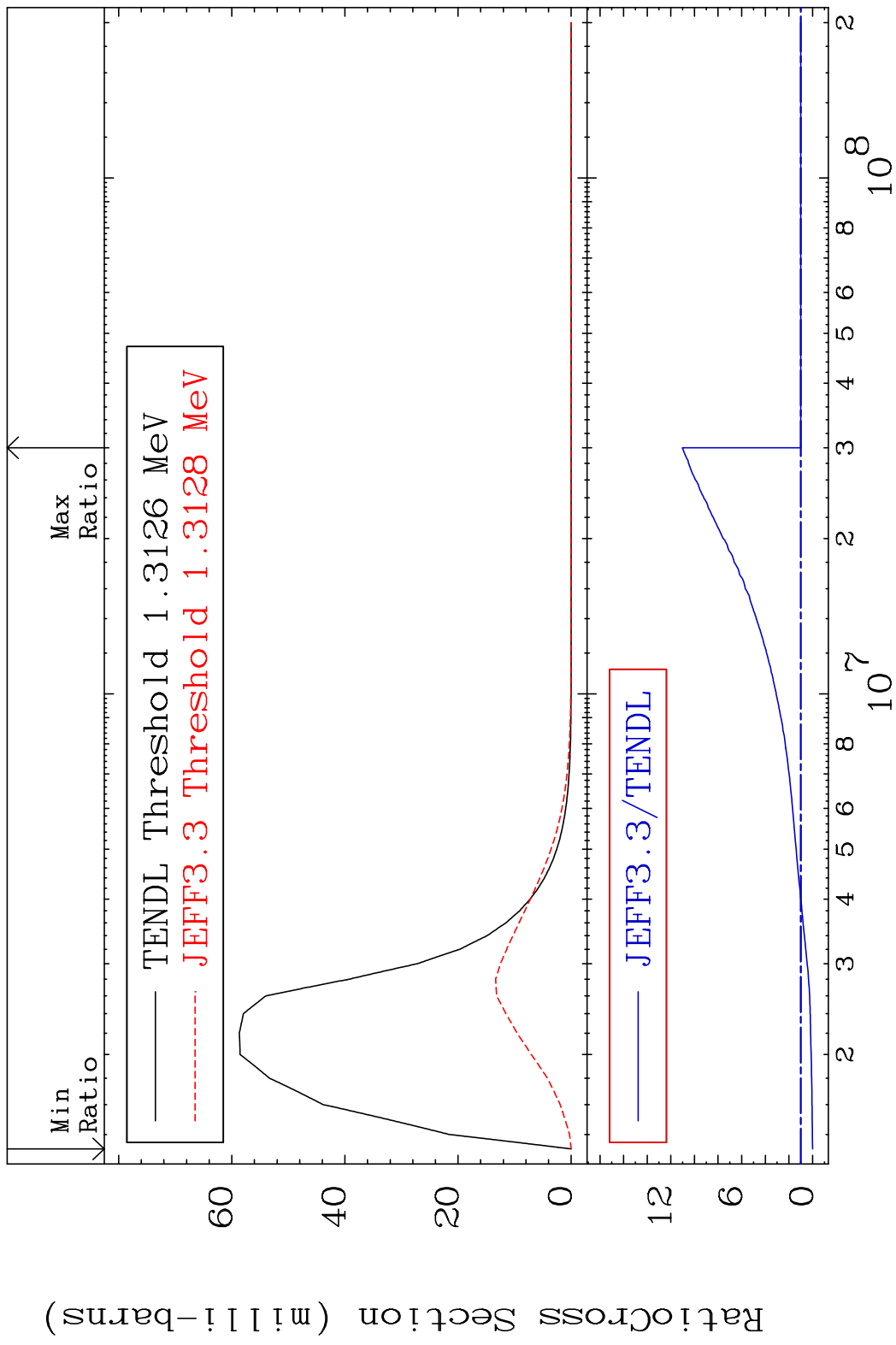
MAT 3928 MT= 56 (n,n') Level 39-Y -90
 Cross Section -100.0 To 9999. %



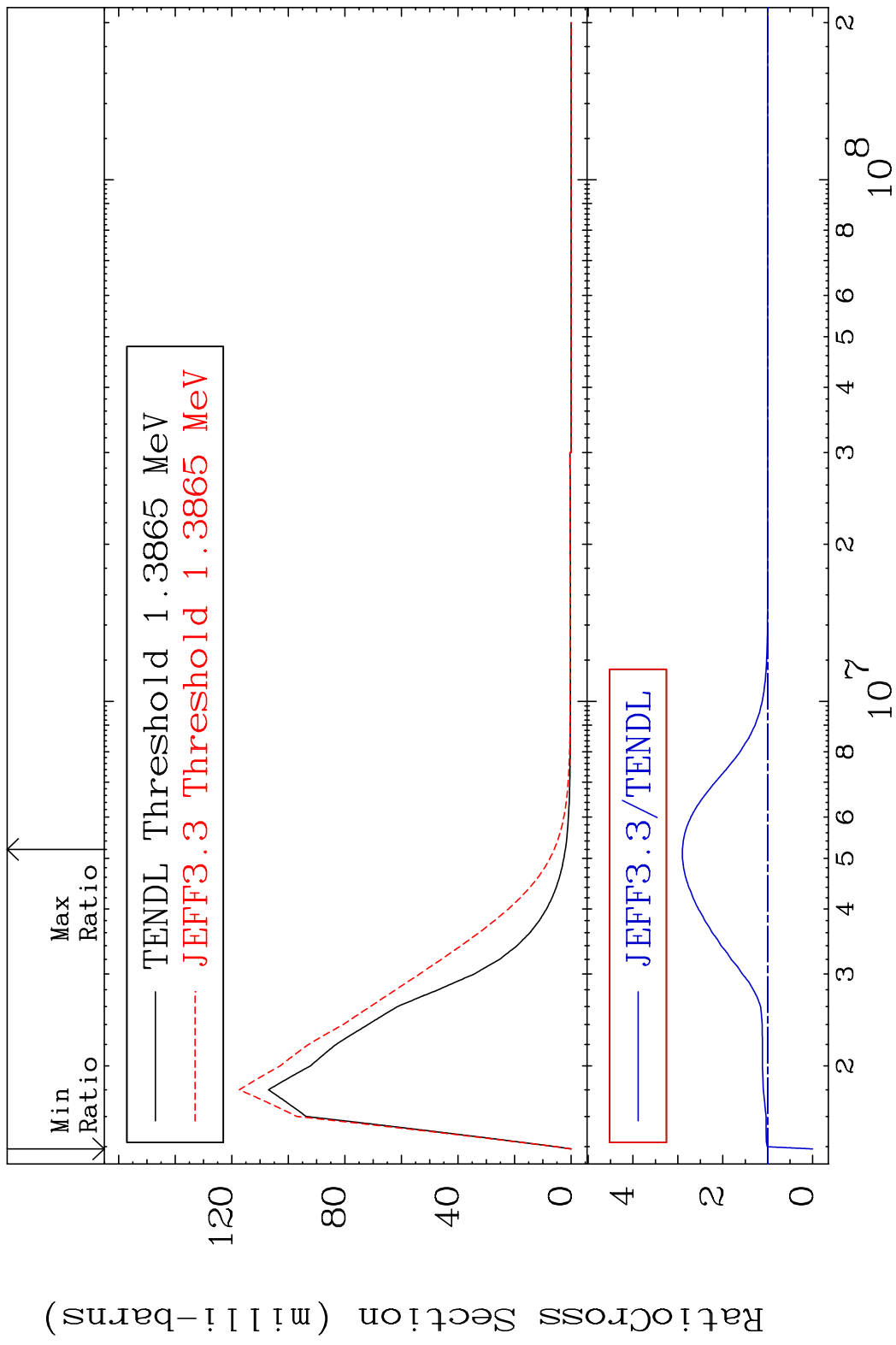
MAT 3928 MT= 57 (n, n') Level 39-Y -90
 Cross Section -100.0 To 953.3 %



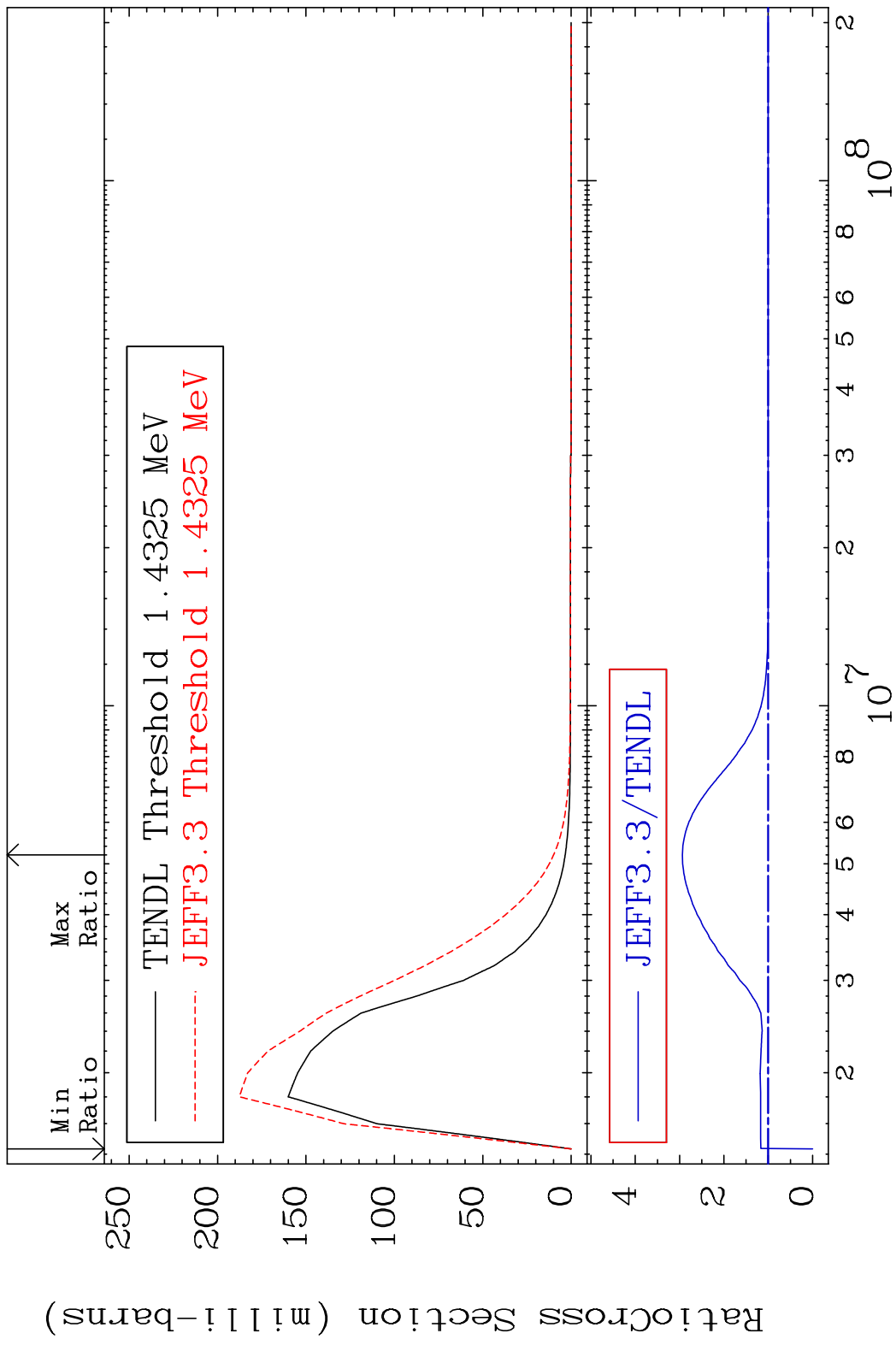
MAT 3928 MT= 58 (n, n') Level 39-Y -90
 Cross Section -100.0 To 1002. %



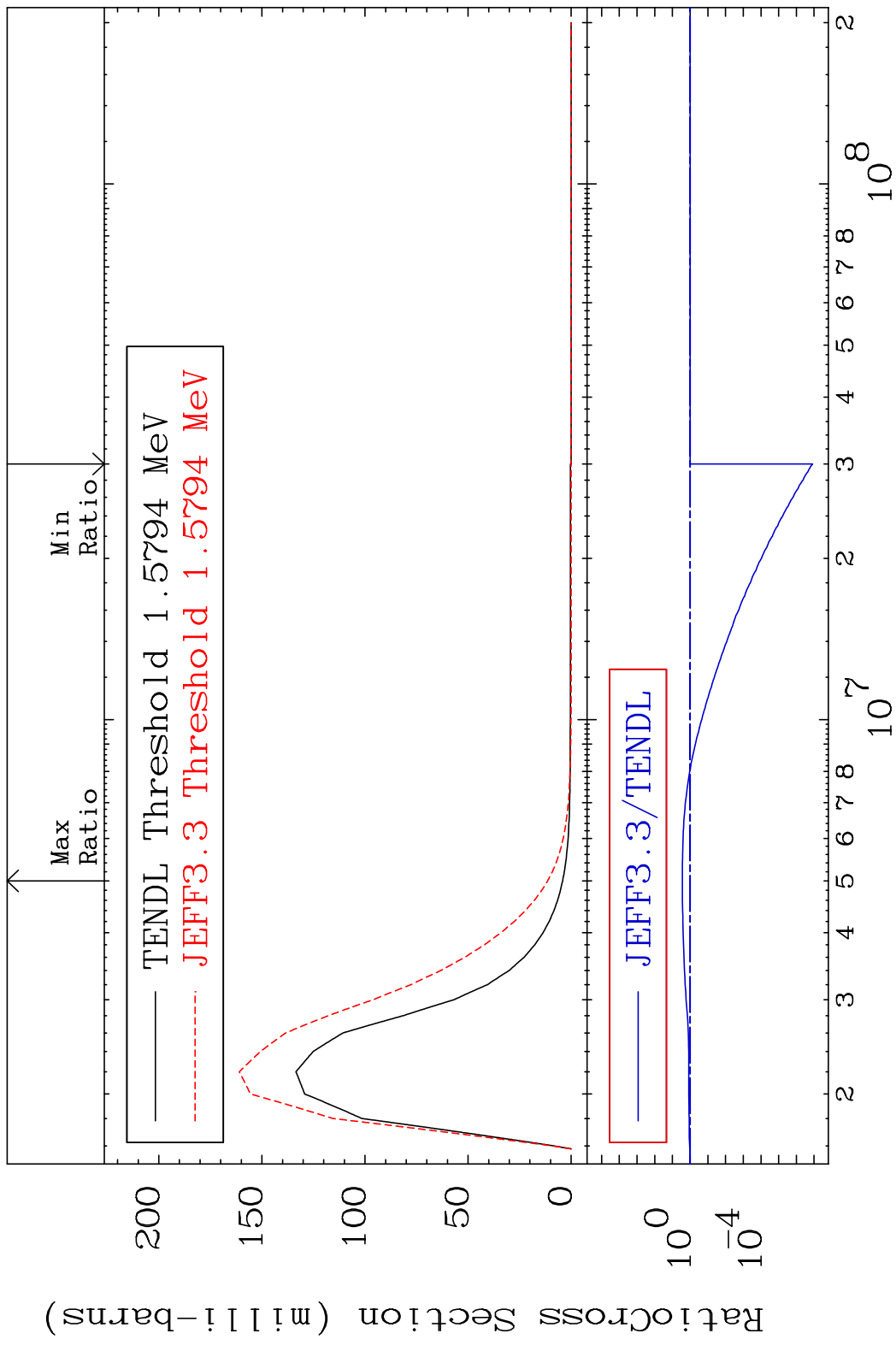
MAT 3928 MT= 59 (n, n') Level 39-Y -90
 Cross Section -100.0 To 190.1 %



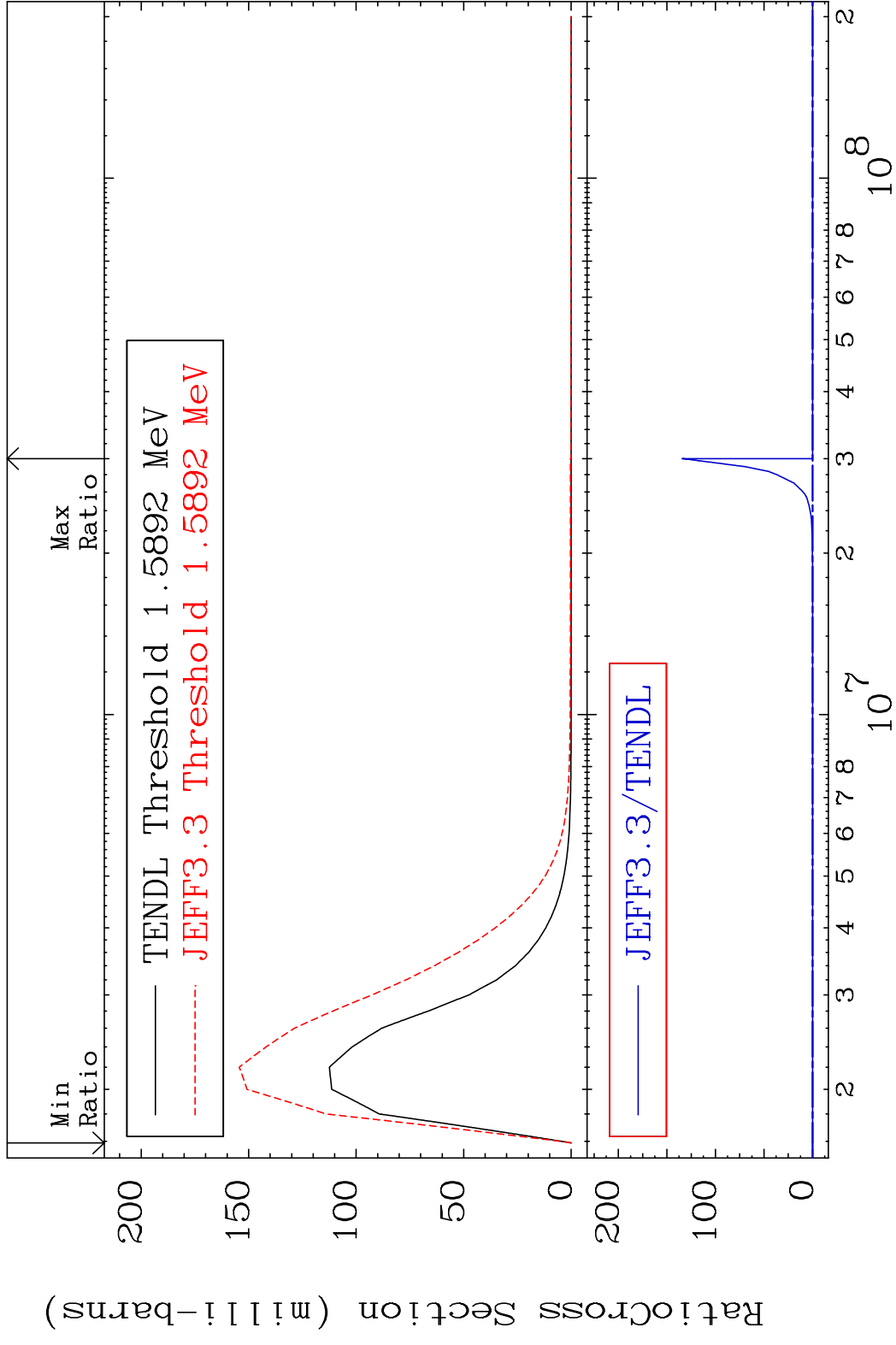
MAT 3928 MT= 60 (n,n') Level 39-Y -90
 Cross Section -100.0 To 193.7 %



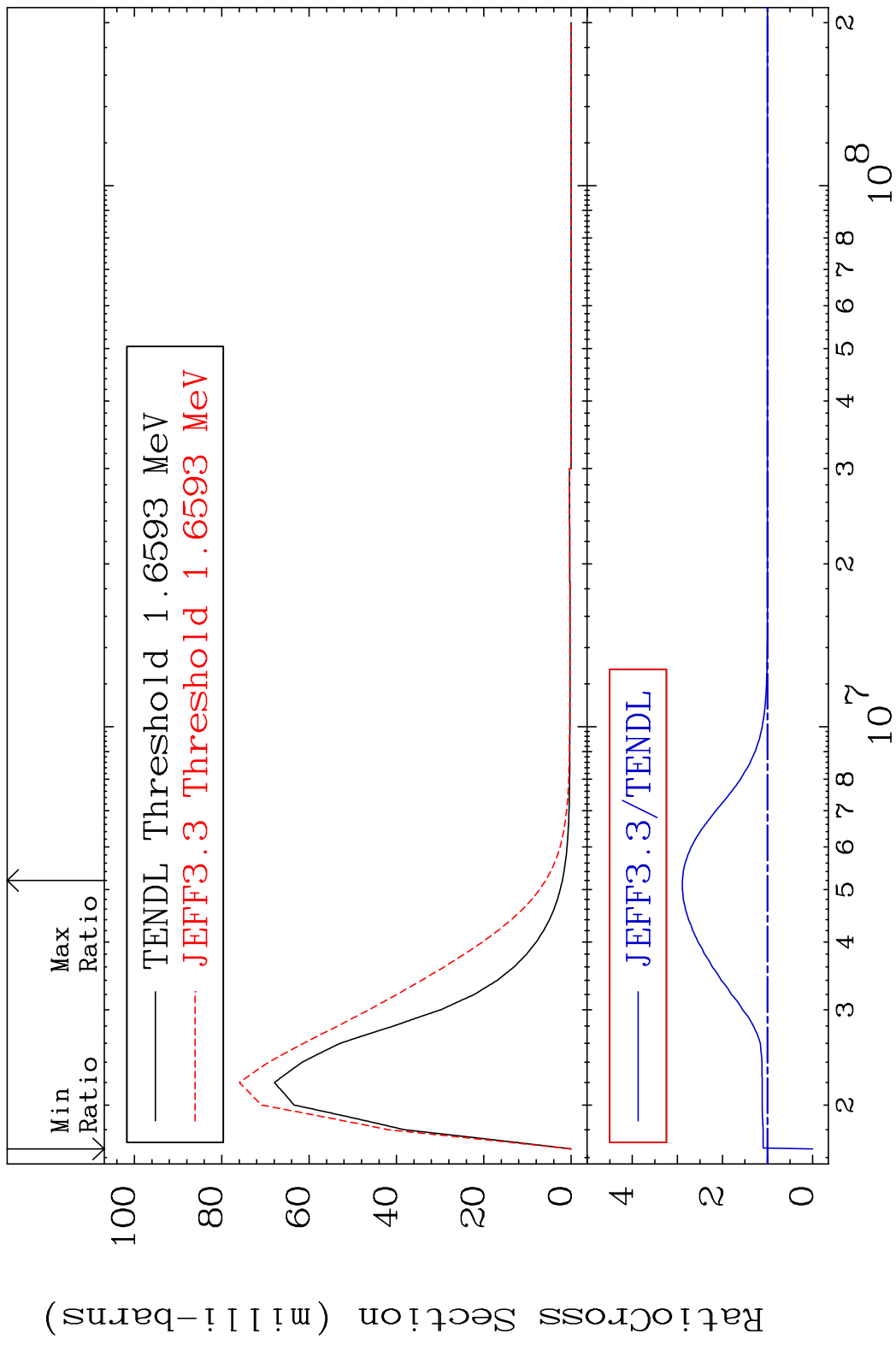
MAT 3928 MT= 61 (n, n') Level 39-Y -90
 Cross Section -100.0 To 175.6 %



MAT 3928 MT= 62 (n, n') Level 39-Y -90
 Cross Section -100.0 To 9999. %

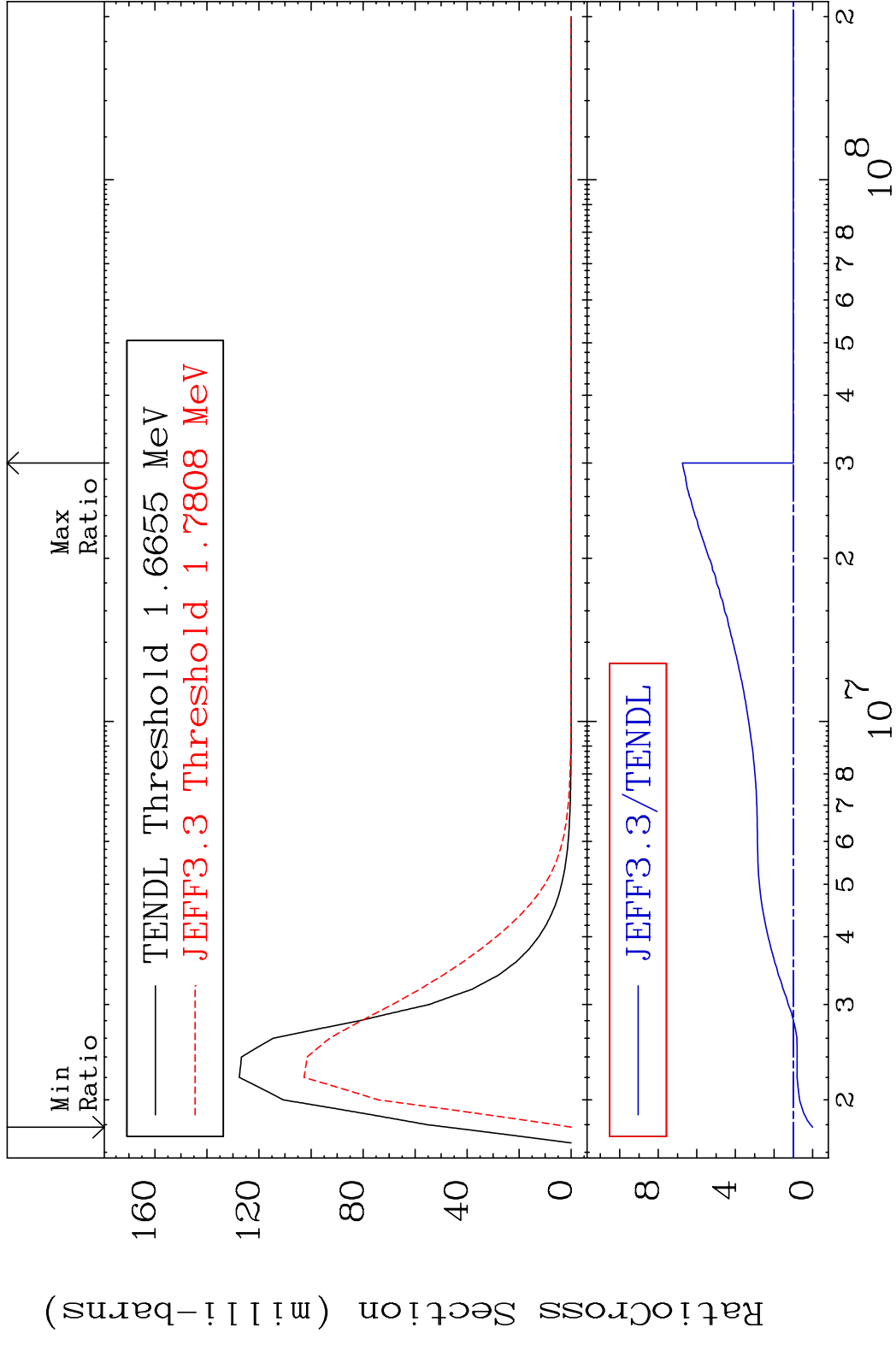


MAT 3928 MT= 63 (n, n') Level 39-Y -90
 Cross Section -100.0 To 188.9 %

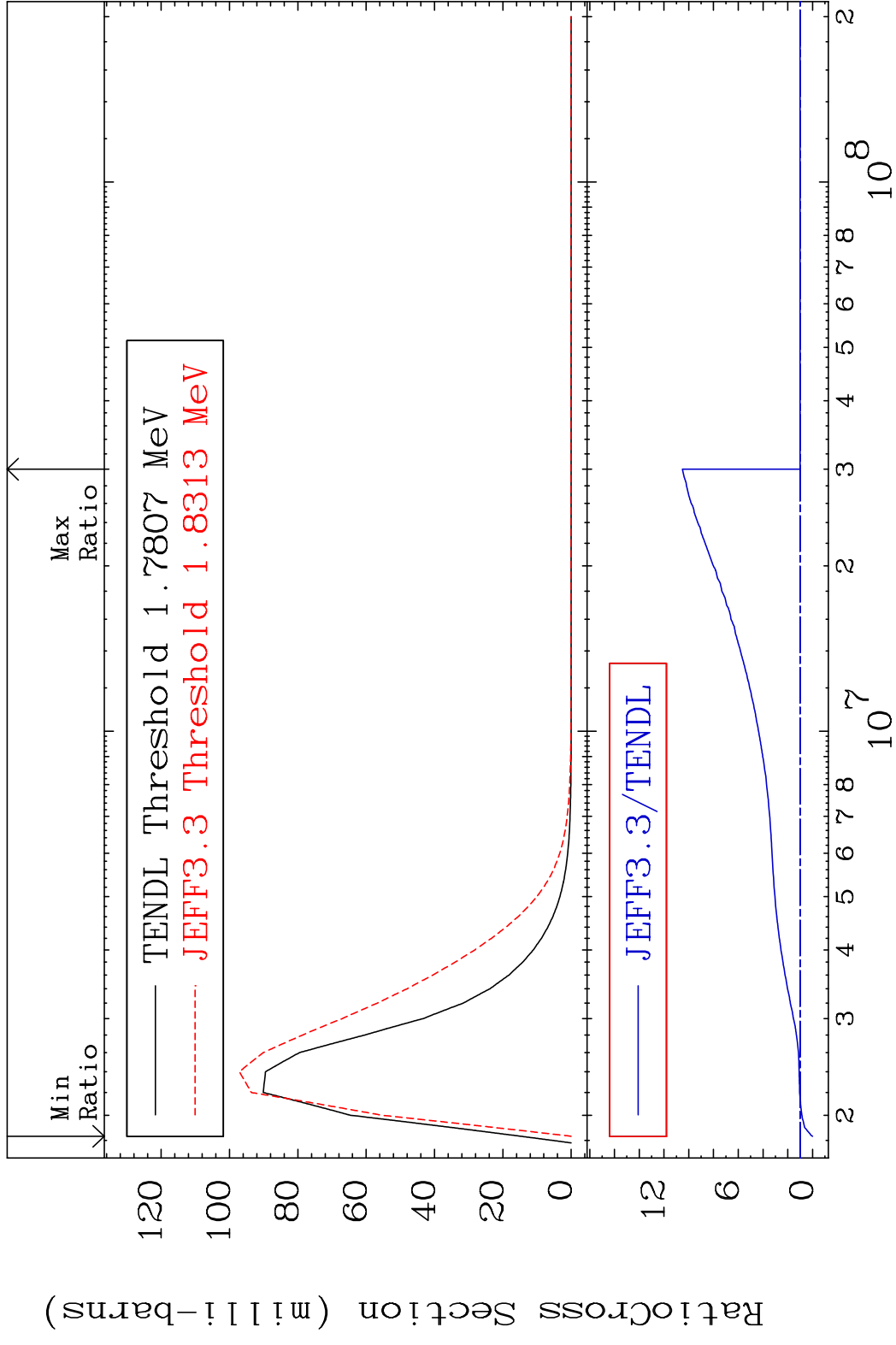


30 Incident Energy (eV) 39-Y -90

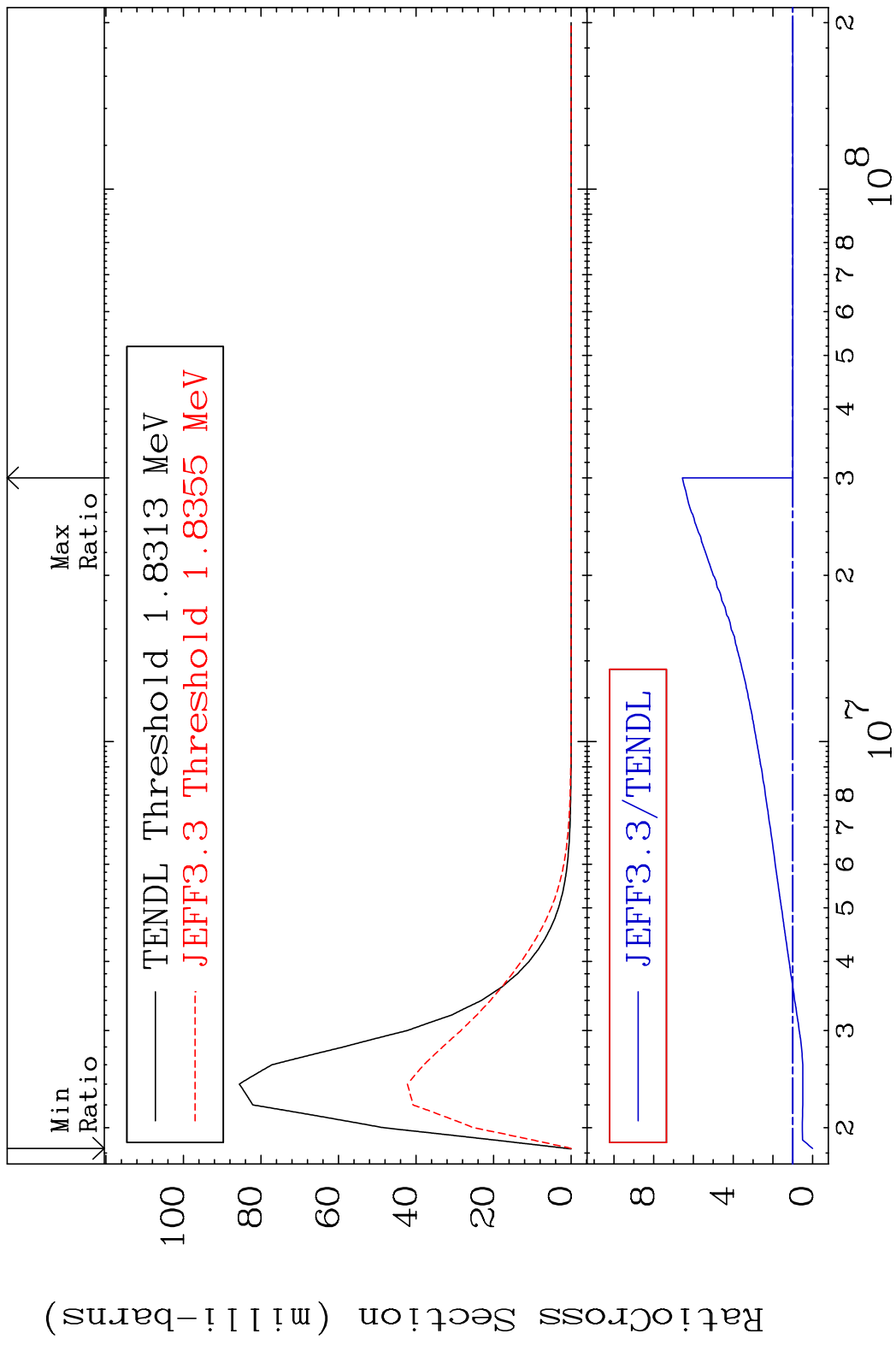
MAT 3928 MT= 64 (n, n') Level 39-Y -90
 Cross Section -100.0 To 575.0 %



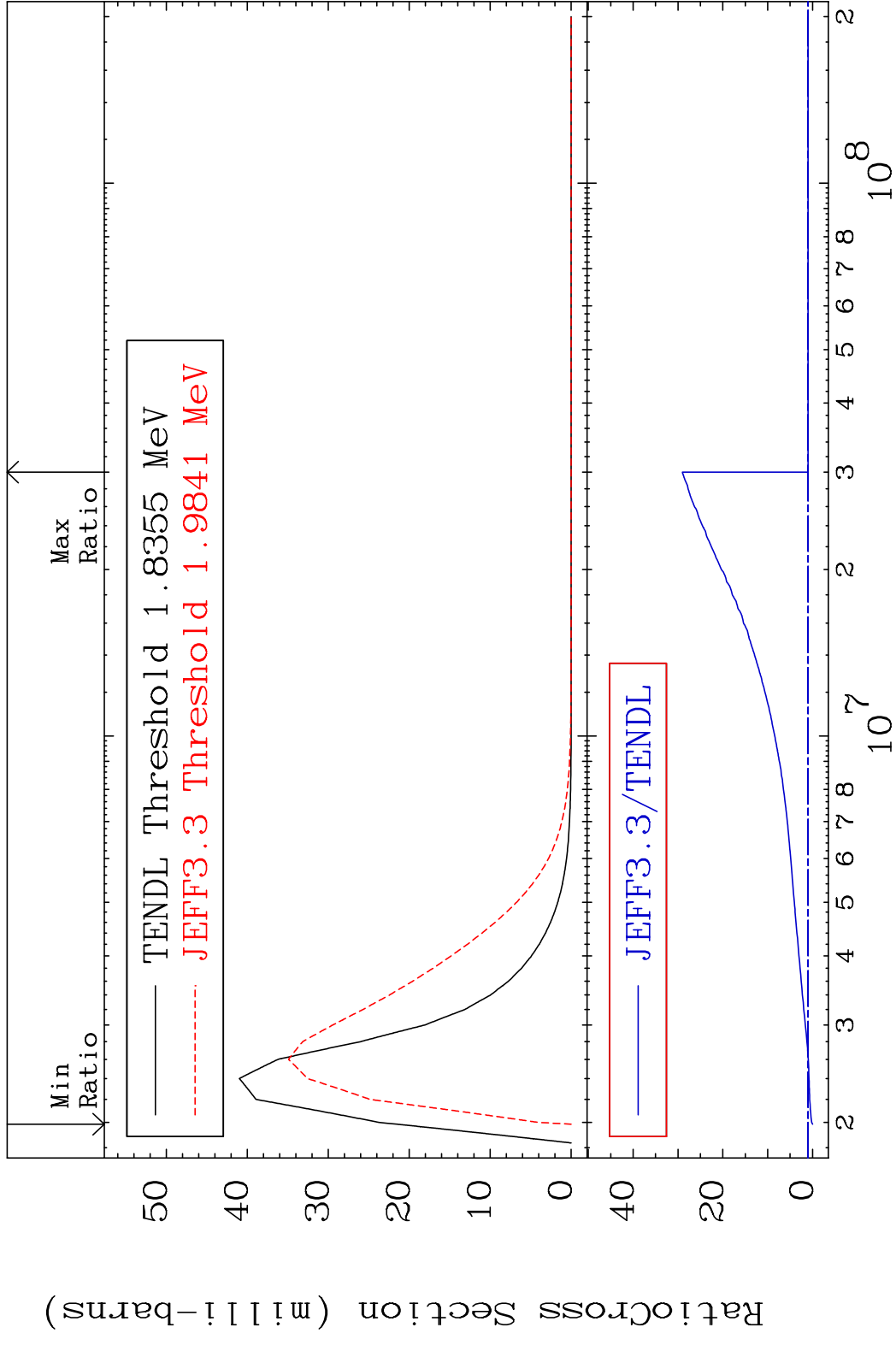
MAT 3928 MT= 65 (n, n') Level 39-Y -90
 Cross Section -100.0 To 951.6 %



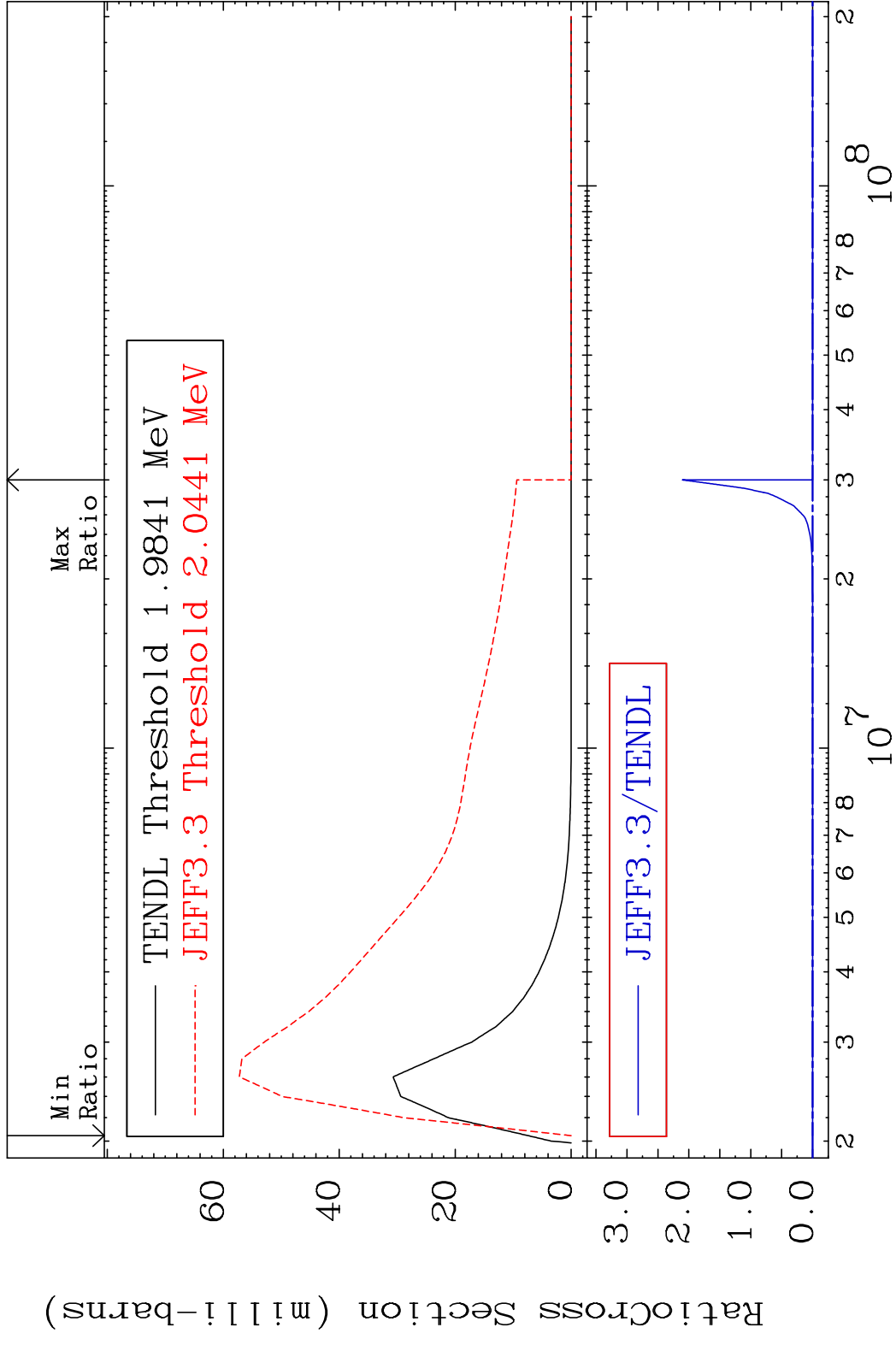
MAT 3928 MT= 66 (n, n') Level 39-Y -90
 Cross Section -100.0 To 555.8 %



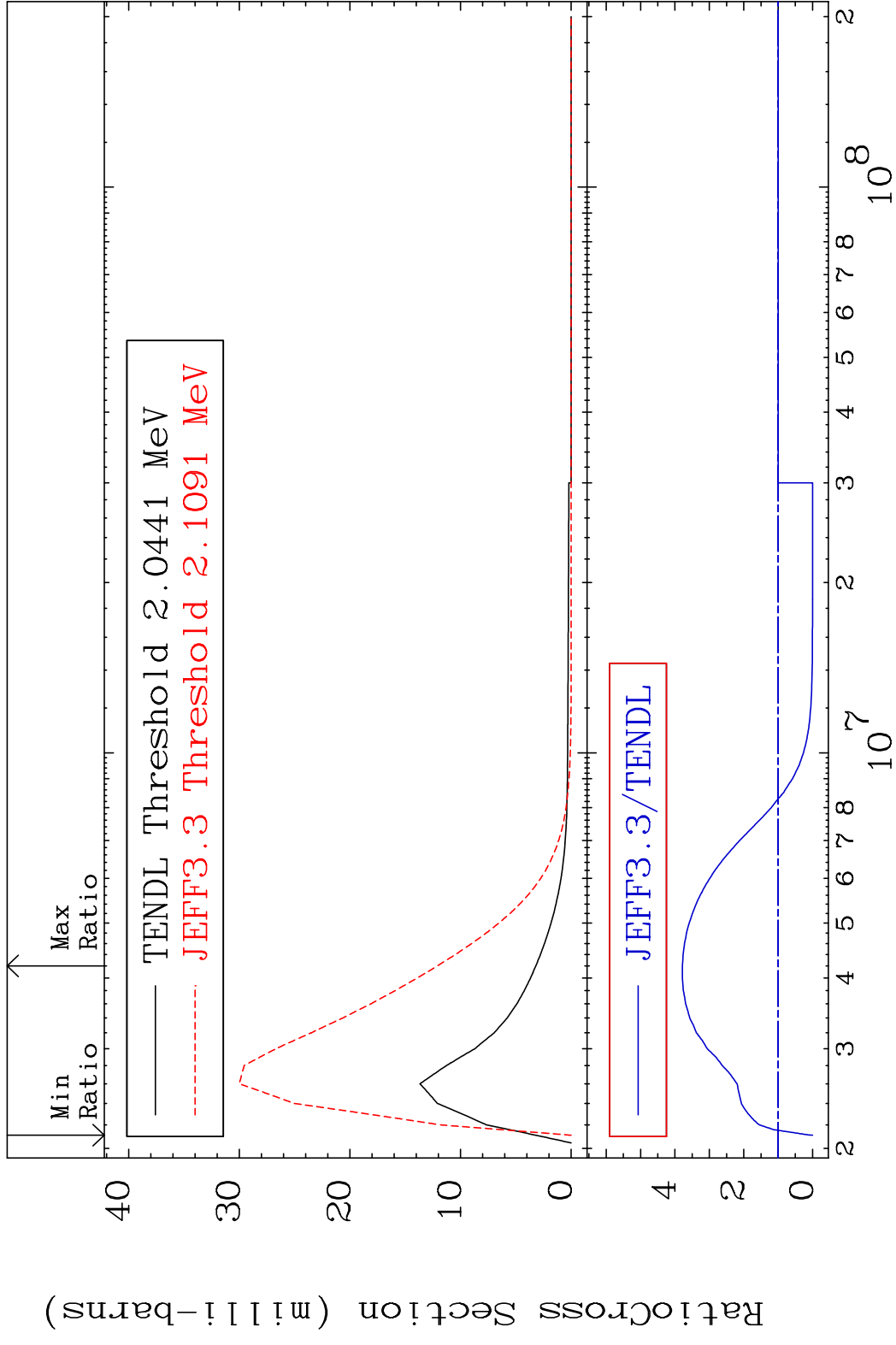
MAT 3928 MT= 67 (n, n') Level 39-Y -90
 Cross Section -100.0 To 2803. %



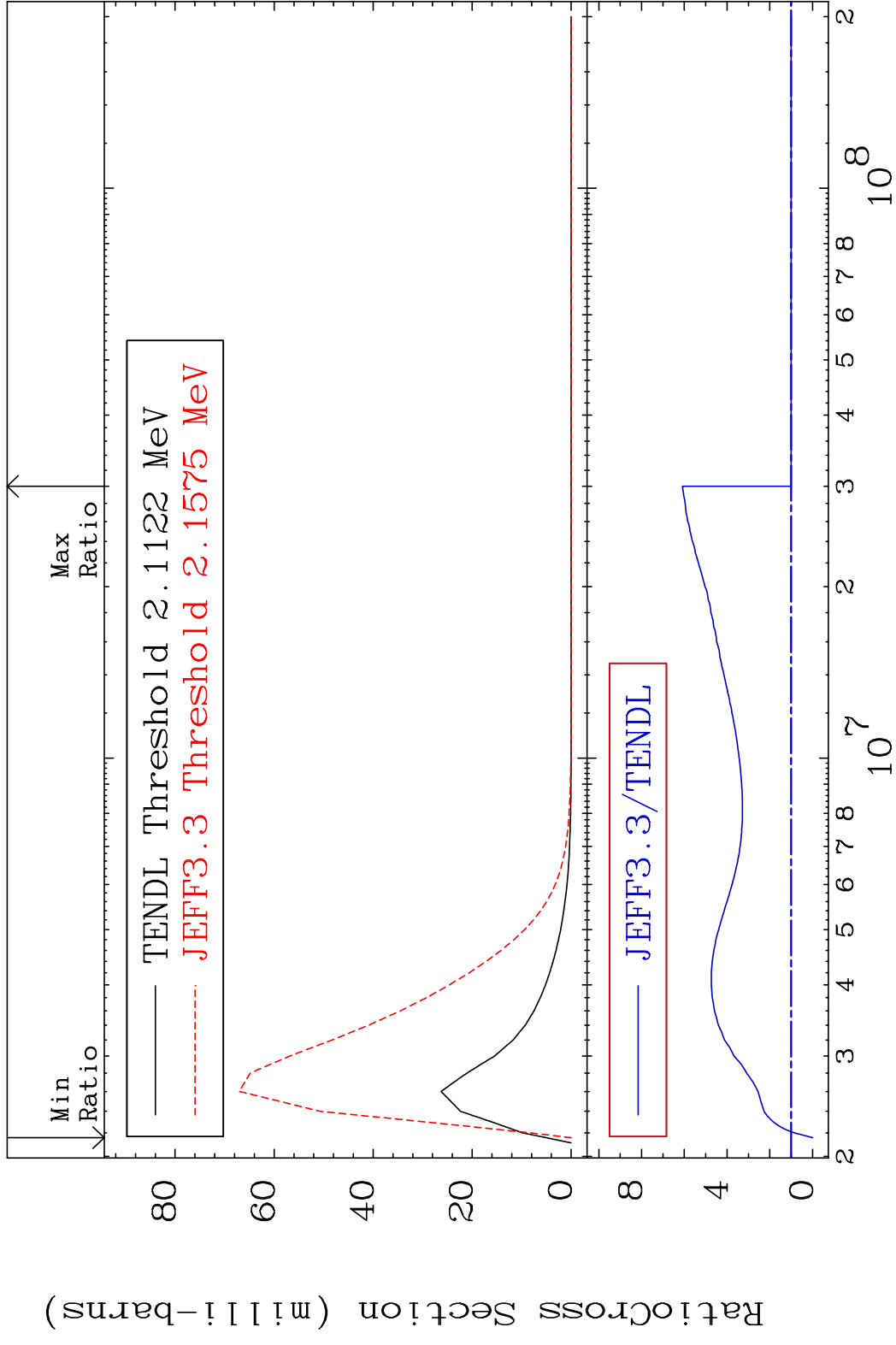
MAT 3928 MT= 68 (n, n') Level 39-Y -90
 Cross Section -100.0 To 9999. %



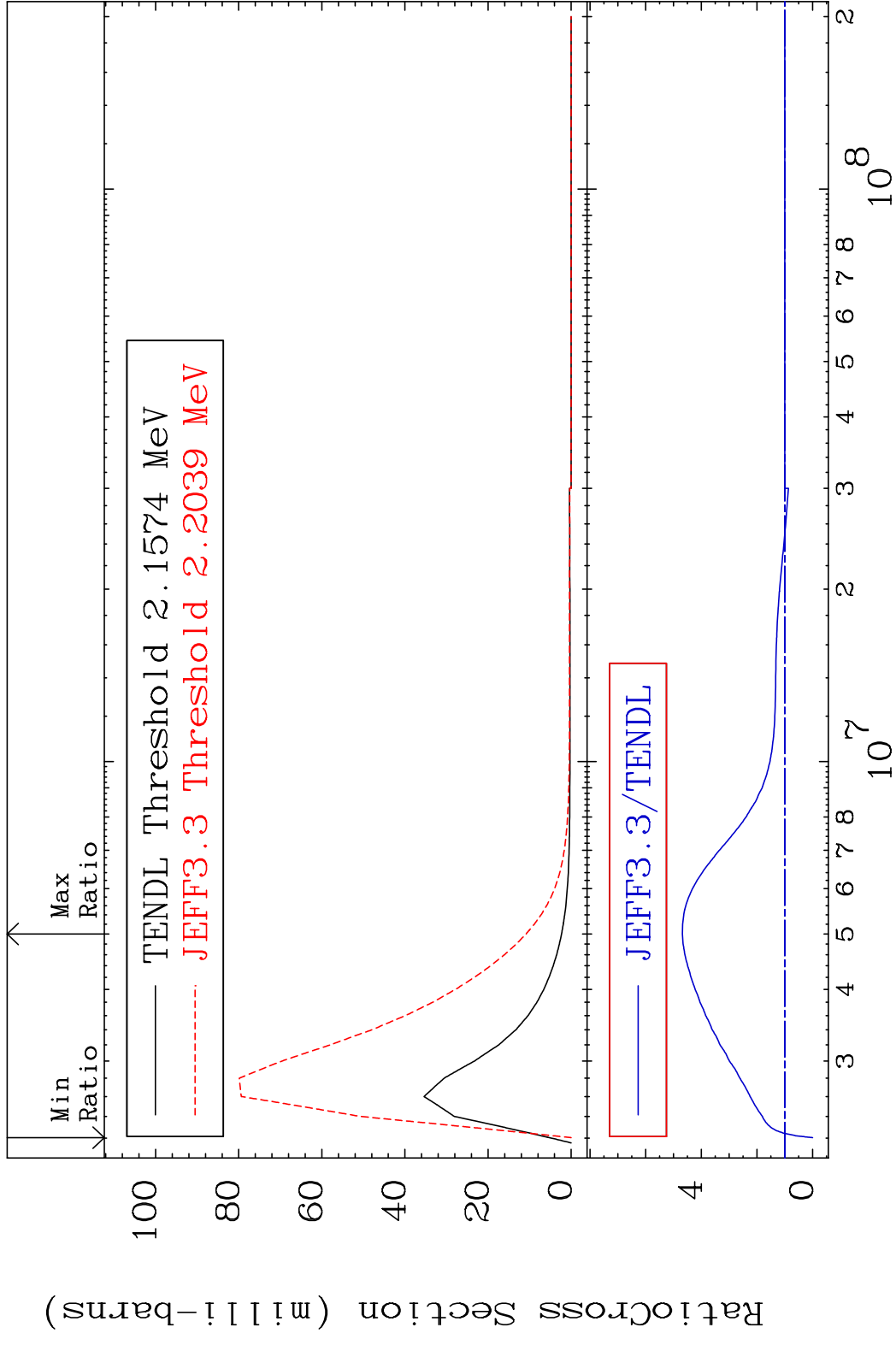
MAT 3928 MT= 69 (n, n') Level 39-Y -90
 Cross Section -100.0 To 278.5 %



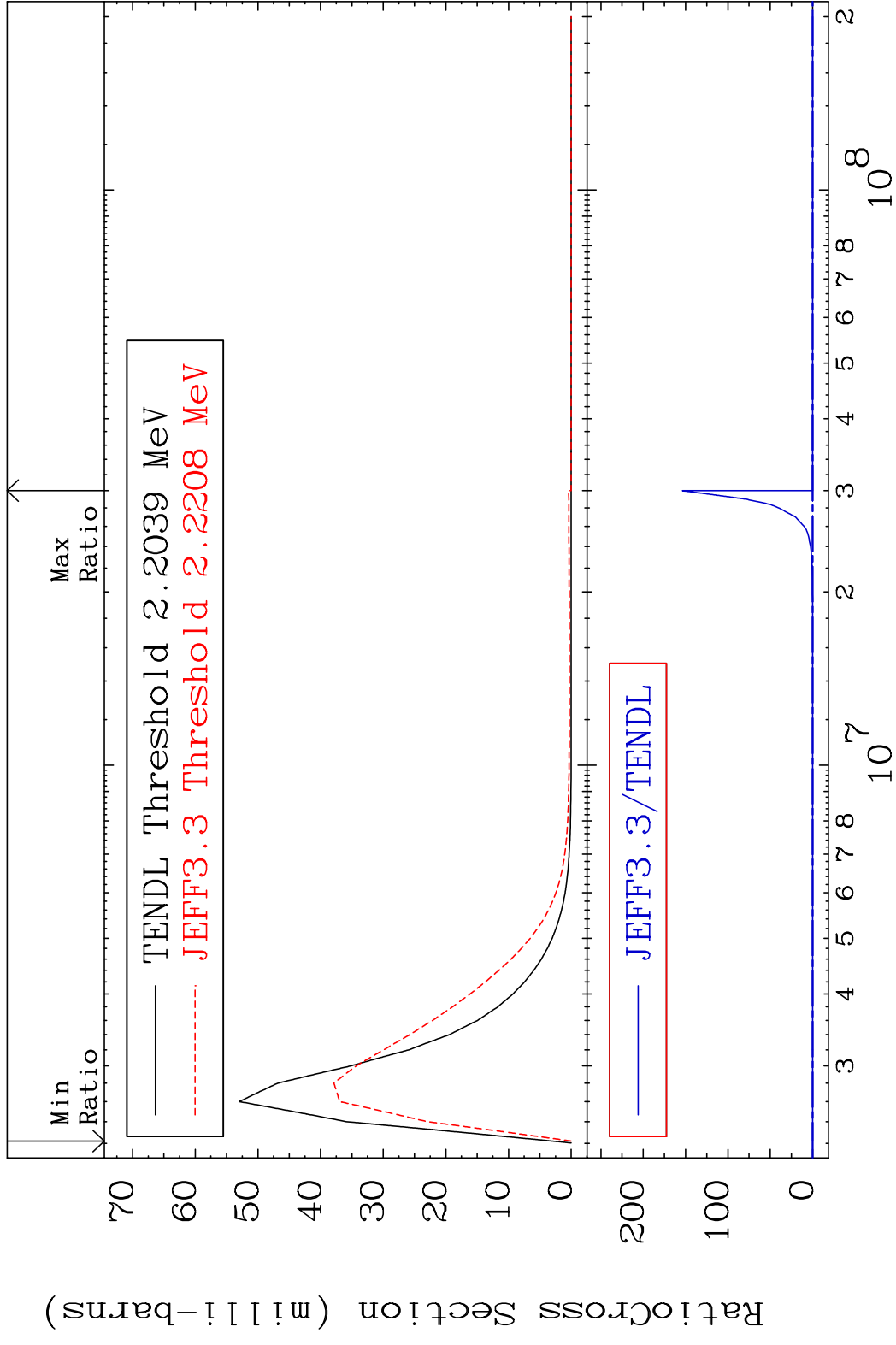
MAT 3928 MT= 70 (n, n') Level 39-Y -90
 Cross Section -100.0 To 509.2 %



MAT 3928 MT= 71 (n, n') Level 39-Y -90
 Cross Section -100.0 To 368.0 %

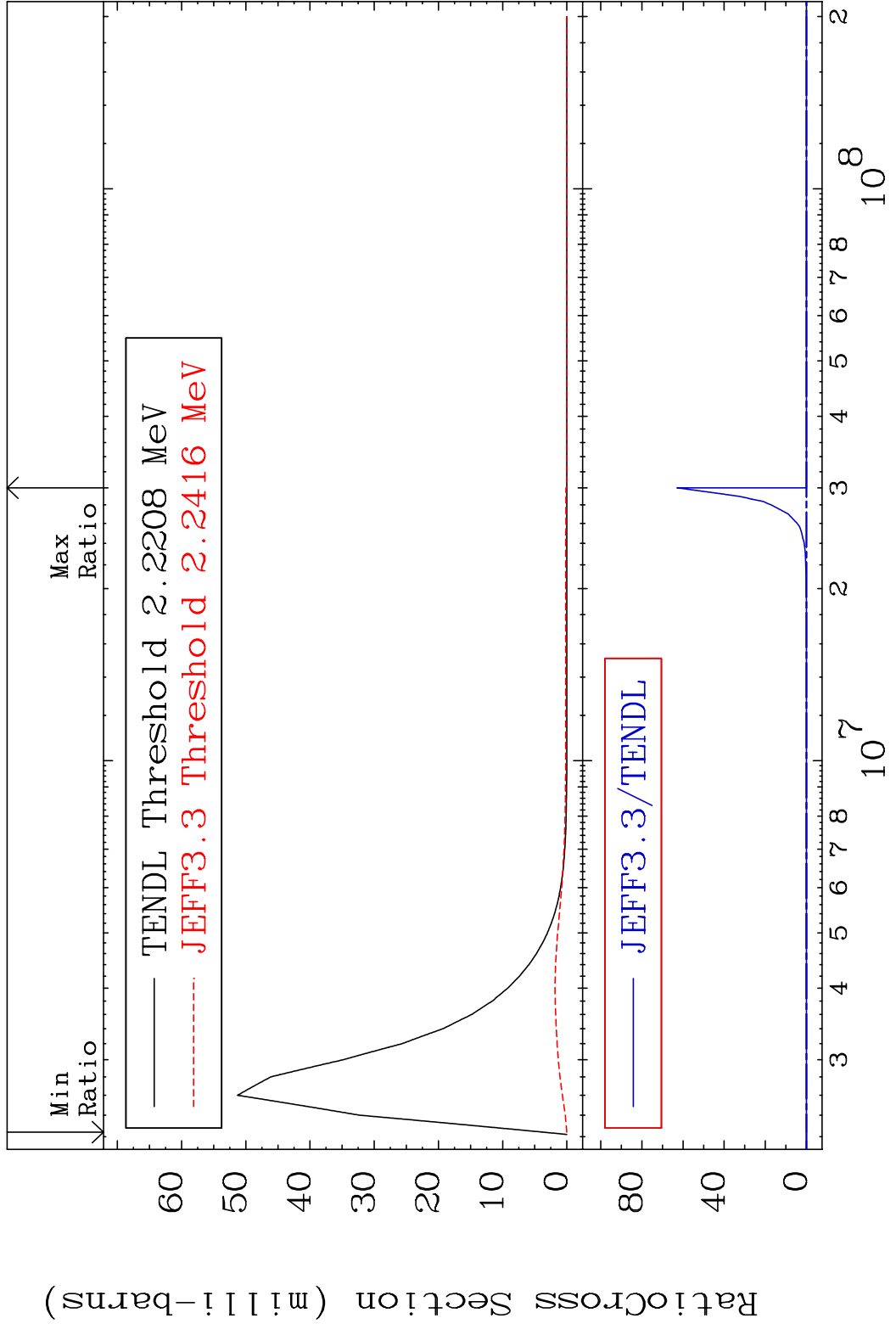


MAT 3928 MT= 72 (n, n') Level 39-Y -90
 Cross Section -100.0 To 9999. %



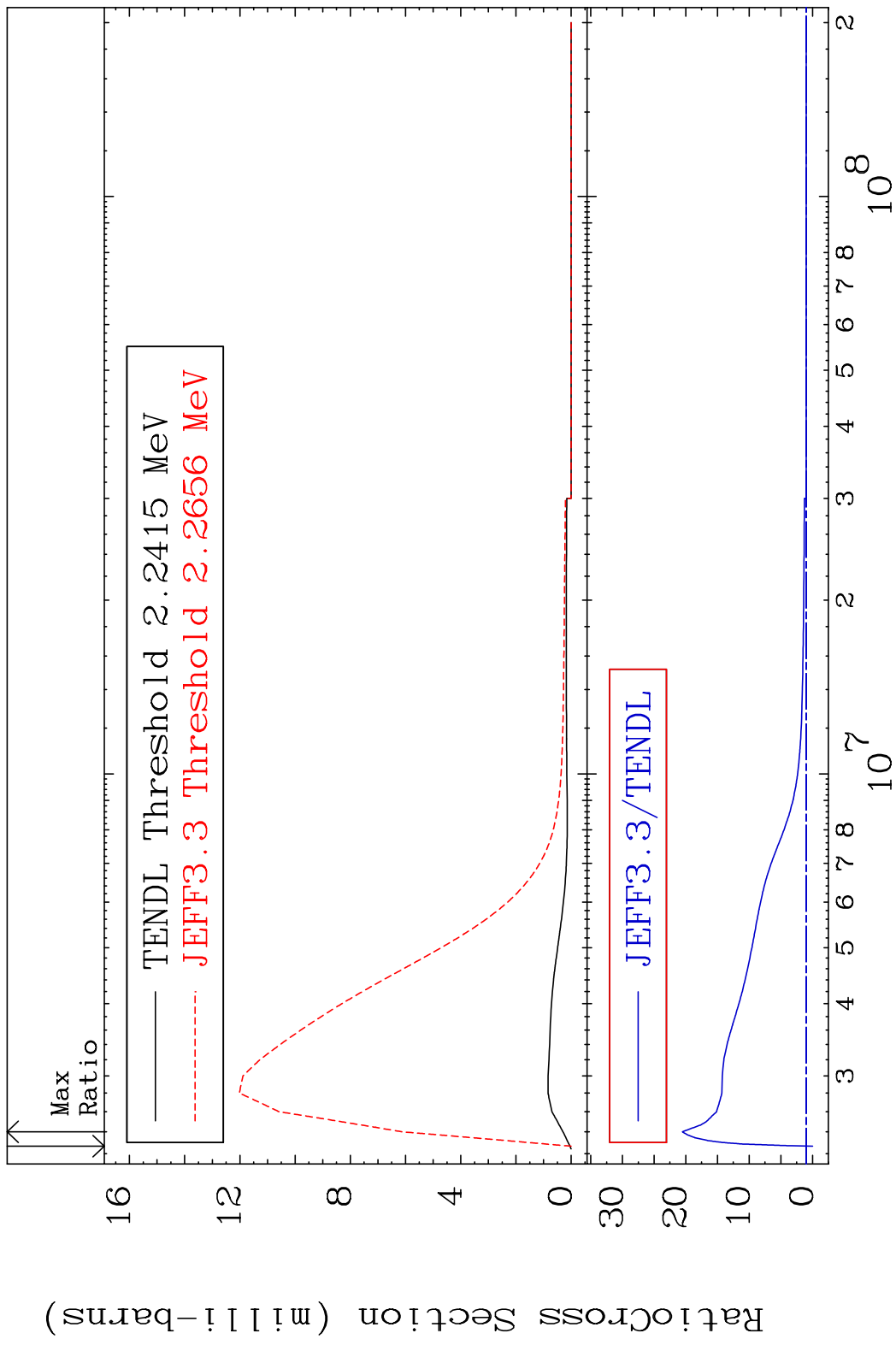
39 39-Y -90

MAT 3928 MT= 73 (n, n') Level 39-Y -90
 Cross Section -100.0 To 9999. %

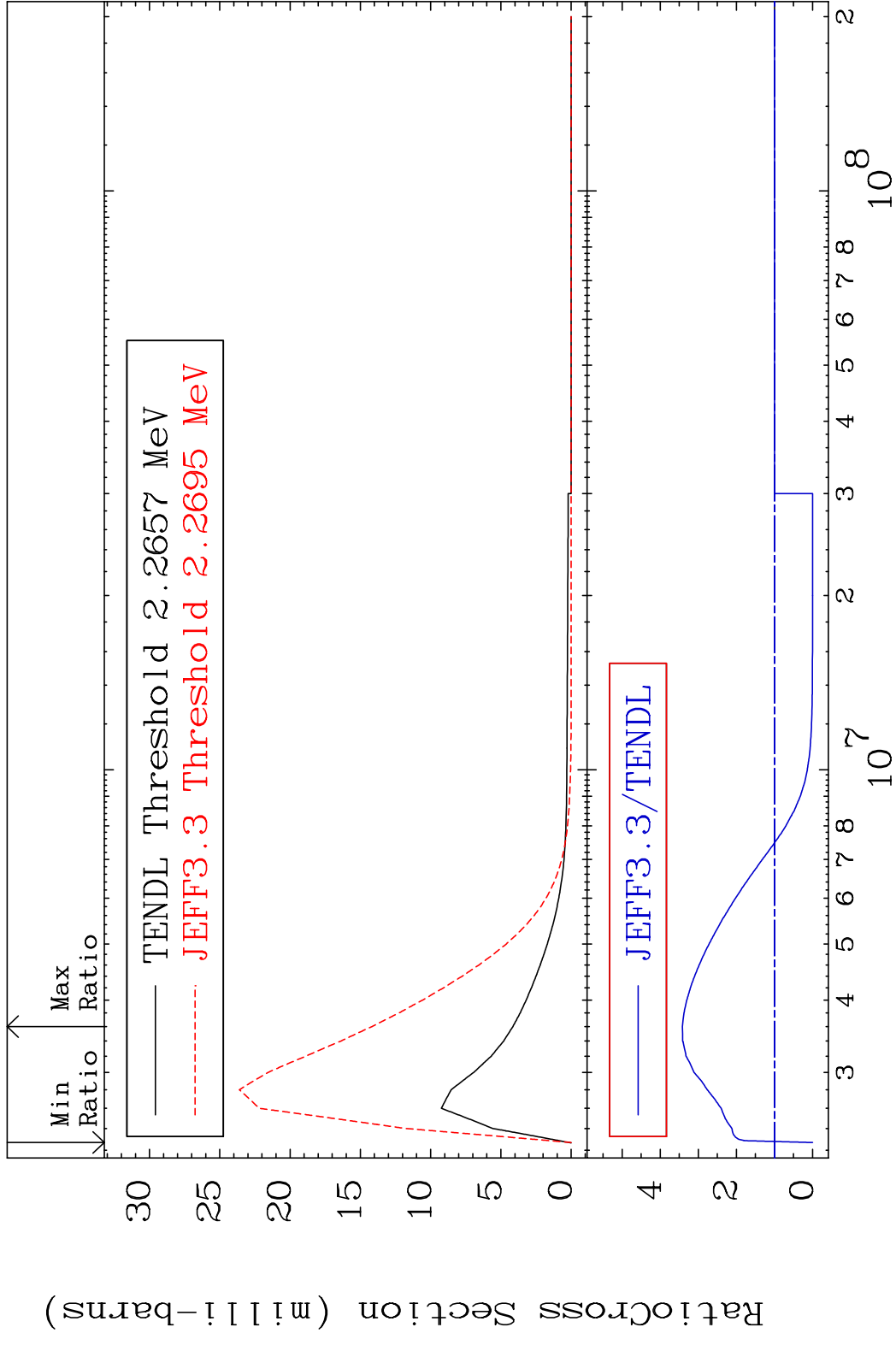


40 3 4 5 6 7 8 10⁷ 2 3 4 5 6 7 8 10⁸ 39-Y -90

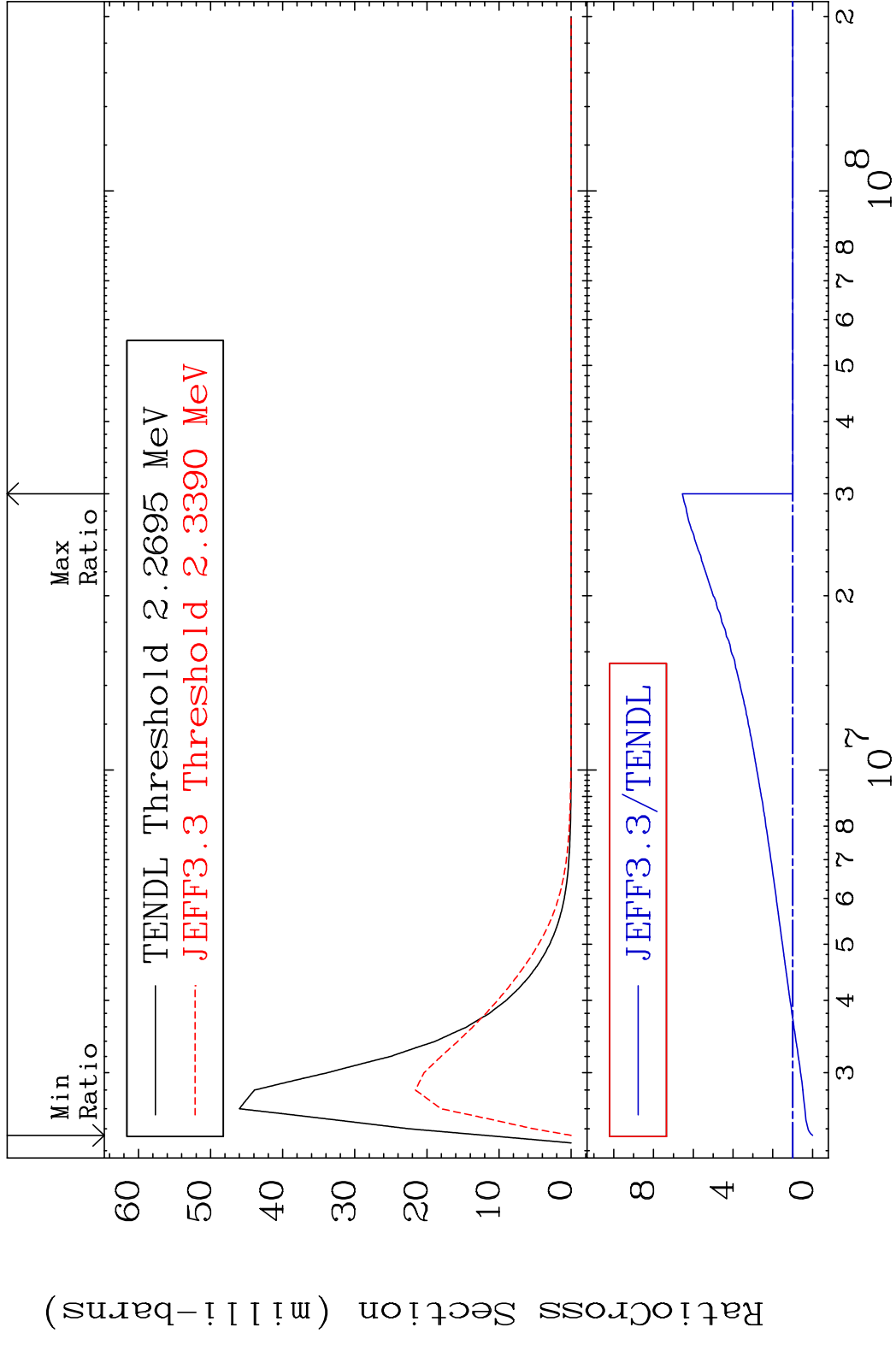
MAT 3928 MT= 74 (n, n') Level 39-Y -90
 Cross Section -100.0 To 1954. %



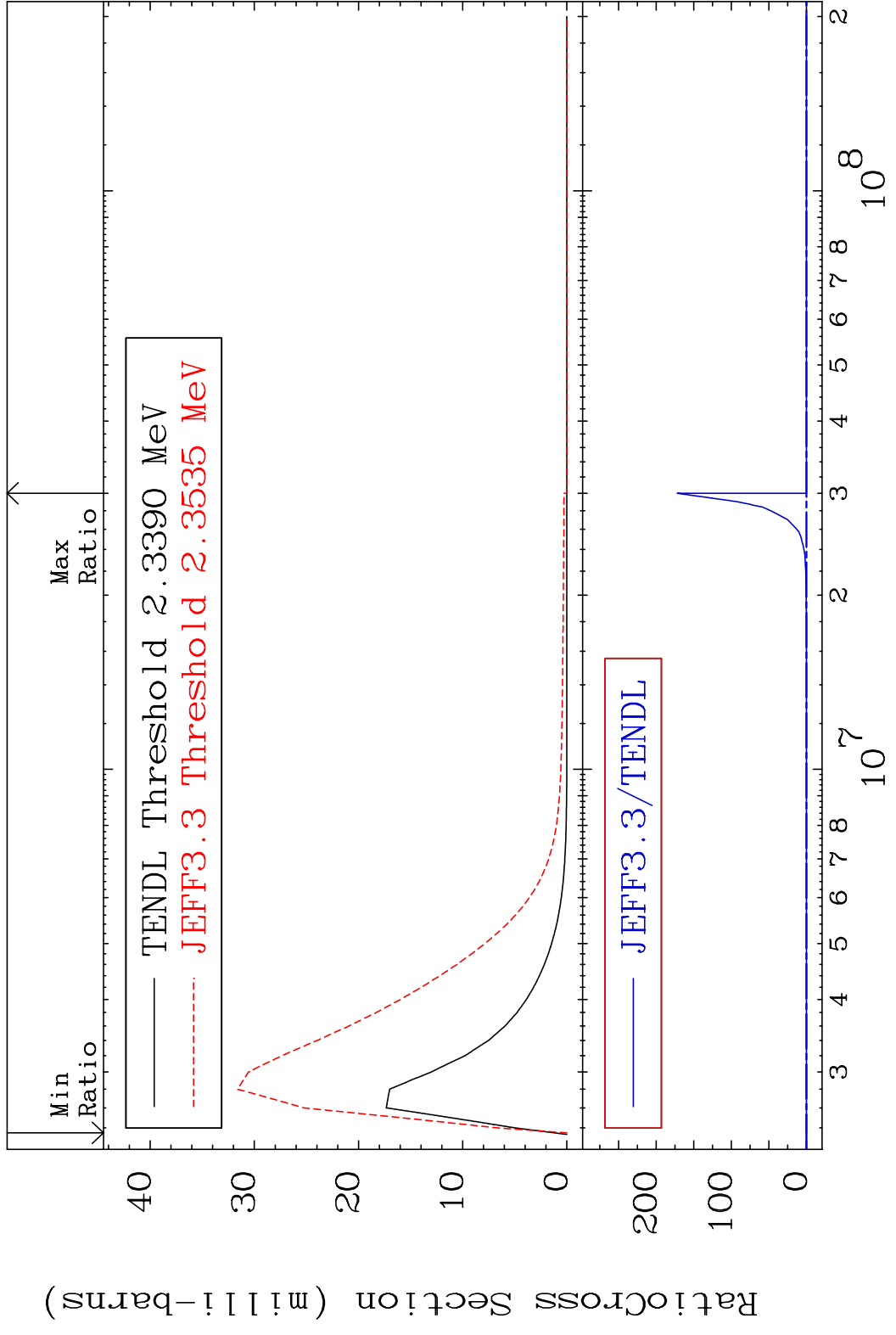
MAT 3928 MT= 75 (n, n') Level 39-Y -90
 Cross Section -100.0 To 241.9 %



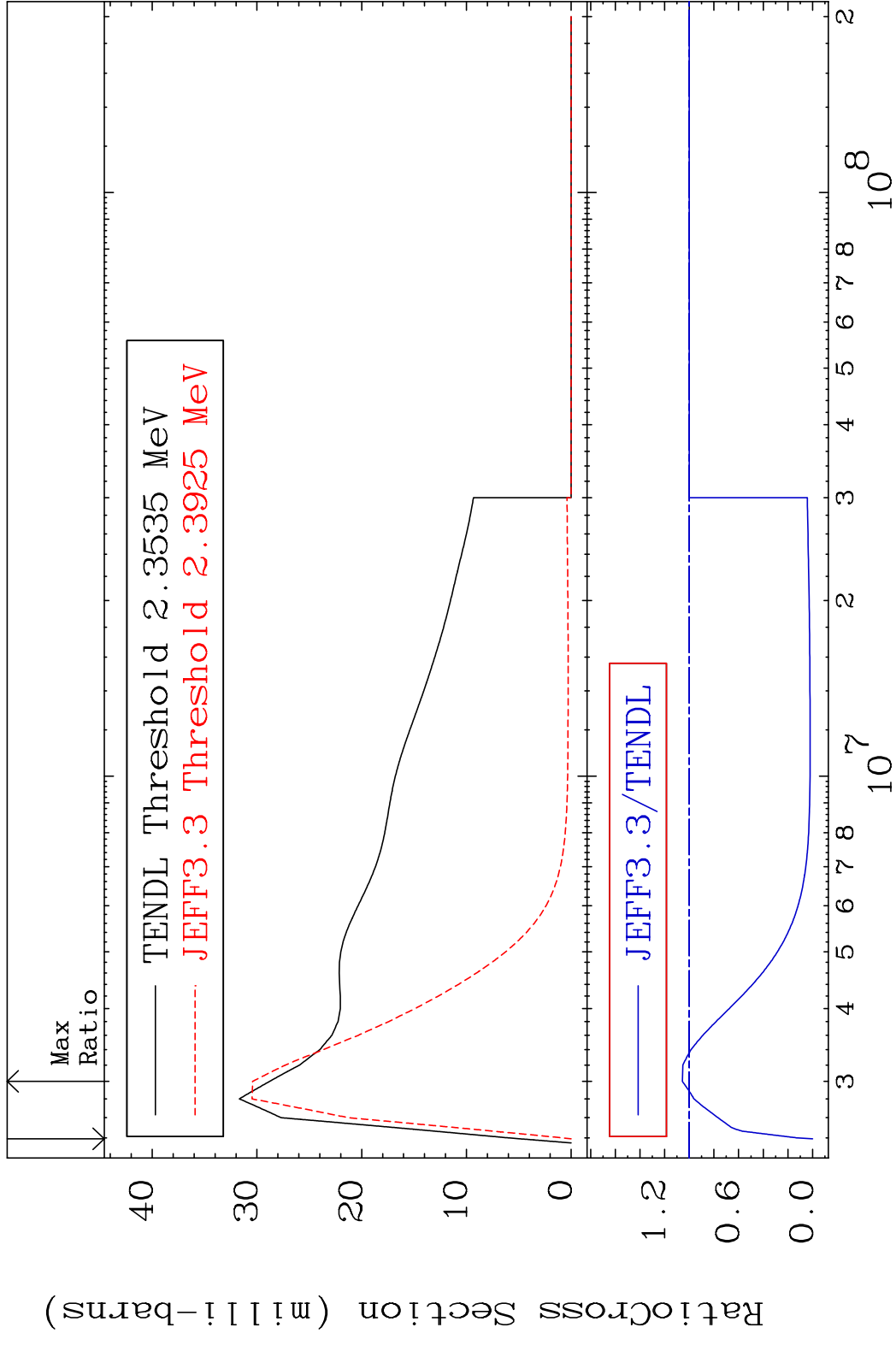
MAT 3928 MT= 76 (n, n') Level 39-Y -90
 Cross Section -100.0 To 555.0 %



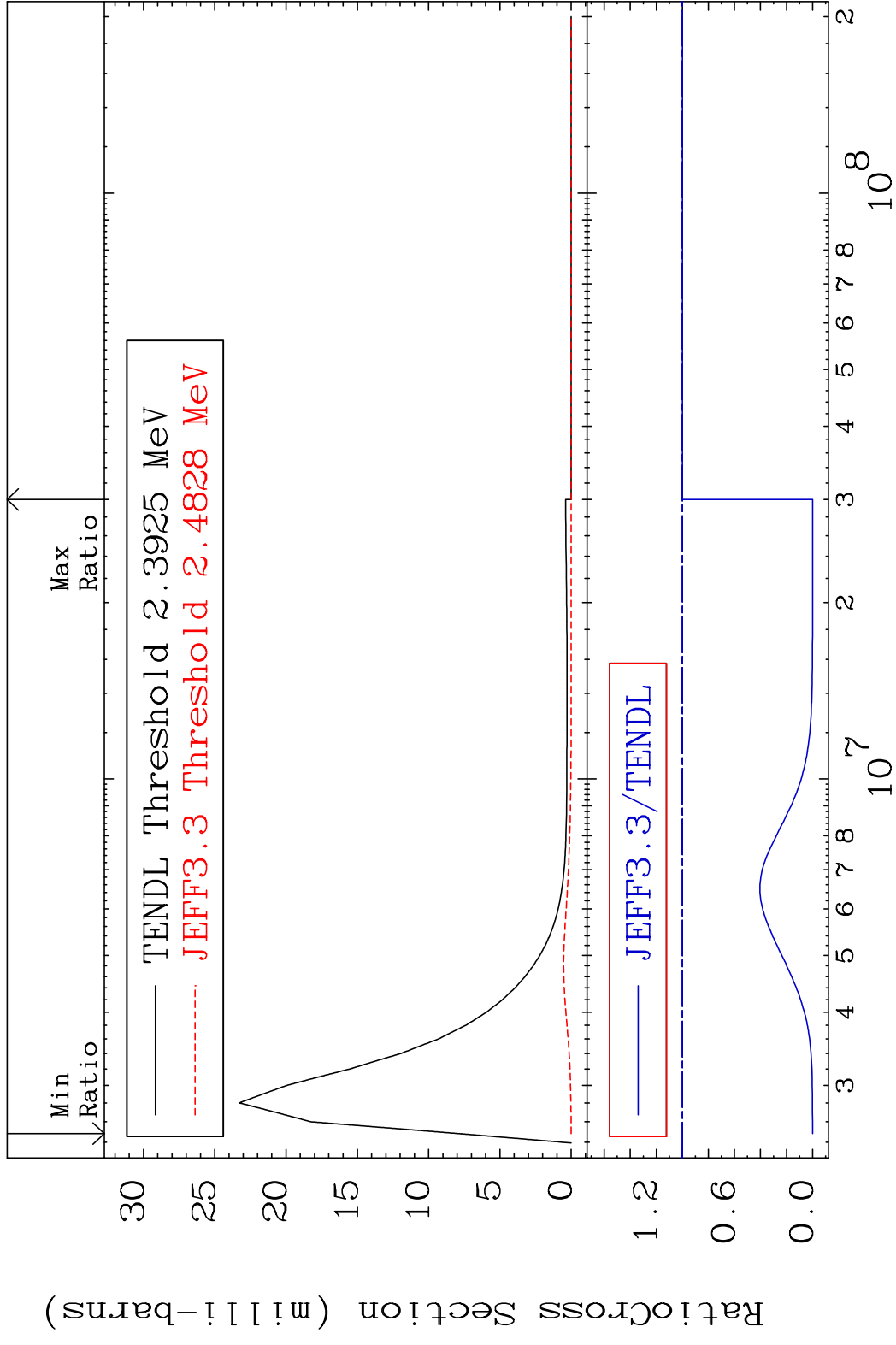
MAT 3928 MT= 77 (n, n') Level 39-Y -90
 Cross Section -100.0 To 9999. %



MAT 3928 MT= 78 (n, n') Level 39-Y -90
 Cross Section -100.0 To 5.635 %

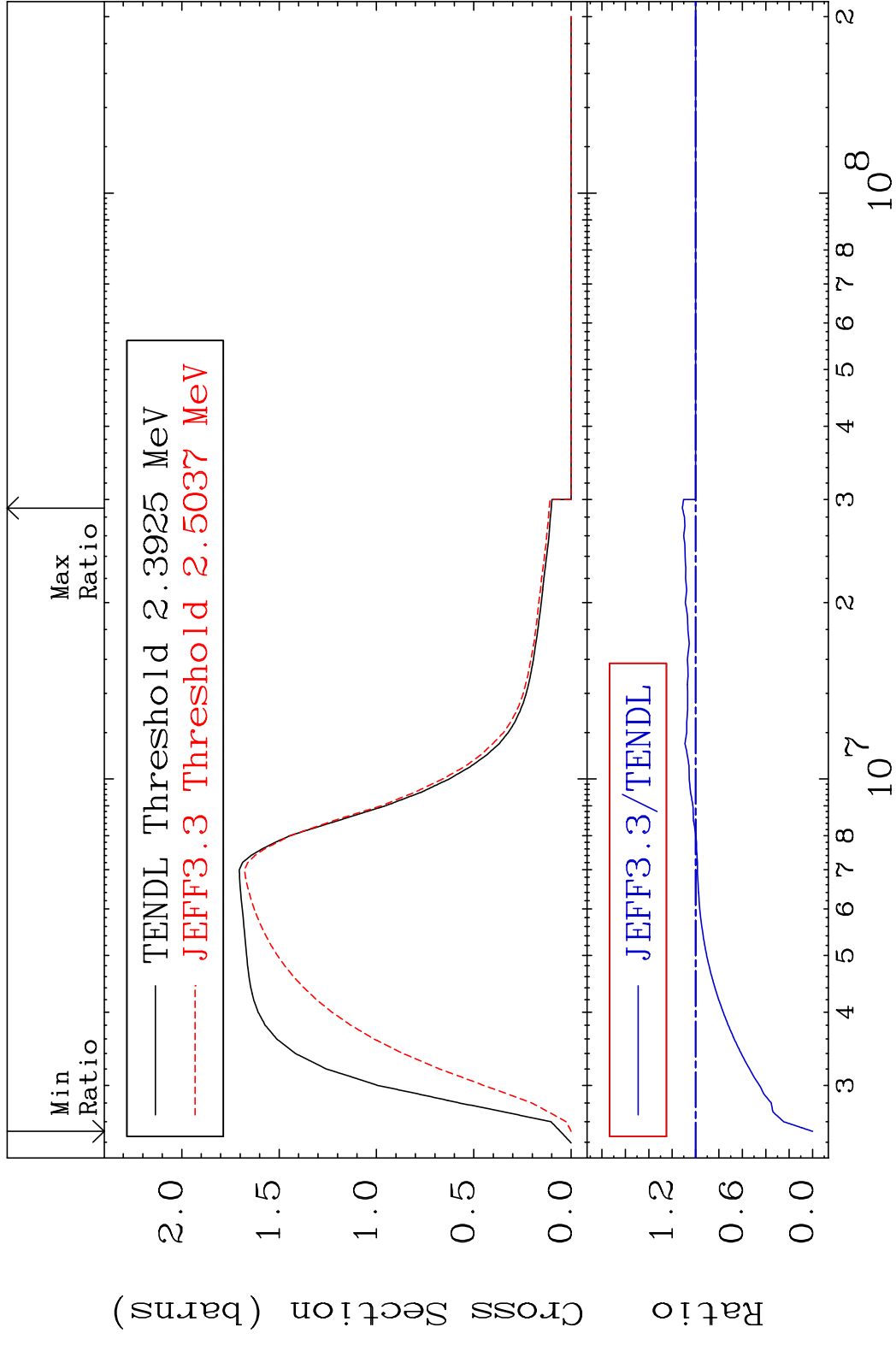


MAT 3928 MT= 79 (n, n') Level 39-Y -90
 Cross Section -100.0 To 0.000 %



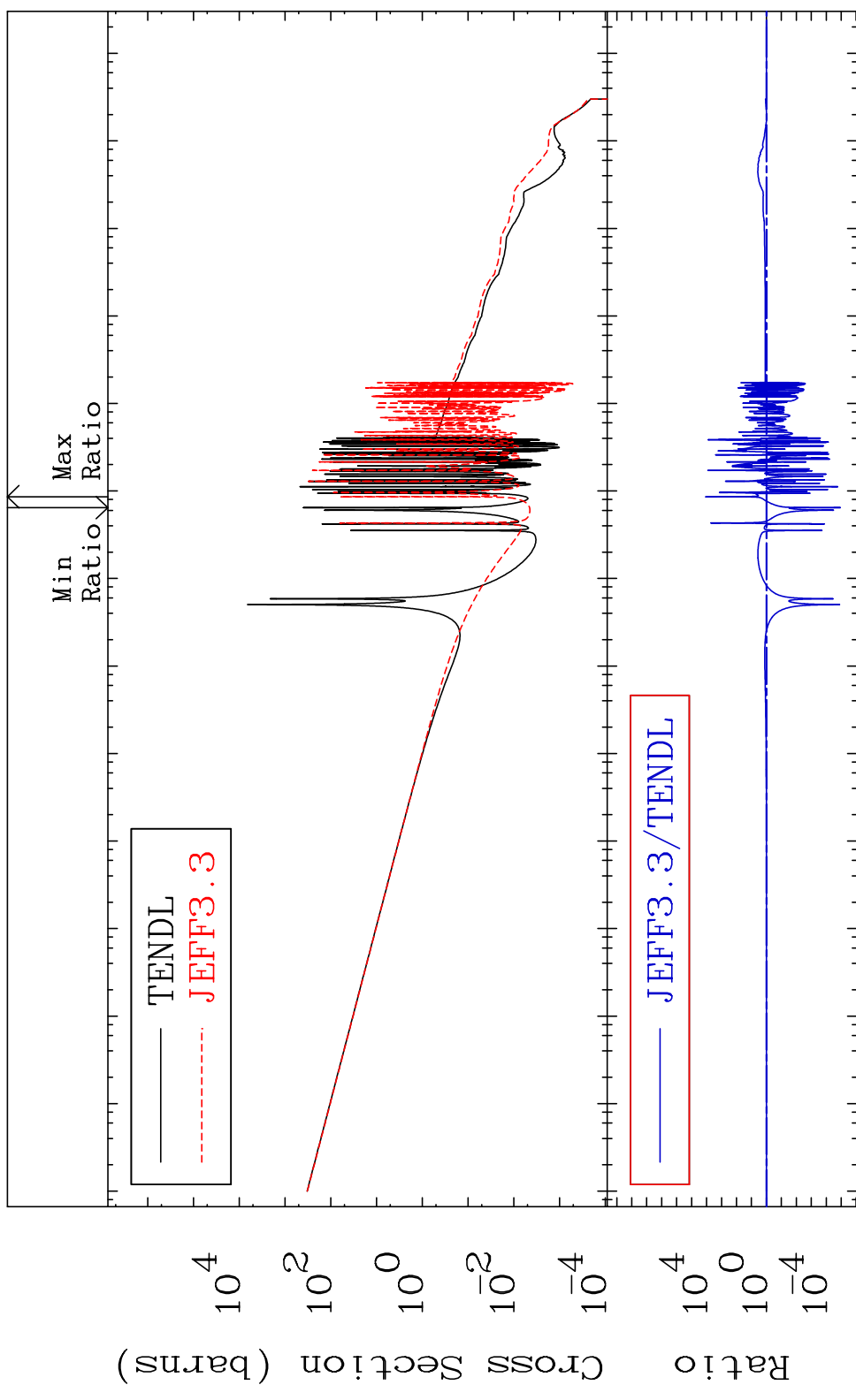
46 Incident Energy (eV) 39-Y -90

MAT 3928 (n,n') Continuum 39-Y -90
 Cross Section -100.0 To 11.29 %



MAT 3928

(n, γ)
Cross Section -100.0 To 9999. %
39-Y -90

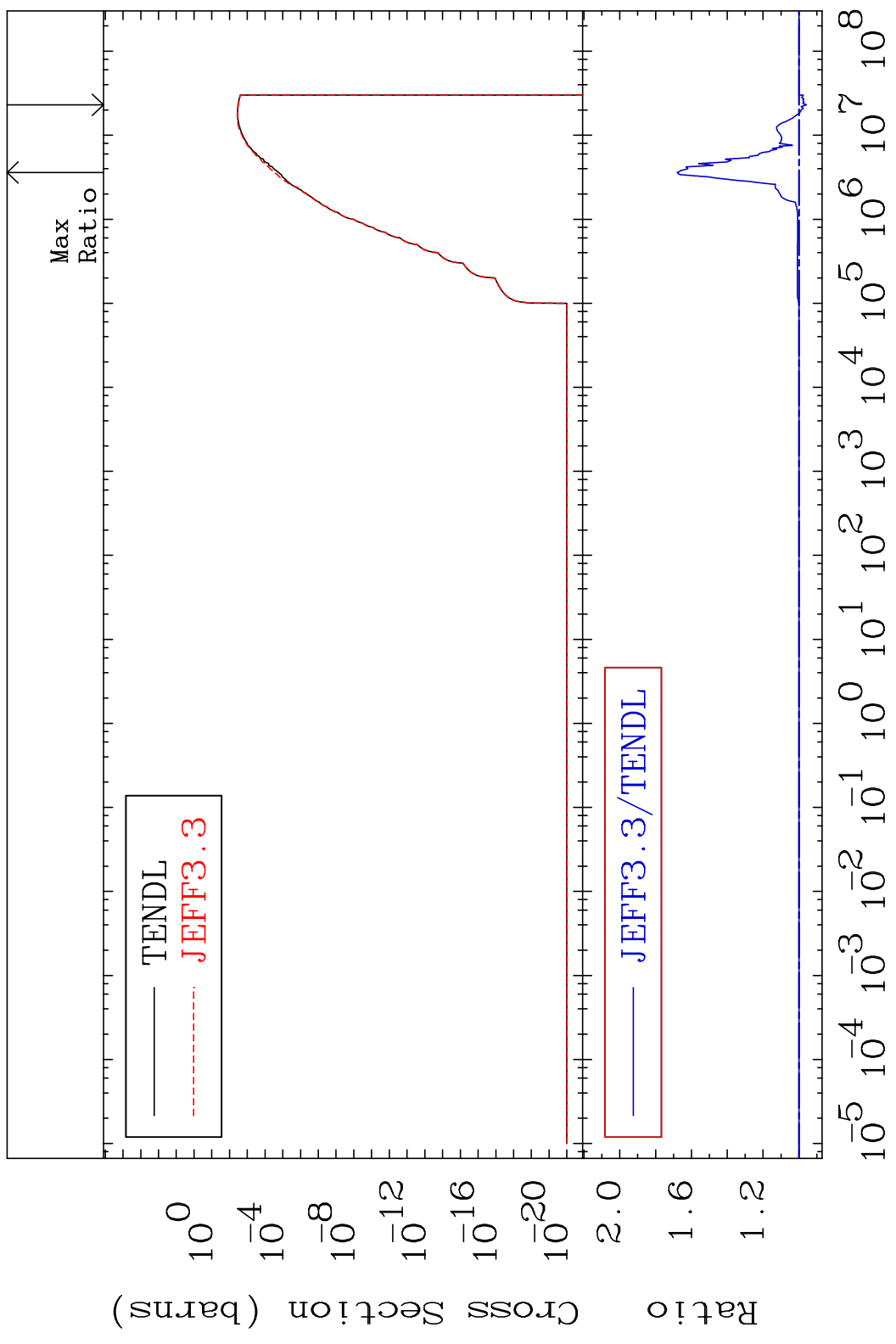


MAT 3928

(n, p)

39-Y -90

Cross Section -4.186 To 67.96 %



49

Incident Energy (eV)

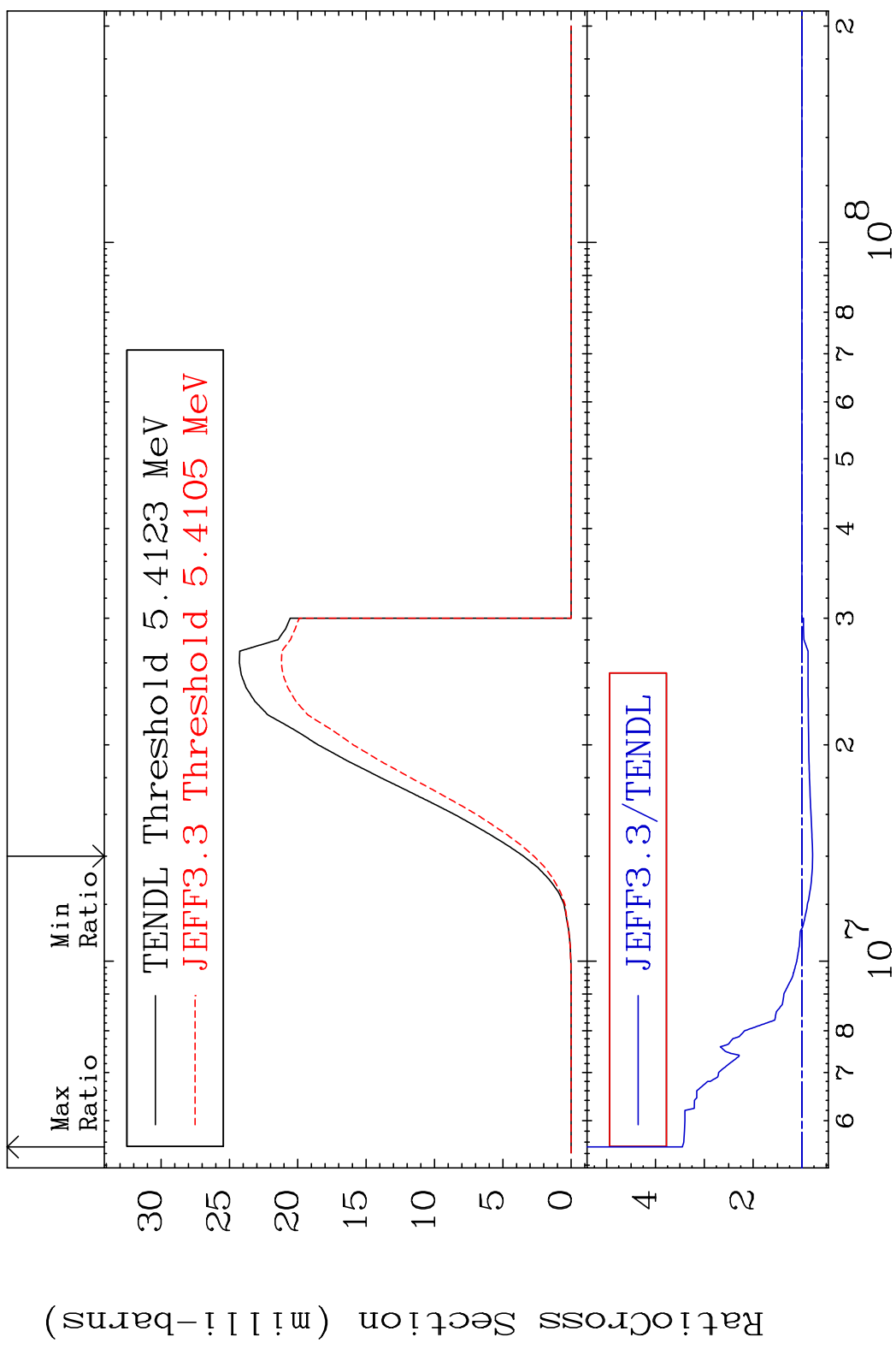
39-Y -90

MAT 3928

(n,d)

39-Y -90

Cross Section -21.93 To 244.8 %

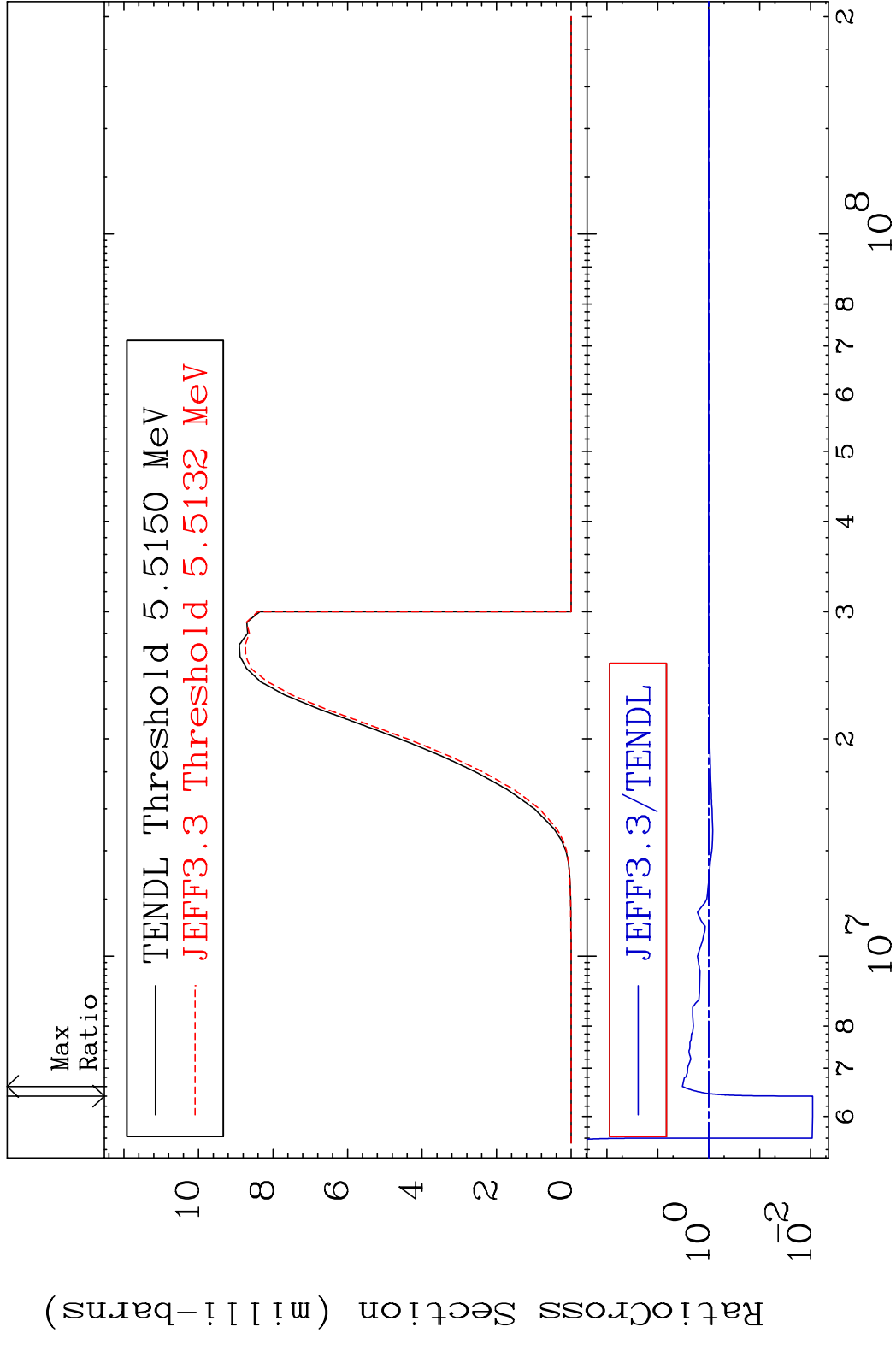


50

Incident Energy (eV)

39-Y -90

MAT 3928 (n, t) 39-Y -90
 Cross Section -99.09 To 229.3 %

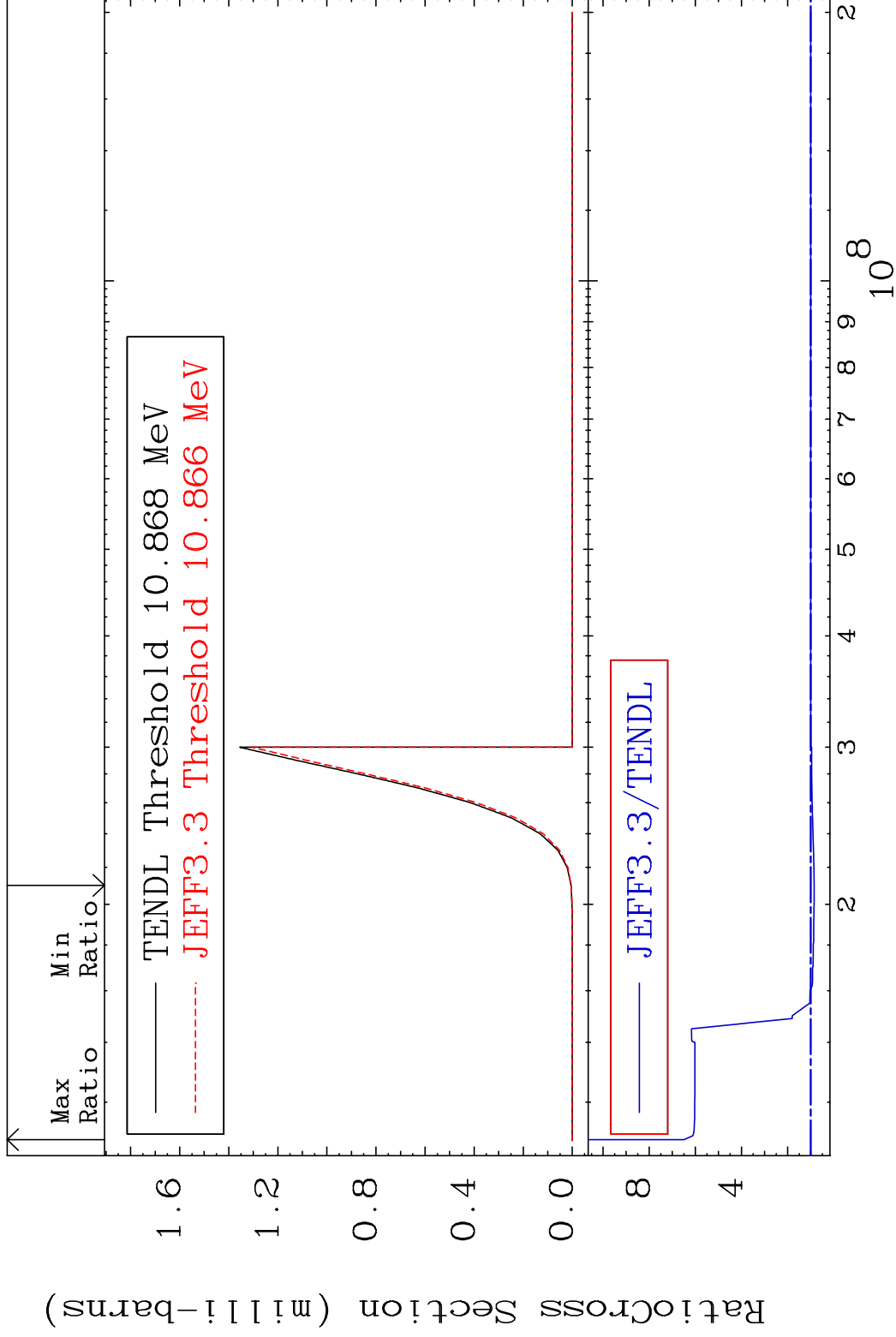


MAT 3928

(n, He-3)

39-Y -90

Cross Section -14.22 To 550.8 %



52

Incident Energy (eV)

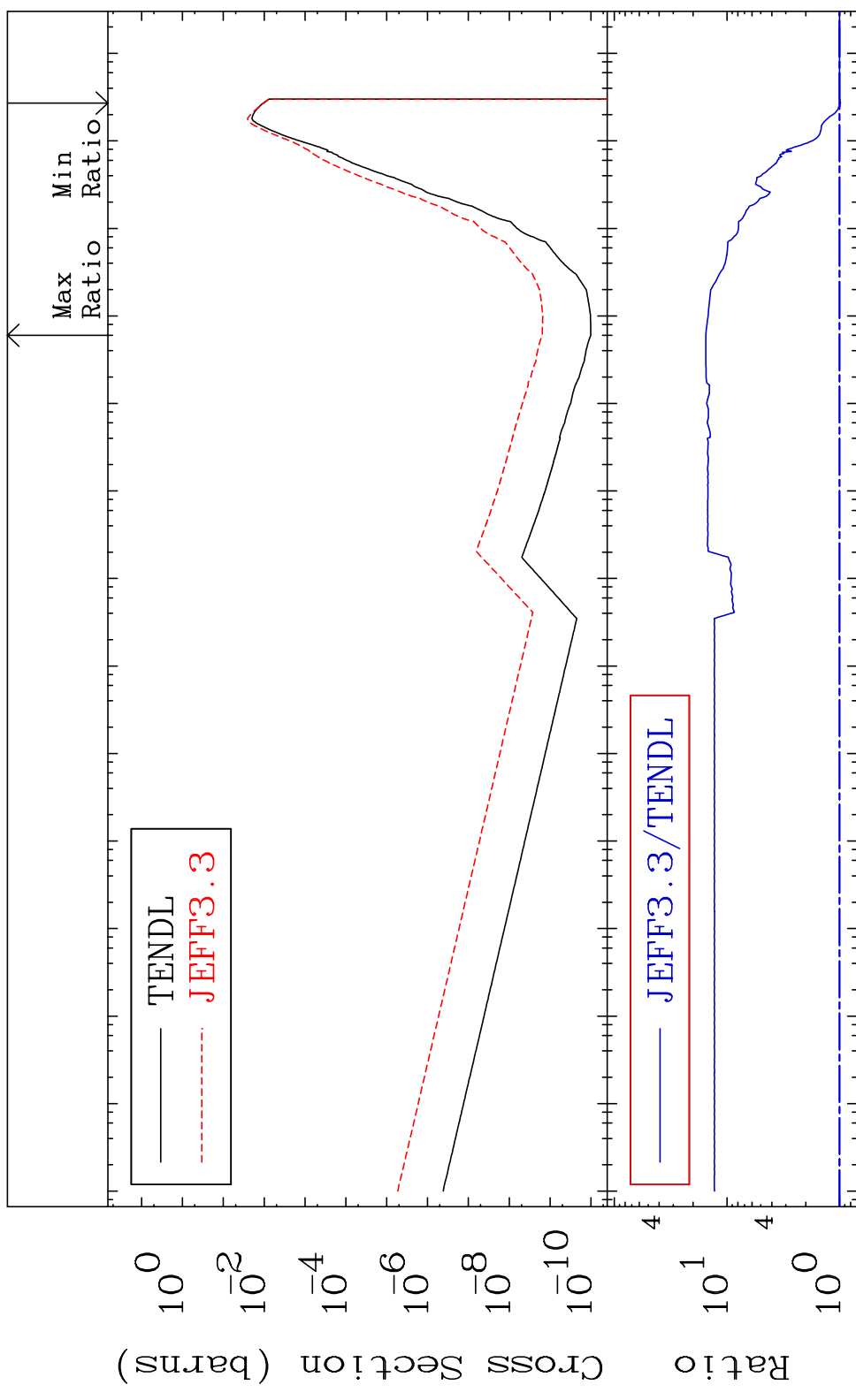
39-Y -90

MAT 3928

(n, α)

39-Y -90

Cross Section -1.605 To 1442. %



53

Incident Energy (eV)

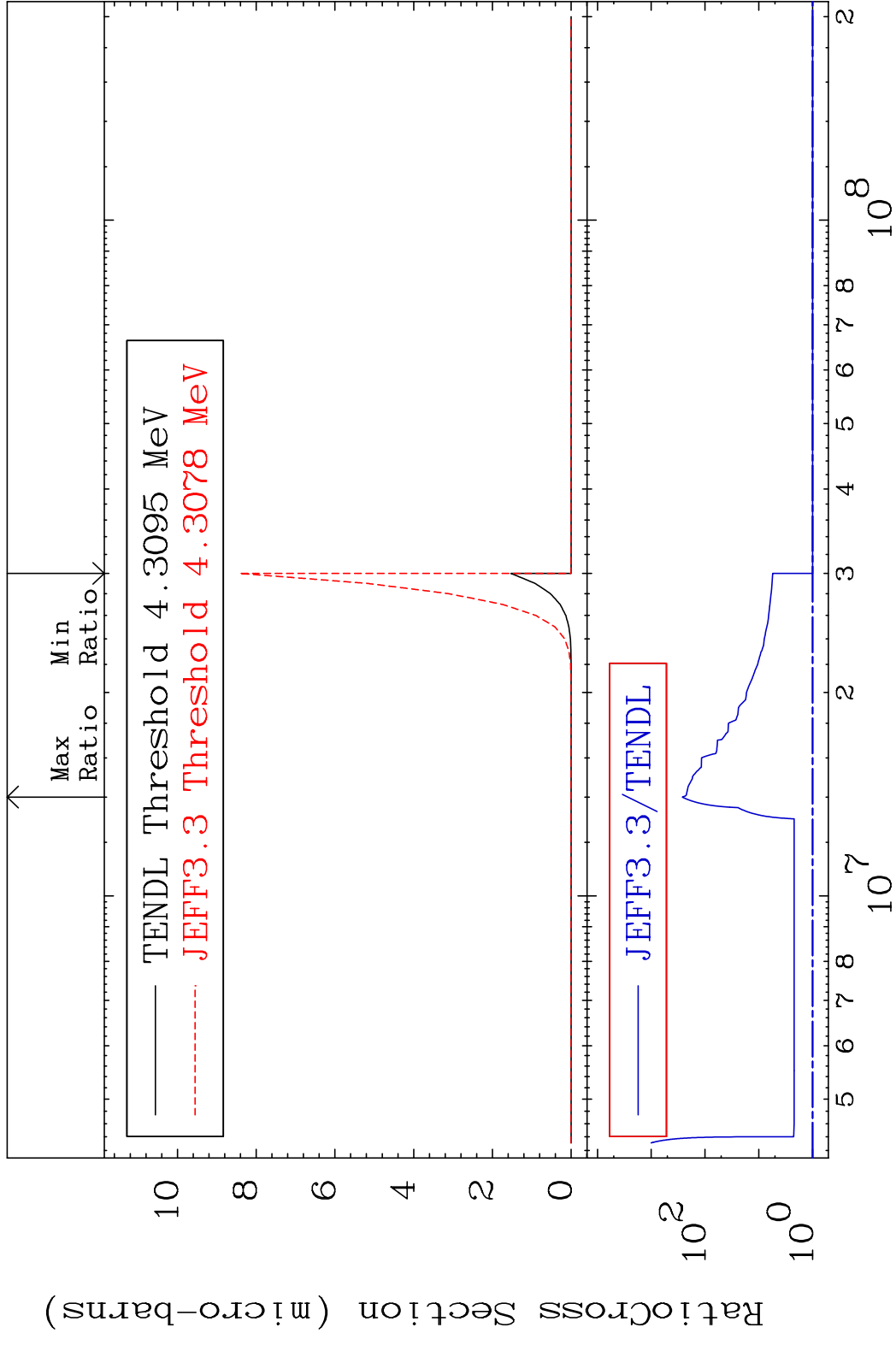
39-Y -90

MAT 3928

(n,2α)

39-Y -90

Cross Section 0.000 To 9999. %

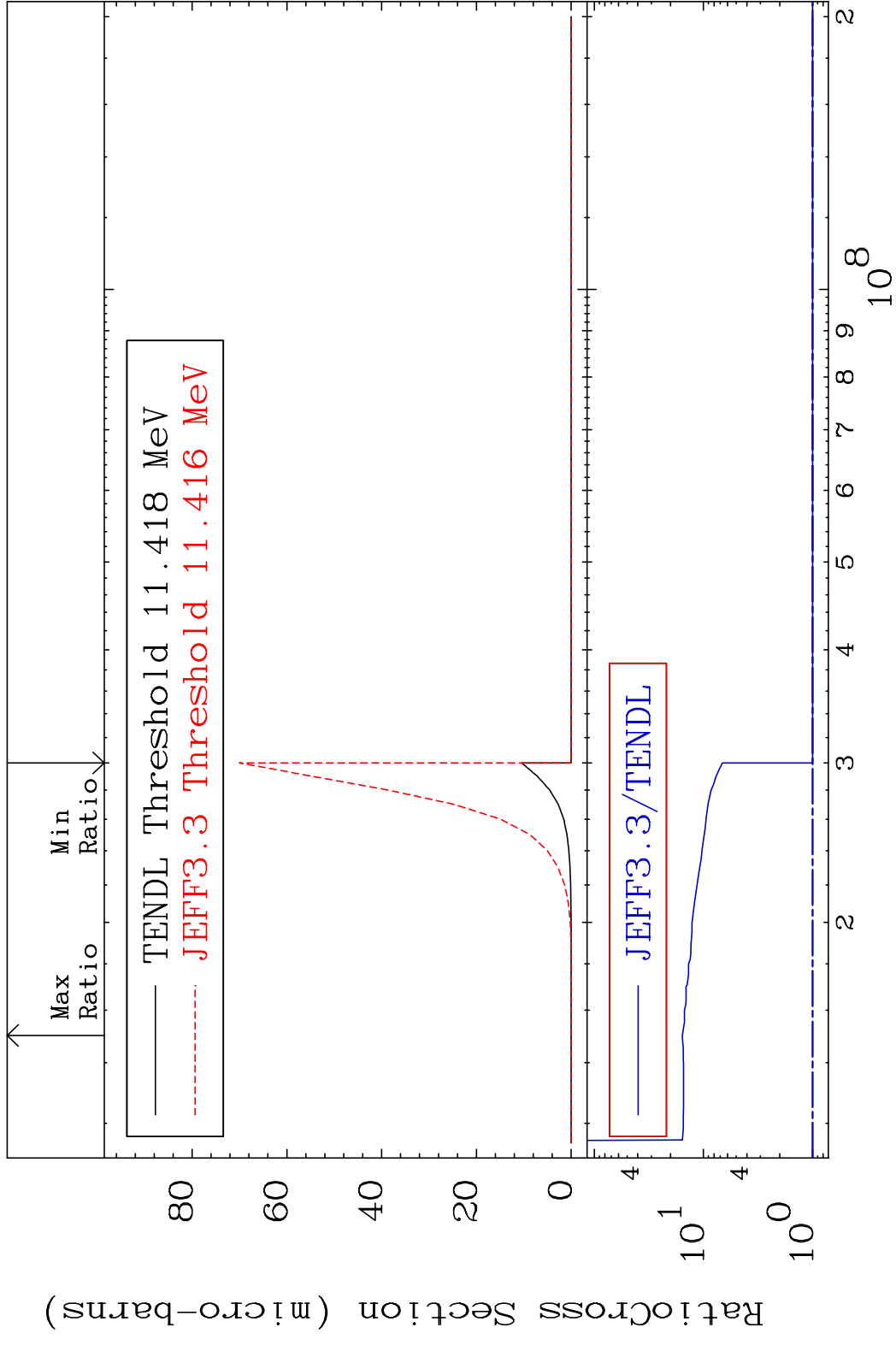


MAT 3928

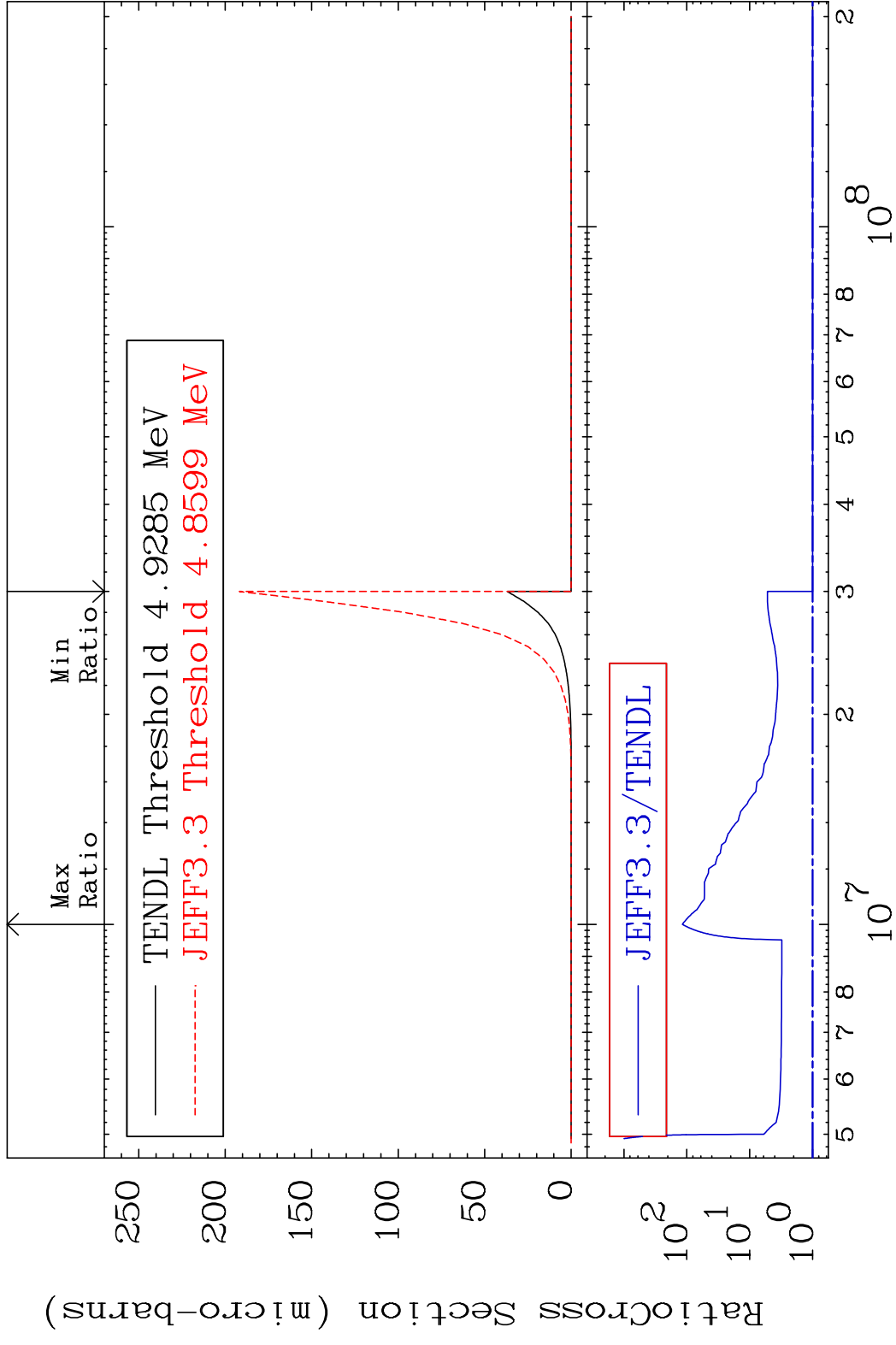
(n,2p)

39-Y -90

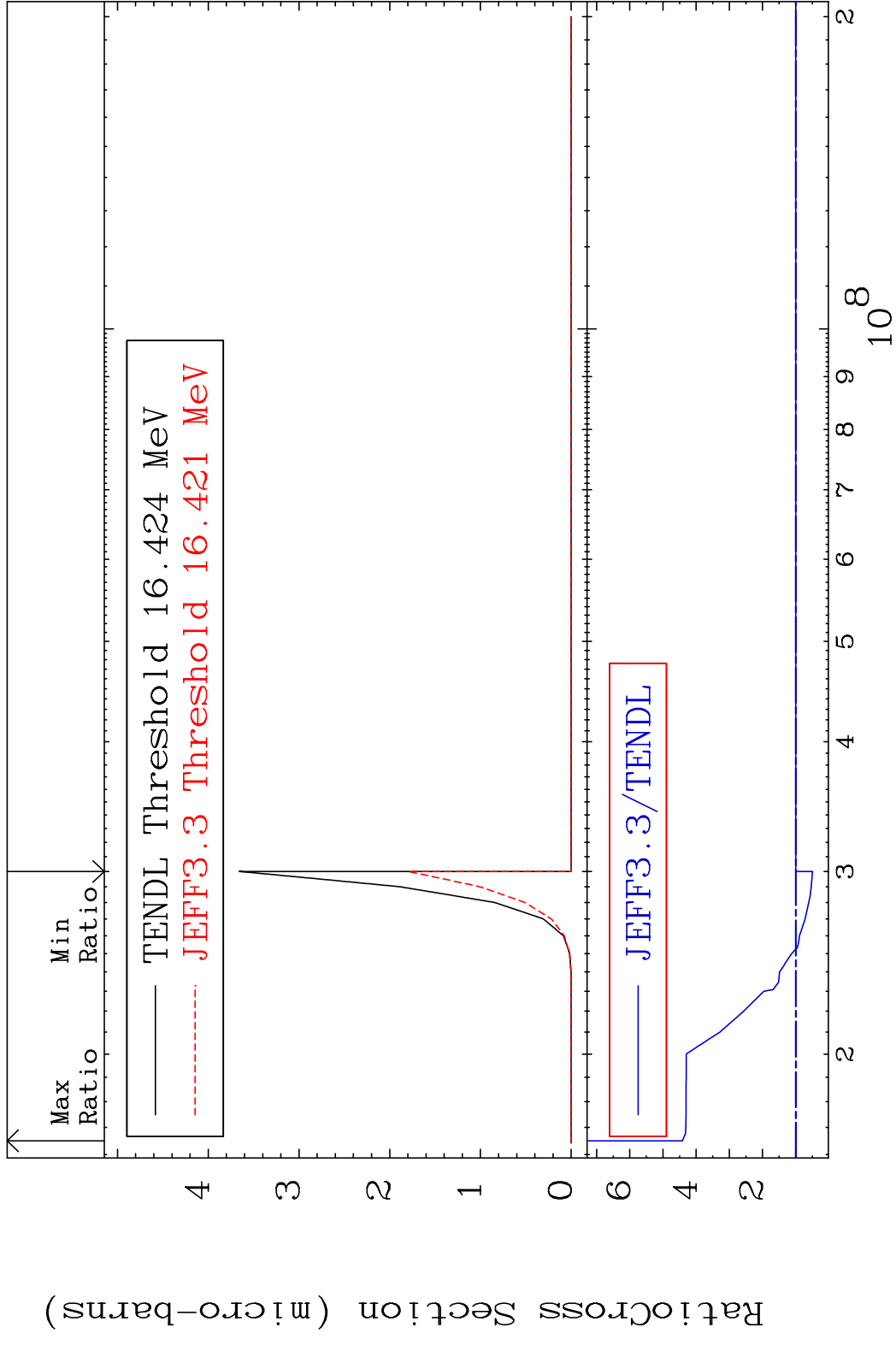
Cross Section 0.000 To 1460. %



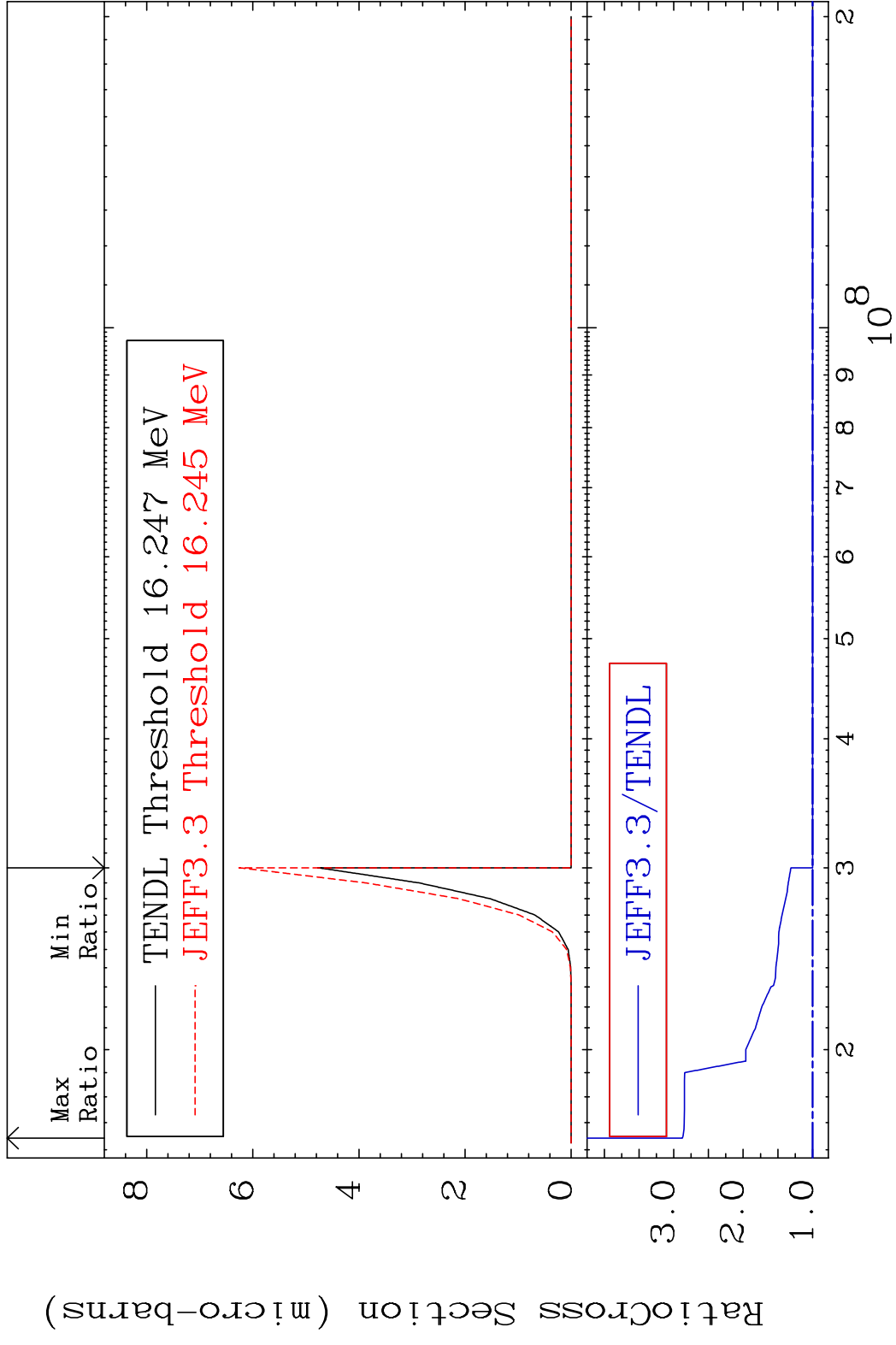
MAT 3928 (n,p) α 39-Y -90
 Cross Section 0.000 To 9999. %



MAT 3928 (n,p) d 39-Y -90
 Cross Section -50.82 To 341.6 %



MAT 3928 (n,p) t 39-Y -90
 Cross Section 0.000 To 187.6 %

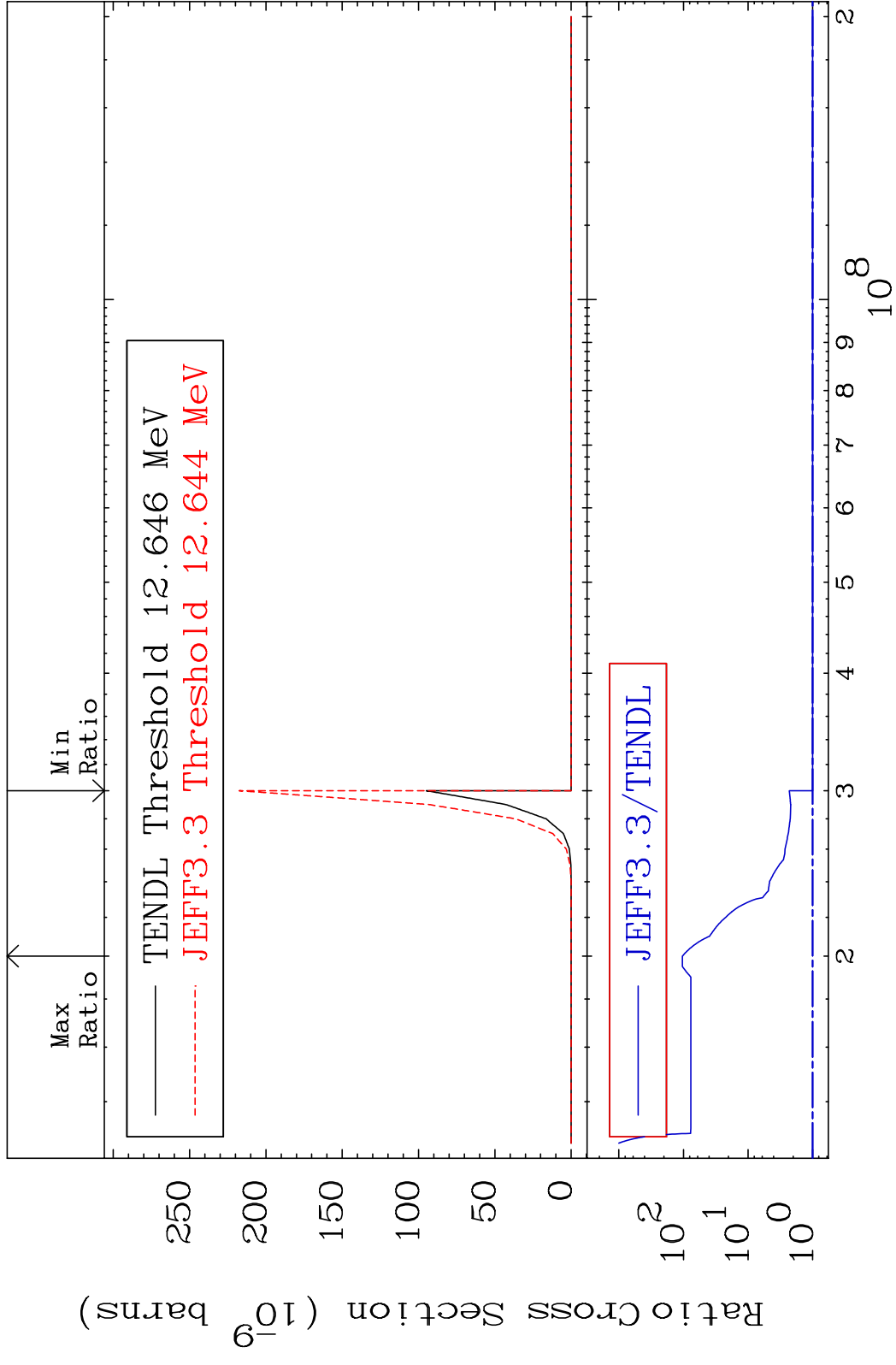


MAT 3928

(n,d) α

39-Y -90

Cross Section 0.000 To 9999. %



59

Incident Energy (eV)

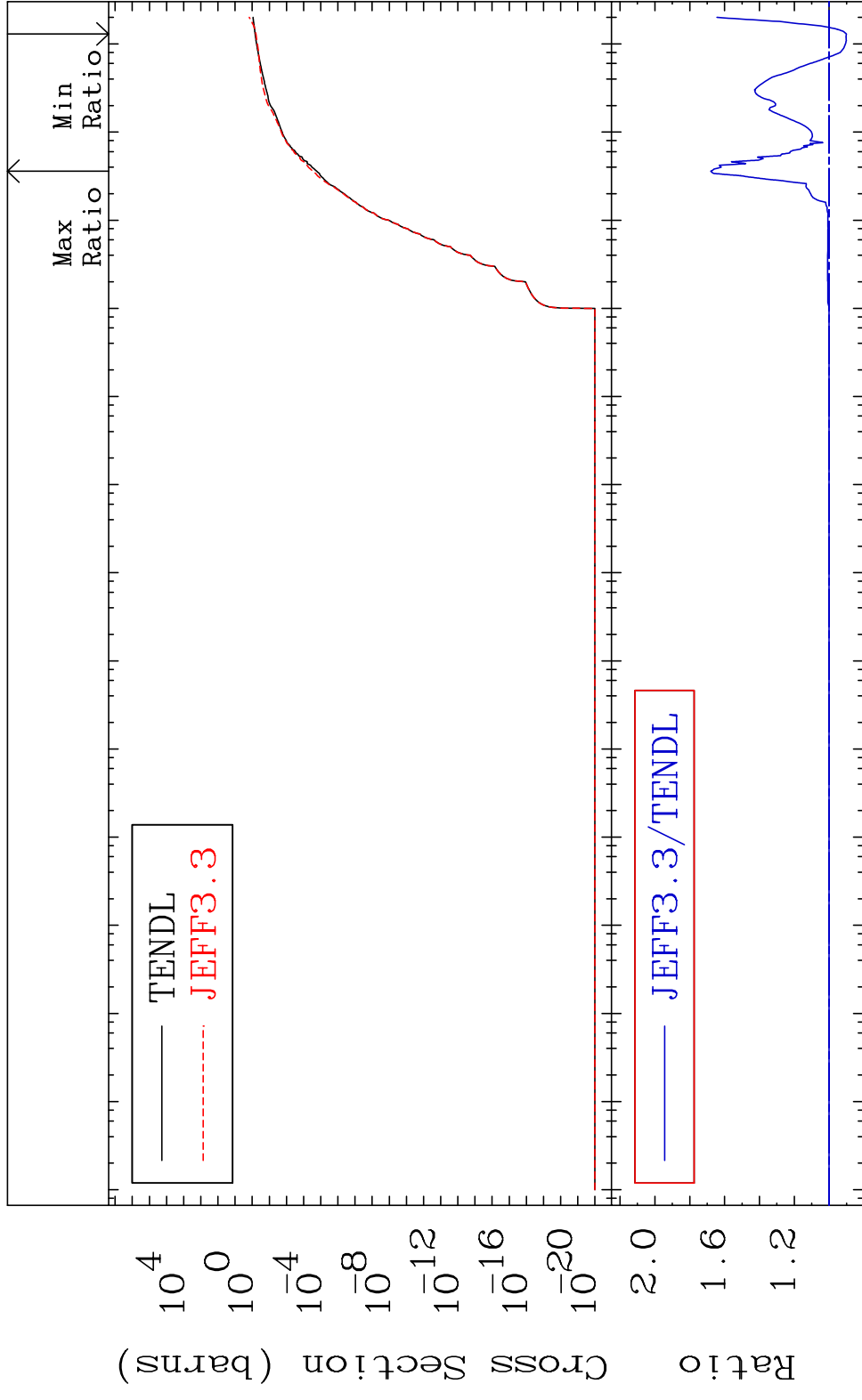
39-Y -90

MAT 3928

Hydrogen Production

39-Y -90

Cross Section -9.880 To 67.96 %



60

Incident Energy (eV)

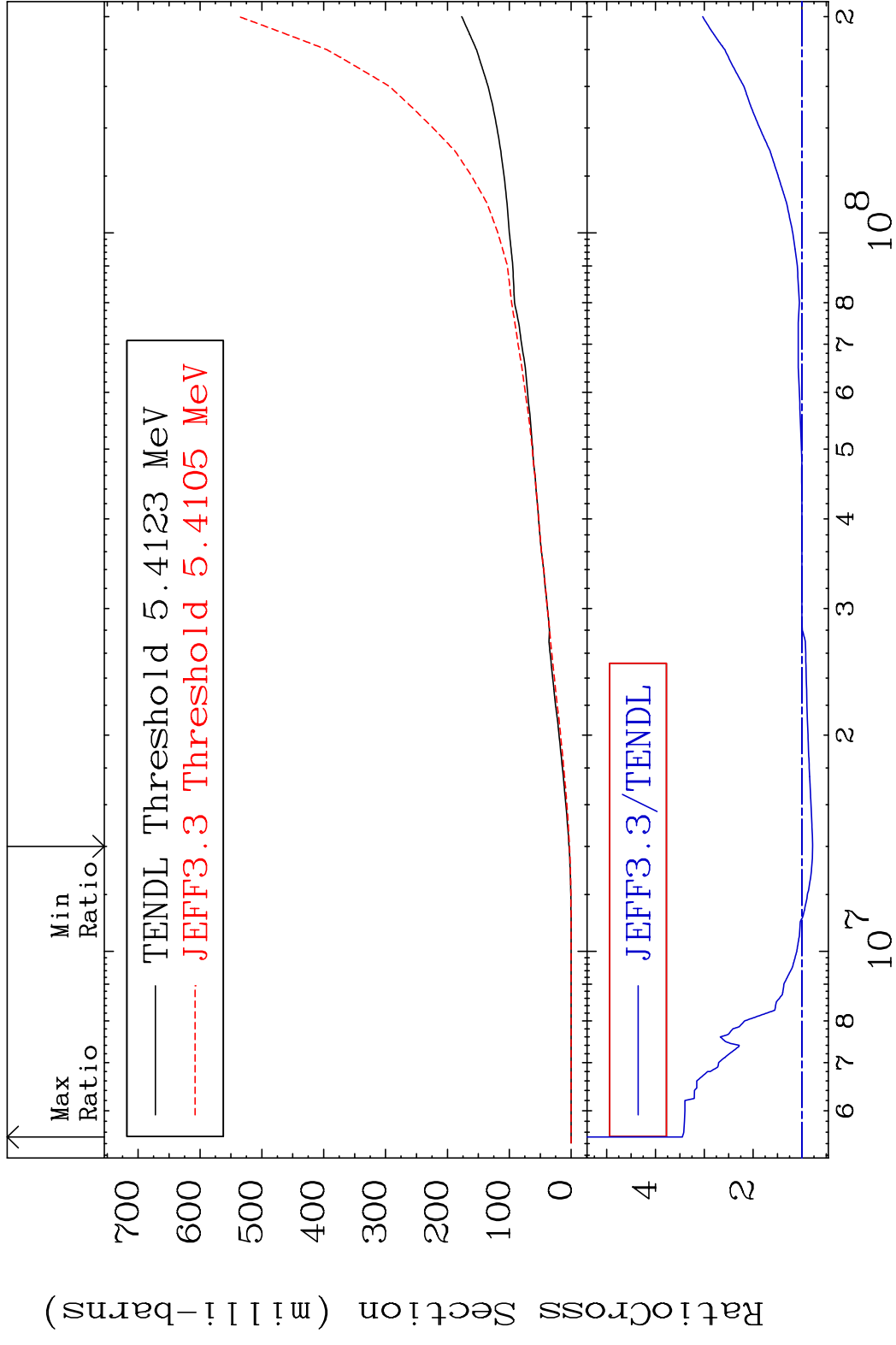
39-Y -90

MAT 3928

Deuterium Production

39-Y -90

Cross Section -21.93 To 244.8 %

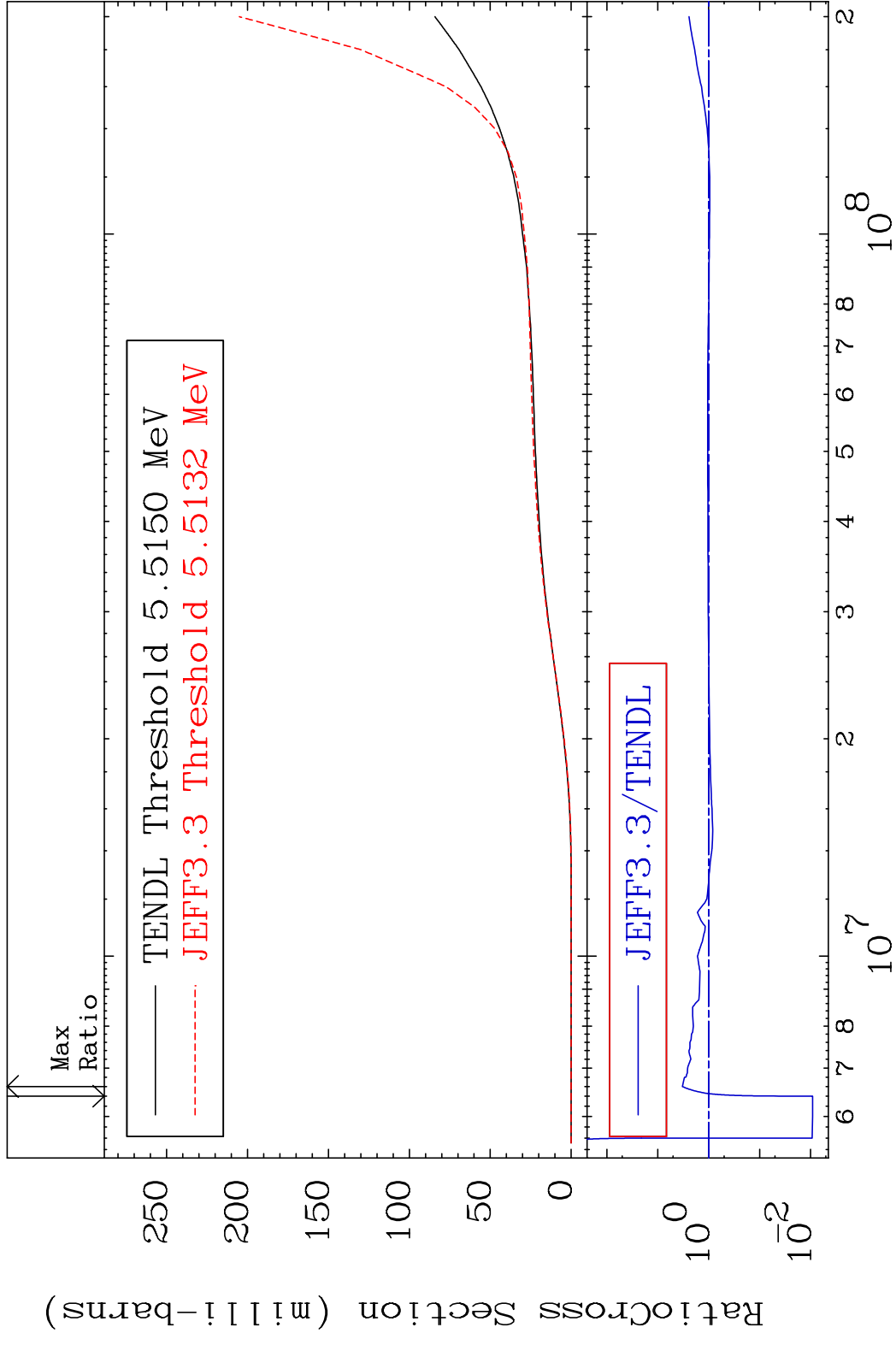


61

Incident Energy (eV)

39-Y -90

MAT 3928 Tritium Production 39-Y -90
 Cross Section -99.09 To 229.3 %



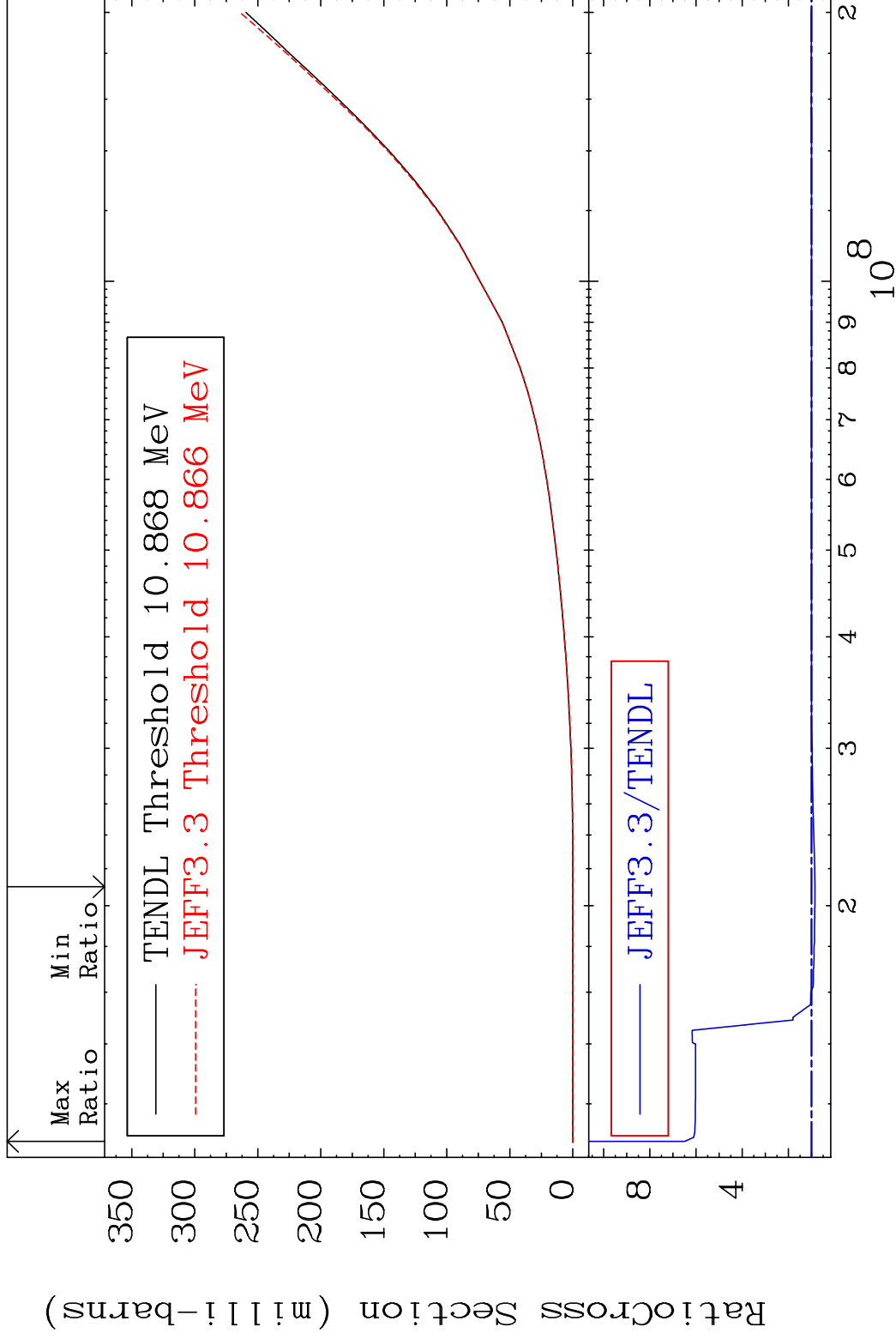
62 39-Y -90

MAT 3928

He-3 Production

39-Y -90

Cross Section -14.22 To 550.8 %



63

Incident Energy (eV)

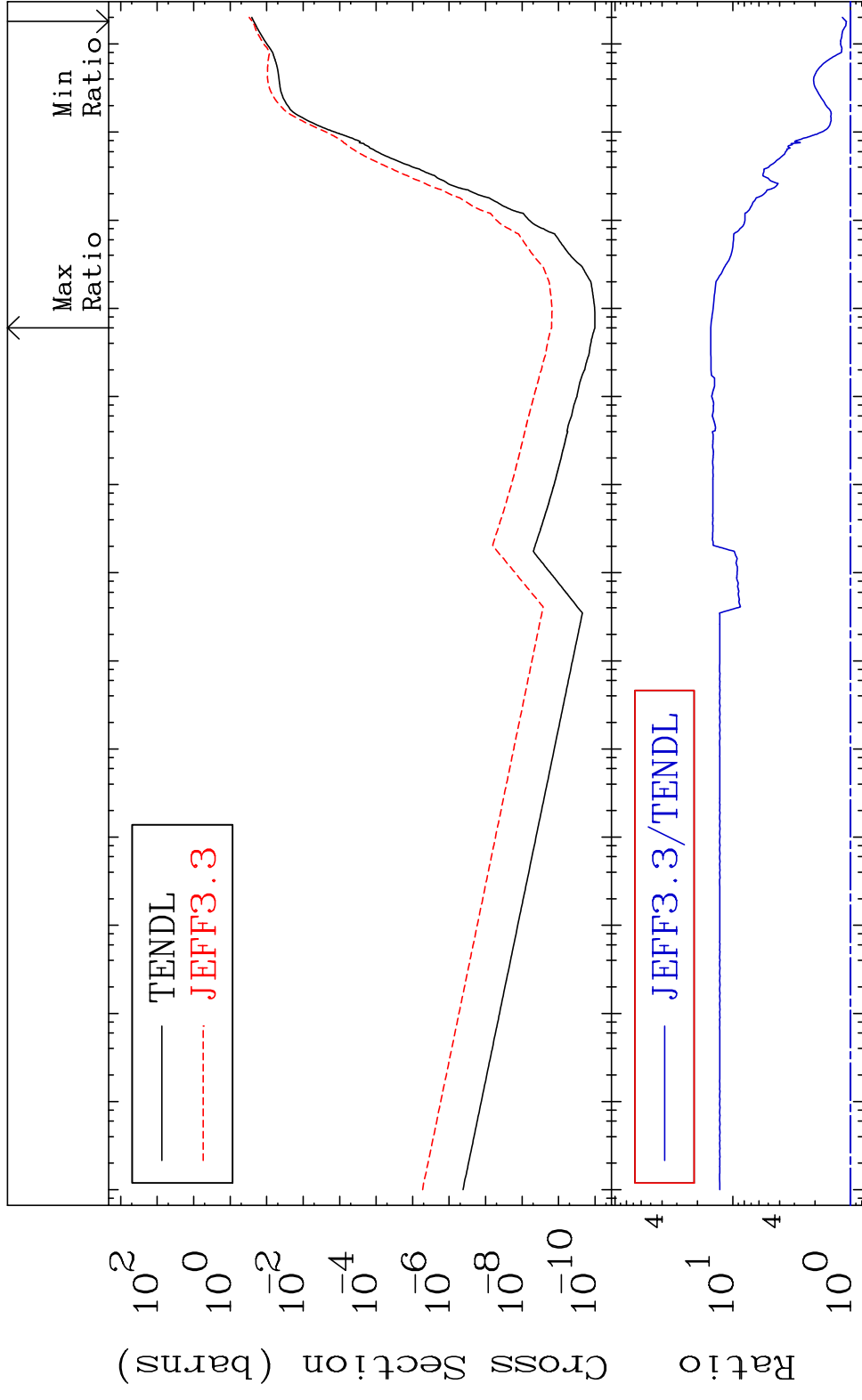
39-Y -90

MAT 3928

He-4 Production

39-Y -90

Cross Section 8.572 To 1442. %

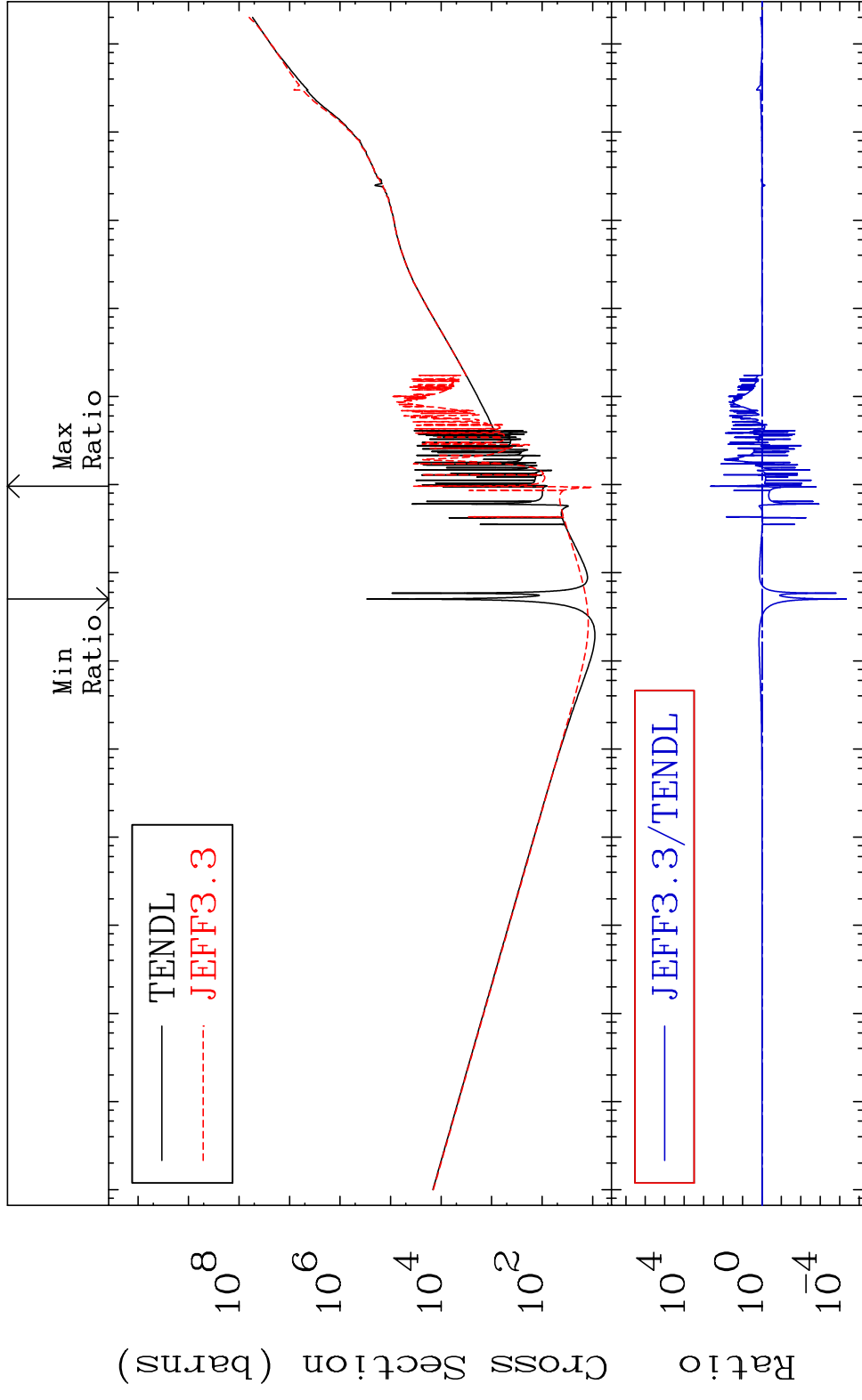


64

Incident Energy (eV)

39-Y -90

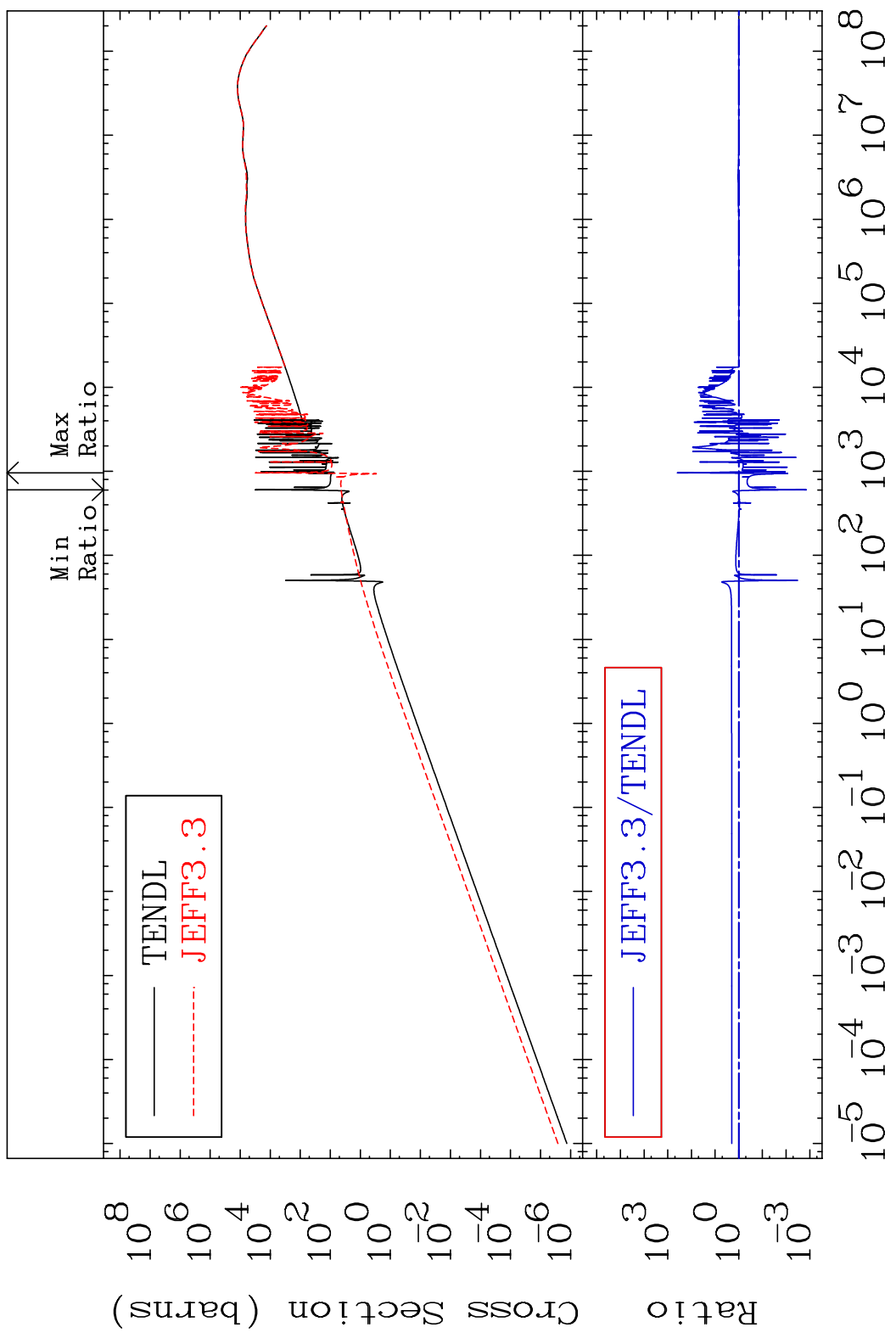
MAT 3928 Kerma total (eV-barns) 39-Y -90
 Cross Section -100.0 To 9999. %



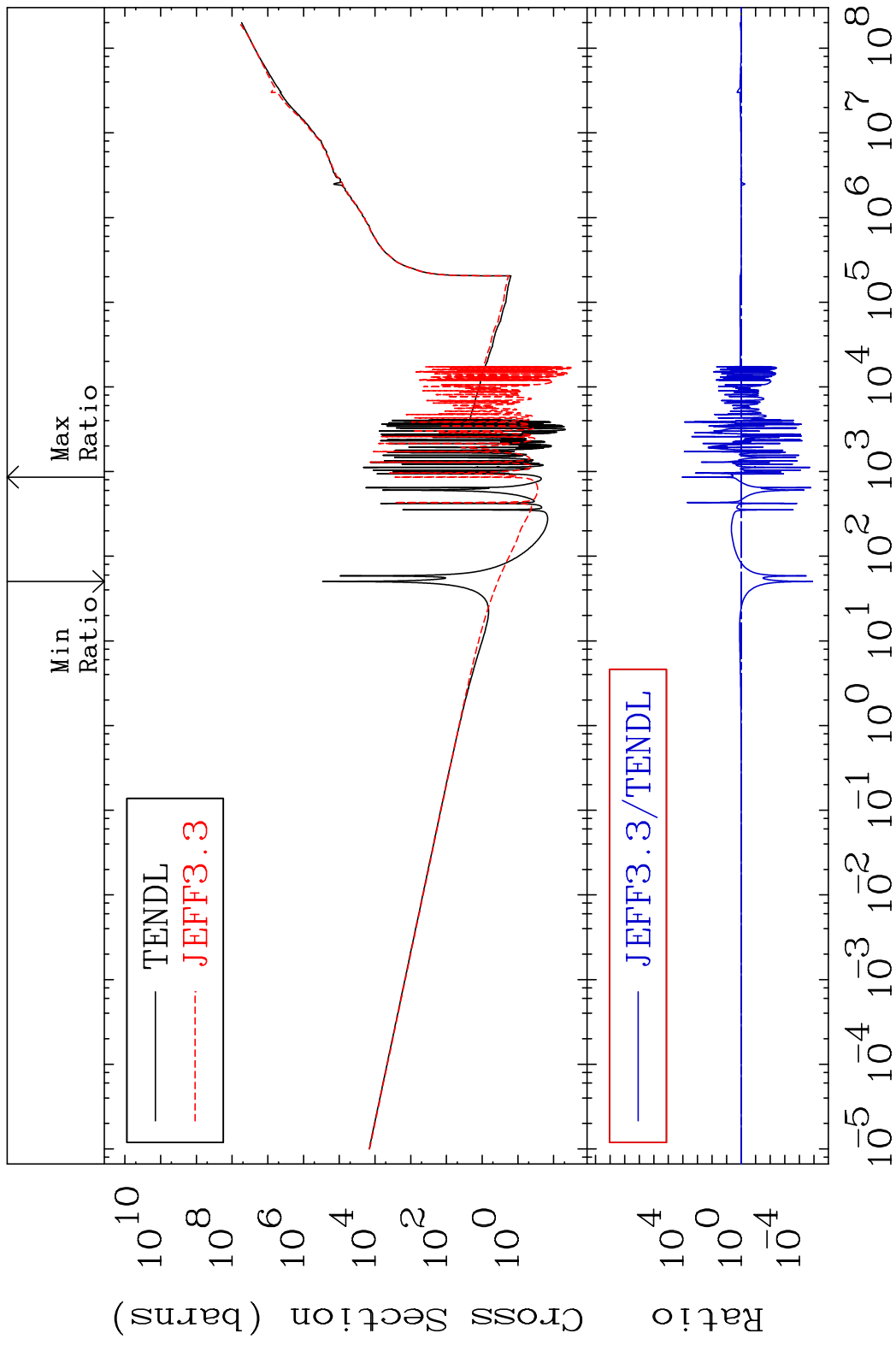
Ratio
 Cross Section (barns)
 Incident Energy (eV) 39-Y -90

MAT 3928

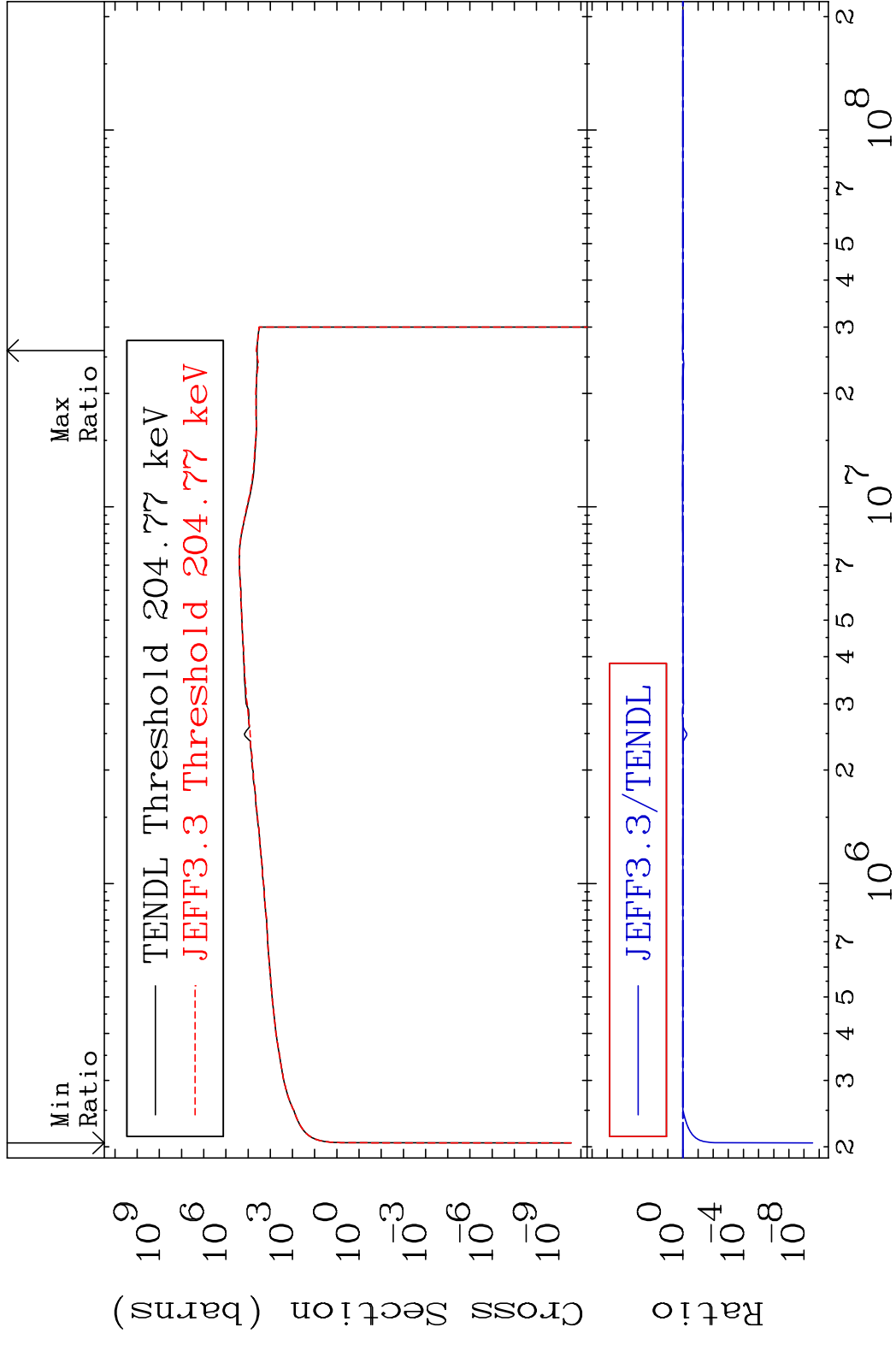
Kerma elastic Cross Section -99.86 To 9999. %
39-Y -90



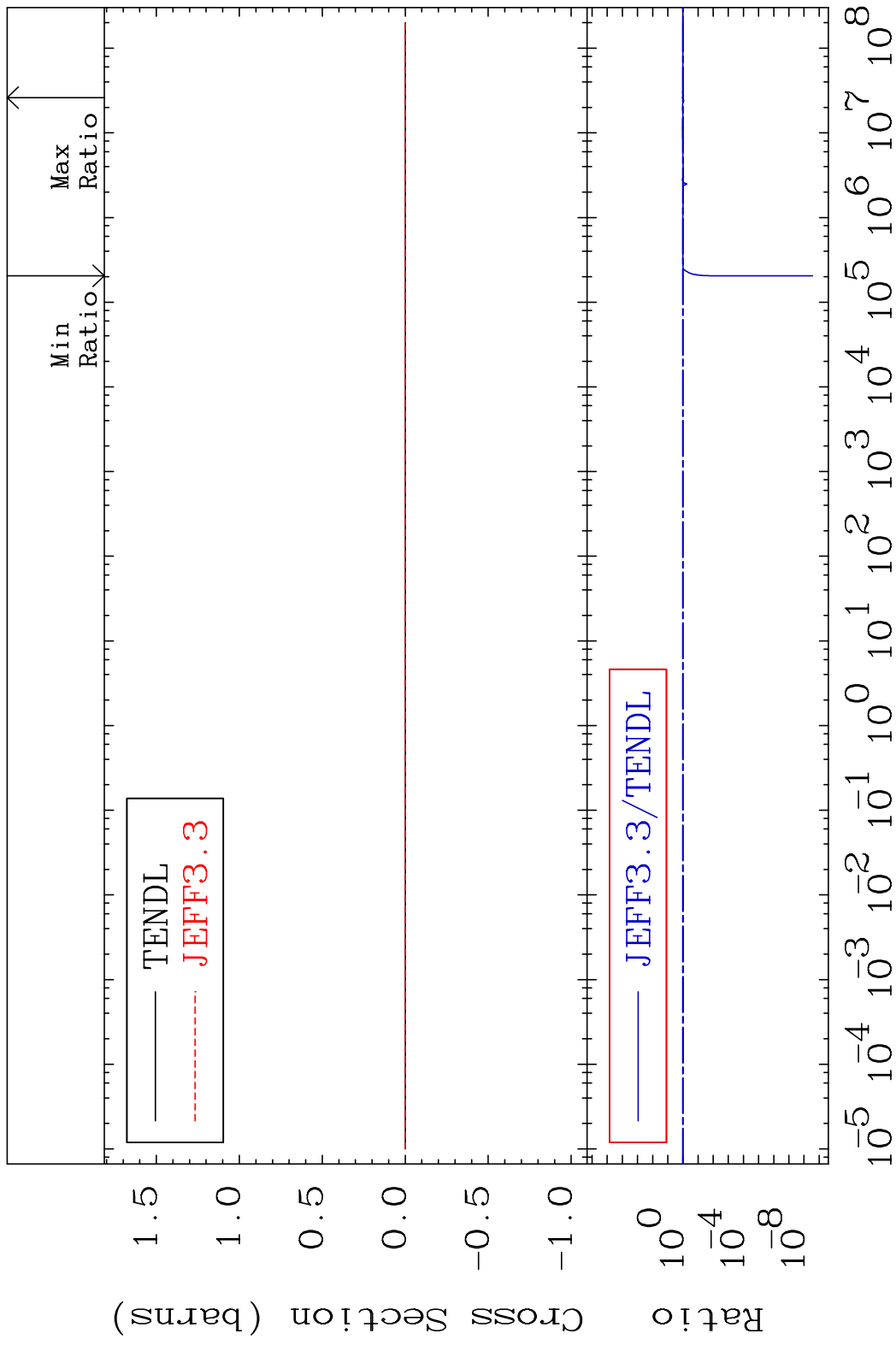
MAT 3928 Kerma non-elastic (all but mt2) 39-Y -90
 Cross Section -100.0 To 9999. %



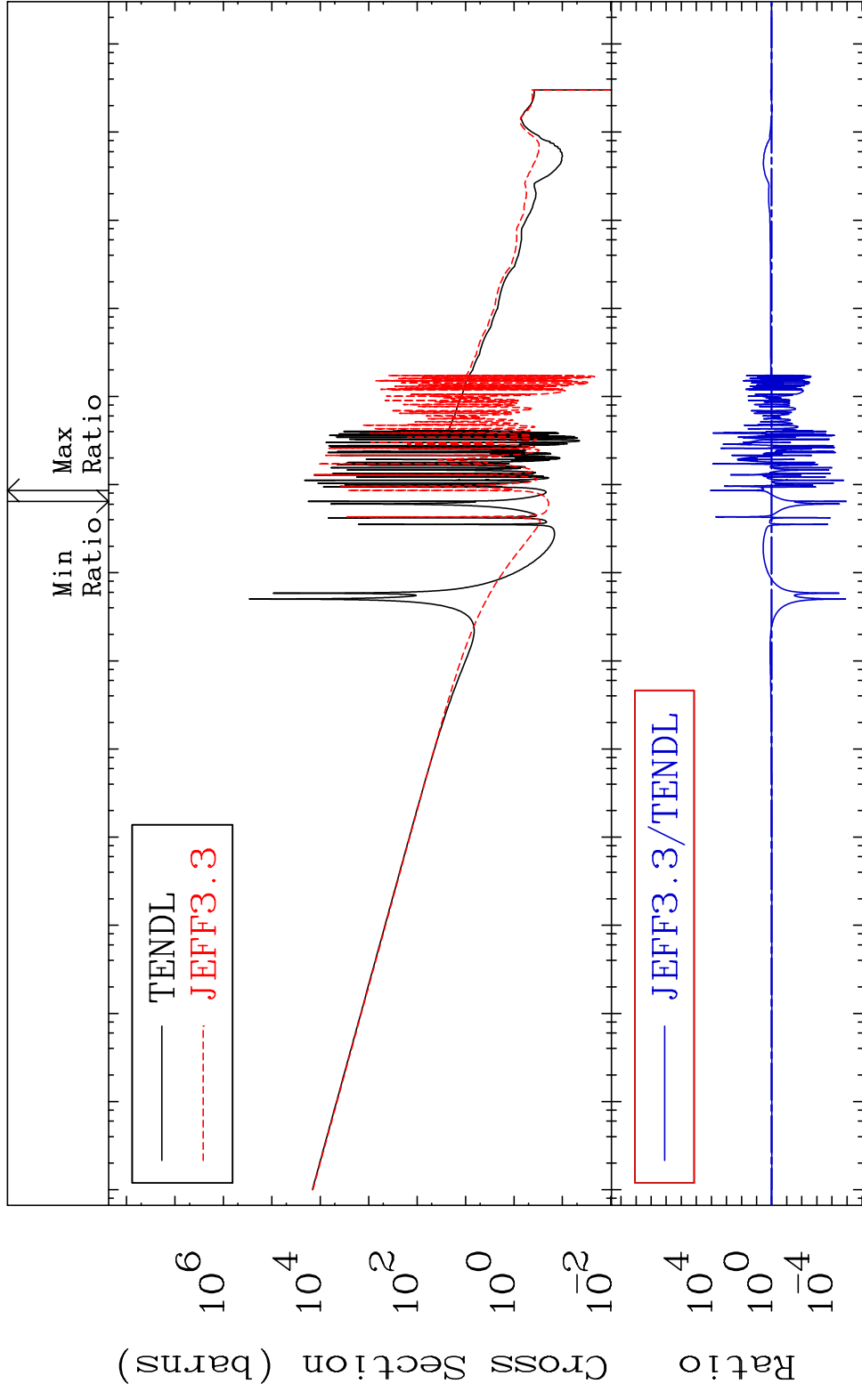
MAT 3928 Kerma inelastic (mt51-91) 39-Y -90
 Cross Section -100.0 To 8.888 %



MAT 3928 Kerma fission (mt18 or mt19-20-21-38) 39-Y -90
 Cross Section -100.0 To 8.888 %

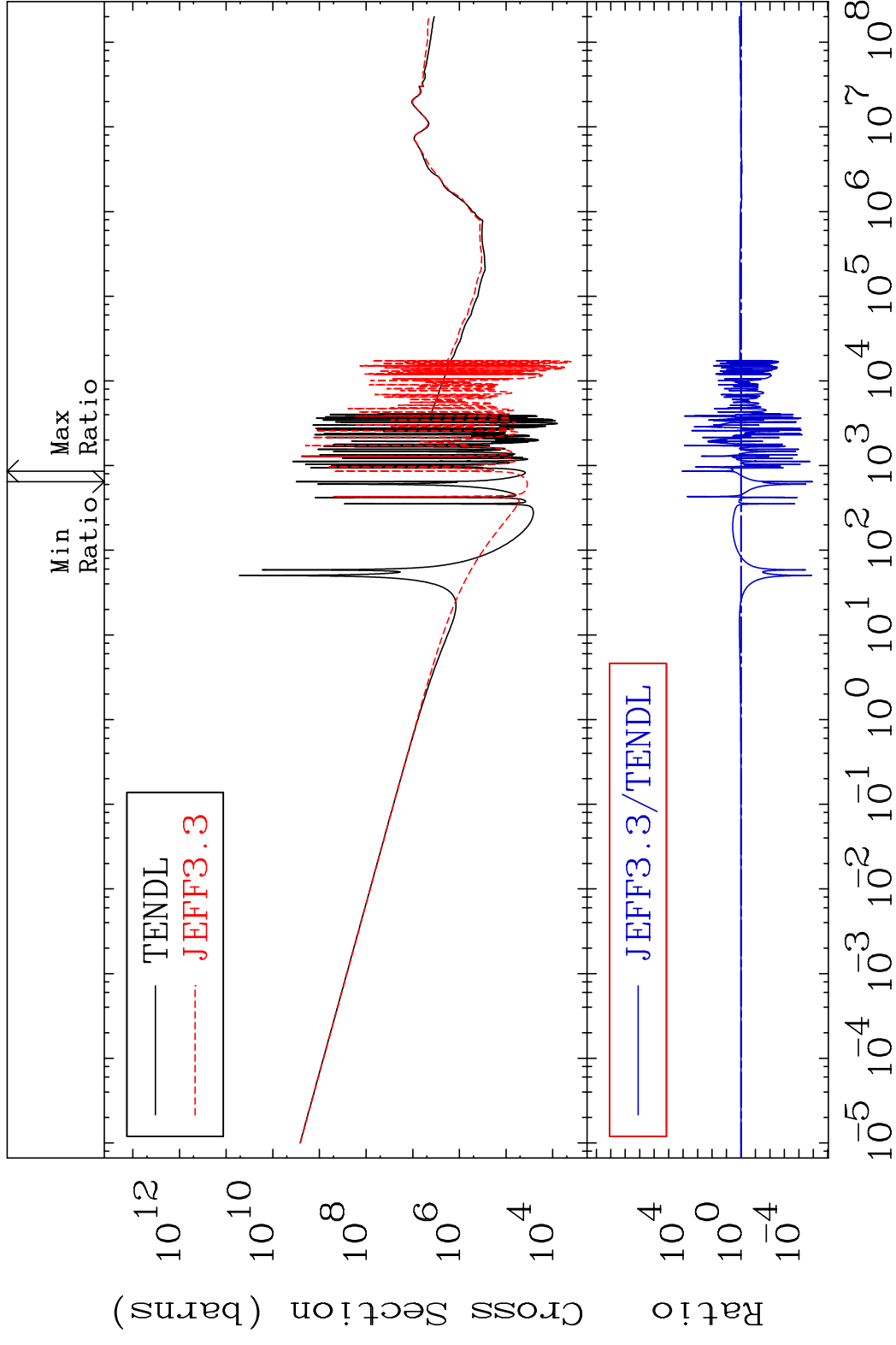


MAT 3928 Kerma capture (mt102) 39-Y -90
 Cross Section -100.0 To 9999. %

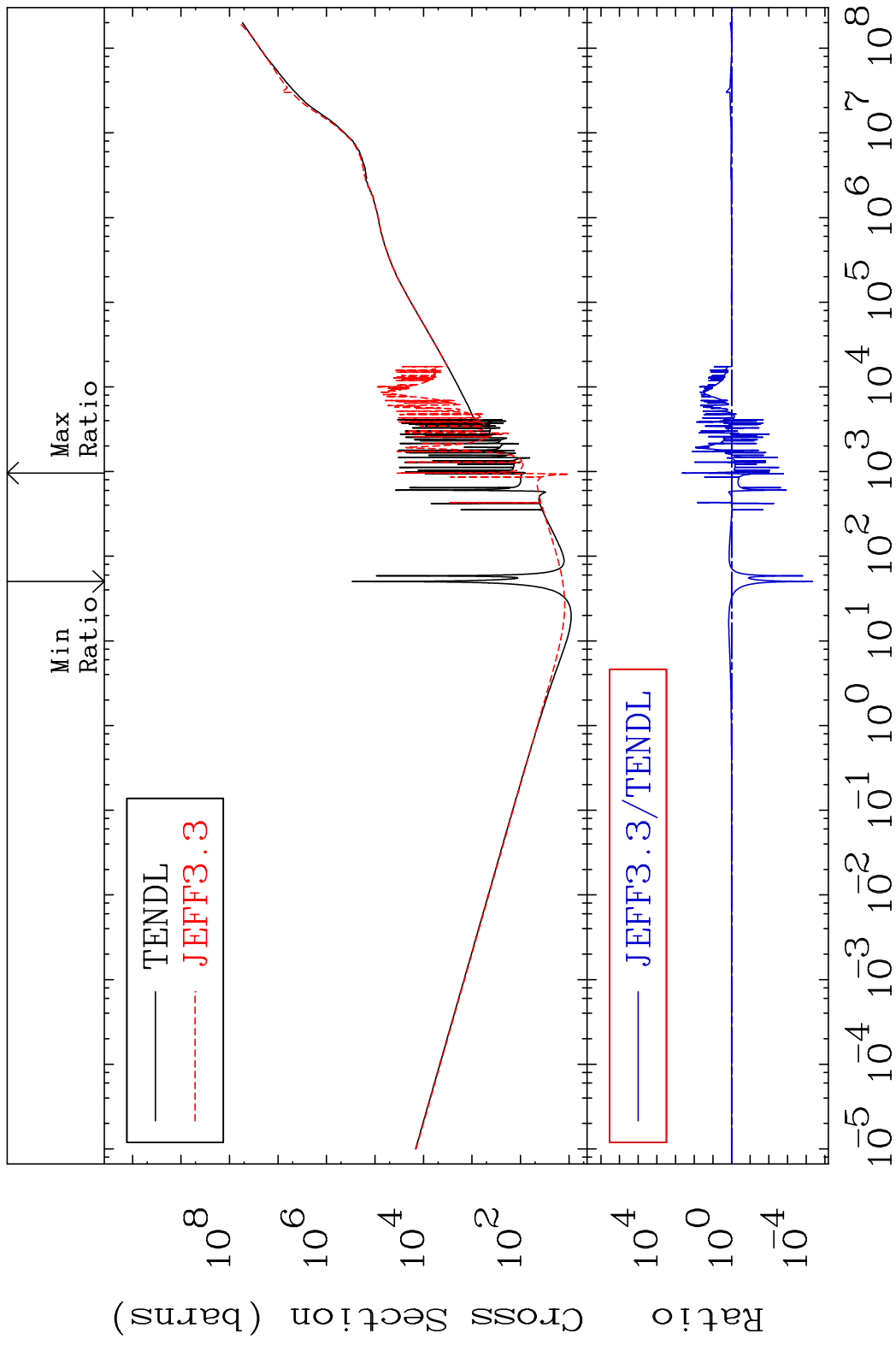


Ratio
 10⁴
 10⁰
 10⁻⁴
 10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸
 Incident Energy (eV) 39-Y -90

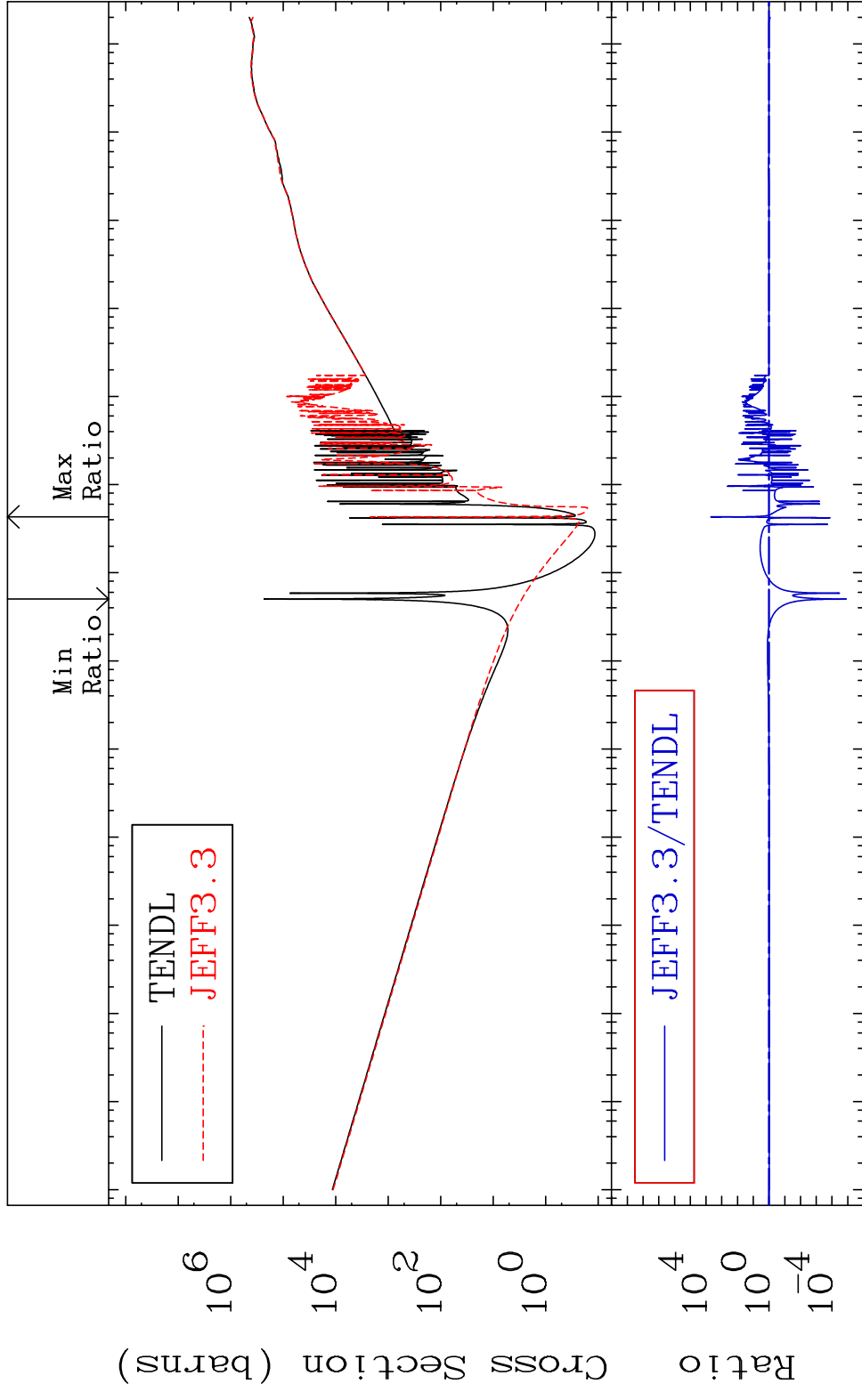
MAT 3928 Total photon (eV-barns) 39-Y -90
 Cross Section -100.0 To 9999. %



MAT 3928 Total kinematic kerma (high limit) 39-Y -90
 Cross Section -100.0 To 9999. %



MAT 3928 Dpa total (eV-barns) 39-Y -90
 Cross Section -100.0 To 9999. %

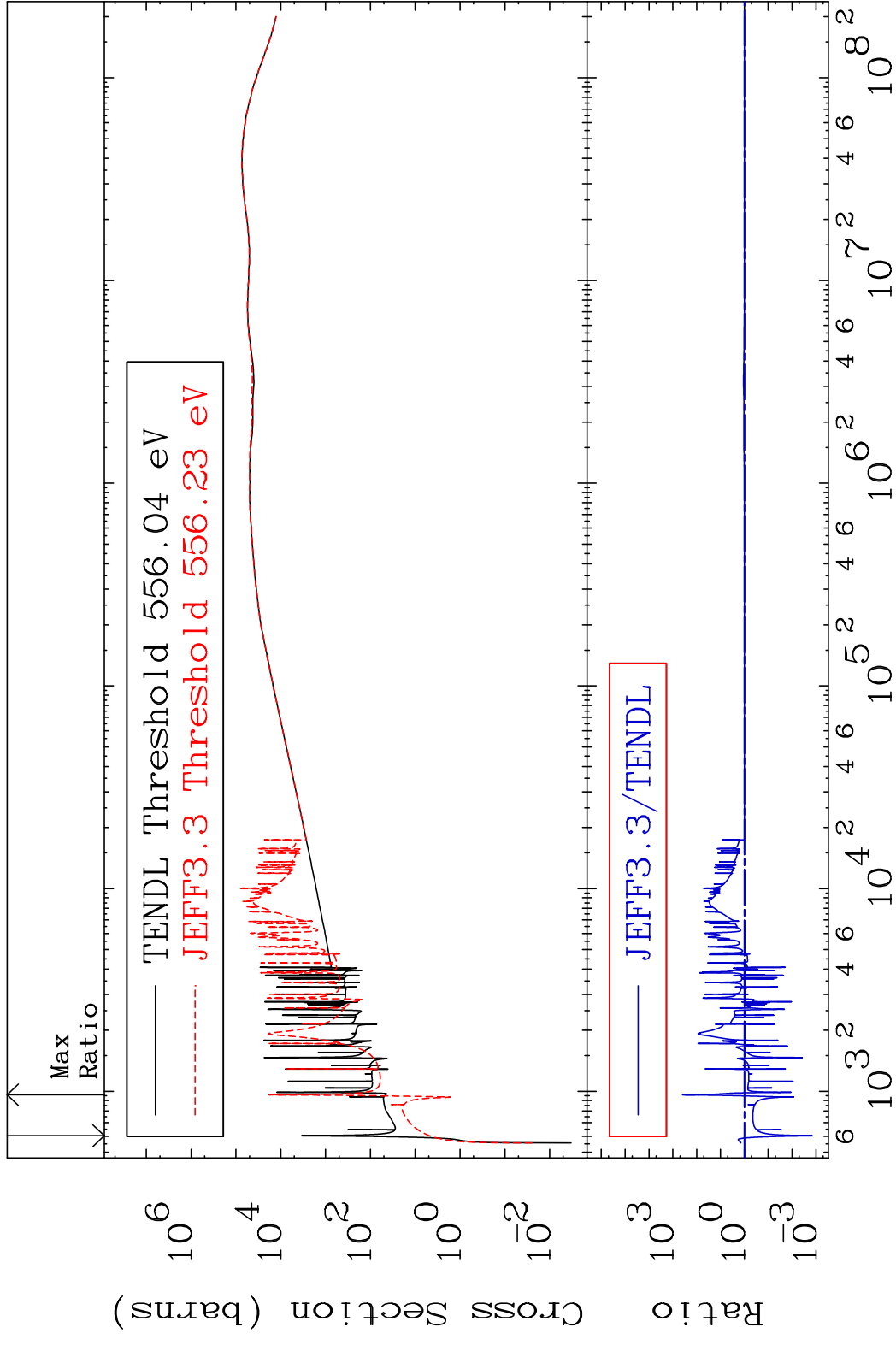


MAT 3928

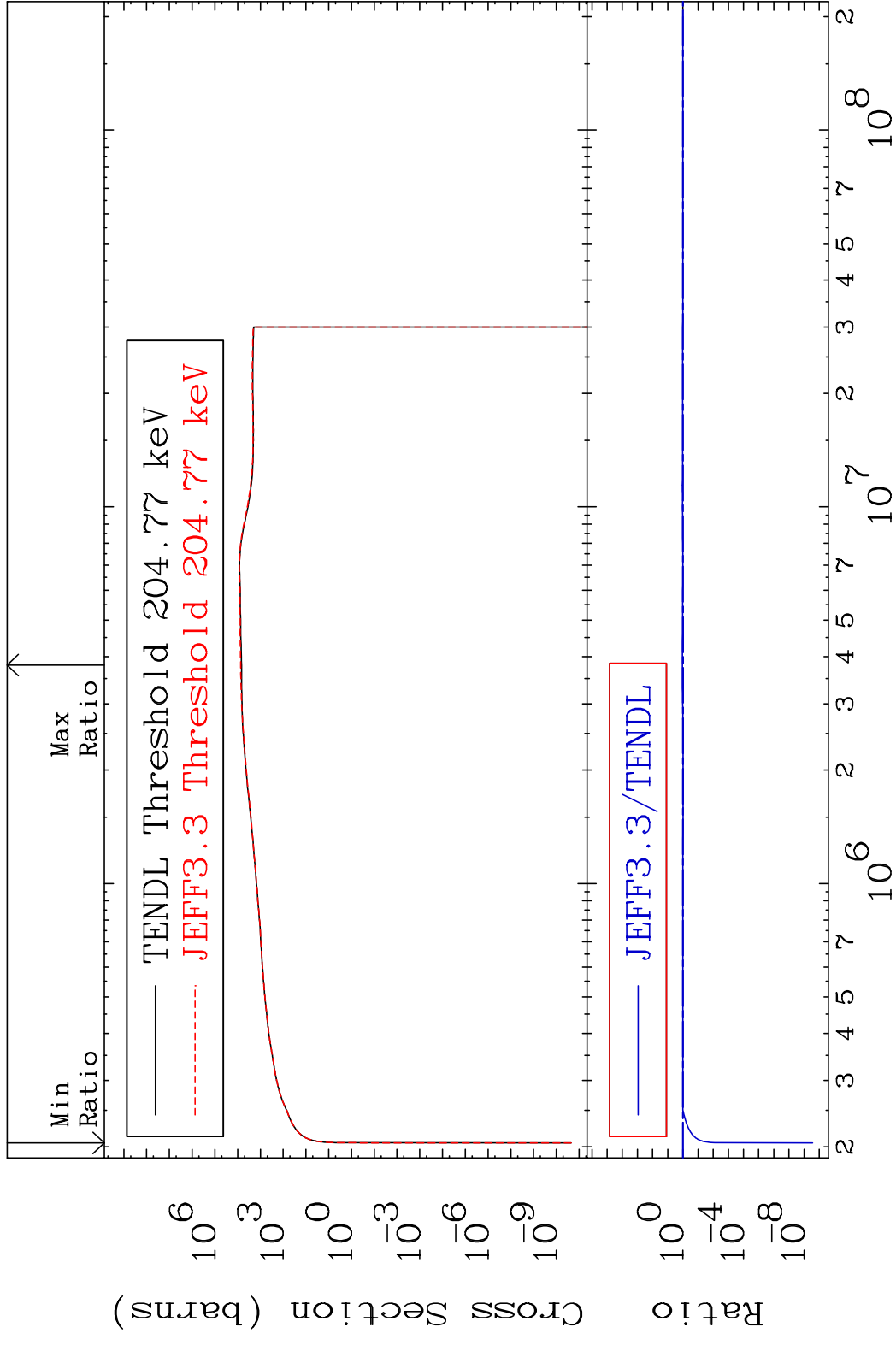
Dpa elastic (mt2)

39-Y -90

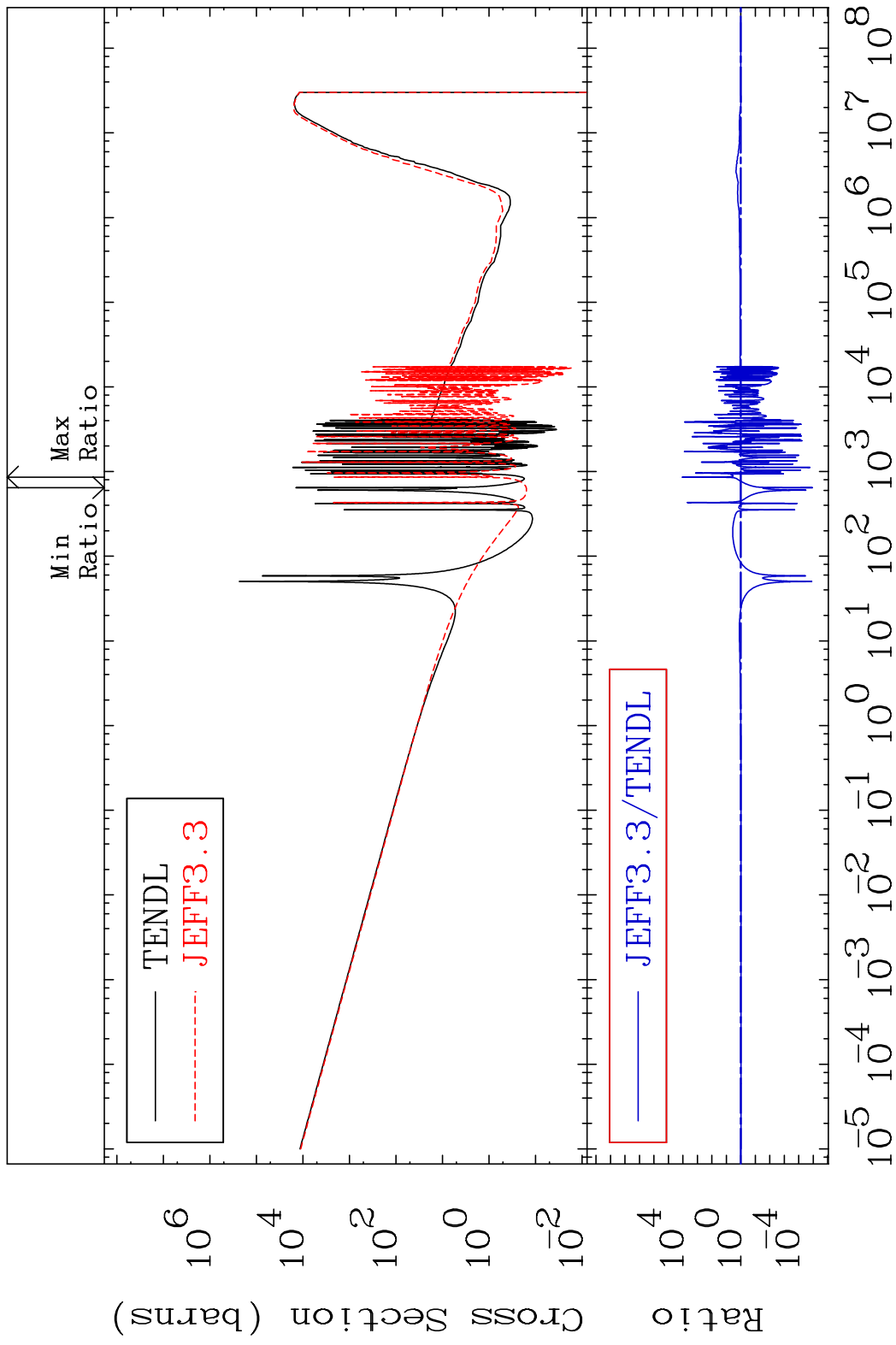
Cross Section -99.86 To 9999. %



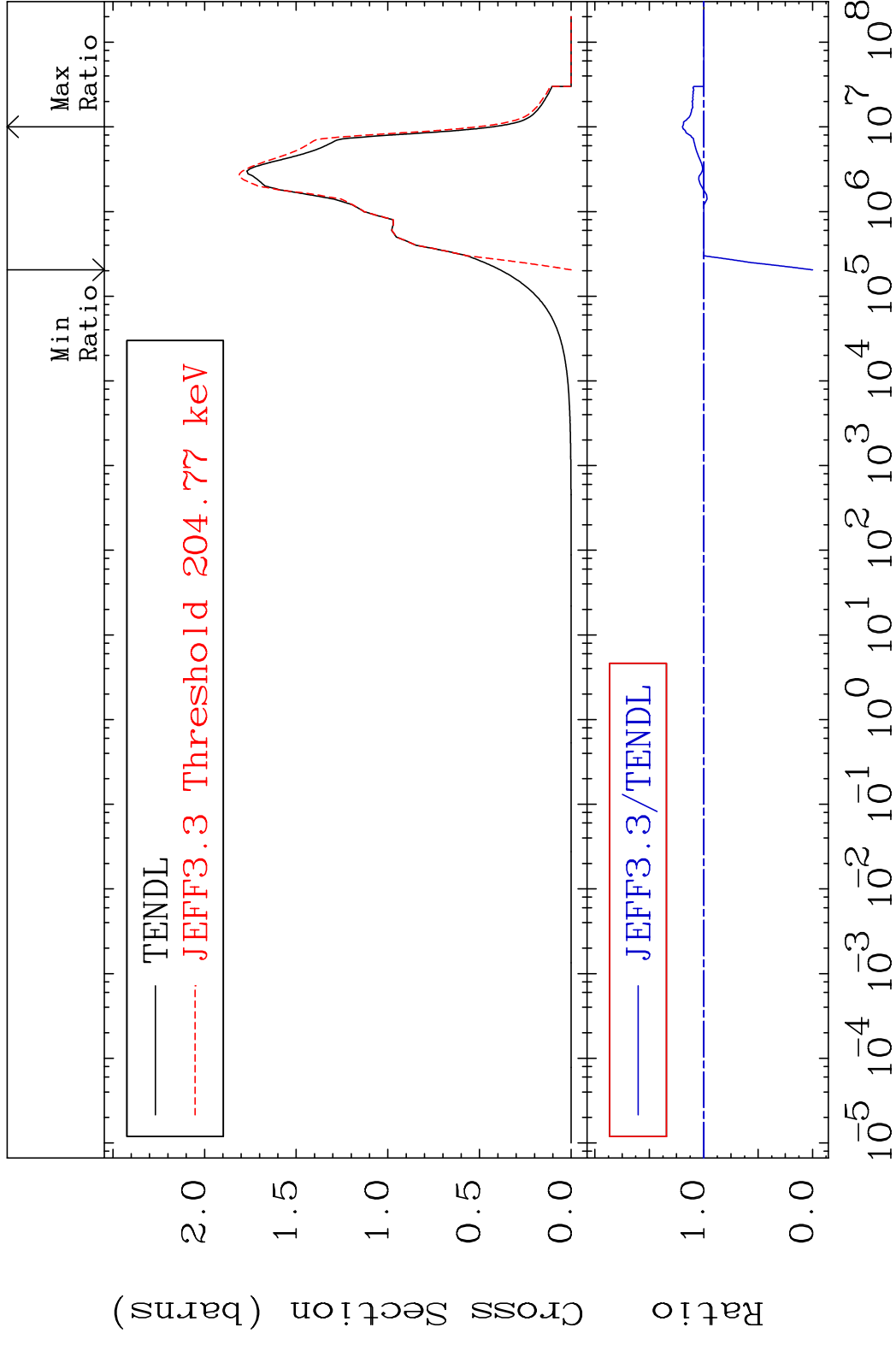
MAT 3928 Dpa inelastic (mt51-91) 39-Y -90
 Cross Section -100.0 To 8.614 %



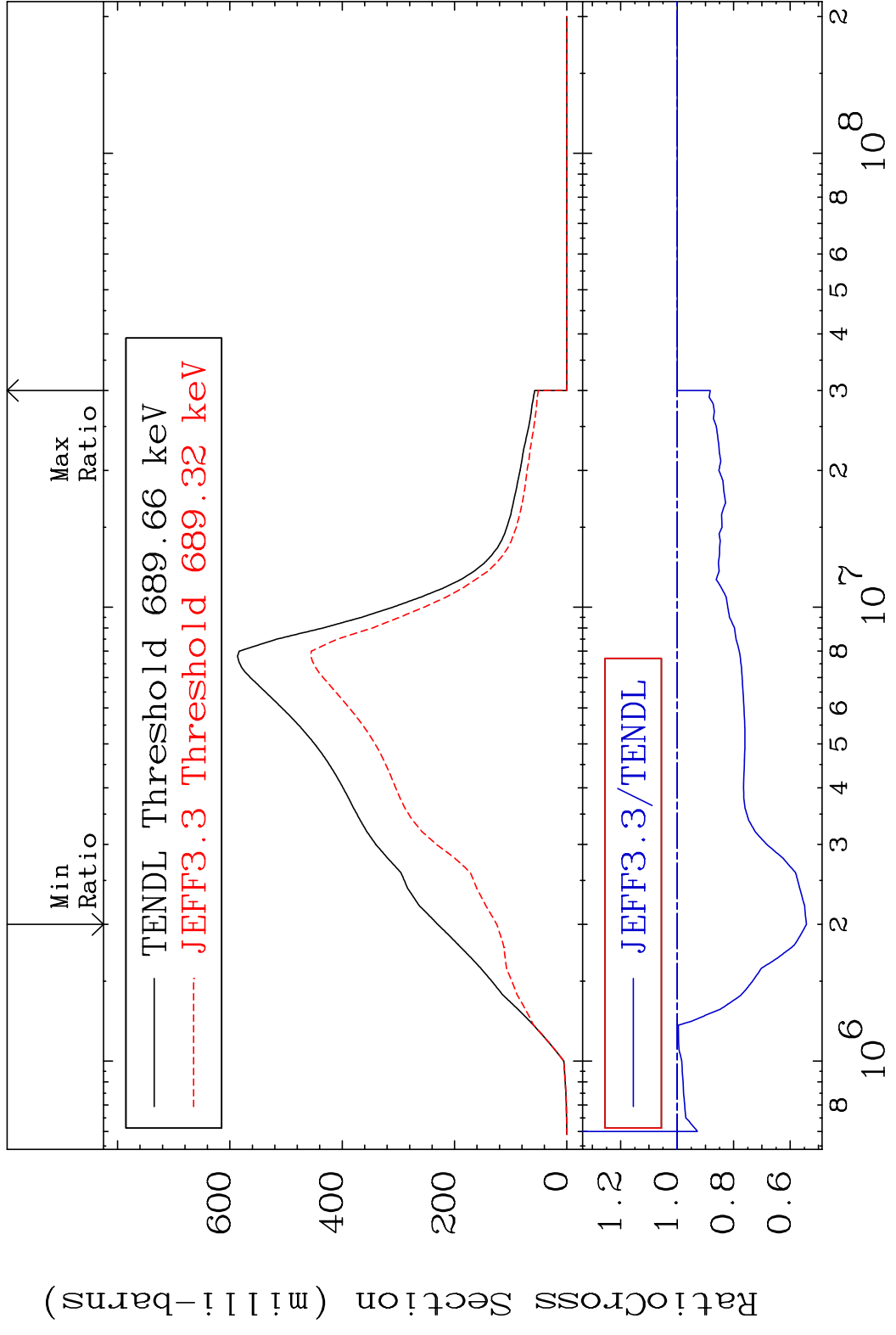
MAT 3928 Dpa disappearance (mt102 -120) 39-Y -90
 Cross Section -100.0 To 9999. %



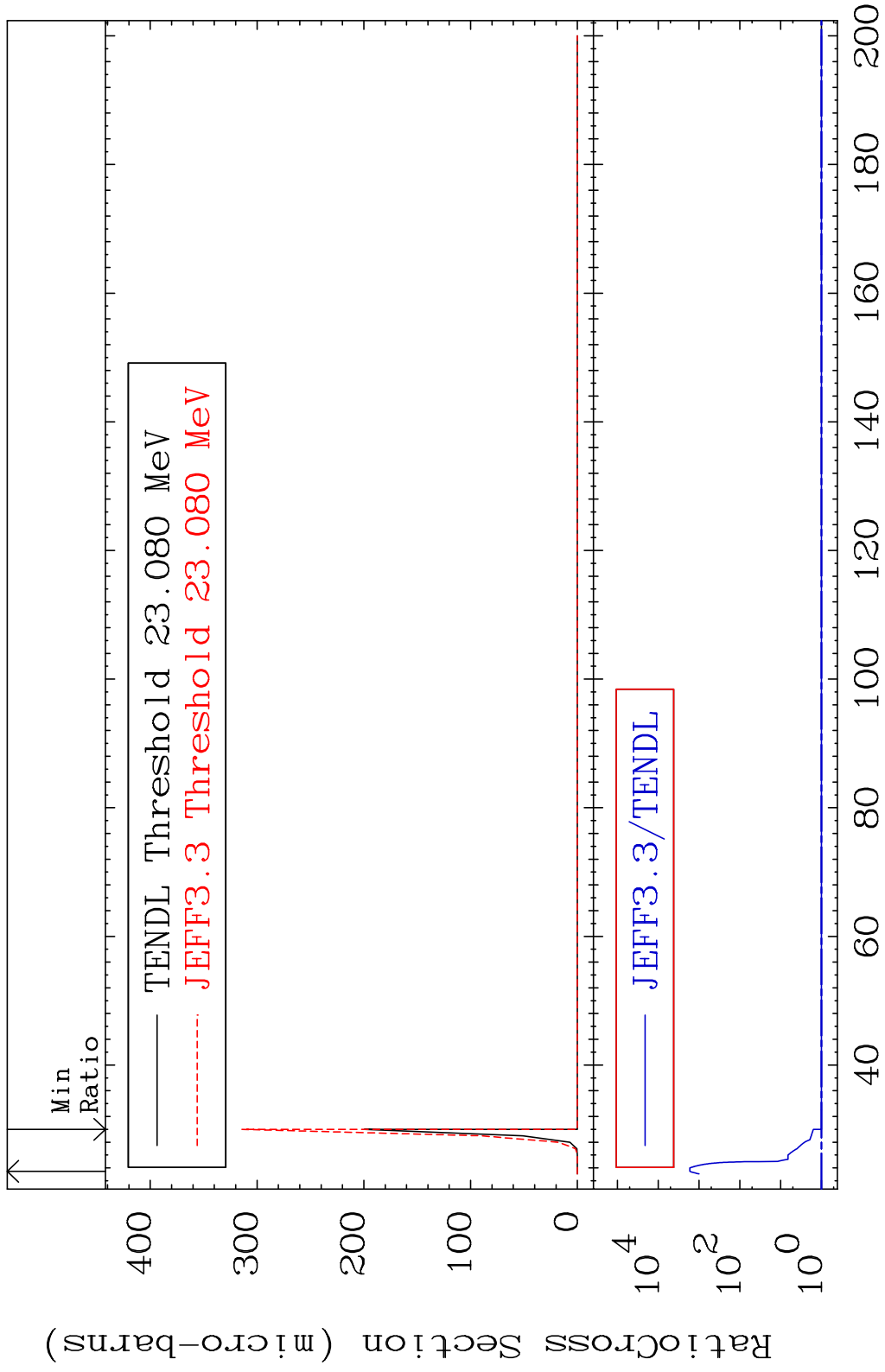
MAT 3928 Inelastic:39-Y -90g 39-Y -90
 Radionuclide Production Cross Section 180.01 dth 19.64 %



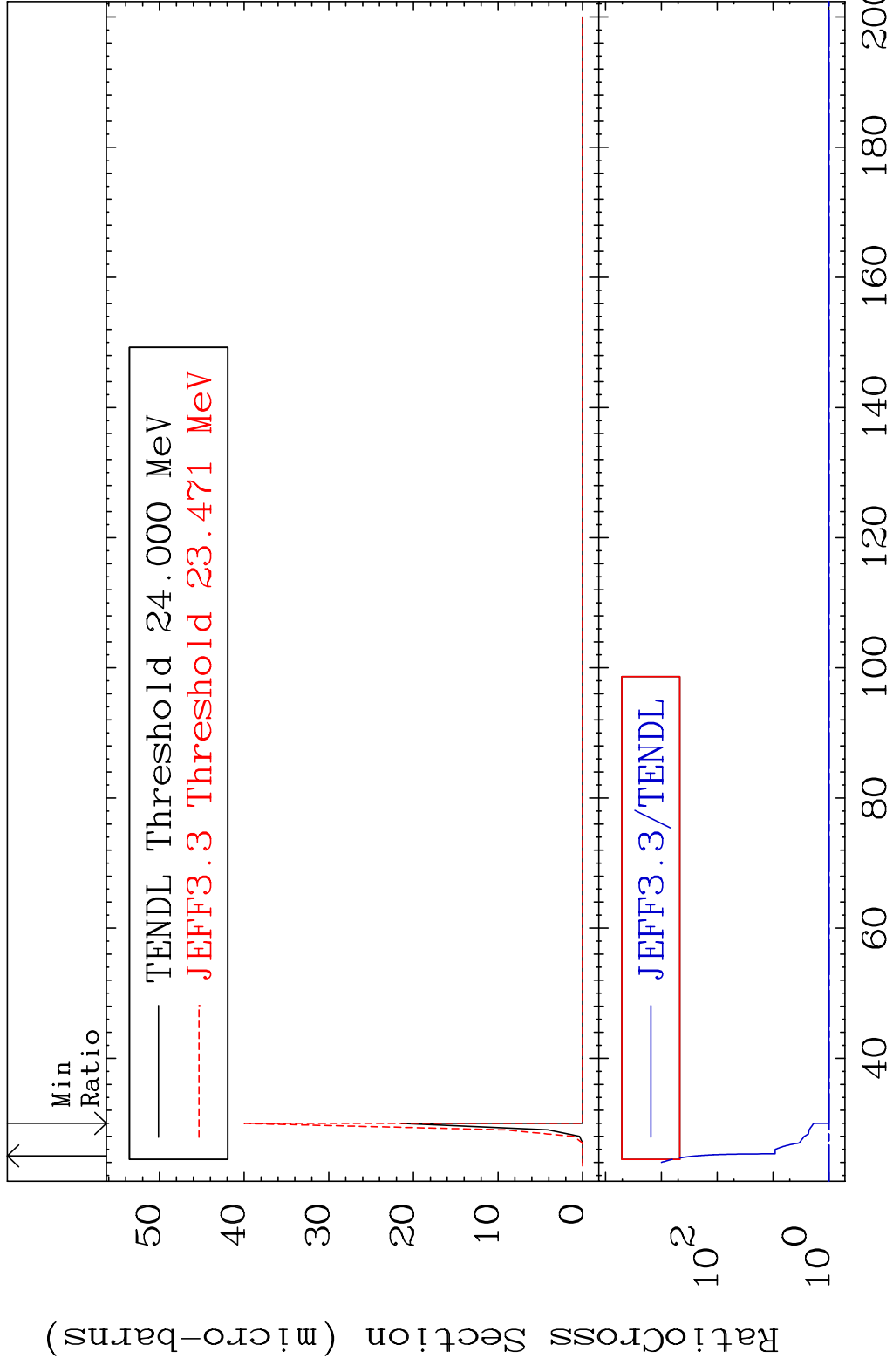
77 Incident Energy (eV) 39-Y -90



MAT 3928 (n,2n) d:38-Sr-87g 39-Y -90
 Radionuclide Production Cross Section 9999. %

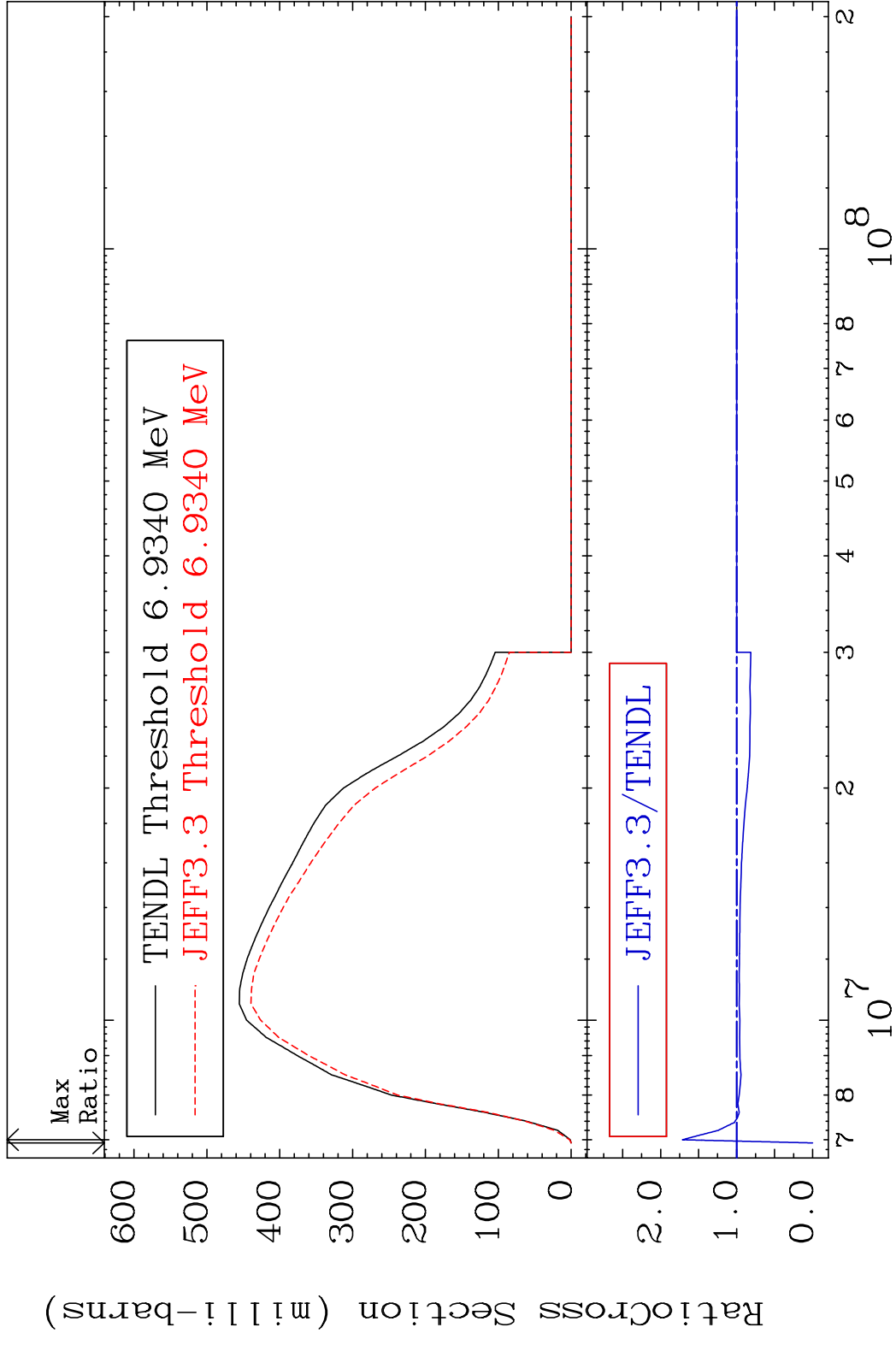


MAT 3928 (n,2n) d:38-Sr-87m1 39-Y -90
 Radionuclide Production Cross Section 9999. %

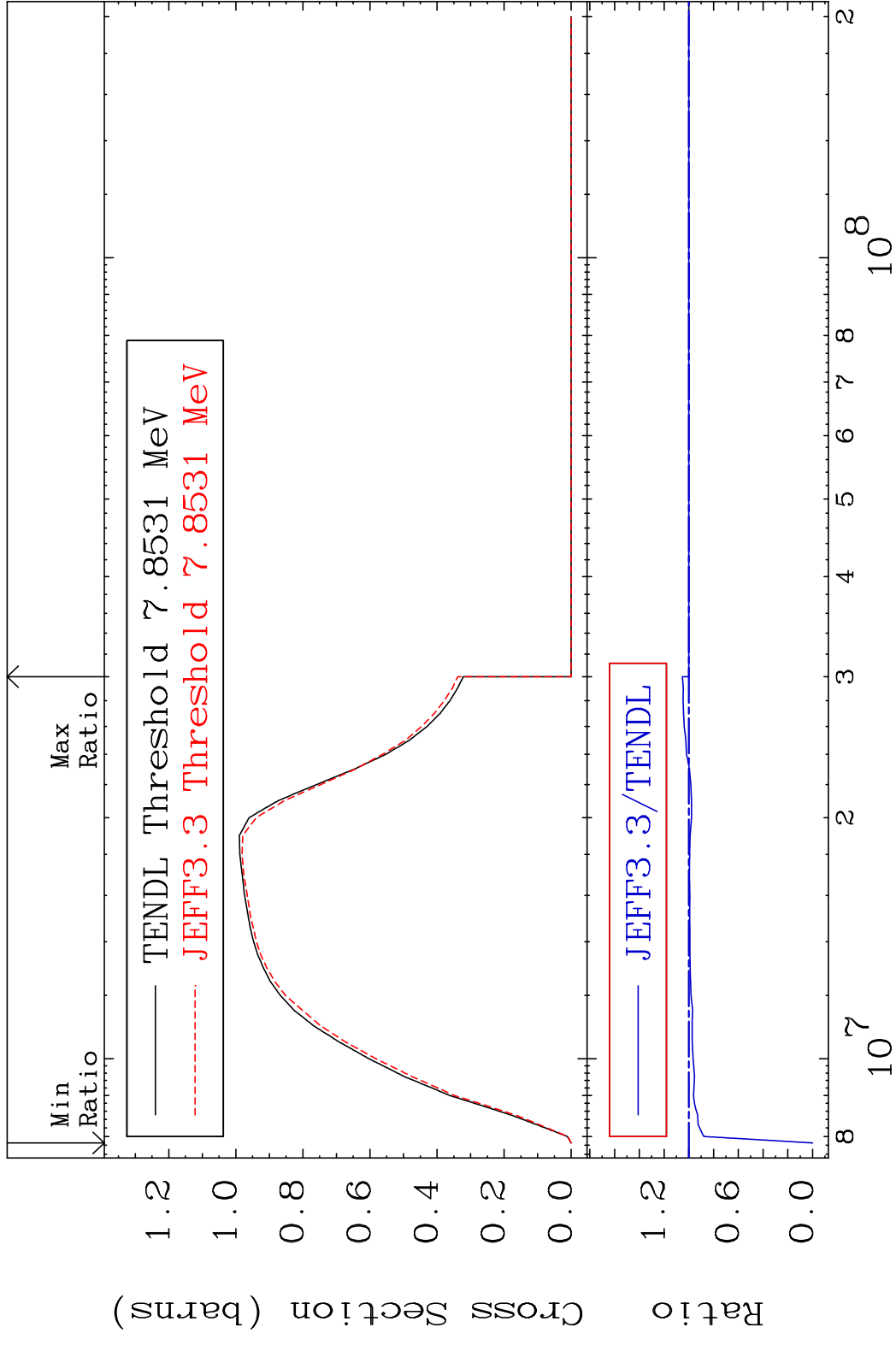


80 Incident Energy (MeV) 39-Y -90

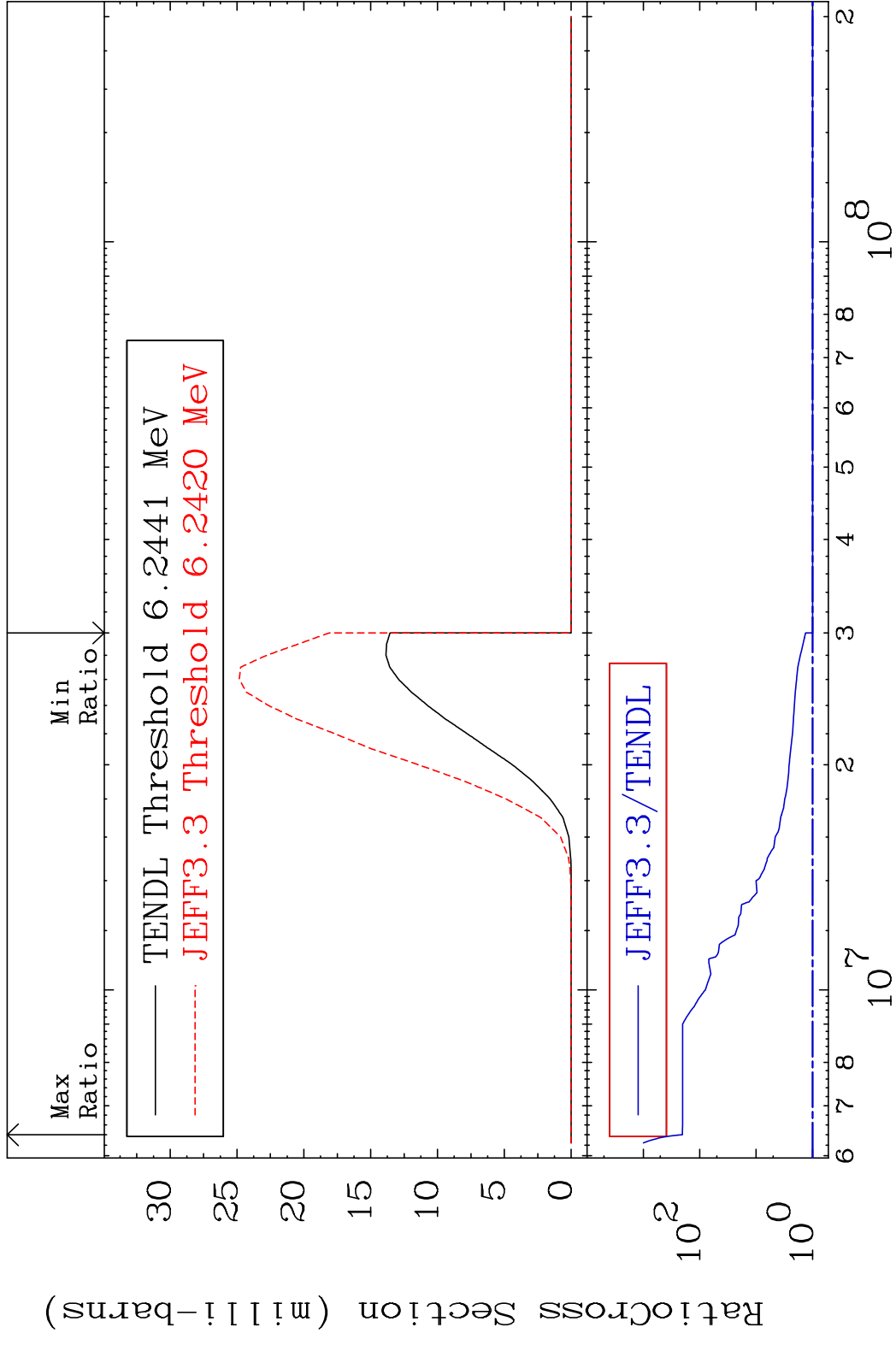
MAT 3928 (n,2n):39-Y -89g 39-Y -90
 Radionuclide Production Cross Section 180.01 dth 71.43 %

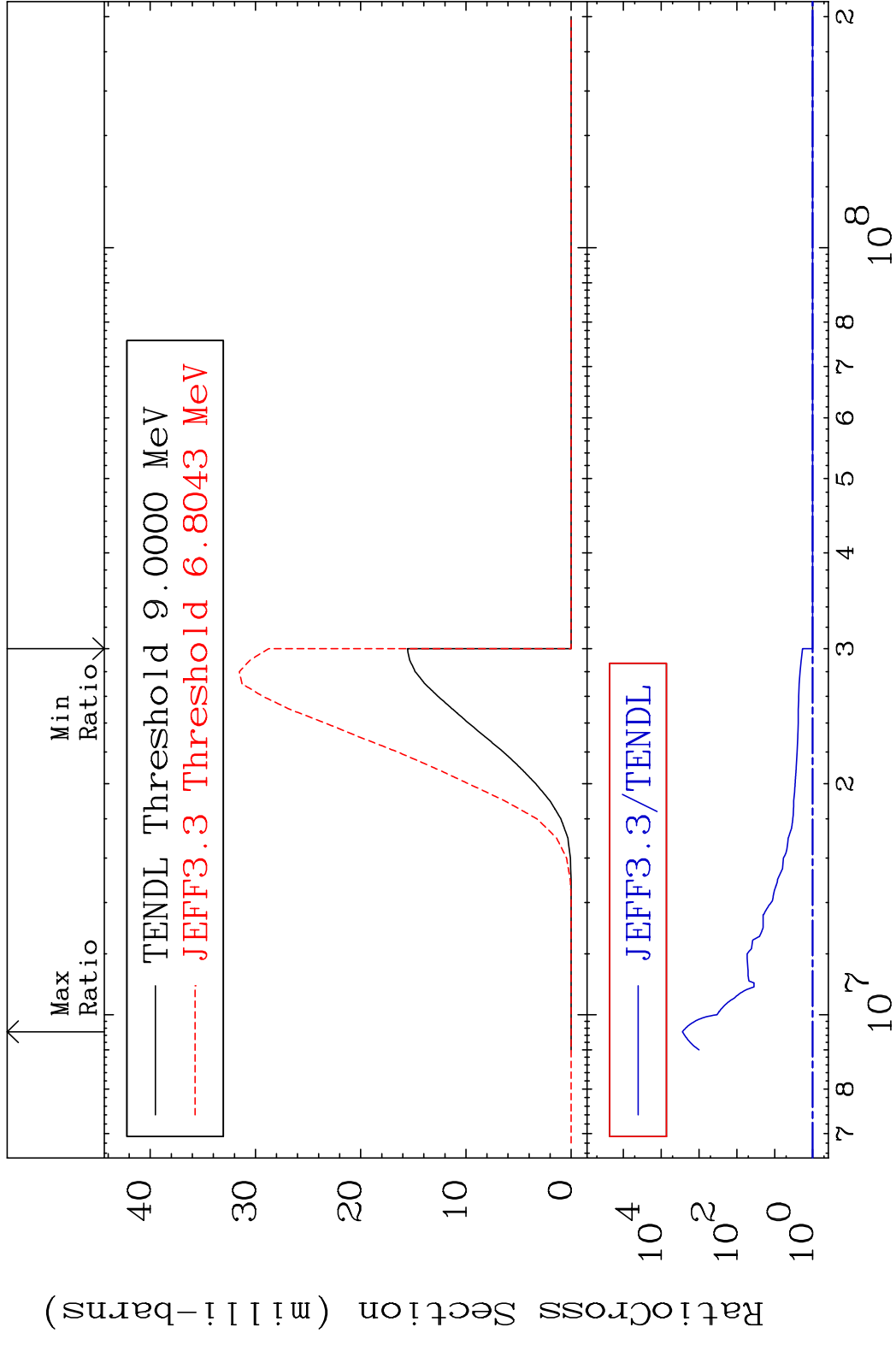


MAT 3928 (n,2n):39-Y -89m1 39-Y -90
 Radionuclide Production Cross Section 180.01 d10 5.208 %

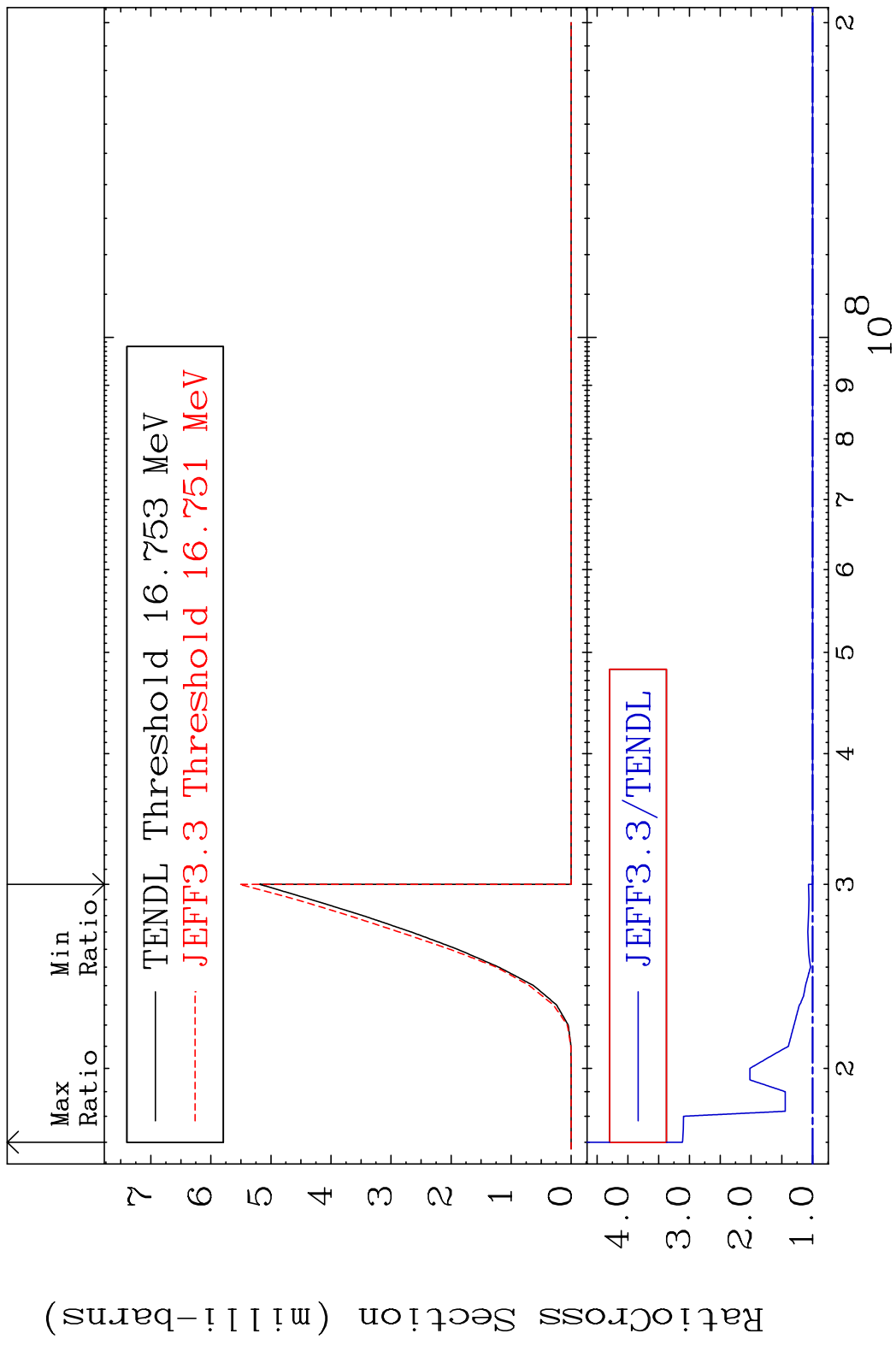


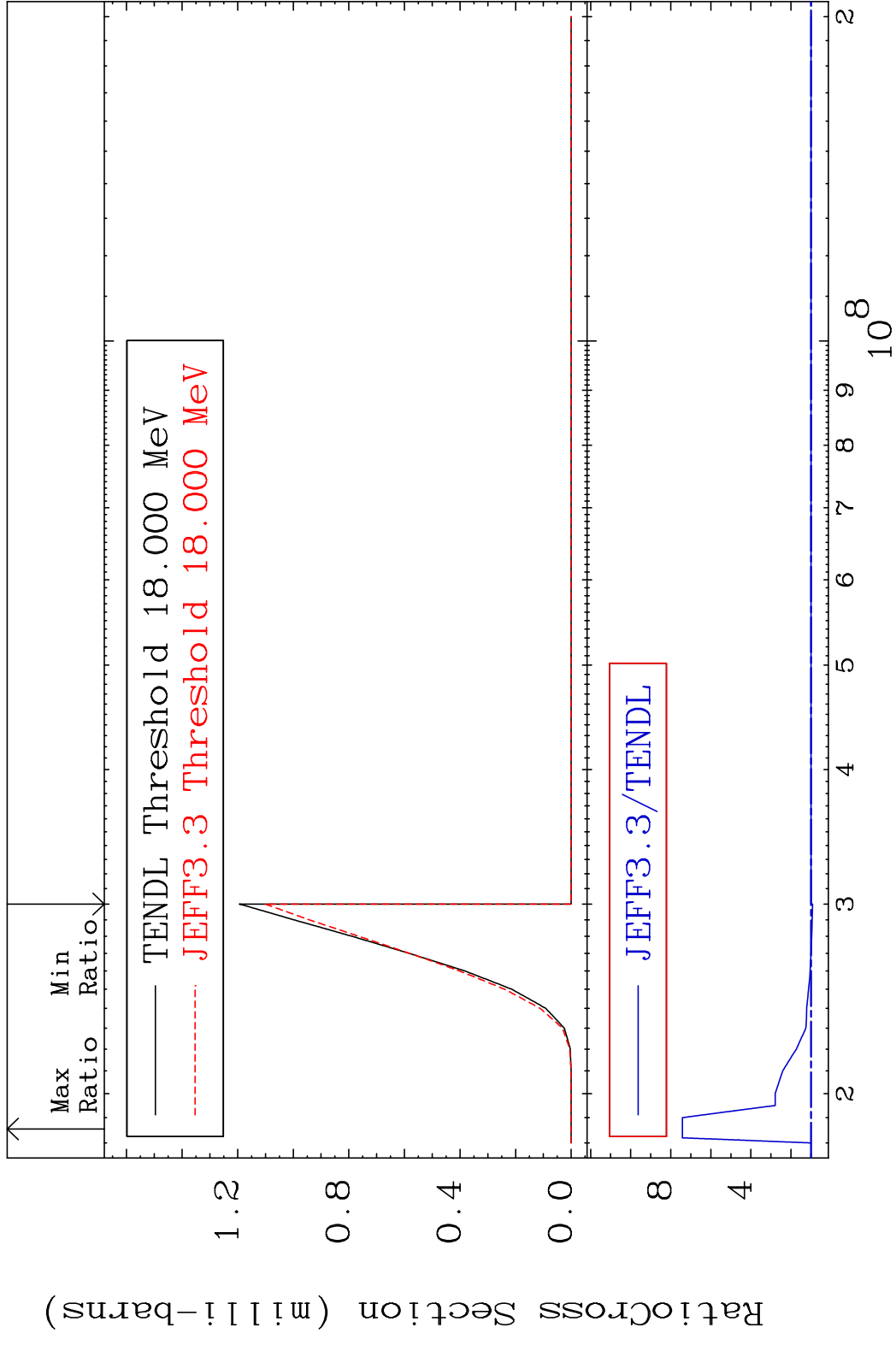
MAT 3928 (n, n') α :37-Rb-86g 39-Y -90
 Radionuclide Production Cross Section 9999. %



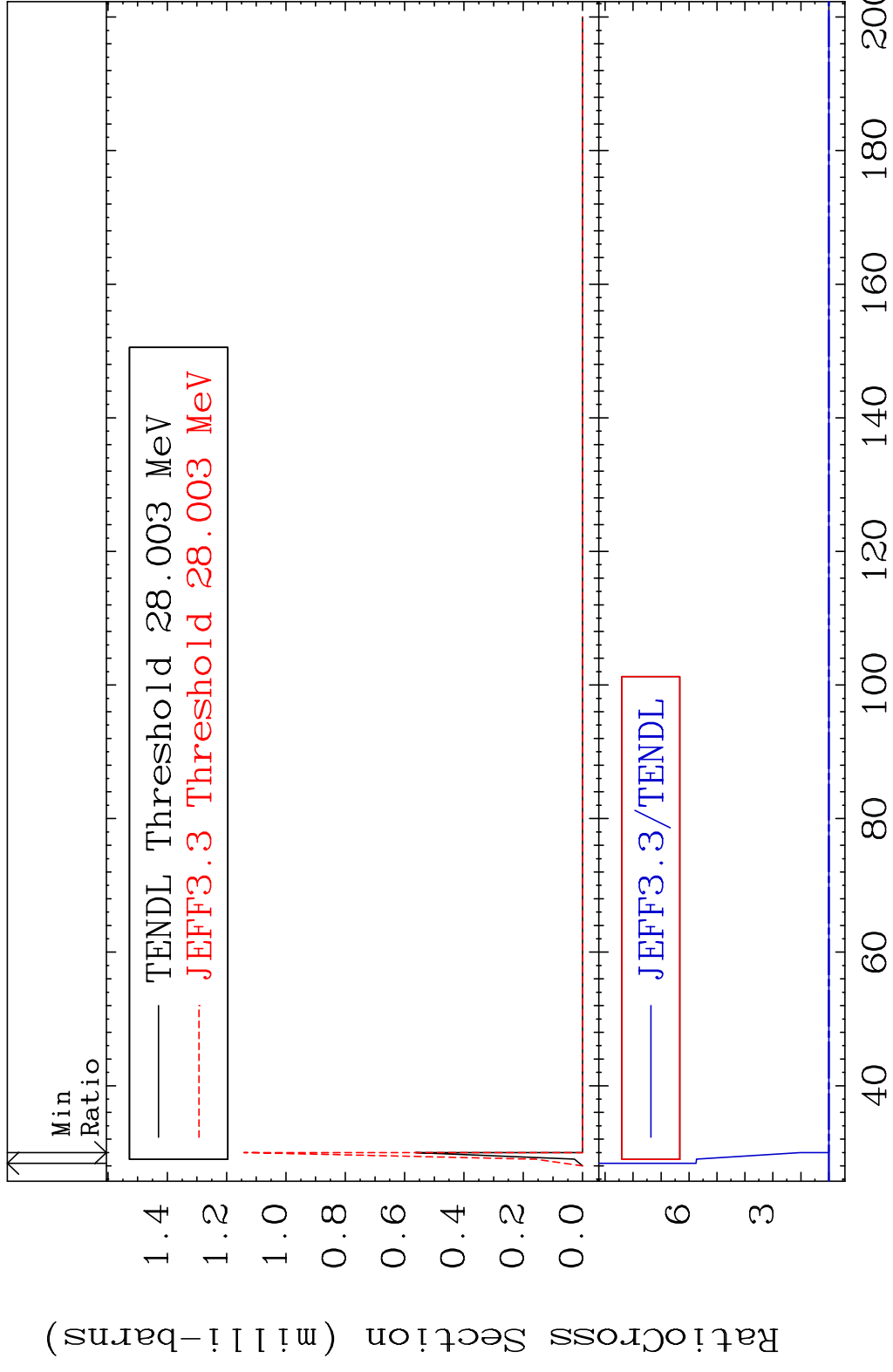


MAT 3928 (n, n') t:38-Sr-87g 39-Y -90
 Radionuclide Production Cross Section 211.5 %

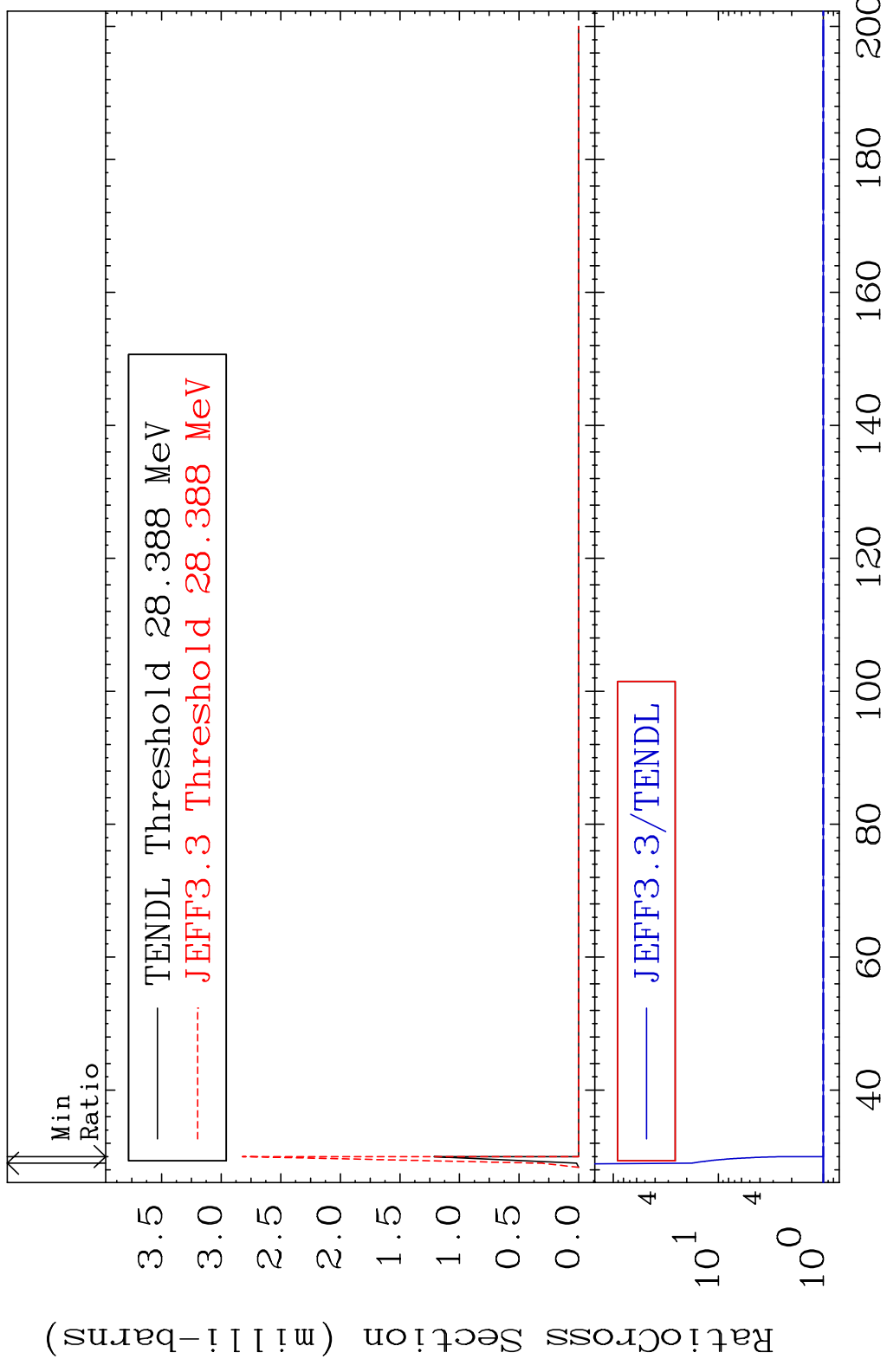




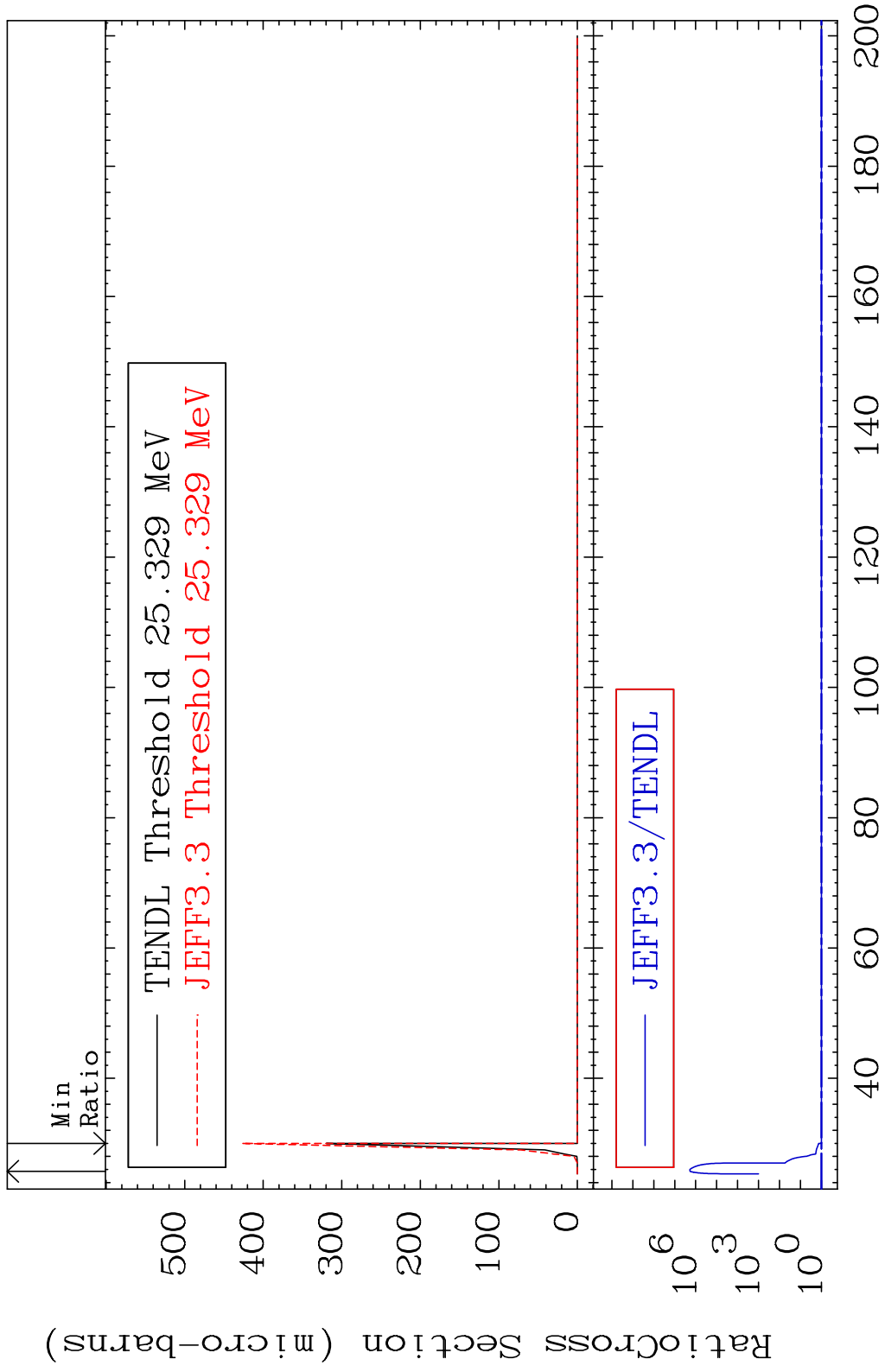
MAT 3928 (n,4n):39-Y -87g 39-Y -90
 Radionuclide Production Cross Section 475.0 %



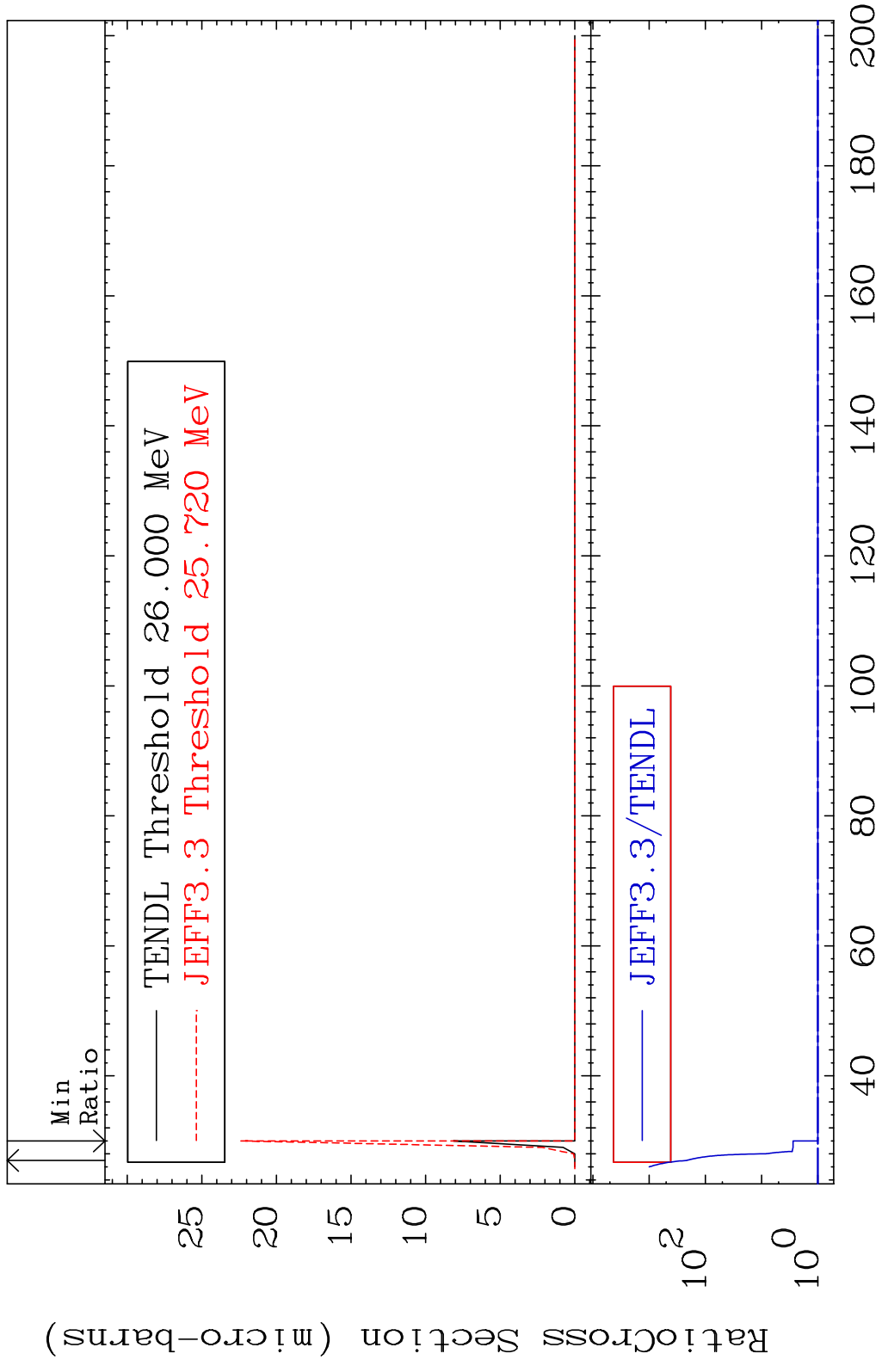
MAT 3928 (n,4n):39-Y -87m1 39-Y -90
 Radionuclide Production Cross Section 1707. %



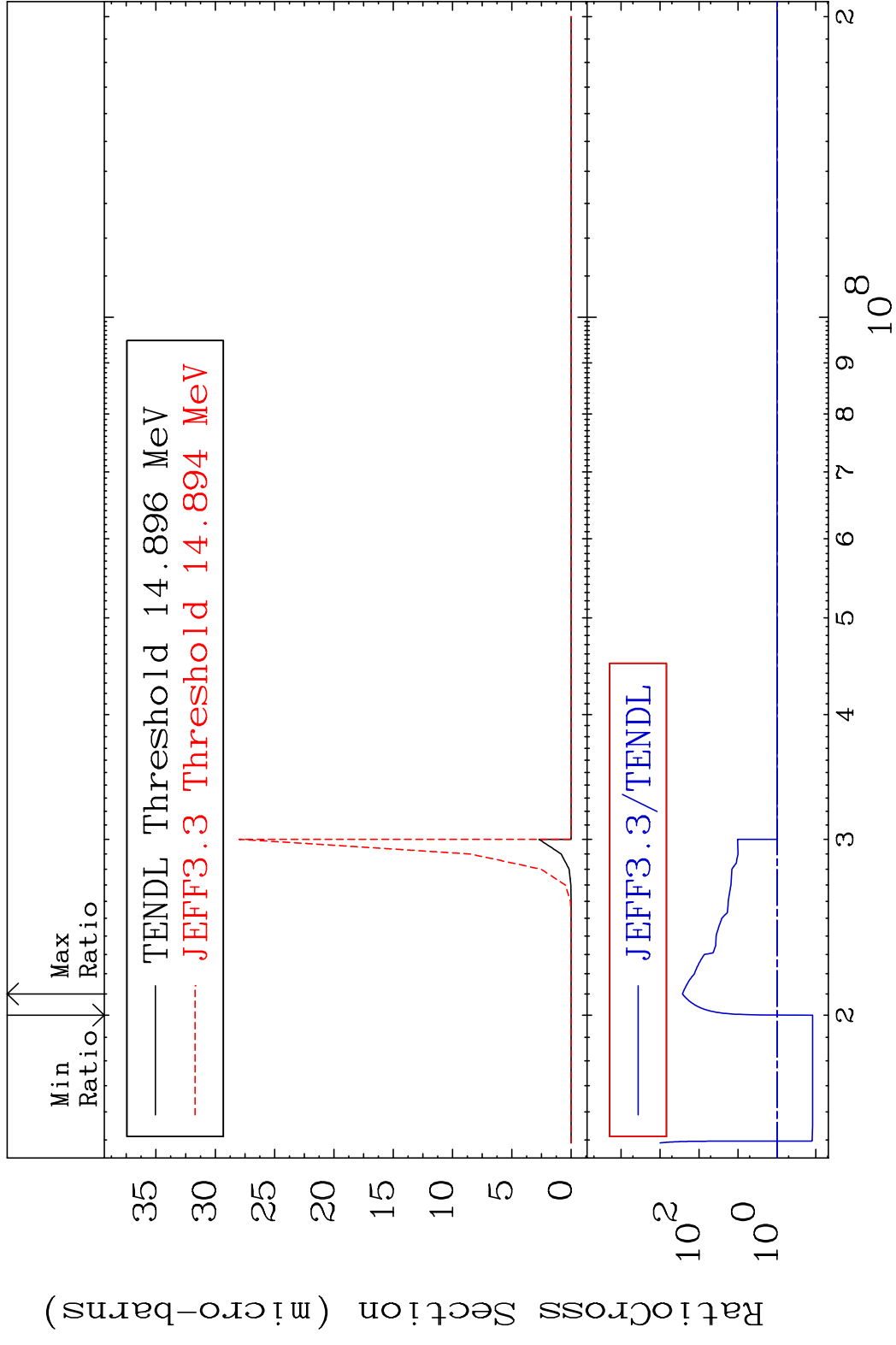
MAT 3928 (n,3n) p:38-Sr-87g 39-Y -90
 Radionuclide Production Cross Section 9999. %



MAT 3928 (n,3n) p:38-Sr-87m1 39-Y -90
 Radionuclide Production Cross Section 9999. %



90 Incident Energy (MeV) 39-Y -90



MAT 3928 (n, n') p α :36-Kr-85m1 39-Y -90
 Radionuclide Production Cross Section 9999. %

