

Program Complot
(Version 2021-1)

by

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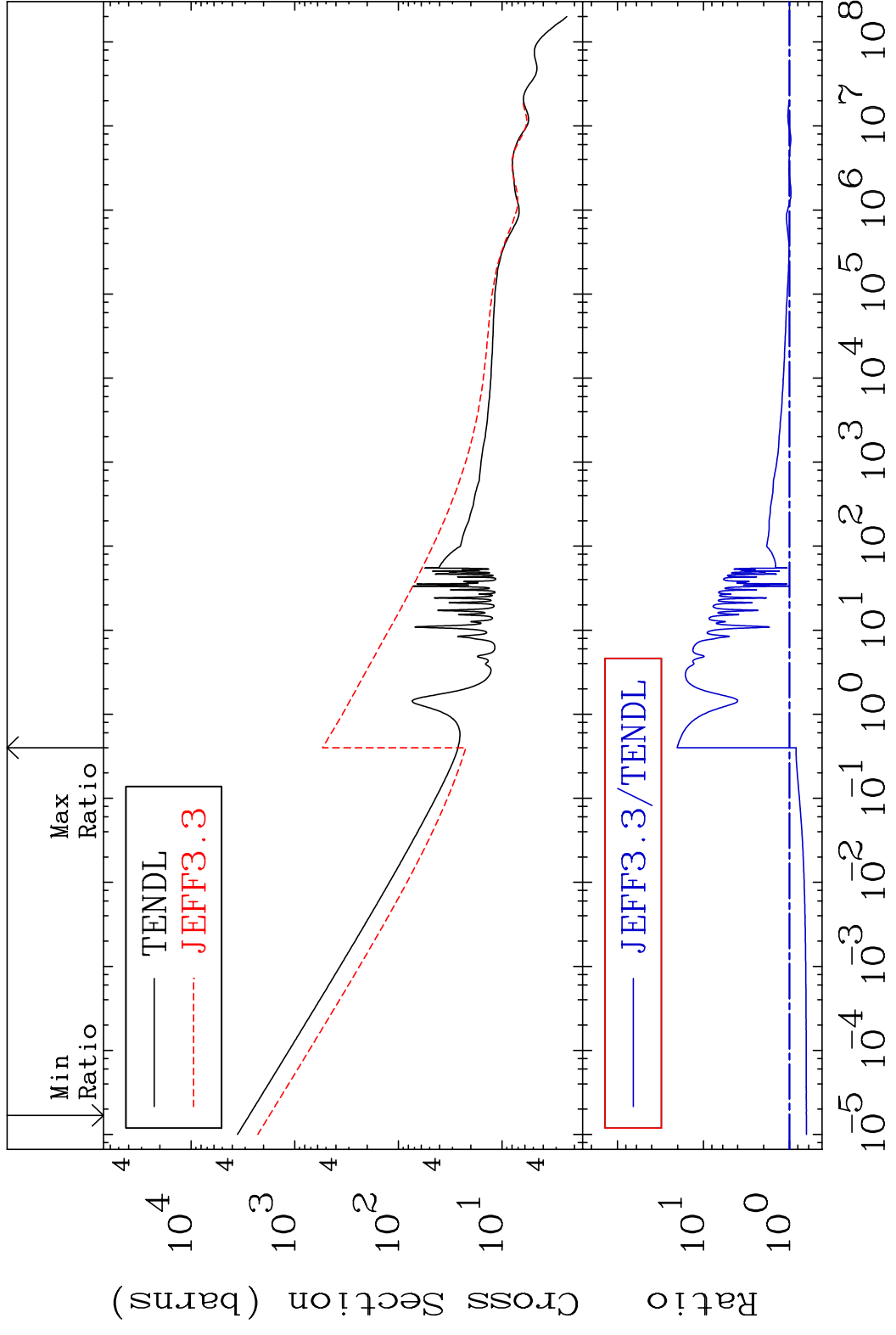
Press Mouse Button to Start

MAT 9352

93-Np-239

Total

Cross Section -36.25 To 1922. %



1

Incident Energy (eV)

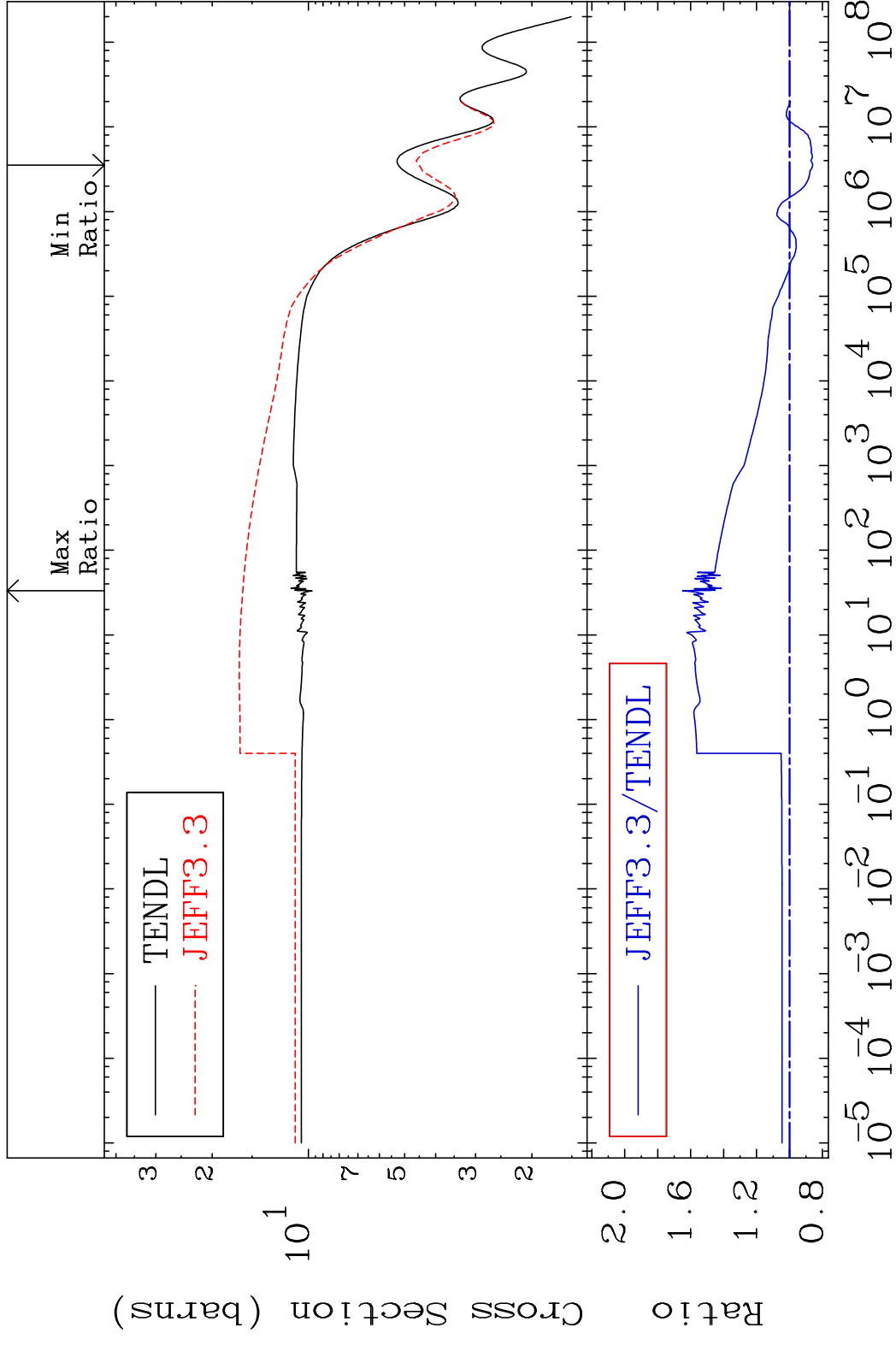
93-Np-239

MAT 9352

Elastic

93-Np-239

Cross Section -13.96 To 65.06 %



2

Incident Energy (eV)

93-Np-239

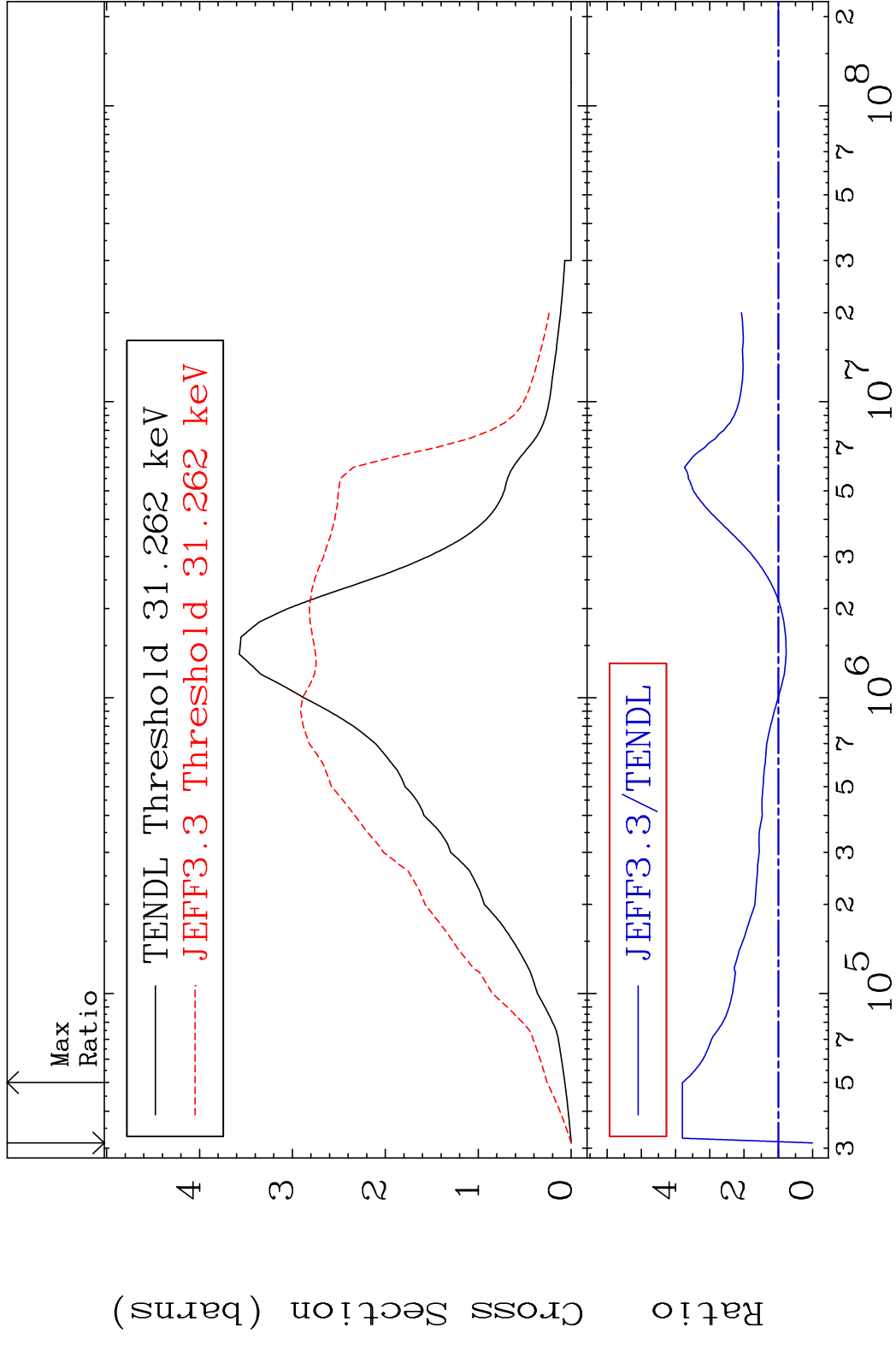
MAT 9352

Inelastic

93-Np-239

Cross Section

-100.0 To 280.2 %



3

Incident Energy (eV)

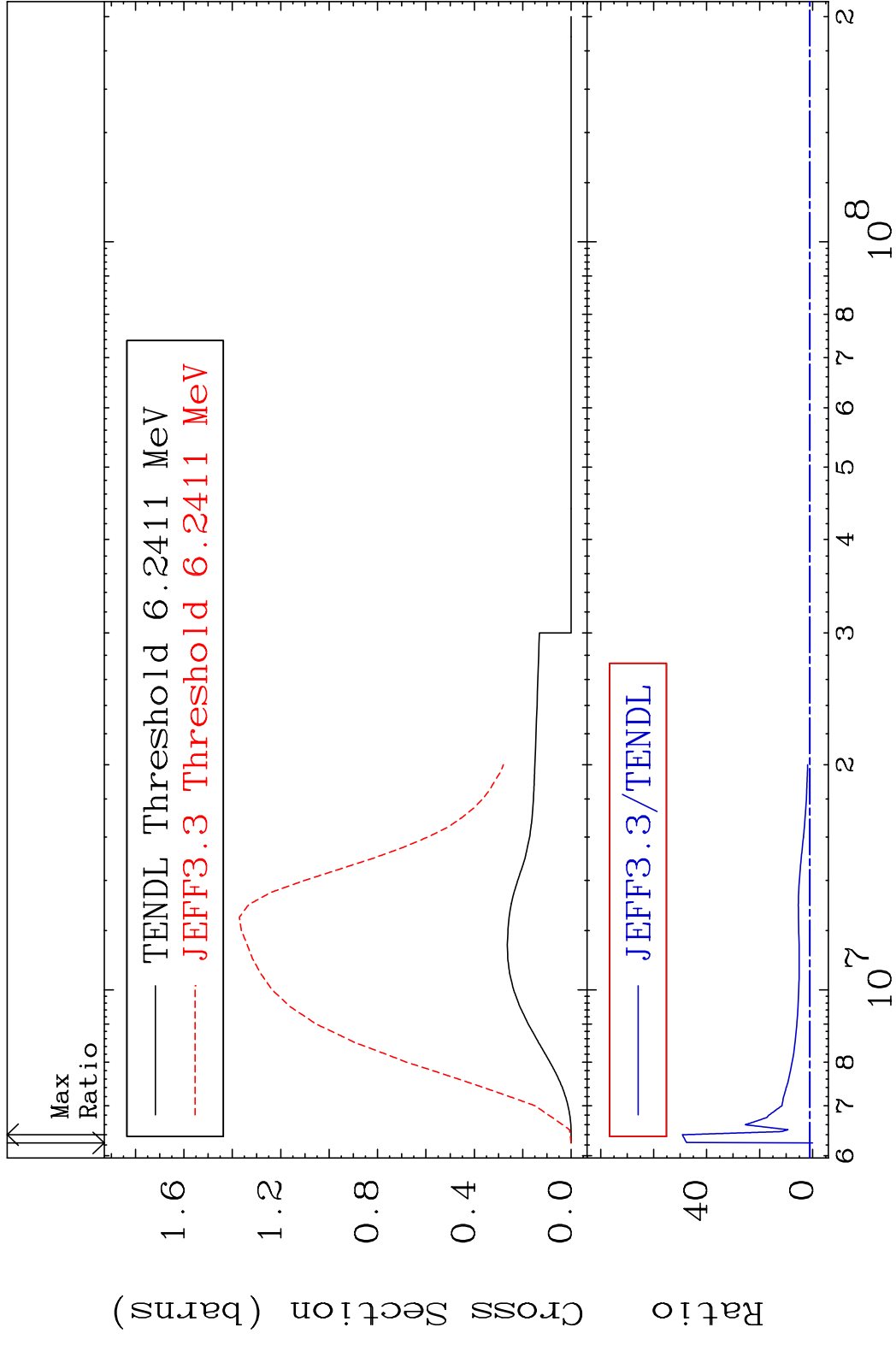
93-Np-239

MAT 9352

(n,2n)

93-Np-239

Cross Section -100.0 To 4817. %



4

Incident Energy (eV)

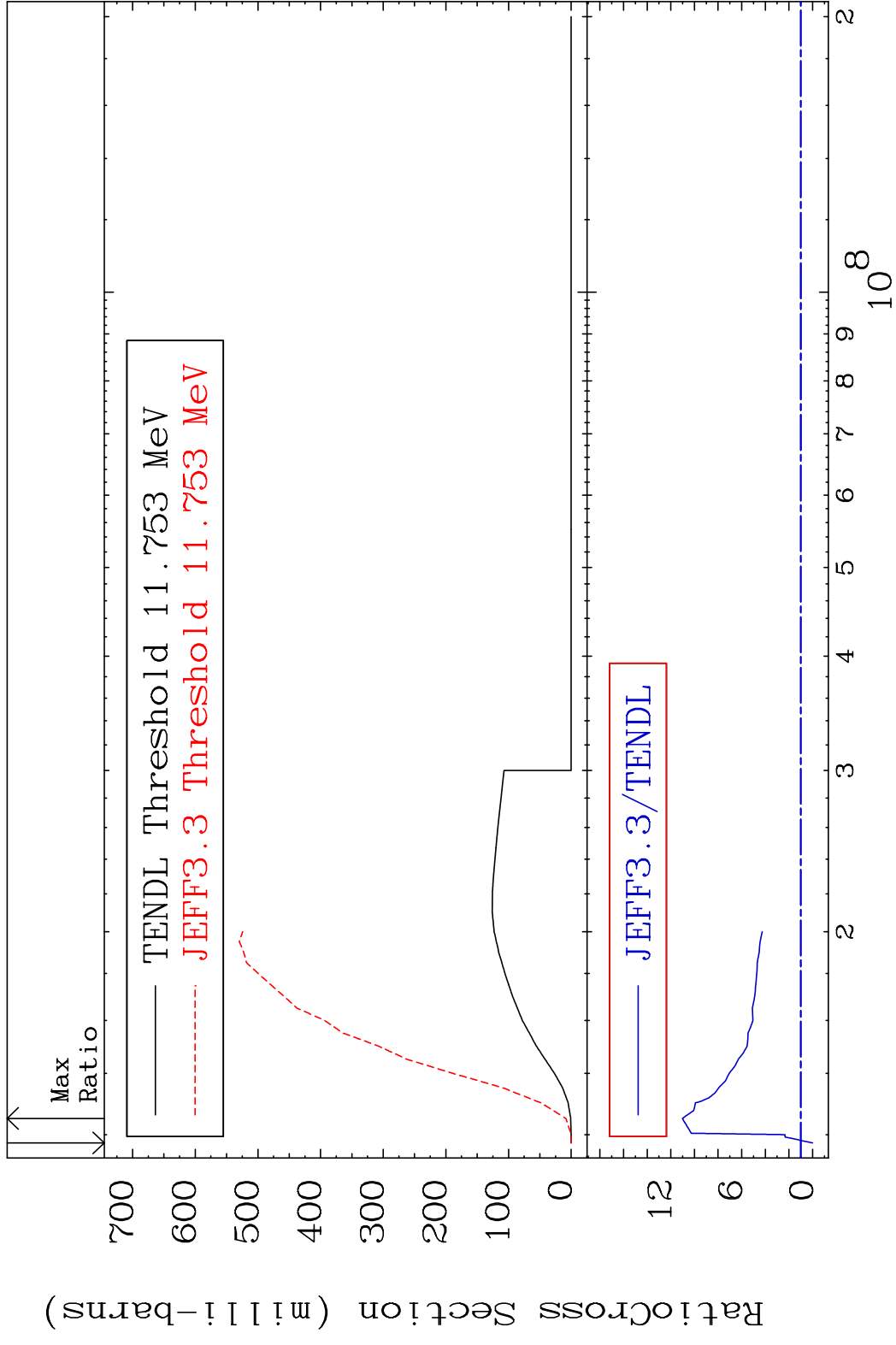
93-Np-239

MAT 9352

(n,3n)

93-Np-239

Cross Section -100.0 To 1002. %



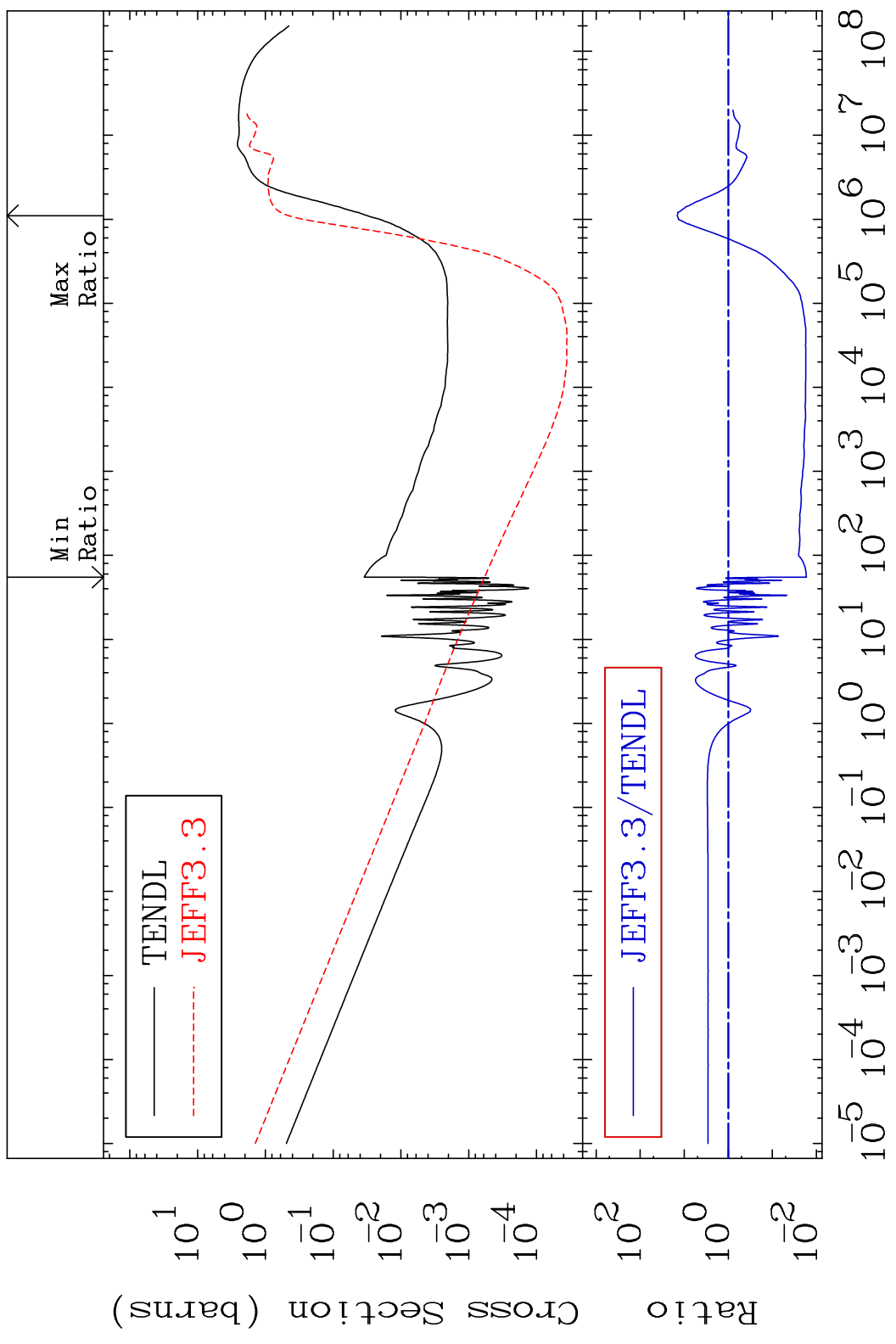
5

Incident Energy (eV)

93-Np-239

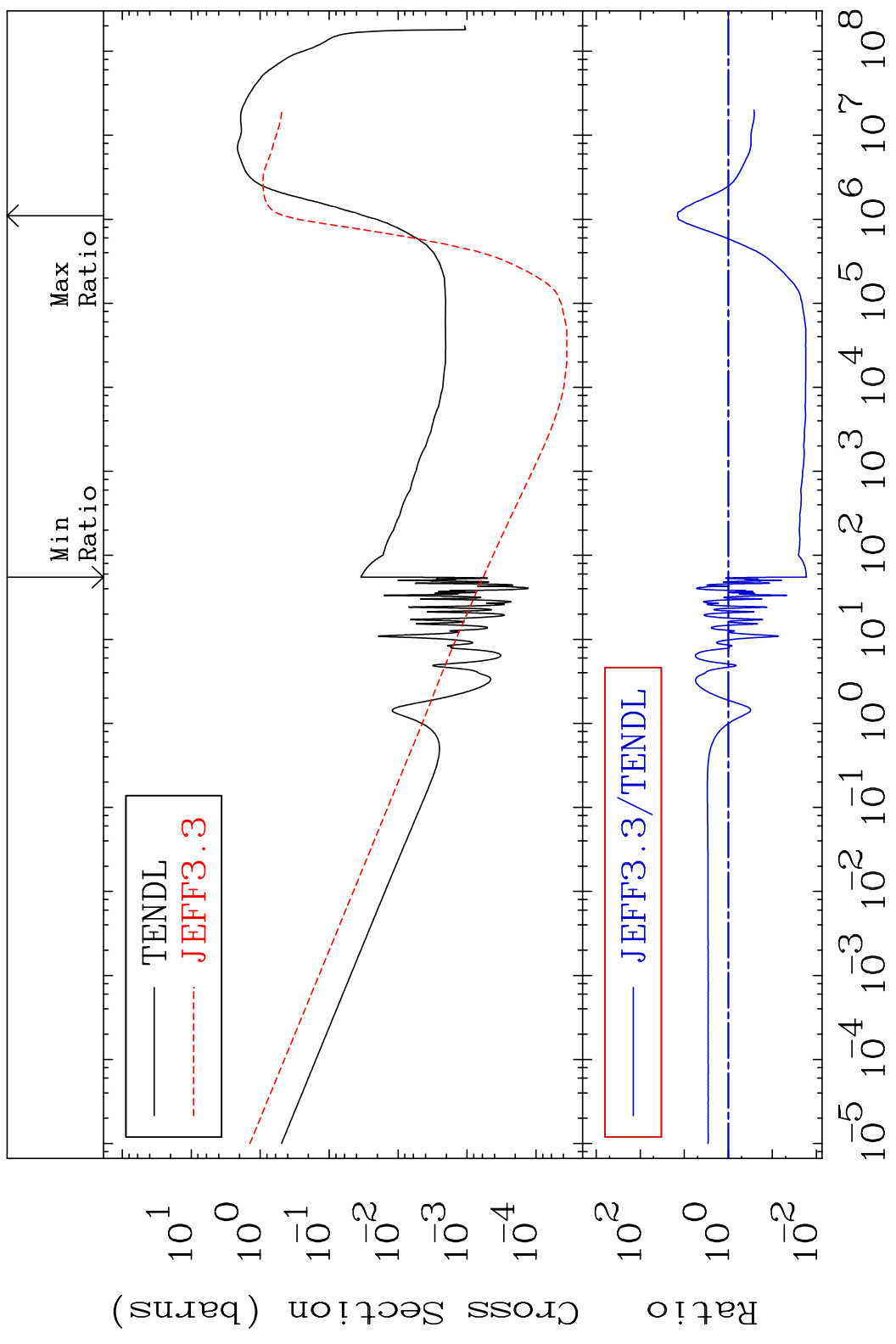
MAT 9352

Fission
Cross Section -98.32 To 1345. %
93-Np-239



MAT 9352

(n,f) First Chance 93-Np-239
Cross Section -98.32 To 1347. %



7

Incident Energy (eV)

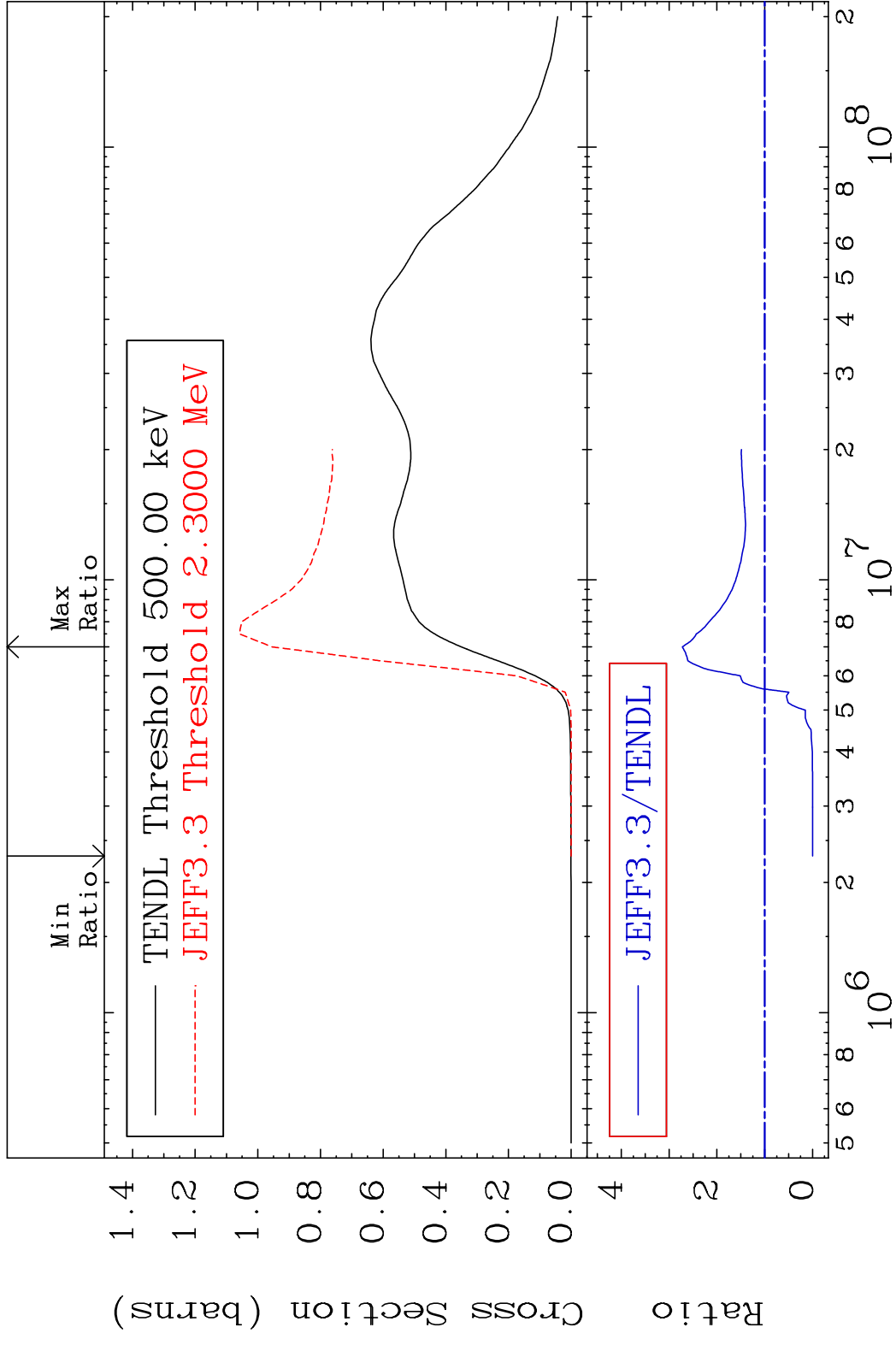
93-Np-239

MAT 9352

(n, nf) Second Chance

93-Np-239

Cross Section -100.0 To 172.3 %



8

Incident Energy (eV)

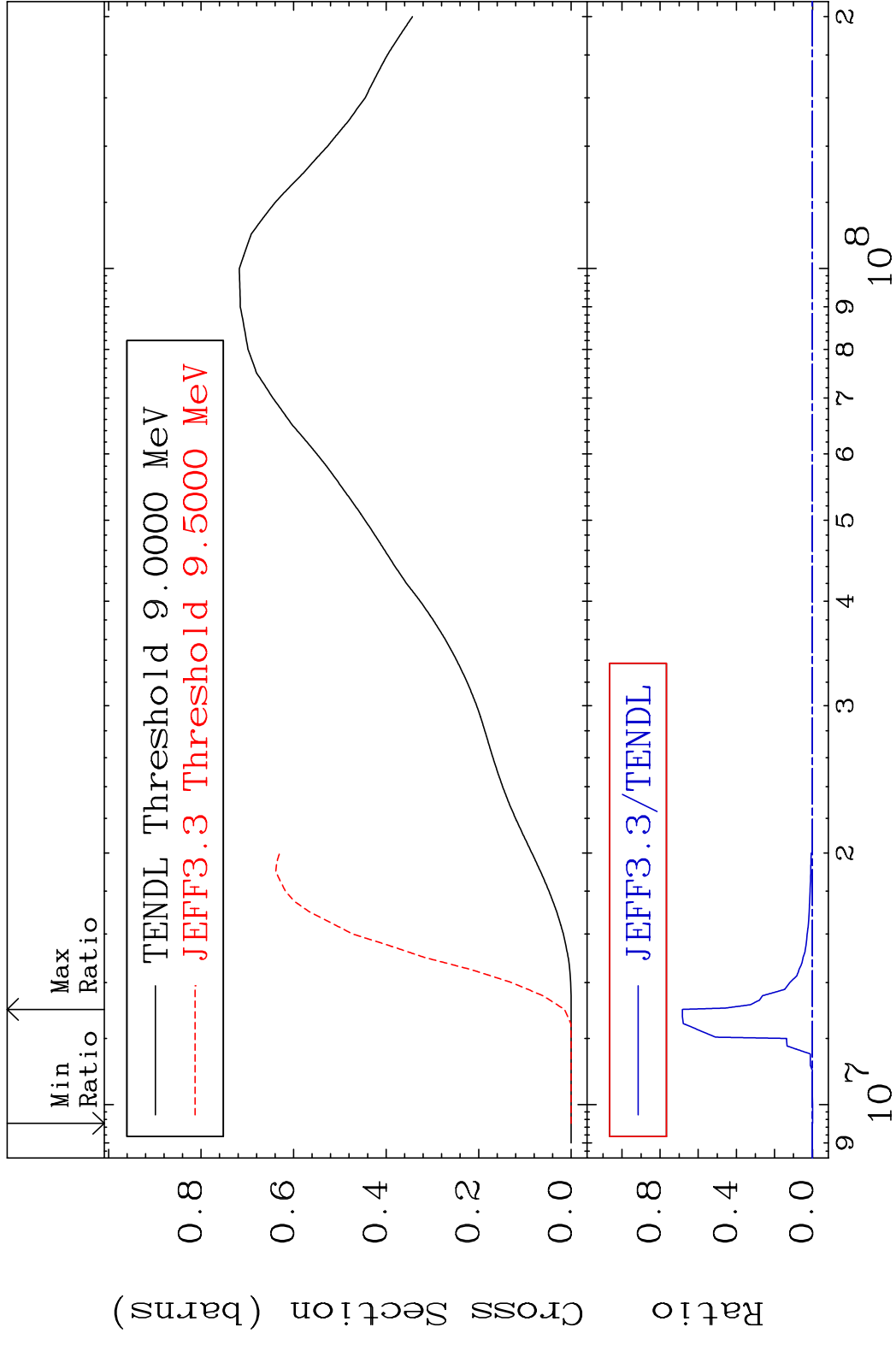
93-Np-239

MAT 9352

(n,2nf) Third Chance

93-Np-239

Cross Section -100.0 To 9999. %



9

Incident Energy (eV)

93-Np-239

MAT 9352

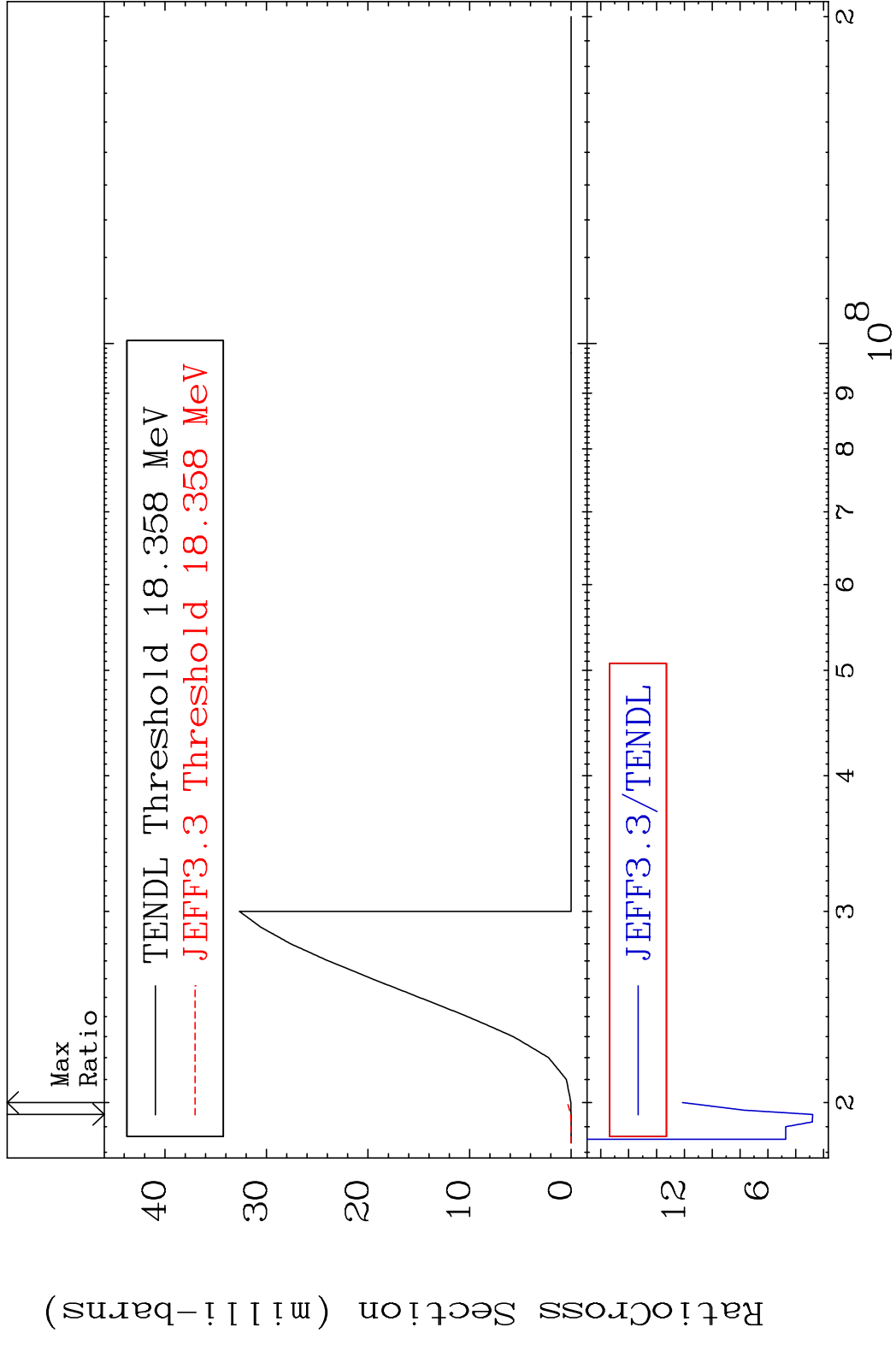
(n,4n)

93-Np-239

Cross Section

178.7

To 1114. %

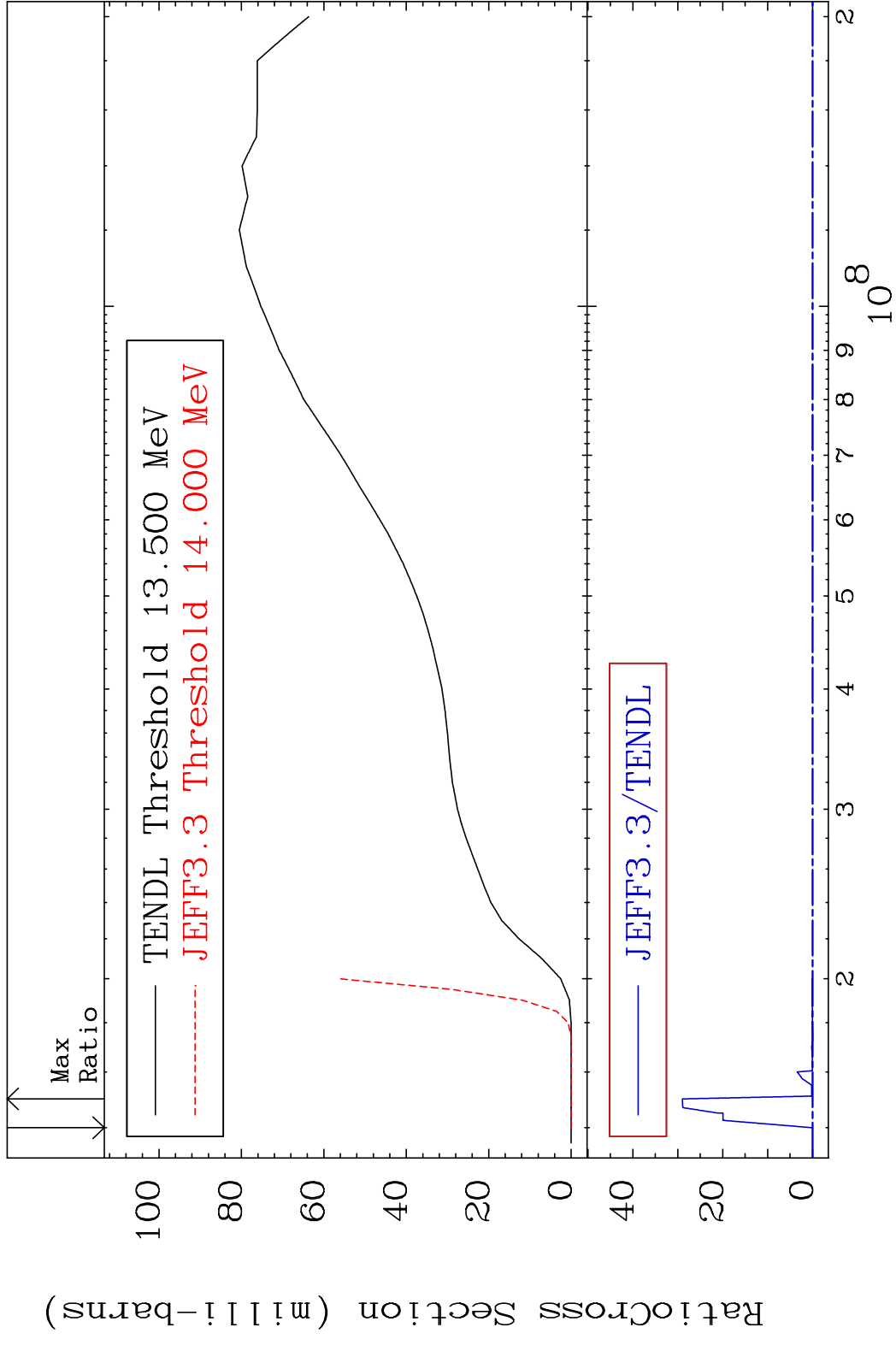


10

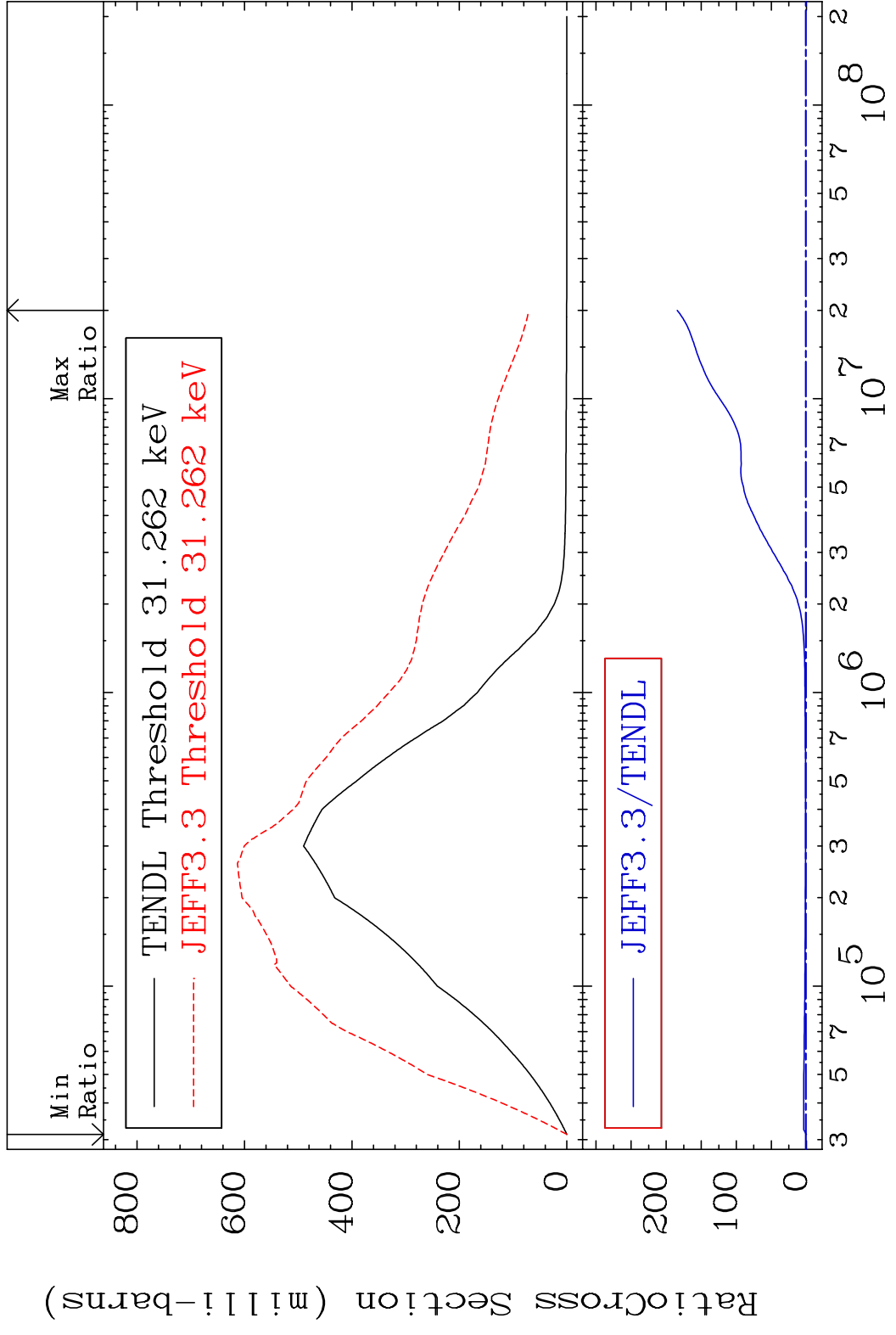
Incident Energy (eV)

93-Np-239

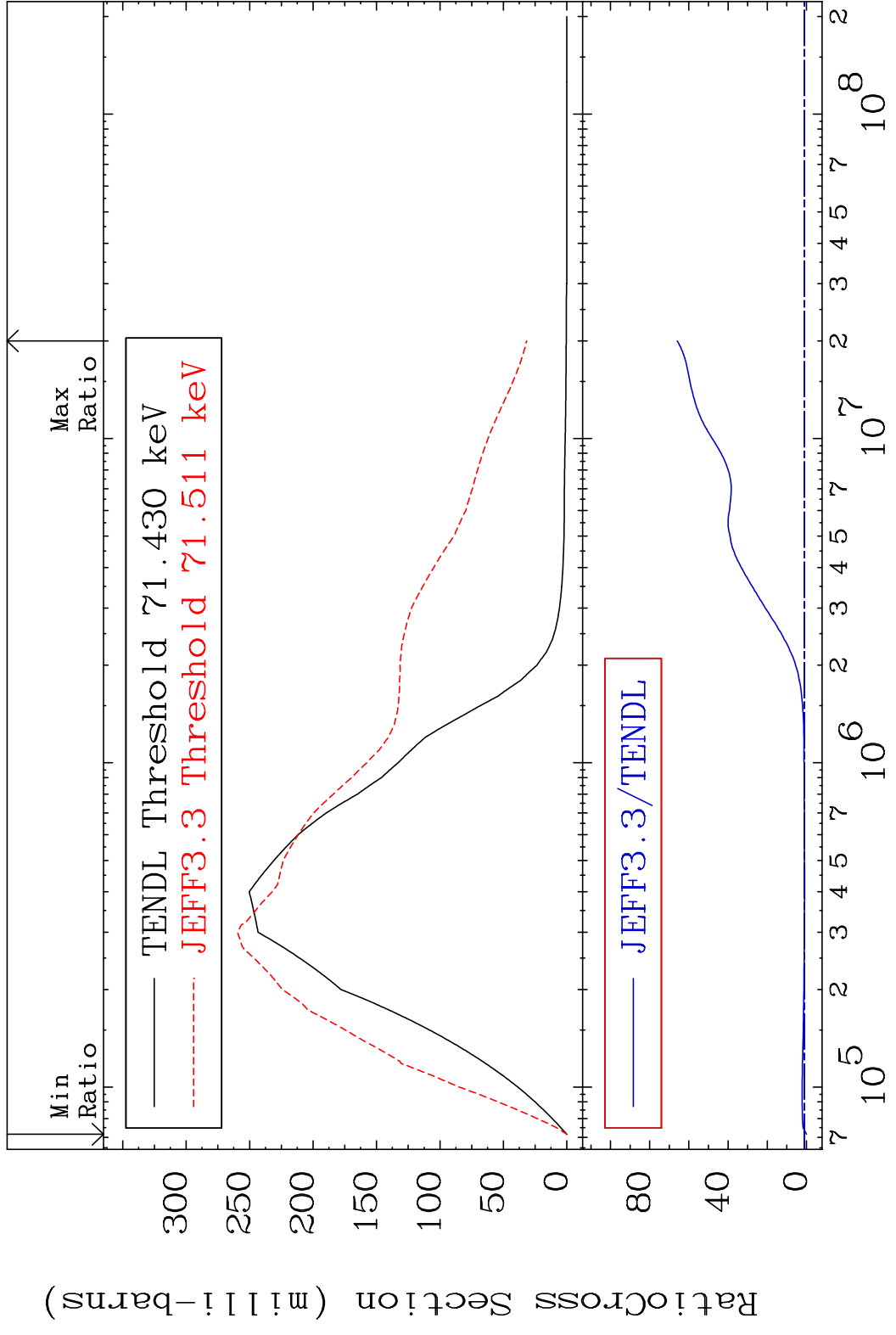
MAT 9352 (n,3nf) Fourth Chance 93-Np-239
 Cross Section -100.0 To 9999. %



MAT 9352 MT= 51 (n, n') Level 93-Np-239
 Cross Section -100.0 To 9999. %

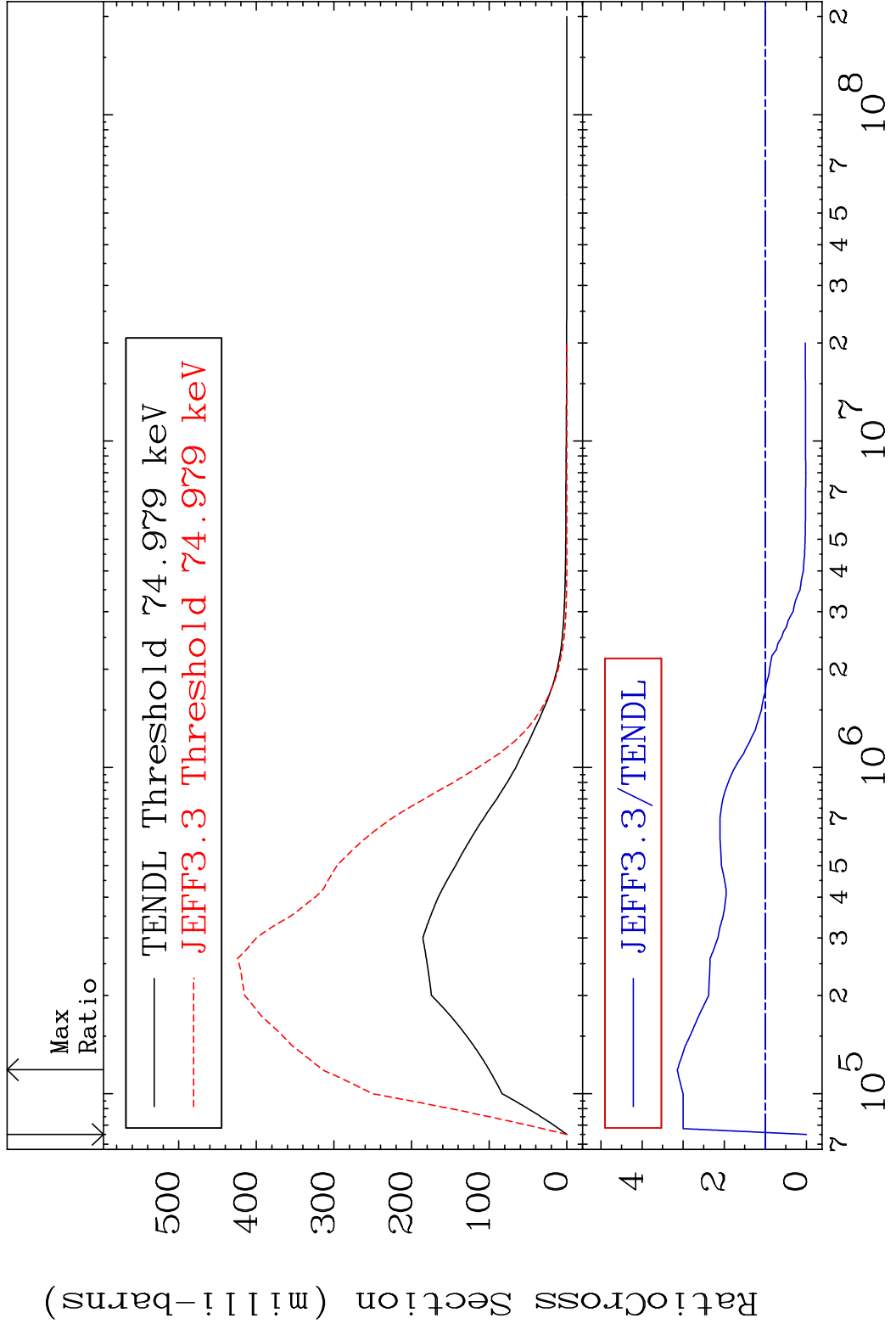


MAT 9352 MT= 52 (n, n') Level 93-Np-239
 Cross Section -100.0 To 6497. %



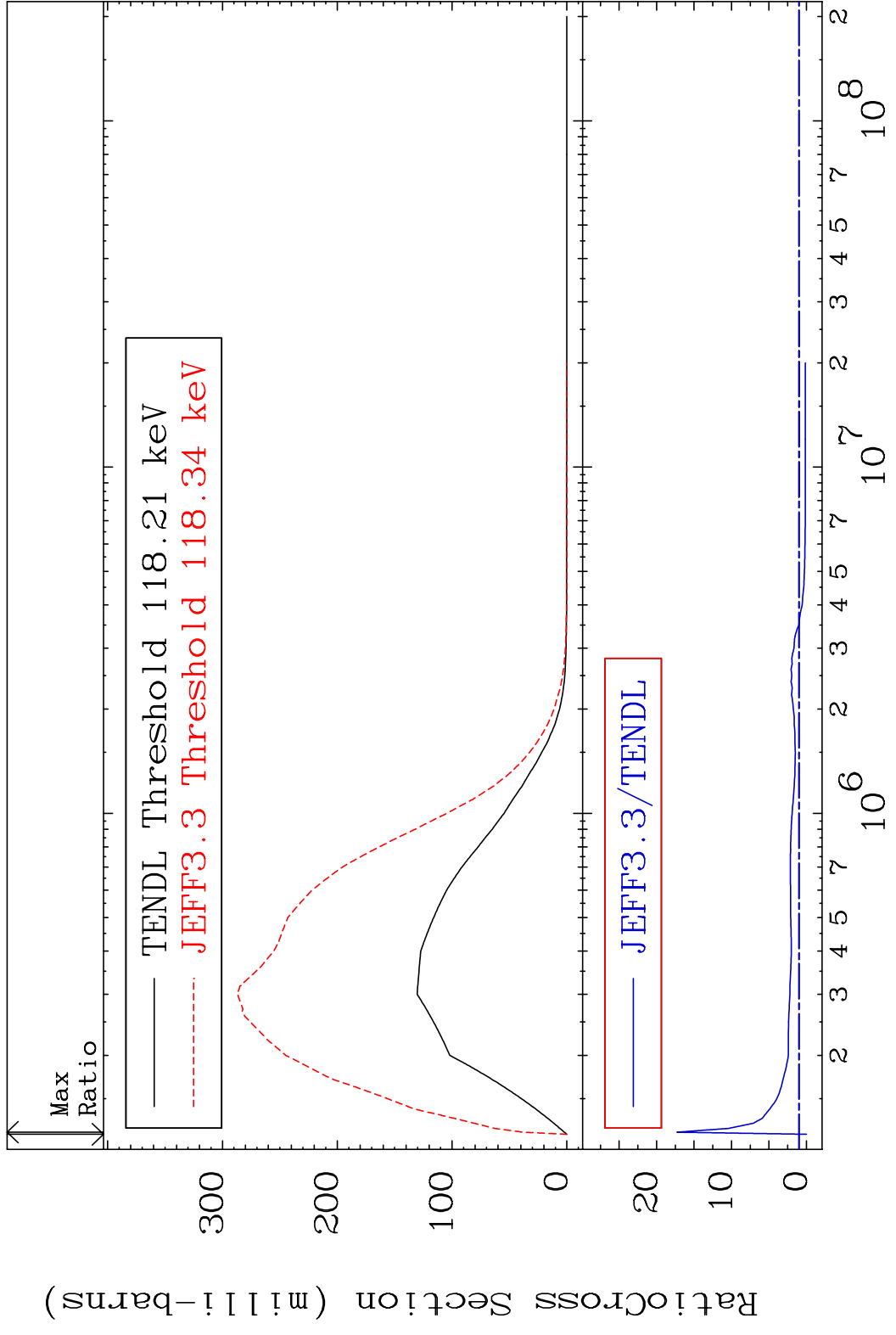
13 Incident Energy (eV) 93-Np-239

MAT 9352 MT= 53 (n, n') Level 93-Np-239
 Cross Section -100.0 To 214.5 %

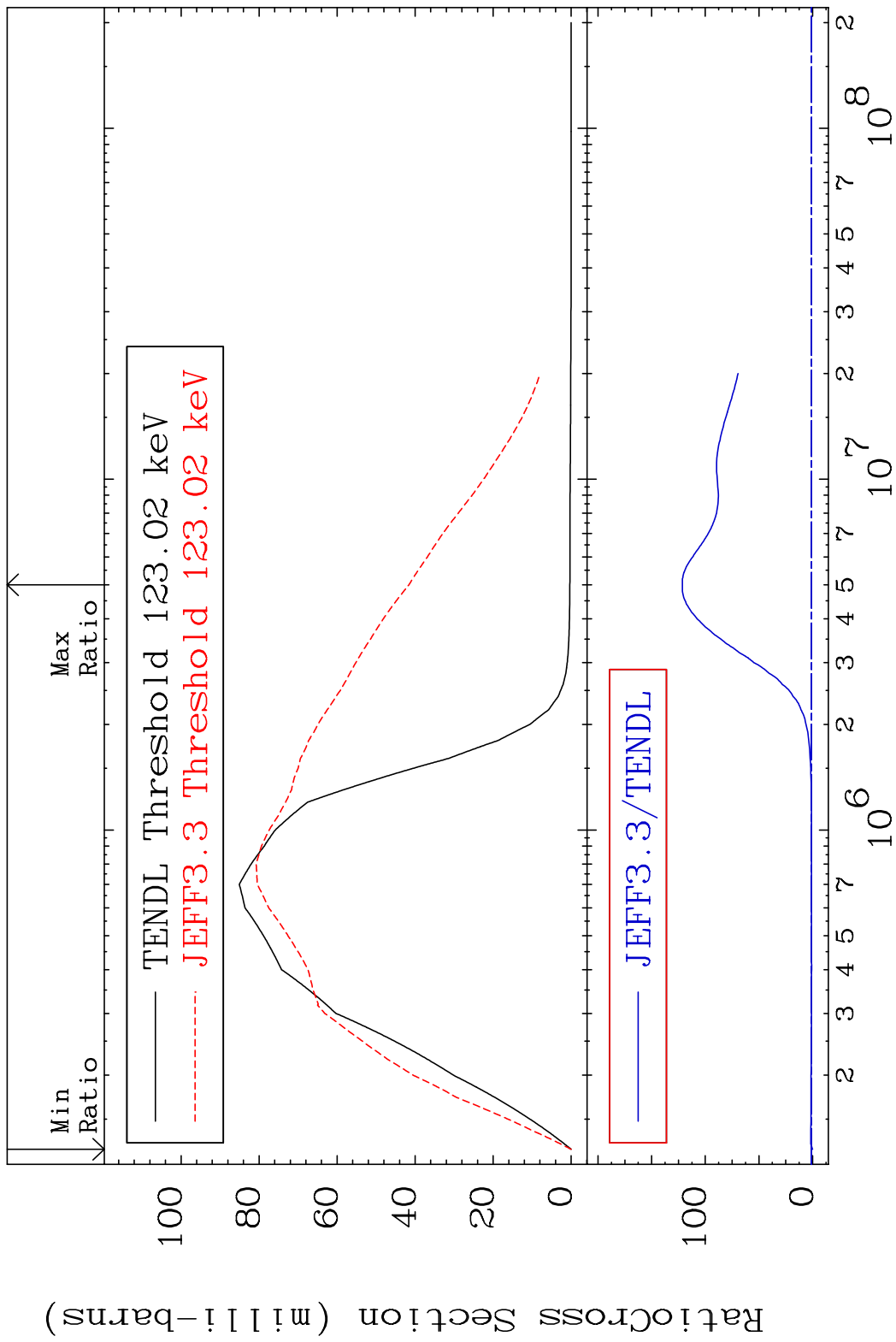


14 Incident Energy (eV) 93-Np-239

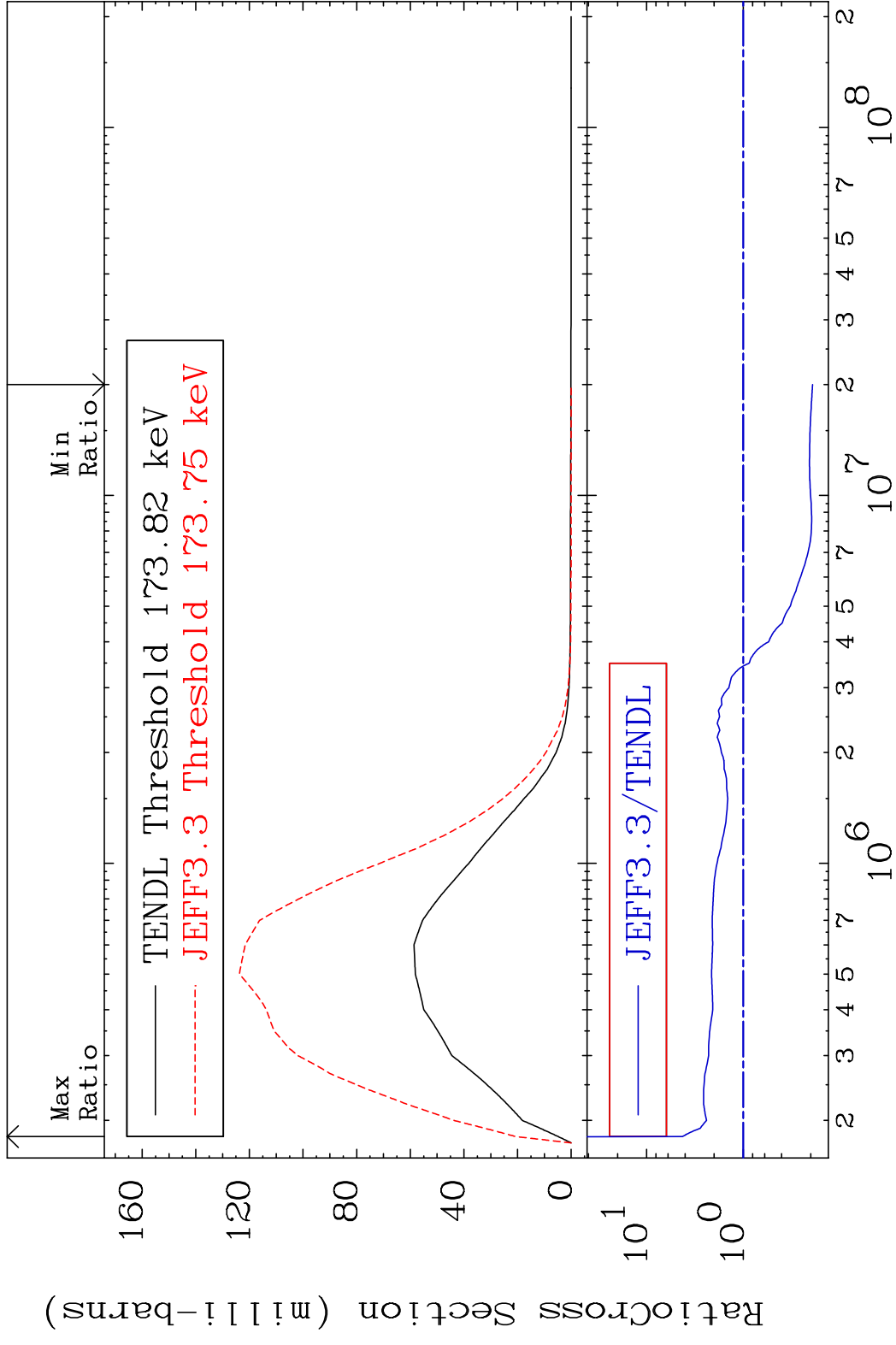
MAT 9352 MT= 54 (n,n') Level 93-Np-239
 Cross Section -100.0 To 1625. %



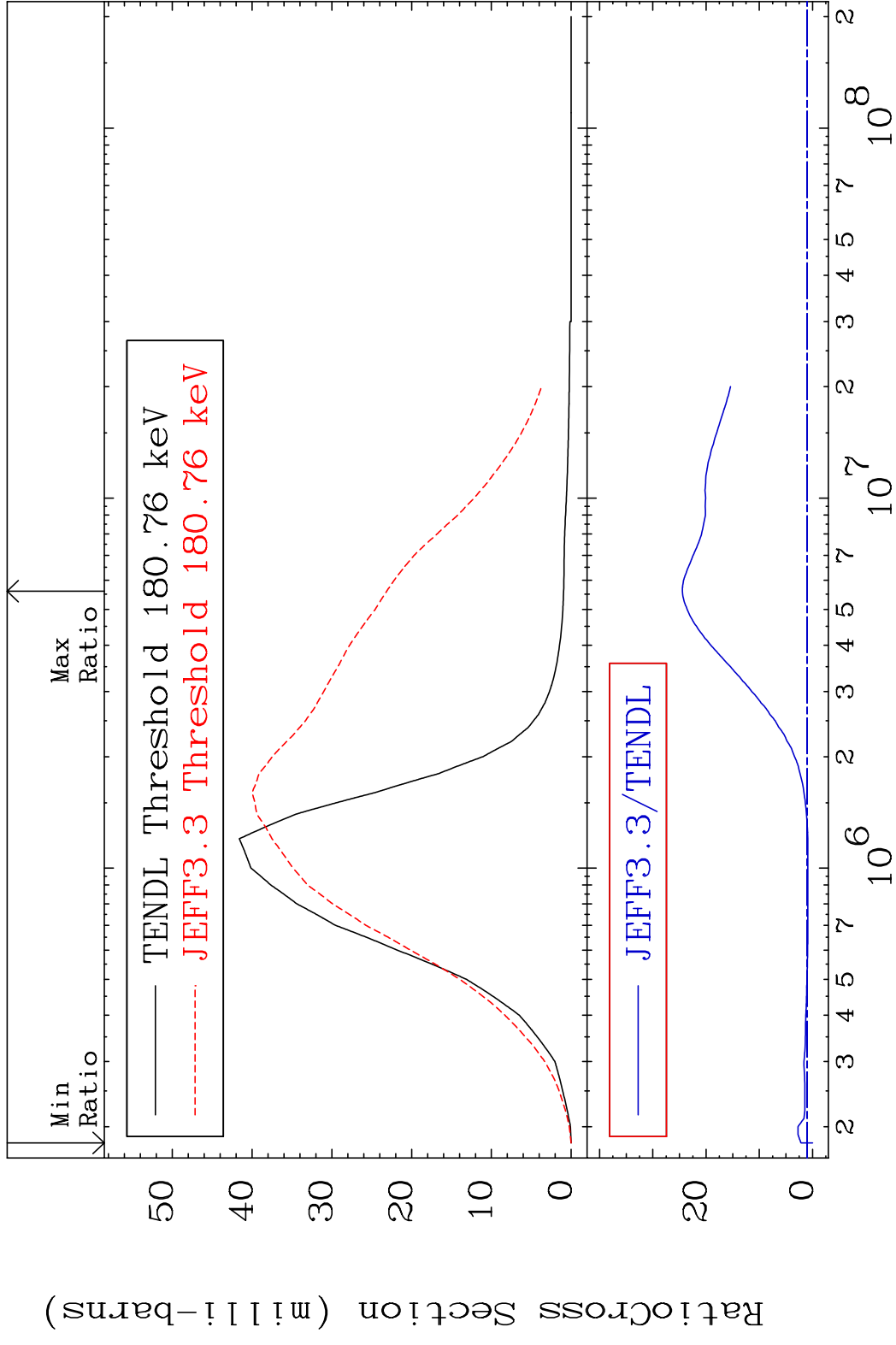
MAT 9352 MT= 55 (n, n') Level 93-Np-239
 Cross Section -100.0 To 9999. %



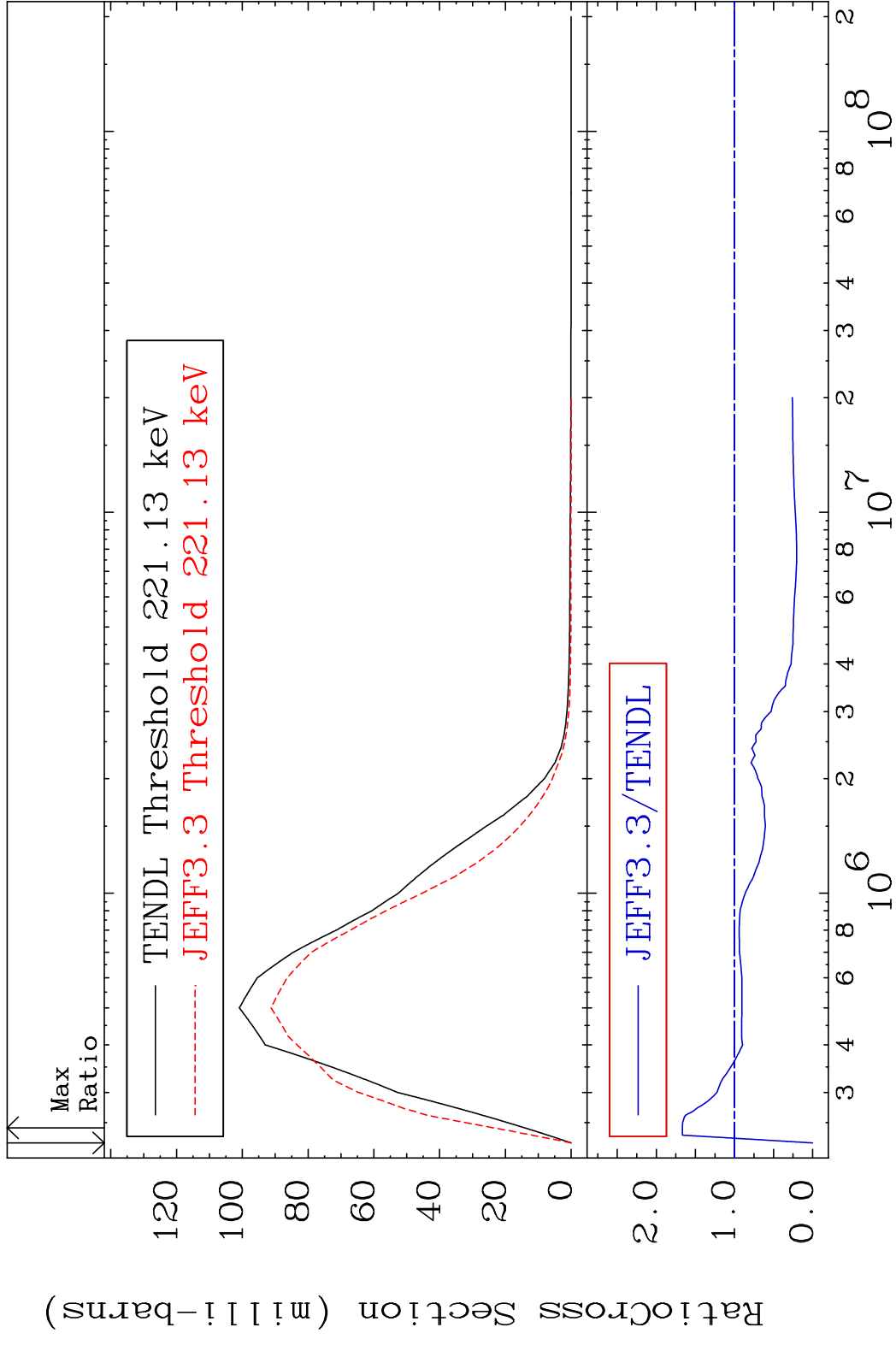
MAT 9352 MT= 56 (n,n') Level 93-Np-239
 Cross Section -80.86 To 327.1 %



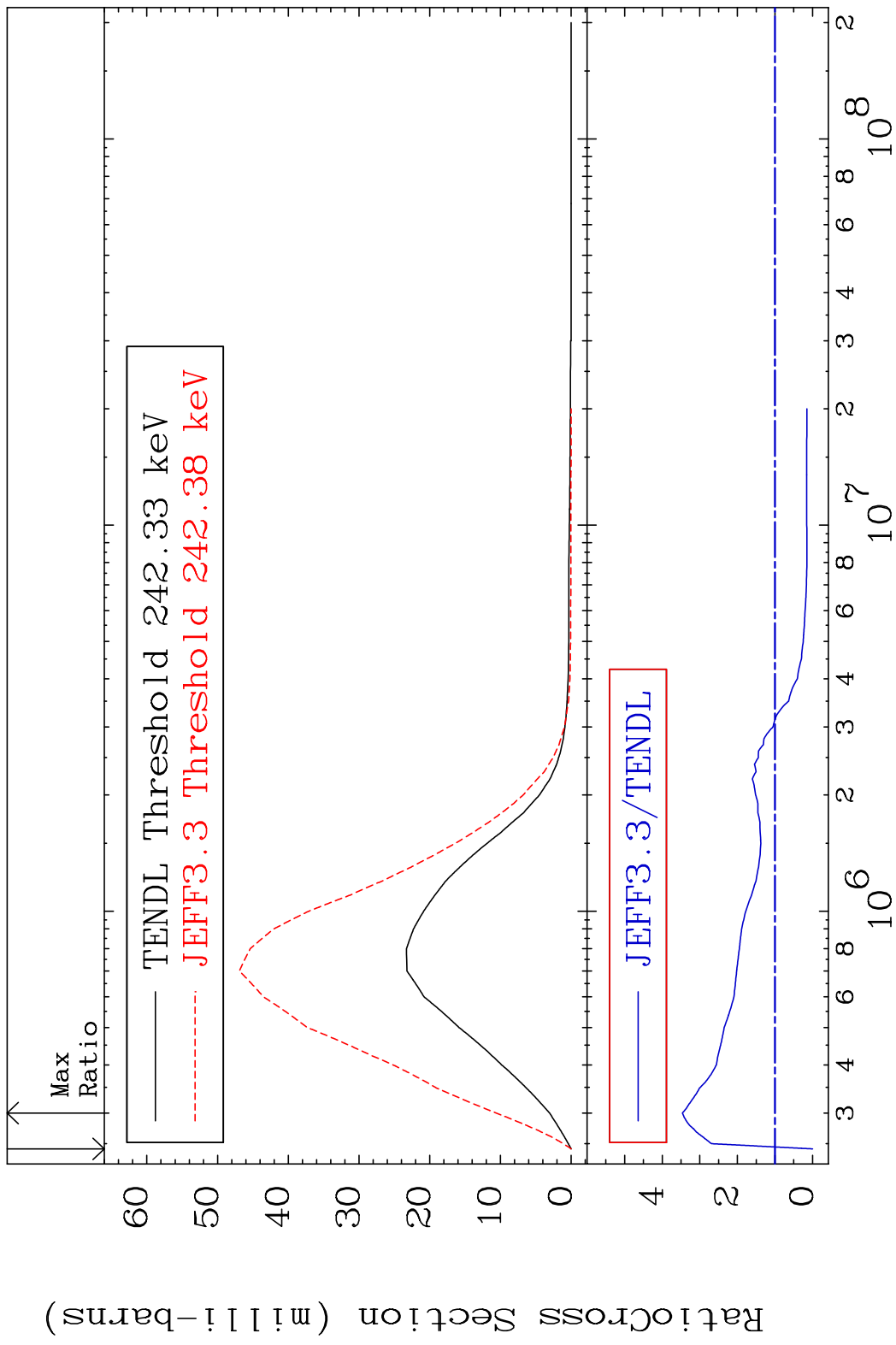
MAT 9352 MT= 57 (n, n') Level 93-Np-239
 Cross Section -100.0 To 2346. %



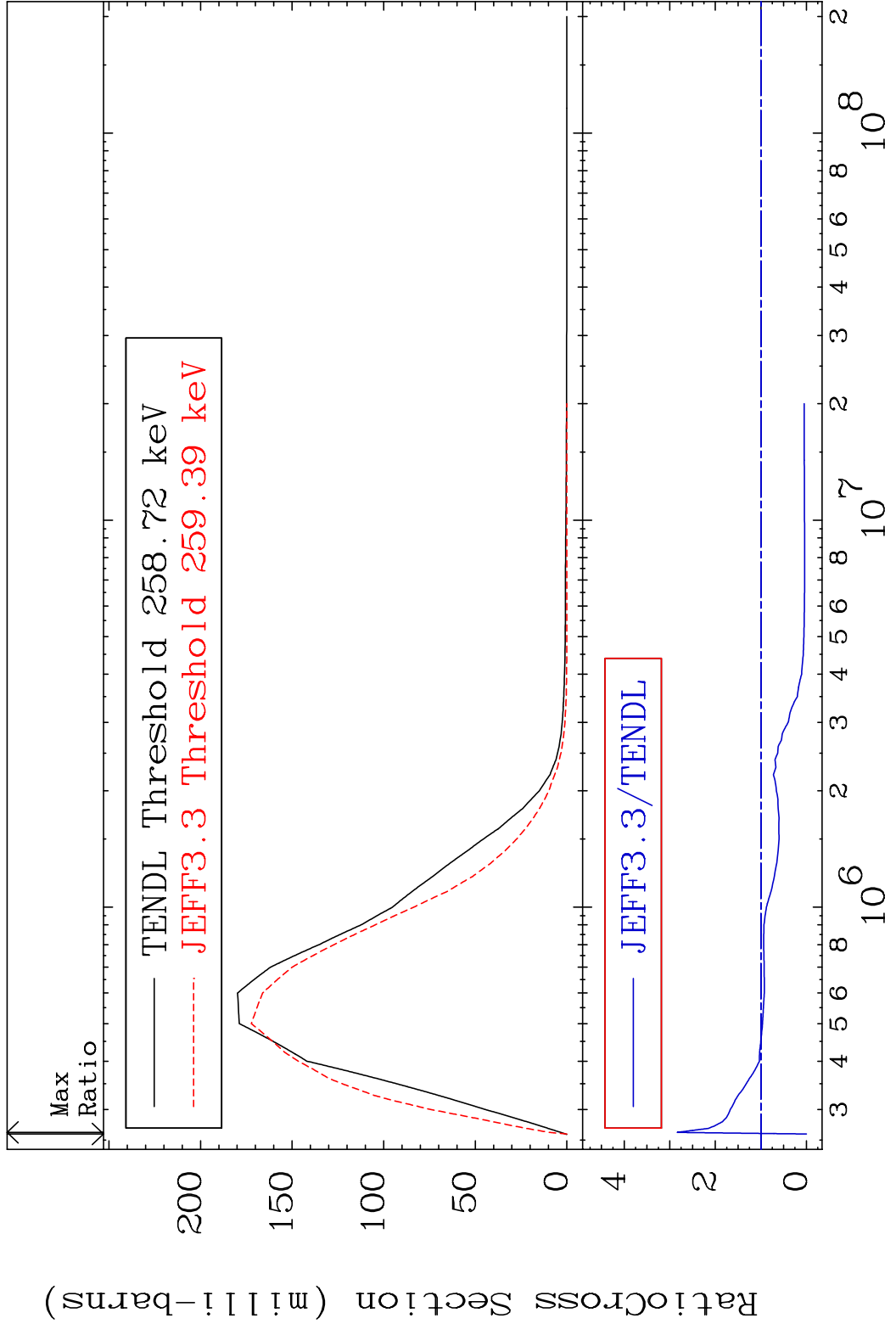
MAT 9352 MT= 58 (n, n') Level 93-Np-239
 Cross Section -100.0 To 66.67 %



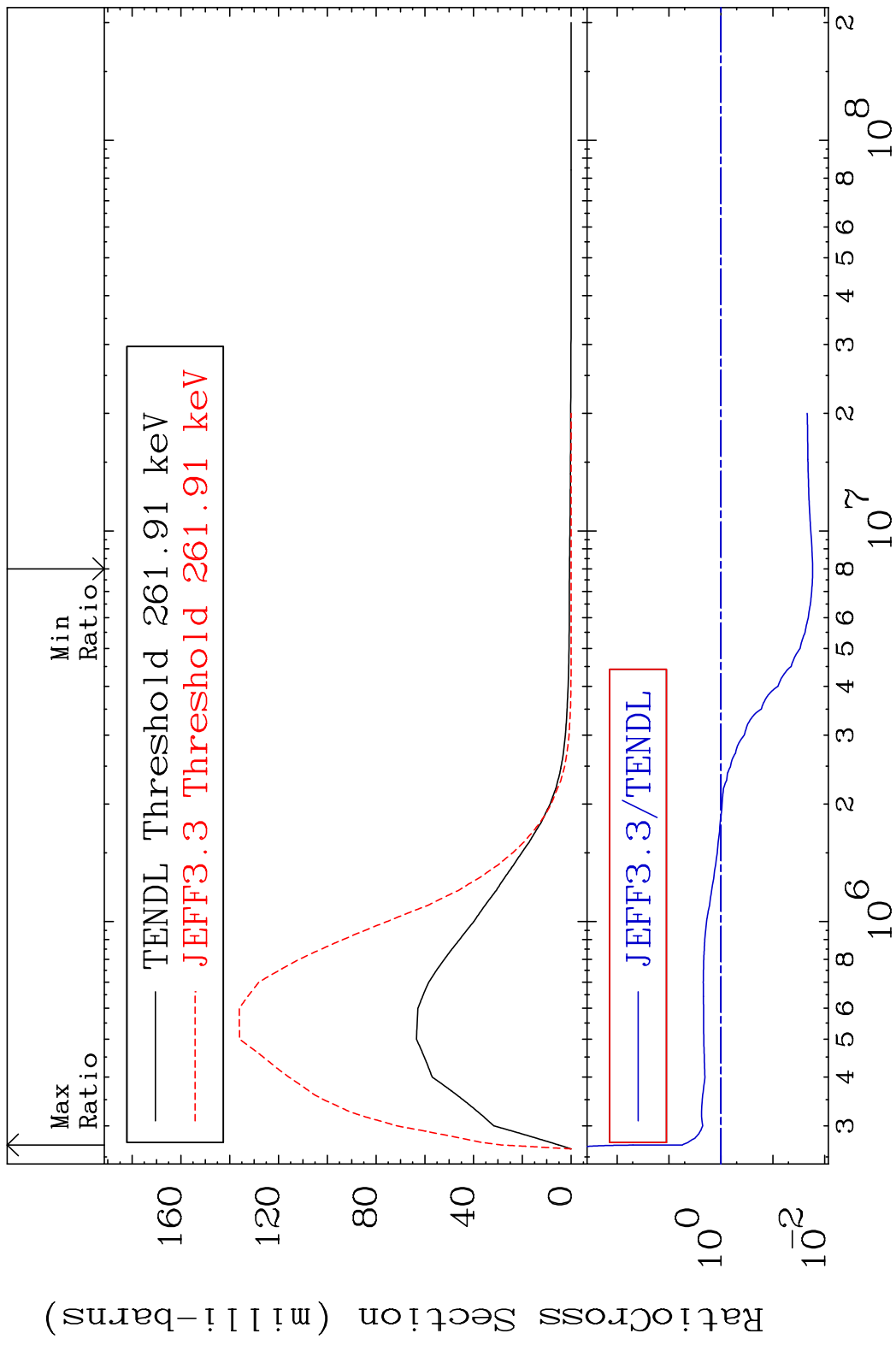
MAT 9352 MT= 59 (n, n') Level 93-Np-239
 Cross Section -100.0 To 246.4 %



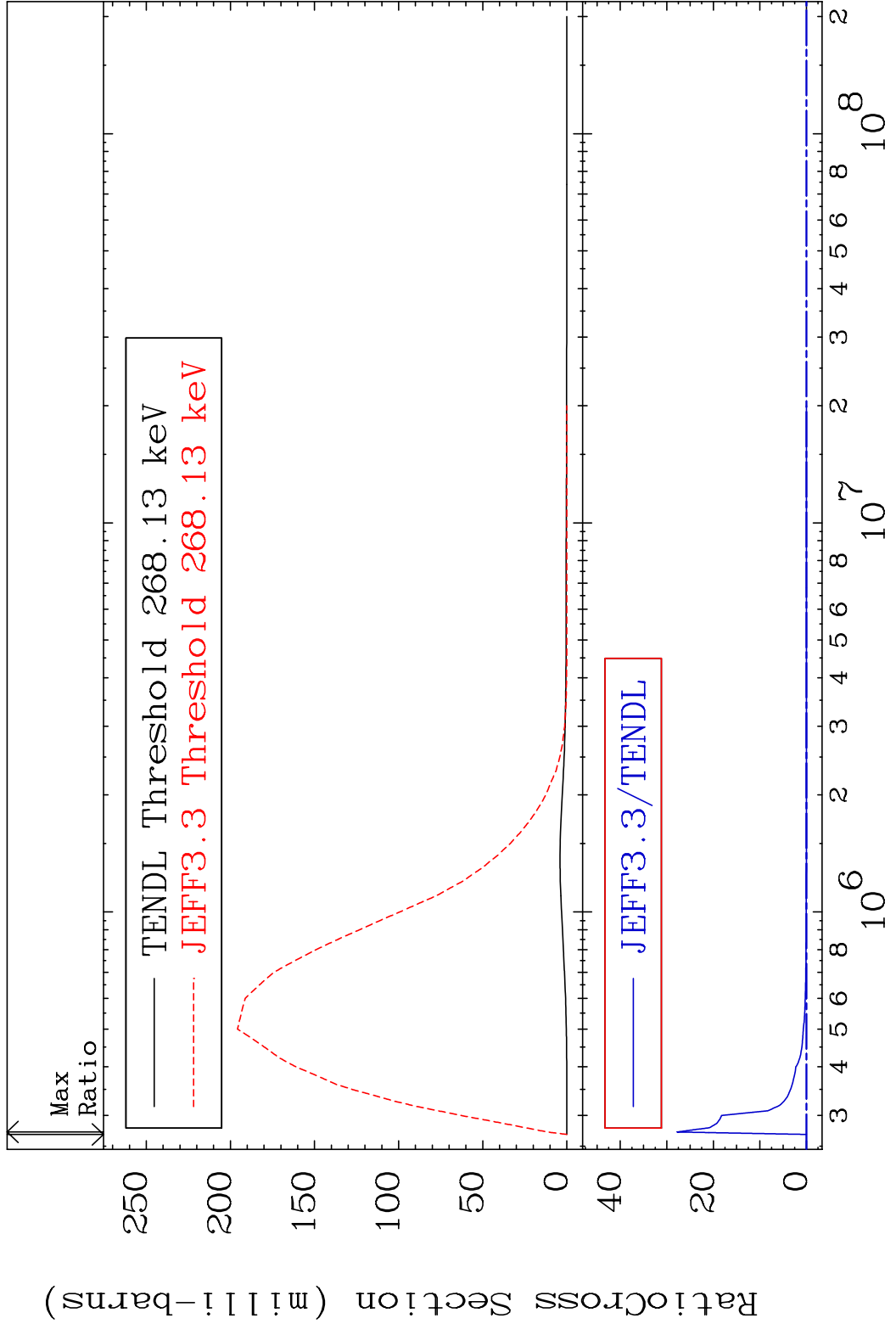
MAT 9352 MT= 60 (n, n') Level 93-Np-239
 Cross Section -100.0 To 183.7 %



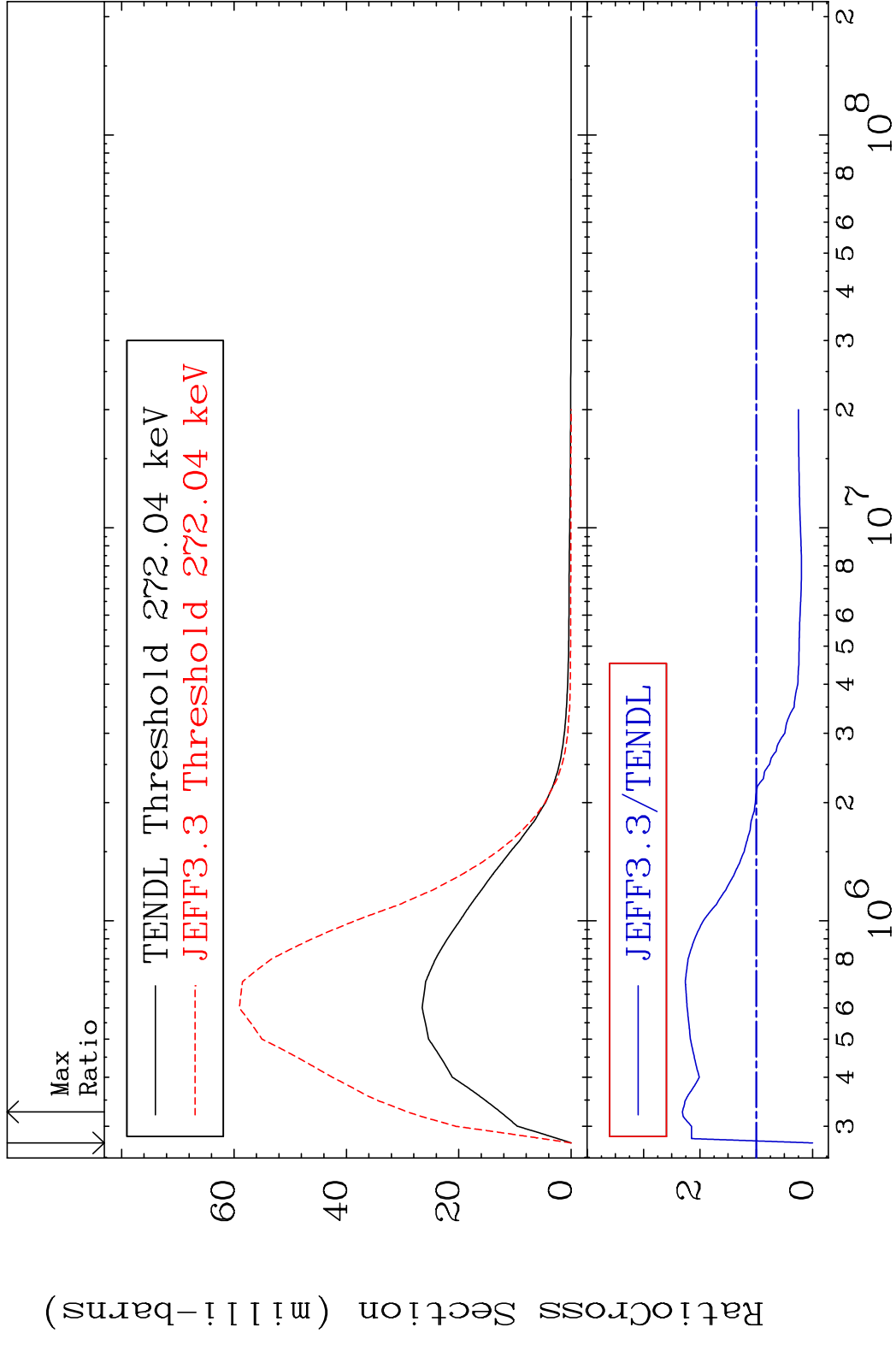
MAT 9352 MT= 61 (n, n') Level 93-Np-239
 Cross Section -98.28 To 453.5 %



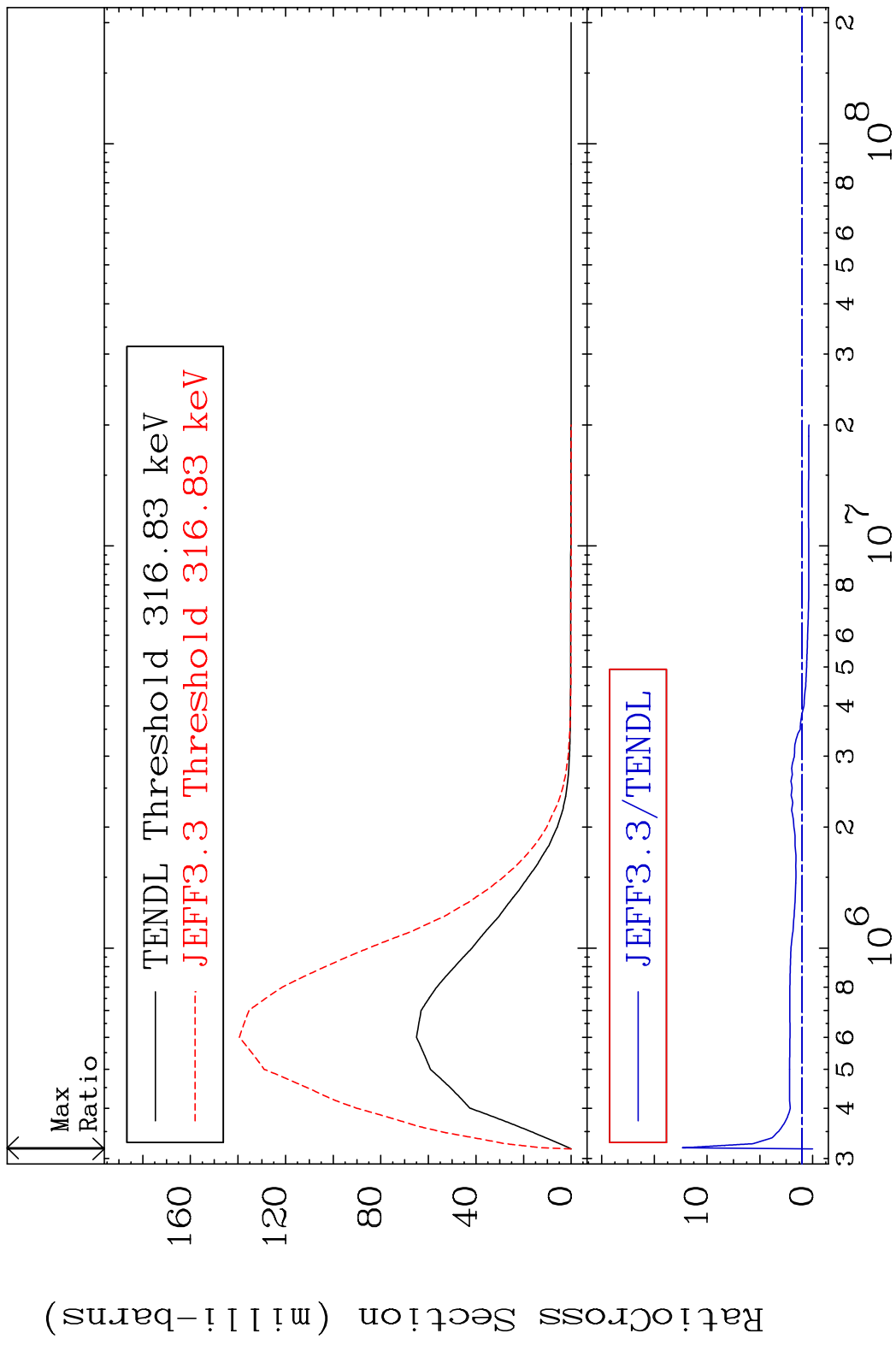
MAT 9352 MT= 62 (n, n') Level 93-Np-239
 Cross Section -100.0 To 9999. %



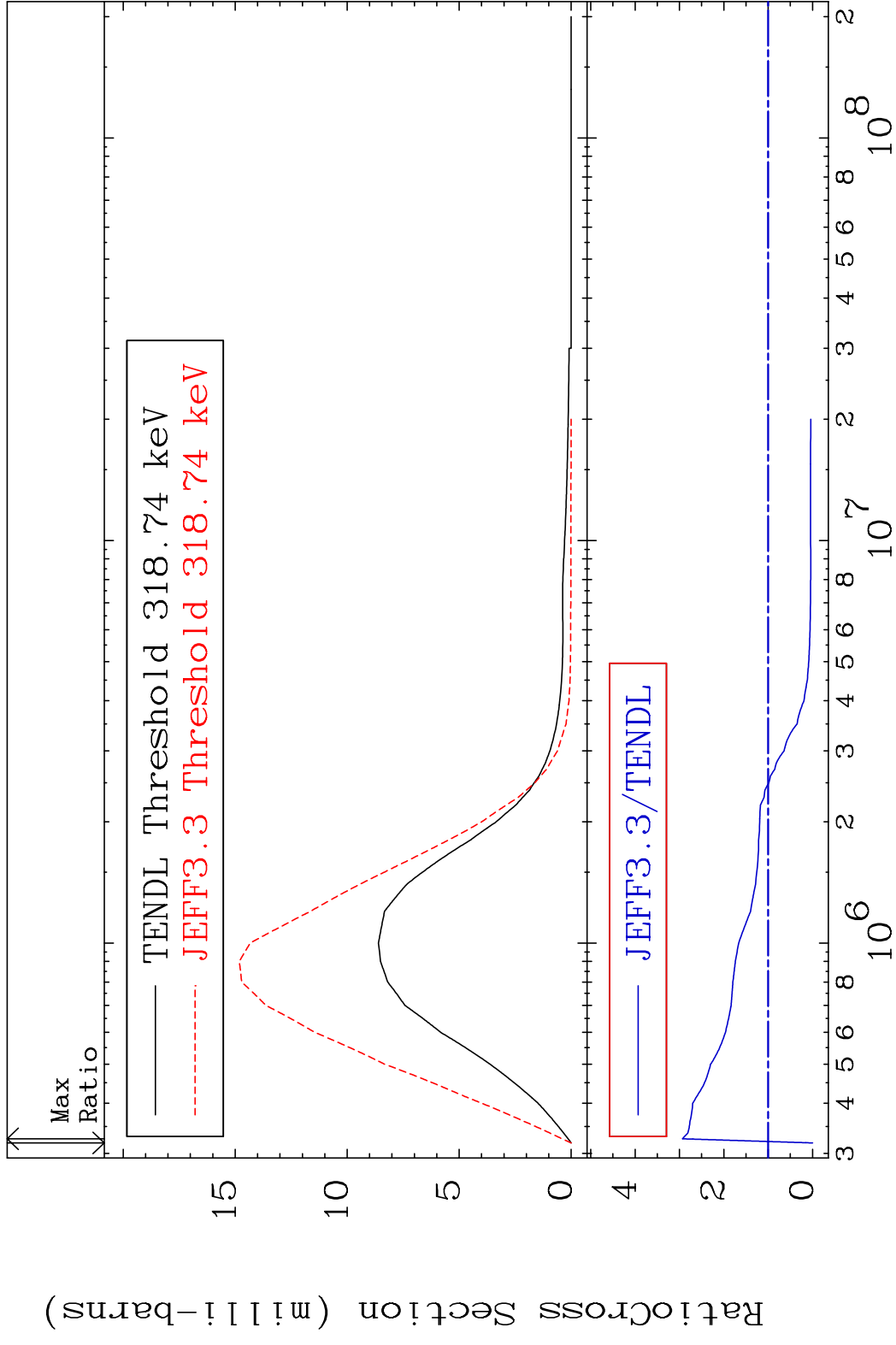
MAT 9352 MT= 63 (n, n') Level 93-Np-239
 Cross Section -100.0 To 131.2 %



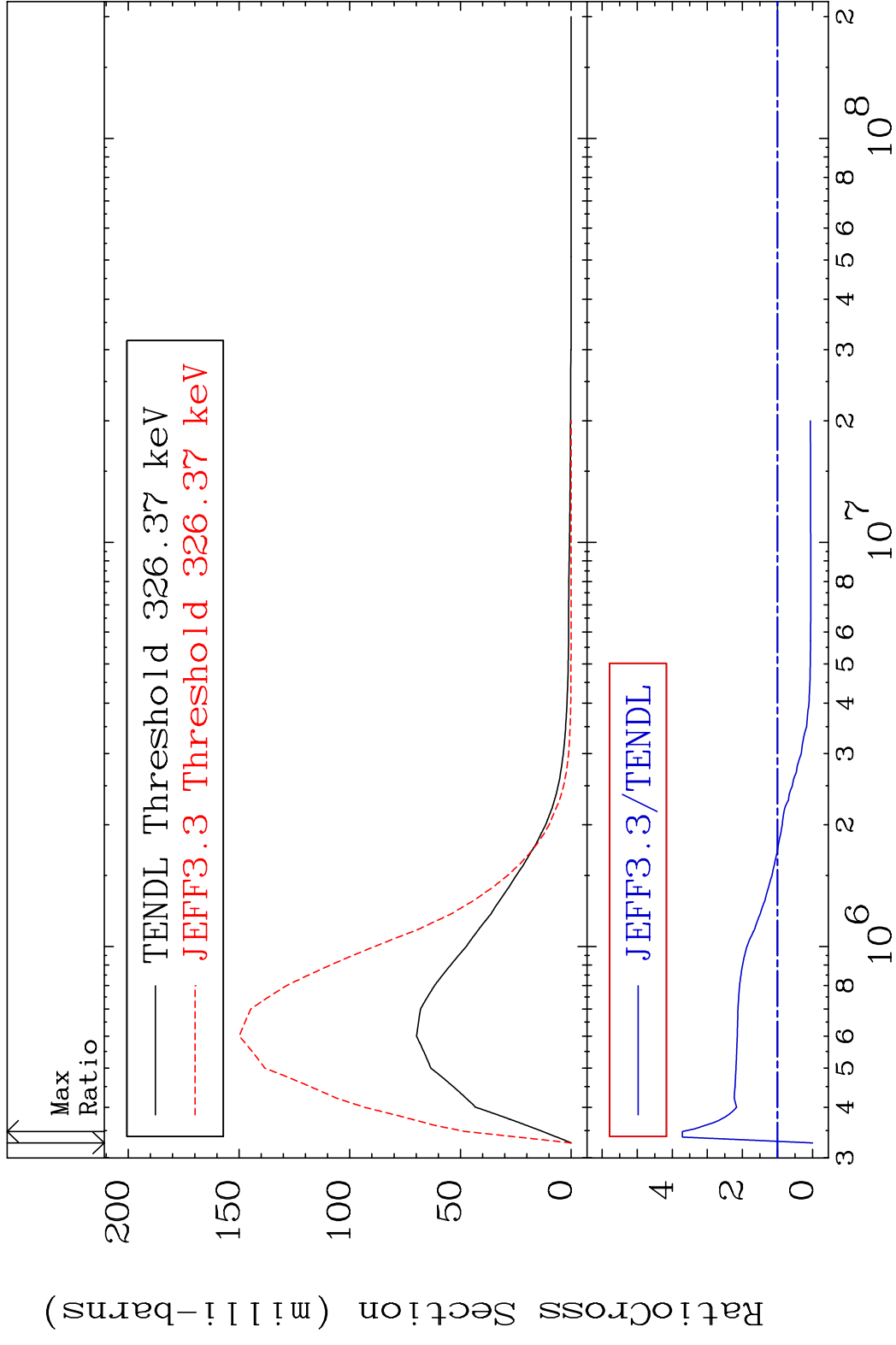
MAT 9352 MT= 64 (n,n') Level 93-Np-239
 Cross Section -100.0 To 1134. %



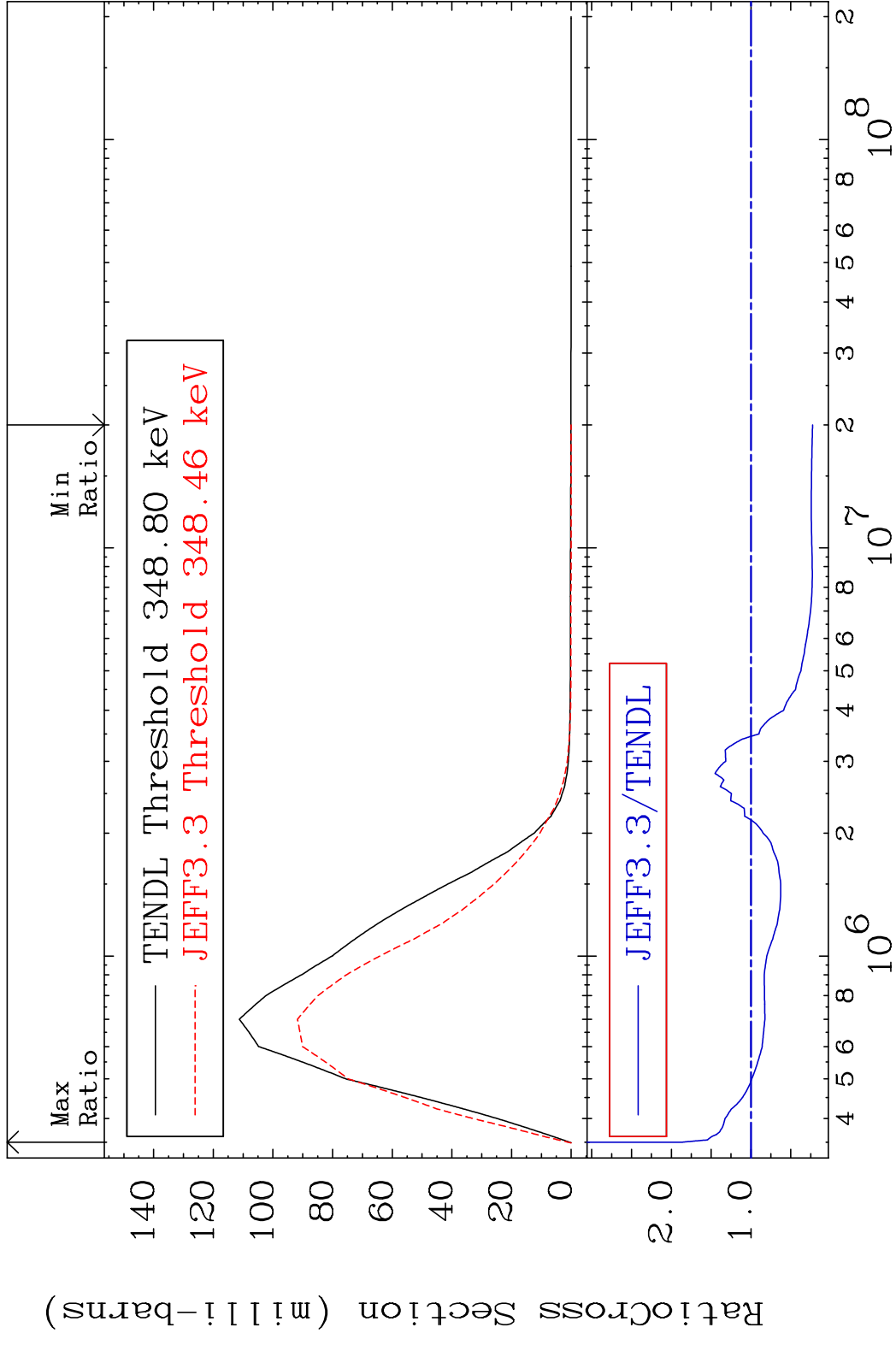
MAT 9352 MT= 65 (n, n') Level 93-Np-239
 Cross Section -100.0 To 193.4 %



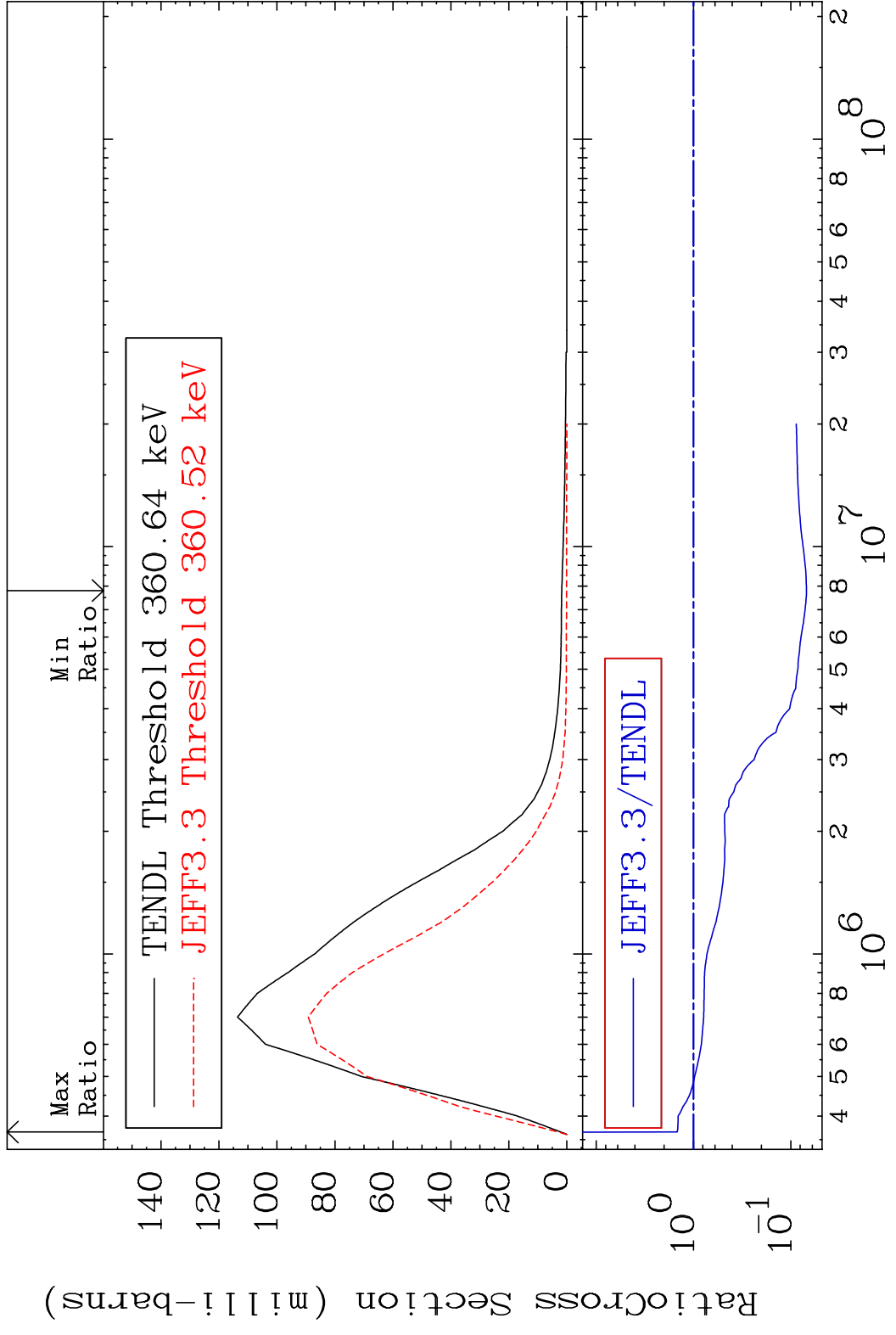
MAT 9352 MT= 66 (n,n') Level 93-Np-239
 Cross Section -100.0 To 271.2 %



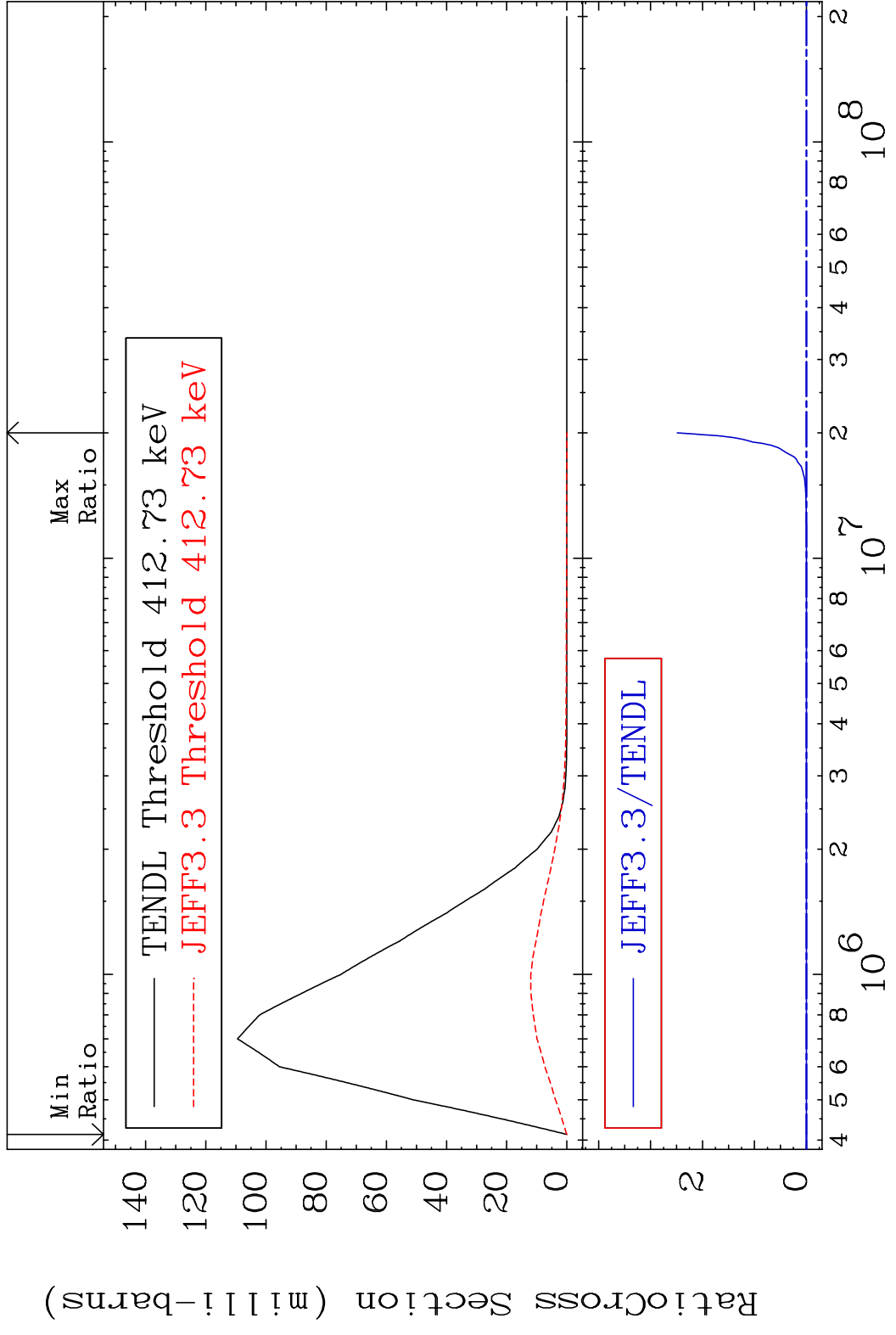
MAT 9352 MT= 67 (n, n') Level 93-Np-239
 Cross Section -77.37 To 86.16 %



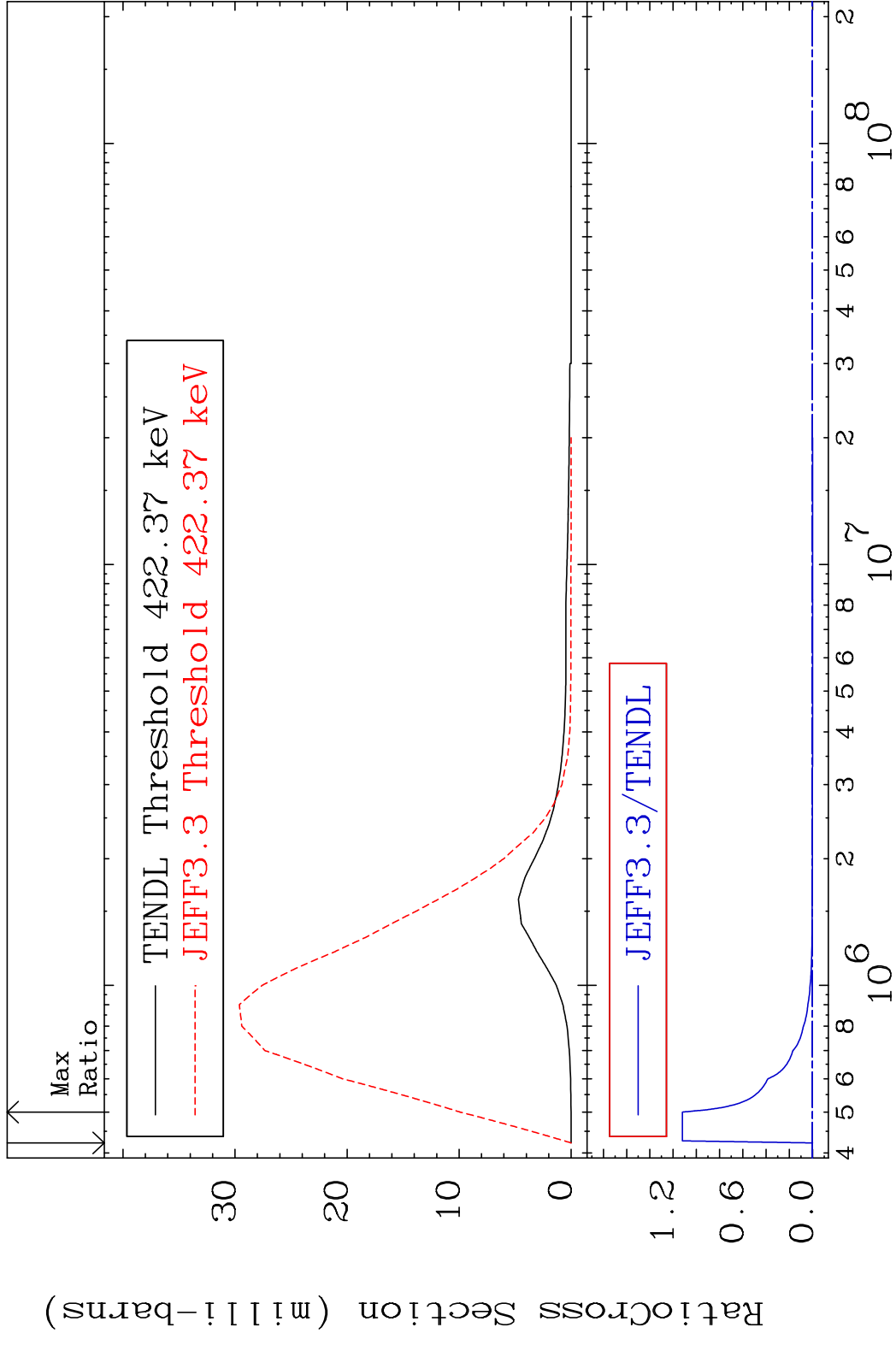
MAT 9352 MT= 68 (n, n') Level 93-Np-239
 Cross Section -93.10 To 47.04 %



MAT 9352 MT= 69 (n, n') Level 93-Np-239
 Cross Section -100.0 To 9999. %



MAT 9352 MT= 70 (n, n') Level 93-Np-239
 Cross Section -100.0 To 9999. %

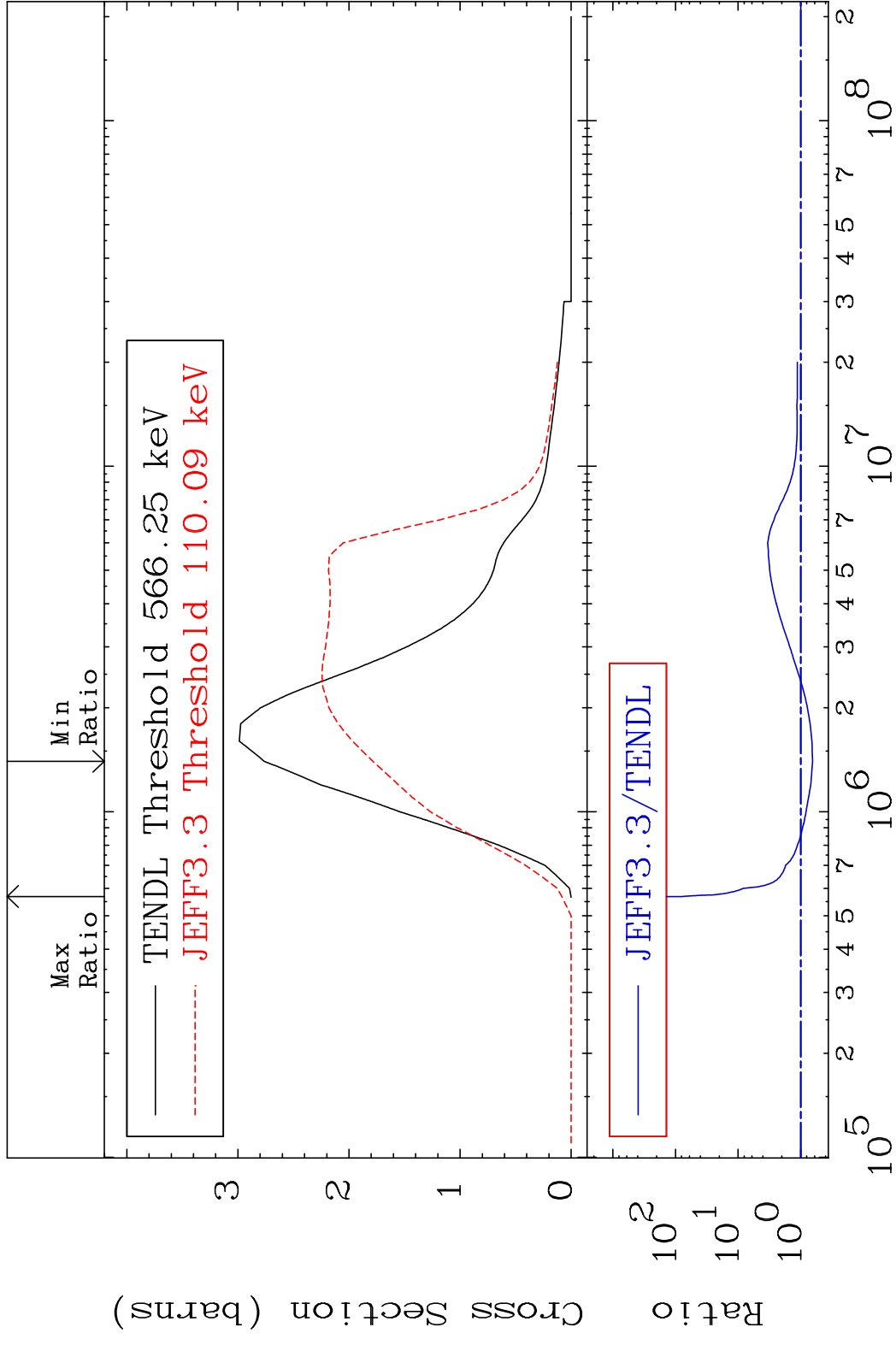


MAT 9352

(n, n') Continuum

93-Np-239

Cross Section -35.40 To 7660. %



32

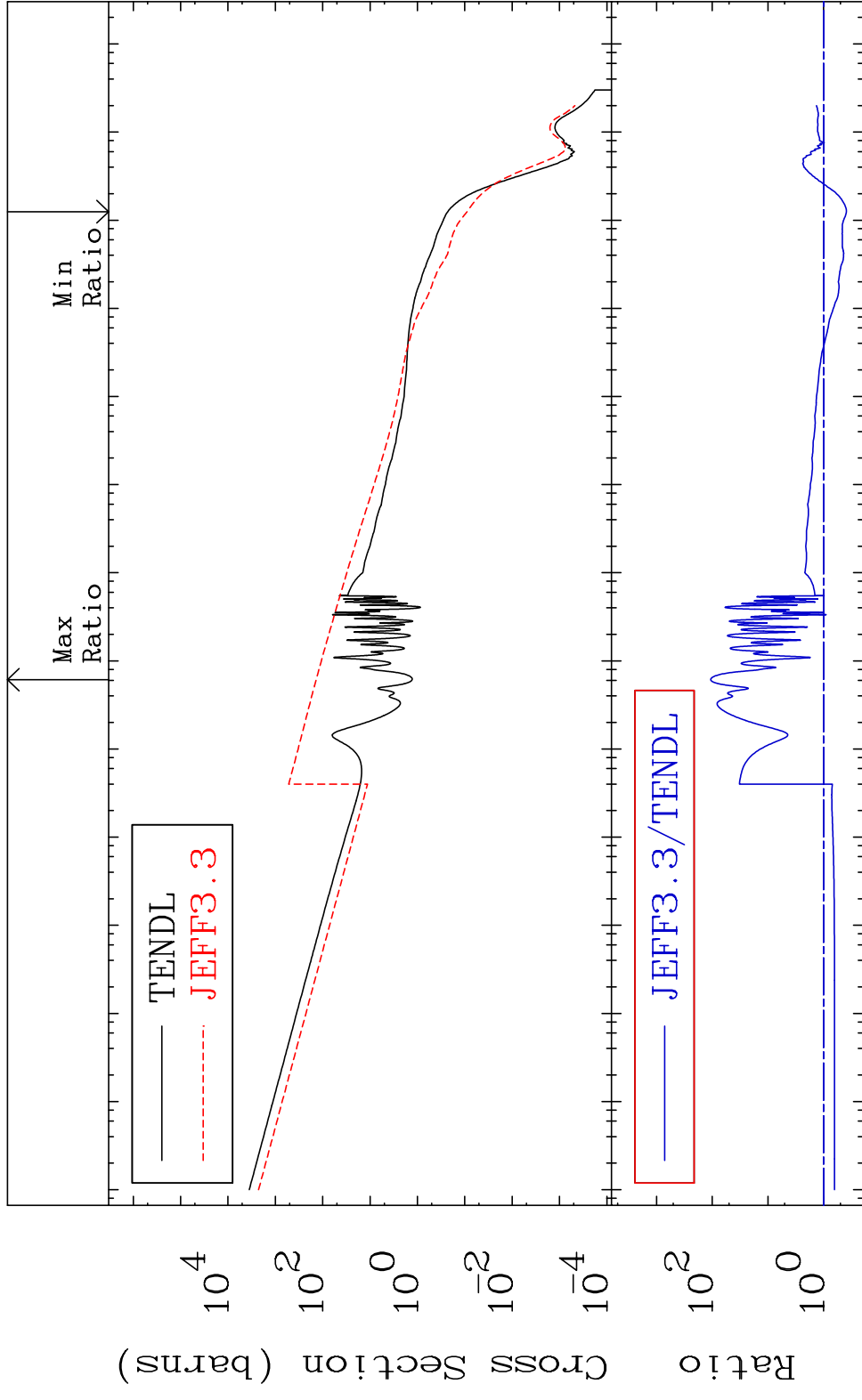
Incident Energy (eV)

93-Np-239

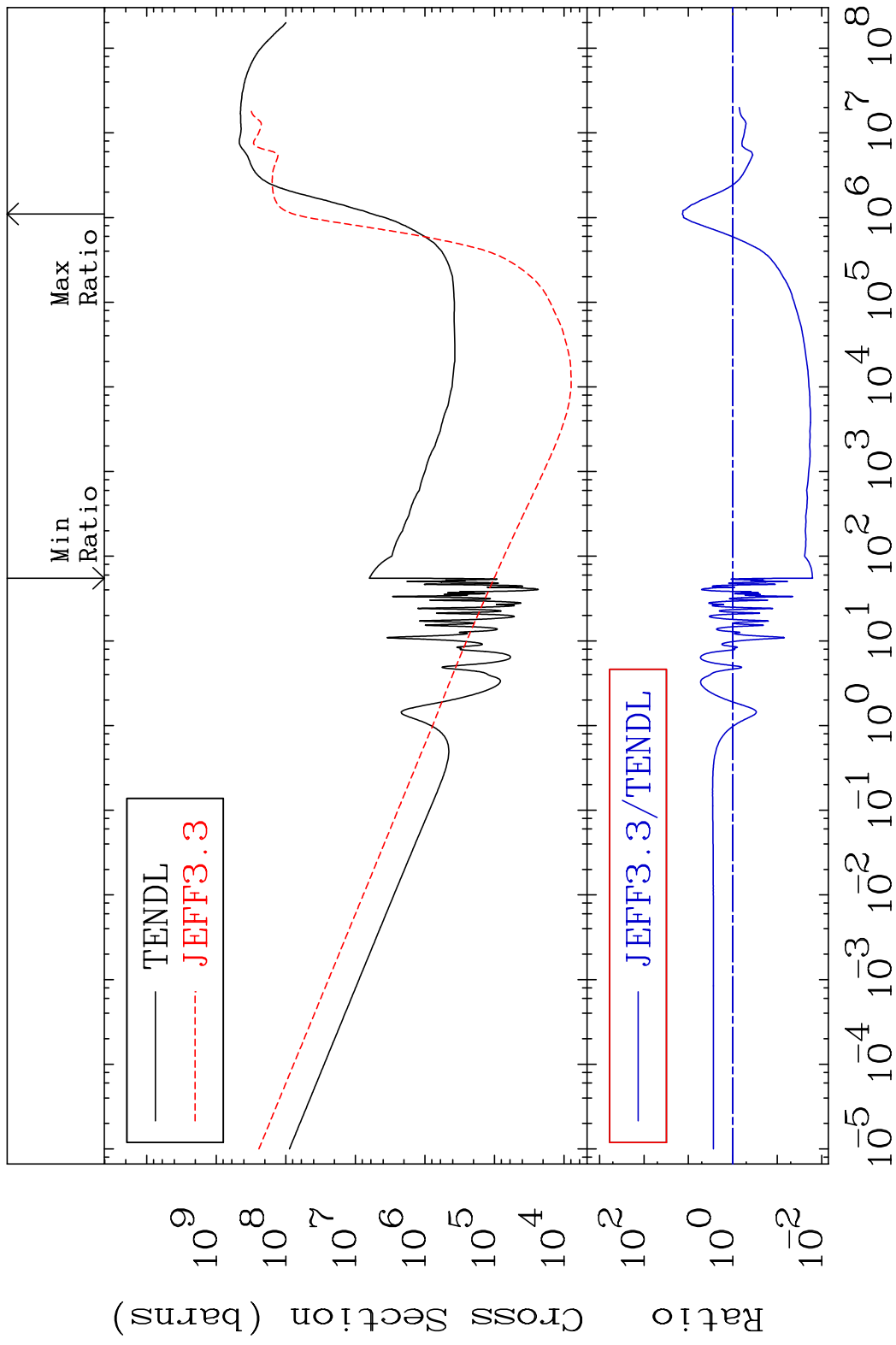
MAT 9352

(n, γ)
Cross Section -60.88 To 9999. %

93-Np-239



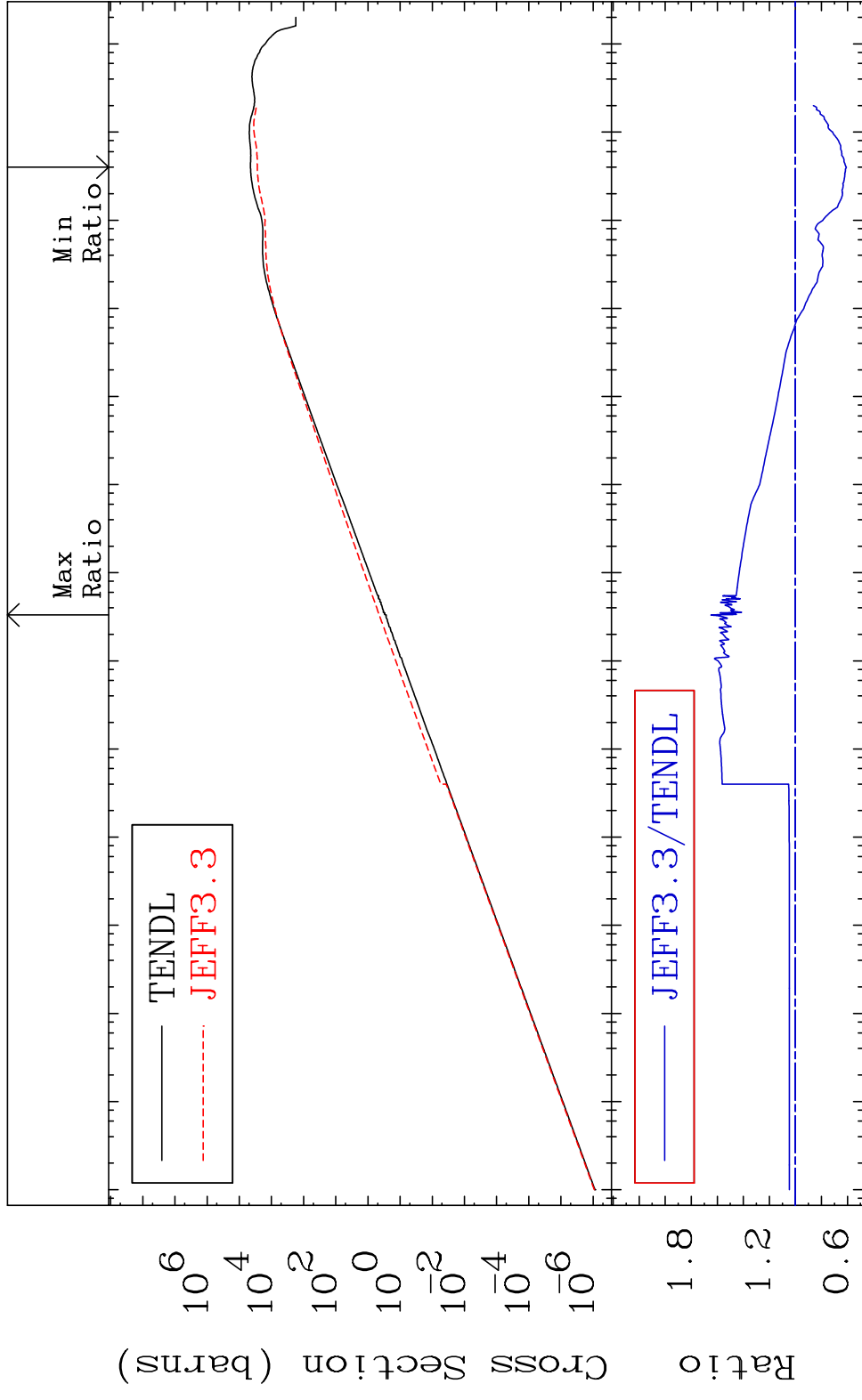
MAT 9352 Kerma total (eV-barns) 93-Np-239
 Cross Section -98.39 To 1270. %



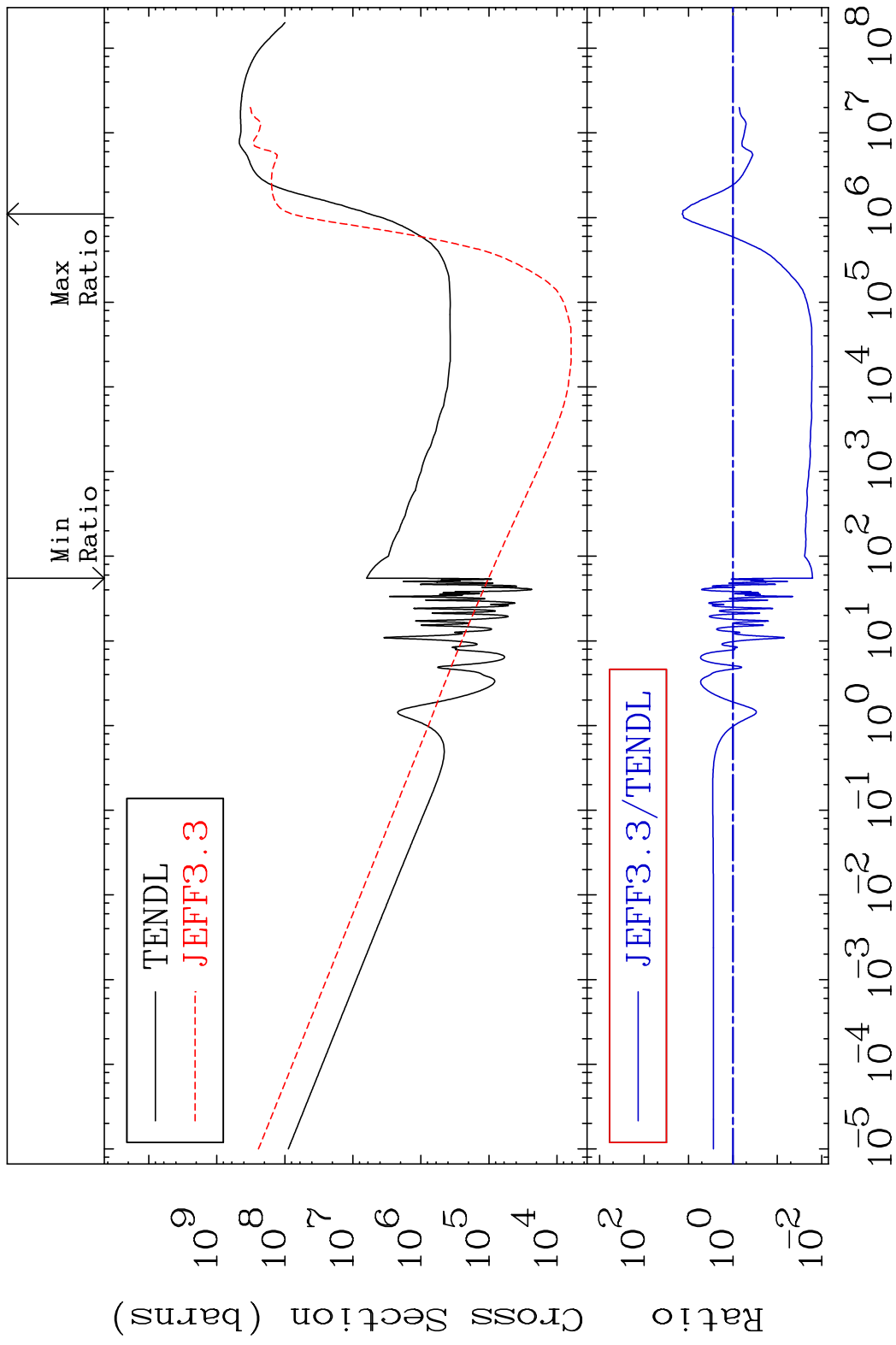
MAT 9352

Kerma elastic
Cross Section

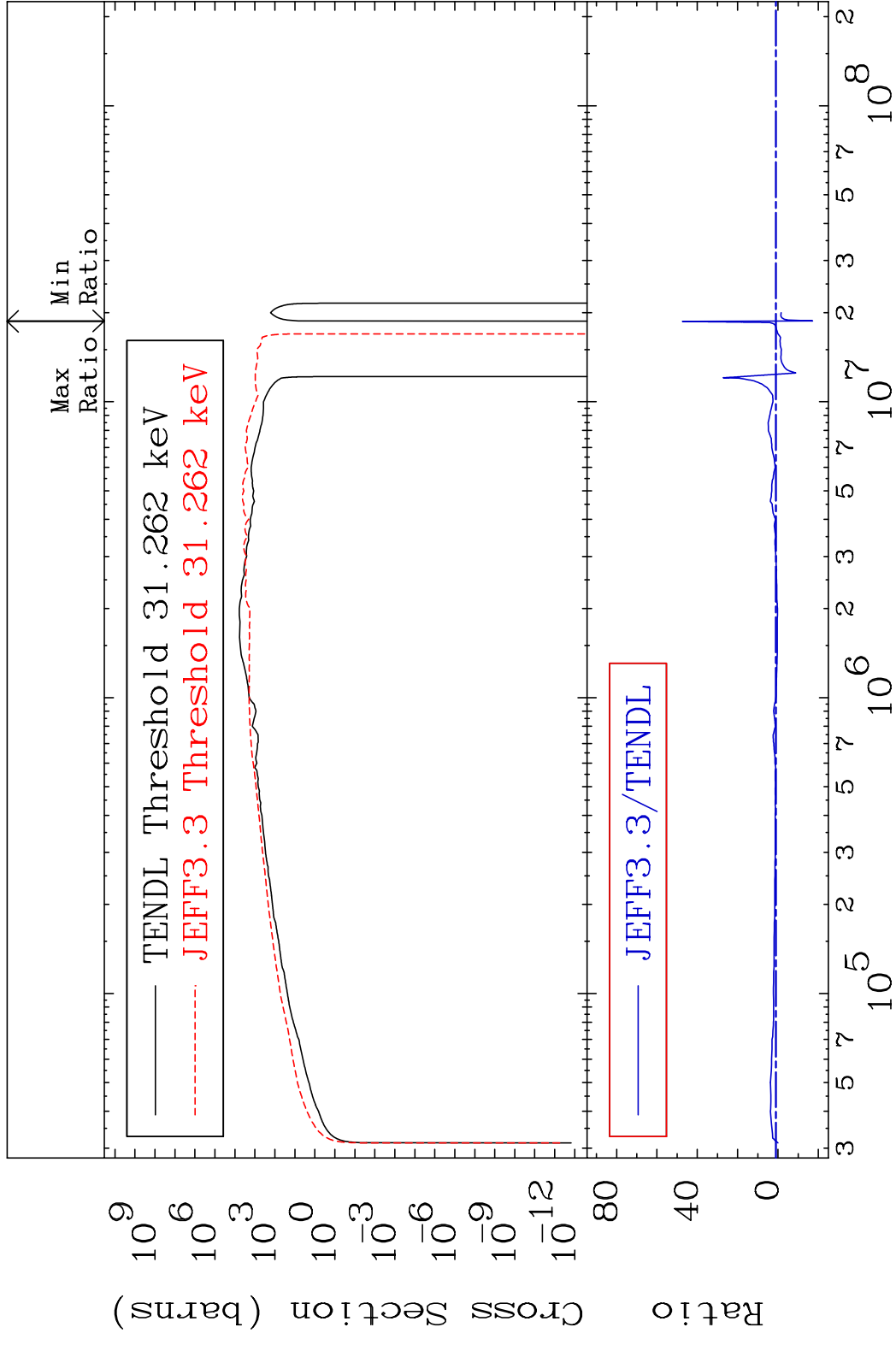
93-Np-239
-39.12 To 65.05 %



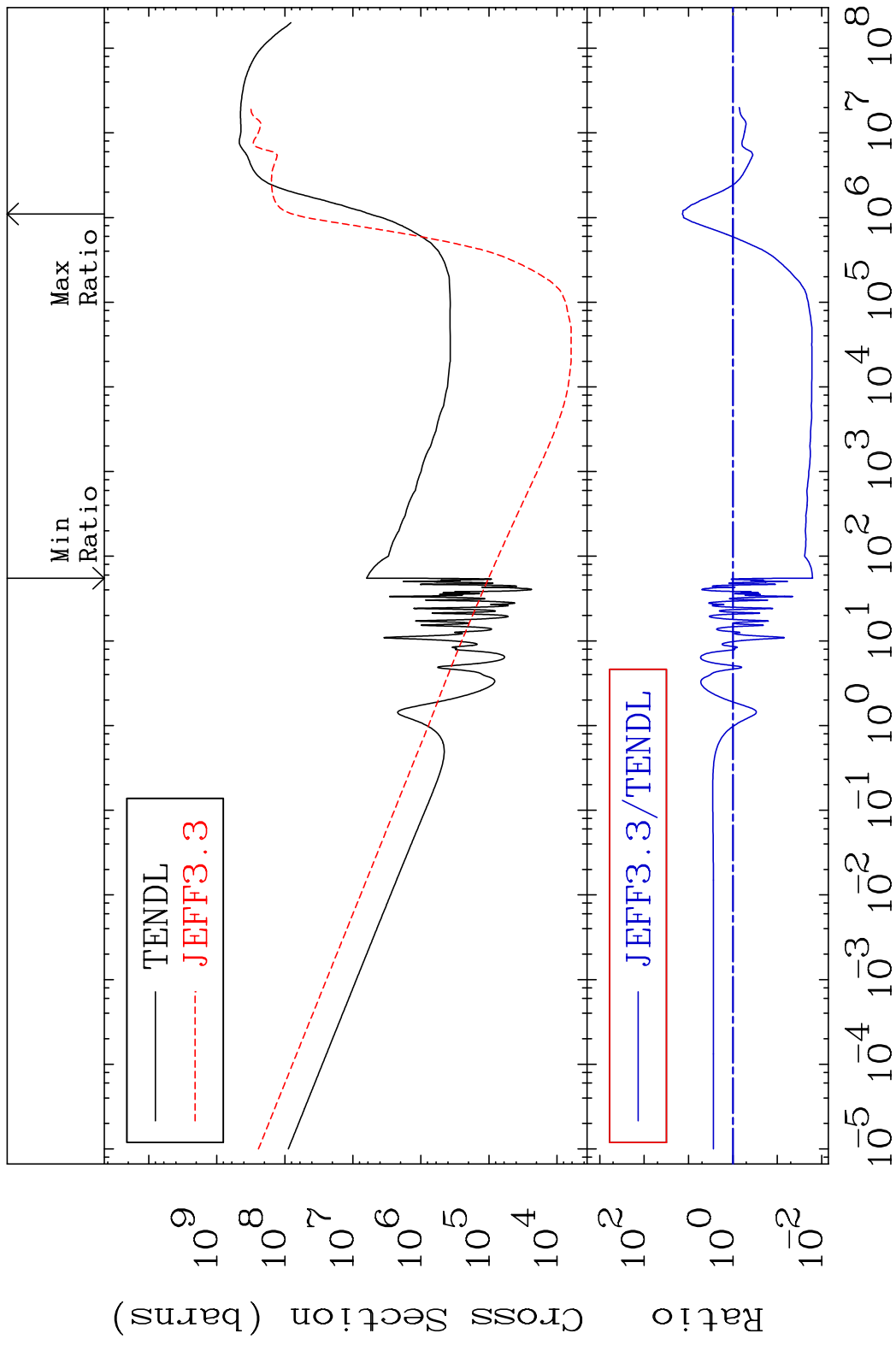
MAT 9352 Kerma non-elastic (all but mt2) 93-Np-239
 Cross Section -98.39 To 1275. %



MAT 9352 Kerma inelastic (mt51-91) 93-Np-239
 Cross Section -1813. To 4641. %

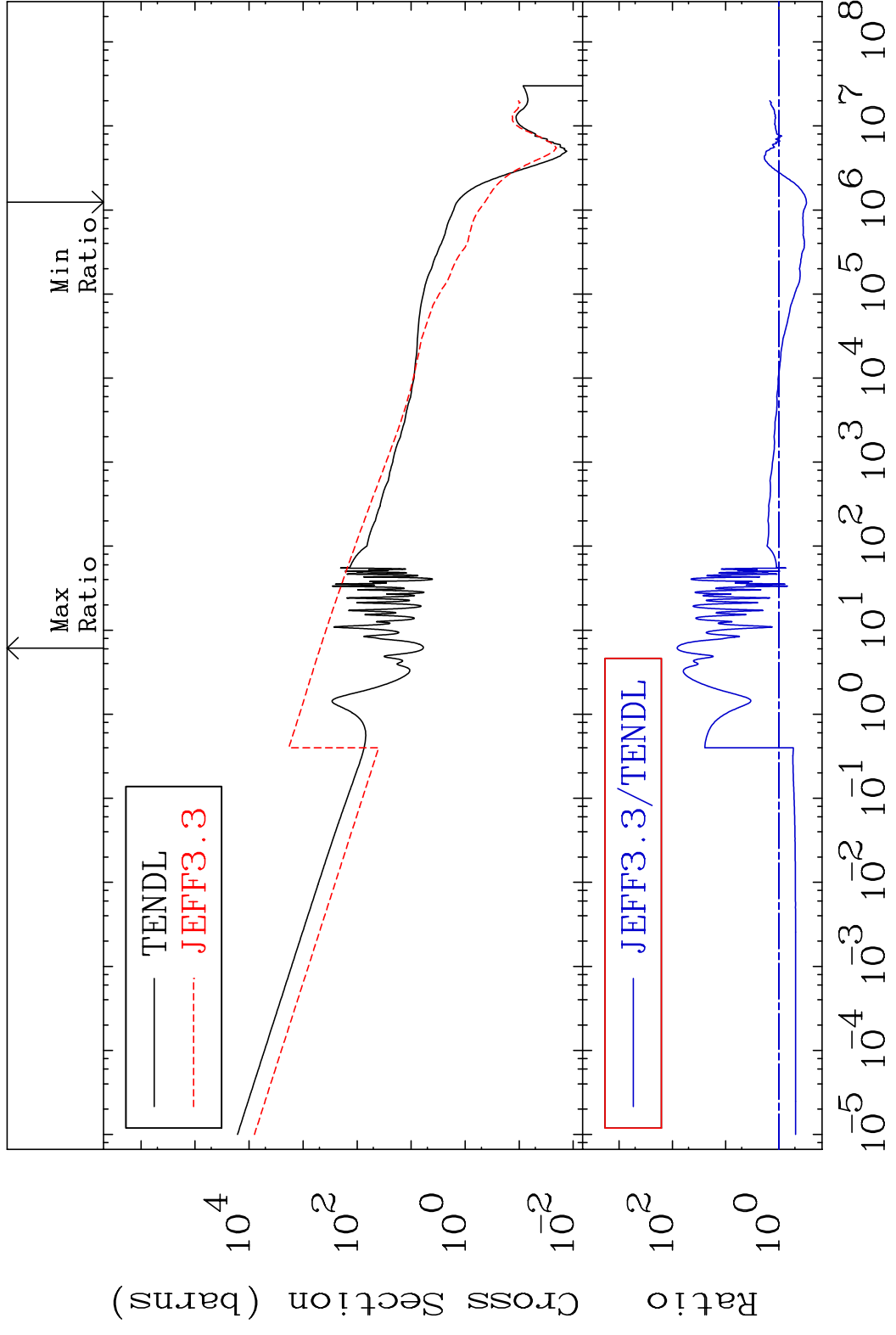


MAT 9352 Kerma fission (mt18 or mt19-20-21-38) 93-Np-239
 Cross Section -98.39 To 1280. %



MAT 9352

Kerma capture (mt102) 93-Np-239
Cross Section -69.50 To 8028. %



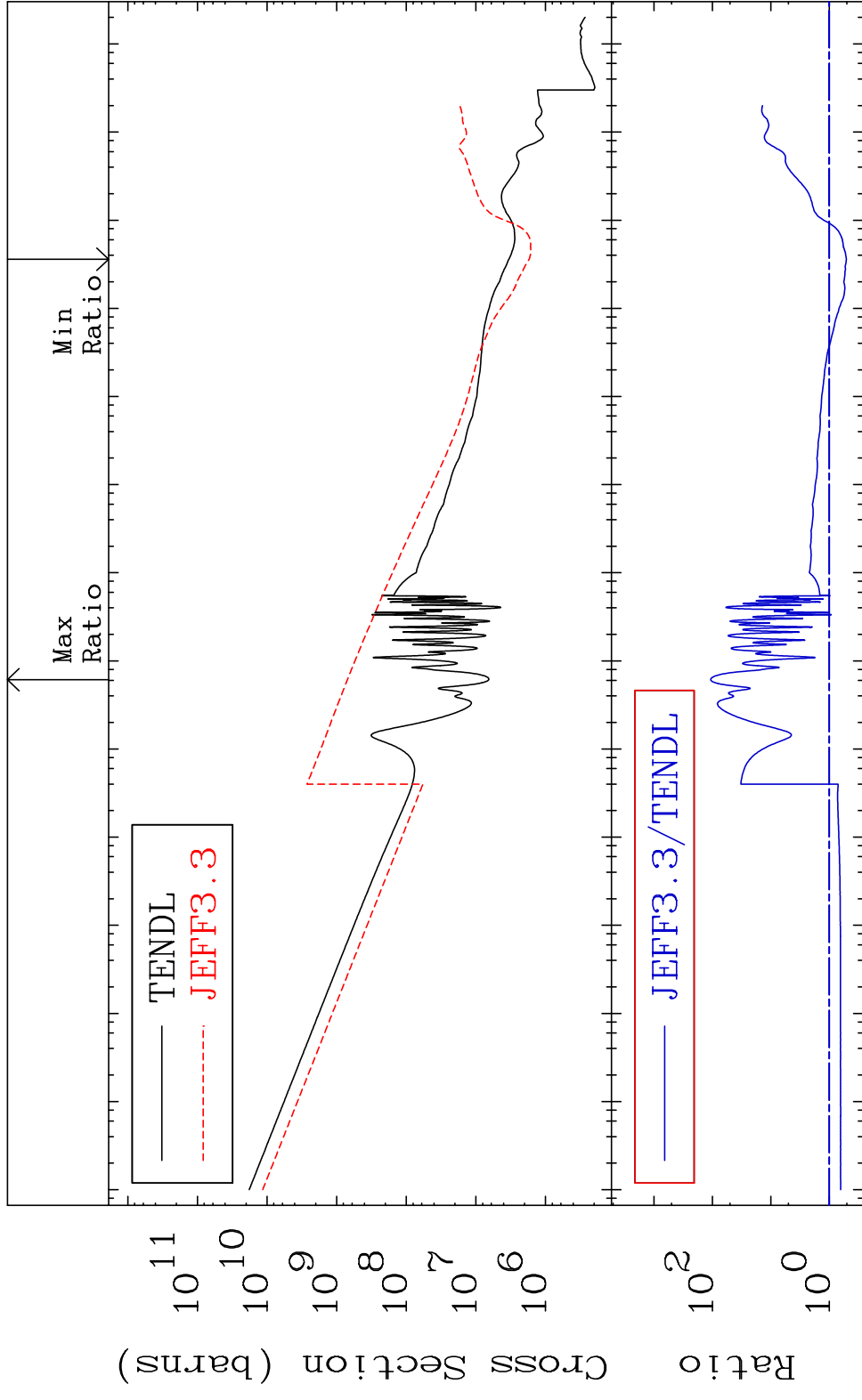
39

Incident Energy (eV)

93-Np-239

MAT 9352

Total photon (eV-barns) 93-Np-239
Cross Section -48.92 To 9999. %

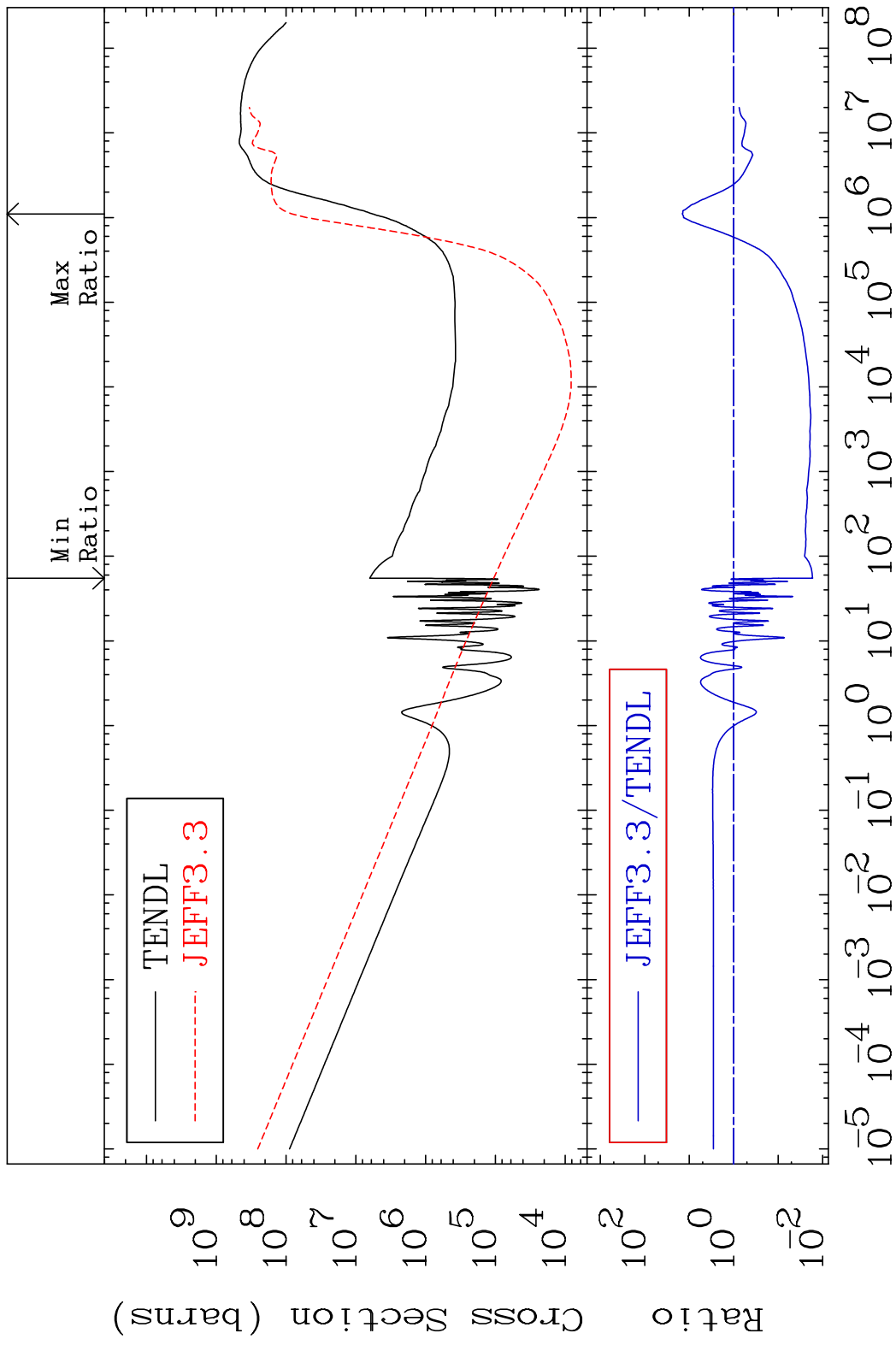


40

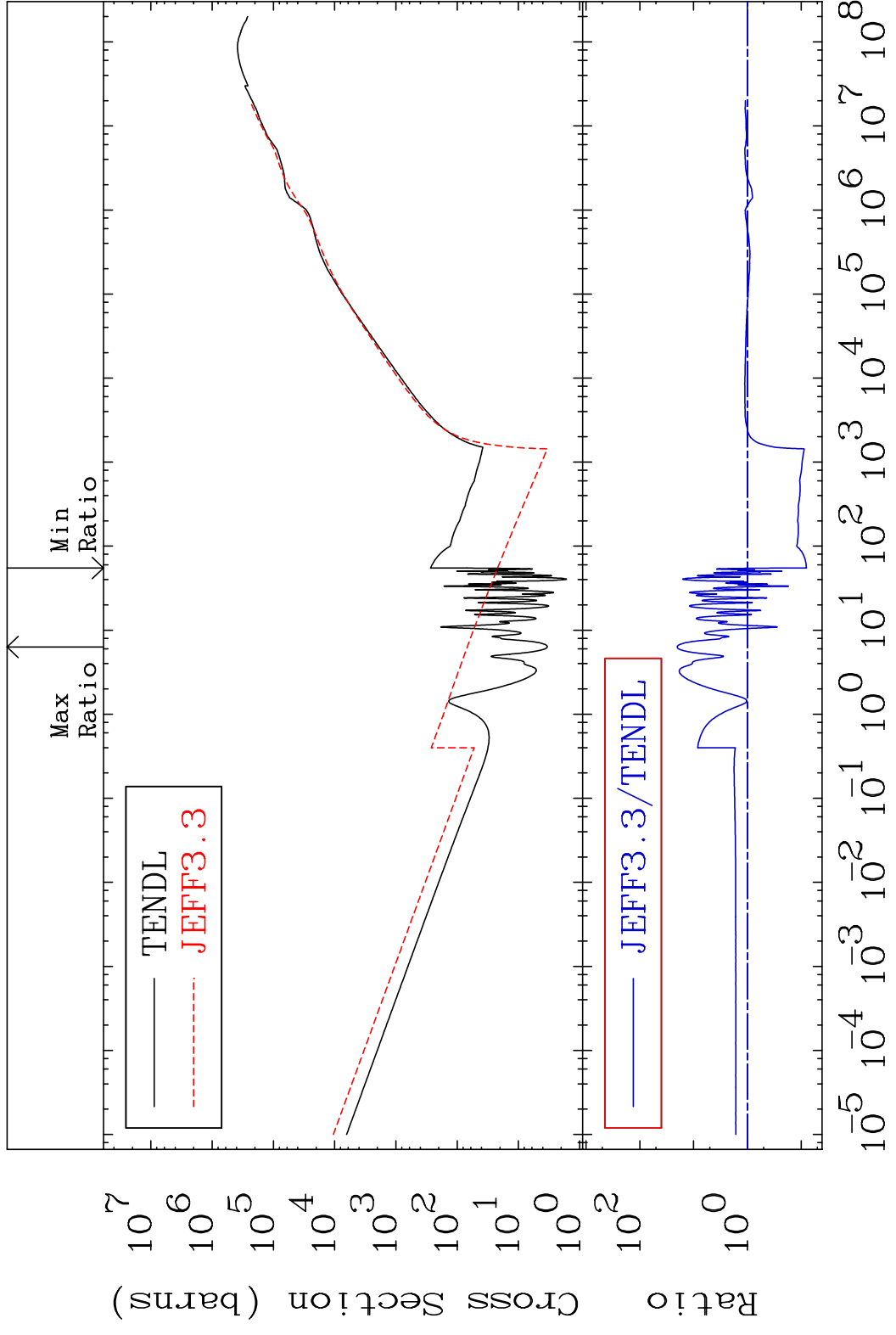
Incident Energy (eV)

93-Np-239

MAT 9352 Total kinematic kerma (high limit) 93-Np-239
 Cross Section -98.32 To 1326. %



MAT 9352 Dpa total (eV-barns) 93-Np-239
 Cross Section -91.99 To 1921. %



42 Incident Energy (eV) 93-Np-239

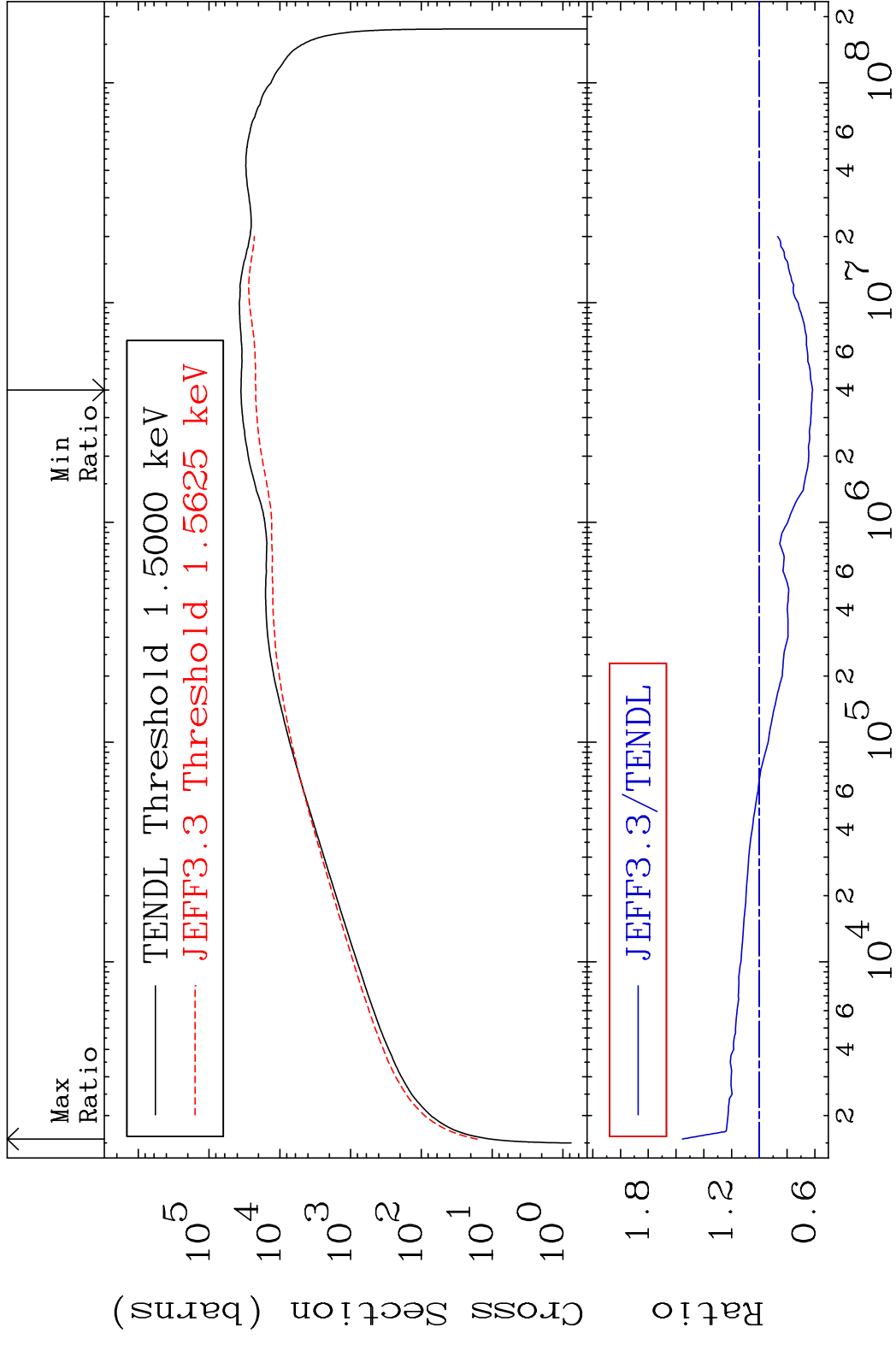
MAT 9352

Dpa elastic (mt2)

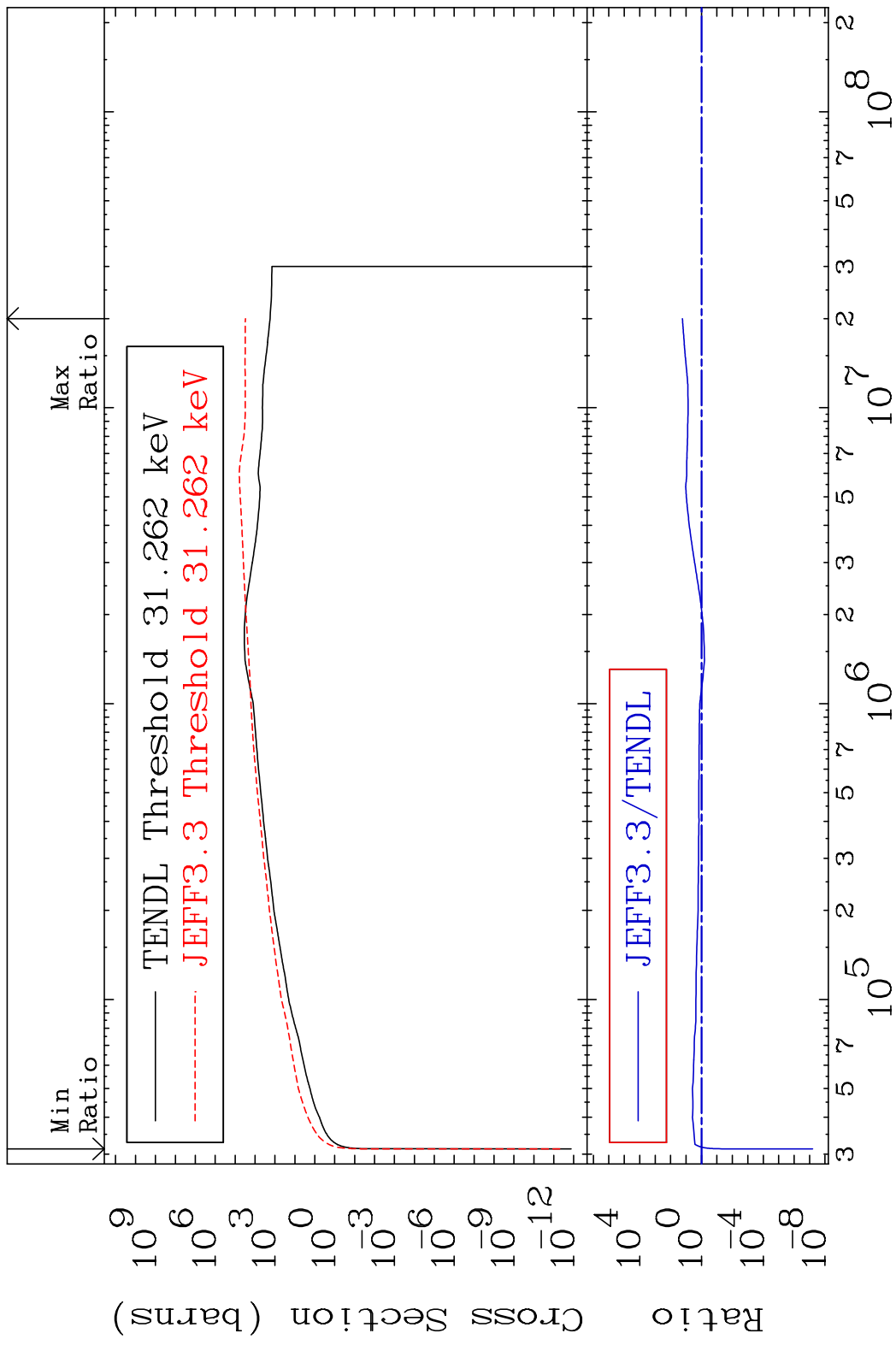
93-Np-239

Cross Section

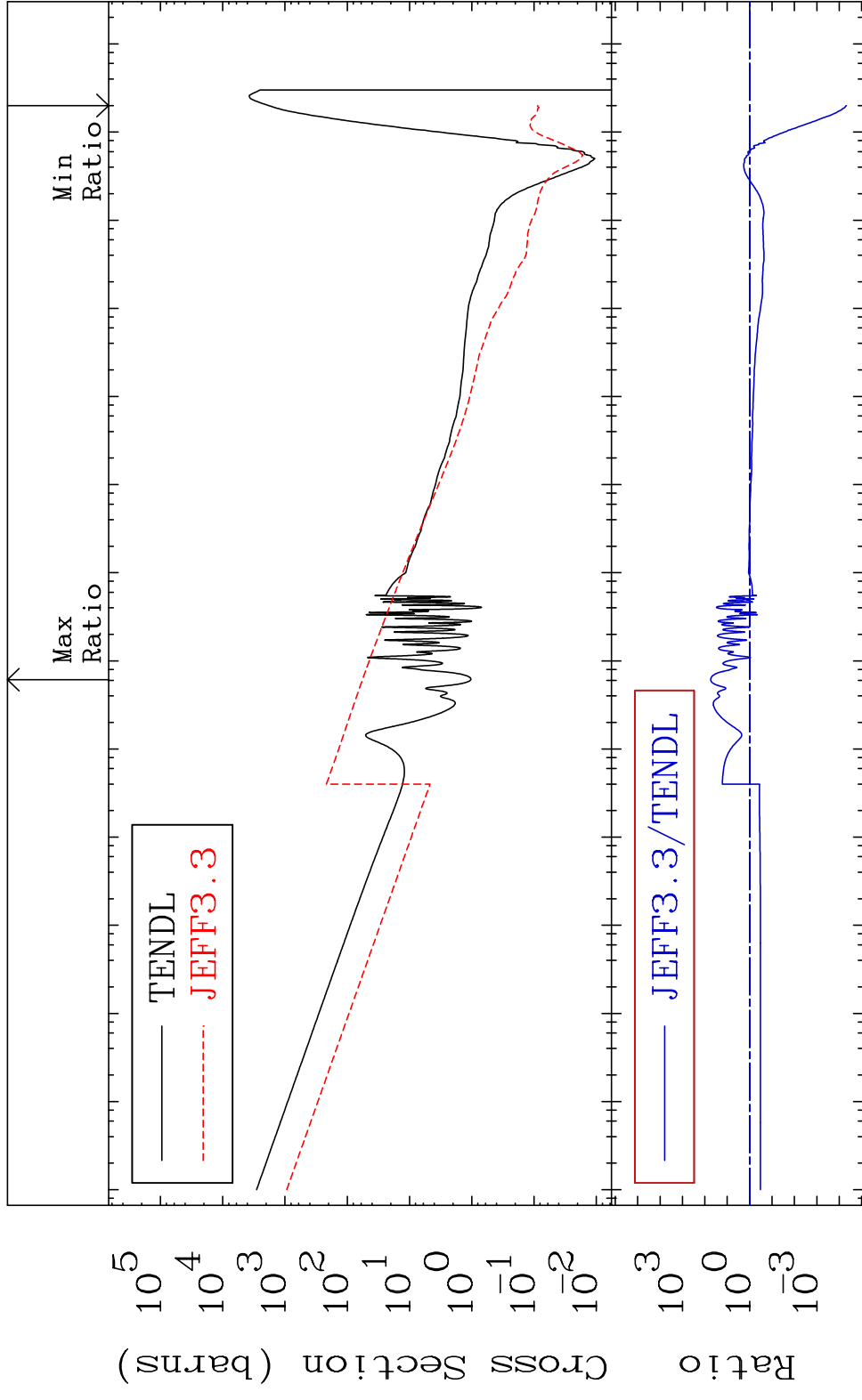
-38.36 To 55.43 %



MAT 9352 Dpa inelastic (mt51-91) 93-Np-239
 Cross Section -100.0 To 1630. %



MAT 9352 Dpa disappearance (mt102 -120) 93-Np-239
 Cross Section -100.0 To 5378. %



Ratio
 10^5 10^4 10^3 10^2 10^1 10^0 10^{-1} 10^{-2}
 Cross Section (barns)
 10^3 10^0 10^{-3}

45 Incident Energy (eV) 93-Np-239