

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

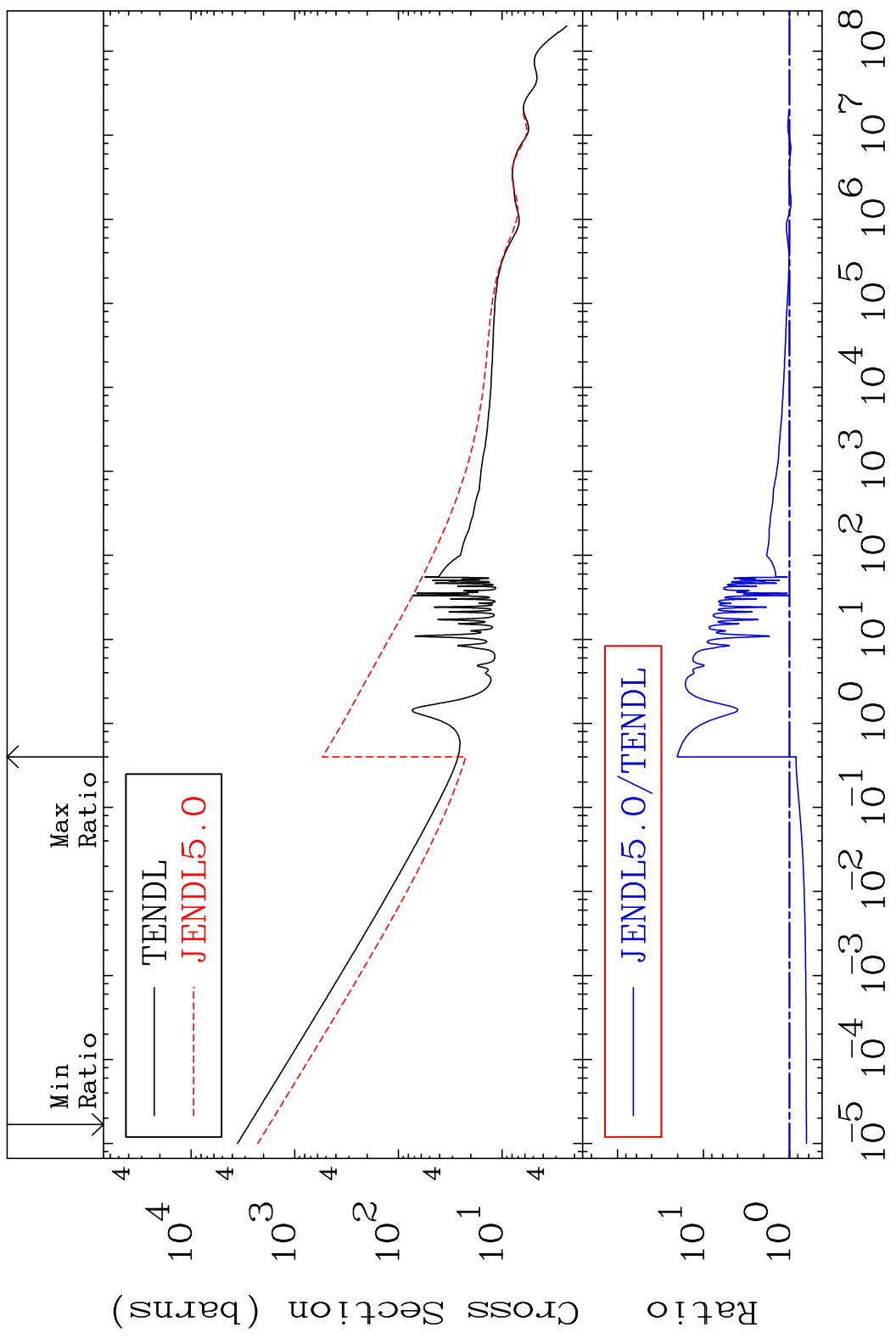
Press Mouse Button to Start

MAT 9352

Total

93-Np-239

Cross Section -36.25 To 1922. %



1

Incident Energy (eV)

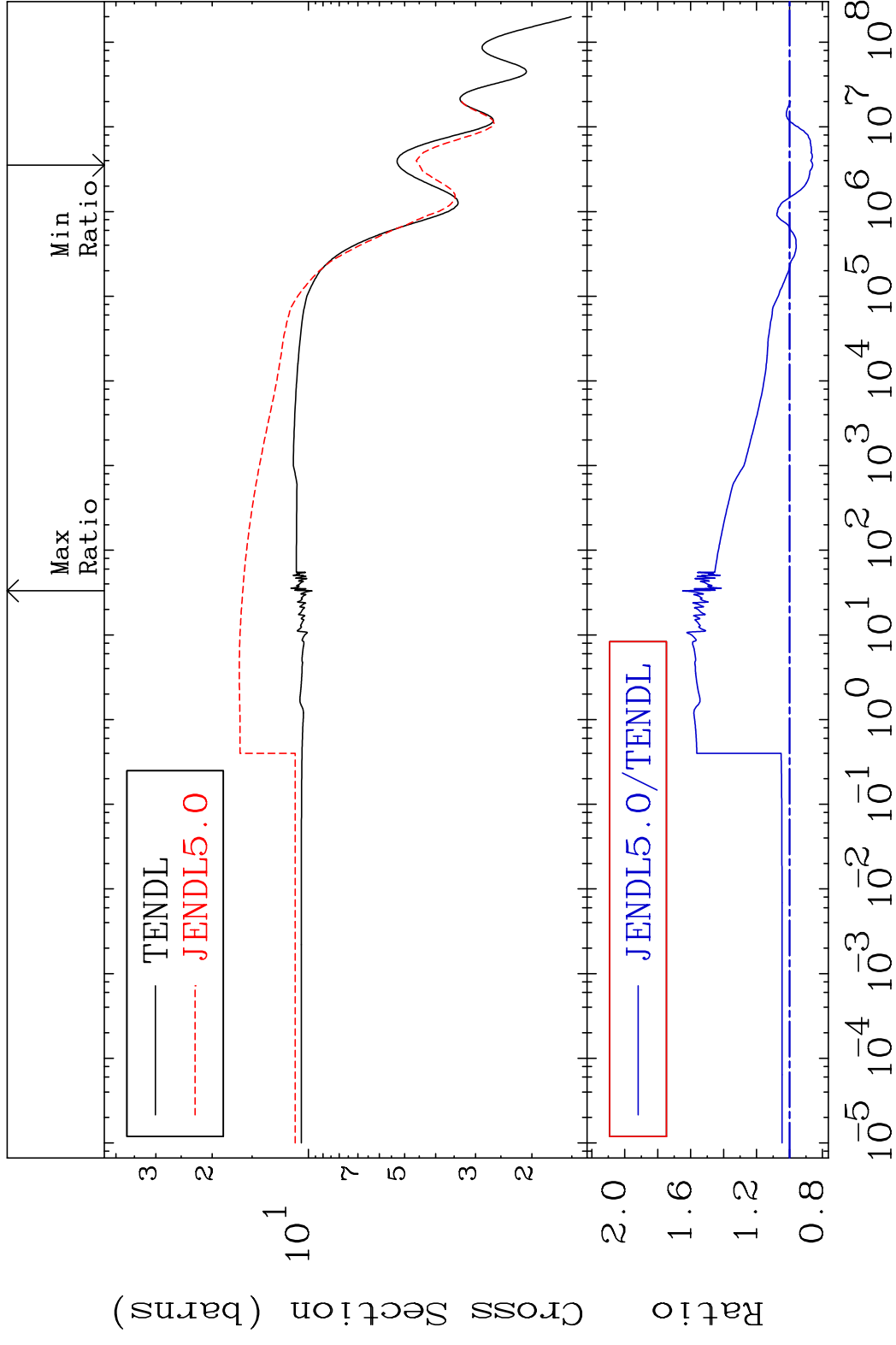
93-Np-239

MAT 9352

Elastic

93-Np-239

Cross Section -13.96 To 65.06 %

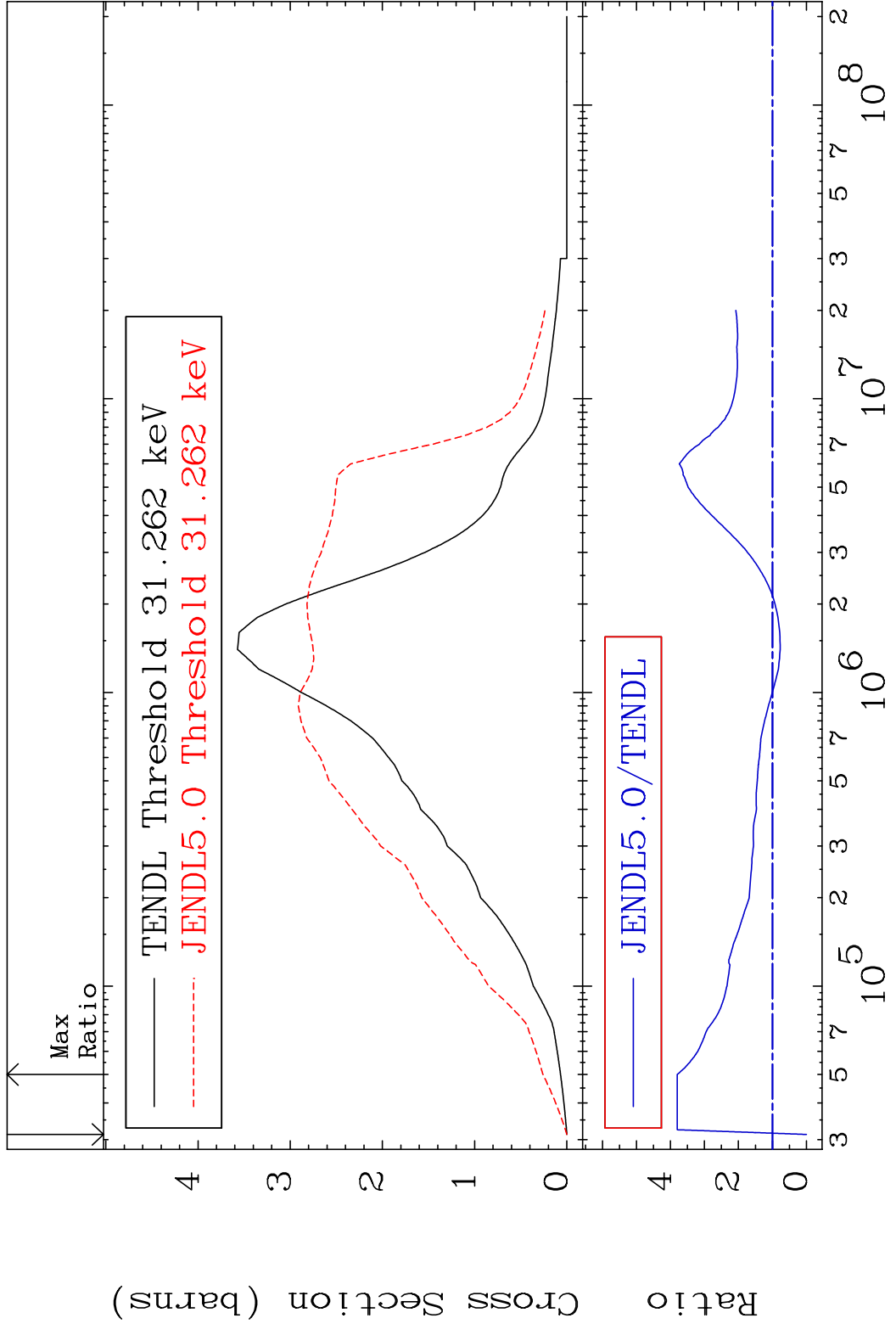


2

Incident Energy (eV)

93-Np-239

MAT 9352 Inelastic 93-Np-239
 Cross Section -100.0 To 280.2 %



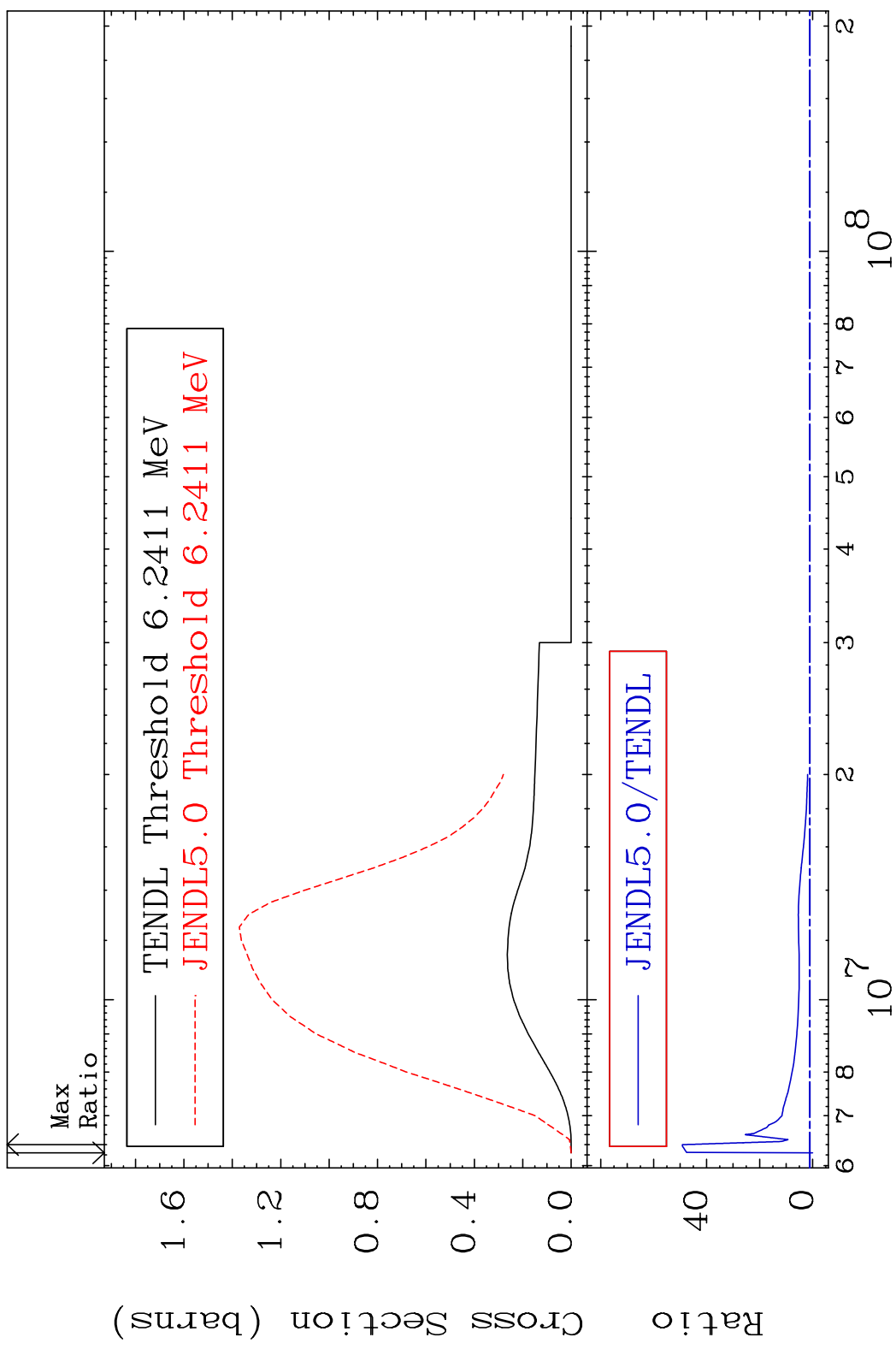
3 3 Incident Energy (eV) 93-Np-239

MAT 9352

(n,2n)

93-Np-239

Cross Section -100.0 To 4817. %



4

Incident Energy (eV)

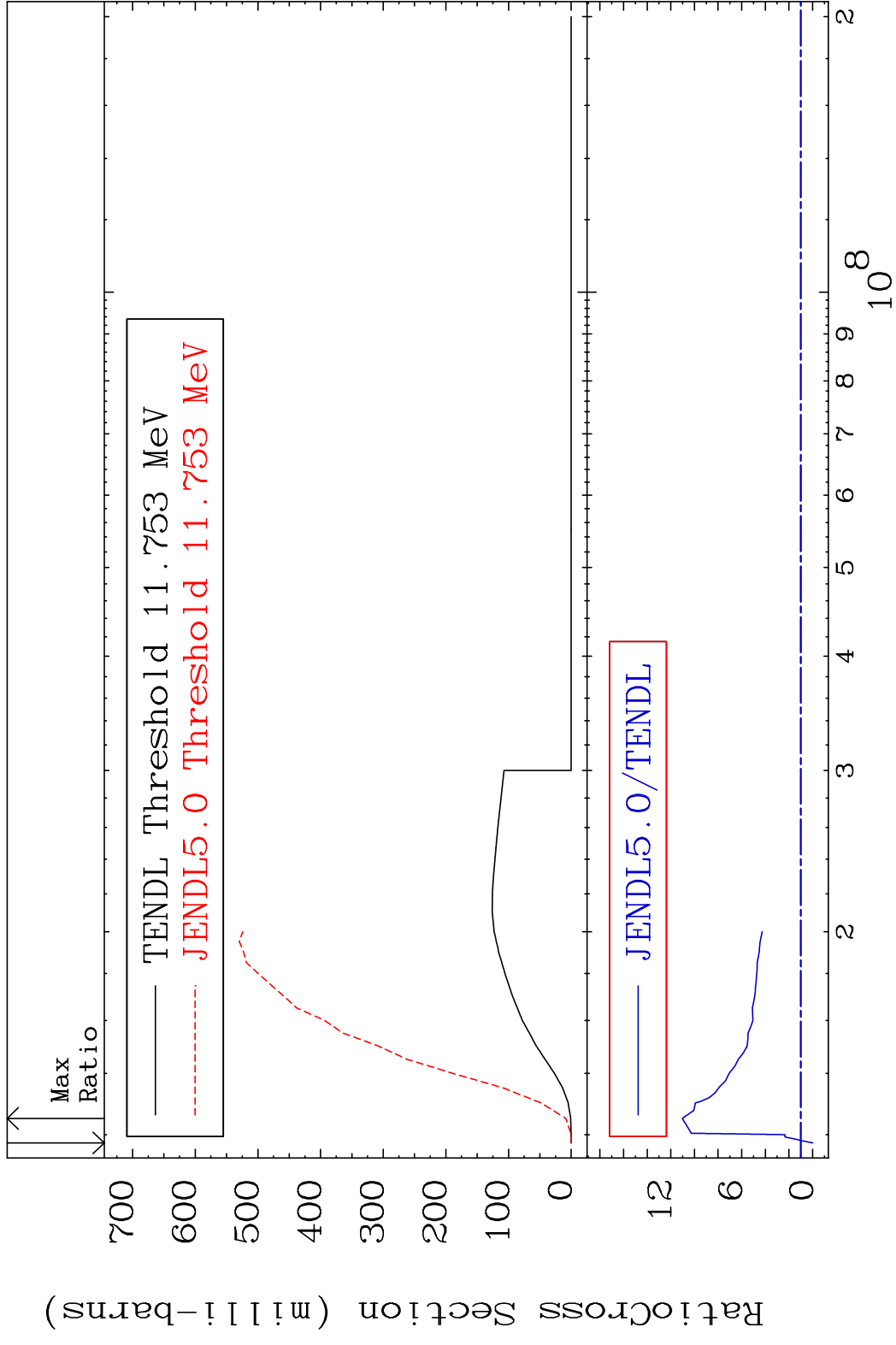
93-Np-239

MAT 9352

(n,3n)

93-Np-239

Cross Section -100.0 To 1002. %



5

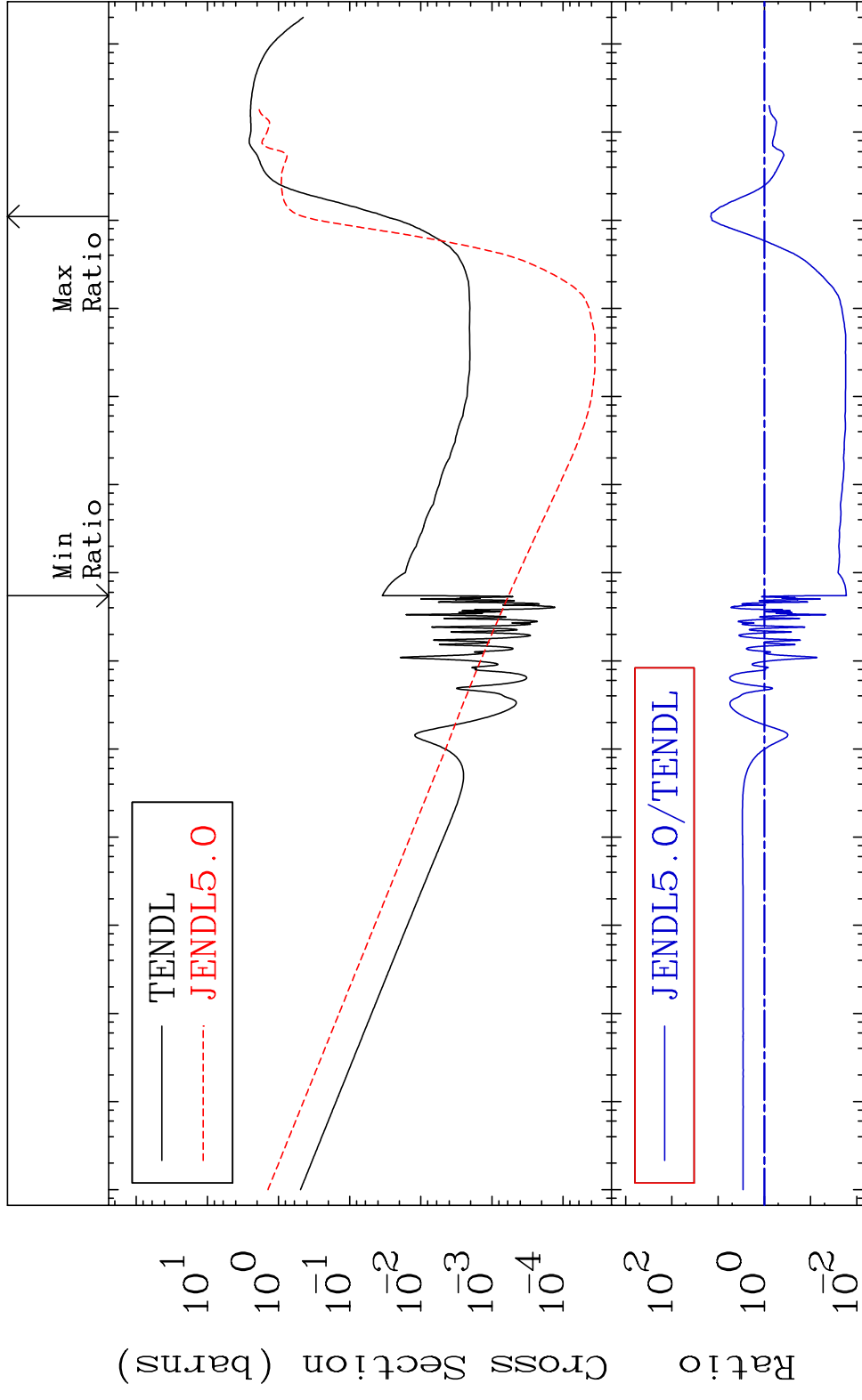
Incident Energy (eV)

93-Np-239

MAT 9352

Fission
Cross Section -98.32 To 1345. %

93-Np-239

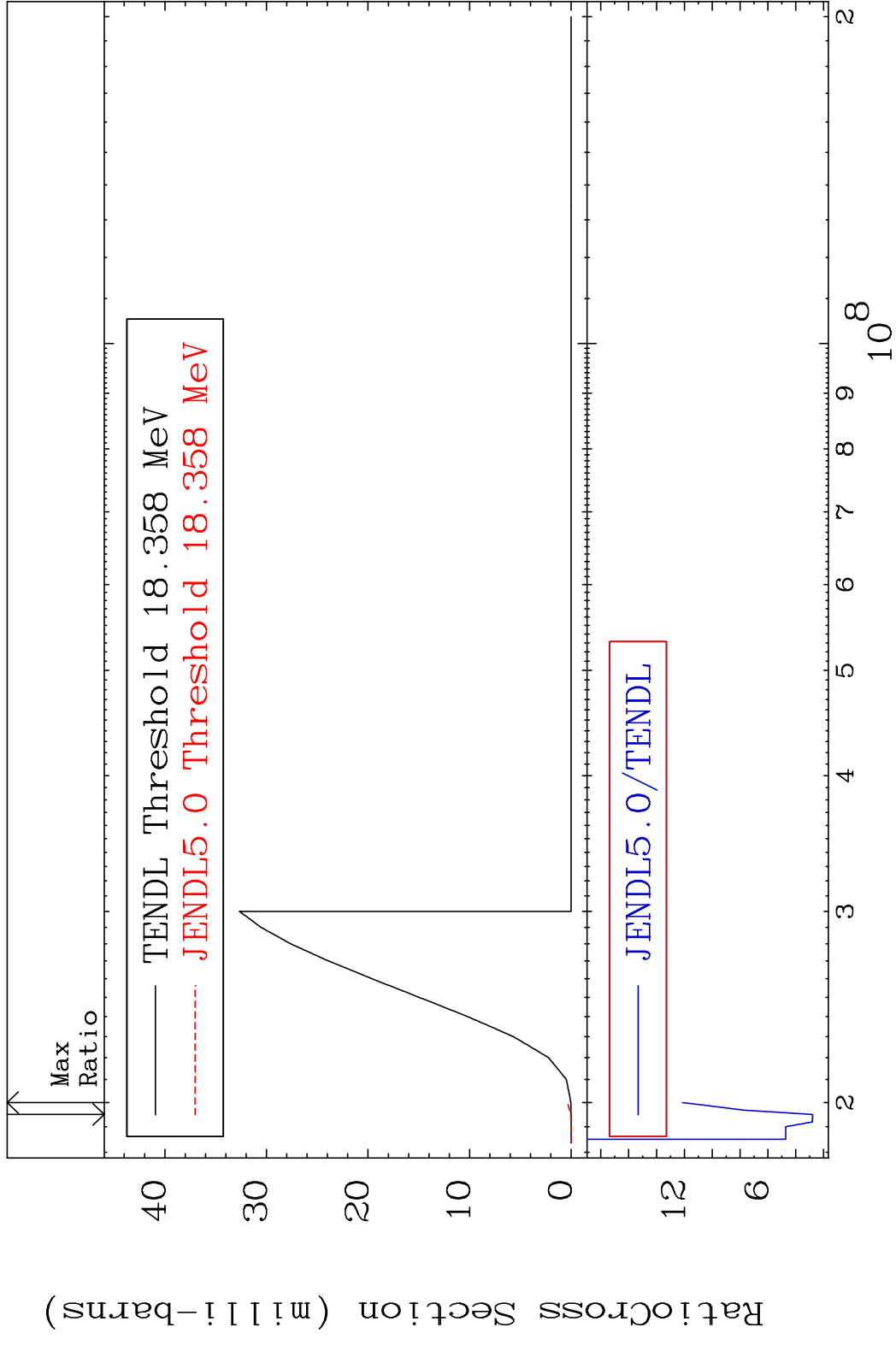


MAT 9352

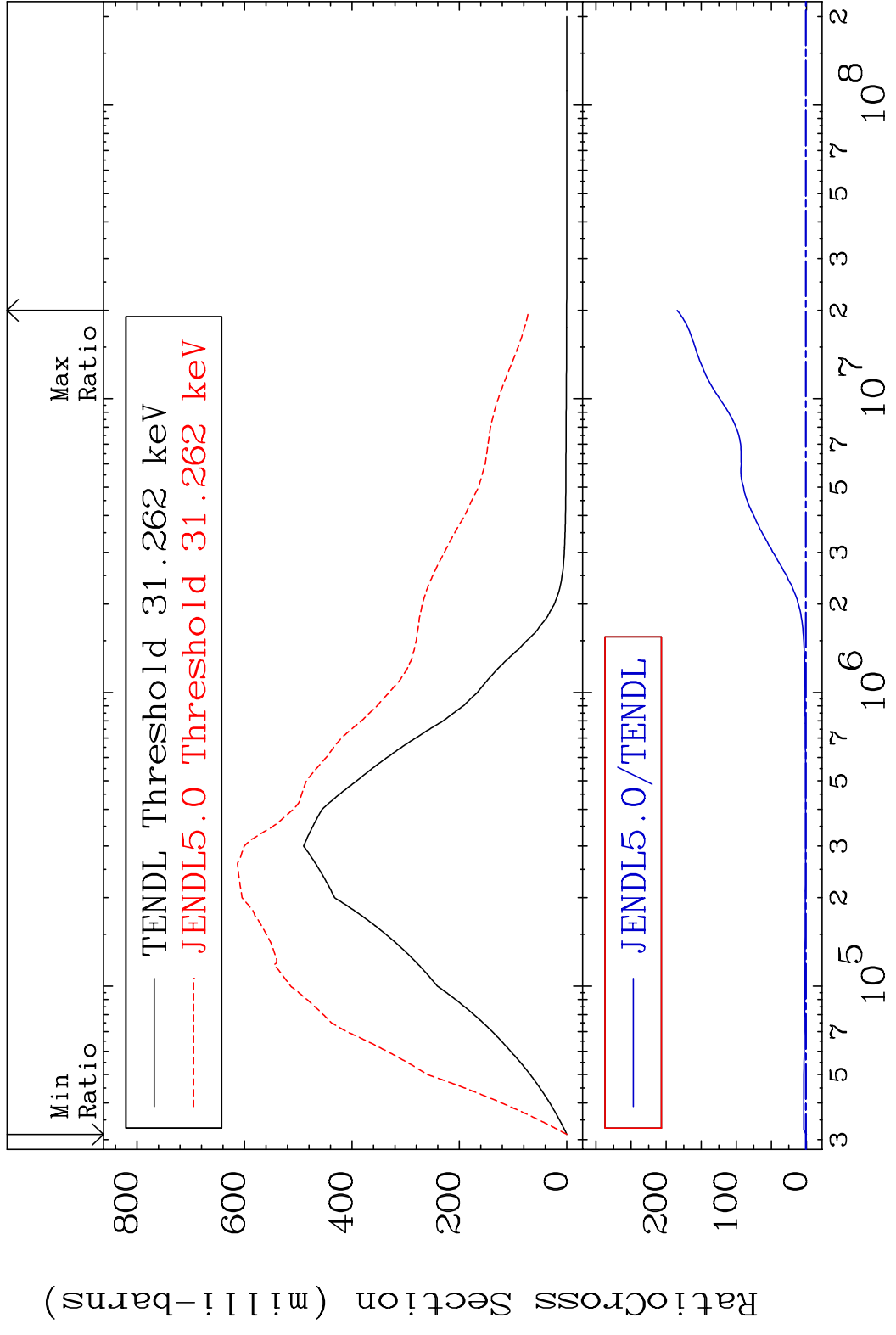
(n,4n)

93-Np-239

Cross Section 178.7 To 1114. %

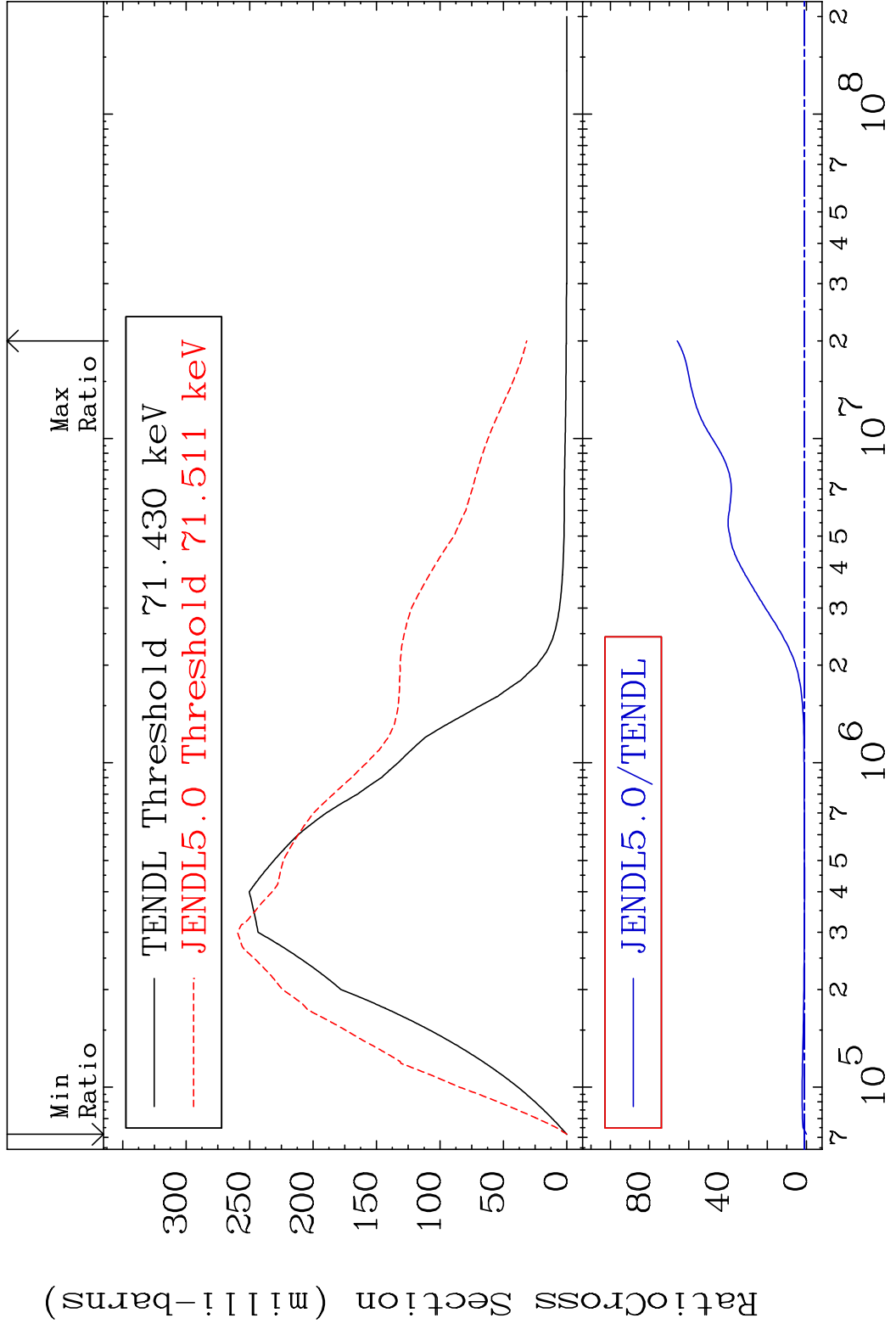


MAT 9352 MT= 51 (n, n') Level 93-Np-239
 Cross Section -100.0 To 9999. %



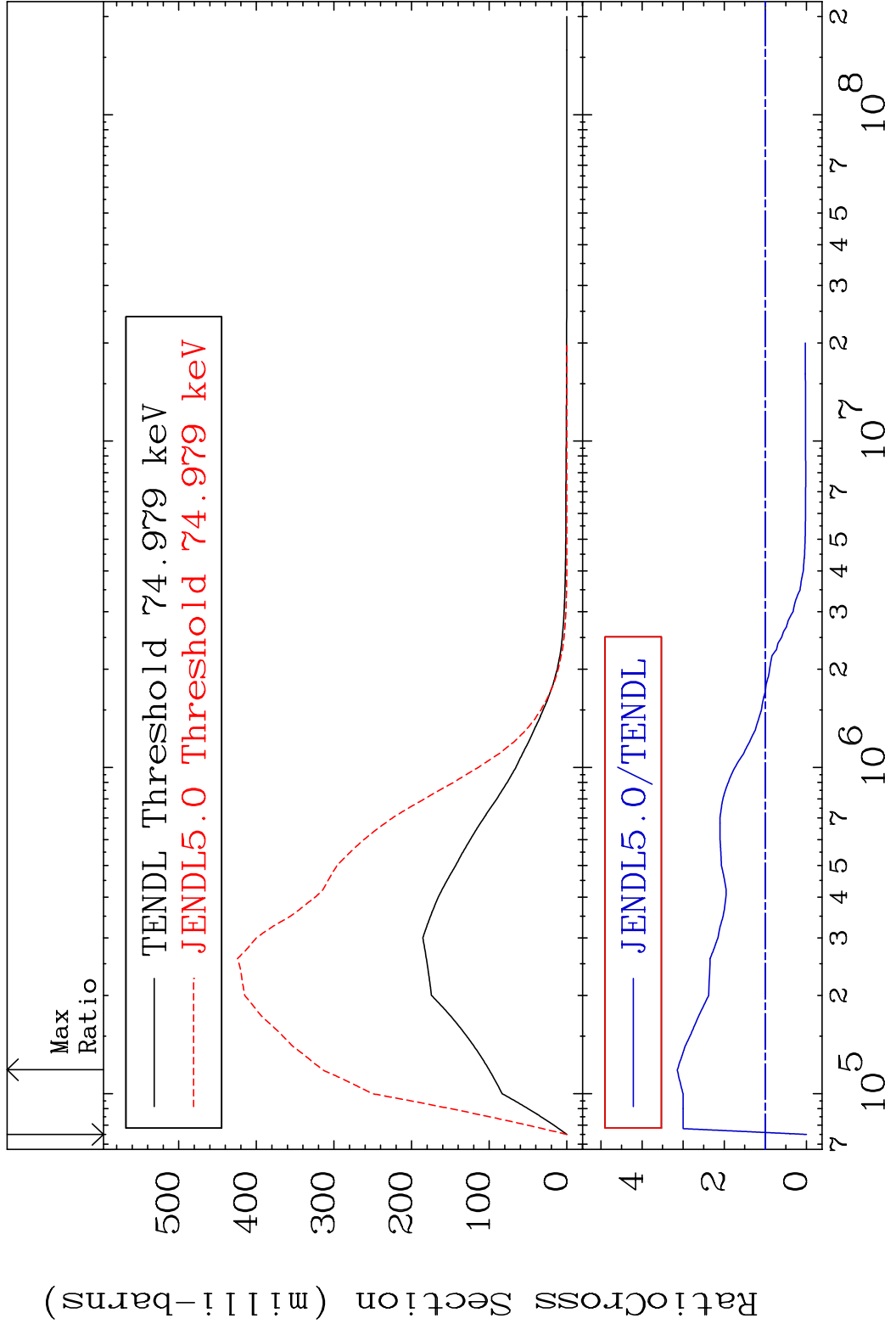
8 8 93-Np-239

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



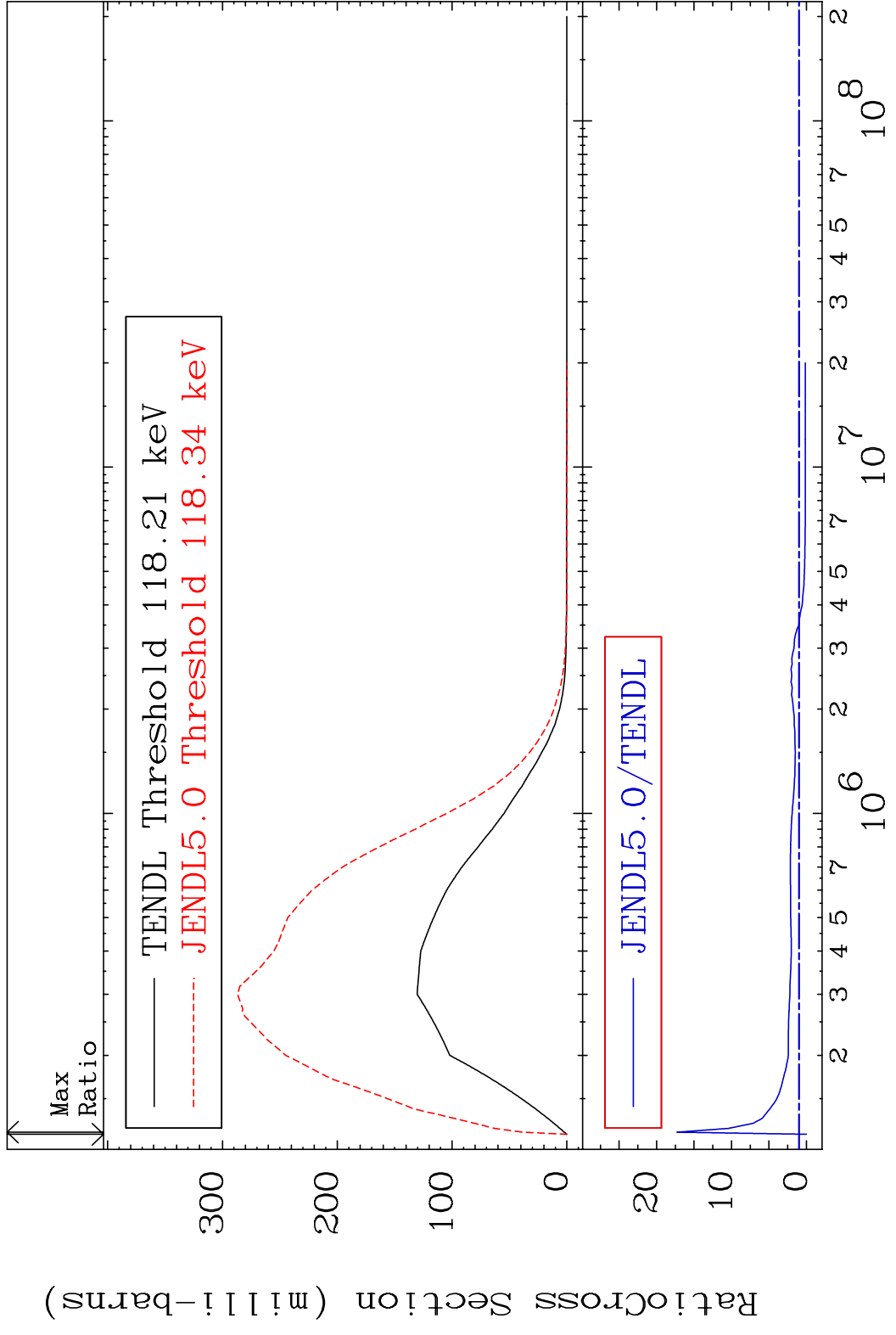
9 Incident Energy (eV) 93-Np-239

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

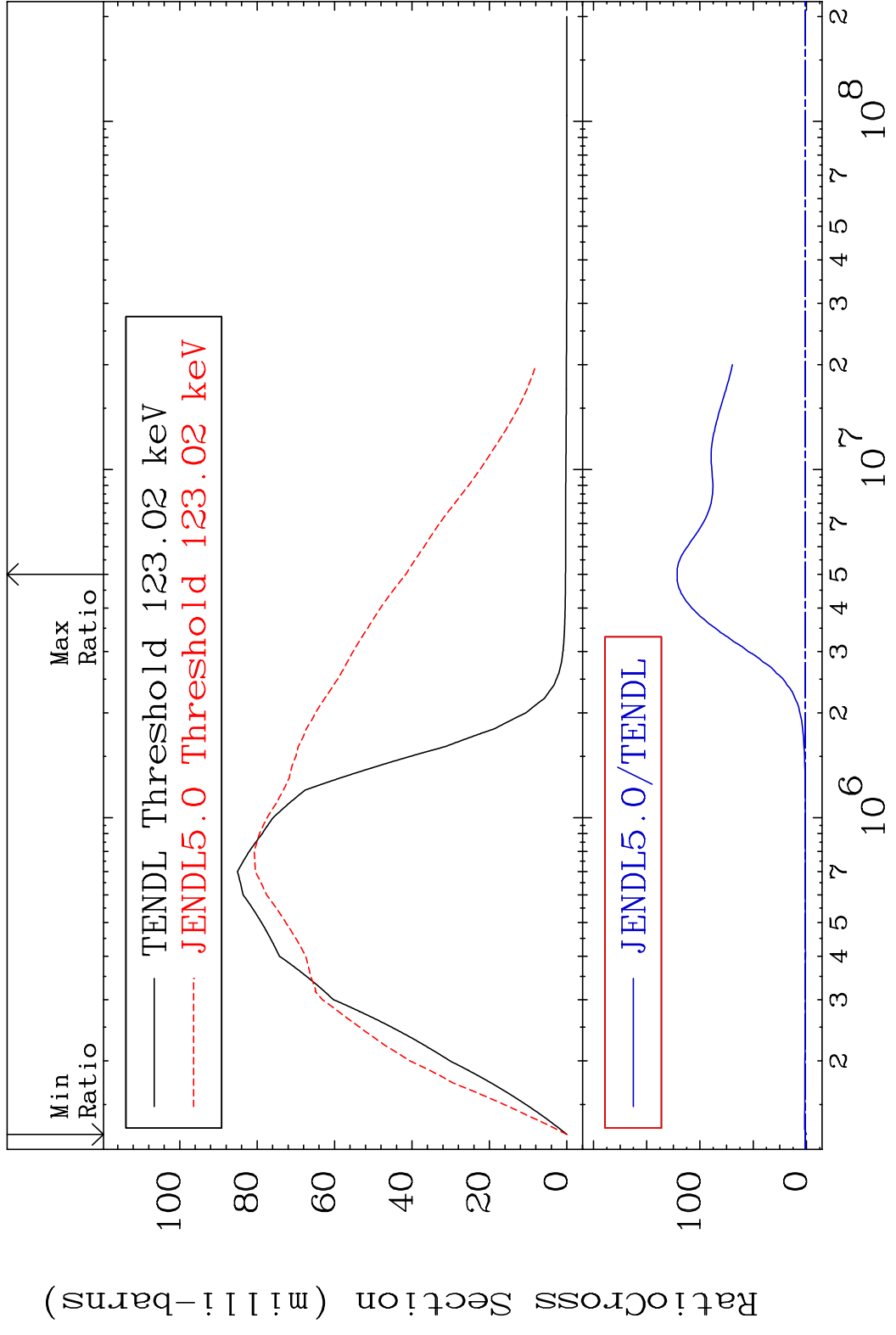


10 Incident Energy (eV) 93-Np-239

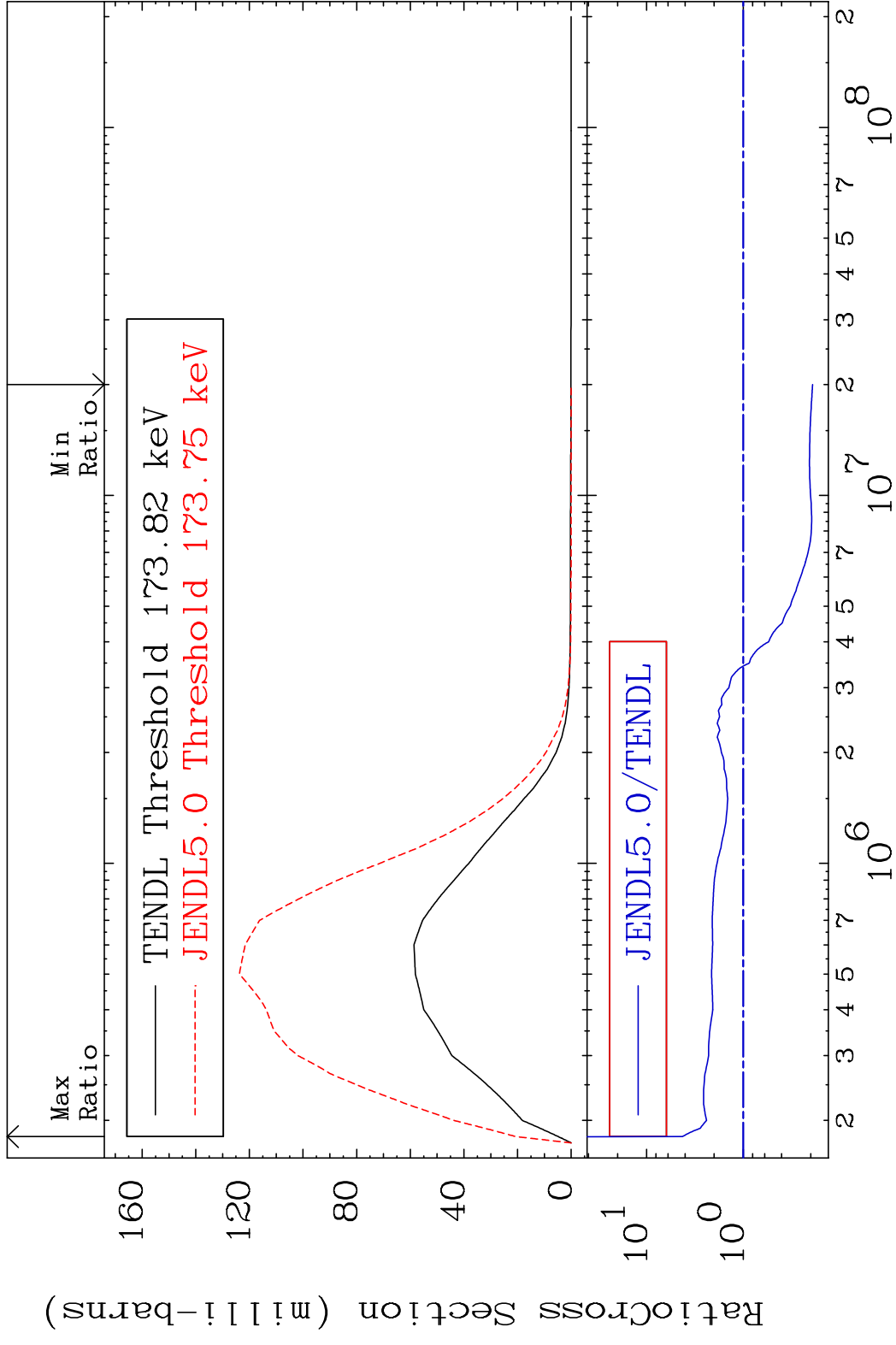
MAT 9352 MT= 54 (n,n') Level 93-Np-239
 Cross Section -100.0 To 1625. %



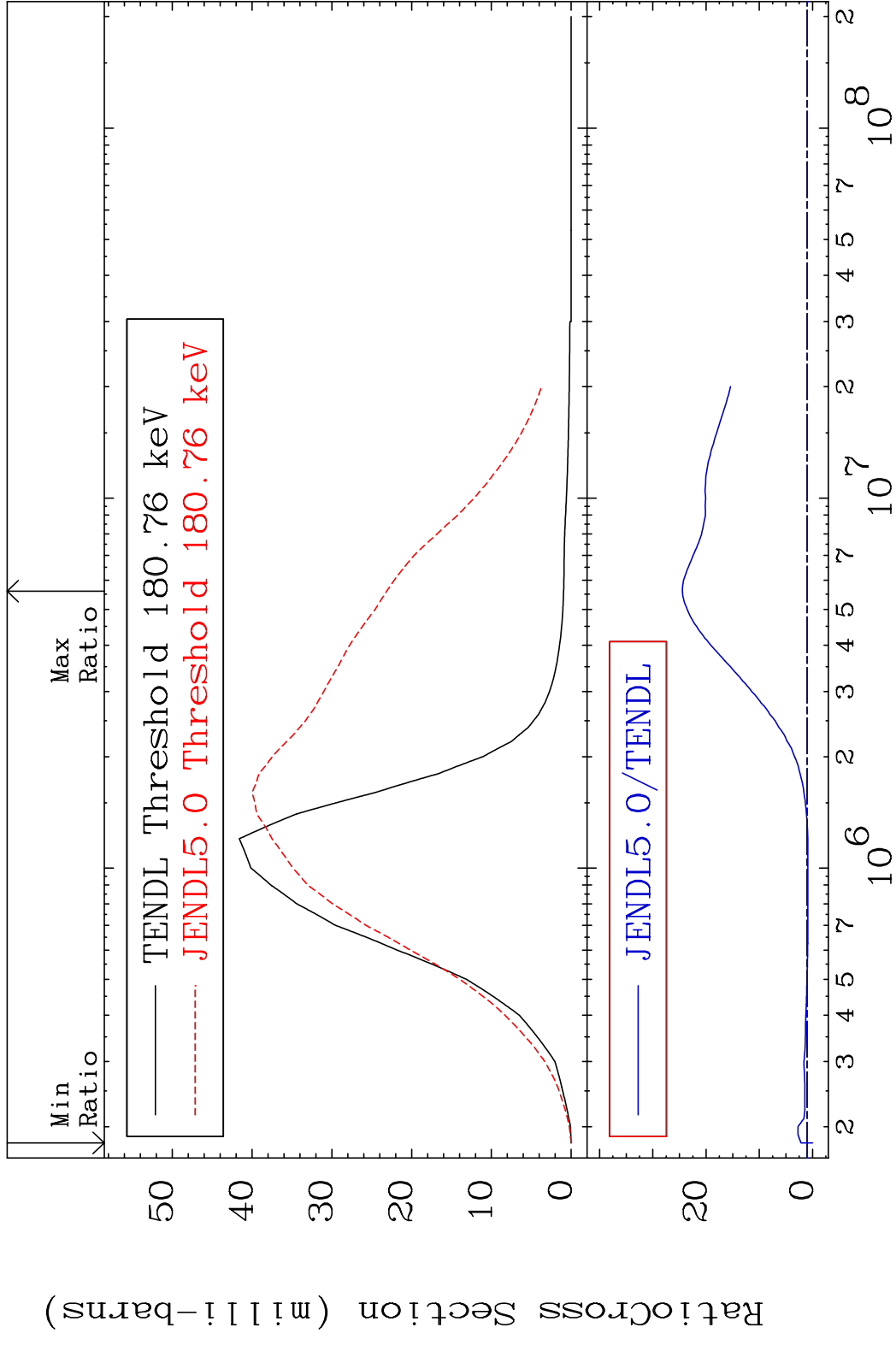
MAT 9352 MT= 55 (n, n') Level 93-Np-239
 Cross Section -100.0 To 9999. %



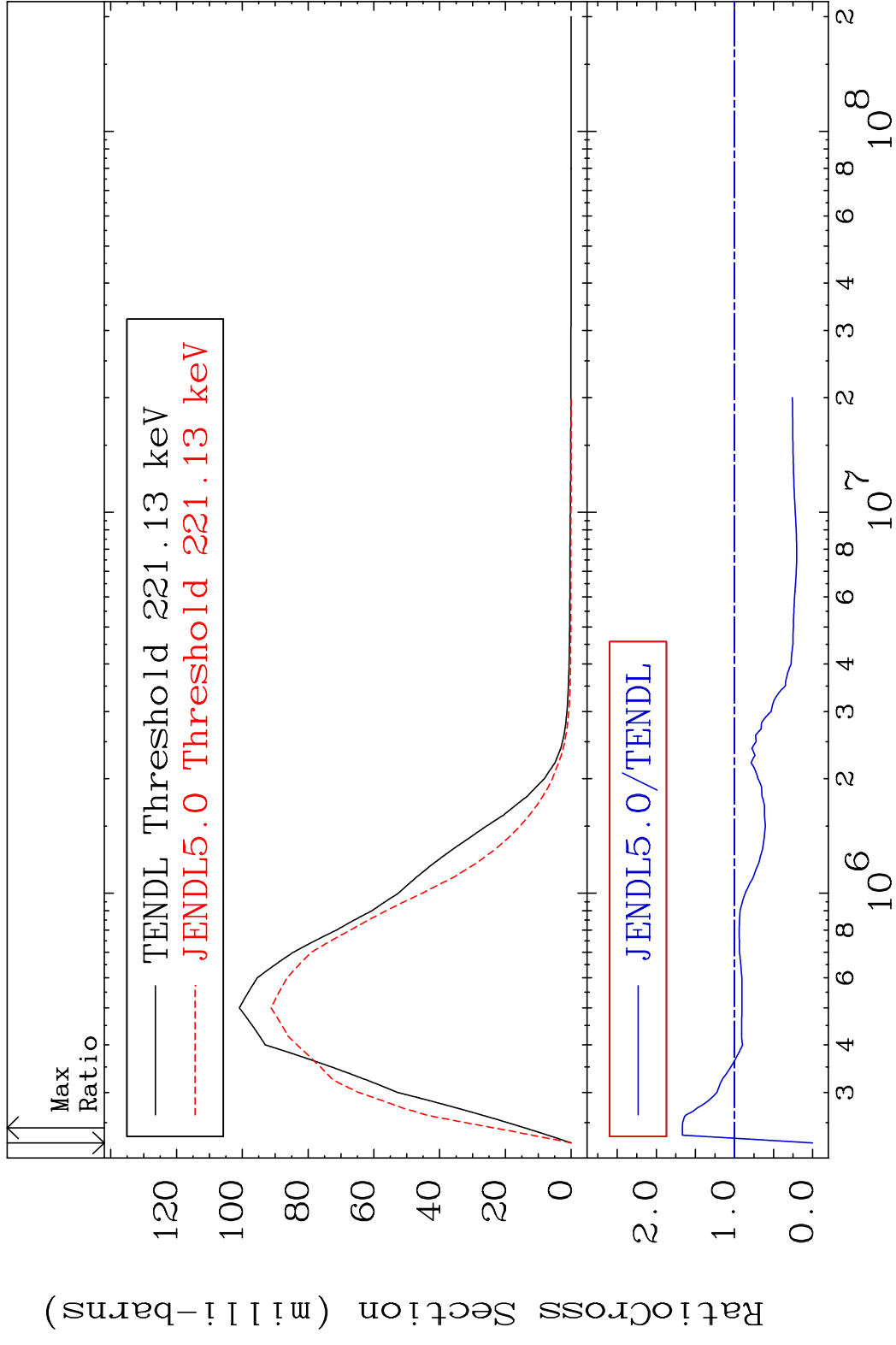
MAT 9352 MT= 56 (n, n') Level 93-Np-239
 Cross Section -80.86 To 327.1 %



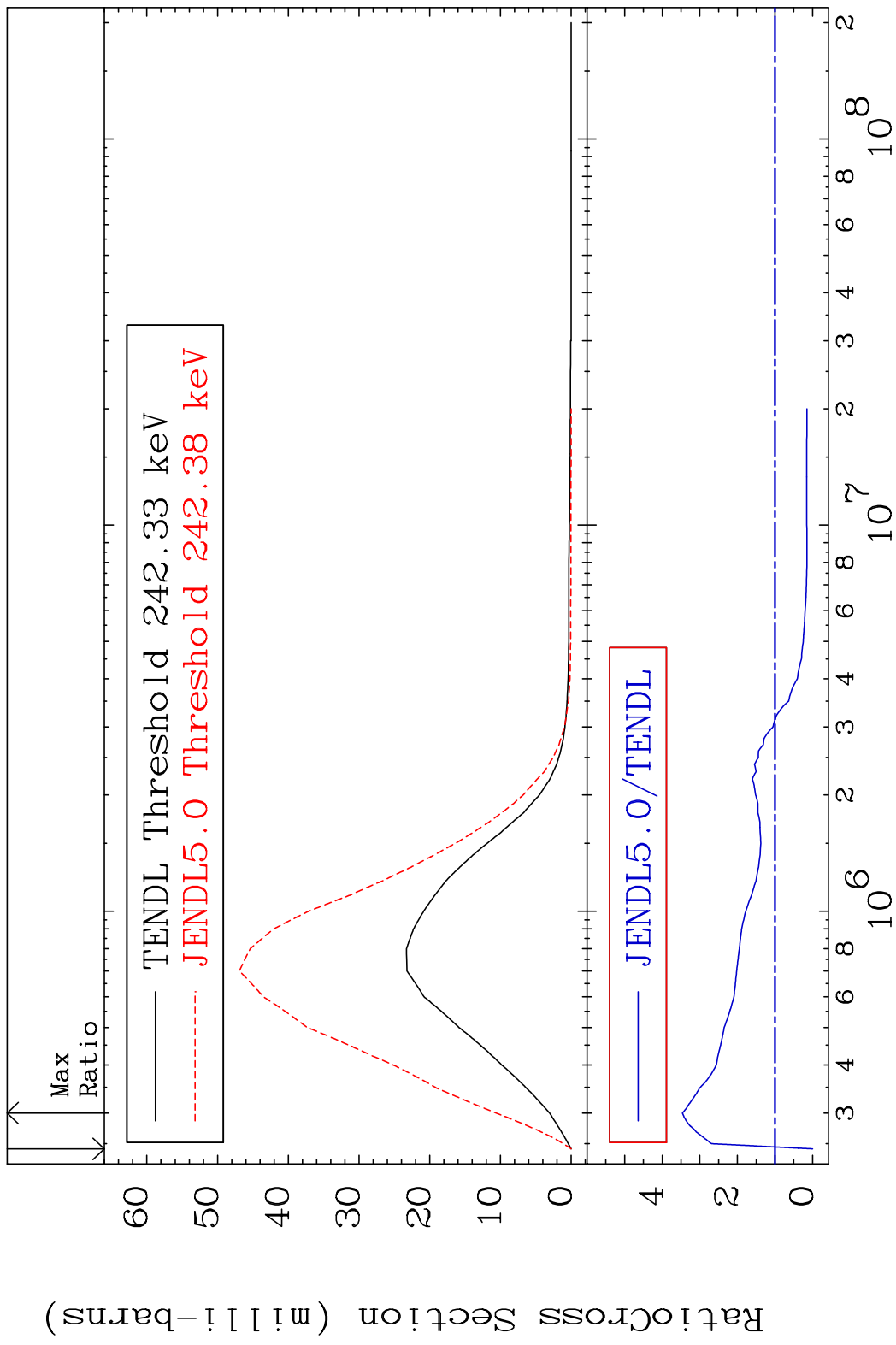
MAT 9352 MT= 57 (n, n') Level 93-Np-239
 Cross Section -100.0 To 2346. %



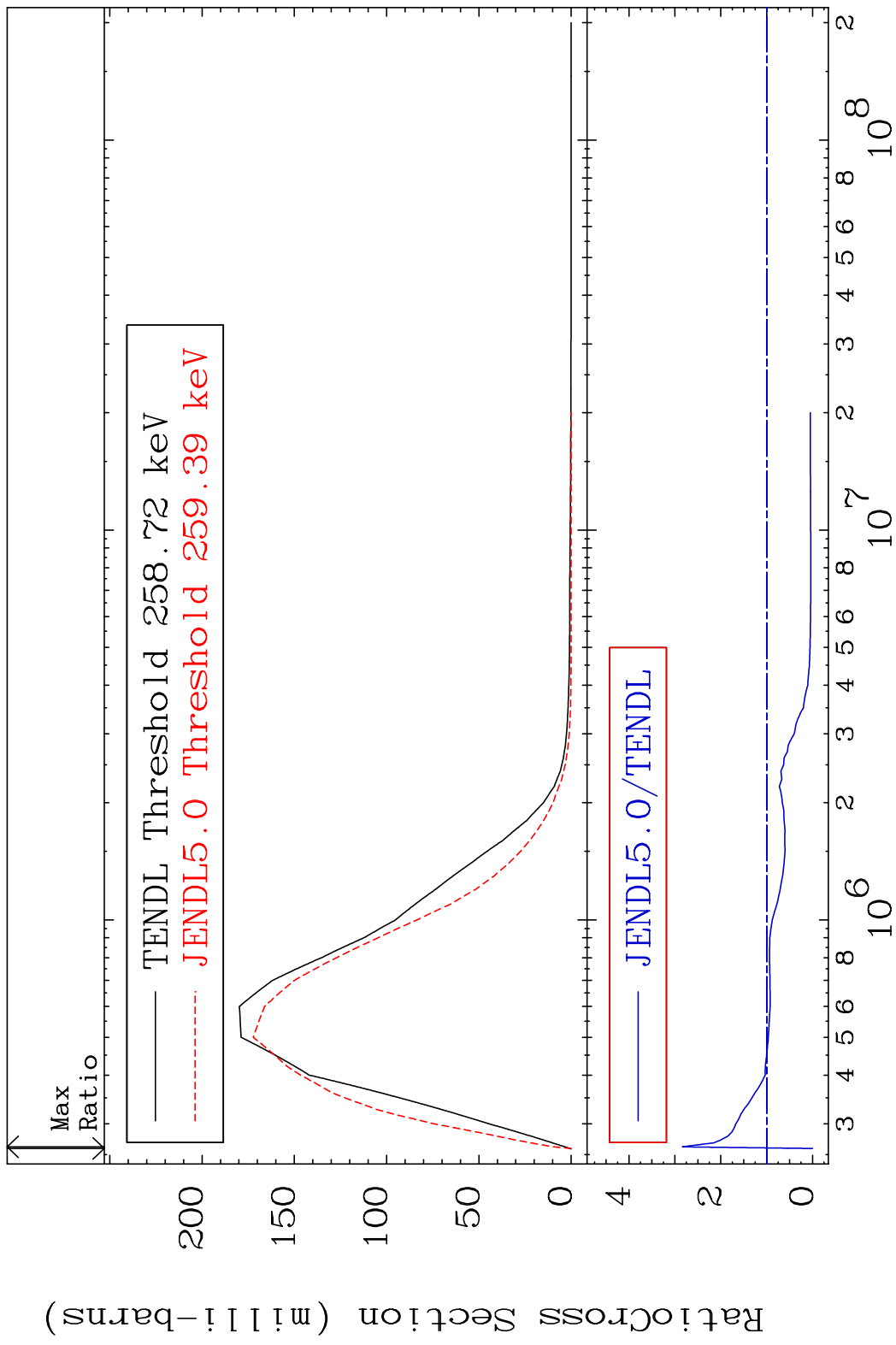
MAT 9352 MT= 58 (n,n') Level 93-Np-239
 Cross Section -100.0 To 66.67 %



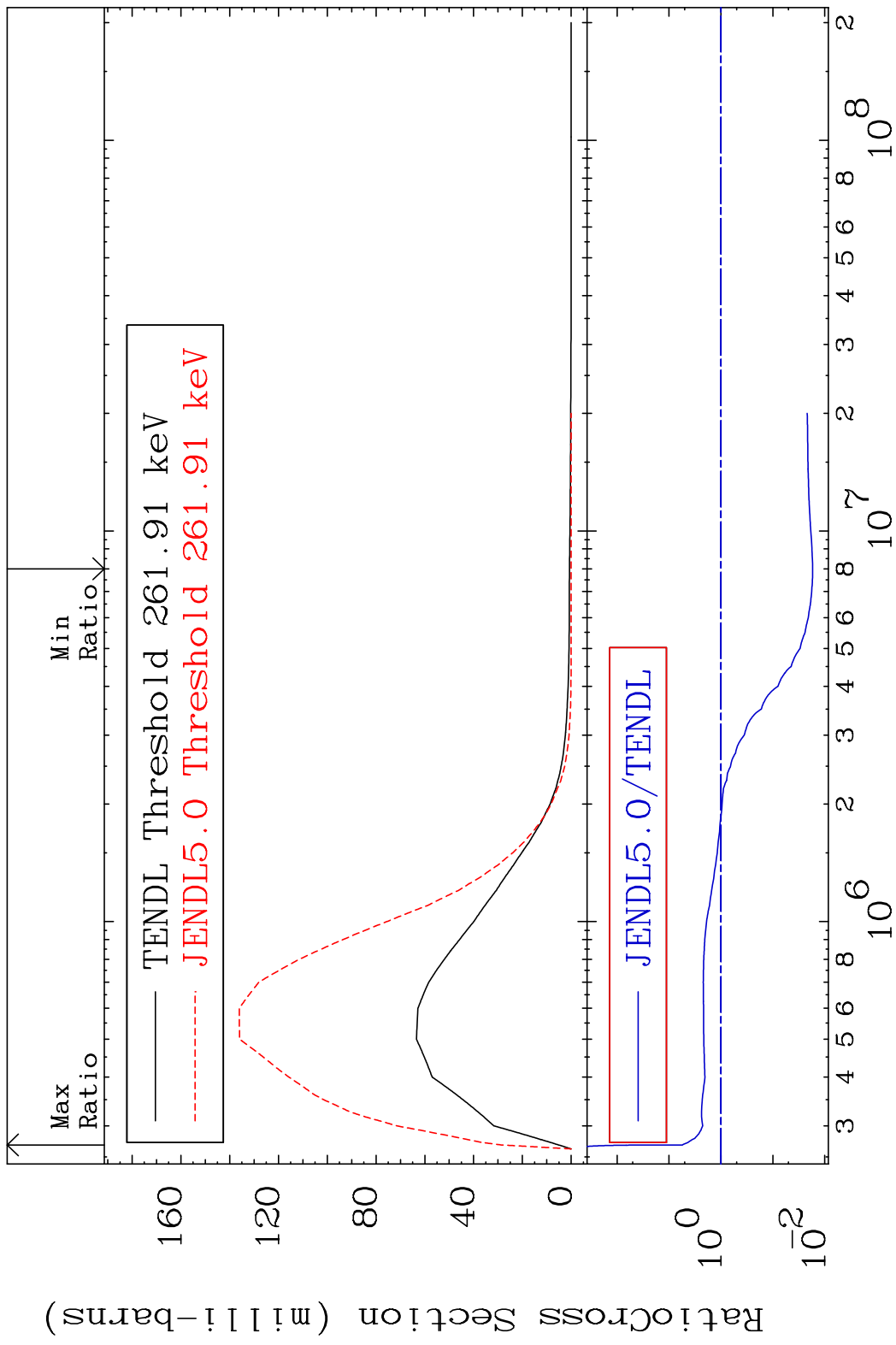
MAT 9352 MT= 59 (n, n') Level 93-Np-239
 Cross Section -100.0 To 246.4 %



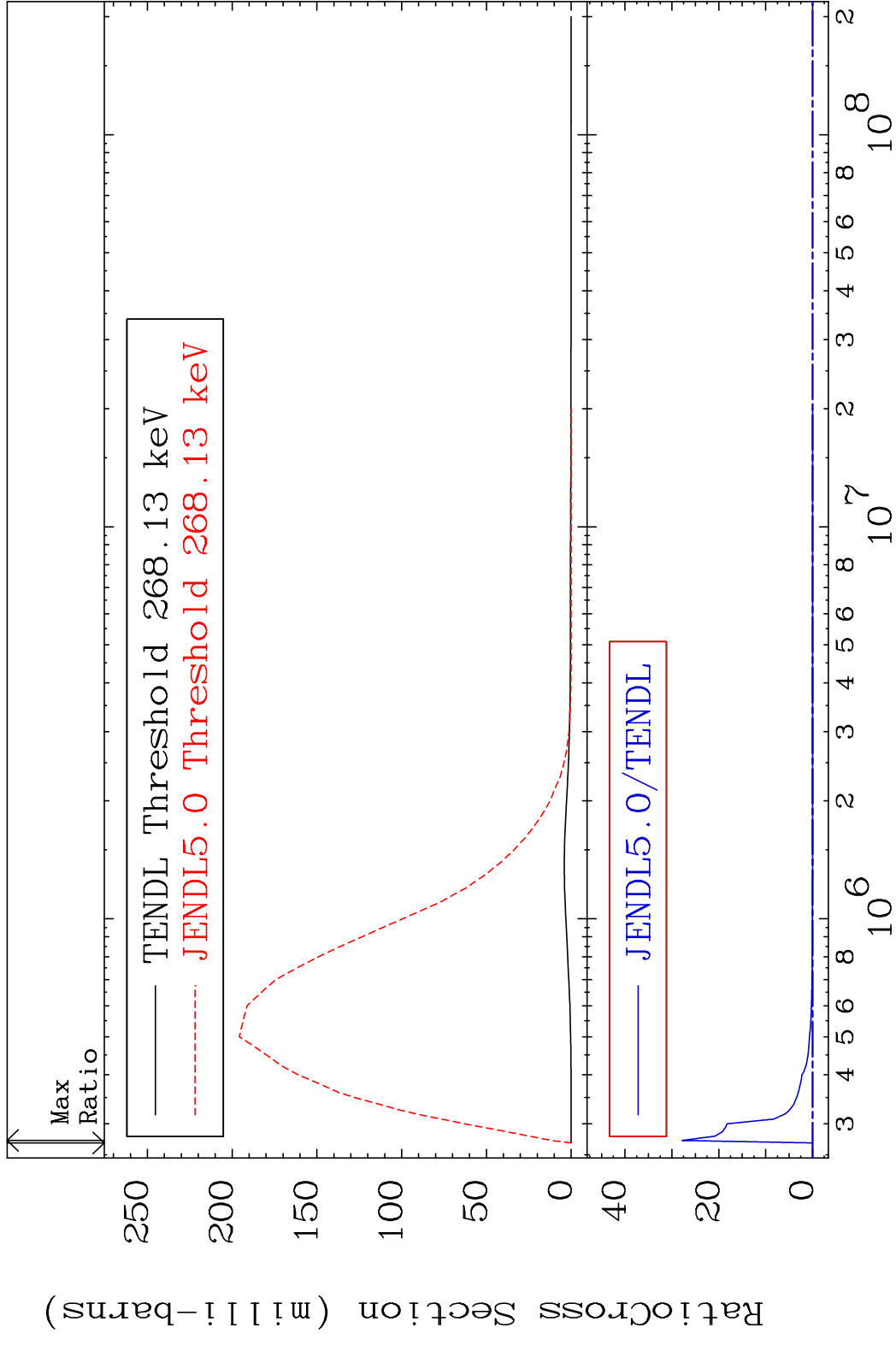
MAT 9352 MT= 60 (n, n') Level 93-Np-239
 Cross Section -100.0 To 183.7 %



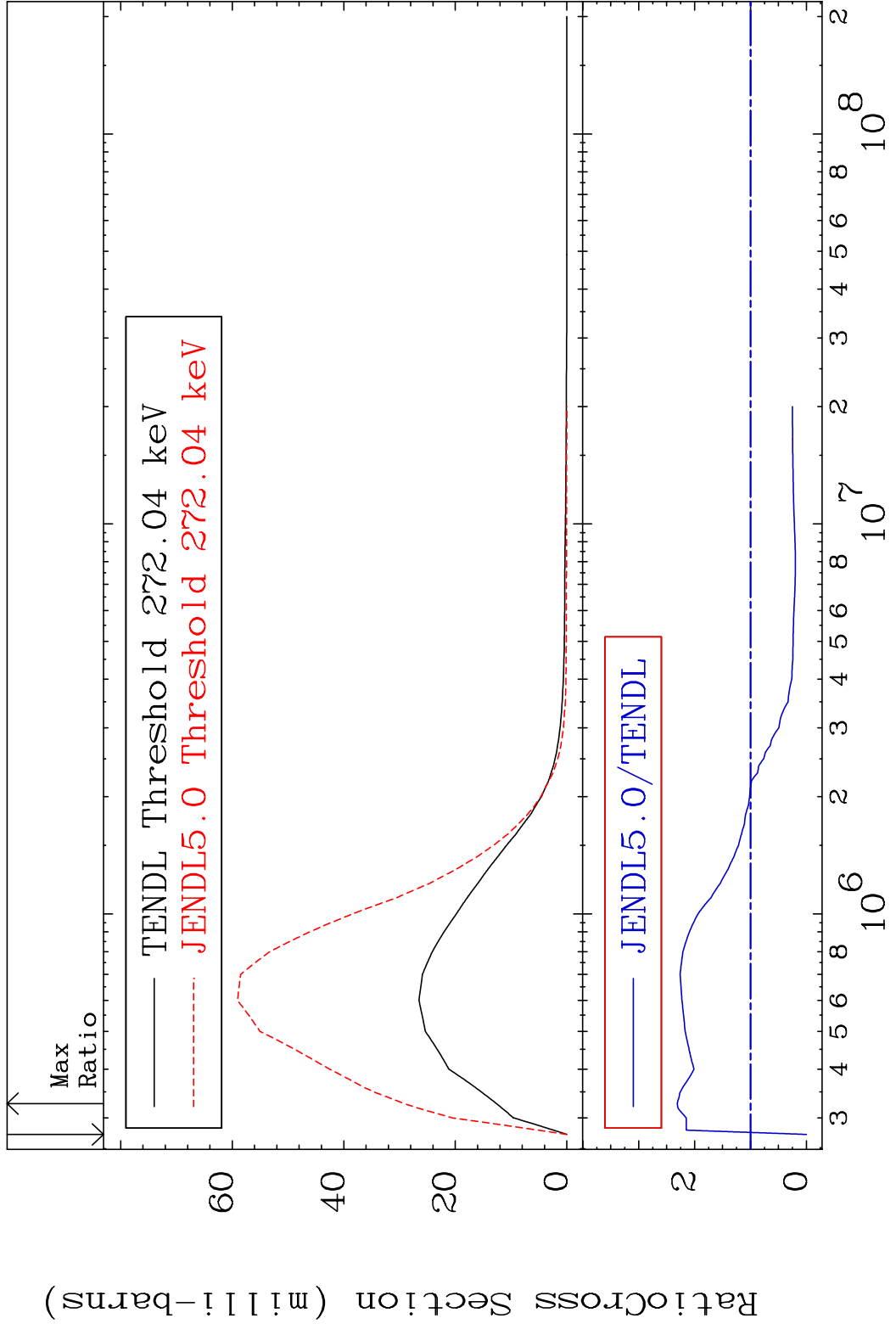
MAT 9352 MT= 61 (n, n') Level 93-Np-239
 Cross Section -98.28 To 453.5 %



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

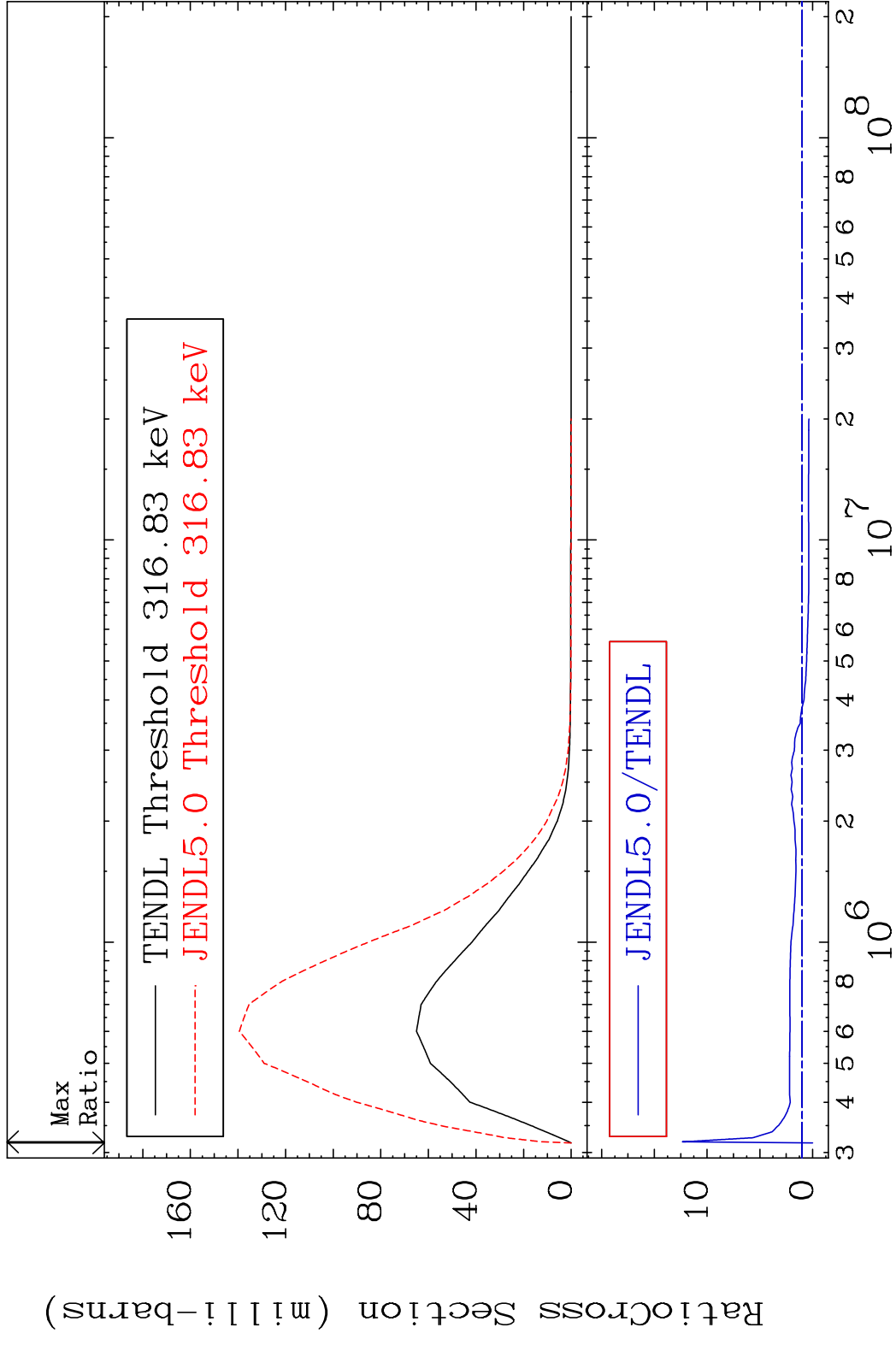


MAT 9352 MT= 63 (n, n') Level 93-Np-239
 Cross Section -100.0 To 131.2 %

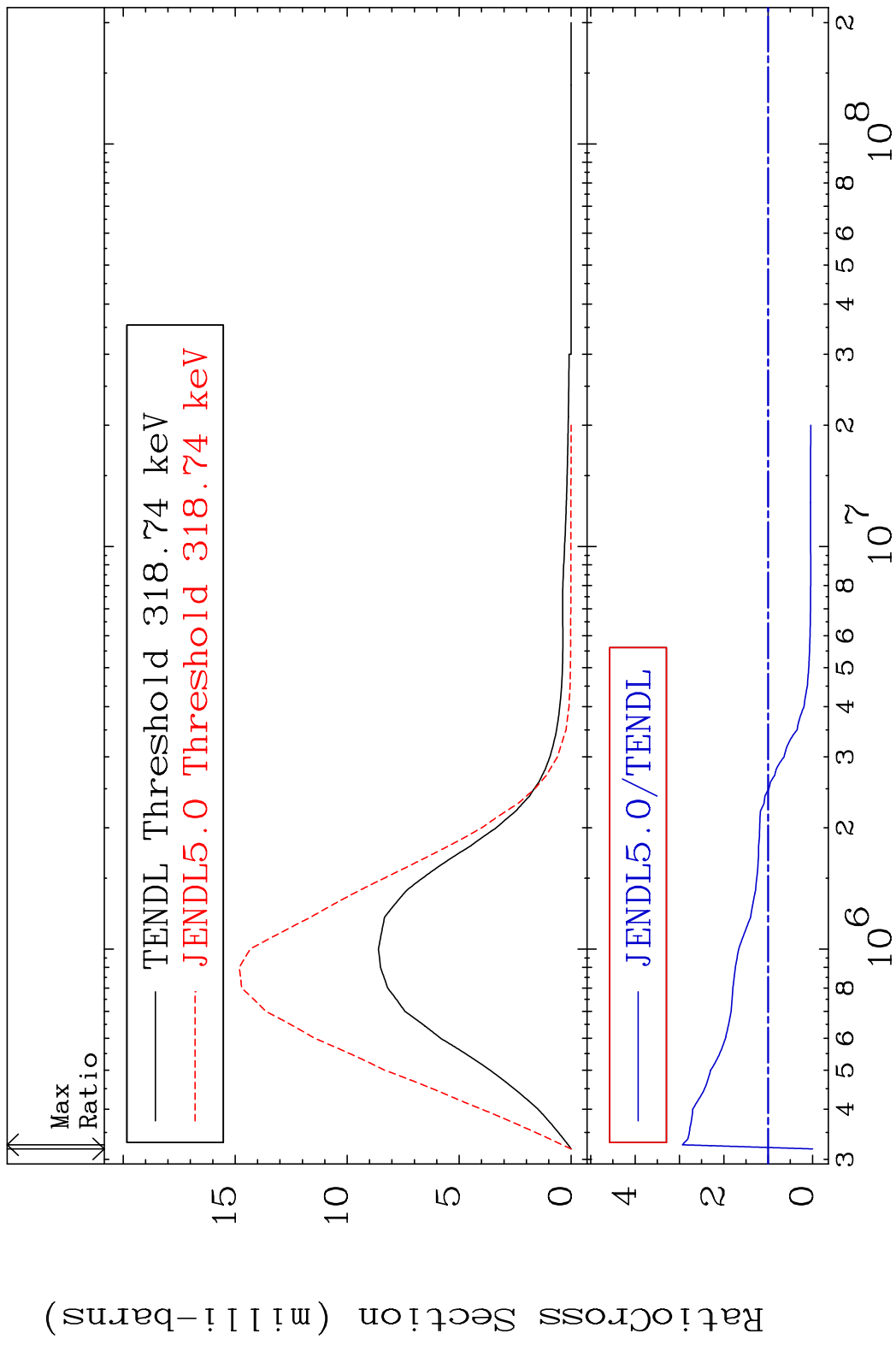


20 Incident Energy (eV) 93-Np-239

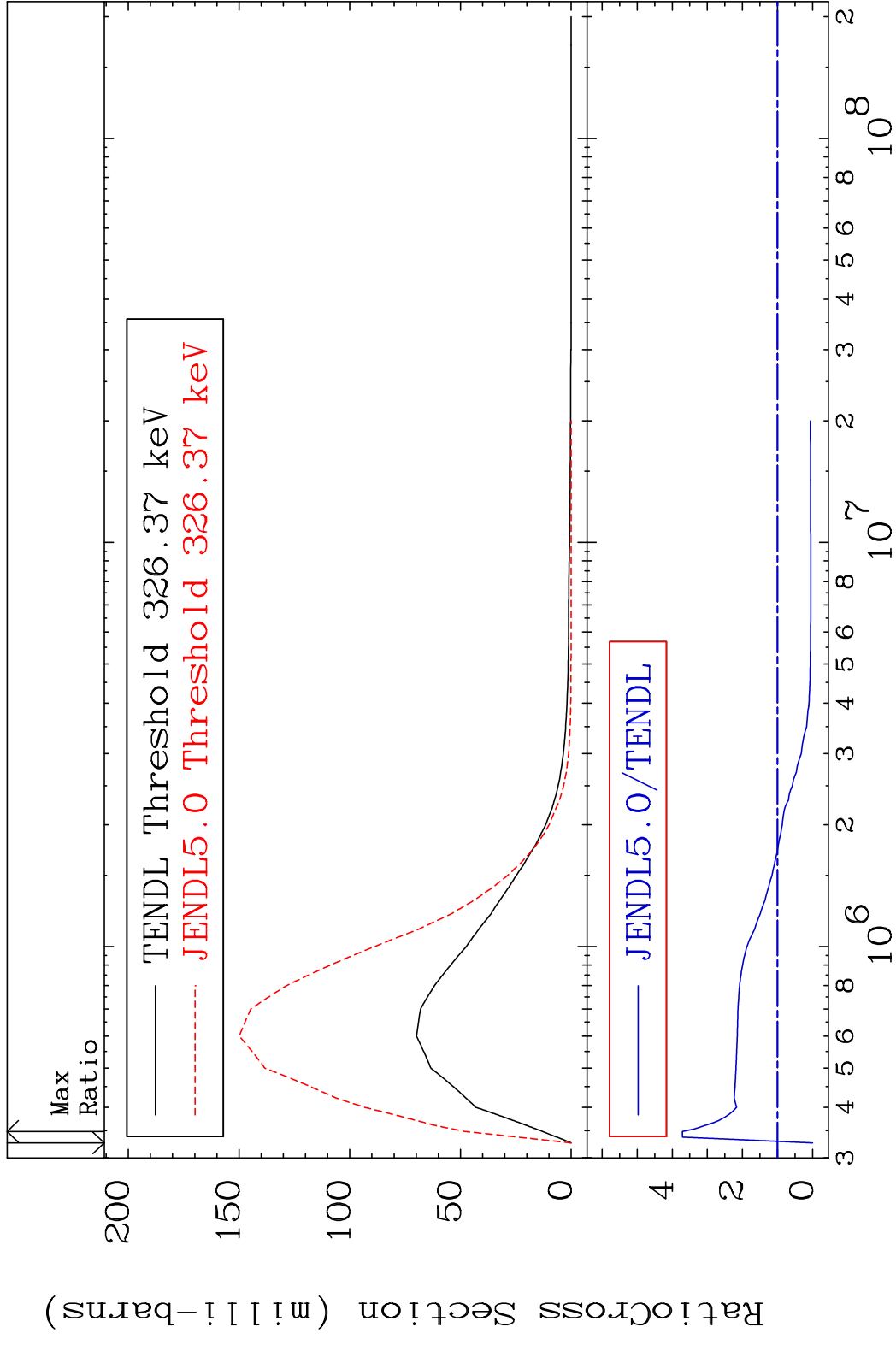
MAT 9352 MT= 64 (n,n') Level 93-Np-239
 Cross Section -100.0 To 1134. %



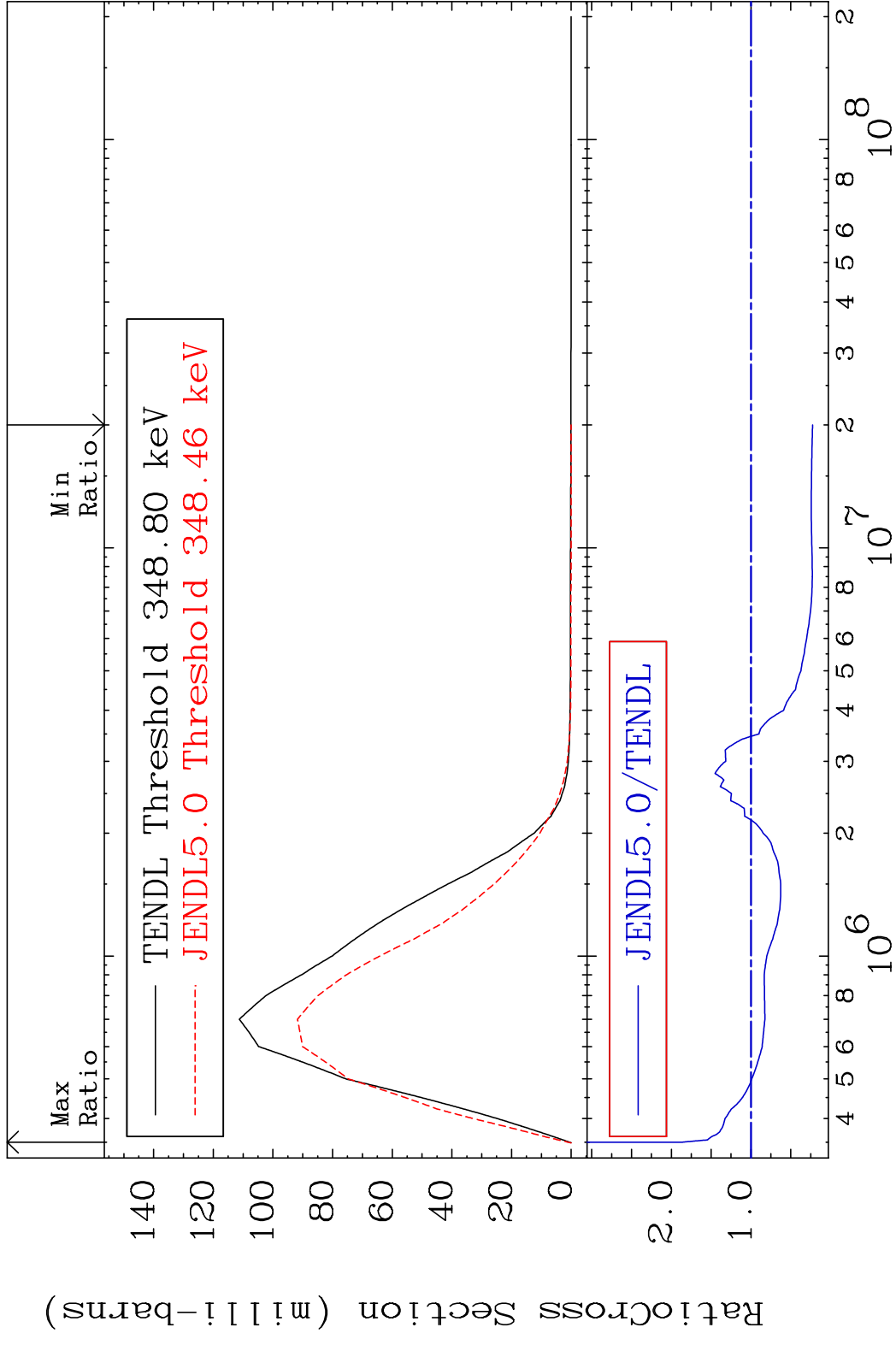
MAT 9352 MT= 65 (n, n') Level 93-Np-239
 Cross Section -100.0 To 193.4 %



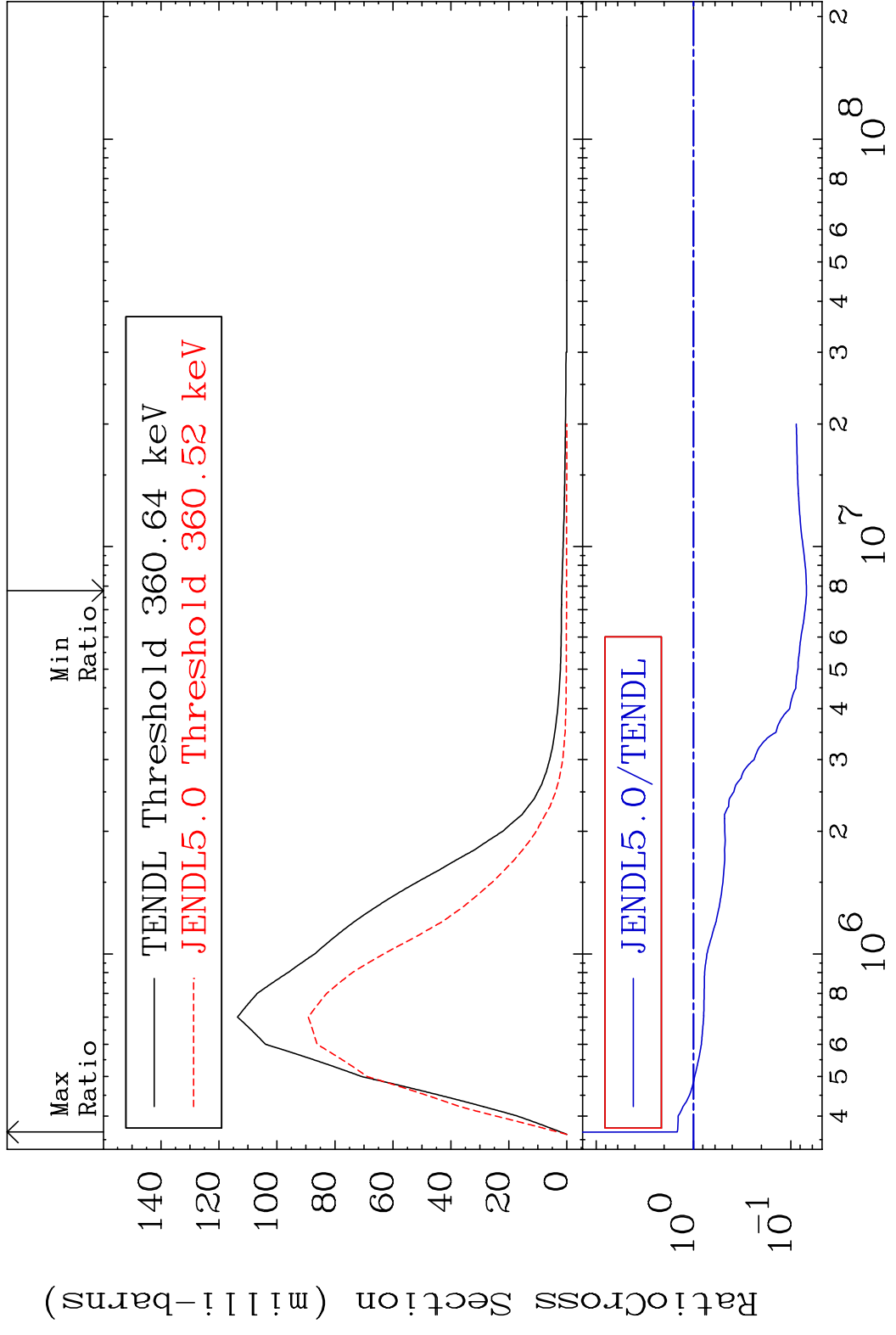
MAT 9352 MT= 66 (n,n') Level 93-Np-239
 Cross Section -100.0 To 271.2 %



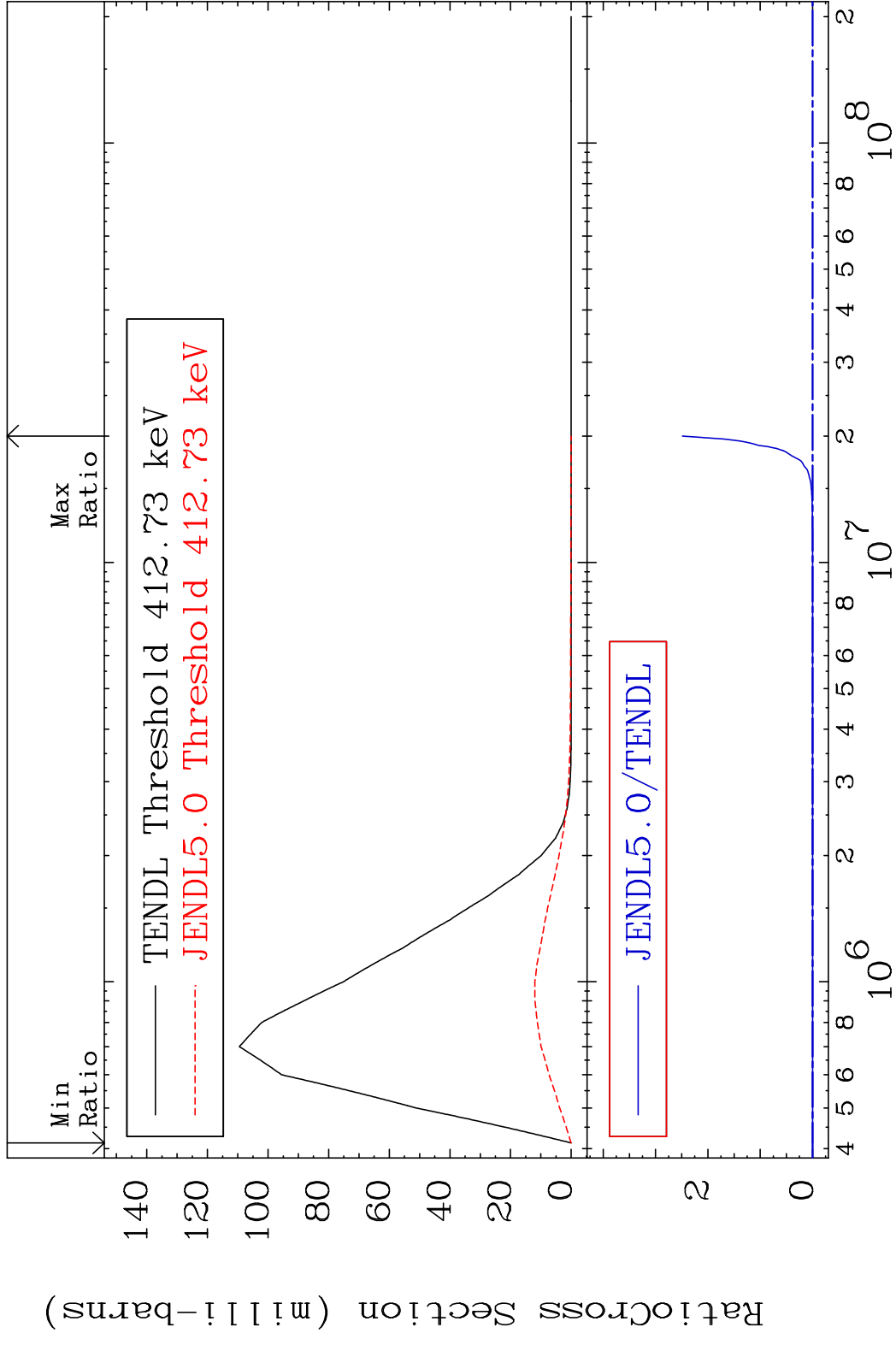
MAT 9352 MT= 67 (n, n') Level 93-Np-239
 Cross Section -77.37 To 86.16 %



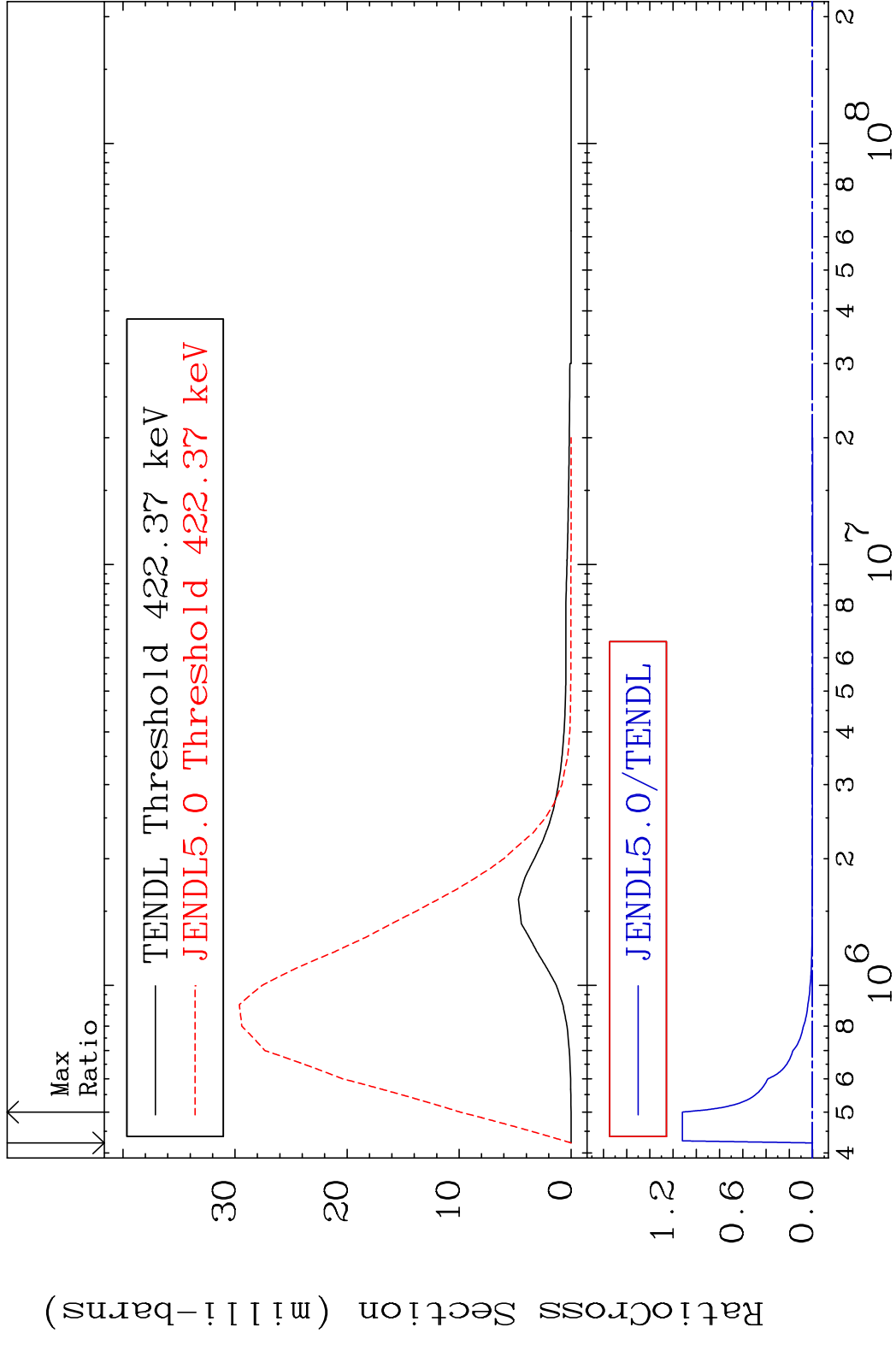
MAT 9352 MT= 68 (n,n') Level 93-Np-239
 Cross Section -93.10 To 47.04 %



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. %

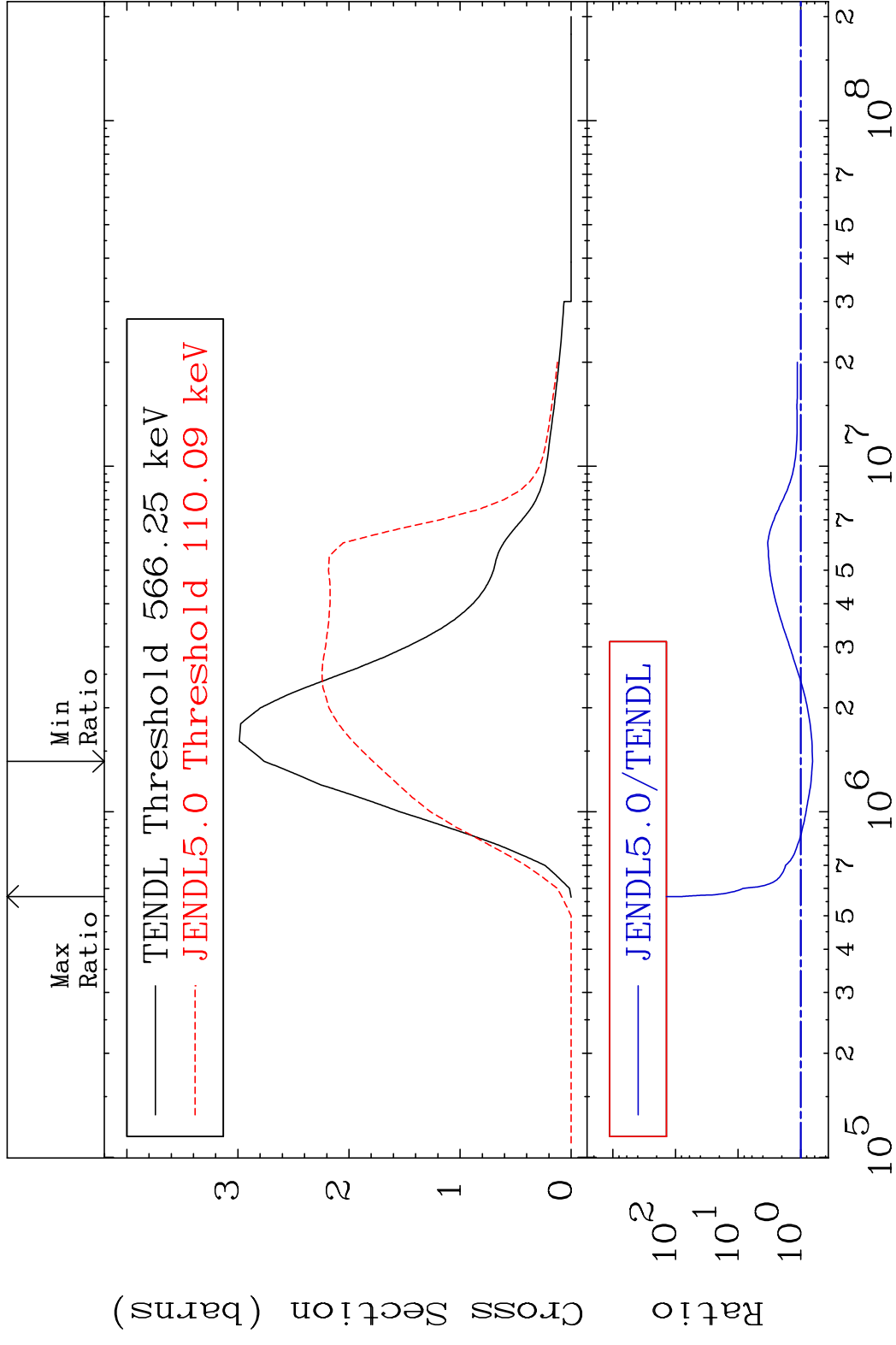


MAT 9352

(n, n') Continuum

93-Np-239

Cross Section -35.40 To 7660. %



28

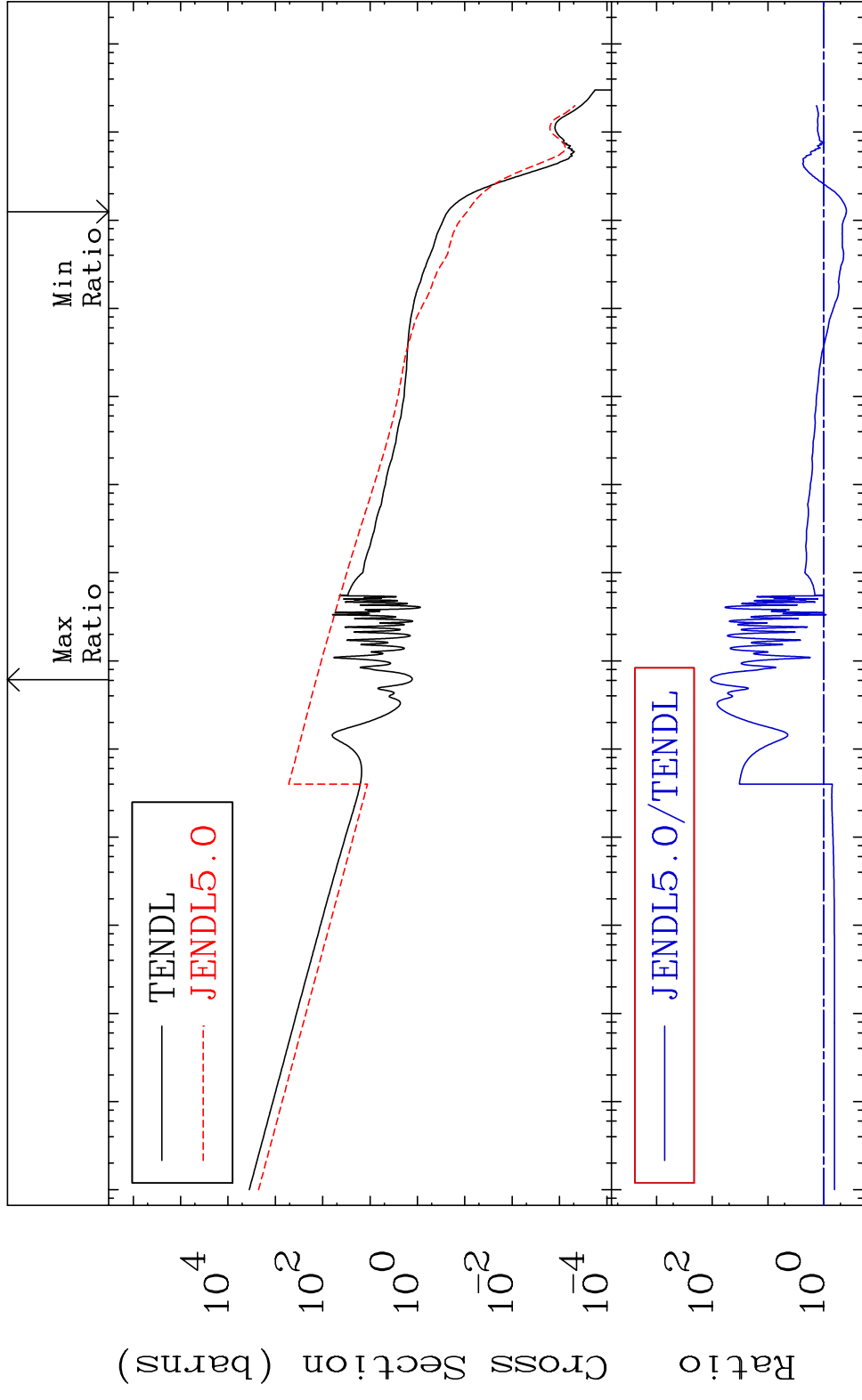
Incident Energy (eV)

93-Np-239

MAT 9352

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

93-Np-239

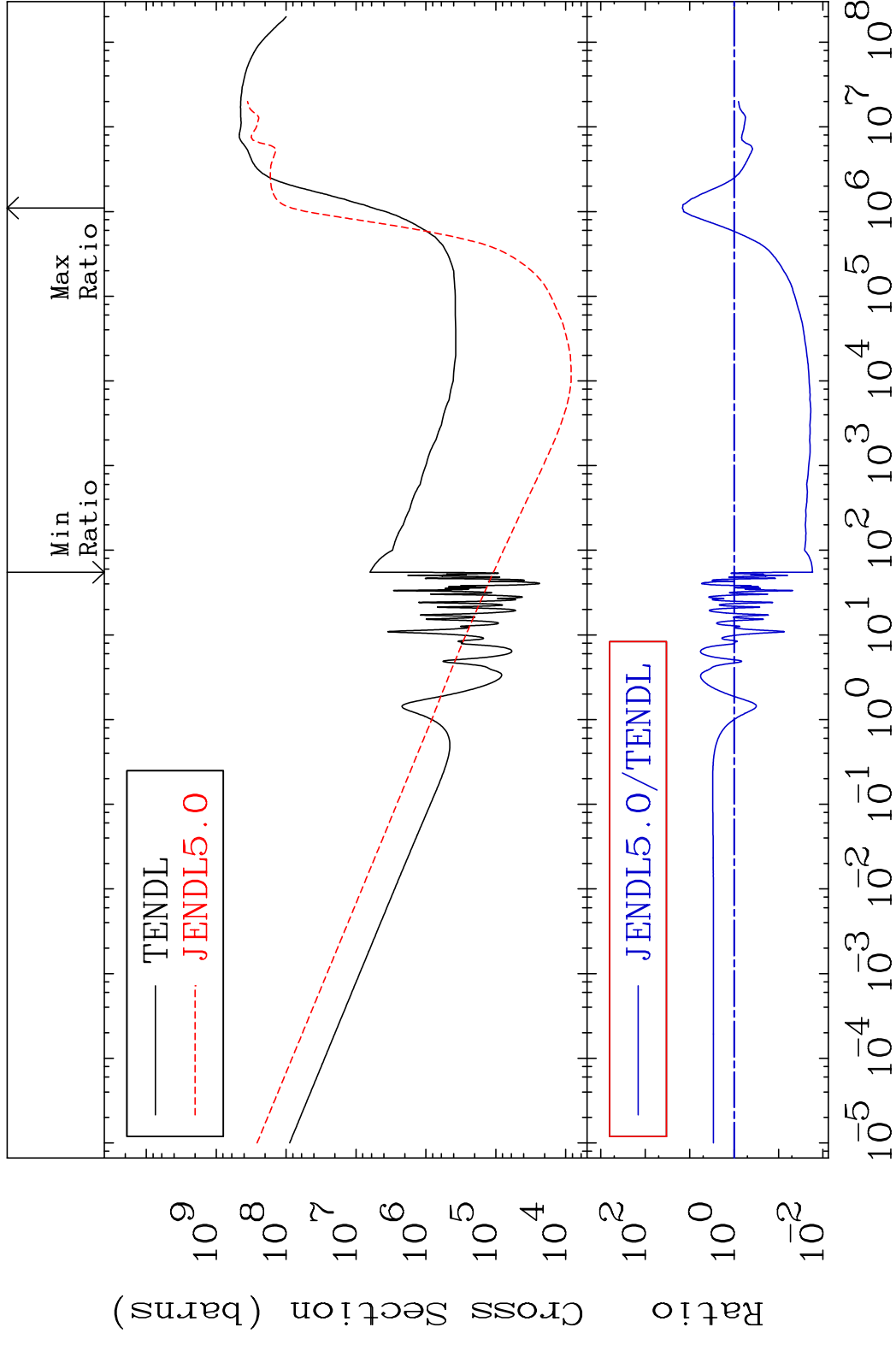


29

Incident Energy (eV)

93-Np-239

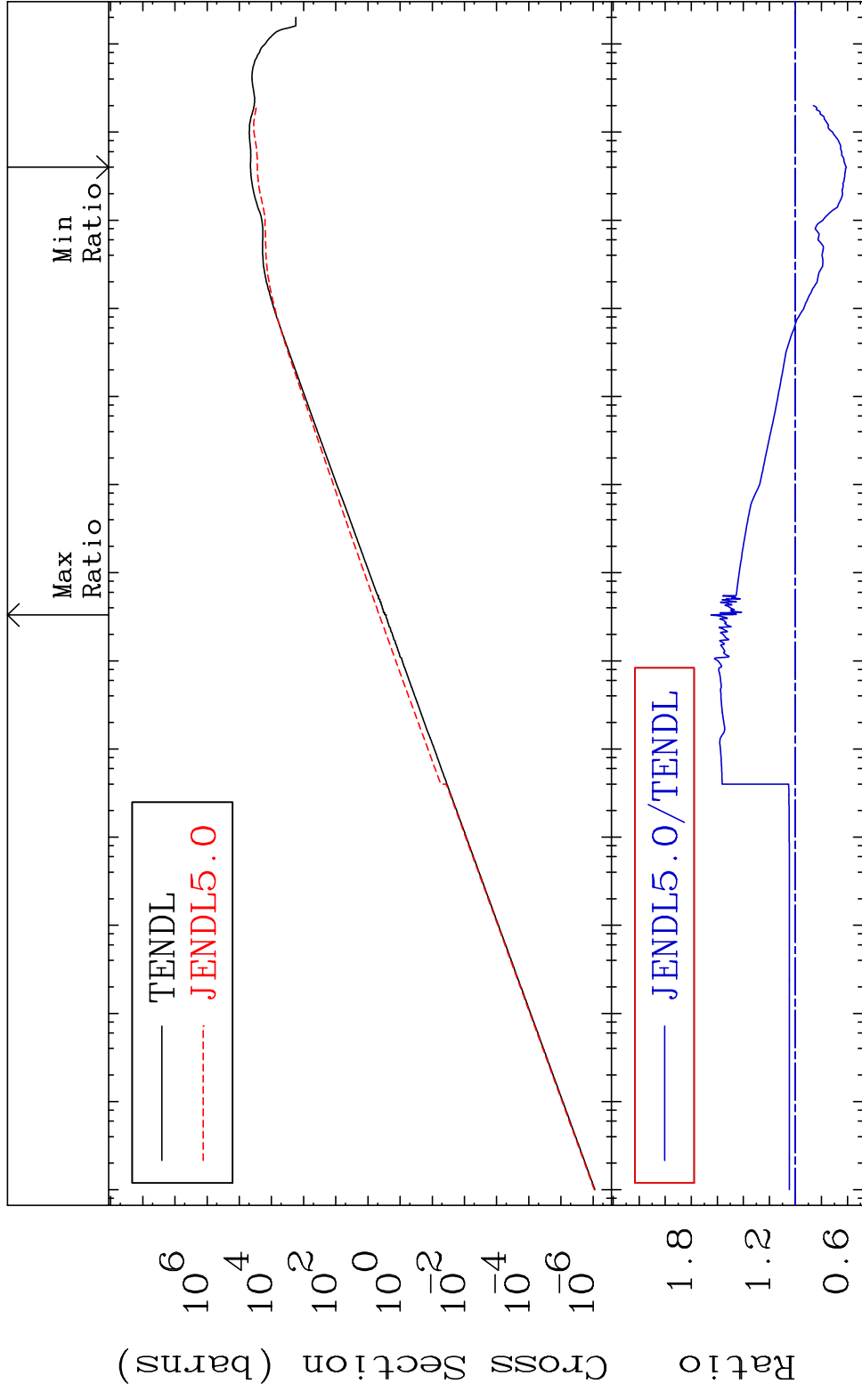
MAT 9352 Kerma total (eV-barns) 93-Np-239
 Cross Section -98.28 To 1361. %



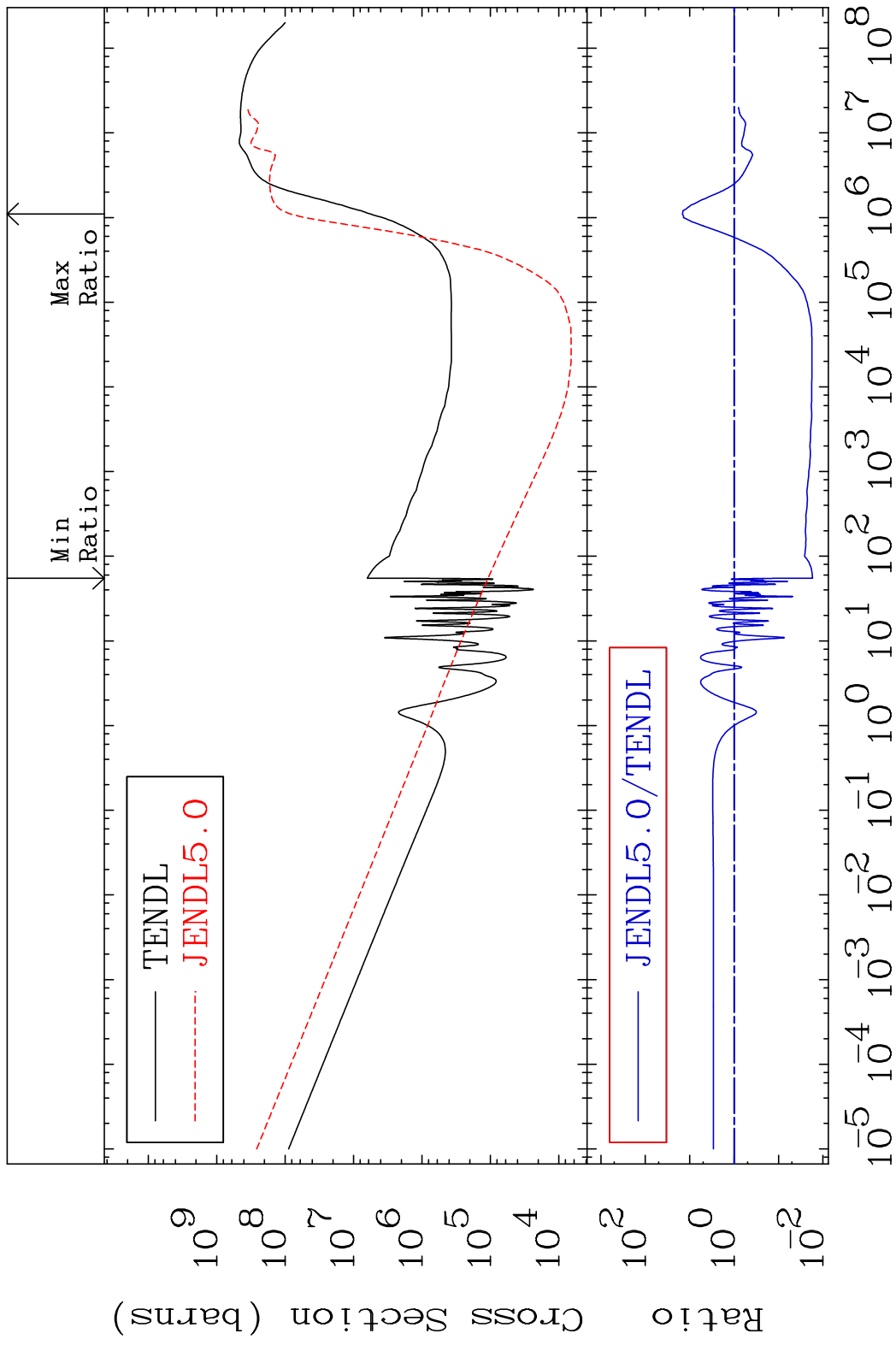
MAT 9352

Kerma elastic
Cross Section

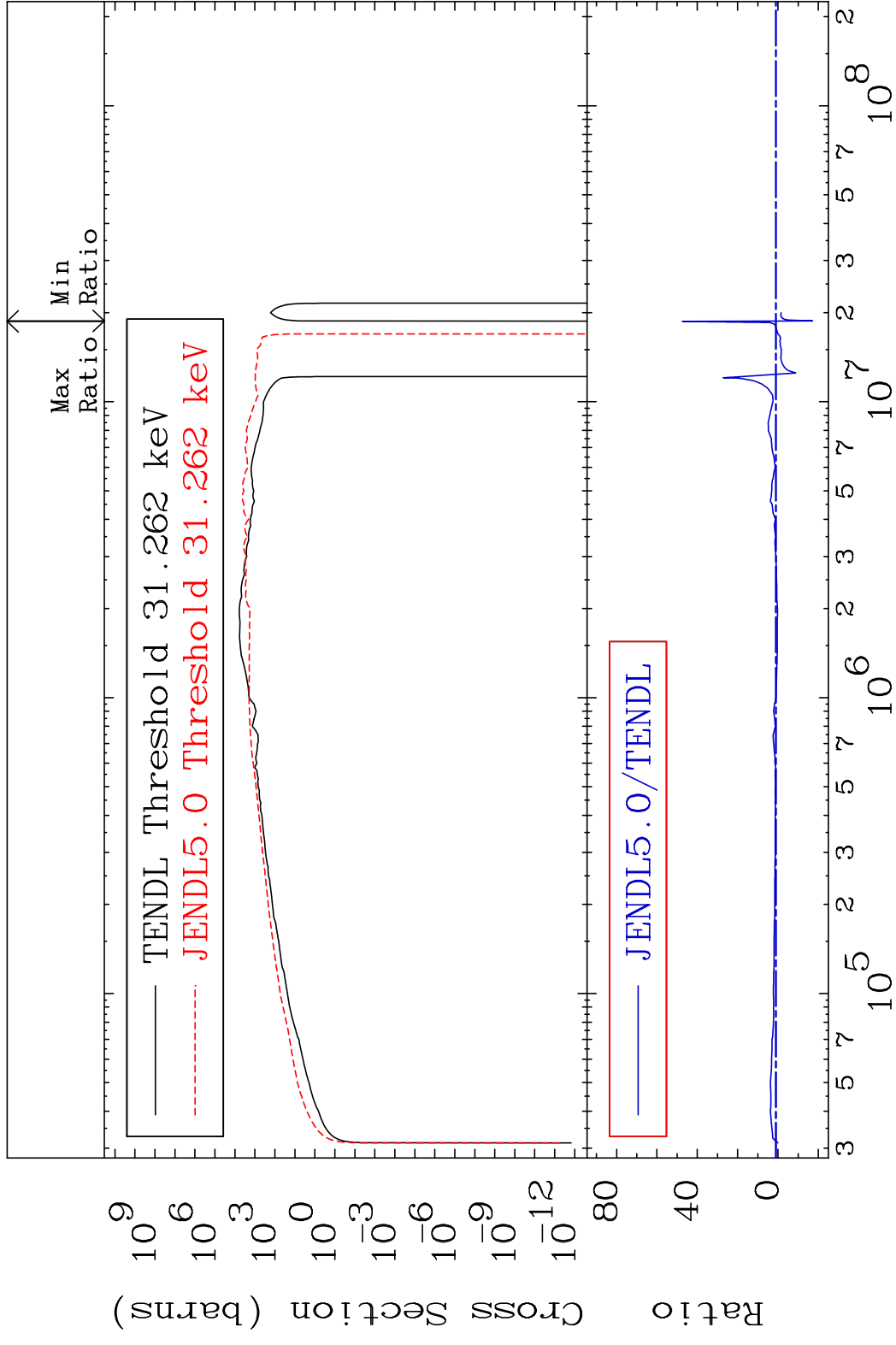
93-Np-239
-39.12 To 65.05 %



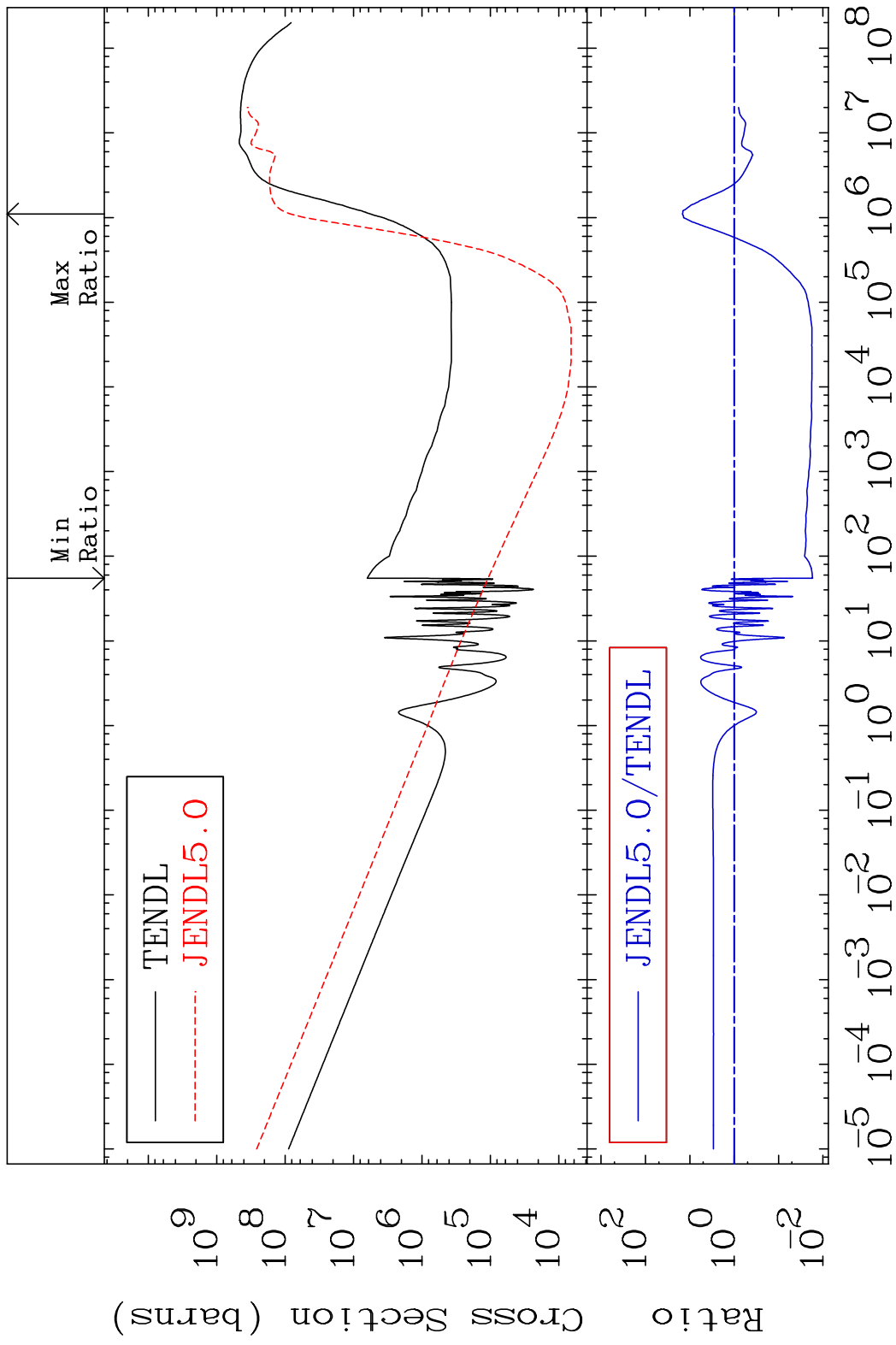
MAT 9352 Kerma non-elastic (all but mt2) 93-Np-239
 Cross Section -98.28 To 1367. %



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

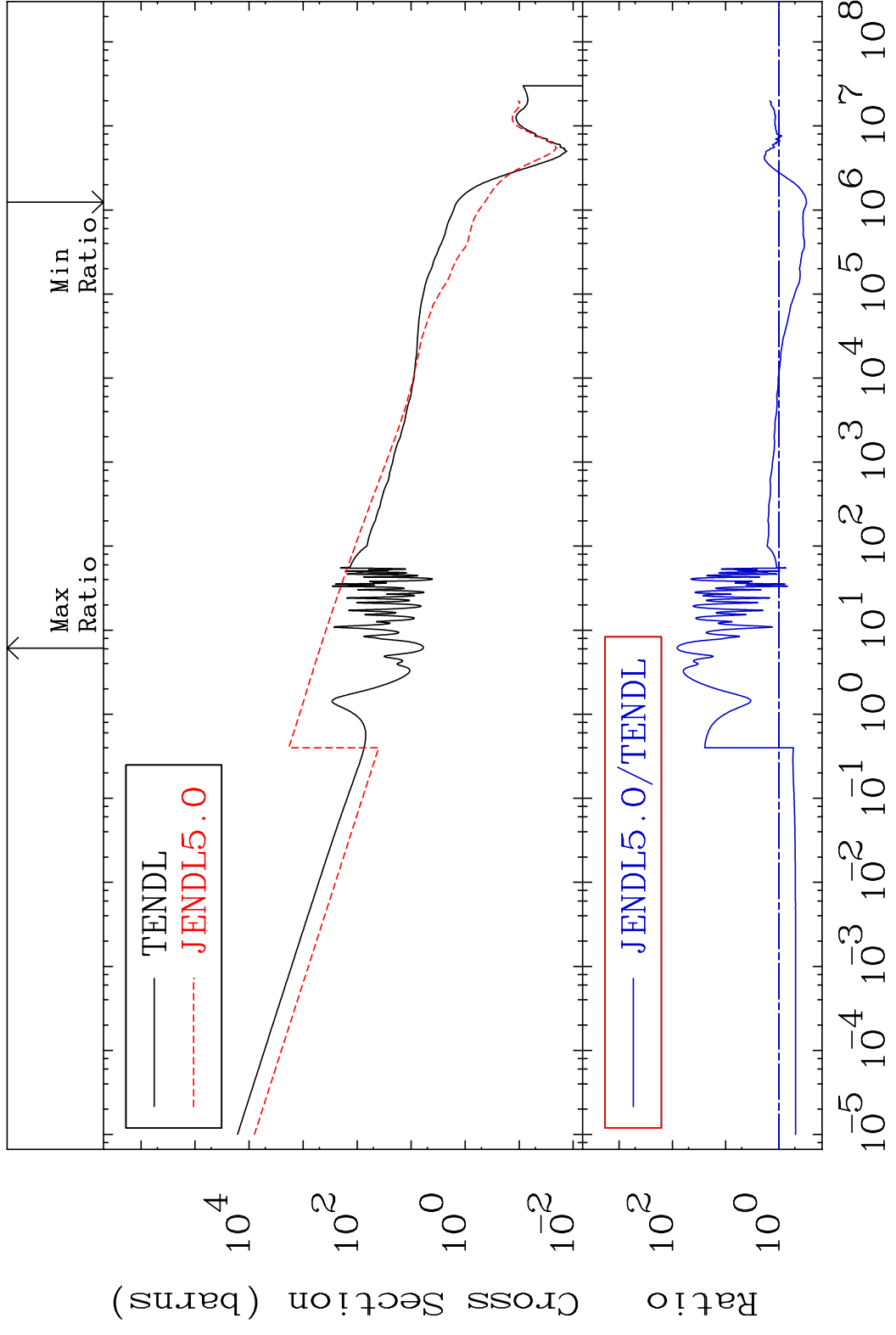


MAT 9352 Kerma fission (mt18 or mt19-20-21-38) 93-Np-239
 Cross Section -98.29 To 1372. %



MAT 9352

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



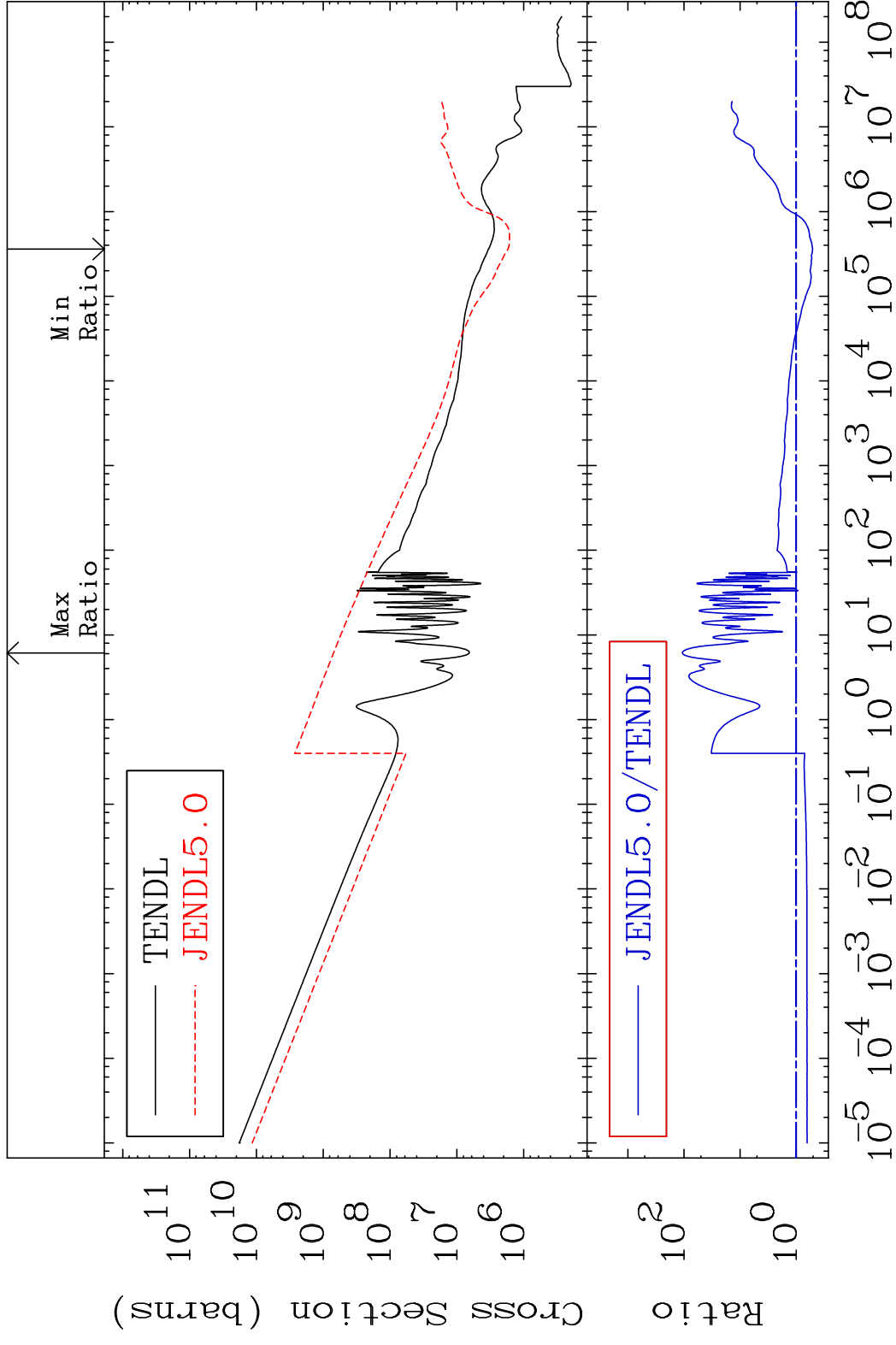
35

Incident Energy (eV)

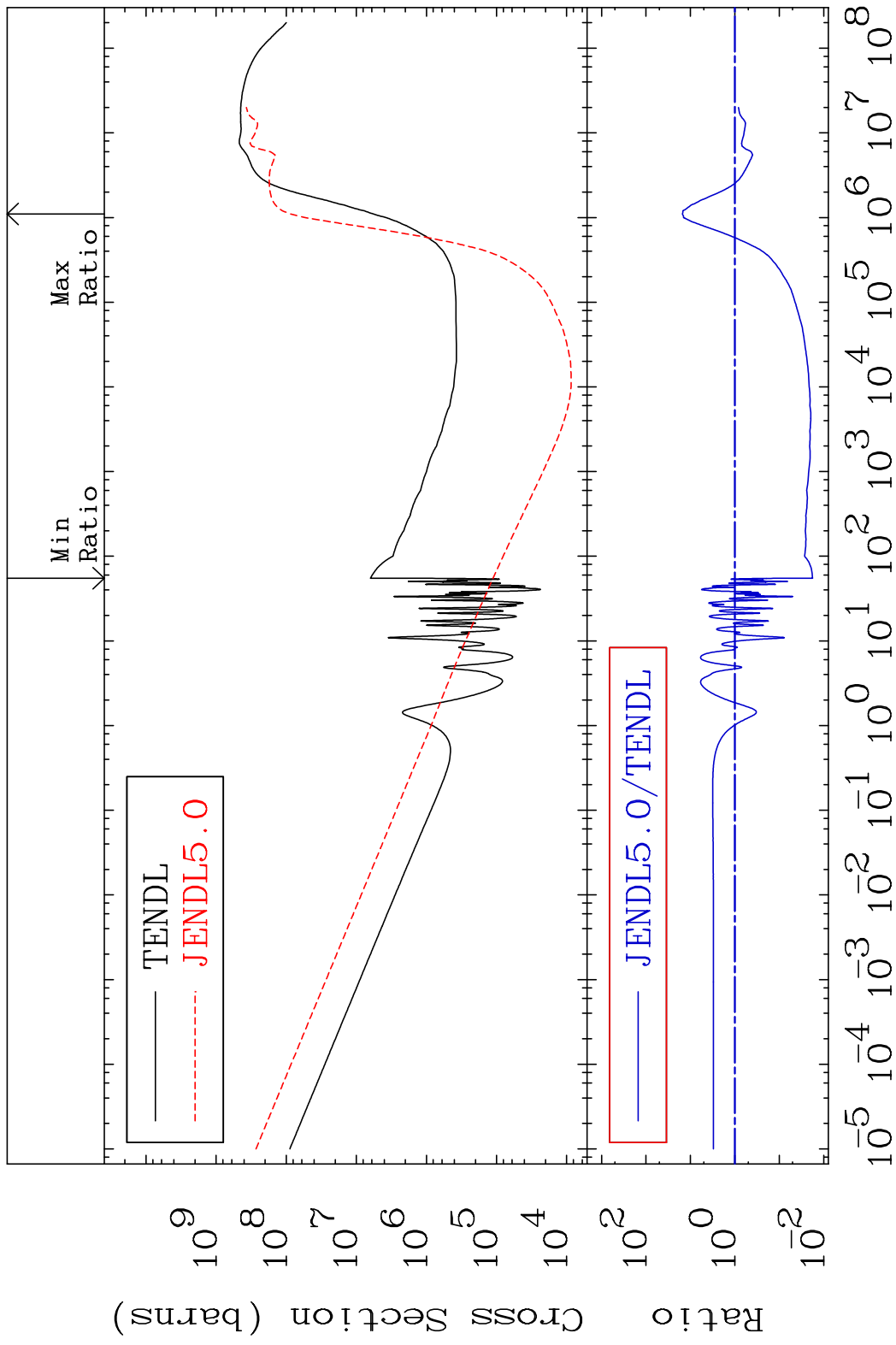
93-Np-239

MAT 9352

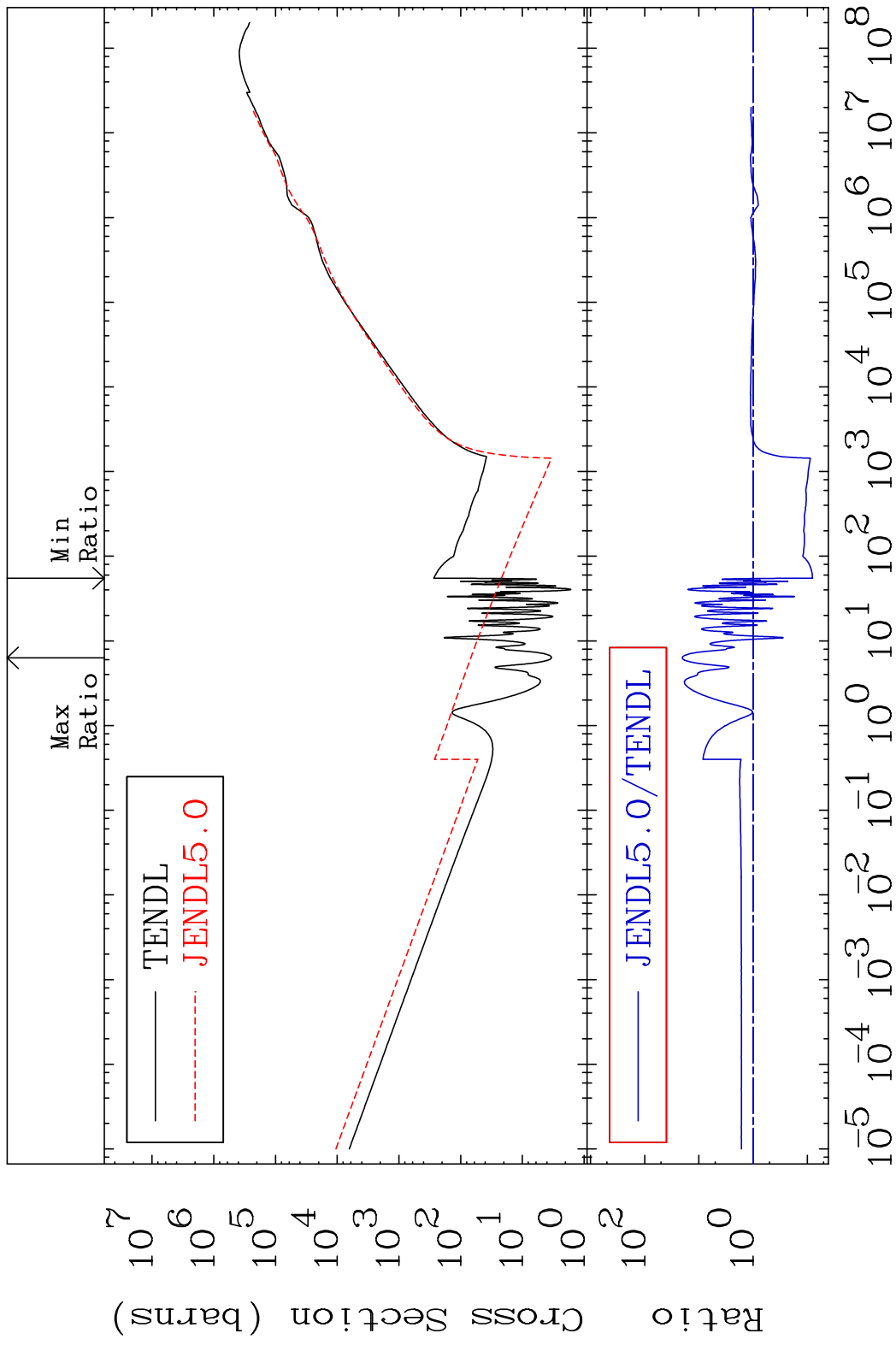
Total photon (eV-barns) 93-Np-239
Cross Section -48.92 To 9999. %



MAT 9352 Total kinematic kerma (high limit) 93-Np-239
 Cross Section -98.22 To 1418. %



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



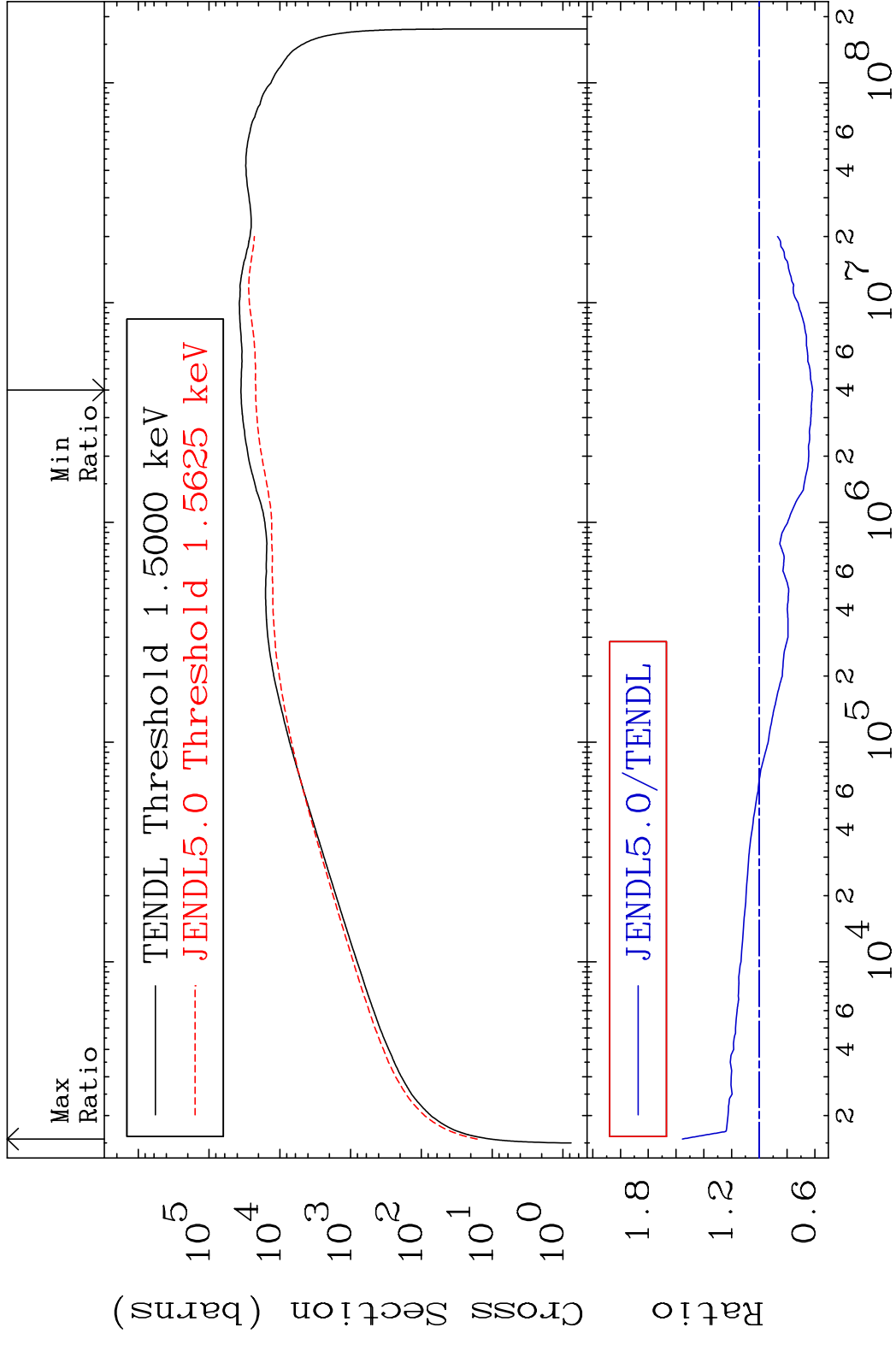
MAT 9352

Dpa elastic (mt2)

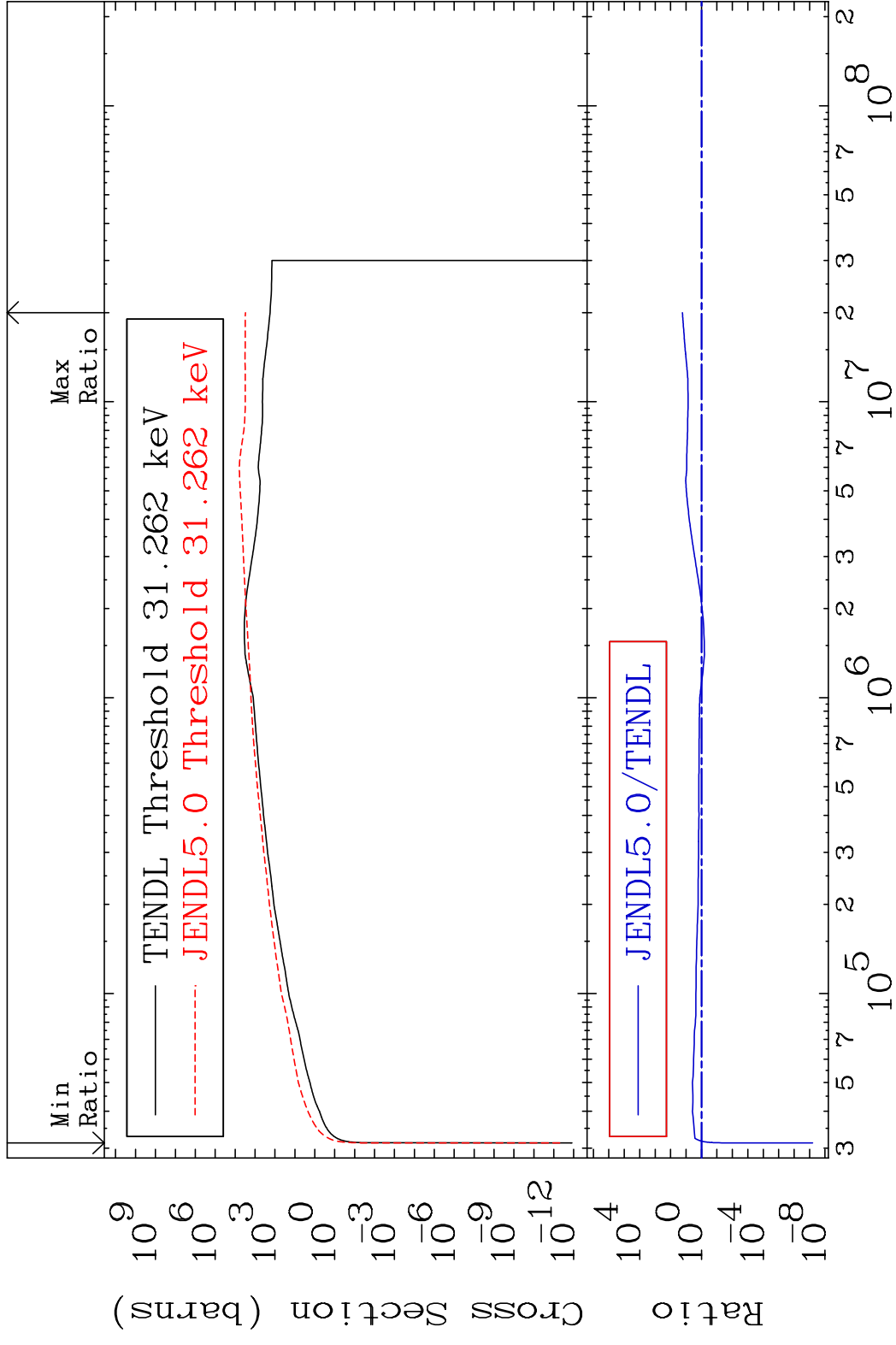
93-Np-239

Cross Section

-38.36 To 55.43 %

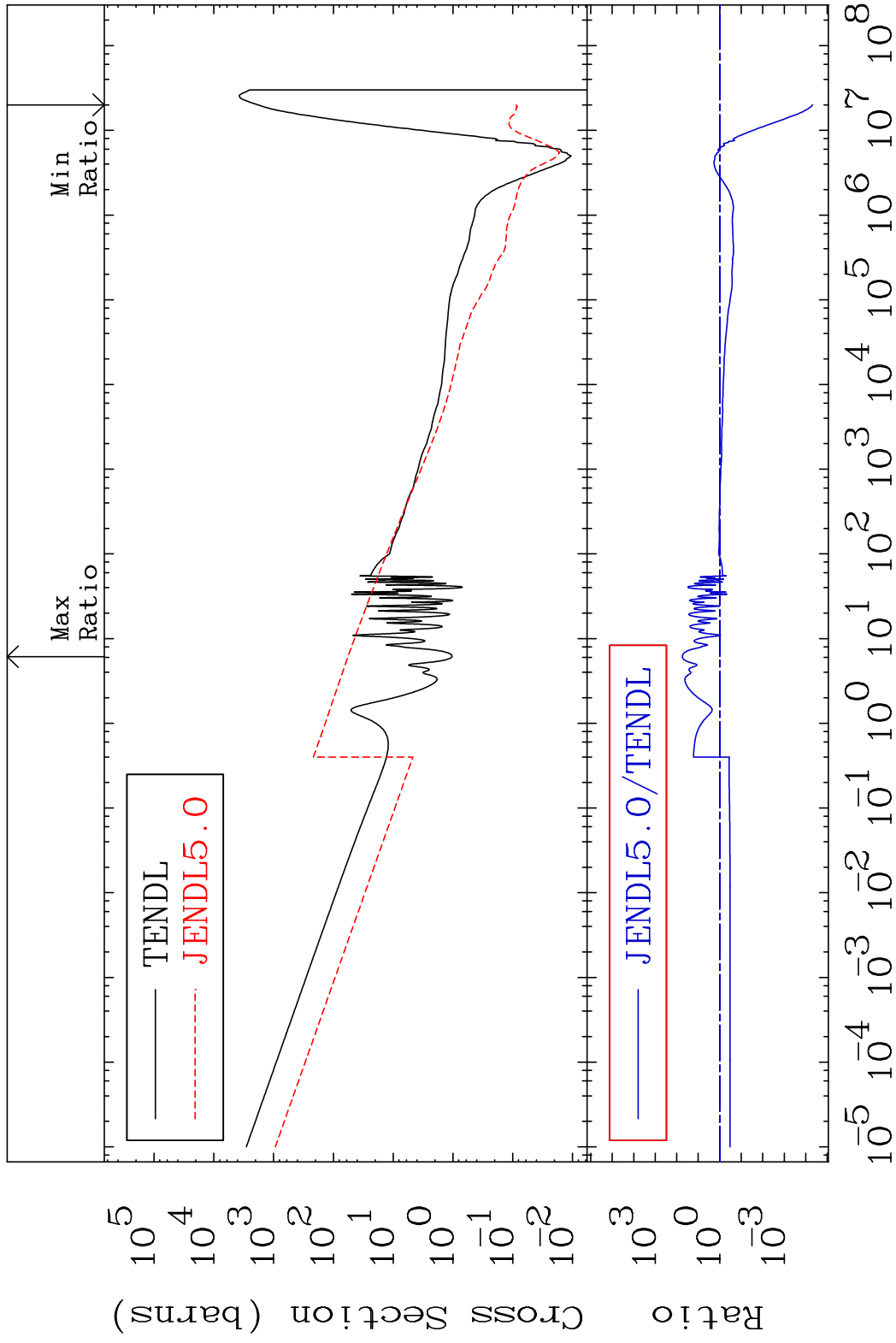


MAT 9352 Dpa inelastic (mt51-91) 93-Np-239
 Cross Section -100.0 To 1630. %

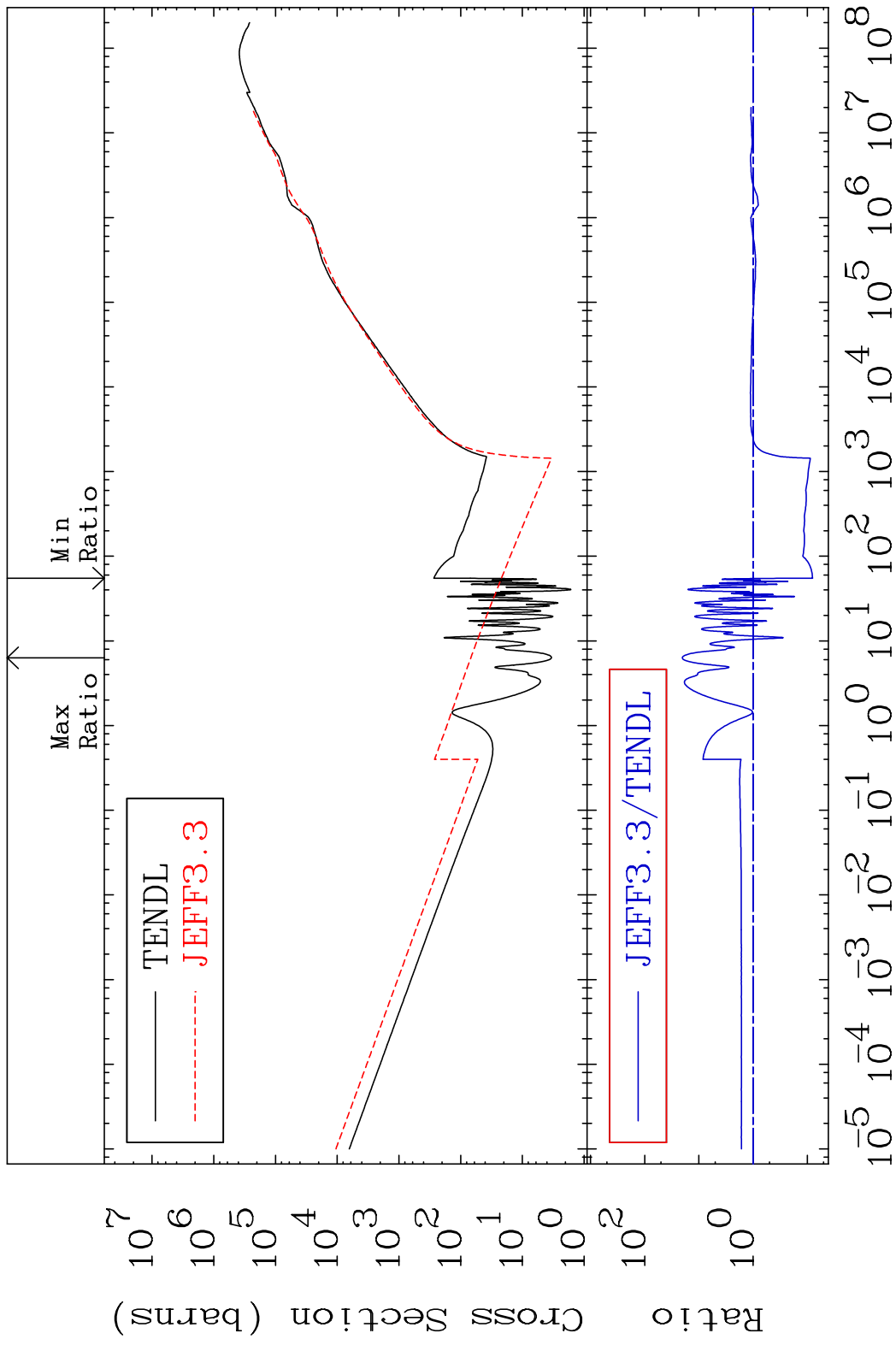


40 Incident Energy (eV) 93-Np-239

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



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



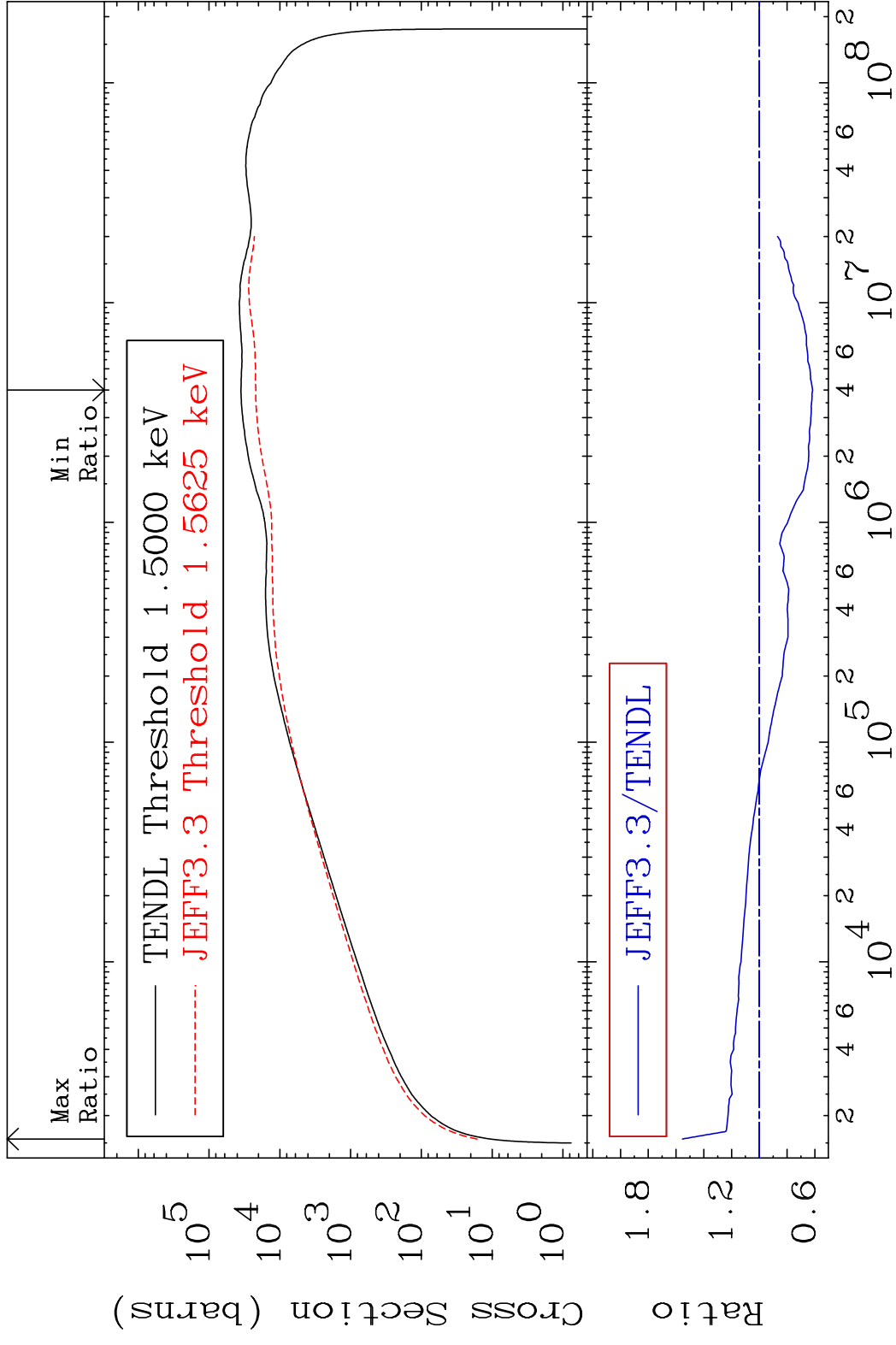
MAT 9352

Dpa elastic (mt2)

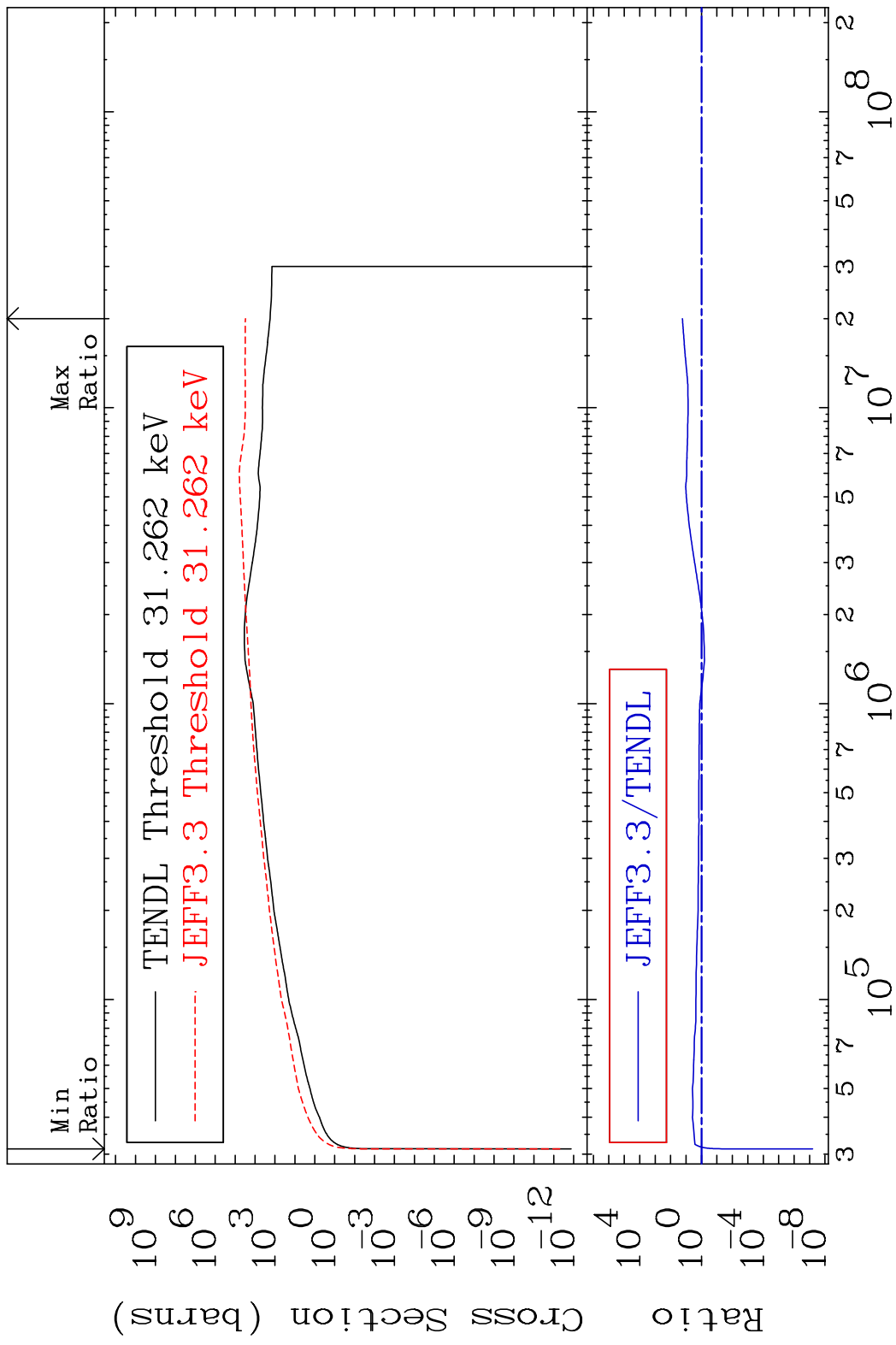
93-Np-239

Cross Section

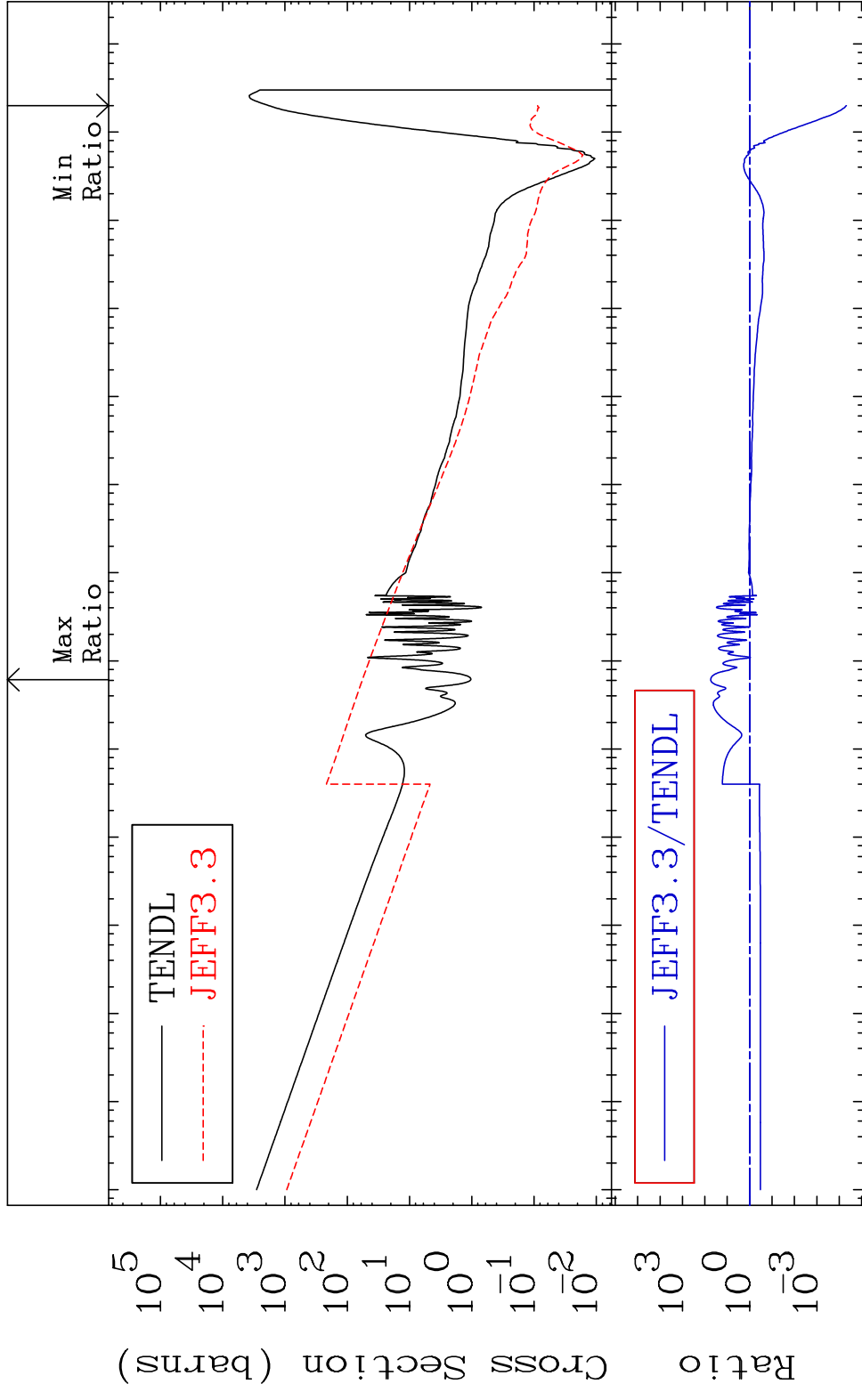
-38.36 To 55.43 %



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. %



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