

Program Complot
(Version 2021-1)

by

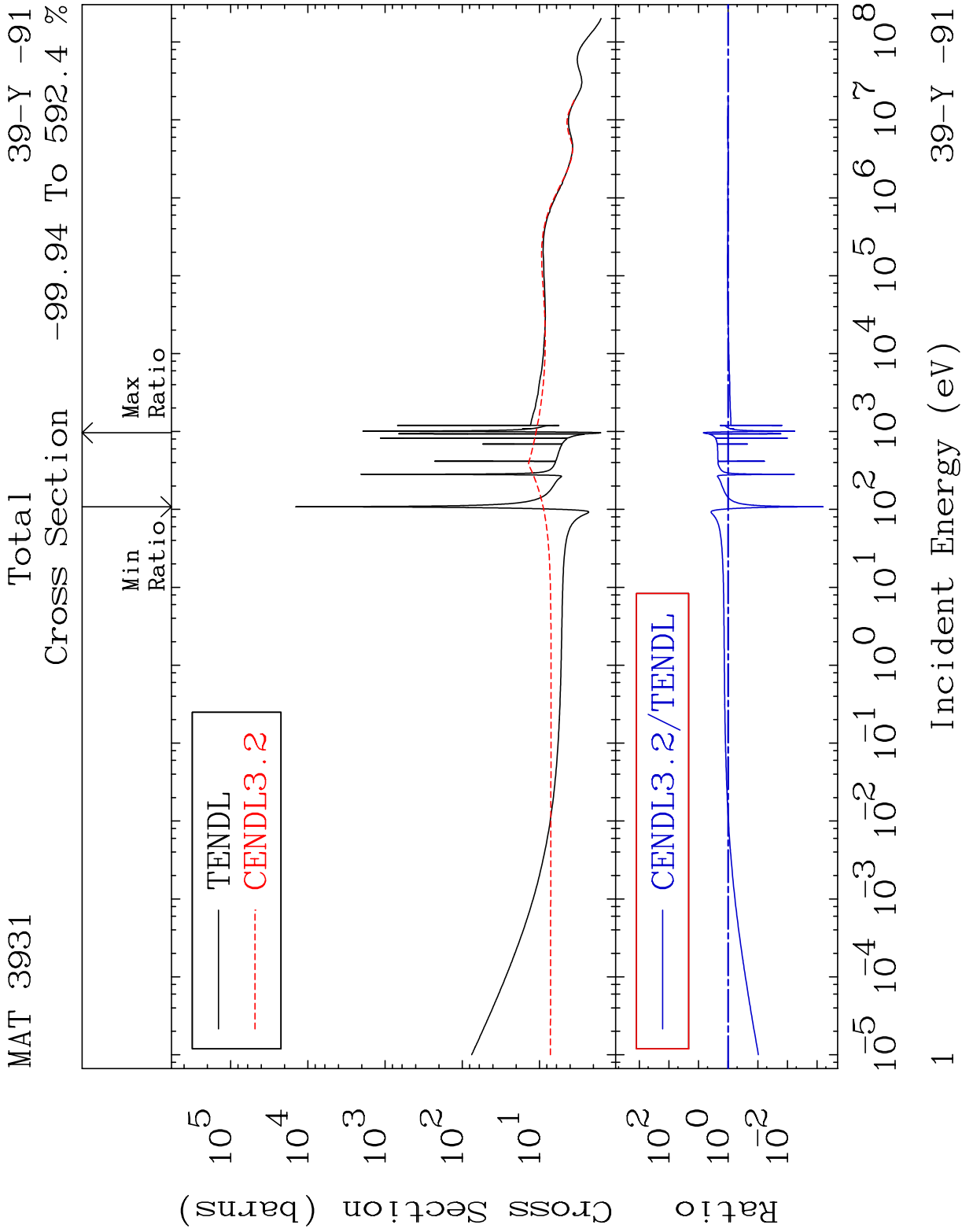
Dermott E. Cullen
(Present Contact Information)

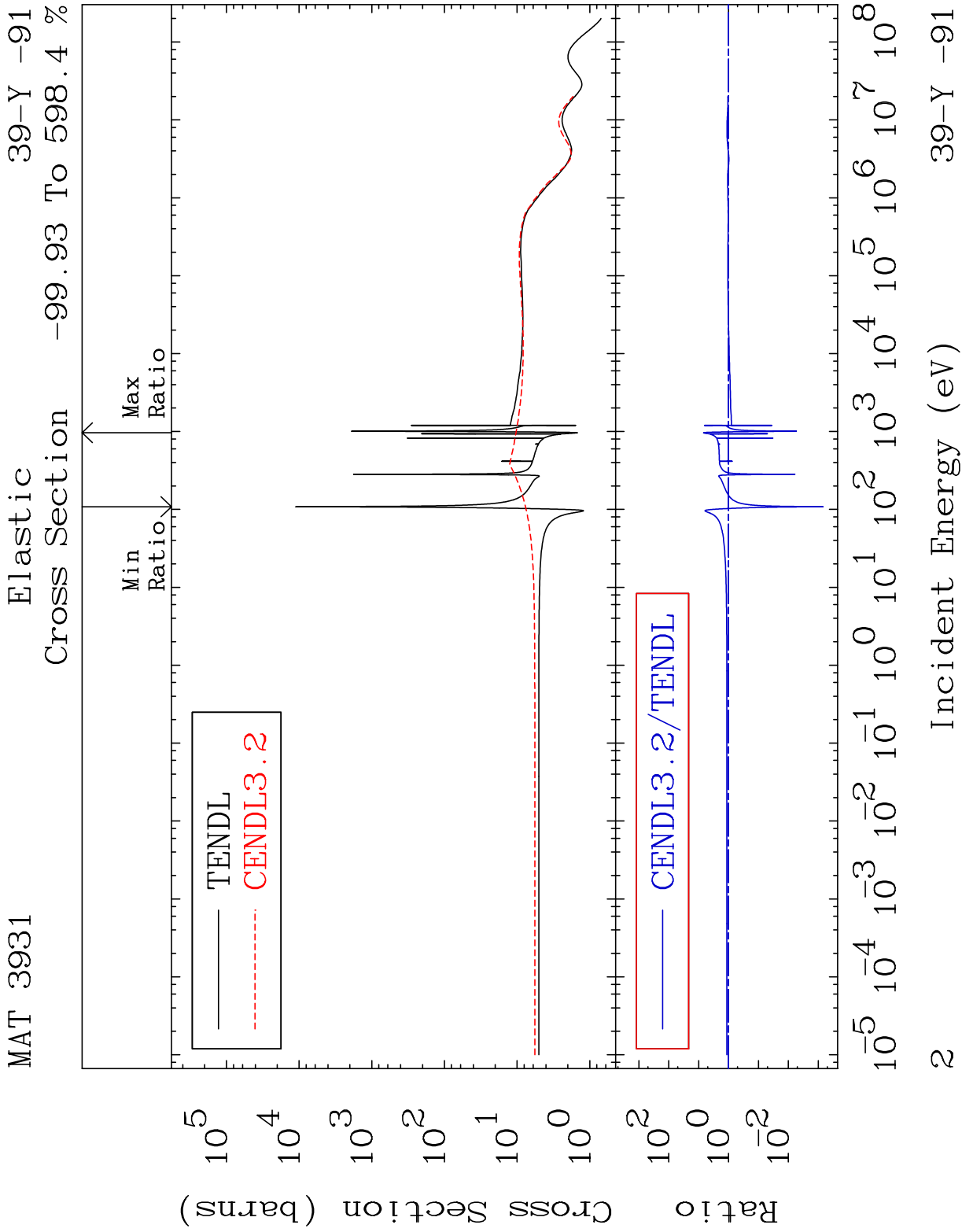
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.

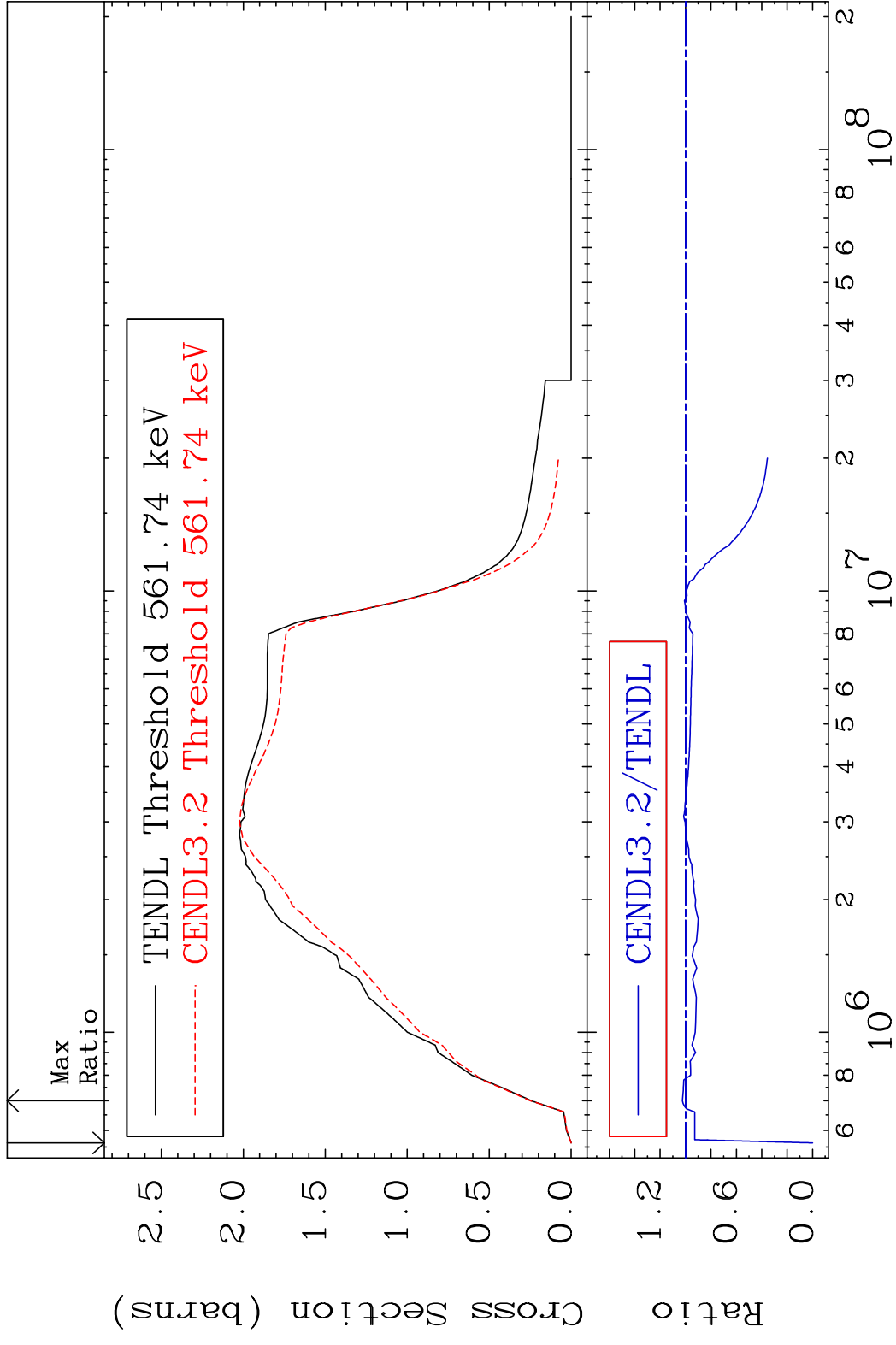
Tele: 925-443-1911

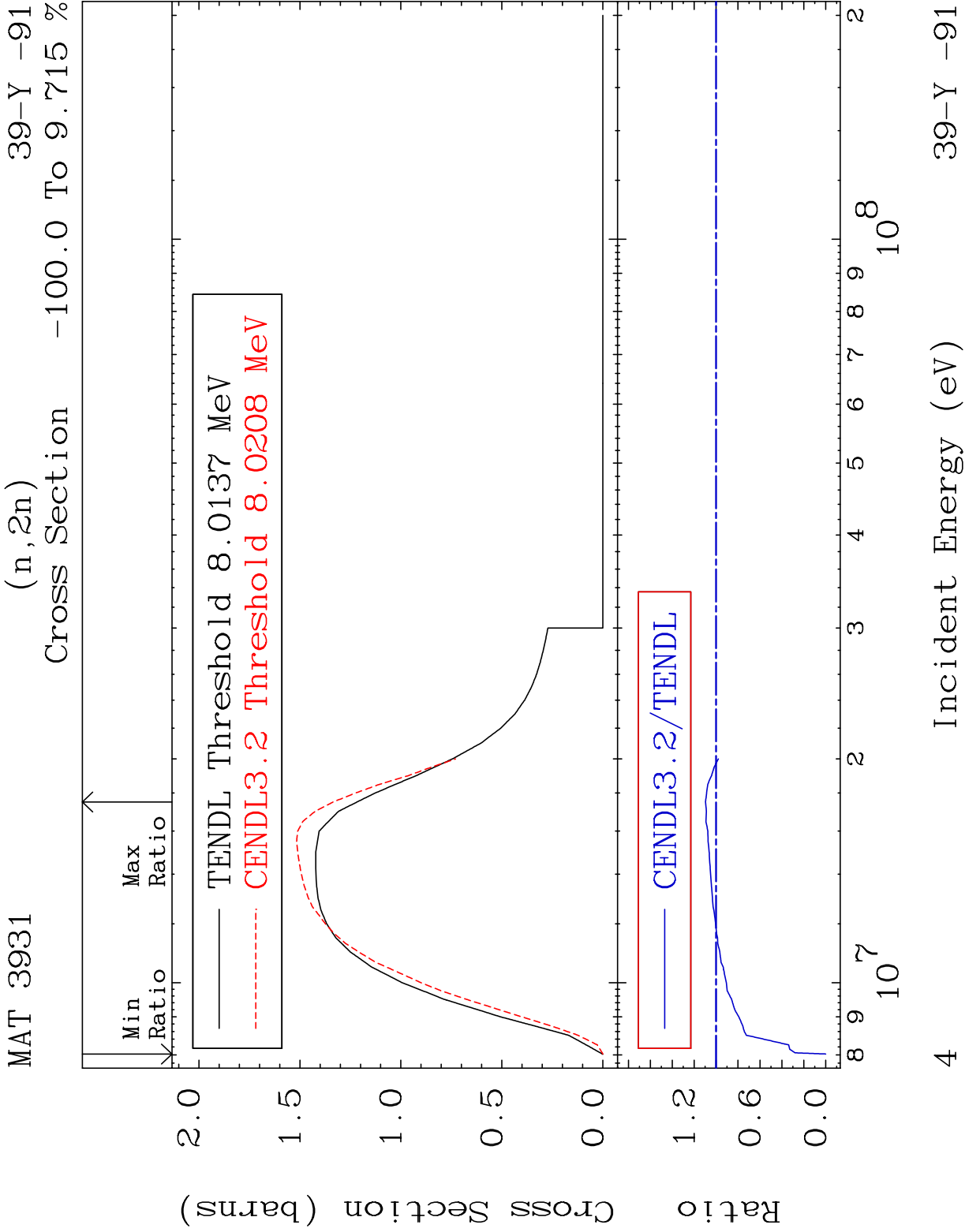
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

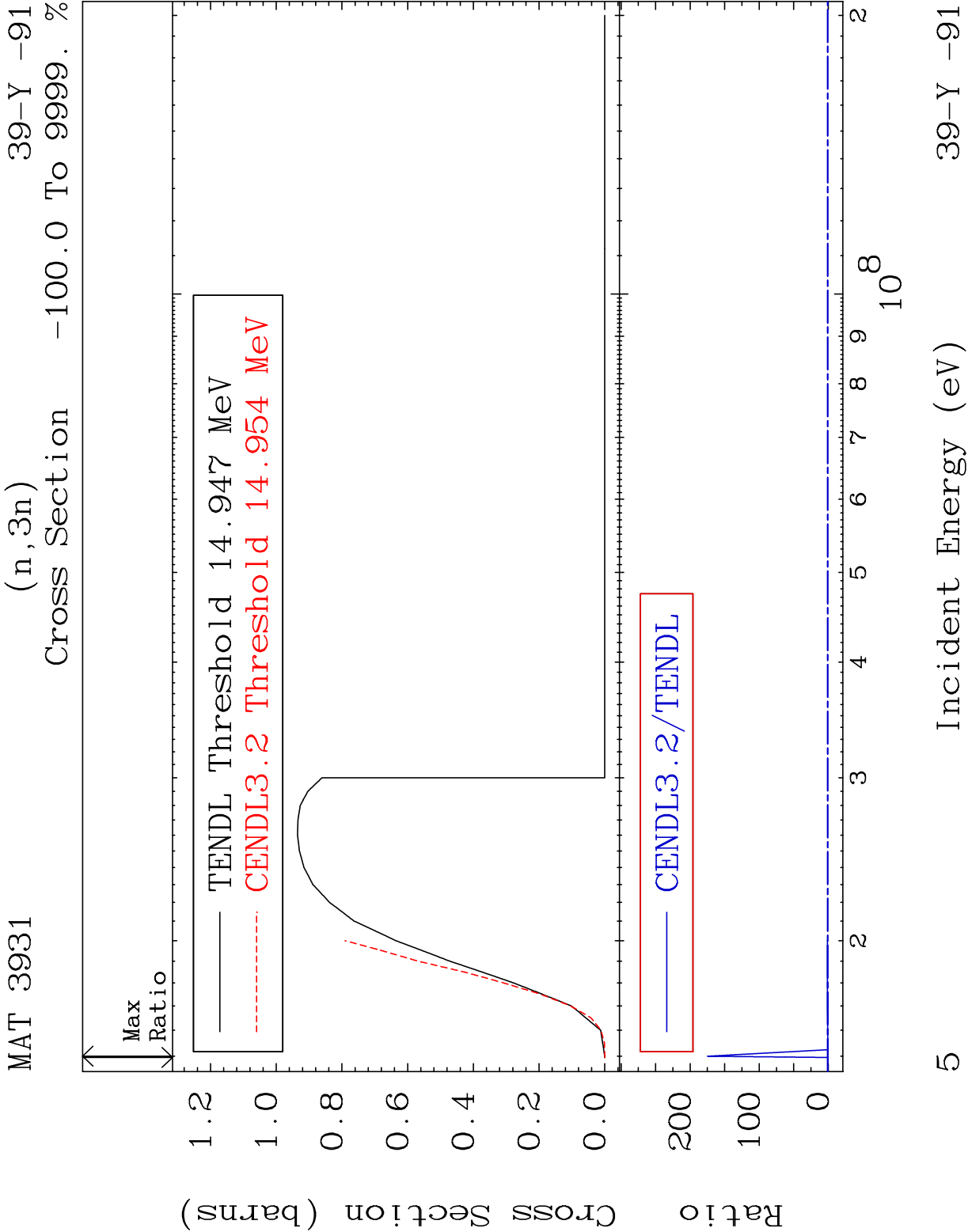
Press Mouse Button to Start

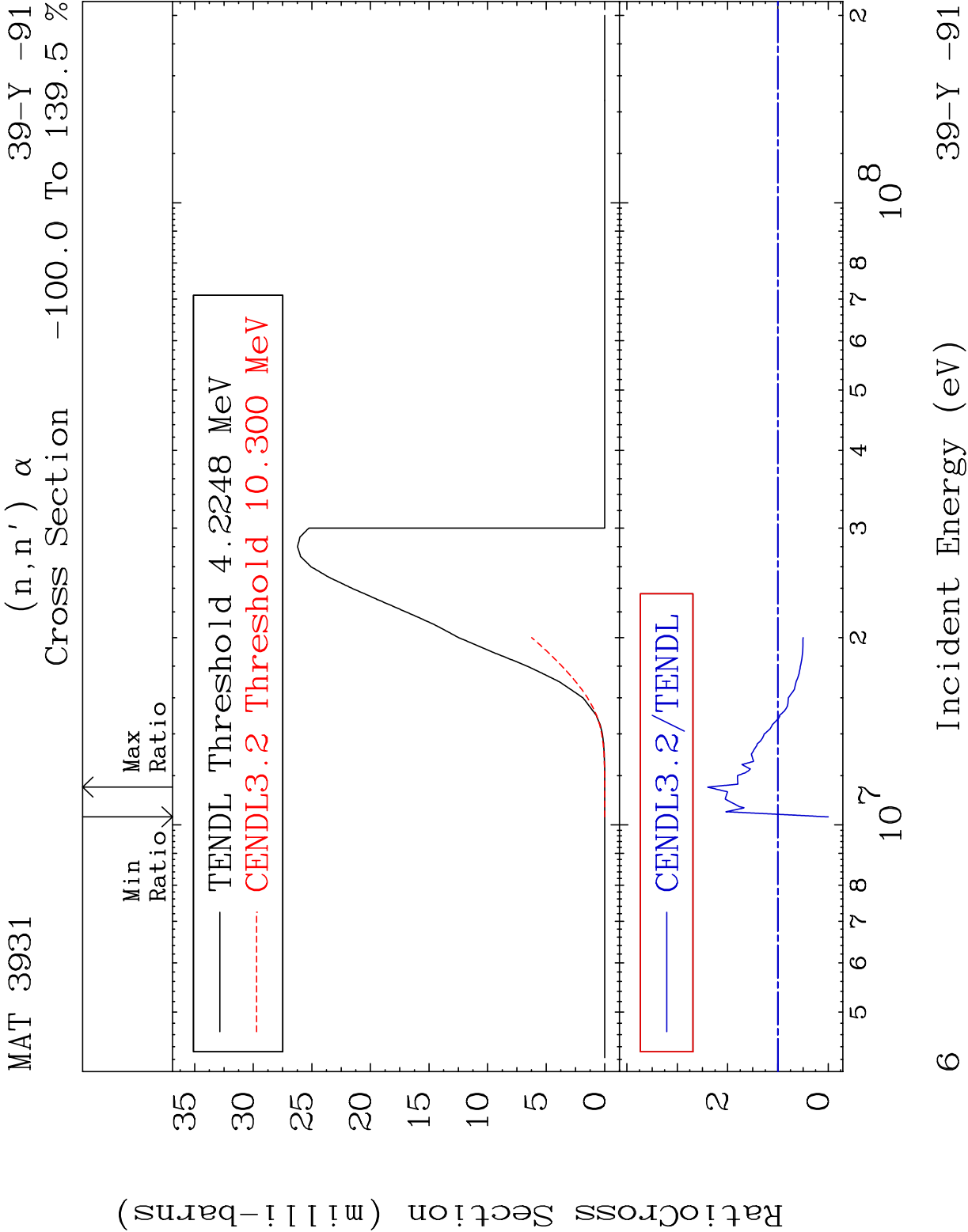


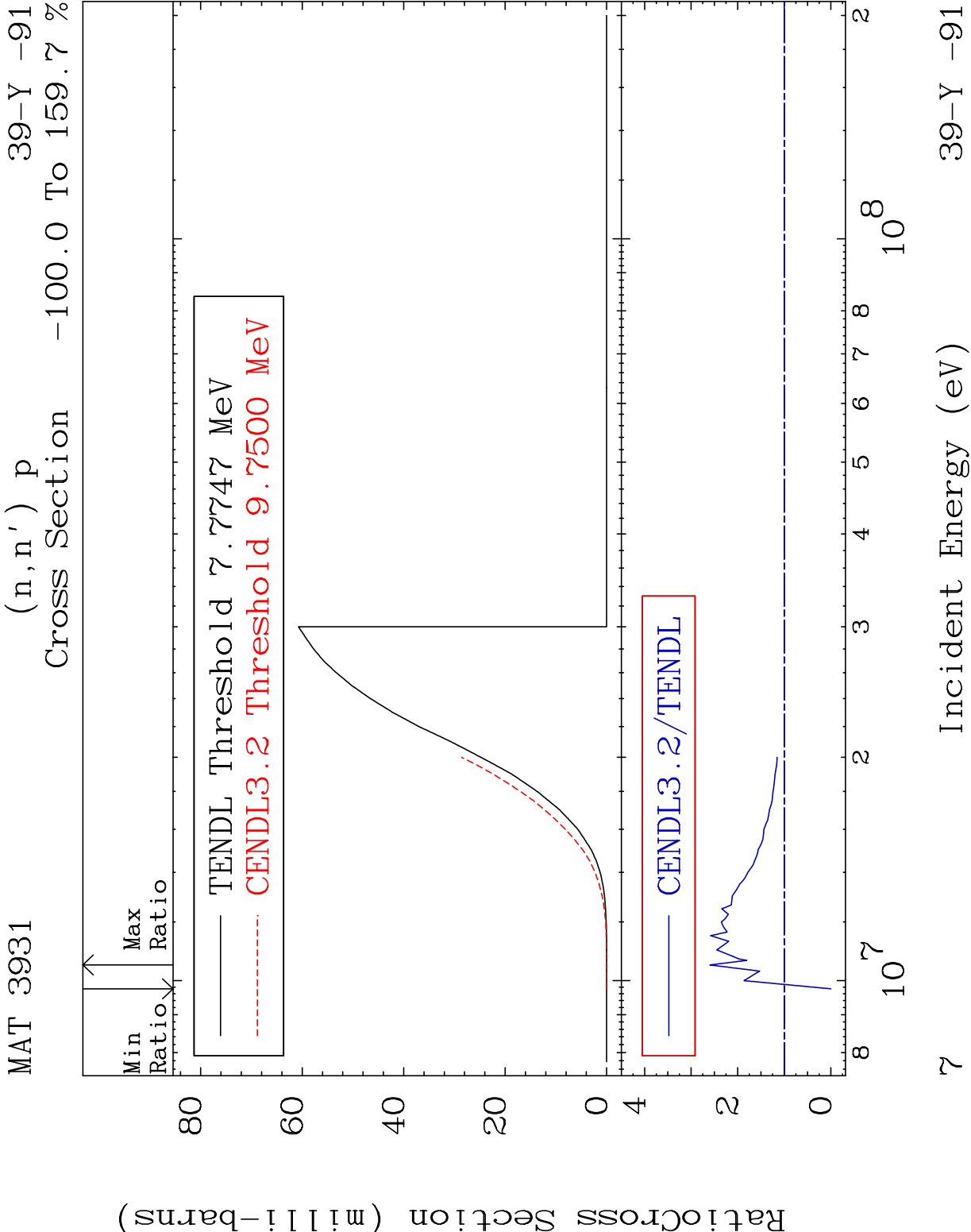




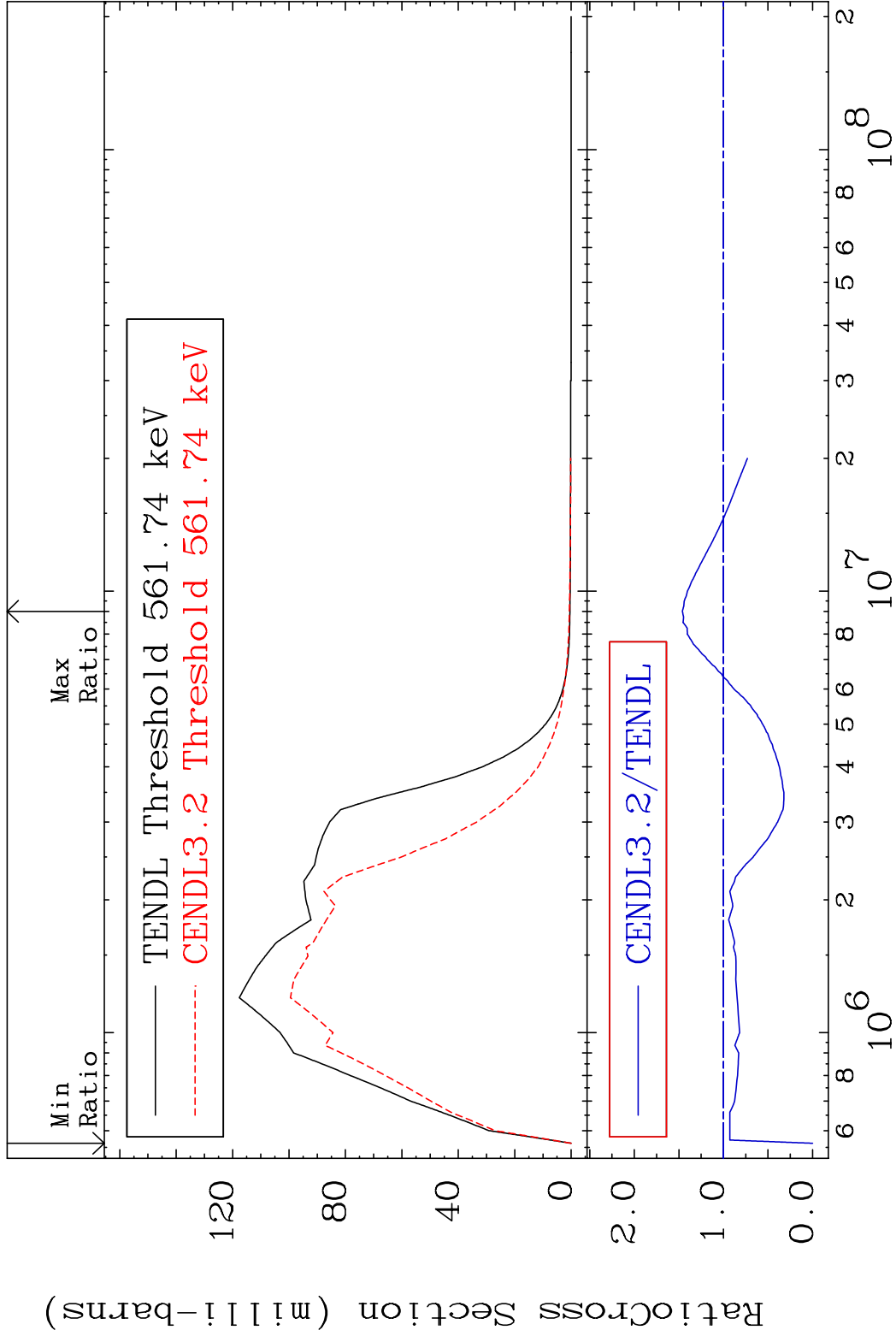






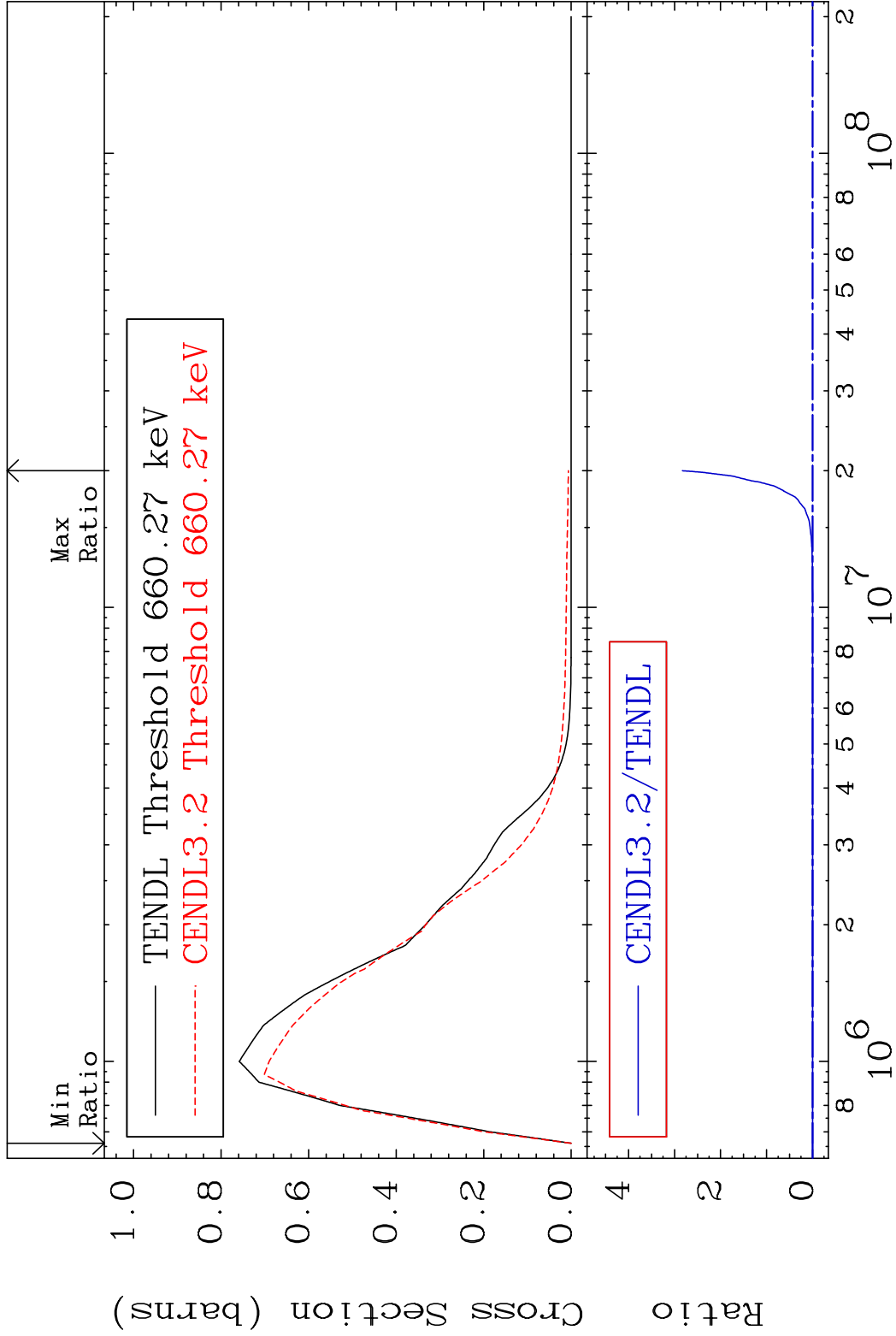


MAT 3931 MT= 51 (n,n') Level 39-Y -91
Cross Section -100.0 To 46.08 %

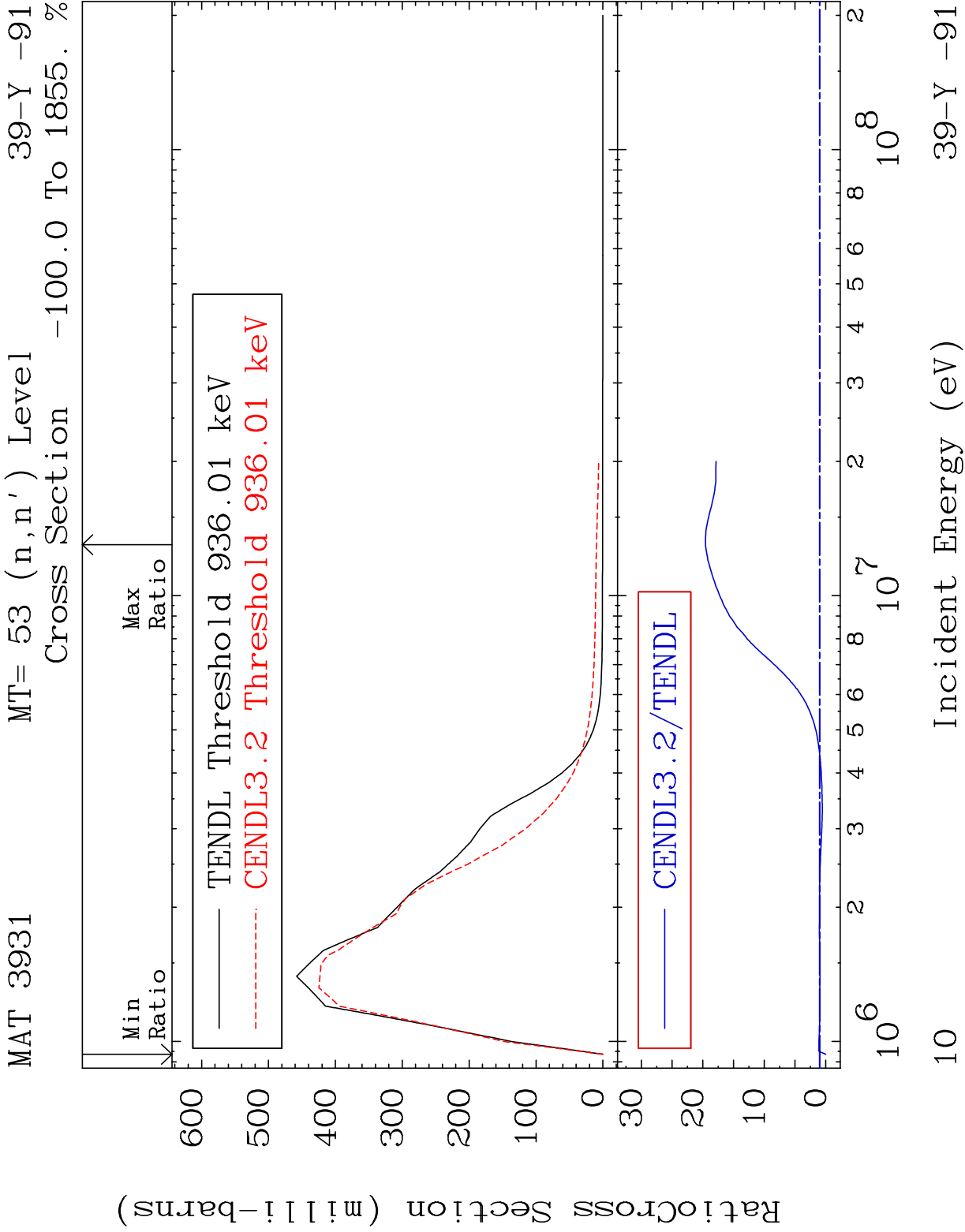


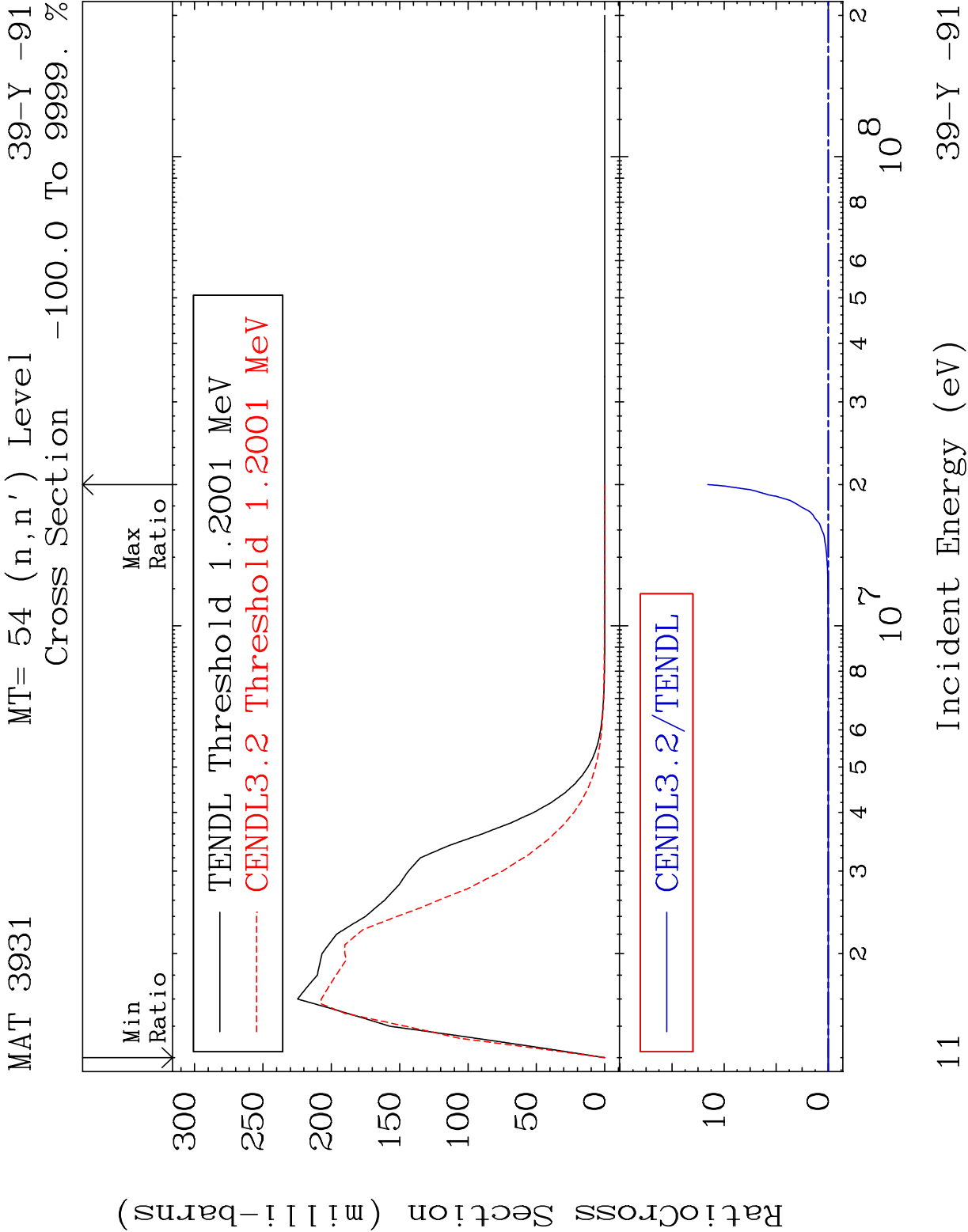
MAT 3931 MT= 52 (n,n') Level 39-Y -91

Cross Section -100.0 To 9999. %

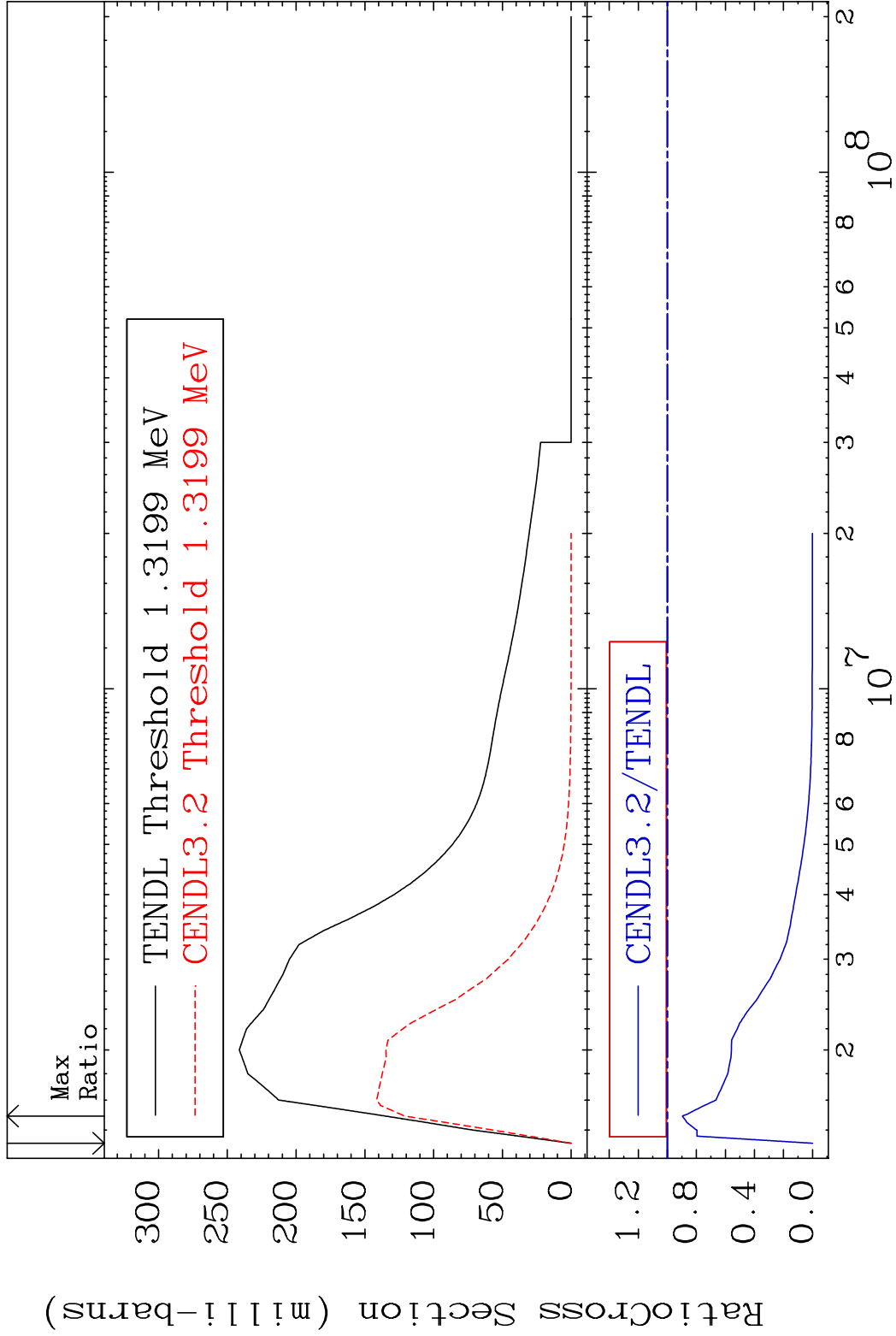


9 Incident Energy (eV) 39-Y -91

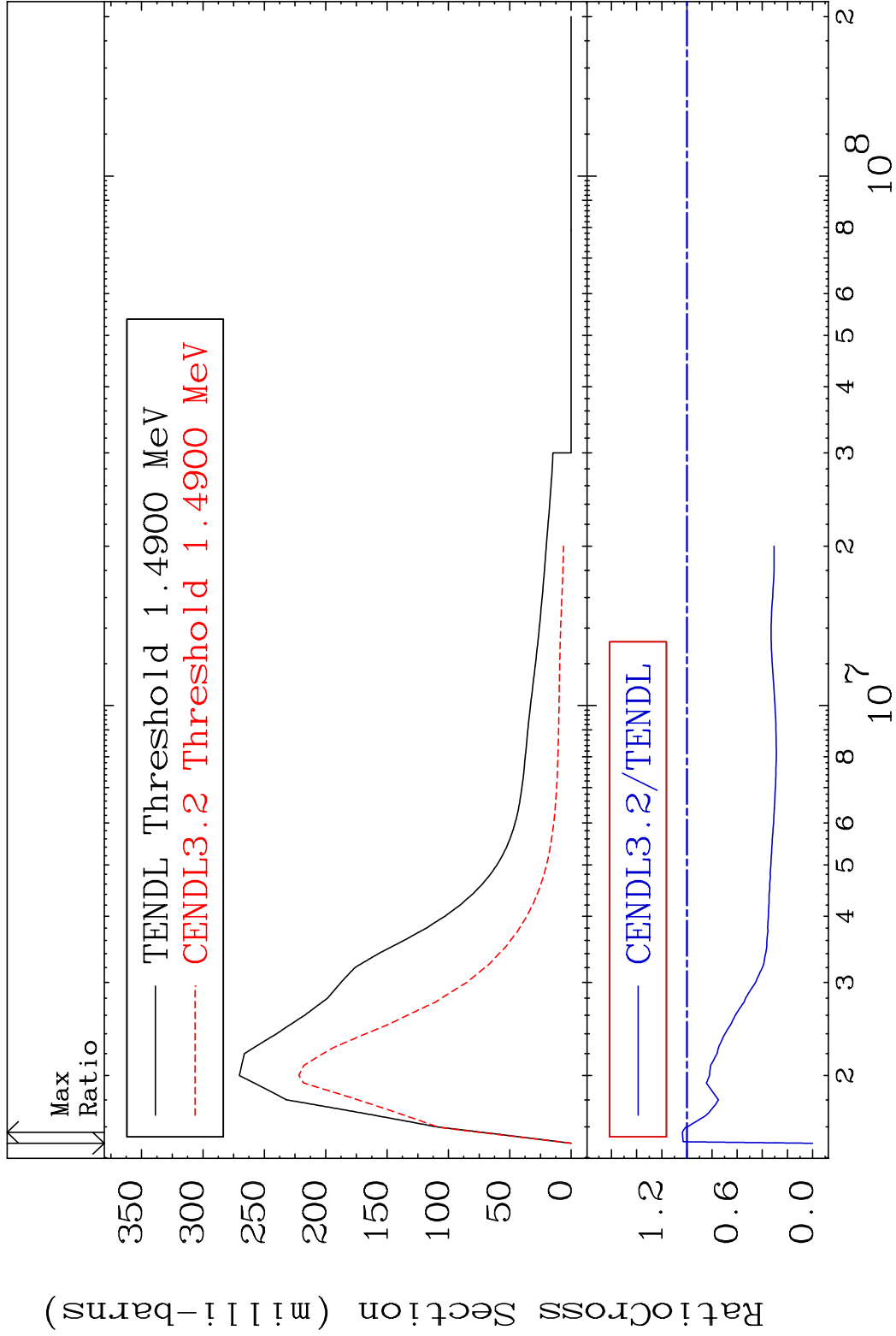




MAT 3931 MT= 55 (n,n') Level 39-Y -91
Cross Section -100.0 To -10.34%

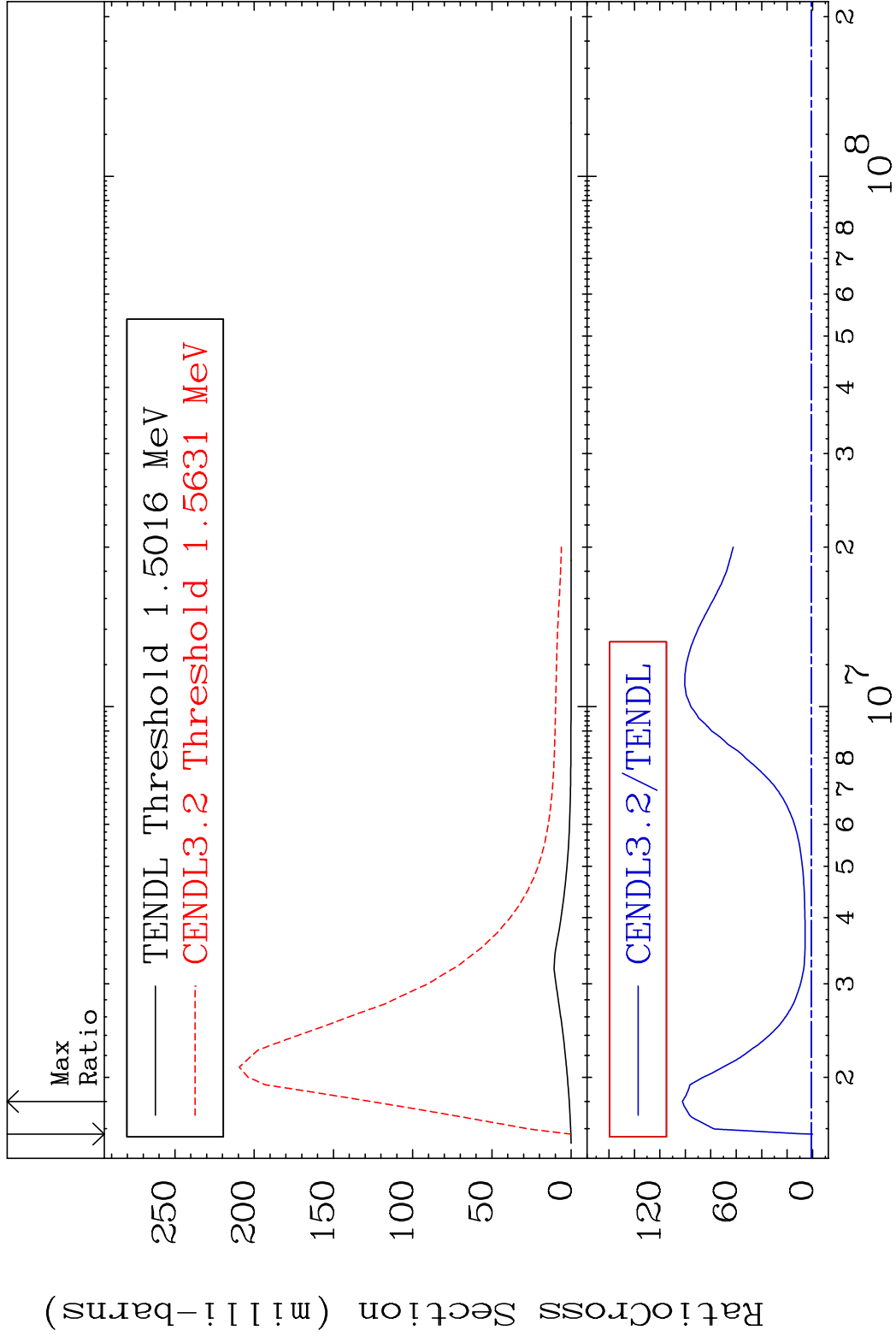


MAT 3931 MT= 56 (n,n') Level 39-Y -91
Cross Section -100.0 To 3.625 %

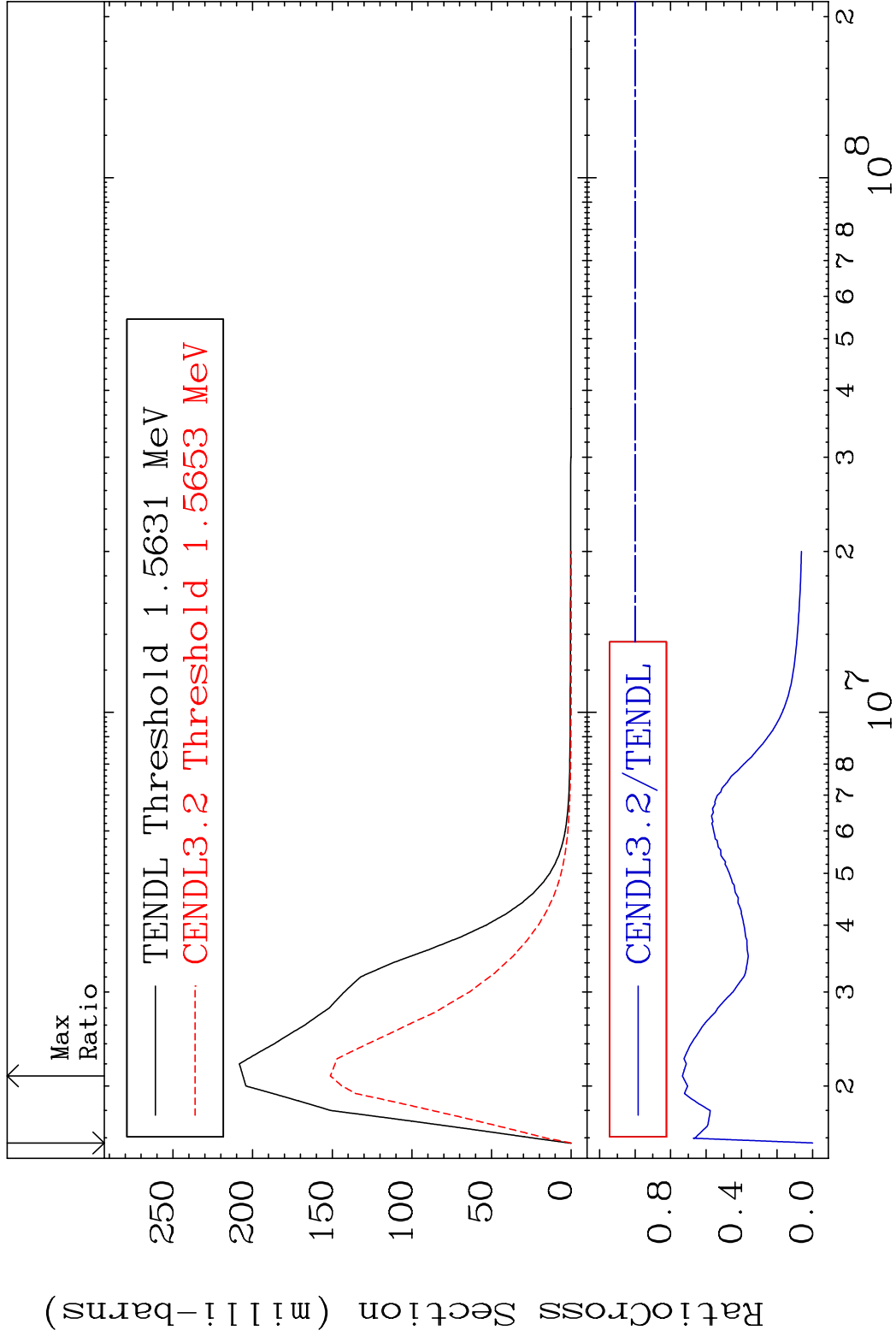


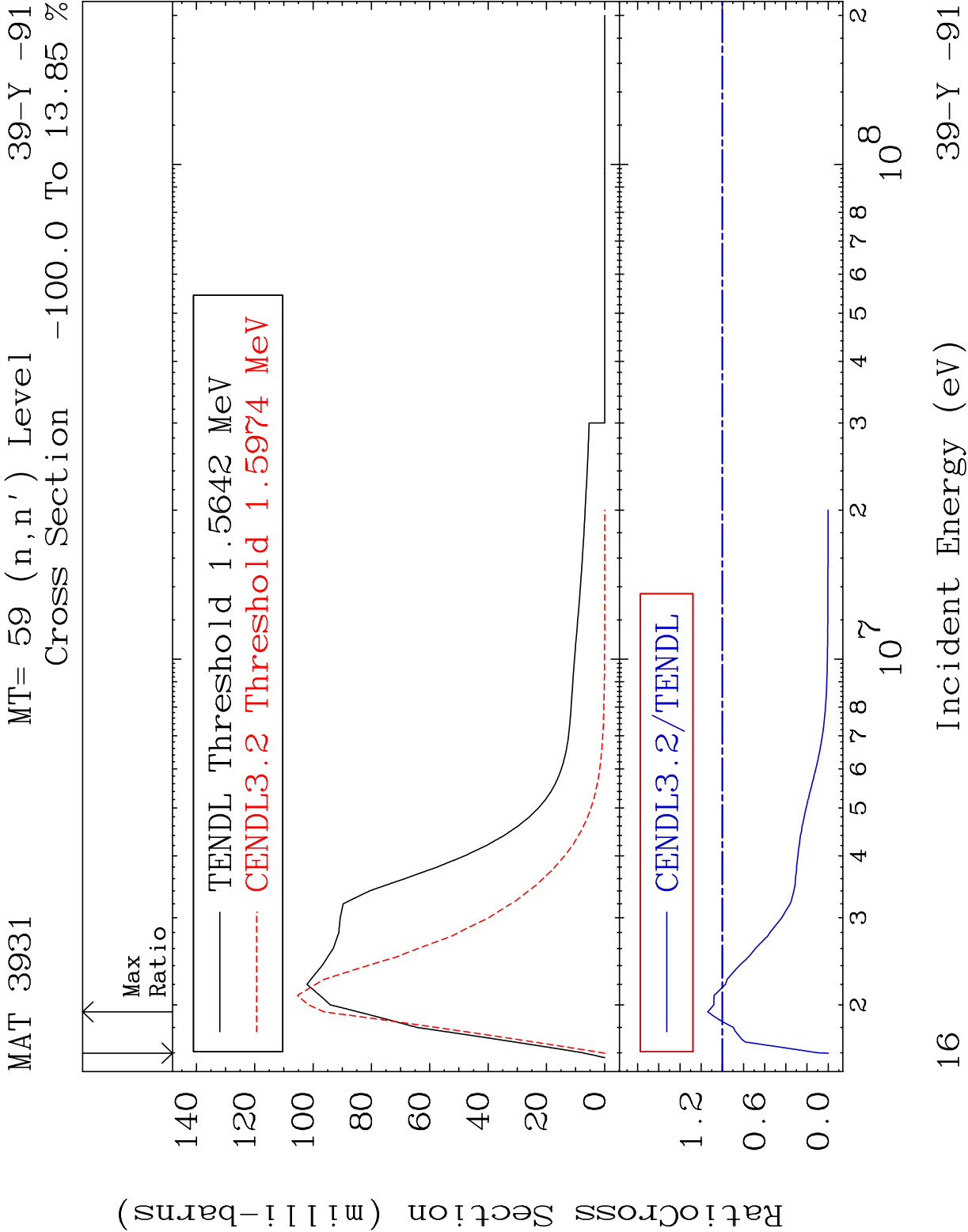
MAT 3931 MT= 57 (n,n') Level 39-Y -91

Cross Section -100.0 To 9999. %

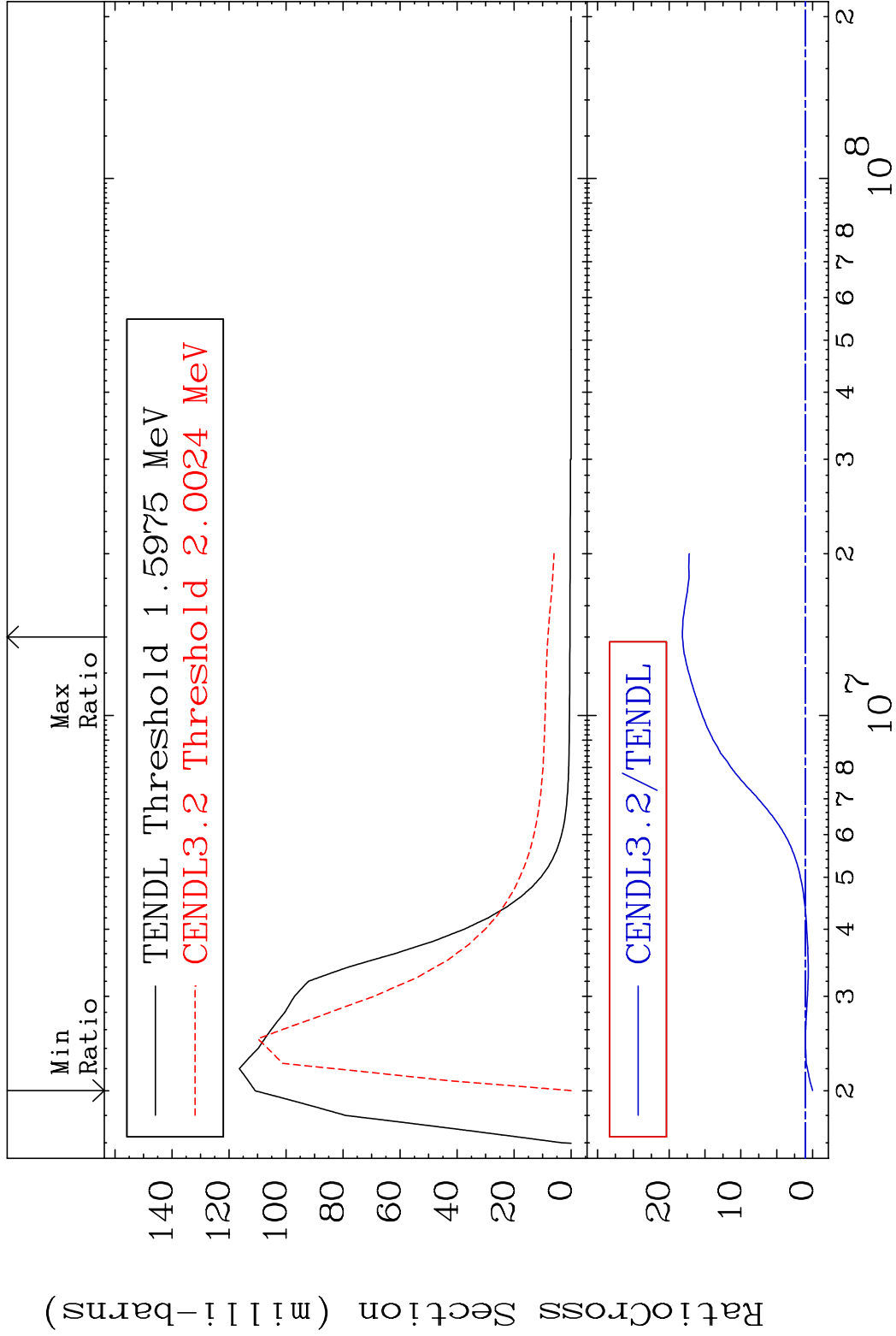


MAT 3931 MT= 58 (n,n') Level 39-Y -91
Cross Section -100.0 To -26.64%

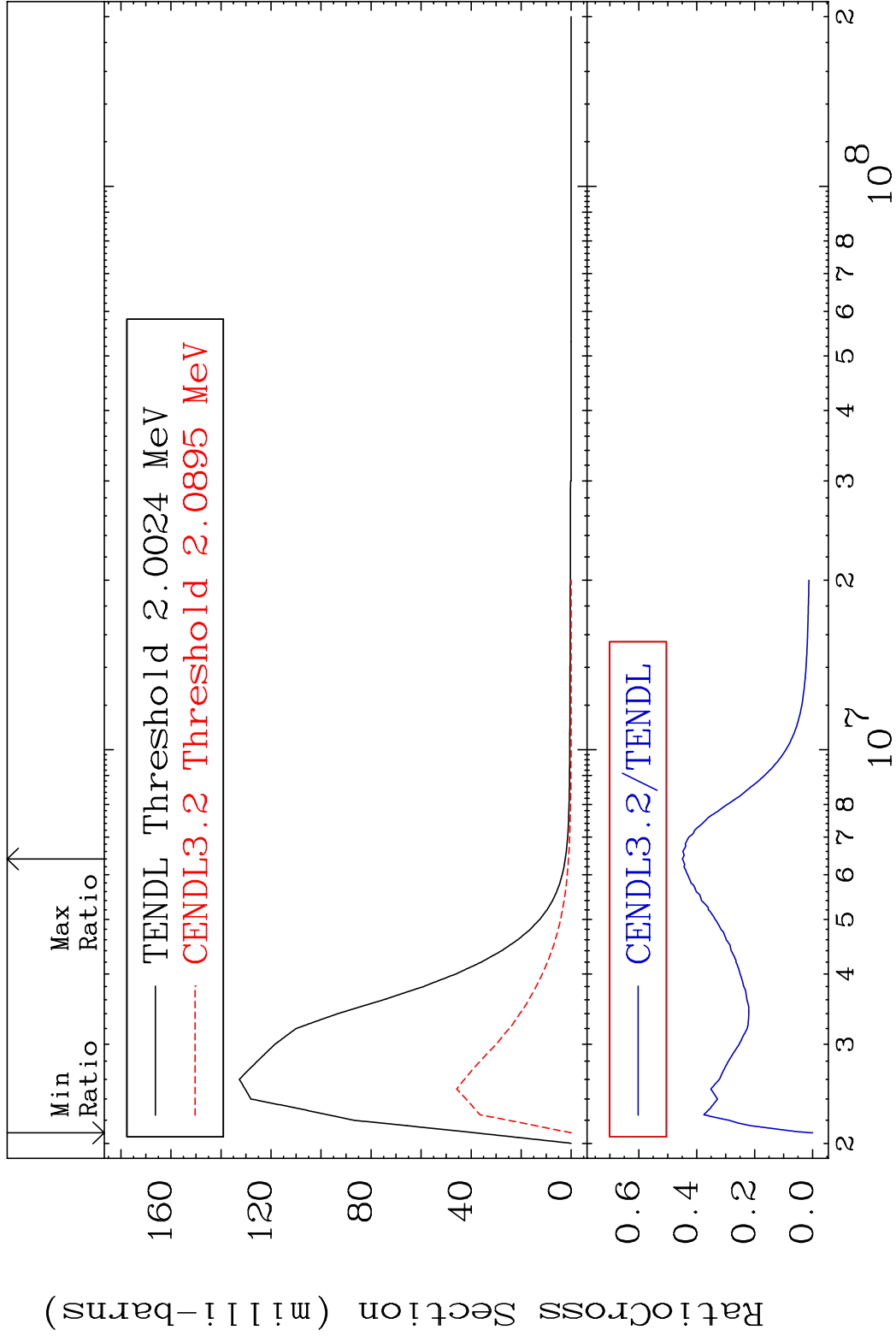


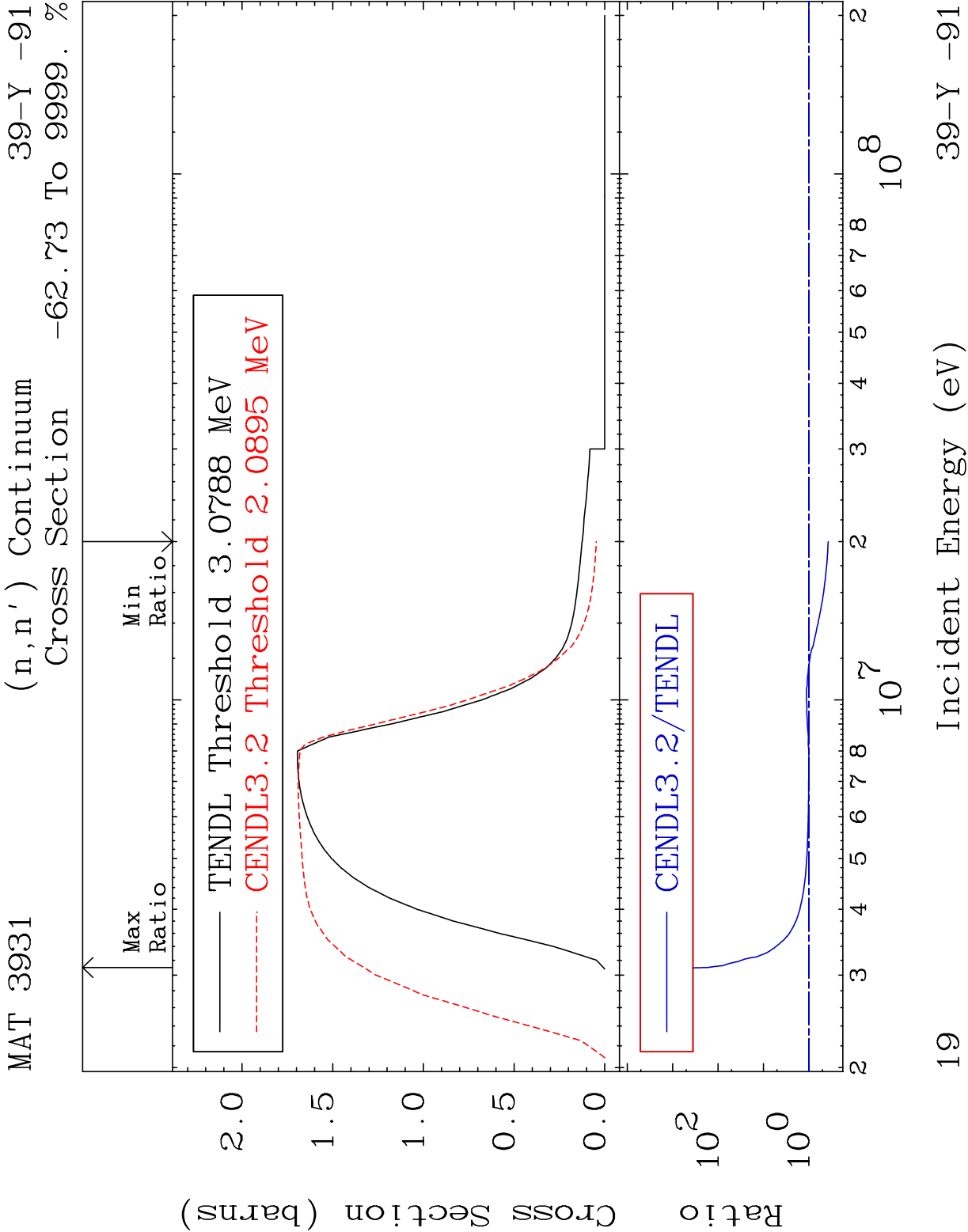


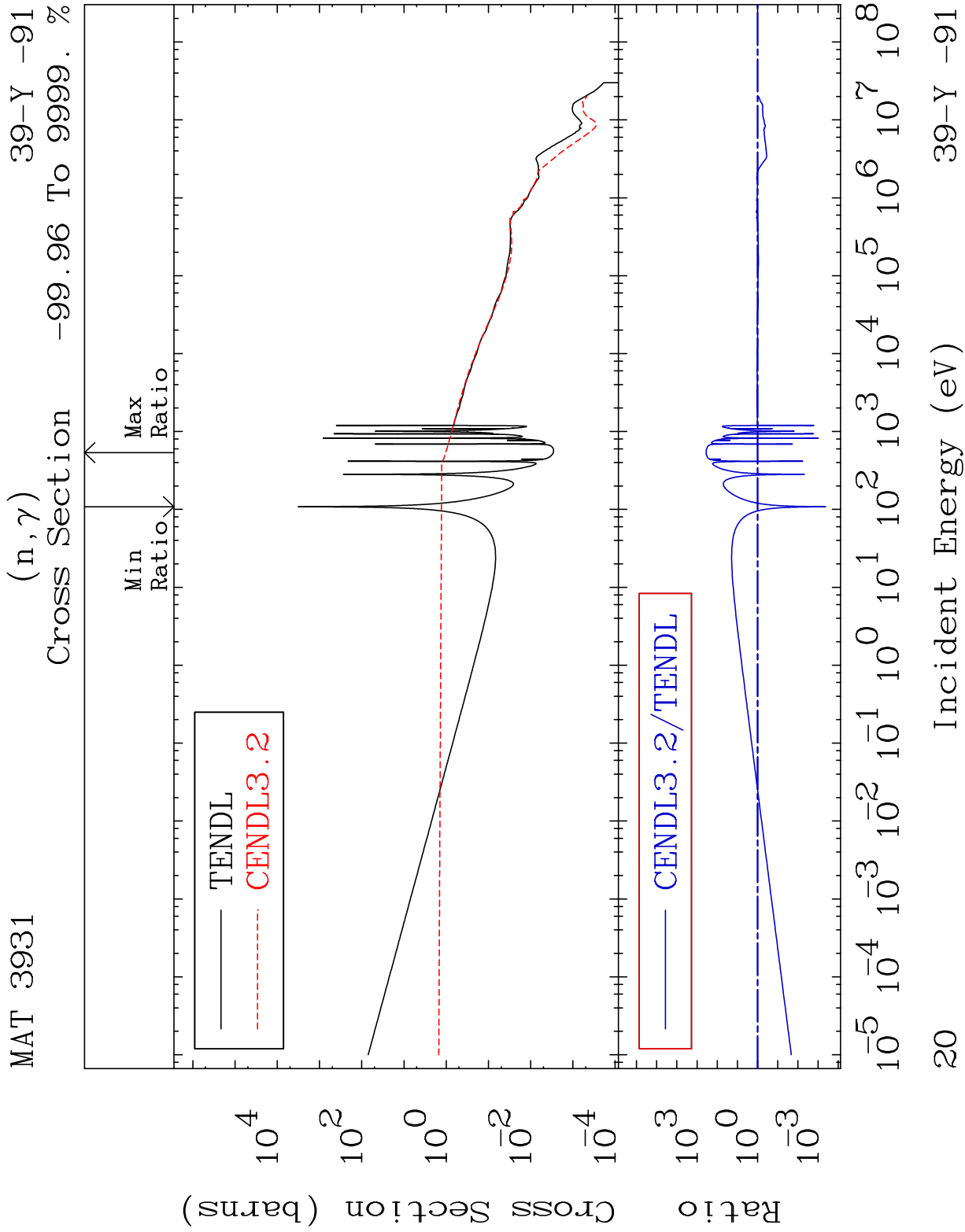
MAT 3931 MT= 60 (n,n') Level 39-Y -91
Cross Section -100.0 To 1717. %

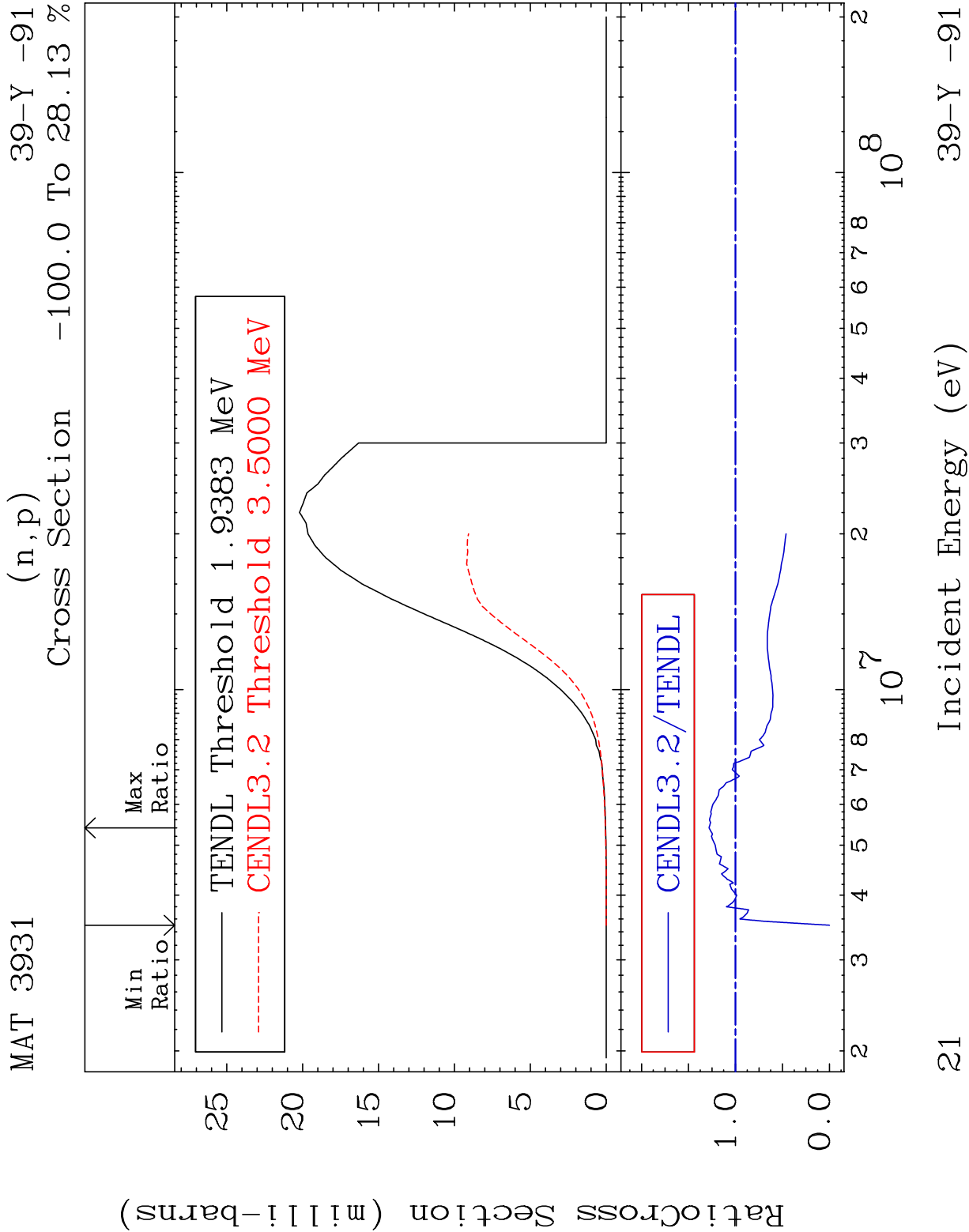


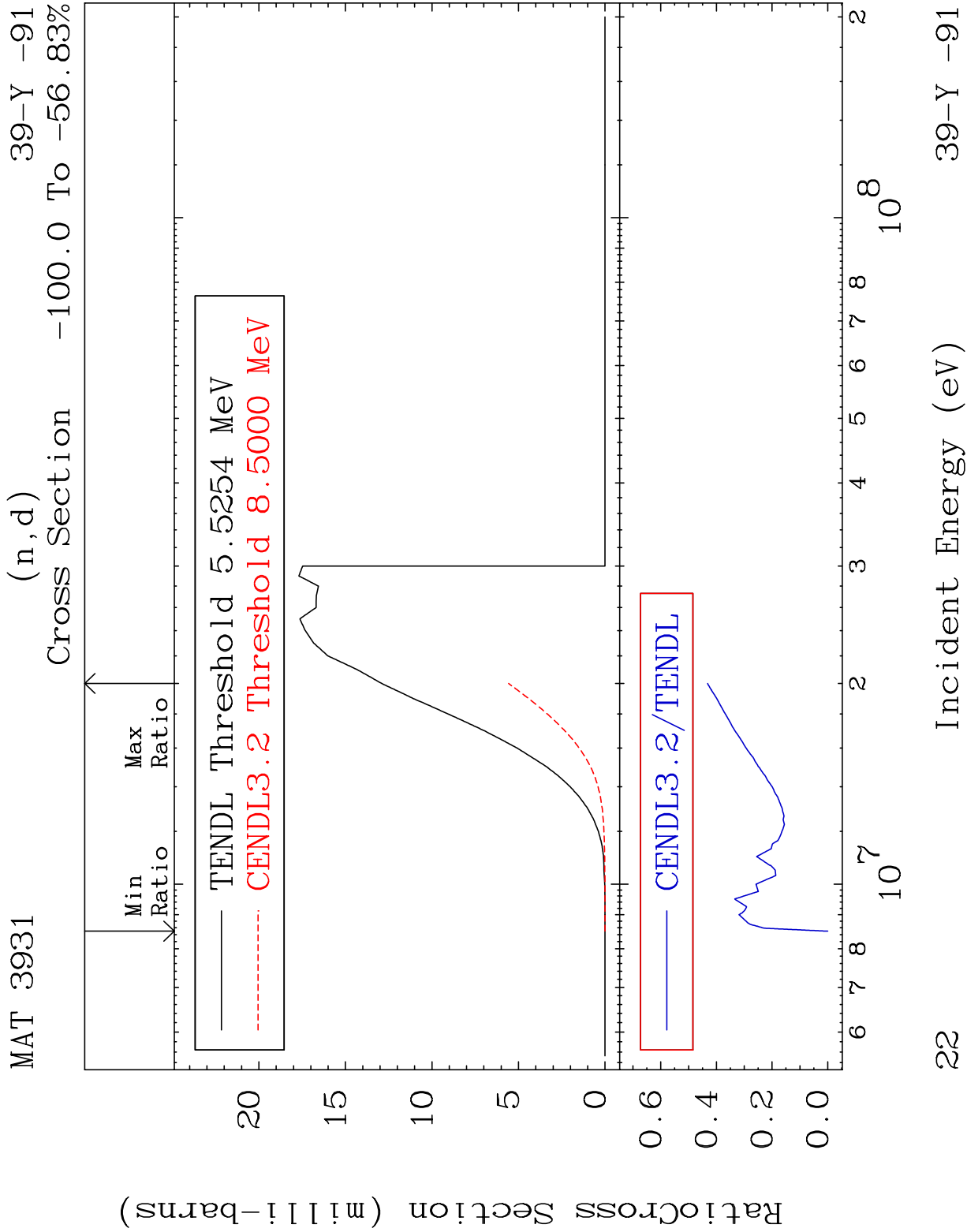
MAT 3931 MT= 61 (n,n') Level 39-Y -91
Cross Section -100.0 To -55.06%

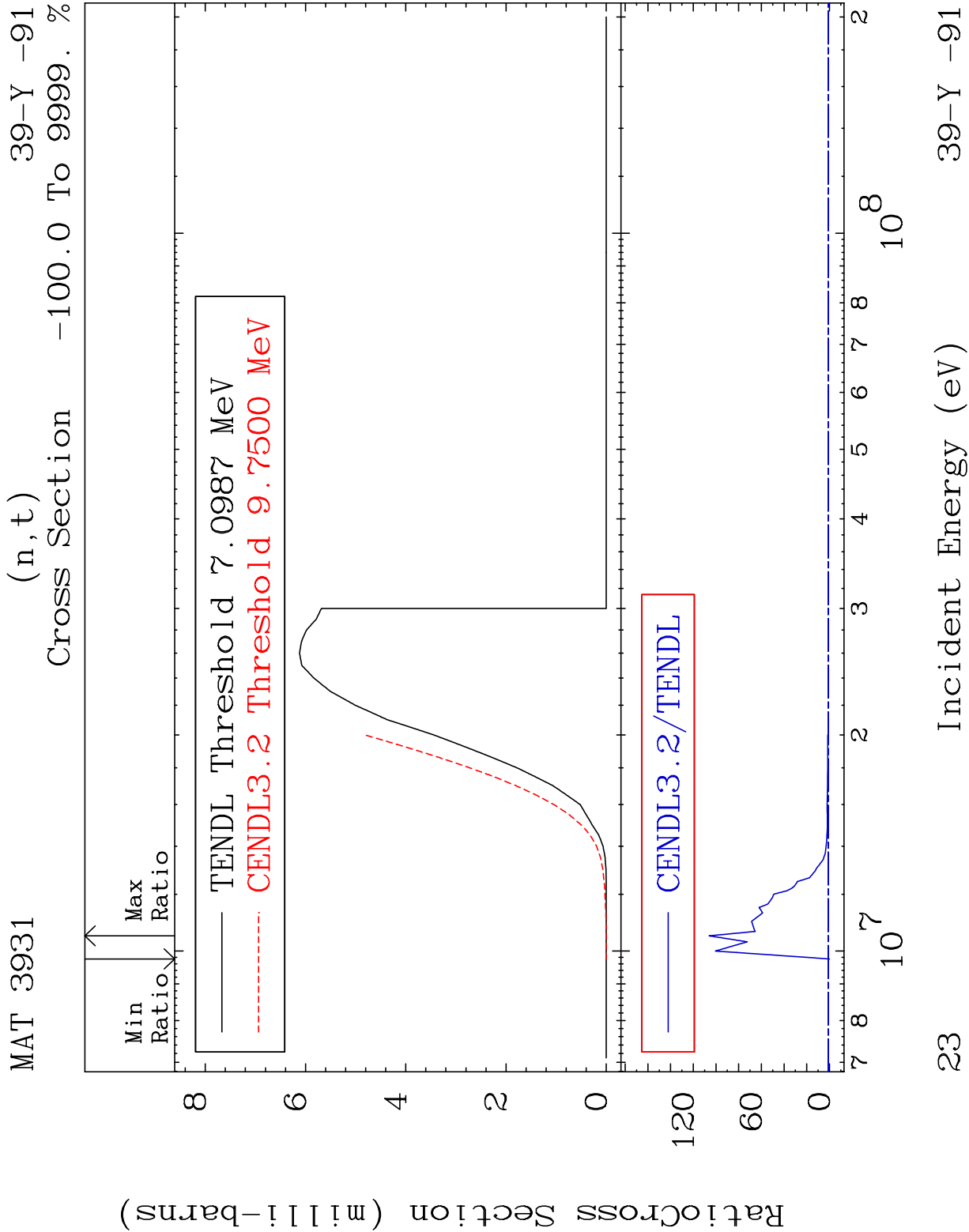


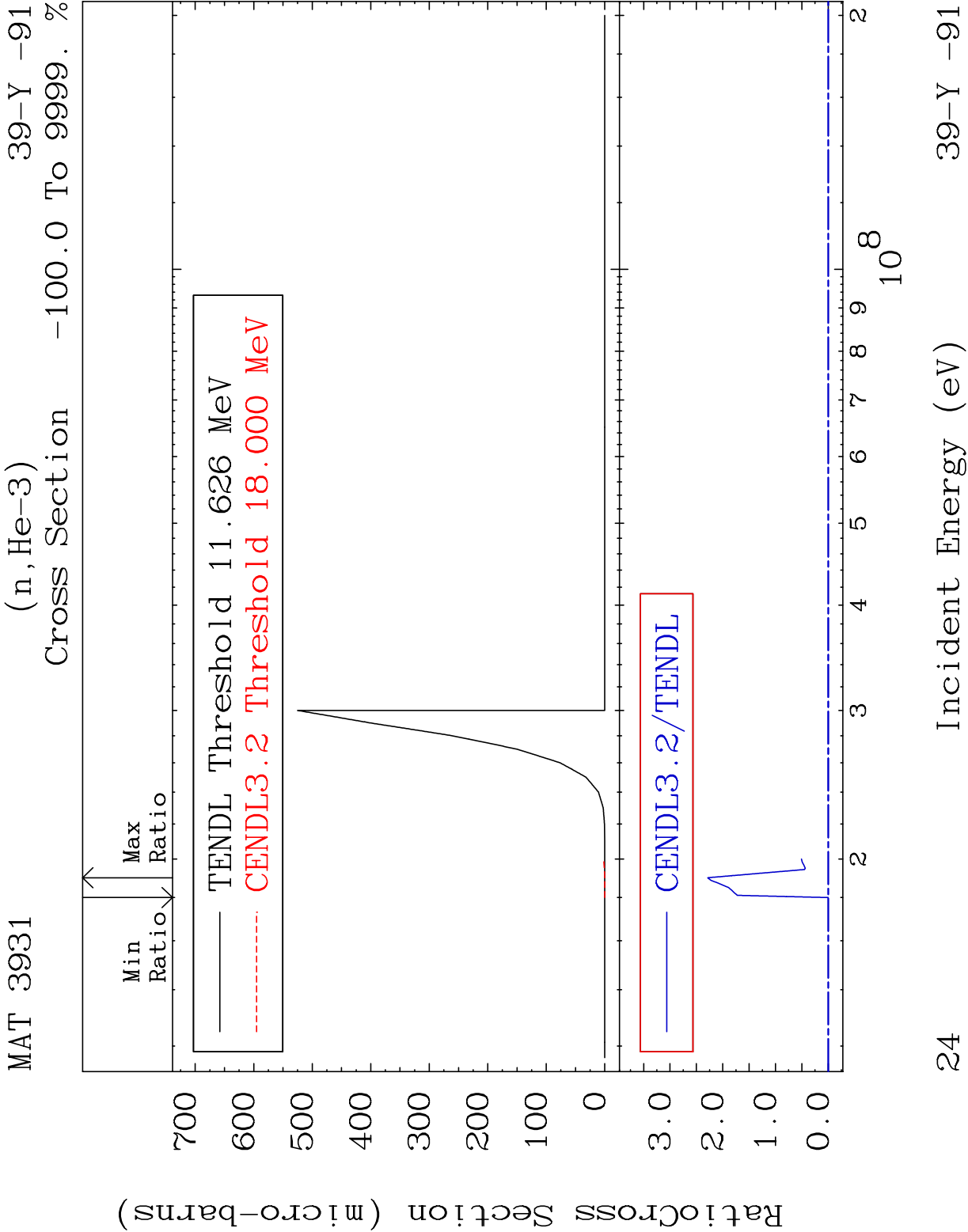










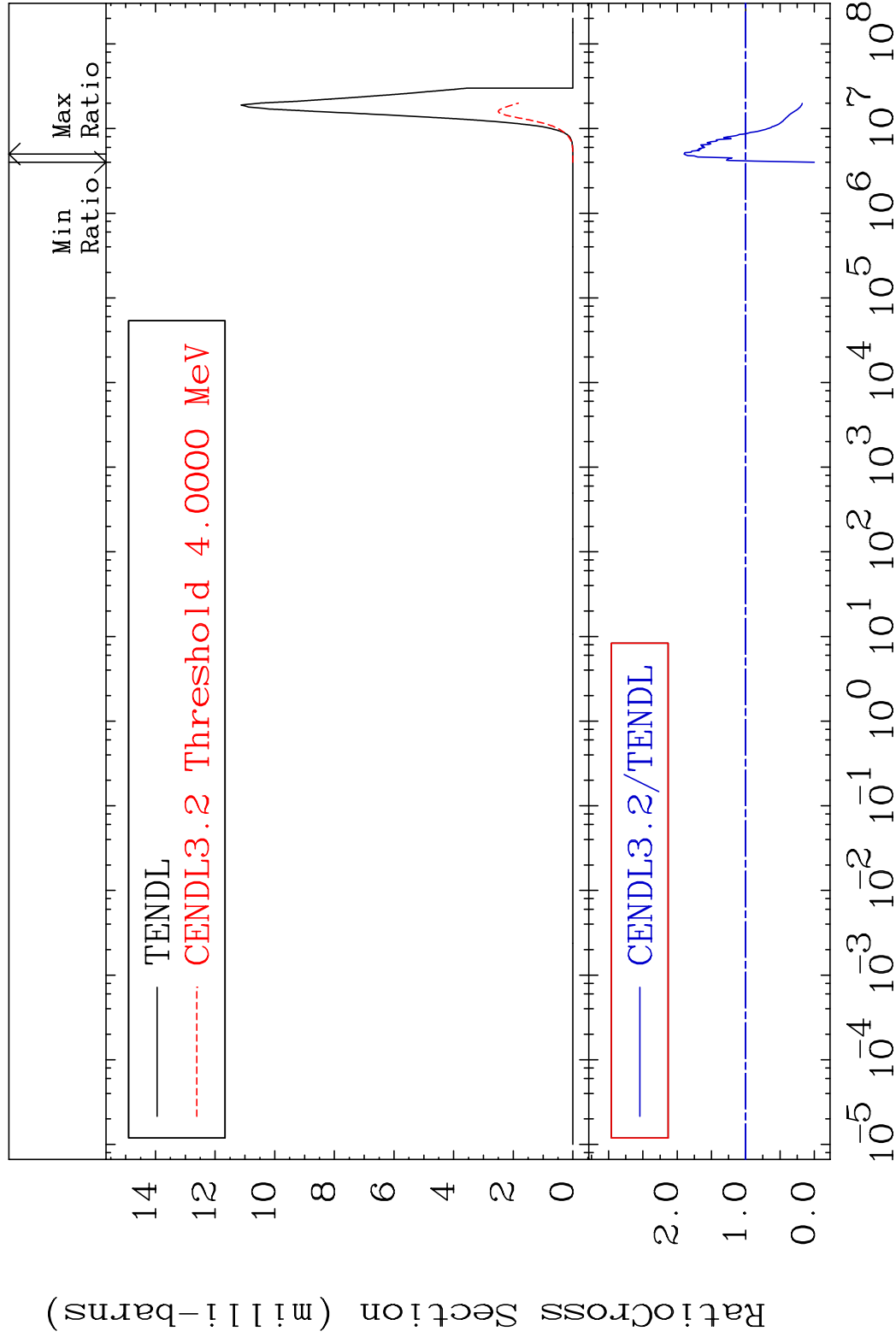


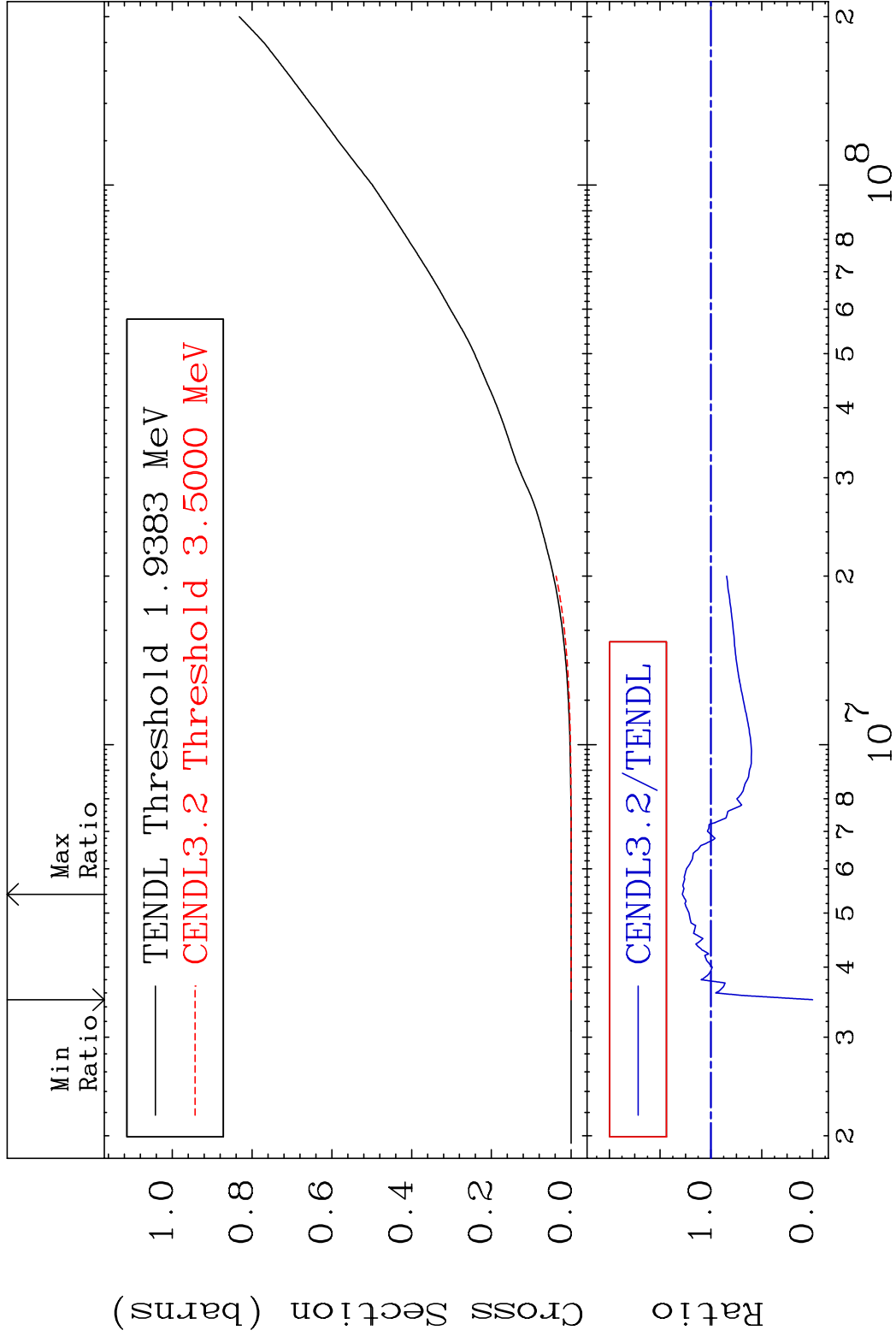
MAT 3931

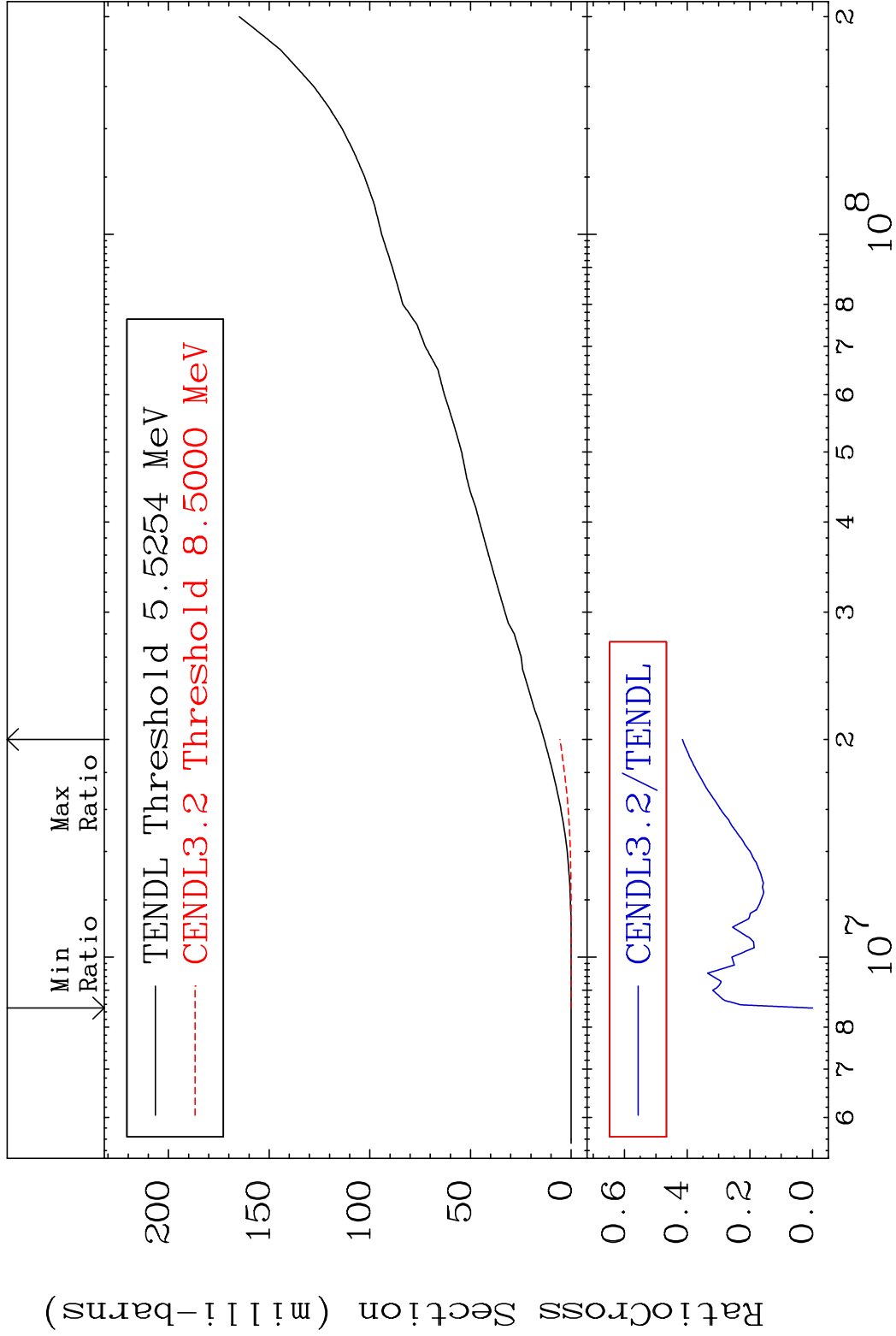
$$(n, \alpha)$$

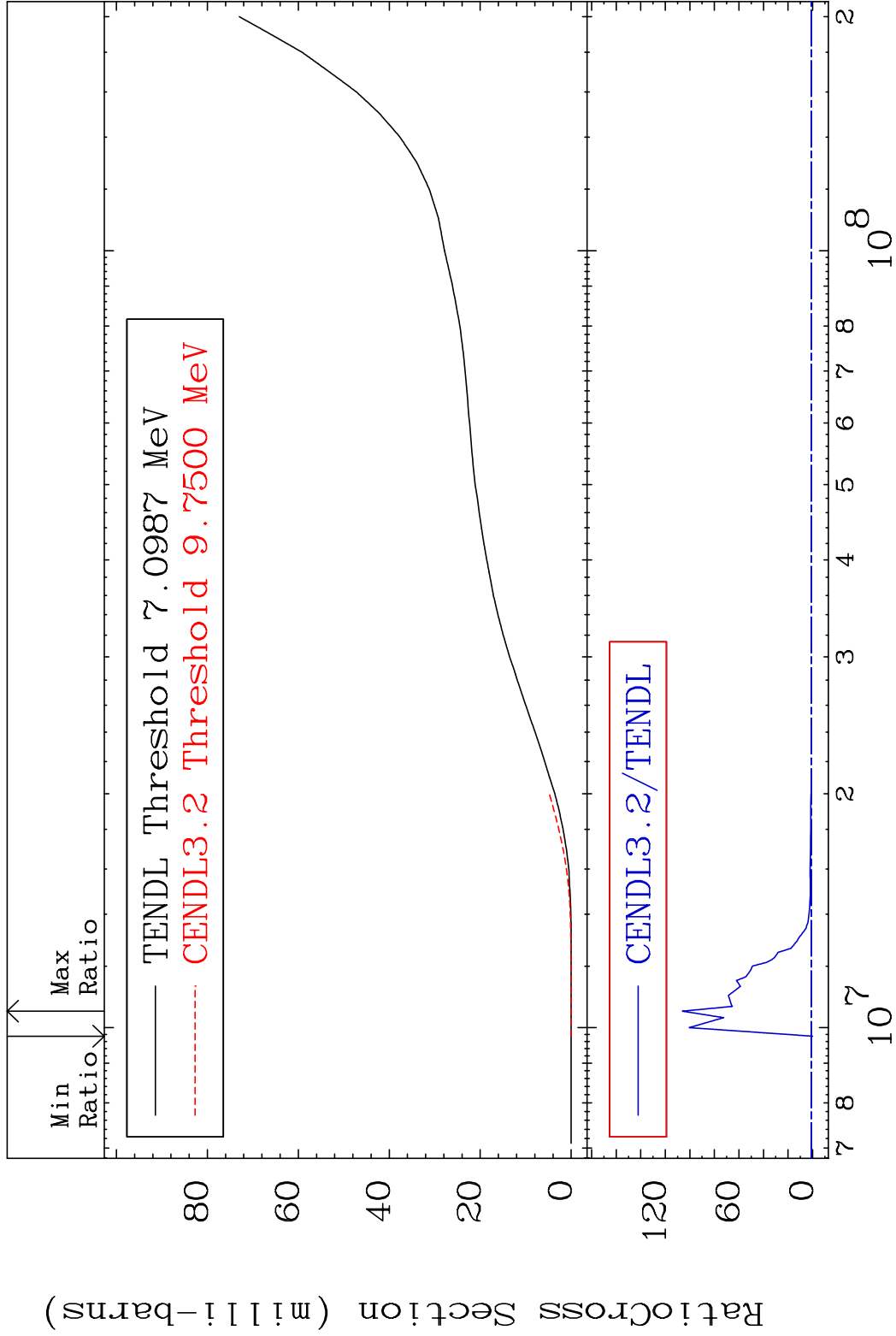
39-Y -91

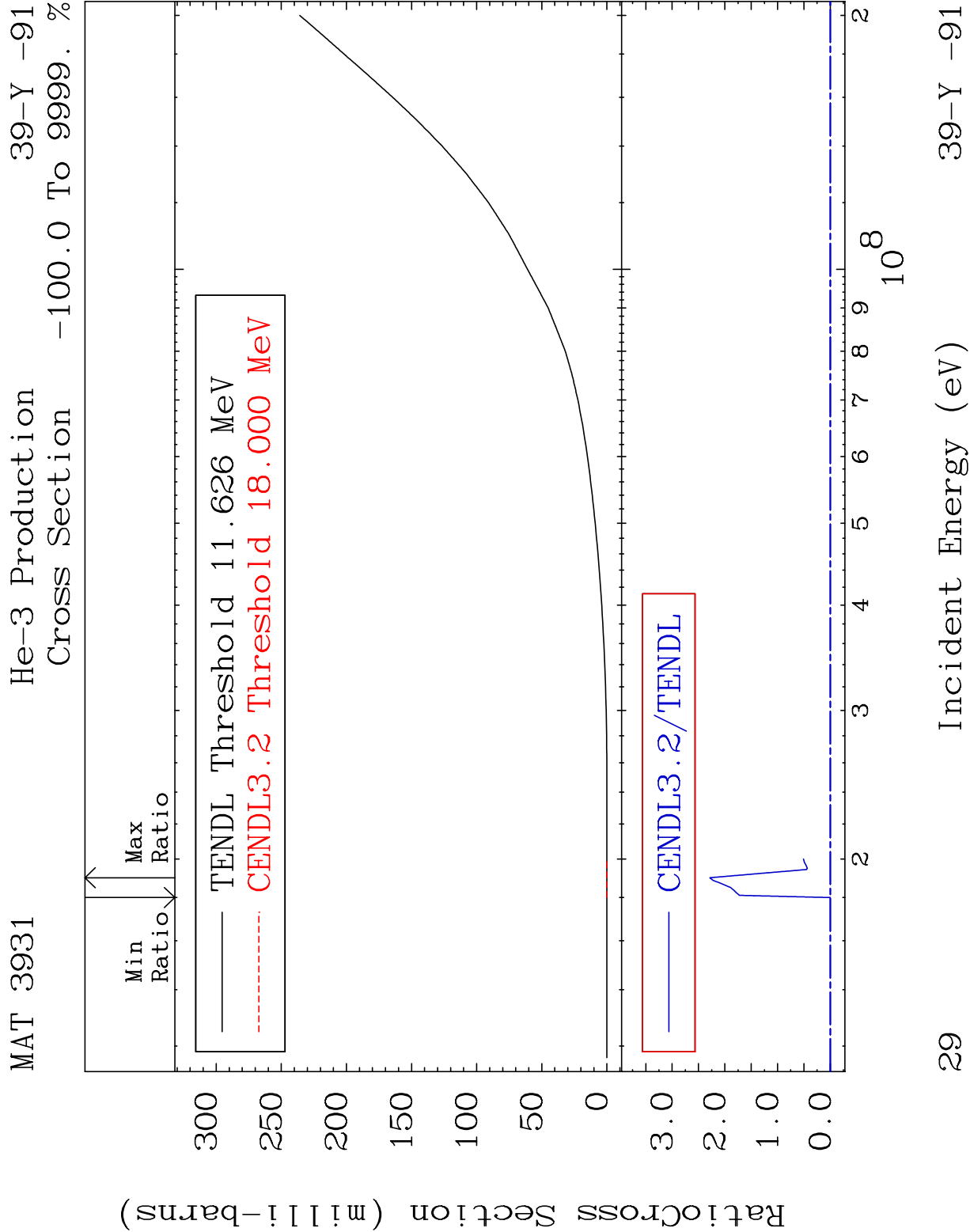
Cross Section -100.0 To 89.96 %

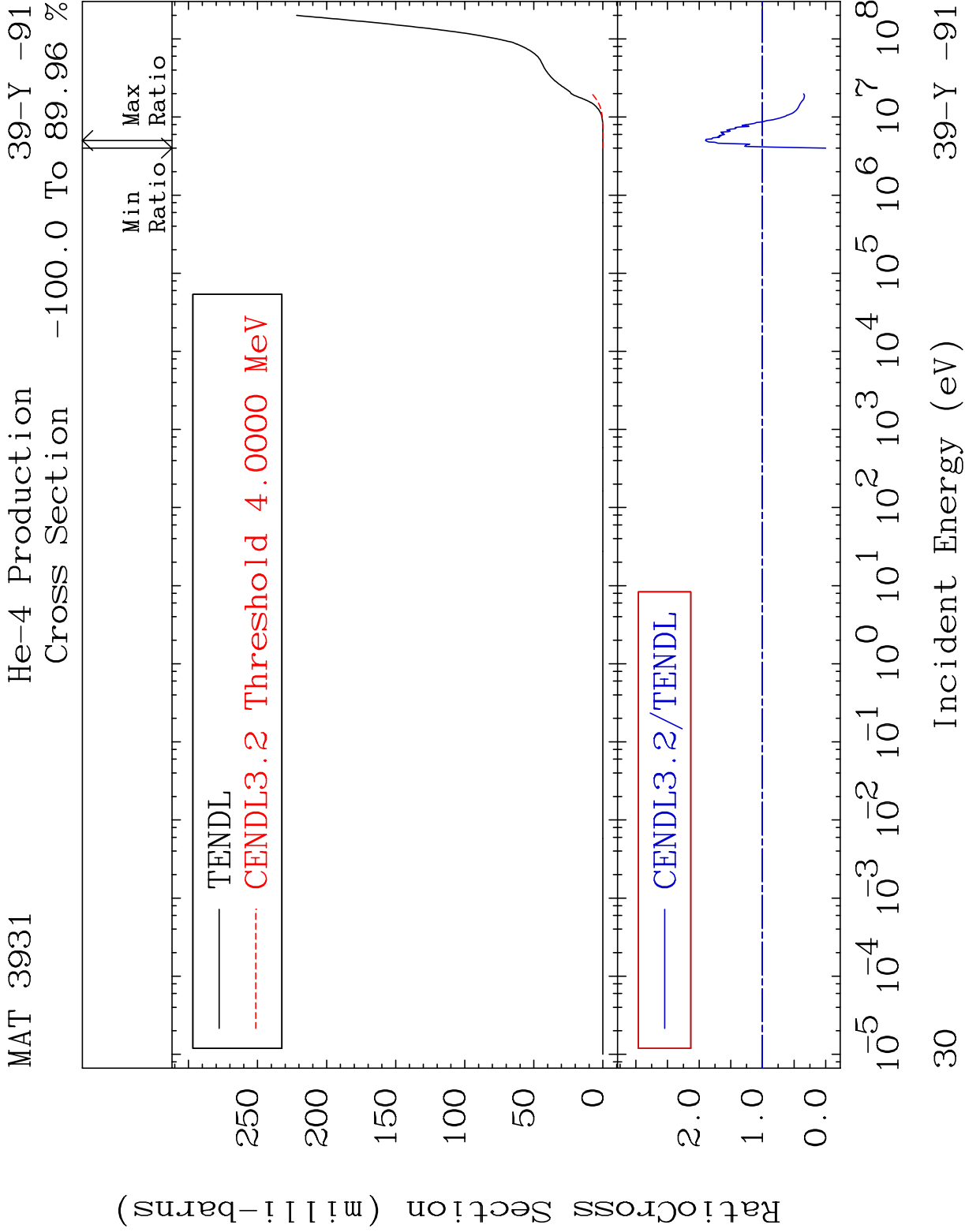


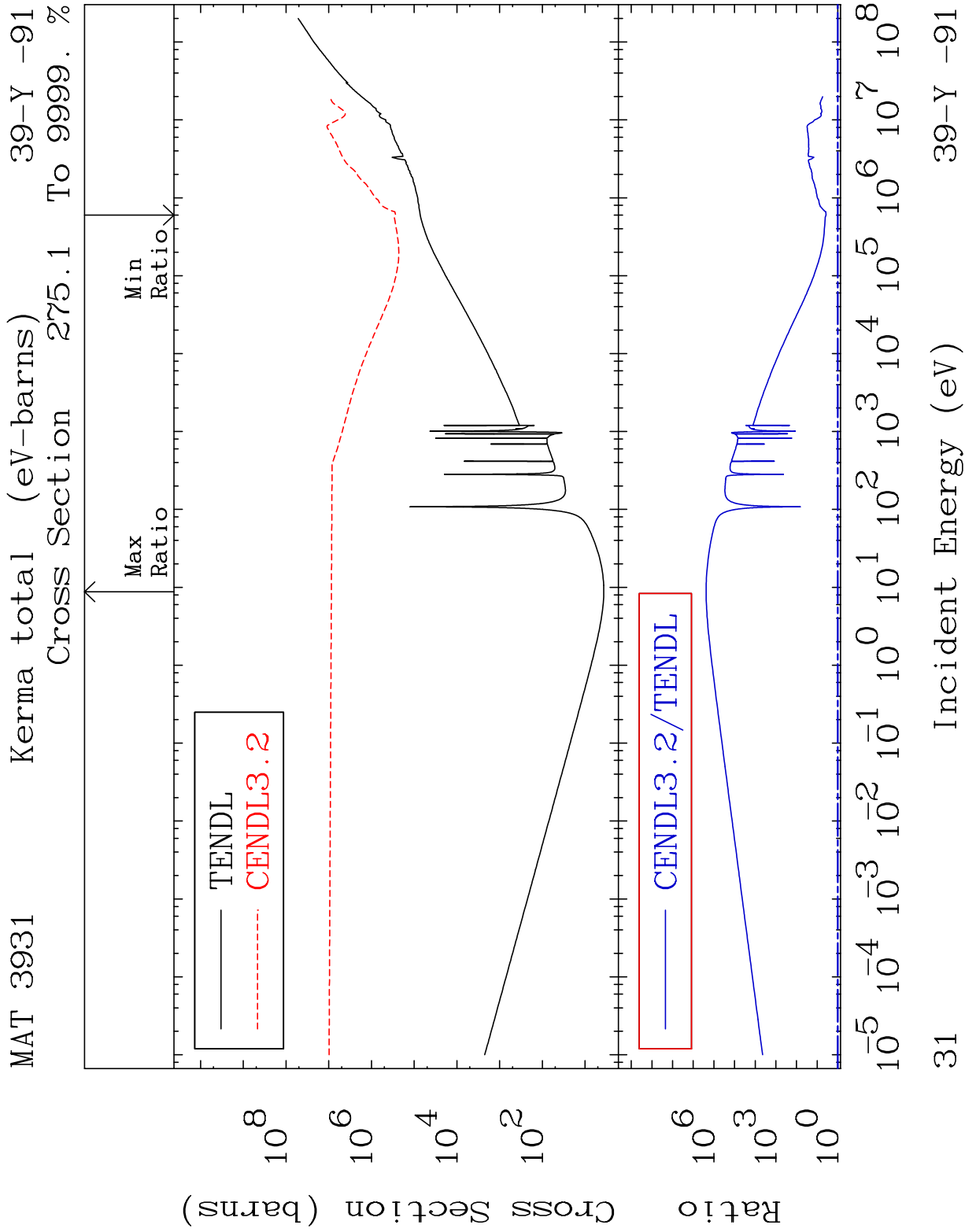










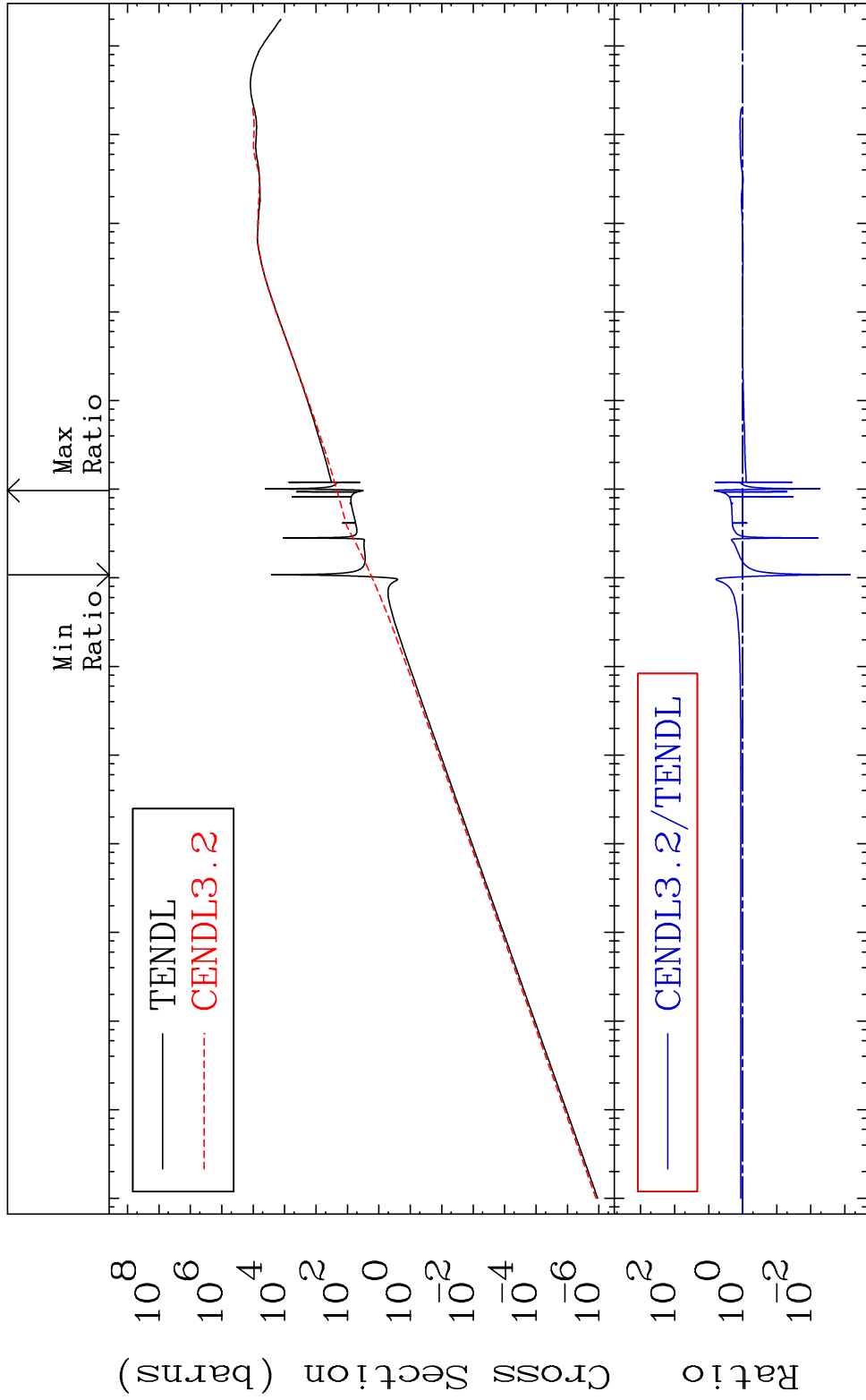


MAT 3931

Kerma elastic
Cross Section

39-Y -91

-99.93 To 598.1 %

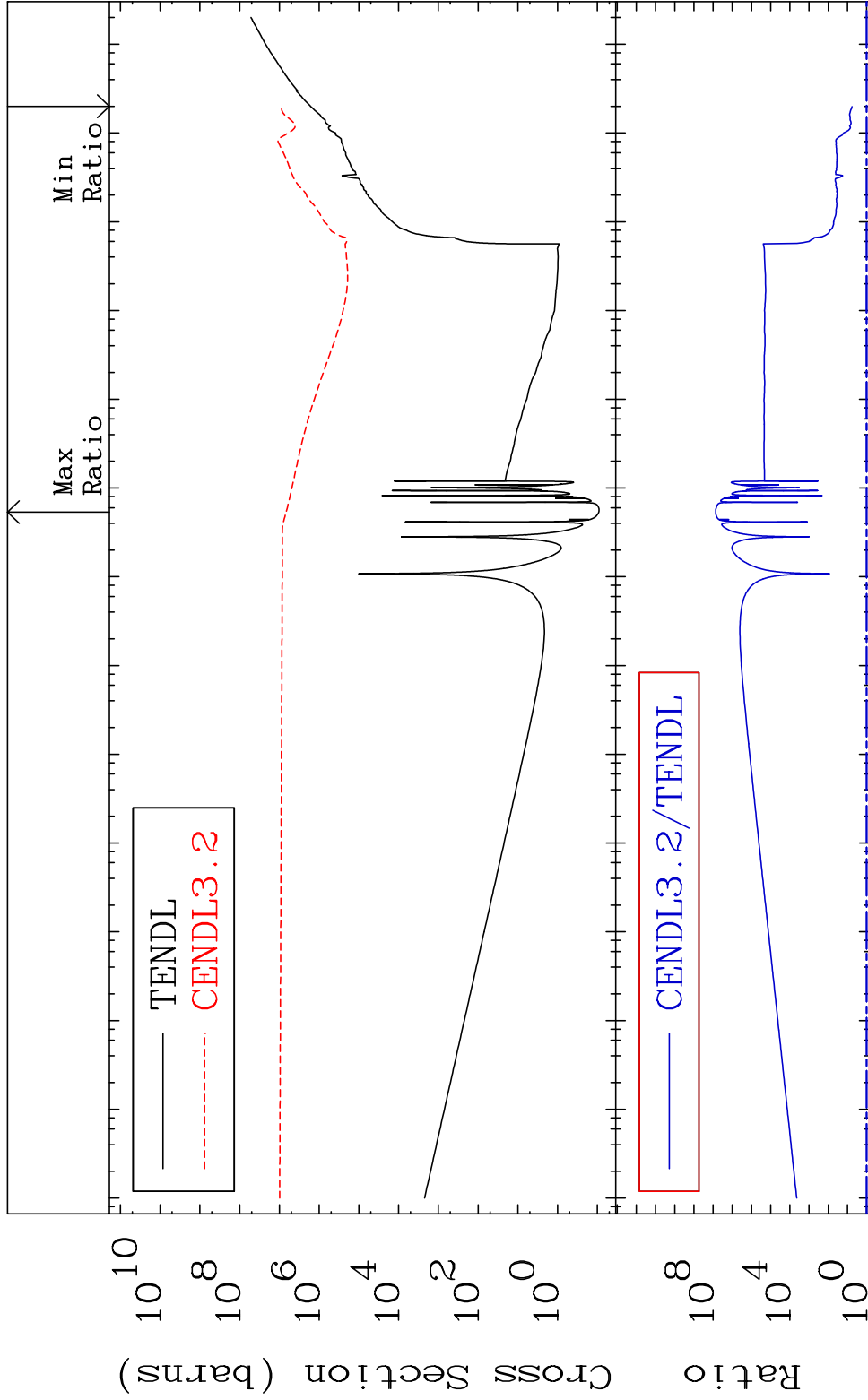


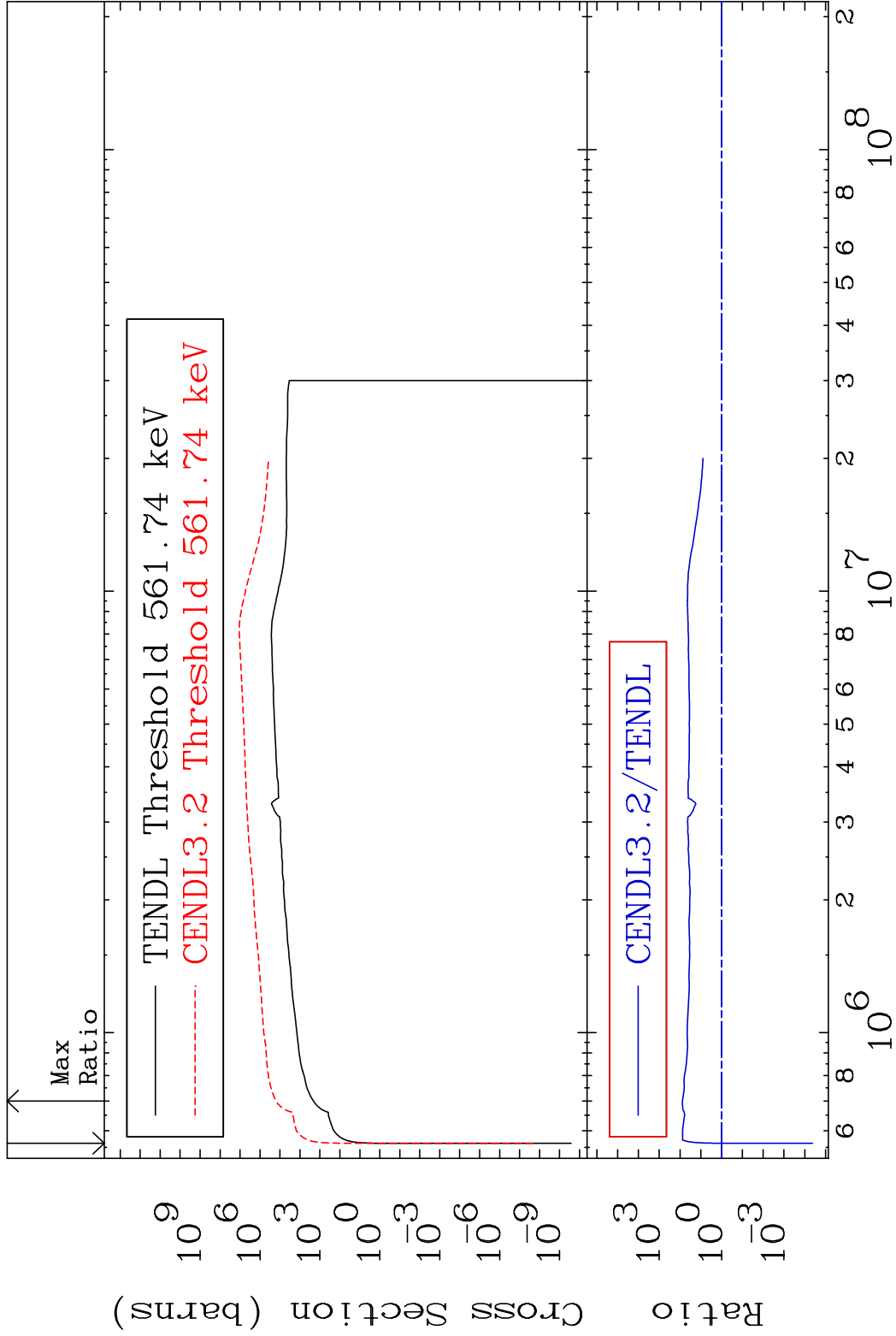
32

Incident Energy (eV)

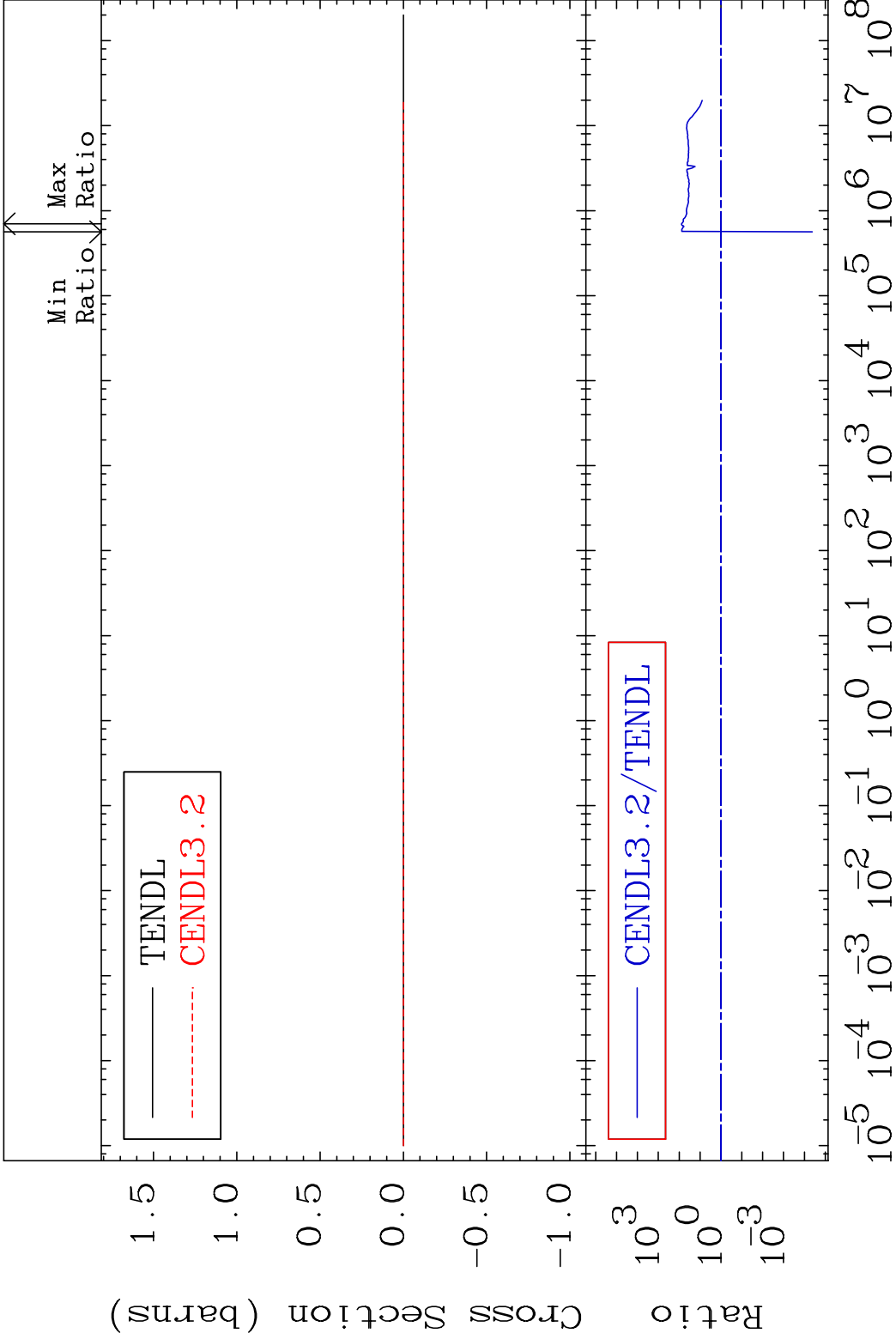
39-Y -91

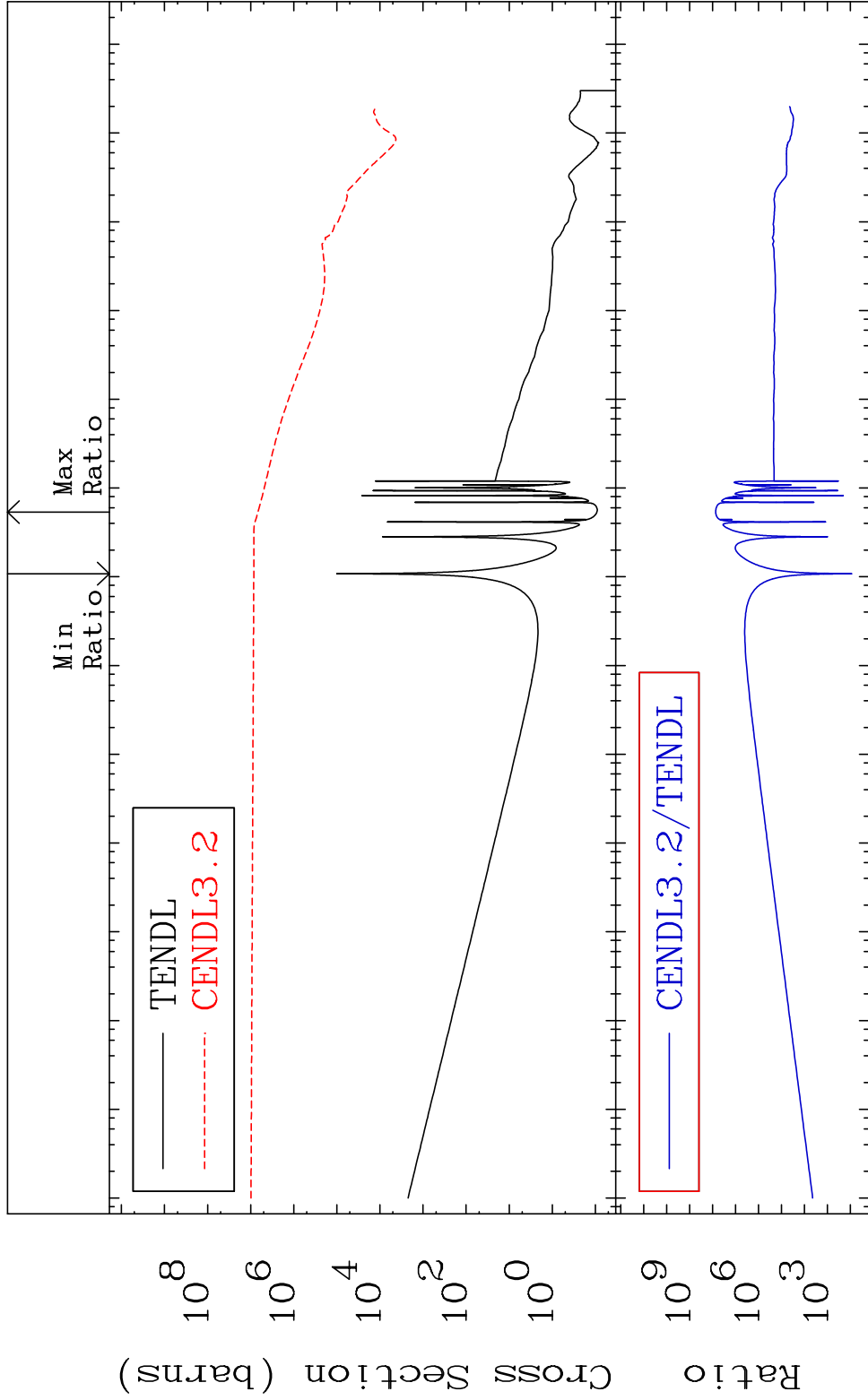
Cross Section 464.3 To 9999. %



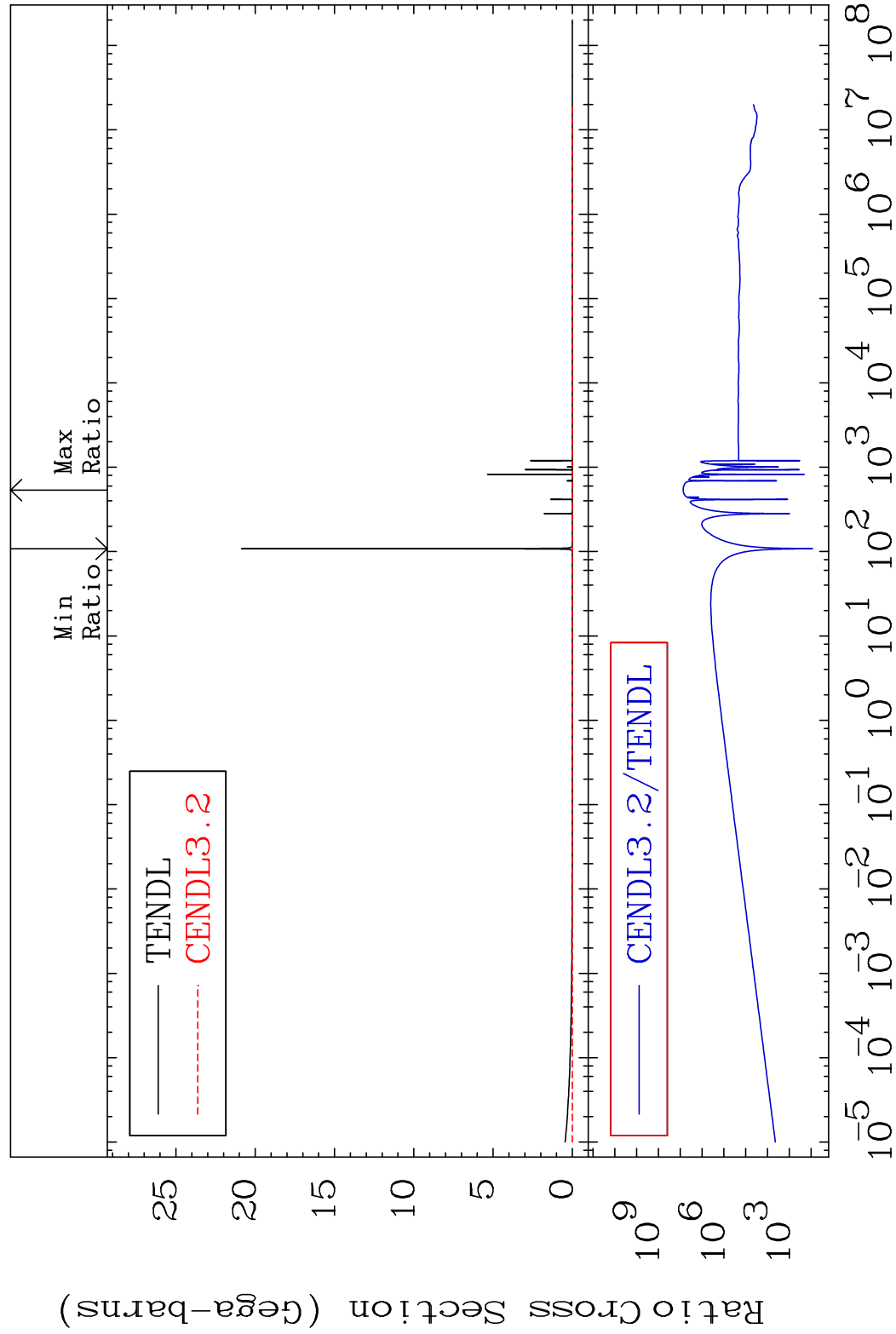


MAT 3931 Kerma fission (mt18 or mt19-20-21-38) 39-Y -91
Cross Section -100.0 To 7604. %



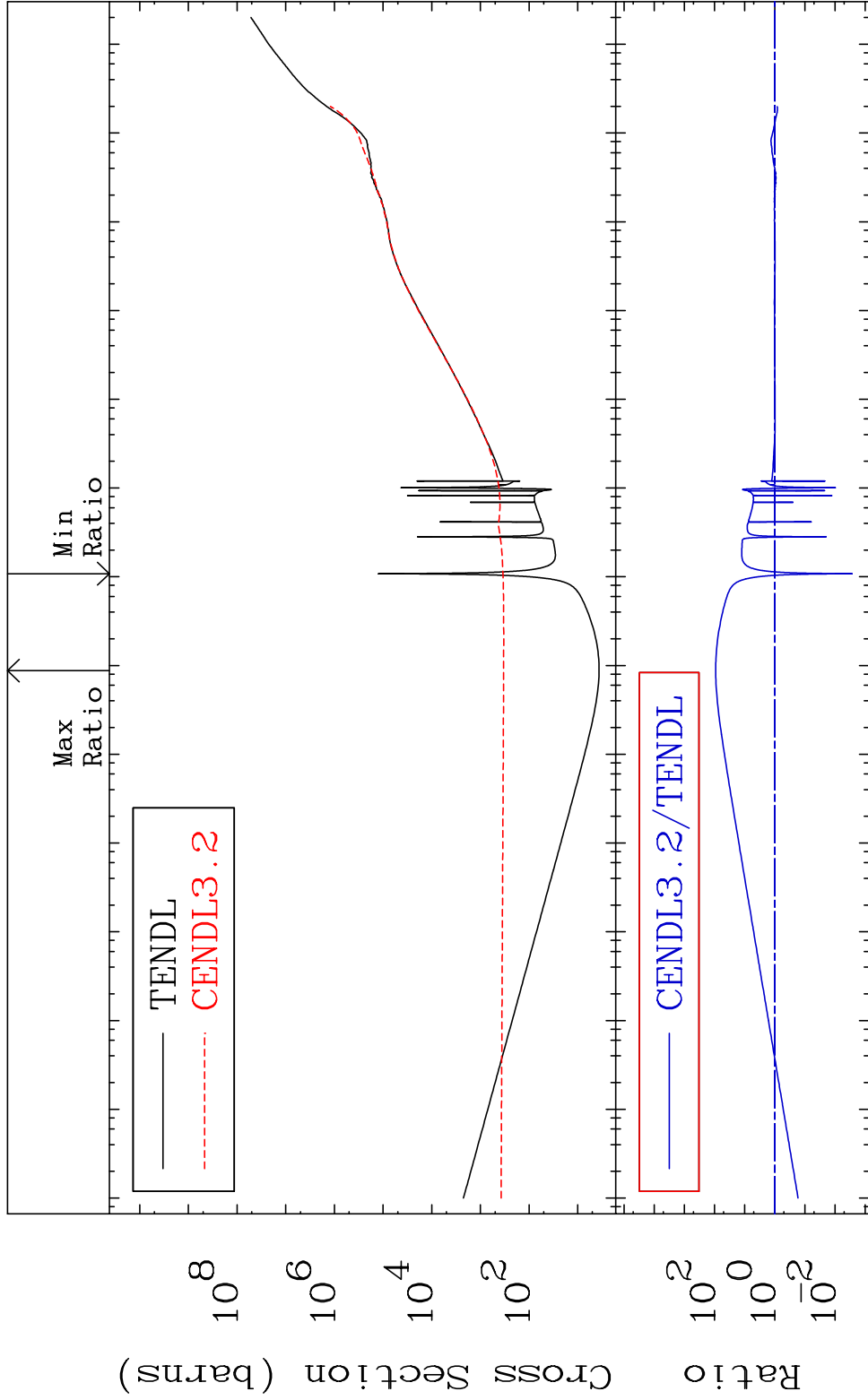


MAT 3931 Total photon (eV-barns) 39-Y -91
 Cross Section 8291. To 9999. %



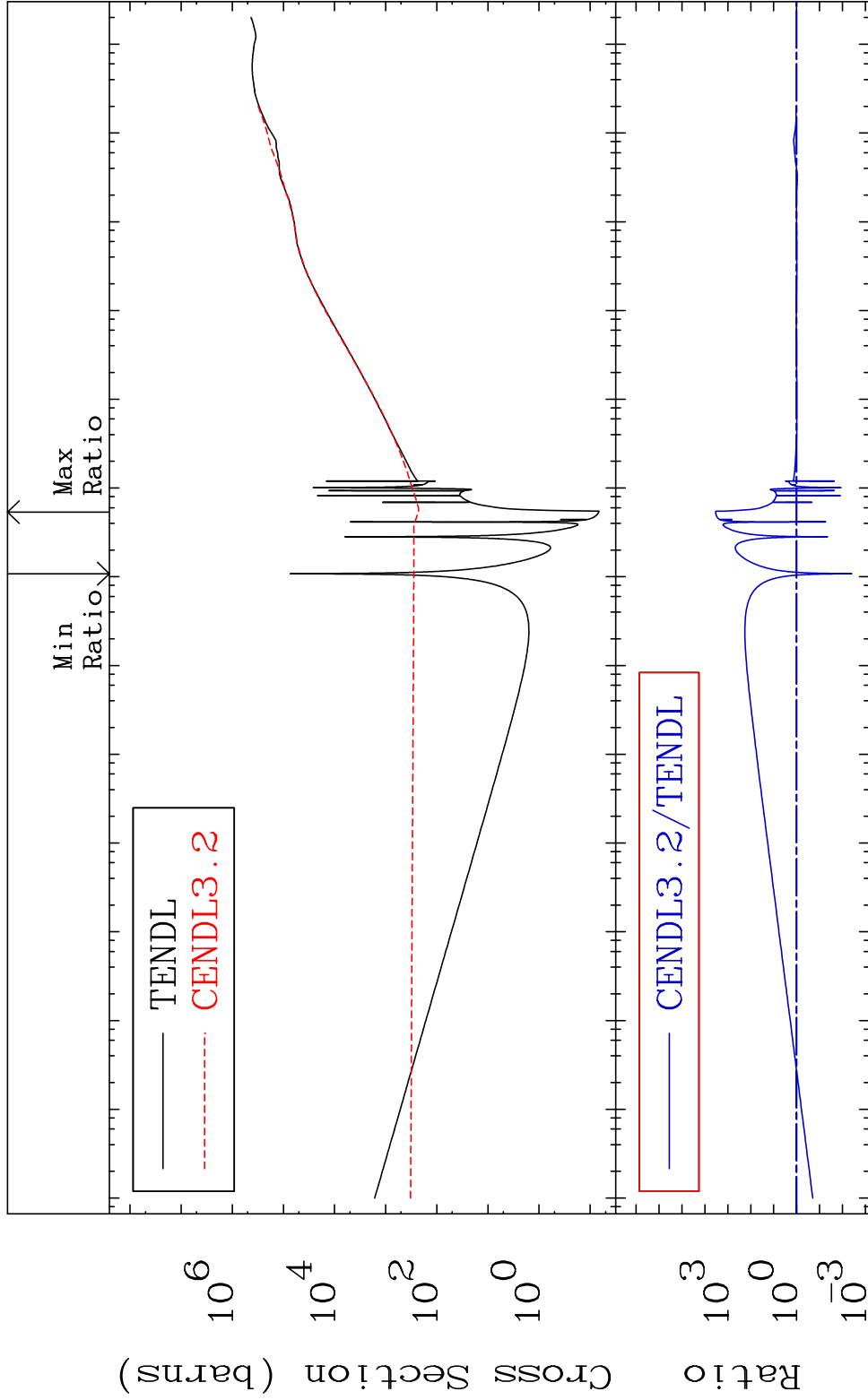
37 Incident Energy (eV) 39-Y -91

MAT 3931 Total kinematic kerma (high limit) 39-Y -91
Cross Section -99.73 To 9040. %



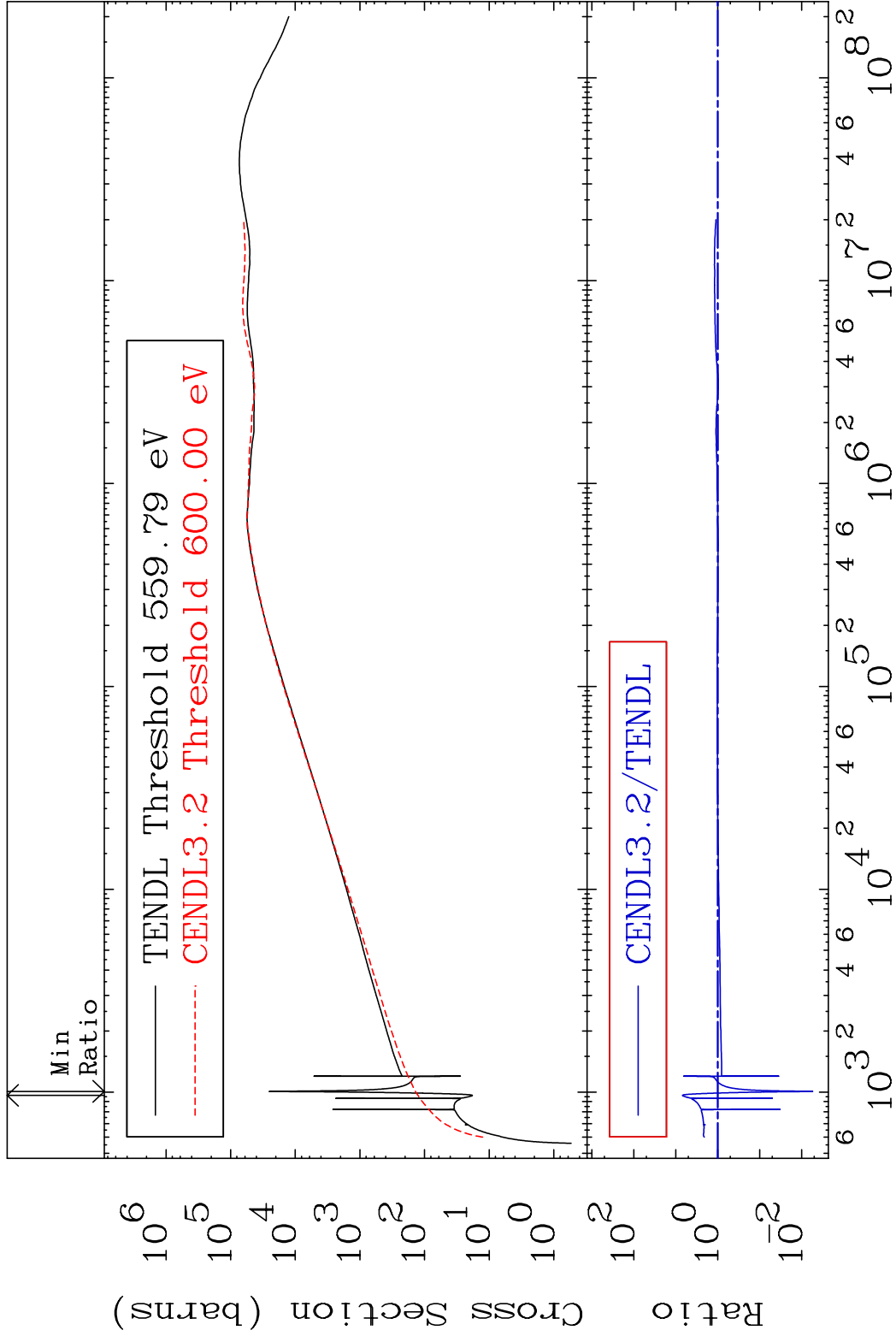
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8

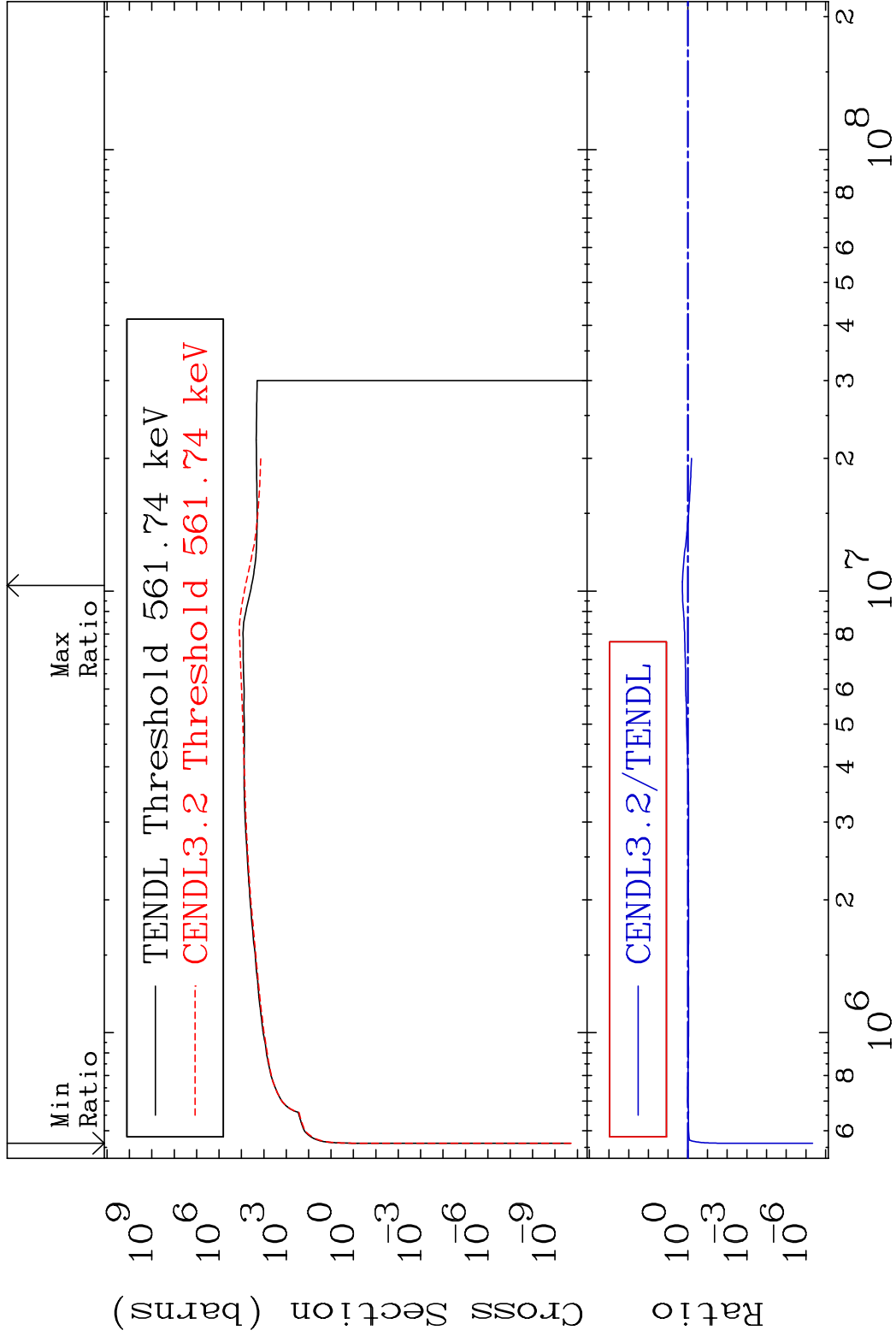
MAT 3931 Dpa total (eV-barns) 39-Y -91
Cross Section -99.62 To 9999. %

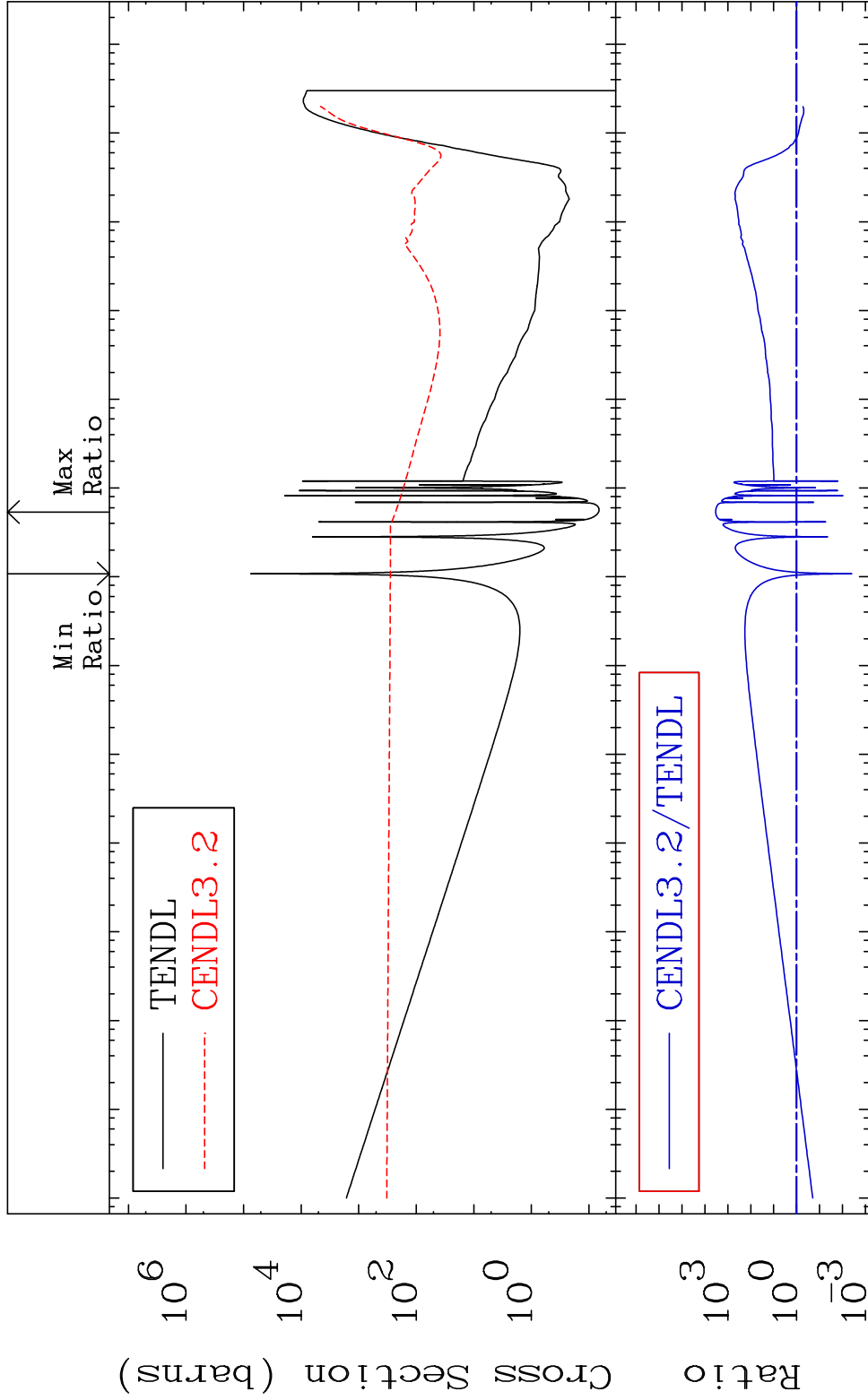


39 Incident Energy (eV) 39-Y -91

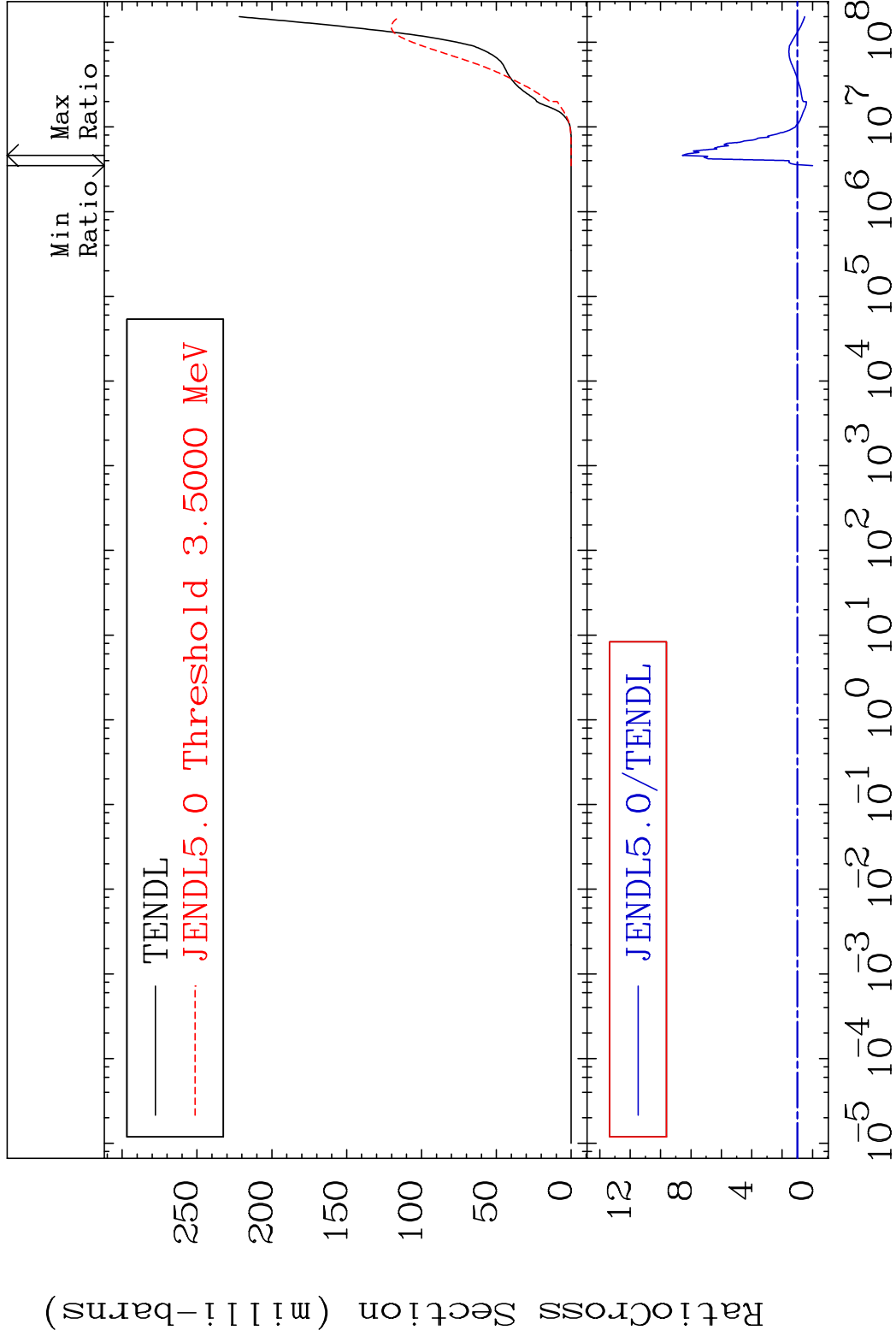
MAT 3931 Dpa elastic (mt2) 39-Y -91
Cross Section -99.45 To 595.6 %

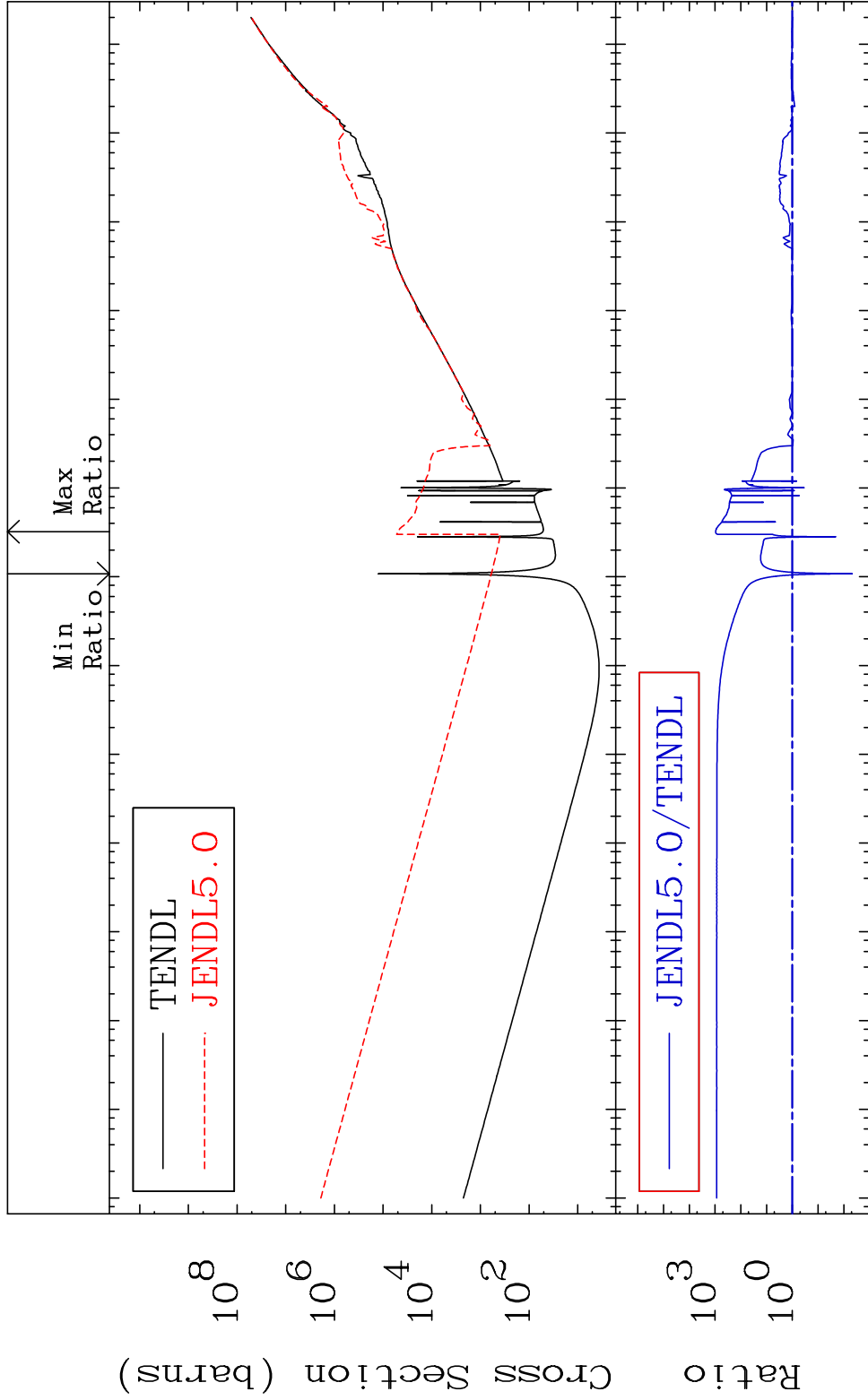


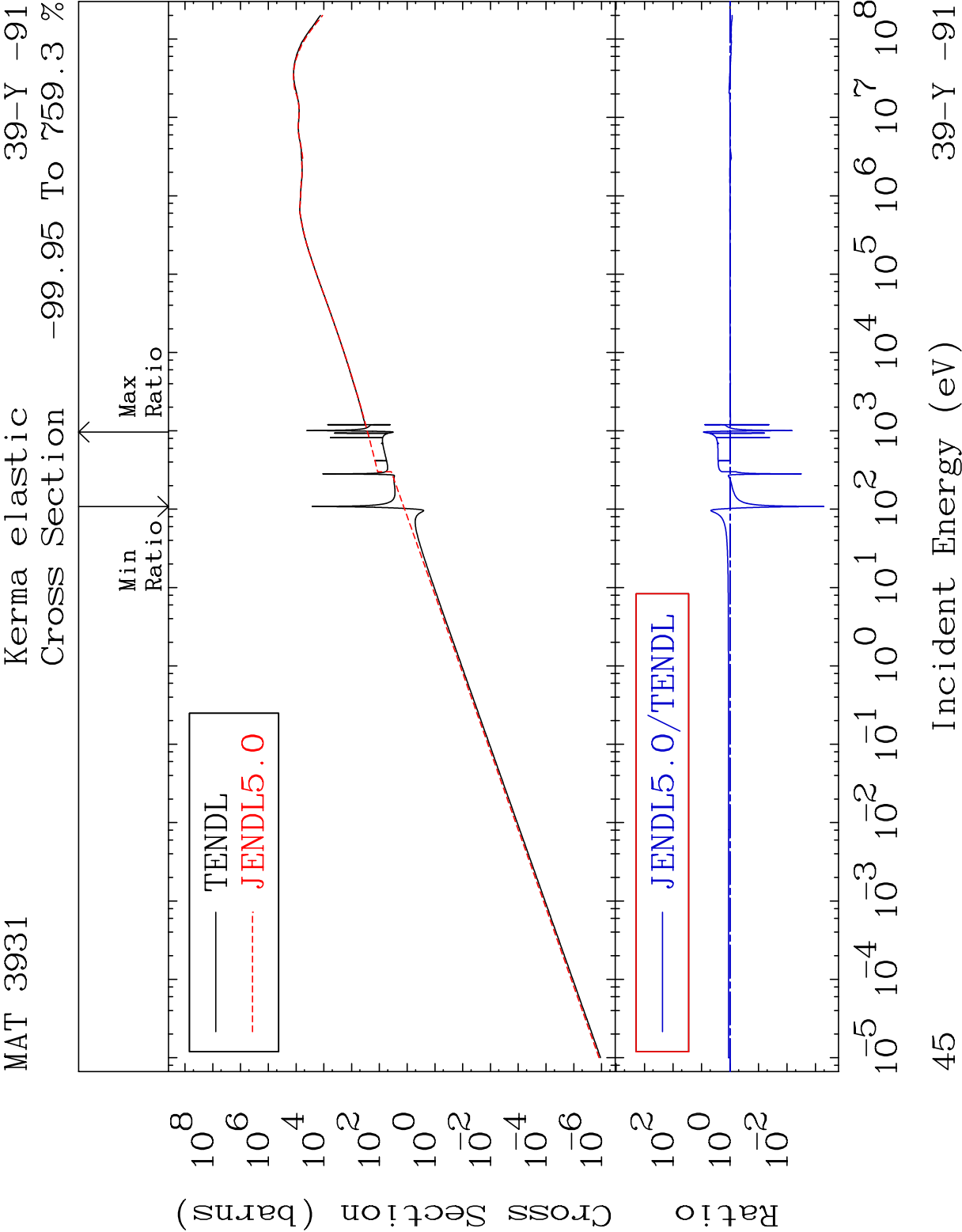


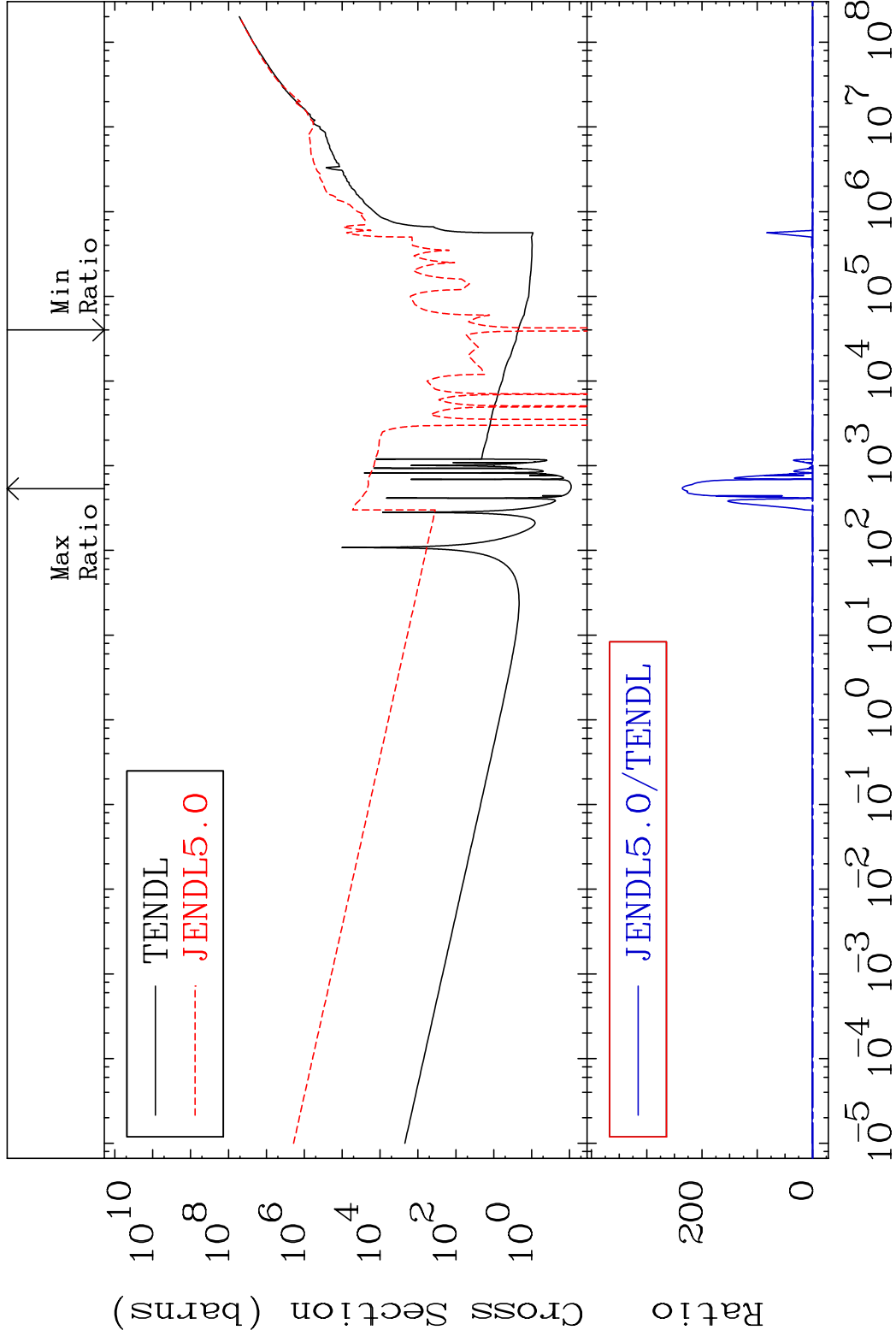


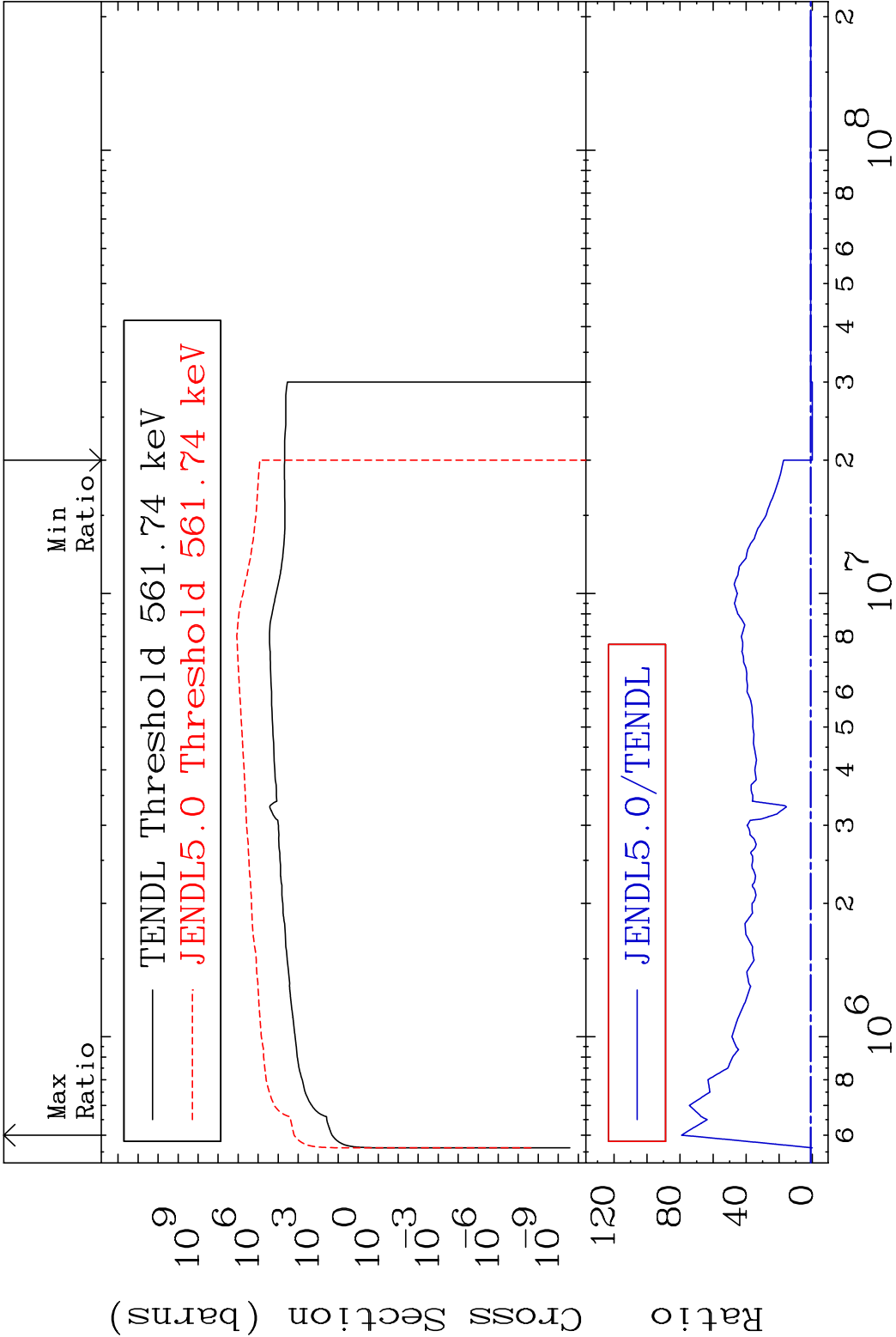
MAT 3931 He-4 Production 39-Y -91
Cross Section -100.0 To 756.7 %



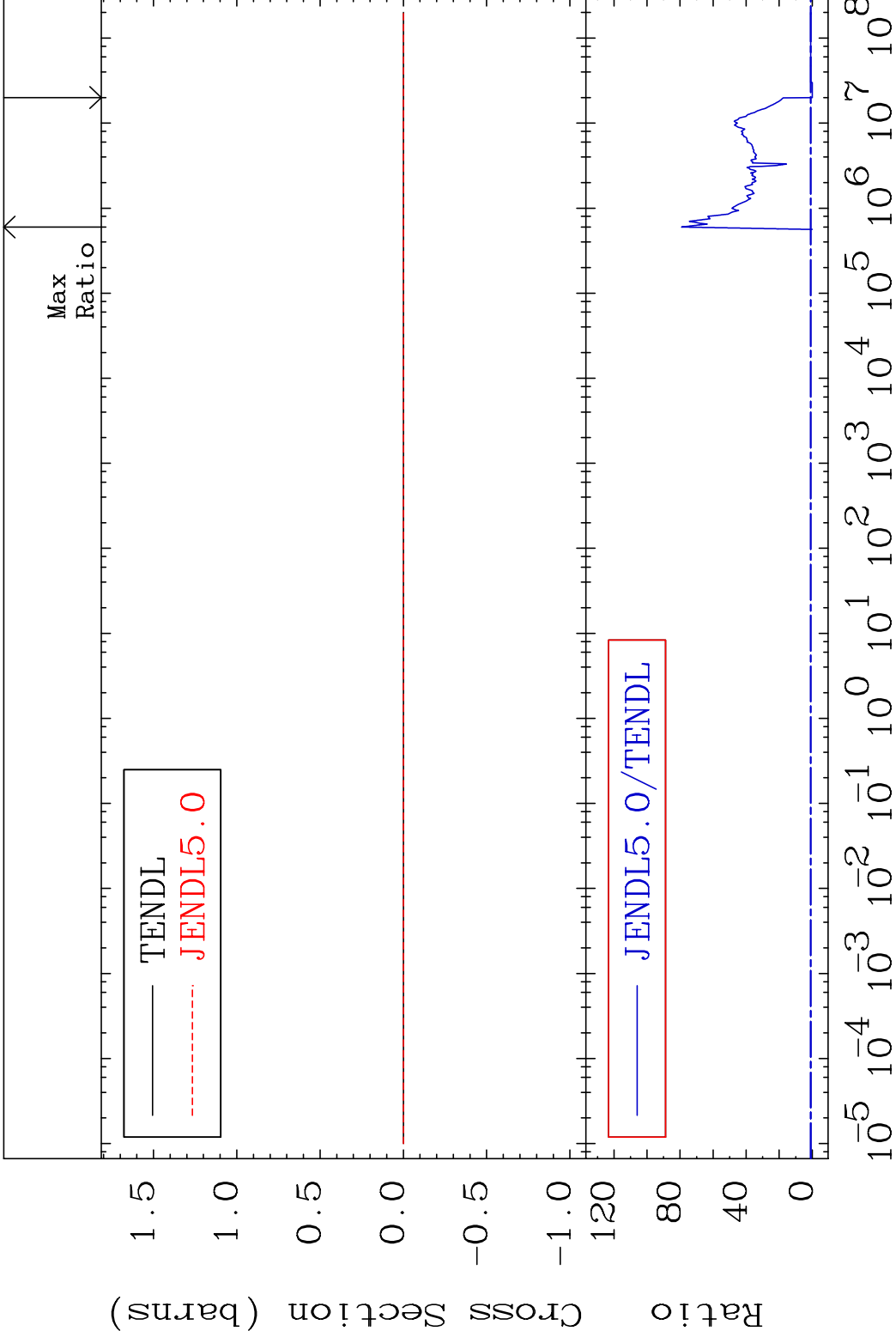


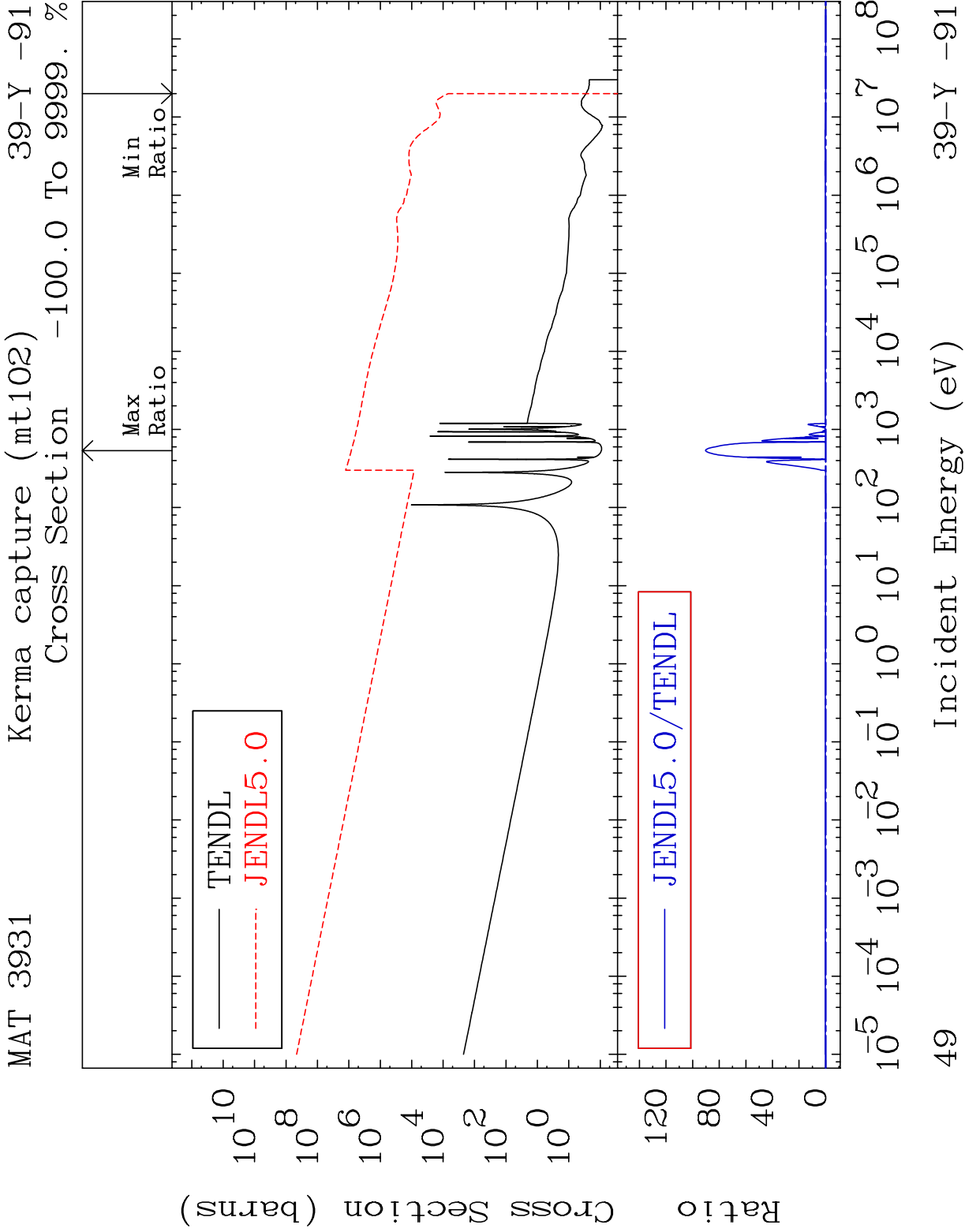


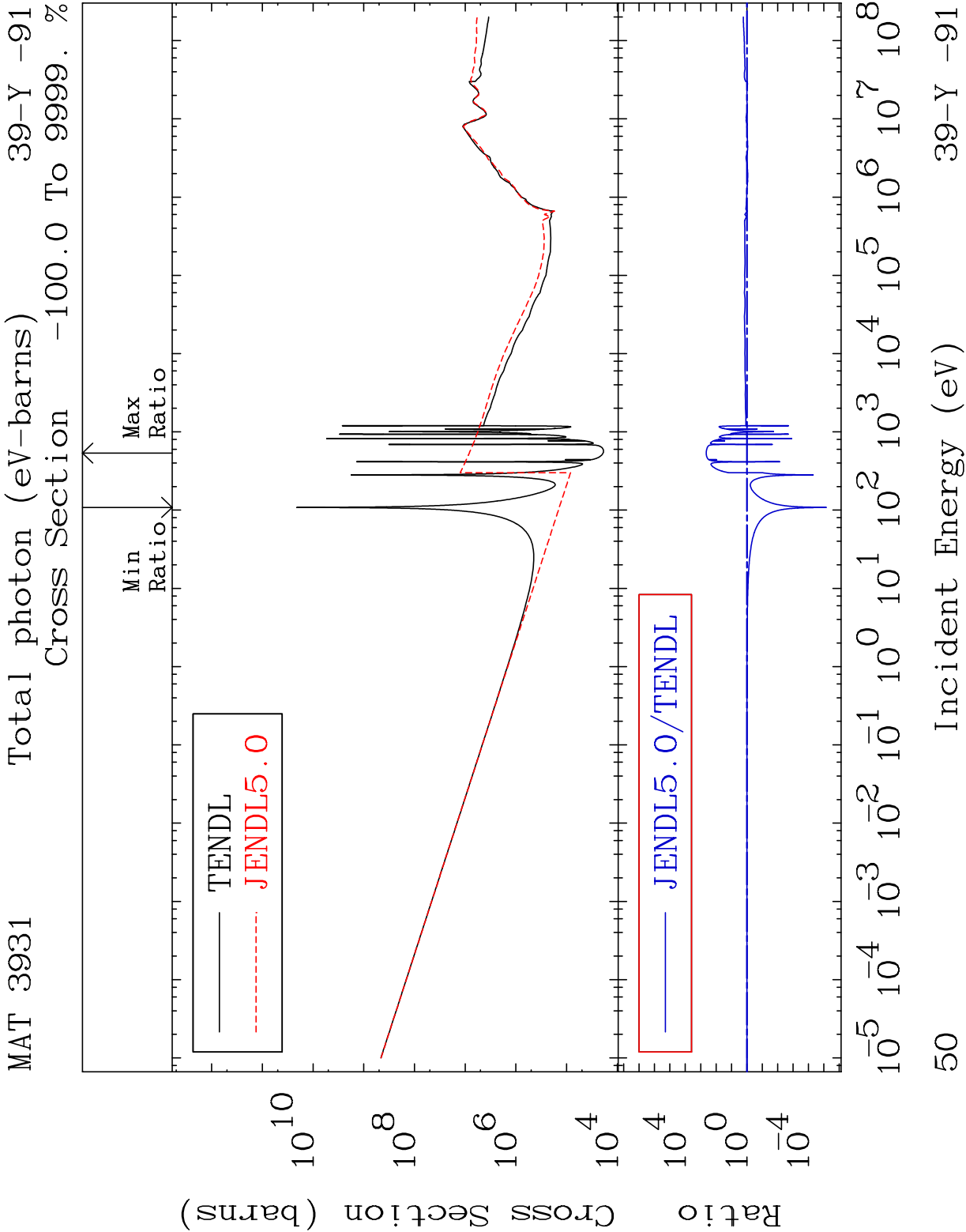


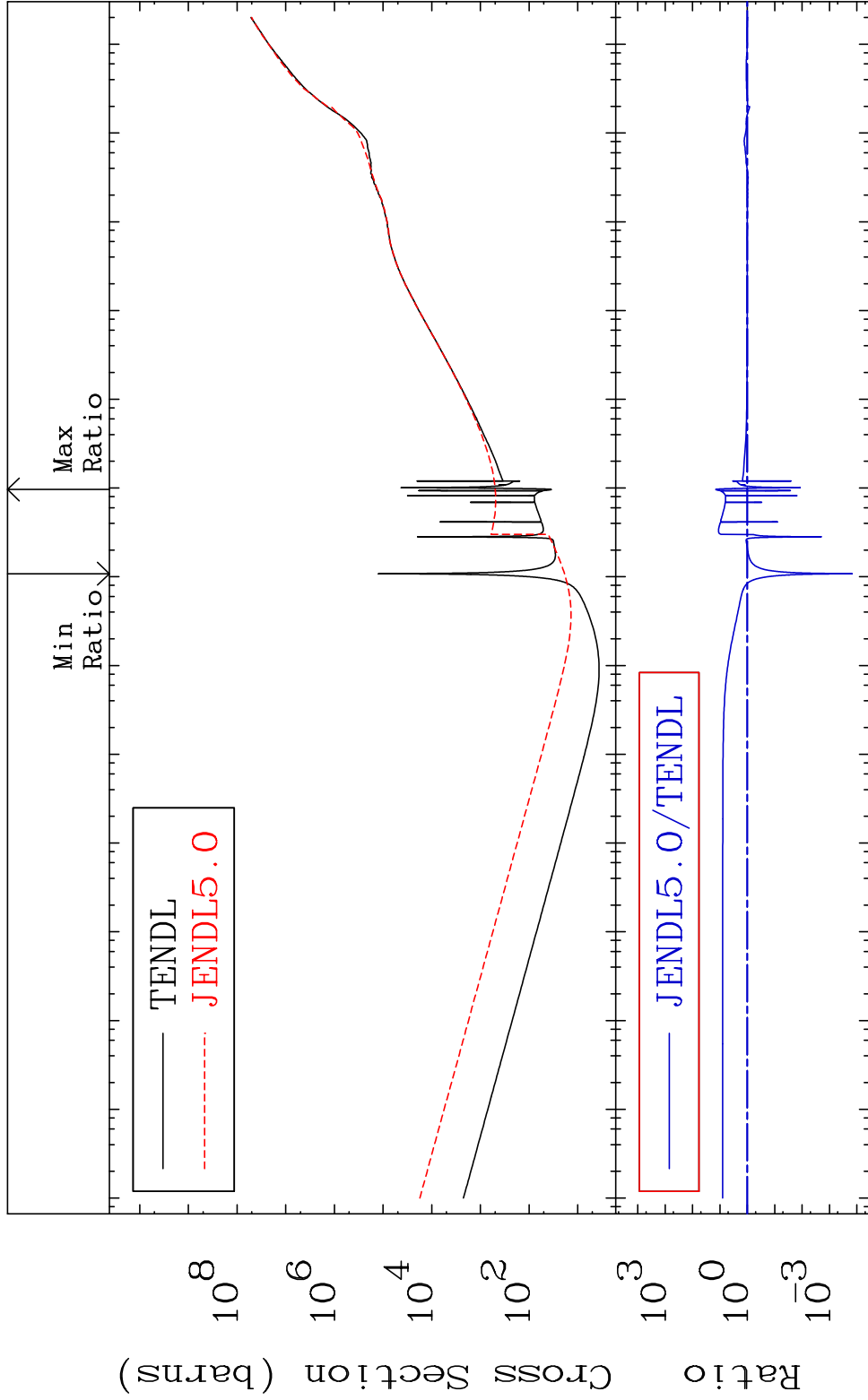


MAT 3931 Kerma fission (mt18 or mt19-20-21-38) 39-Y -91
Cross Section -100.0 To 7811. %

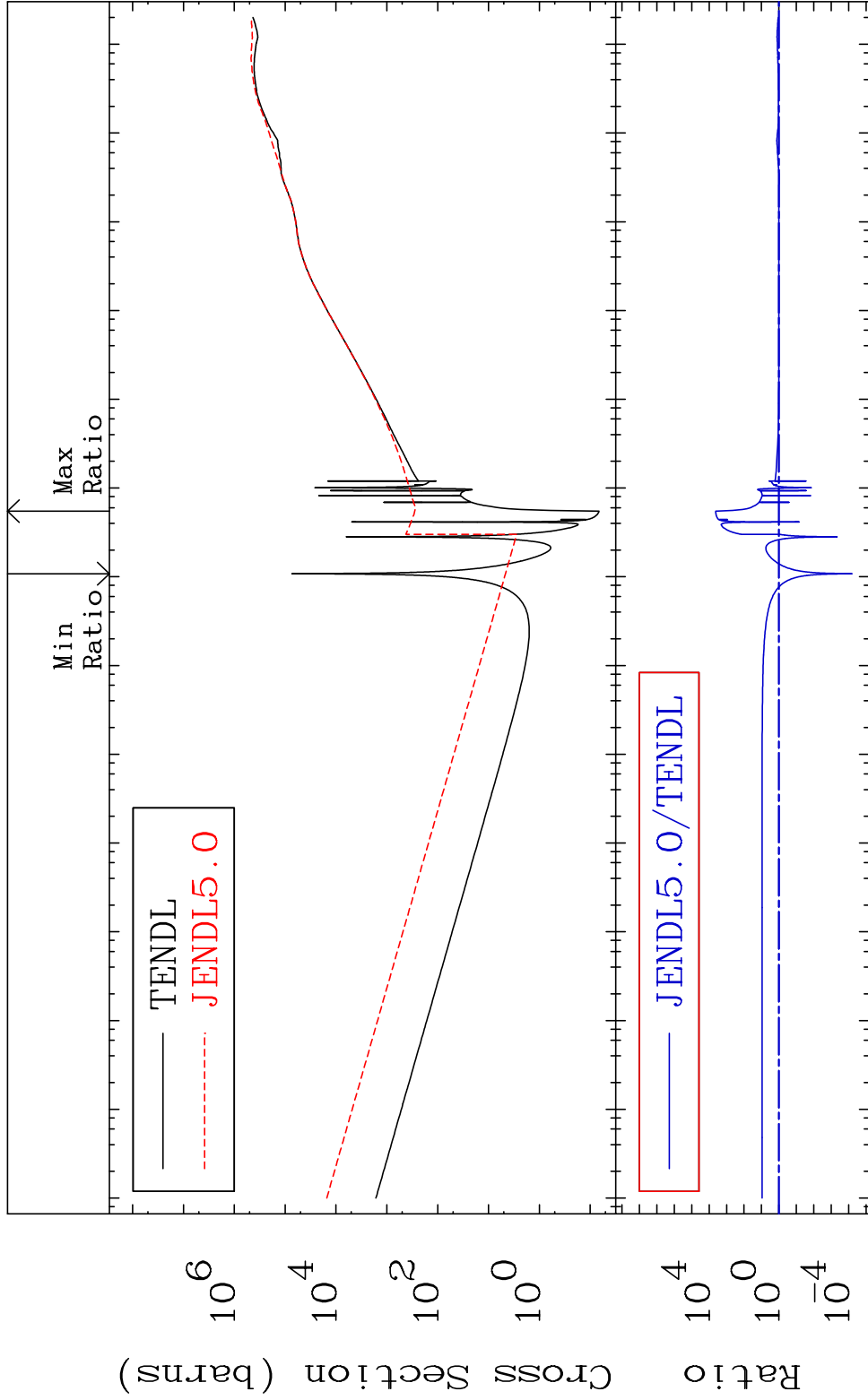




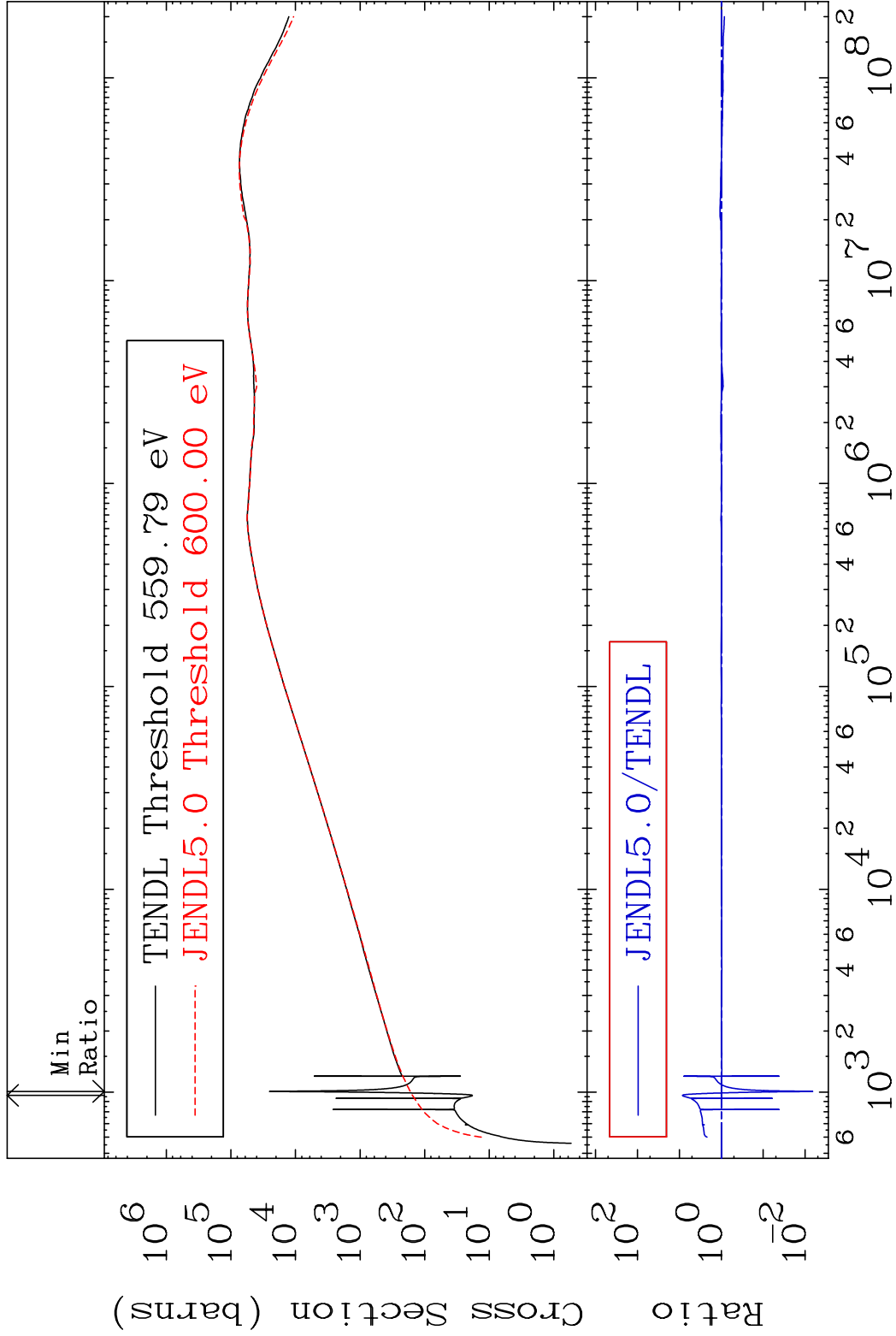


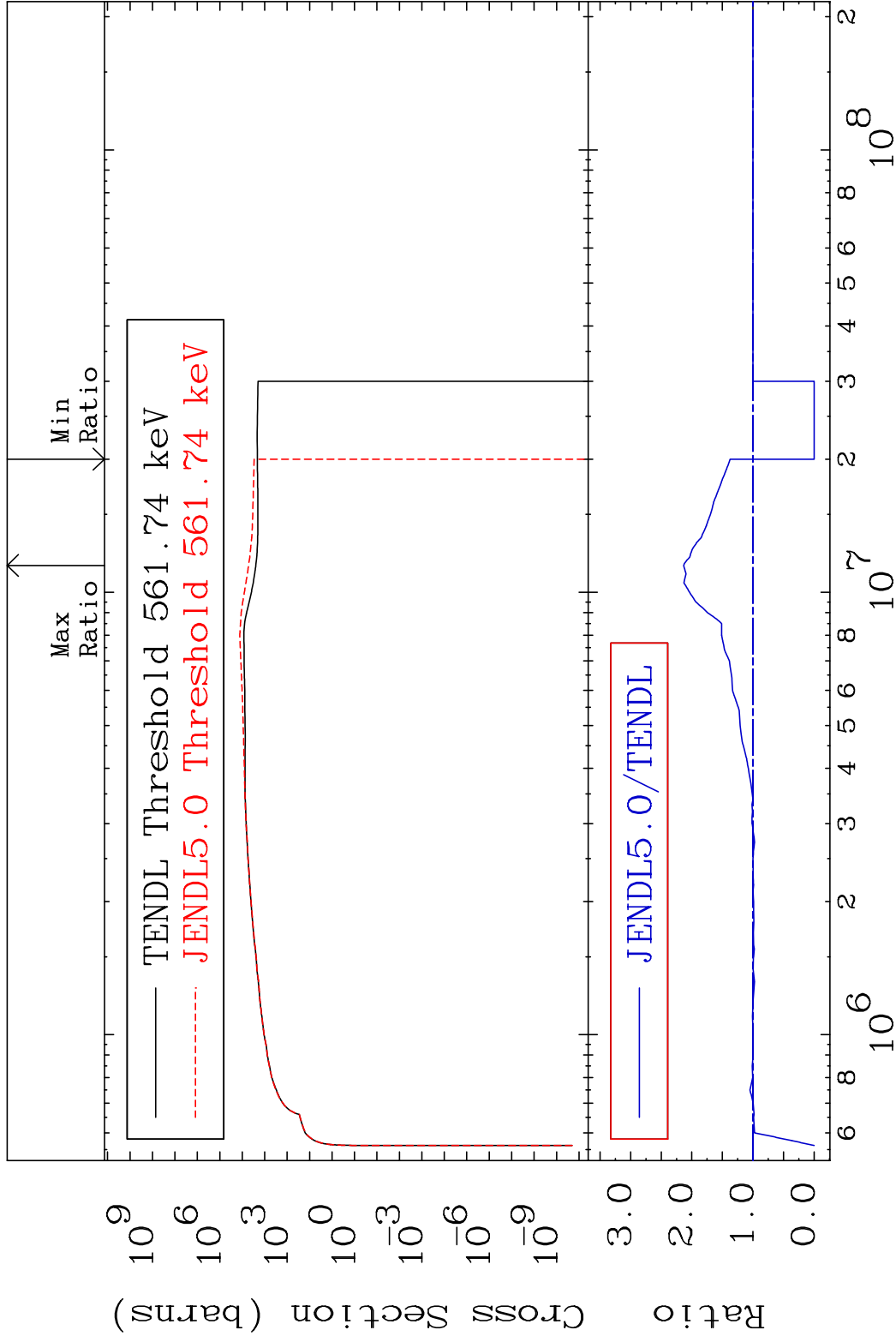


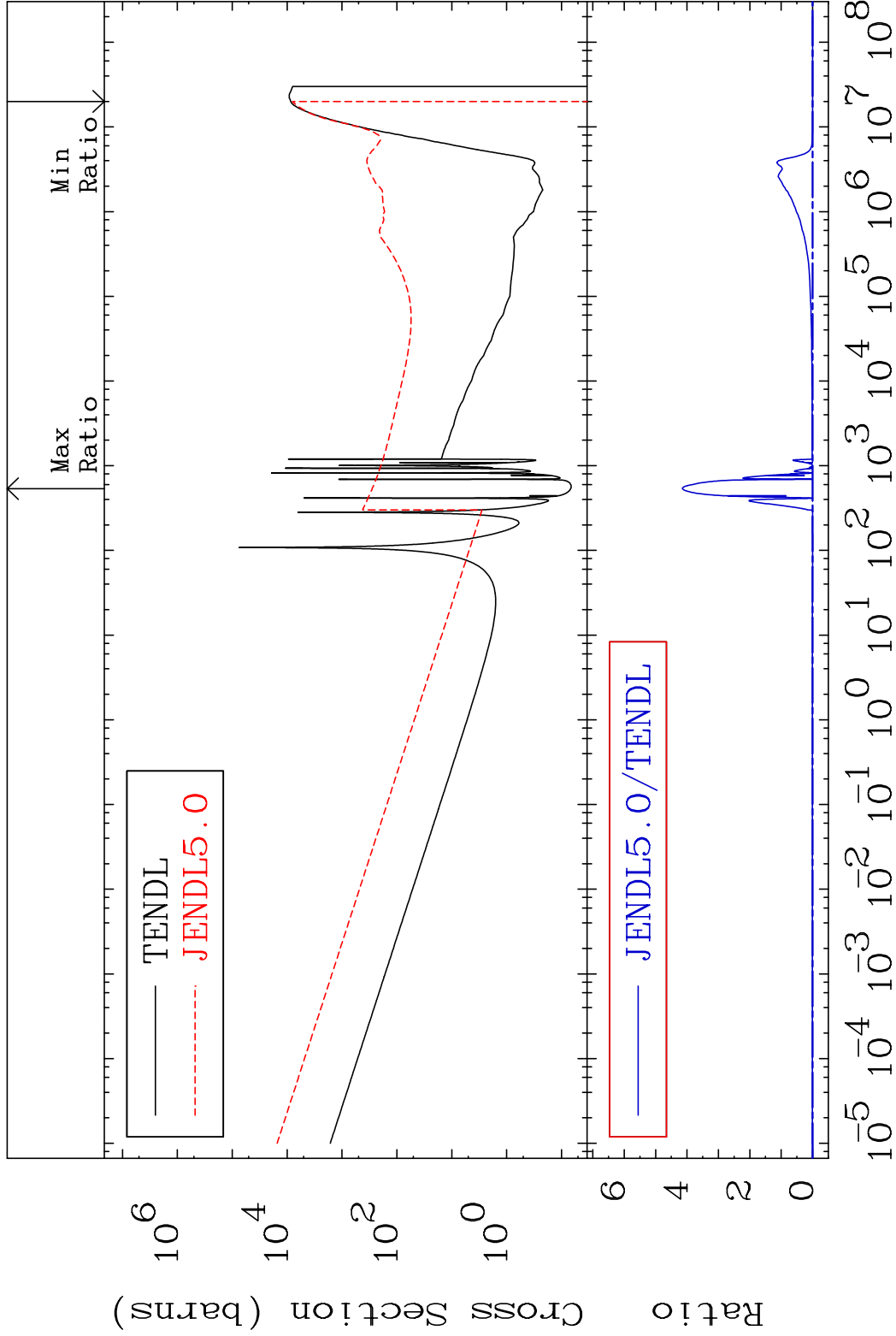
Cross Section -99.99 To 9999. %



MAT 3931 Dpa elastic (mt2) 39-Y -91
Cross Section -99.33 To 747.0 %





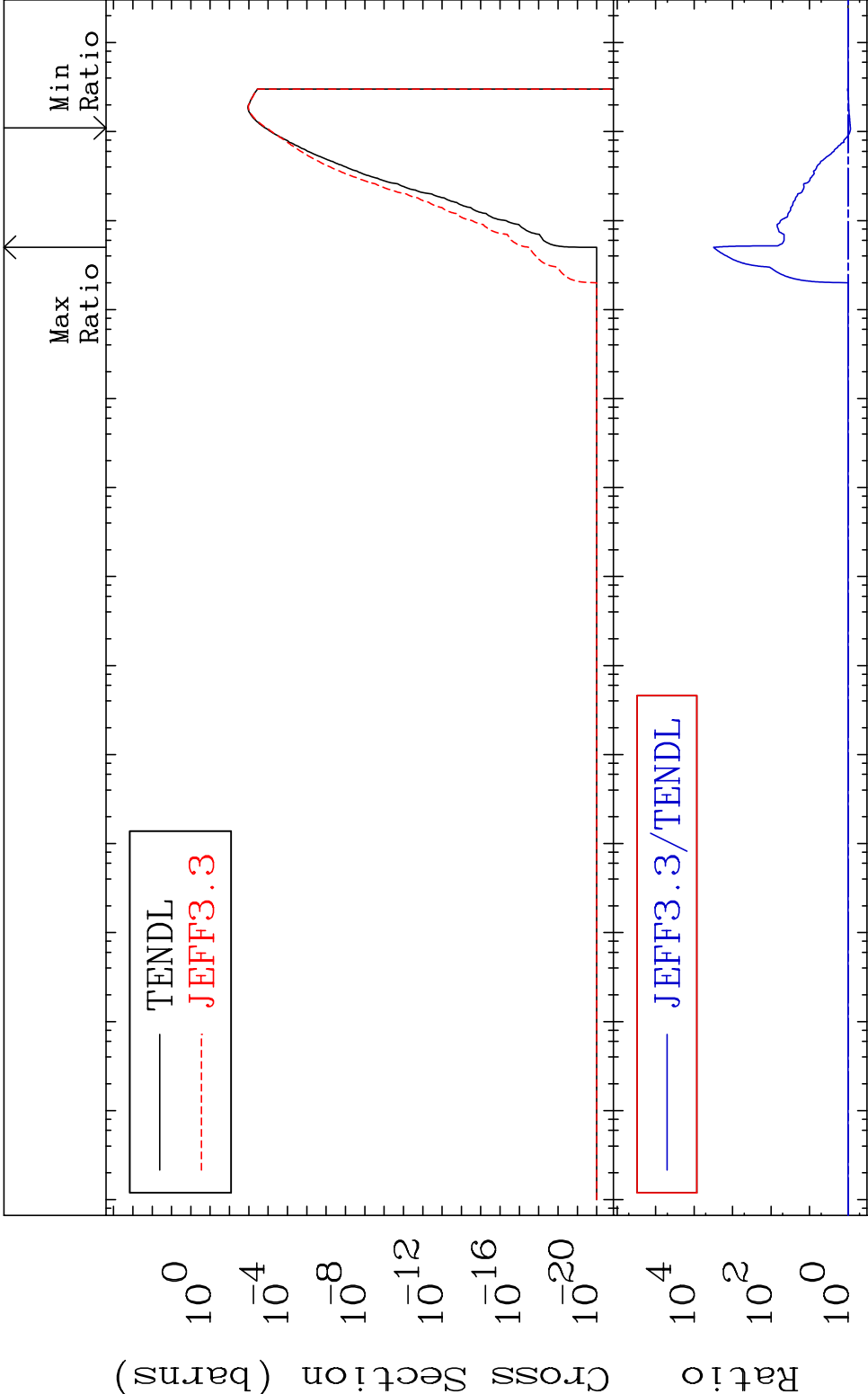


MAT 3931

(n, α)

39-Y -91

Cross Section -13.21 To 9999. %

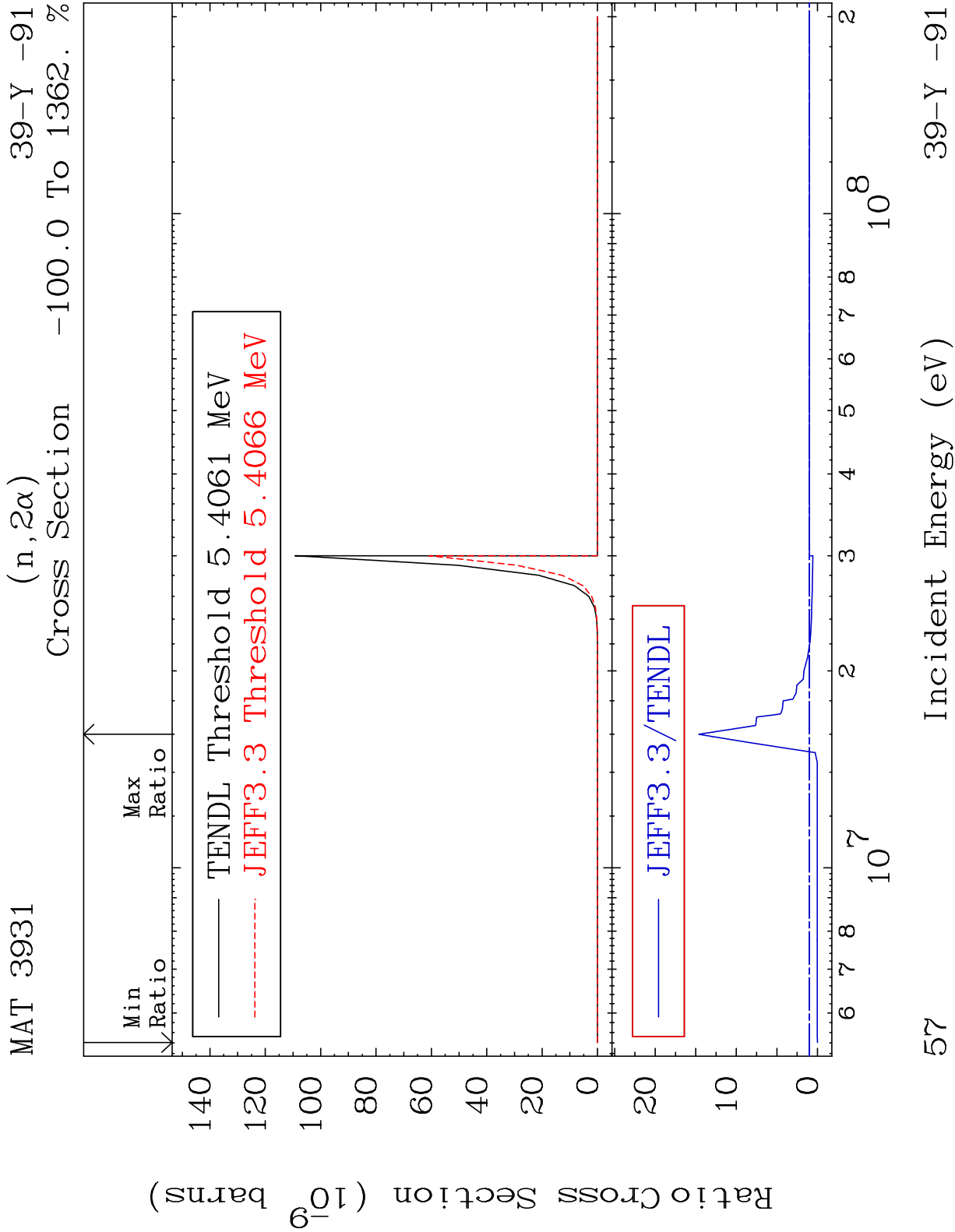


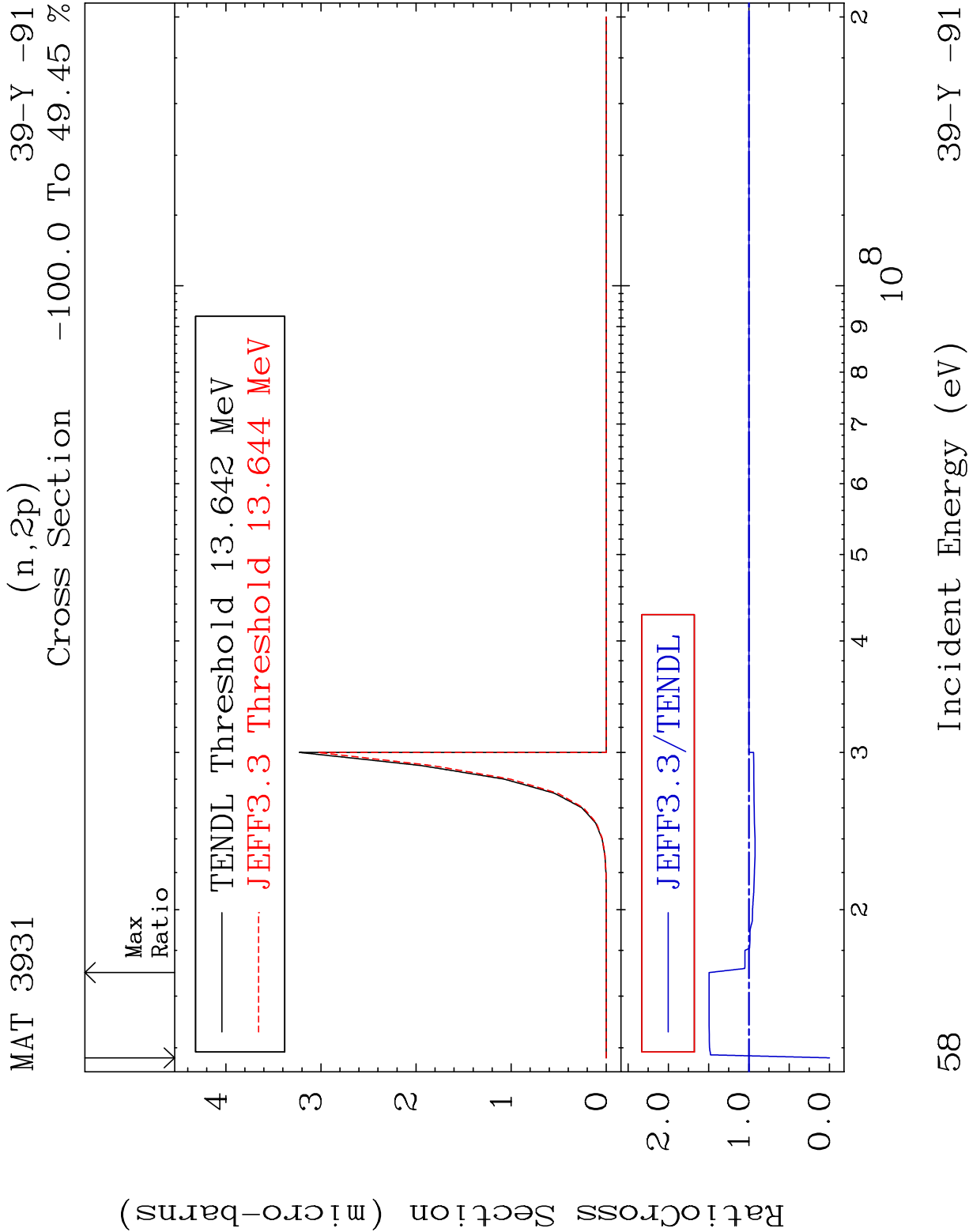
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

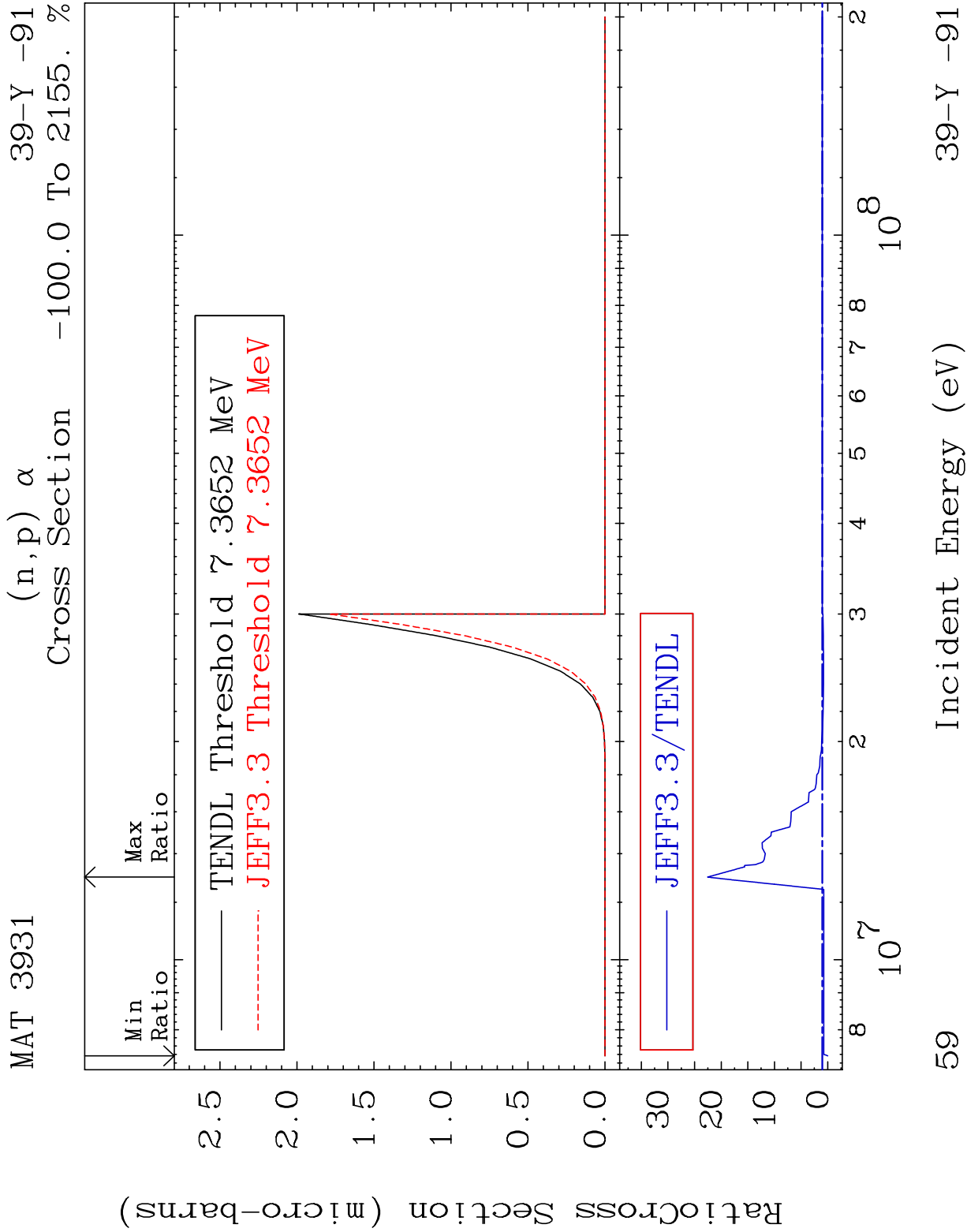
56

Incident Energy (eV)

39-Y -91





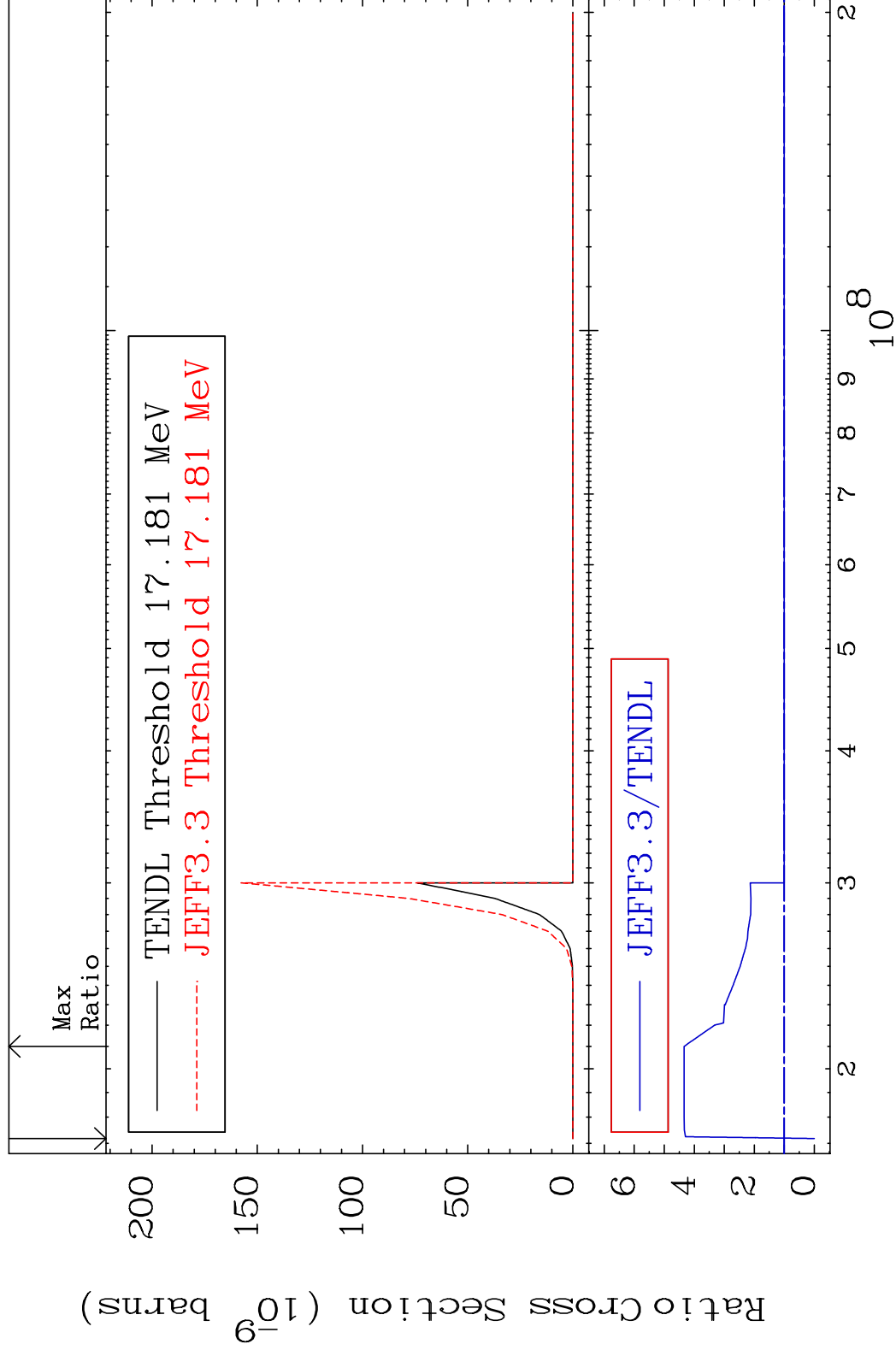


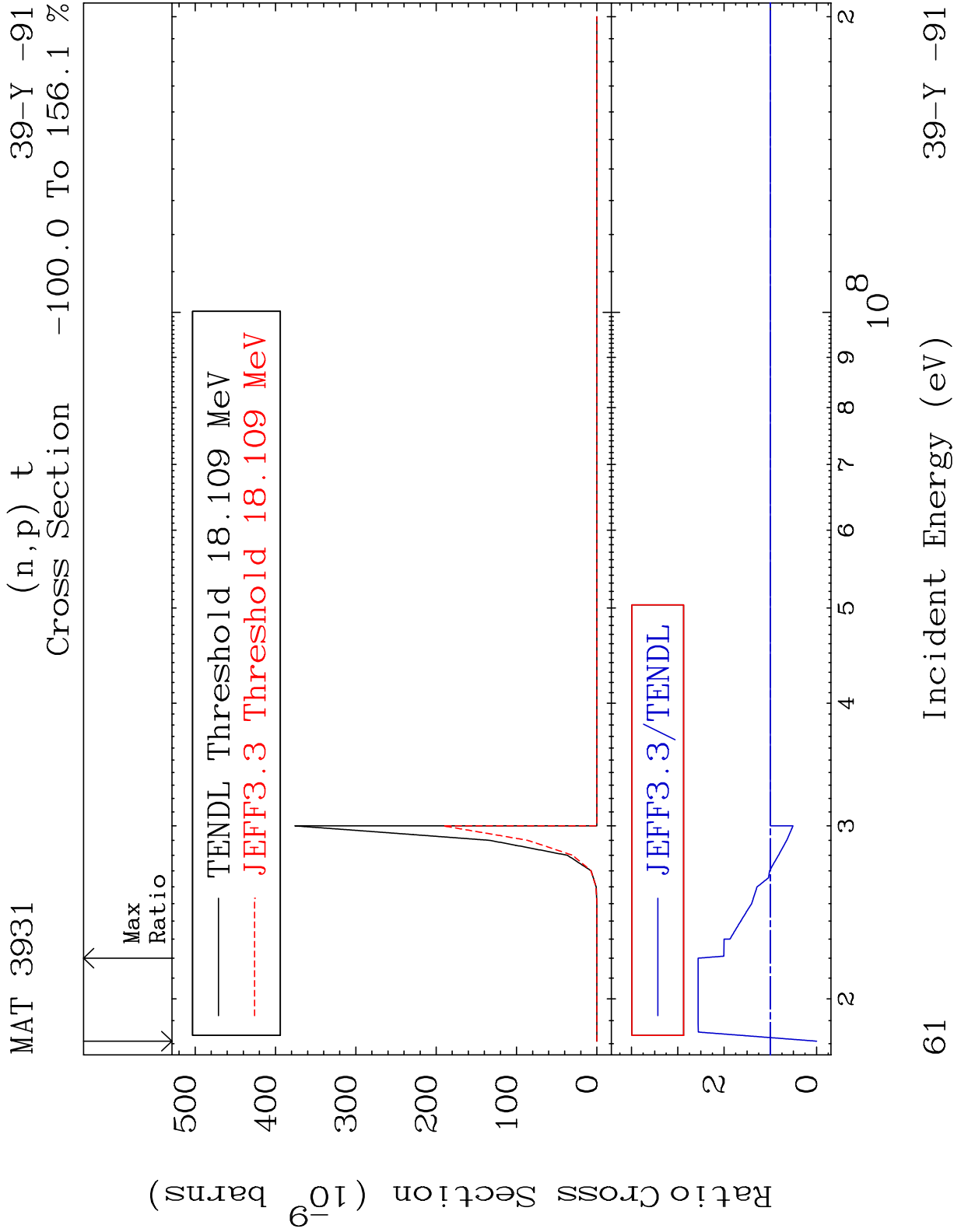
MAT 3931

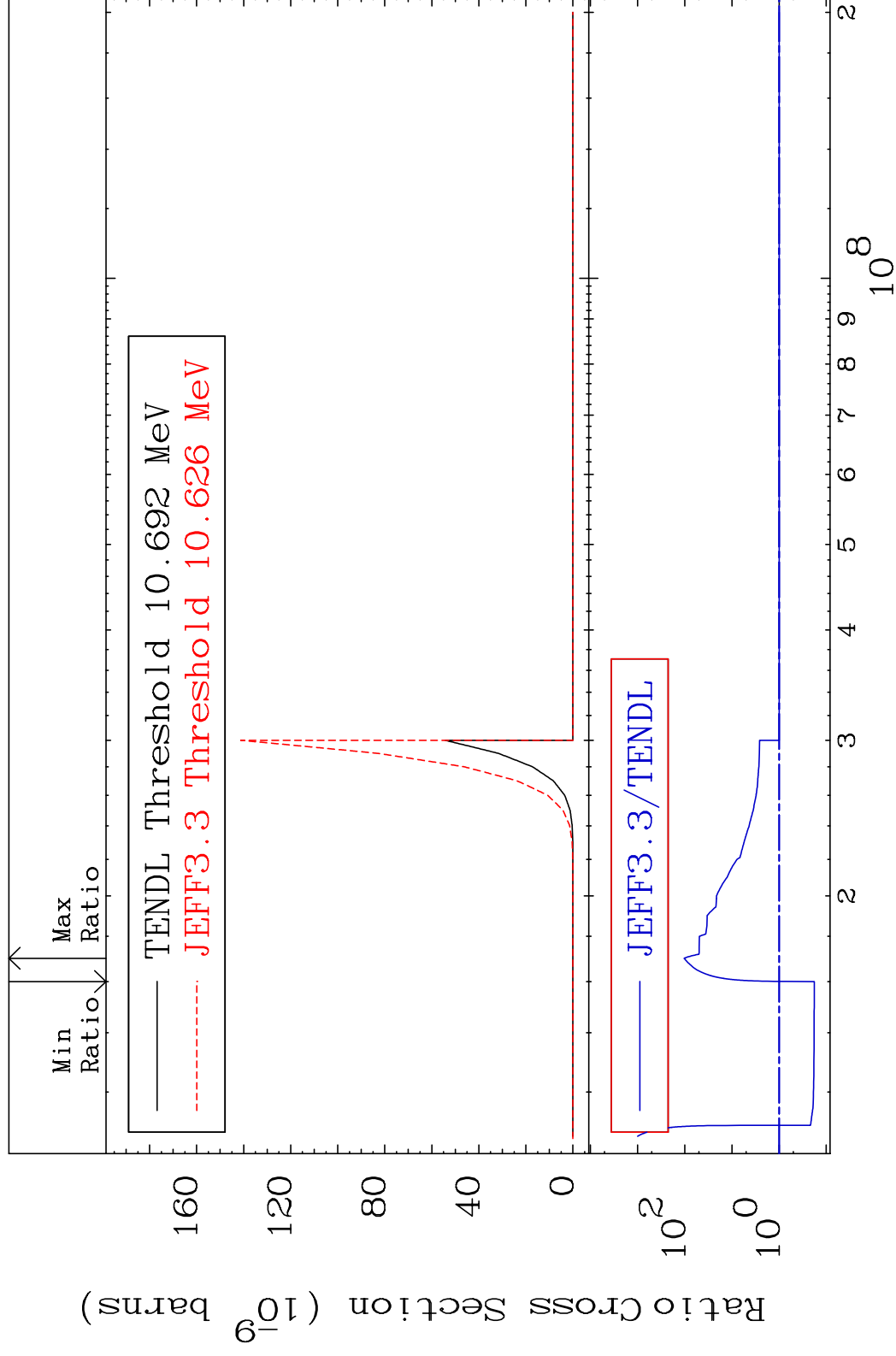
$$(n, p)$$

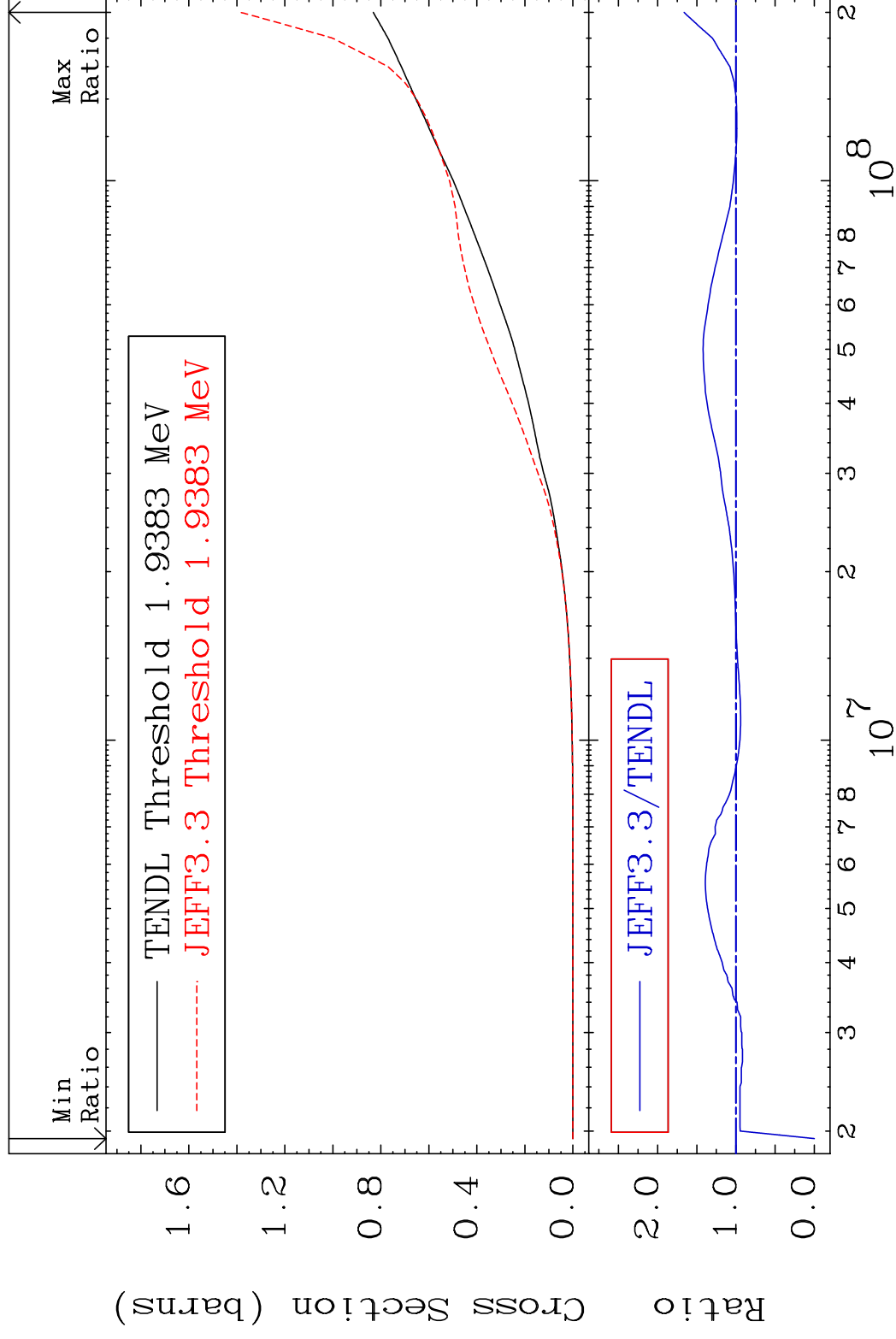
39-Y -91

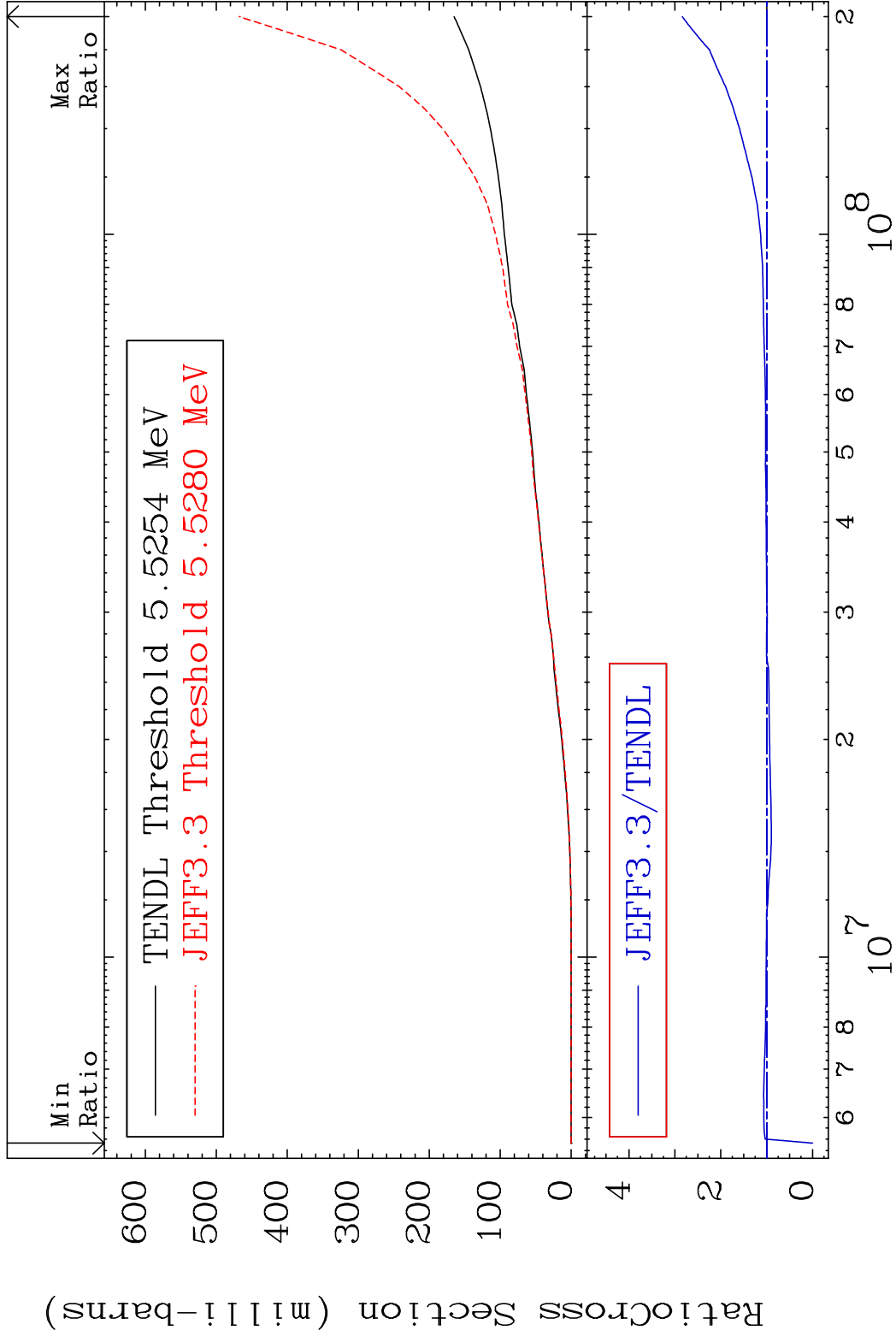
Cross Section

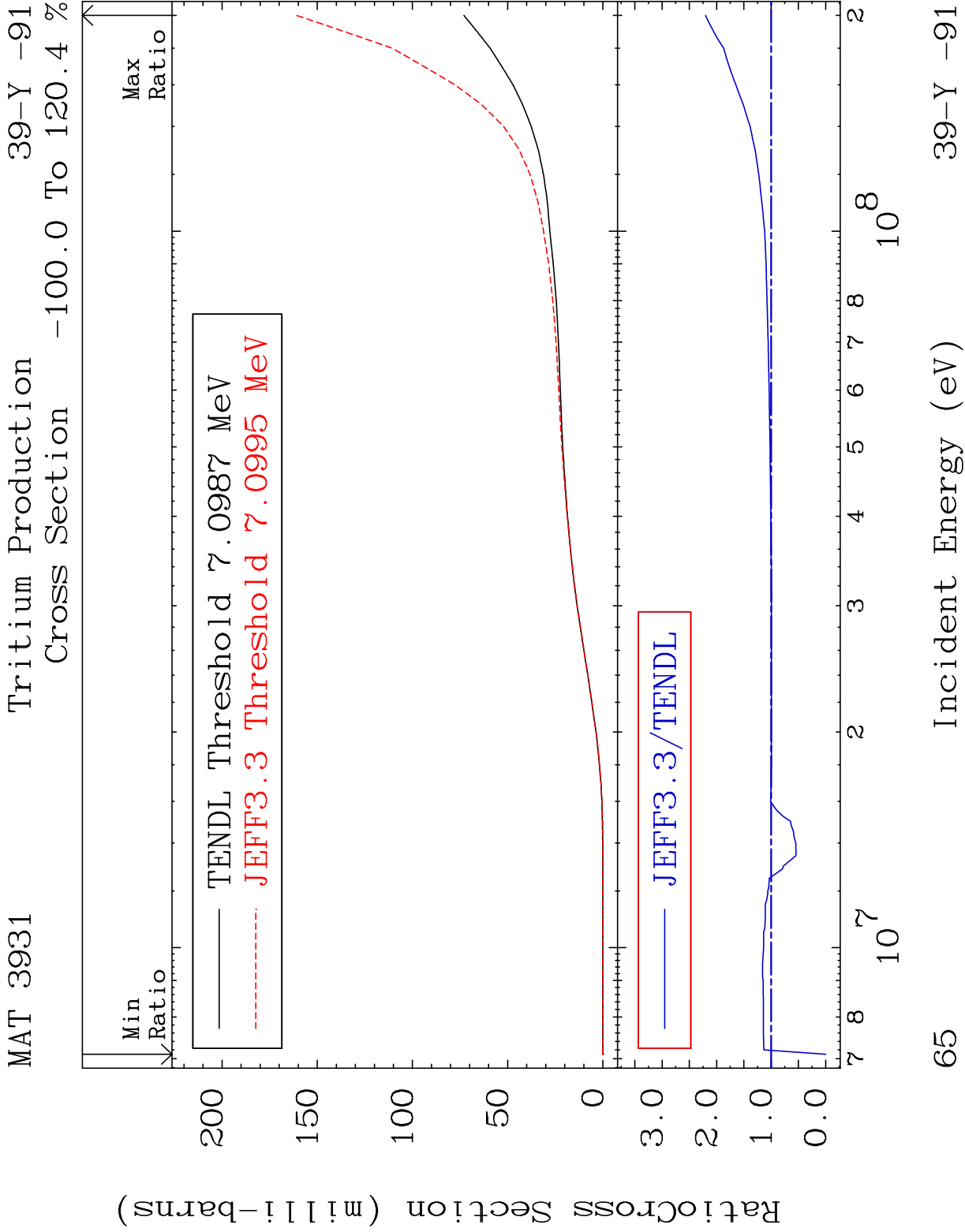


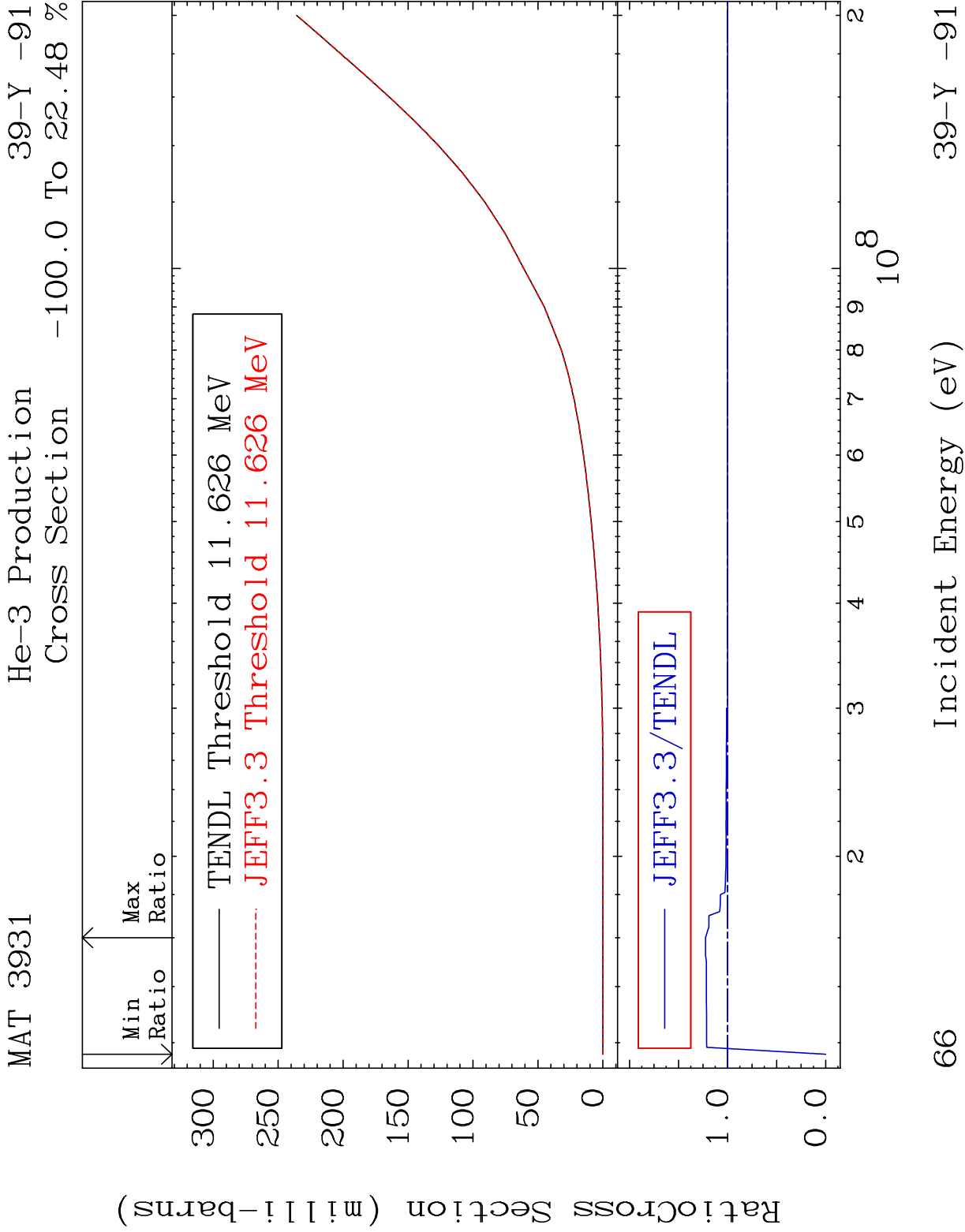










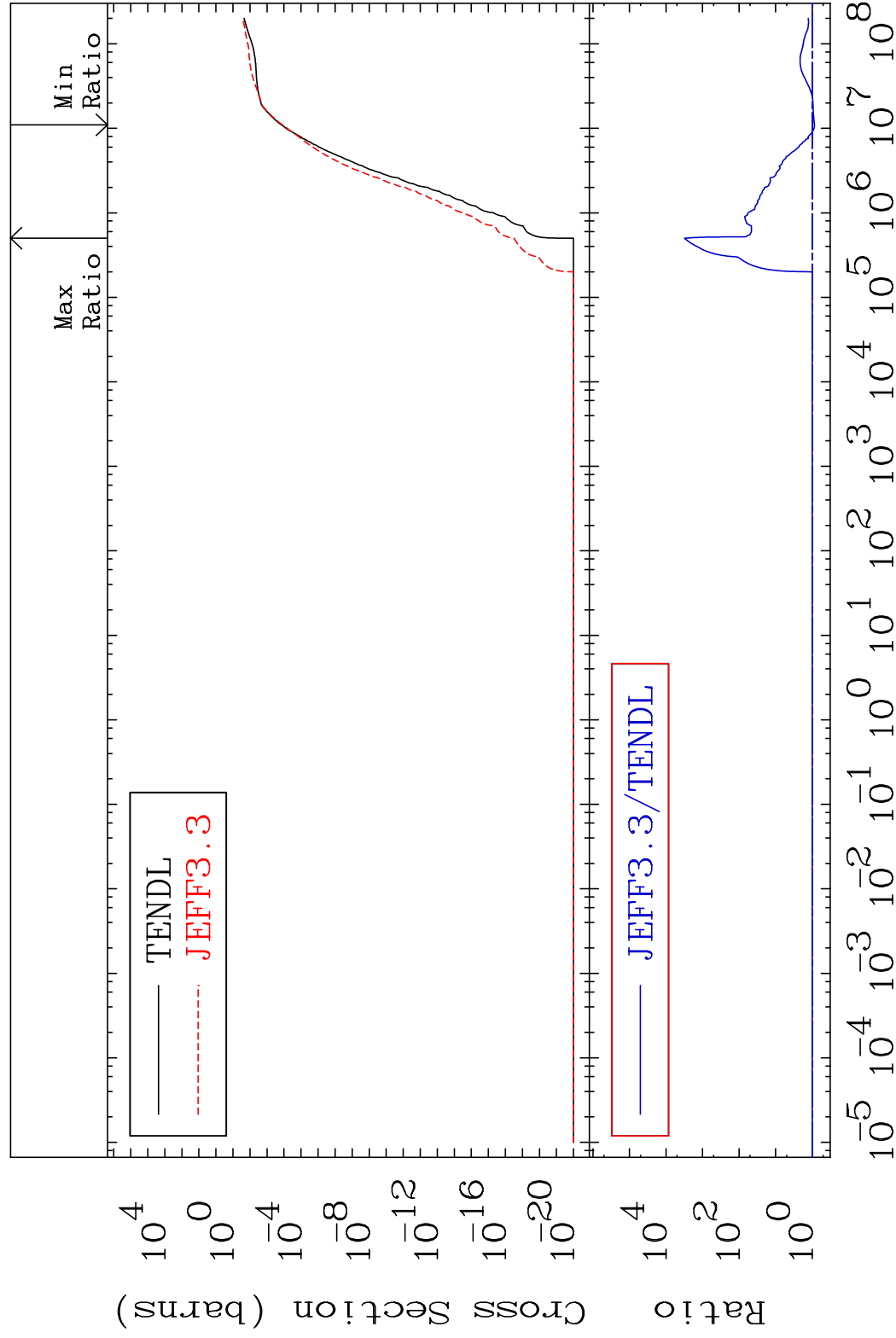


MAT 3931

He-4 Production

39-Y -91

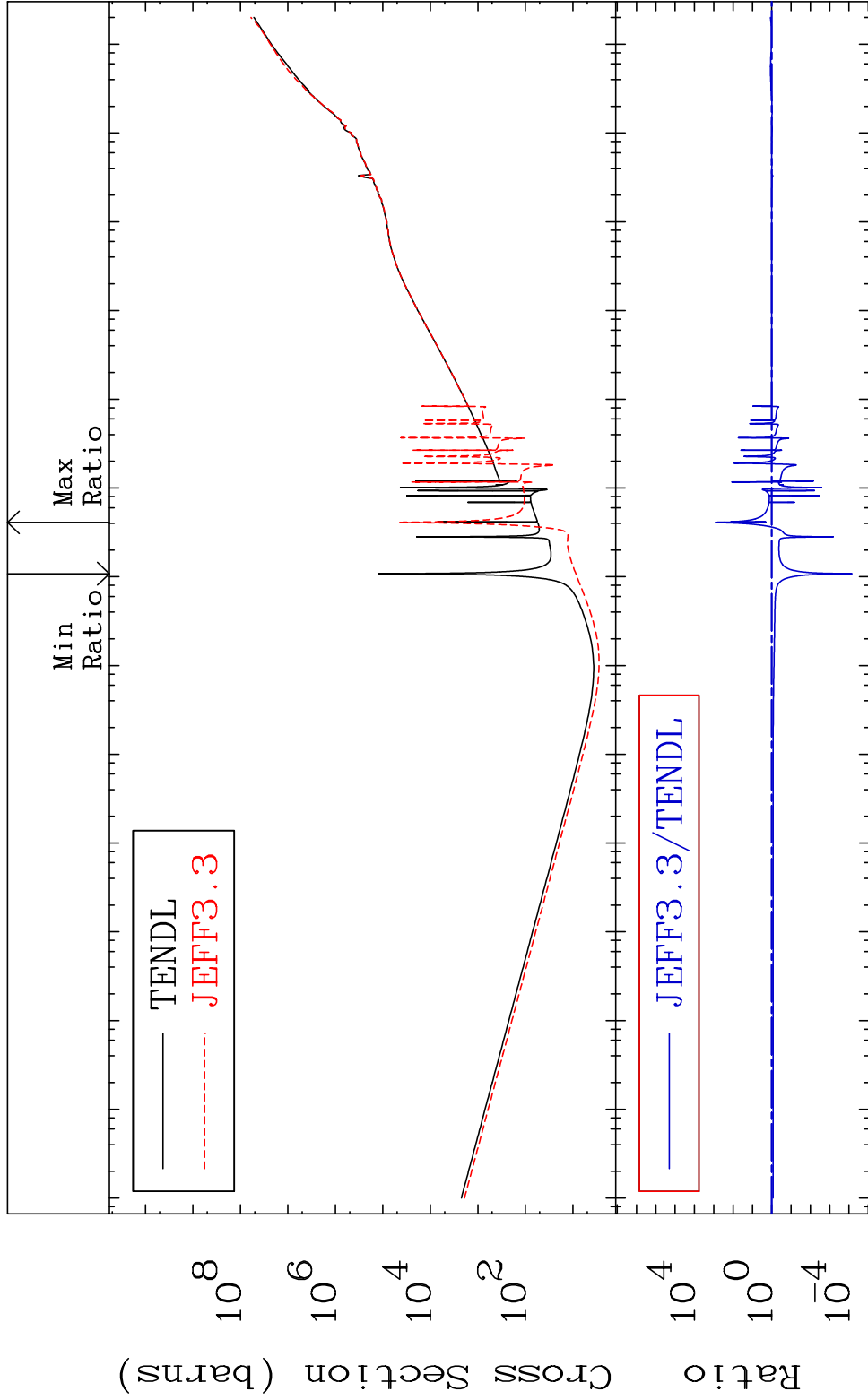
Cross Section -13.16 To 9999. %



67

Incident Energy (eV)

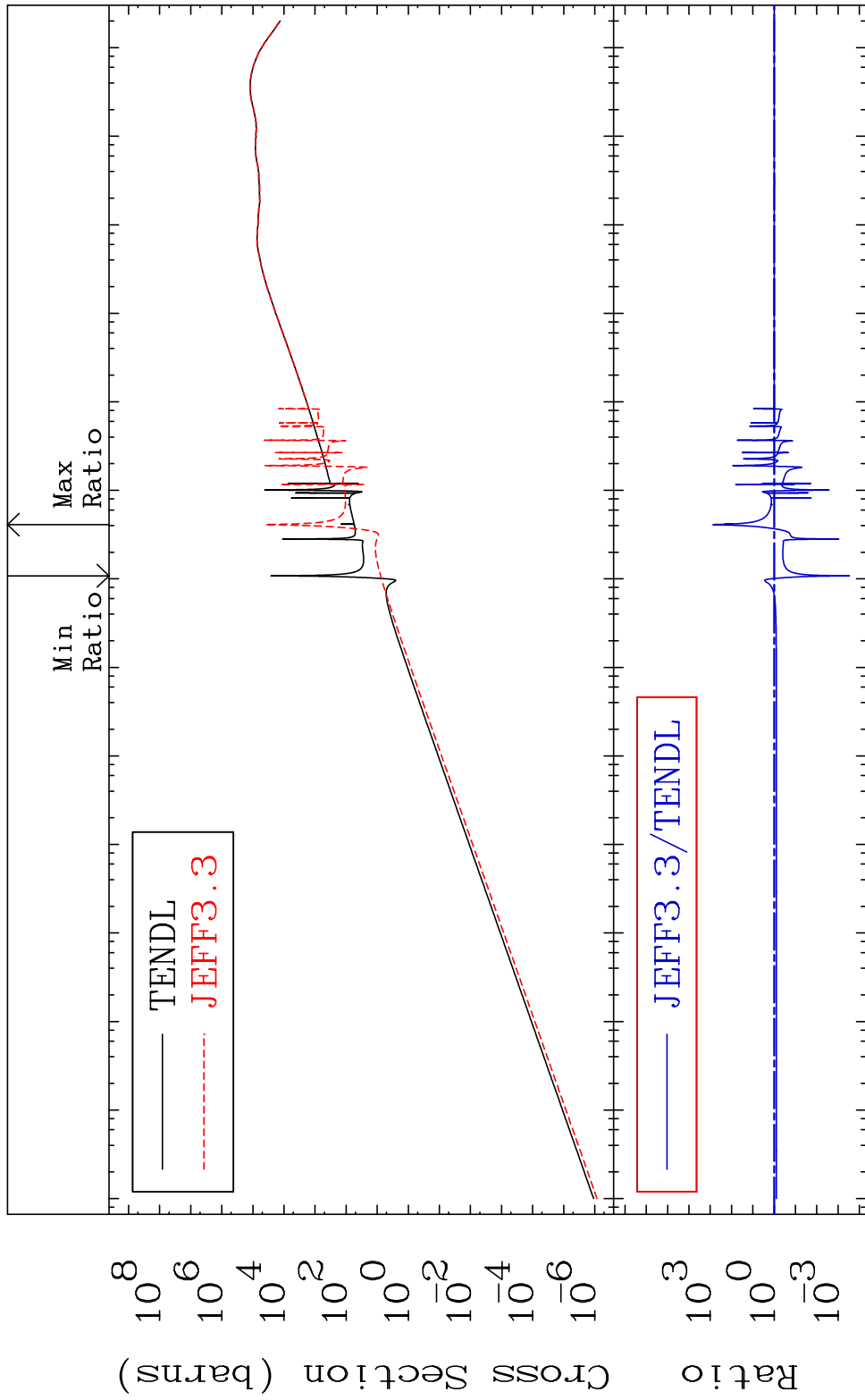
39-Y -91



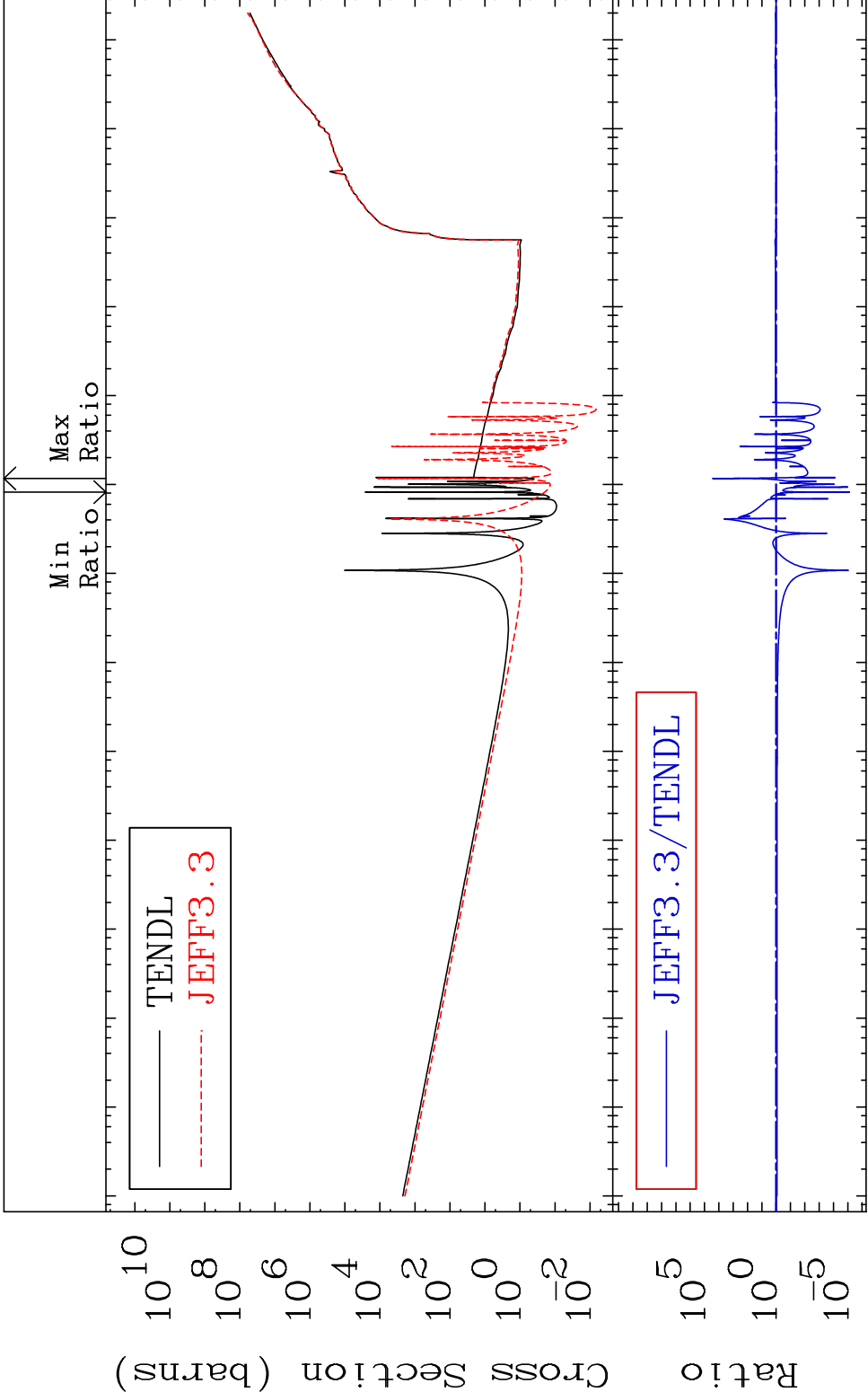
MAT 3931

Kerma elastic
Cross Section

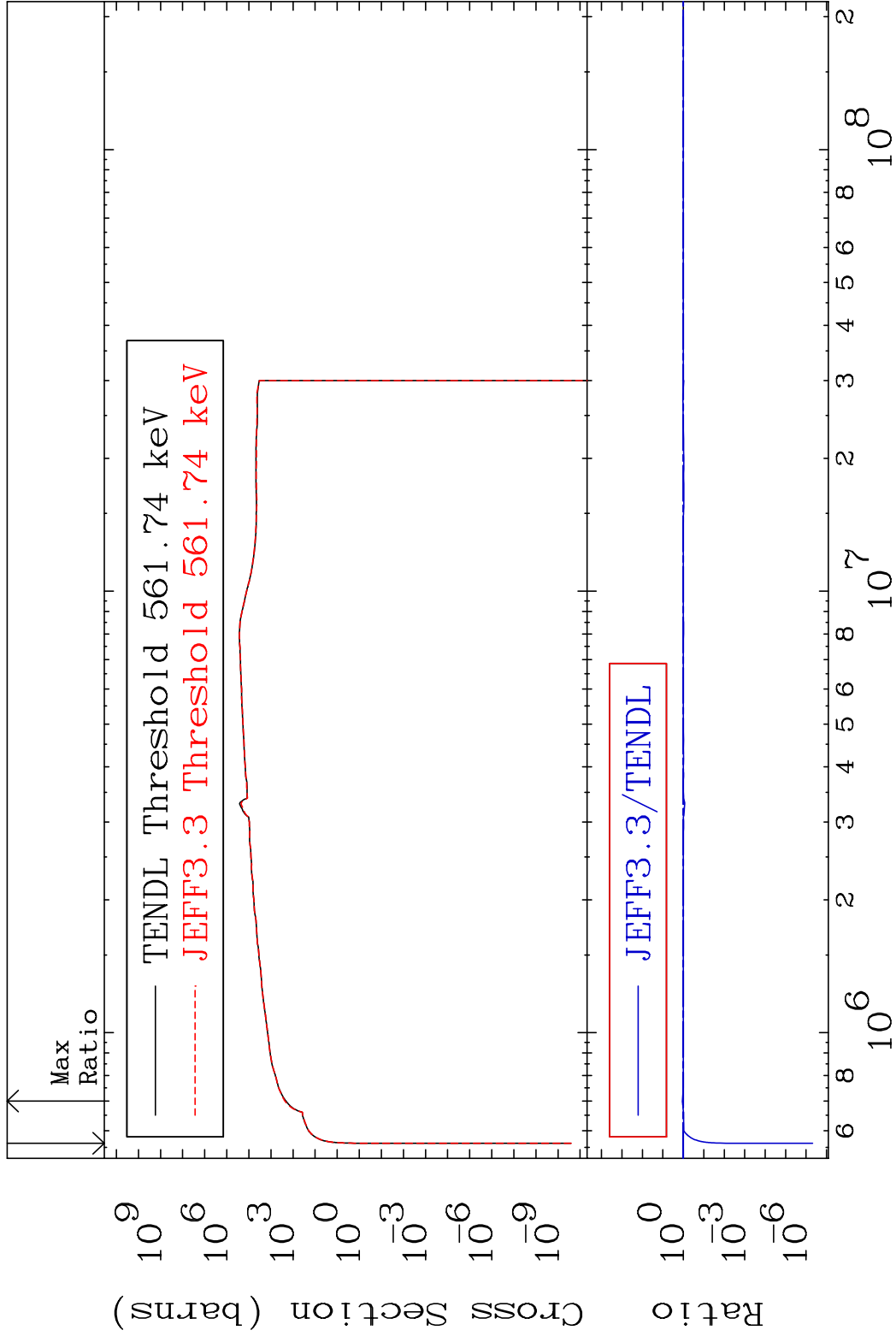
39-Y -91
-99.97 To 9999. %



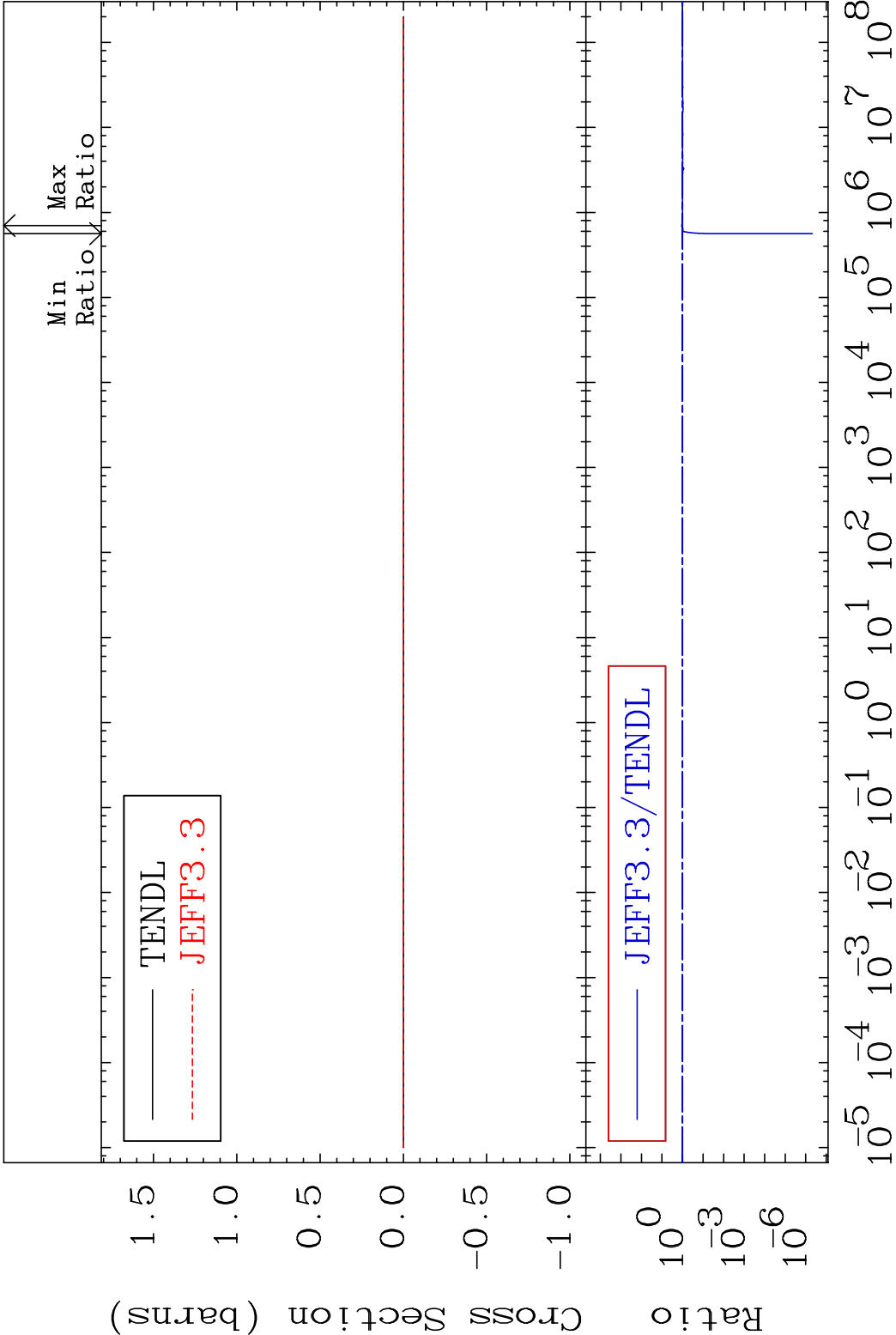
MAT 3931 Kerma non-elastic (all but mt2) 39-Y -91
Cross Section -100.0 To 9999. %



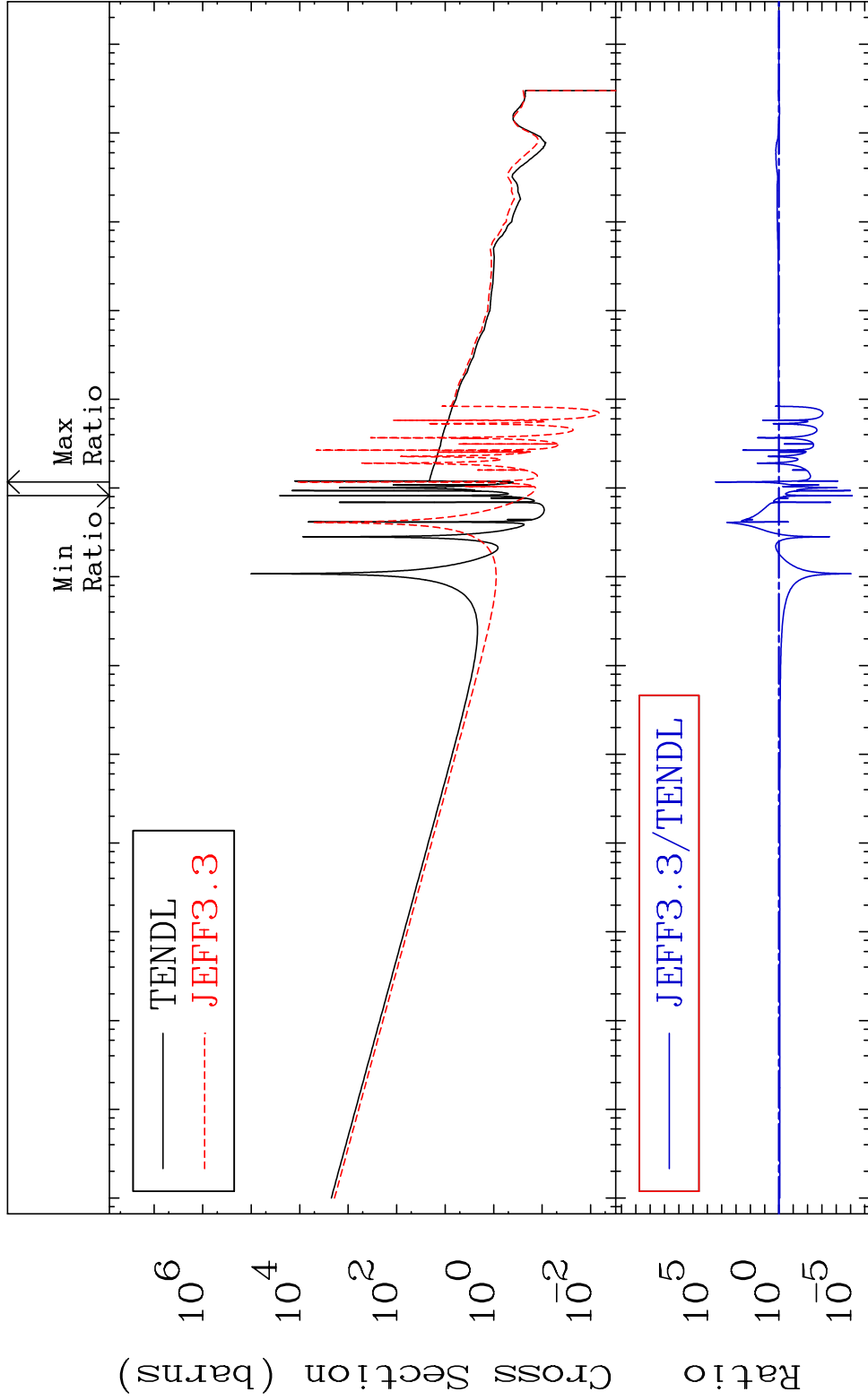
70 Incident Energy (eV) 39-Y -91



MAT 3931 Kerma fission (mt18 or mt19-20-21-38) 39-Y -91
Cross Section -100.0 To 11.63 %

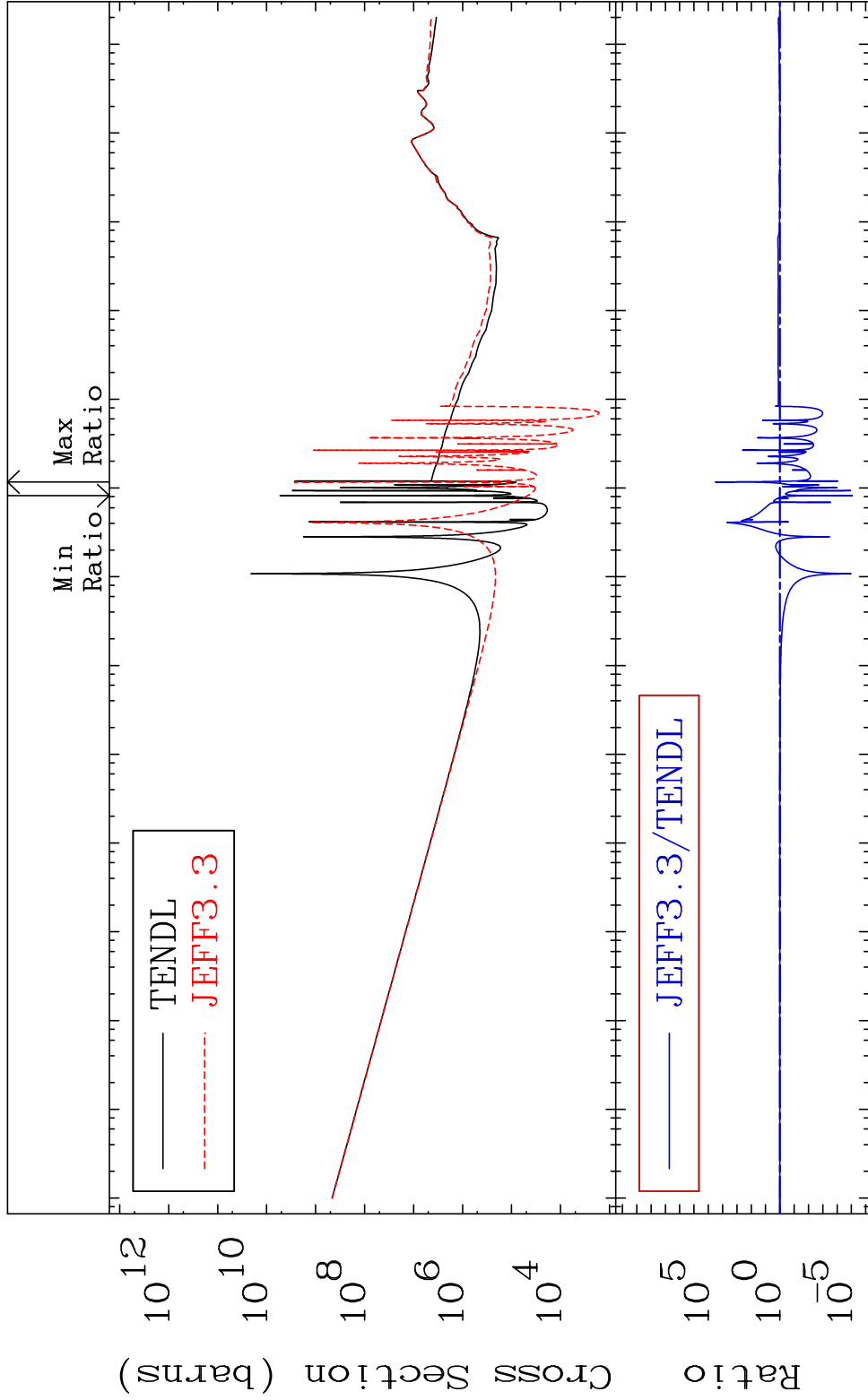


MAT 3931 Kerma capture (mt102) 39-Y -91
Cross Section -100.0 To 9999. %



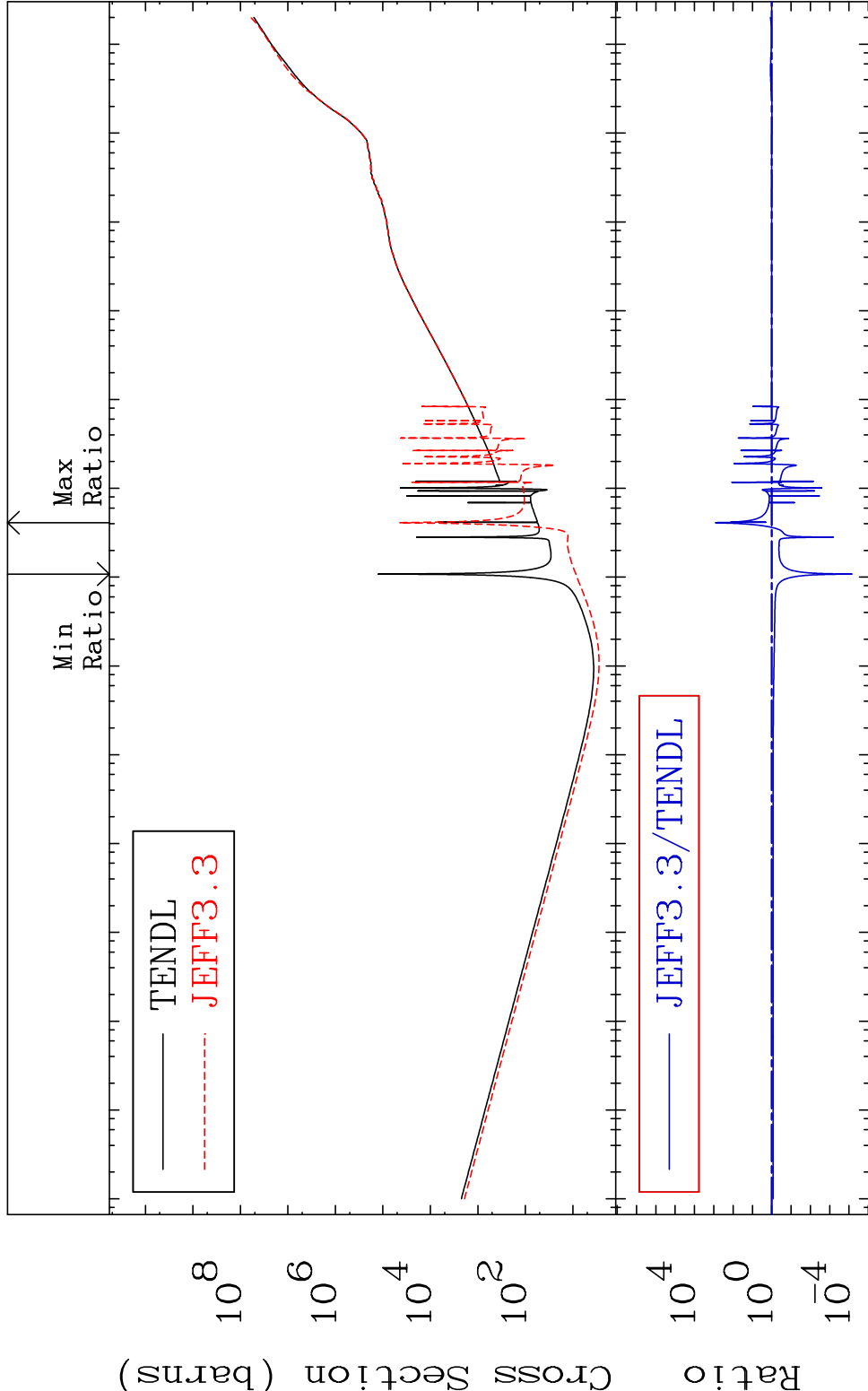
73 Incident Energy (eV) 39-Y -91

MAT 3931 Total photon (eV-barns) 39-Y -91
Cross Section -100.0 To 9999. %



MAT 3931 Total kinematic kerma (high limit) 39-Y -91

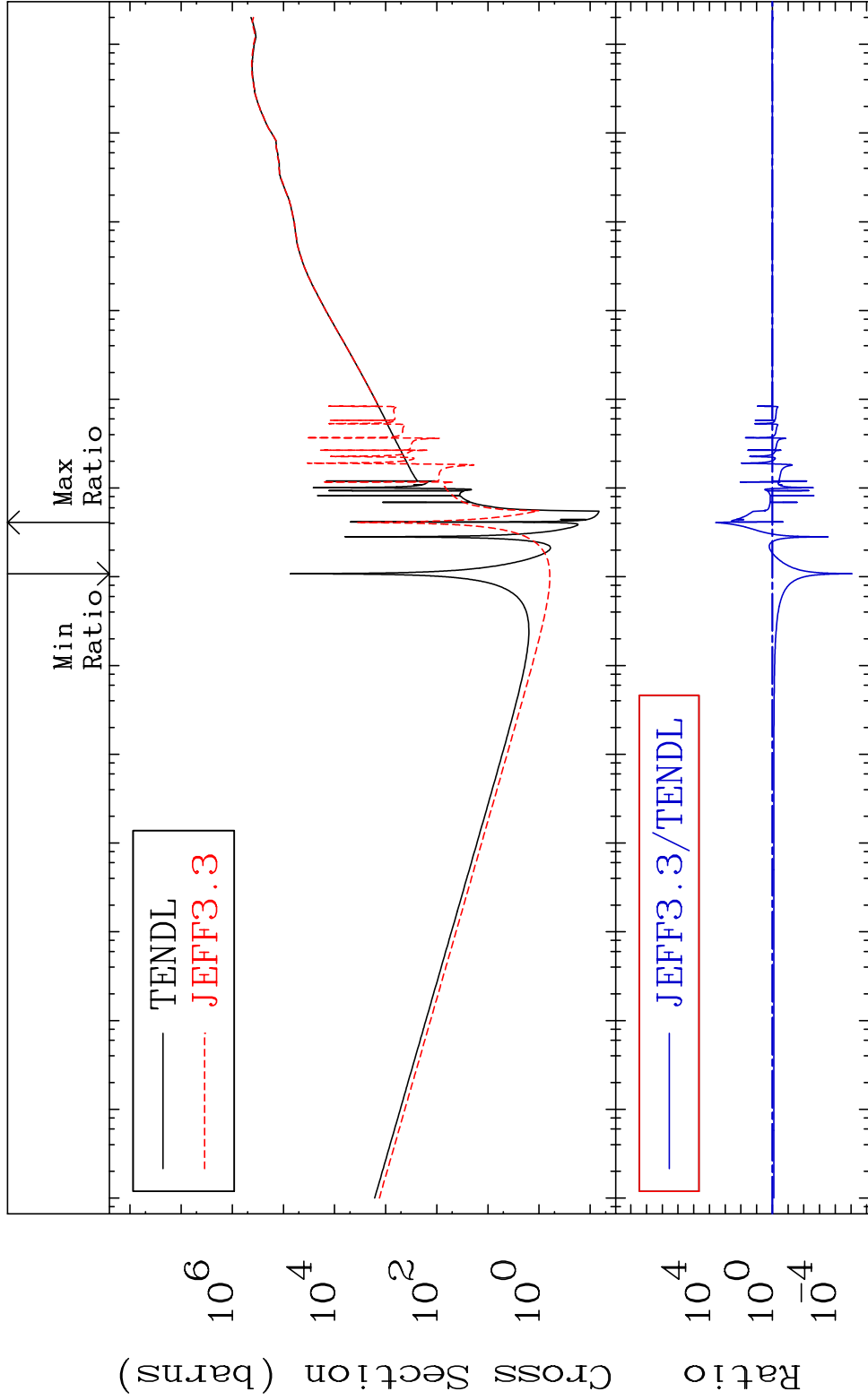
Cross Section -99.99 To 9999. %



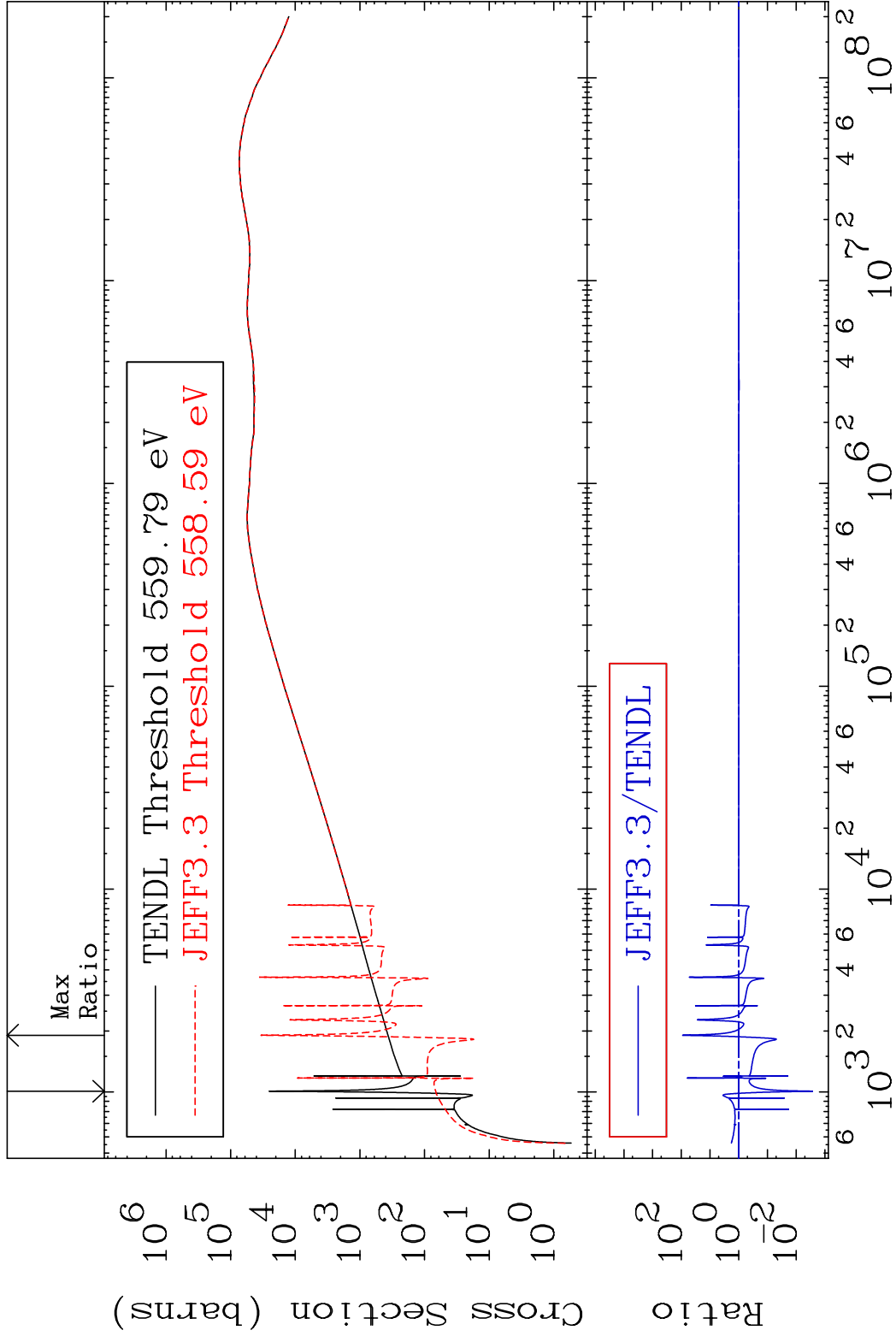
Incident Energy (eV)

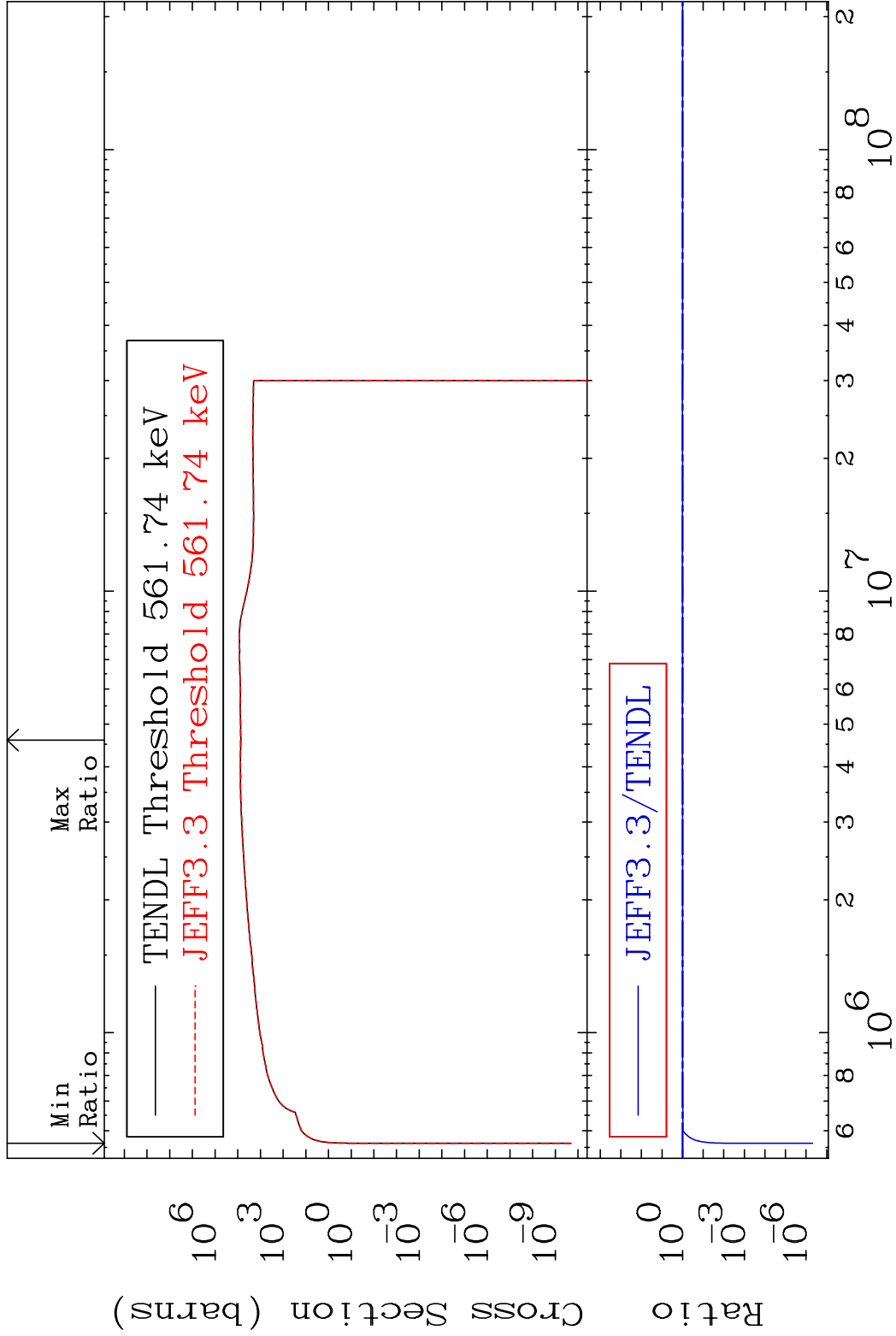
75 39-Y -91

MAT 3931 Dpa total (eV-barns) 39-Y -91
Cross Section -100.0 To 9999. %

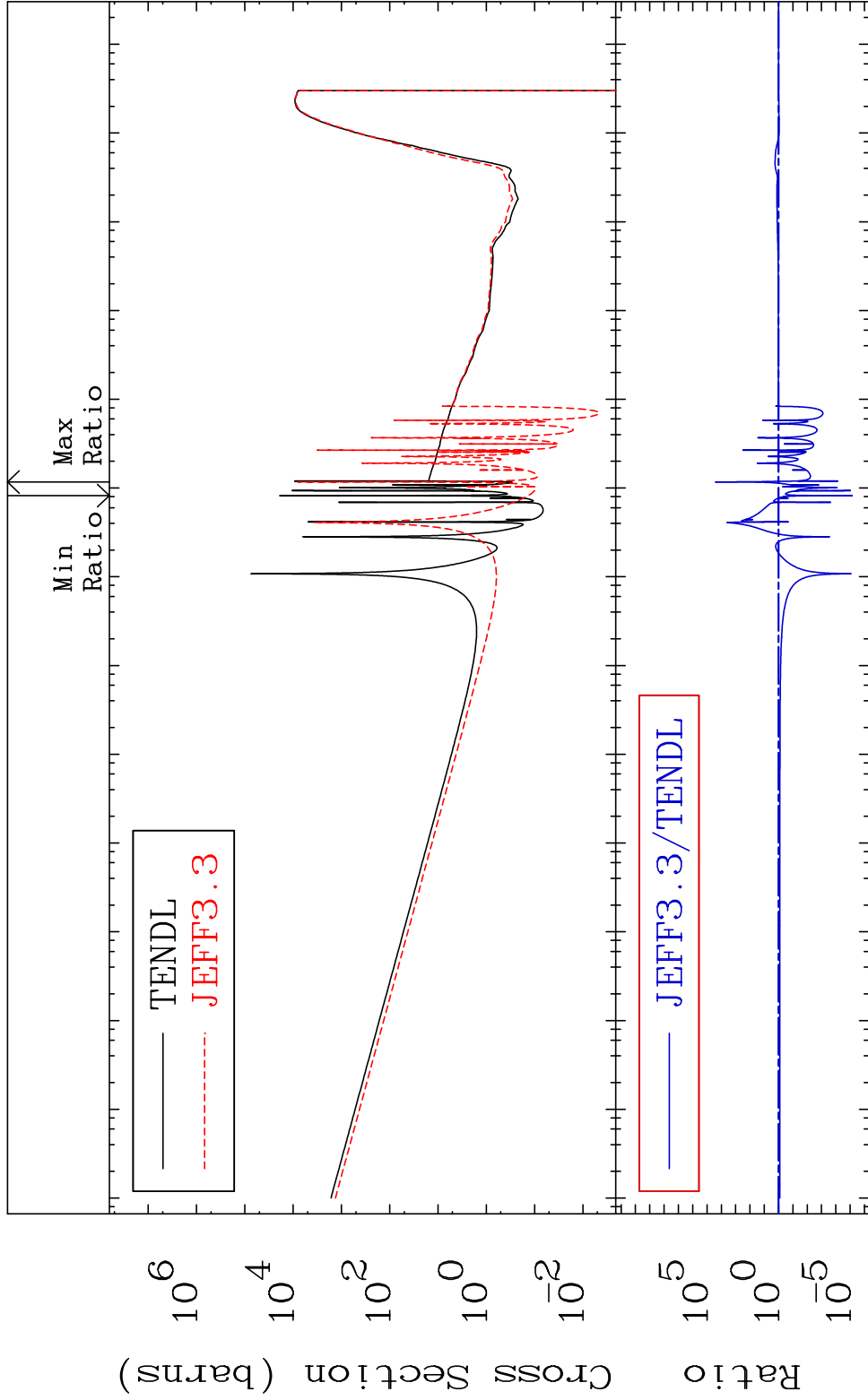


76 Incident Energy (eV) 39-Y -91



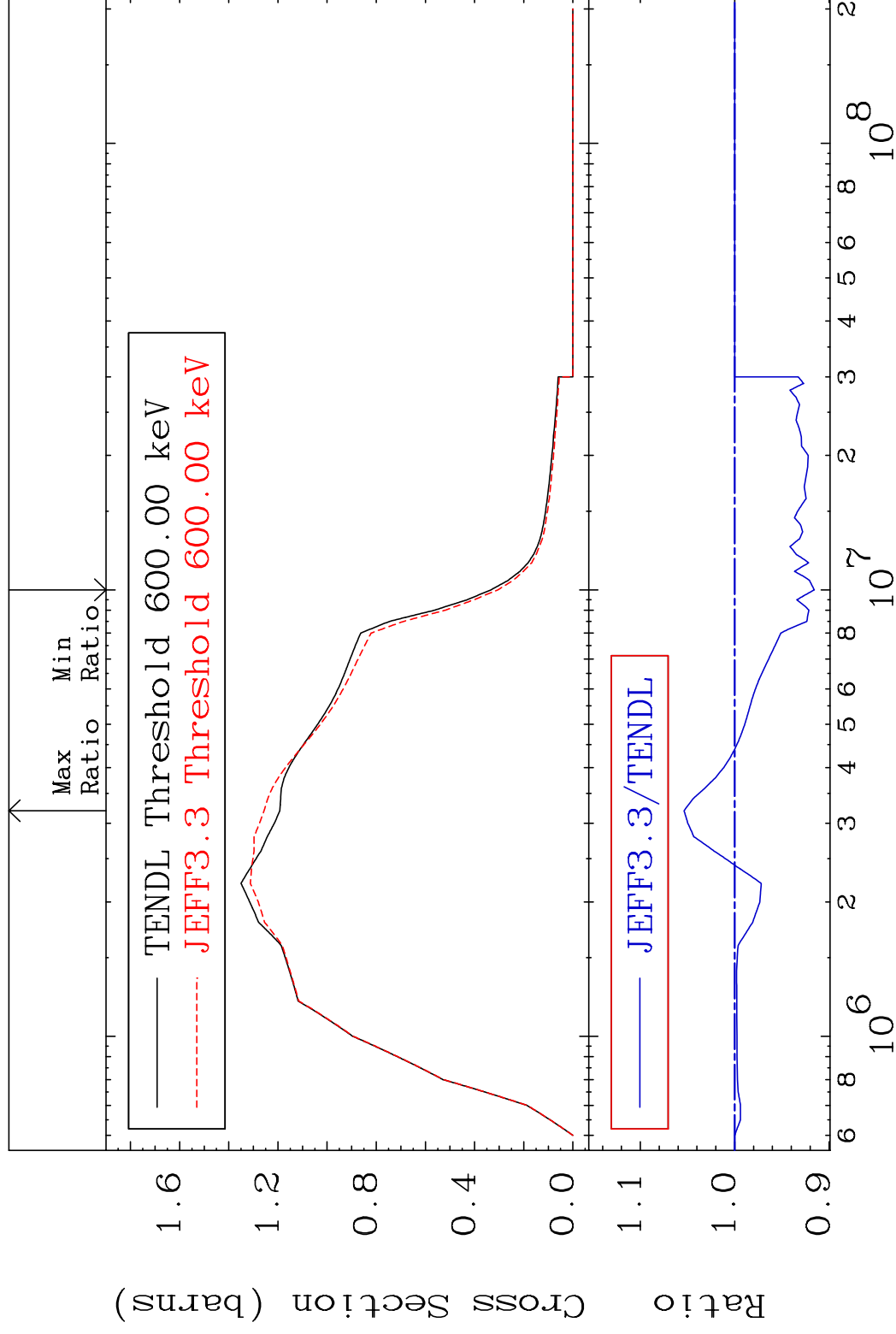


MAT 3931 Dpa disappearance (mt102 -120) 39-Y -91
Cross Section -100.0 To 9999. %

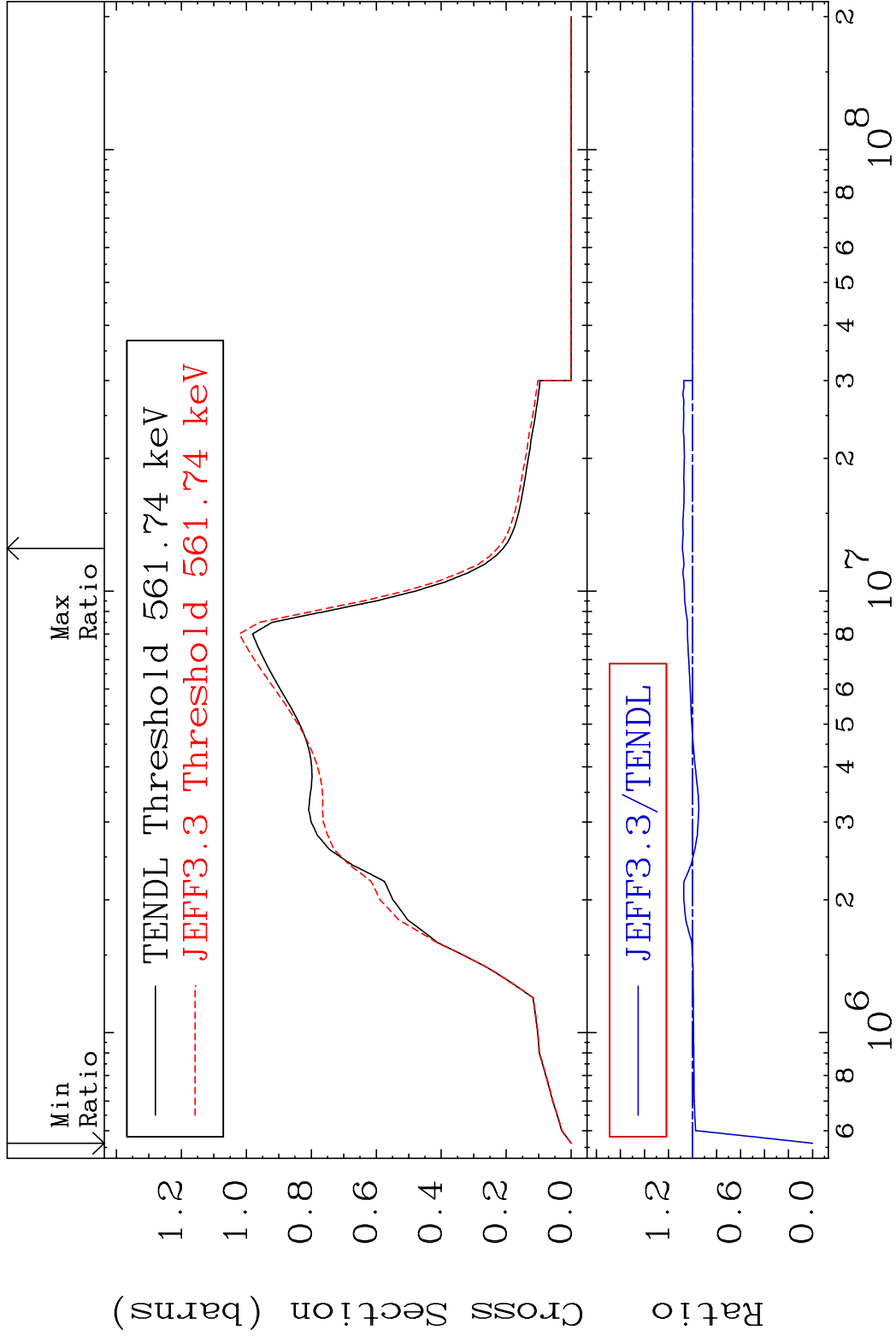


79 Incident Energy (eV) 39-Y -91

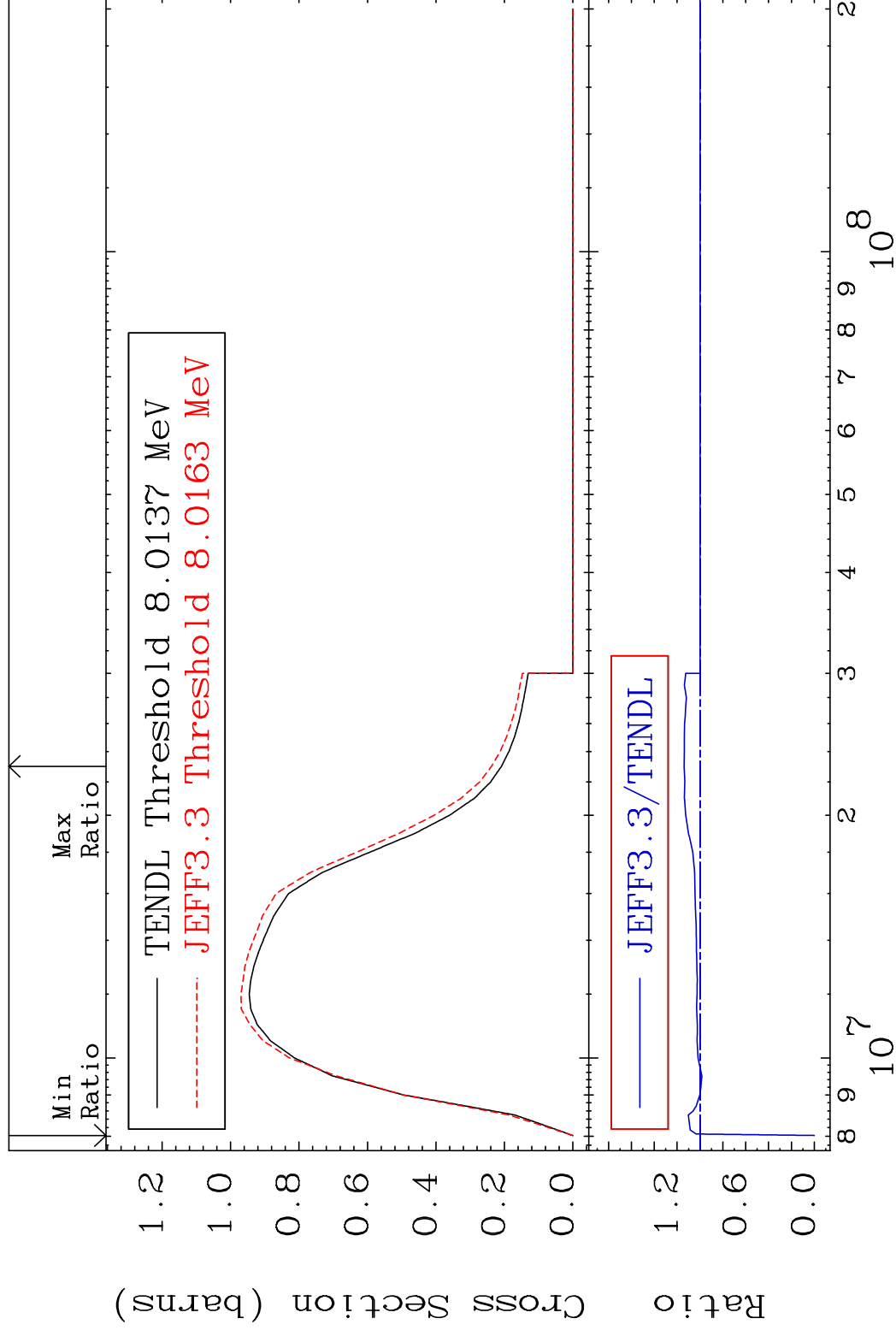
MAT 3931	Inelastic:39-Y -91g	39-Y -91
	Radionuclide Production Cross-Section	5.366 %

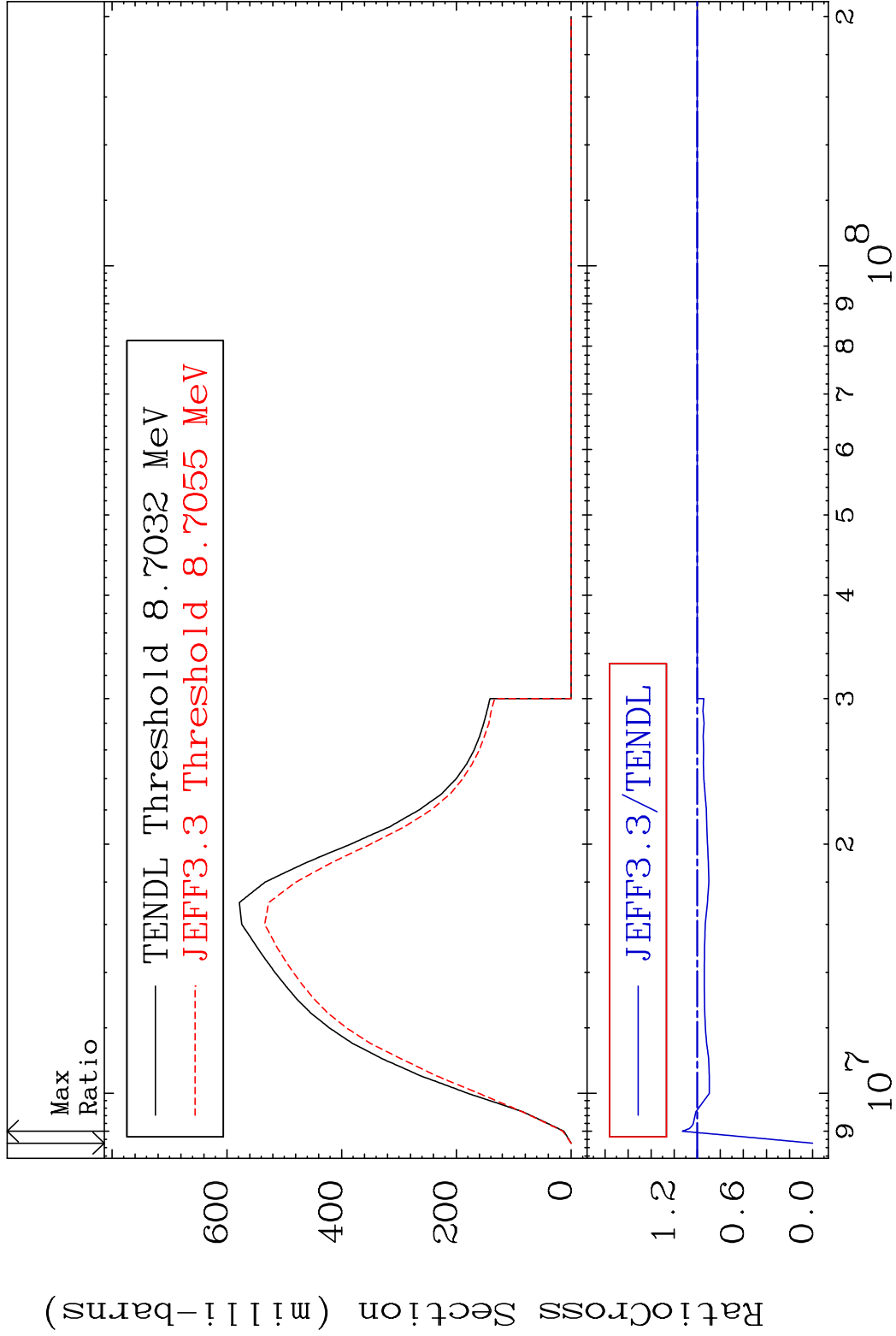


Incident Energy (eV)	39-Y -91
80	

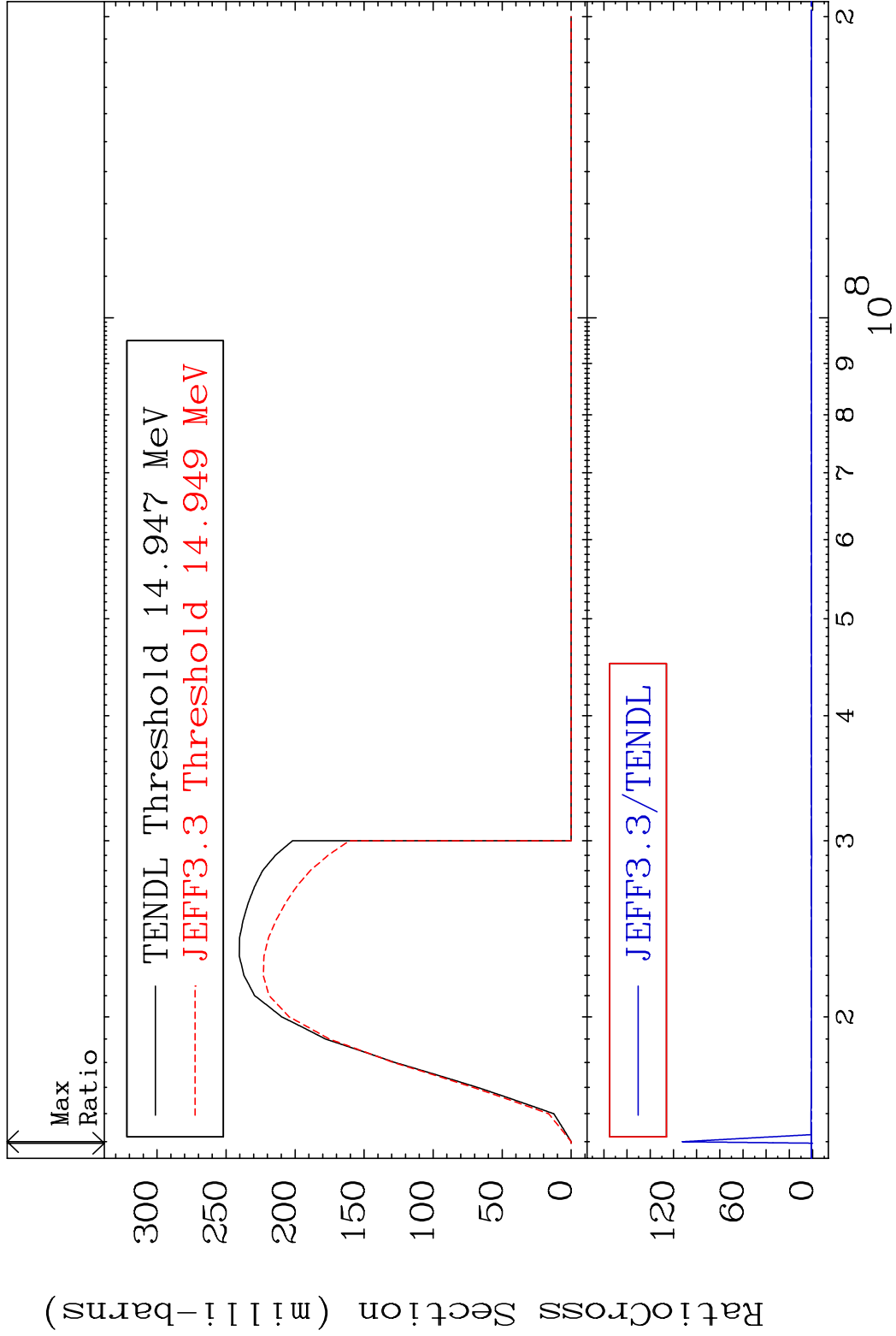


Radionuclide Production Cross-Section 13.93 %

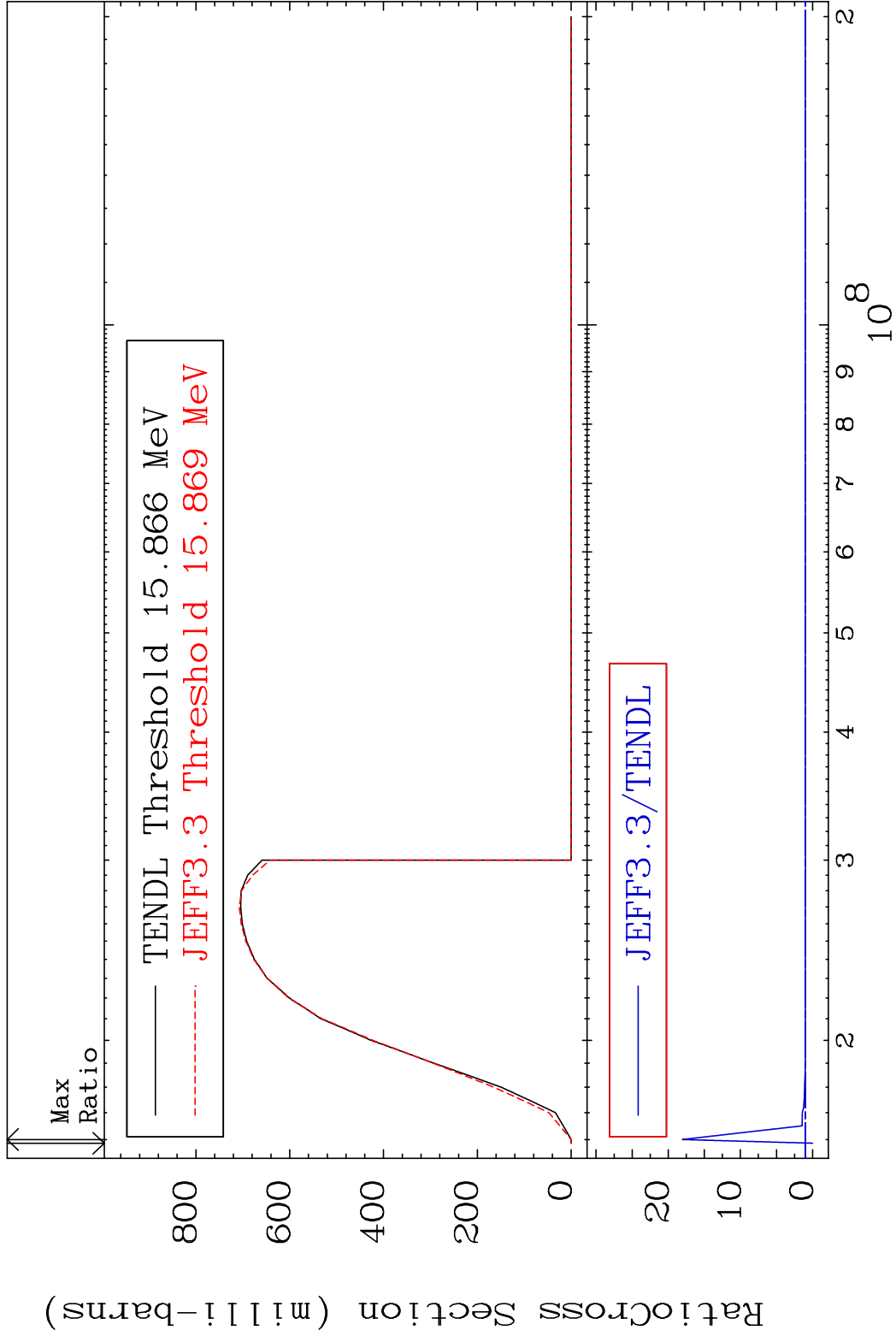


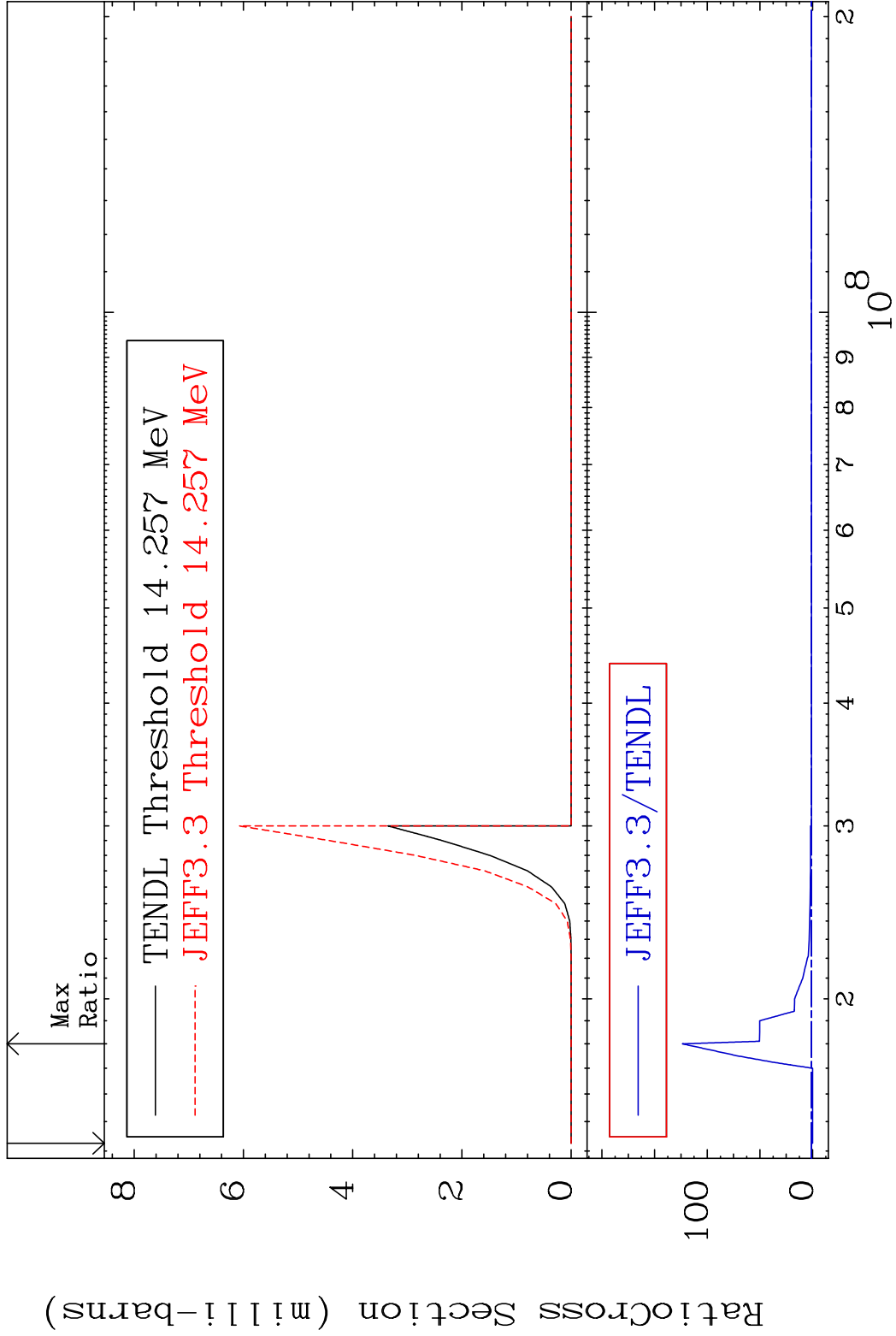


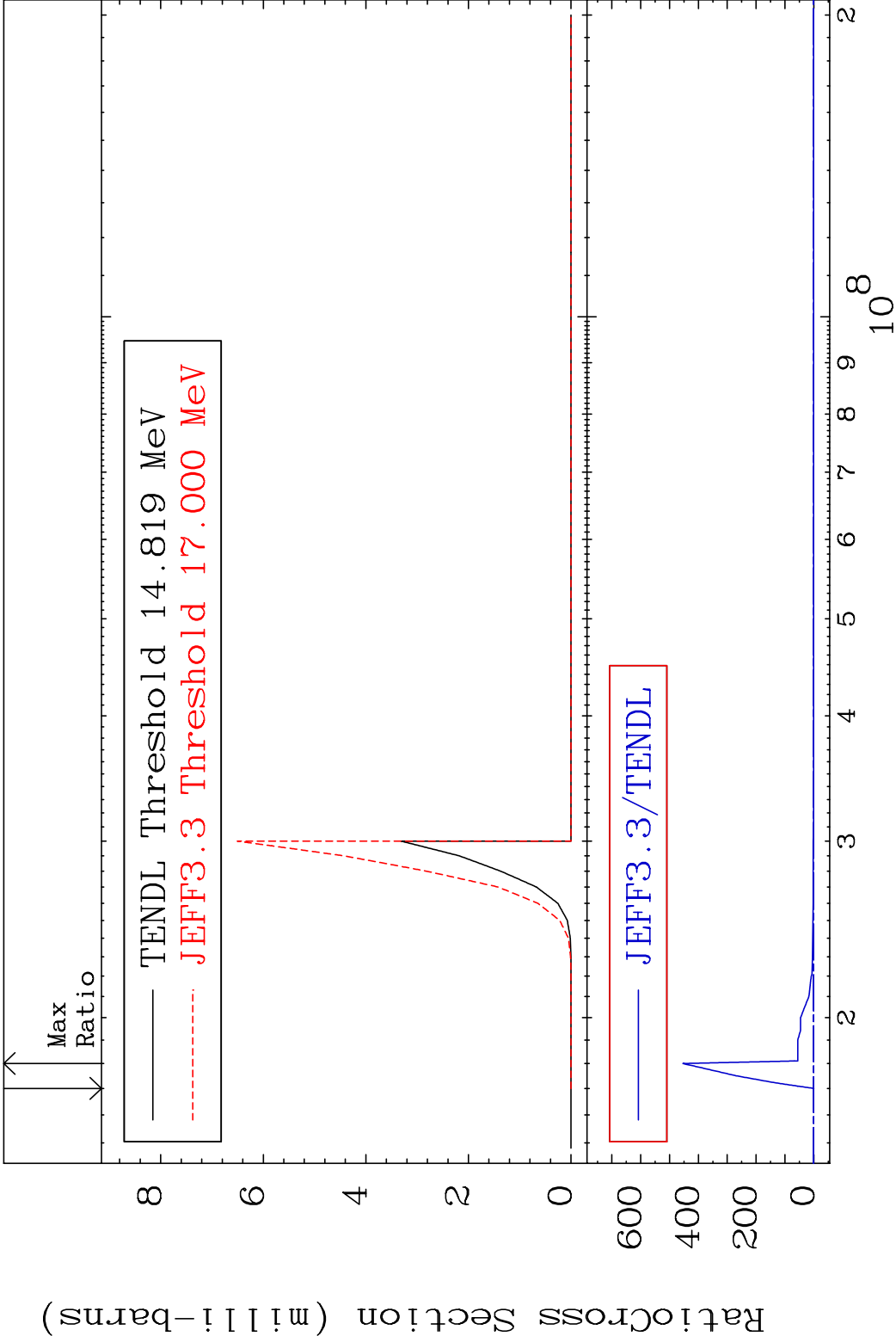
Radionuclide Production Cross Section (millibarns)



Radionuclide Production Cross Section 1800.0 dth 1704. %







Radionuclide Production Cross Section (barns)

