

Program Complot
(Version 2021-1)

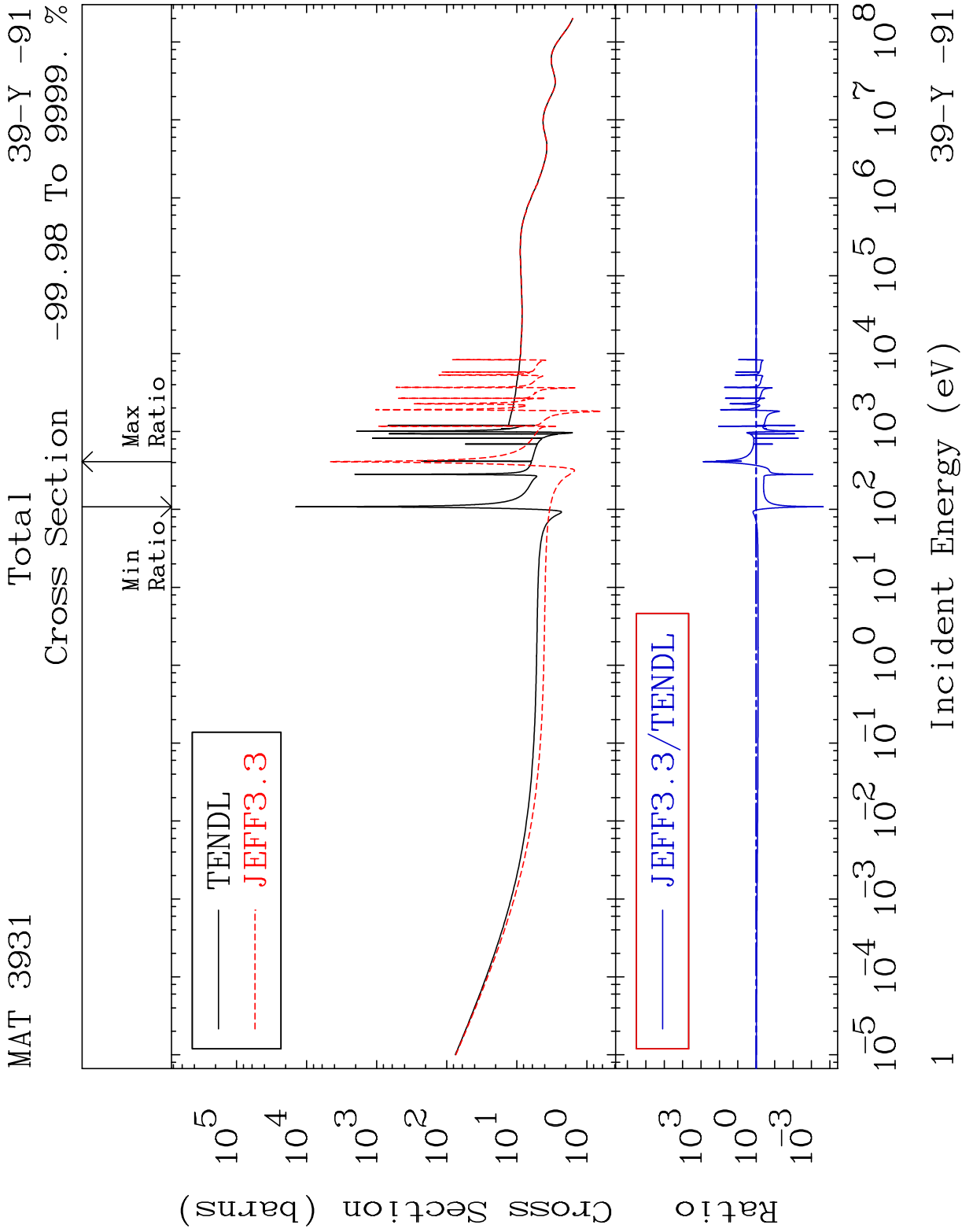
by

Dermott E. Cullen
(Present Contact Information)

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Livermore, CA 94550
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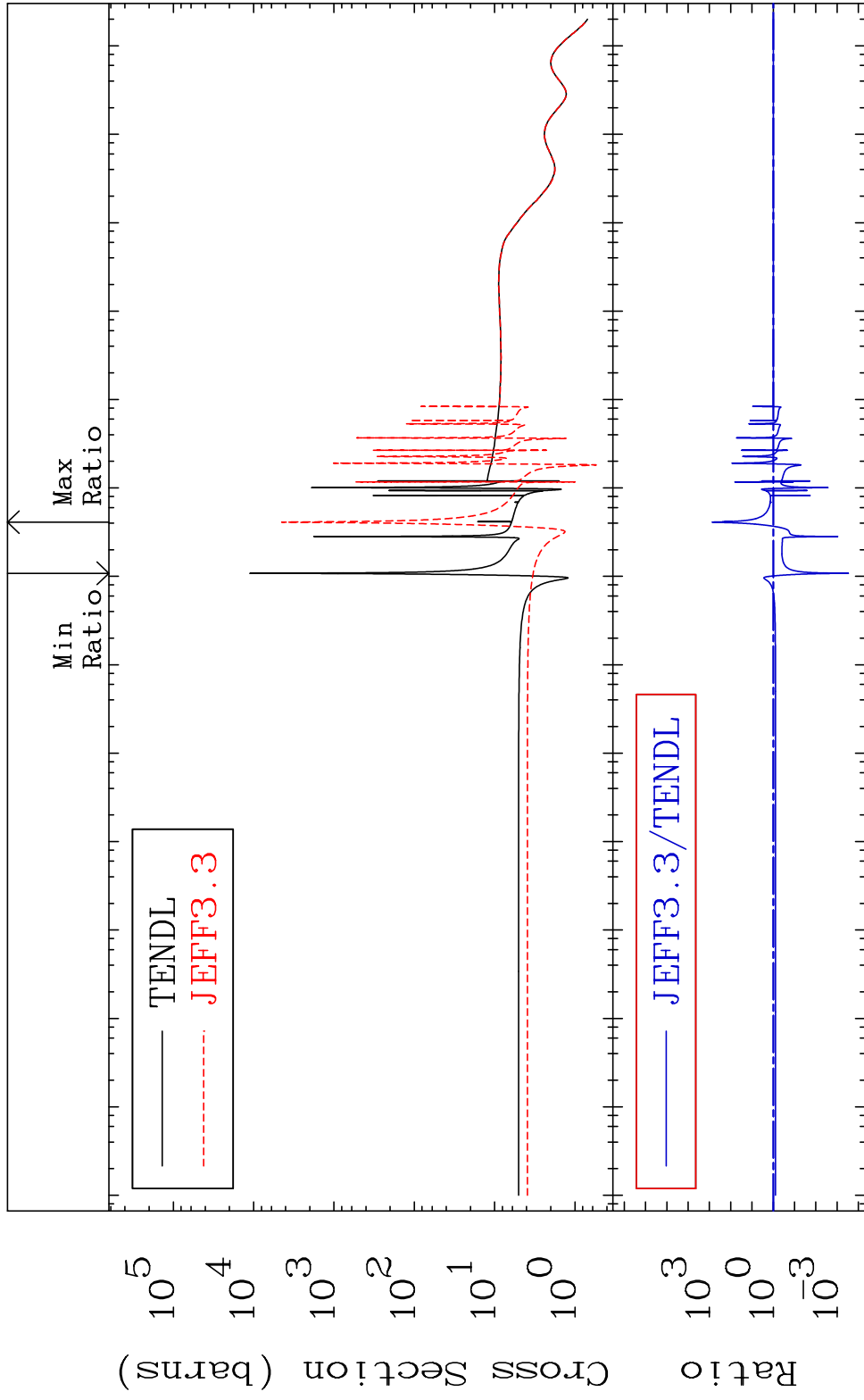
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start



MAT 3931

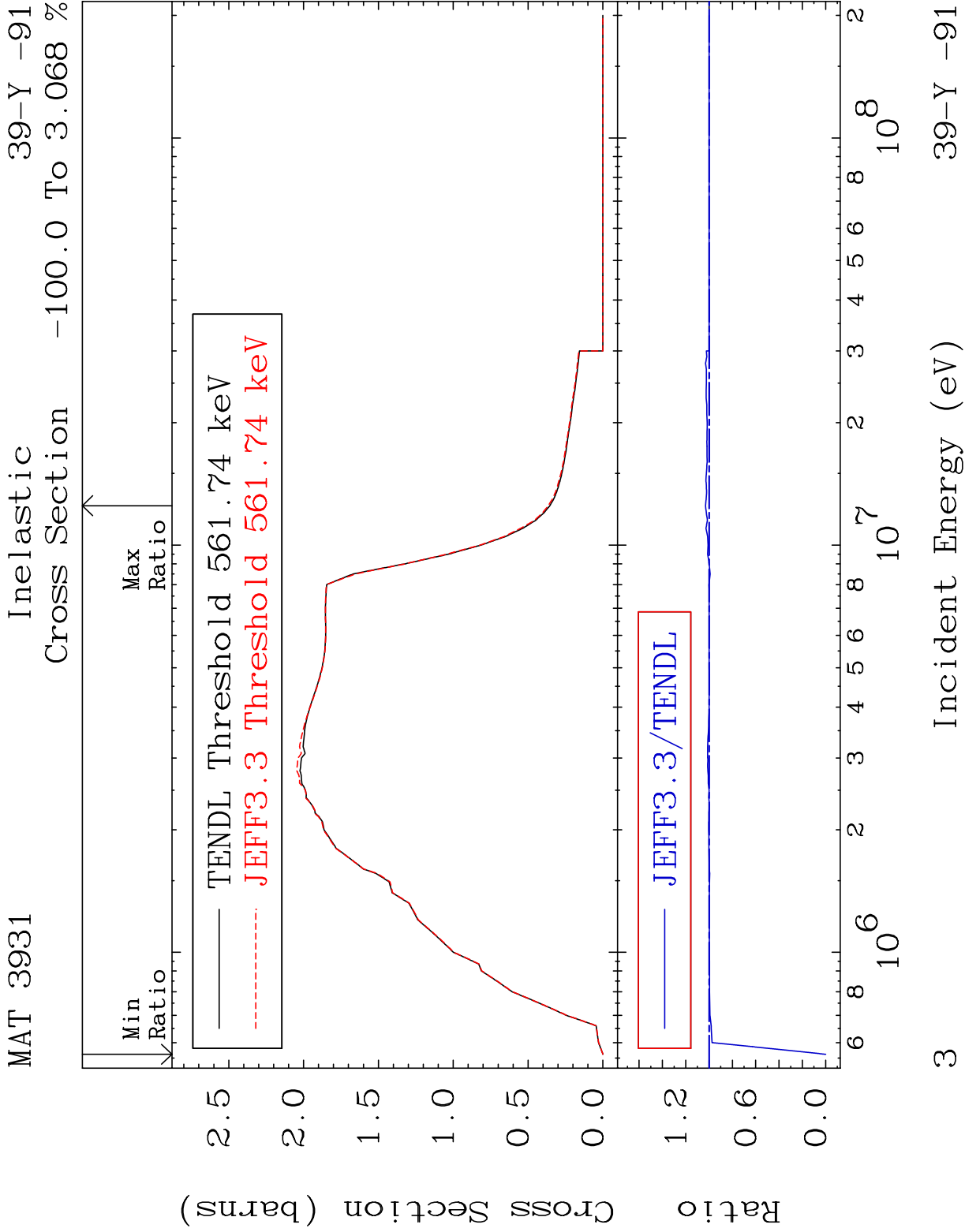
Elastic
Cross Section 39-Y -91
-99.97 To 9999. %

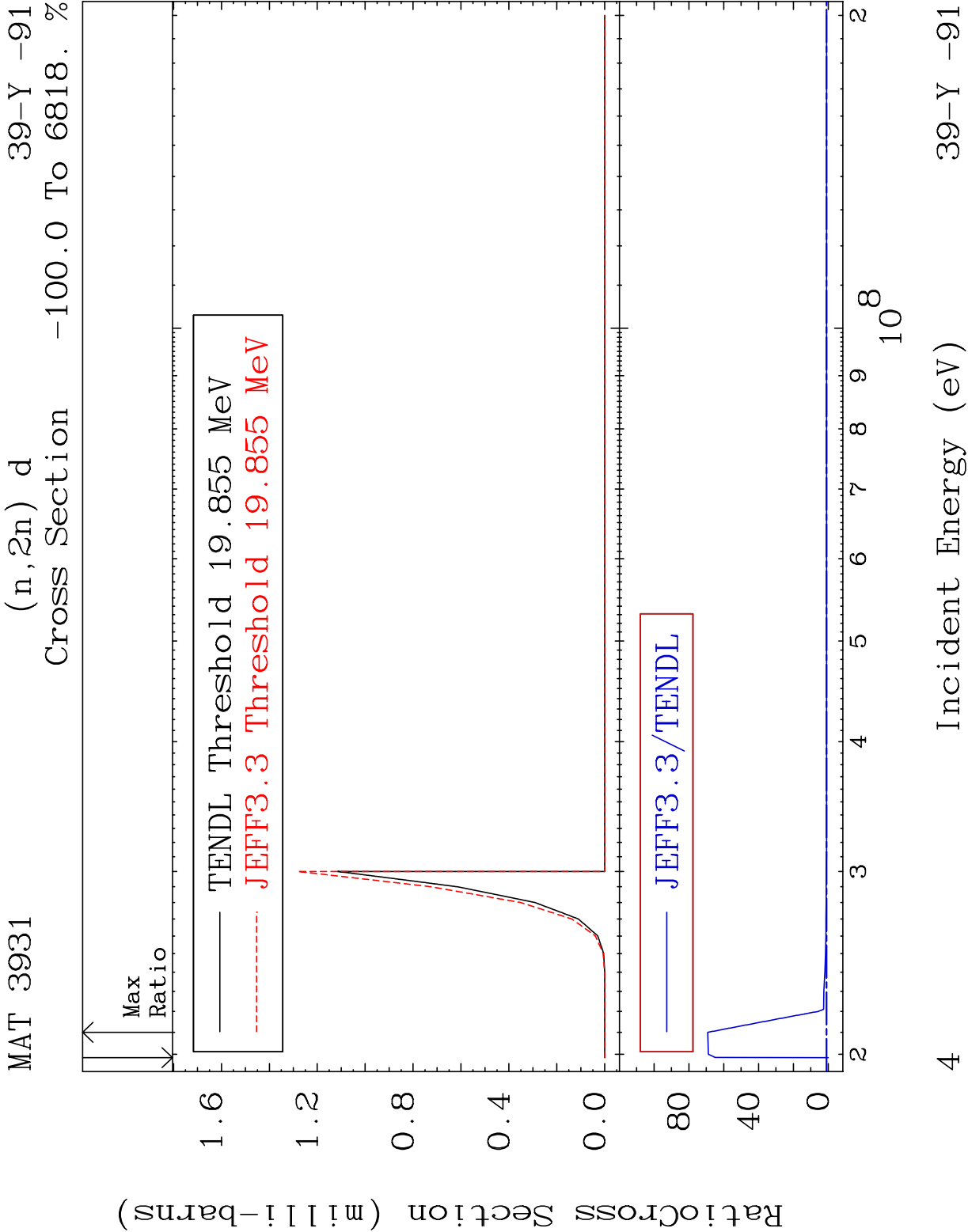


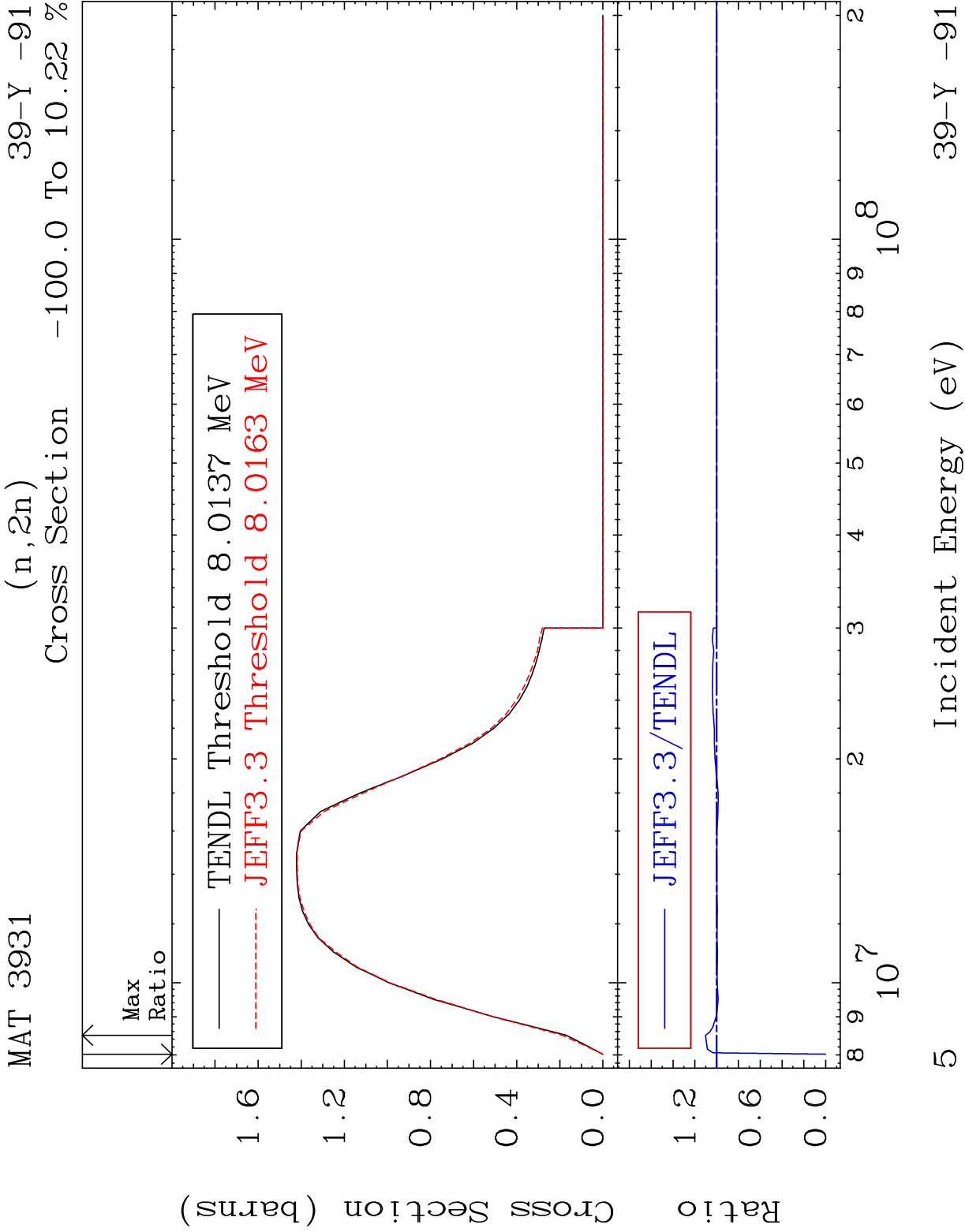
2

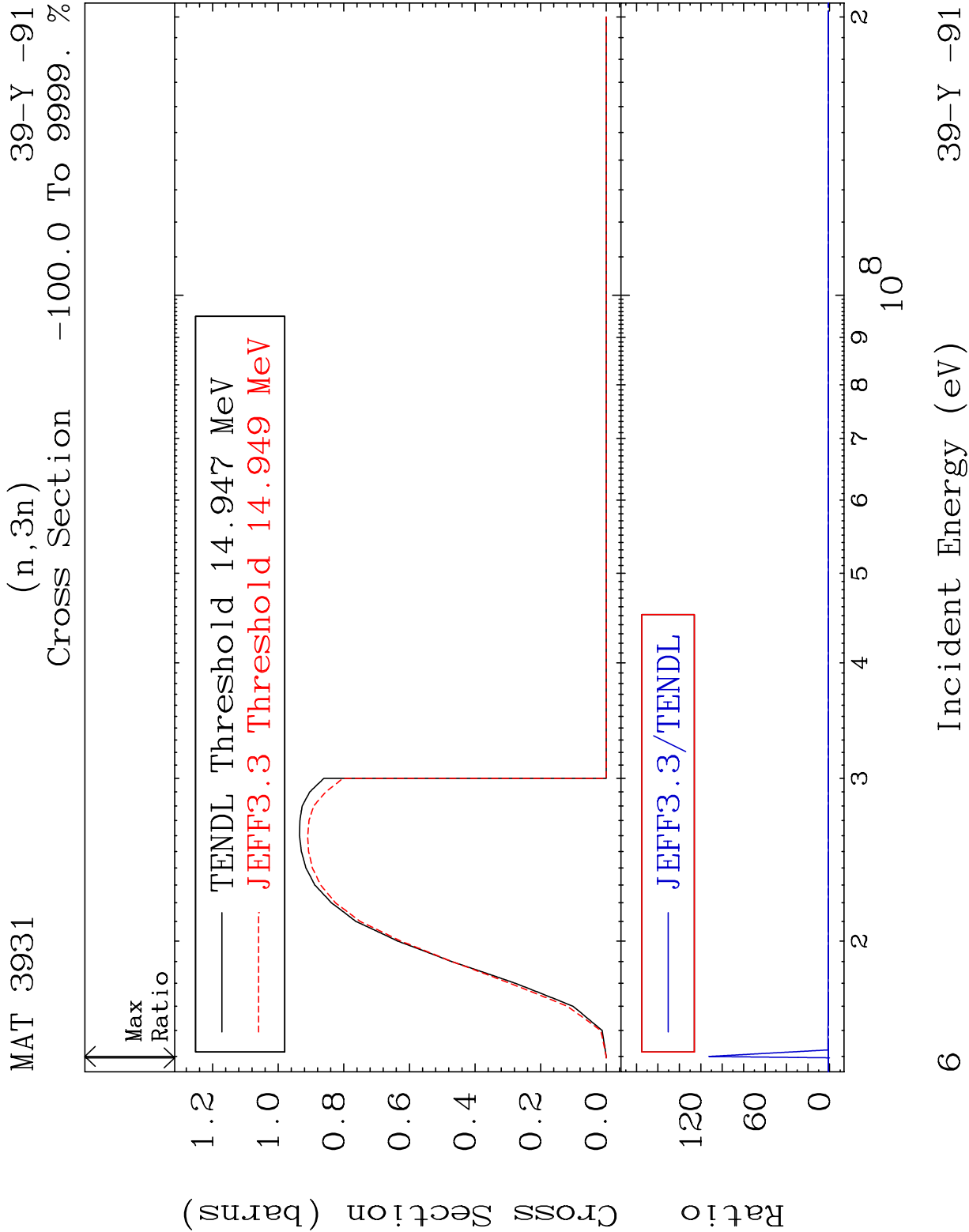
Incident Energy (eV)

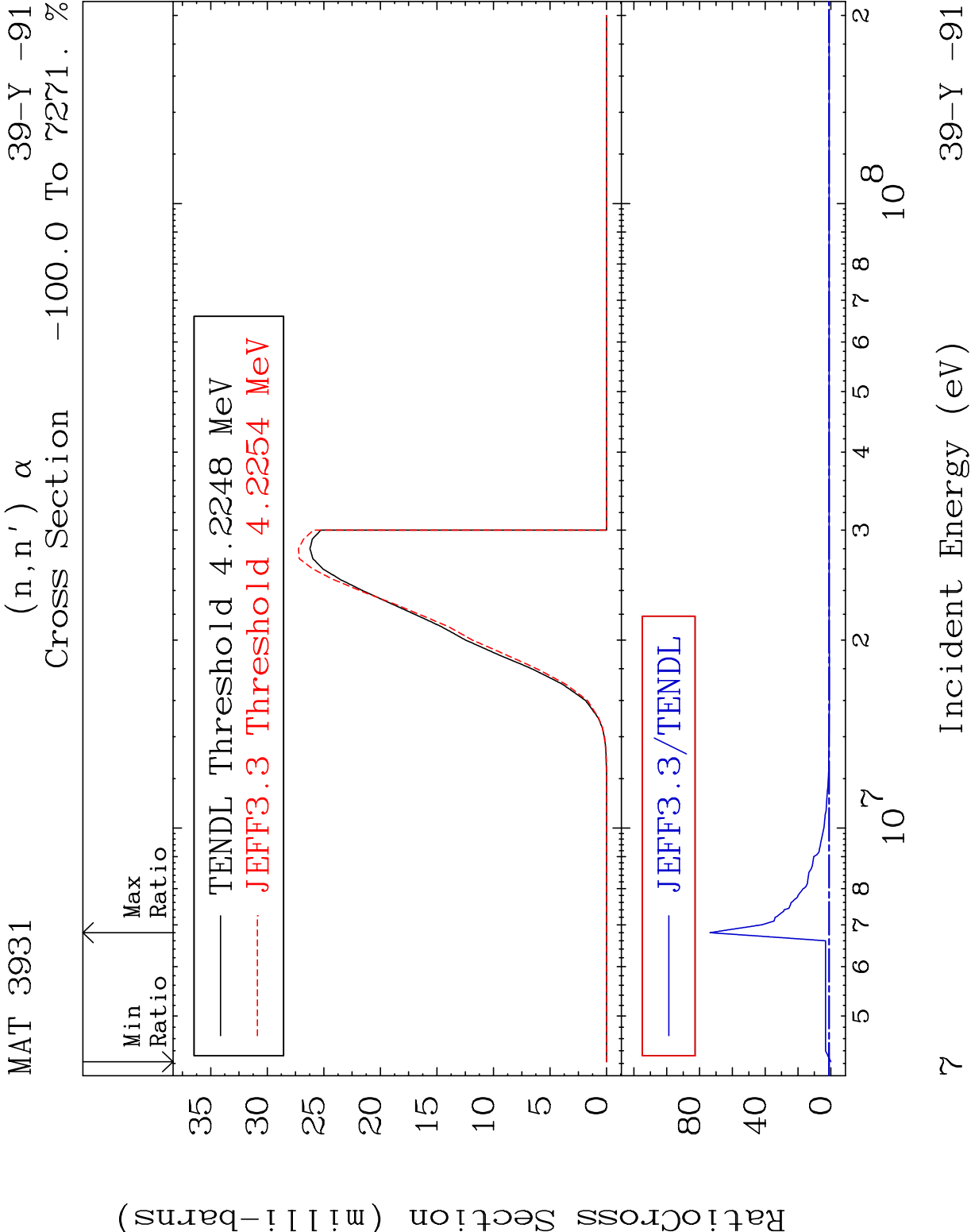
39-Y -91









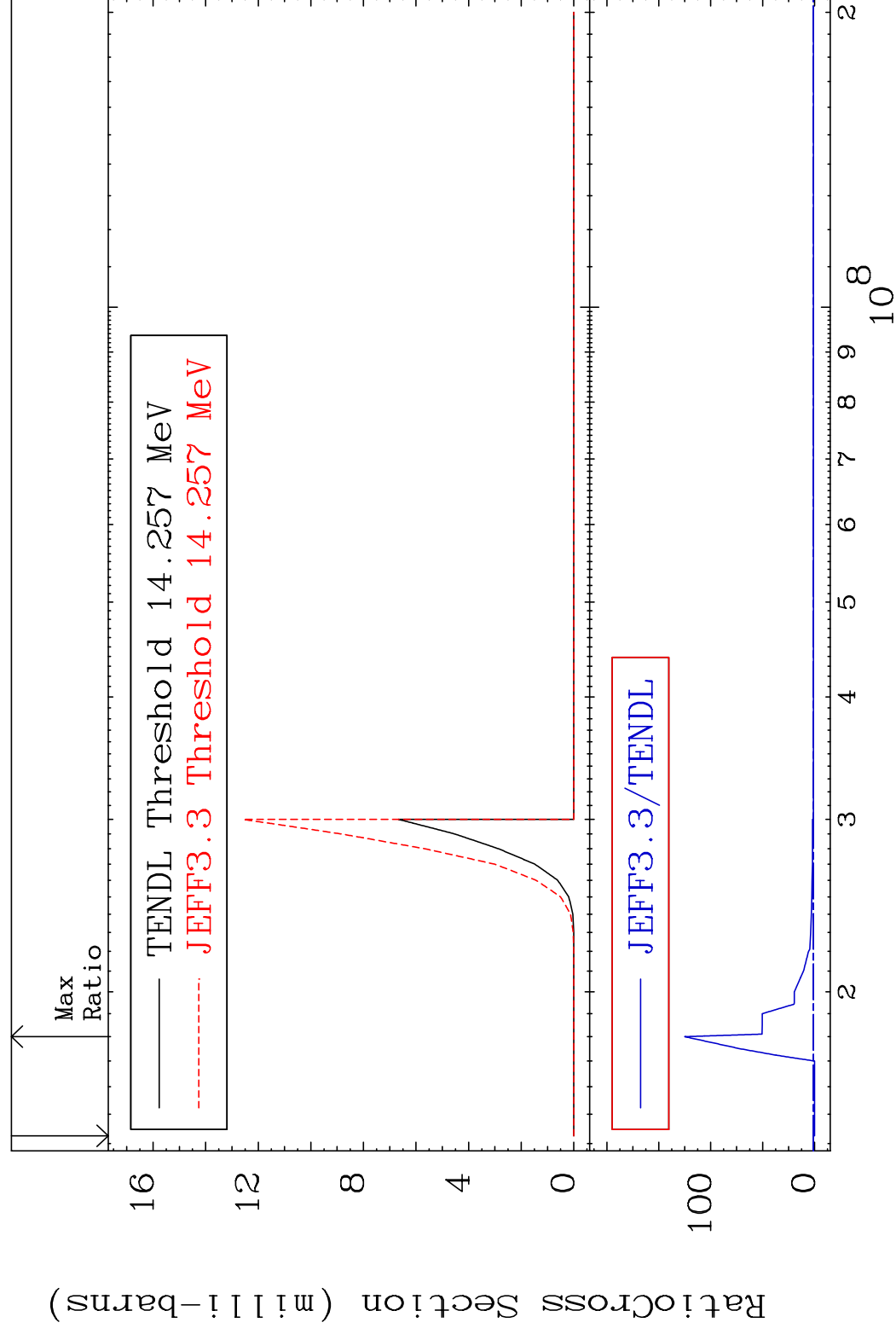


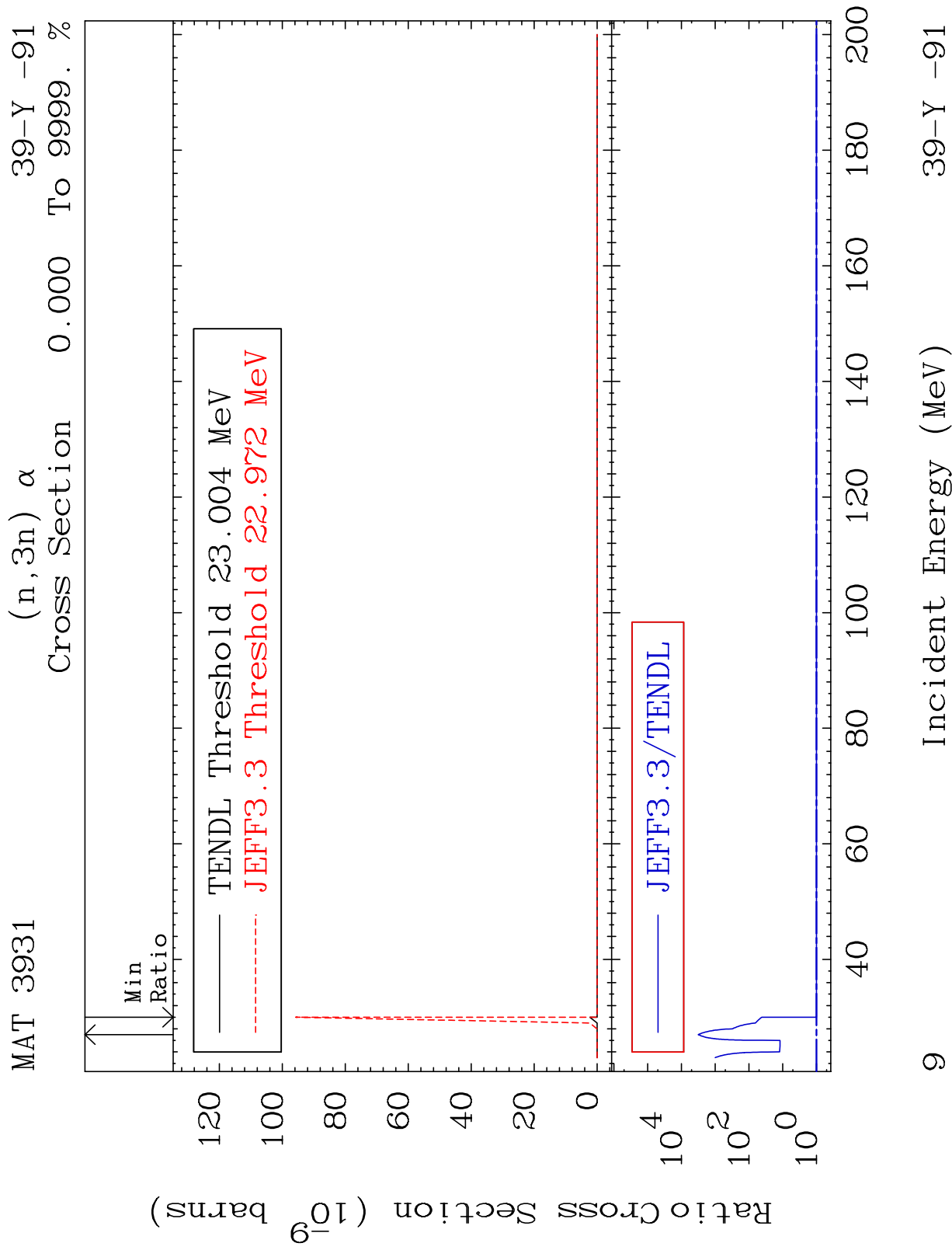
MAT 3931

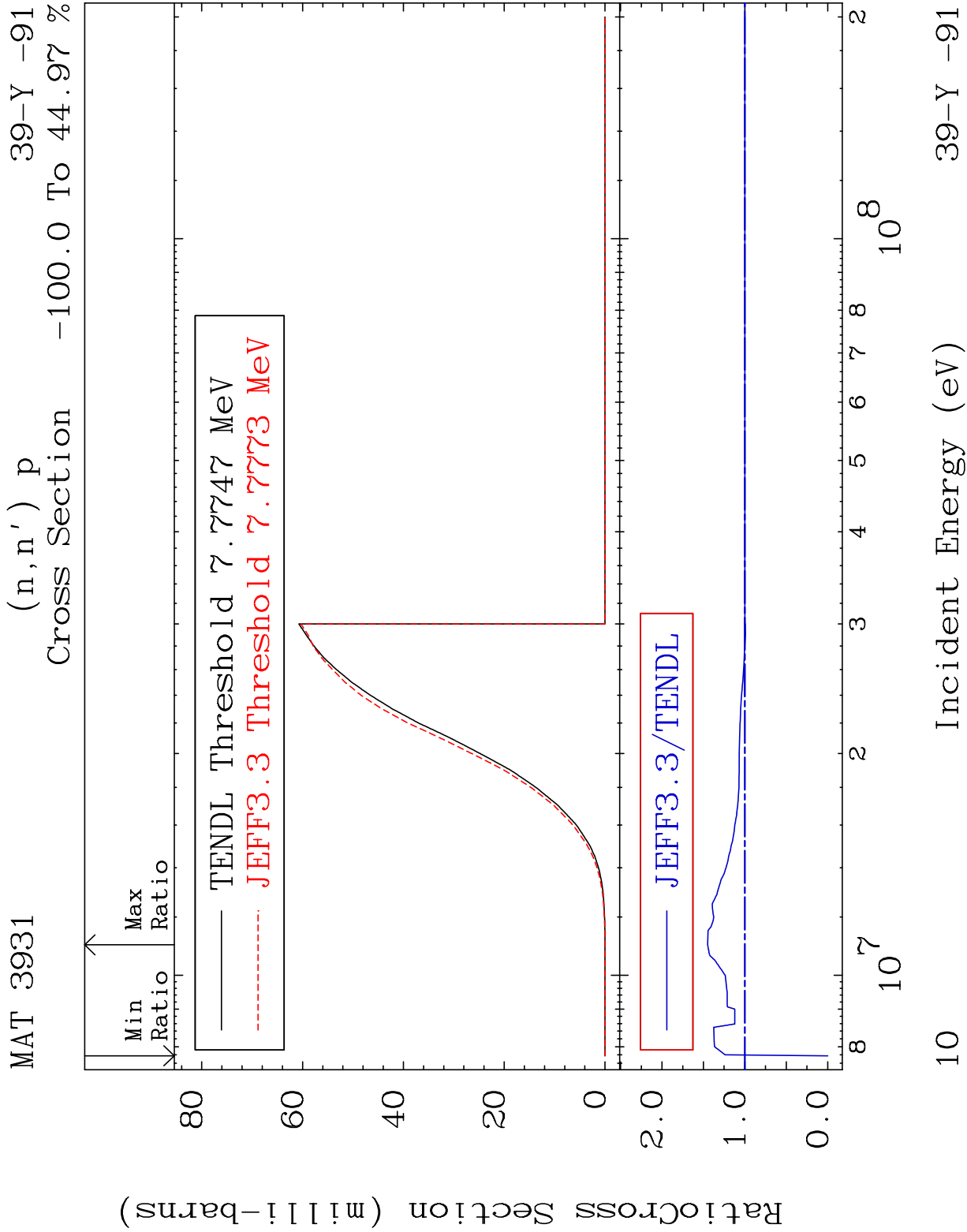
$$(n, 2n) \propto$$

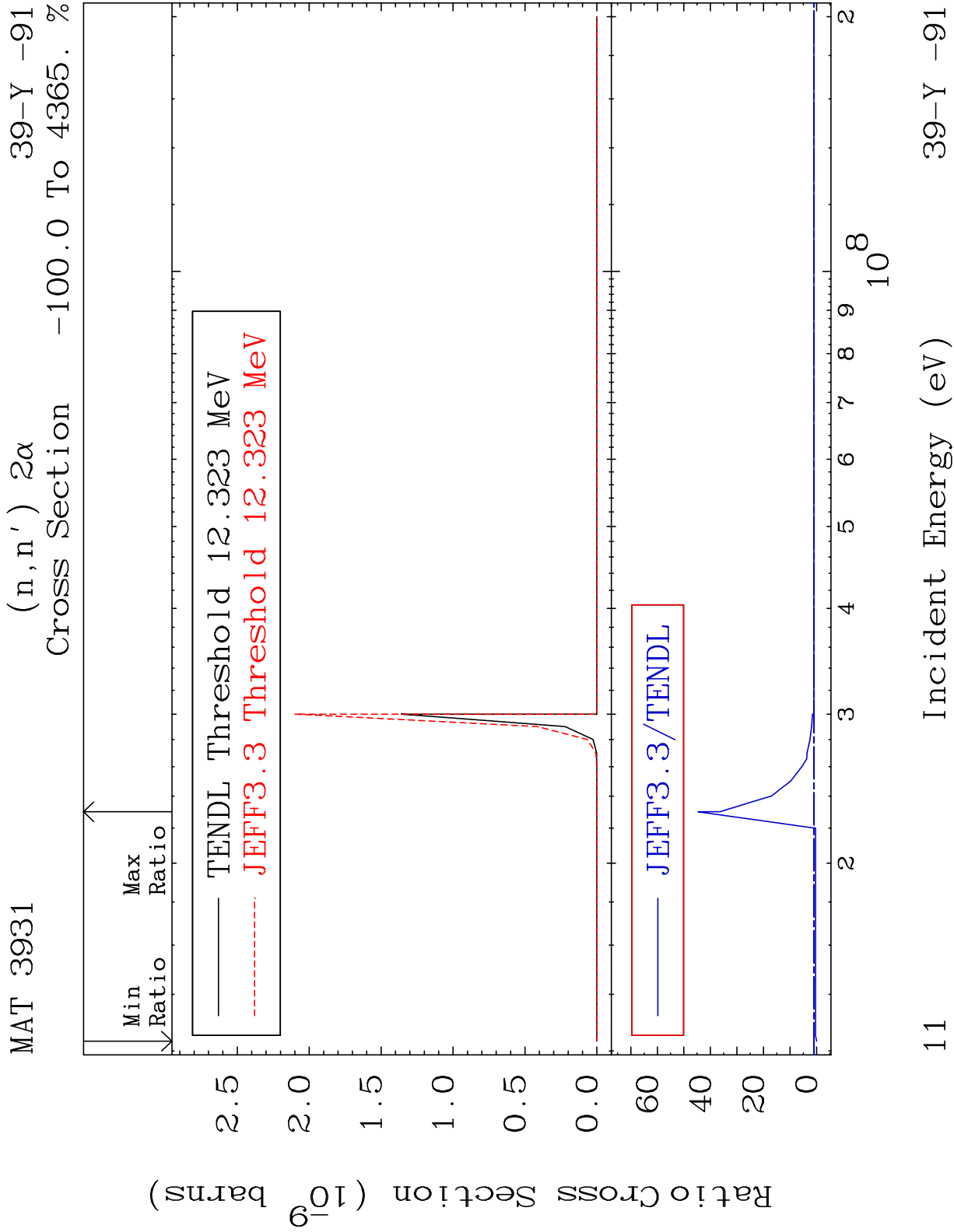
39-Y -91

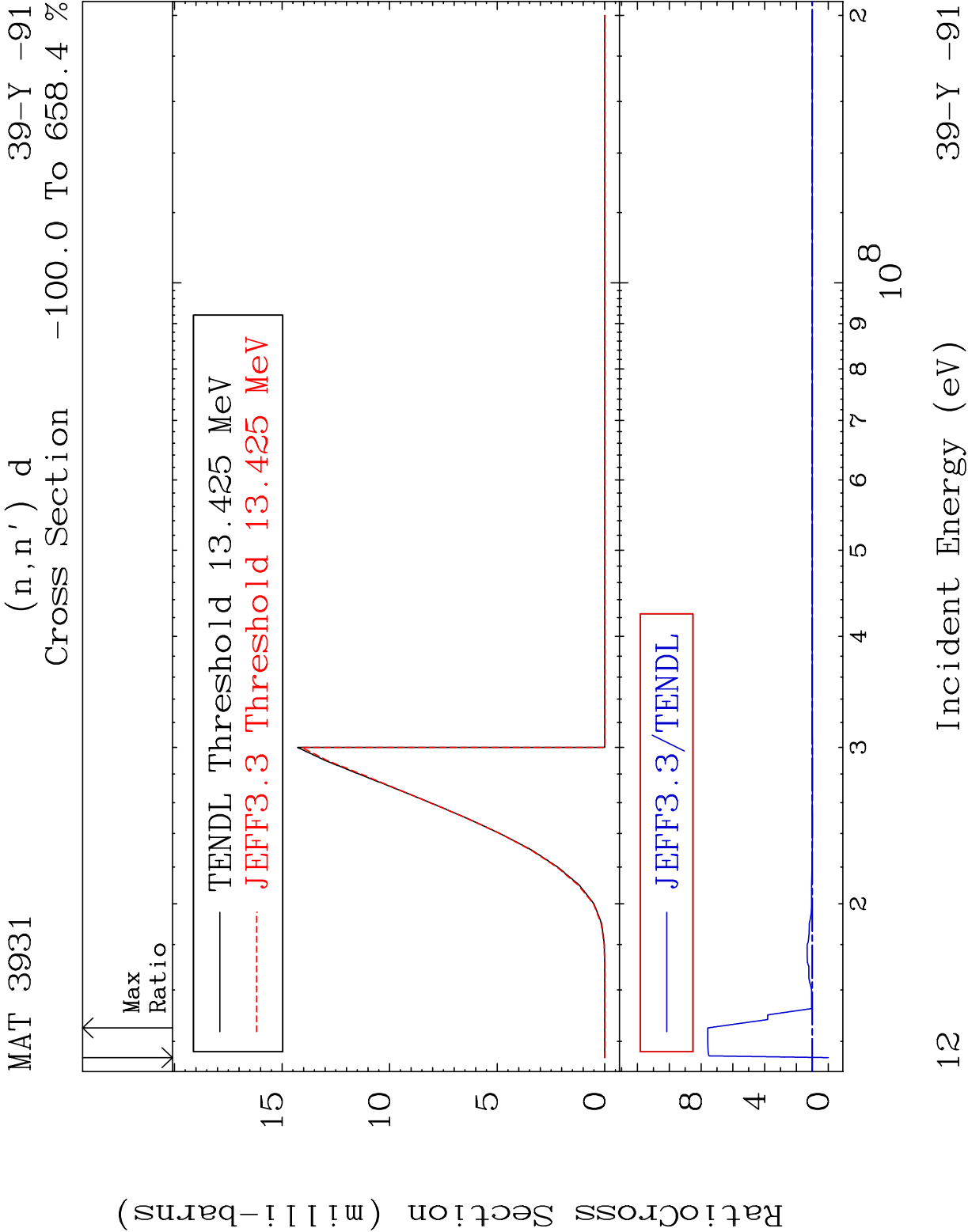
Cross Section -100.0 To 9999. %

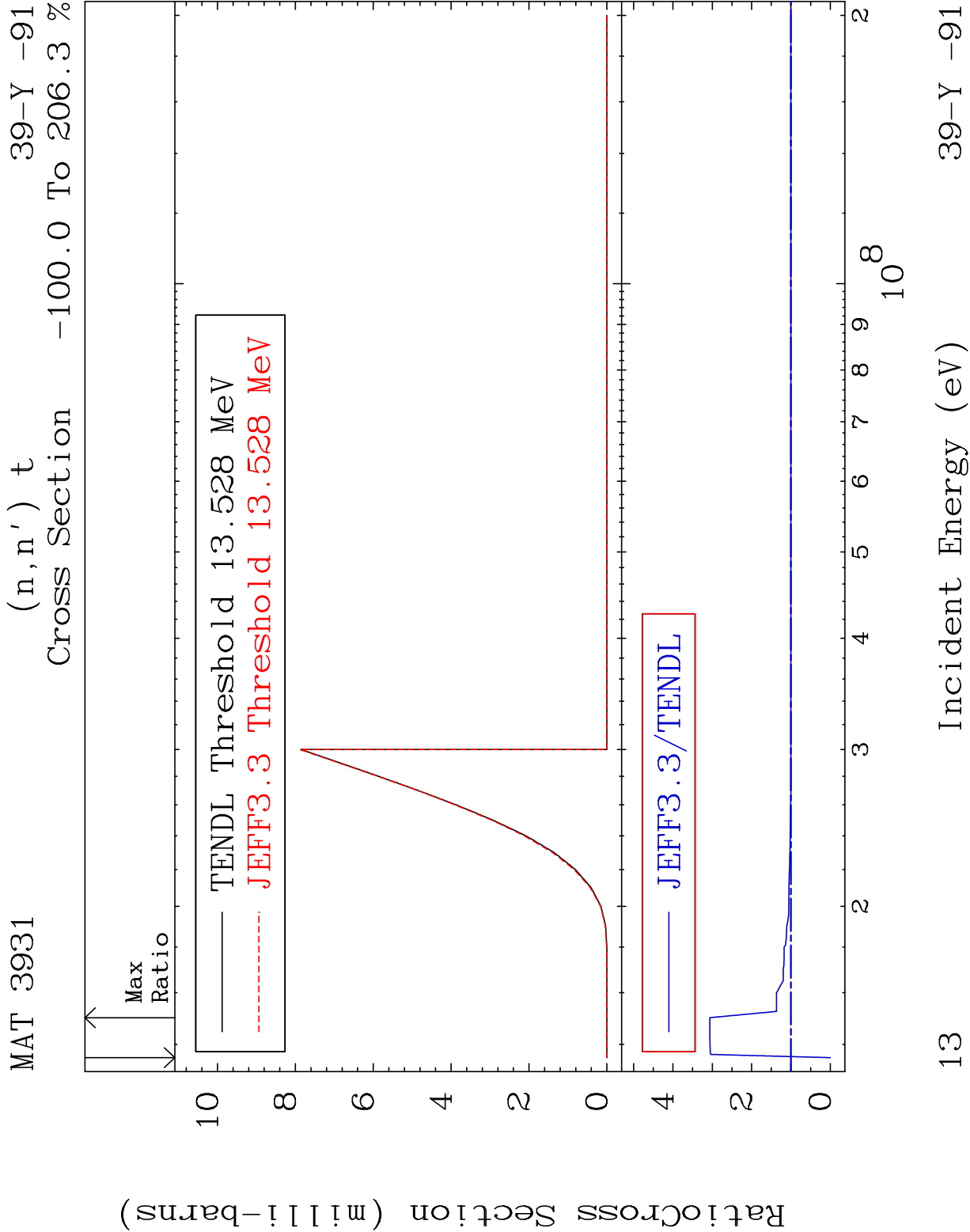


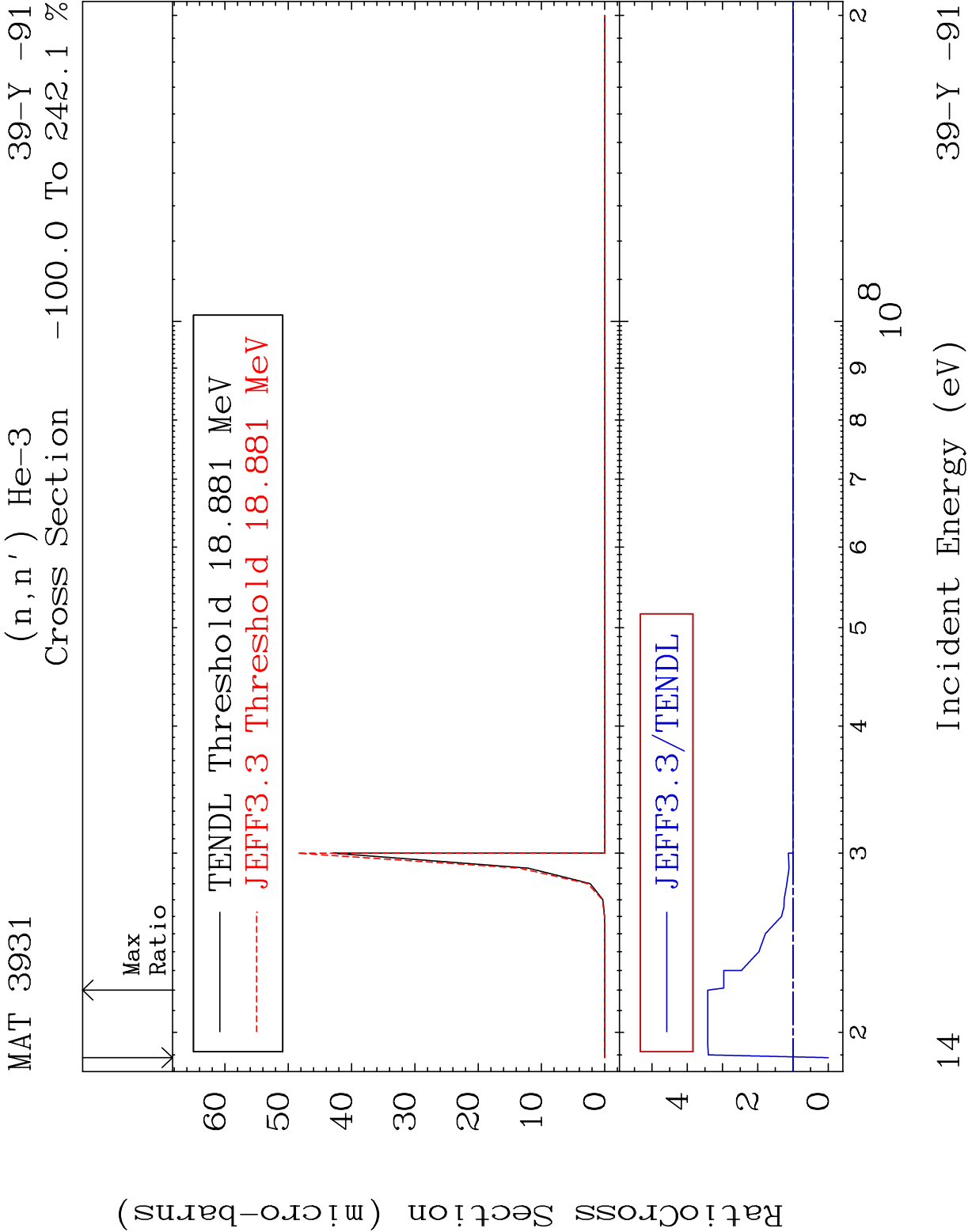


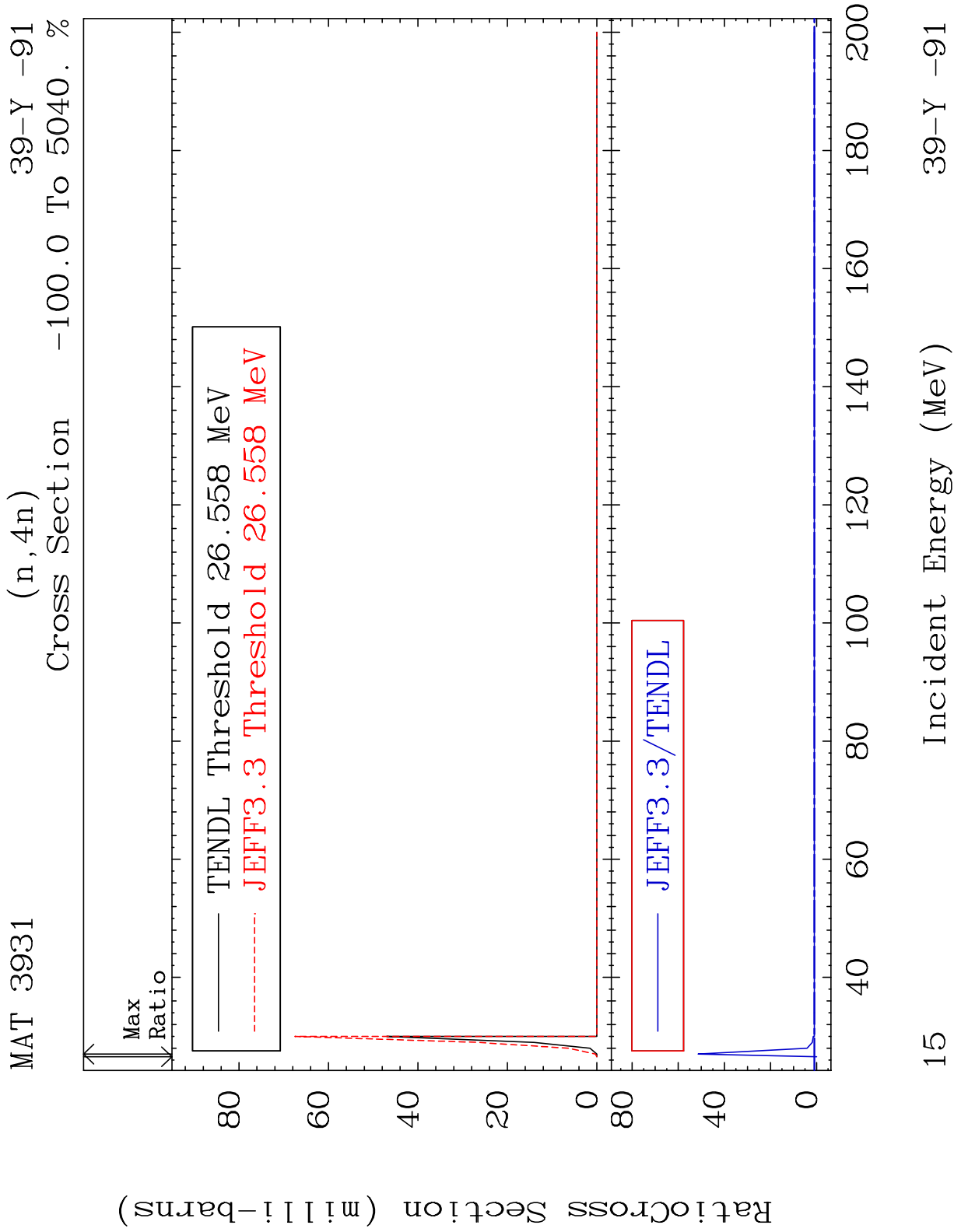


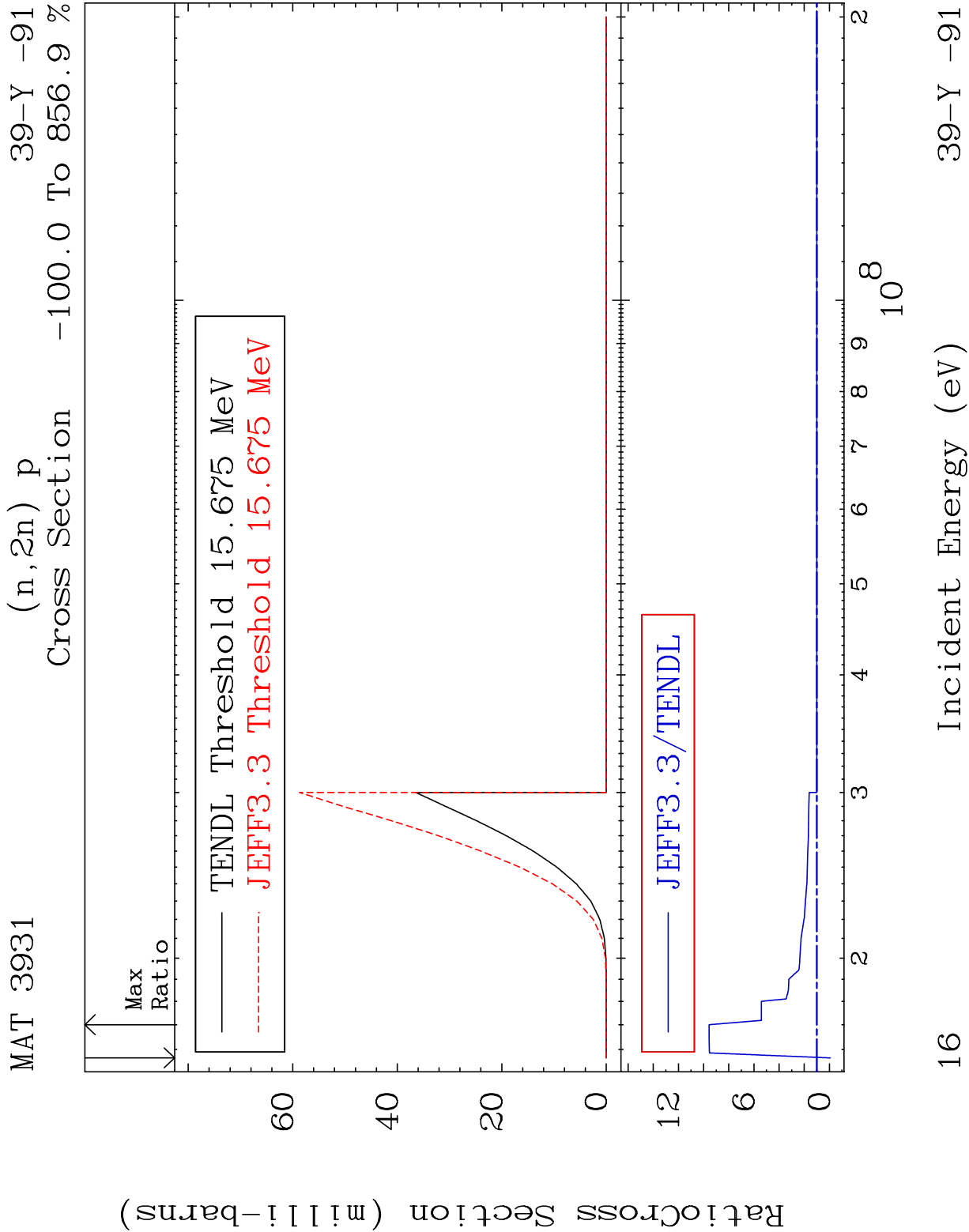


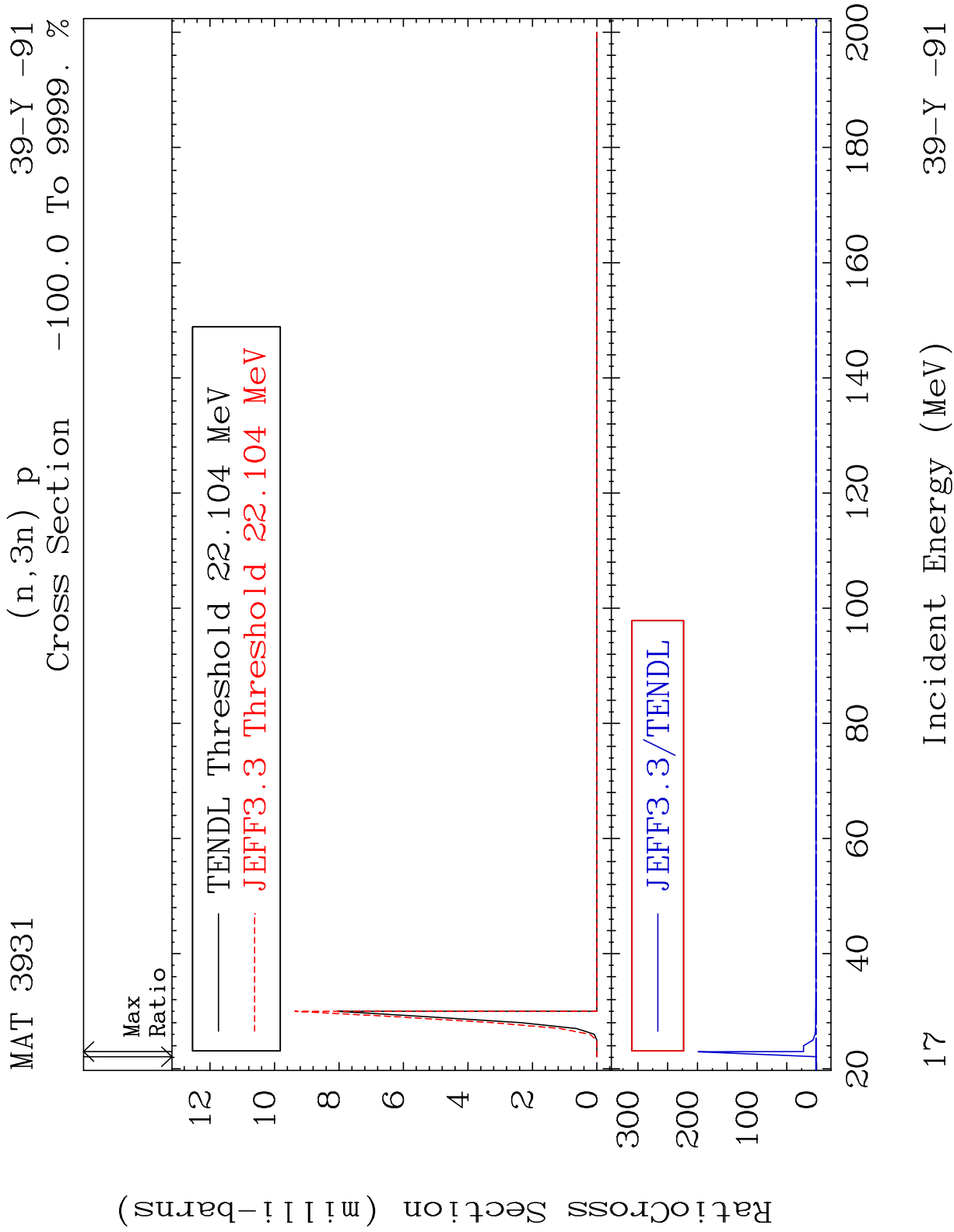


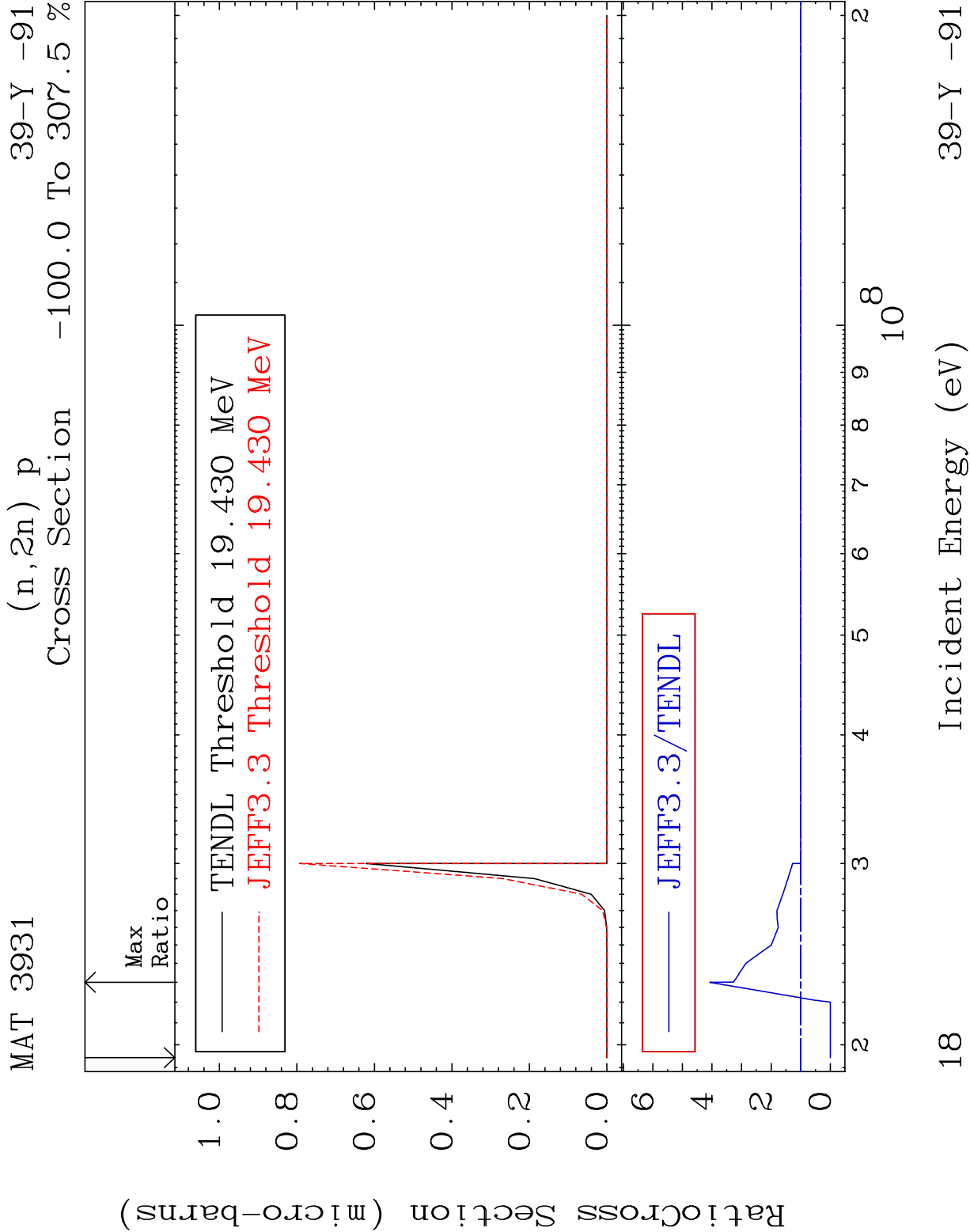


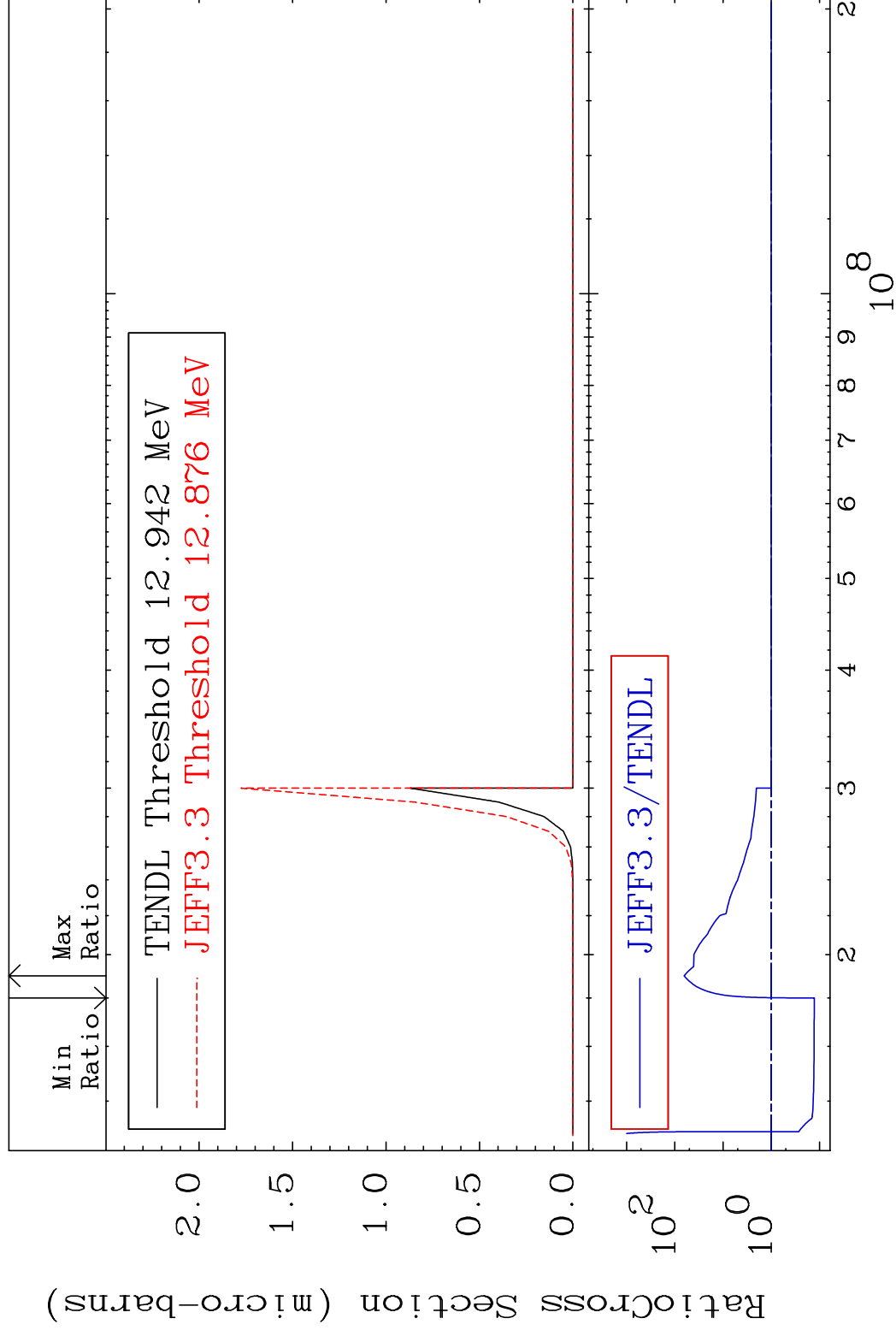




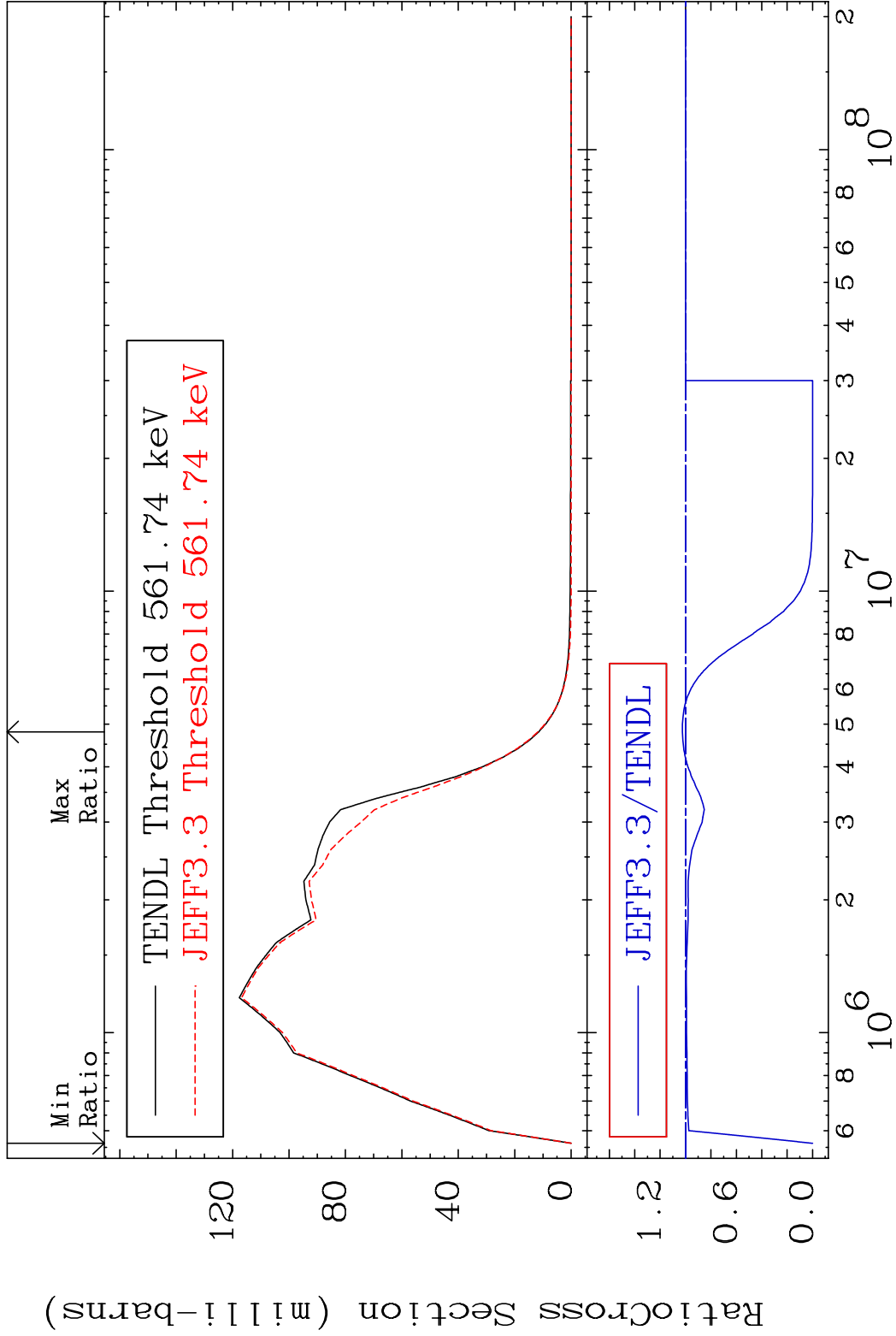




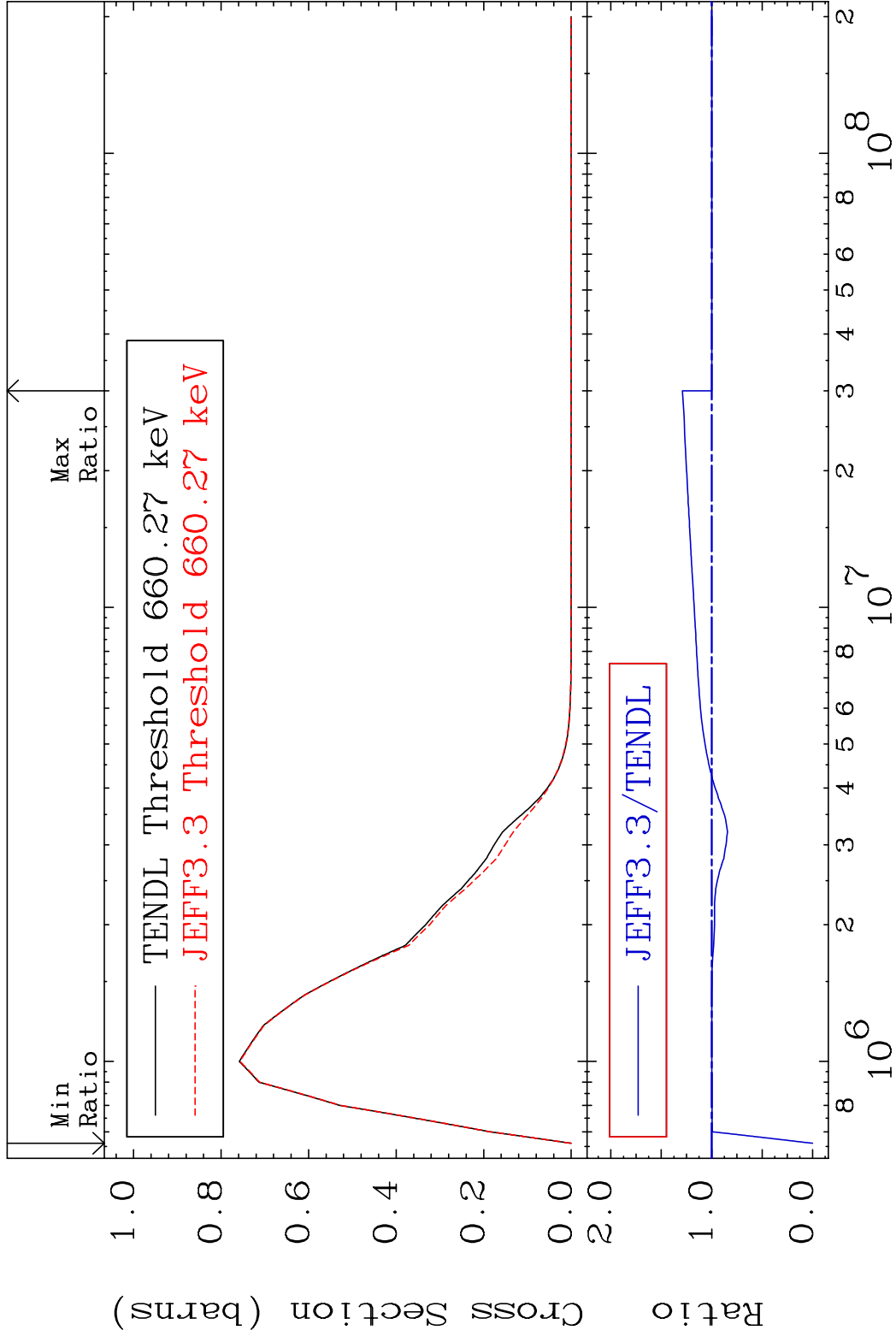




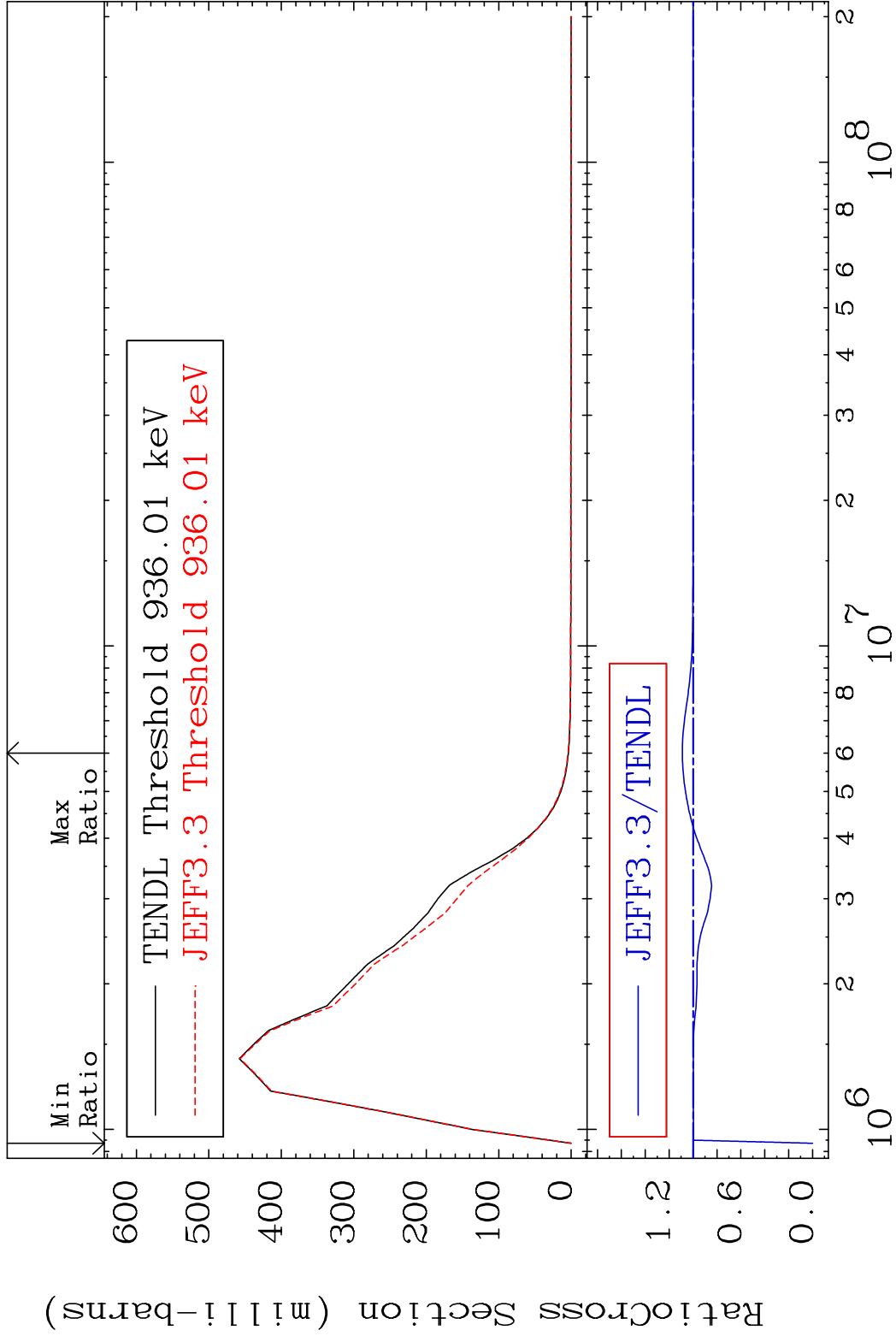
MAT 3931 MT= 51 (n,n') Level 39-Y -91
Cross Section -100.0 To 2.499 %



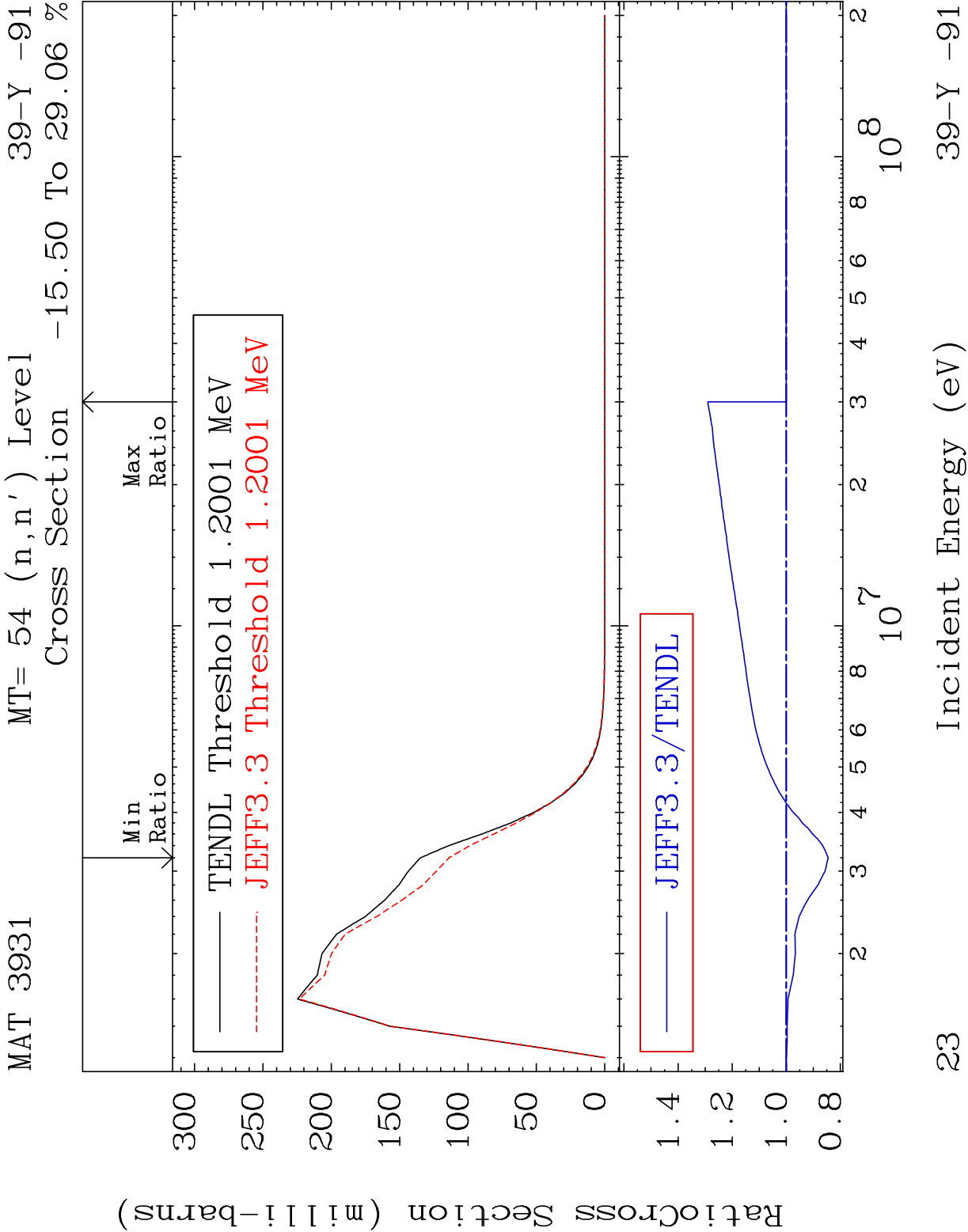
MAT 3931 MT= 52 (n,n') Level 39-Y -91
 Cross Section -100.0 To 29.10 %



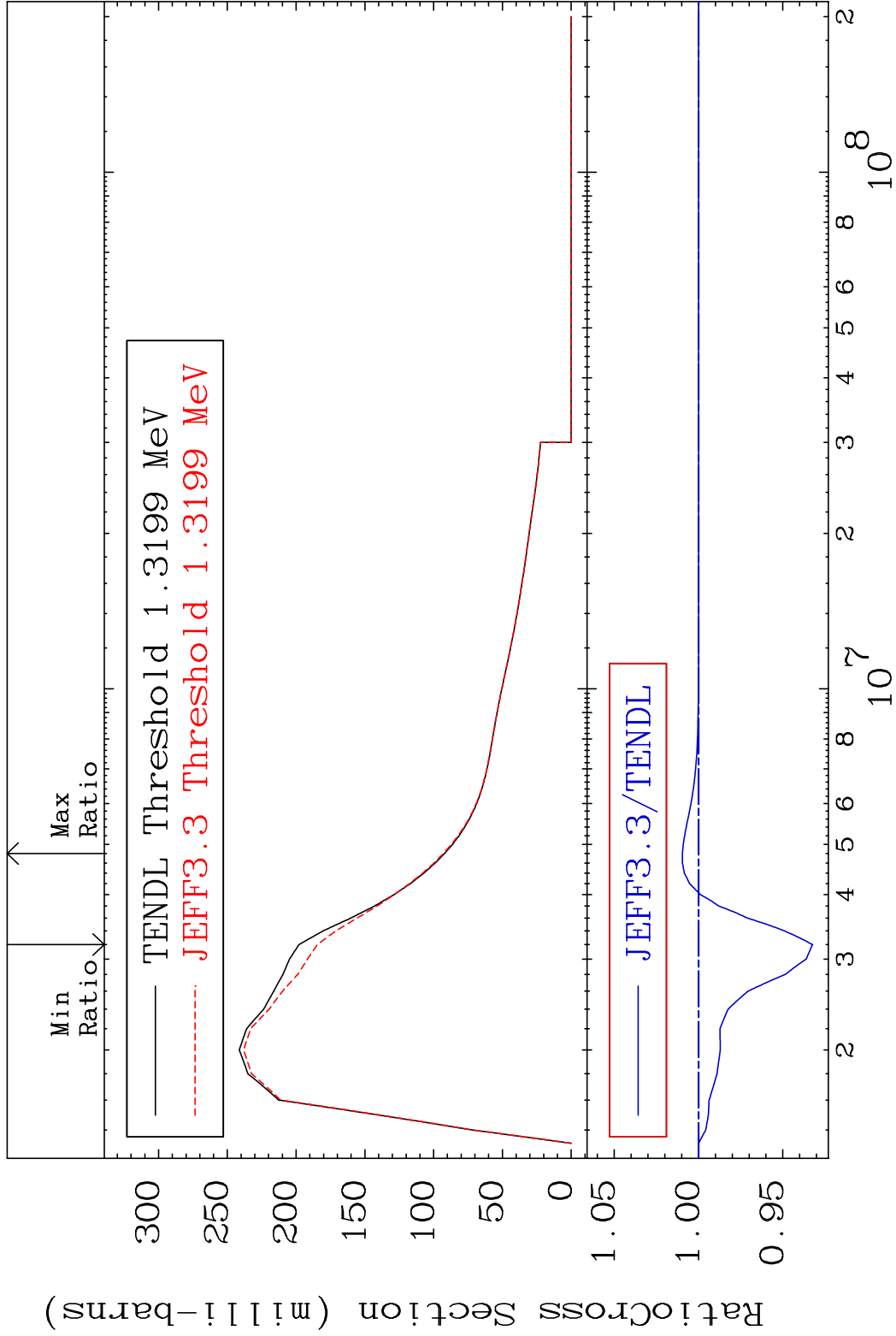
MAT 3931 MT= 53 (n,n') Level 39-Y -91
Cross Section -100.0 To 8.951 %



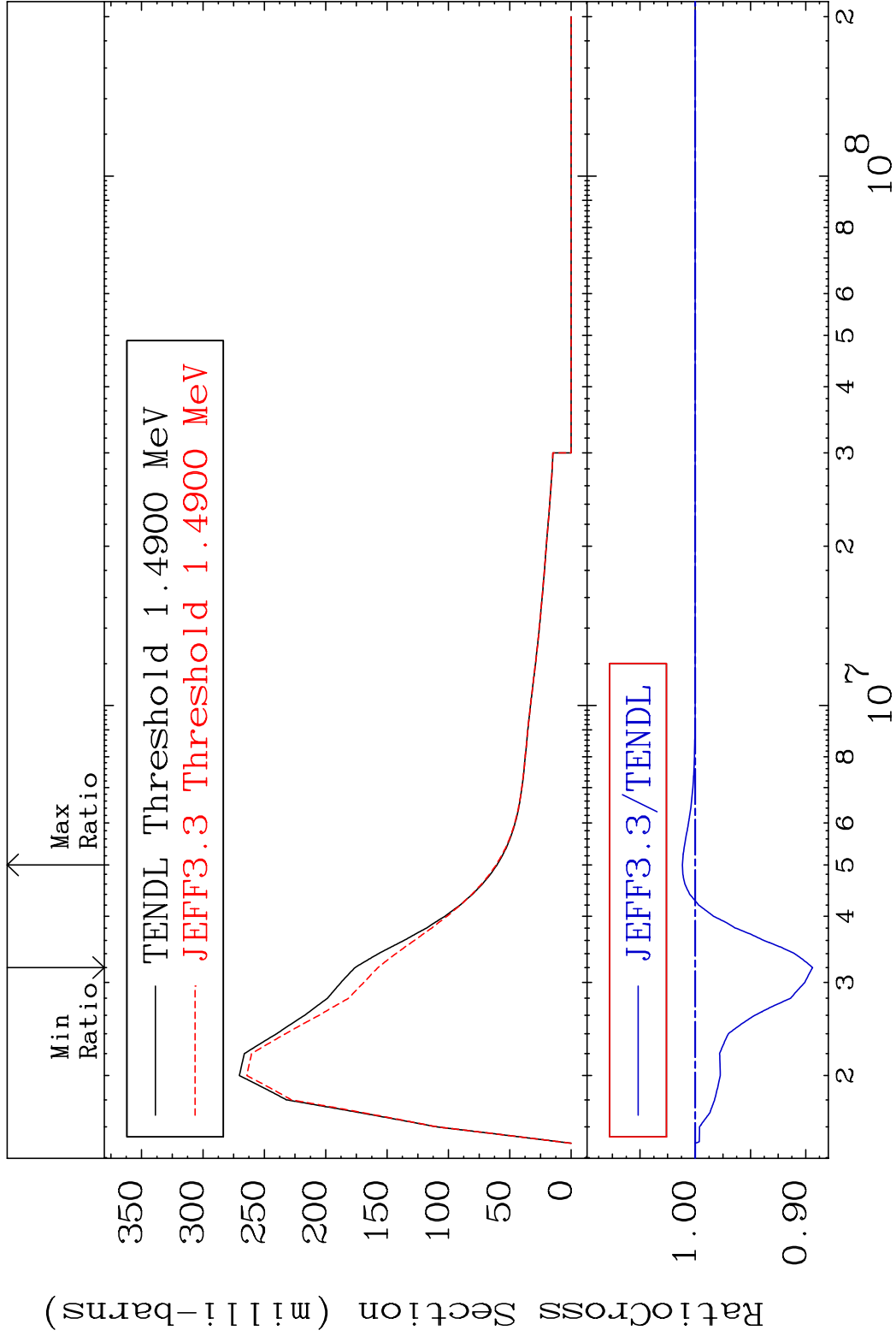
22 Incident Energy (eV) 39-Y -91

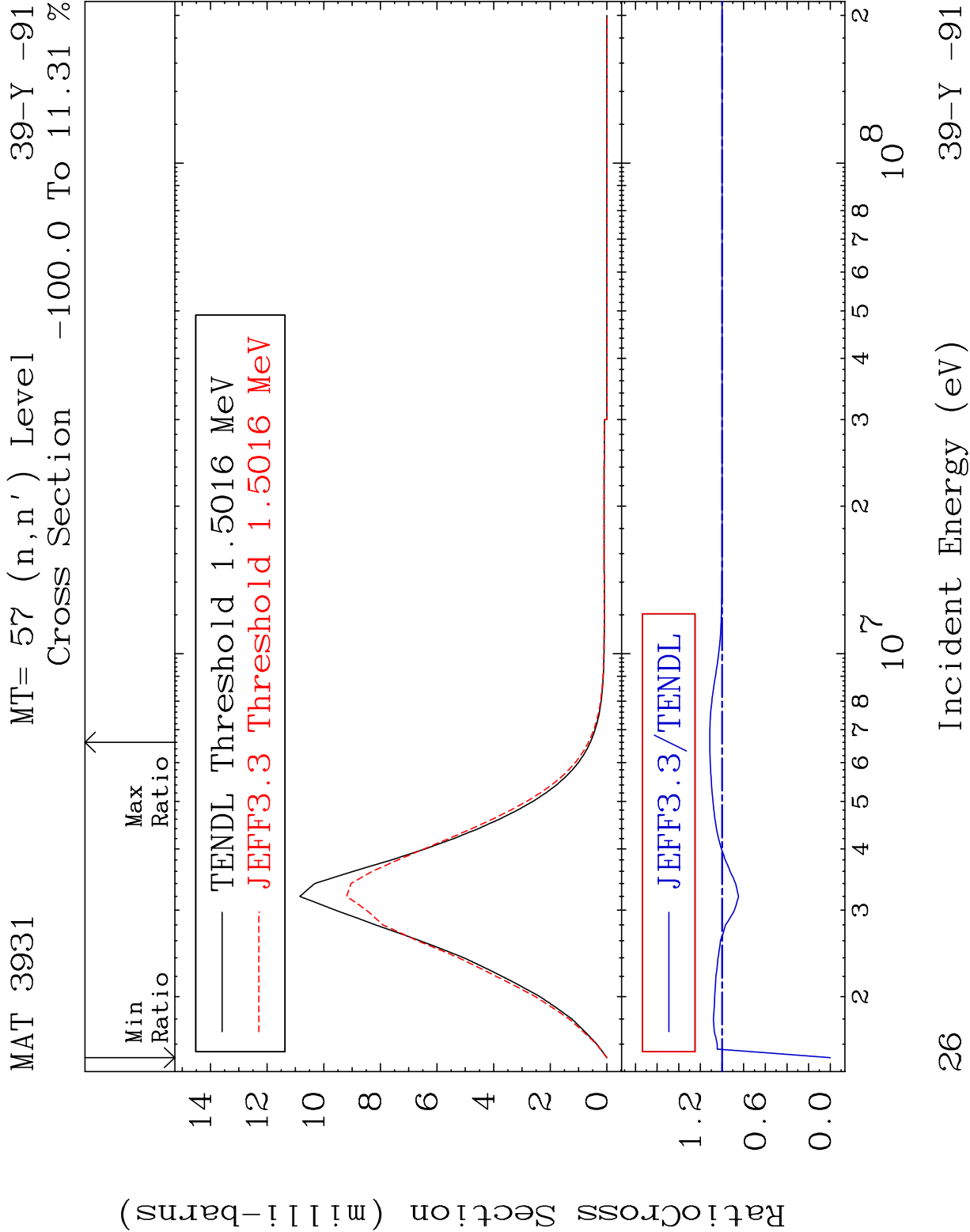


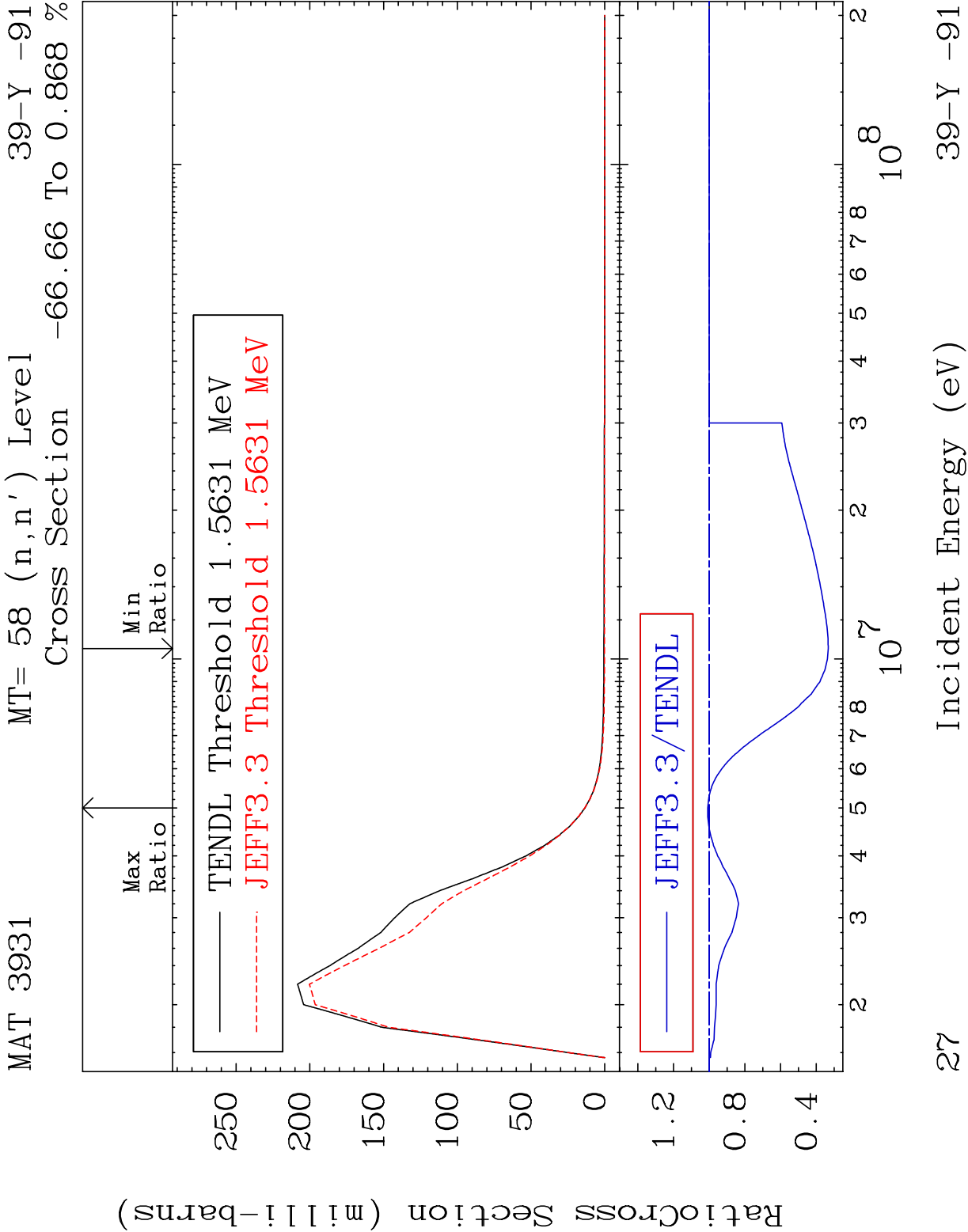
MAT 3931 MT= 55 (n,n') Level 39-Y -91
Cross Section -6.763 To 0.959 %



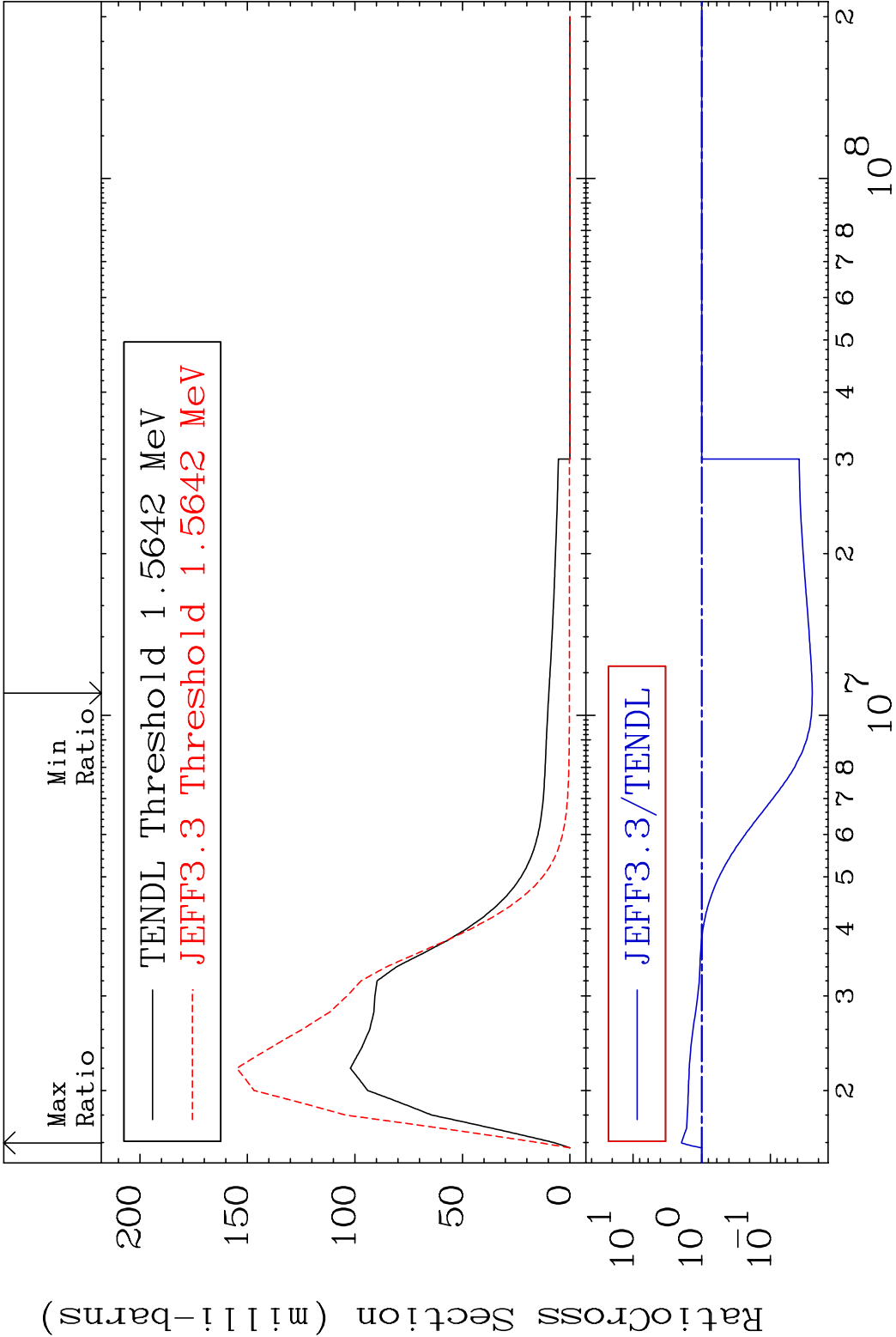
MAT 3931 MT= 56 (n,n') Level 39-Y -91
Cross Section -10.62 To 1.169 %



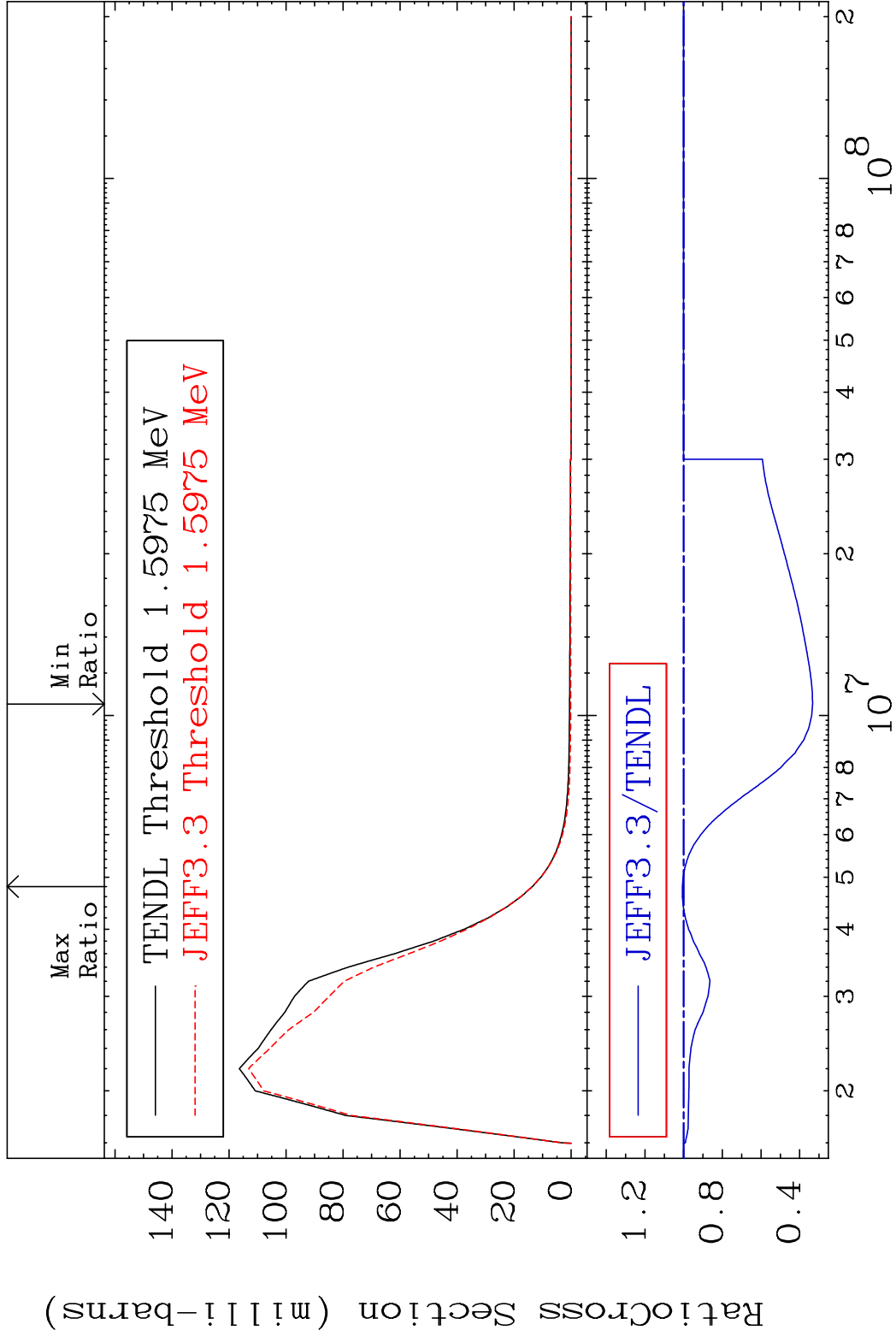




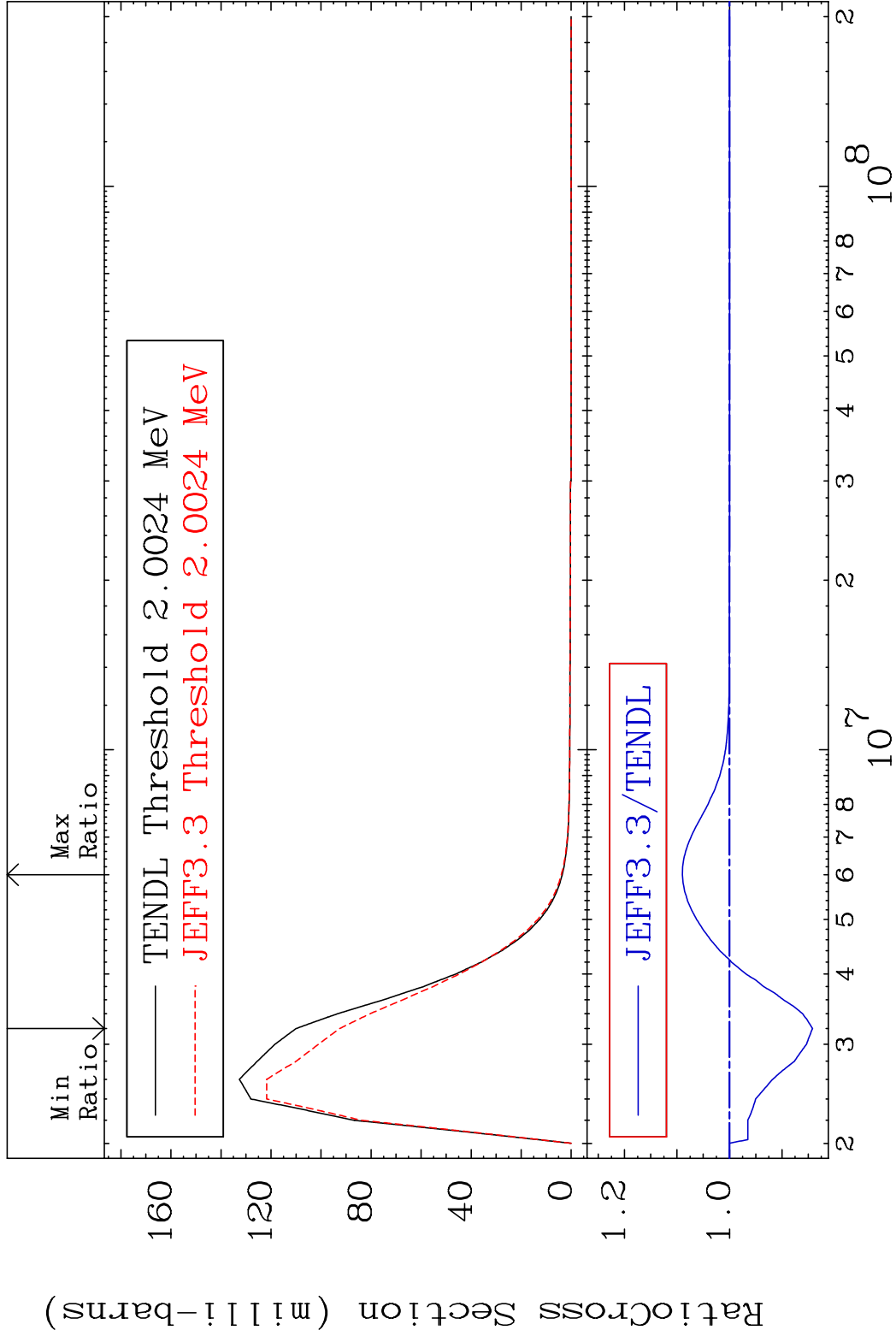
MAT 3931 MT= 59 (n,n') Level 39-Y -91
 Cross Section -97.54 To 96.29 %



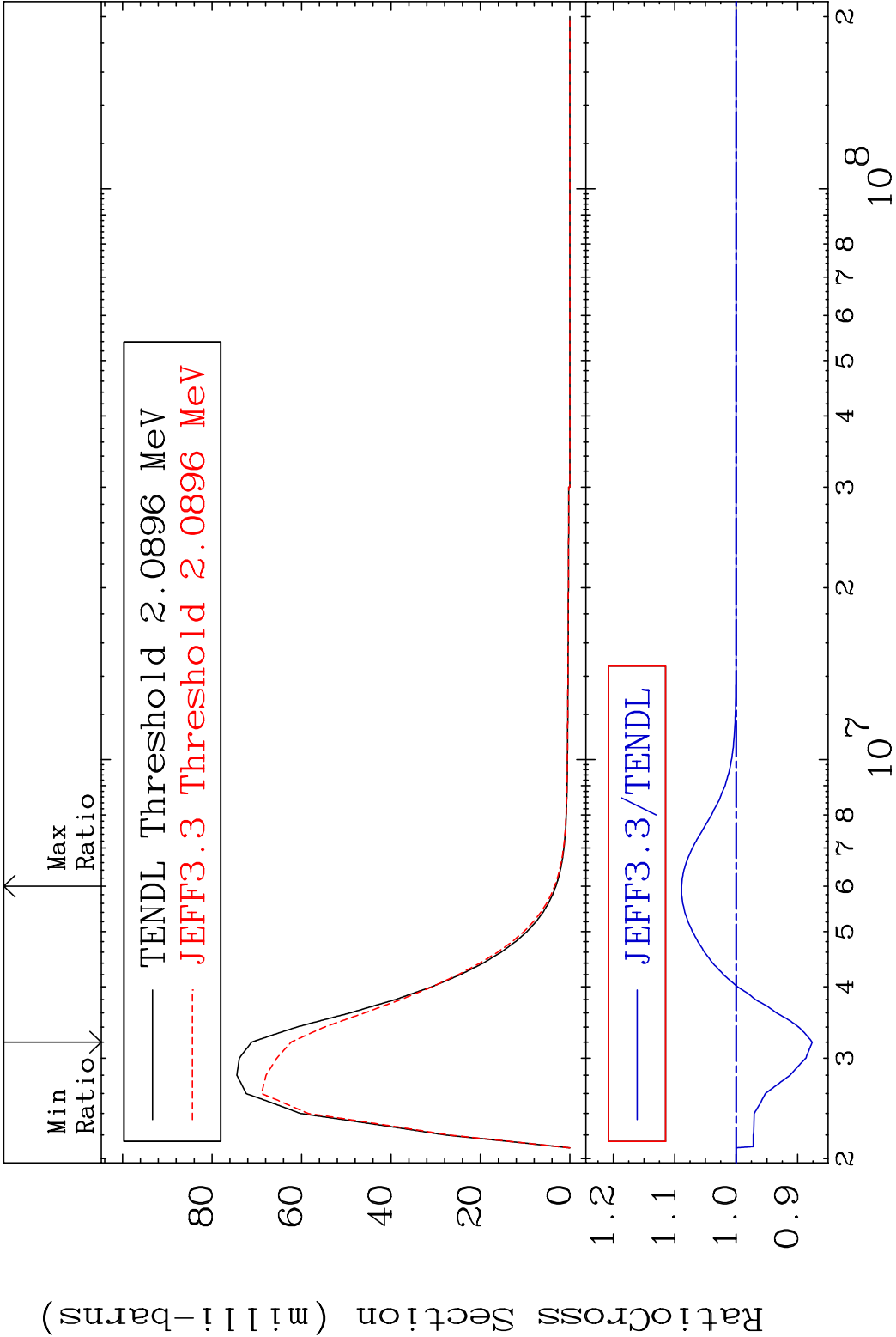
MAT 3931 MT= 60 (n,n') Level 39-Y -91
Cross Section -66.64 To 0.662 %



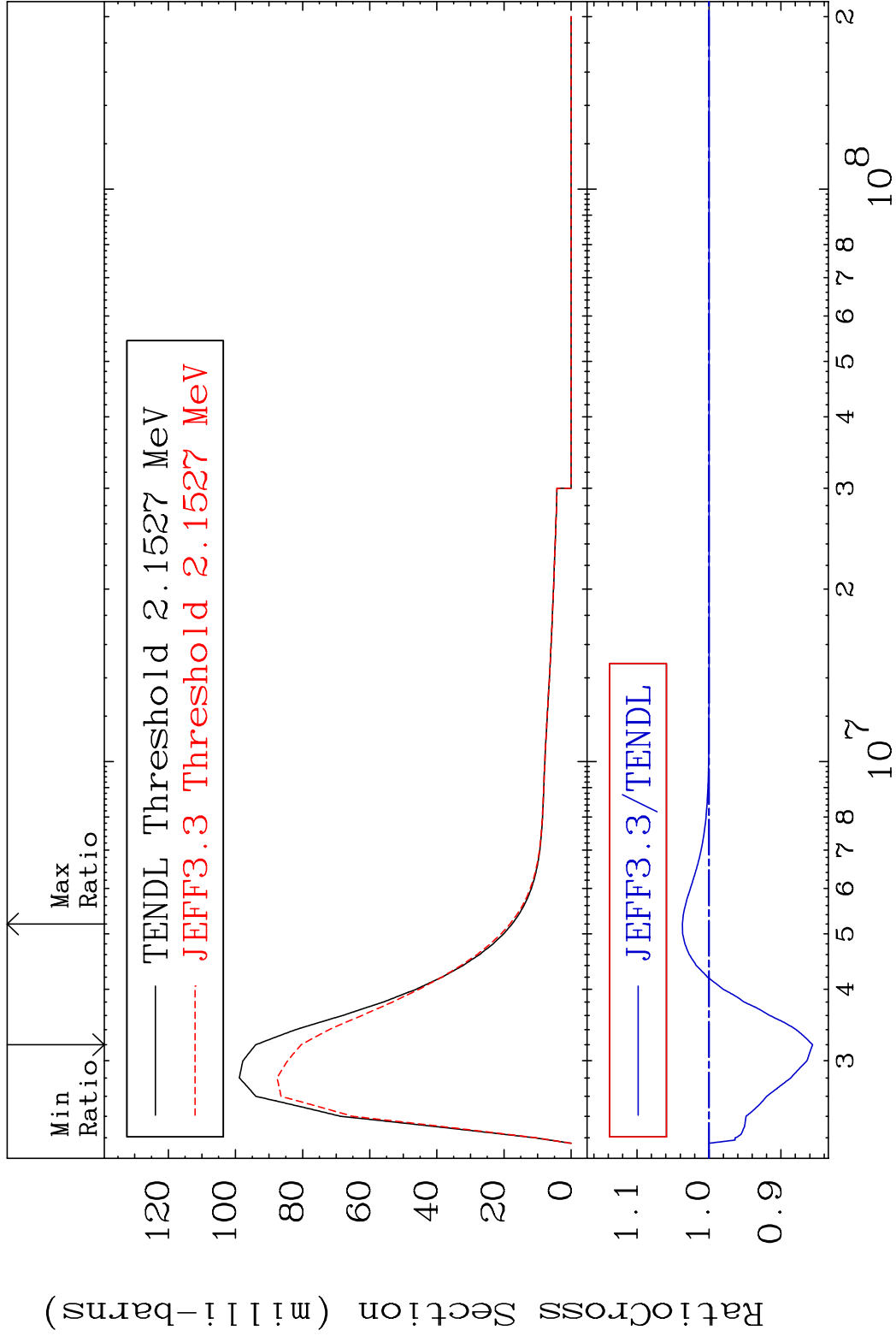
MAT 3931 MT= 61 (n,n') Level 39-Y -91
Cross Section -15.84 To 8.983 %



30 Incident Energy (eV) 39-Y -91



MAT 3931 MT= 63 (n,n') Level 39-Y -91
Cross Section -14.39 To 3.704 %



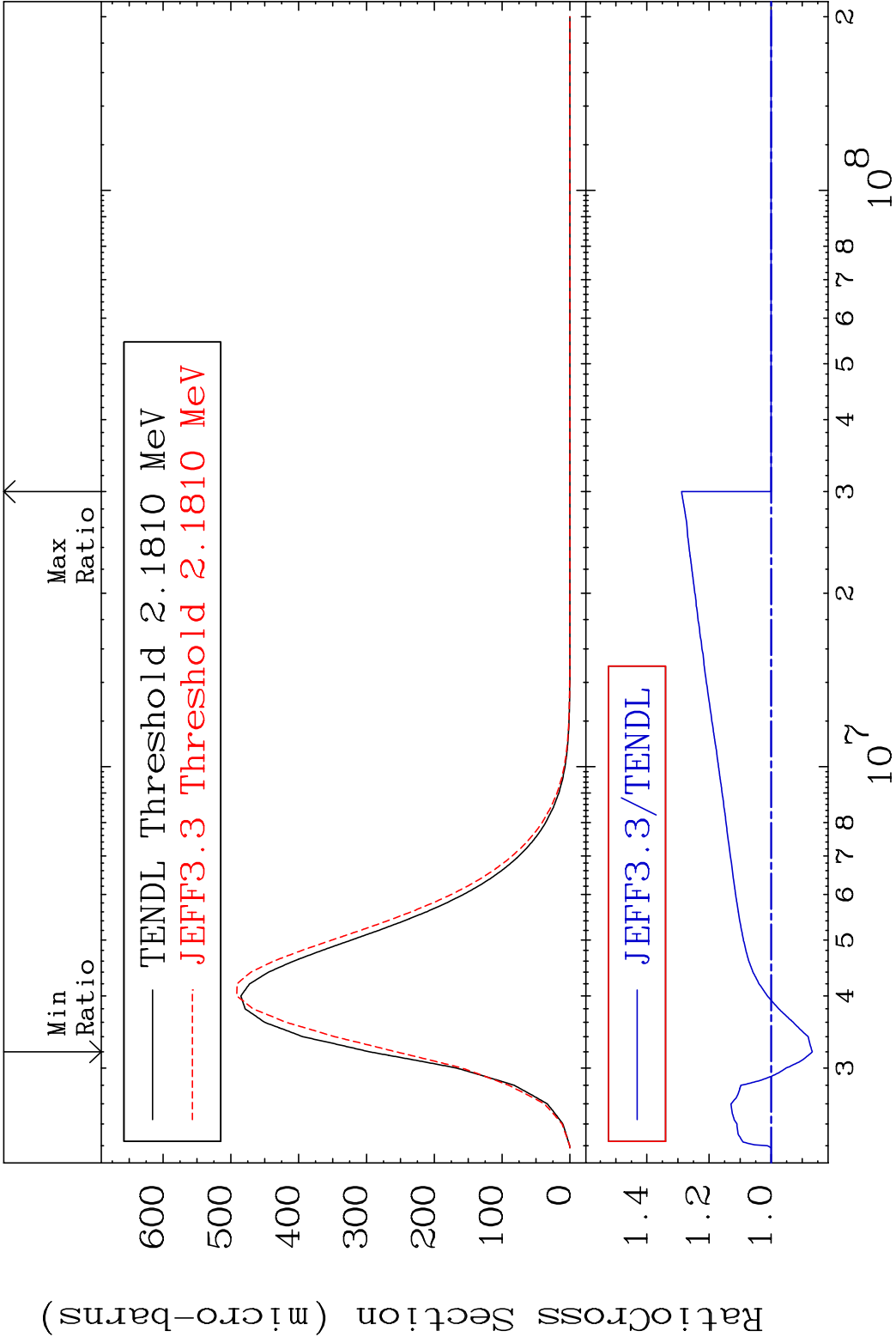
MAT 3931

MT= 64 (n,n') Level

39-Y -91

Cross Section

-13.22 To 28.85 %



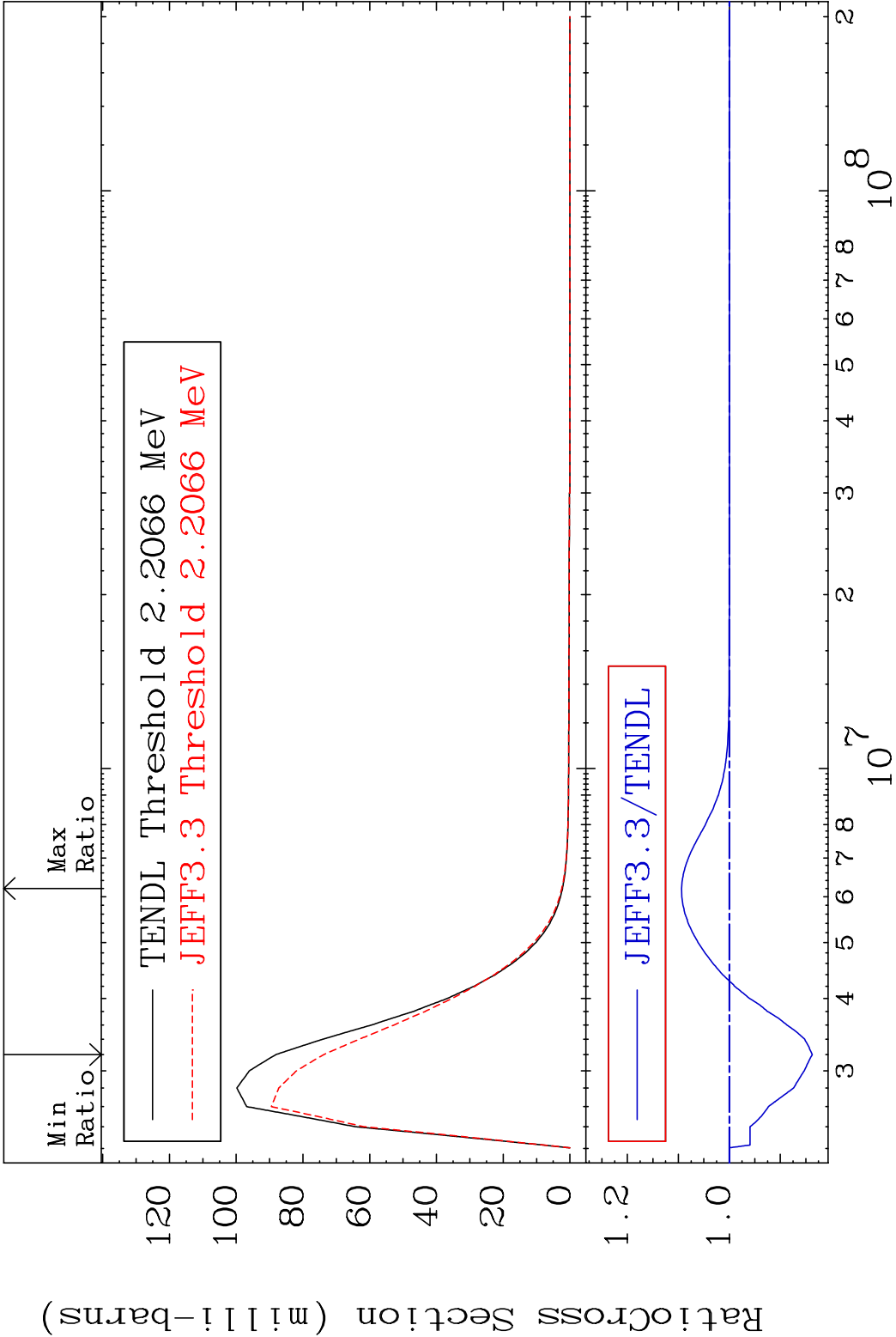
MAT 3931

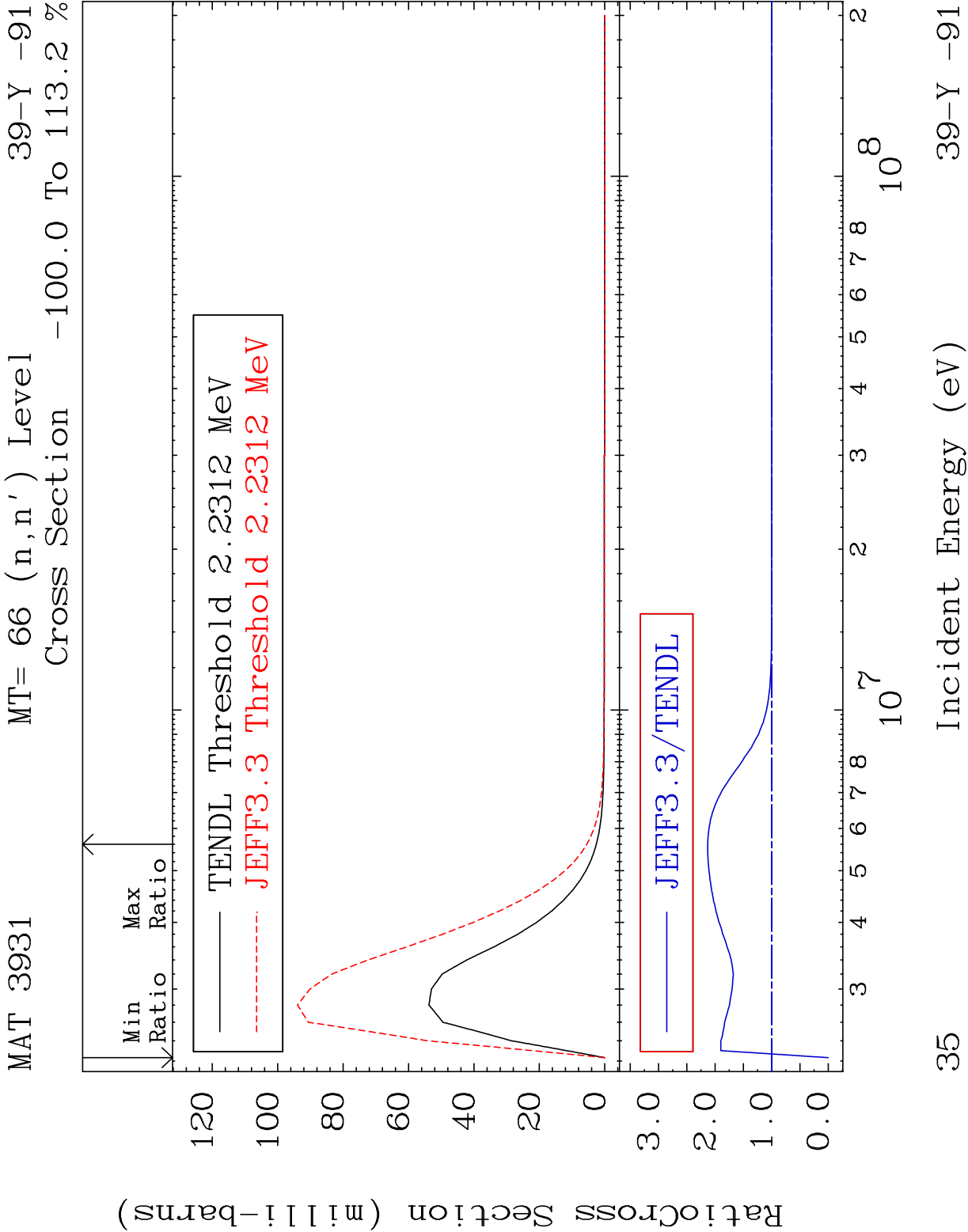
MT= 65 (n,n') Level

39-Y -91

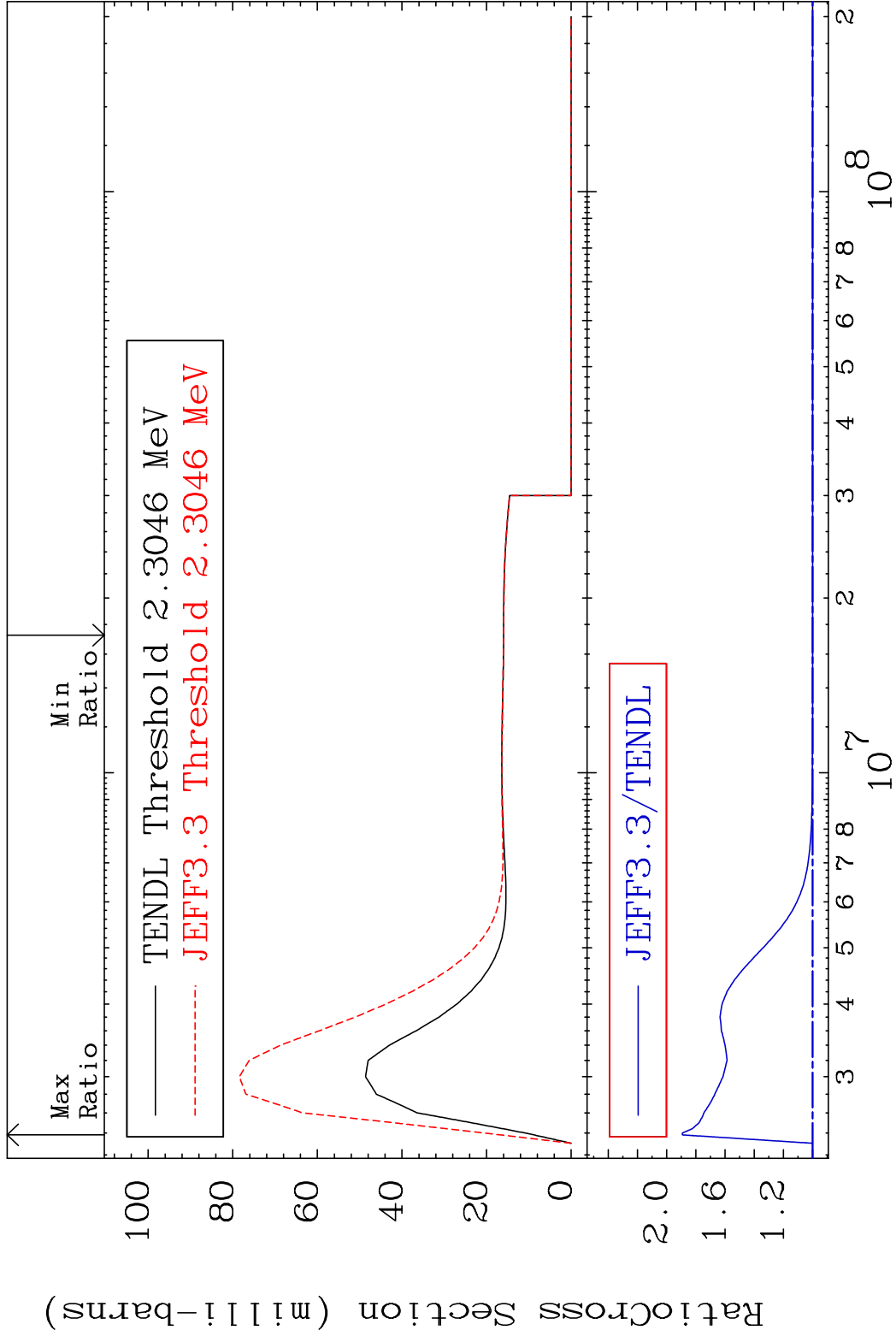
Cross Section

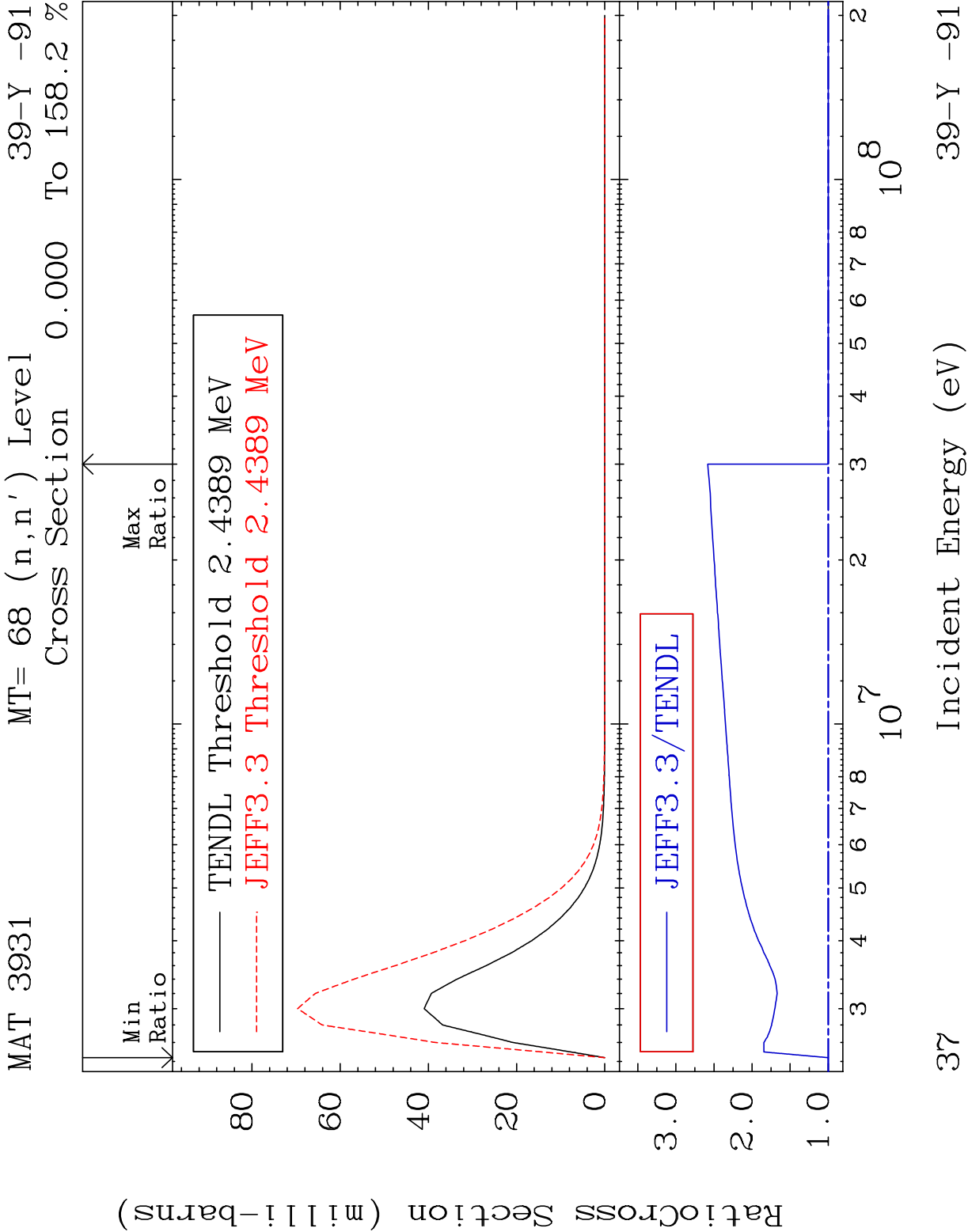
-16.27 To 9.372 %

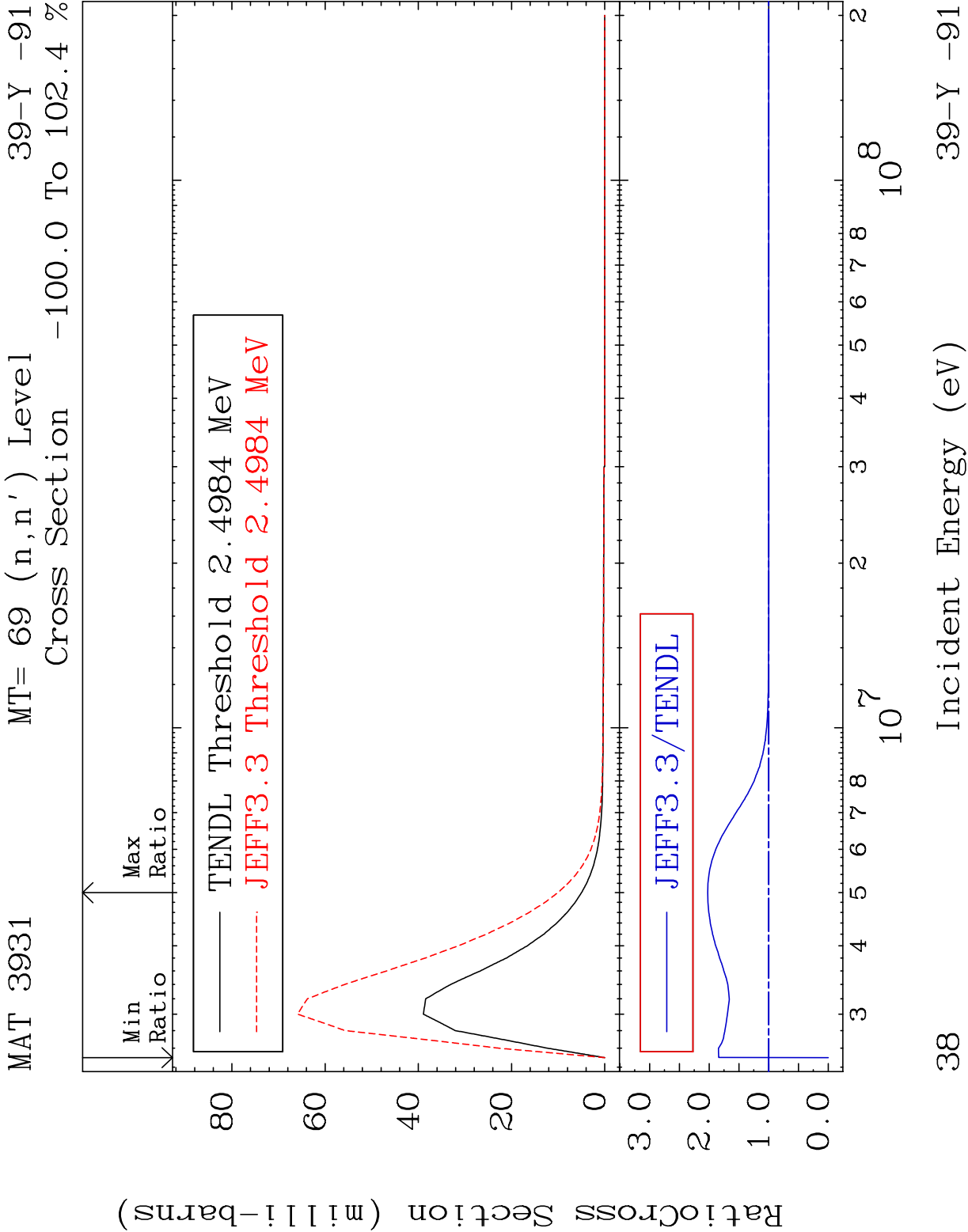




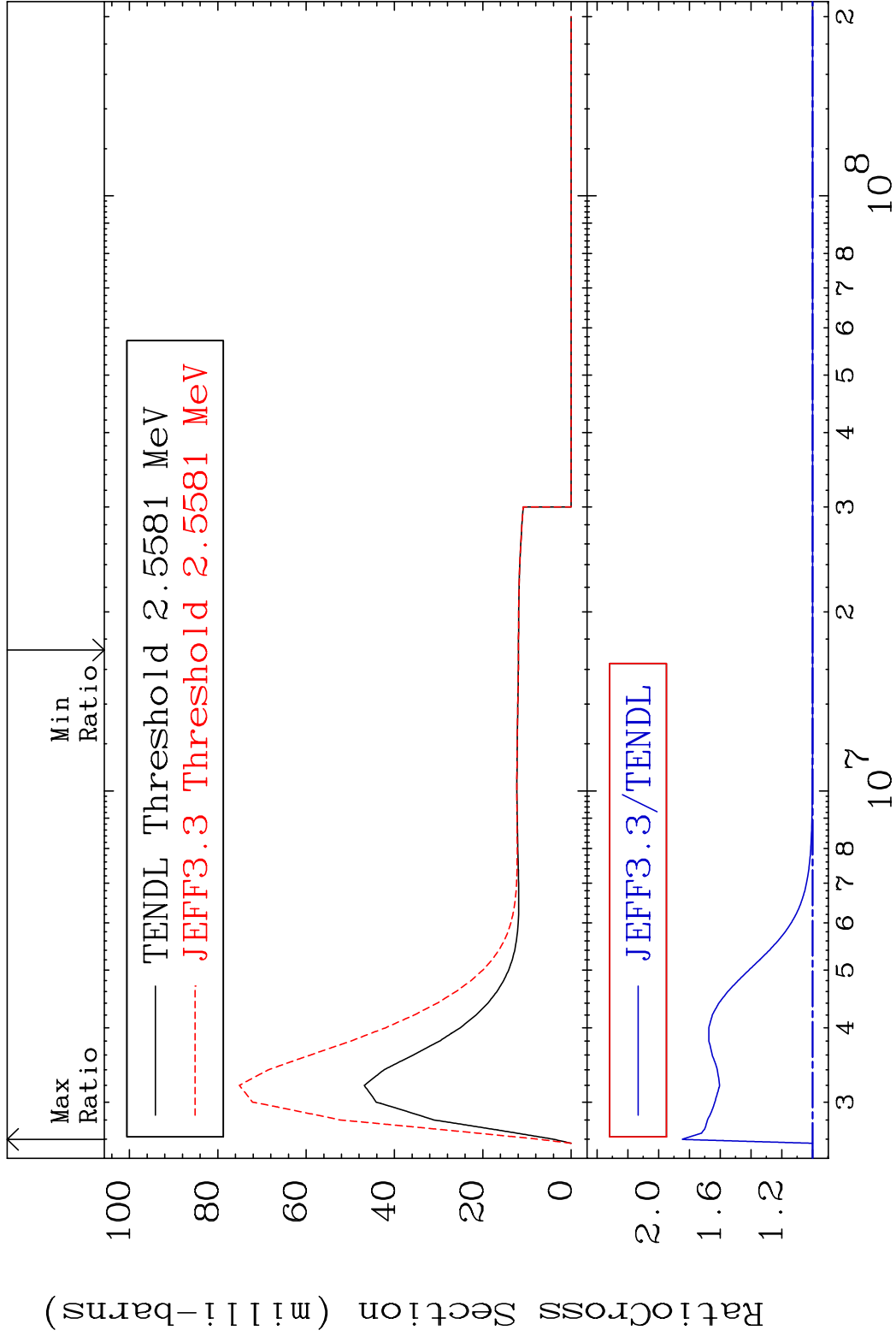
MAT 3931 MT= 67 (n,n') Level 39-Y -91
Cross Section 0.000 To 89.20 %



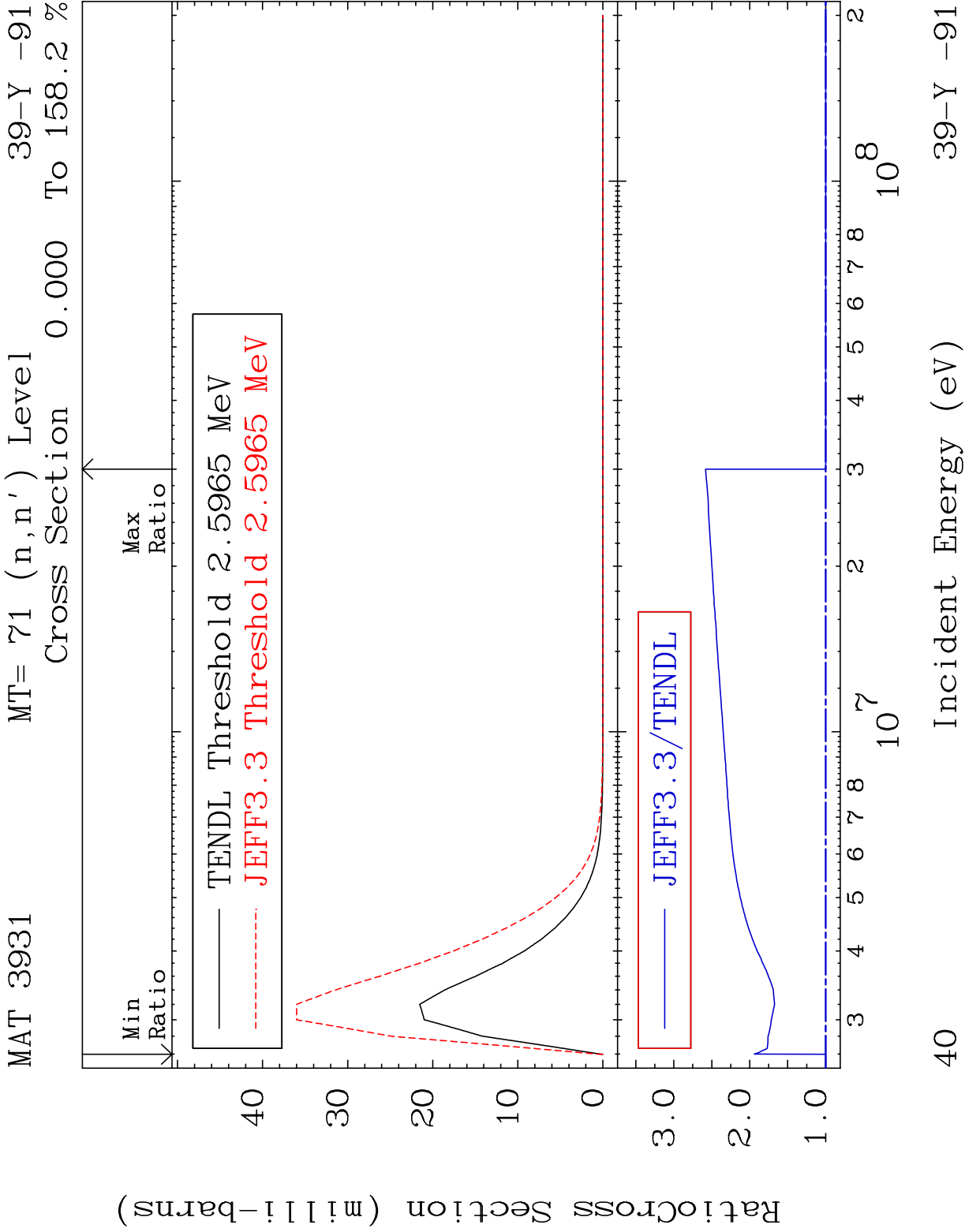




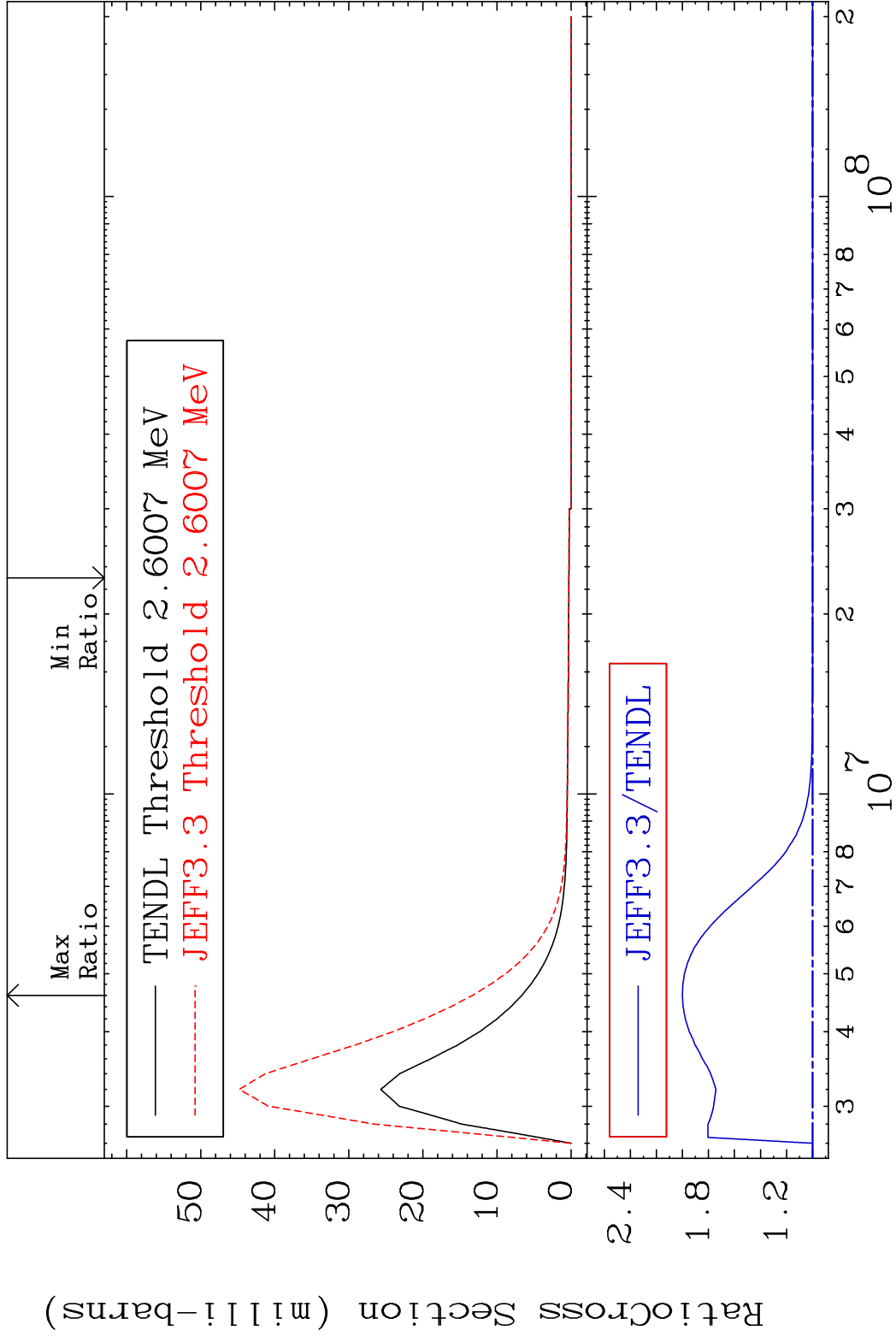
MAT 3931 MT= 70 (n,n') Level 39-Y -91
Cross Section 0.000 To 84.58 %



39 Incident Energy (eV) 39-Y -91



MAT 3931 MT= 72 (n,n') Level 39-Y -91
Cross Section 0.000 To 100.1 %



MAT 3931

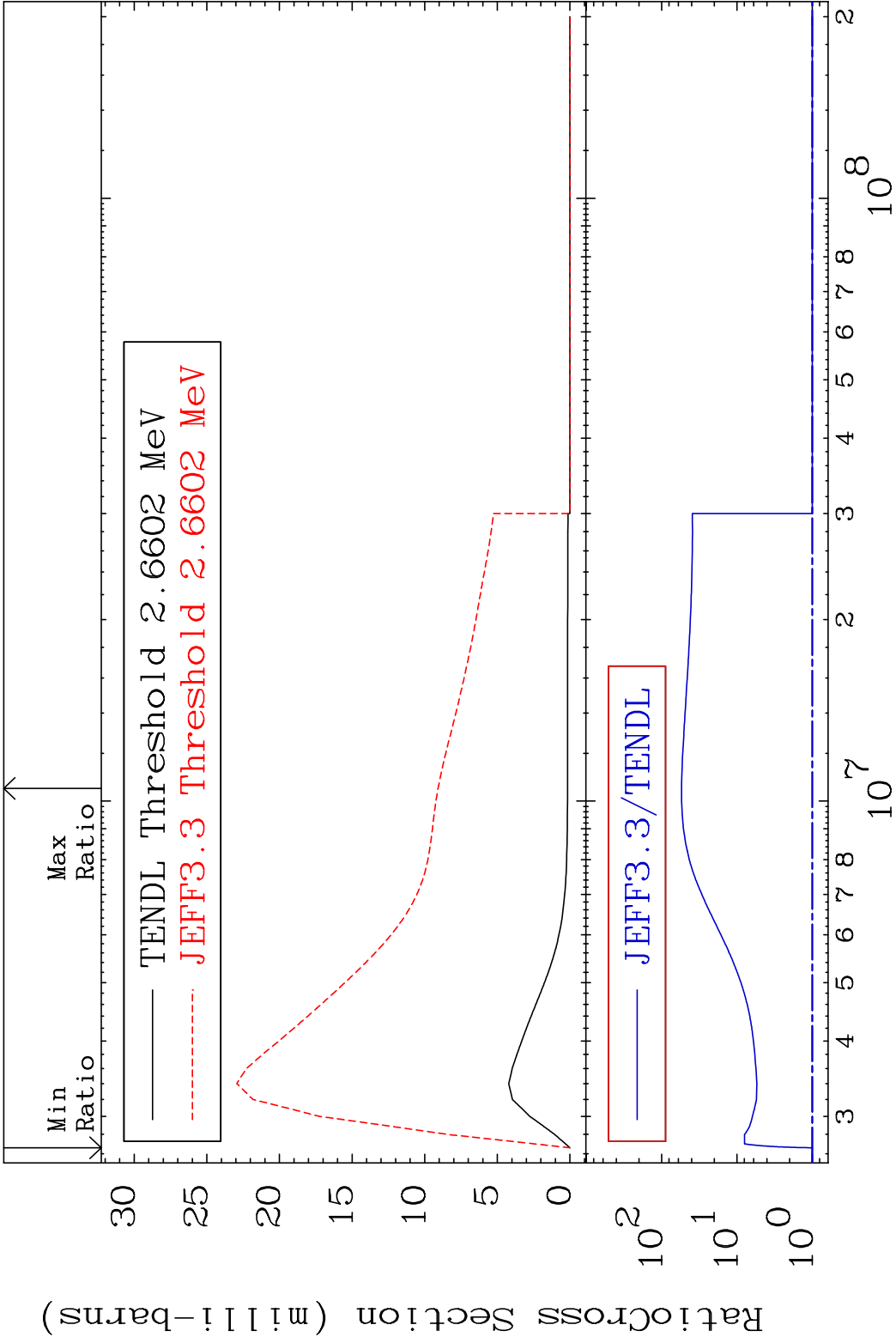
MT= 73 (n,n') Level

39-Y -91

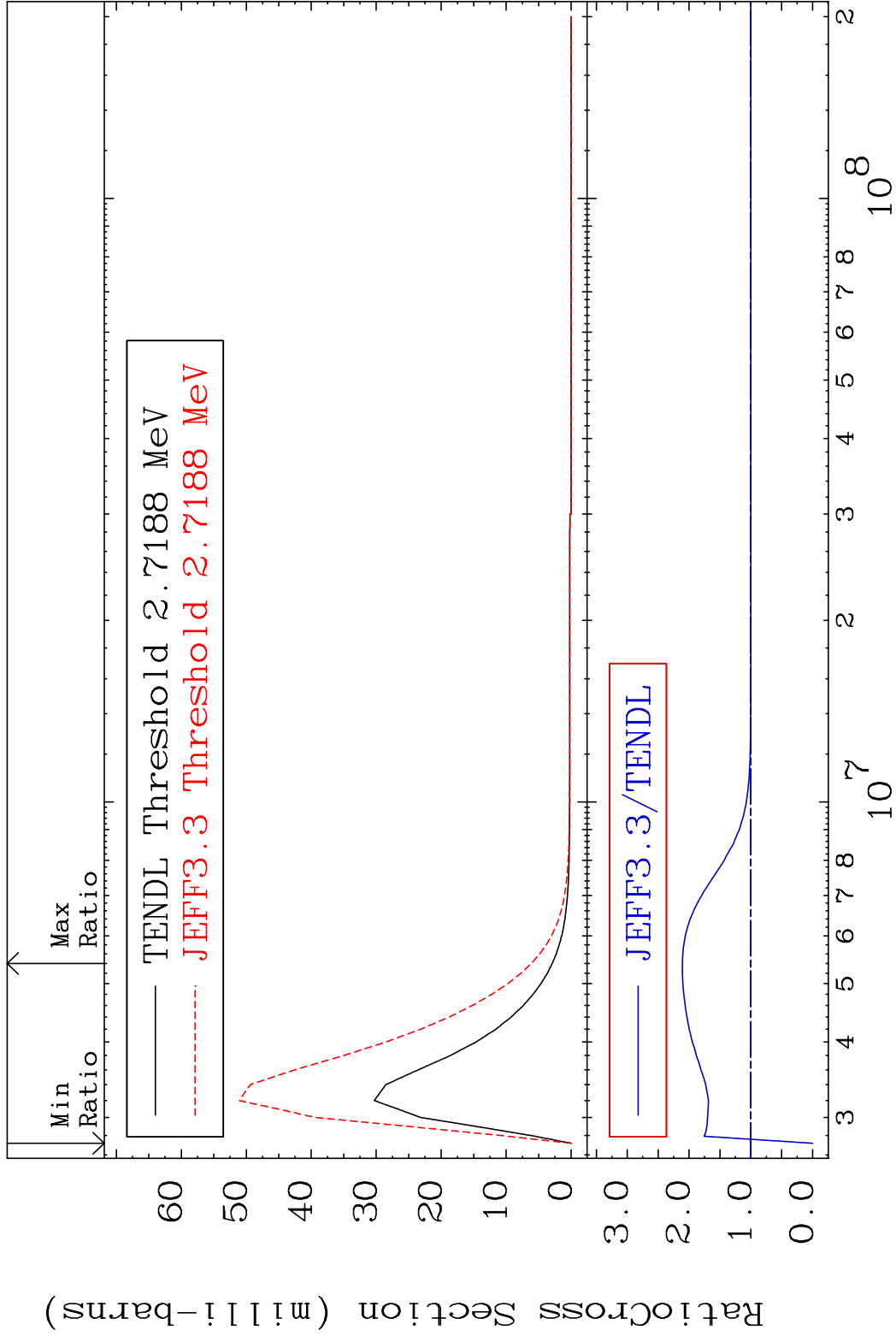
Cross Section

0.000

To 5343. %



MAT 3931 MT= 74 (n,n') Level 39-Y -91
Cross Section -100.0 To 110.9 %



MAT 3931

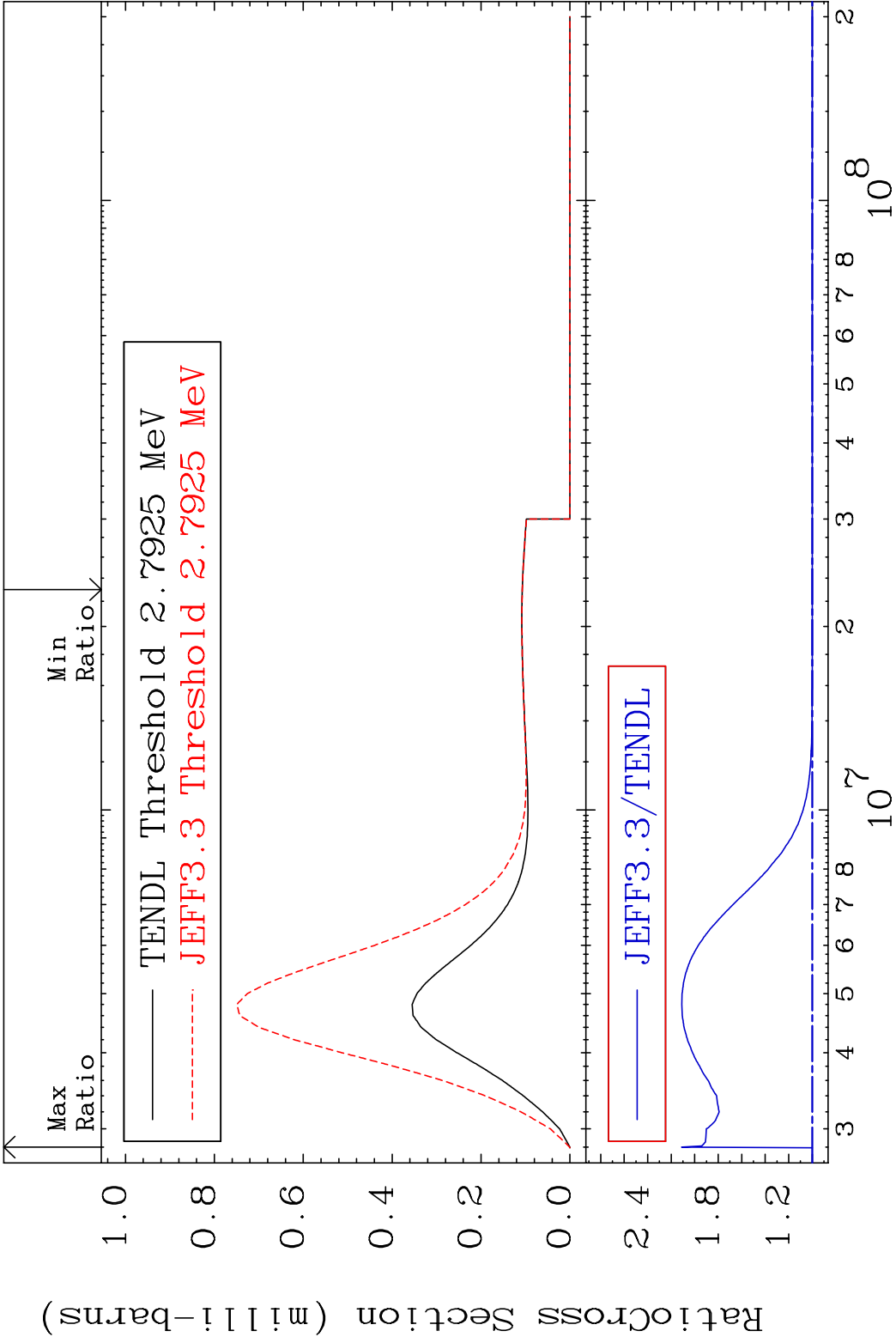
MT= 75 (n,n') Level

39-Y -91

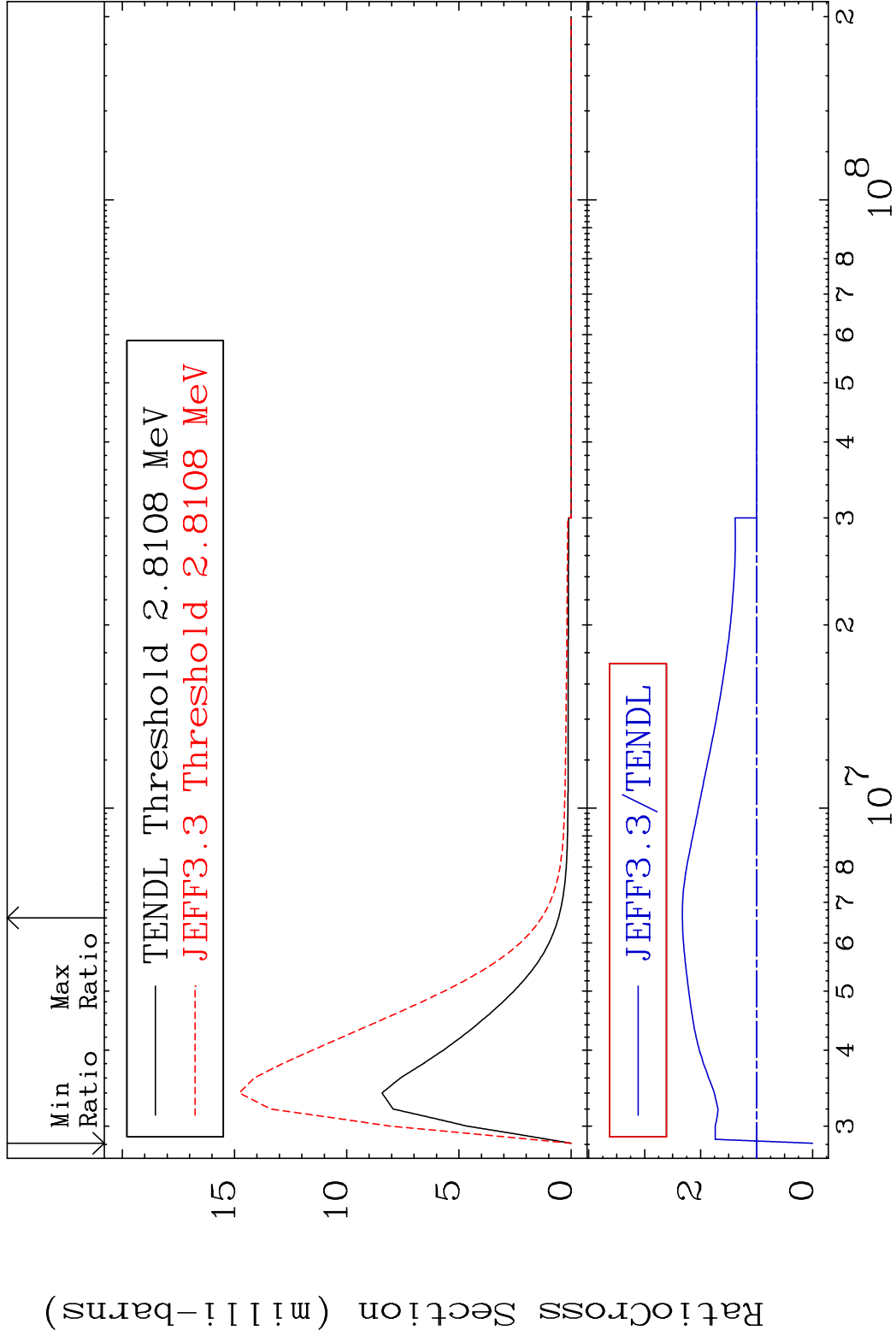
Cross Section

0.000

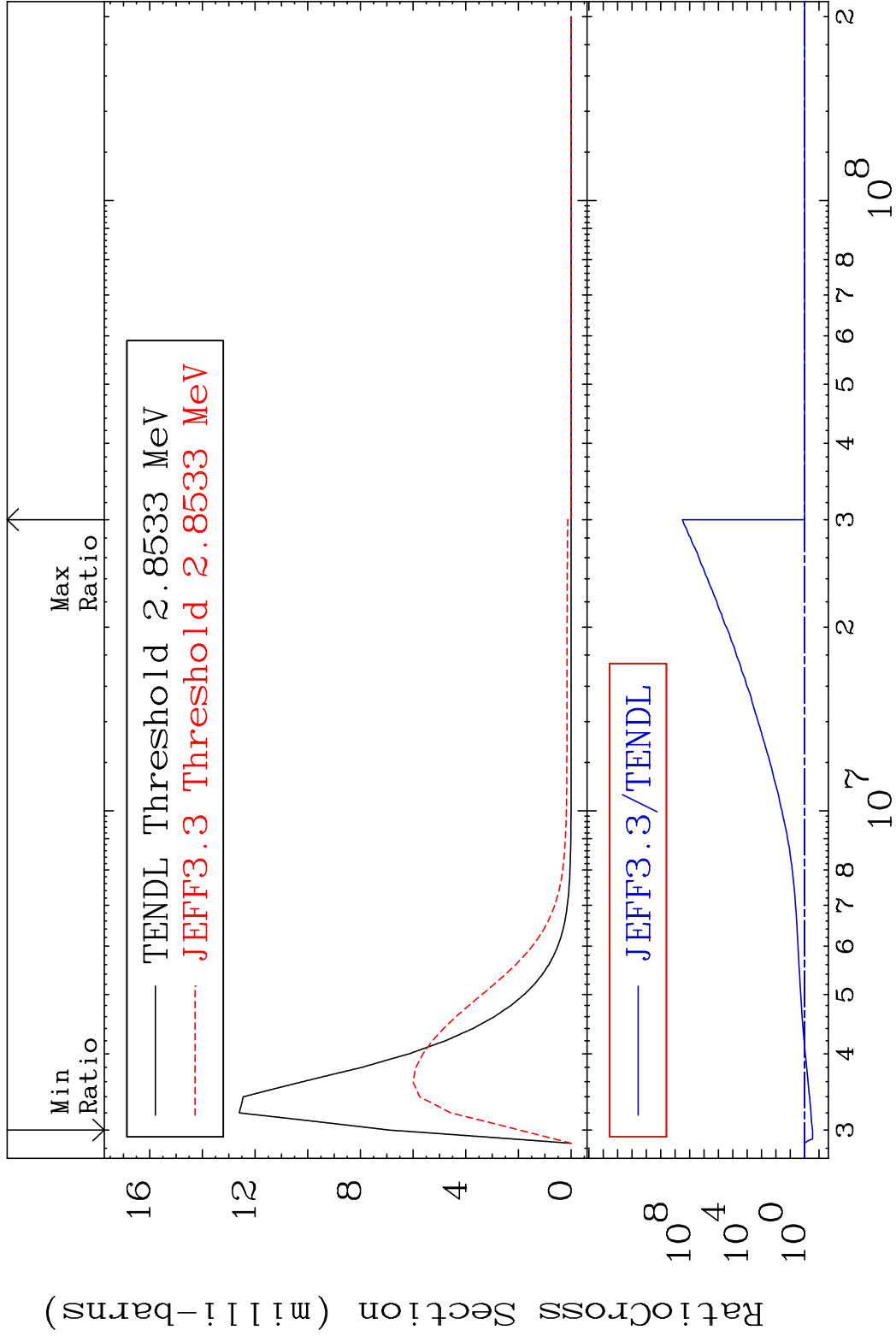
To 111.2 %



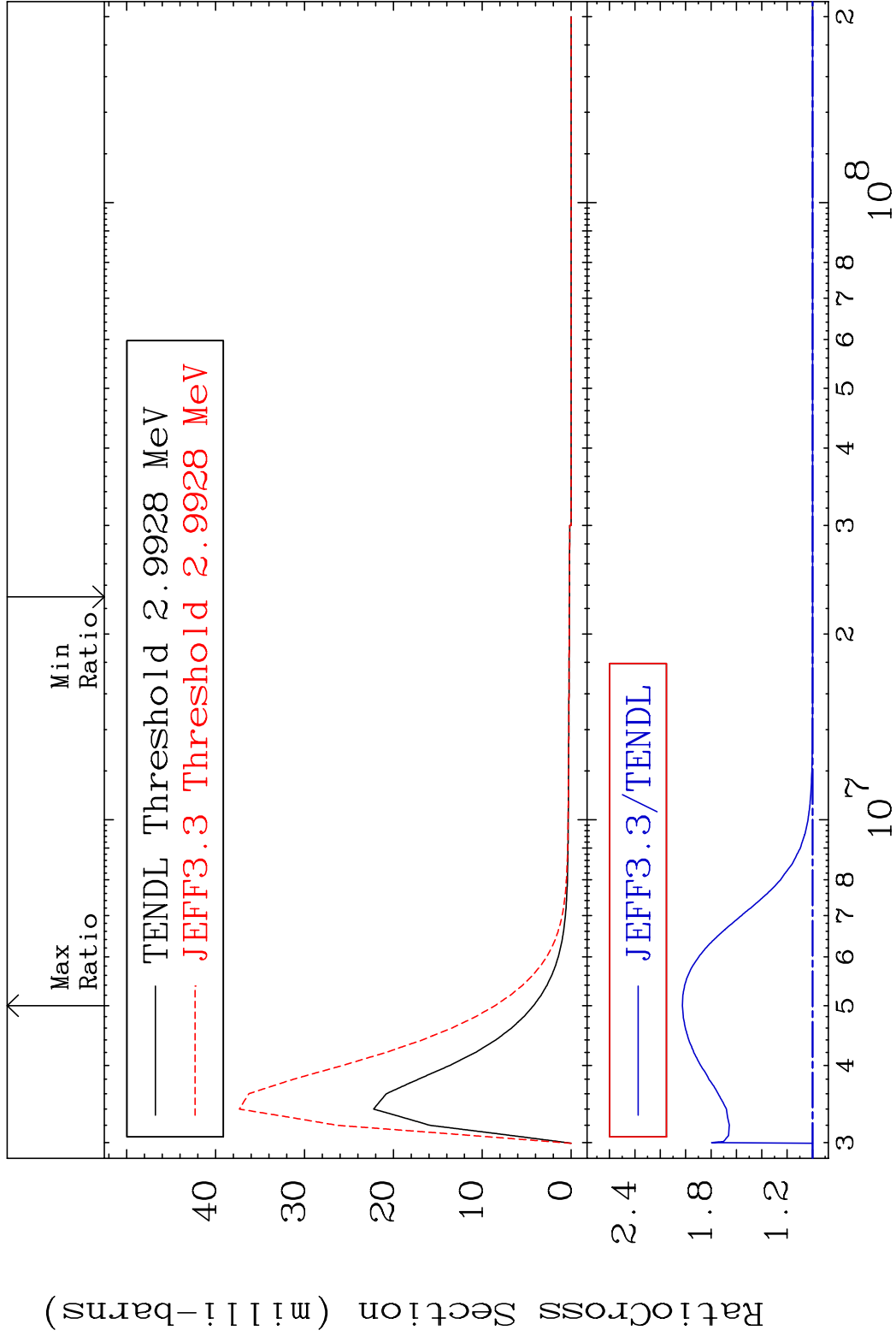
MAT 3931 MT= 76 (n,n') Level 39-Y -91
Cross Section -100.0 To 132.6 %



MAT 3931 MT= 77 (n,n') Level 39-Y -91
Cross Section -71.51 To 9999. %

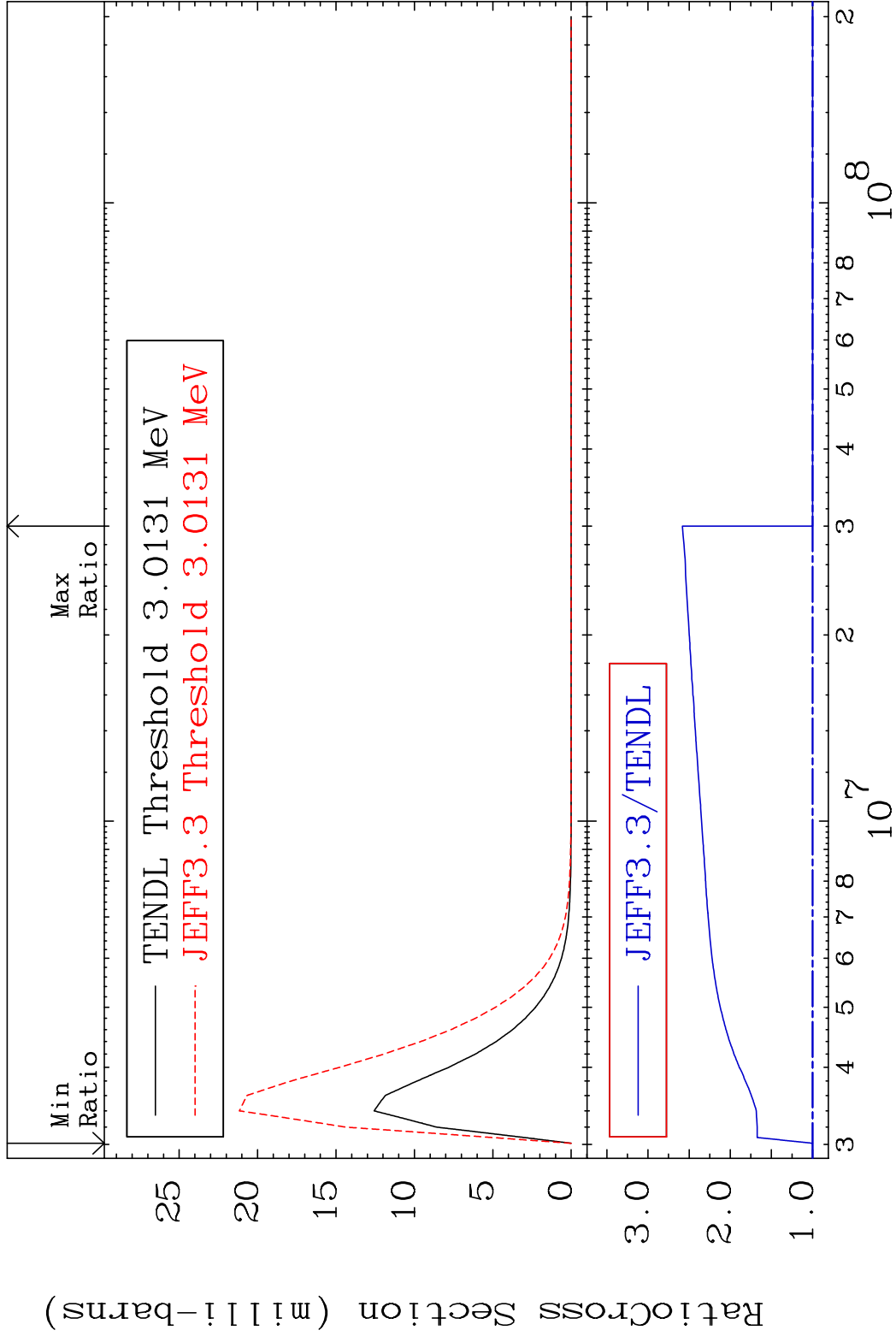


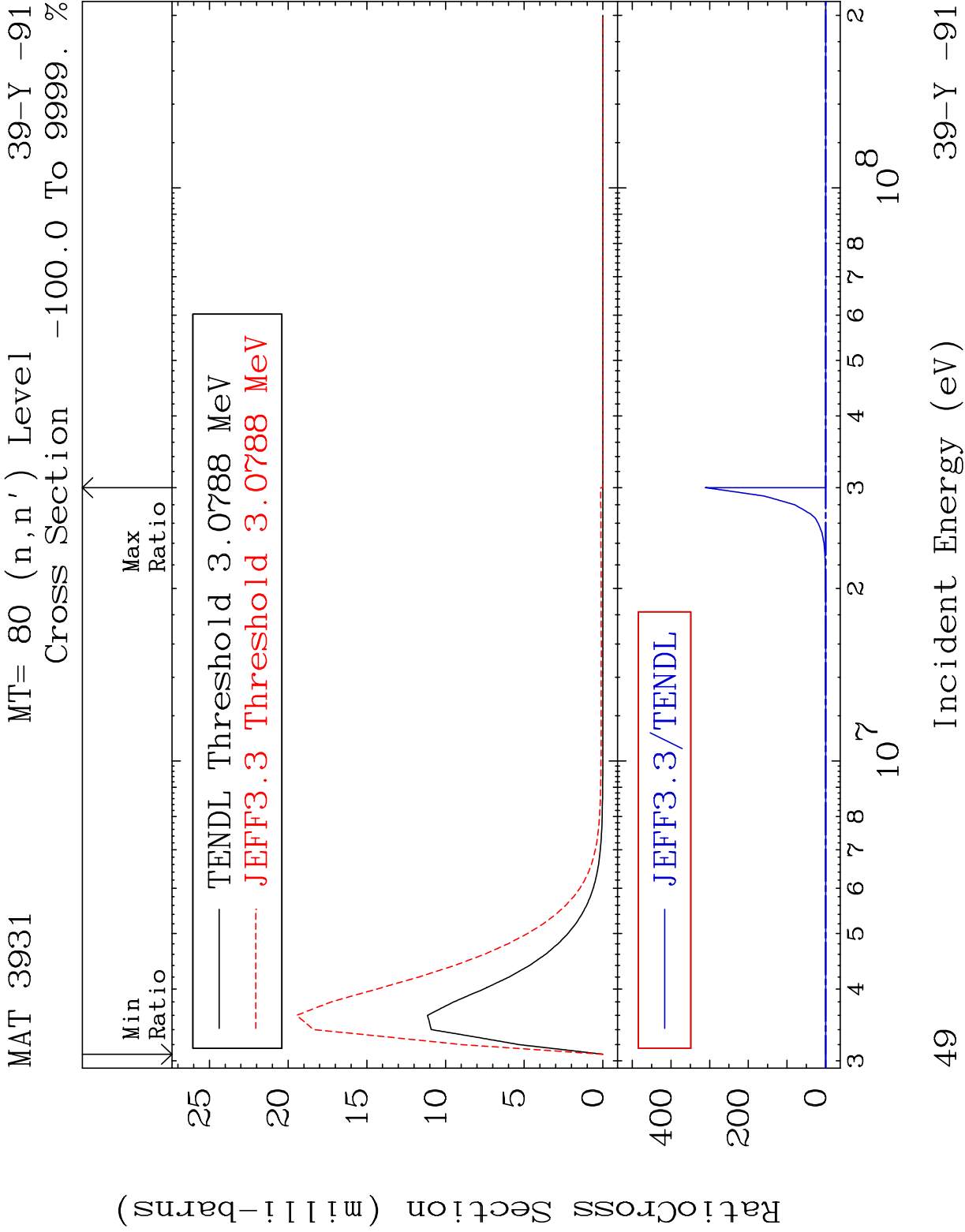
MAT 3931 MT= 78 (n,n') Level 39-Y -91
Cross Section 0.000 To 102.6 %

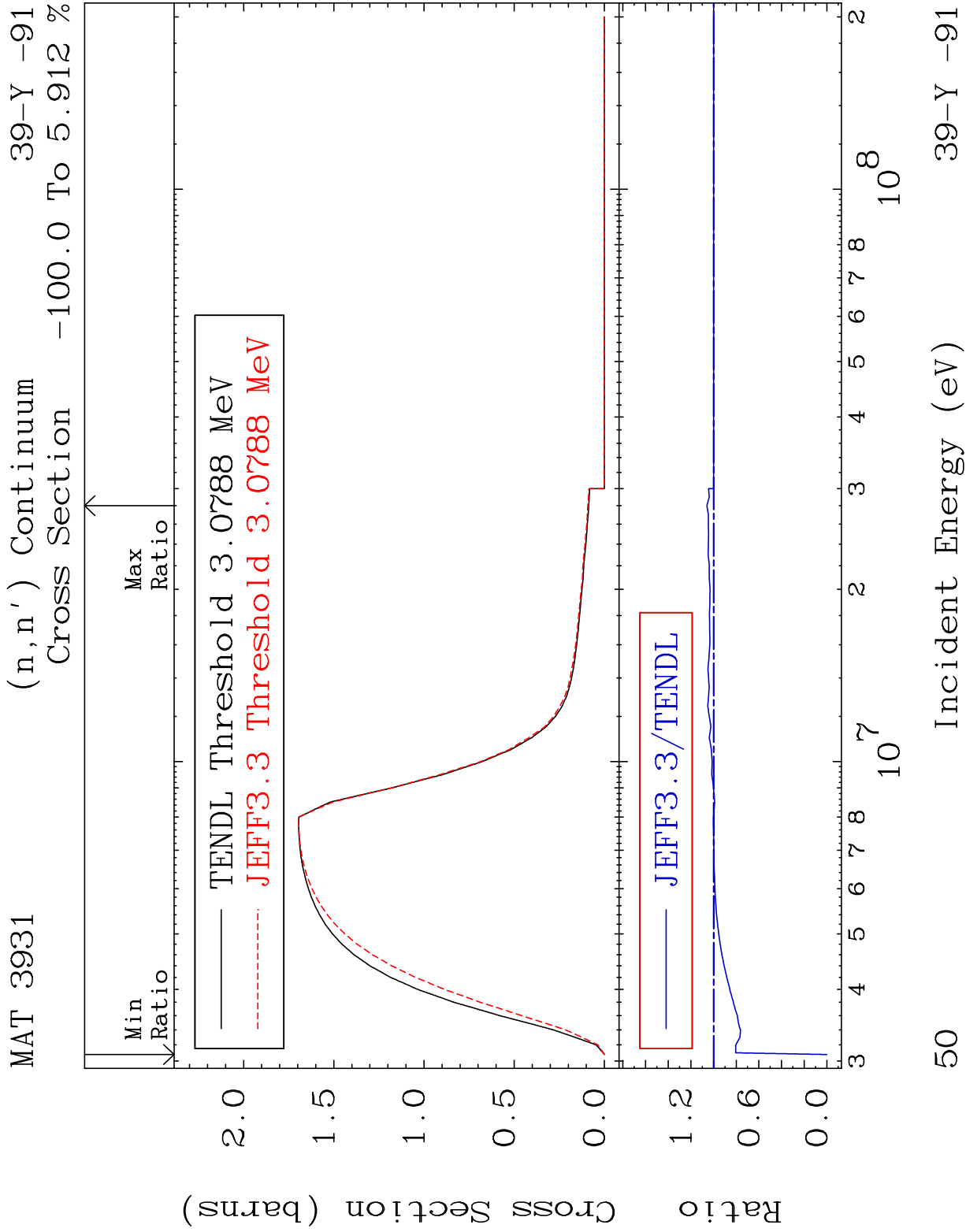


MAT 3931 MT= 79 (n,n') Level 39-Y -91

Cross Section 0.000 To 158.2 %





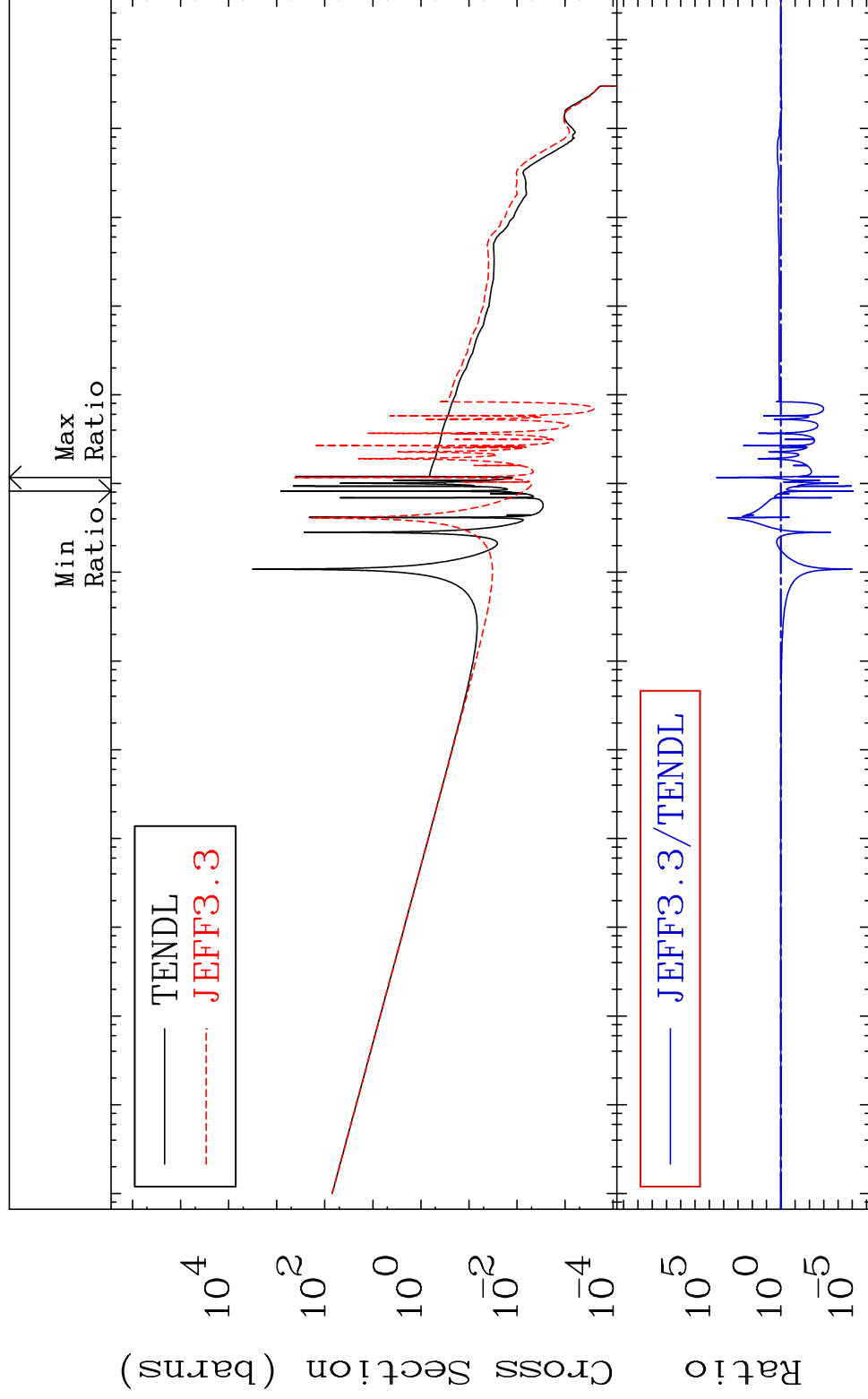


MAT 3931

(n, γ)

39-Y -91

Cross Section -100.0 To 9999. %

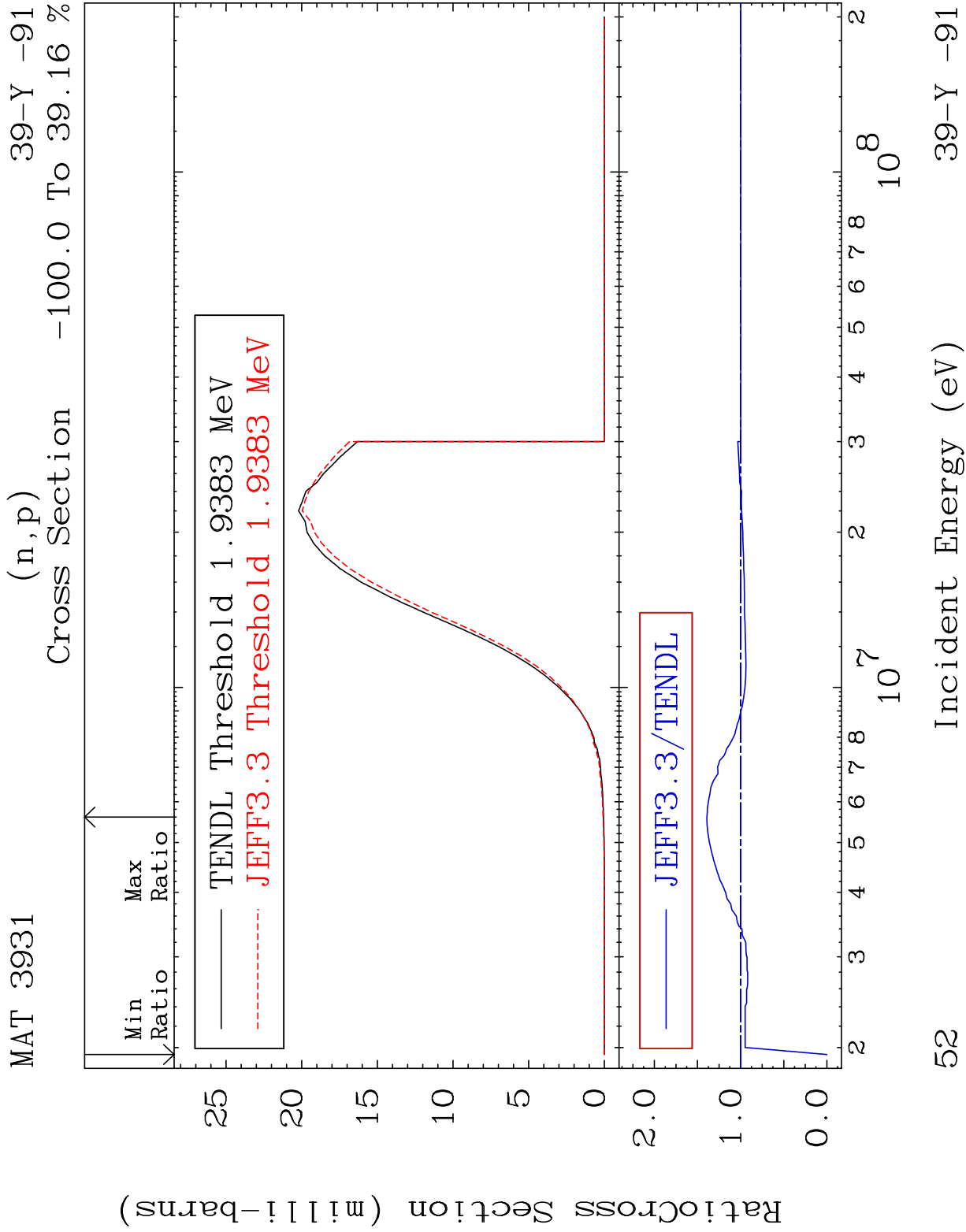


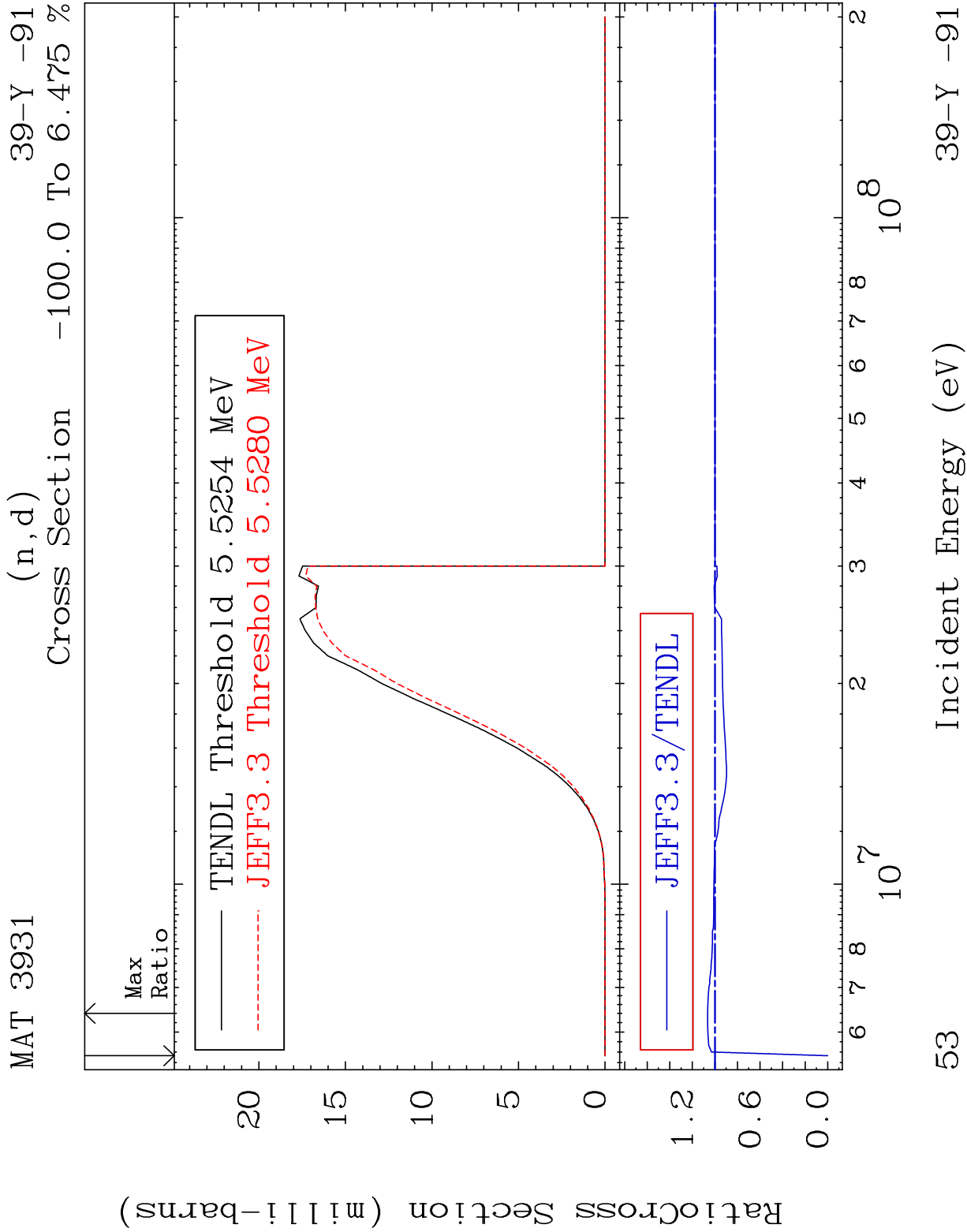
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

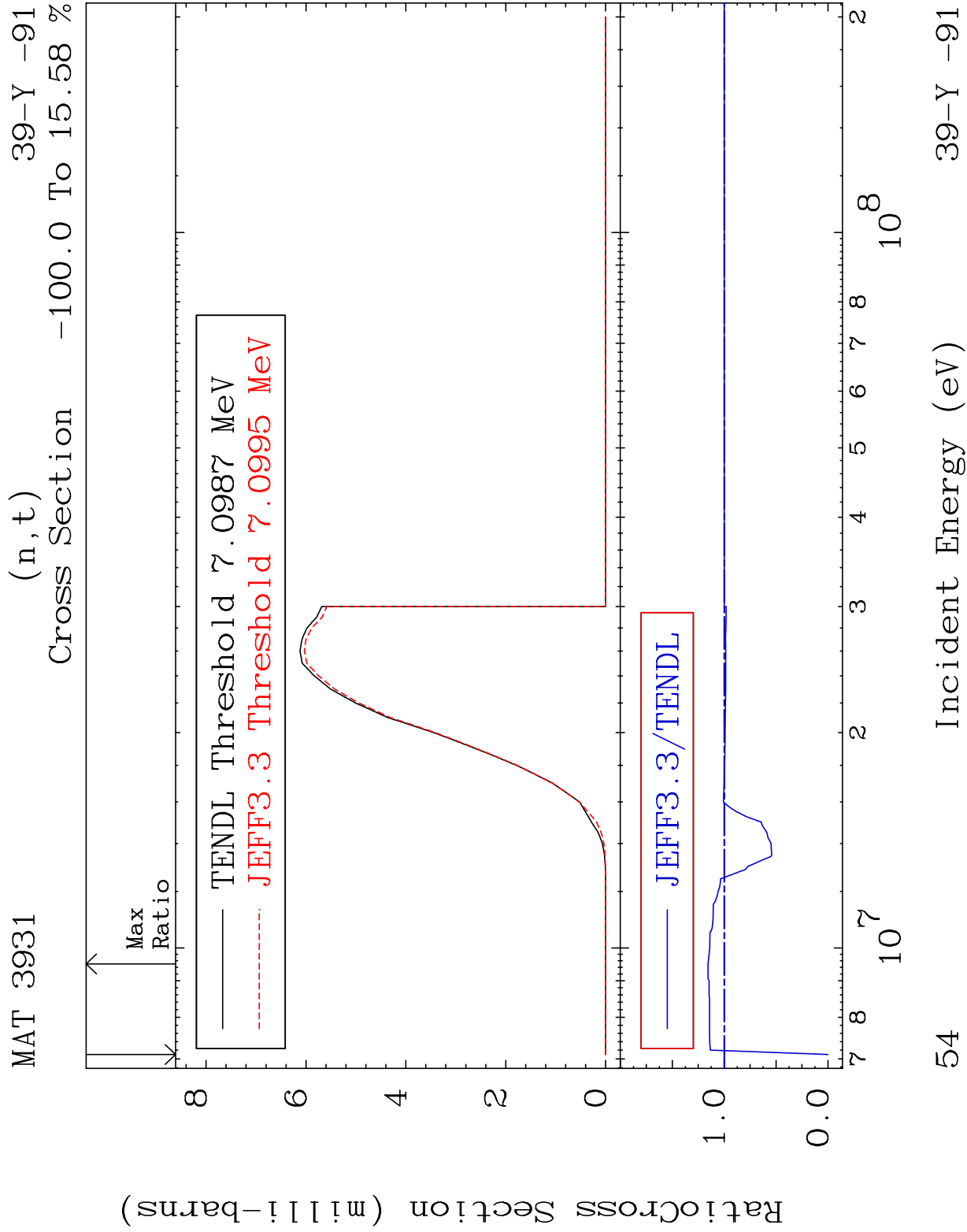
51

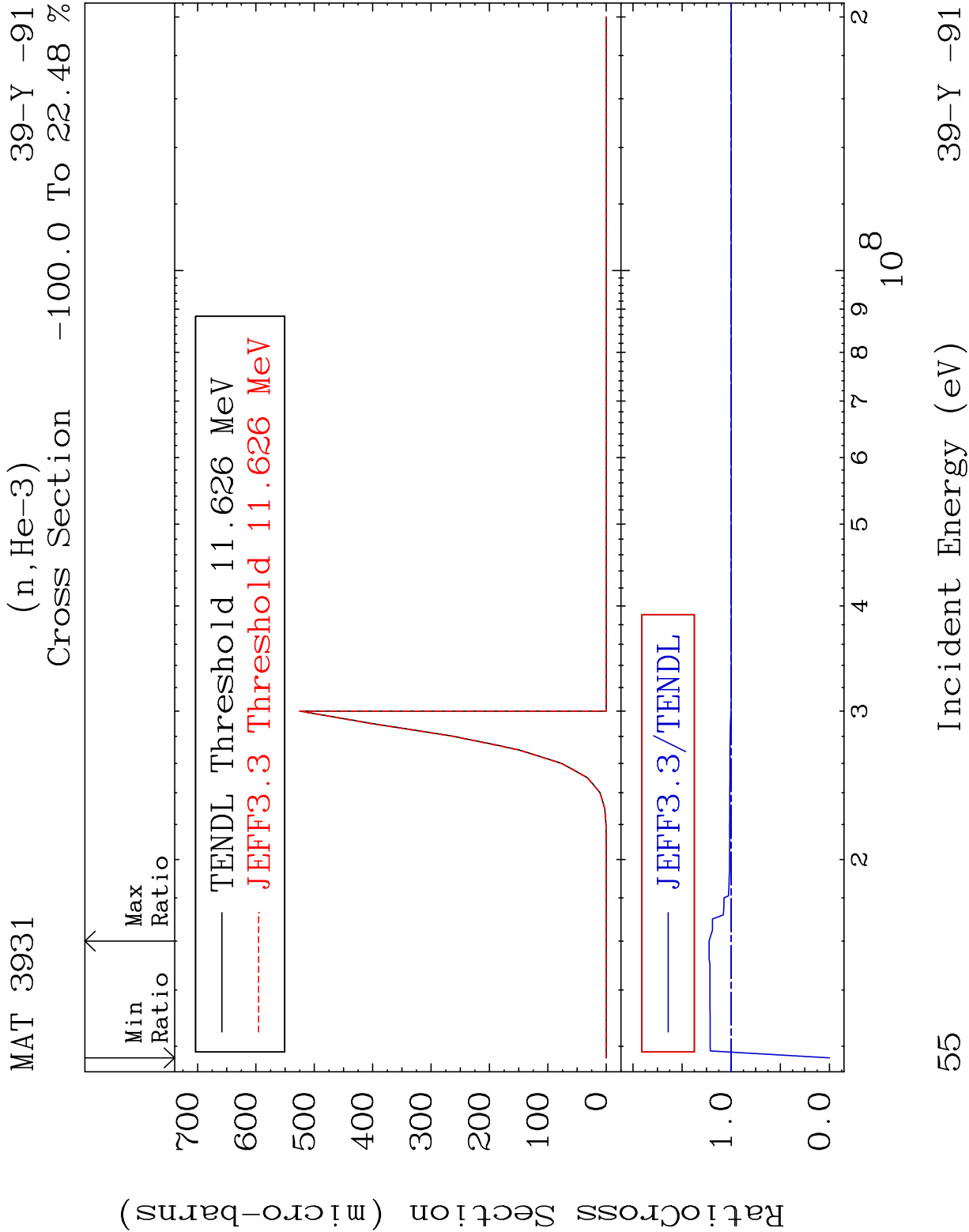
Incident Energy (eV)

39-Y -91







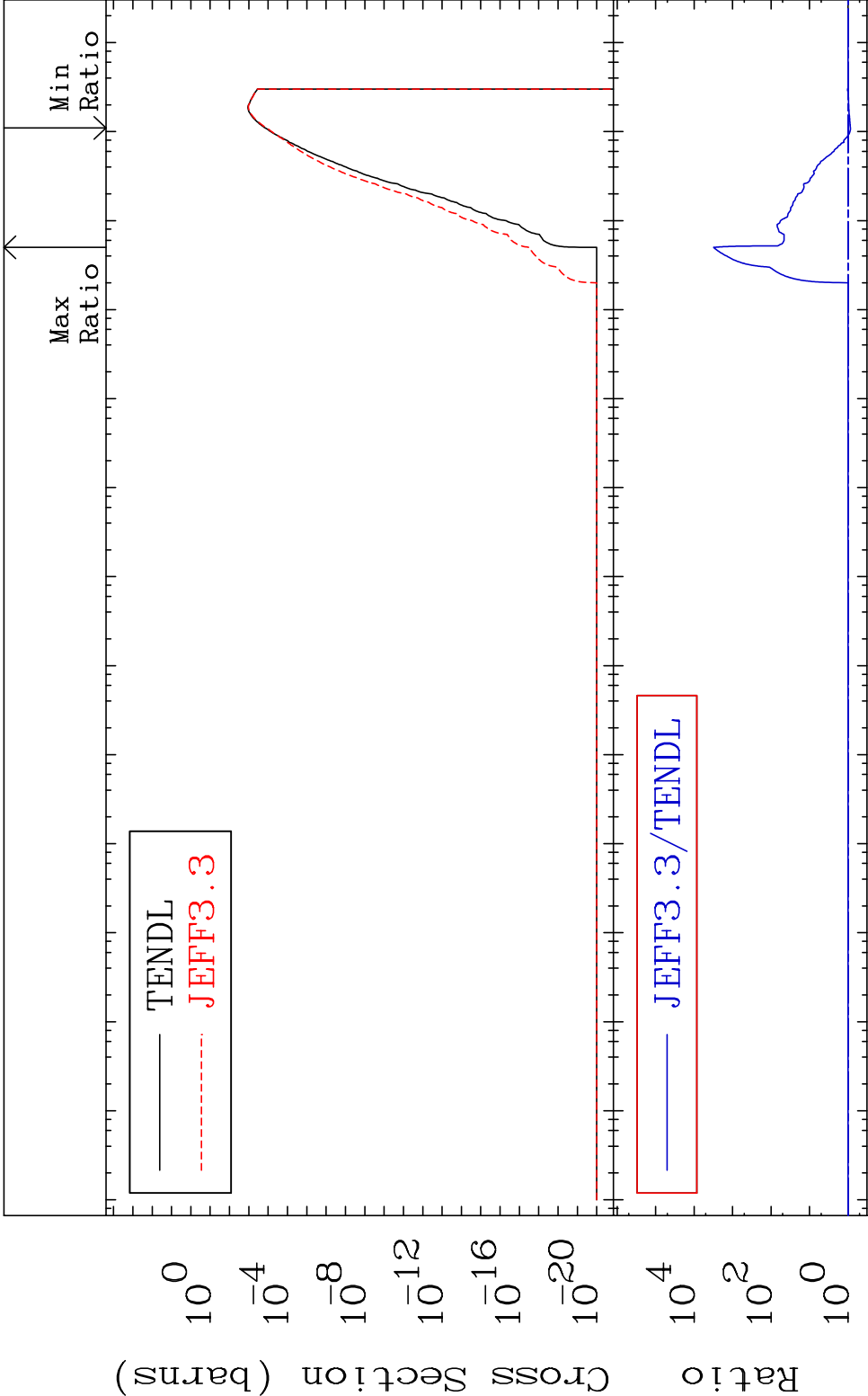


MAT 3931

(n, α)

39-Y -91

Cross Section -13.21 To 9999. %

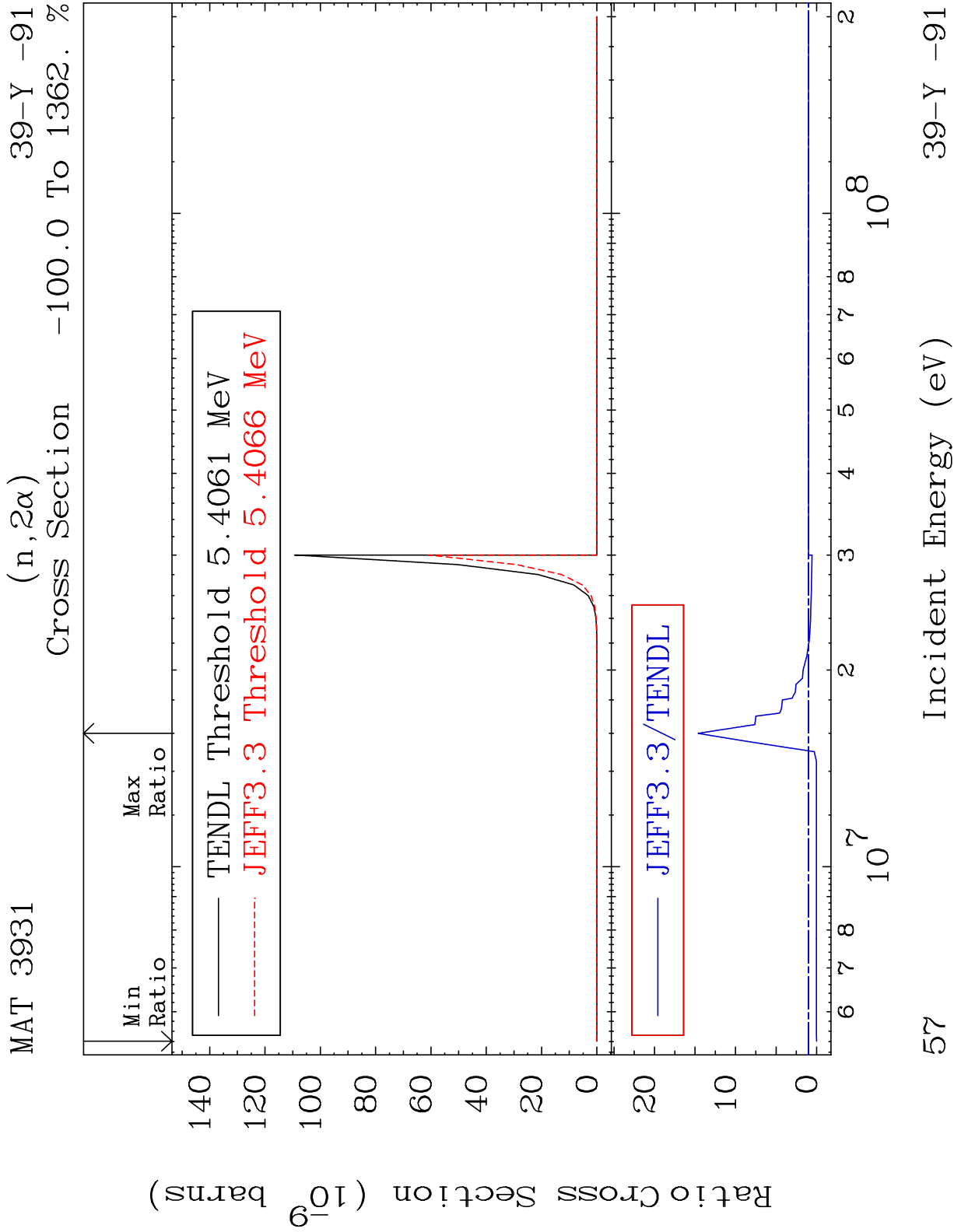


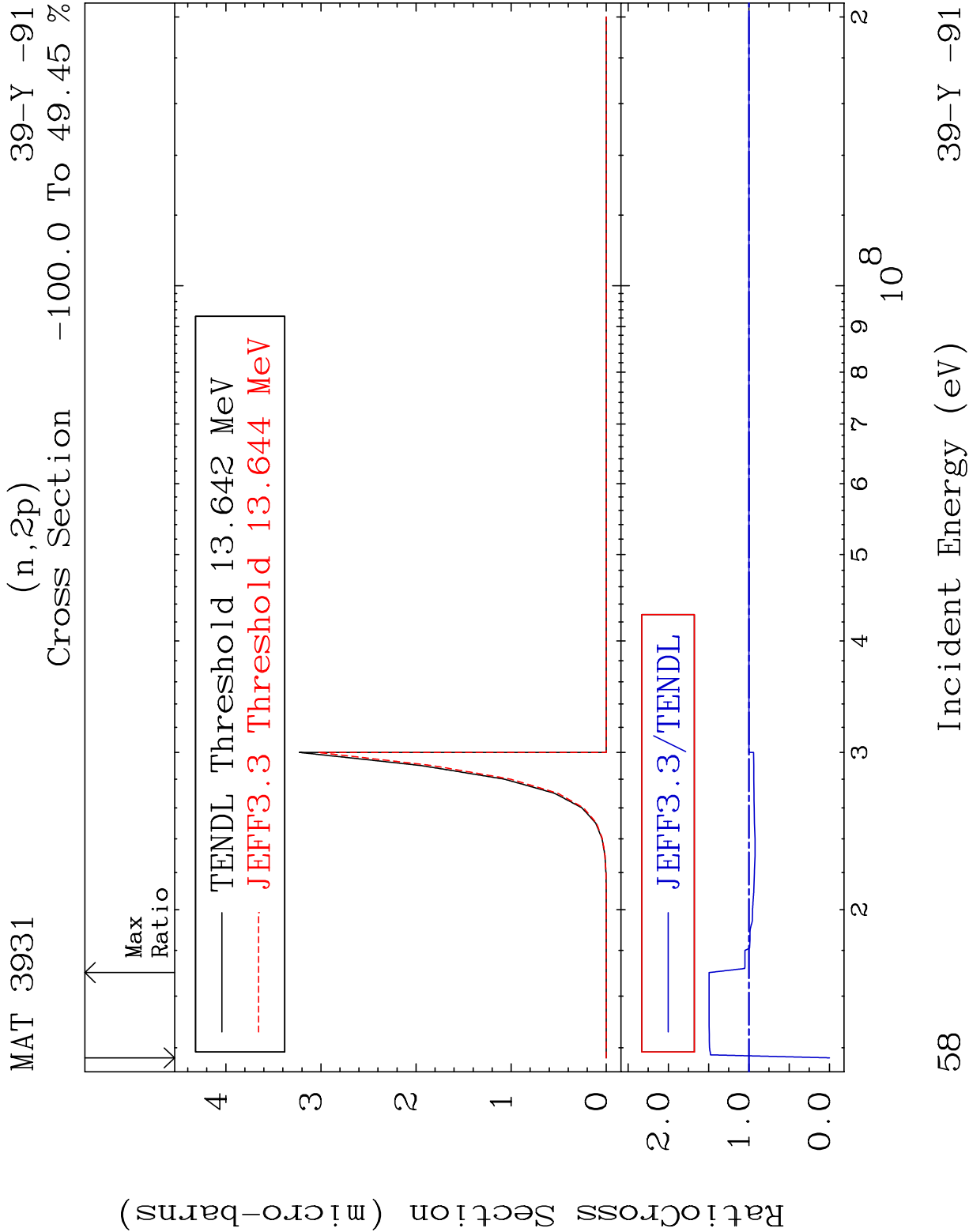
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

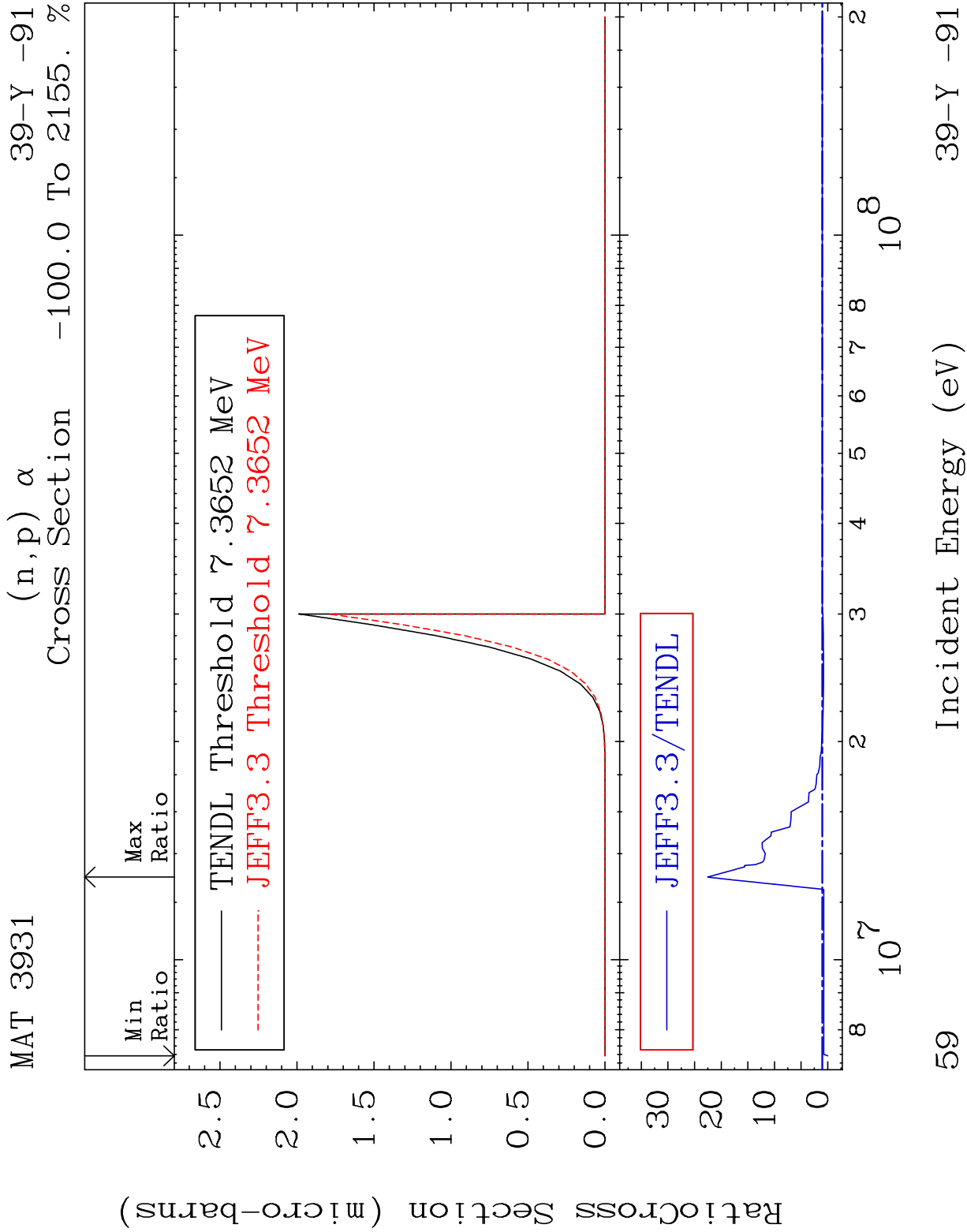
56

Incident Energy (eV)

39-Y -91





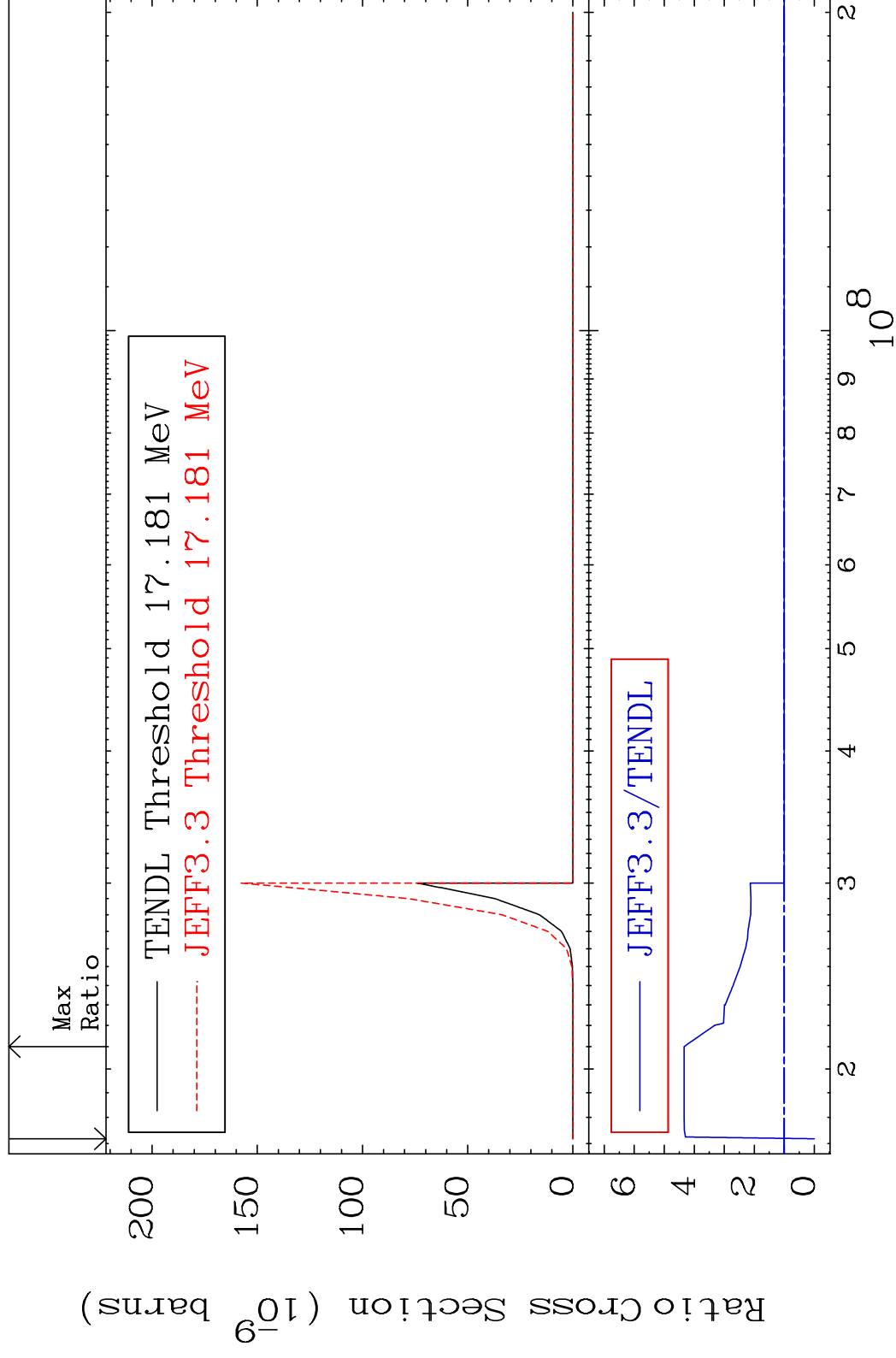


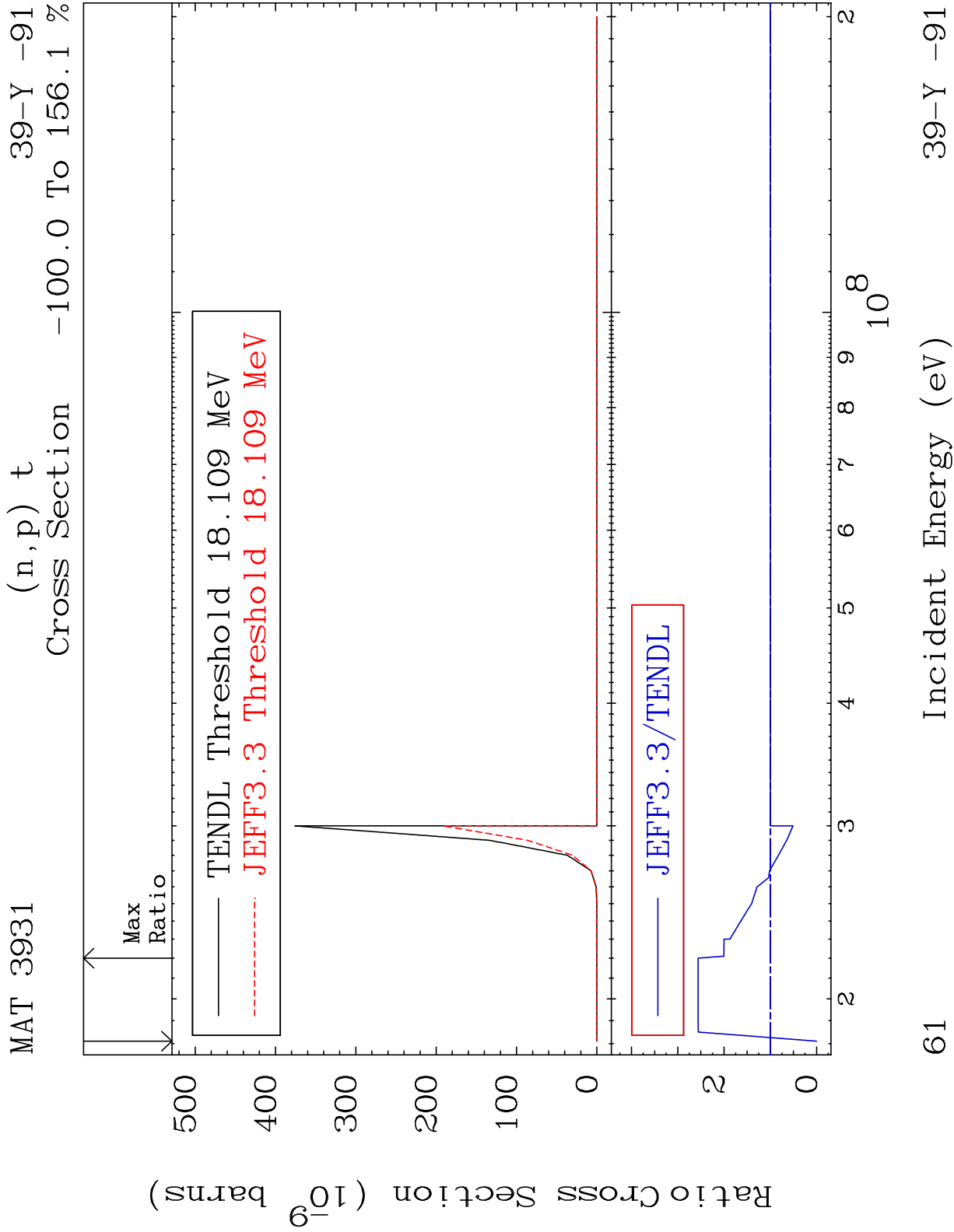
MAT 3931

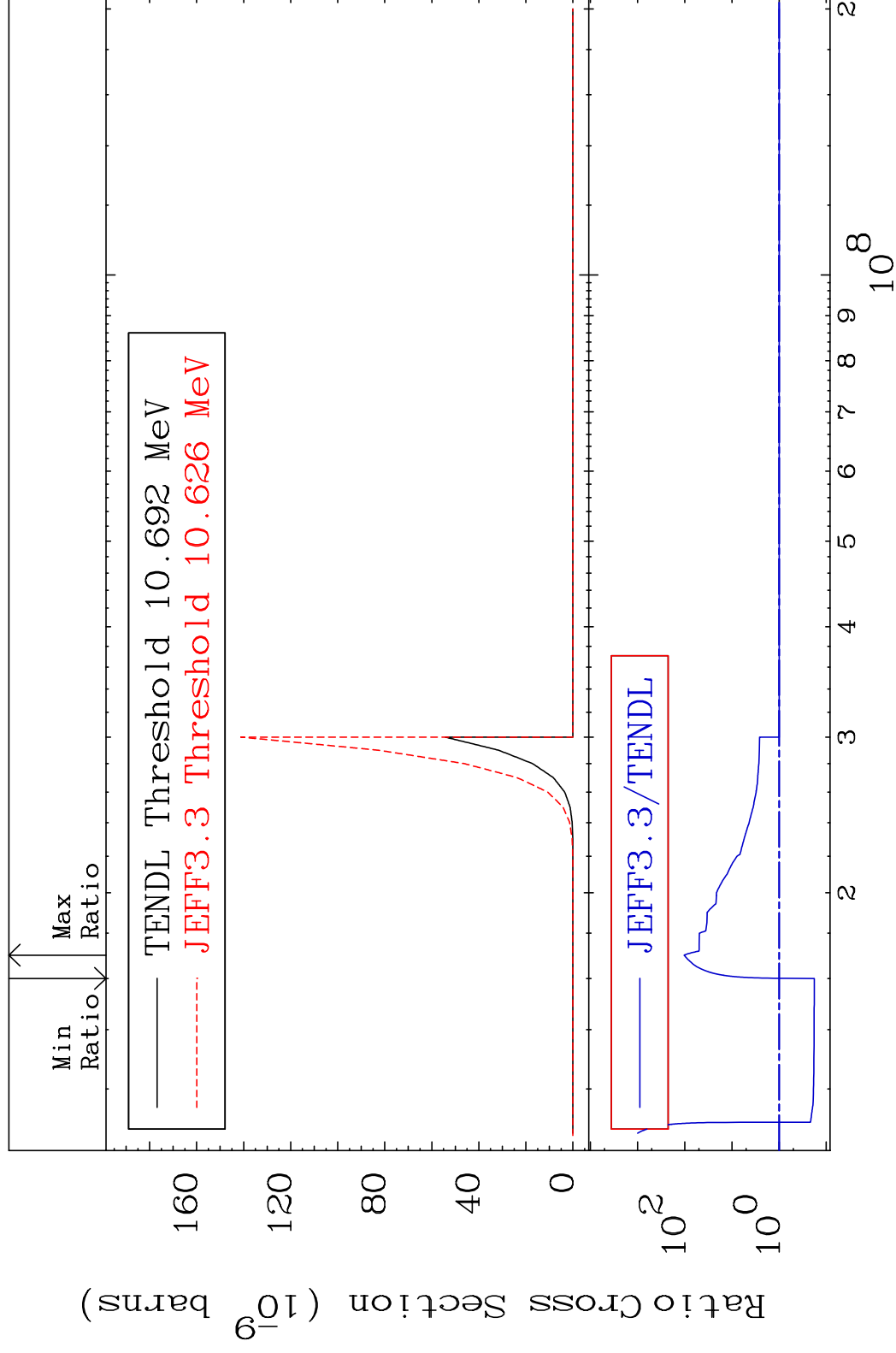
$$(n, p)$$

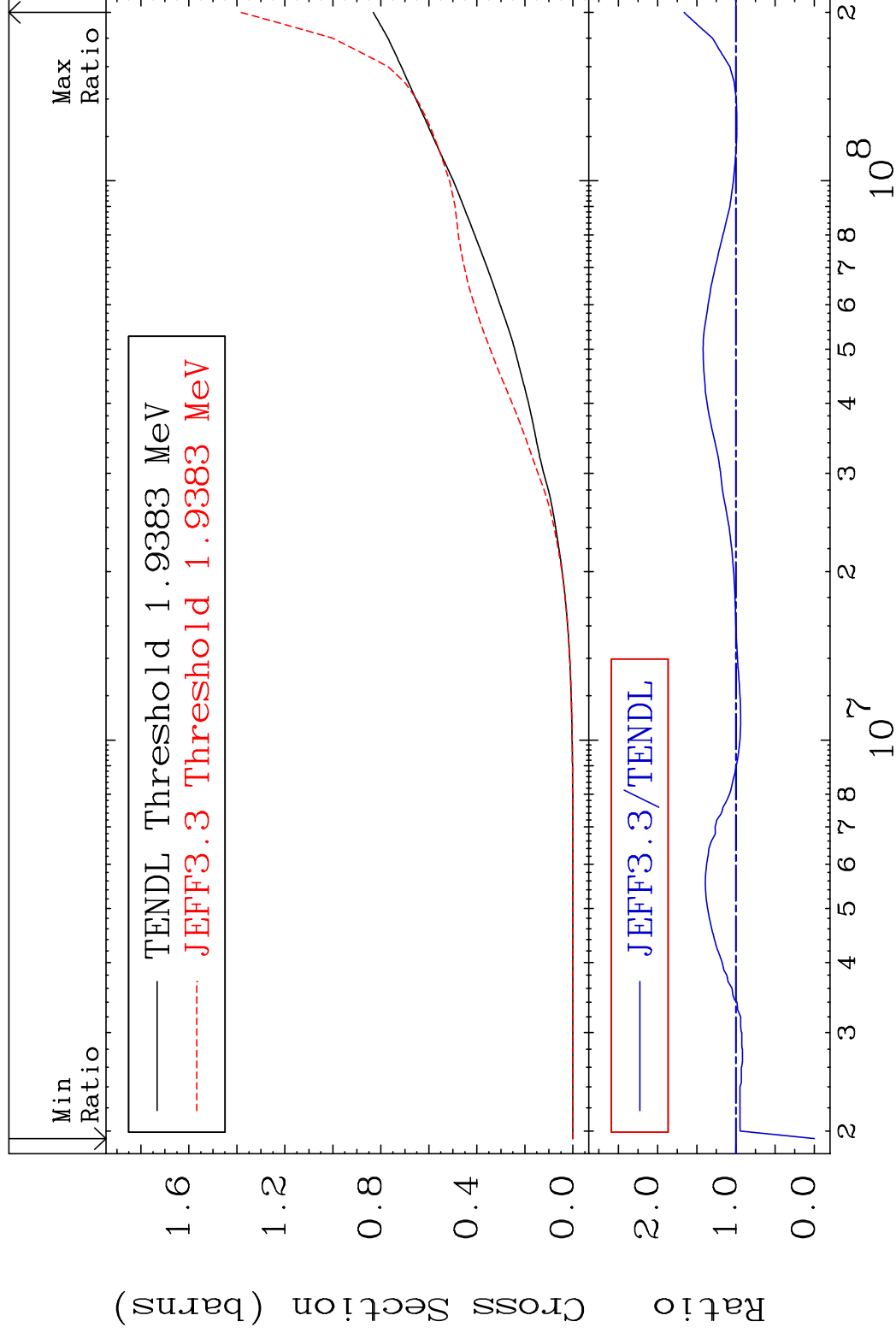
39-Y -91

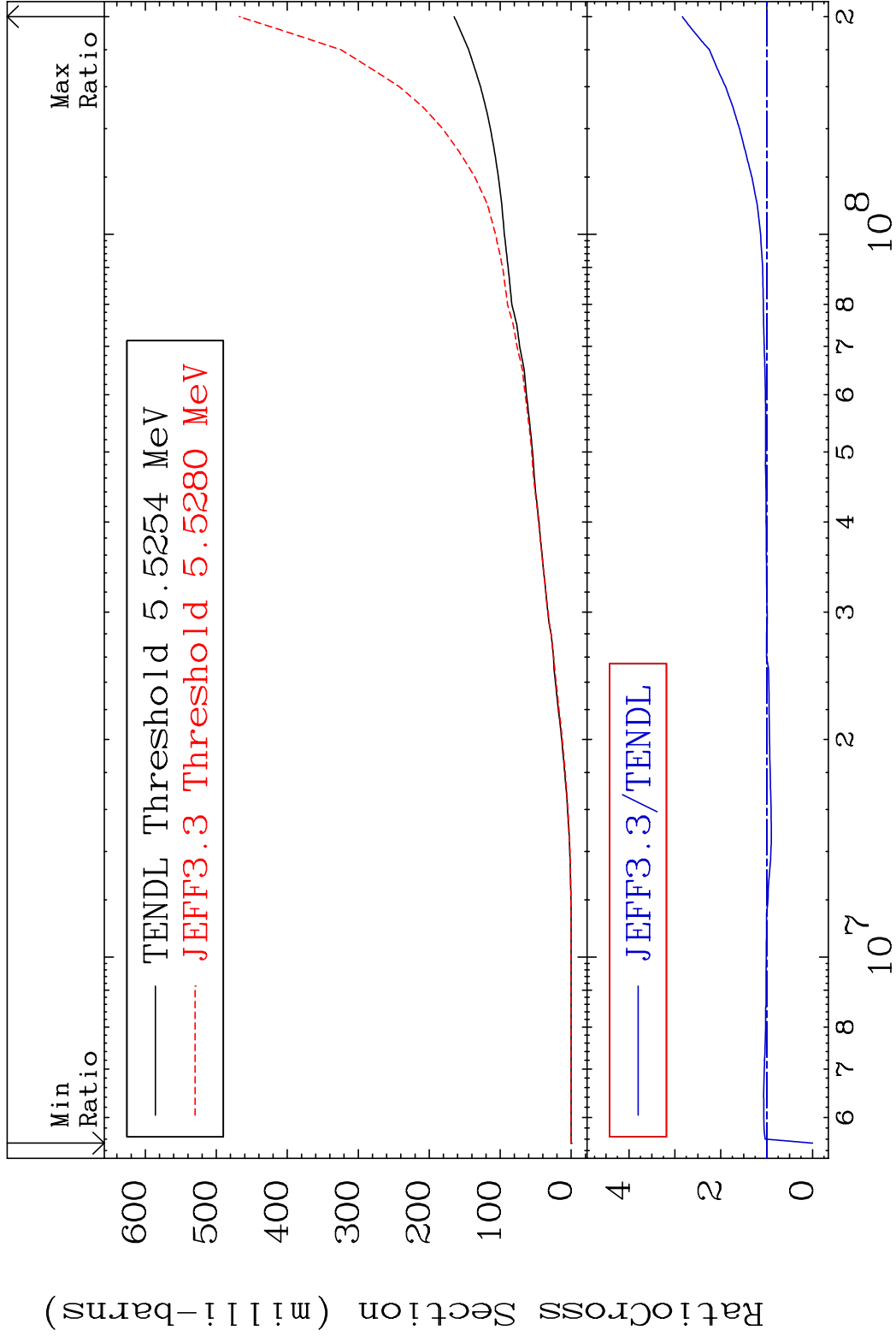
Cross Section

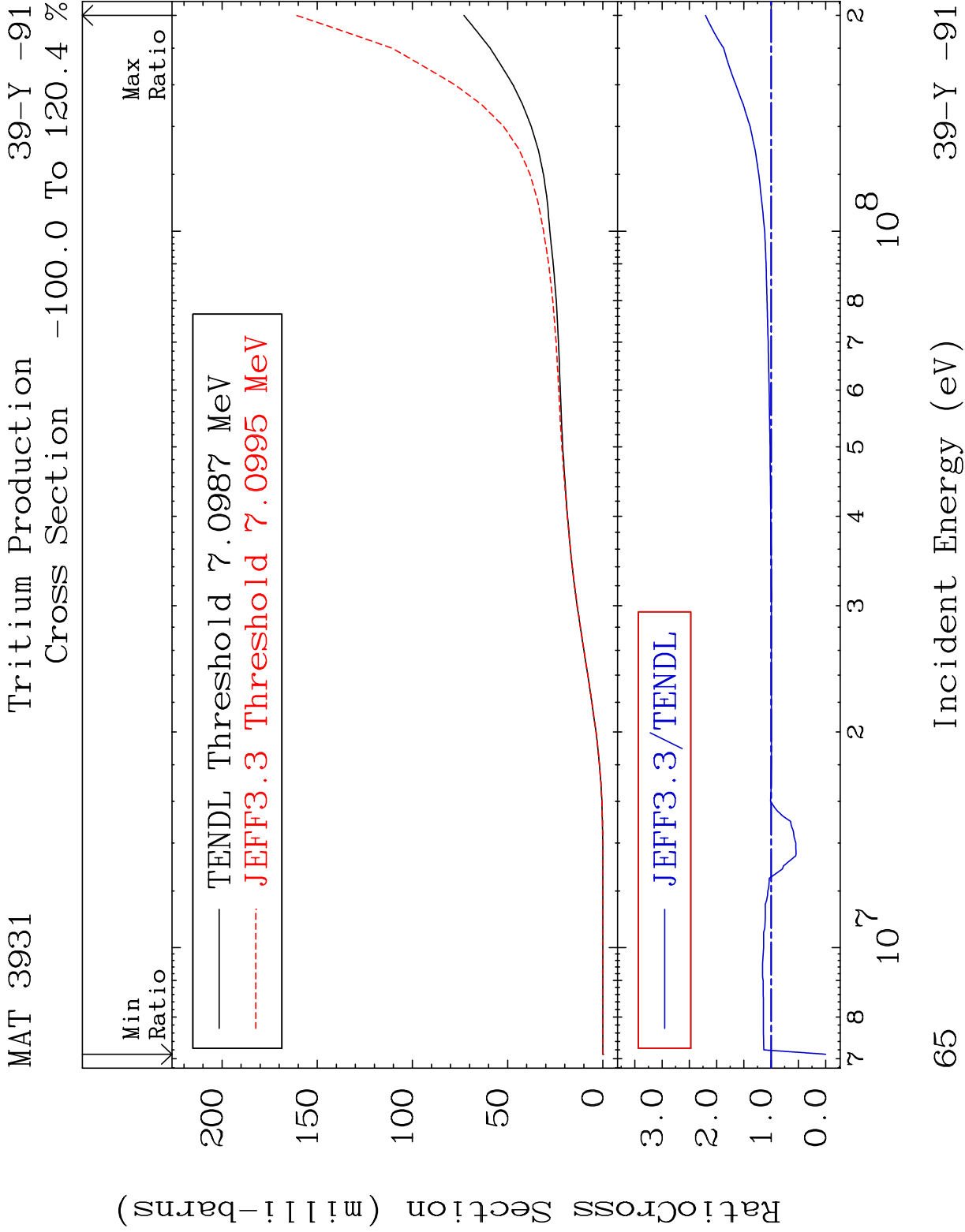


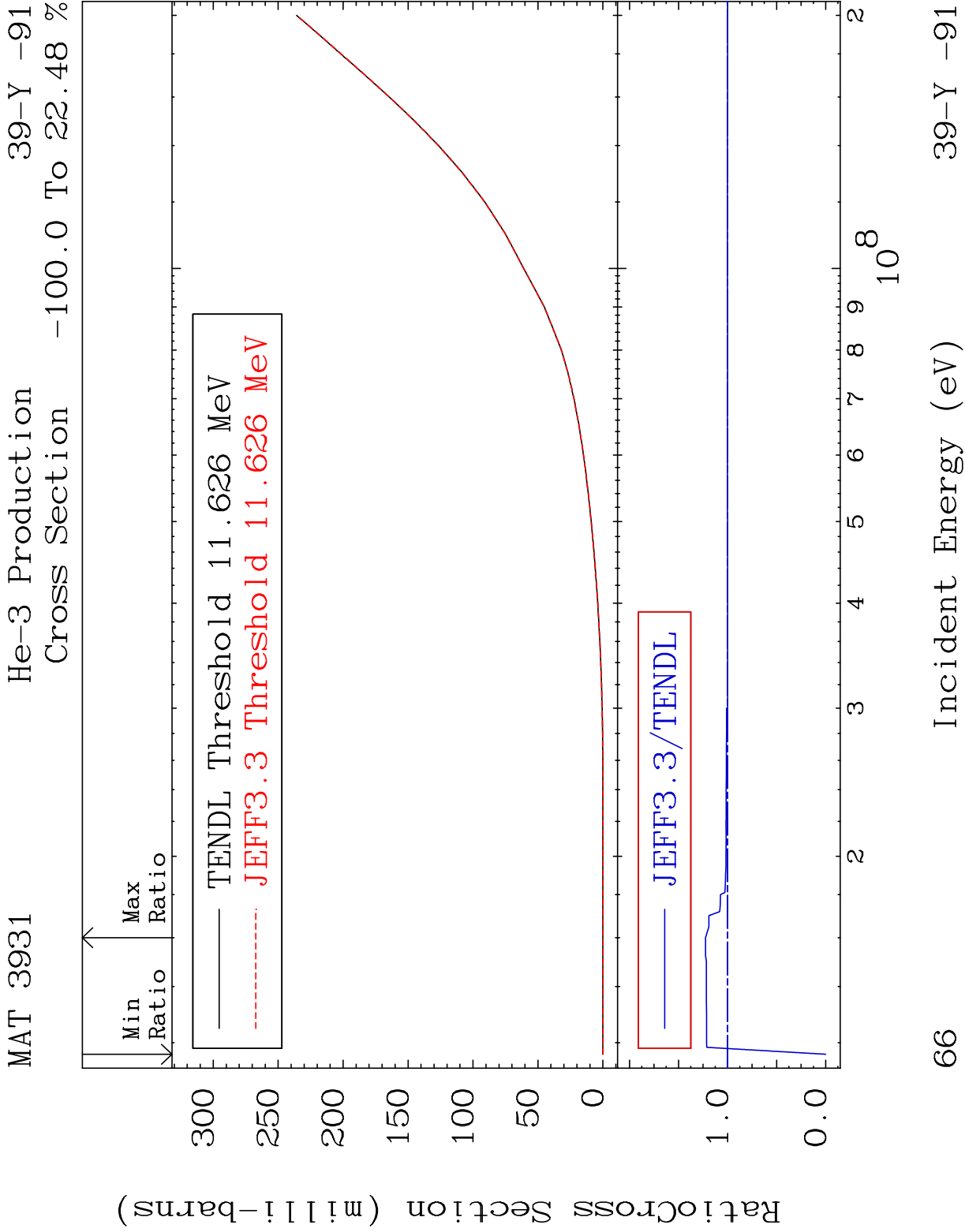










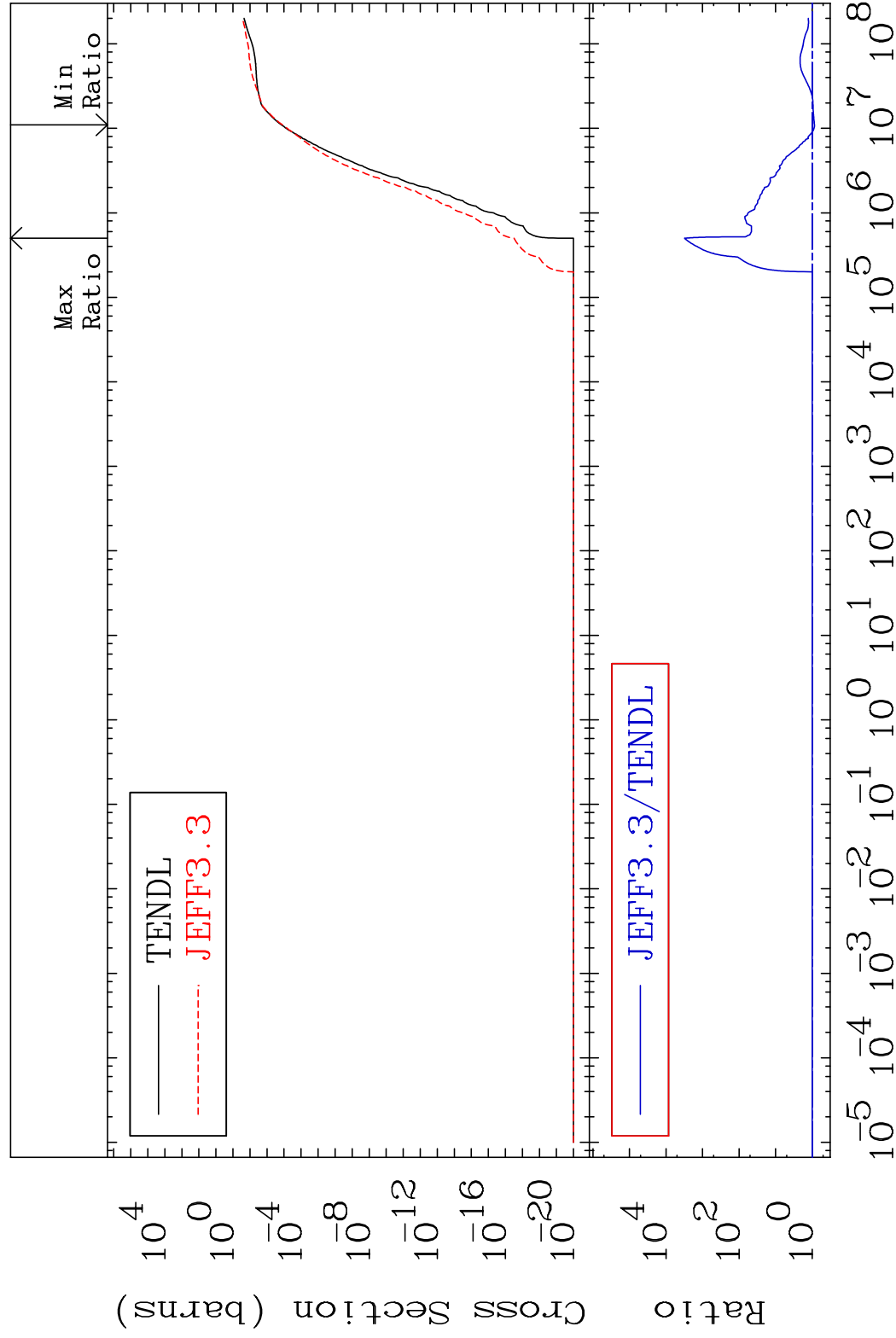


MAT 3931

He-4 Production

39-Y -91

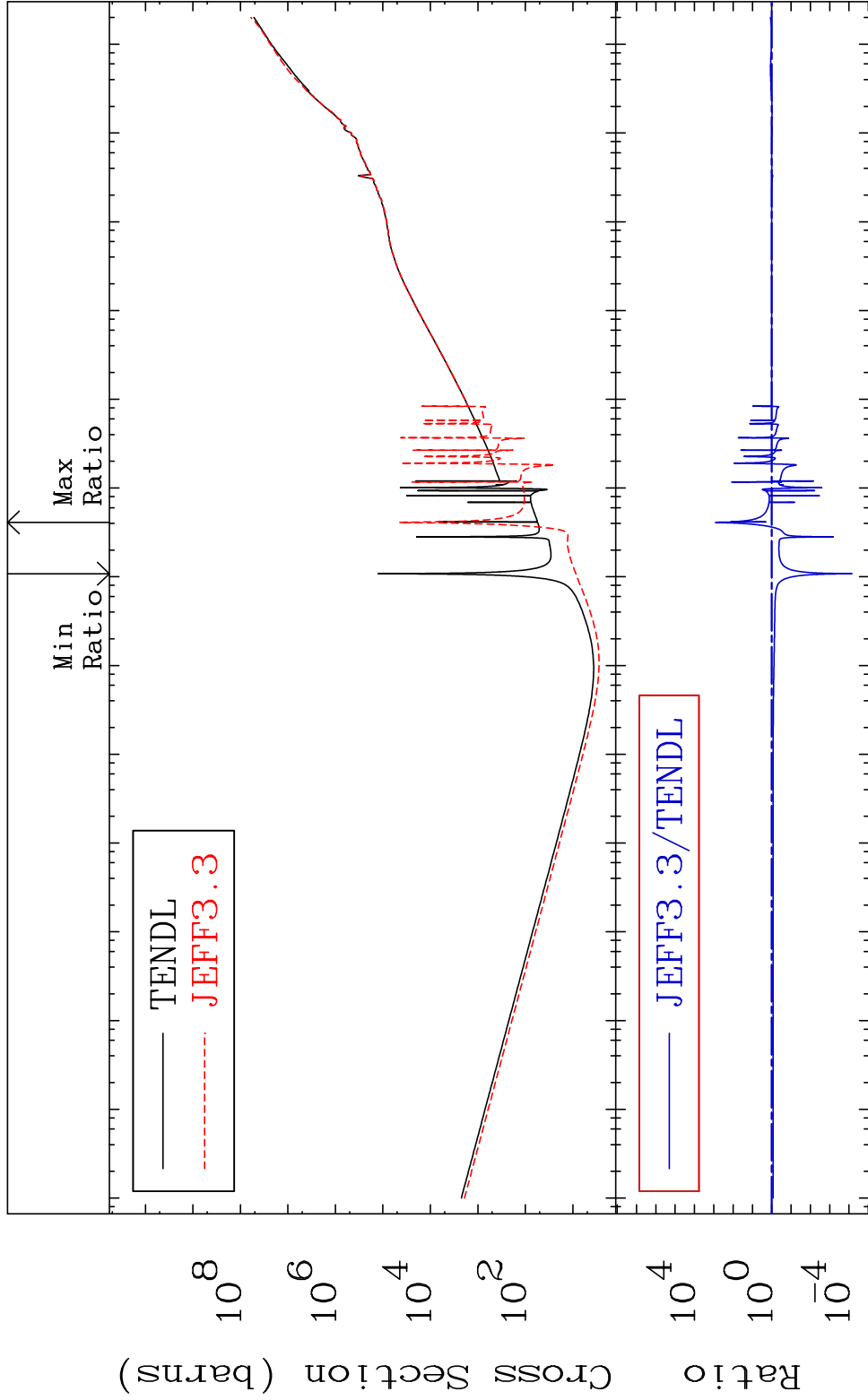
Cross Section -13.16 To 9999. %



67

Incident Energy (eV)

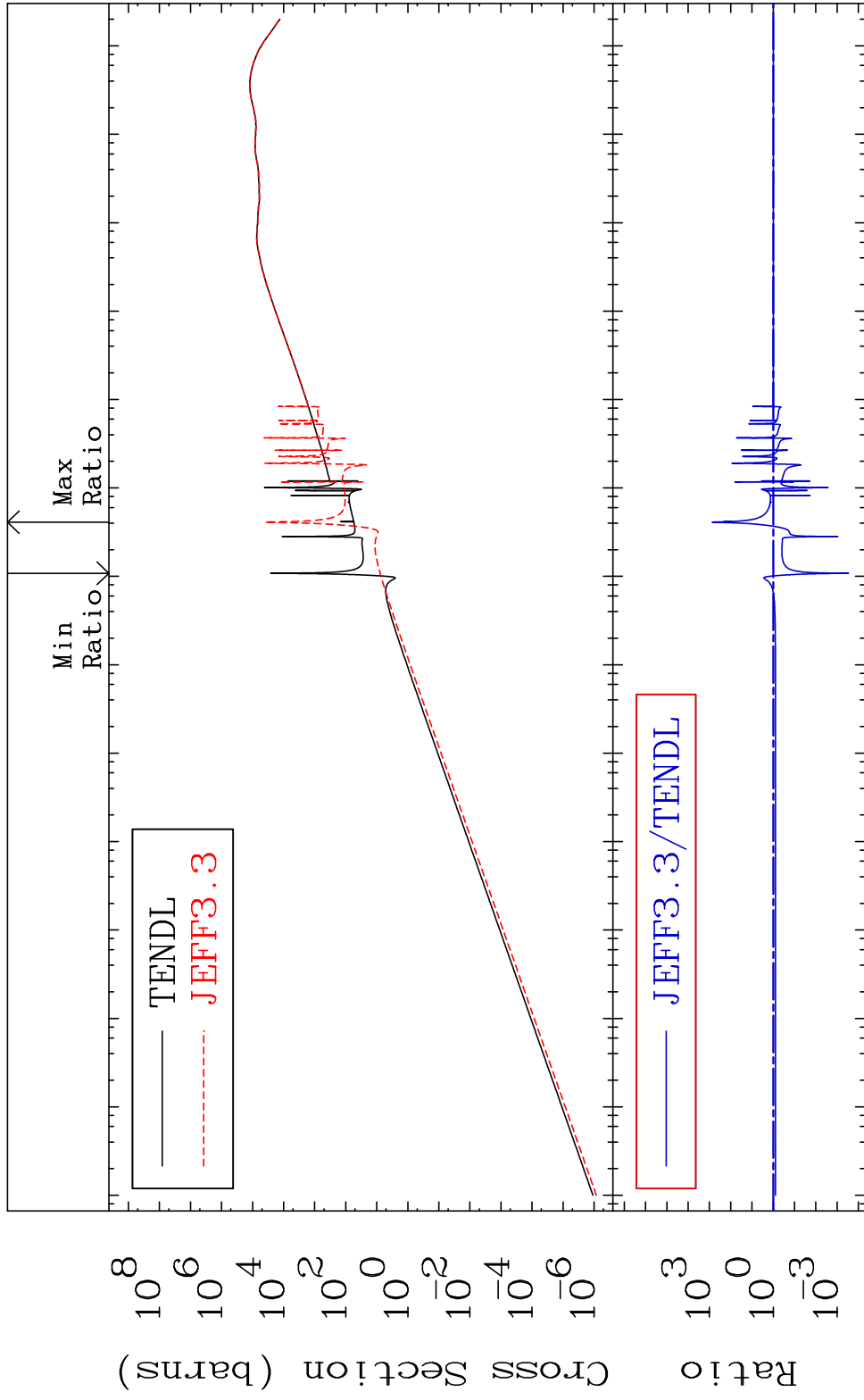
39-Y -91



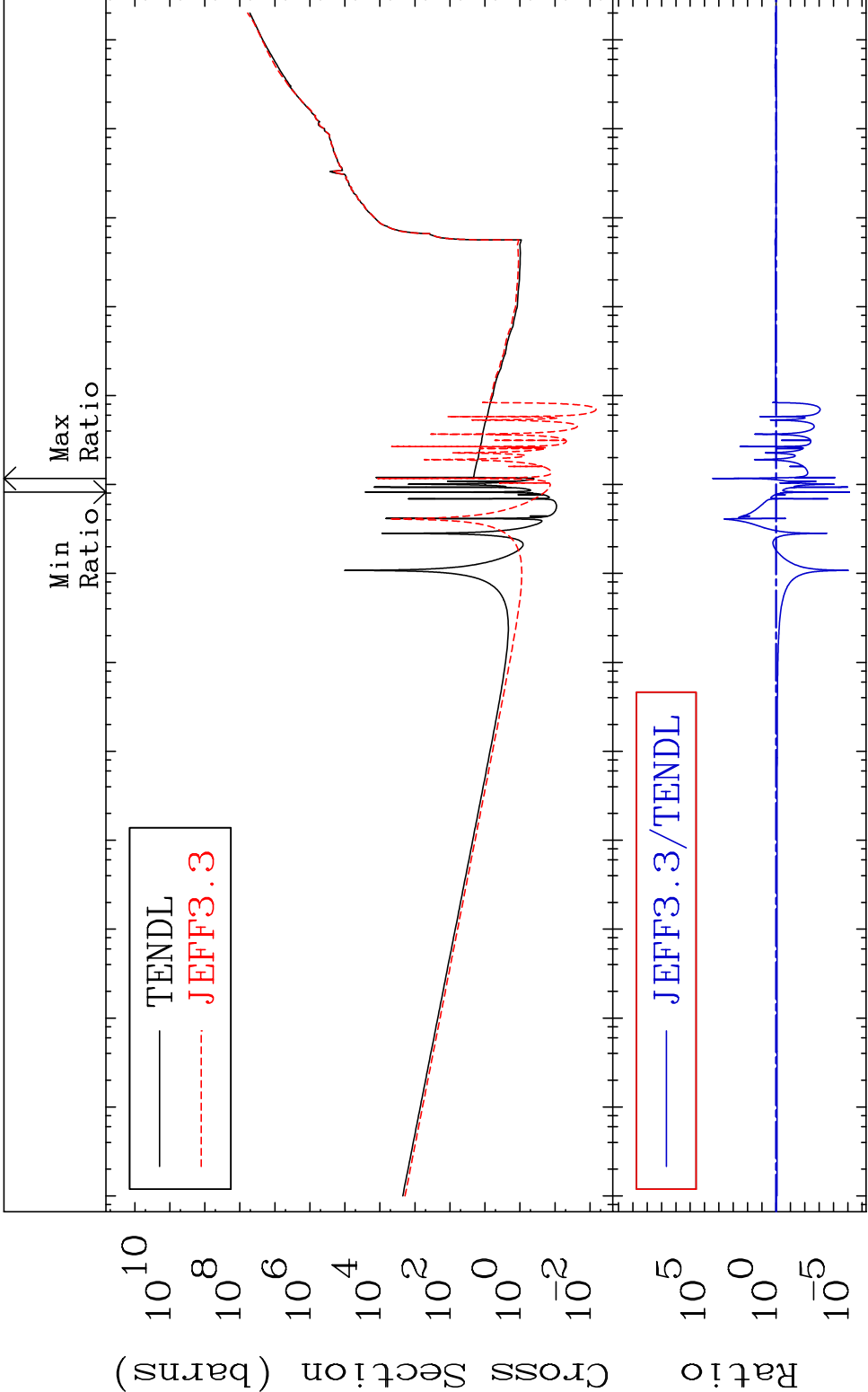
MAT 3931

Kerma elastic
Cross Section

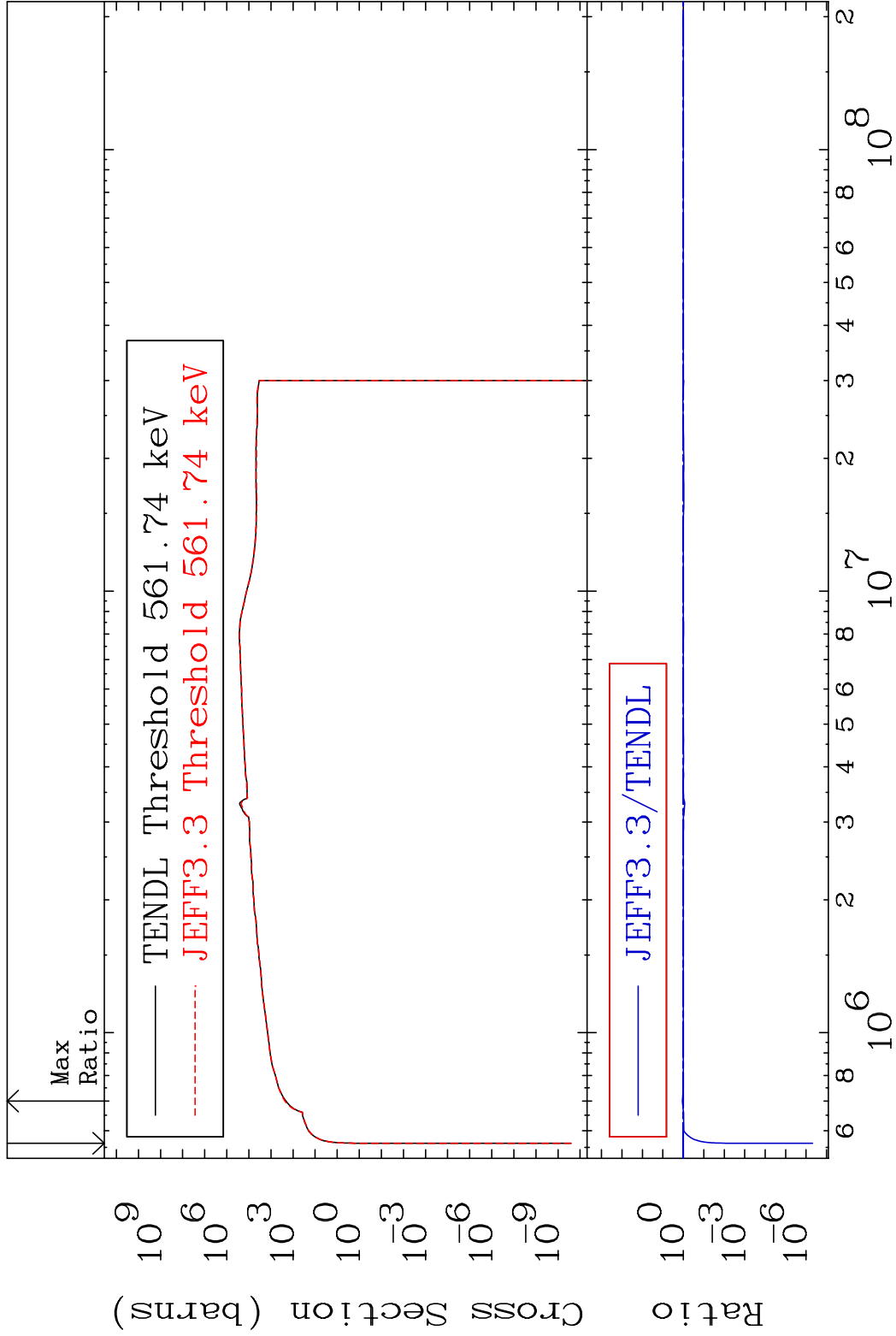
39-Y -91
-99.97 To 9999. %



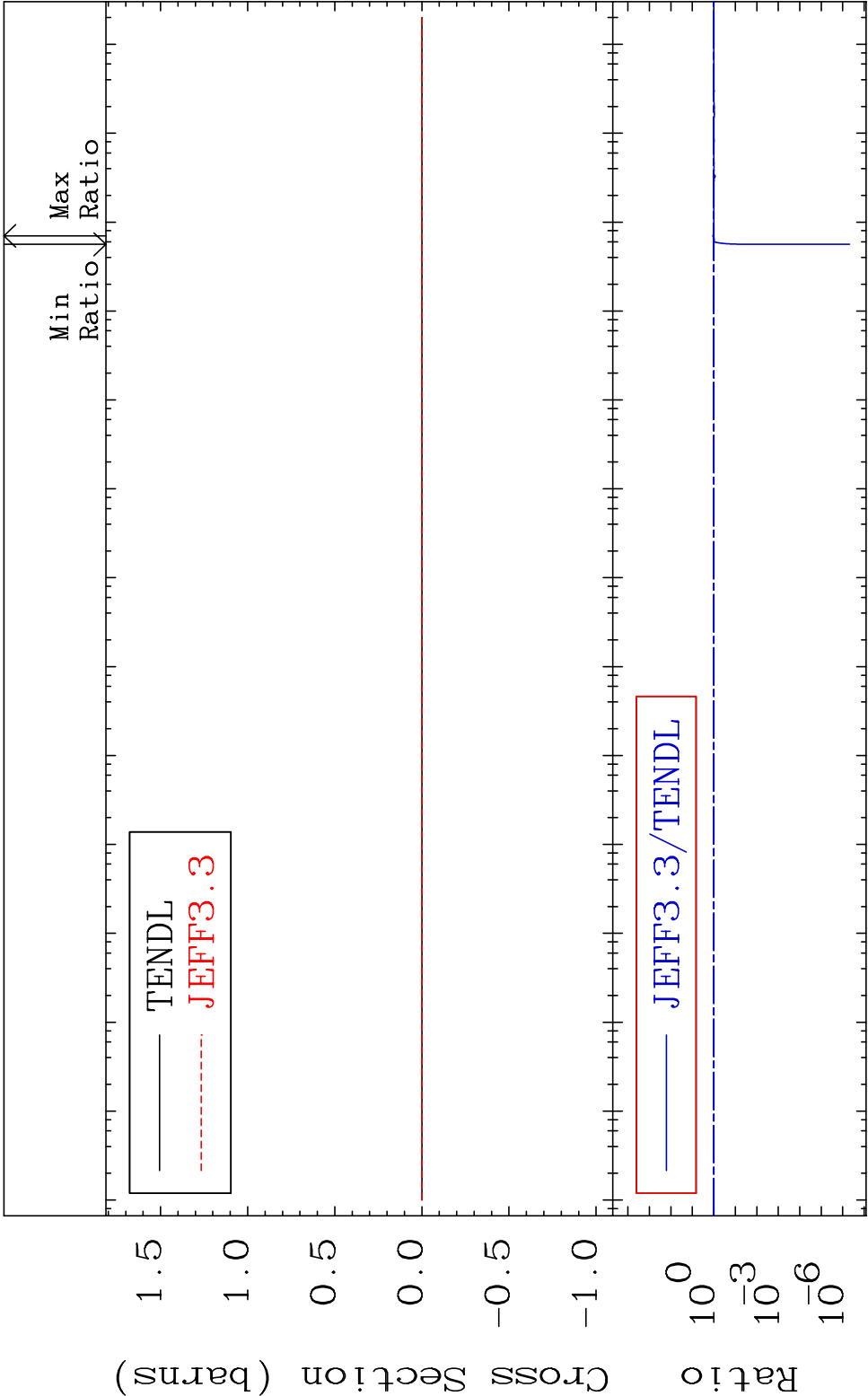
MAT 3931 Kerma non-elastic (all but mt2) 39-Y -91
Cross Section -100.0 To 9999. %



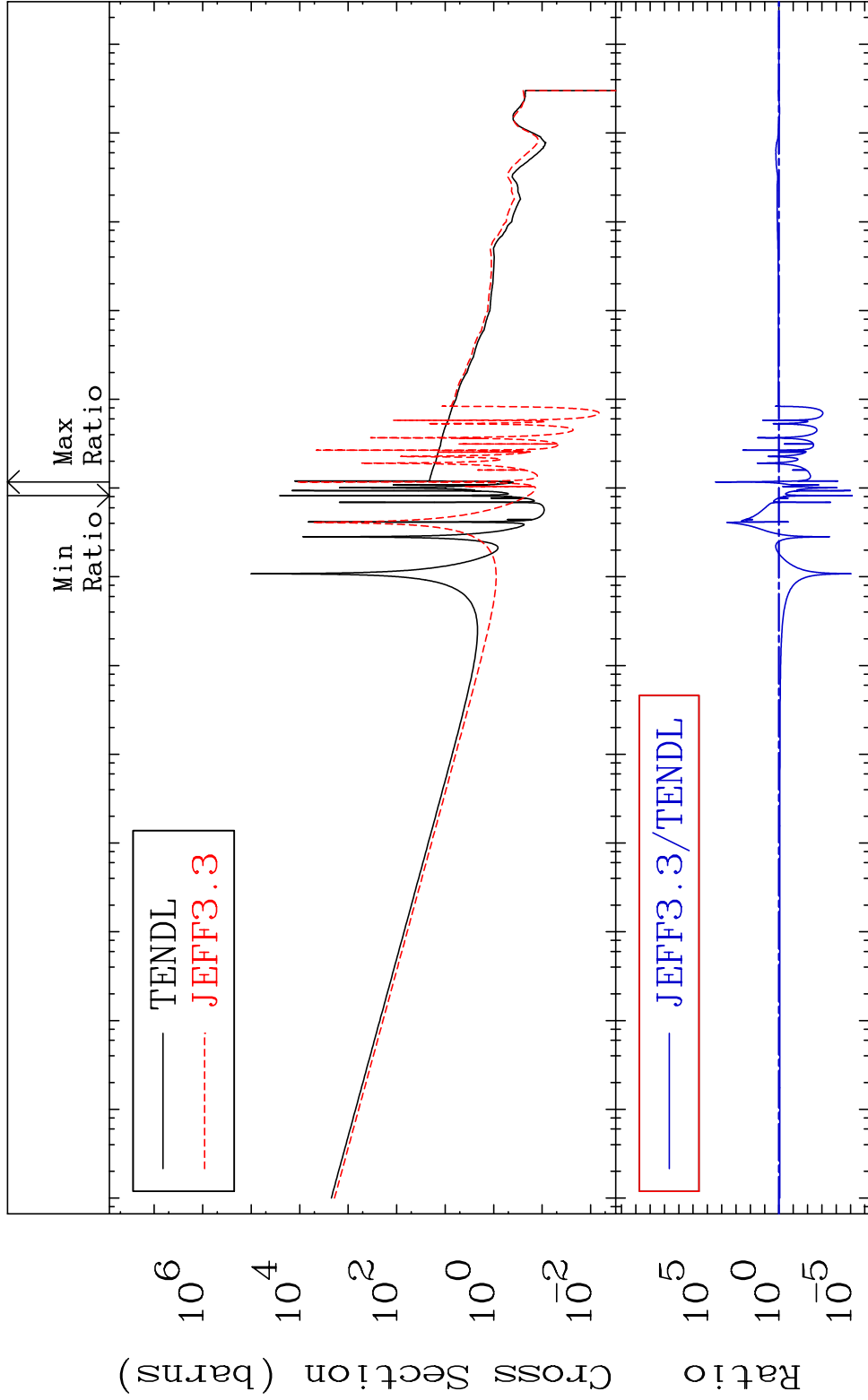
70 Incident Energy (eV) 39-Y -91



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

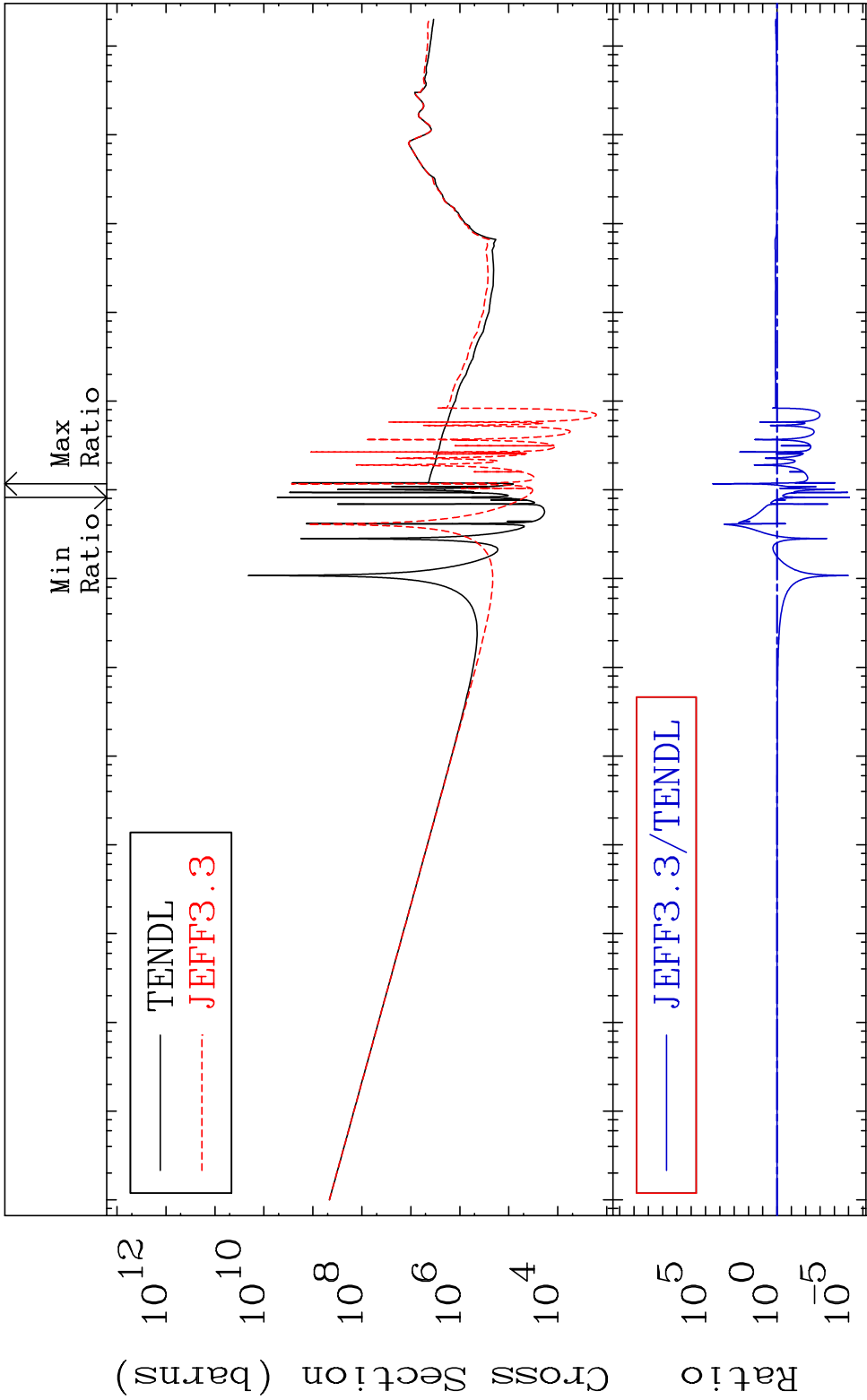


MAT 3931 Kerma capture (mt102) 39-Y -91
Cross Section -100.0 To 9999. %



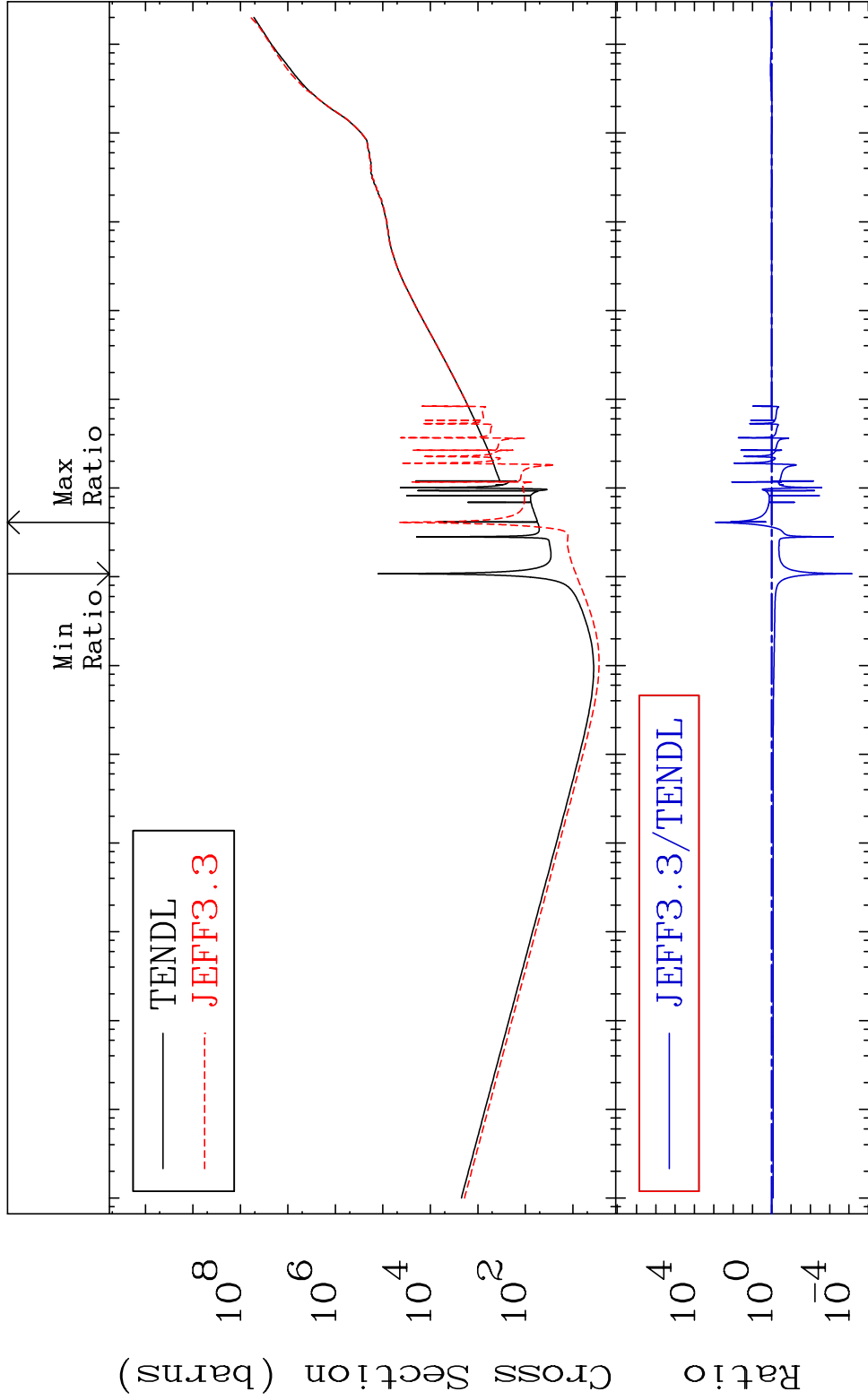
73 Incident Energy (eV) 39-Y -91

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

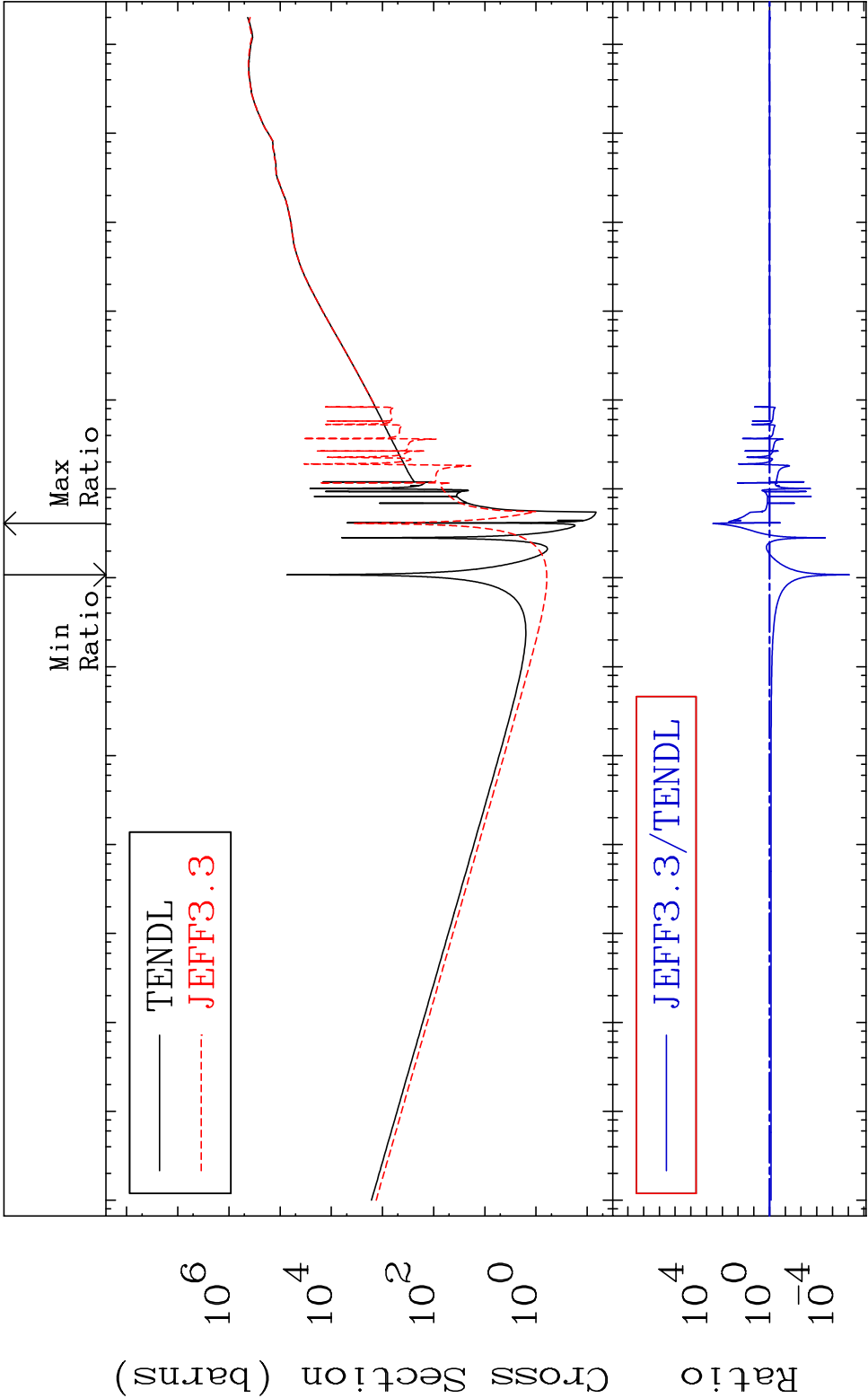


74 Incident Energy (eV) 39-Y -91

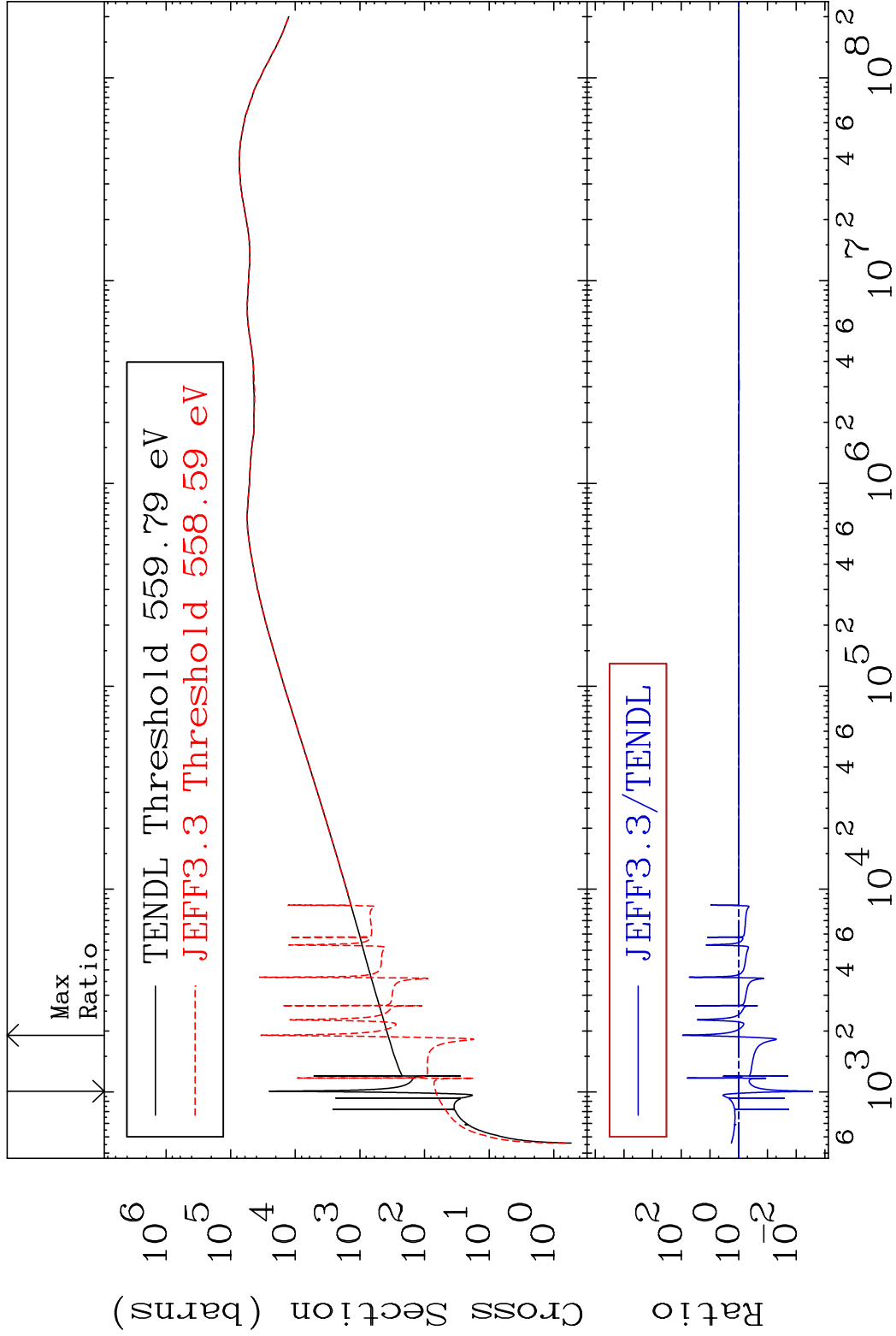
MAT 3931 Total kinematic kerma (high limit) 39-Y -91
Cross Section -99.99 To 9999. %

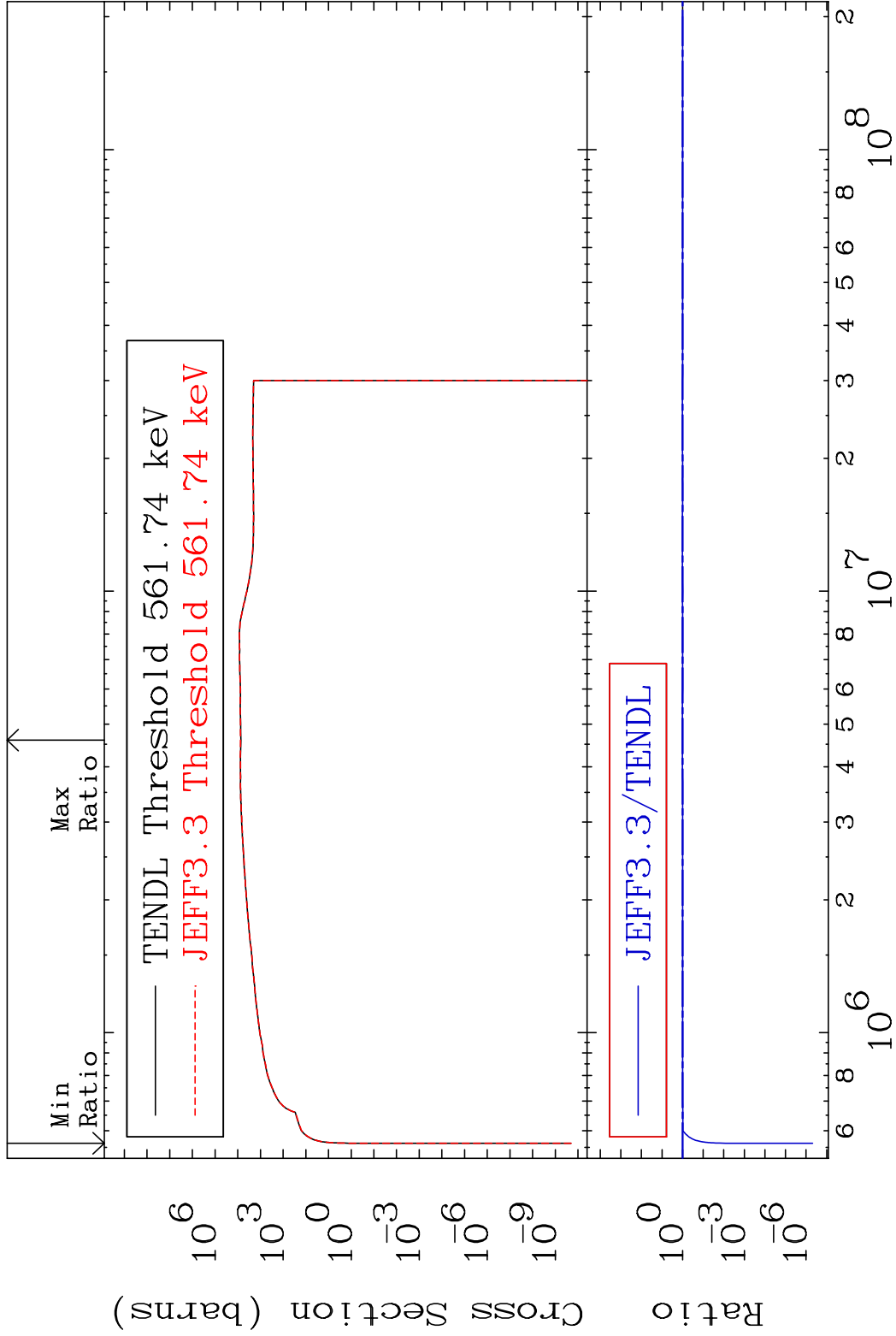


MAT 3931 Dpa total (eV-barns) 39-Y -91
 Cross Section -100.0 To 9999. %

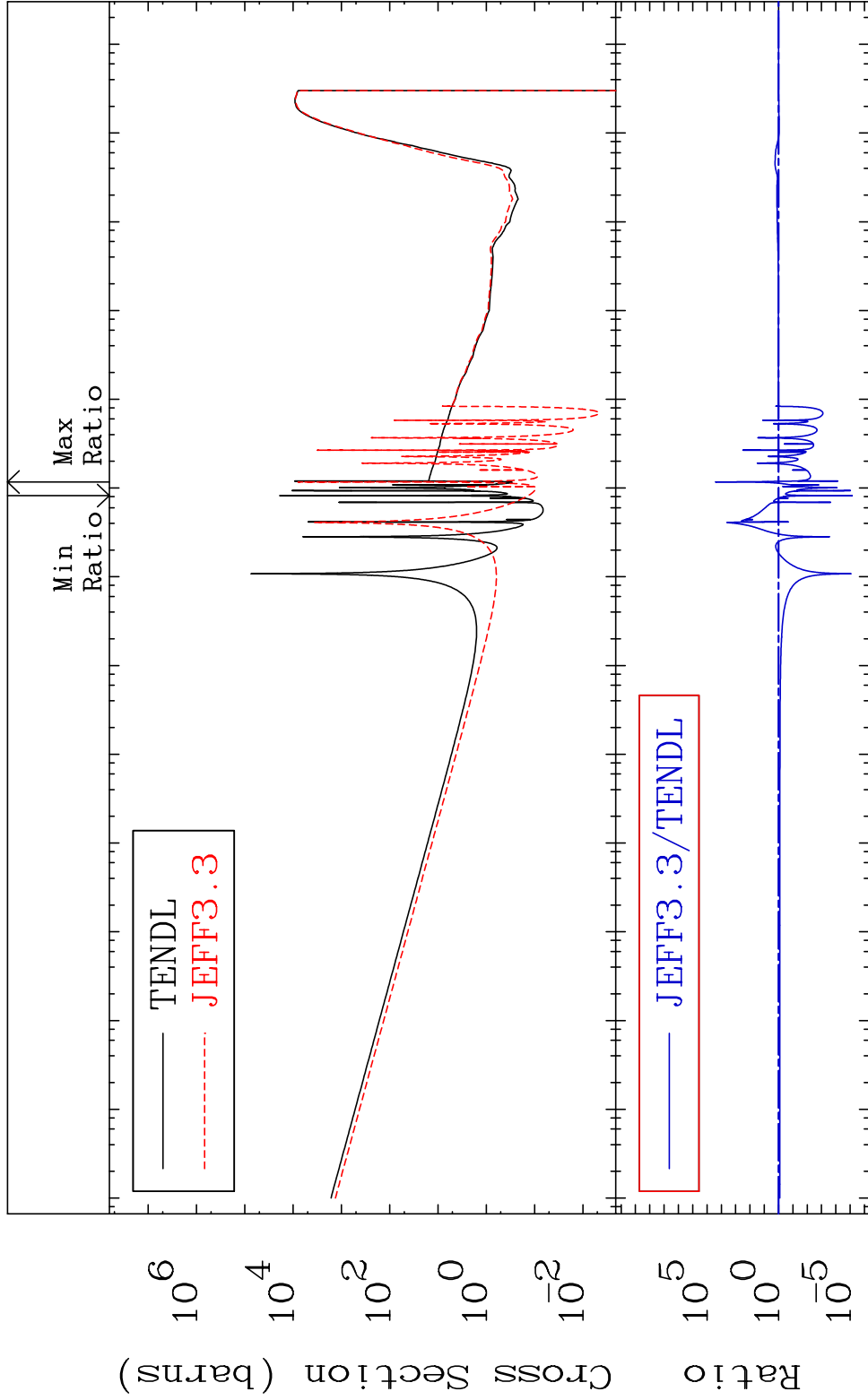


76 Incident Energy (eV) 39-Y -91

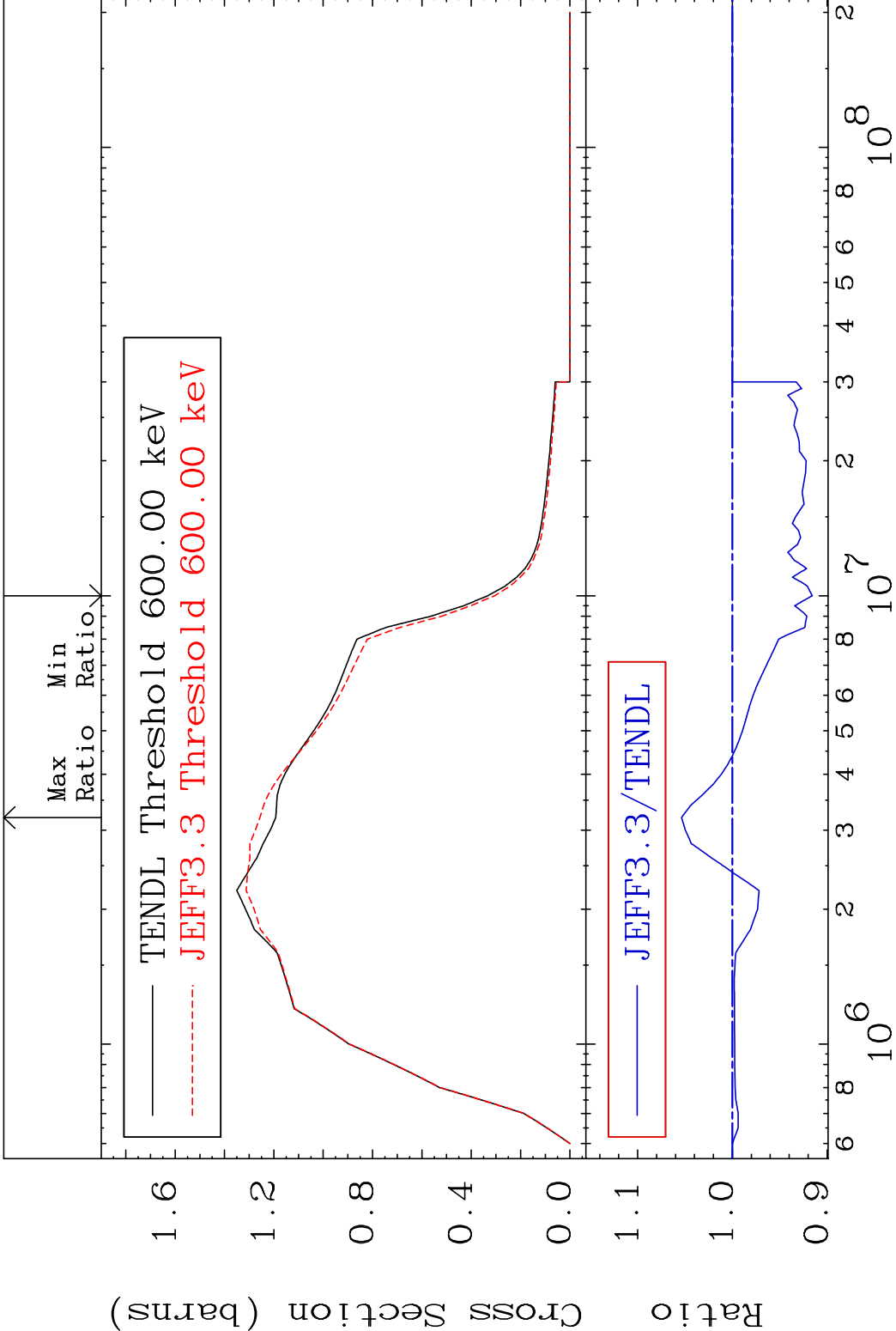


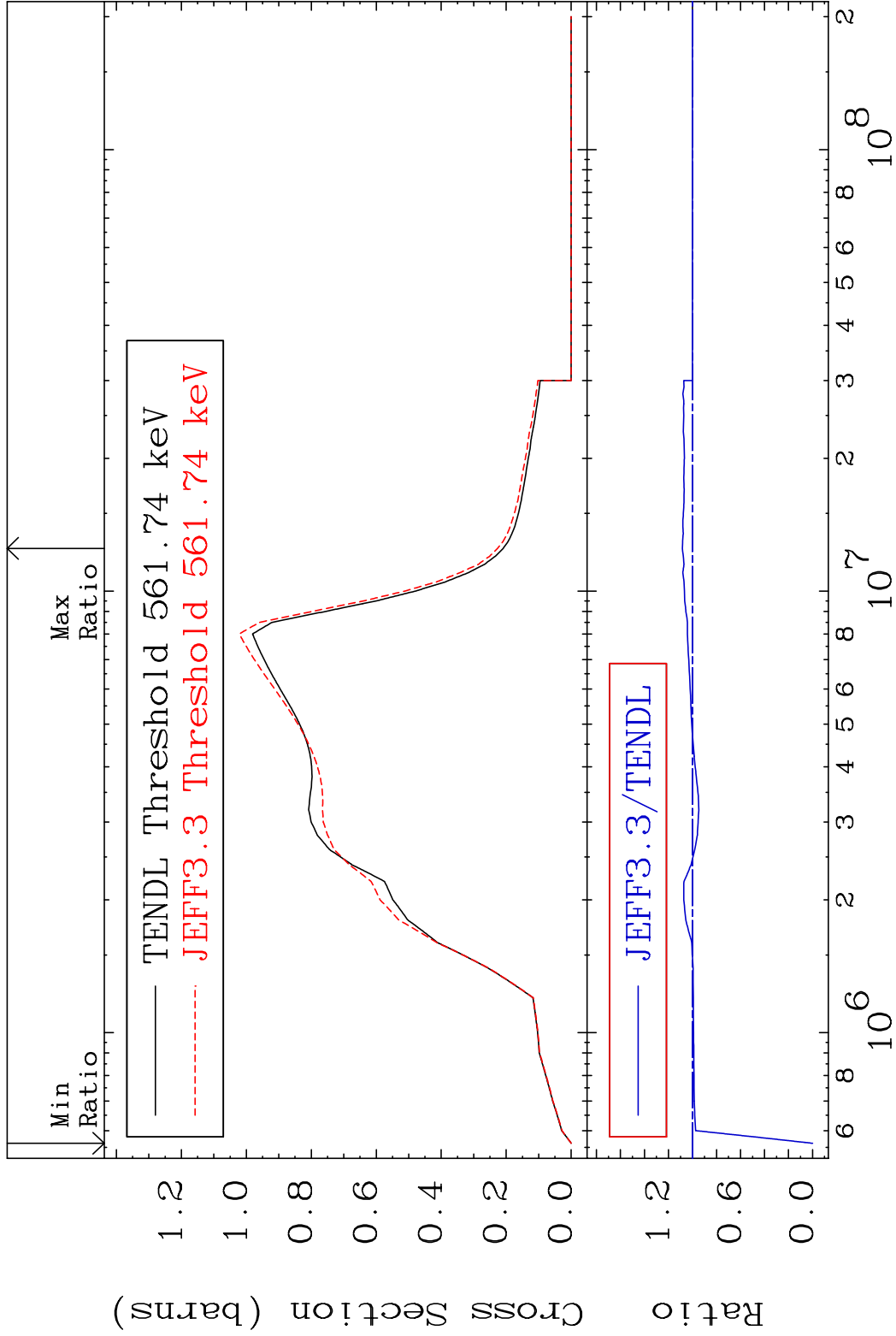


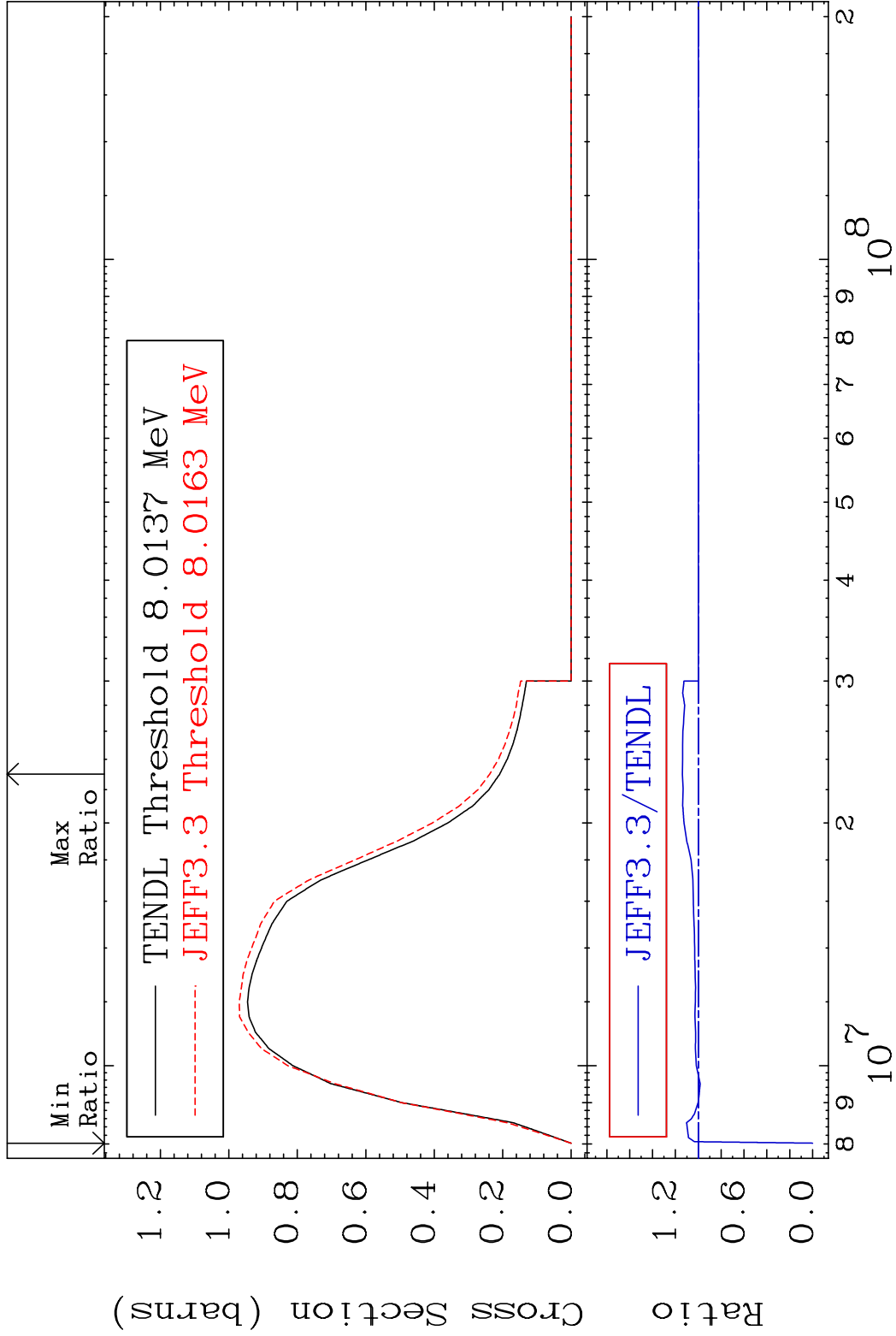
MAT 3931 Dpa disappearance (mt102 -120) 39-Y -91
Cross Section -100.0 To 9999. %

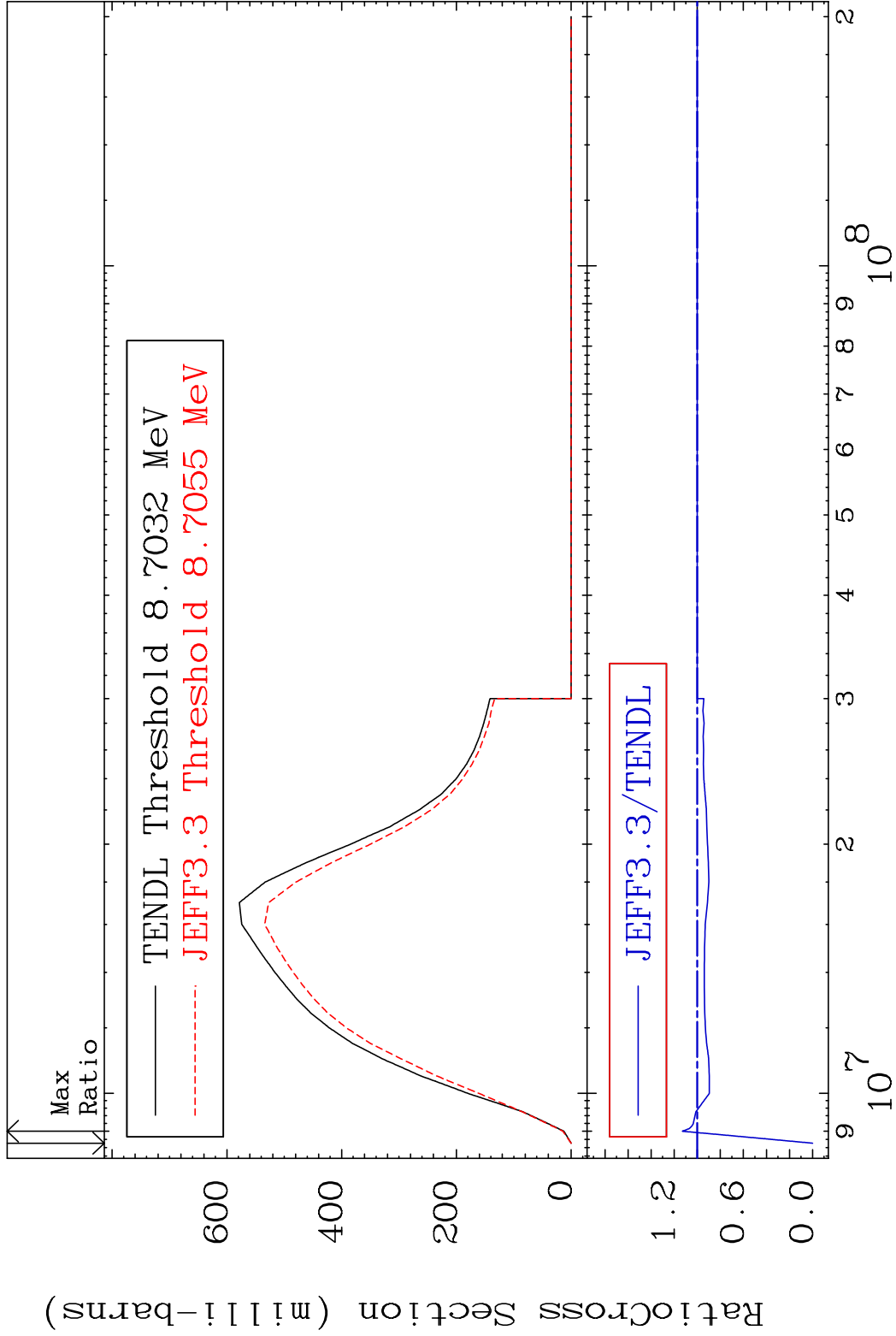


10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
79 Incident Energy (eV) 39-Y -91

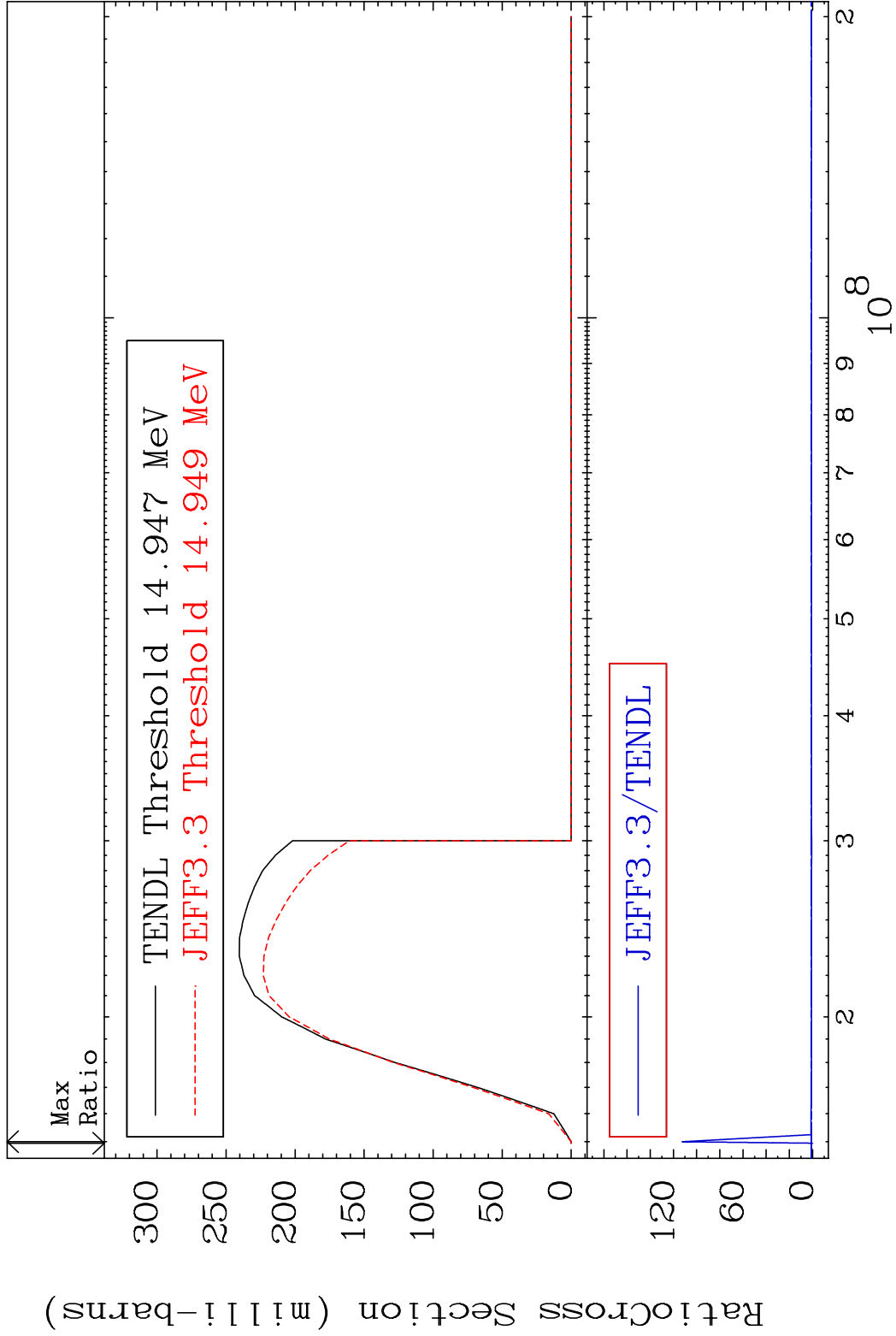


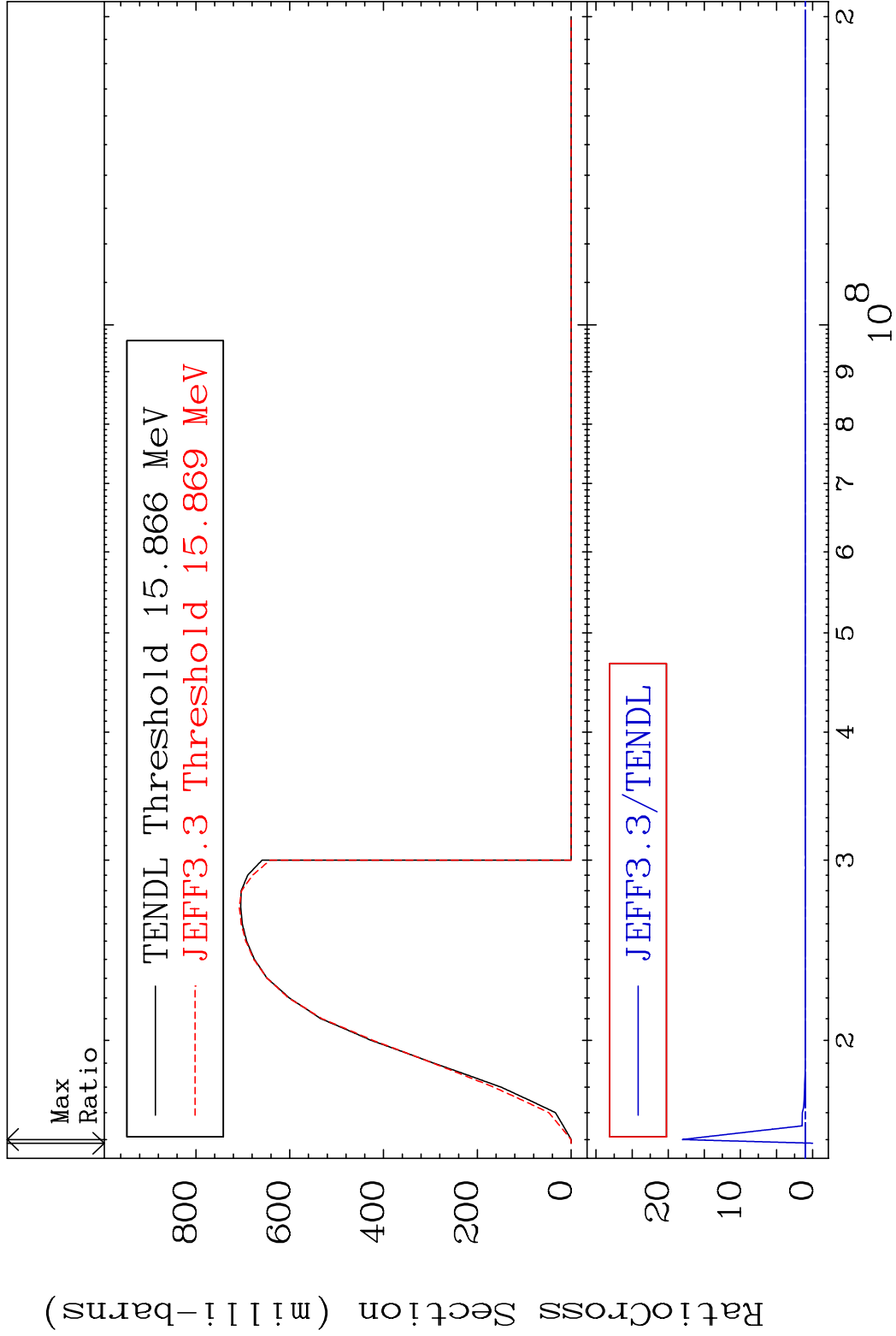


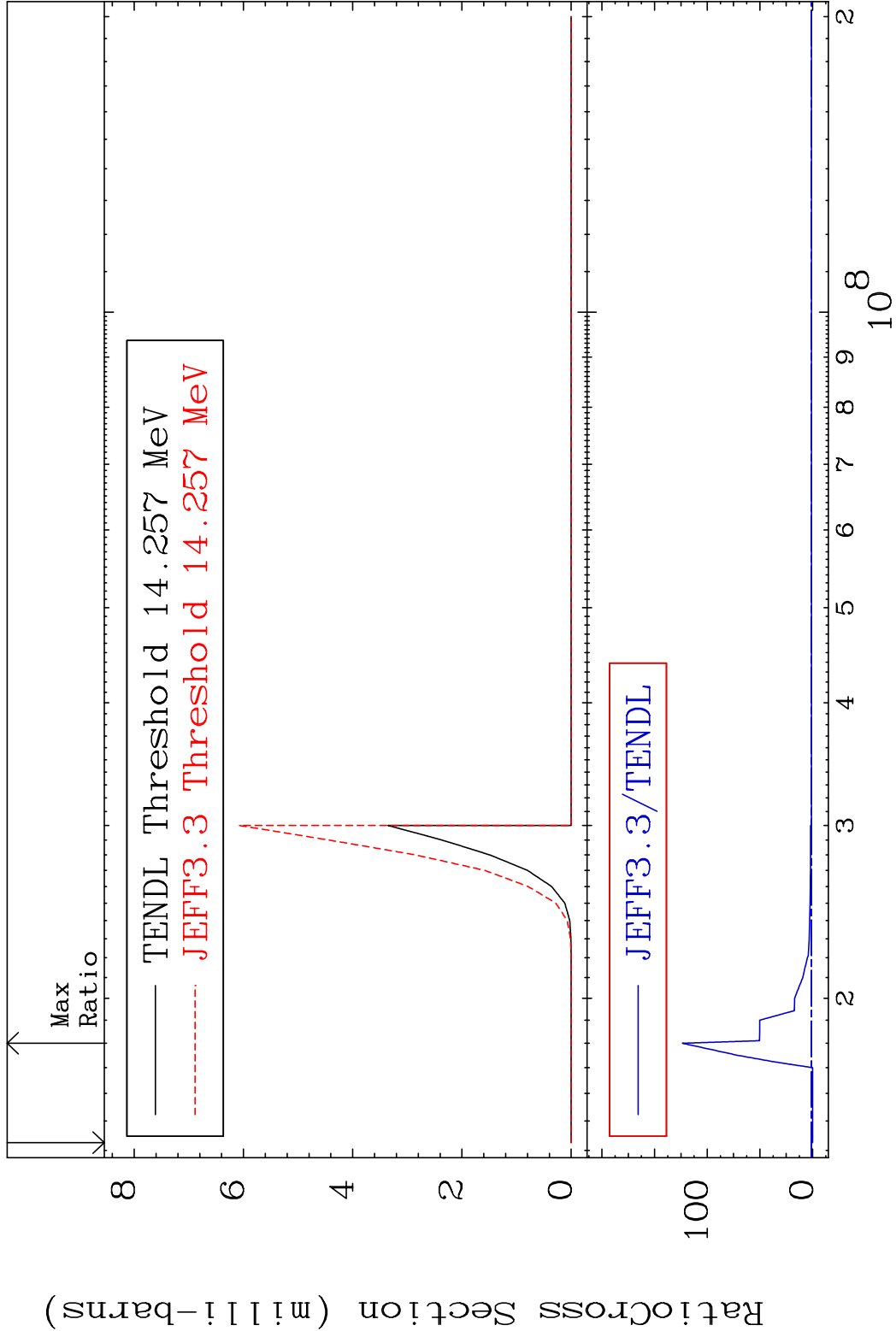


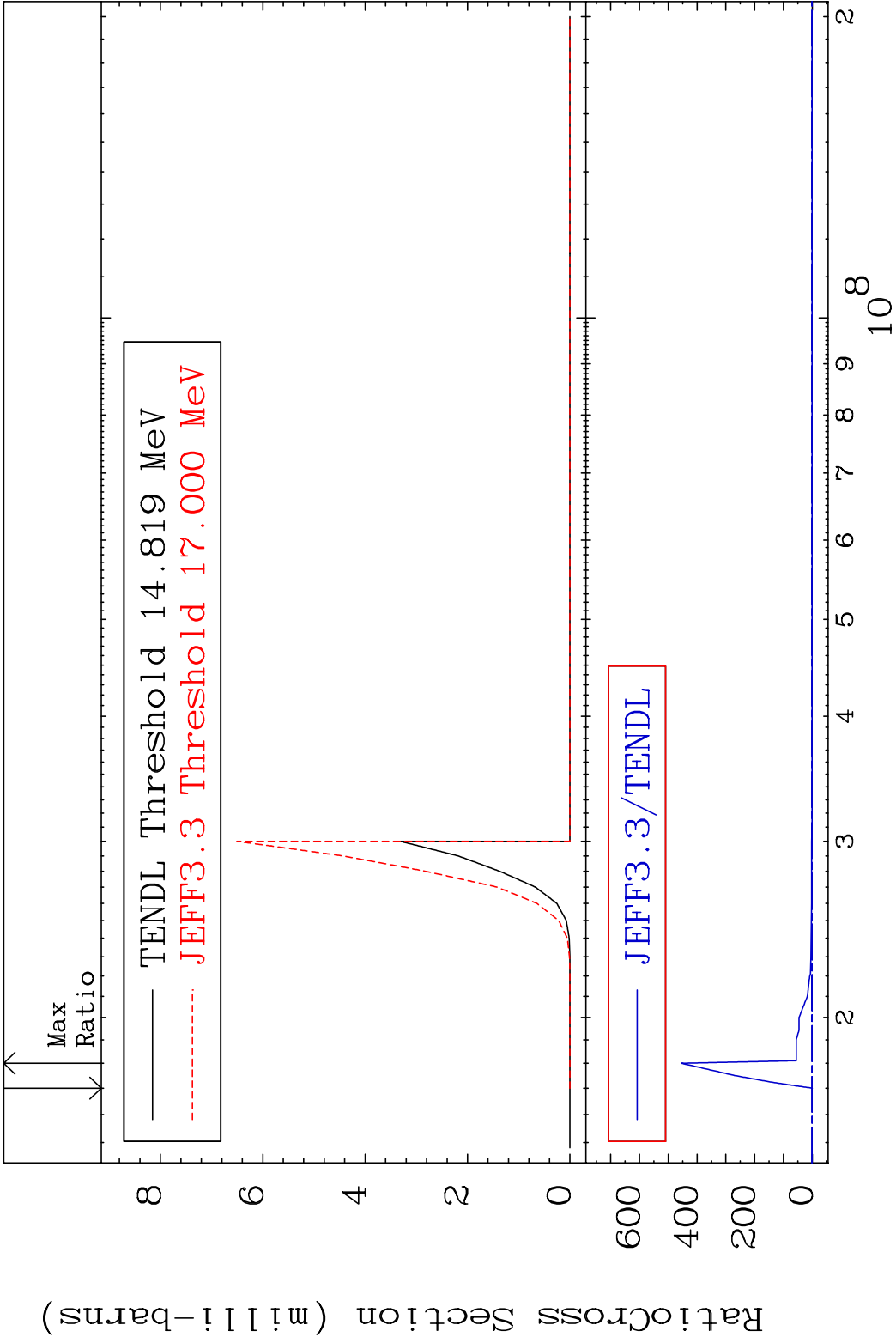


Radionuclide Production Cross Section (mb) to 9999. %









Radionuclide Production Cross Section (barns)

