

Program Complot  
(Version 2021-1)

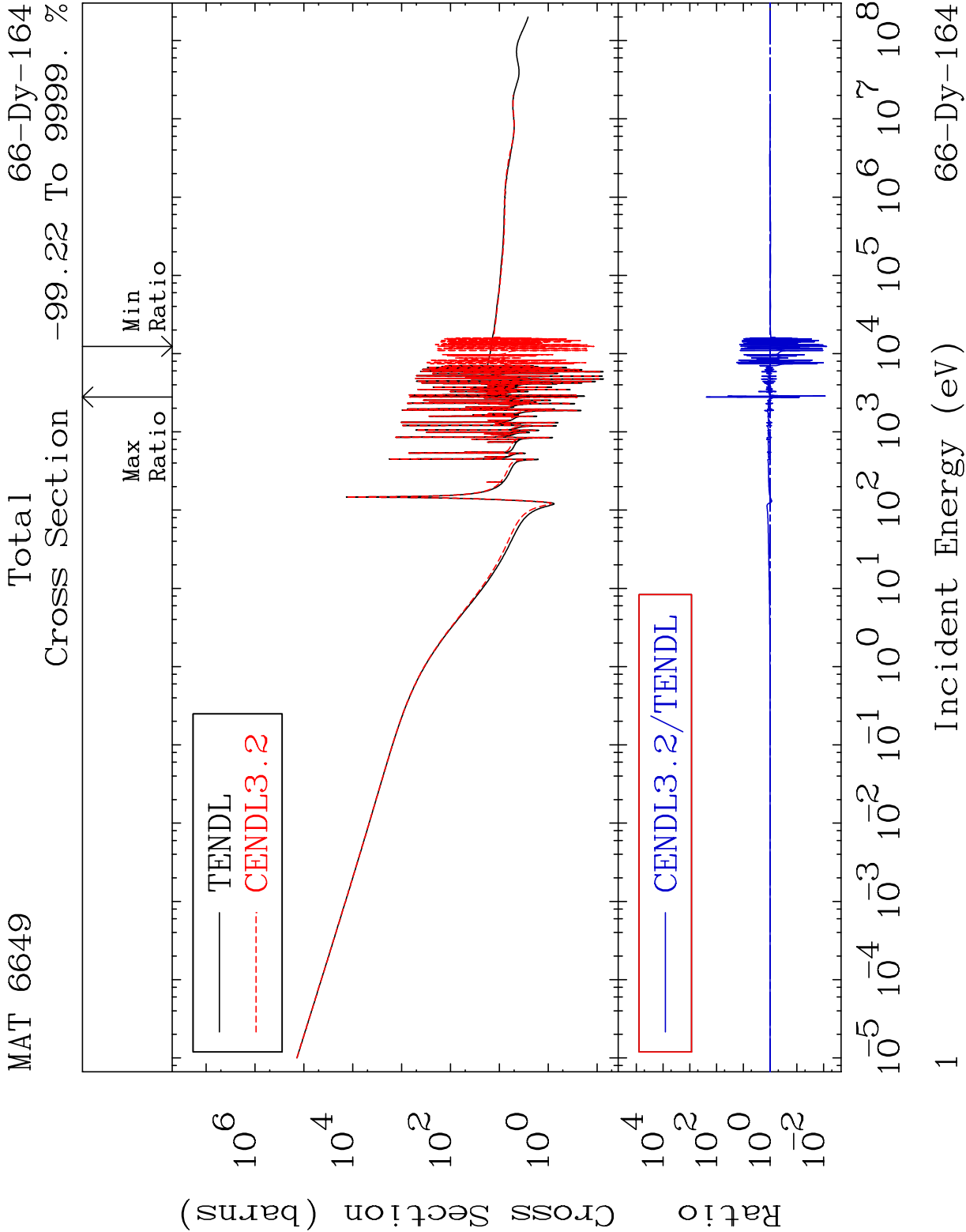
by

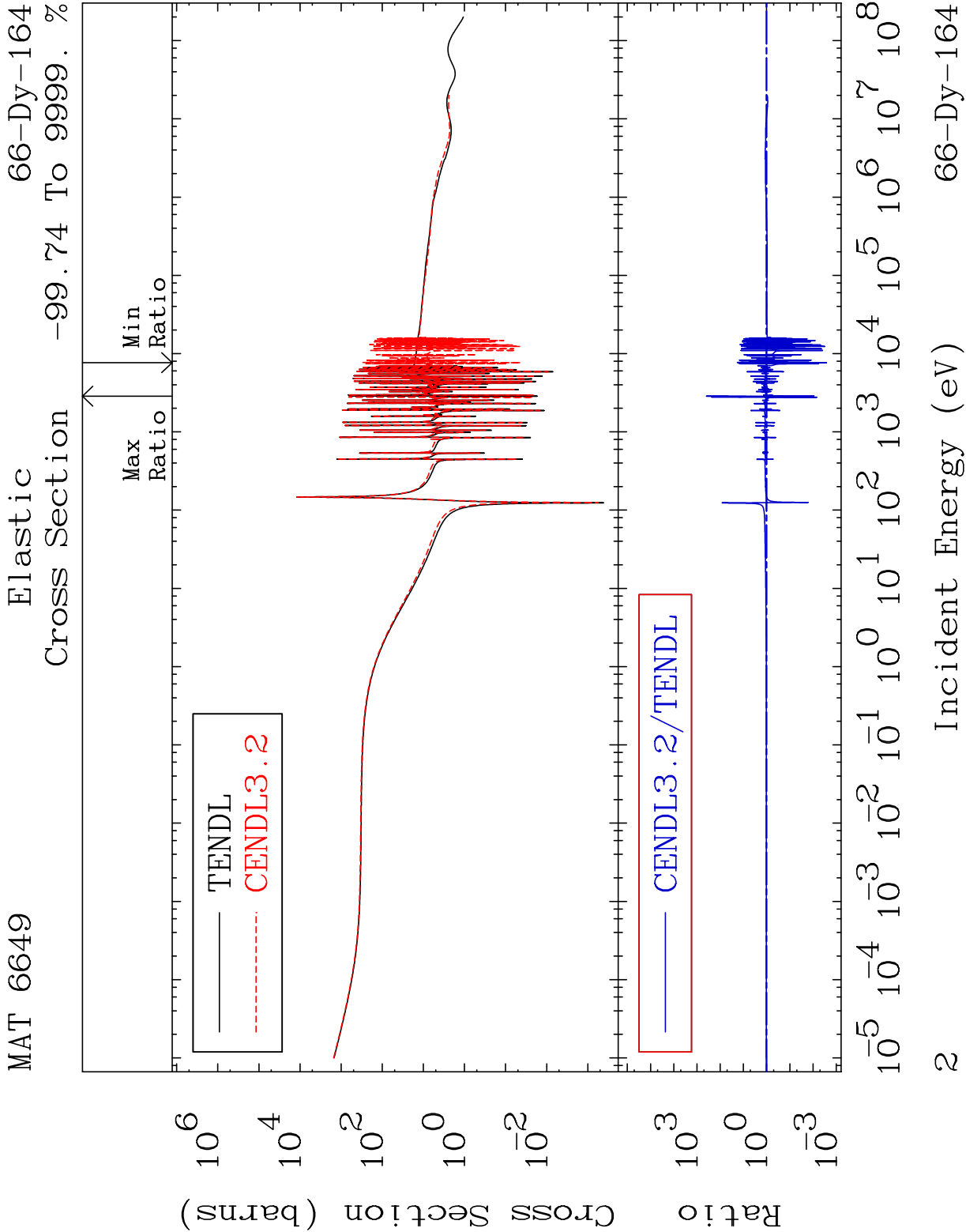
Dermott E. Cullen  
(Present Contact Information)

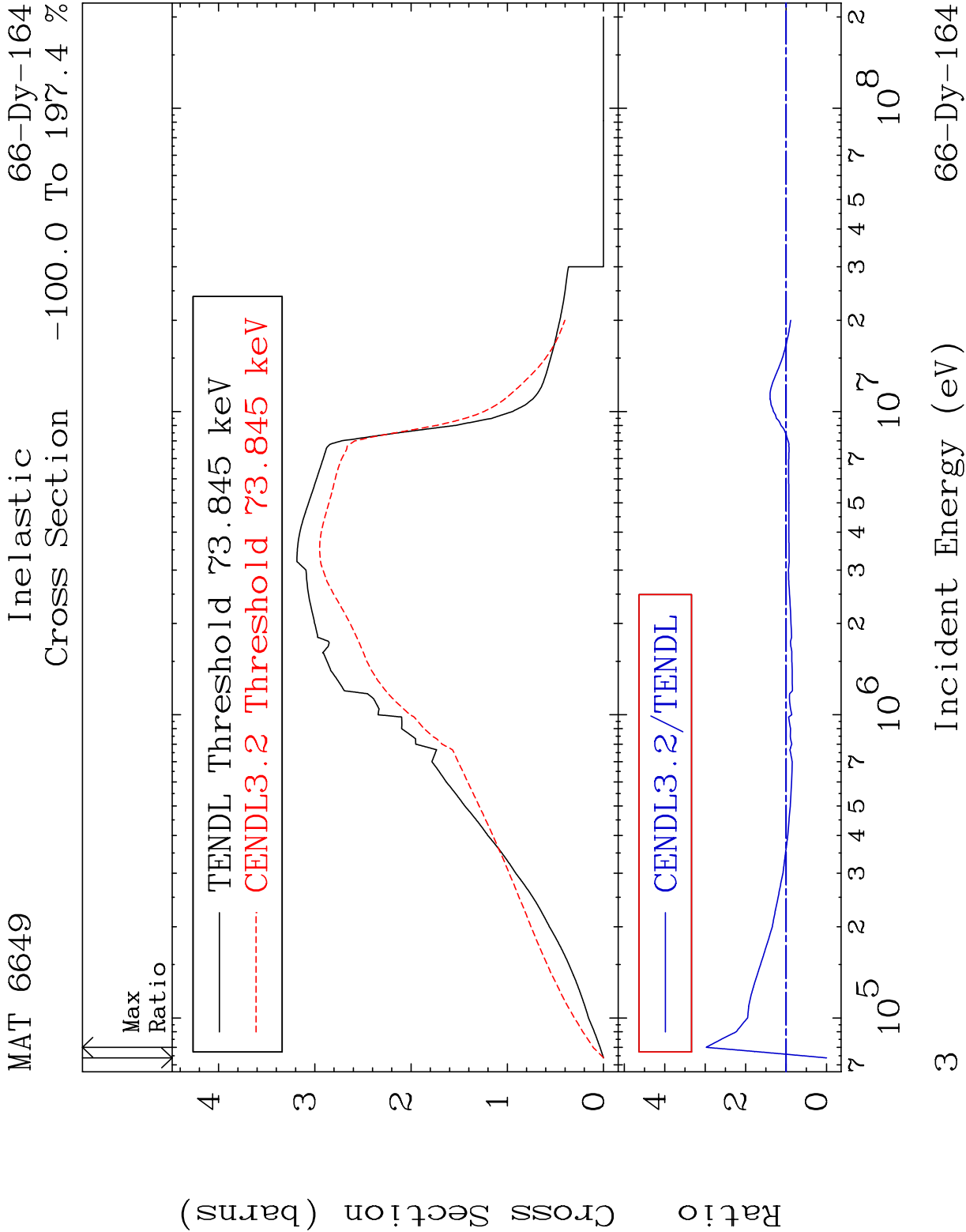
Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550  
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Tele: 925-443-1911  
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start





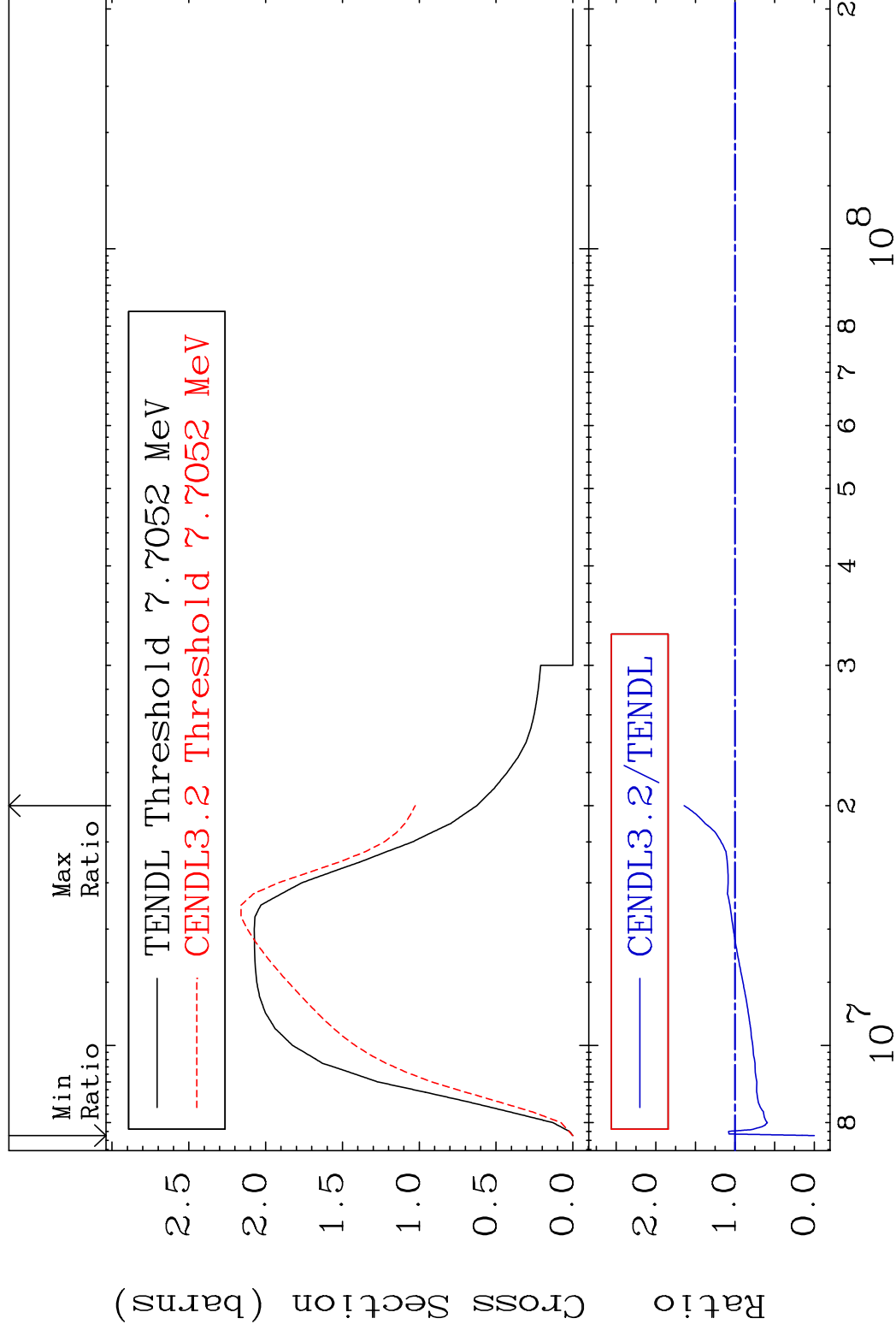


MAT 6649

$$(n, 2n)$$

66-Dy-164

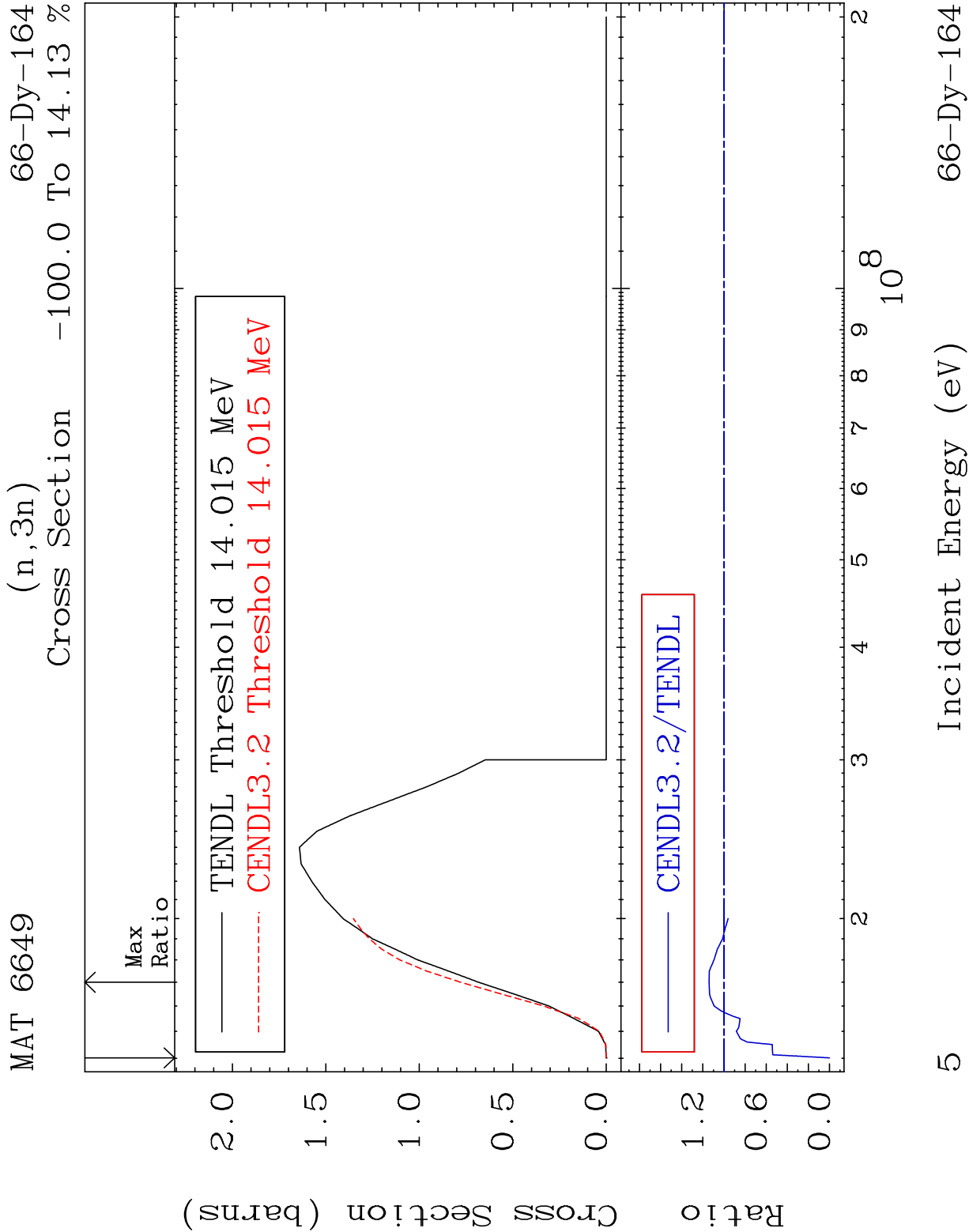
Cross Section

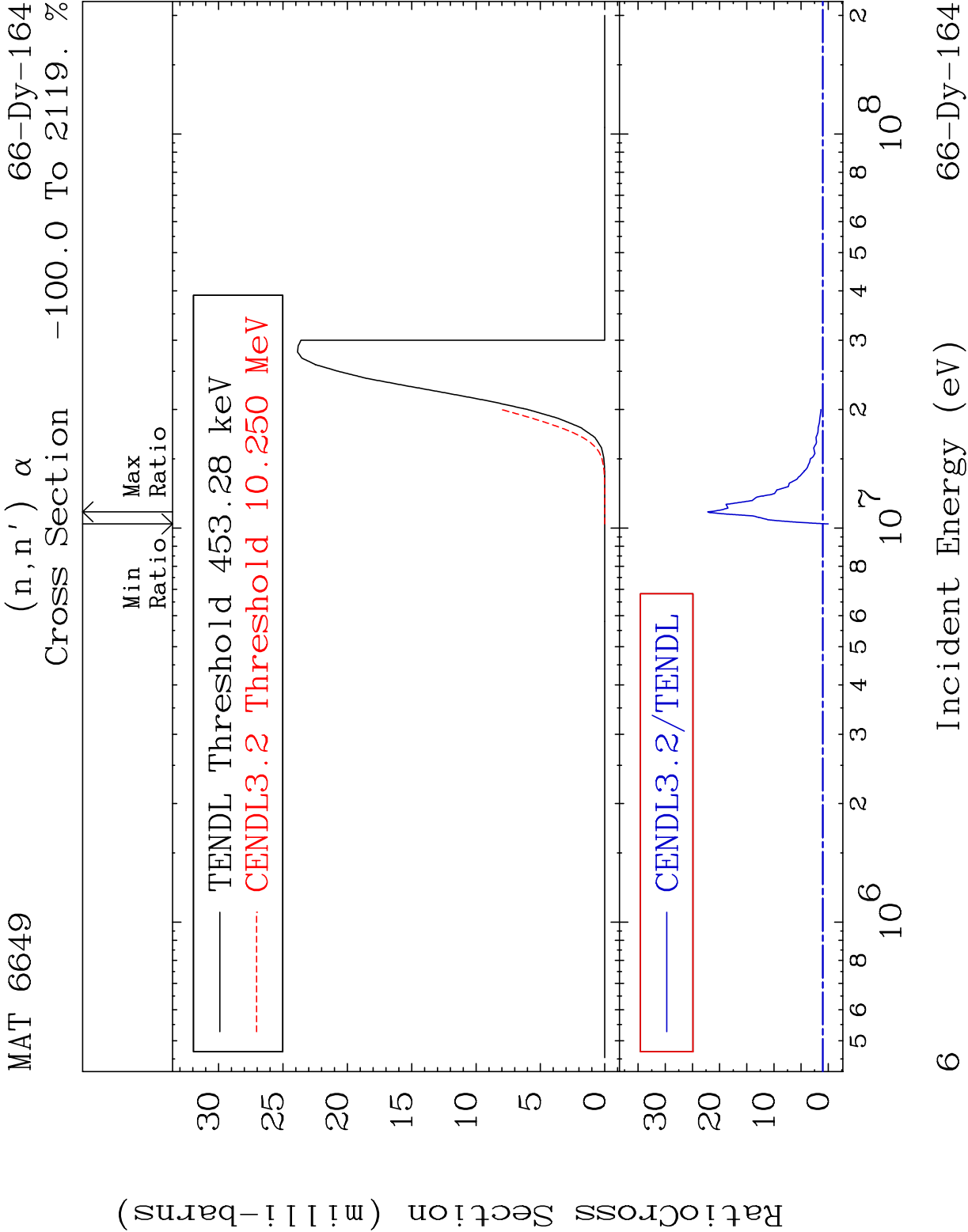


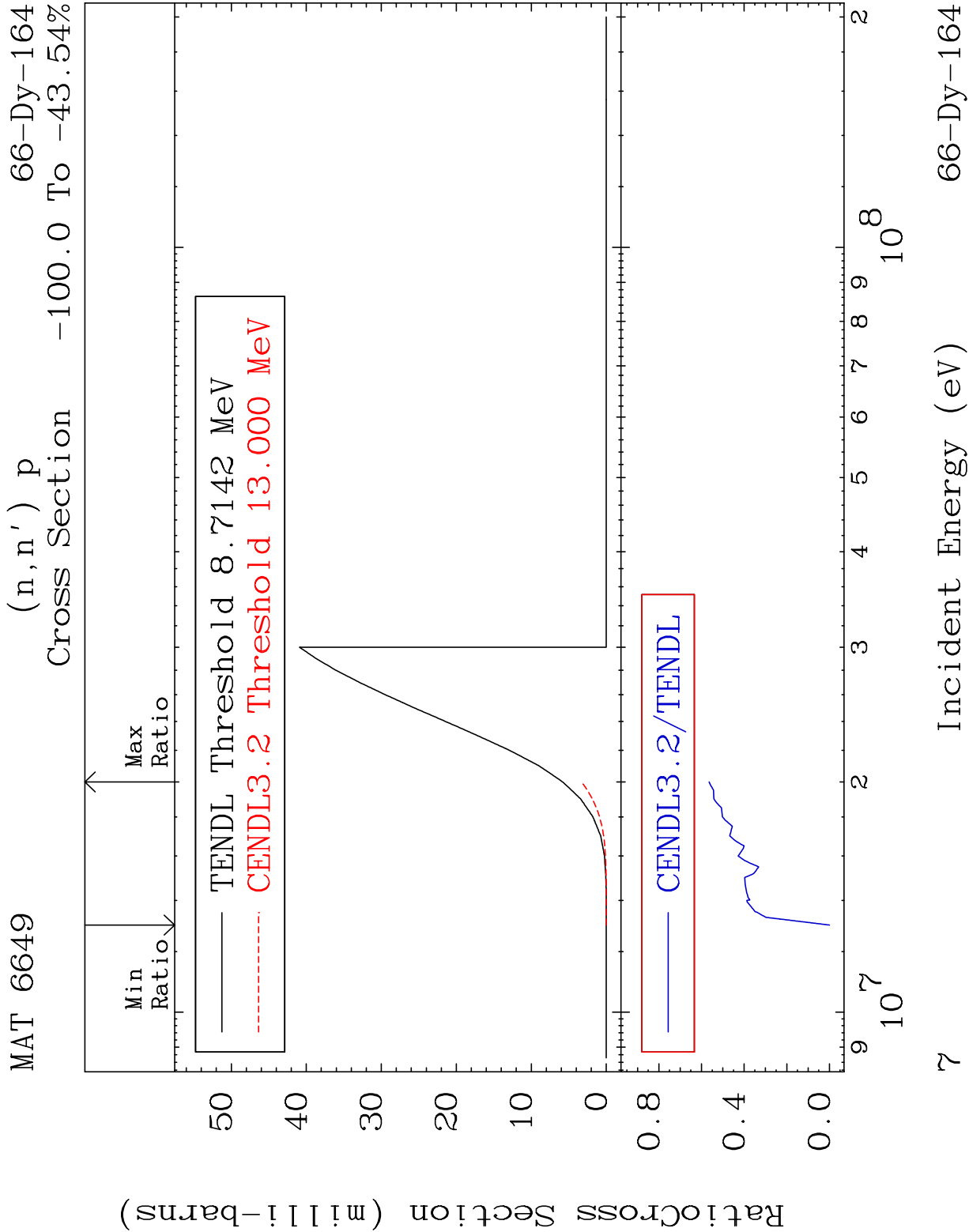
4

Incident Energy (eV)

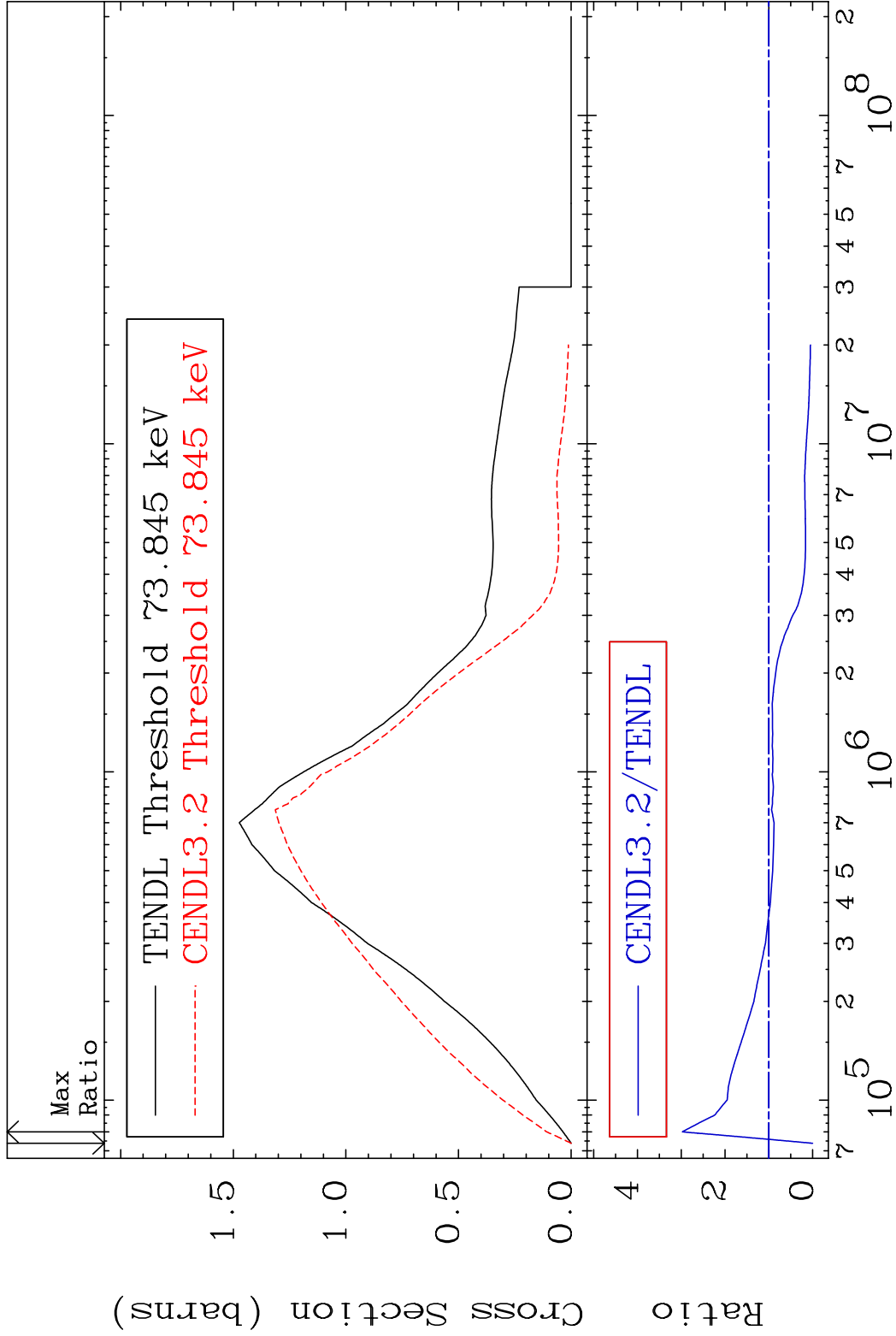
66-Dy-164



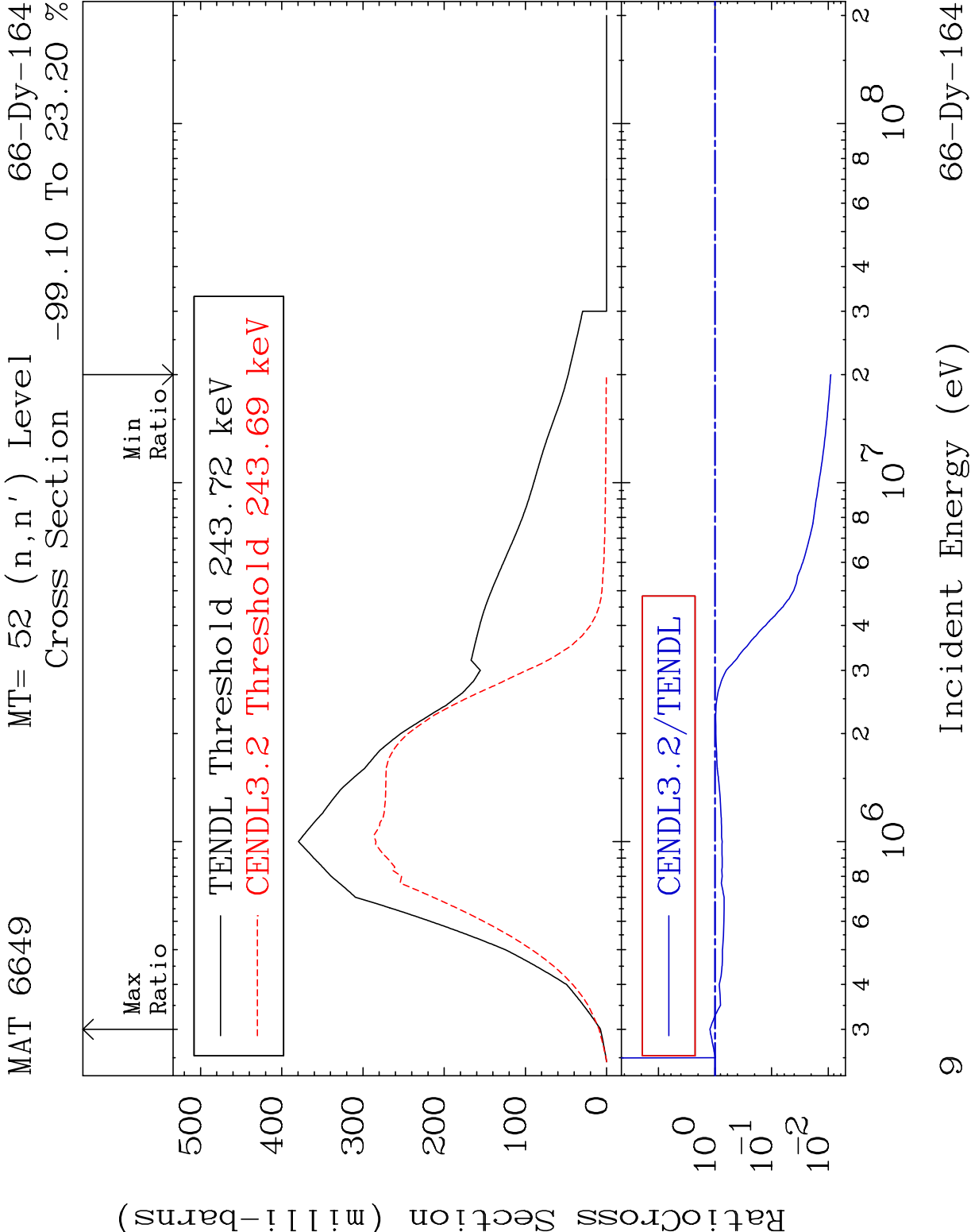


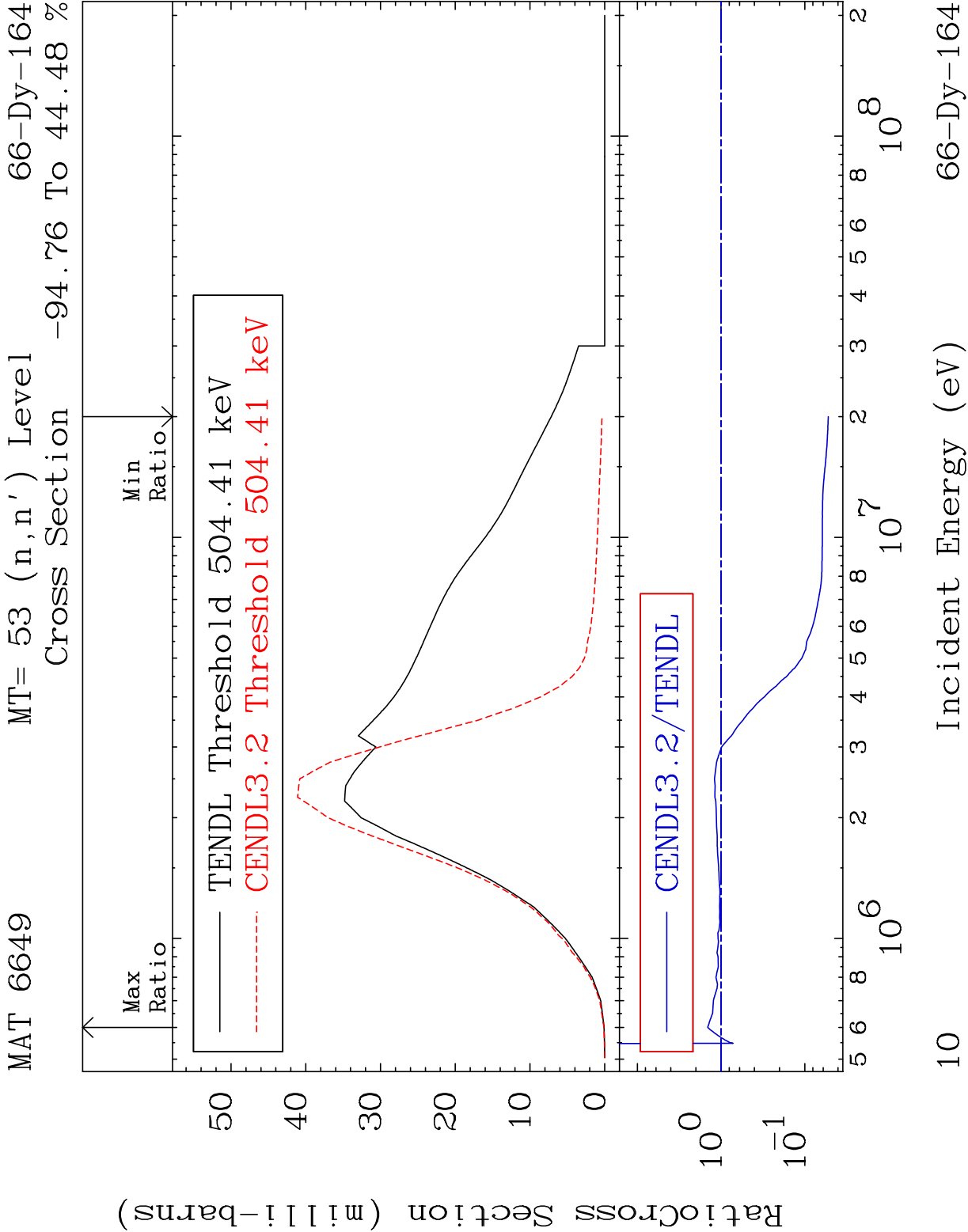


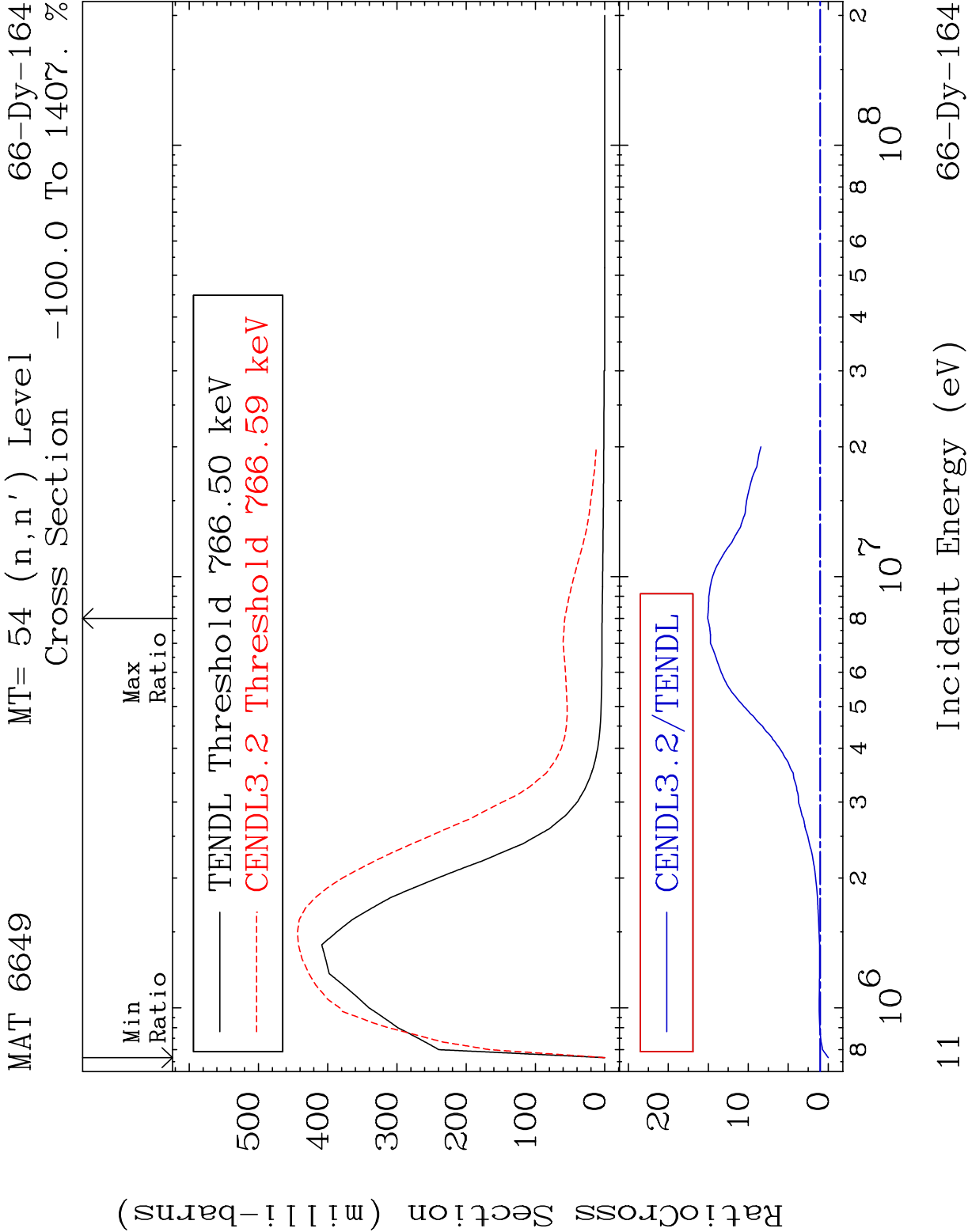
MAT 6649      MT= 51 (n,n') Level      66-Dy-164  
Cross Section    -100.0 To 197.4 %



8      Incident Energy (eV)      66-Dy-164





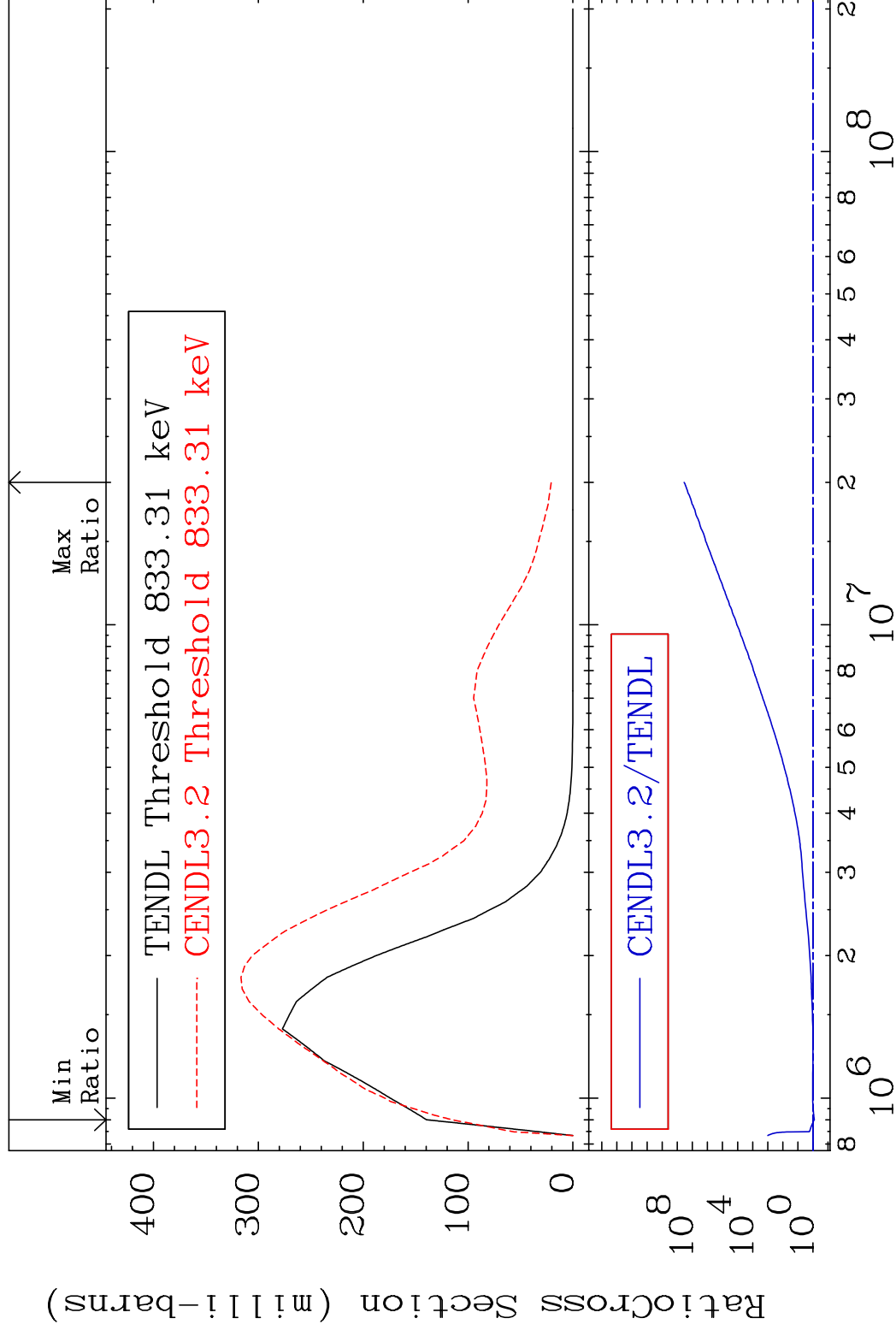


MAT 6649

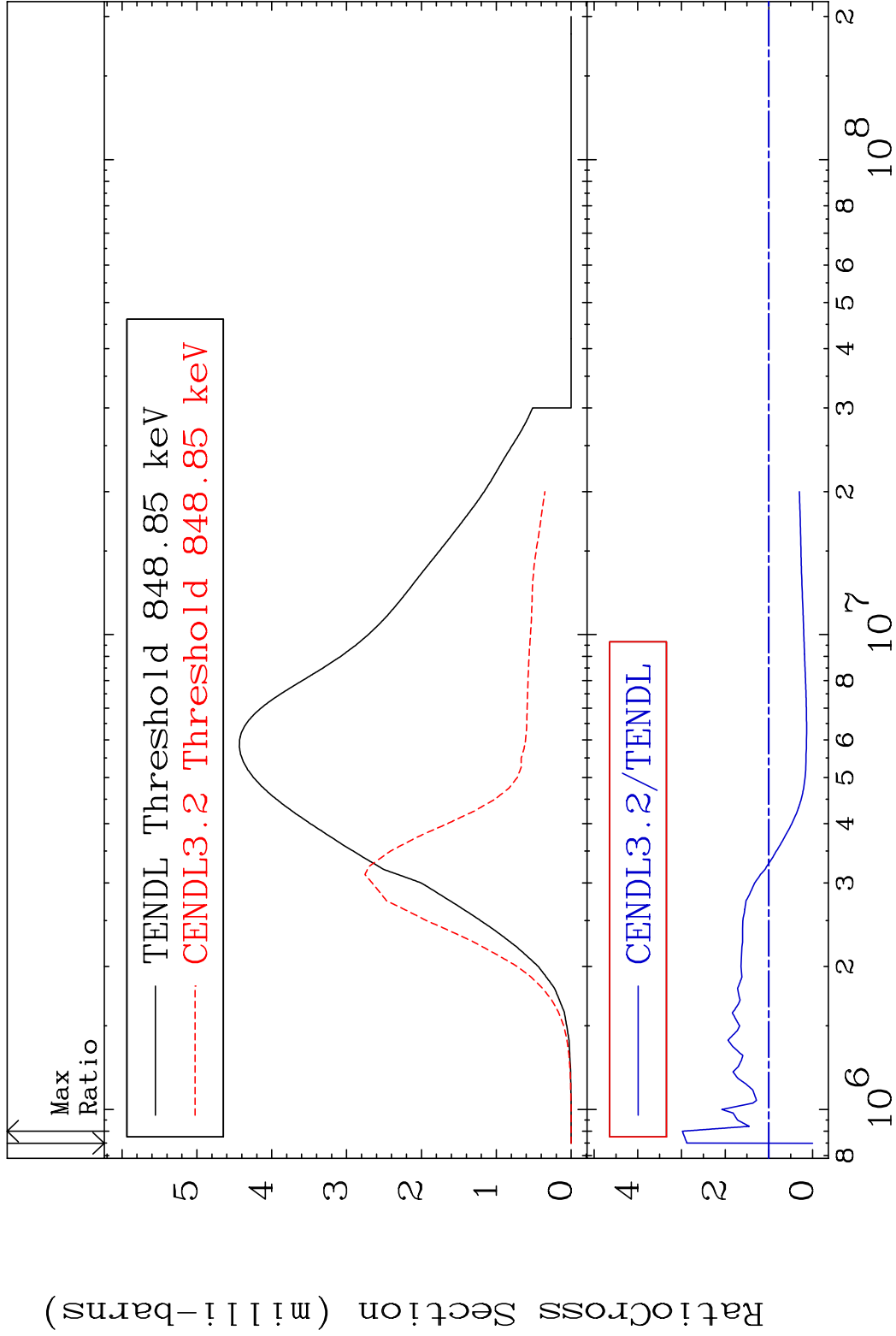
MT=55 (n,n') Level

66-Dy-164

Cross Section -17.45 To 9999. %

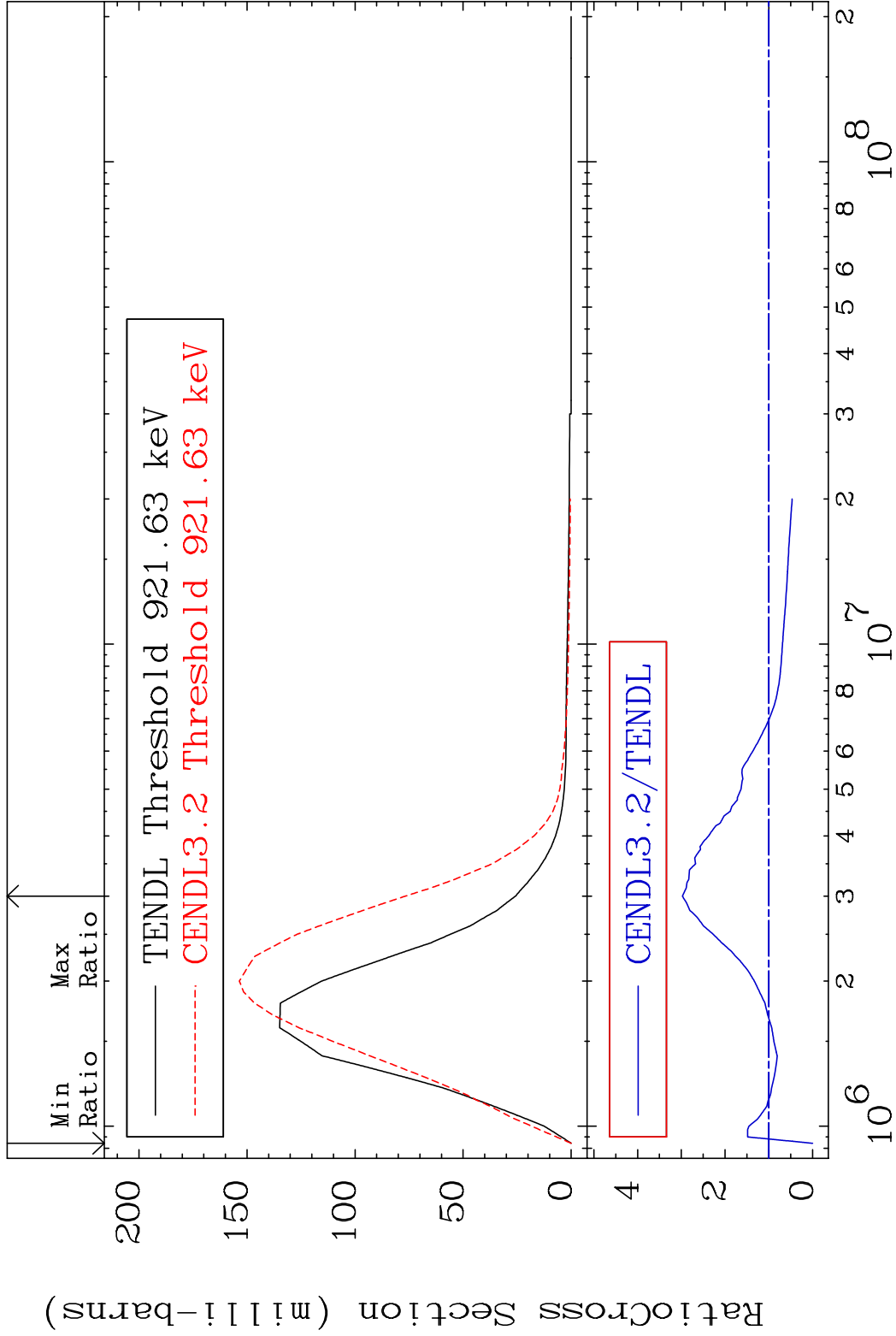


MAT 6649      MT= 56 (n,n') Level      66-Dy-164  
Cross Section    -100.0 To 198.0 %

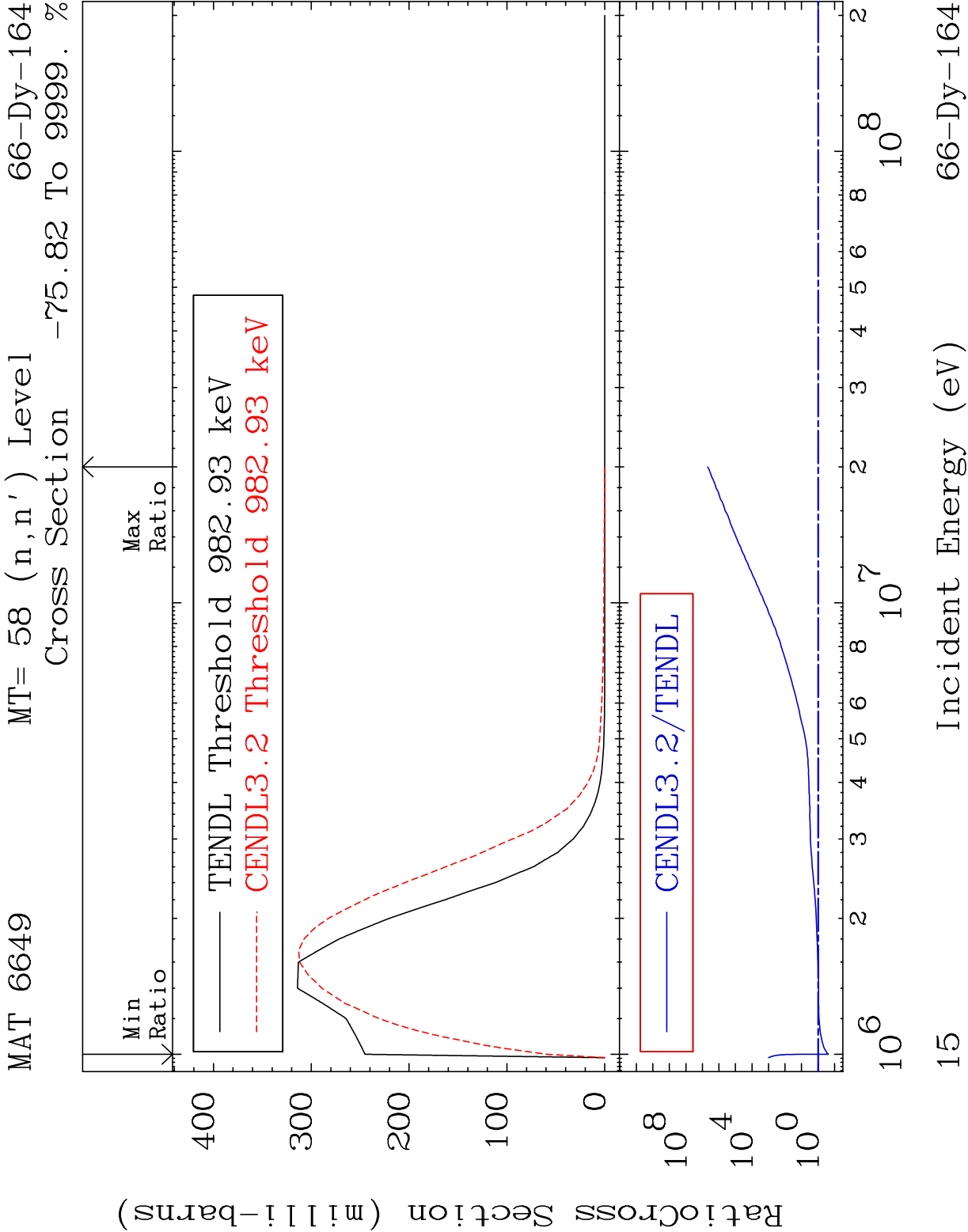


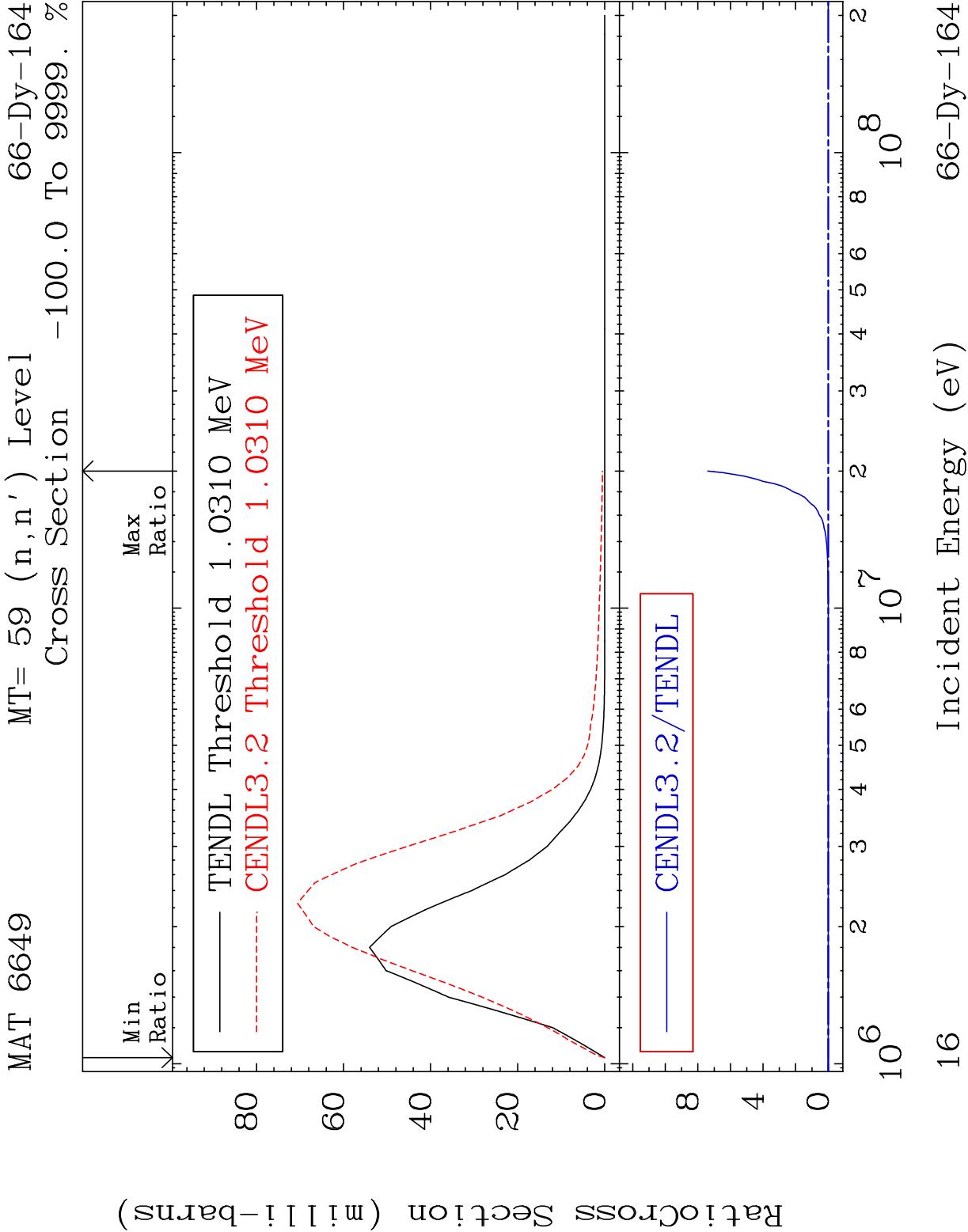
13      Incident Energy (eV)      66-Dy-164

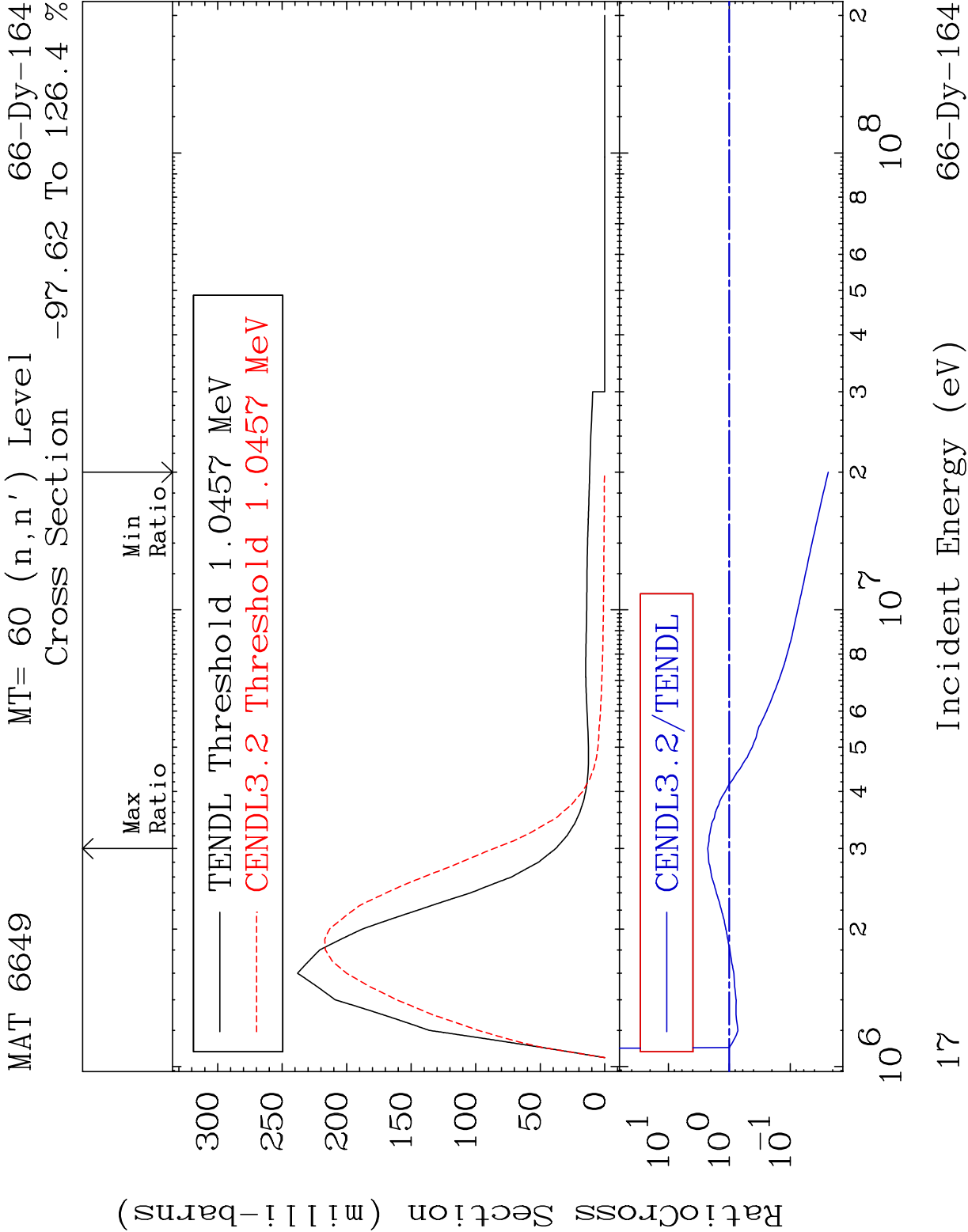
MAT 6649      MT= 57 (n,n') Level      66-Dy-164  
Cross Section    -100.0 To 197.6 %

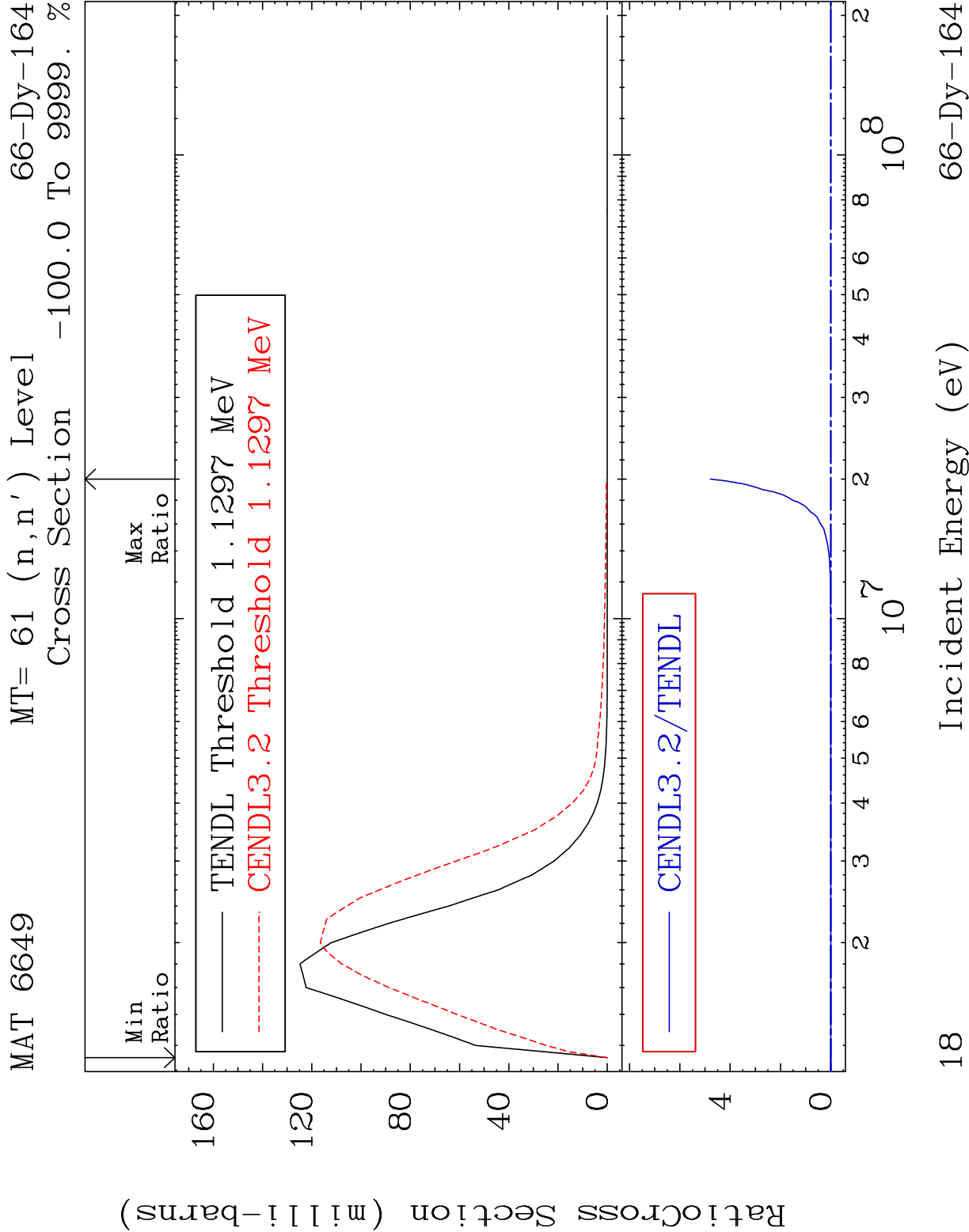


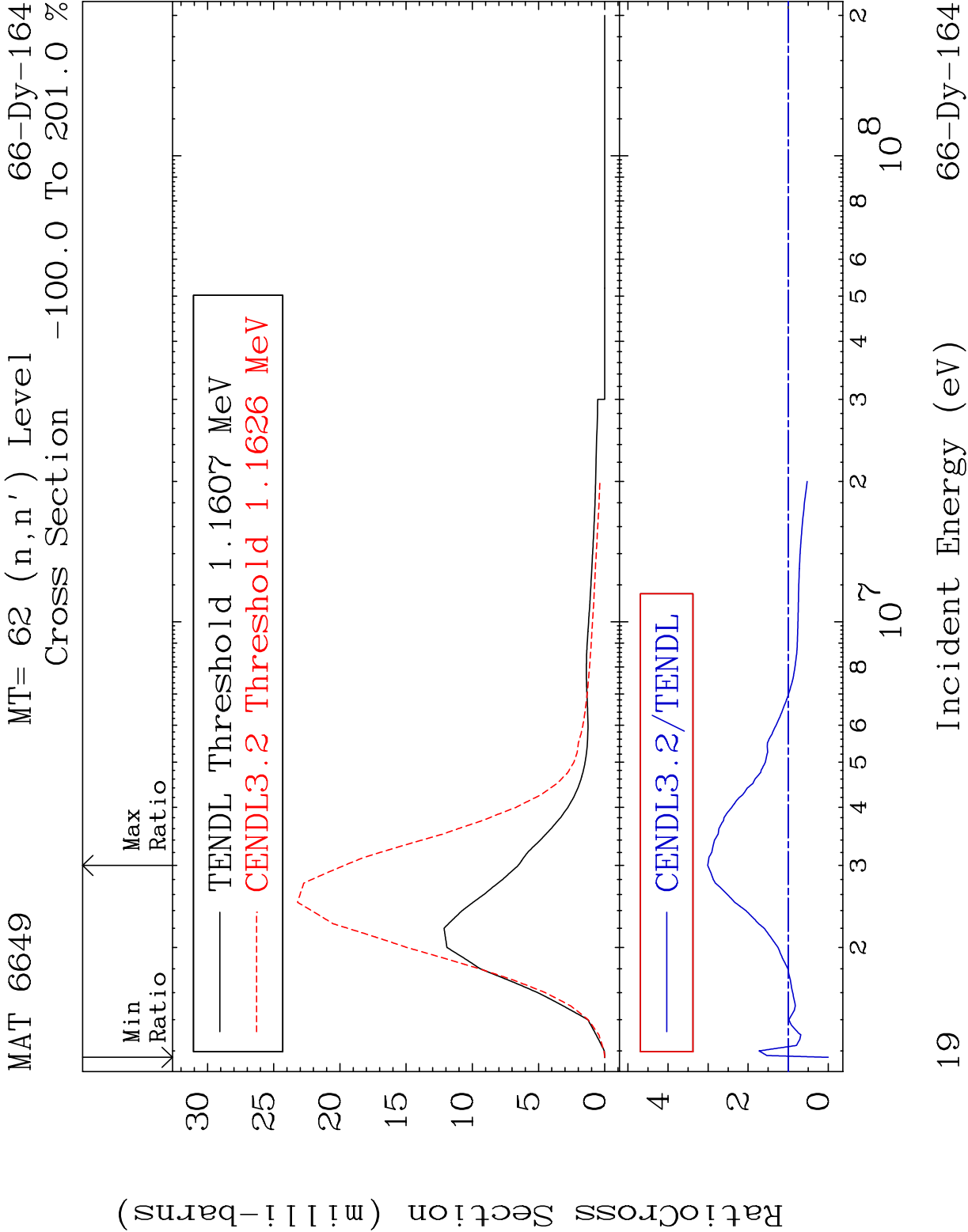
14      Incident Energy (eV)      66-Dy-164

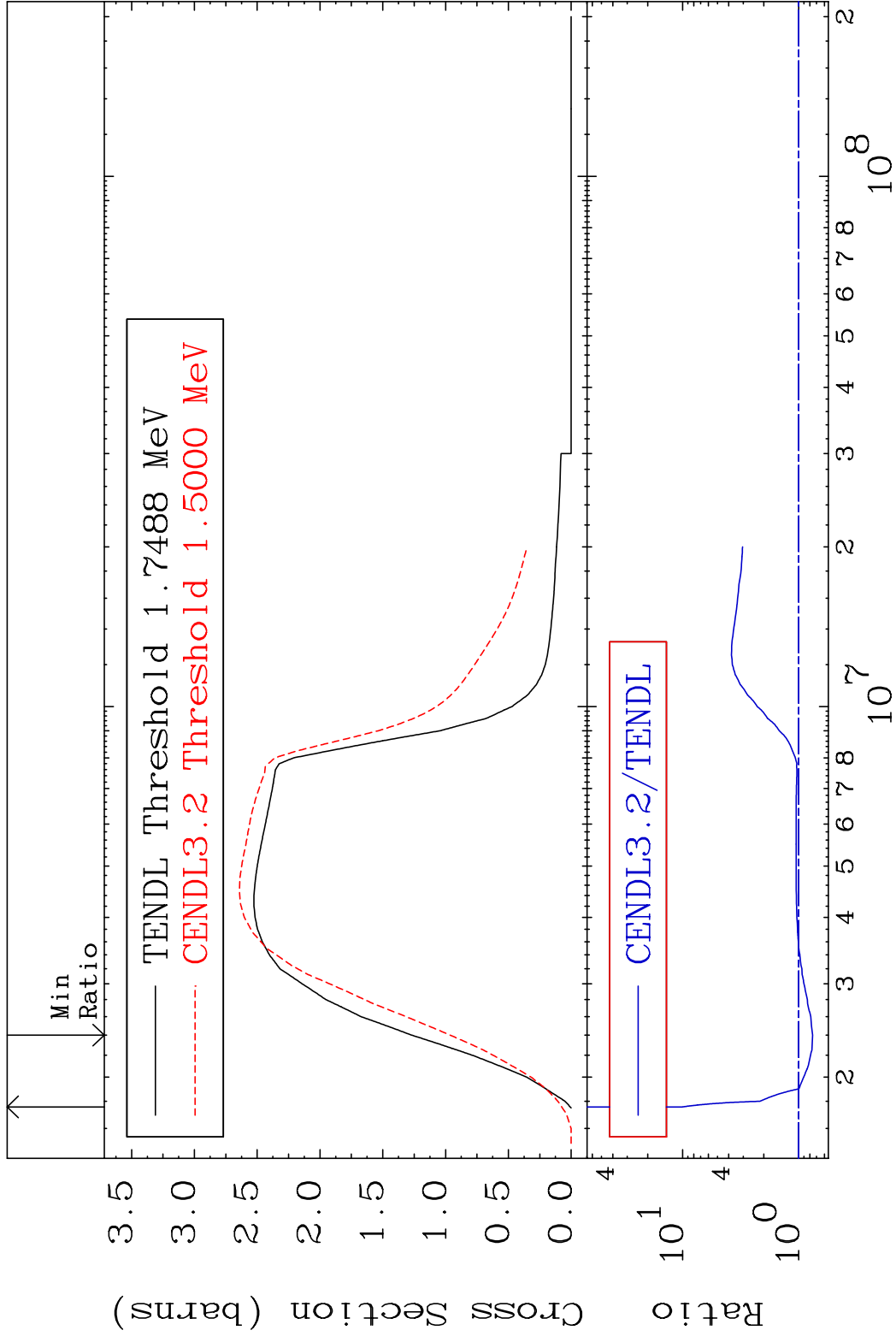


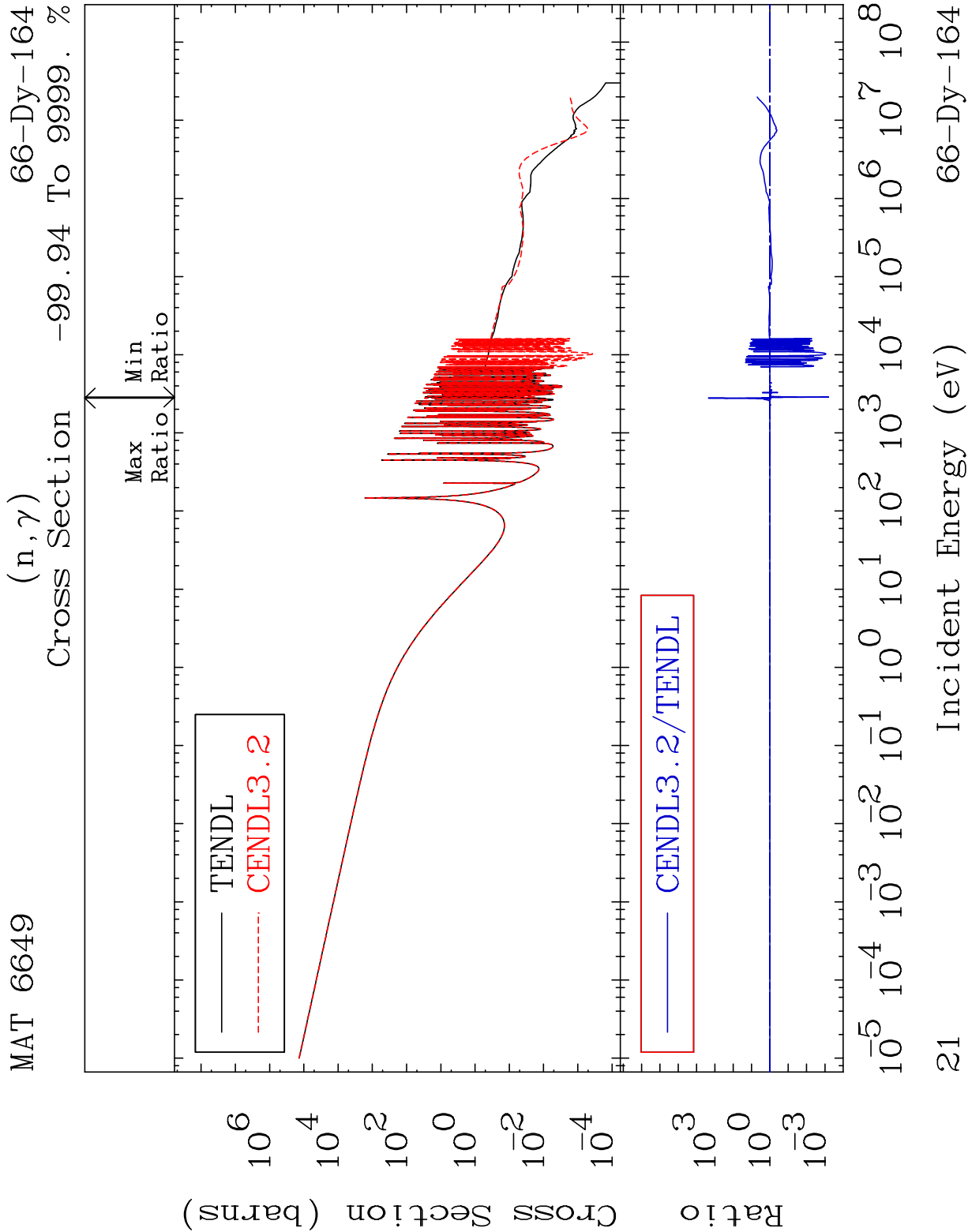


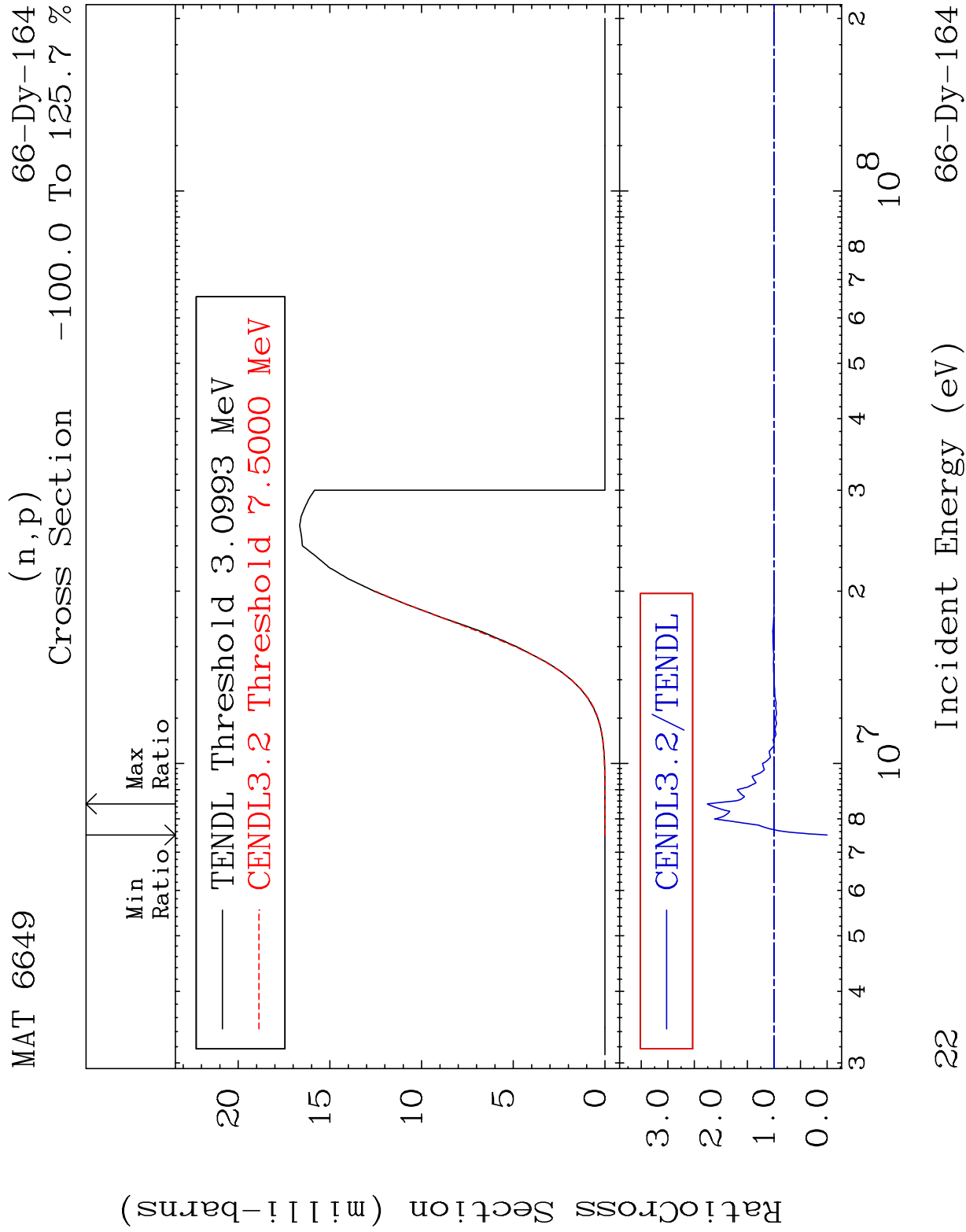


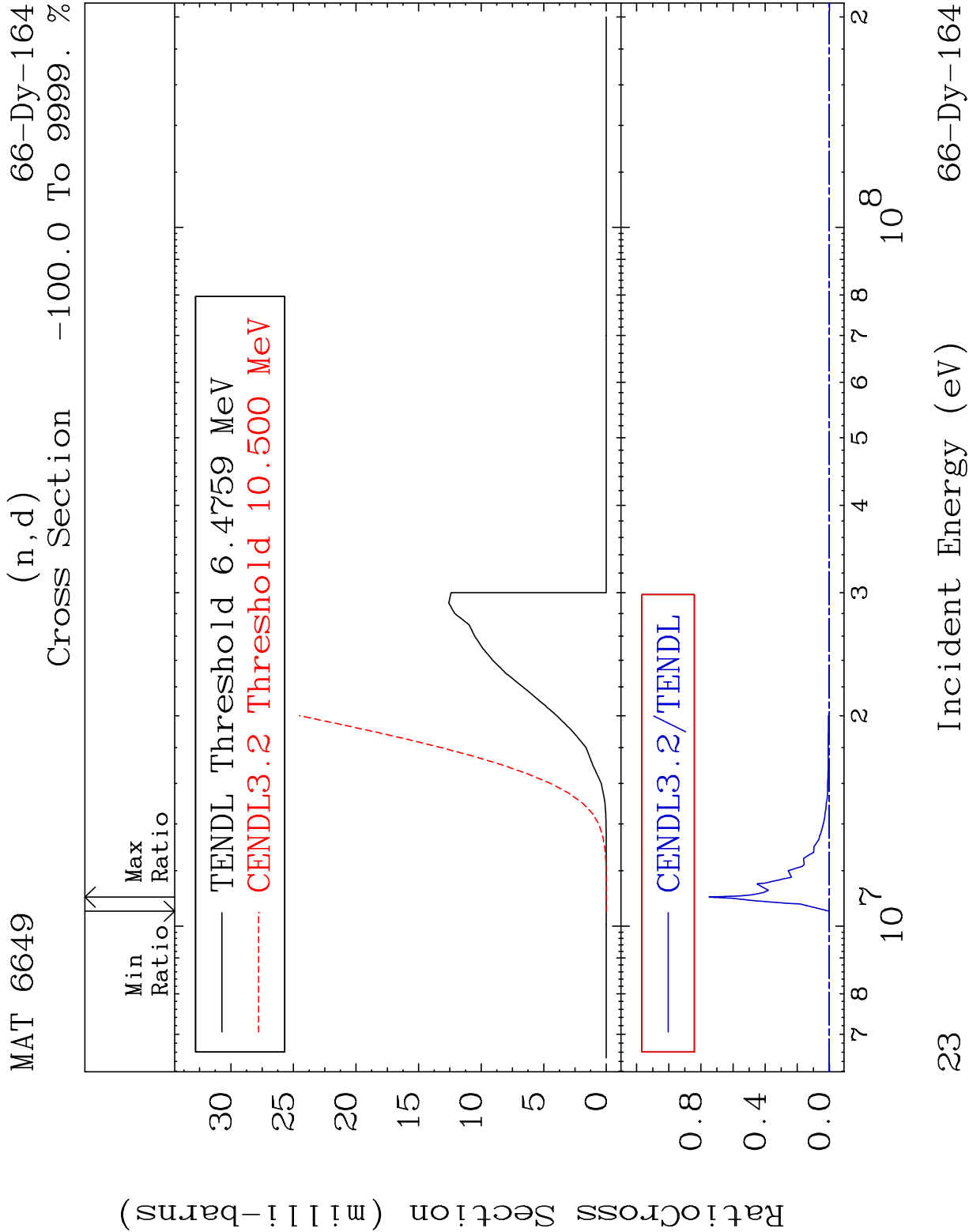


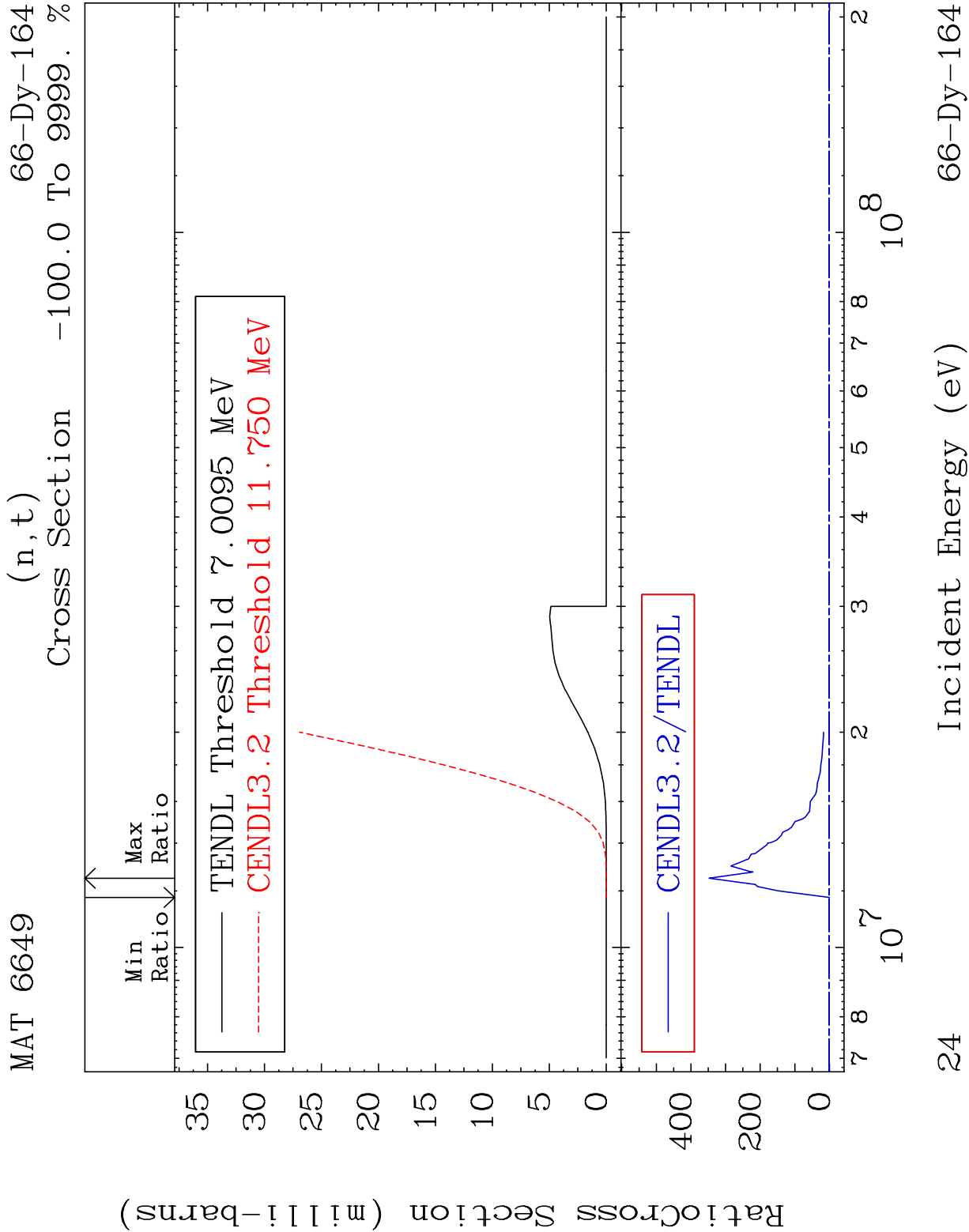










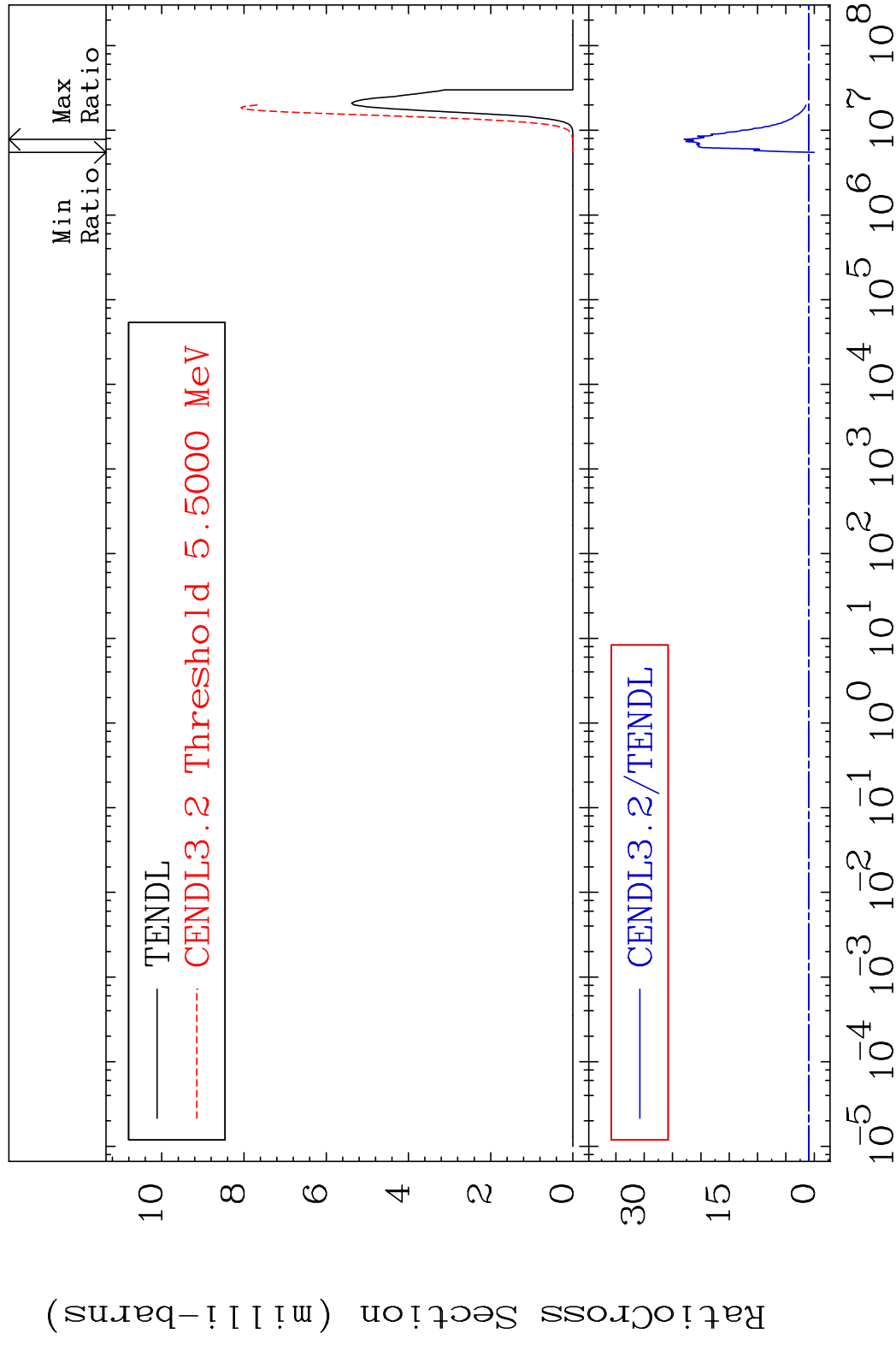


MAT 6649

$$(n, \alpha)$$

66-Dy-164

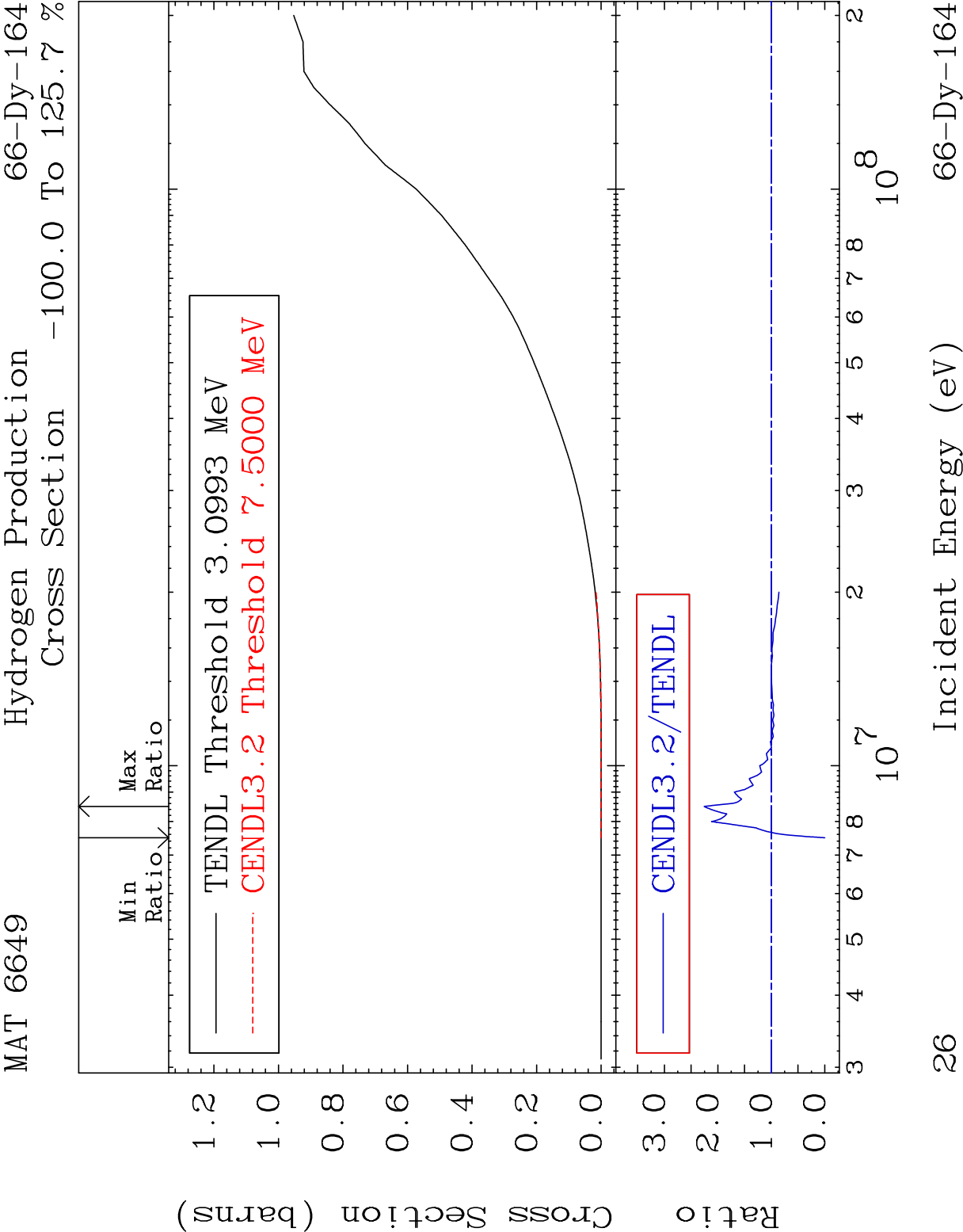
Cross Section -100.0 To 2196. %



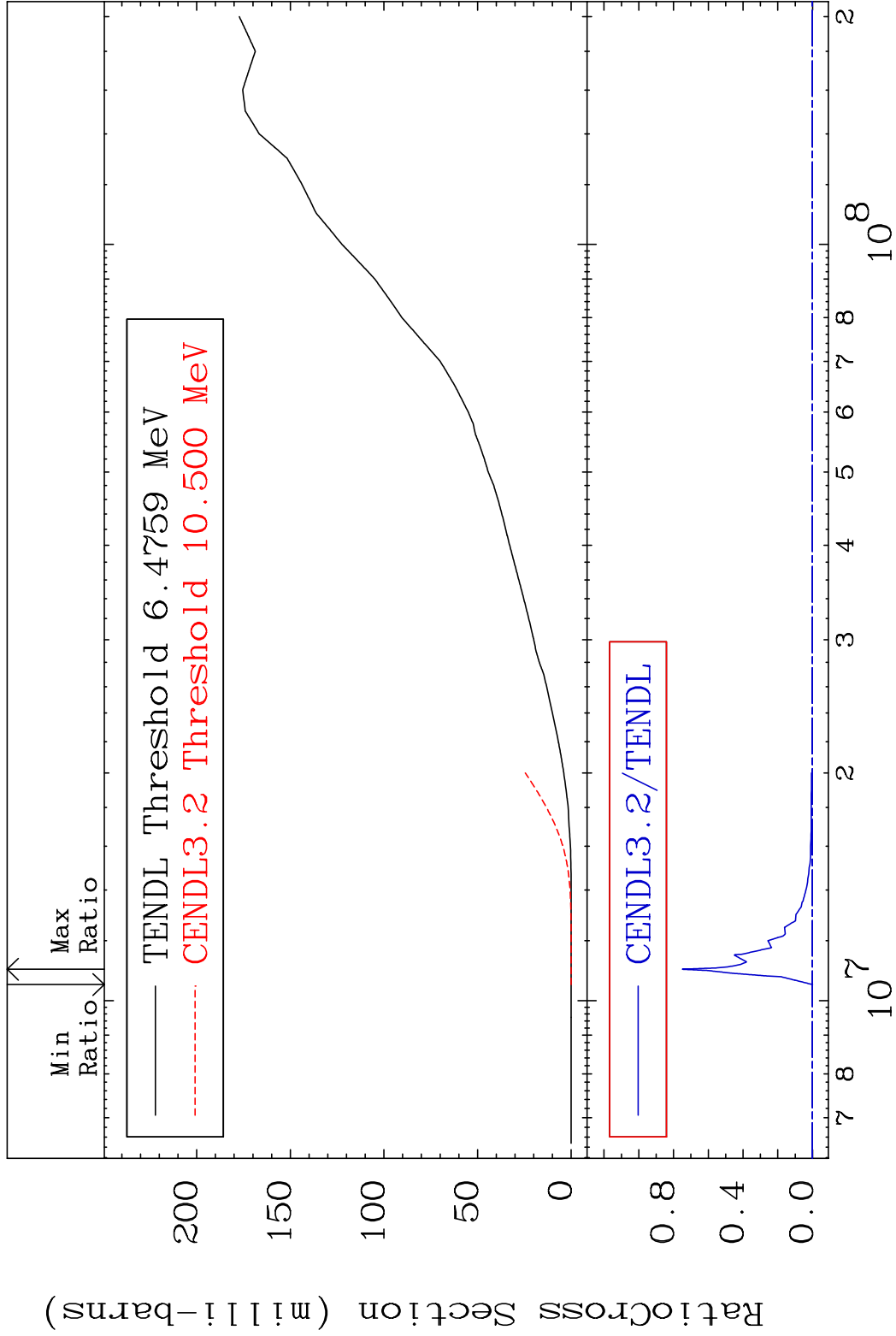
25

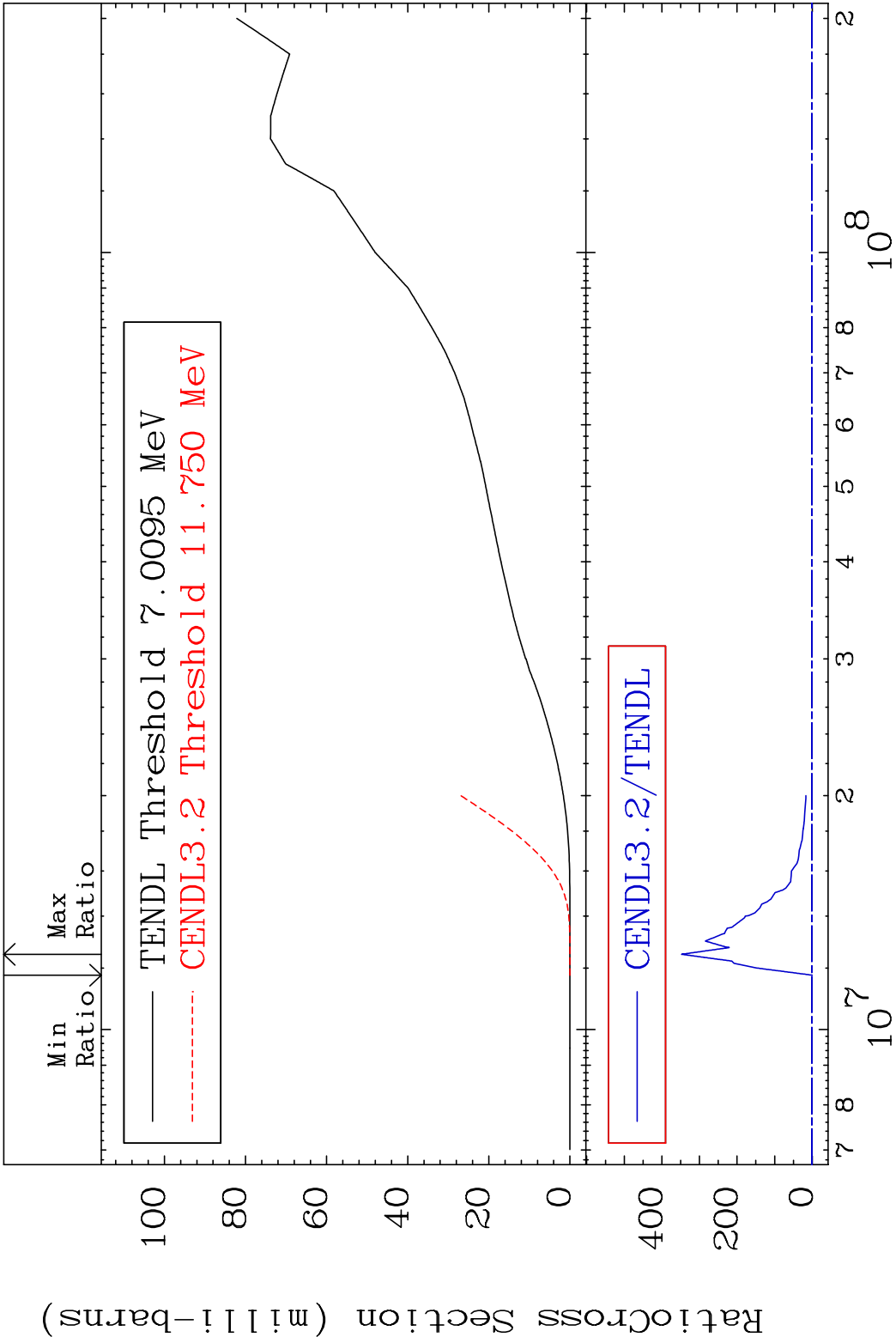
Incident Energy (eV)

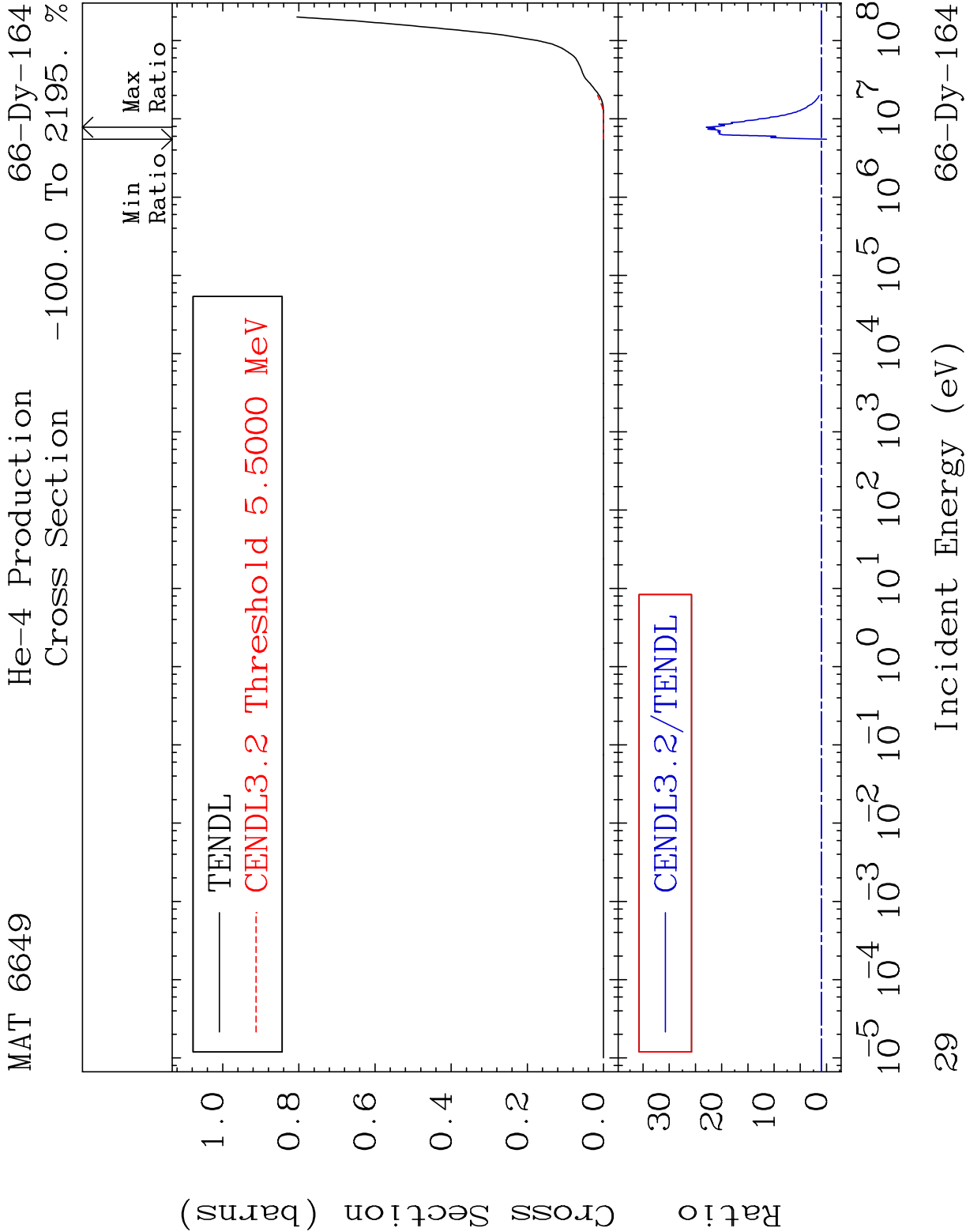
66-Dy-164



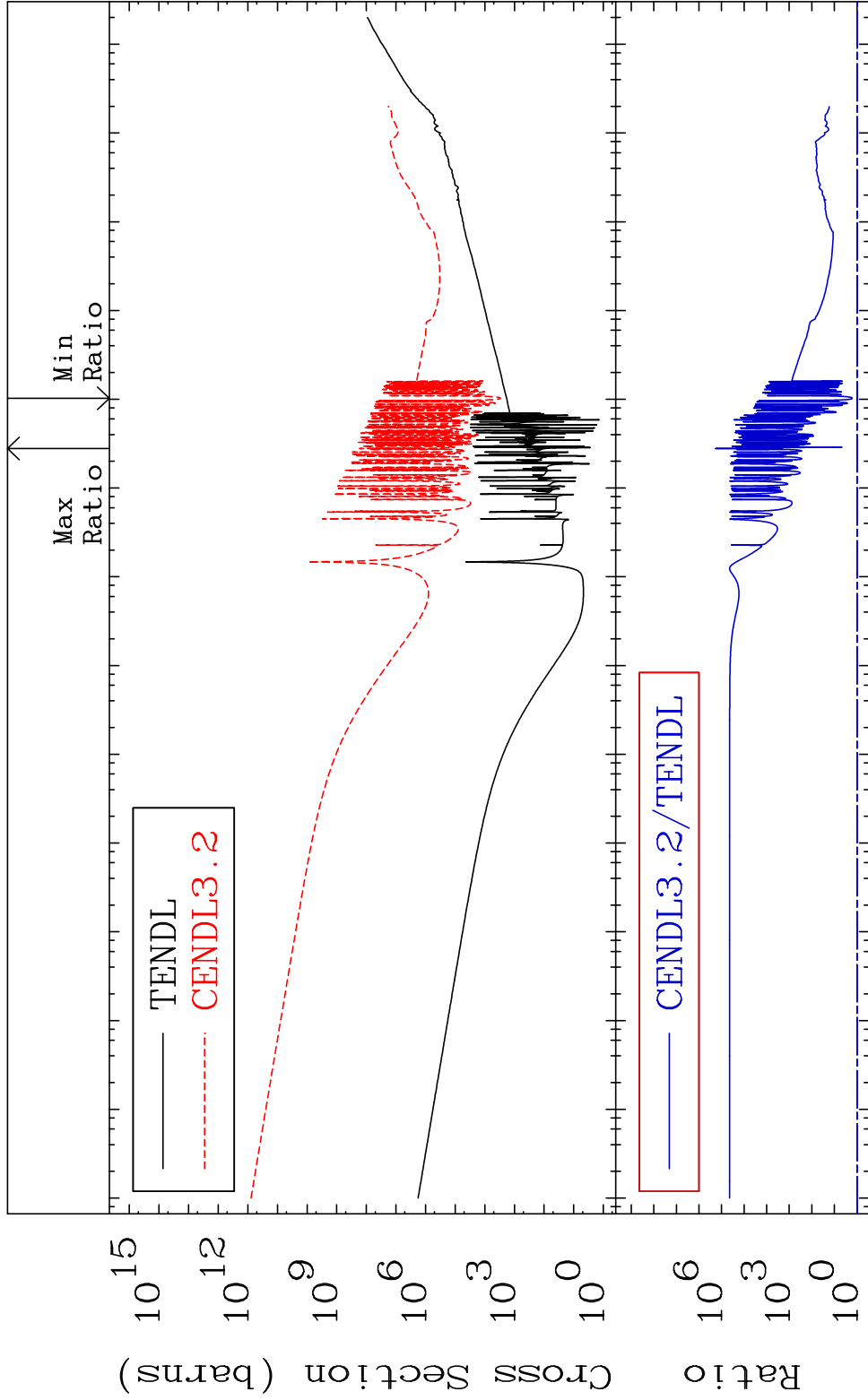
26



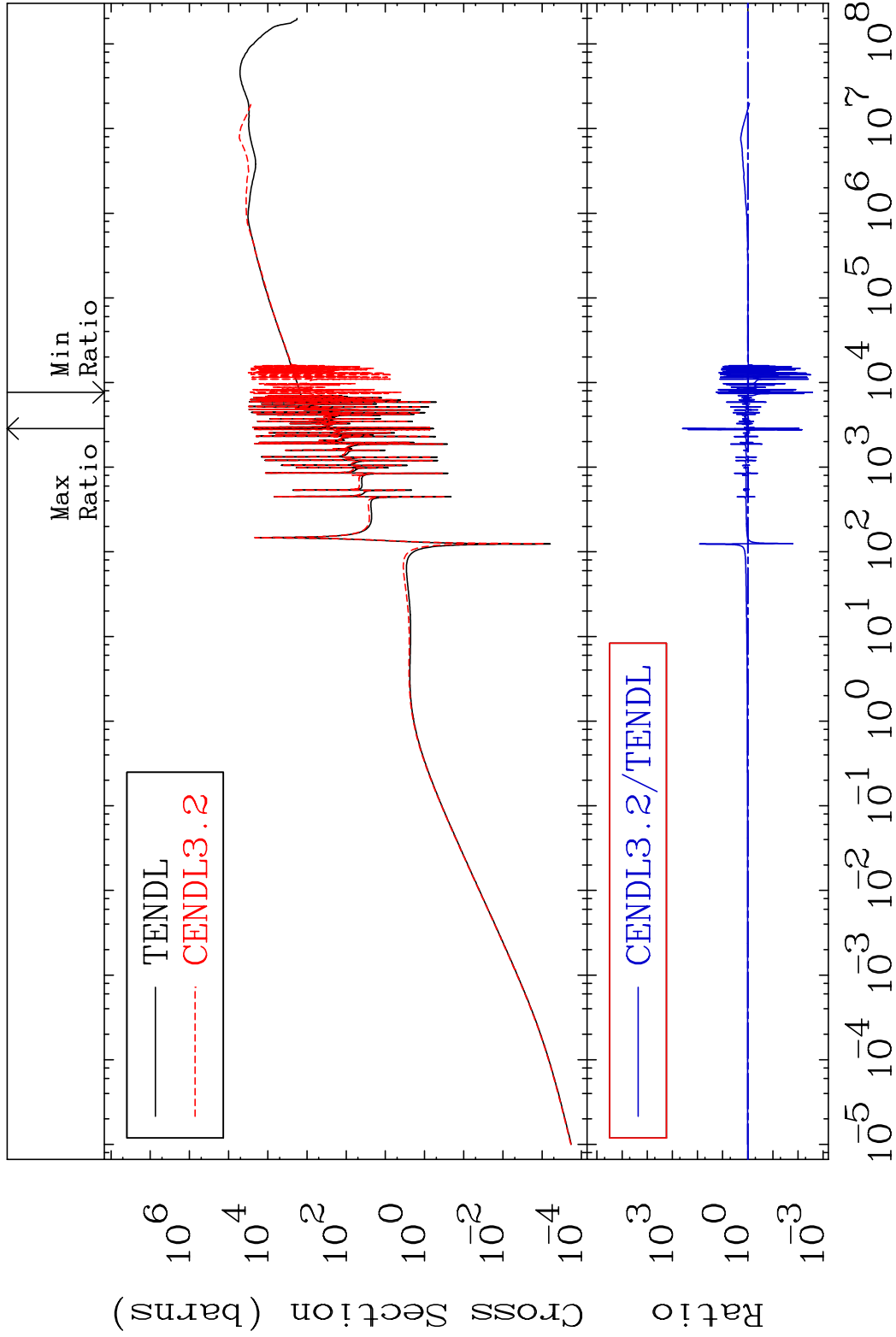




MAT 6649      Kerma total (eV-barns)      66-Dy-164  
Cross Section    61.97    To 9999. %



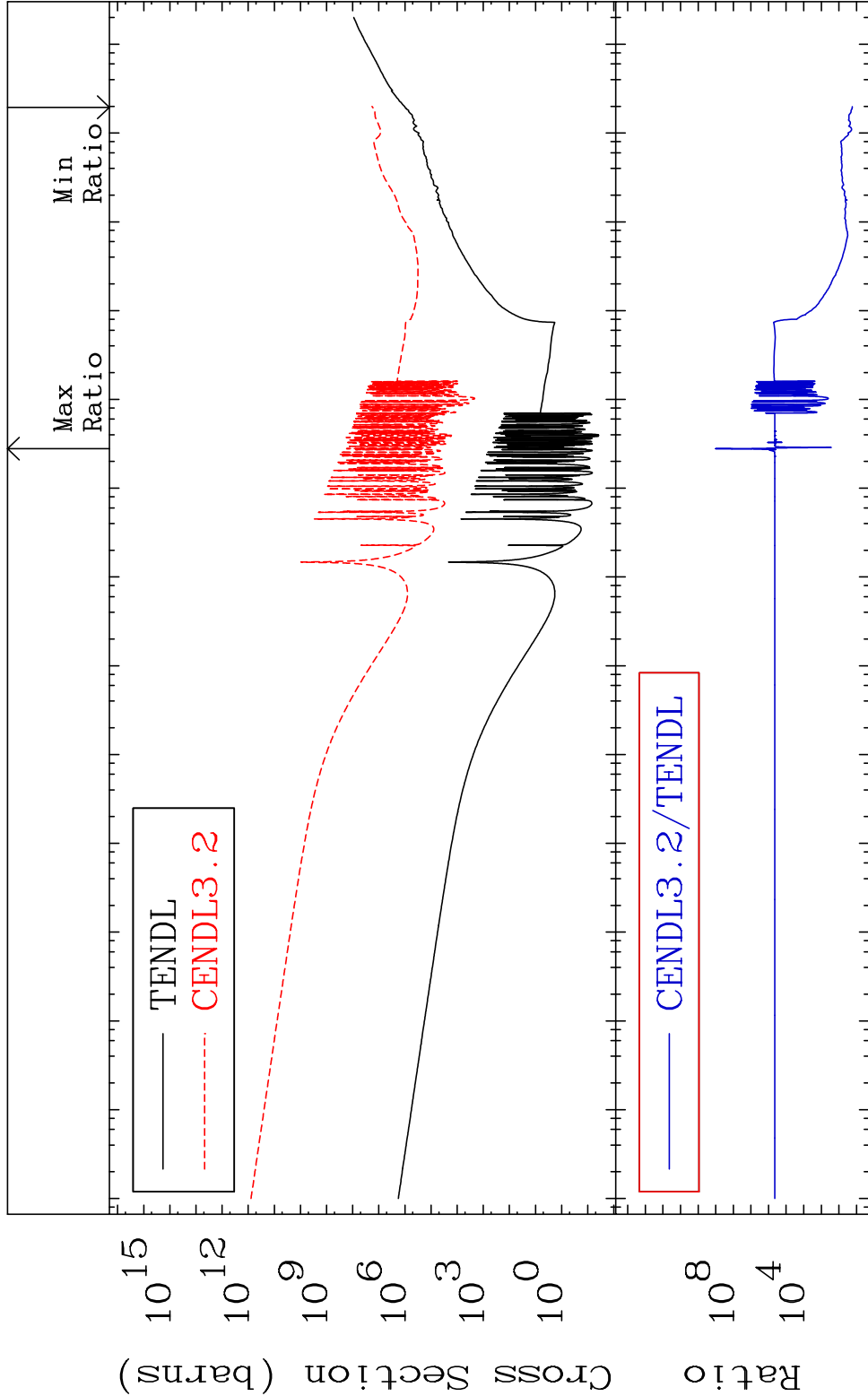
MAT 6649      Kerma elastic      66-Dy-164  
Cross Section      -99.74 To 9999. %



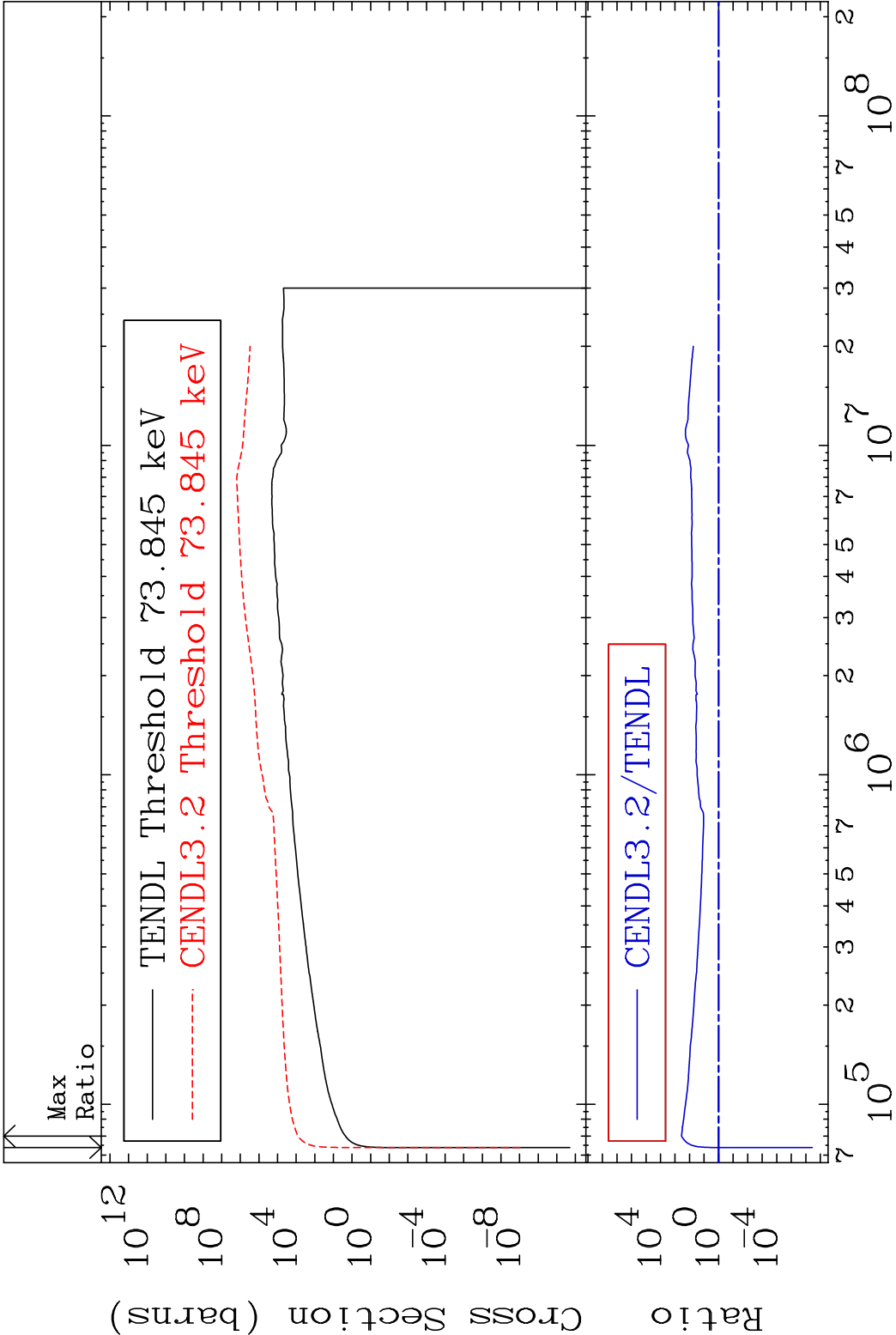
31      Incident Energy (eV)      66-Dy-164

MAT 6649      Kerma non-elastic (all but mt2)      66-Dy-164

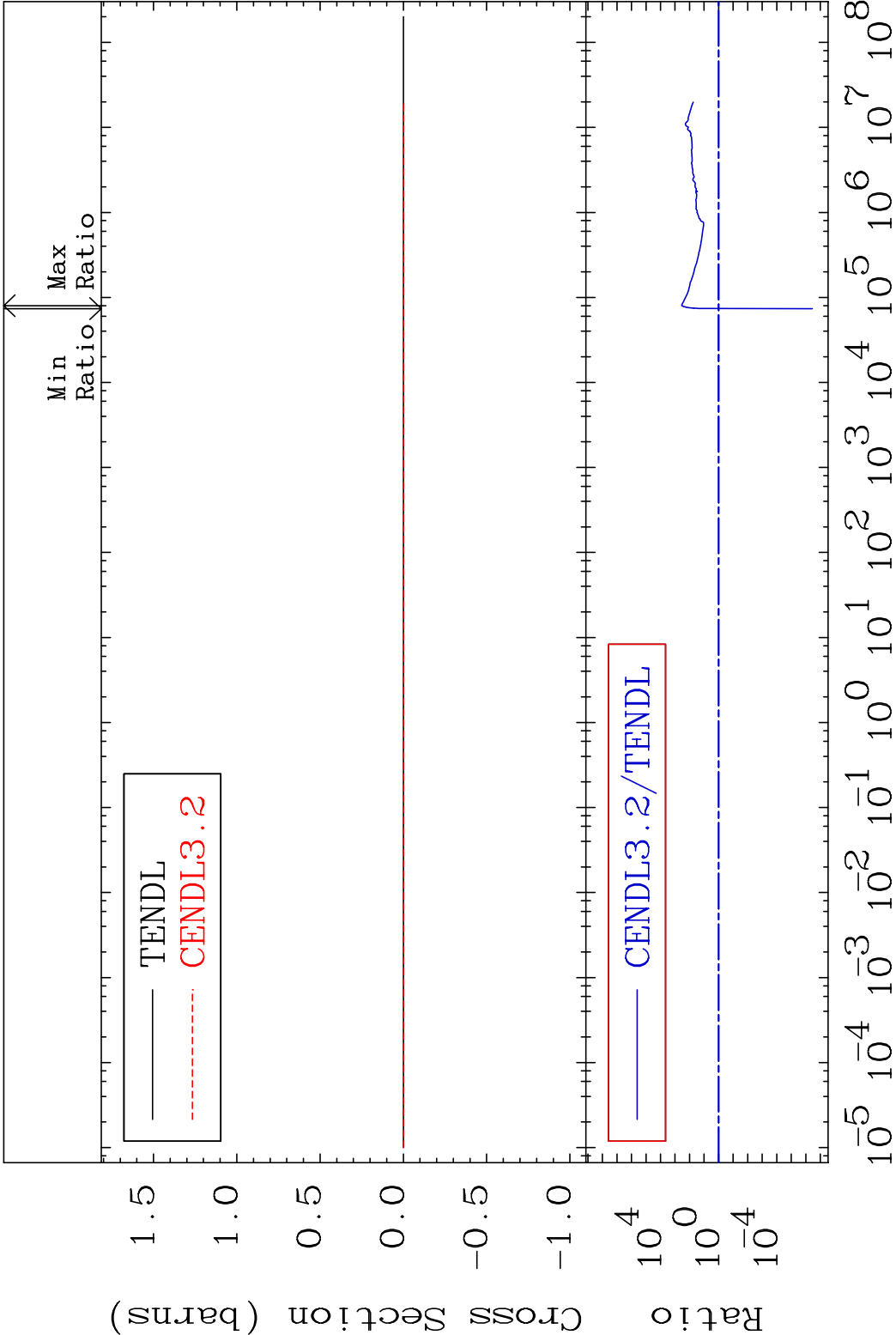
Cross Section      1651.      To 9999. %

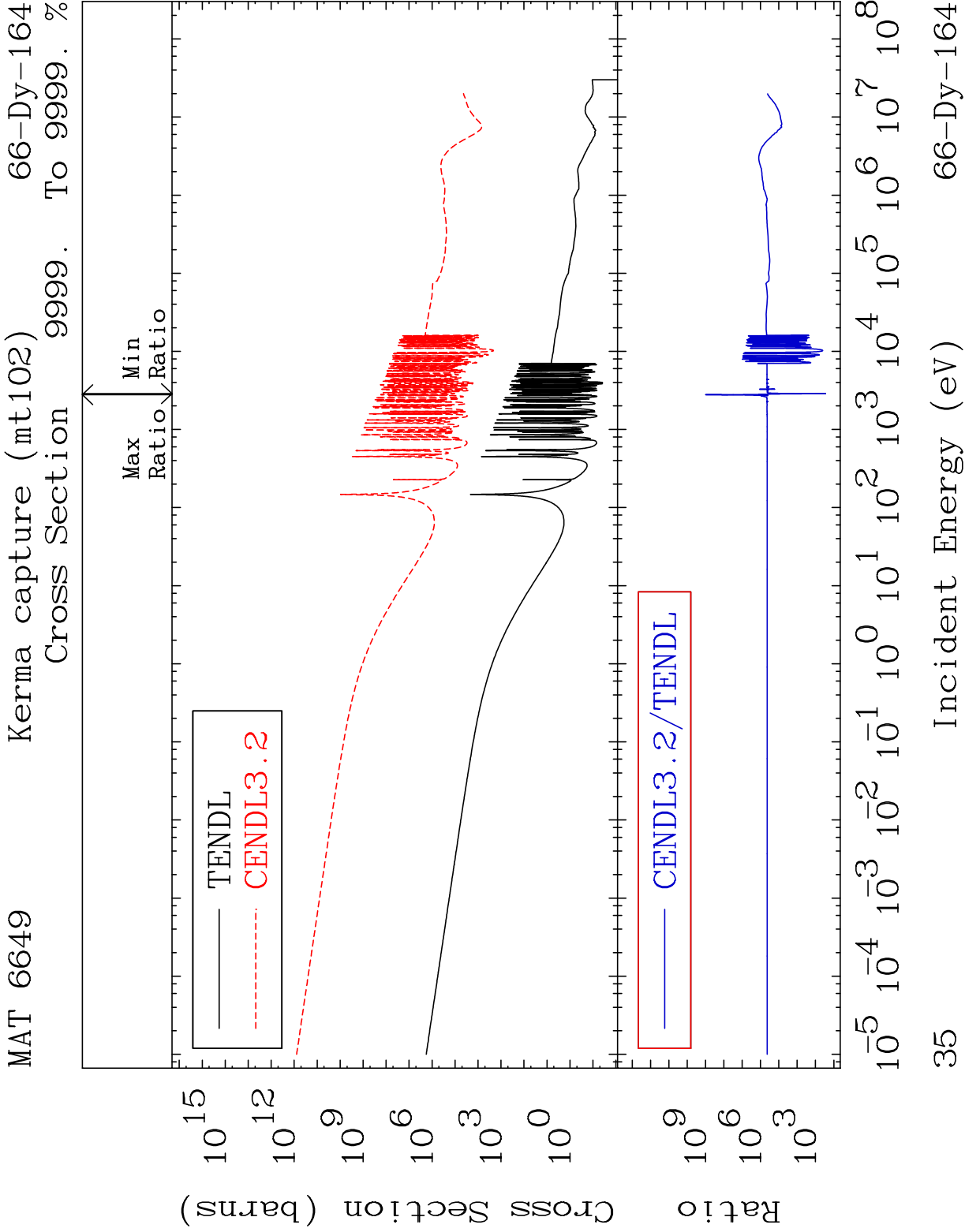


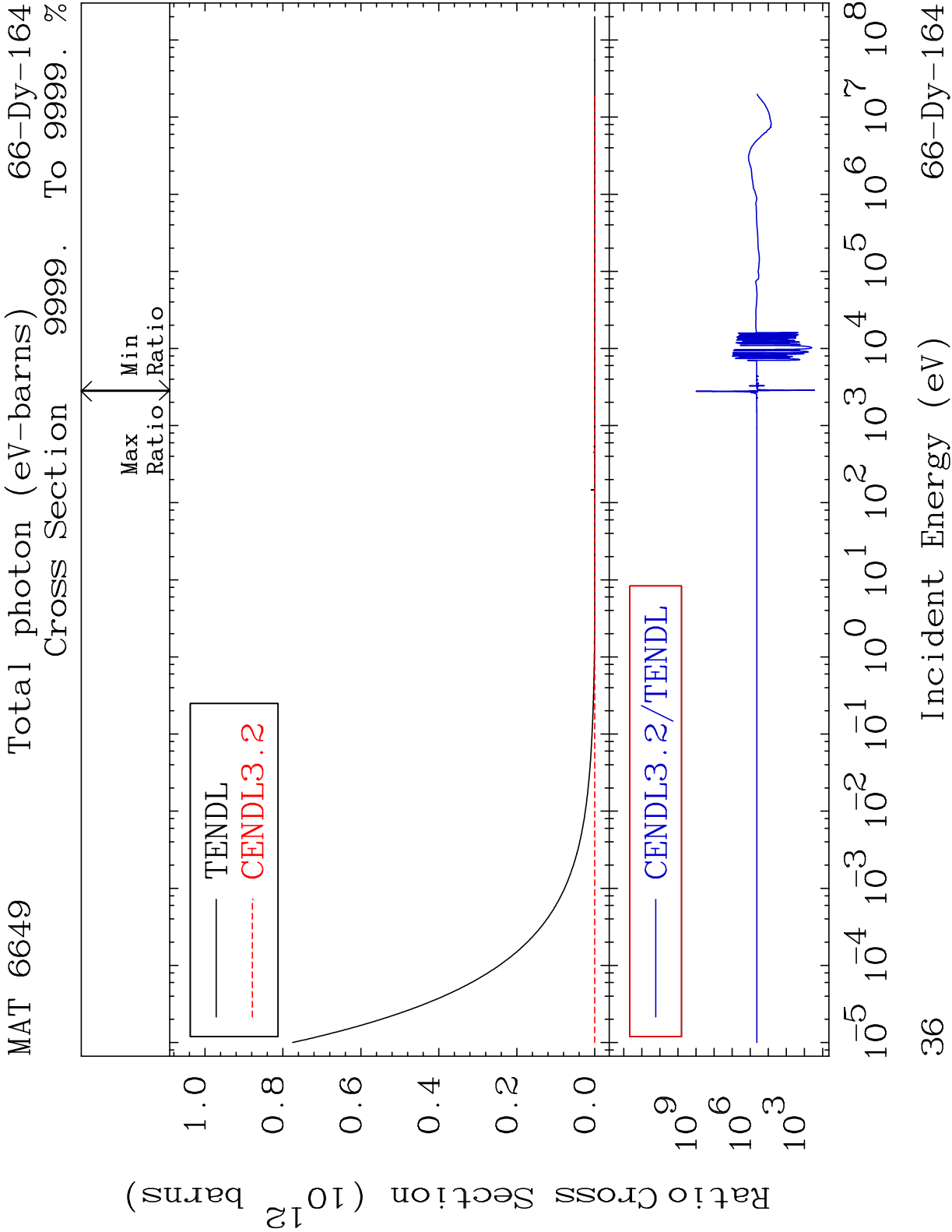
32      Incident Energy (eV)      66-Dy-164



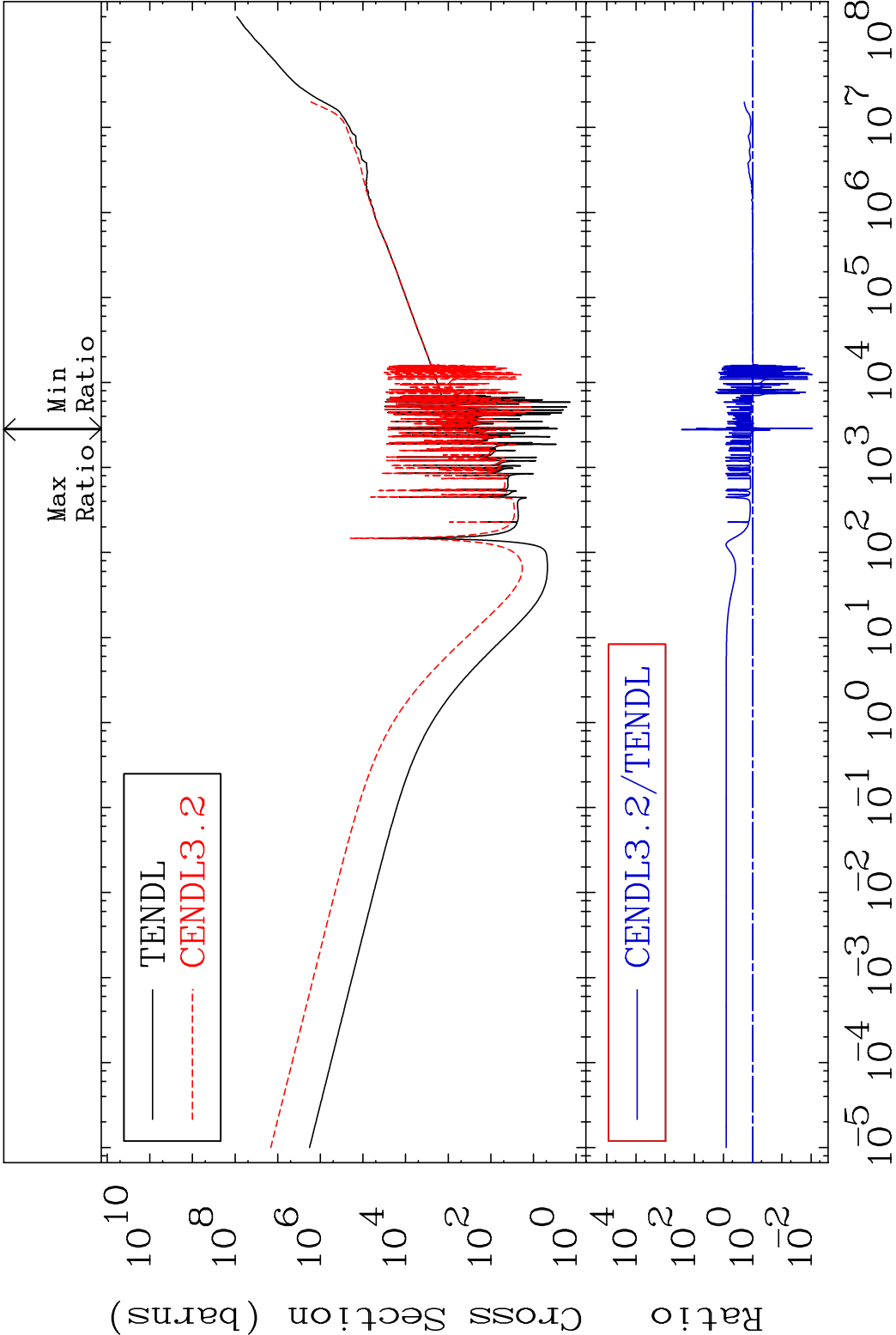
MAT 6649Kerma fission (mt18 or mt19-20-21-38)66-Dy-164  
Cross Section -100.0 To 9999. %





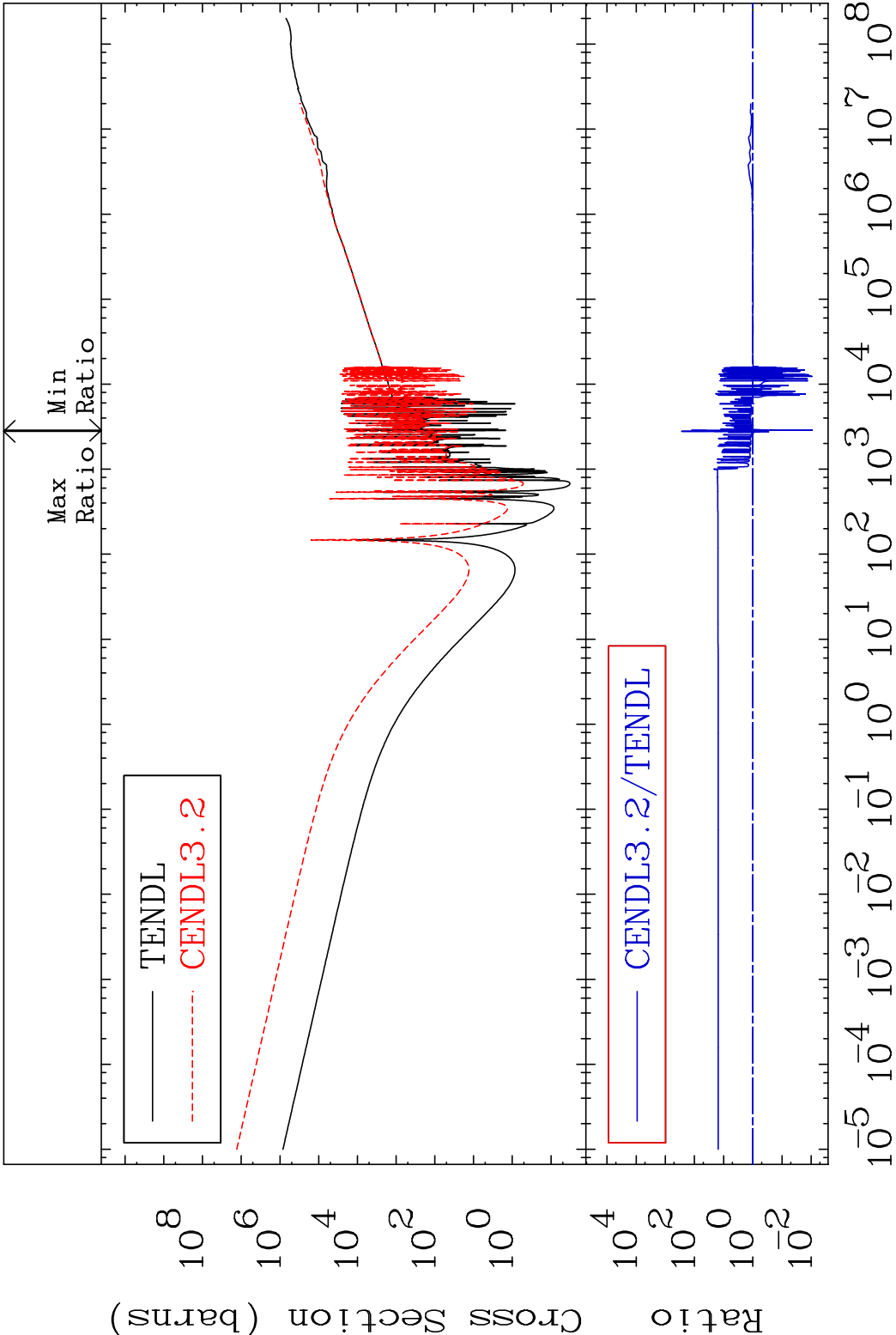


MAT 6649 Total kinematic kerma (high limit) 66-Dy-164  
Cross Section -99.09 To 9999. %

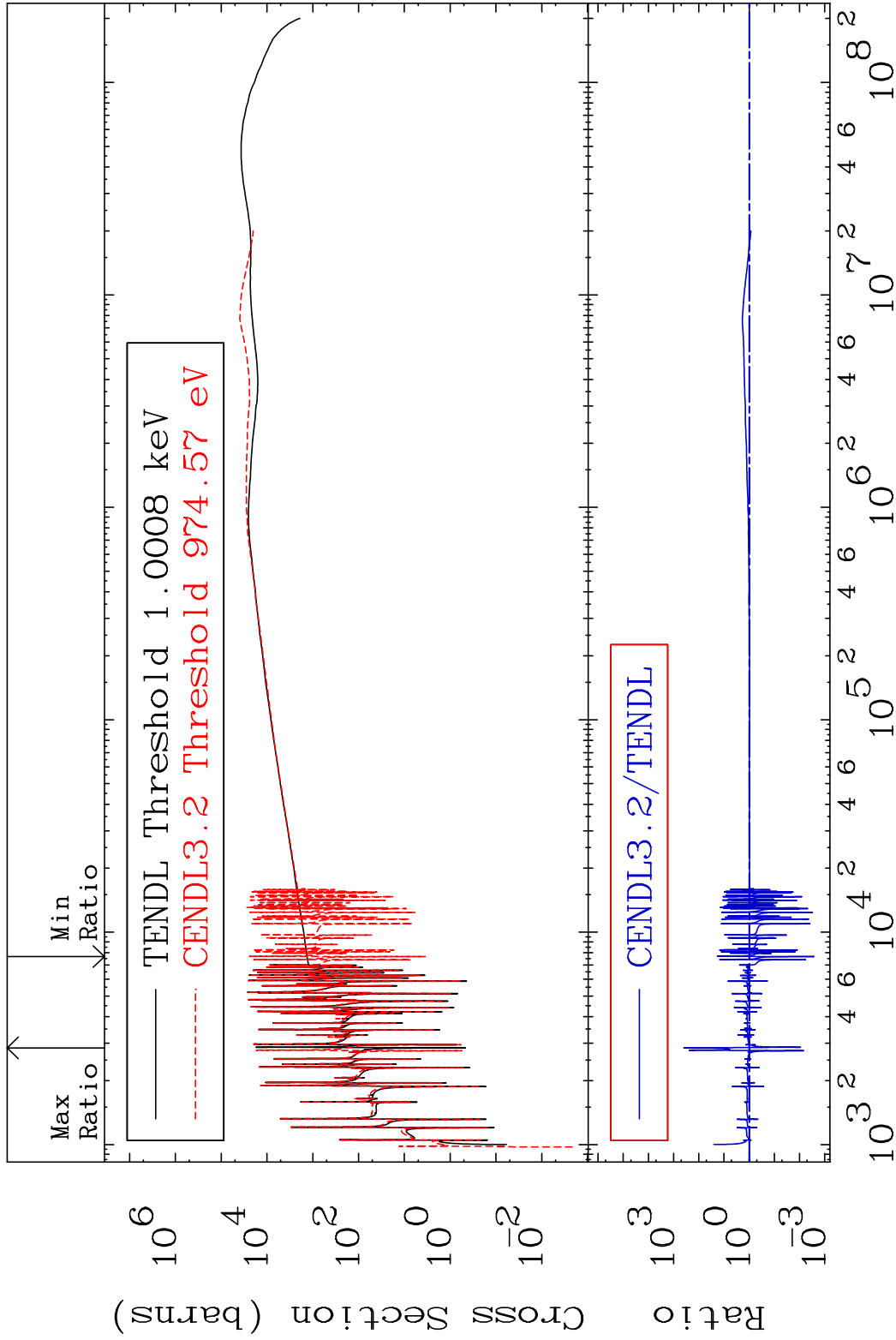


37 Incident Energy (eV) 66-Dy-164

|          |                      |                   |
|----------|----------------------|-------------------|
| MAT 6649 | Dpa total (eV-barns) | 66-Dy-164         |
|          | Cross Section        | -99.08 To 9999. % |

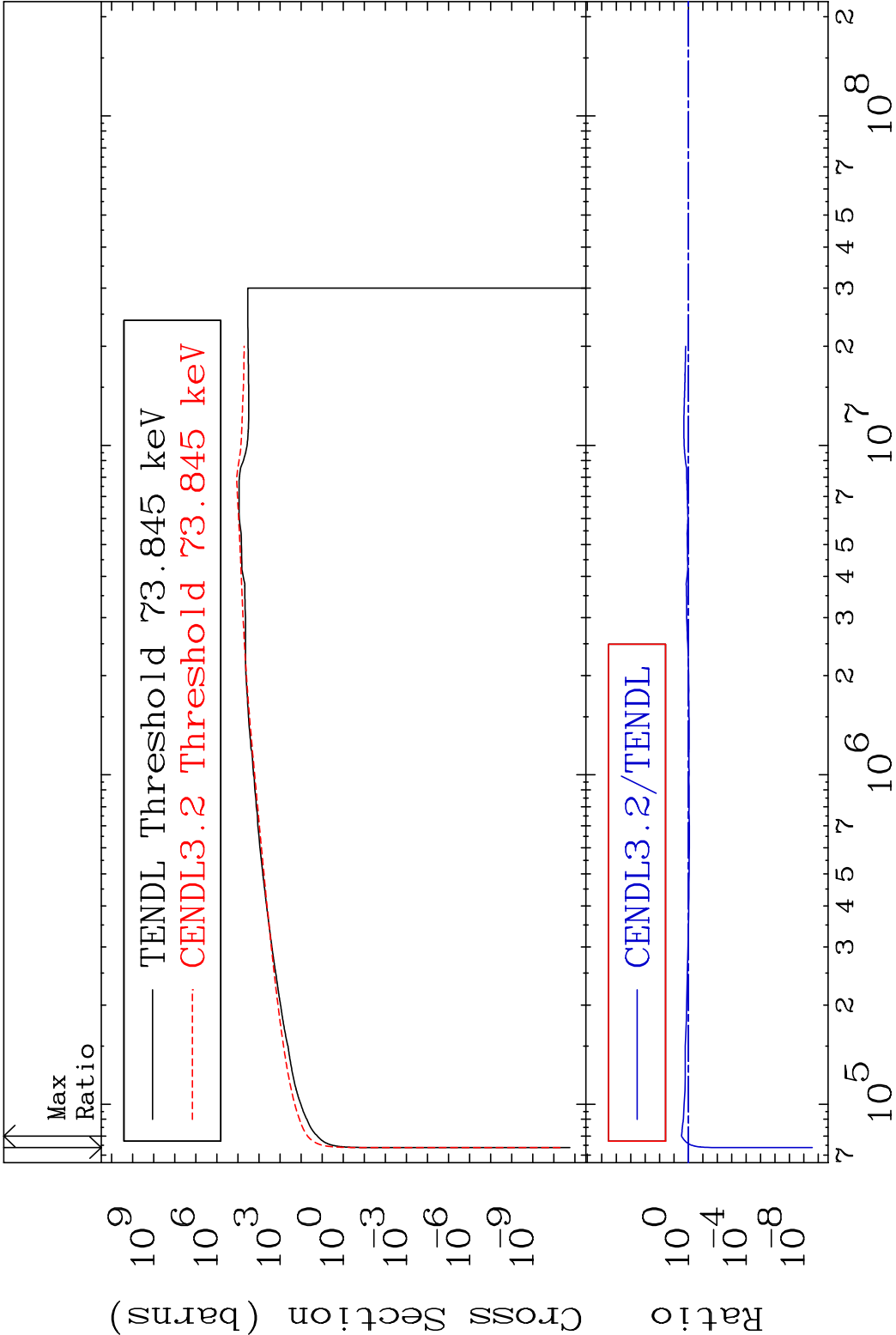


MAT 6649      Dpa elastic (mt2)      66-Dy-164  
Cross Section      -99.74 To 9999. %



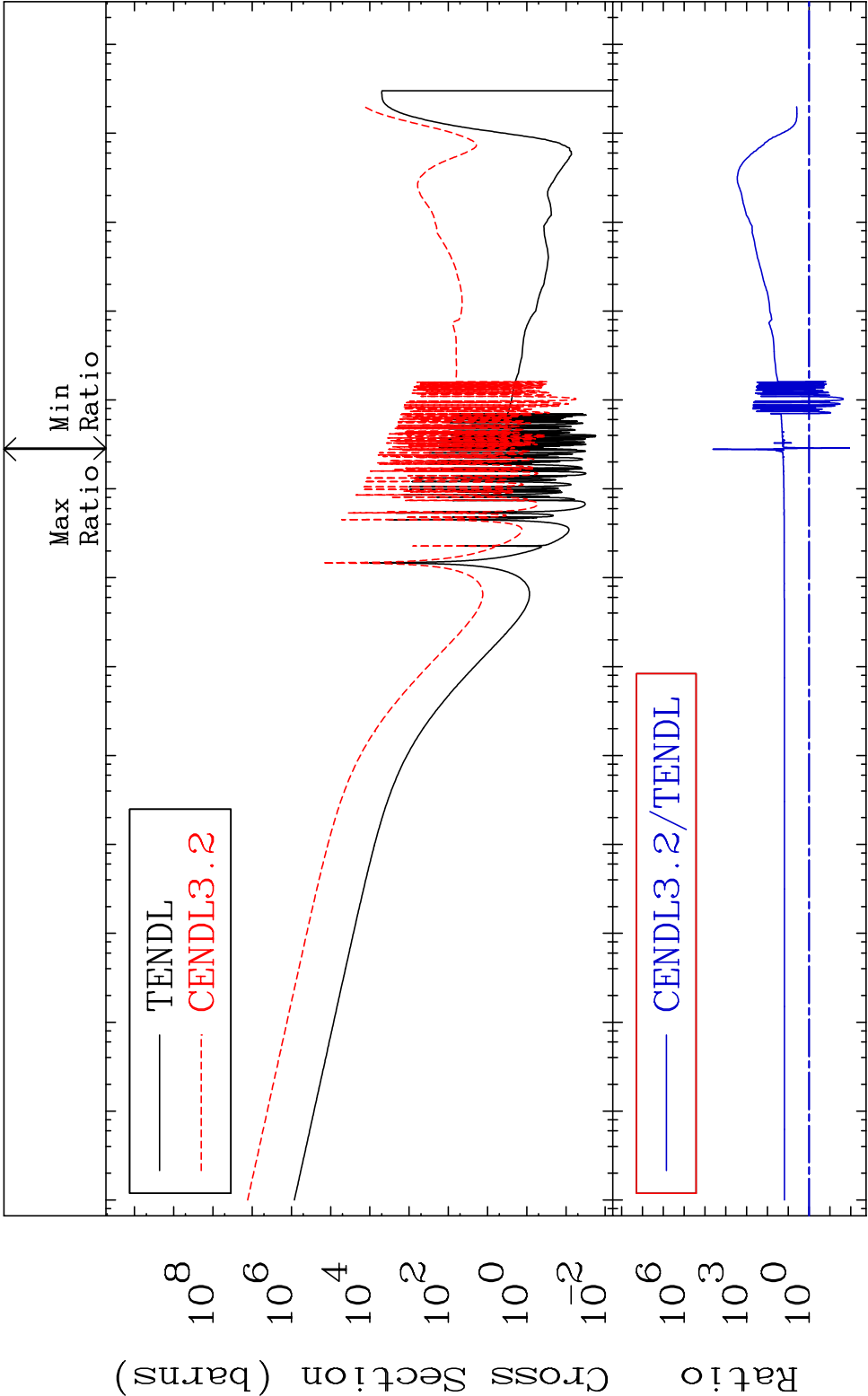
39      Incident Energy (eV)      66-Dy-164

MAT 6649      Dpa inelastic (mt51-91)      66-Dy-164  
Cross Section      -100.0 To 197.4 %

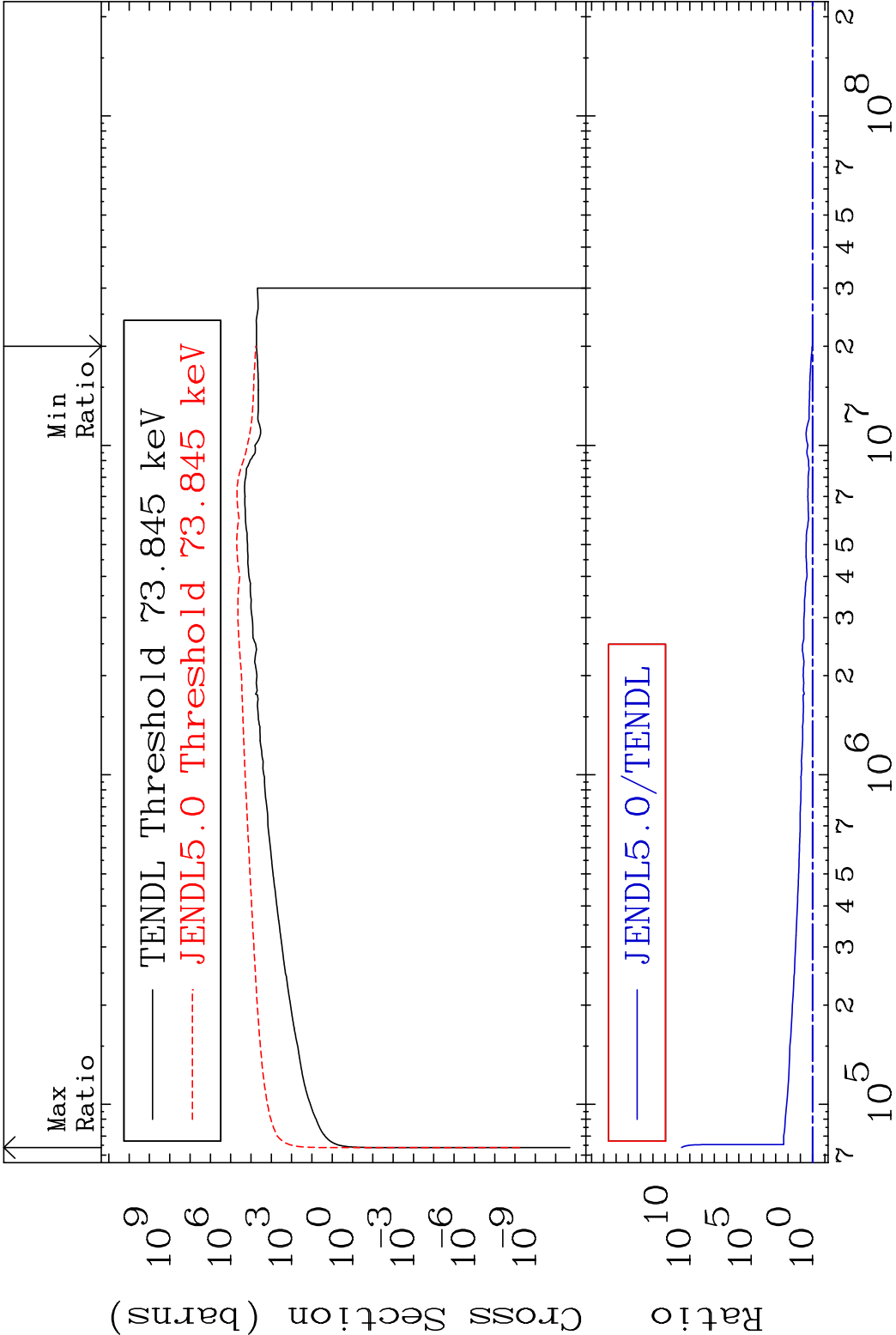


40      Incident Energy (eV)      66-Dy-164

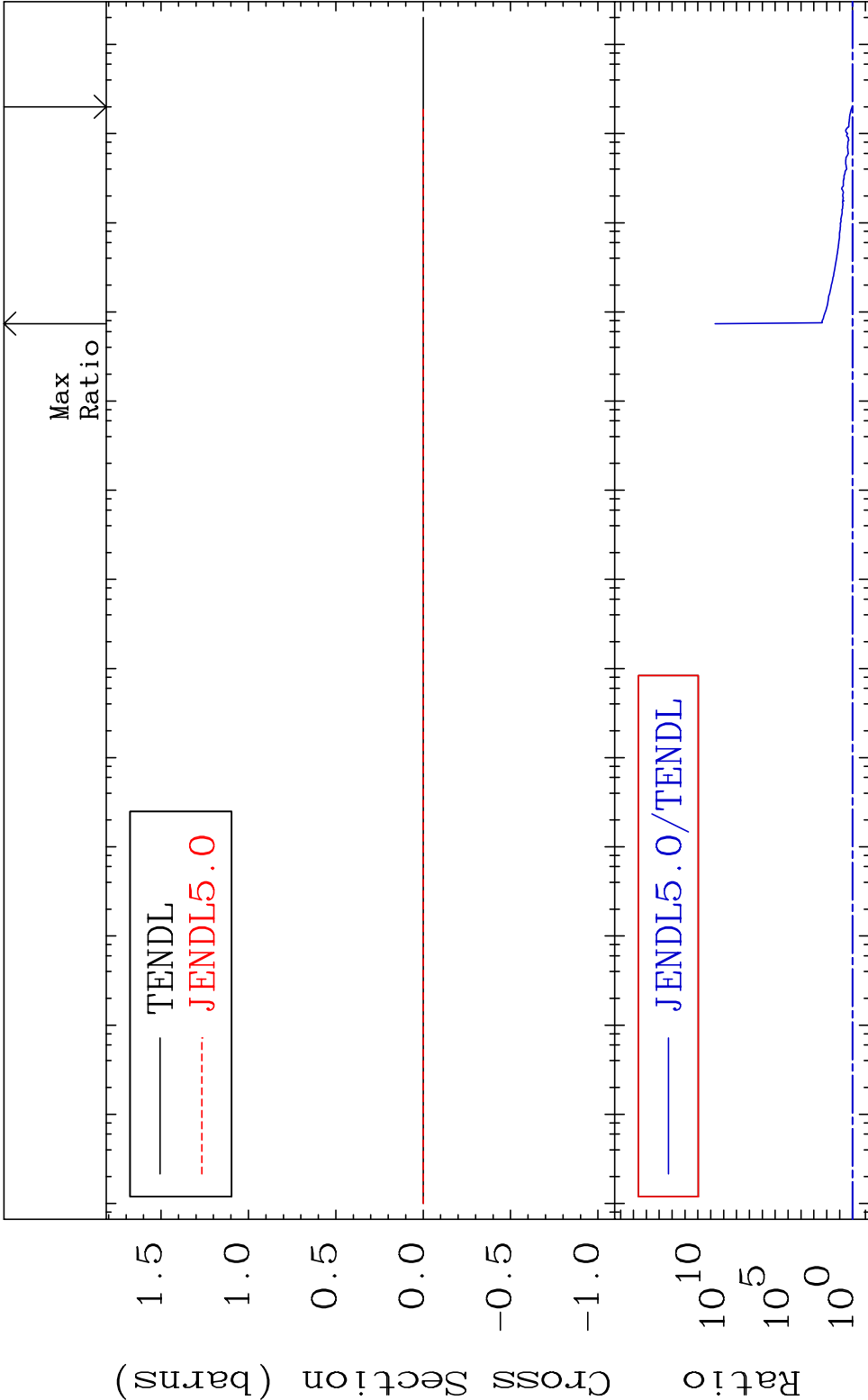
MAT 6649      Dpa disappearance (mt102 -120)      66-Dy-164  
 Cross Section      -98.84 To 9999. %



$10^{-5}$   $10^{-4}$   $10^{-3}$   $10^{-2}$   $10^{-1}$   $10^0$   $10^1$   $10^2$   $10^3$   $10^4$   $10^5$   $10^6$   $10^7$   $10^8$   
 41      Incident Energy (eV)      66-Dy-164

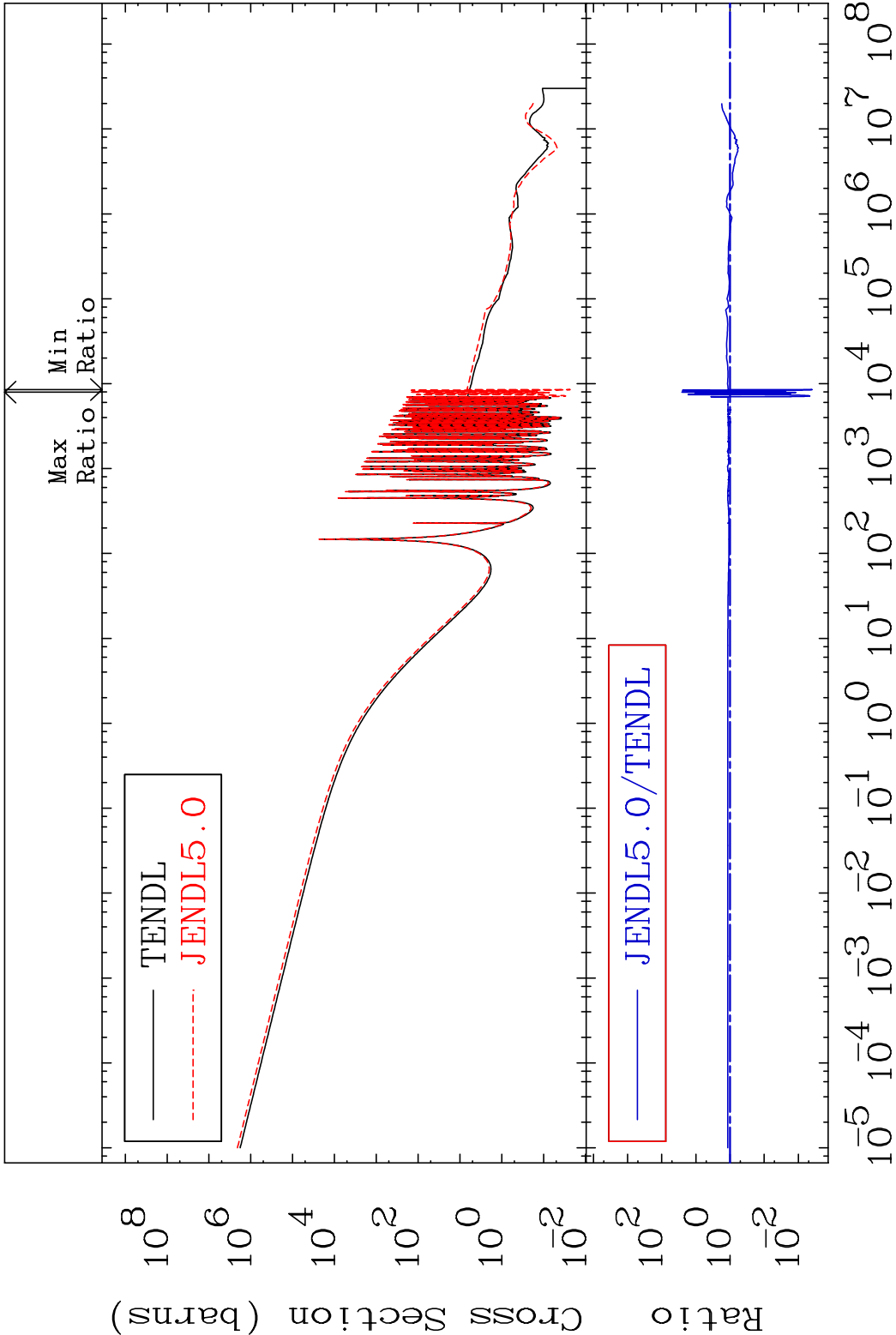


MAT 6649Kerma fission (mt18 or mt19-20-21-38)66-Dy-164  
Cross Section 6.432 To 9999. %

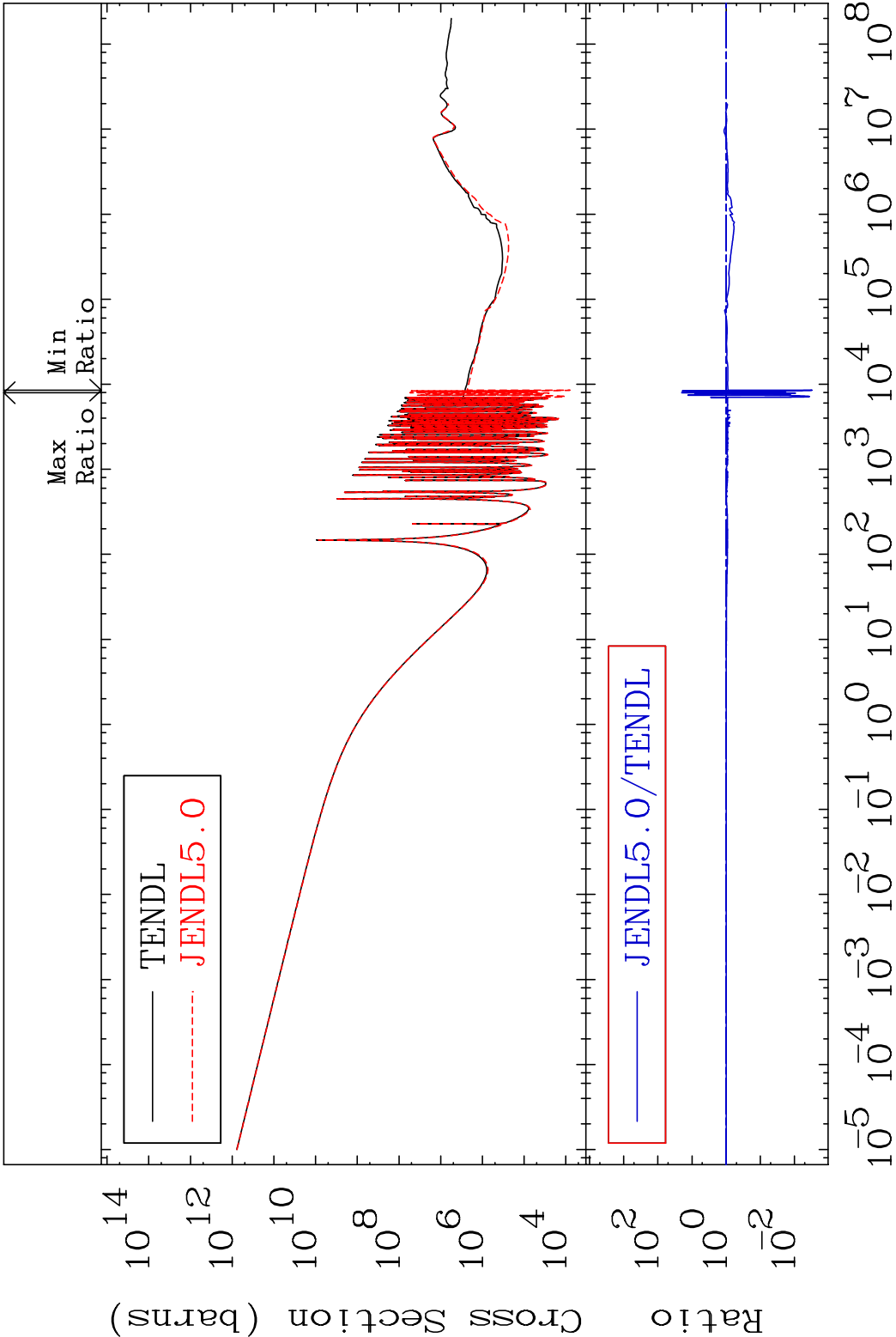


43                      Incident Energy (eV)                      66-Dy-164

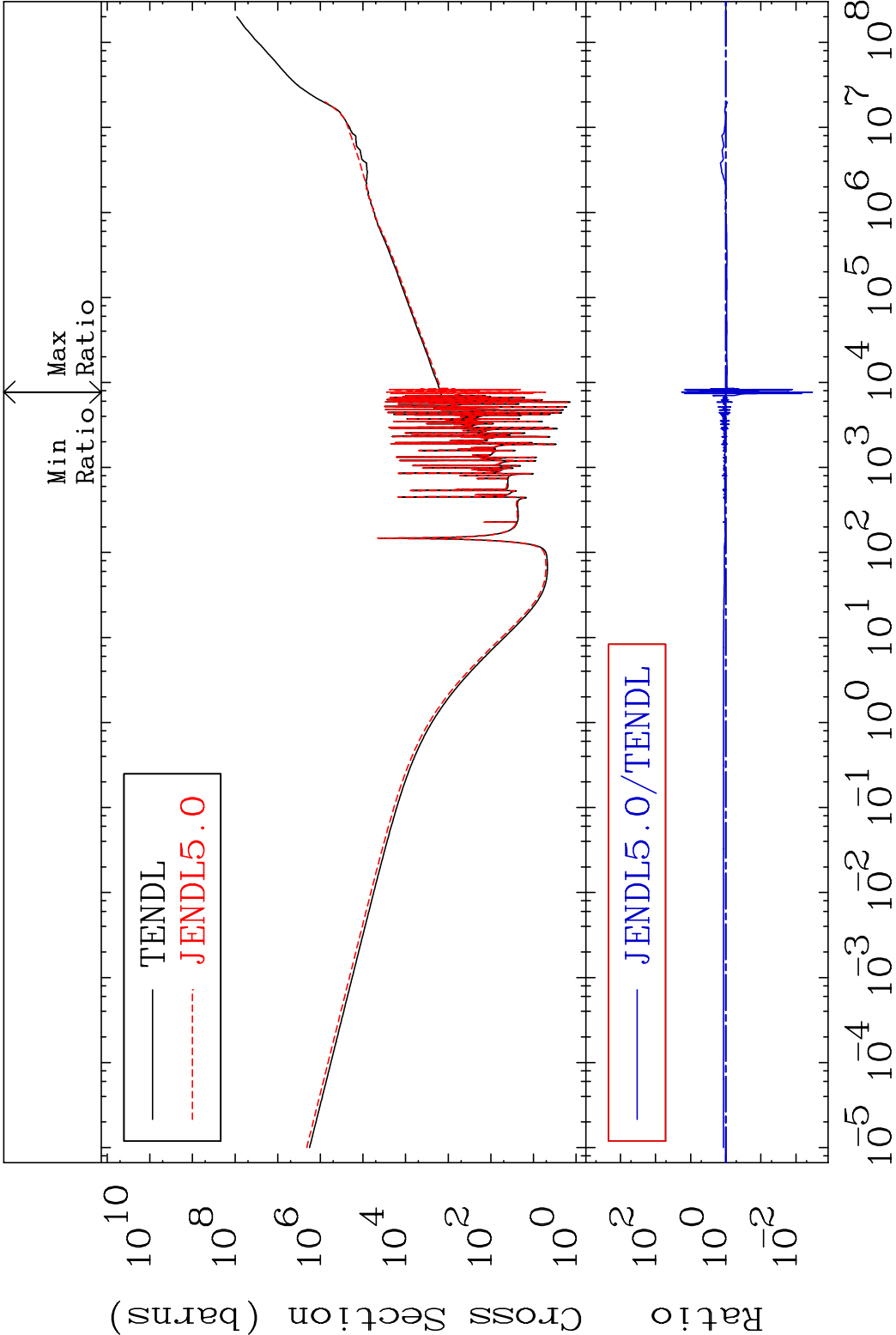
MAT 6649      Kerma capture (mt102)      66-Dy-164  
Cross Section      -99.61 To 2499. %



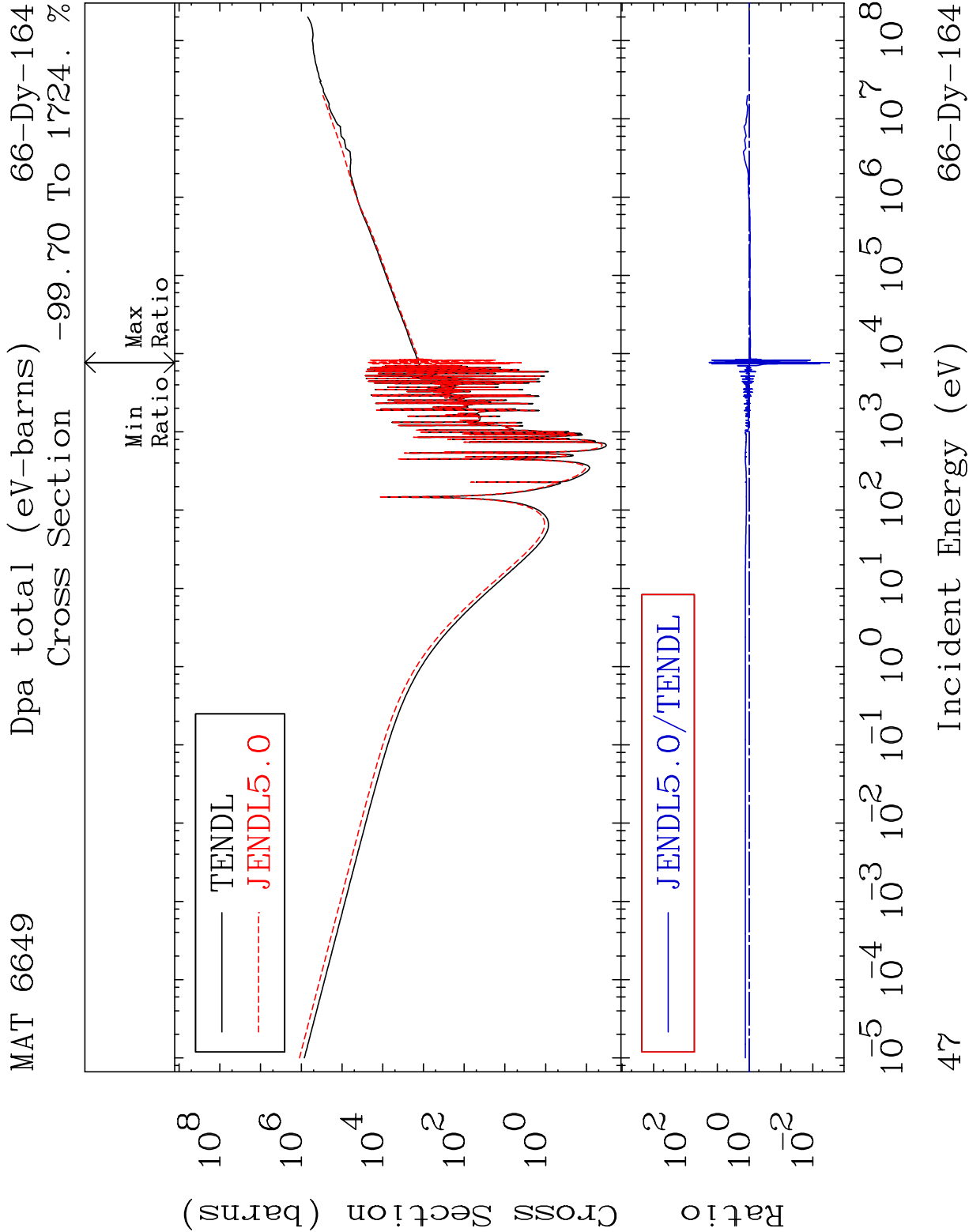
44      Incident Energy (eV)      66-Dy-164



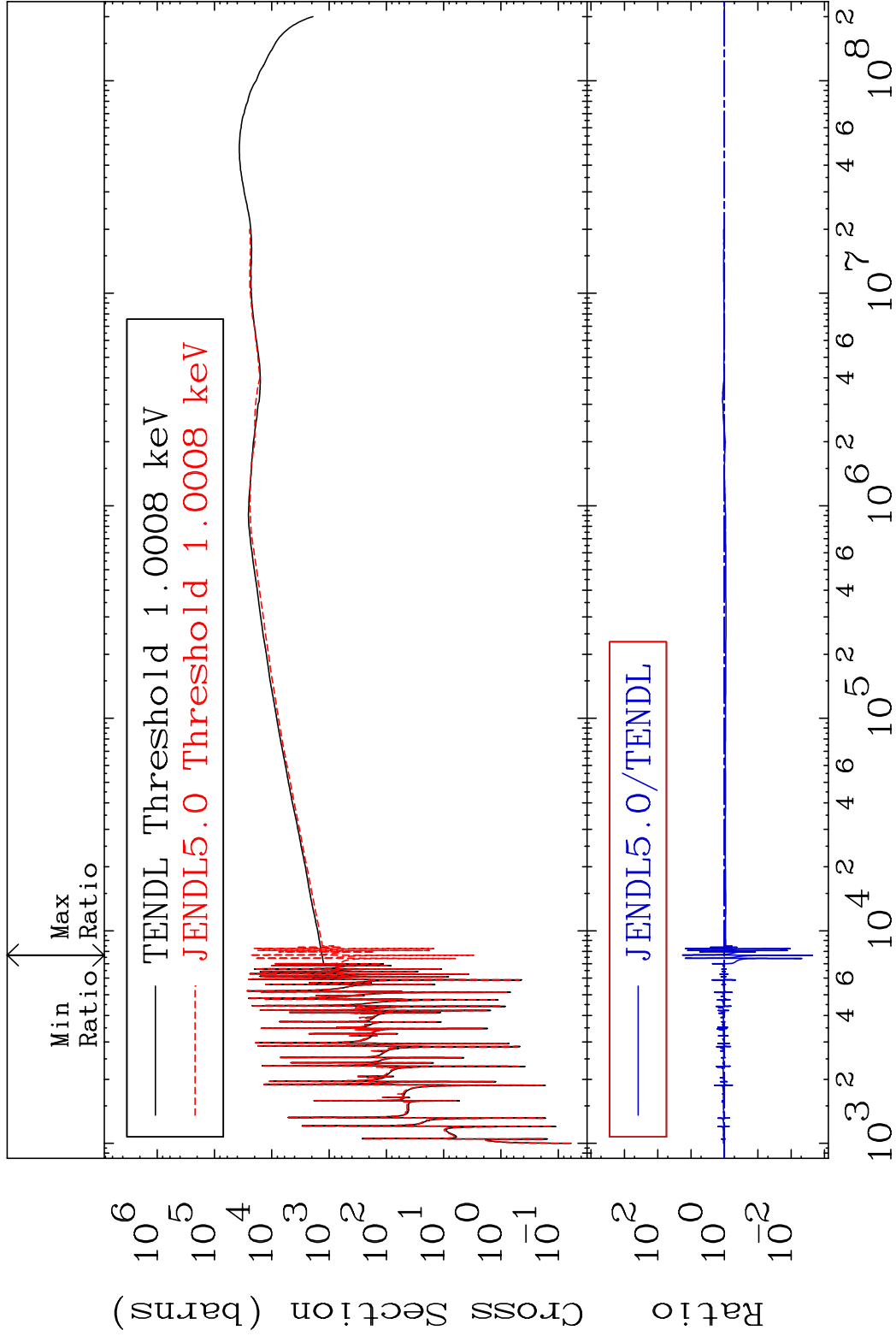
MAT 6649 Total kinematic kerma (high limit) 66-Dy-164  
Cross Section -99.66 To 1719. %



66-Dy-164



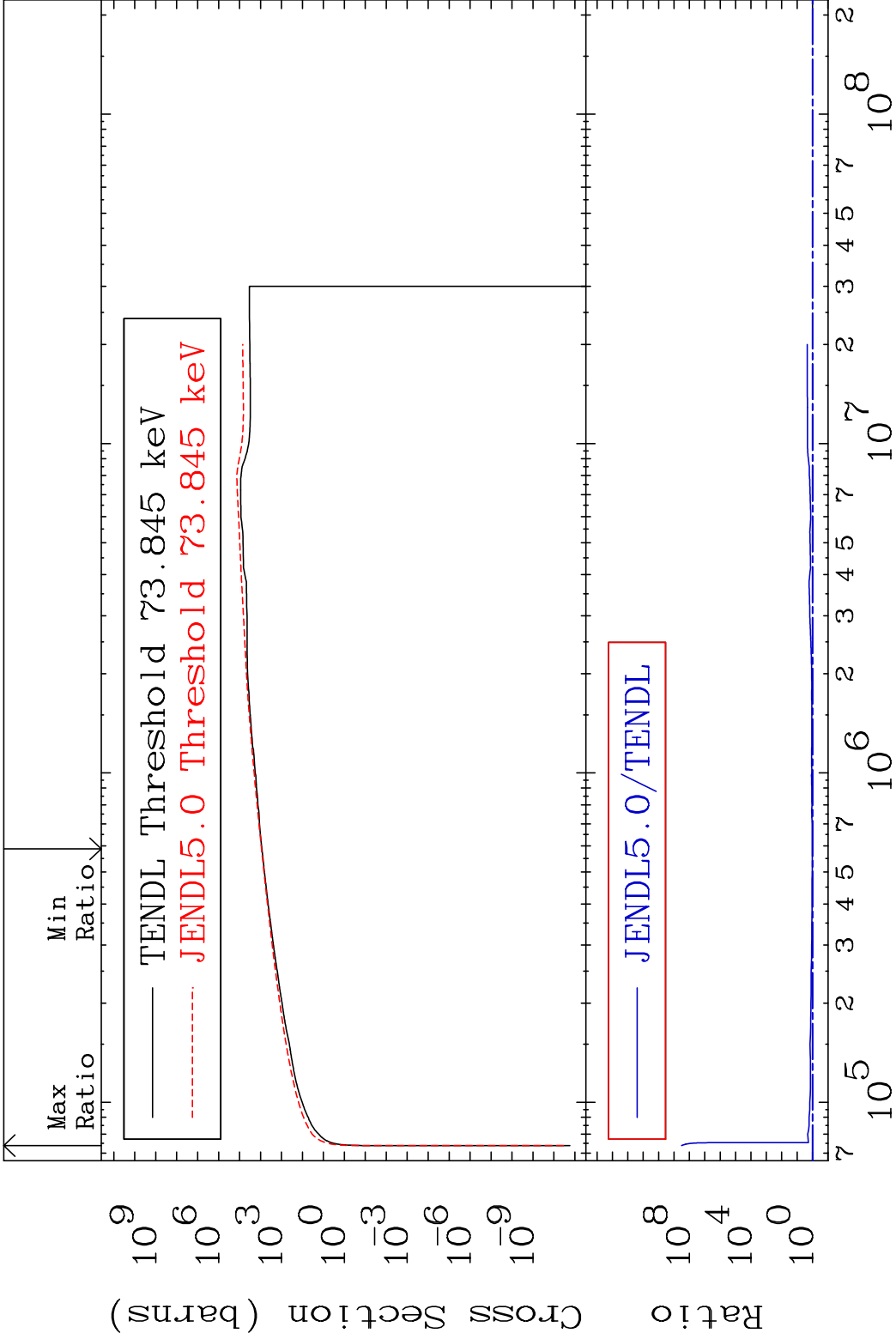
MAT 6649                      Dpa elastic (mt2)                      66-Dy-164  
Cross Section                      -99.77 To 1726. %



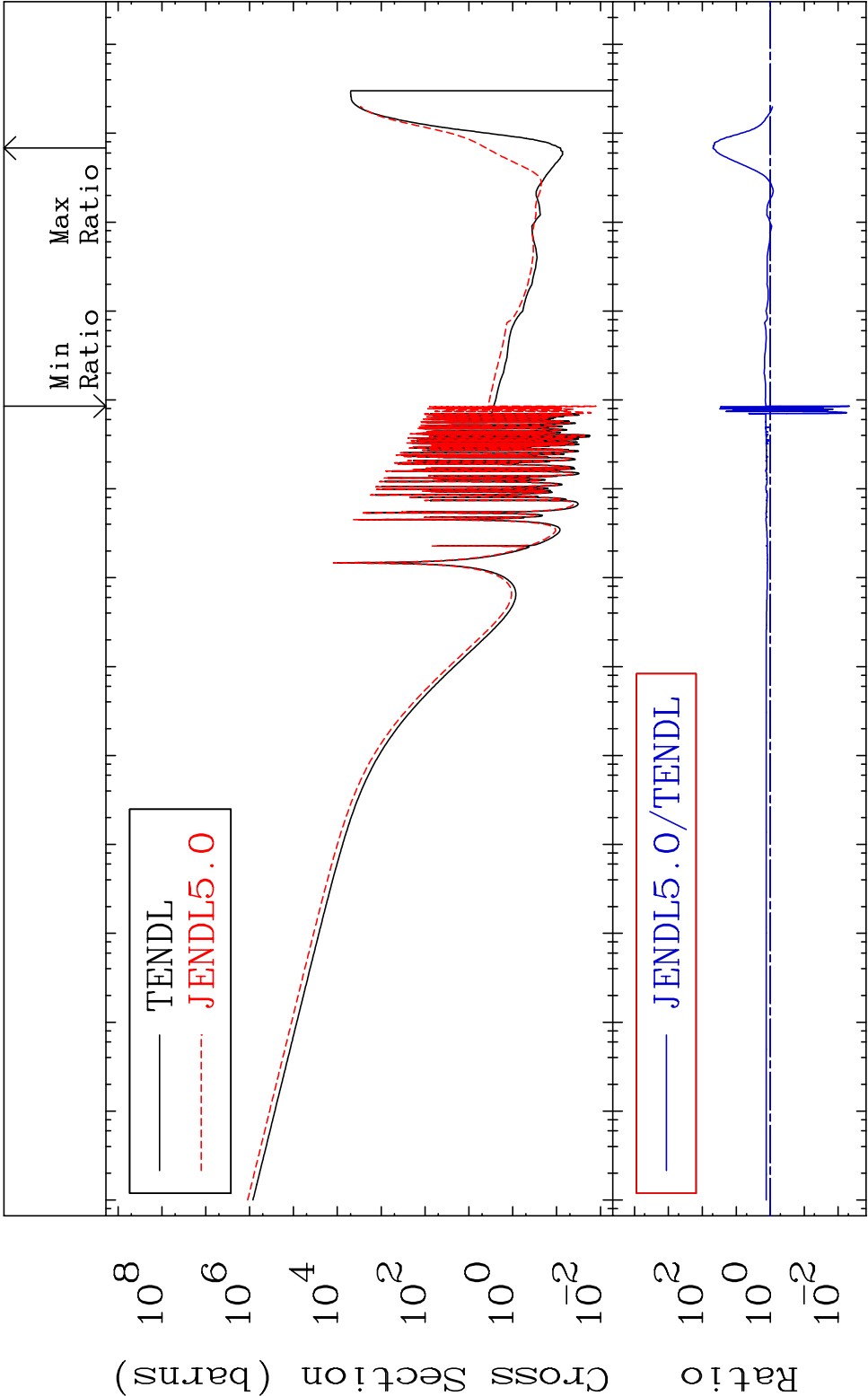
48                      Incident Energy (eV)                      66-Dy-164

MAT 6649      Dpa inelastic (mt51-91)      66-Dy-164

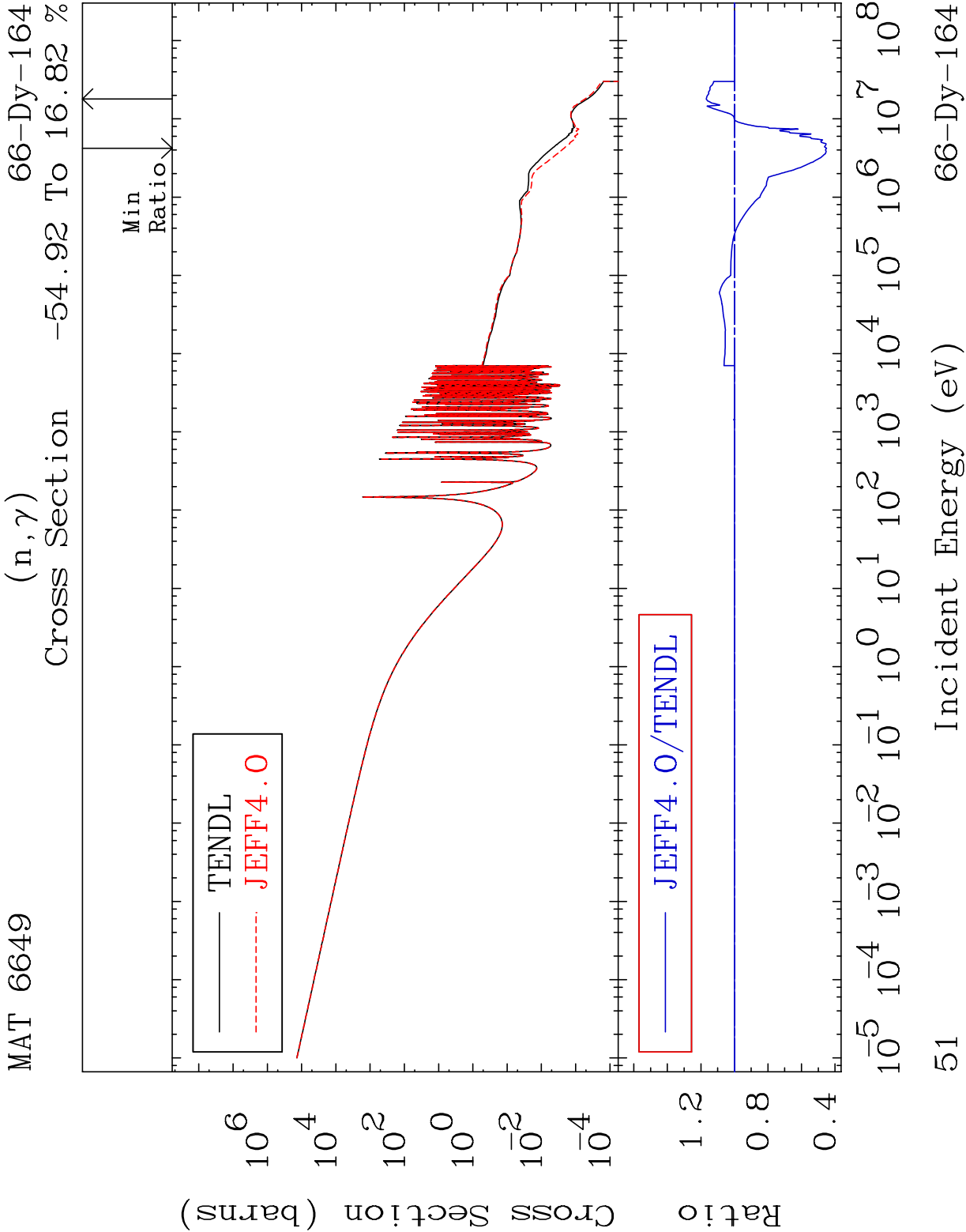
Cross Section    4.106    To 9999. %

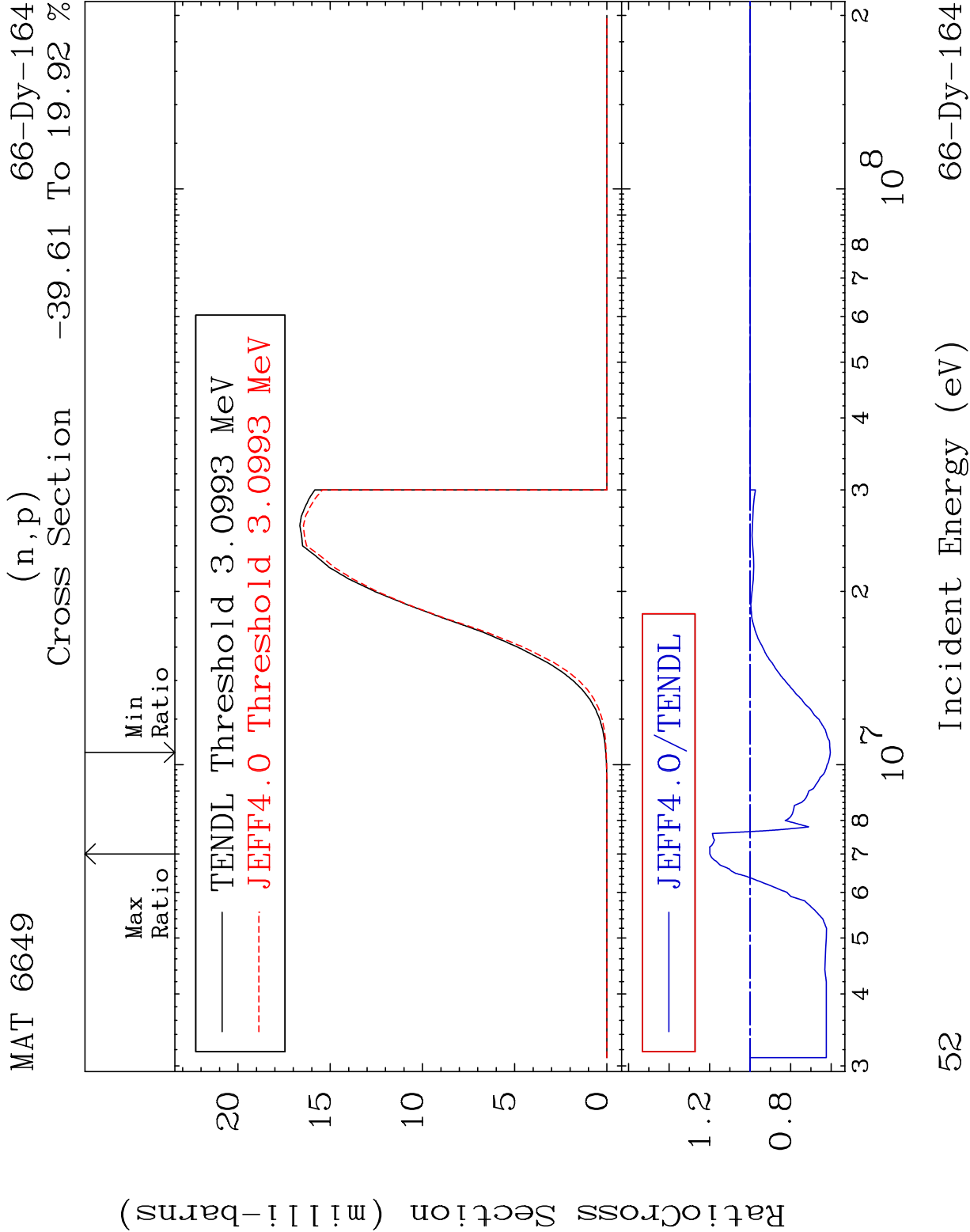


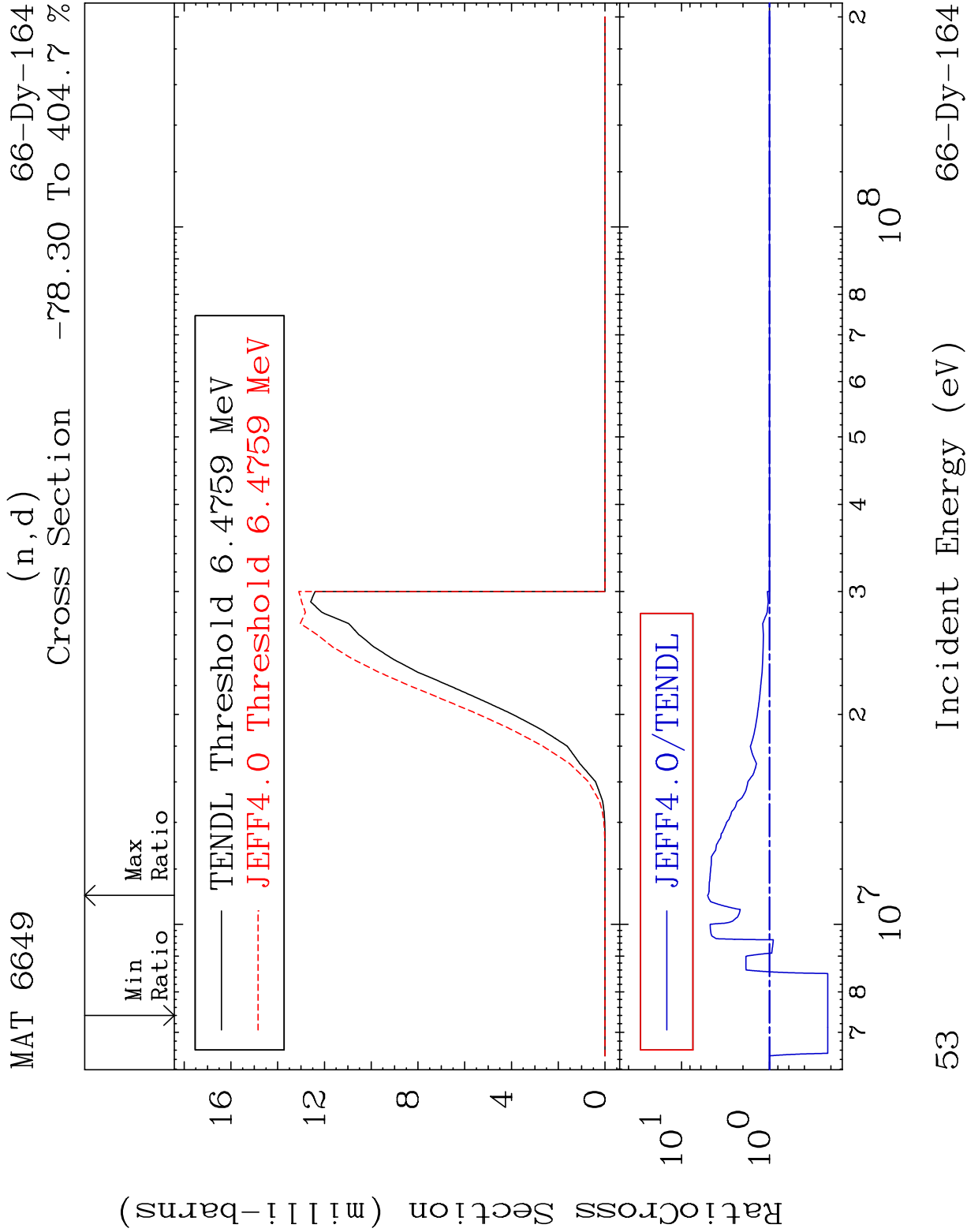
MAT 6649    Dpa disappearance (mt102 -120)    66-Dy-164  
Cross Section    -99.54 To 4823. %

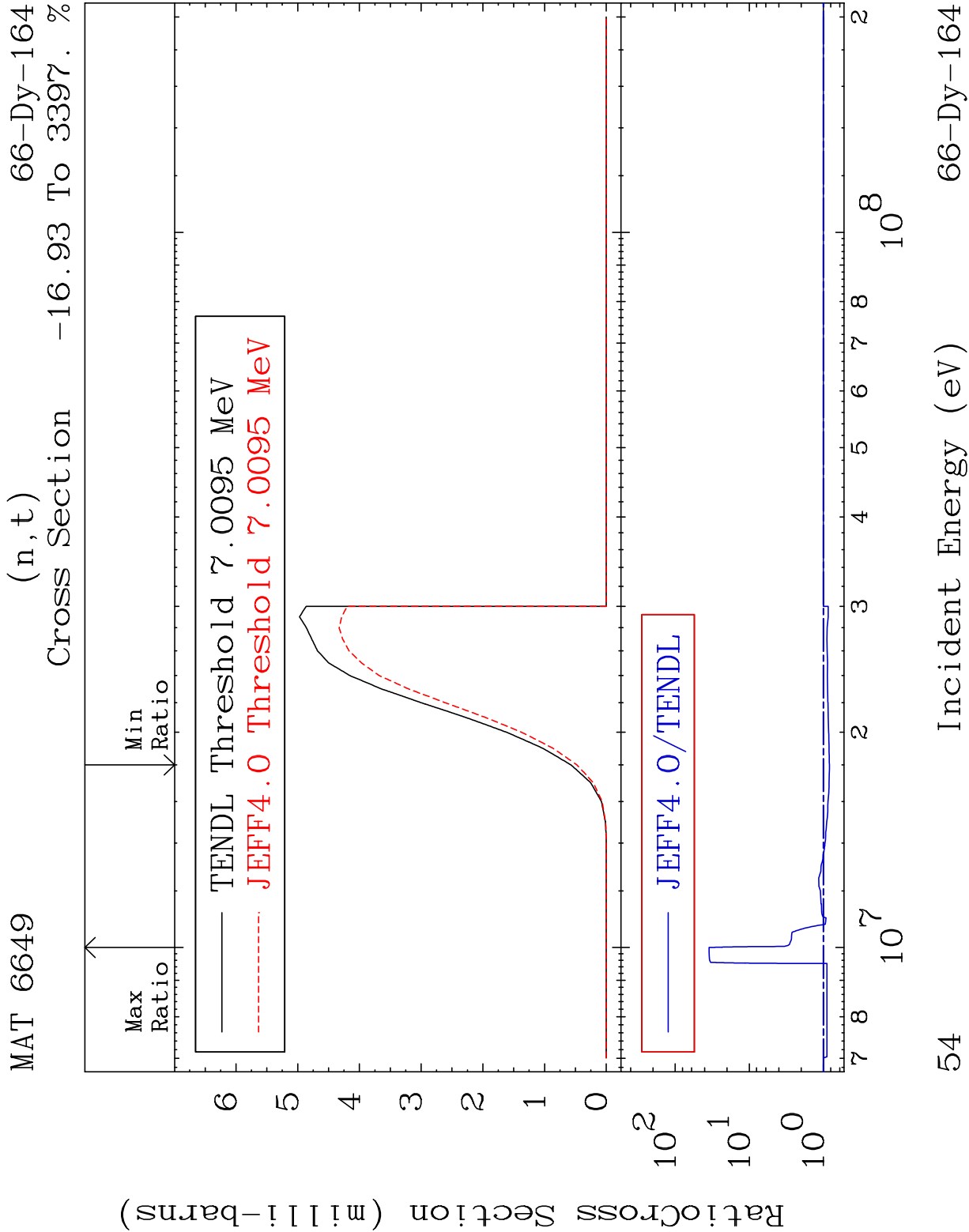


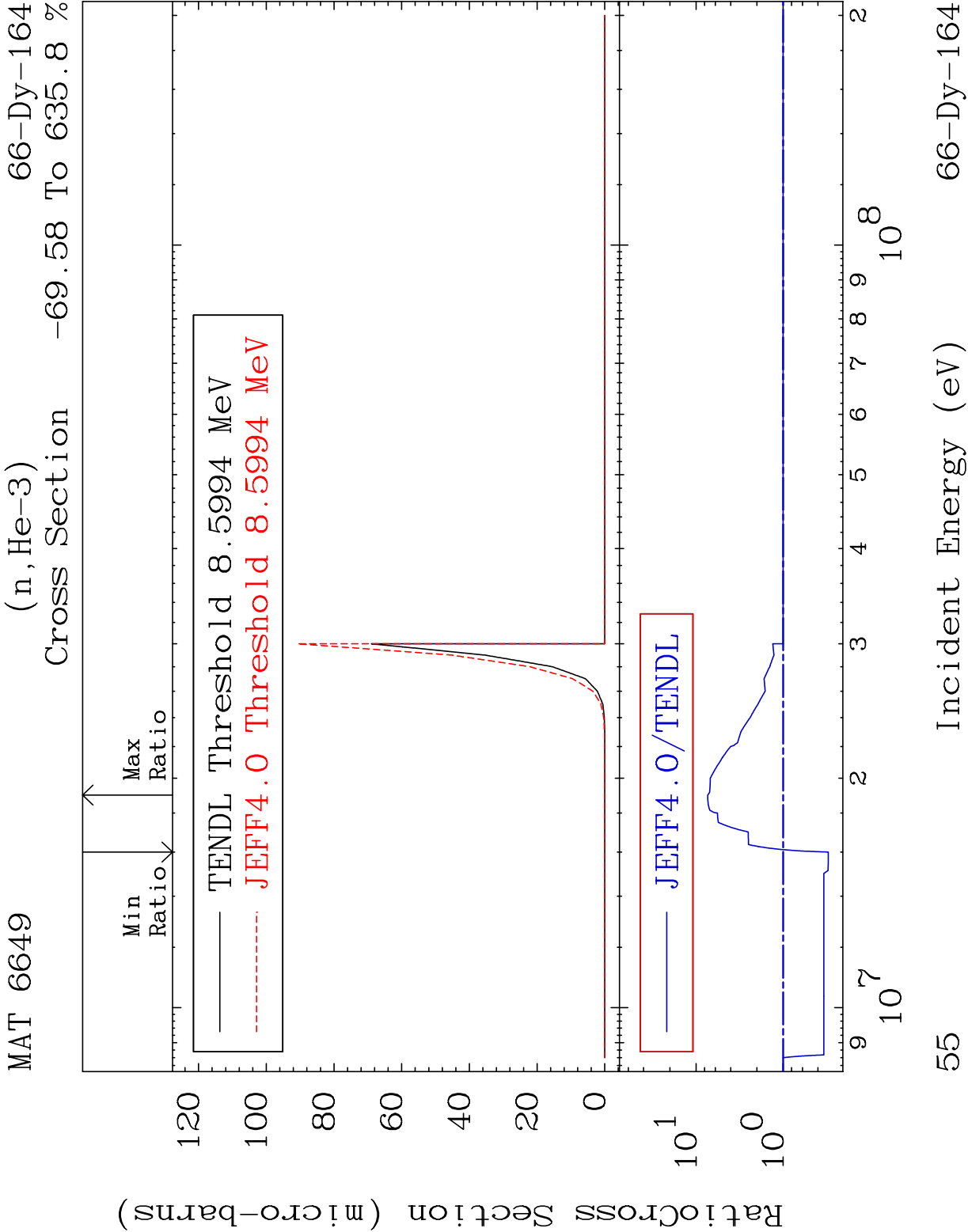
50    Incident Energy (eV)    66-Dy-164

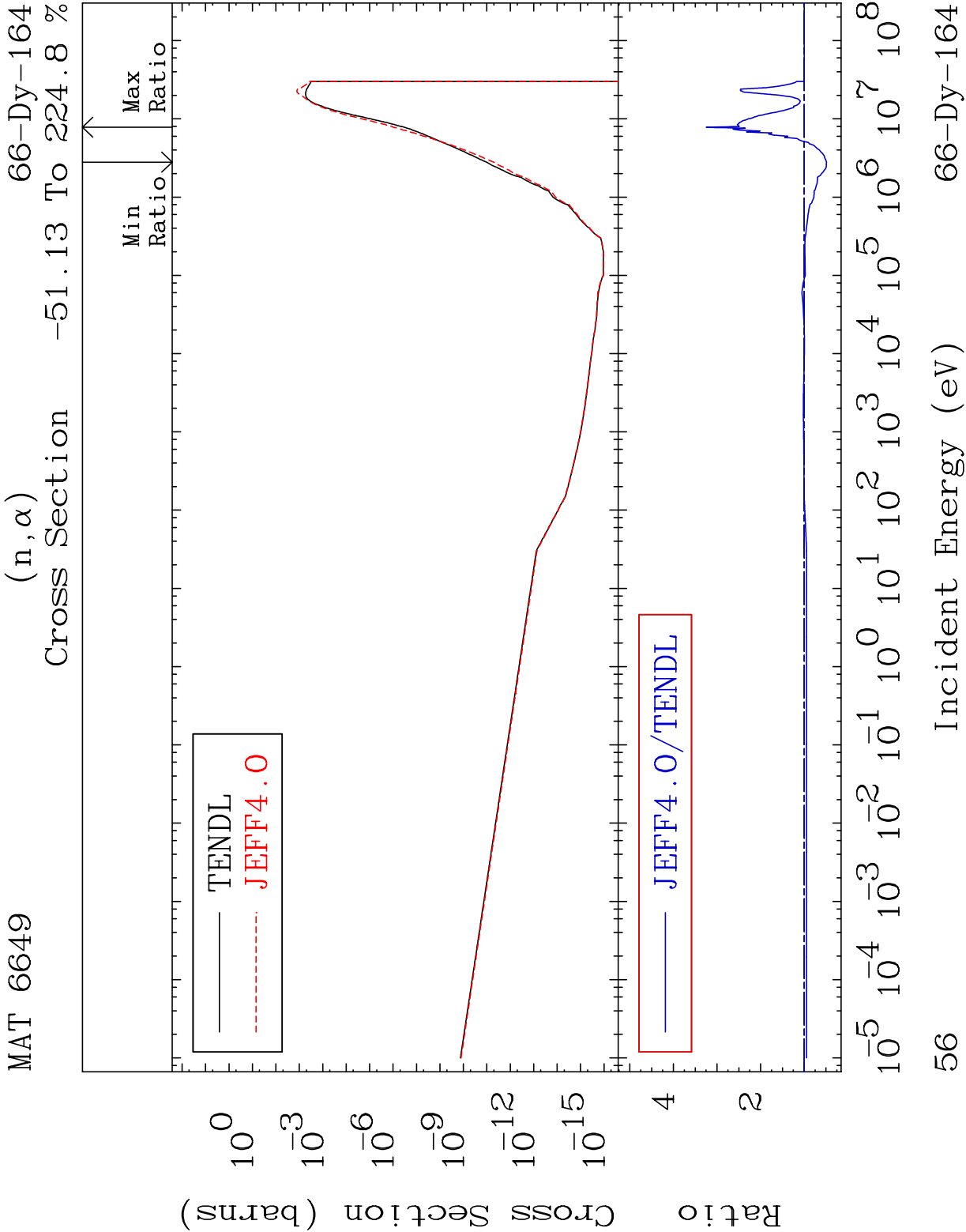










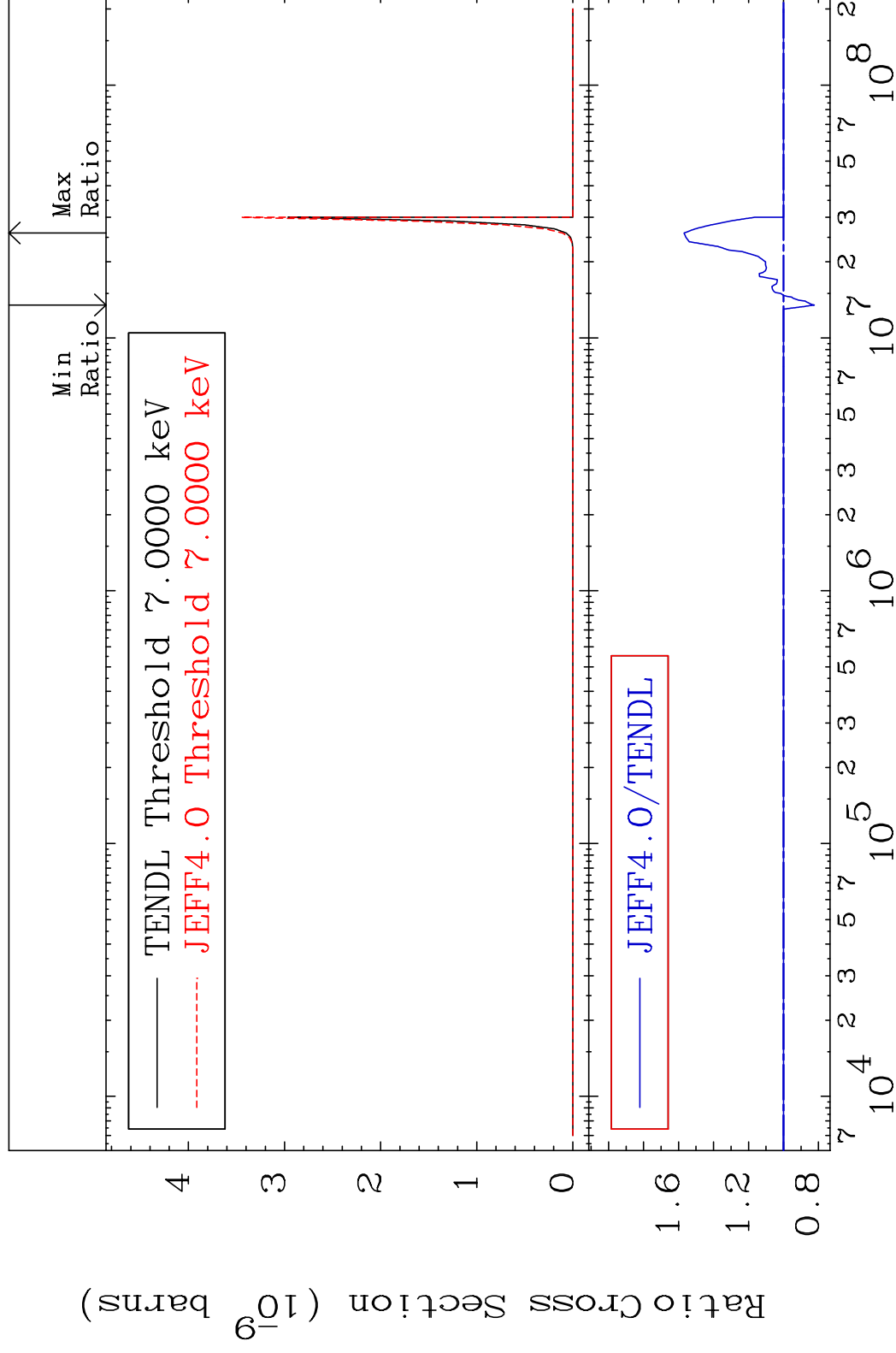


MAT 6649

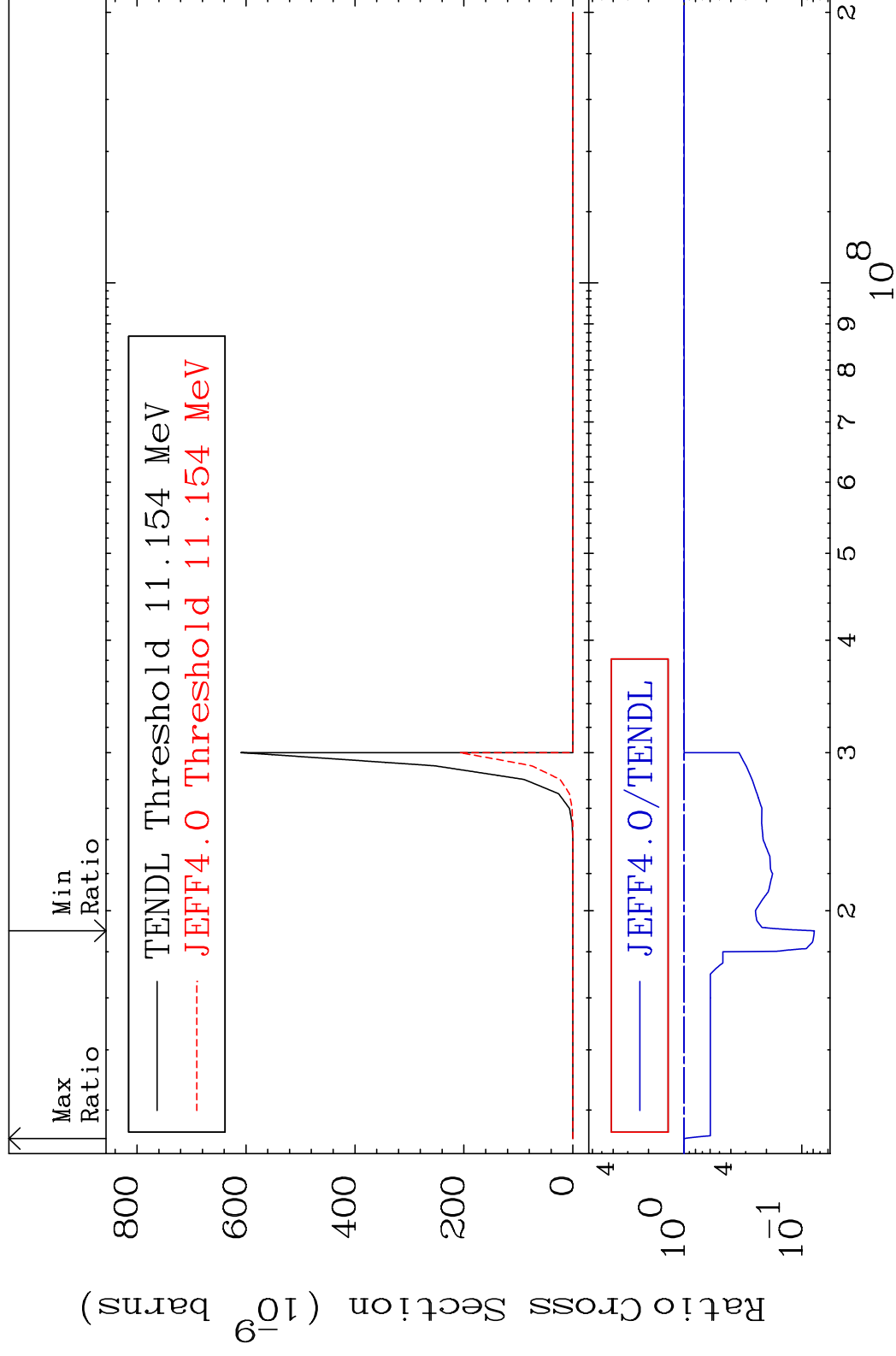
$$(n, 2\alpha)$$

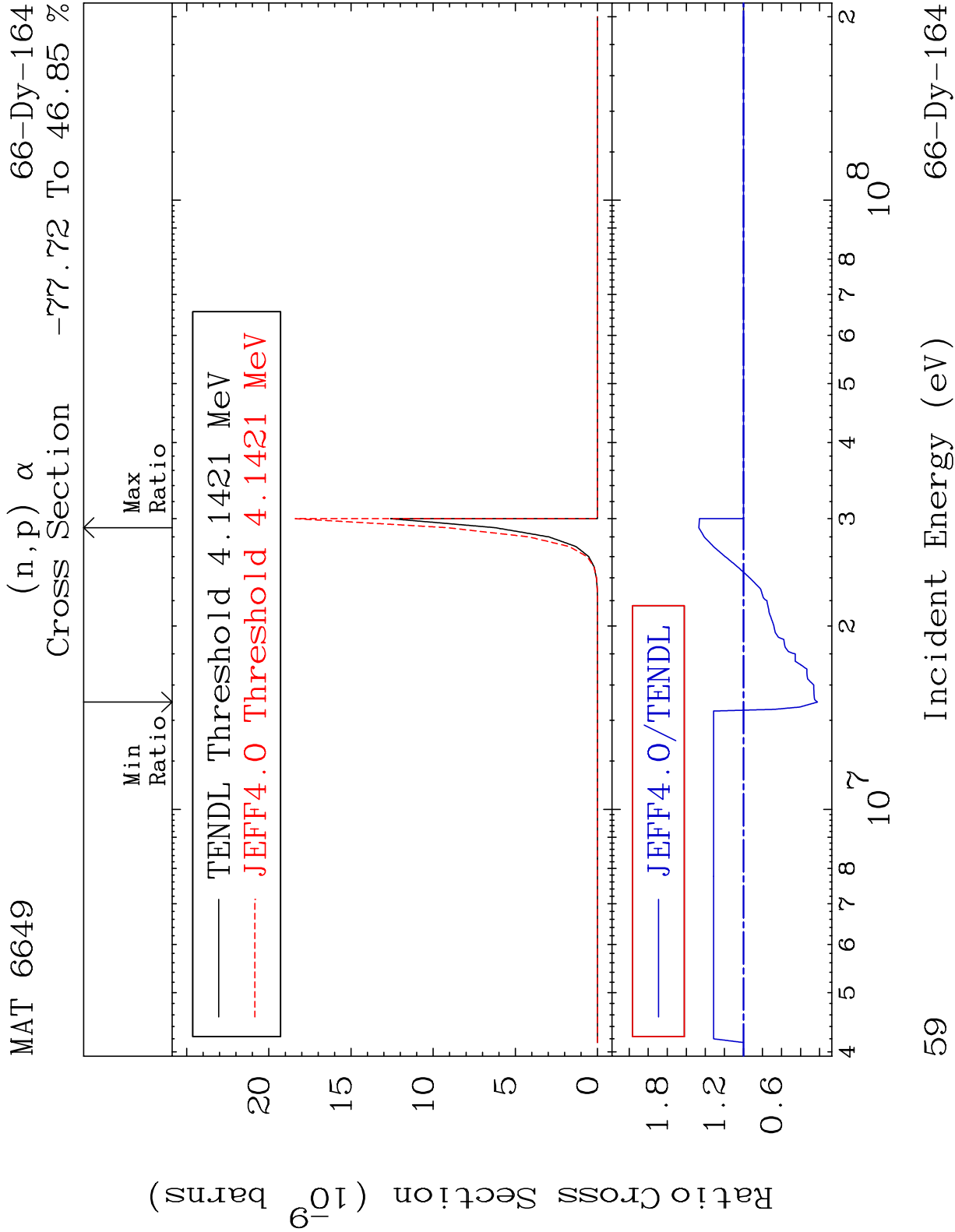
66-Dy-164

Cross Section  $-17.60$  To  $56.87$  %

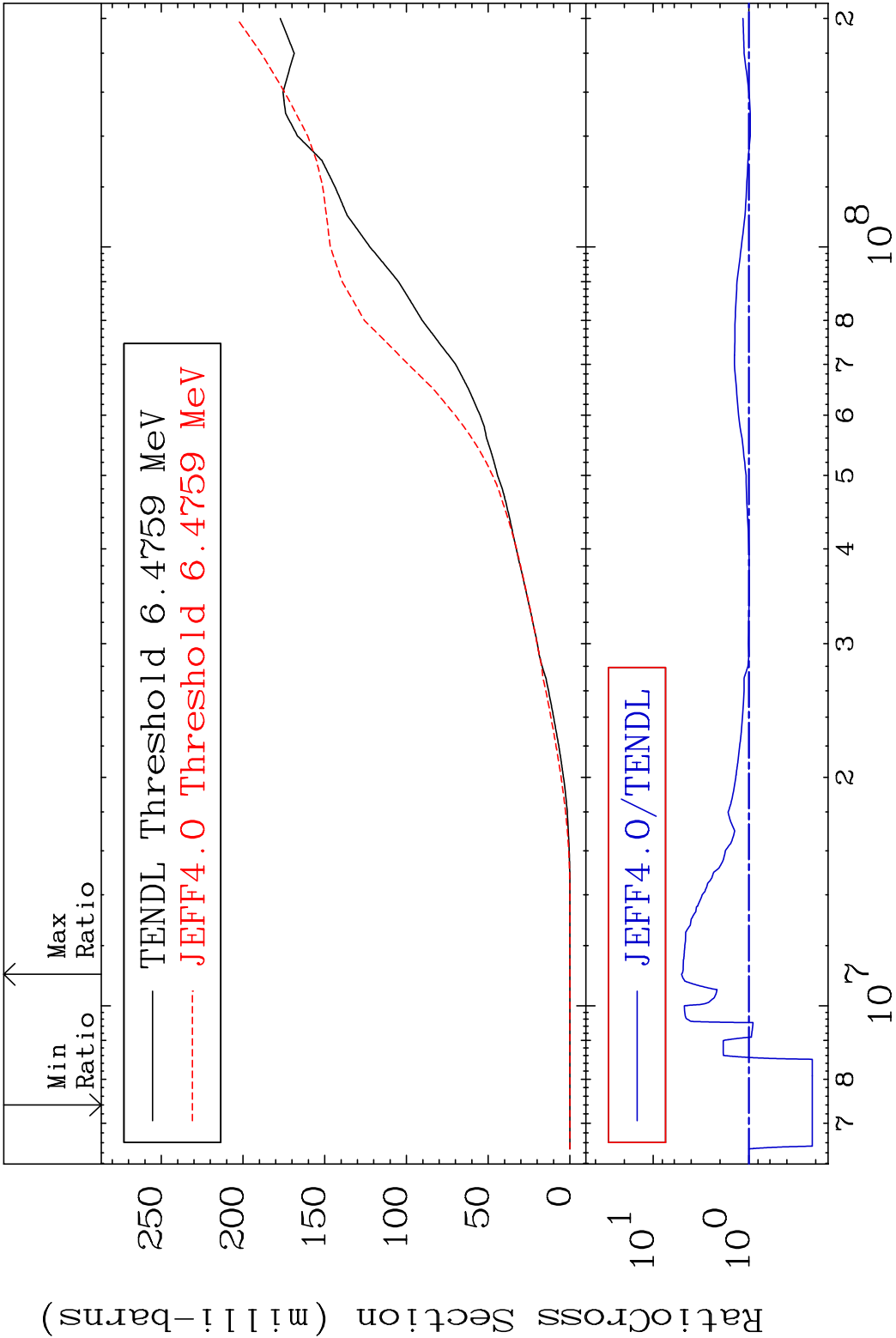


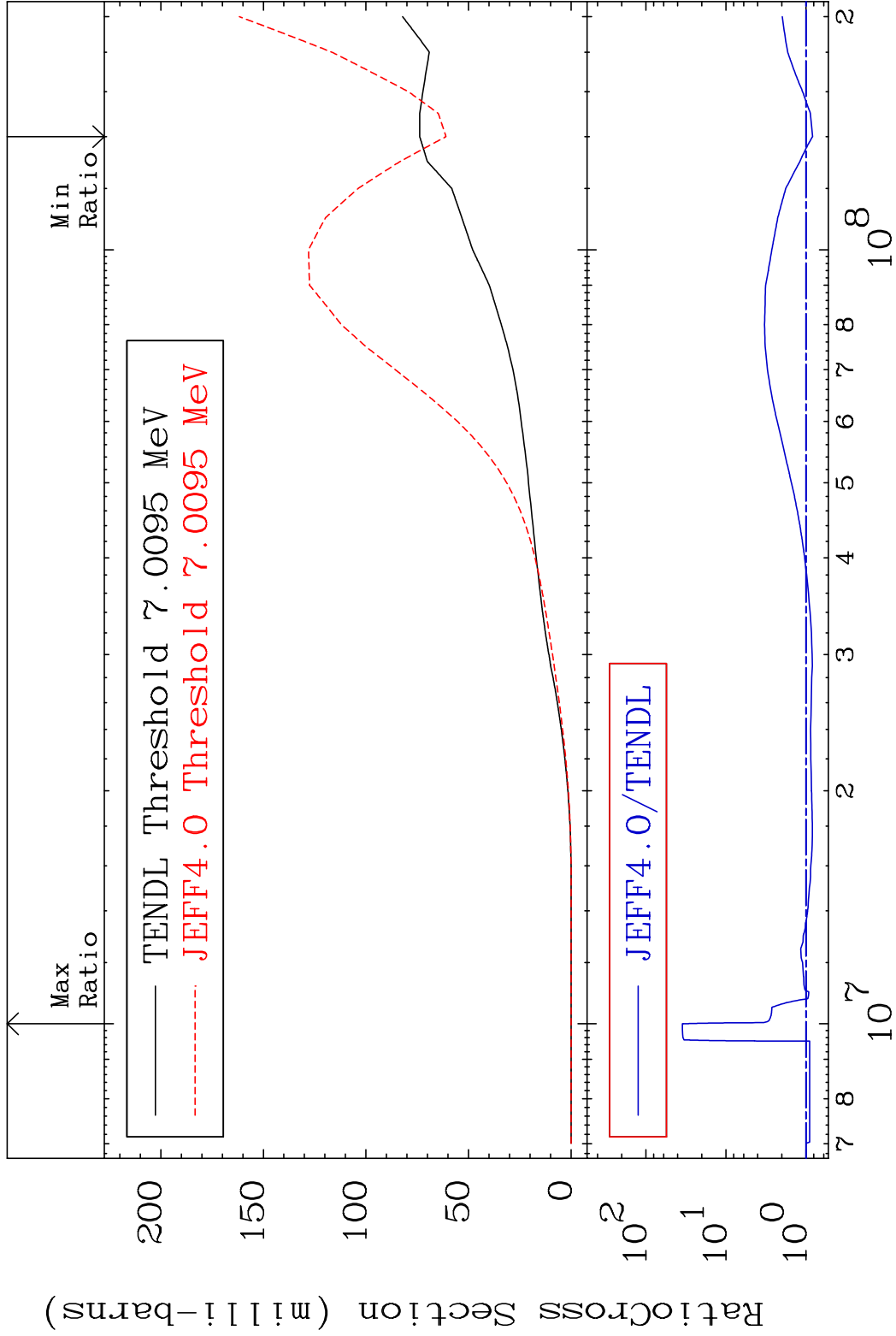
Cross Section -92.15 To 0.000 %

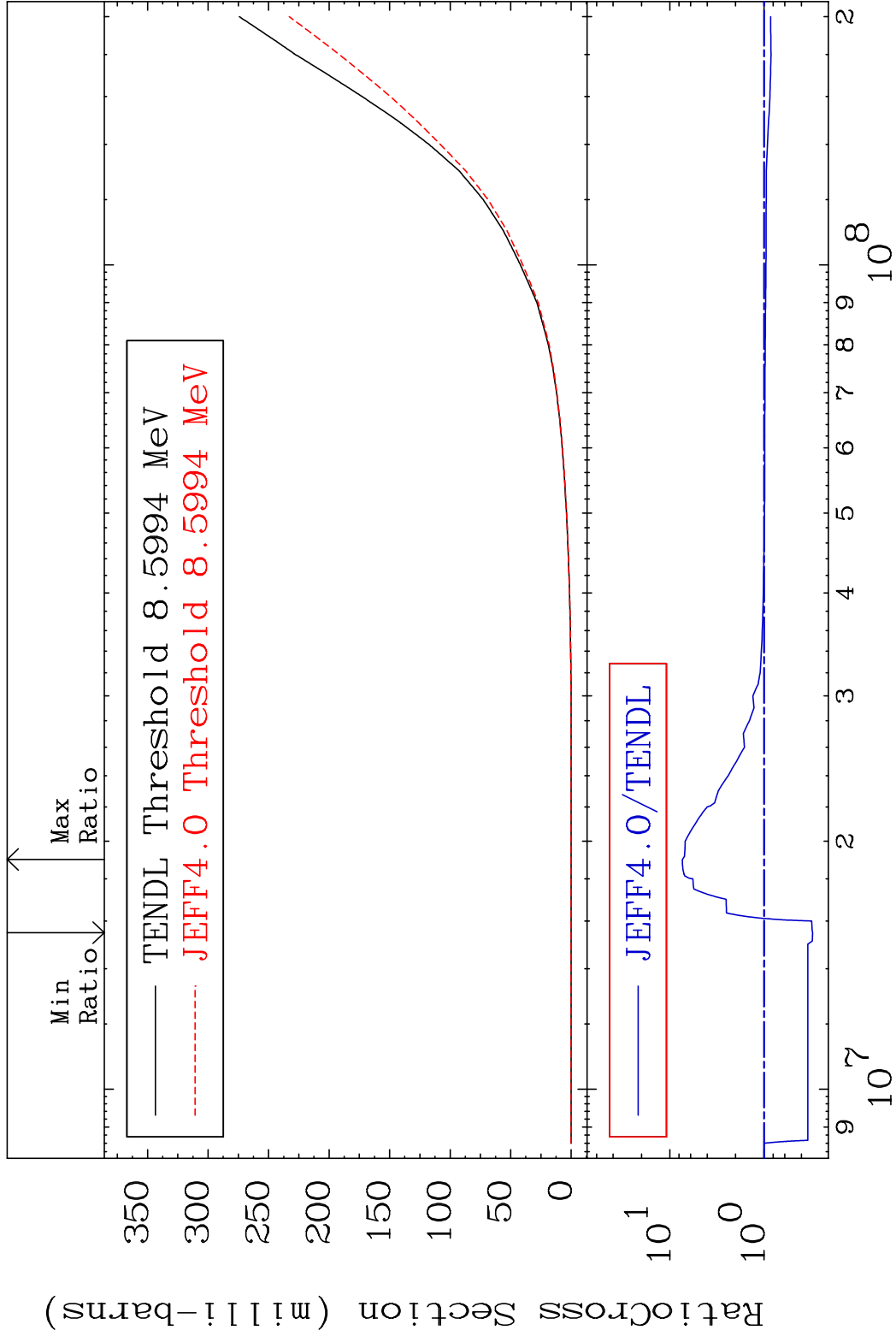




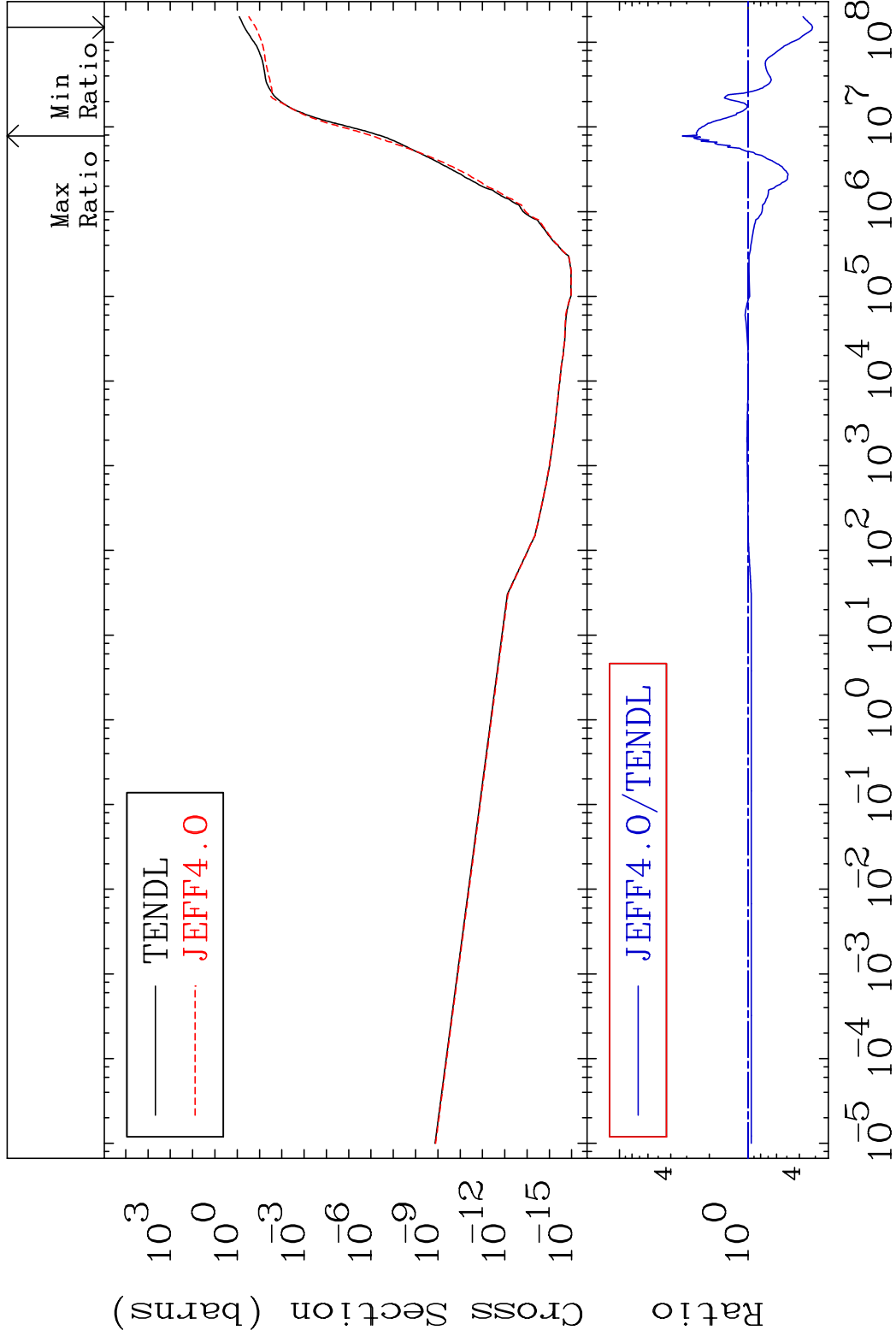






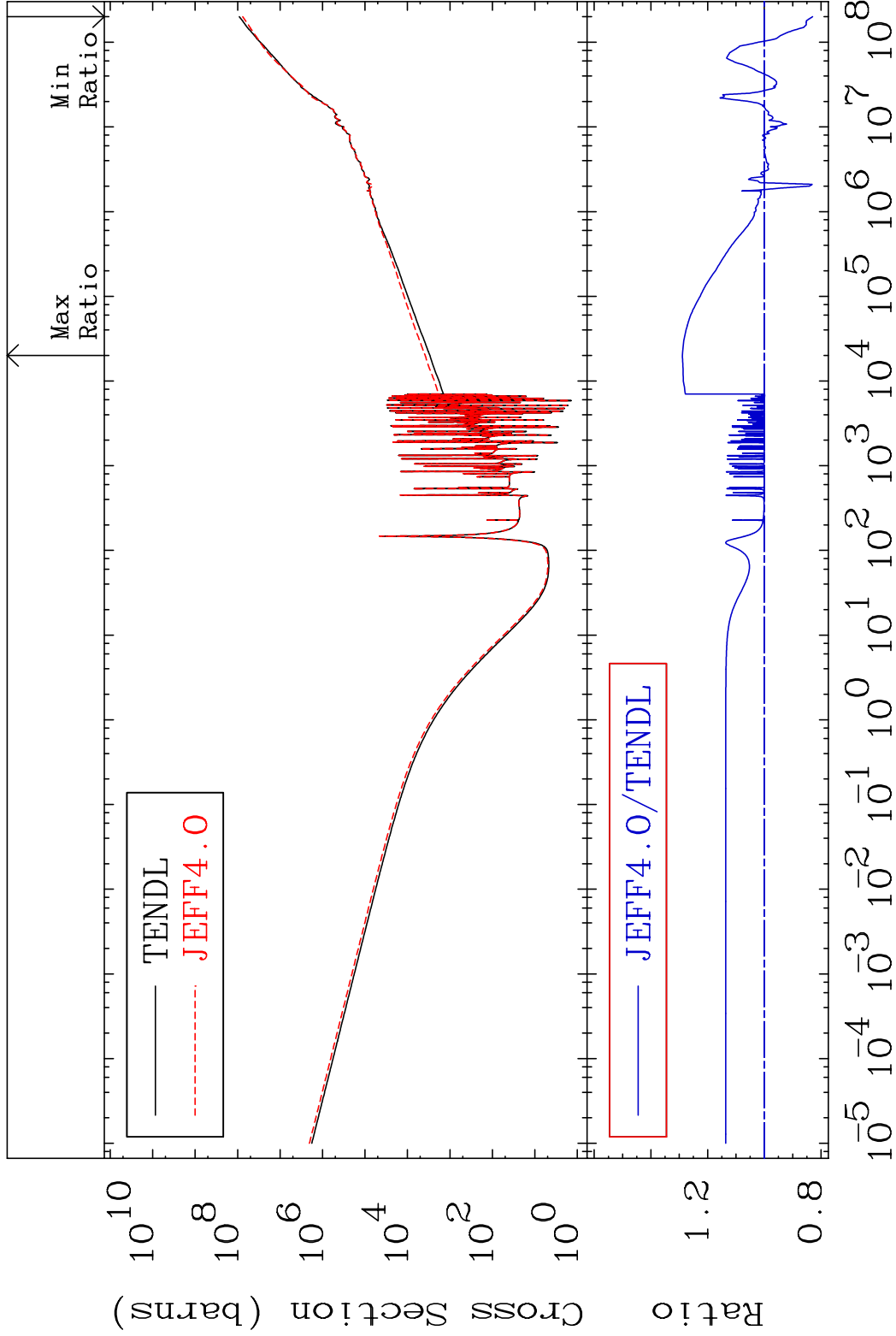


MAT 6649      He-4 Production      66-Dy-164  
Cross Section      -68.47 To 224.6 %

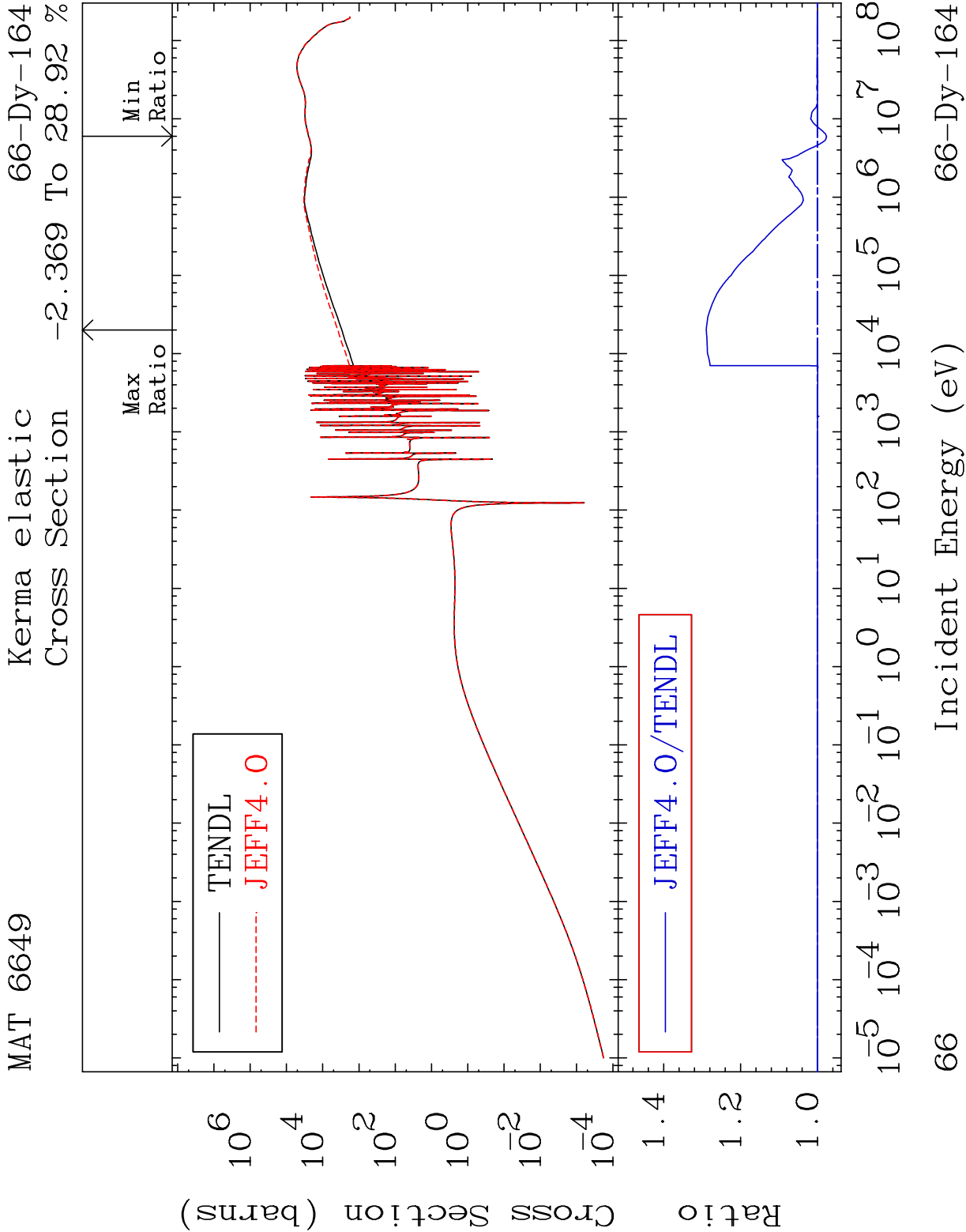


64      Incident Energy (eV)      66-Dy-164

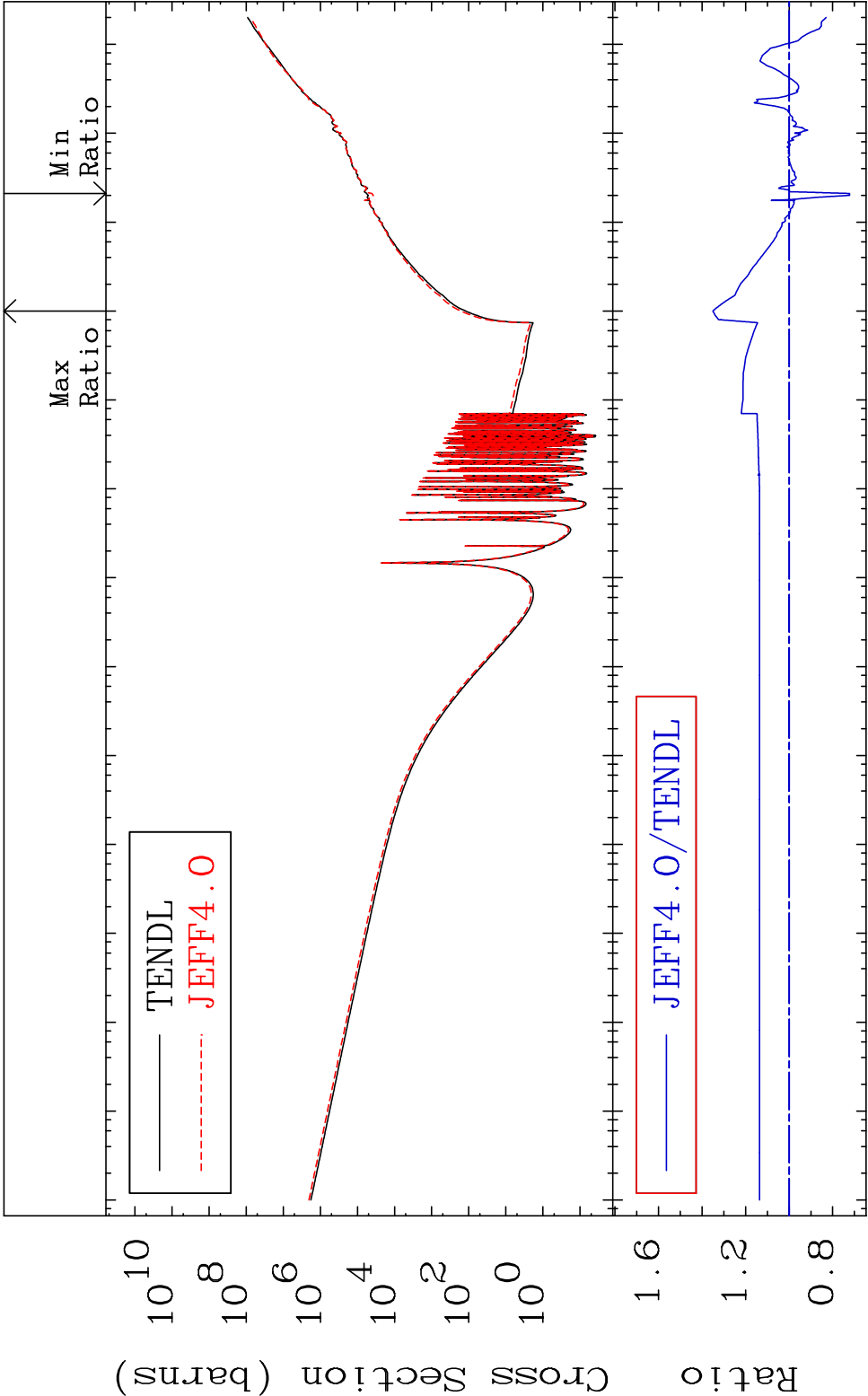
MAT 6649      Kerma total (eV-barns)      66-Dy-164  
Cross Section      -17.02 To 28.91 %

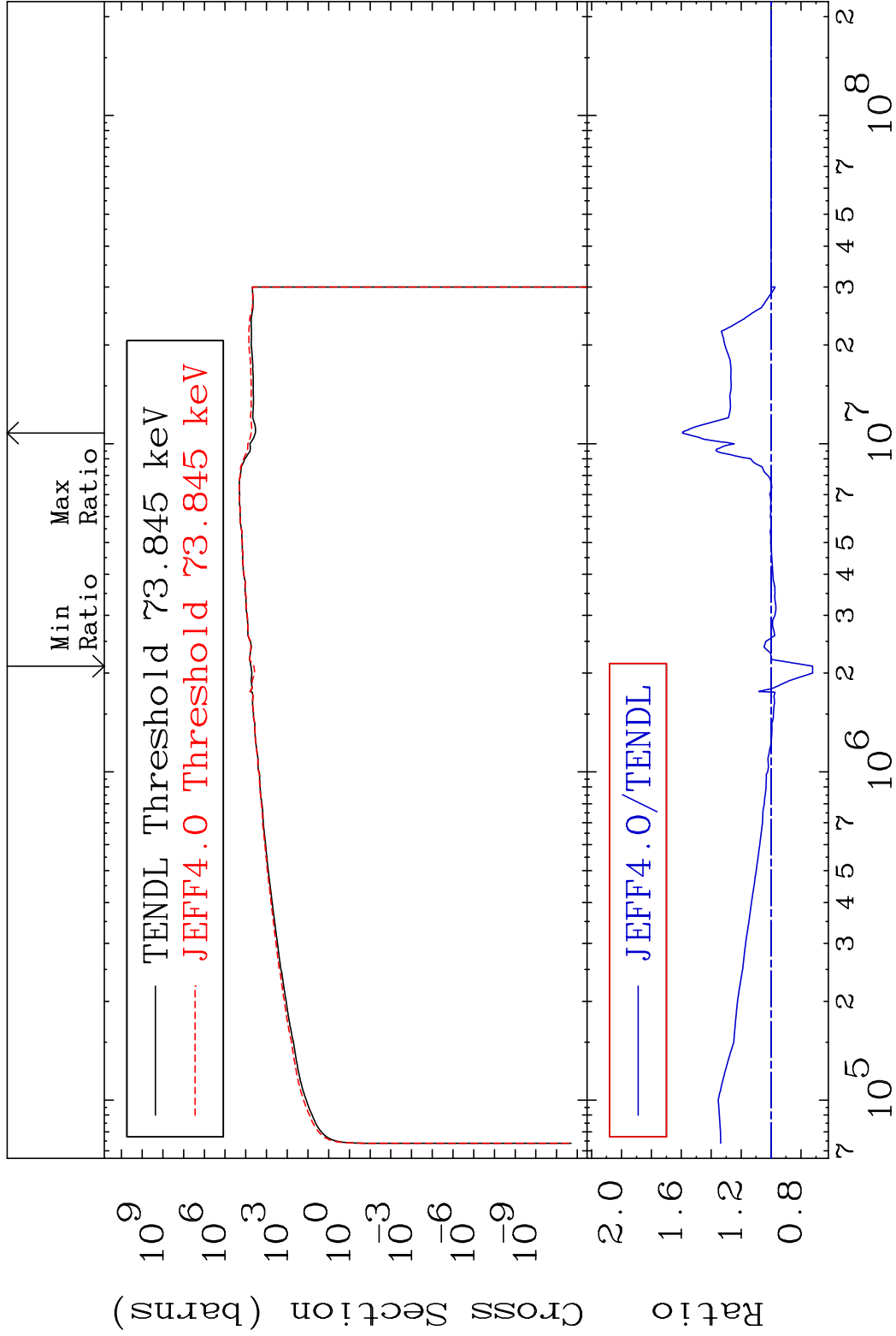


65      Incident Energy (eV)      66-Dy-164

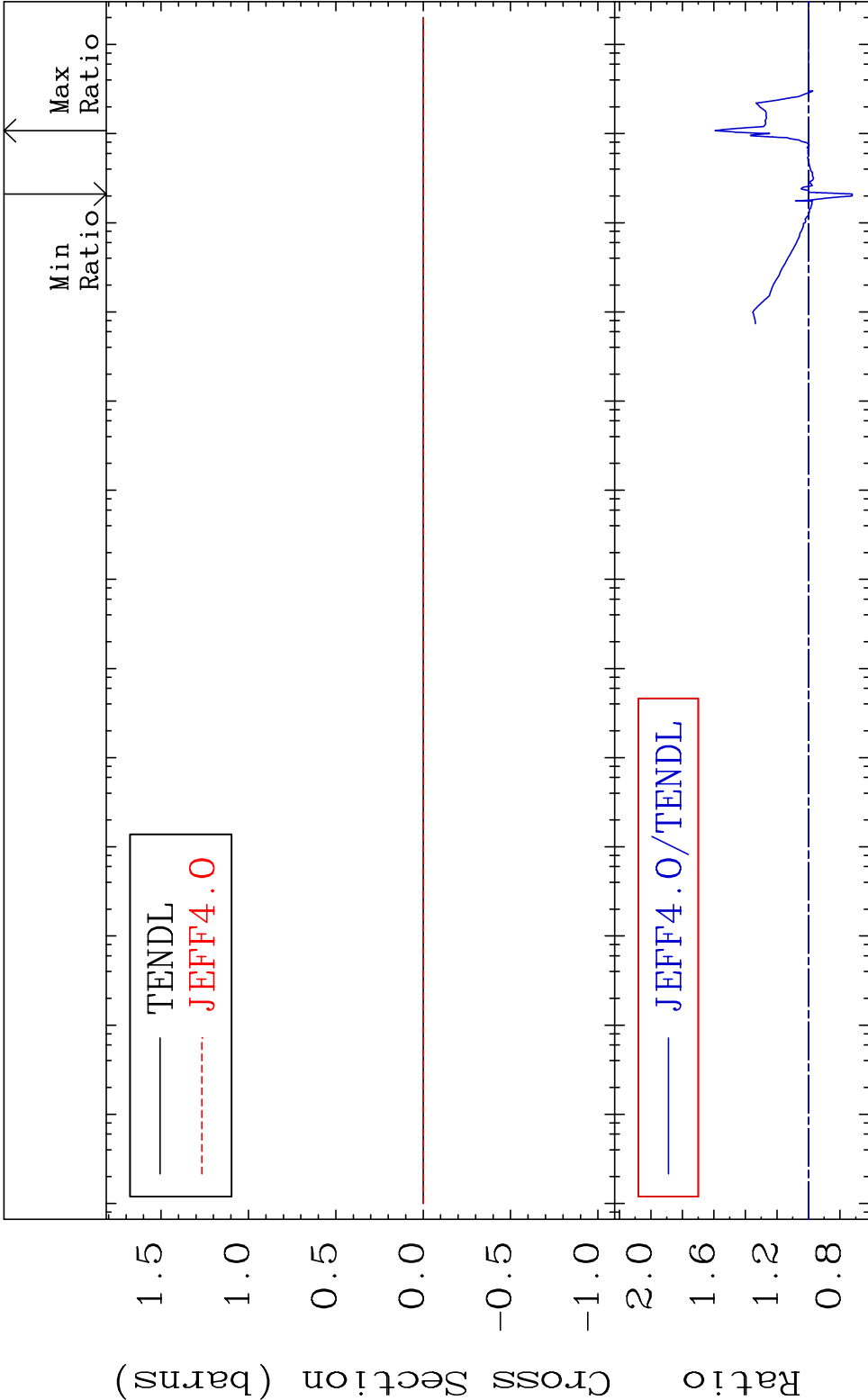


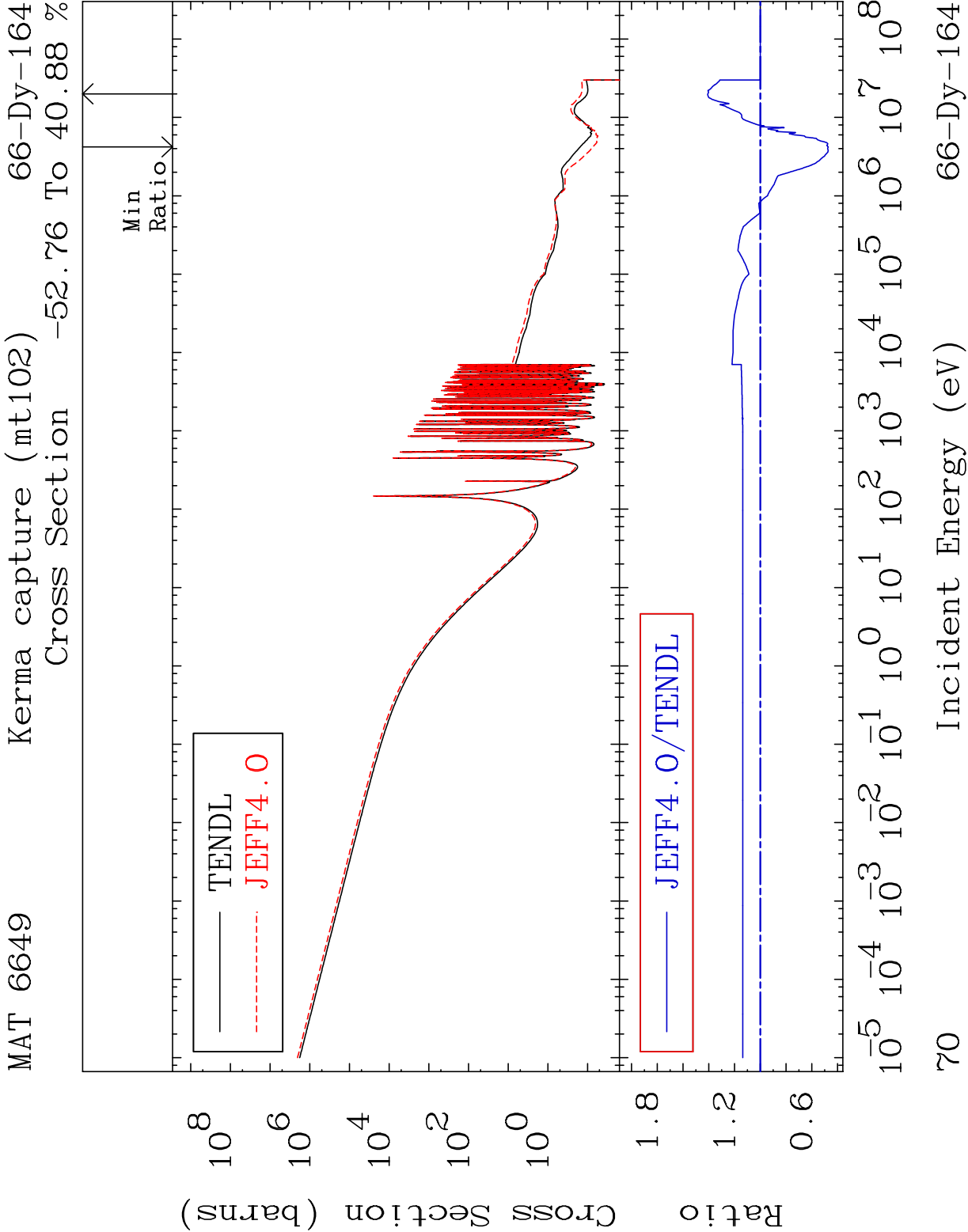
MAT 6649      Kerma non-elastic (all but mt2)      66-Dy-164  
 Cross Section      -27.74 To 35.07 %



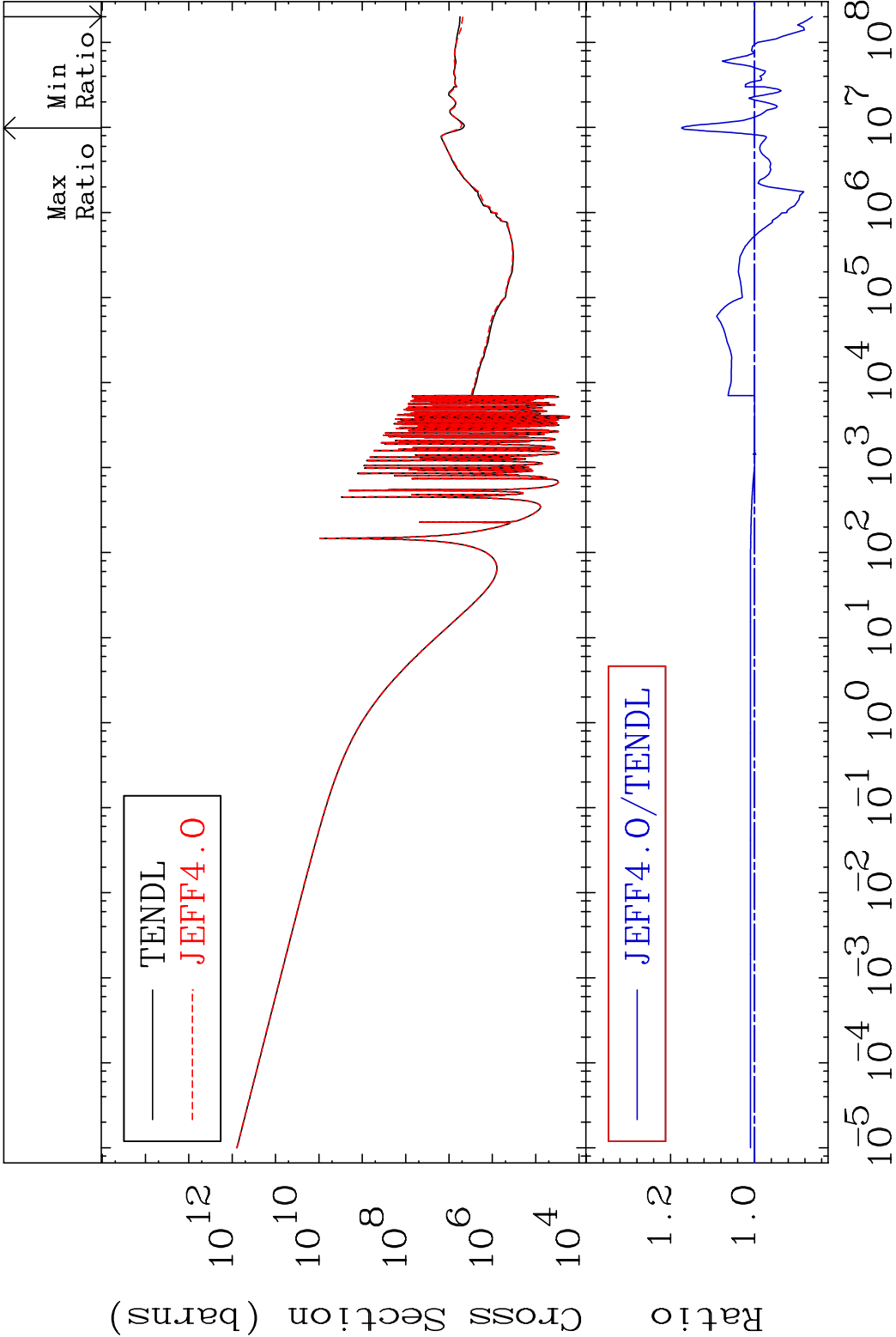


MAT 6649Kerma fission (mt18 or mt19-20-21-38)66-Dy-164  
Cross Section -27.74 To 59.31 %



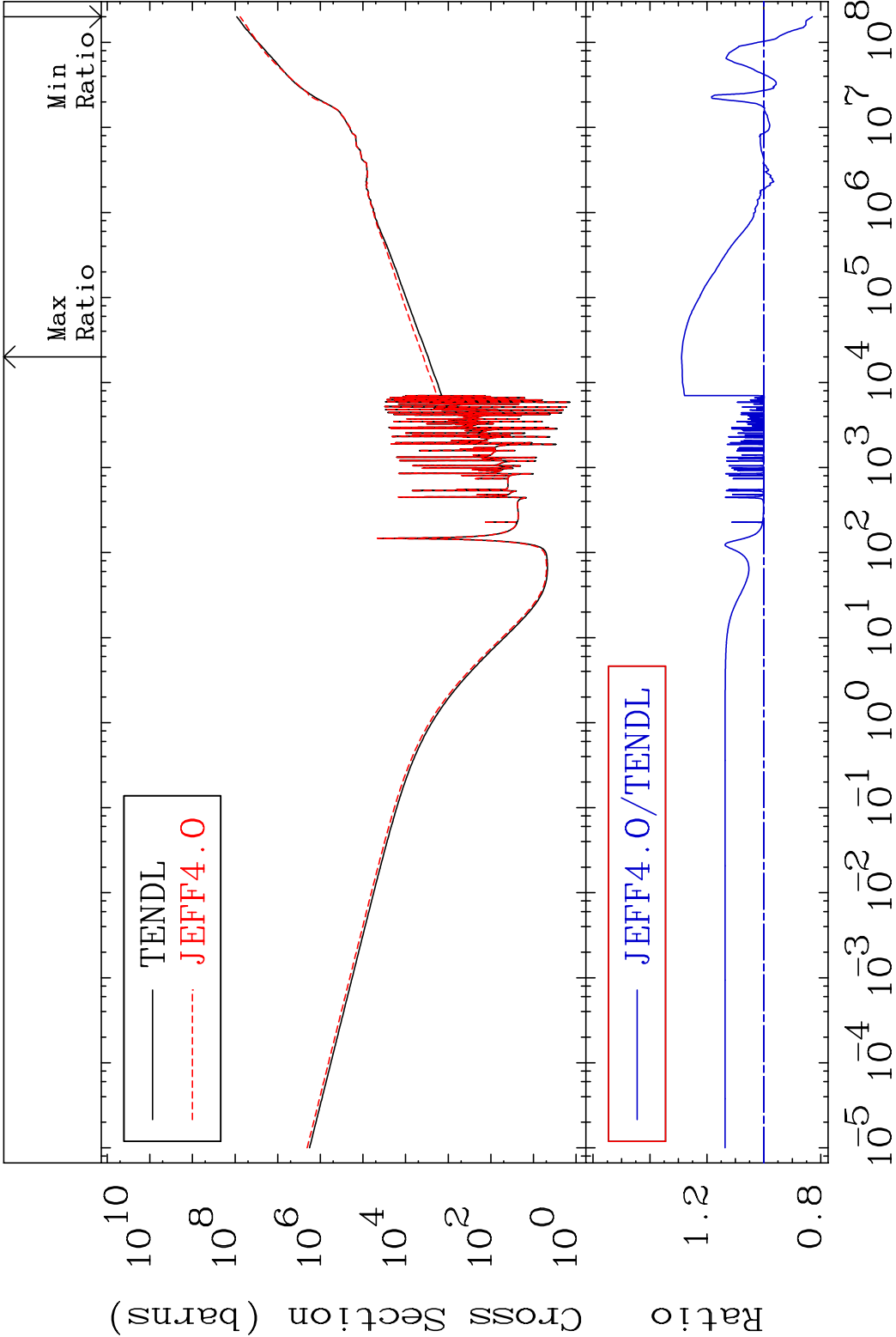


MAT 6649      Total photon (eV-barns)      66-Dy-164  
Cross Section      -13.73 To 17.37 %

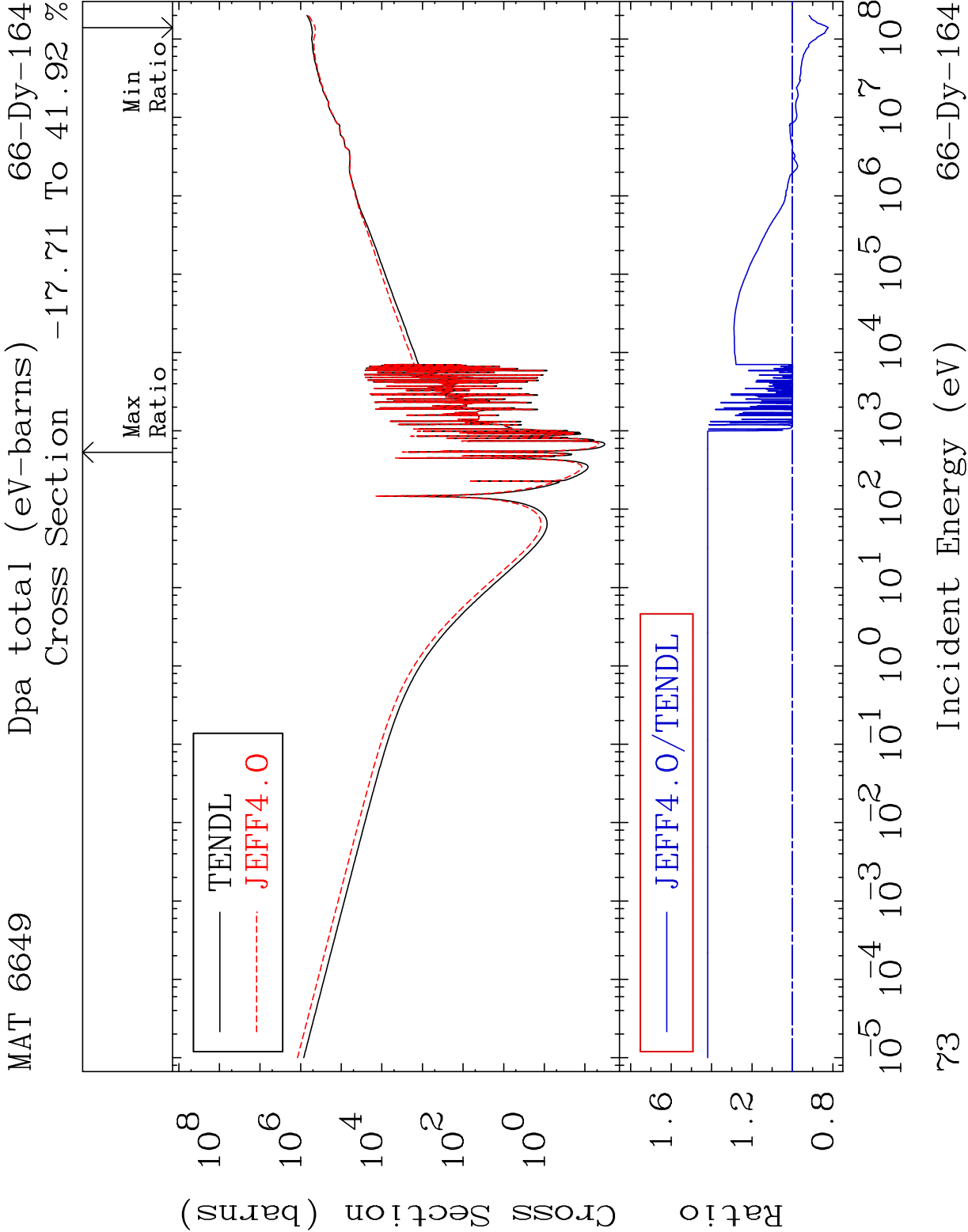


71      Incident Energy (eV)      66-Dy-164

MAT 6649 Total kinematic kerma (high limit) 66-Dy-164  
Cross Section -17.02 To 28.91 %



72 Incident Energy (eV) 66-Dy-164



MAT 6649

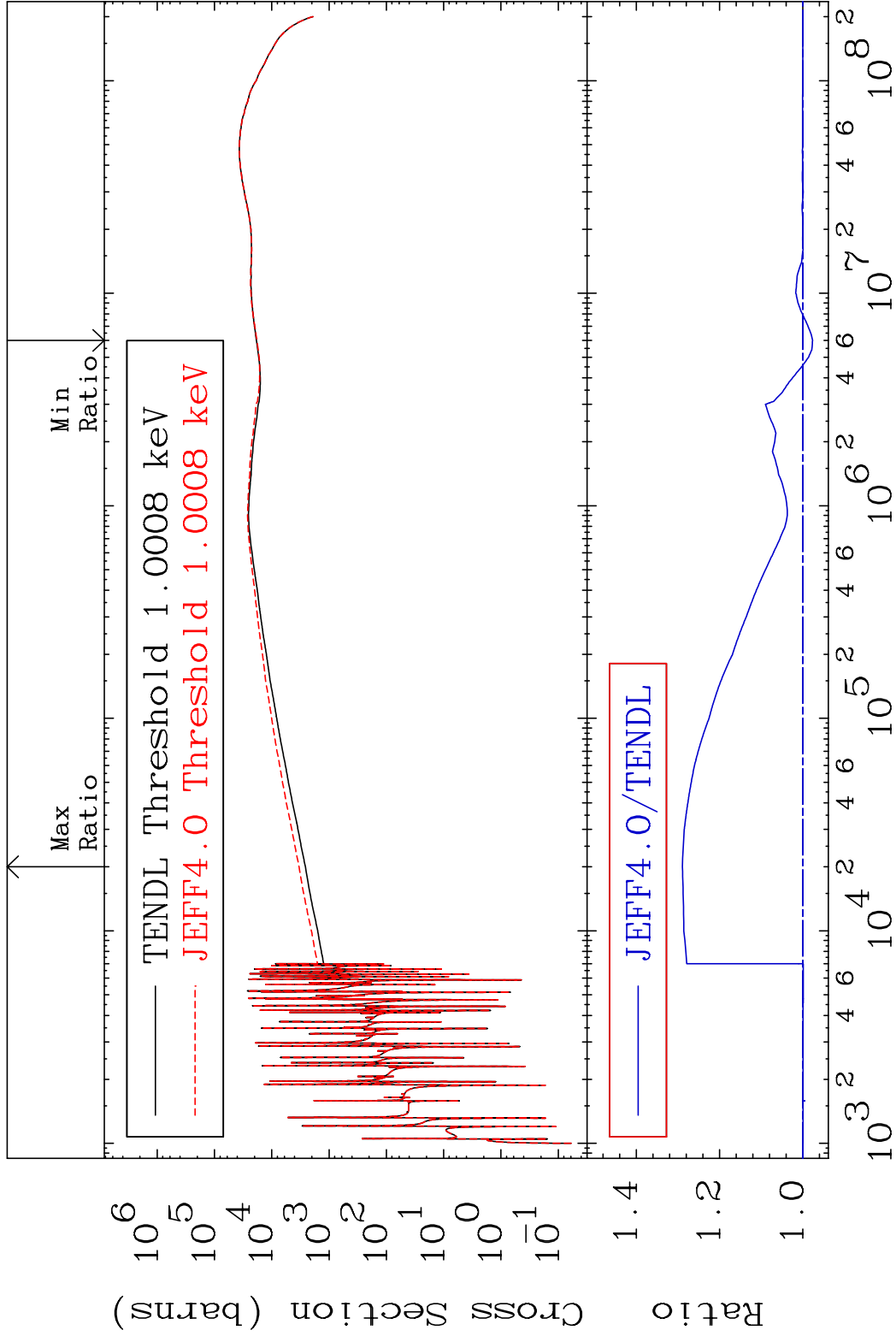
Dpa elastic (mt2)

Cross Section

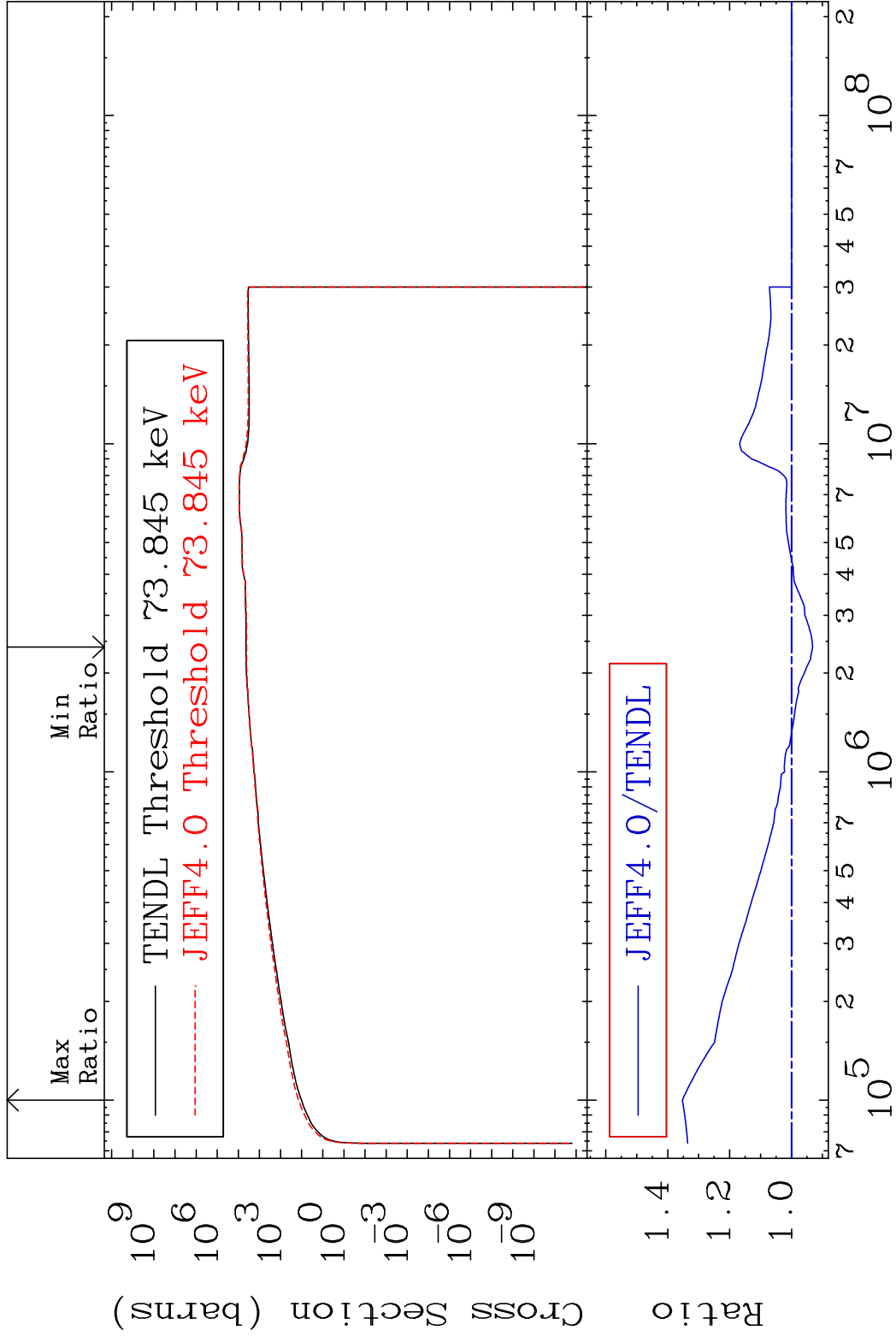
66-Dy-164

-2.342

To 28.93 %

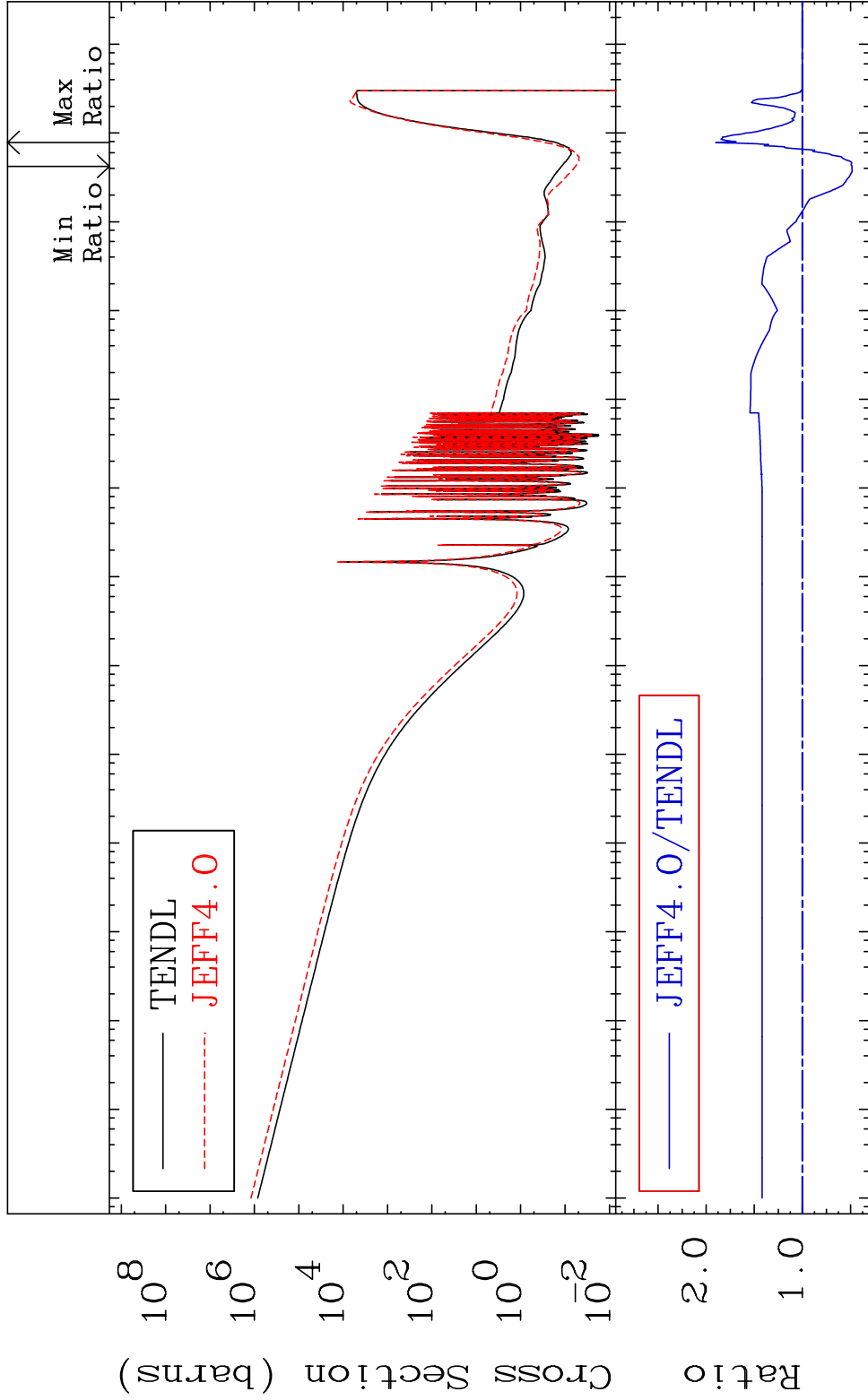


MAT 6649      Dpa inelastic (mt51-91)      66-Dy-164  
Cross Section      -6.795 To 35.28 %



75      Incident Energy (eV)      66-Dy-164

MAT 6649    Dpa disappearance (mt102 -120)    66-Dy-164  
Cross Section    -51.81 To 90.12 %



$10^{-5}$   $10^{-4}$   $10^{-3}$   $10^{-2}$   $10^{-1}$   $10^0$   $10^1$   $10^2$   $10^3$   $10^4$   $10^5$   $10^6$   $10^7$   $10^8$   
76                      Incident Energy (eV)                      66-Dy-164

