

Program Complot  
(Version 2021-1)

by

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(Present Contact Information)

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U.S.A.

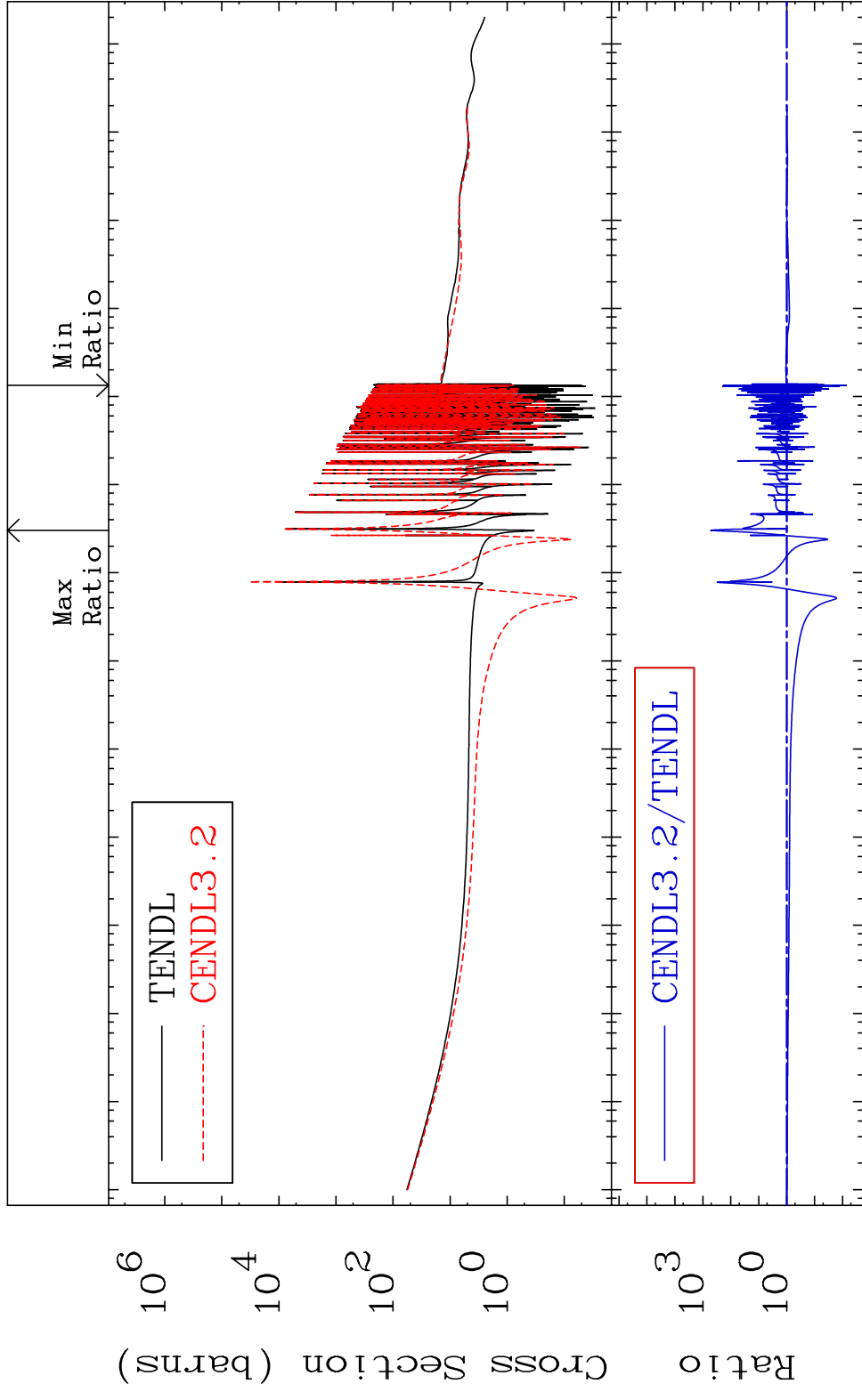
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 6049

Total Cross Section  
60-Nd-150  
-99.27 To 9999. %



1

Incident Energy (eV)

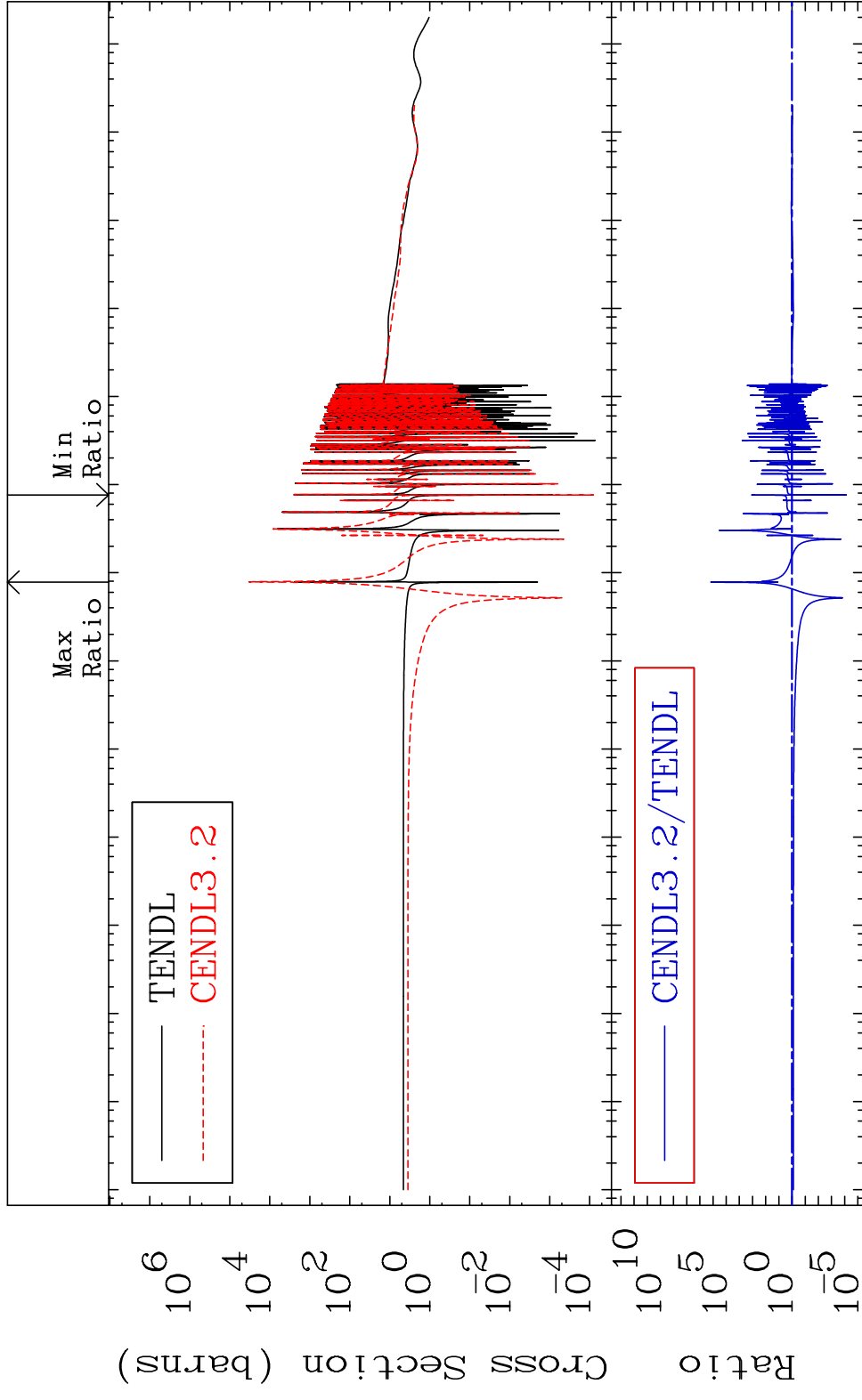
60-Nd-150

MAT 6049

Elastic

60-Nd-150

Cross Section -99.99 To 9999. %

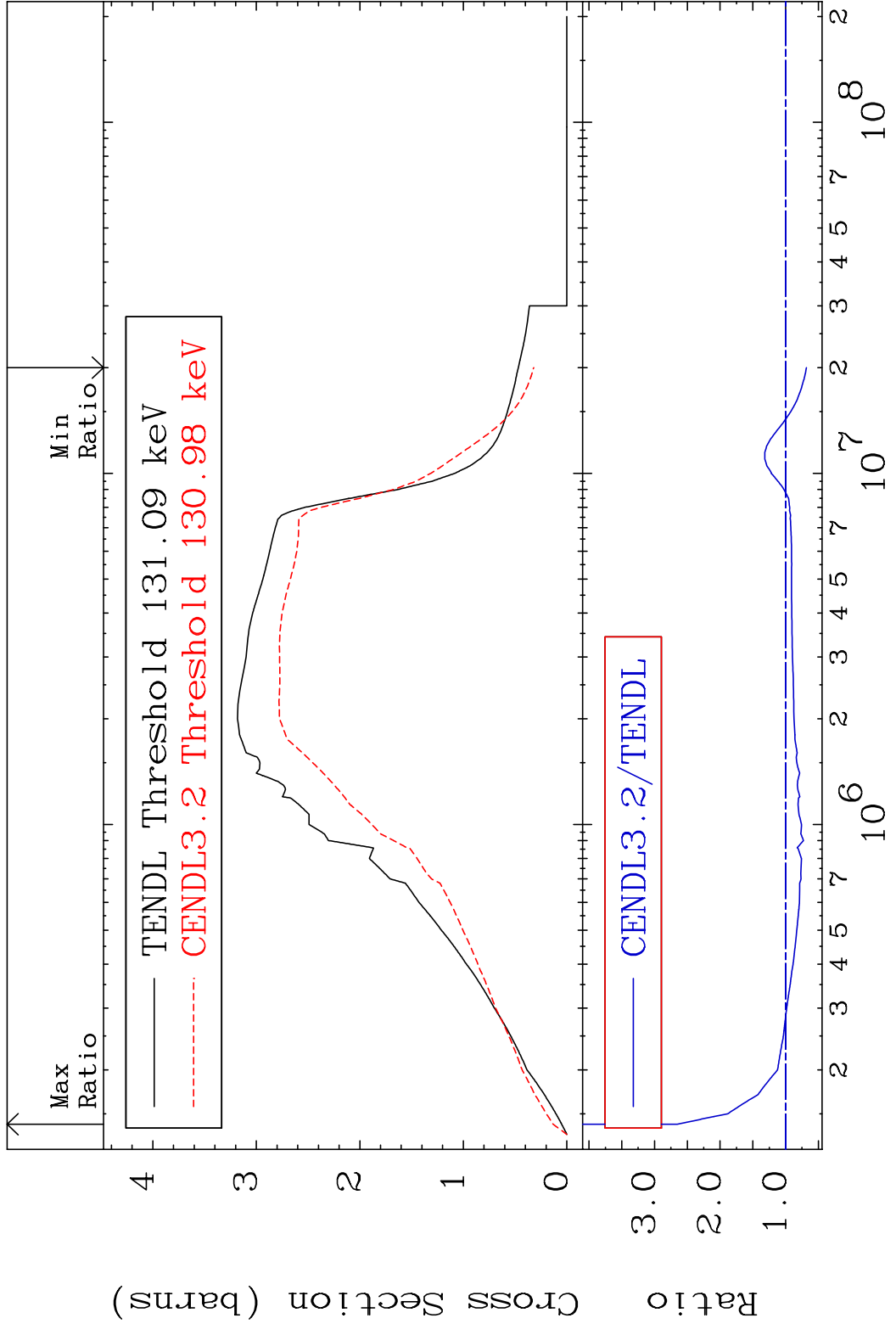


2

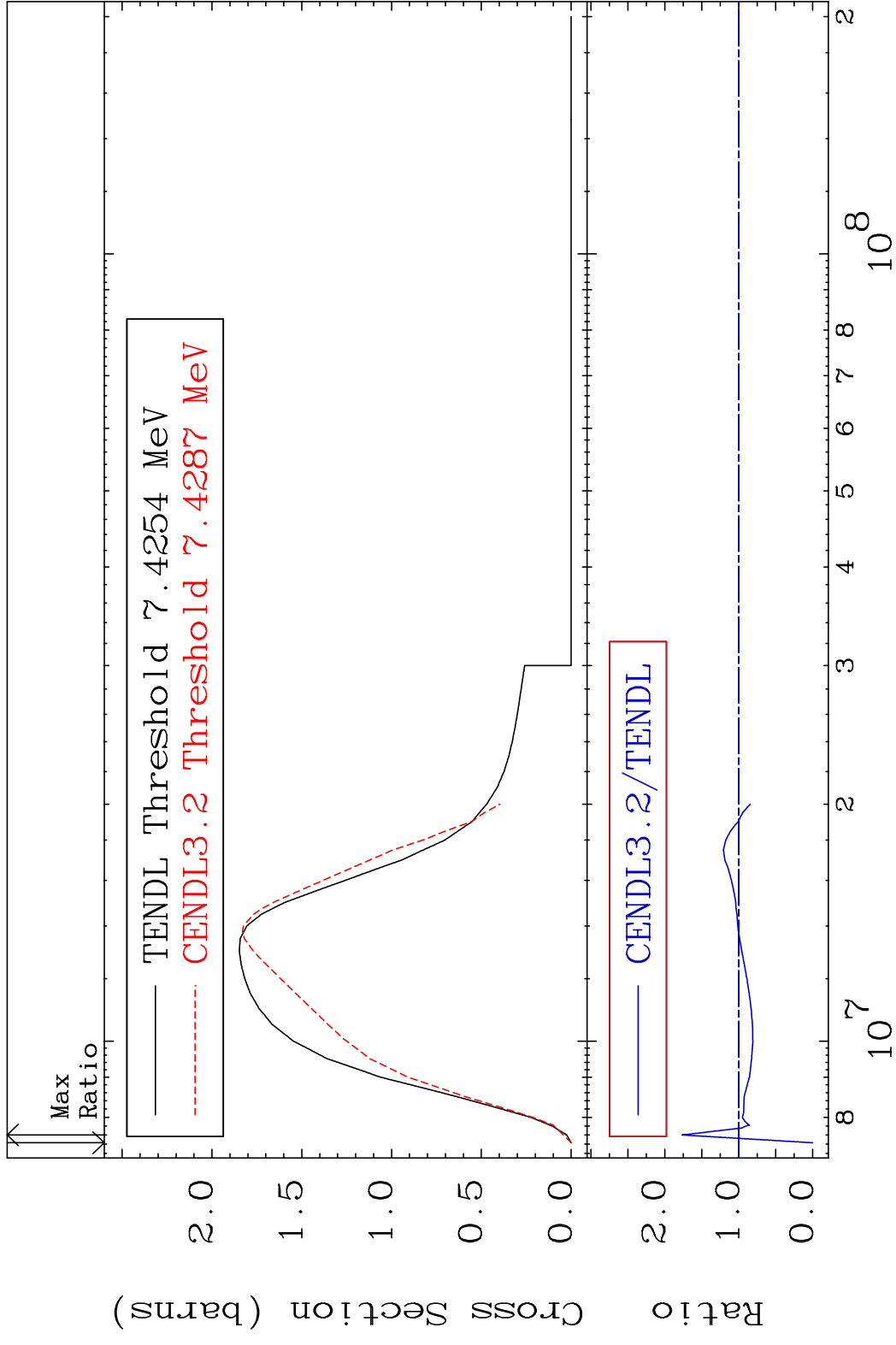
Incident Energy (eV)

60-Nd-150

MAT 6049 Inelastic 60-Nd-150  
 Cross Section -31.72 To 165.5 %

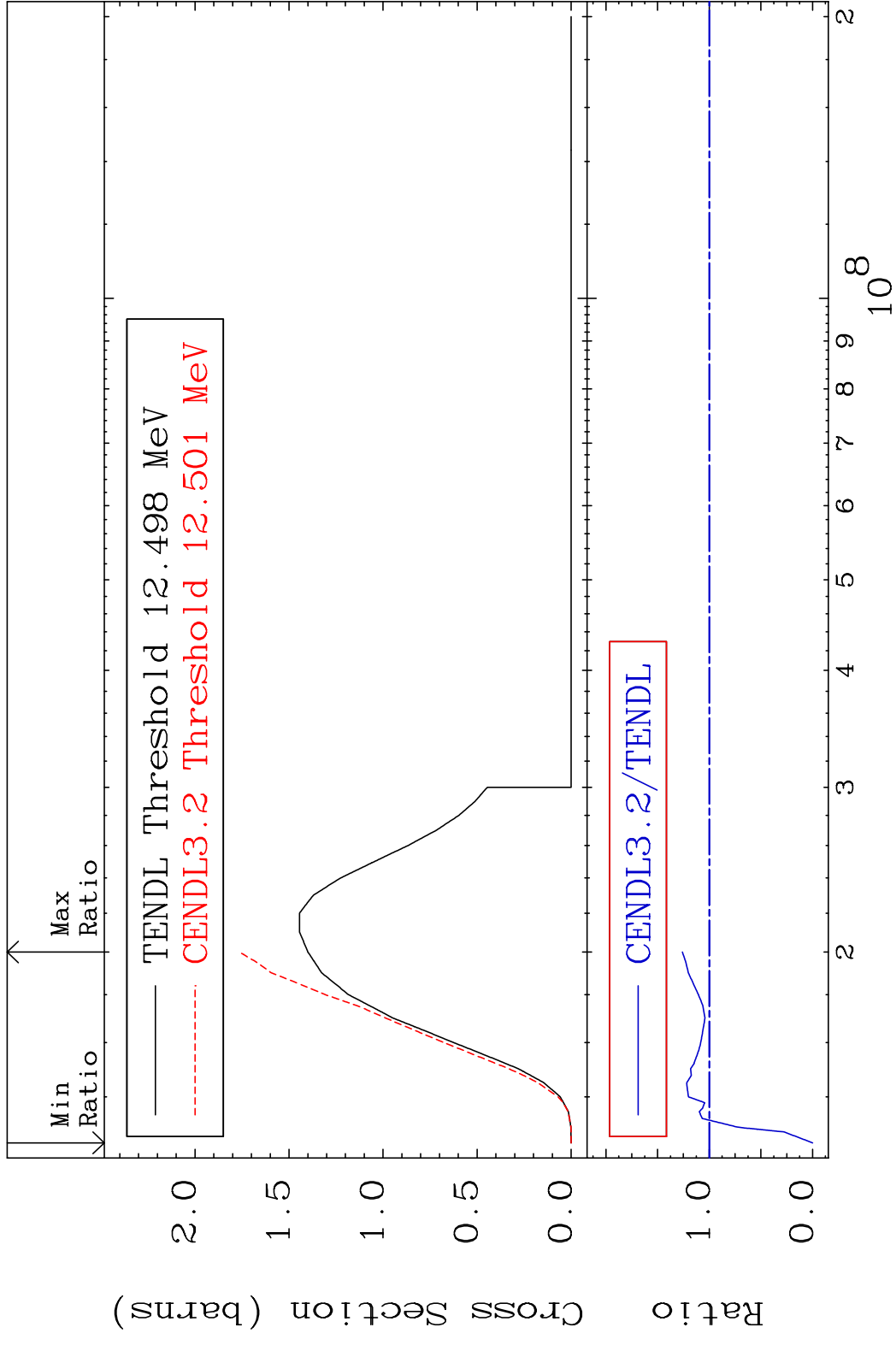


MAT 6049 (n,2n) 60-Nd-150  
 Cross Section -100.0 To 76.28 %

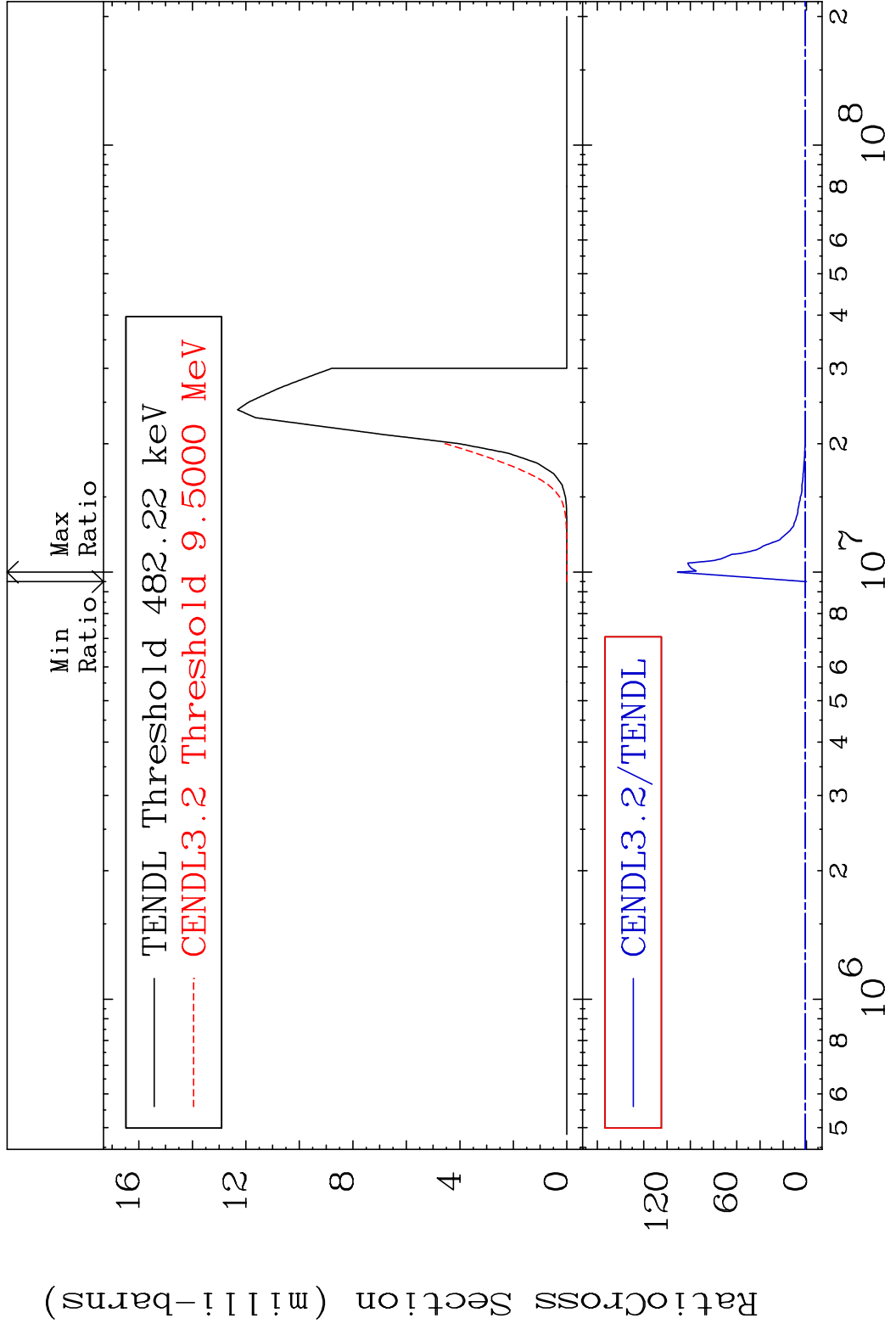


4 Incident Energy (eV) 60-Nd-150

MAT 6049 (n,3n) 60-Nd-150  
 Cross Section -100.0 To 26.01 %



MAT 6049 (n, n')  $\alpha$  60-Nd-150  
 Cross Section -100.0 To 9999. %



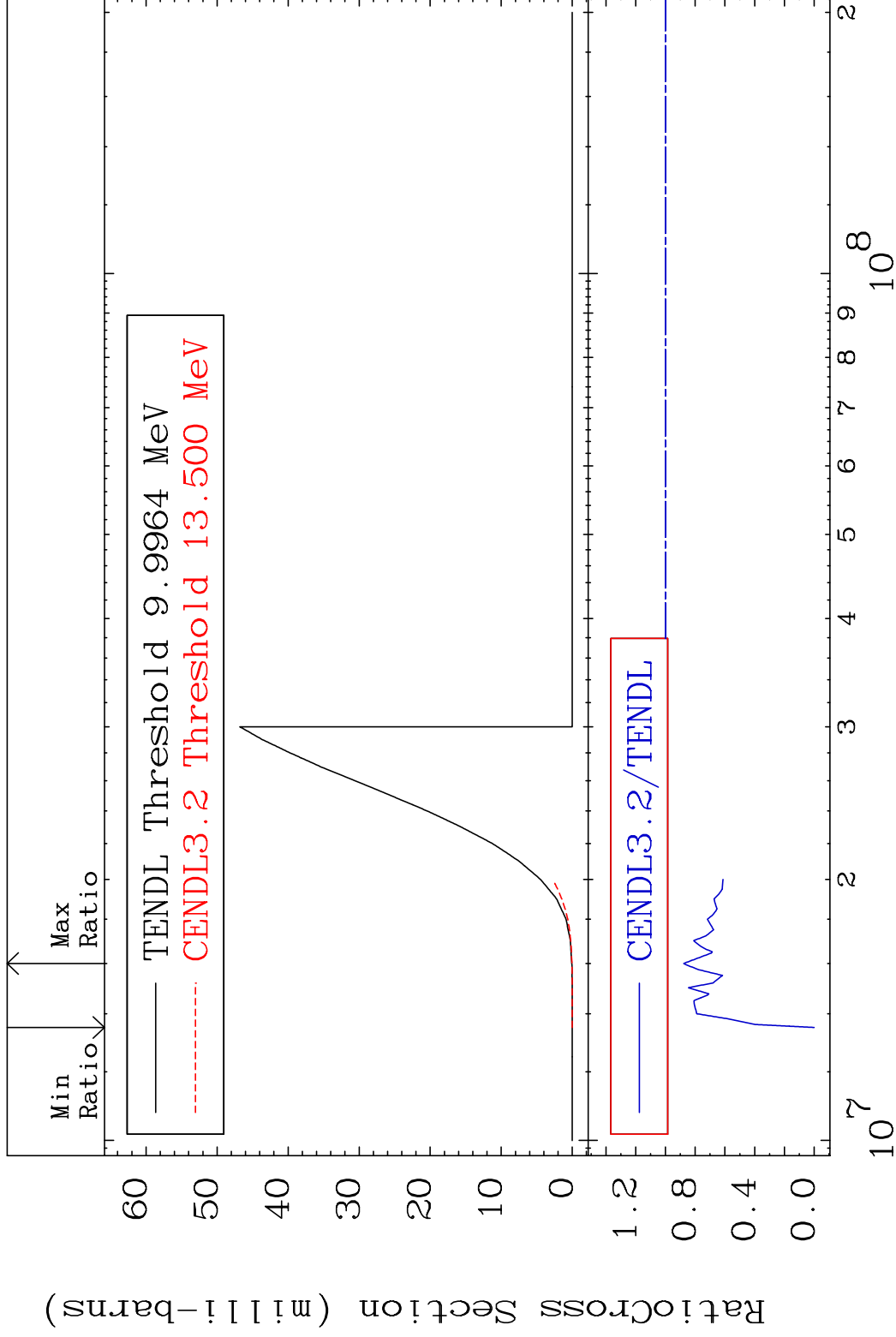
6 120 60 0 5 6 8 10<sup>6</sup> 2 3 4 5 6 7 8 10<sup>8</sup> 2

MAT 6049

(n, n') p

60-Nd-150

Cross Section -100.0 To -12.23%

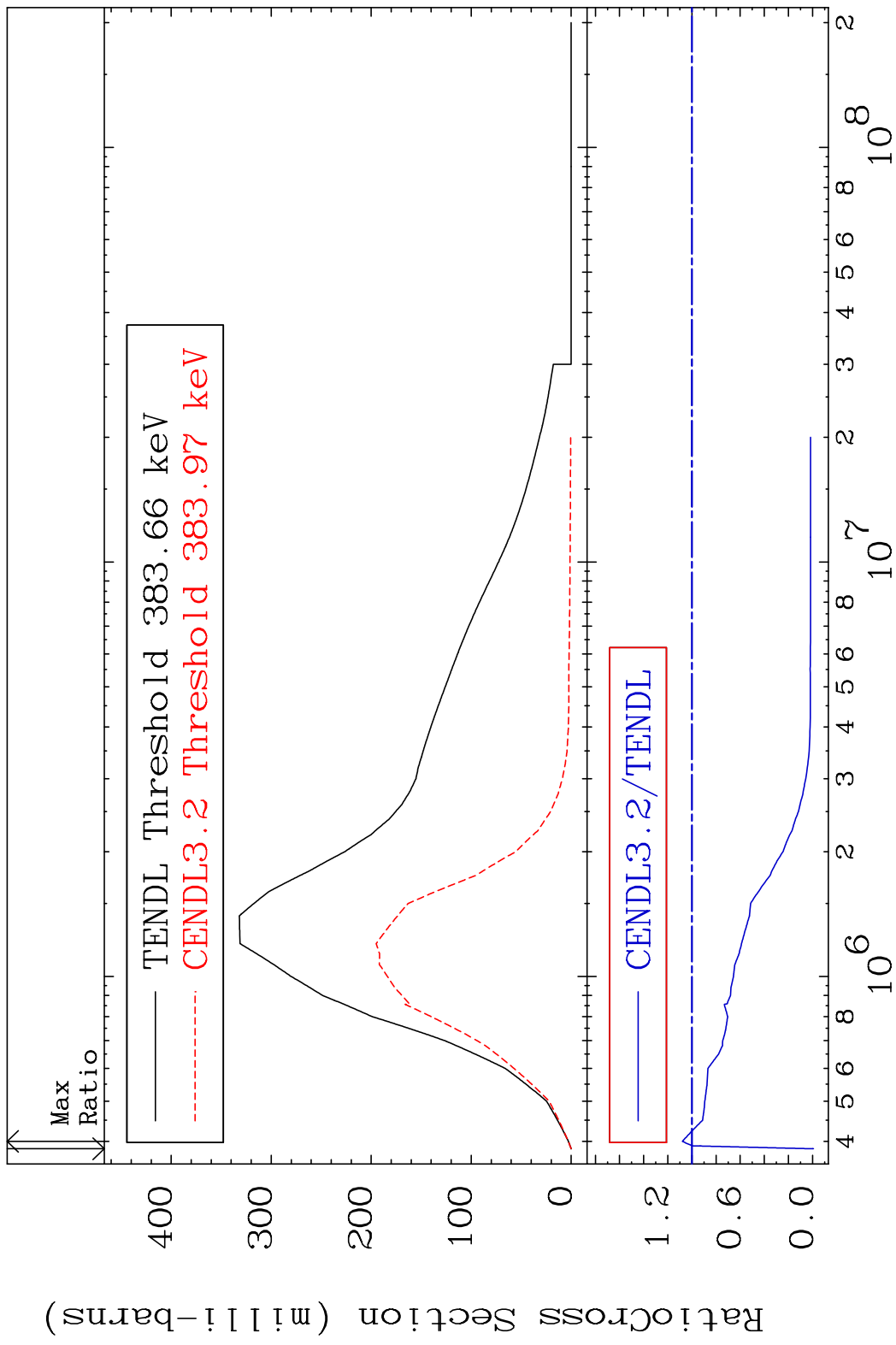


60-Nd-150

7

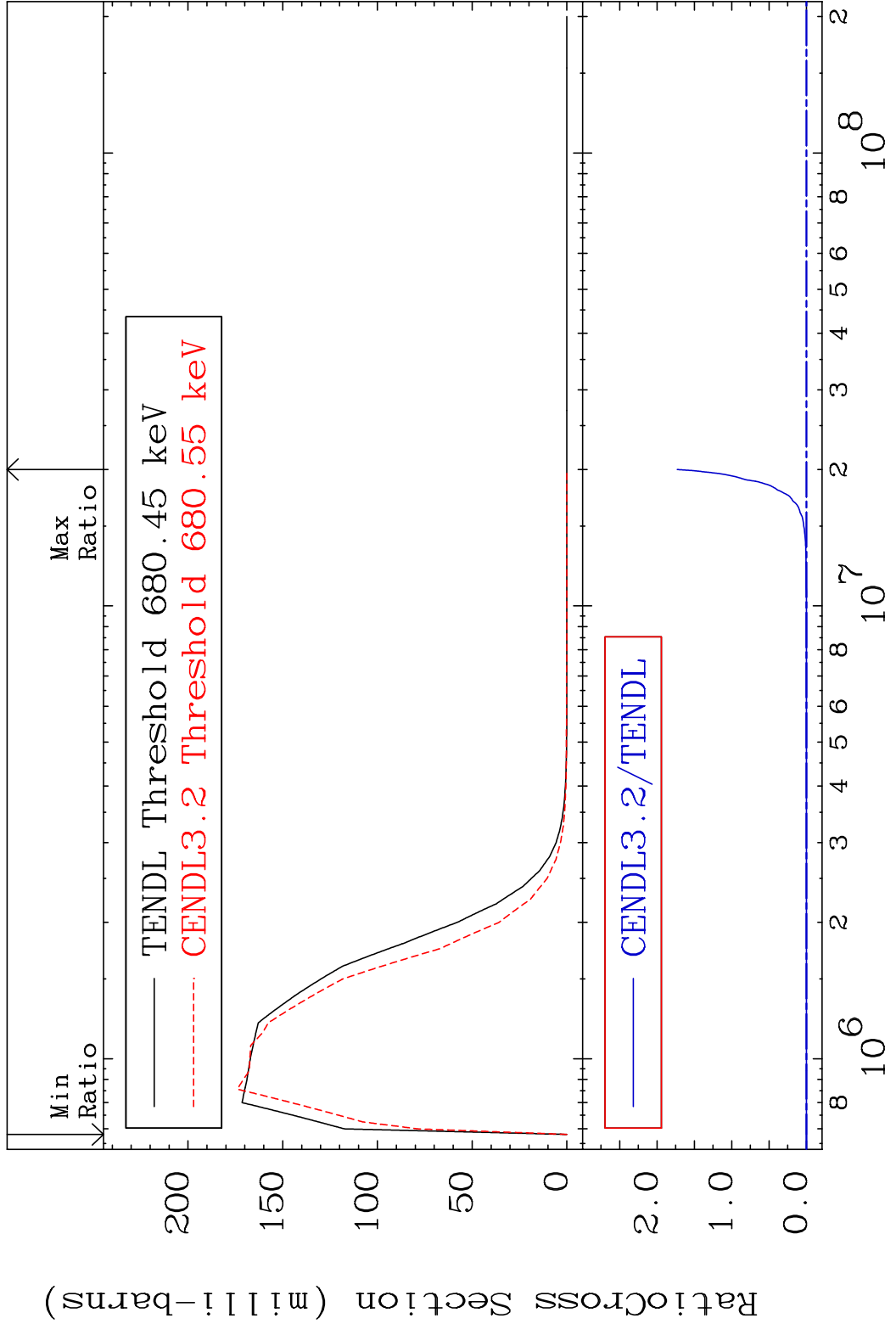


MAT 6049 MT= 52 (n, n') Level 60-Nd-150  
 Cross Section -100.0 To 7.942 %



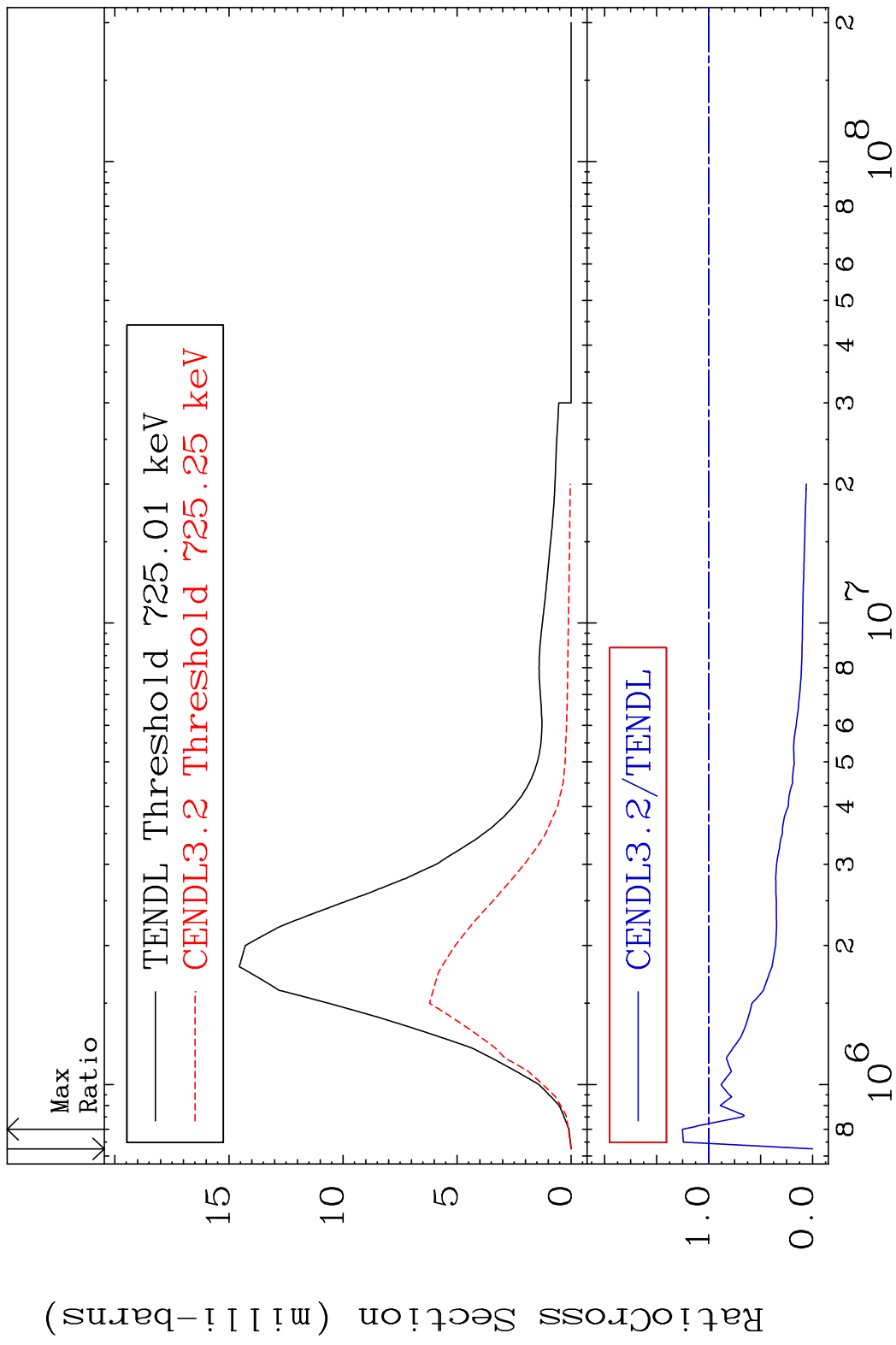
9 Incident Energy (eV) 60-Nd-150

MAT 6049 MT= 53 (n, n') Level 60-Nd-150  
 Cross Section -100.0 To 9999. %



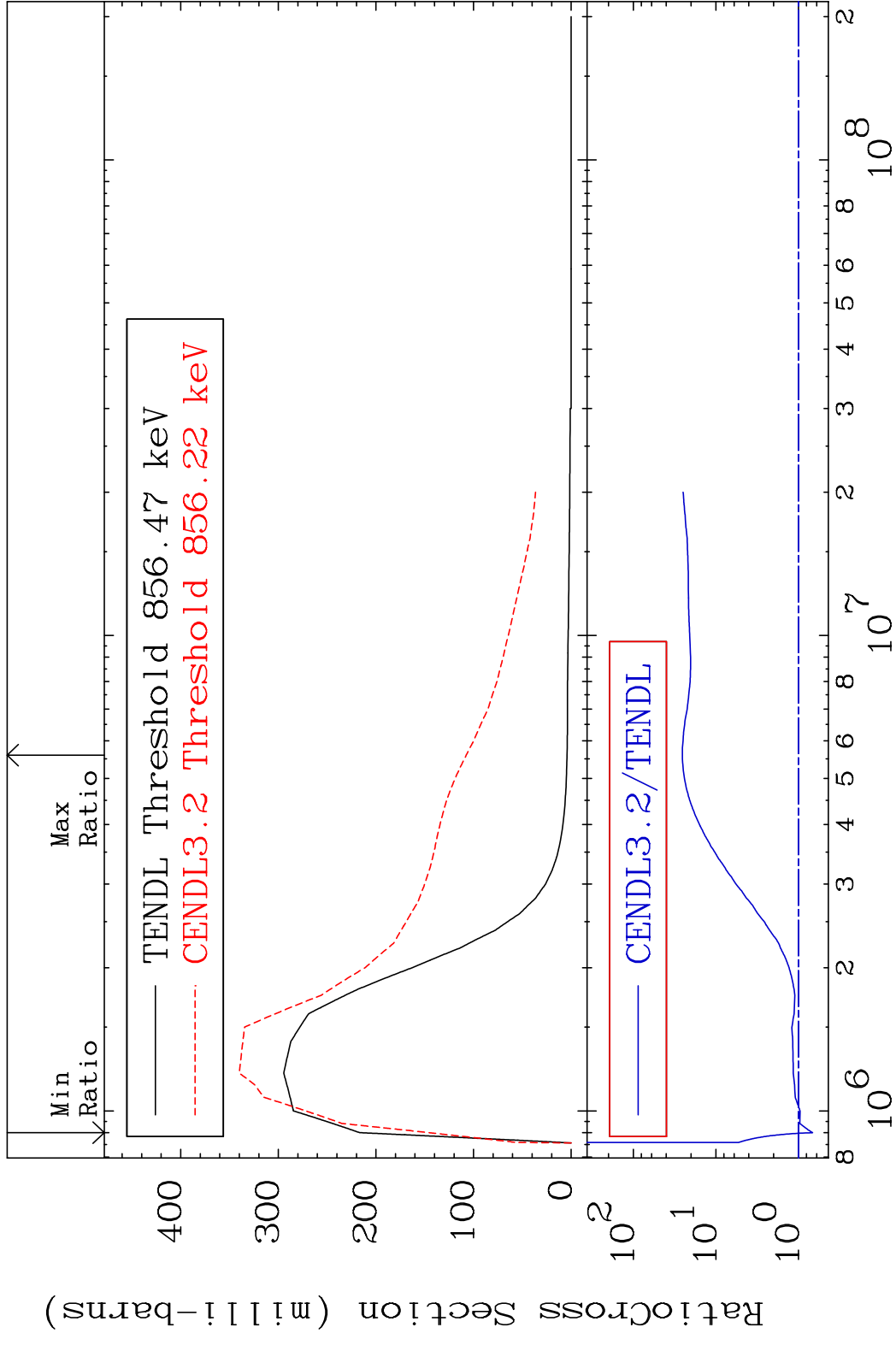
10 2 3 4 5 6 8 10<sup>7</sup> 10<sup>8</sup> 2

MAT 6049 MT= 54 (n,n') Level 60-Nd-150  
 Cross Section -100.0 To 25.24 %



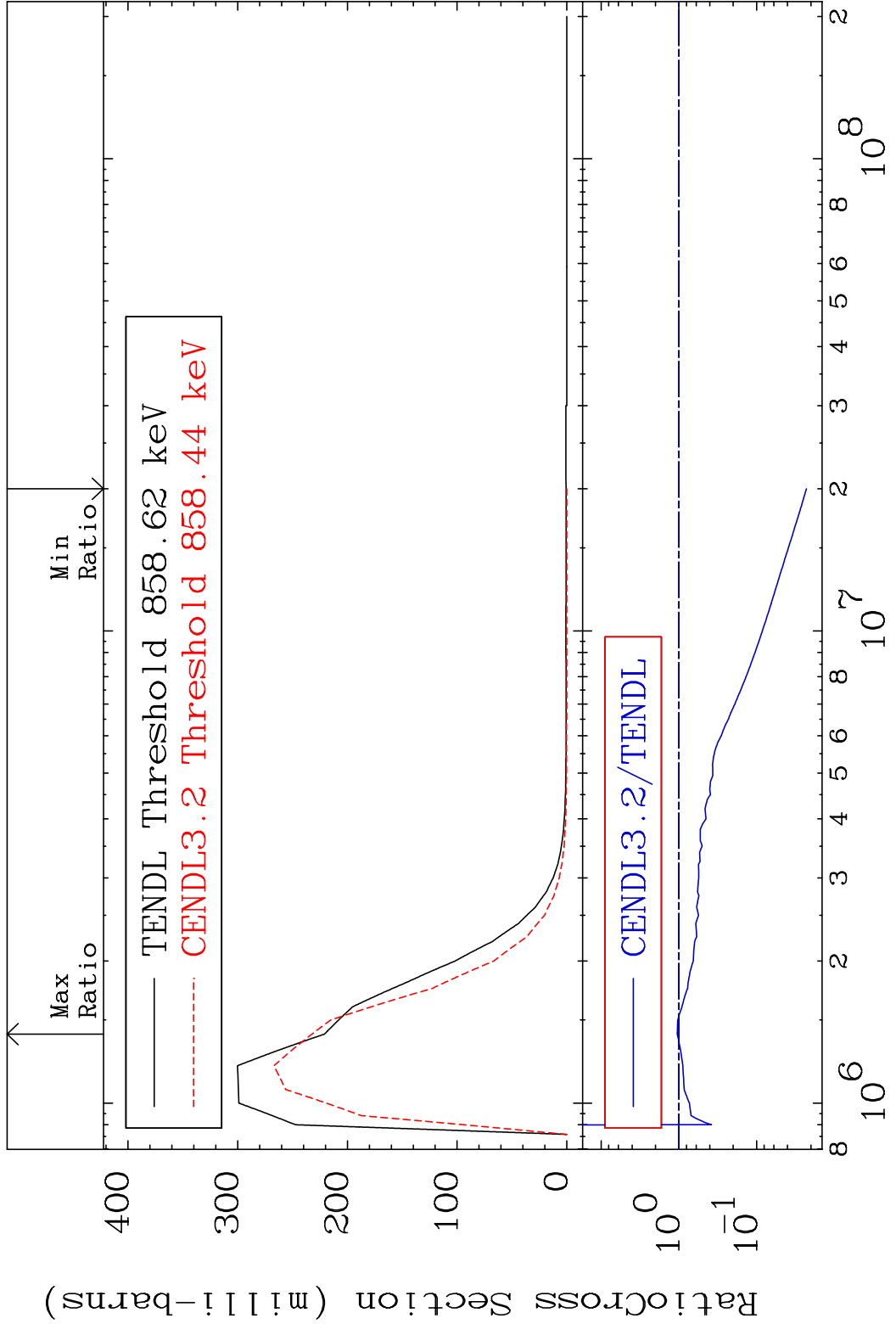
11 Incident Energy (eV) 60-Nd-150

MAT 6049 MT= 55 (n, n') Level 60-Nd-150  
 Cross Section -32.54 To 2450. %



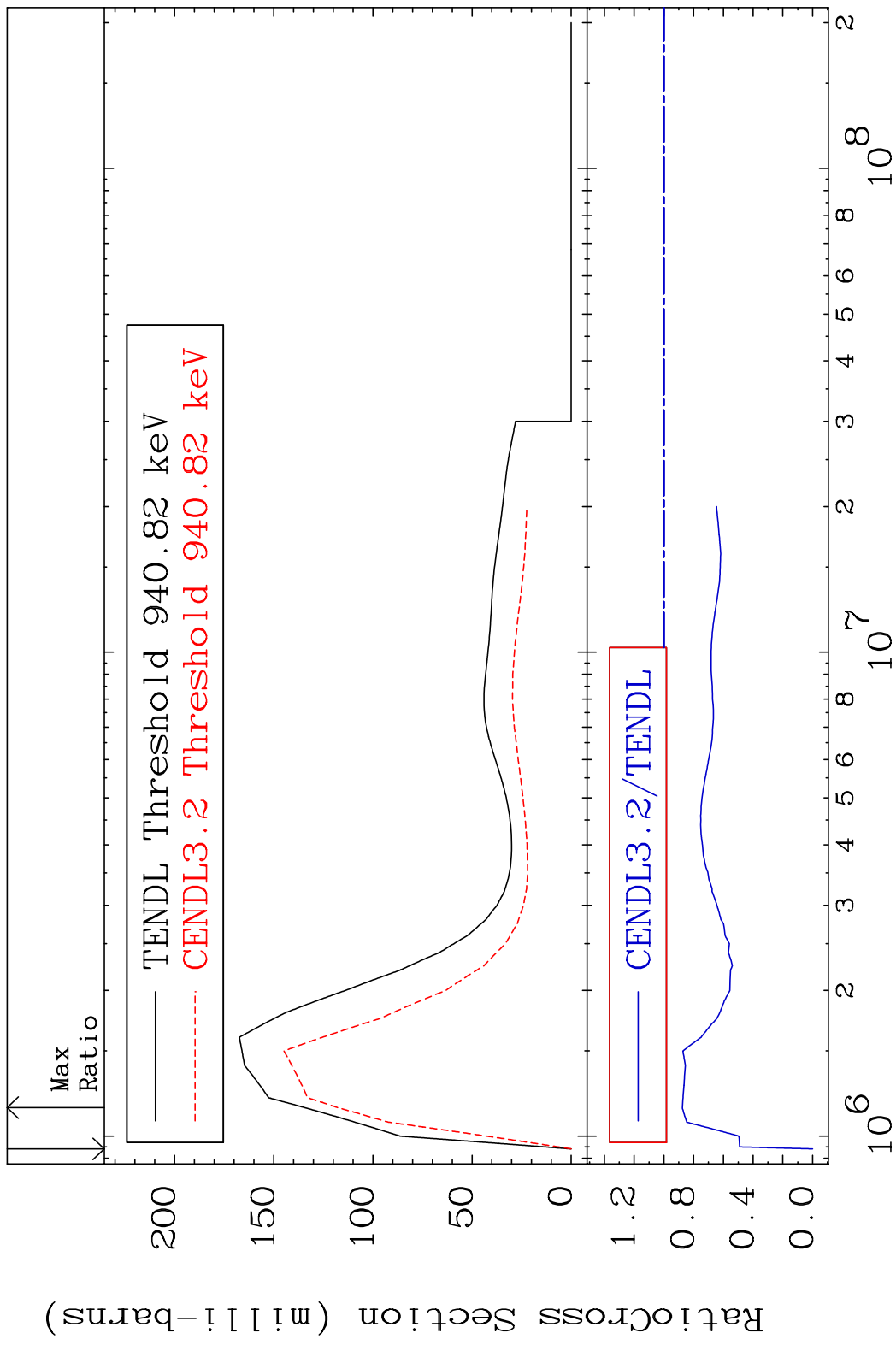
12 Incident Energy (eV) 60-Nd-150

MAT 6049 MT= 56 (n, n') Level 60-Nd-150  
 Cross Section -97.71 To 5.193 %



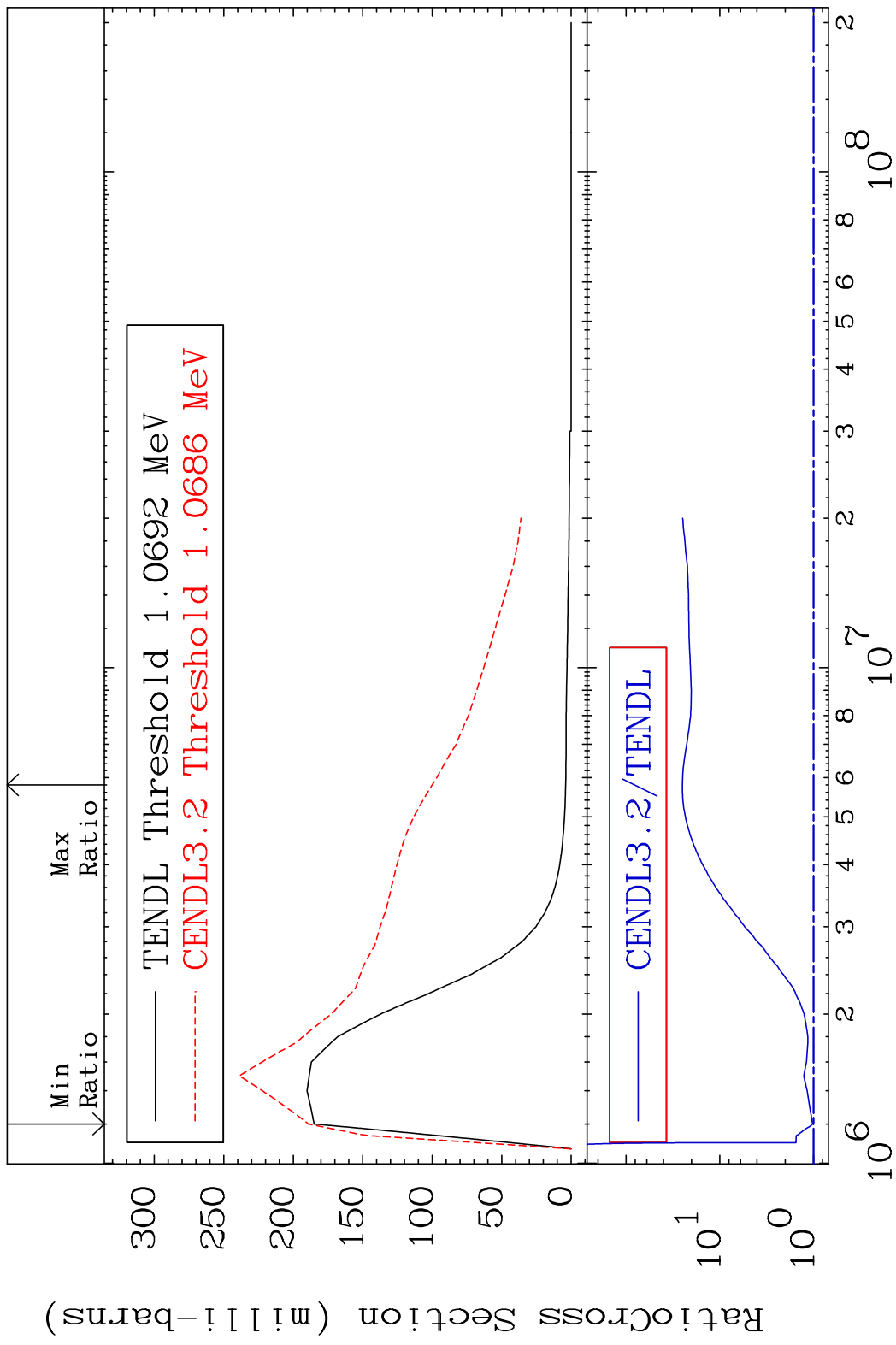
13 Incident Energy (eV) 60-Nd-150

MAT 6049 MT= 57 (n, n') Level 60-Nd-150  
 Cross Section -100.0 To -12.44%



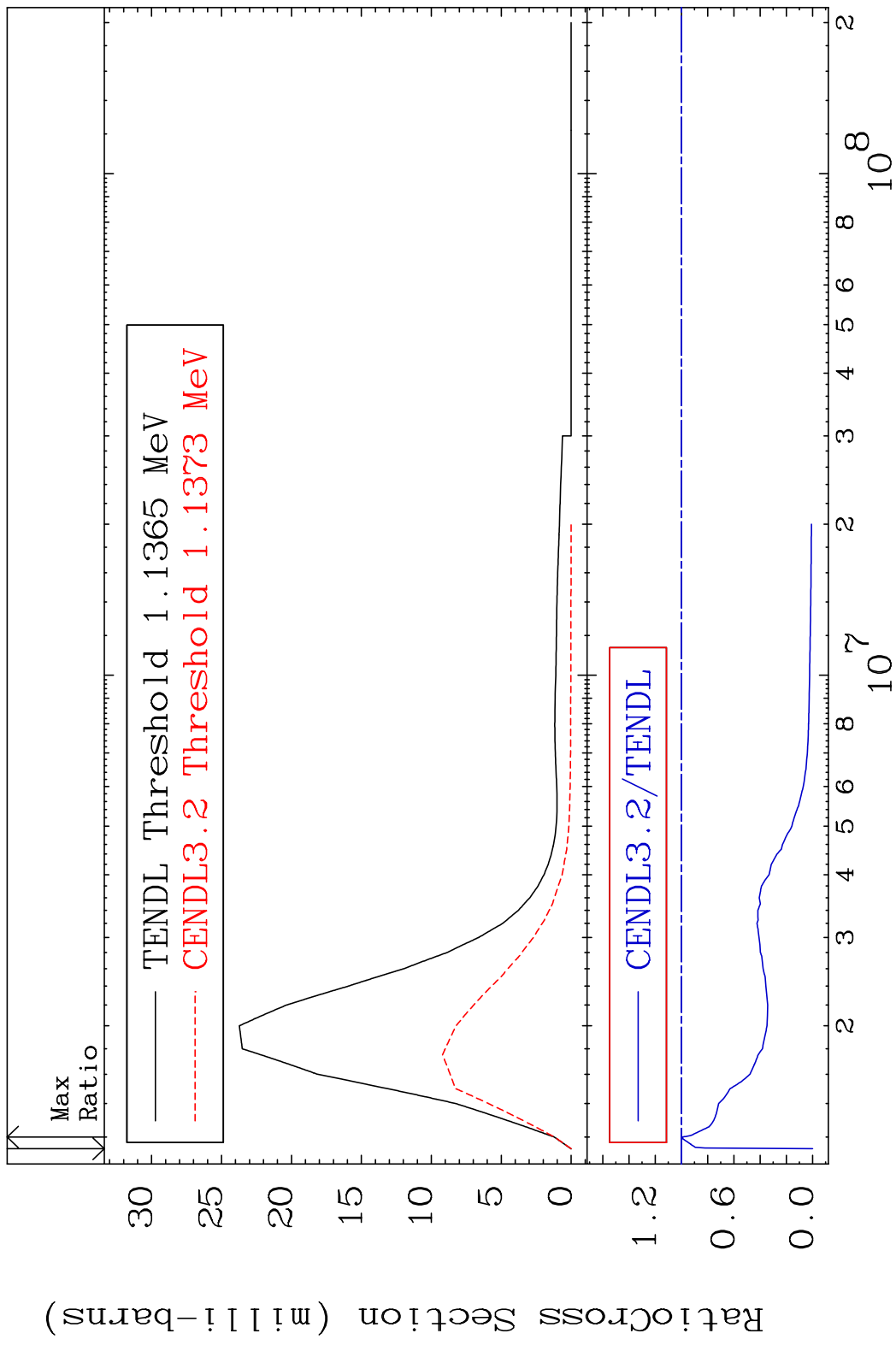
14 60-Nd-150

MAT 6049 MT= 58 (n, n') Level 60-Nd-150  
 Cross Section 2.180 To 2411. %

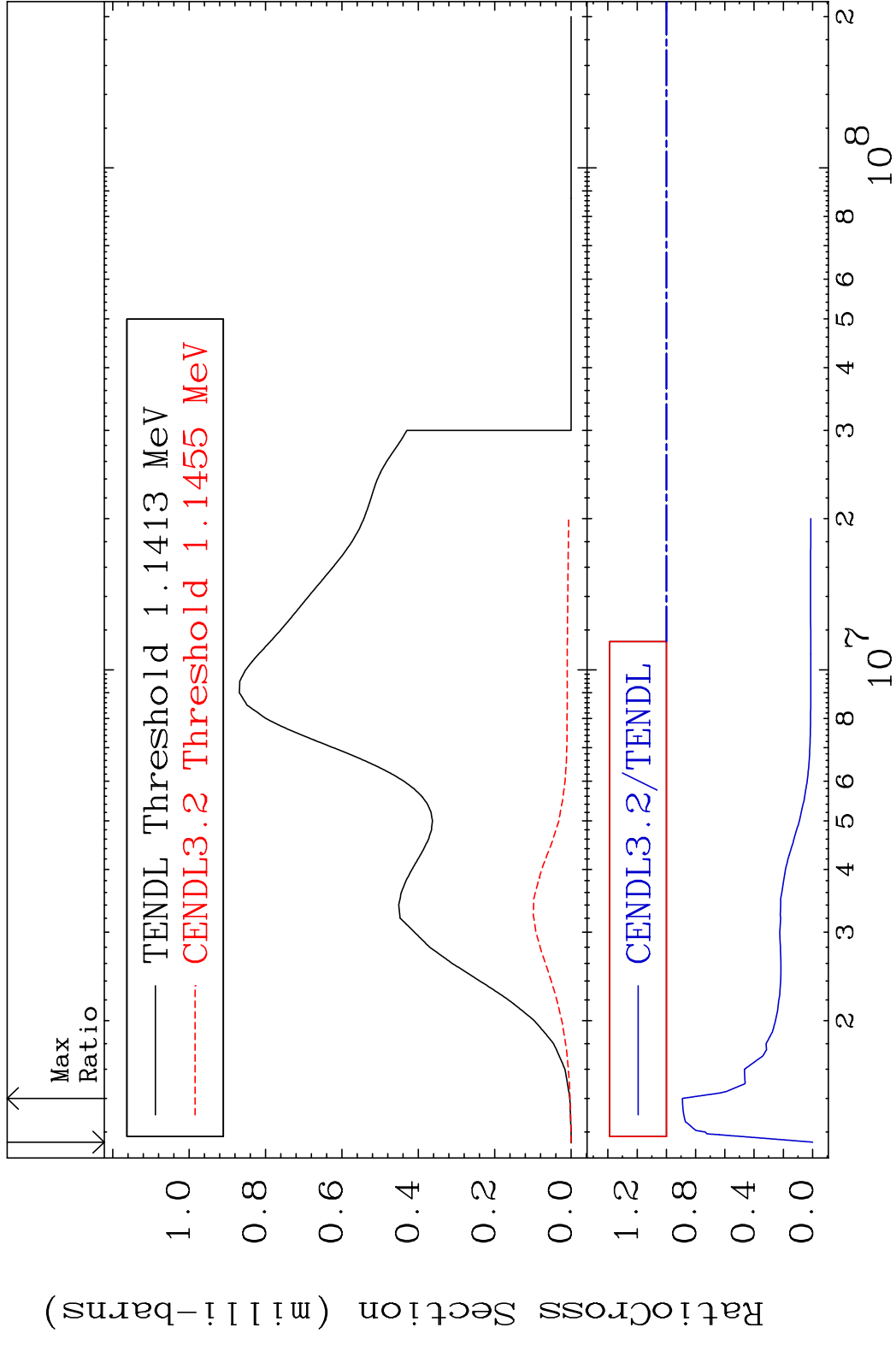


15 Incident Energy (eV) 60-Nd-150

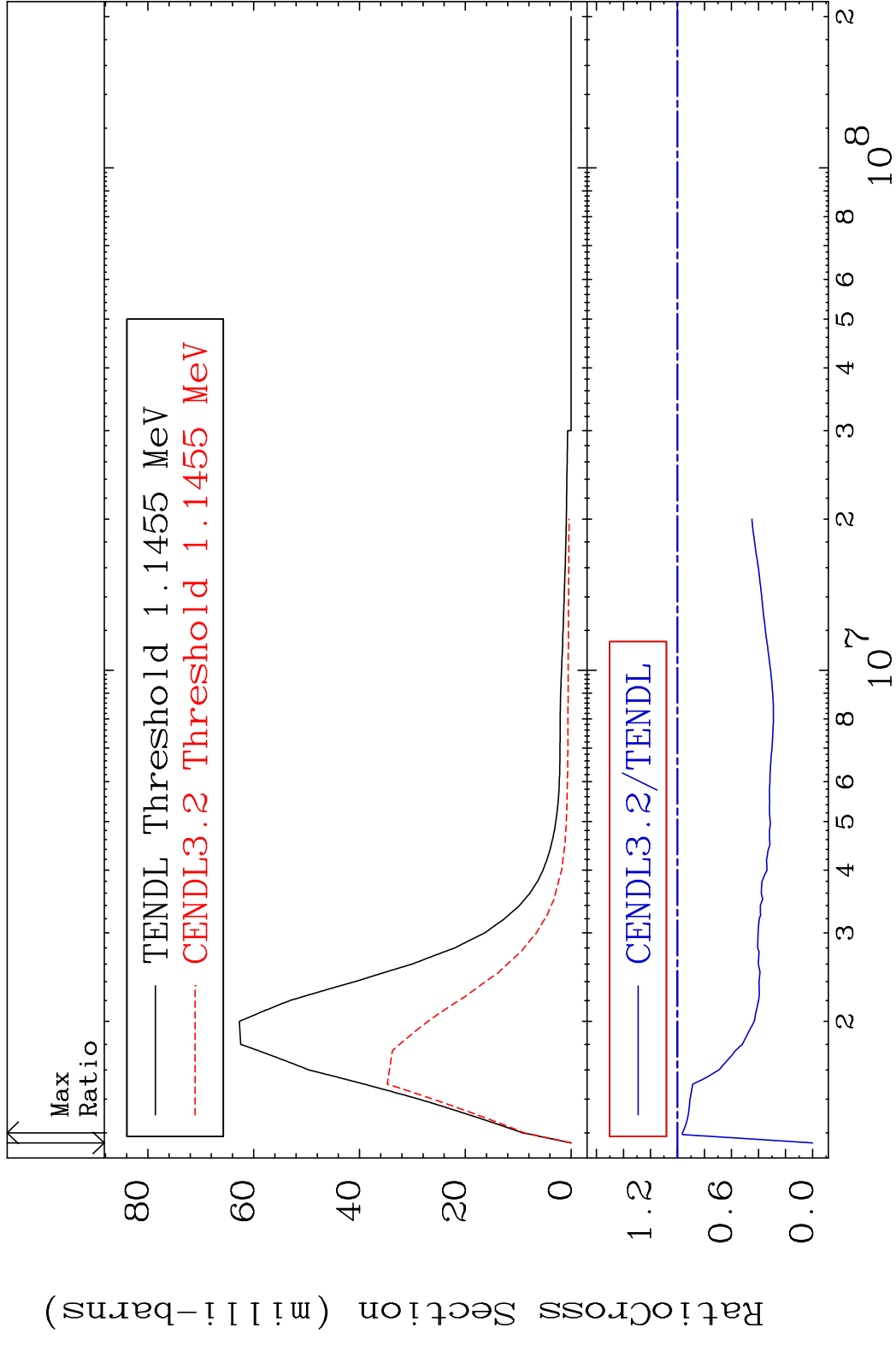
MAT 6049 MT= 59 (n, n') Level 60-Nd-150  
 Cross Section -100.0 To -0.691%



MAT 6049 MT= 60 (n, n') Level 60-Nd-150  
 Cross Section -100.0 To -10.94%



MAT 6049 MT= 61 (n, n') Level 60-Nd-150  
 Cross Section -100.0 To -3.611%

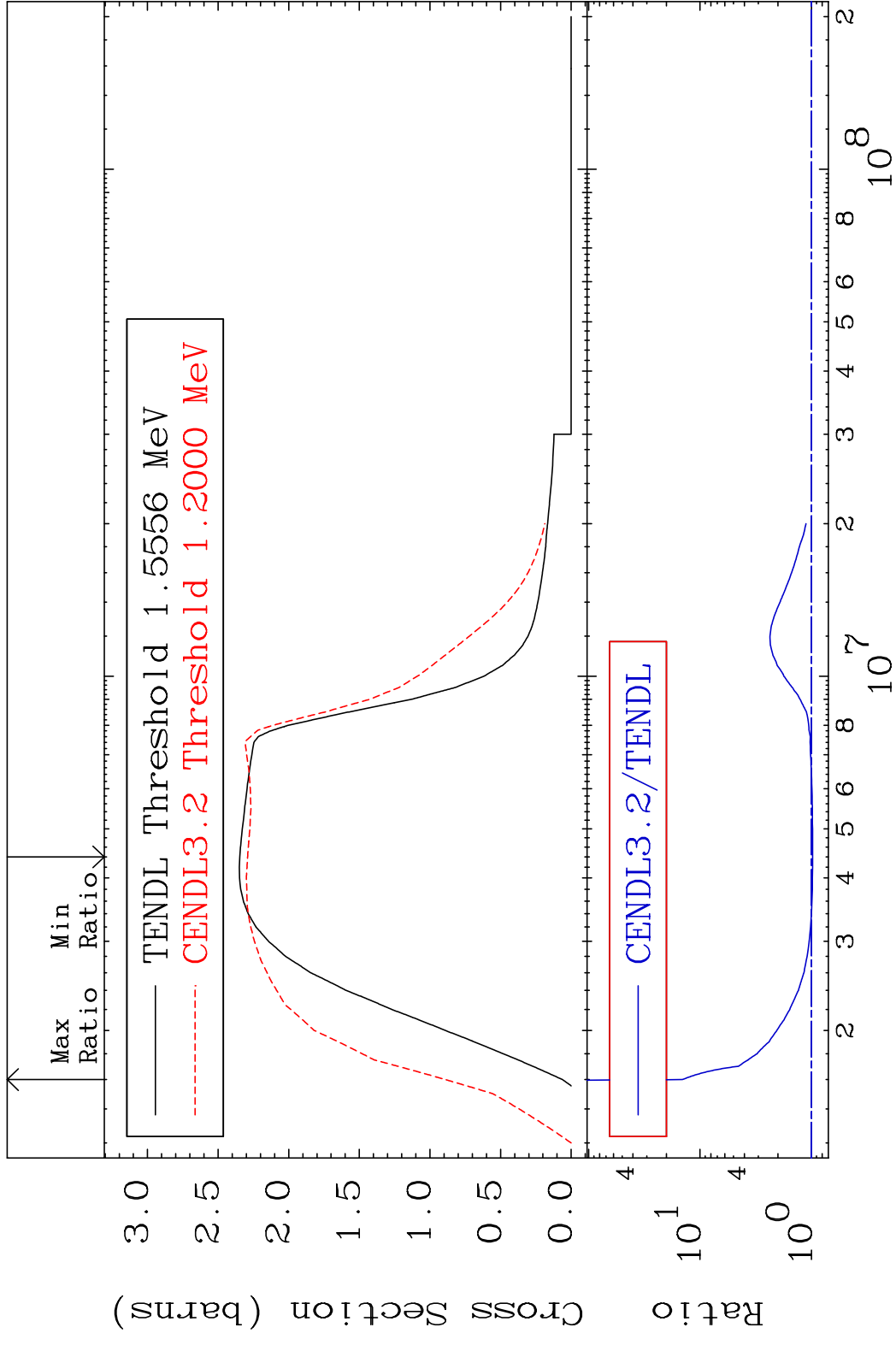


MAT 6049

(n, n') Continuum

60-Nd-150

Cross Section -2.372 To 1342. %



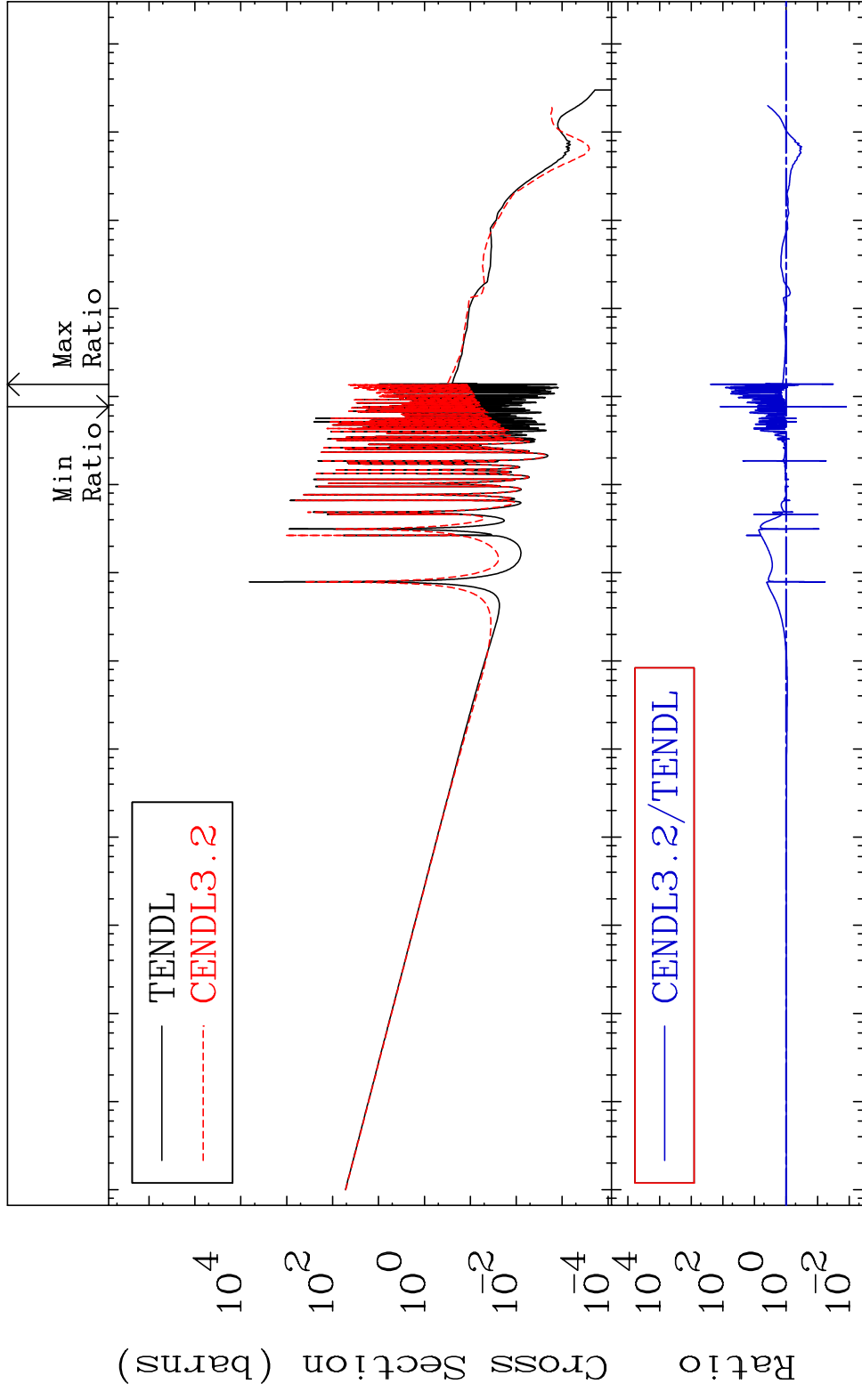
MAT 6049

(n,  $\gamma$ )

60-Nd-150

Cross Section

-98.75 To 9999. %



20

Incident Energy (eV)

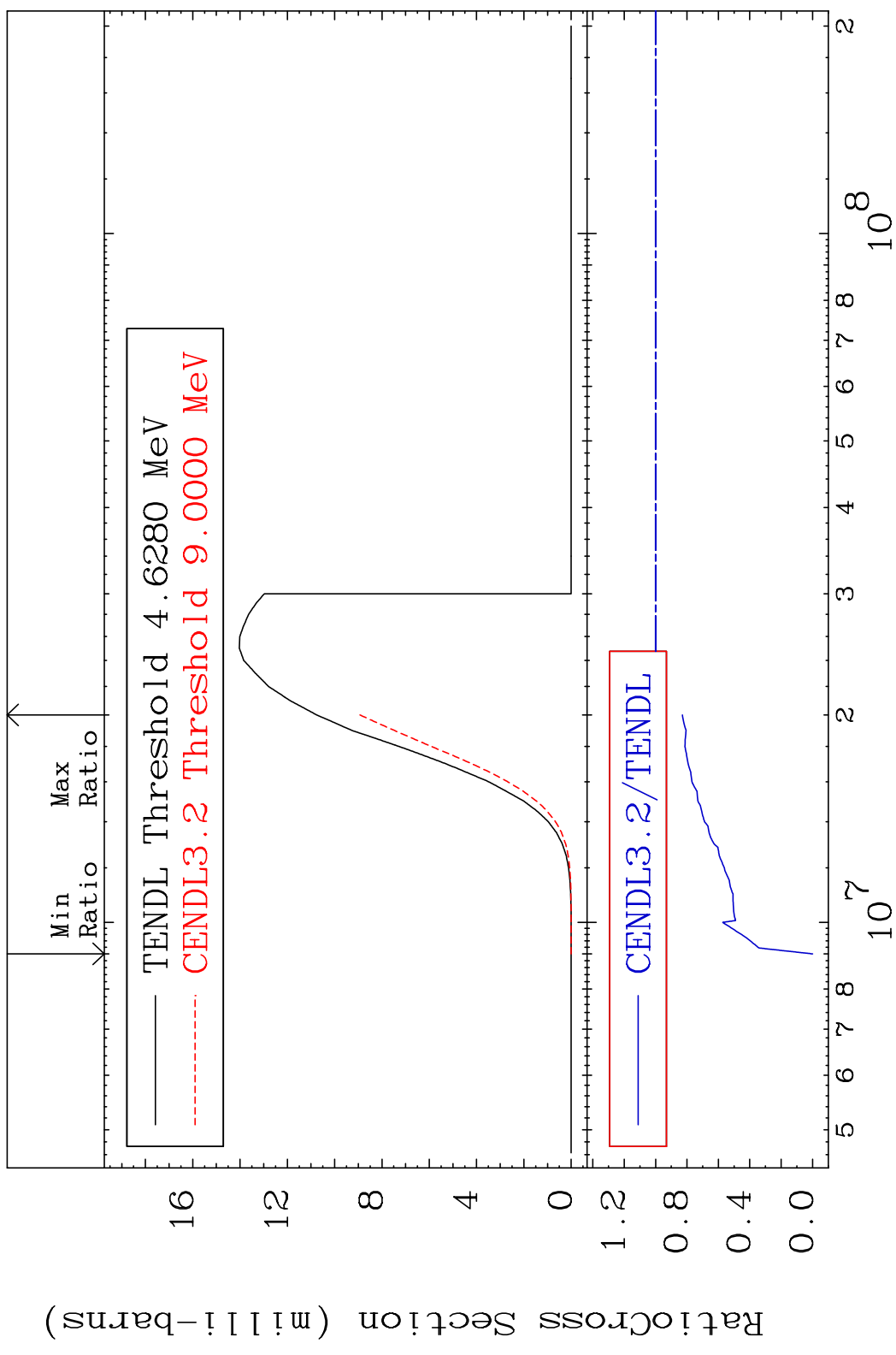
60-Nd-150

MAT 6049

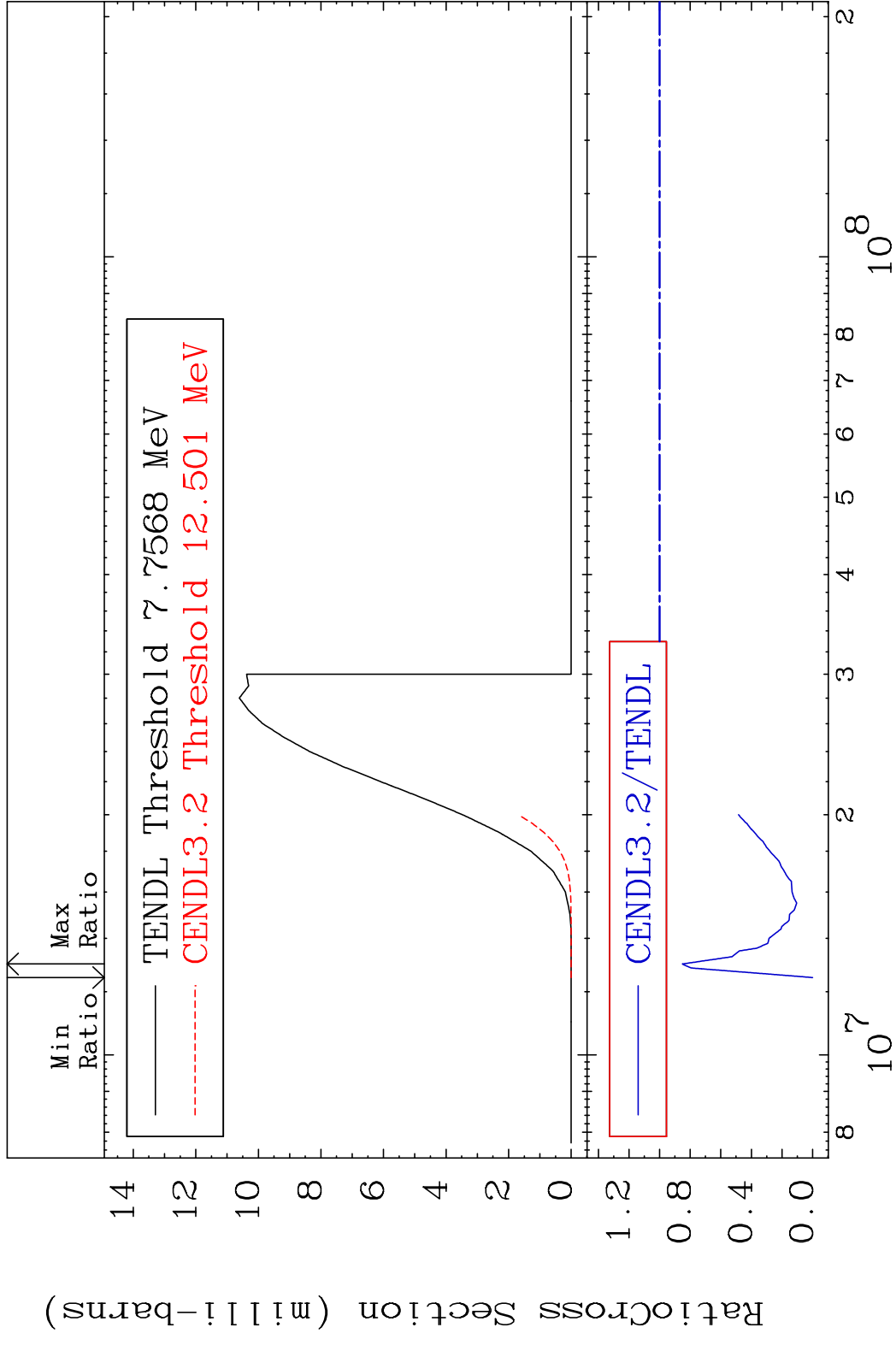
(n, p)

60-Nd-150

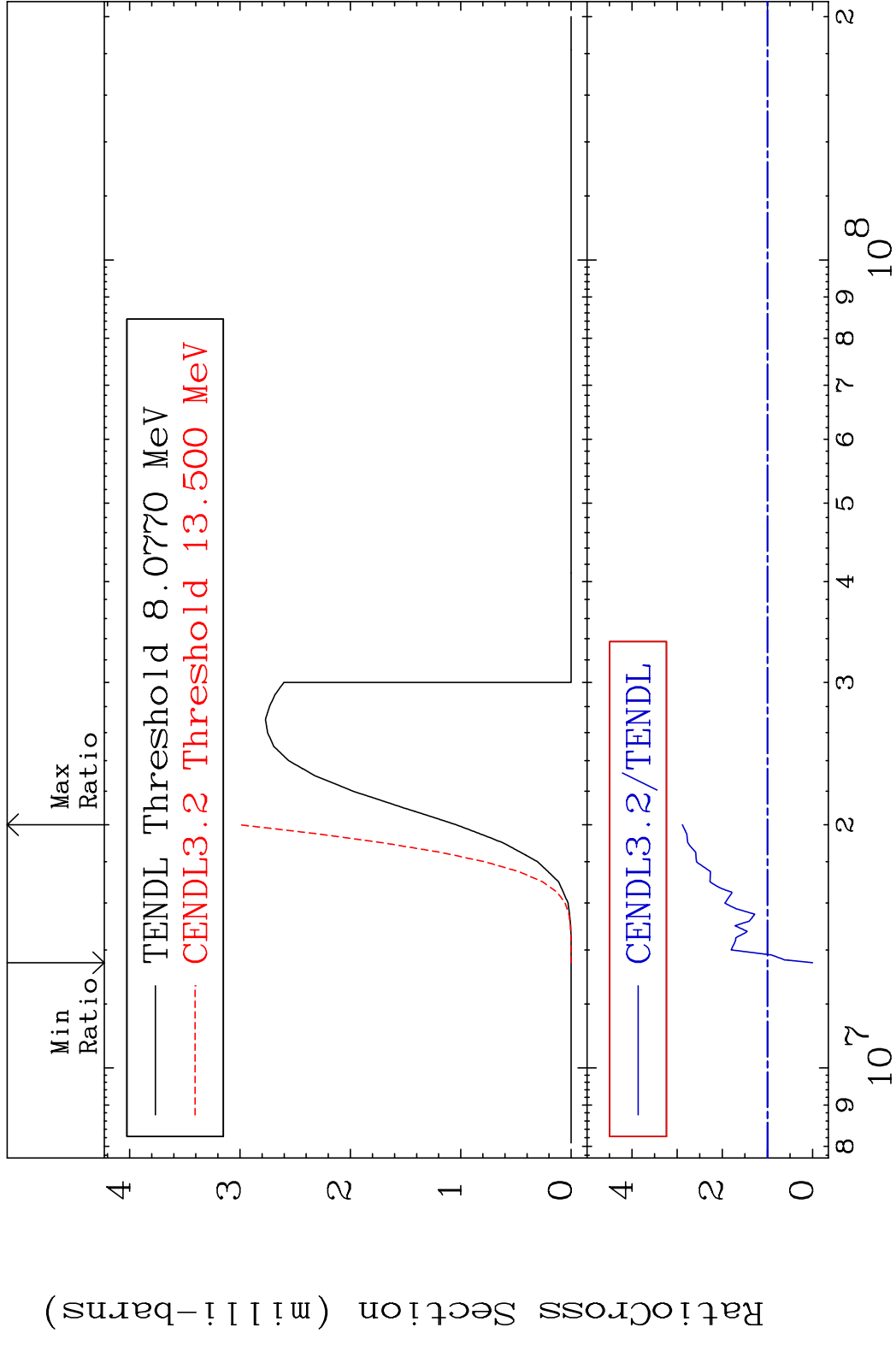
Cross Section -100.0 To -17.05%



MAT 6049 (n,d) 60-Nd-150  
 Cross Section -100.0 To -14.87%



MAT 6049 (n, t) 60-Nd-150  
 Cross Section -100.0 To 188.5 %

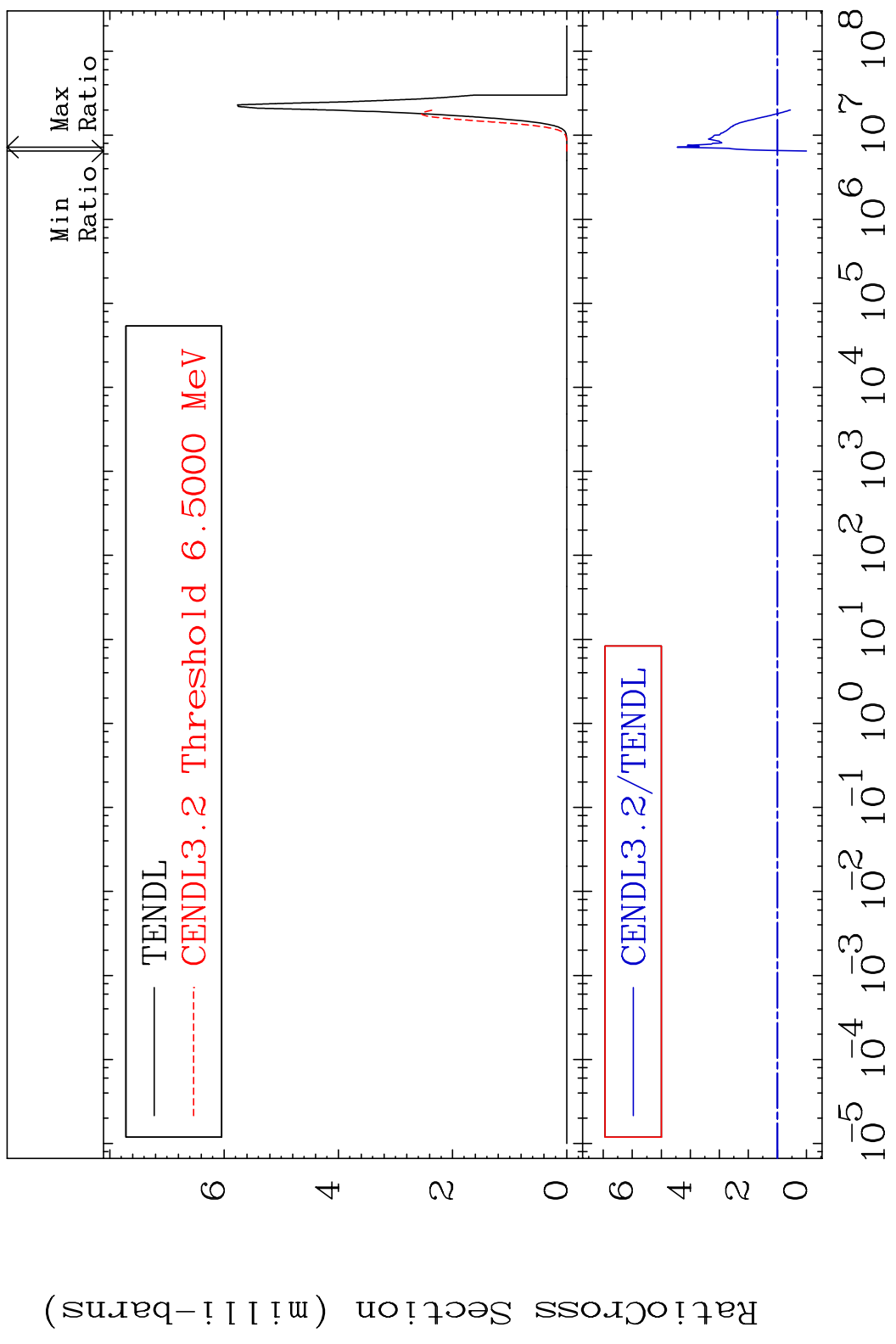


MAT 6049

(n,  $\alpha$ )

60-Nd-150

Cross Section -100.0 To 345.2 %

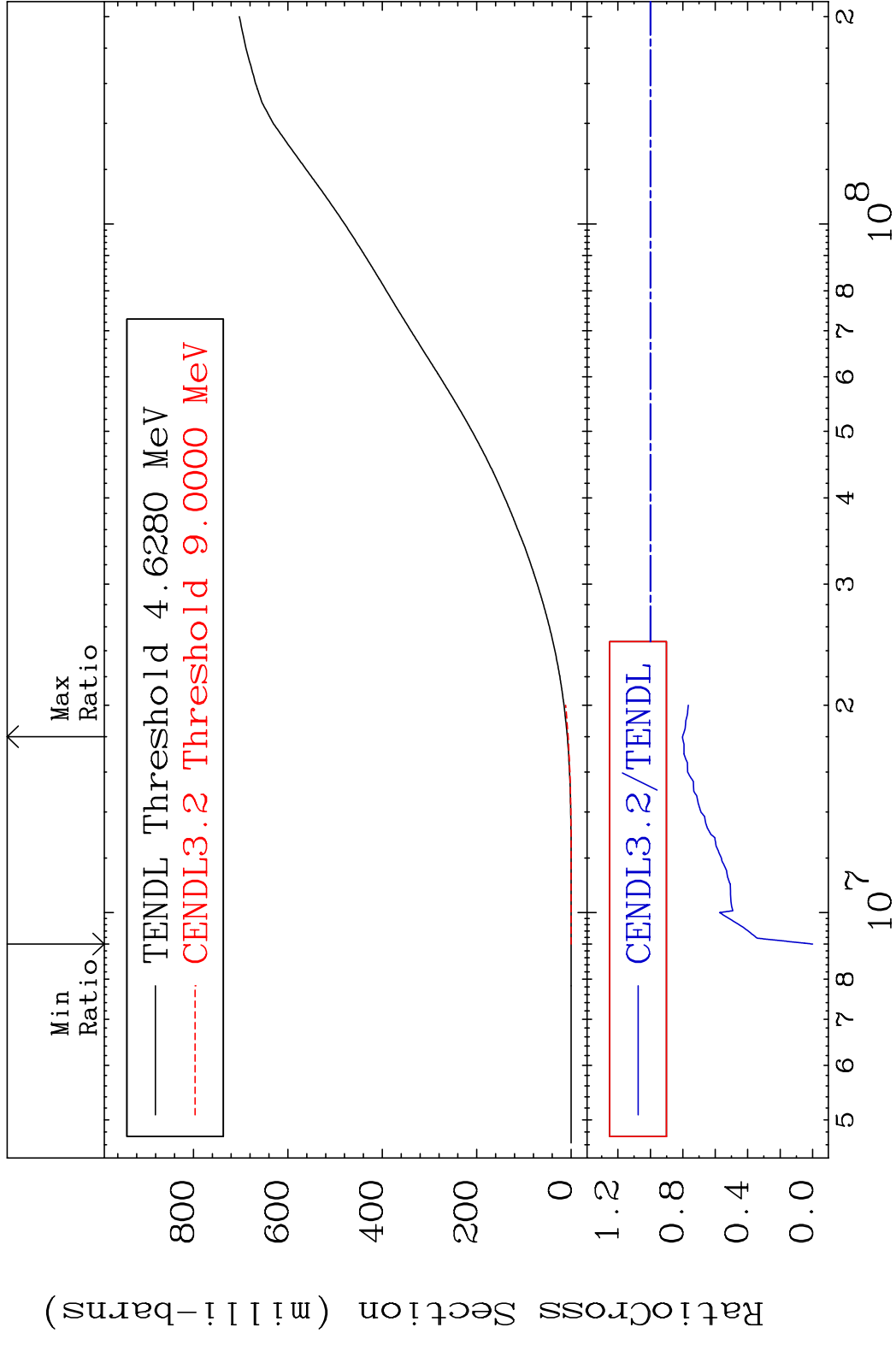


24

Incident Energy (eV)

60-Nd-150

MAT 6049 Hydrogen Production 60-Nd-150  
 Cross Section -100.0 To -19.73%

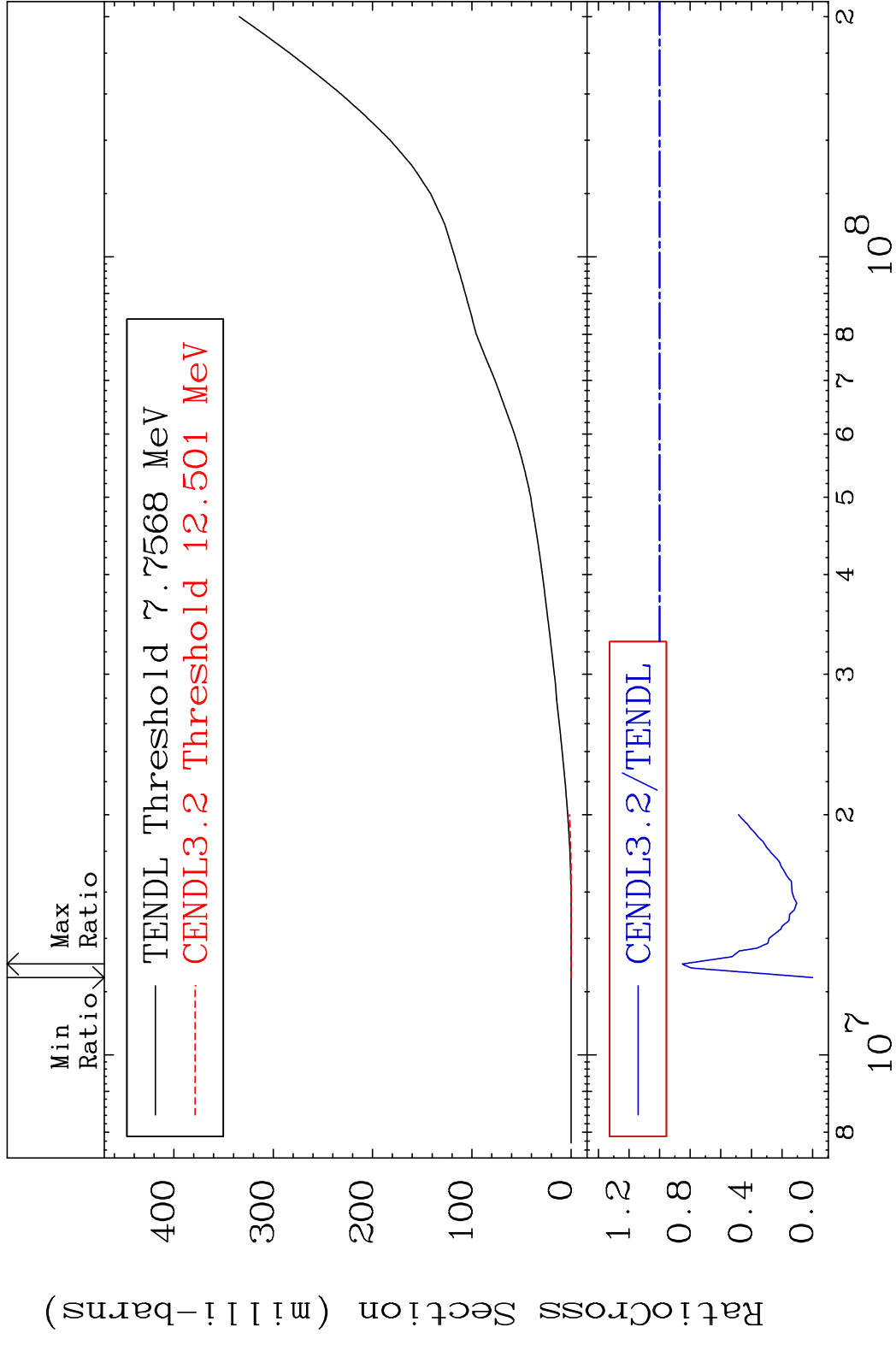


MAT 6049

Deuterium Production

60-Nd-150

Cross Section -100.0 To -14.87%

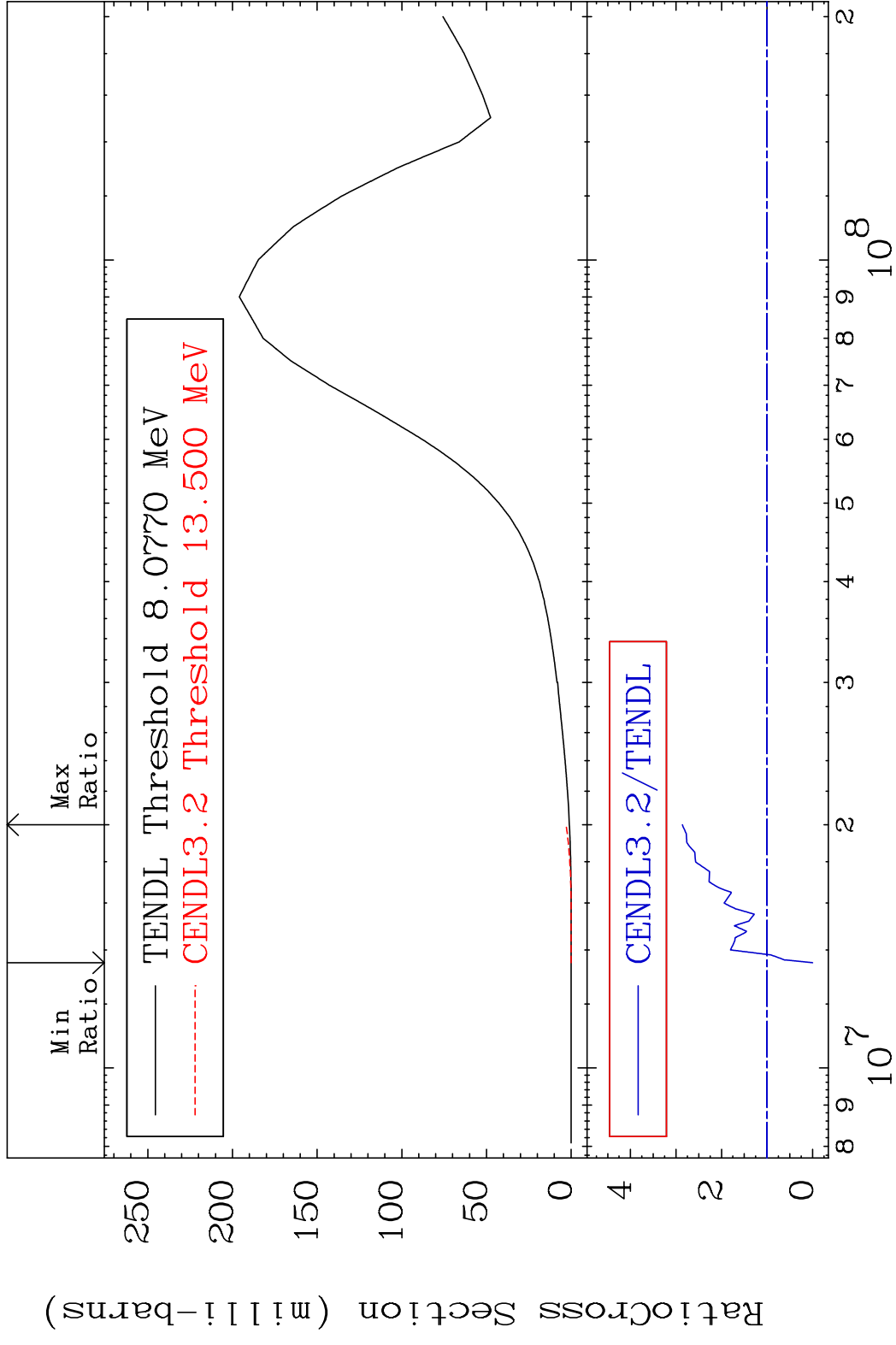


26

Incident Energy (eV)

60-Nd-150

MAT 6049 Tritium Production 60-Nd-150  
 Cross Section -100.0 To 186.0 %

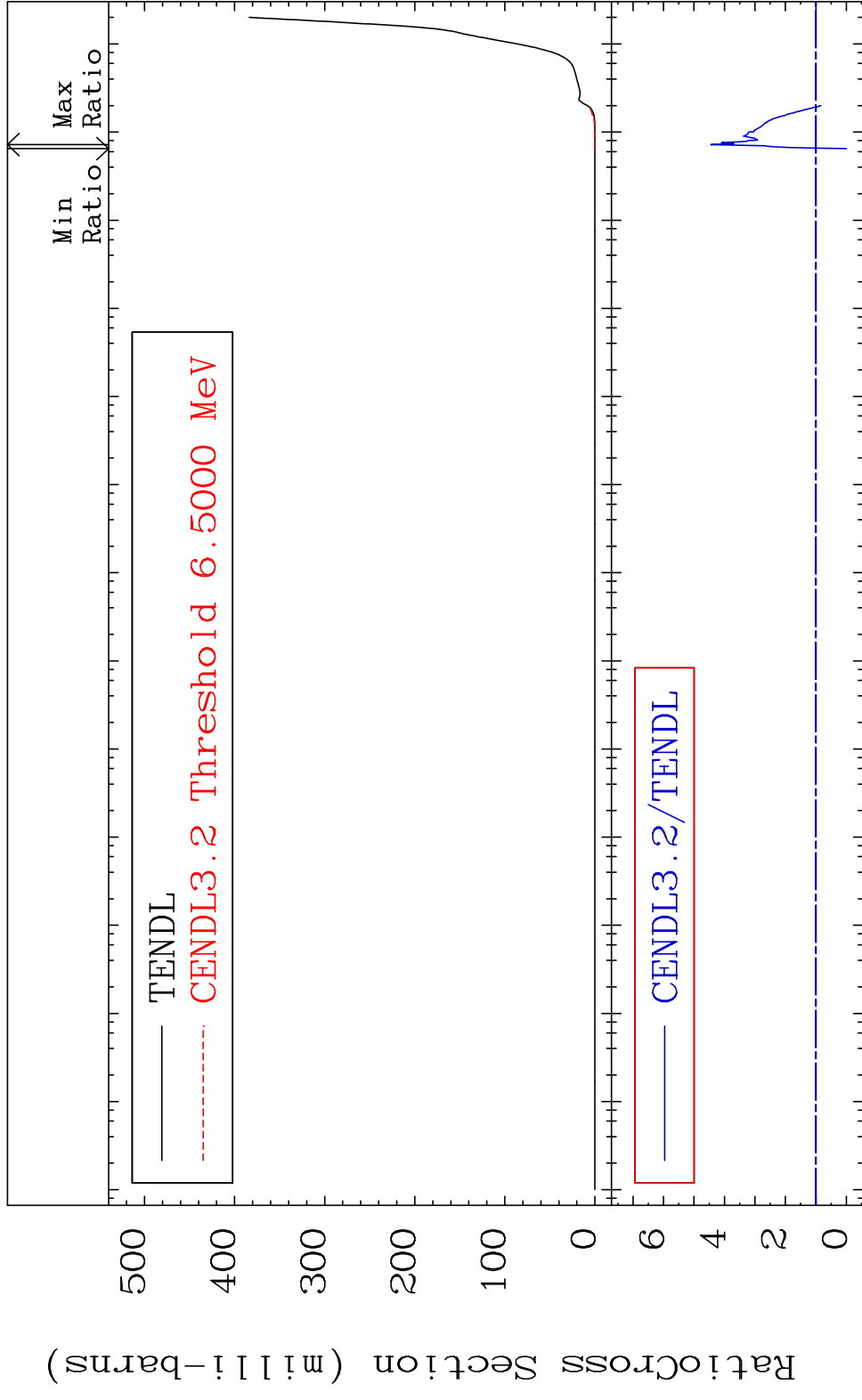


MAT 6049

He-4 Production

60-Nd-150

Cross Section -100.0 To 345.1 %

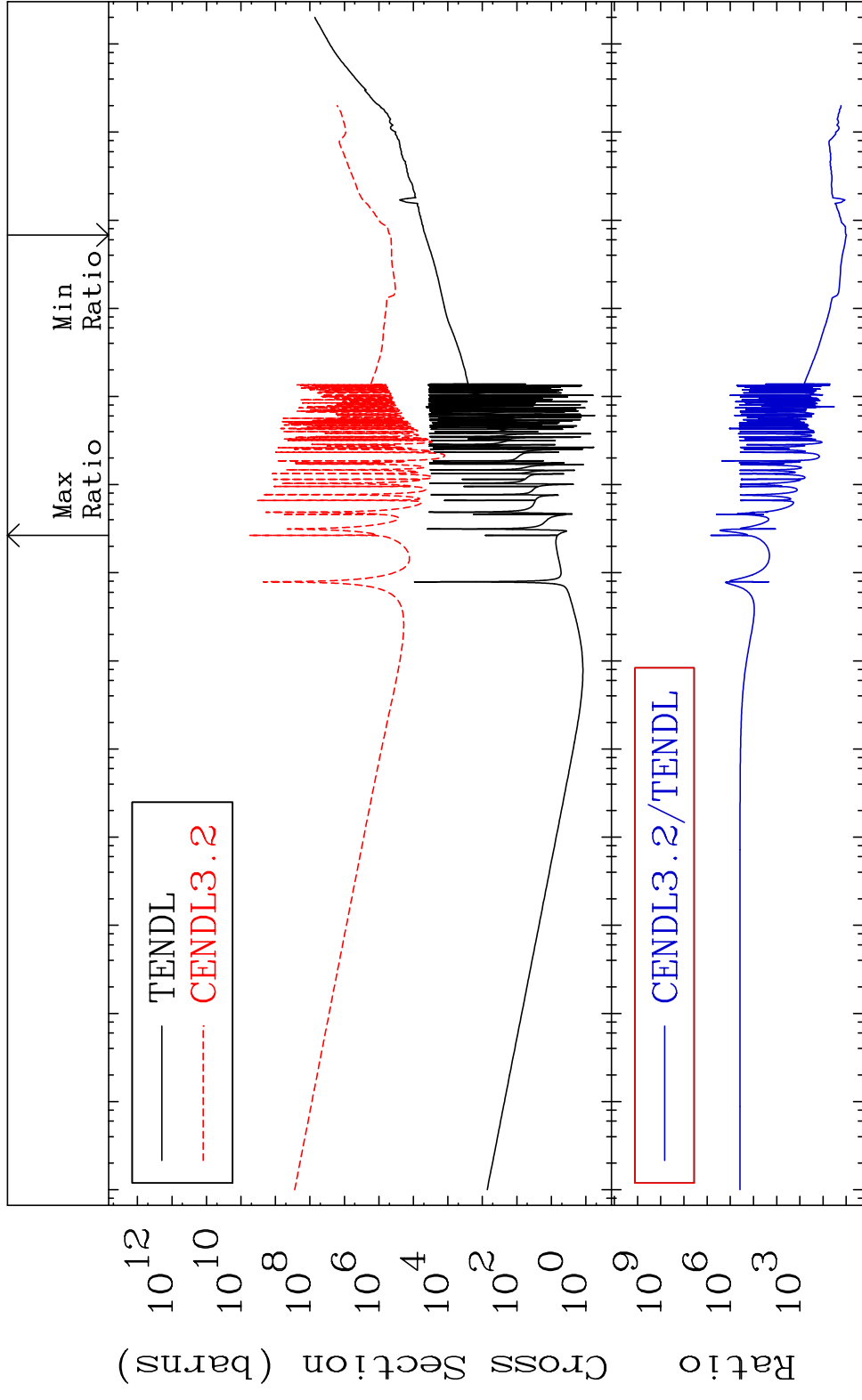


28

Incident Energy (eV)

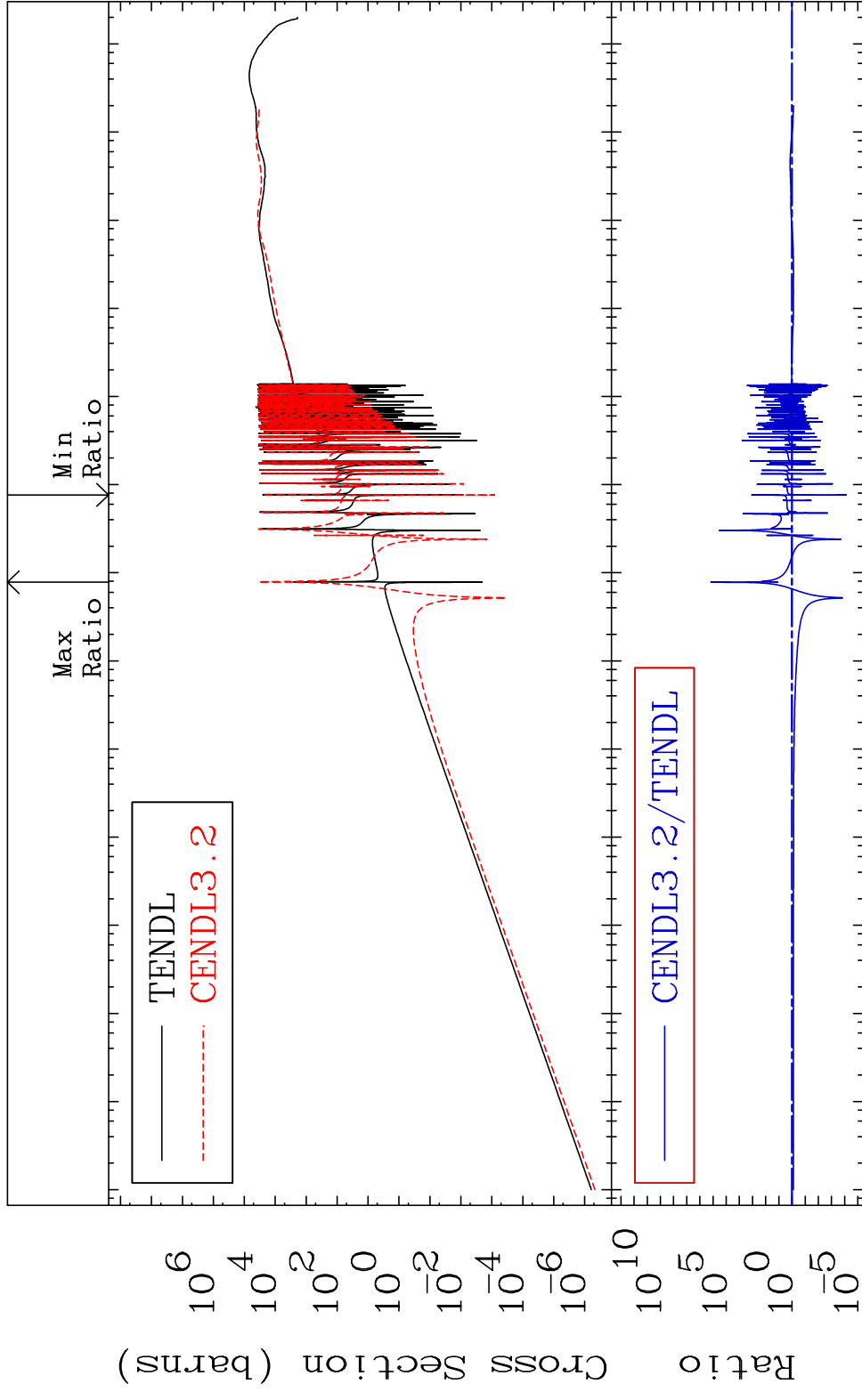
60-Nd-150

MAT 6049 Kerma total (eV-barns) 60-Nd-150  
 Cross Section 889.2 To 9999. %



MAT 6049

Kerma elastic Cross Section -99.99 To 9999. %  
60-Nd-150

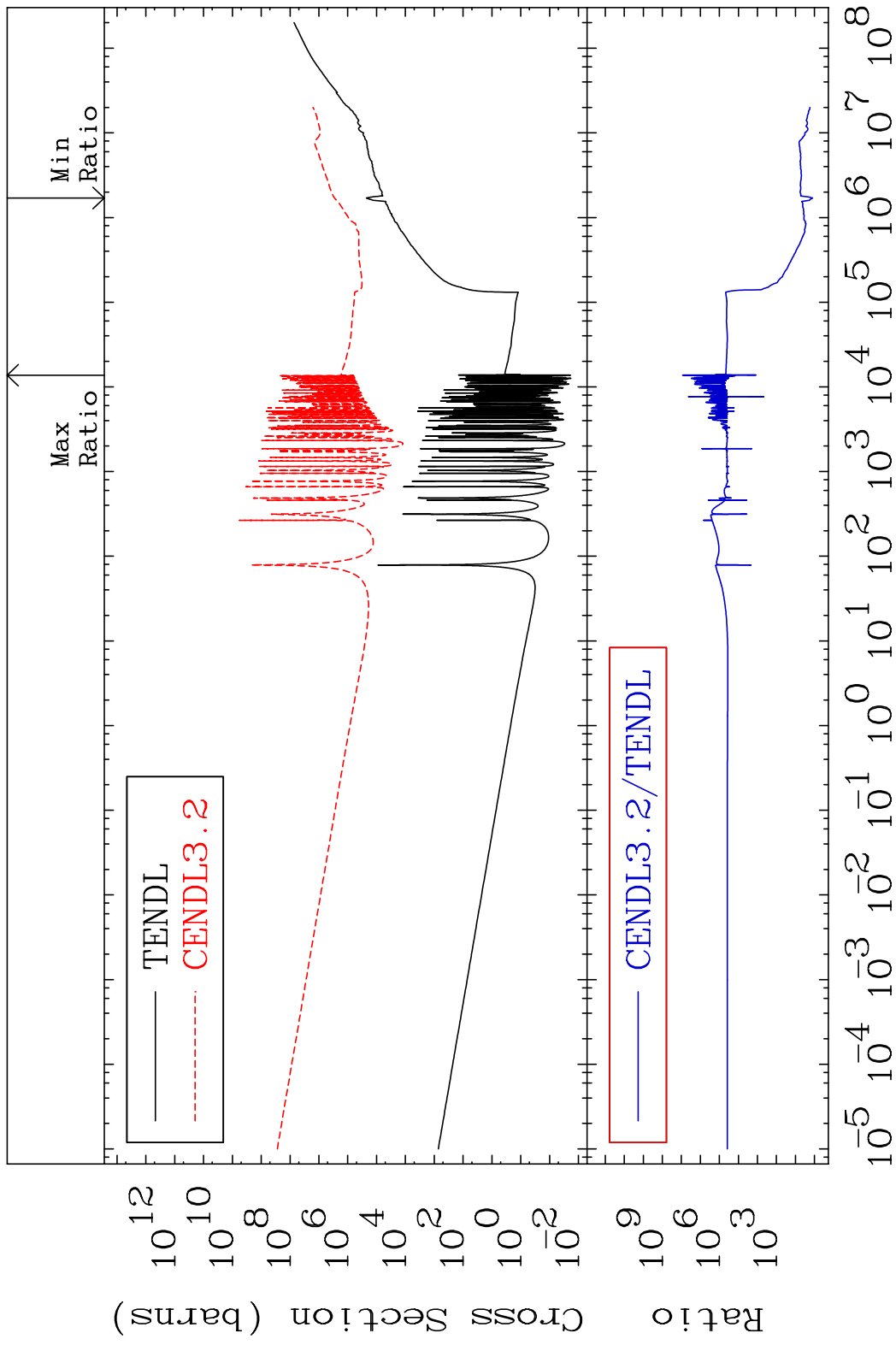


30

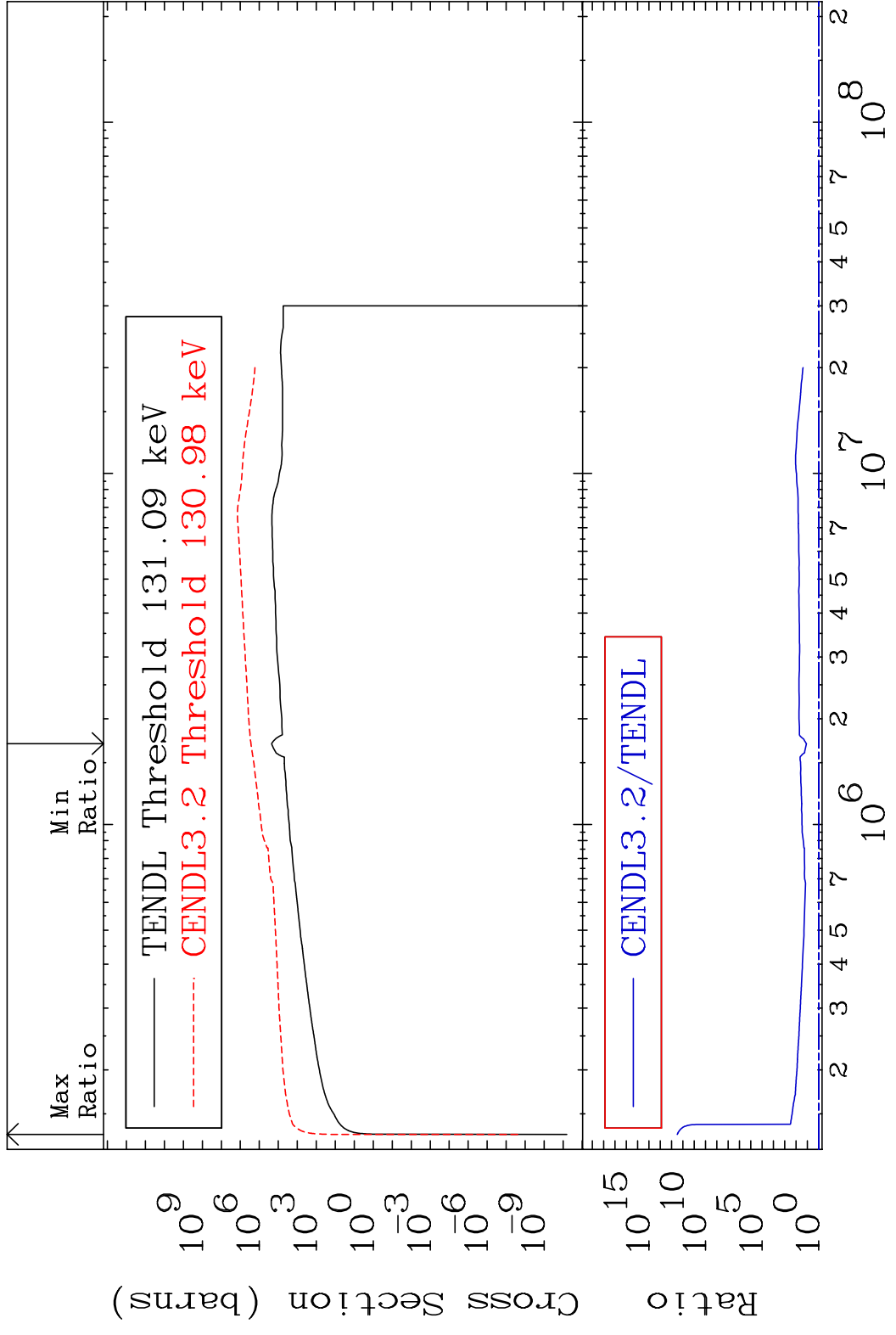
Incident Energy (eV)

60-Nd-150

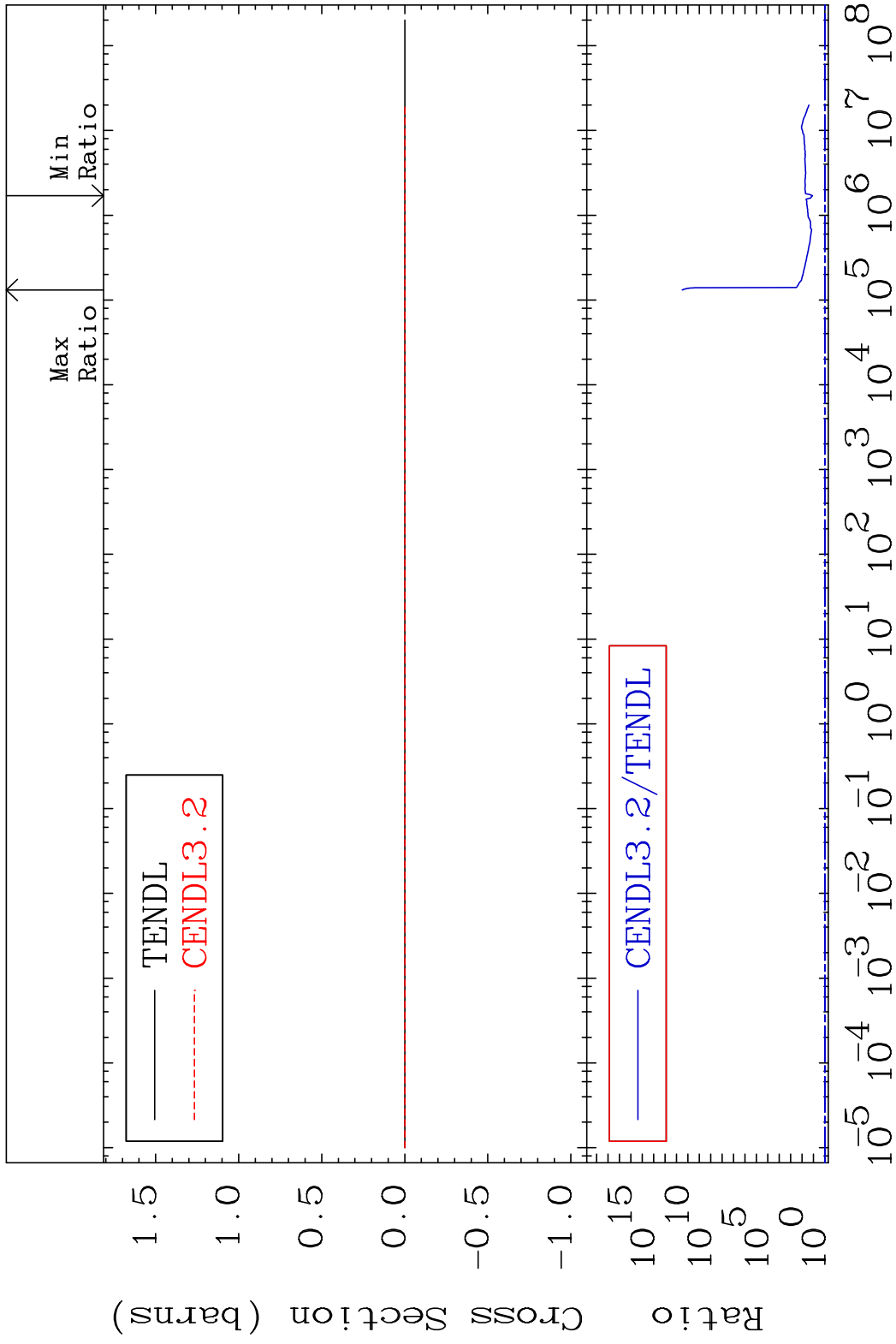
MAT 6049 Kerma non-elastic (all but mt2) 60-Nd-150  
 Cross Section 1162. To 9999. %



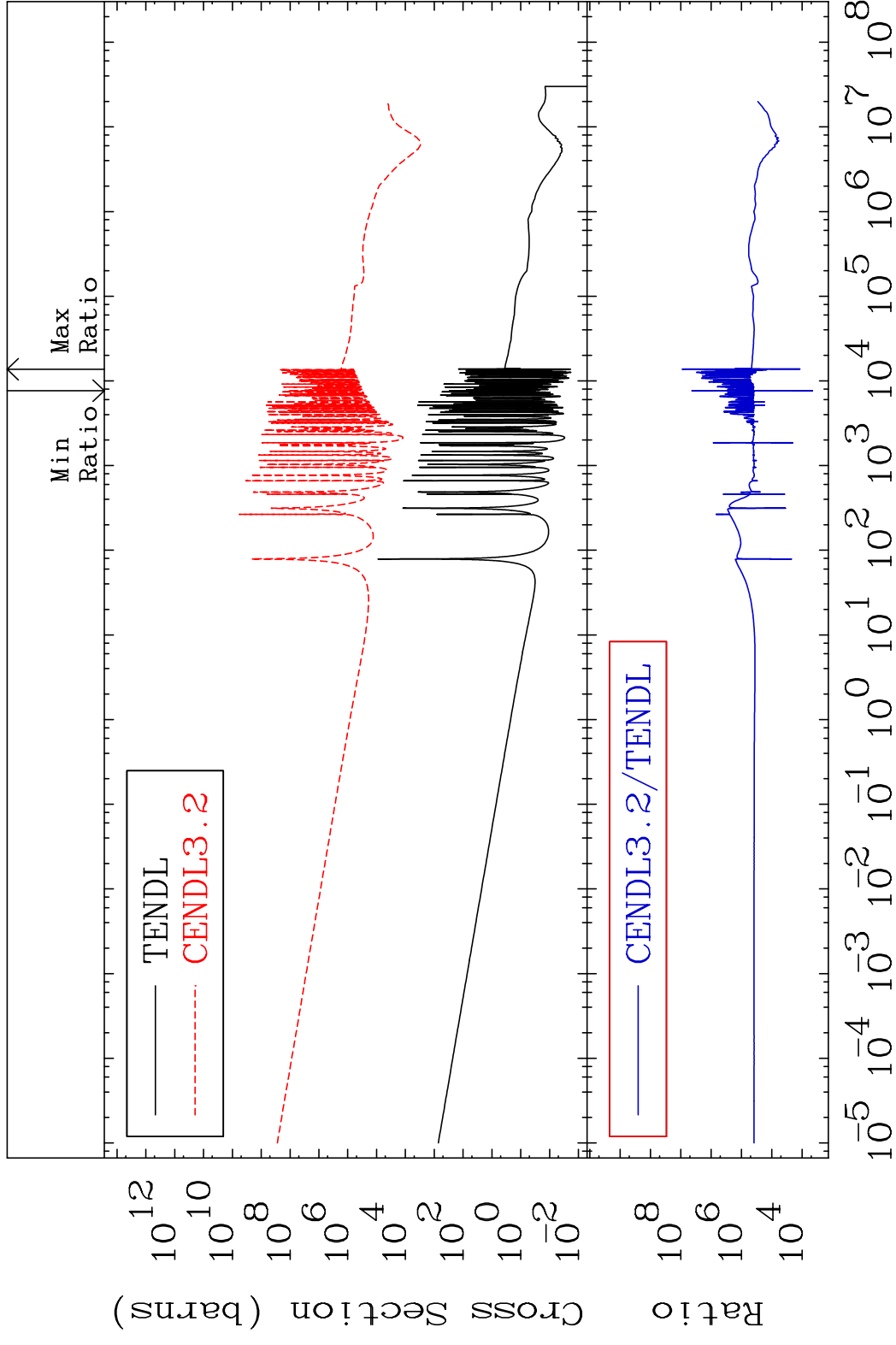
MAT 6049 Kerma inelastic (mt51-91) 60-Nd-150  
 Cross Section 1118. To 9999. %



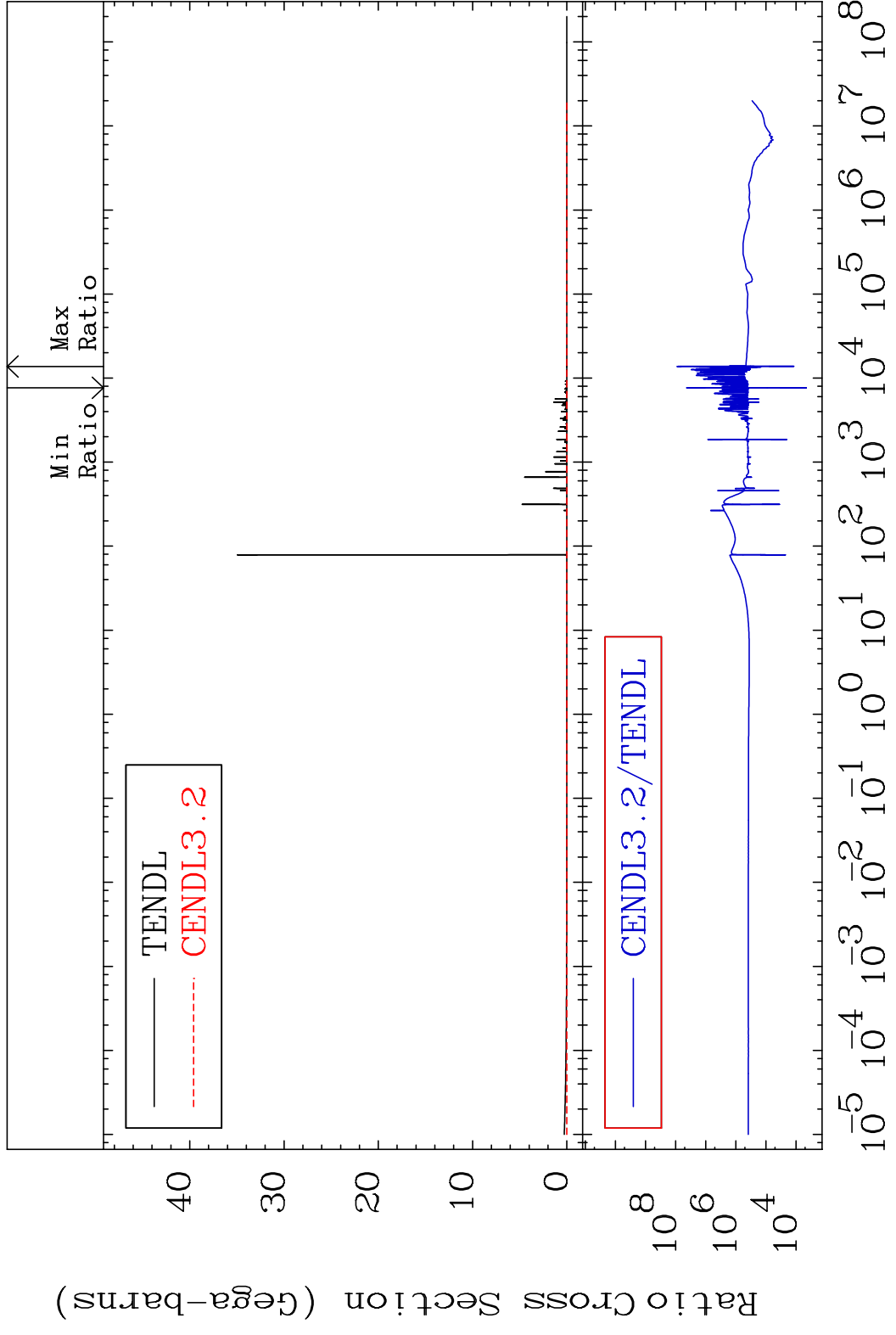
MAT 6049 Kerma fission (mt18 or mt19-20-21-38)  $^{60}\text{Nd}$ -150  
 Cross Section 1118. To 9999. %



MAT 6049 Kerma capture (mt102) 60-Nd-150  
 Cross Section 9999. To 9999. %

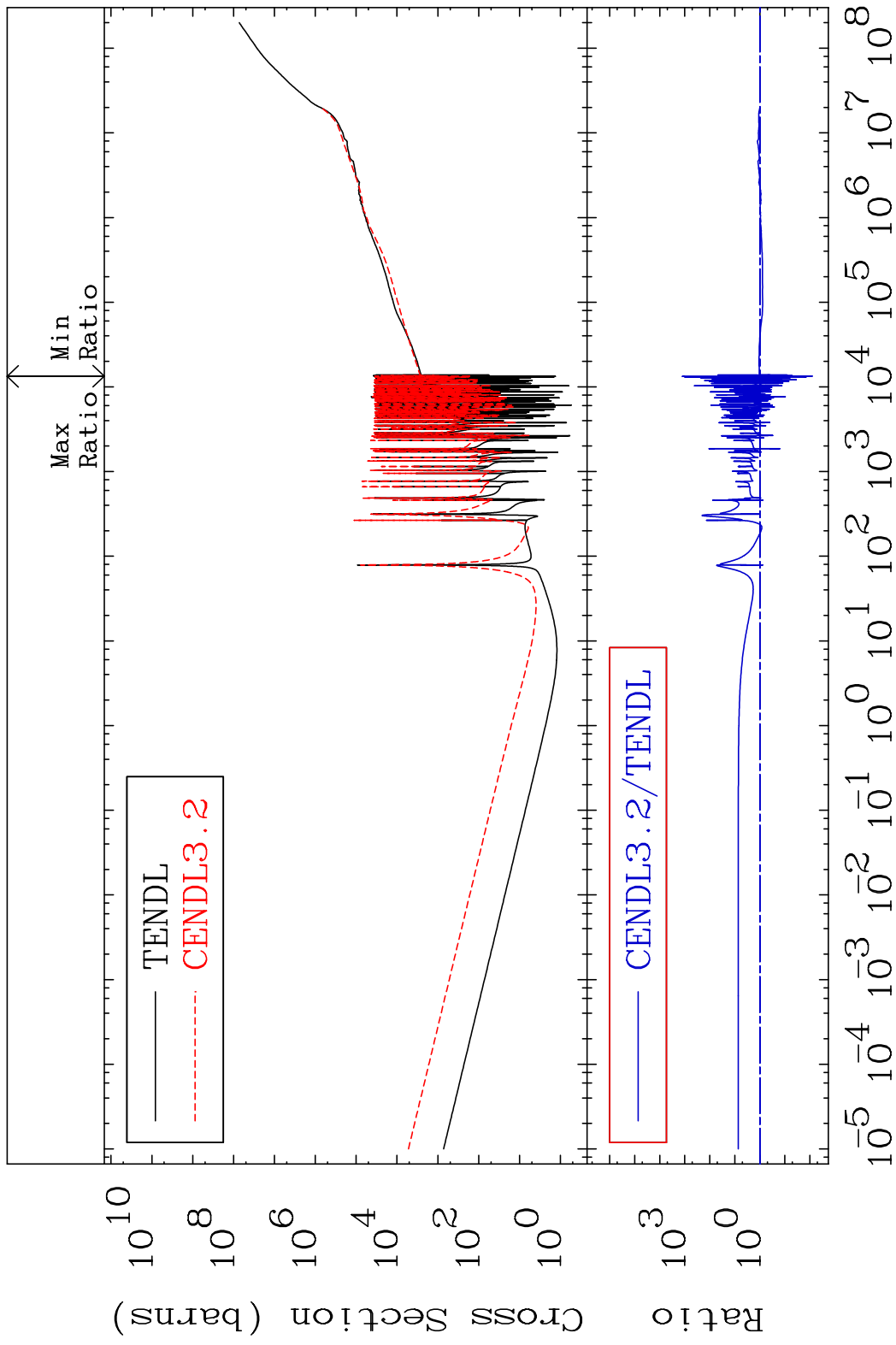


MAT 6049 Total photon (eV-barns) 60-Nd-150  
 Cross Section 9999. To 9999. %

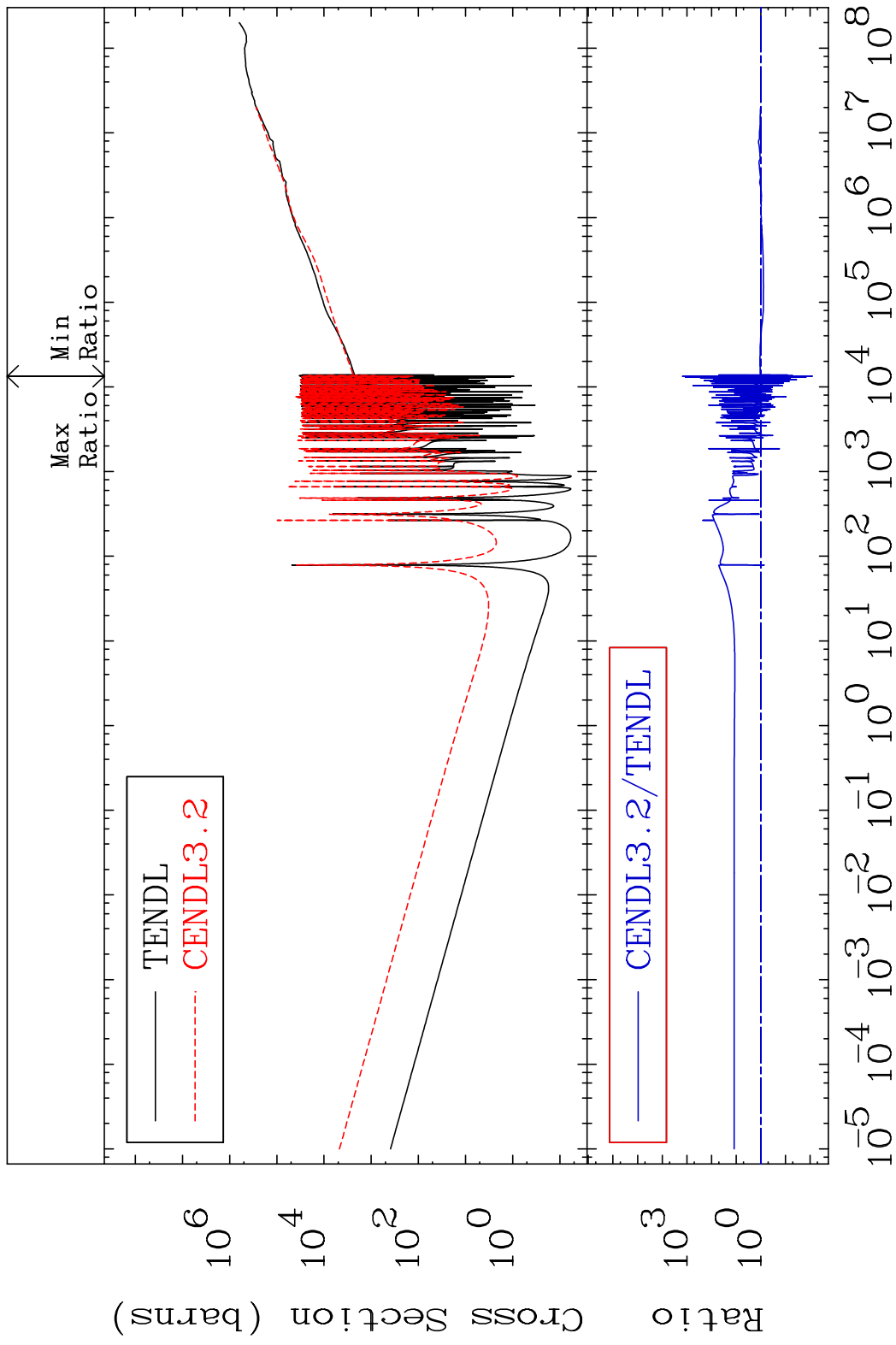


35 Incident Energy (eV) 60-Nd-150

MAT 6049 Total kinematic kerma (high limit) 60-Nd-150  
 Cross Section -99.22 To 9999. %



MAT 6049      Dpa total (eV-barns)      60-Nd-150  
 Cross Section      -99.21 To 9999. %

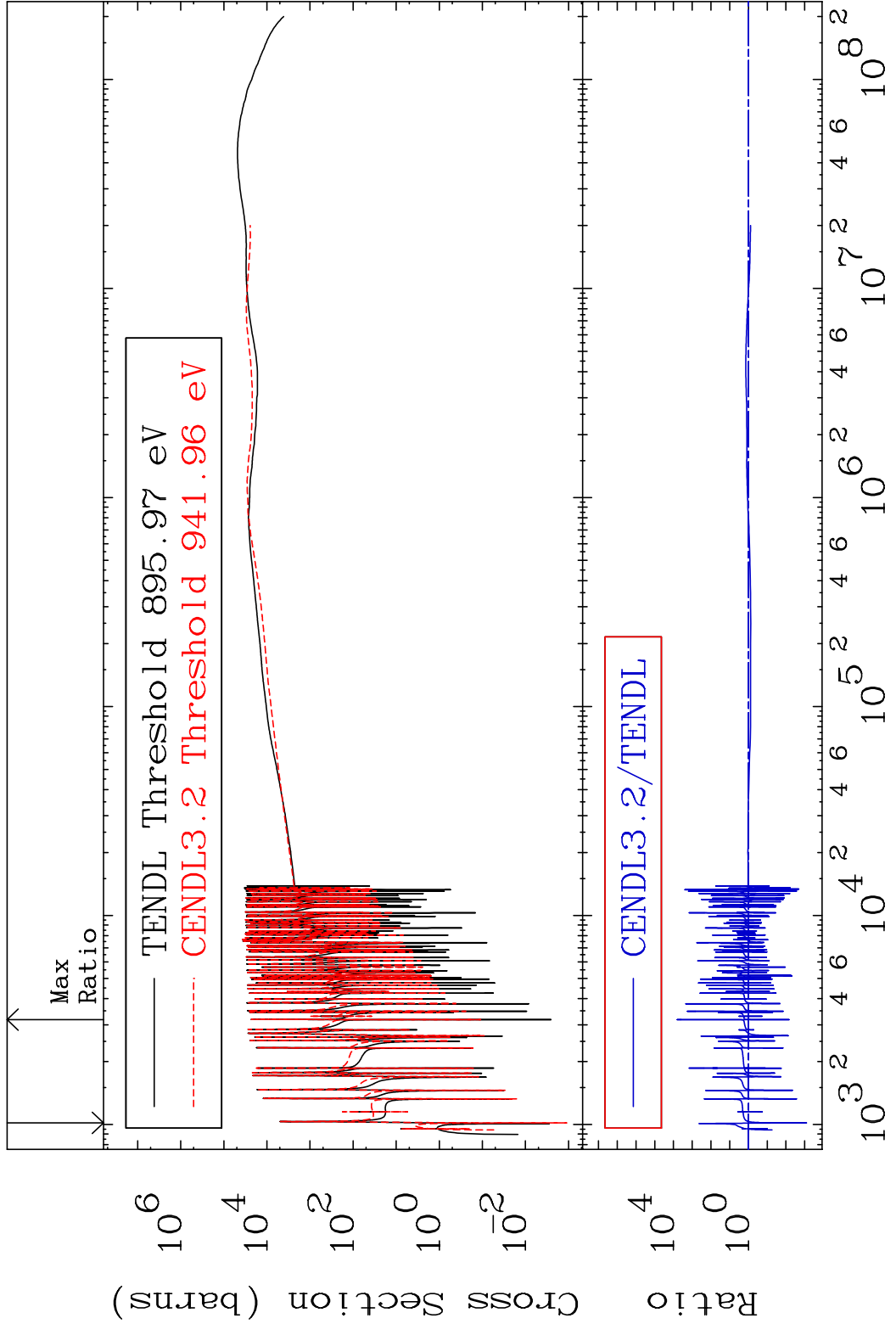


MAT 6049

Dpa elastic (mt2)

60-Nd-150

Cross Section -99.92 To 9999. %

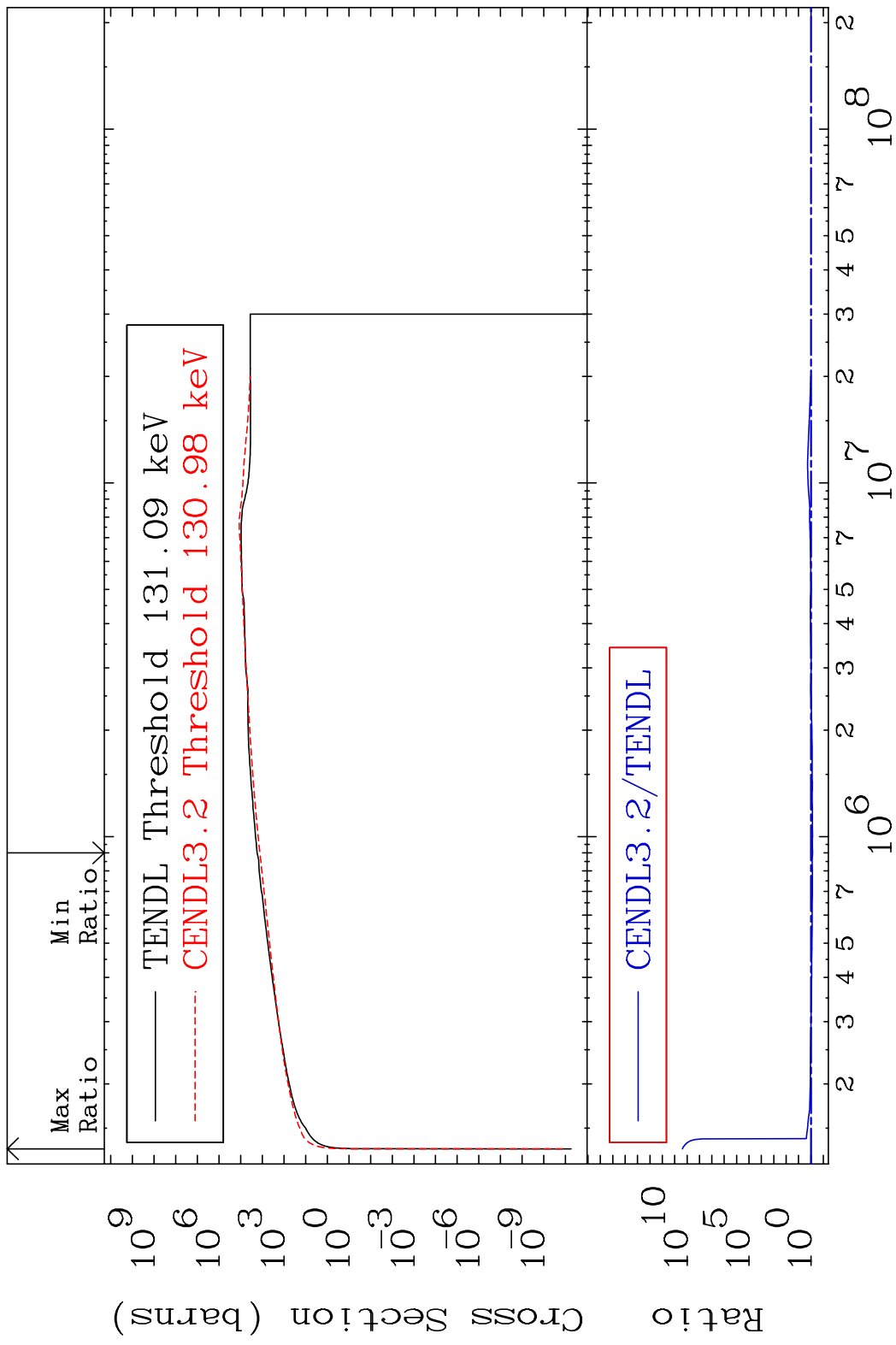


38

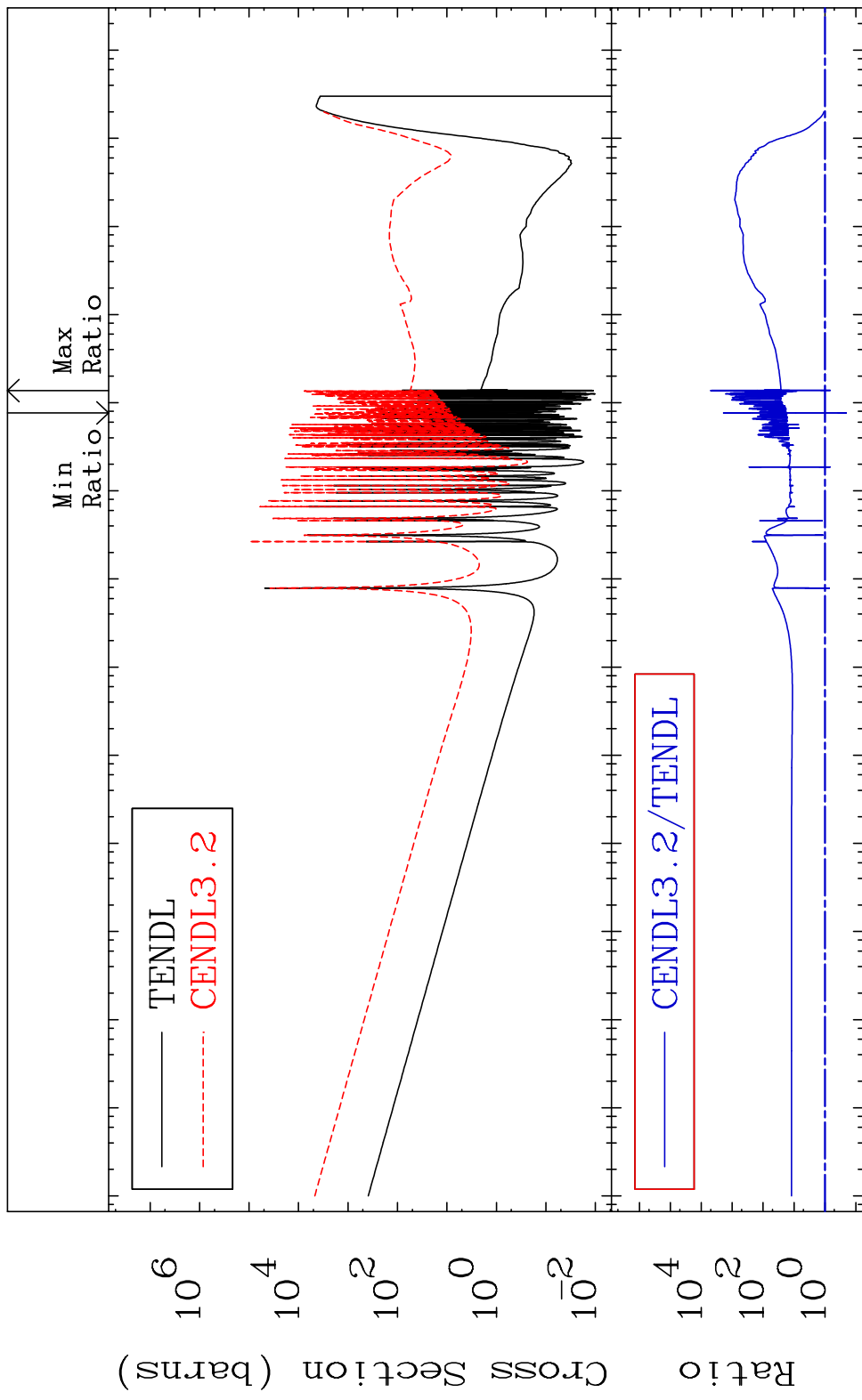
Incident Energy (eV)

60-Nd-150

MAT 6049 Dpa inelastic (mt51-91) 60-Nd-150  
 Cross Section -26.08 To 9999. %

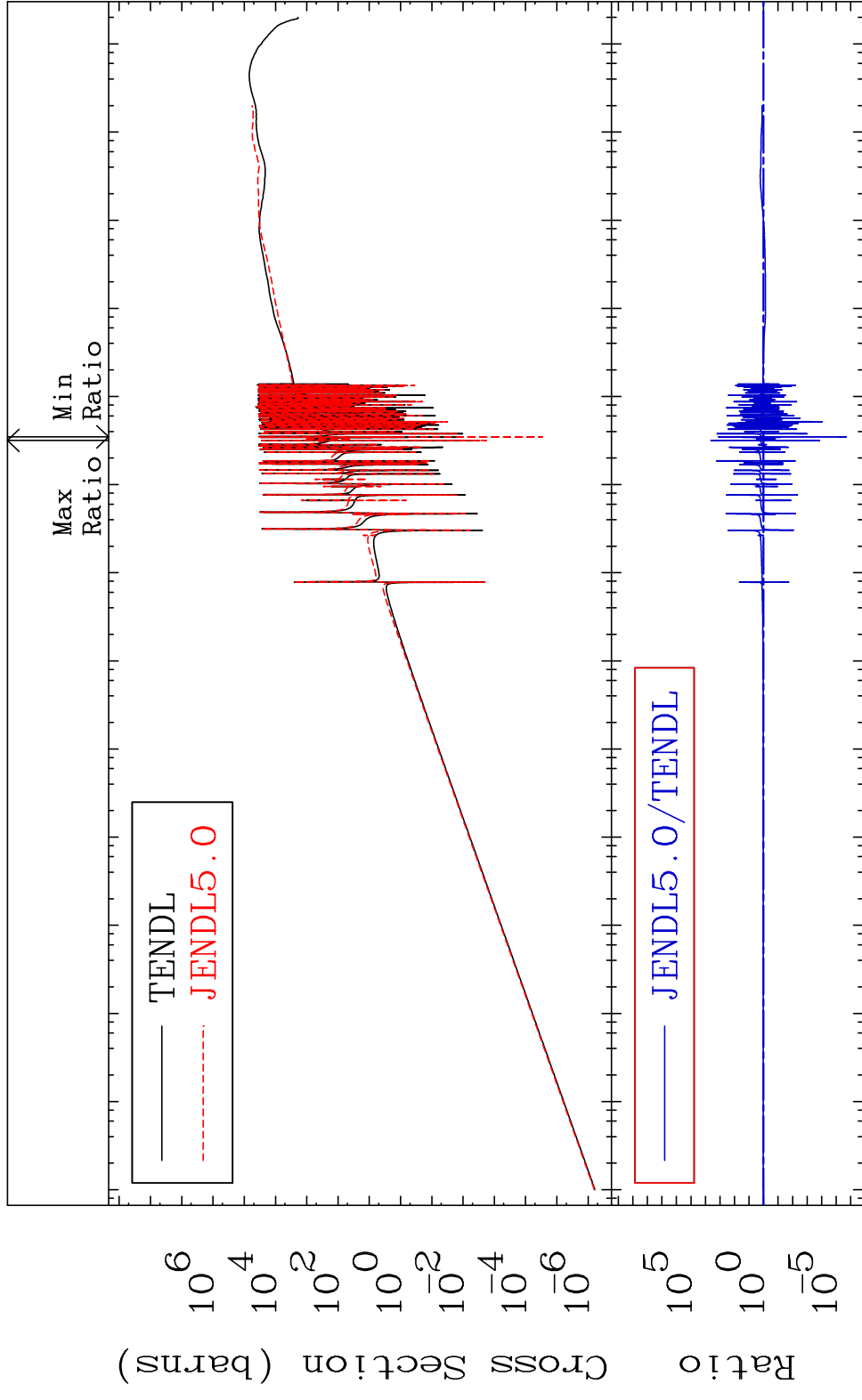


MAT 6049 Dpa disappearance (mt102 -120) 60-Nd-150  
 Cross Section -79.77 To 9999. %

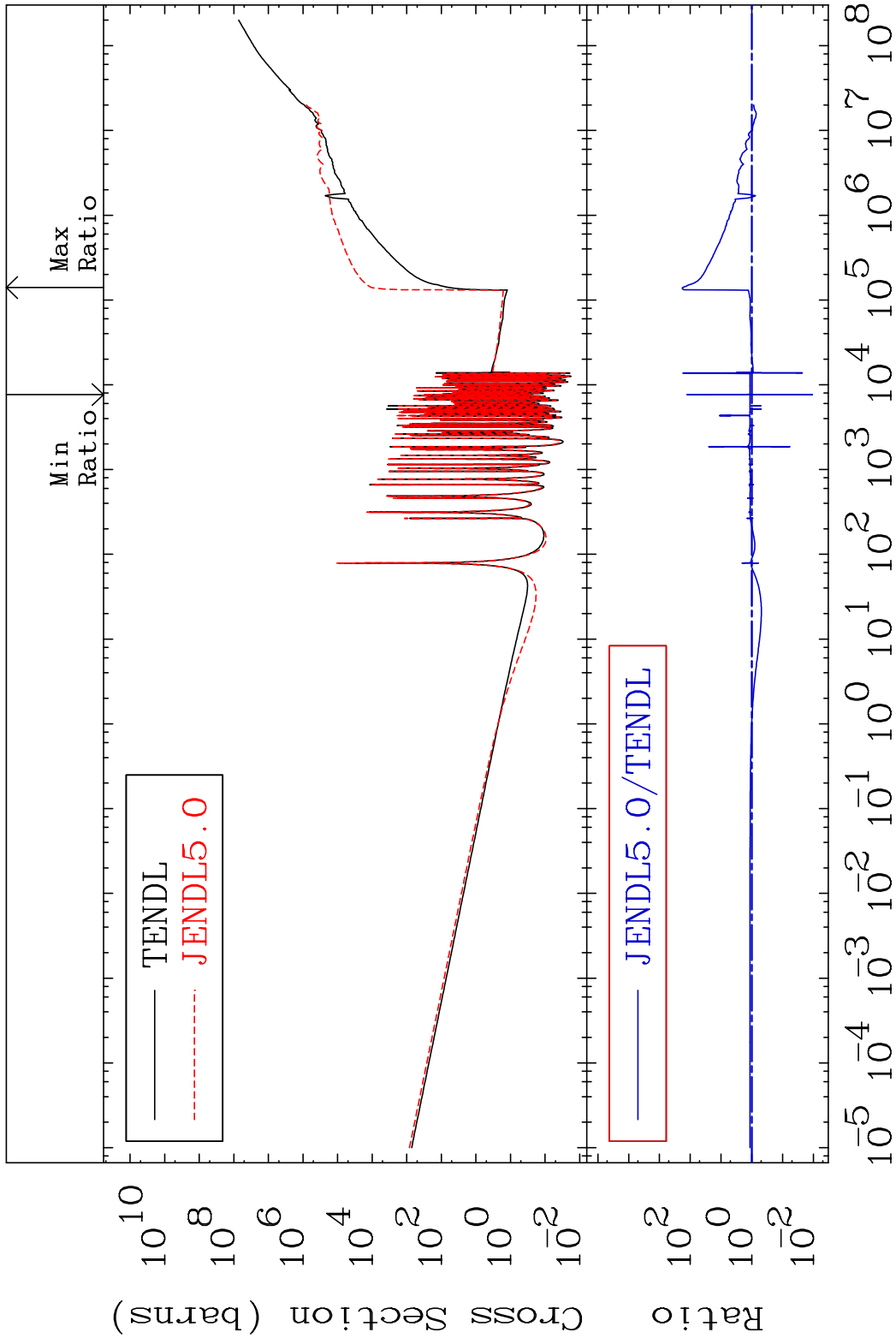


40 Incident Energy (eV) 60-Nd-150

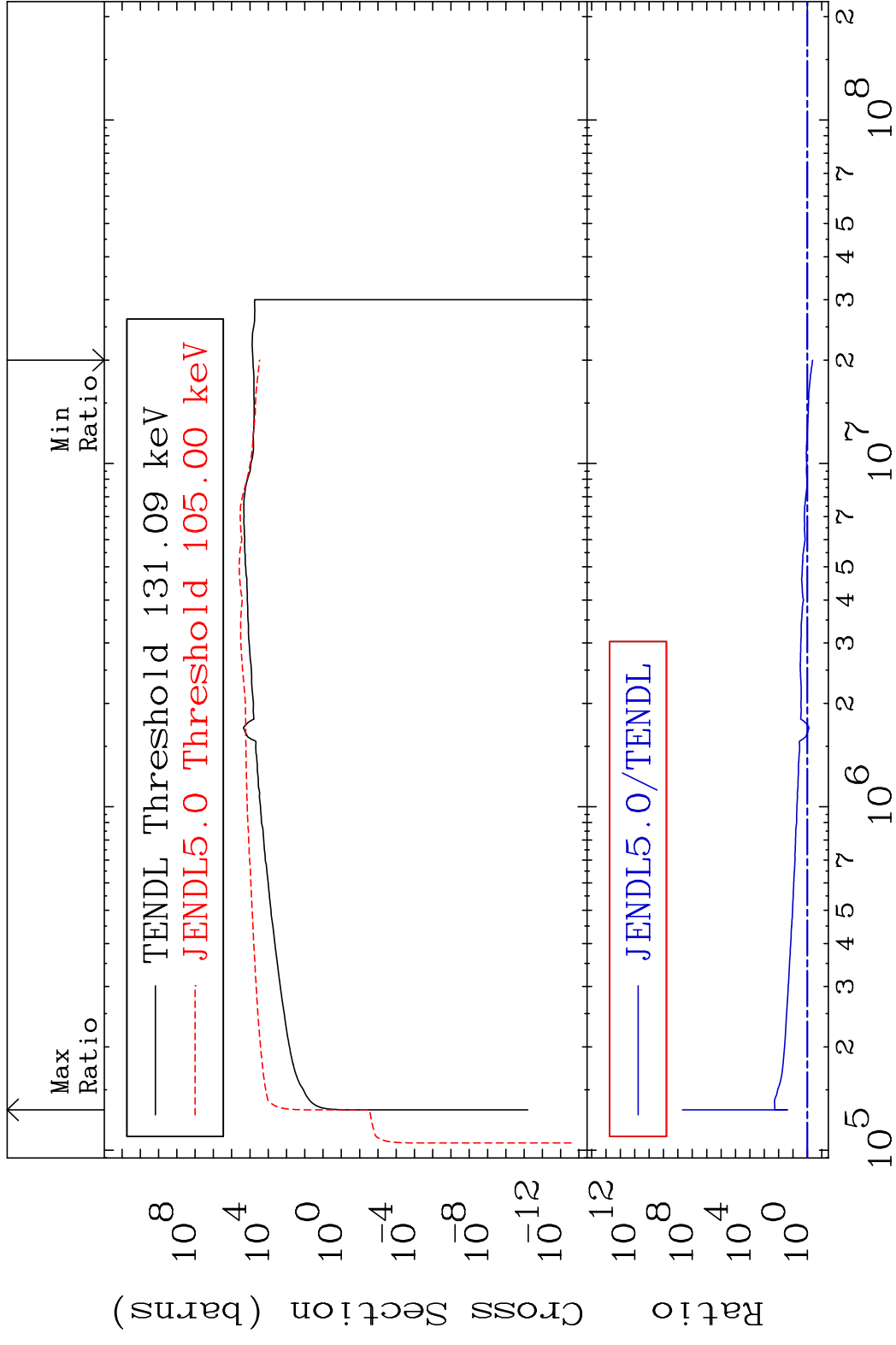
MAT 6049 Kerma elastic 60-Nd-150  
 Cross Section -100.0 To 9999. %



MAT 6049 Kerma non-elastic (all but mt2) 60-Nd-150  
 Cross Section -98.92 To 9999. %

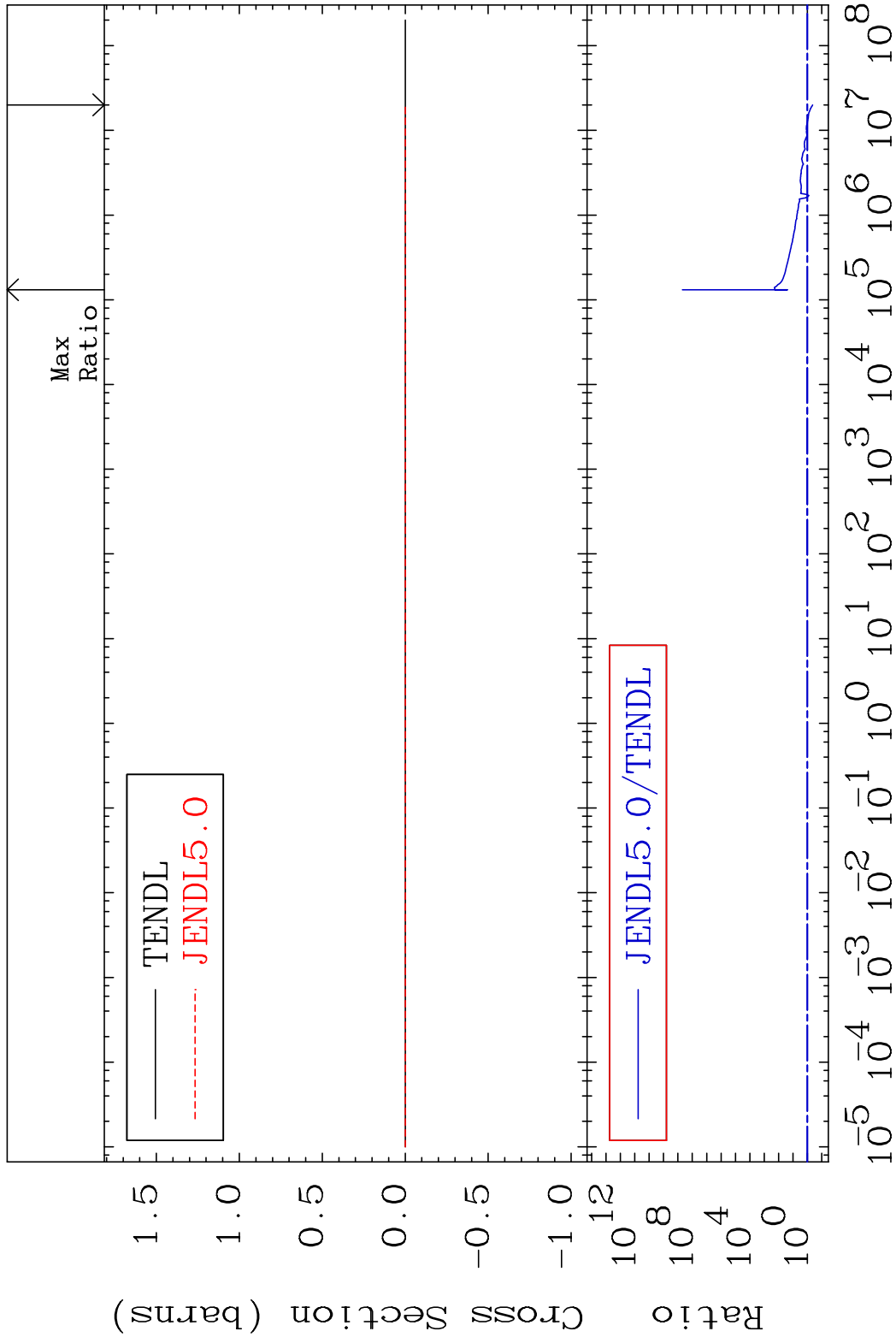


MAT 6049 Kerma inelastic (mt51-91) 60-Nd-150  
 Cross Section -56.92 To 9999. %



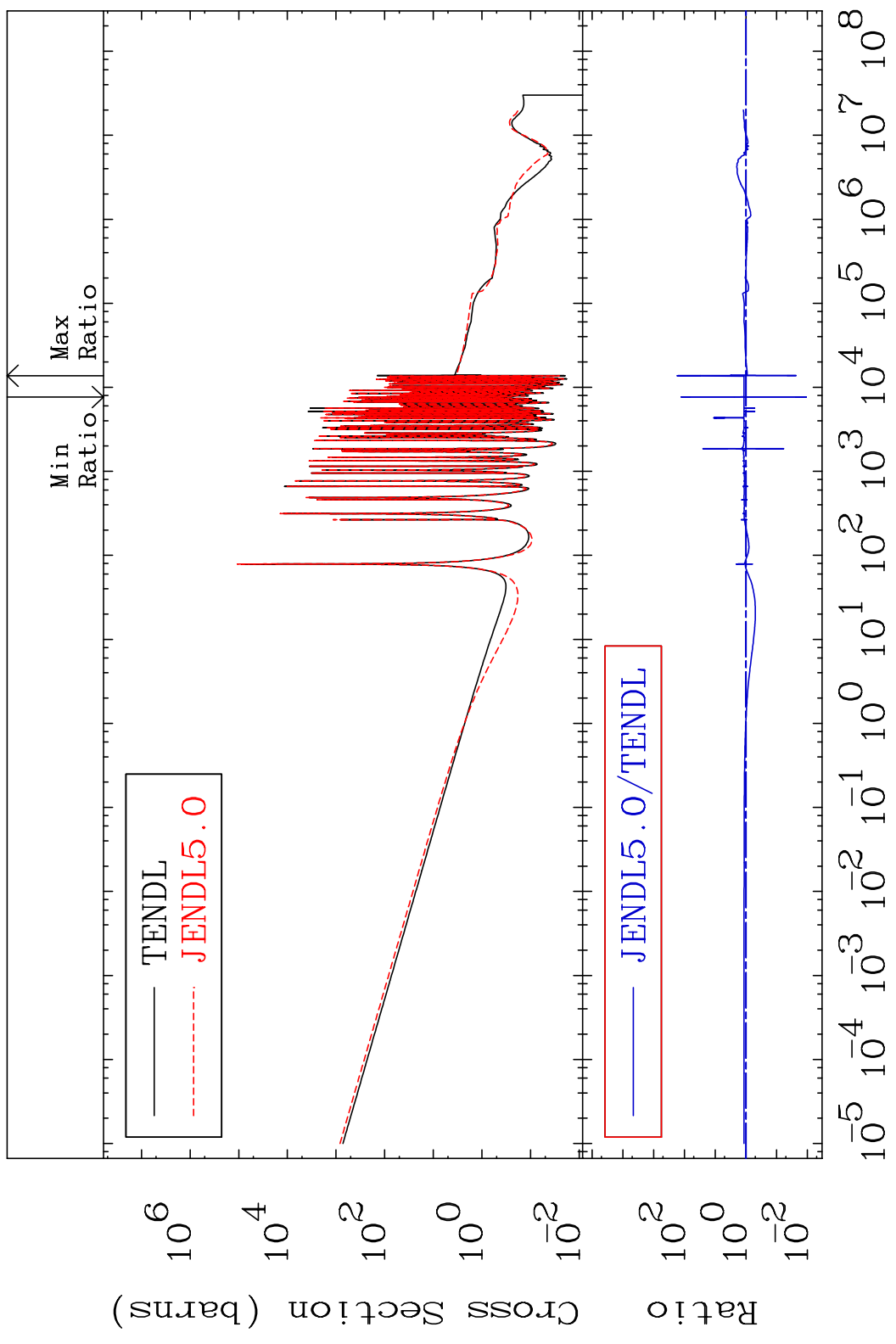
43 Incident Energy (eV) 60-Nd-150

MAT 6049 Kerma fission (mt18 or mt19-20-21-38)  $^{60}\text{Nd}$ -150  
 Cross Section -56.92 To 9999. %



MAT 6049

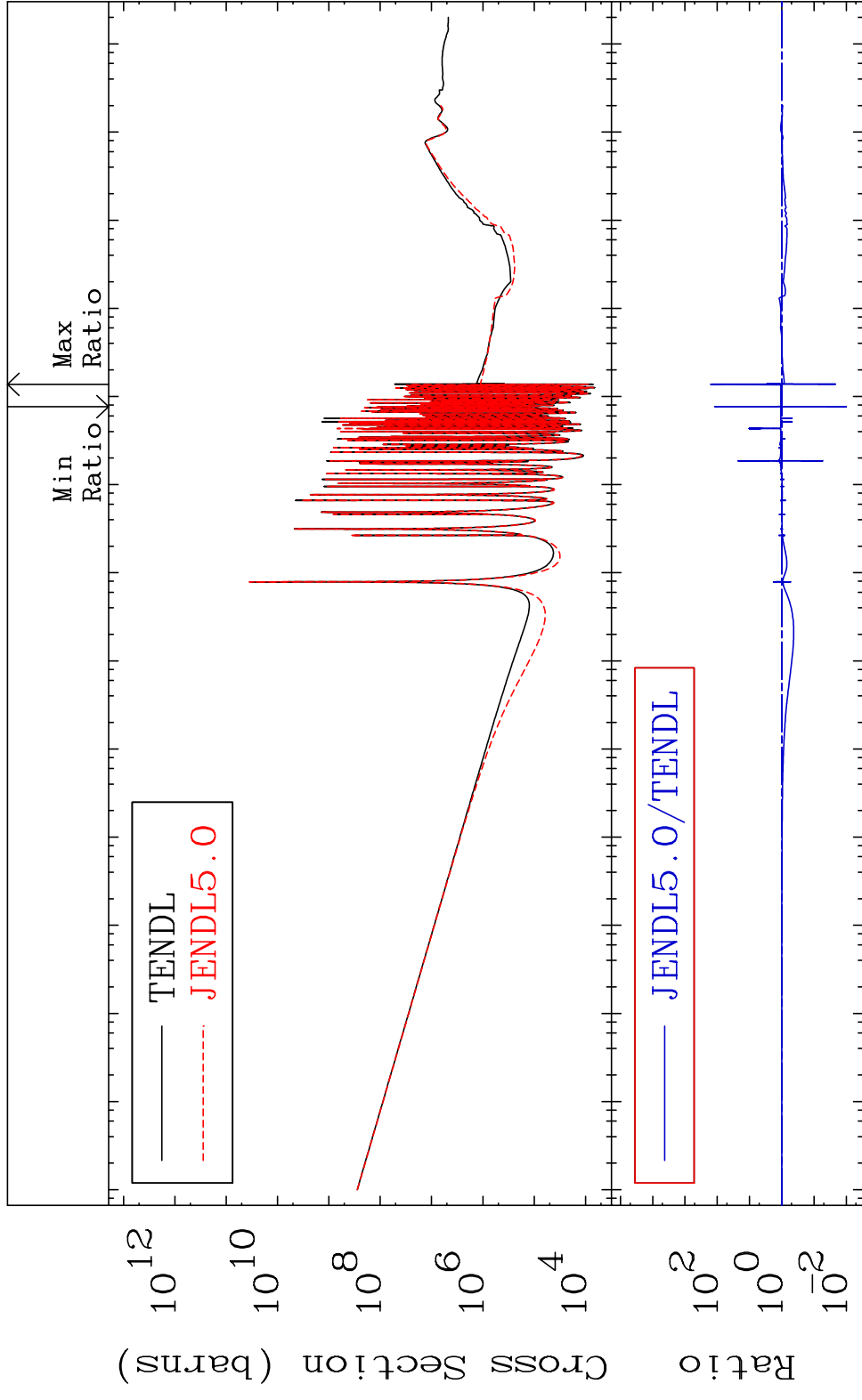
Kerma capture (mt102) 60-Nd-150  
Cross Section -98.92 To 9999. %



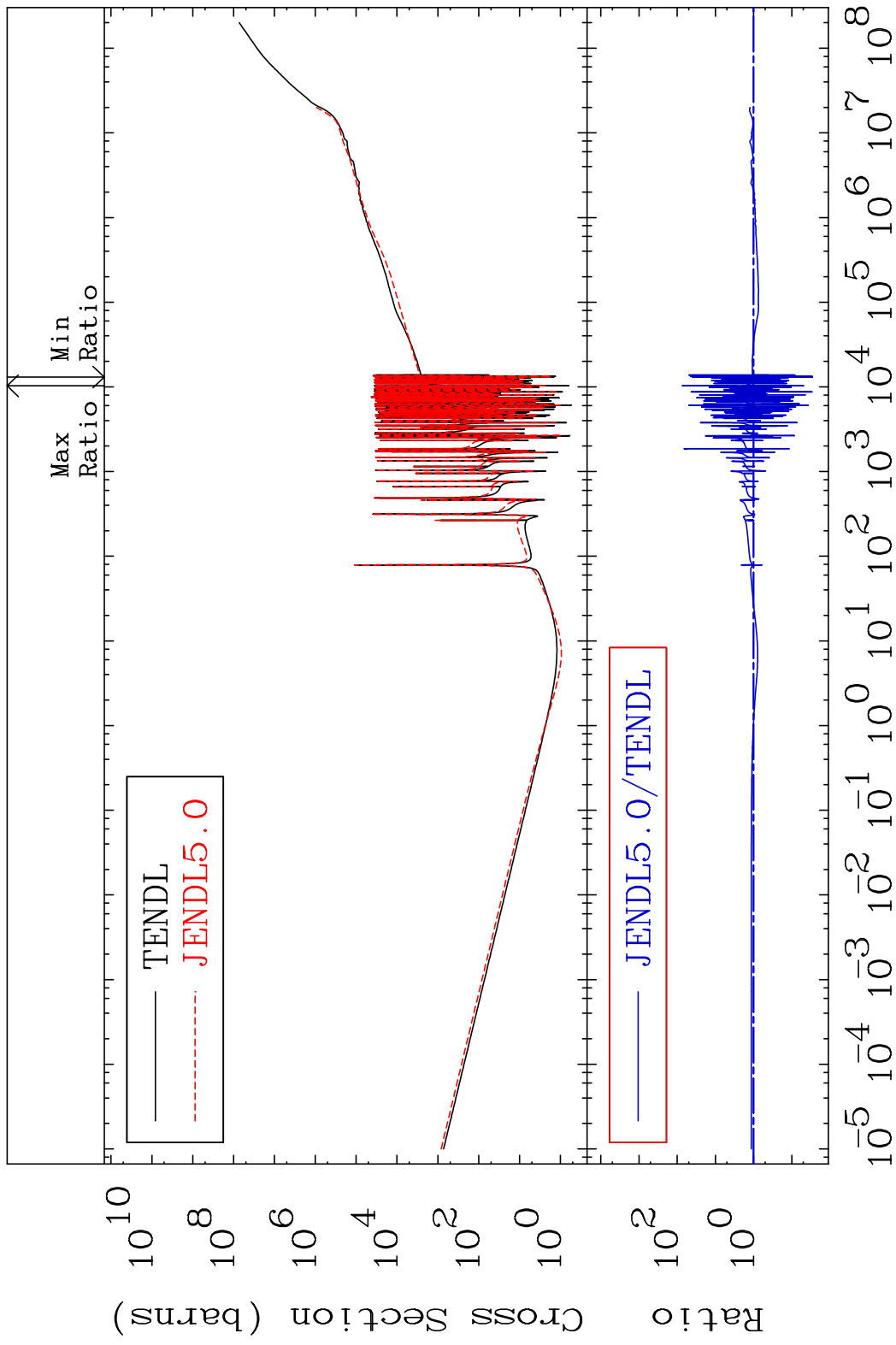
45

Incident Energy (eV) 60-Nd-150

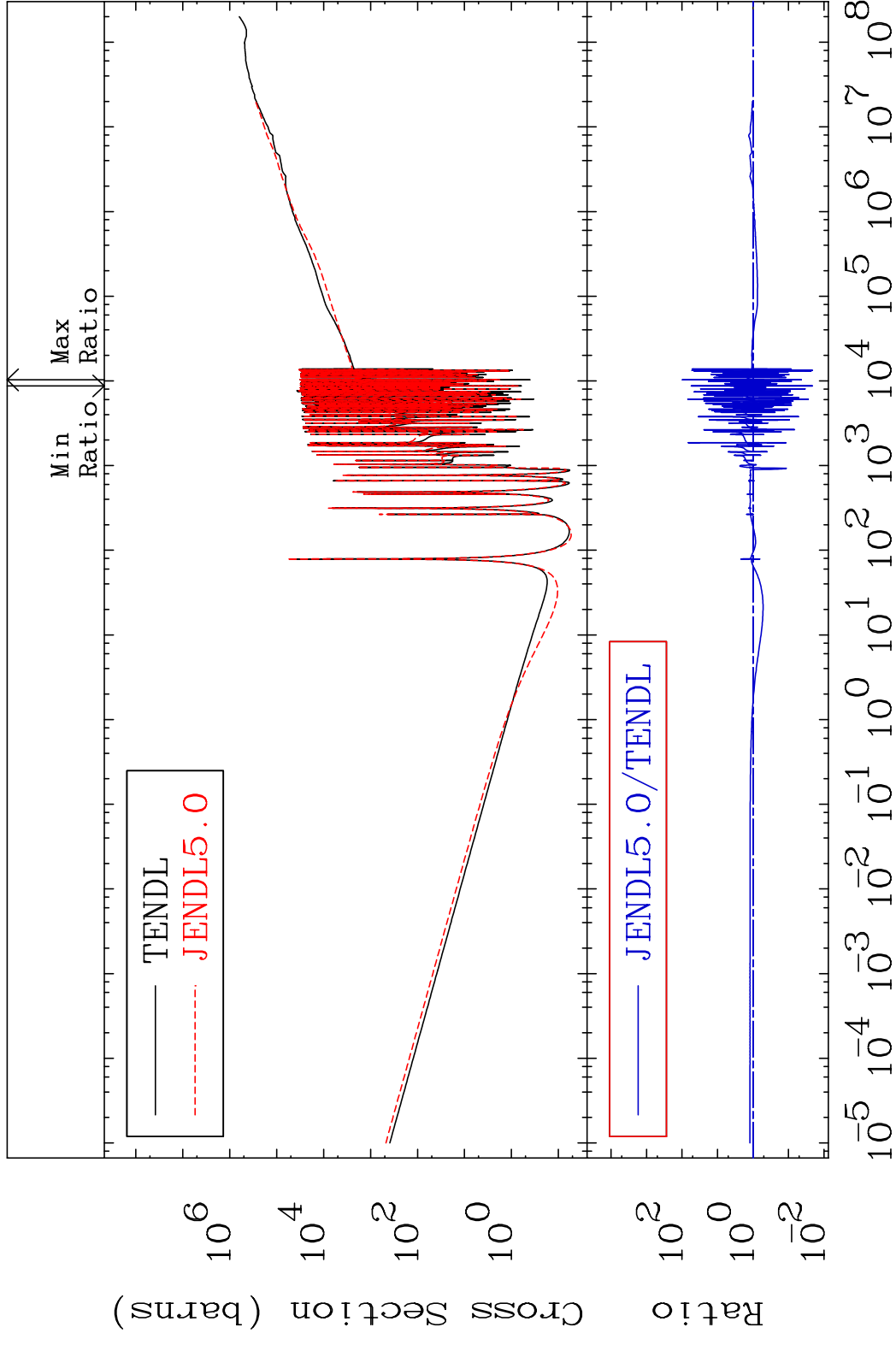
MAT 6049 Total photon (eV-barns) 60-Nd-150  
Cross Section -99.00 To 9999. %



MAT 6049 Total kinematic kerma (high limit) 60-Nd-150  
 Cross Section -97.15 To 7237. %



MAT 6049      Dpa total (eV-barns)      60-Nd-150  
 Cross Section      -97.90 To 9689. %

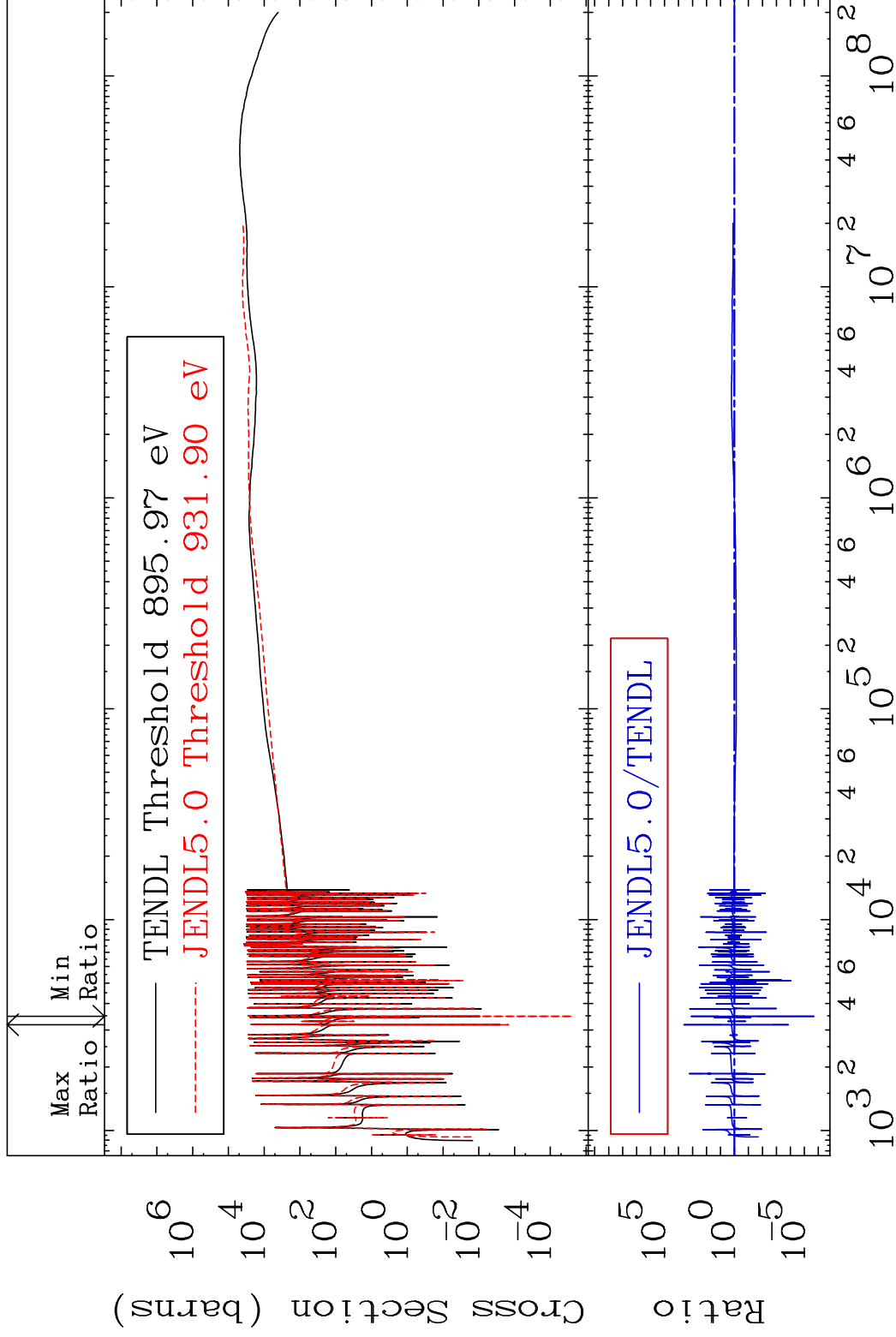


MAT 6049

Dpa elastic (mt2)

60-Nd-150

Cross Section -100.0 To 9999. %

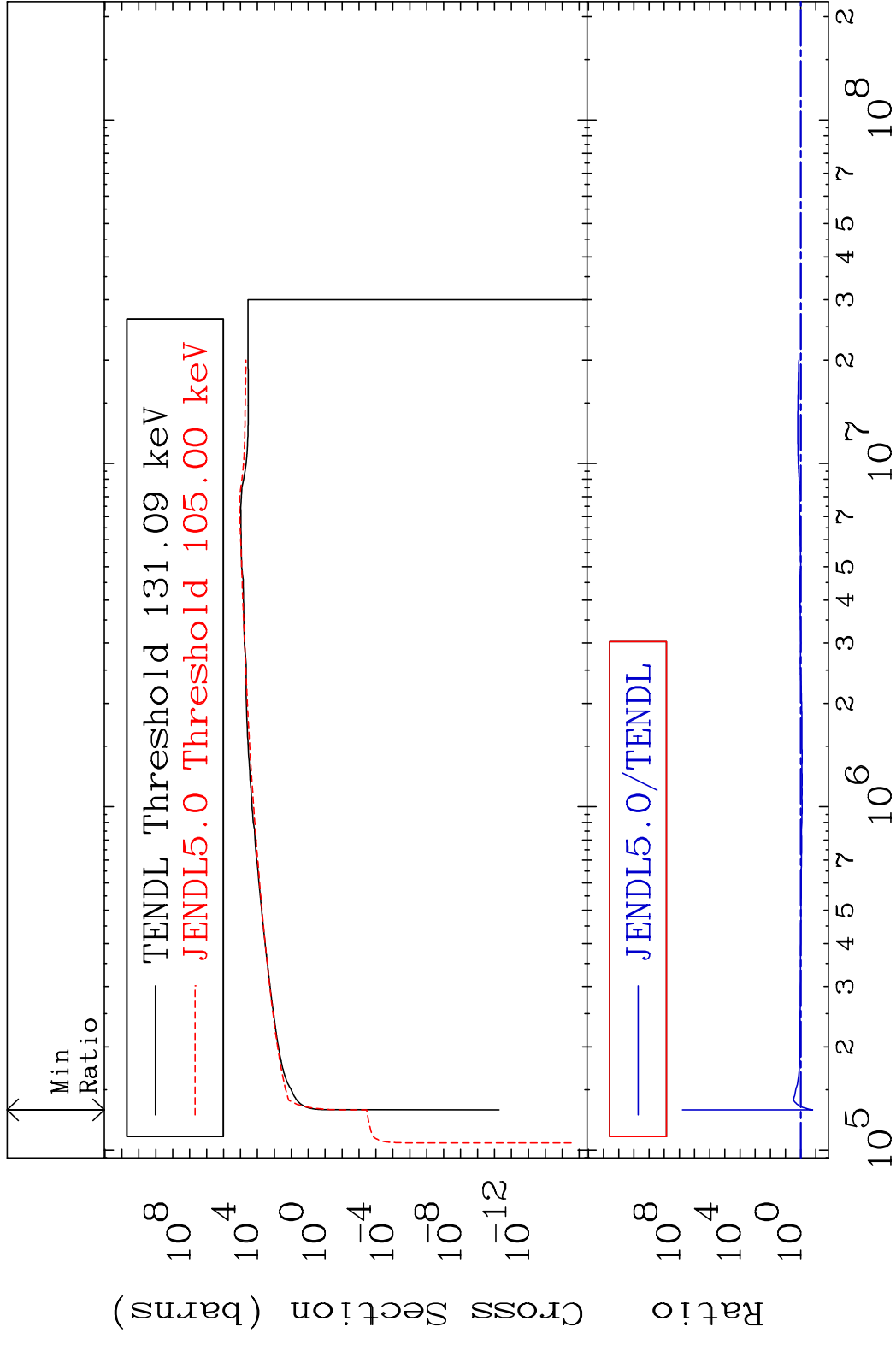


49

Incident Energy (eV)

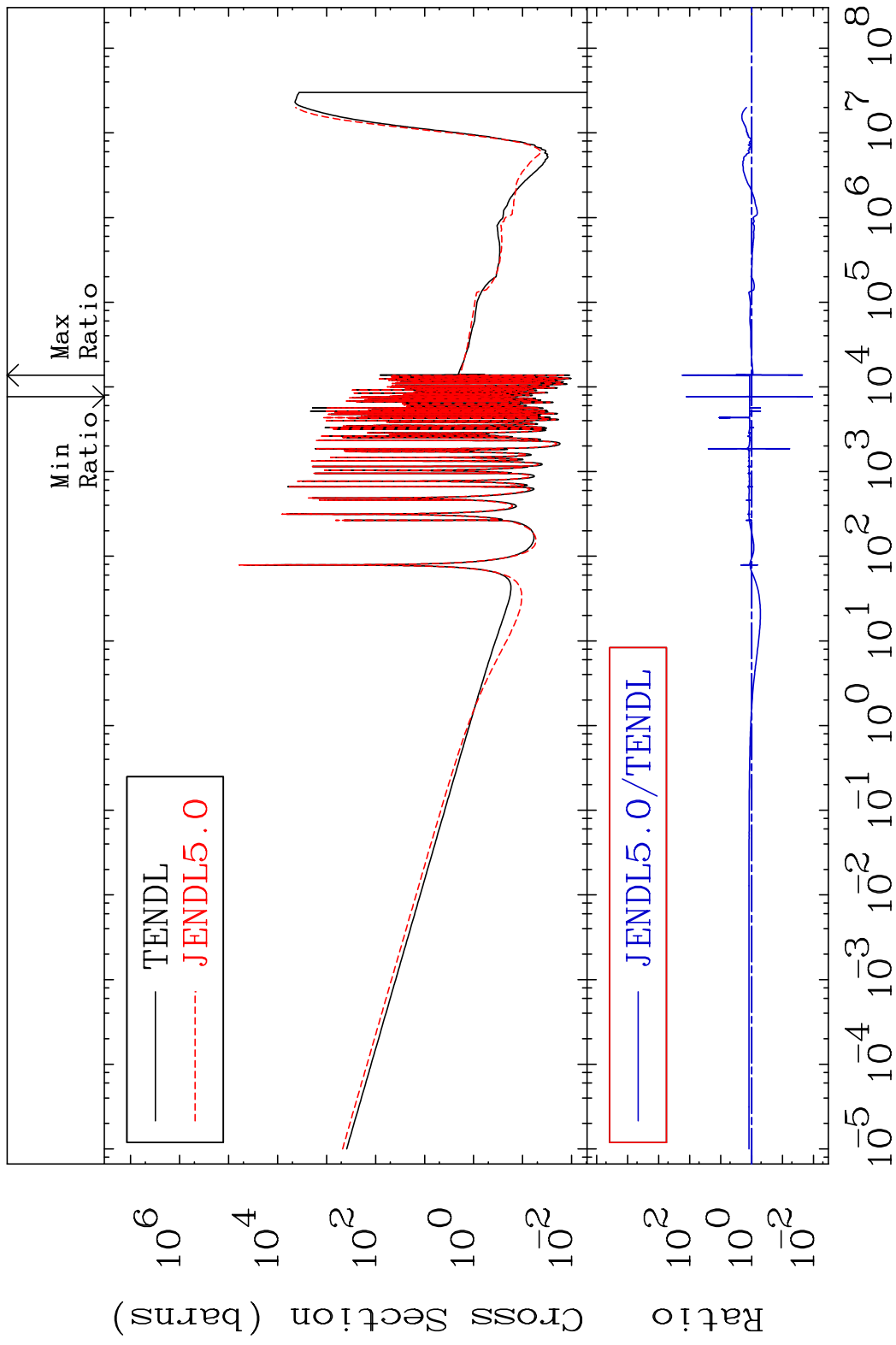
60-Nd-150

MAT 6049      Dpa inelastic (mt51-91)      60-Nd-150  
 Cross Section      -83.59 To 9999. %

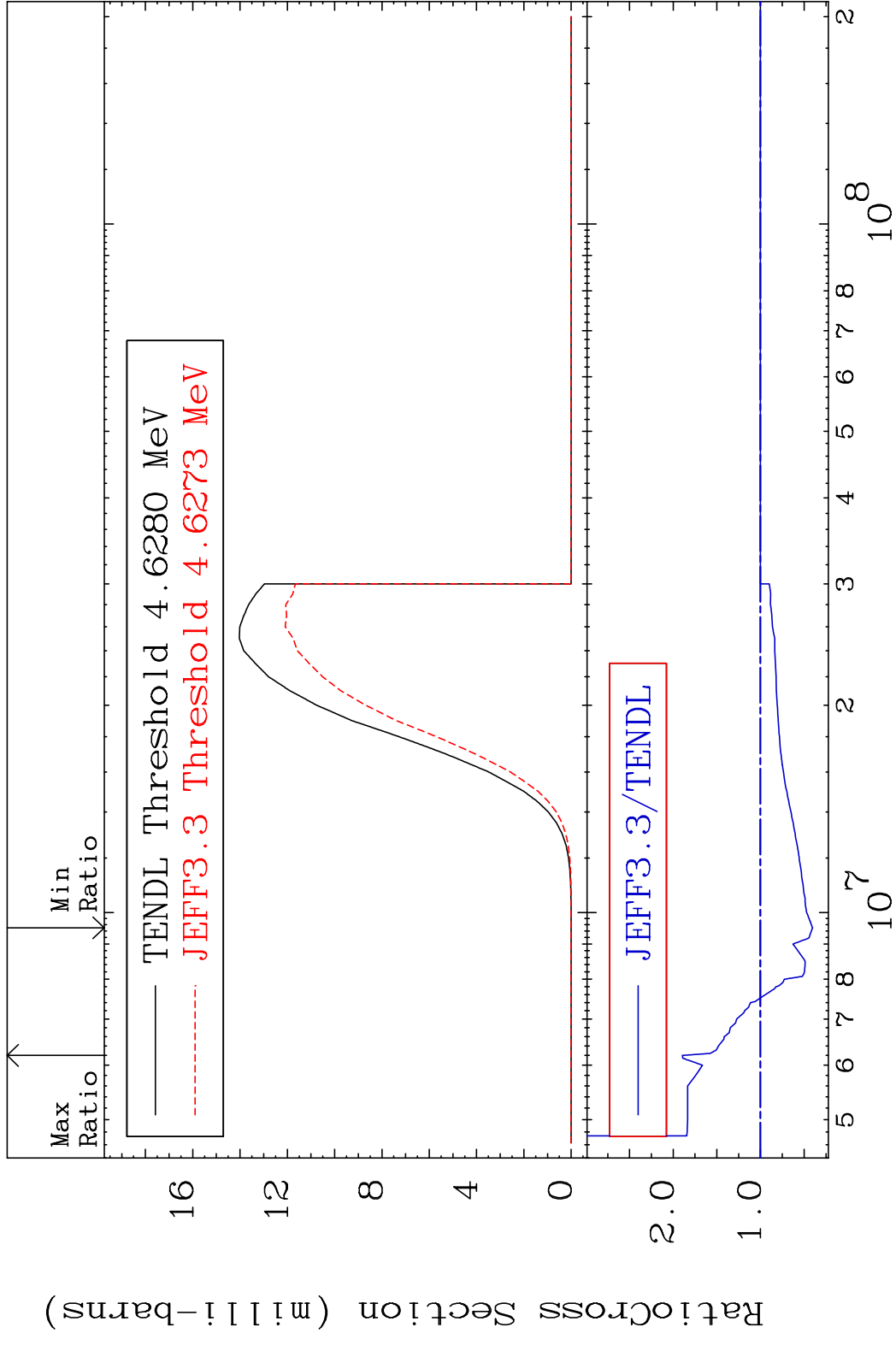


50      Incident Energy (eV)      60-Nd-150

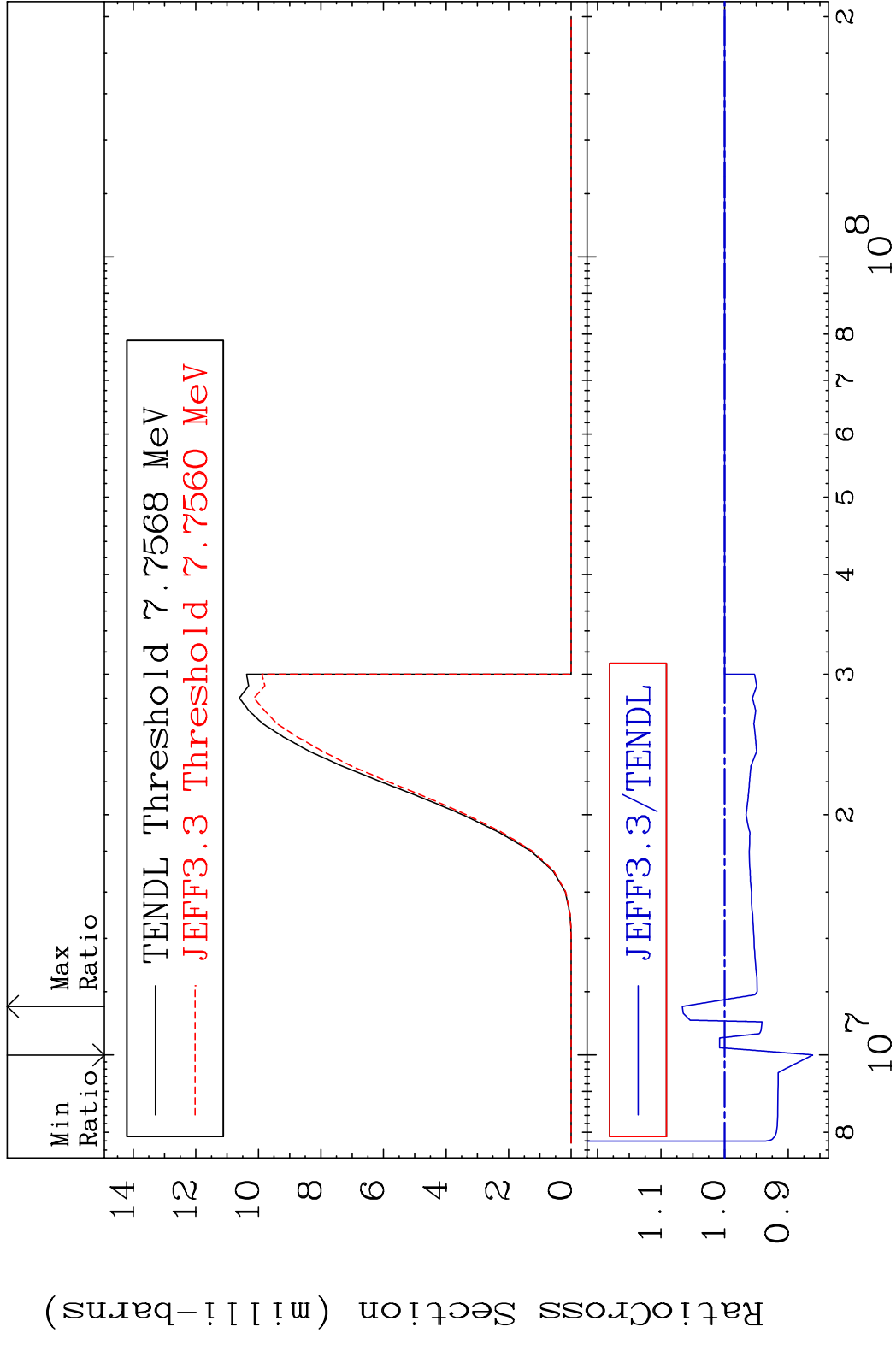
MAT 6049 Dpa disappearance (mt102 -120) 60-Nd-150  
 Cross Section -98.92 To 9999. %



MAT 6049 (n,p) 60-Nd-150  
 Cross Section -59.65 To 89.50 %



MAT 6049 (n,d) 60-Nd-150  
 Cross Section -13.84 To 6.647 %

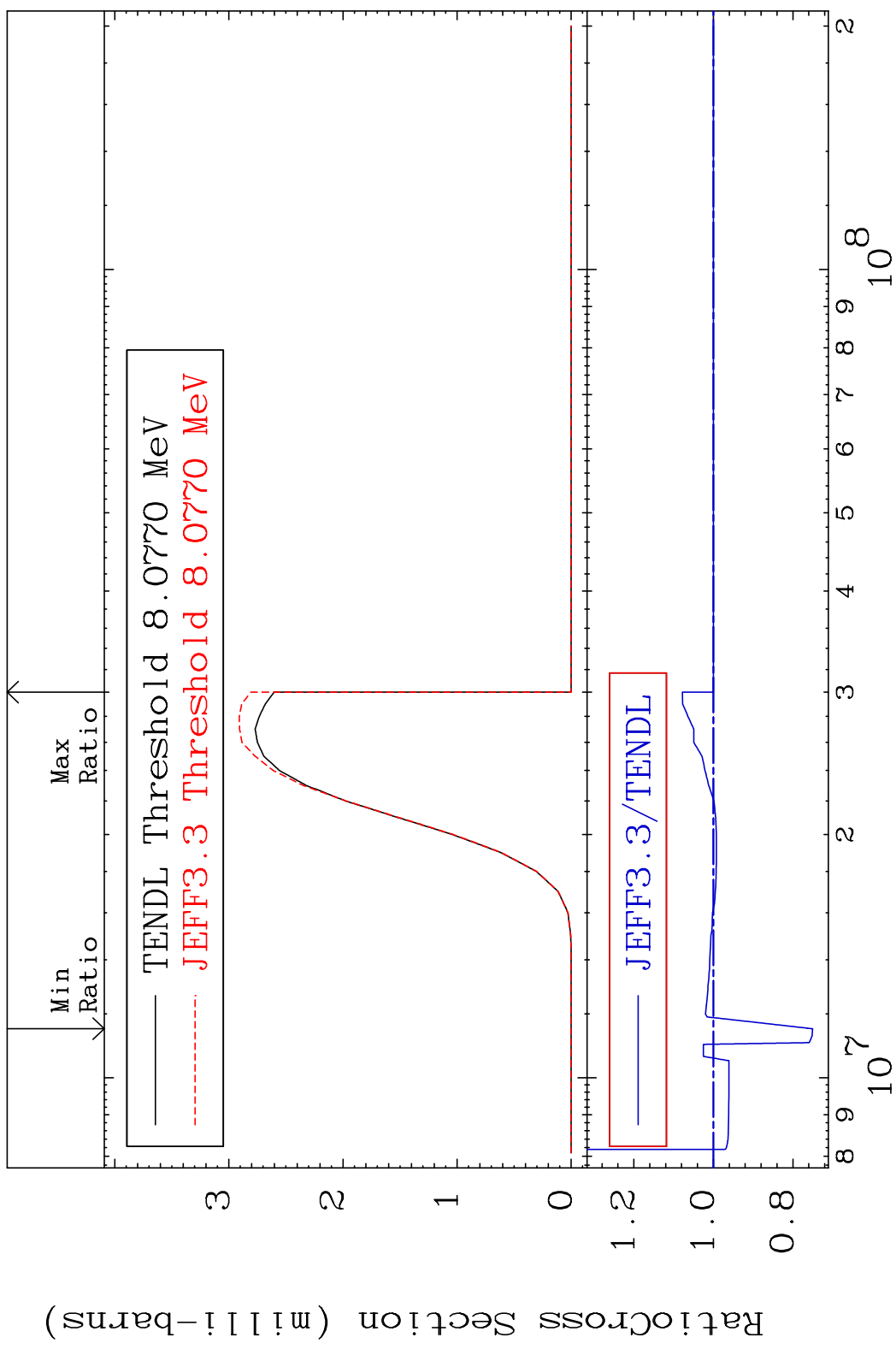


MAT 6049

(n, t)

60-Nd-150

Cross Section -24.95 To 7.802 %

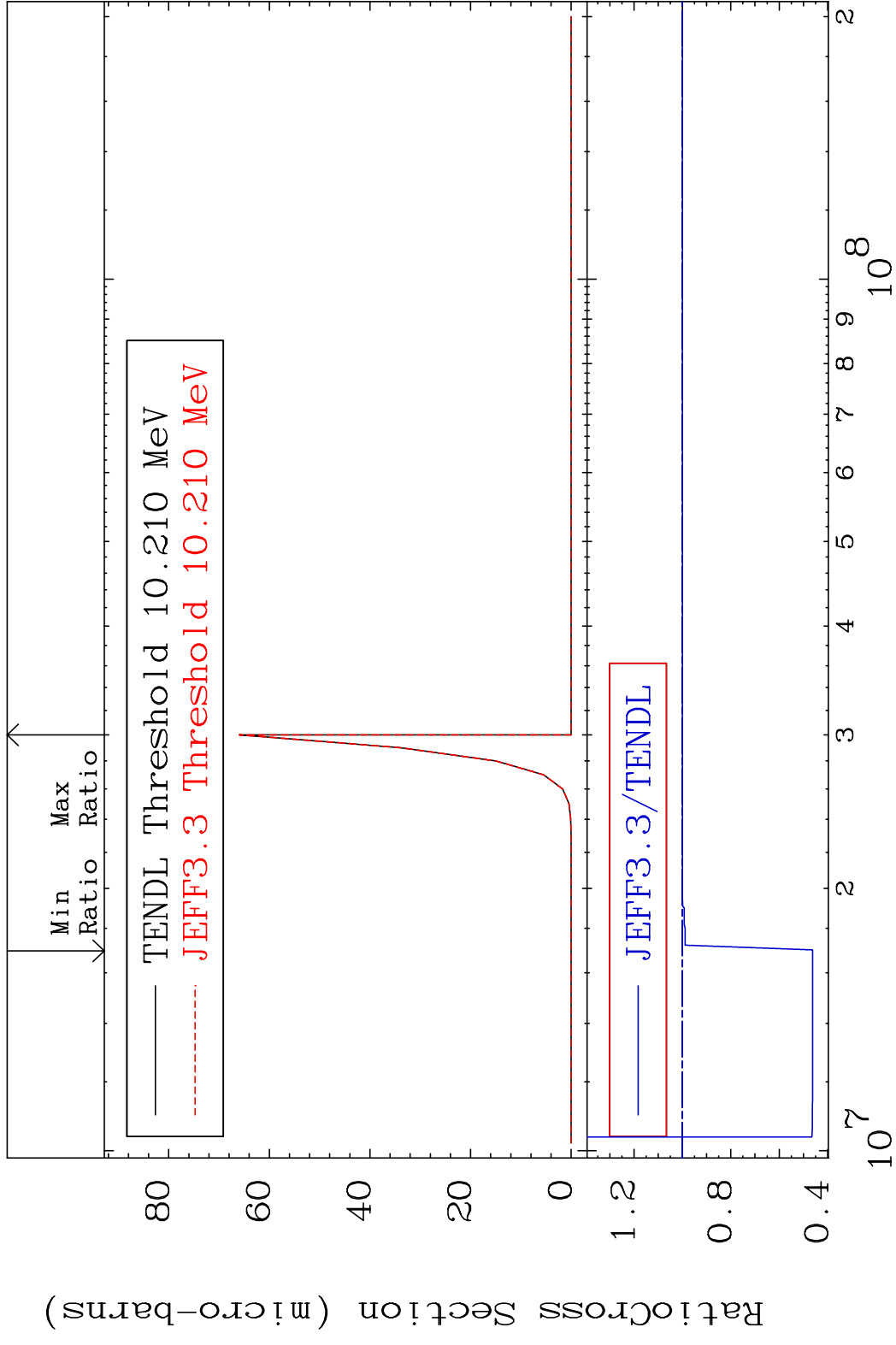


MAT 6049

(n, He-3)

60-Nd-150

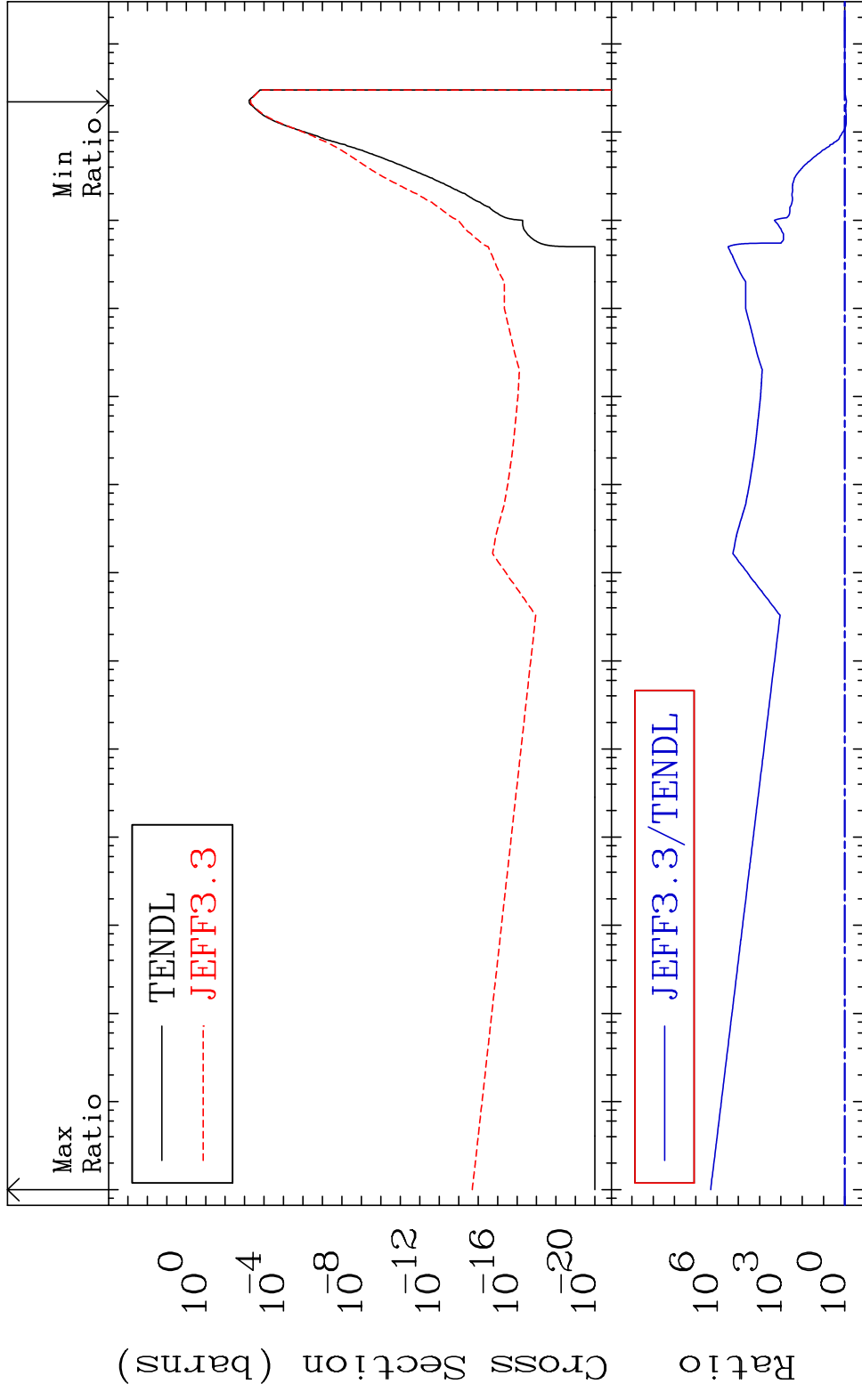
Cross Section -53.78 To 0.025 %



55

60-Nd-150

MAT 6049 (n,  $\alpha$ ) 60-Nd-150  
 Cross Section -15.65 To 9999. %

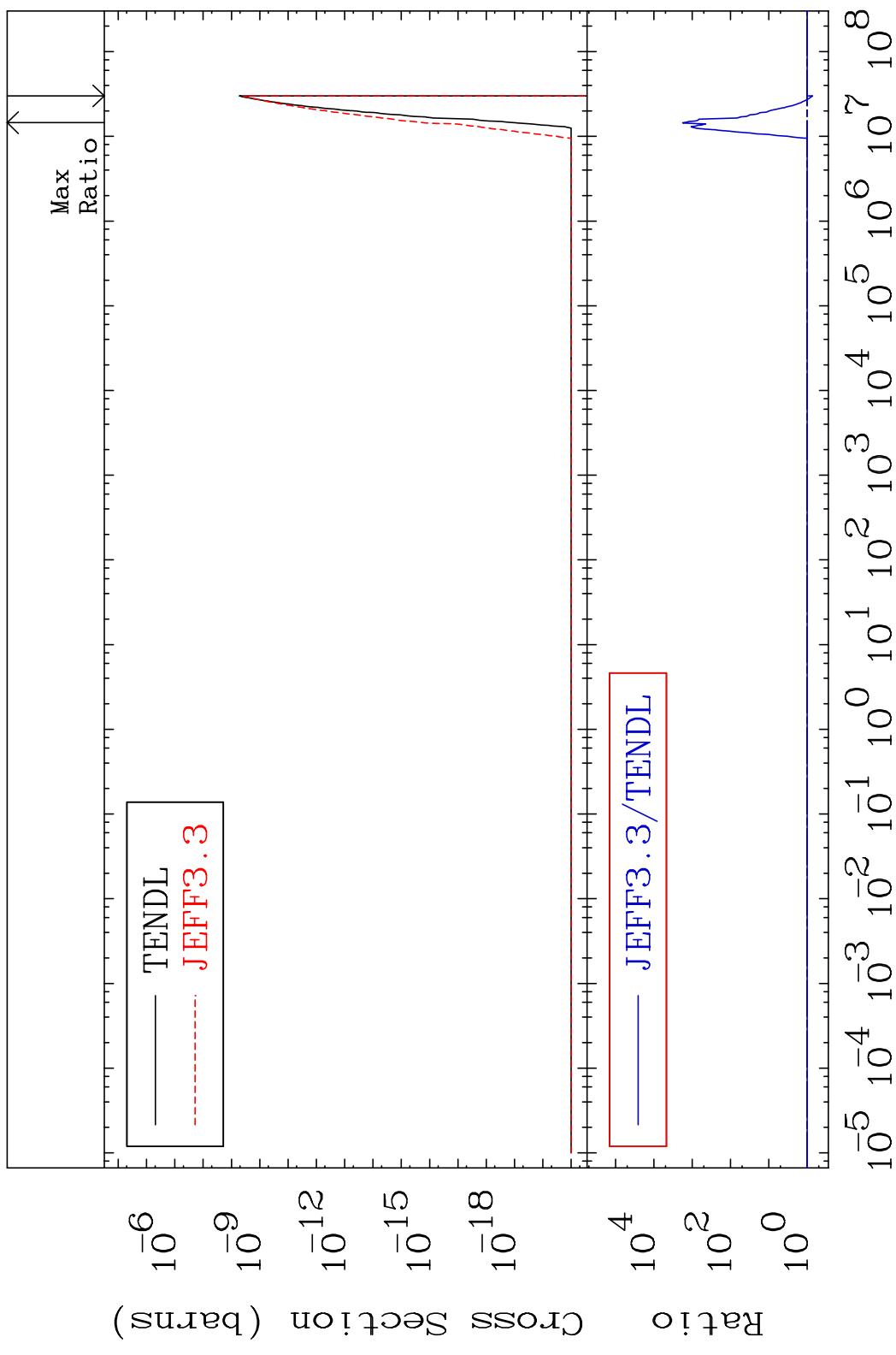


MAT 6049

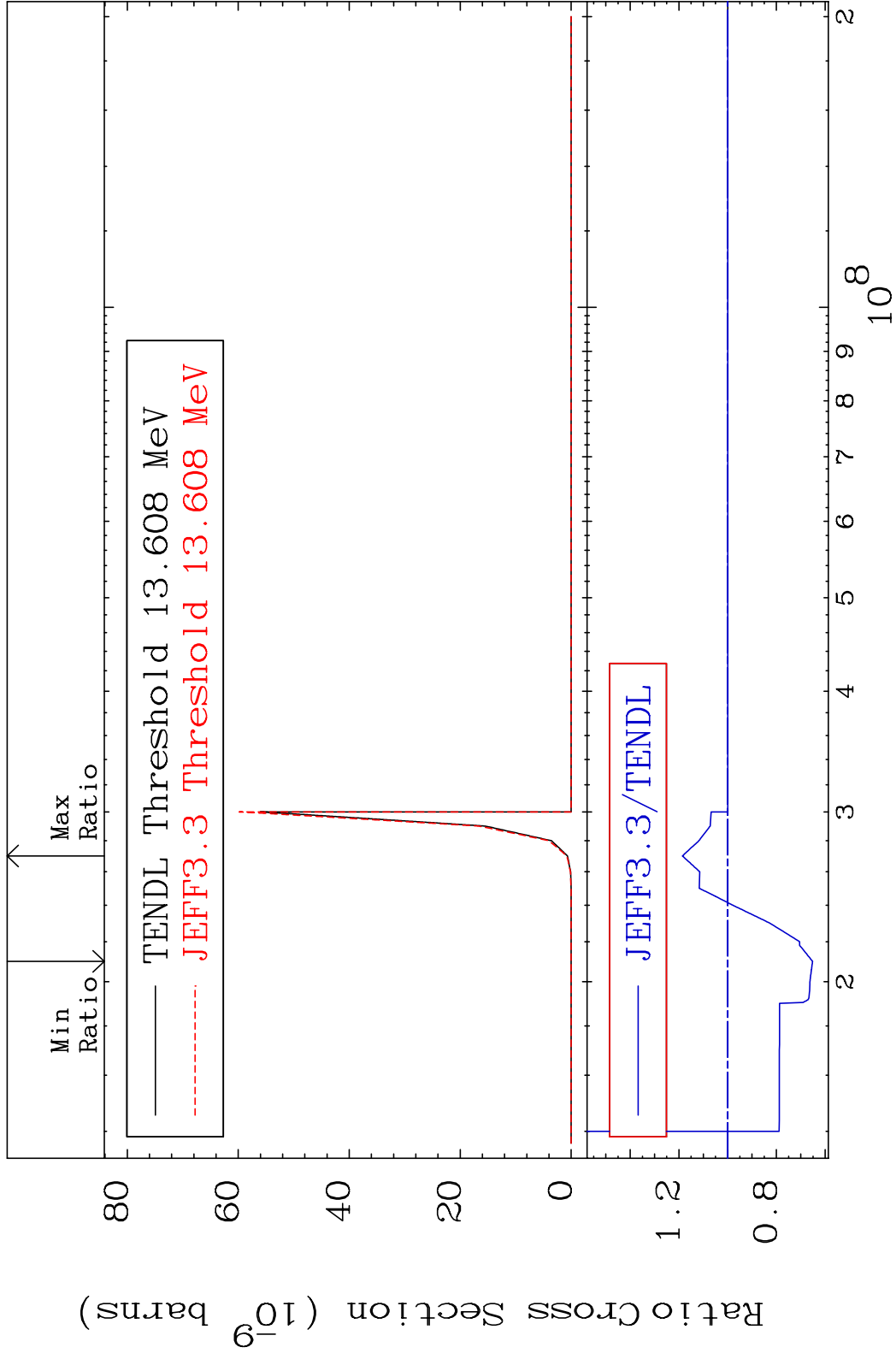
(n, 2α)

60-Nd-150

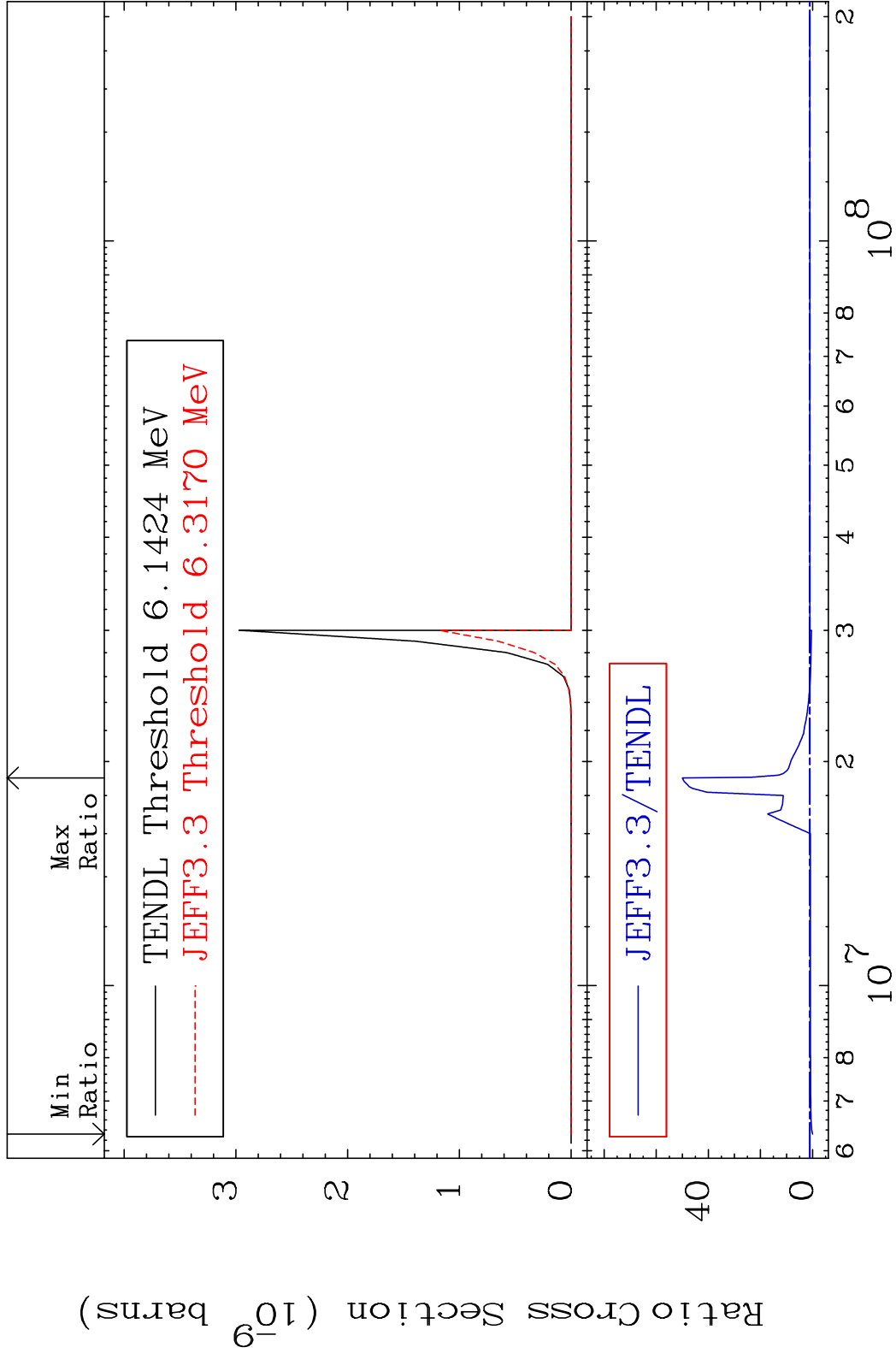
Cross Section -27.35 To 9999. %



MAT 6049 (n,2p) 60-Nd-150  
 Cross Section -34.83 To 18.60 %



MAT 6049 (n,p)  $\alpha$  60-Nd-150  
 Cross Section -100.0 To 4898. %



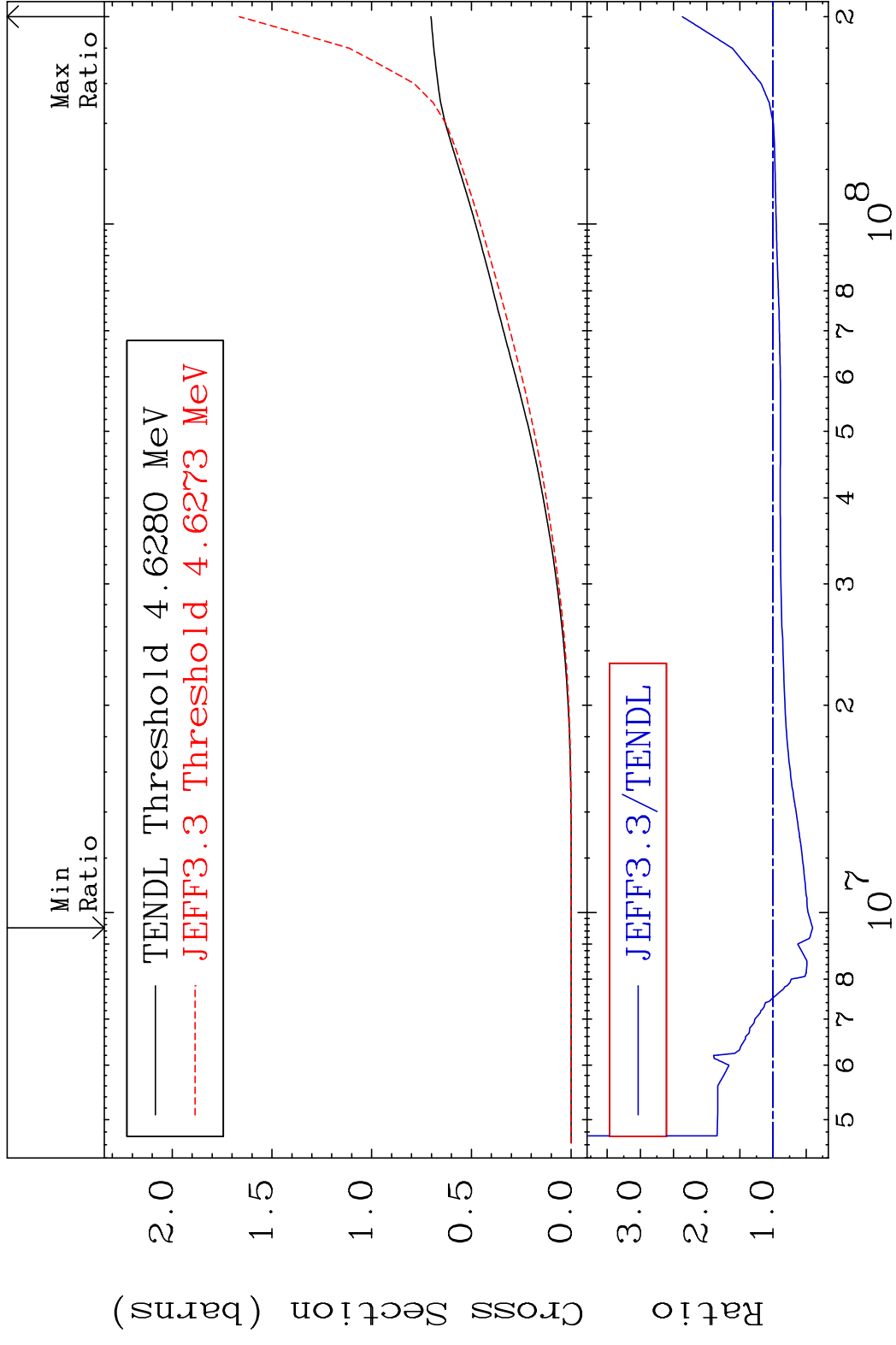
MAT 6049

Hydrogen Production

60-Nd-150

Cross Section

-59.65 To 136.7 %

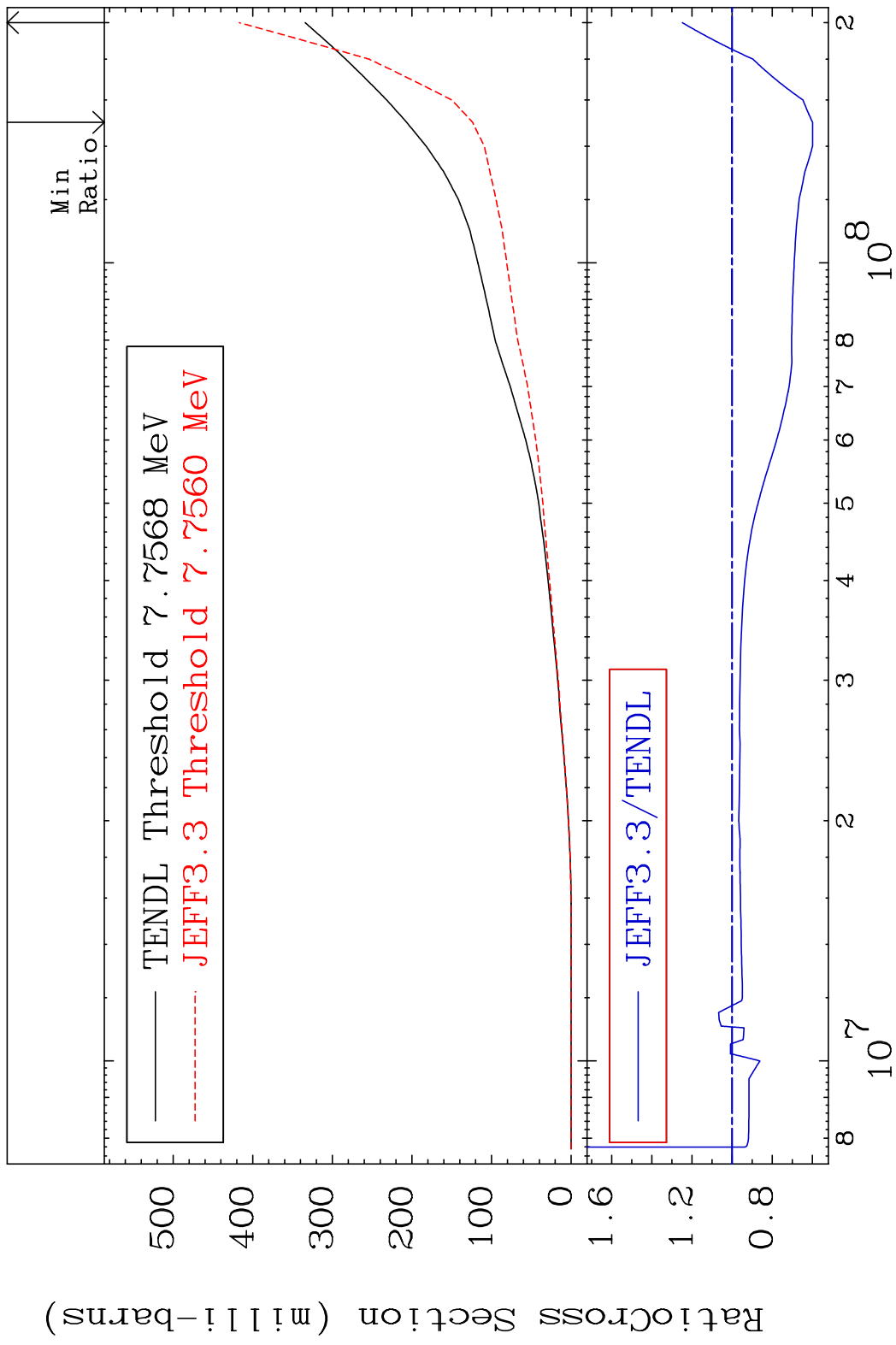


60

Incident Energy (eV)

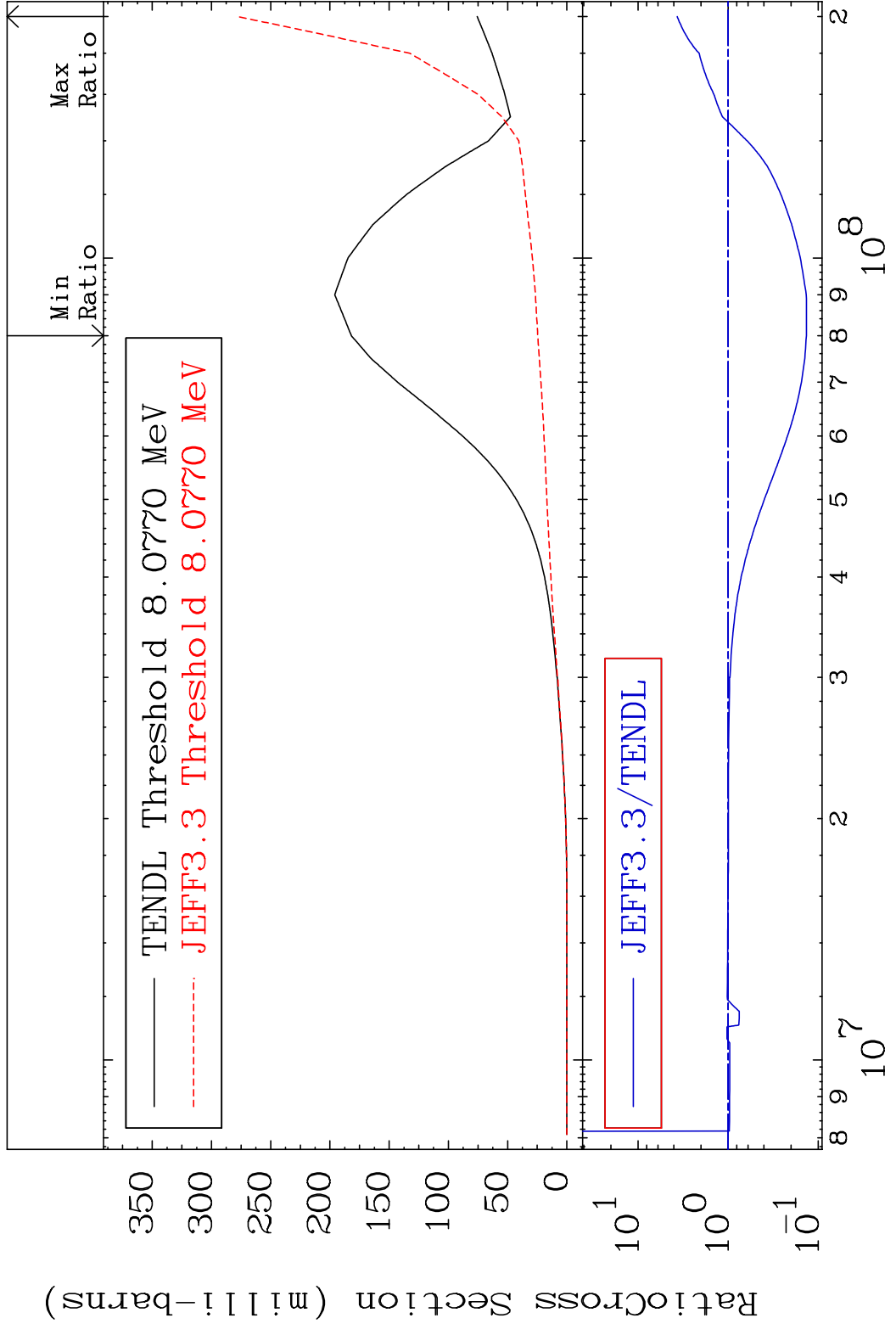
60-Nd-150

MAT 6049 Deuterium Production 60-Nd-150  
 Cross Section -40.09 To 24.76 %



61 Incident Energy (eV) 60-Nd-150

MAT 6049 Tritium Production 60-Nd-150  
 Cross Section -86.49 To 267.1 %



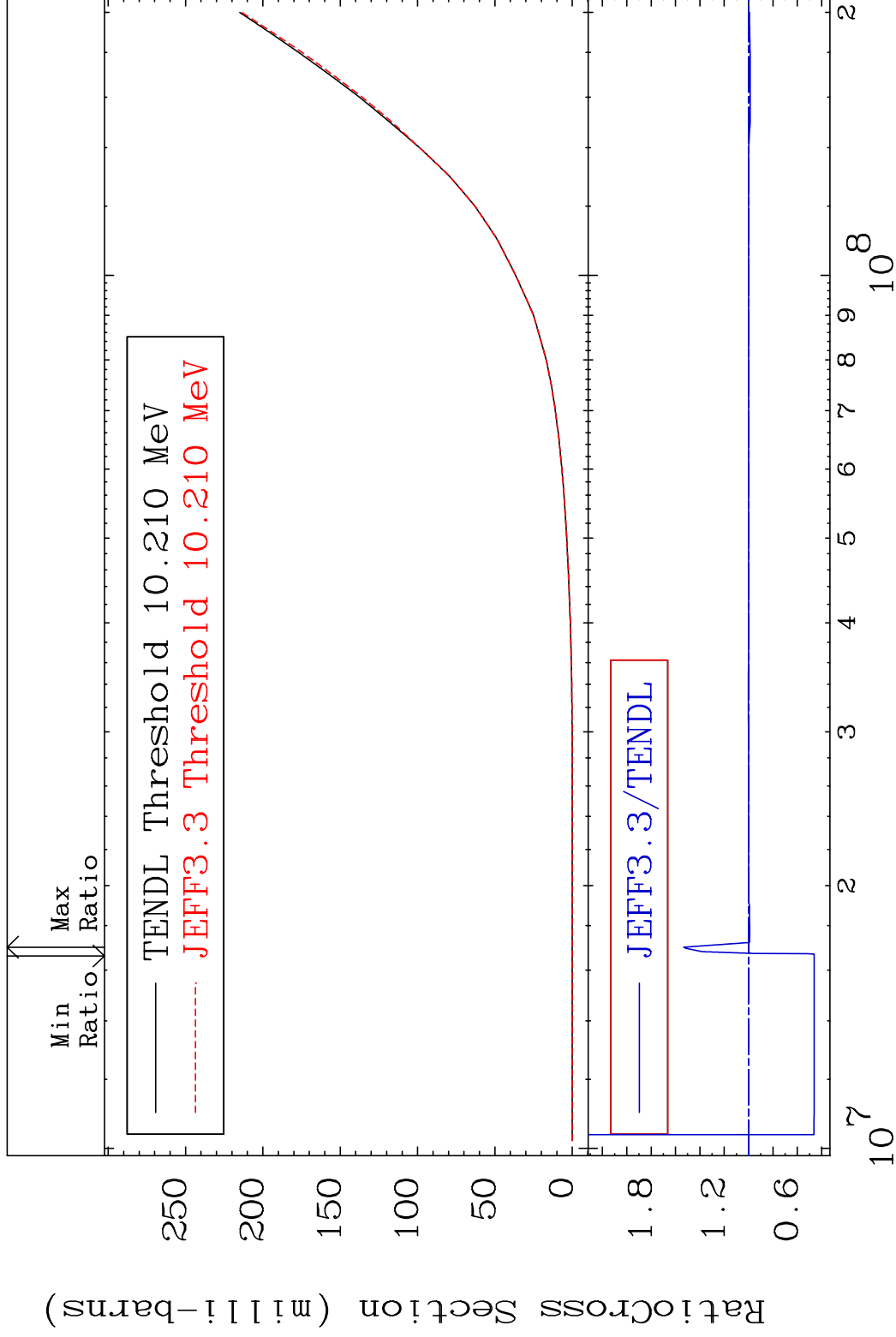
62 Incident Energy (eV) 60-Nd-150

MAT 6049

He-3 Production

60-Nd-150

Cross Section -53.78 To 53.31 %



63

Incident Energy (eV)

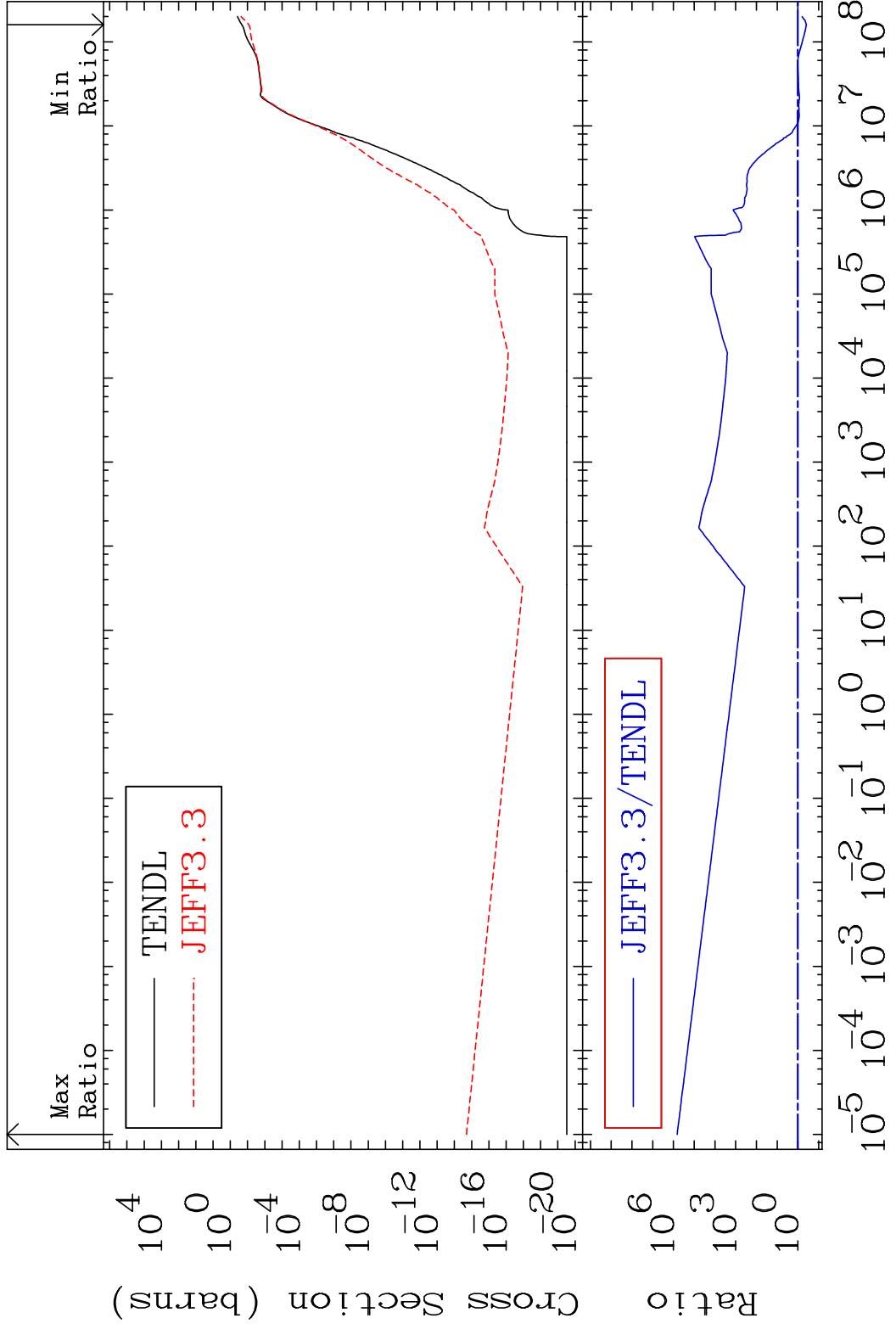
60-Nd-150

MAT 6049

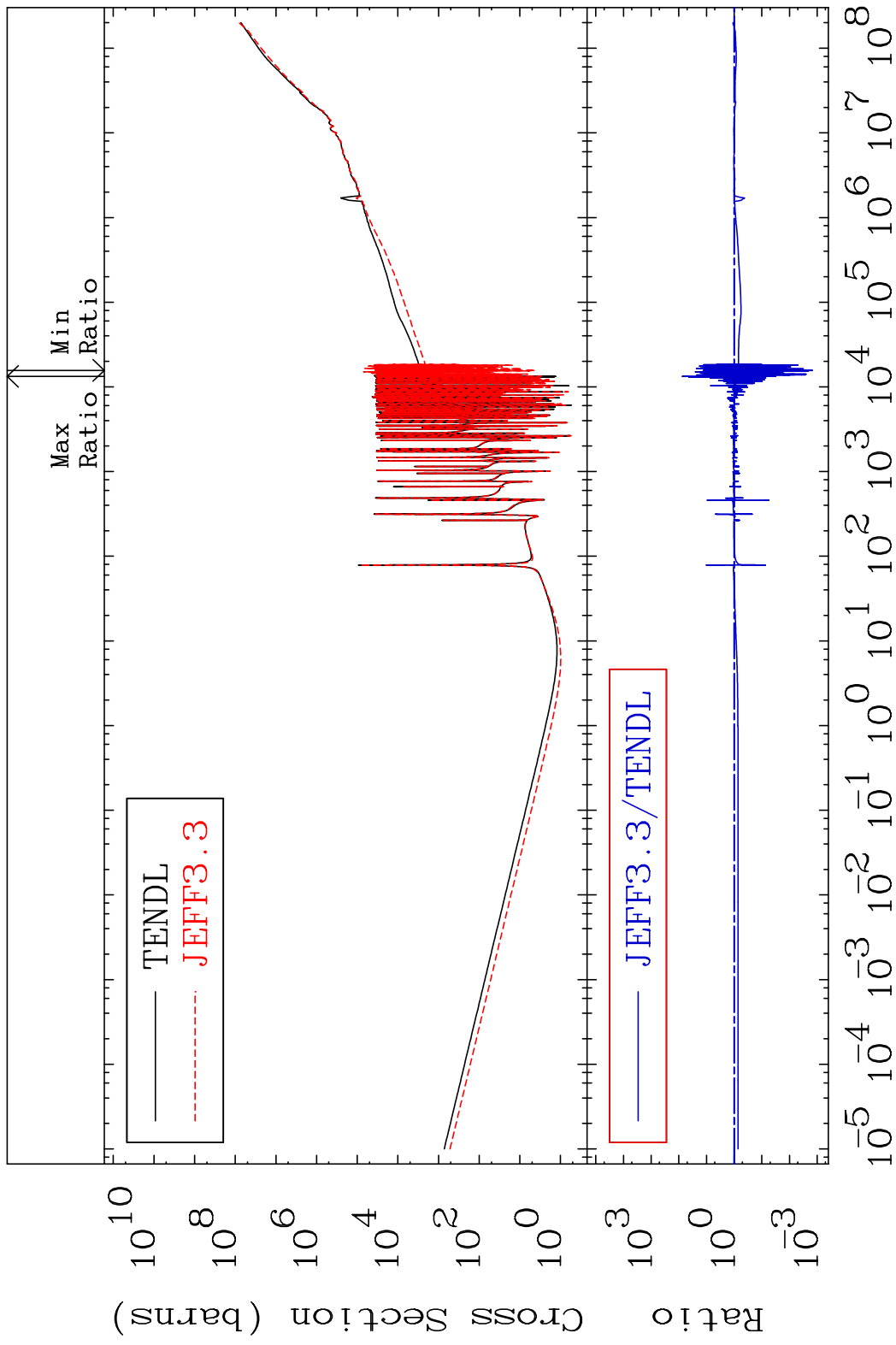
He-4 Production

60-Nd-150

Cross Section -61.05 To 9999. %



MAT 6049 Kerma total (eV-barns) 60-Nd-150  
 Cross Section -99.85 To 7334. %

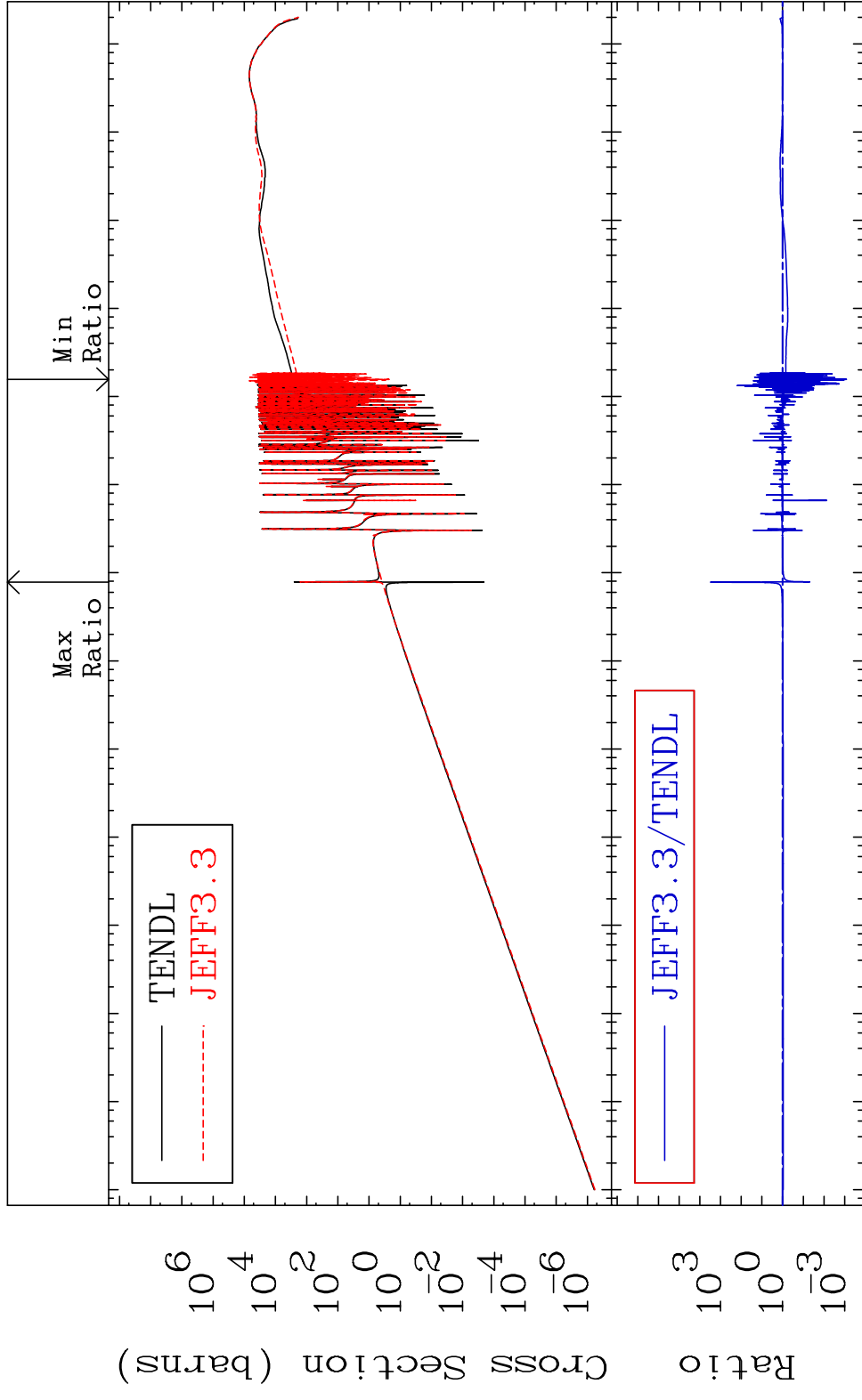


65 Incident Energy (eV) 60-Nd-150

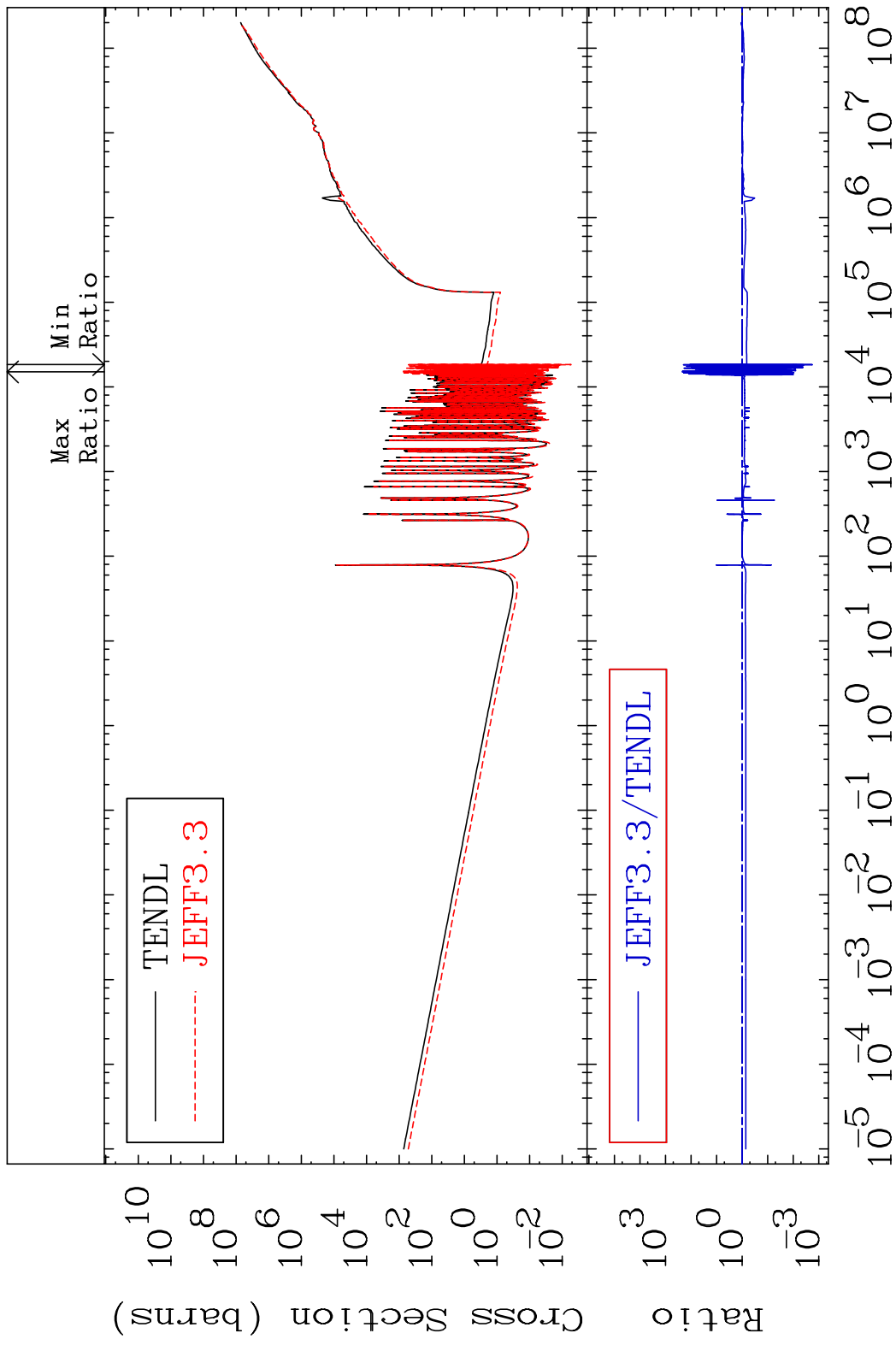
MAT 6049

Kerma elastic  
Cross Section

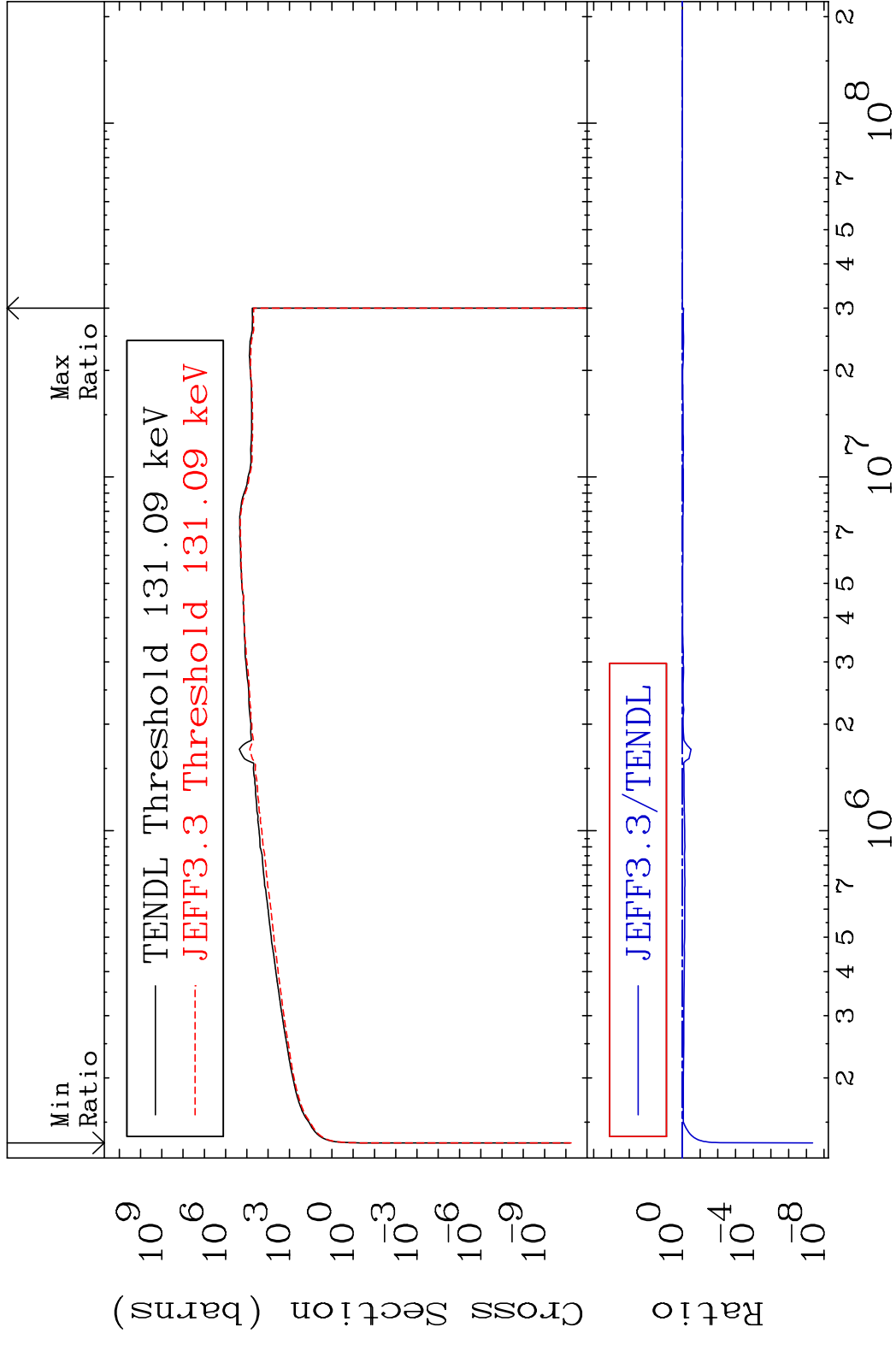
60-Nd-150  
-99.92 To 9999. %



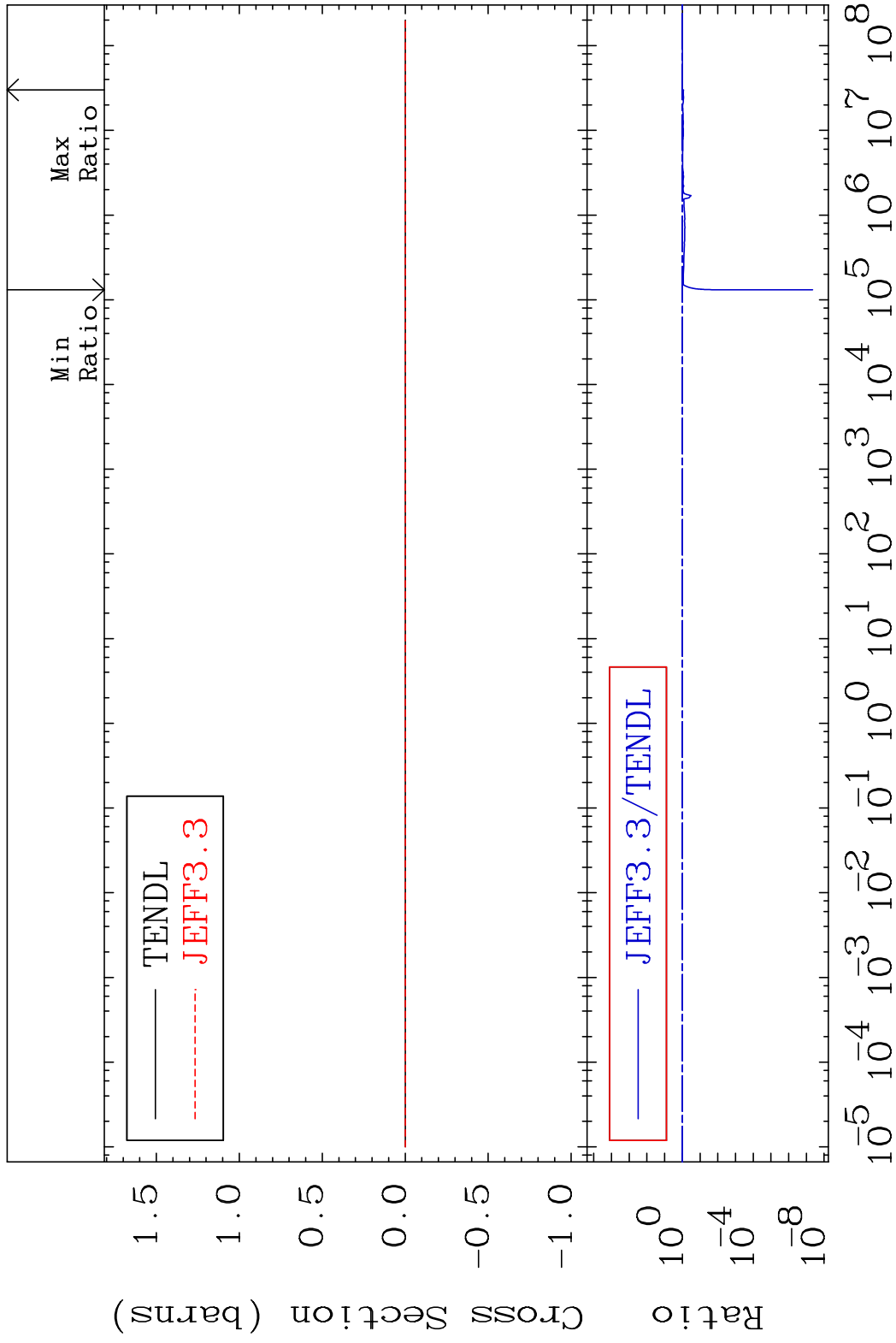
MAT 6049 Kerma non-elastic (all but mt2) 60-Nd-150  
 Cross Section -99.83 To 9999. %



MAT 6049 Kerma inelastic (mt51-91) 60-Nd-150  
 Cross Section -100.0 To 0.000 %



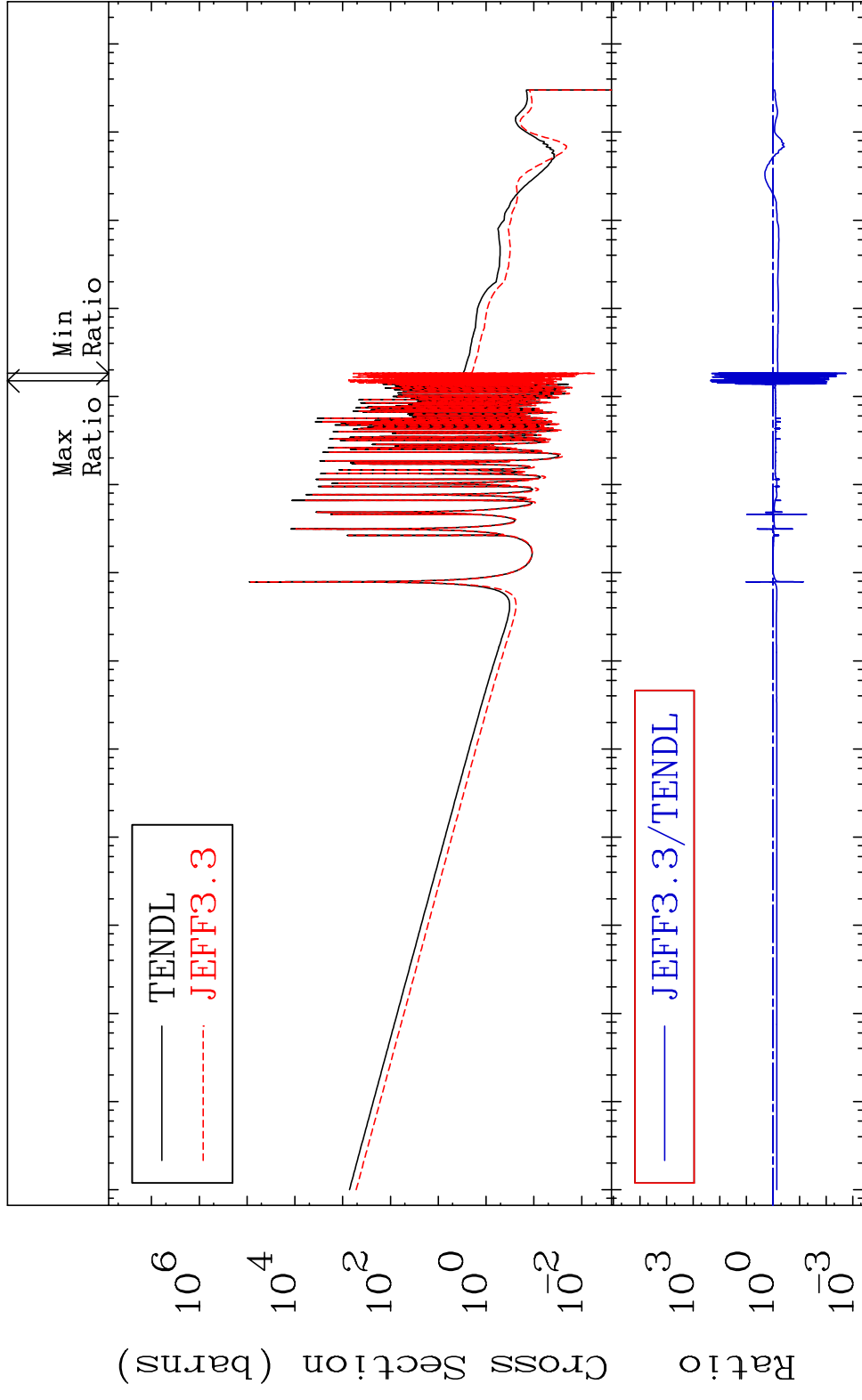
MAT 6049 Kerma fission (mt18 or mt19-20-21-38) <sup>60</sup>Nd-150  
 Cross Section -100.0 To 0.000 %



MAT 6049

Kerma capture (mt102) 60-Nd-150

Cross Section -99.83 To 9999. %

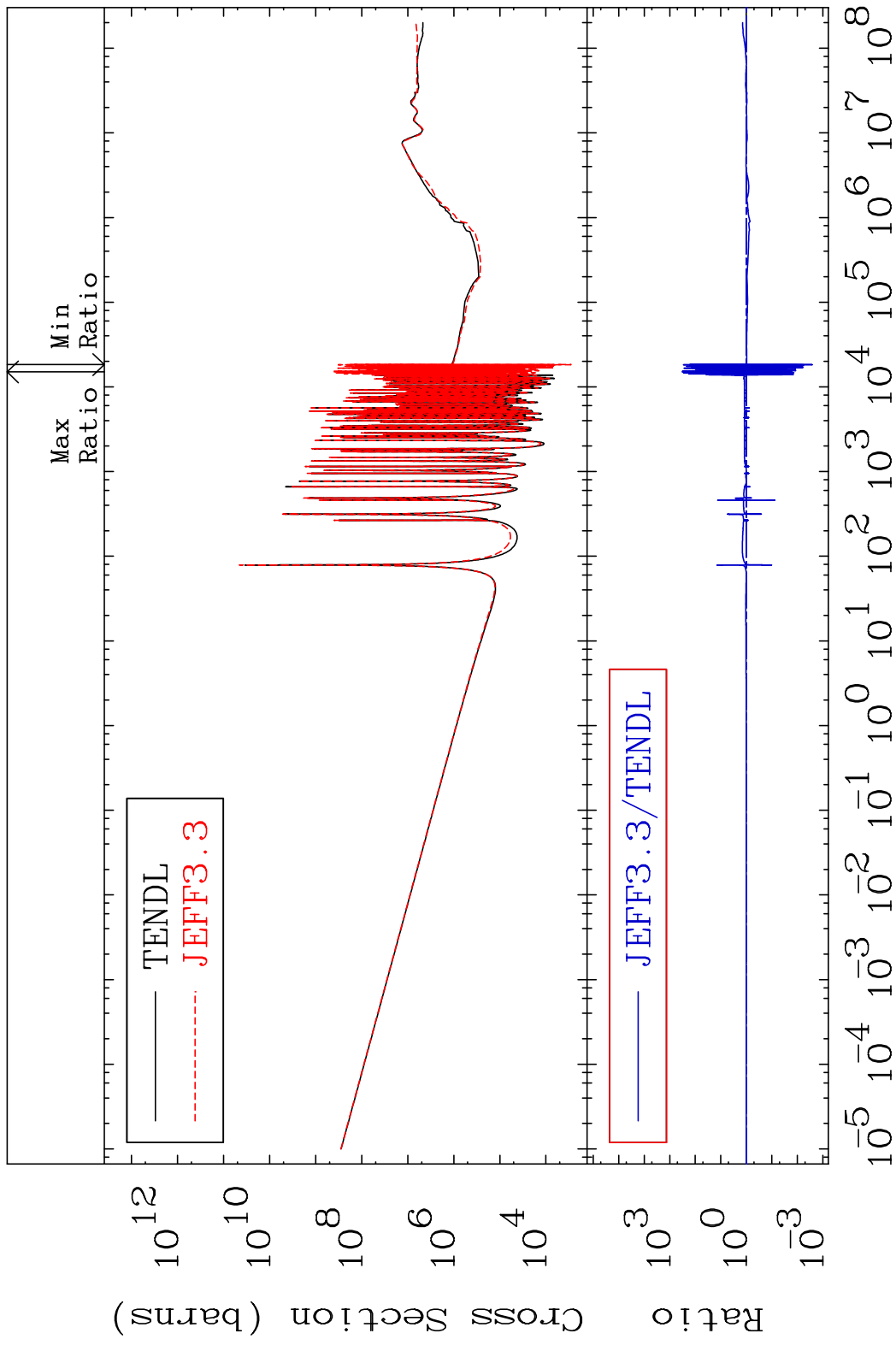


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Incident Energy (eV)

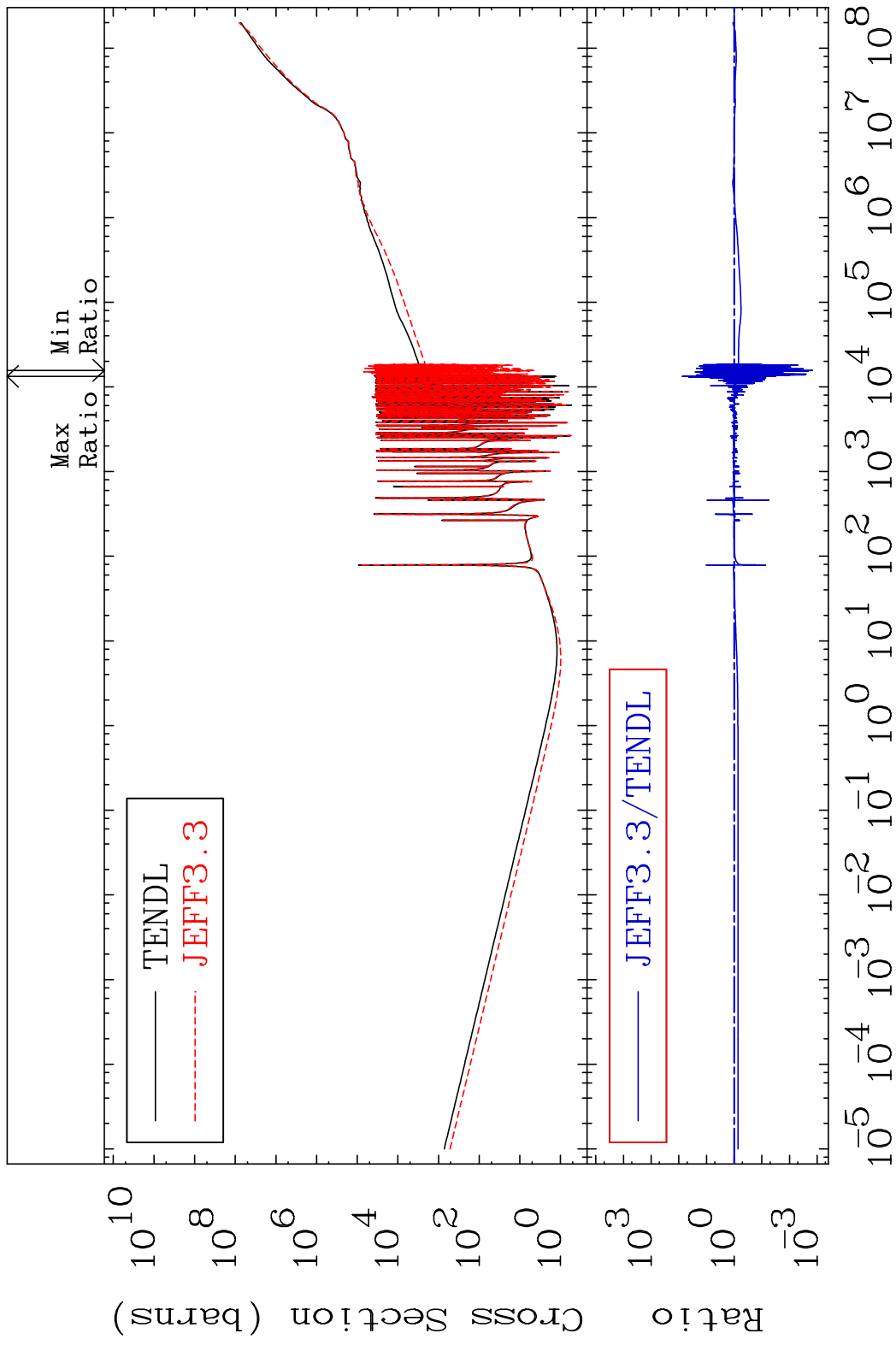
60-Nd-150

MAT 6049 Total photon (eV-barns) 60-Nd-150  
Cross Section -99.75 To 9999. %

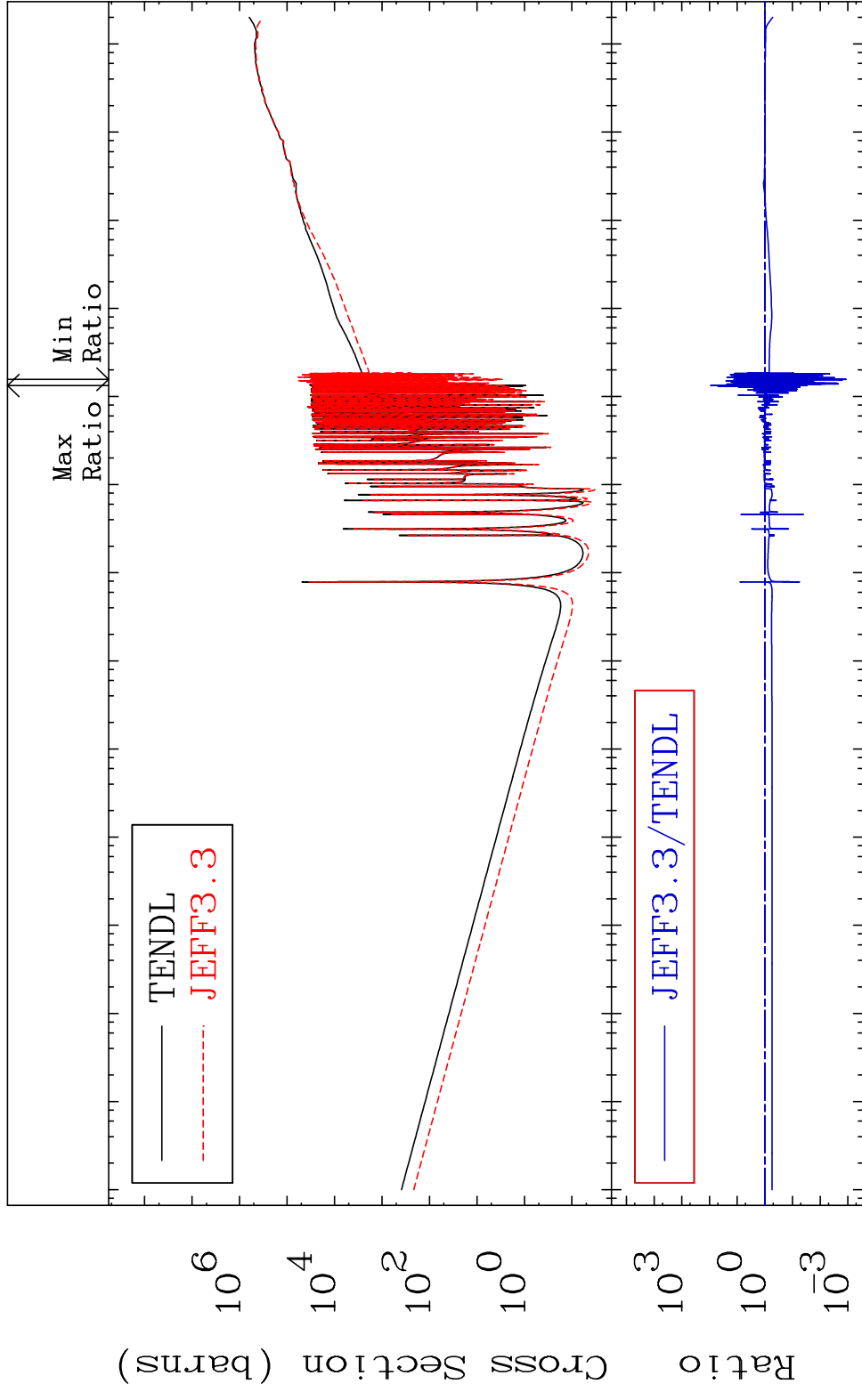


71 Incident Energy (eV) 60-Nd-150

MAT 6049 Total kinematic kerma (high limit) 60-Nd-150  
 Cross Section -99.85 To 7334. %



MAT 6049      Dpa total (eV-barns)      60-Nd-150  
 Cross Section      -99.89 To 8935. %



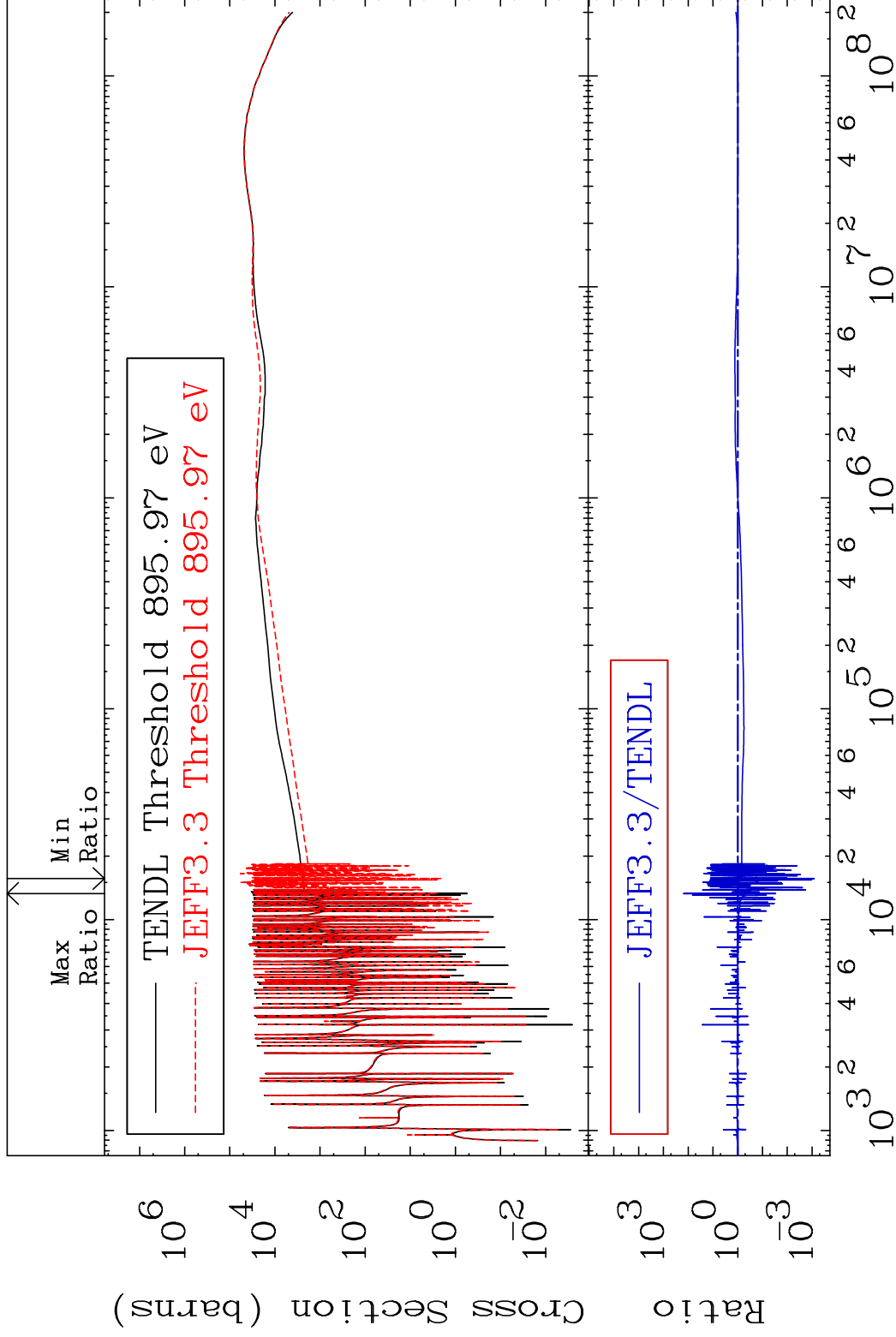
73      Incident Energy (eV)      60-Nd-150

MAT 6049

Dpa elastic (mt2)

60-Nd-150

Cross Section -99.92 To 9999. %

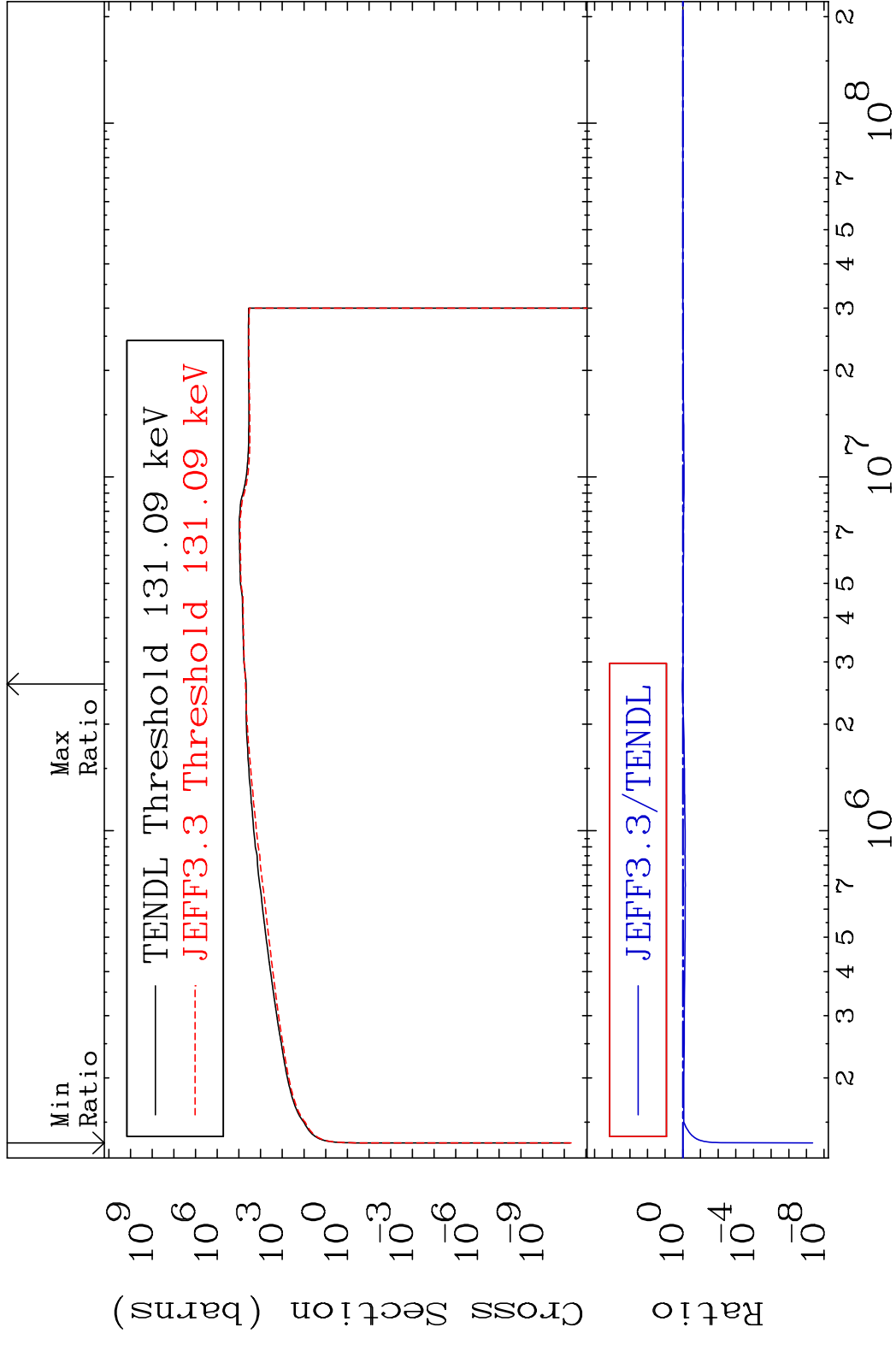


74

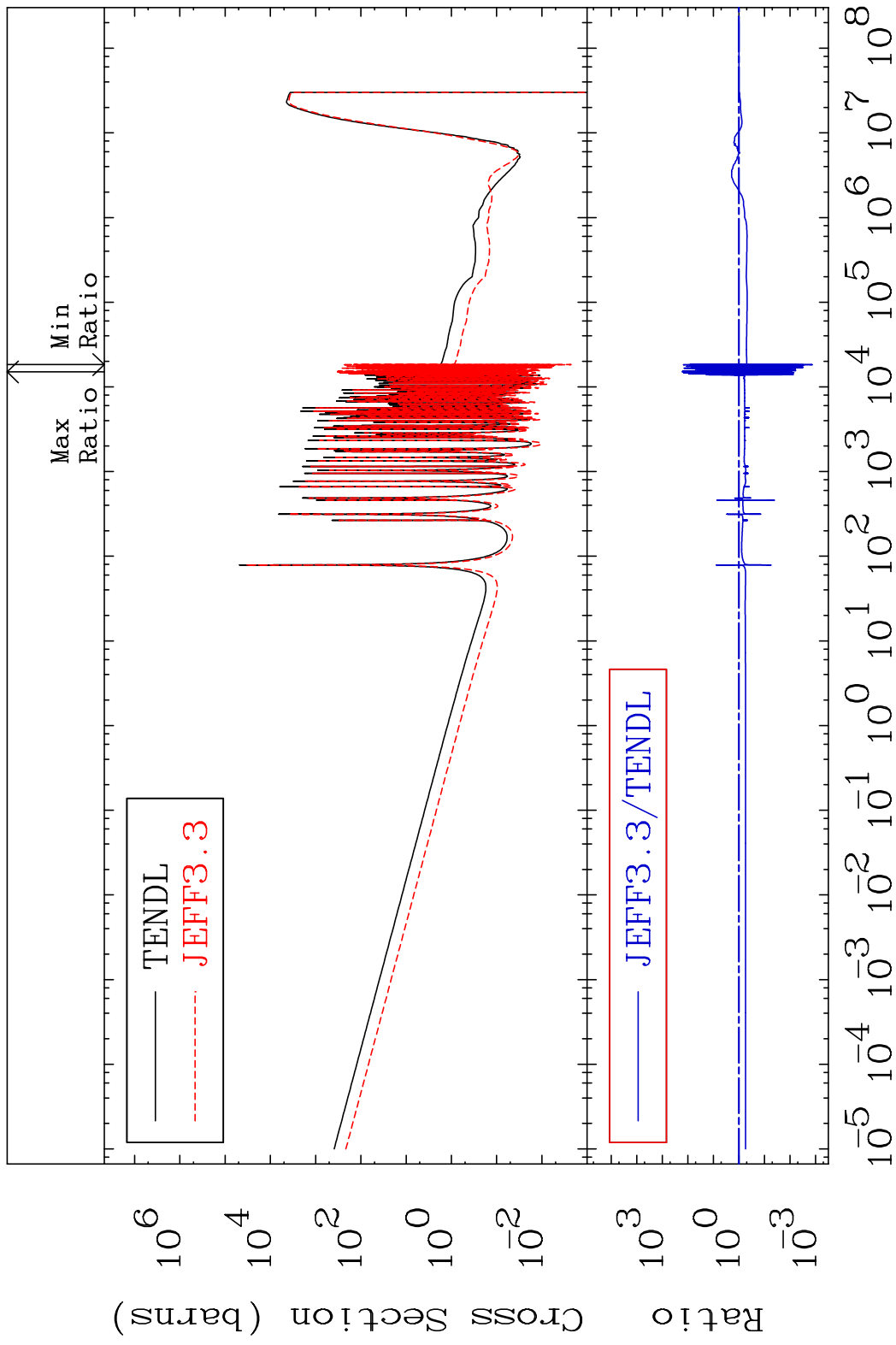
Incident Energy (eV)

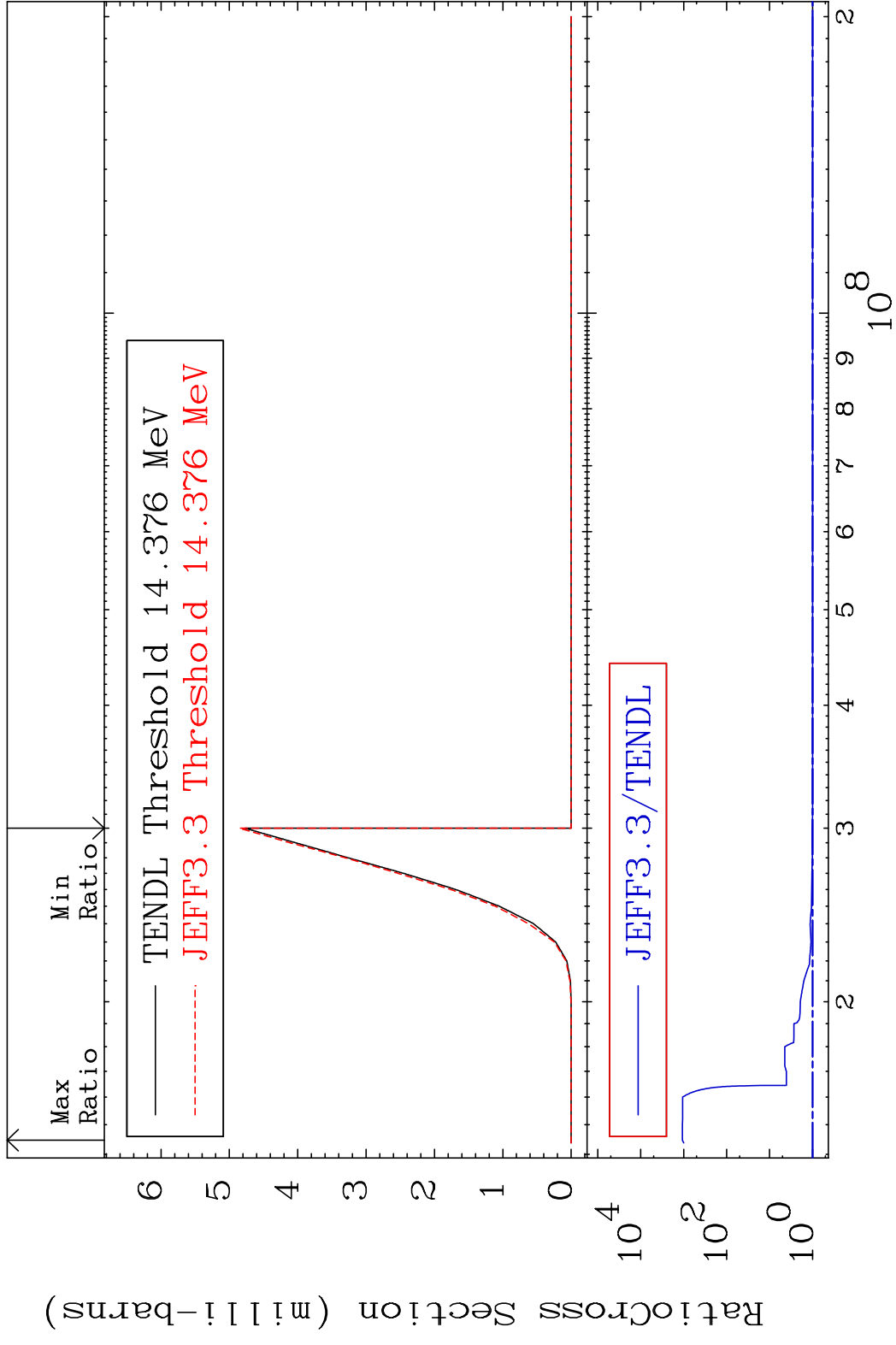
60-Nd-150

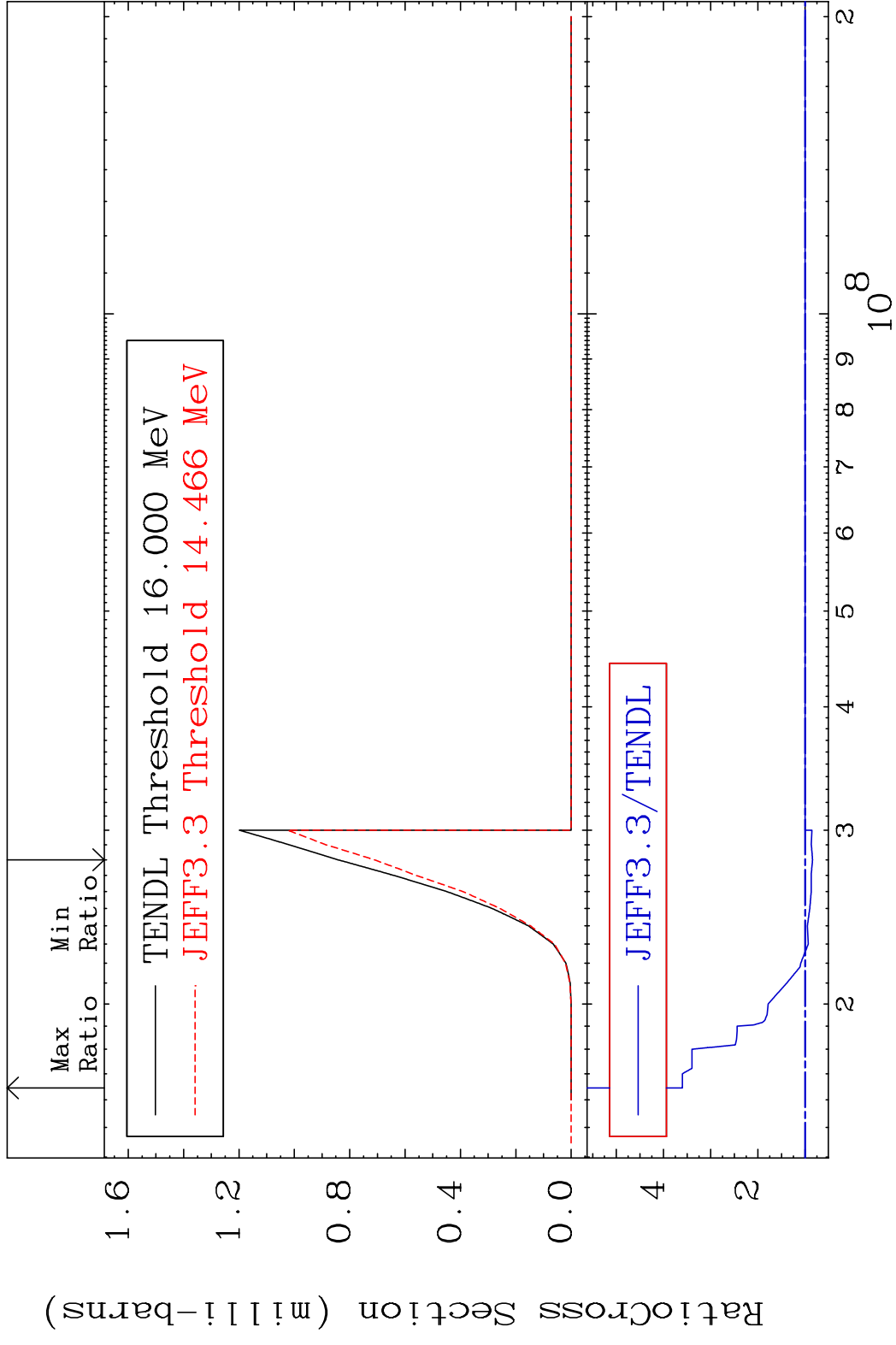
MAT 6049 Dpa inelastic (mt51-91) 60-Nd-150  
 Cross Section -100.0 To 6.175 %

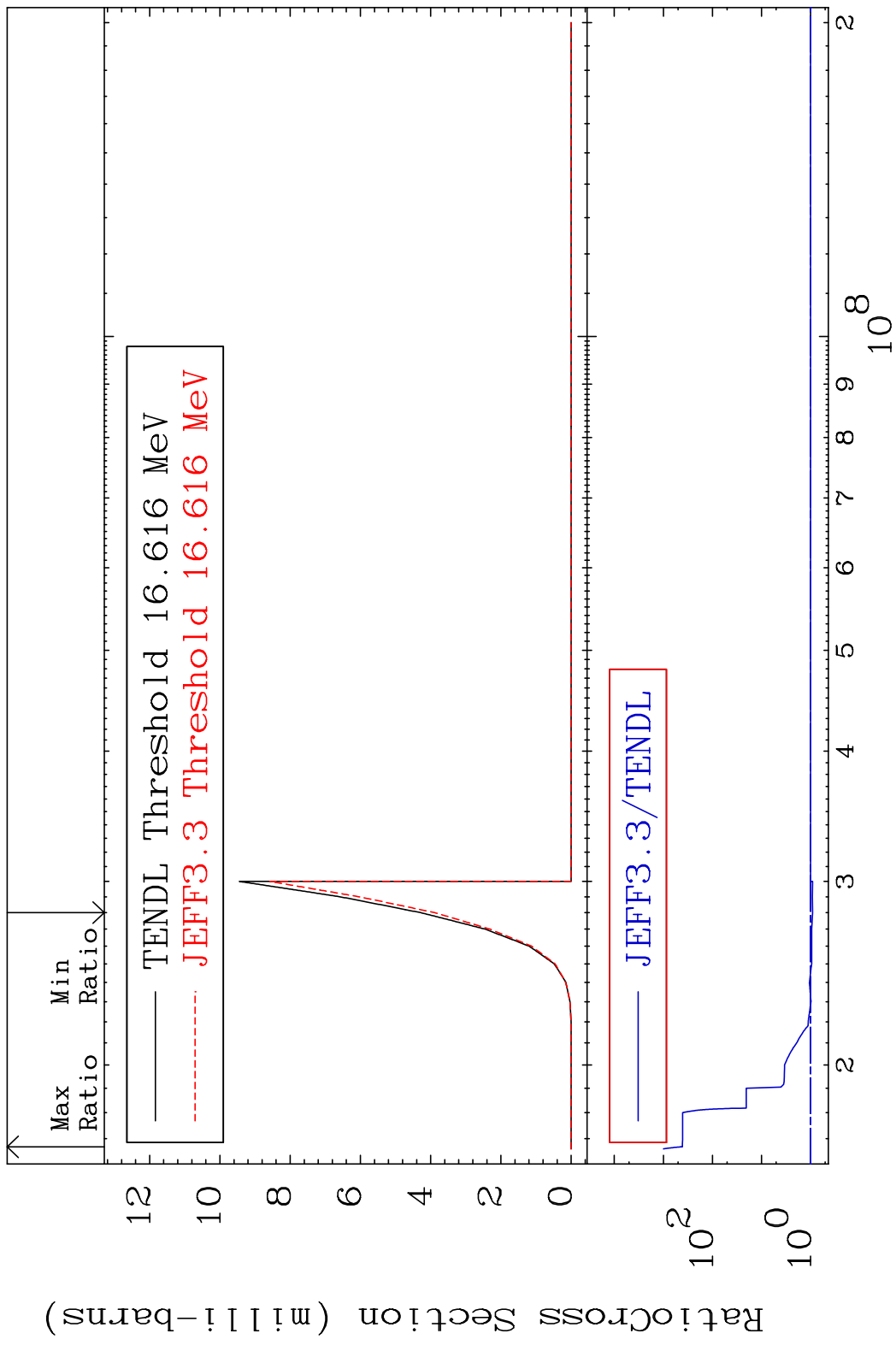


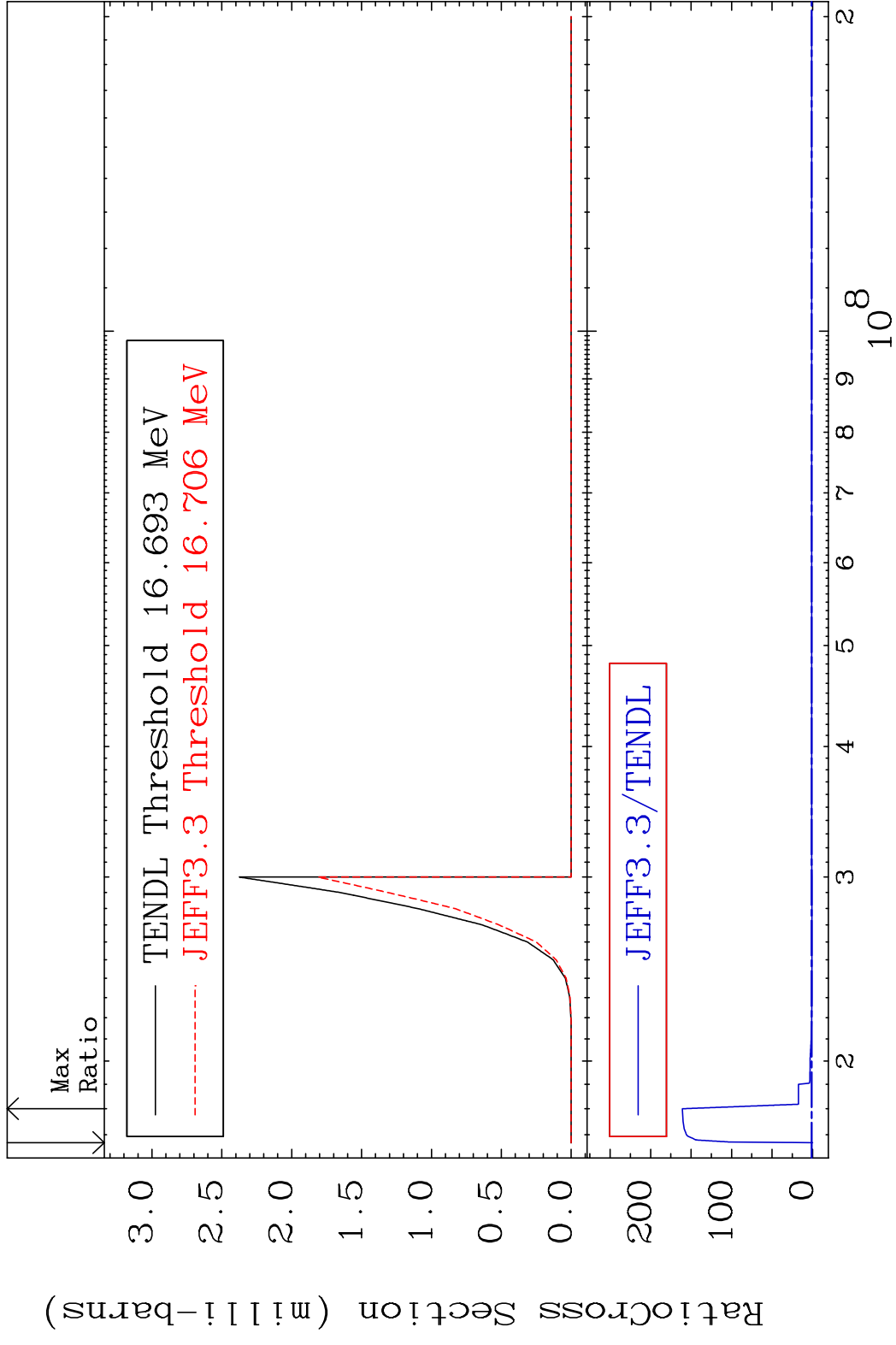
MAT 6049 Dpa disappearance (mt102 -120) 60-Nd-150  
 Cross Section -99.87 To 9999. %

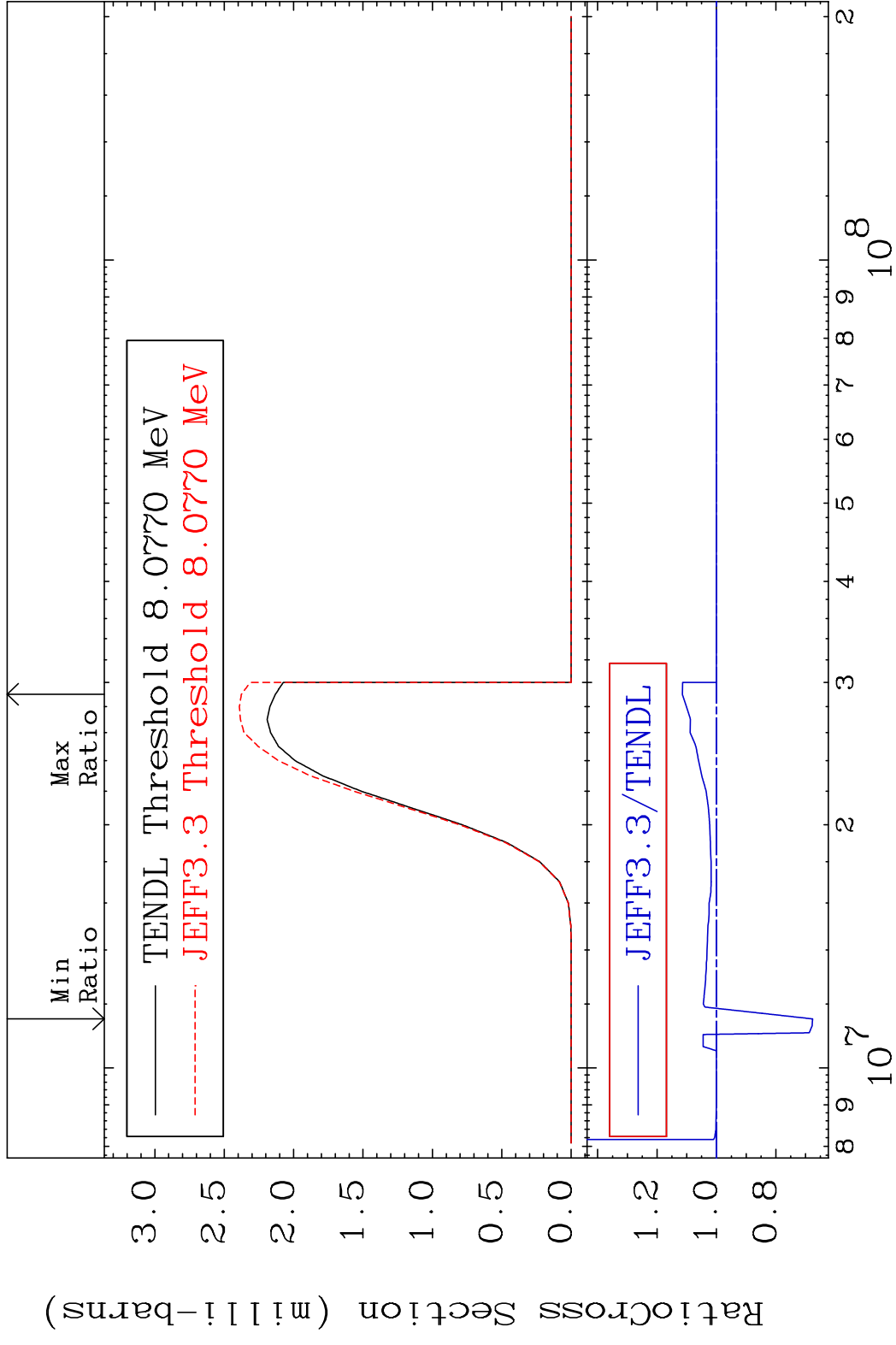












MAT 6049 (n, t):59-Pr-148m1 60-Nd-150  
 Radionuclide Production Cross Section 180.01 dth 0.000 %

