

Program Complot  
(Version 2018-1)

by

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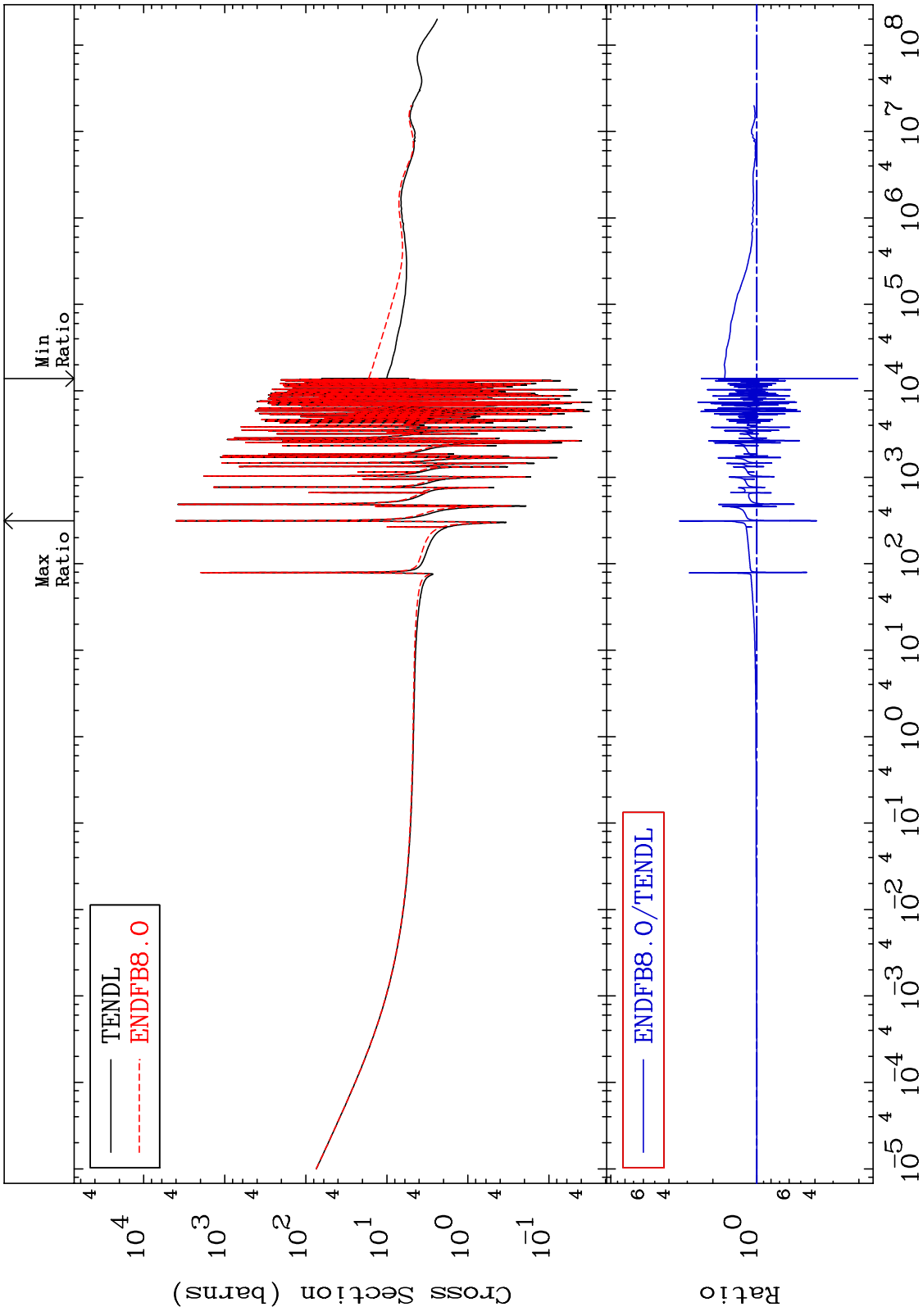
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Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 6049      Total Cross Section      60-Nd-150  
-79.68 To 241.1 %

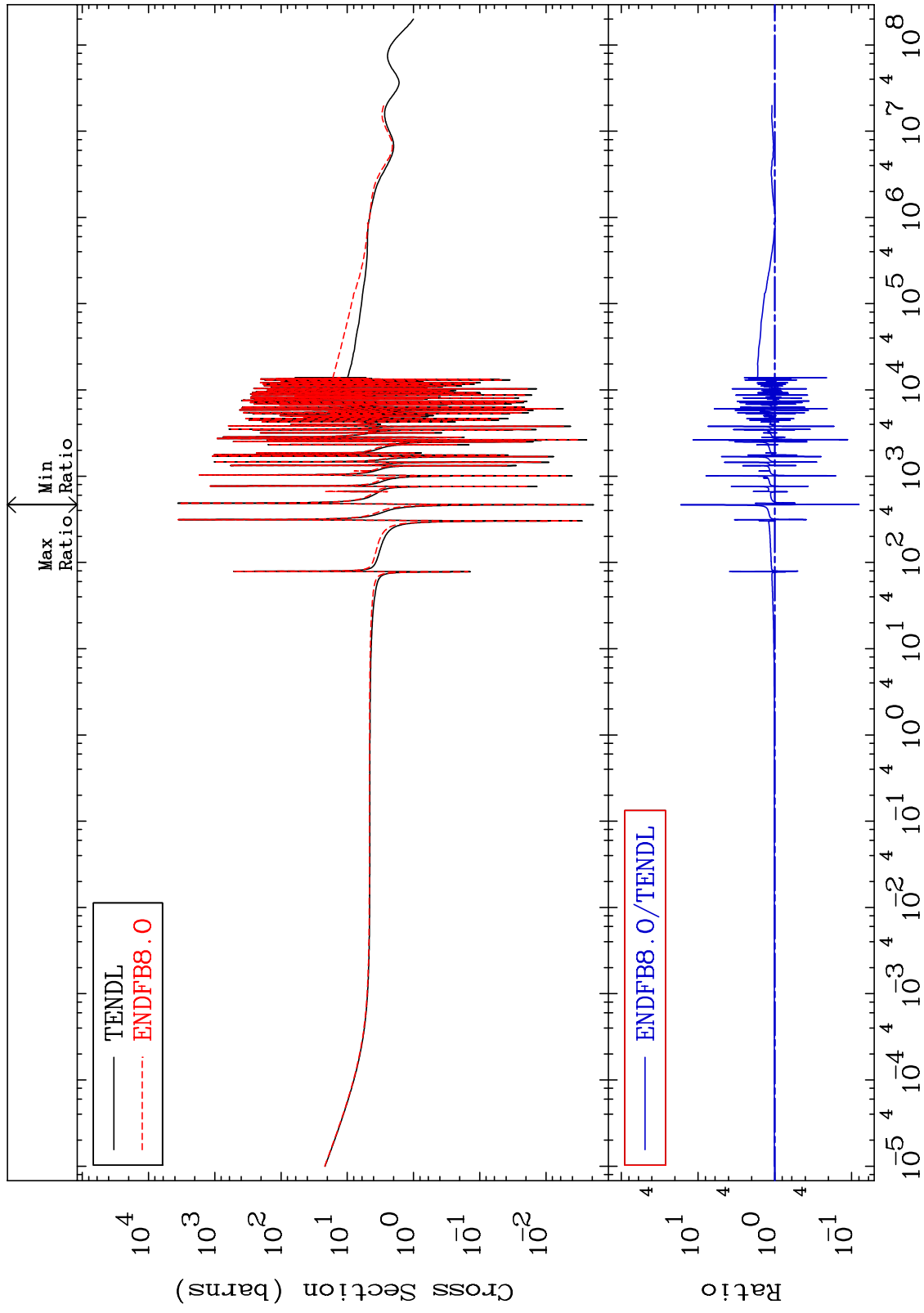


1      Incident Energy (eV)      60-Nd-150

MAT 6049

Elastic  
Cross Section

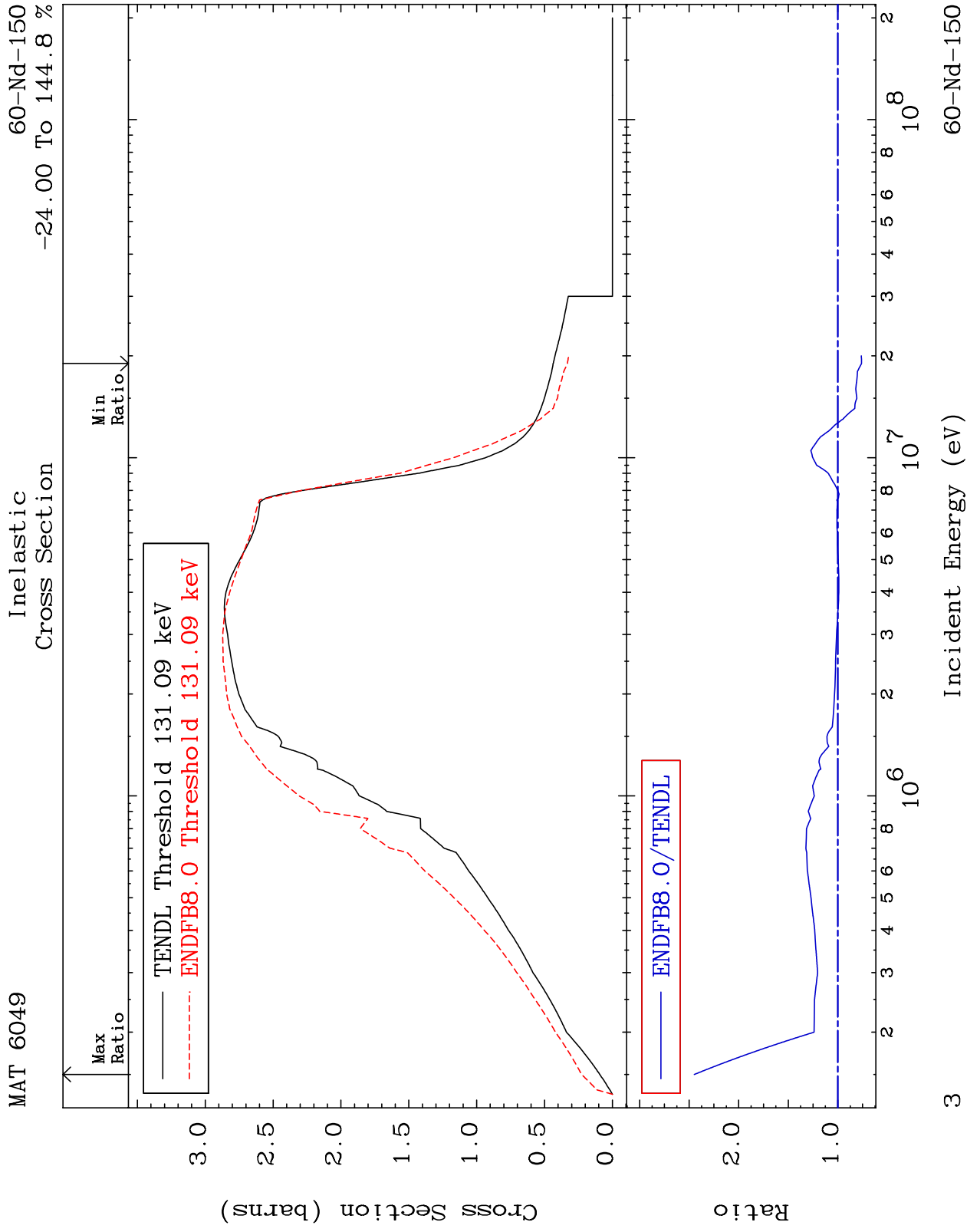
60-Nd-150  
-91.99 To 1589. %



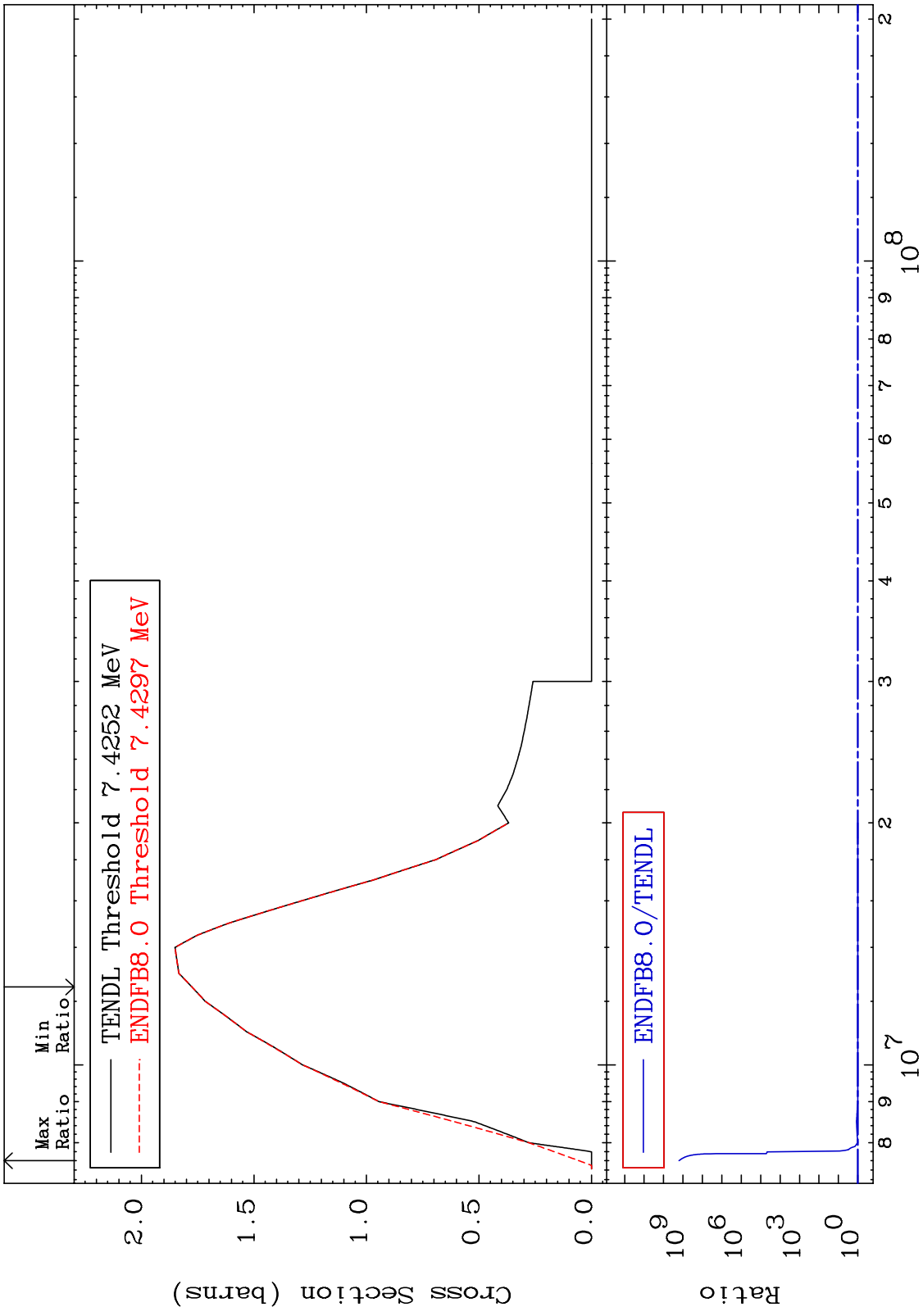
2

Incident Energy (eV)

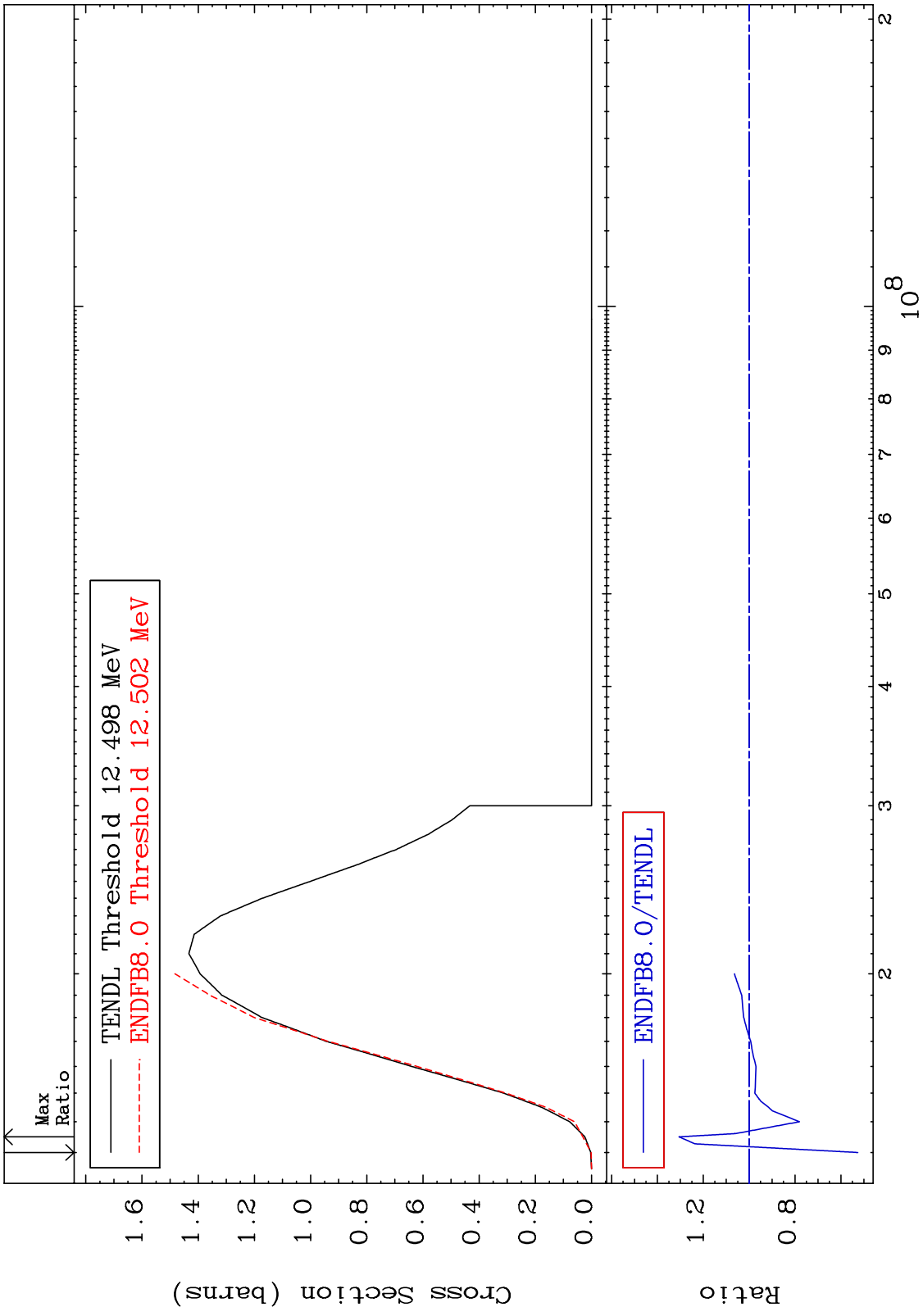
60-Nd-150



MAT 6049 (n,2n) Cross Section 60-Nd-150 -0.012 To 9999. %



MAT 6049 (n,3n) Cross Section 60-Nd-150 -47.40 To 30.58 %



MAT 6049

(n, n')  $\alpha$

60-Nd-150

-26.26 To 9999. %

Cross Section

Max Ratio

Min Ratio

TENDL Threshold 472.44 keV  
ENDFB8.0 Threshold 6.0000 MeV

Cross Section (milli-barns)

12

10

8

6

4

2

0

ENDFB8.0/TENDL

10<sup>2</sup>

10<sup>1</sup>

10<sup>0</sup>

10<sup>6</sup>

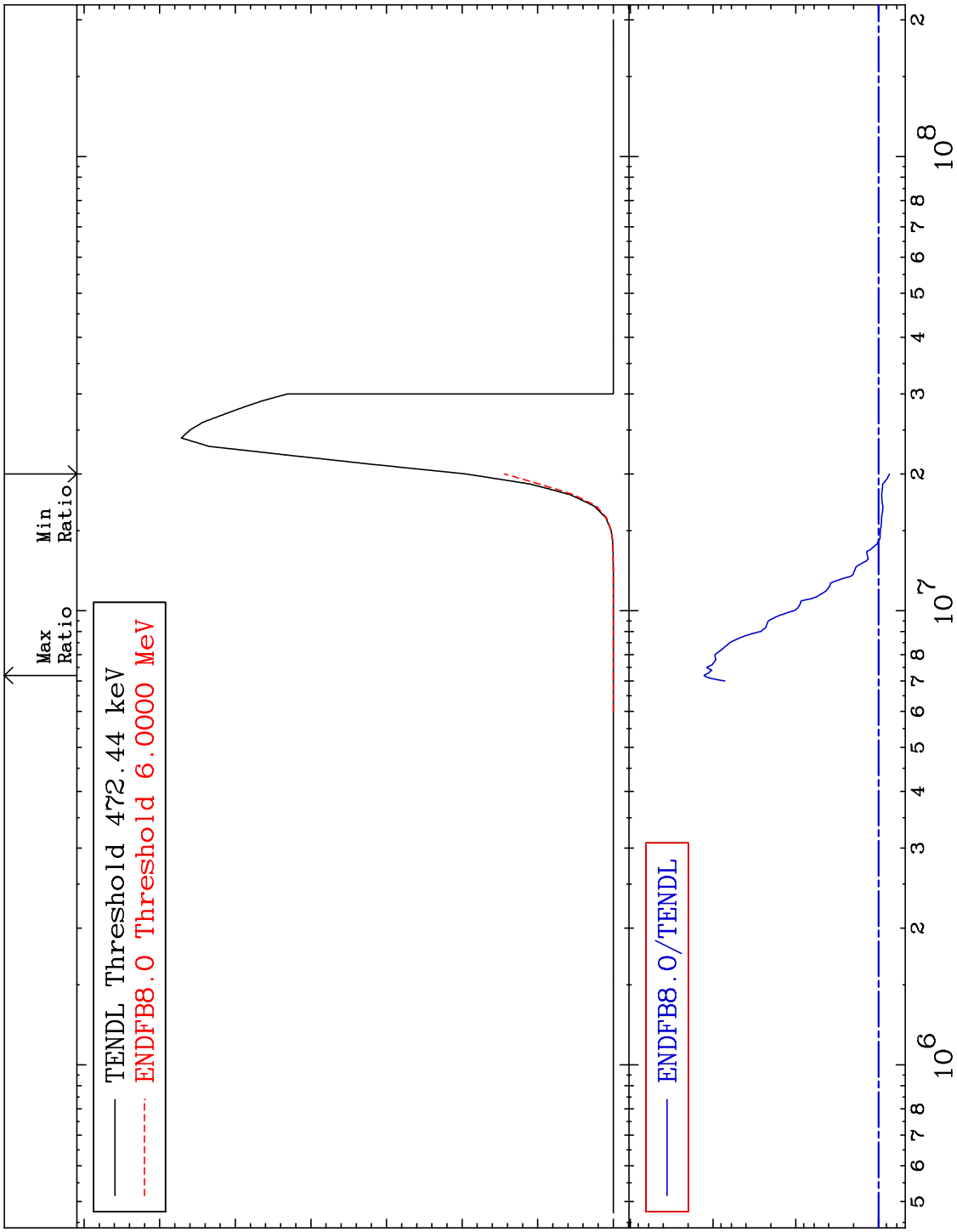
10<sup>7</sup>

10<sup>8</sup>

6

Incident Energy (eV)

60-Nd-150



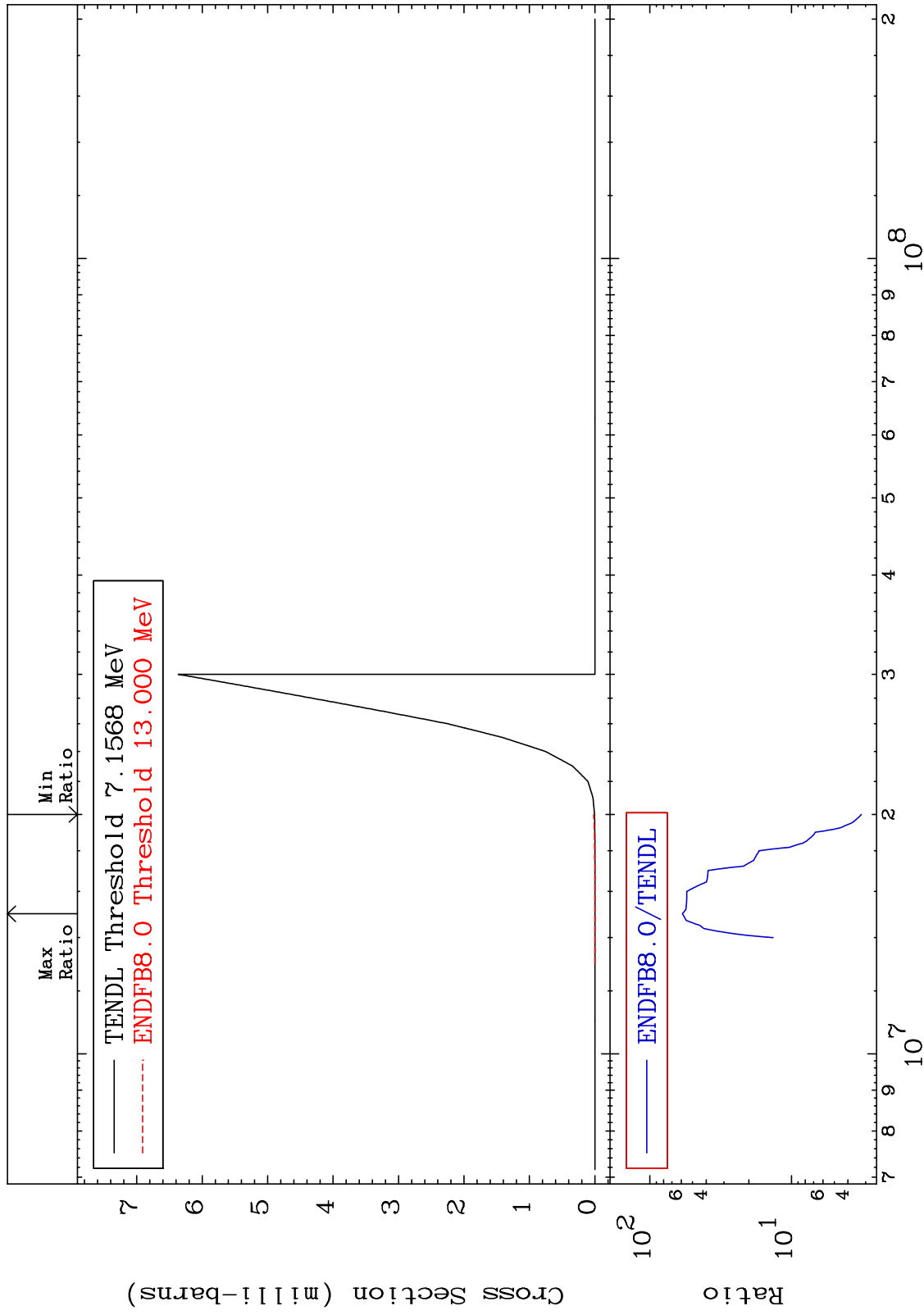
MAT 6049

(n,2n)  $\alpha$

60-Nd-150

Cross Section

222.2 To 5789. %



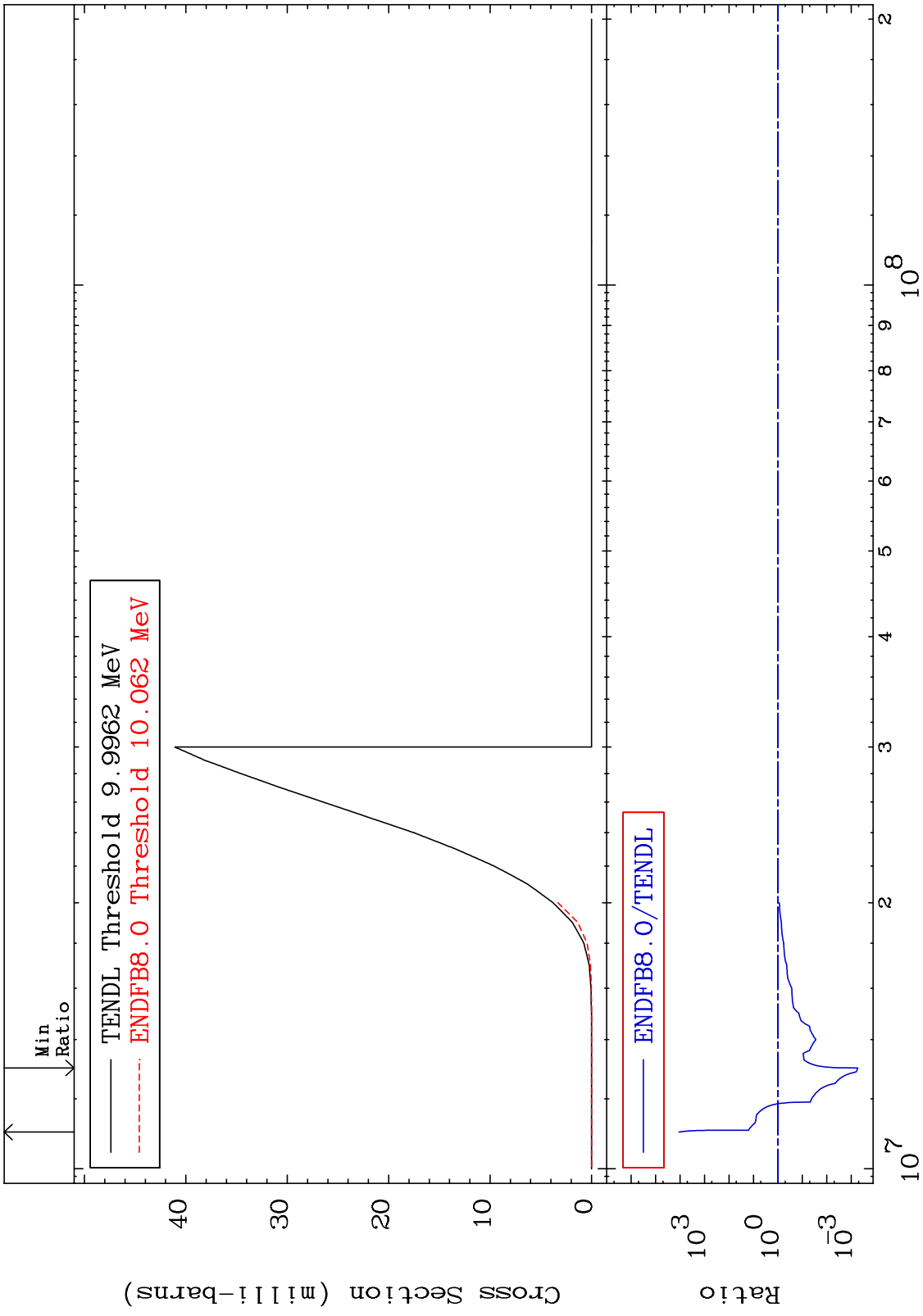
7

Incident Energy (eV)

60-Nd-150

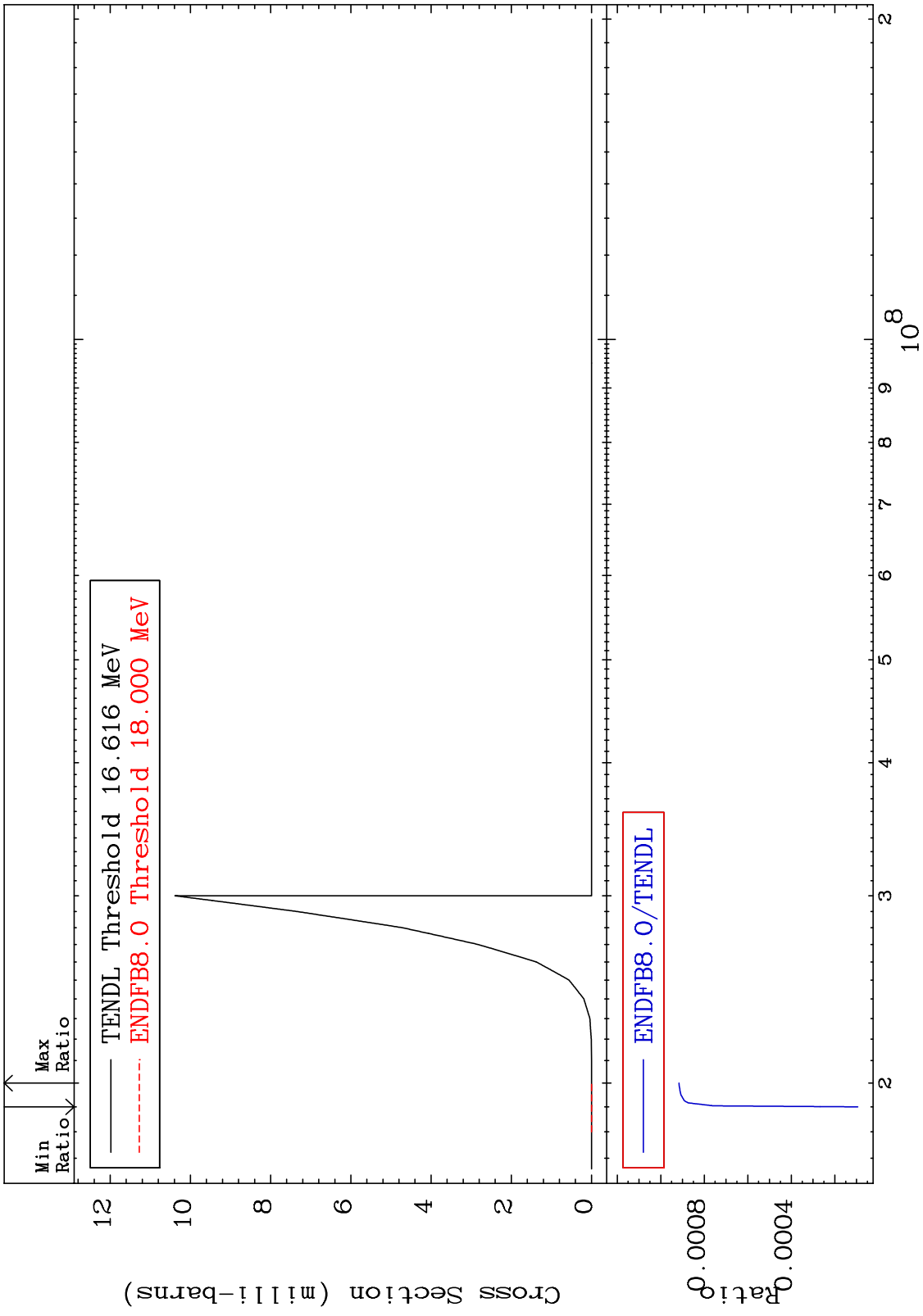


MAT 6049 (n,n') p 60-Nd-150  
Cross Section -99.95 To 9999. %

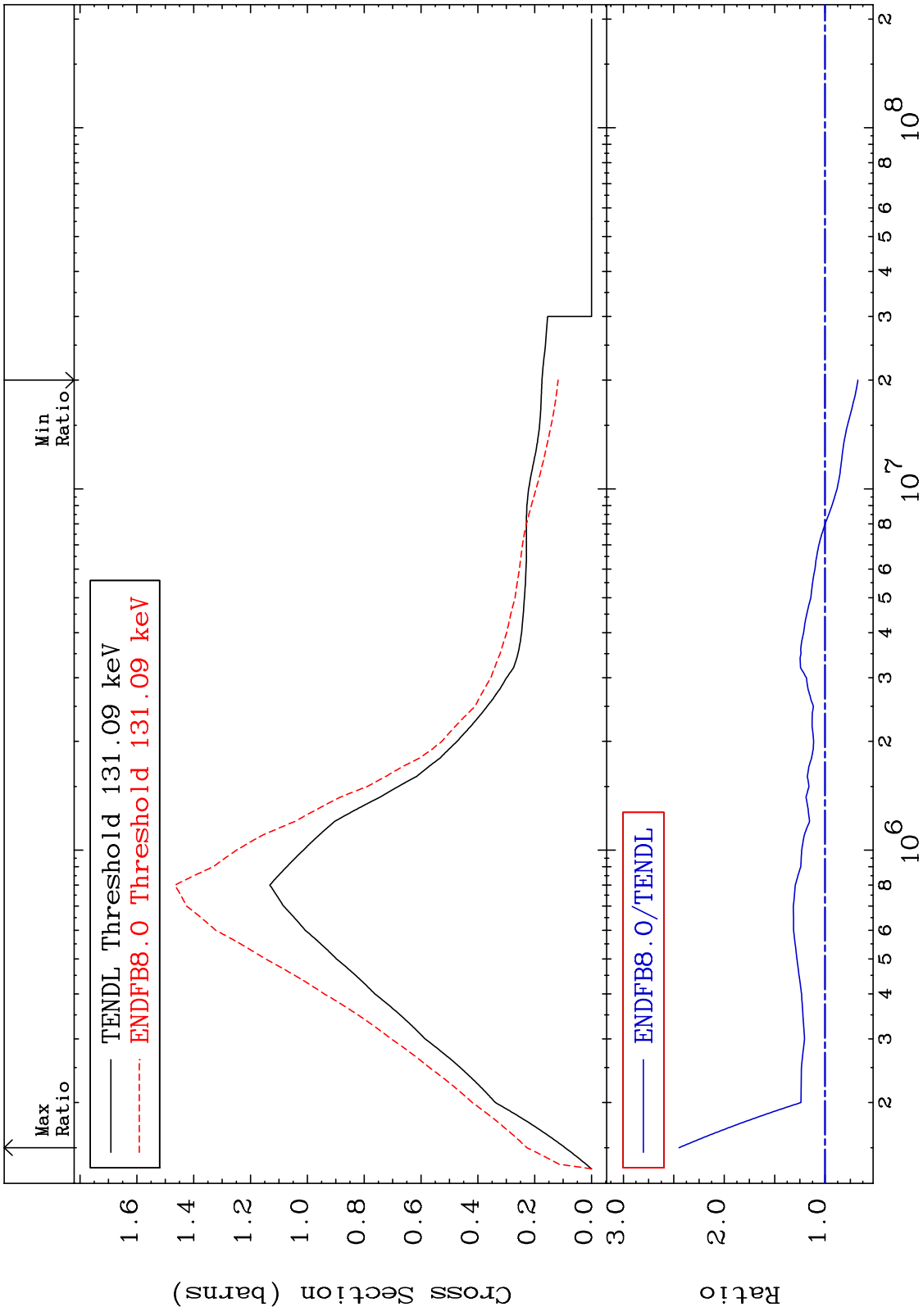


60-Nd-150

MAT 6049 (n,2n) p 60-Nd-150  
 Cross Section -99.99 To -99.91%

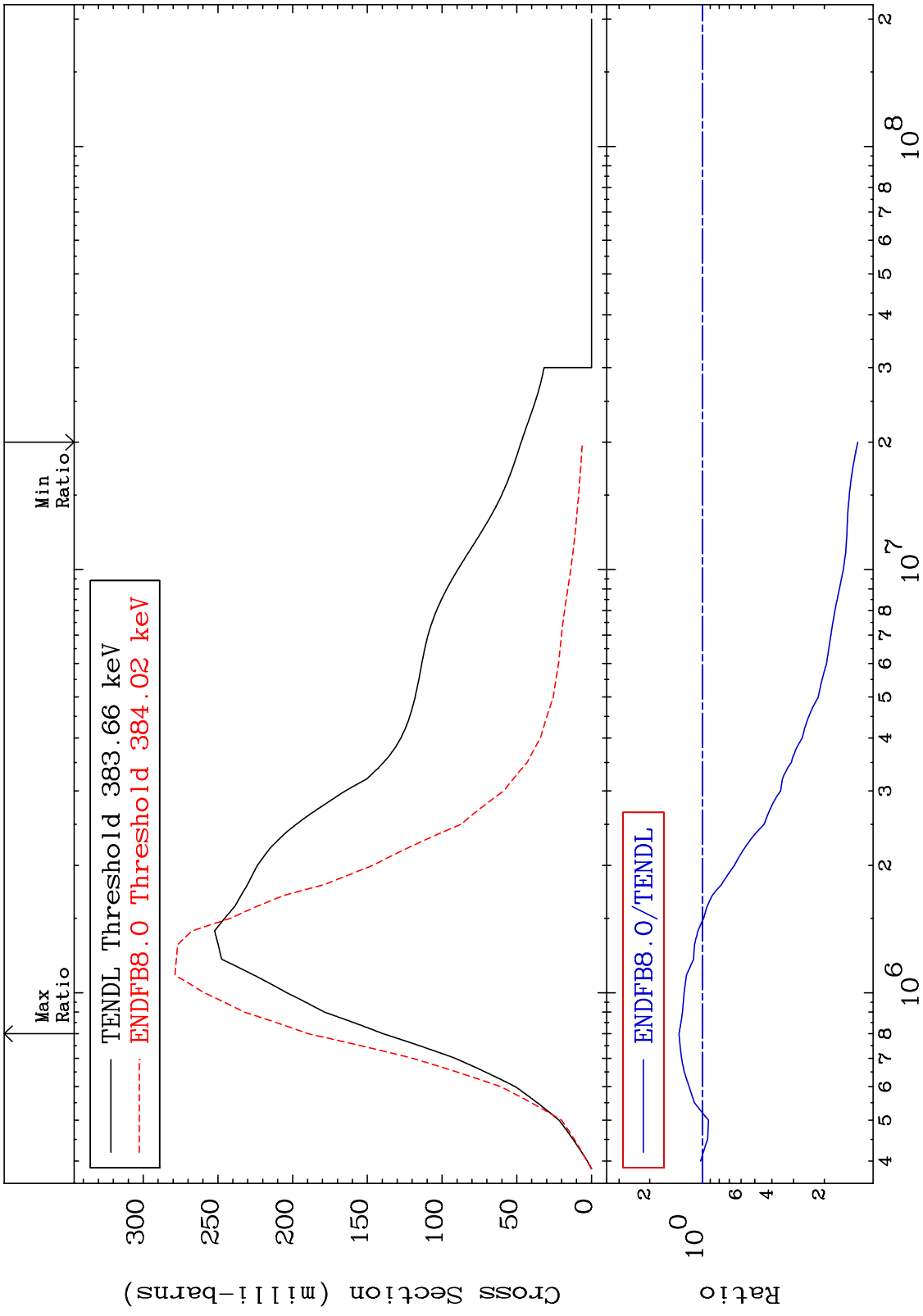


MAT 6049      MT= 51 (n,n') Level Cross Section      60-Nd-150  
 -32.51 To 144.8 %

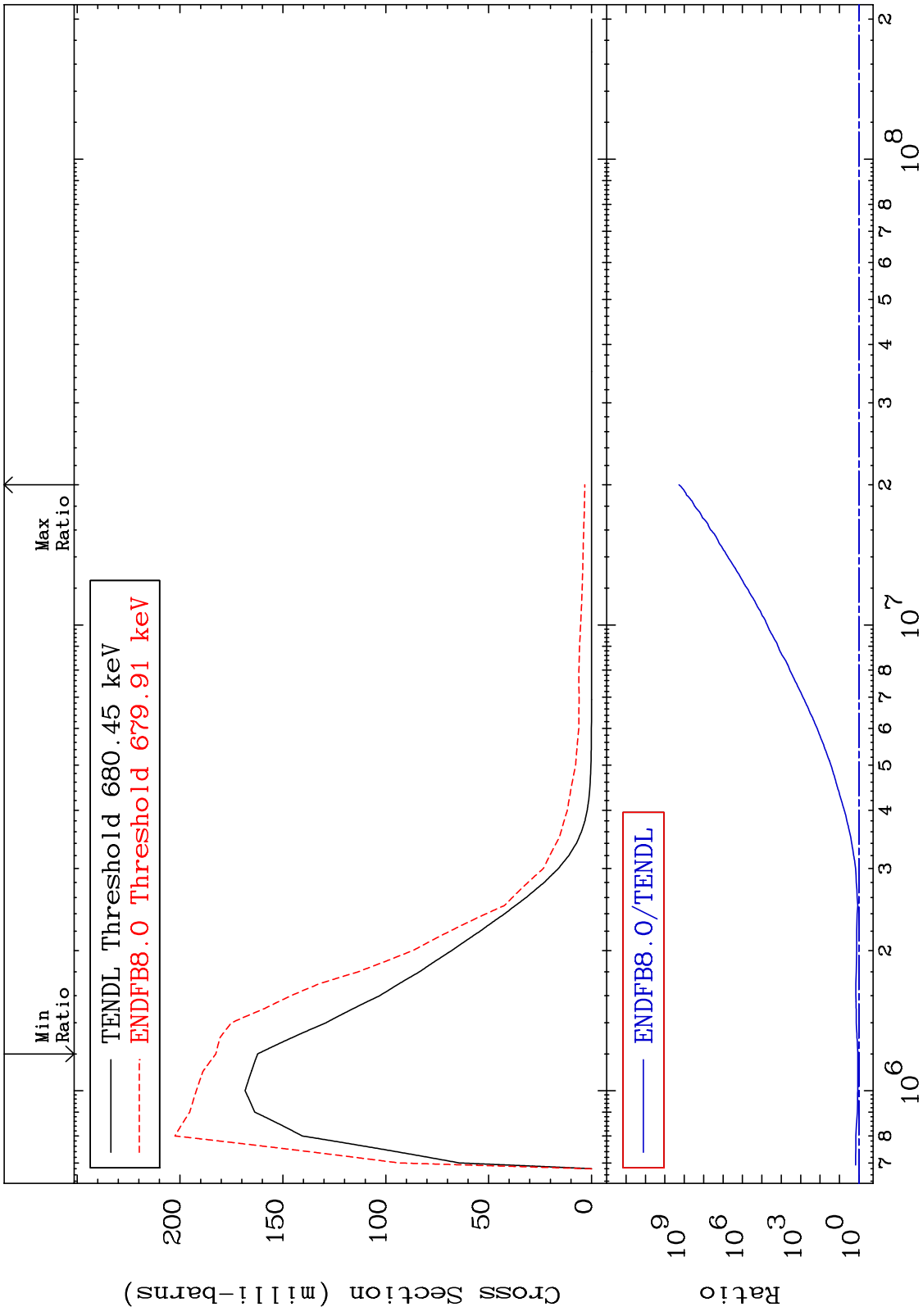


10      Incident Energy (eV)      60-Nd-150

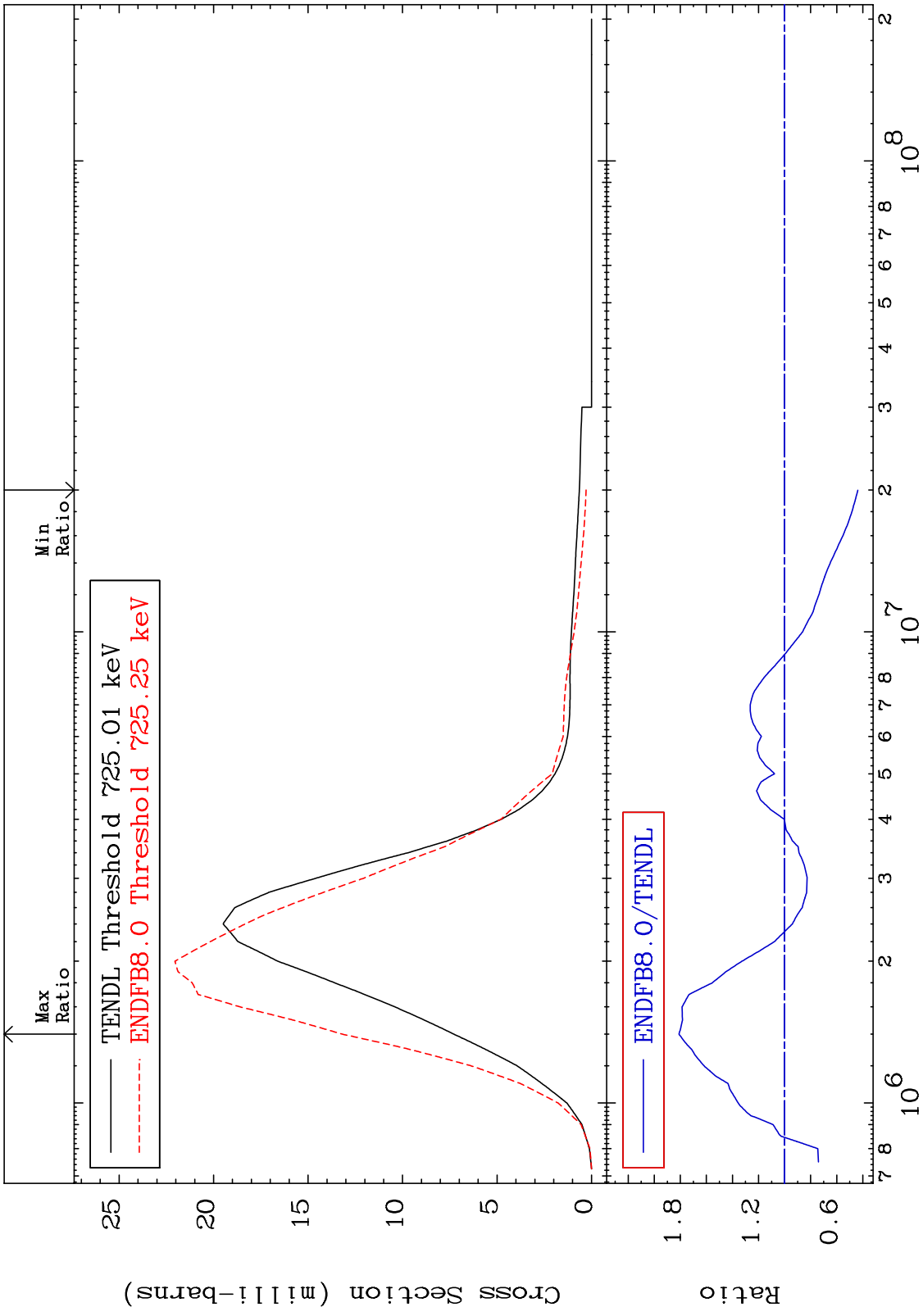
MAT 6049      MT= 52 (n,n') Level Cross Section      60-Nd-150  
 -87.14 To 35.93 %



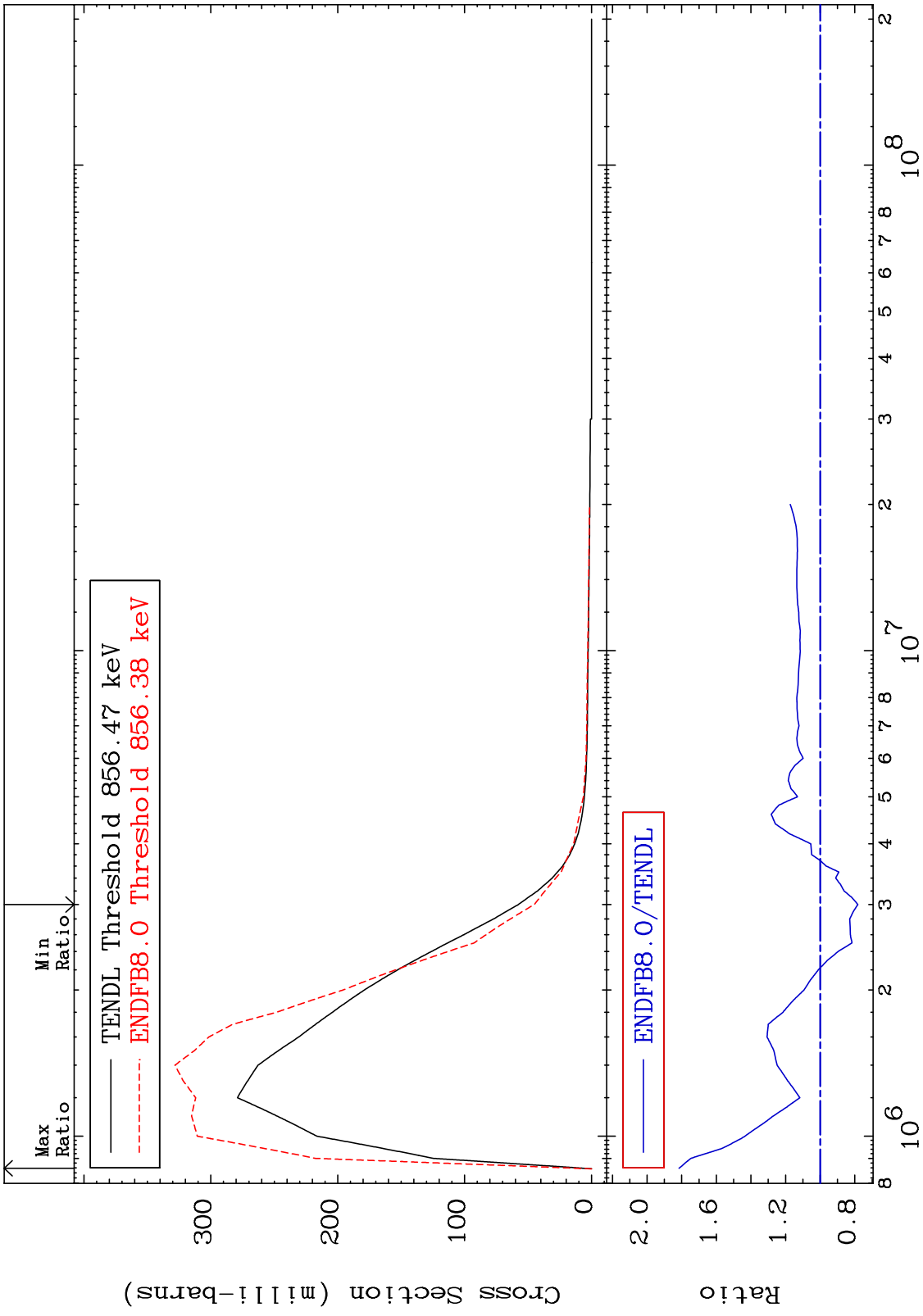
MAT 6049      MT= 53 (n,n') Level Cross Section      60-Nd-150  
 12.51 To 9999. %



MAT 6049 MT= 54 (n,n') Level Cross Section 60-Nd-150  
 -56.22 To 81.00 %



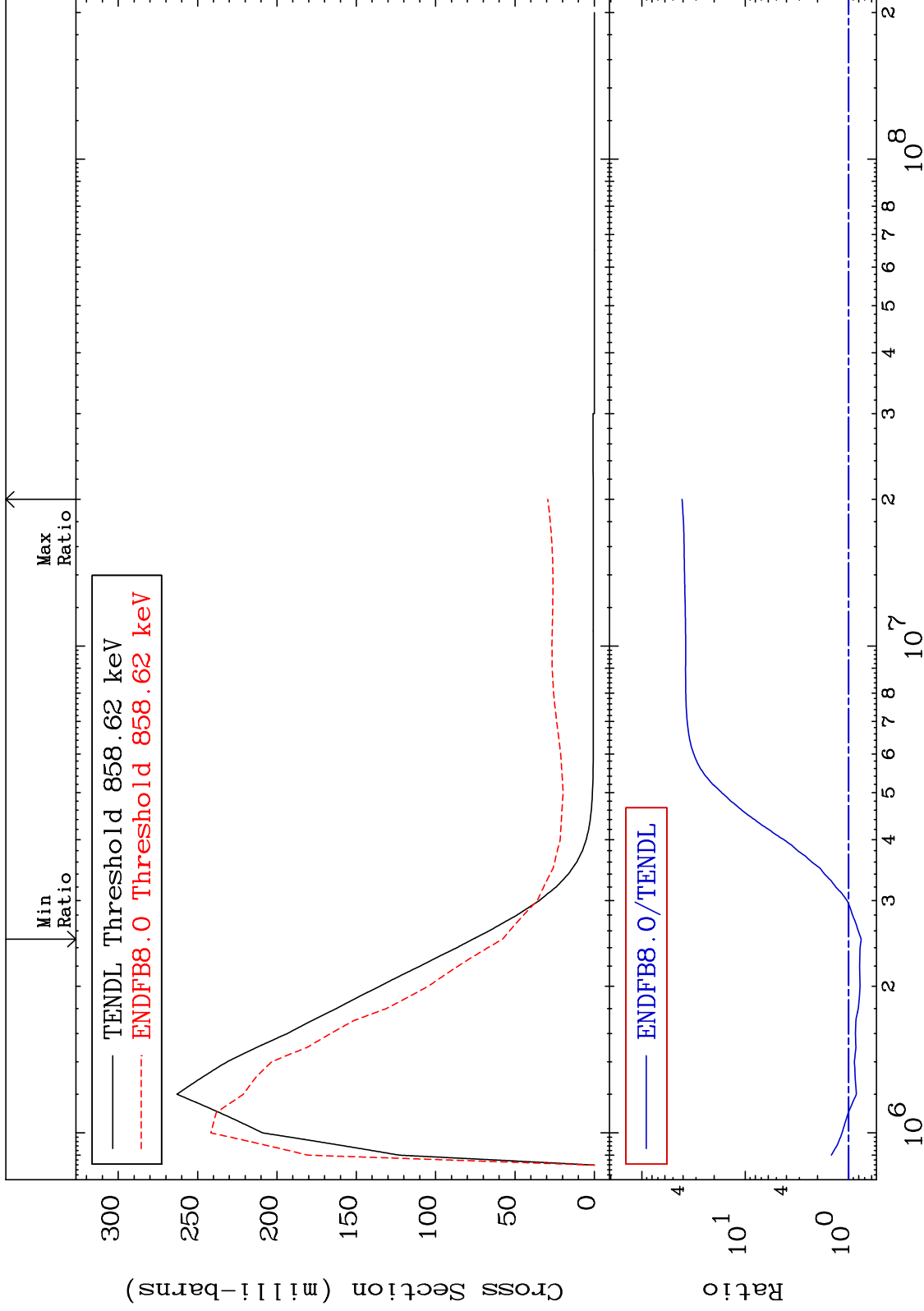
MAT 6049 MT= 55 (n,n') Level Cross Section 60-Nd-150  
 -21.74 To 81.53 %



MAT 6049

MT= 56 (n,n') Level  
Cross Section

60-Nd-150  
-24.42 To 3989. %



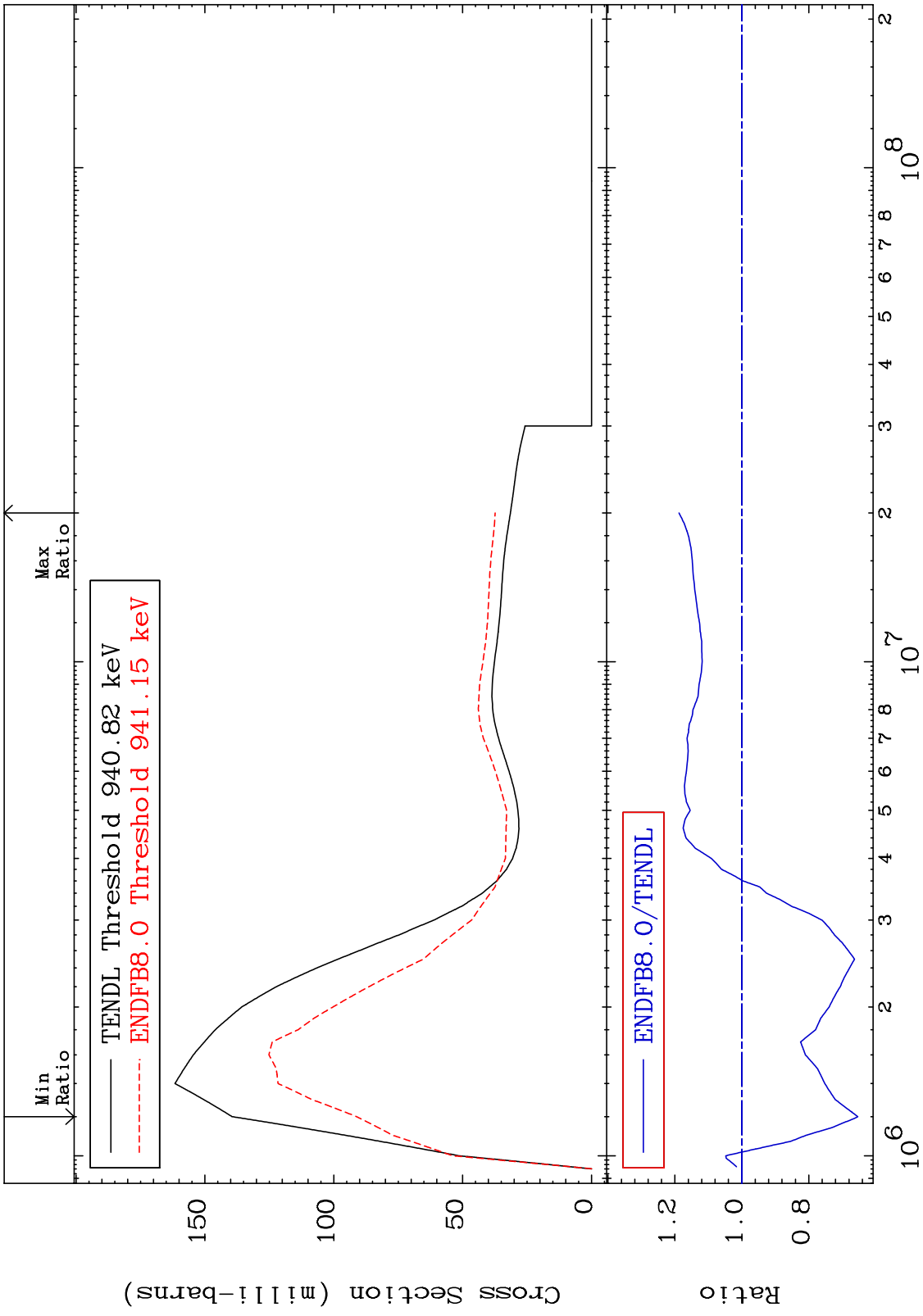
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Incident Energy (eV)

60-Nd-150

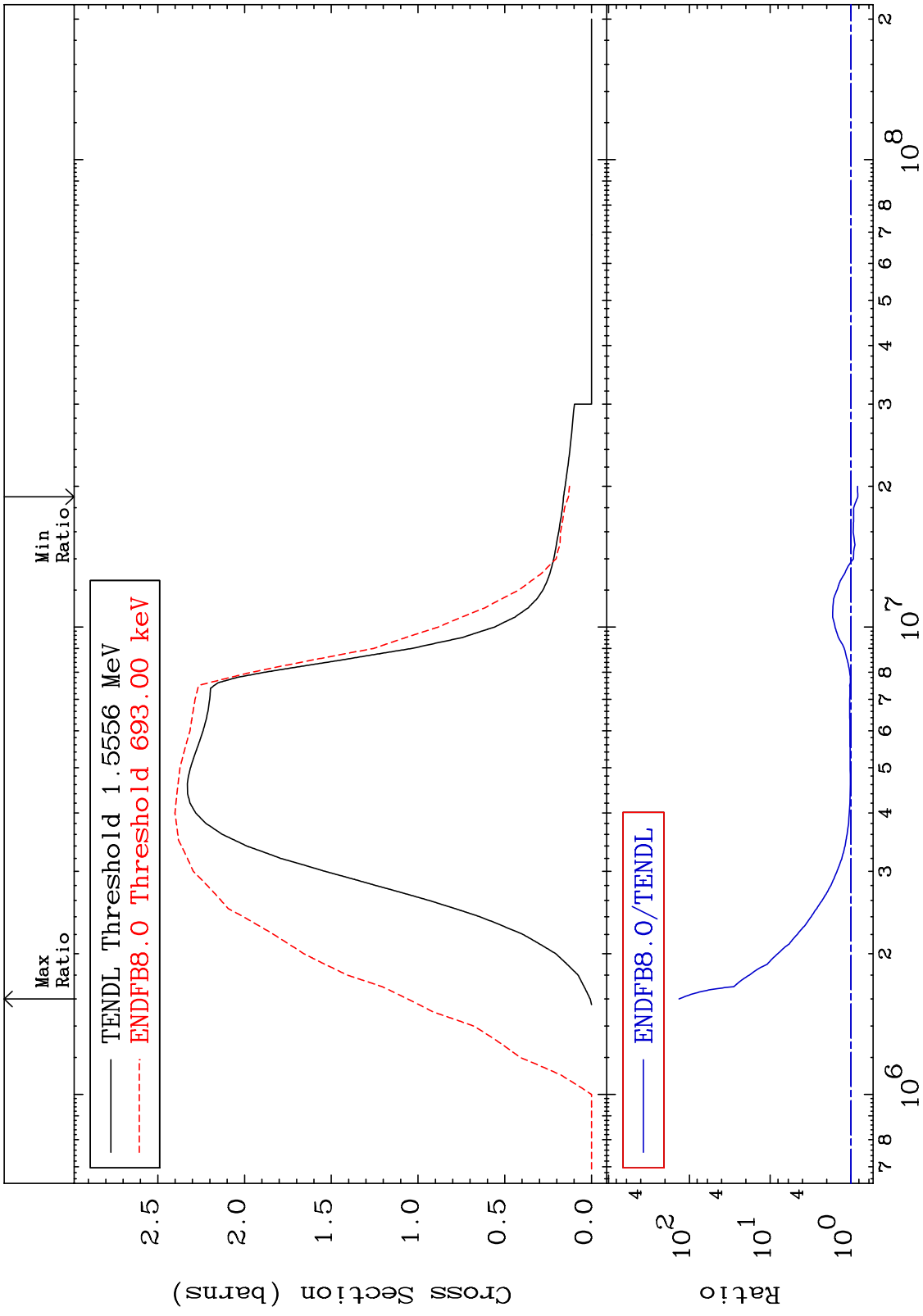


MAT 6049      MT= 57 (n,n') Level Cross Section      60-Nd-150  
 -34.66 To 18.77 %



16      Incident Energy (eV)      60-Nd-150

MAT 6049 (n,n') Continuum Cross Section 60-Nd-150 -17.47 To 9999. %



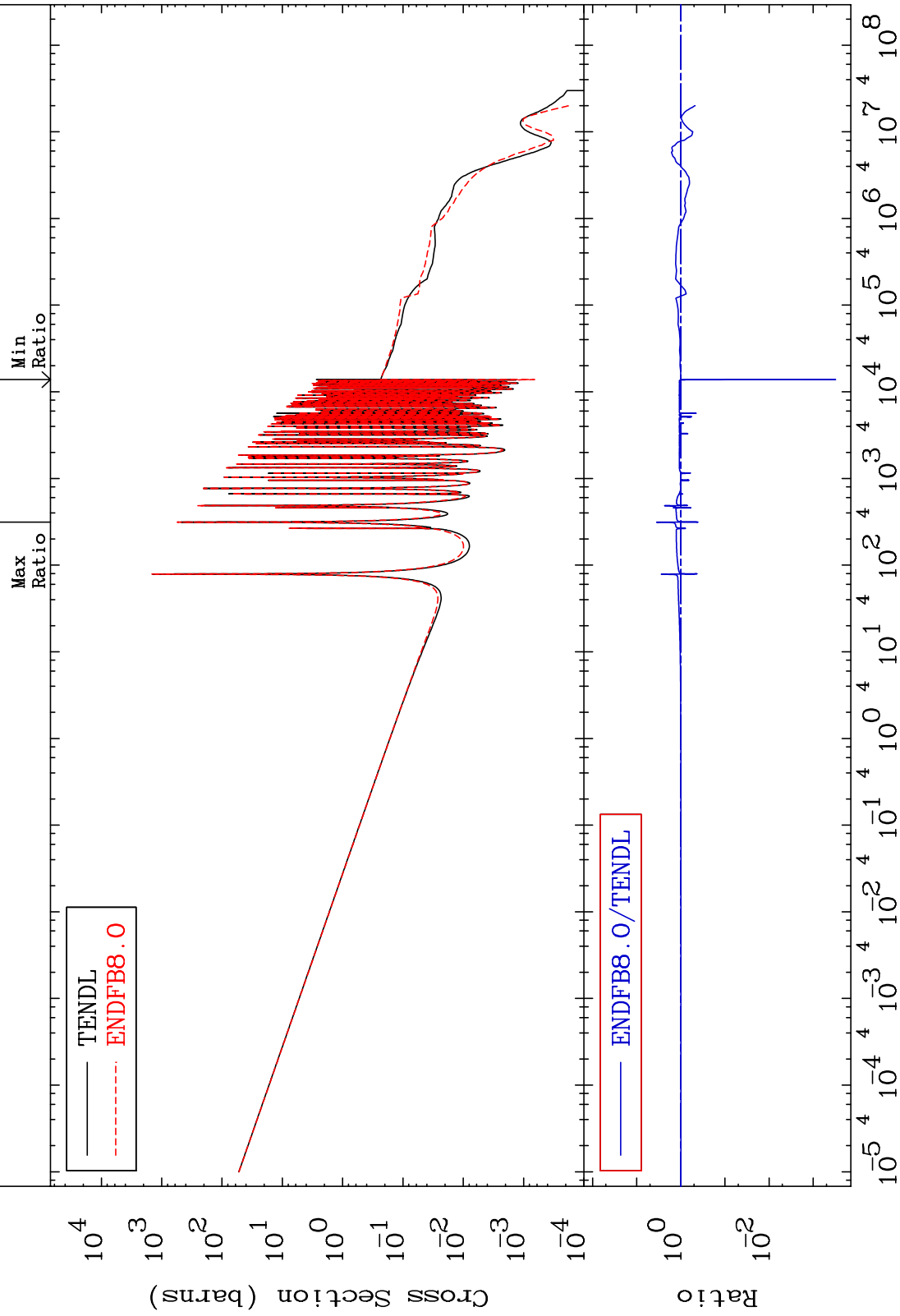
MAT 6049

(n,  $\gamma$ )

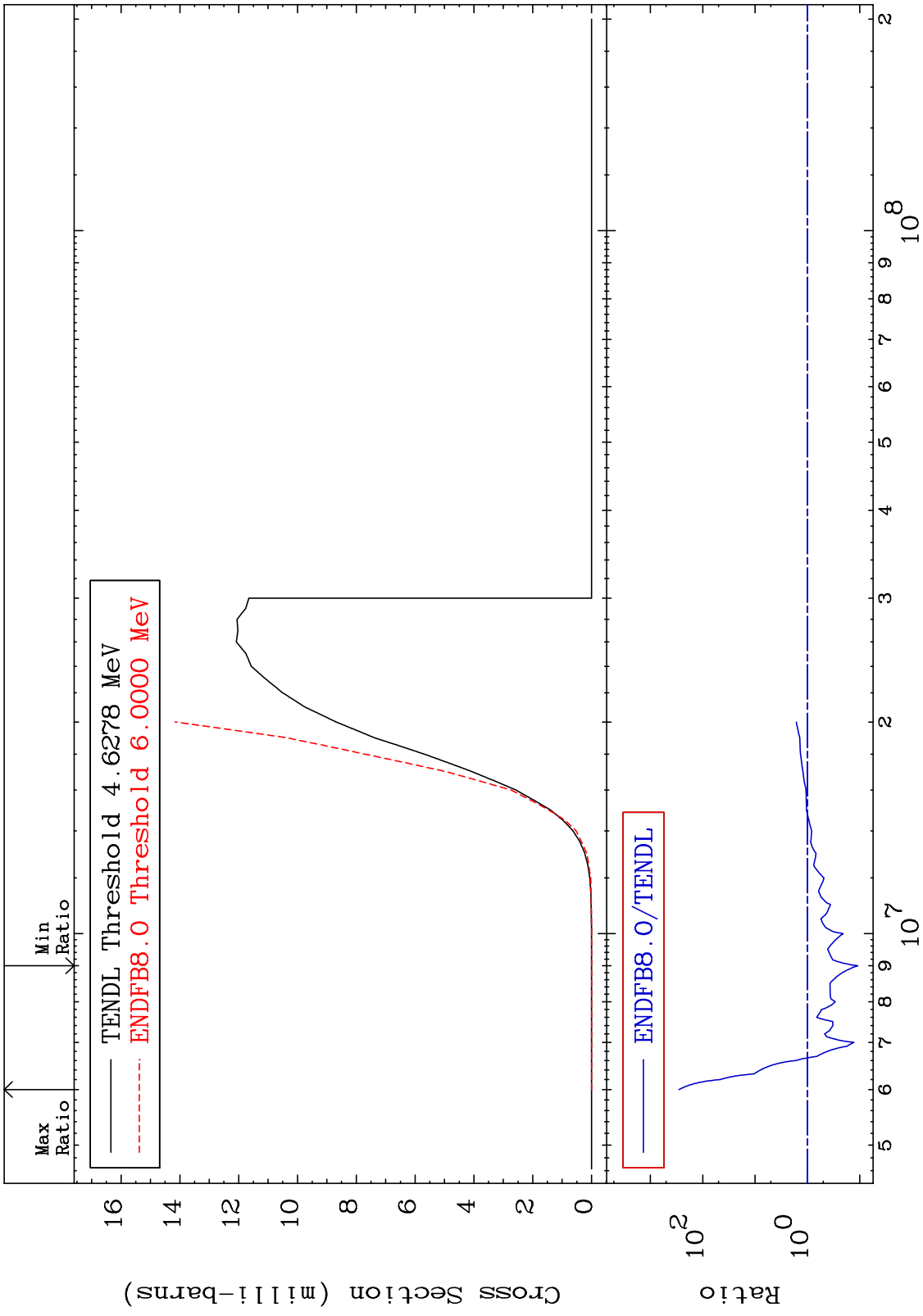
60-Nd-150

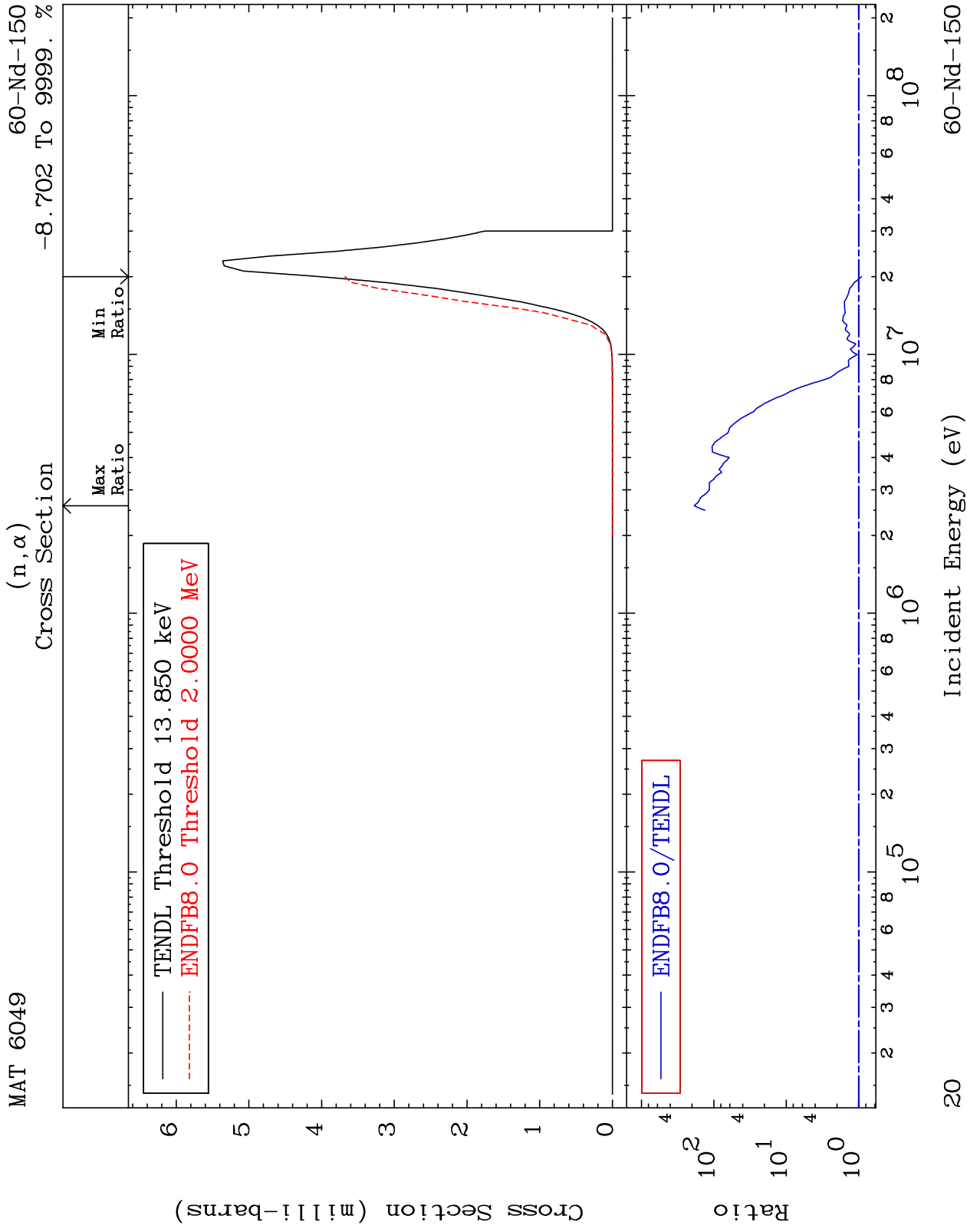
-99.97 To 257.2 %

Cross Section

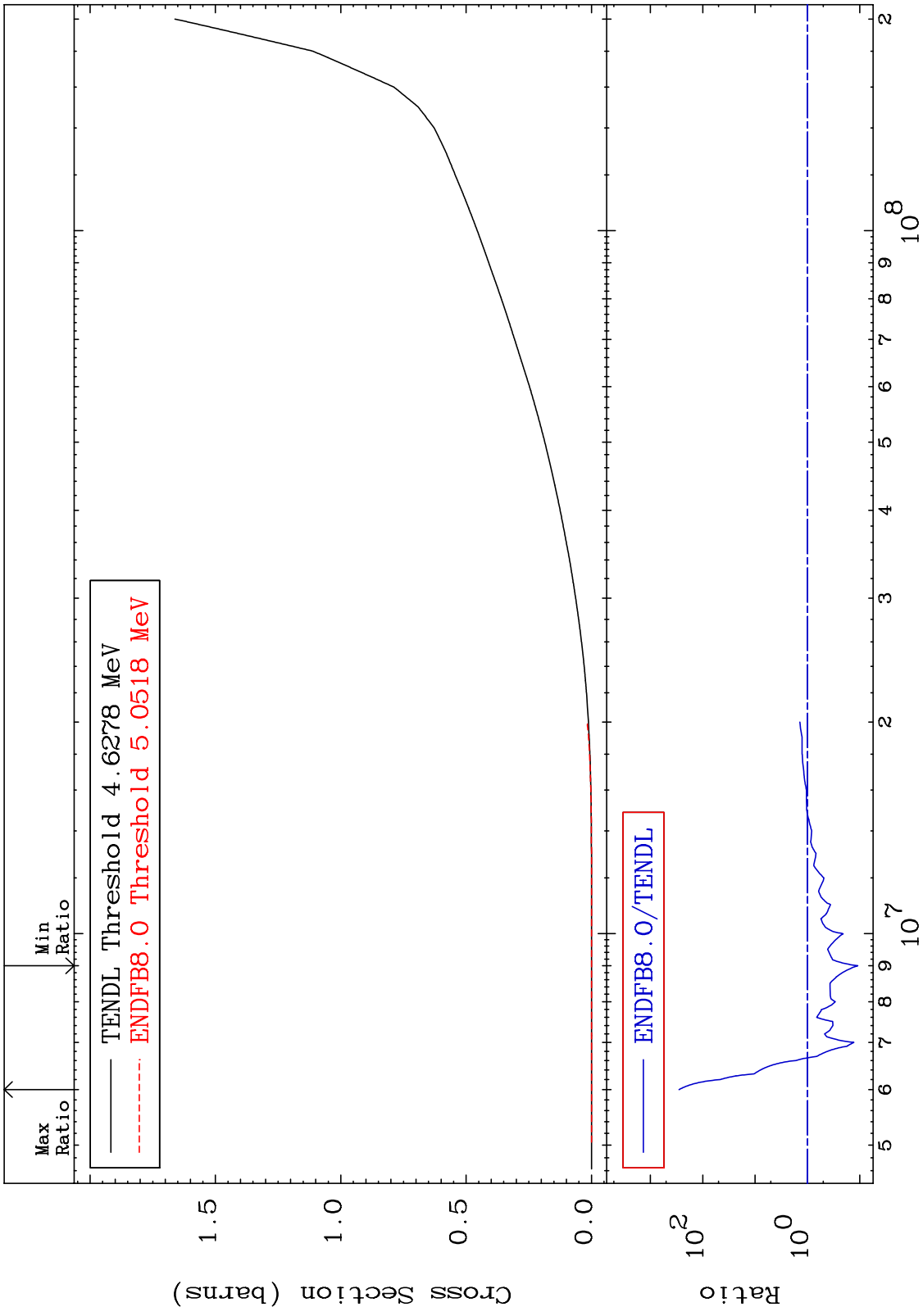


MAT 6049 (n,p) Cross Section 60-Nd-150  
 -89.10 To 9999. %





MAT 6049 Hydrogen Production Cross Section 60-Nd-150  
 -89.10 To 9999. %

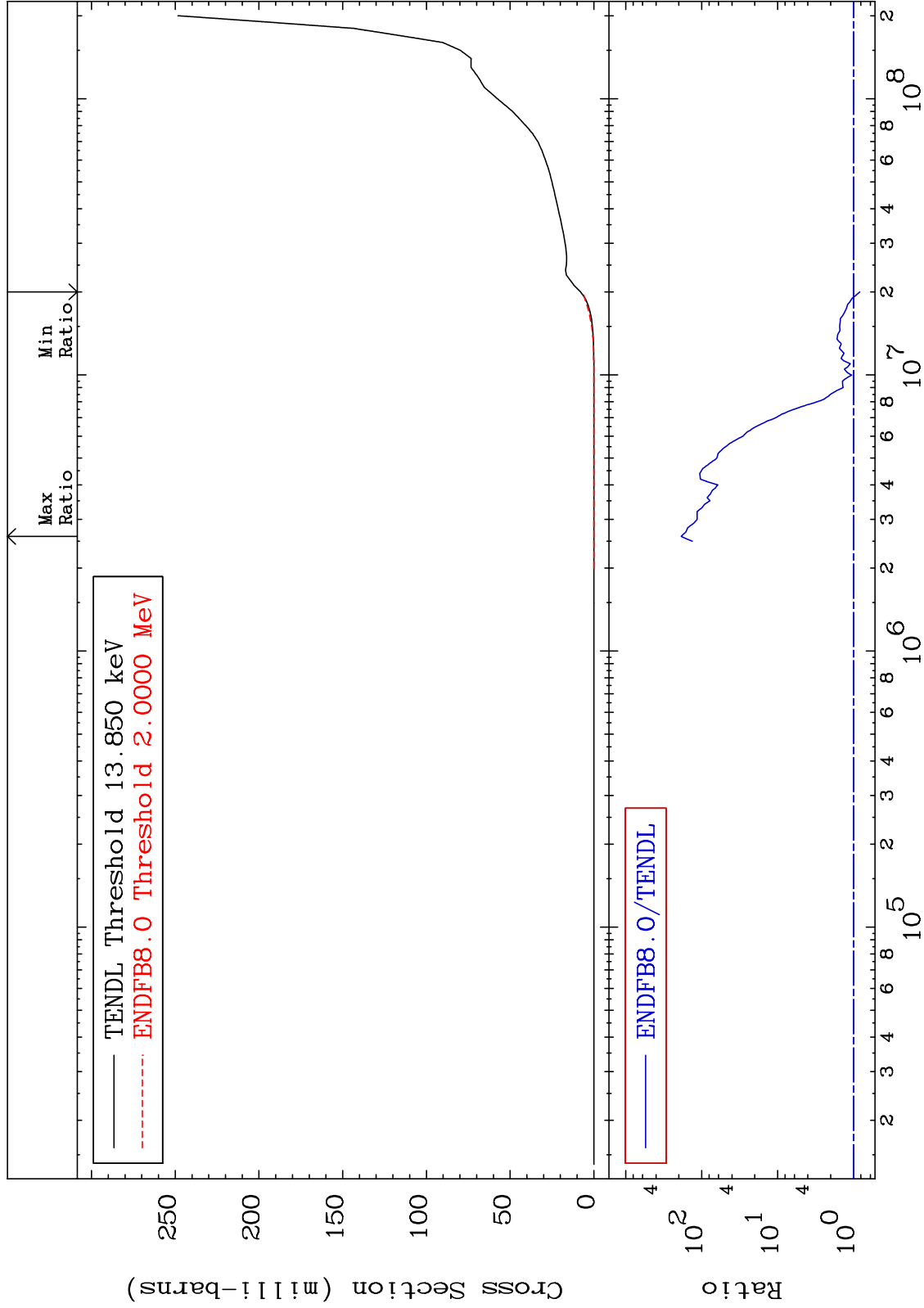


21 Incident Energy (eV) 60-Nd-150

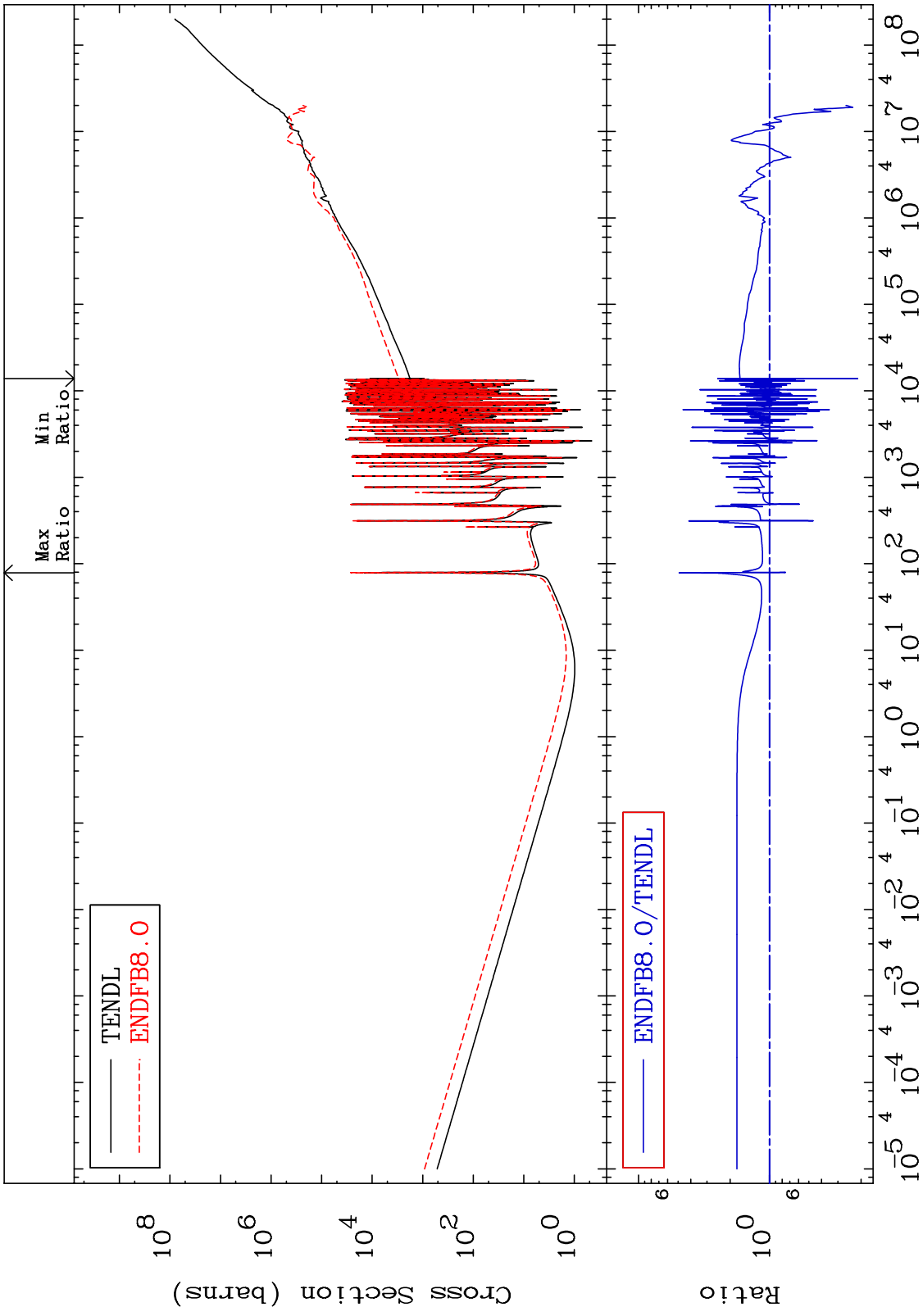
MAT 6049

He-4 Production  
Cross Section

60-Nd-150  
-17.16 To 9999. %



MAT 6049 Kerma total (eV-barns) 60-Nd-150  
 Cross Section -78.87 To 391.1 %



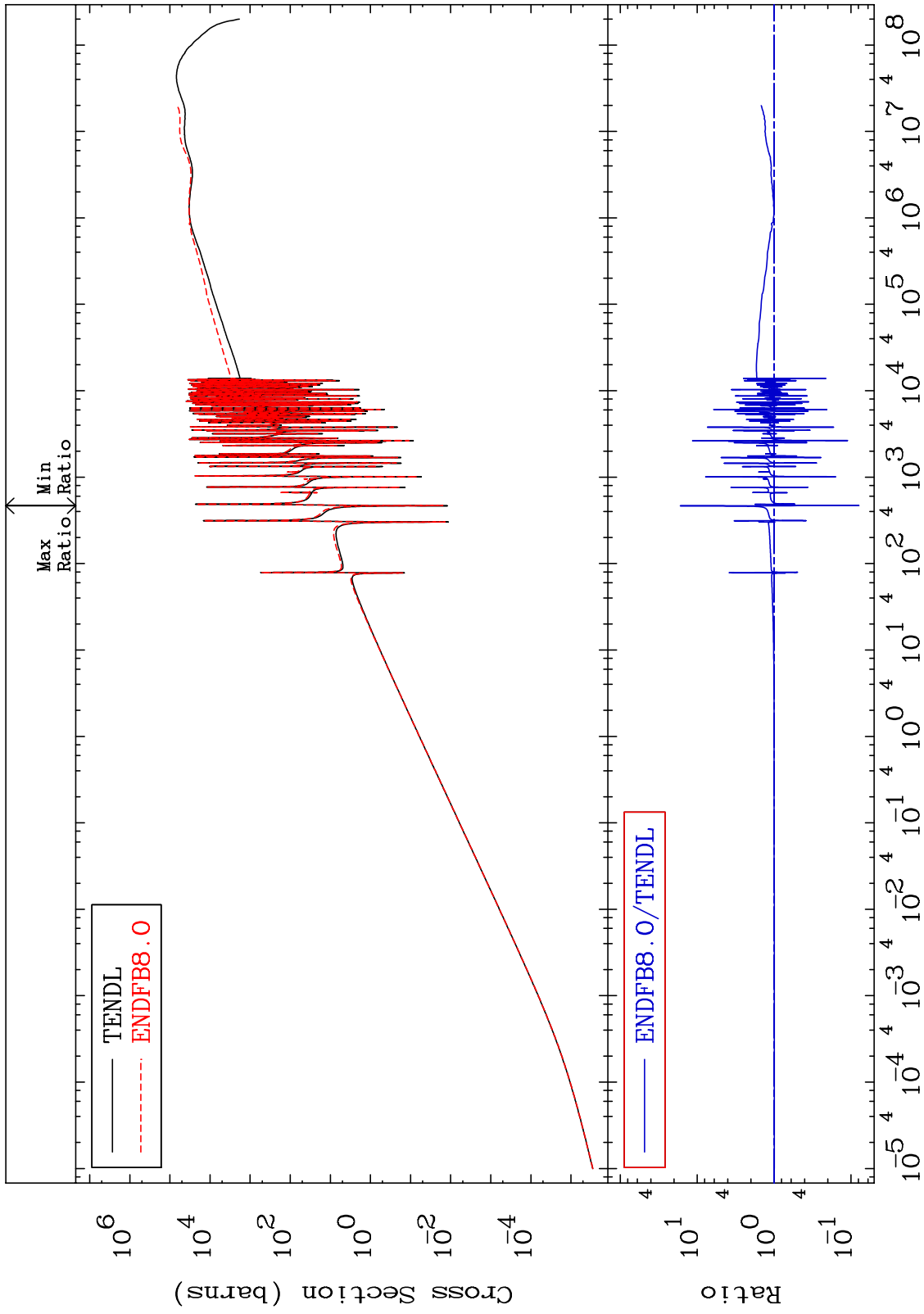
23 60-Nd-150



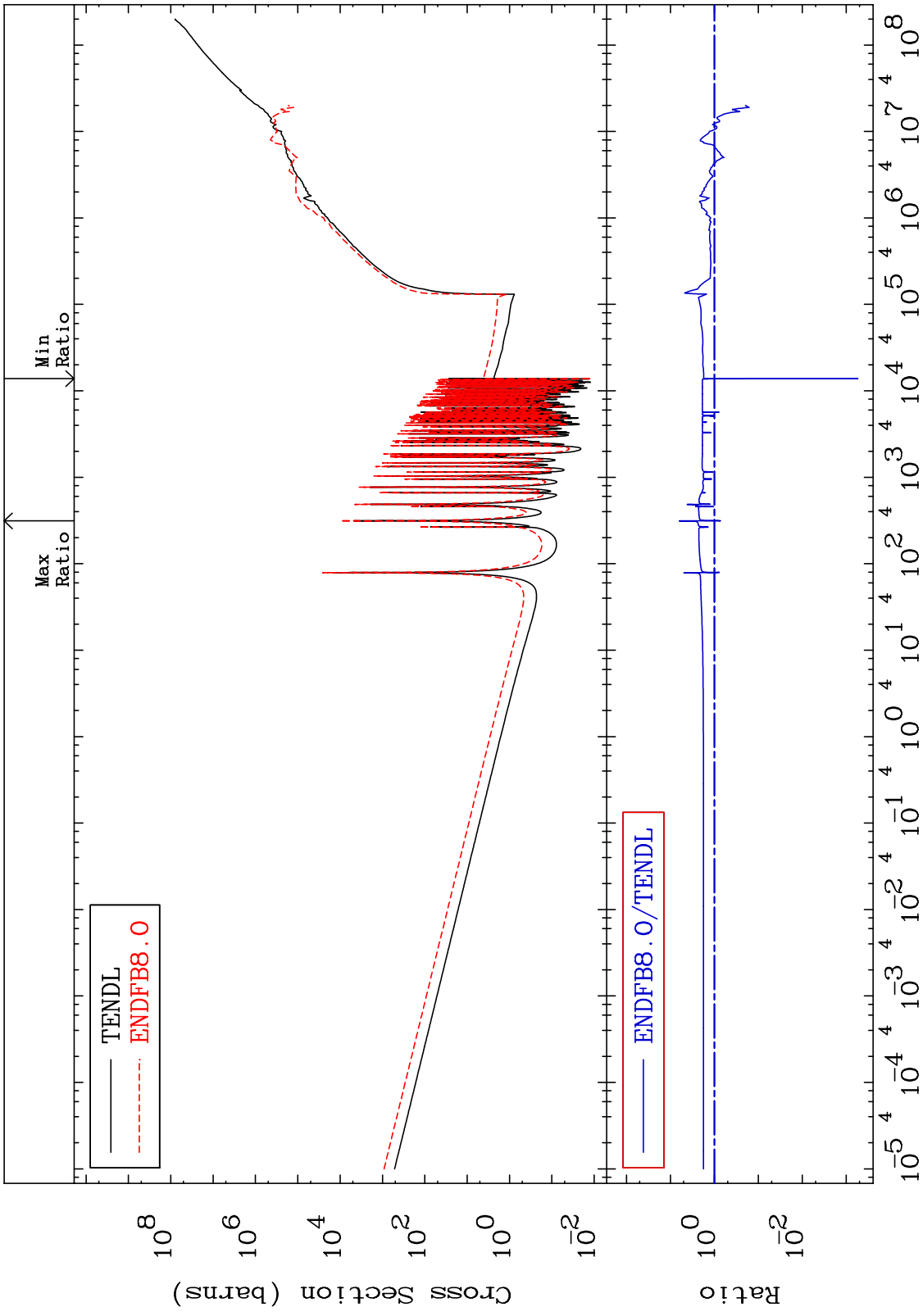
MAT 6049

Kerma elastic  
Cross Section

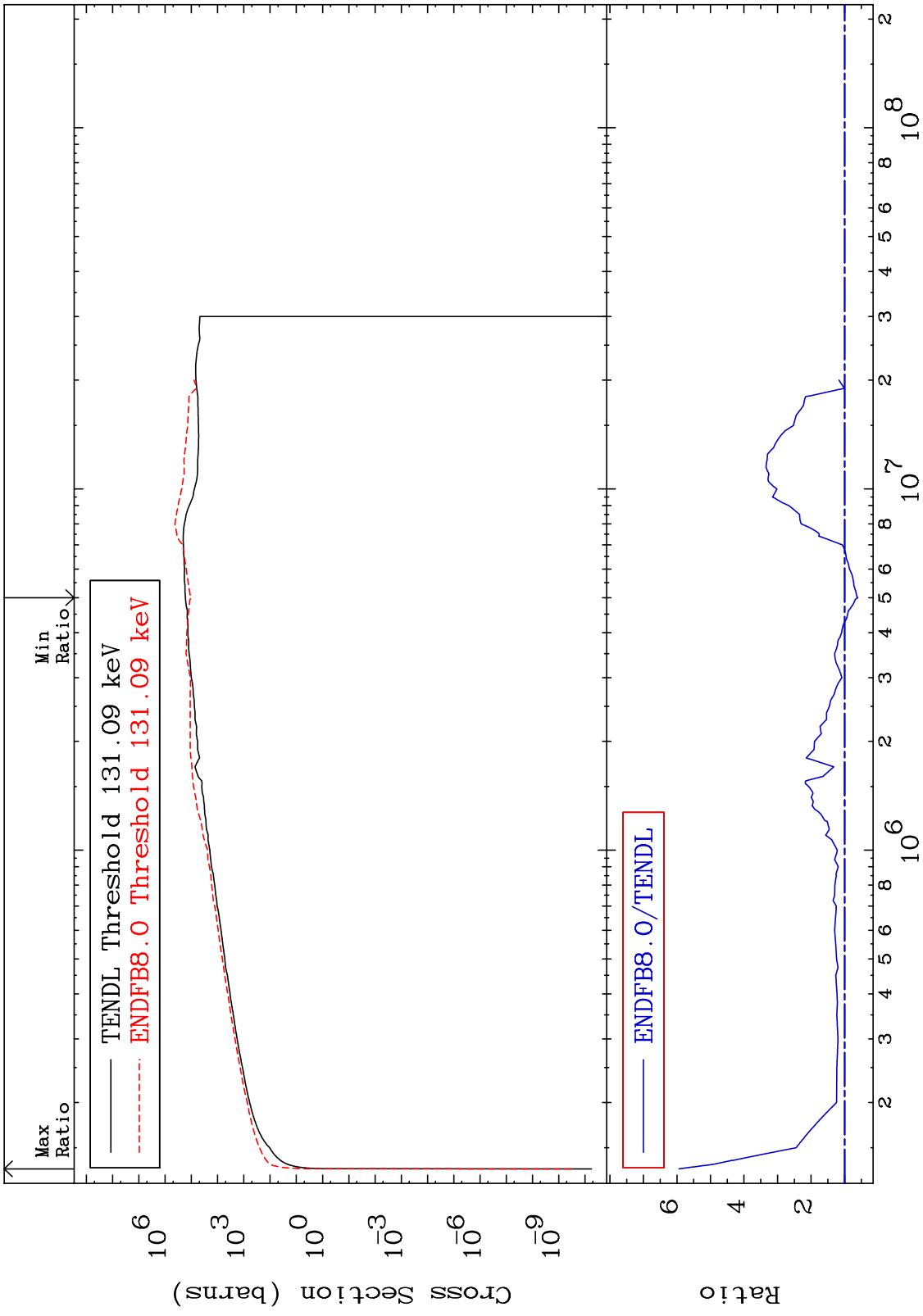
60-Nd-150  
-92.11 To 1563. %



MAT 6049      Kerma non-elastic (all but mt2)      60-Nd-150  
 -99.95 To 537.1 %



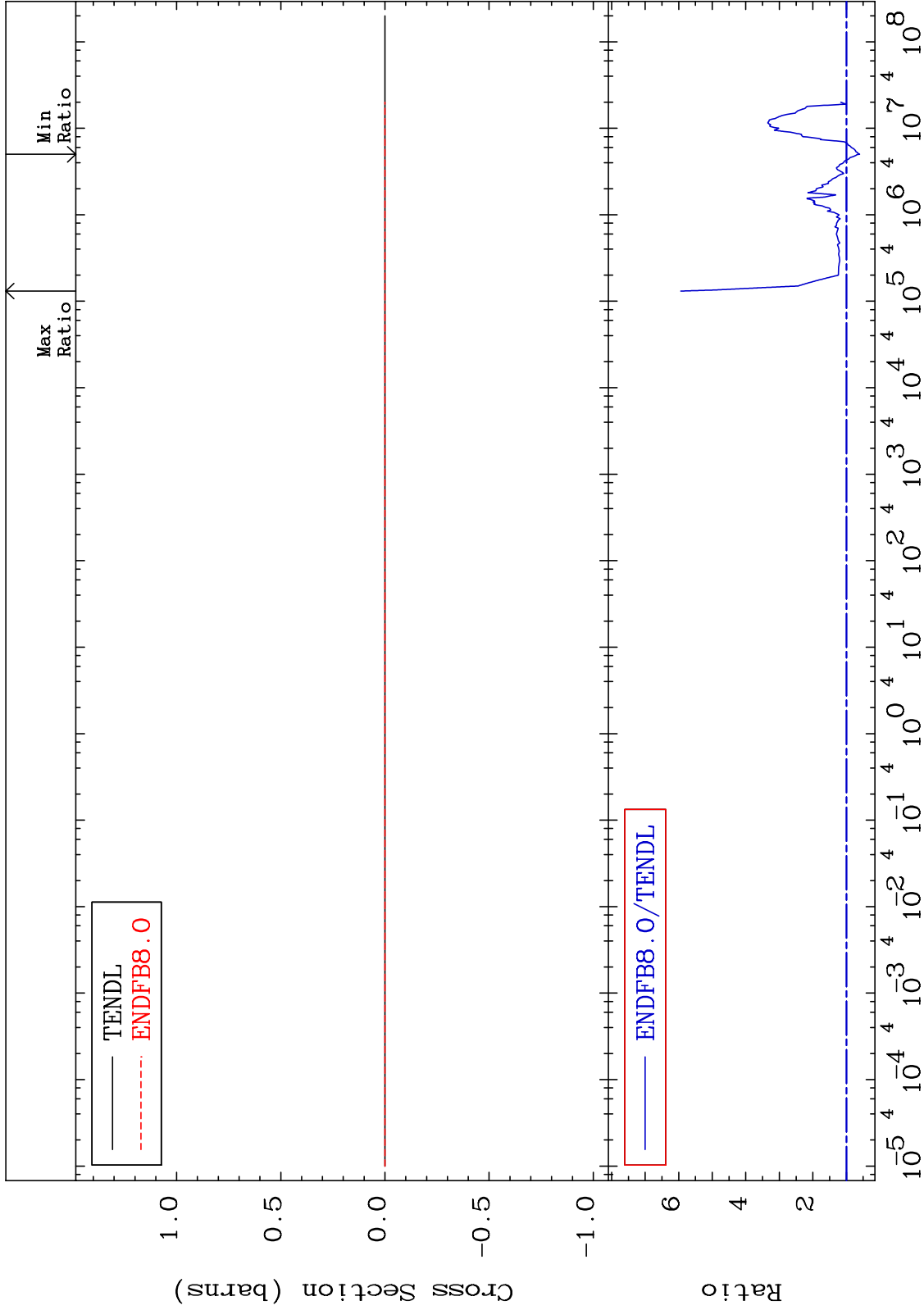
MAT 6049 Kerma inelastic (mt51-91) 60-Nd-150  
 -39.55 To 493.8 %  
 Cross Section



MAT 6049

Kerma fission (mt18 or mt19-20-21-38)  
Cross Section

60-Nd-150  
-39.55 To 493.8 %

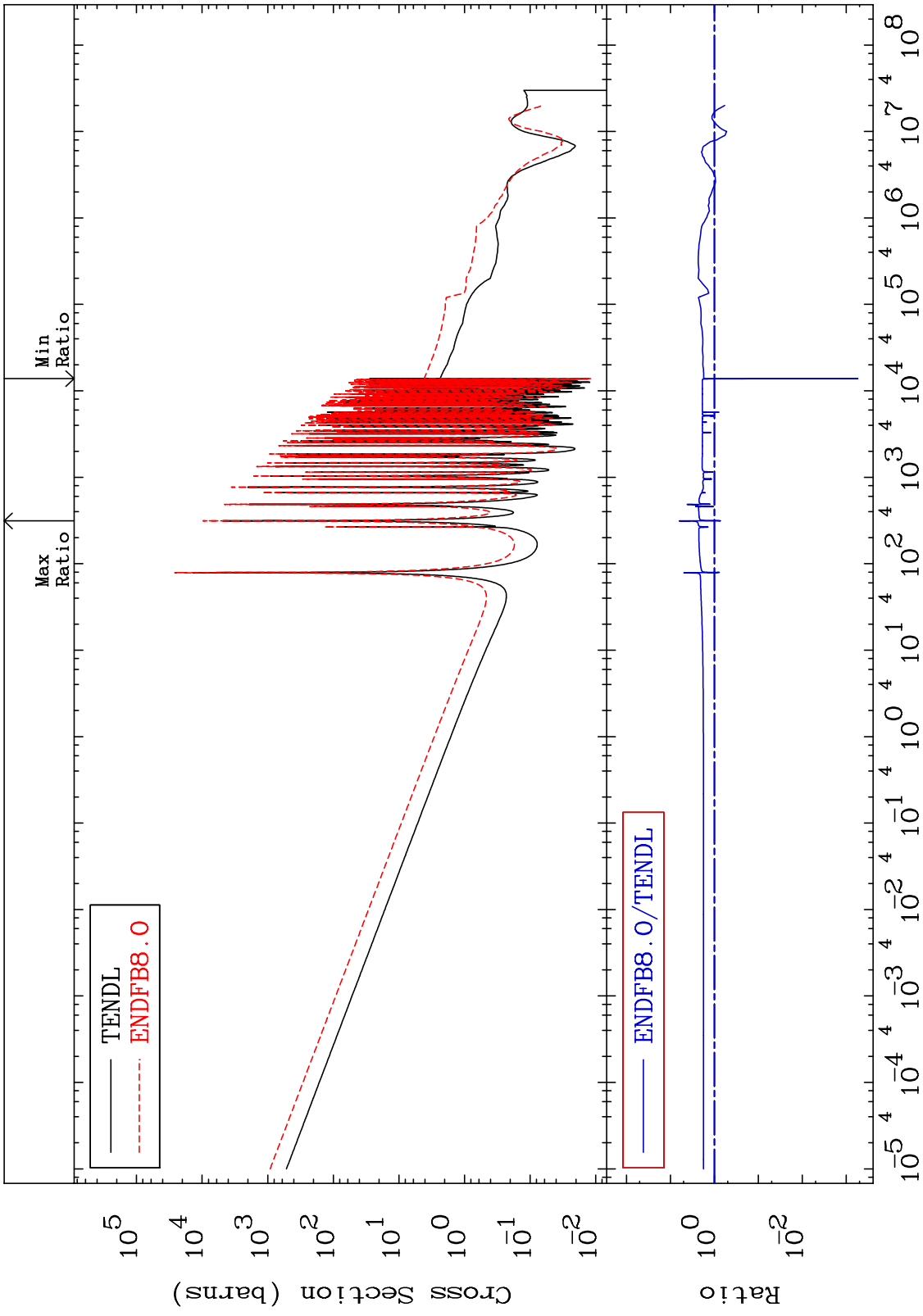


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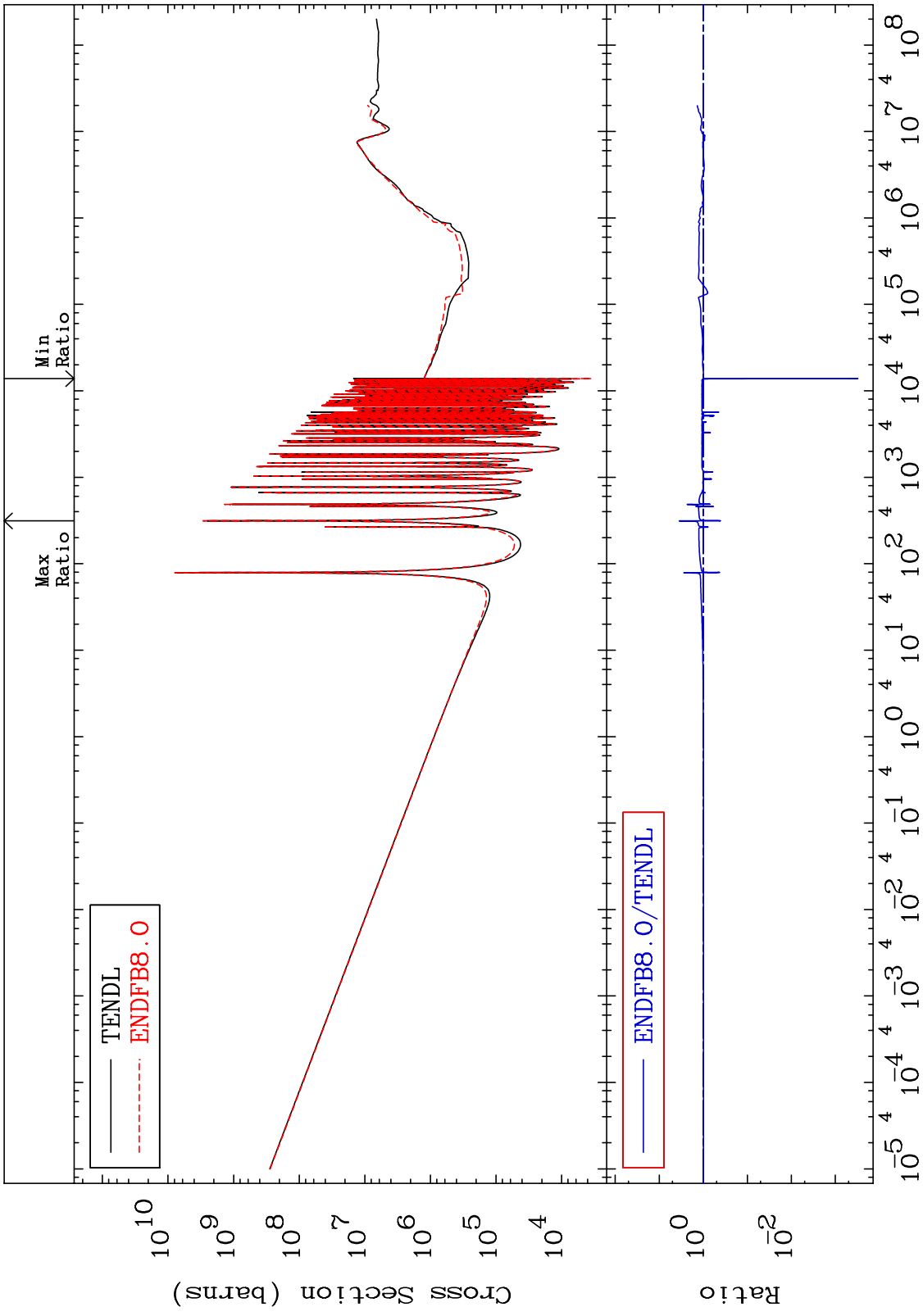
Incident Energy (eV)

60-Nd-150

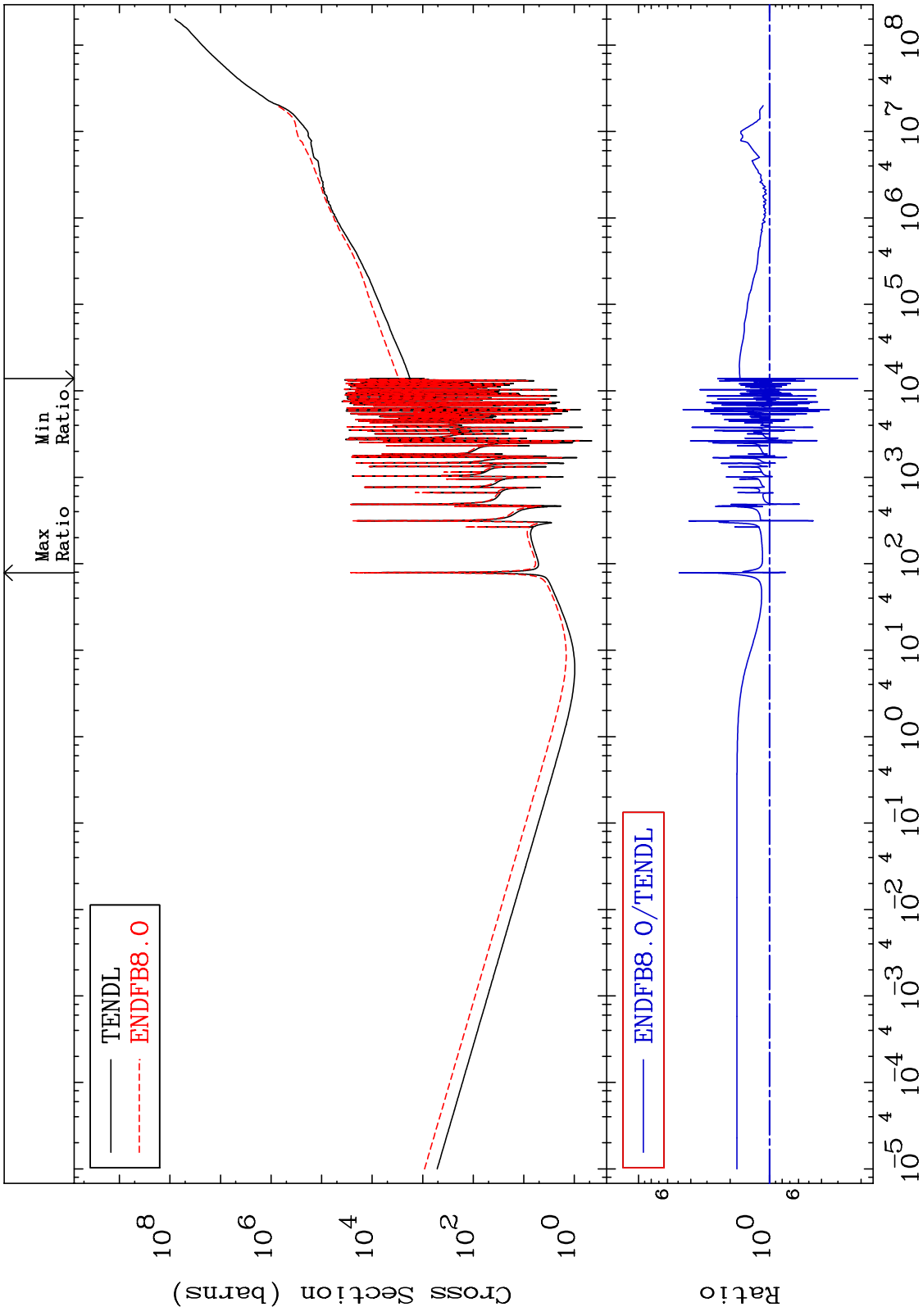
MAT 6049      Kerma capture (mt102)      60-Nd-150  
 -99.95 To 537.1 %



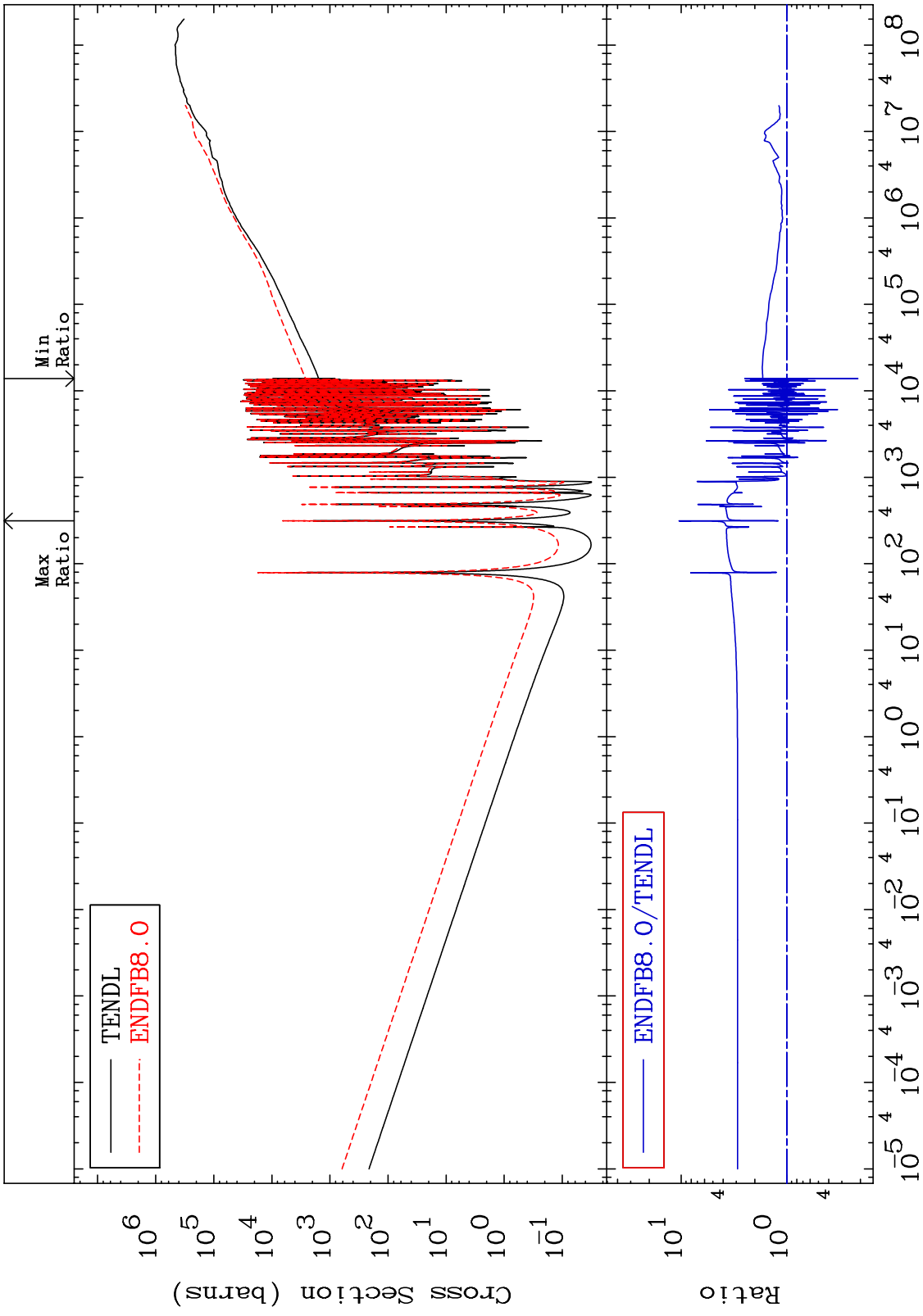
MAT 6049      Total photon (eV-barns) Cross Section      60-Nd-150  
 -99.97 To 254.8 %



MAT 6049 Total kinematic kerma (high limit) 60-Nd-150  
 Cross Section -78.87 To 391.1 %

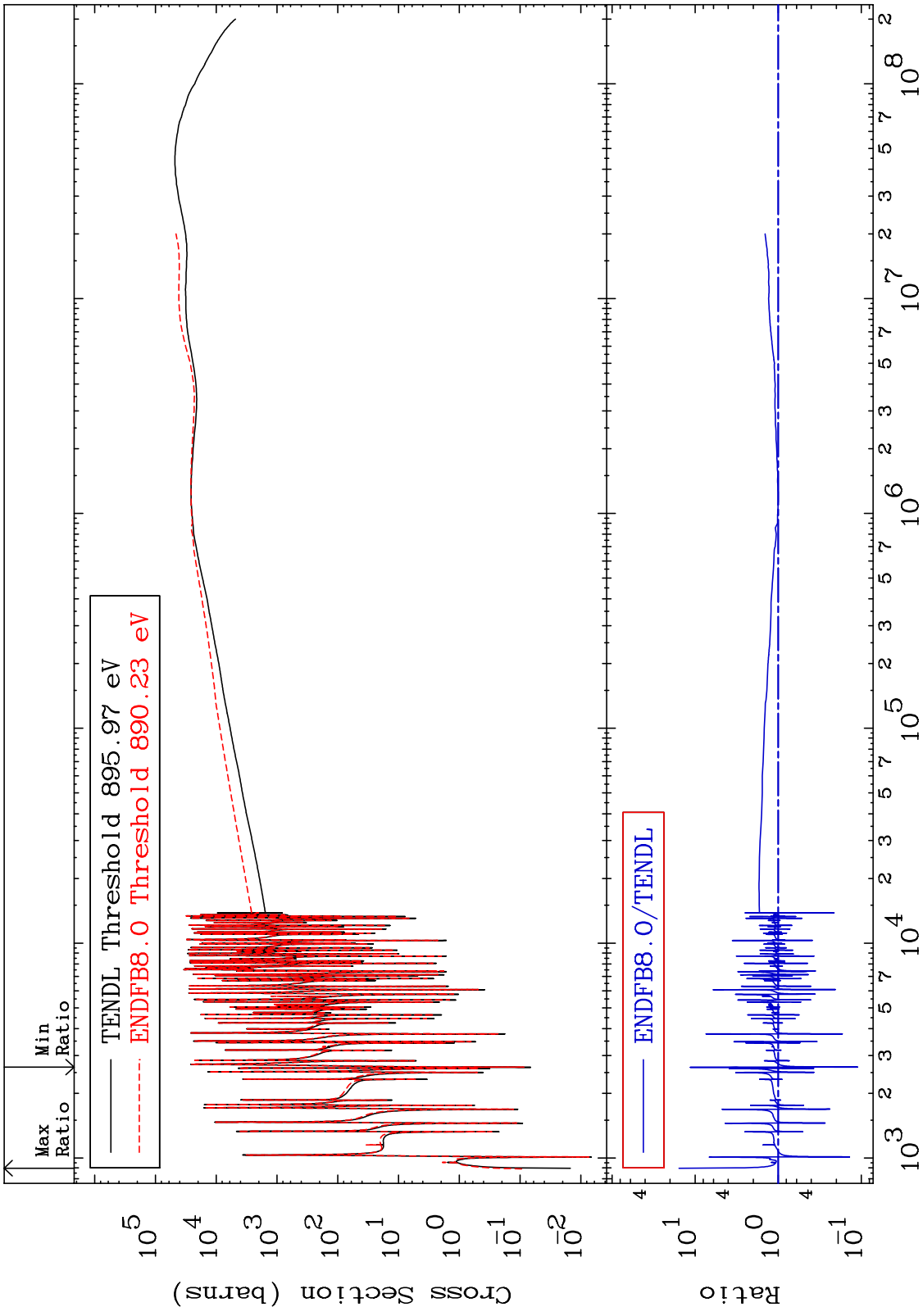


MAT 6049      Dpa total (eV-barns)      60-Nd-150  
 -78.82 To 945.5 %

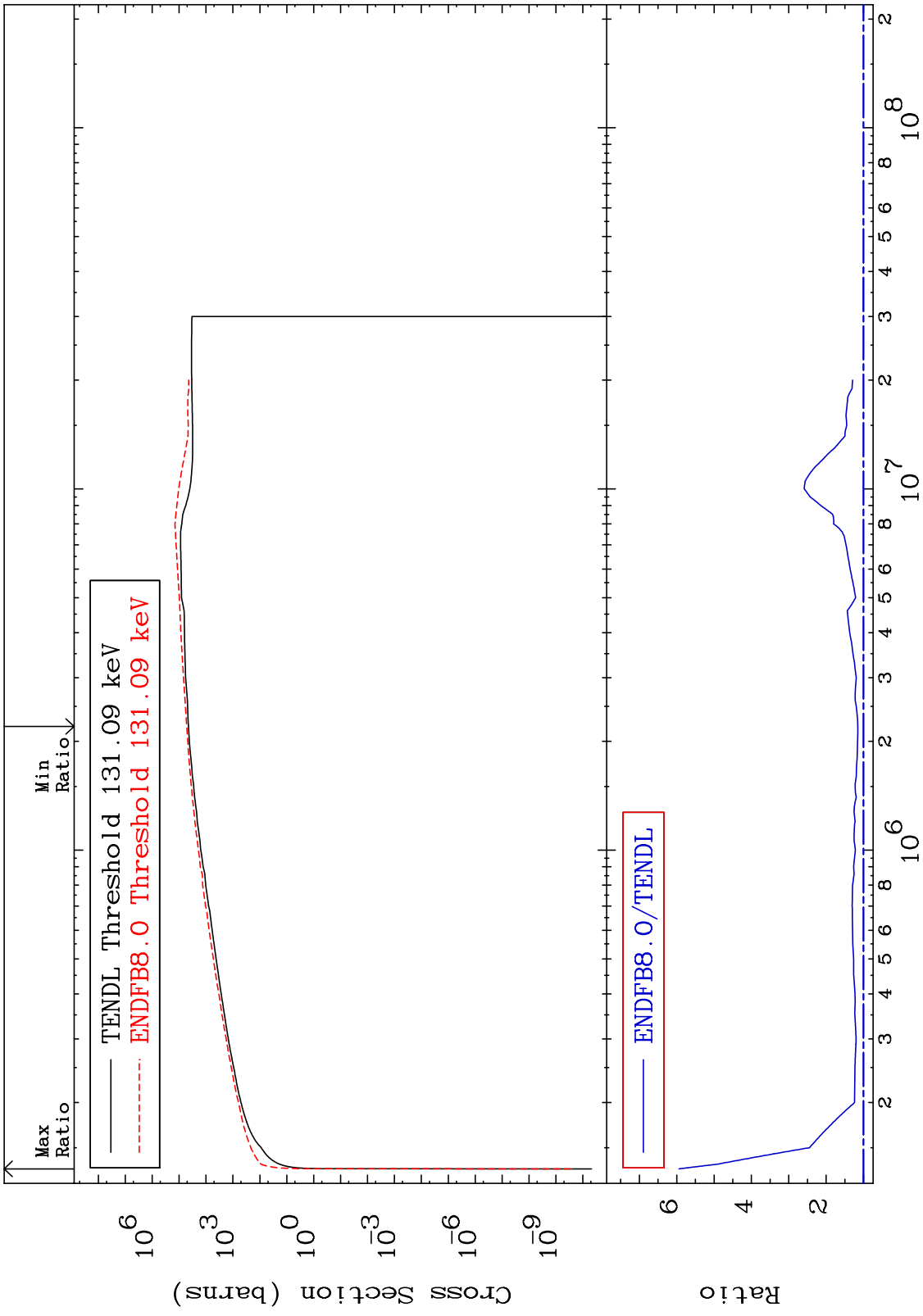




MAT 6049      Dpa elastic (mt2)      60-Nd-150  
 Cross Section      -88.99 To 1461. %



MAT 6049      Dpa inelastic (mt51-91)      60-Nd-150  
 Cross Section      15.10 To 493.8 %



MAT 6049      Dpa disappearance (mt102 -120)      60-Nd-150  
 Cross Section      -99.91 To 945.5 %

