

Program Complot  
(Version 2021-1)

by

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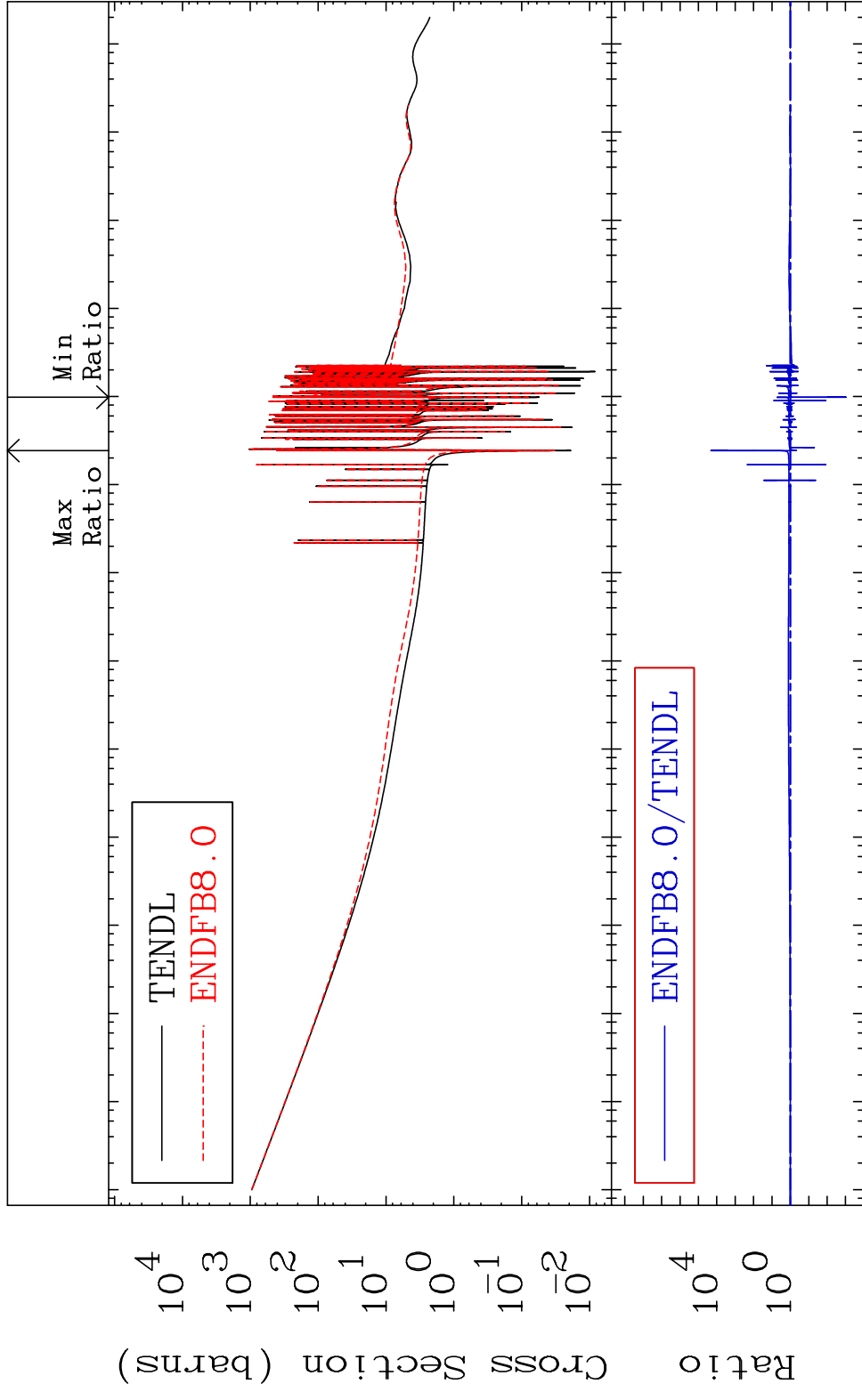
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E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6025

Total Cross Section  
60-Nd-142  
-99.91 To 9999. %



10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

1 Incident Energy (eV) 60-Nd-142

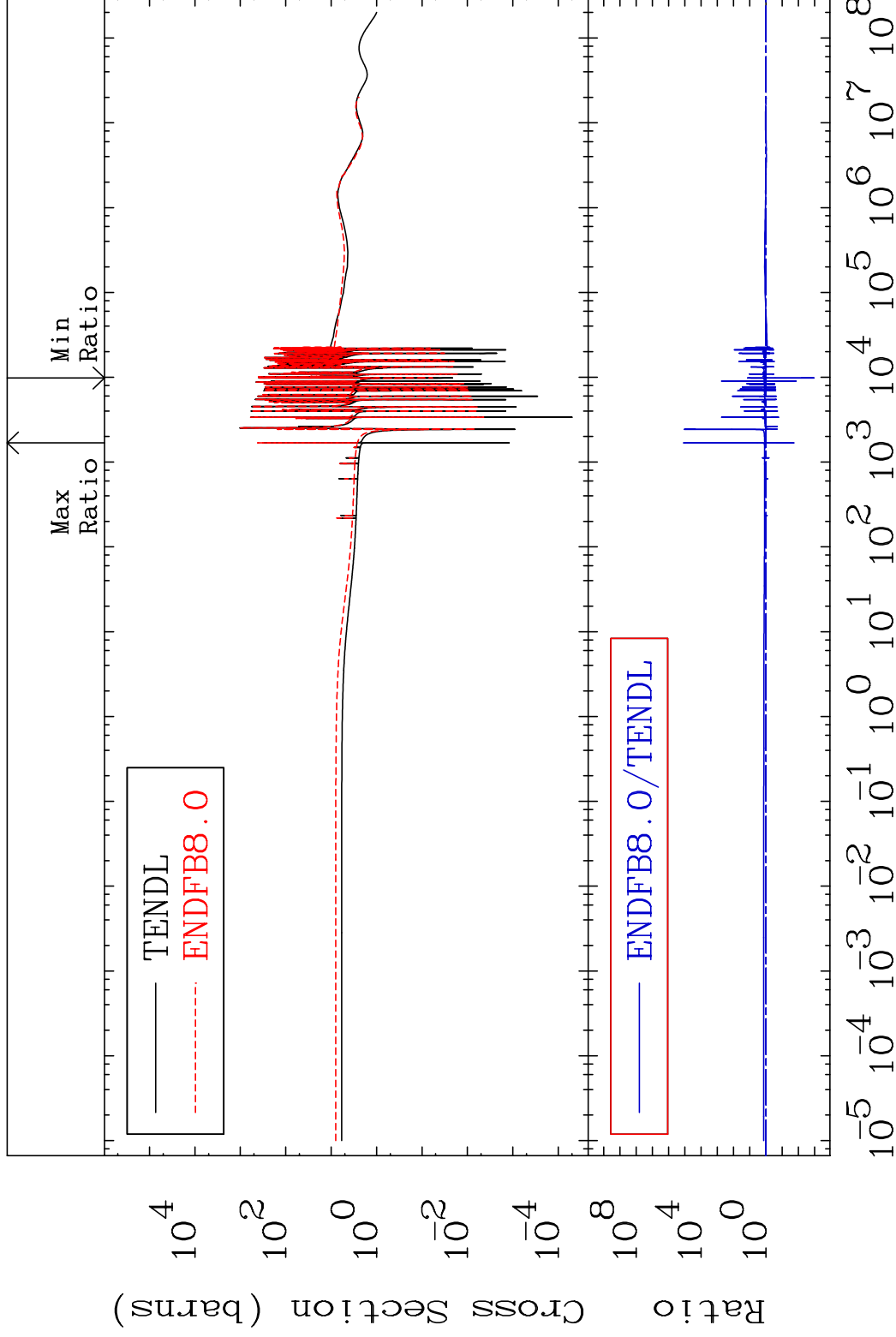
MAT 6025

Elastic

60-Nd-142

Cross Section

-99.89 To 9999. %

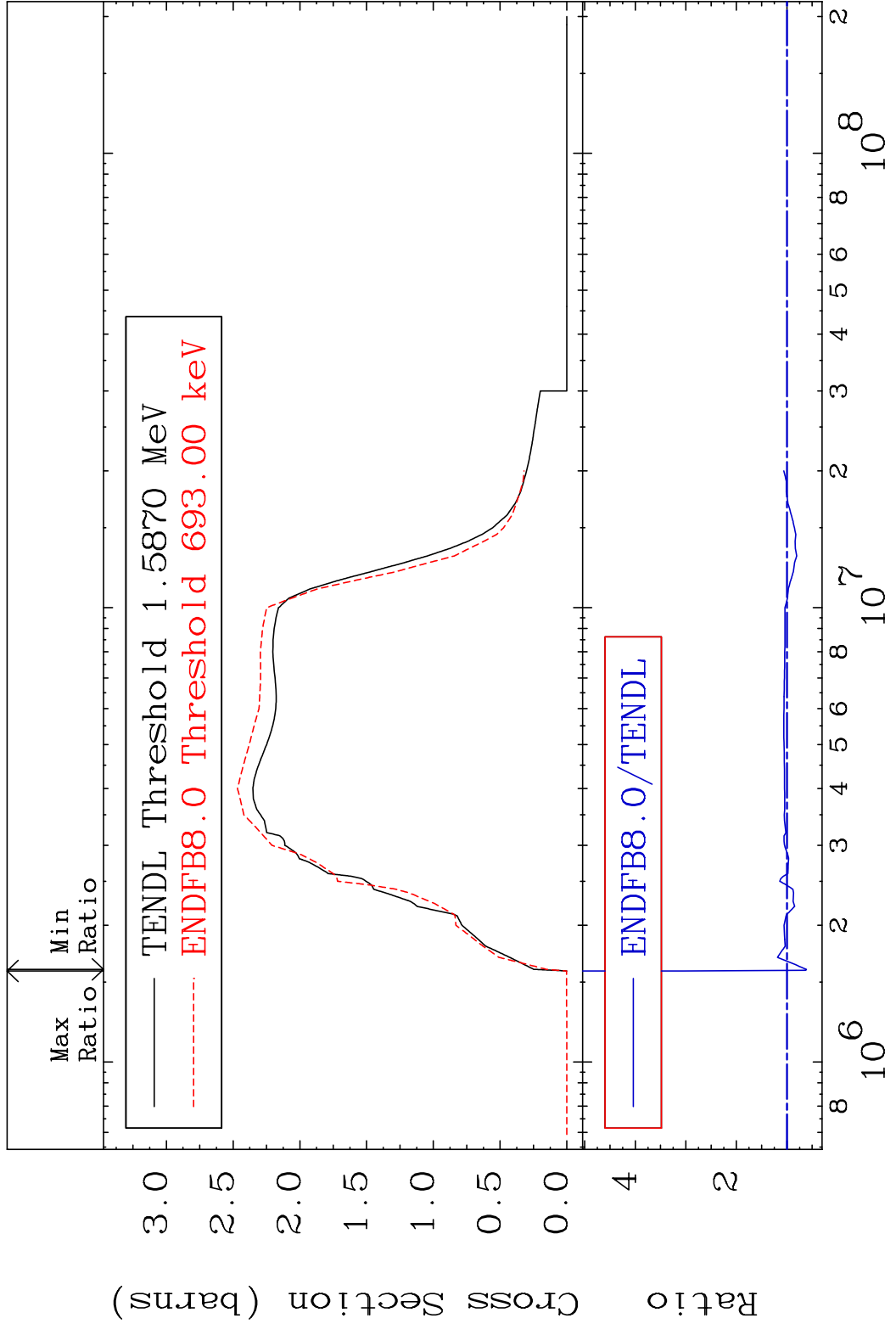


2

Incident Energy (eV)

60-Nd-142

MAT 6025 Inelastic 60-Nd-142  
 Cross Section -38.50 To 217.1 %



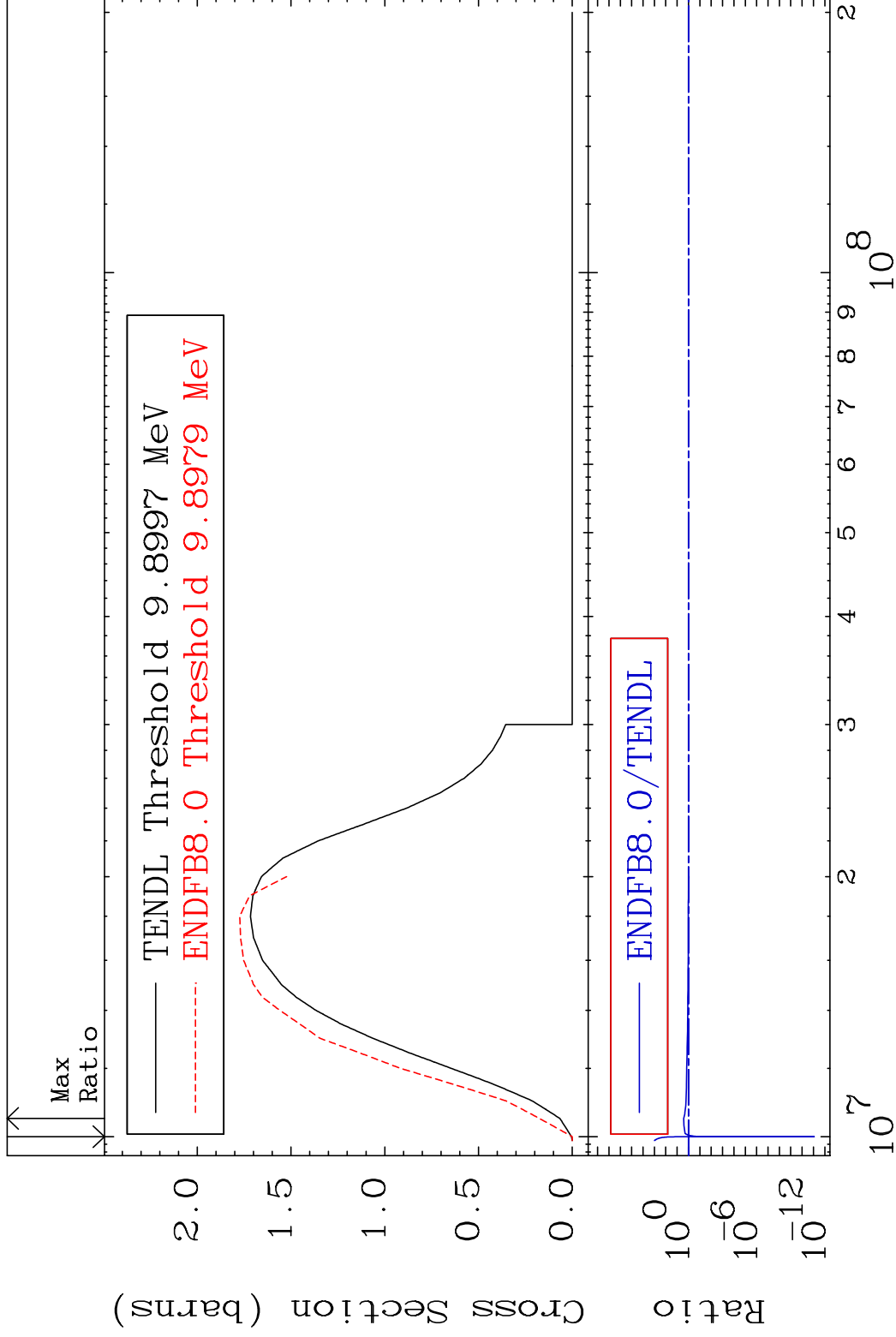
3 8 10<sup>6</sup> 2 2 3 3 4 4 5 5 6 6 8 8 10<sup>8</sup> 2 60-Nd-142

MAT 6025

(n,2n)

60-Nd-142

Cross Section -100.0 To 164.8 %



Incident Energy (eV)

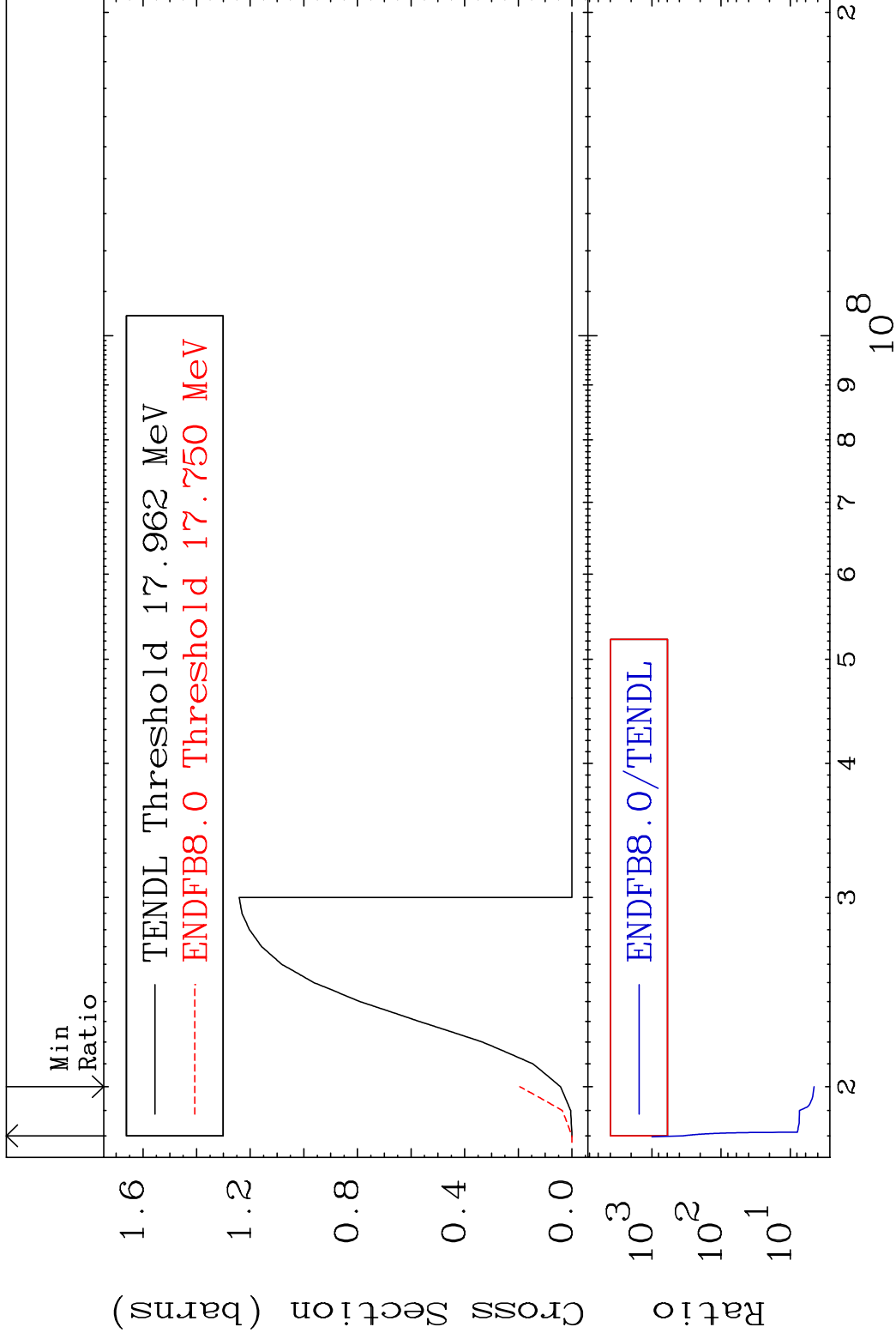
60-Nd-142

MAT 6025

(n,3n)

60-Nd-142

Cross Section 352.3 To 9999. %



5

Incident Energy (eV)

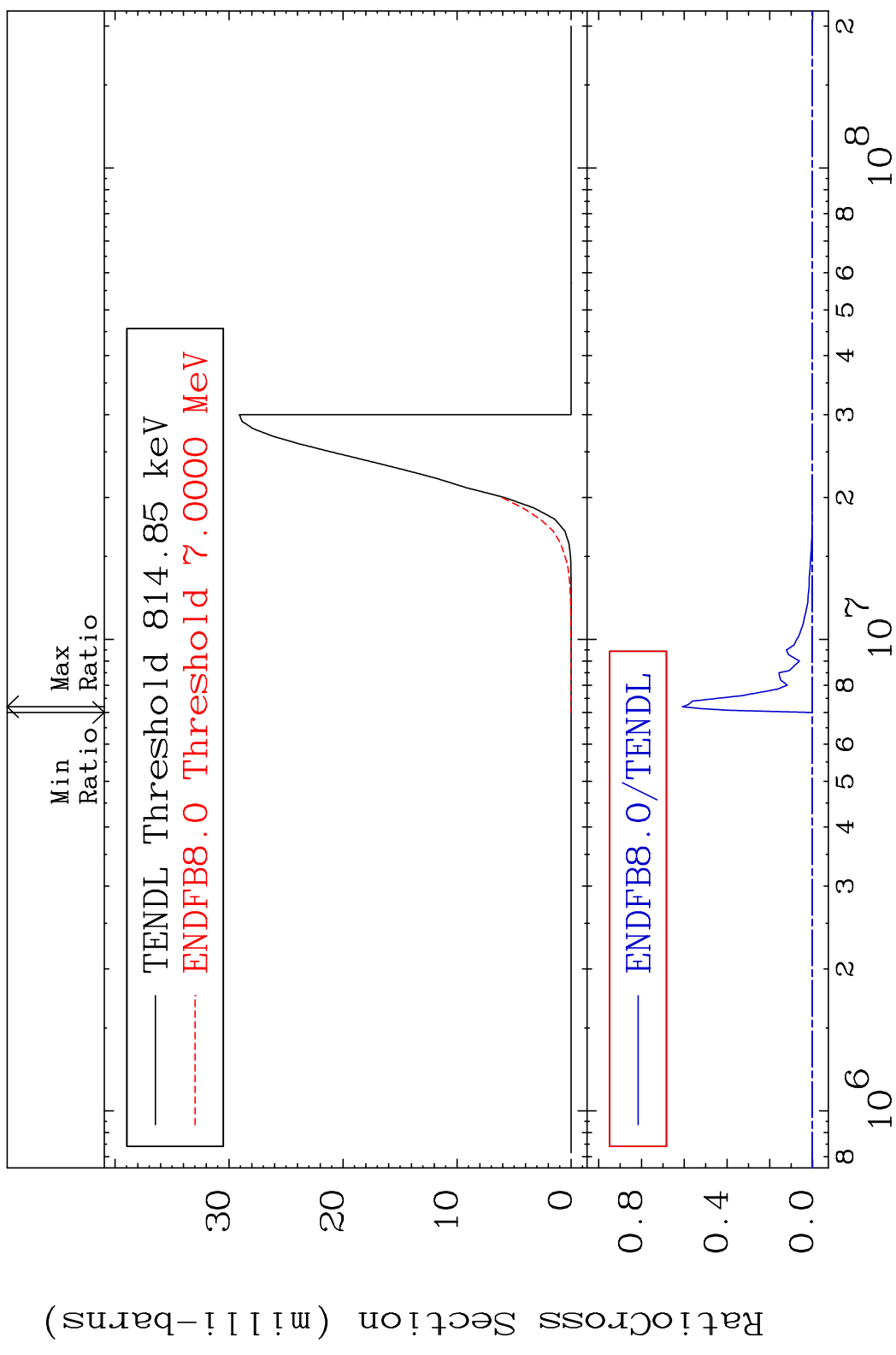
60-Nd-142

MAT 6025

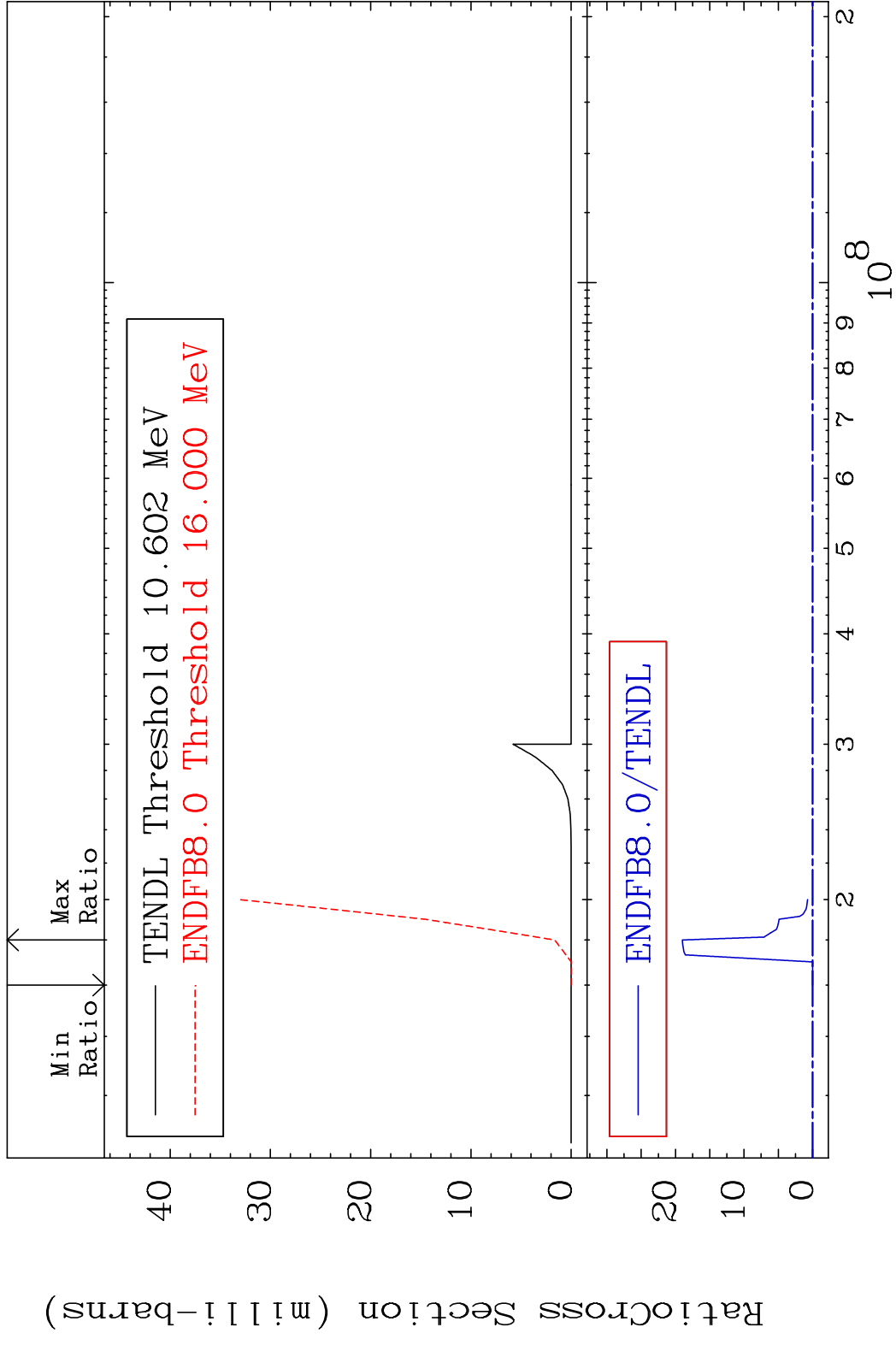
(n, n')  $\alpha$

60-Nd-142

Cross Section -100.0 To 9999. %

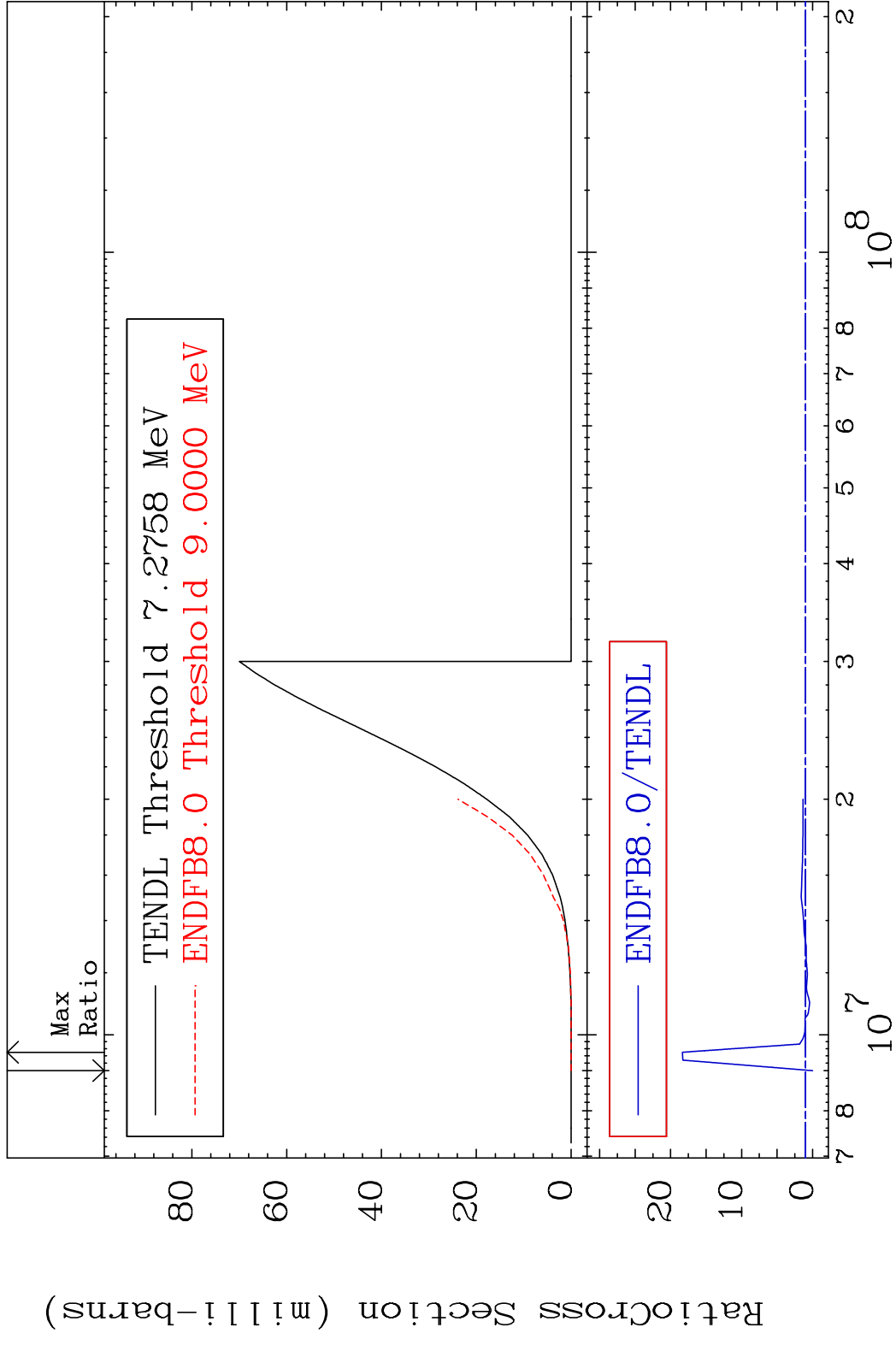


MAT 6025 (n,2n)  $\alpha$  60-Nd-142  
 Cross Section -100.0 To 9999. %



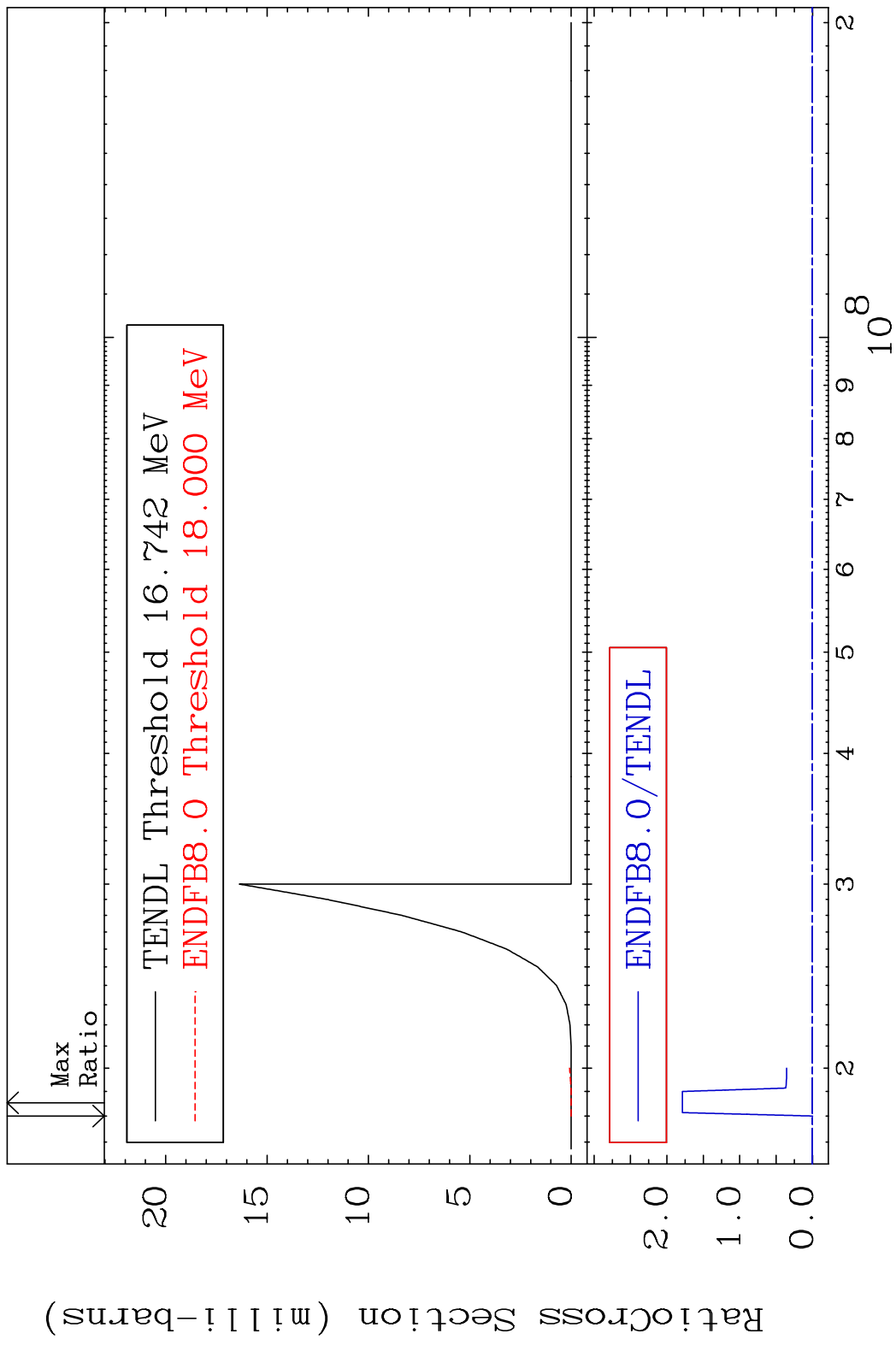


MAT 6025 (n, n') p 60-Nd-142  
 Cross Section -100.0 To 1735. %

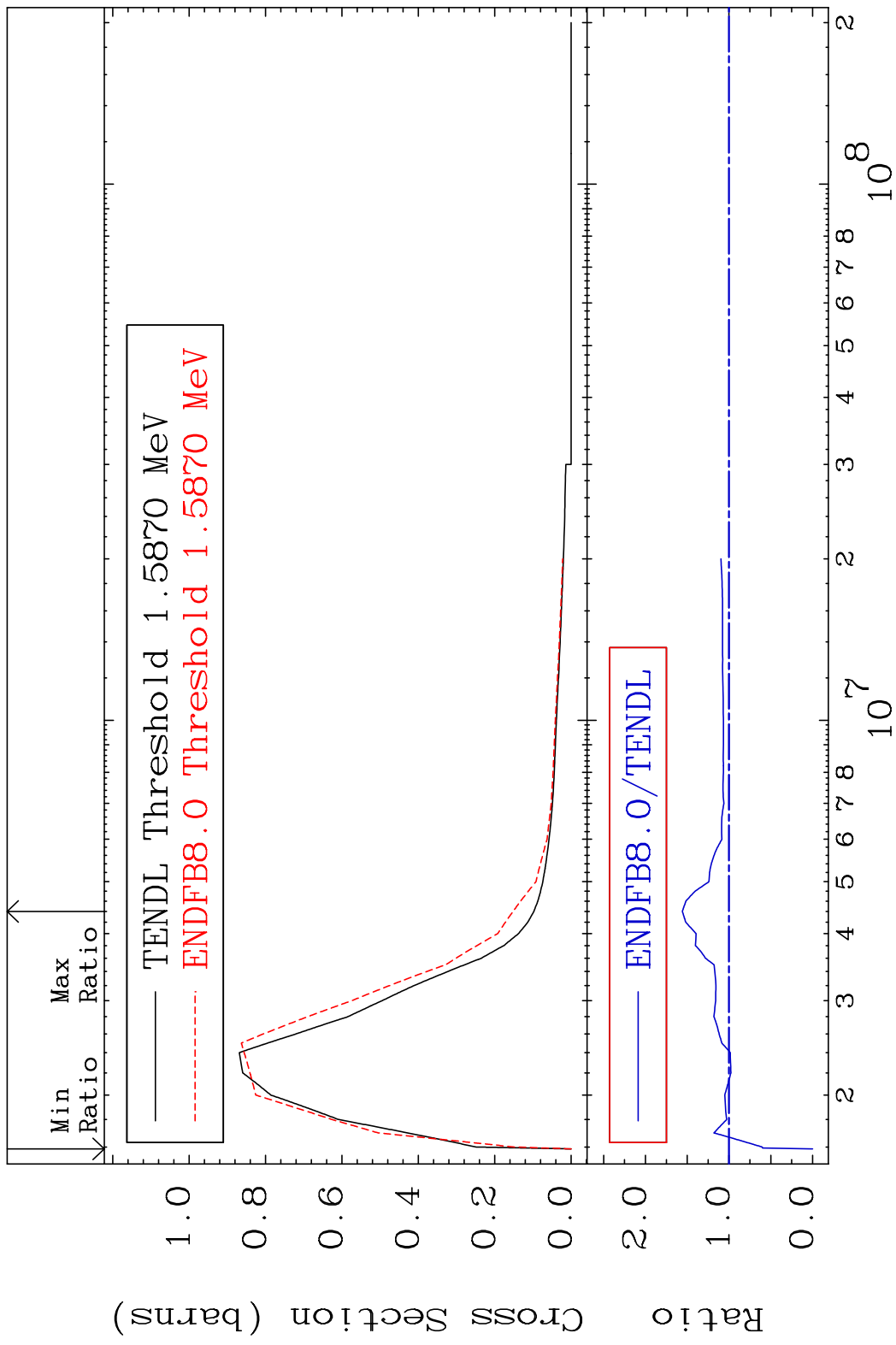


8 8 Incident Energy (eV) 60-Nd-142

MAT 6025 (n,2n) p 60-Nd-142  
 Cross Section -100.0 To 9999. %

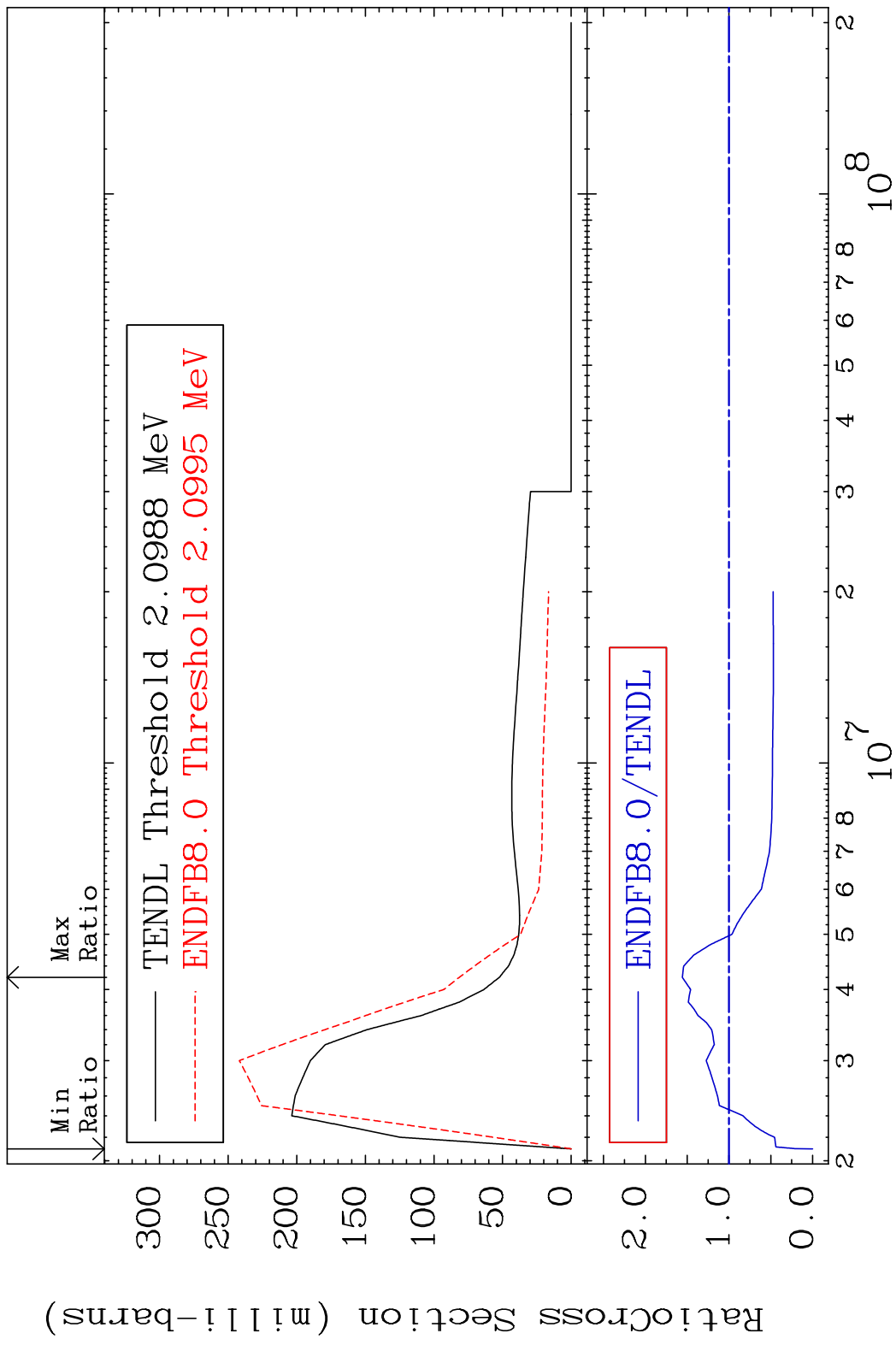


MAT 6025 MT= 51 (n,n') Level 60-Nd-142  
 Cross Section -100.0 To 55.84 %

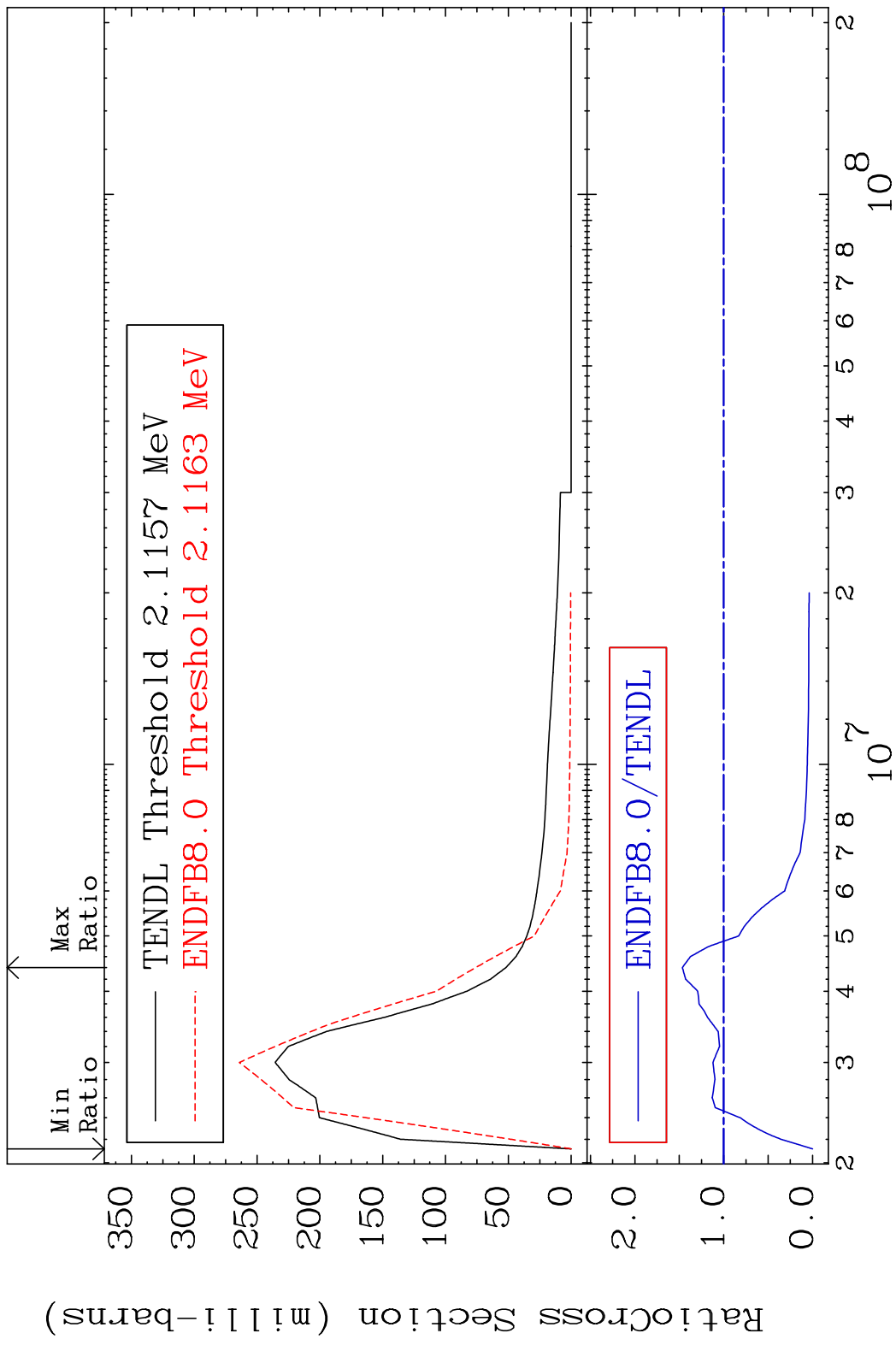


10 Incident Energy (eV) 60-Nd-142

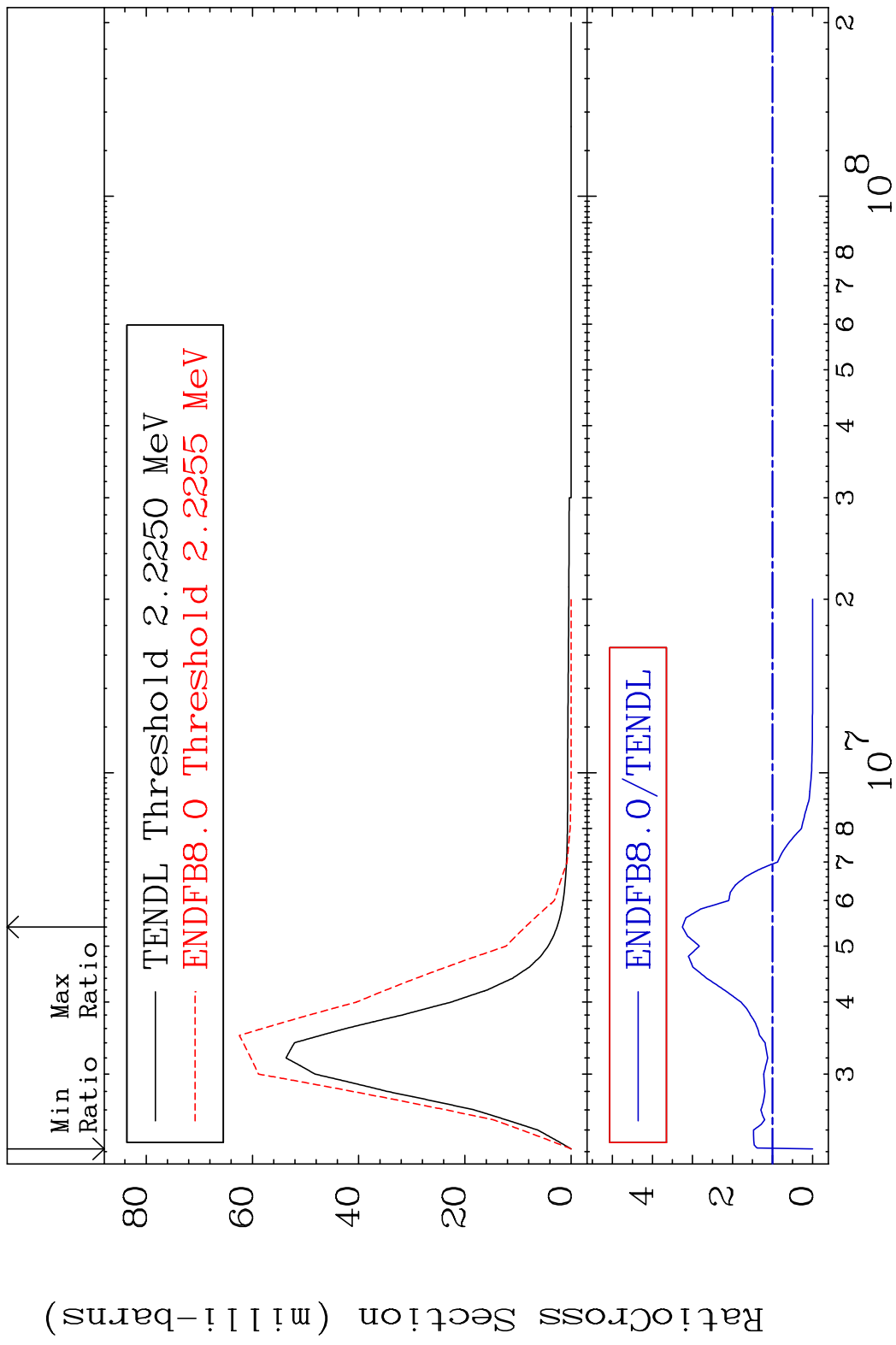
MAT 6025 MT= 52 (n, n') Level 60-Nd-142  
 Cross Section -100.0 To 55.77 %



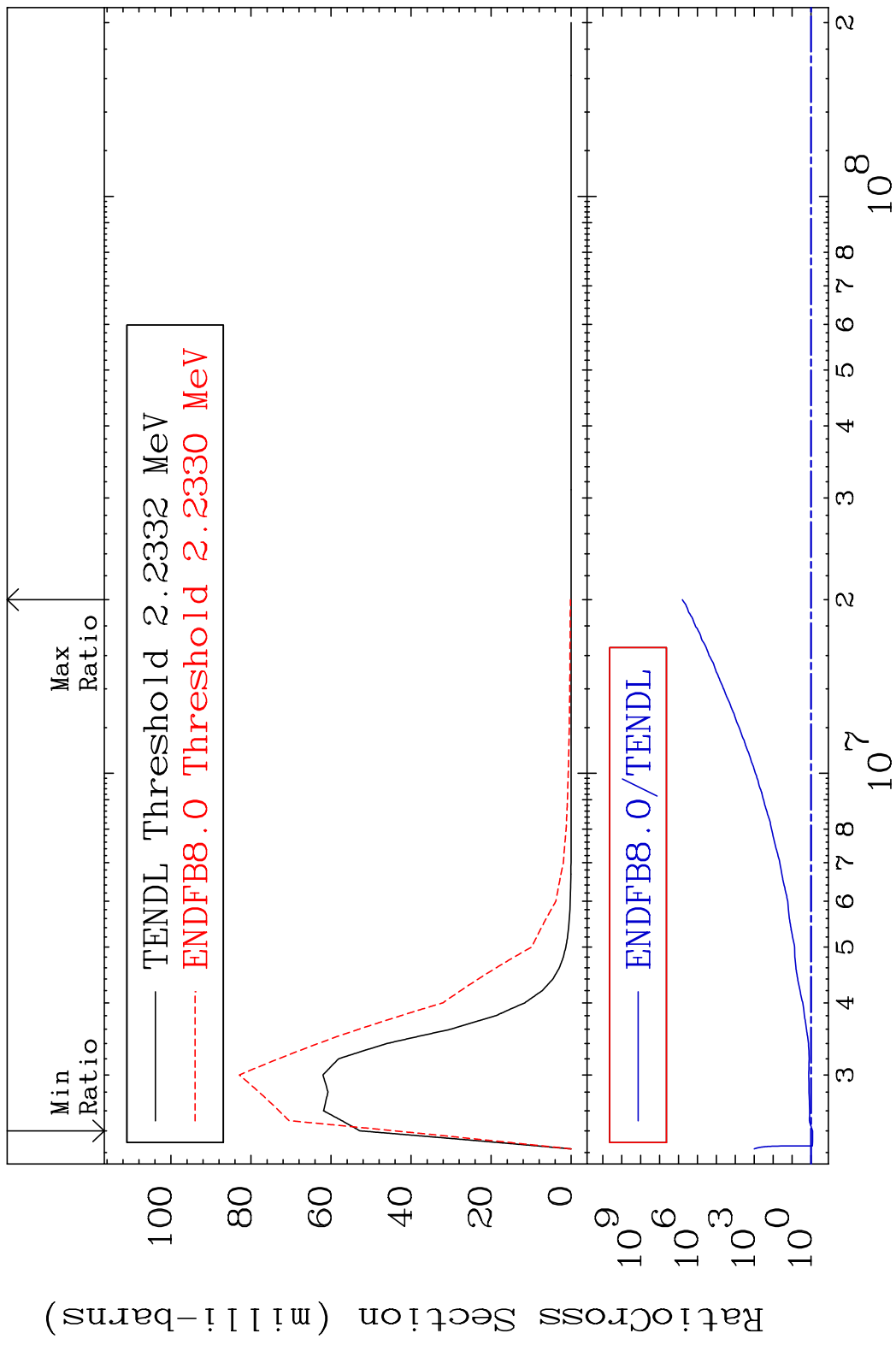
MAT 6025 MT= 53 (n,n') Level 60-Nd-142  
 Cross Section -100.0 To 46.54 %



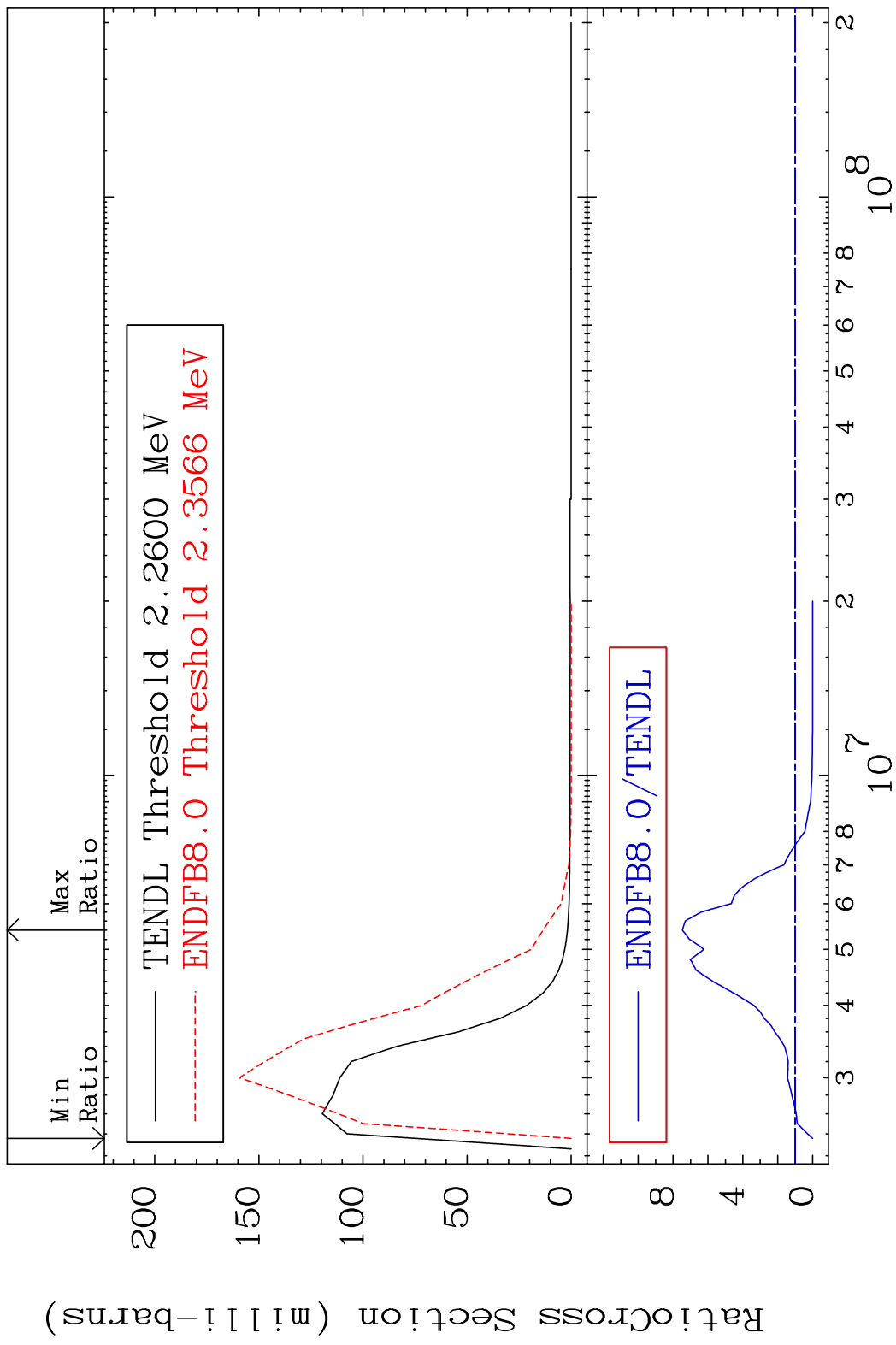
MAT 6025 MT= 54 (n, n') Level 60-Nd-142  
 Cross Section -100.0 To 225.3 %



MAT 6025 MT= 55 (n, n') Level 60-Nd-142  
 Cross Section -16.42 To 9999. %

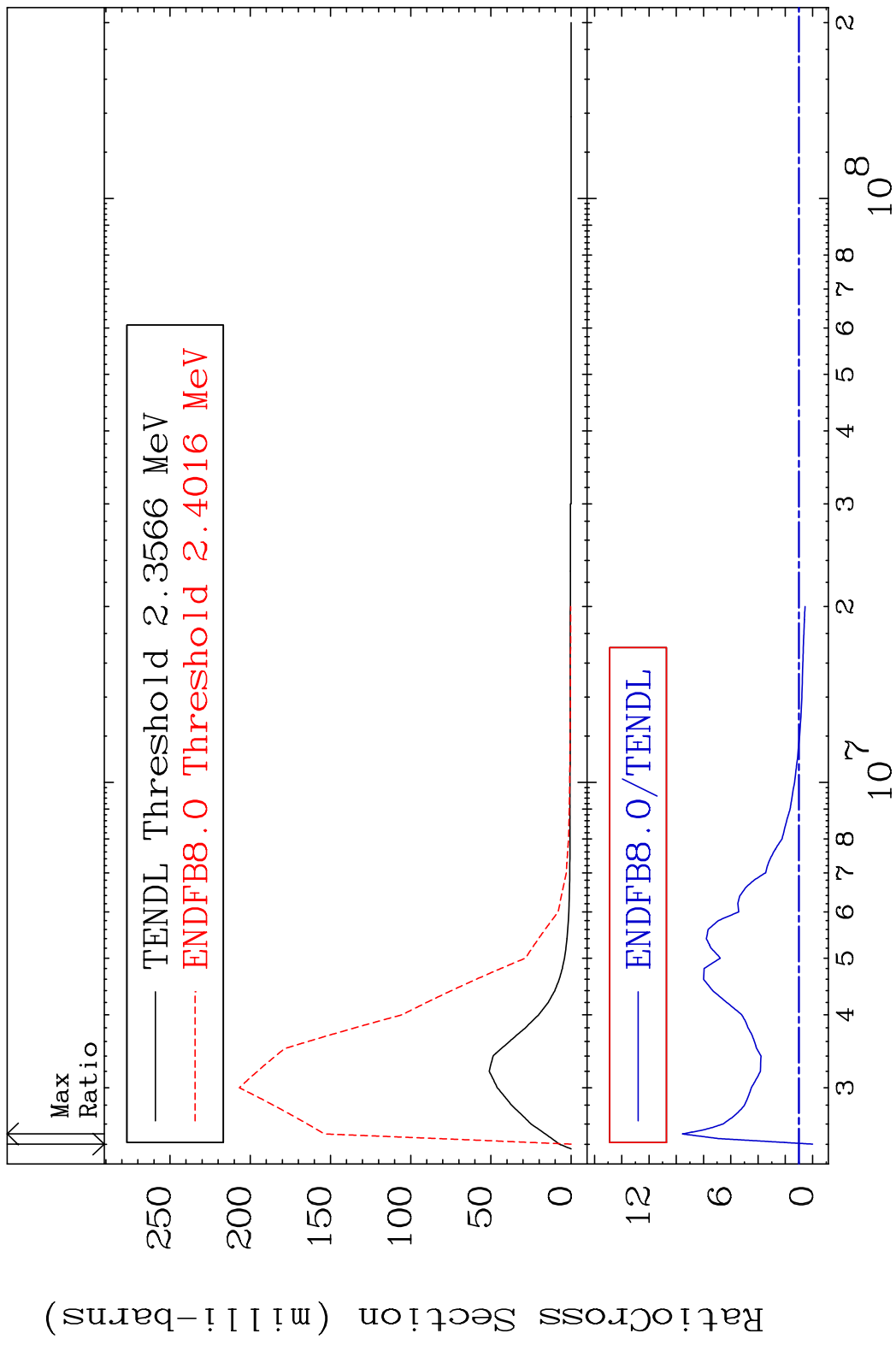


MAT 6025 MT= 56 (n,n') Level 60-Nd-142  
 Cross Section -100.0 To 646.8 %

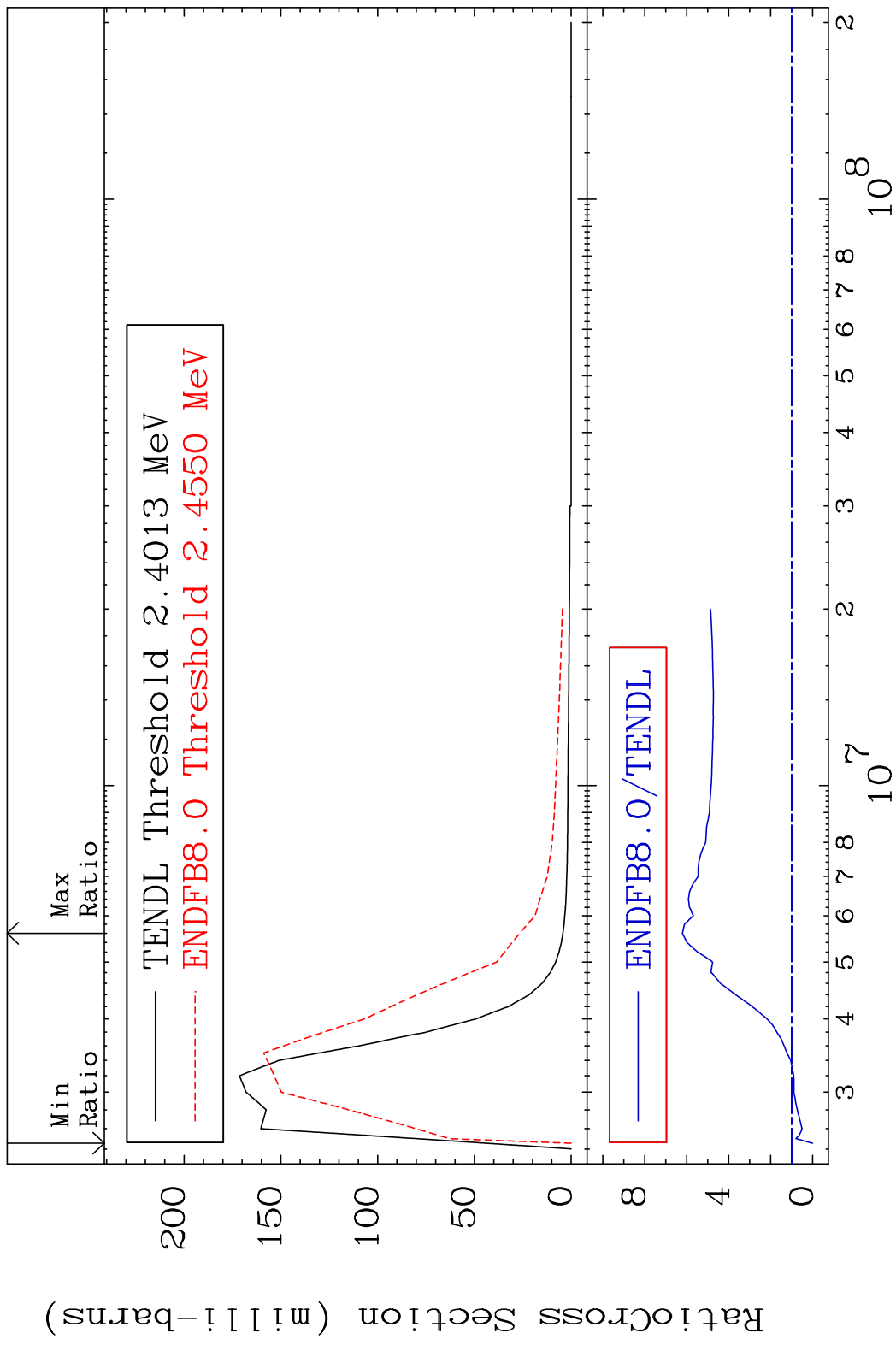




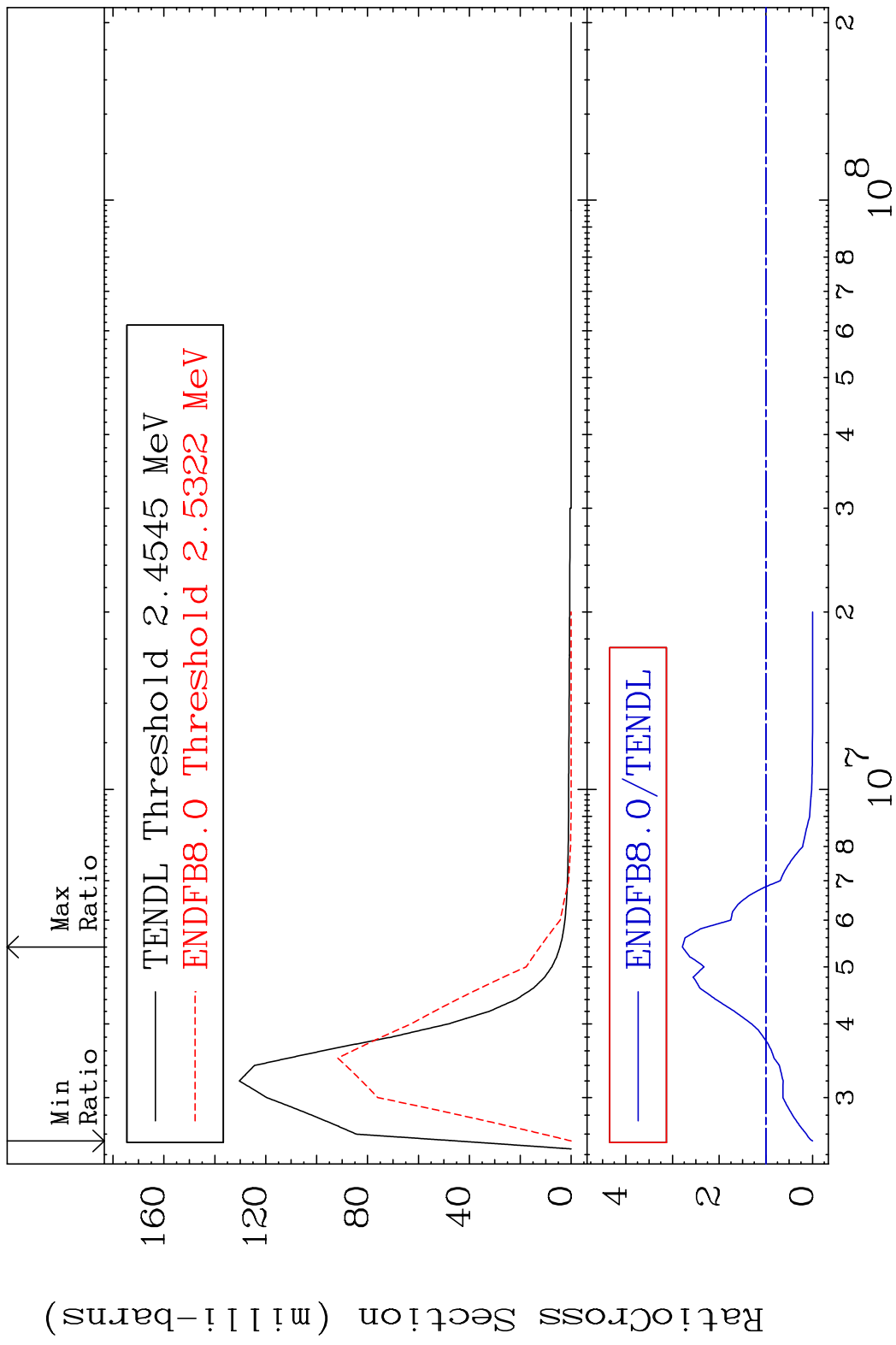
MAT 6025 MT= 57 (n,n') Level 60-Nd-142  
 Cross Section -100.0 To 855.5 %



MAT 6025 MT= 58 (n, n') Level 60-Nd-142  
 Cross Section -100.0 To 520.4 %

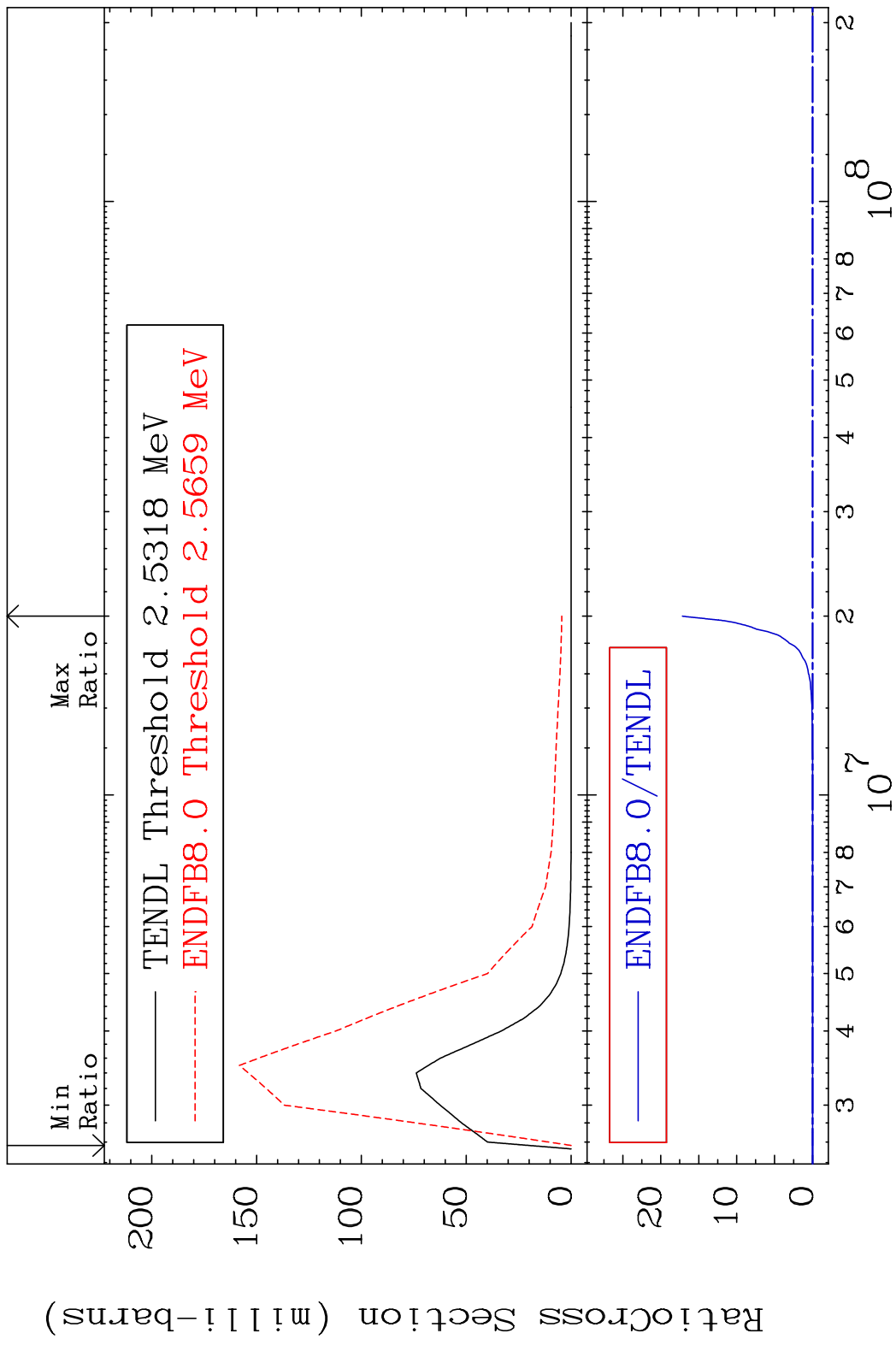


MAT 6025 MT= 59 (n, n') Level 60-Nd-142  
 Cross Section -100.0 To 178.9 %

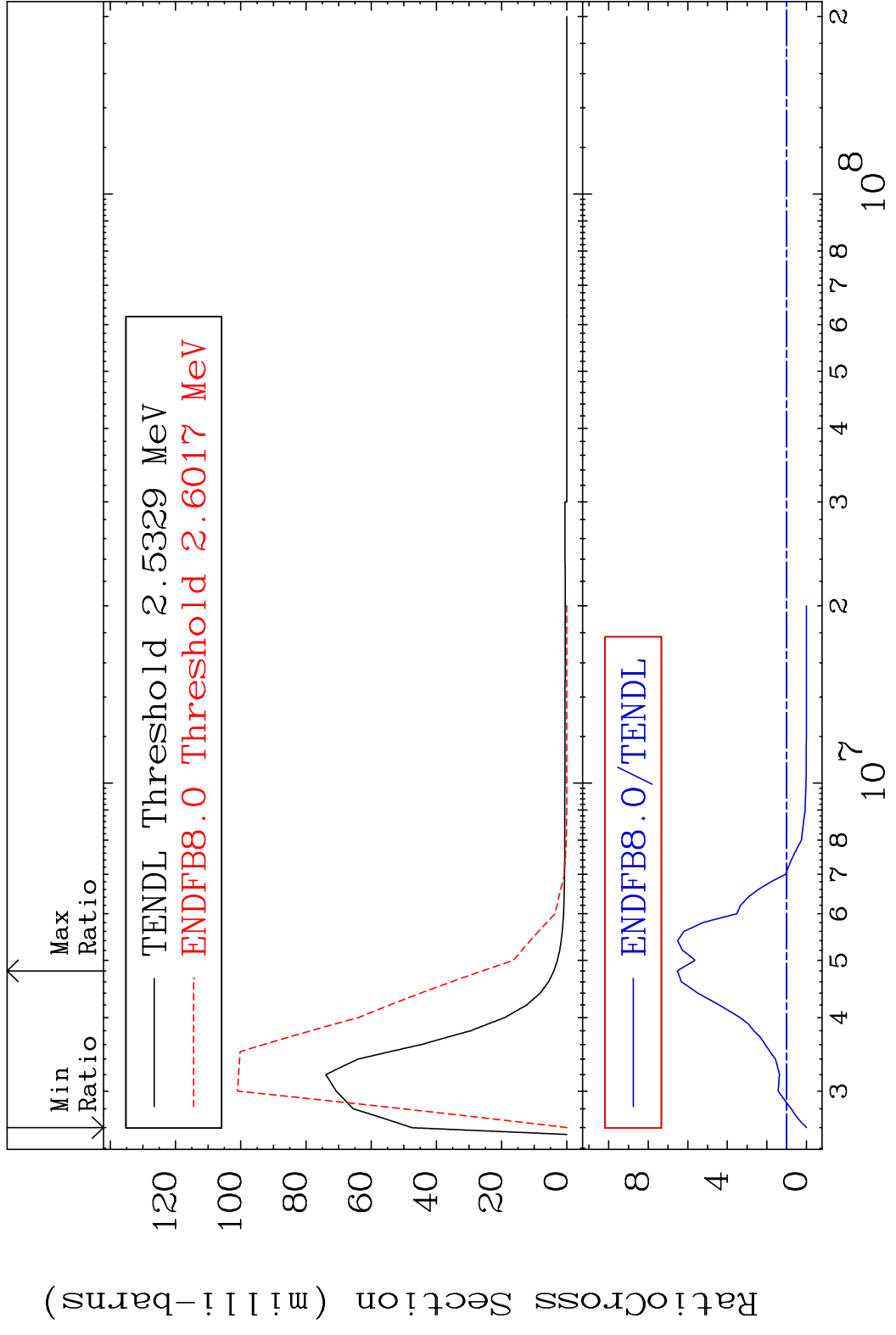


18 60-Nd-142

MAT 6025 MT= 60 (n, n') Level 60-Nd-142  
 Cross Section -100.0 To 9999. %

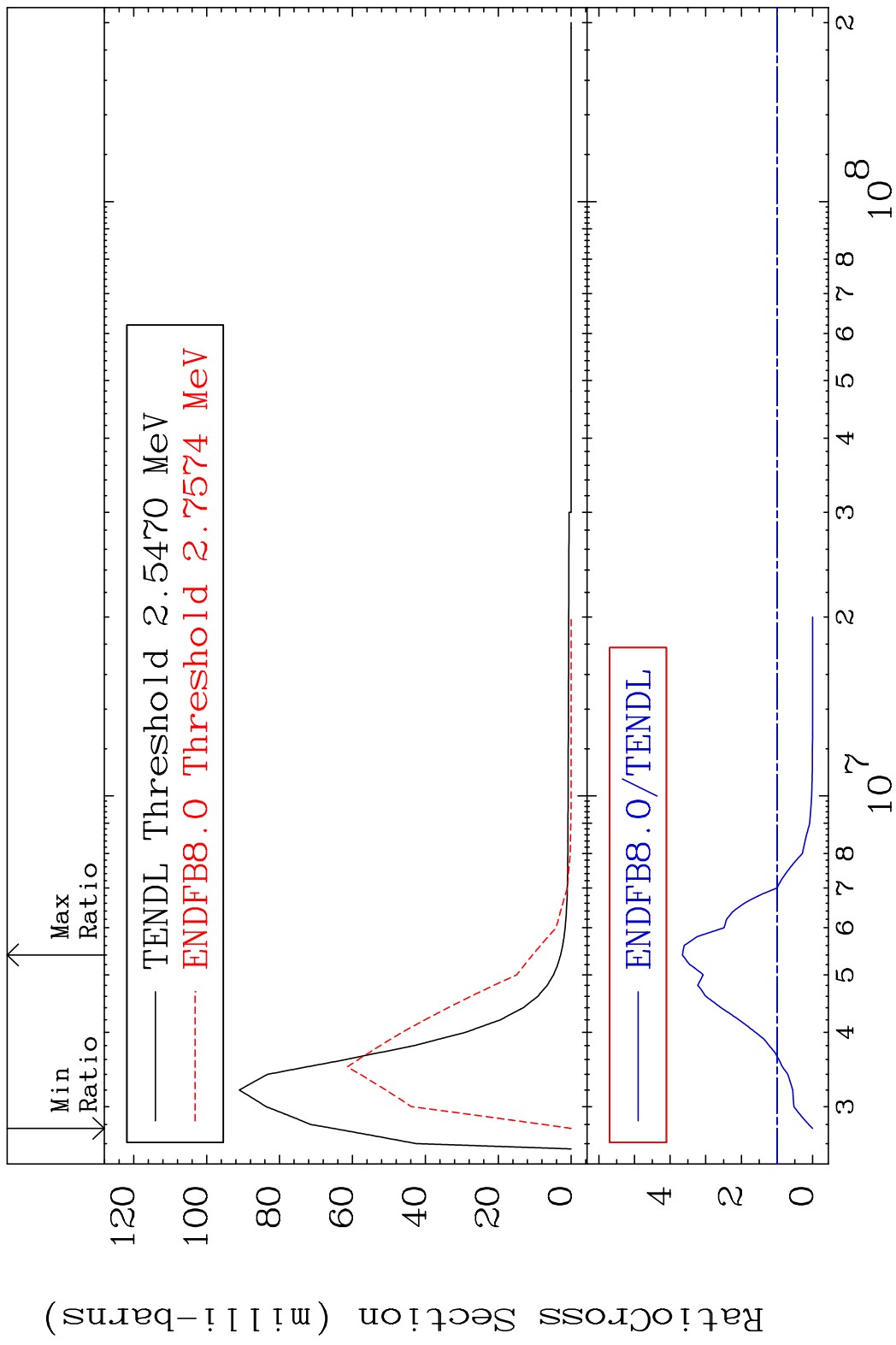


MAT 6025 MT= 61 (n, n') Level 60-Nd-142  
 Cross Section -100.0 To 553.5 %

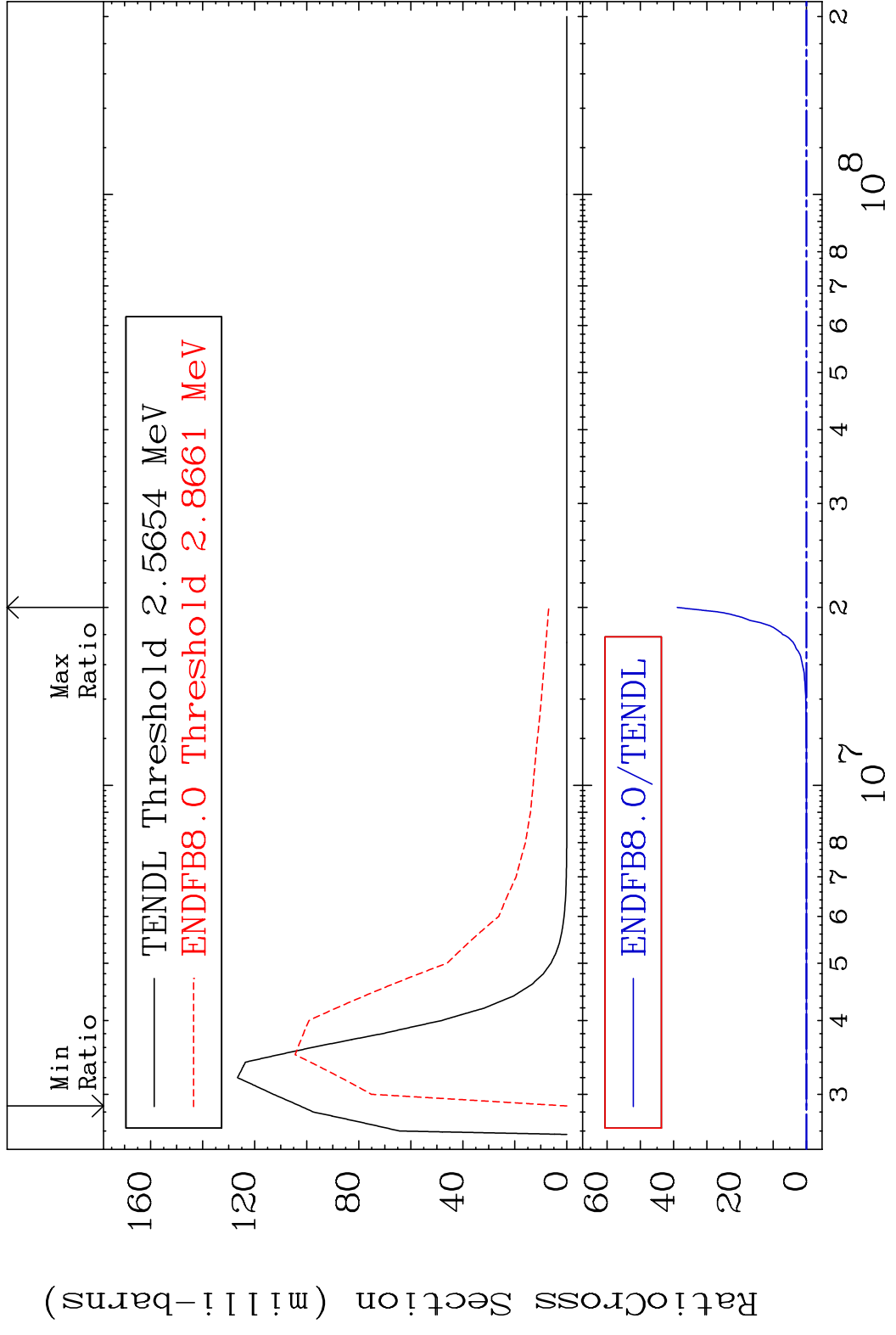


20 Incident Energy (eV) 60-Nd-142

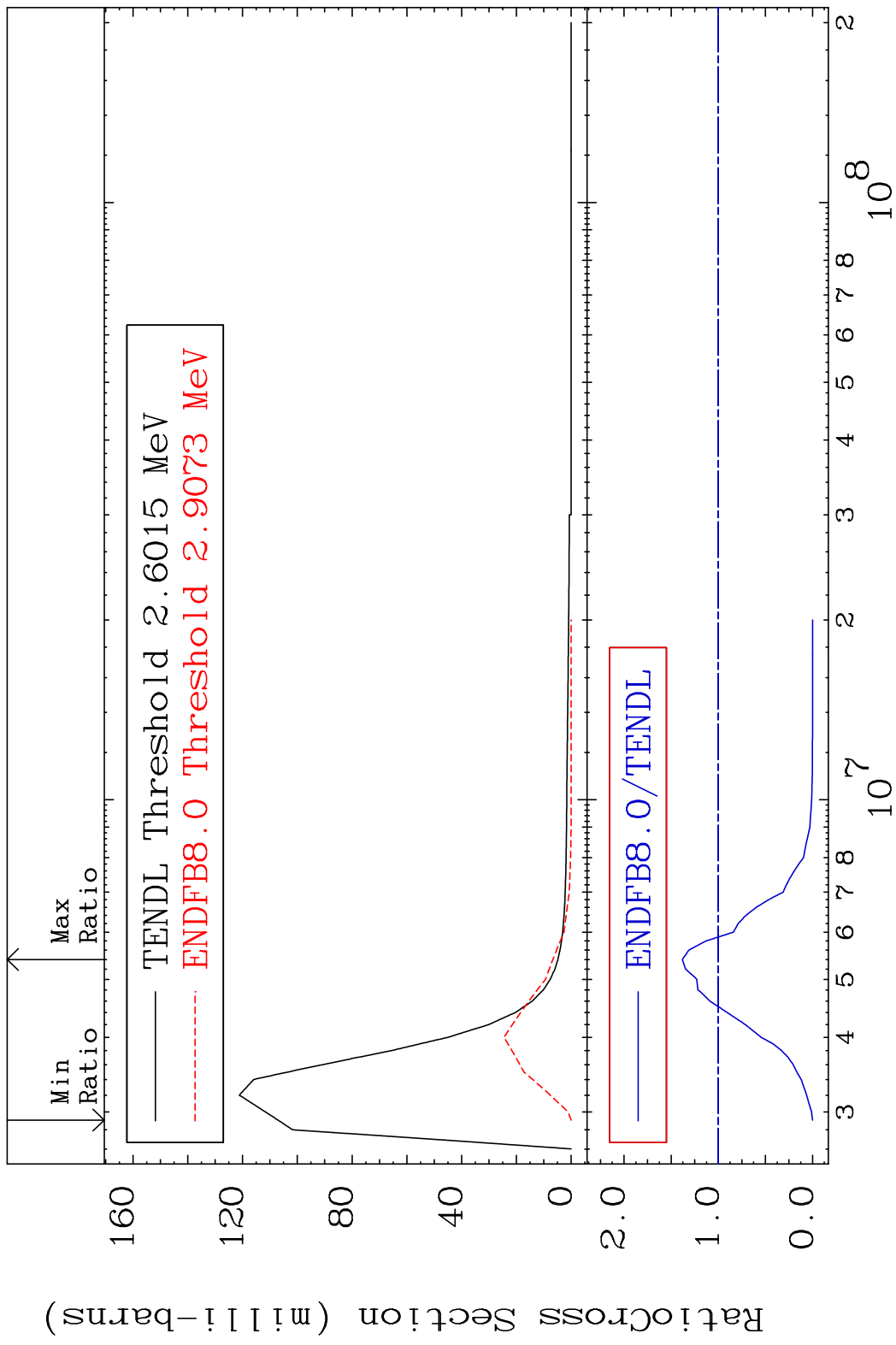
MAT 6025 MT= 62 (n, n') Level 60-Nd-142  
 Cross Section -100.0 To 265.7 %



MAT 6025 MT= 63 (n, n') Level 60-Nd-142  
 Cross Section -100.0 To 9999. %



MAT 6025 MT= 64 (n,n') Level 60-Nd-142  
 Cross Section -100.0 To 38.11 %



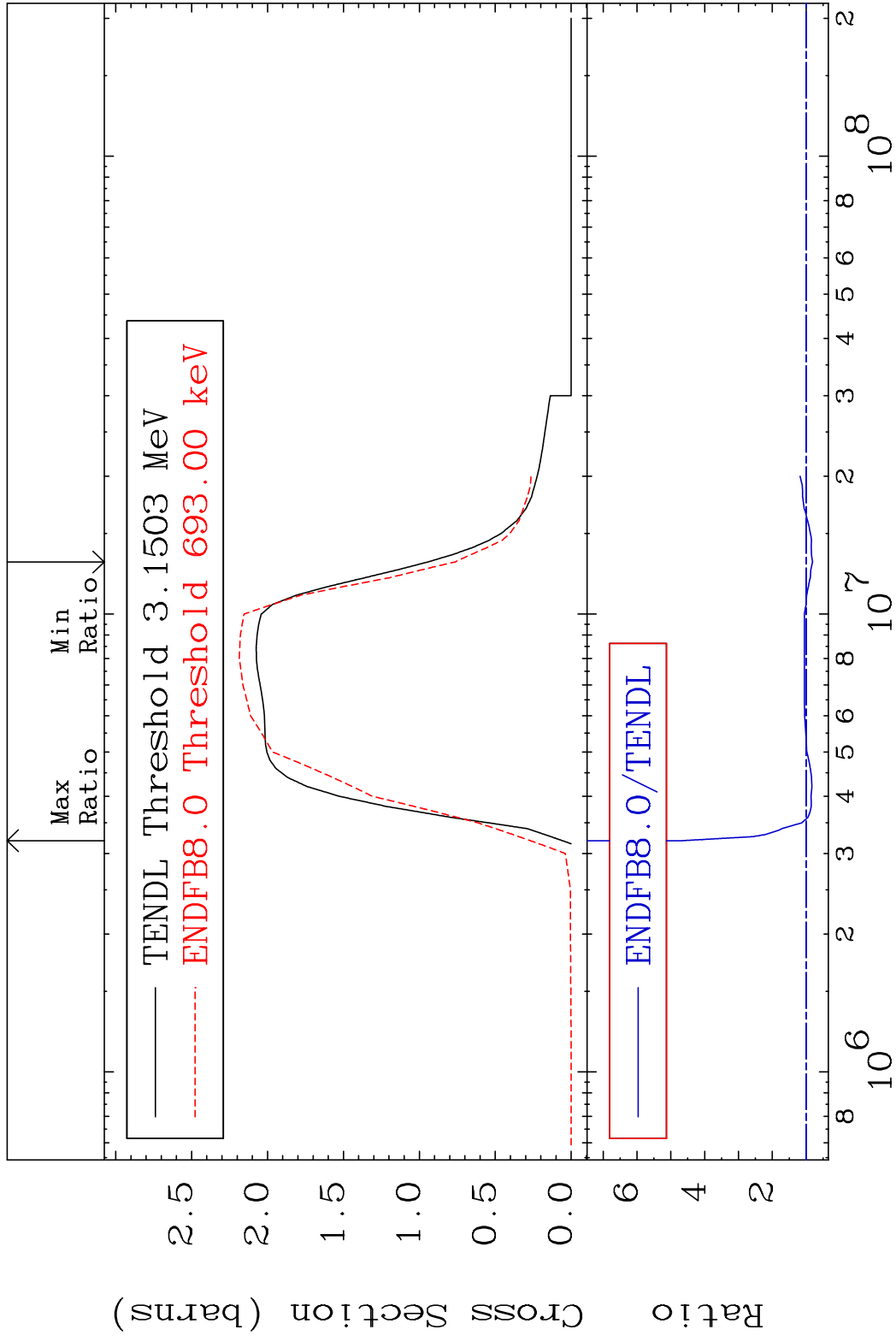


MAT 6025

(n, n') Continuum

60-Nd-142

Cross Section -18.86 To 365.9 %



24

Incident Energy (eV)

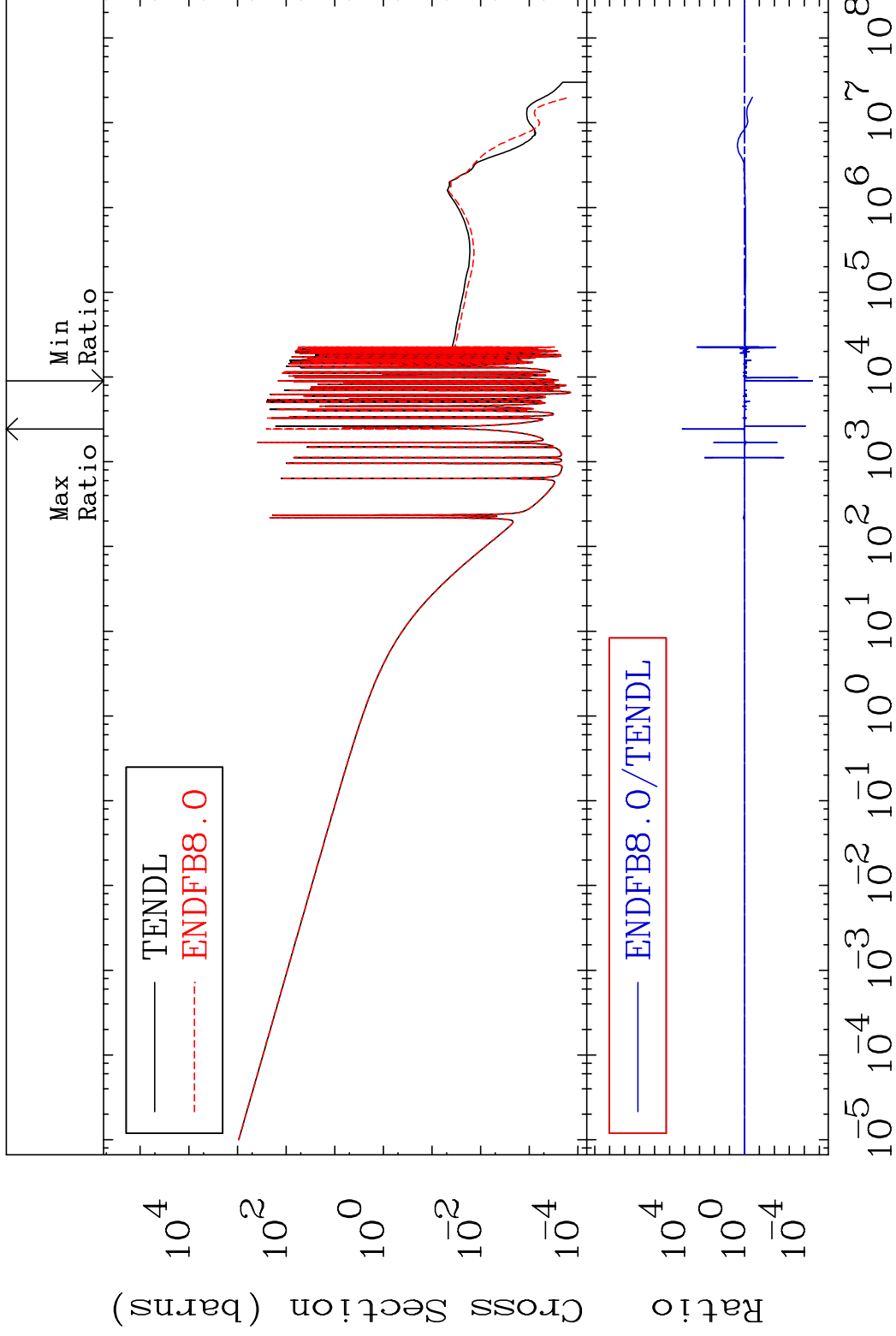
60-Nd-142

MAT 6025

(n,  $\gamma$ )

60-Nd-142

Cross Section -100.0 To 9999. %

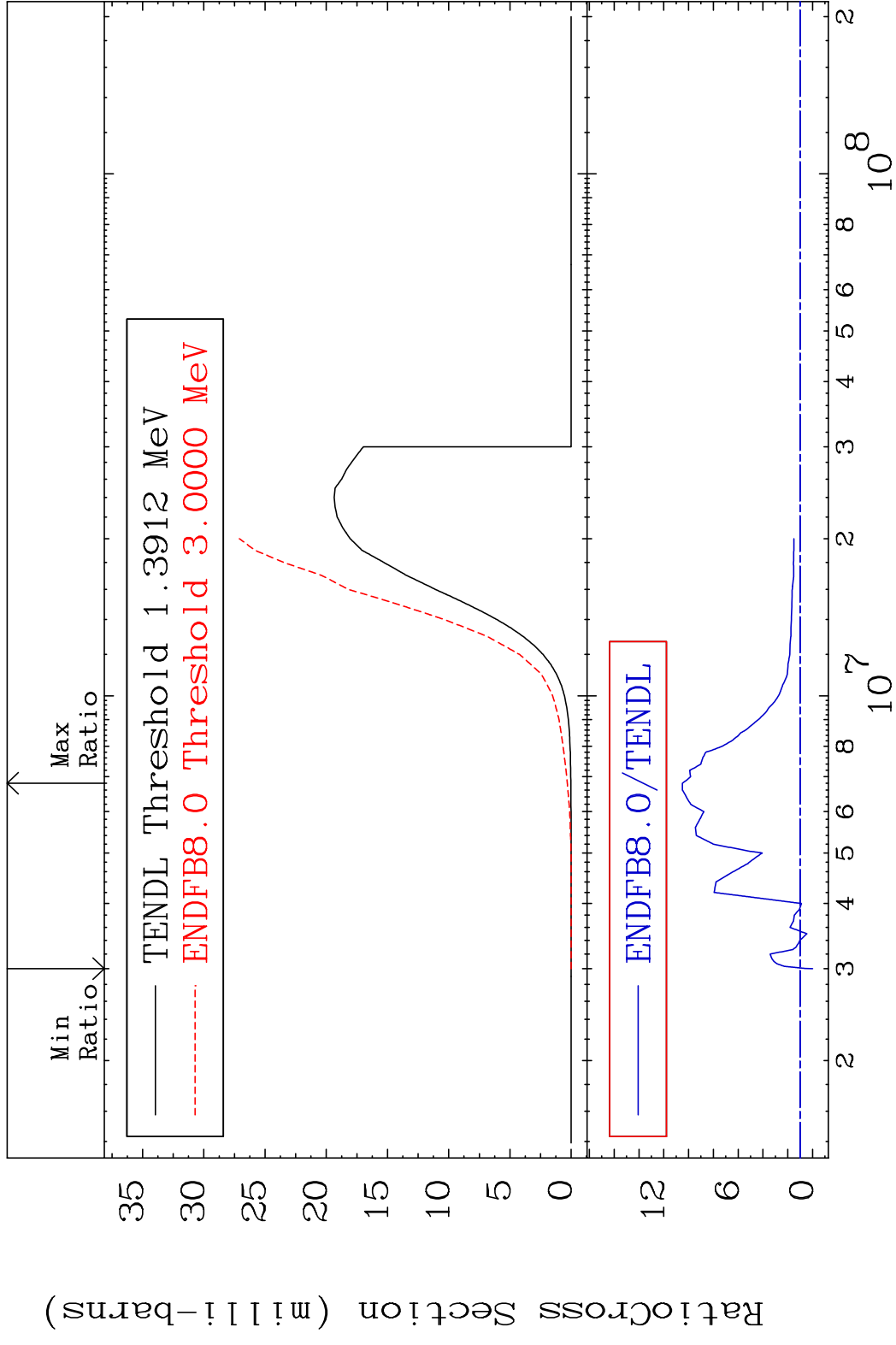


25

Incident Energy (eV)

60-Nd-142

MAT 6025 (n,p) 60-Nd-142  
 Cross Section -100.0 To 950.0 %

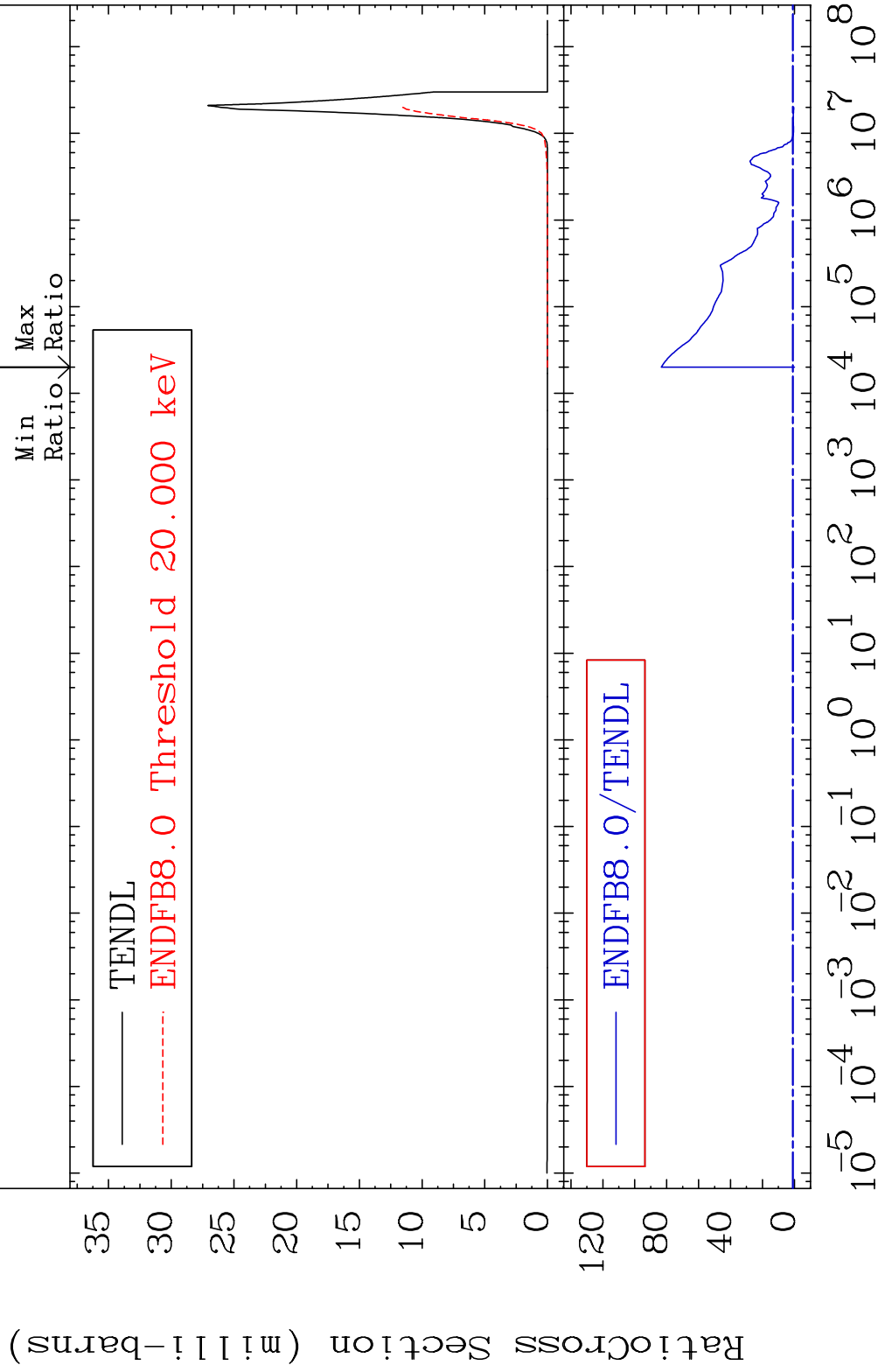


MAT 6025

(n,  $\alpha$ )

60-Nd-142

Cross Section -100.0 To 8242. %

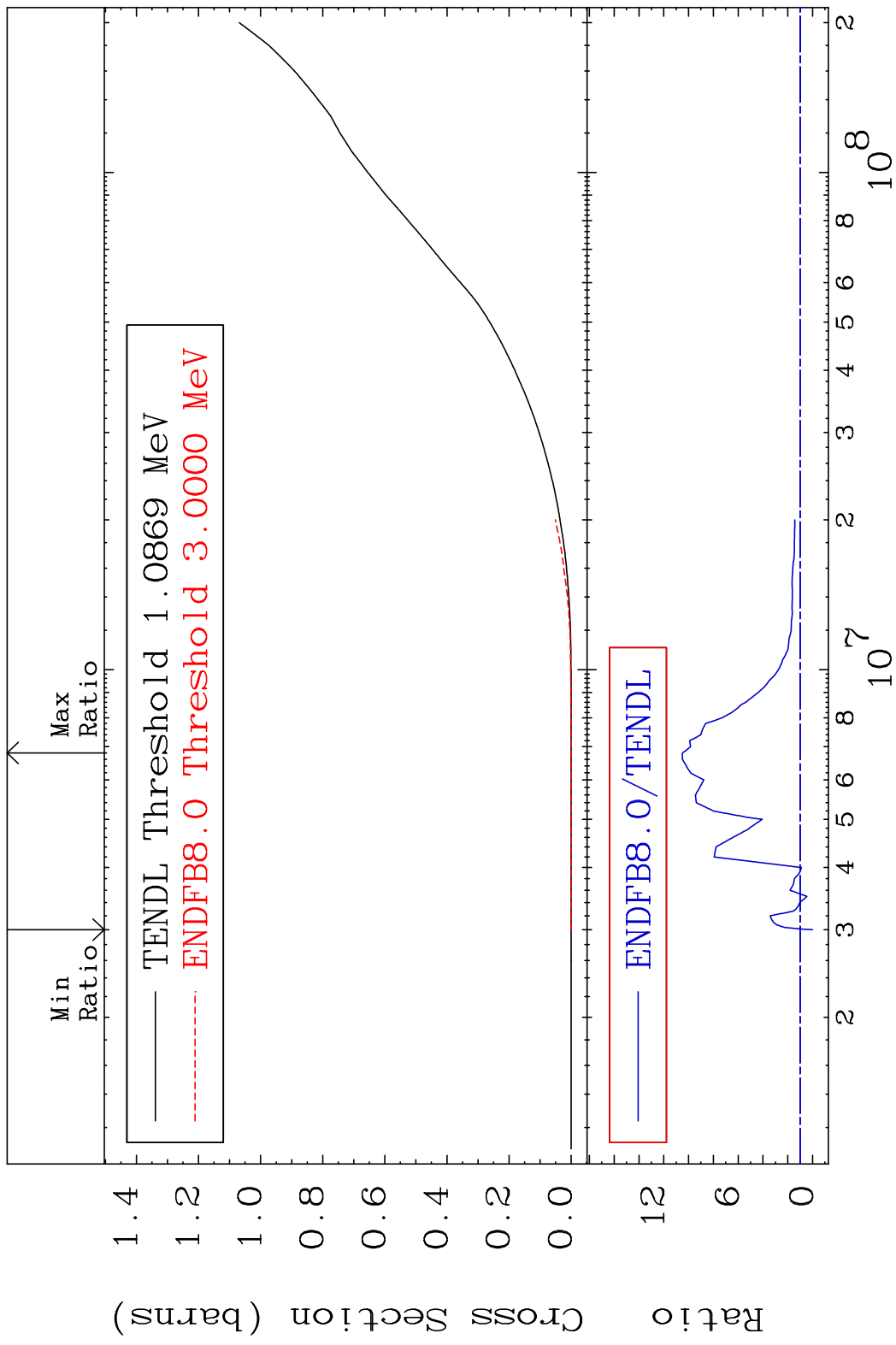


27

Incident Energy (eV)

60-Nd-142

MAT 6025 Hydrogen Production 60-Nd-142  
 Cross Section -100.0 To 950.0 %

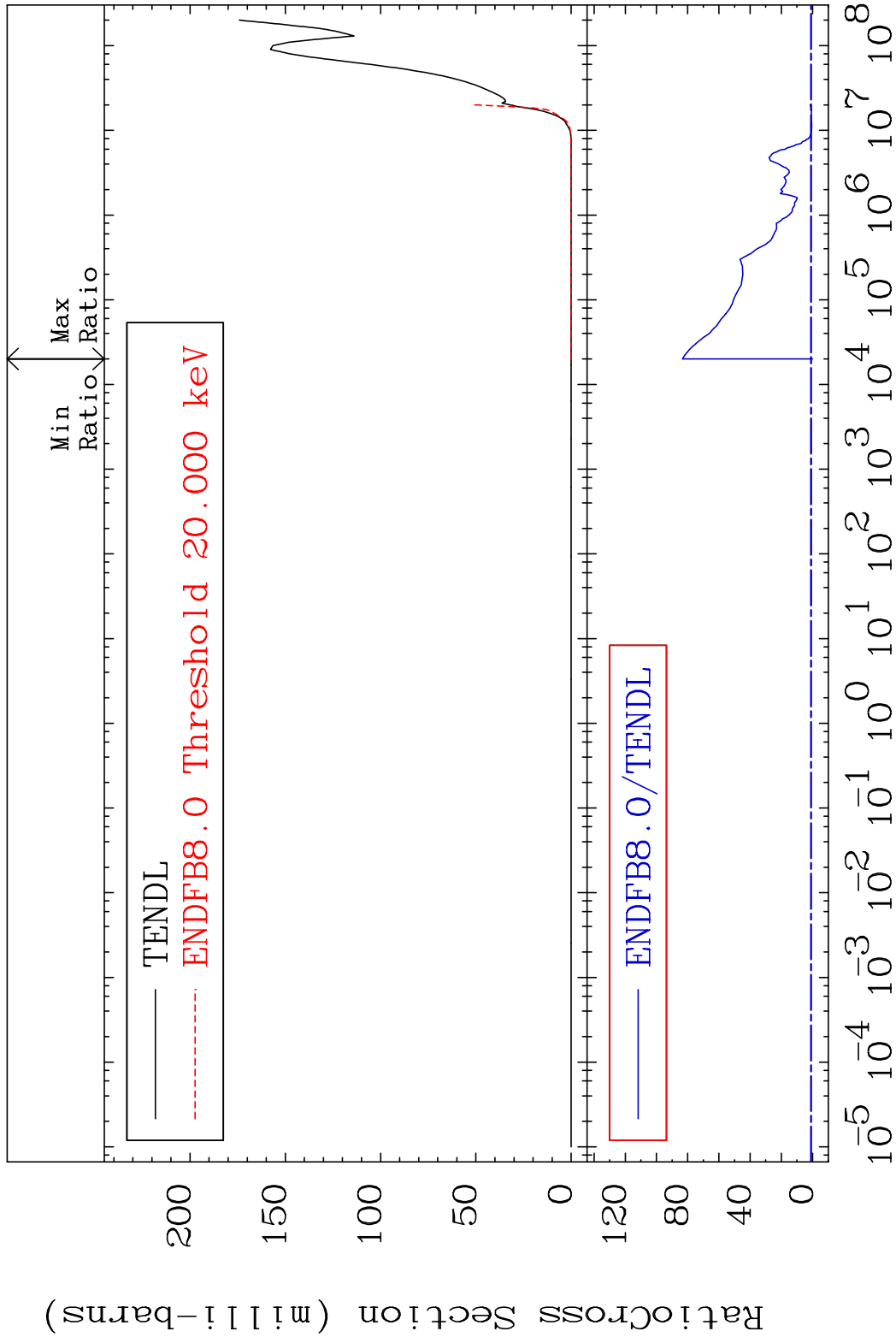


MAT 6025

He-4 Production

60-Nd-142

Cross Section -100.0 To 8242. %

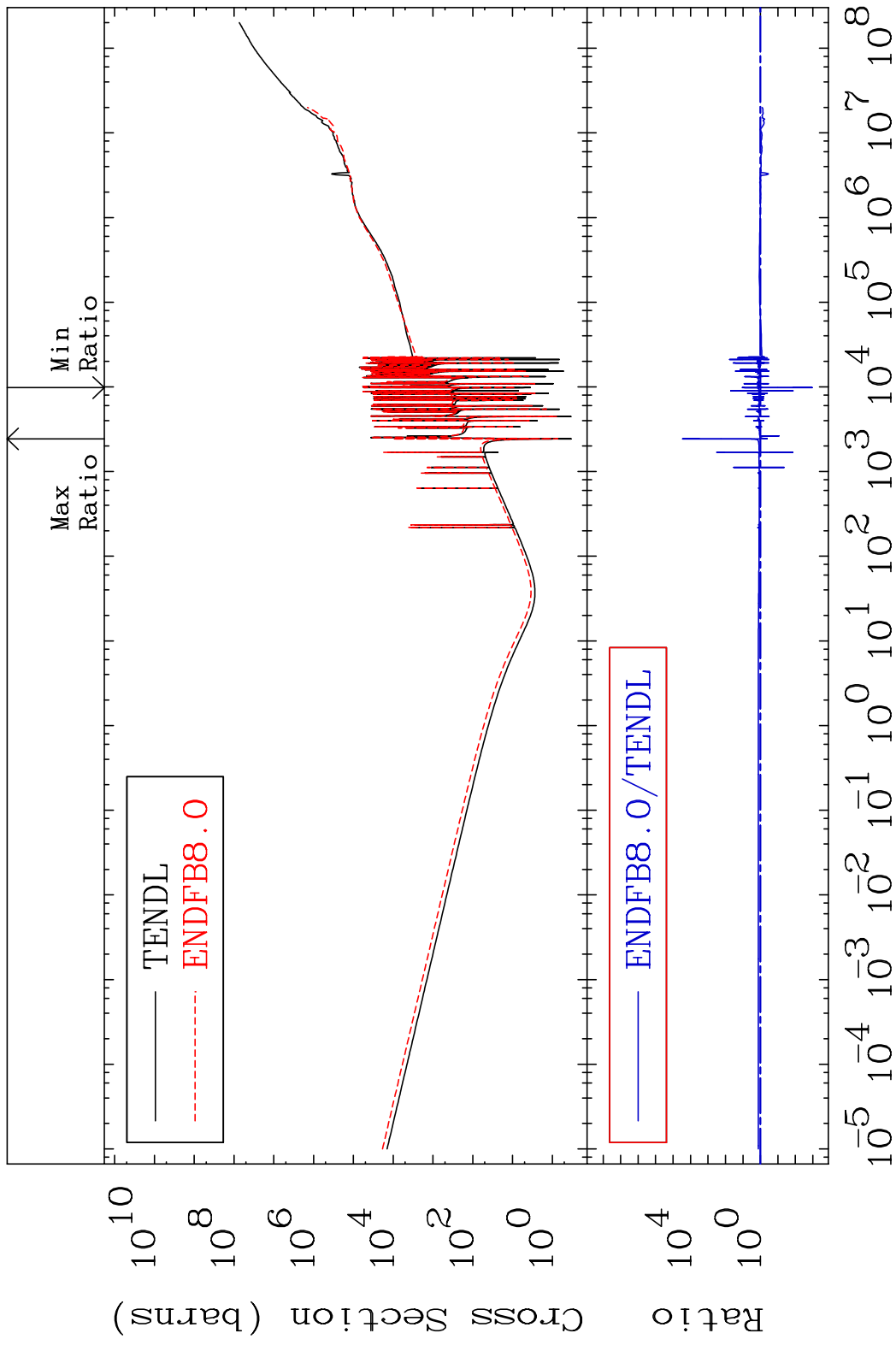


29

Incident Energy (eV)

60-Nd-142

MAT 6025 Kerma total (eV-barns) 60-Nd-142  
 Cross Section -99.90 To 9999. %

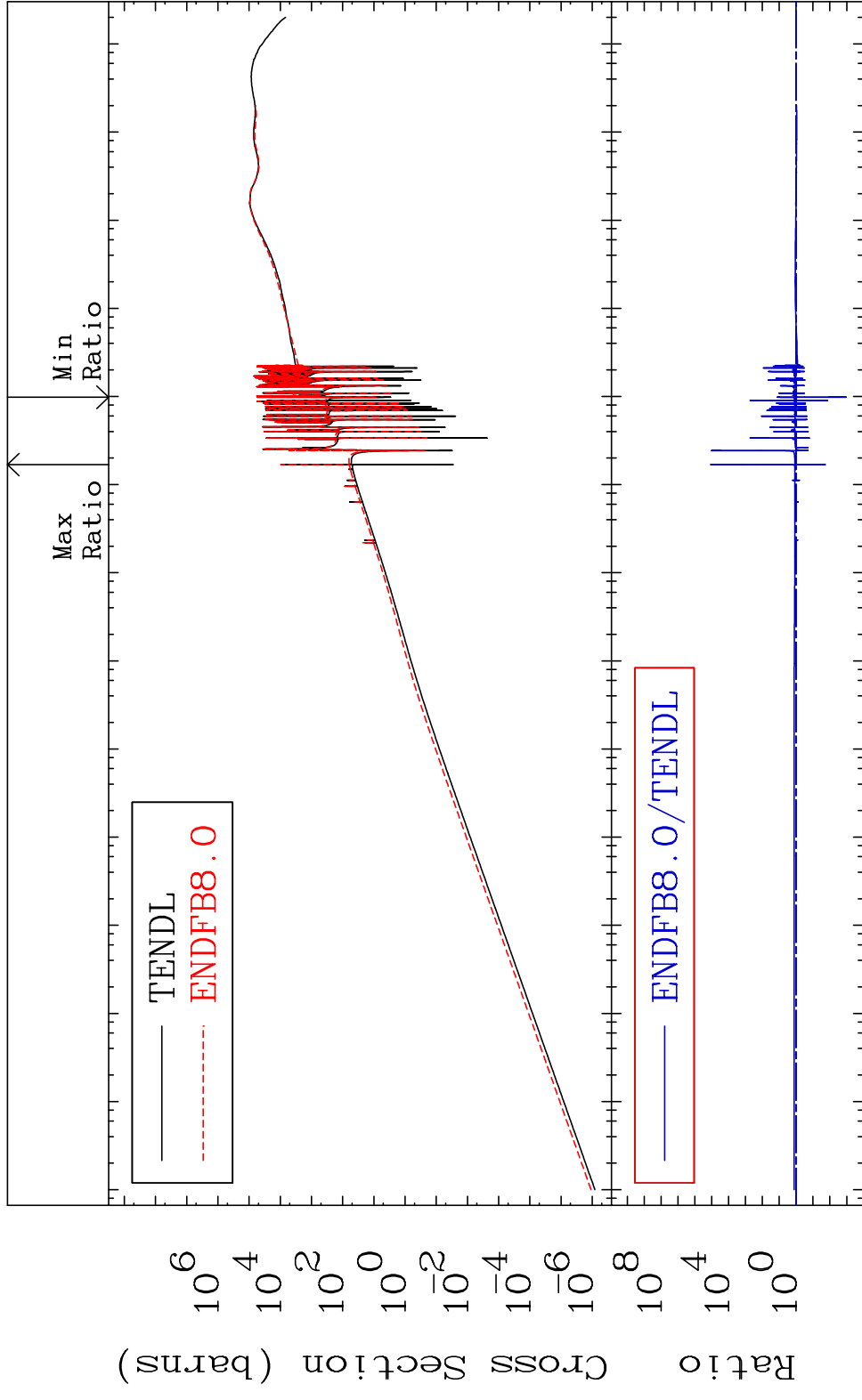


30 Incident Energy (eV) 60-Nd-142

MAT 6025

Kerma elastic  
Cross Section

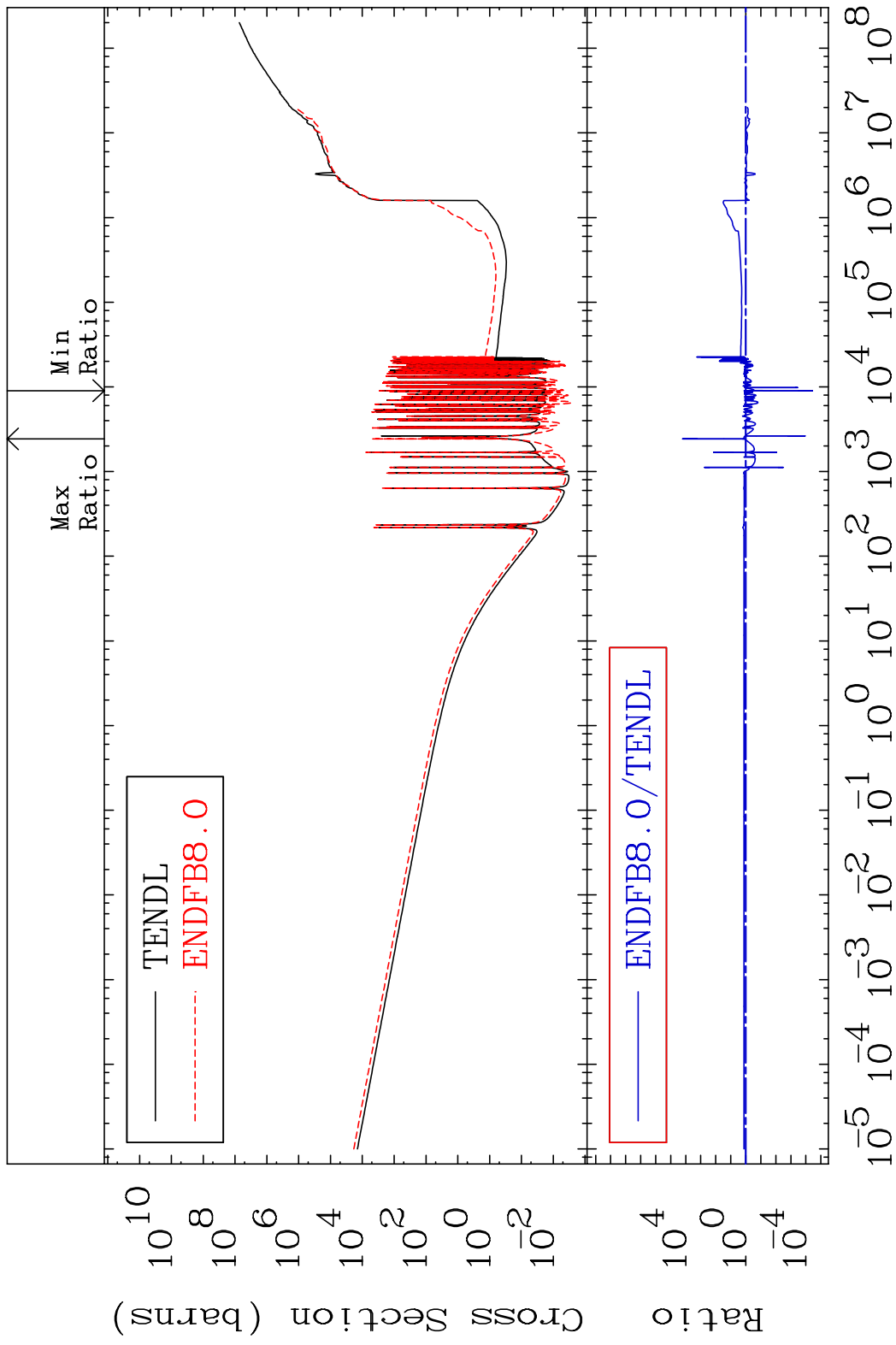
60-Nd-142  
-99.89 To 9999. %



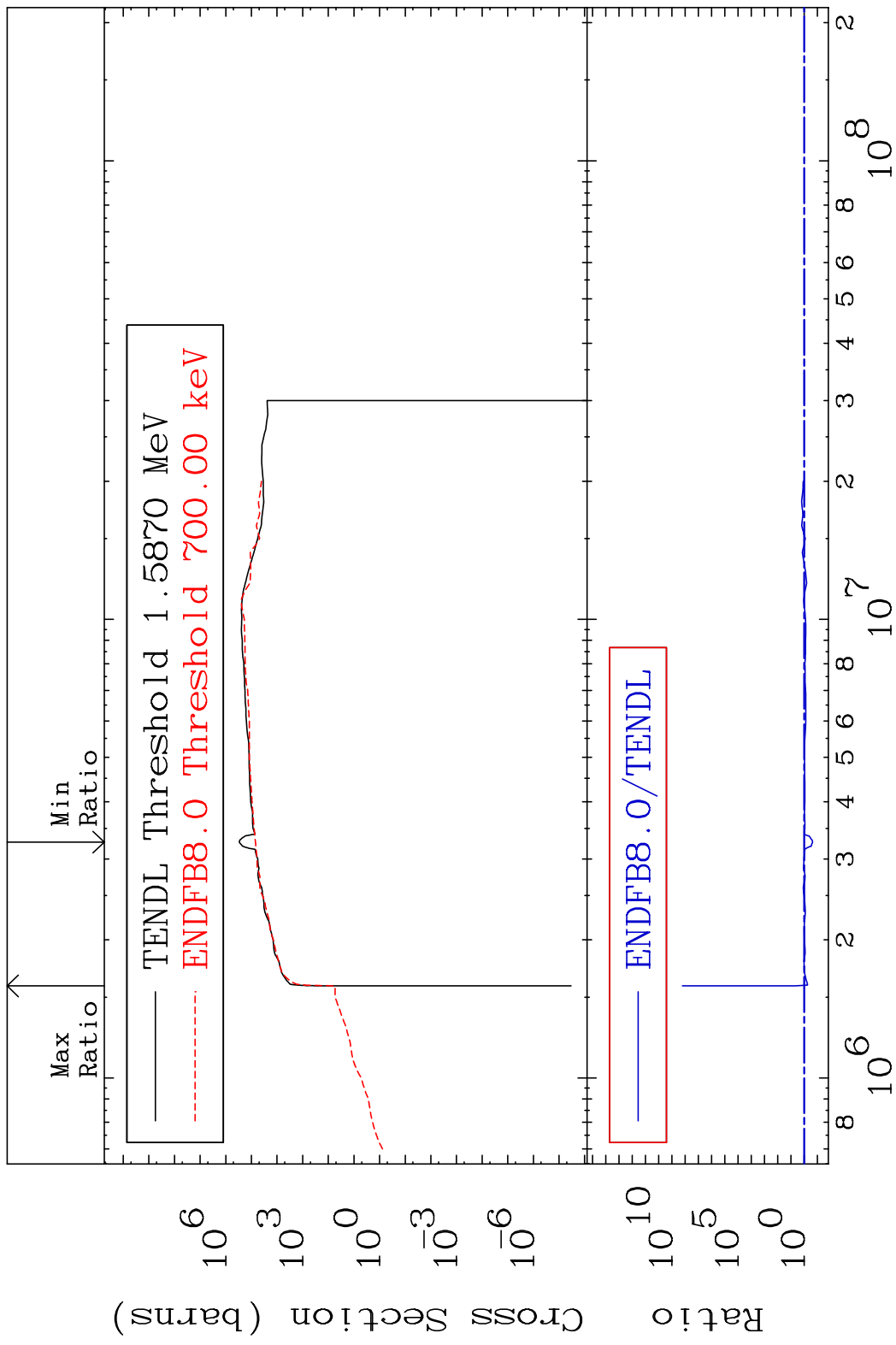
10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>



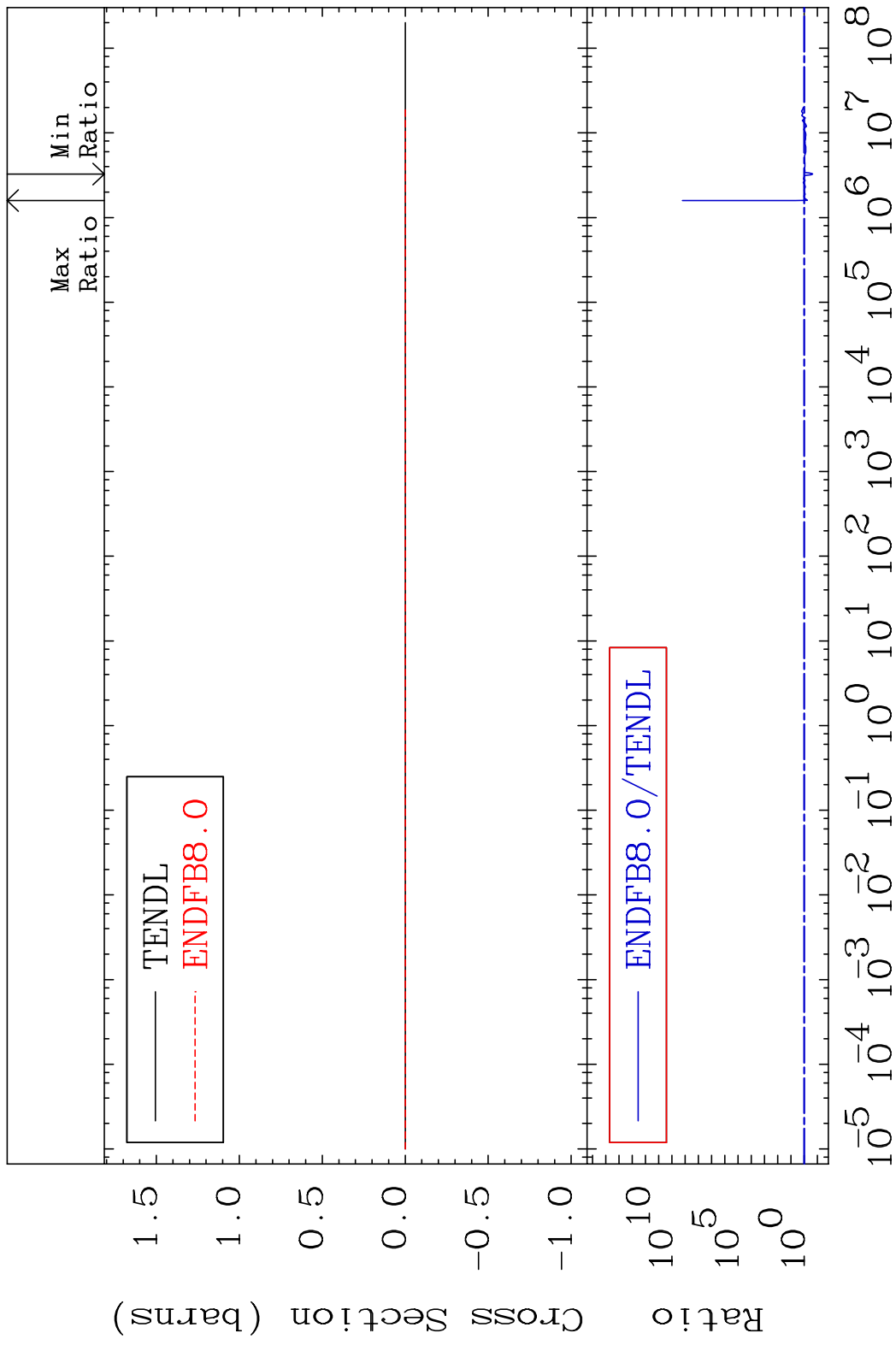
MAT 6025 Kerma non-elastic (all but mt2) 60-Nd-142  
 Cross Section -100.0 To 9999. %



MAT 6025 Kerma inelastic (mt51-91) 60-Nd-142  
 Cross Section -76.48 To 9999. %

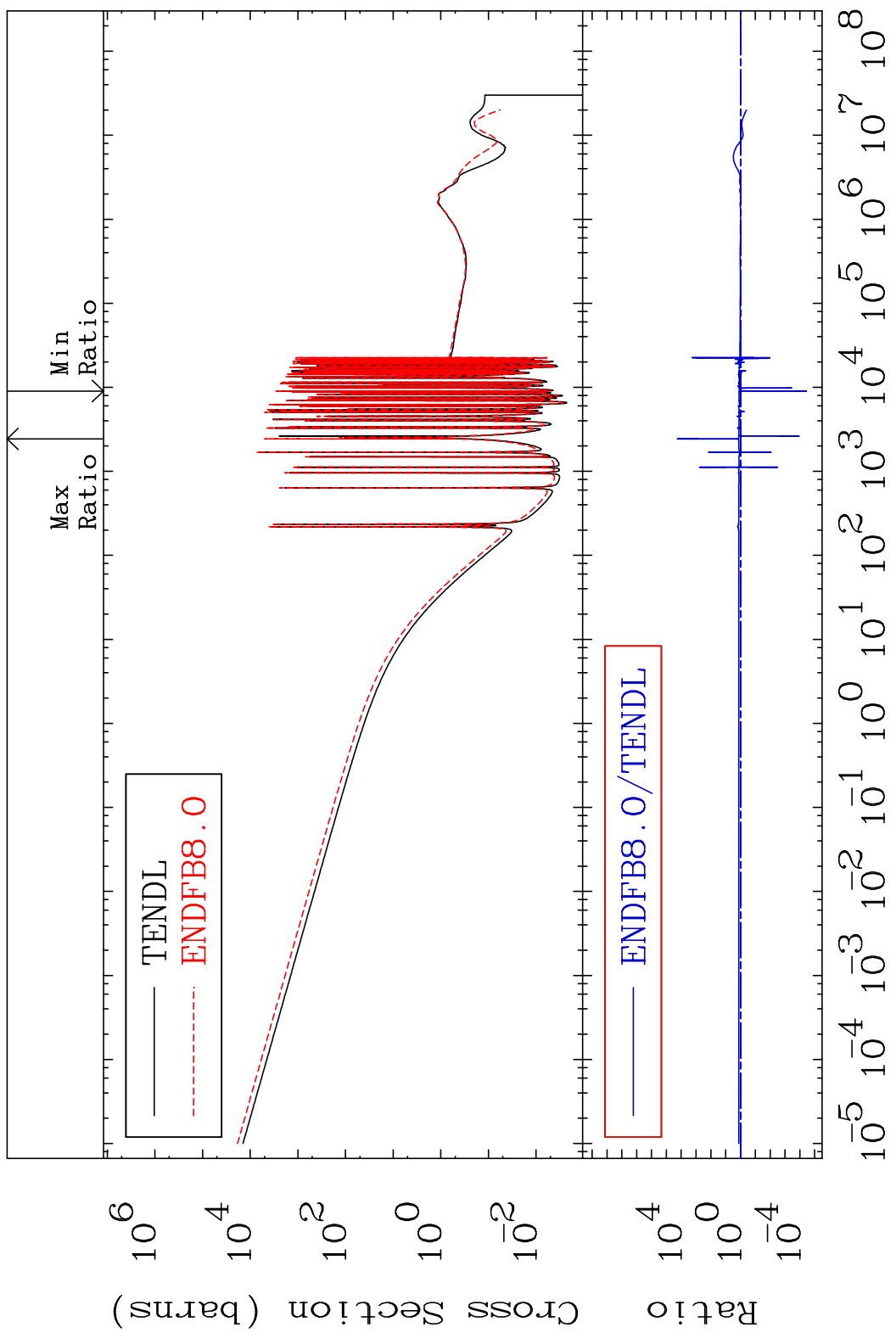


MAT 6025 Kerma fission (mt18 or mt19-20-21-38) 60-Nd-142  
 Cross Section -76.48 To 9999. %



MAT 6025

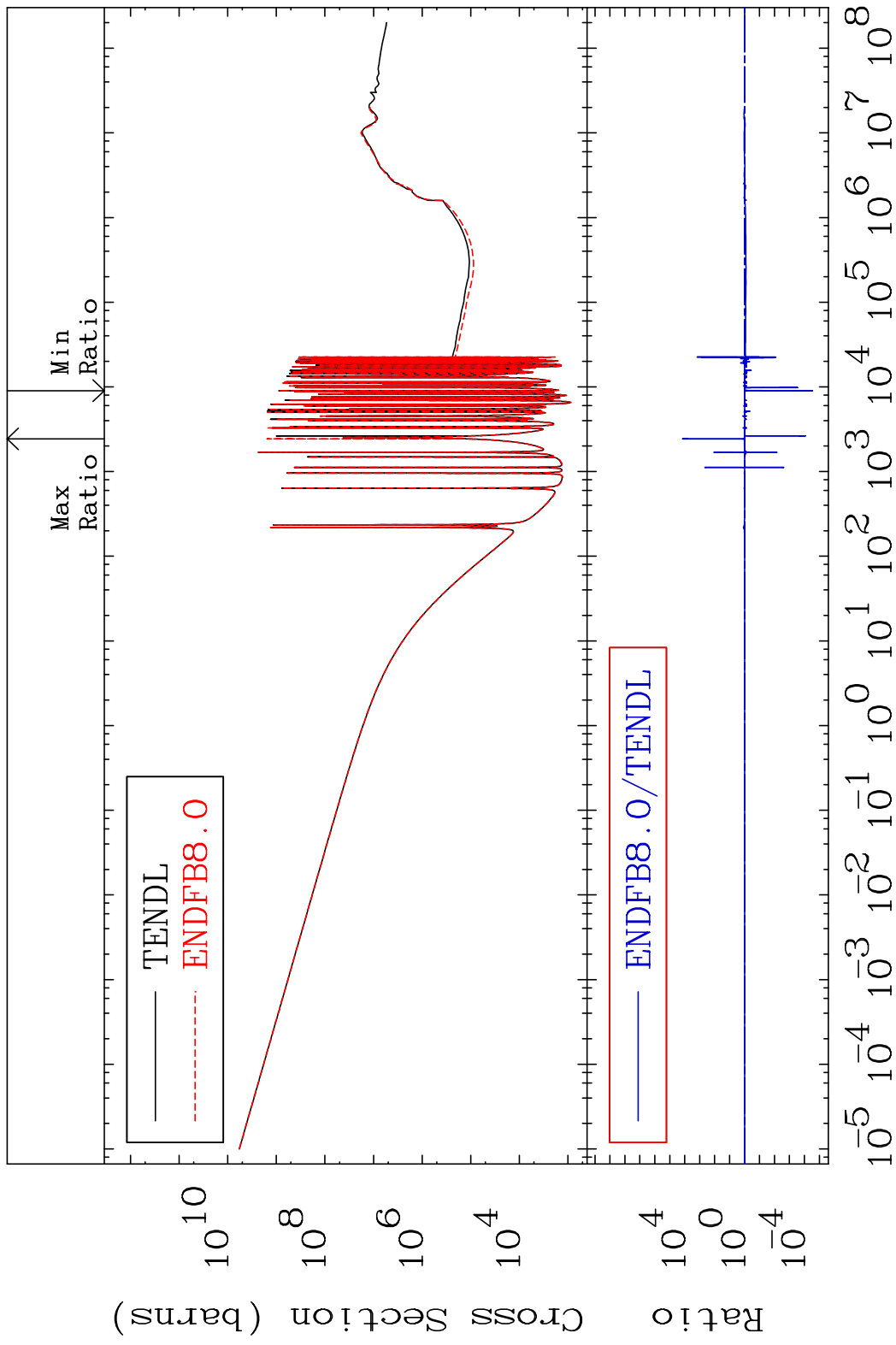
Kerma capture (mt102) 60-Nd-142  
Cross Section -100.0 To 9999. %



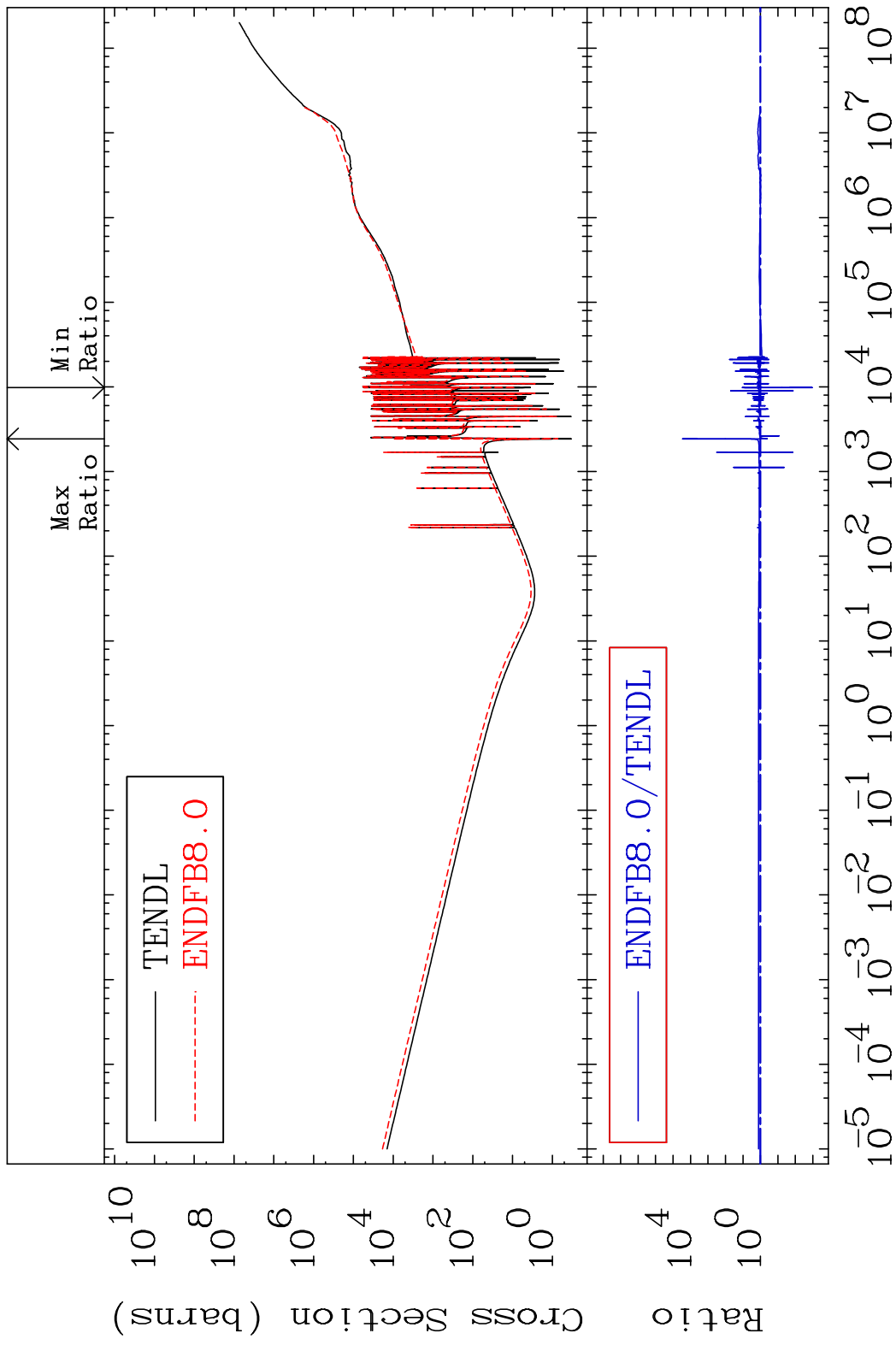
35

Incident Energy (eV) 60-Nd-142

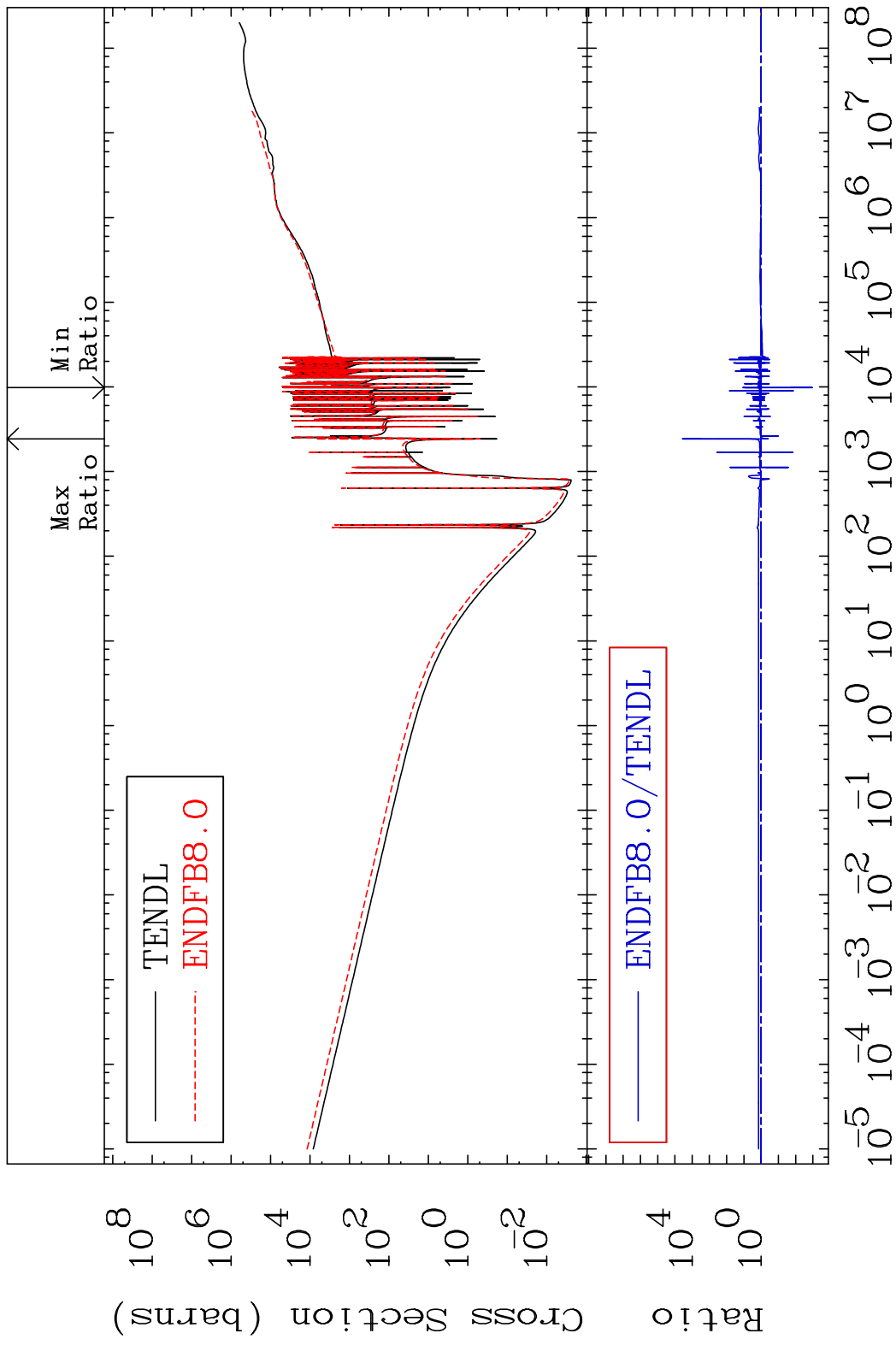
MAT 6025 Total photon (eV-barns) 60-Nd-142  
 Cross Section -100.0 To 9999. %



MAT 6025 Total kinematic kerma (high limit) 60-Nd-142  
 Cross Section -99.90 To 9999. %



MAT 6025      Dpa total (eV-barns)      60-Nd-142  
 Cross Section      -99.90 To 9999. %

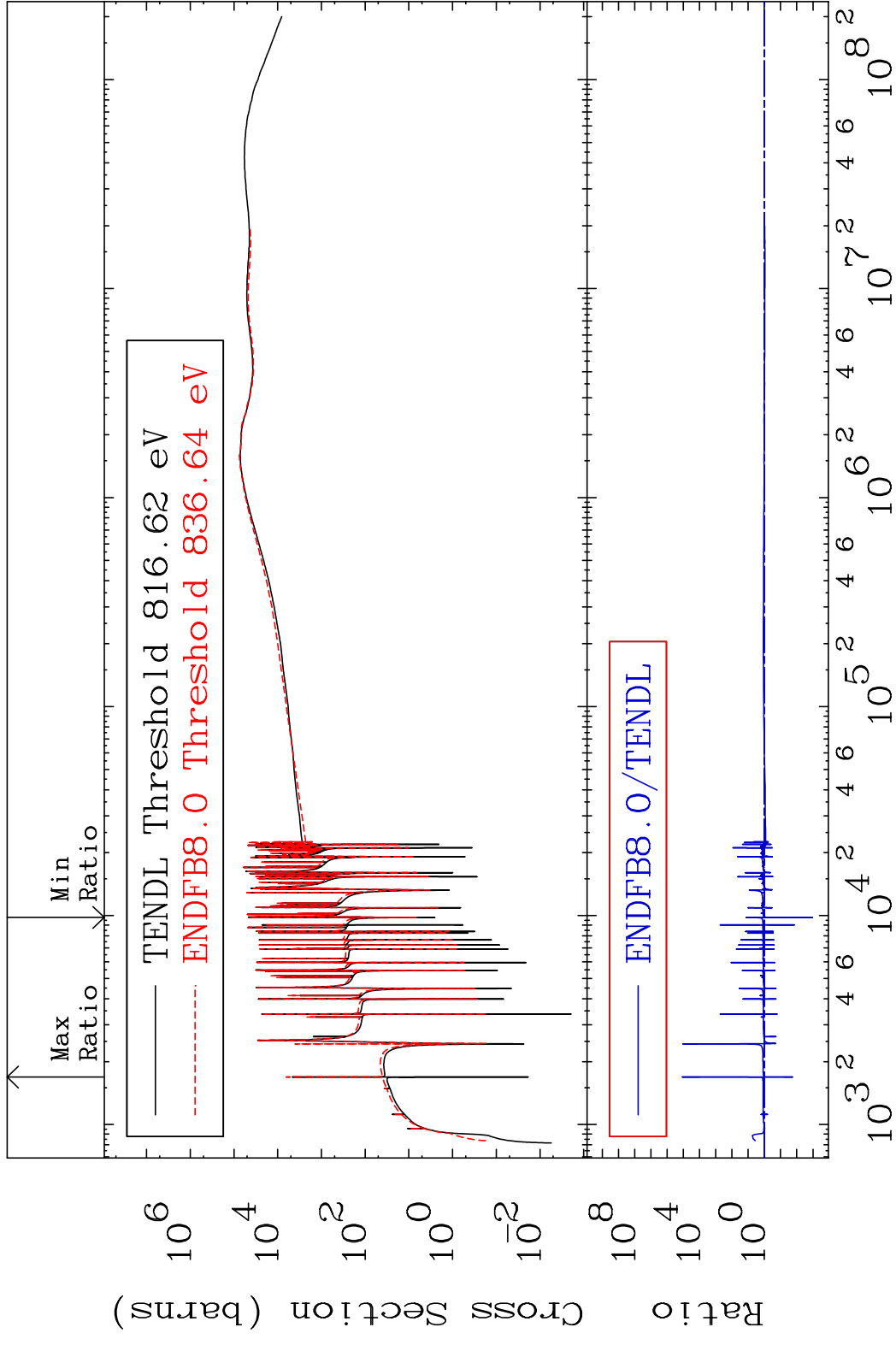


MAT 6025

Dpa elastic (mt2)

60-Nd-142

Cross Section -99.89 To 9999. %



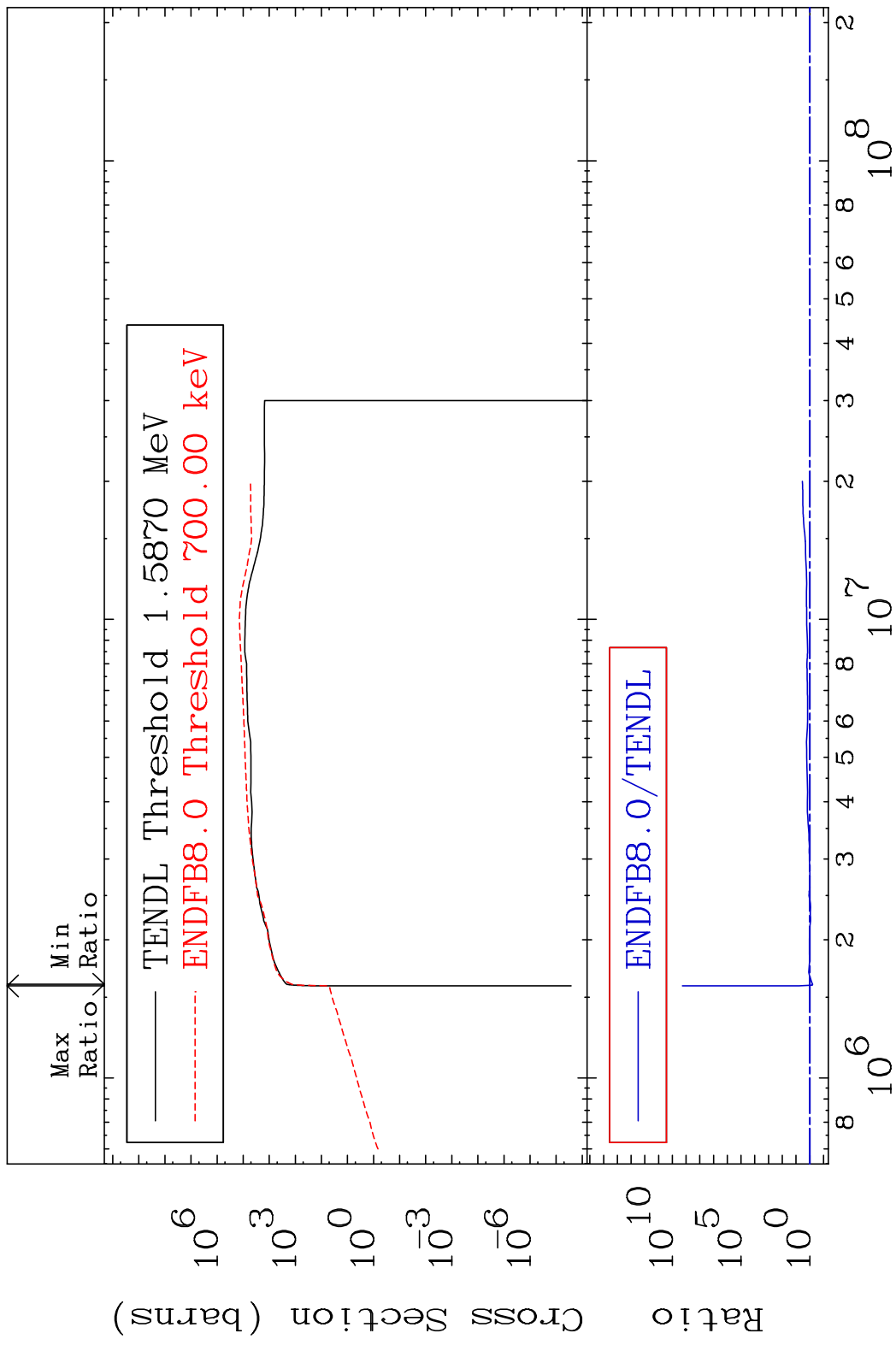
39

Incident Energy (eV)

60-Nd-142



MAT 6025 Dpa inelastic (mt51-91) 60-Nd-142  
 Cross Section -37.44 To 9999. %



40 Incident Energy (eV) 60-Nd-142

MAT 6025 Dpa disappearance (mt102 -120) 60-Nd-142  
 Cross Section -100.0 To 9999. %

