

Program Complot  
(Version 2021-1)

by

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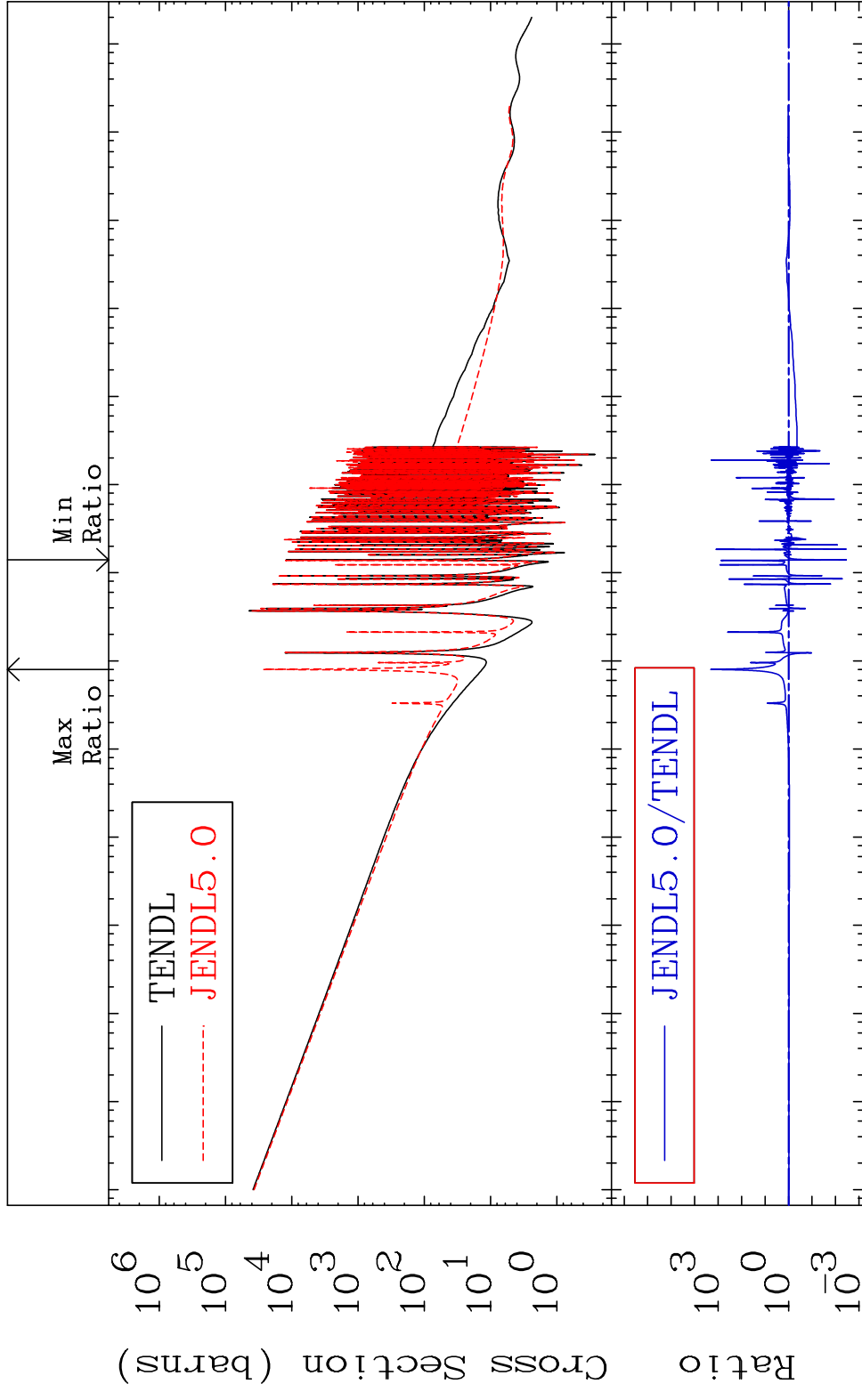
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6425

Total Cross Section -99.65 To 9999. %

64-Gd-152



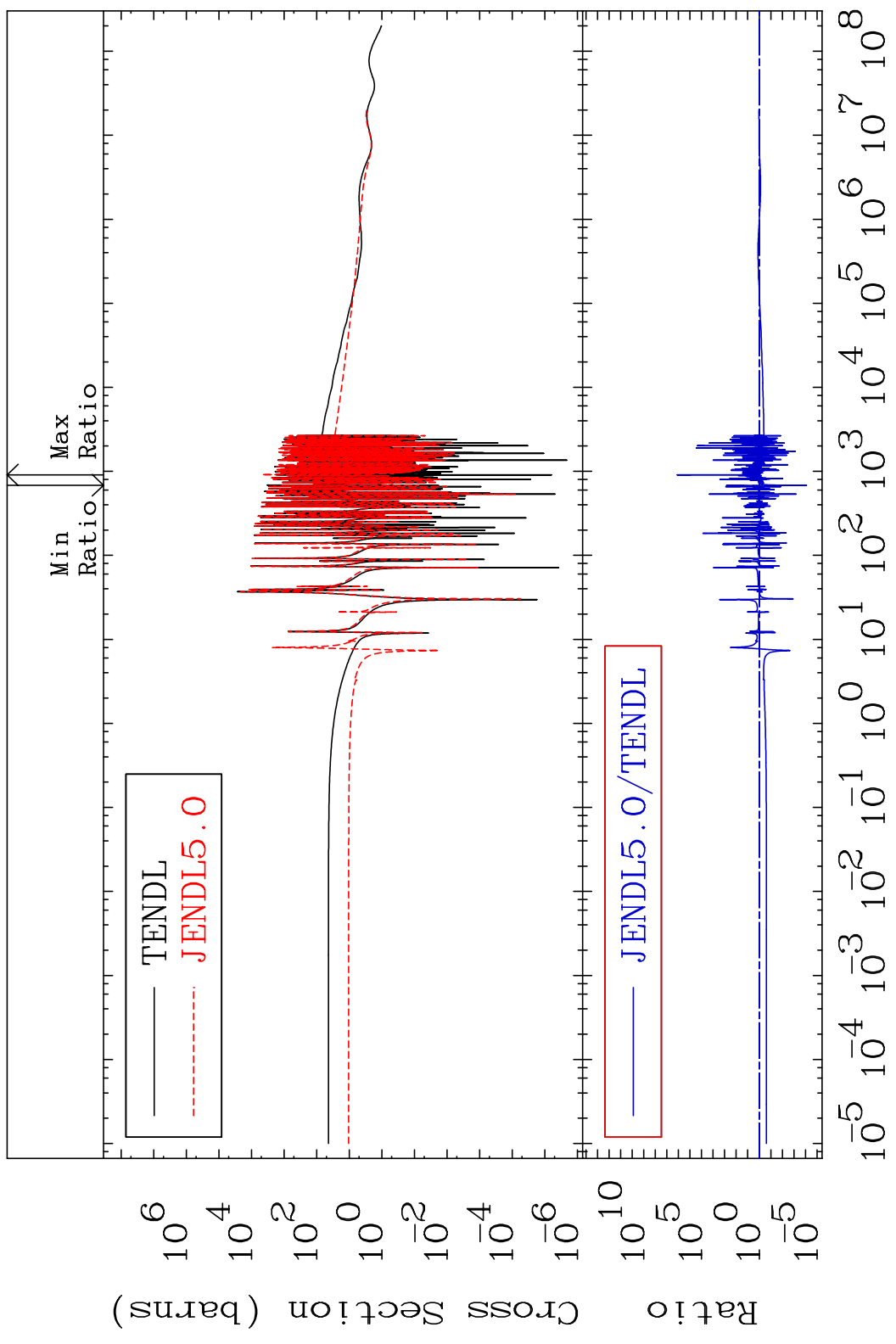
1

Incident Energy (eV)

64-Gd-152

MAT 6425

Elastic Cross Section -99.99 To 9999. % 64-Gd-152



2

Incident Energy (eV) 64-Gd-152

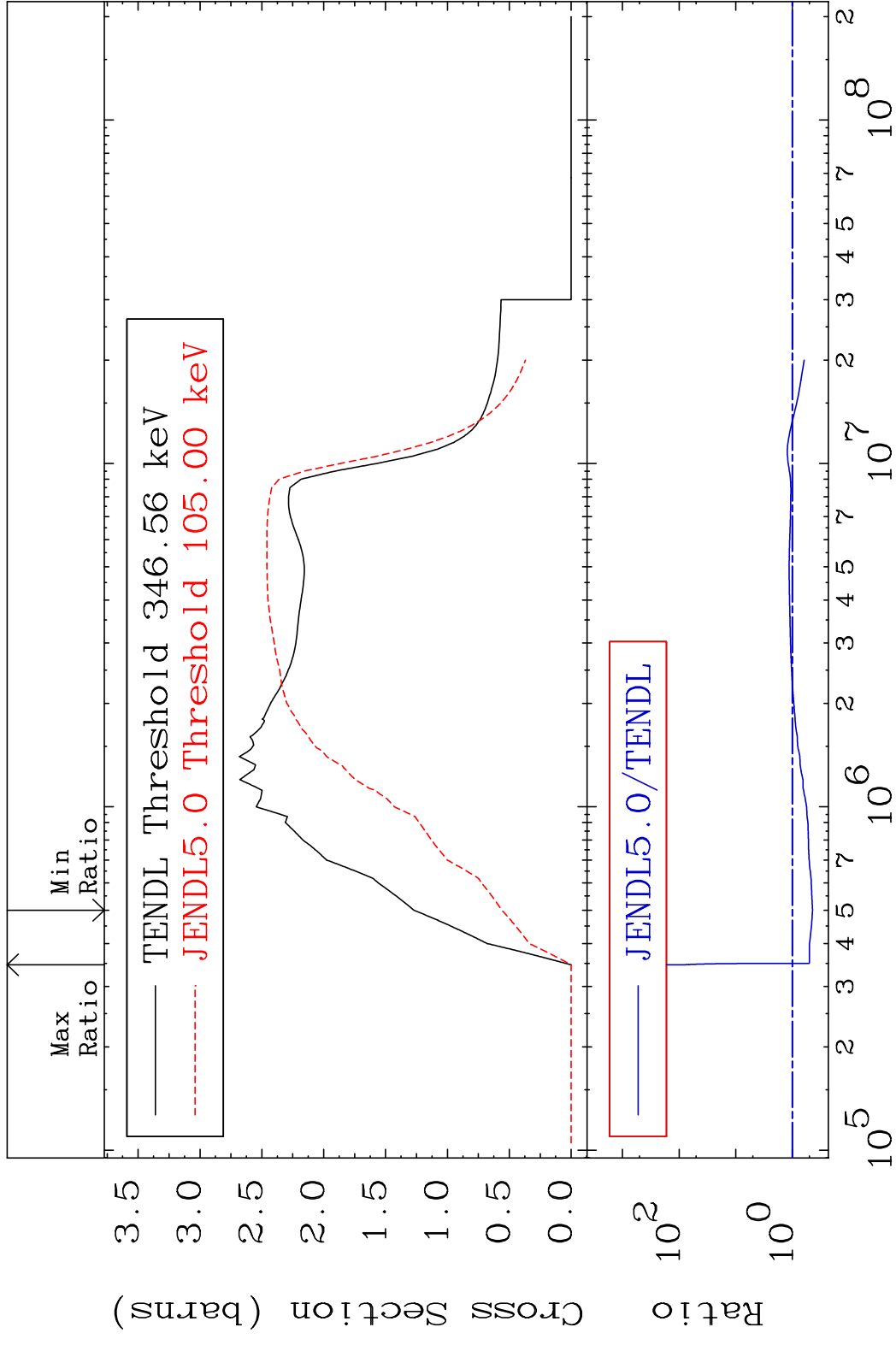
MAT 6425

Inelastic

64-Gd-152

Cross Section

-55.95 To 8667. %



3

Incident Energy (eV)

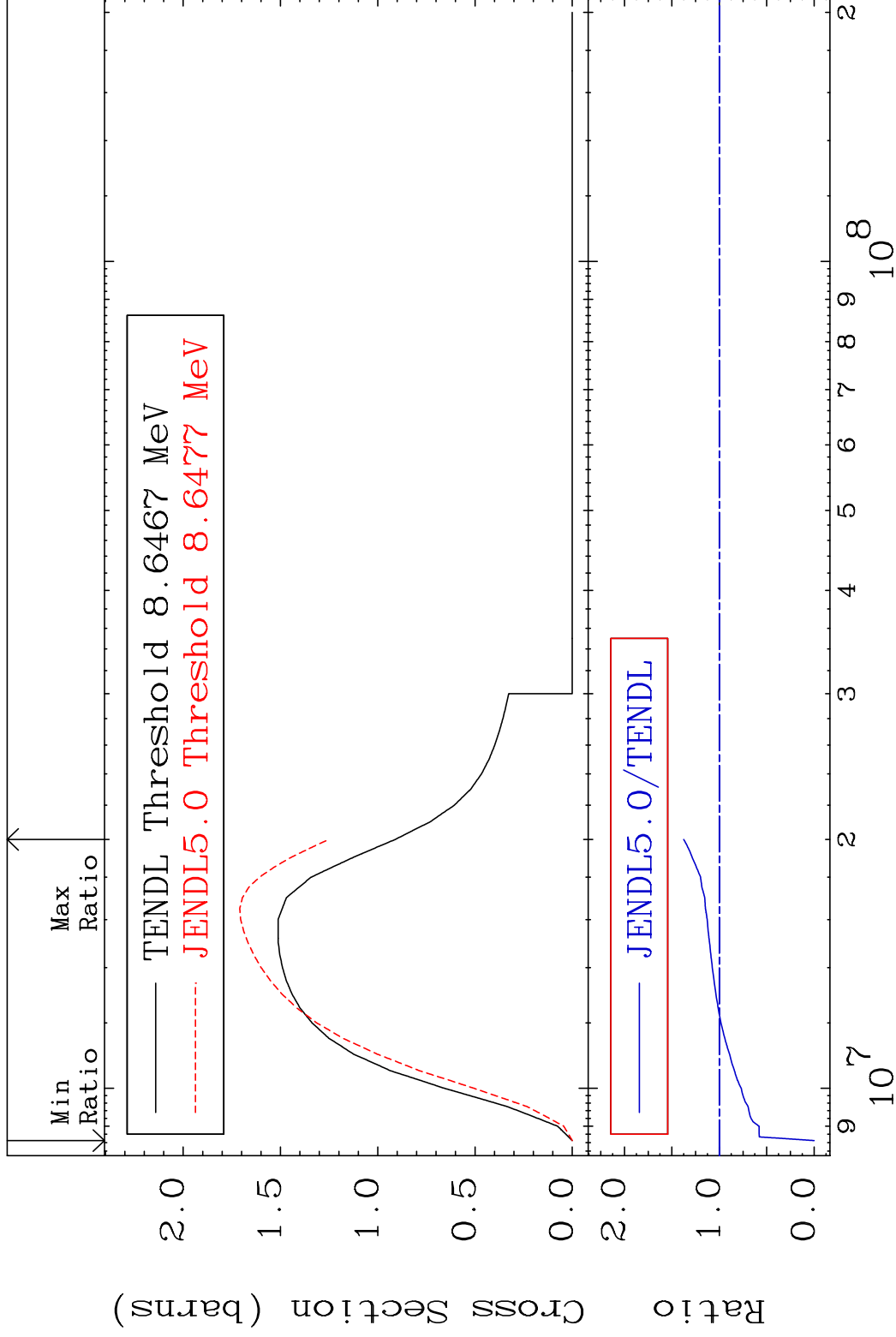
64-Gd-152

MAT 6425

(n,2n)

64-Gd-152

Cross Section -100.0 To 37.58 %



4

Incident Energy (eV)

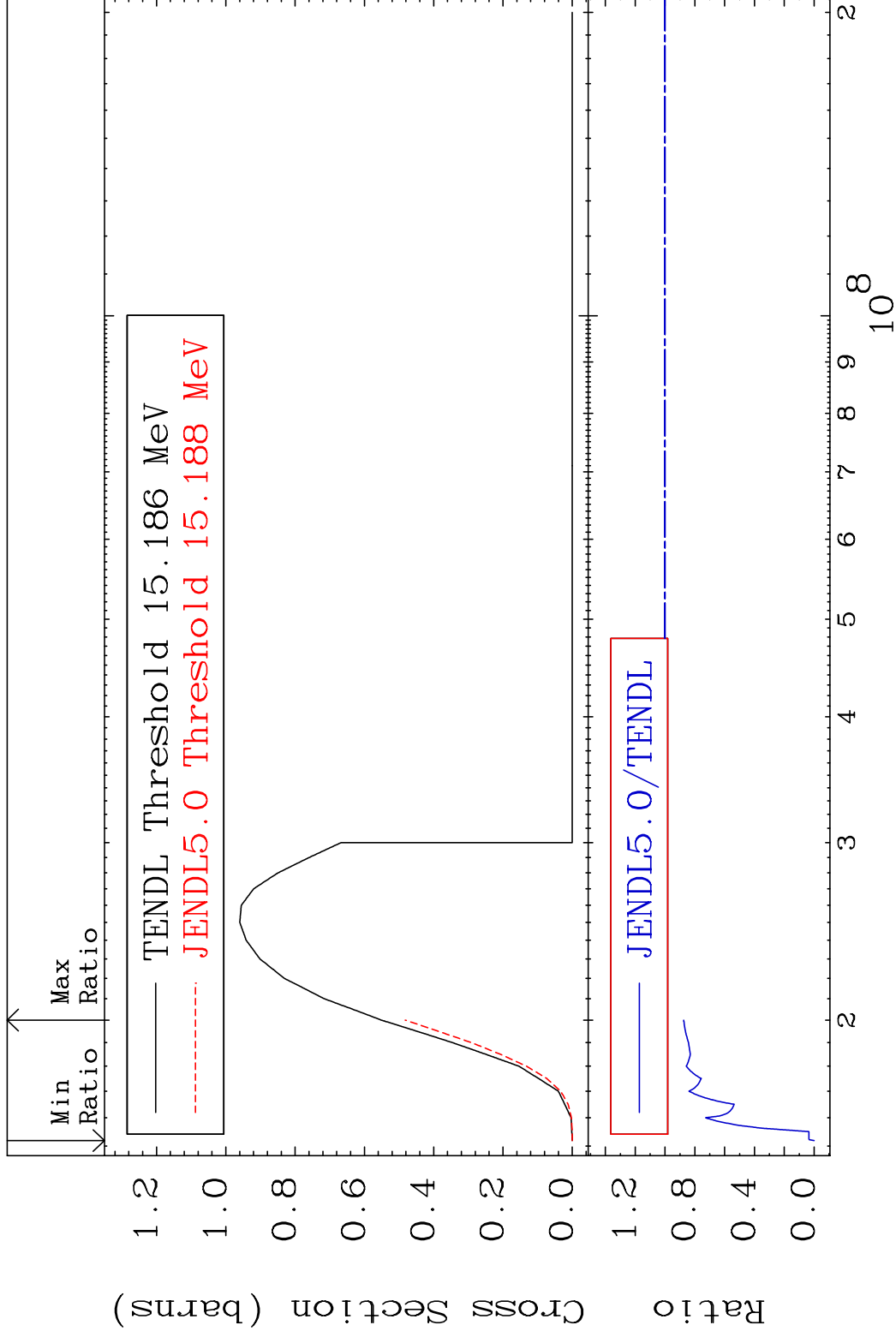
64-Gd-152

MAT 6425

(n,3n)

64-Gd-152

Cross Section -100.0 To -12.50%



5

Incident Energy (eV)

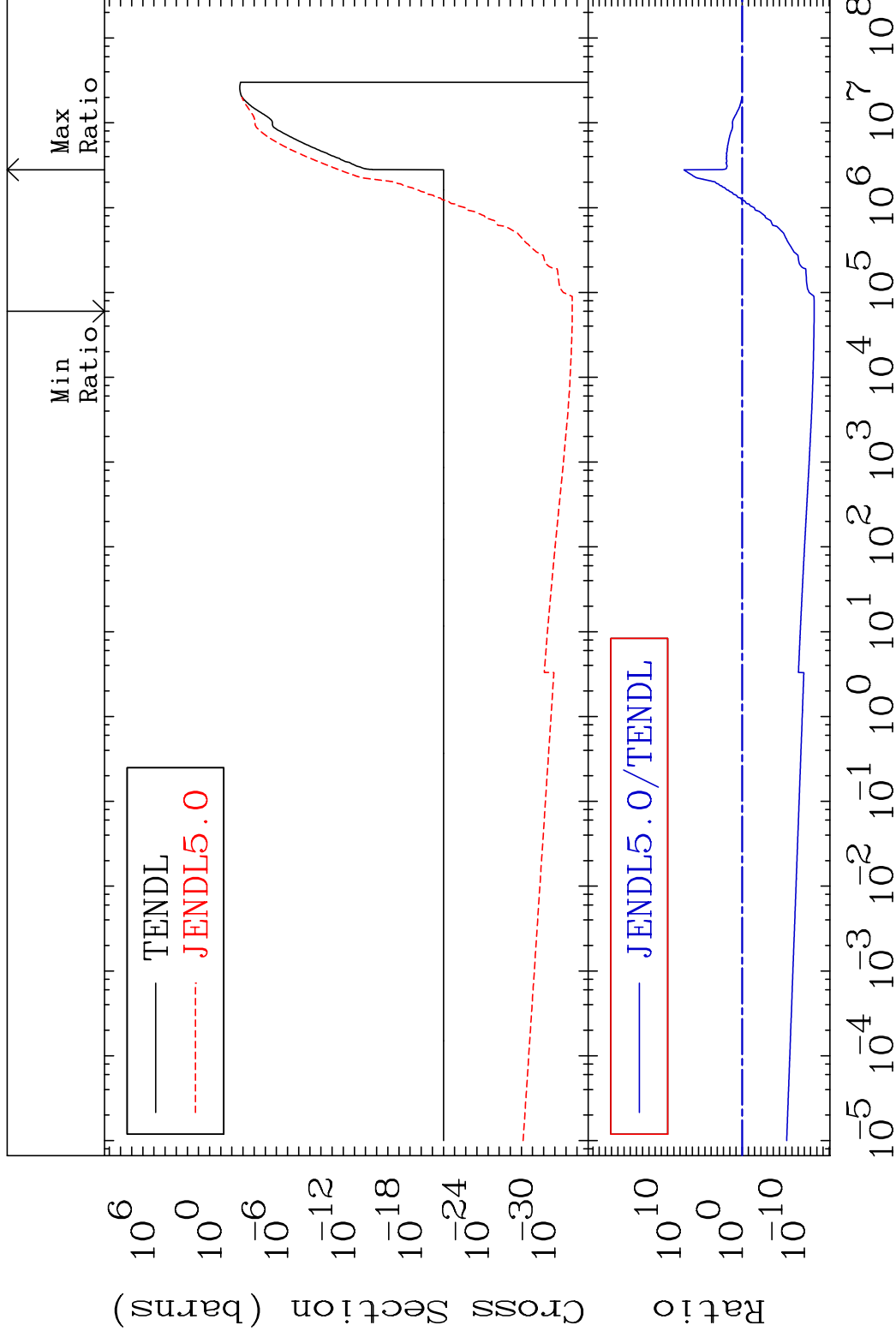
64-Gd-152

MAT 6425

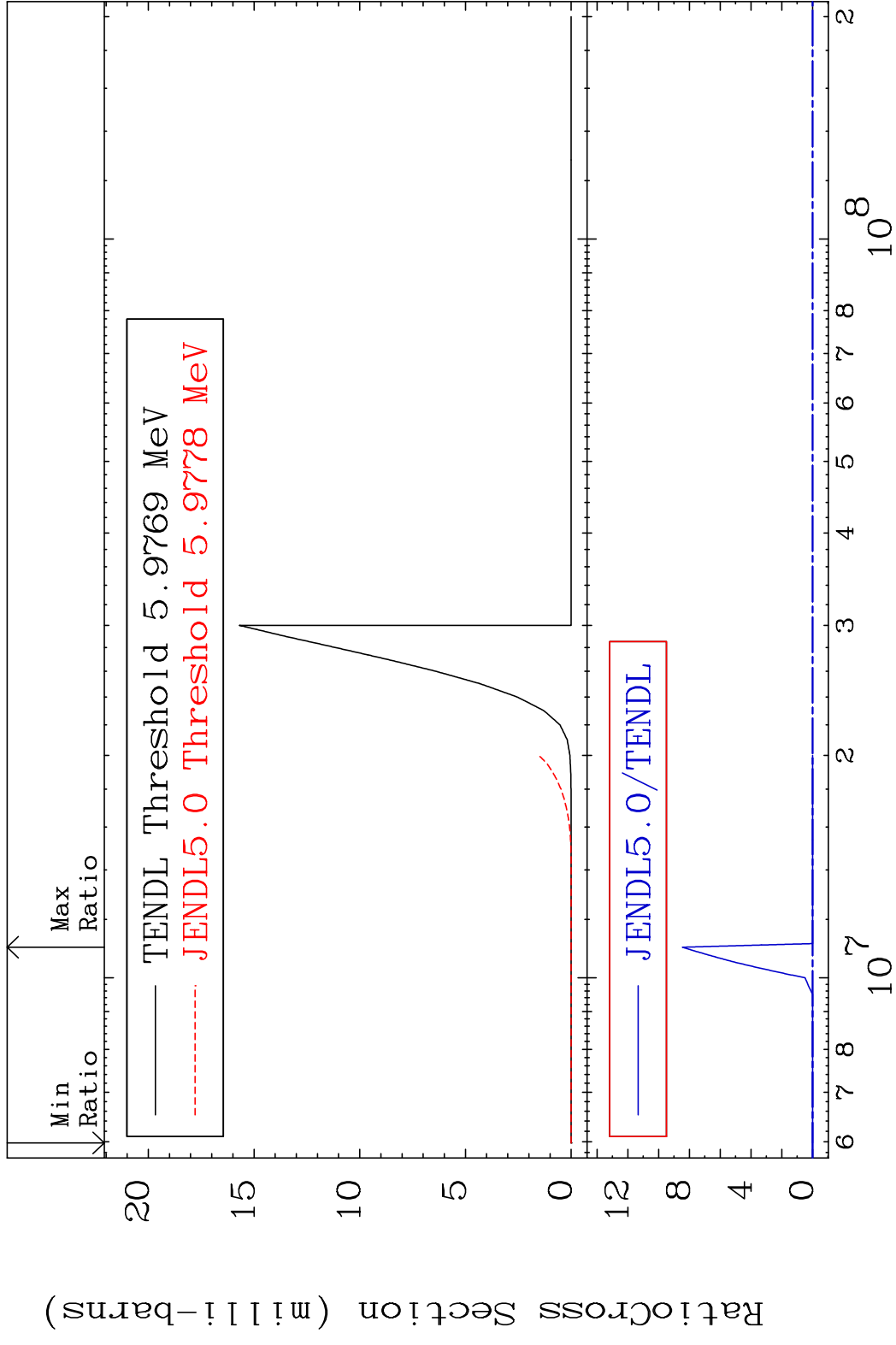
(n, n')  $\alpha$

64-Gd-152

Cross Section -100.0 To 9999. %



MAT 6425 (n,2n)  $\alpha$  64-Gd-152  
 Cross Section -100.0 To 9999. %



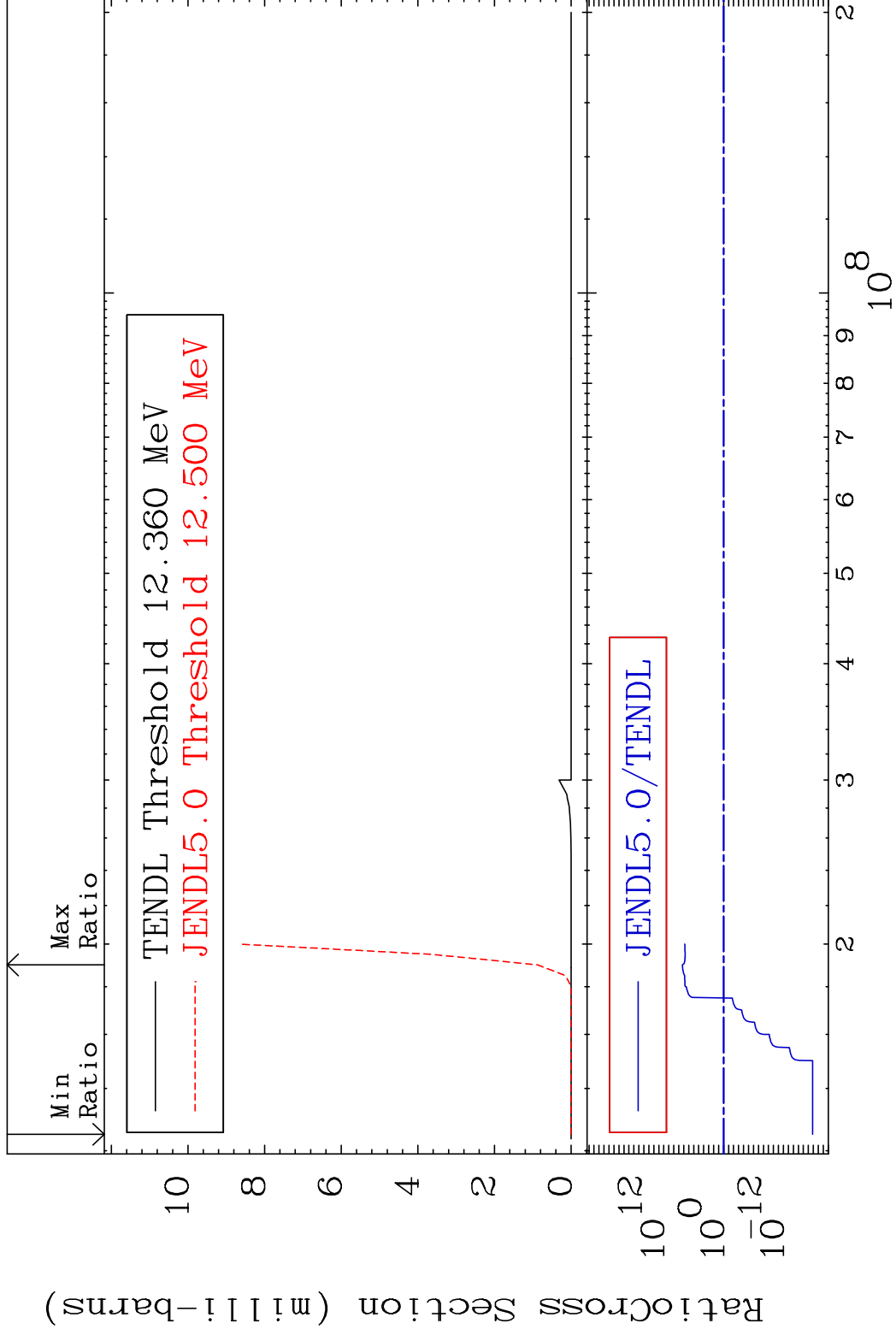


MAT 6425

(n,3n)  $\alpha$

64-Gd-152

Cross Section -100.0 To 9999. %



8

Incident Energy (eV)

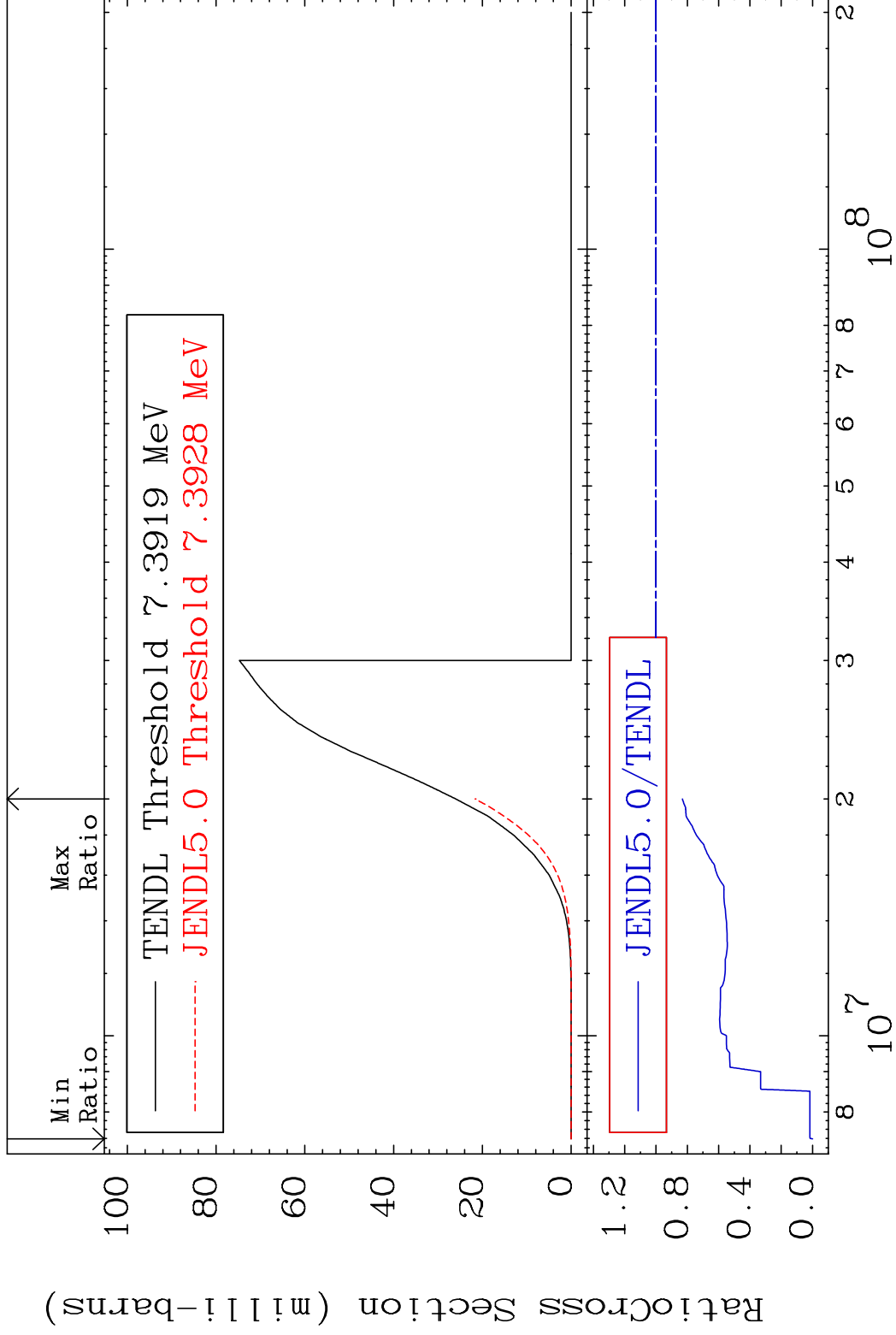
64-Gd-152

MAT 6425

(n, n') p

64-Gd-152

Cross Section -100.0 To -16.83%



9

Incident Energy (eV)

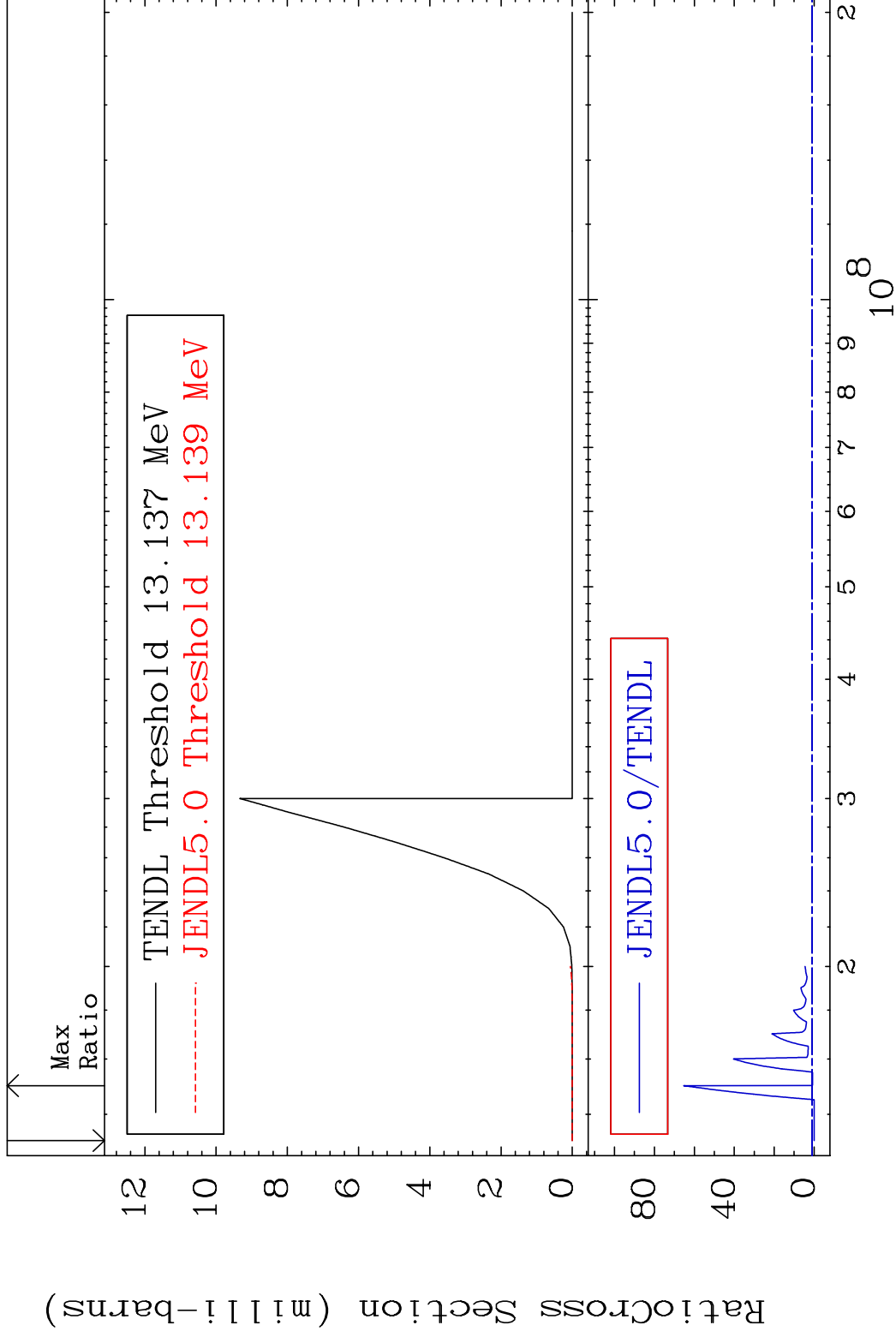
64-Gd-152

MAT 6425

(n, n') d

64-Gd-152

Cross Section -100.0 To 6434. %

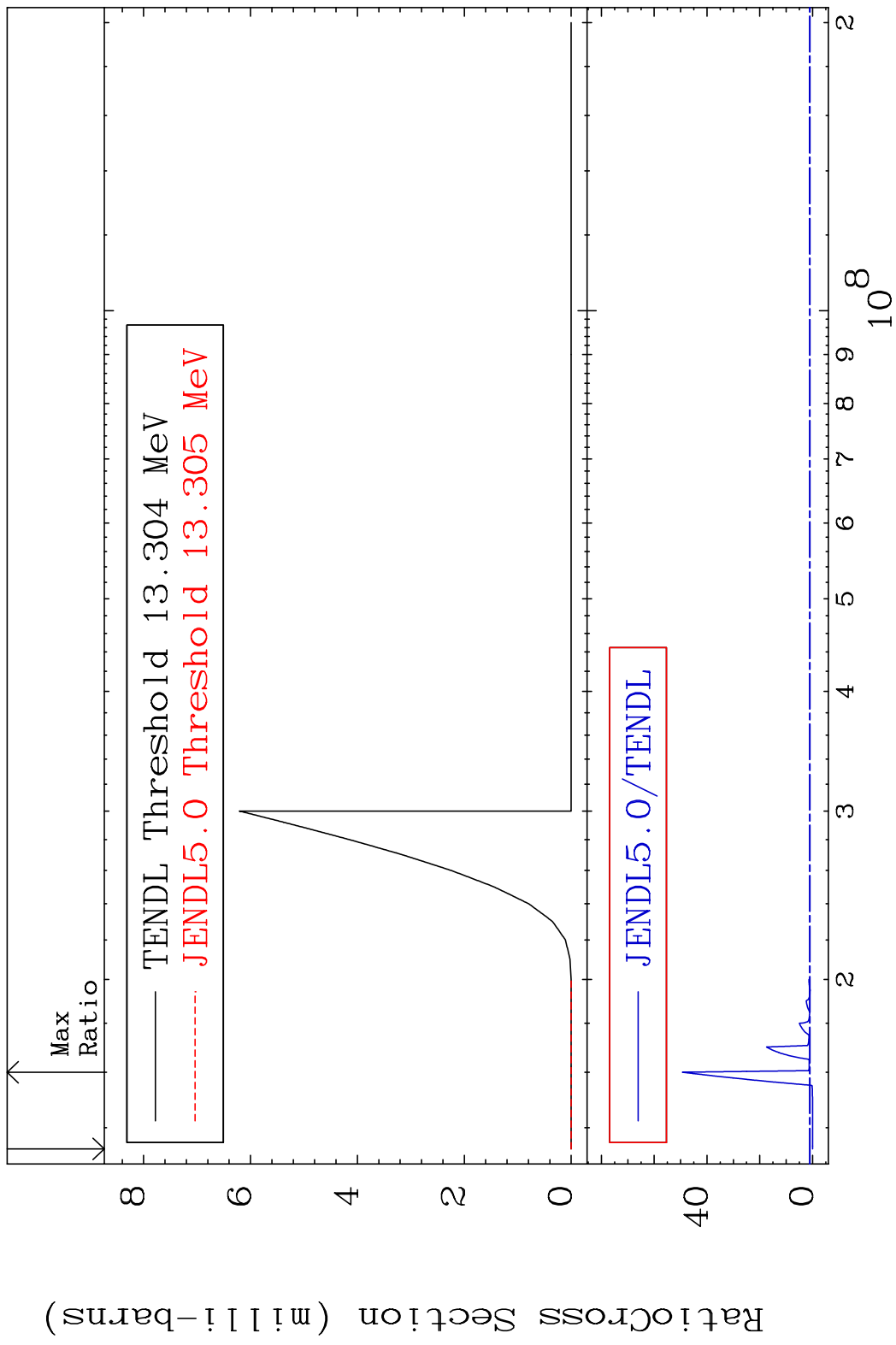


10

Incident Energy (eV)

64-Gd-152

MAT 6425 (n, n') t 64-Gd-152  
 Cross Section -100.0 To 4834. %

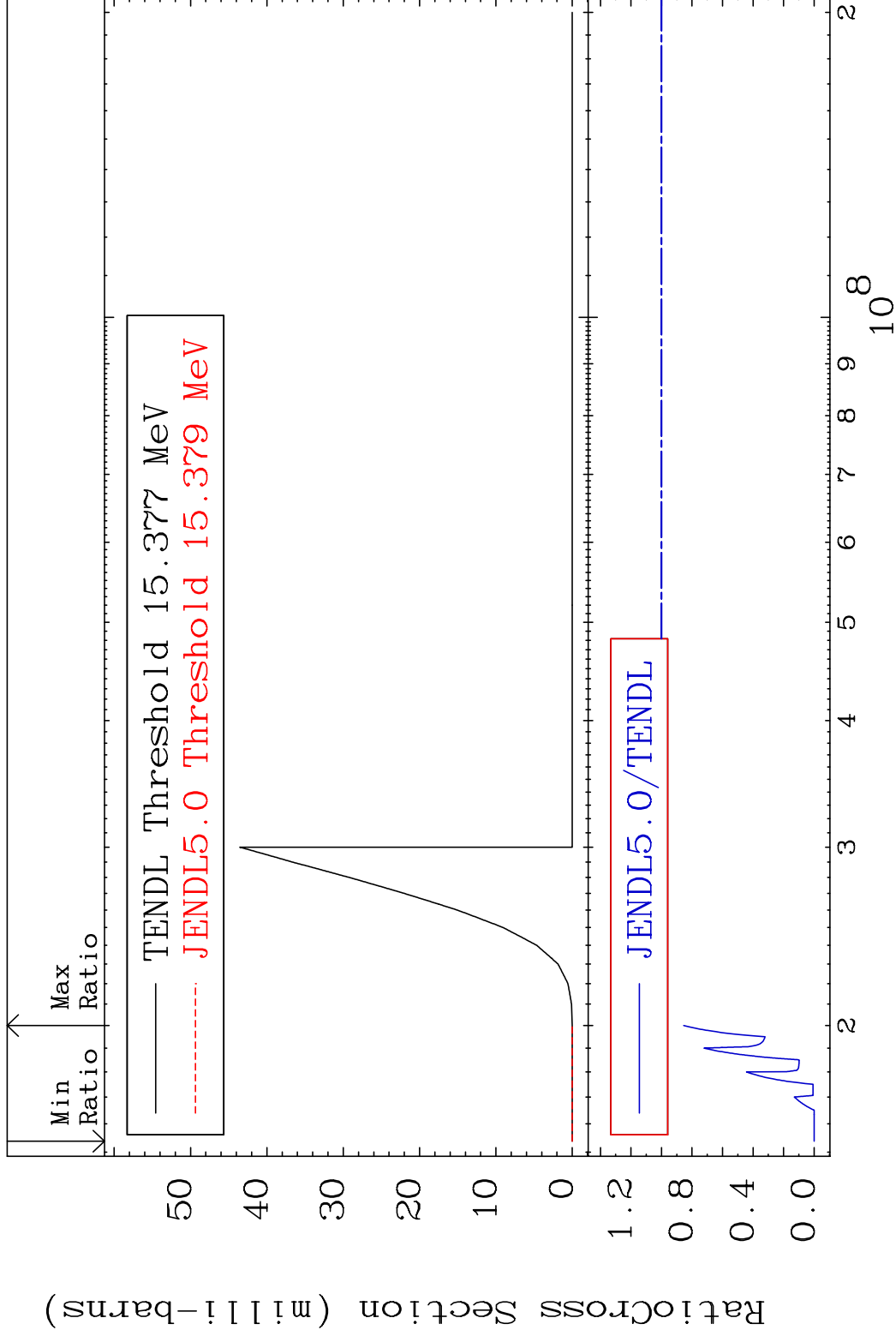


MAT 6425

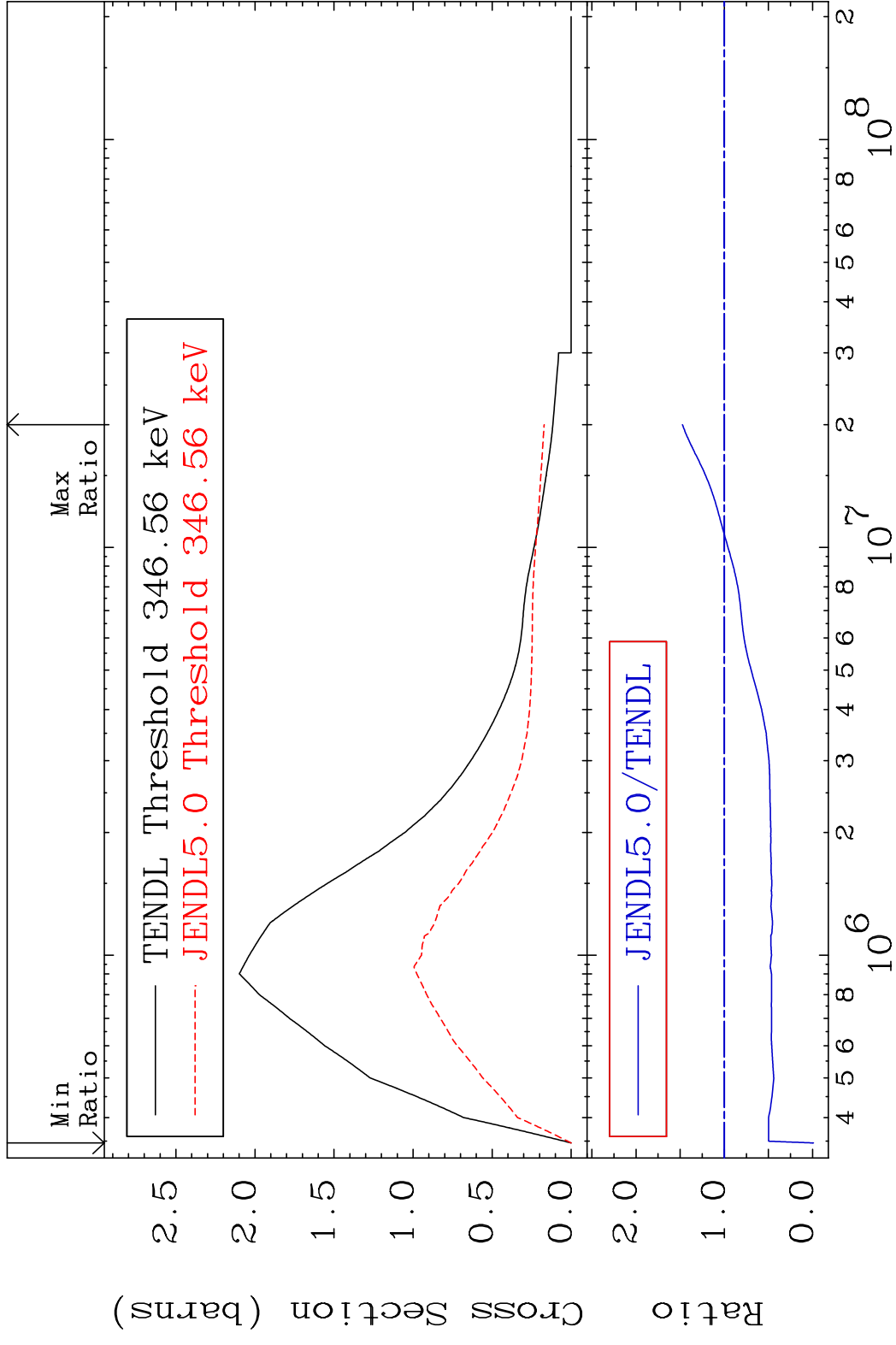
(n,2n) p

64-Gd-152

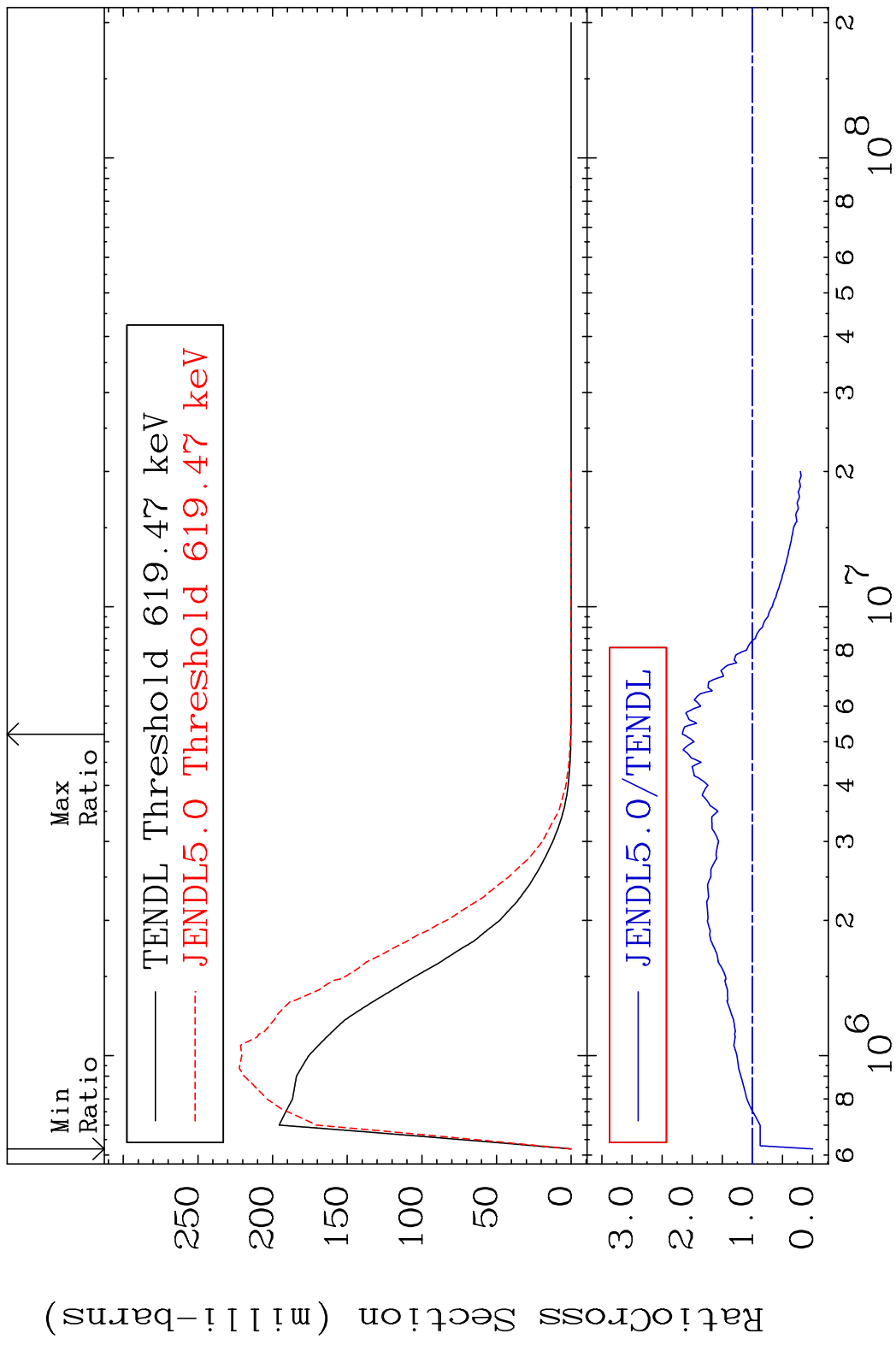
Cross Section -100.0 To -14.52%



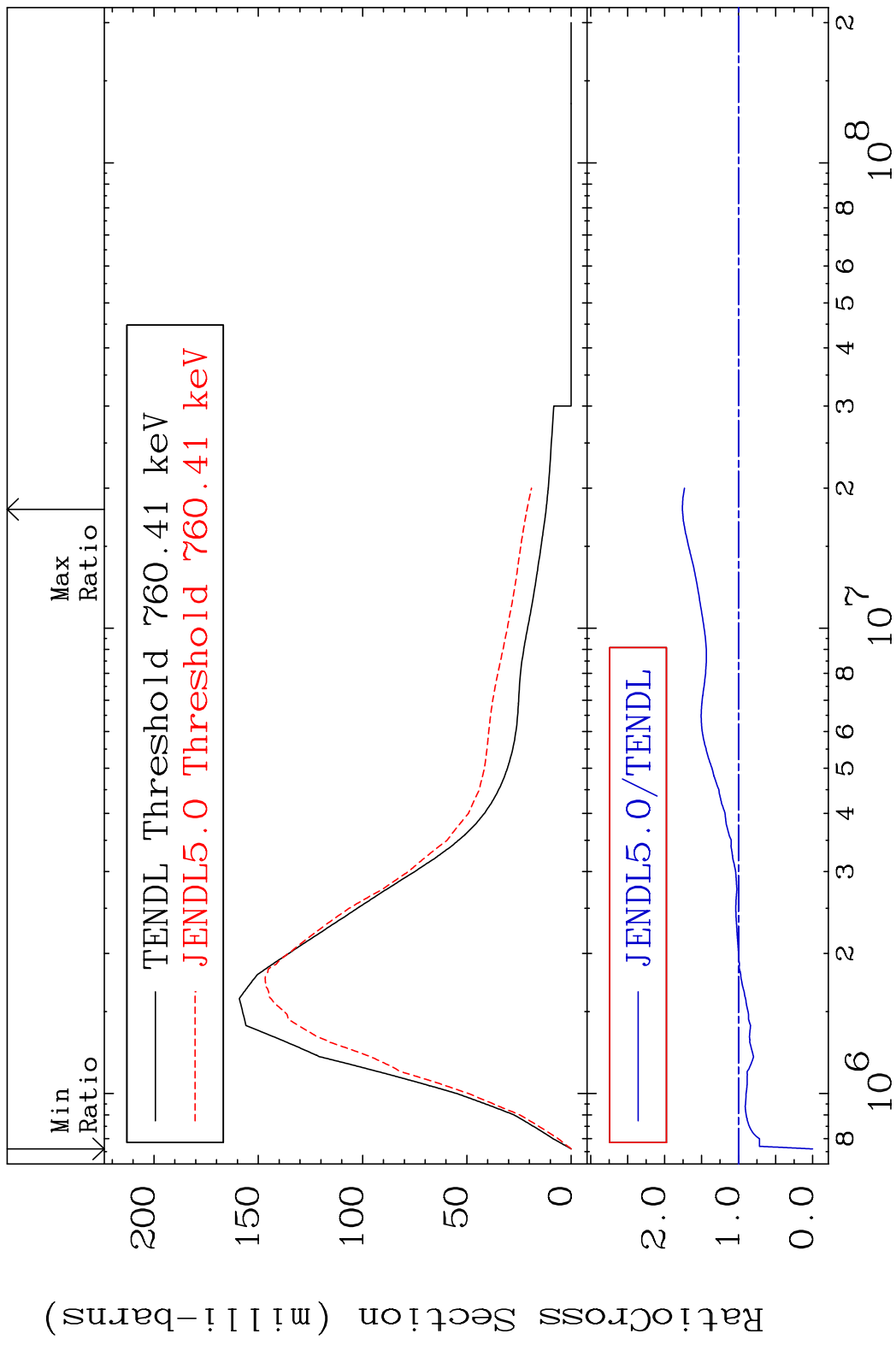
MAT 6425 MT= 51 (n, n') Level 64-Gd-152  
 Cross Section -100.0 To 47.51 %



MAT 6425 MT= 52 (n,n') Level 64-Gd-152  
 Cross Section -100.0 To 116.3 %



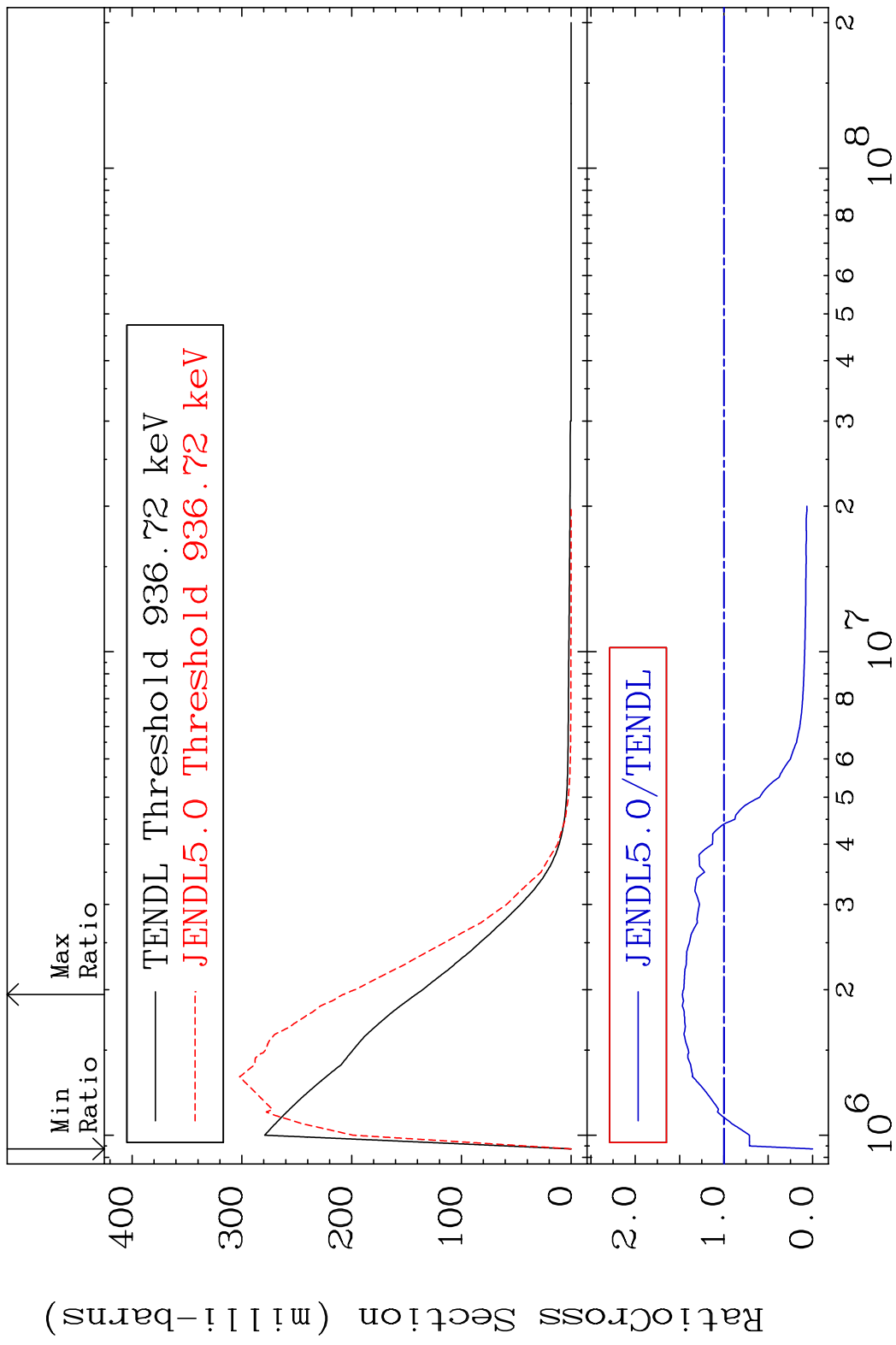
MAT 6425 MT= 53 (n, n') Level 64-Gd-152  
 Cross Section -100.0 To 76.00 %



15 Incident Energy (eV) 64-Gd-152

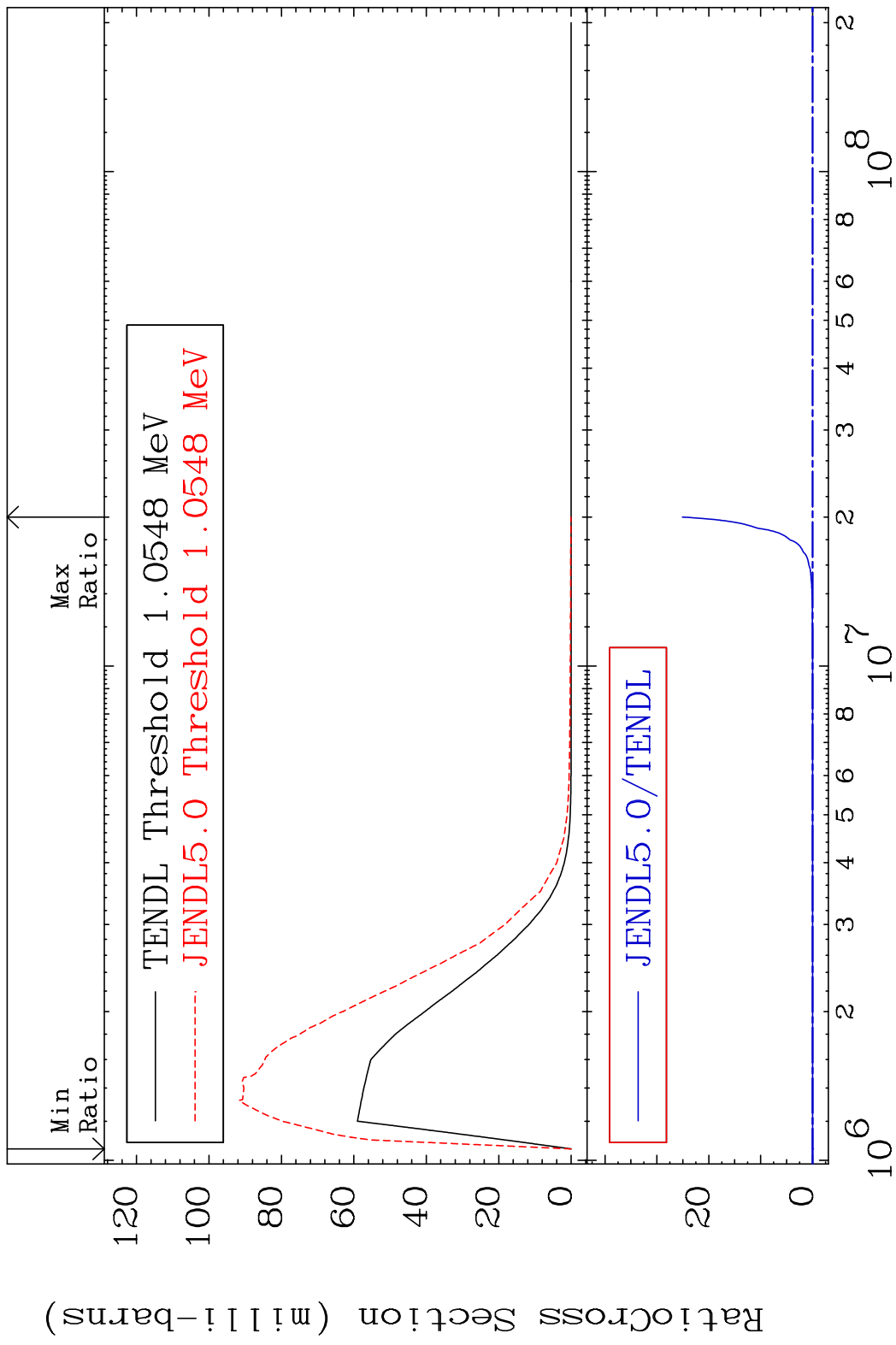


MAT 6425 MT= 54 (n,n') Level 64-Gd-152  
 Cross Section -100.0 To 46.86 %



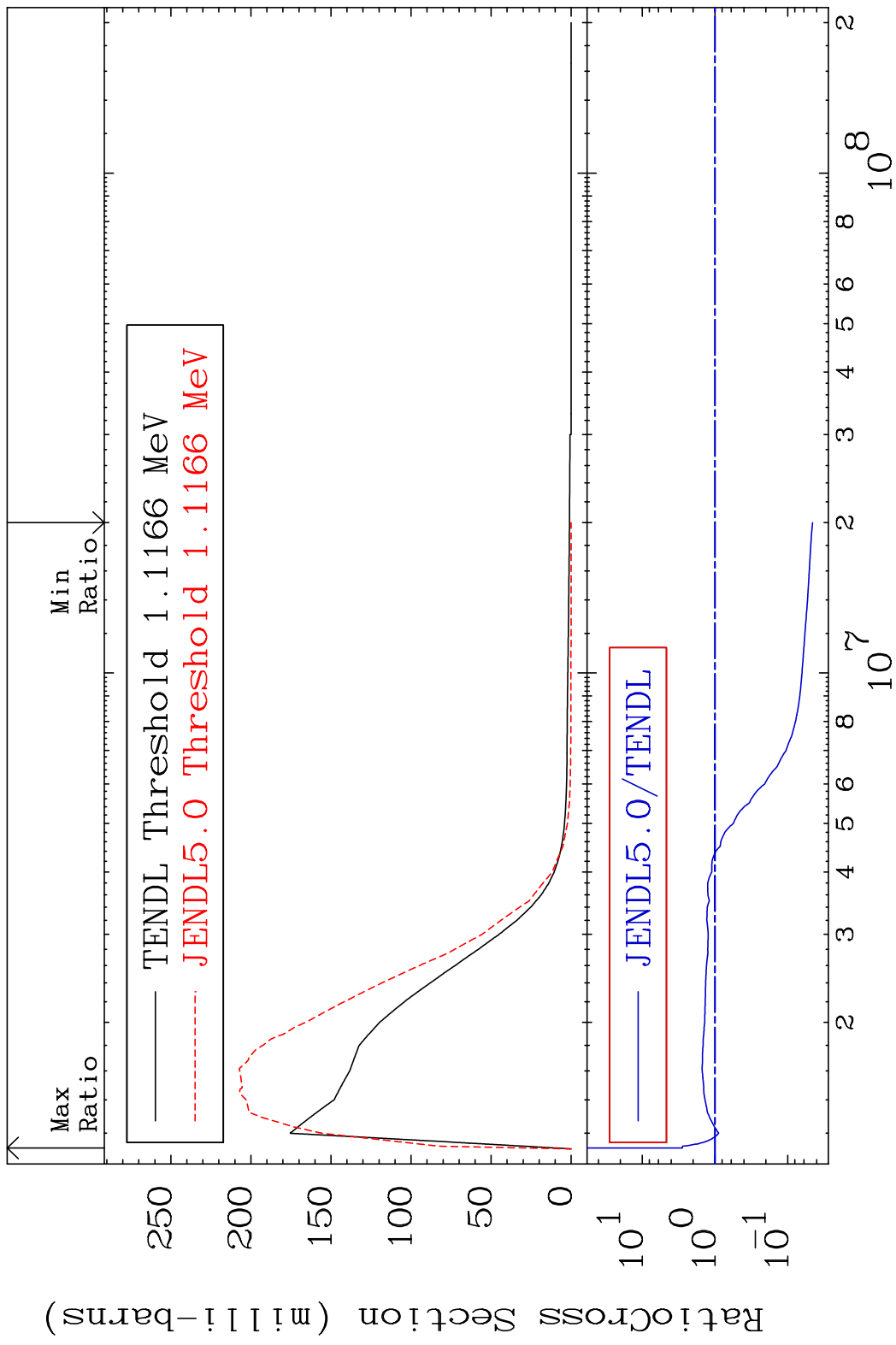
16 Incident Energy (eV) 64-Gd-152

MAT 6425 MT= 55 (n, n') Level 64-Gd-152  
 Cross Section -100.0 To 9999. %

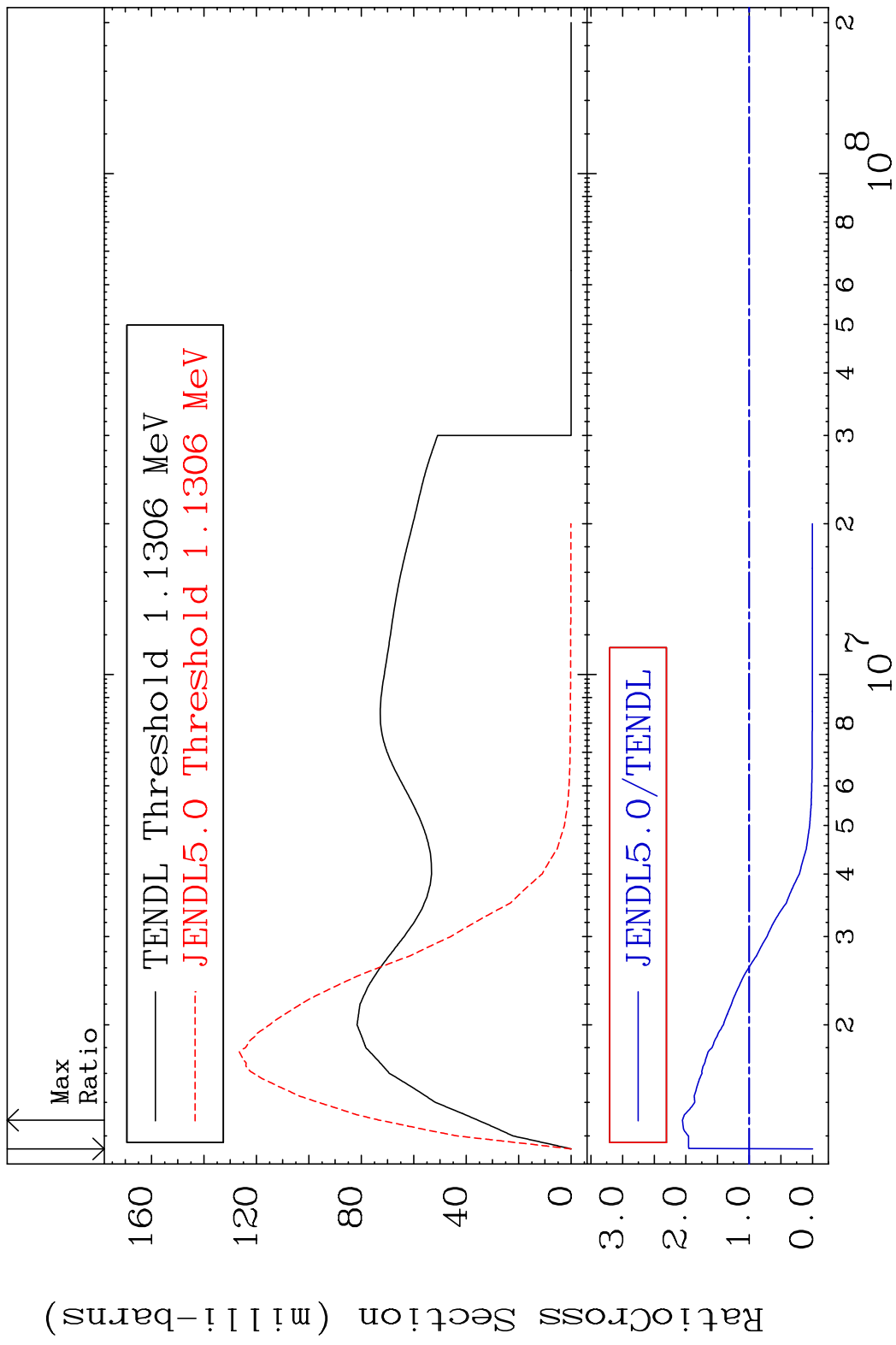


17 Incident Energy (eV) 64-Gd-152

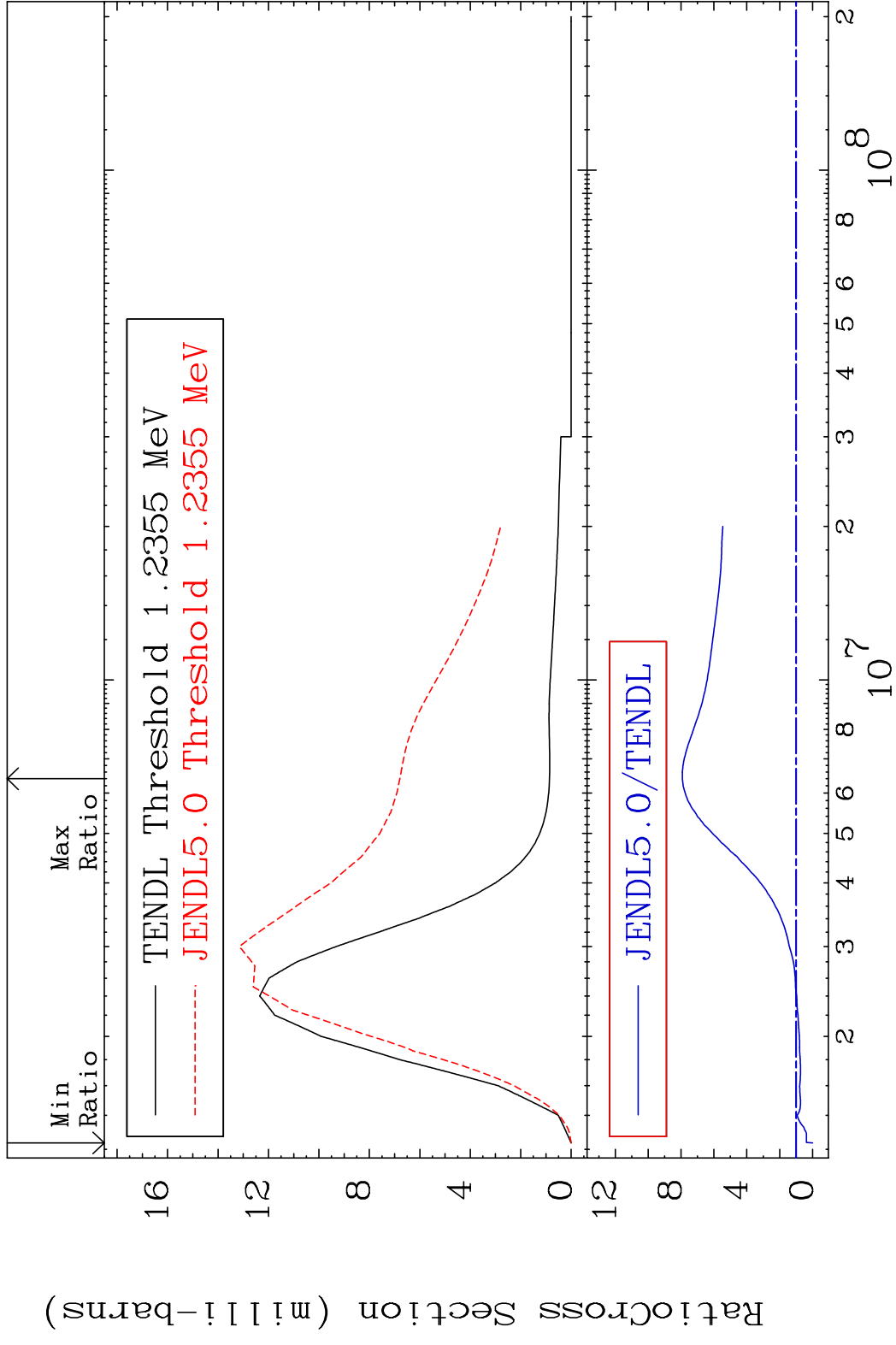
MAT 6425 MT= 56 (n, n') Level 64-Gd-152  
 Cross Section -95.45 To 180.6 %



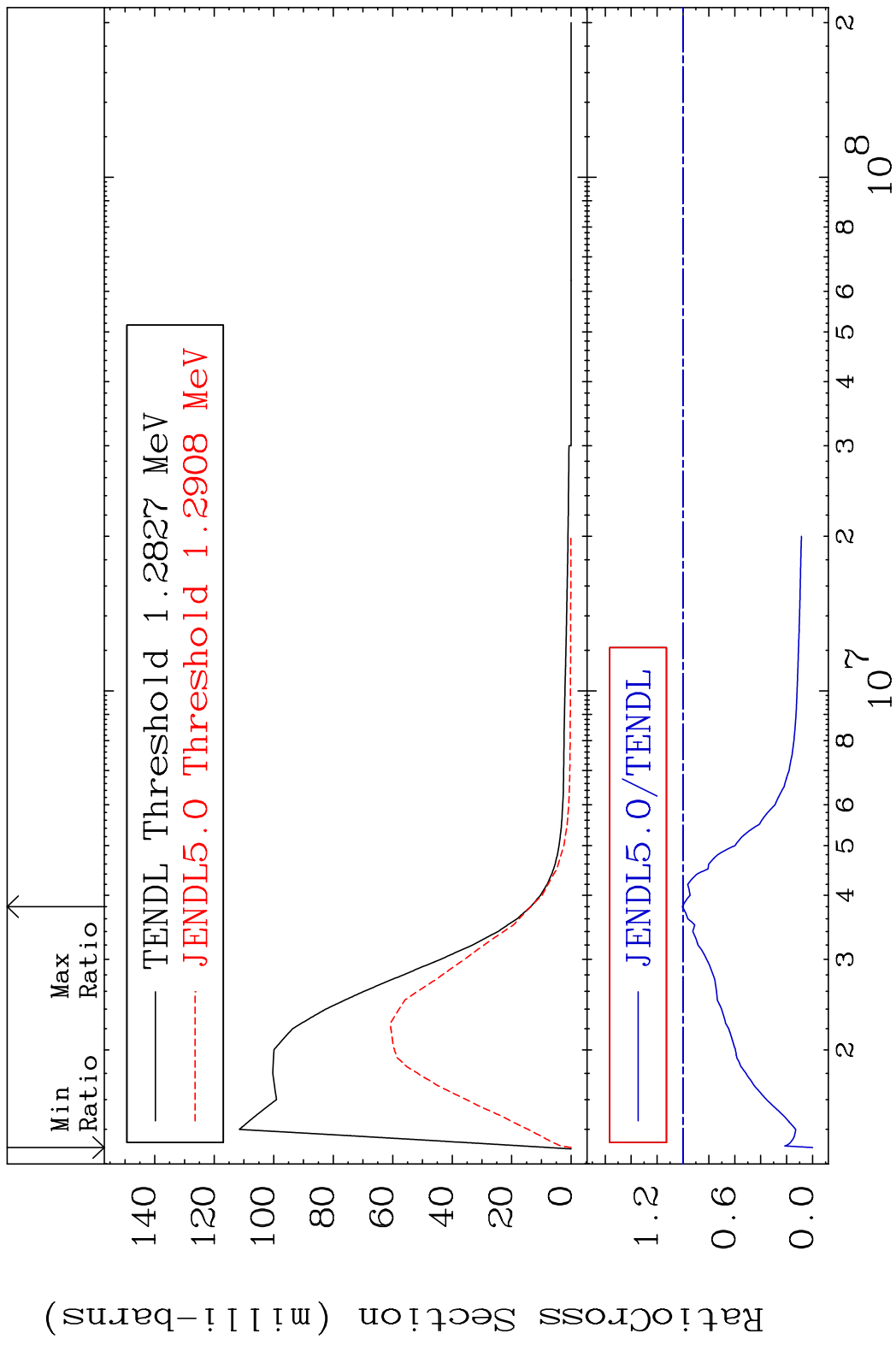
MAT 6425 MT= 57 (n, n') Level 64-Gd-152  
 Cross Section -100.0 To 105.6 %



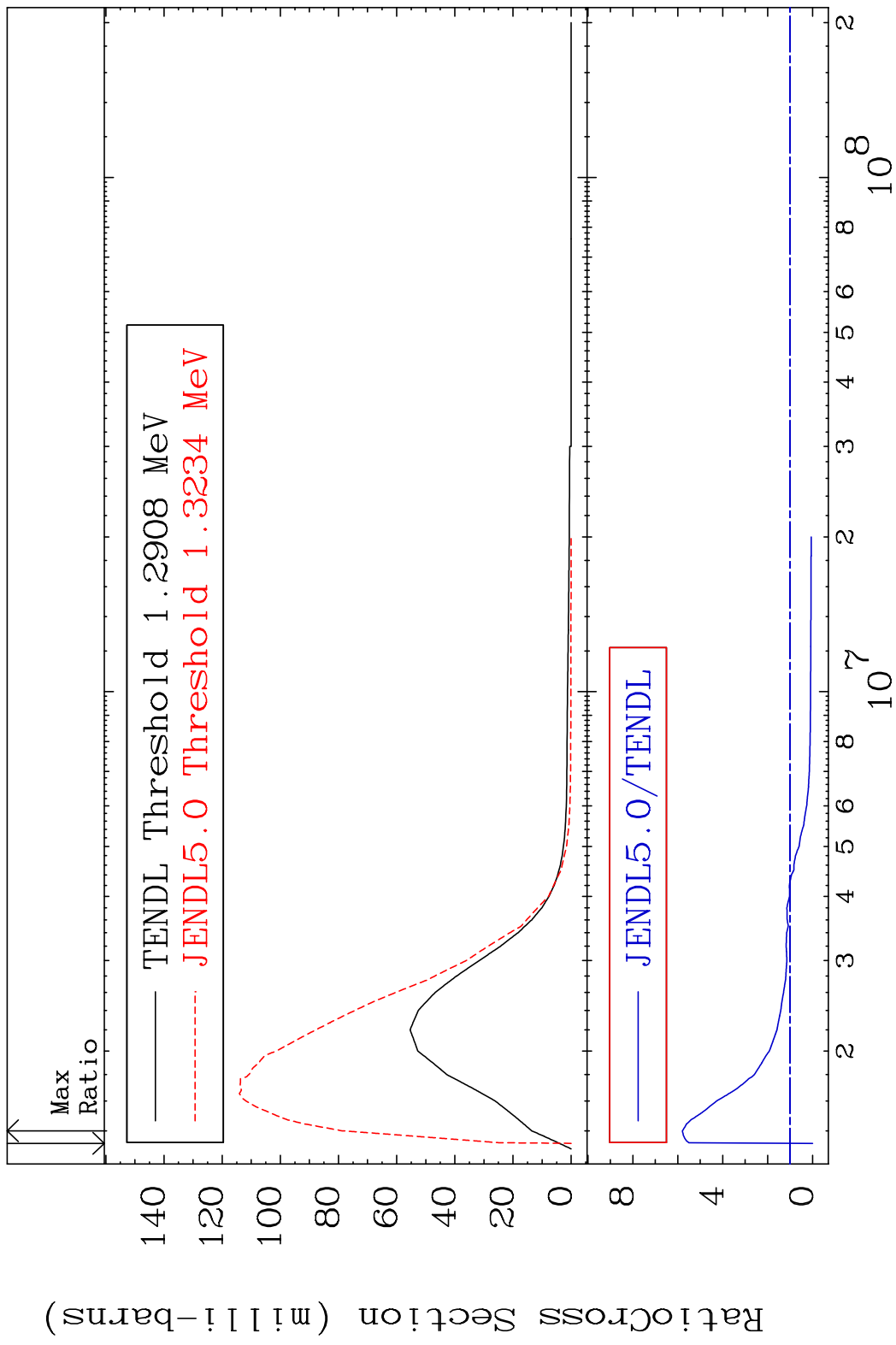
MAT 6425 MT= 58 (n,n') Level 64-Gd-152  
 Cross Section -100.0 To 692.0 %



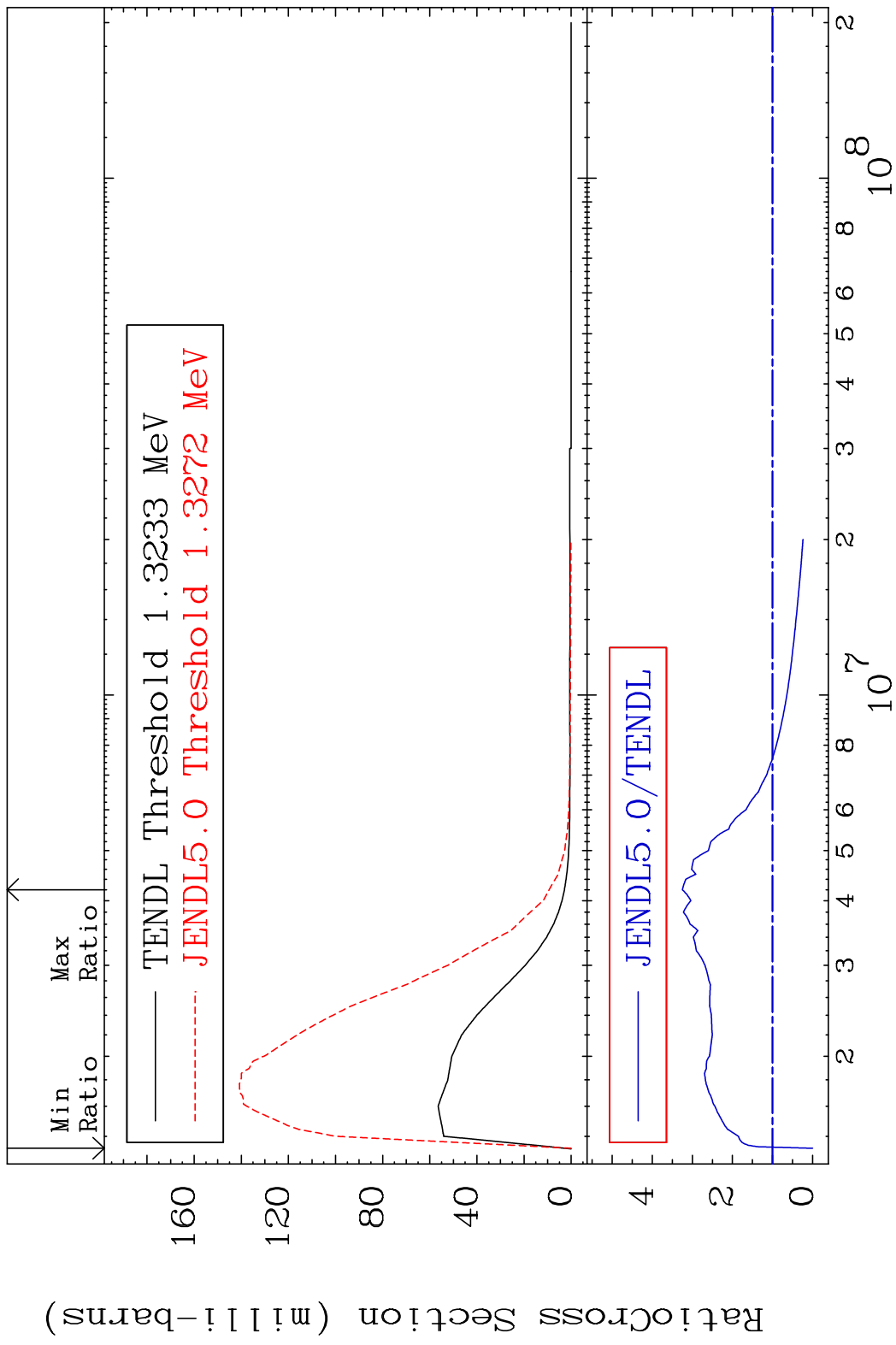
MAT 6425 MT= 59 (n,n') Level 64-Gd-152  
 Cross Section -100.0 To 0.475 %



MAT 6425 MT= 60 (n, n') Level 64-Gd-152  
 Cross Section -100.0 To 479.7 %

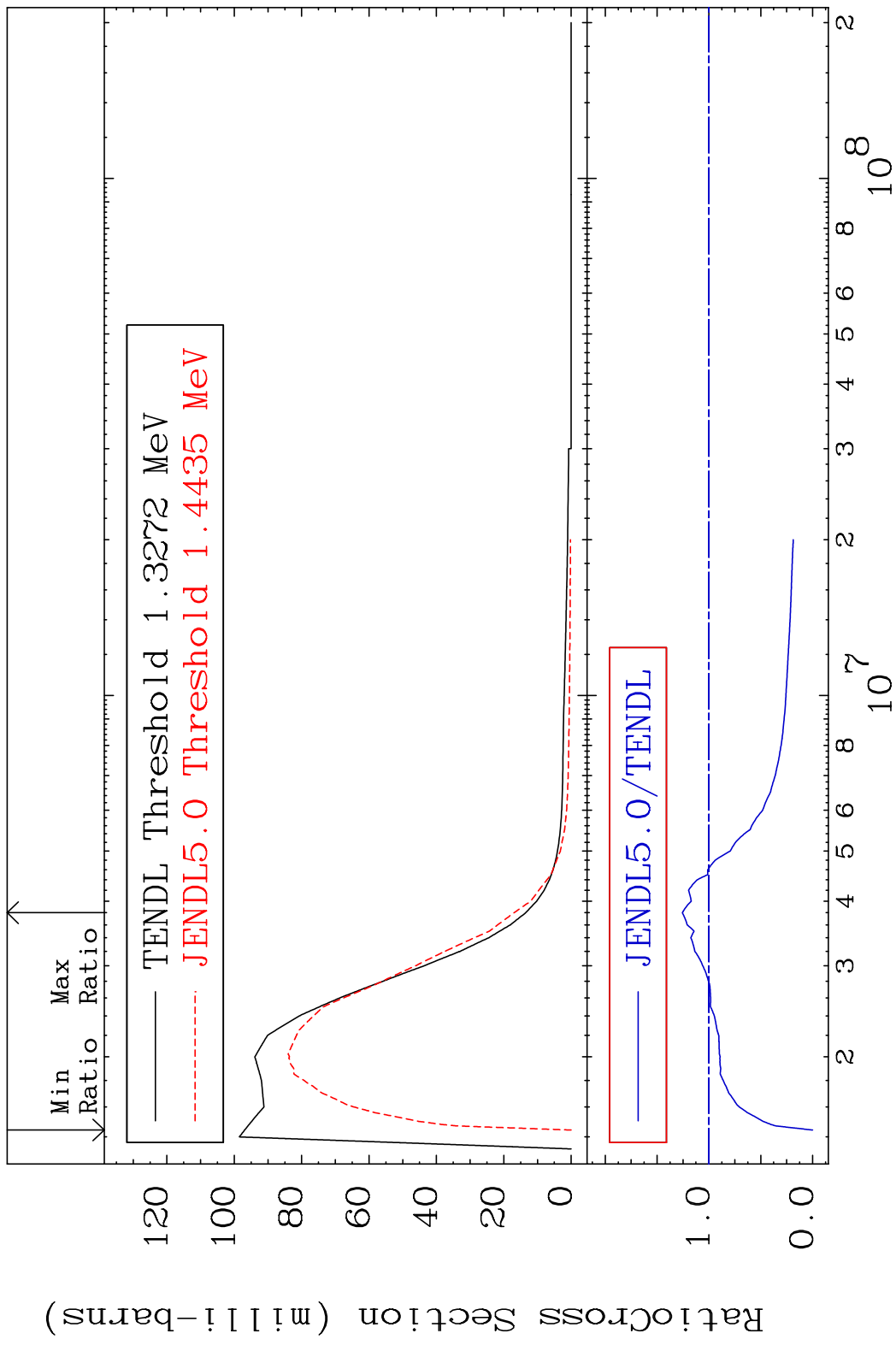


MAT 6425 MT= 61 (n, n') Level 64-Gd-152  
 Cross Section -100.0 To 225.0 %

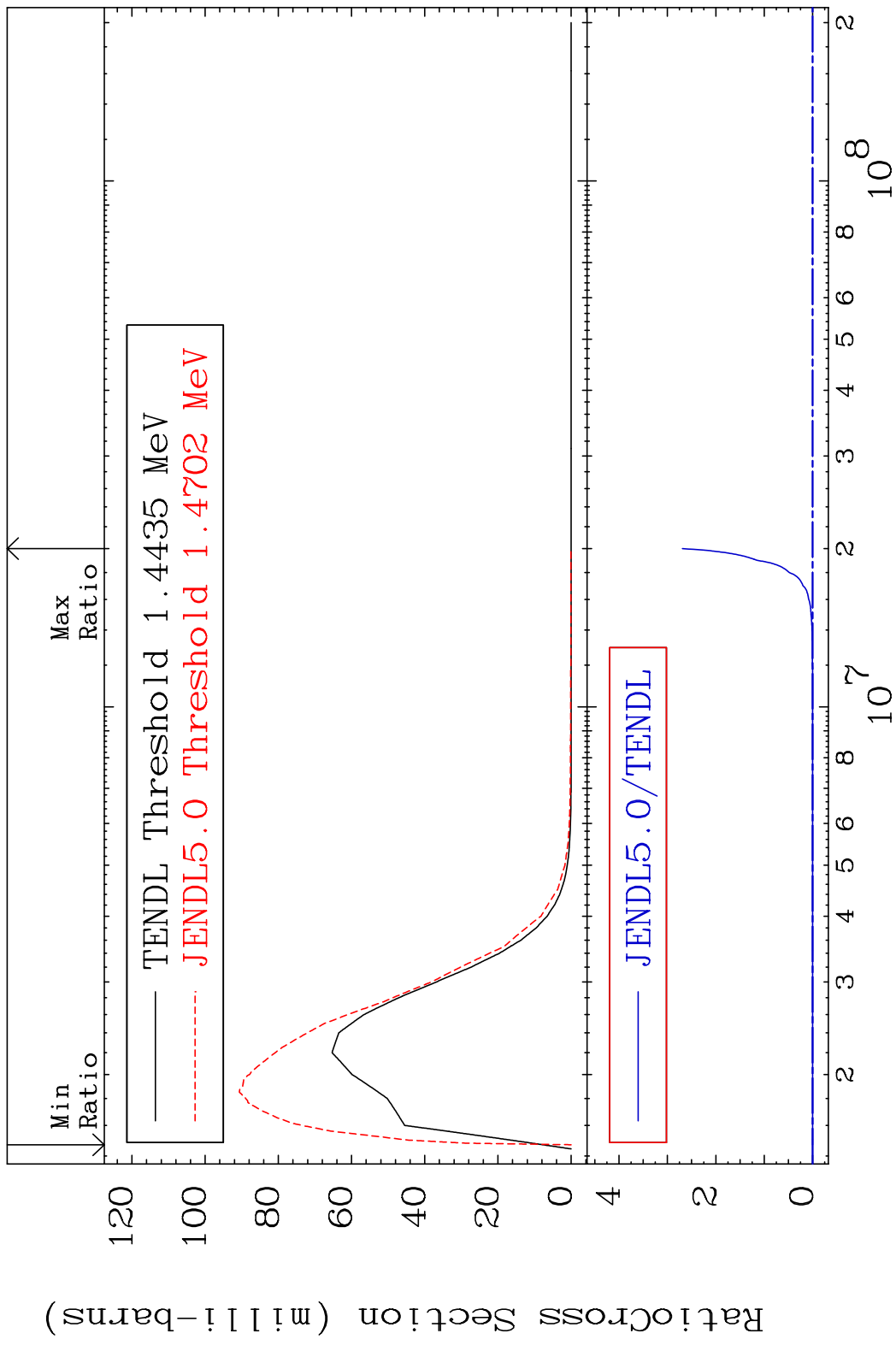




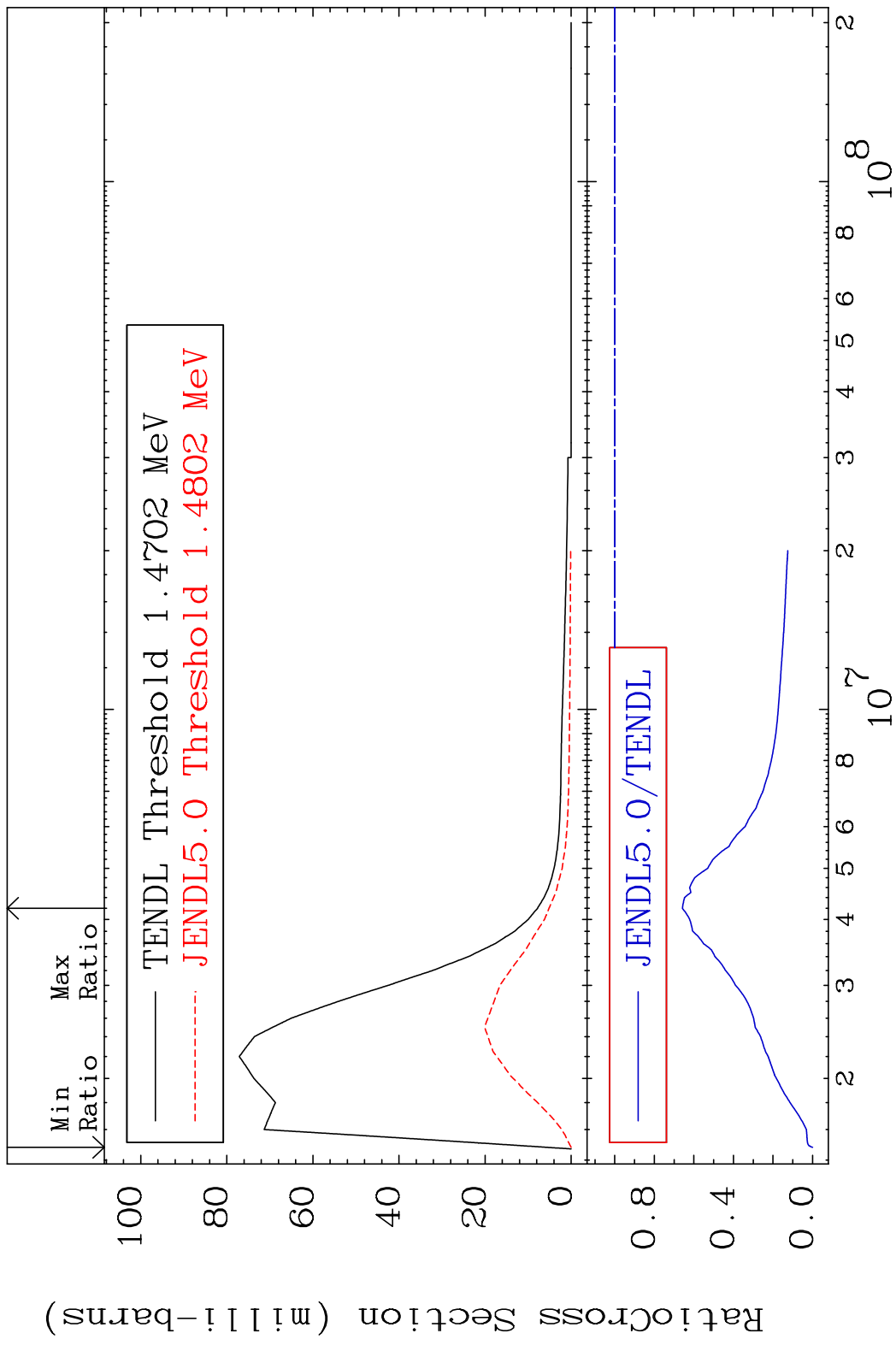
MAT 6425 MT= 62 (n,n') Level 64-Gd-152  
 Cross Section -100.0 To 25.61 %



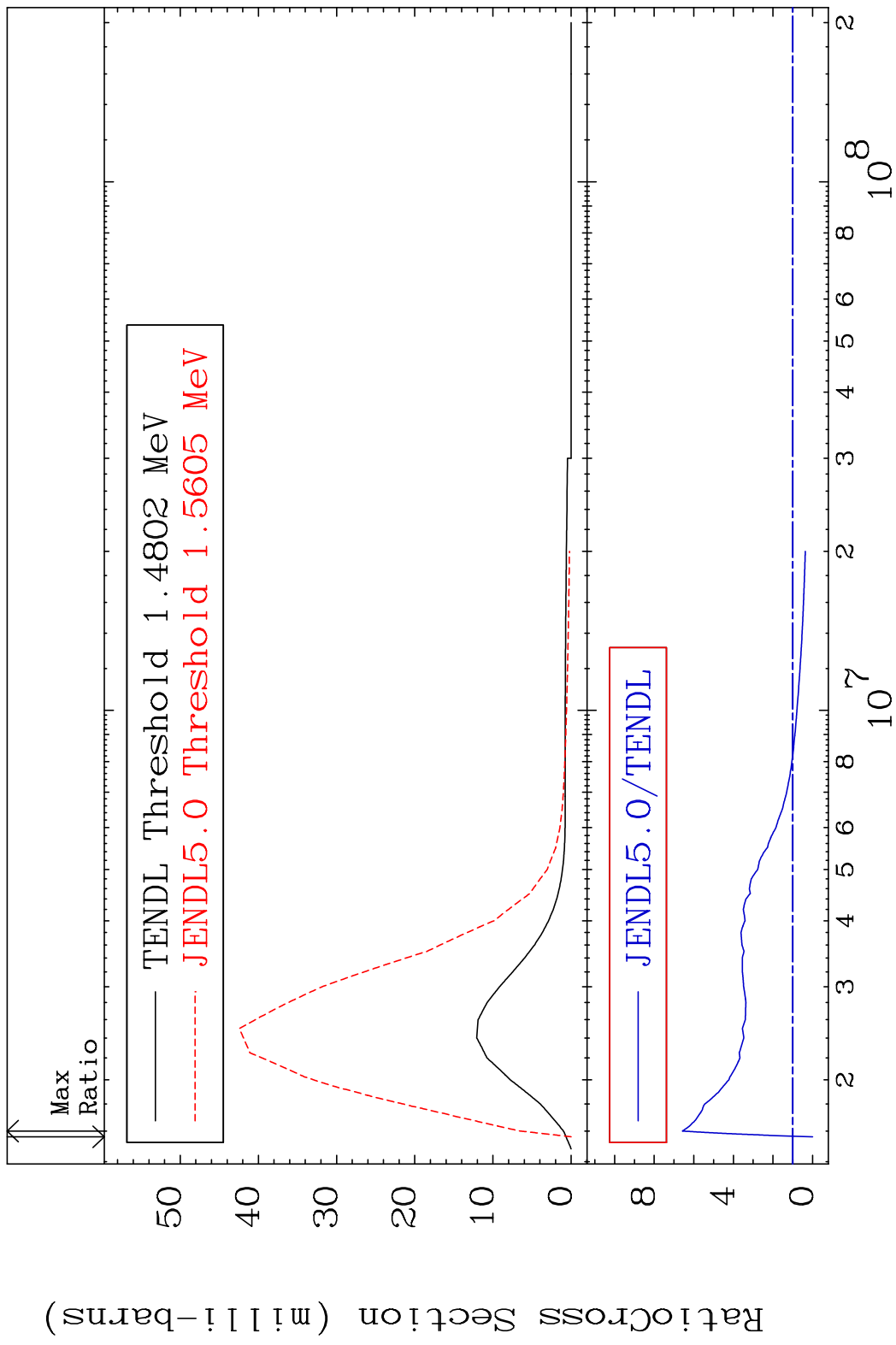
MAT 6425 MT= 63 (n, n') Level 64-Gd-152  
 Cross Section -100.0 To 9999. %



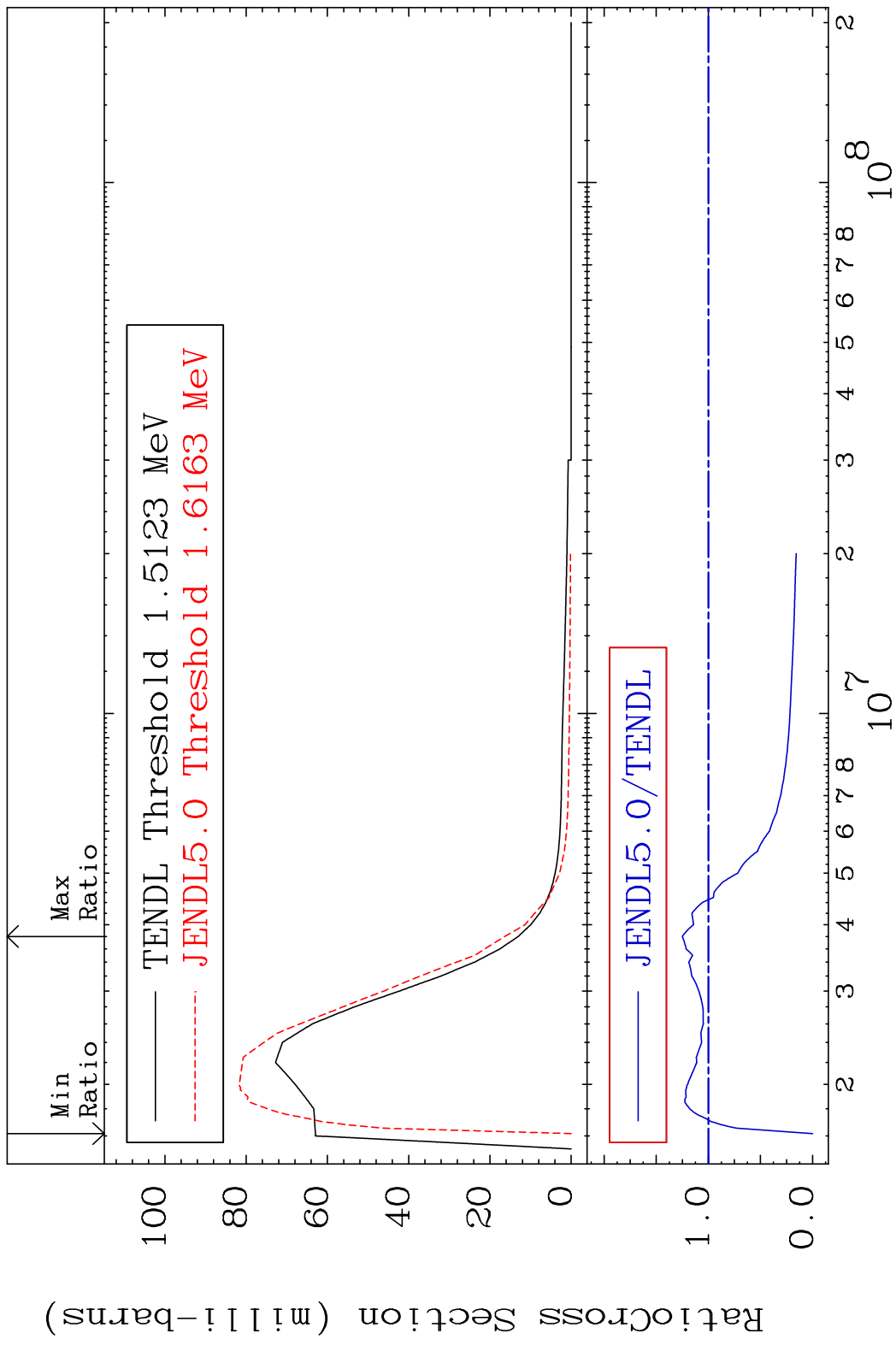
MAT 6425 MT= 64 (n,n') Level 64-Gd-152  
 Cross Section -100.0 To -34.18%



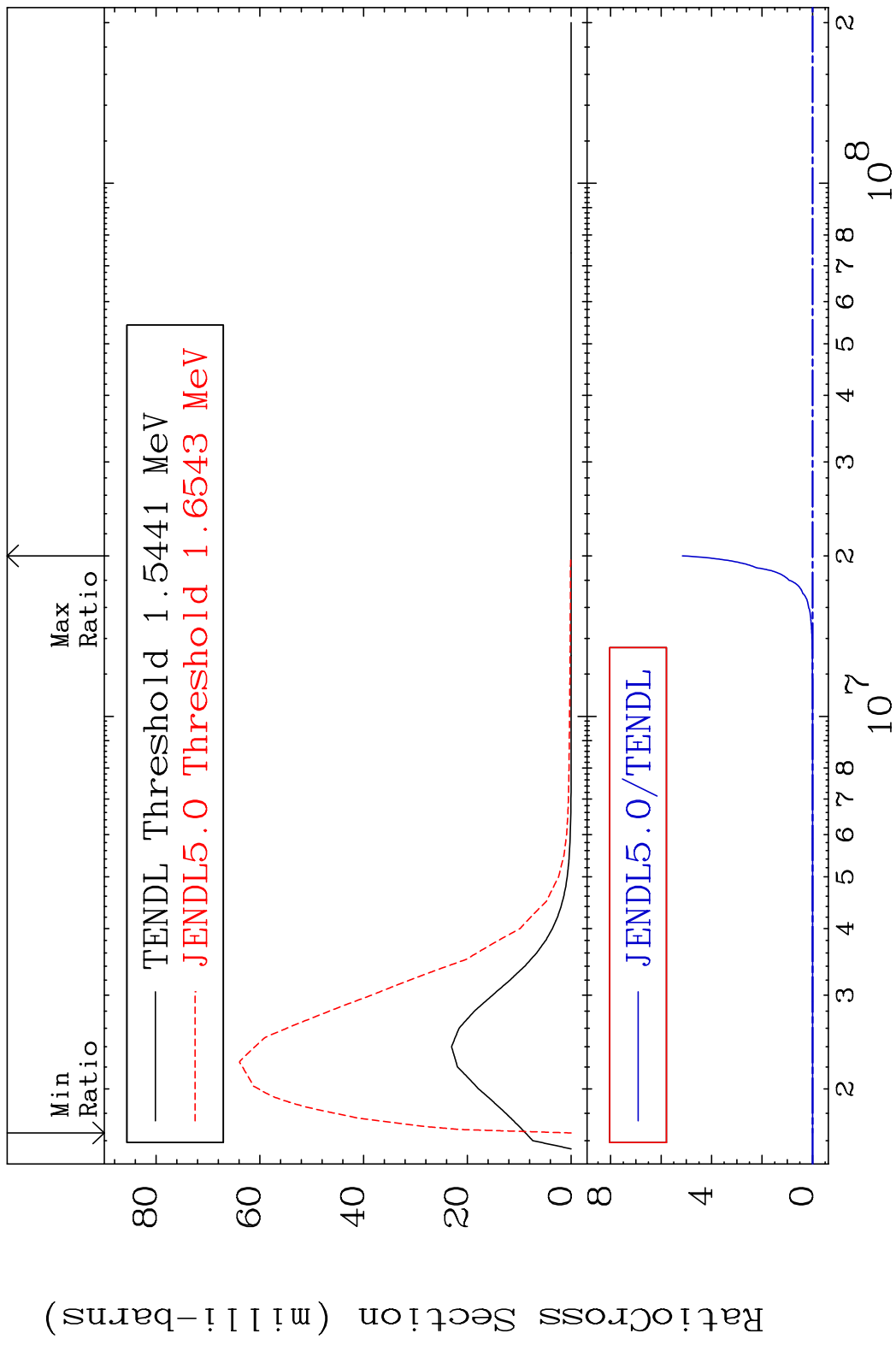
MAT 6425 MT= 65 (n,n') Level 64-Gd-152  
 Cross Section -100.0 To 557.7 %



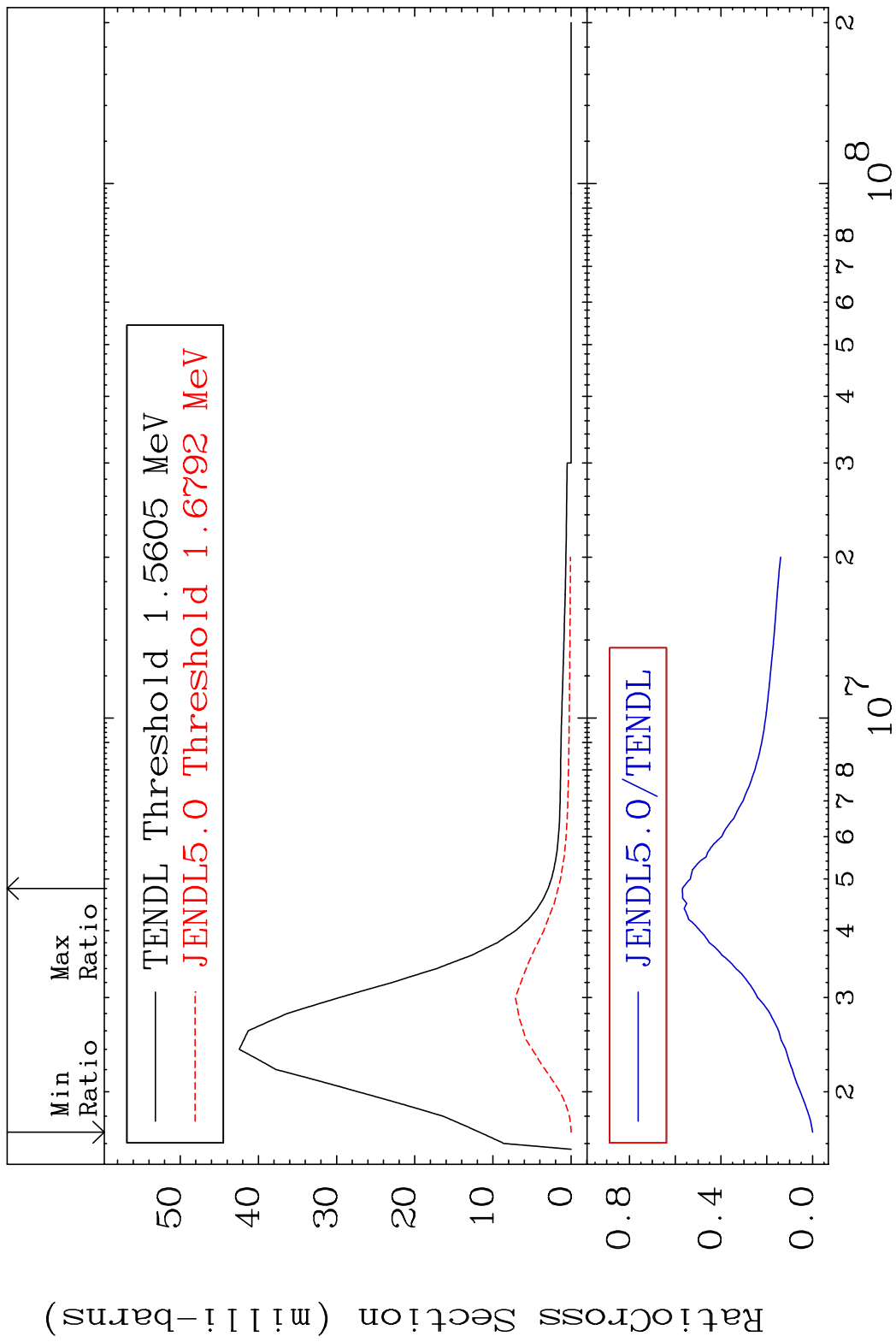
MAT 6425 MT= 66 (n,n') Level 64-Gd-152  
 Cross Section -100.0 To 24.97 %



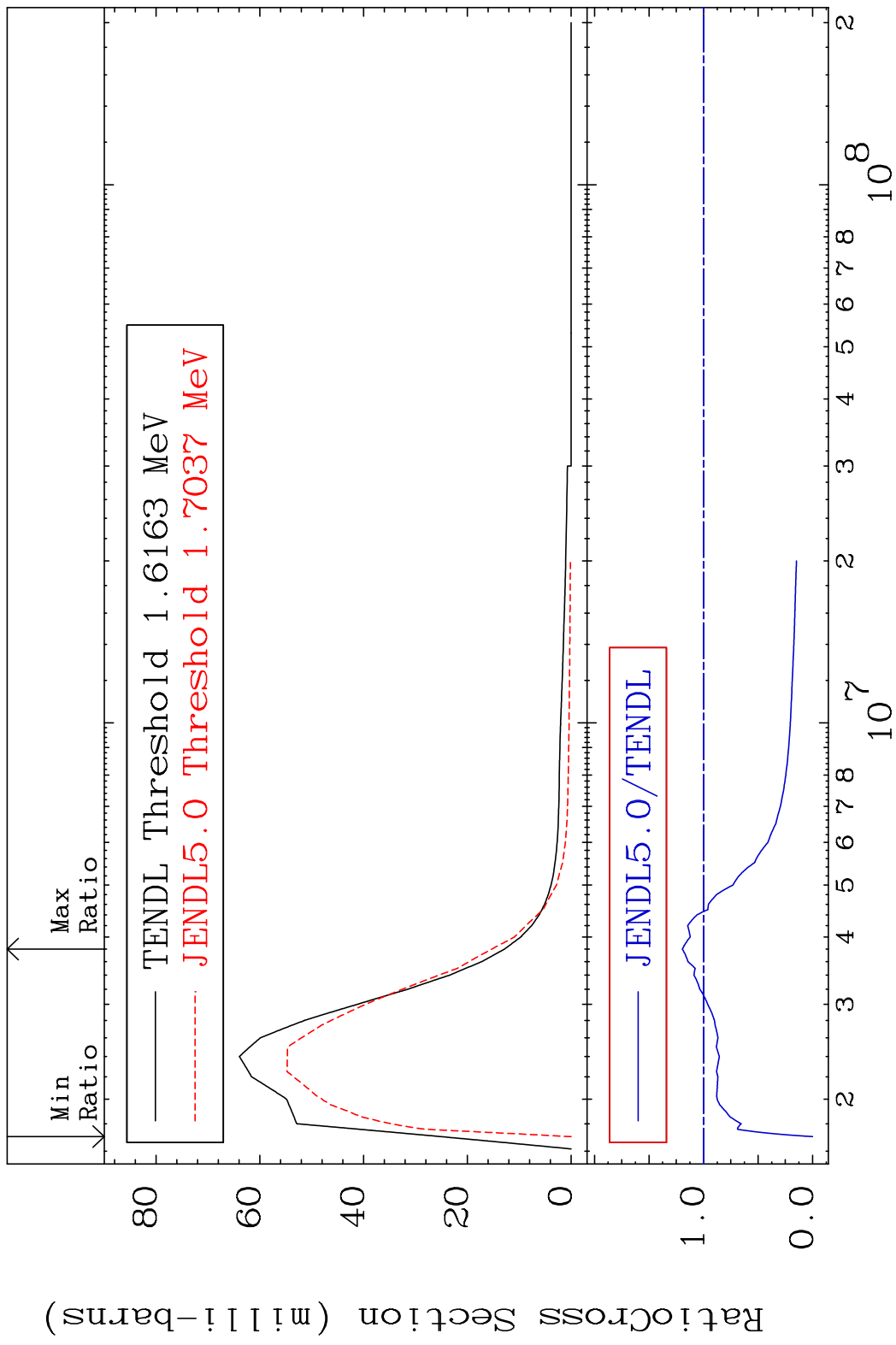
MAT 6425 MT= 67 (n, n') Level 64-Gd-152  
 Cross Section -100.0 To 9999. %



MAT 6425 MT= 68 (n,n') Level 64-Gd-152  
 Cross Section -100.0 To -43.11%

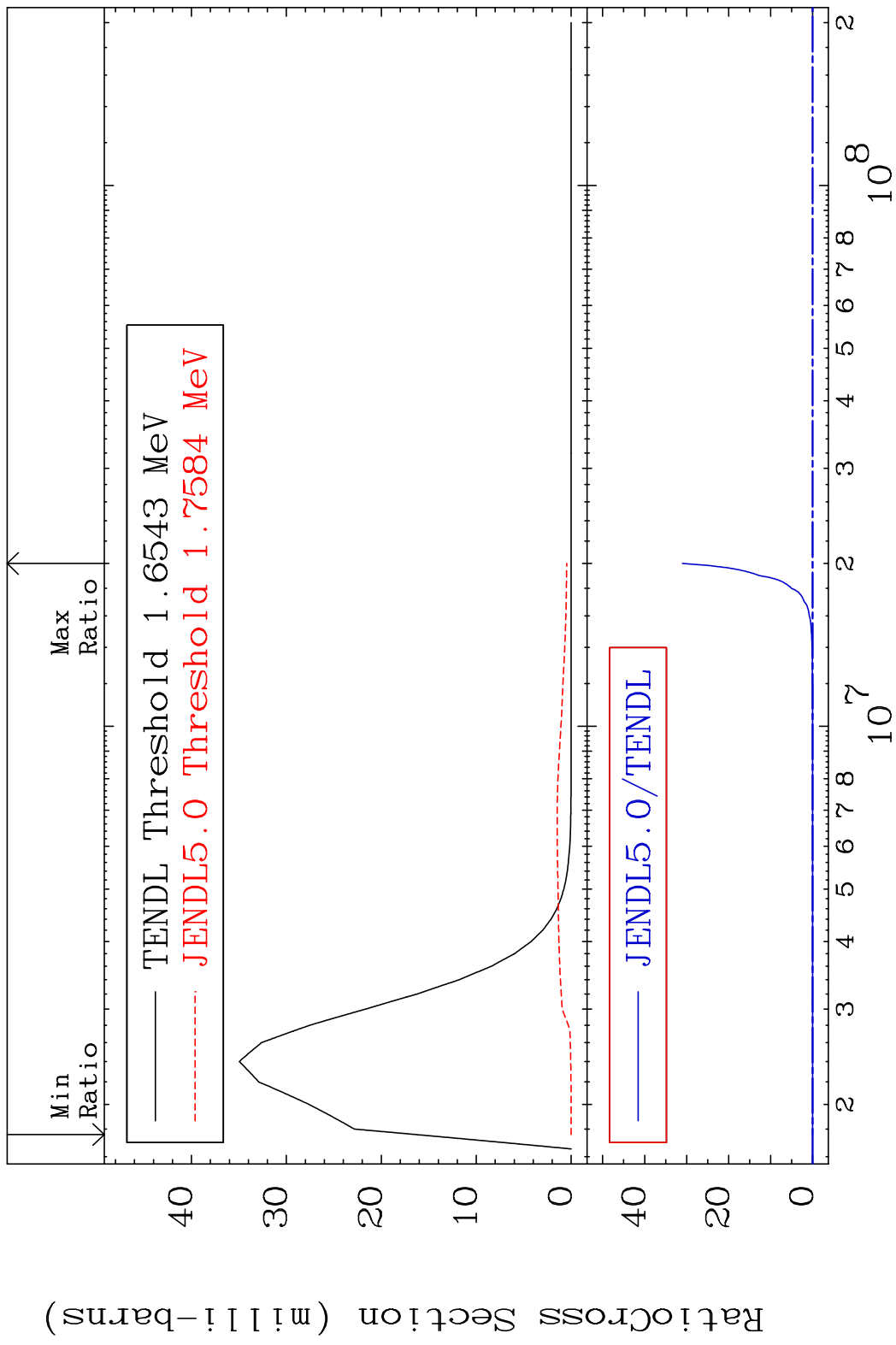


MAT 6425 MT= 69 (n,n') Level 64-Gd-152  
 Cross Section -100.0 To 19.43 %

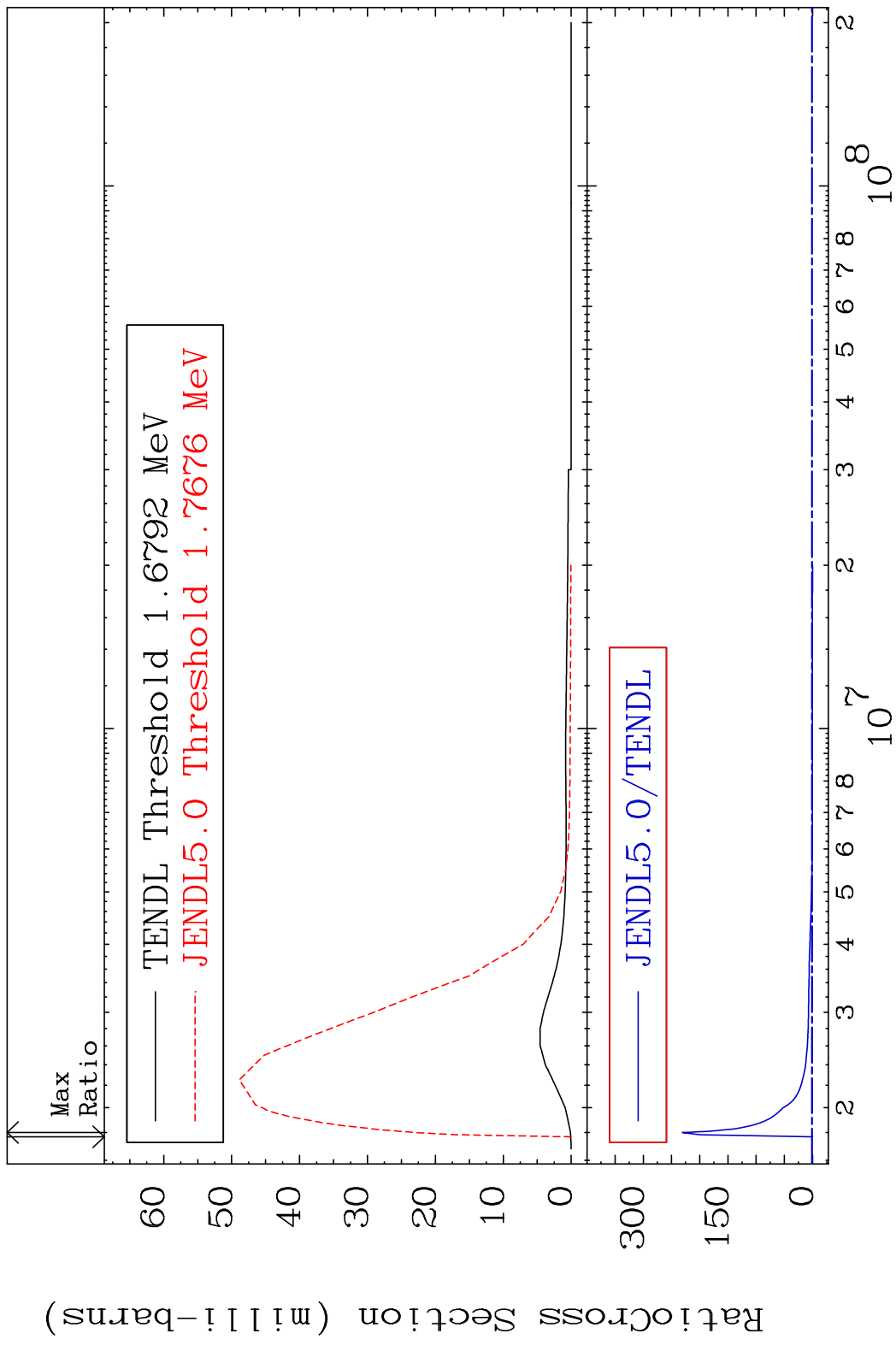




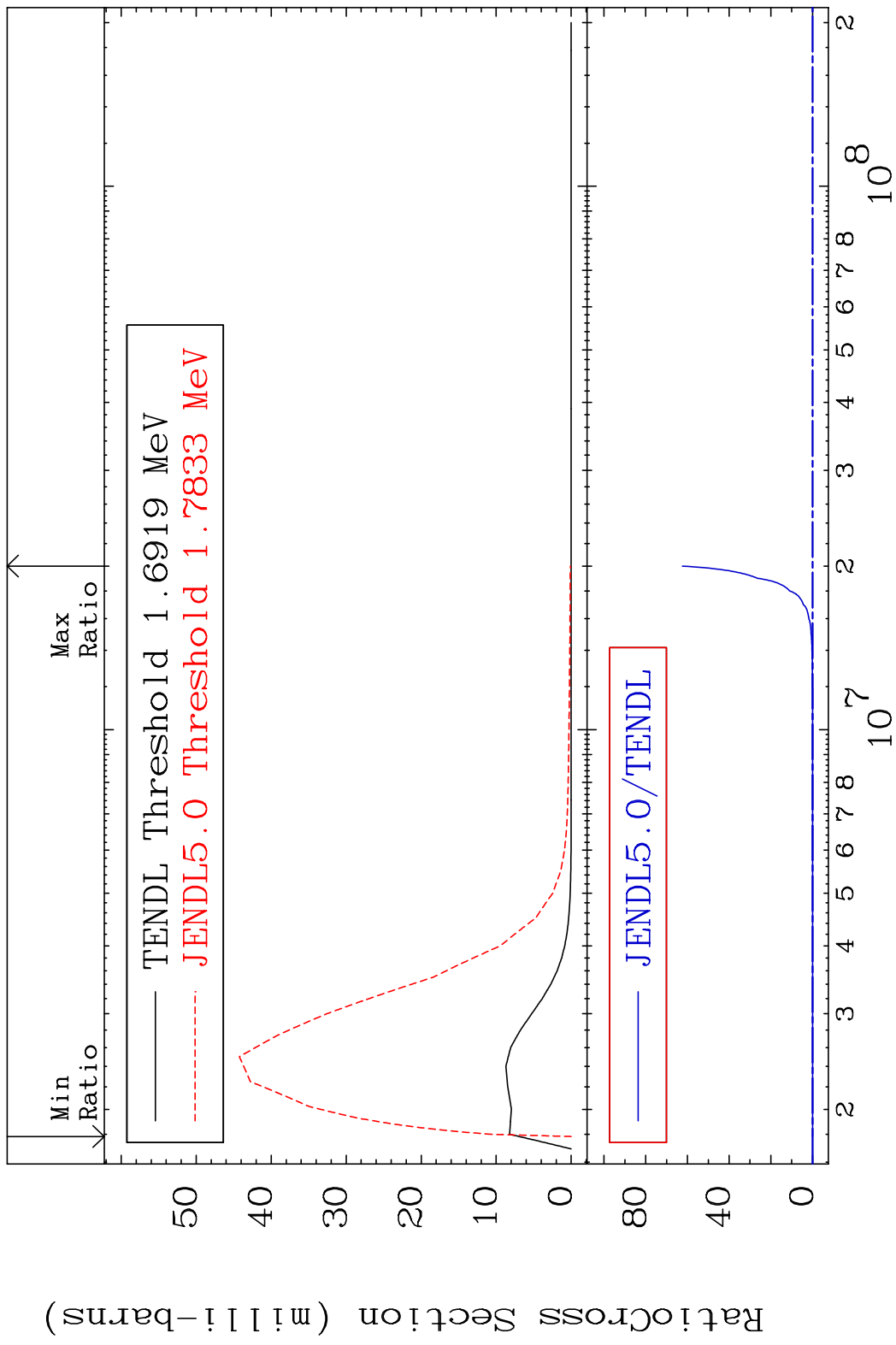
MAT 6425 MT= 70 (n, n') Level 64-Gd-152  
 Cross Section -100.0 To 9999. %



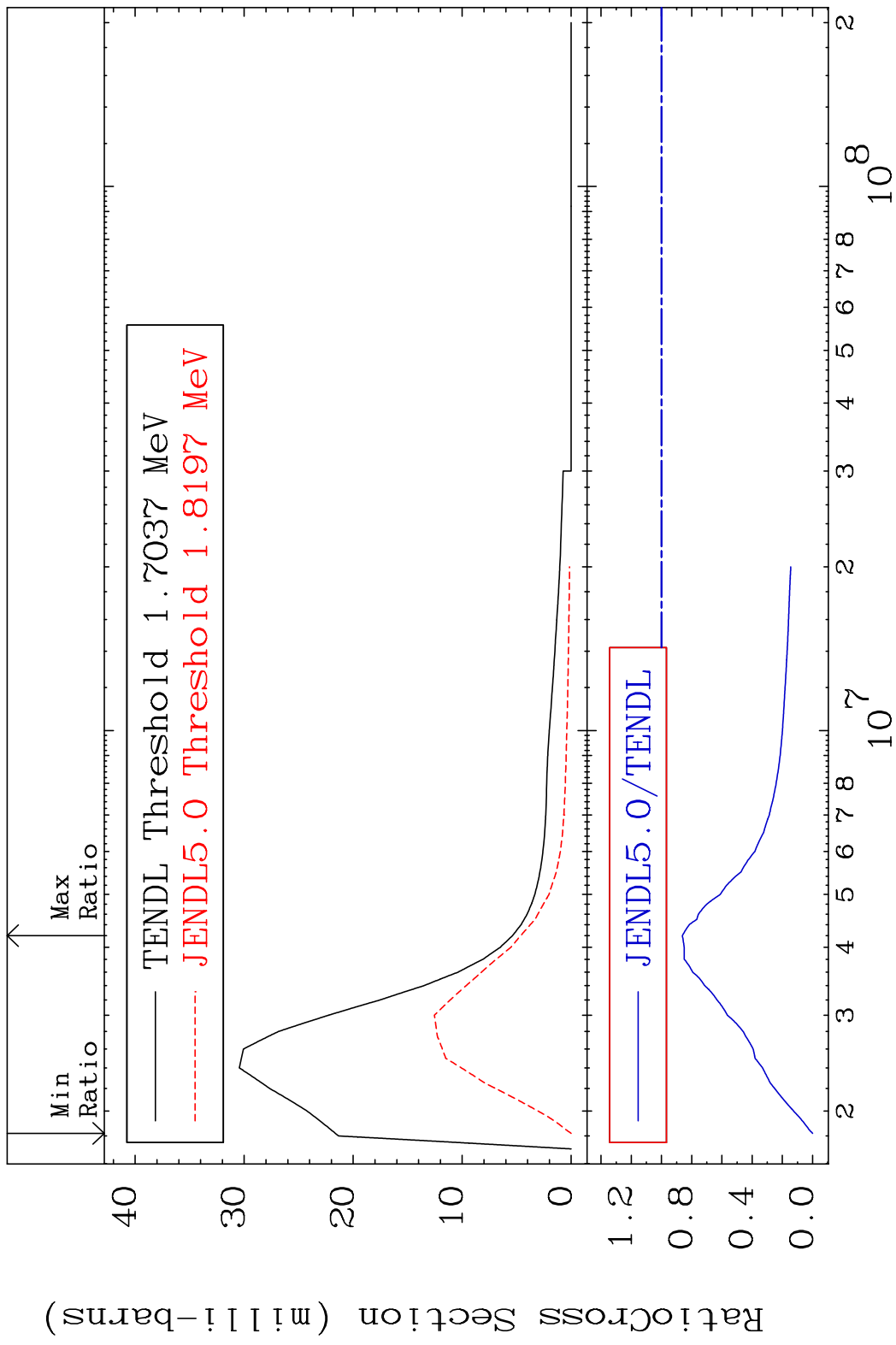
MAT 6425 MT= 71 (n,n') Level 64-Gd-152  
 Cross Section -100.0 To 9999. %



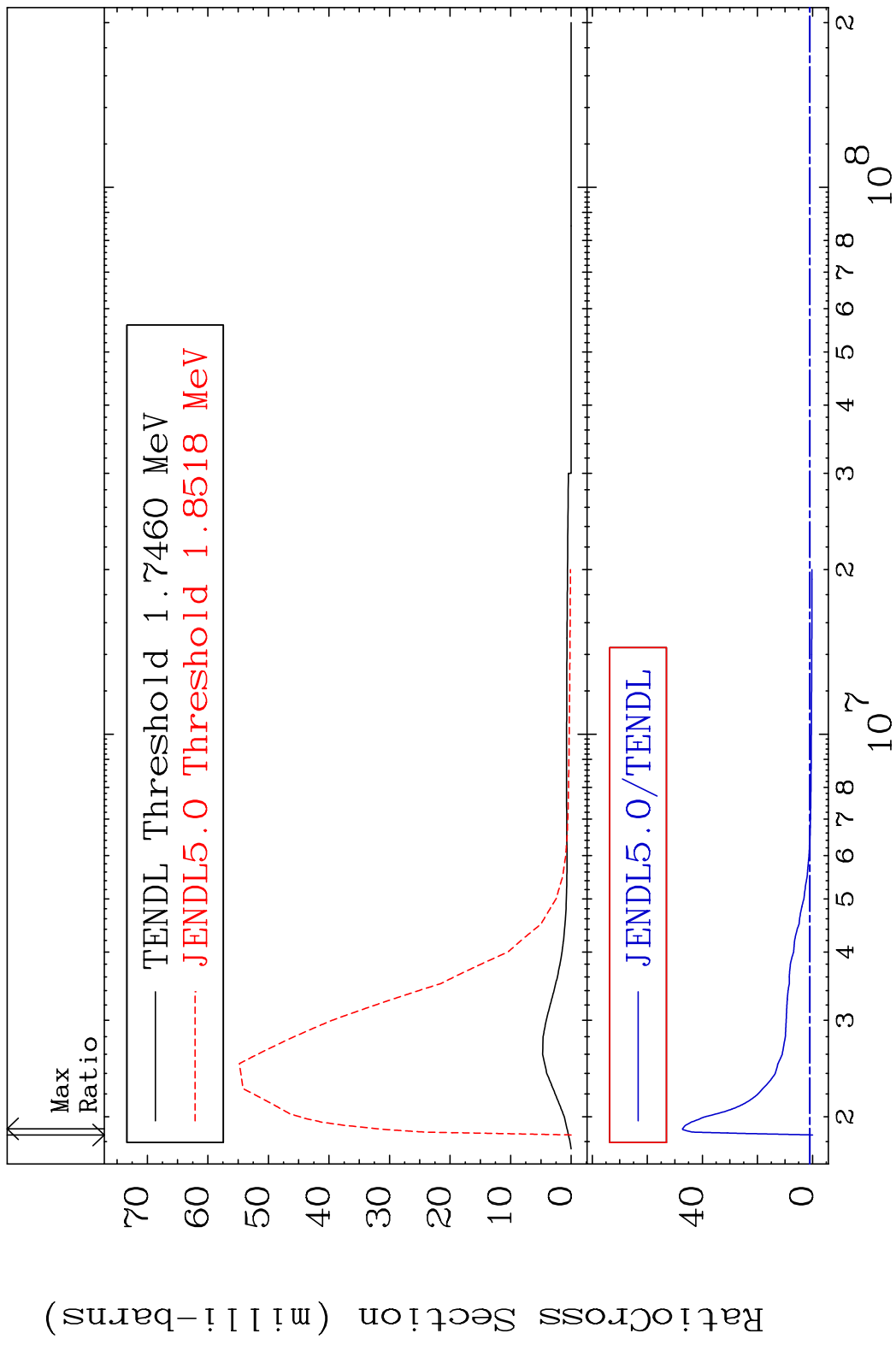
MAT 6425 MT= 72 (n, n') Level 64-Gd-152  
 Cross Section -100.0 To 9999. %



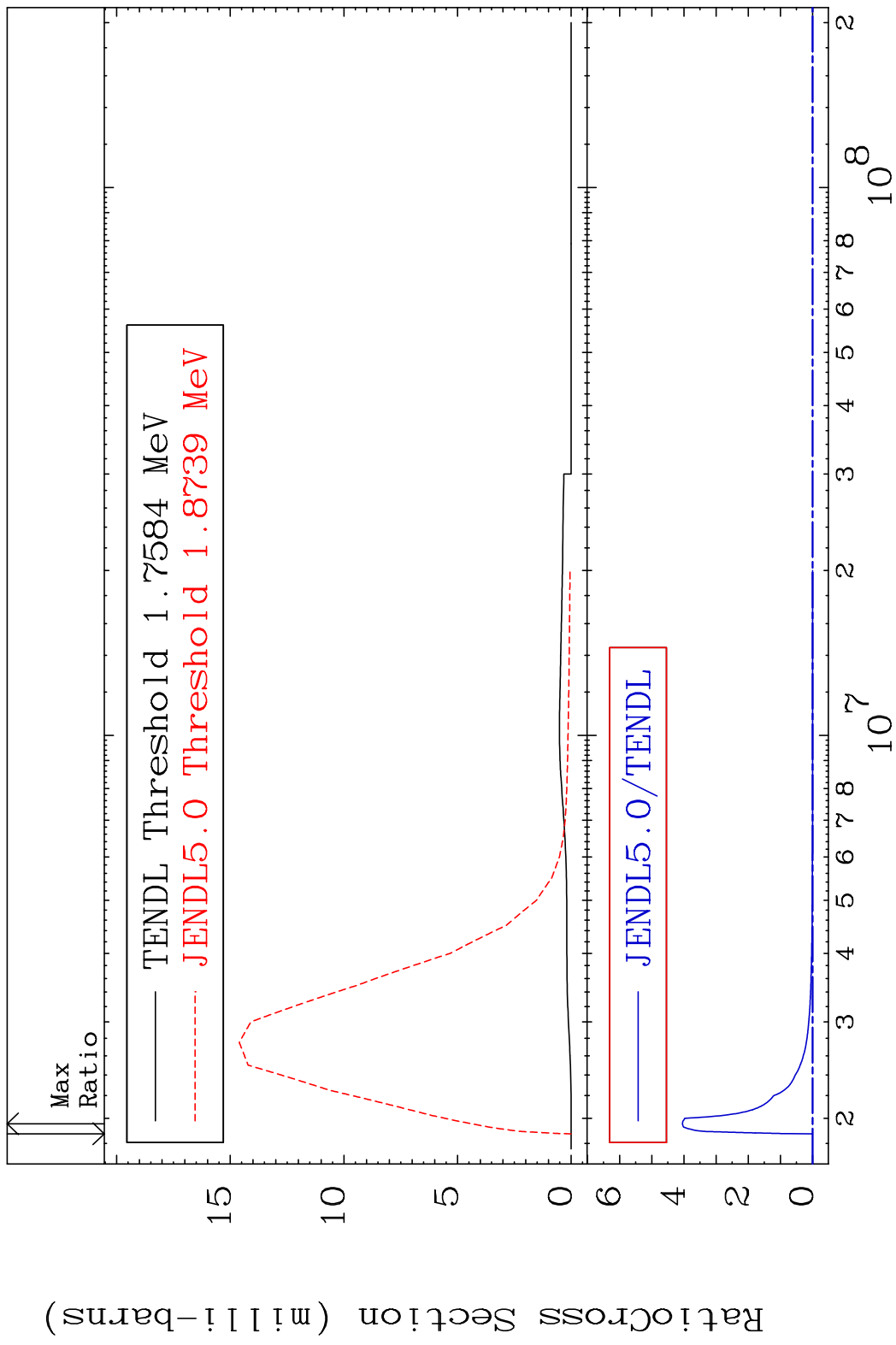
MAT 6425 MT= 73 (n, n') Level 64-Gd-152  
 Cross Section -100.0 To -13.82%



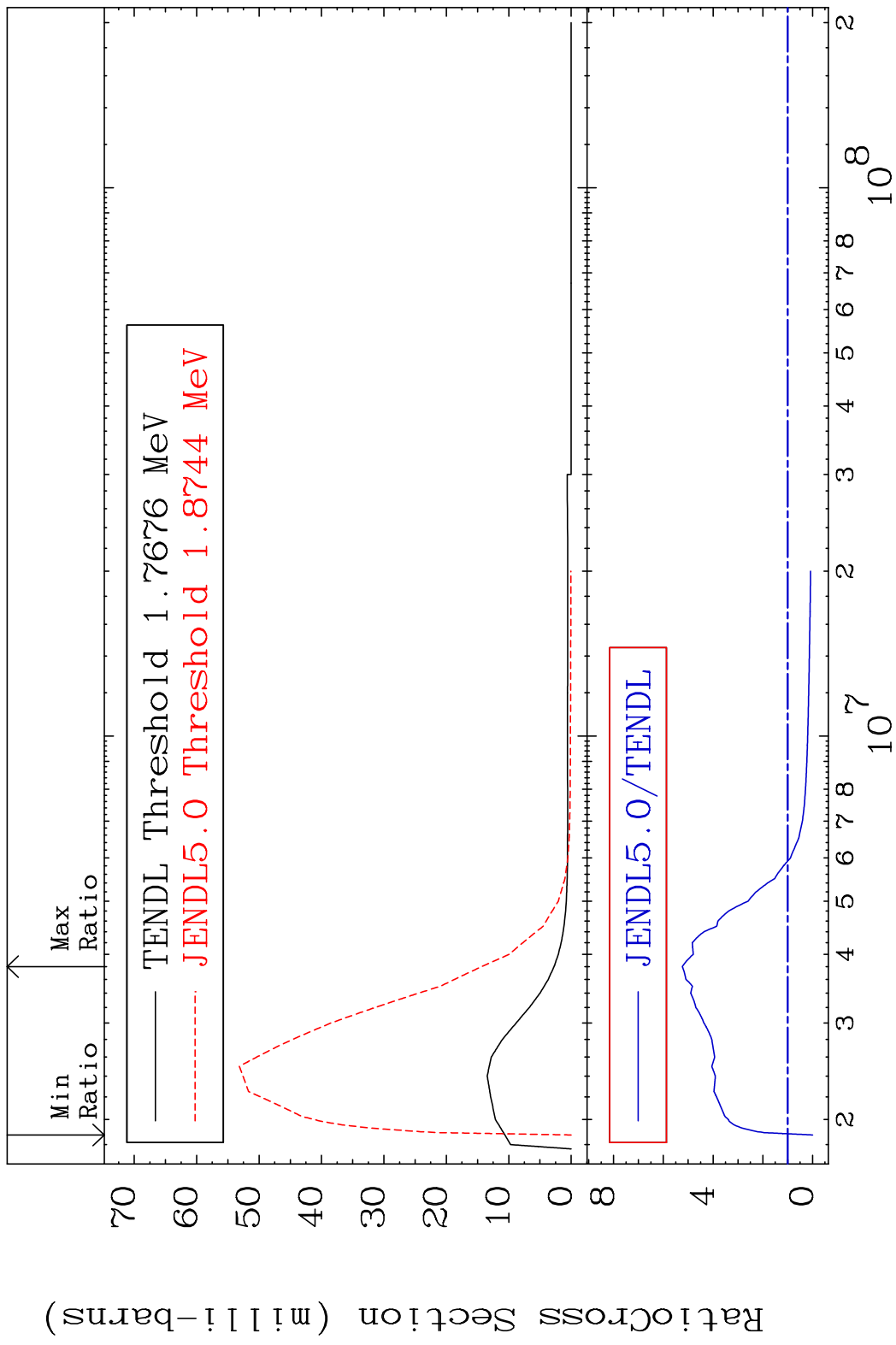
MAT 6425 MT= 74 (n,n') Level 64-Gd-152  
 Cross Section -100.0 To 4628. %



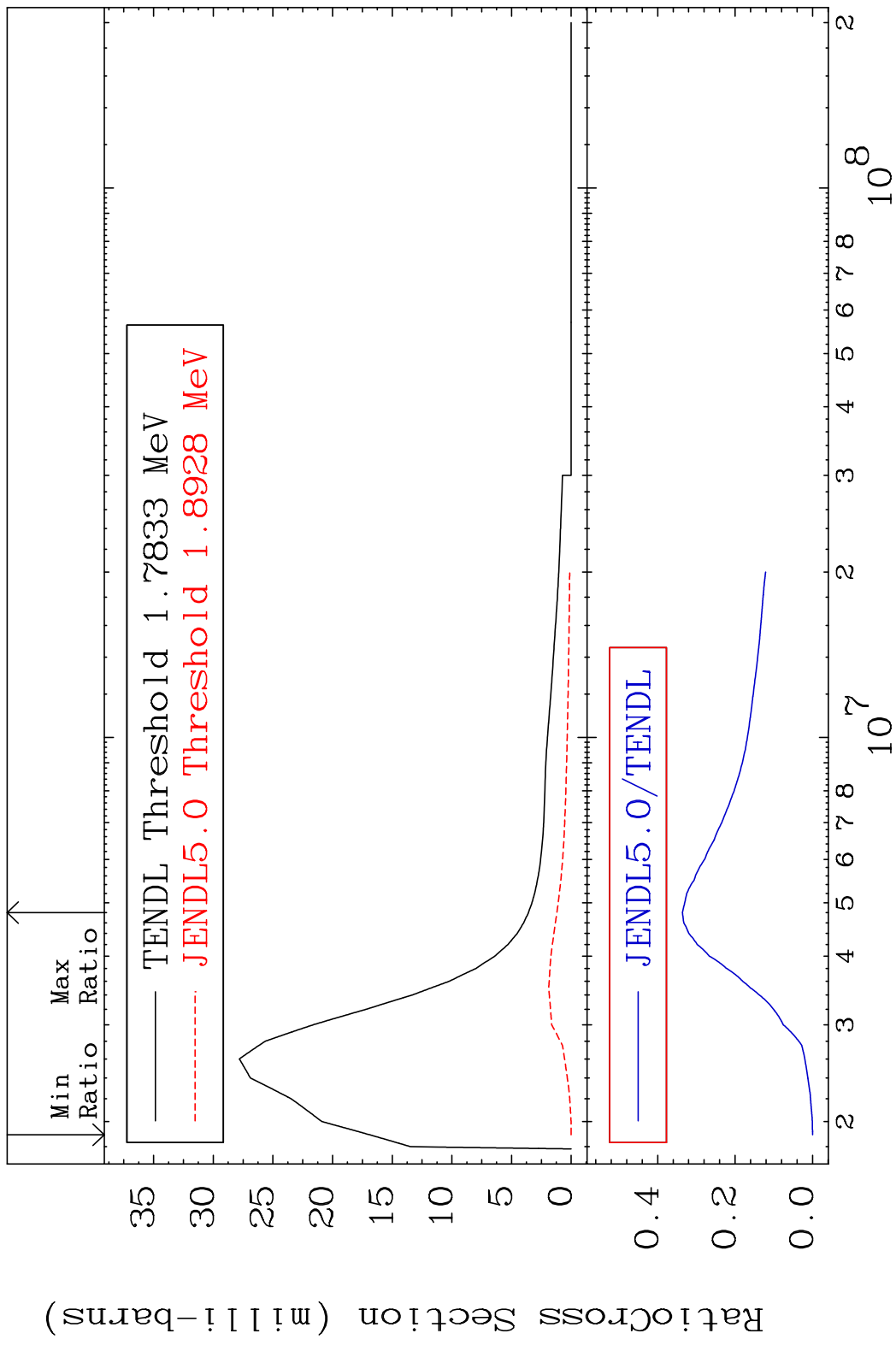
MAT 6425 MT= 75 (n,n') Level 64-Gd-152  
 Cross Section -100.0 To 9999. %



MAT 6425 MT= 76 (n, n') Level 64-Gd-152  
 Cross Section -100.0 To 423.5 %

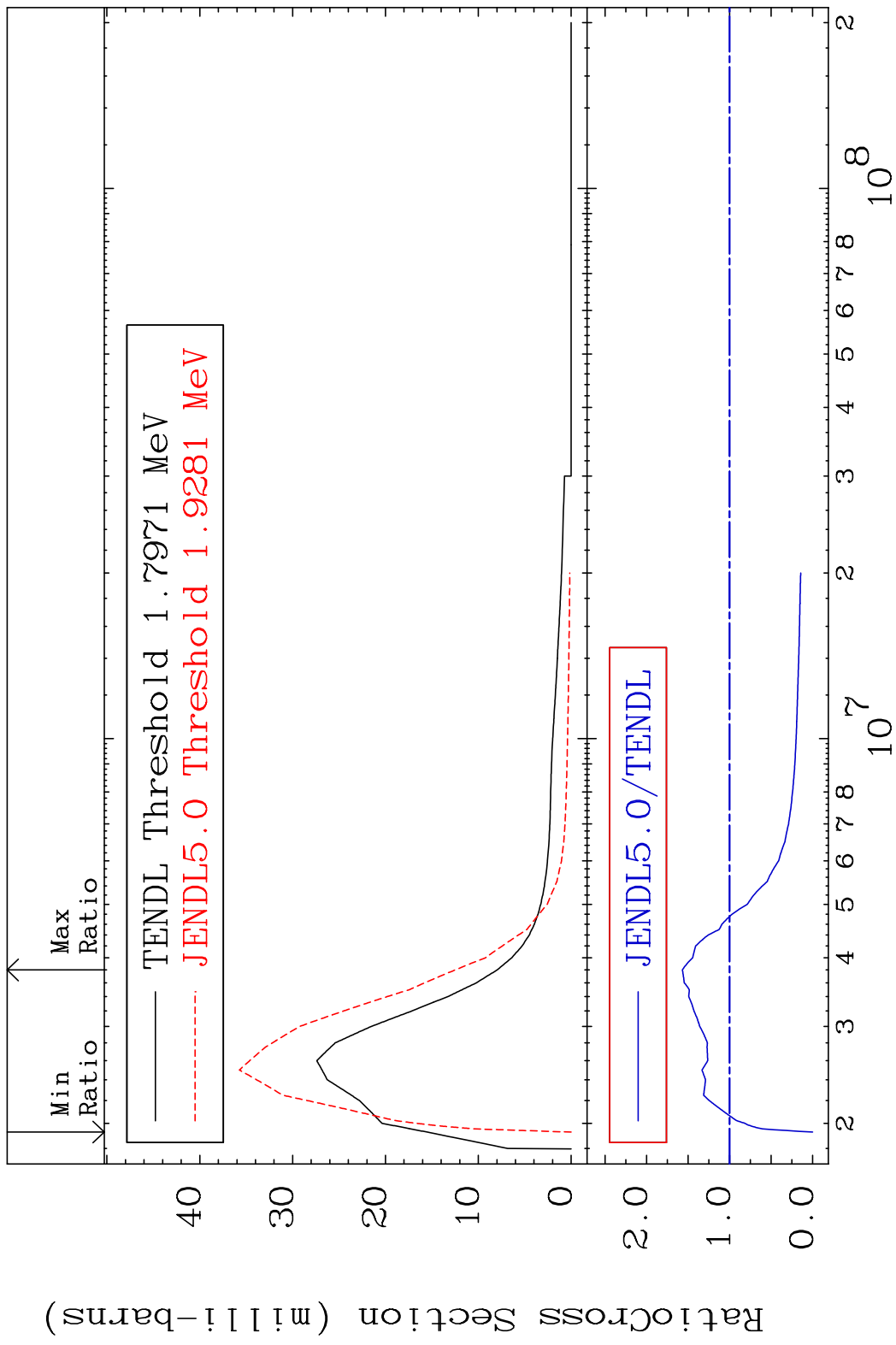


MAT 6425 MT= 77 (n,n') Level 64-Gd-152  
 Cross Section -100.0 To -66.37%



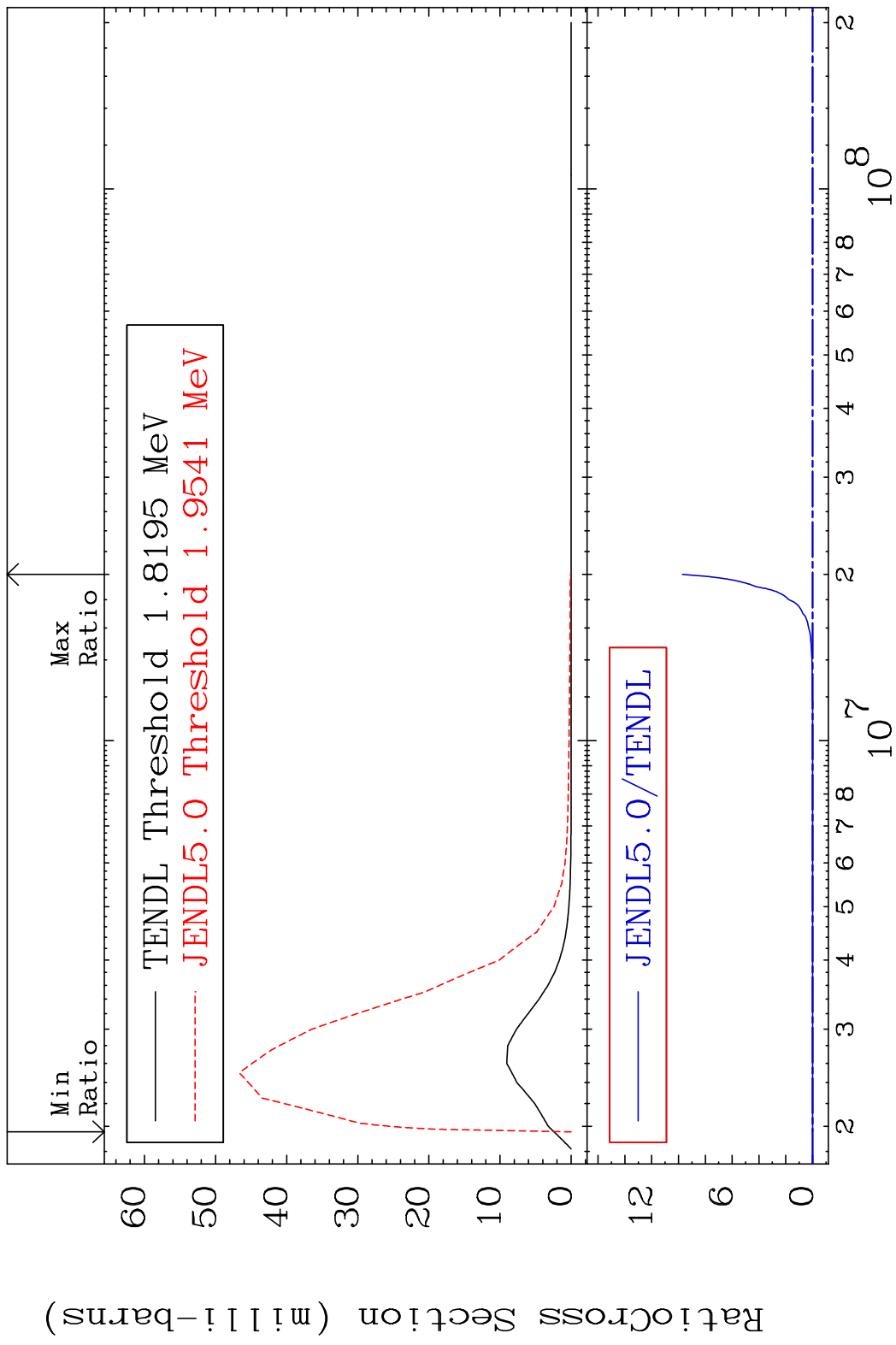


MAT 6425 MT= 78 (n,n') Level 64-Gd-152  
 Cross Section -100.0 To 56.89 %

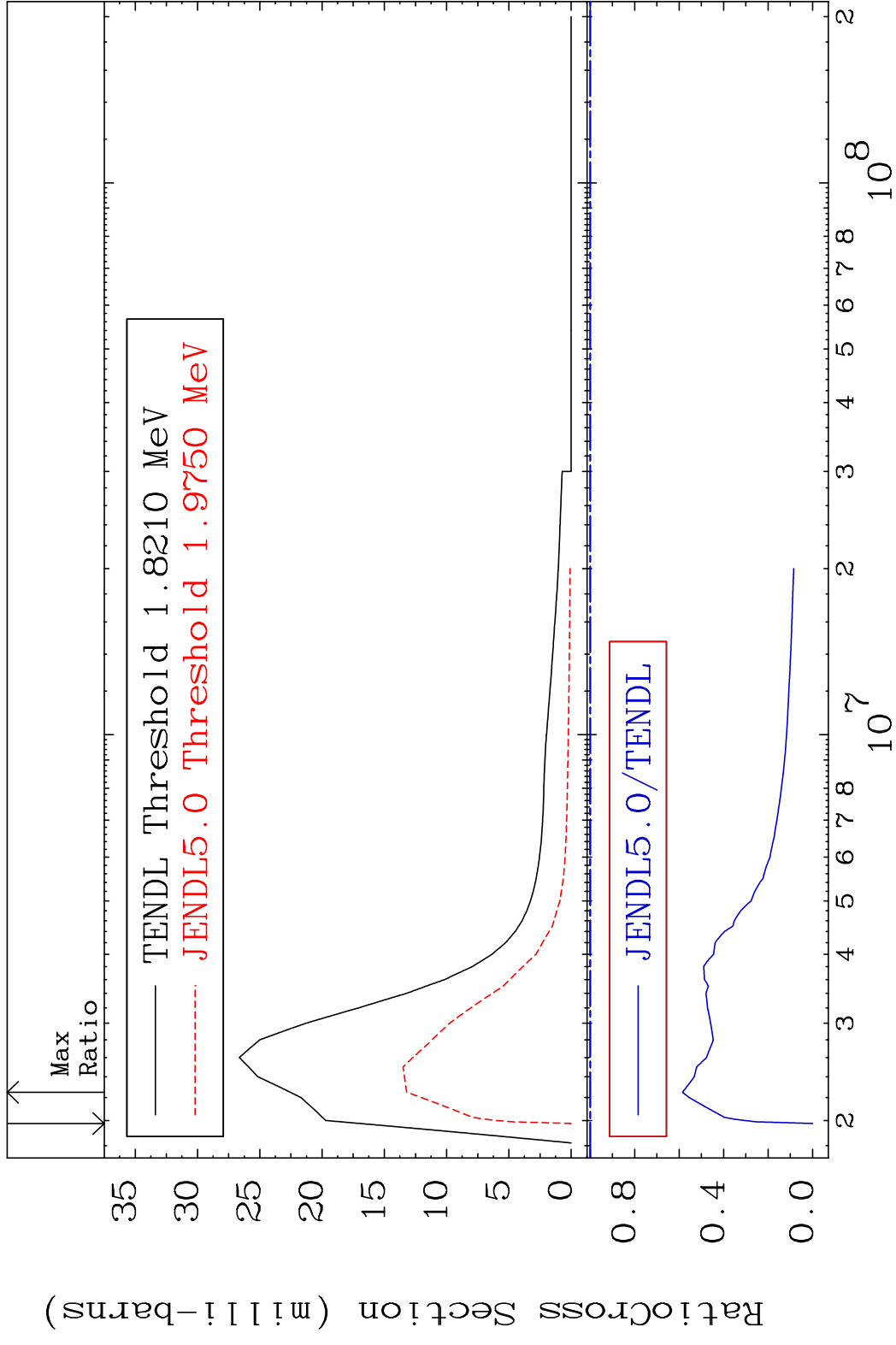


40 Incident Energy (eV) 64-Gd-152

MAT 6425 MT= 79 (n, n') Level 64-Gd-152  
 Cross Section -100.0 To 9999. %



MAT 6425 MT= 80 (n,n') Level 64-Gd-152  
 Cross Section -100.0 To -41.45%

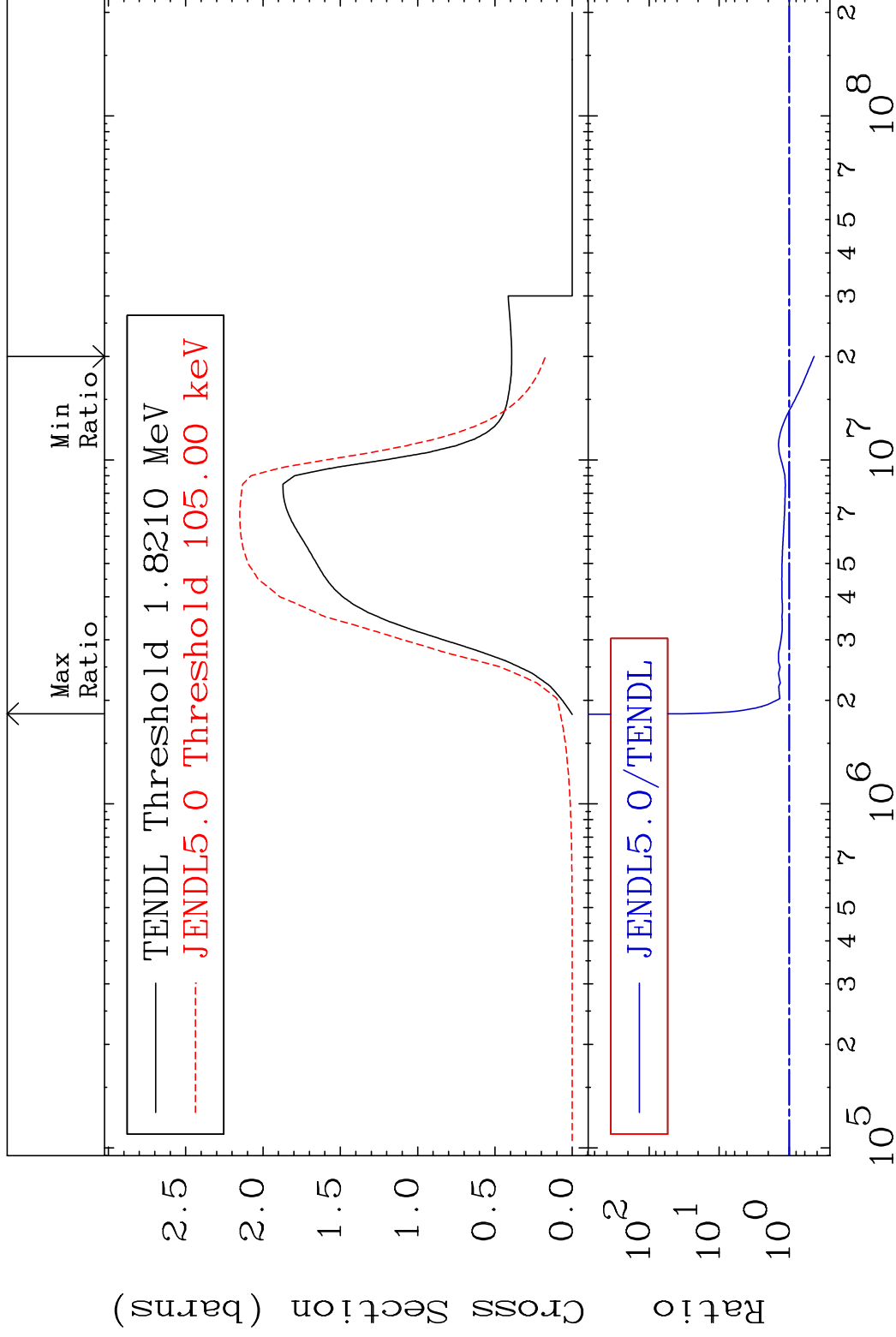


MAT 6425

(n, n') Continuum

64-Gd-152

Cross Section -55.81 To 3112. %



43

Incident Energy (eV)

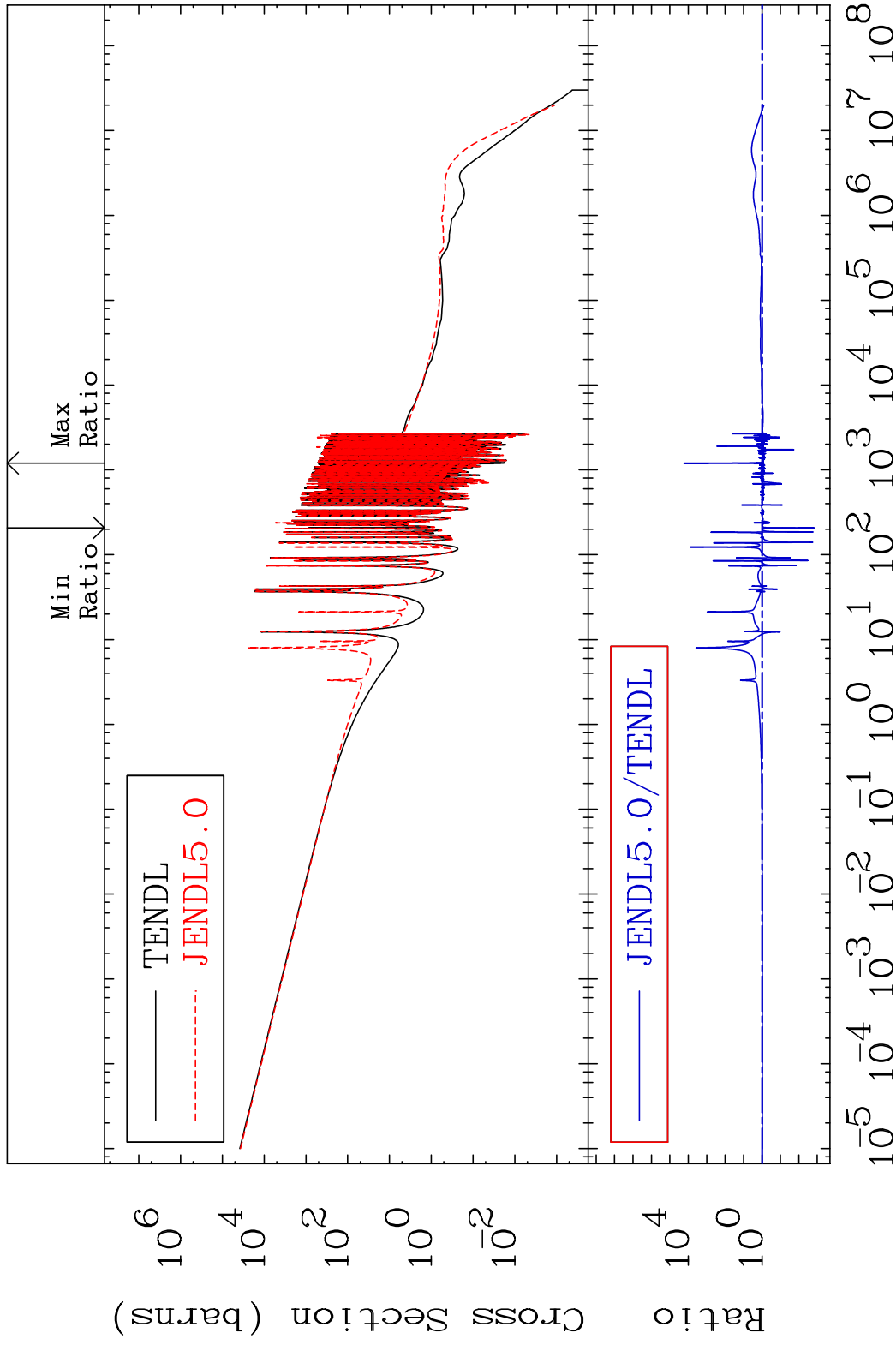
64-Gd-152

MAT 6425

(n,  $\gamma$ )

64-Gd-152

Cross Section -99.85 To 9999. %



44

Incident Energy (eV)

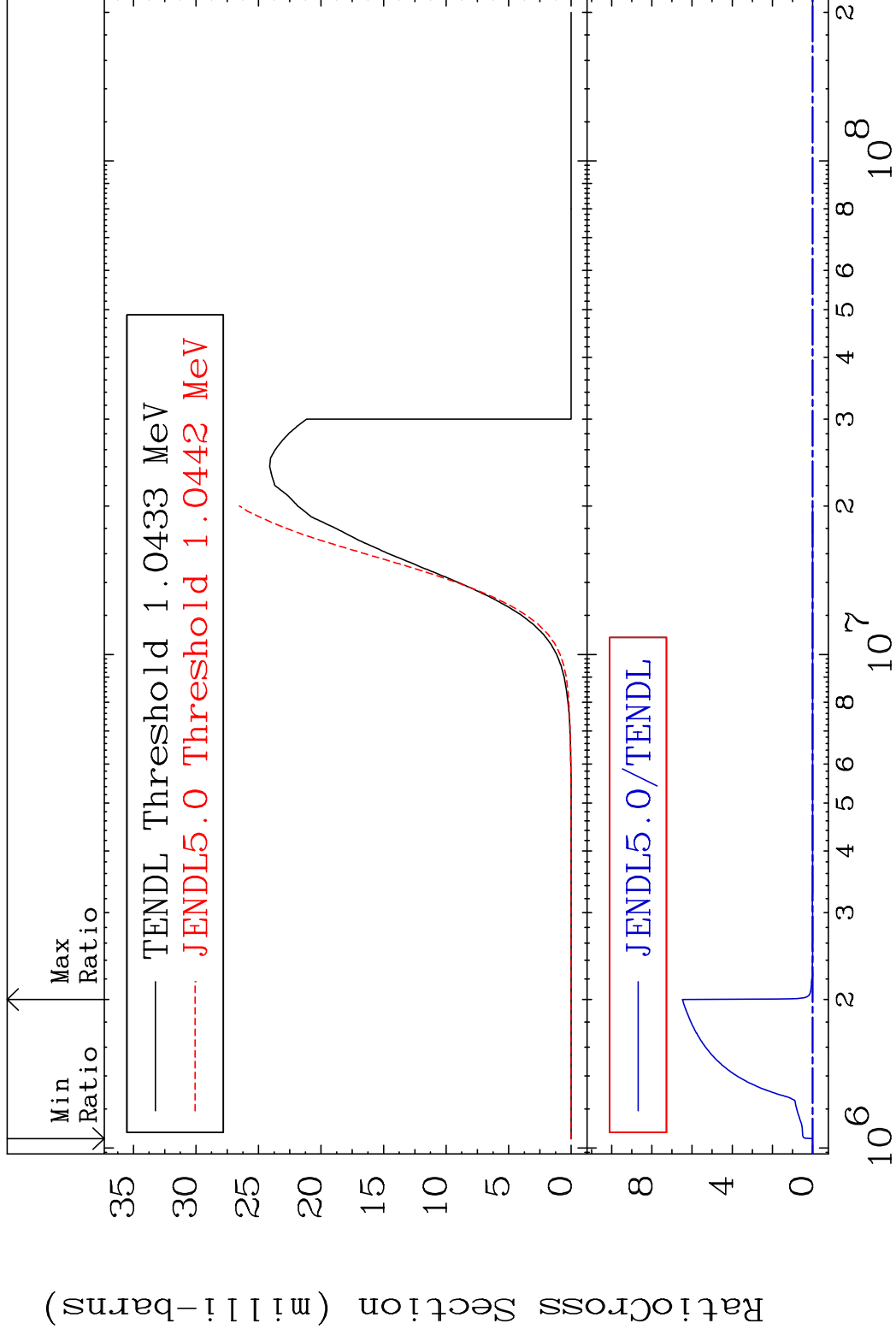
64-Gd-152

MAT 6425

(n,p)

64-Gd-152

Cross Section -100.0 To 9999. %



45

Incident Energy (eV)

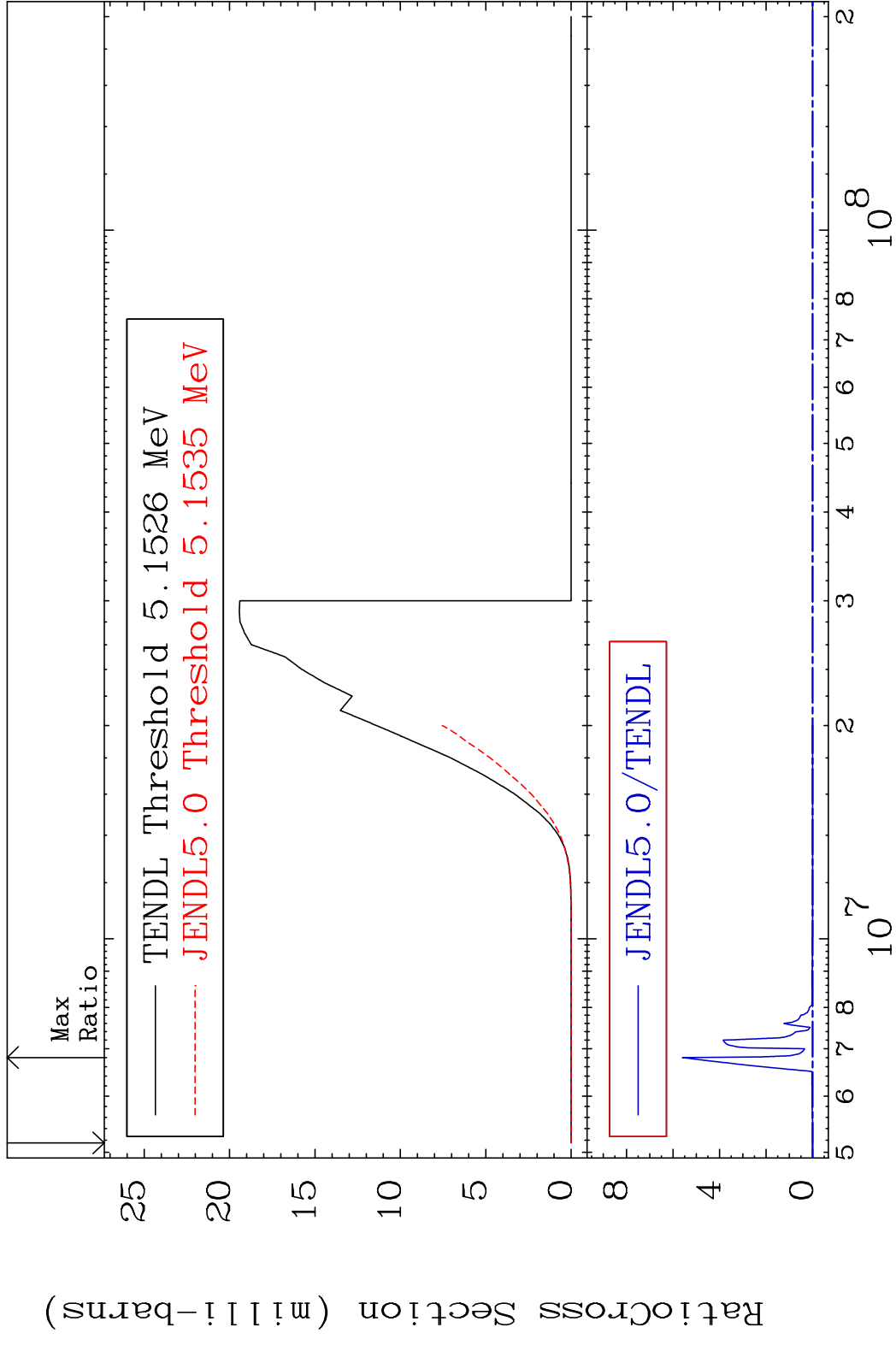
64-Gd-152

MAT 6425

(n,d)

64-Gd-152

Cross Section -100.0 To 9999. %



46

Incident Energy (eV)

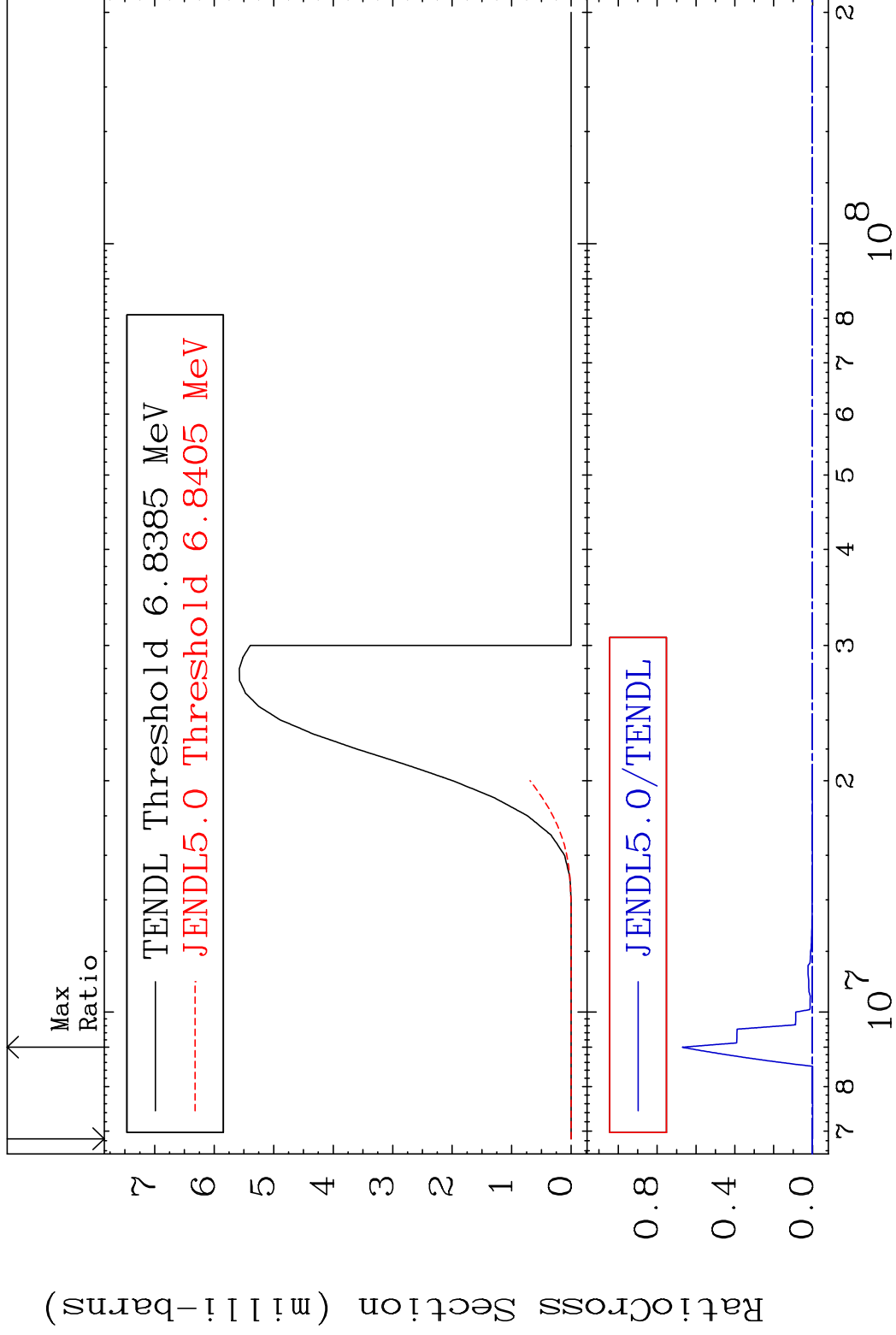
64-Gd-152

MAT 6425

(n, t)

64-Gd-152

Cross Section -100.0 To 9999. %



47

Incident Energy (eV)

64-Gd-152

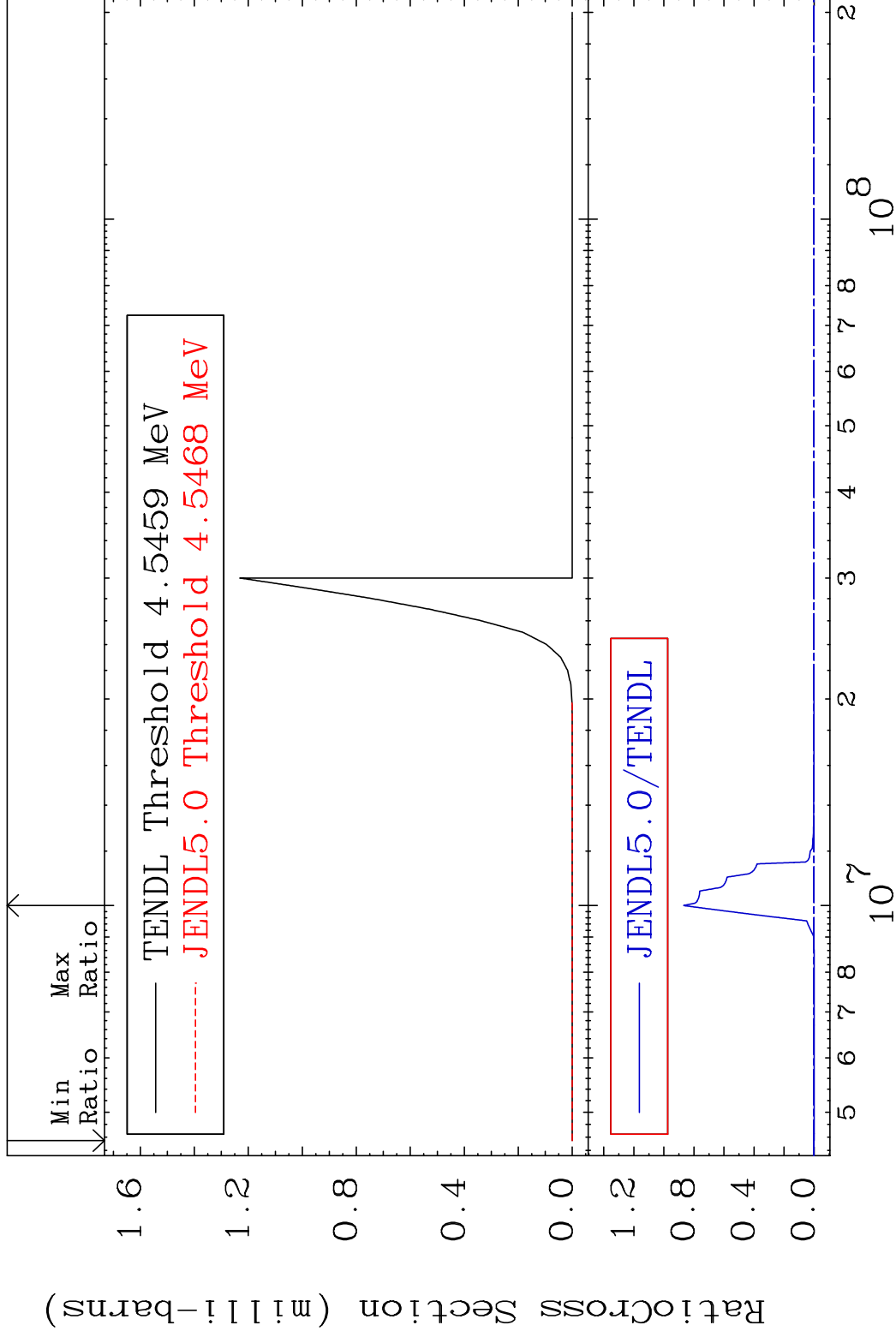


MAT 6425

(n, He-3)

64-Gd-152

Cross Section -100.0 To 9999. %



48

Incident Energy (eV)

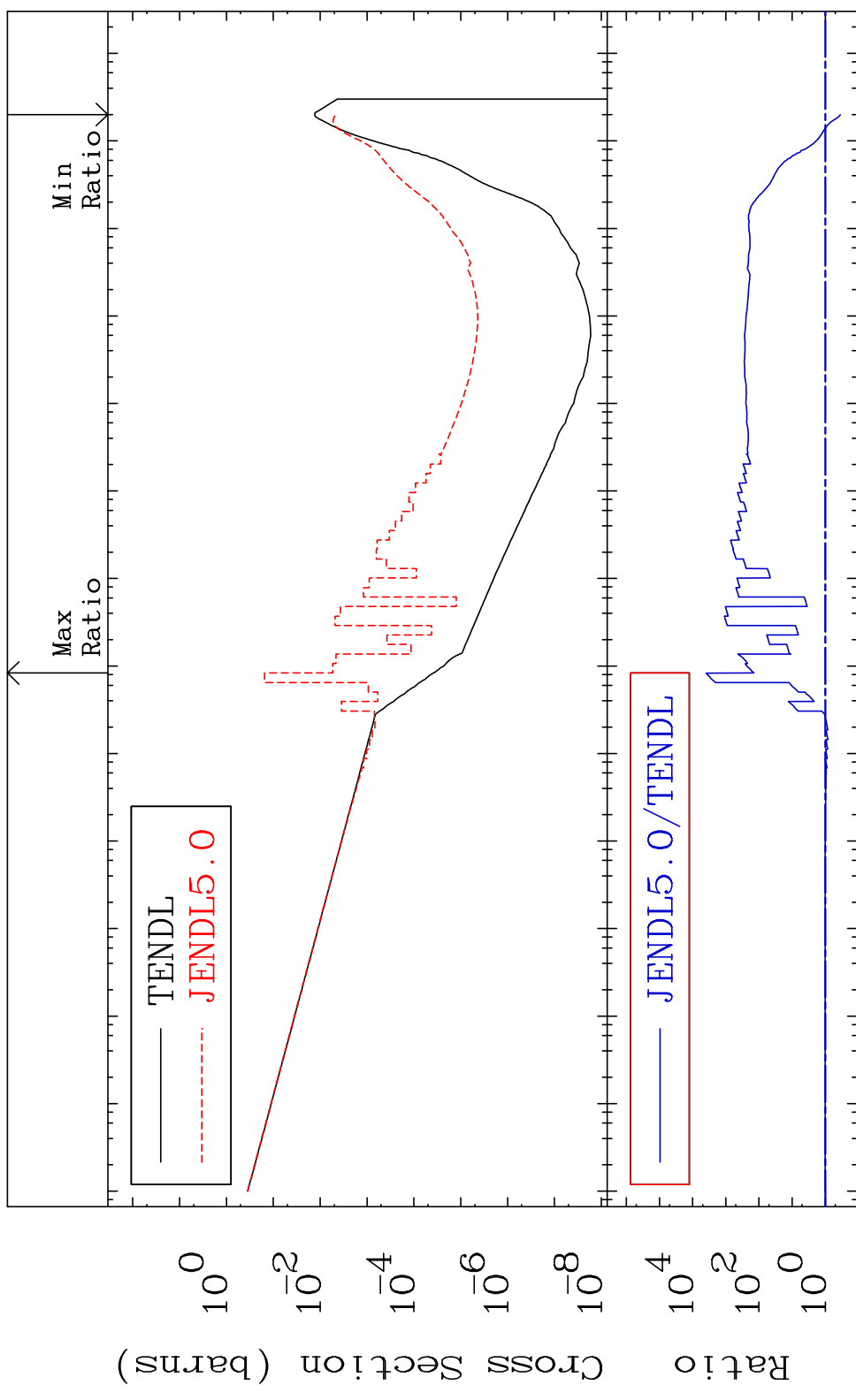
64-Gd-152

MAT 6425

64-Gd-152

(n,  $\alpha$ )

Cross Section -65.08 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>

49

Incident Energy (eV)

64-Gd-152

MAT 6425

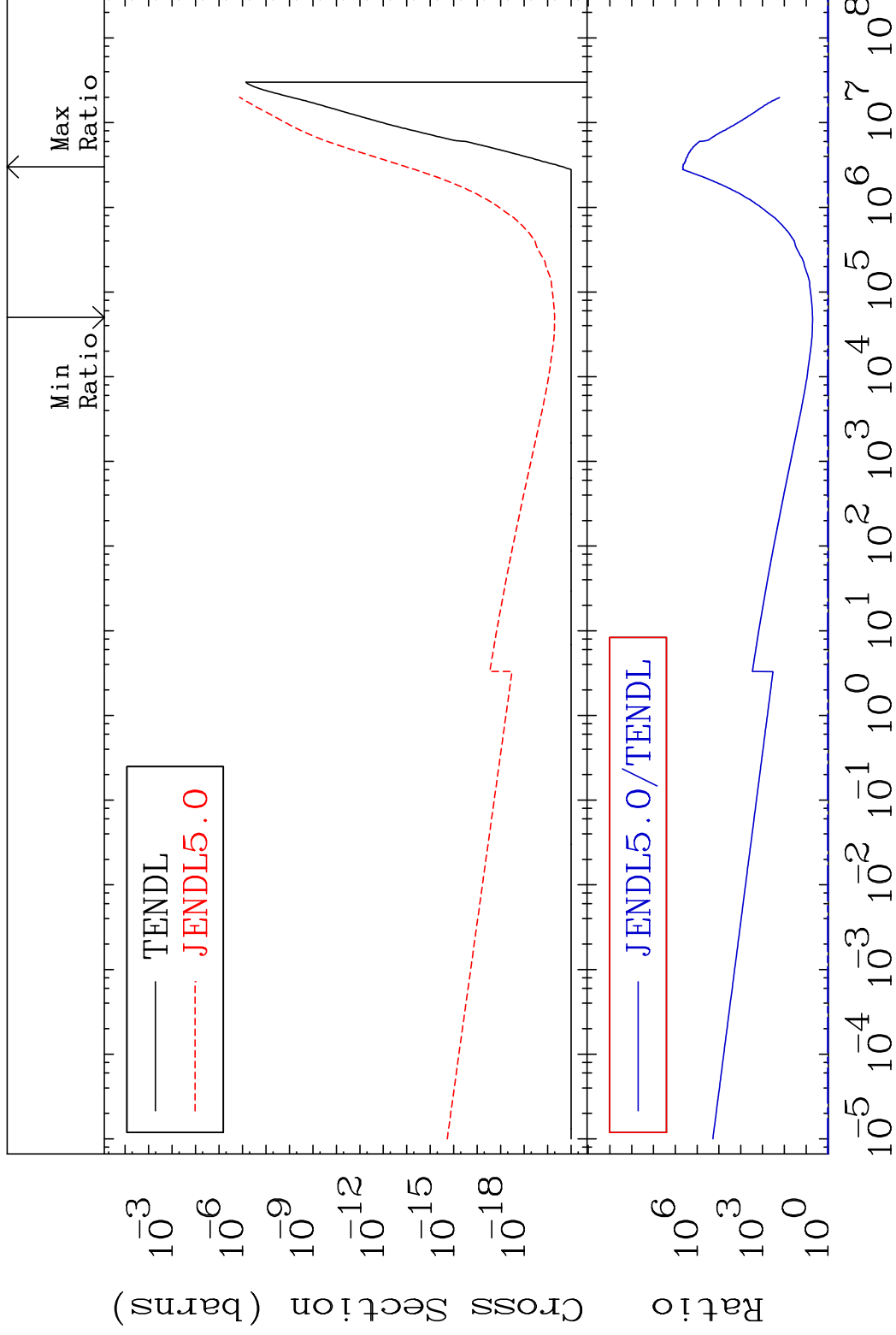
(n,2α)

64-Gd-152

Cross Section

408.2

To 9999. %



50

Incident Energy (eV)

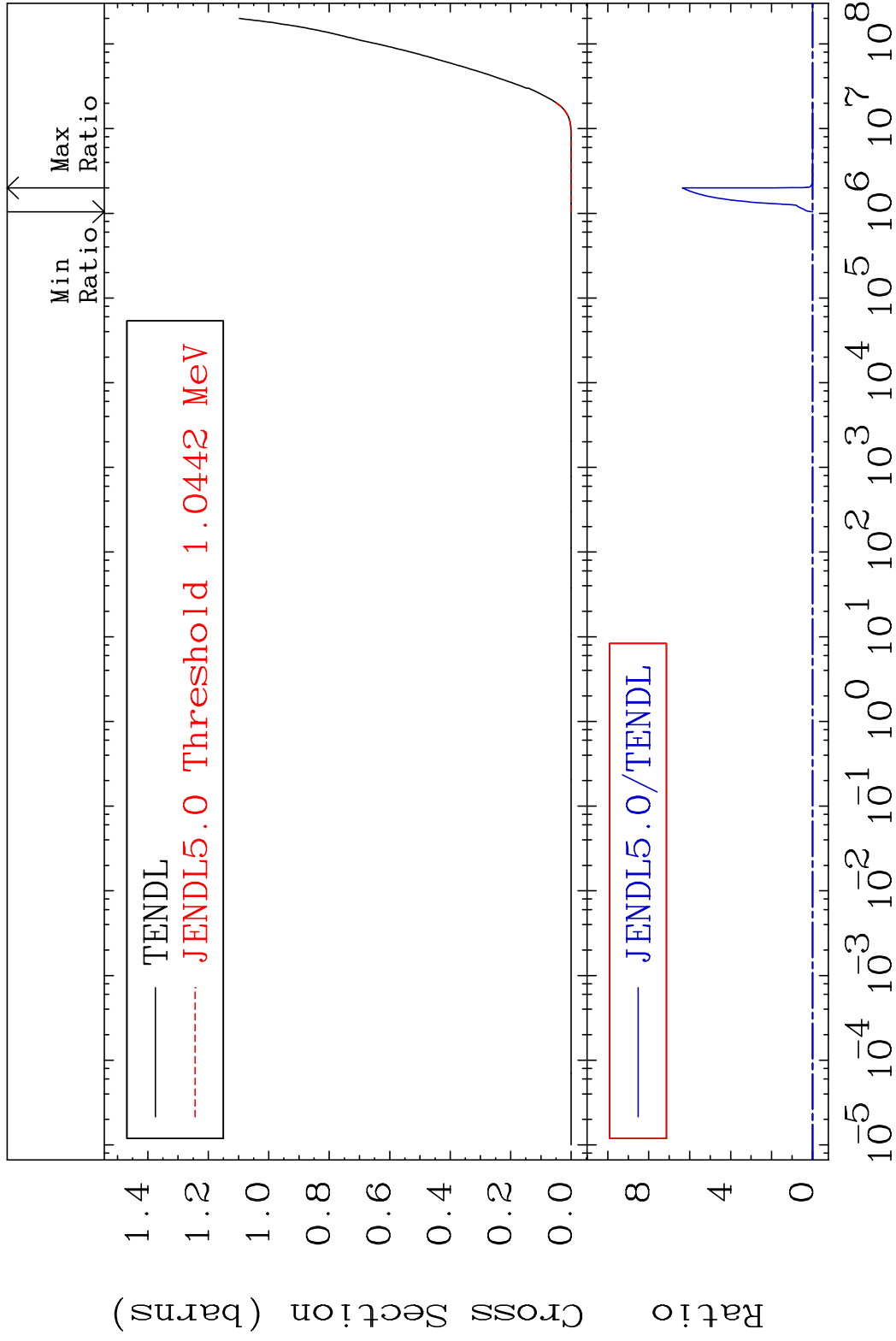
64-Gd-152

MAT 6425

Hydrogen Production

64-Gd-152

Cross Section -100.0 To 9999. %

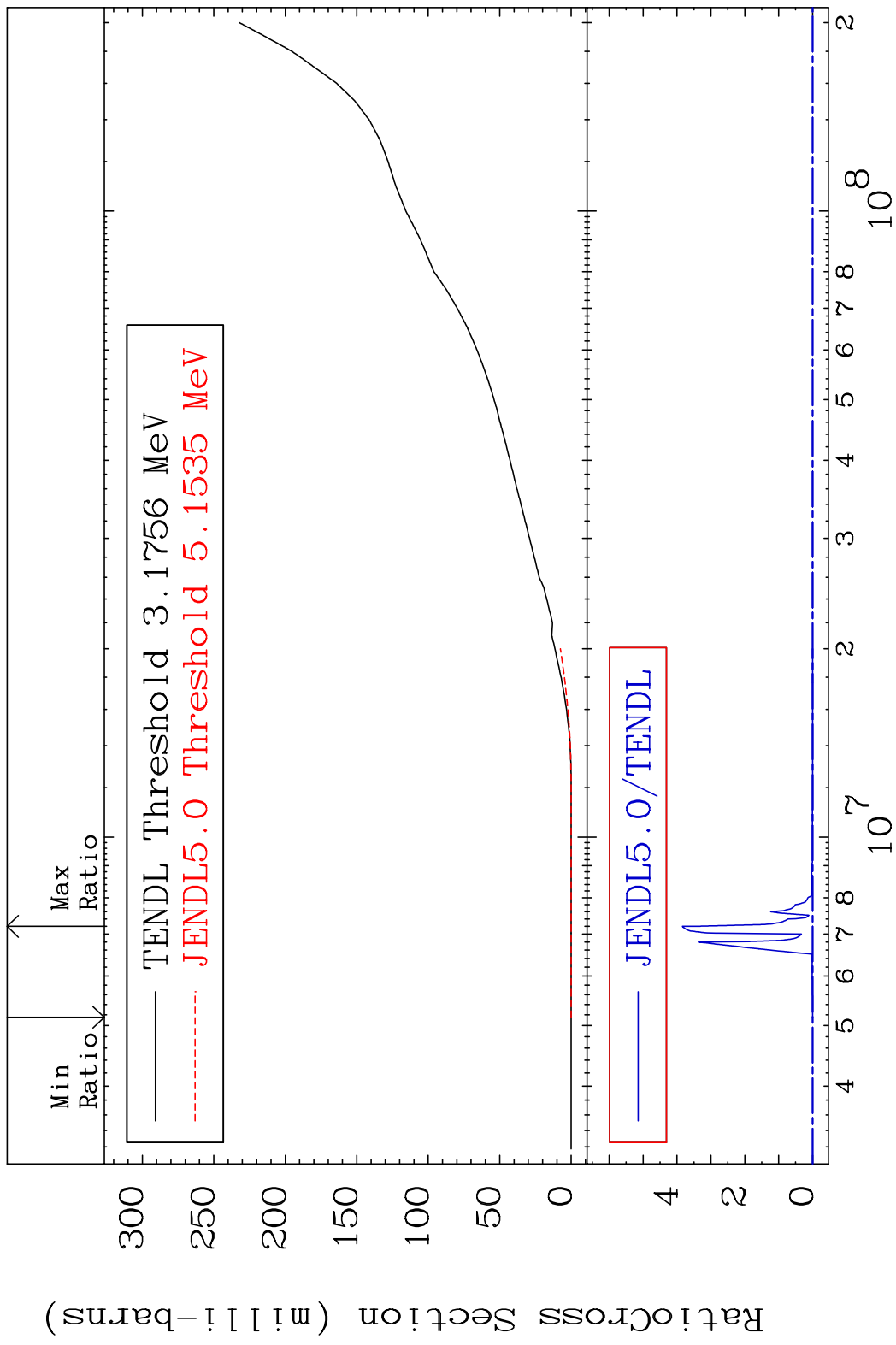


51

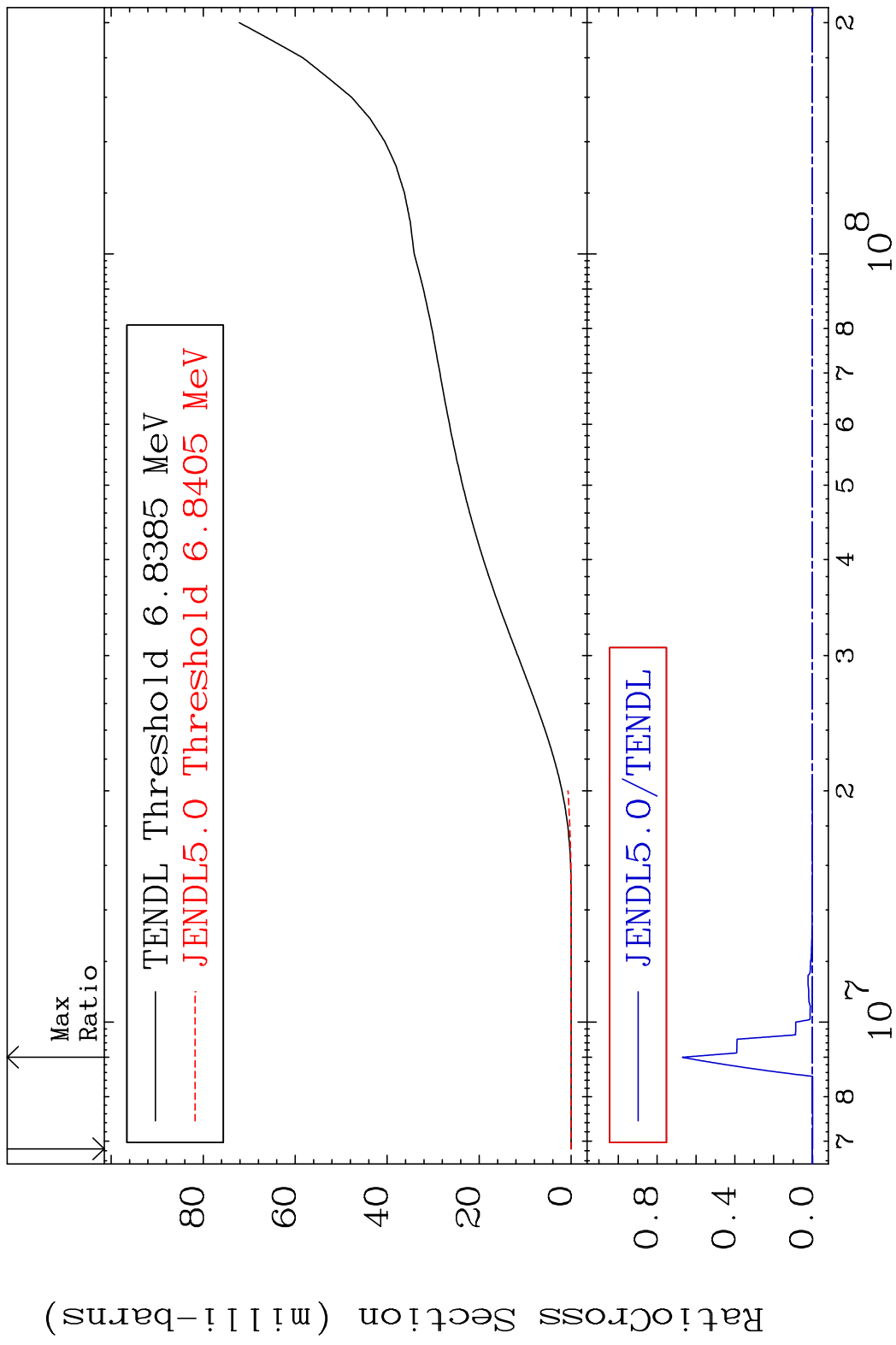
Incident Energy (eV)

64-Gd-152

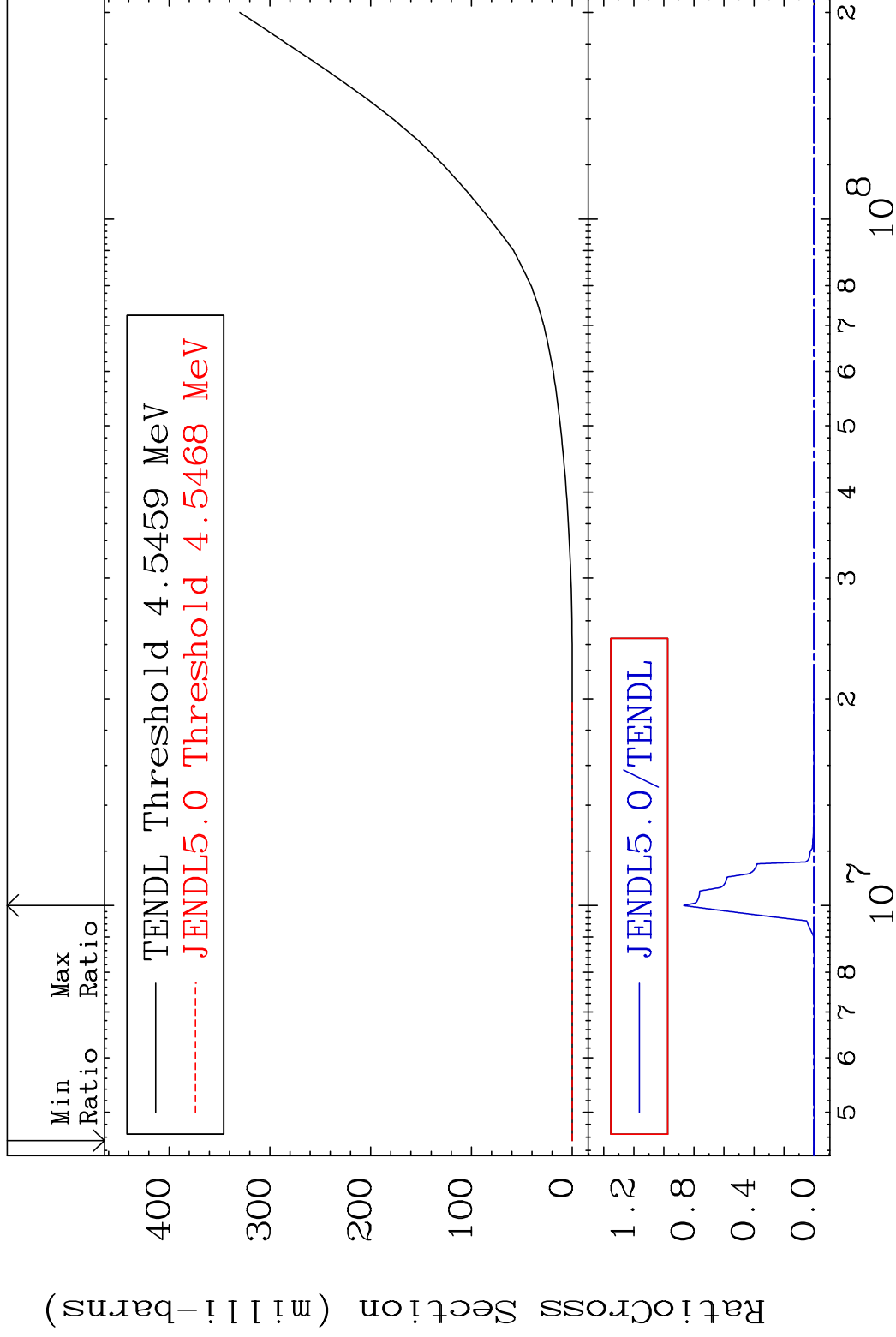
MAT 6425 Deuterium Production 64-Gd-152  
 Cross Section -100.0 To 9999. %



MAT 6425 Tritium Production 64-Gd-152  
 Cross Section -100.0 To 9999. %



Cross Section -100.0 To 9999. %

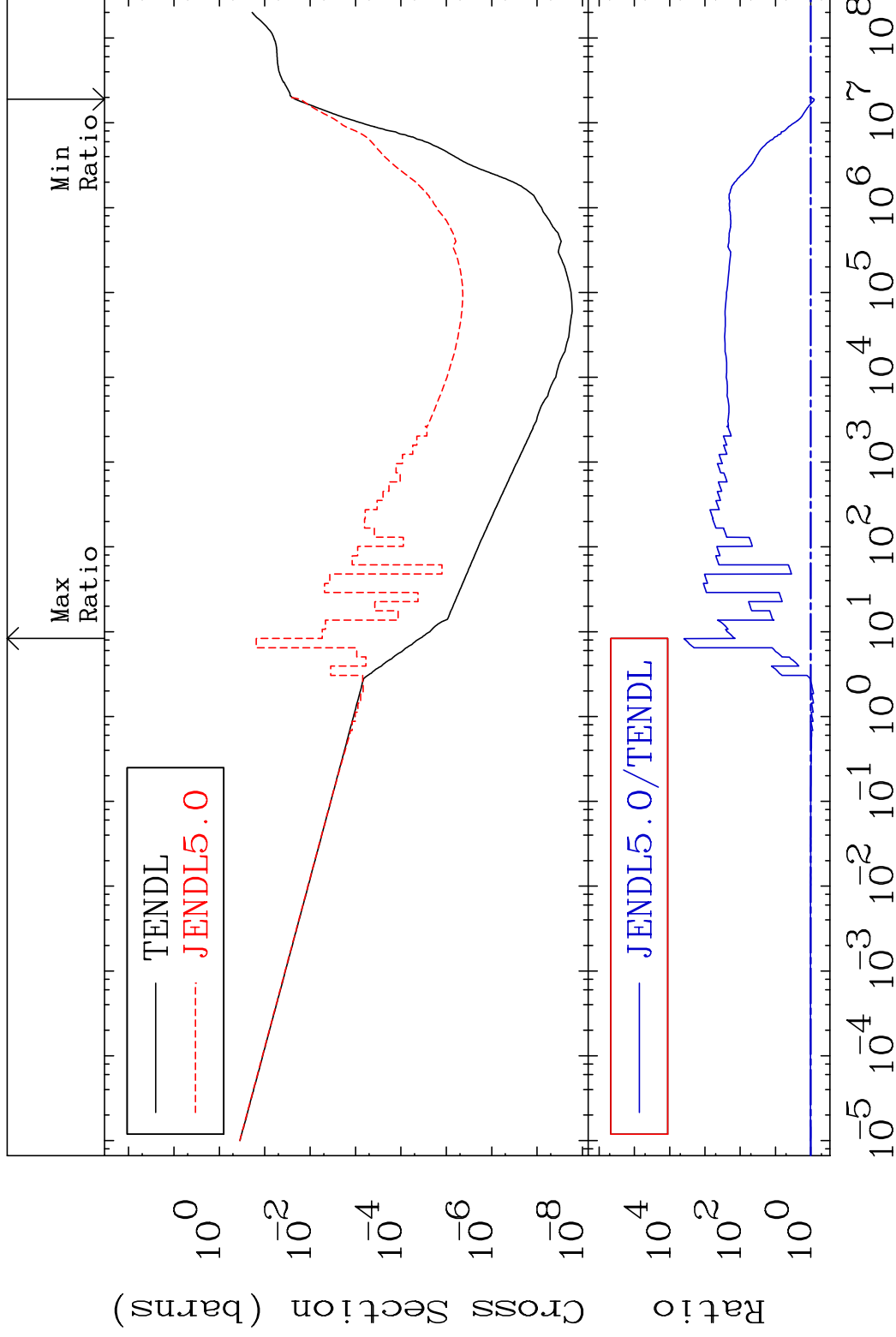


MAT 6425

He-4 Production

64-Gd-152

Cross Section -19.50 To 9999. %



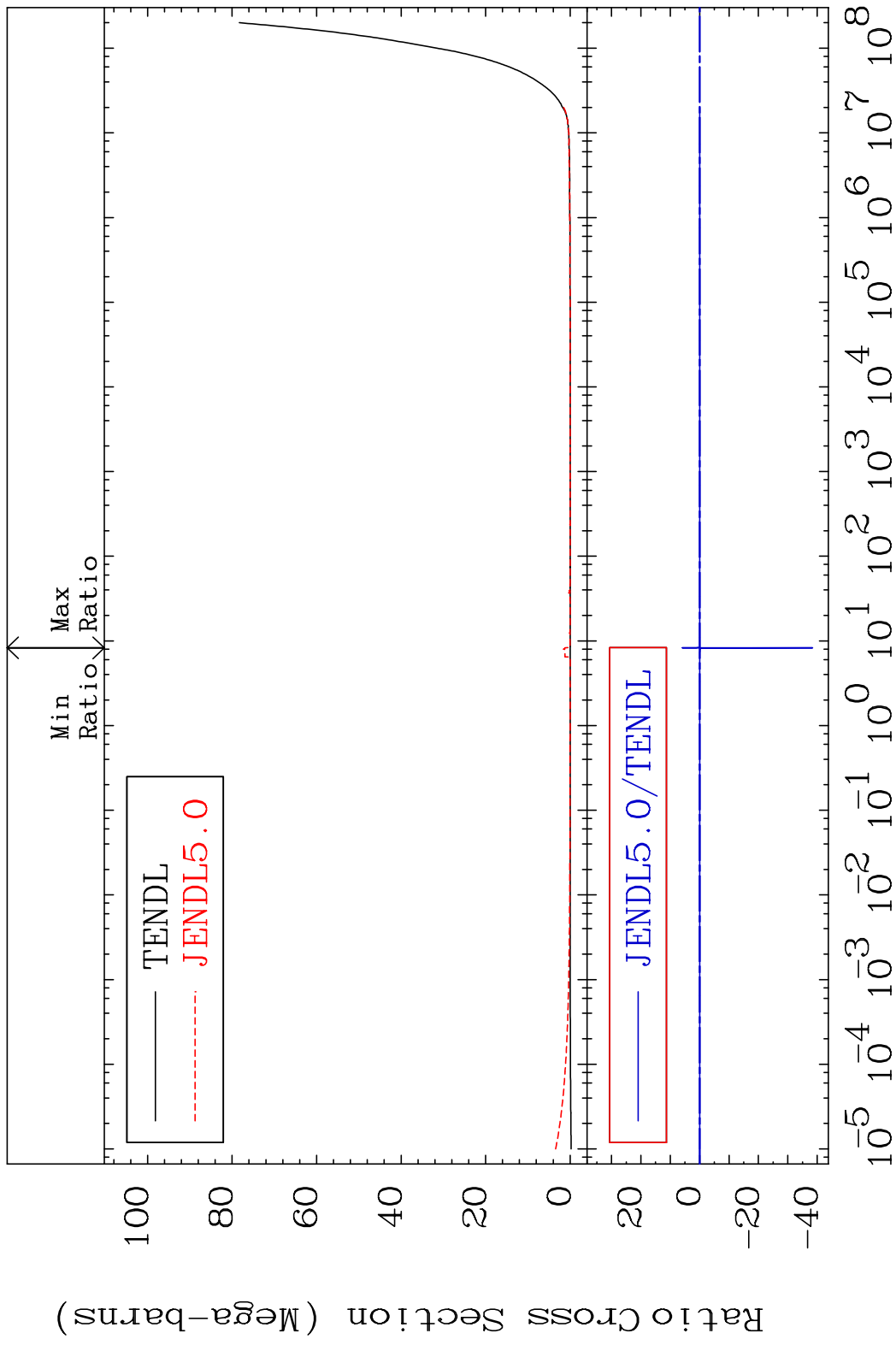
55

Incident Energy (eV)

64-Gd-152



MAT 6425 Kerma total (eV-barns) 64-Gd-152  
 Cross Section -9999. To 9999. %

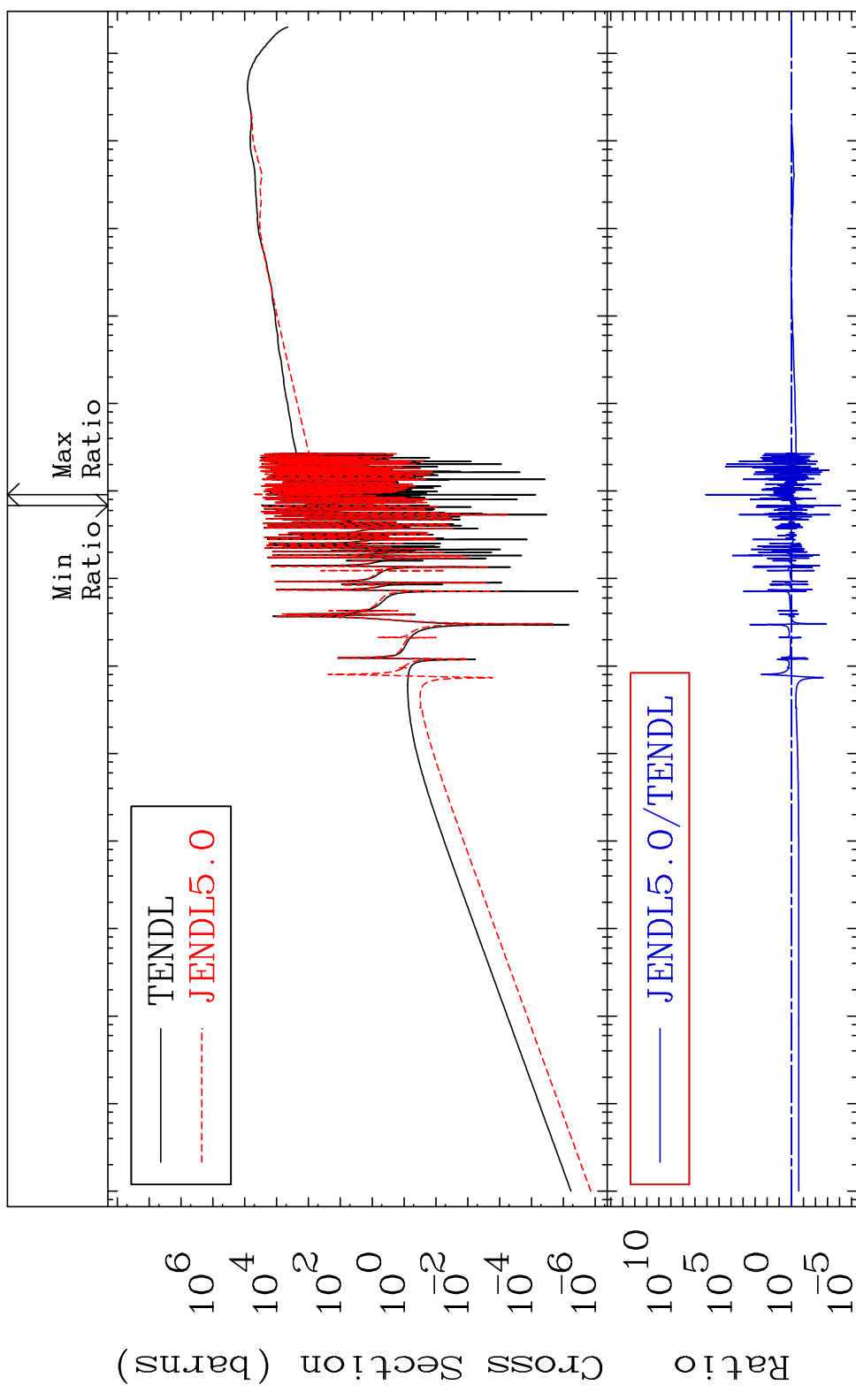


56 Incident Energy (eV) 64-Gd-152

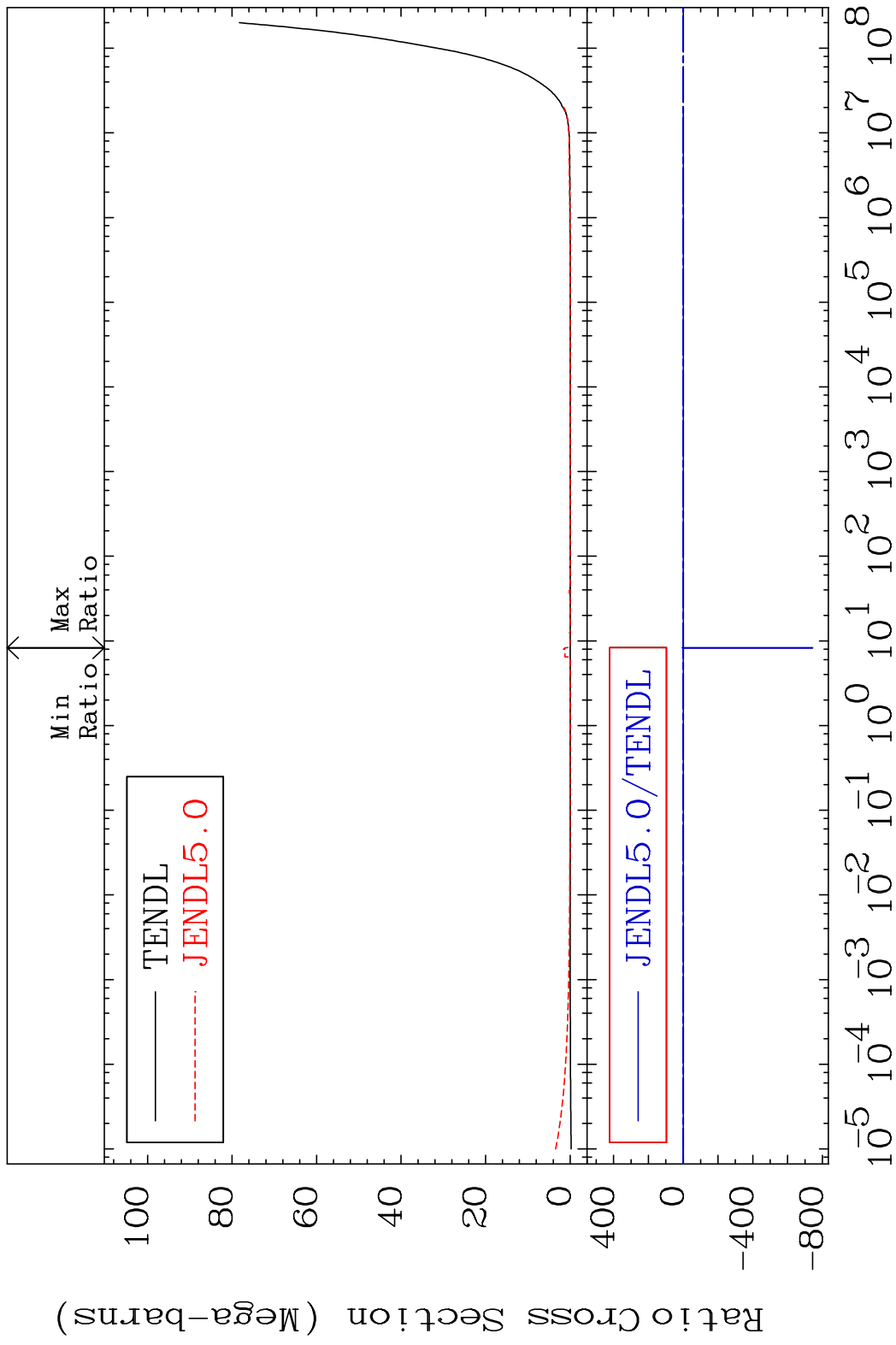
MAT 6425

Kerma elastic  
Cross Section -99.99 To 9999. %

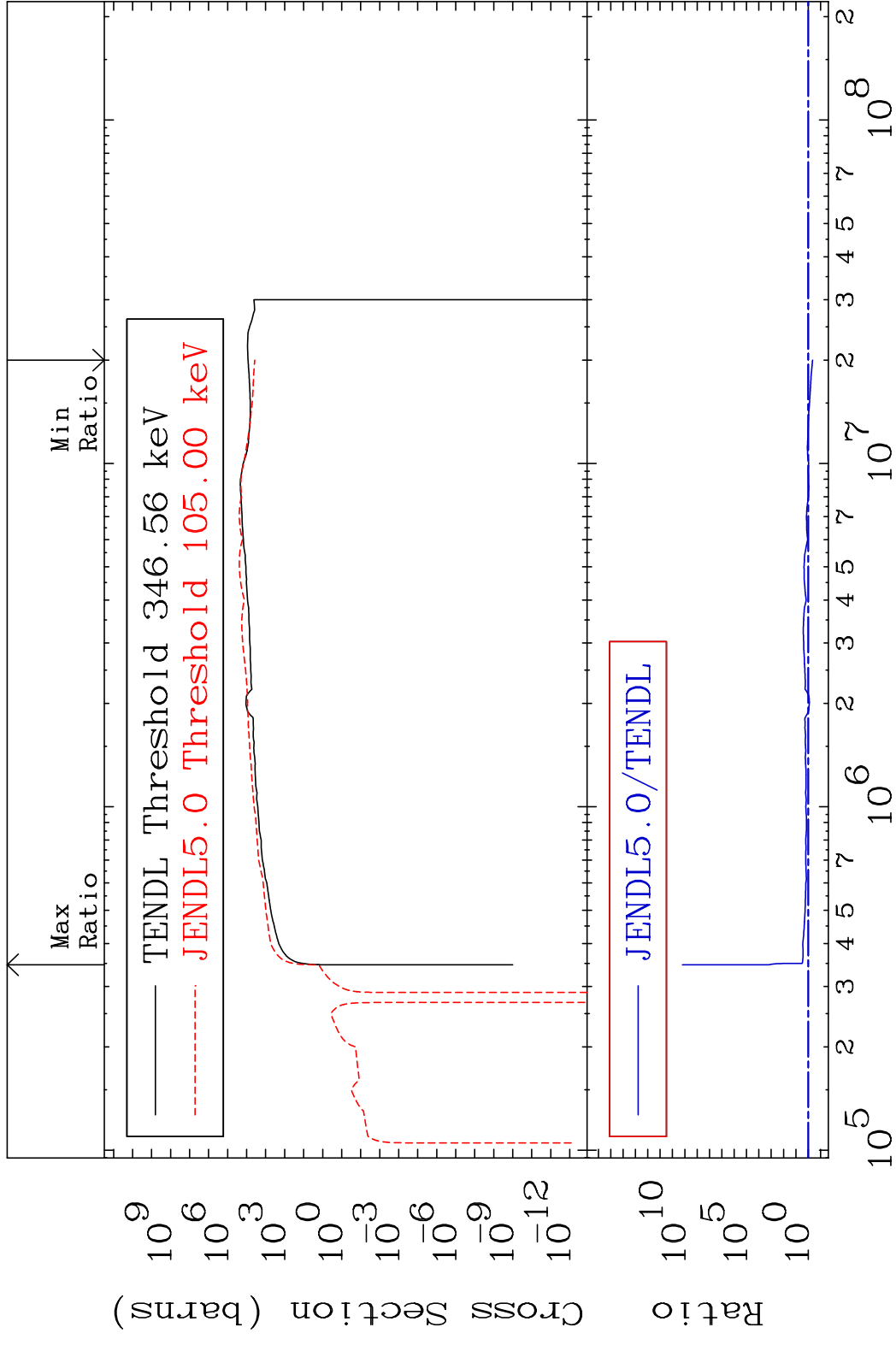
64-Gd-152



MAT 6425 Kerma non-elastic (all but mt2) 64-Gd-152  
 Cross Section -9999. To 9999. %

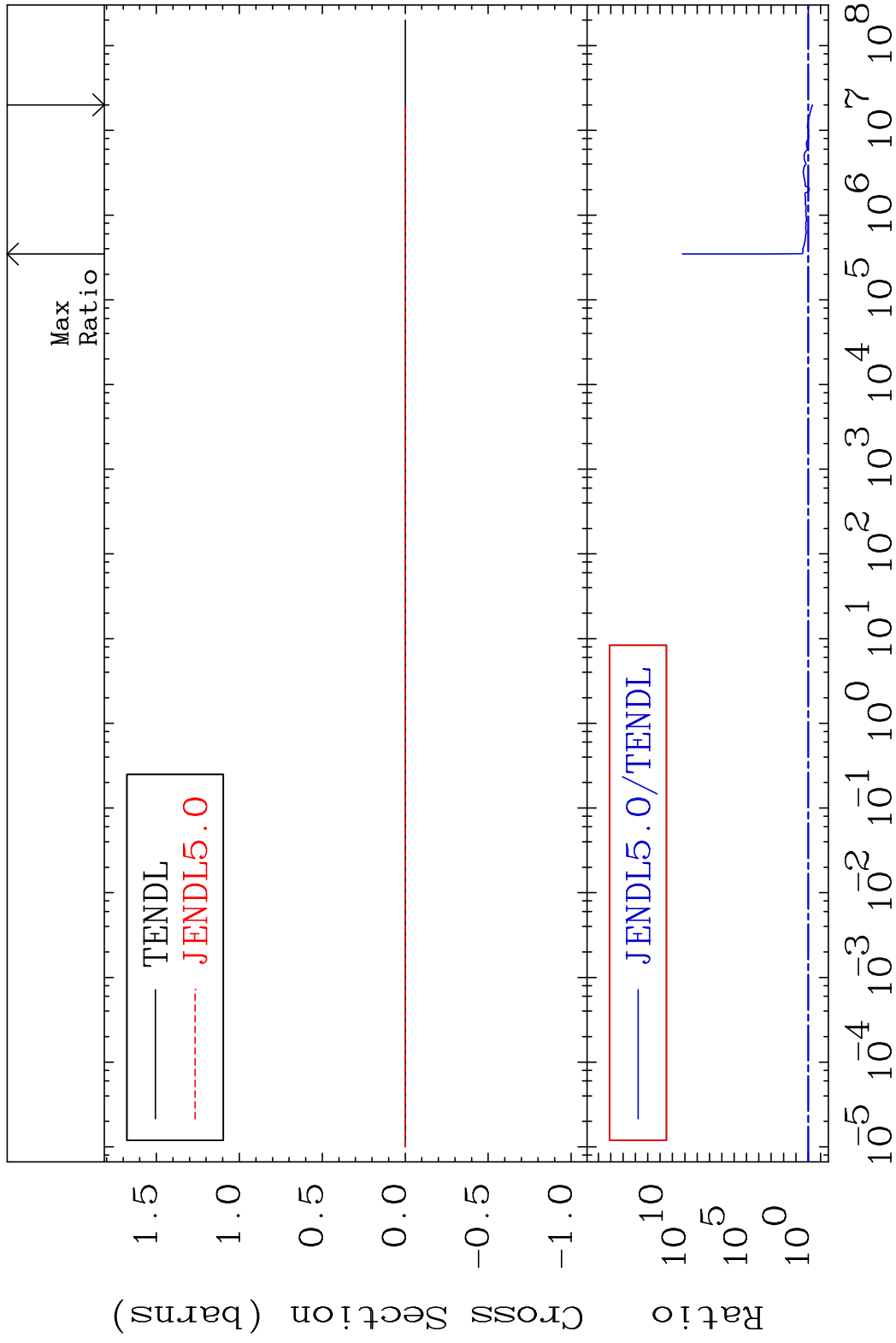


MAT 6425 Kerma inelastic (mt51-91) 64-Gd-152  
 Cross Section -55.28 To 9999. %



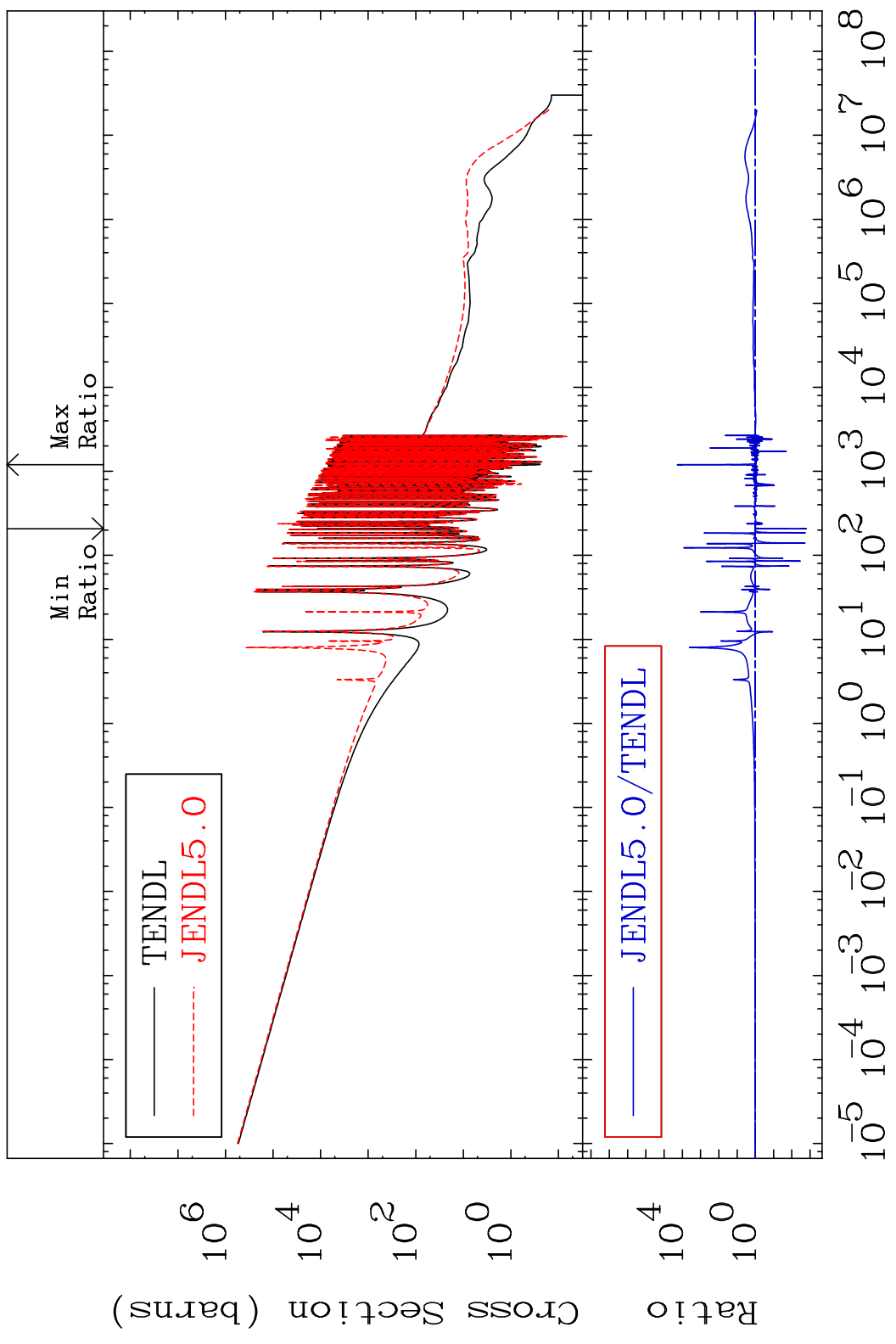
59 Incident Energy (eV) 64-Gd-152

MAT 6425 Kerma fission (mt18 or mt19-20-21-38) 64-Gd-152  
 Cross Section -55.28 To 9999. %



MAT 6425

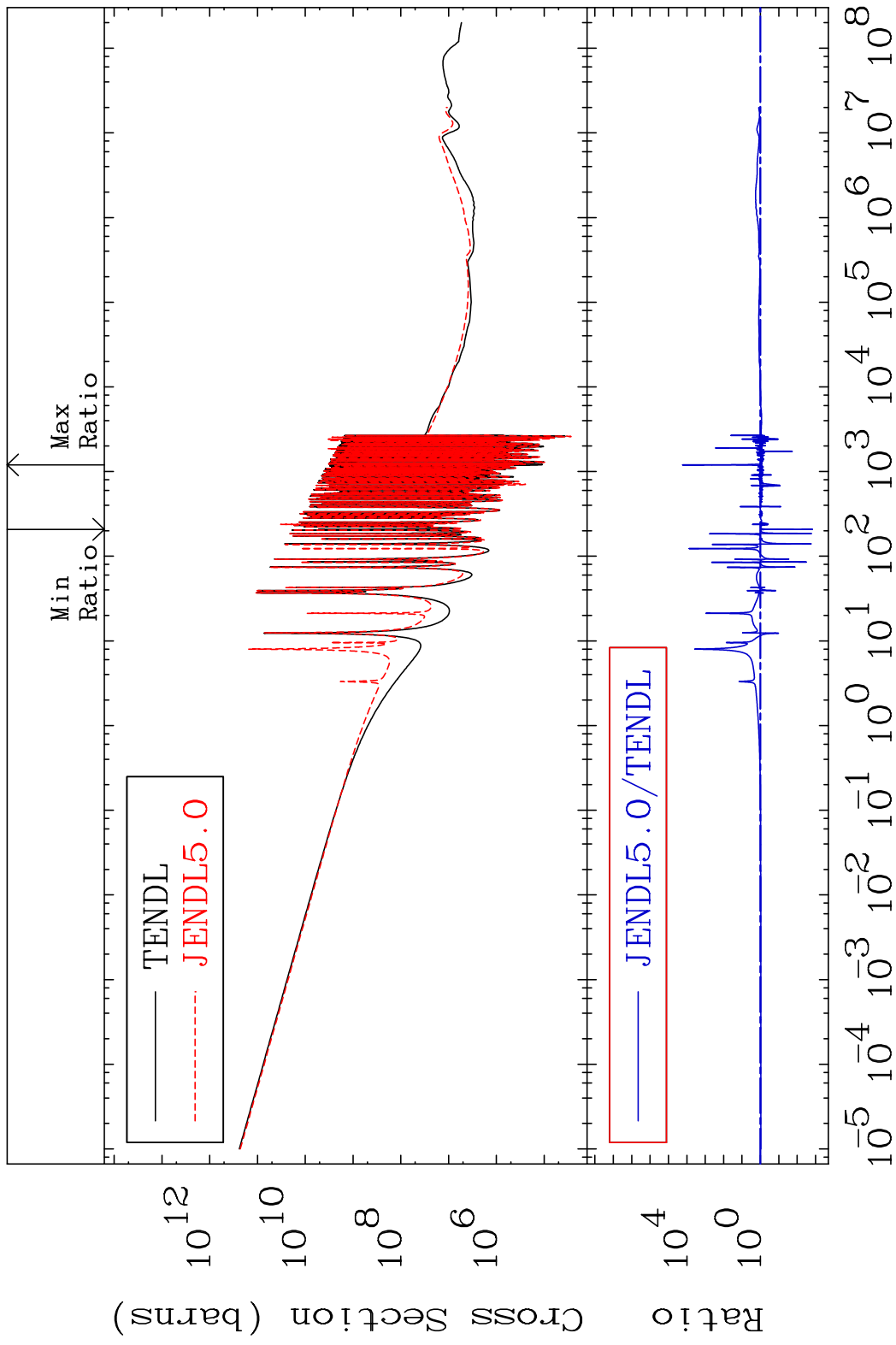
Kerma capture (mt102) 64-Gd-152  
Cross Section -99.84 To 9999. %



61

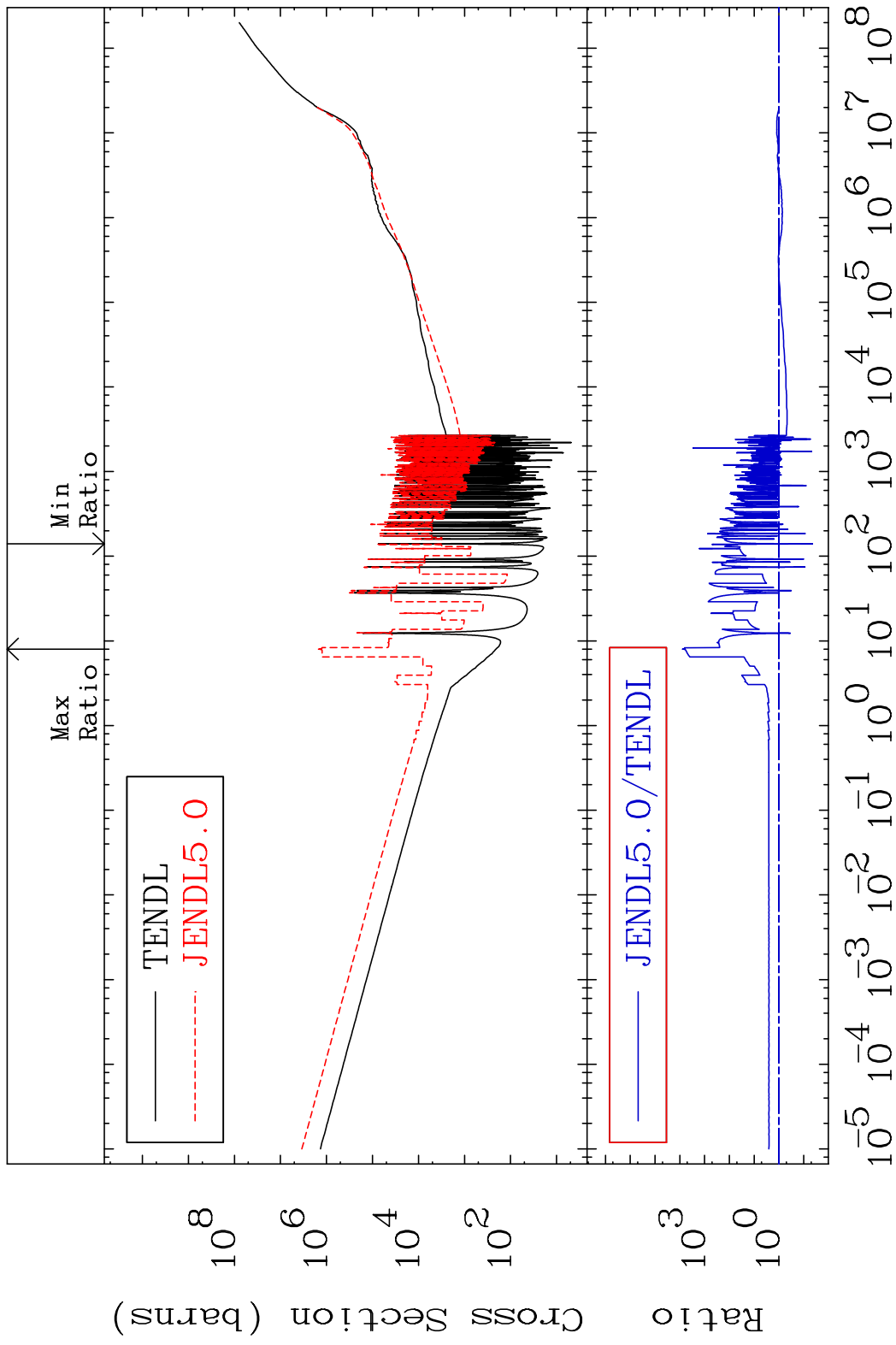
Incident Energy (eV) 64-Gd-152

MAT 6425 Total photon (eV-barns) 64-Gd-152  
Cross Section -99.85 To 9999. %



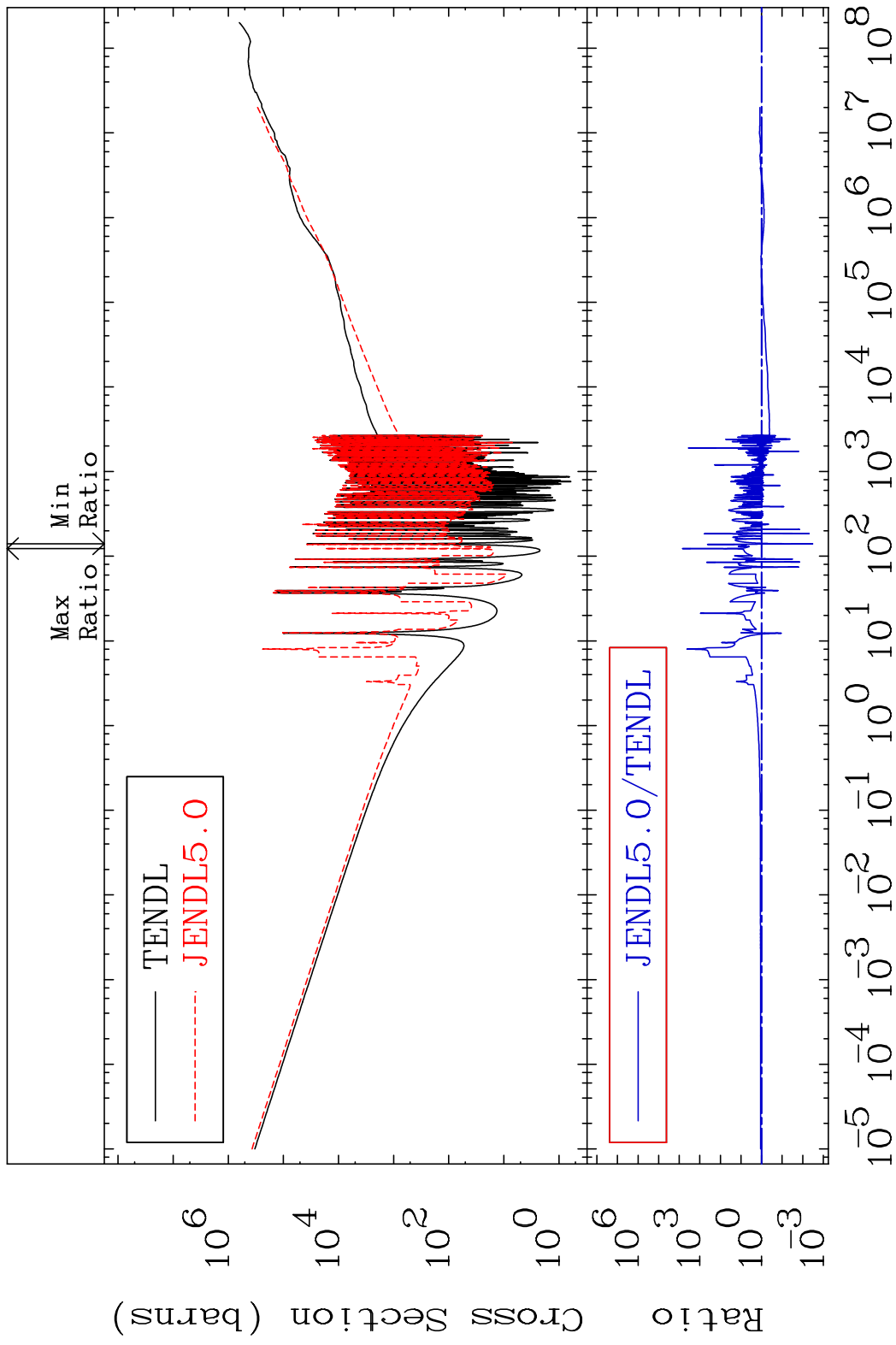
62 Incident Energy (eV) 64-Gd-152

MAT 6425 Total kinematic kerma (high limit) 64-Gd-152  
 Cross Section -95.61 To 9999. %





MAT 6425      Dpa total (eV-barns)      64-Gd-152  
 Cross Section      -99.67 To 9999.      %



64      Incident Energy (eV)      64-Gd-152

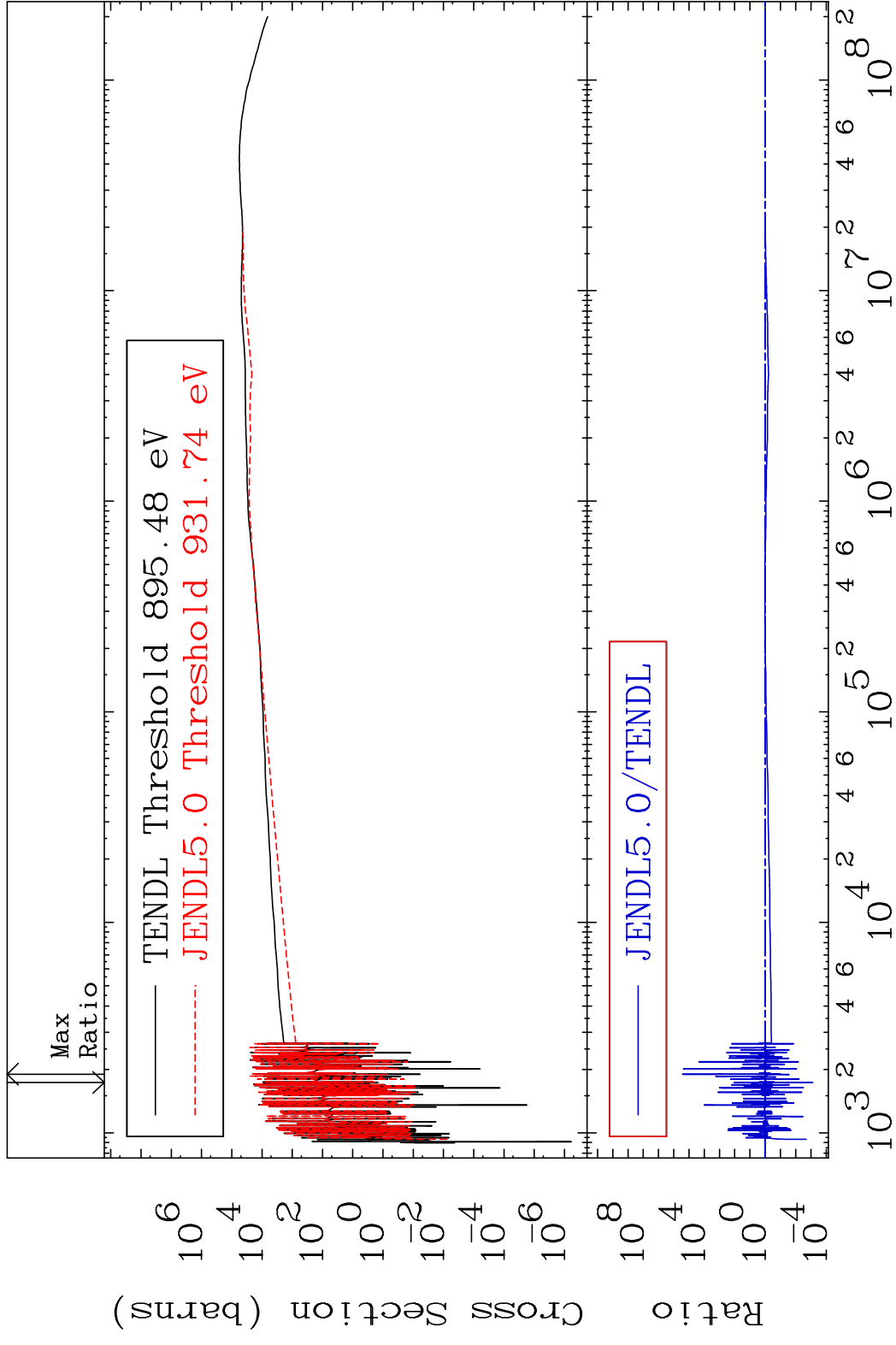
MAT 6425

Dpa elastic (mt2)

64-Gd-152

Cross Section

-99.92 To 9999. %

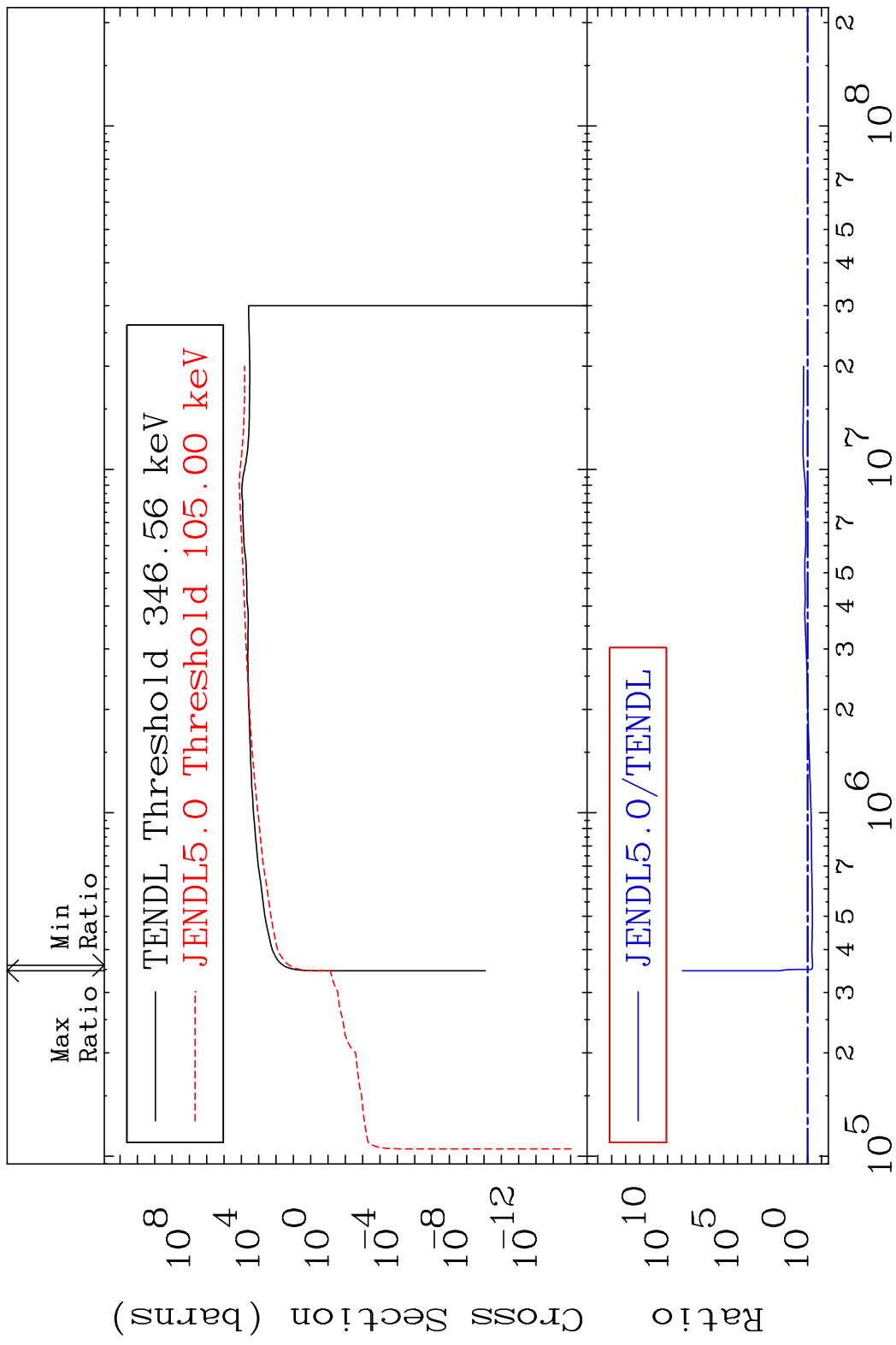


65

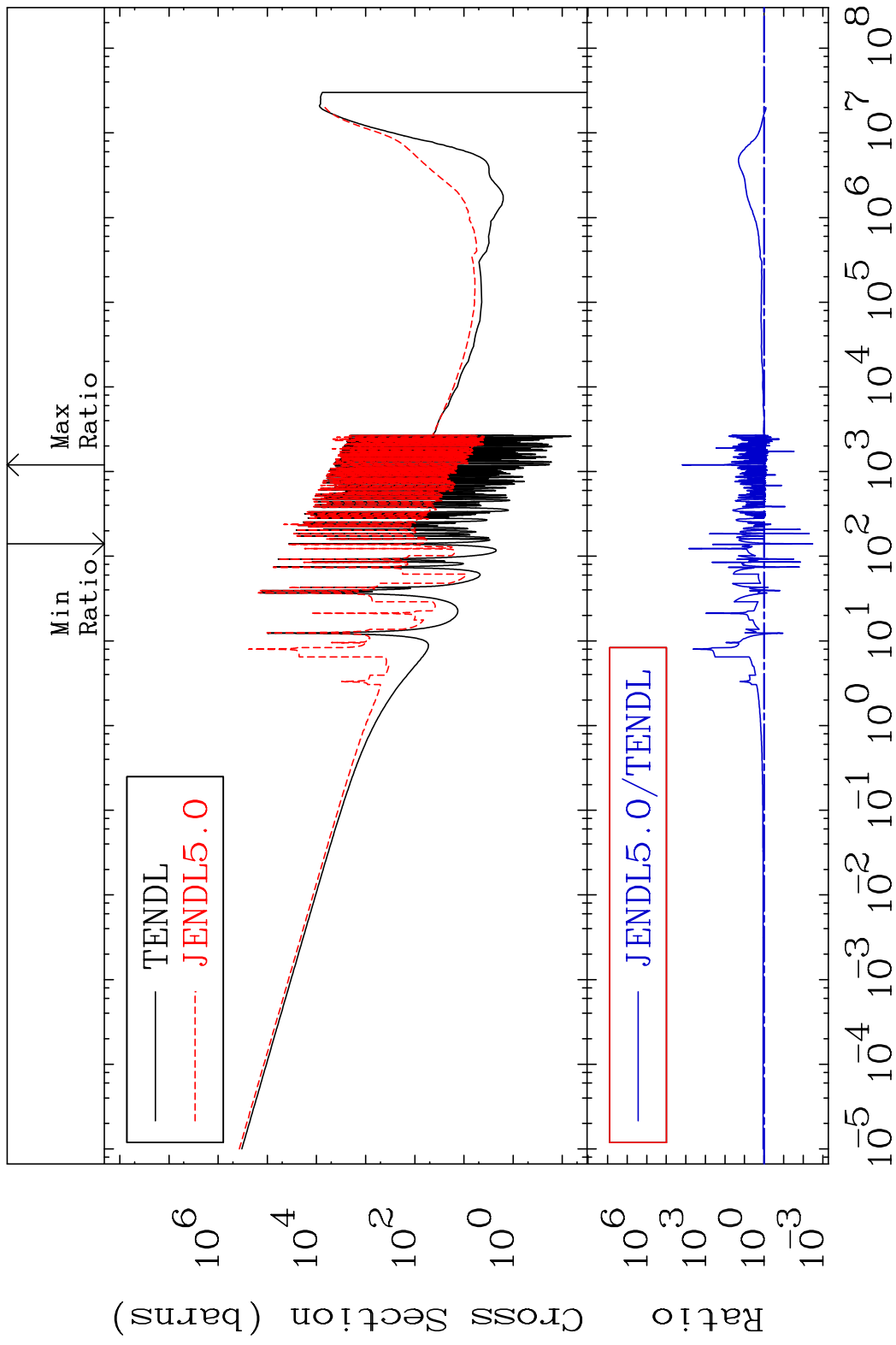
Incident Energy (eV)

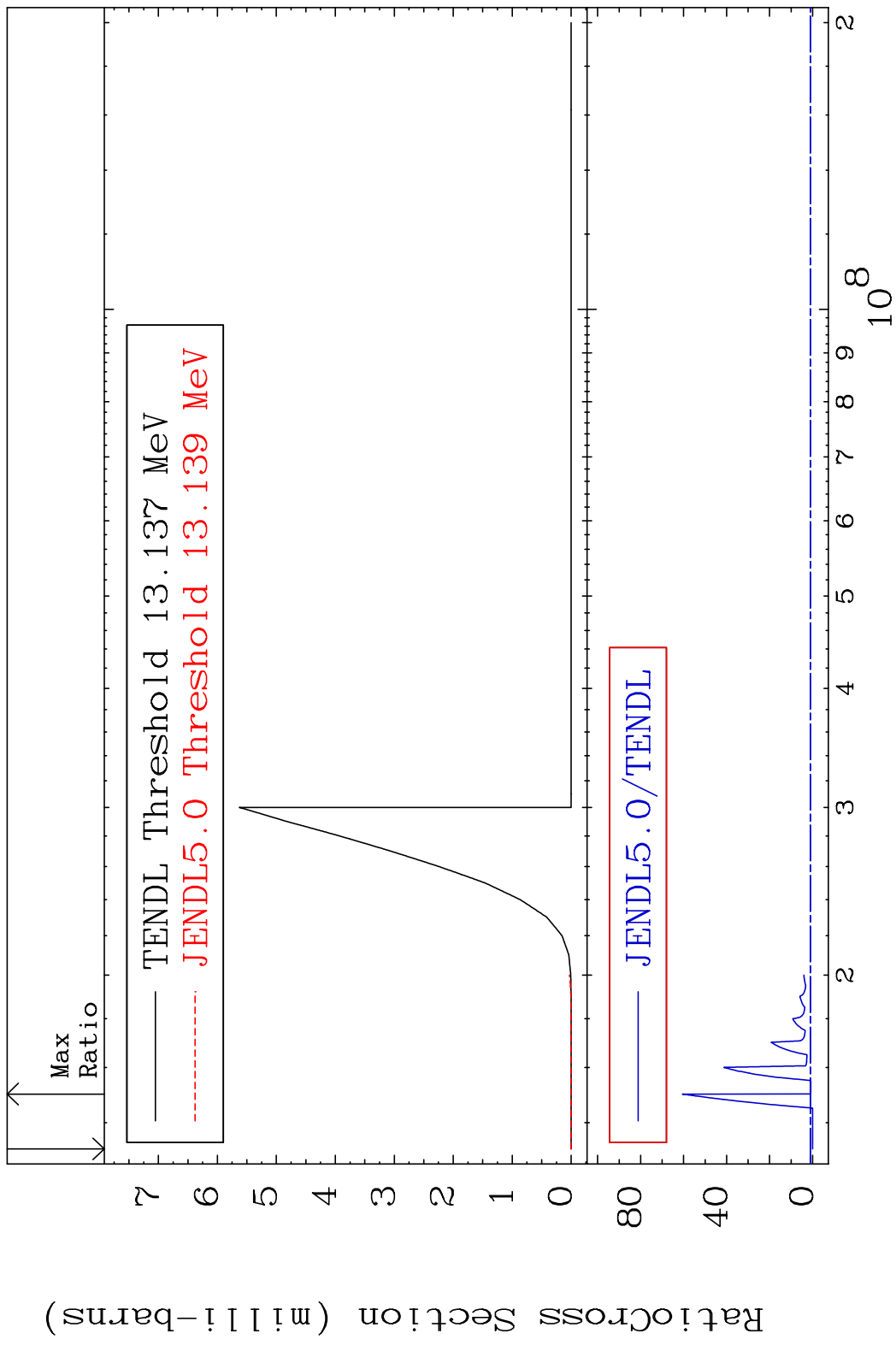
64-Gd-152

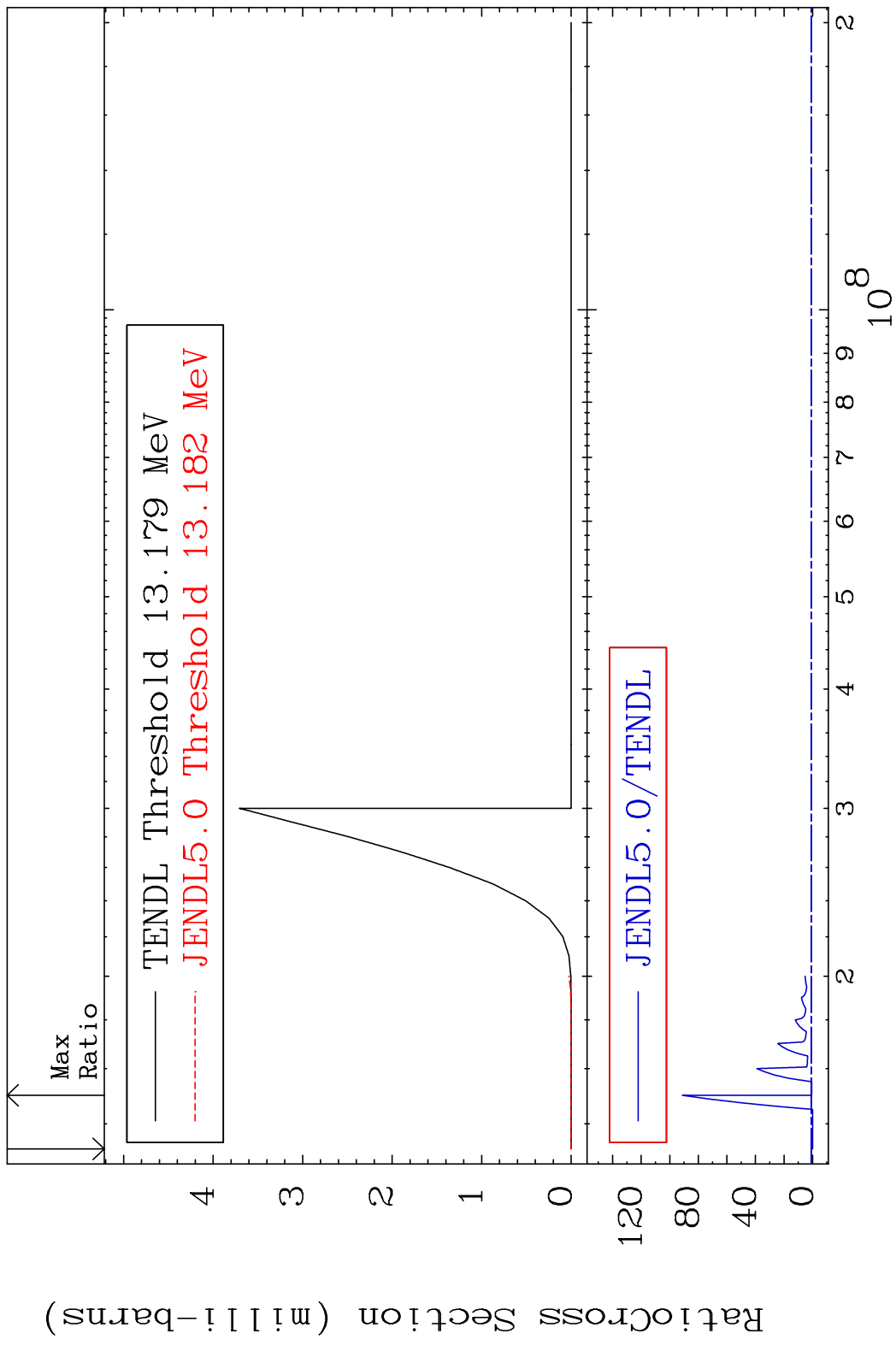
MAT 6425 Dpa inelastic (mt51-91) 64-Gd-152  
 Cross Section -56.52 To 9999. %

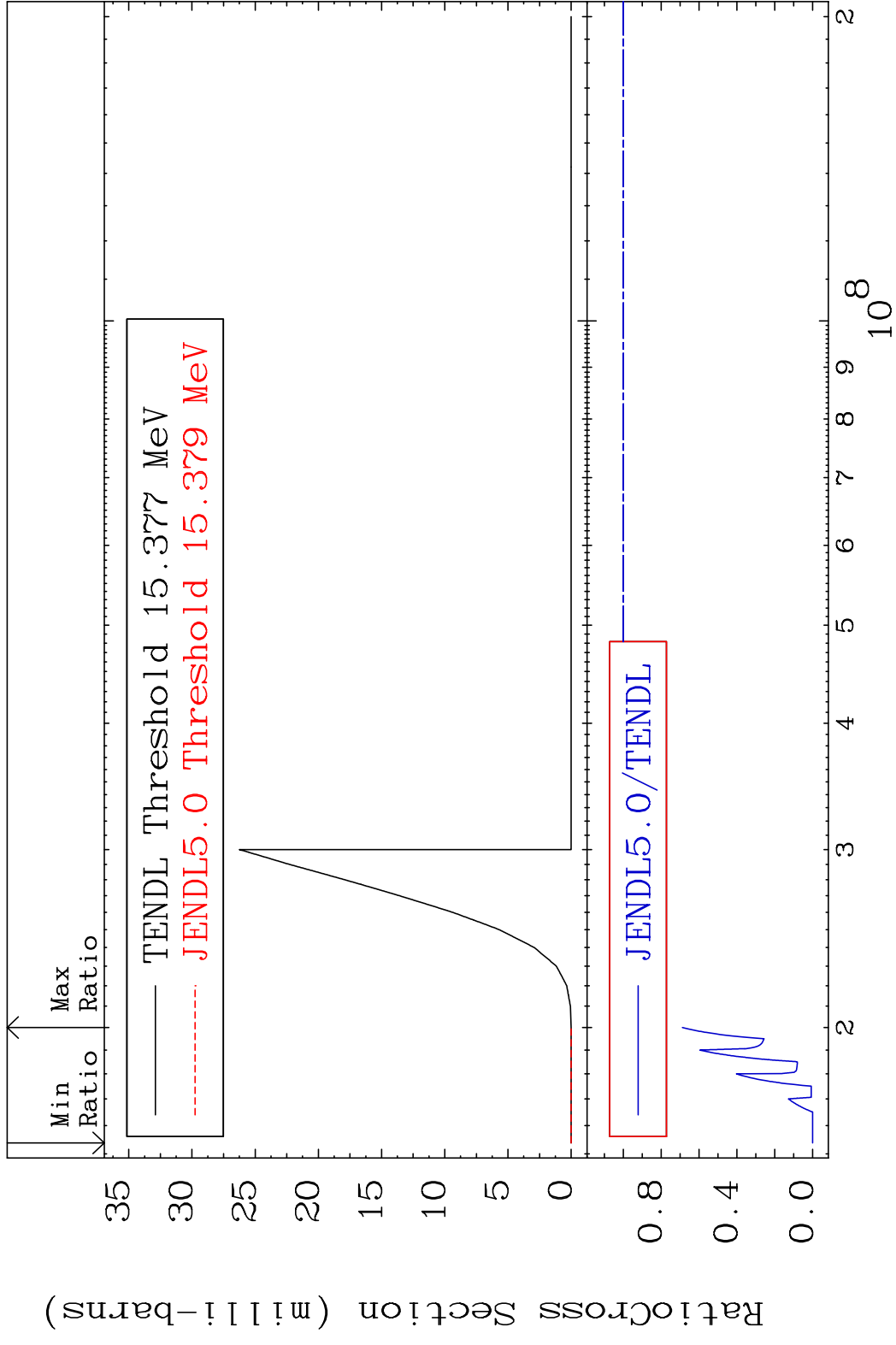


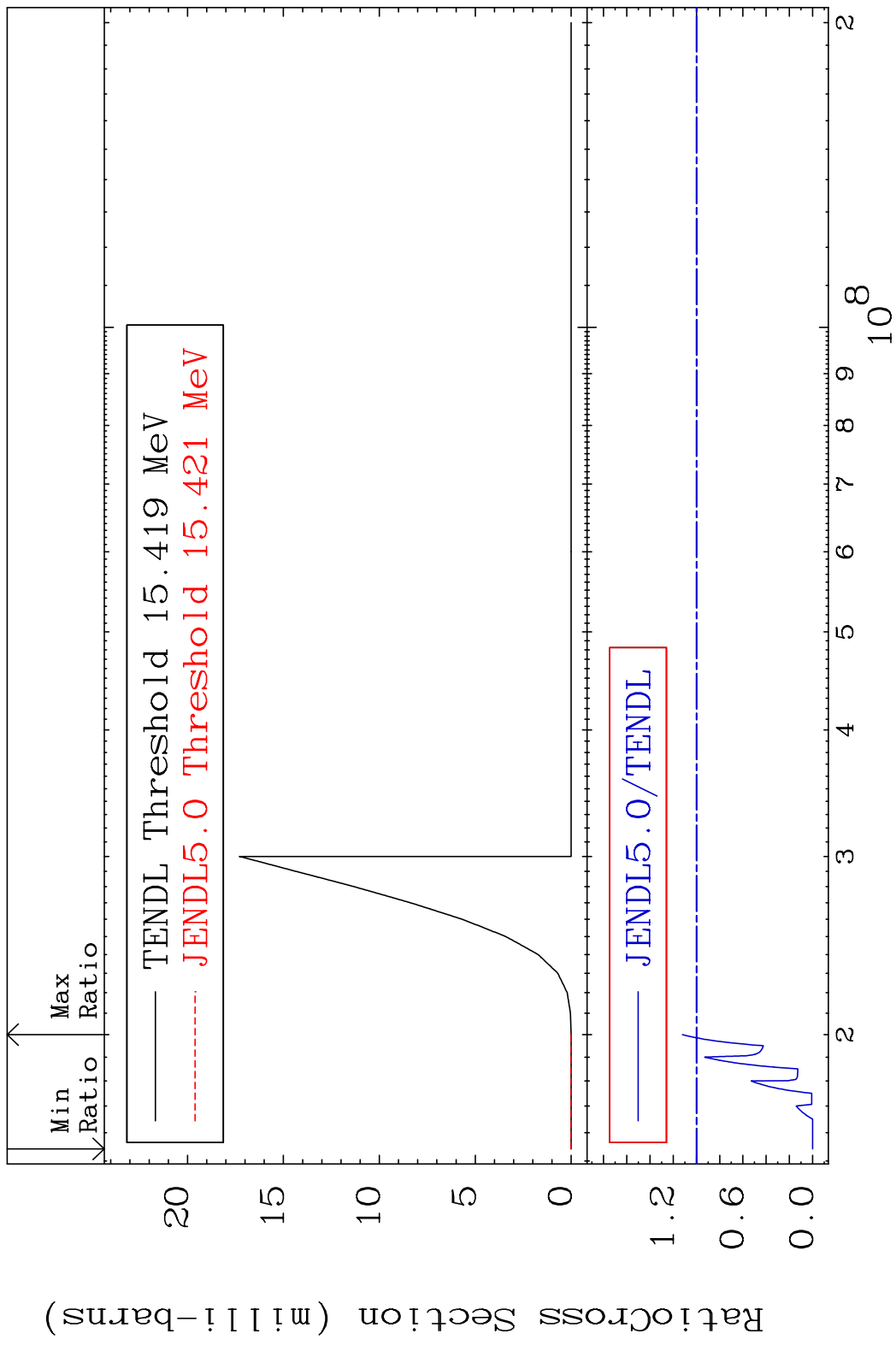
MAT 6425 Dpa disappearance (mt102 -120) 64-Gd-152  
 Cross Section -99.67 To 9999. %





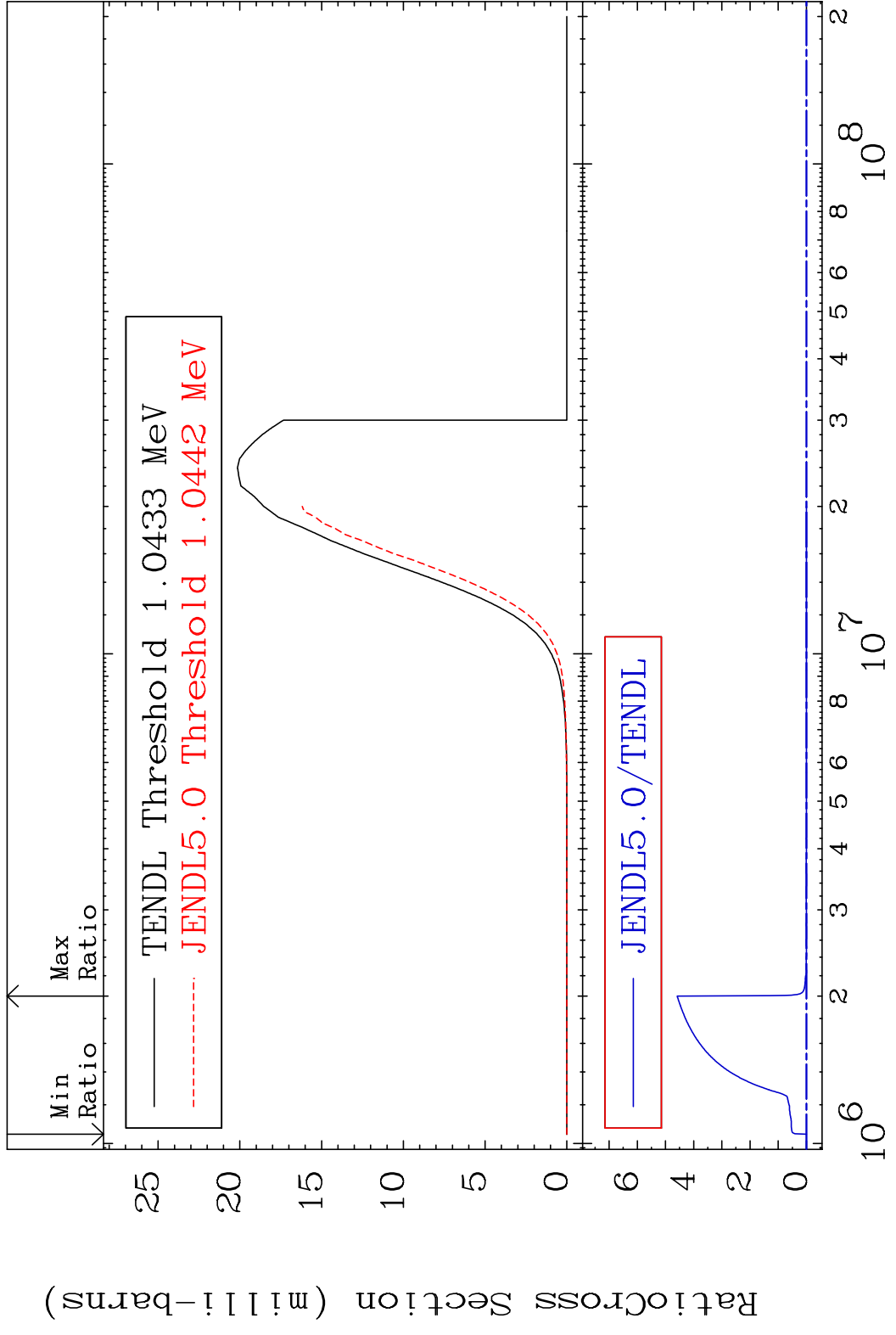


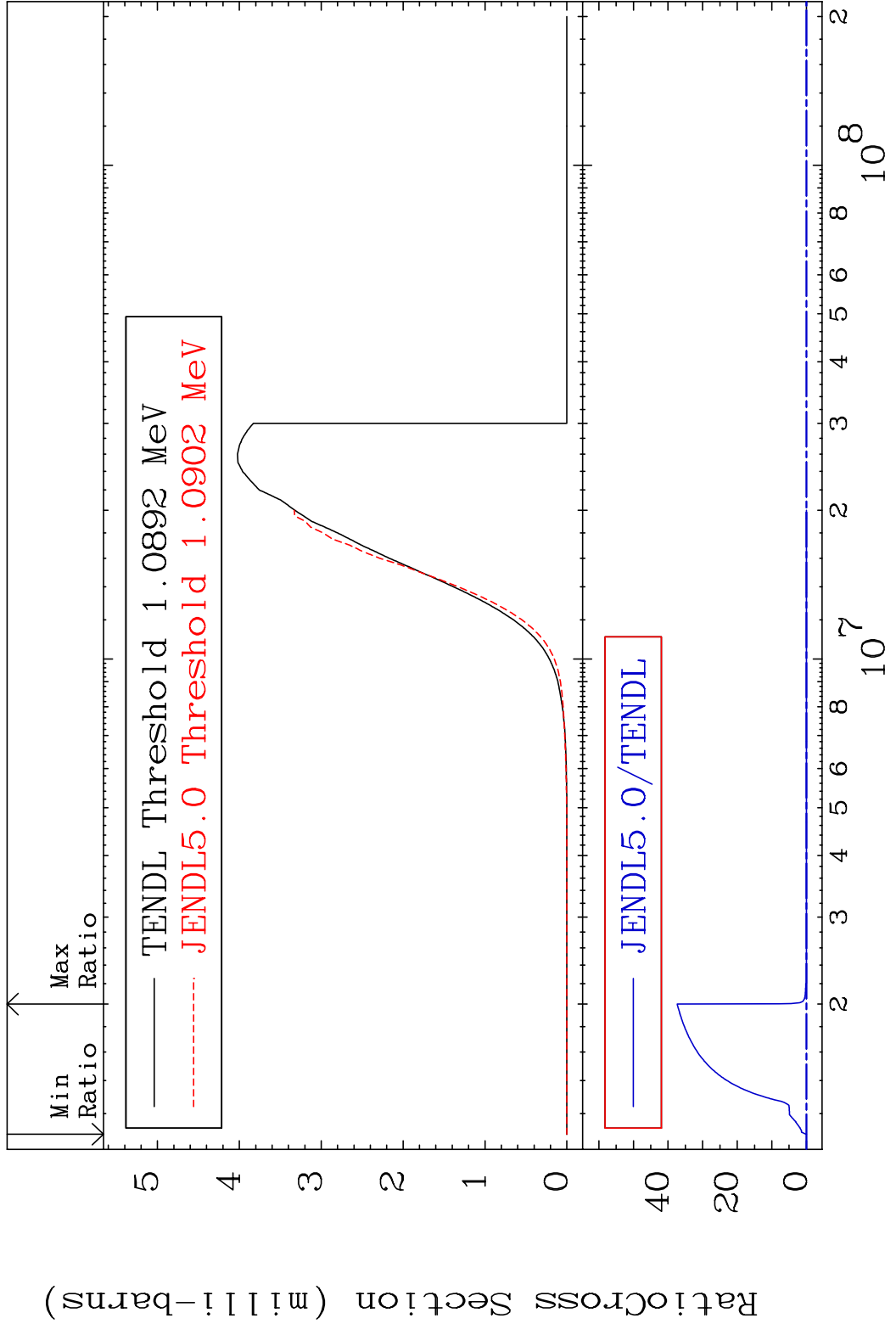






MAT 6425 (n,p):63-Eu-152g 64-Gd-152  
 Radionuclide Production Cross Section 100.00 to 9999.0 %





MAT 6425 (n,t):63-Eu-150g 64-Gd-152  
 Radionuclide Production Cross Section Ratio 9999. %

