

Program Complot  
(Version 2021-1)

by

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(Present Contact Information)

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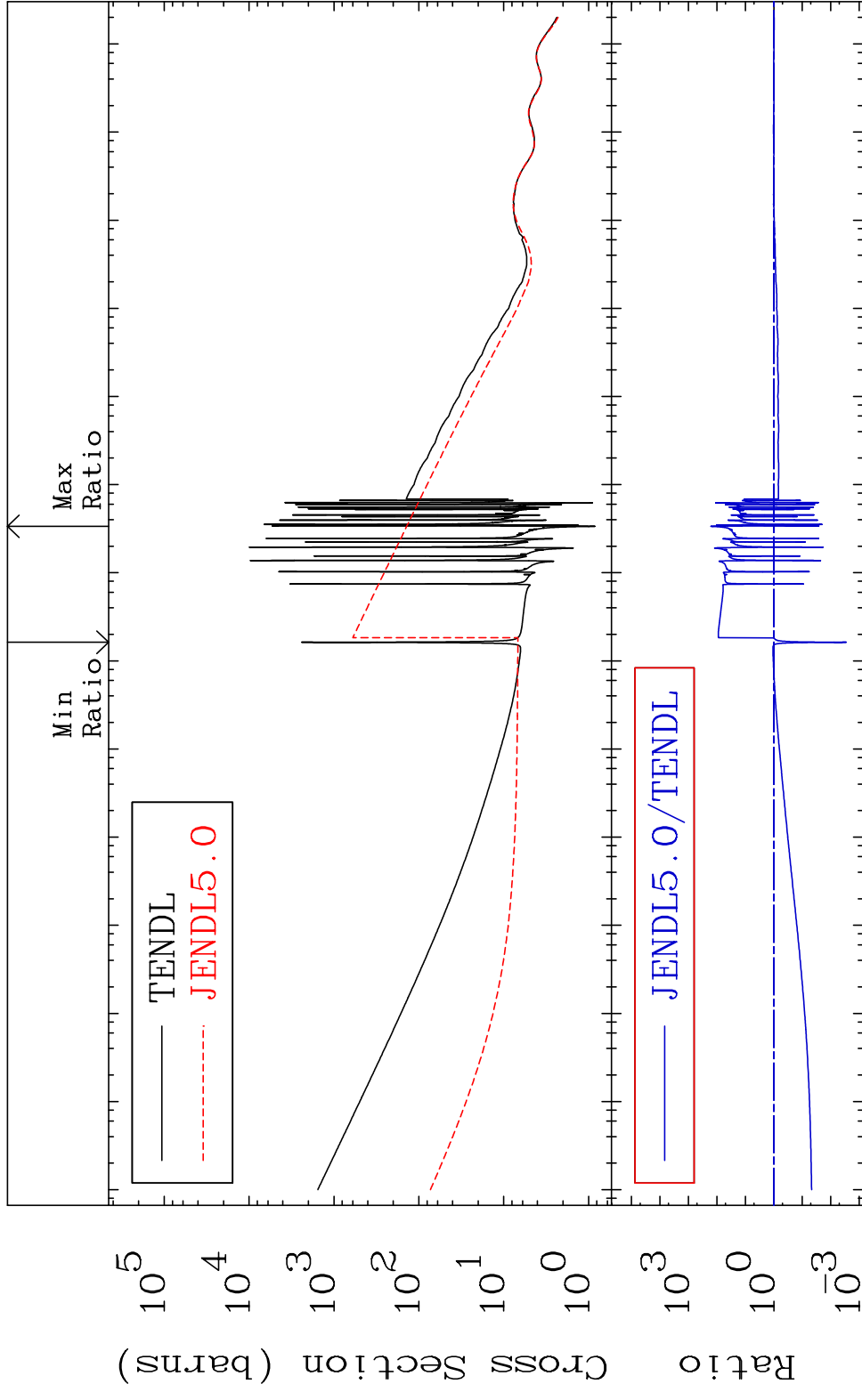
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6419

Total Cross Section -99.72 To 9999. %

64-Gd-150



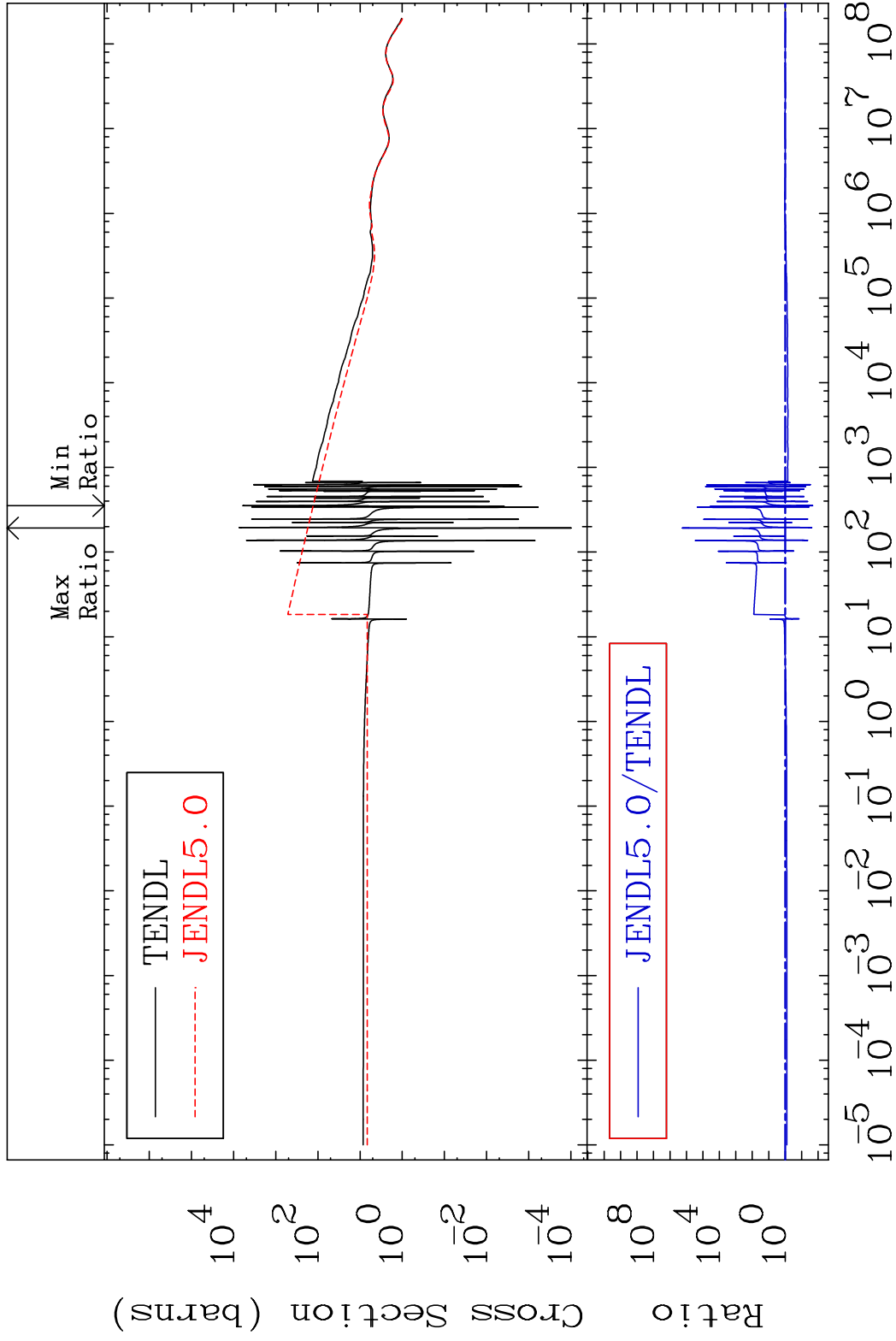
1 Incident Energy (eV) 64-Gd-150

MAT 6419

Elastic

64-Gd-150

Cross Section -97.83 To 9999. %

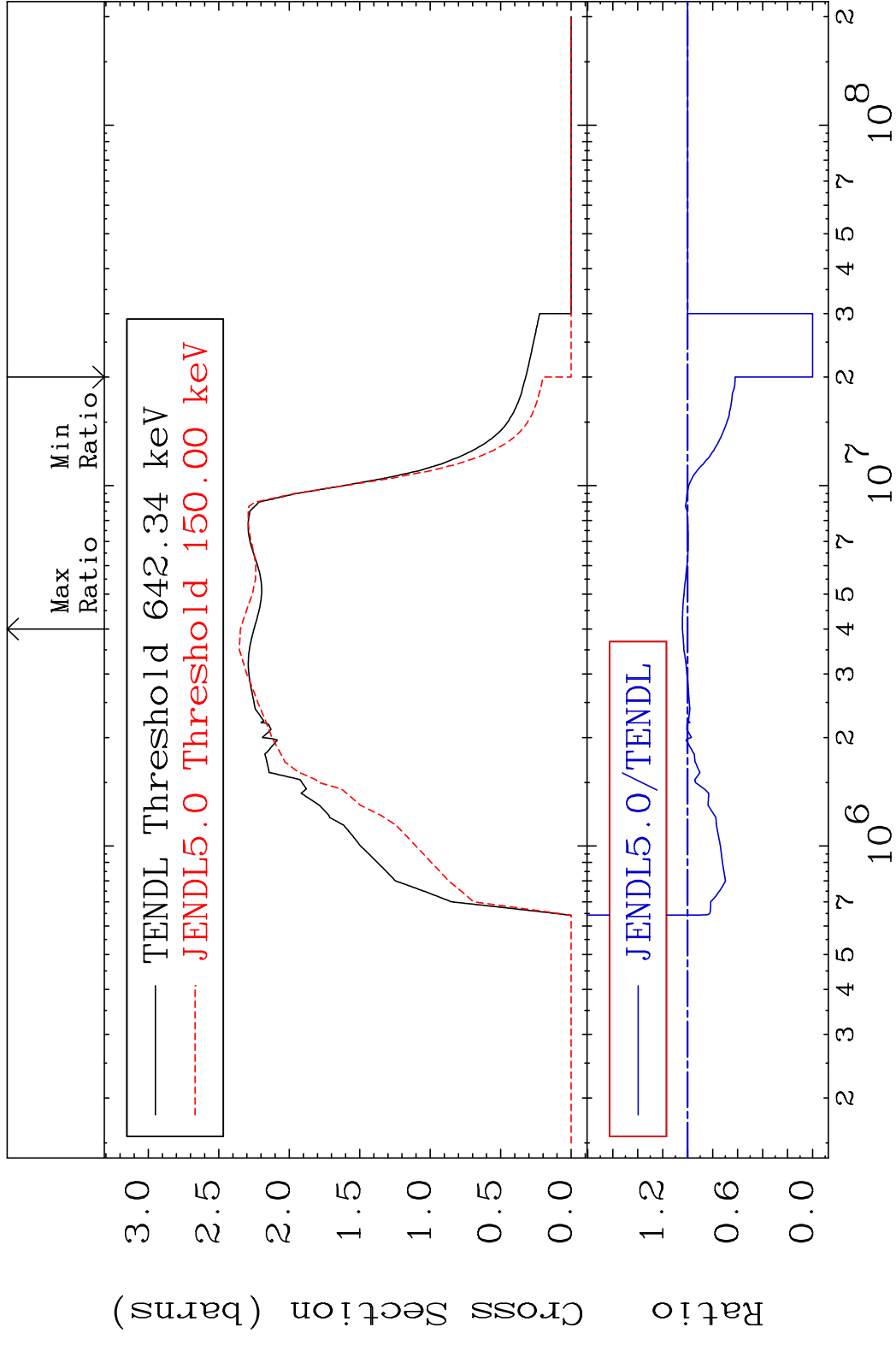


2

Incident Energy (eV)

64-Gd-150

MAT 6419 Inelastic Cross Section -100.0 To 4.286 % 64-Gd-150

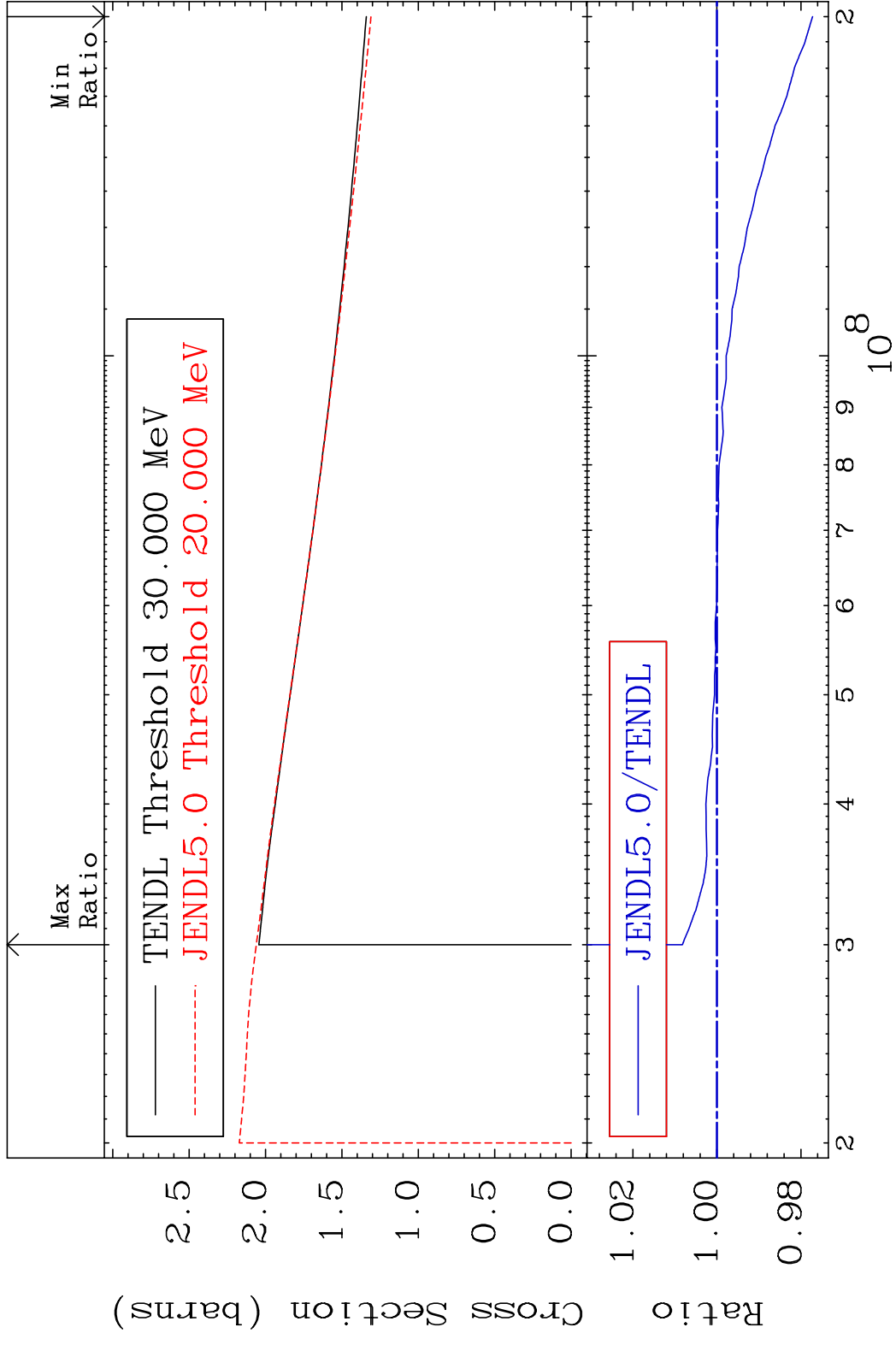


MAT 6419

(n, remainder)

64-Gd-150

Cross Section -2.277 To 0.823 %



4

Incident Energy (eV)

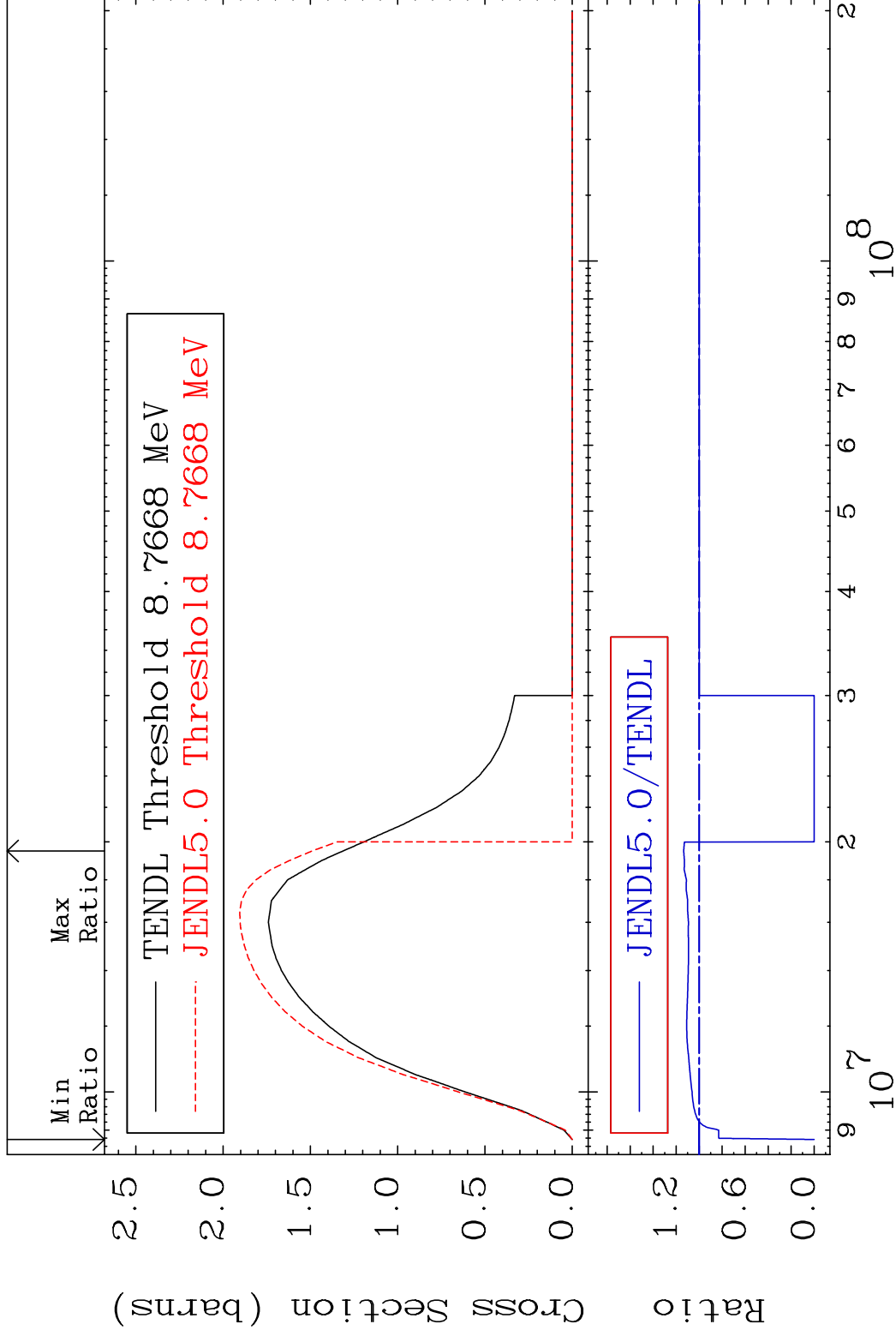
64-Gd-150

MAT 6419

(n,2n)

64-Gd-150

Cross Section -100.0 To 13.48 %



5

Incident Energy (eV)

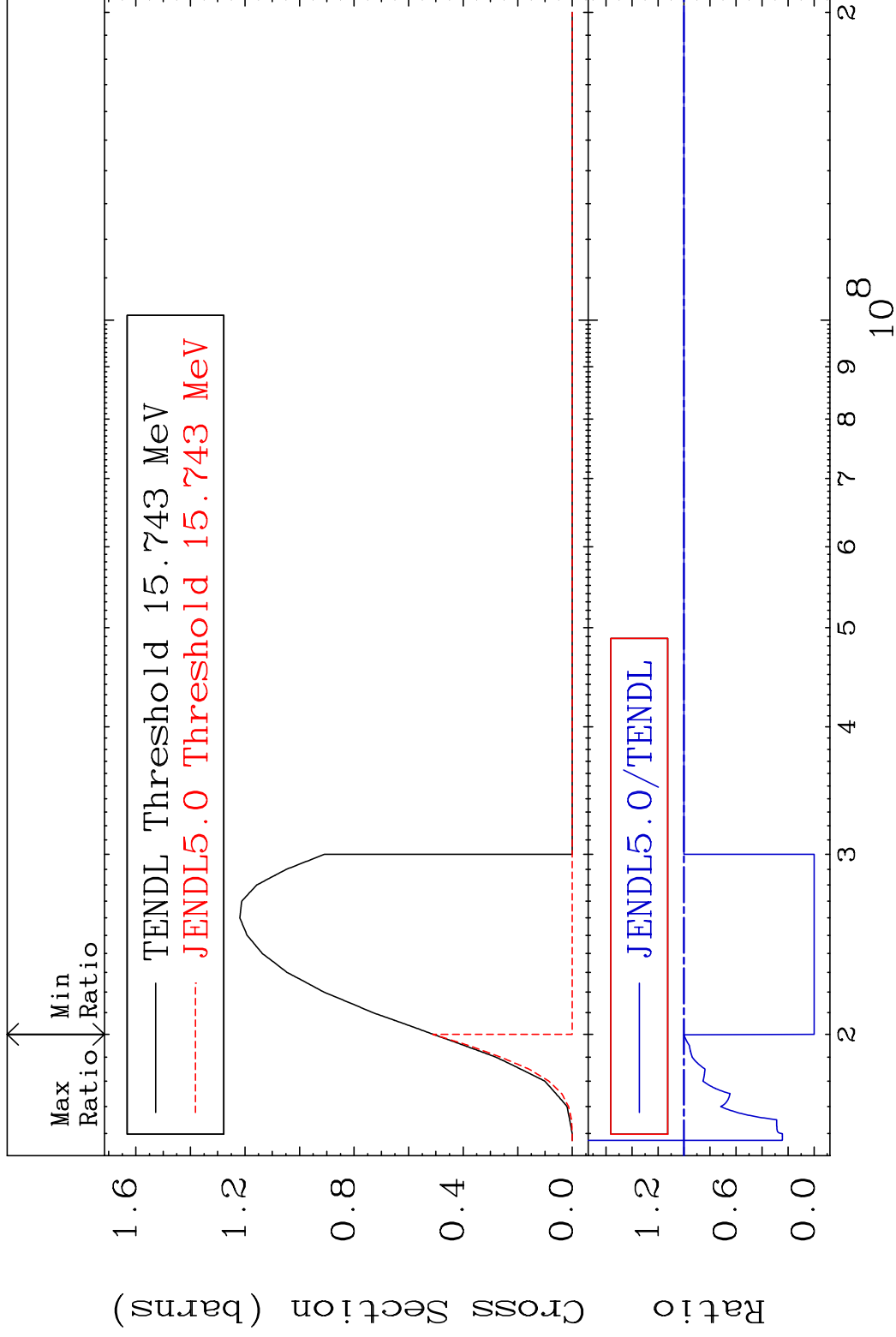
64-Gd-150

MAT 6419

(n,3n)

64-Gd-150

Cross Section -100.0 To 0.279 %

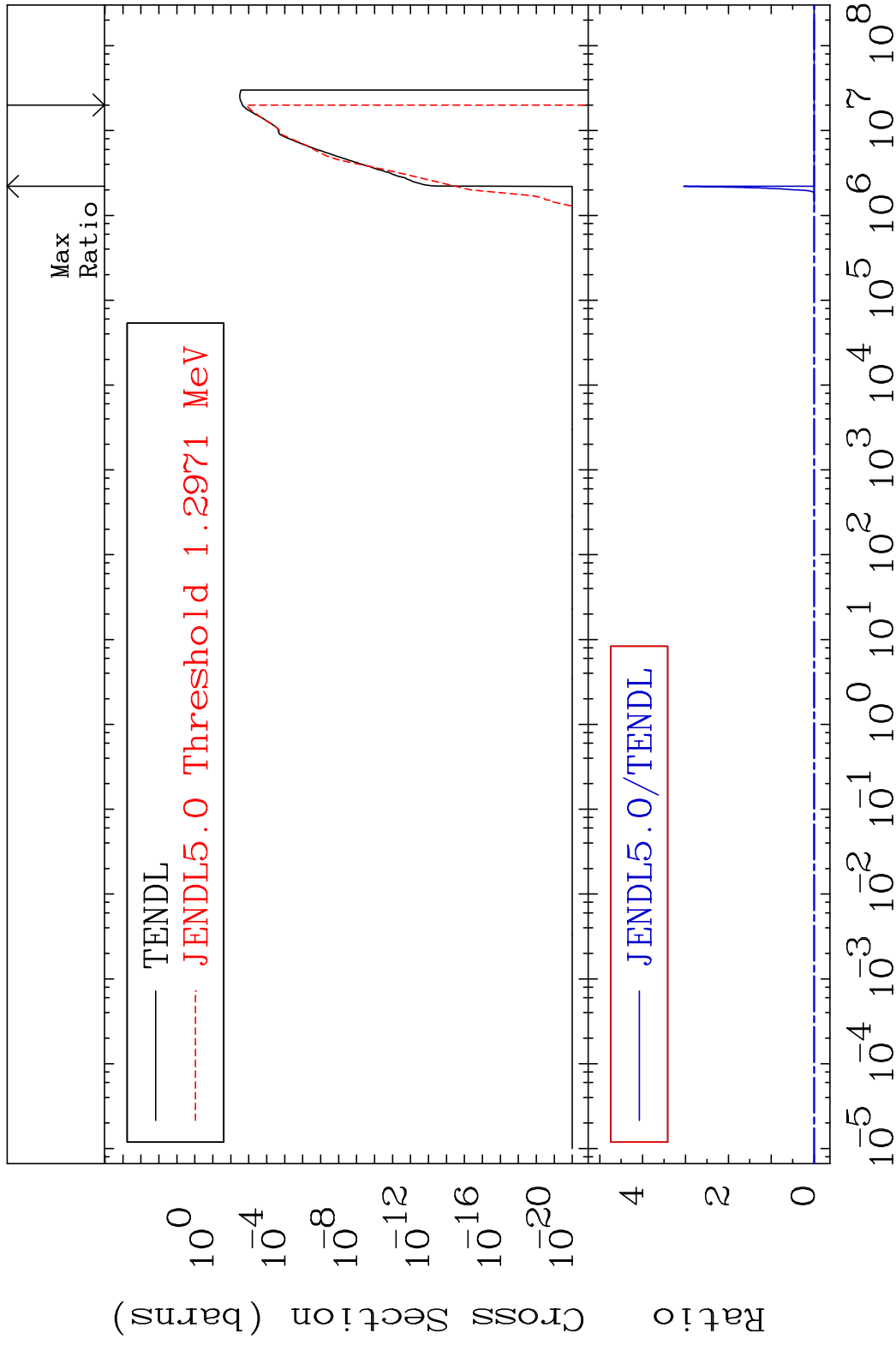


MAT 6419

(n, n')  $\alpha$

64-Gd-150

Cross Section -100.0 To 9999. %

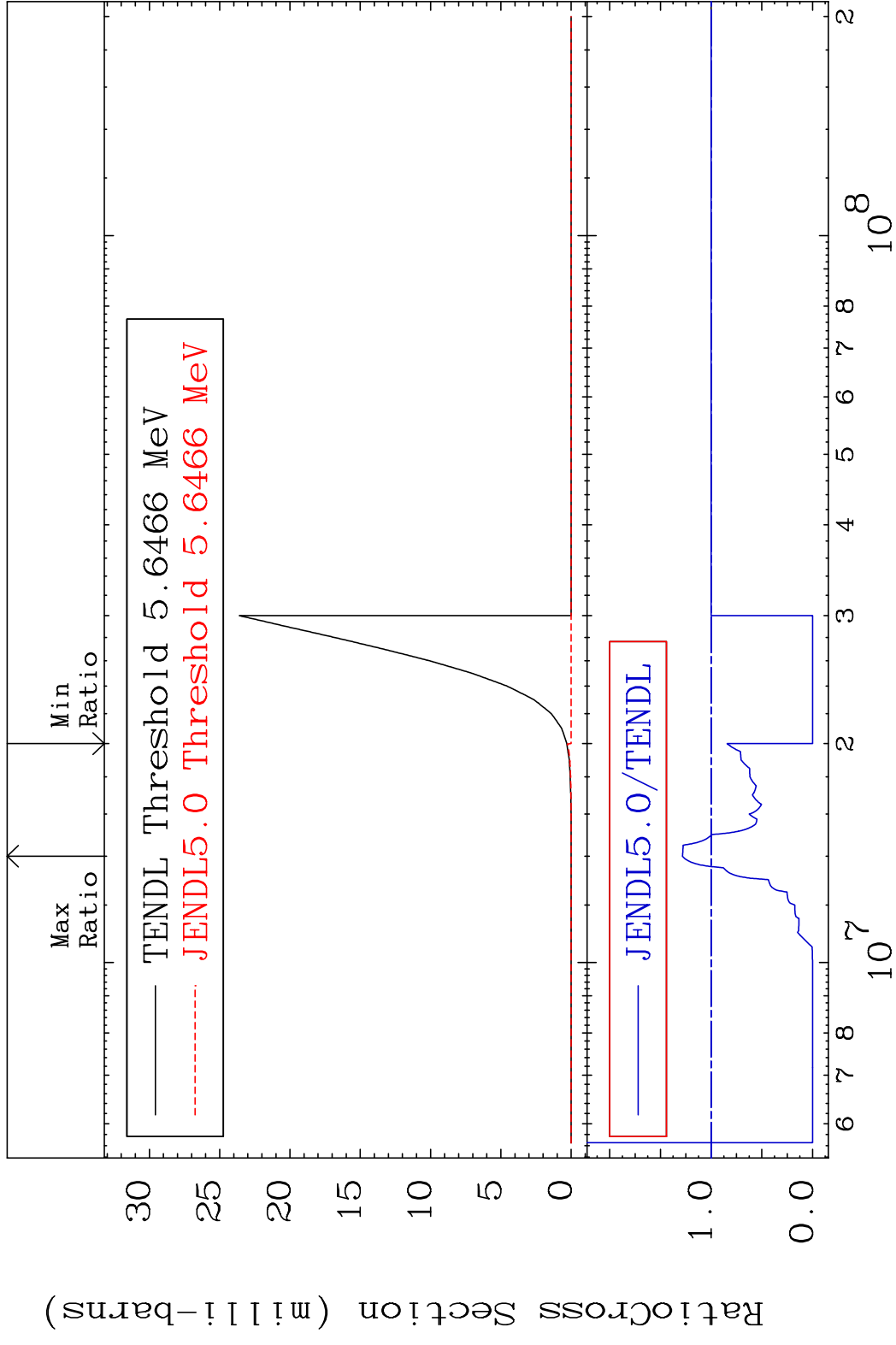


7

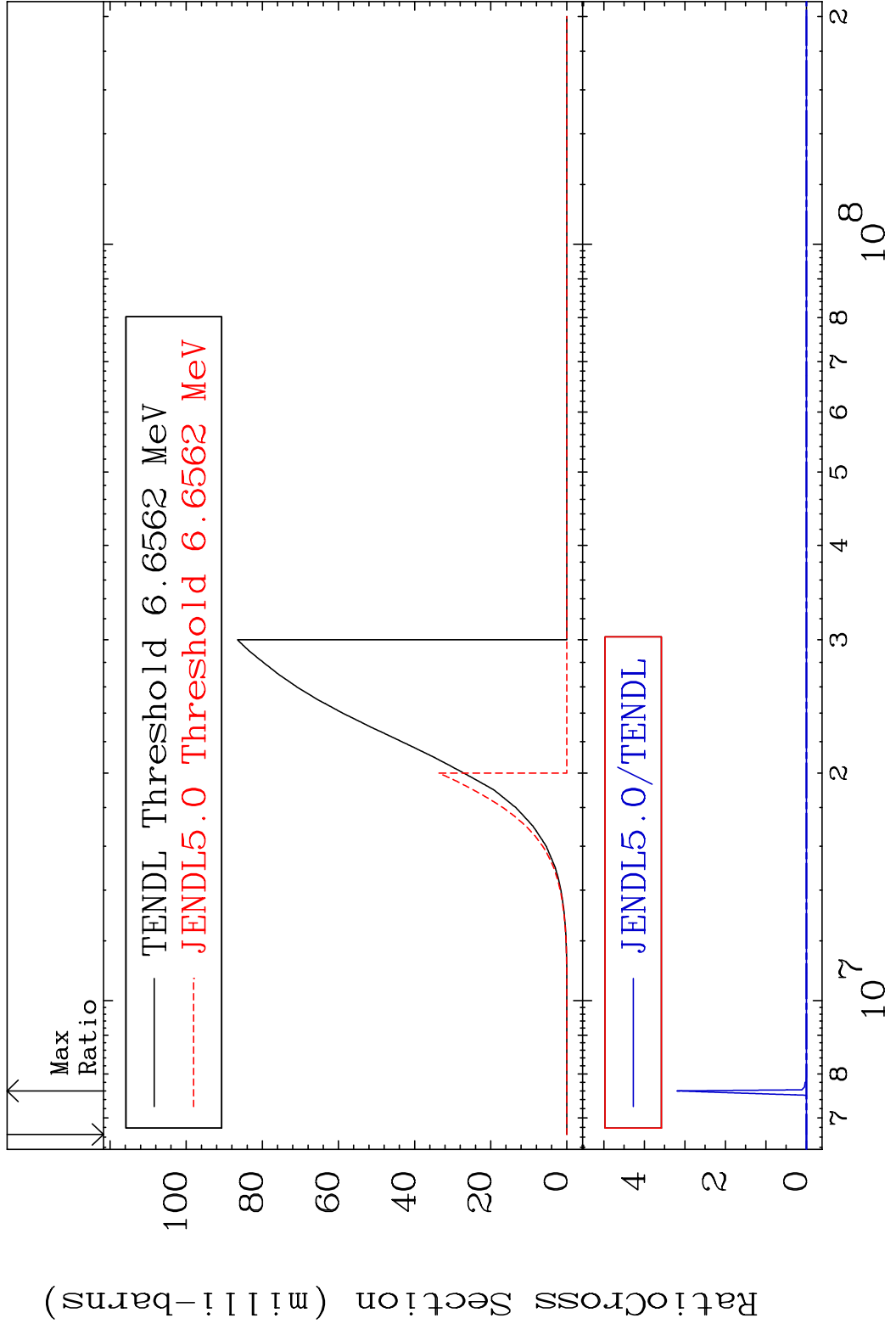
Incident Energy (eV)

64-Gd-150

MAT 6419 (n,2n)  $\alpha$  64-Gd-150  
 Cross Section -100.0 To 28.40 %



MAT 6419 (n, n') p 64-Gd-150  
 Cross Section -100.0 To 9999. %



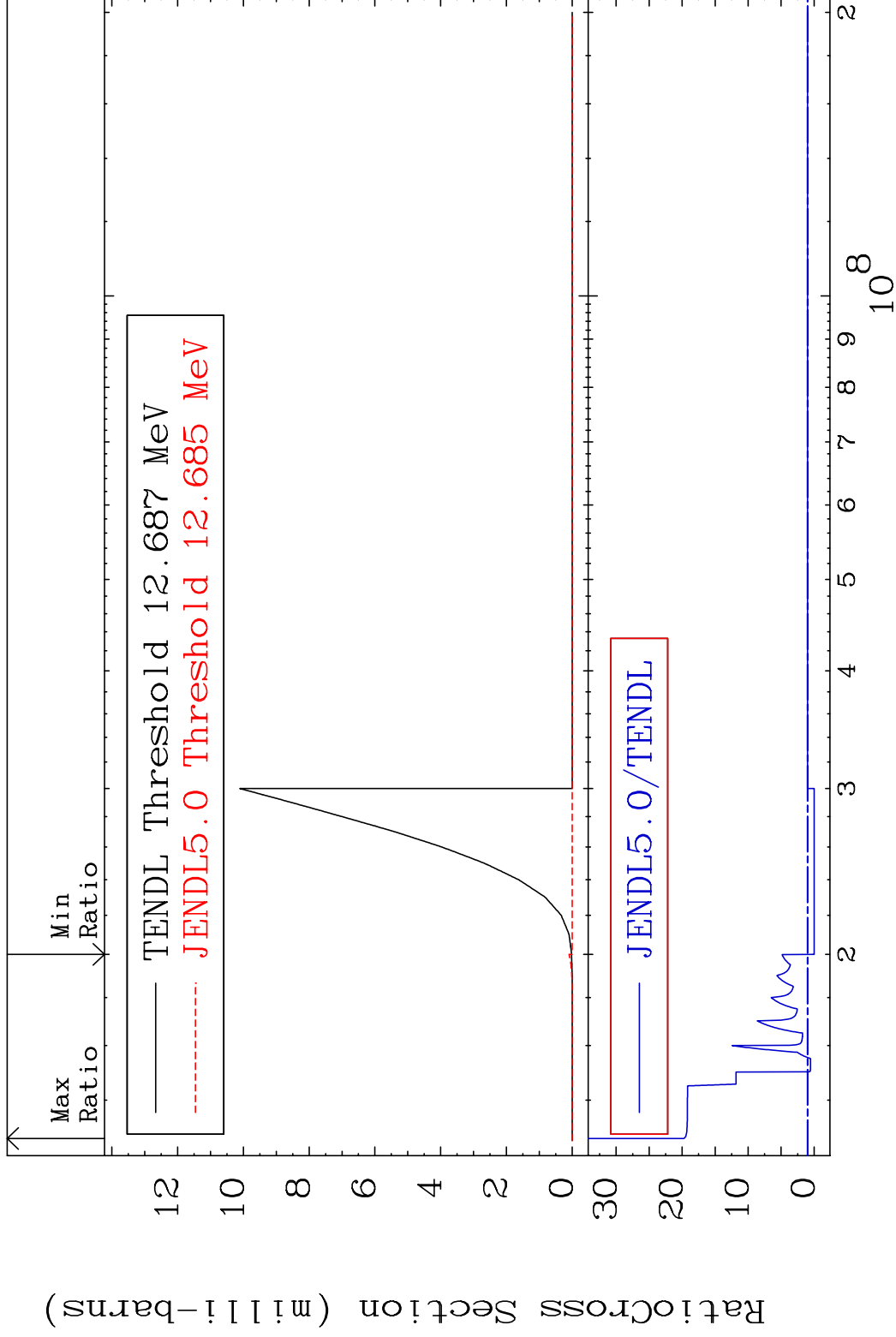
9 9 Incident Energy (eV) 64-Gd-150

MAT 6419

(n, n') d

64-Gd-150

Cross Section -100.0 To 1877. %



10

Incident Energy (eV)

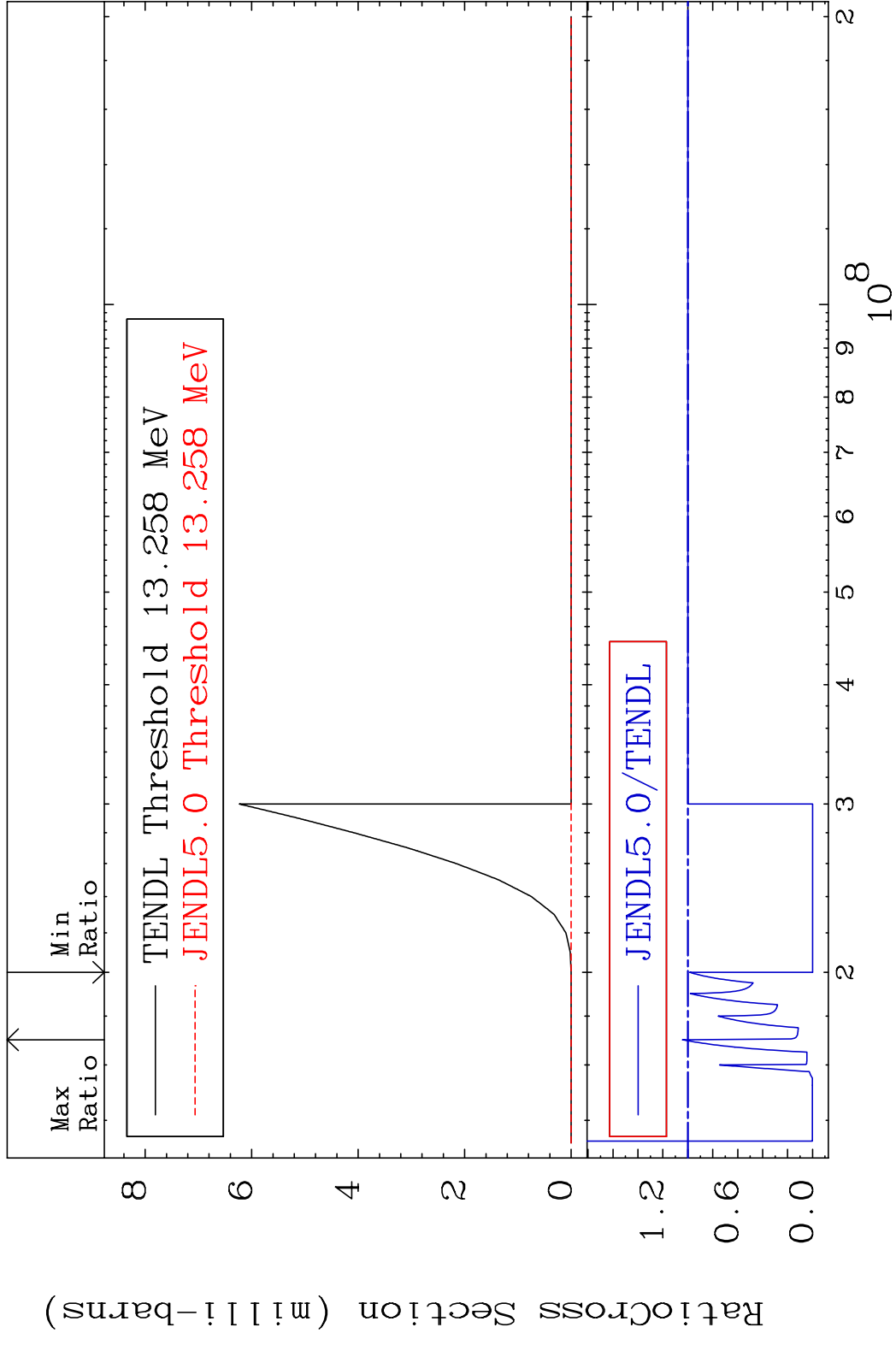
64-Gd-150

MAT 6419

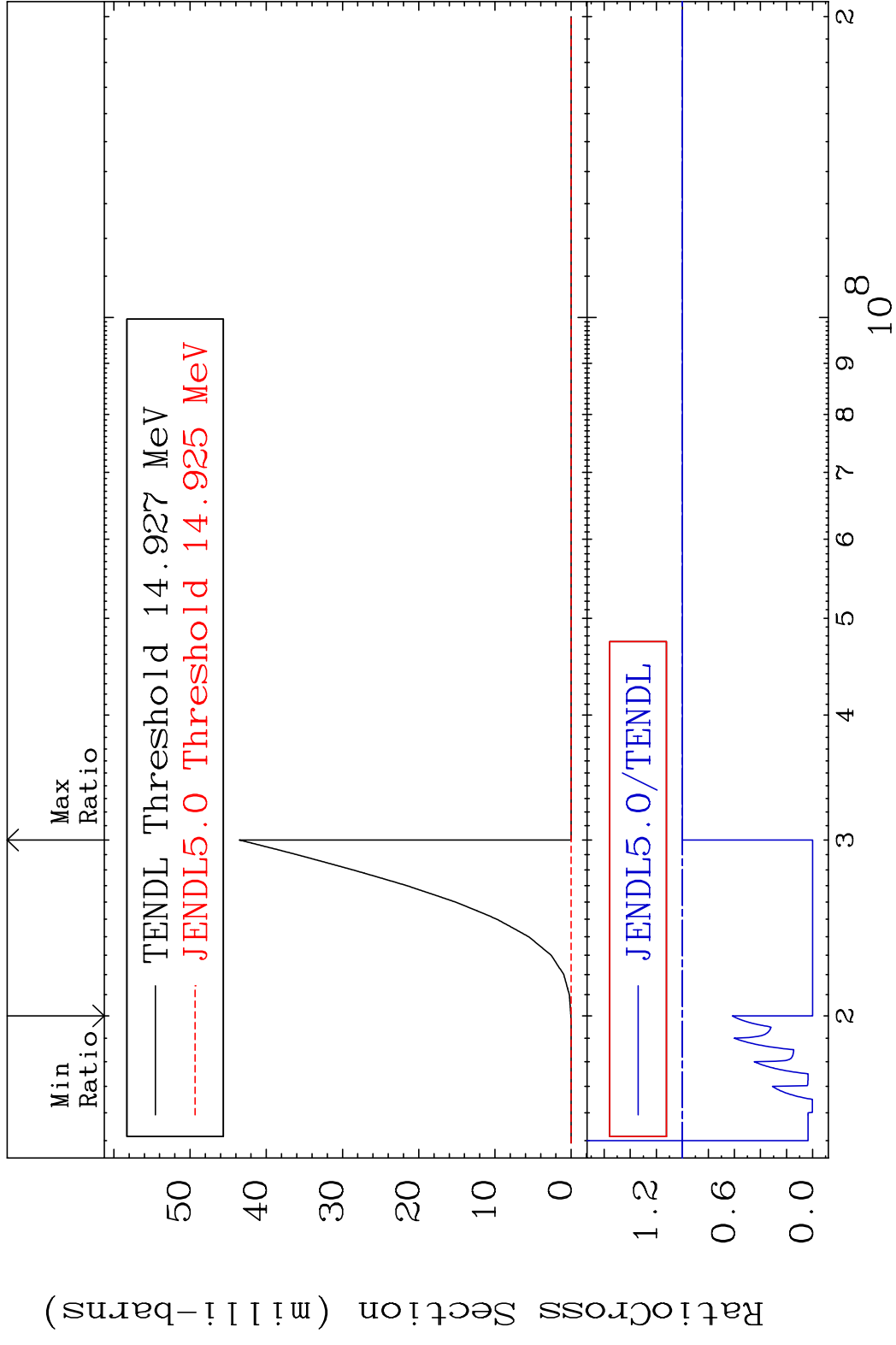
(n, n') t

64-Gd-150

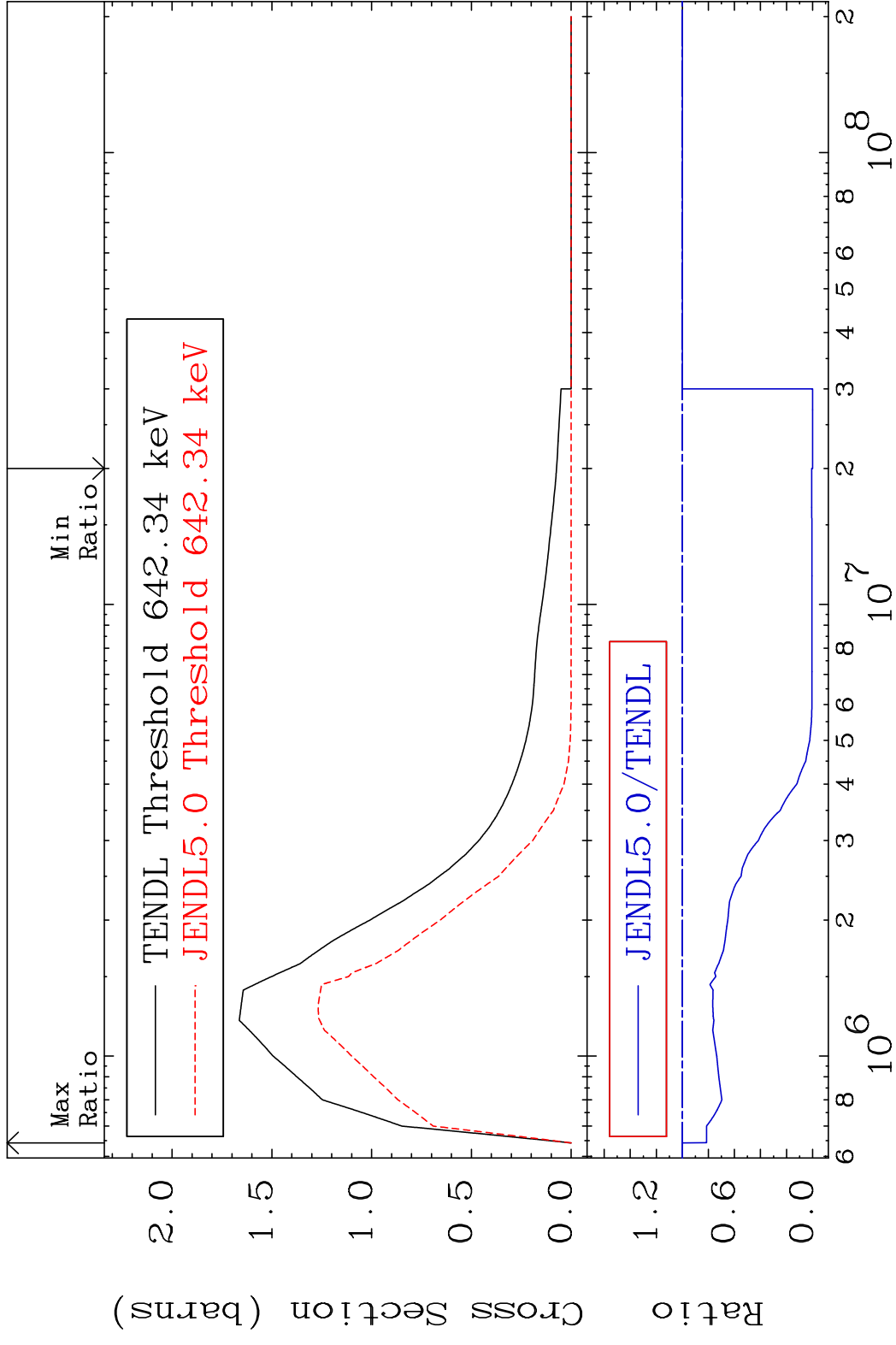
Cross Section -100.0 To 4.387 %



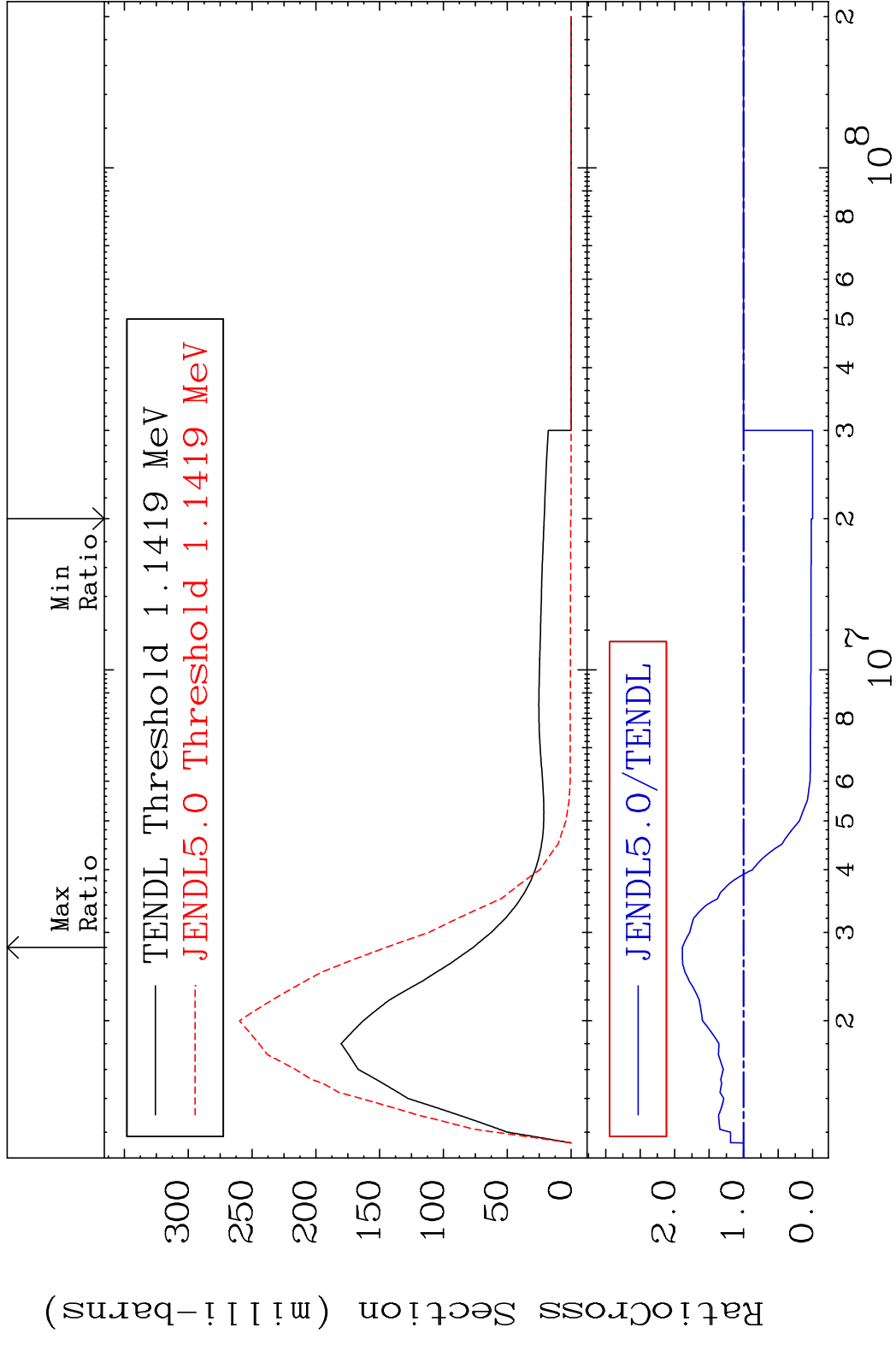
MAT 6419 (n,2n) p 64-Gd-150  
 Cross Section -100.0 To 0.000 %



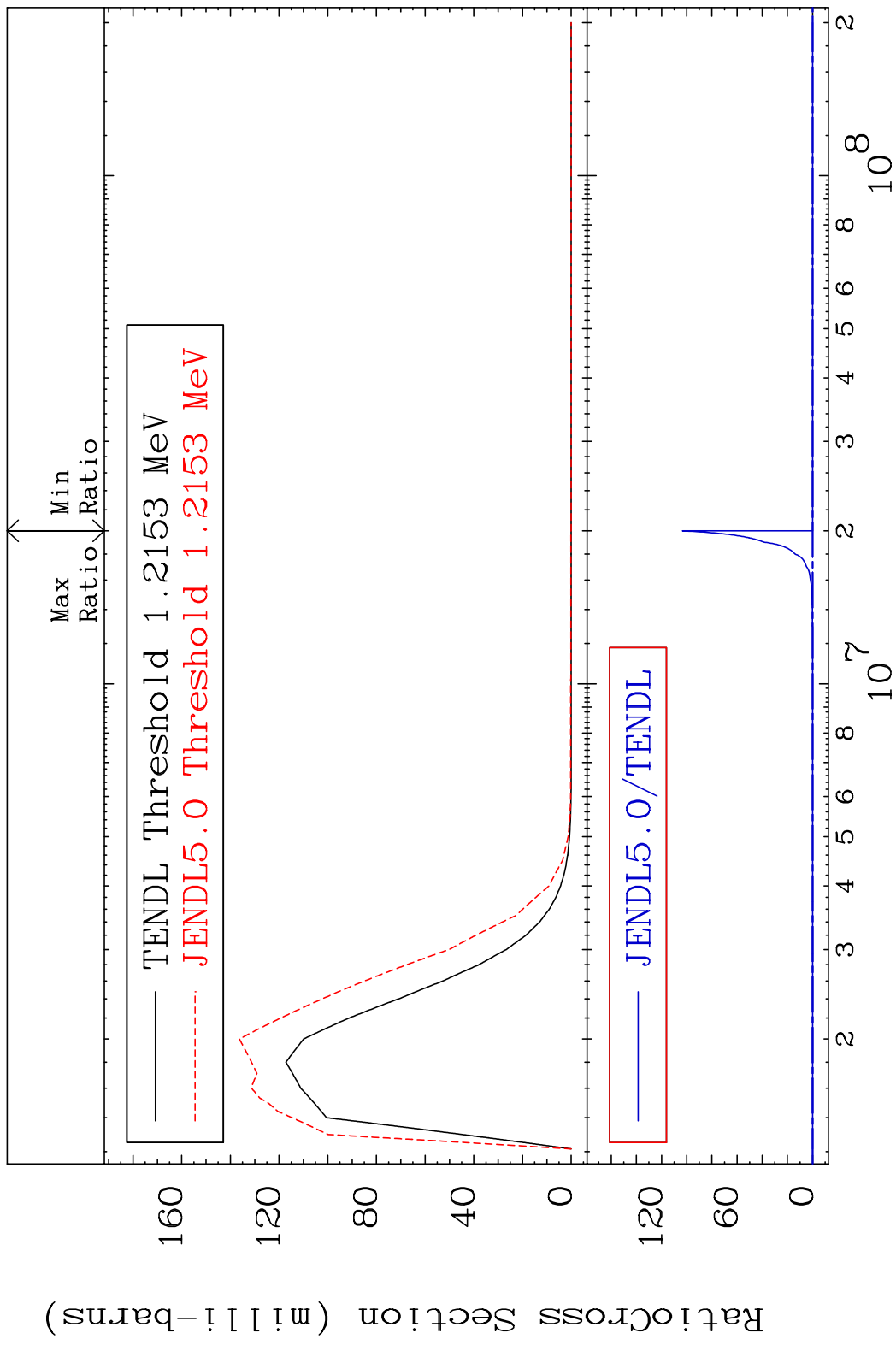
MAT 6419 MT= 51 (n, n') Level 64-Gd-150  
 Cross Section -100.0 To 0.000 %



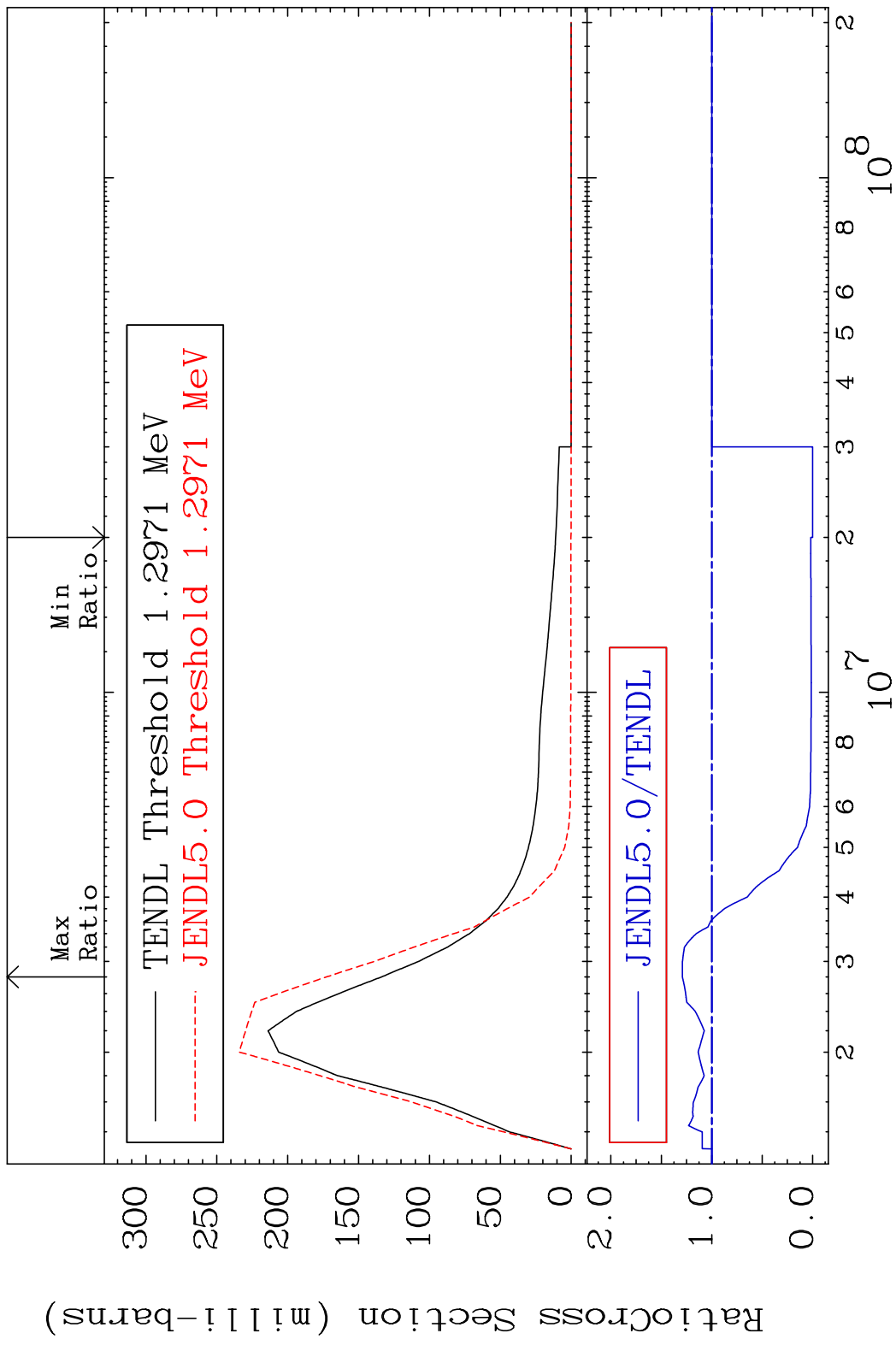
MAT 6419 MT= 52 (n, n') Level 64-Gd-150  
 Cross Section -100.0 To 88.82 %



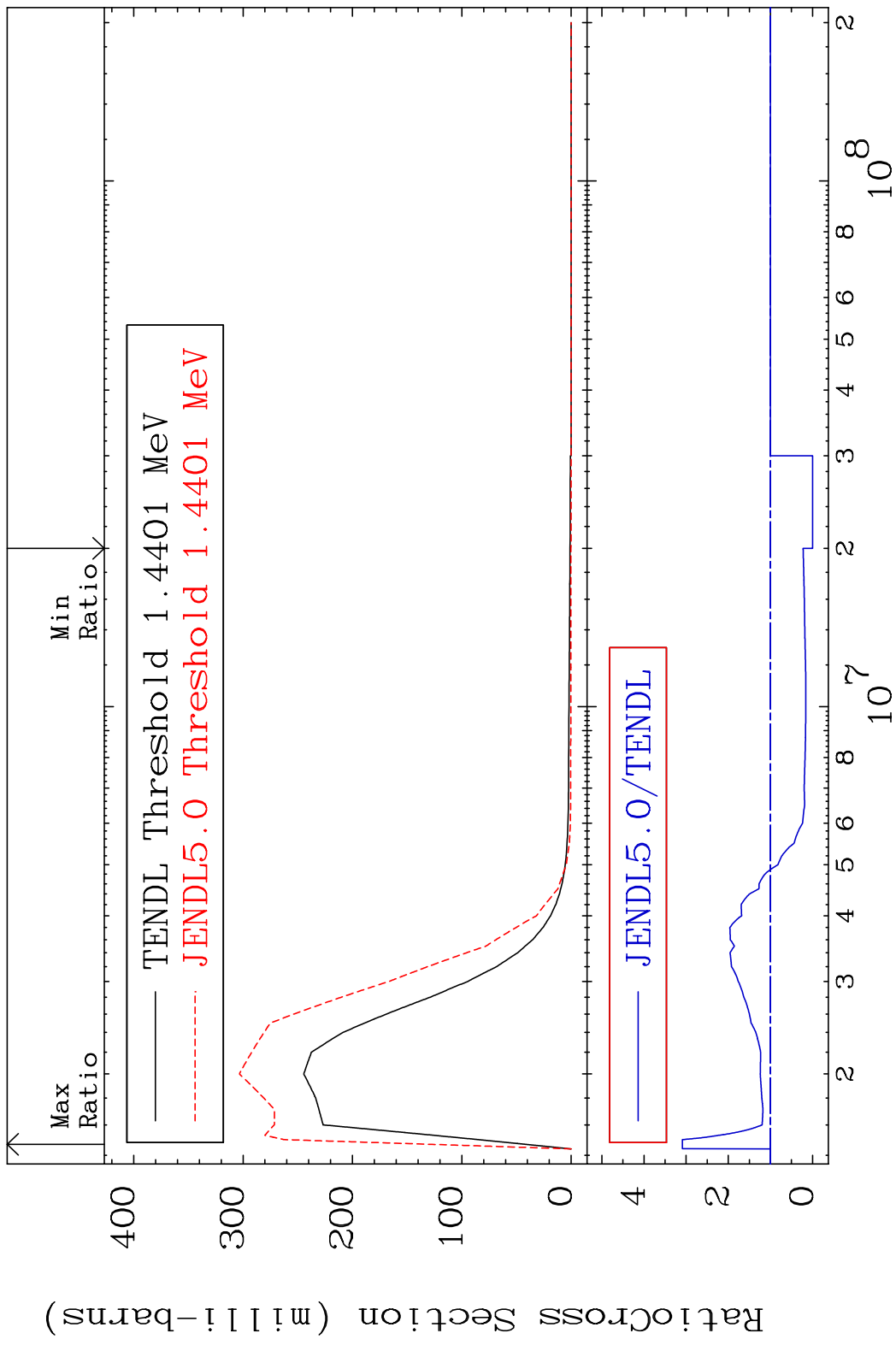
MAT 6419 MT= 53 (n, n') Level 64-Gd-150  
 Cross Section -100.0 To 9999. %



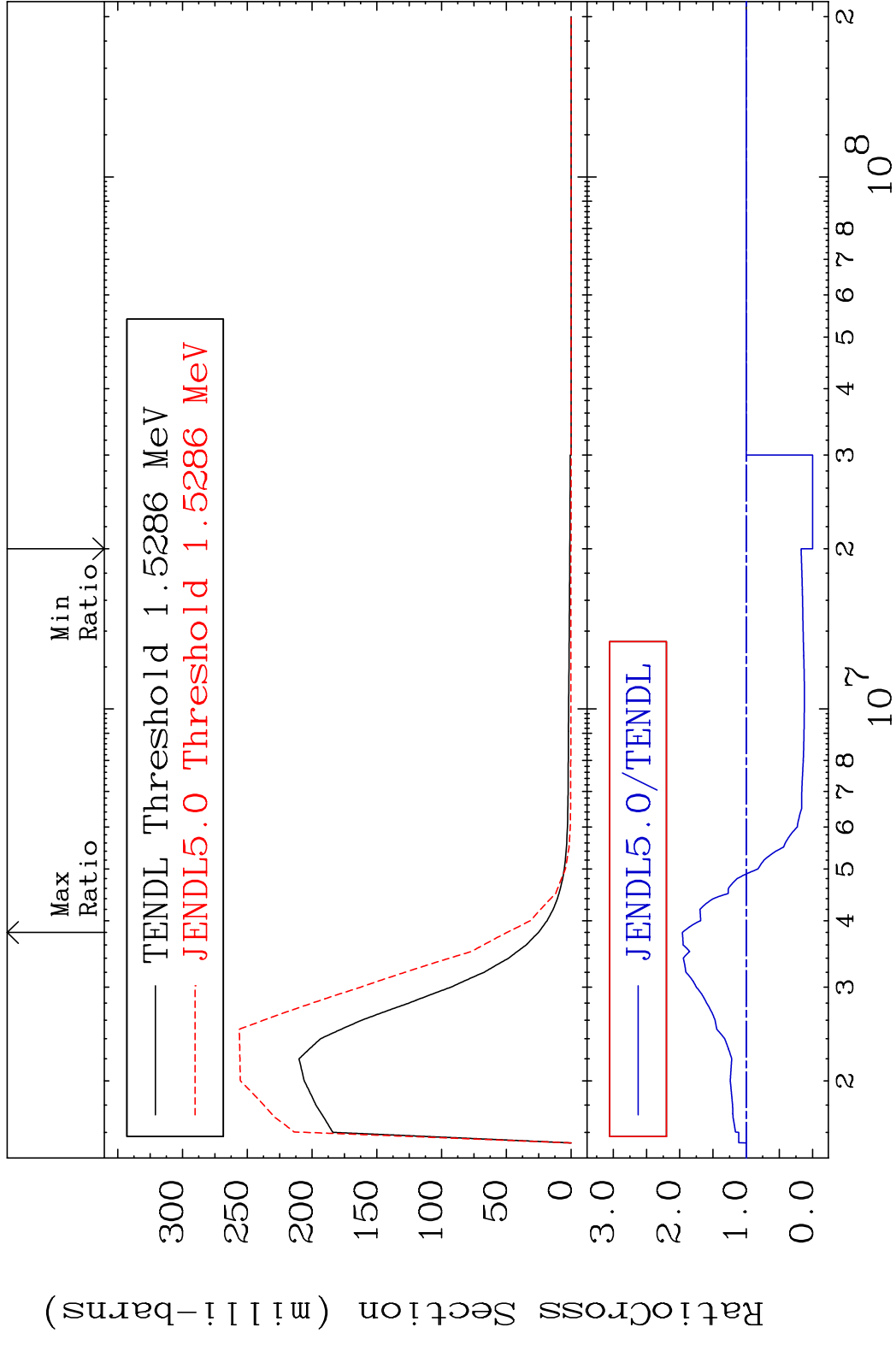
MAT 6419 MT= 54 (n, n') Level 64-Gd-150  
 Cross Section -100.0 To 29.12 %



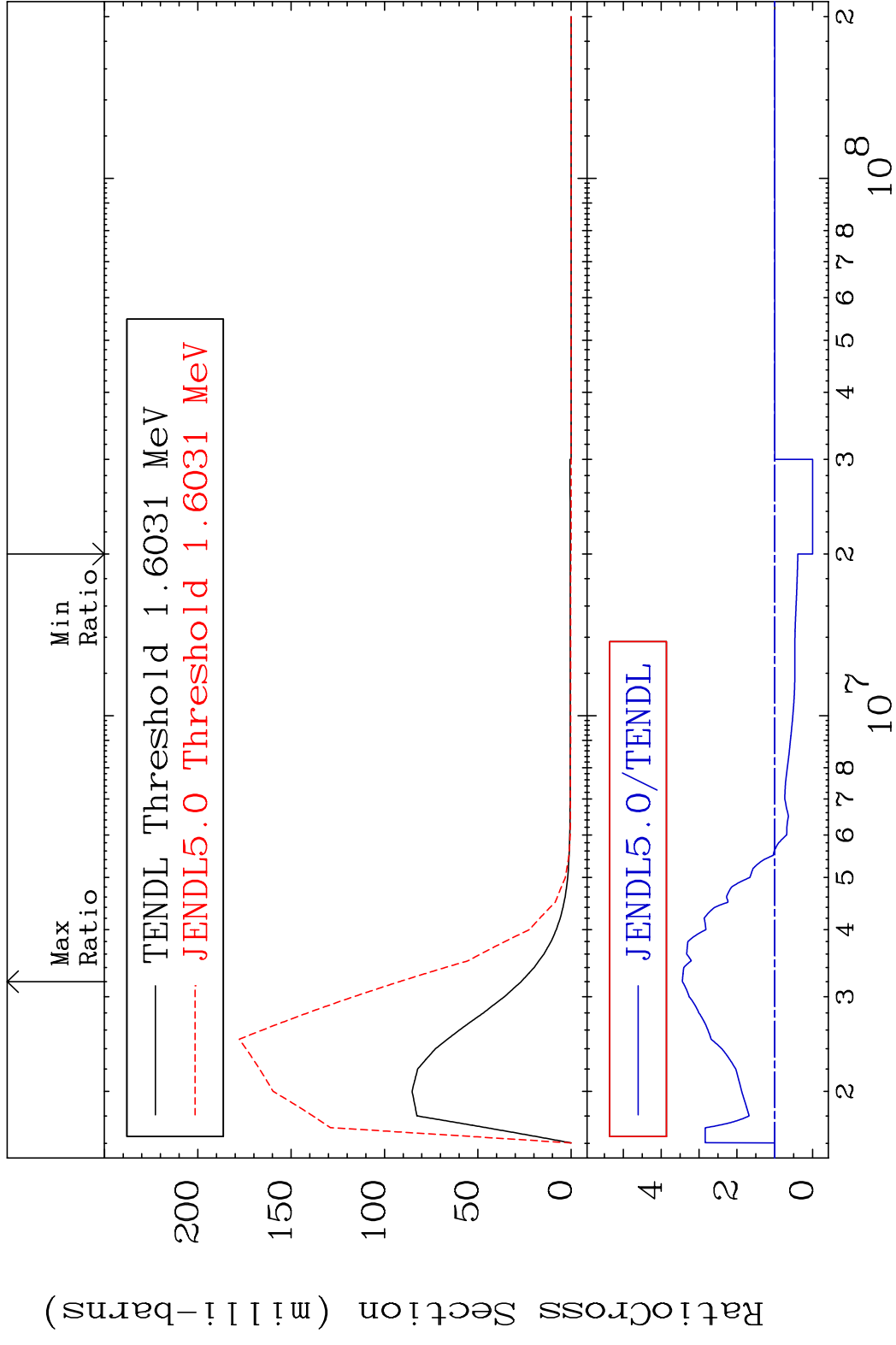
MAT 6419 MT= 55 (n, n') Level 64-Gd-150  
 Cross Section -100.0 To 208.9 %



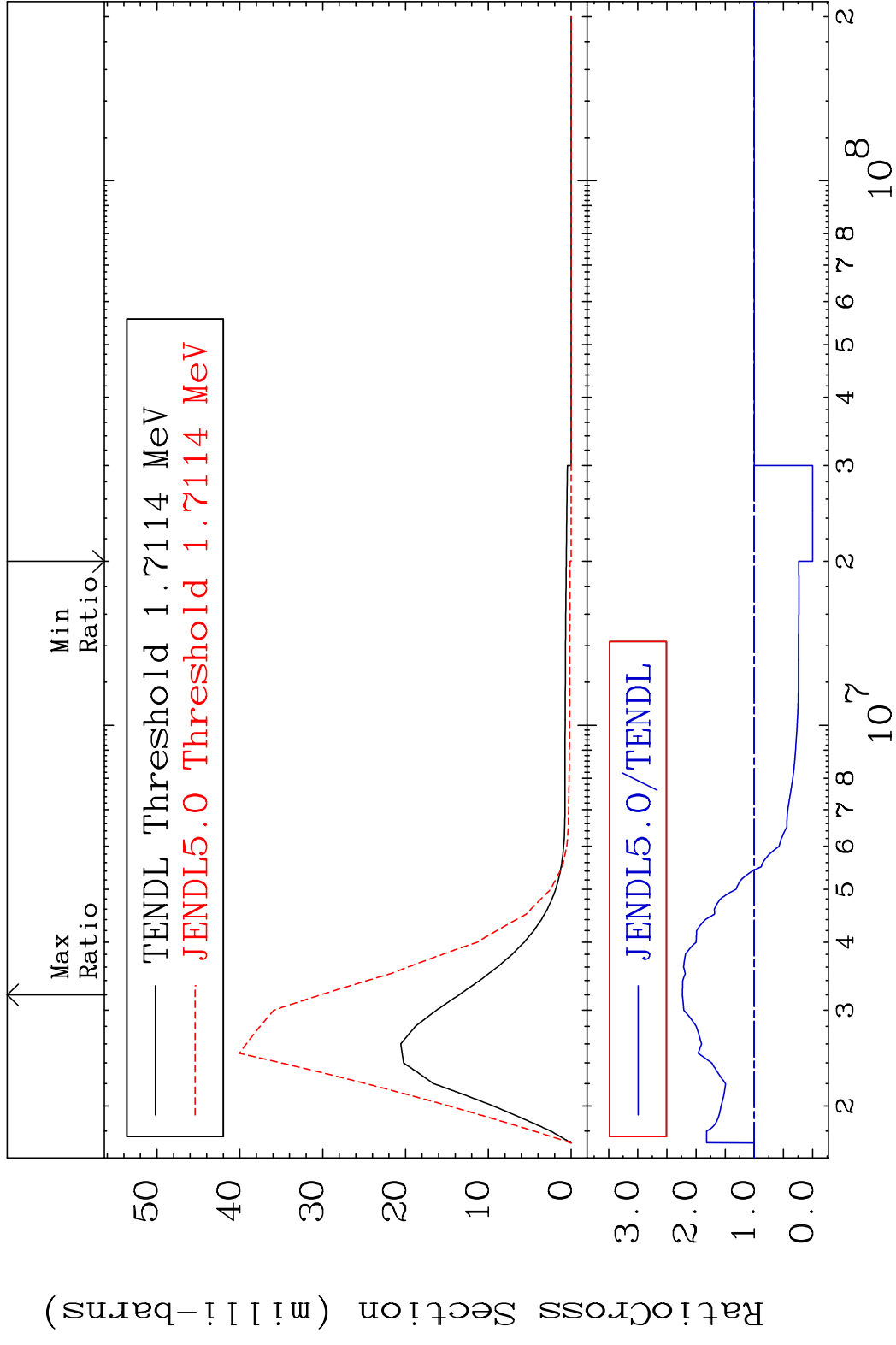
MAT 6419 MT= 56 (n, n') Level 64-Gd-150  
 Cross Section -100.0 To 96.08 %



MAT 6419 MT= 57 (n, n') Level 64-Gd-150  
 Cross Section -100.0 To 244.0 %



MAT 6419 MT= 58 (n, n') Level 64-Gd-150  
 Cross Section -100.0 To 123.5 %

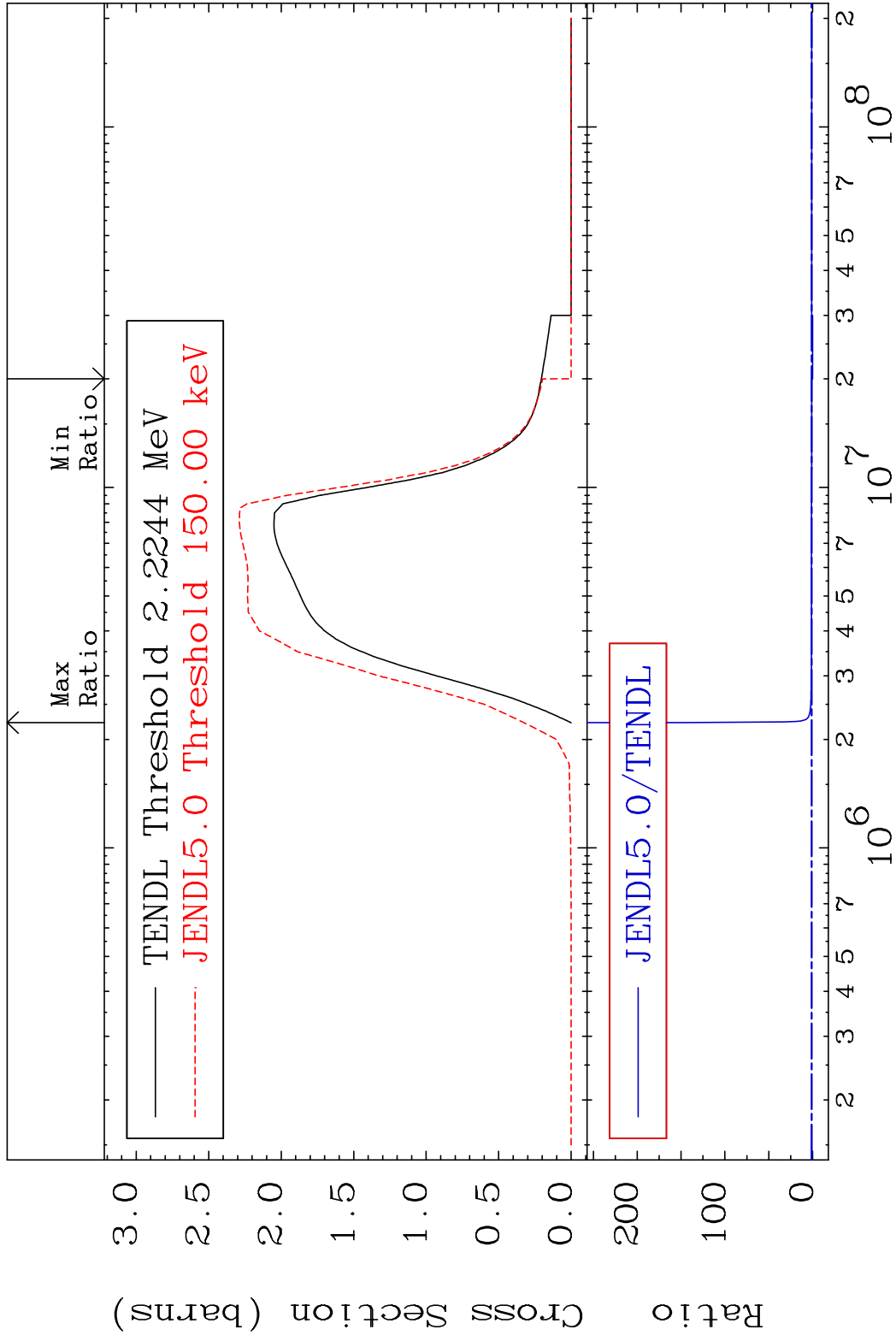


MAT 6419

(n,n') Continuum

64-Gd-150

Cross Section -100.0 To 9999. %

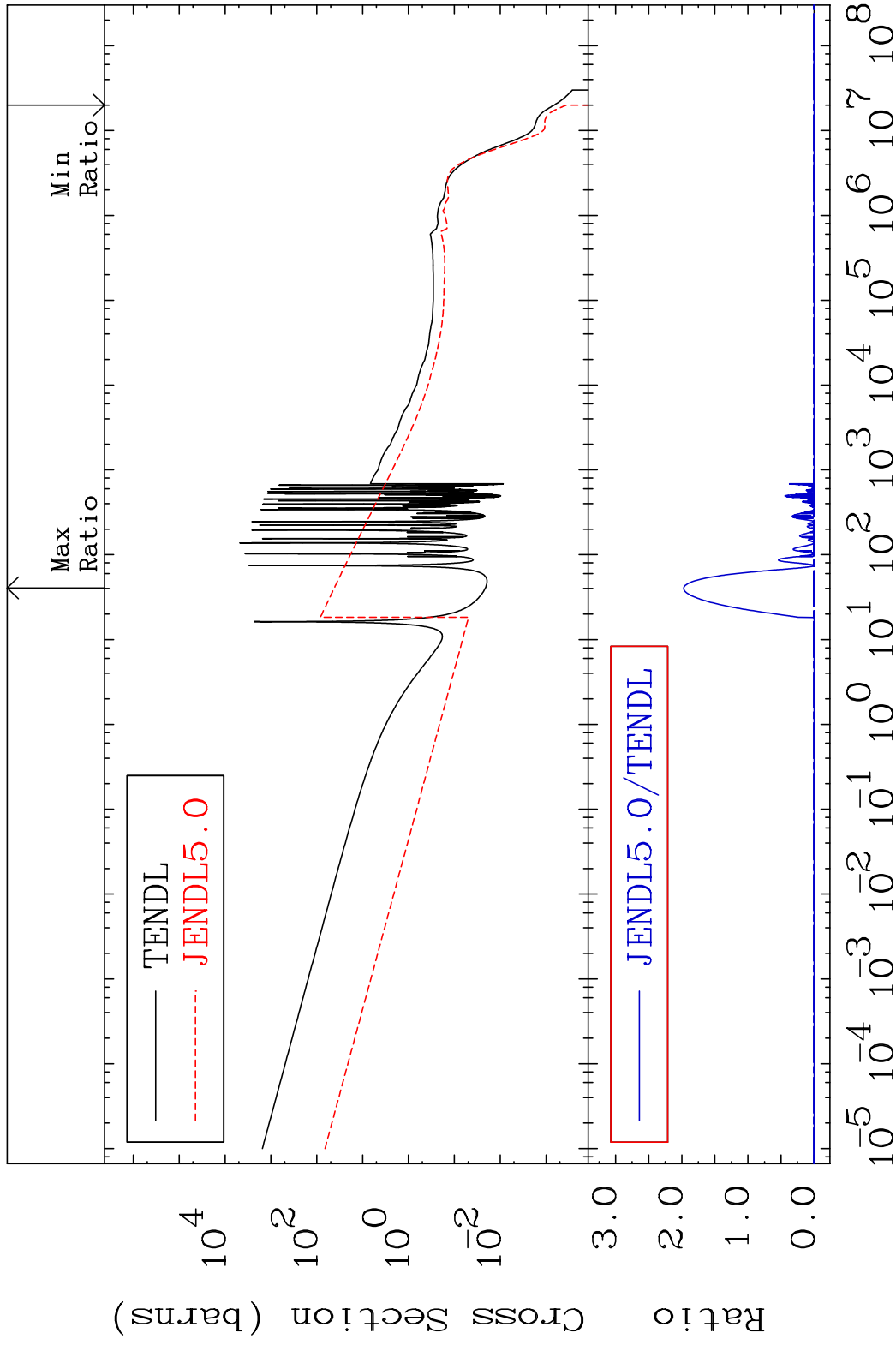


MAT 6419

(n,  $\gamma$ )

64-Gd-150

Cross Section -100.0 To 9999. %



22

Incident Energy (eV)

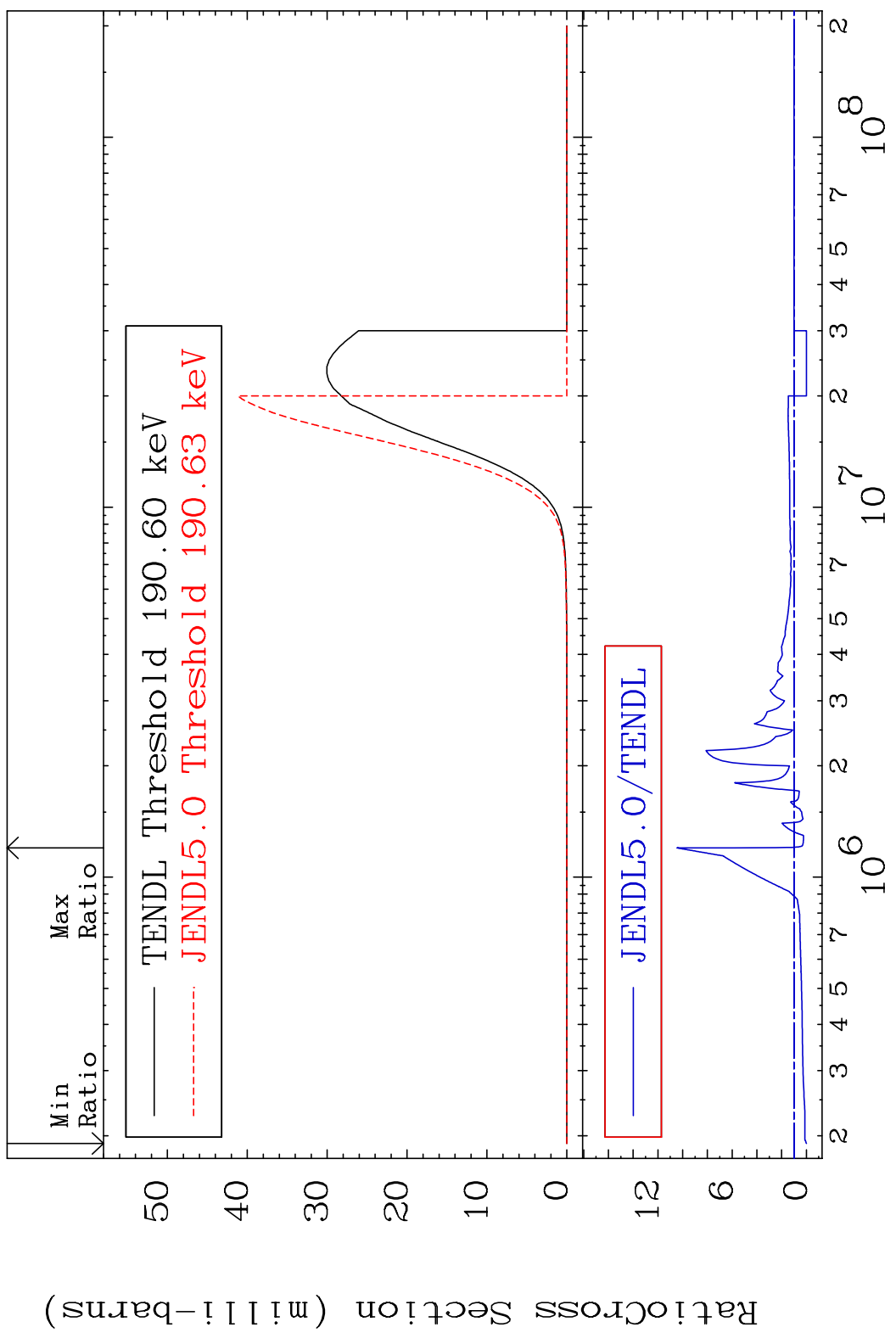
64-Gd-150

MAT 6419

(n,p)

64-Gd-150

Cross Section -100.0 To 944.3 %

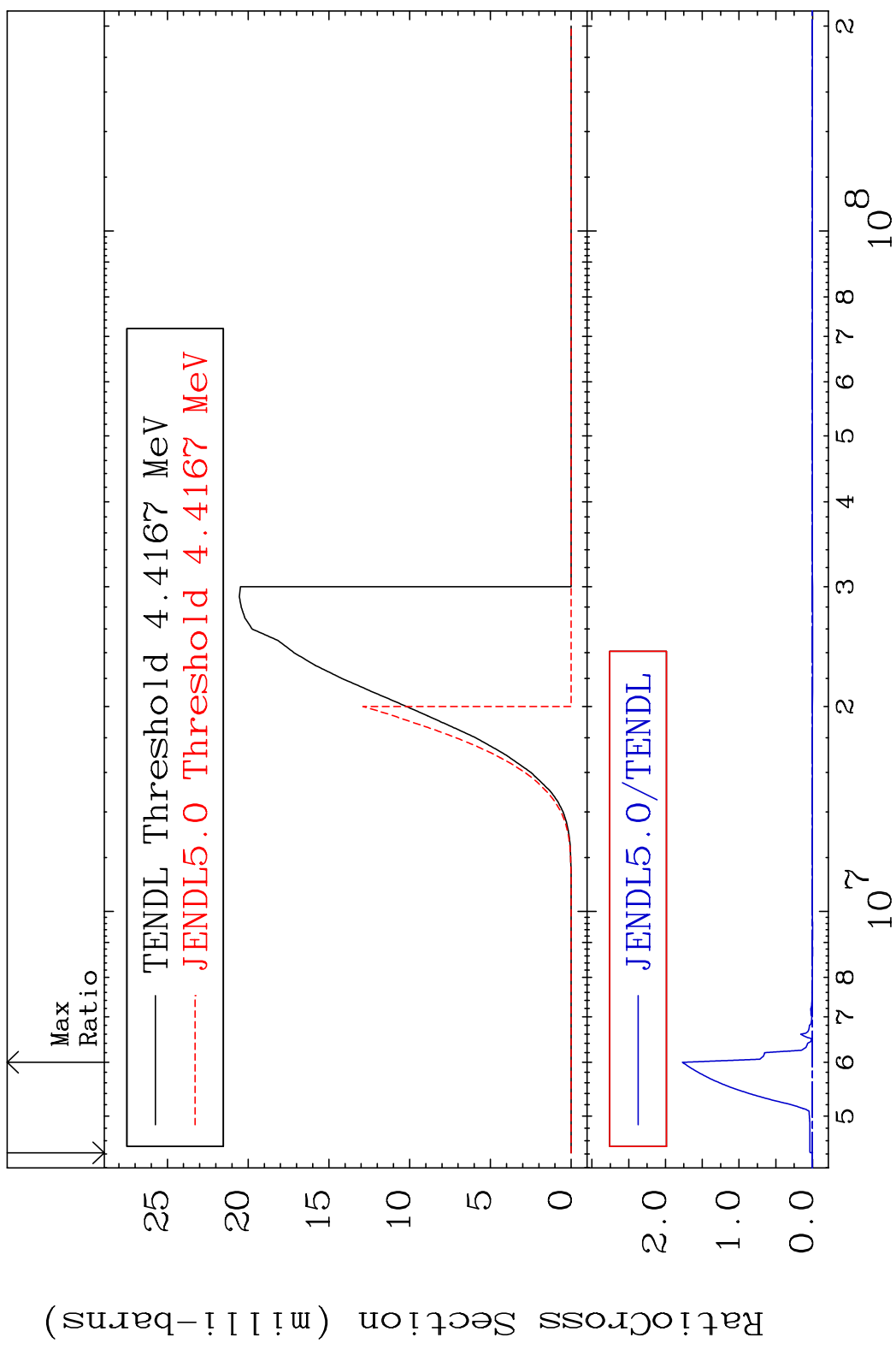


MAT 6419

(n,d)

64-Gd-150

Cross Section -100.0 To 9999. %

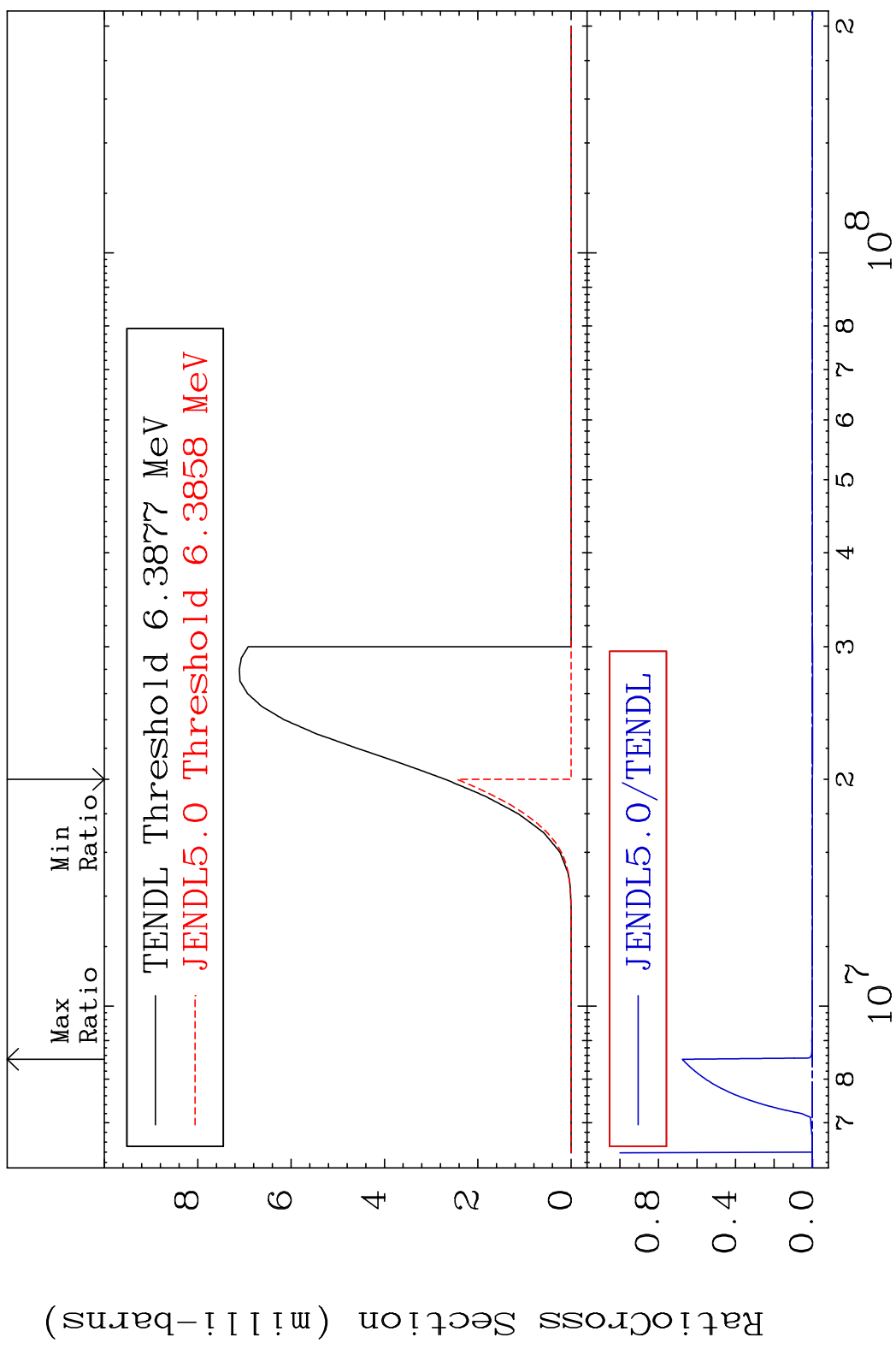


MAT 6419

(n, t)

64-Gd-150

Cross Section -100.0 To 9999. %

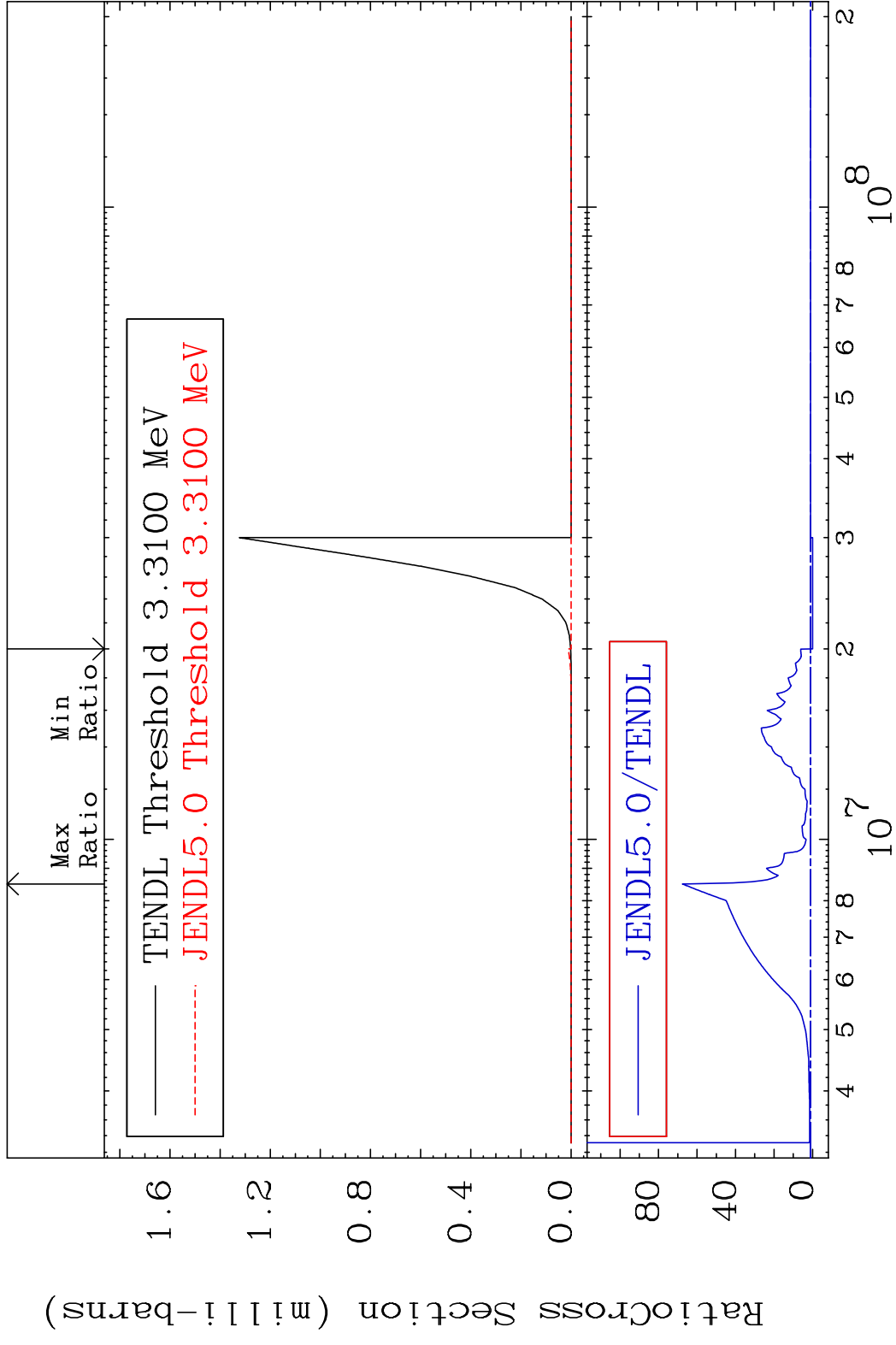


MAT 6419

(n, He-3)

64-Gd-150

Cross Section -100.0 To 6662. %

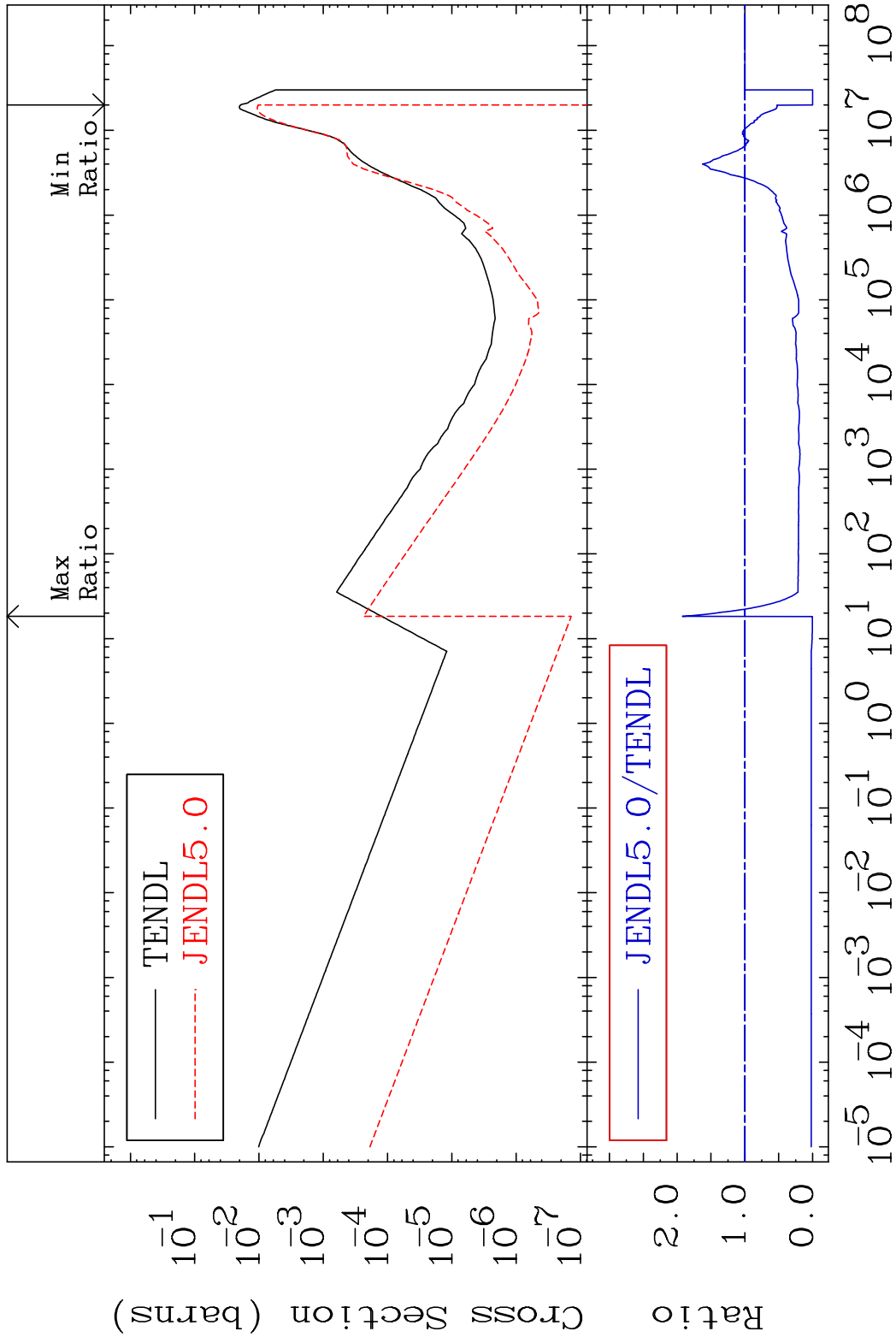


MAT 6419

(n,  $\alpha$ )

64-Gd-150

Cross Section -100.0 To 92.32 %



27

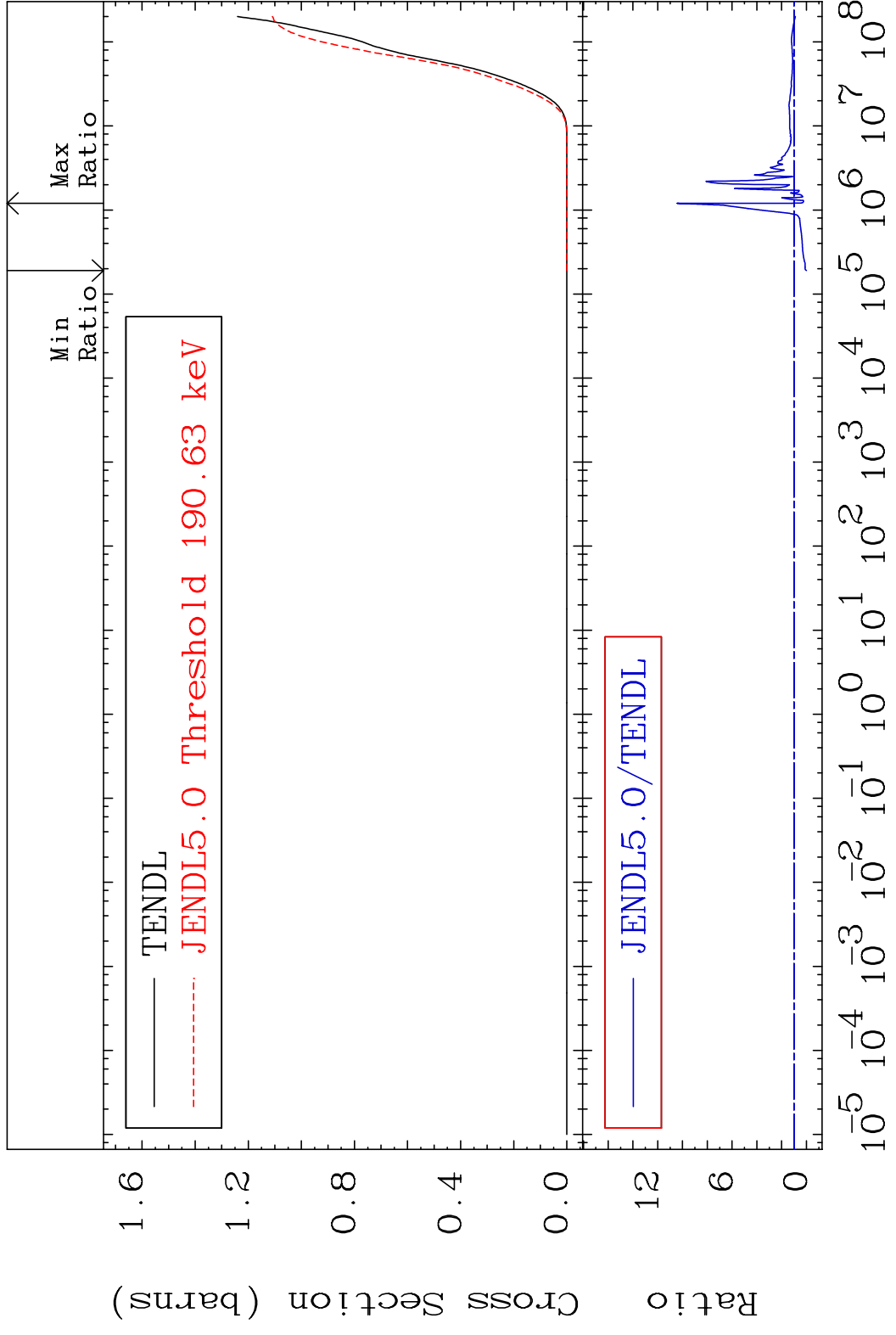
Incident Energy (eV)

64-Gd-150

MAT 6419

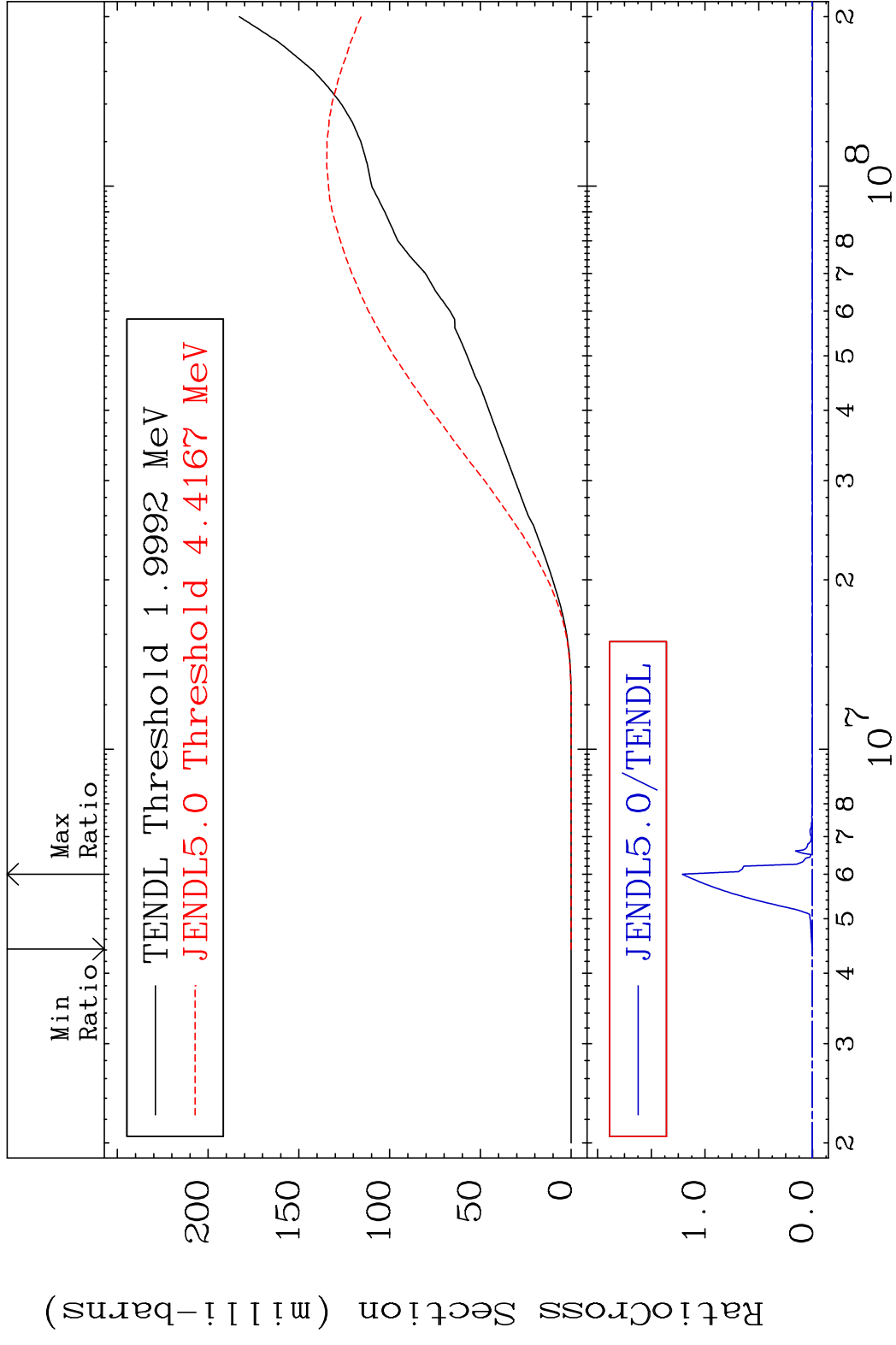
Hydrogen Production  
Cross Section -100.0 To 943.1 %

64-Gd-150



MAT 6419

Deuterium Production 64-Gd-150  
Cross Section -100.0 To 9999. %

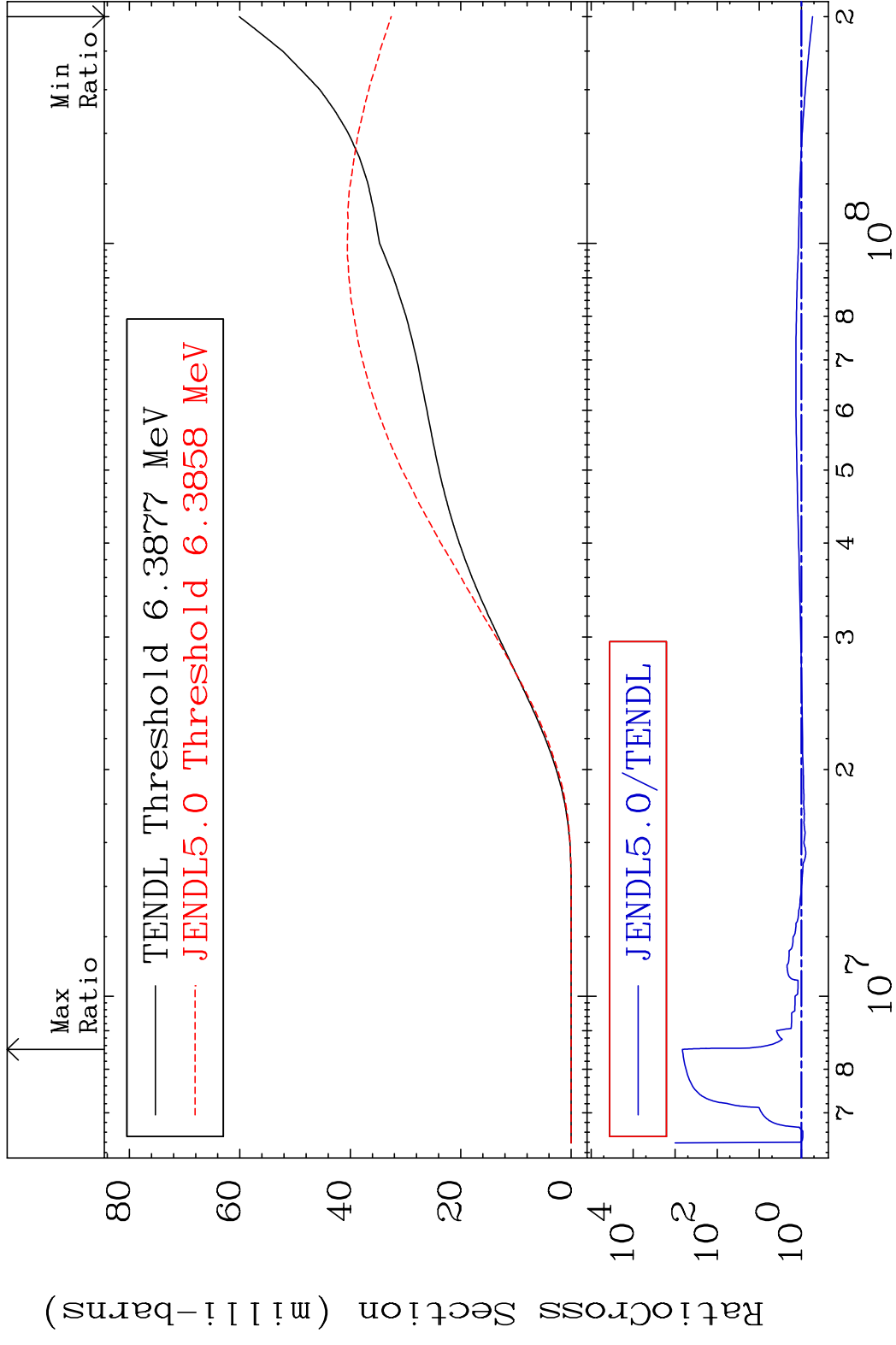


MAT 6419

Tritium Production

64-Gd-150

Cross Section -45.76 To 9999. %

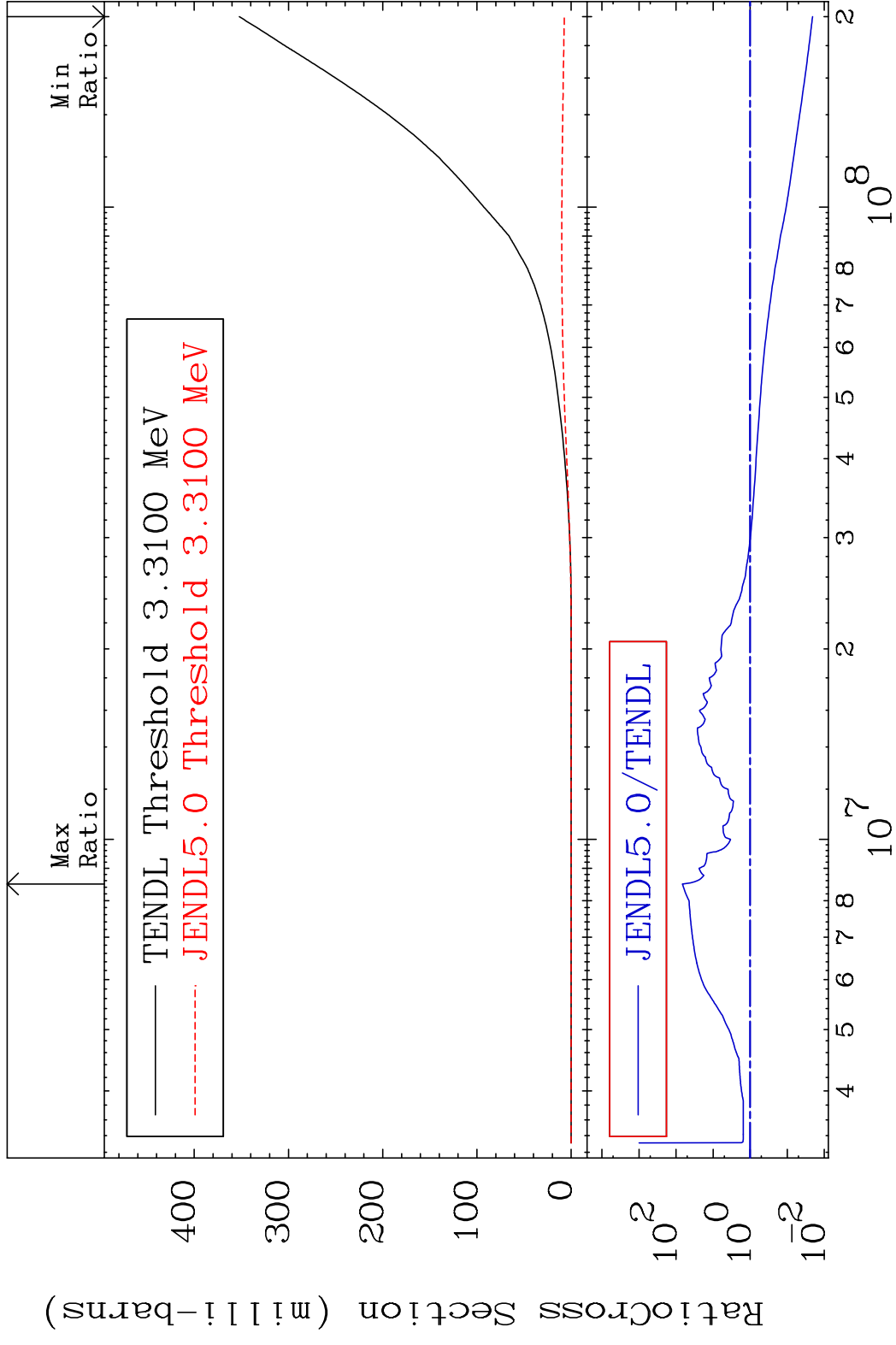


30

Incident Energy (eV)

64-Gd-150

MAT 6419 He-3 Production 64-Gd-150  
 Cross Section -97.93 To 6662. %

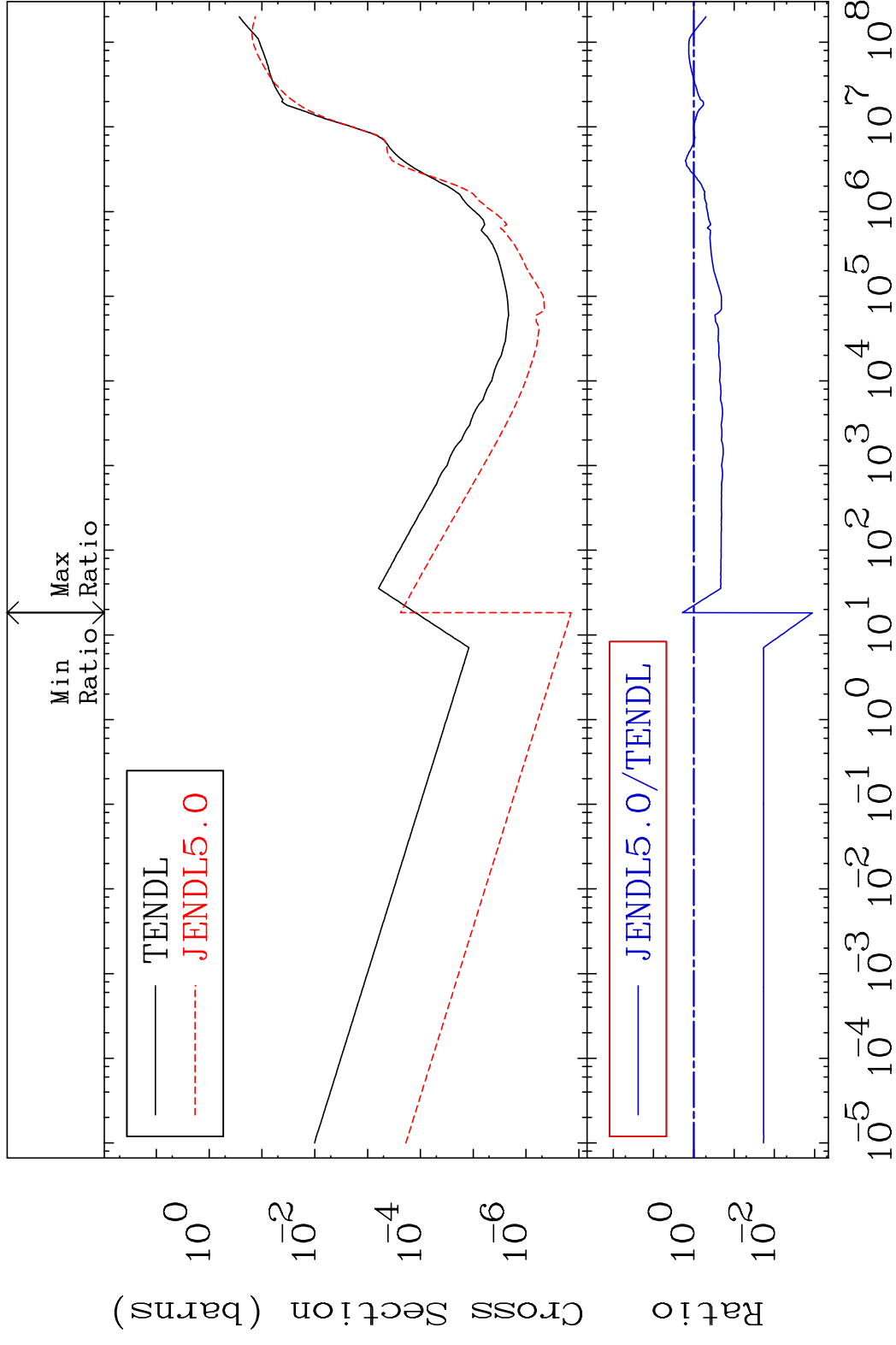


MAT 6419

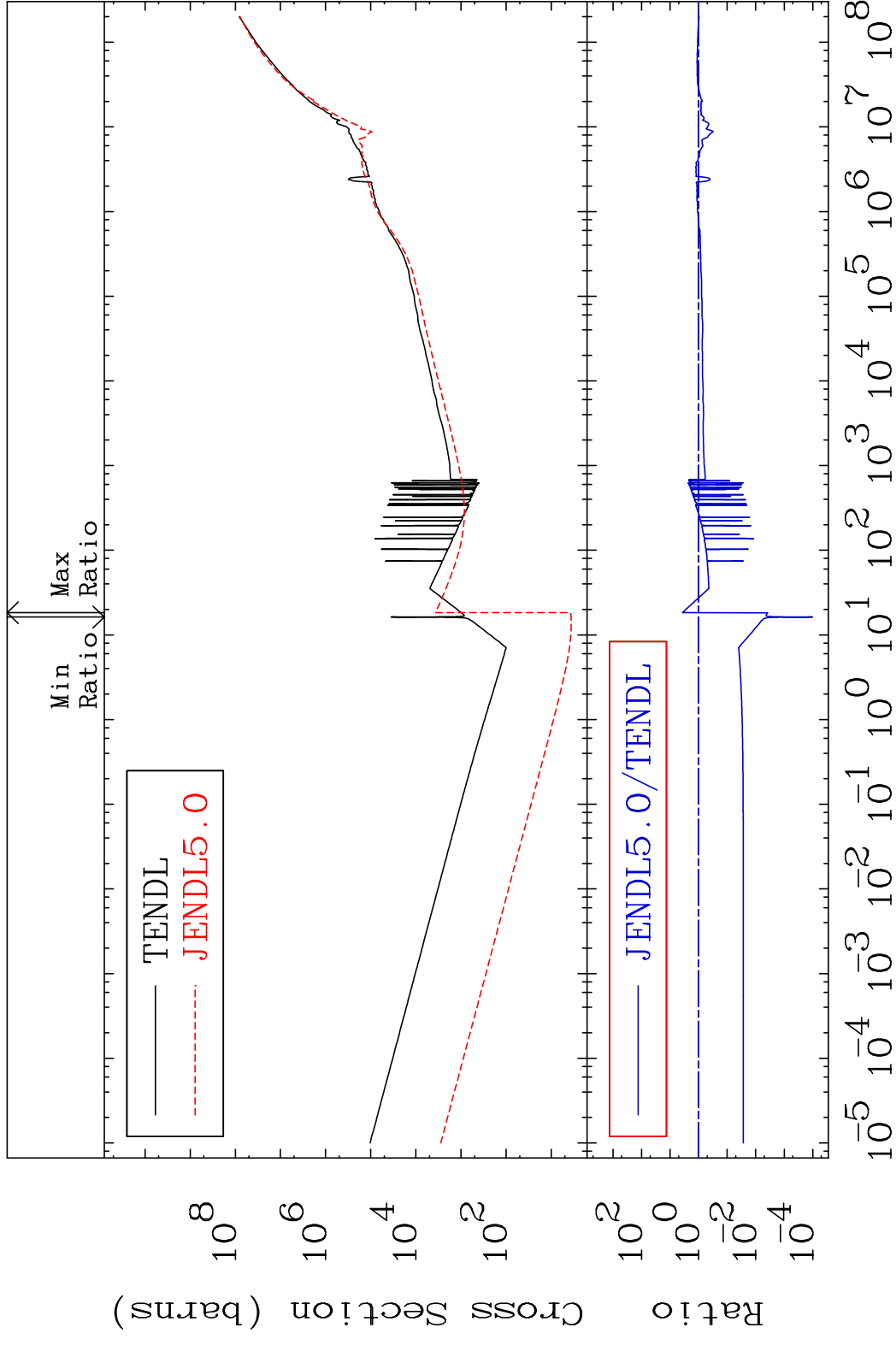
He-4 Production

64-Gd-150

Cross Section -99.89 To 92.32 %

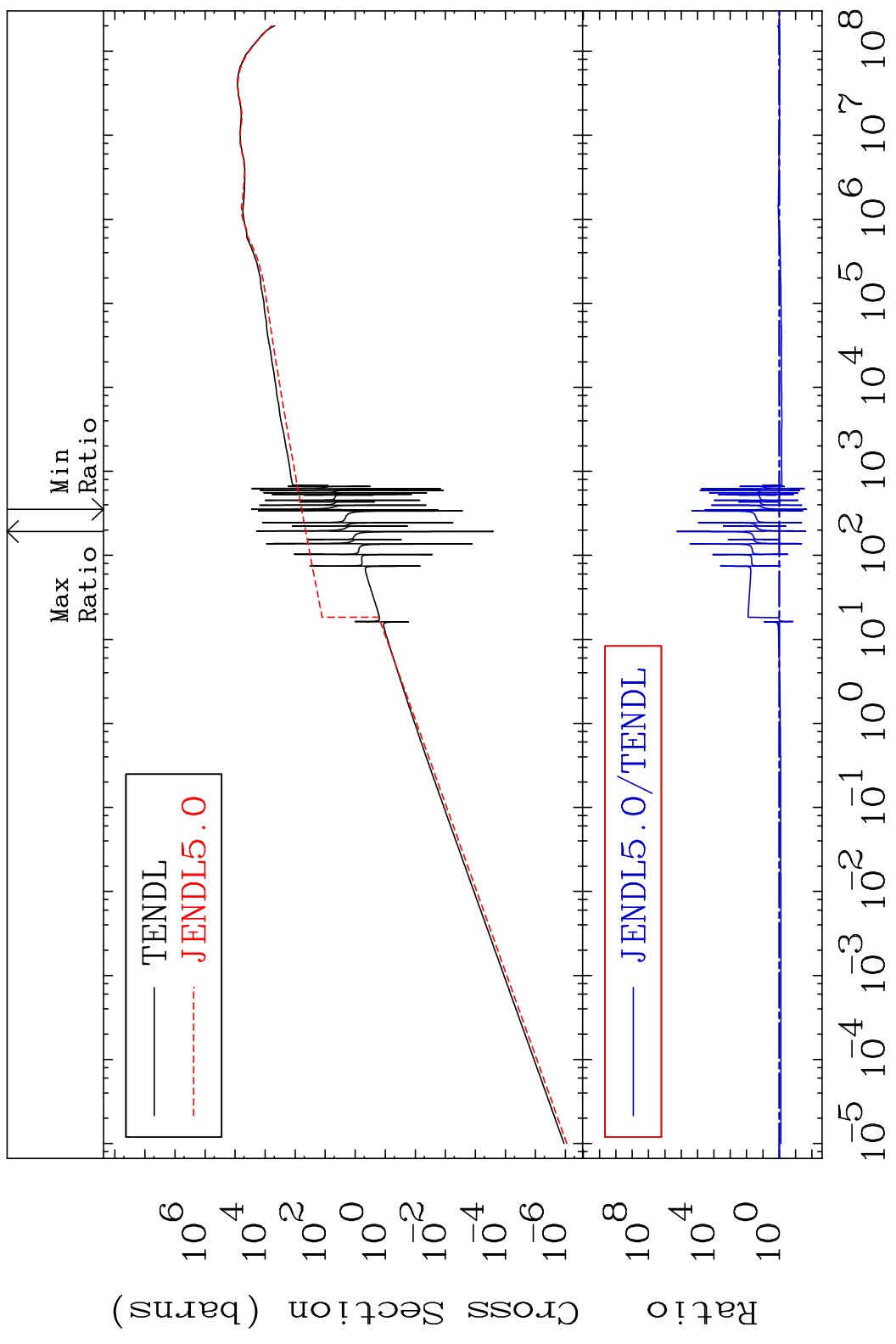


MAT 6419 Kerma total (eV-barns) 64-Gd-150  
 Cross Section -99.99 To 271.8 %

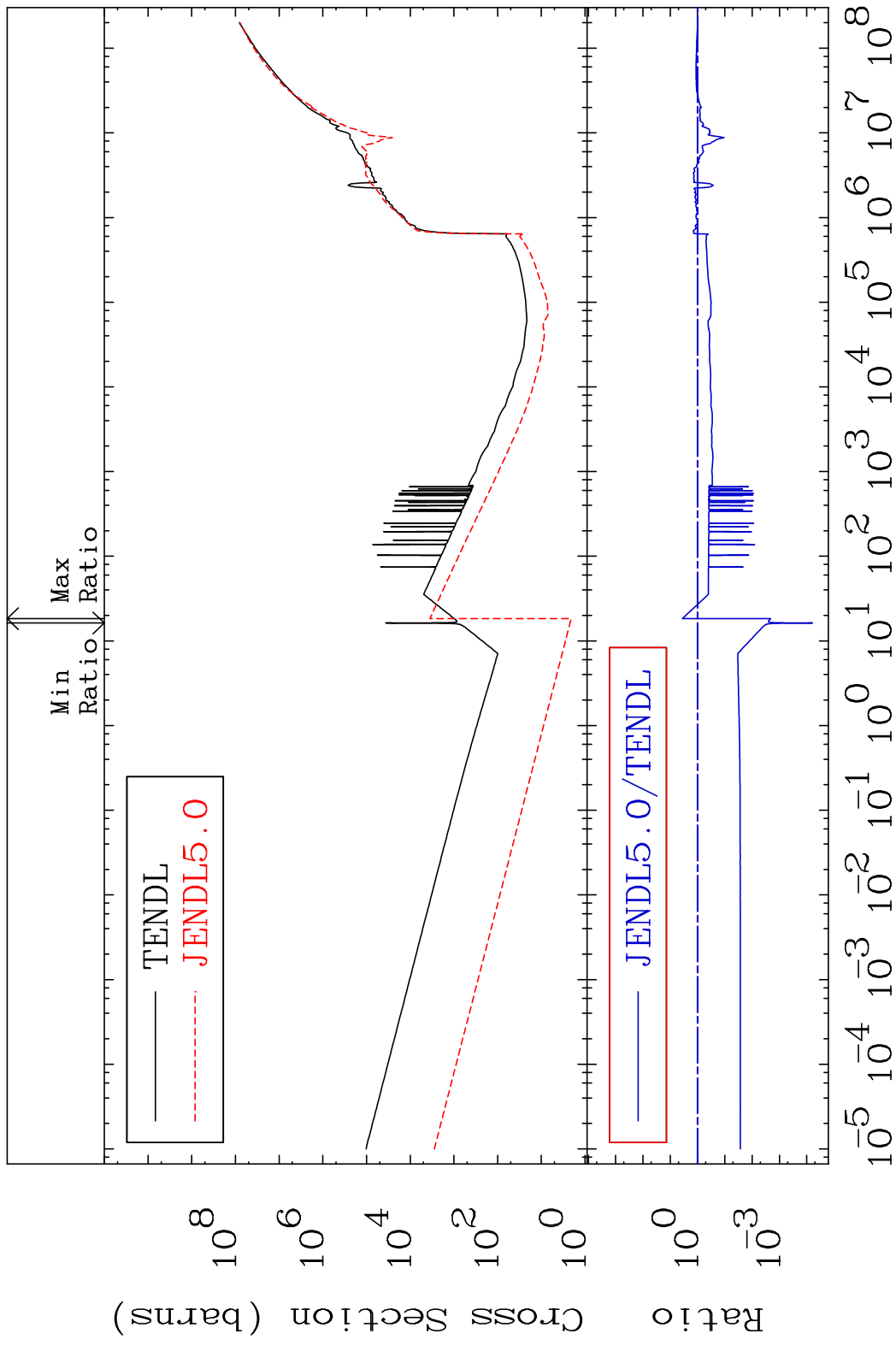


MAT 6419

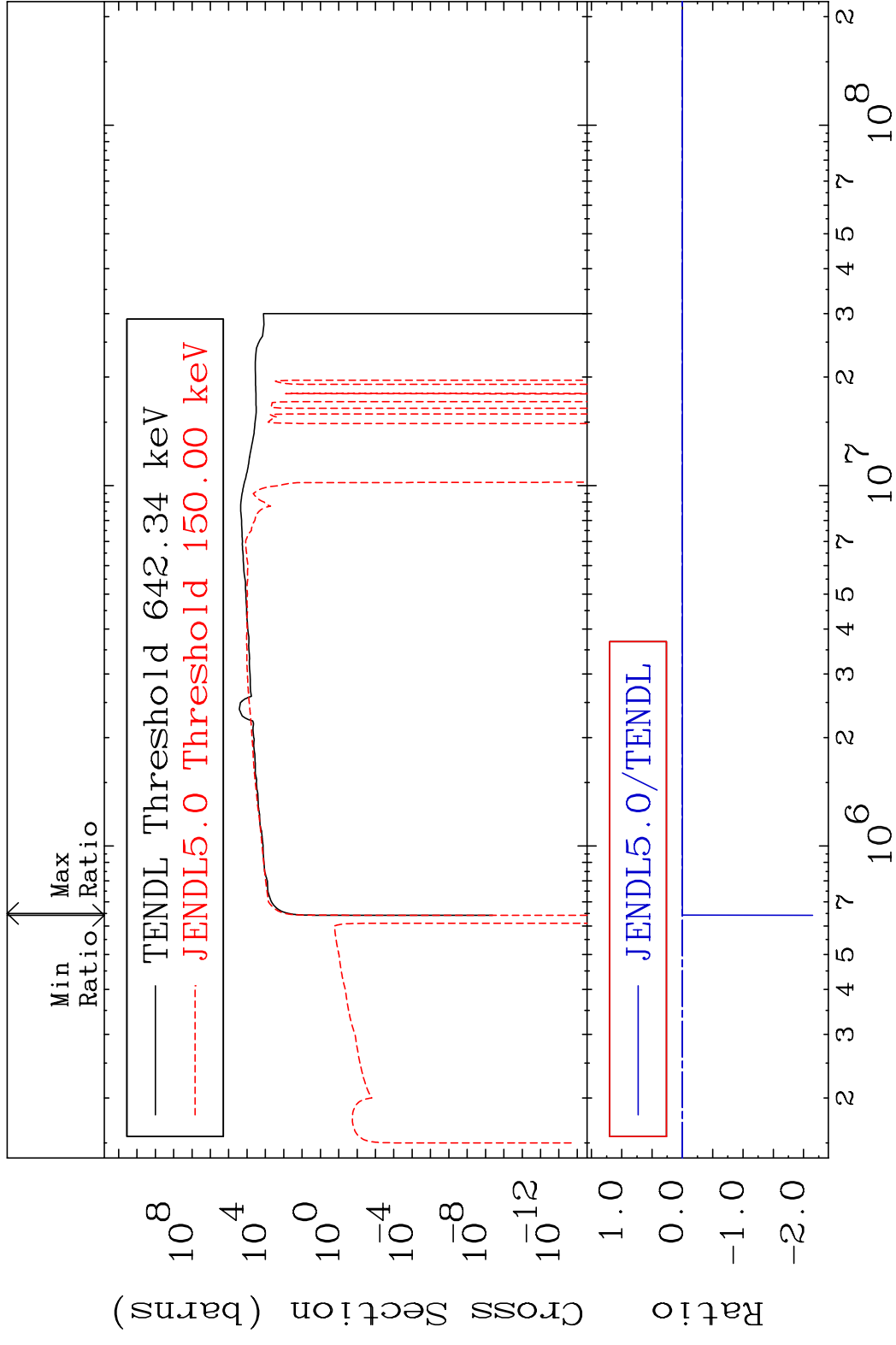
Kerma elastic Cross Section -97.83 To 9999. %  
64-Gd-150



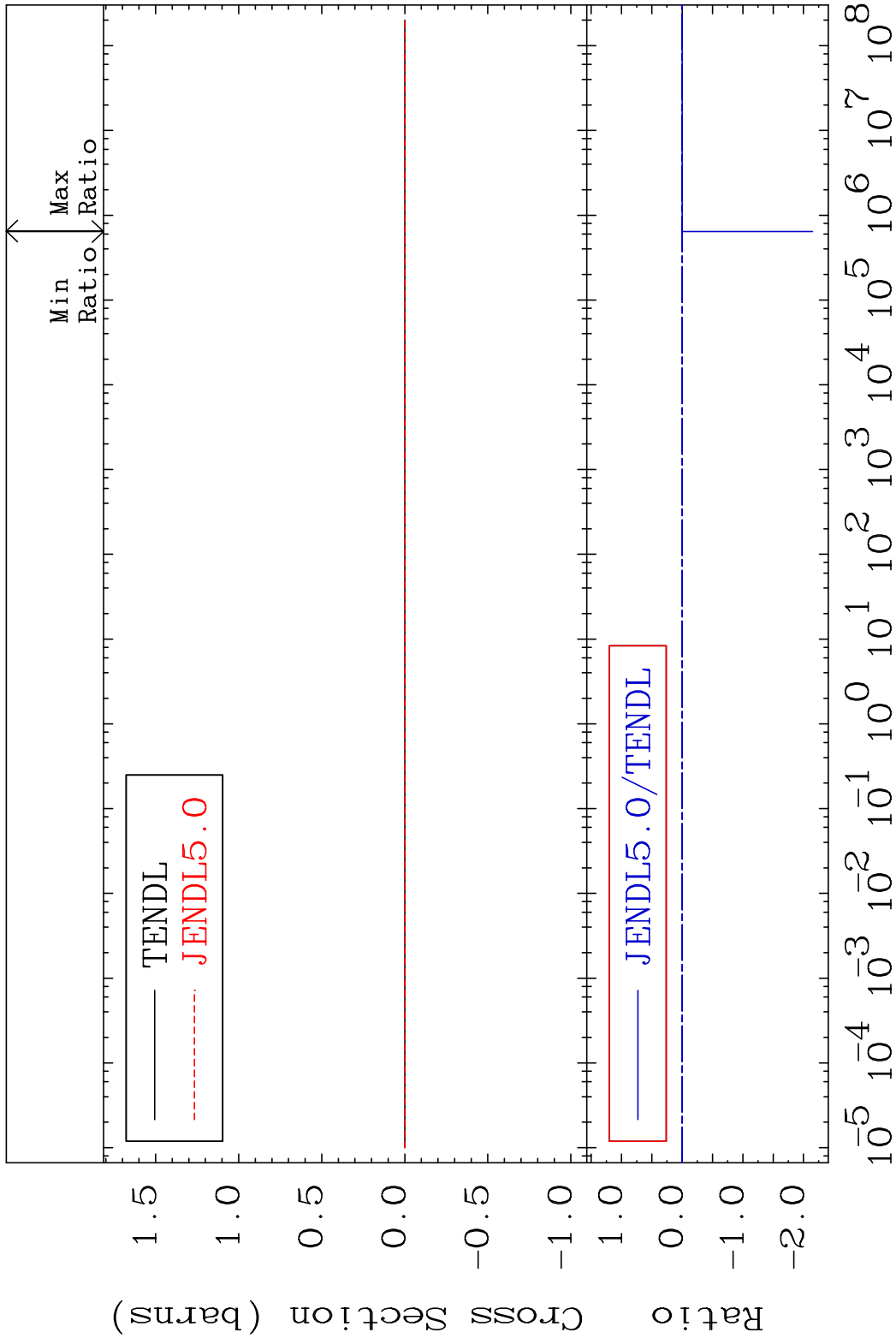
MAT 6419 Kerma non-elastic (all but mt2) 64-Gd-150  
 Cross Section -99.99 To 259.6 %



MAT 6419 Kerma inelastic (mt51-91) 64-Gd-150  
 Cross Section -9999. To 49.17 %

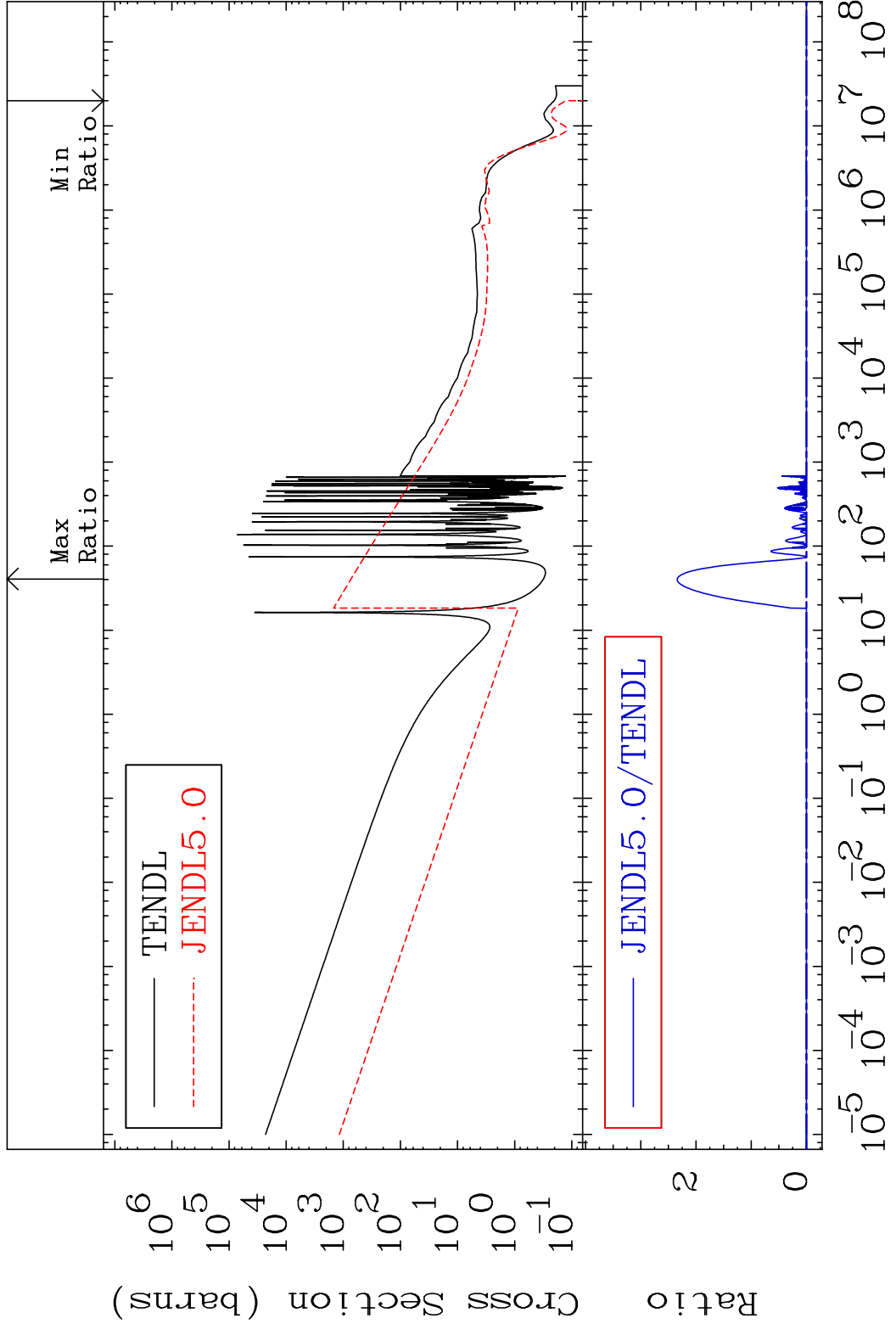


MAT 6419 Kerma fission (mt18 or mt19-20-21-38) 64-Gd-150  
 Cross Section -9999. To 49.17 %



MAT 6419

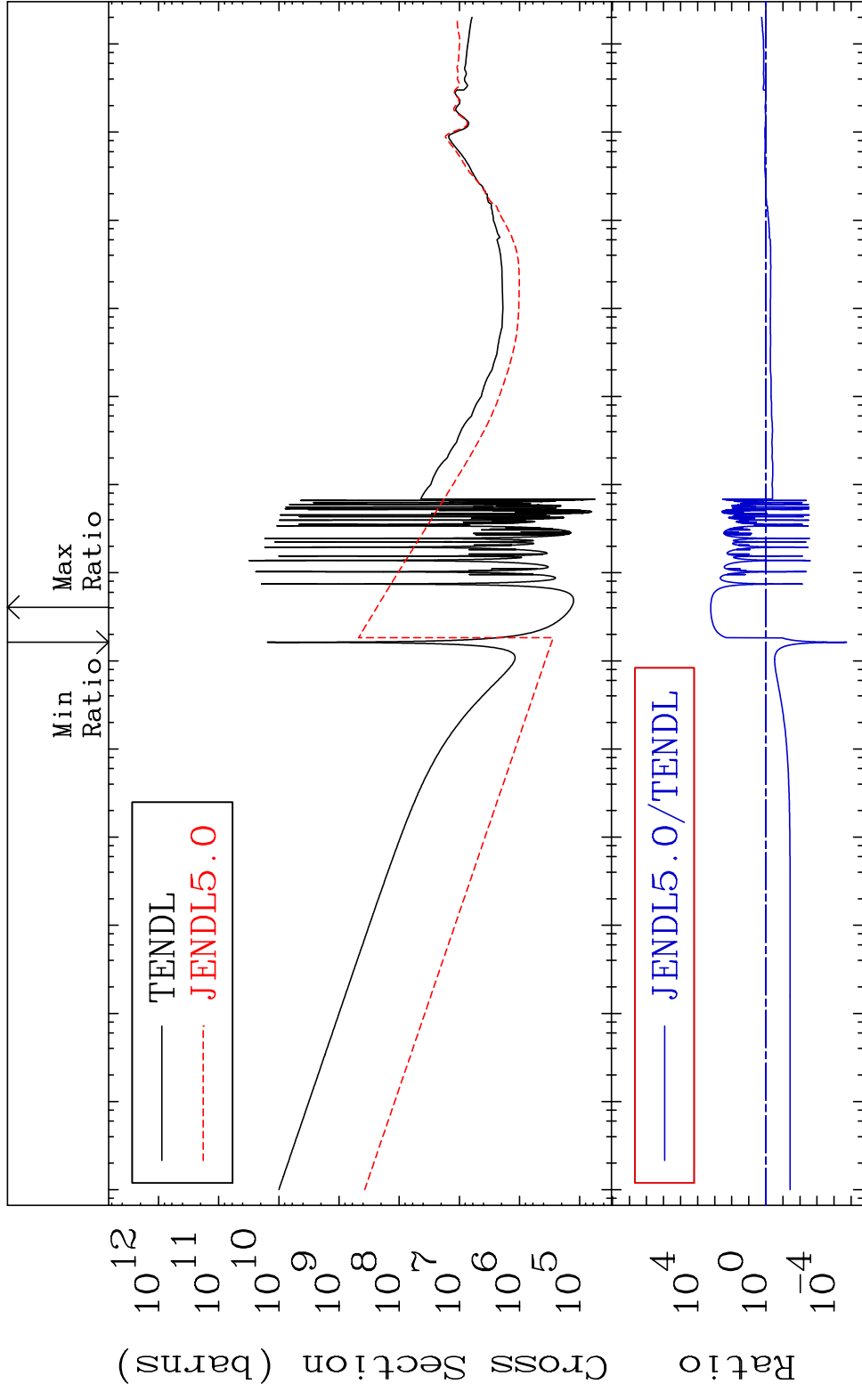
Kerma capture (mt102) 64-Gd-150  
Cross Section -100.0 To 9999. %



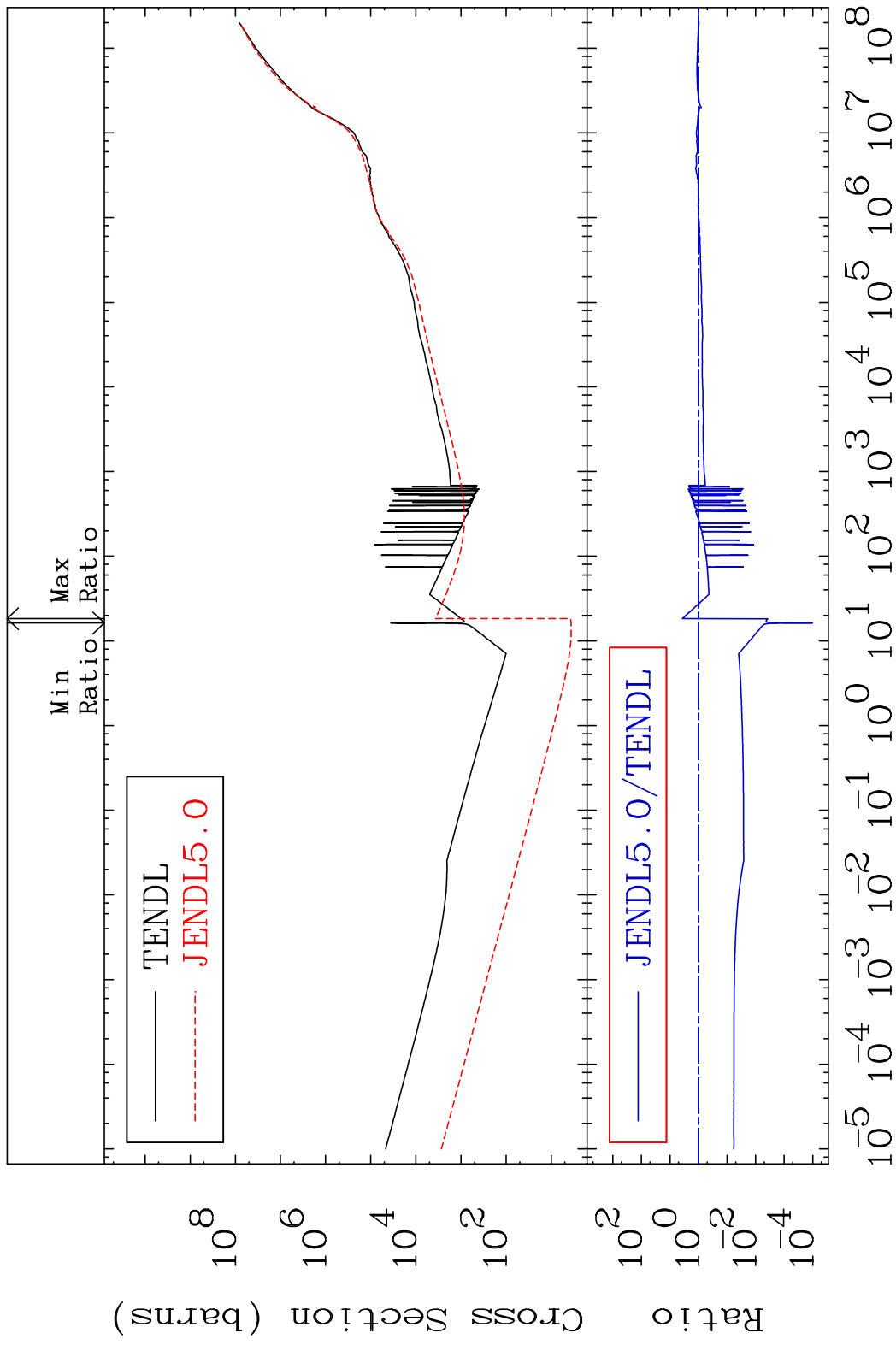
38

Incident Energy (eV) 64-Gd-150

MAT 6419 Total photon (eV-barns) 64-Gd-150  
 Cross Section -100.0 To 9999. %

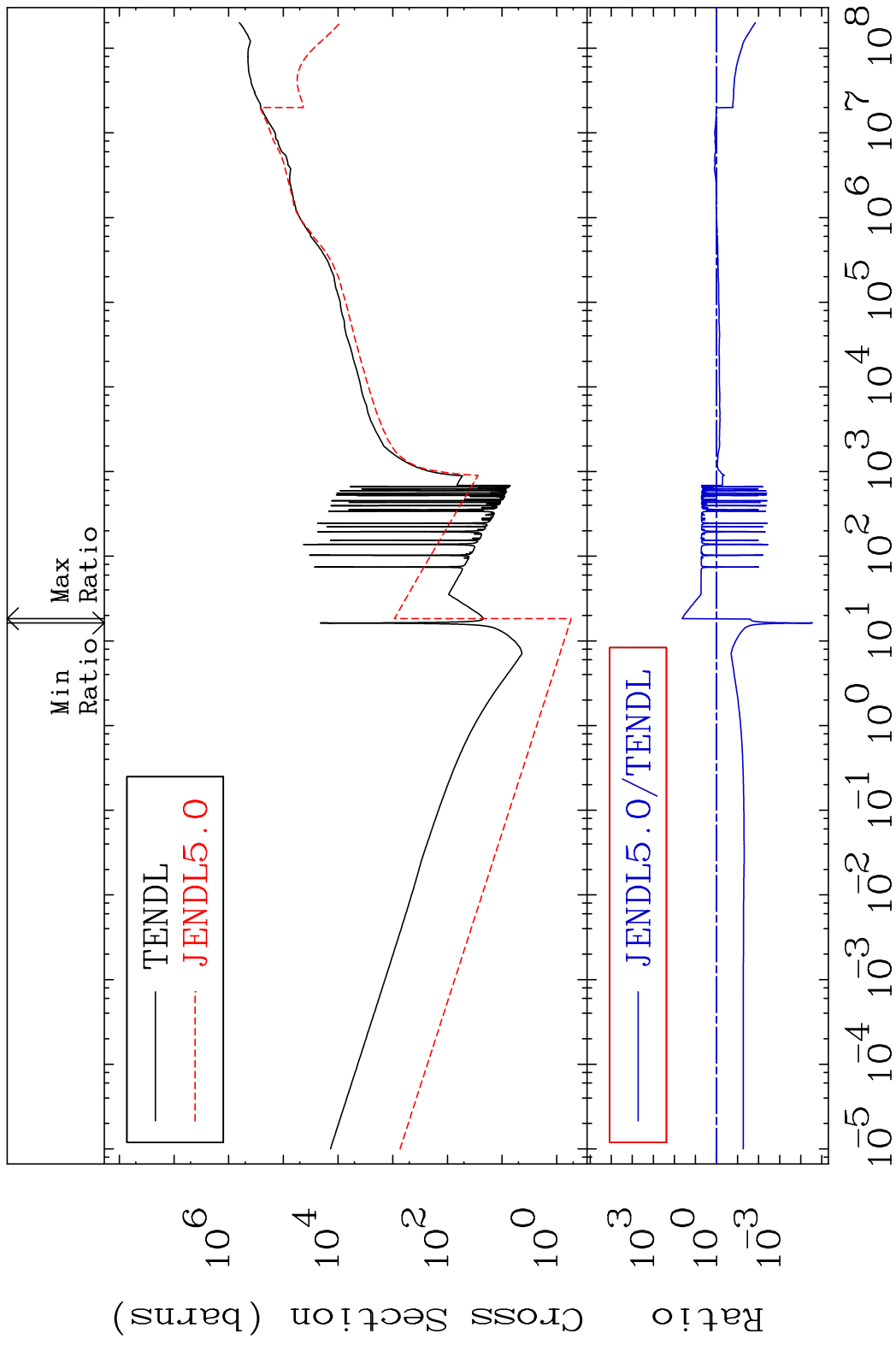


MAT 6419 Total kinematic kerma (high limit) 64-Gd-150  
Cross Section -99.99 To 269.2 %



40 Incident Energy (eV) 64-Gd-150

MAT 6419      Dpa total (eV-barns)      64-Gd-150  
 Cross Section      -100.0 To 4097. %

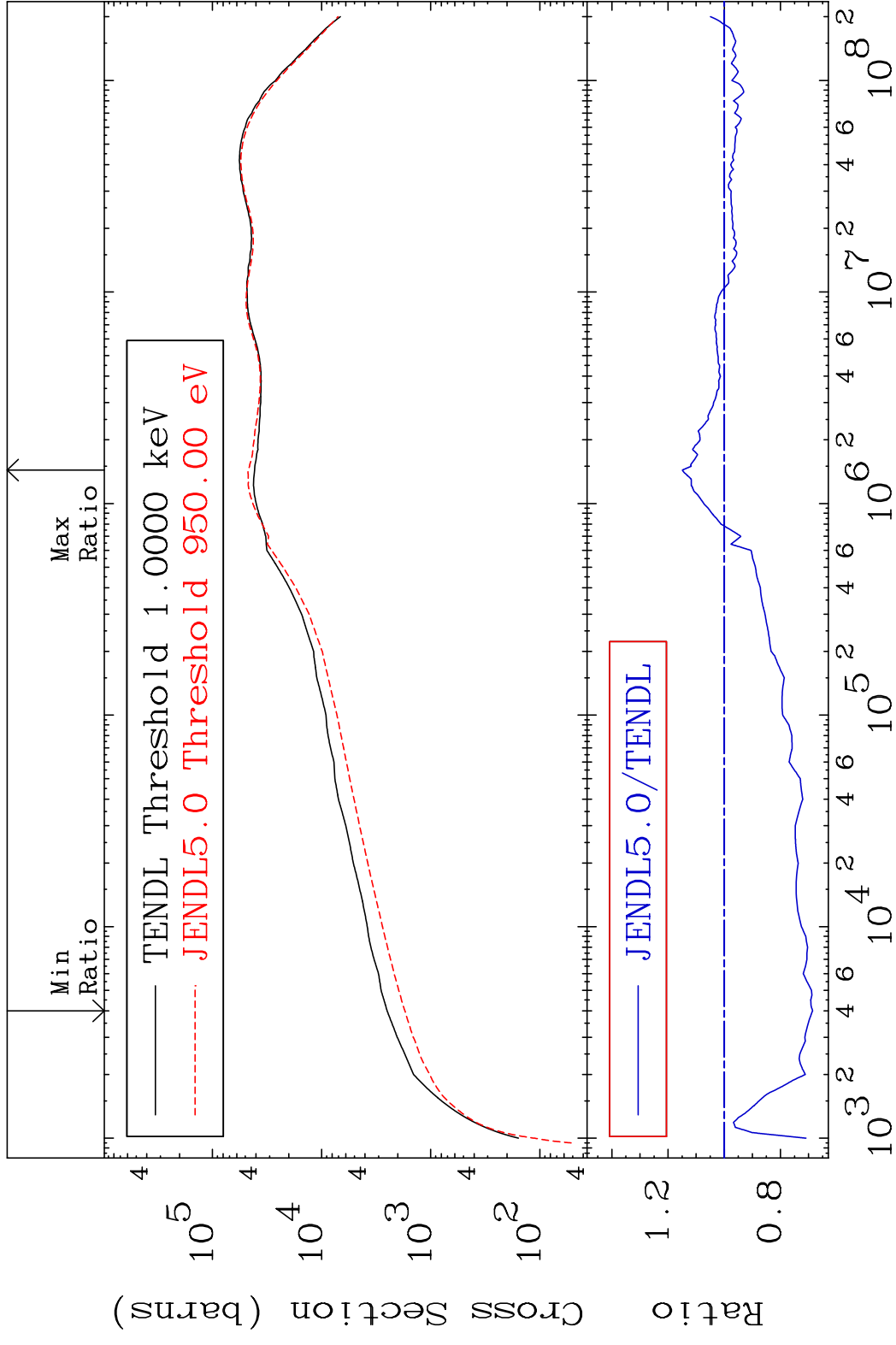


MAT 6419

Dpa elastic (mt2)

64-Gd-150

Cross Section -31.43 To 14.91 %

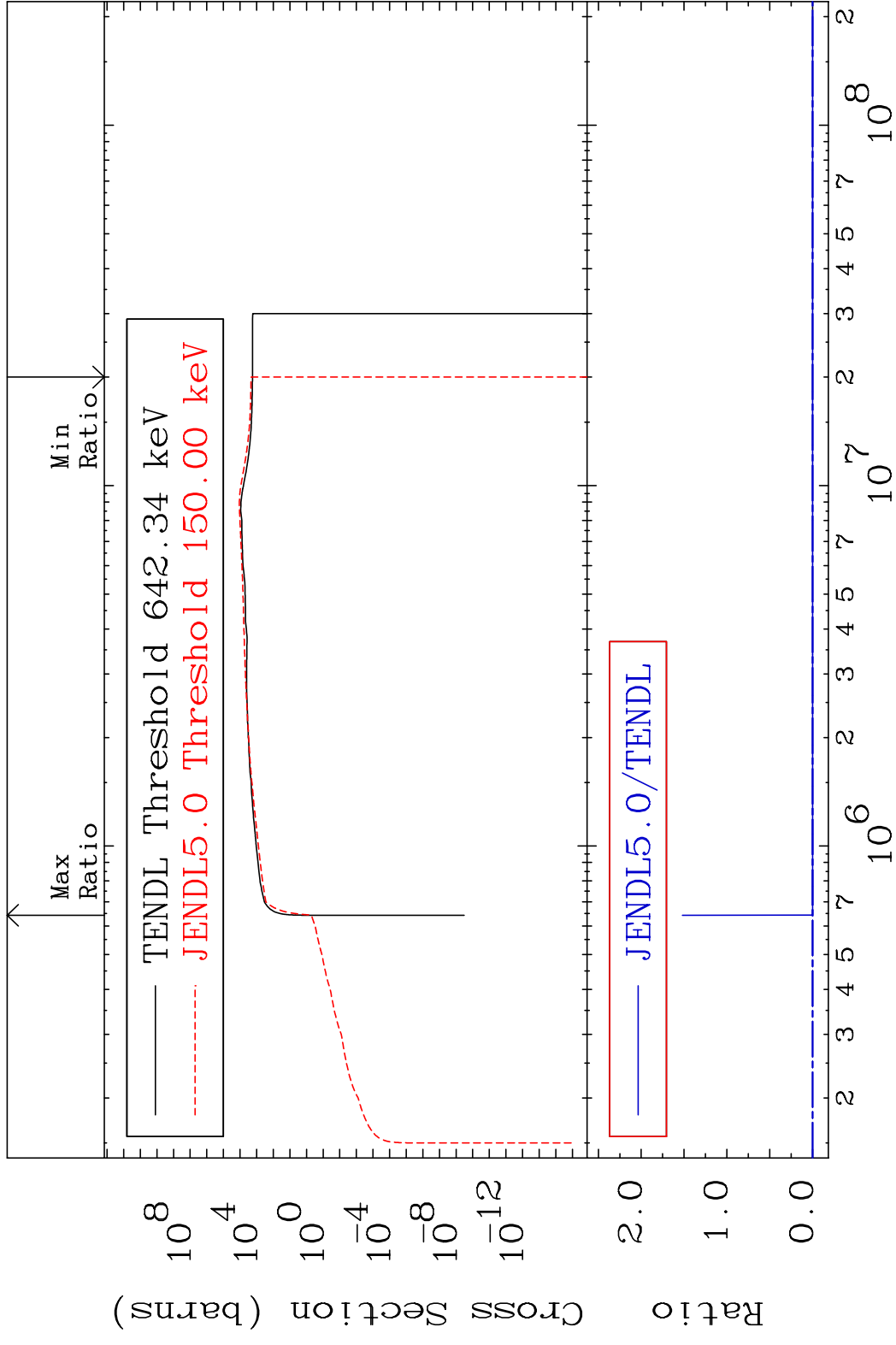


42

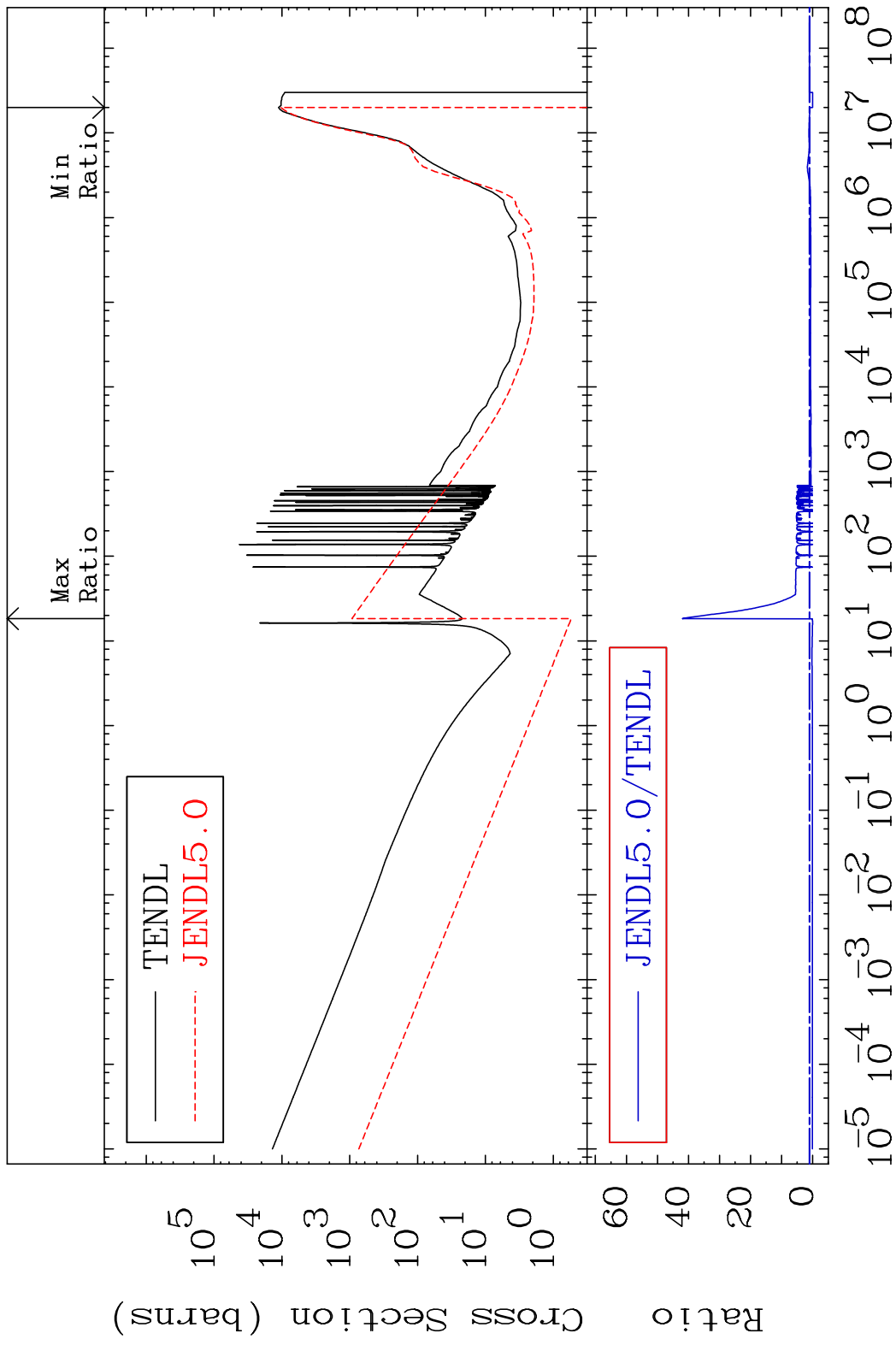
Incident Energy (eV)

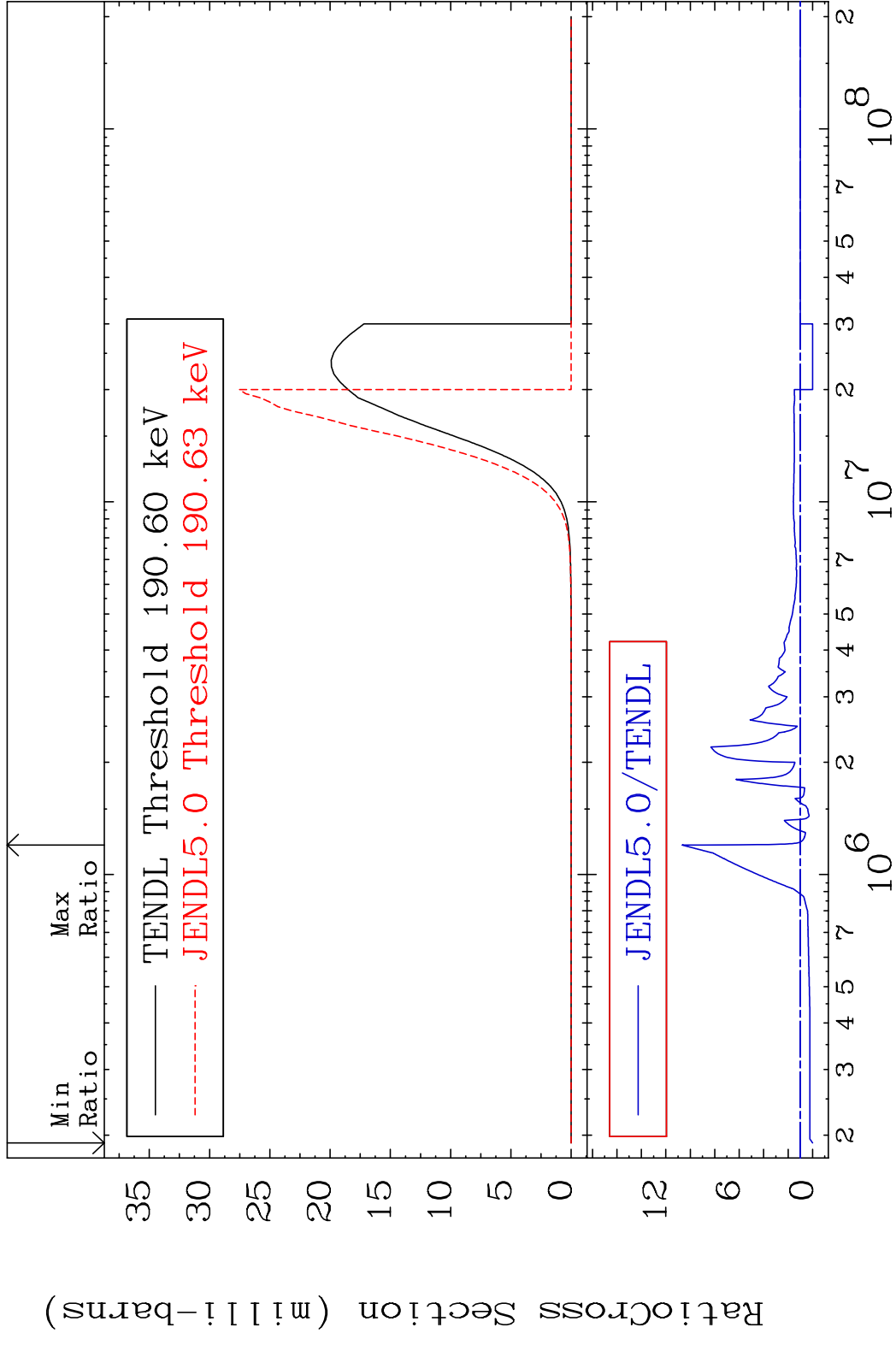
64-Gd-150

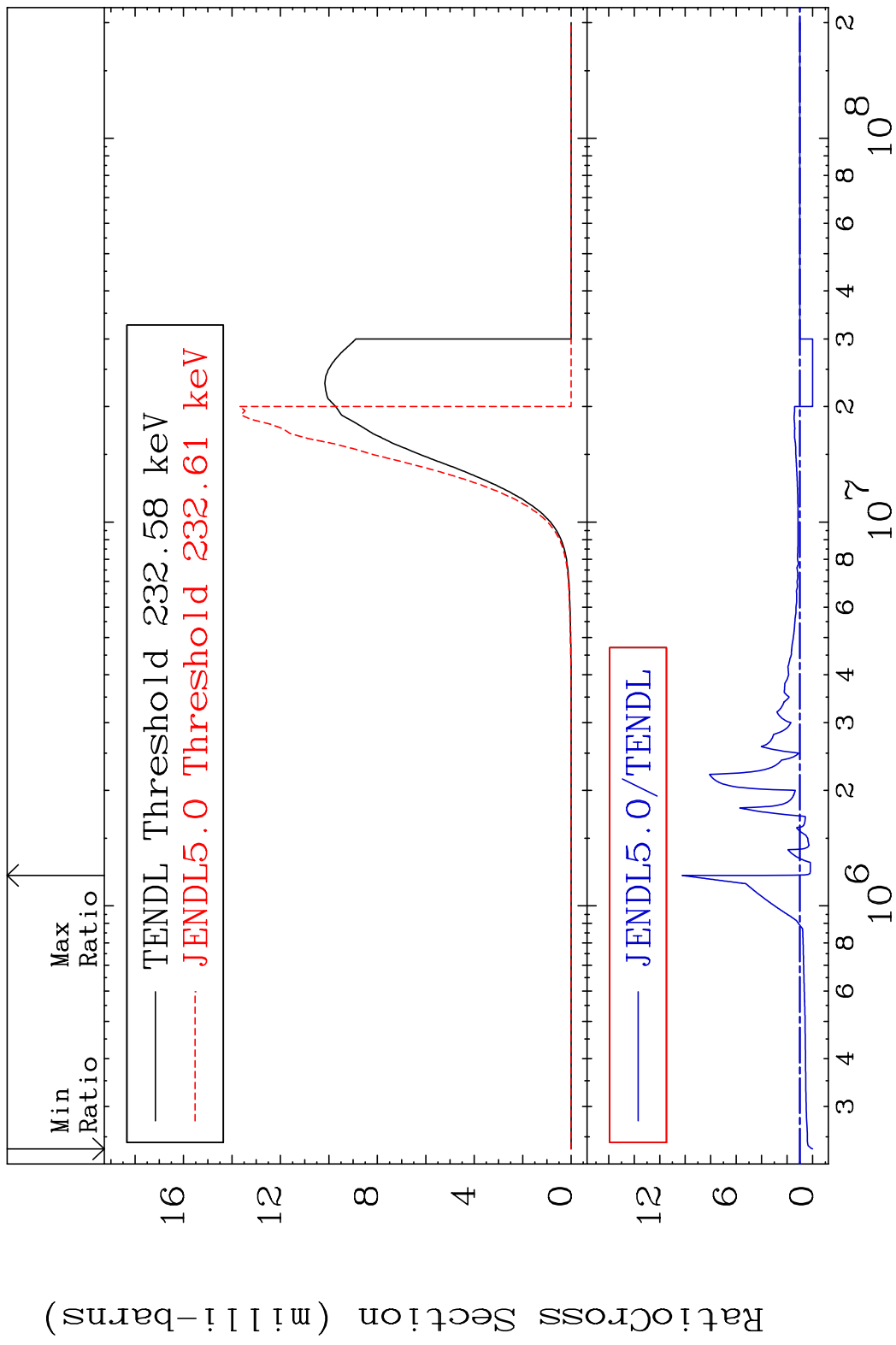
MAT 6419 Dpa inelastic (mt51-91) 64-Gd-150  
 Cross Section -100.0 To 9999. %



MAT 6419 Dpa disappearance (mt102 -120) 64-Gd-150  
 Cross Section -100.0 To 4097. %





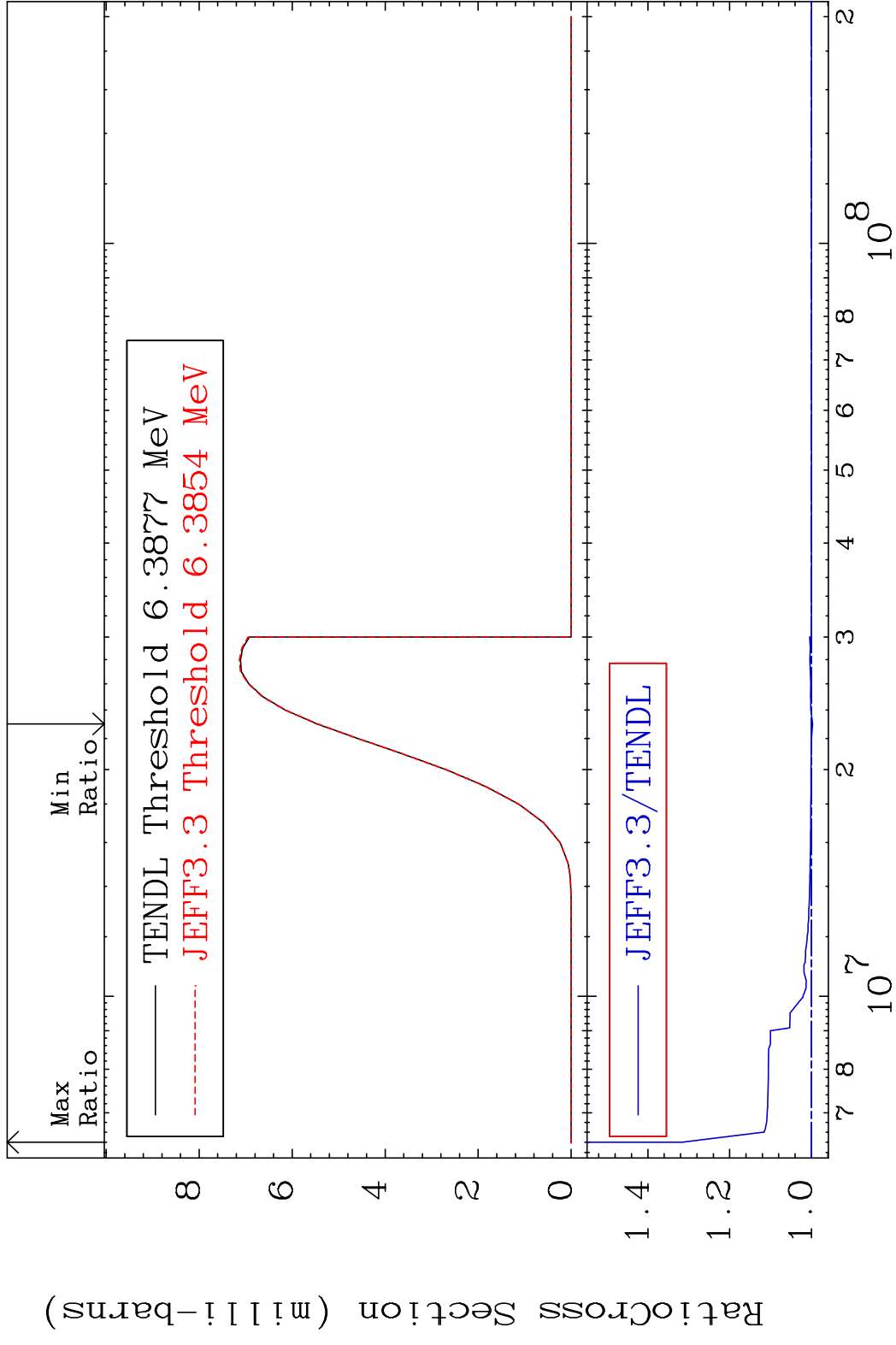


MAT 6419

(n, t)

64-Gd-150

Cross Section -0.274 To 31.57 %

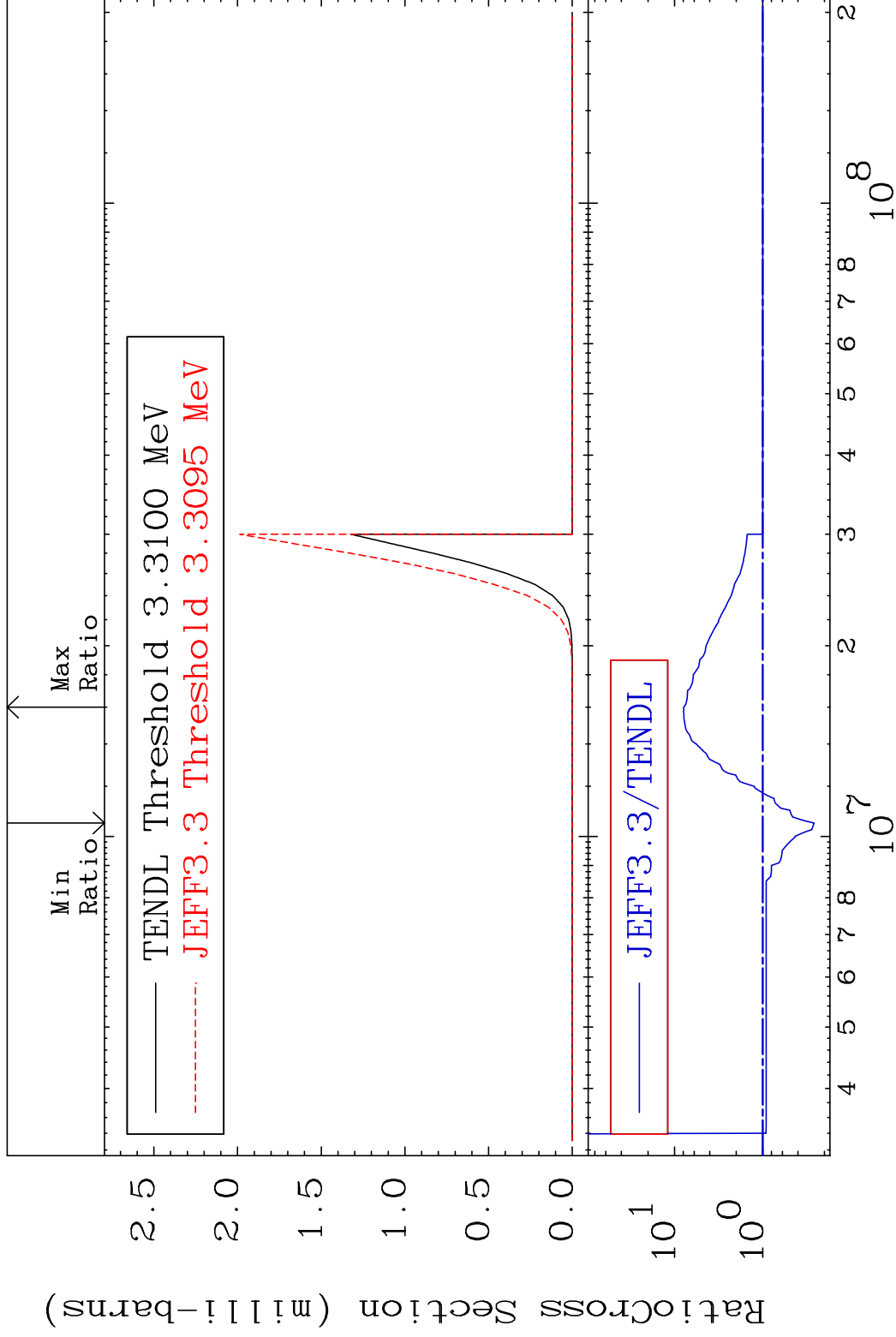


MAT 6419

(n, He-3)

64-Gd-150

Cross Section -73.74 To 688.9 %



48

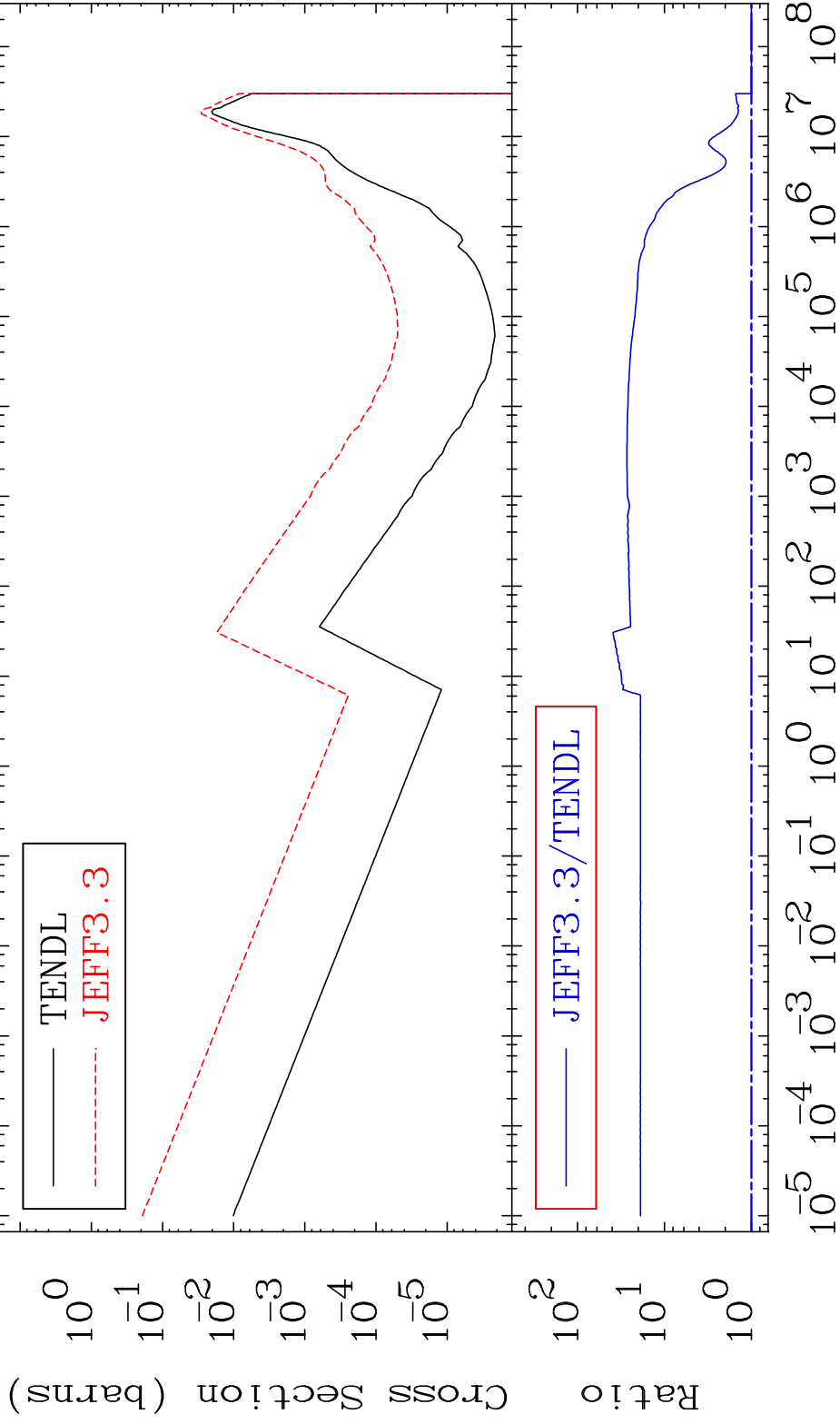
Incident Energy (eV)

64-Gd-150

MAT 6419

(n,  $\alpha$ )  
Cross Section 0.000 To 3801. %

64-Gd-150



49

Incident Energy (eV)

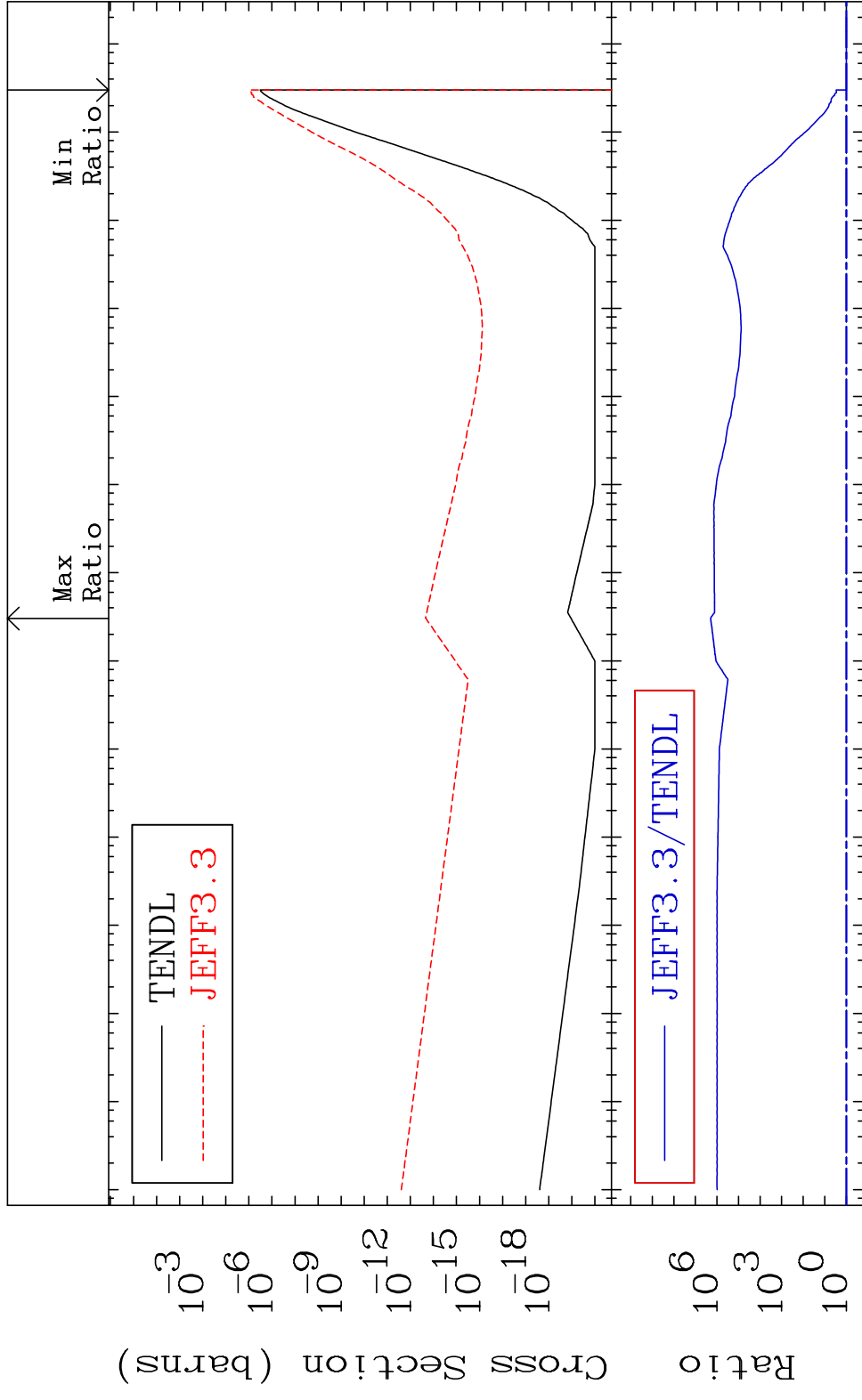
64-Gd-150

MAT 6419

(n, 2α)

64-Gd-150

Cross Section 0.000 To 9999. %

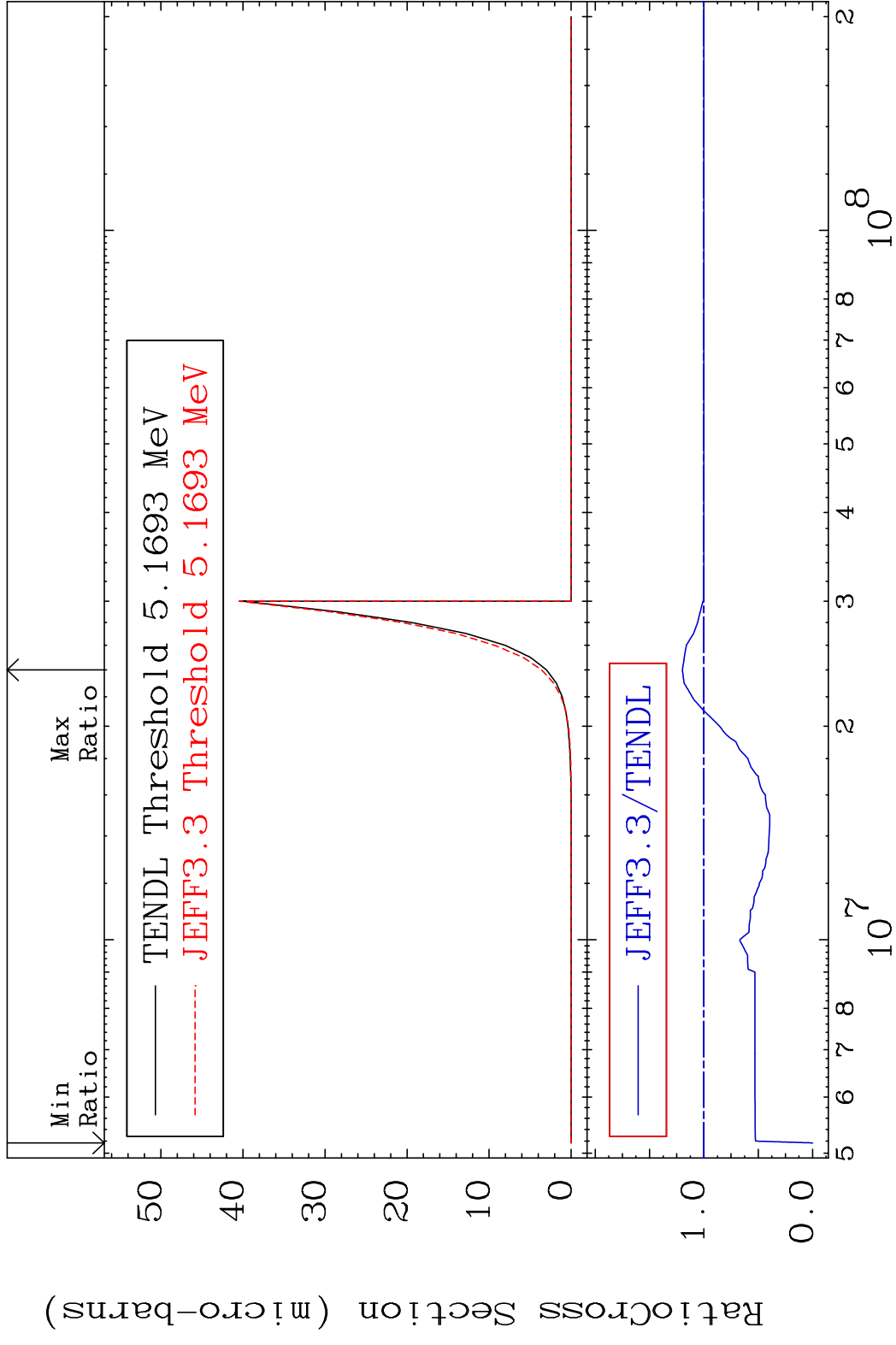


MAT 6419

(n,2p)

64-Gd-150

Cross Section -100.0 To 19.81 %

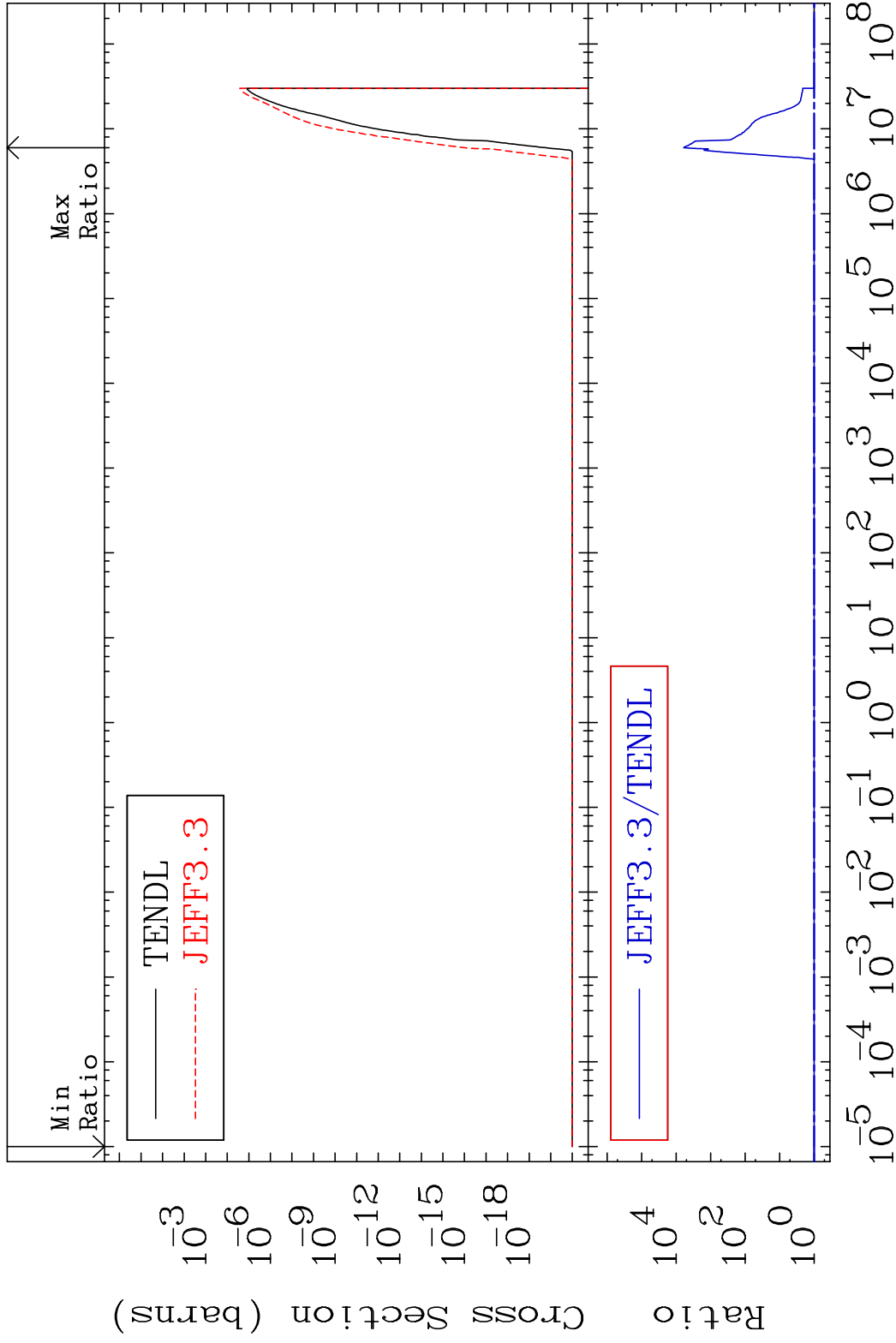


MAT 6419

(n,p)  $\alpha$

64-Gd-150

Cross Section 0.000 To 9999. %



52

Incident Energy (eV)

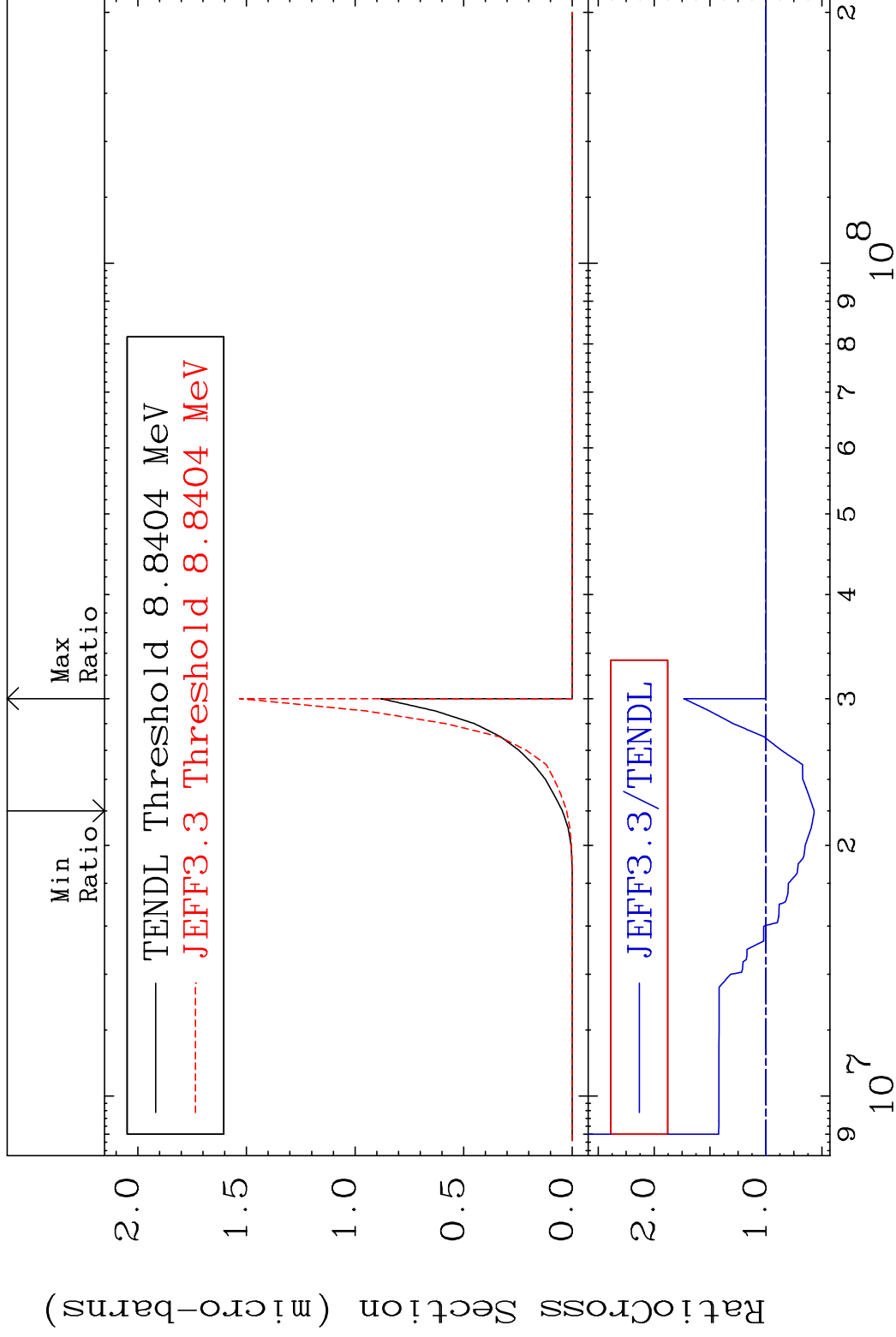
64-Gd-150

MAT 6419

(n,p) d

64-Gd-150

Cross Section -43.07 To 73.59 %



53

Incident Energy (eV)

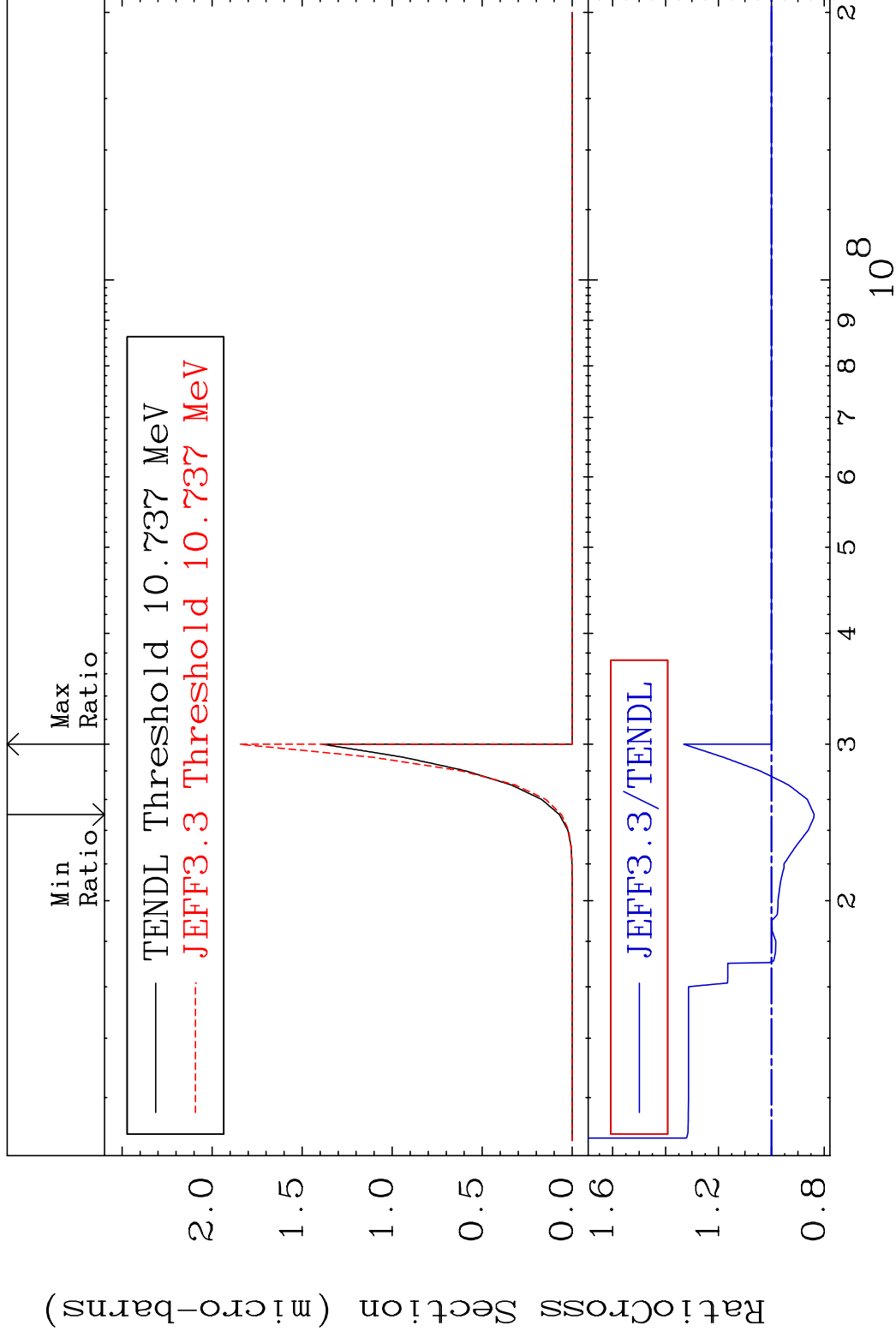
64-Gd-150

MAT 6419

(n,p) t

64-Gd-150

Cross Section -16.15 To 33.16 %

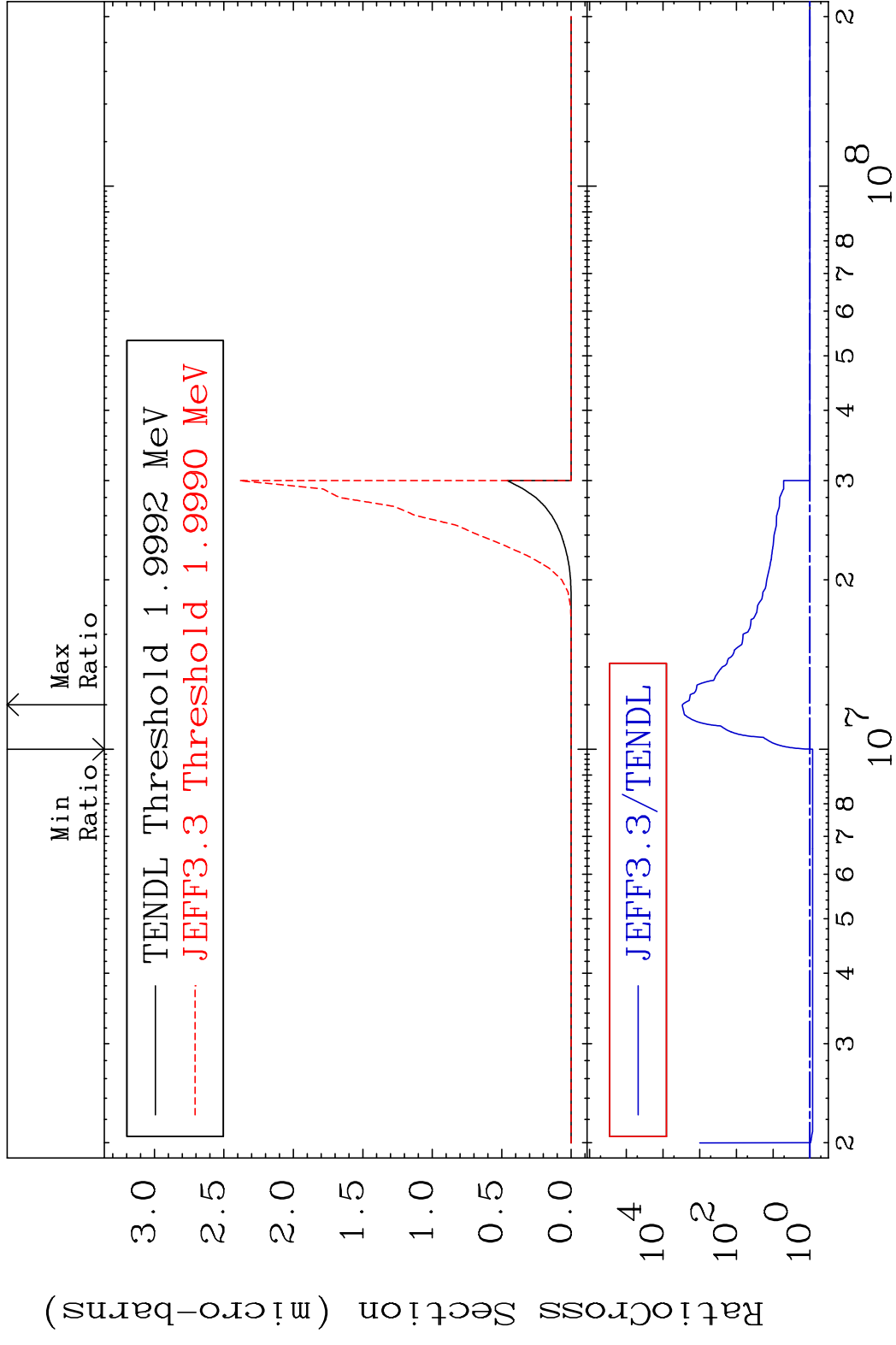


MAT 6419

(n,d)  $\alpha$

64-Gd-150

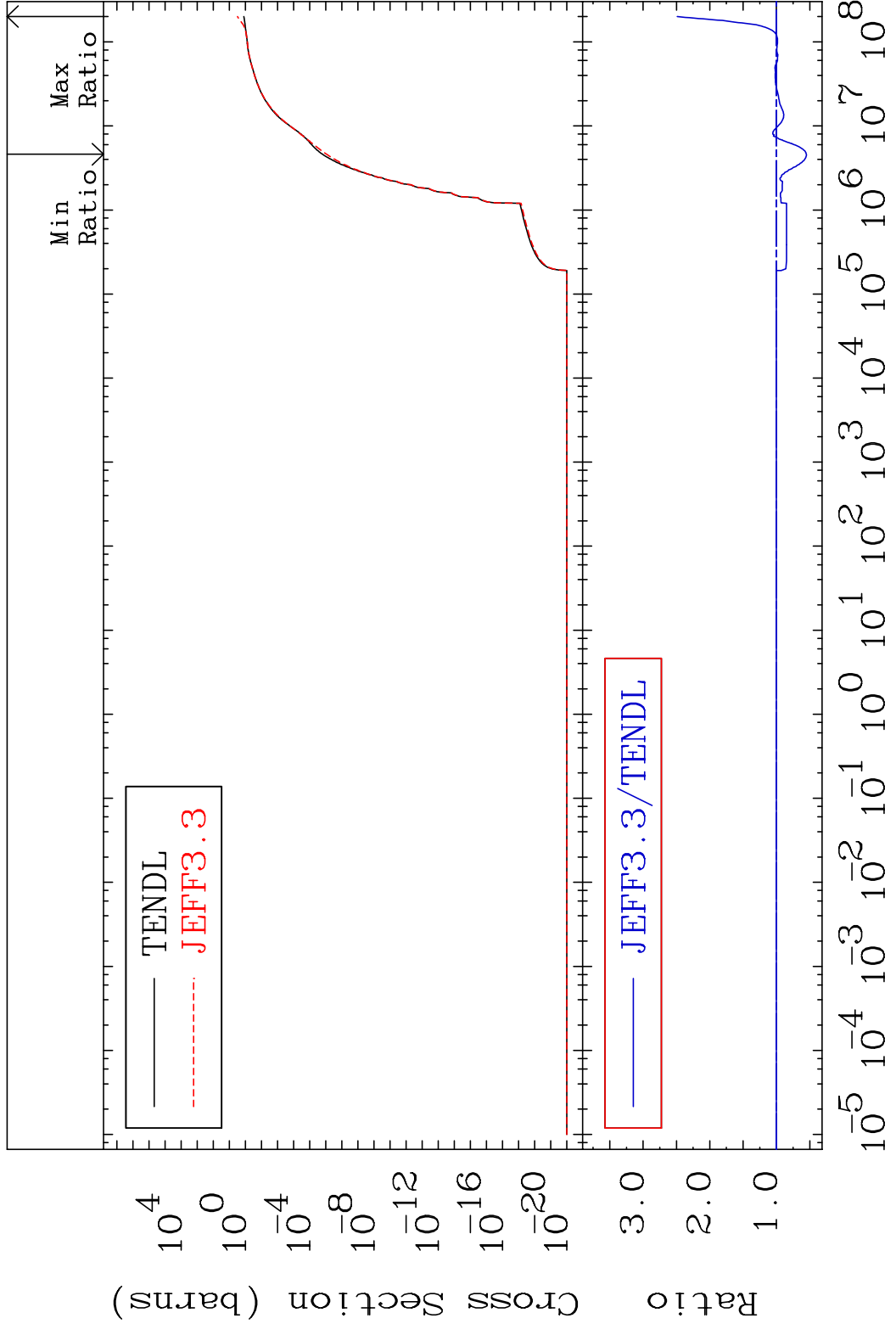
Cross Section -15.78 To 9999. %



MAT 6419

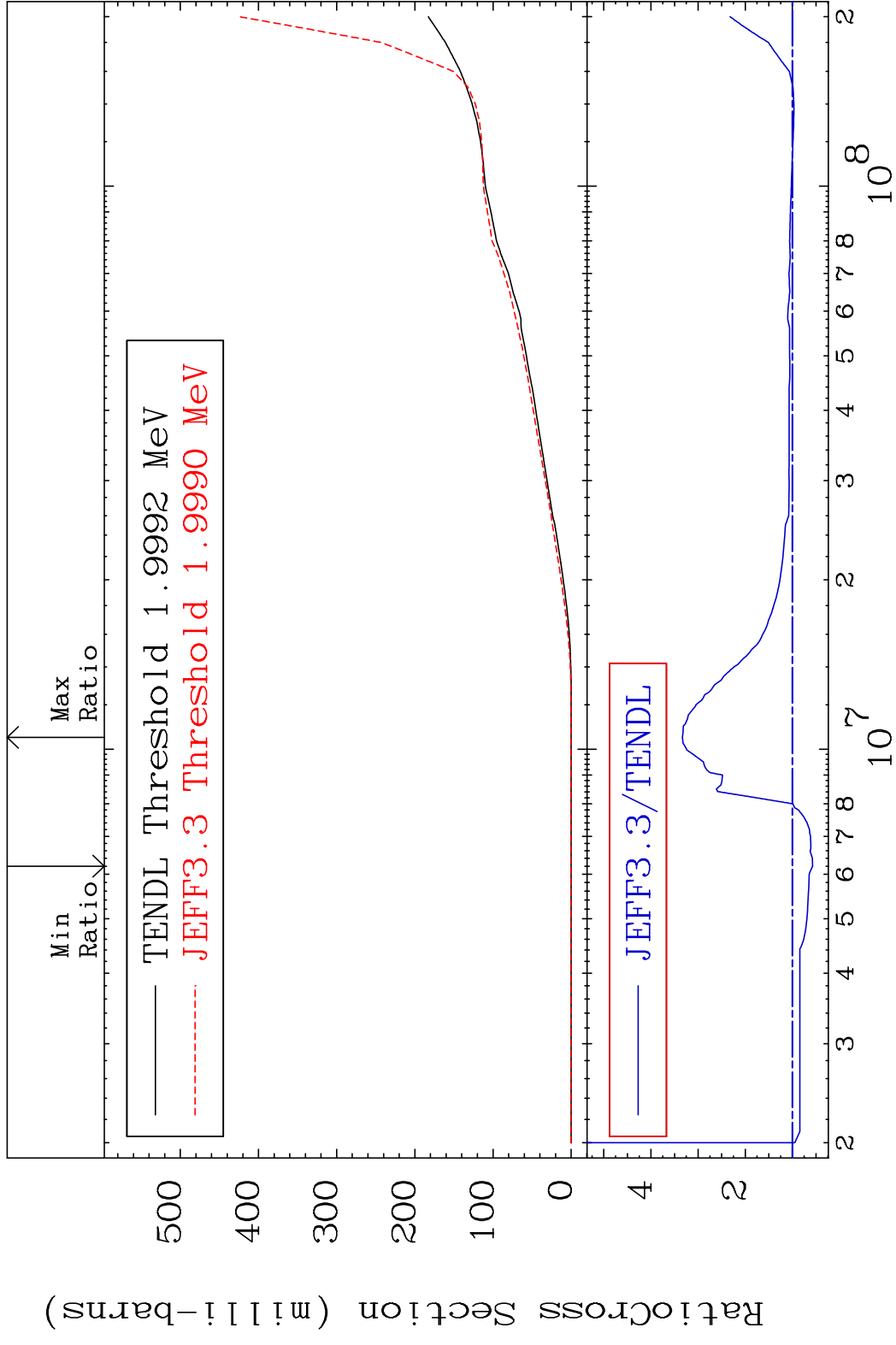
Hydrogen Production  
Cross Section

64-Gd-150  
-44.94 To 148.9 %



MAT 6419

Deuterium Production 64-Gd-150  
Cross Section -42.72 To 233.4 %

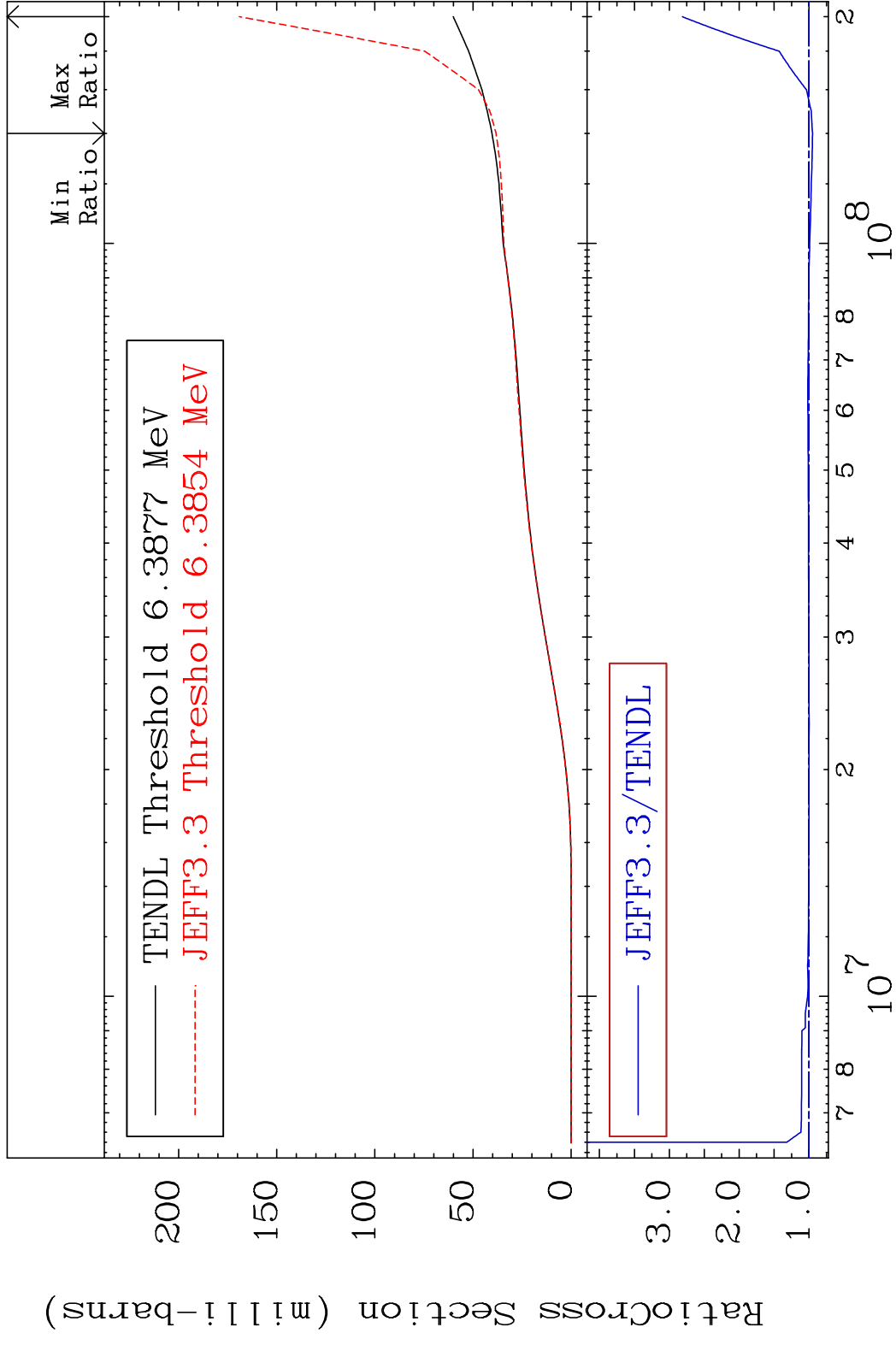


MAT 6419

Tritium Production

64-Gd-150

Cross Section -5.119 To 181.3 %

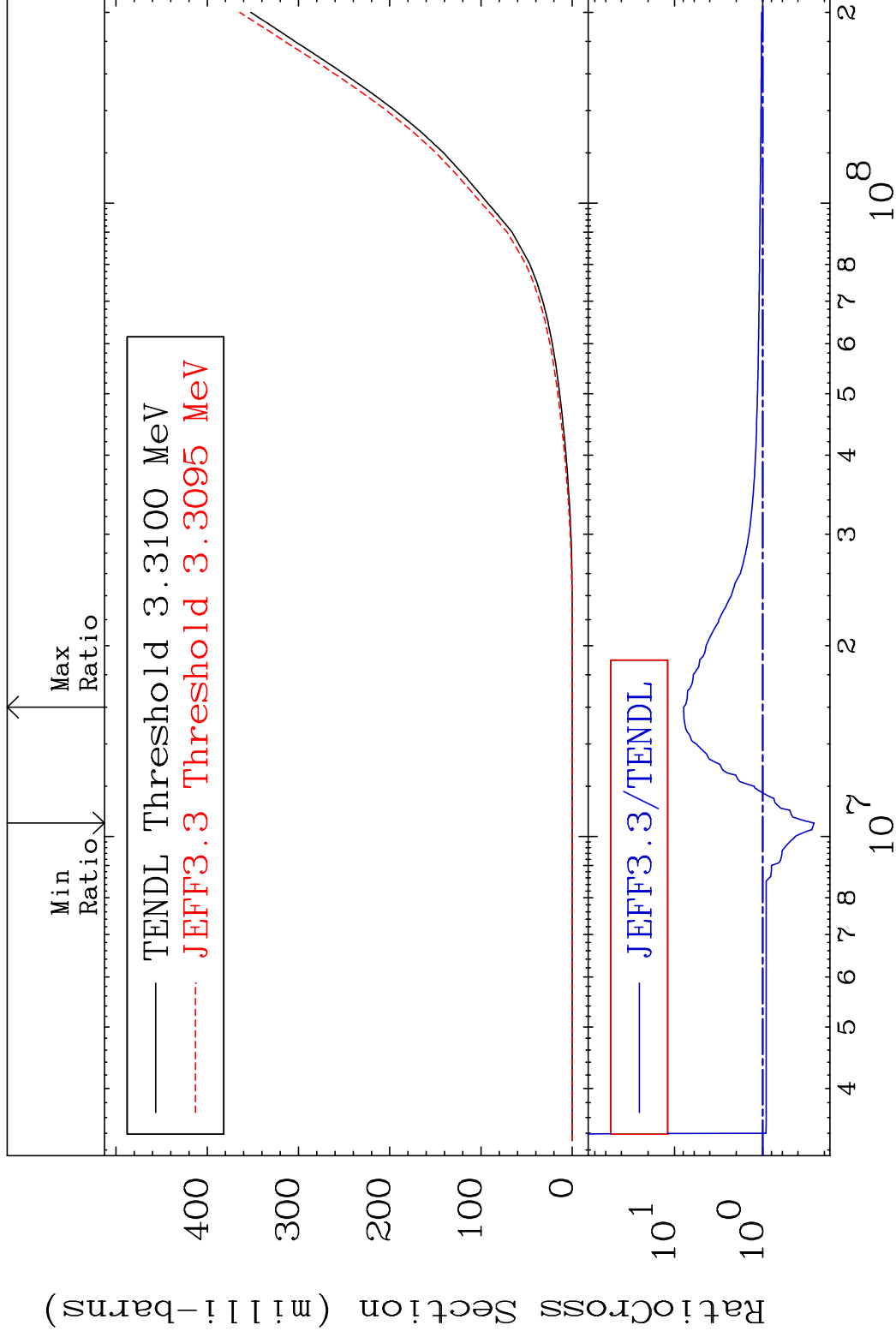


MAT 6419

He-3 Production

64-Gd-150

Cross Section -73.74 To 688.9 %



59

Incident Energy (eV)

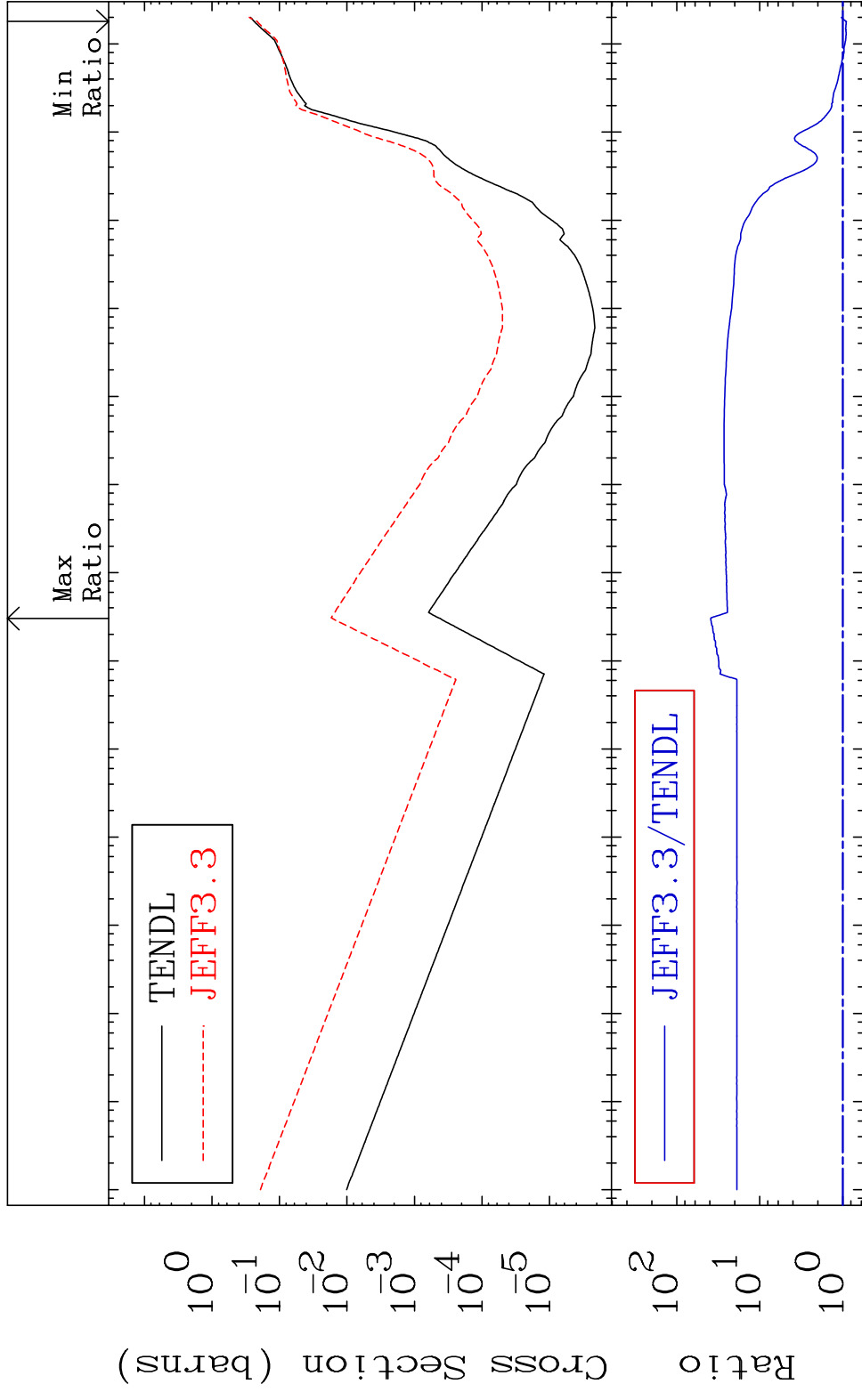
64-Gd-150

MAT 6419

He-4 Production

64-Gd-150

Cross Section -9.273 To 3801. %

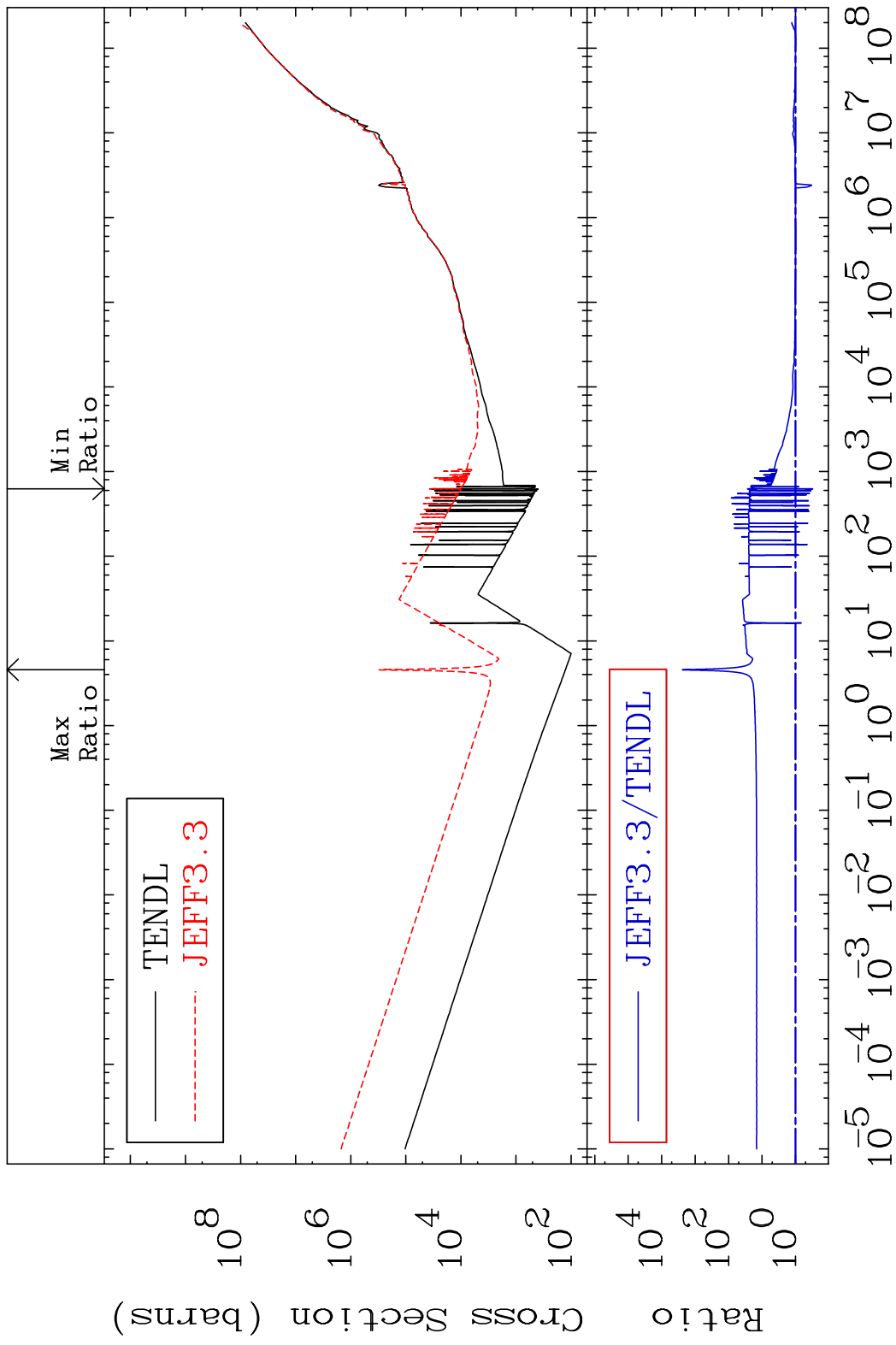


60

Incident Energy (eV)

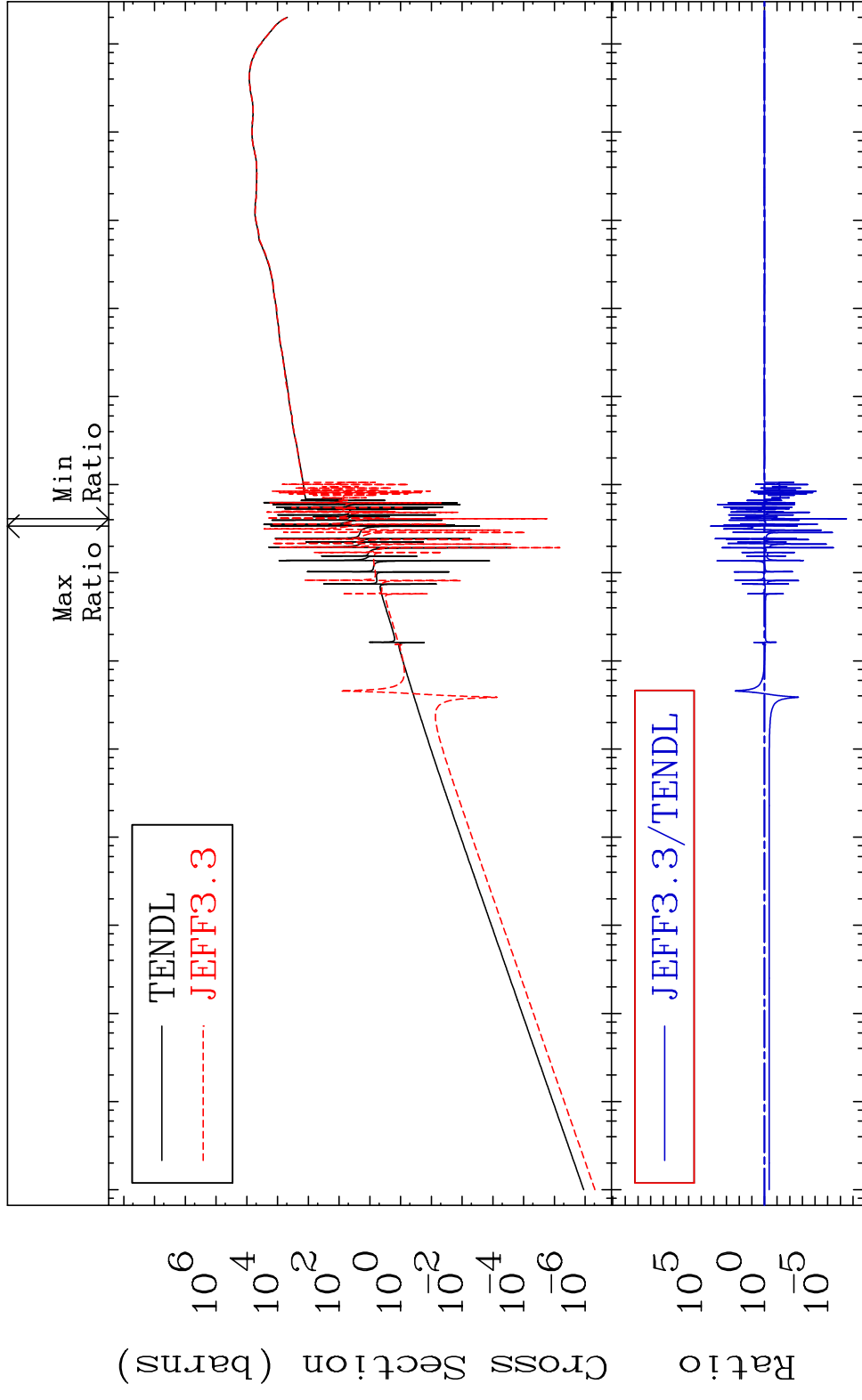
64-Gd-150

MAT 6419 Kerma total (eV-barns) 64-Gd-150  
 Cross Section -69.00 To 9999. %



MAT 6419

Kerma elastic  
Cross Section -100.0 To 9999. %  
64-Gd-150

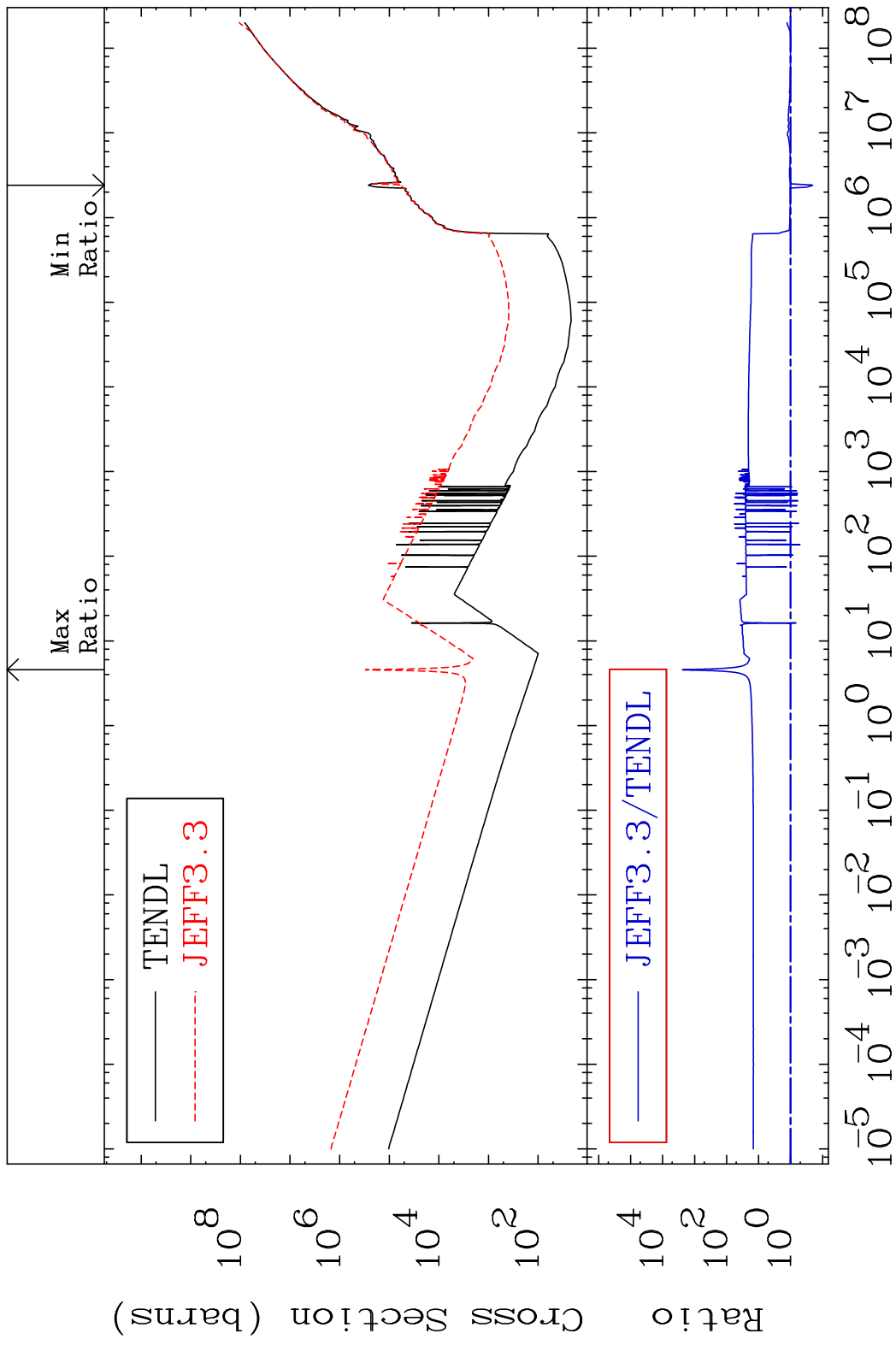


10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>  
Incident Energy (eV)

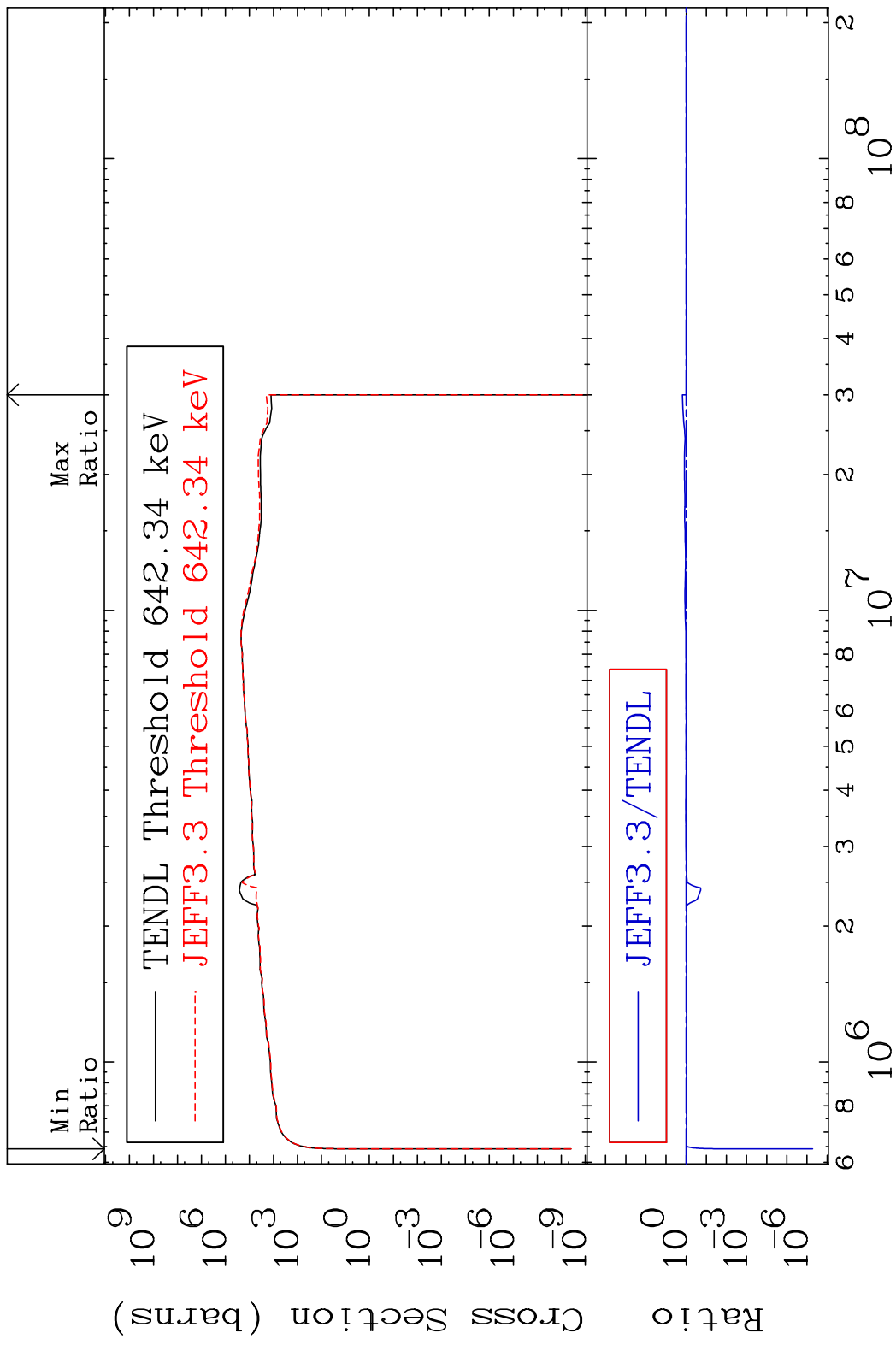
62

64-Gd-150

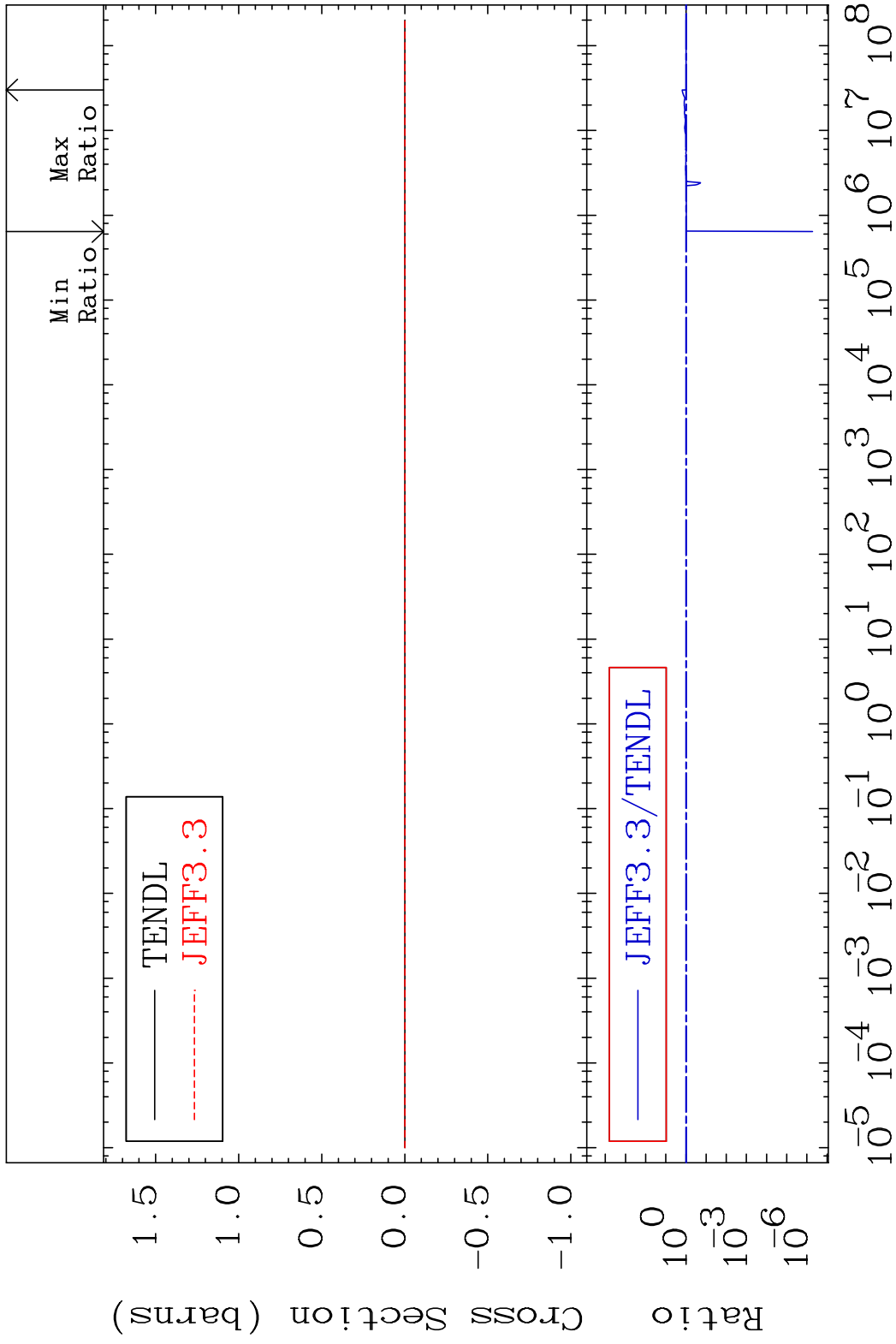
MAT 6419 Kerma non-elastic (all but mt2) 64-Gd-150  
 Cross Section -79.46 To 9999. %



MAT 6419 Kerma inelastic (mt51-91) 64-Gd-150  
 Cross Section -100.0 To 54.39 %

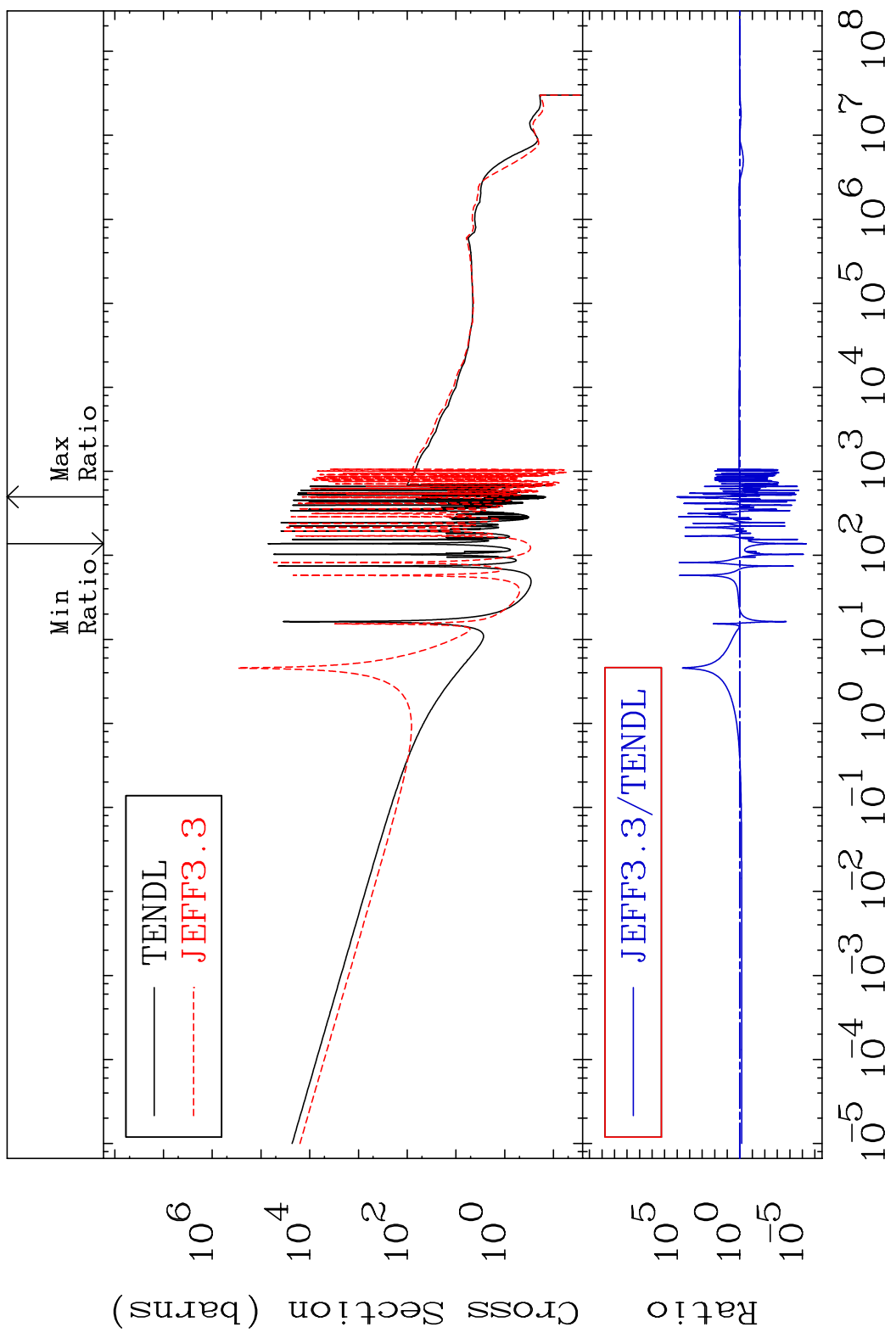


MAT 6419 Kerma fission (mt18 or mt19-20-21-38) 64-Gd-150  
 Cross Section -100.0 To 54.39 %



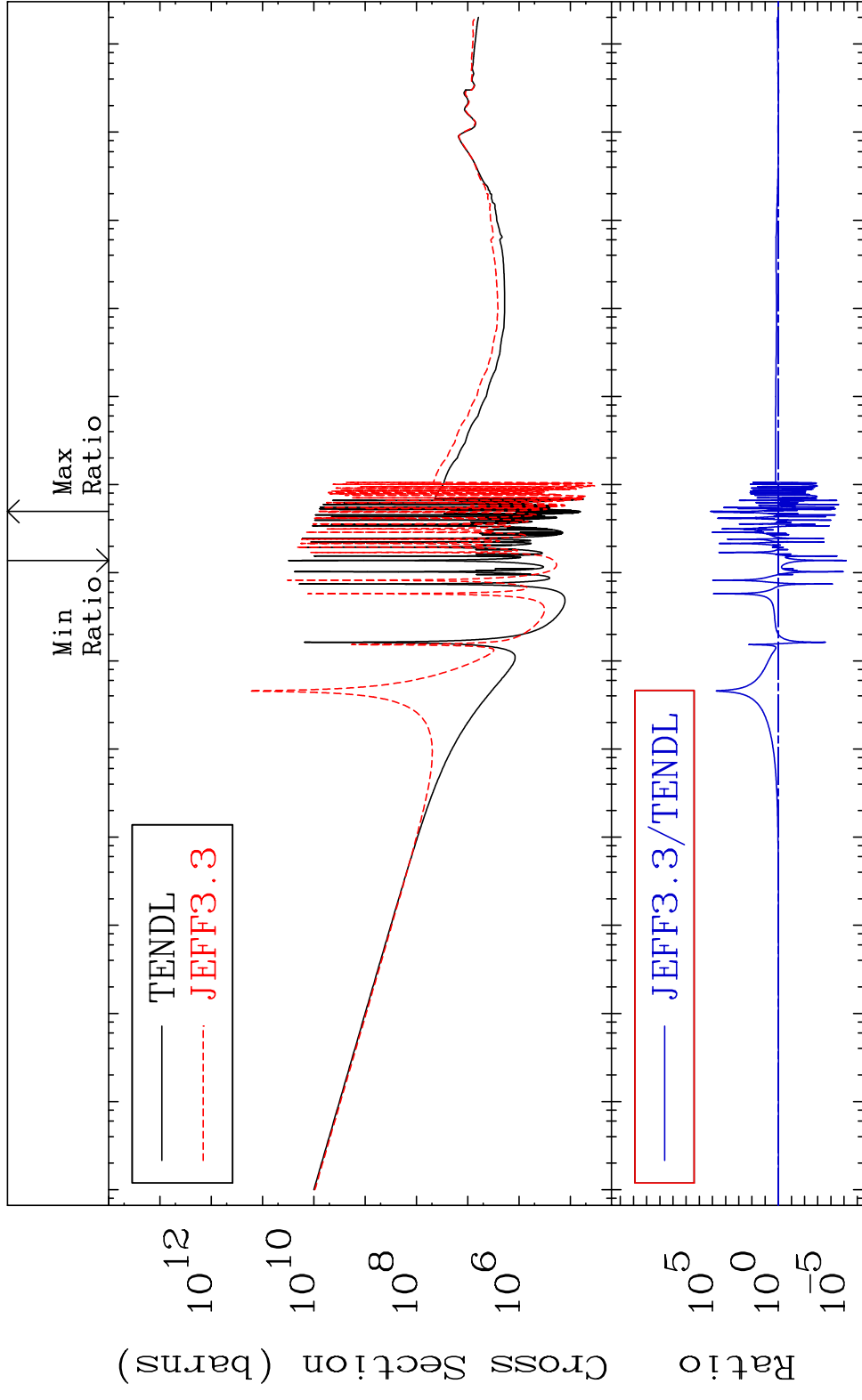
MAT 6419

Kerma capture (mt102) 64-Gd-150  
Cross Section -100.0 To 9999. %



MAT 6419

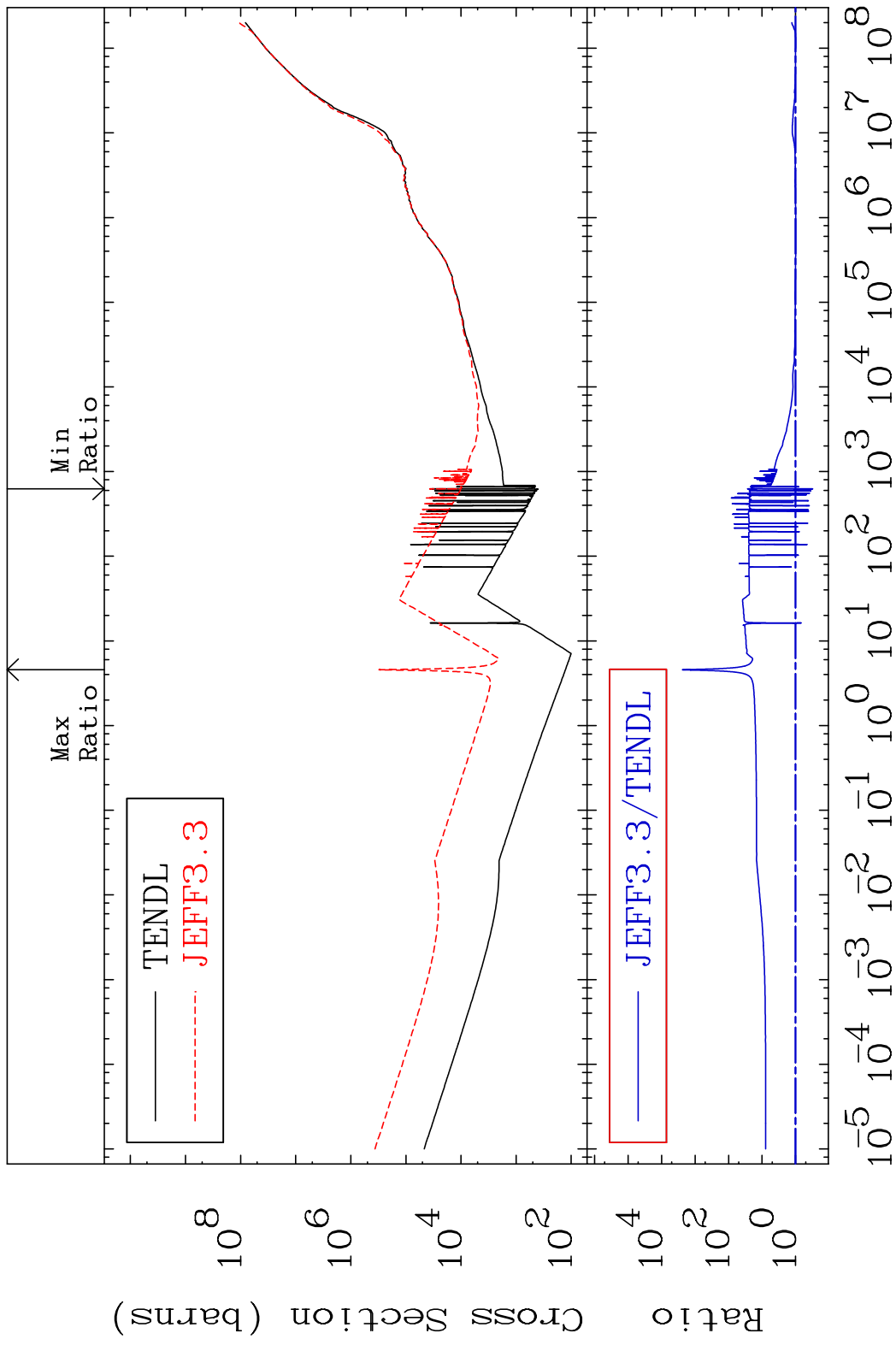
Total photon (eV-barns) 64-Gd-150  
Cross Section -100.0 To 9999. %



67

Incident Energy (eV) 64-Gd-150

MAT 6419 Total kinematic kerma (high limit) 64-Gd-150  
 Cross Section -68.85 To 9999. %

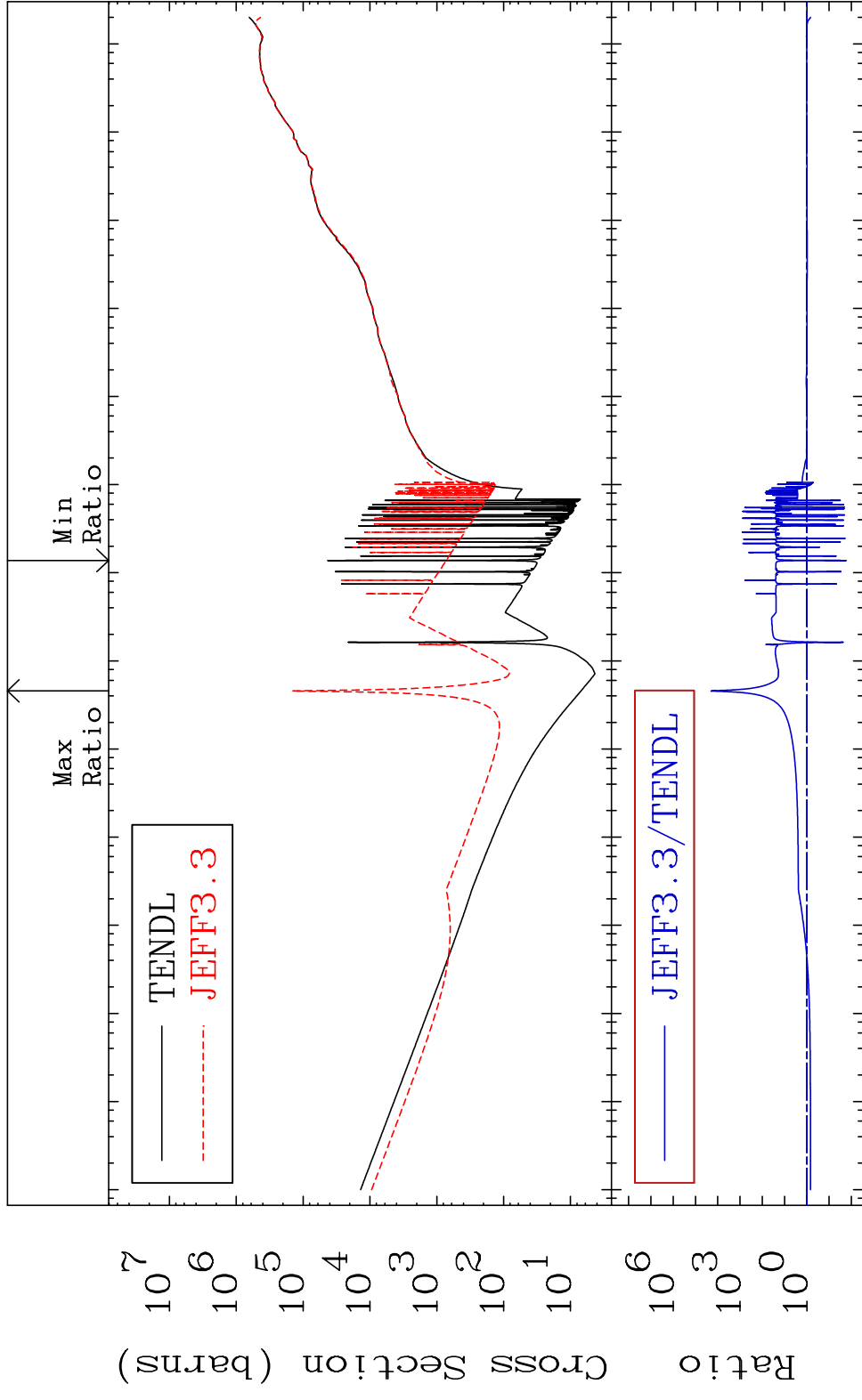


MAT 6419

Dpa total (eV-barns)

64-Gd-150

Cross Section -98.31 To 9999. %



69

Incident Energy (eV)

64-Gd-150

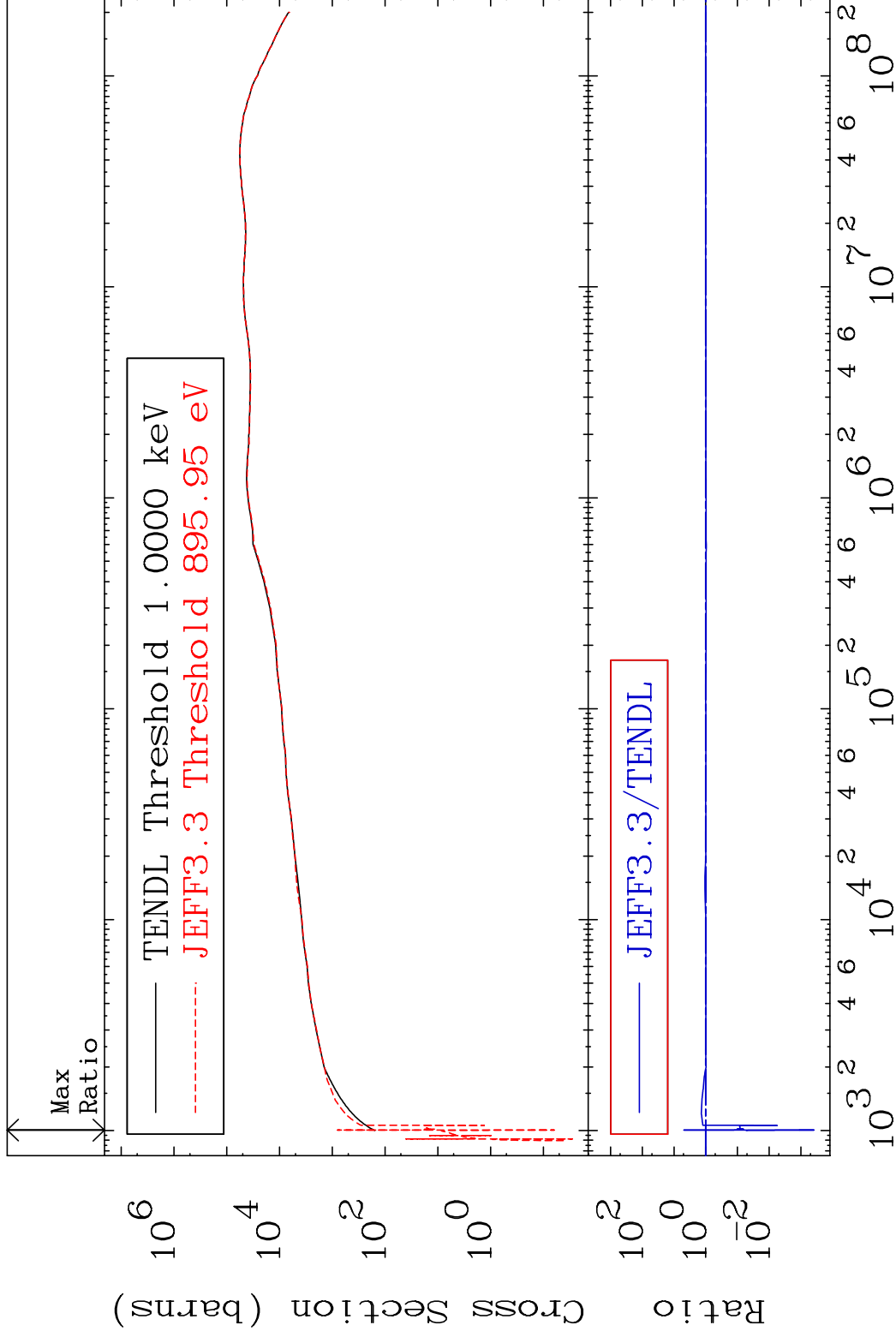
MAT 6419

Dpa elastic (mt2)

64-Gd-150

Cross Section

-99.96 To 396.9 %

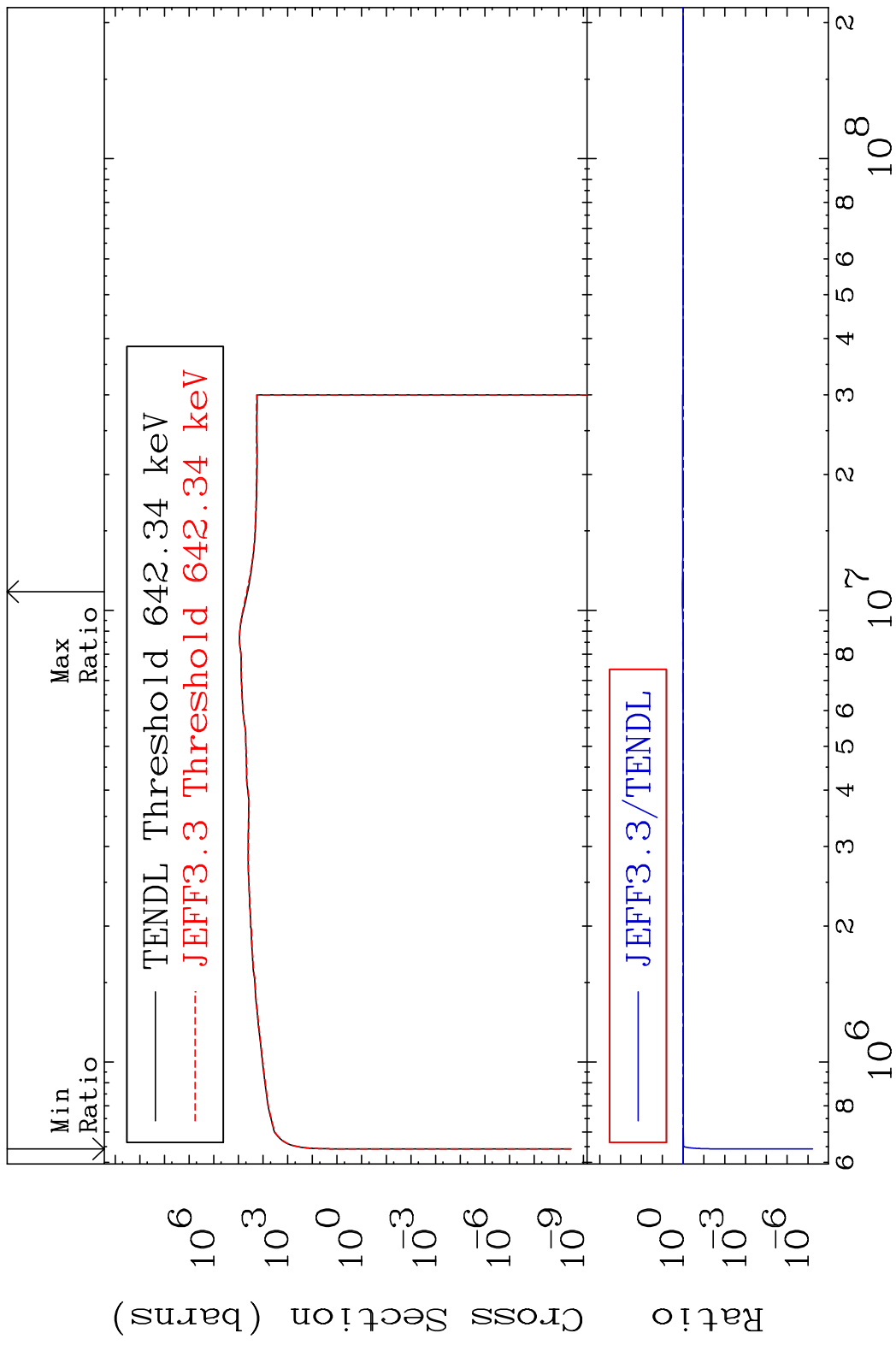


70

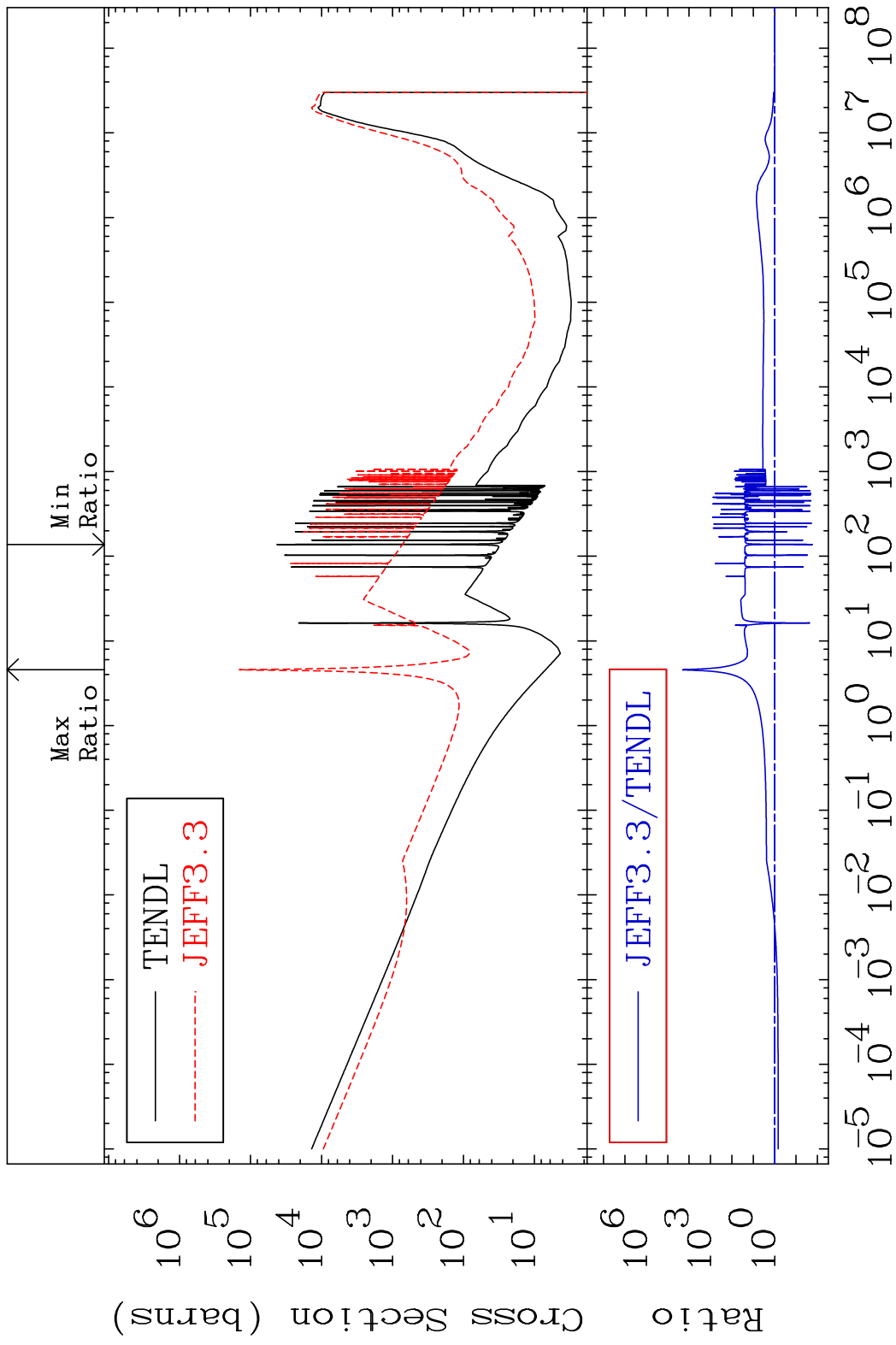
Incident Energy (eV)

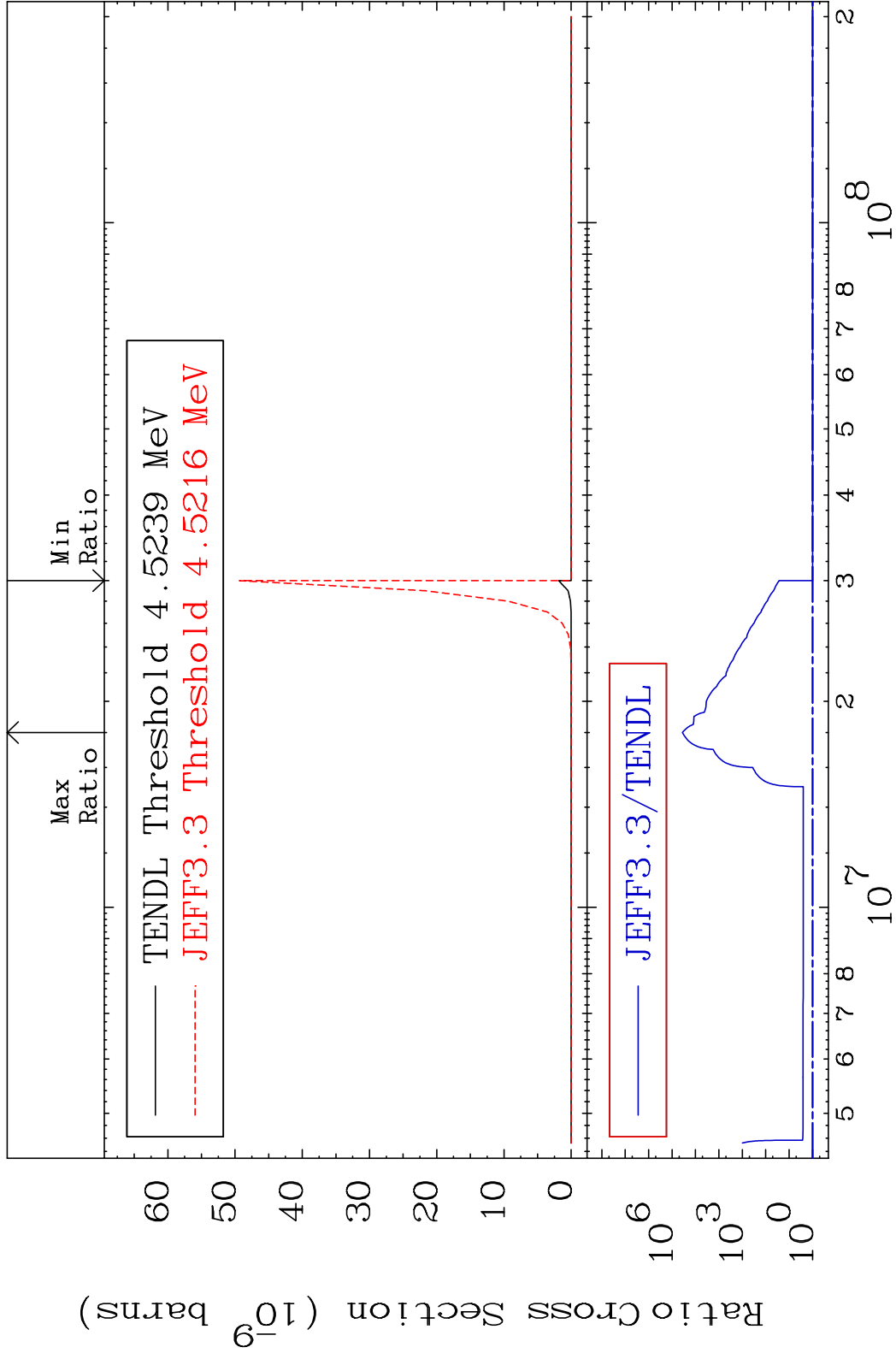
64-Gd-150

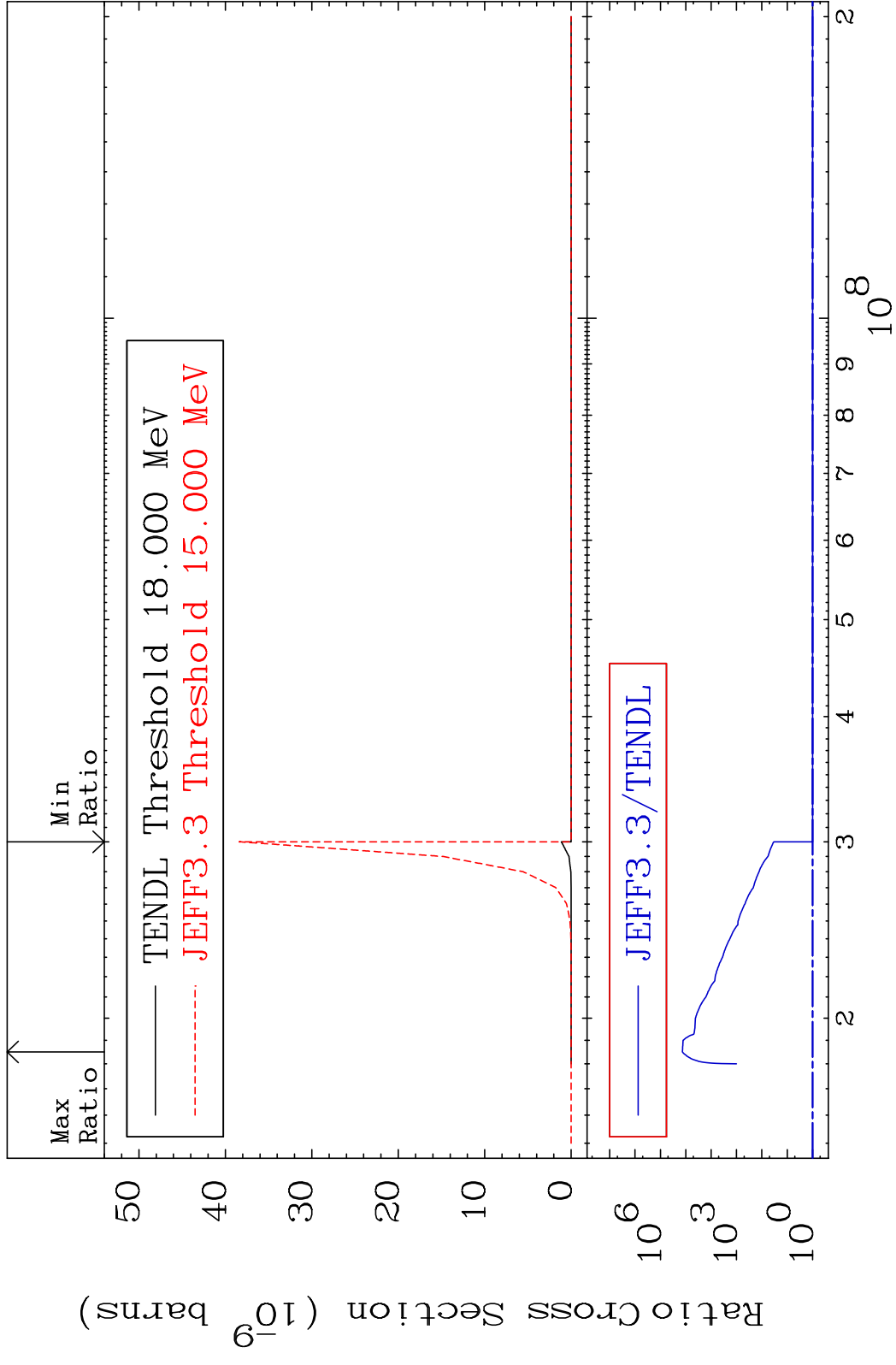
MAT 6419 Dpa inelastic (mt51-91) 64-Gd-150  
 Cross Section -100.0 To 7.977 %



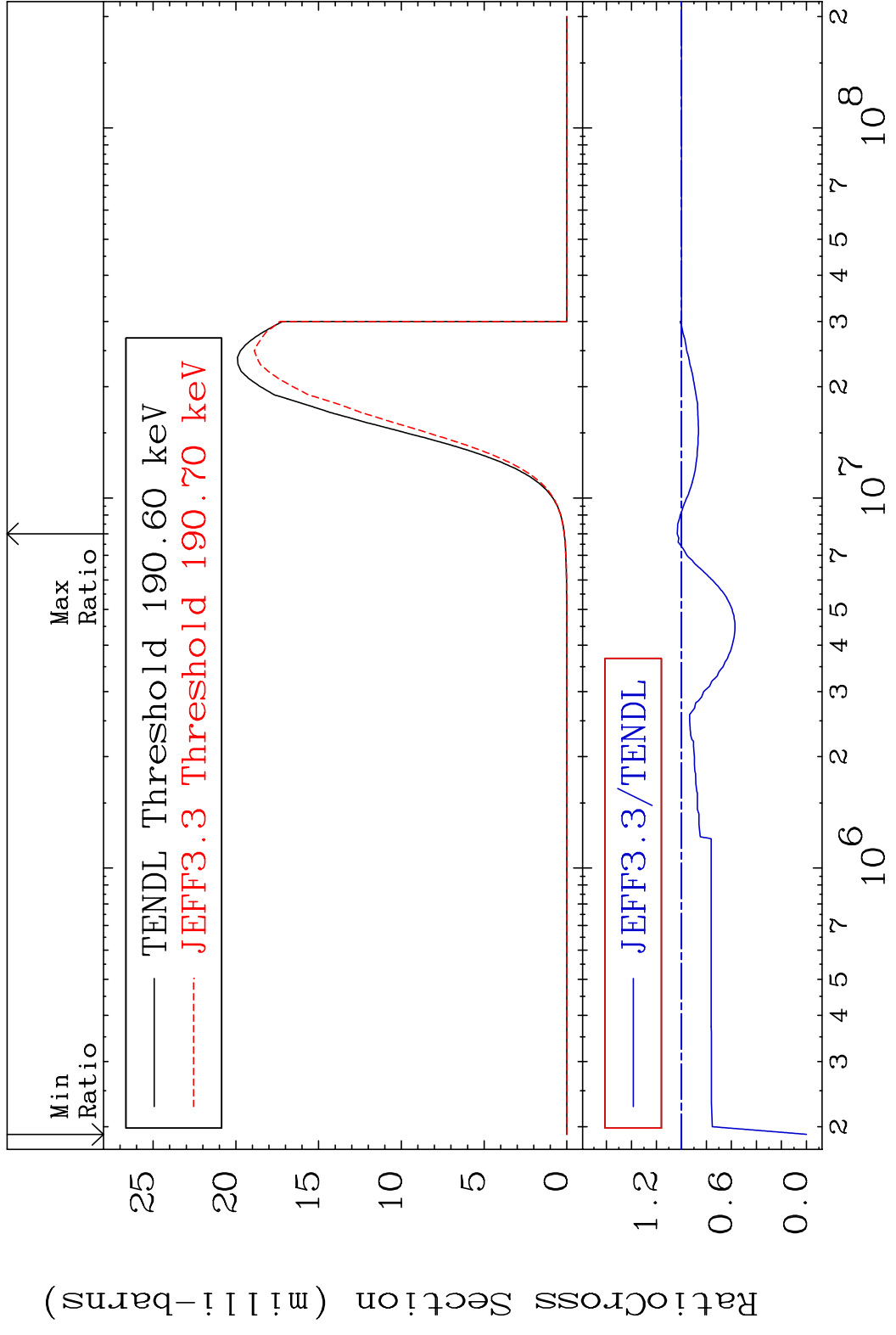
MAT 6419 Dpa disappearance (mt102 -120) 64-Gd-150  
 Cross Section -98.31 To 9999. %







MAT 6419 (n,p):63-Eu-150g 64-Gd-150  
 Radionuclide Production Cross Section Ratio 3.379 %



MAT 6419 (n, p) : 63-Eu-150m1 64-Gd-150  
 Radionuclide Production Cross Section Ratio 7.170 %

