

Program Complot  
(Version 2021-1)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550

U.S.A.

Tele: 925-443-1911

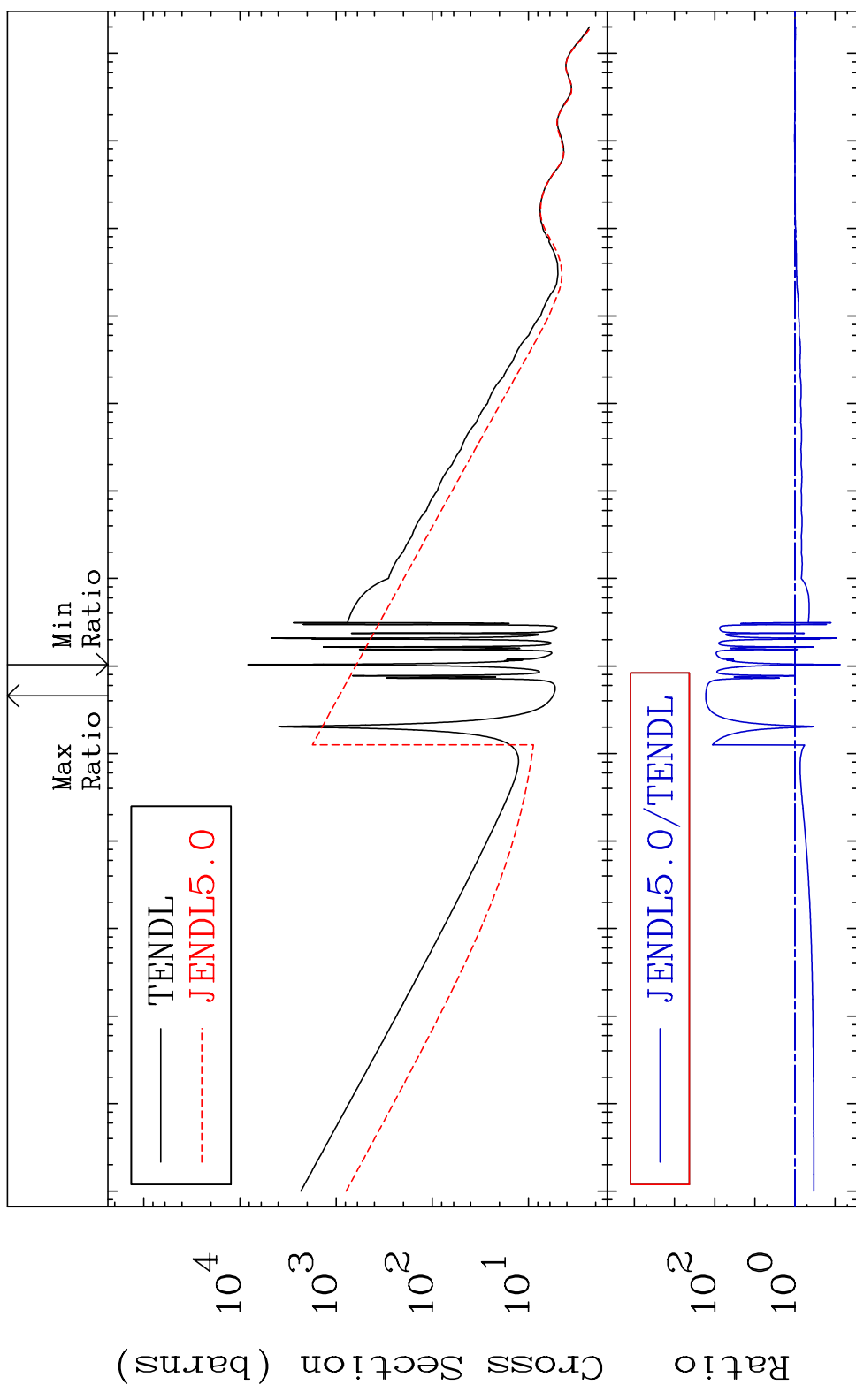
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6313

Total  
Cross Section -92.62 To 9999. %

63-Eu-147



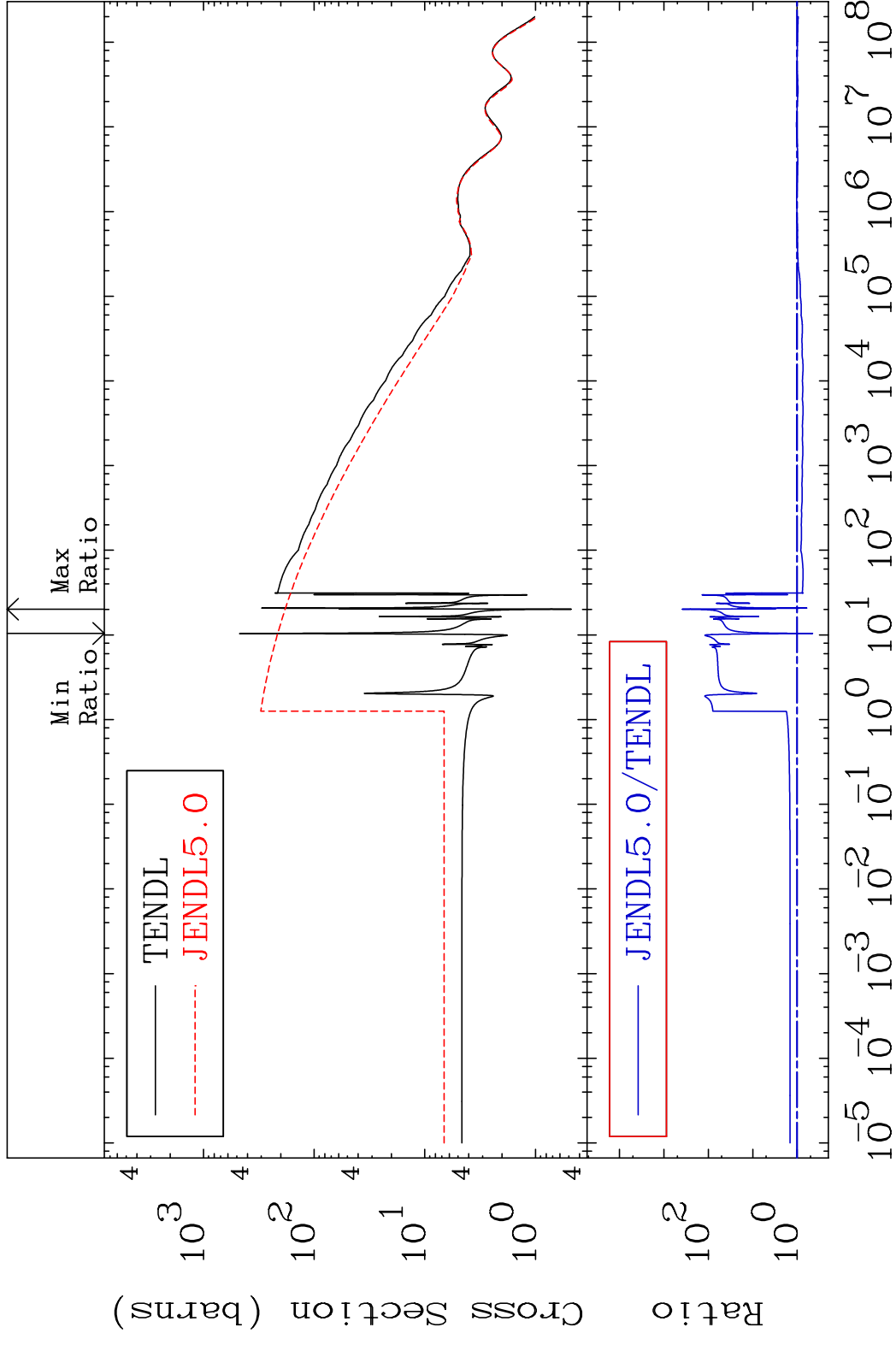
1 Incident Energy (eV) 63-Eu-147

MAT 6313

Elastic

63-Eu-147

Cross Section -54.98 To 9999. %

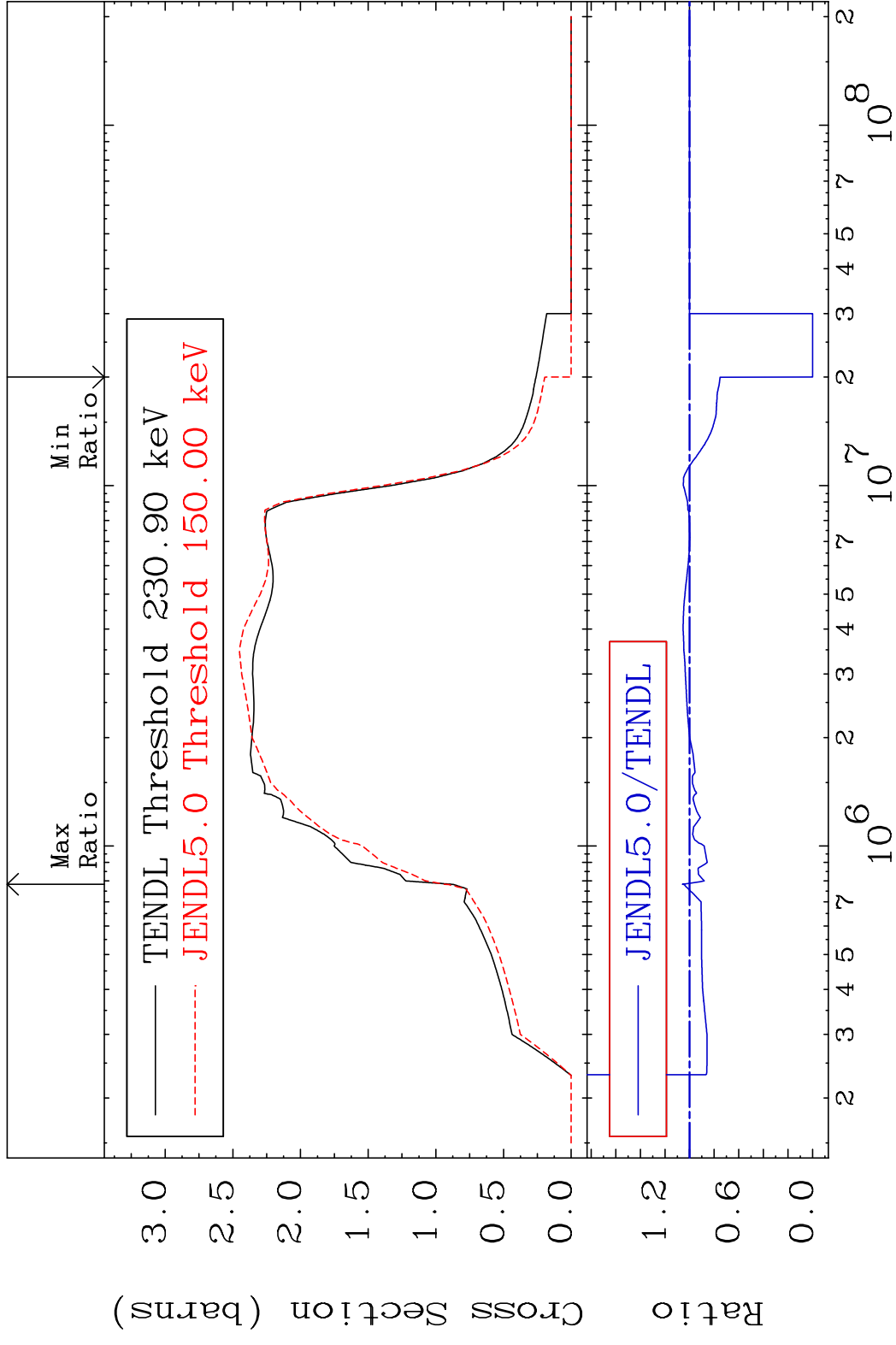


2

Incident Energy (eV)

63-Eu-147

MAT 6313 Inelastic Cross Section -100.0 To 5.862 % 63-Eu-147

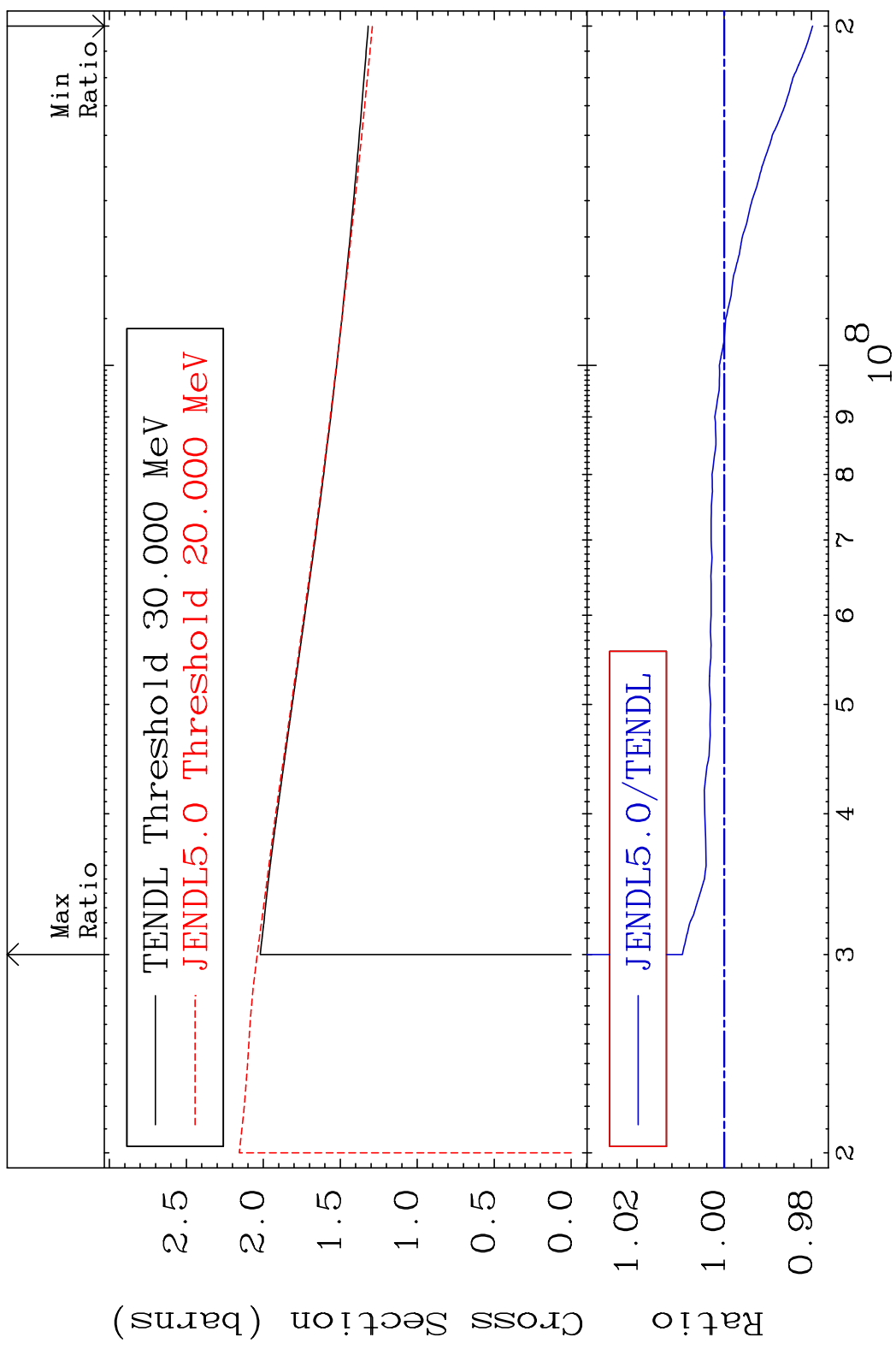


MAT 6313

(n, remainder)

63-Eu-147

Cross Section -2.025 To 0.960 %



4

Incident Energy (eV)

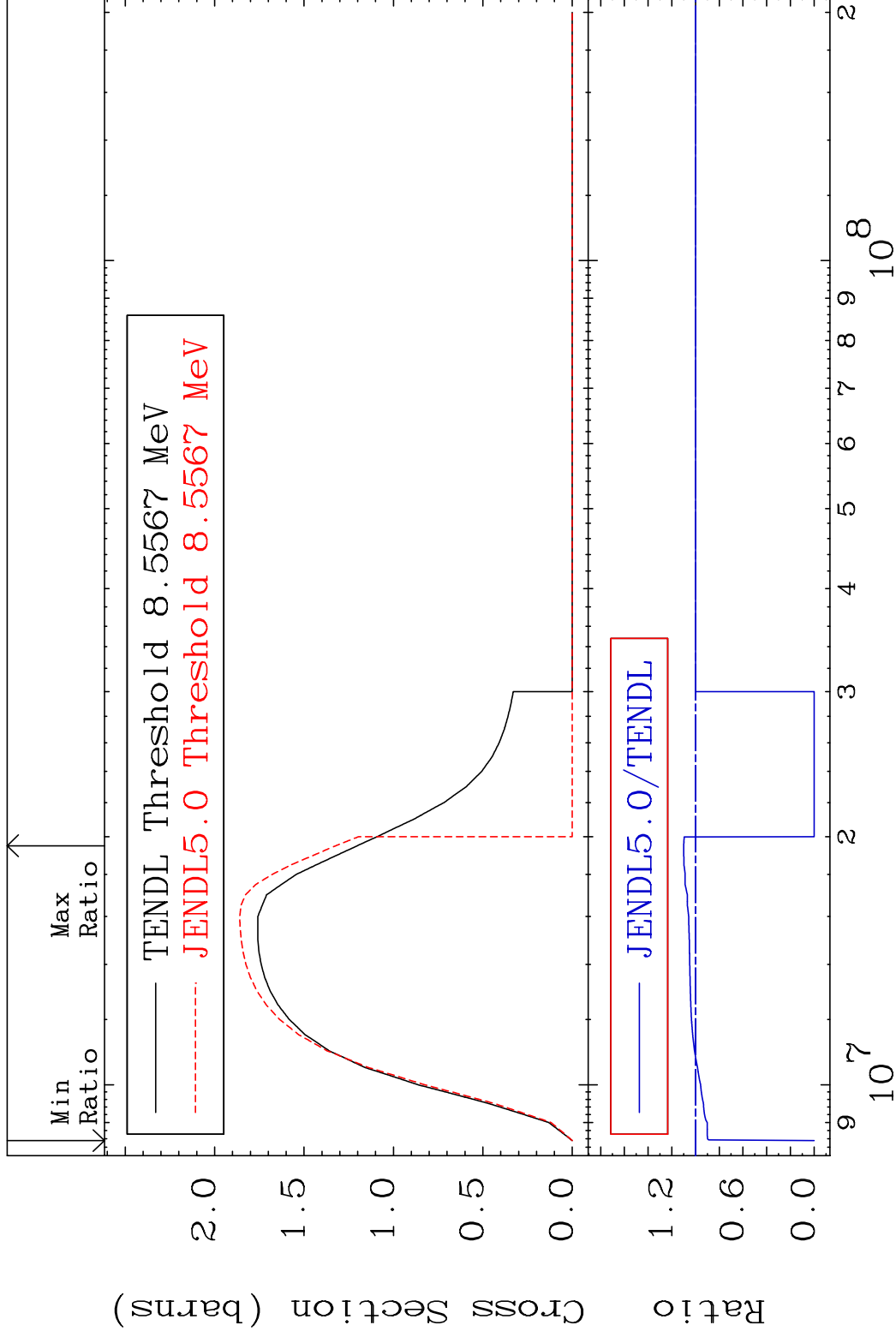
63-Eu-147

MAT 6313

(n,2n)

63-Eu-147

Cross Section -100.0 To 10.01 %



5

Incident Energy (eV)

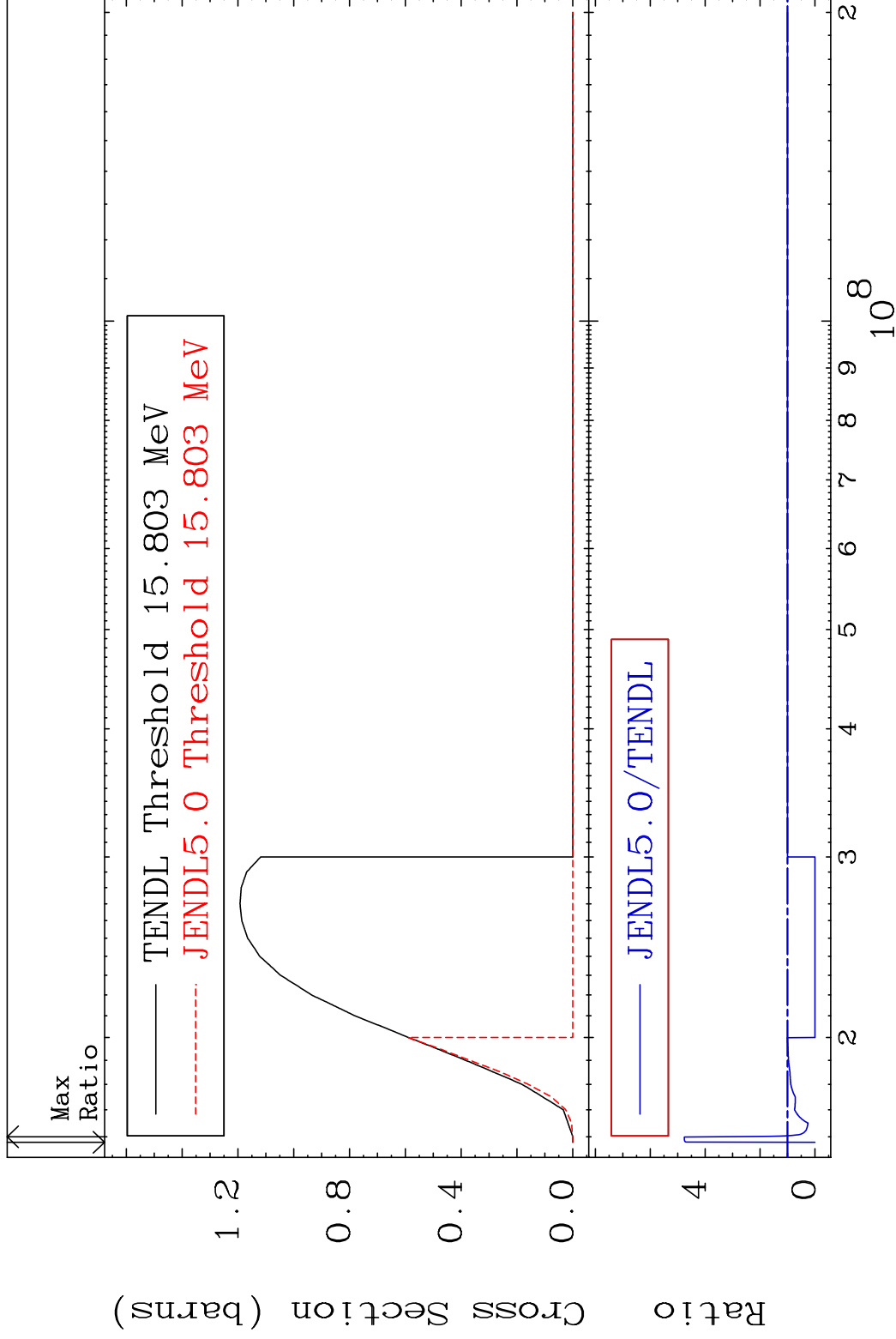
63-Eu-147

MAT 6313

(n,3n)

63-Eu-147

Cross Section -100.0 To 375.8 %



6

Incident Energy (eV)

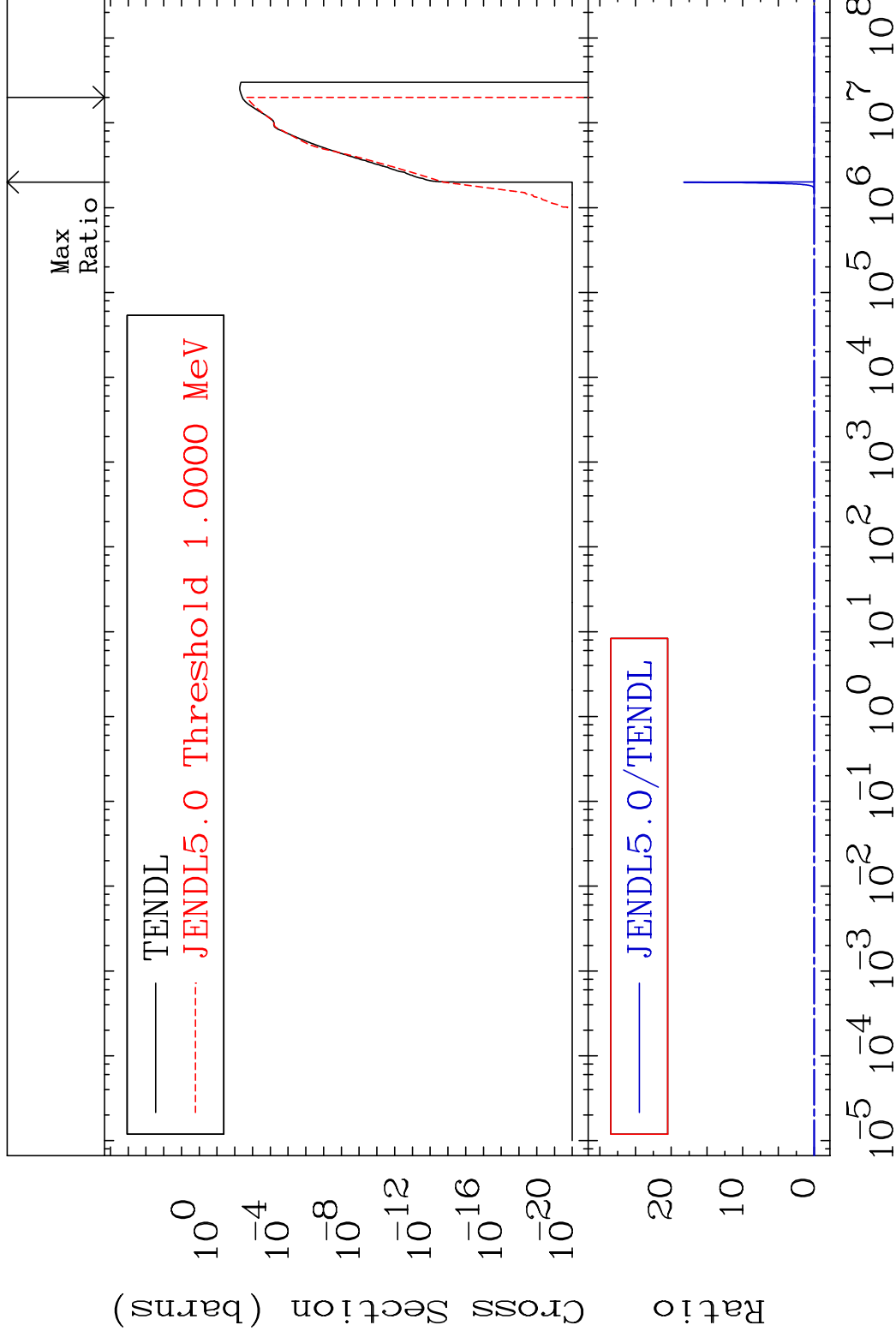
63-Eu-147

MAT 6313

(n, n')  $\alpha$

63-Eu-147

Cross Section -100.0 To 9999. %



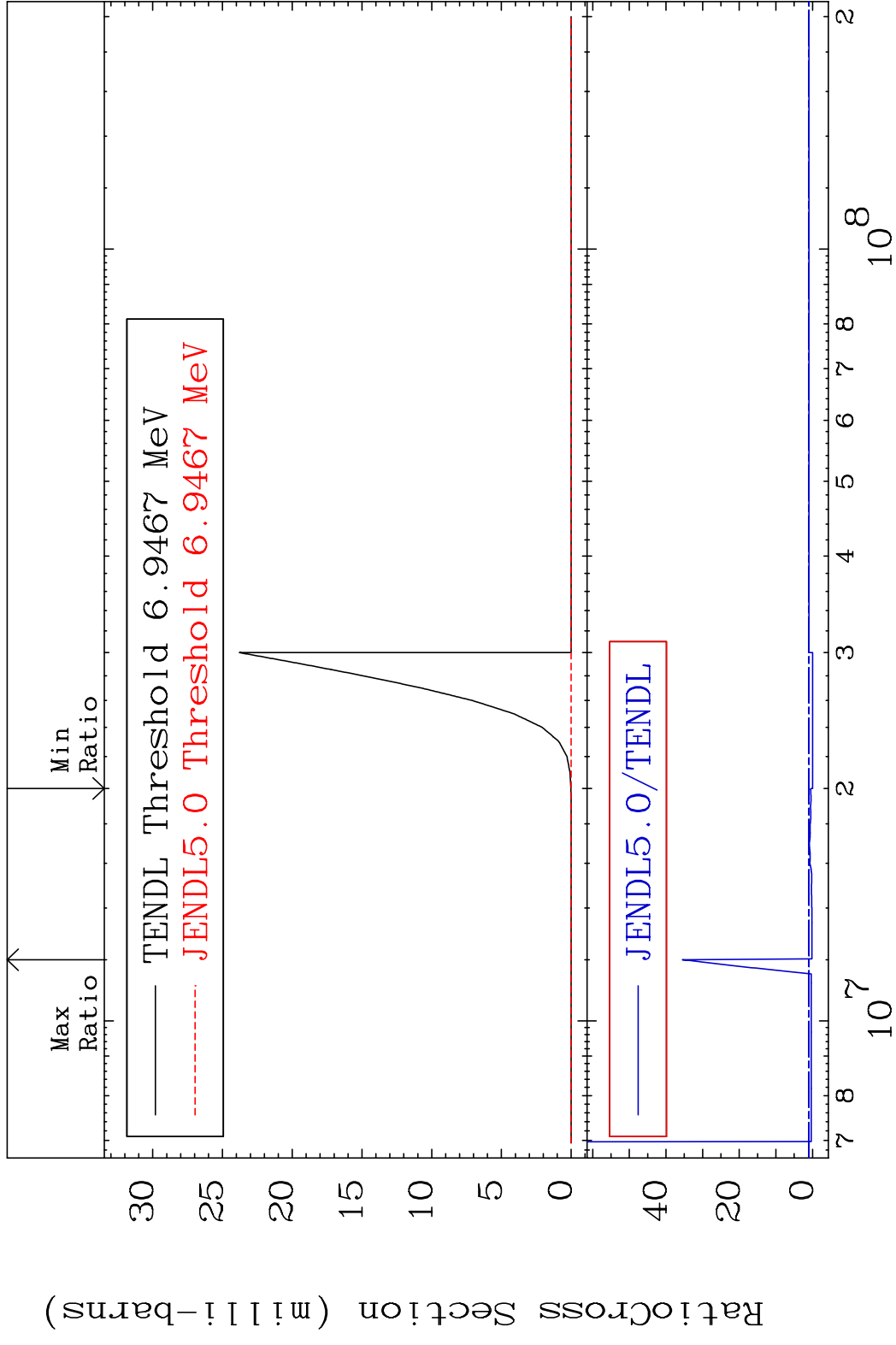
7

Incident Energy (eV)

63-Eu-147

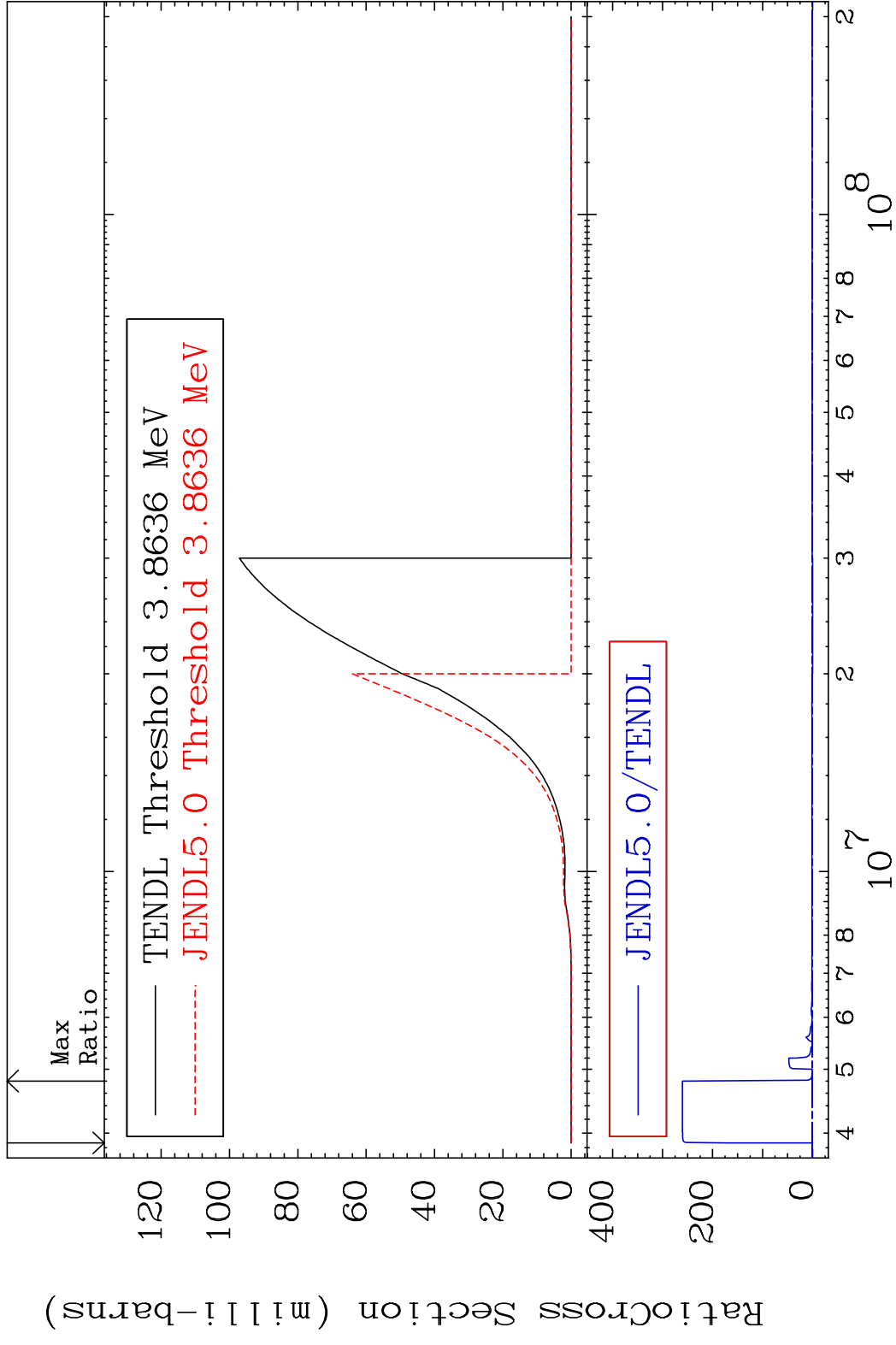


MAT 6313 (n,2n)  $\alpha$  63-Eu-147  
 Cross Section -100.0 To 3453. %



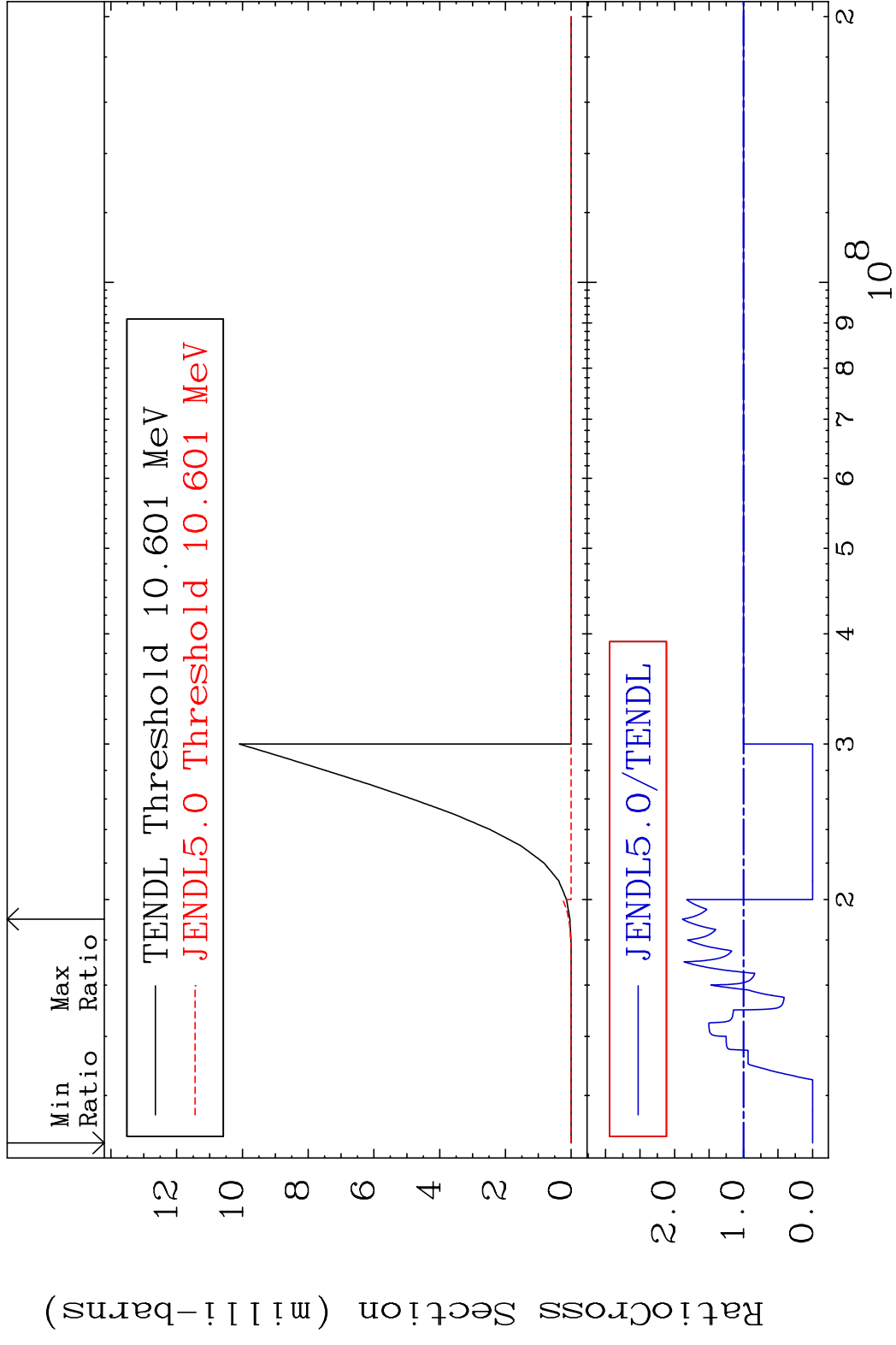
8 Incident Energy (eV) 63-Eu-147

MAT 6313 (n, n') p 63-Eu-147  
 Cross Section -100.0 To 9999. %

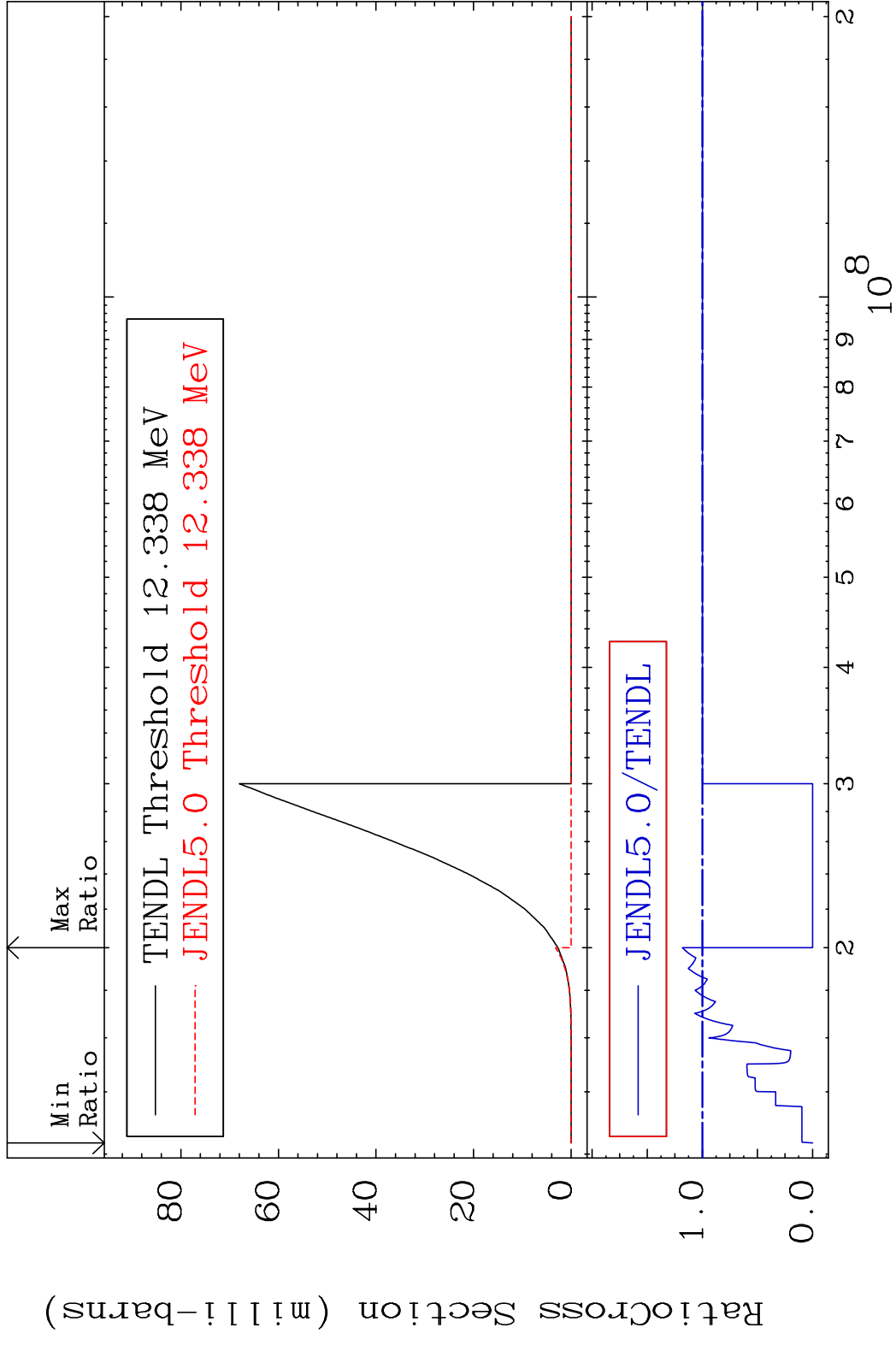




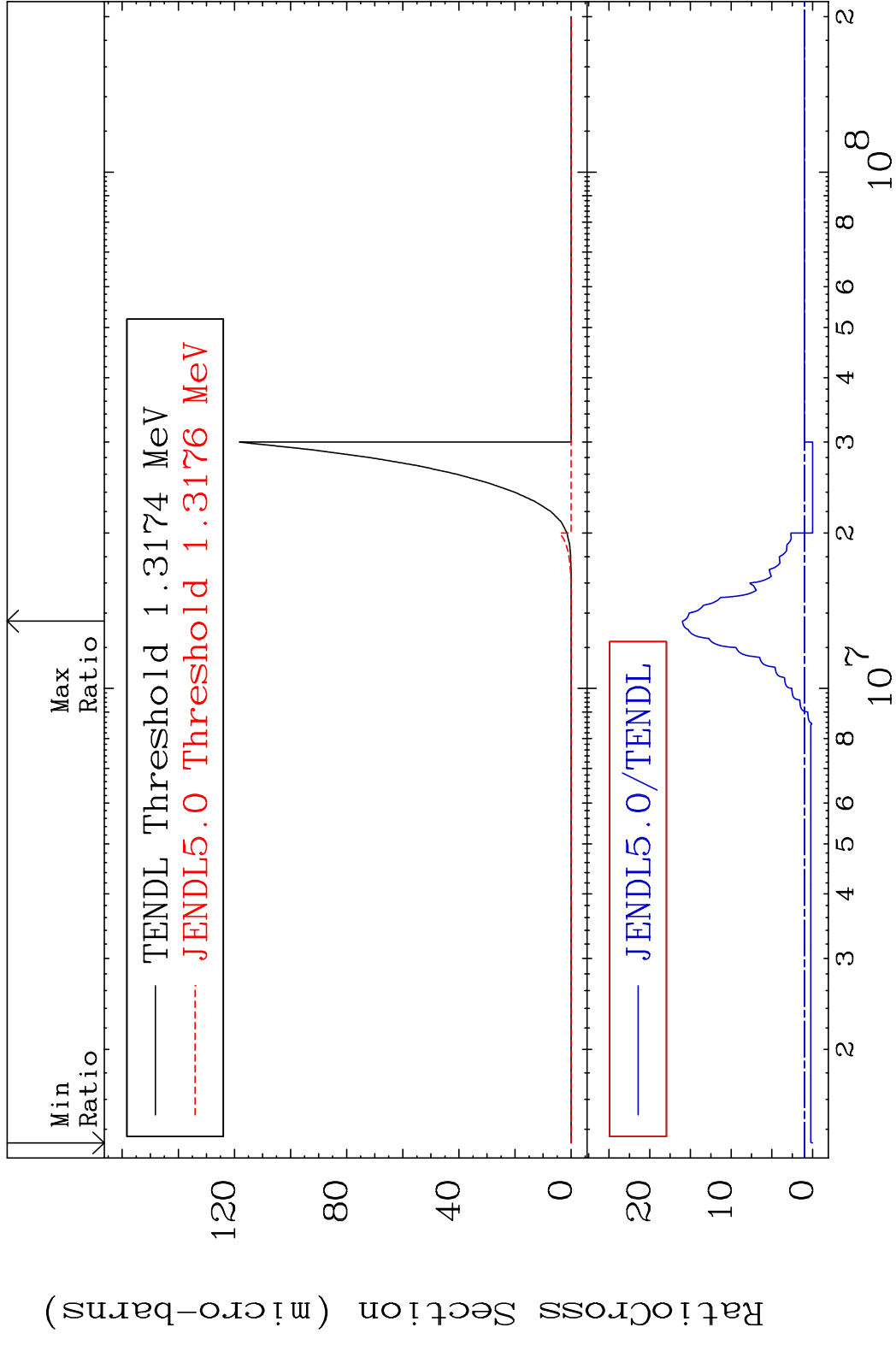
MAT 6313 (n, n') t 63-Eu-147  
 Cross Section -100.0 To 88.65 %



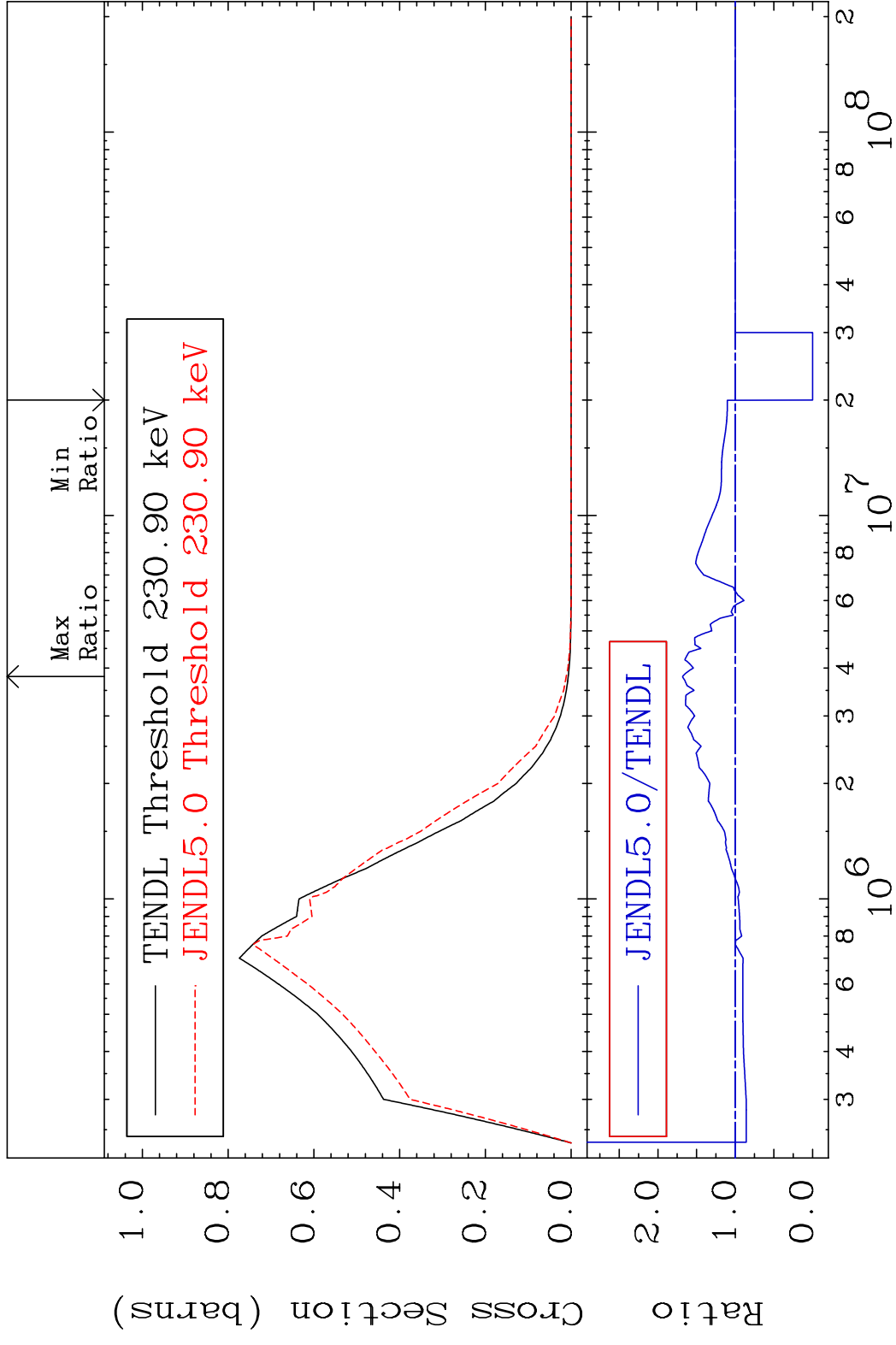
MAT 6313 (n,2n) p 63-Eu-147  
 Cross Section -100.0 To 18.14 %



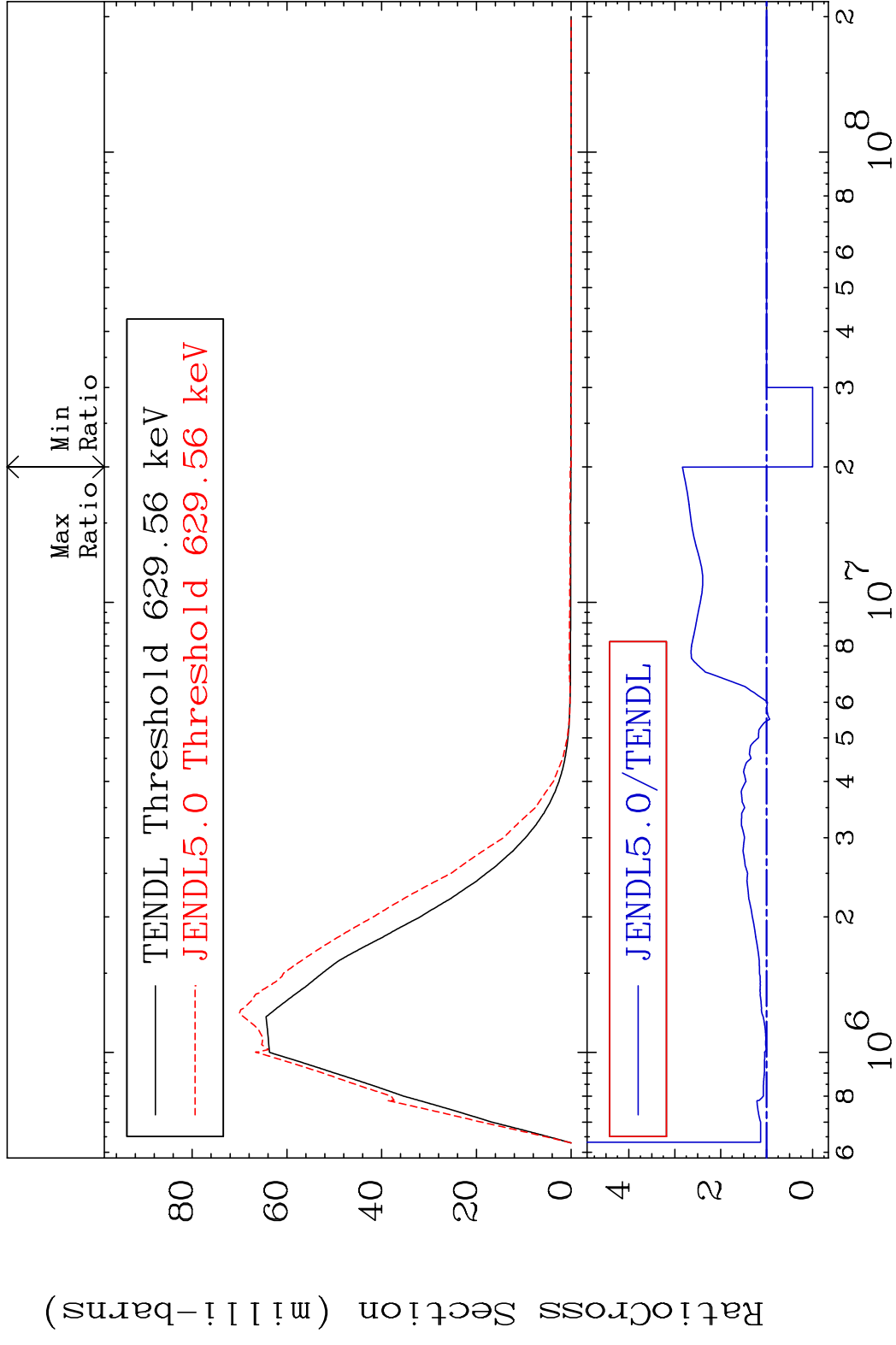
MAT 6313 (n, n') p α 63-Eu-147  
 Cross Section -100.0 To 1499. %



MAT 6313 MT= 51 (n, n') Level 63-Eu-147  
 Cross Section -100.0 To 68.39 %

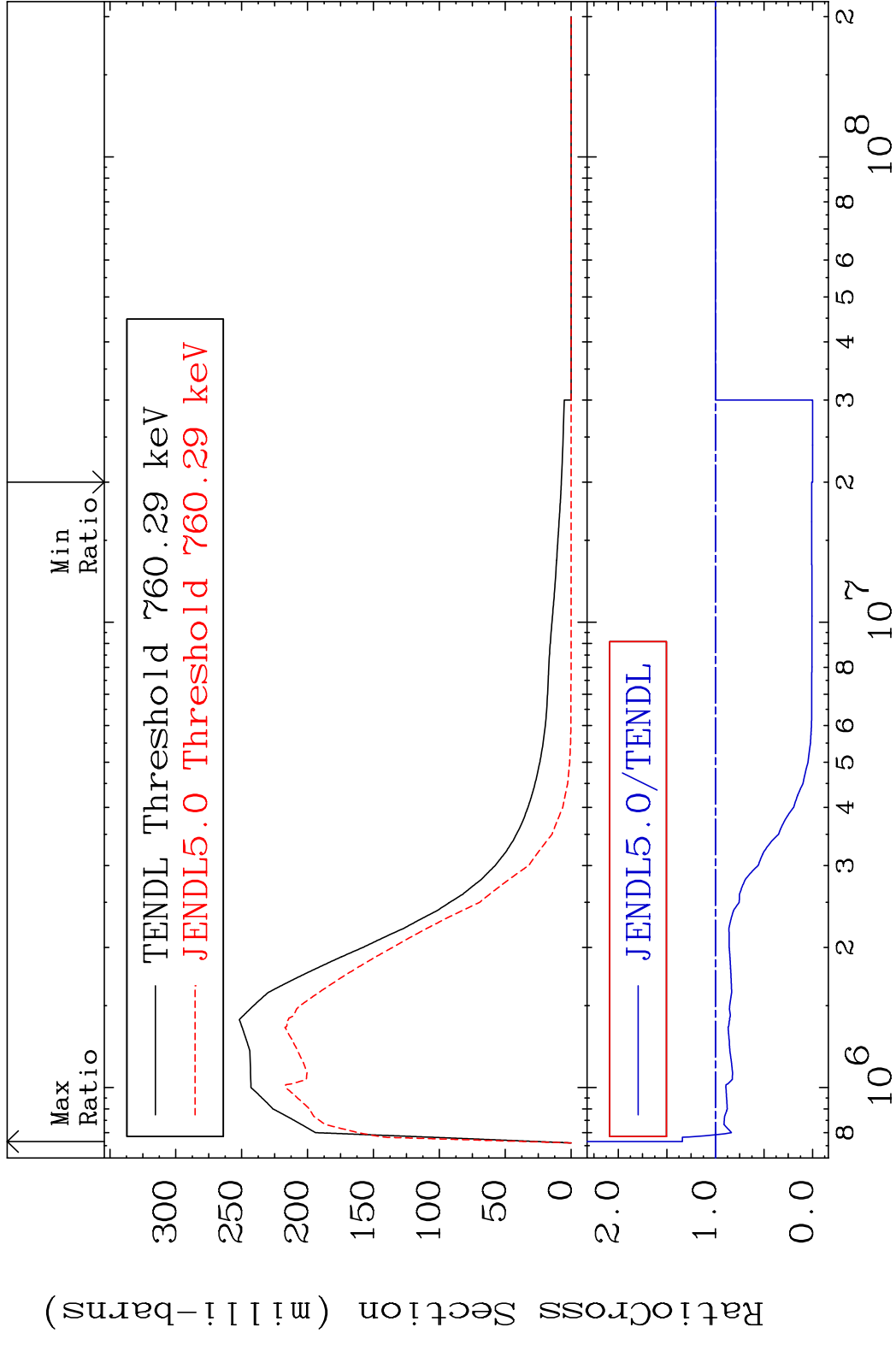


MAT 6313 MT= 52 (n, n') Level 63-Eu-147  
 Cross Section -100.0 To 183.6 %



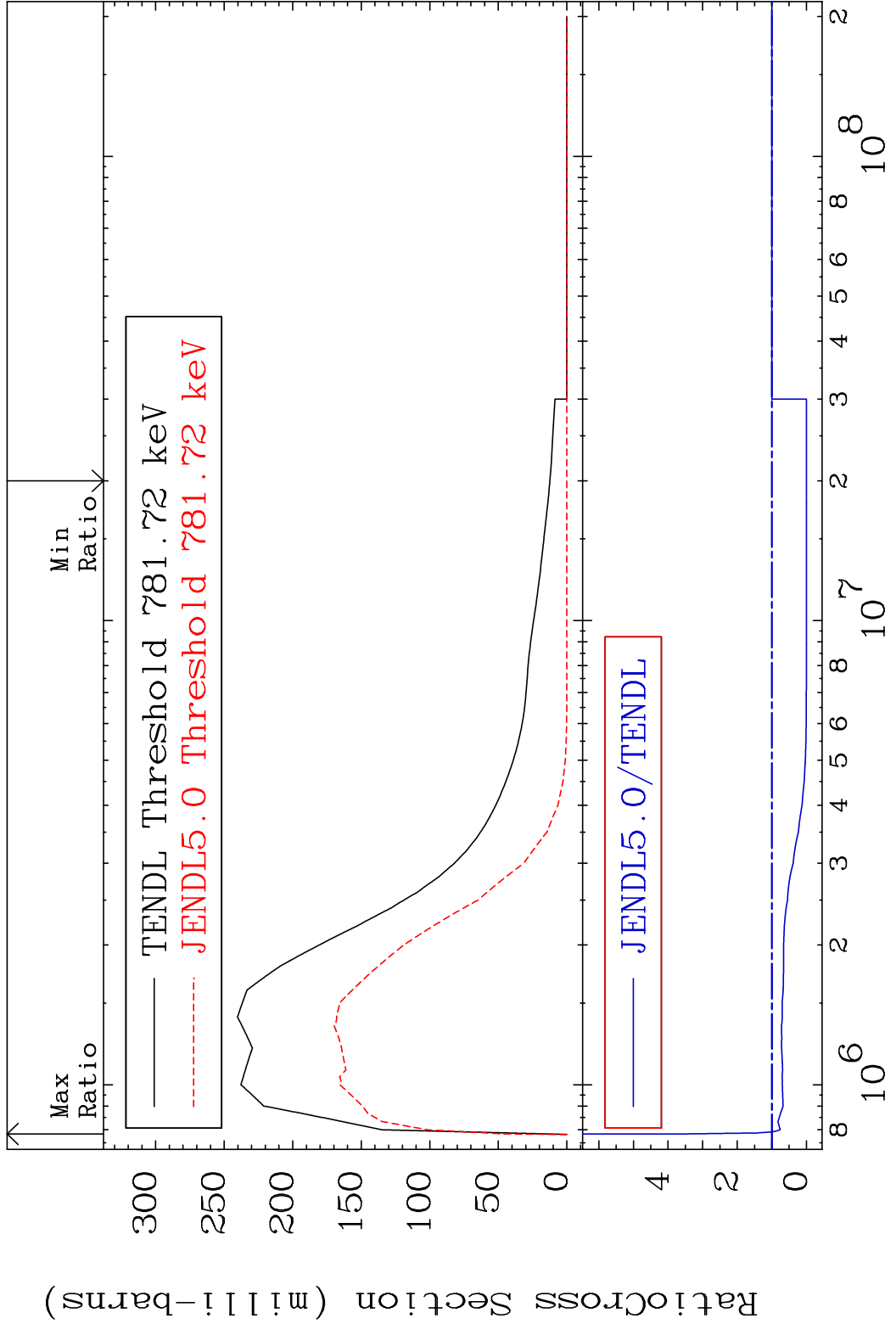


MAT 6313 MT= 53 (n, n') Level 63-Eu-147  
 Cross Section -100.0 To 34.04 %



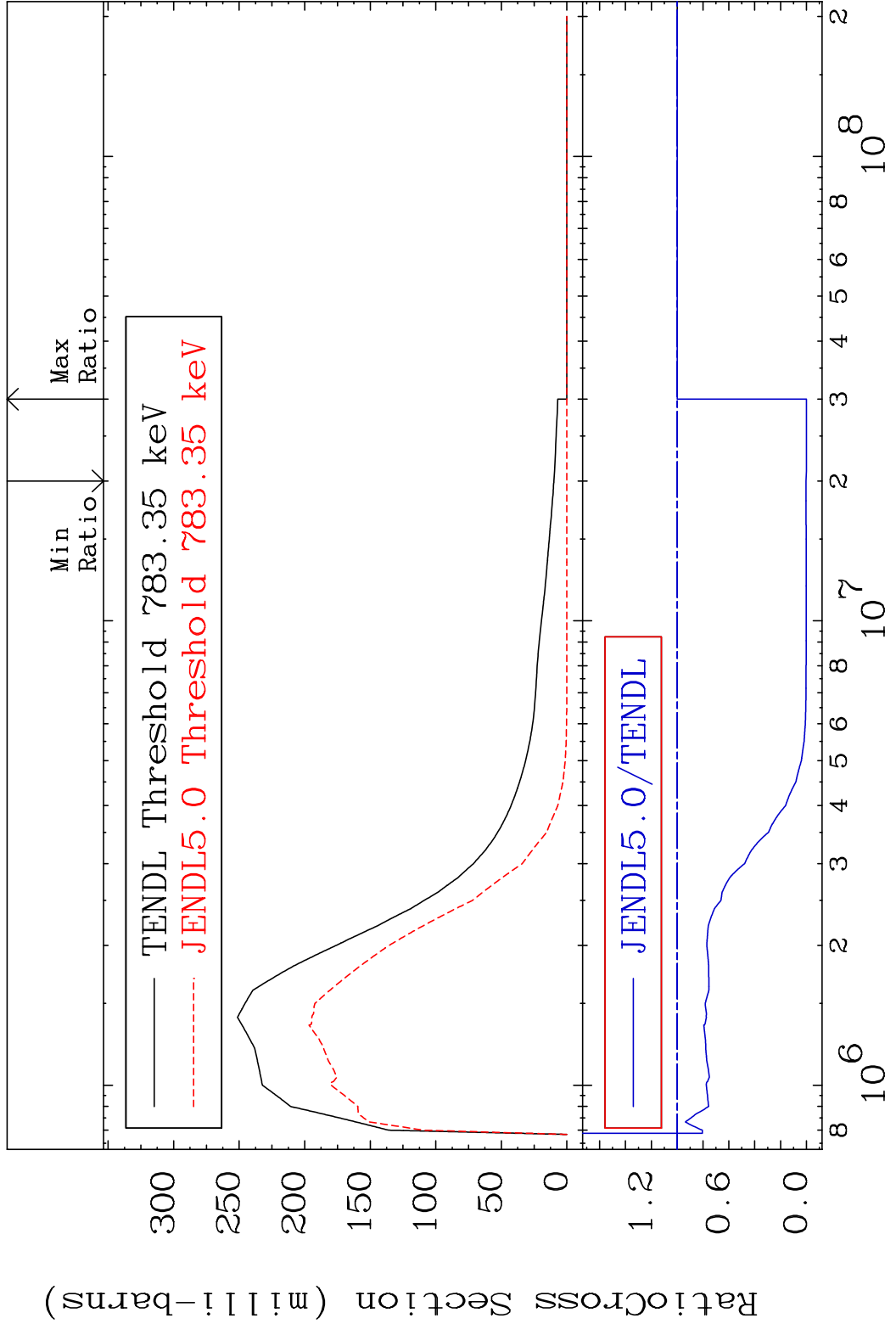
16 Incident Energy (eV) 63-Eu-147

MAT 6313 MT= 54 (n, n') Level 63-Eu-147  
 Cross Section -100.0 To 273.6 %



17 Incident Energy (eV) 63-Eu-147

MAT 6313 MT= 55 (n, n') Level 63-Eu-147  
 Cross Section -100.0 To 0.000 %



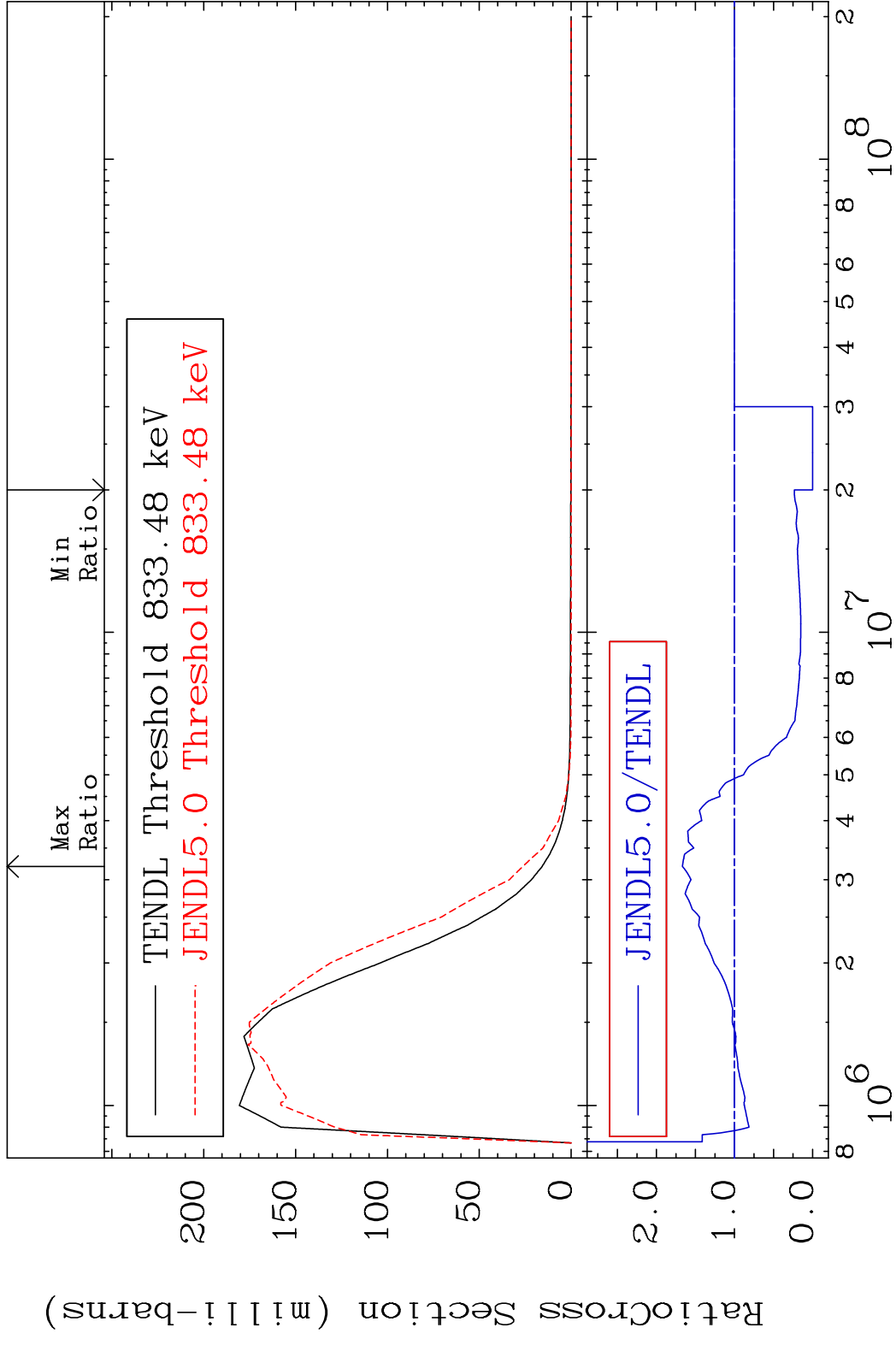
18 18 Incident Energy (eV) 63-Eu-147

MAT 6313

MT= 56 (n, n') Level

63-Eu-147

Cross Section -100.0 To 66.77 %

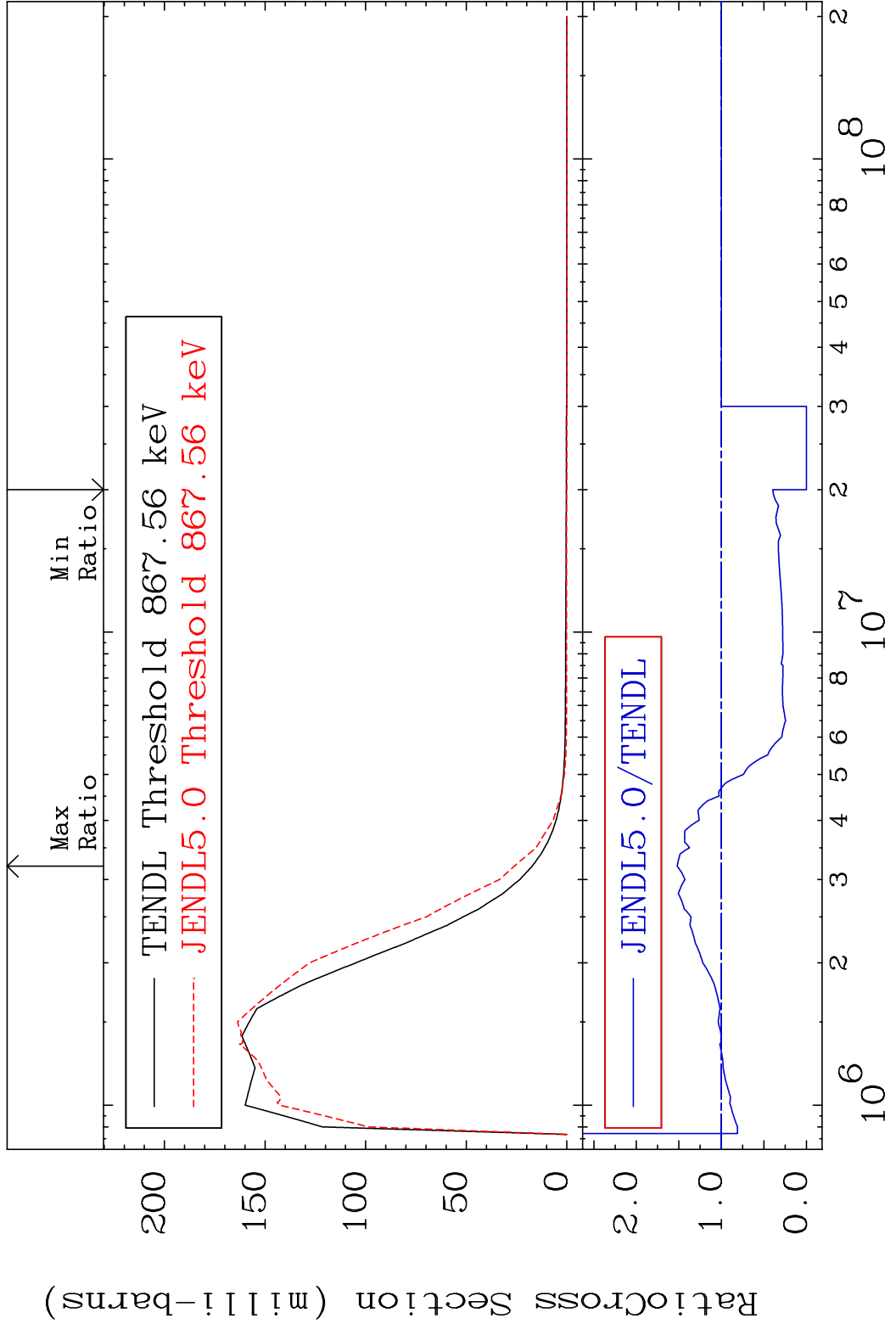


19

Incident Energy (eV)

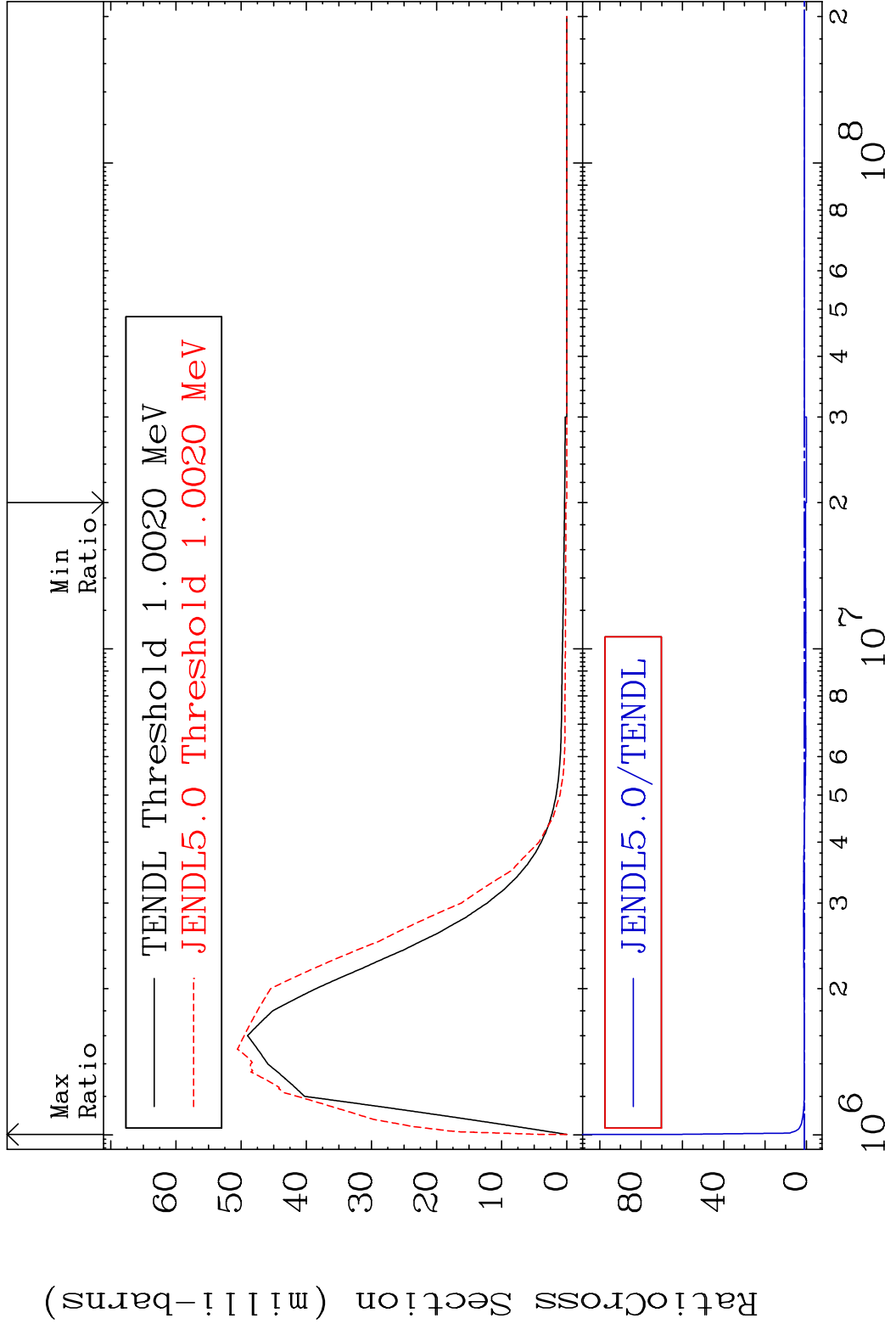
63-Eu-147

MAT 6313 MT= 57 (n, n') Level 63-Eu-147  
 Cross Section -100.0 To 51.99 %

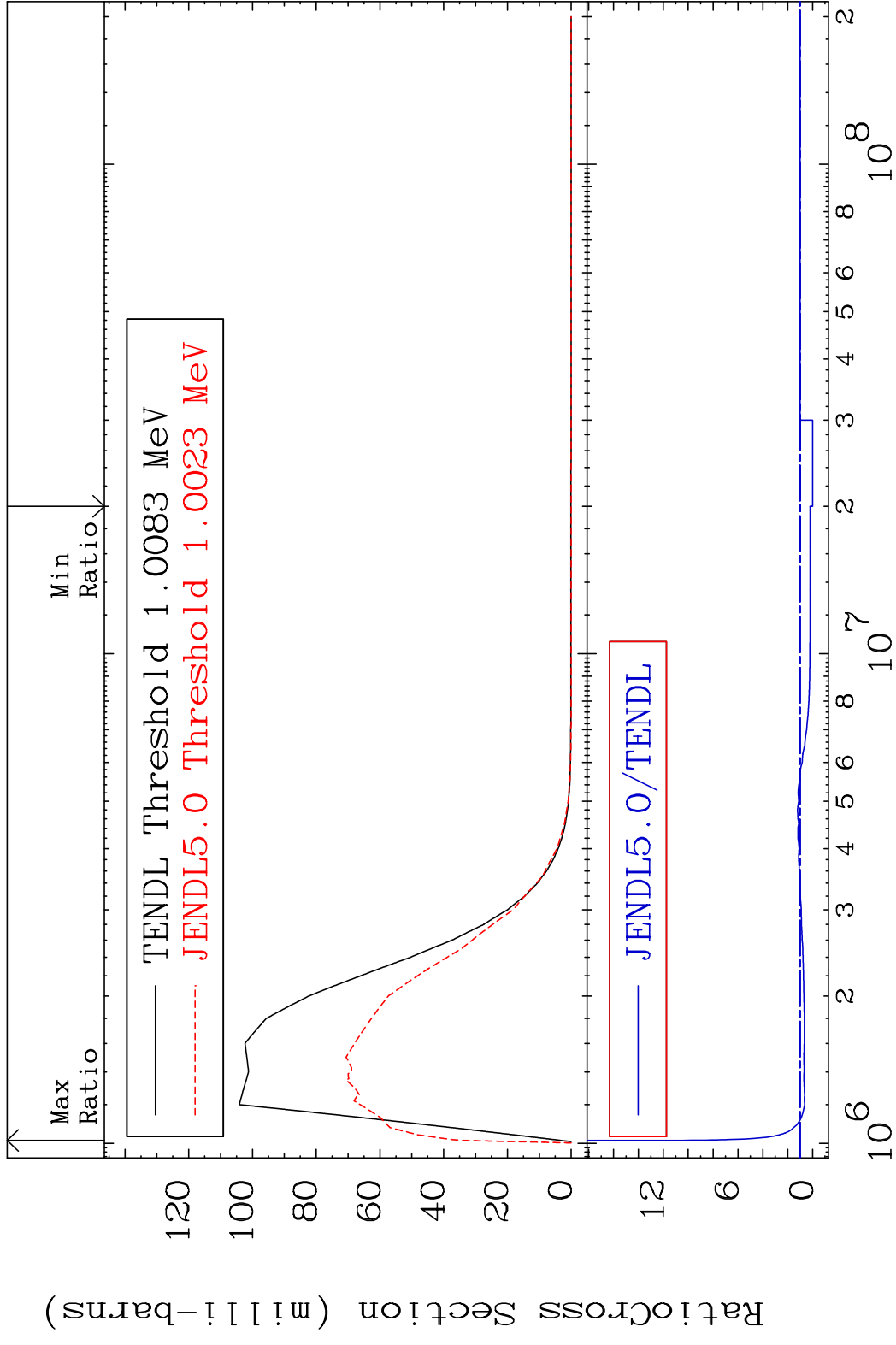


20 2 3 4 5 6 8 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup> 2 63-Eu-147

MAT 6313 MT= 58 (n, n') Level 63-Eu-147  
 Cross Section -100.0 To 6152. %

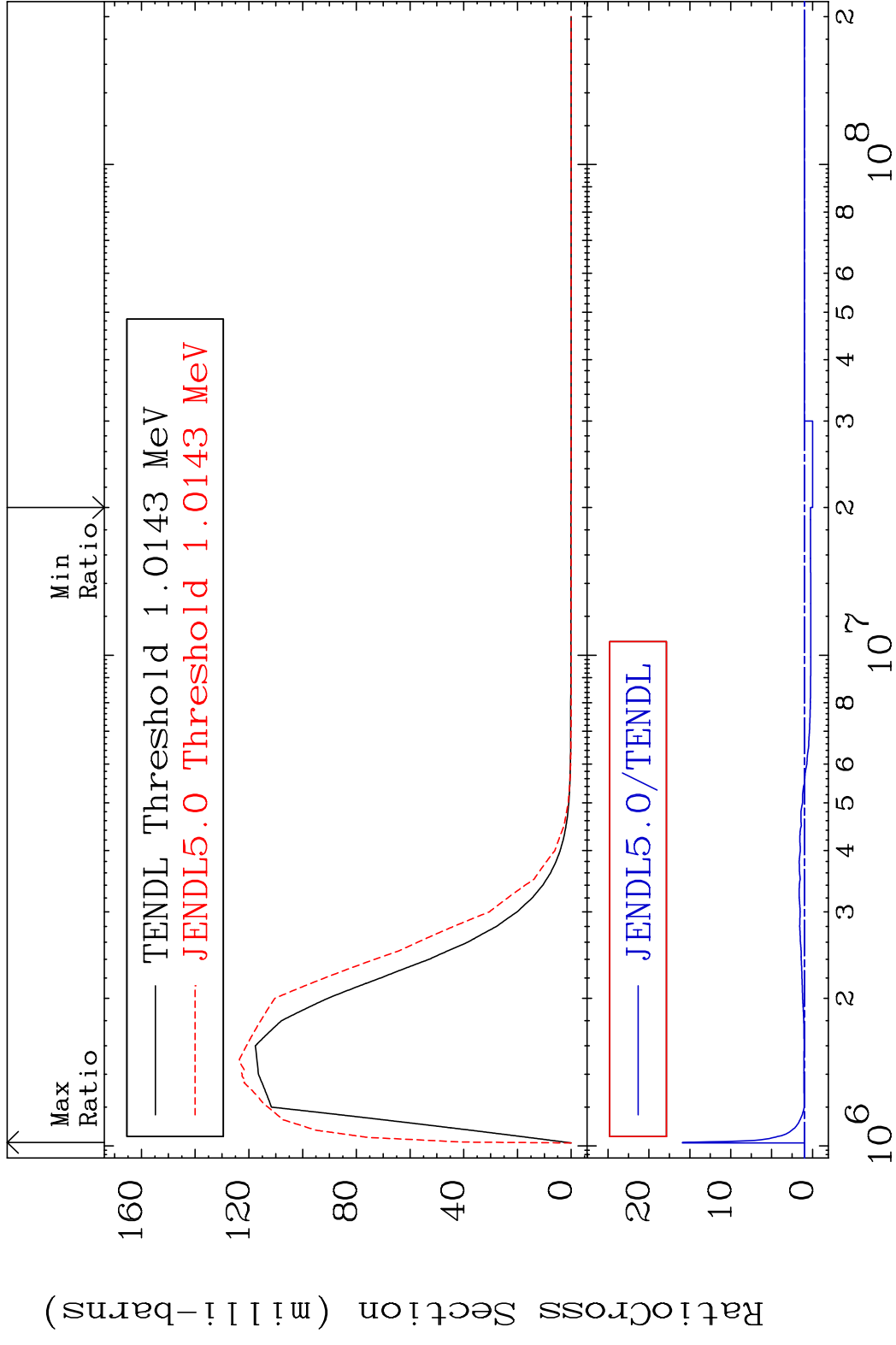


MAT 6313 MT= 59 (n, n') Level 63-Eu-147  
 Cross Section -100.0 To 947.0 %



22 Incident Energy (eV) 63-Eu-147

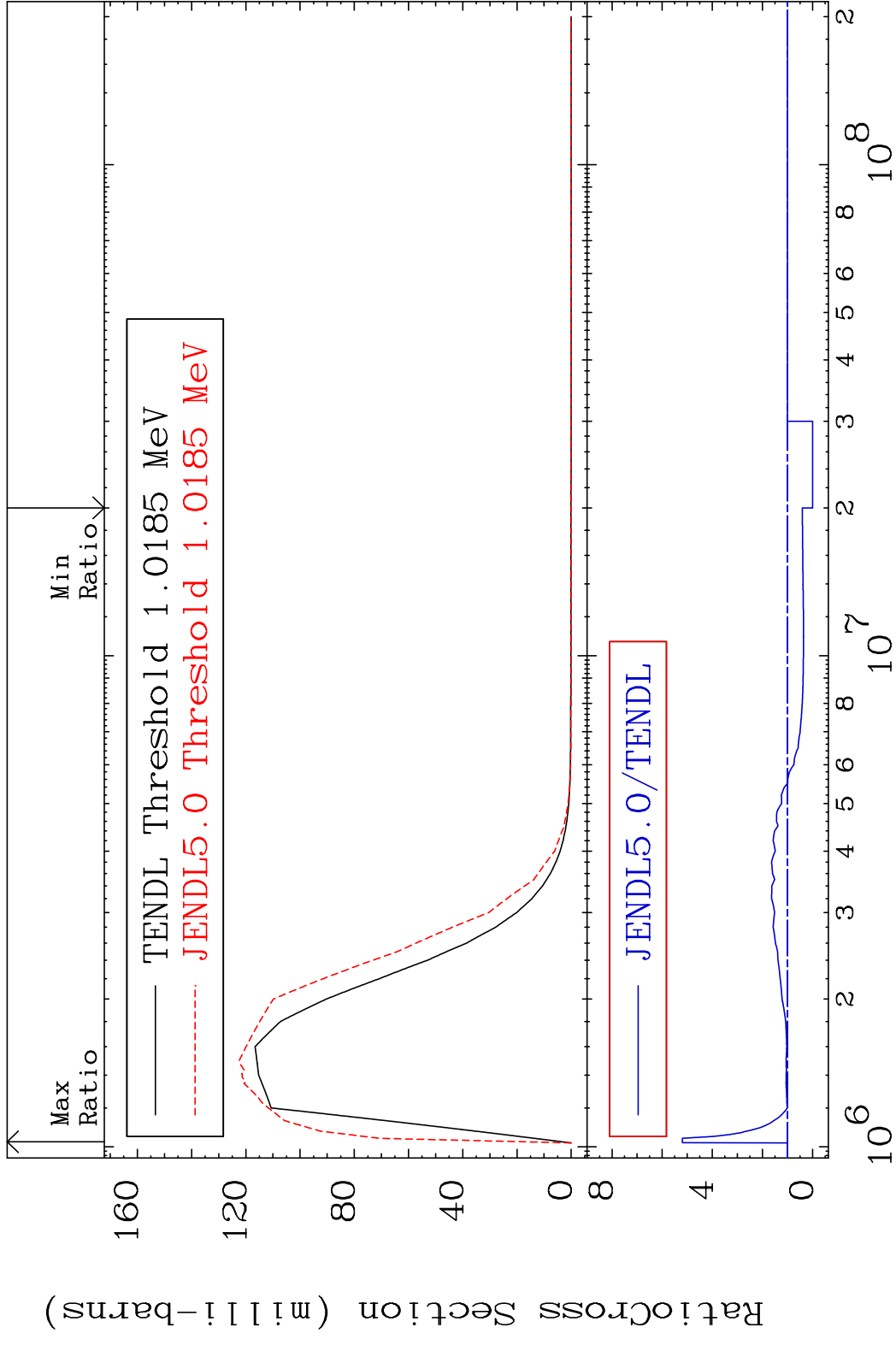
MAT 6313 MT= 60 (n, n') Level 63-Eu-147  
 Cross Section -100.0 To 1491. %



23 Incident Energy (eV) 63-Eu-147

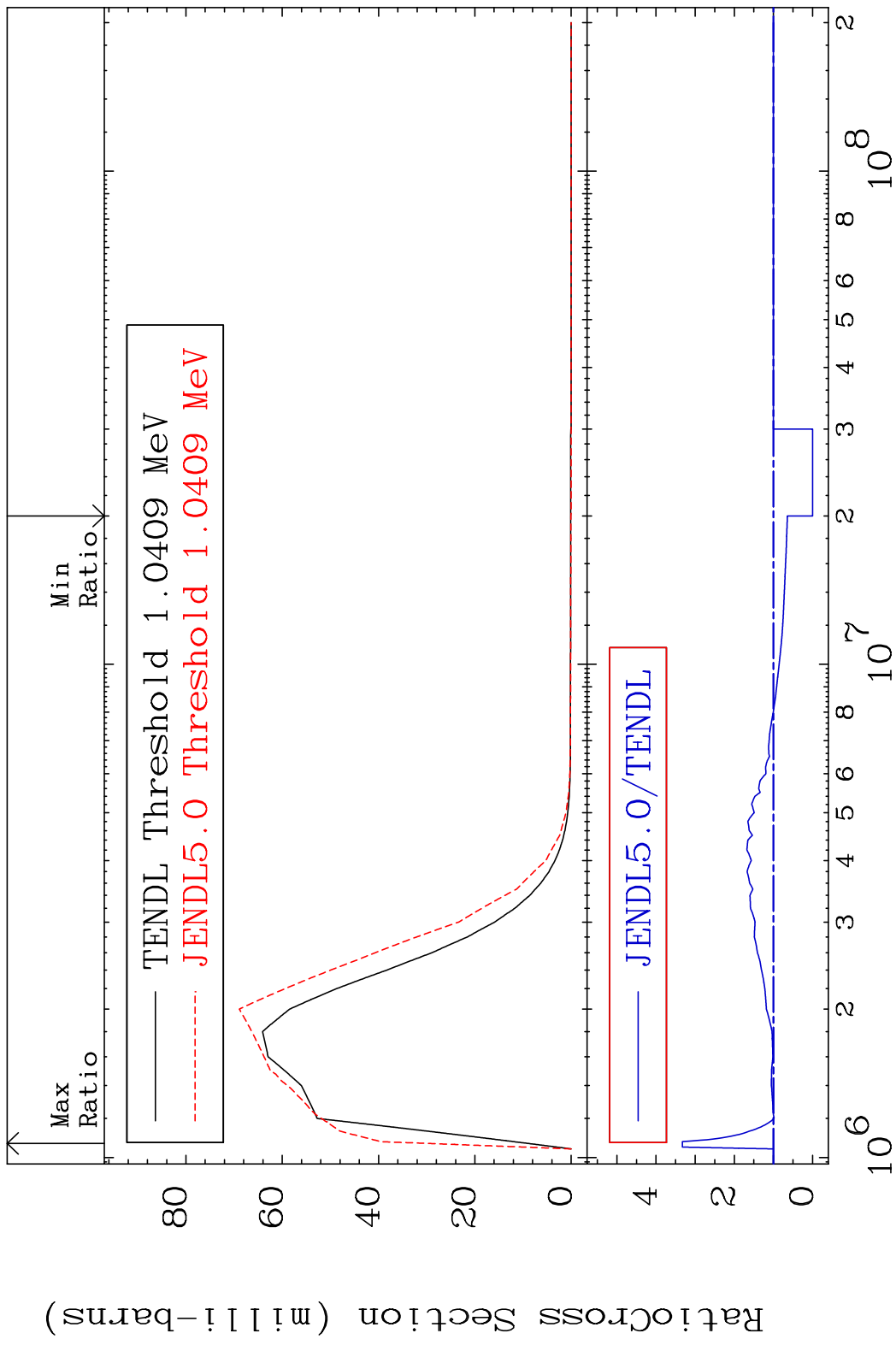


MAT 6313 MT= 61 (n, n') Level 63-Eu-147  
 Cross Section -100.0 To 419.5 %



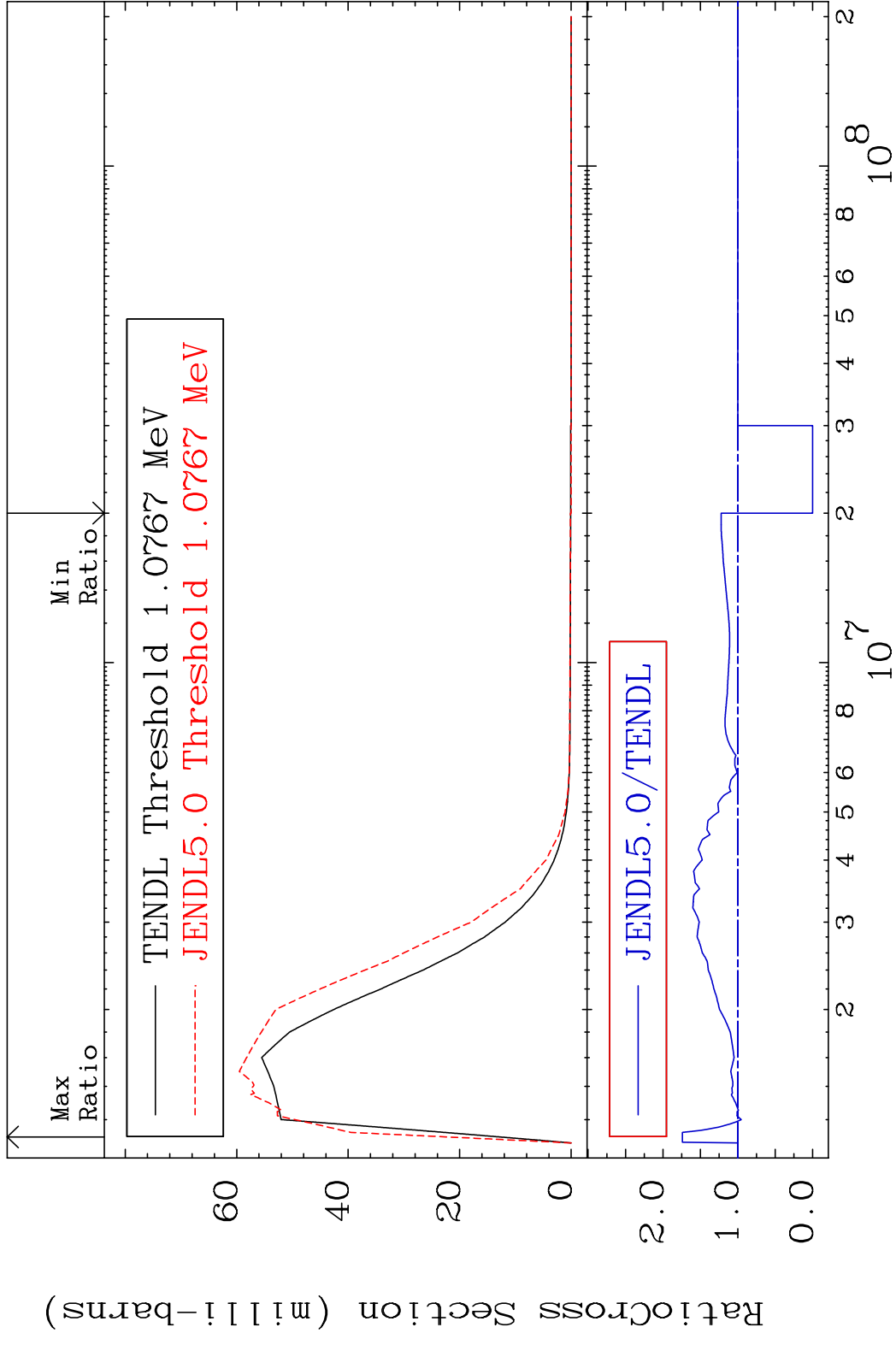
24 Incident Energy (eV) 63-Eu-147

MAT 6313 MT= 62 (n, n') Level 63-Eu-147  
 Cross Section -100.0 To 232.7 %

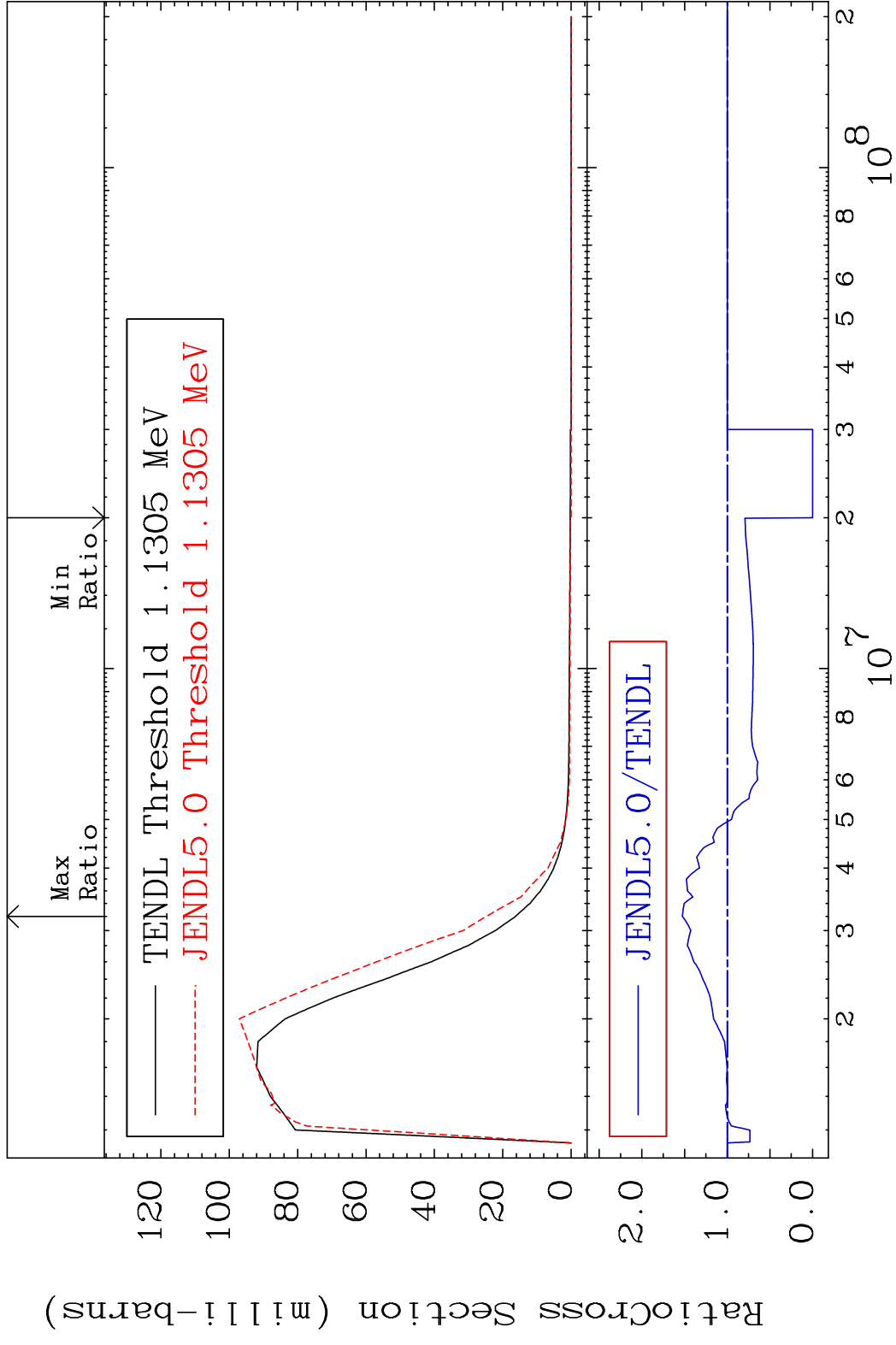


25 Incident Energy (eV) 63-Eu-147

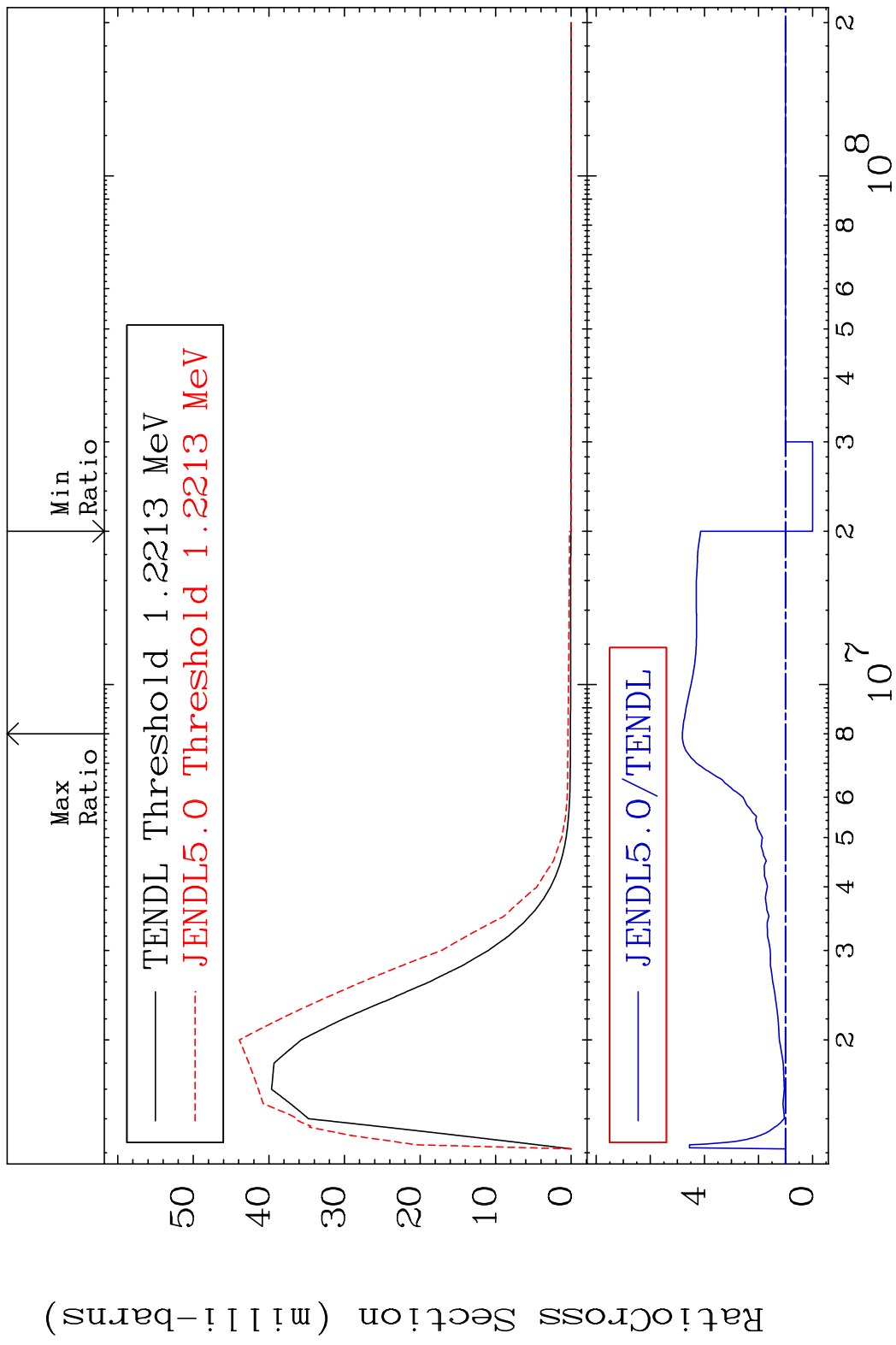
MAT 6313 MT= 63 (n, n') Level 63-Eu-147  
 Cross Section -100.0 To 74.01 %



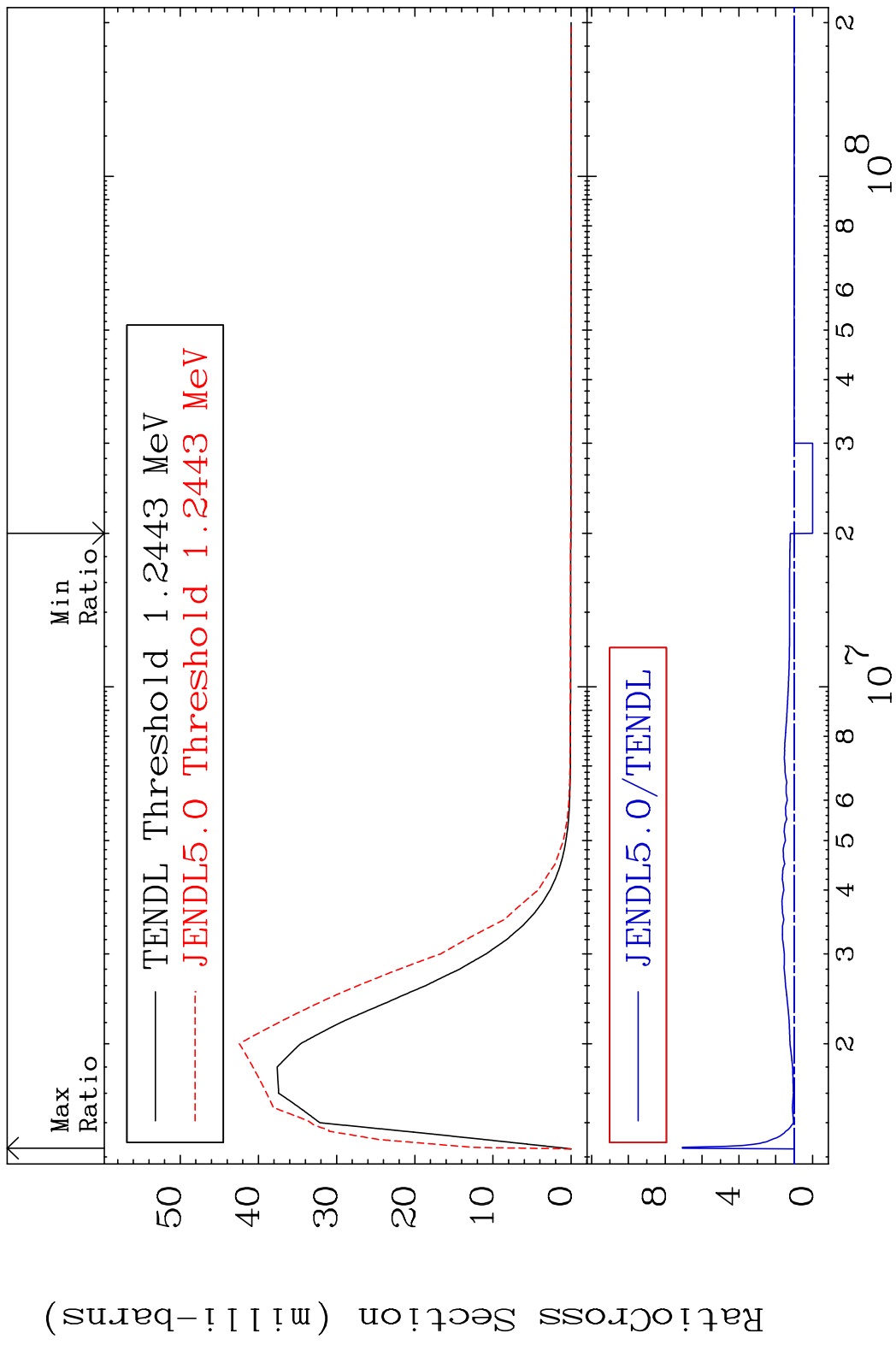
MAT 6313 MT= 64 (n, n') Level 63-Eu-147  
 Cross Section -100.0 To 52.60 %



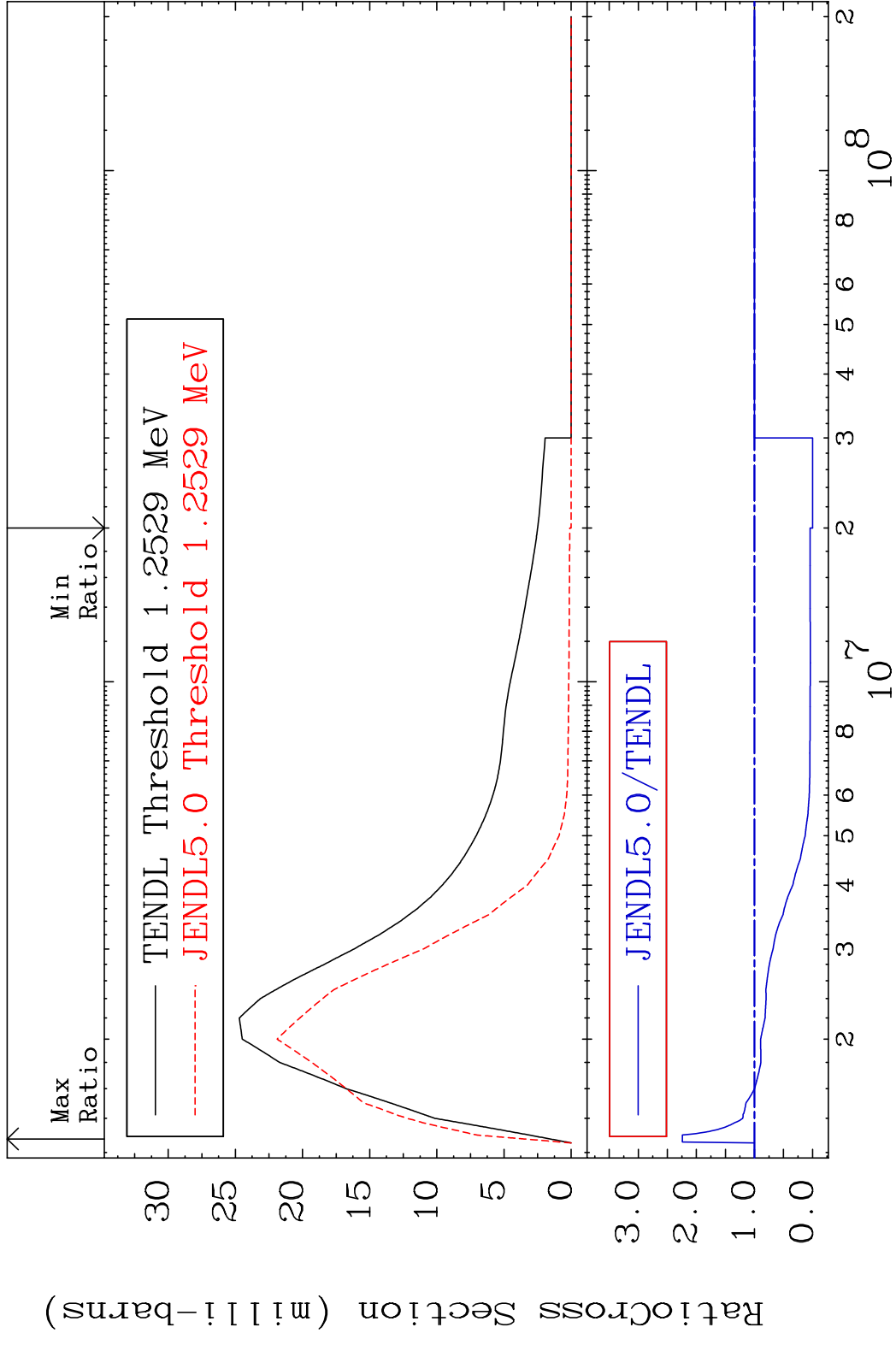
MAT 6313 MT= 65 (n, n') Level 63-Eu-147  
 Cross Section -100.0 To 381.6 %



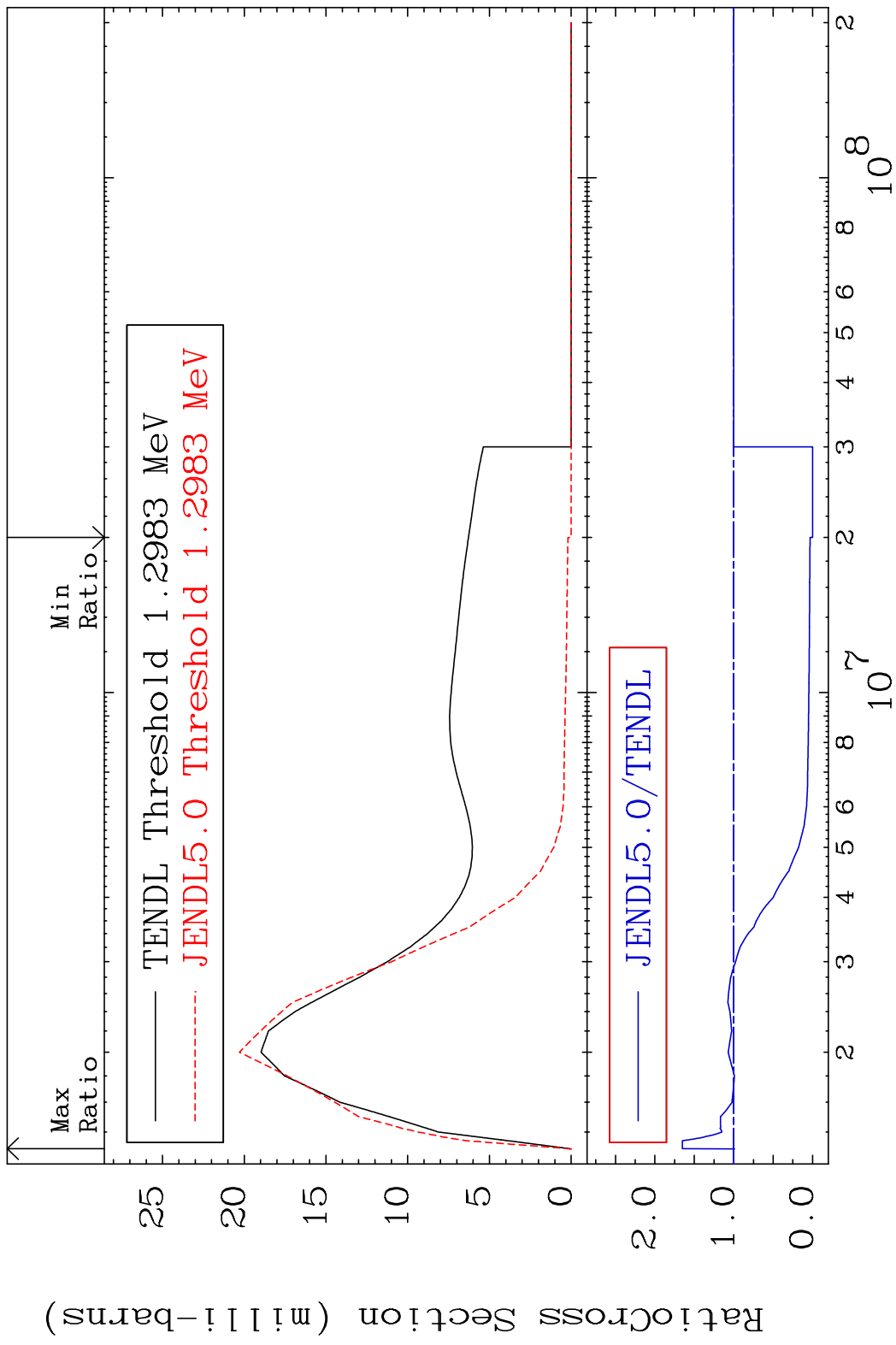
MAT 6313 MT= 66 (n, n') Level 63-Eu-147  
 Cross Section -100.0 To 607.0 %



MAT 6313 MT= 67 (n, n') Level 63-Eu-147  
 Cross Section -100.0 To 124.2 %

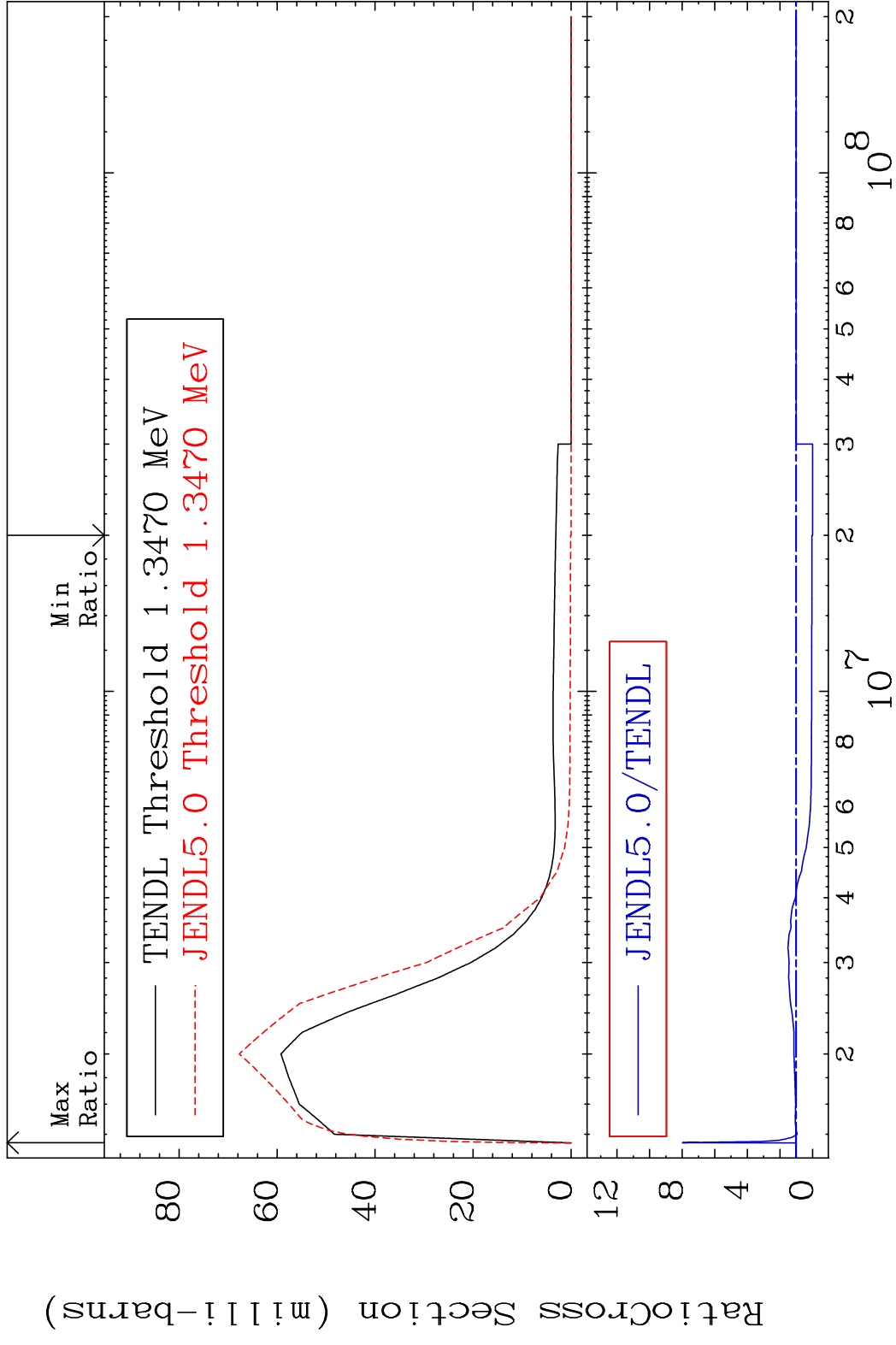


MAT 6313 MT= 68 (n, n') Level 63-Eu-147  
 Cross Section -100.0 To 65.15 %

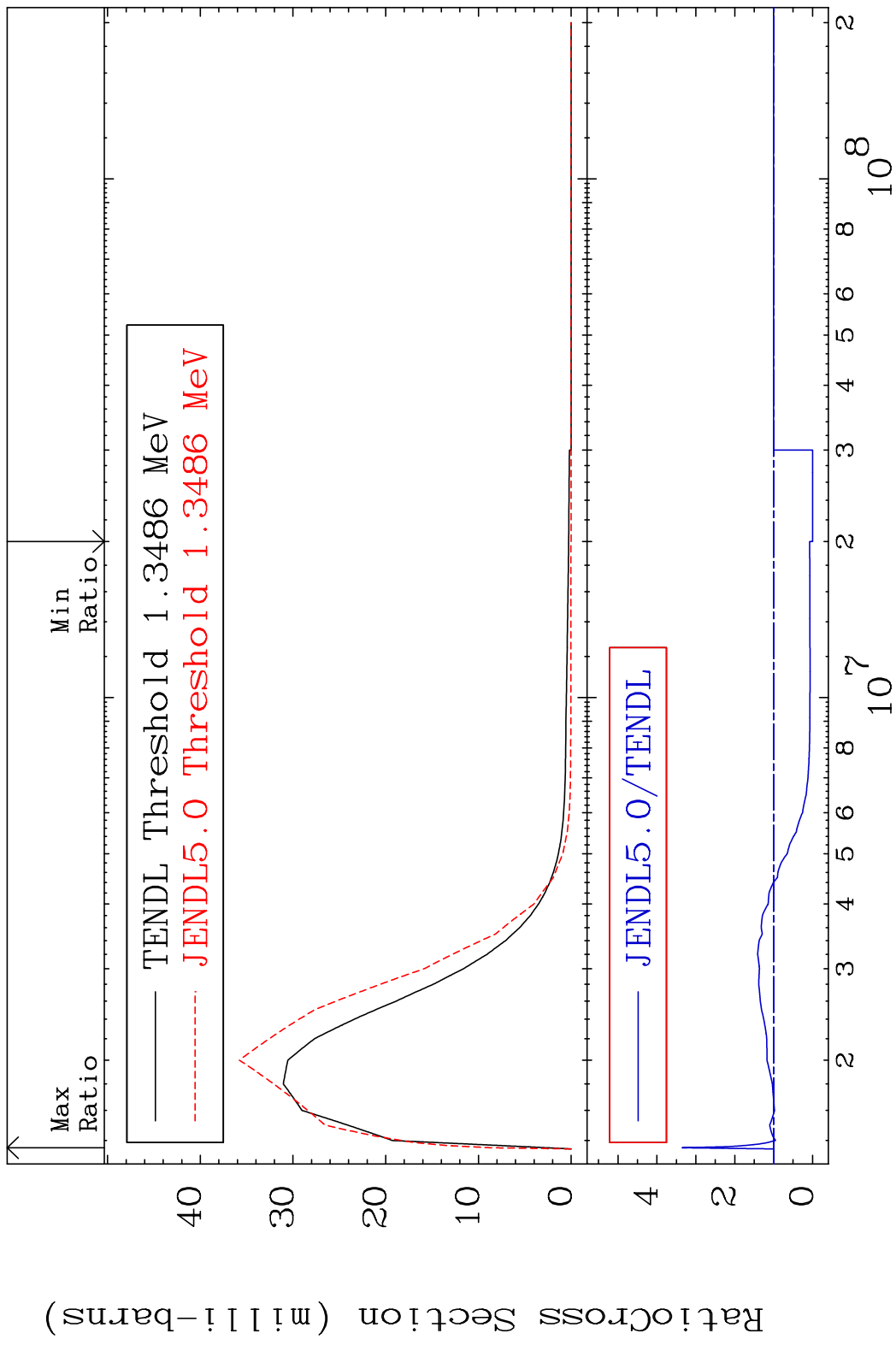




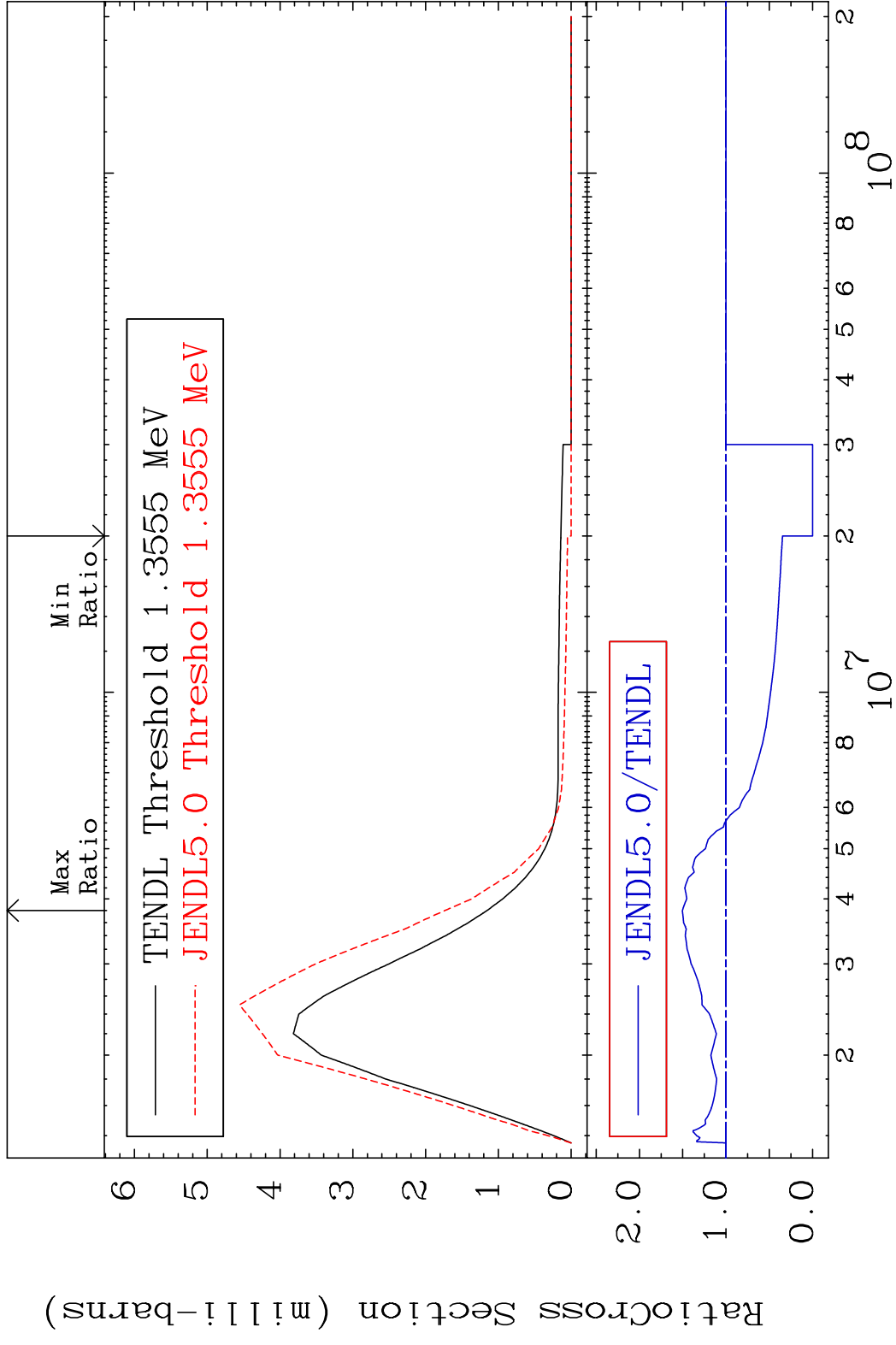
MAT 6313 MT= 69 (n, n') Level 63-Eu-147  
 Cross Section -100.0 To 698.9 %



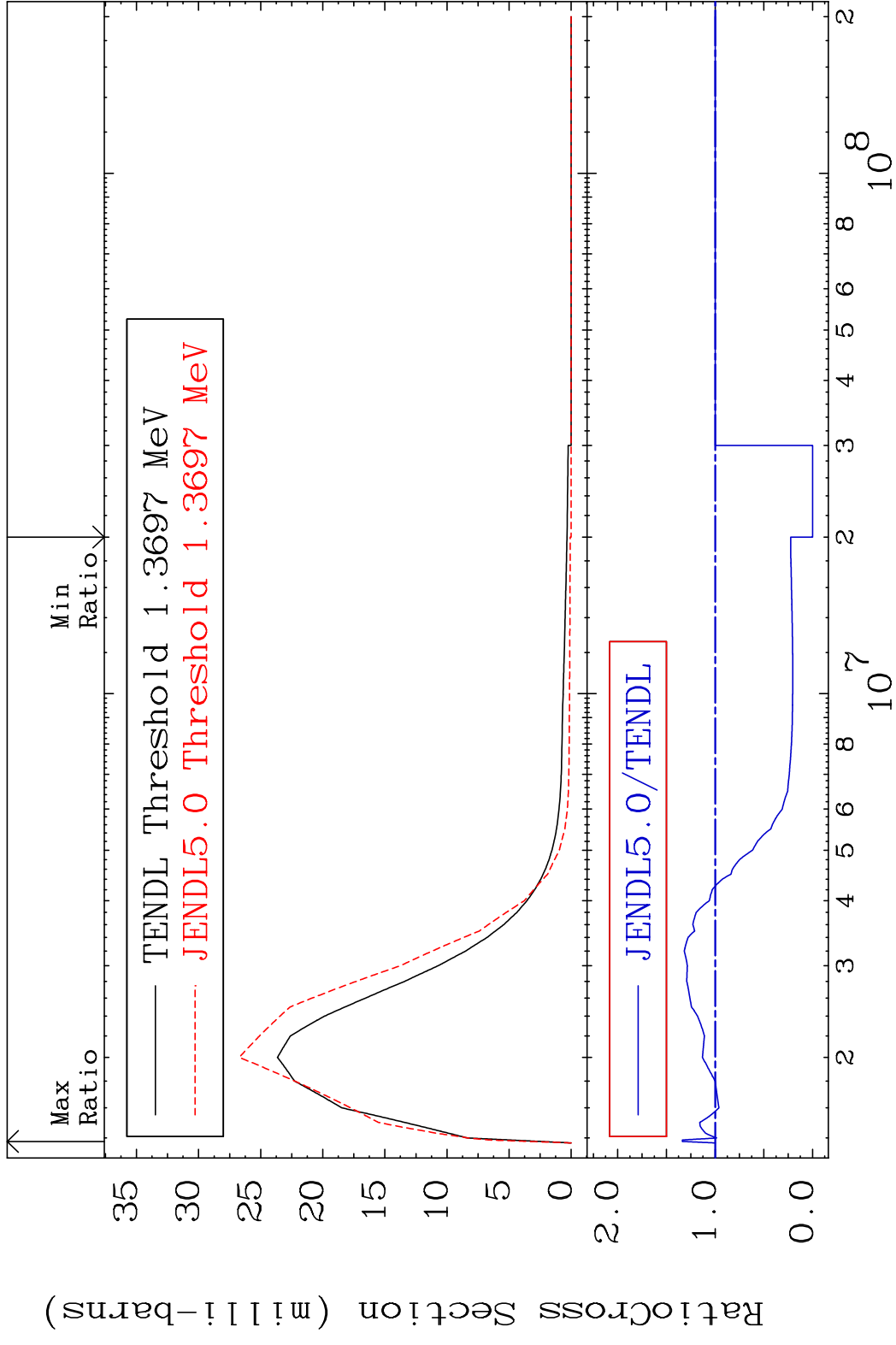
MAT 6313 MT= 70 (n, n') Level 63-Eu-147  
 Cross Section -100.0 To 234.7 %



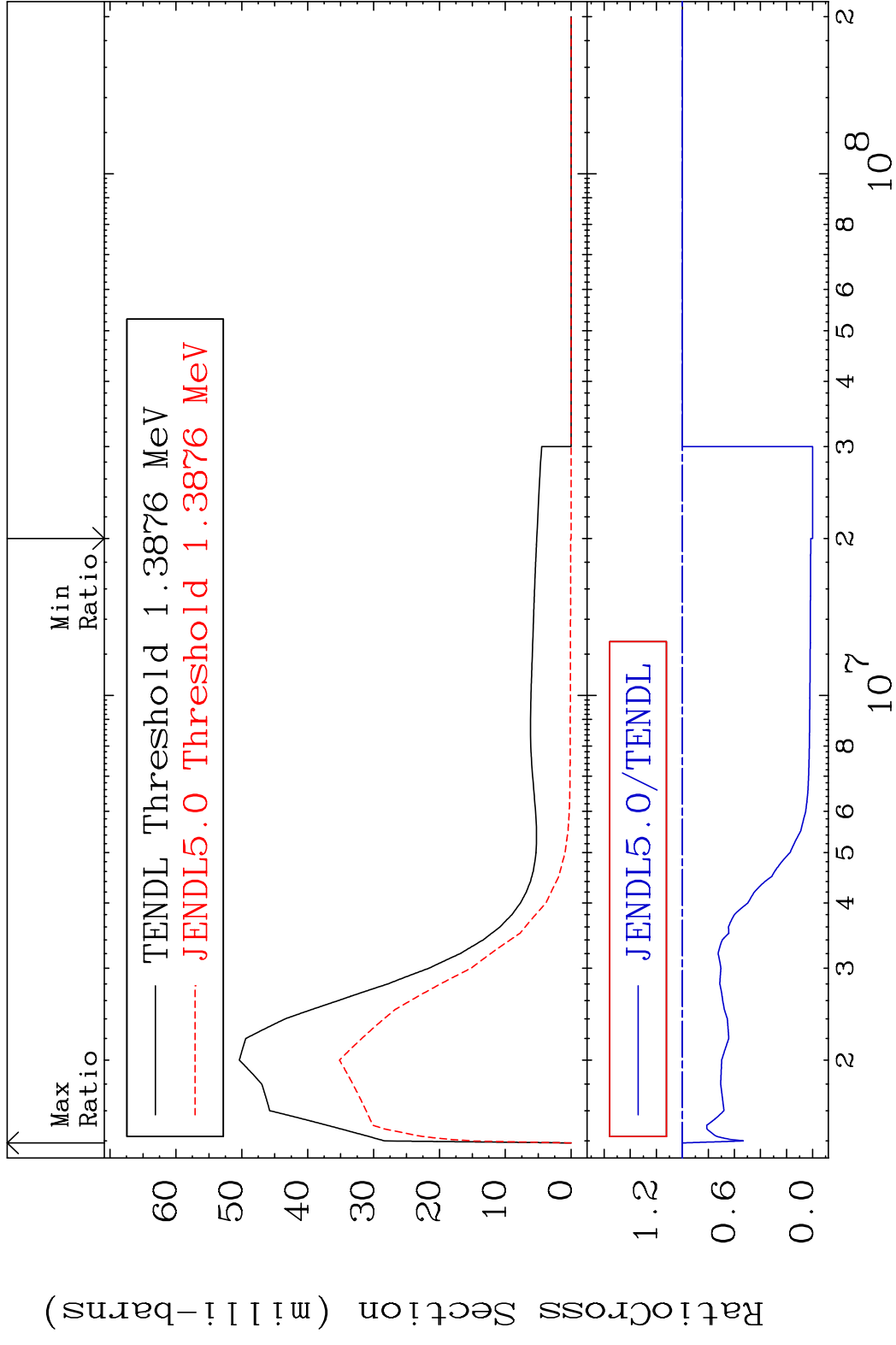
MAT 6313 MT= 71 (n, n') Level 63-Eu-147  
 Cross Section -100.0 To 50.43 %



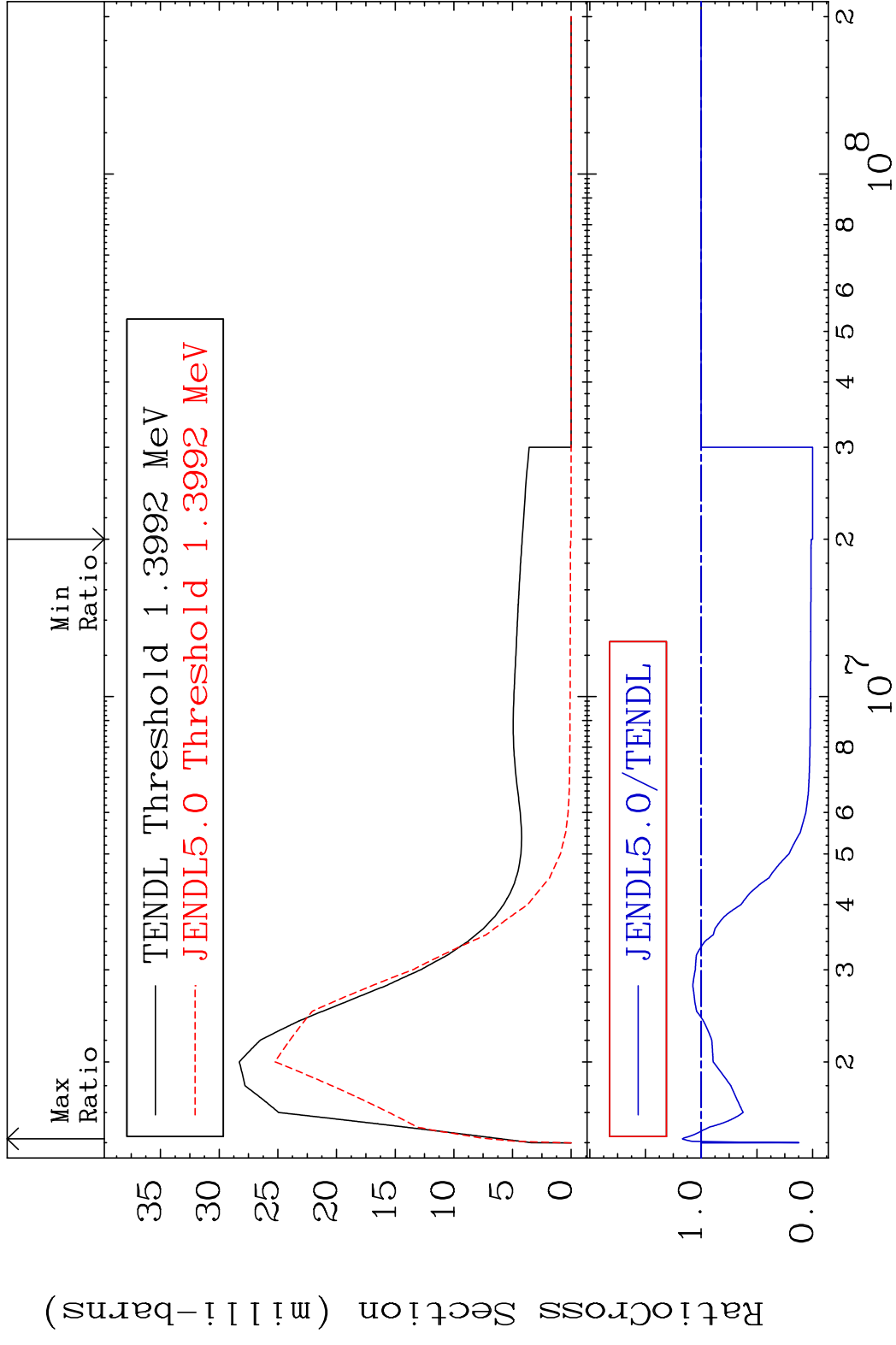
MAT 6313 MT= 72 (n, n') Level 63-Eu-147  
 Cross Section -100.0 To 33.64 %



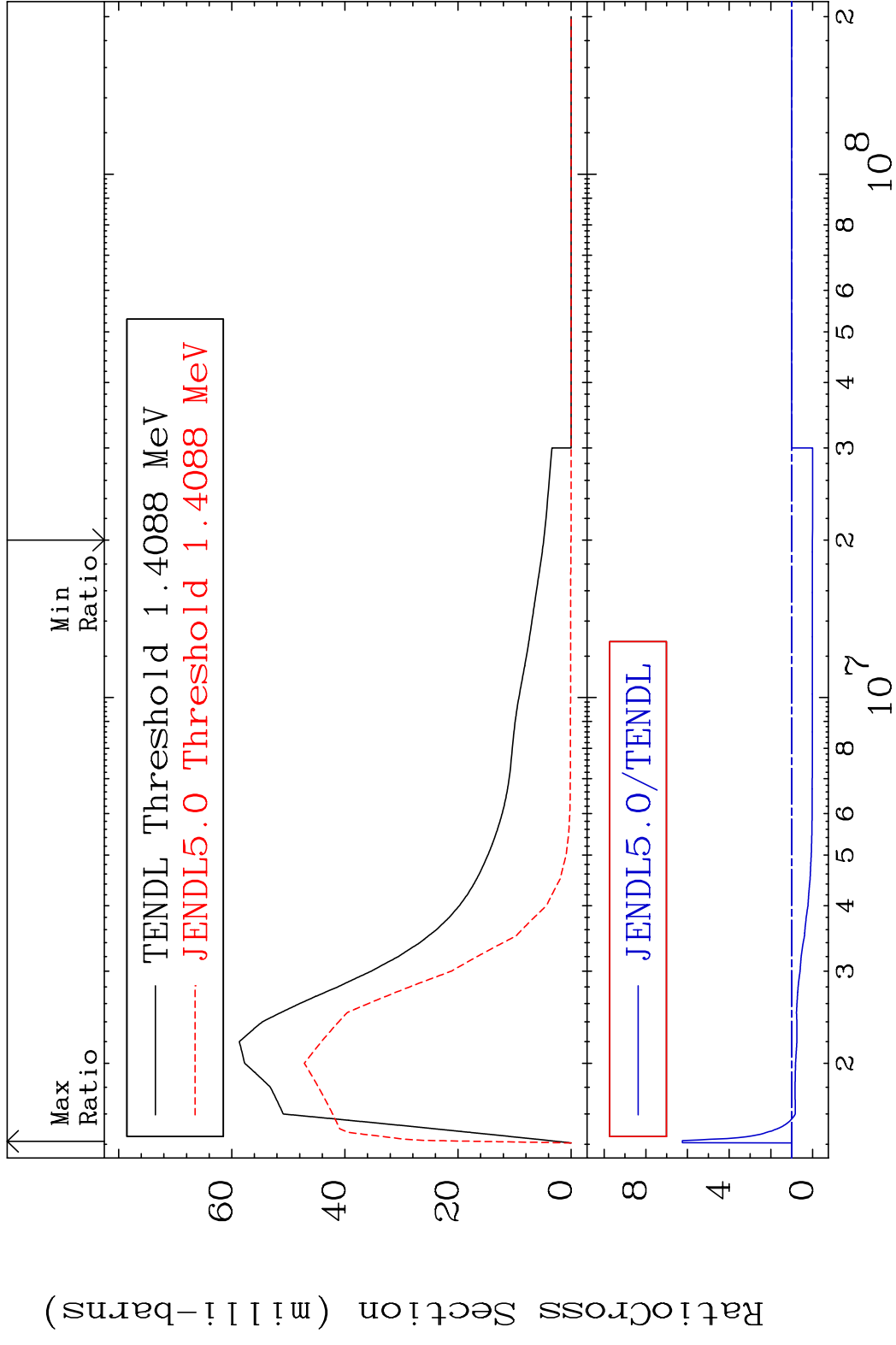
MAT 6313 MT= 73 (n, n') Level 63-Eu-147  
 Cross Section -100.0 To 0.000 %



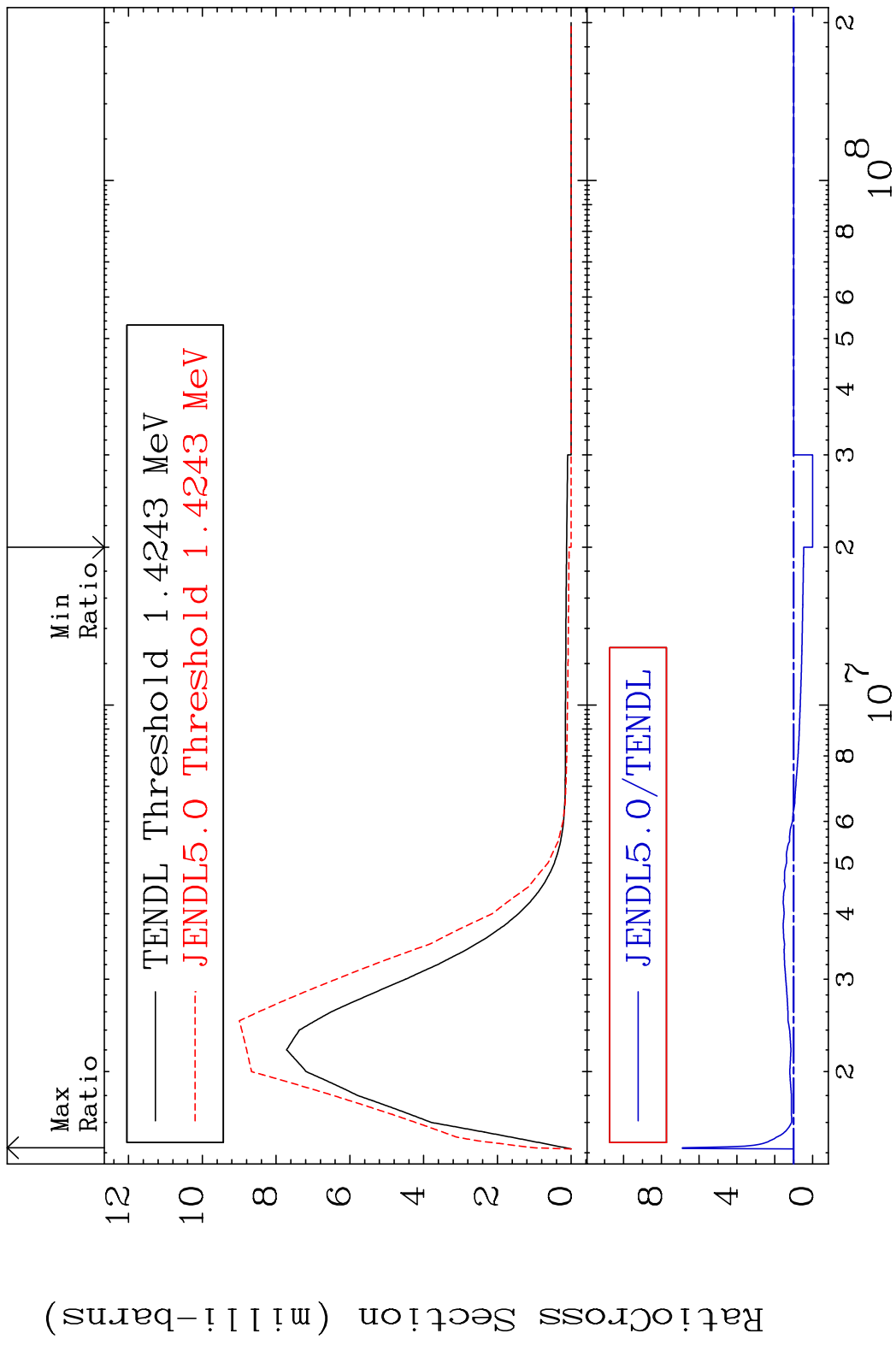
MAT 6313 MT= 74 (n, n') Level 63-Eu-147  
 Cross Section -100.0 To 16.92 %



MAT 6313 MT= 75 (n, n') Level 63-Eu-147  
 Cross Section -100.0 To 524.7 %

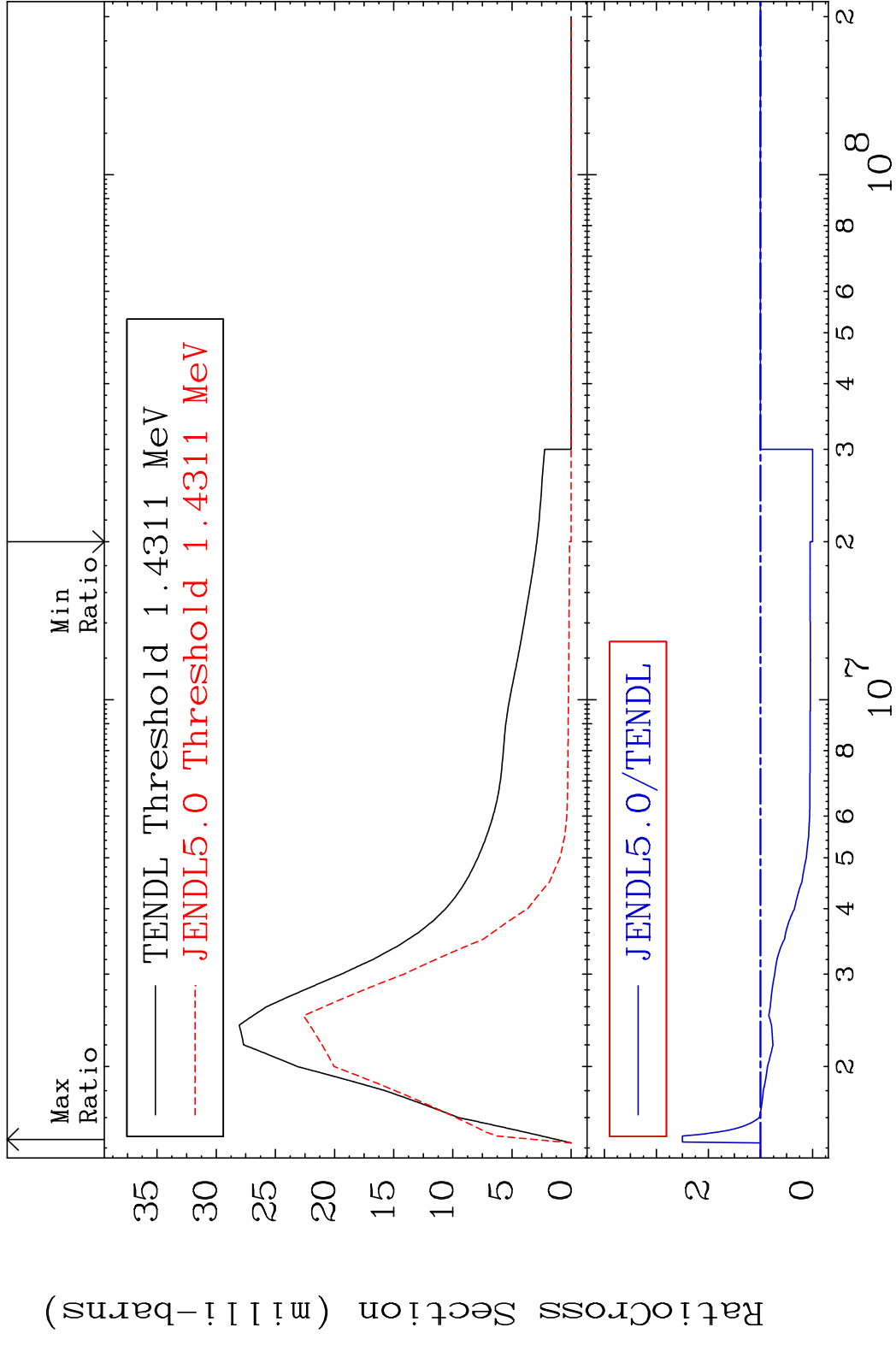


MAT 6313 MT= 76 (n, n') Level 63-Eu-147  
 Cross Section -100.0 To 588.6 %



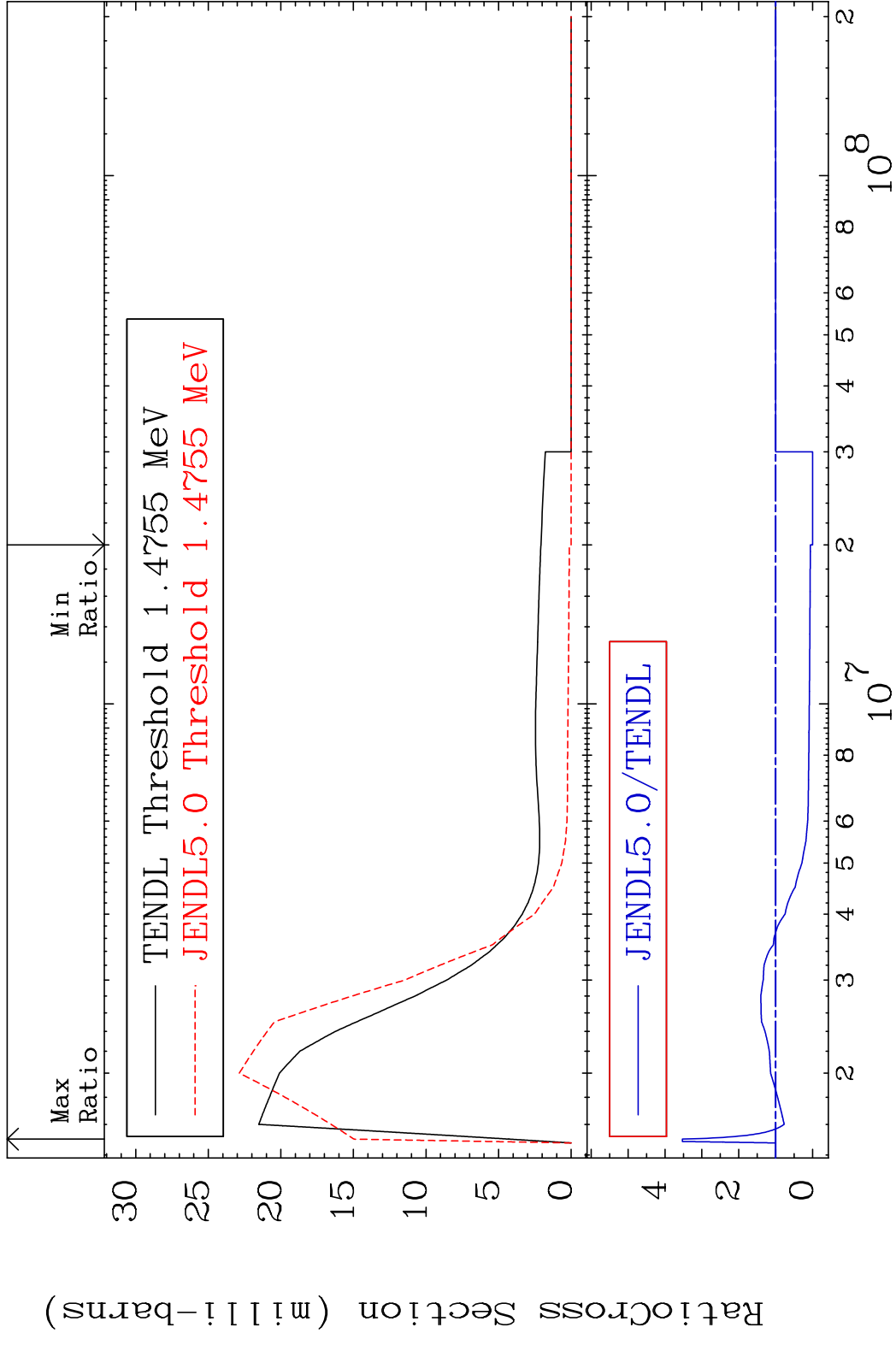


MAT 6313 MT= 77 (n, n') Level 63-Eu-147  
 Cross Section -100.0 To 150.1 %



40 Incident Energy (eV) 63-Eu-147

MAT 6313 MT= 78 (n, n') Level 63-Eu-147  
 Cross Section -100.0 To 252.9 %

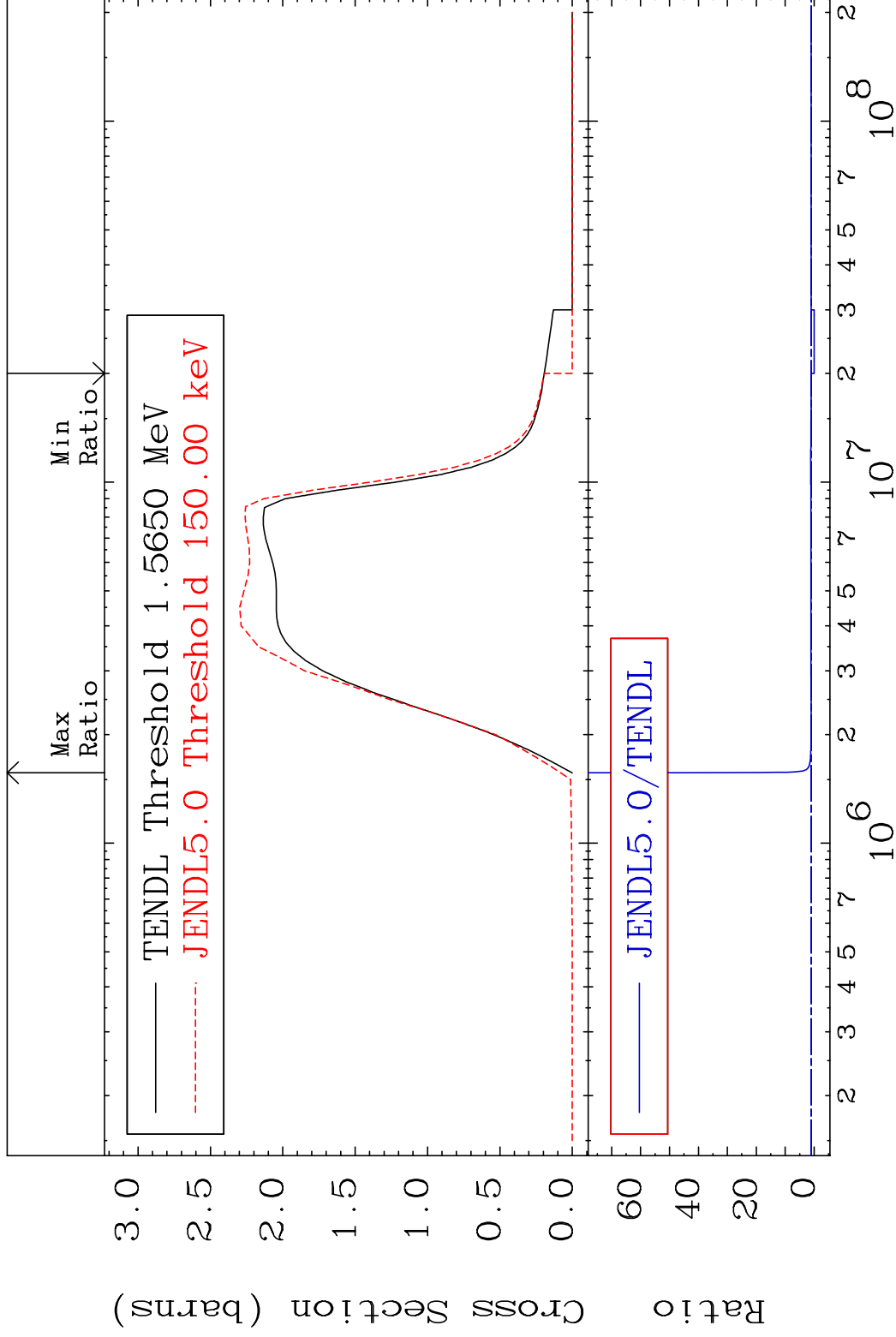


MAT 6313

(n,n') Continuum

63-Eu-147

Cross Section -100.0 To 4412. %



42

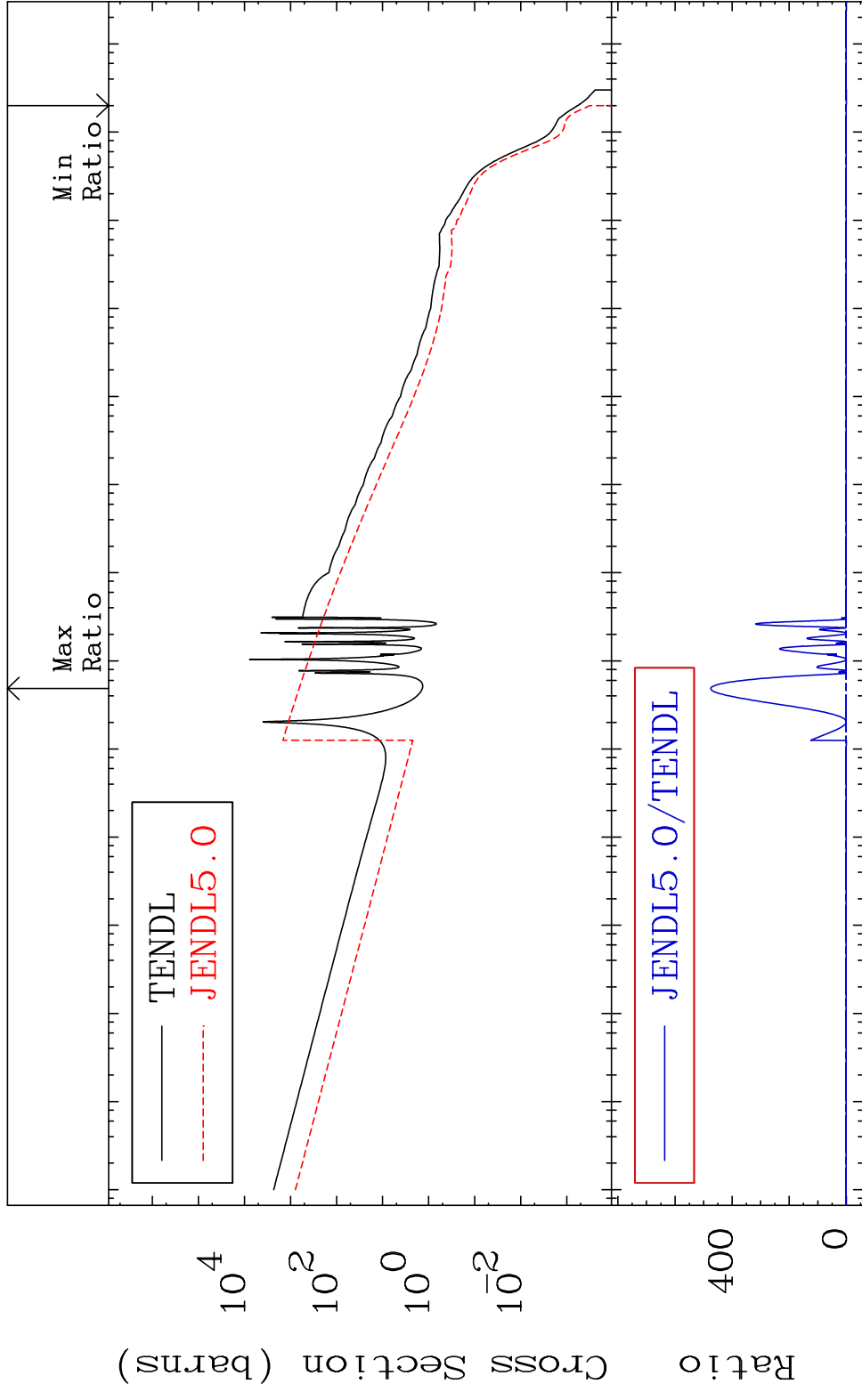
Incident Energy (eV)

63-Eu-147

MAT 6313

(n,  $\gamma$ )  
Cross Section -100.0 To 9999. %

63-Eu-147



43

Incident Energy (eV)

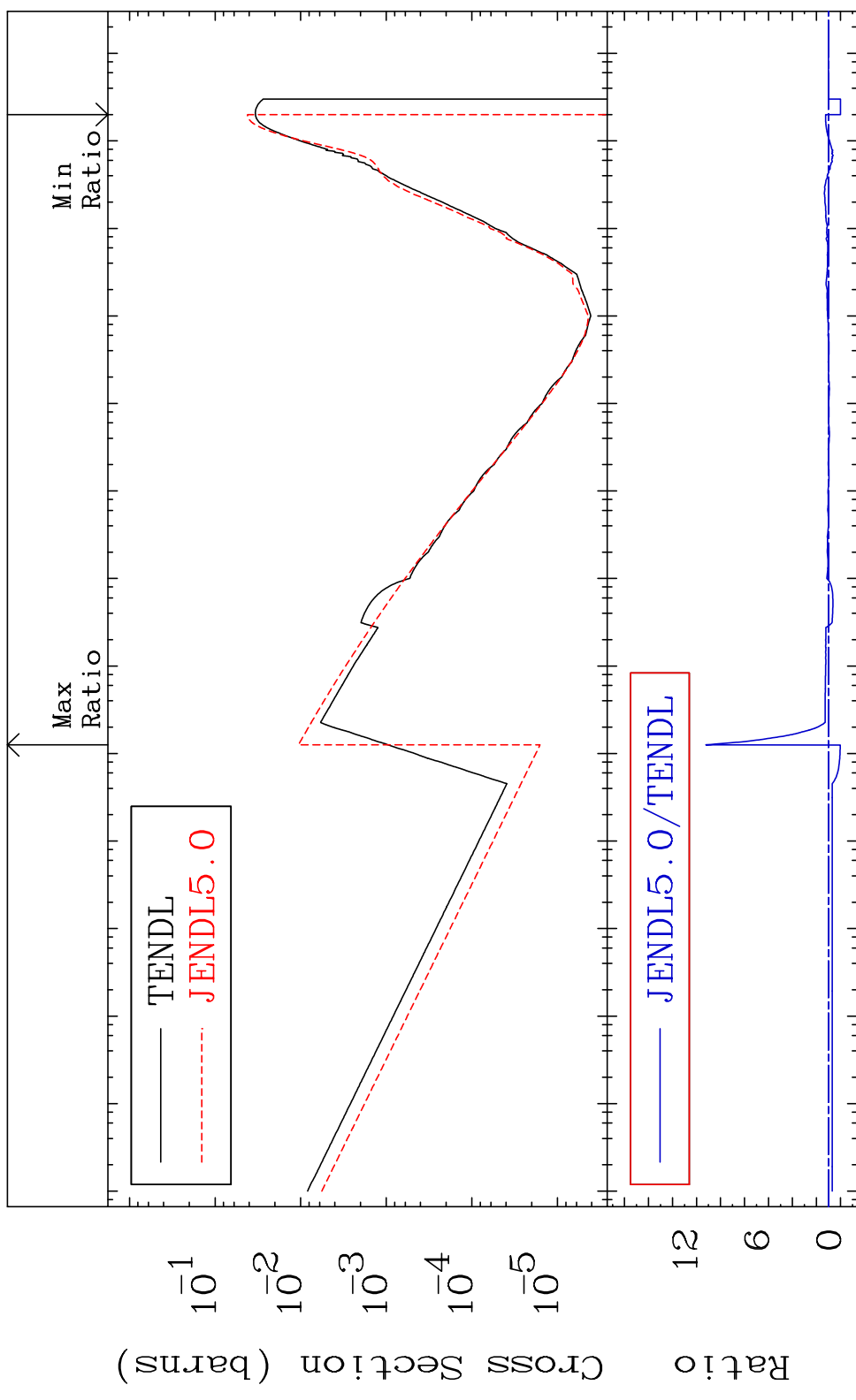
63-Eu-147

MAT 6313

(n, p)

63-Eu-147

Cross Section -100.0 To 1023. %



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>

44

Incident Energy (eV)

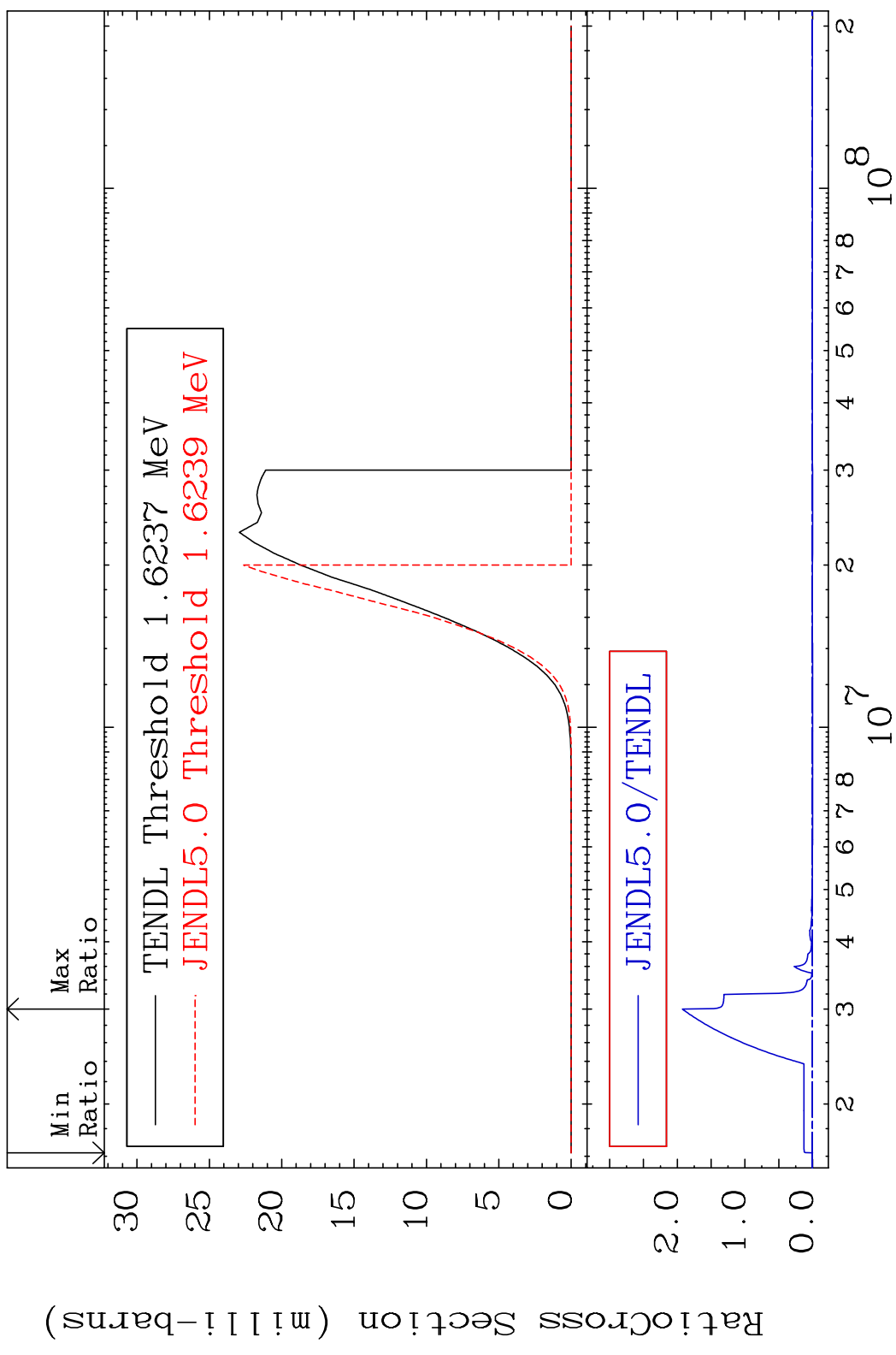
63-Eu-147

MAT 6313

(n,d)

63-Eu-147

Cross Section -100.0 To 9999. %



45

Incident Energy (eV)

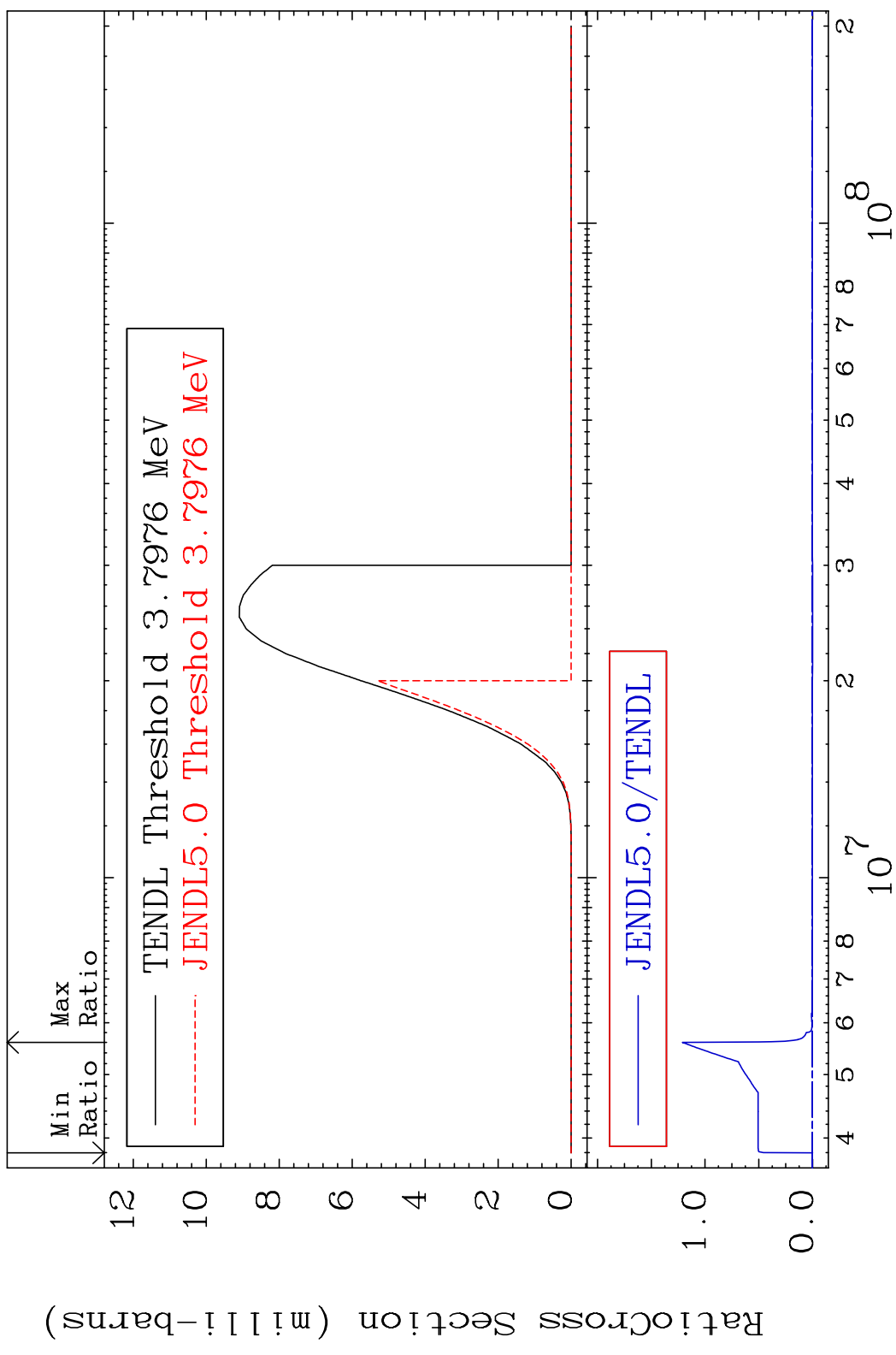
63-Eu-147

MAT 6313

(n, t)

63-Eu-147

Cross Section -100.0 To 9999. %



46

Incident Energy (eV)

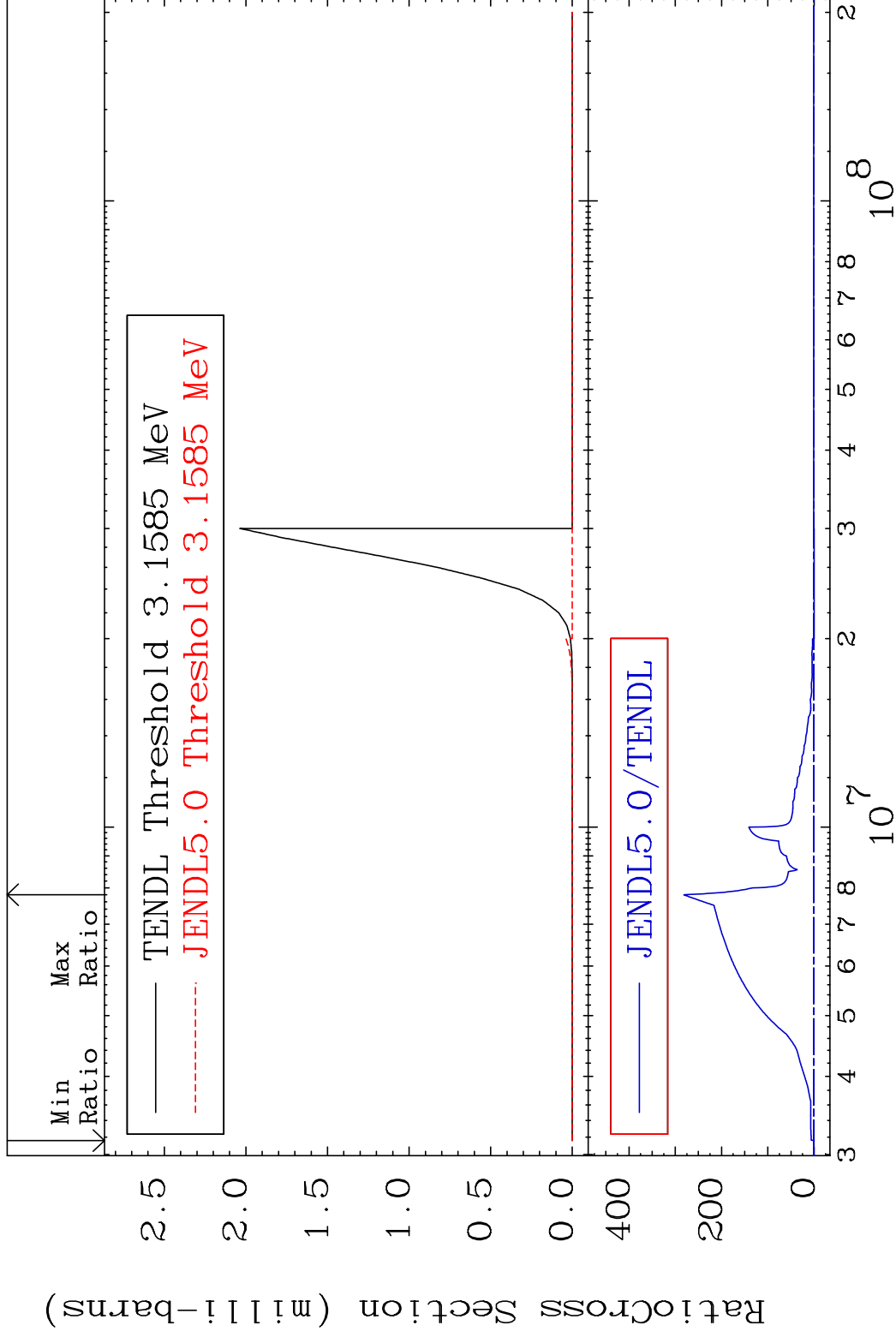
63-Eu-147

MAT 6313

(n, He-3)

63-Eu-147

Cross Section -100.0 To 9999. %



47

Incident Energy (eV)

63-Eu-147

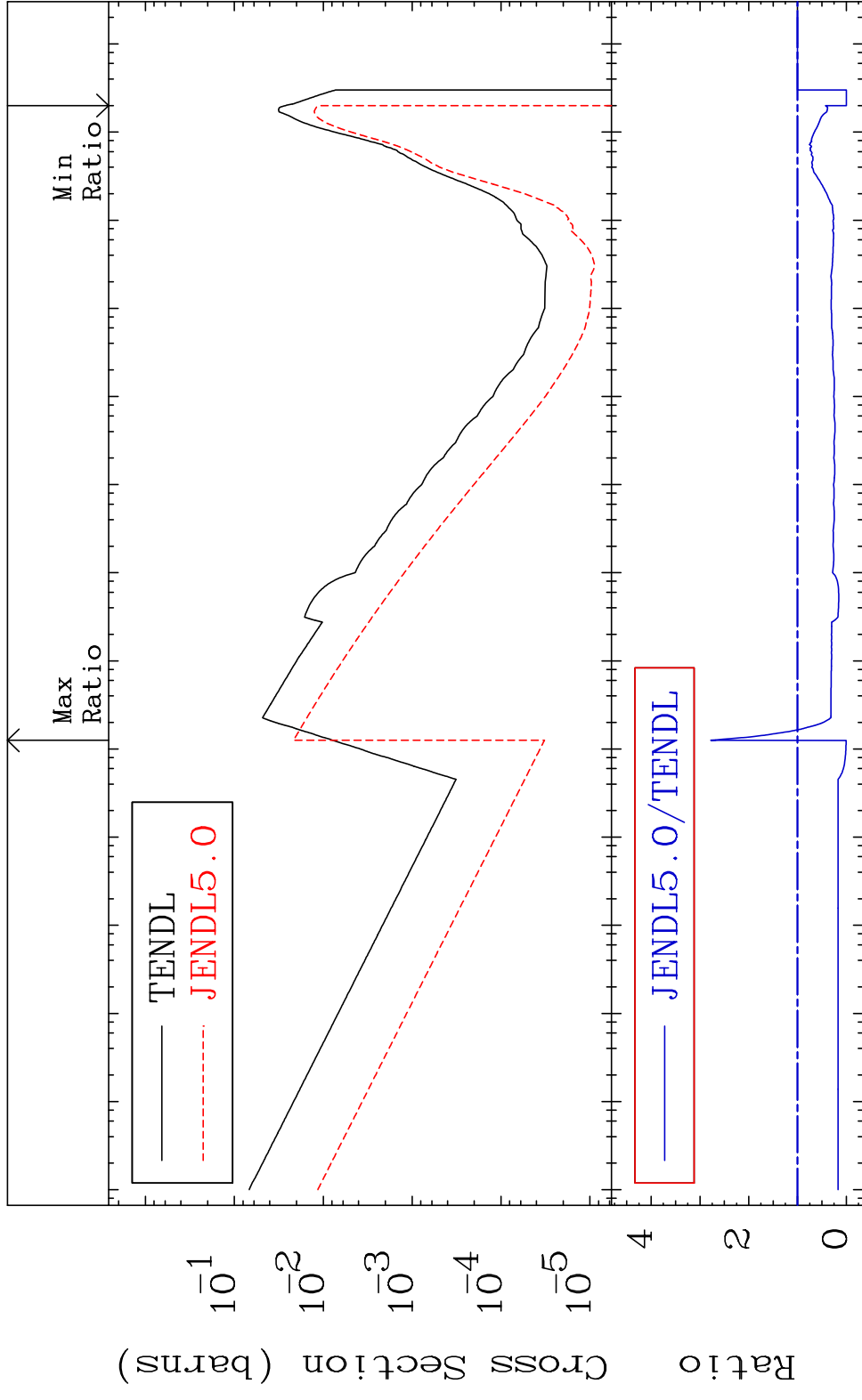


MAT 6313

63-Eu-147

(n,  $\alpha$ )

Cross Section -100.0 To 177.9 %



48

Incident Energy (eV)

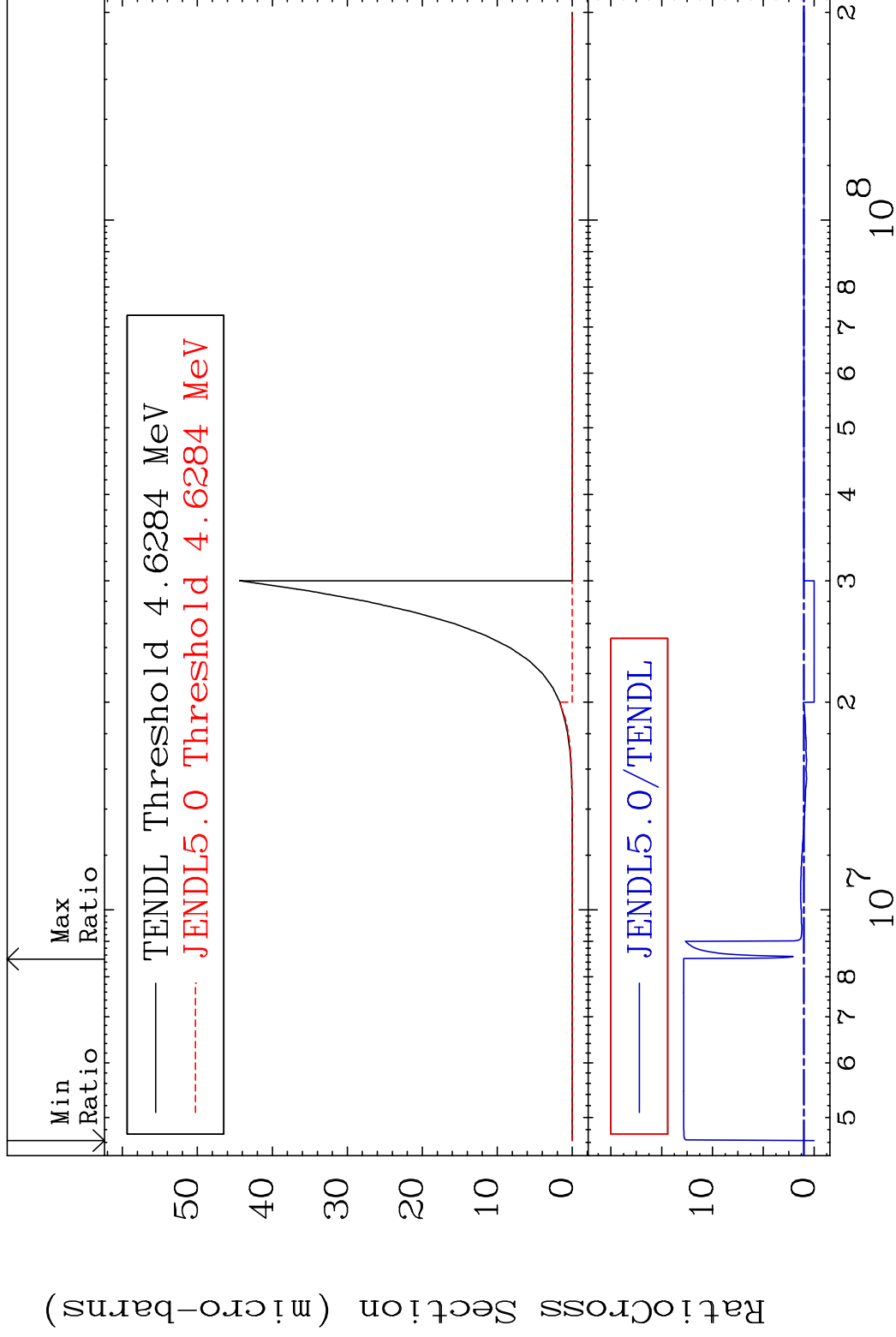
63-Eu-147

MAT 6313

(n,2p)

63-Eu-147

Cross Section -100.0 To 1184. %



49

Incident Energy (eV)

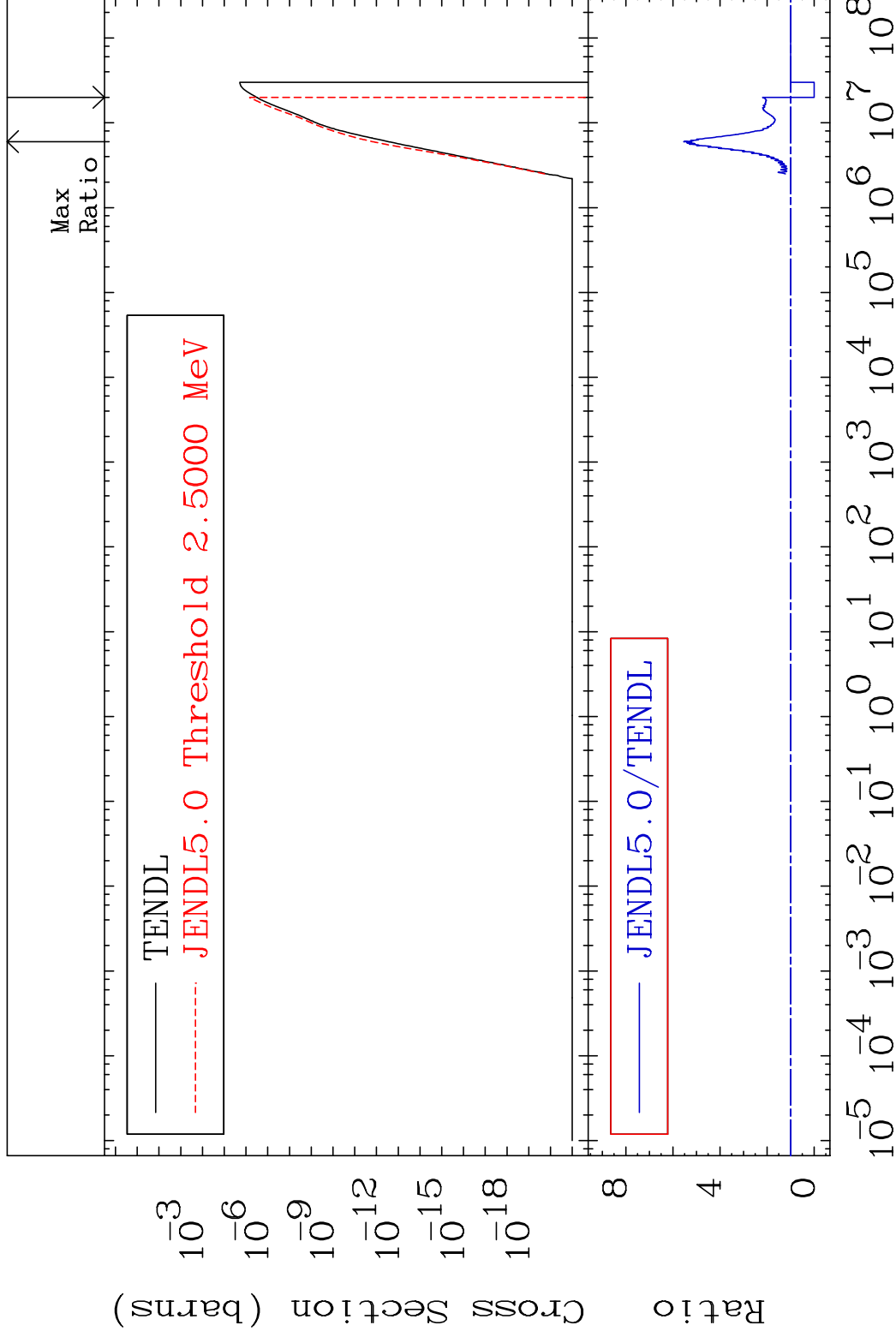
63-Eu-147

MAT 6313

(n,p)  $\alpha$

63-Eu-147

Cross Section -100.0 To 454.2 %



50

Incident Energy (eV)

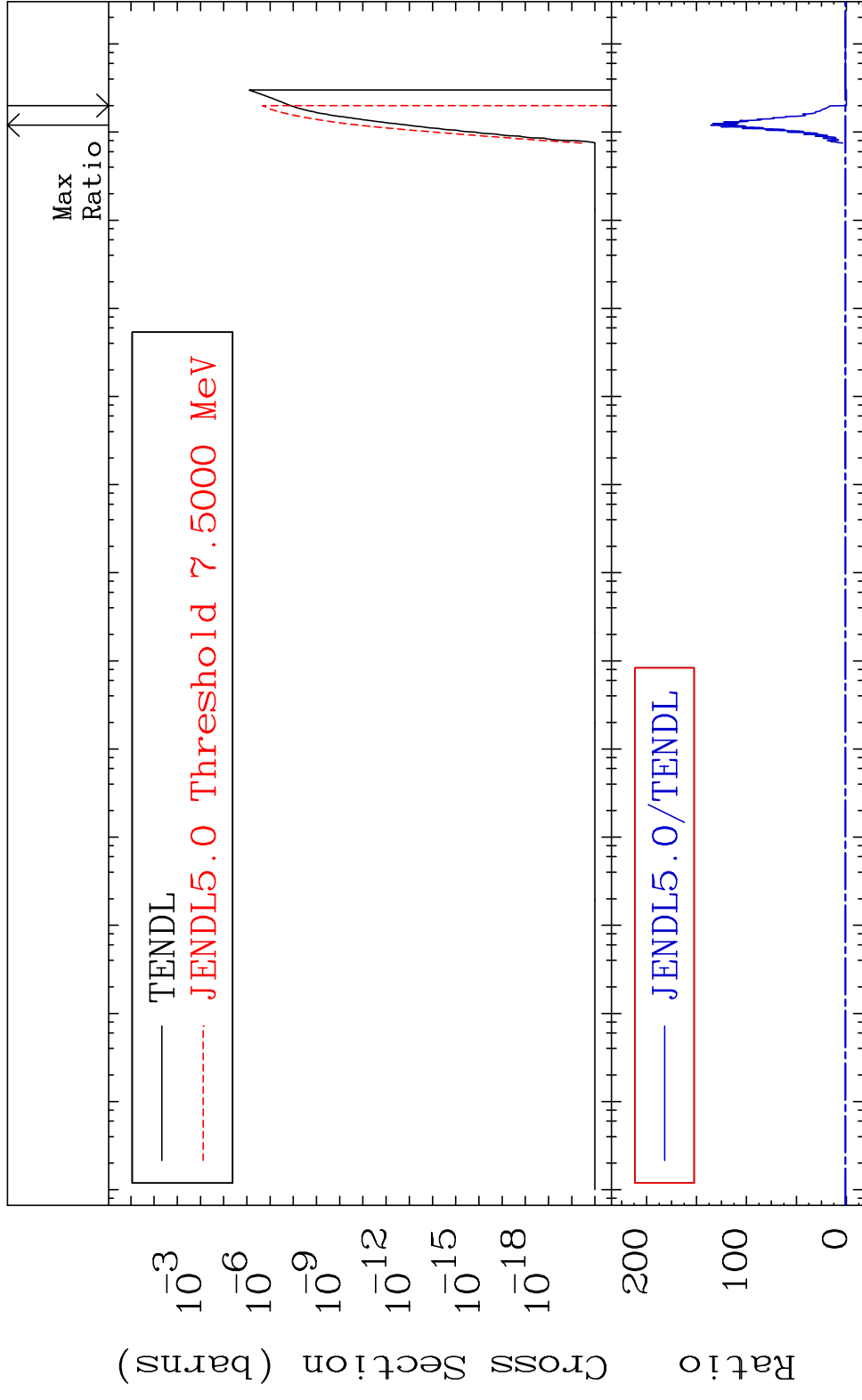
63-Eu-147

MAT 6313

(n,d)  $\alpha$

63-Eu-147

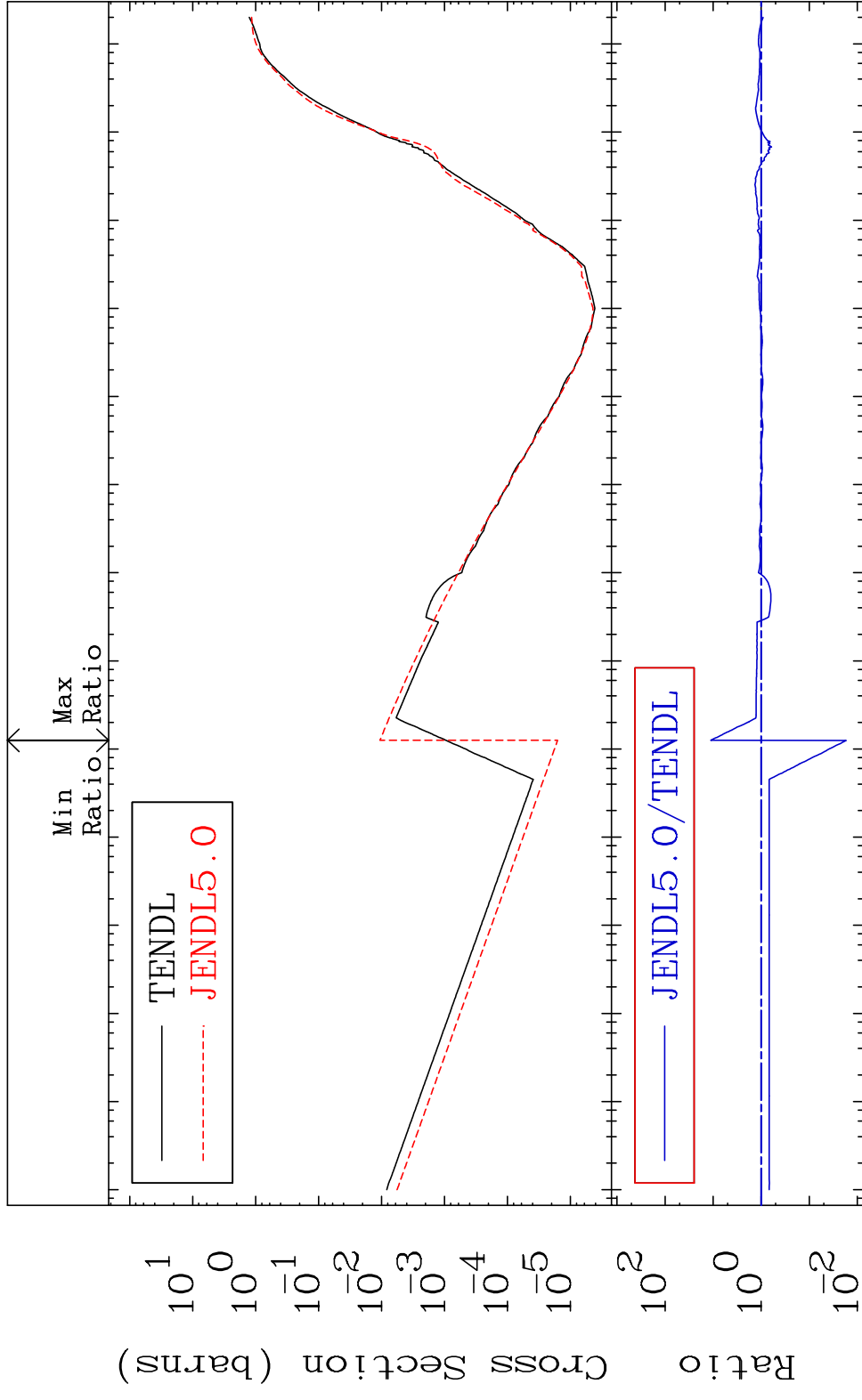
Cross Section -100.0 To 9999. %



MAT 6313

Hydrogen Production  
Cross Section -98.31 To 1023. %

63-Eu-147

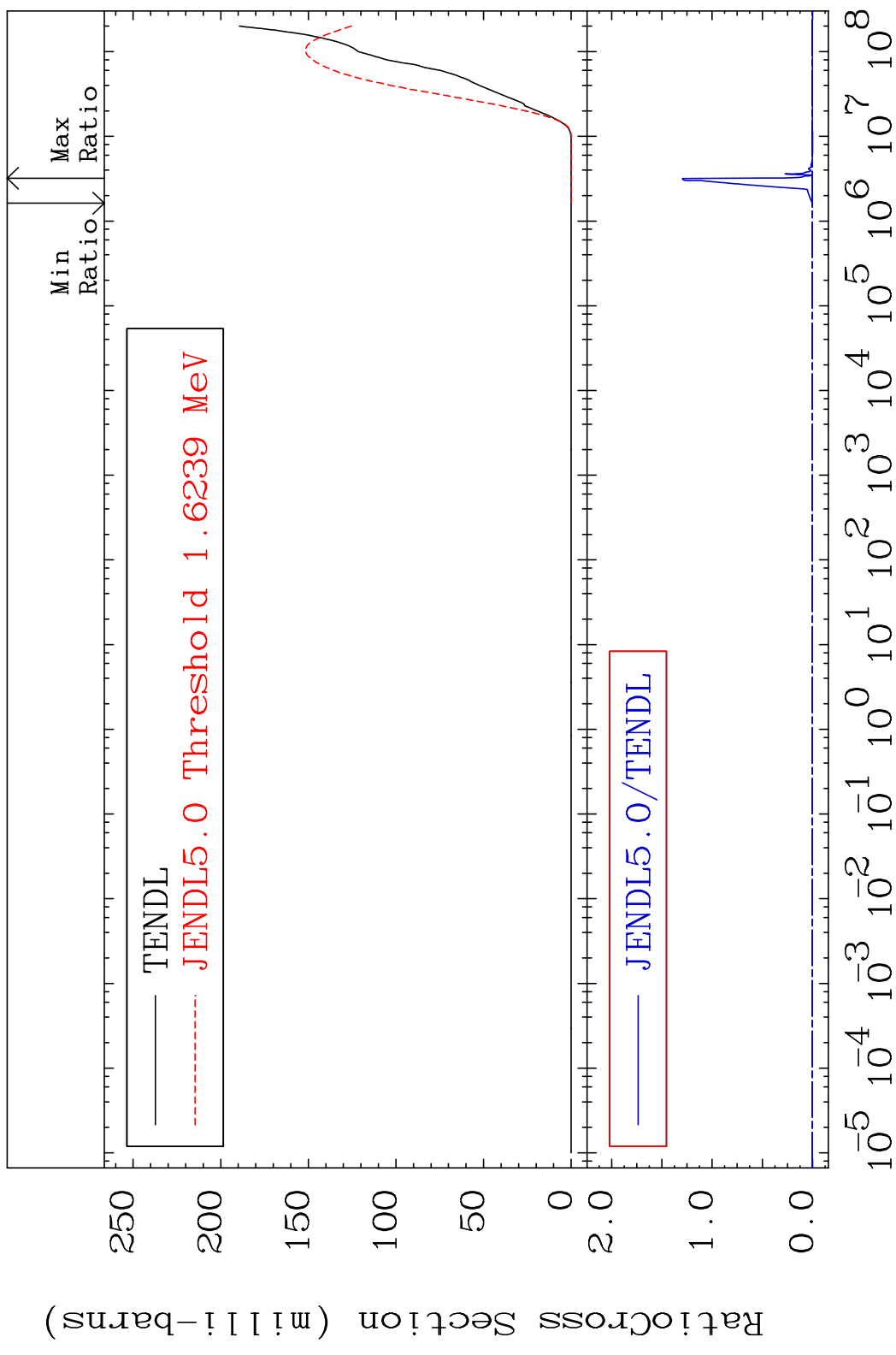


MAT 6313

Deuterium Production

63-Eu-147

Cross Section -100.0 To 9999. %

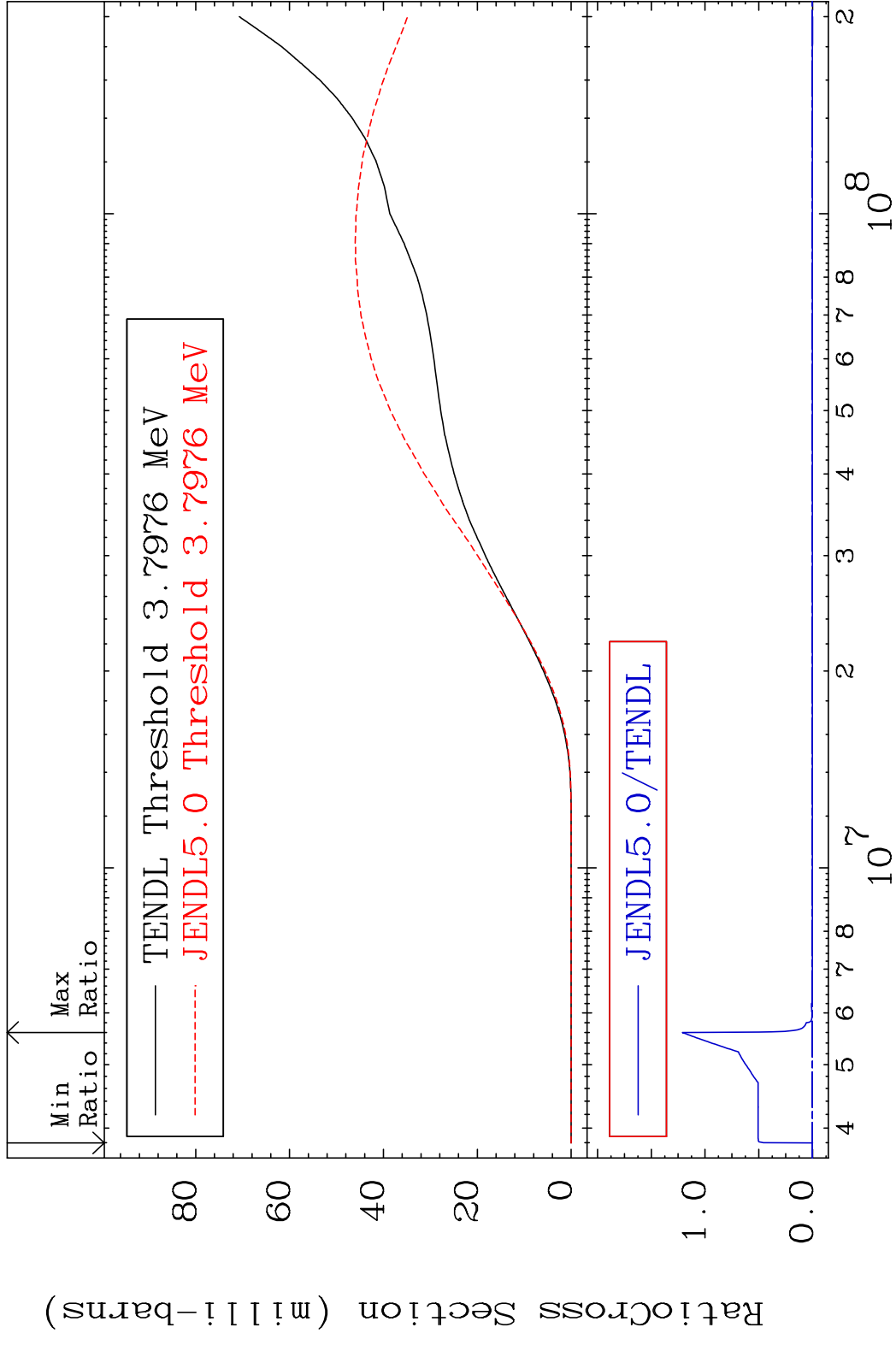


53

Incident Energy (eV)

63-Eu-147

MAT 6313 Tritium Production 63-Eu-147  
 Cross Section -100.0 To 9999. %

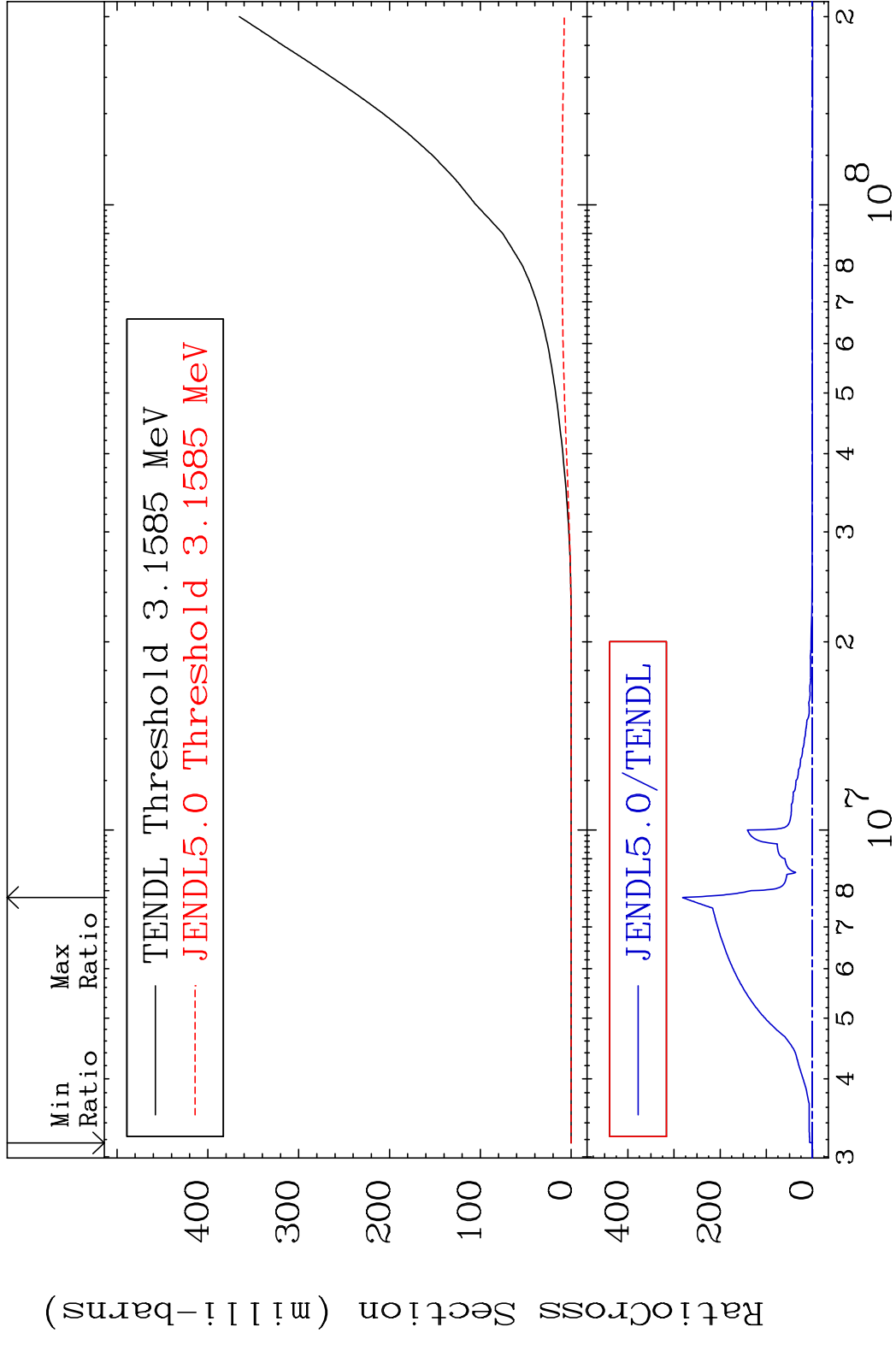


MAT 6313

He-3 Production

63-Eu-147

Cross Section -100.0 To 9999. %



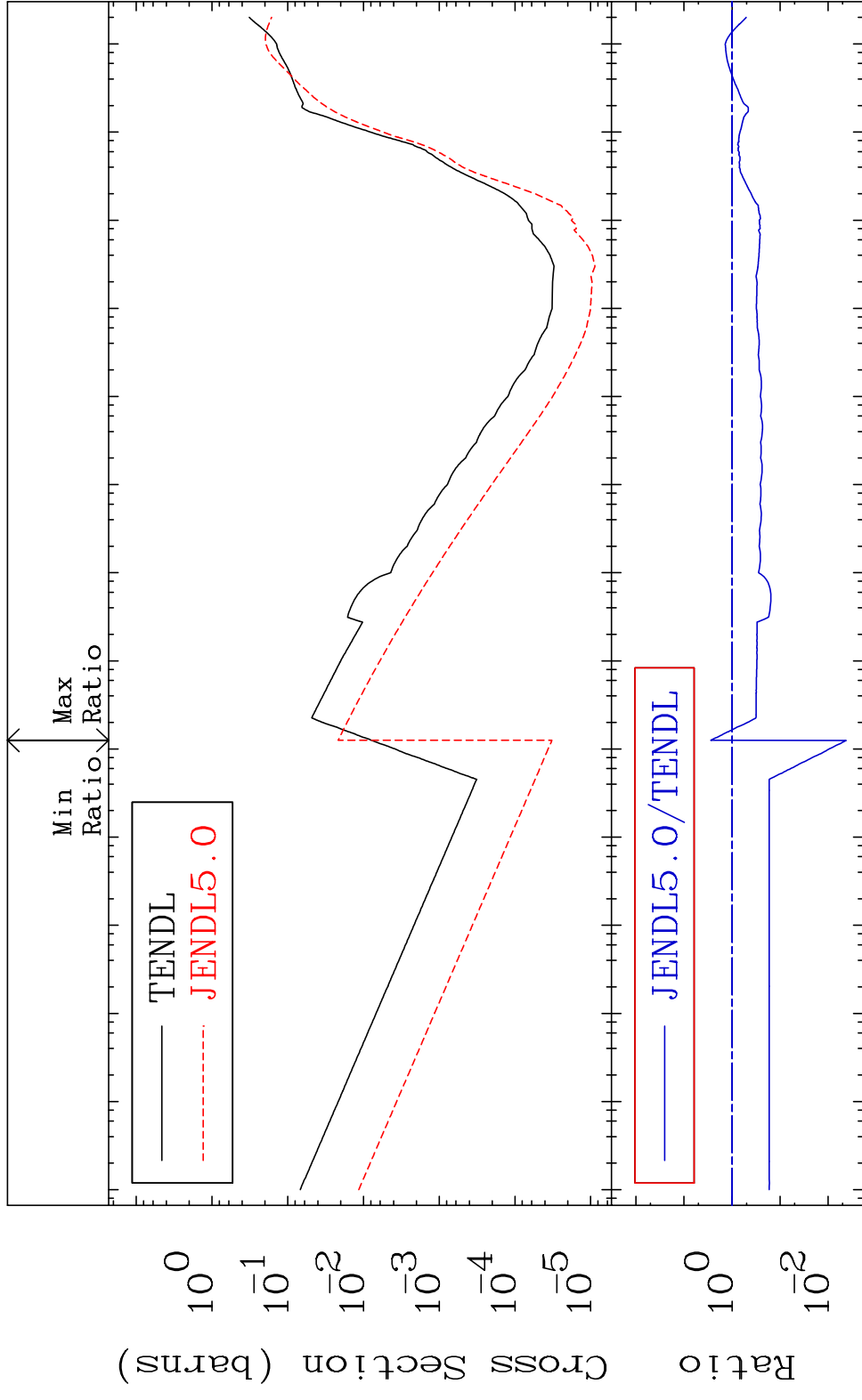


MAT 6313

He-4 Production

63-Eu-147

Cross Section -99.58 To 177.9 %

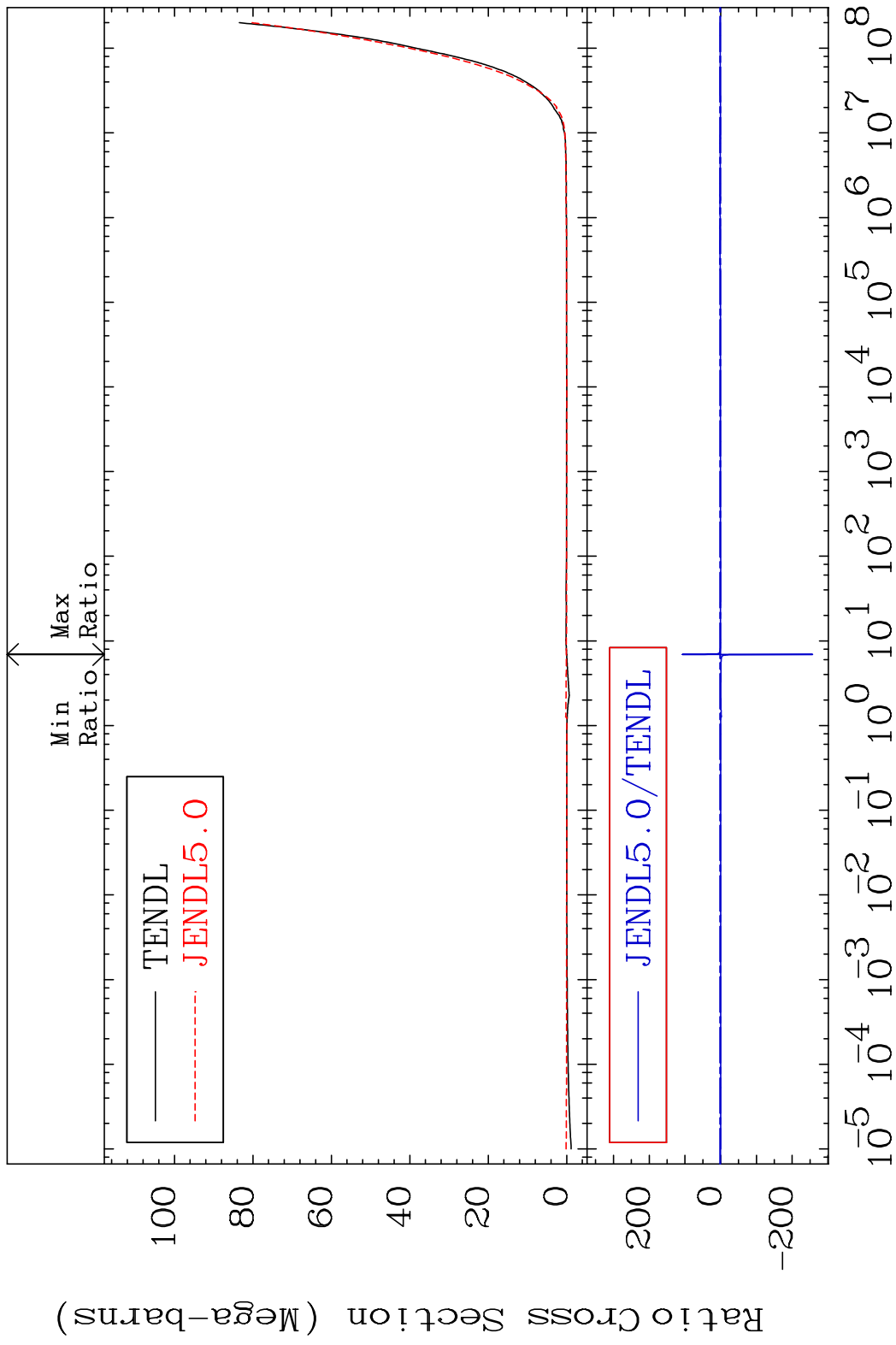


Incident Energy (eV)

56

63-Eu-147

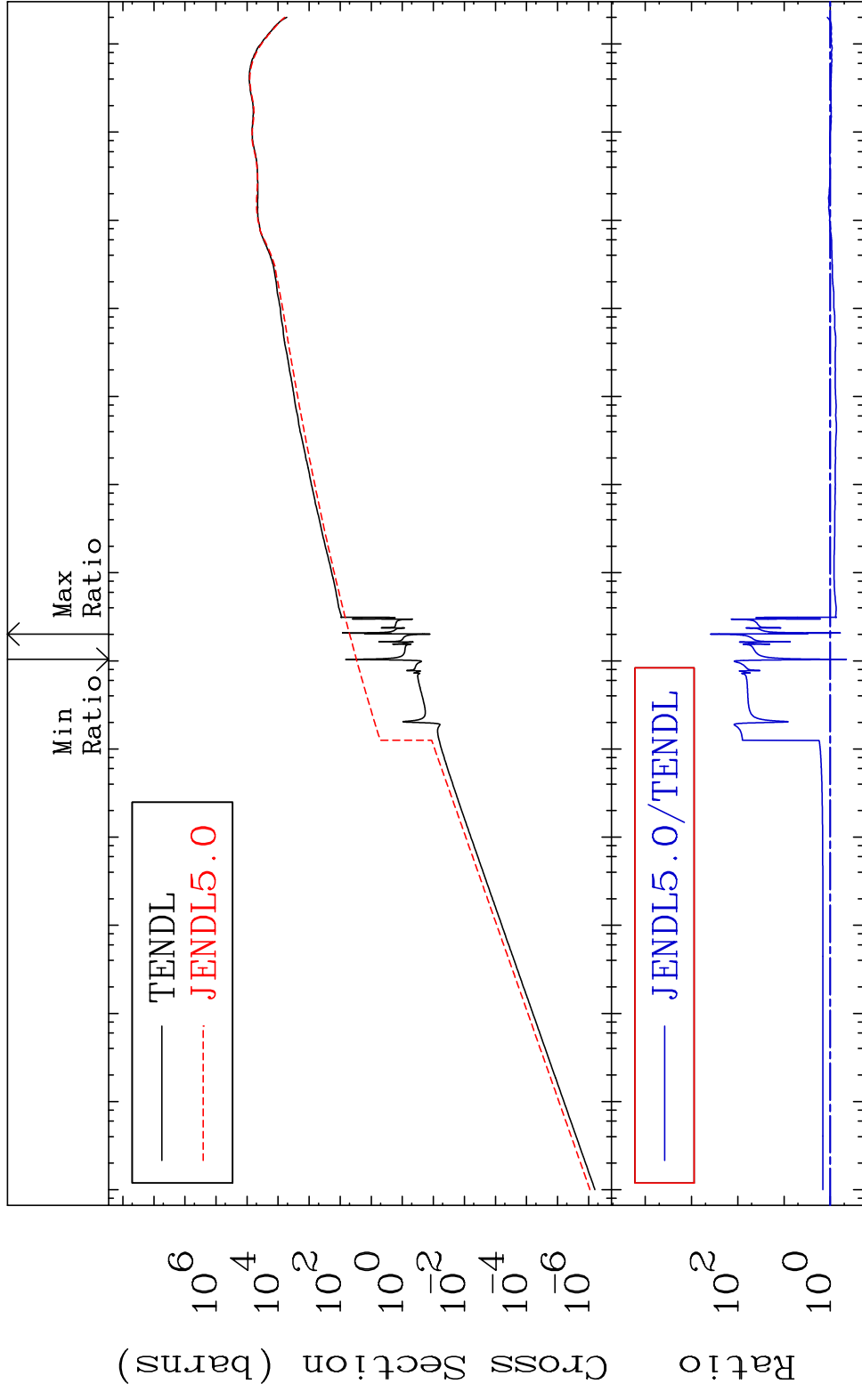
MAT 6313 Kerma total (eV-barns) 63-Eu-147  
Cross Section -9999. To 9999. %



57 Incident Energy (eV) 63-Eu-147

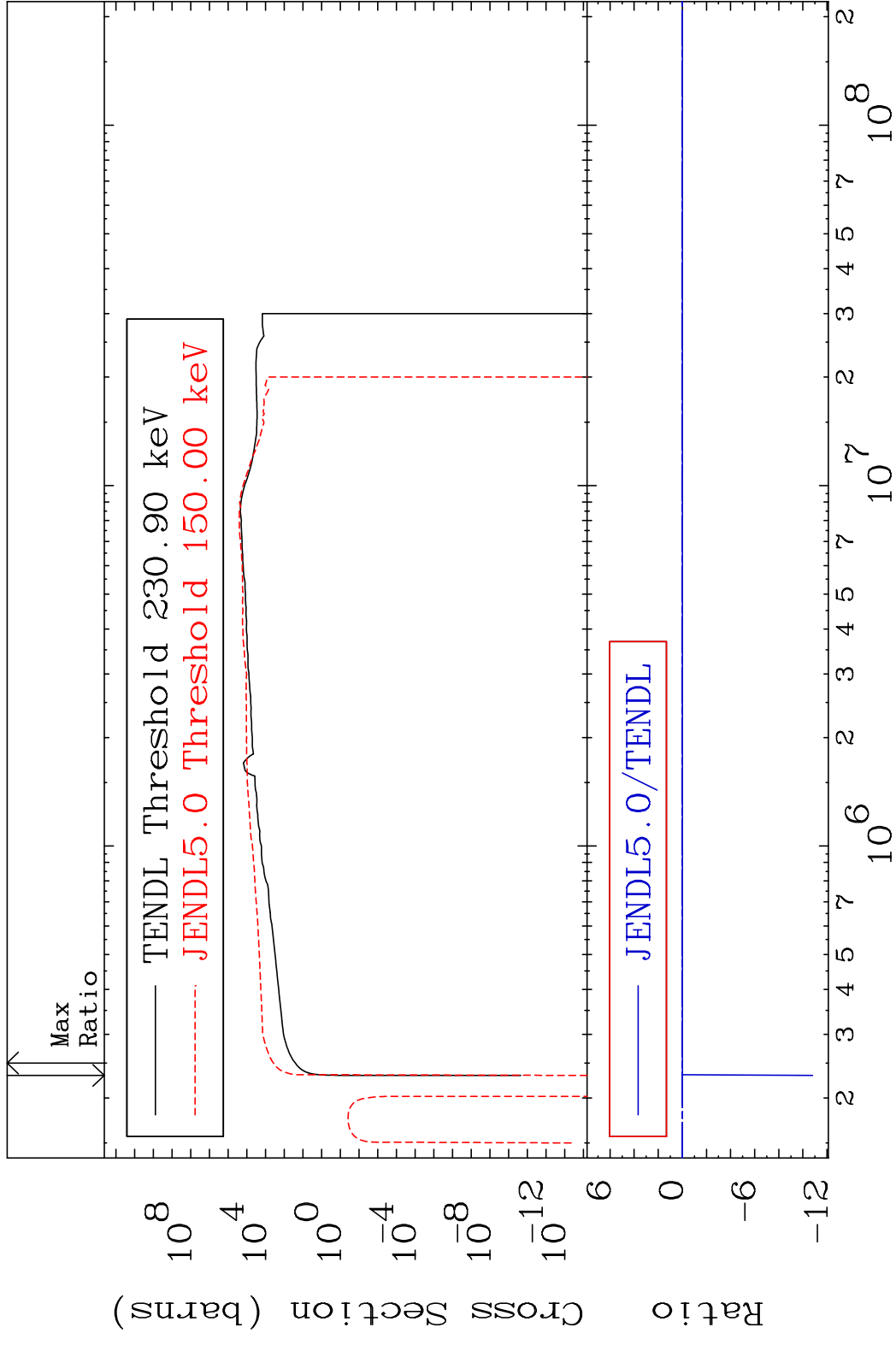
MAT 6313

Kerma elastic  
Cross Section -54.99 To 9999. %  
63-Eu-147

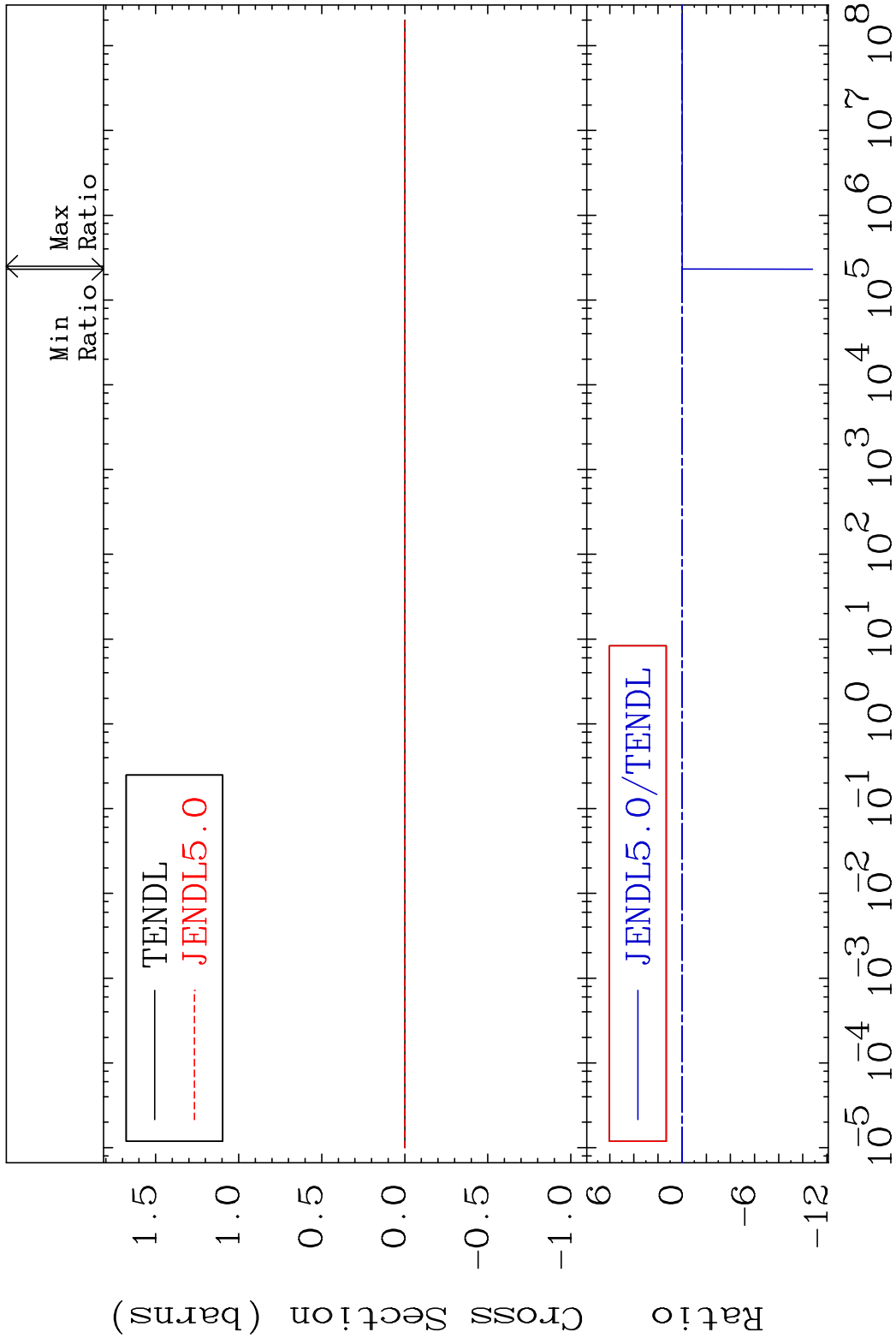




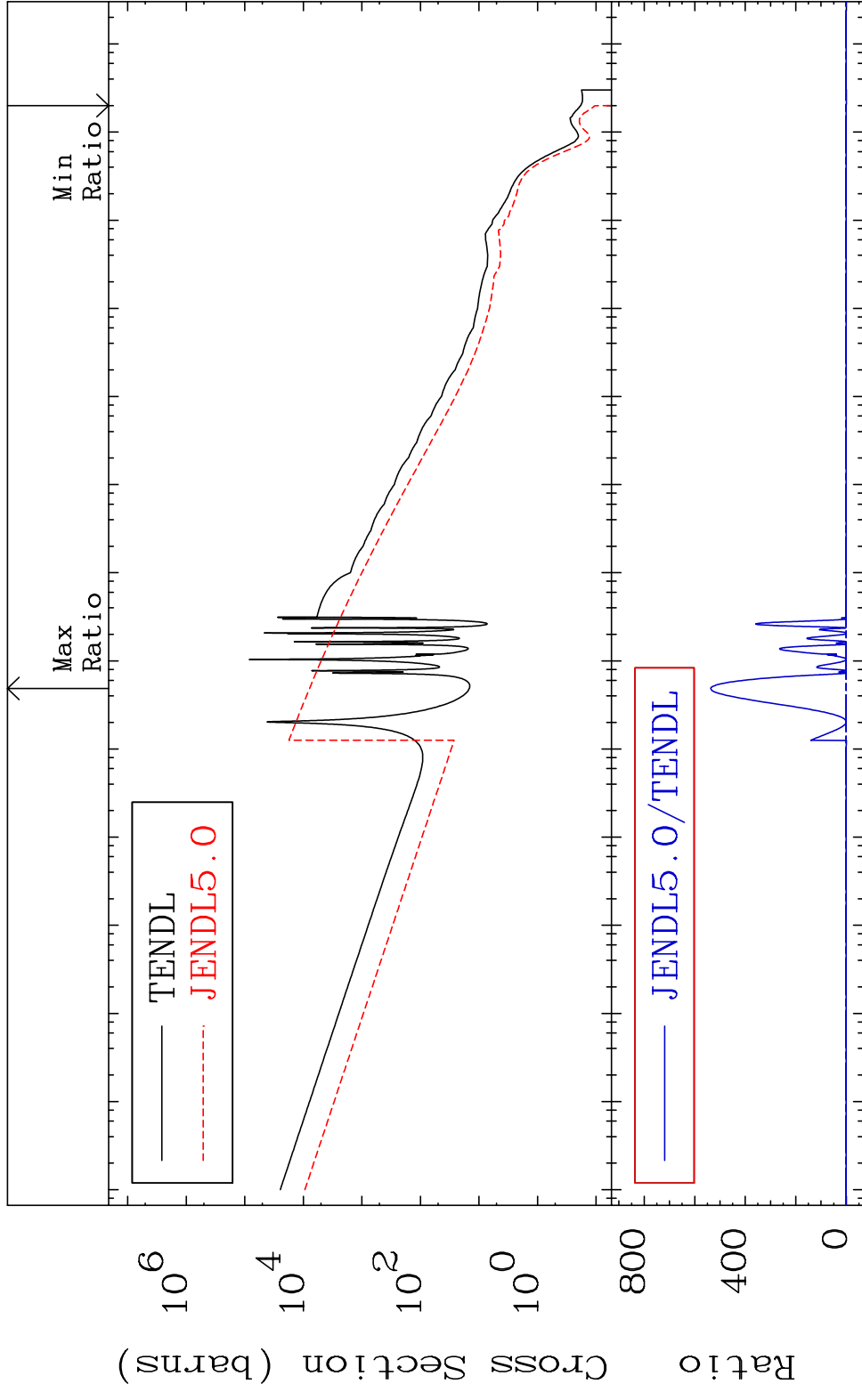
MAT 6313 Kerma inelastic (mt51-91) 63-Eu-147  
 Cross Section -9999. To 1390. %



MAT 6313 Kerma fission (mt18 or mt19-20-21-38) 63-Eu-147  
 Cross Section -9999. To 1390. %

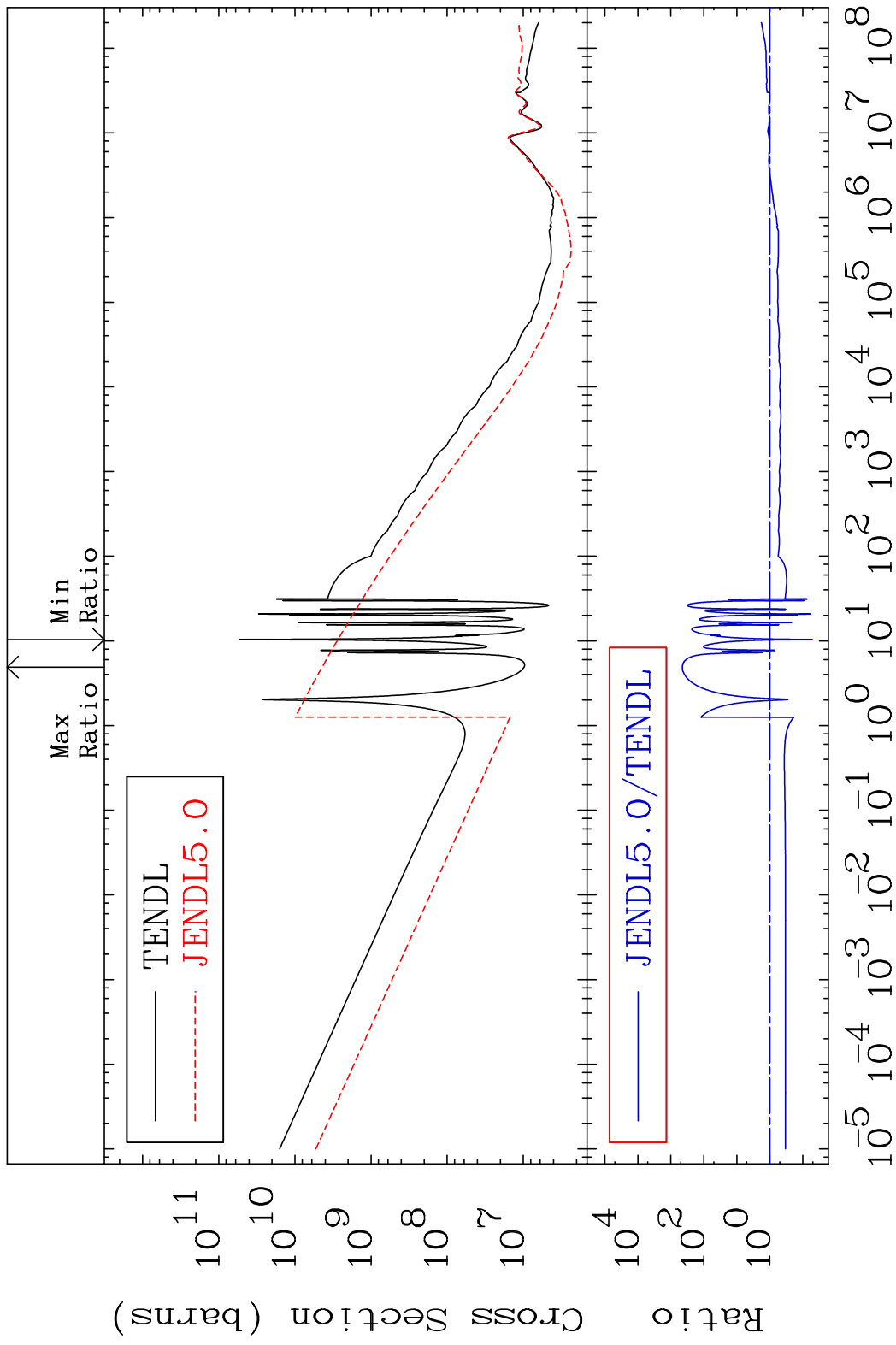


MAT 6313 Kerma capture (mt102) 63-Eu-147  
 Cross Section -100.0 To 9999. %



62 Incident Energy (eV) 63-Eu-147

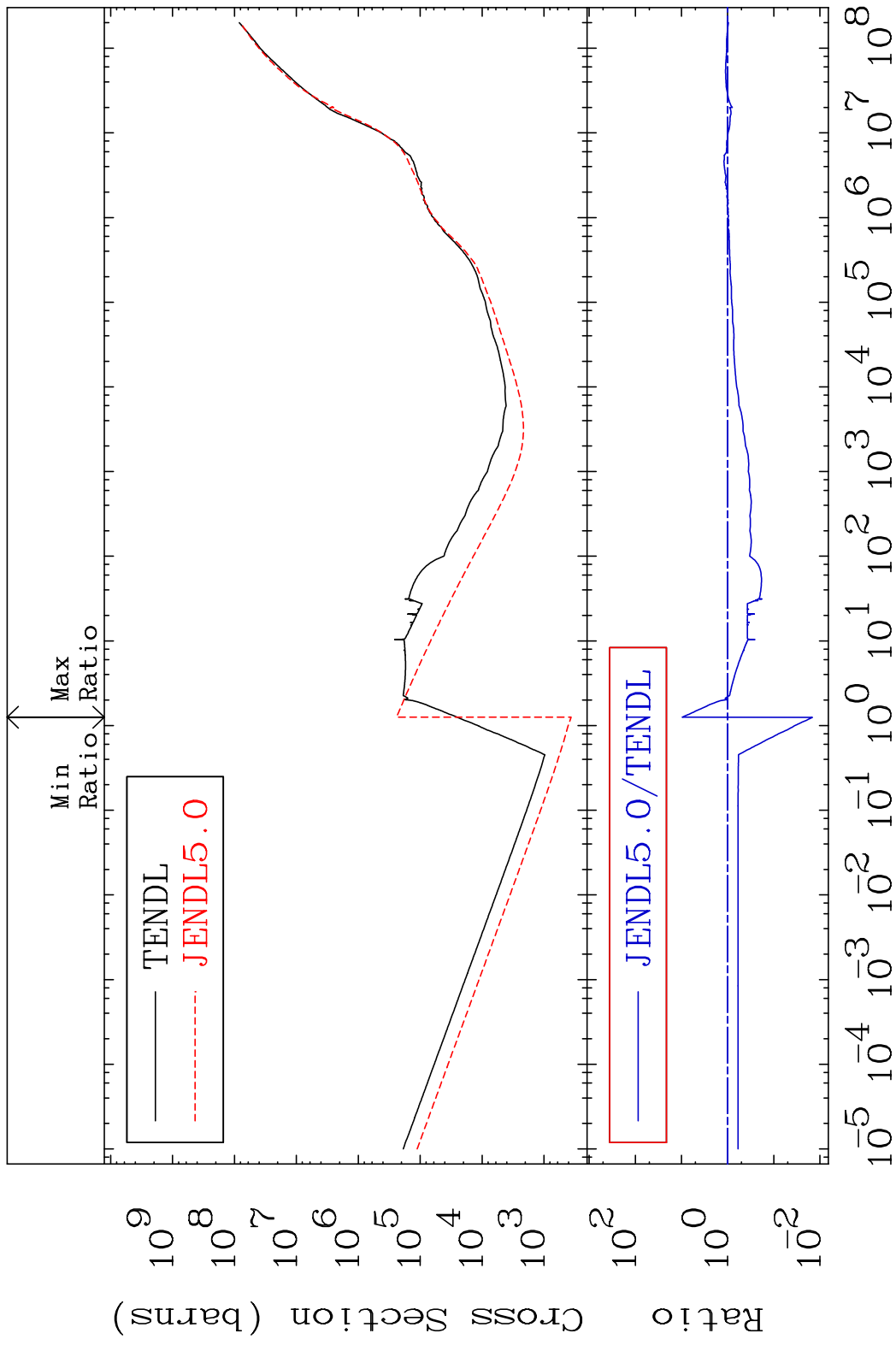
MAT 6313 Total photon (eV-barns) 63-Eu-147  
Cross Section -94.93 To 9999. %



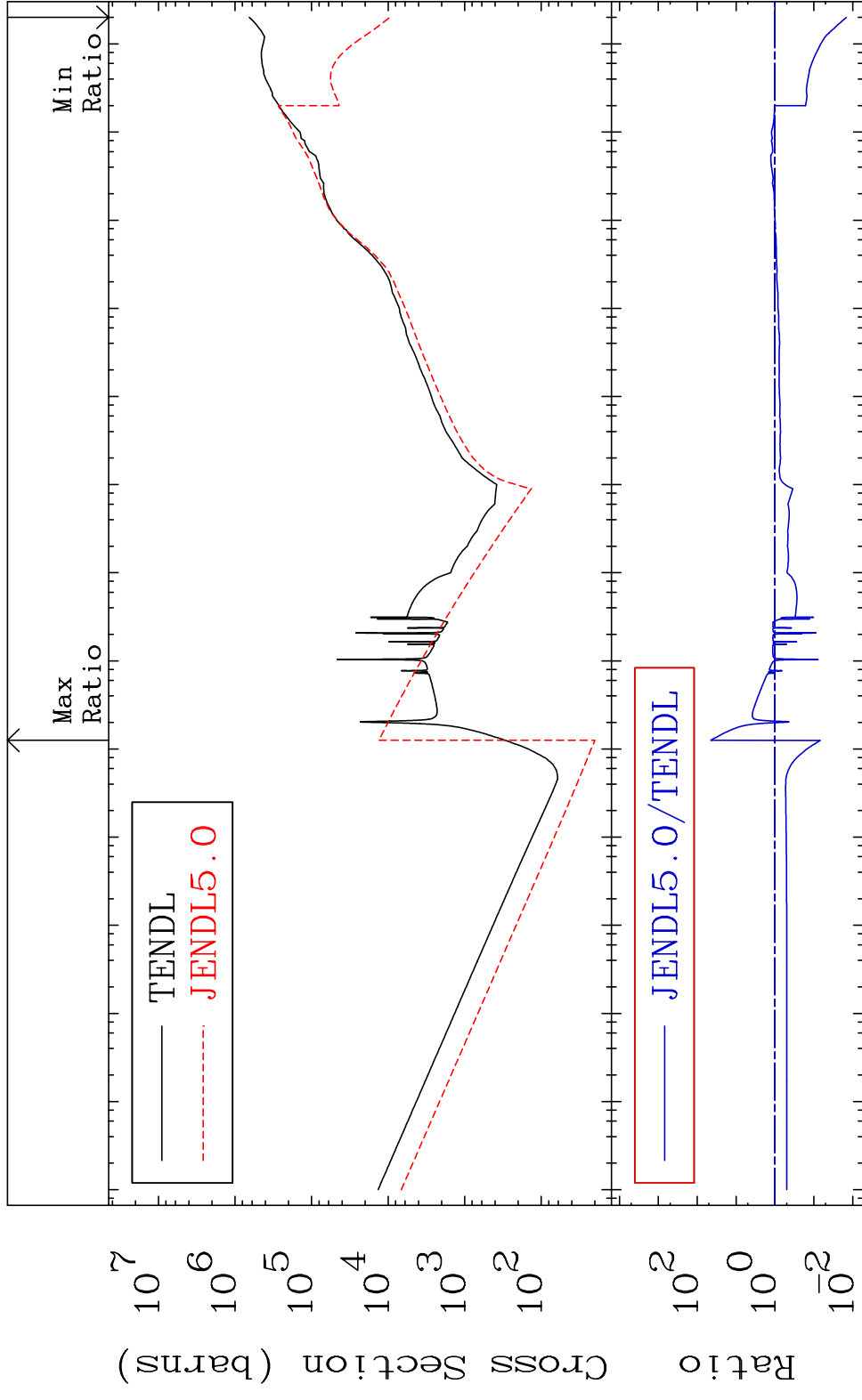
63 Incident Energy (eV) 63-Eu-147



MAT 6313 Total kinematic kerma (high limit) 63-Eu-147  
 Cross Section -98.56 To 858.5 %



MAT 6313      Dpa total (eV-barns)      63-Eu-147  
 Cross Section      -98.54 To 4391. %



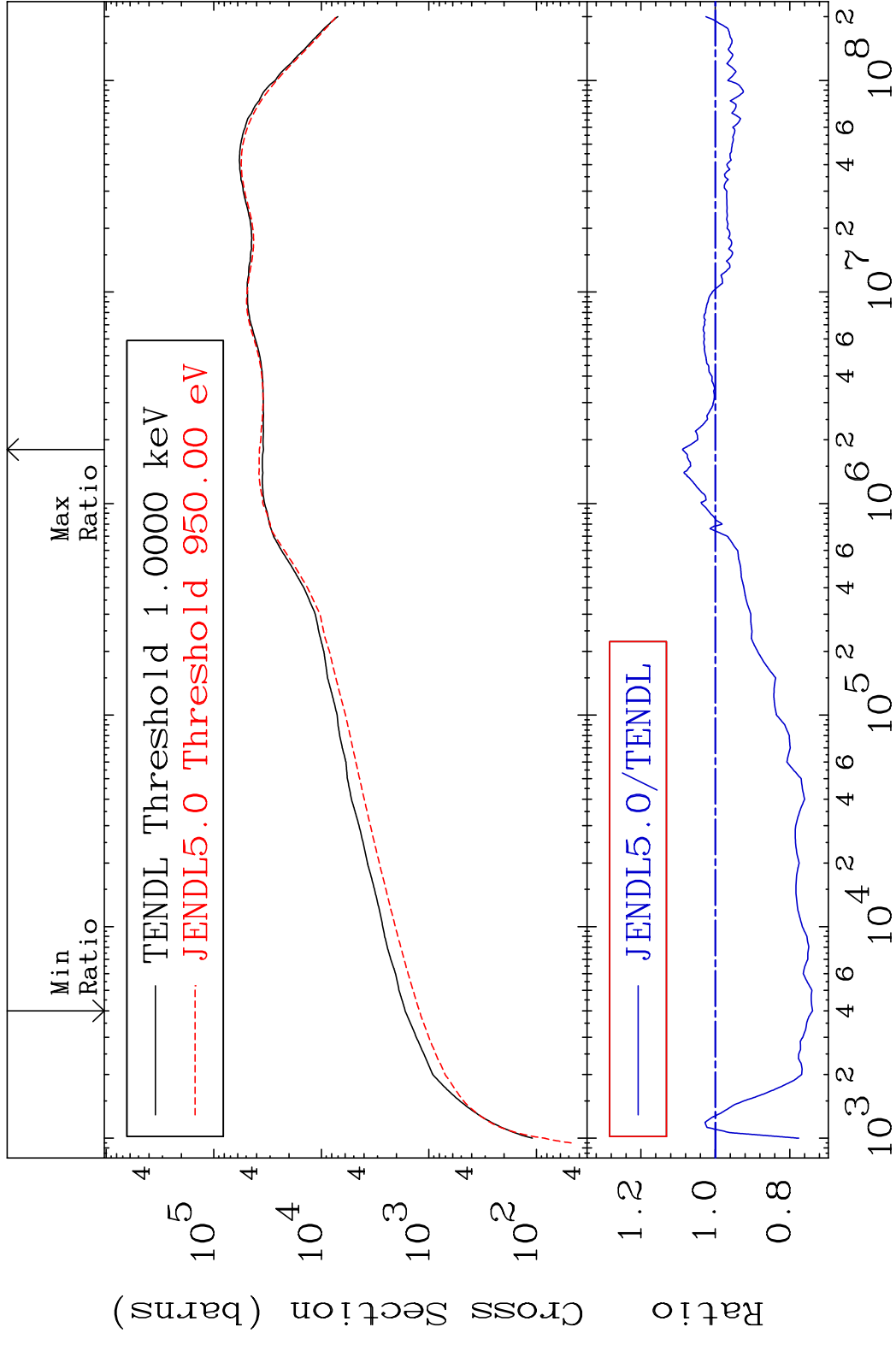
MAT 6313

Dpa elastic (mt2)

63-Eu-147

Cross Section

-26.13 To 8.865 %

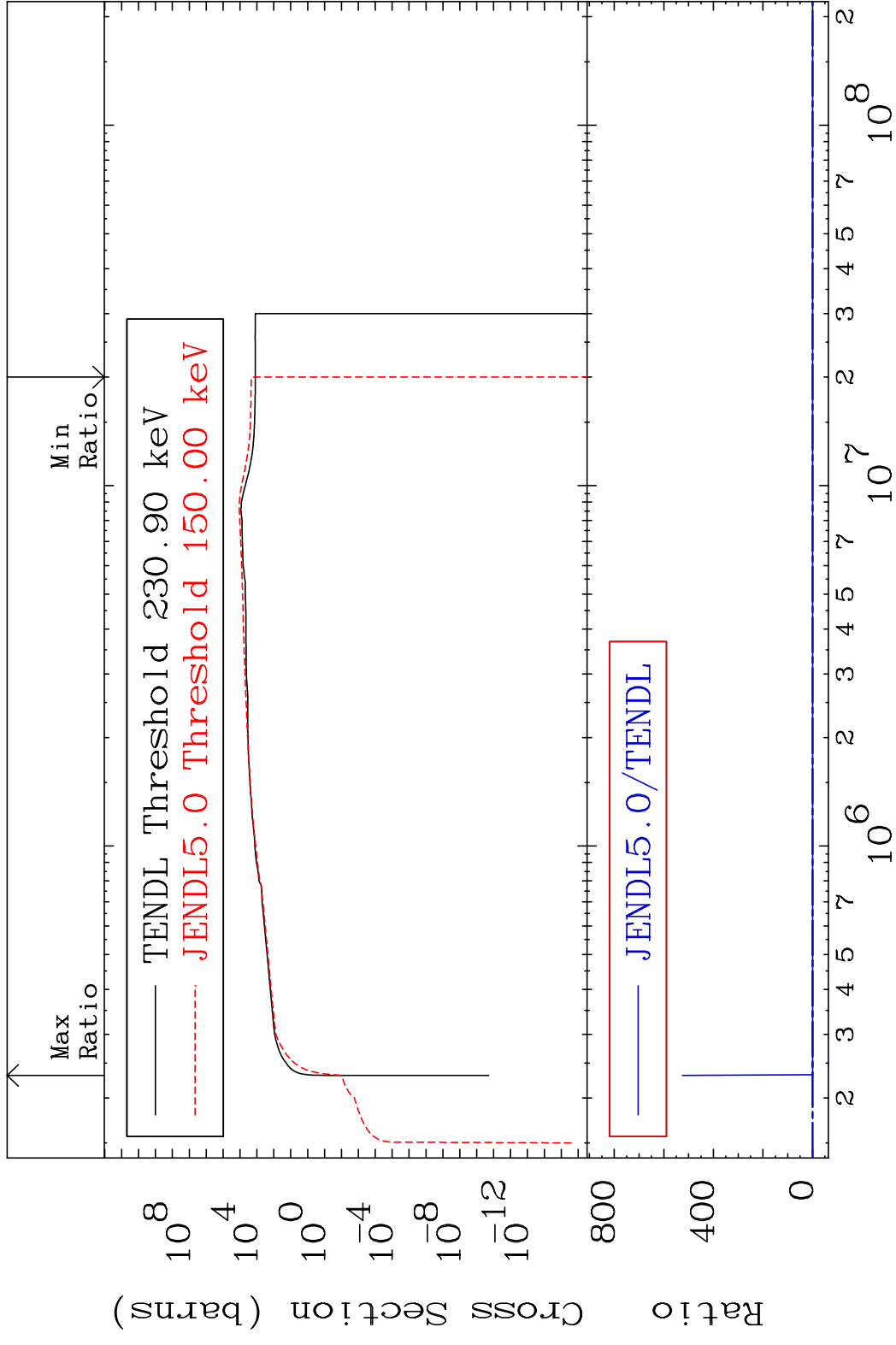


66

Incident Energy (eV)

63-Eu-147

MAT 6313      Dpa inelastic (mt51-91)      63-Eu-147  
 Cross Section      -100.0 To 9999. %



MAT 6313 Dpa disappearance (mt102 -120) 63-Eu-147  
 Cross Section -100.0 To 4391. %

