

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

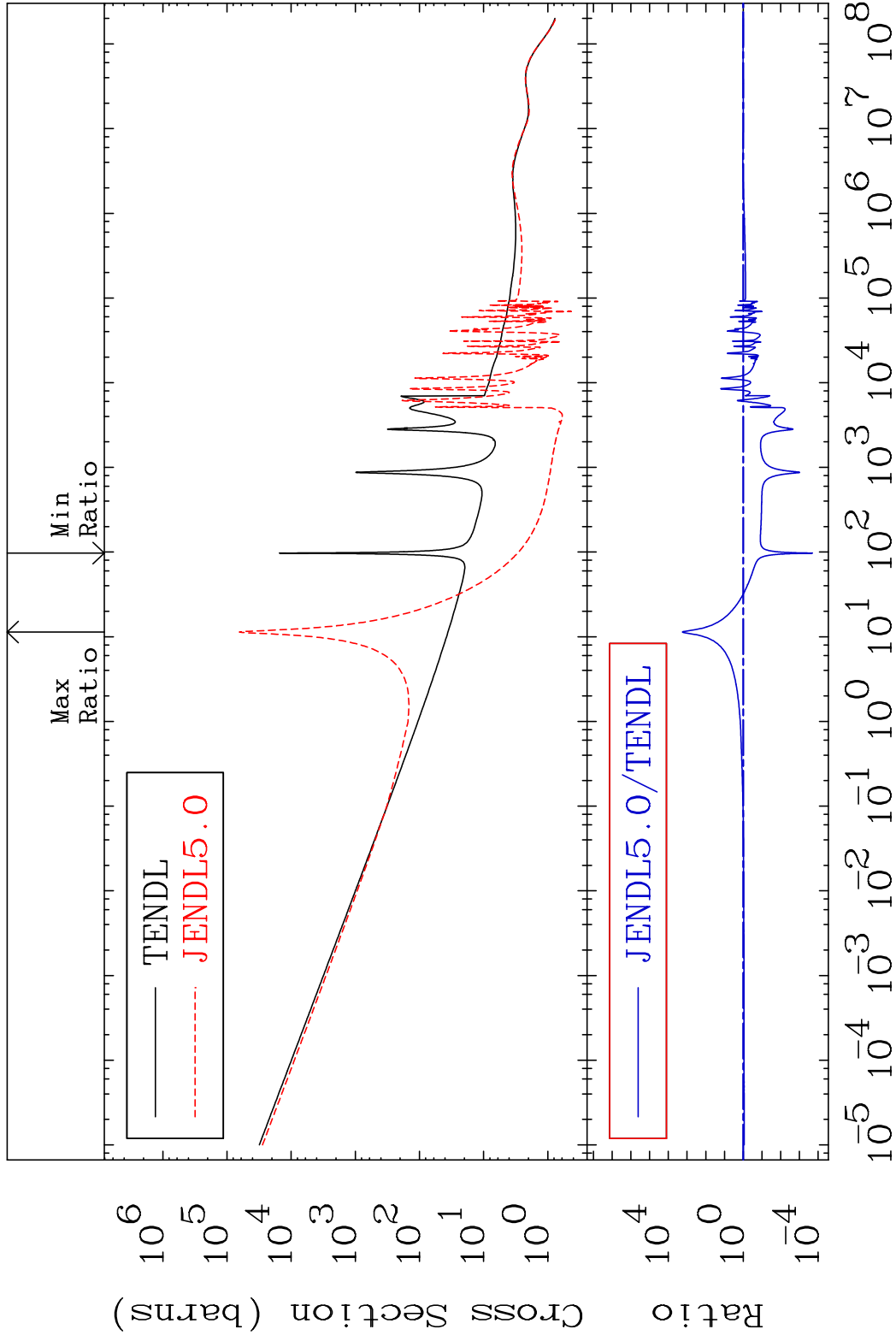
Press Mouse Button to Start

MAT 1834

Total

18-Ar-39

Cross Section -99.98 To 9999. %



1

Incident Energy (eV)

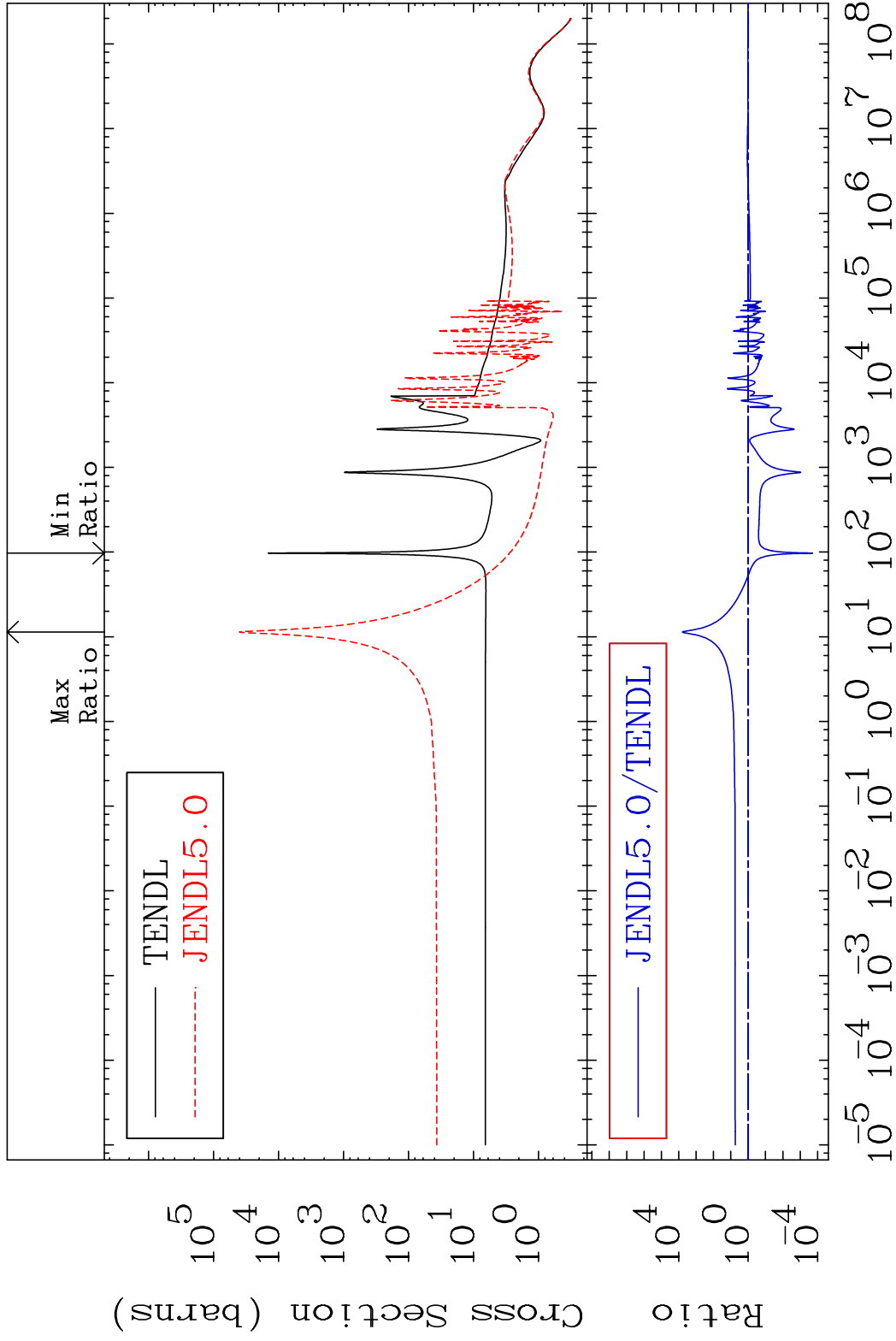
18-Ar-39

MAT 1834

Elastic

18-Ar-39

Cross Section -99.98 To 9999. %



2

Incident Energy (eV)

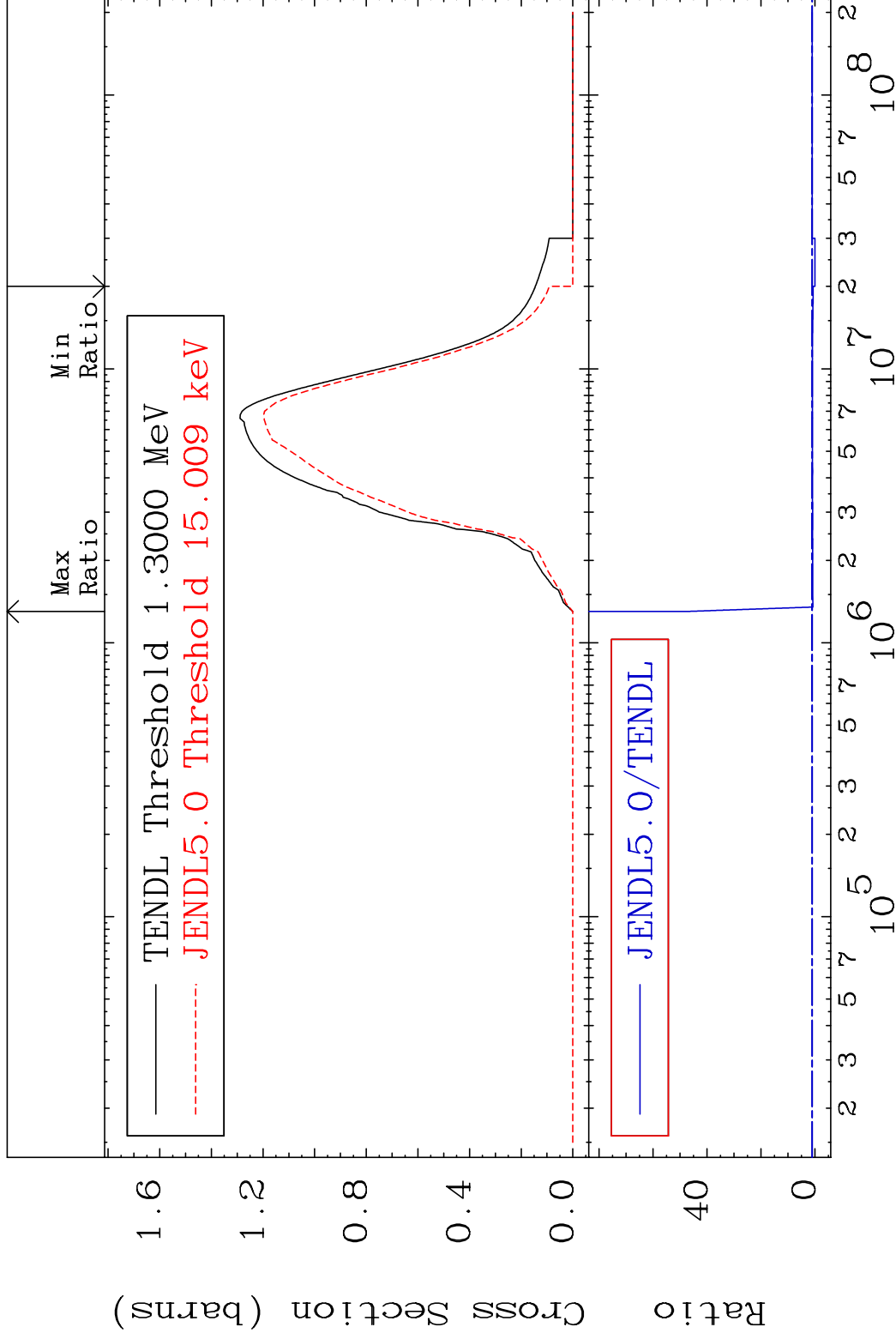
18-Ar-39

MAT 1834

Inelastic

18-Ar-39

Cross Section -100.0 To 4738. %



3

Incident Energy (eV)

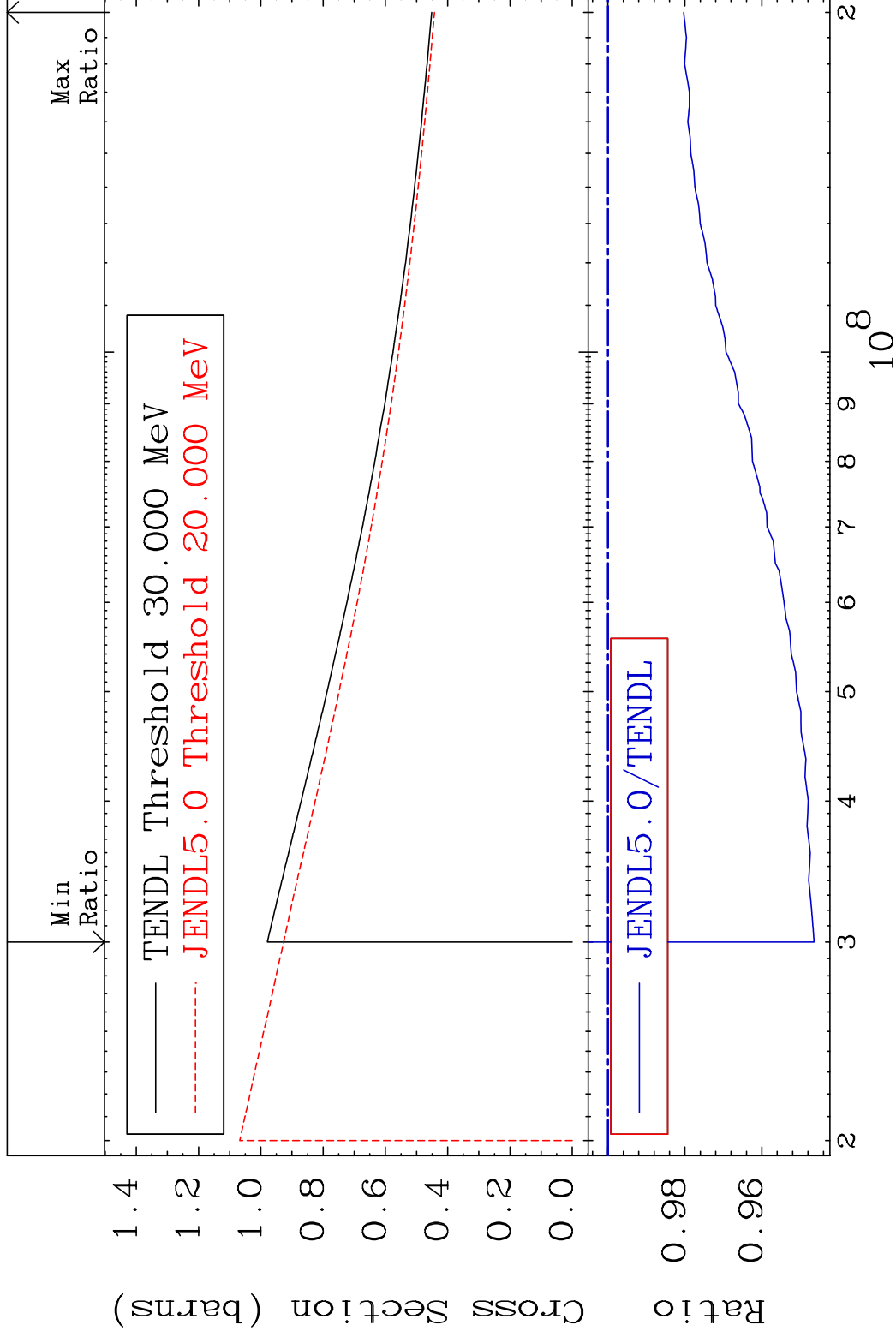
18-Ar-39

MAT 1834

(n, remainder)

18-Ar-39

Cross Section -5.358 To -1.968%



4

Incident Energy (eV)

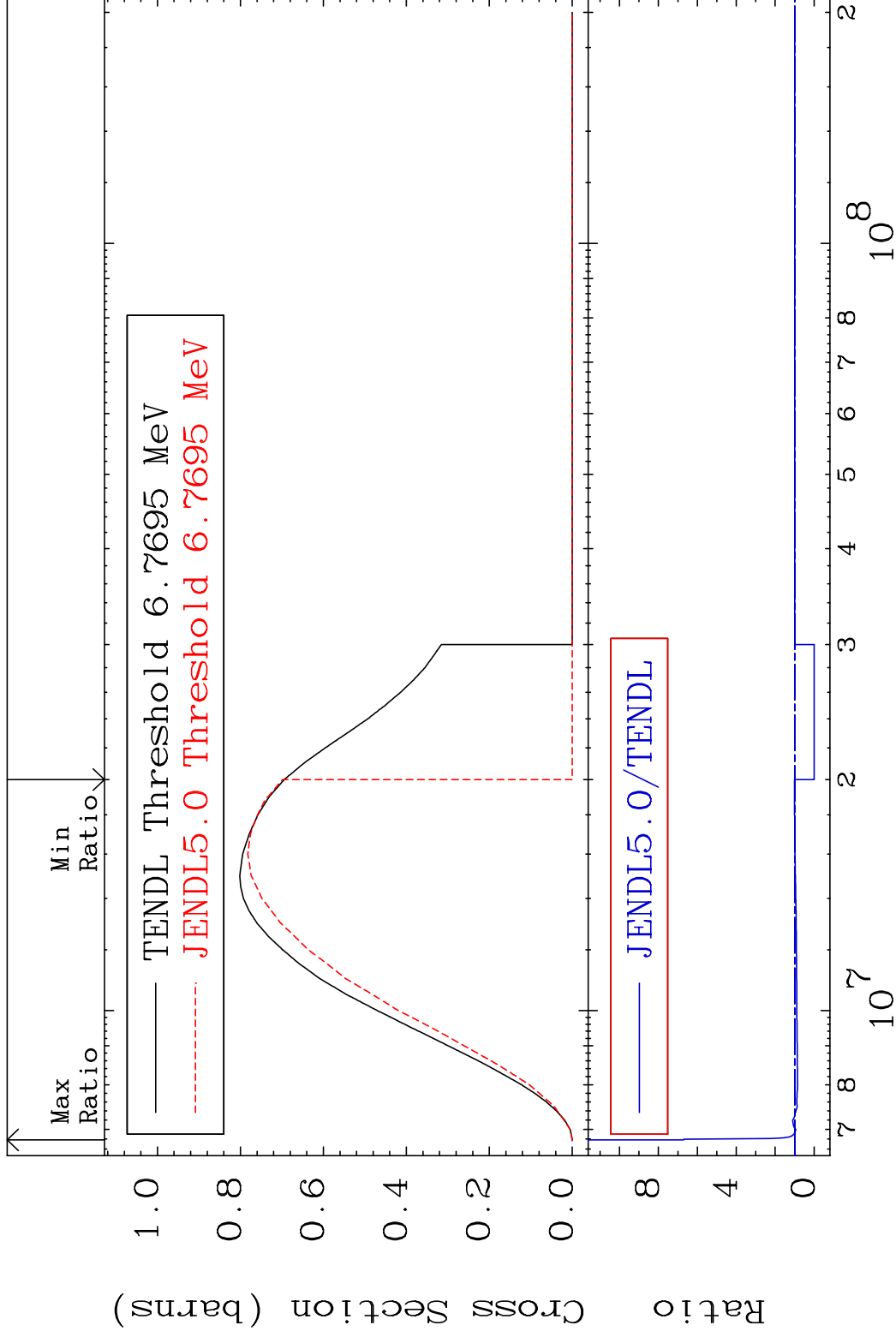
18-Ar-39

MAT 1834

(n,2n)

18-Ar-39

Cross Section -100.0 To 570.3 %

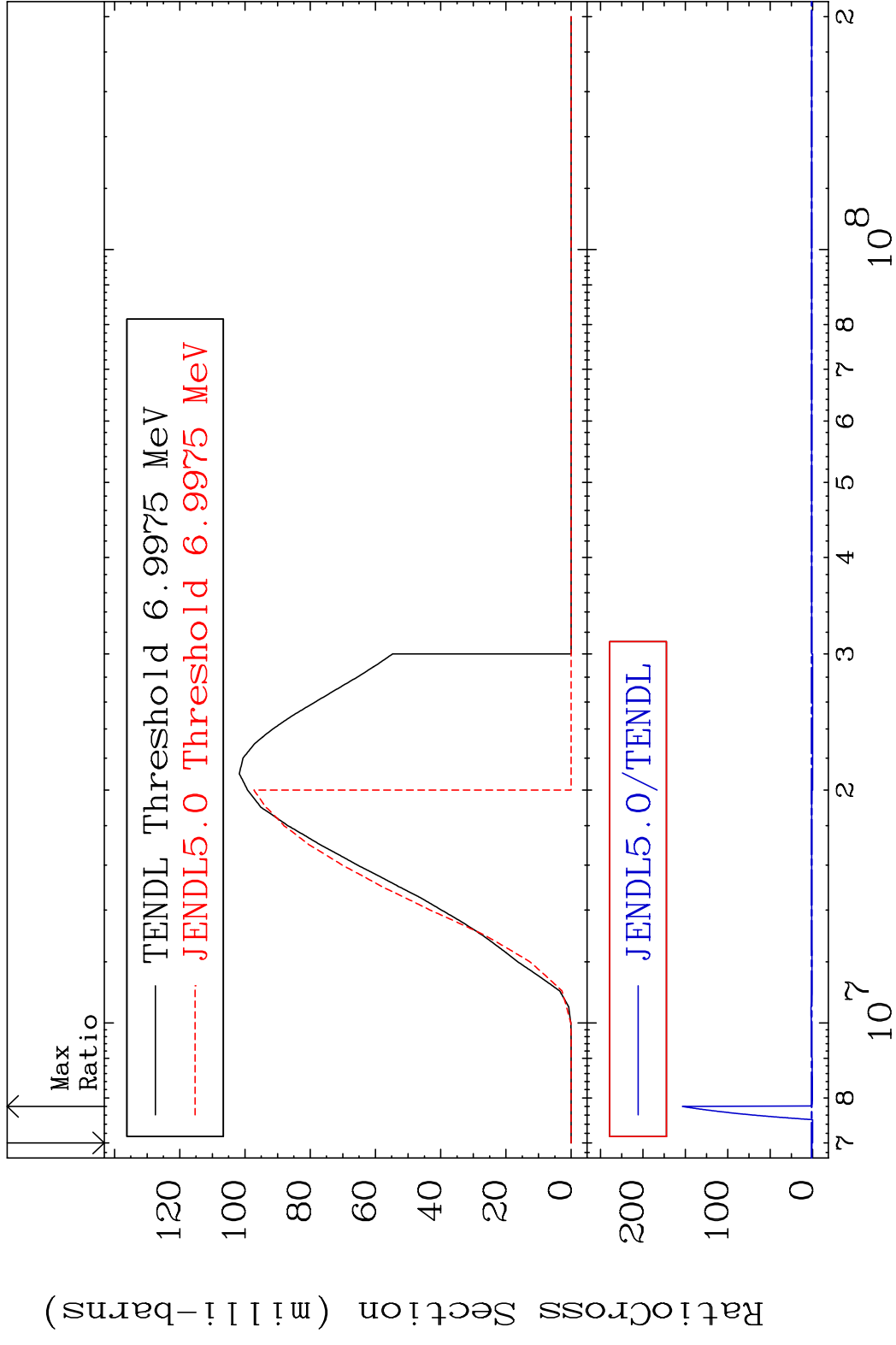


5

Incident Energy (eV)

18-Ar-39

MAT 1834 (n, n')  $\alpha$  18-Ar-39  
 Cross Section -100.0 To 9999. %

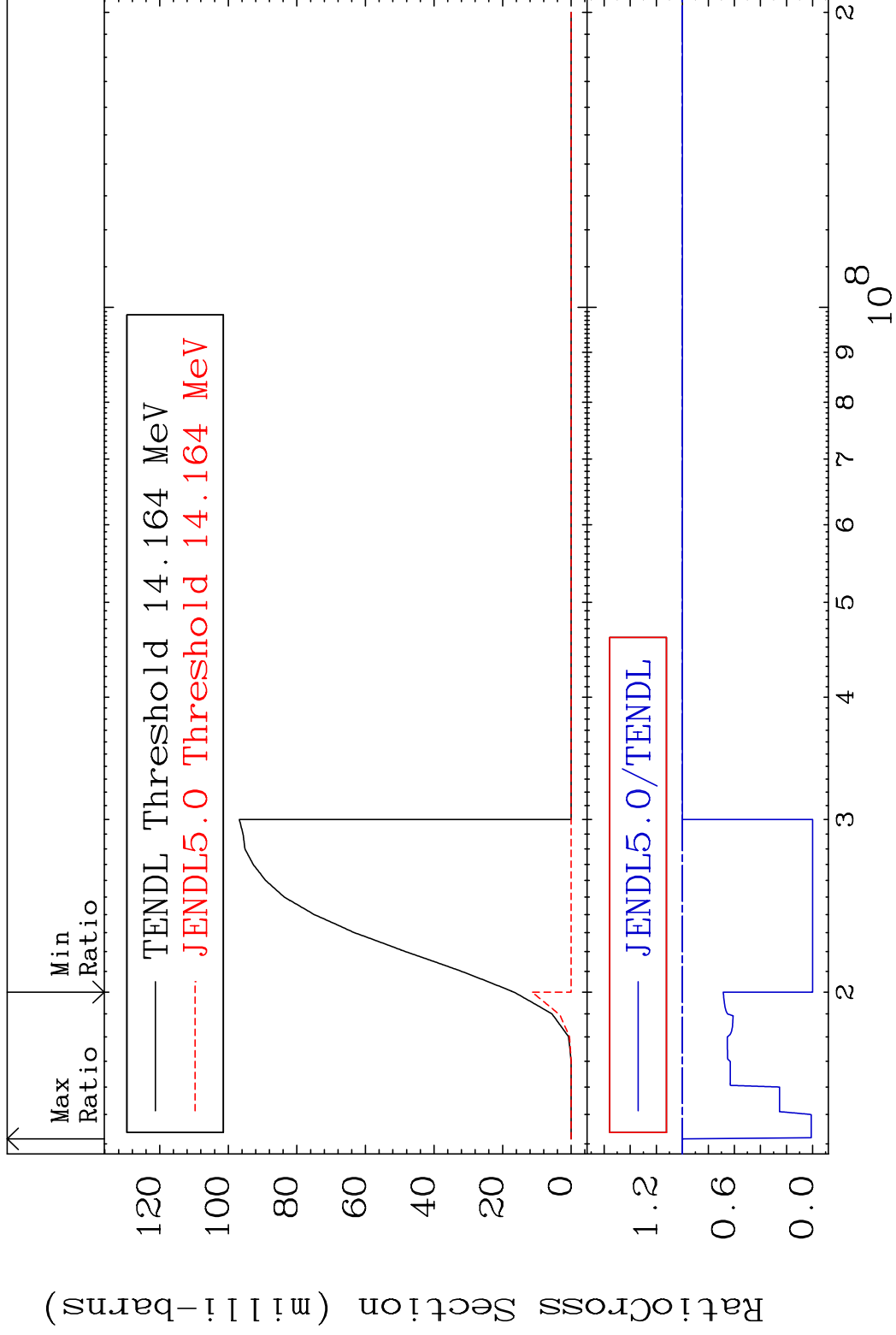


MAT 1834

(n,2n)  $\alpha$

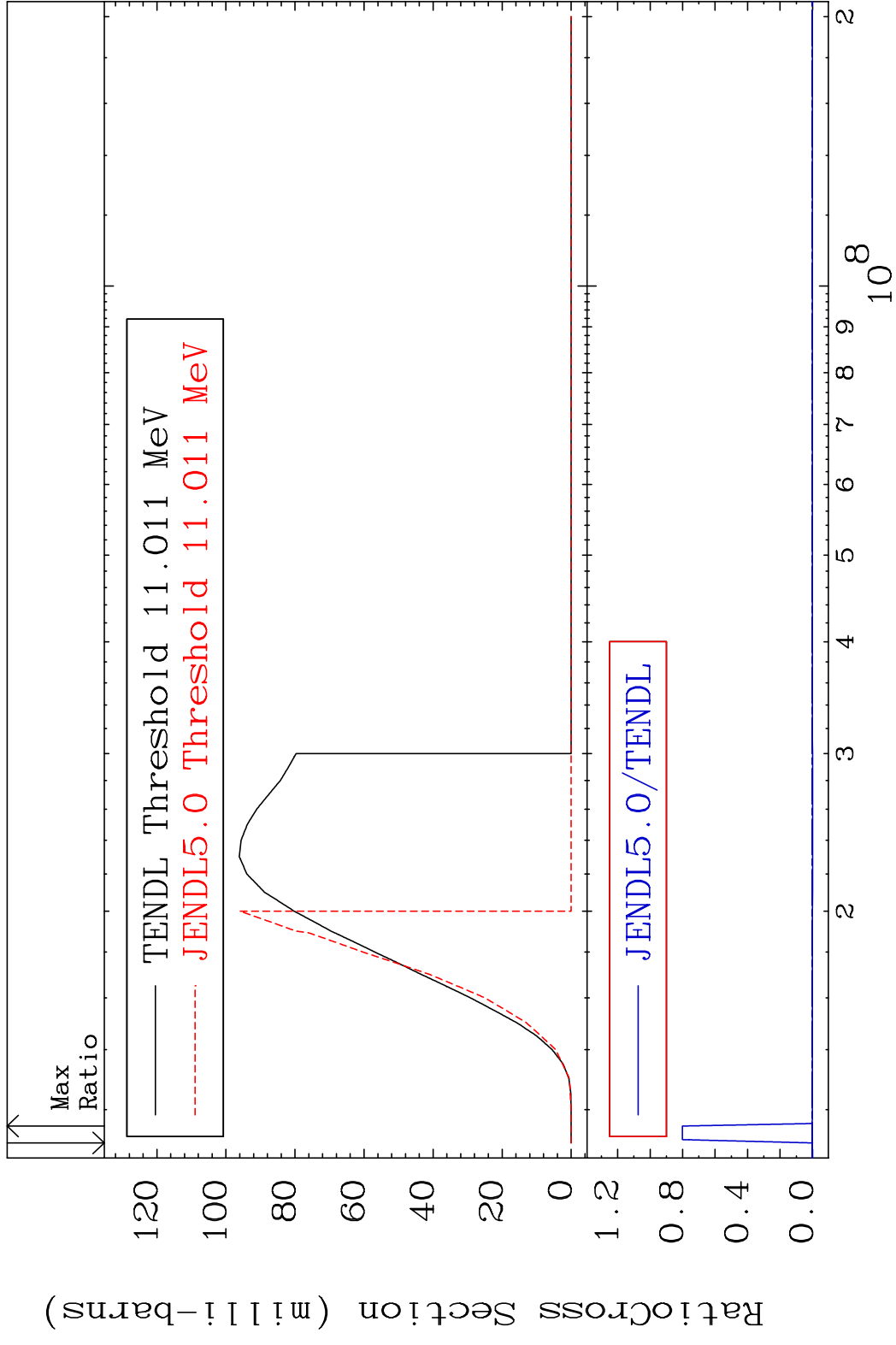
18-Ar-39

Cross Section -100.0 To 0.000 %

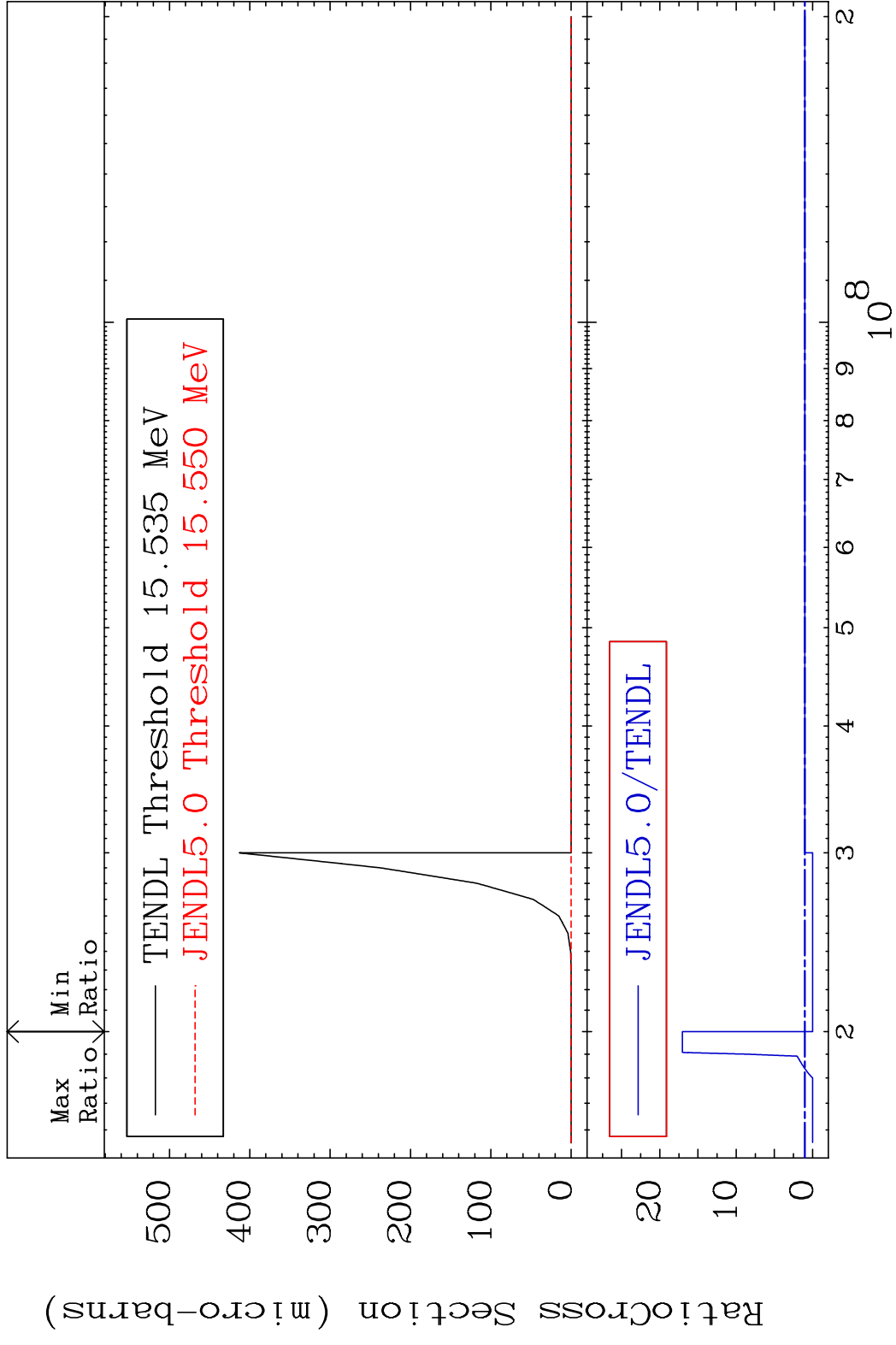




MAT 1834 (n, n') p 18-Ar-39  
 Cross Section -100.0 To 9999. %



MAT 1834 (n, n')  $2\alpha$  18-Ar-39  
 Cross Section -100.0 To 1605. %

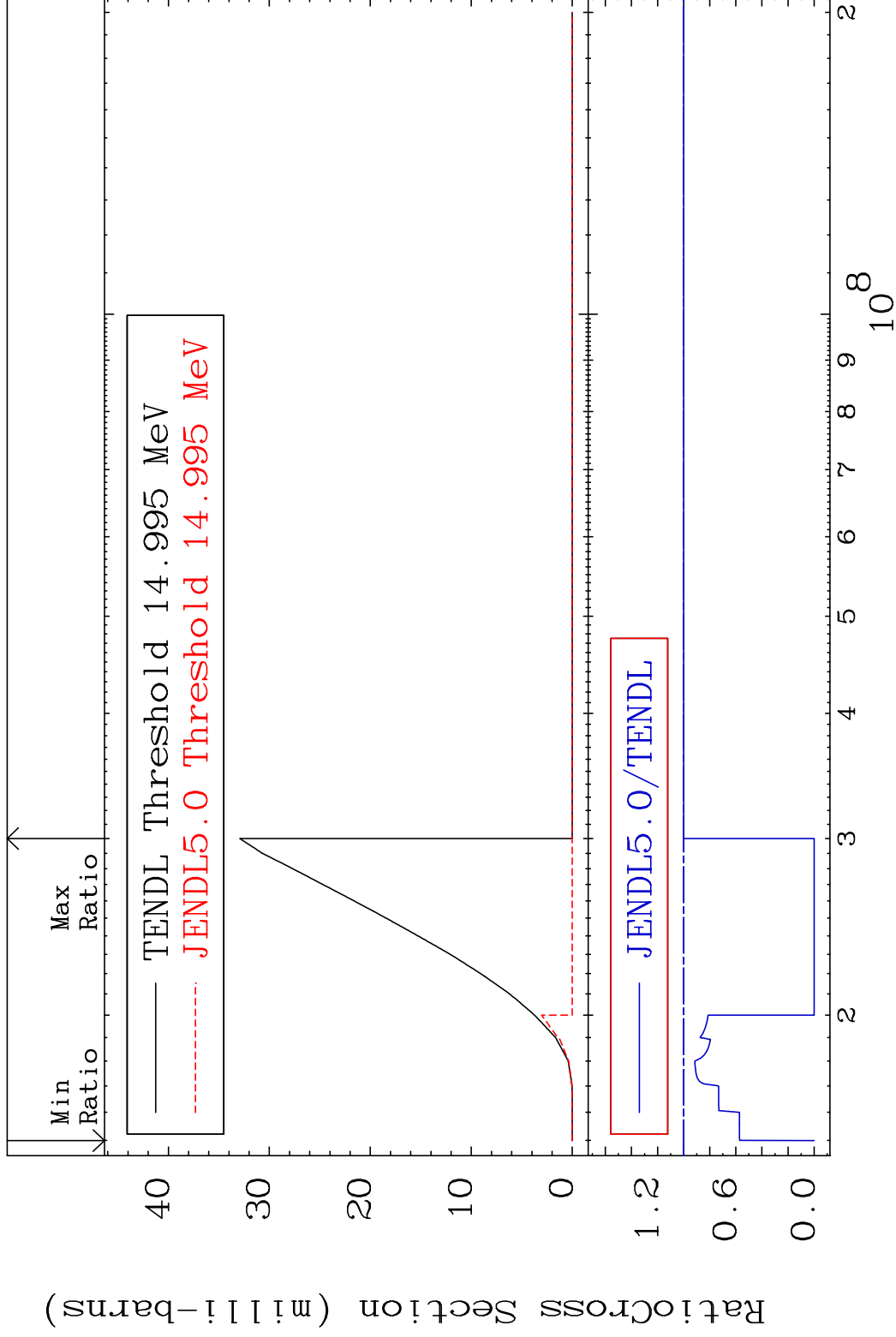


MAT 1834

(n, n') d

18-Ar-39

Cross Section -100.0 To 0.000 %



10

Incident Energy (eV)

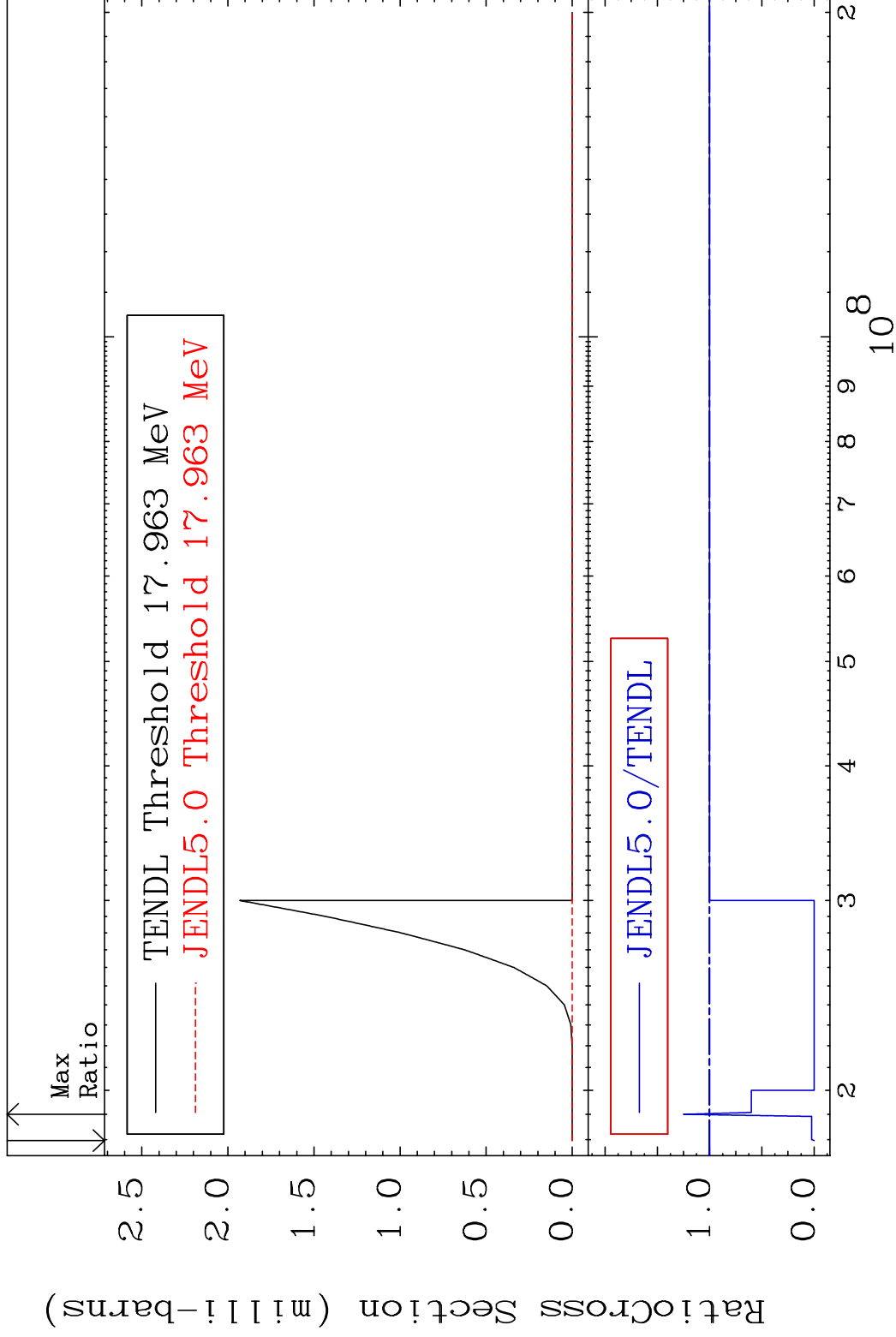
18-Ar-39

MAT 1834

(n,n') He-3

18-Ar-39

Cross Section -100.0 To 24.83 %

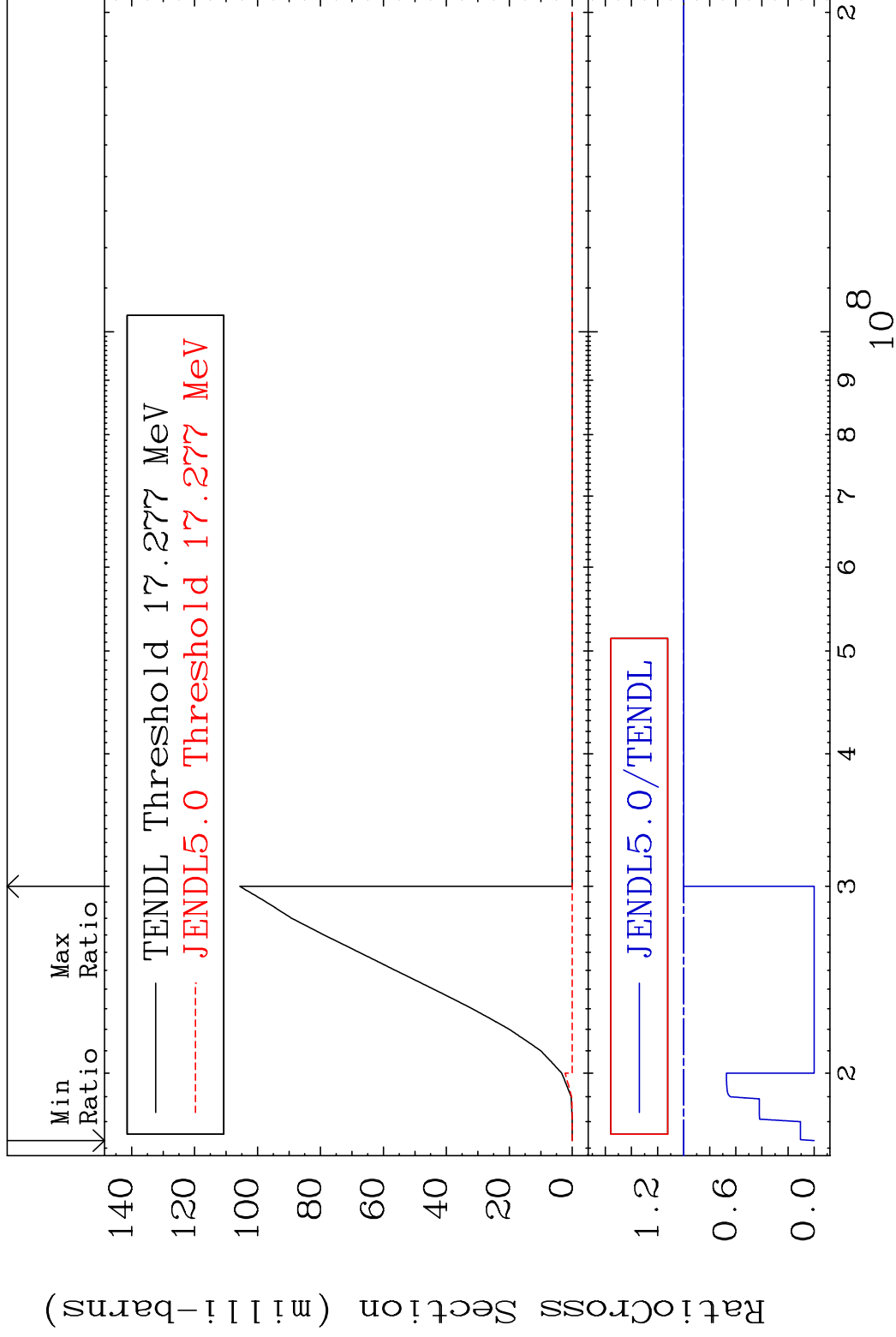


MAT 1834

(n,2n) p

18-Ar-39

Cross Section -100.0 To 0.000 %

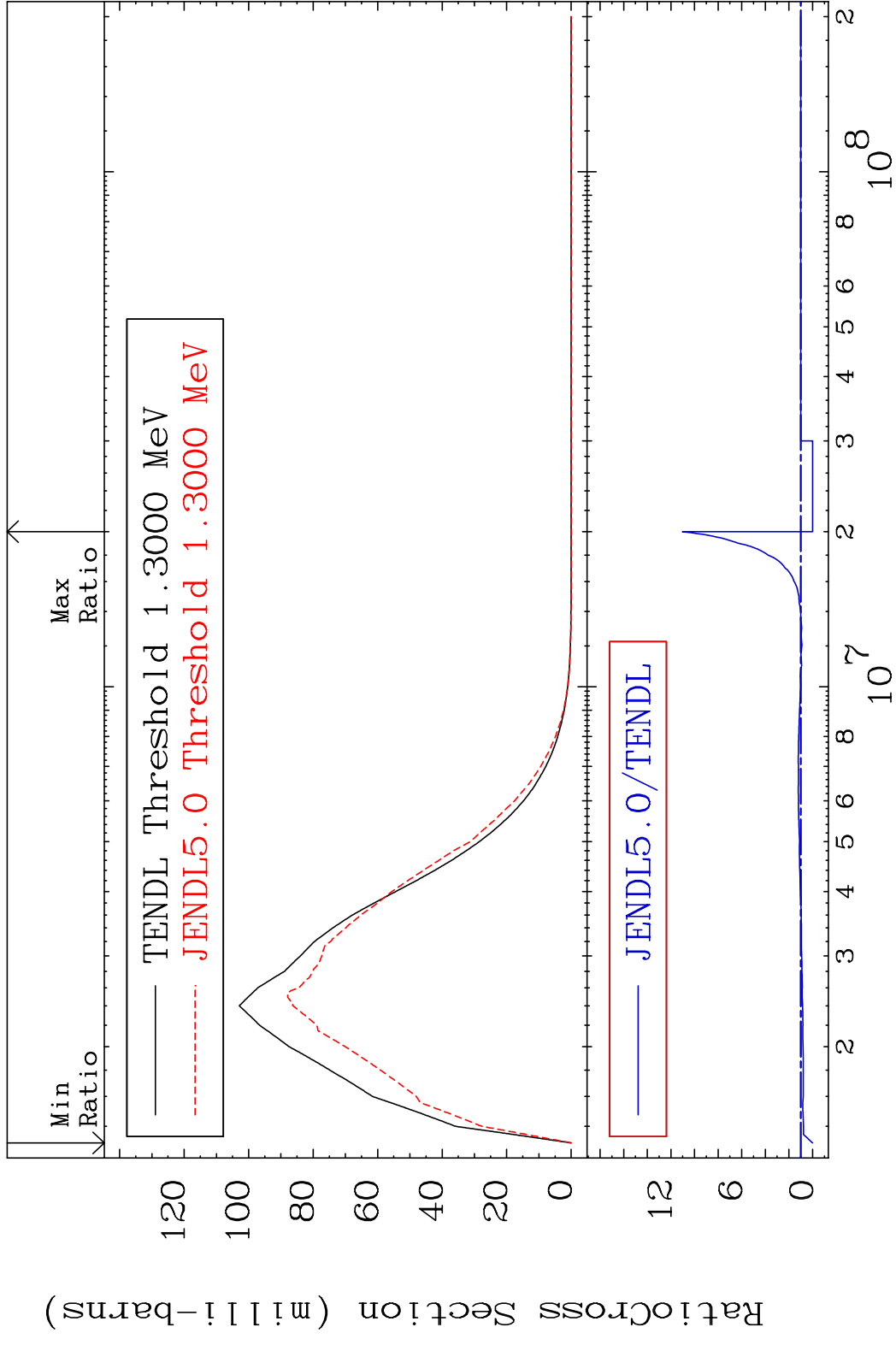


12

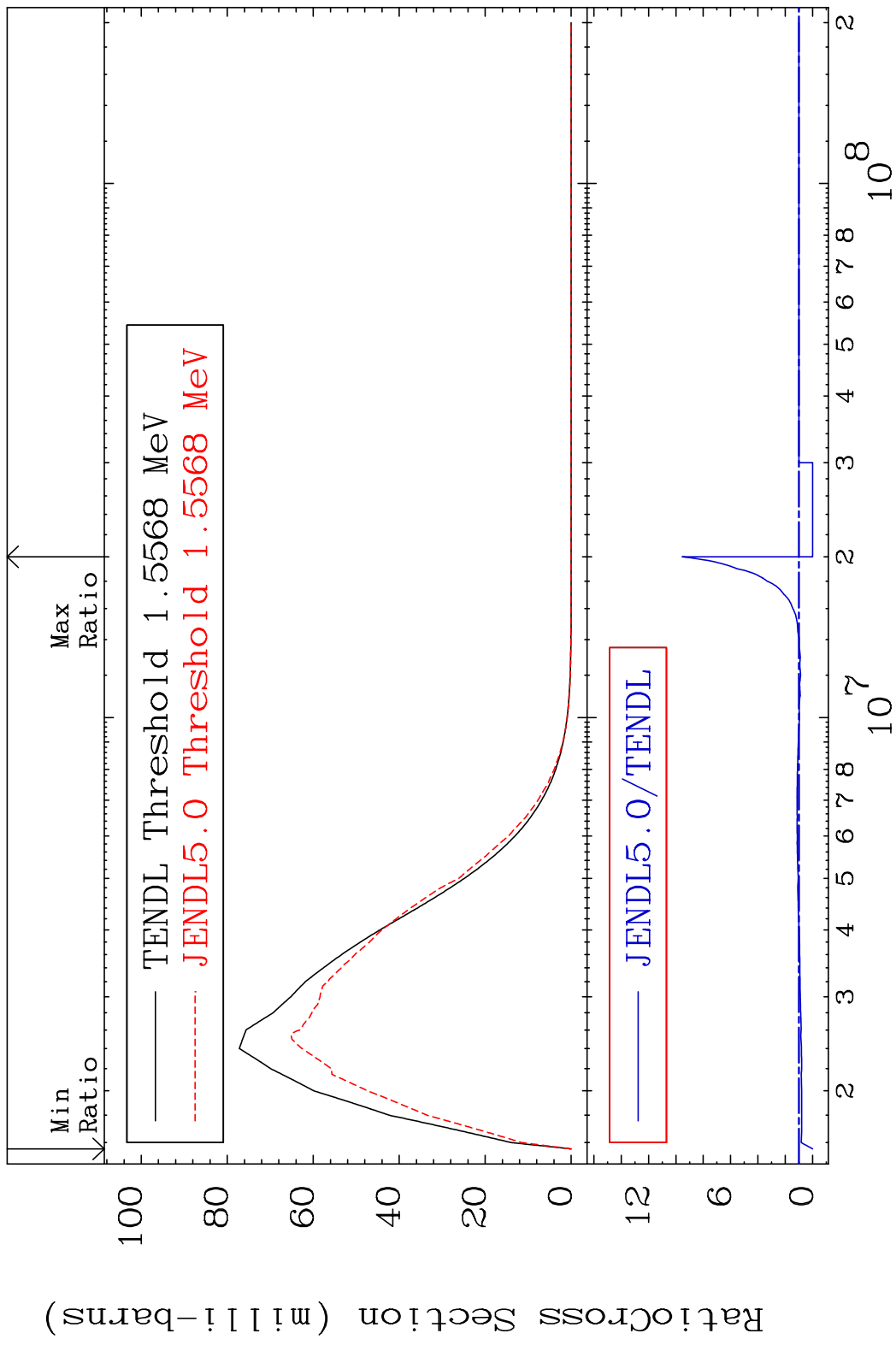
Incident Energy (eV)

18-Ar-39

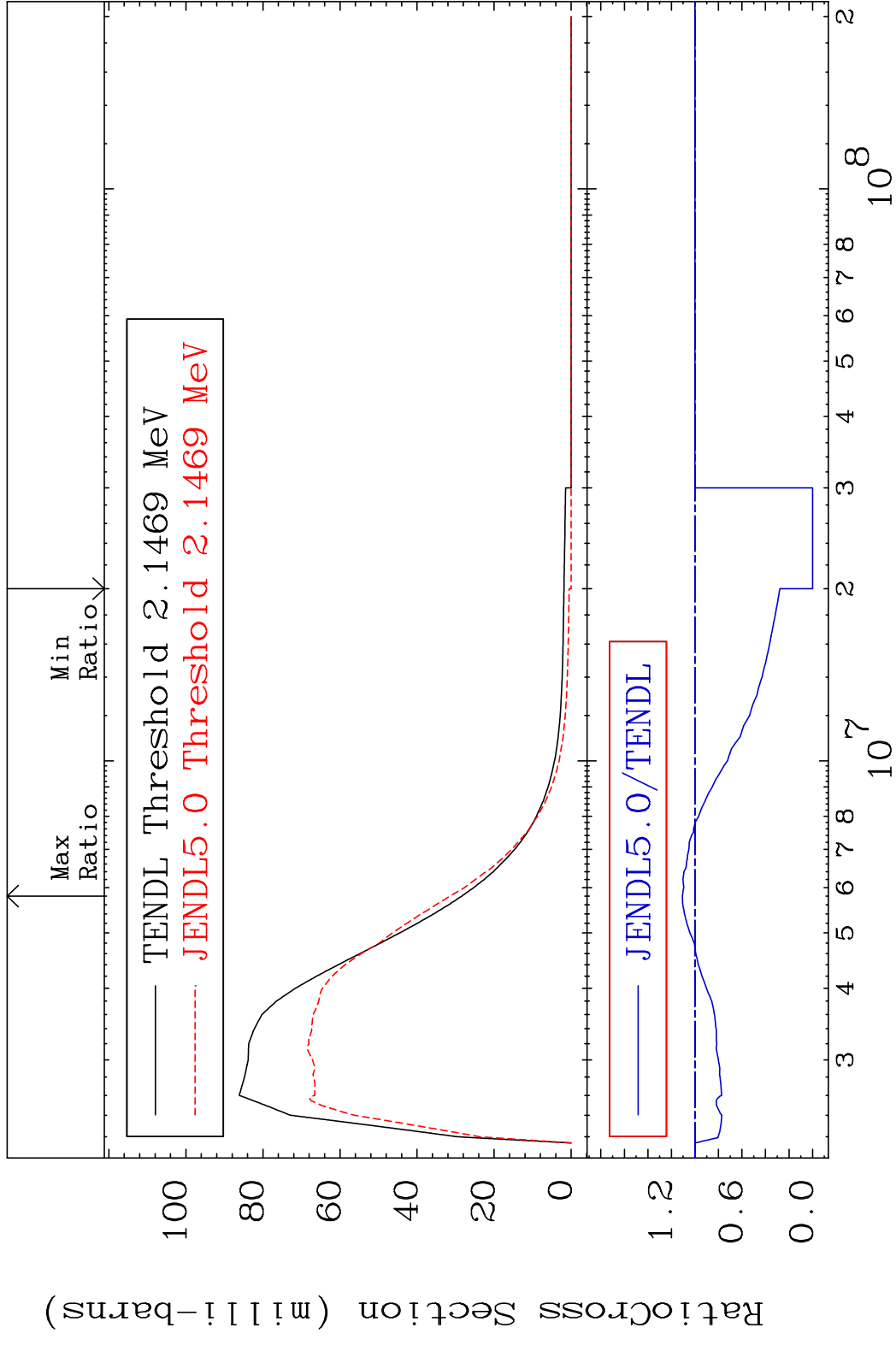
MAT 1834 MT= 51 (n, n') Level 18-Ar-39  
 Cross Section -100.0 To 1003. %



MAT 1834 MT= 52 (n, n') Level 18-Ar-39  
 Cross Section -100.0 To 853.0 %



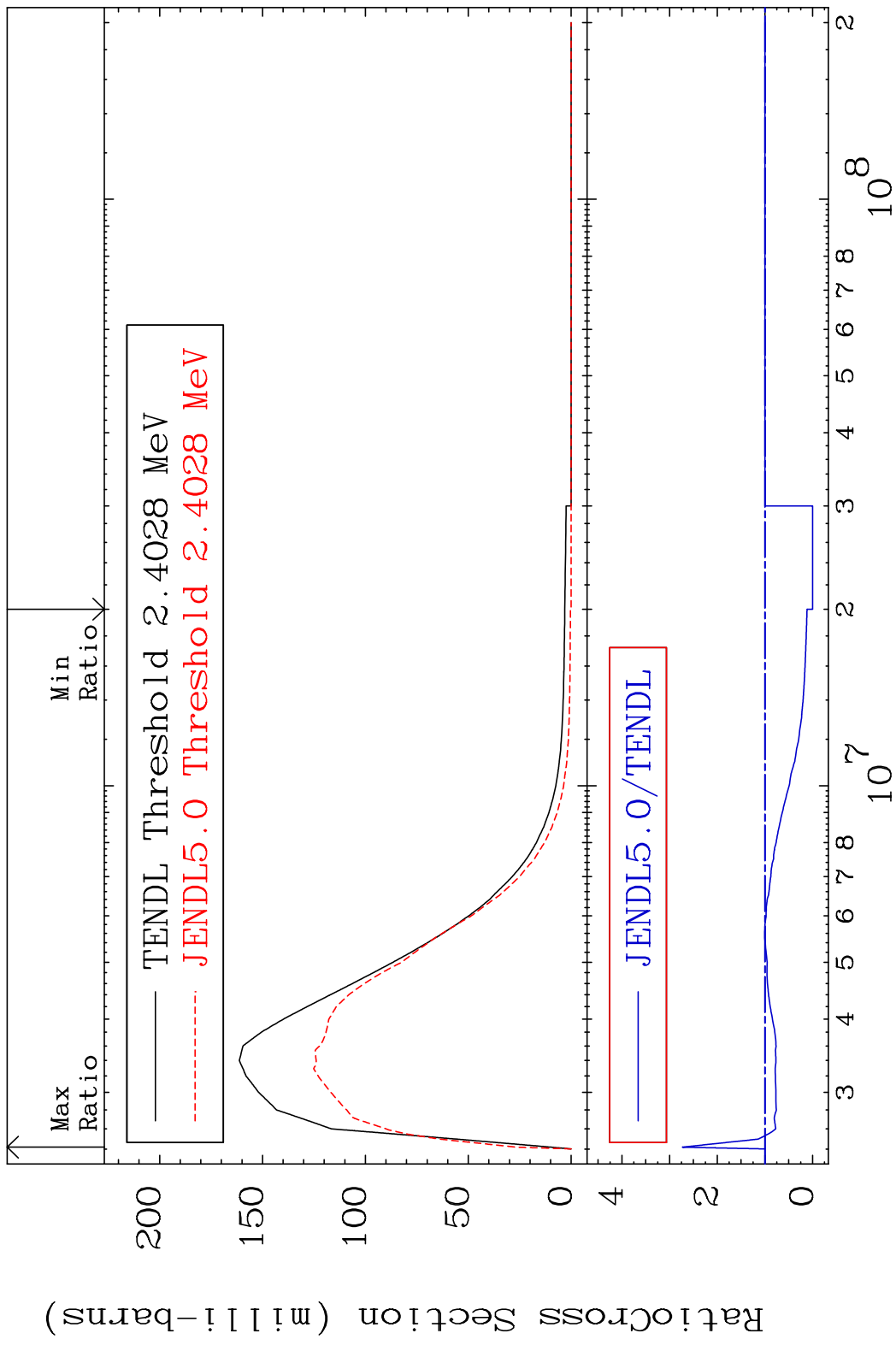
MAT 1834 MT= 53 (n, n') Level 18-Ar-39  
 Cross Section -100.0 To 10.69 %



15 Incident Energy (eV) 18-Ar-39

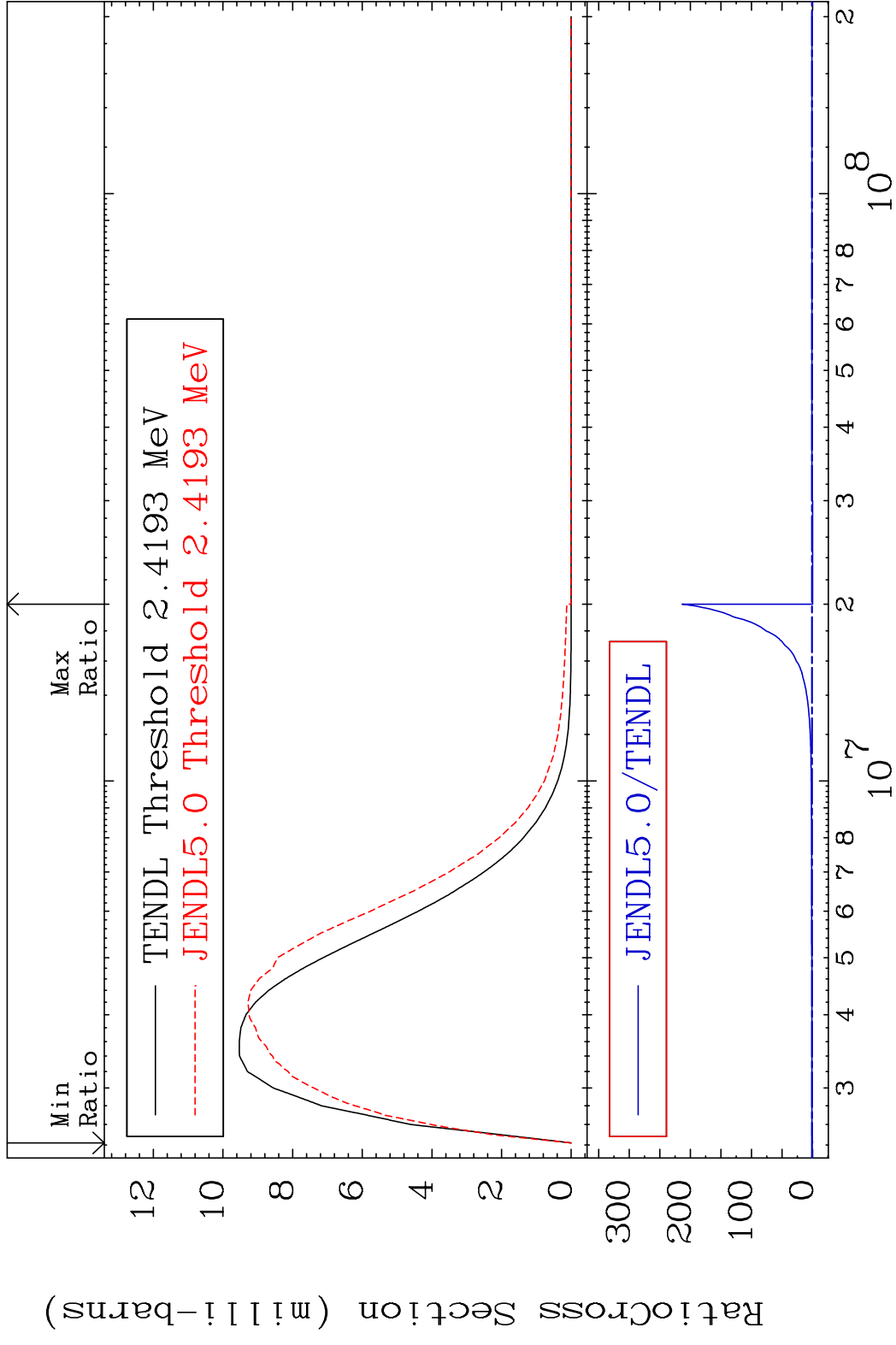


MAT 1834 MT= 54 (n,n') Level 18-Ar-39  
 Cross Section -100.0 To 173.2 %



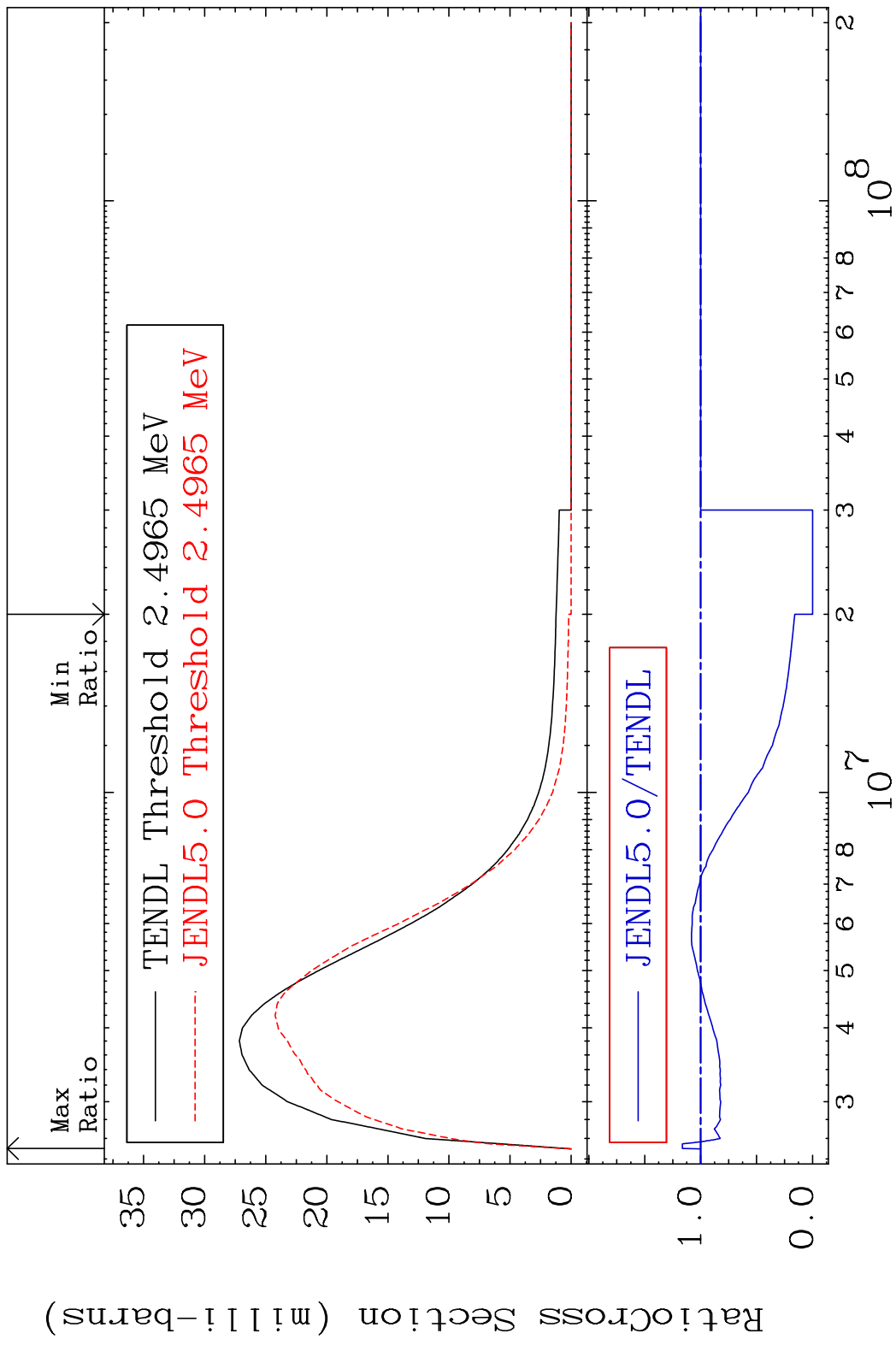
16 18-Ar-39

MAT 1834 MT= 55 (n,n') Level 18-Ar-39  
 Cross Section -100.0 To 9999. %



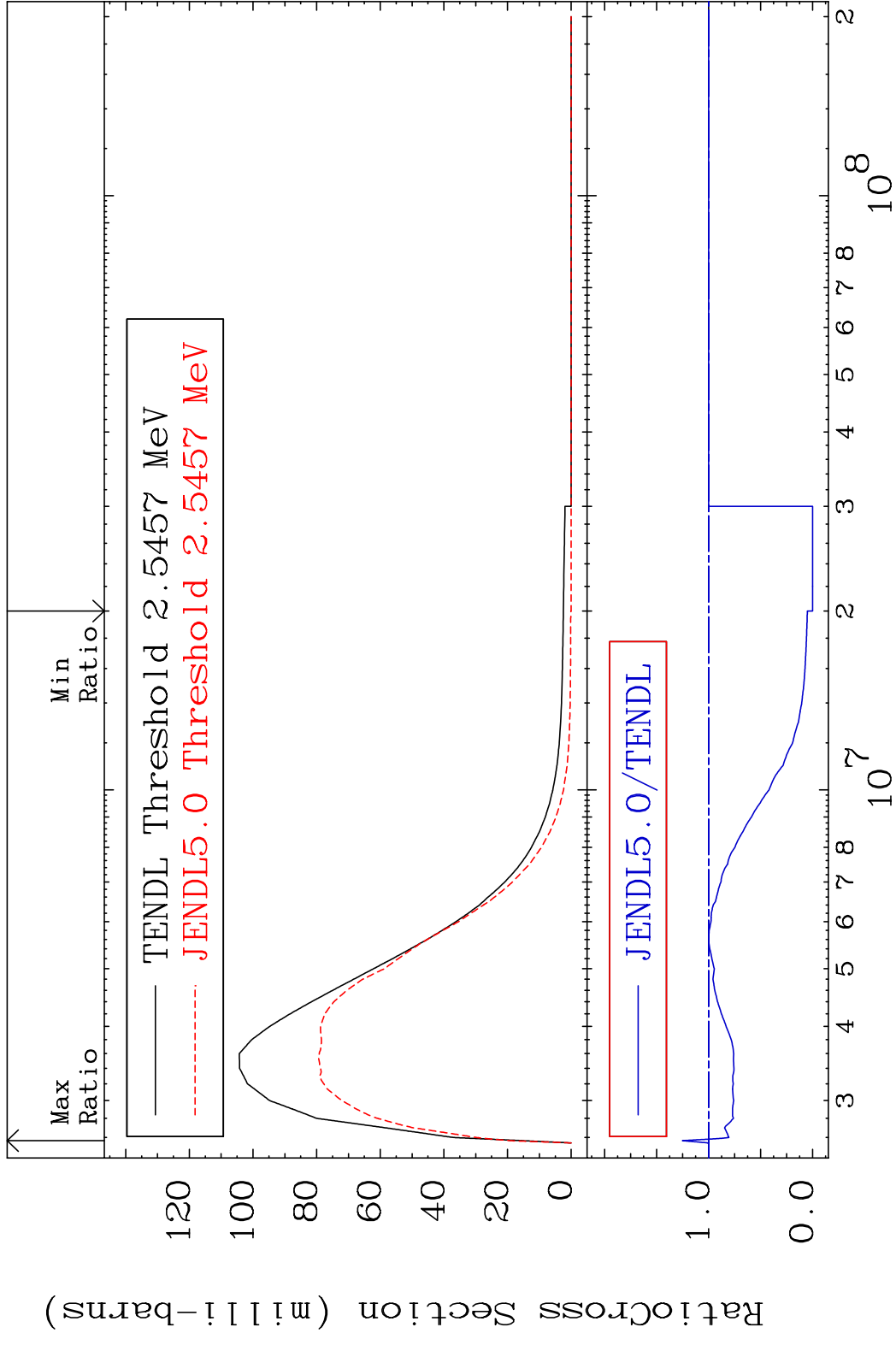
17 18-Ar-39

MAT 1834 MT= 56 (n,n') Level 18-Ar-39  
 Cross Section -100.0 To 16.37 %

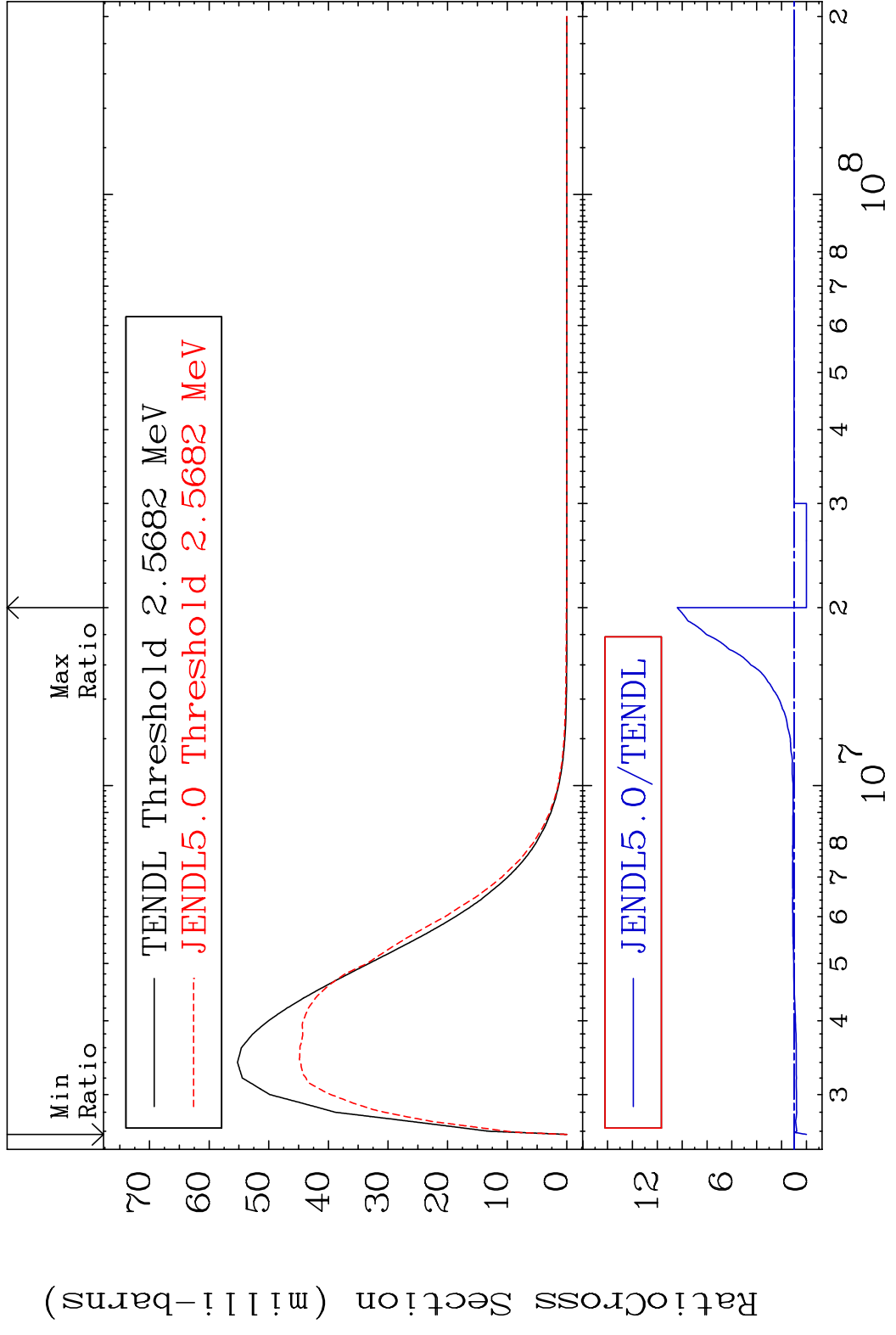


18 Incident Energy (eV) 18-Ar-39

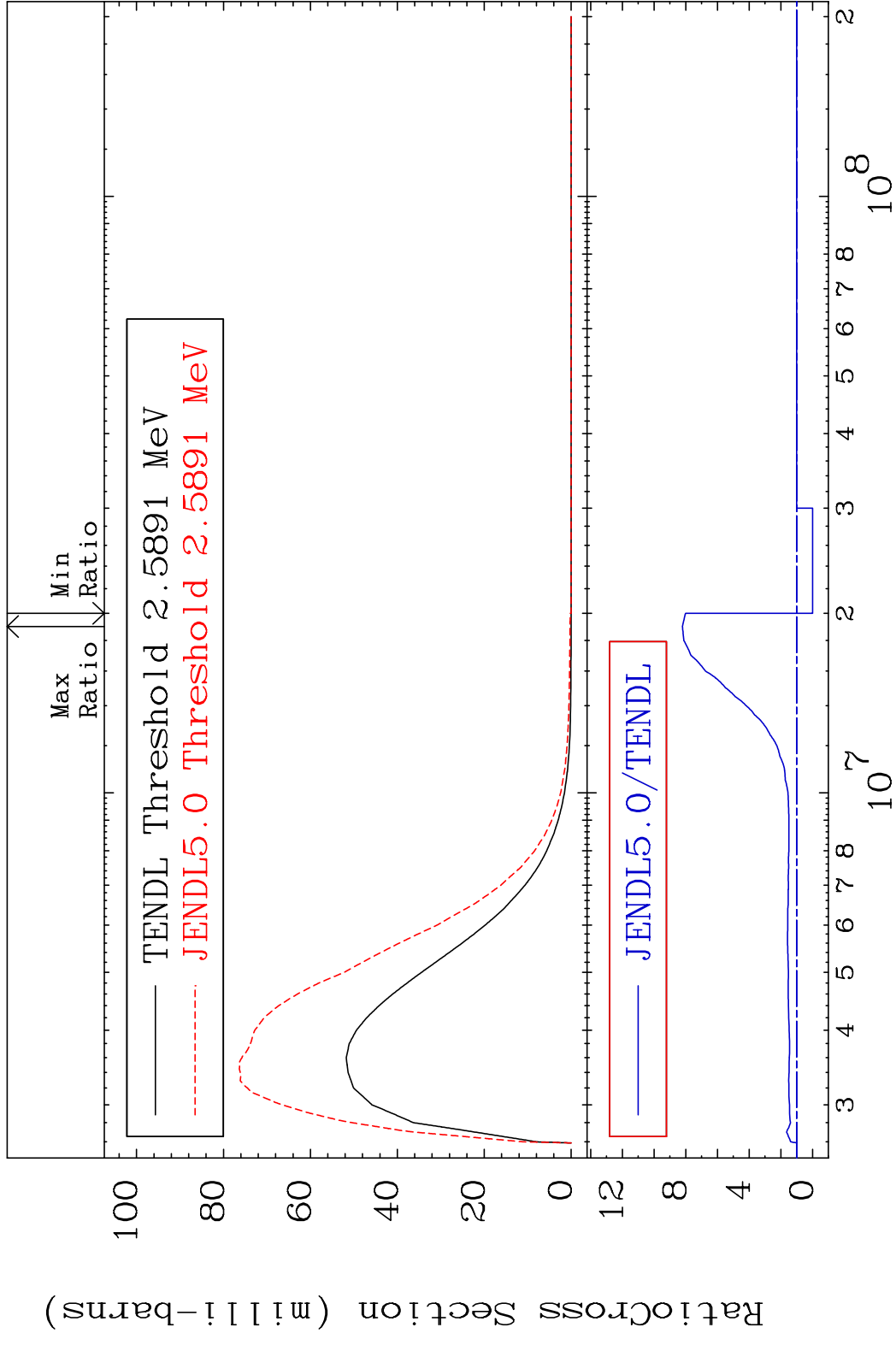
MAT 1834 MT= 57 (n,n') Level 18-Ar-39  
 Cross Section -100.0 To 25.27 %



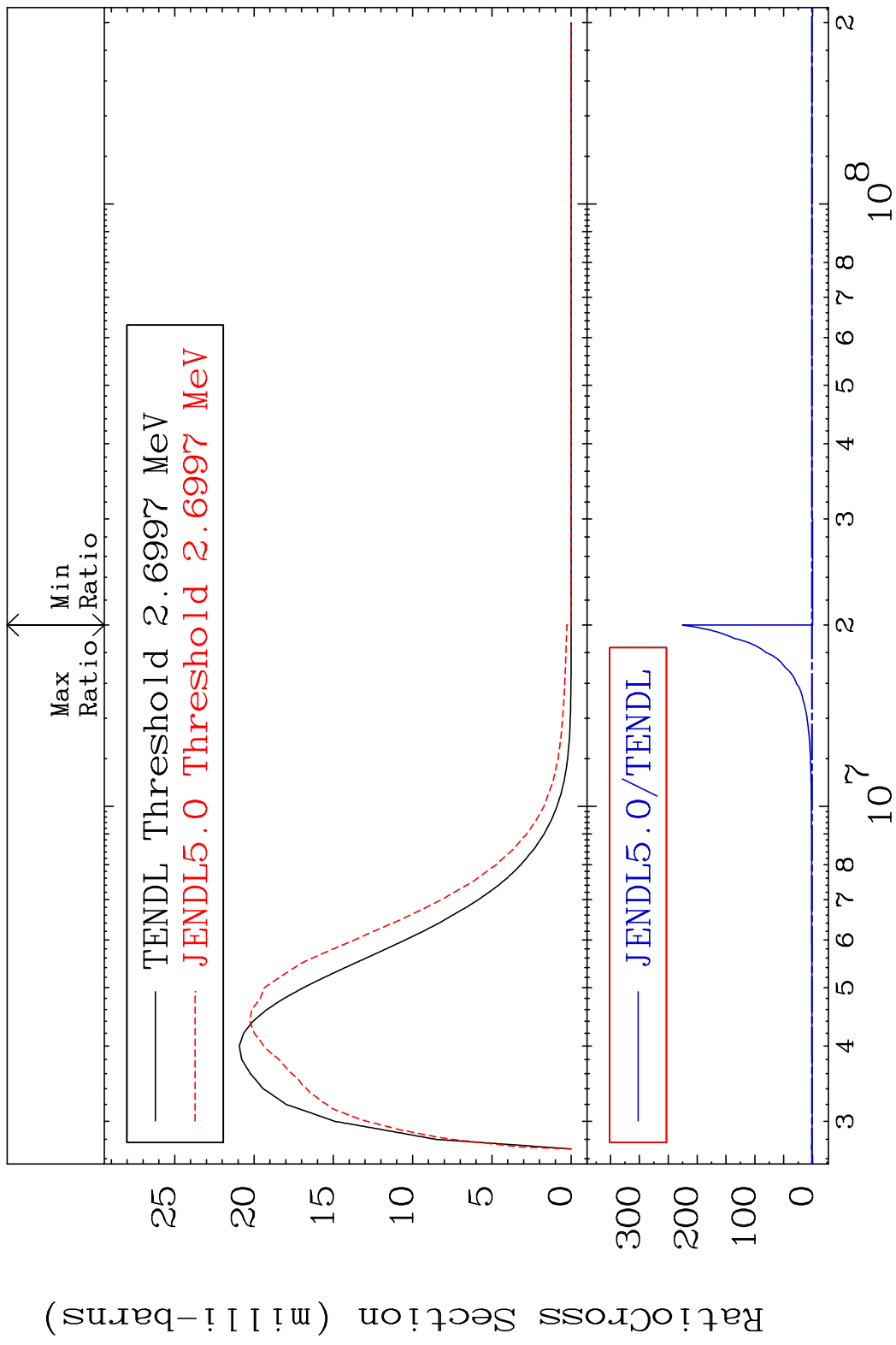
MAT 1834 MT= 58 (n, n') Level 18-Ar-39  
 Cross Section -100.0 To 939.9 %



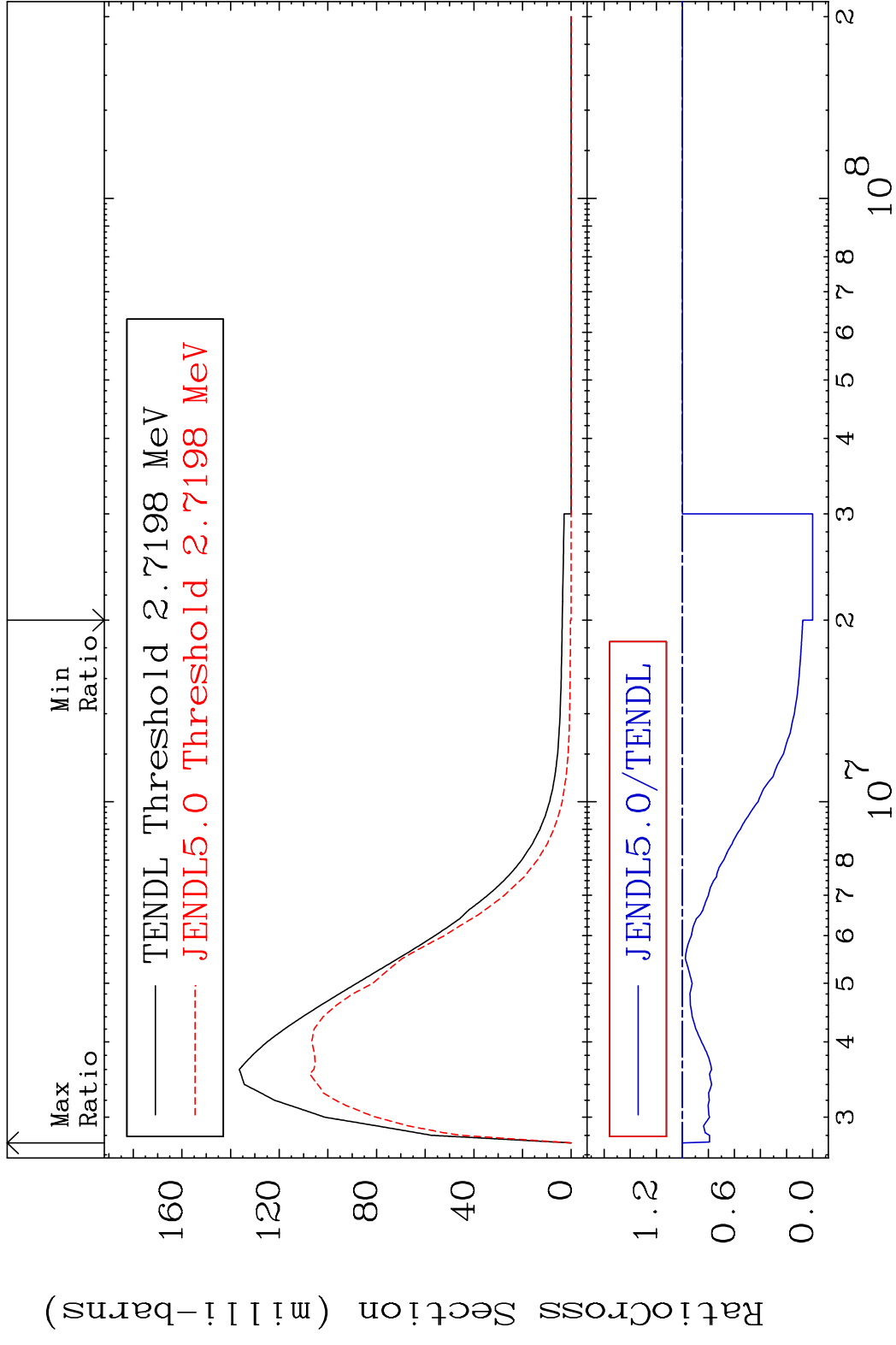
MAT 1834 MT= 59 (n, n') Level 18-Ar-39  
 Cross Section -100.0 To 721.3 %



MAT 1834 MT= 60 (n, n') Level 18-Ar-39  
 Cross Section -100.0 To 9999. %

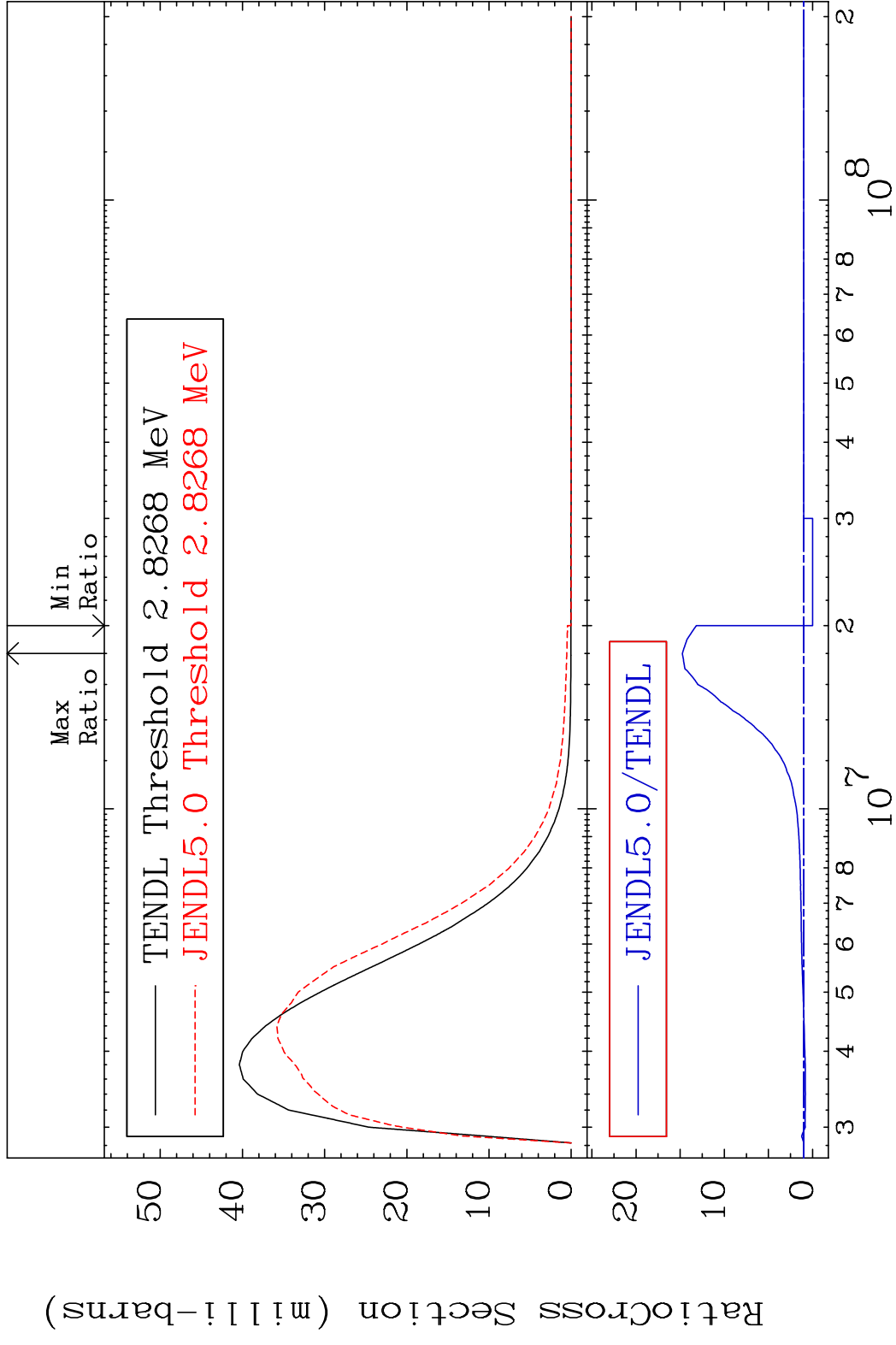


MAT 1834 MT= 61 (n, n') Level 18-Ar-39  
 Cross Section -100.0 To 0.000 %

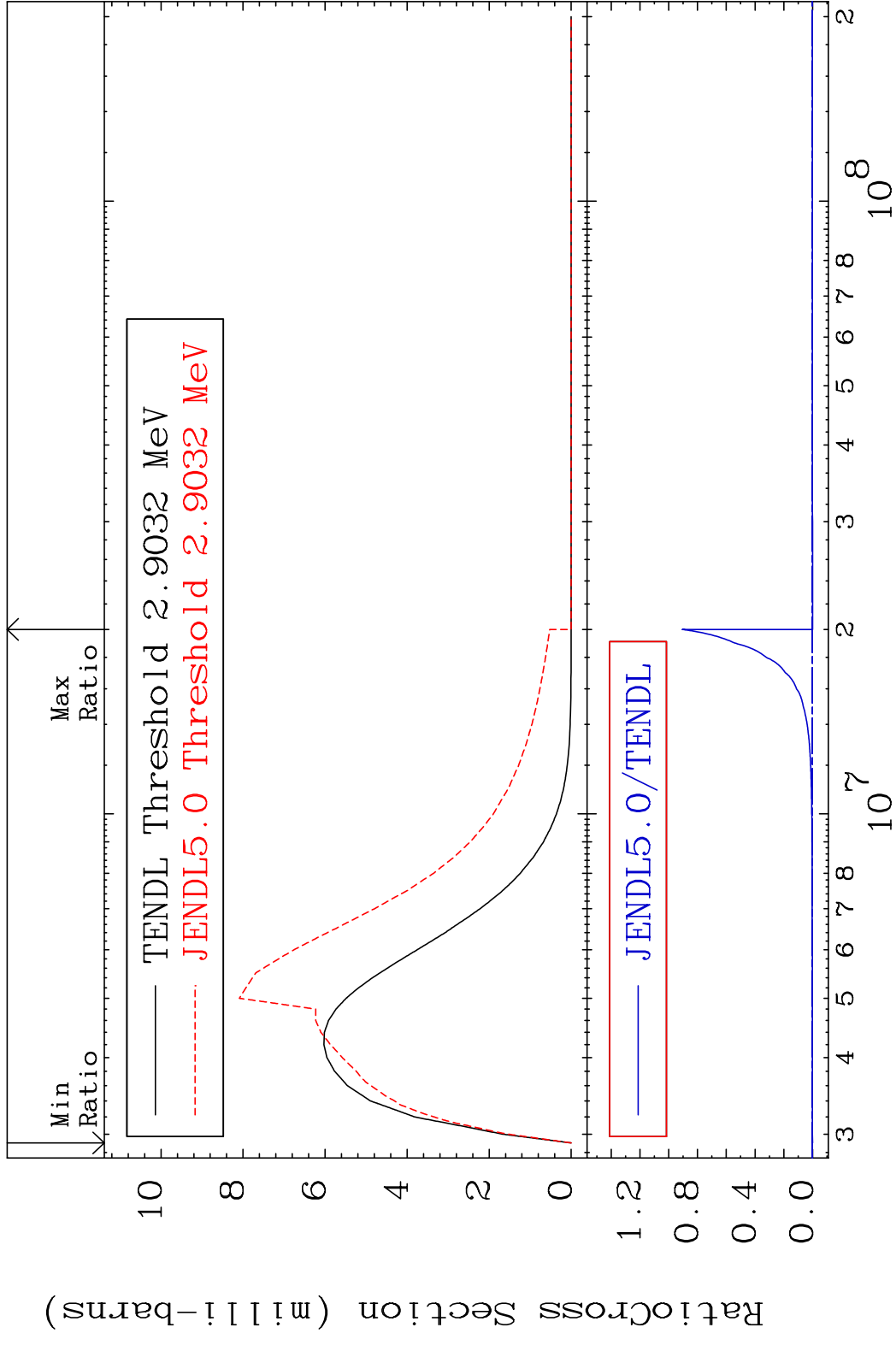




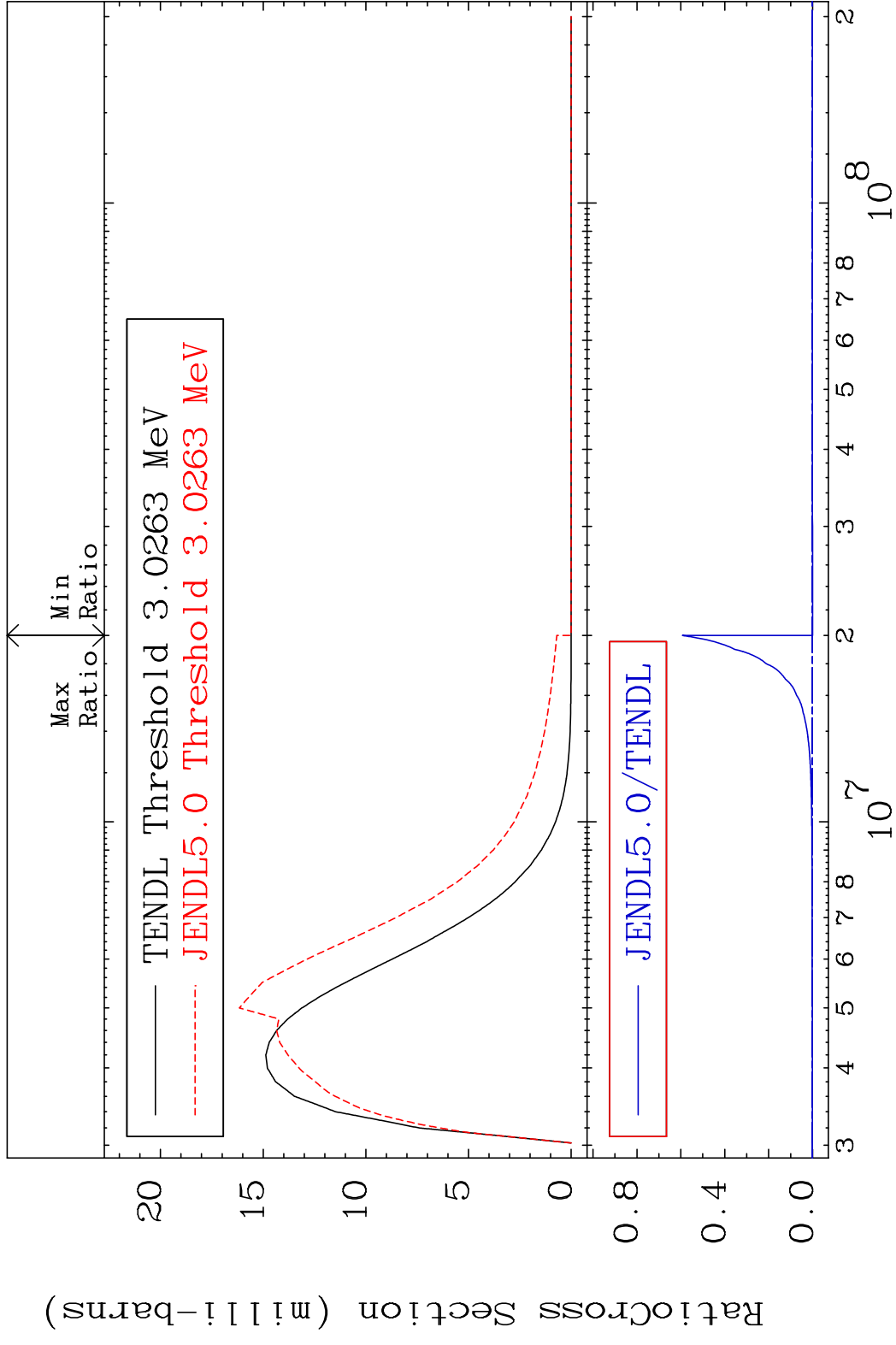
MAT 1834 MT= 62 (n, n') Level 18-Ar-39  
 Cross Section -100.0 To 1375. %



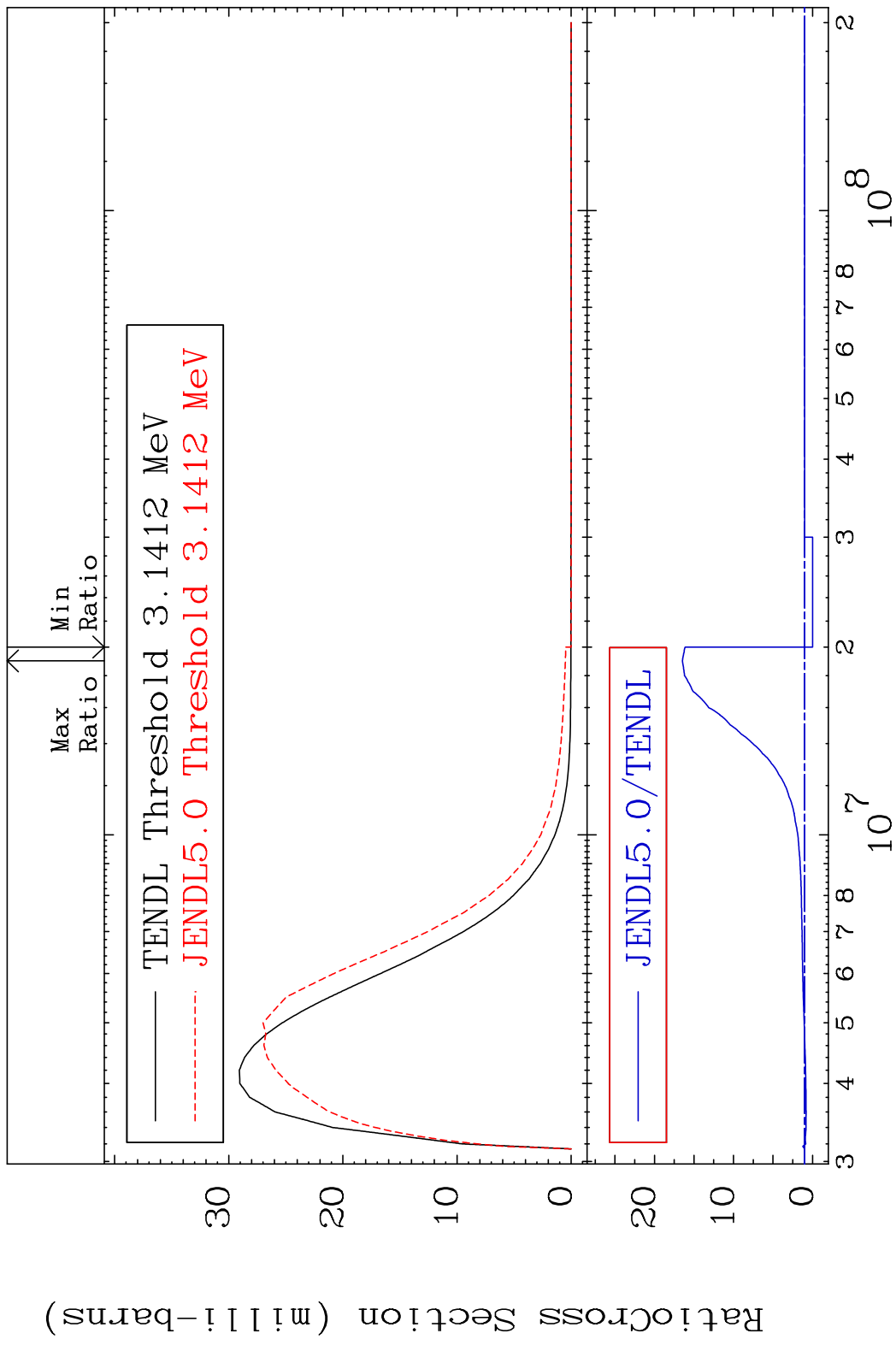
MAT 1834 MT= 63 (n,n') Level 18-Ar-39  
 Cross Section -100.0 To 9999. %



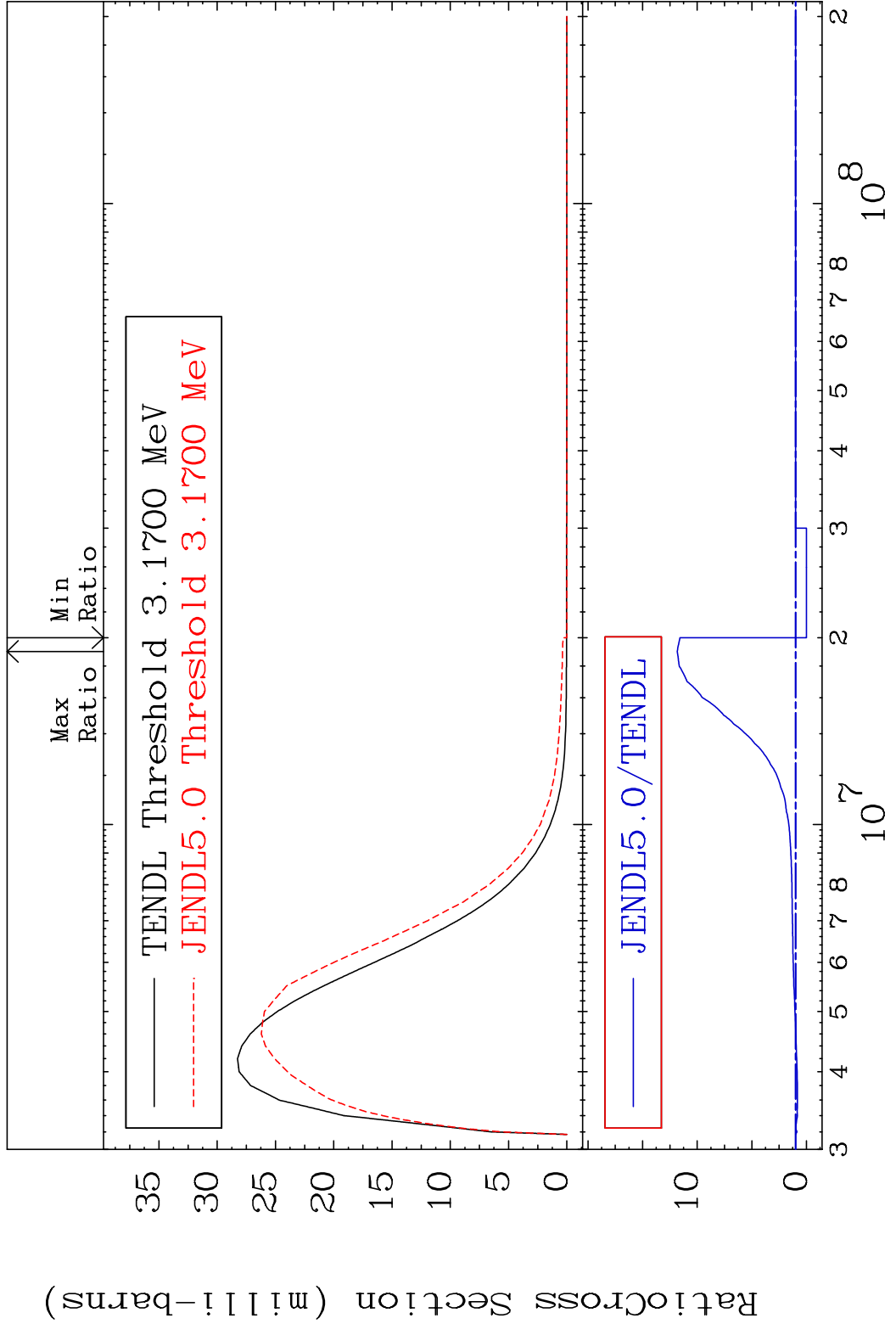
MAT 1834 MT= 64 (n, n') Level 18-Ar-39  
 Cross Section -100.0 To 9999. %



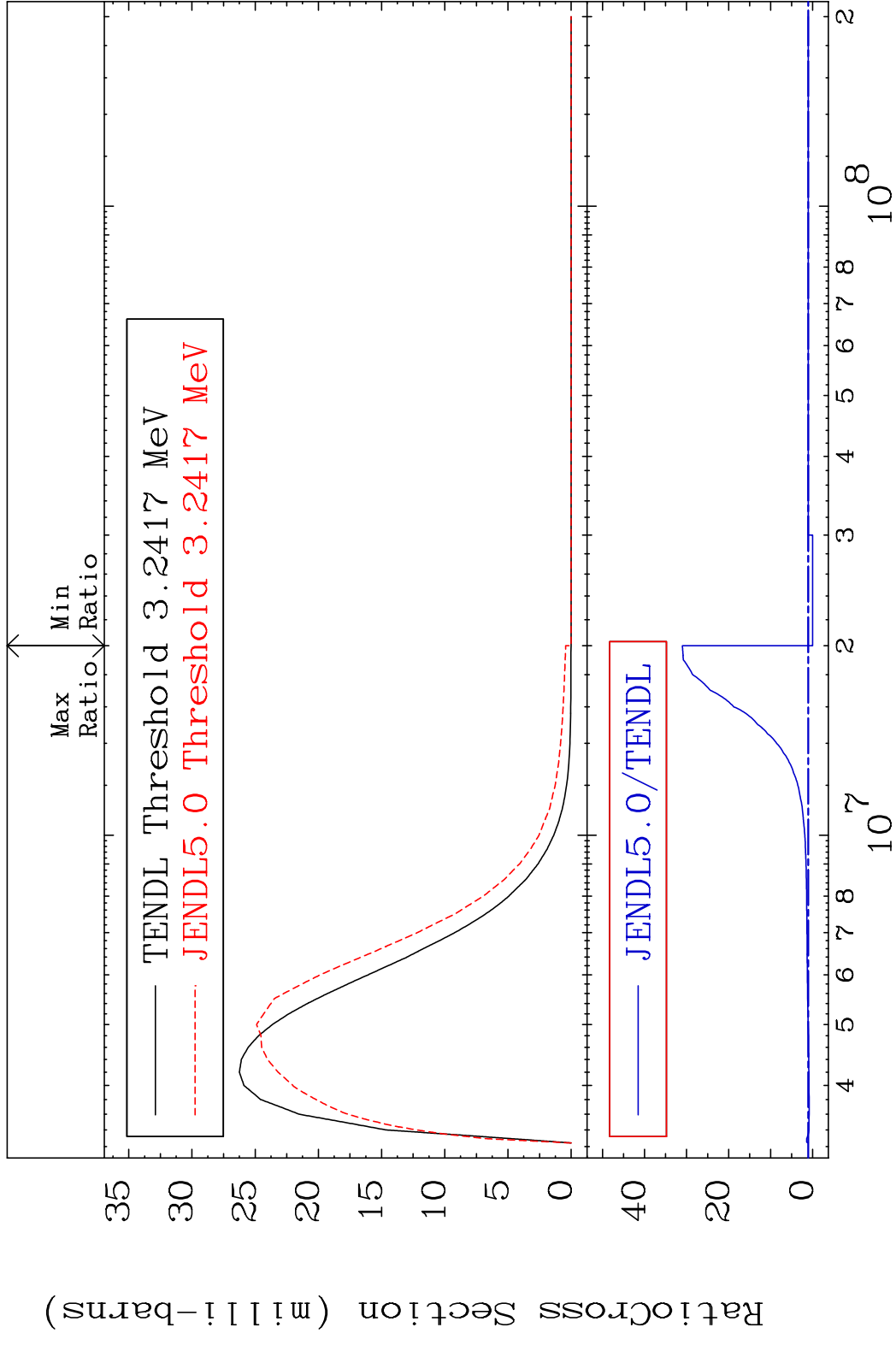
MAT 1834 MT= 65 (n,n') Level 18-Ar-39  
 Cross Section -100.0 To 1547. %



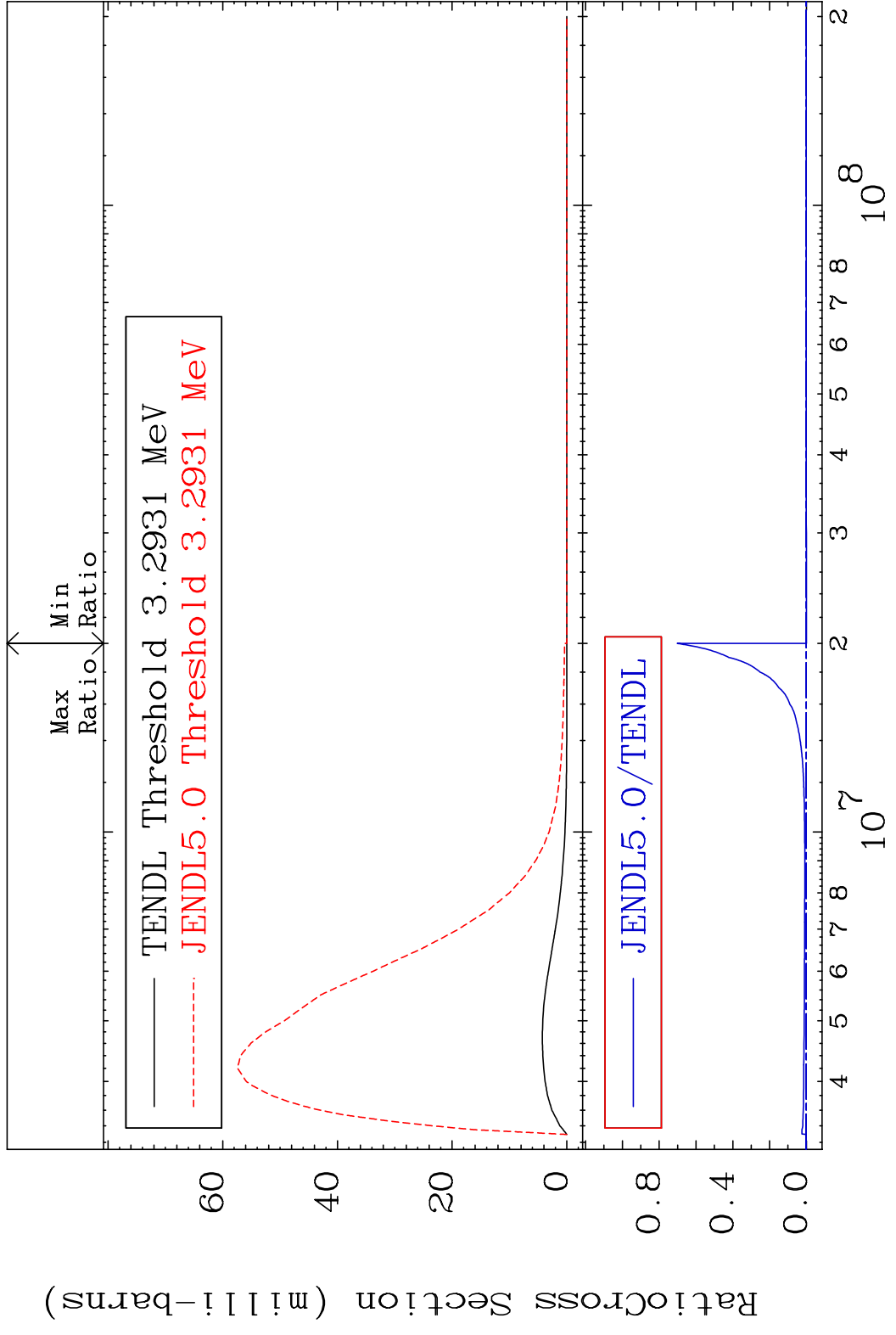
MAT 1834 MT= 66 (n, n') Level 18-Ar-39  
 Cross Section -100.0 To 1083. %



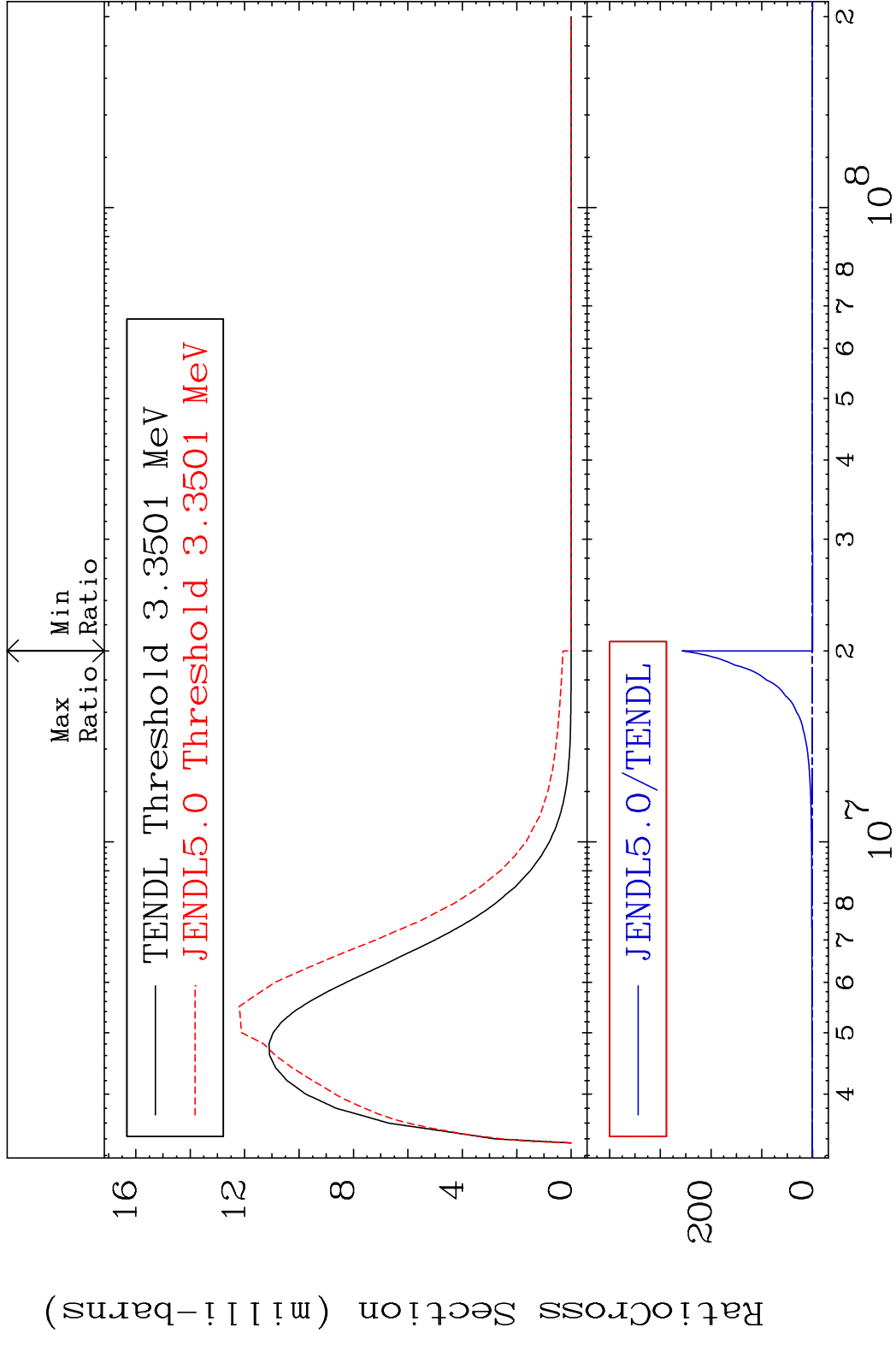
MAT 1834 MT= 67 (n, n') Level 18-Ar-39  
 Cross Section -100.0 To 3001. %



MAT 1834 MT= 68 (n, n') Level 18-Ar-39  
 Cross Section -100.0 To 9999. %

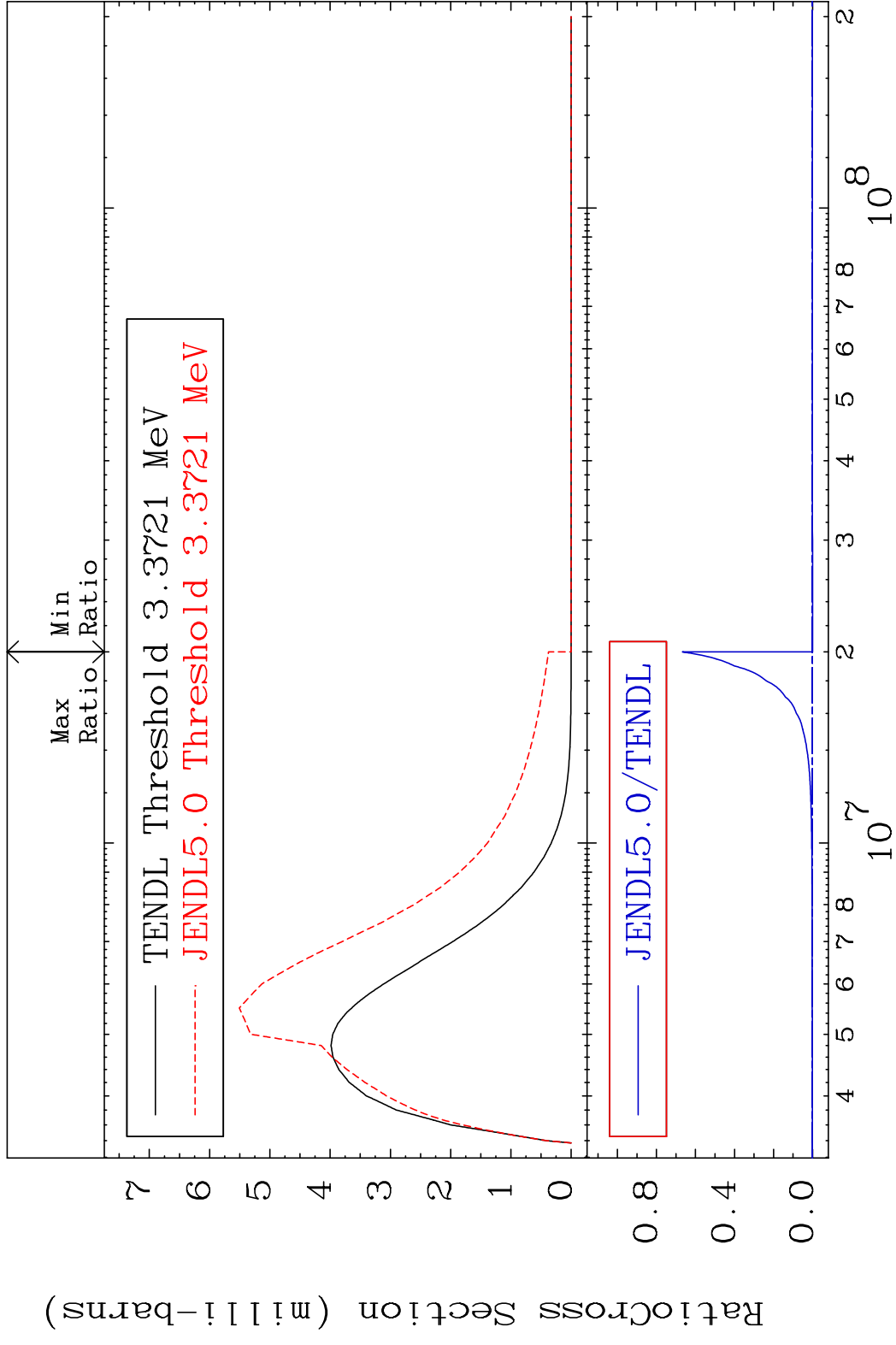


MAT 1834 MT= 69 (n, n') Level 18-Ar-39  
 Cross Section -100.0 To 9999. %

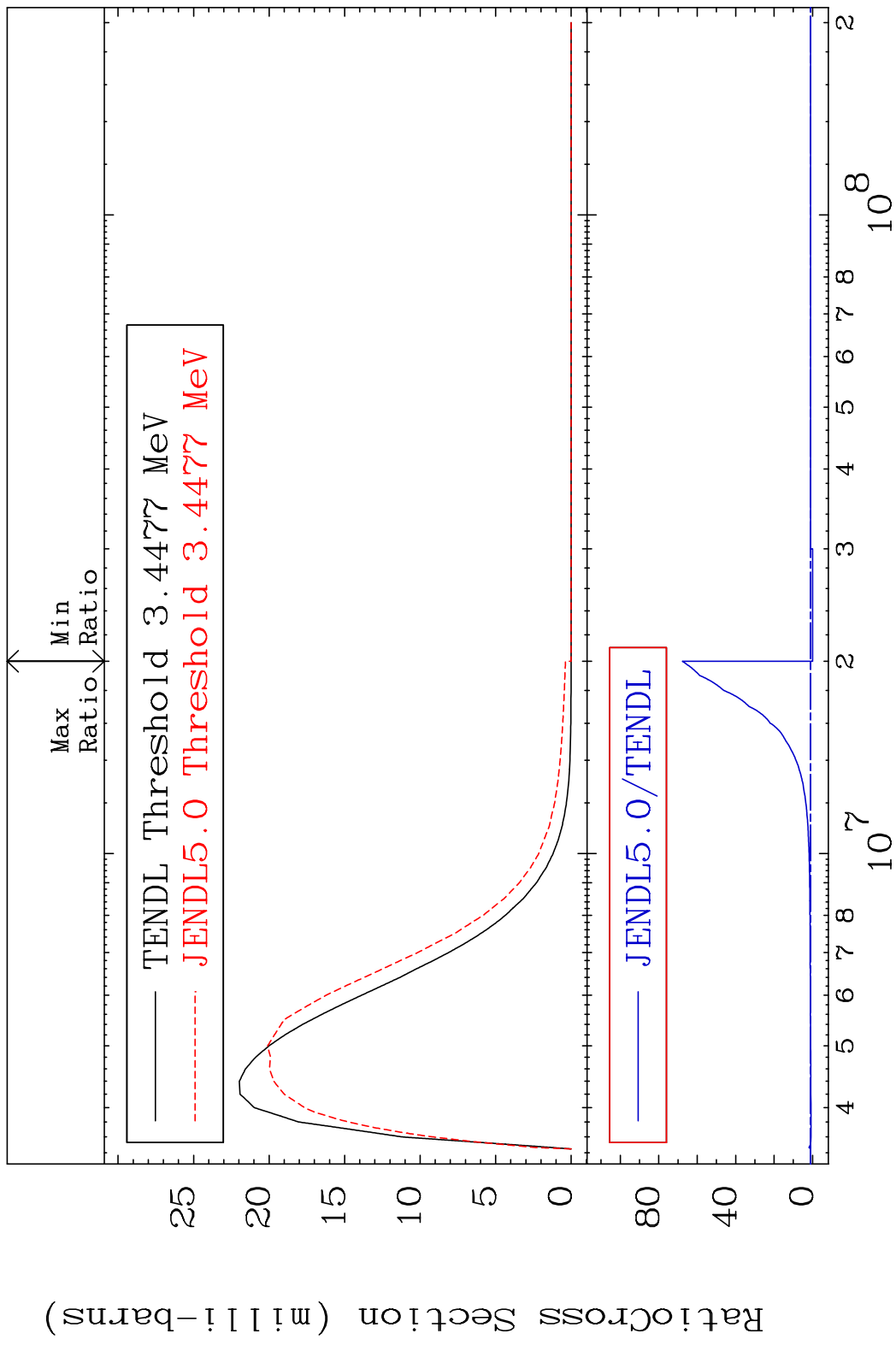




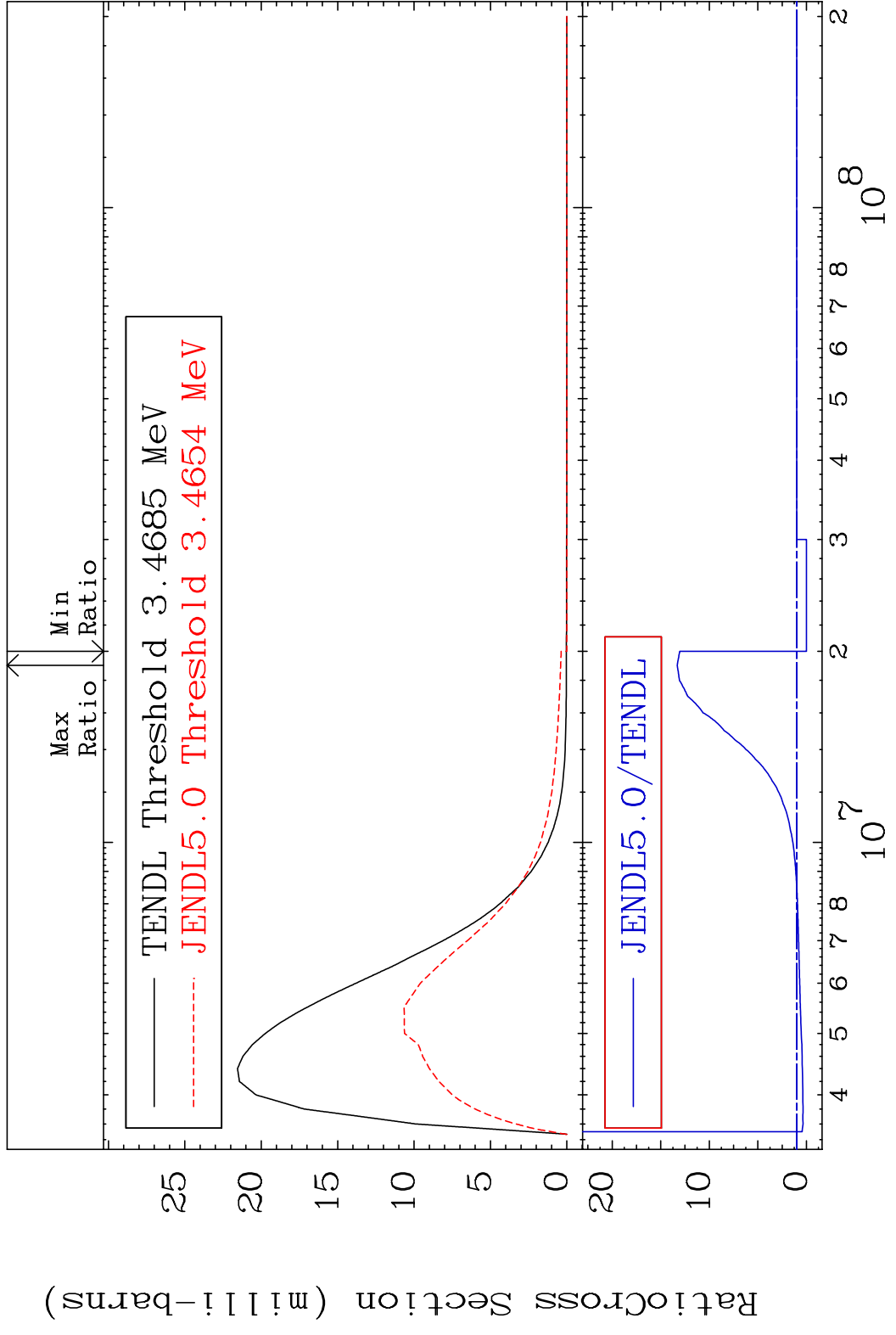
MAT 1834 MT= 70 (n,n') Level 18-Ar-39  
 Cross Section -100.0 To 9999. %



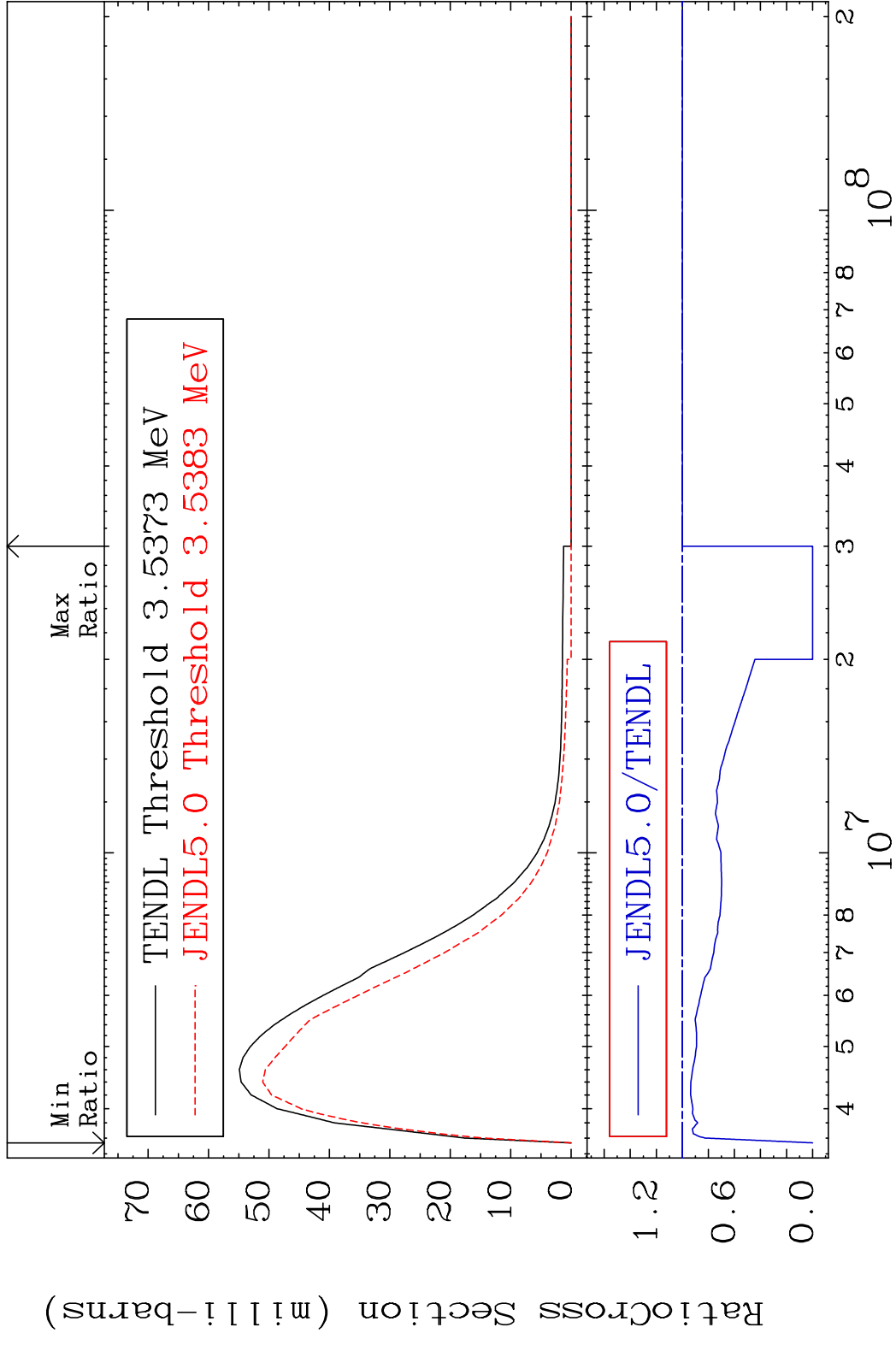
MAT 1834 MT= 71 (n,n') Level 18-Ar-39  
 Cross Section -100.0 To 6672. %



MAT 1834 MT= 72 (n,n') Level 18-Ar-39  
 Cross Section -100.0 To 1231. %



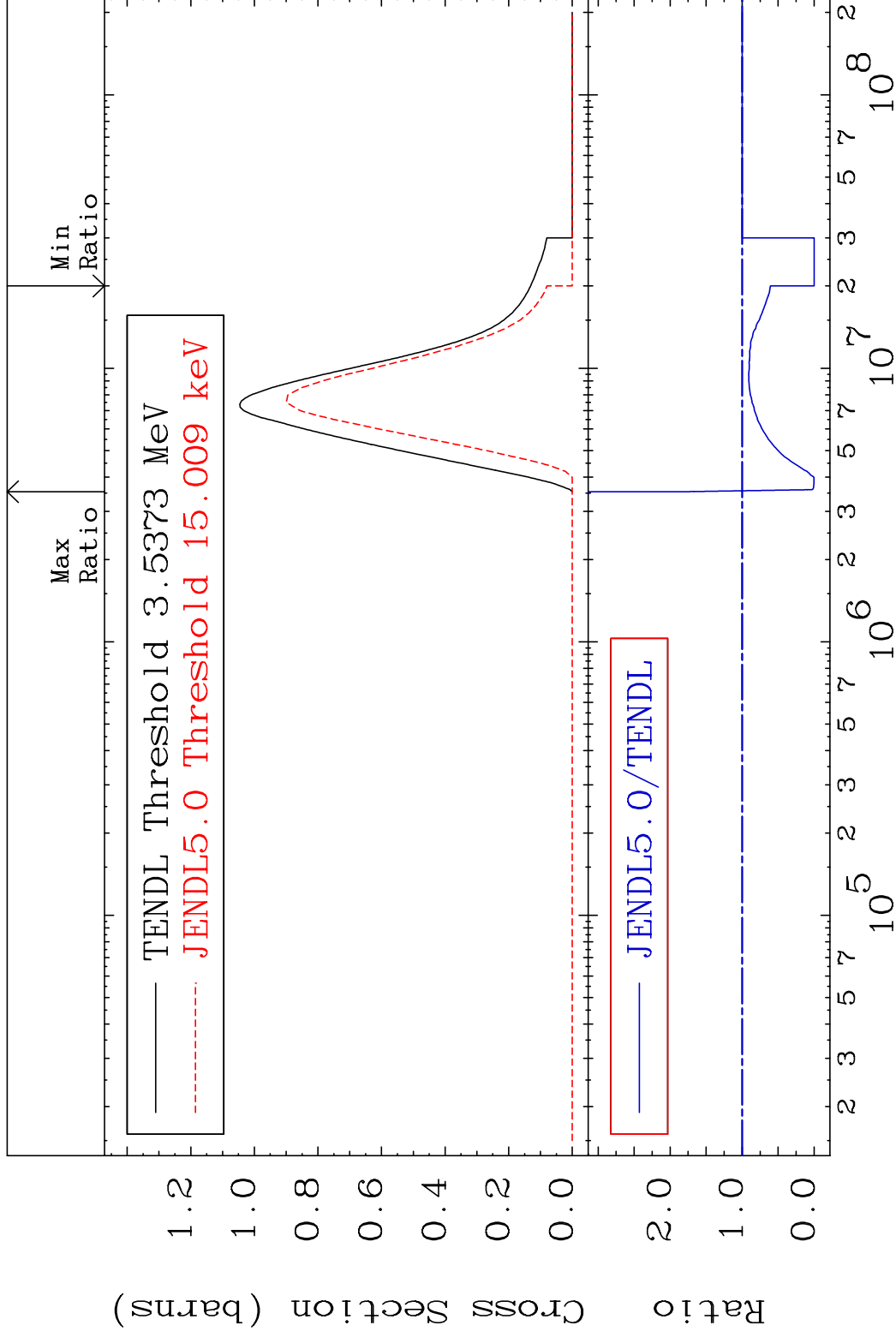
MAT 1834 MT= 73 (n, n') Level 18-Ar-39  
 Cross Section -100.0 To 0.000 %



MAT 1834

(n, n') Continuum  
Cross Section -100.0 To 81.23 %

18-Ar-39



36

Incident Energy (eV)

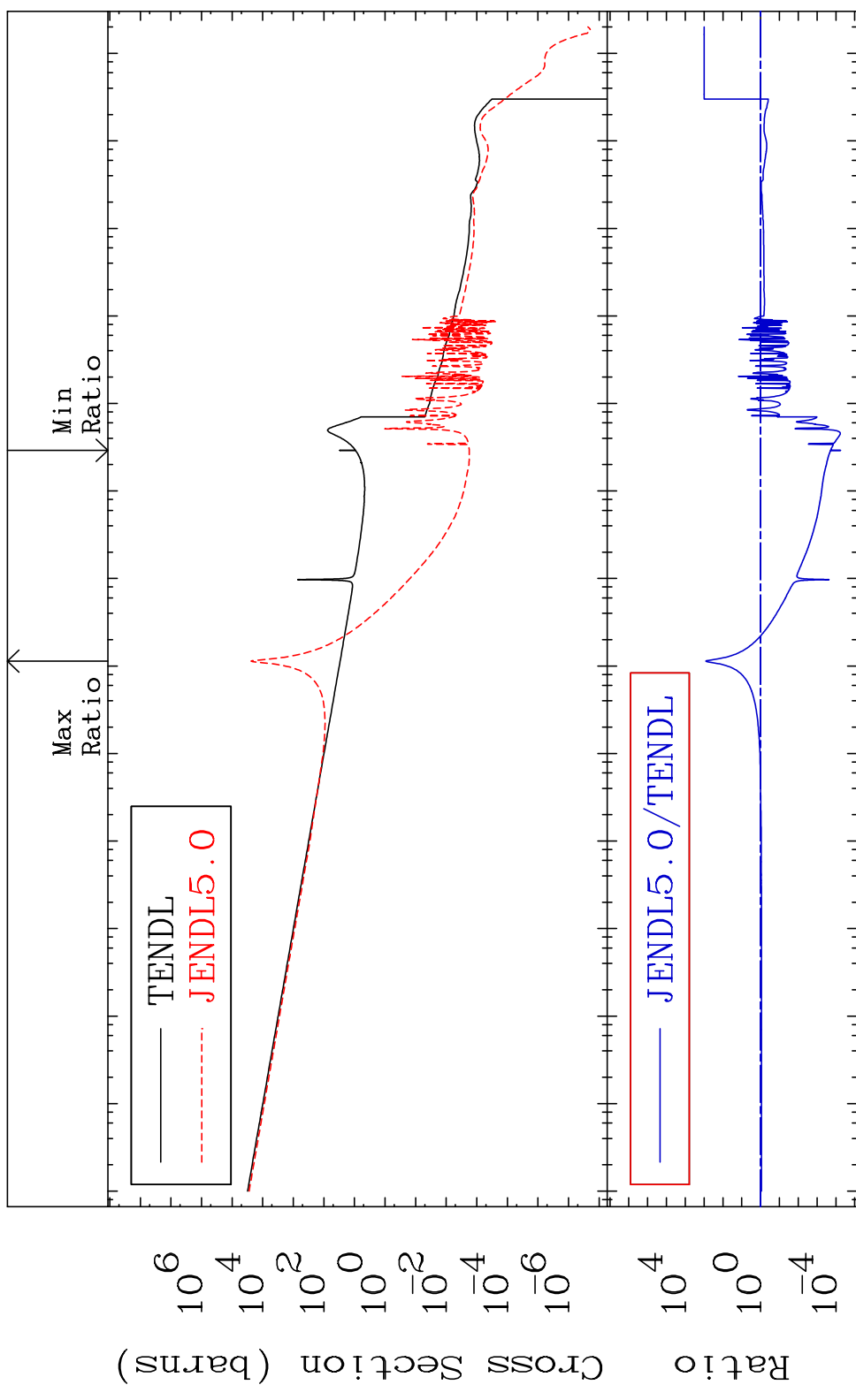
18-Ar-39

MAT 1834

(n,  $\gamma$ )

18-Ar-39

Cross Section -99.99 To 9999. %



37

Incident Energy (eV)

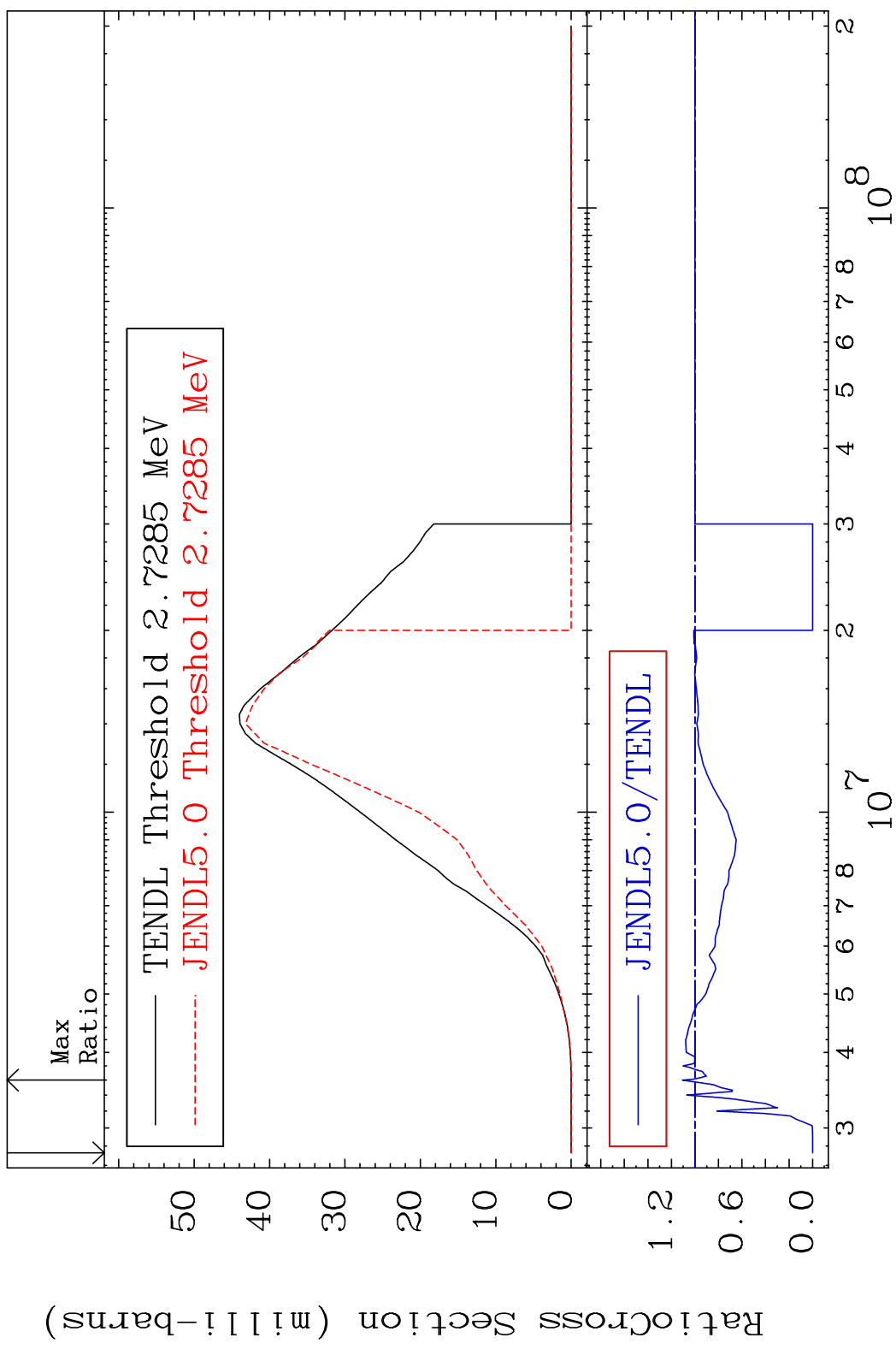
18-Ar-39

MAT 1834

(n, p)

18-Ar-39

Cross Section -100.0 To 10.68 %

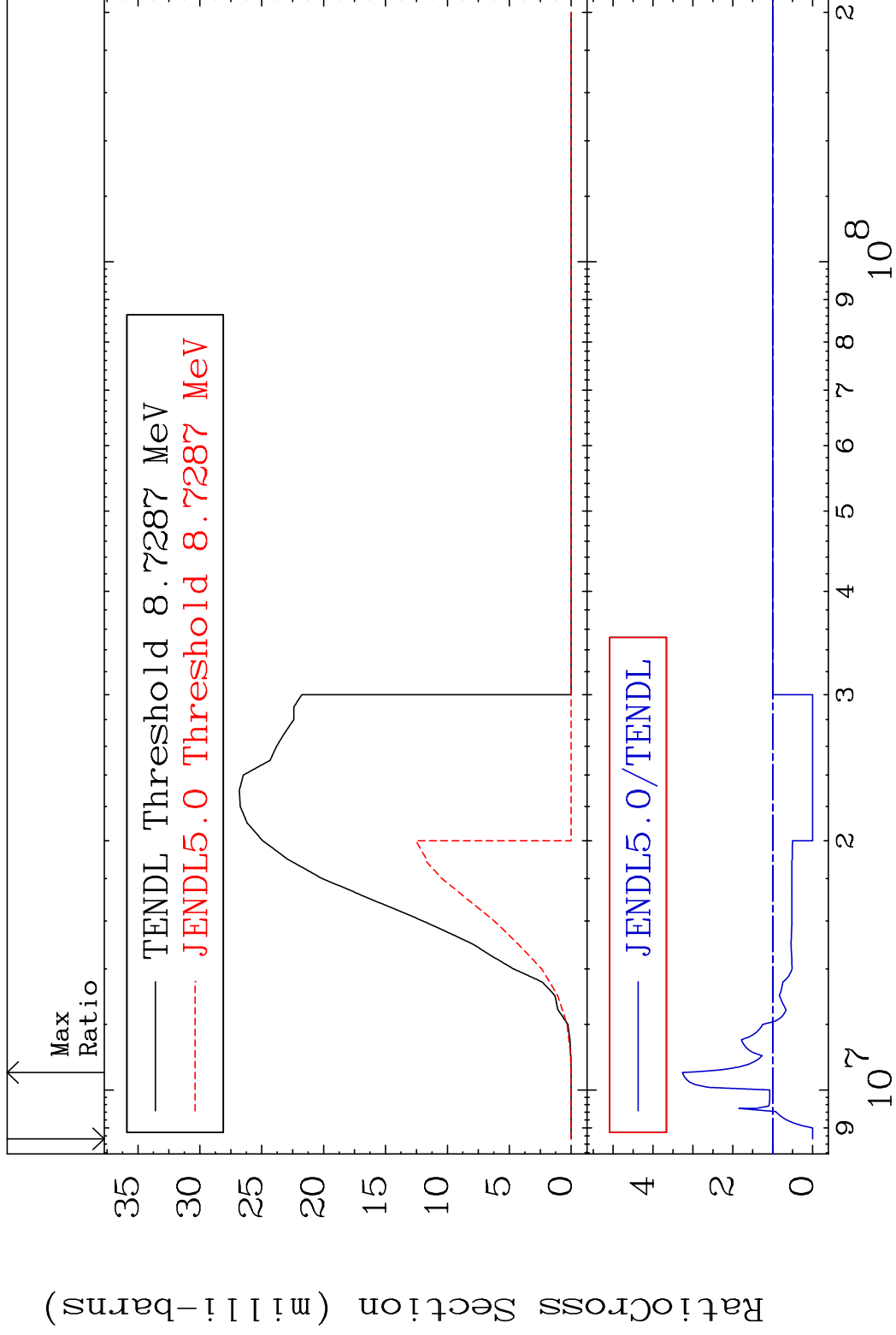


MAT 1834

(n,d)

18-Ar-39

Cross Section -100.0 To 226.5 %



39

Incident Energy (eV)

18-Ar-39

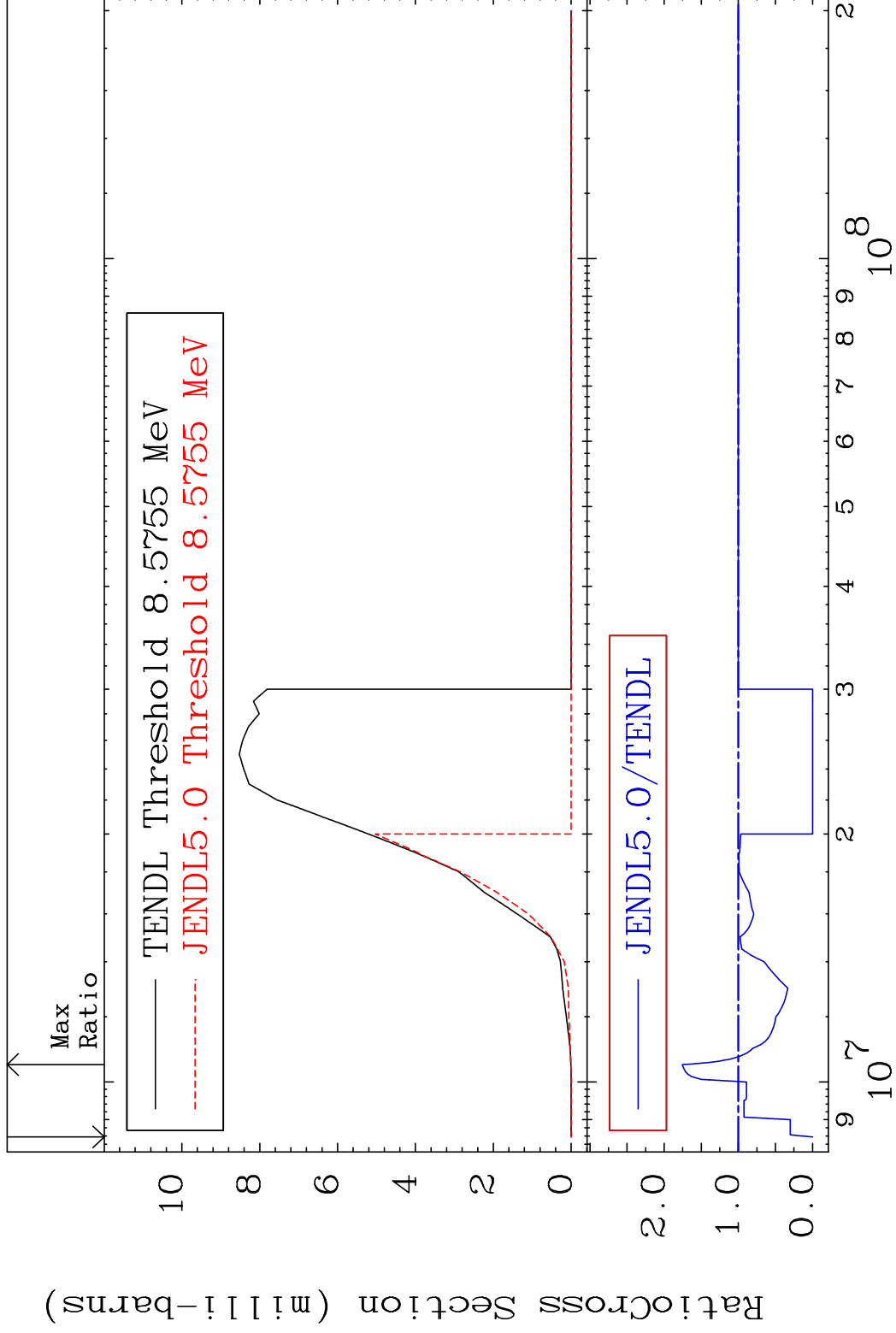


MAT 1834

(n, t)

18-Ar-39

Cross Section -100.0 To 75.47 %



40

Incident Energy (eV)

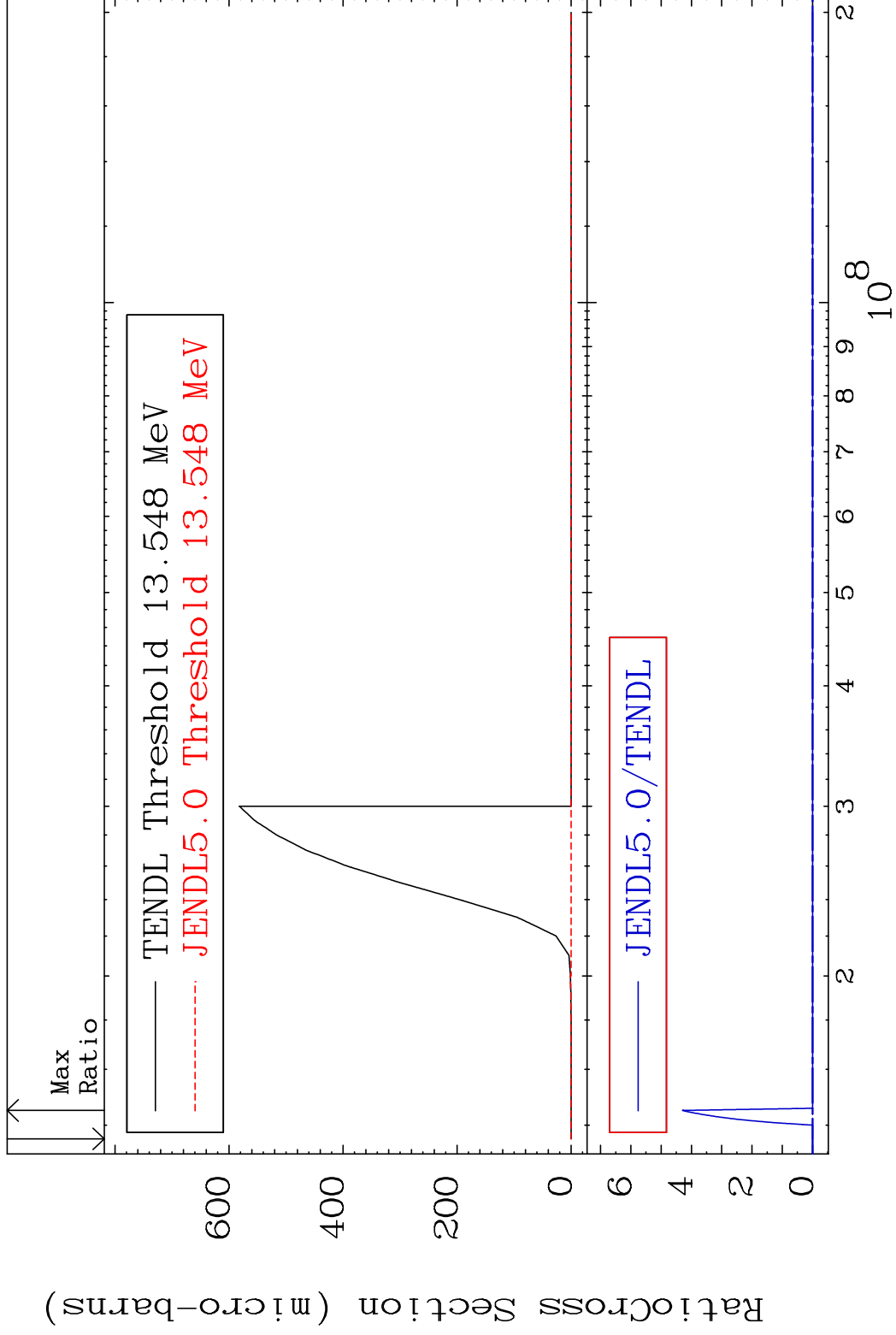
18-Ar-39

MAT 1834

(n, He-3)

18-Ar-39

Cross Section -100.0 To 9999. %



41

Incident Energy (eV)

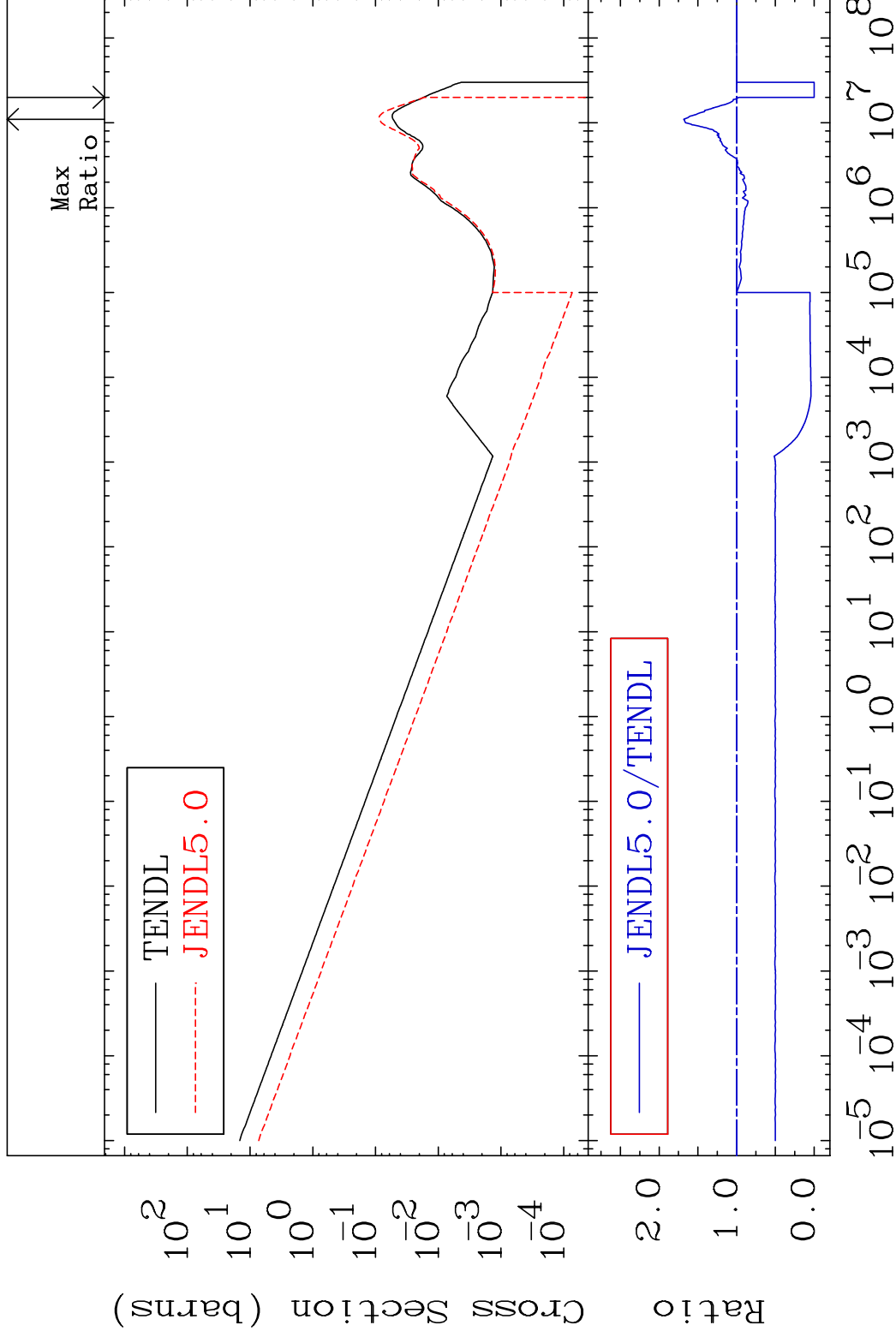
18-Ar-39

MAT 1834

(n,  $\alpha$ )

18-Ar-39

Cross Section -100.0 To 68.36 %



42

Incident Energy (eV)

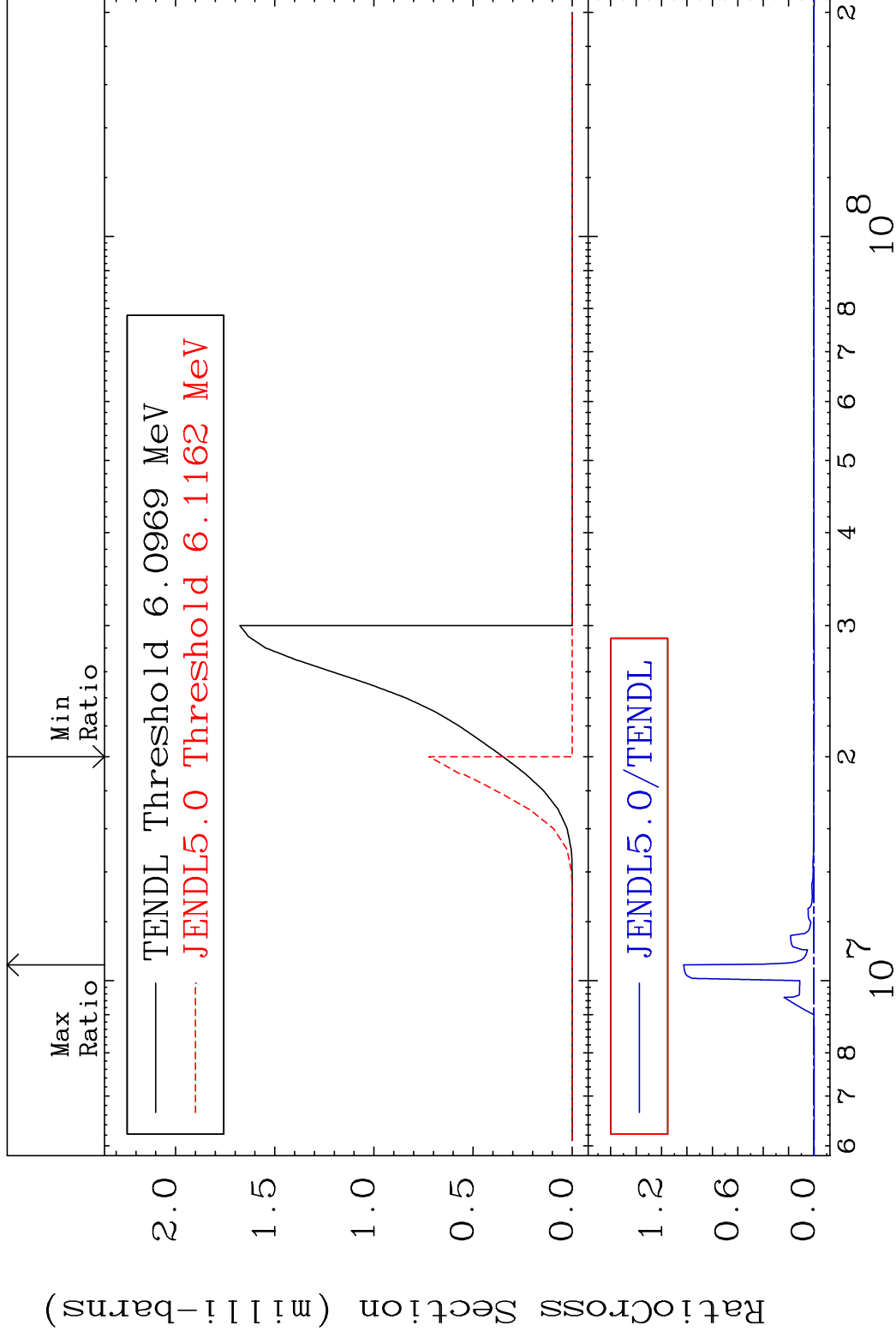
18-Ar-39

MAT 1834

(n,2α)

18-Ar-39

Cross Section -100.0 To 9999. %

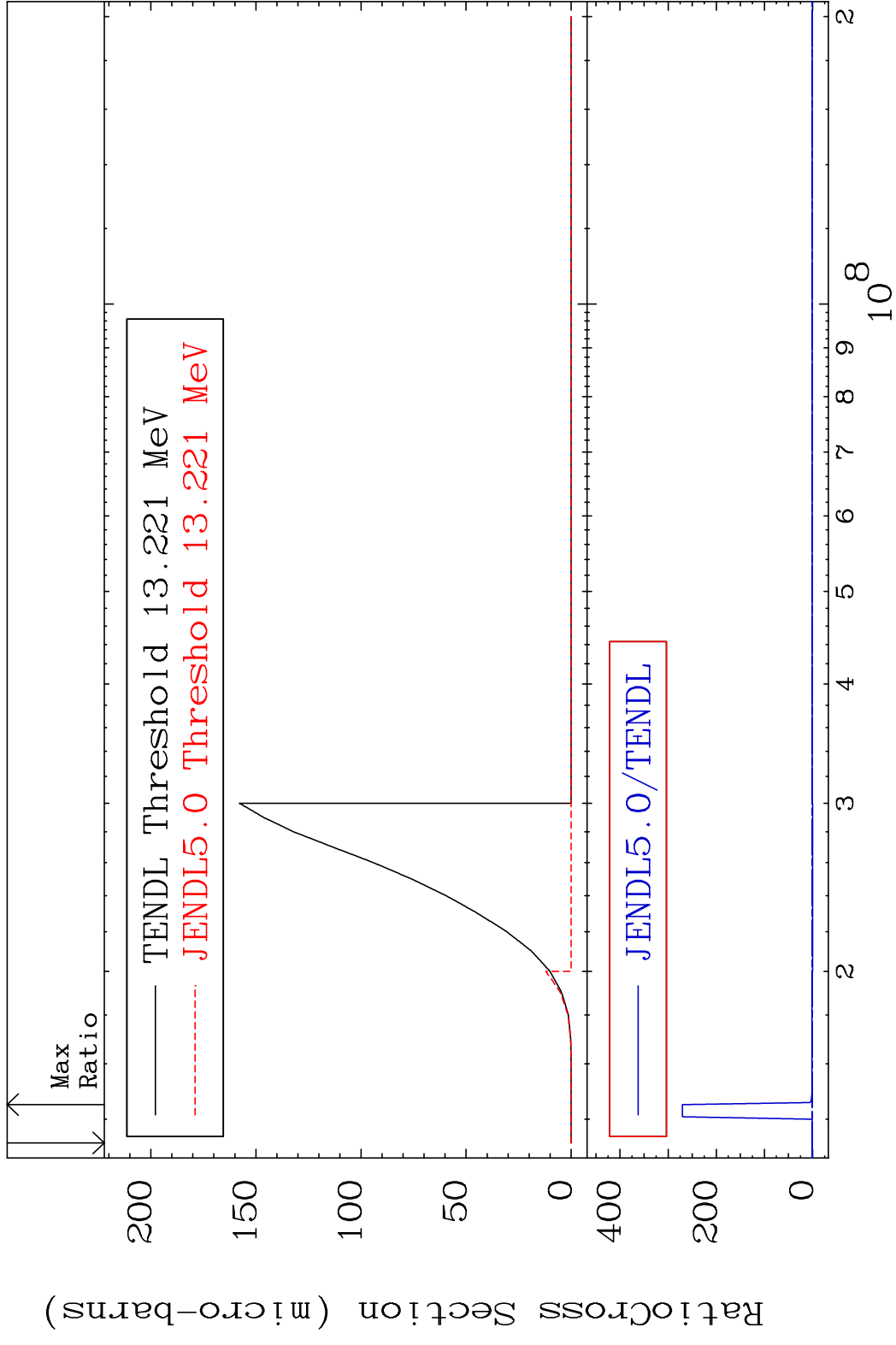


43

Incident Energy (eV)

18-Ar-39

MAT 1834 (n,2p) 18-Ar-39  
 Cross Section -100.0 To 9999. %

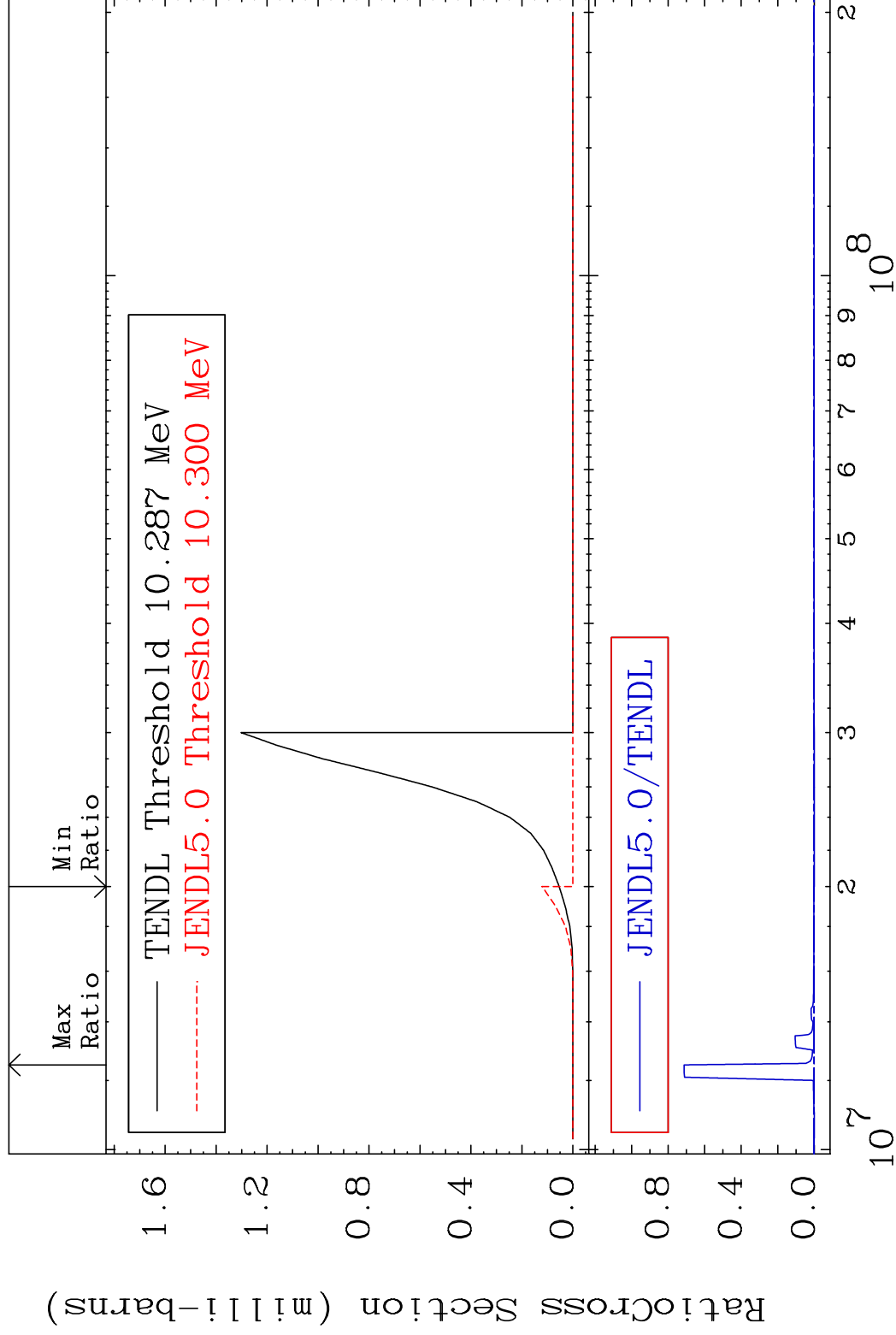


MAT 1834

(n,p)  $\alpha$

18-Ar-39

Cross Section -100.0 To 9999. %

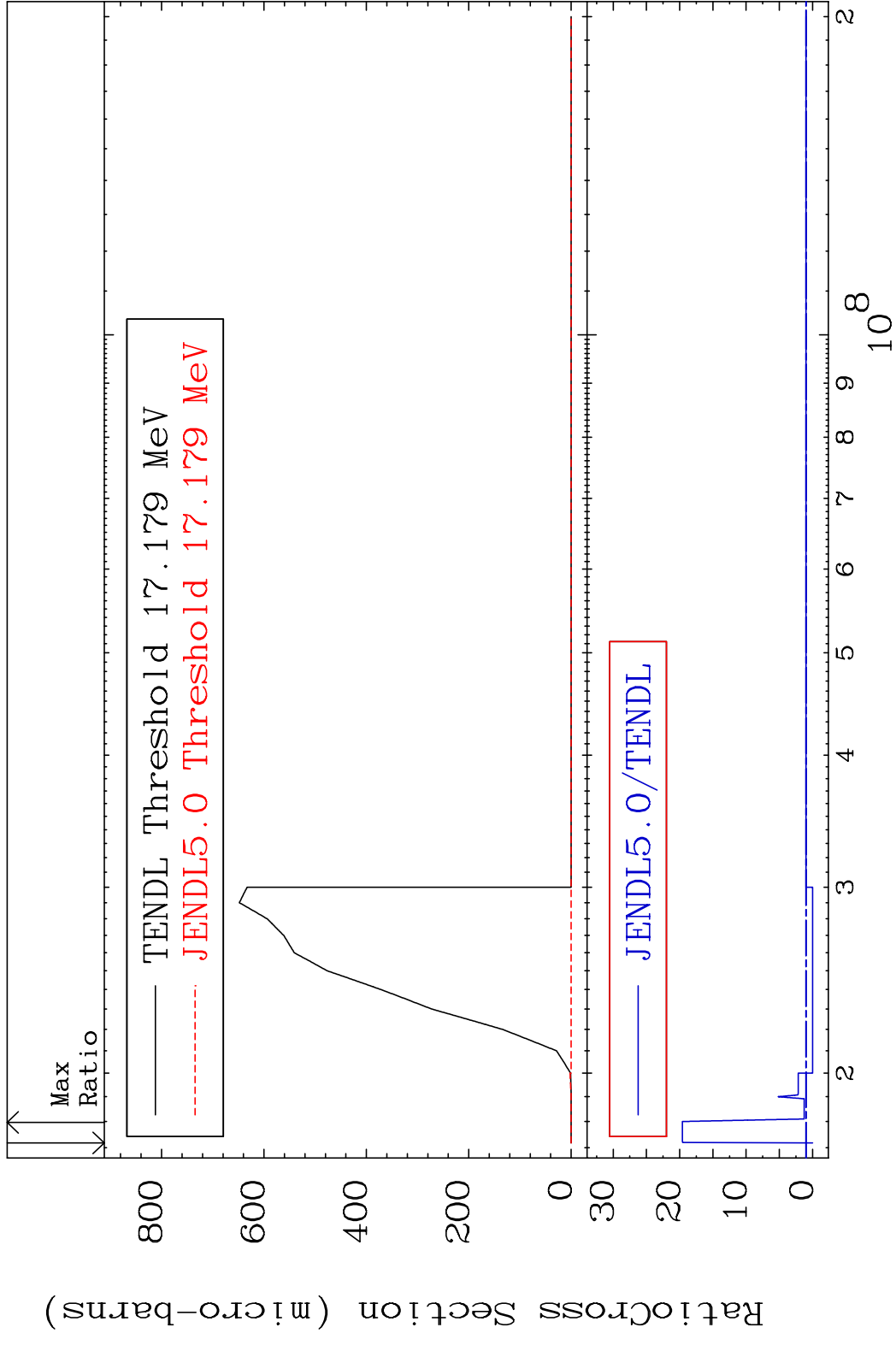


45

Incident Energy (eV)

18-Ar-39

MAT 1834 (n,p) t 18-Ar-39  
 Cross Section -100.0 To 1859. %

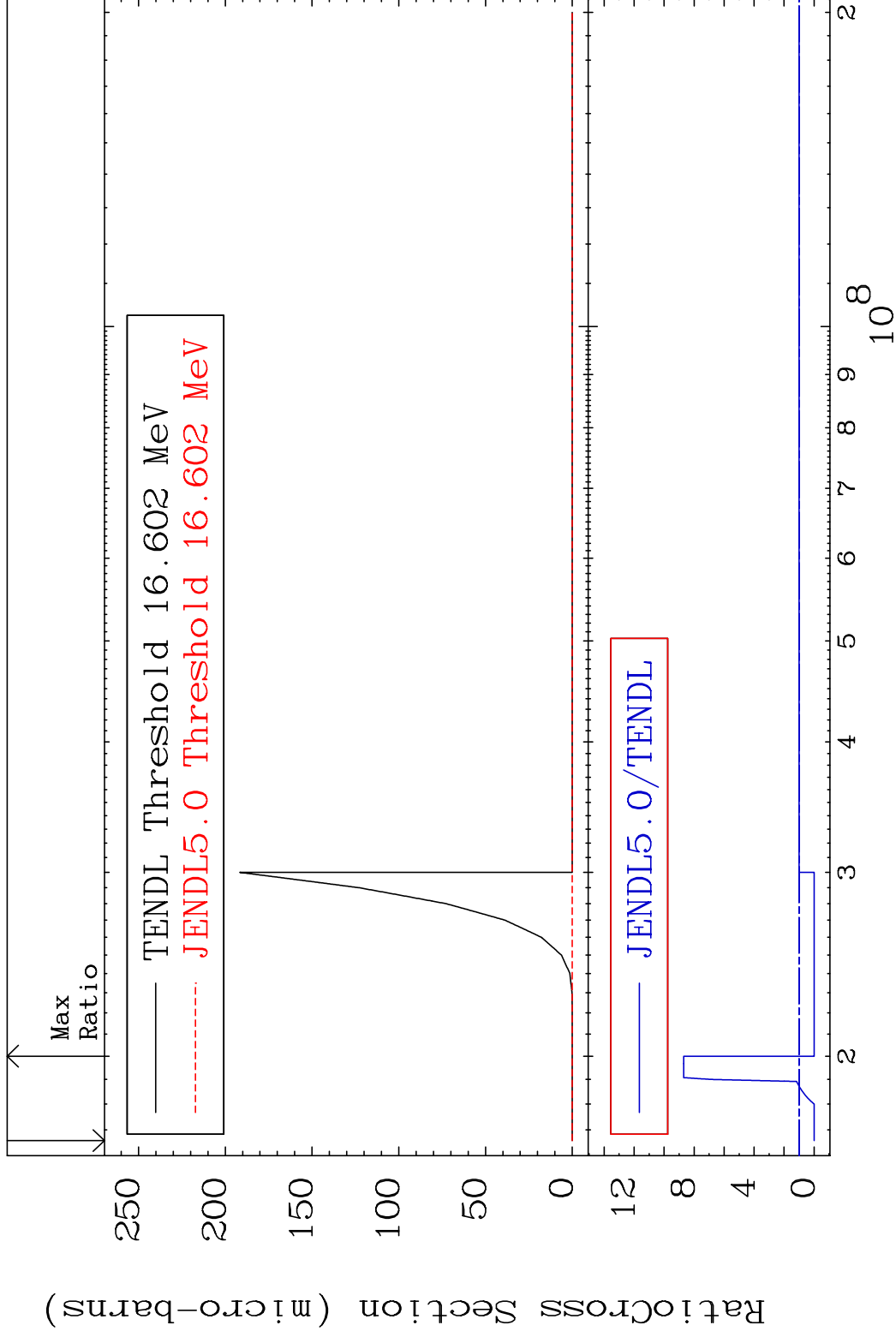


MAT 1834

(n, d)  $\alpha$

18-Ar-39

Cross Section -100.0 To 769.8 %



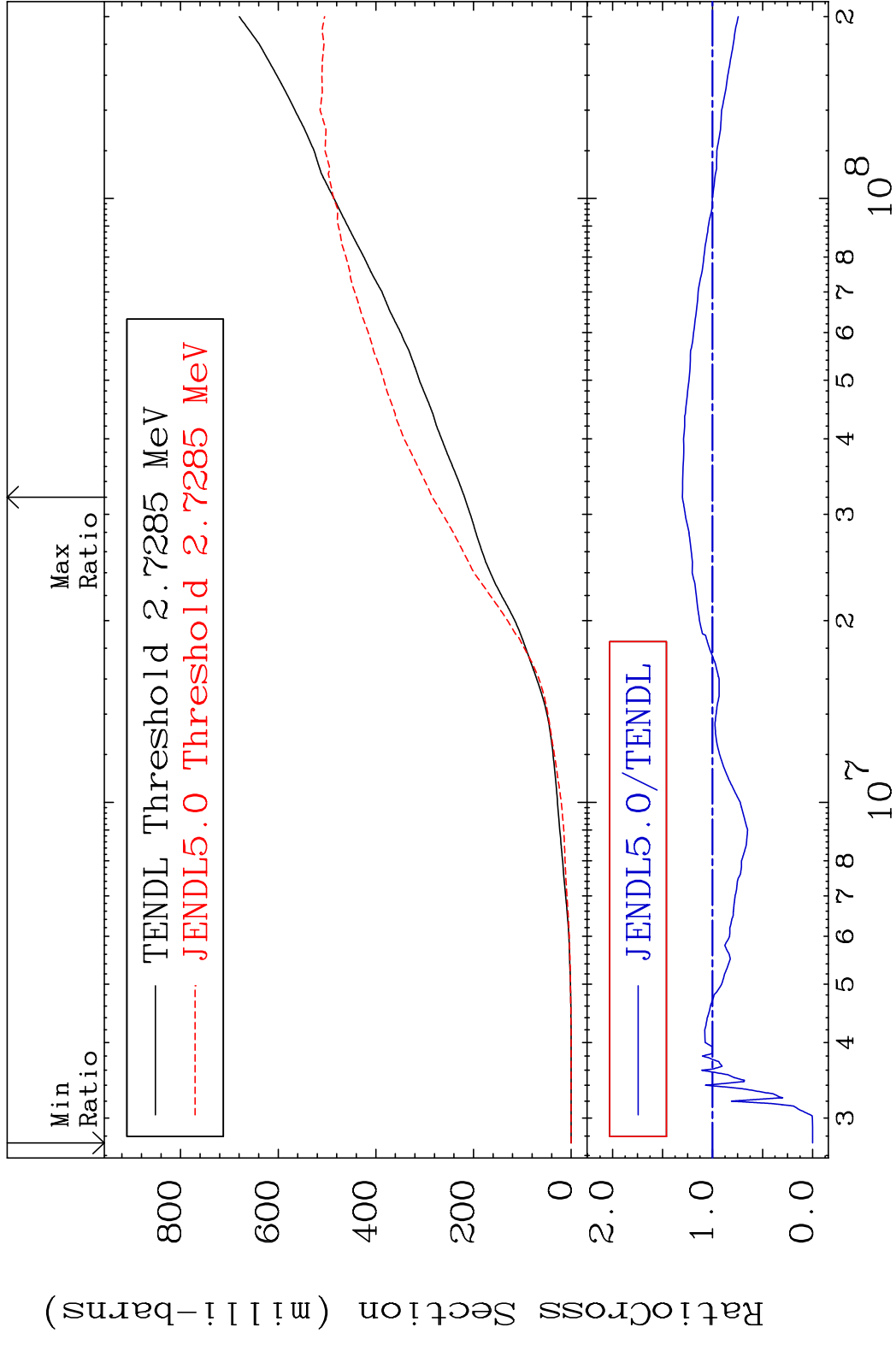
47

Incident Energy (eV)

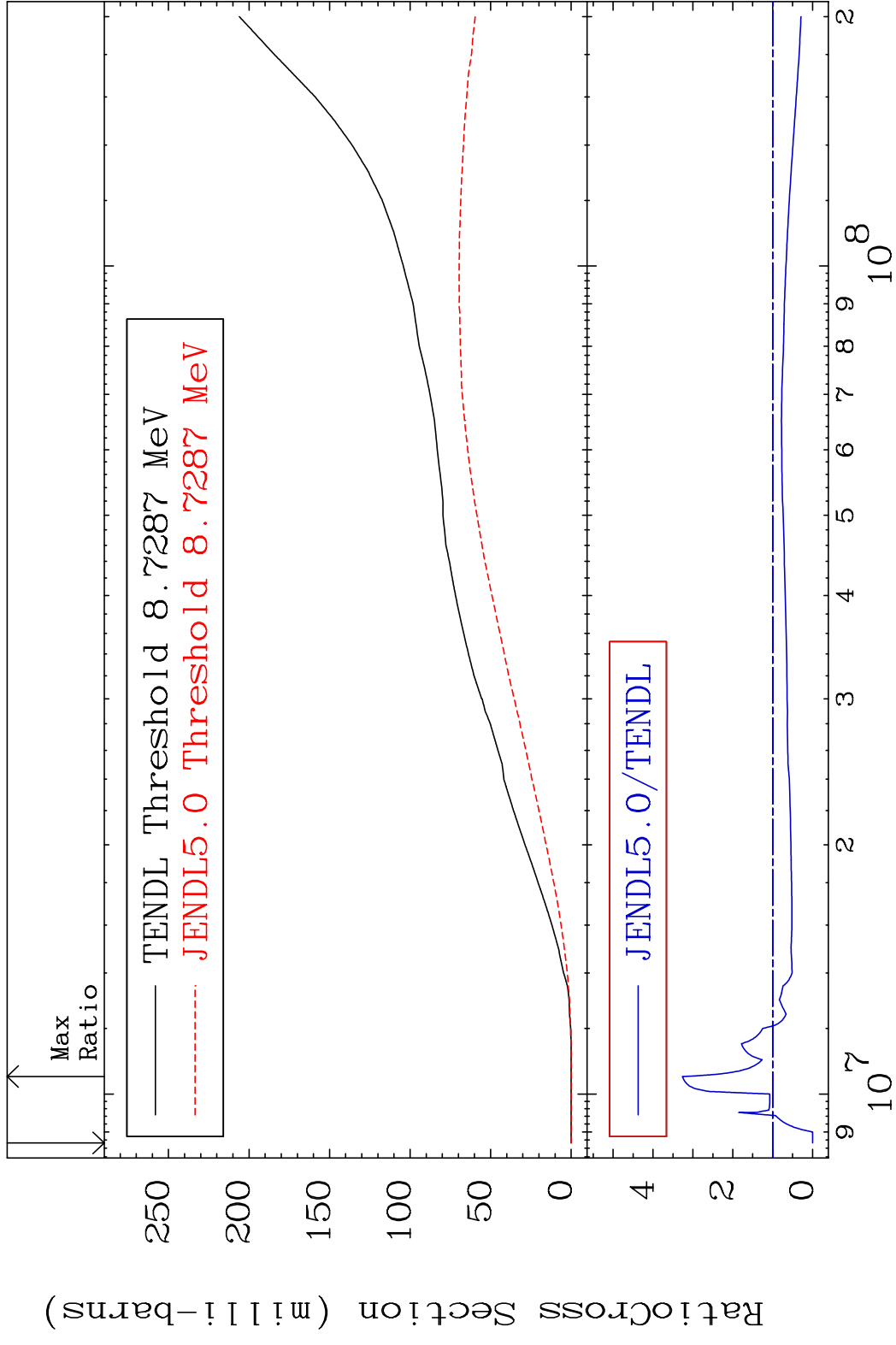
18-Ar-39



MAT 1834 Hydrogen Production 18-Ar-39  
 Cross Section -100.0 To 30.19 %

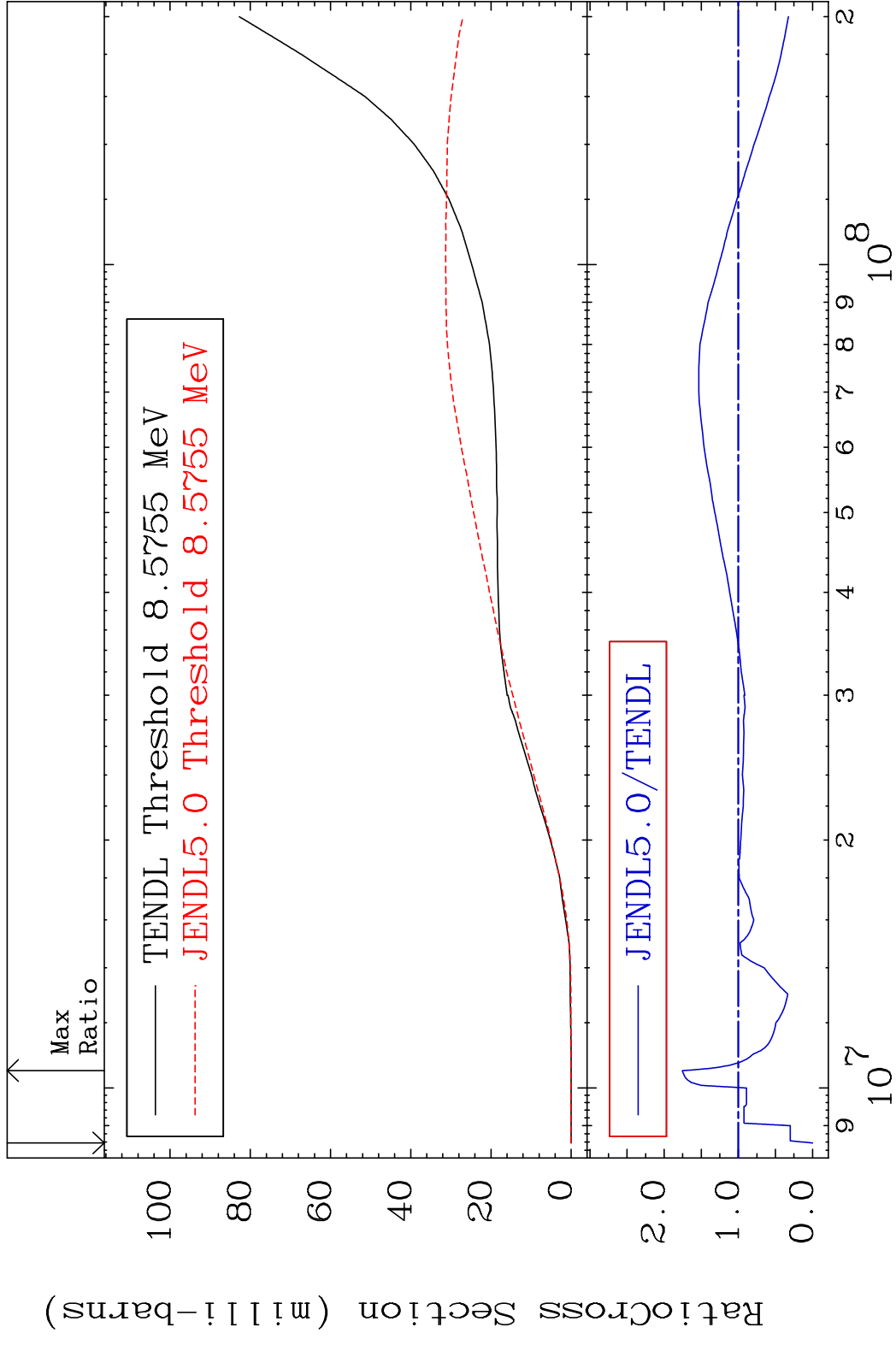


MAT 1834 Deuterium Production 18-Ar-39  
 Cross Section -100.0 To 226.5 %



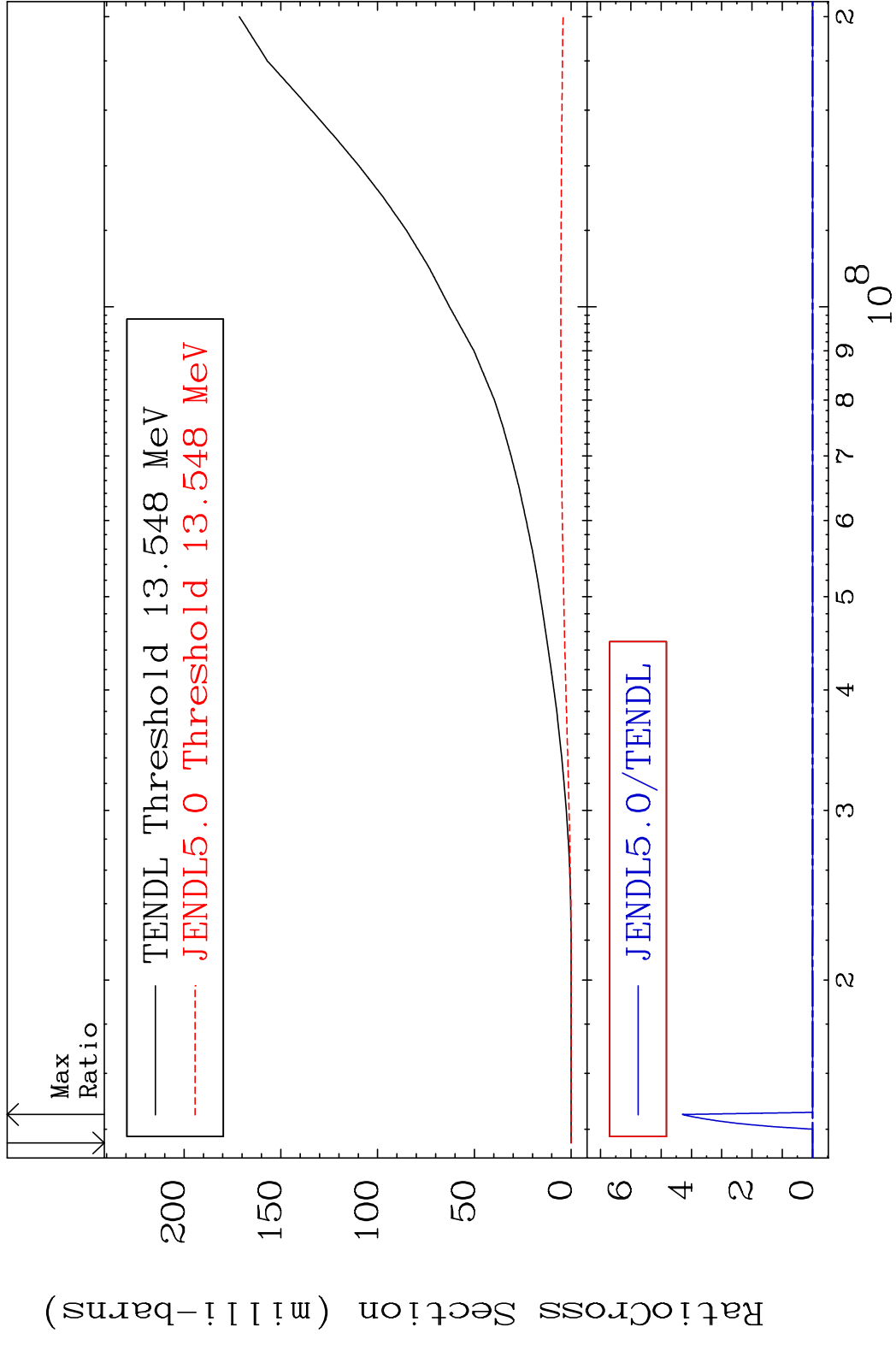
49 18-Ar-39

MAT 1834 Tritium Production 18-Ar-39  
 Cross Section -100.0 To 75.47 %



50 18-Ar-39

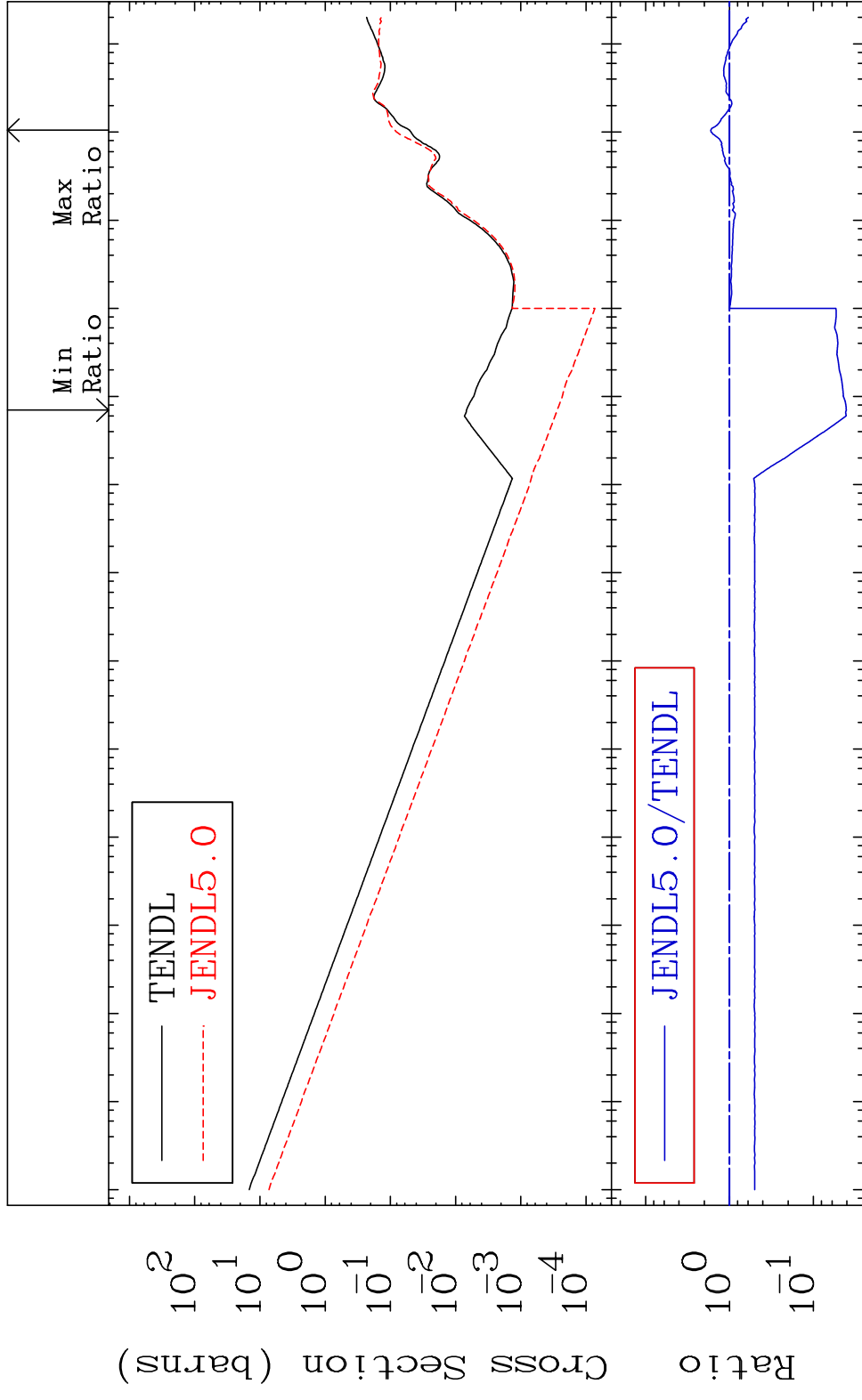
MAT 1834 He-3 Production 18-Ar-39  
 Cross Section -100.0 To 9999. %



MAT 1834

He-4 Production  
Cross Section

18-Ar-39  
-95.95 To 67.36 %



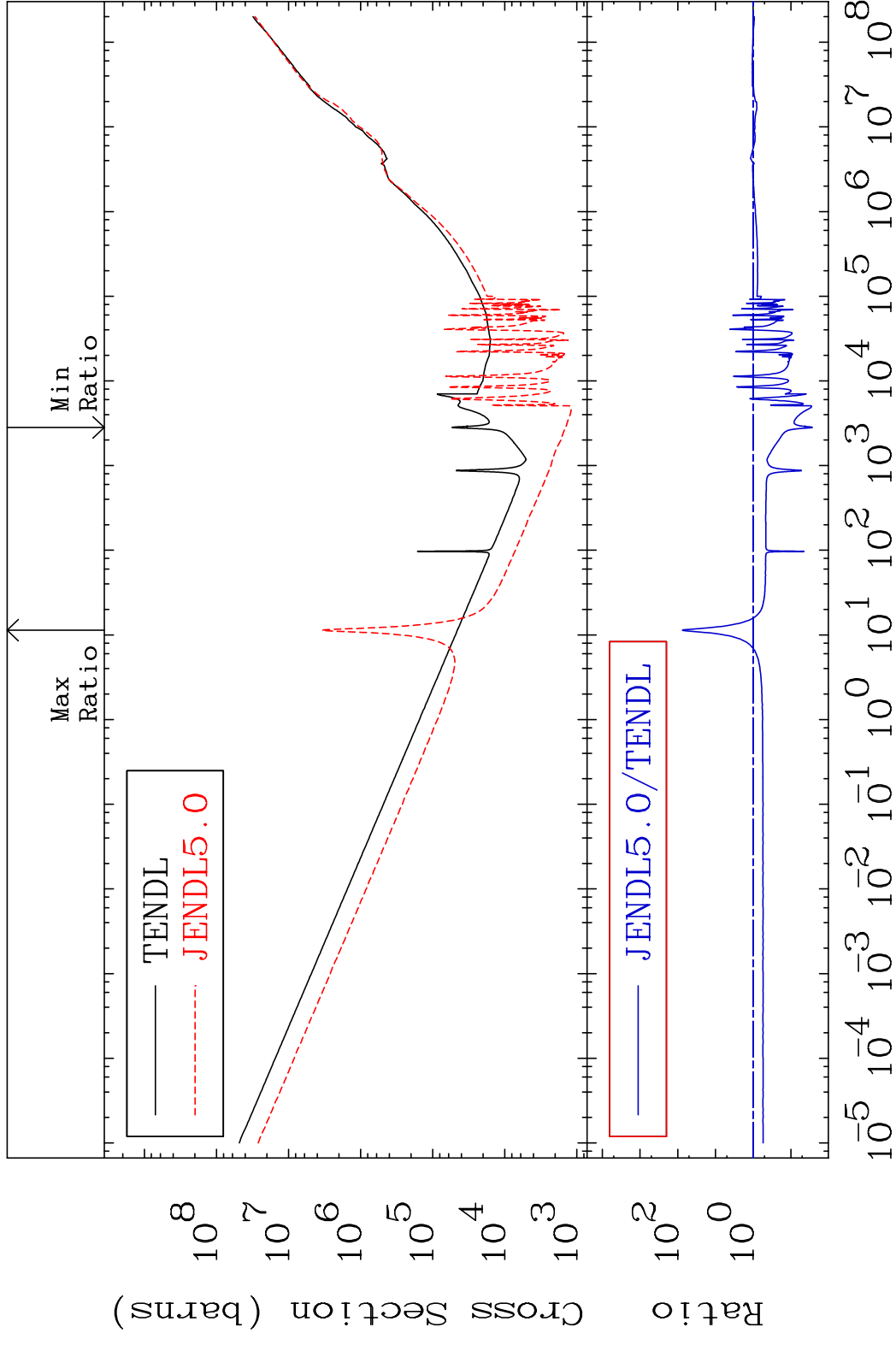
10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

52

Incident Energy (eV)

18-Ar-39

MAT 1834 Kerma total (eV-barns) 18-Ar-39  
 Cross Section -97.34 To 7435. %

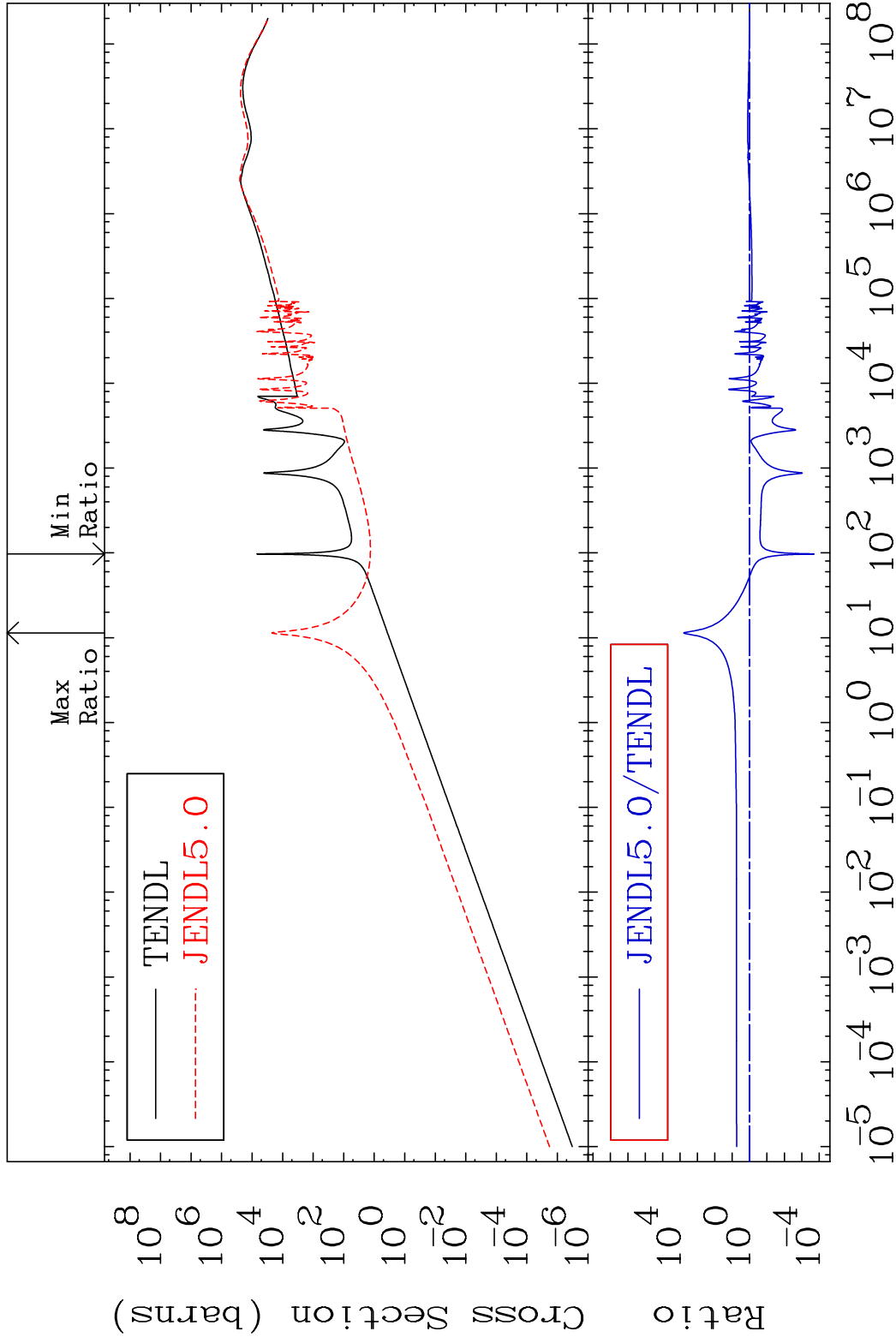


MAT 1834

Kerma elastic

18-Ar-39

Cross Section -99.98 To 9999. %

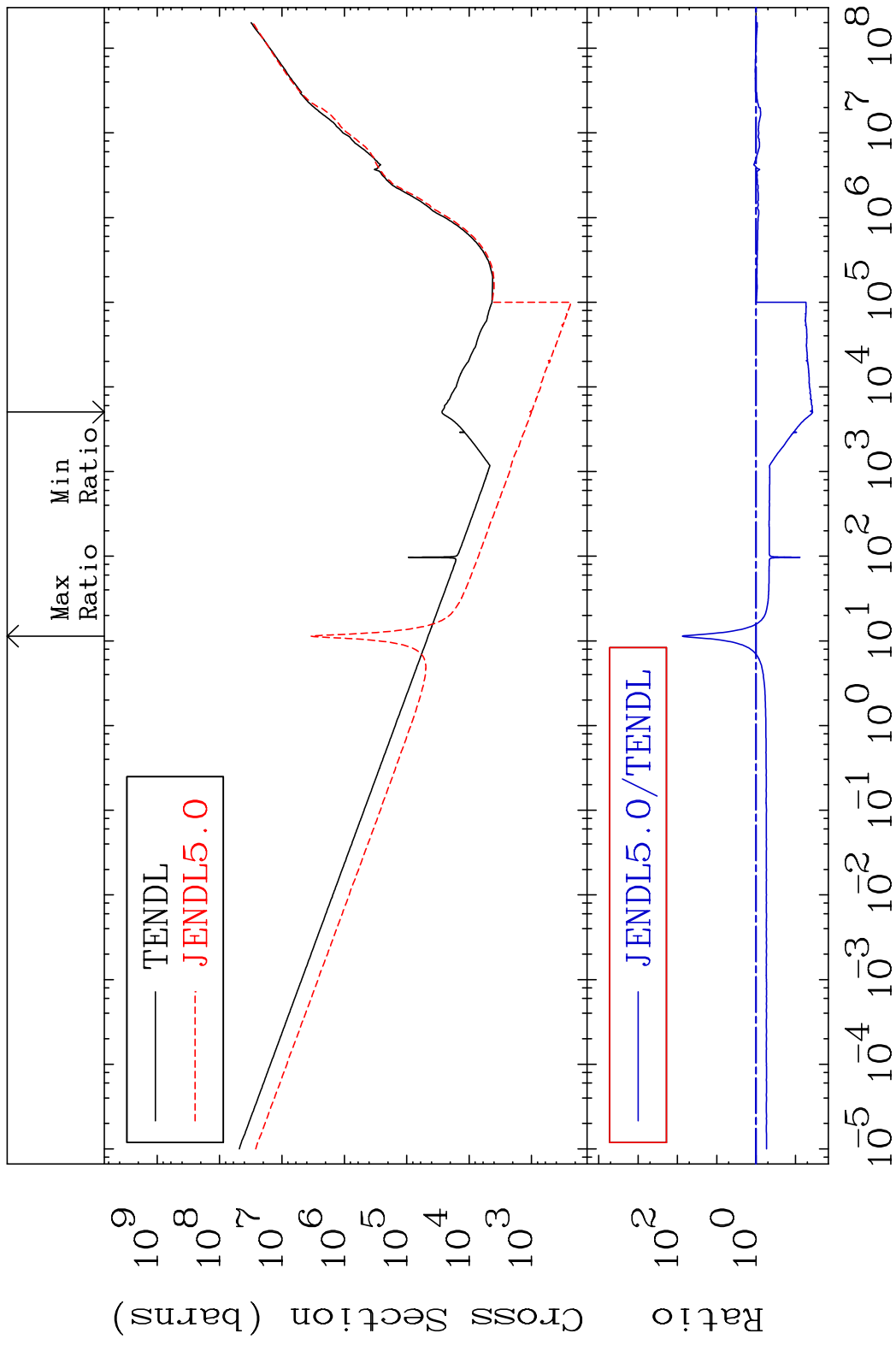


54

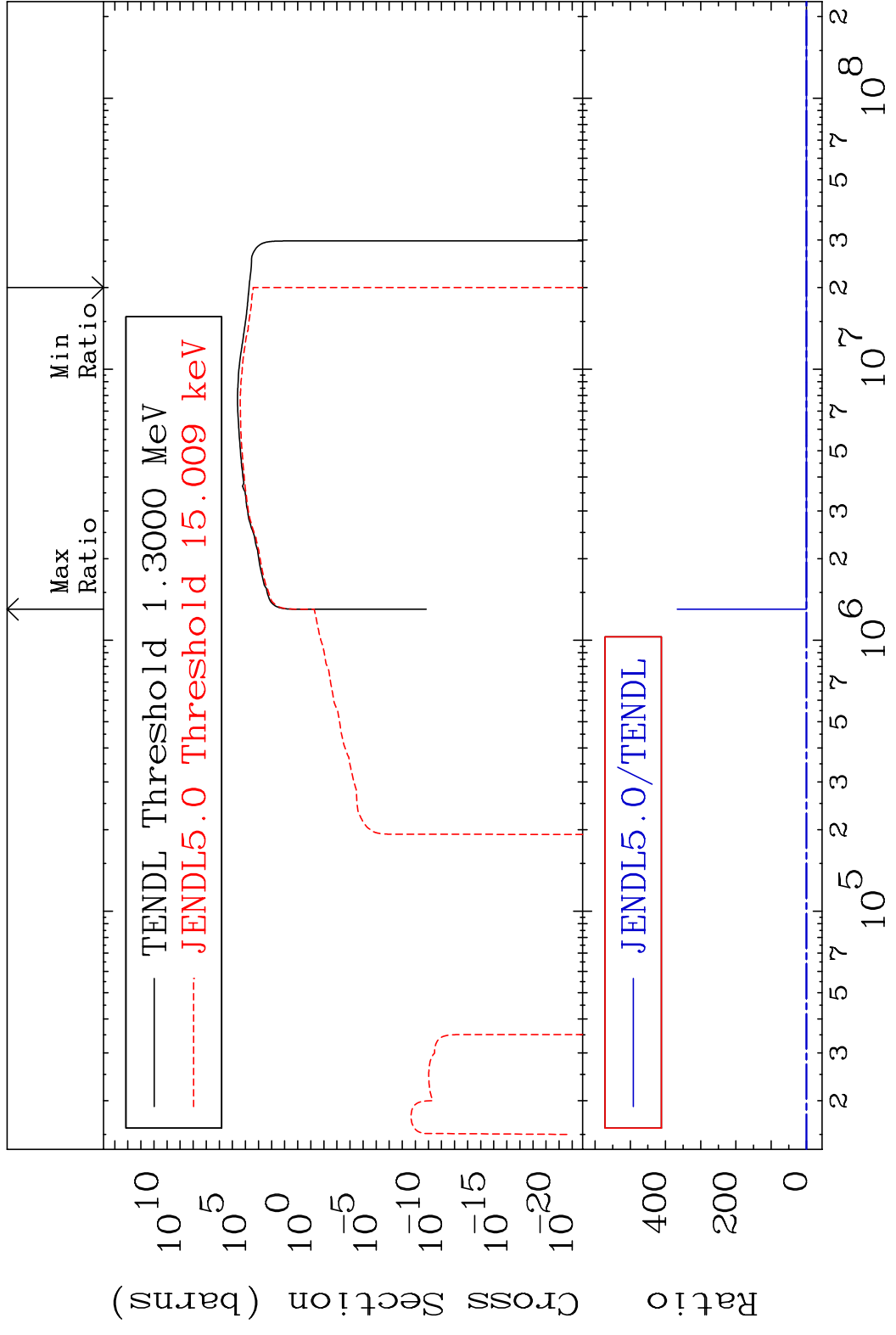
Incident Energy (eV)

18-Ar-39

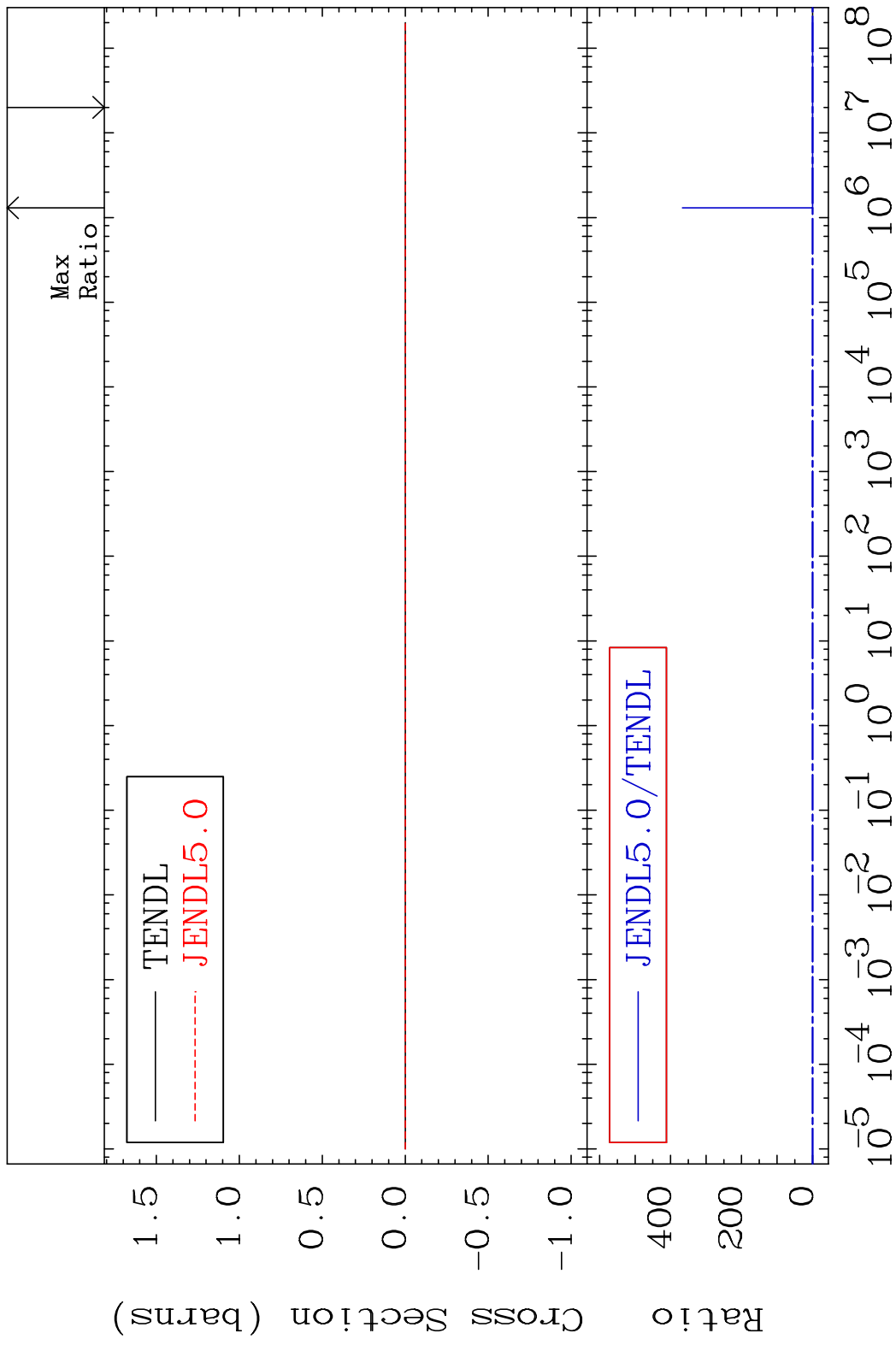
MAT 1834 Kerma non-elastic (all but mt2) 18-Ar-39  
 Cross Section -96.32 To 7386. %

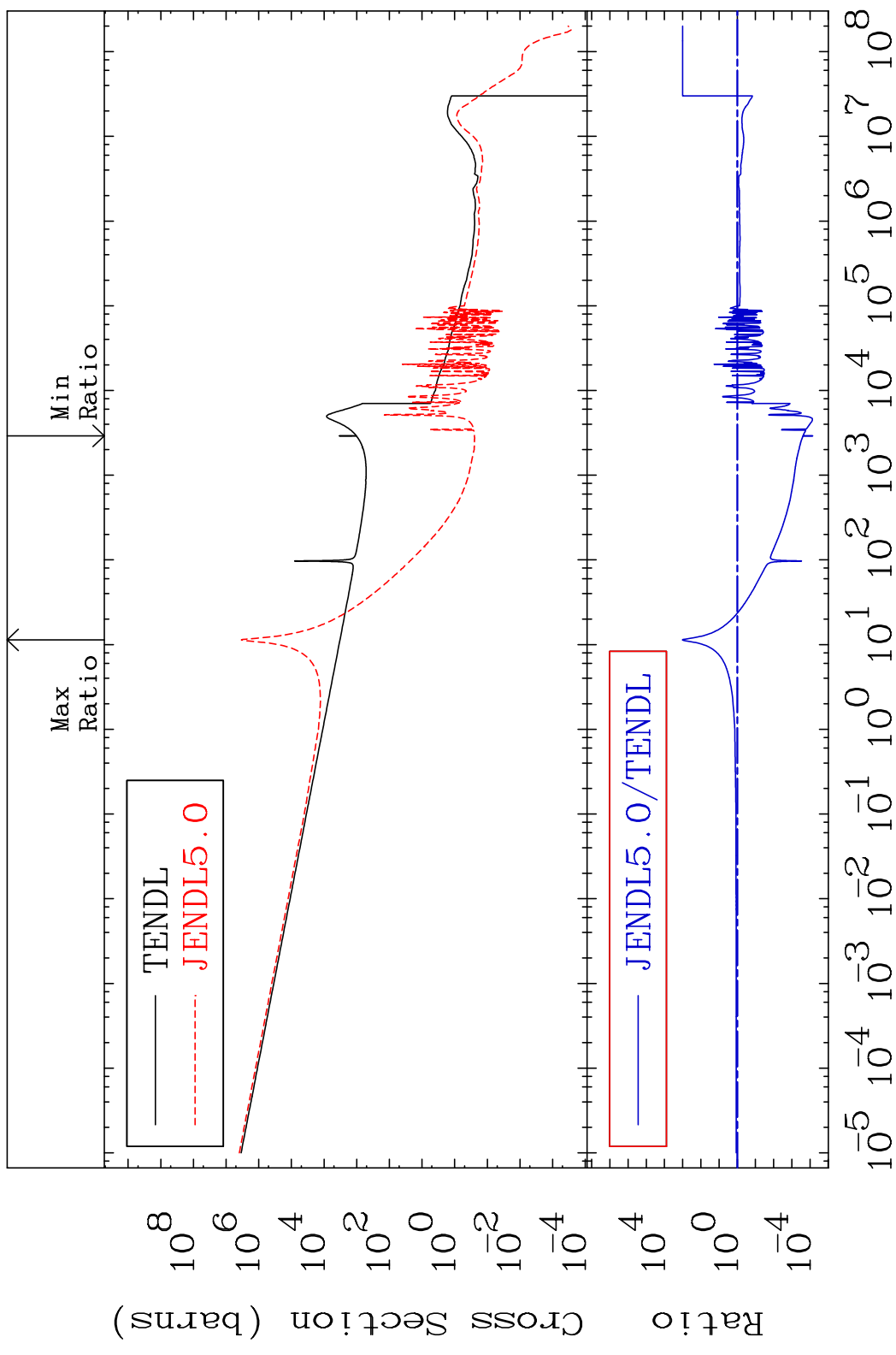




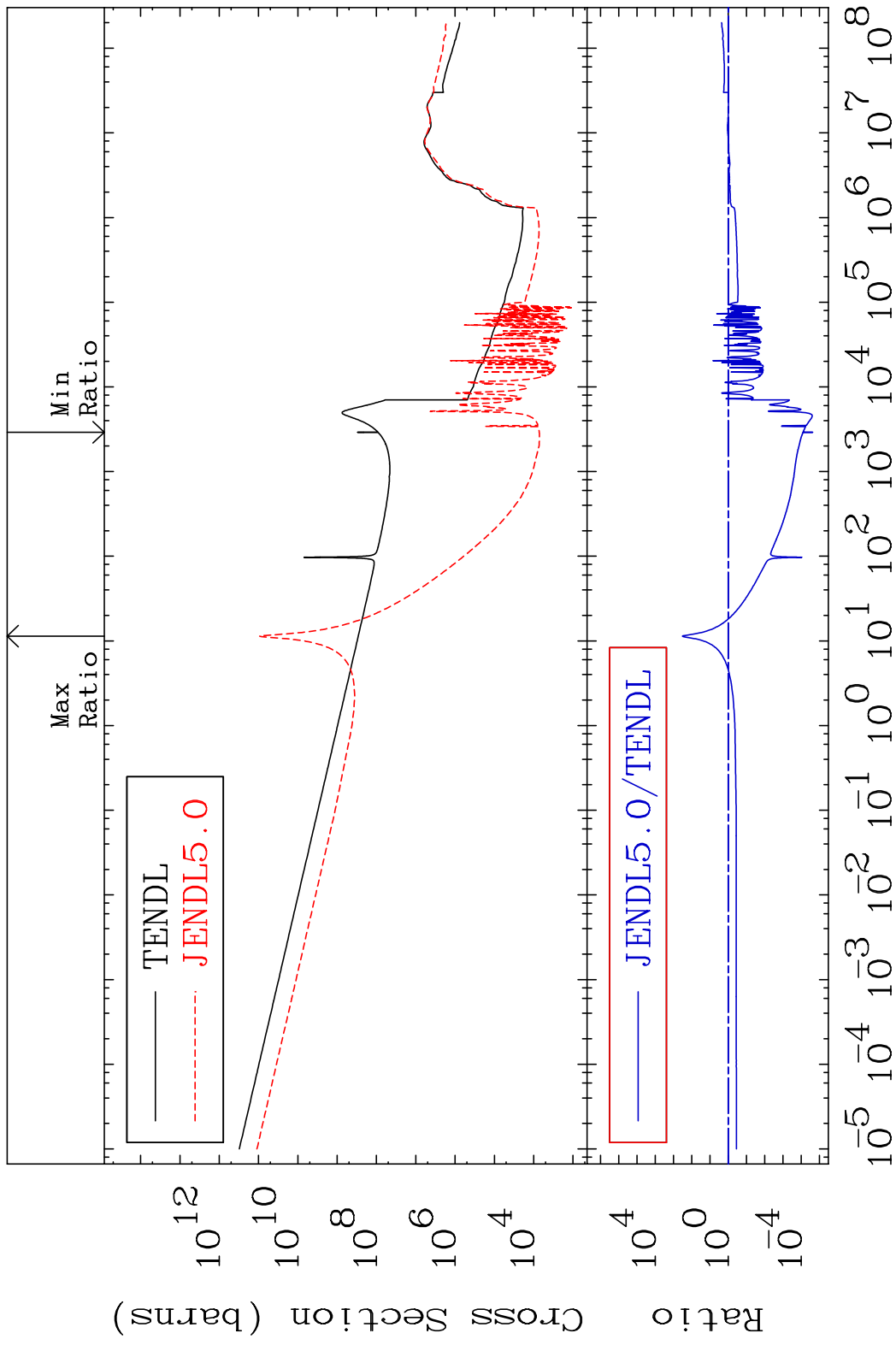


MAT 1834 Kerma fission (mt18 or mt19-20-21-38) 18-Ar-39  
 Cross Section -100.0 To 9999. %

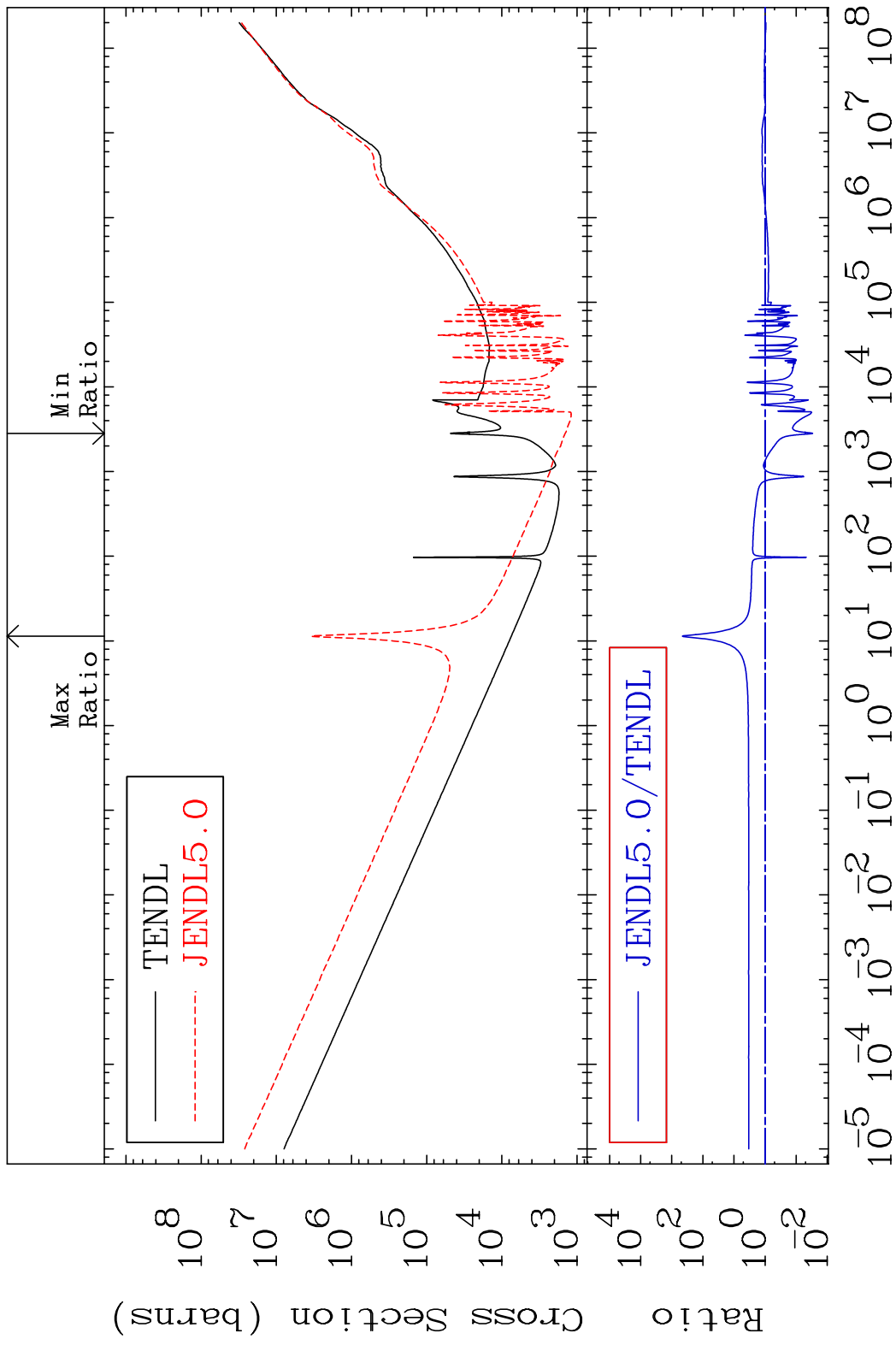




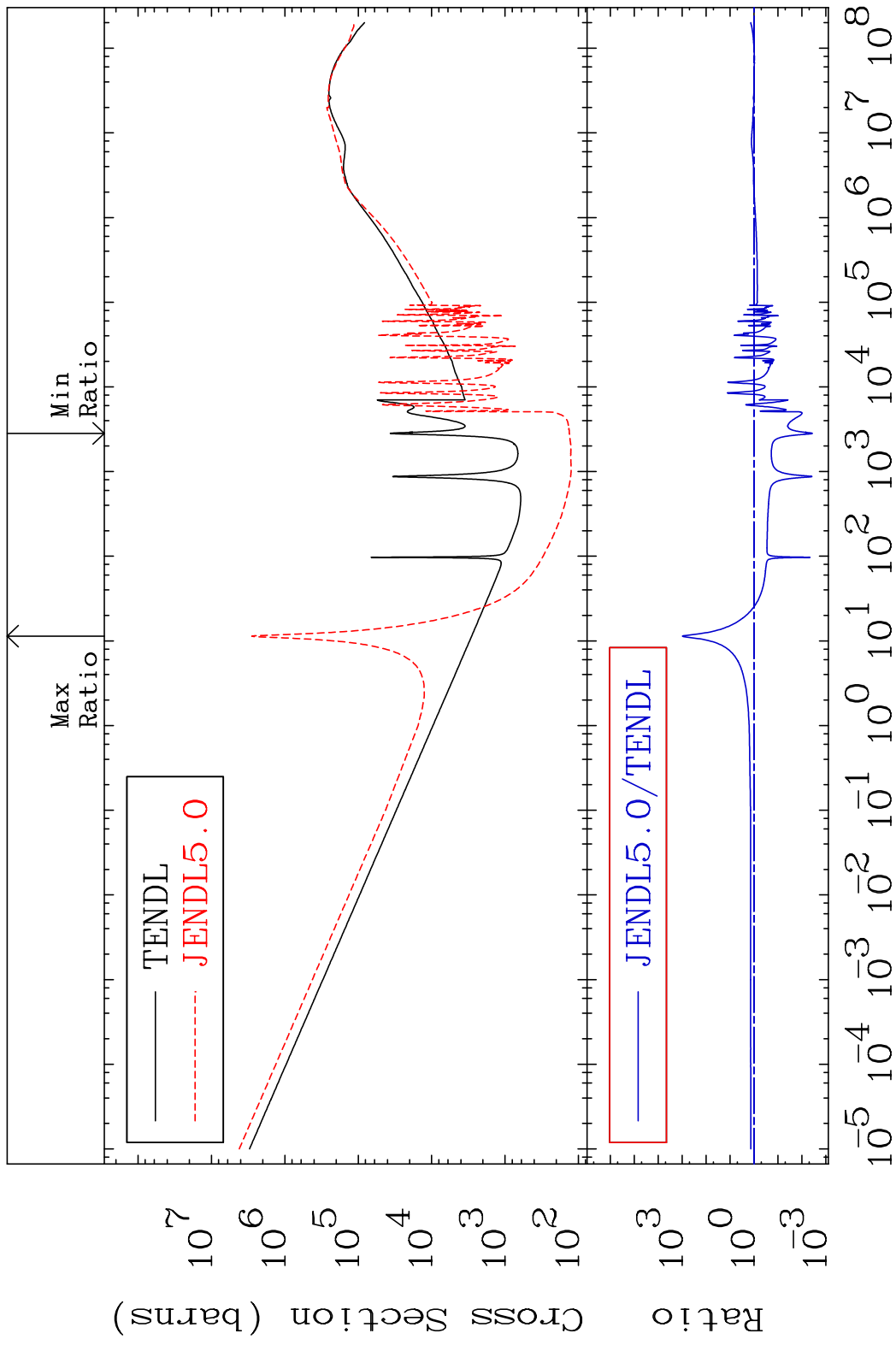
MAT 1834 Total photon (eV-barns) 18-Ar-39  
 Cross Section -100.0 To 9999. %



MAT 1834 Total kinematic kerma (high limit) 18-Ar-39  
Cross Section -97.03 To 9999. %



MAT 1834      Dpa total (eV-barns)      18-Ar-39  
 Cross Section      -99.64 To 9999. %



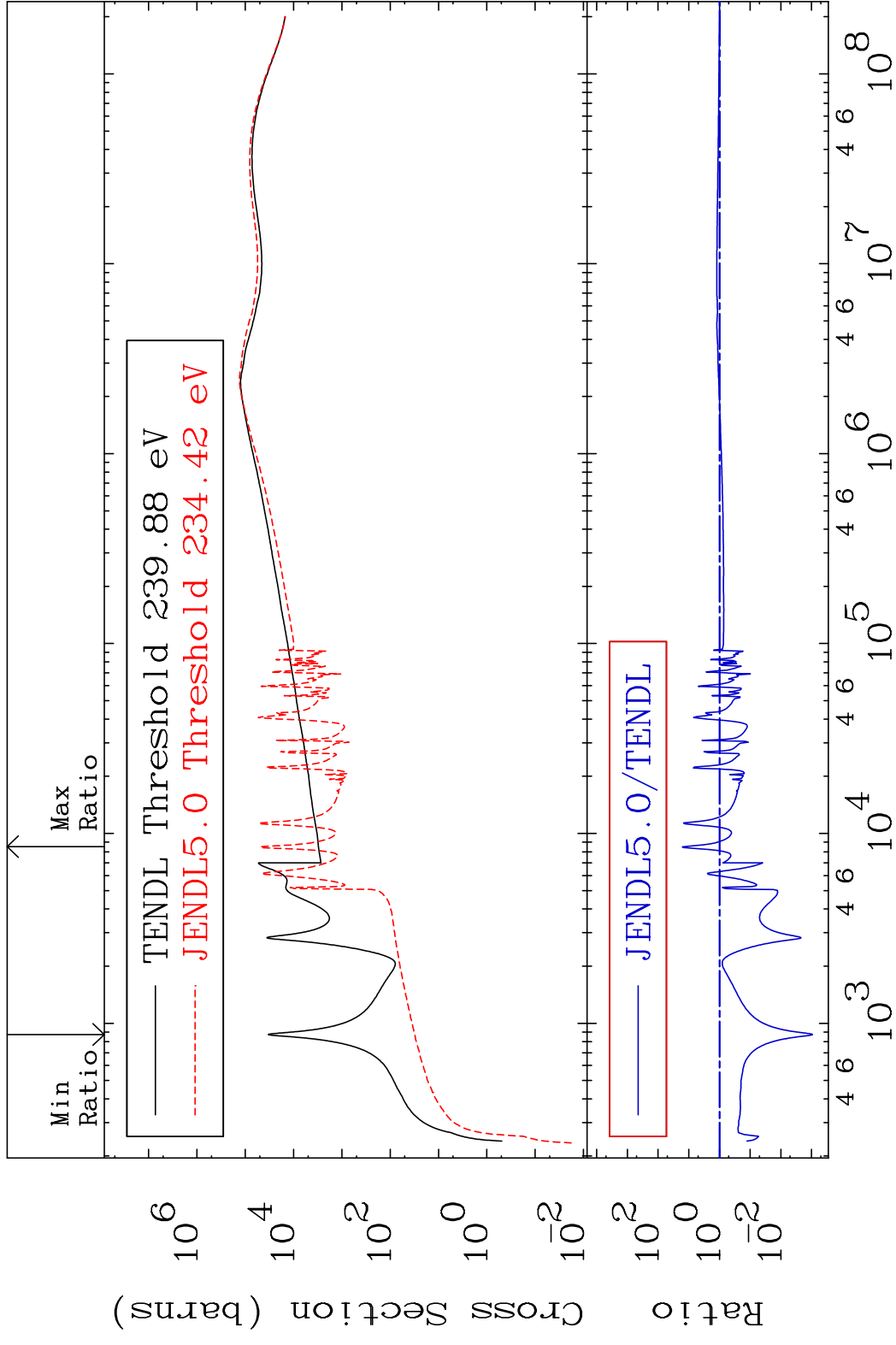
61      Incident Energy (eV)      18-Ar-39

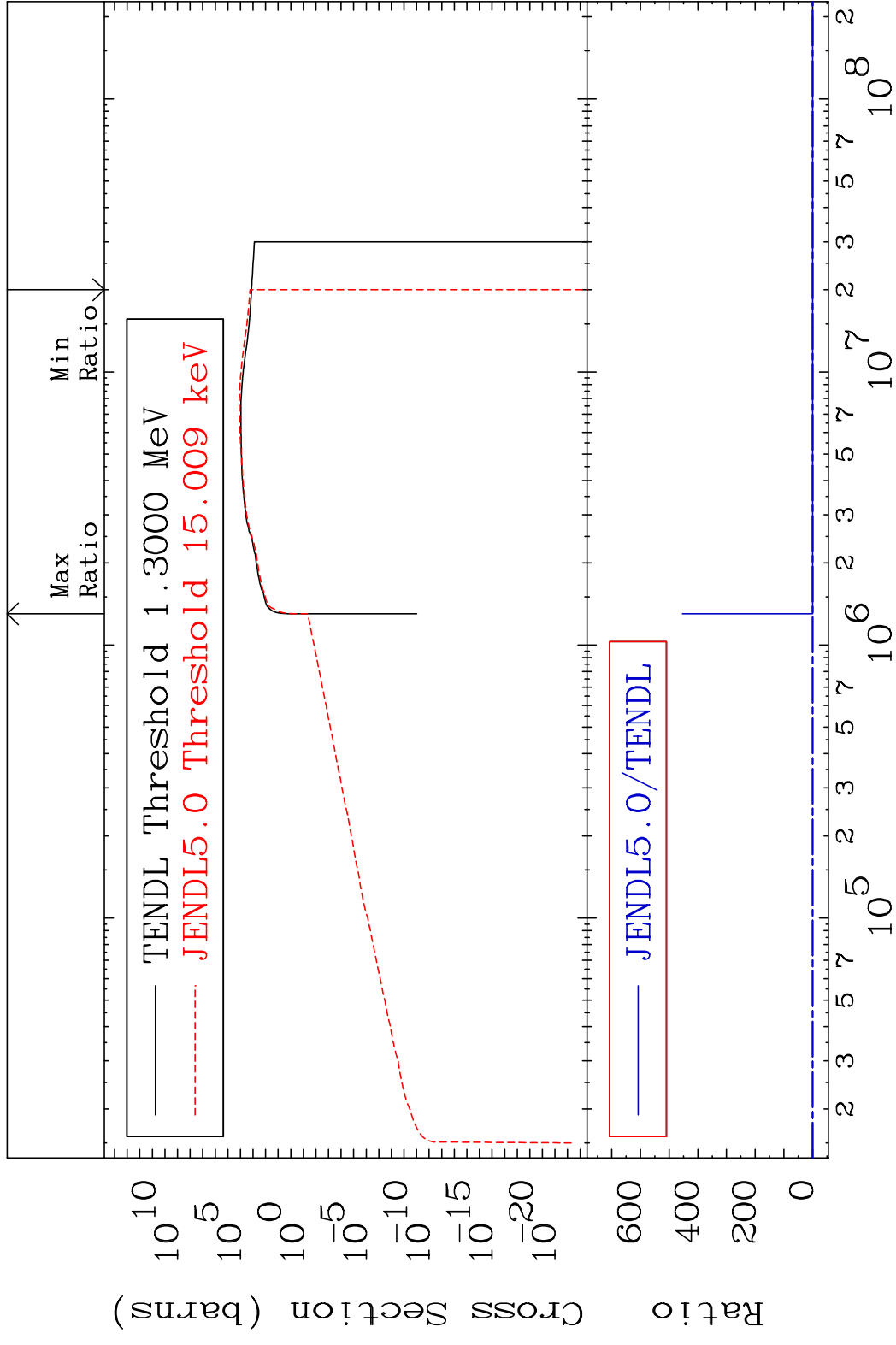
MAT 1834

Dpa elastic (mt2)

18-Ar-39

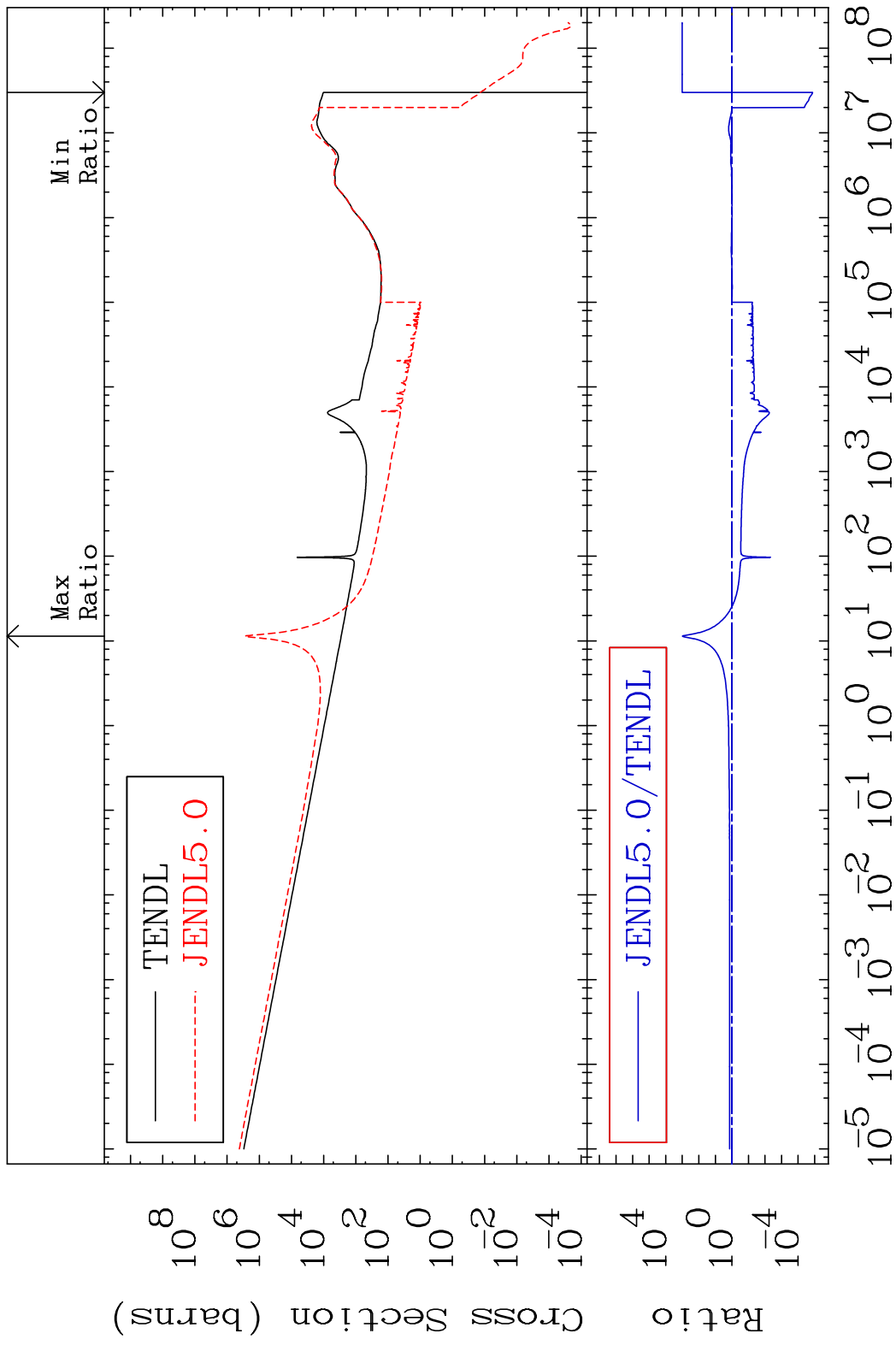
Cross Section -99.91 To 1520. %

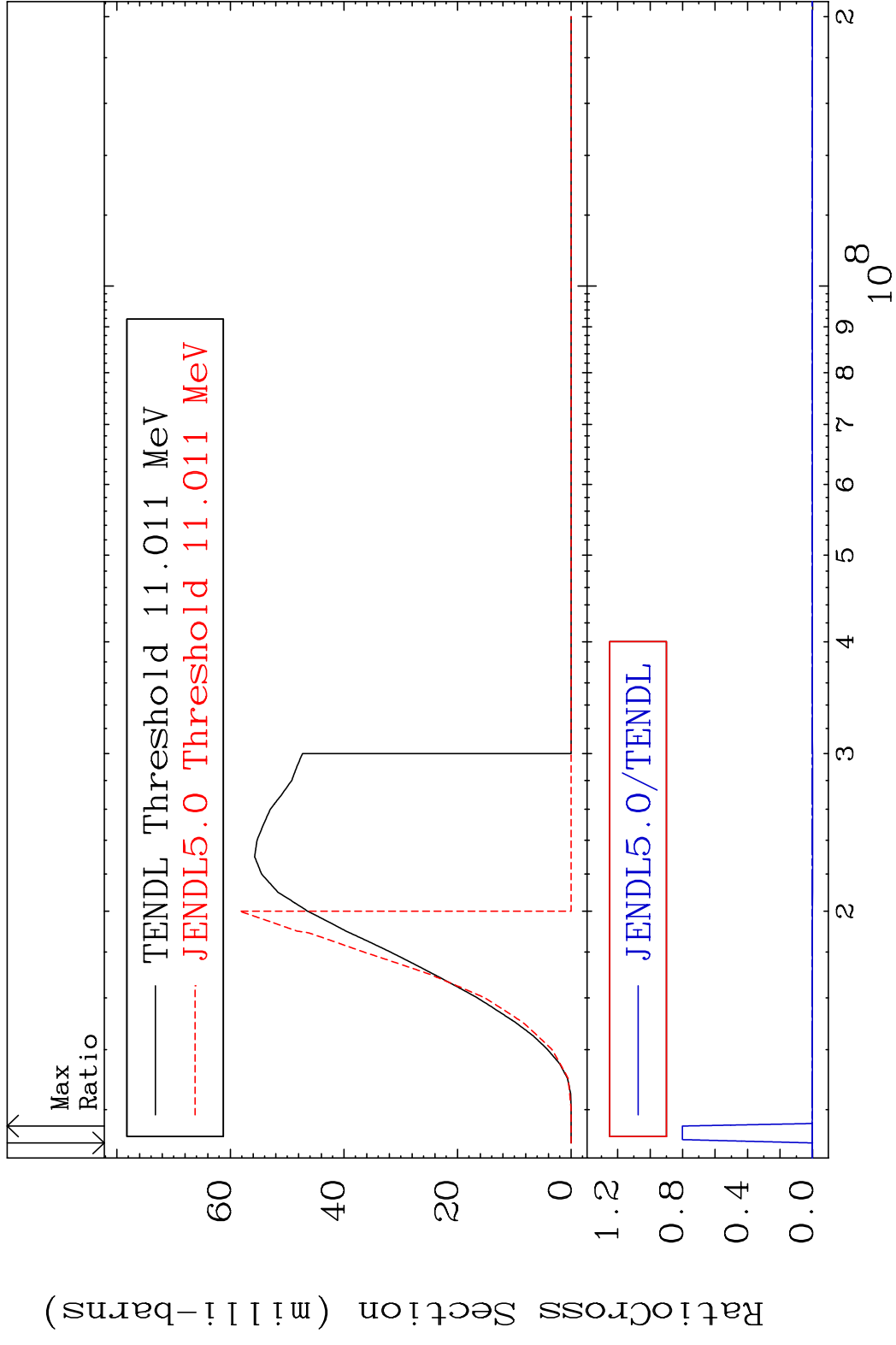


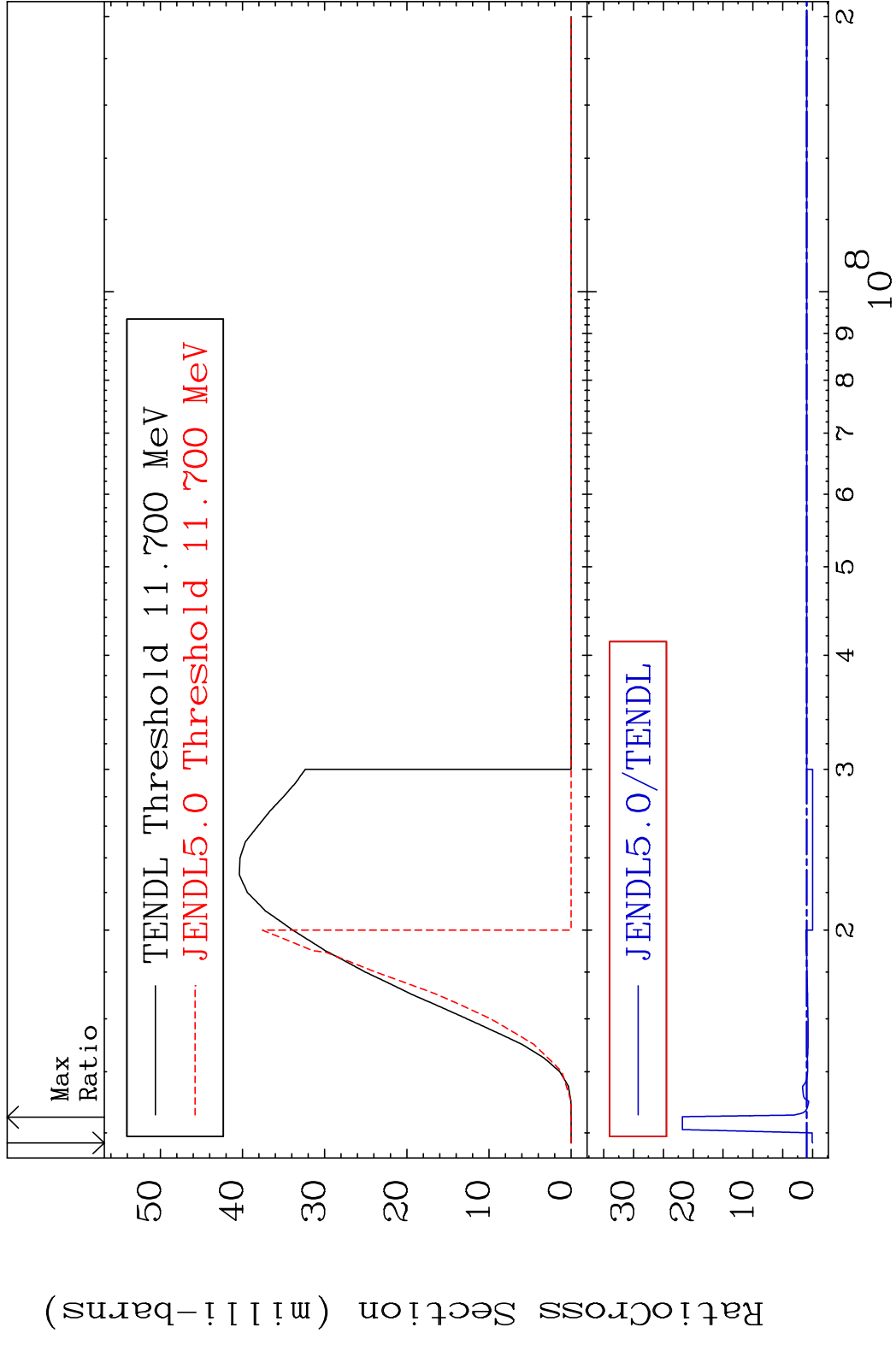


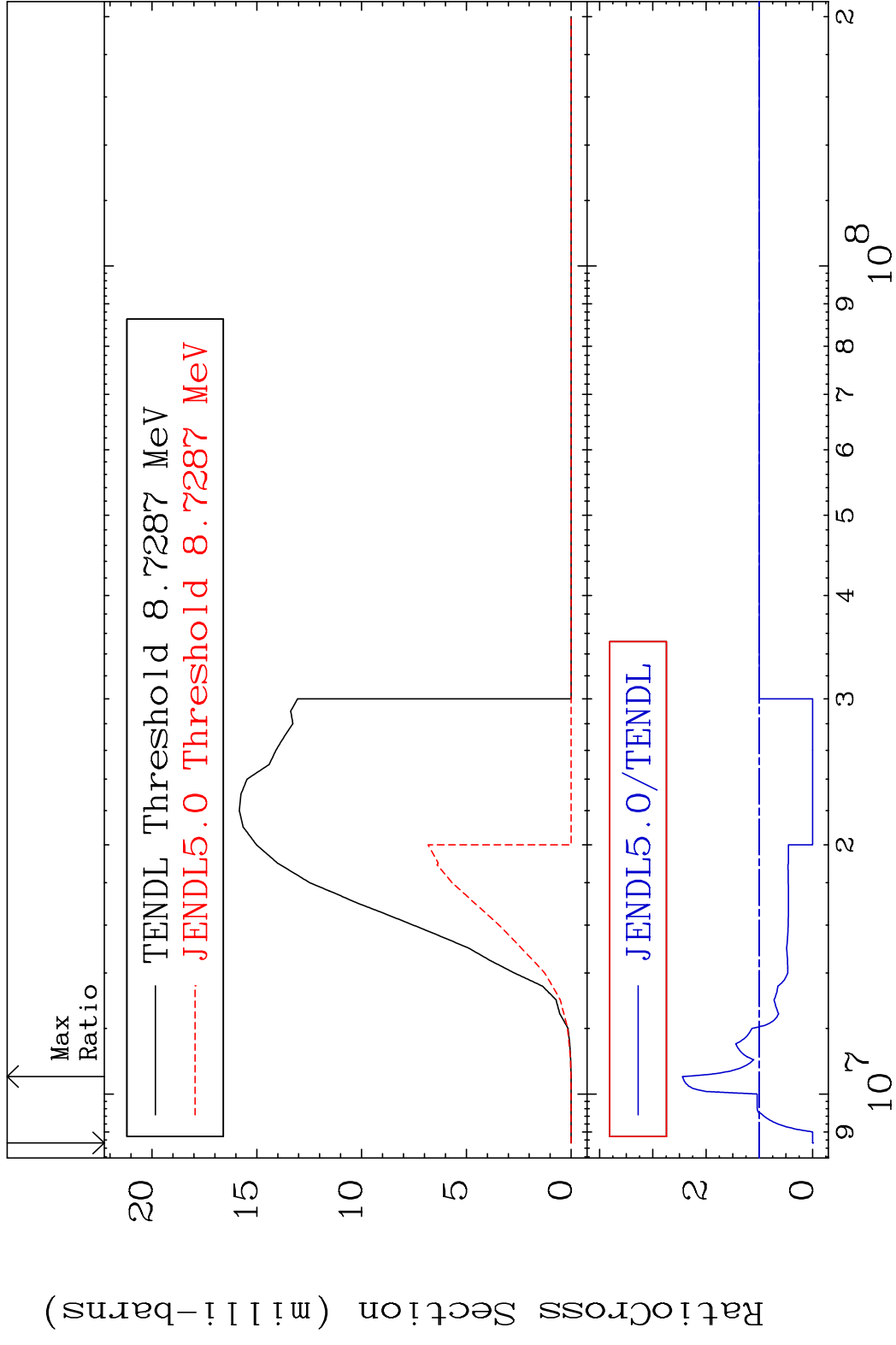


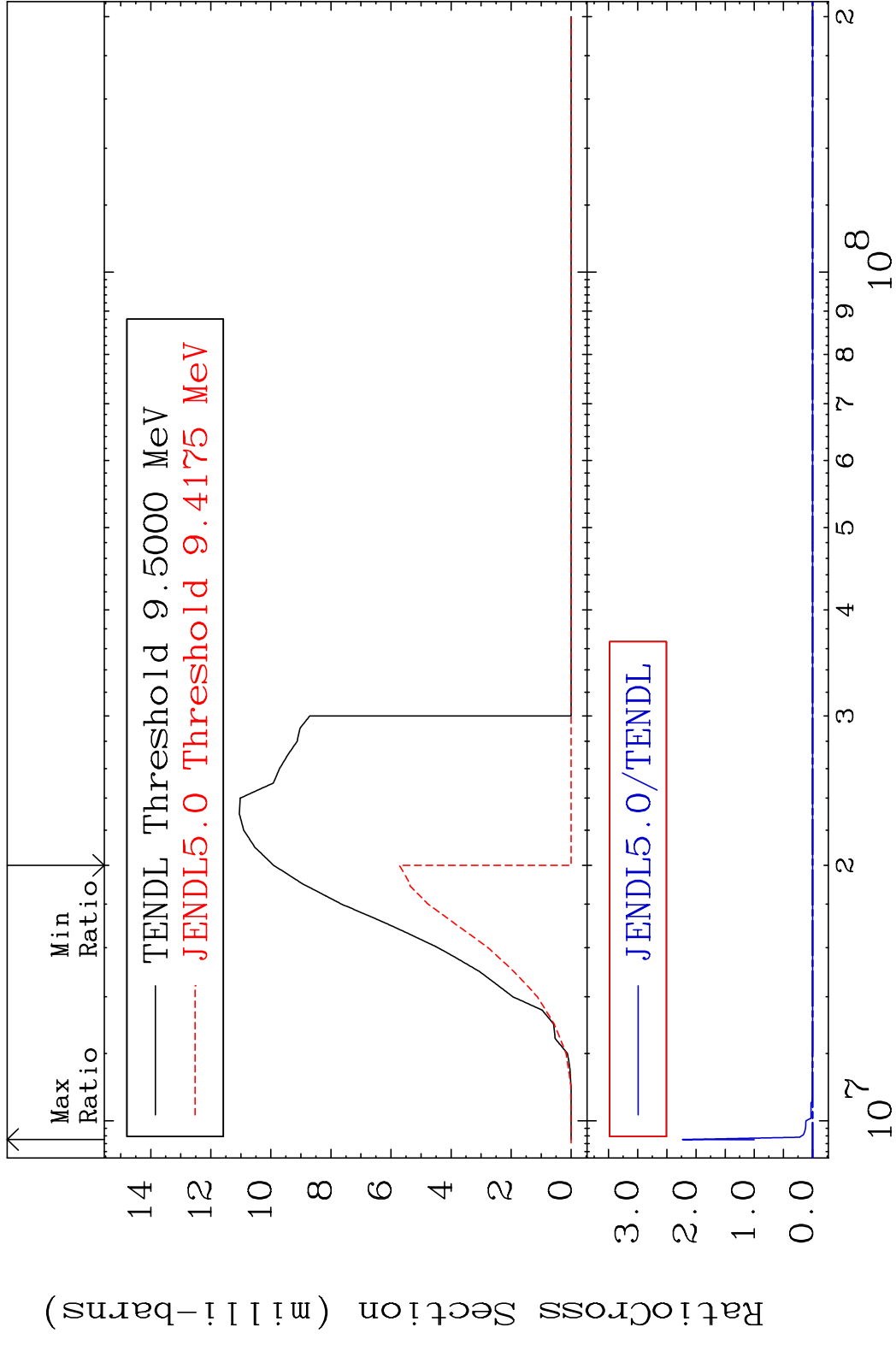
MAT 1834 Dpa disappearance (mt102 -120) 18-Ar-39  
 Cross Section -100.0 To 9999. %



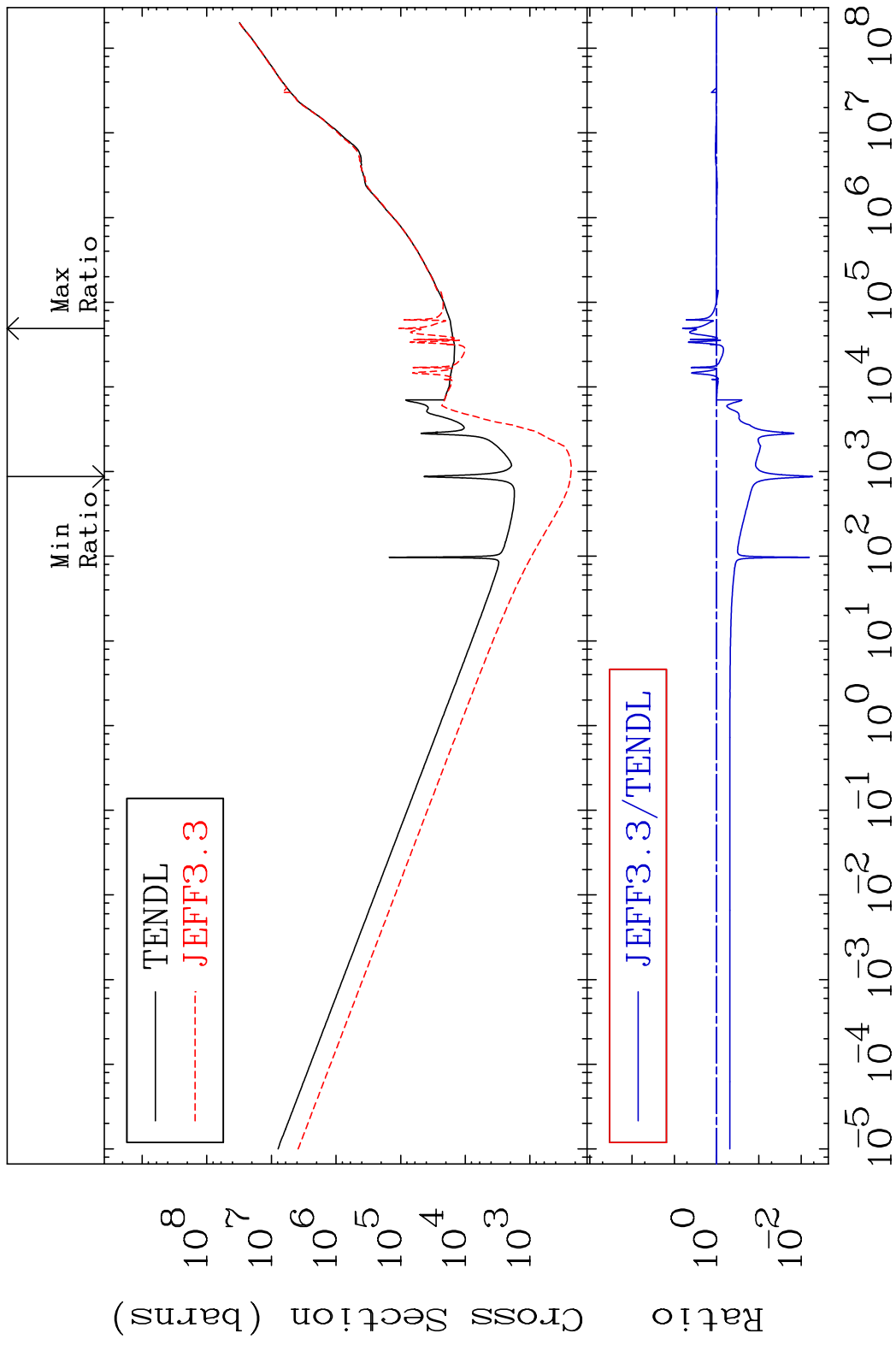




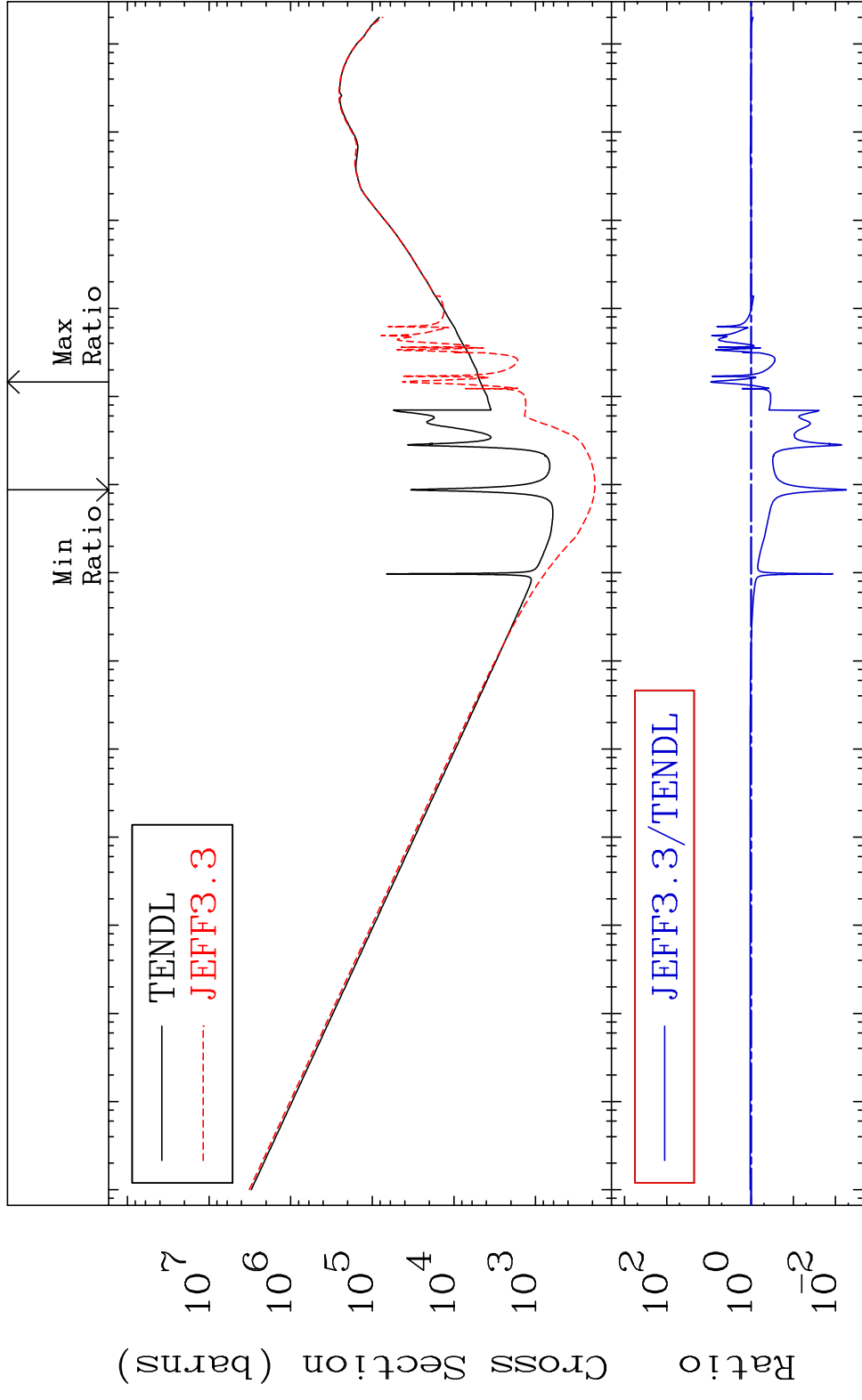




MAT 1834 Total kinematic kerma (high limit) 18-Ar-39  
 Cross Section -99.46 To 545.1 %



MAT 1834      Dpa total (eV-barns)      18-Ar-39  
 Cross Section      -99.44 To 810.1 %



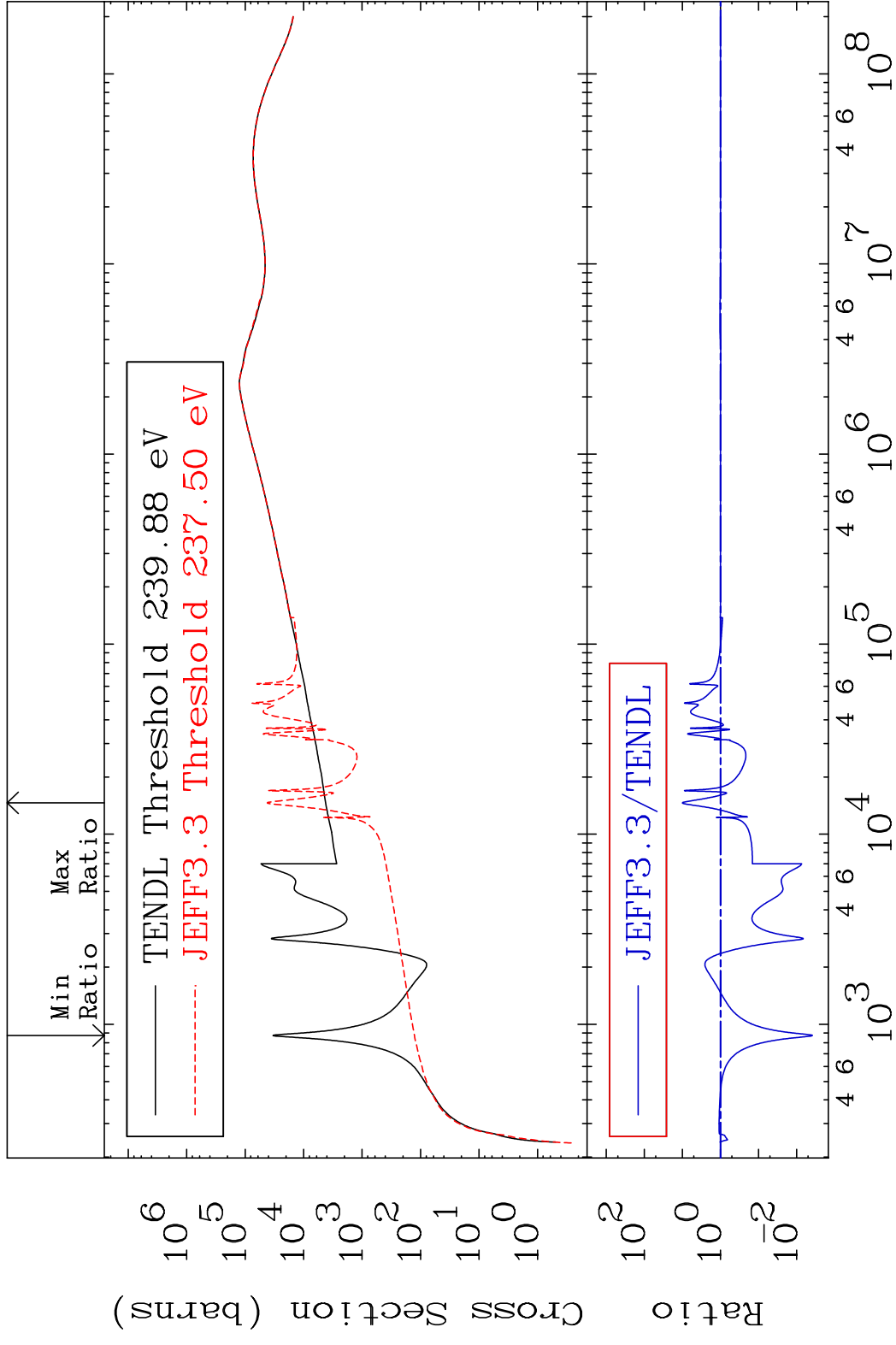
70      Incident Energy (eV)      18-Ar-39

MAT 1834

Dpa elastic (mt2)

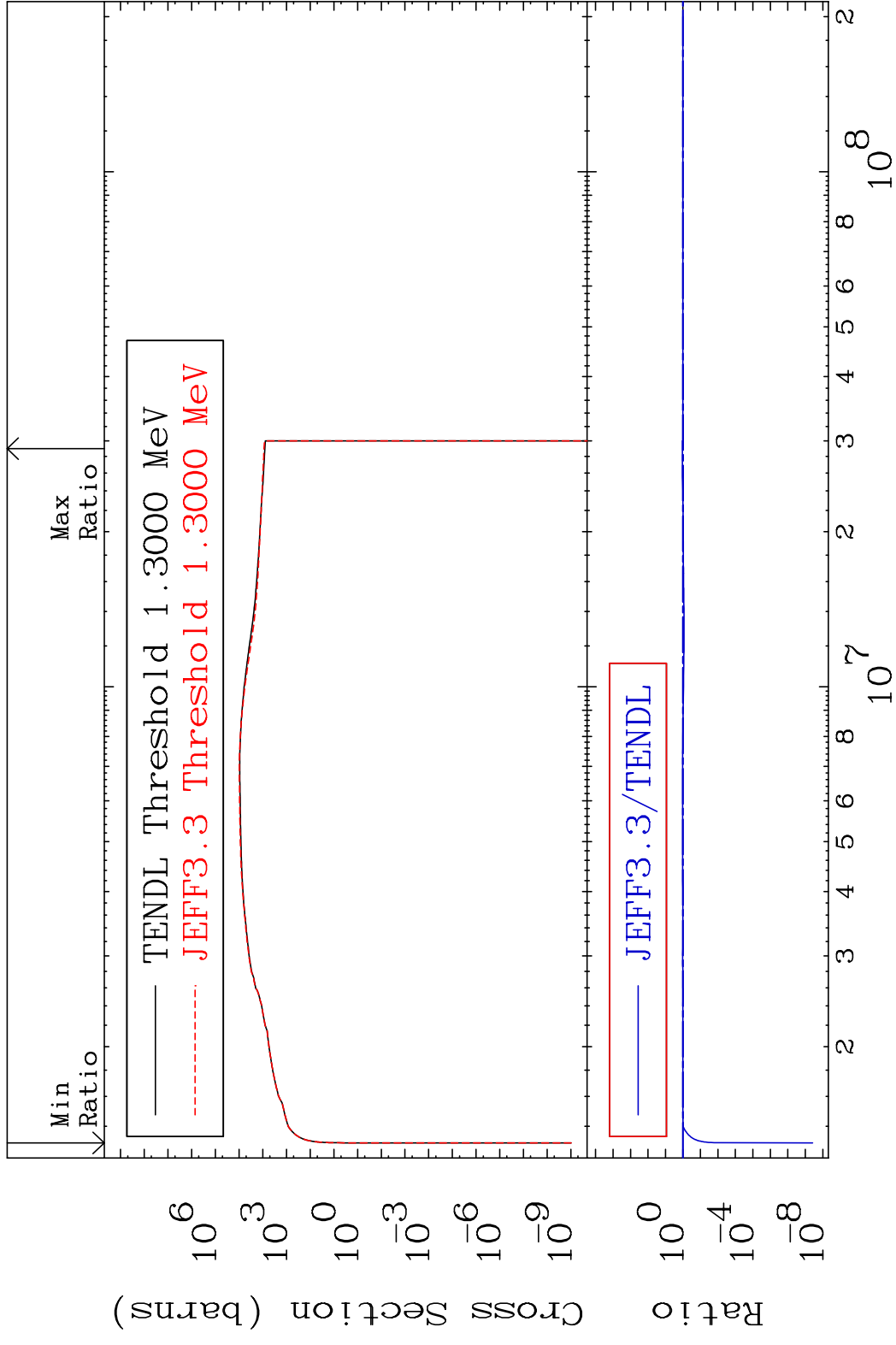
18-Ar-39

Cross Section -99.62 To 901.9 %

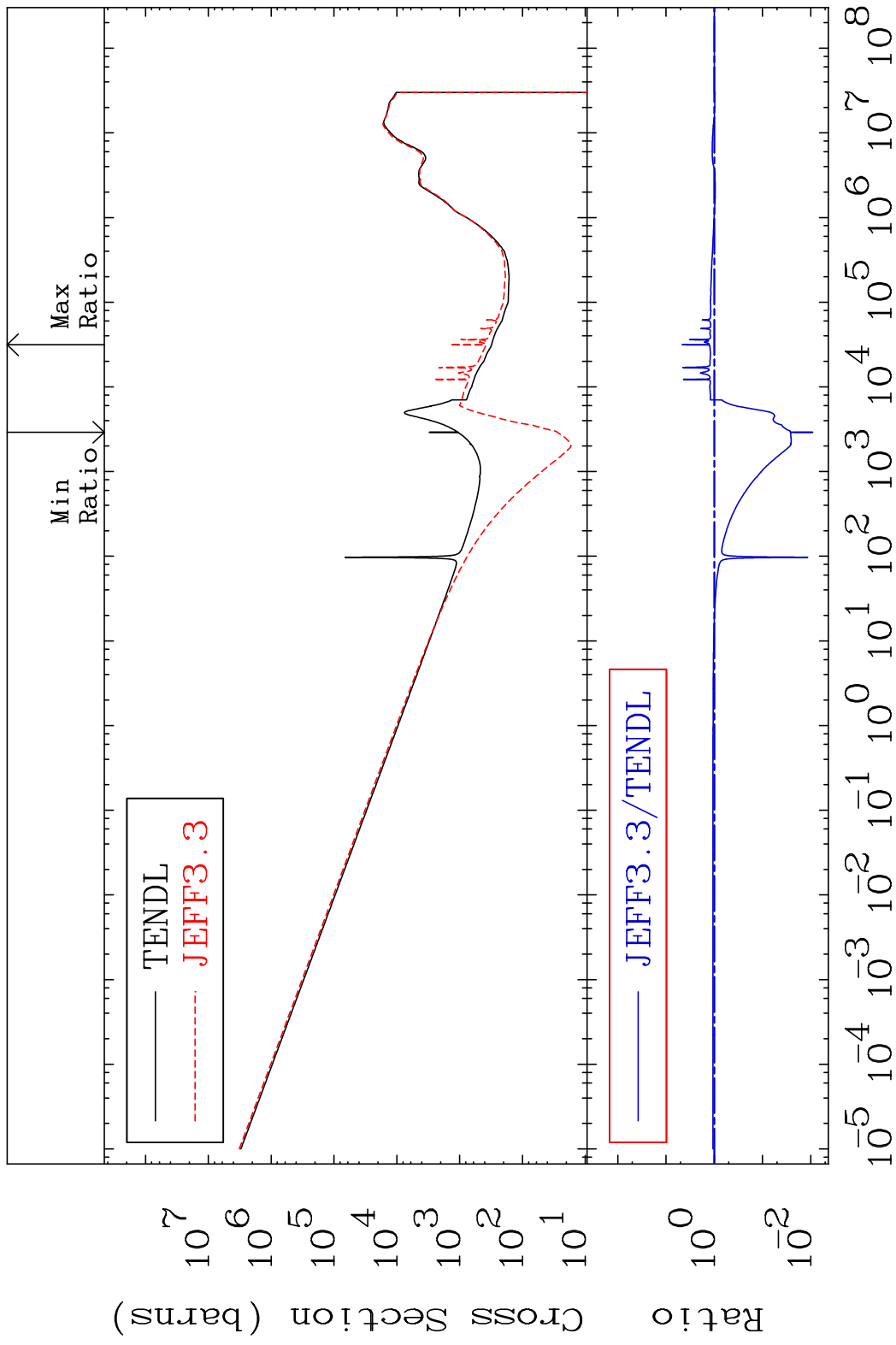




MAT 1834 Dpa inelastic (mt51-91) 18-Ar-39  
 Cross Section -100.0 To 8.218 %



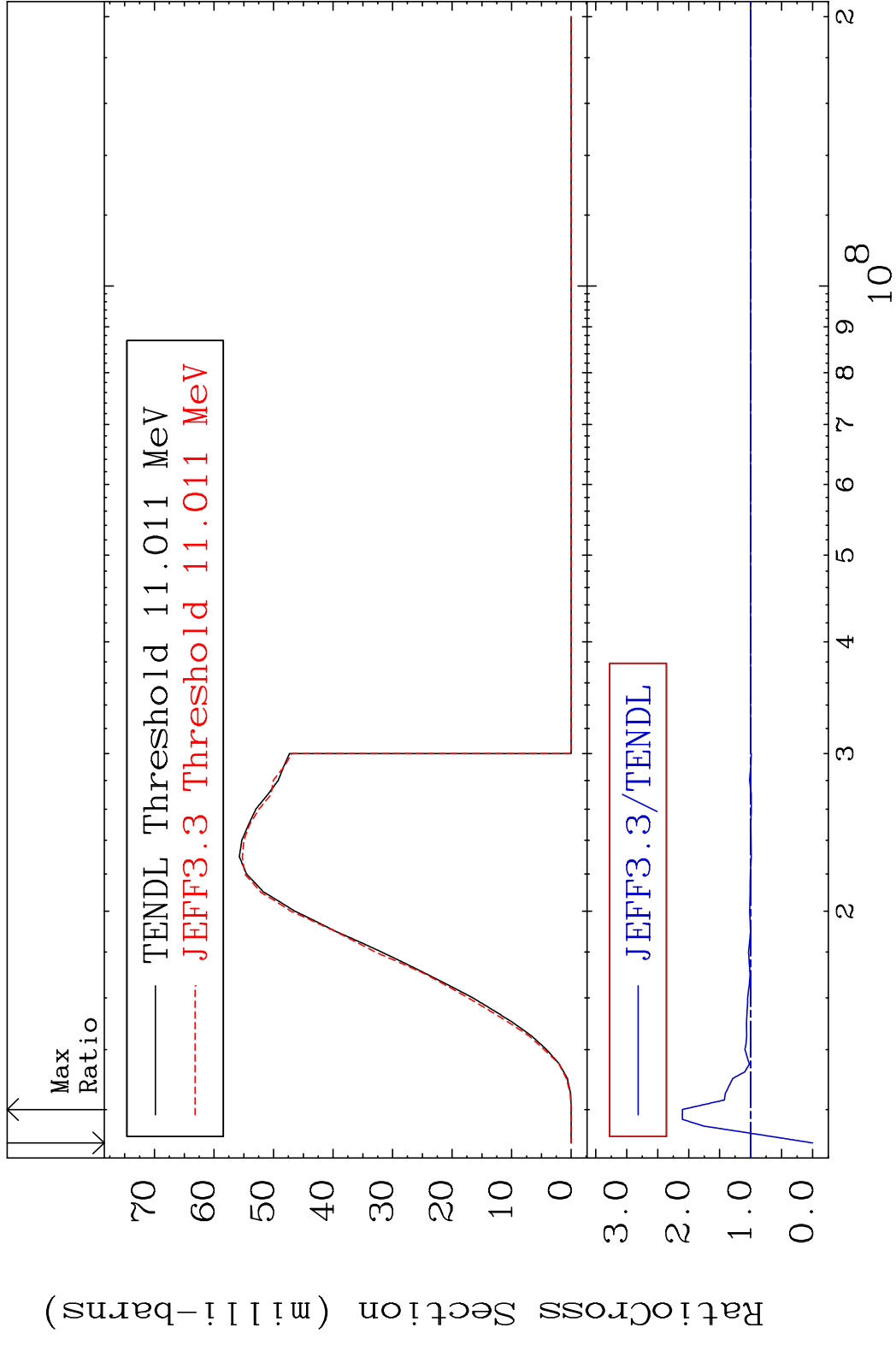
MAT 1834 Dpa disappearance (mt102 -120) 18-Ar-39  
 Cross Section -99.09 To 357.7 %

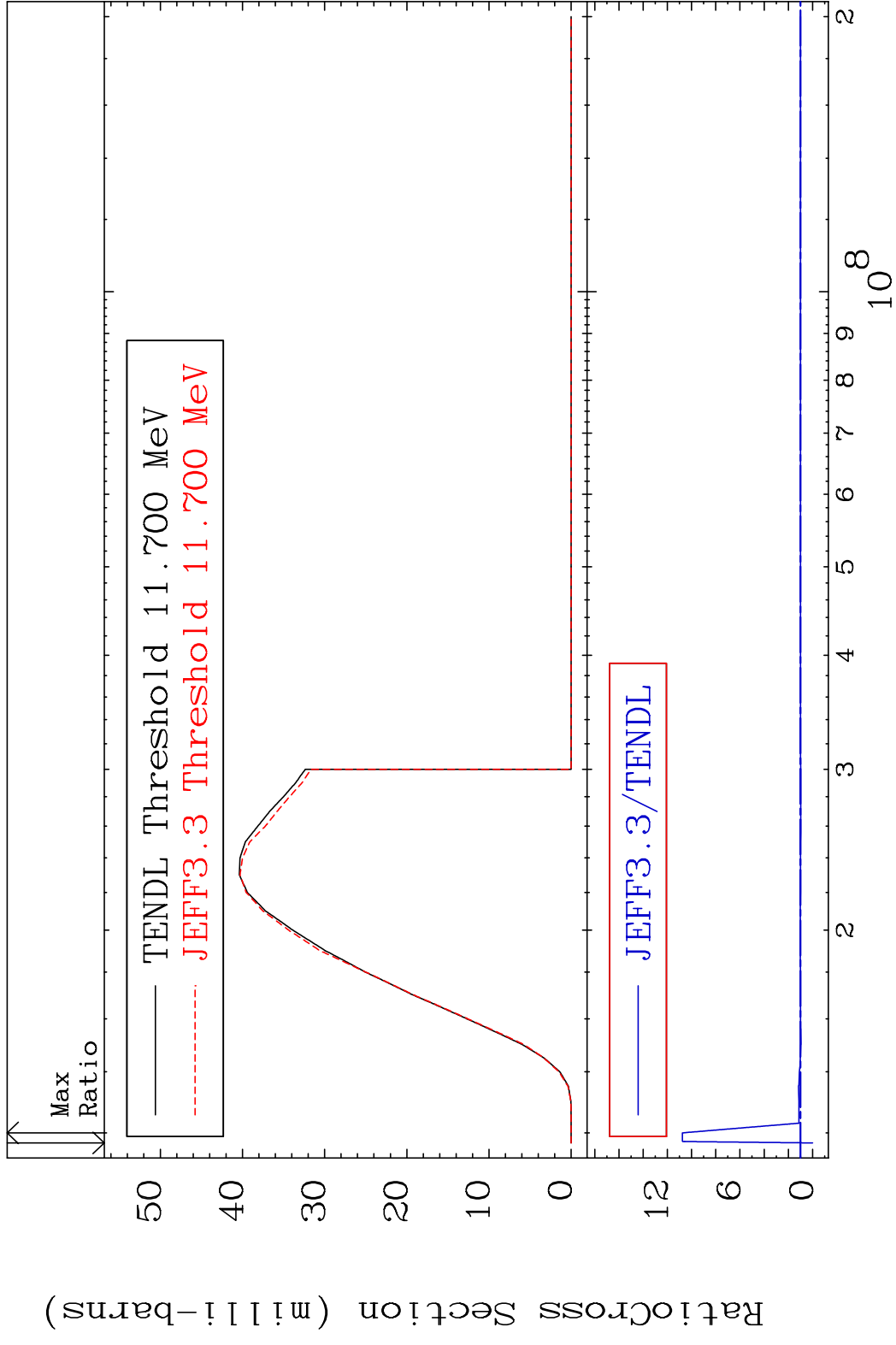


73

Incident Energy (eV)

18-Ar-39





MAT 1834 (n,d):17-Cl-38g 18-Ar-39  
 Radionuclide Production Cross Section Ratio 2.437 %

