

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

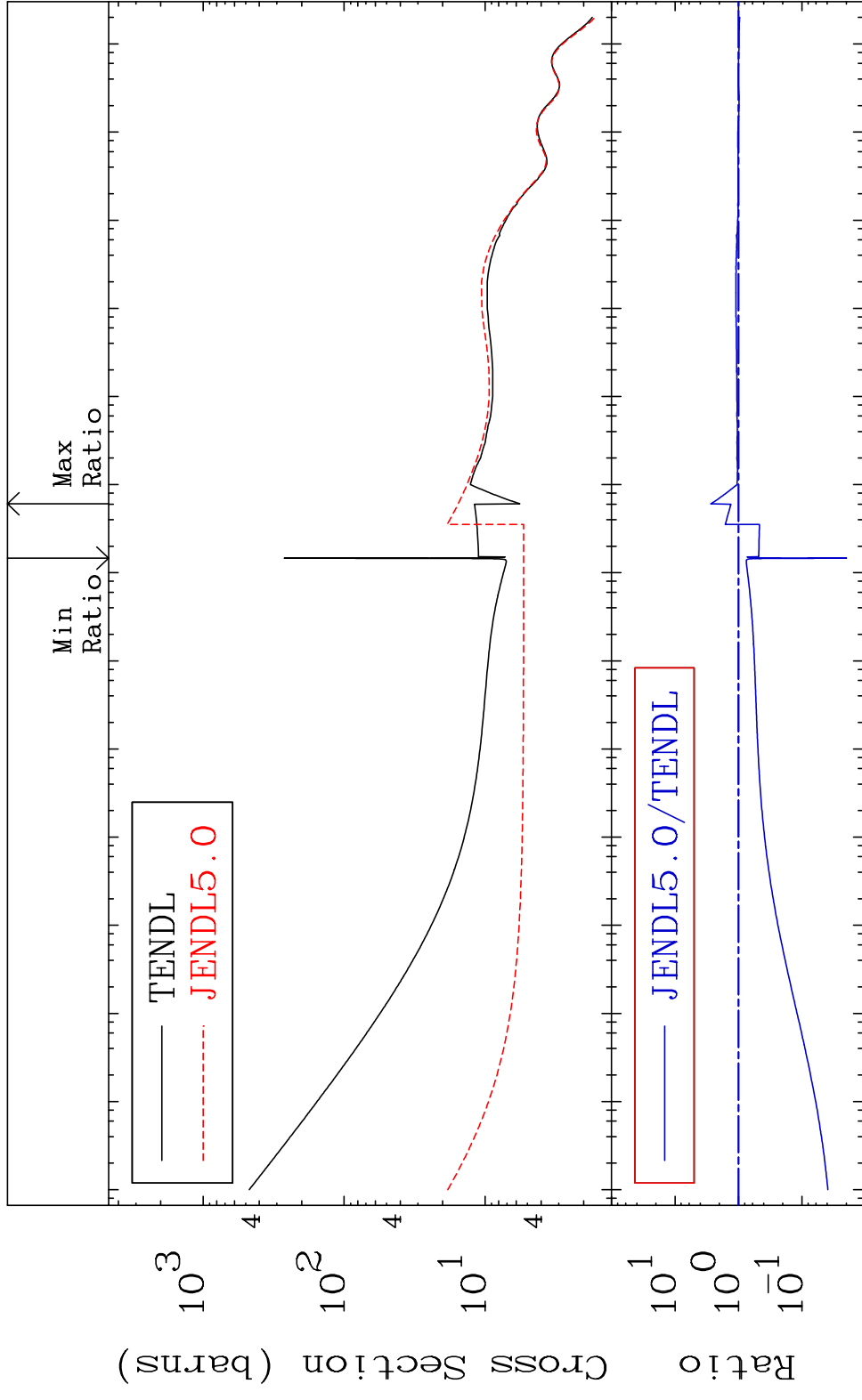
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 4619

Total Cross Section -98.00 To 173.8 %

46-Pd-100



1

Incident Energy (eV)

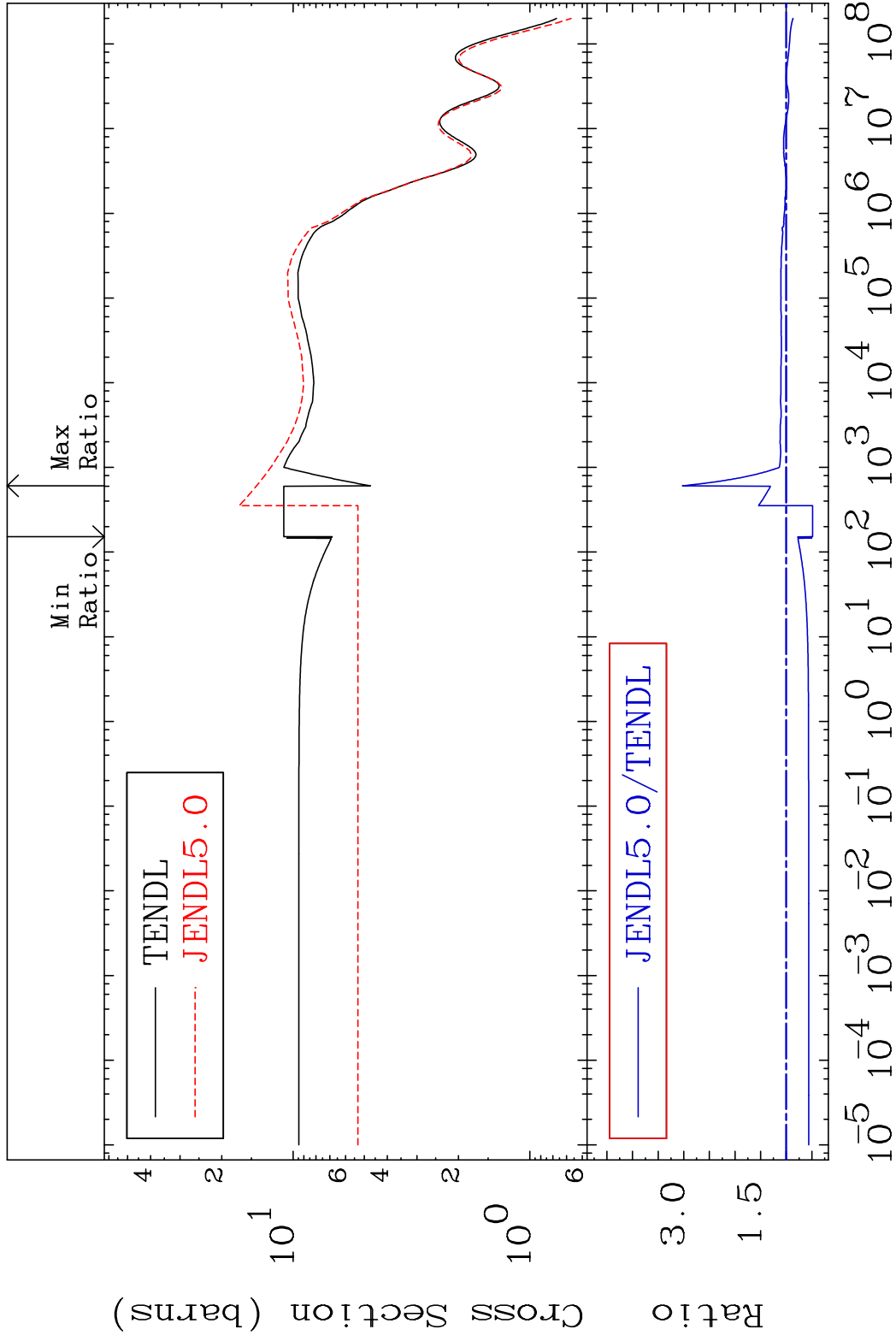
46-Pd-100

MAT 4619

Elastic

46-Pd-100

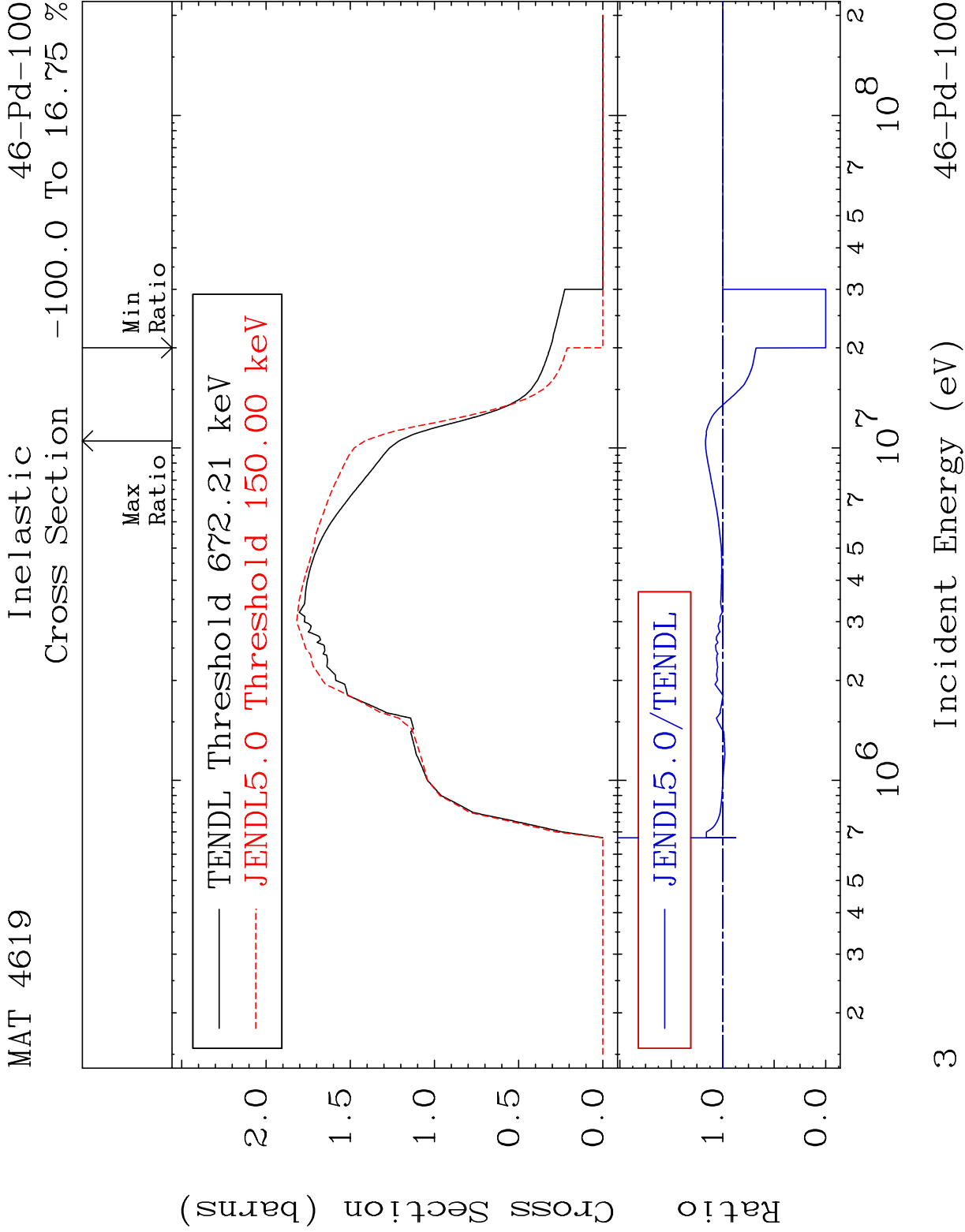
Cross Section -51.34 To 202.8 %



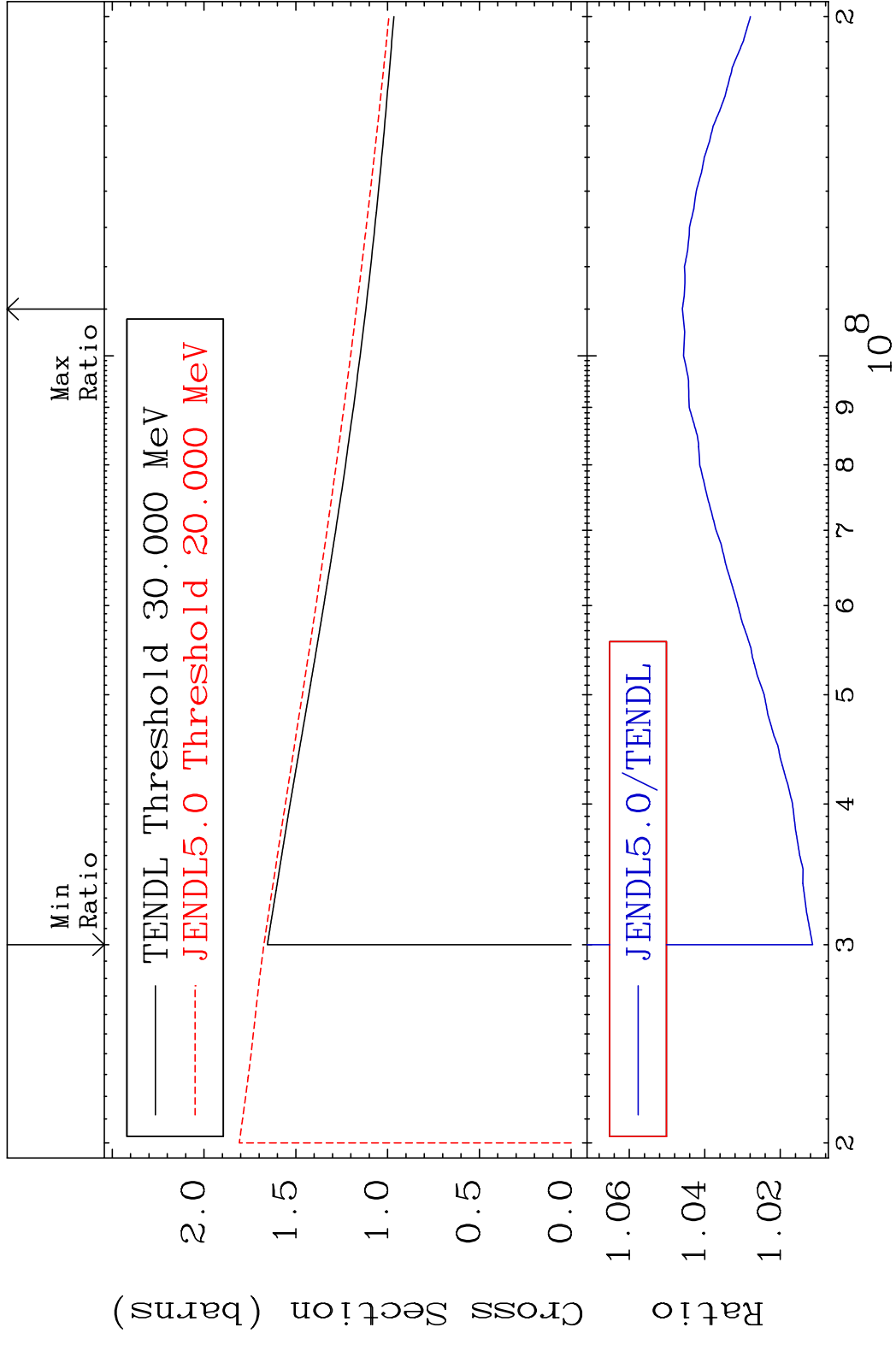
2

Incident Energy (eV)

46-Pd-100

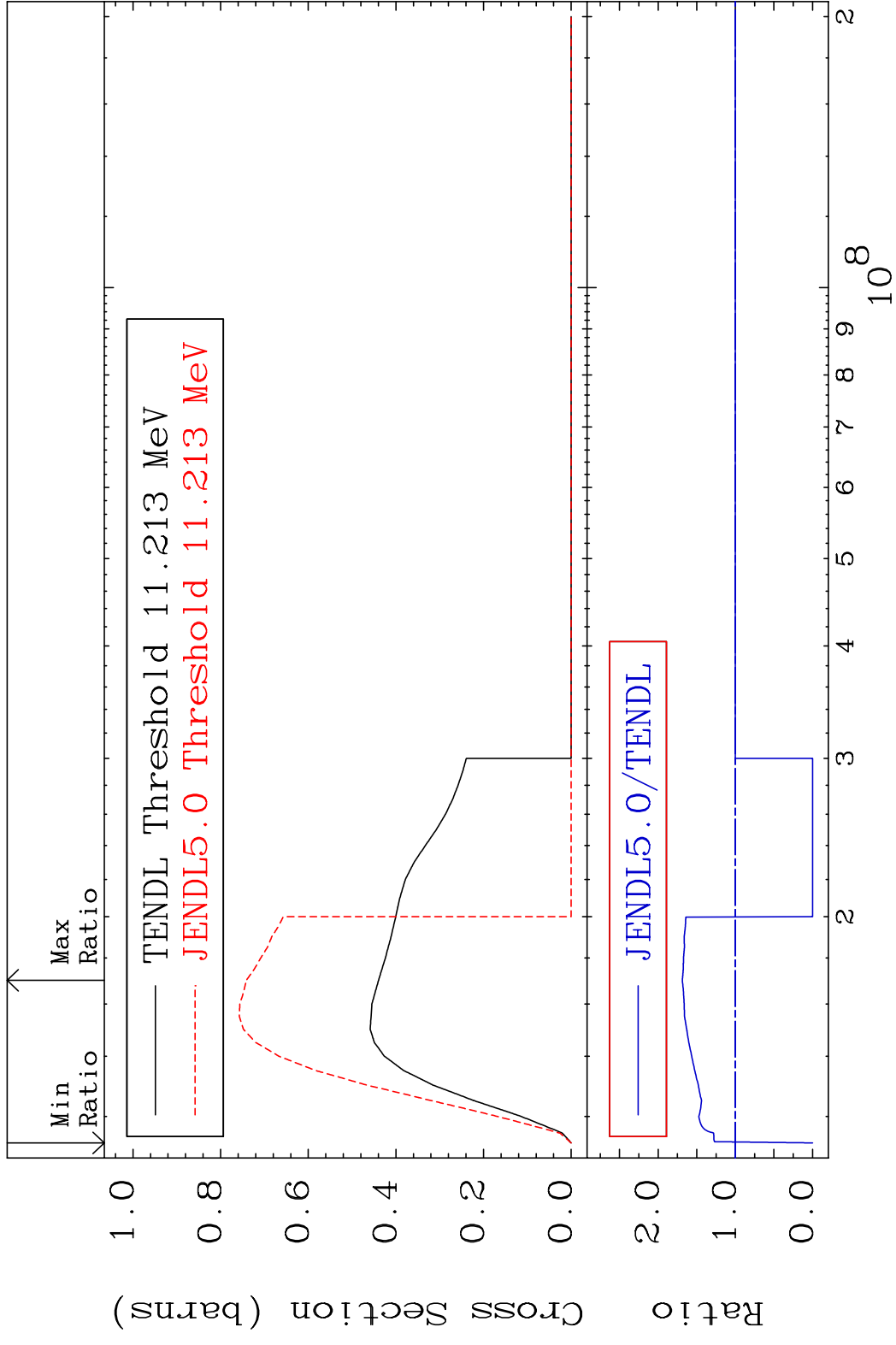


MAT 4619 (n, remainder) 46-Pd-100  
 Cross Section 1.145 To 4.595 %

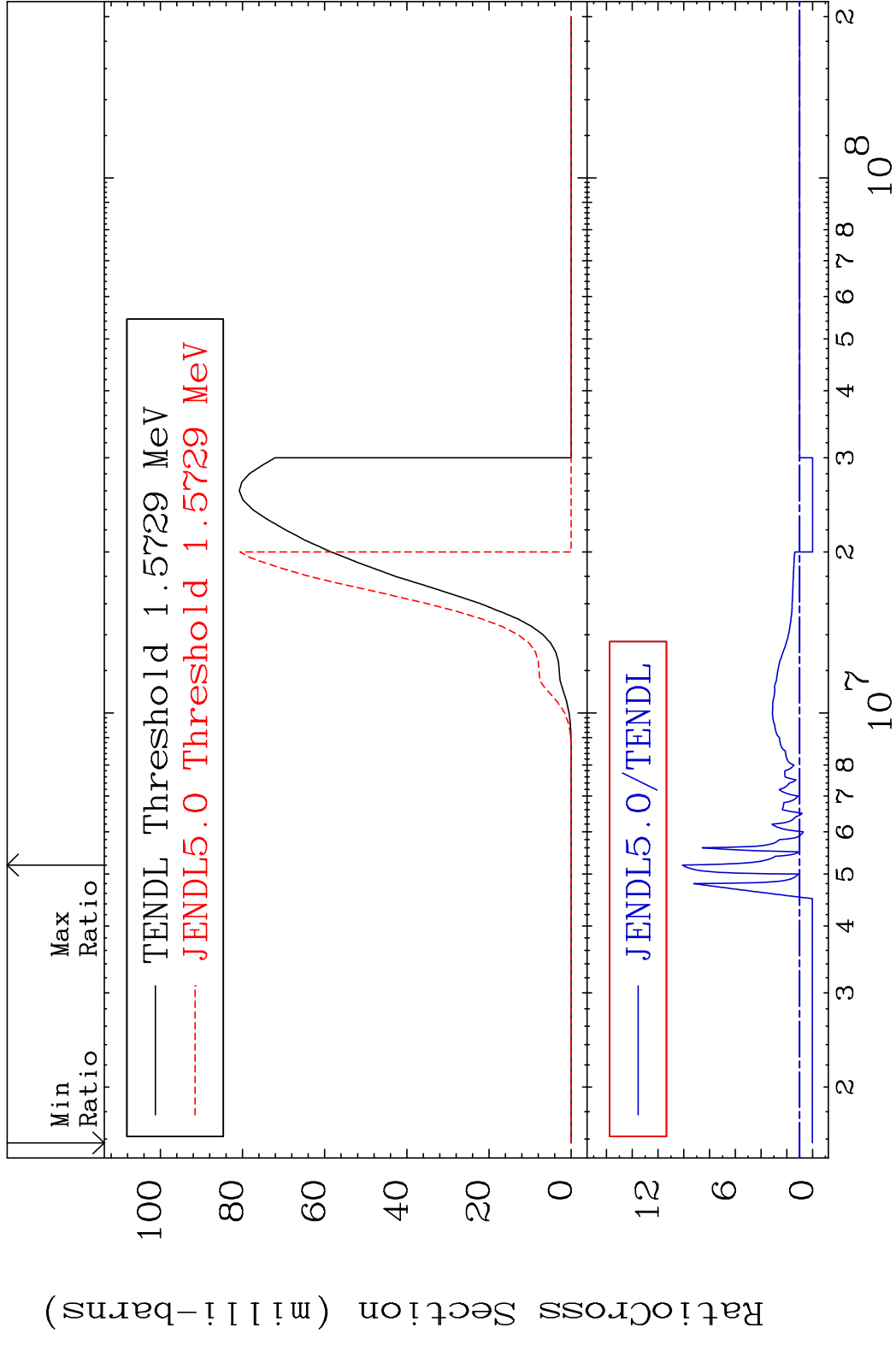


4 Incident Energy (eV) 46-Pd-100

MAT 4619 (n,2n) 46-Pd-100  
 Cross Section -100.0 To 68.63 %

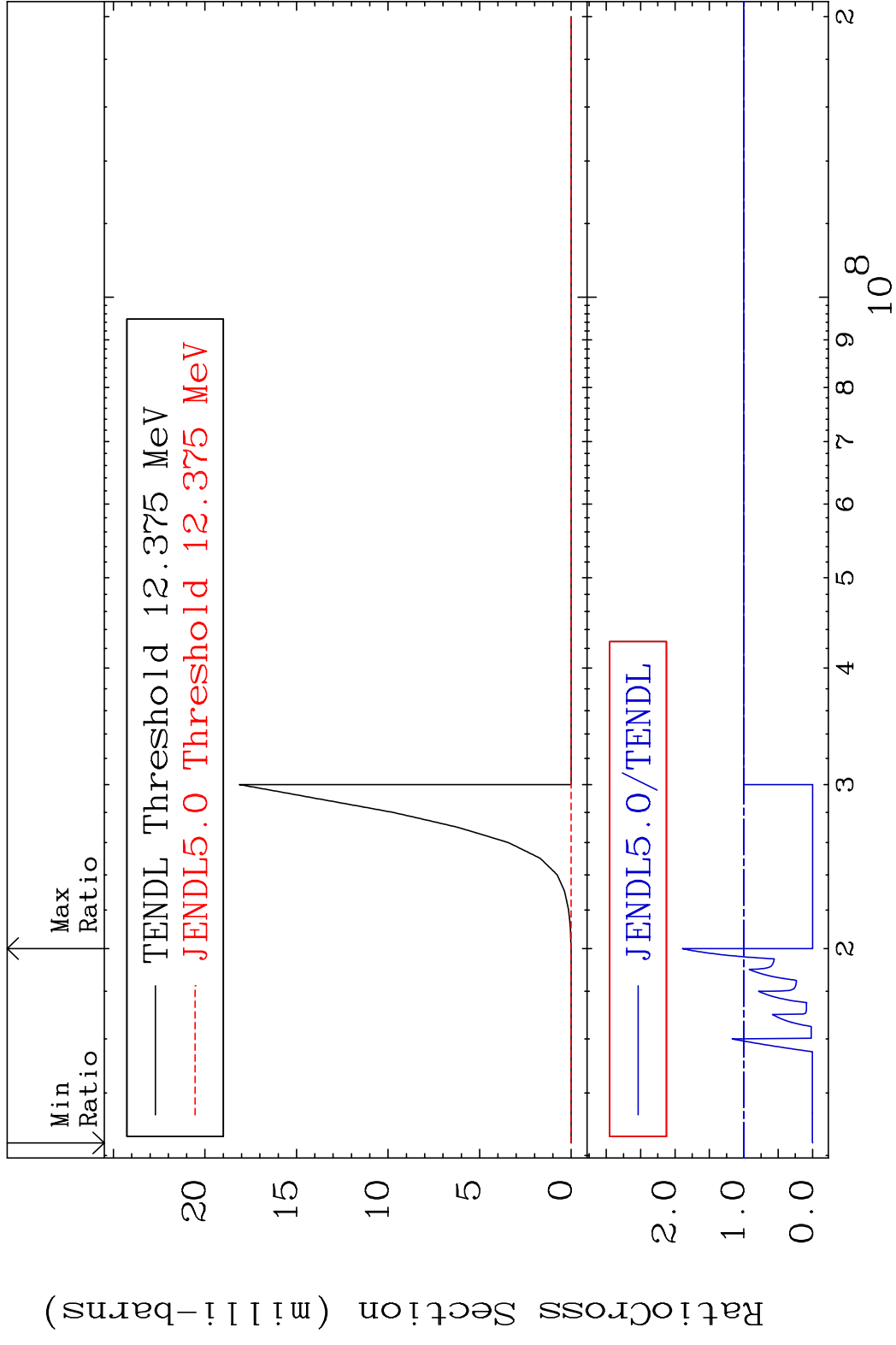


MAT 4619 (n, n')  $\alpha$  46-Pd-100  
 Cross Section -100.0 To 911.1 %



6 46-Pd-100

MAT 4619 (n,2n)  $\alpha$  46-Pd-100  
 Cross Section -100.0 To 89.35 %



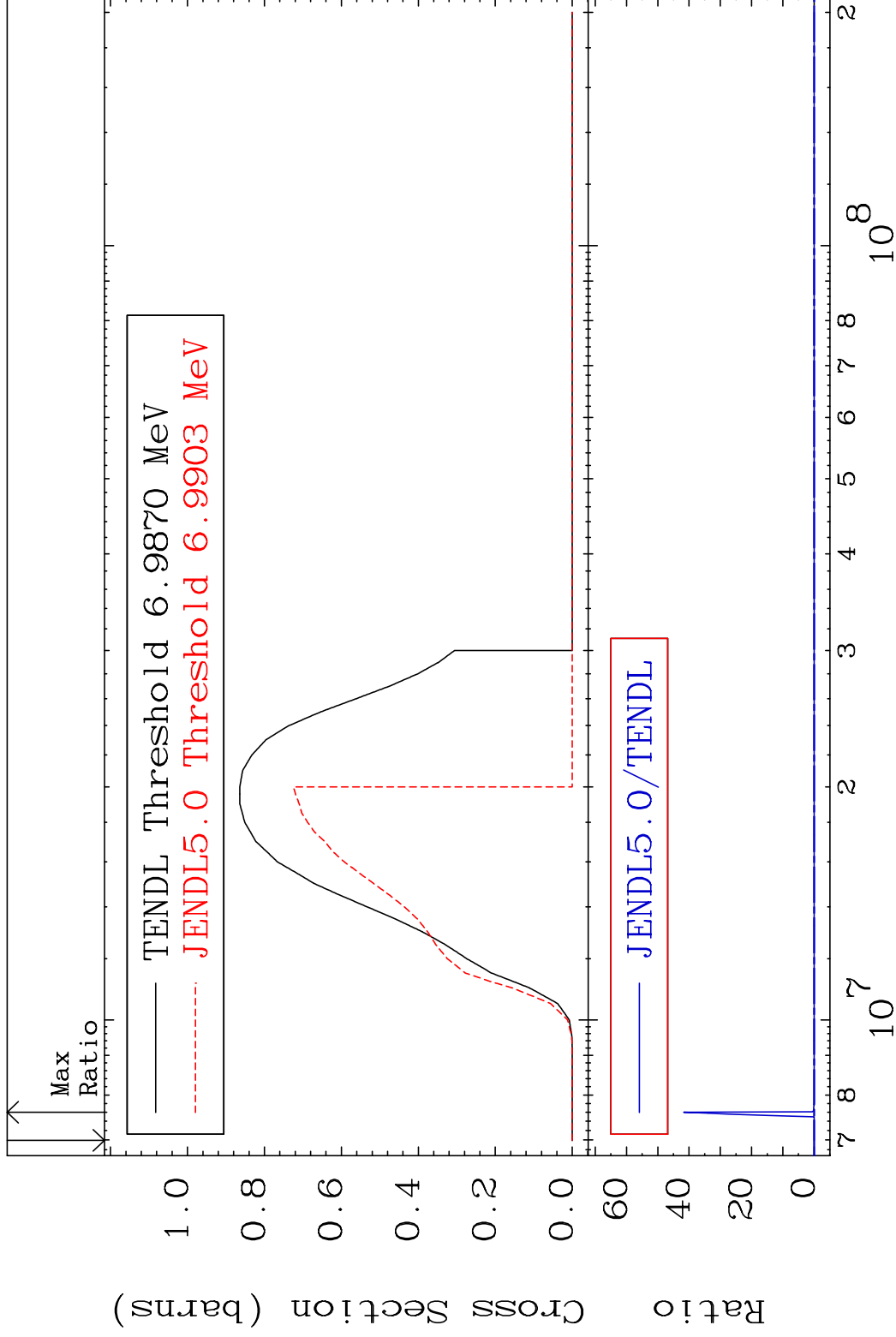


MAT 4619

(n, n') p

46-Pd-100

Cross Section -100.0 To 9999. %

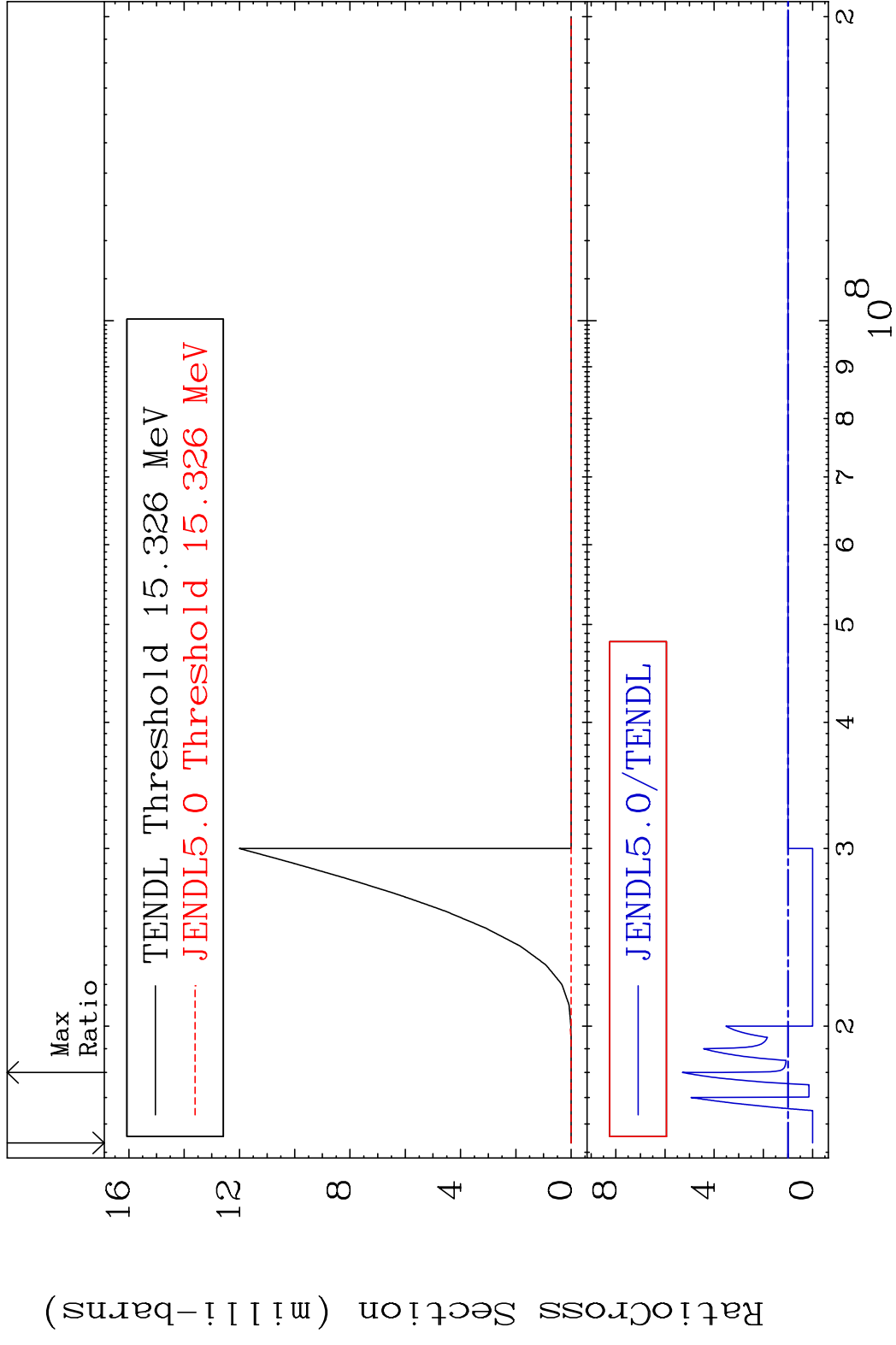


8

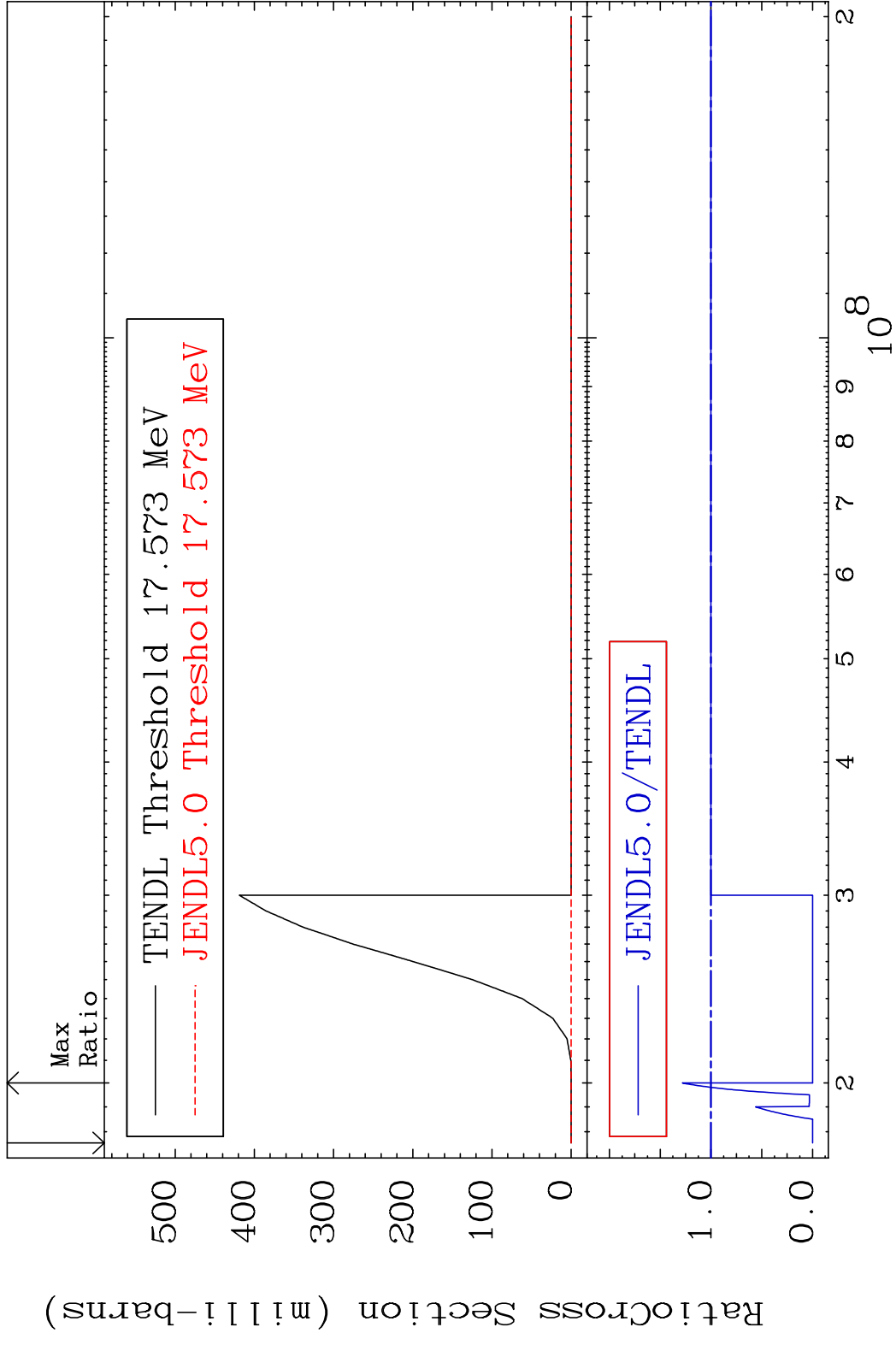
Incident Energy (eV)

46-Pd-100

MAT 4619 (n, n') d 46-Pd-100  
 Cross Section -100.0 To 429.3 %

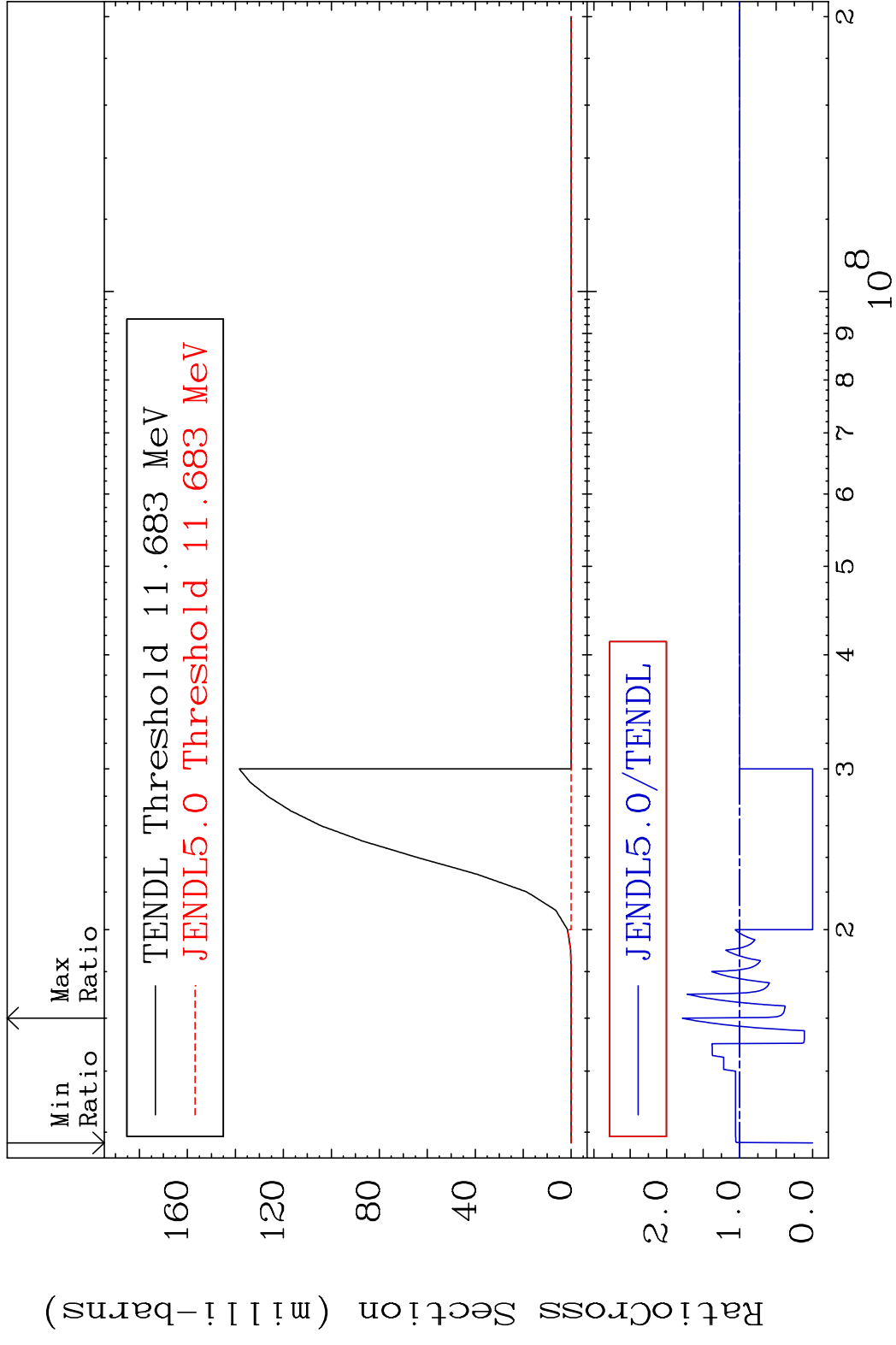


MAT 4619 (n,2n) p 46-Pd-100  
 Cross Section -100.0 To 28.17 %



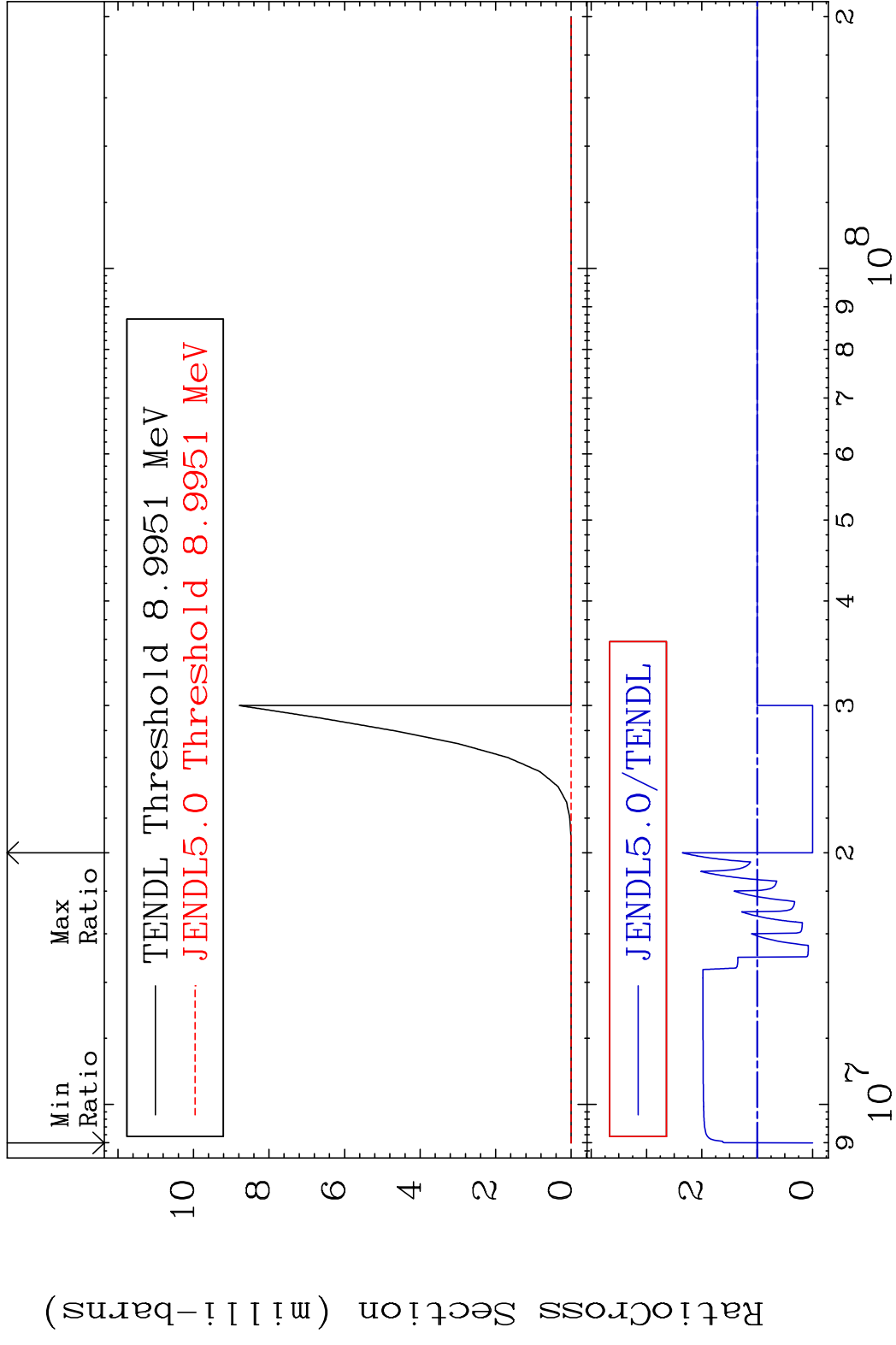
10 2 3 4 5 6 7 8 9 10<sup>8</sup> 2 46-Pd-100

MAT 4619 (n,2n) p 46-Pd-100  
 Cross Section -100.0 To 78.56 %



MAT 4619

(n,n') p  $\alpha$  46-Pd-100  
Cross Section -100.0 To 135.2 %

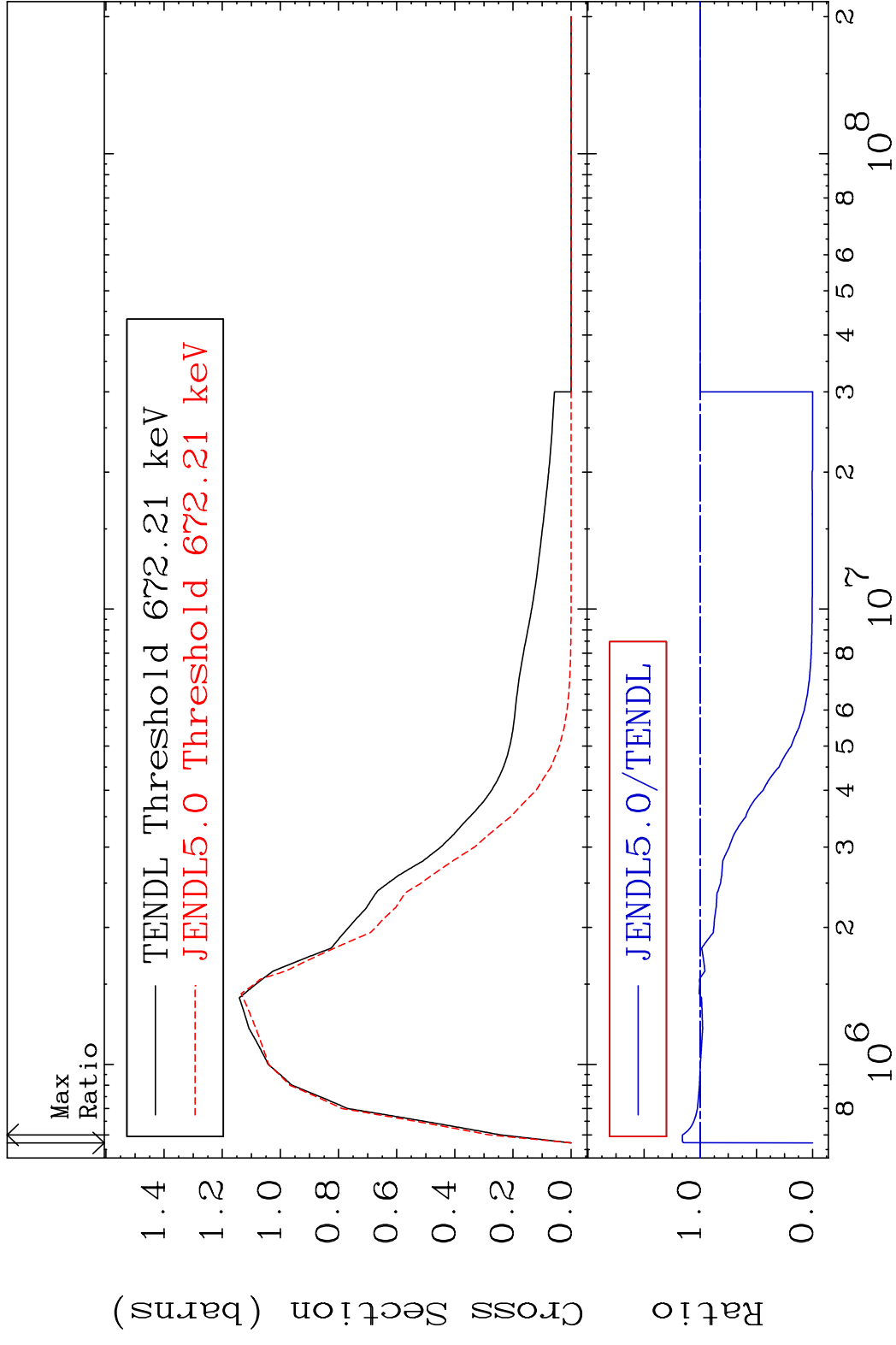


12

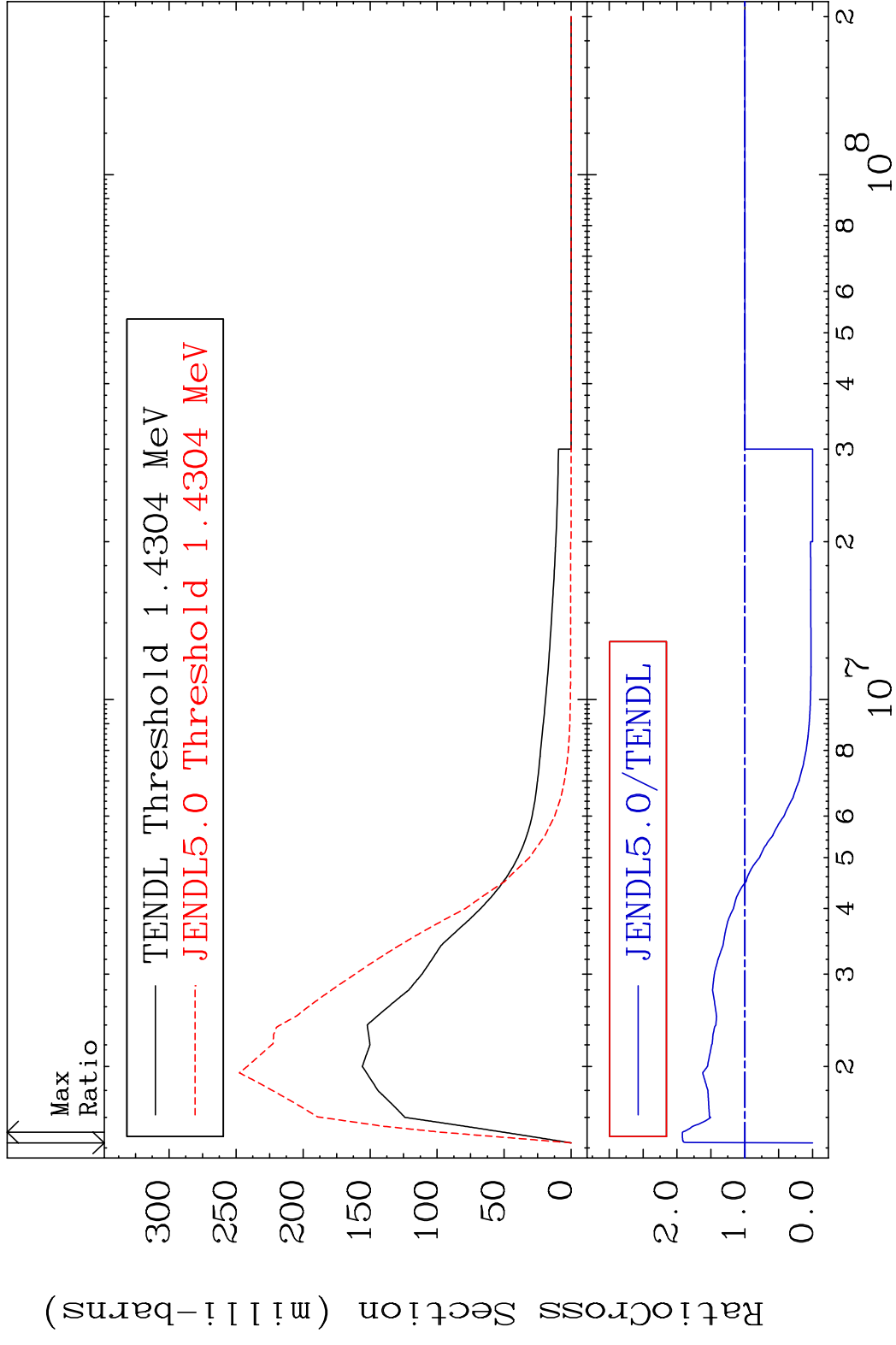
Incident Energy (eV)

46-Pd-100

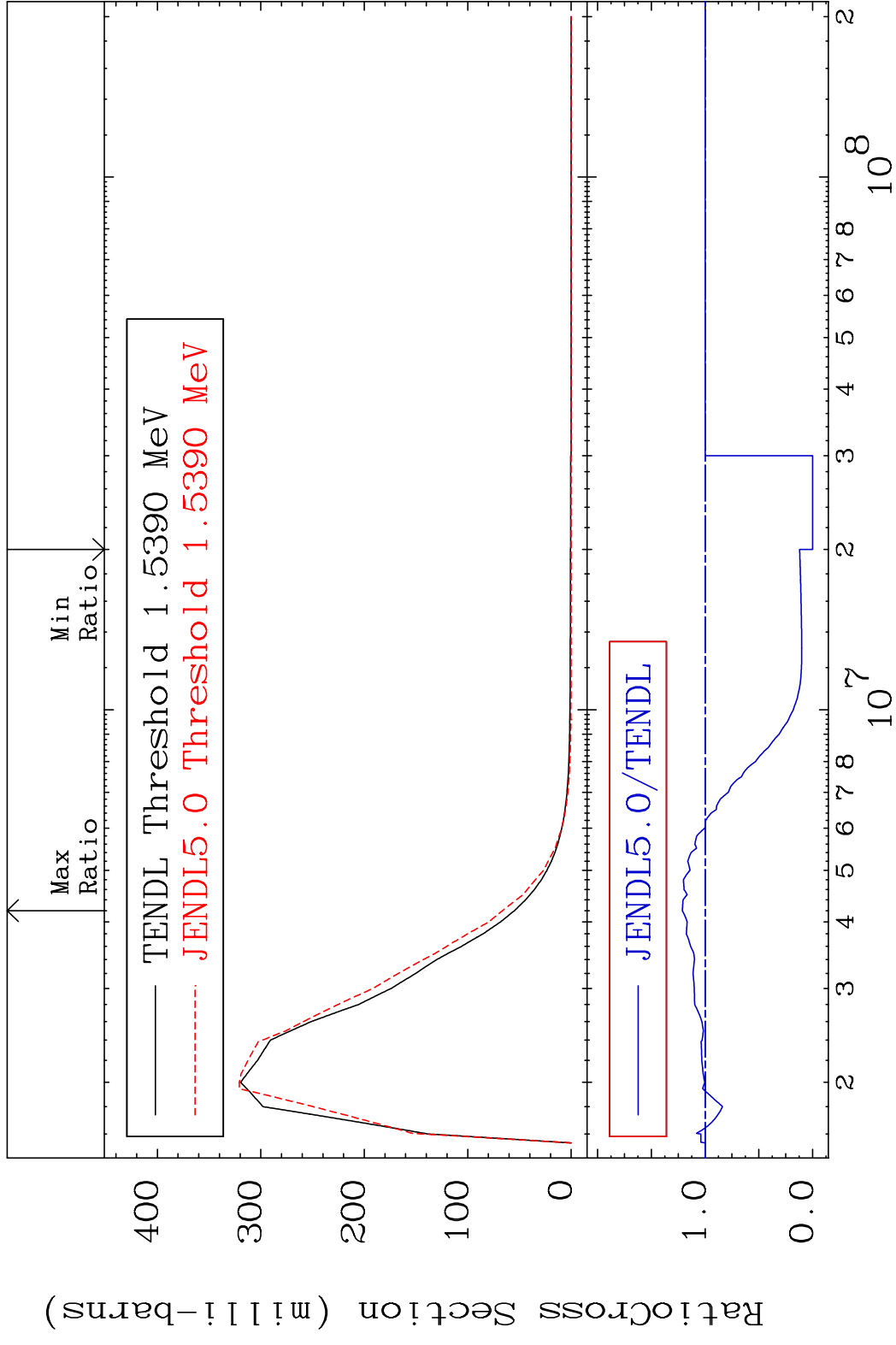
MAT 4619 MT= 51 (n,n') Level 46-Pd-100  
 Cross Section -100.0 To 15.91 %



MAT 4619 MT= 52 (n, n') Level 46-Pd-100  
 Cross Section -100.0 To 92.10 %

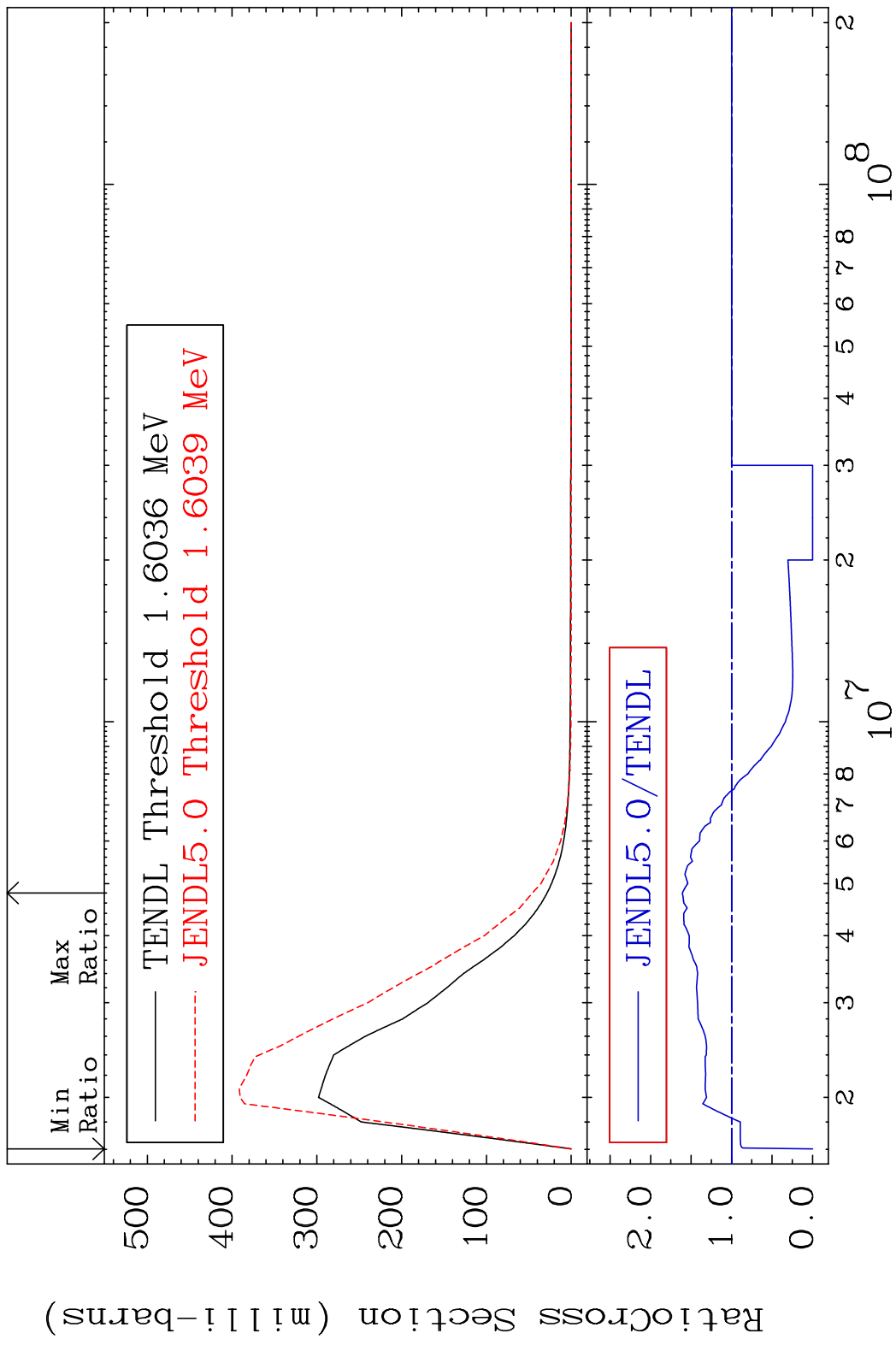


MAT 4619 MT= 53 (n, n') Level 46-Pd-100  
 Cross Section -100.0 To 21.16 %

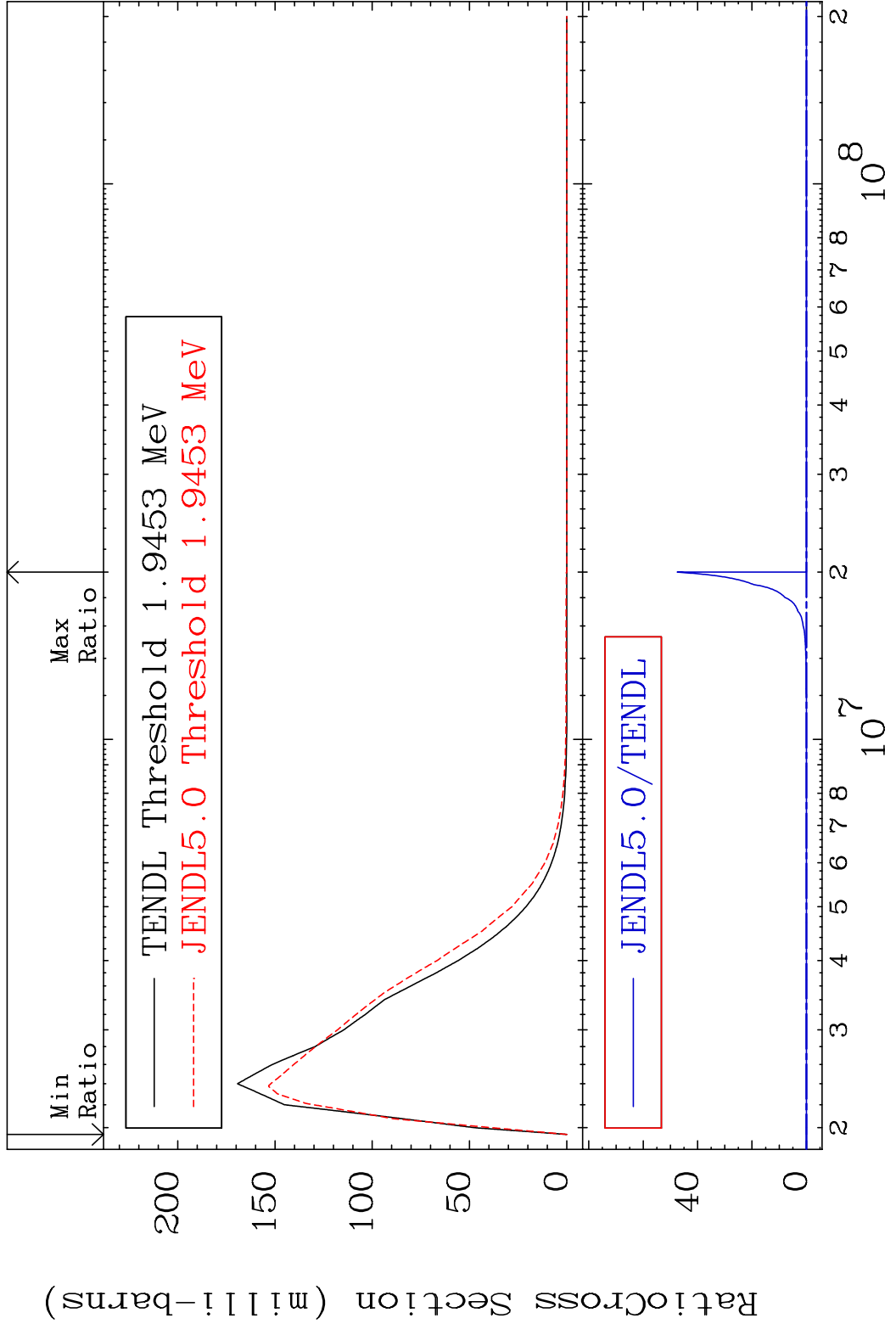




MAT 4619      MT= 54 (n,n') Level      46-Pd-100  
 Cross Section    -100.0 To 60.80 %

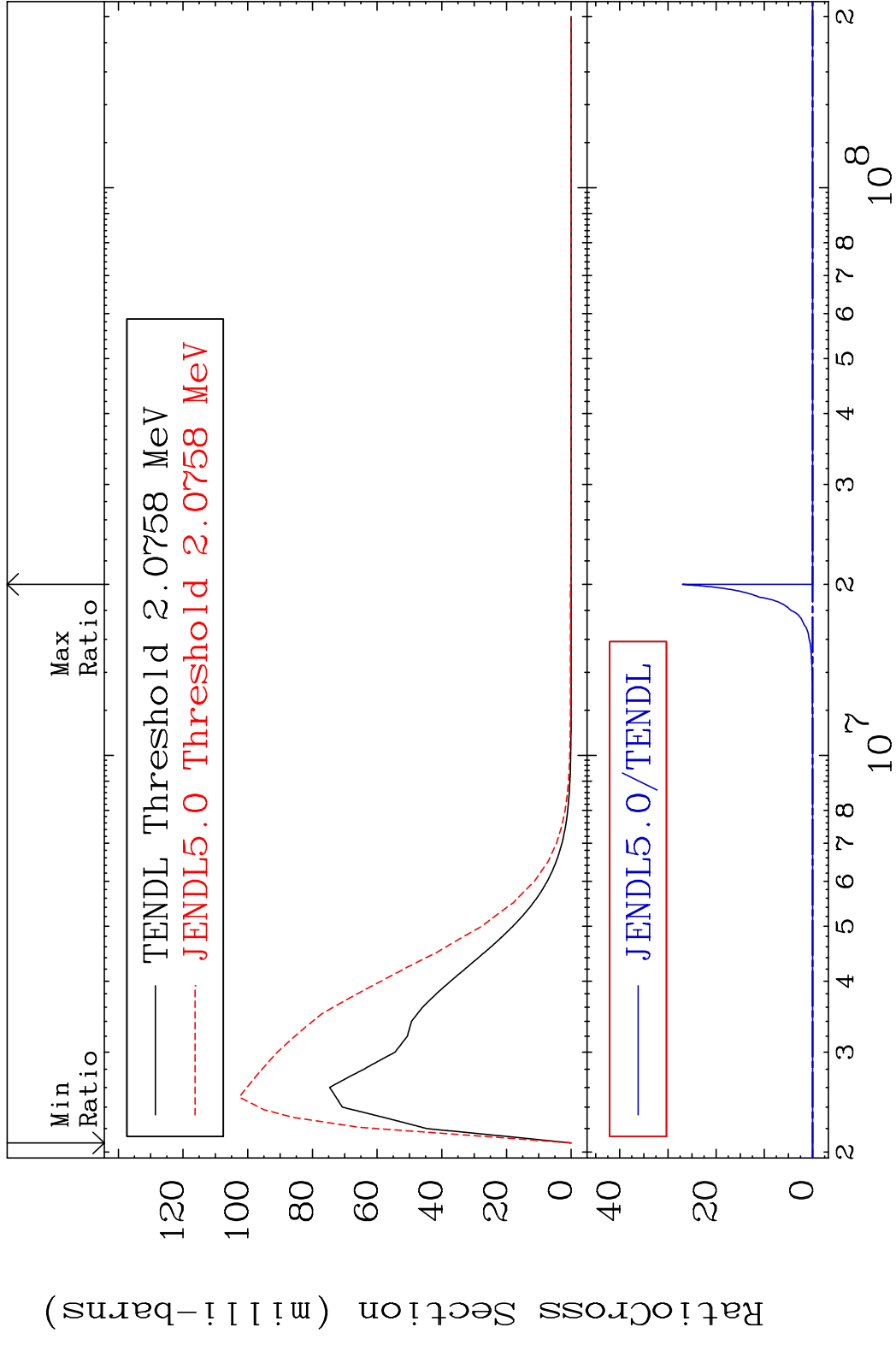


MAT 4619 MT= 55 (n, n') Level 46-Pd-100  
 Cross Section -100.0 To 9999. %

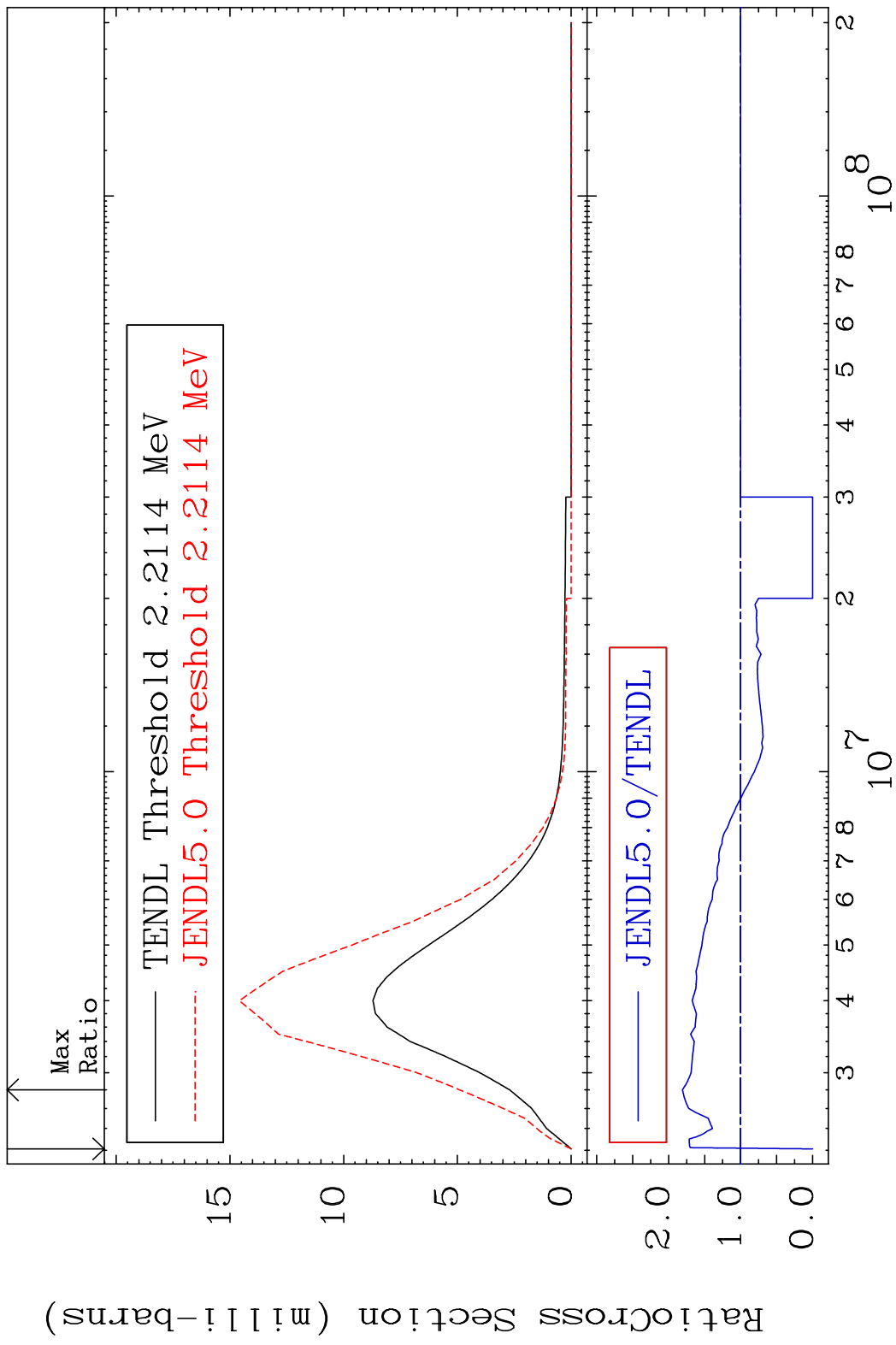


17 46-Pd-100

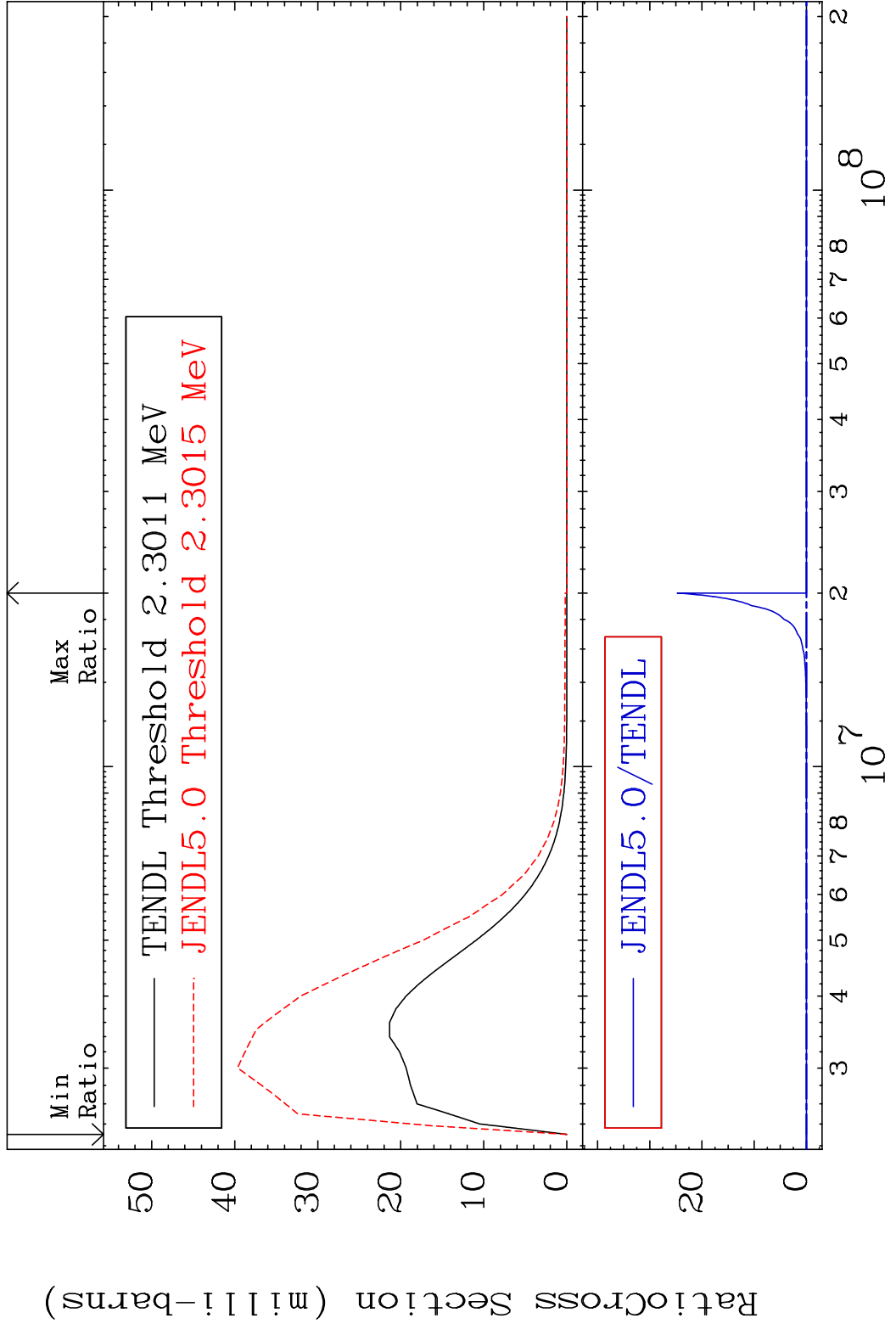
MAT 4619 MT= 56 (n, n') Level 46-Pd-100  
 Cross Section -100.0 To 9999. %



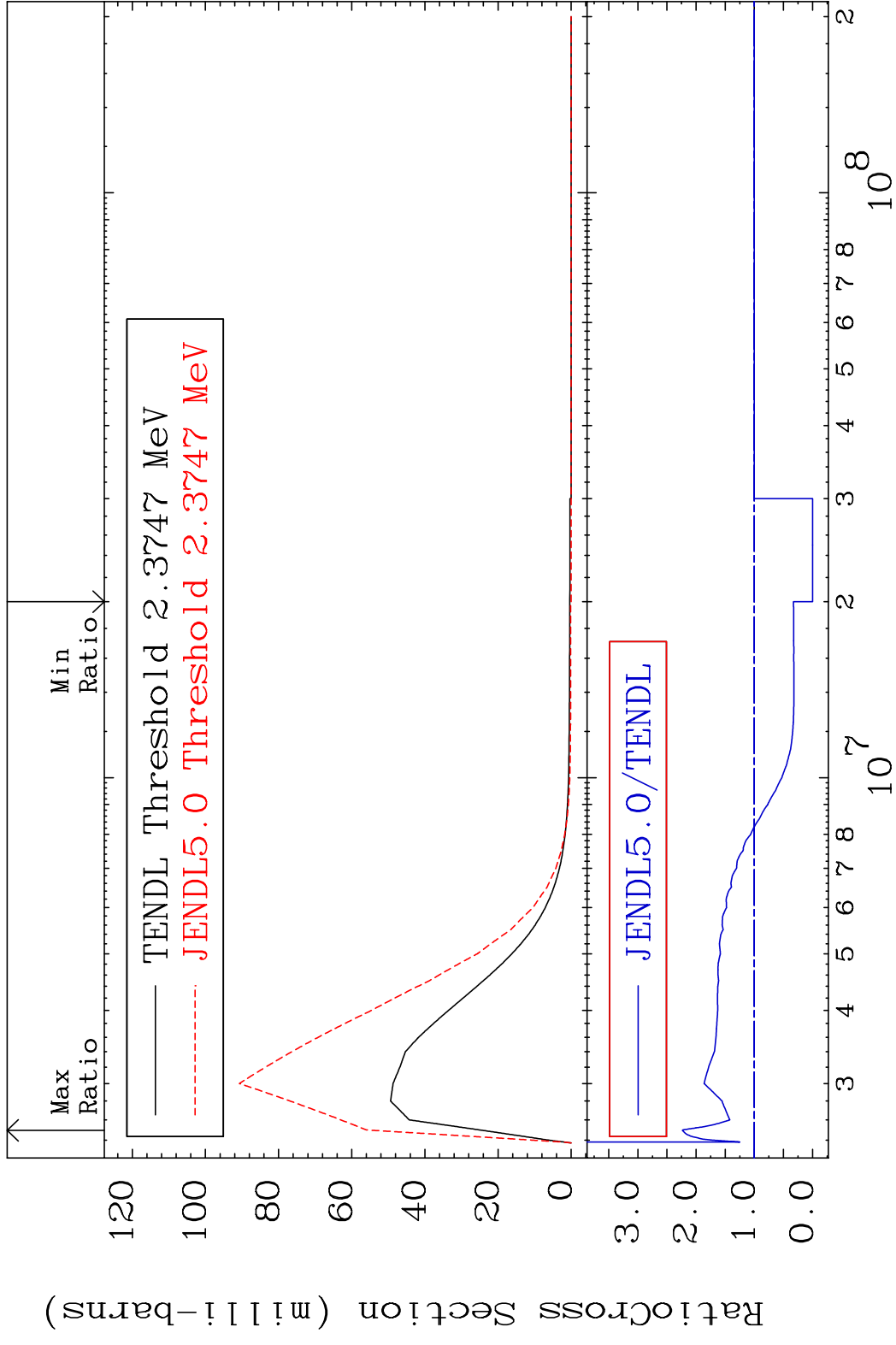
MAT 4619 MT= 57 (n,n') Level 46-Pd-100  
 Cross Section -100.0 To 81.00 %



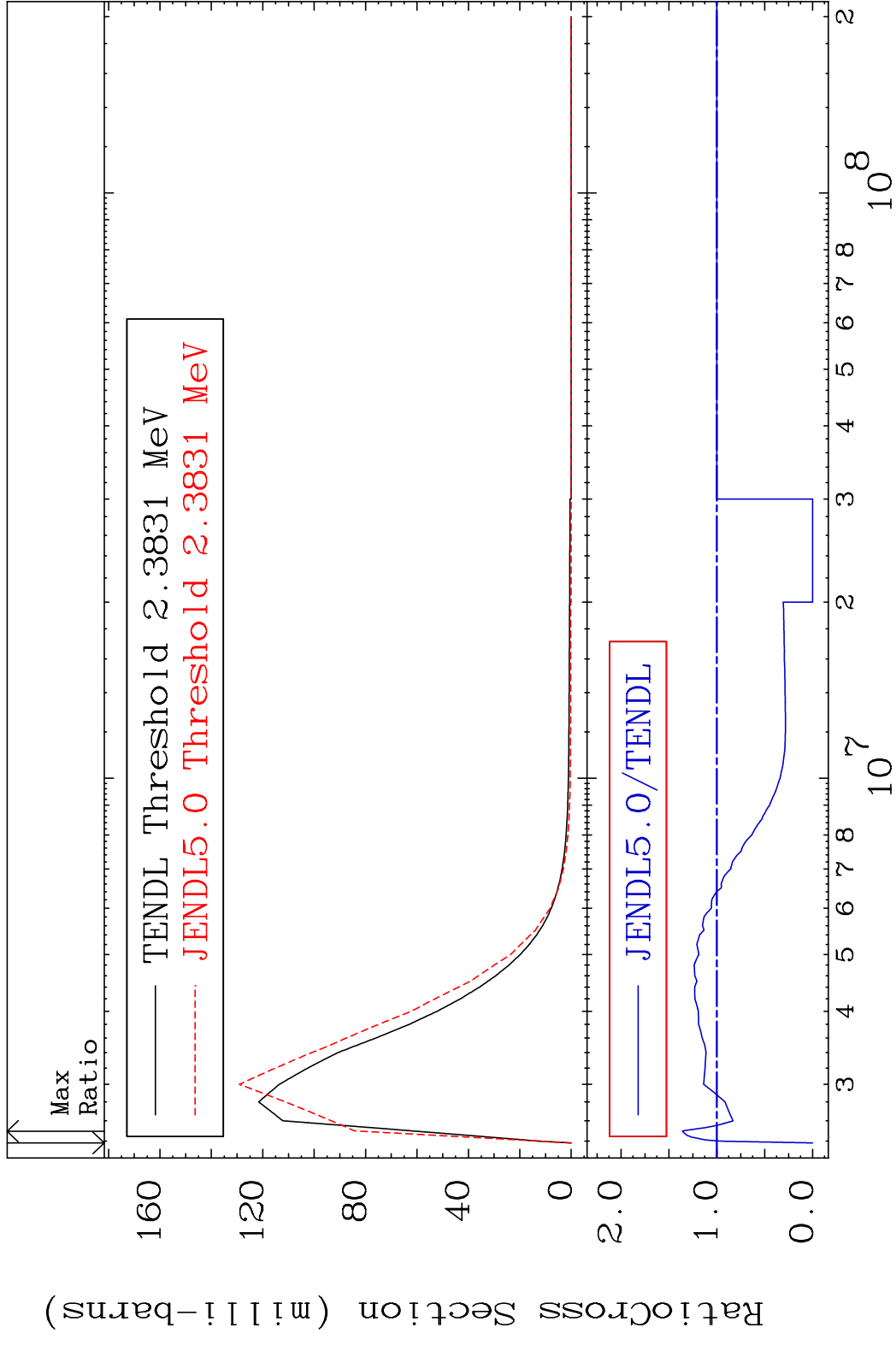
MAT 4619 MT= 58 (n, n') Level 46-Pd-100  
 Cross Section -100.0 To 9999. %



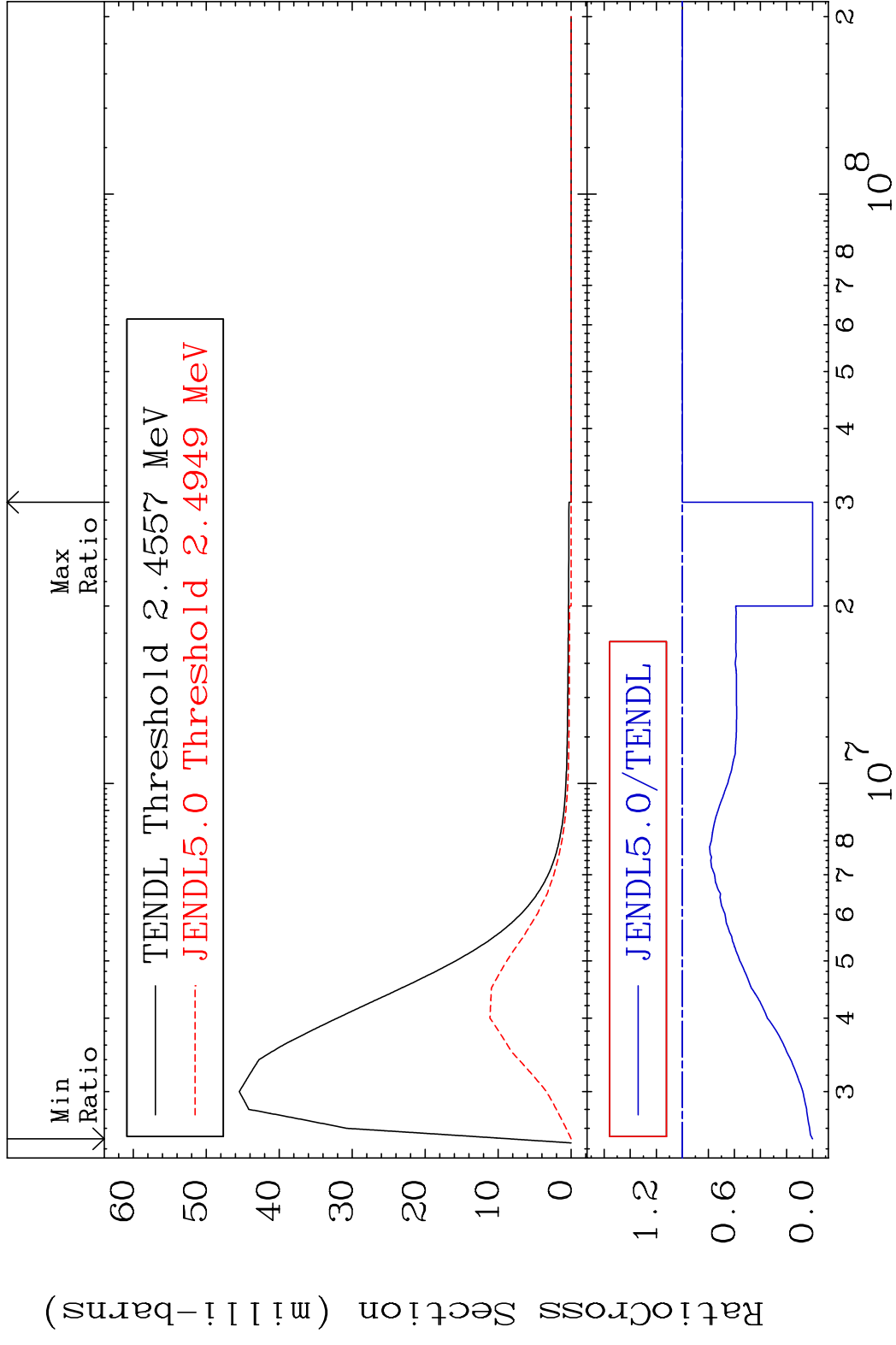
MAT 4619 MT= 59 (n,n') Level 46-Pd-100  
 Cross Section -100.0 To 123.6 %



MAT 4619 MT= 60 (n,n') Level 46-Pd-100  
 Cross Section -100.0 To 35.95 %

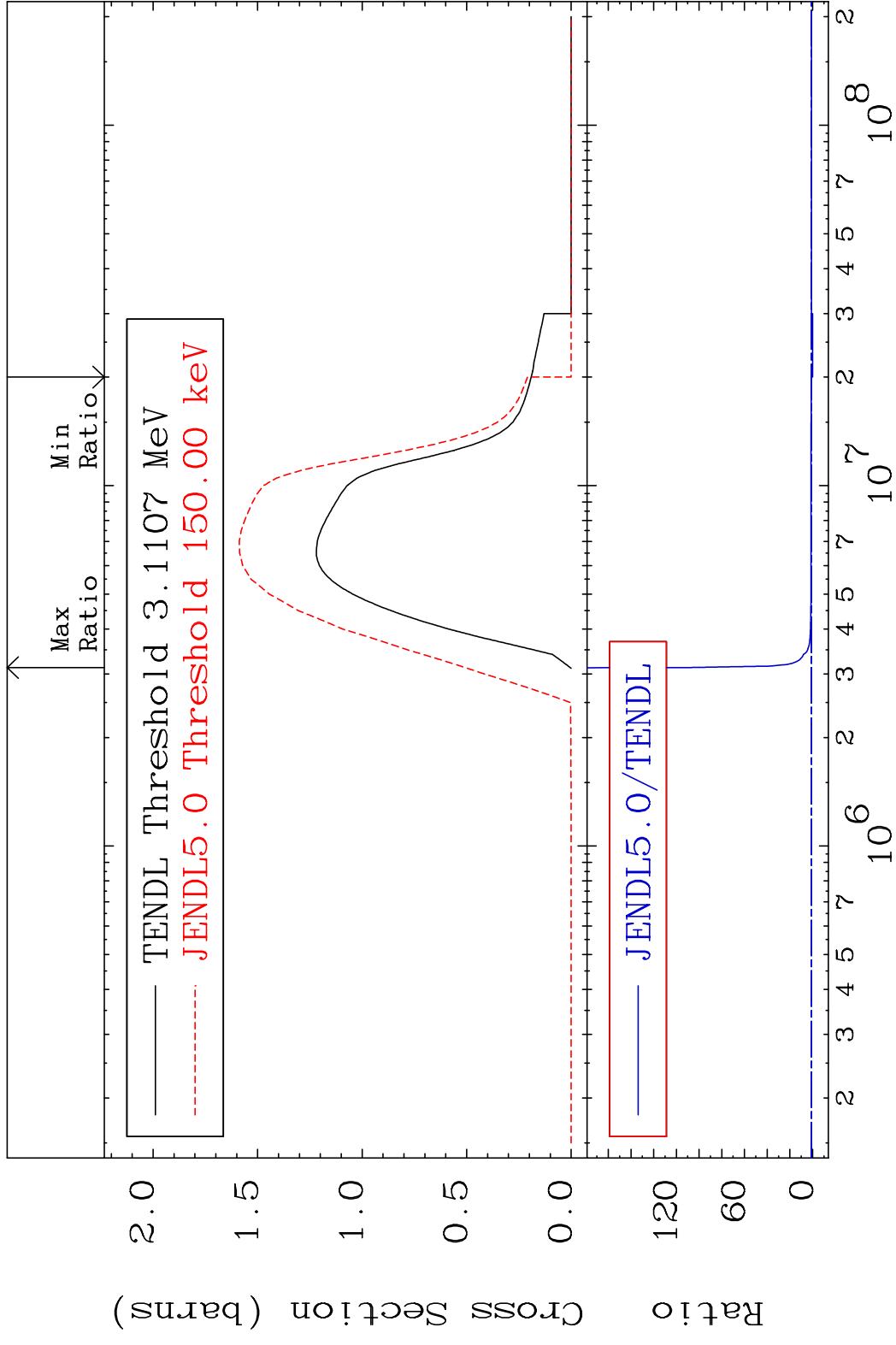


MAT 4619 MT= 61 (n, n') Level 46-Pd-100  
 Cross Section -100.0 To 0.000 %





MAT 4619 (n,n') Continuum 46-Pd-100  
 Cross Section -100.0 To 9999. %

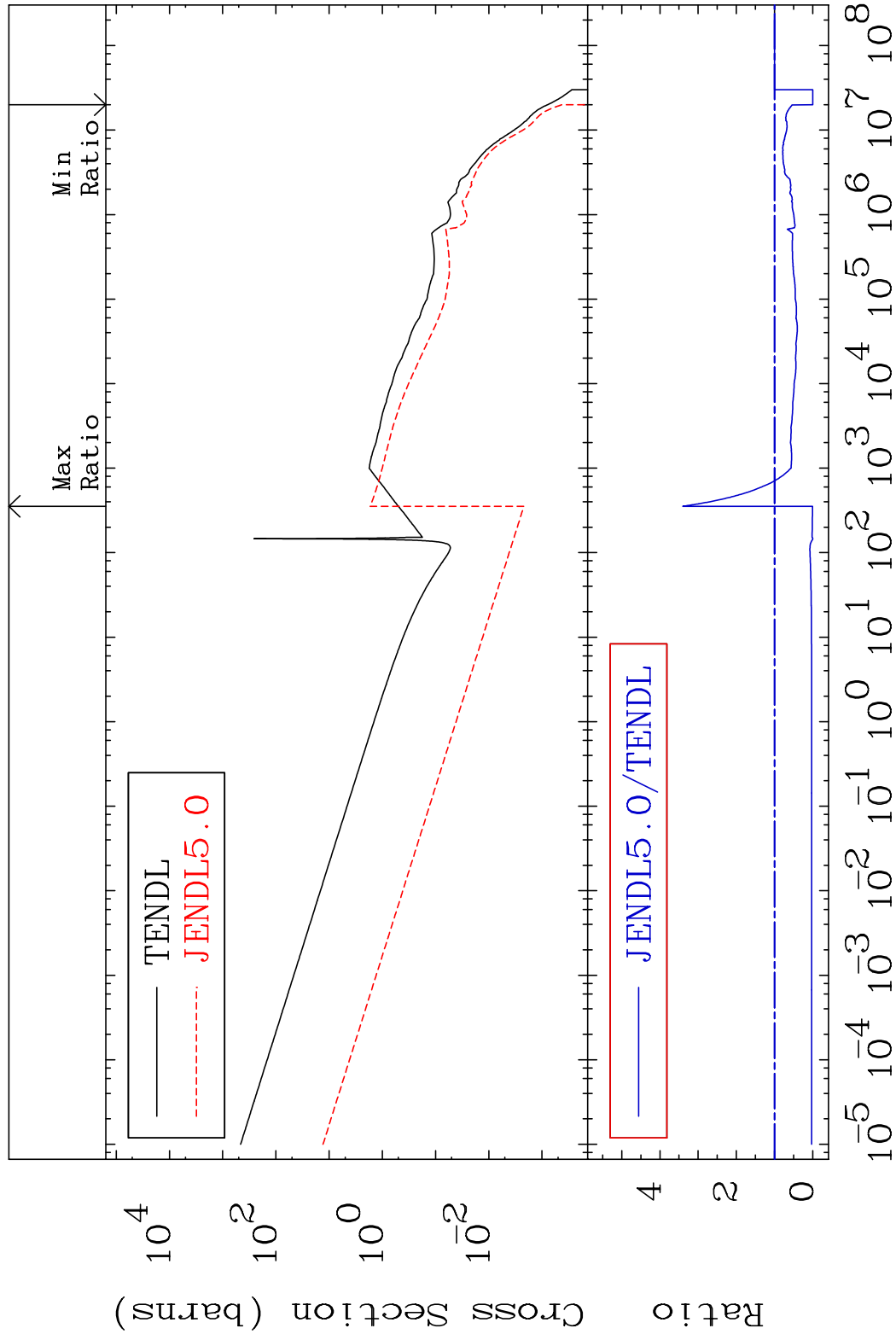


MAT 4619

(n,  $\gamma$ )

46-Pd-100

Cross Section -100.0 To 240.2 %



25

Incident Energy (eV)

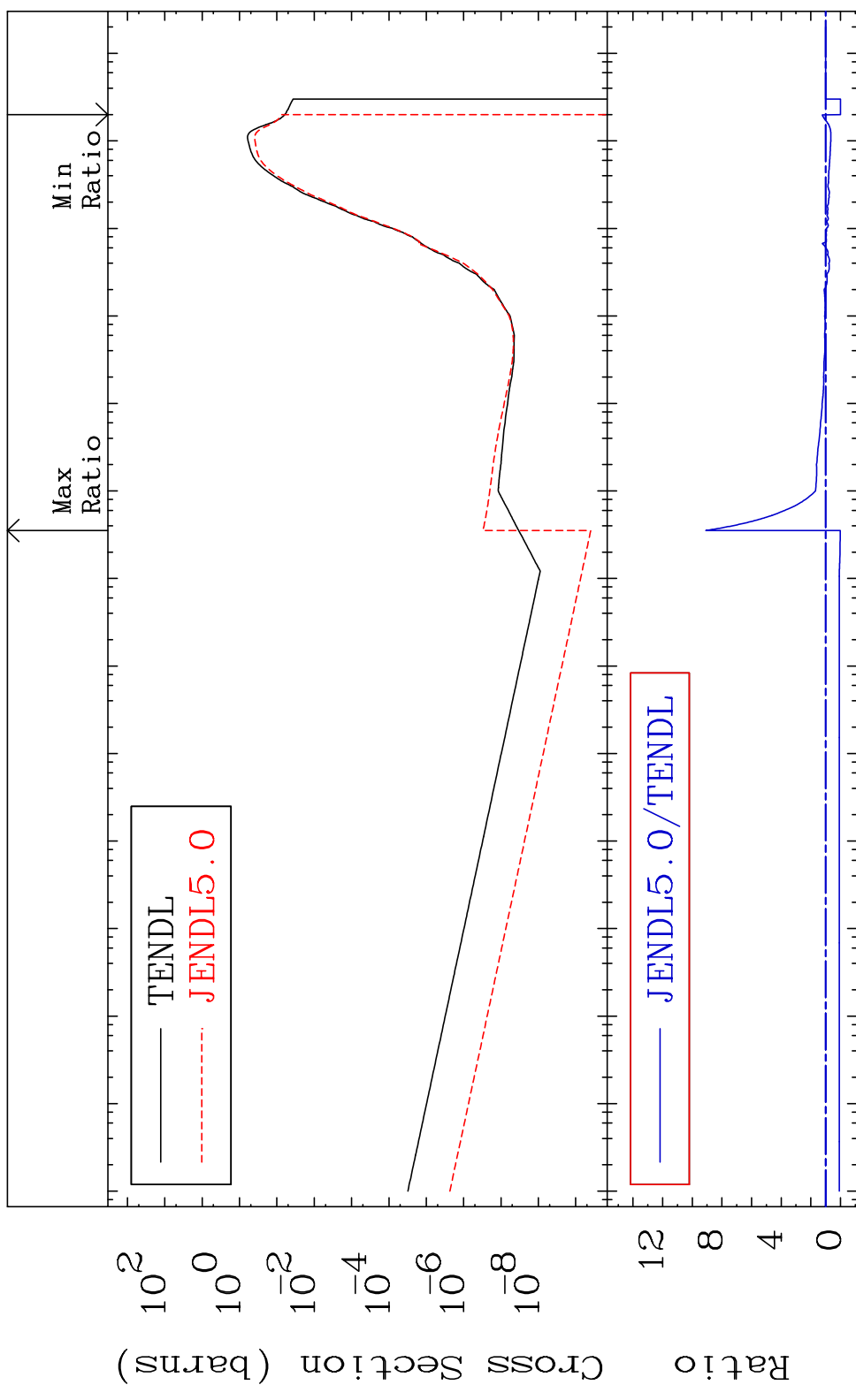
46-Pd-100

MAT 4619

(n, p)

46-Pd-100

Cross Section -100.0 To 808.9 %



12  
8  
4  
0

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)

26

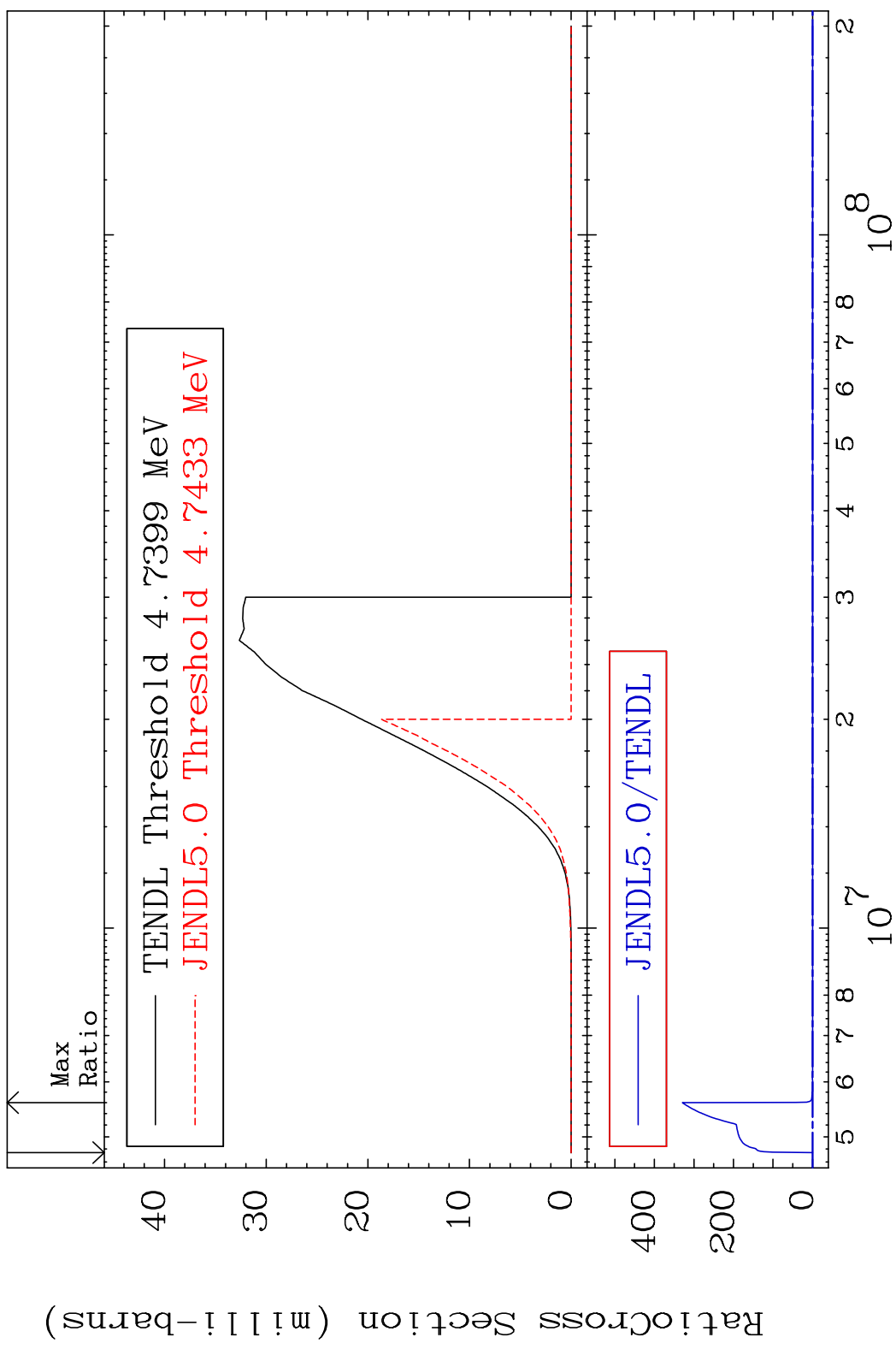
46-Pd-100

MAT 4619

(n,d)

46-Pd-100

Cross Section -100.0 To 9999. %

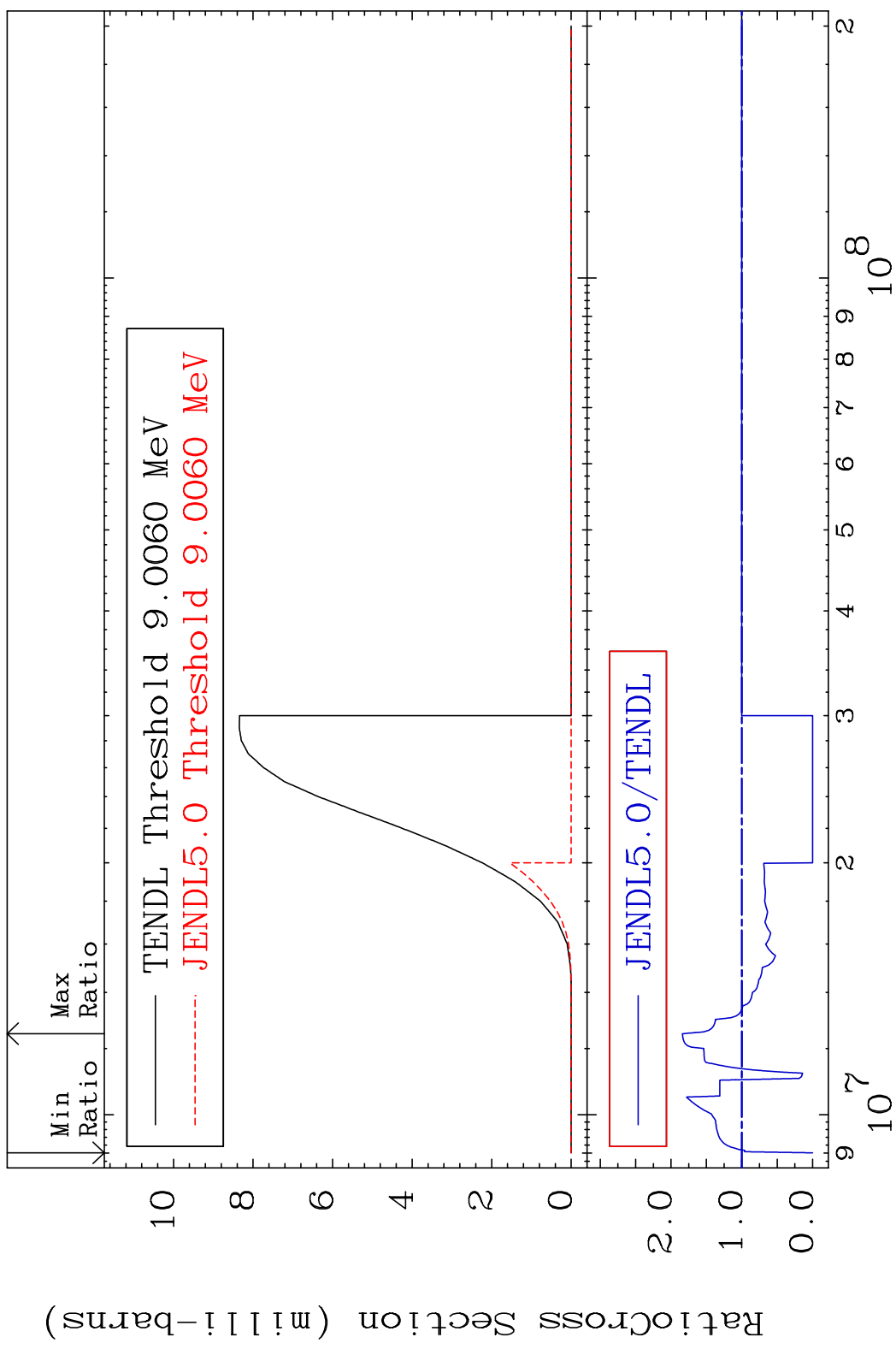


MAT 4619

(n, t)

46-Pd-100

Cross Section -100.0 To 84.00 %



28

Incident Energy (eV)

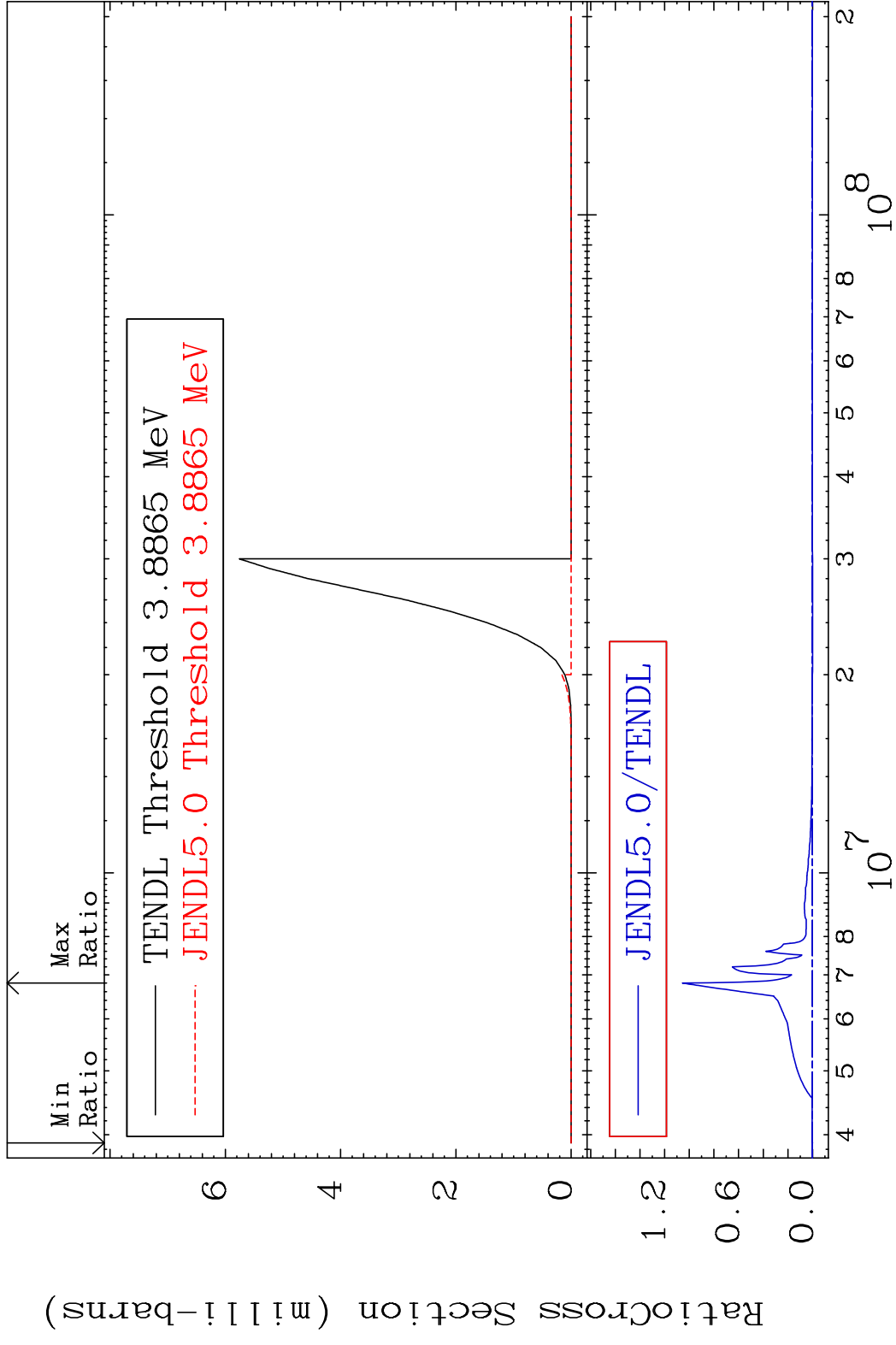
46-Pd-100

MAT 4619

(n, He-3)

46-Pd-100

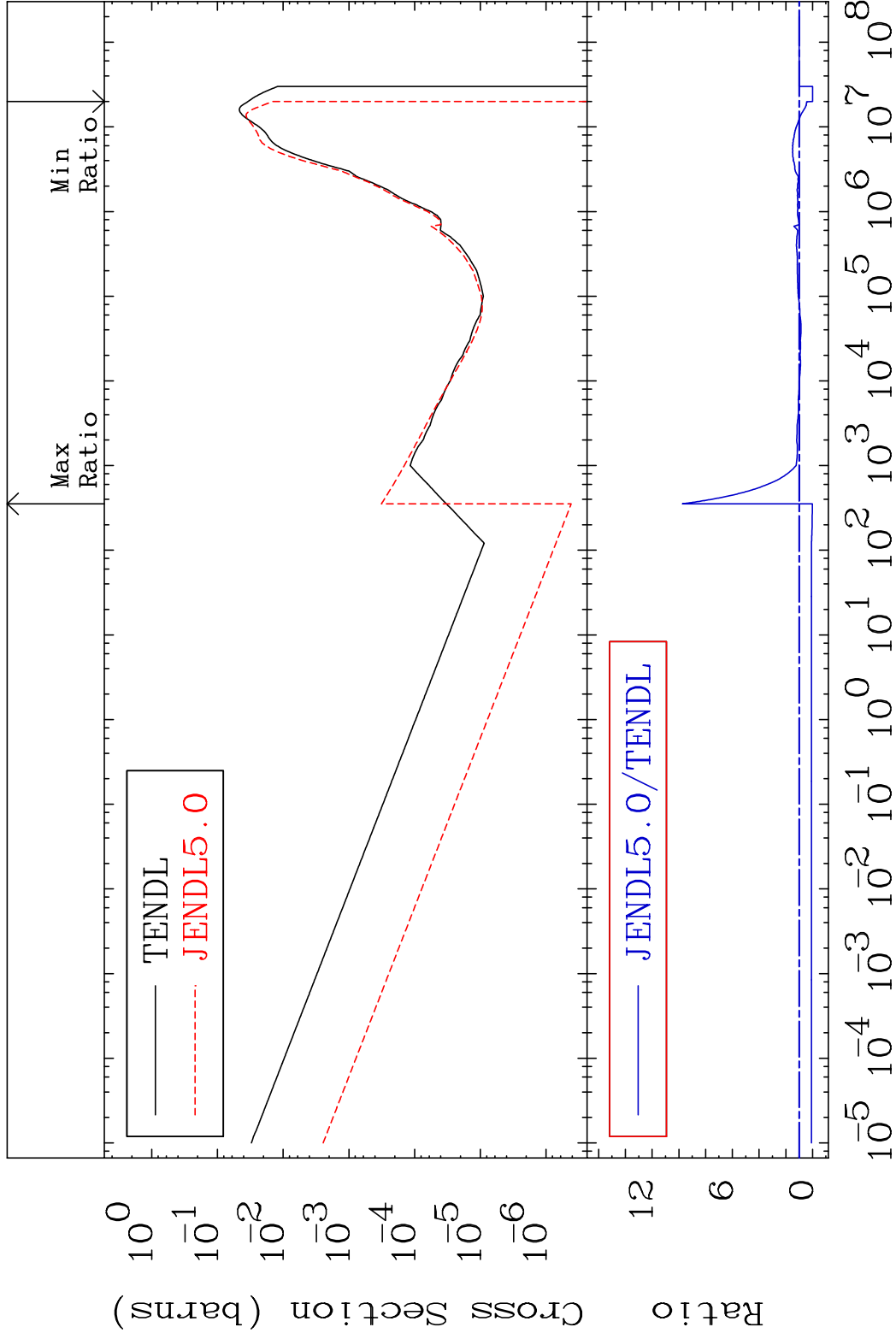
Cross Section -100.0 To 9999. %



MAT 4619

(n,  $\alpha$ )  
Cross Section -100.0 To 873.9 %

46-Pd-100



30

Incident Energy (eV)

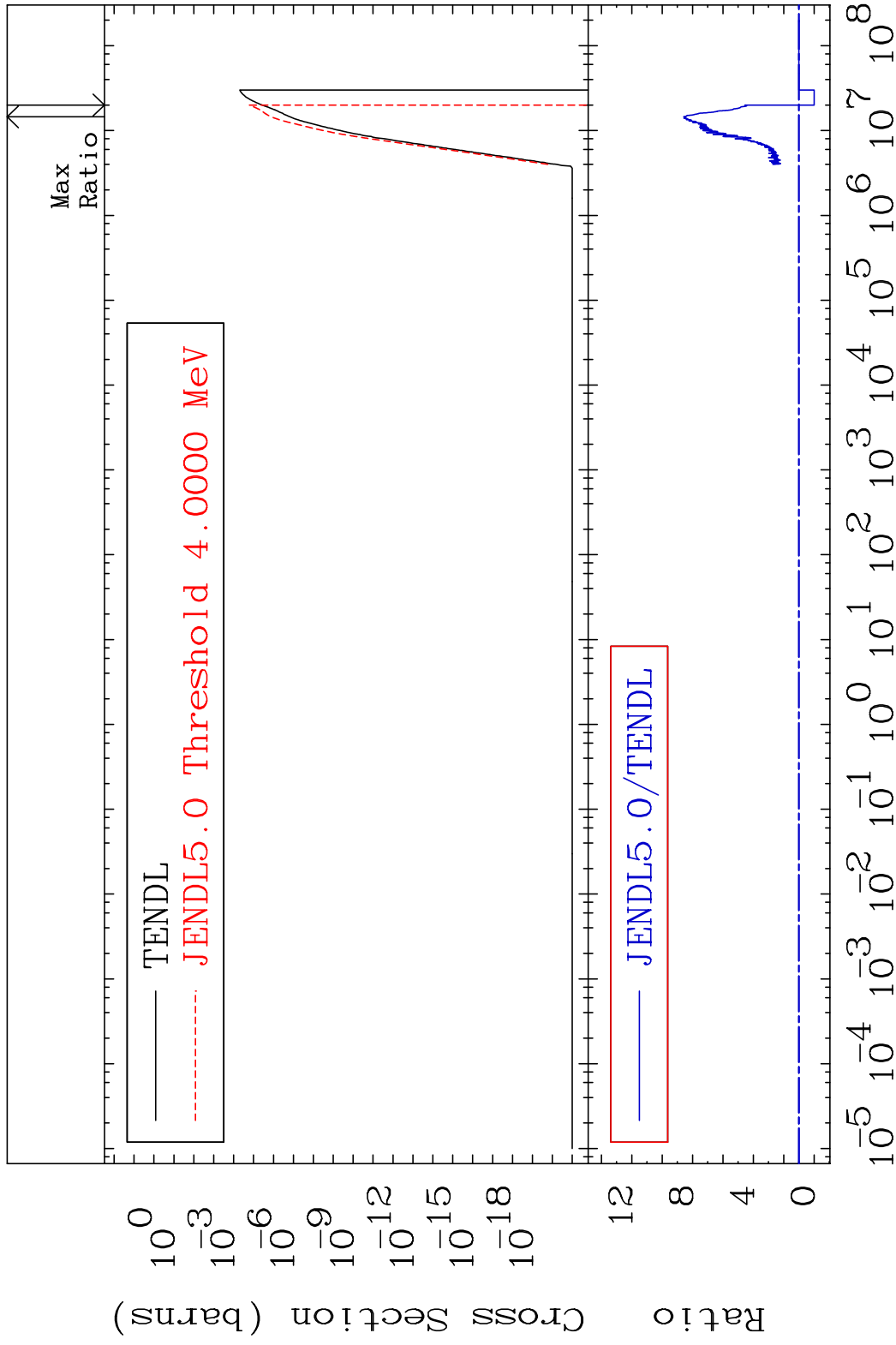
46-Pd-100

MAT 4619

(n, 2α)

46-Pd-100

Cross Section -100.0 To 758.5 %



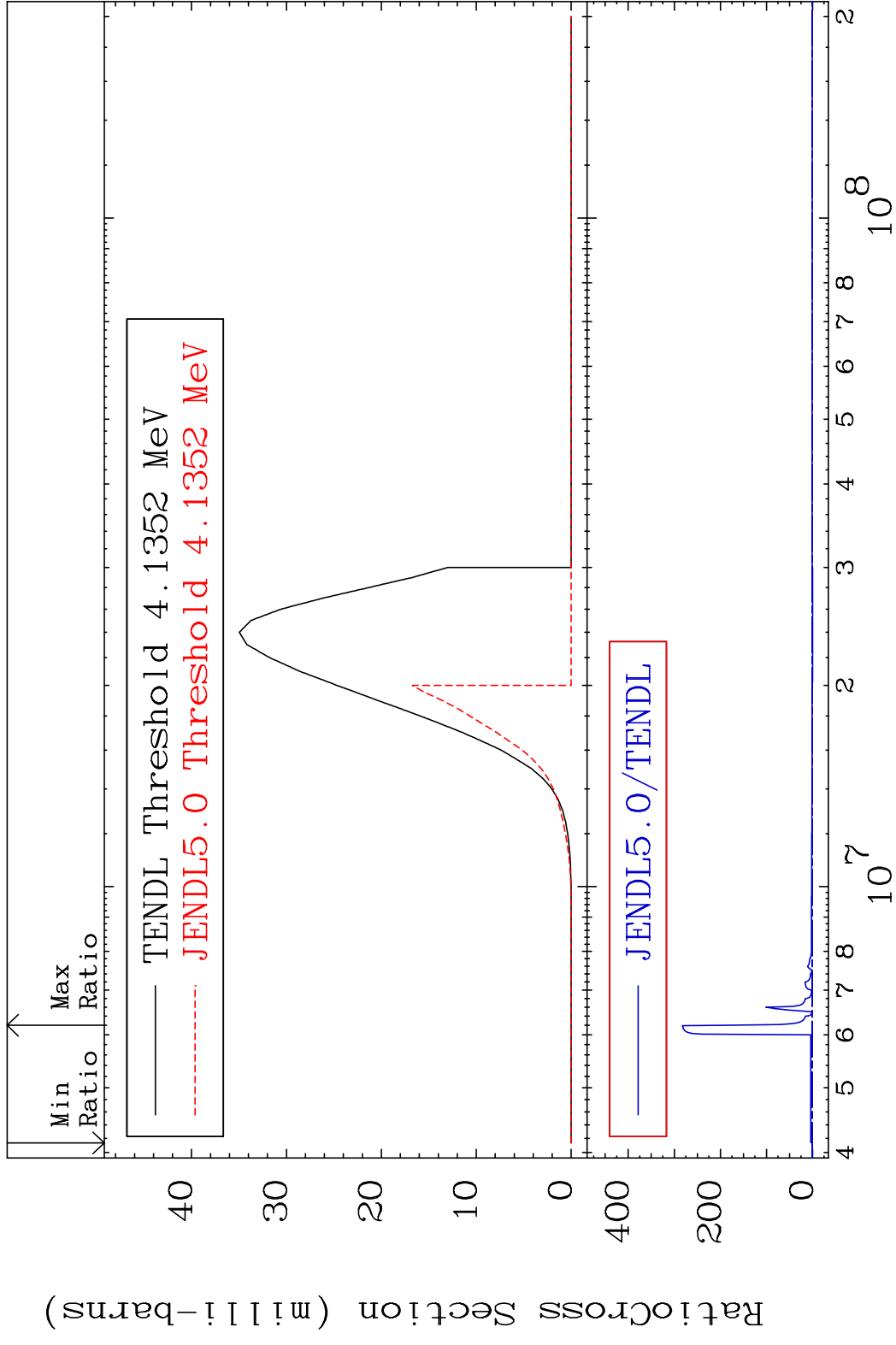
31

Incident Energy (eV)

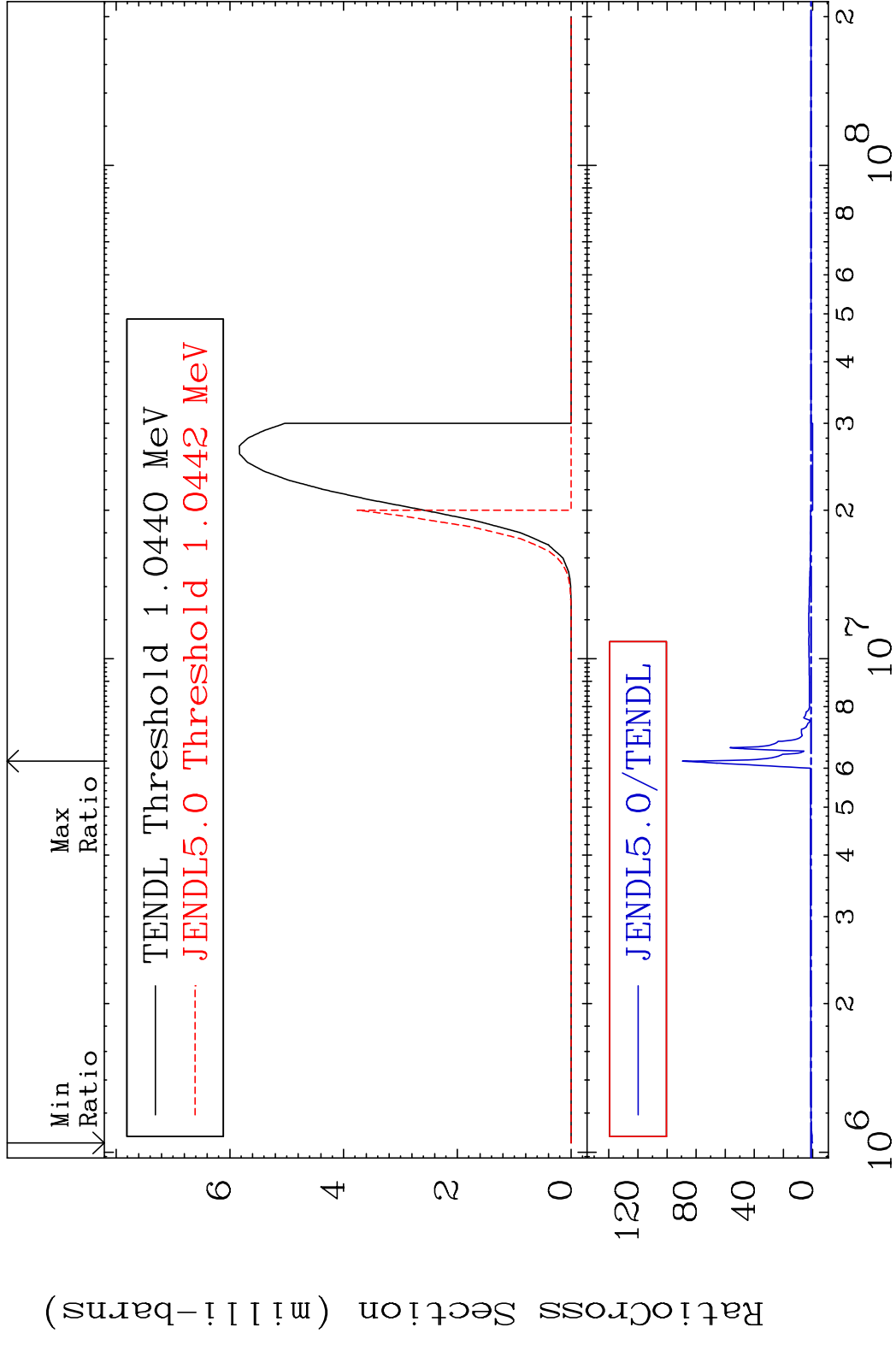
46-Pd-100



MAT 4619 (n,2p) 46-Pd-100  
 Cross Section -100.0 To 9999. %

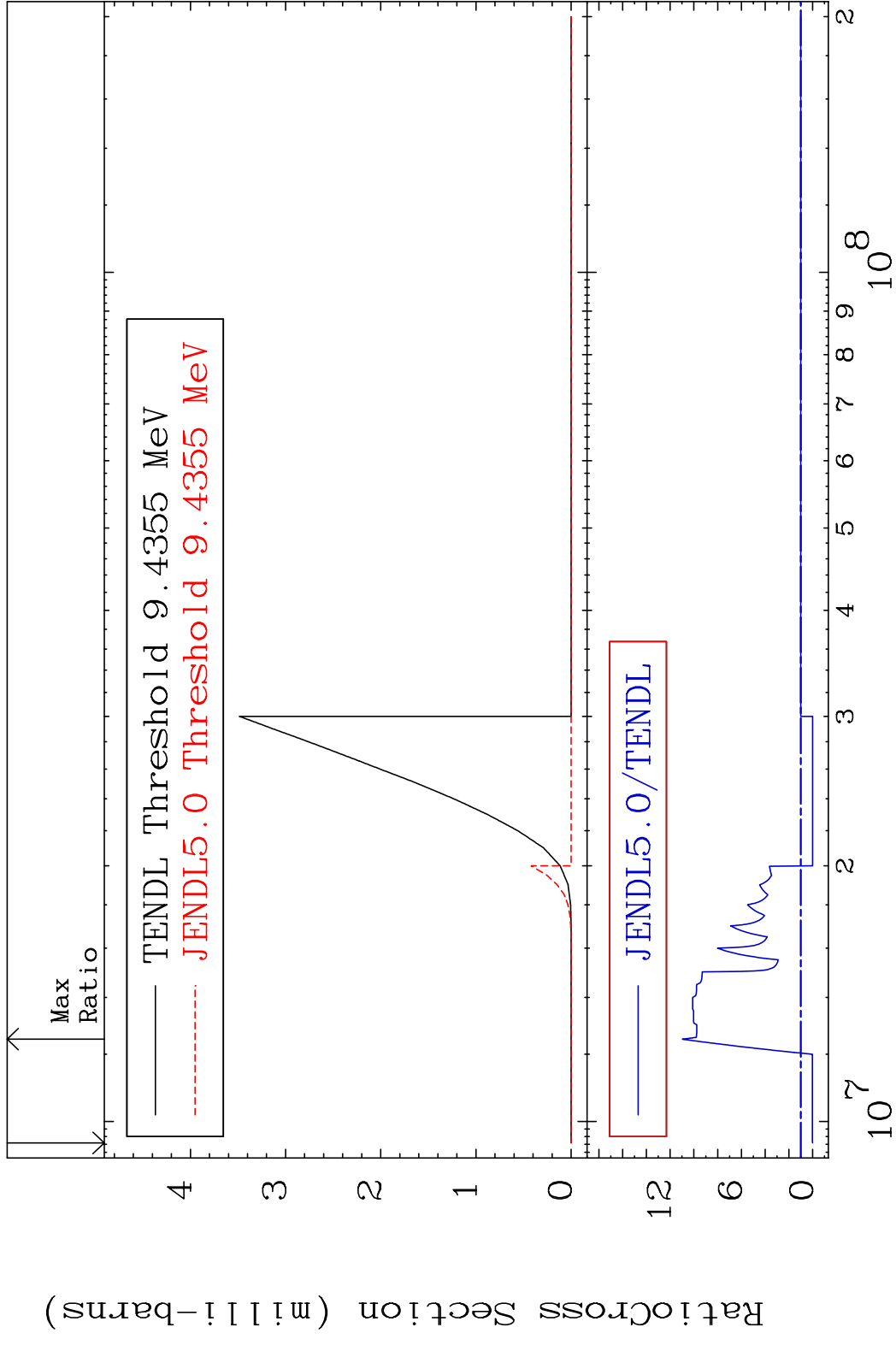


MAT 4619 (n,p)  $\alpha$  46-Pd-100  
 Cross Section -100.0 To 8845. %



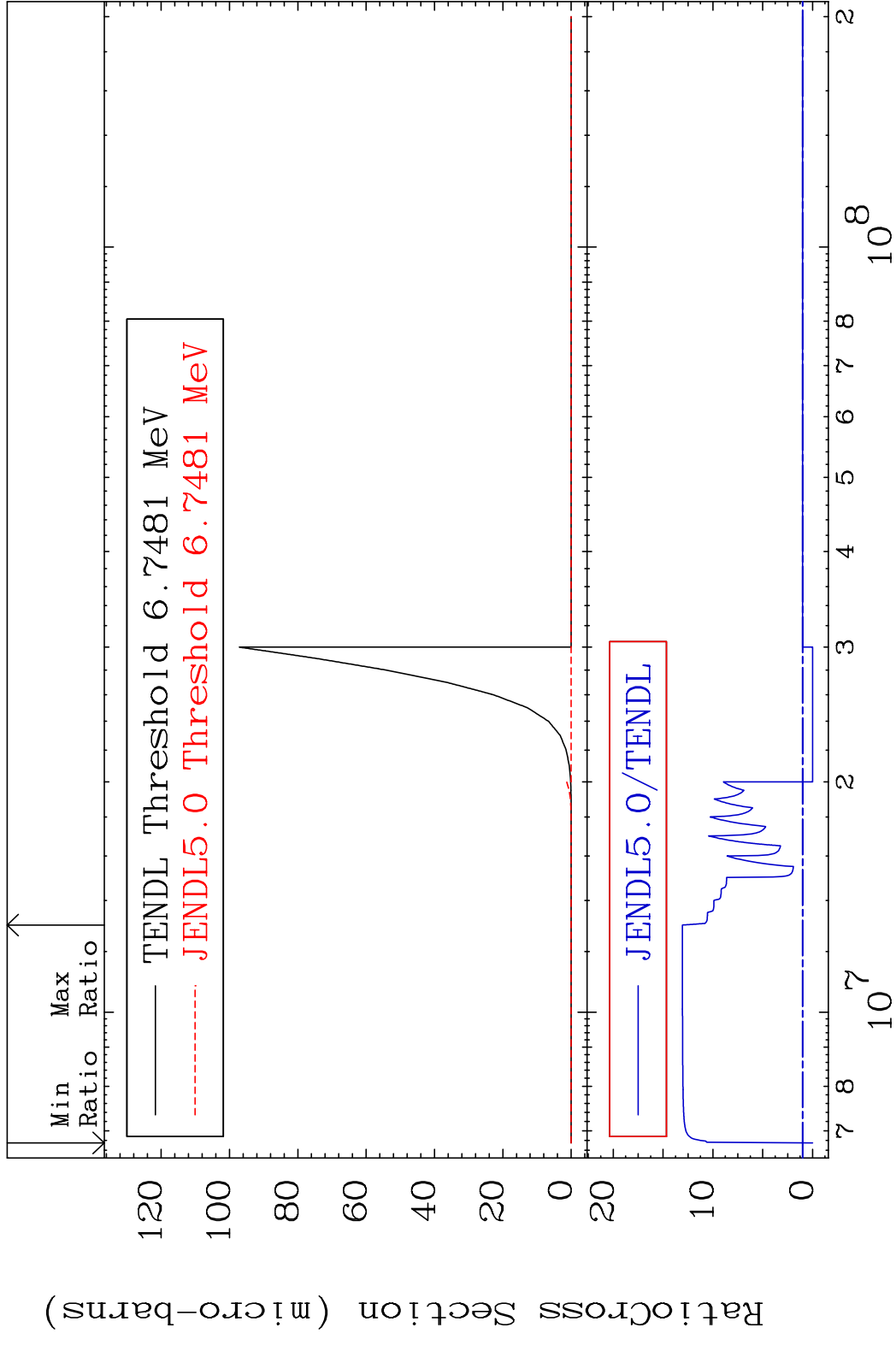
33 Incident Energy (eV) 46-Pd-100

MAT 4619 (n,p) d 46-Pd-100  
 Cross Section -100.0 To 997.3 %

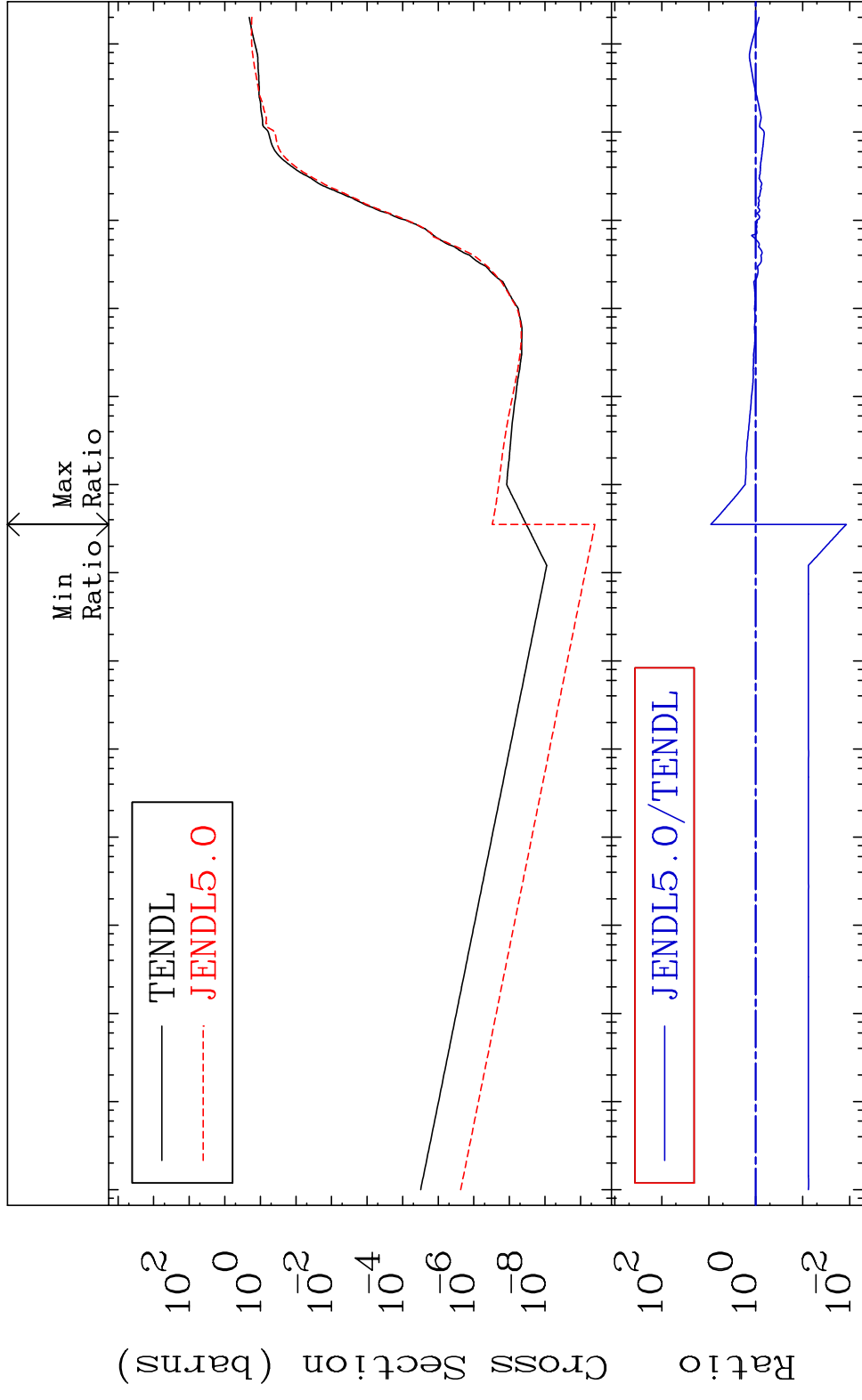


34 46-Pd-100

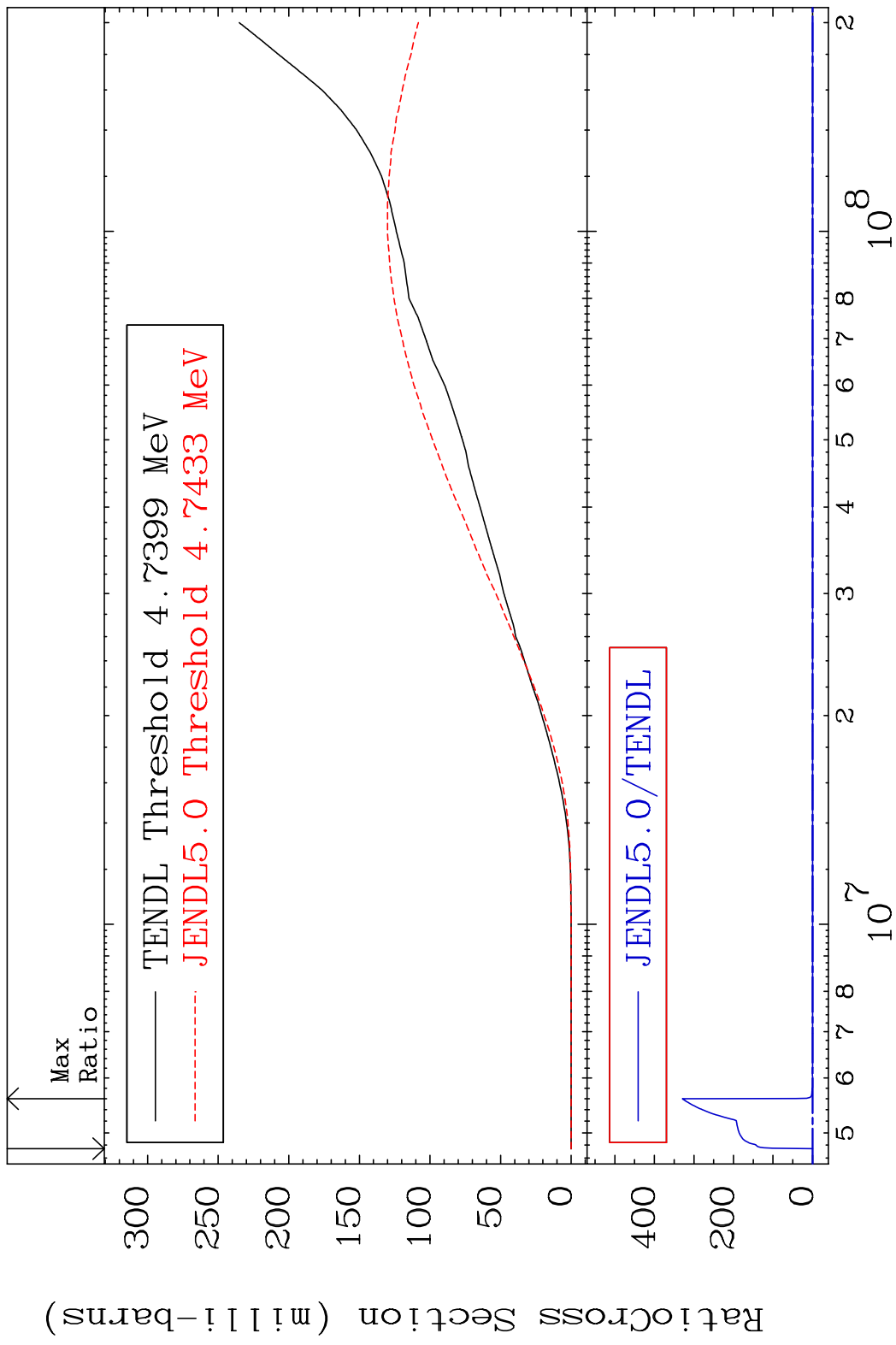
MAT 4619 (n,d)  $\alpha$  46-Pd-100  
 Cross Section -100.0 To 1206. %



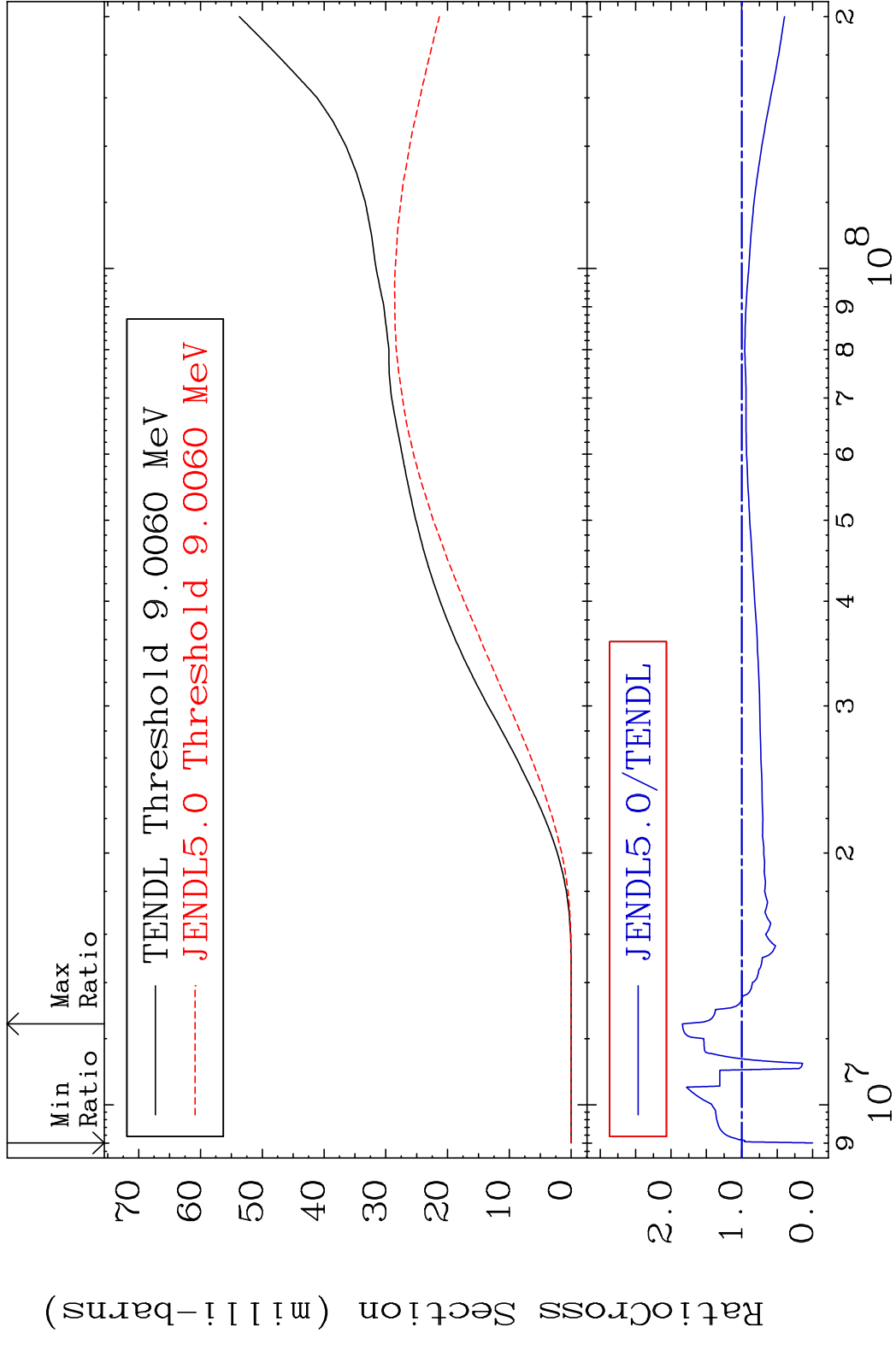
MAT 4619 Hydrogen Production 46-Pd-100  
 Cross Section -98.82 To 808.9 %



MAT 4619 Deuterium Production 46-Pd-100  
 Cross Section -100.0 To 9999. %



MAT 4619 Tritium Production 46-Pd-100  
 Cross Section -100.0 To 84.00 %

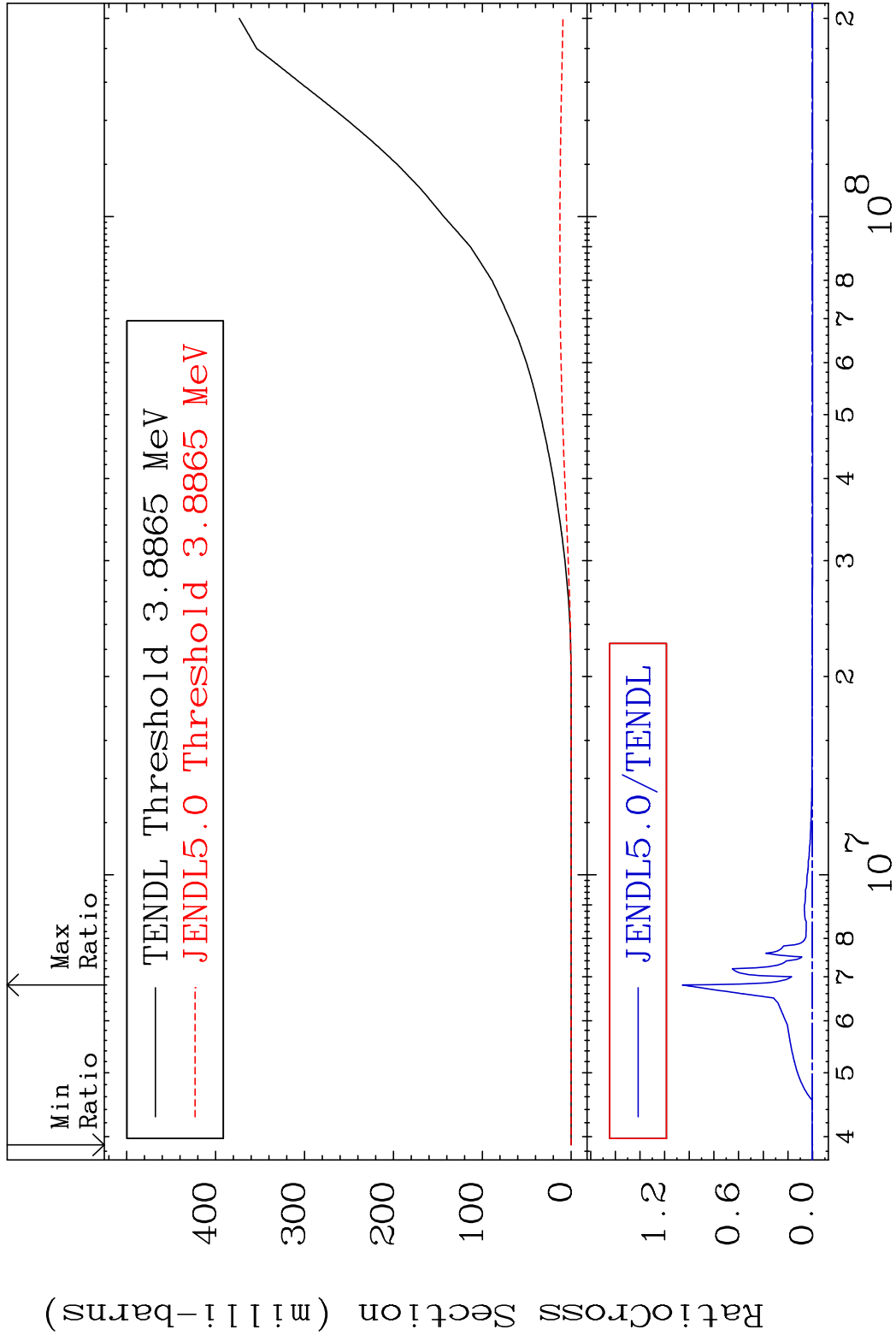


MAT 4619

He-3 Production

46-Pd-100

Cross Section -100.0 To 9999. %



39

Incident Energy (eV)

46-Pd-100

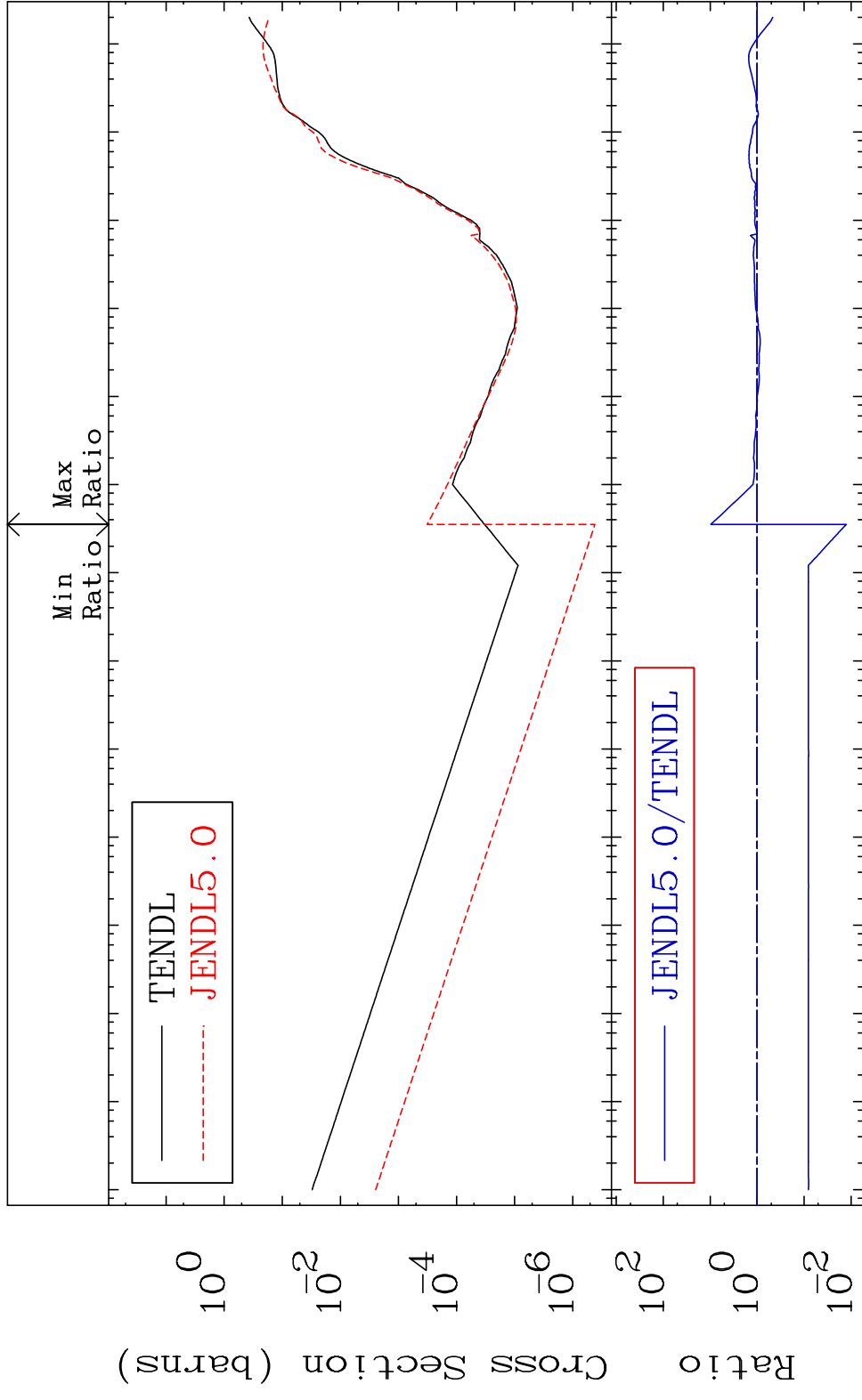


MAT 4619

He-4 Production

46-Pd-100

Cross Section -98.74 To 873.9 %

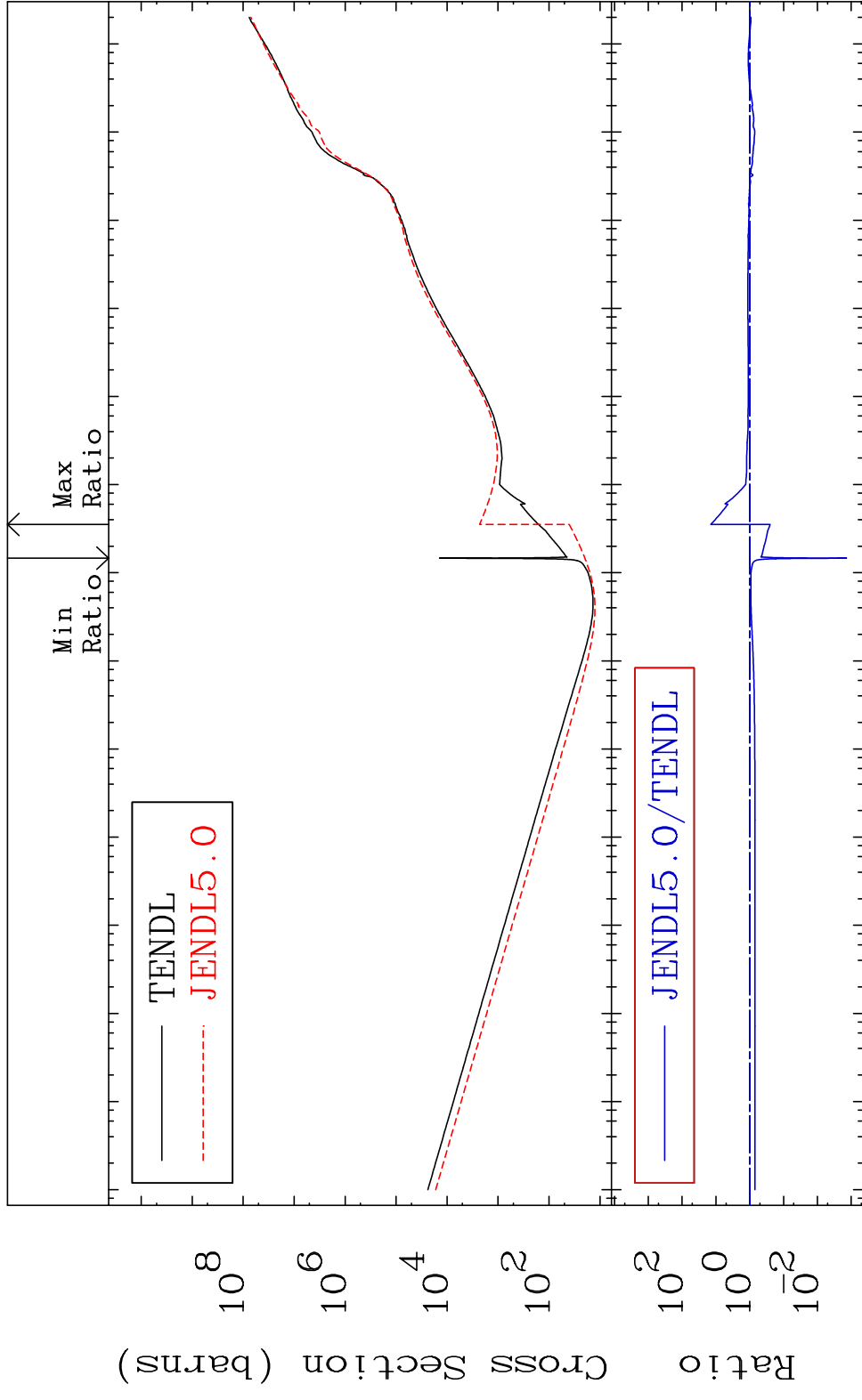


40

Incident Energy (eV)

46-Pd-100

MAT 4619 Kerma total (eV-barns) 46-Pd-100  
 Cross Section -99.86 To 1327. %

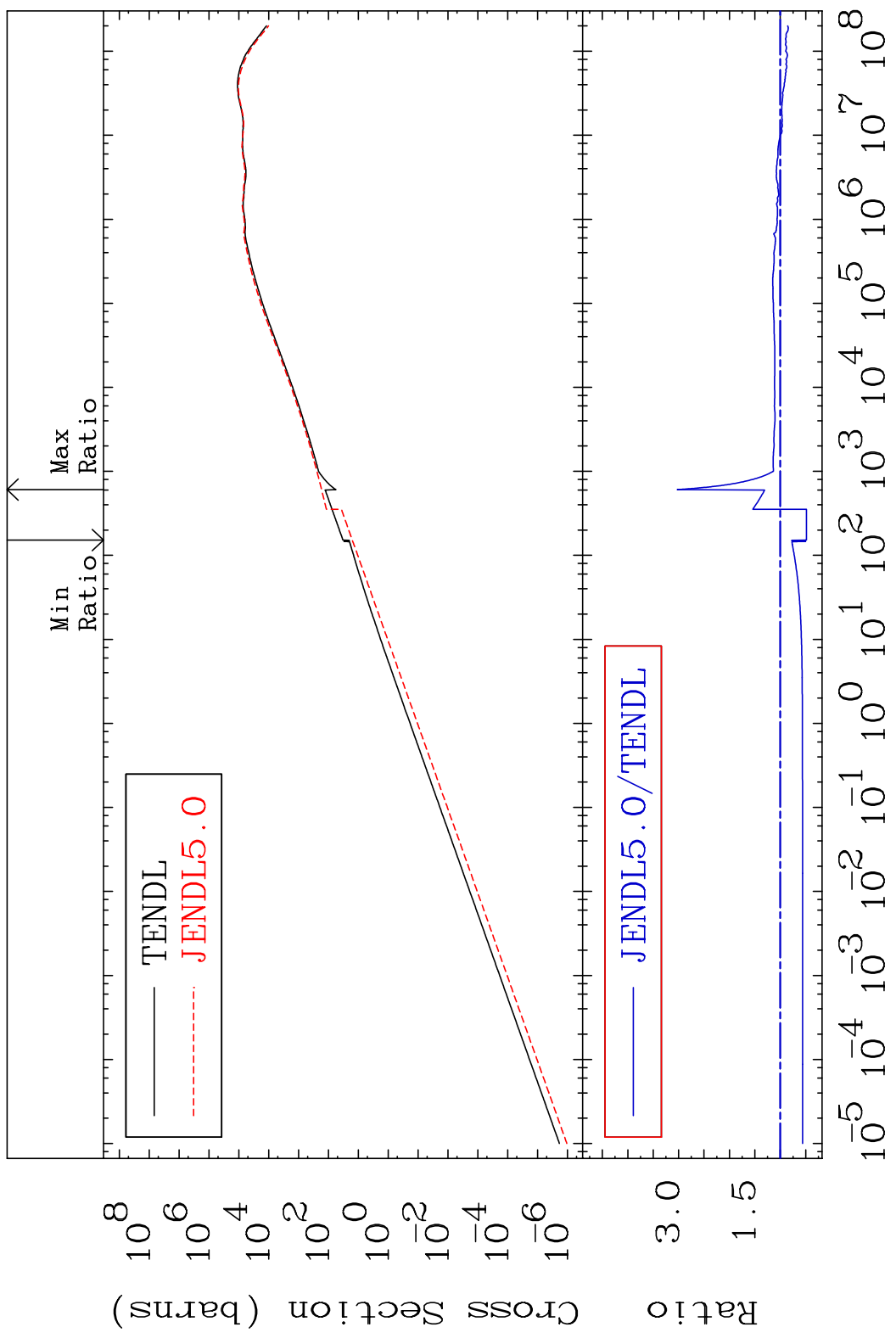


41 Incident Energy (eV) 46-Pd-100

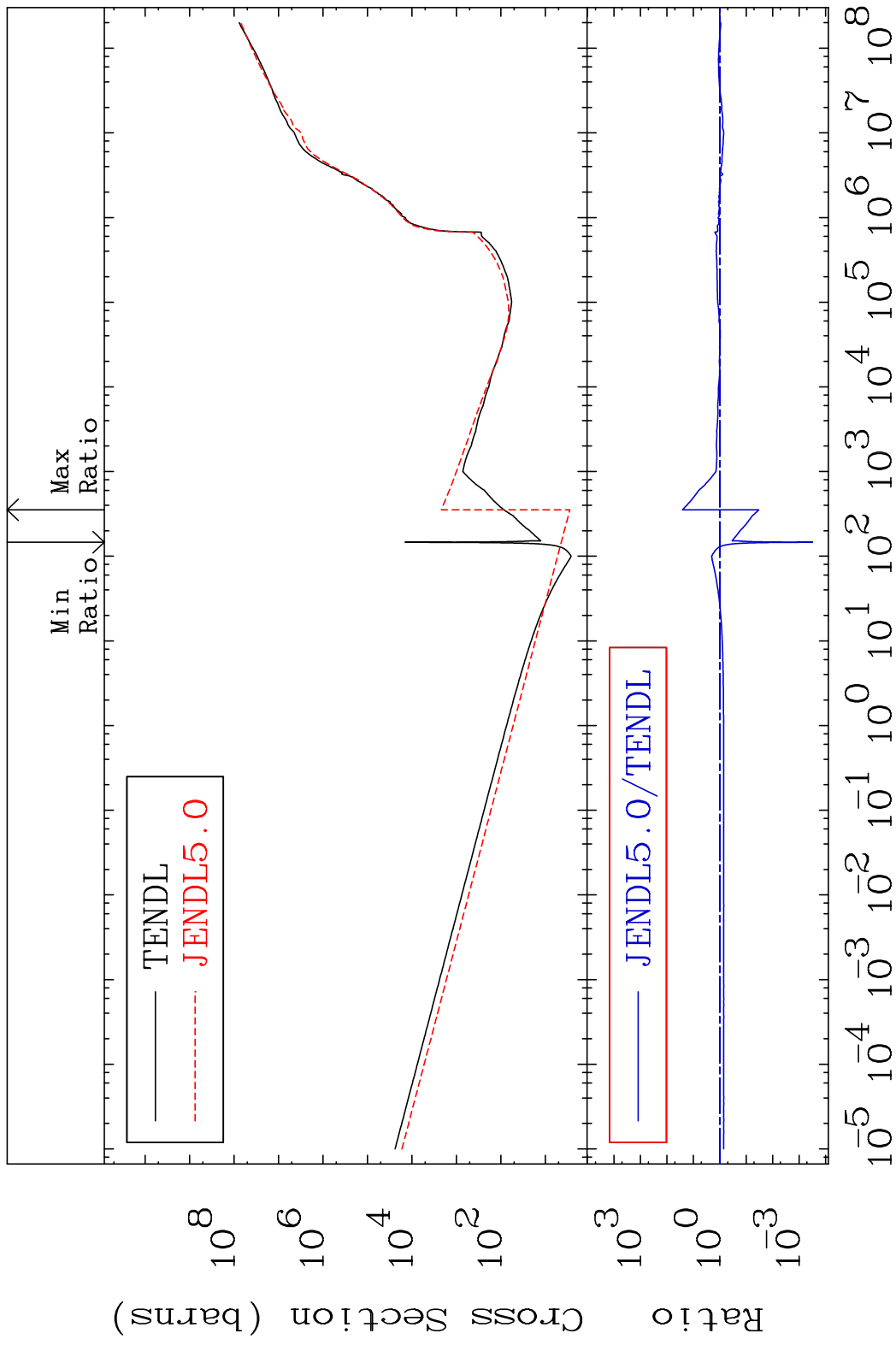
MAT 4619

Kerma elastic  
Cross Section -51.34 To 202.8 %

46-Pd-100

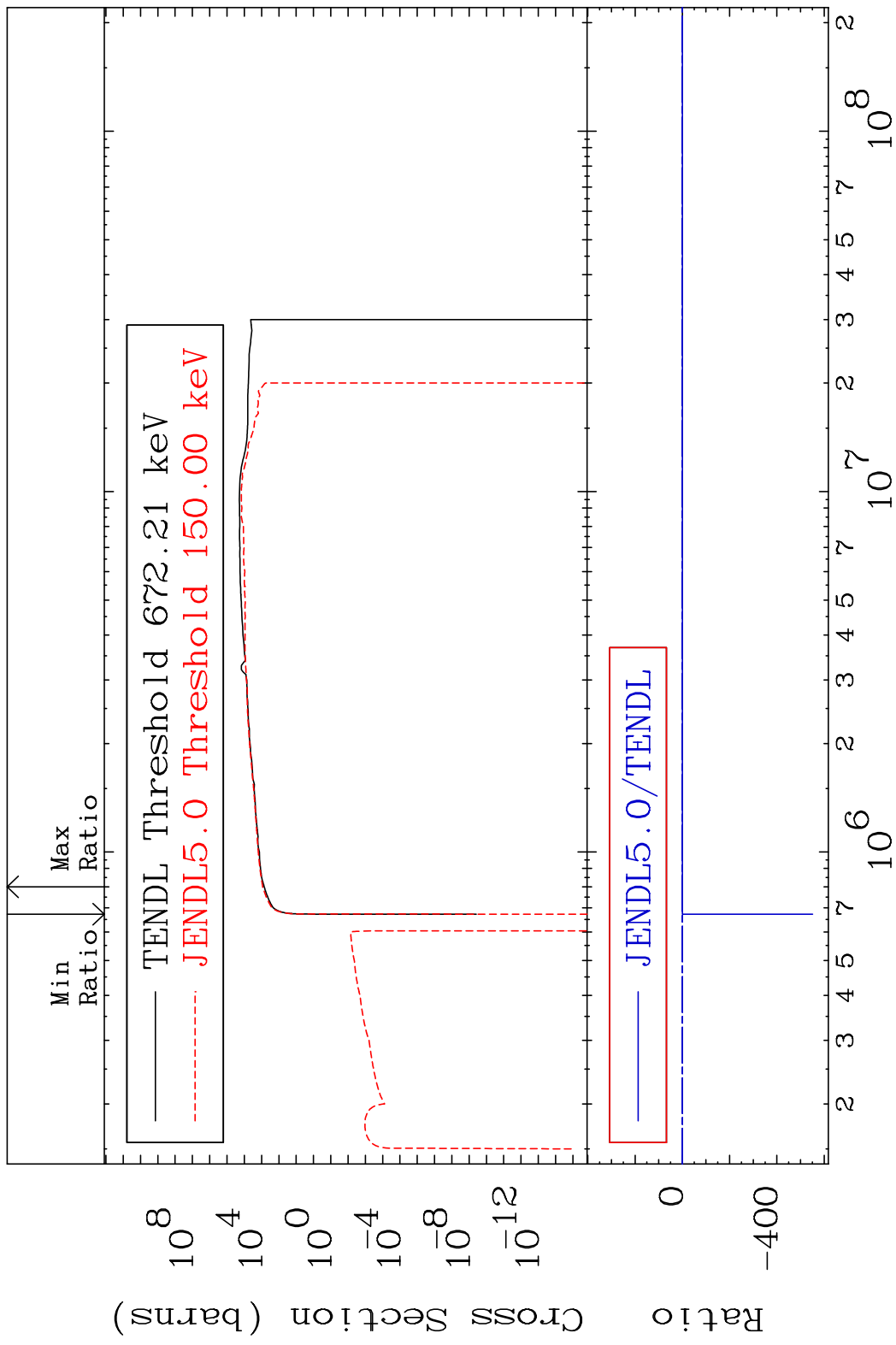


MAT 4619 Kerma non-elastic (all but mt2) 46-Pd-100  
 Cross Section -99.97 To 2481. %

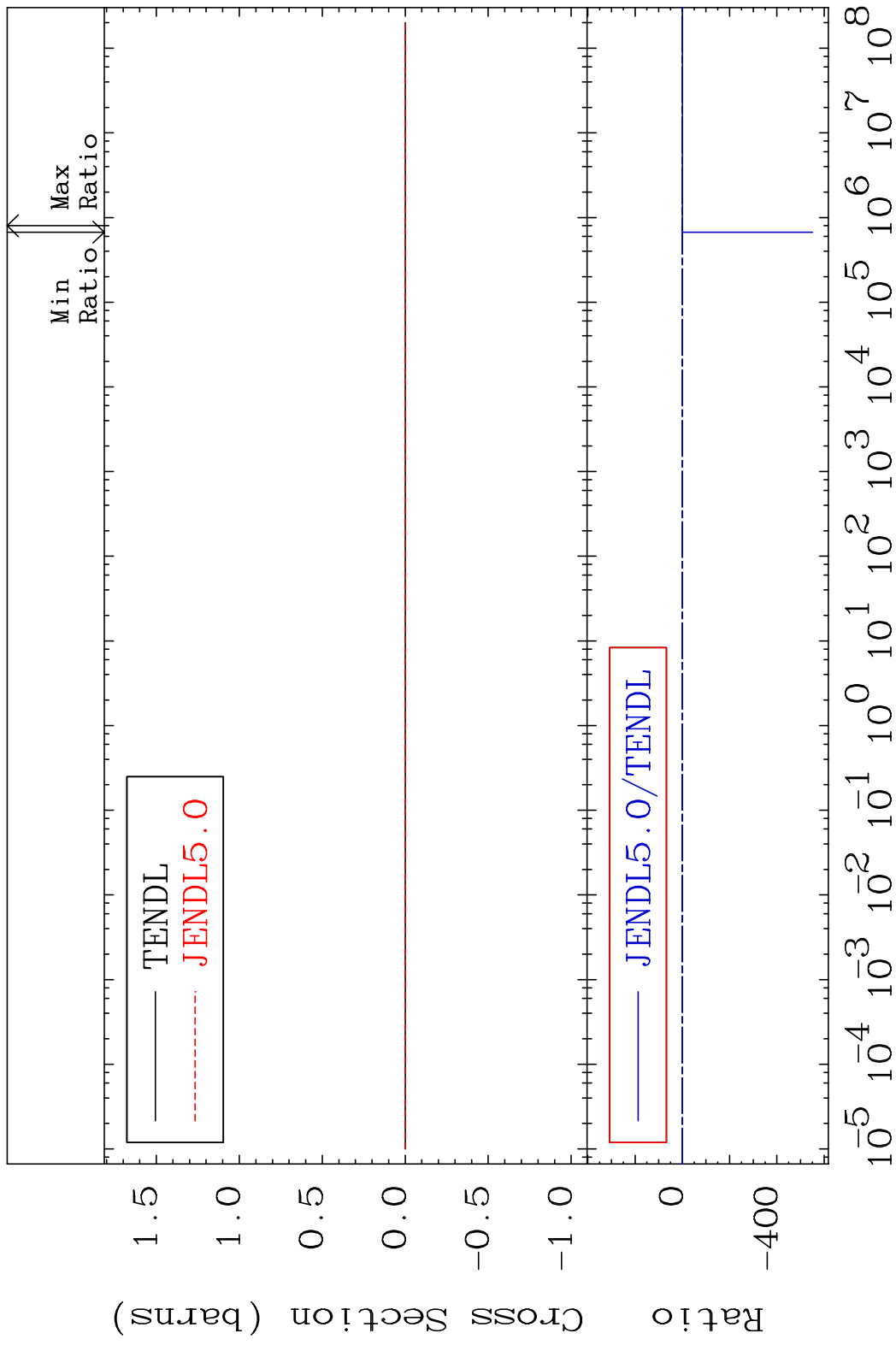


43 Incident Energy (eV) 46-Pd-100

MAT 4619 Kerma inelastic (mt51-91) 46-Pd-100  
 Cross Section -9999. To 23.71 %

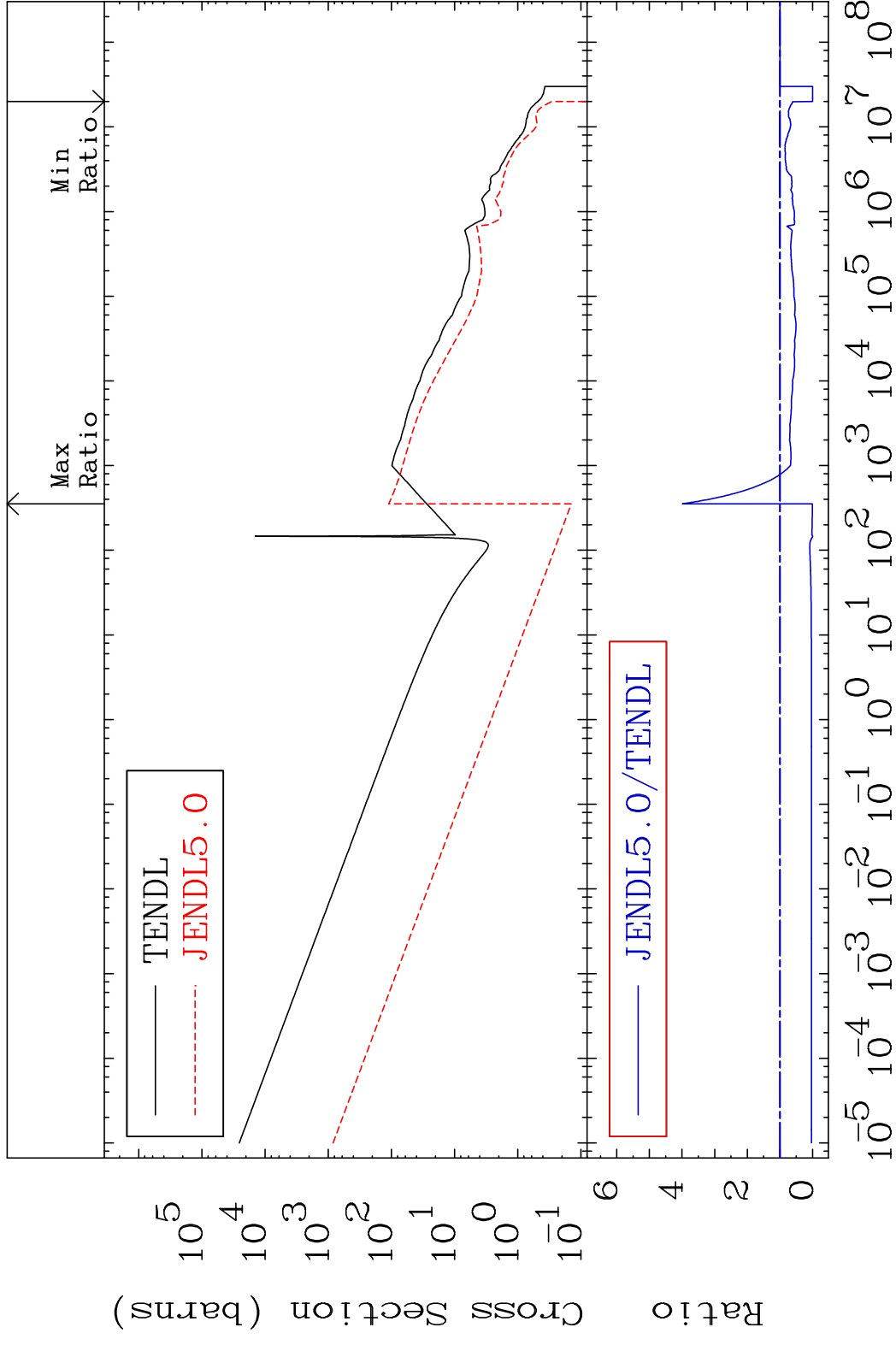


MAT 4619 Kerma fission (mt18 or mt19-20-21-38) 46-Pd-100  
 Cross Section -9999. To 23.71 %



MAT 4619

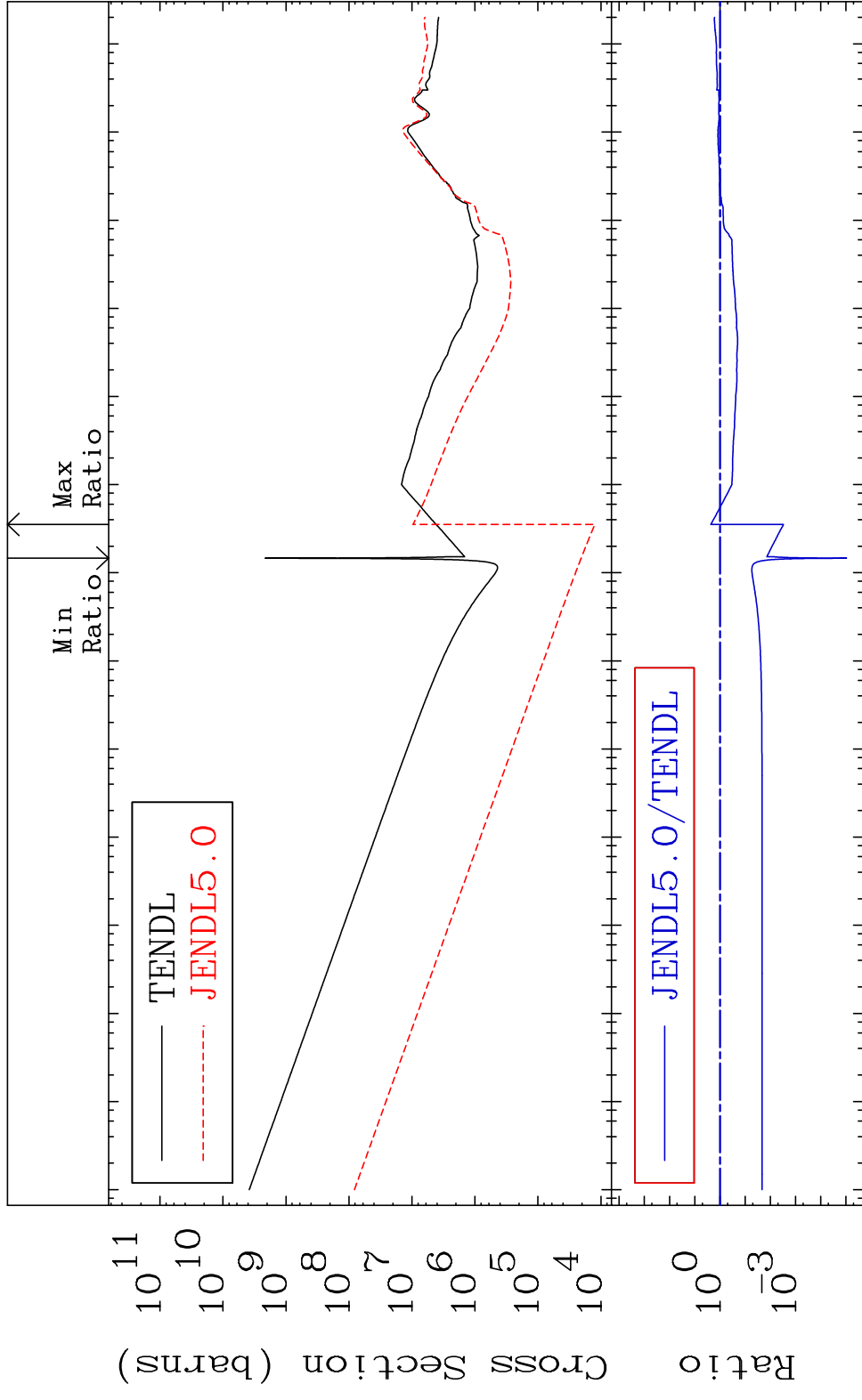
Kerma capture (mt102) 46-Pd-100  
Cross Section -100.0 To 299.1 %



46

Incident Energy (eV) 46-Pd-100

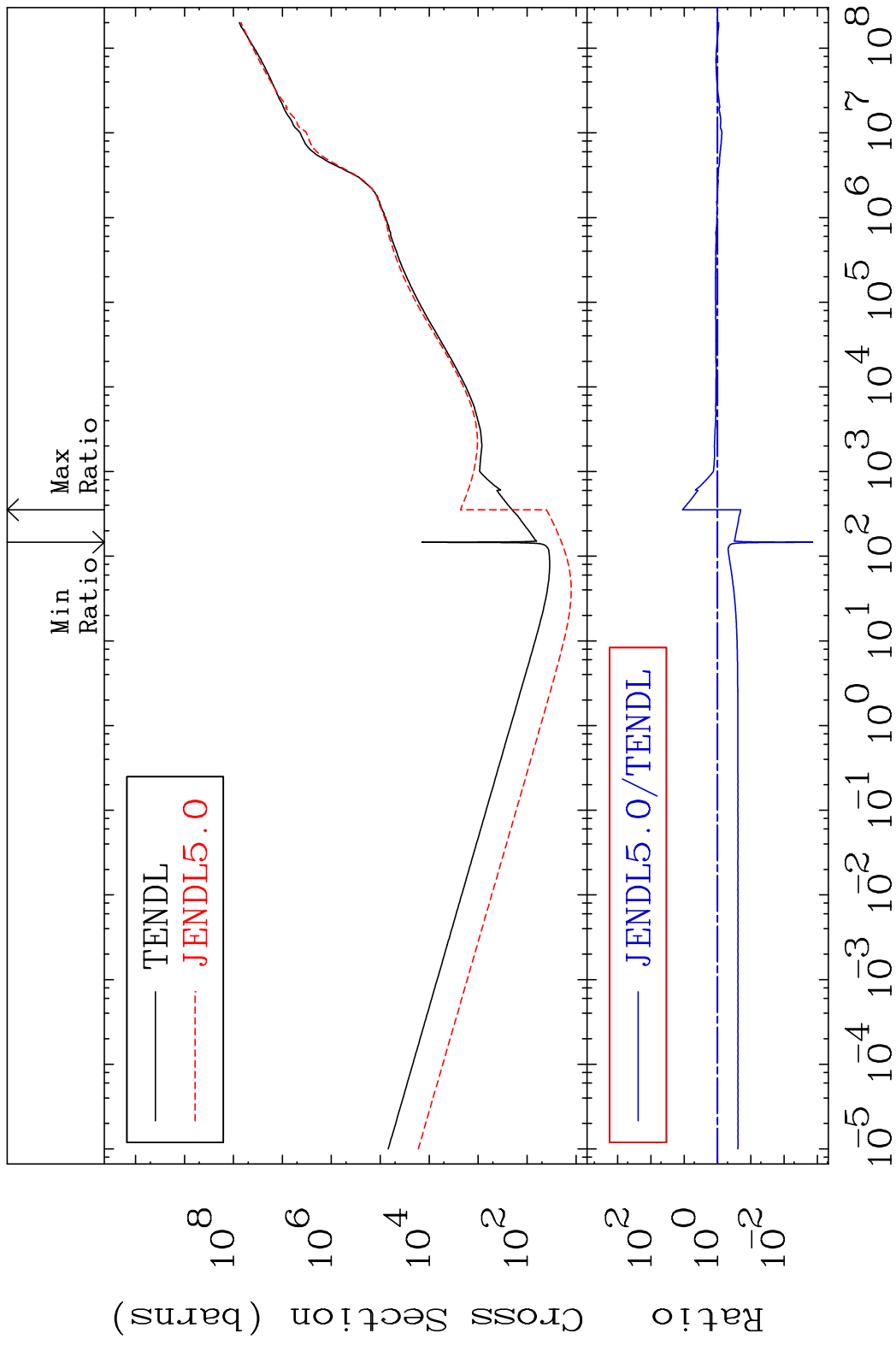
MAT 4619 Total photon (eV-barns) 46-Pd-100  
 Cross Section -100.0 To 132.7 %



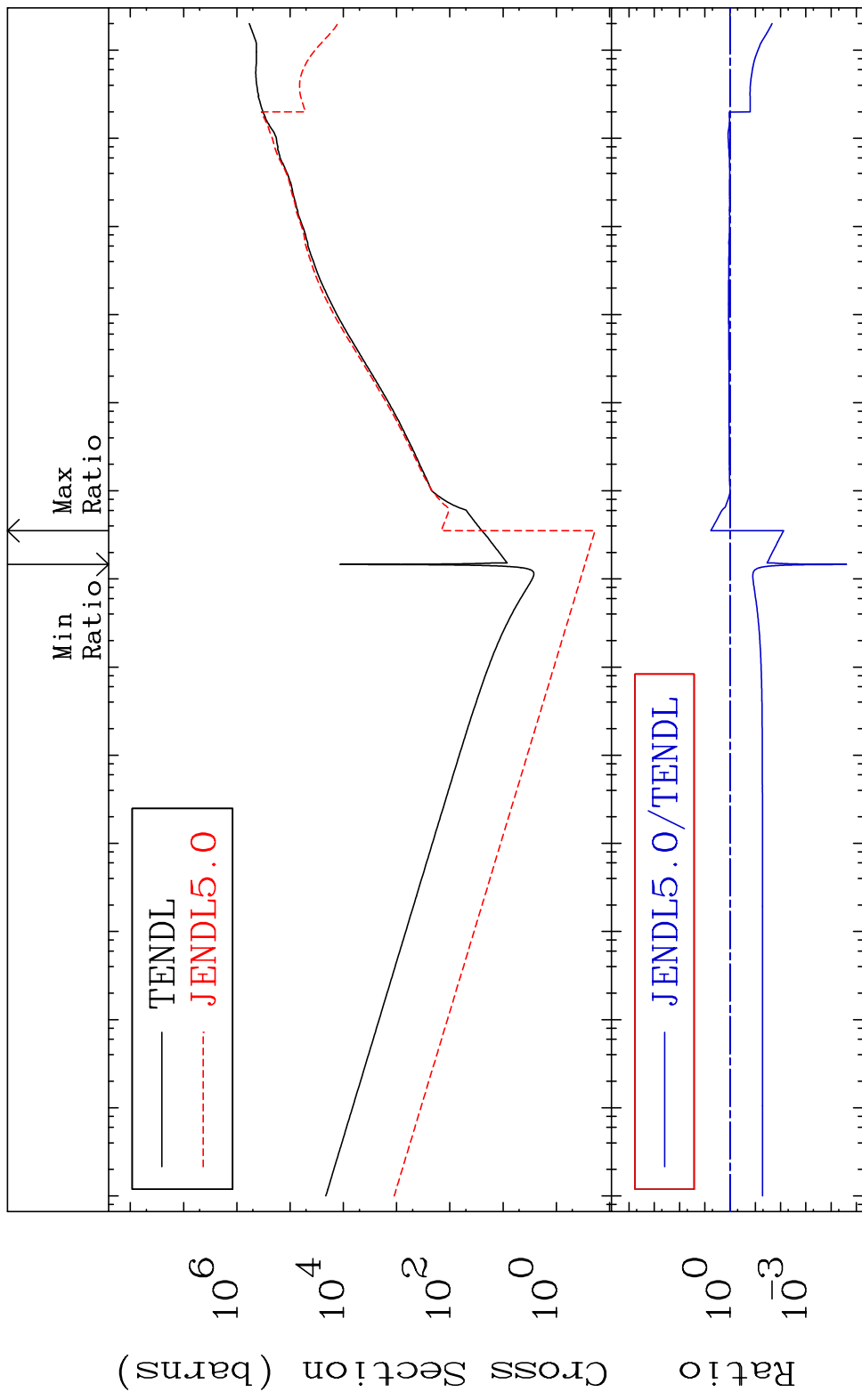
47 Incident Energy (eV) 46-Pd-100



MAT 4619 Total kinematic kerma (high limit) 46-Pd-100  
 Cross Section -99.86 To 1035. %



MAT 4619      Dpa total (eV-barns)      46-Pd-100  
 Cross Section      -100.0 To 482.6 %



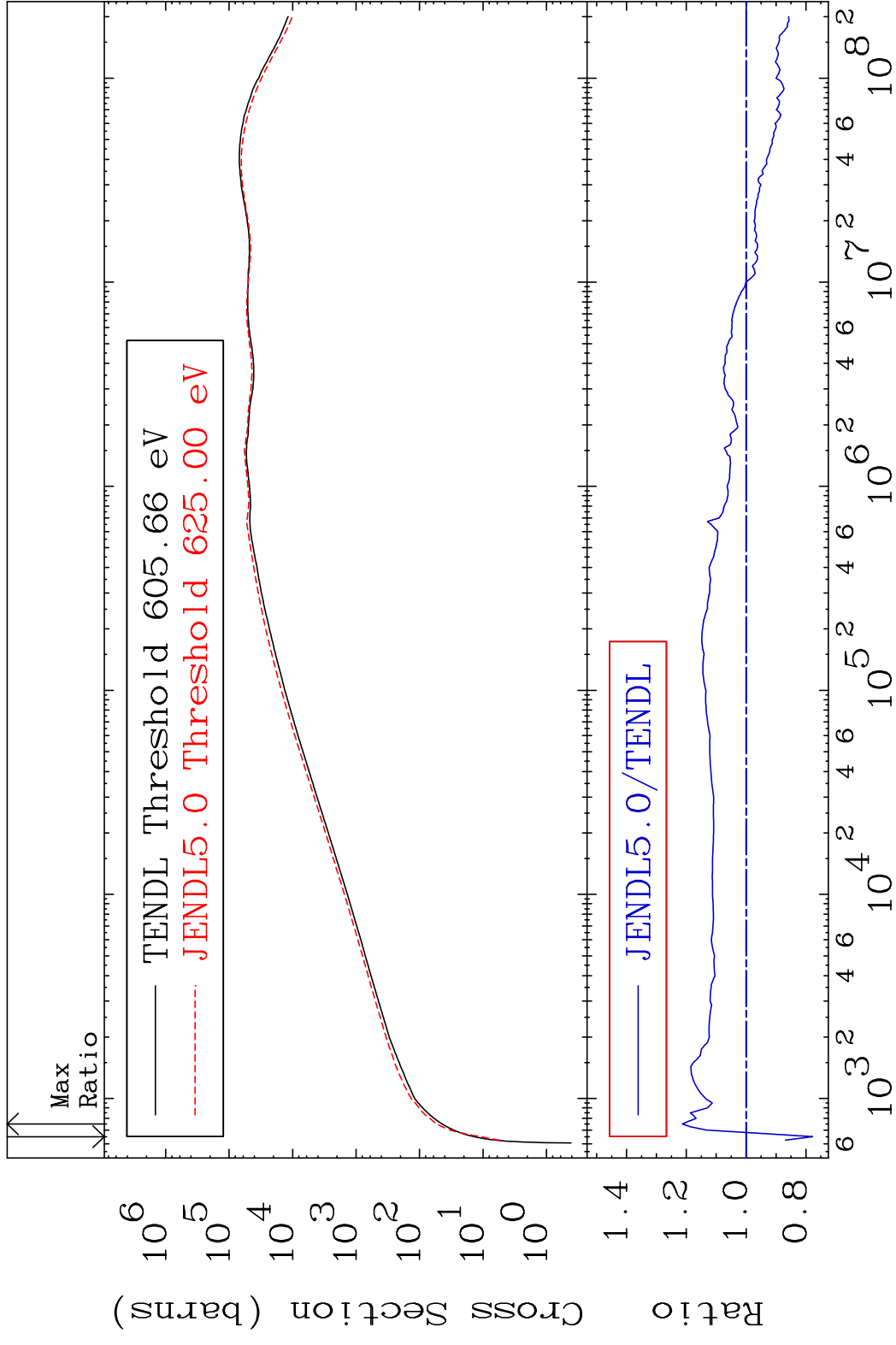
49      Incident Energy (eV)      46-Pd-100

MAT 4619

Dpa elastic (mt2)

46-Pd-100

Cross Section -22.22 To 21.34 %

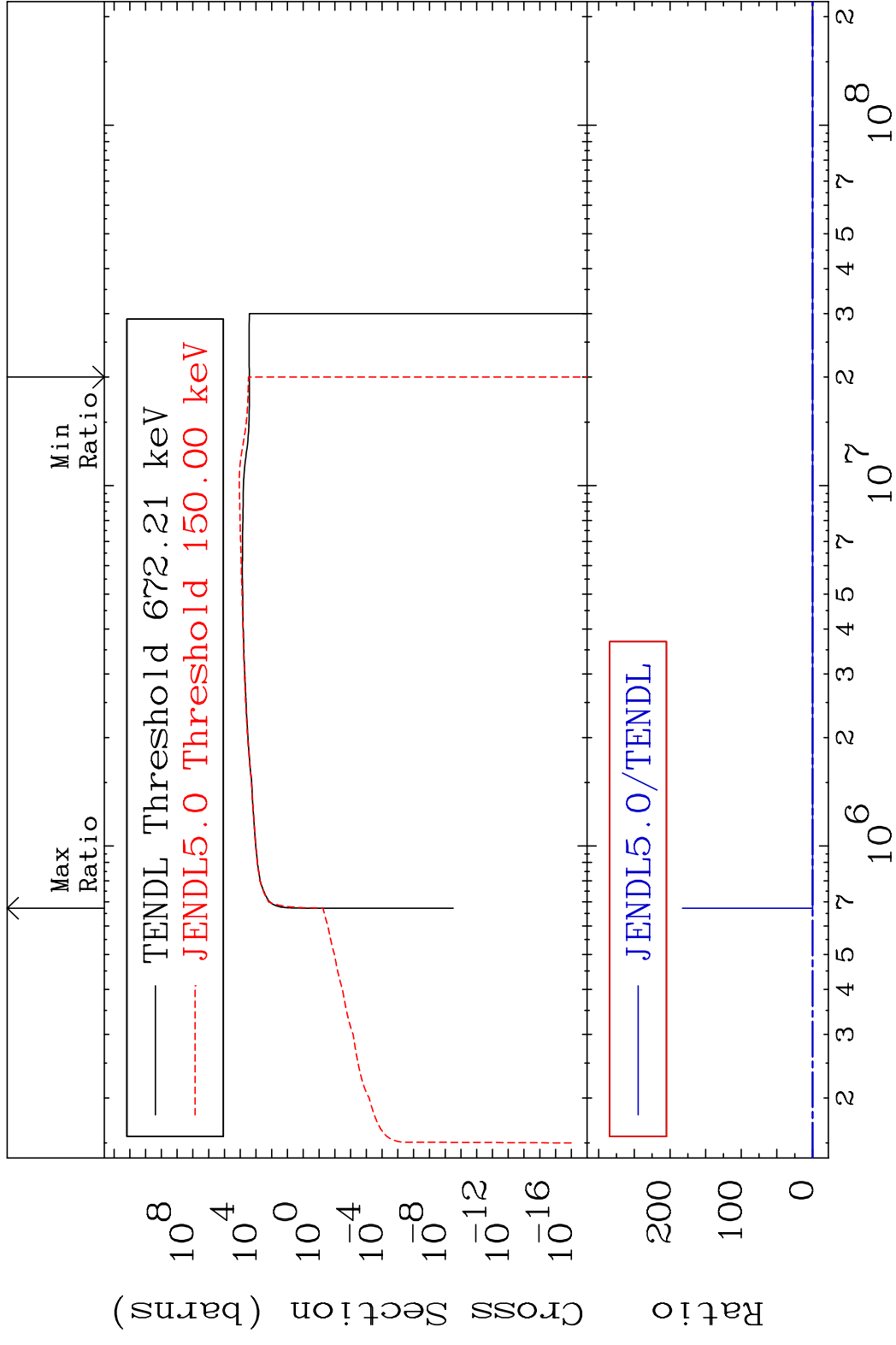


50

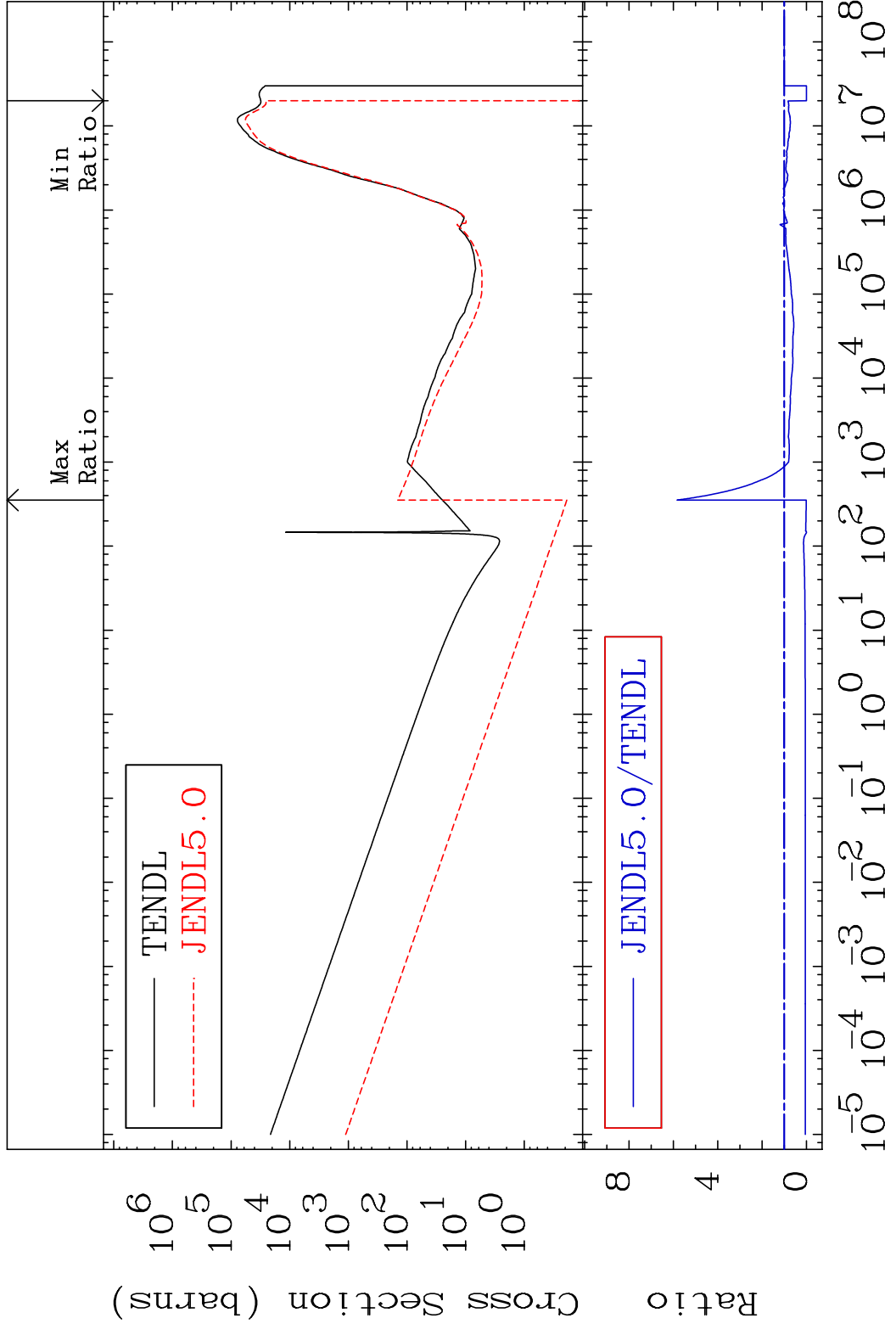
Incident Energy (eV)

46-Pd-100

MAT 4619 Dpa inelastic (mt51-91) 46-Pd-100  
 Cross Section -100.0 To 9999. %

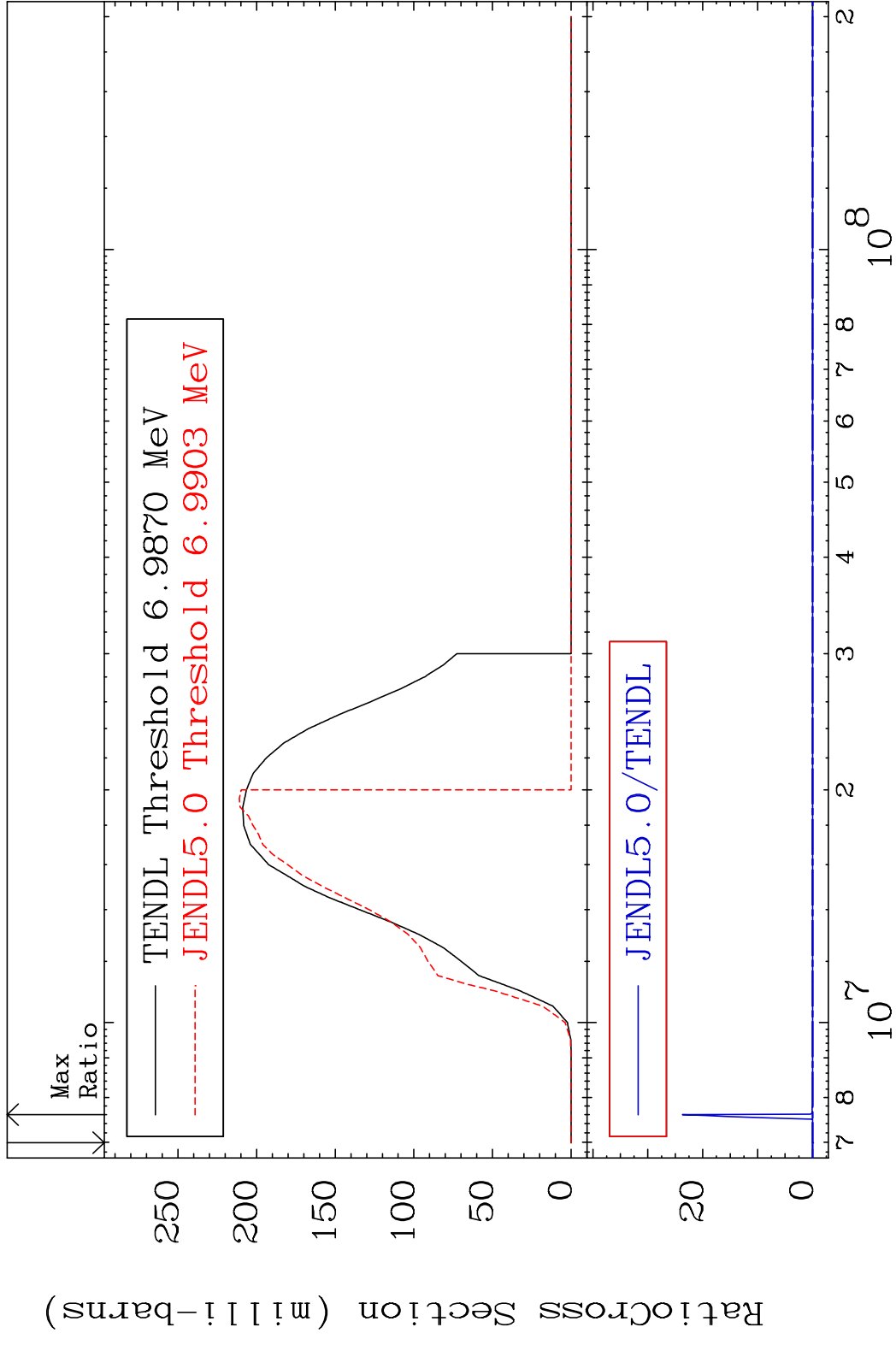


MAT 4619 Dpa disappearance (mt102 -120) 46-Pd-100  
 Cross Section -100.0 To 482.6 %

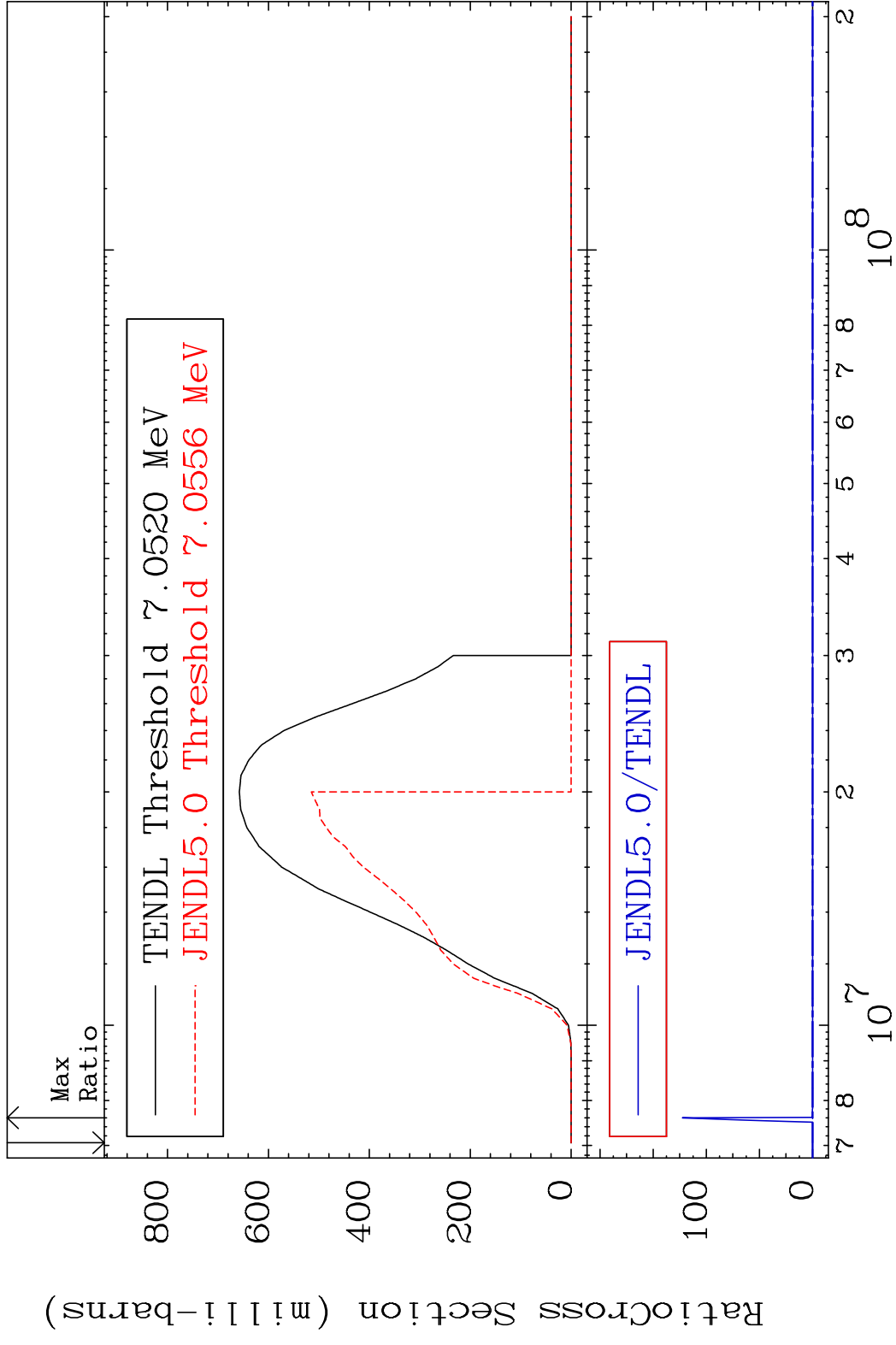


52 Incident Energy (eV) 46-Pd-100

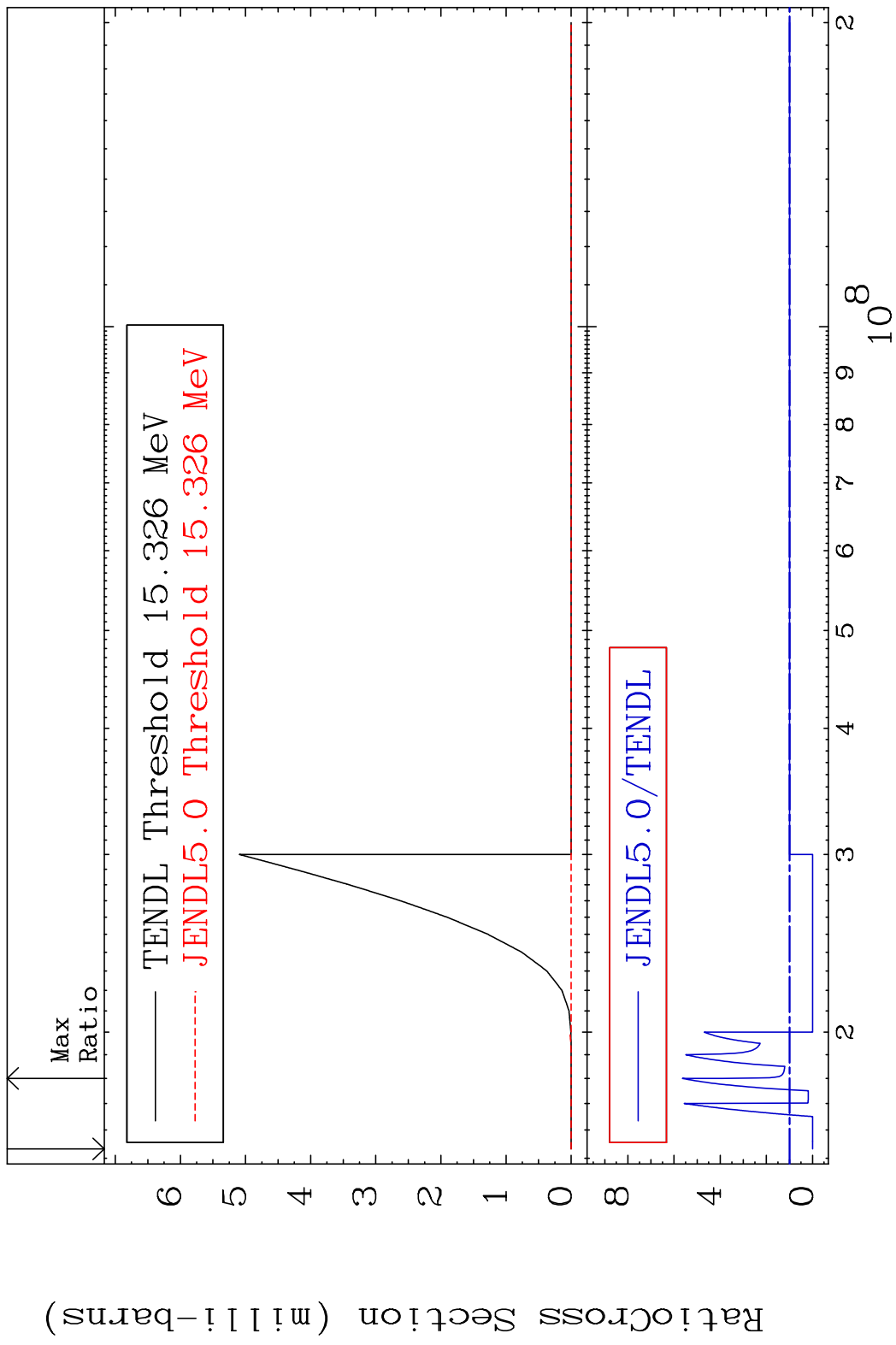
MAT 4619 (n, n') p:45-Rh-99g 46-Pd-100  
 Radionuclide Production Cross Section 100.00 %



MAT 4619 (n, n') p:45-Rh-99m1 46-Pd-100  
 Radionuclide Production Cross Section 100.00 %

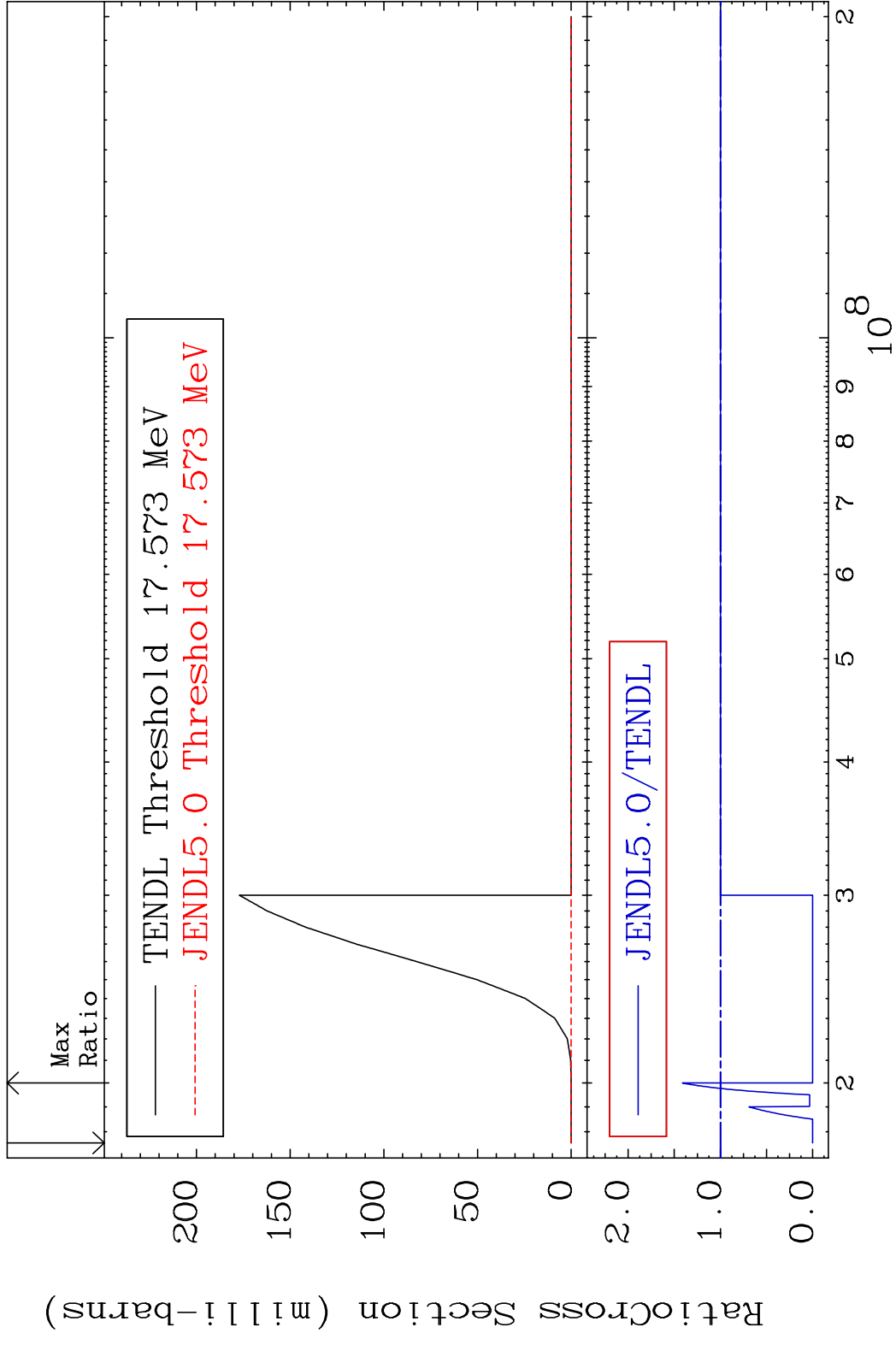


MAT 4619 (n, n') d:45-Rh-98g 46-Pd-100  
 Radionuclide Production Cross Section 180.0 dth 464.1 %

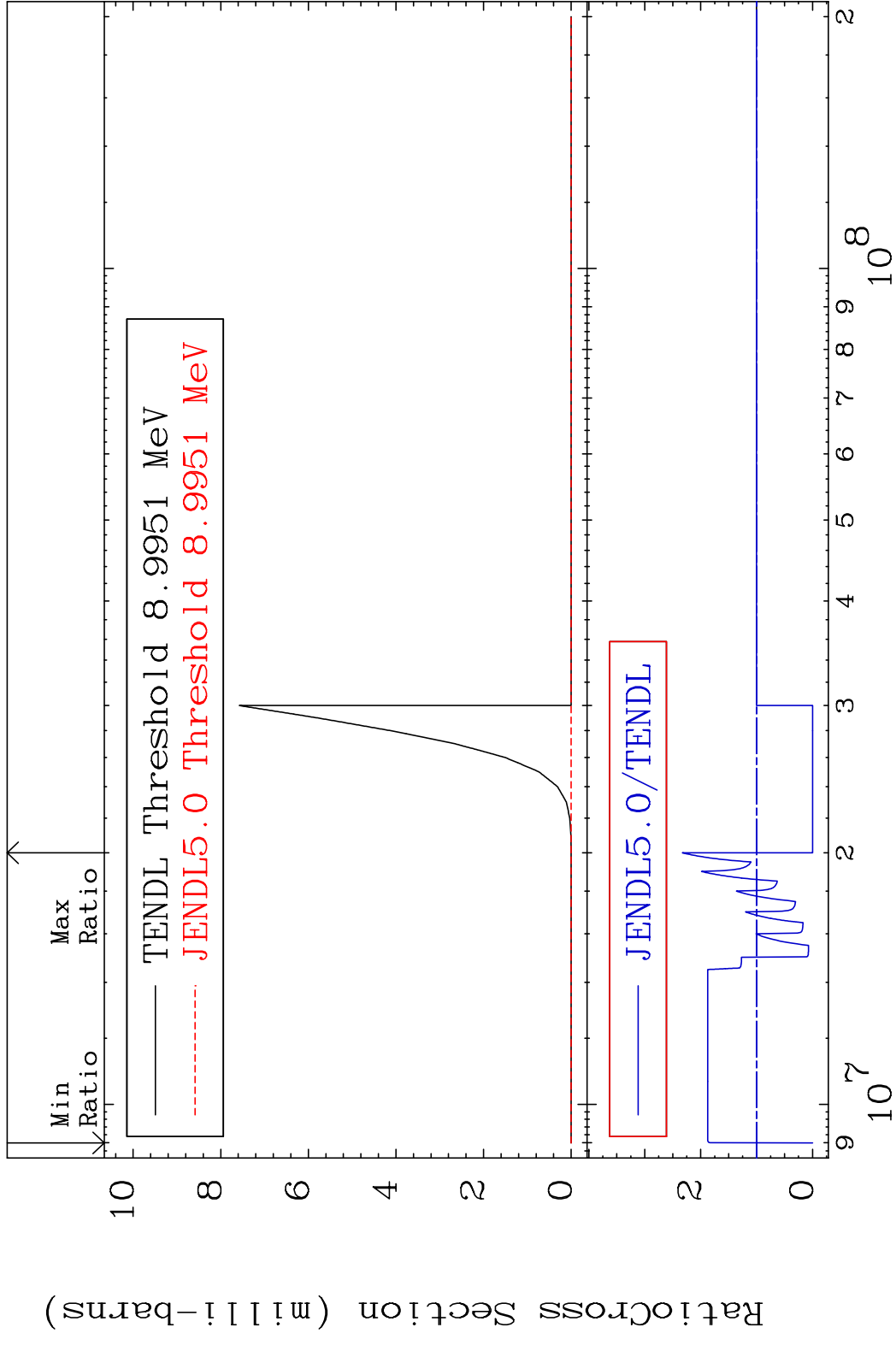




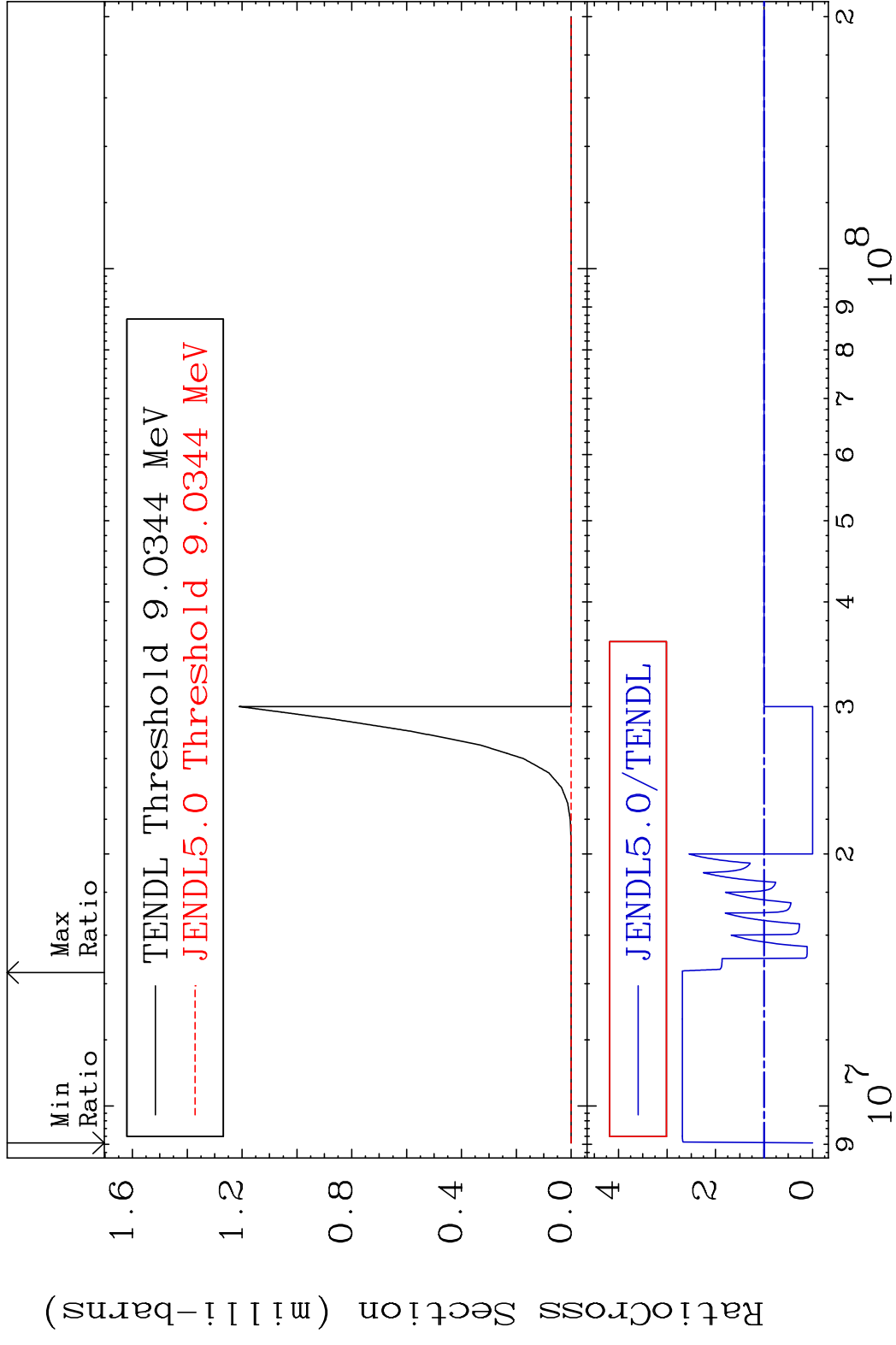
MAT 4619 (n,2n) p:45-Rh-98g 46-Pd-100  
 Radionuclide Production Cross Section 180.0 mb 41.25 %



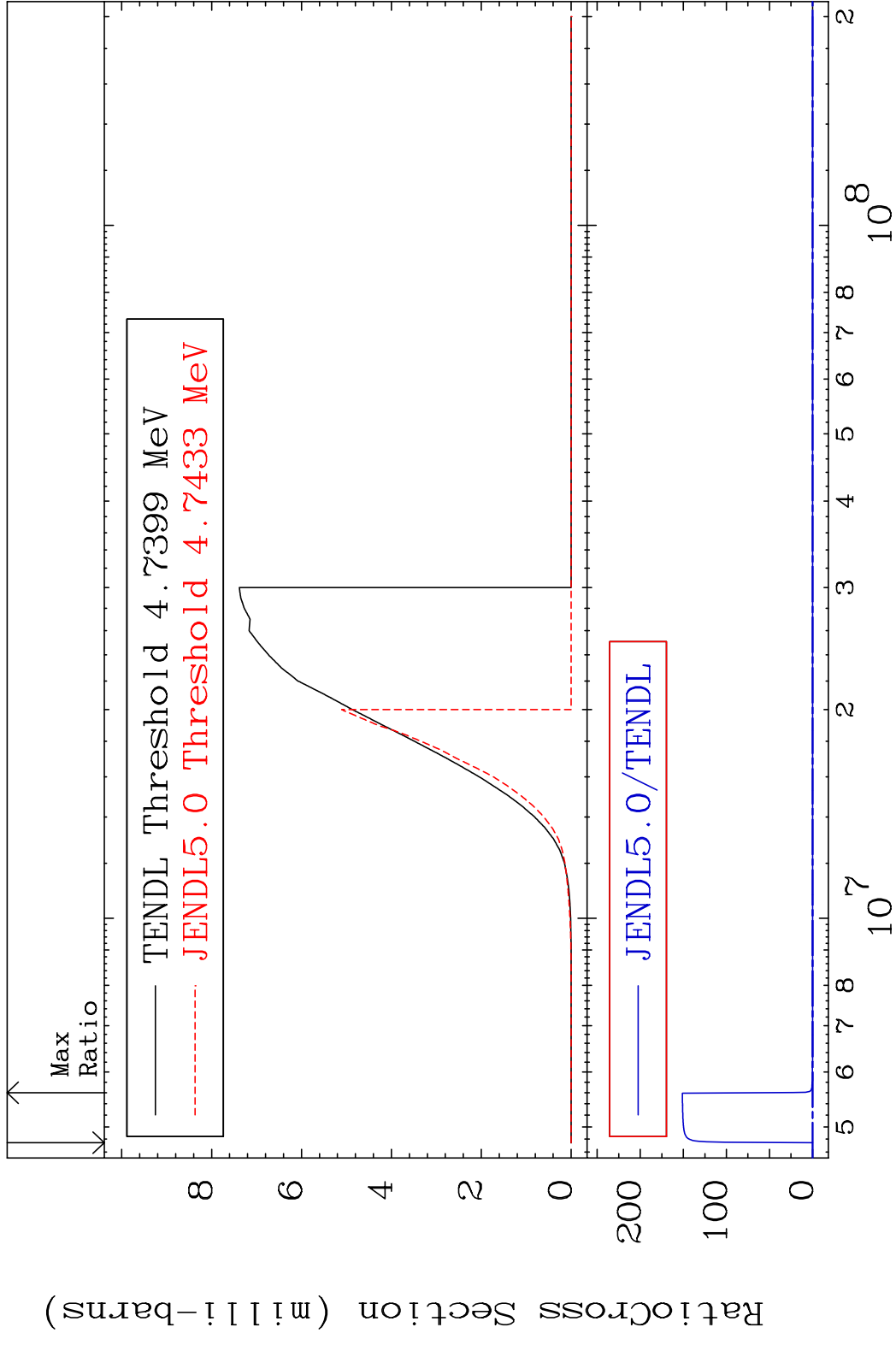
MAT 4619 (n, n') p  $\alpha$ :43-Tc-95g 46-Pd-100  
 Radionuclide Production Cross Section 132.8 %



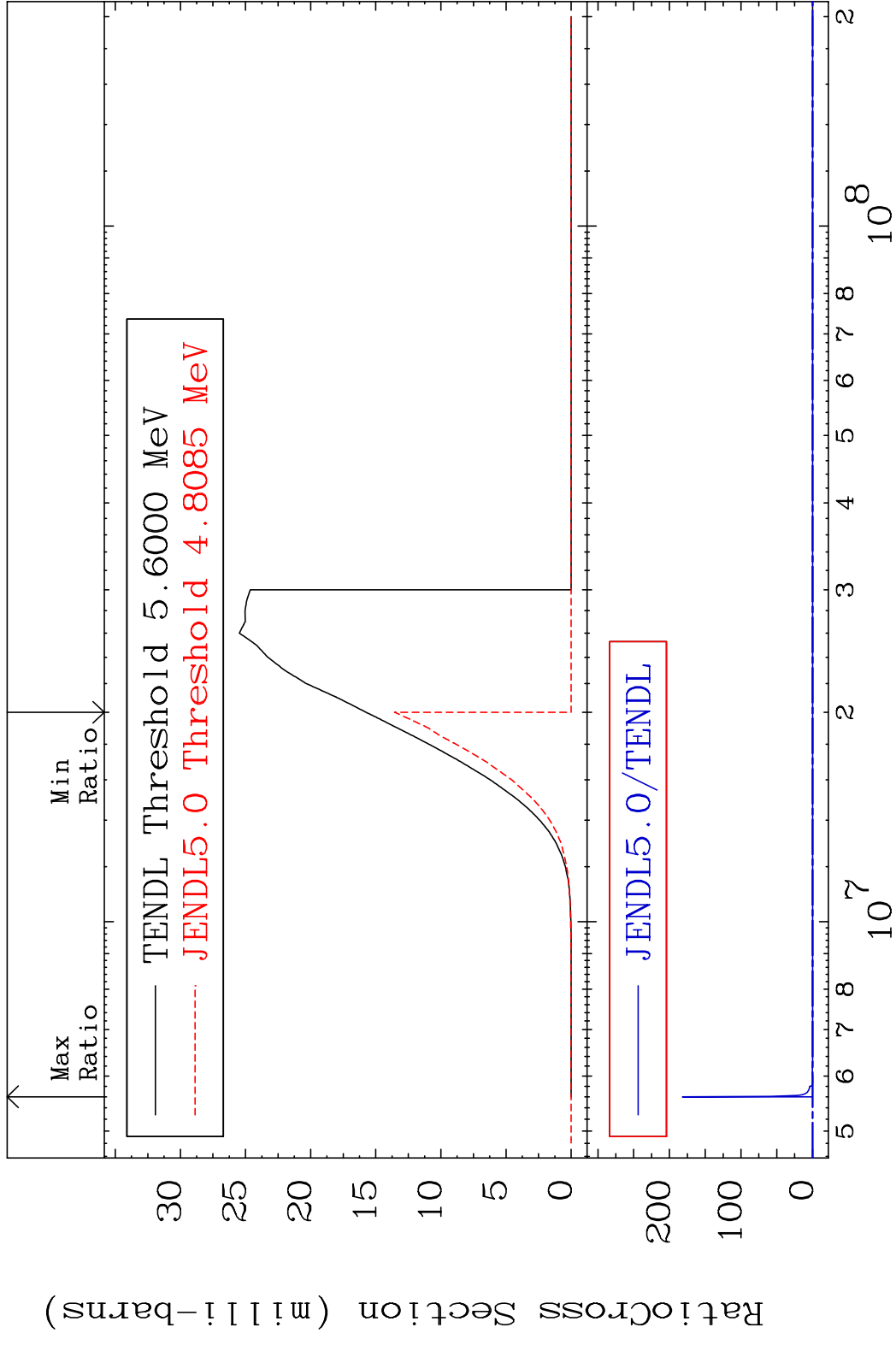
57 Incident Energy (eV) 46-Pd-100



MAT 4619 (n,d):45-Rh-99g 46-Pd-100  
 Radionuclide Production Cross Section (%)

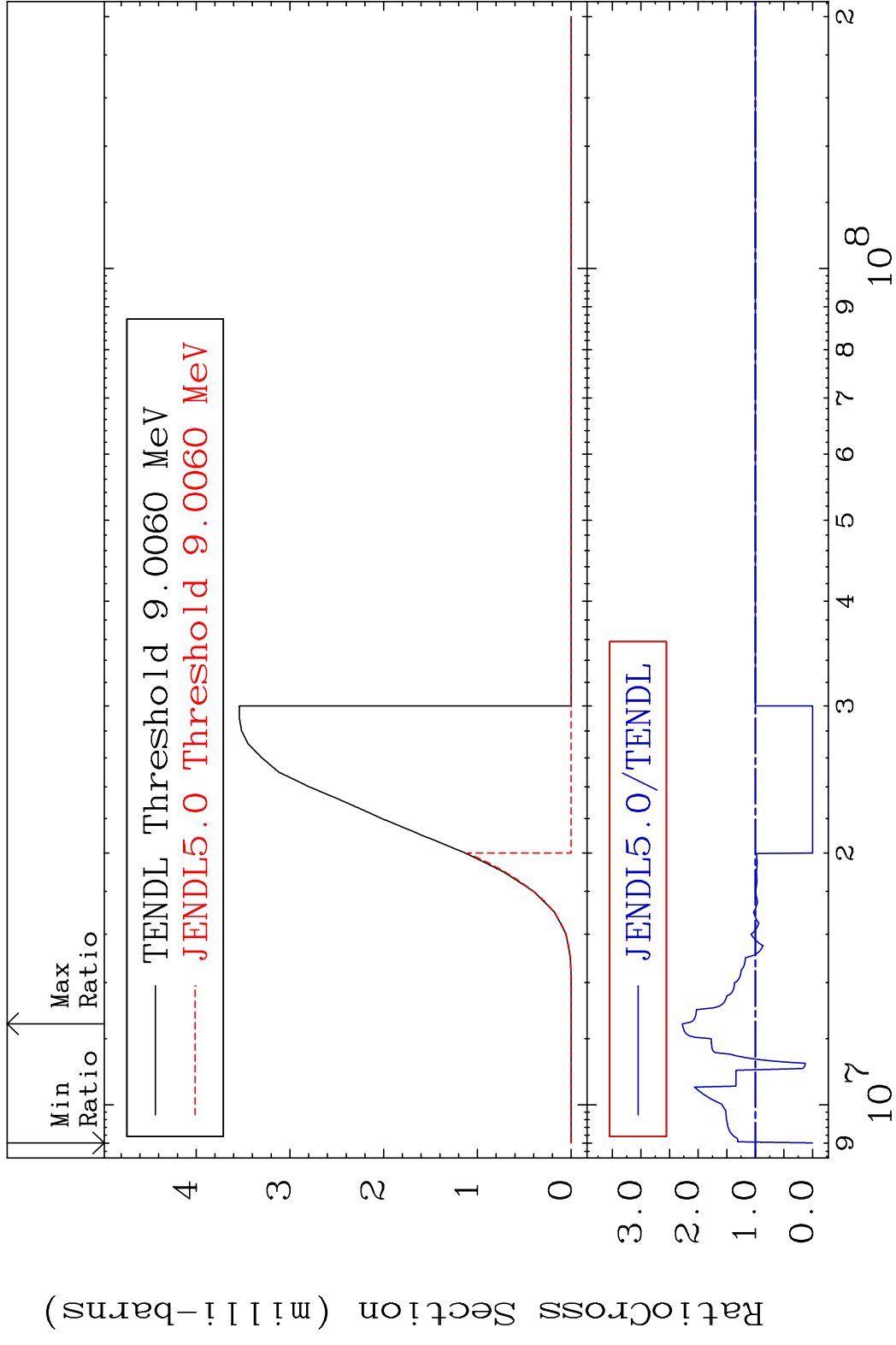


MAT 4619 (n, d) : 45-Rh-99m1 46-Pd-100  
 Radionuclide Production Cross Section (%)

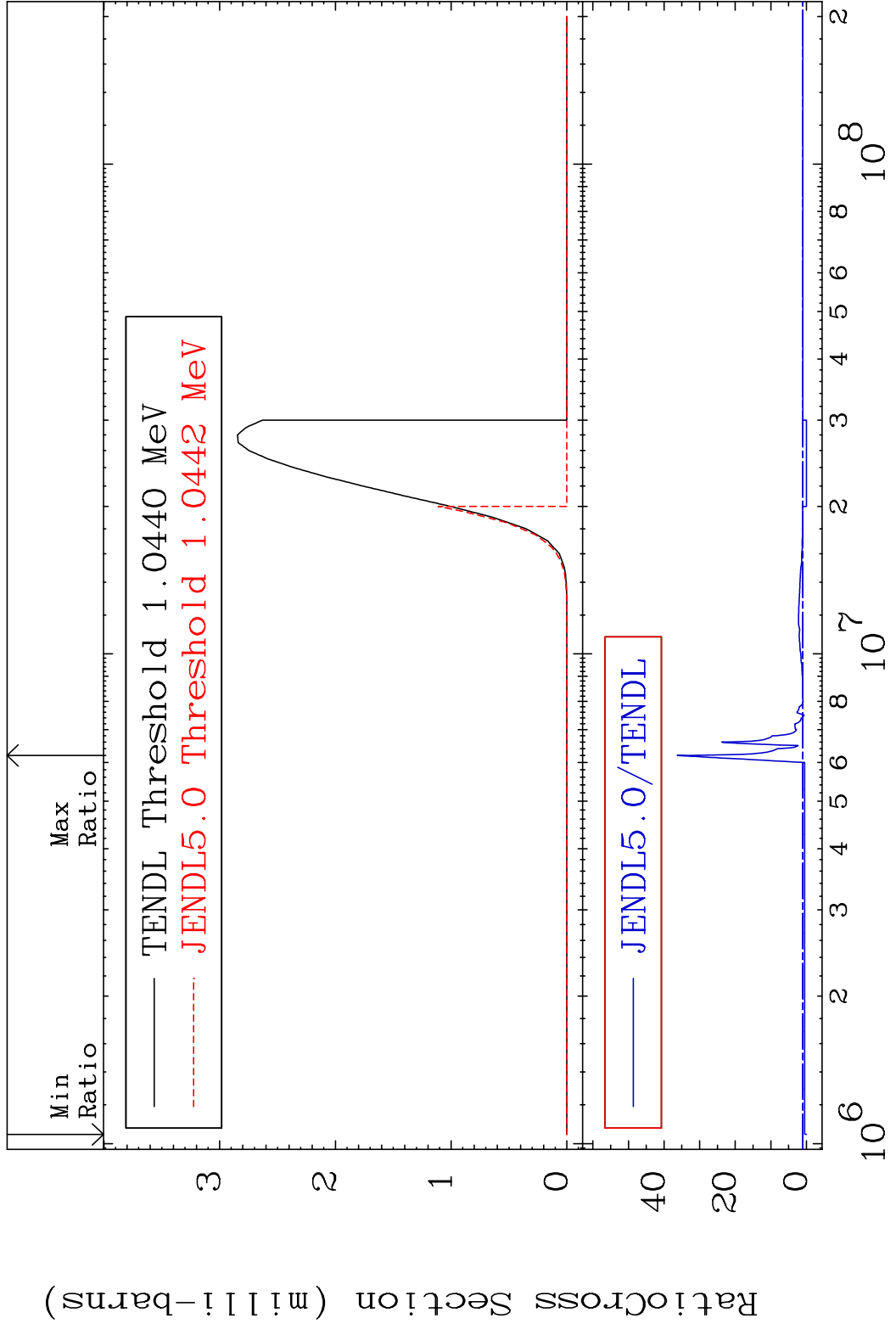


60 Incident Energy (eV) 46-Pd-100

MAT 4619 (n, t): 45-Rh-98g 46-Pd-100  
 Radionuclide Production Cross Section 180.0 mb 127.7 %

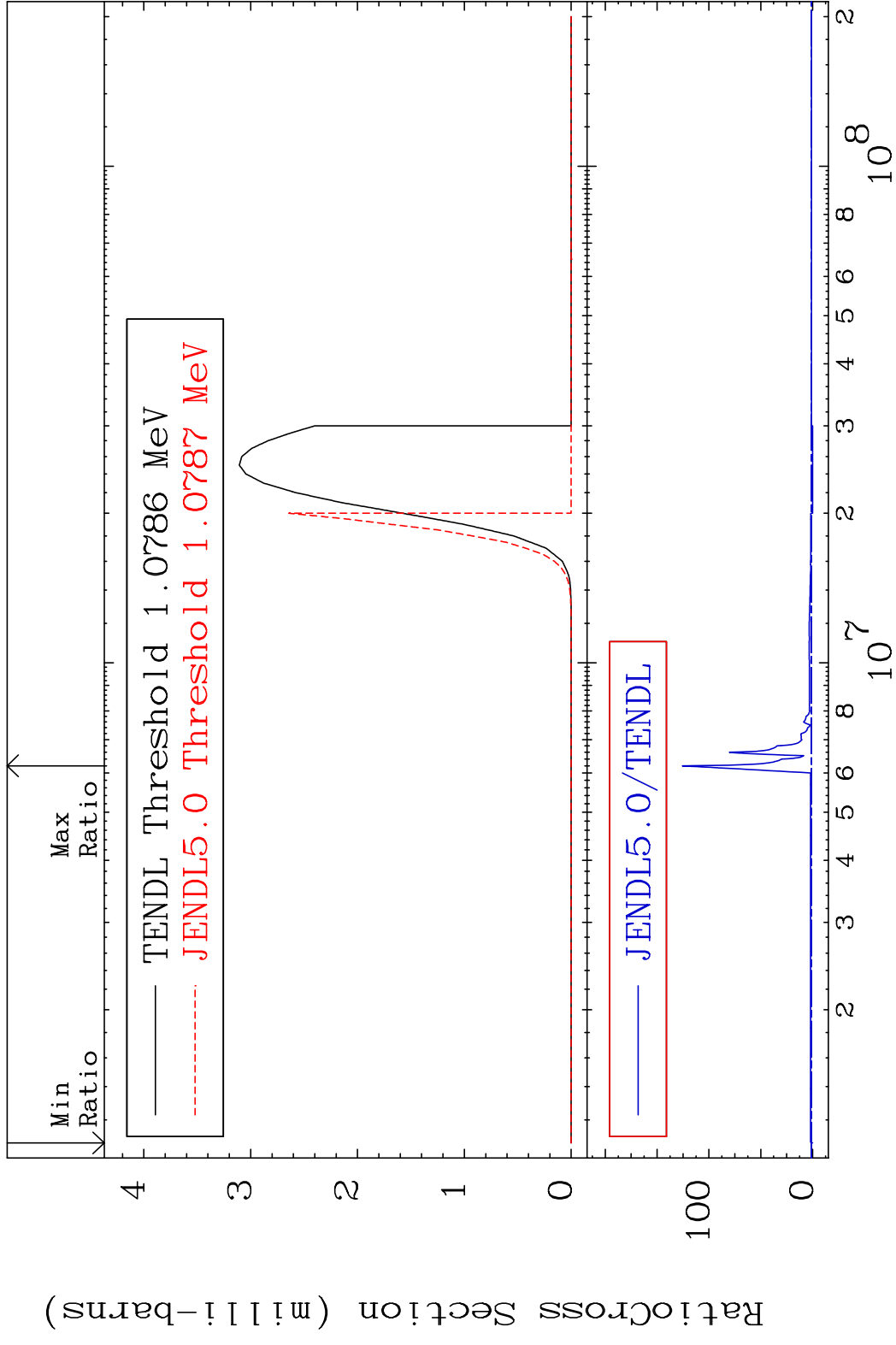


MAT 4619 (n, p)  $\alpha$ :43-Tc-96g 46-Pd-100  
 Radionuclide Production Cross Section 1800.0 dth 3531. %



62 46-Pd-100

MAT 4619 (n, p)  $\alpha$ :43-Tc-96m1 46-Pd-100  
 Radionuclide Production Cross Section Ratio 9999. %





MAT 4619 (n,d)  $\alpha$ :43-Tc-95g 46-Pd-100  
 Radionuclide Production Cross Section 1800 d to 1174. %

