

Program Complot  
(Version 2018-1)

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](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

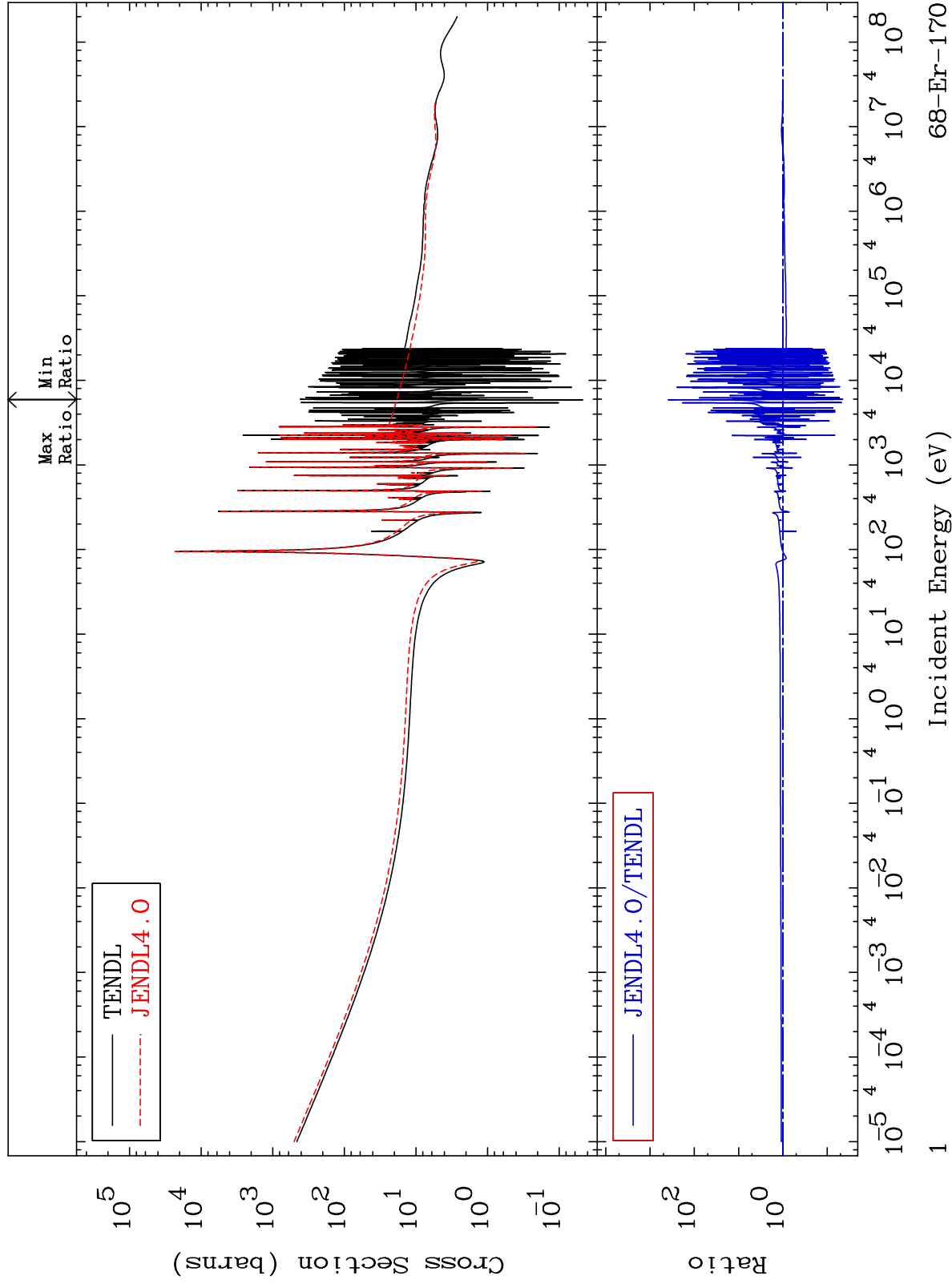
MAT 6849

Total

68-Er-170

Cross Section

-95.57 To 9999. %



Incident Energy (eV)

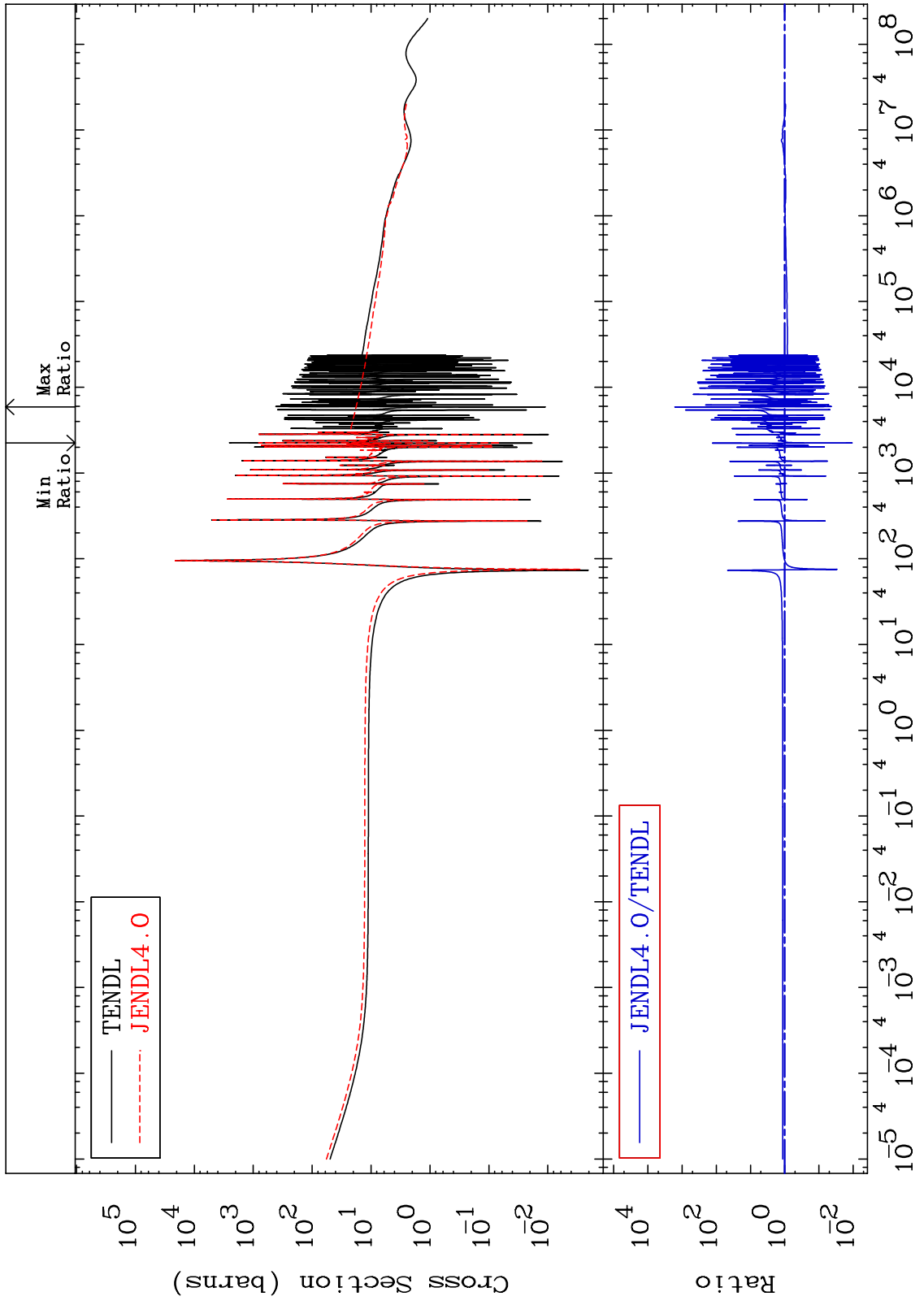
68-Er-170

1

MAT 6849

Elastic  
Cross Section

68-Er-170  
-98.94 To 9999. %



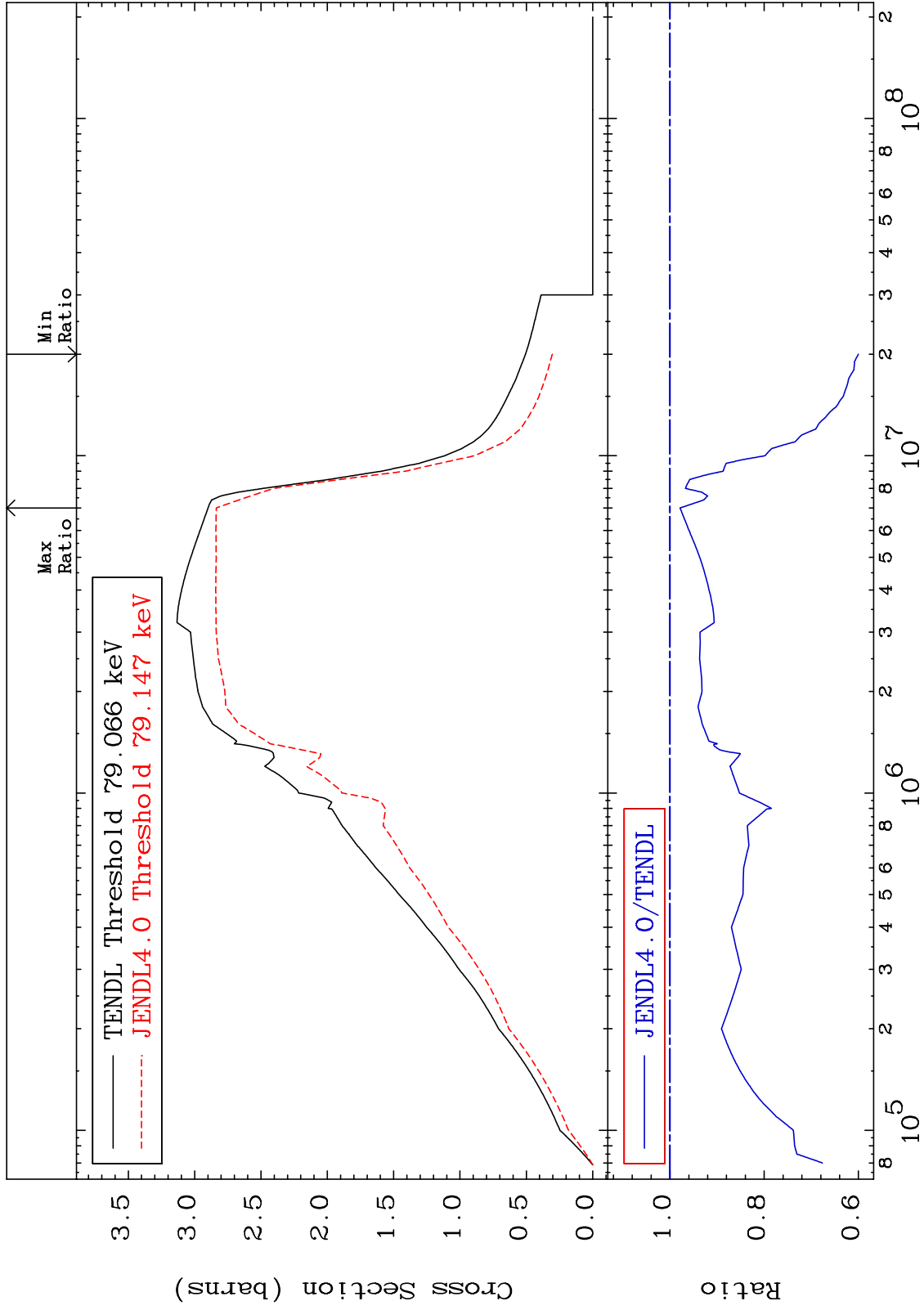
2

Incident Energy (eV)

68-Er-170

MAT 6849

Inelastic Cross Section  
68-Er-170  
-39.99 To -2.135%



3 68-Er-170

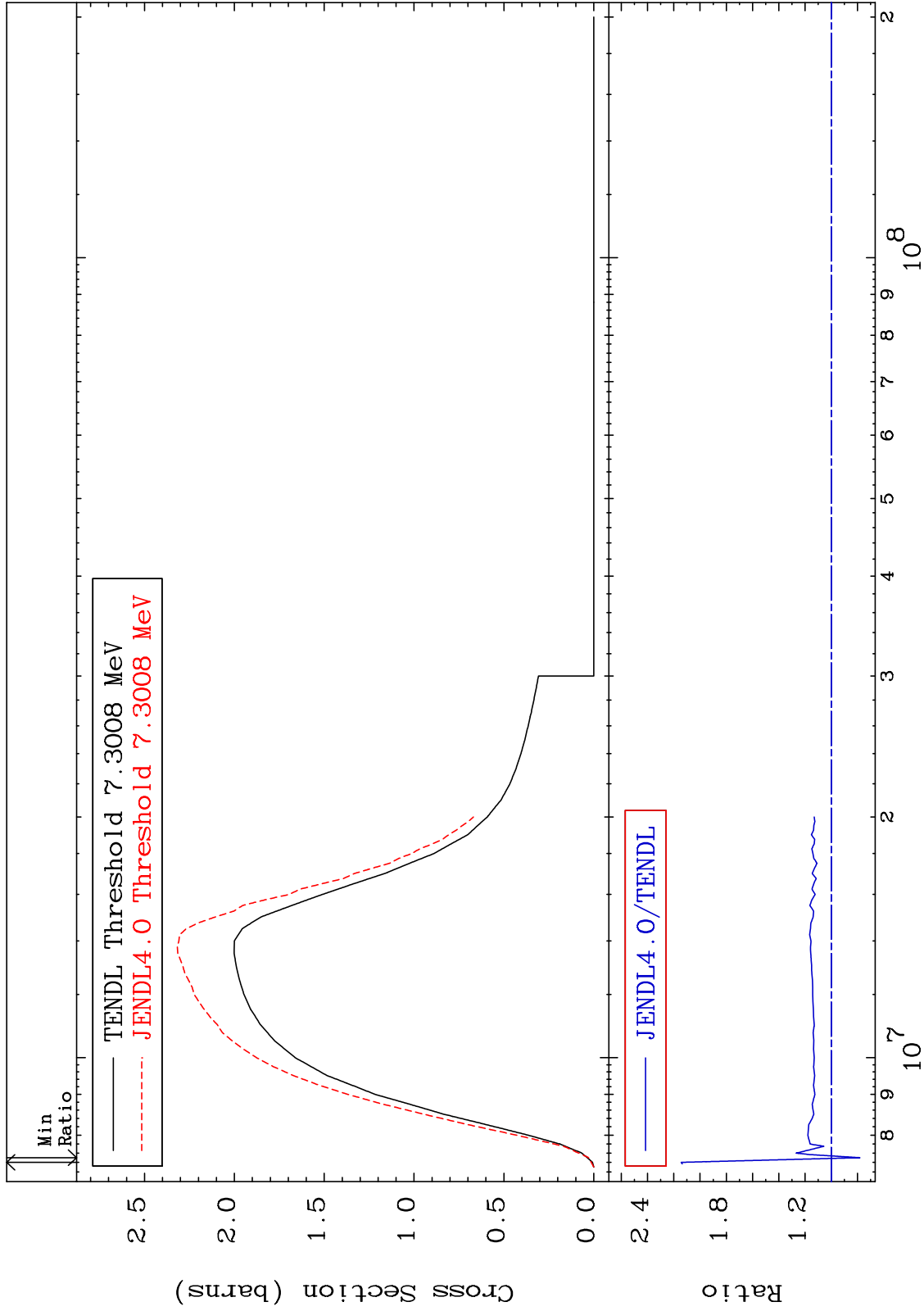
MAT 6849

(n,2n)

68-Er-170

Cross Section

-21.84 To 114.3 %



MAT 6849

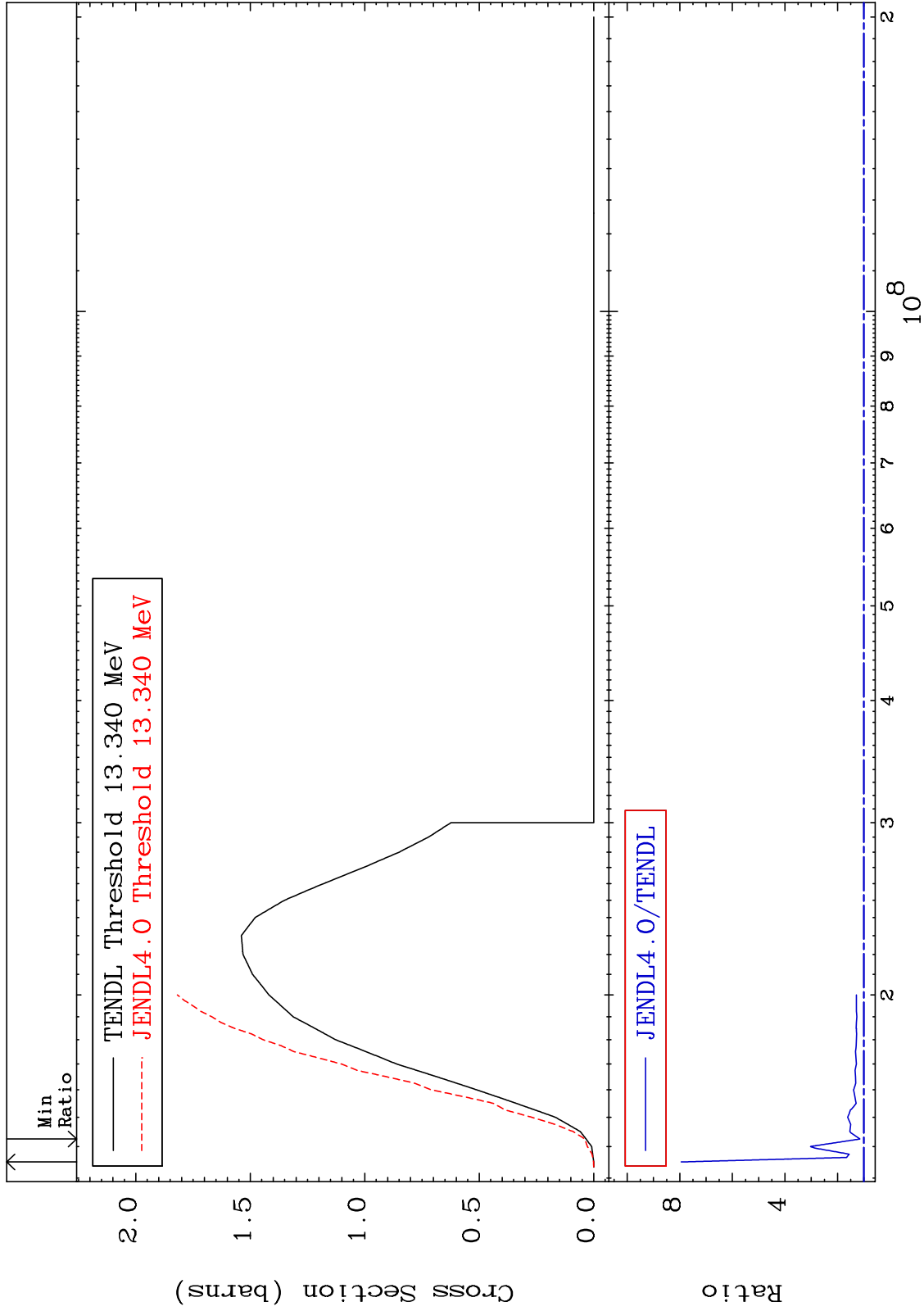
(n, 3n)

68-Er-170

Cross Section

14.86

To 694.5 %



Incident Energy (eV)

68-Er-170

5

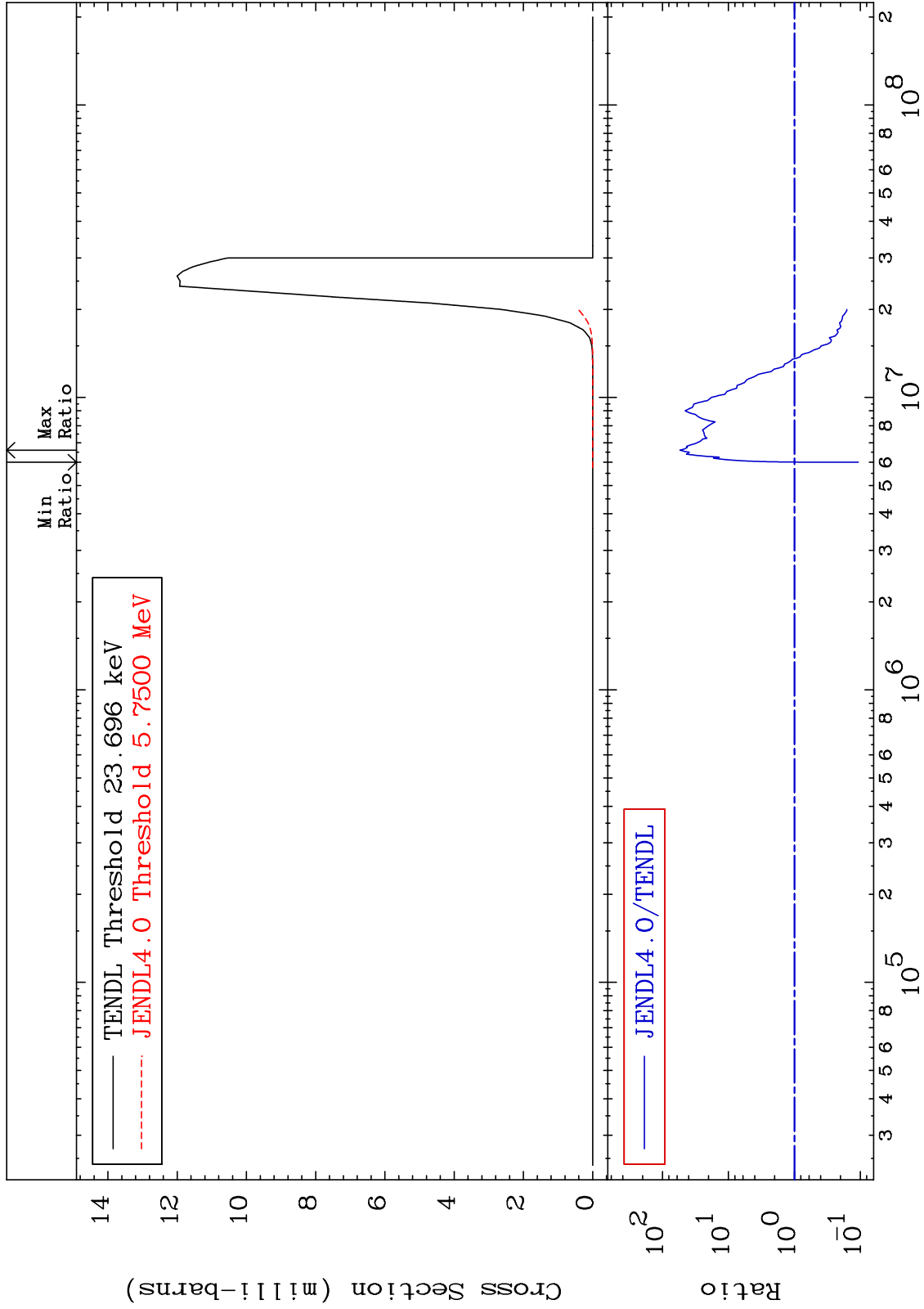
MAT 6849

(n, n')  $\alpha$

68-Er-170

Cross Section

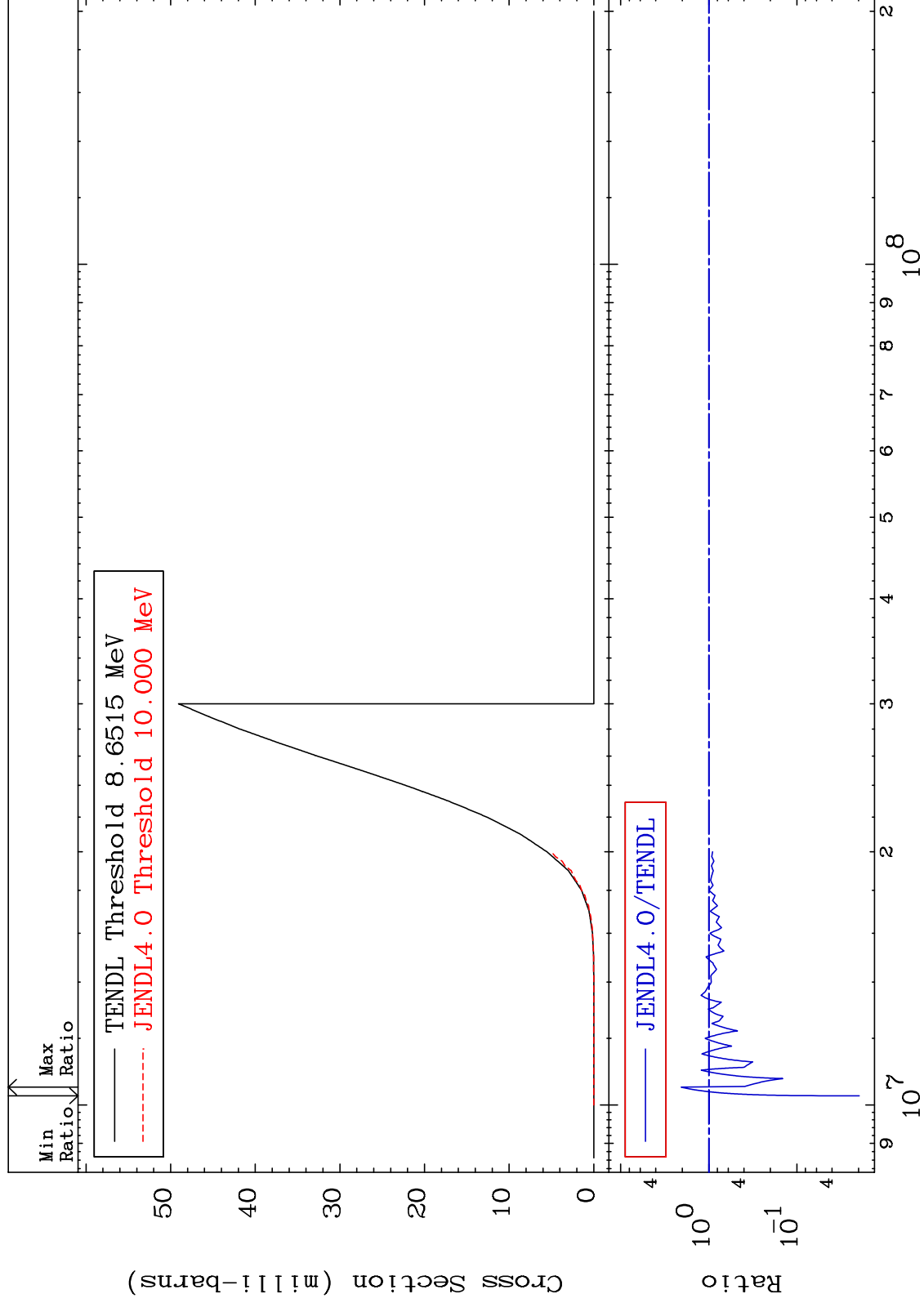
-89.32 To 5332. %



MAT 6849

(n,n') p  
Cross Section

68-Er-170  
-98.04 To 106.6 %



7

Incident Energy (eV)

68-Er-170



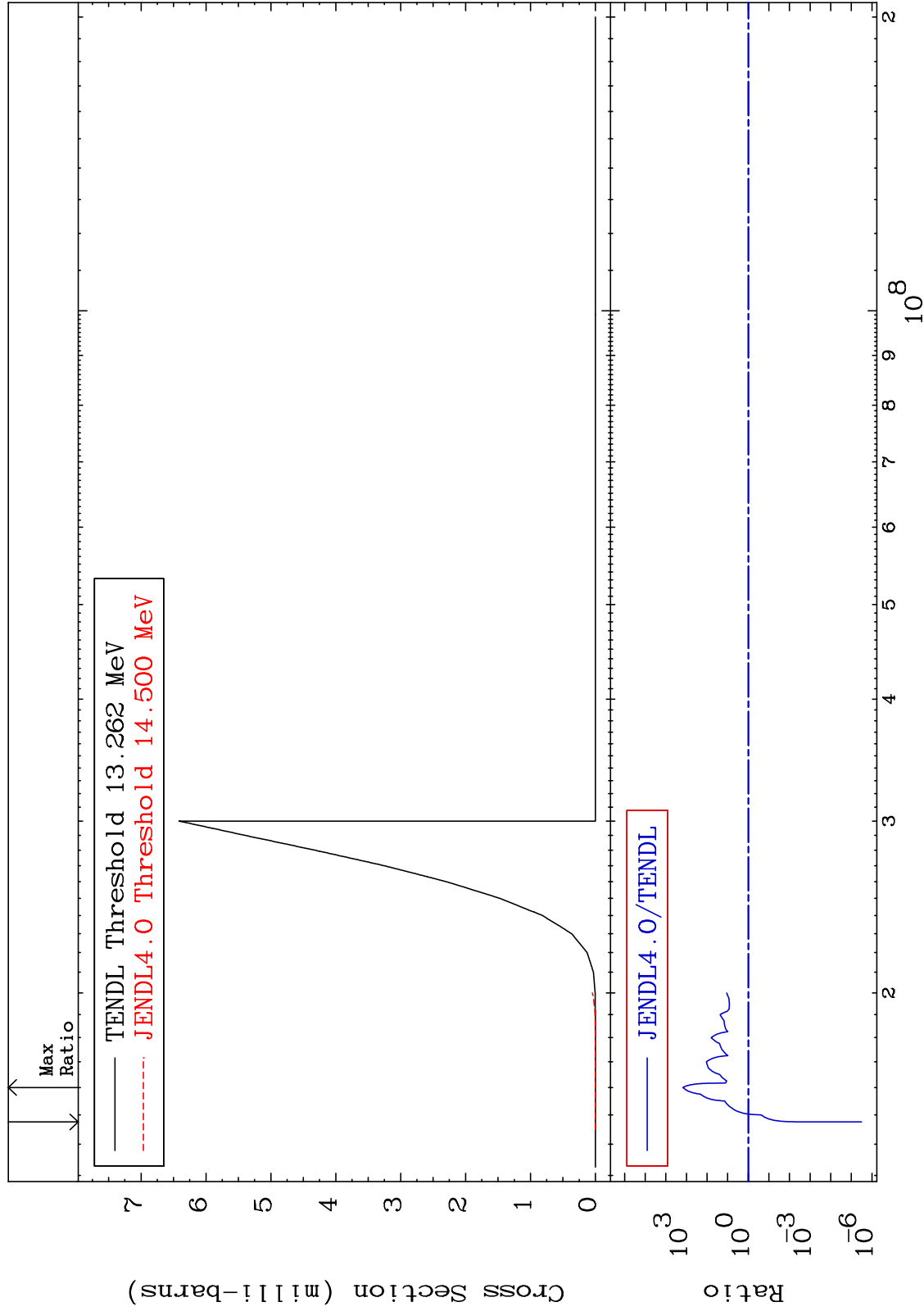
MAT 6849

(n, n') d

68-Er-170

Cross Section

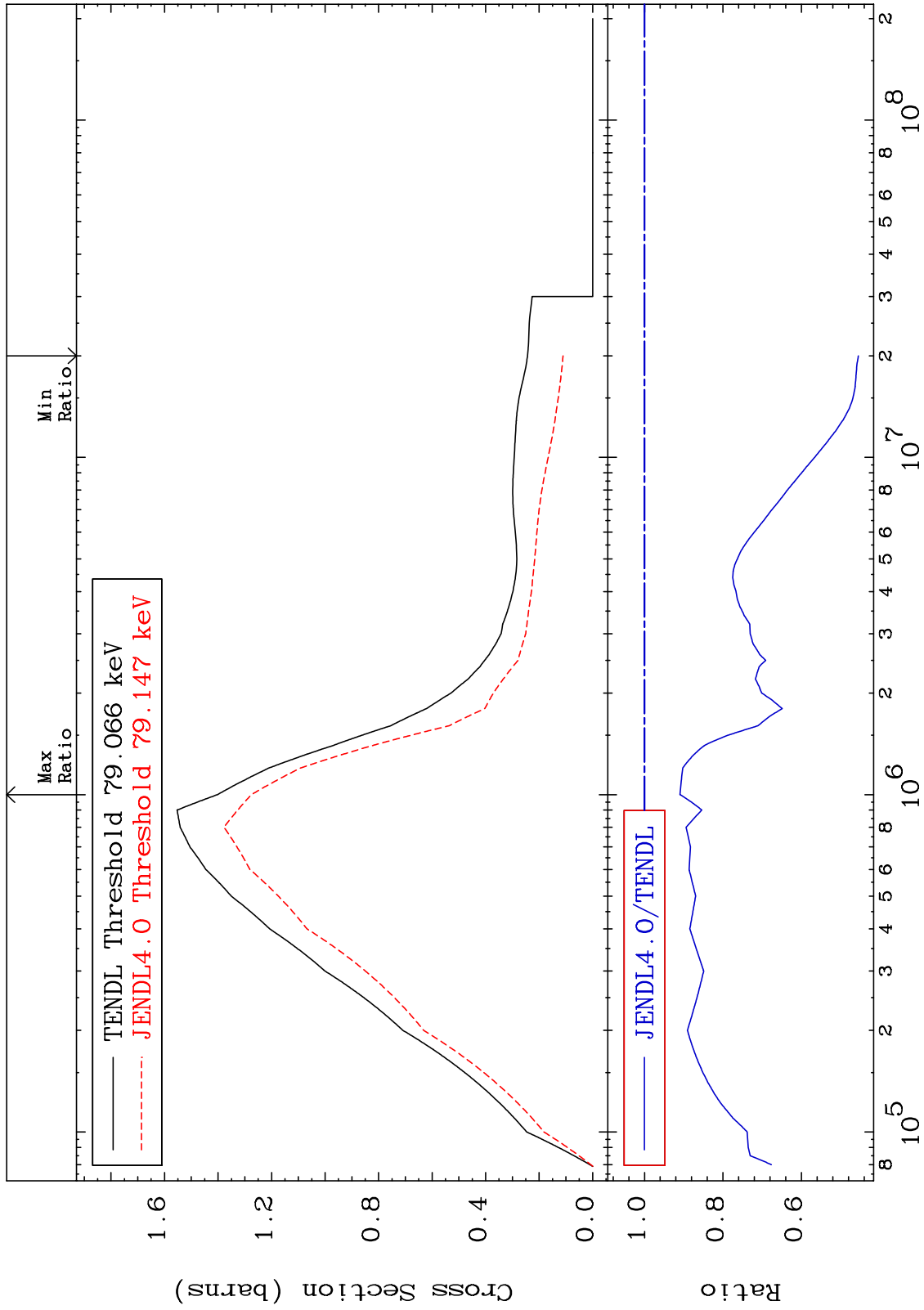
-100.0 To 9999. %



MAT 6849

MT= 51 (n,n') Level  
Cross Section

68-Er-170  
-54.53 To -9.051%

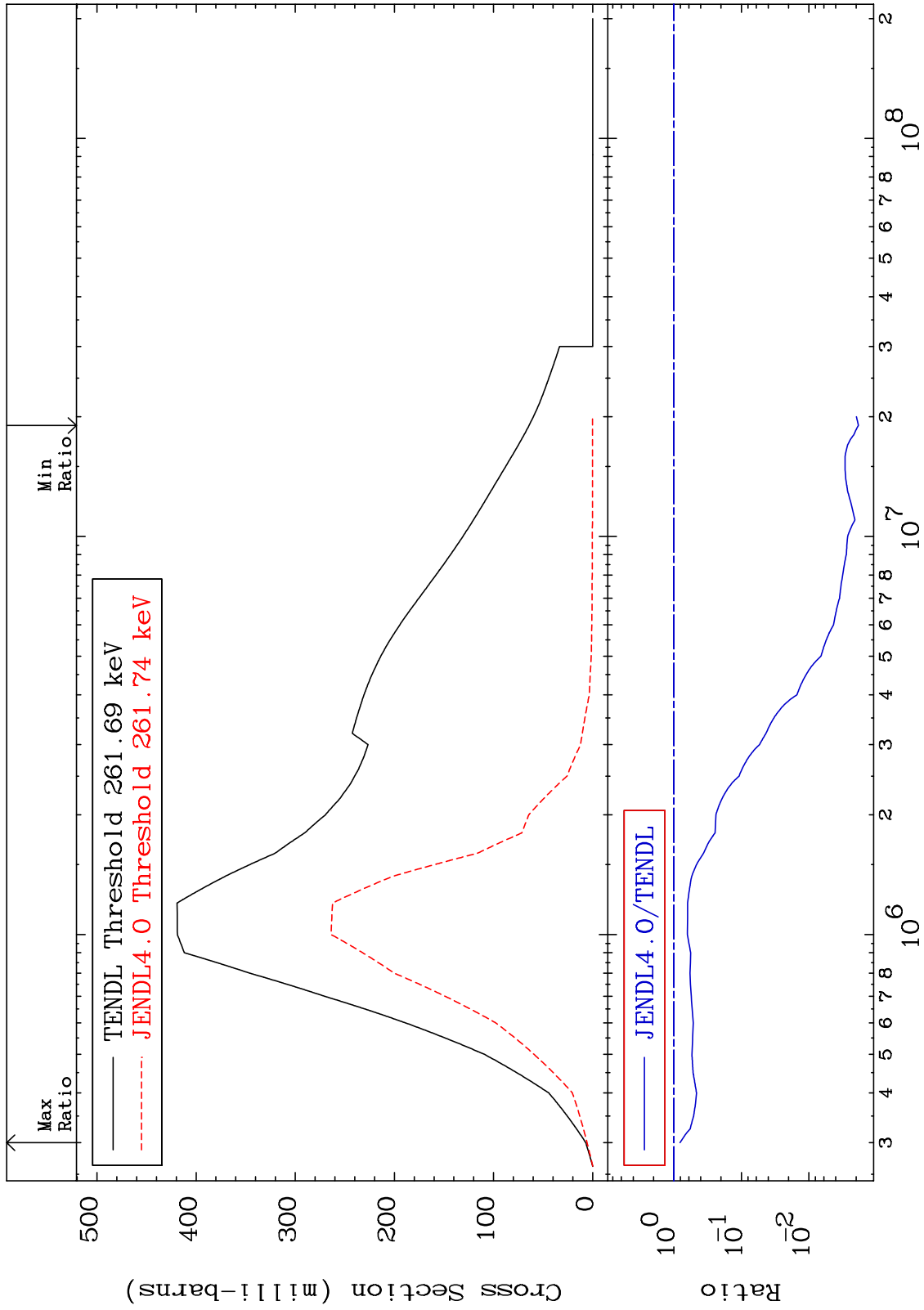


9

Incident Energy (eV)

68-Er-170

MAT 6849      MT= 52 (n,n') Level      68-Er-170  
 Cross Section      -99.82 To -18.96%

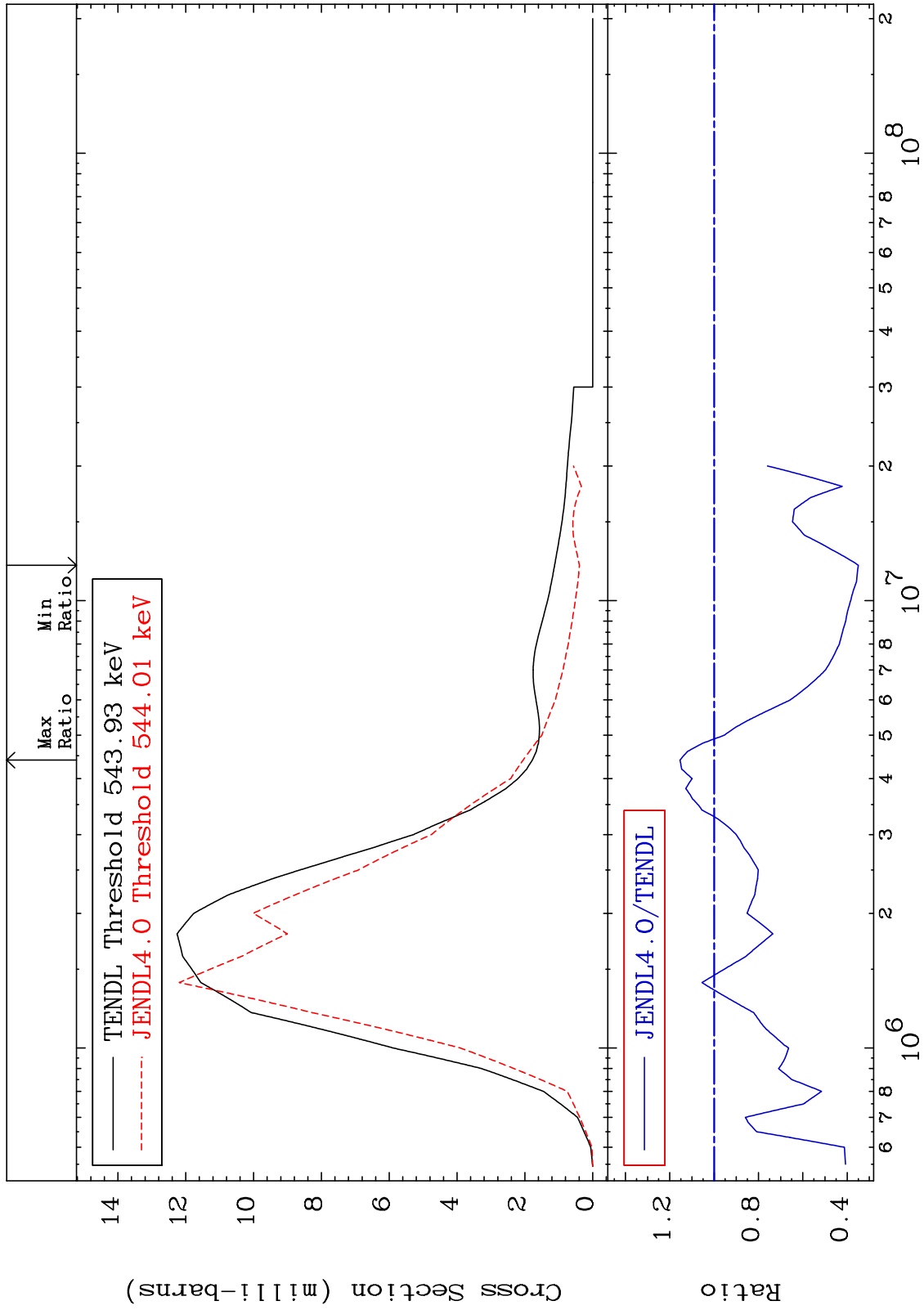


10      10<sup>3</sup> 4 5 6 7 8      10<sup>6</sup> 2      10<sup>7</sup> 3 4 5 6 7 8      10<sup>8</sup>      68-Er-170

MAT 6849

MT= 53 (n,n') Level  
Cross Section

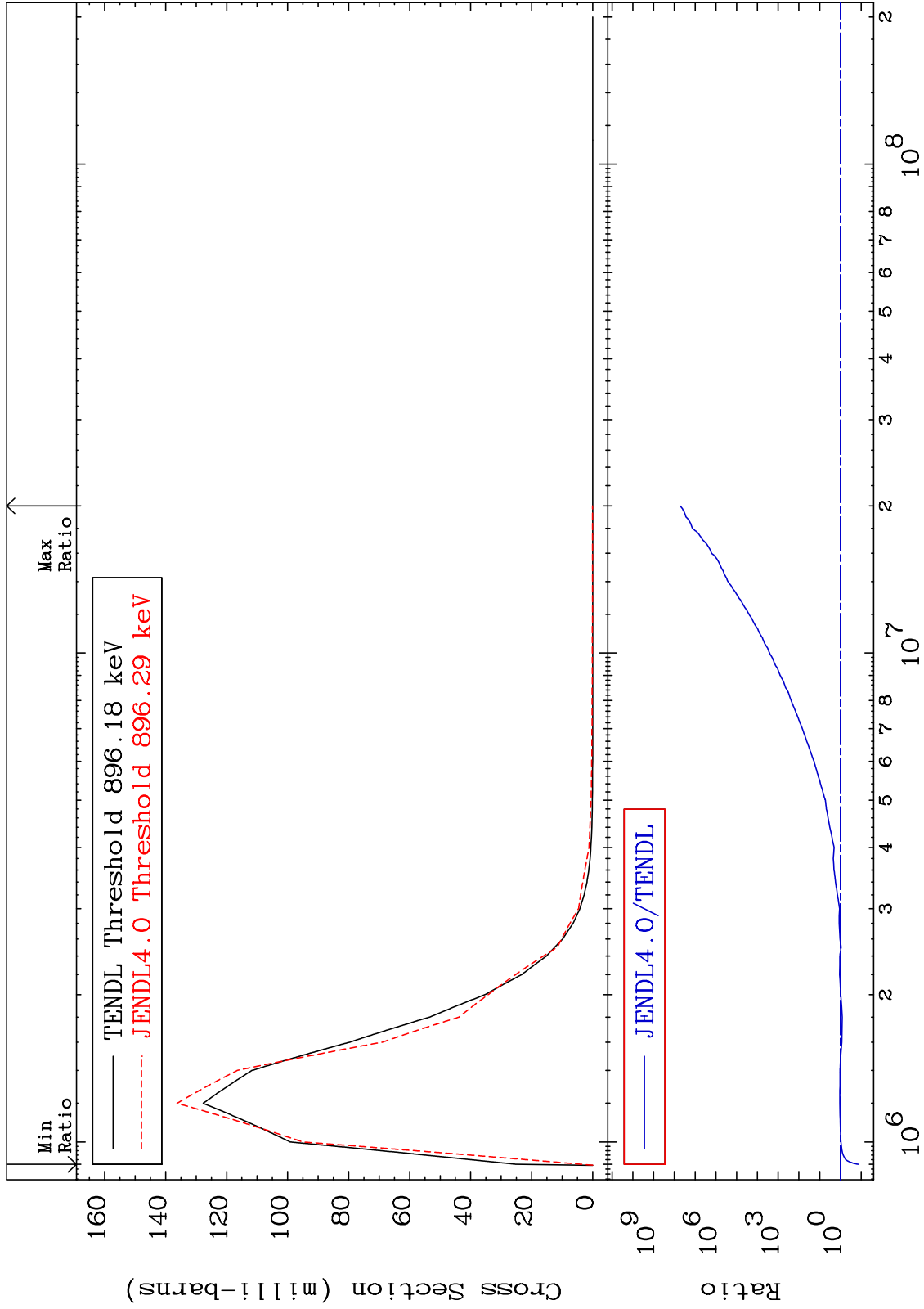
68-Er-170  
-65.07 To 15.38 %



MAT 6849

MT= 54 (n,n') Level  
Cross Section

68-Er-170  
-86.37 To 9999. %

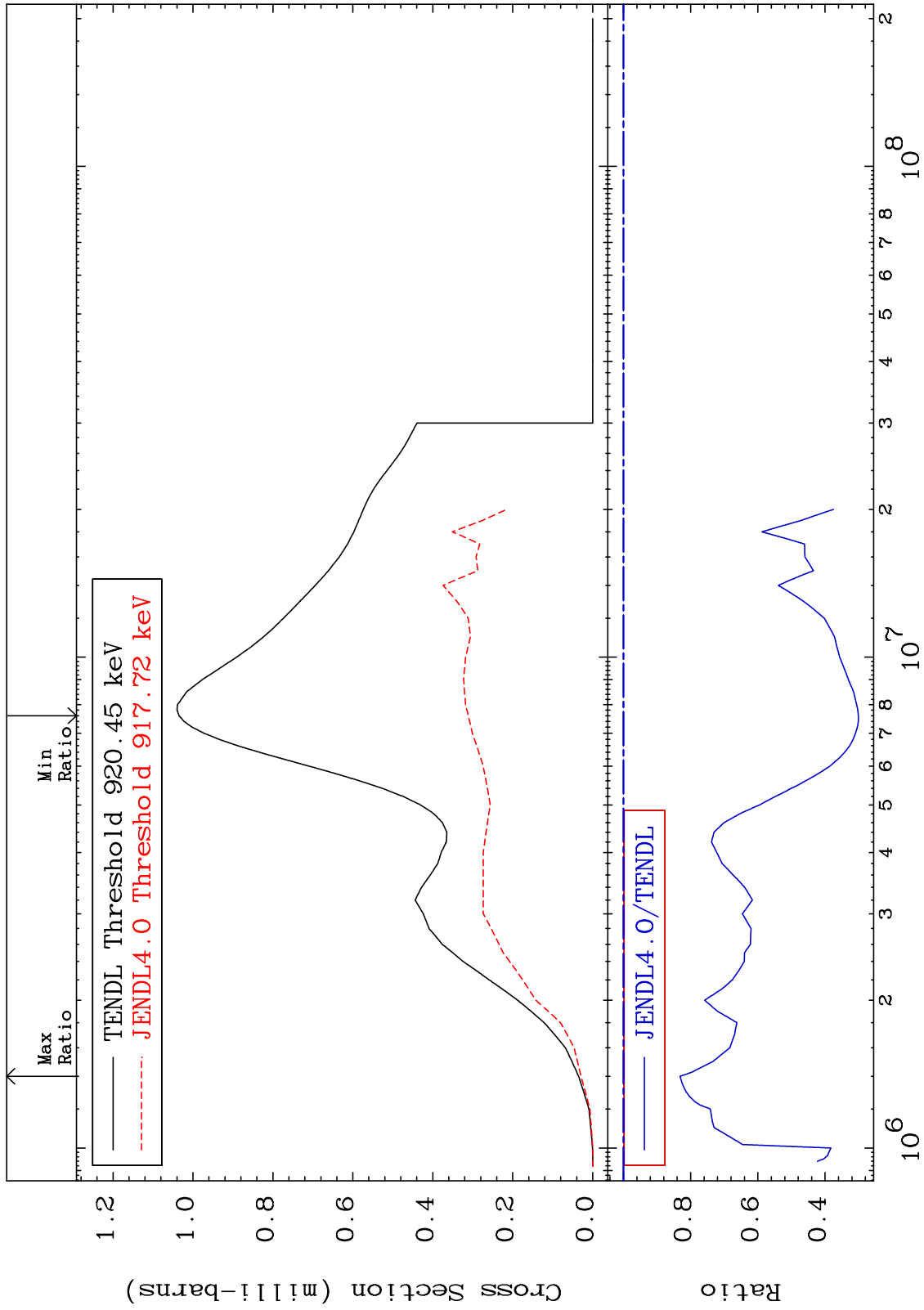


12 68-Er-170

MAT 6849

MT= 55 (n,n') Level  
Cross Section

68-Er-170  
-69.92 To -16.84%



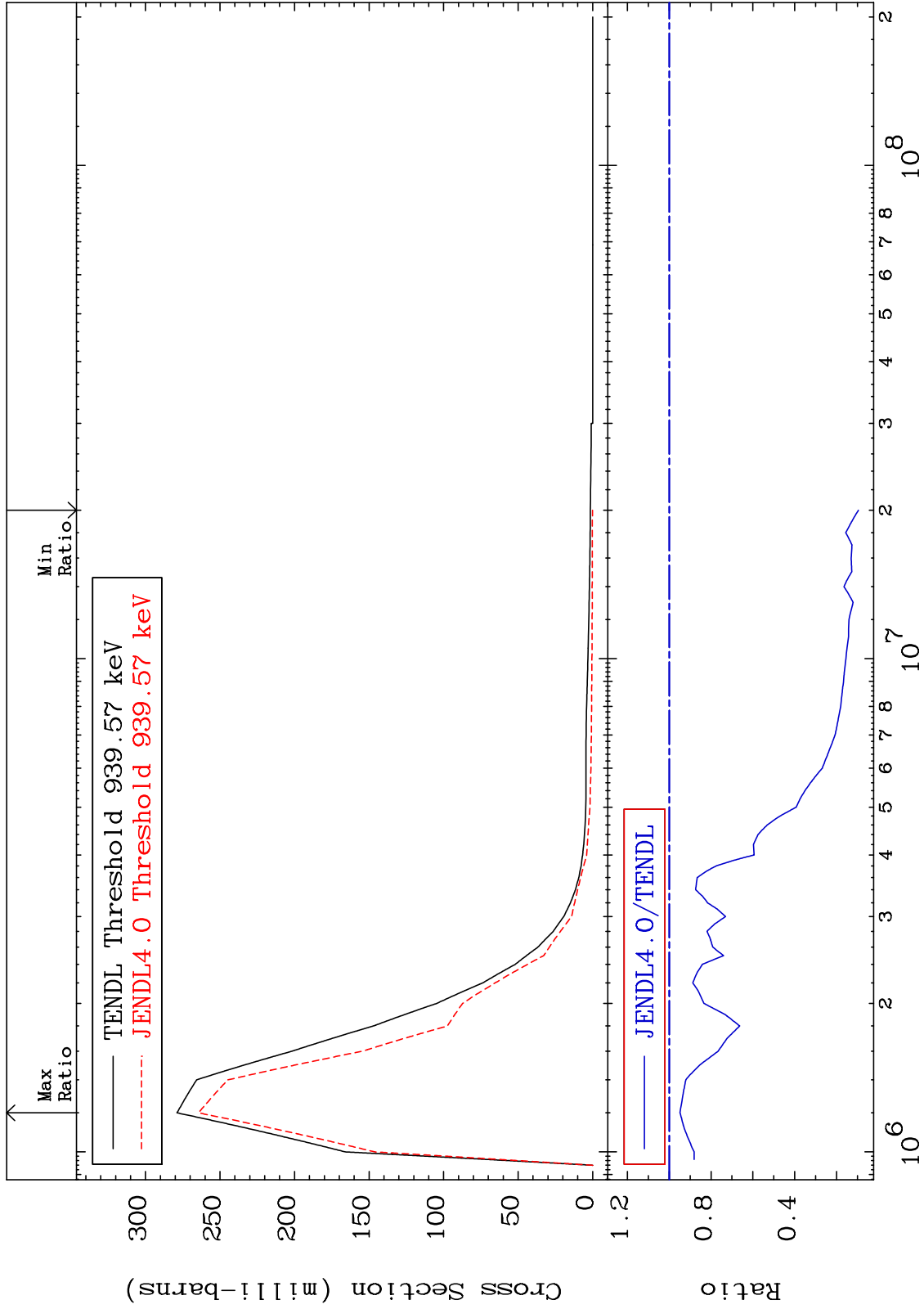
13

68-Er-170

MAT 6849

MT= 56 (n,n') Level  
Cross Section

68-Er-170  
-90.46 To -5.171%



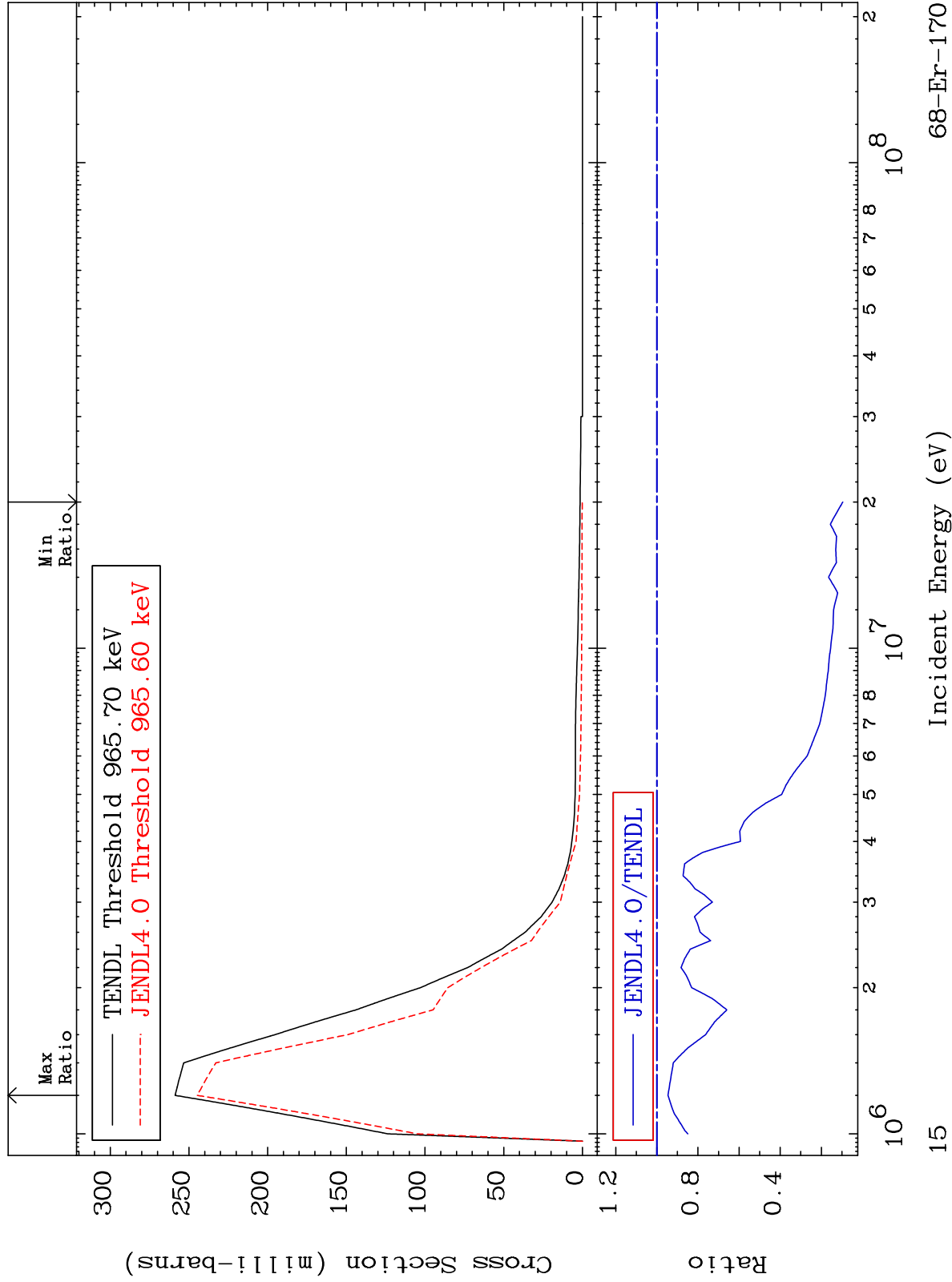
14

68-Er-170

MAT 6849

MT= 57 (n, n') Level  
Cross Section

68-Er-170  
-90.46 To -5.442%

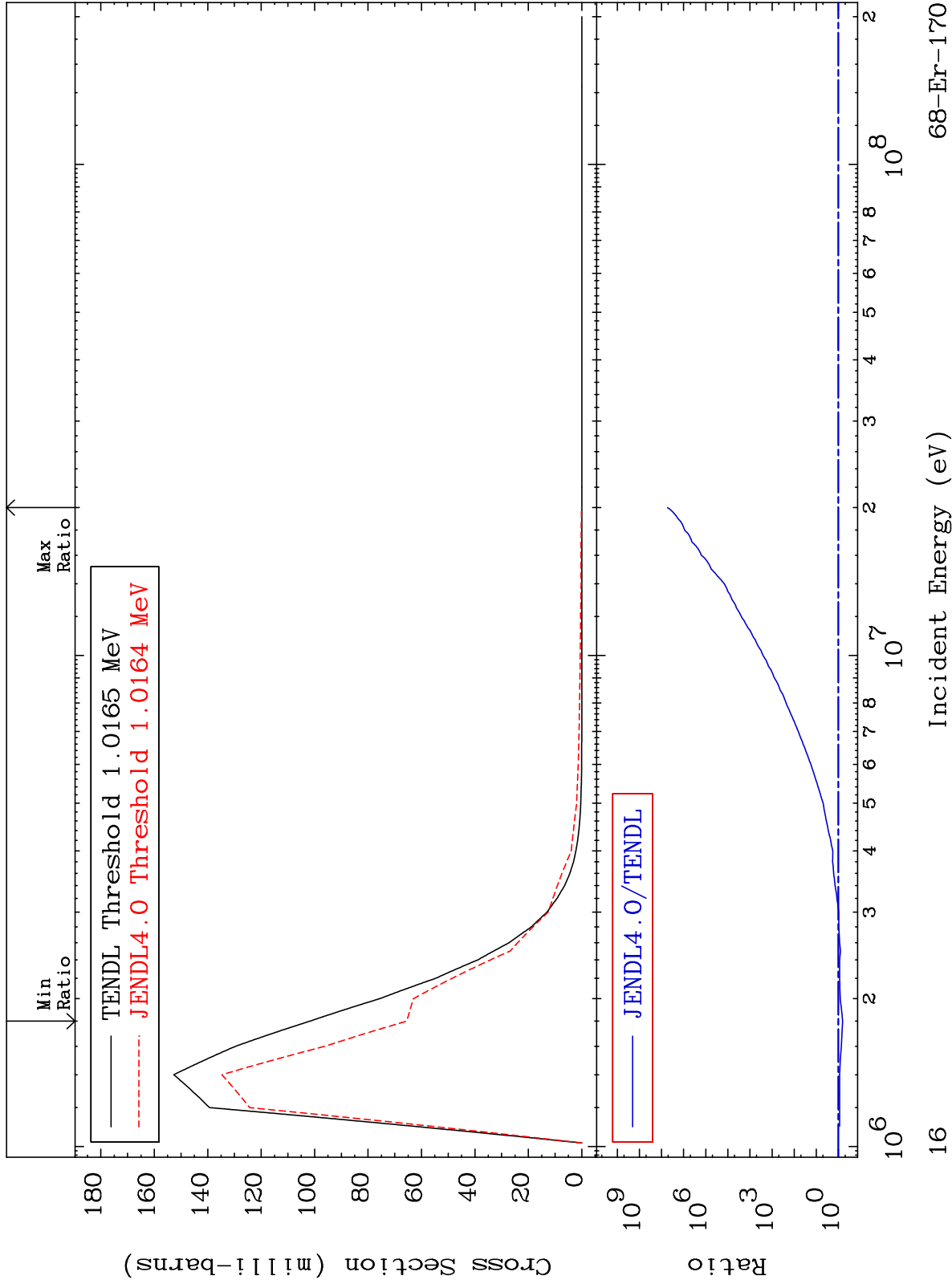


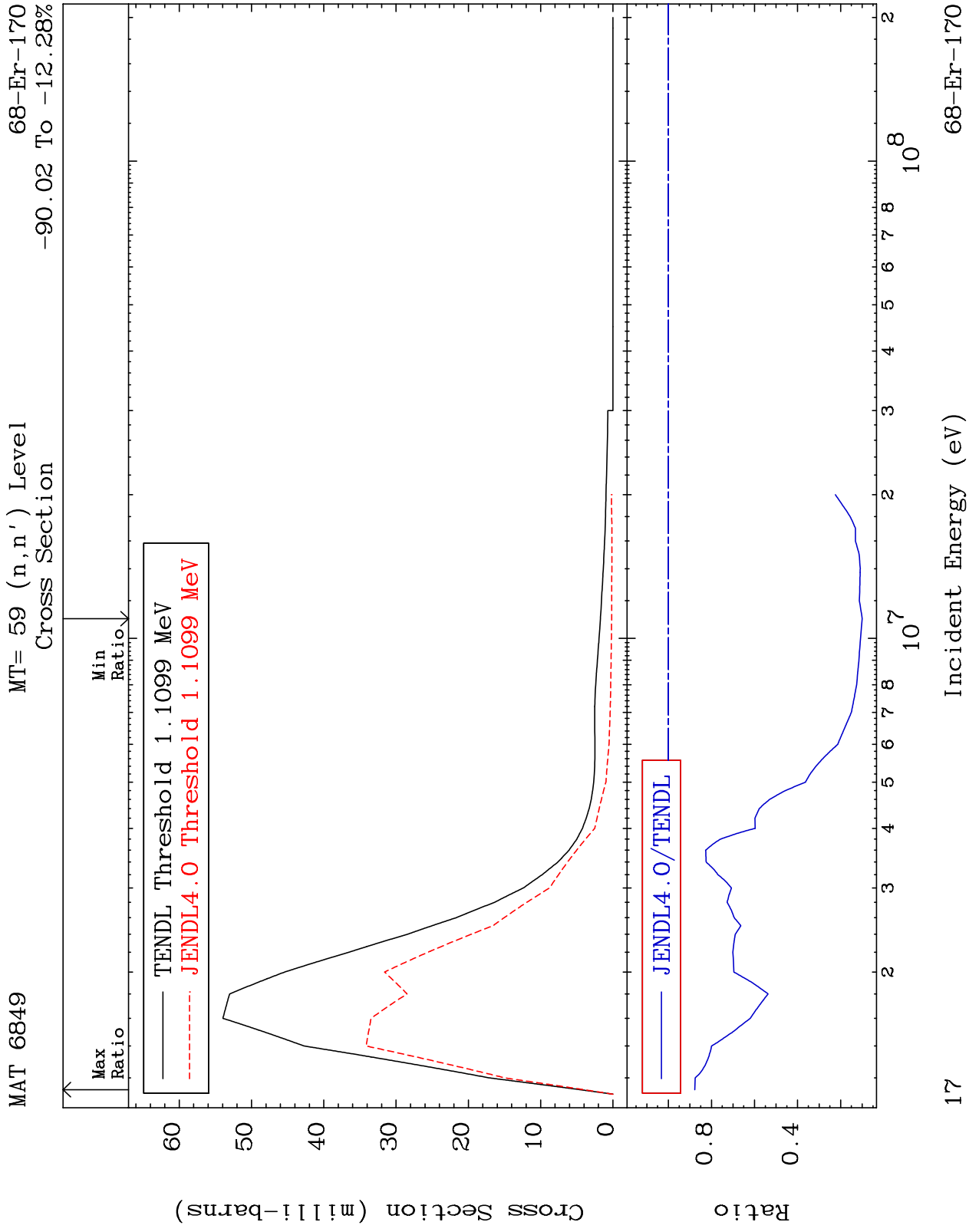


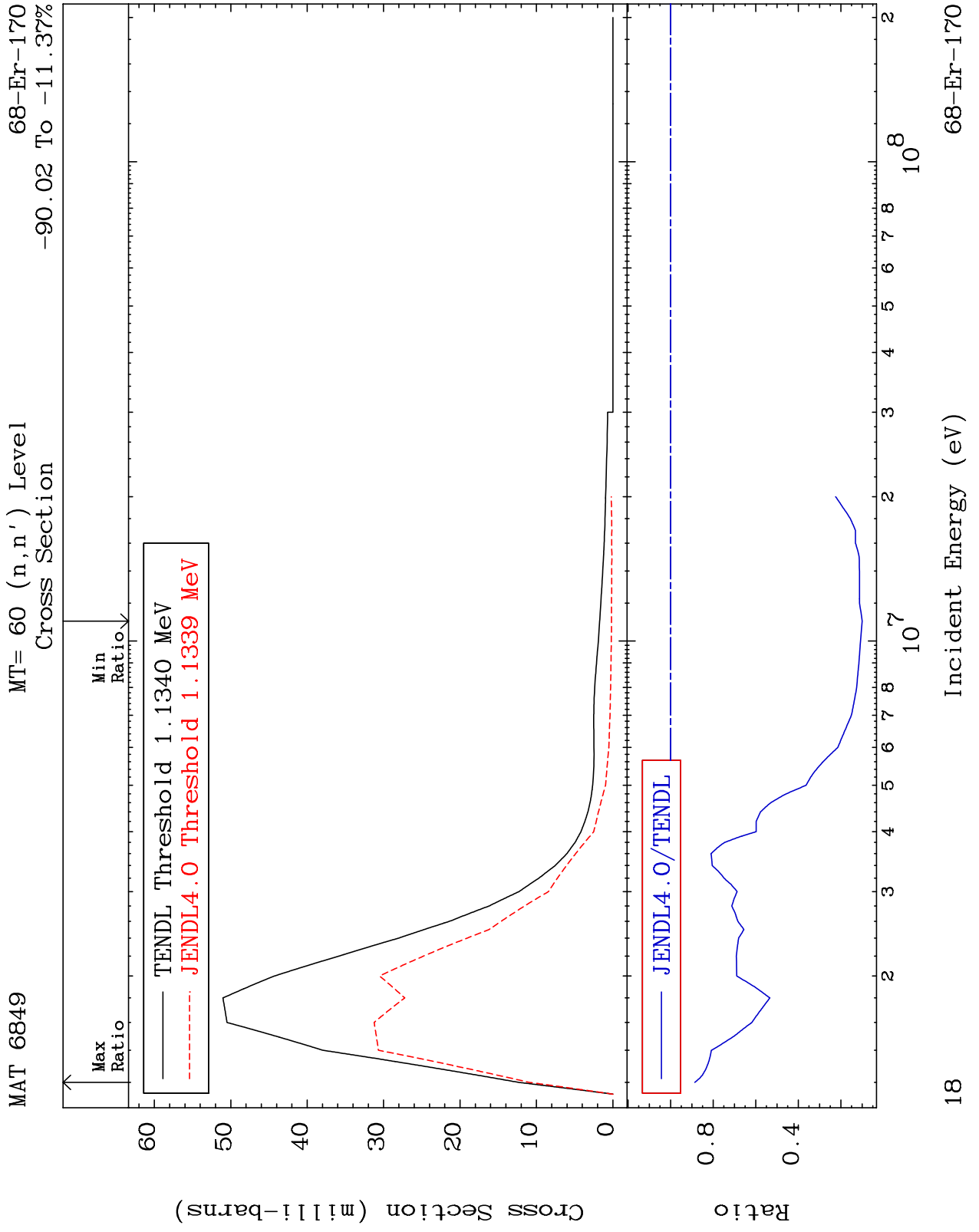
MAT 6849

MT= 58 (n, n') Level  
Cross Section

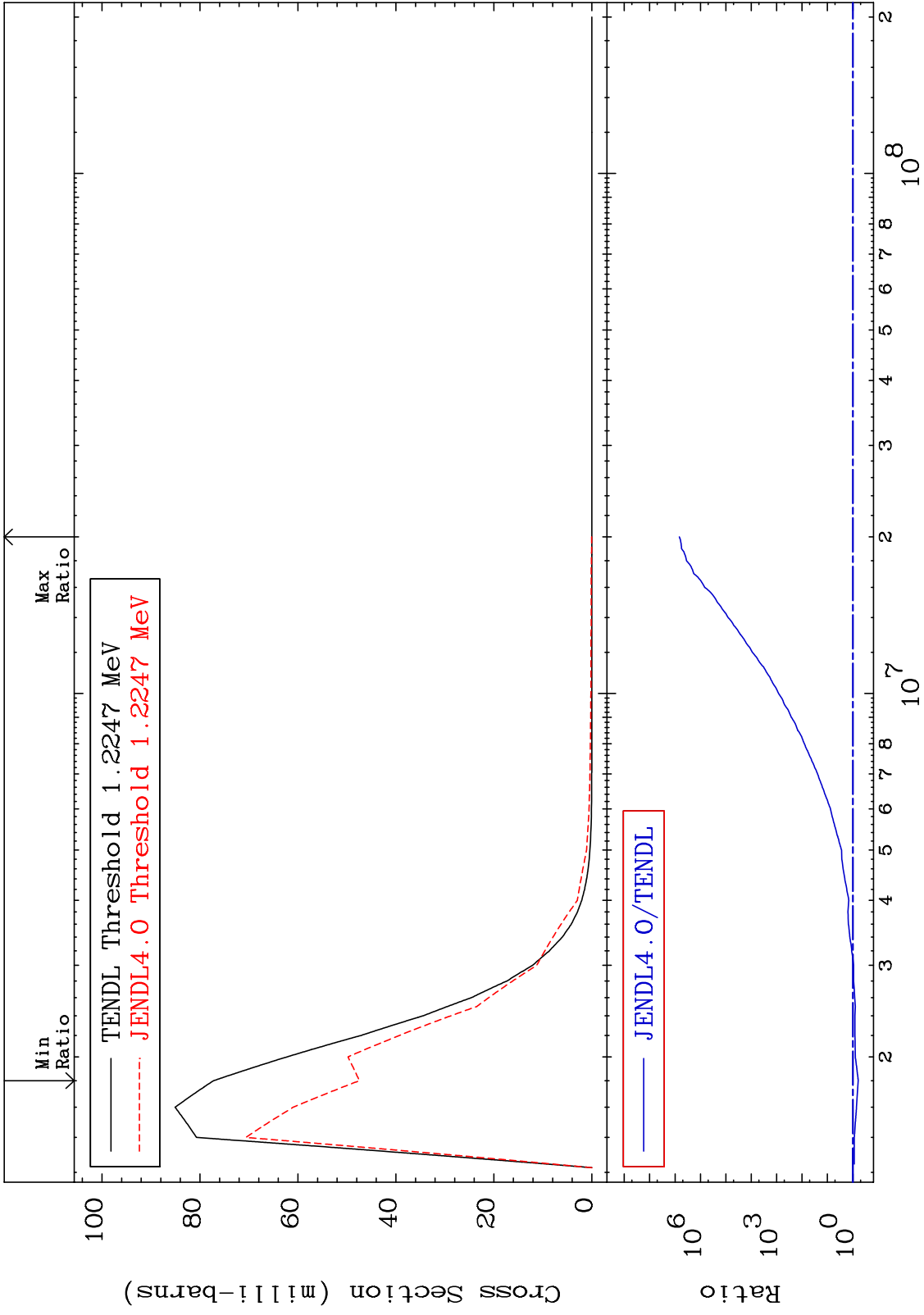
68-Er-170  
-35.62 To 9999. %







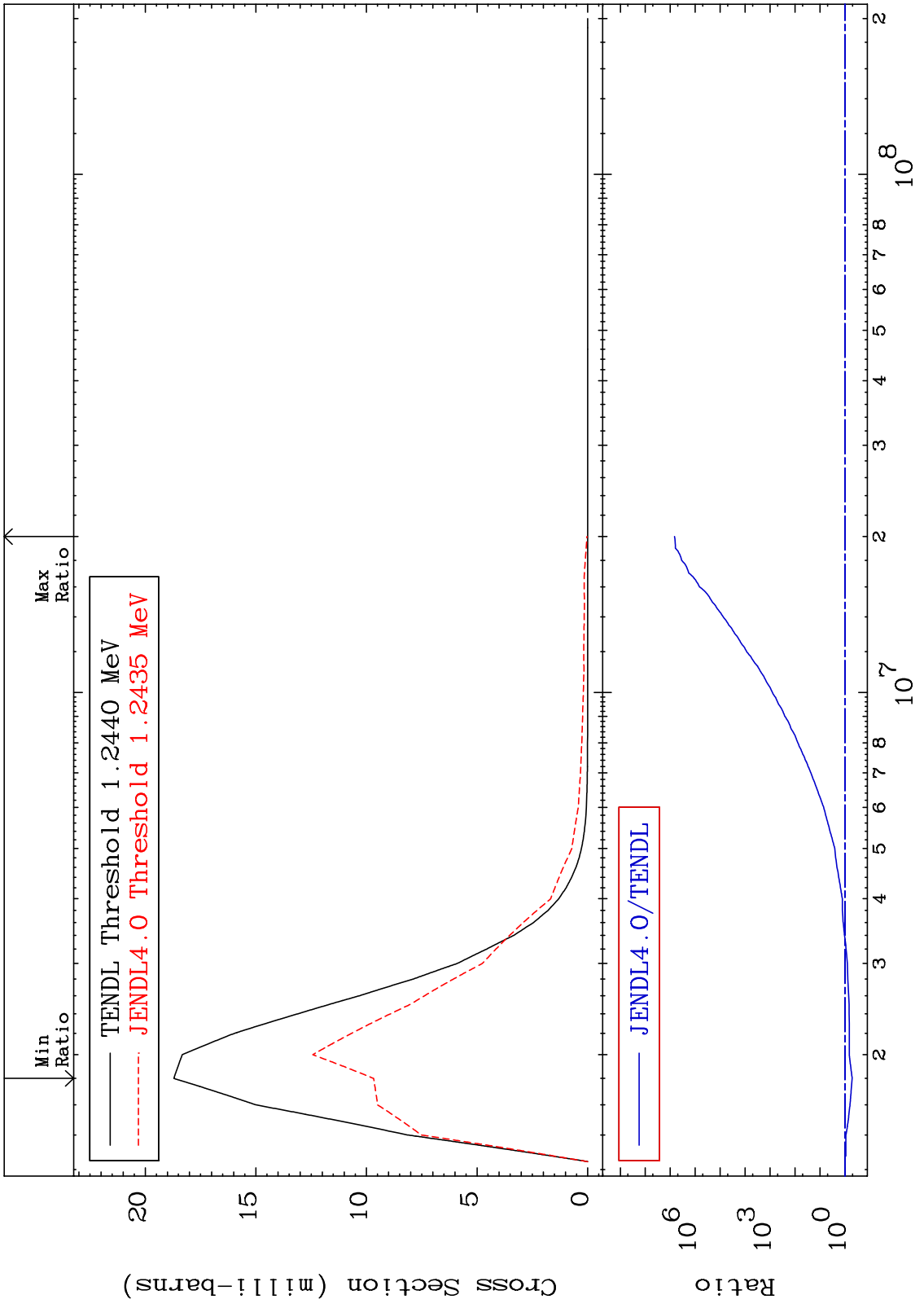
MAT 6849      MT= 61 (n,n') Level Cross Section      68-Er-170  
 -38.55 To 9999. %



MAT 6849

MT= 62 (n,n') Level  
Cross Section

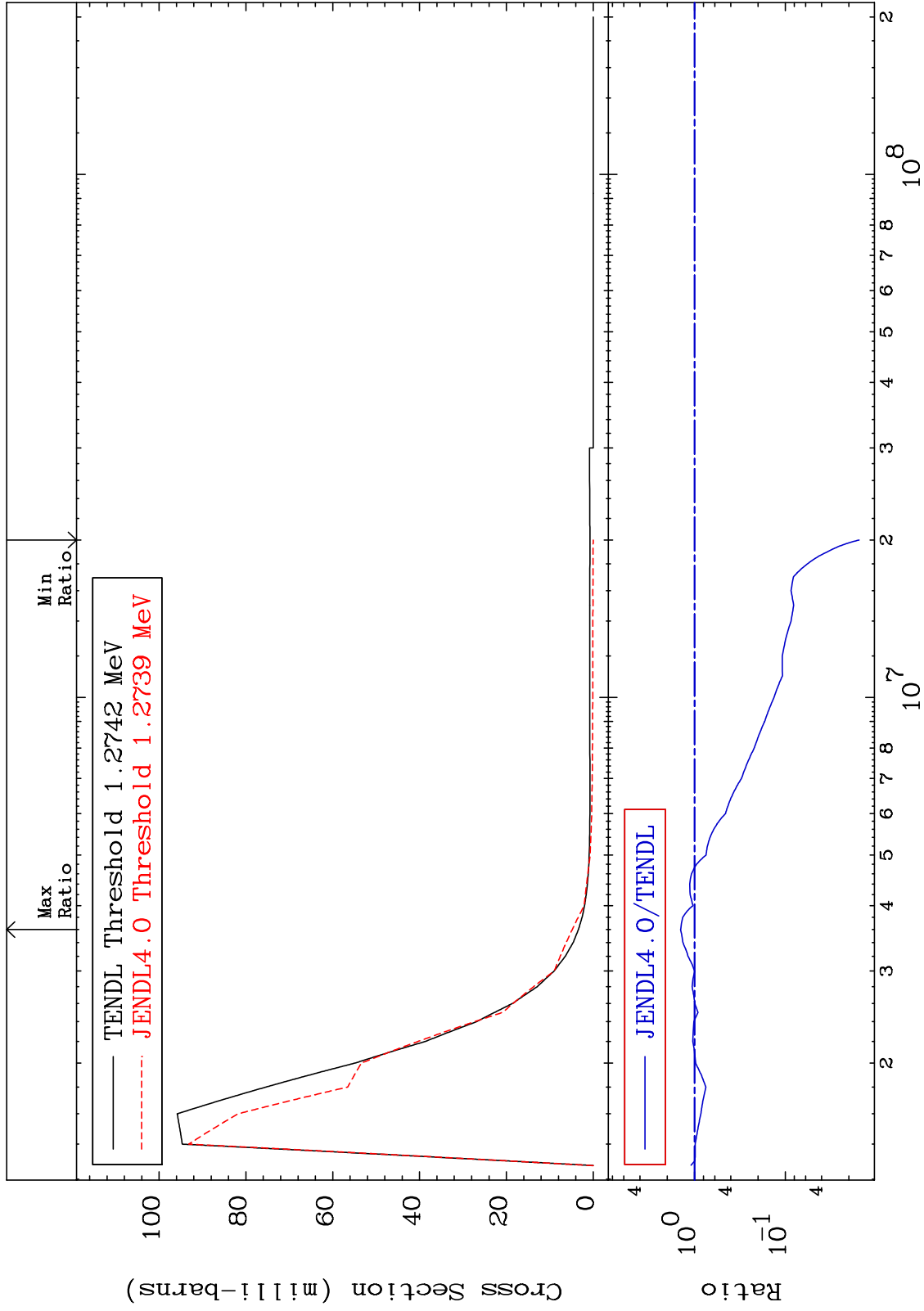
68-Er-170  
-48.29 To 9999. %

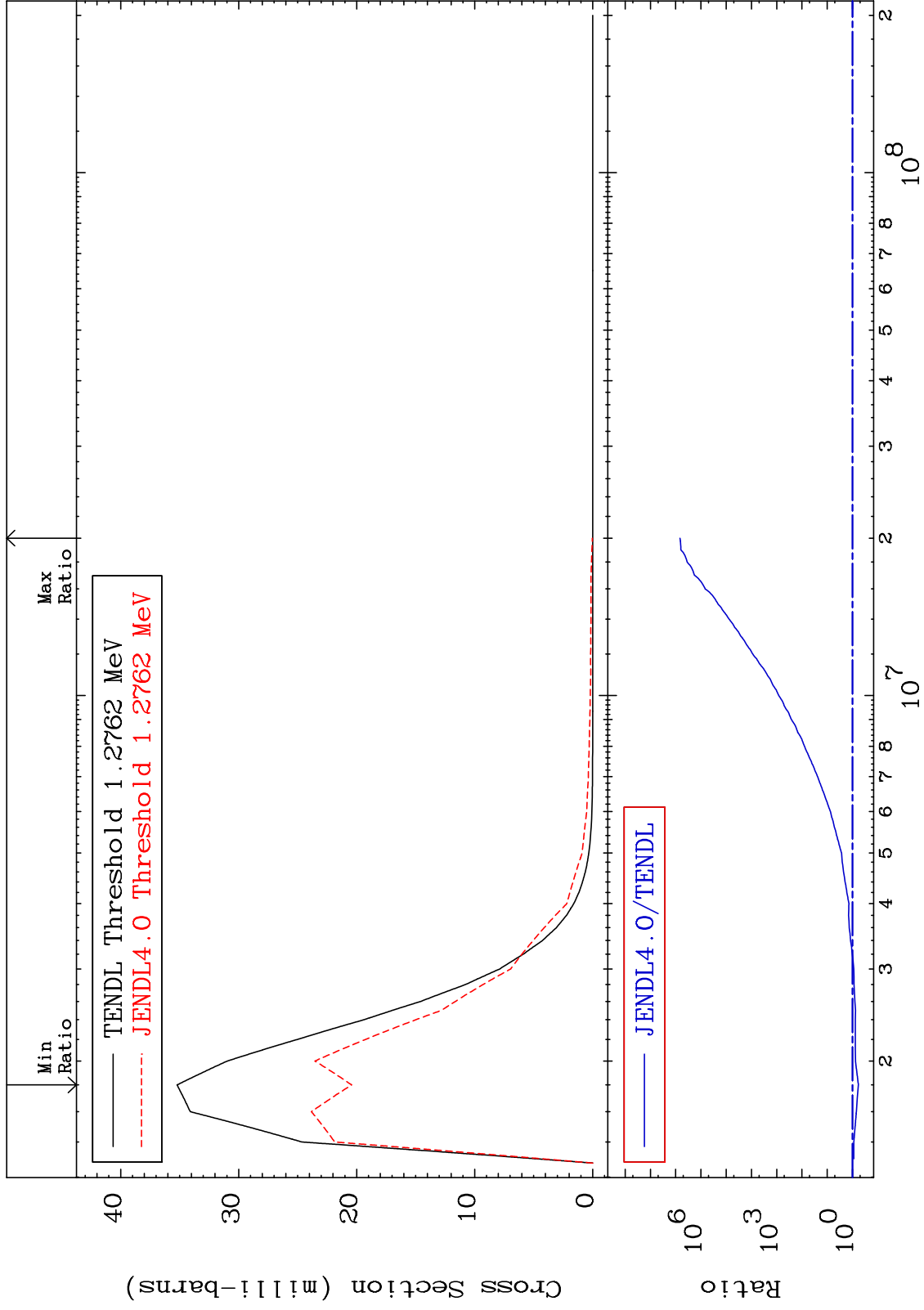


MAT 6849

MT= 63 (n, n') Level  
Cross Section

68-Er-170  
-98.46 To 42.41 %

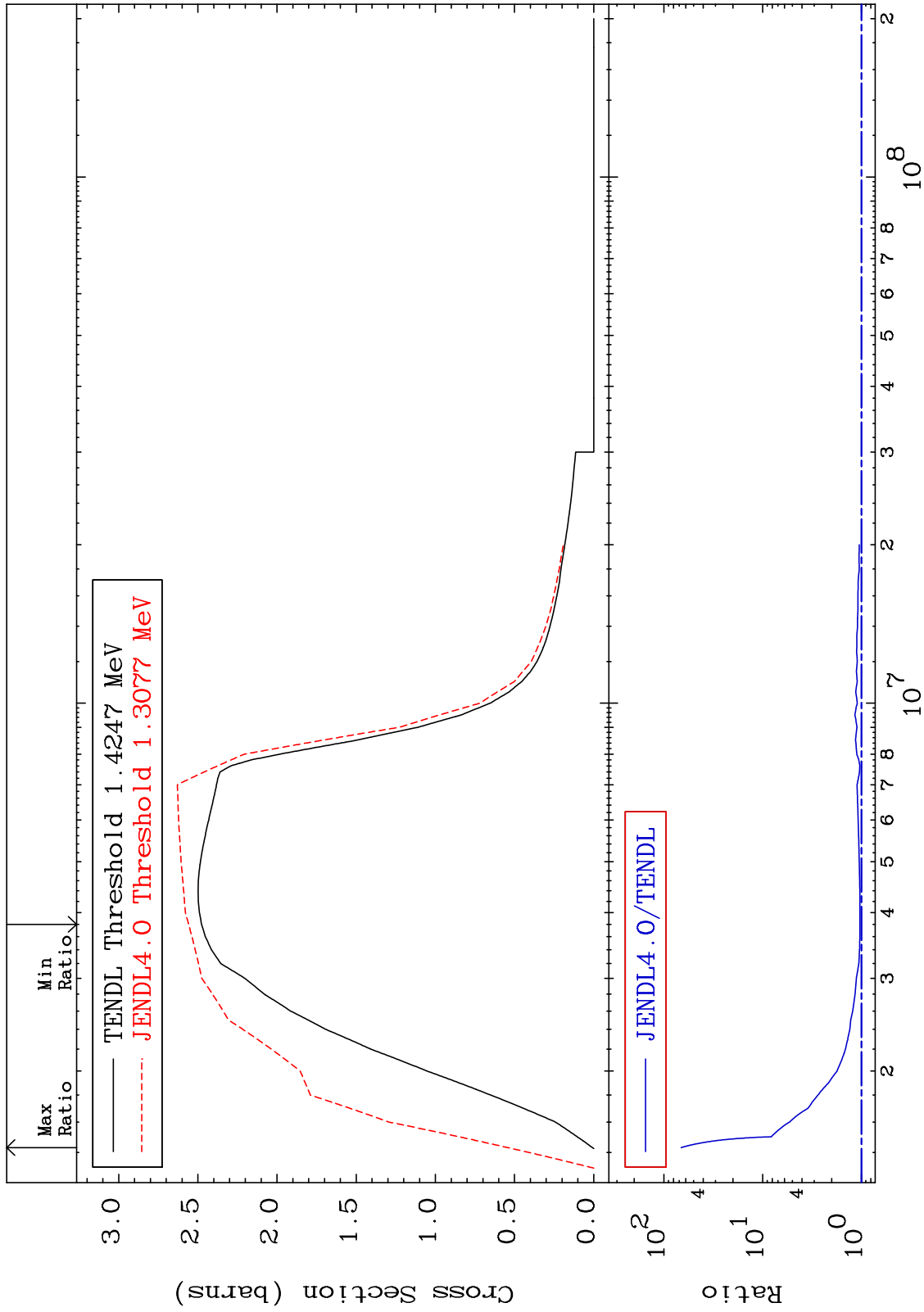




MAT 6849

(n, n') Continuum  
Cross Section

68-Er-170  
3.296 To 6583. %





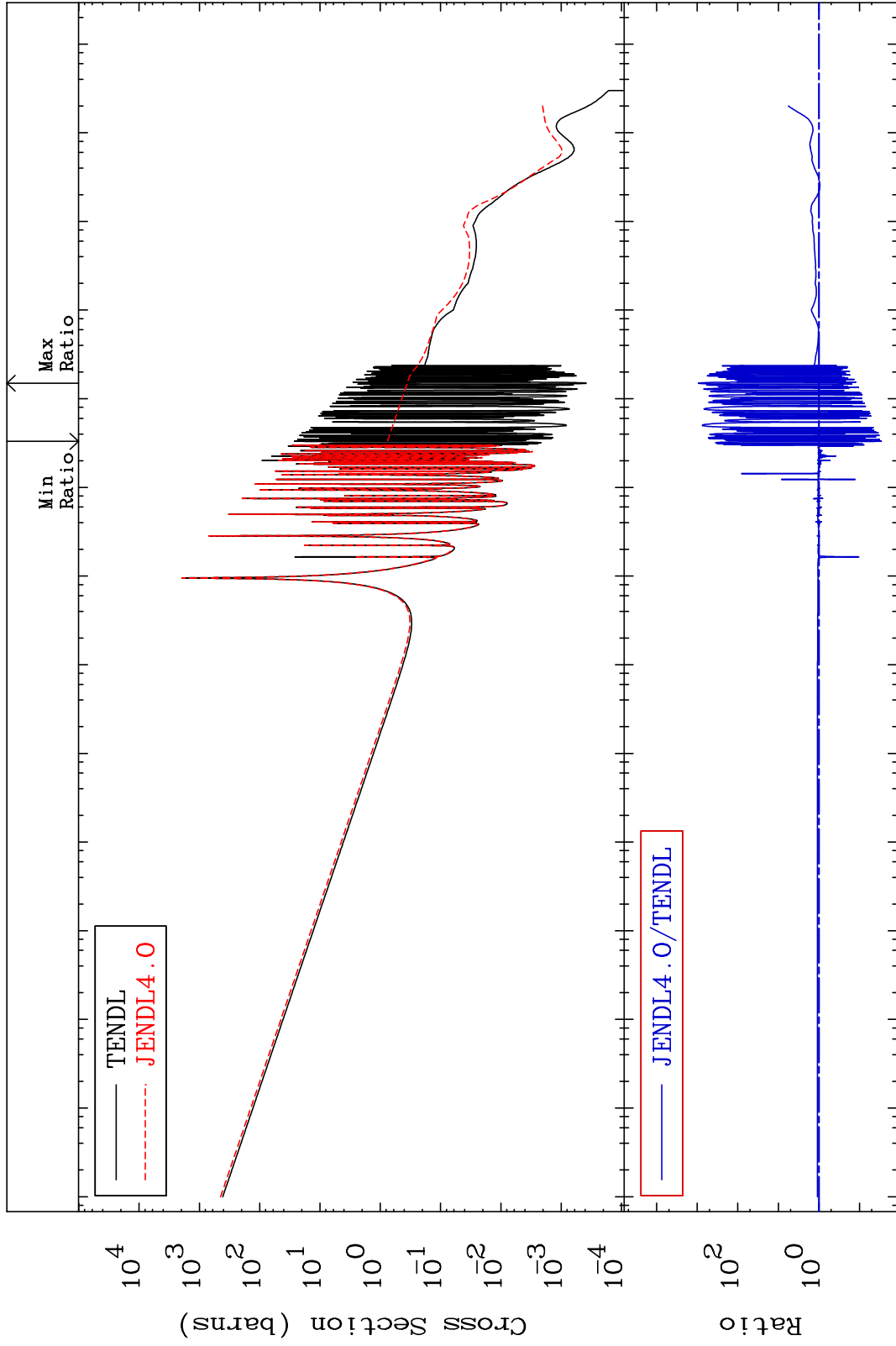
MAT 6849

(n,  $\gamma$ )

68-Er-170

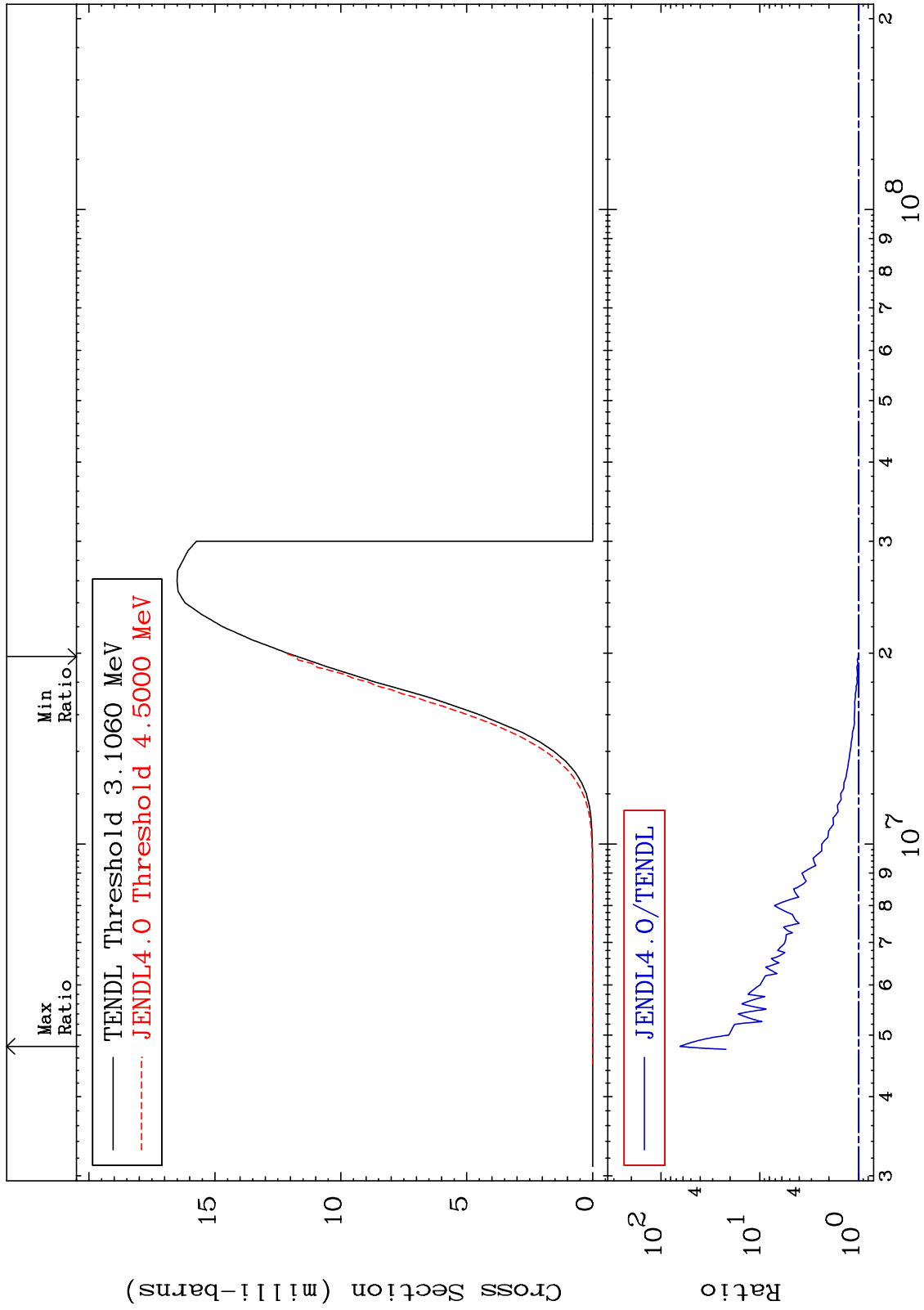
Cross Section

-97.14 To 9999. %



Incident Energy (eV)

MAT 6849 (n,p) Cross Section 68-Er-170 0.664 To 6322. %



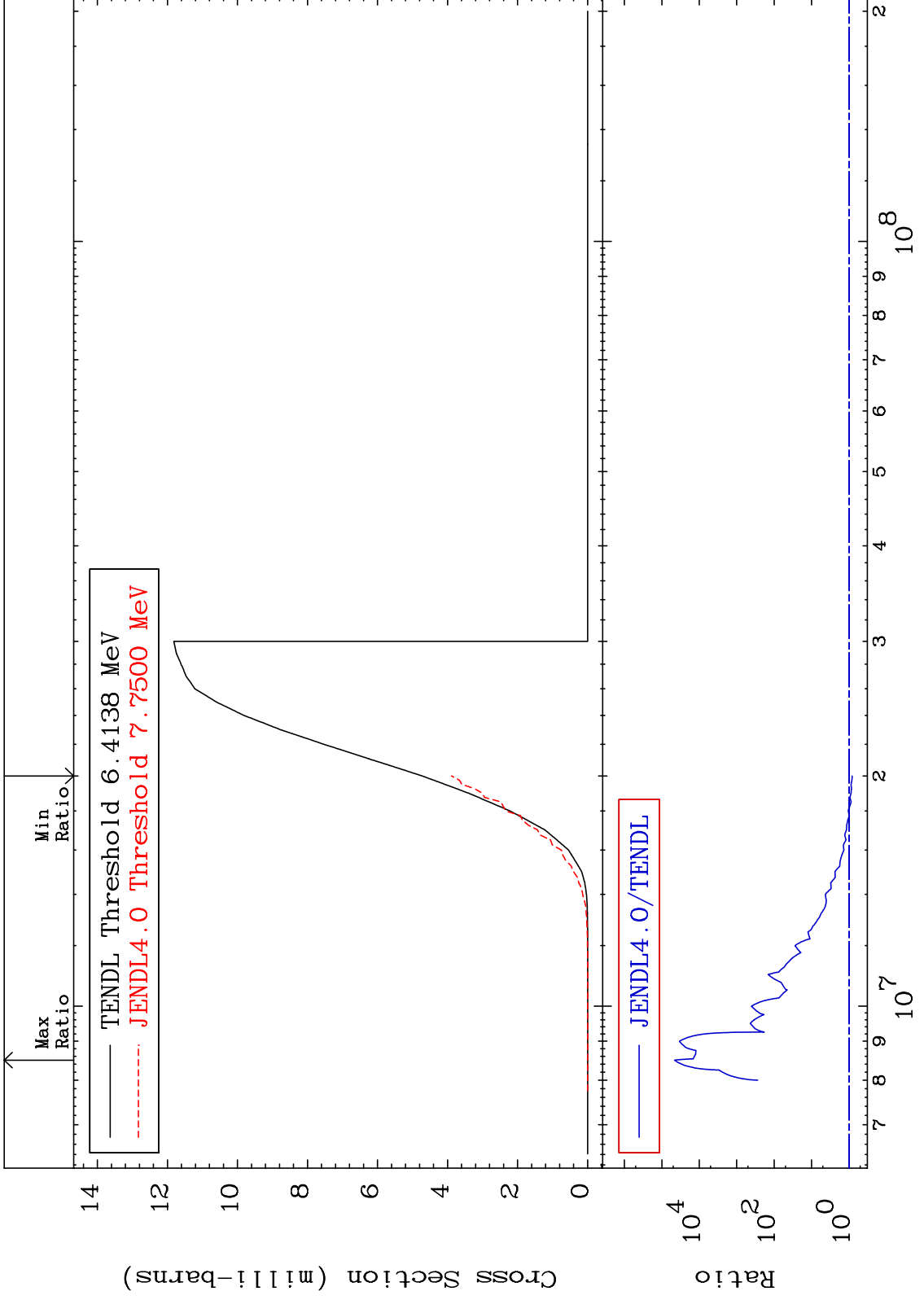
MAT 6849

(n, d)

68-Er-170

-17.78 To 9999. %

Cross Section



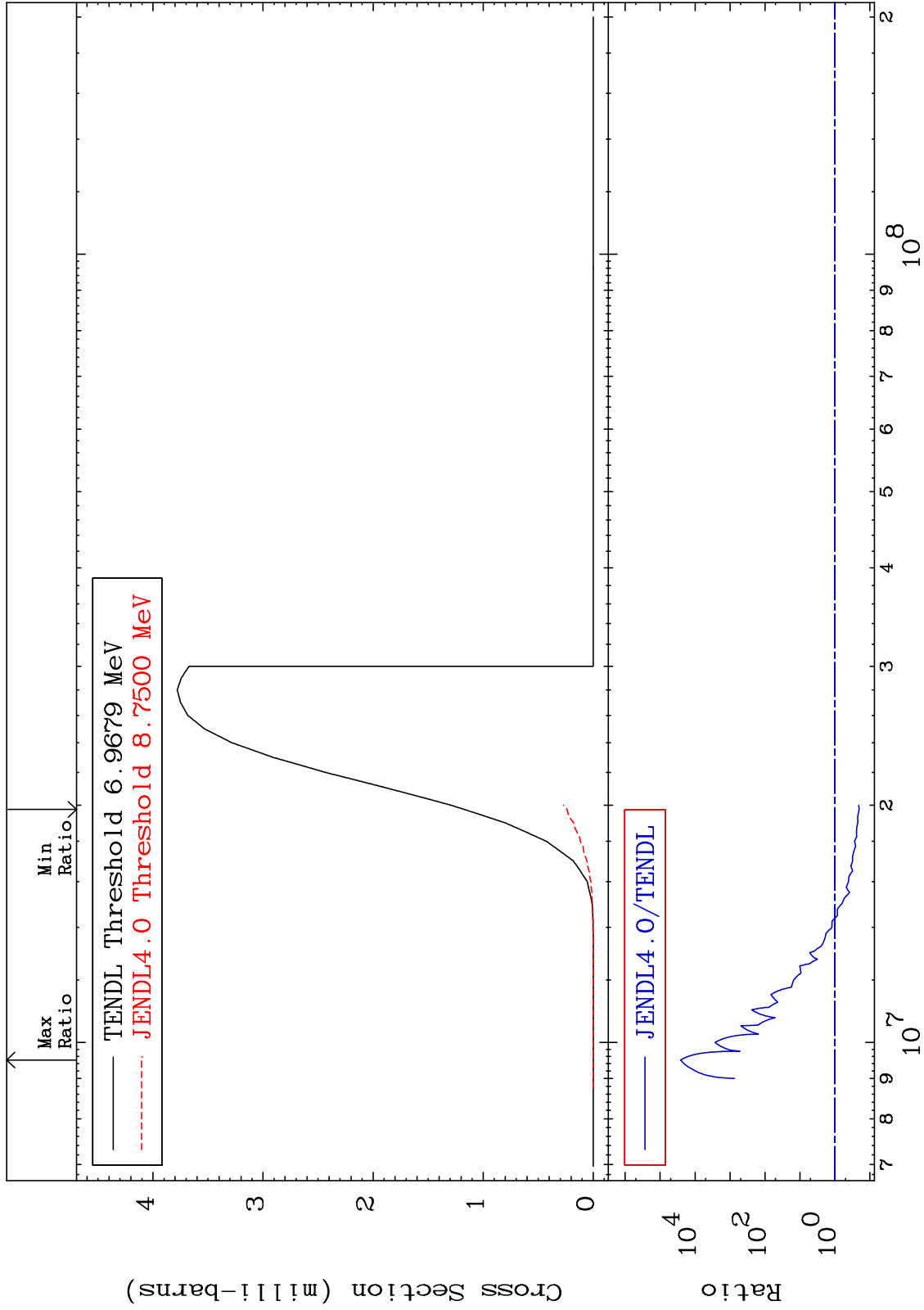
MAT 6849

(n, t)

68-Er-170

Cross Section

-79.69 To 9999. %



27

68-Er-170

68-Er-170

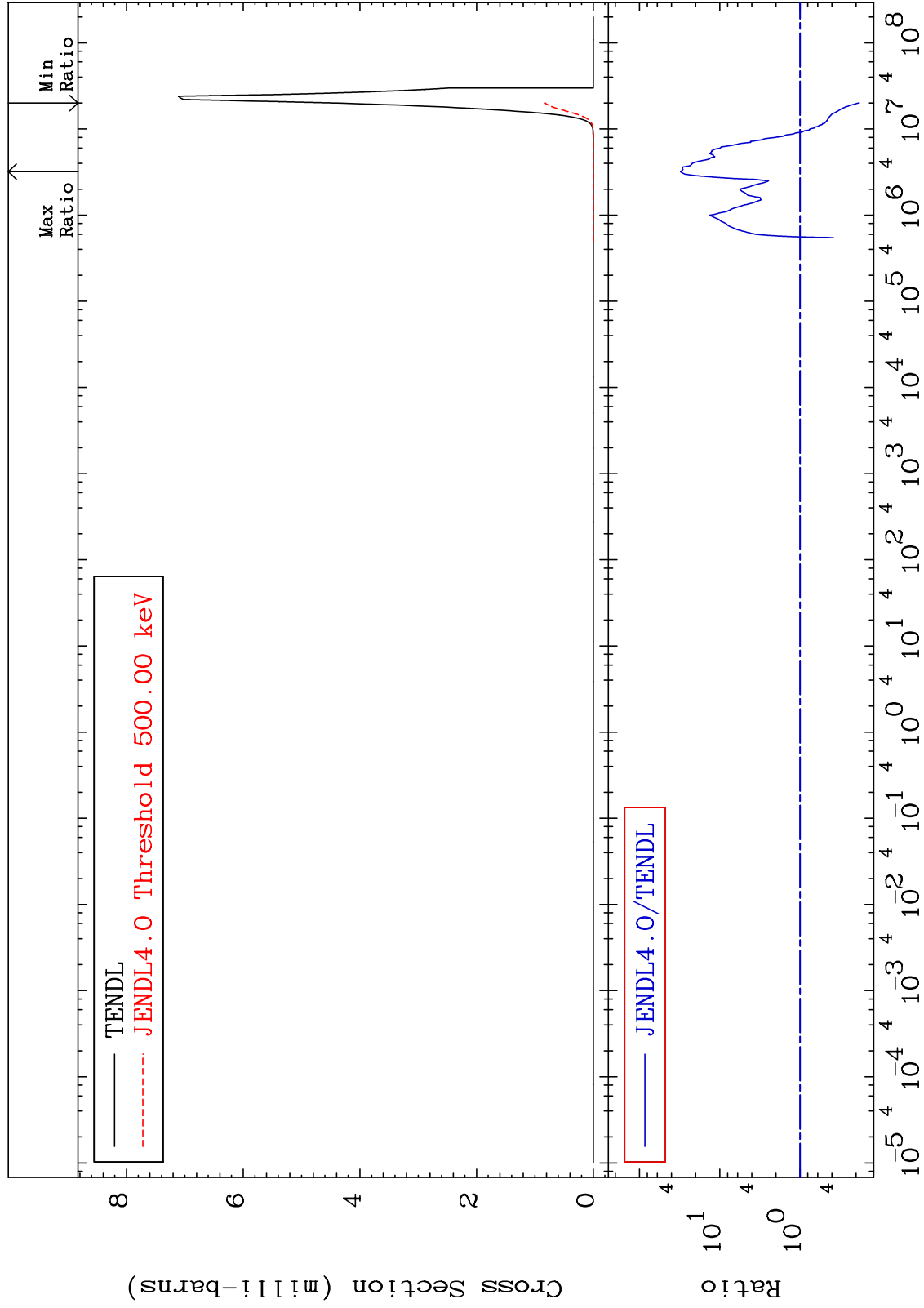
MAT 6849

(n,  $\alpha$ )

68-Er-170

Cross Section

-81.30 To 2985. %



28

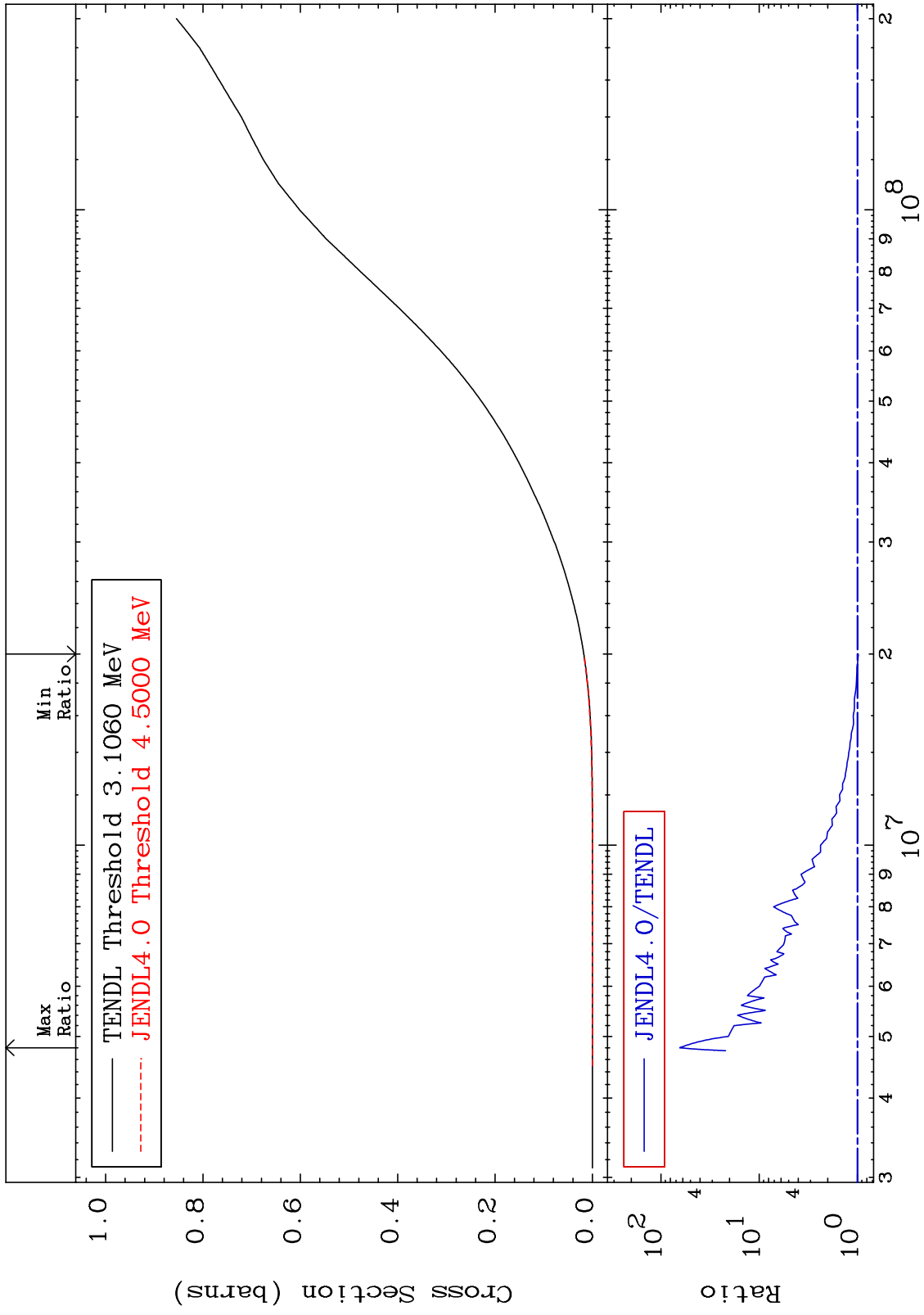
Incident Energy (eV)

68-Er-170

MAT 6849

Hydrogen Production  
Cross Section

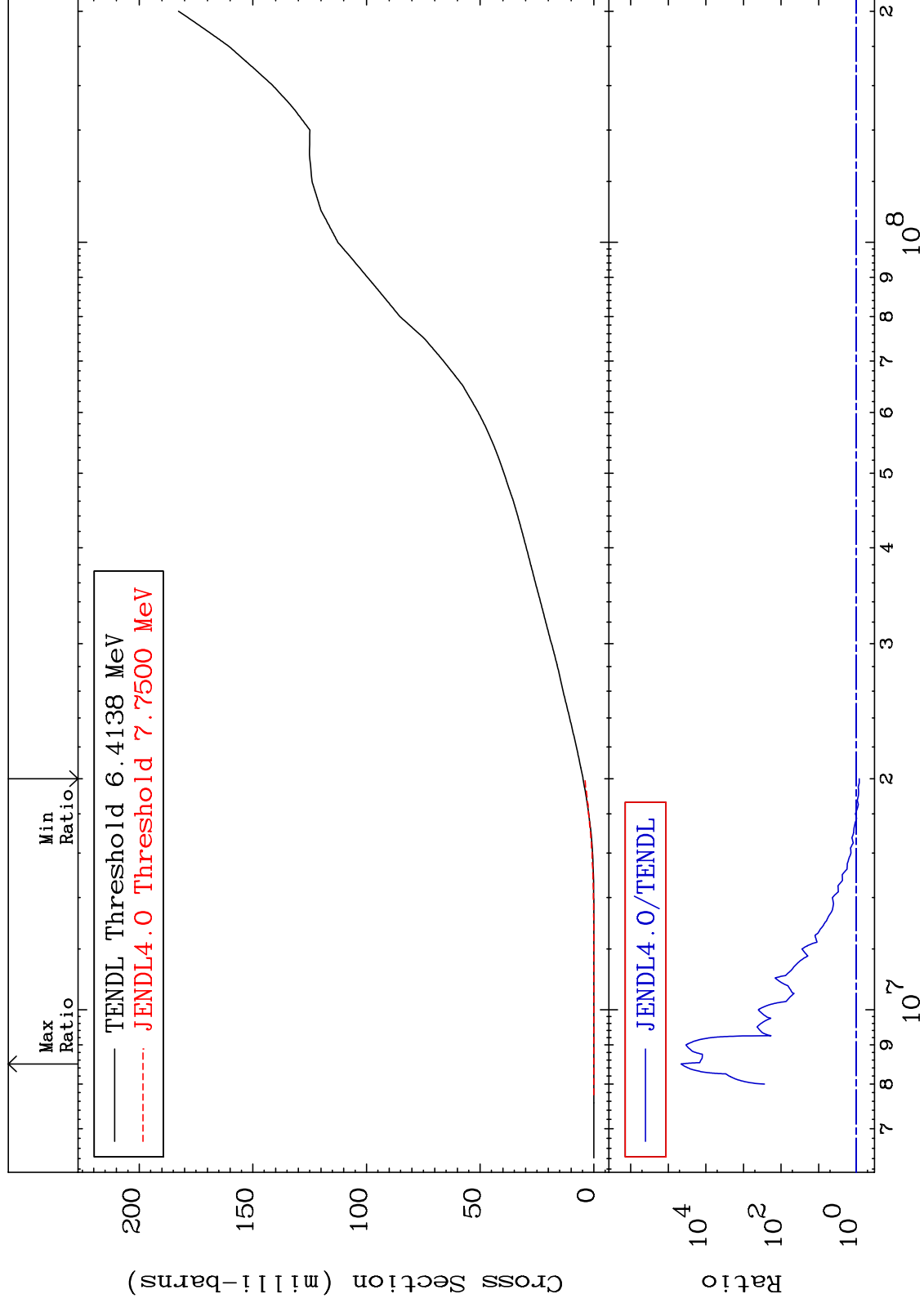
68-Er-170  
-2.314 To 6322. %



MAT 6849

Deuterium Production  
Cross Section

68-Er-170  
-16.87 To 9999. %



30

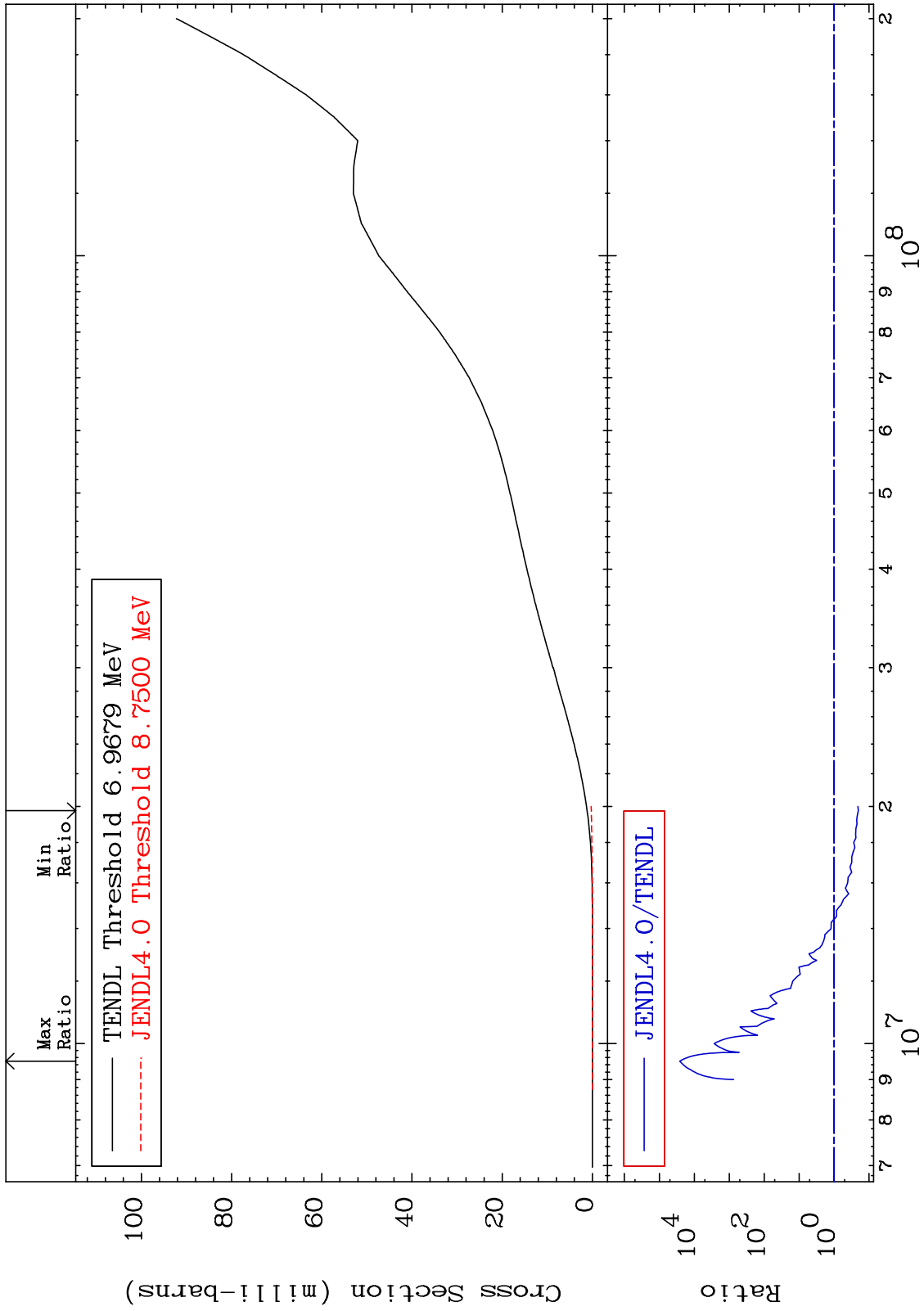
Incident Energy (eV)

68-Er-170

MAT 6849

Tritium Production  
Cross Section

68-Er-170  
-79.75 To 9999. %

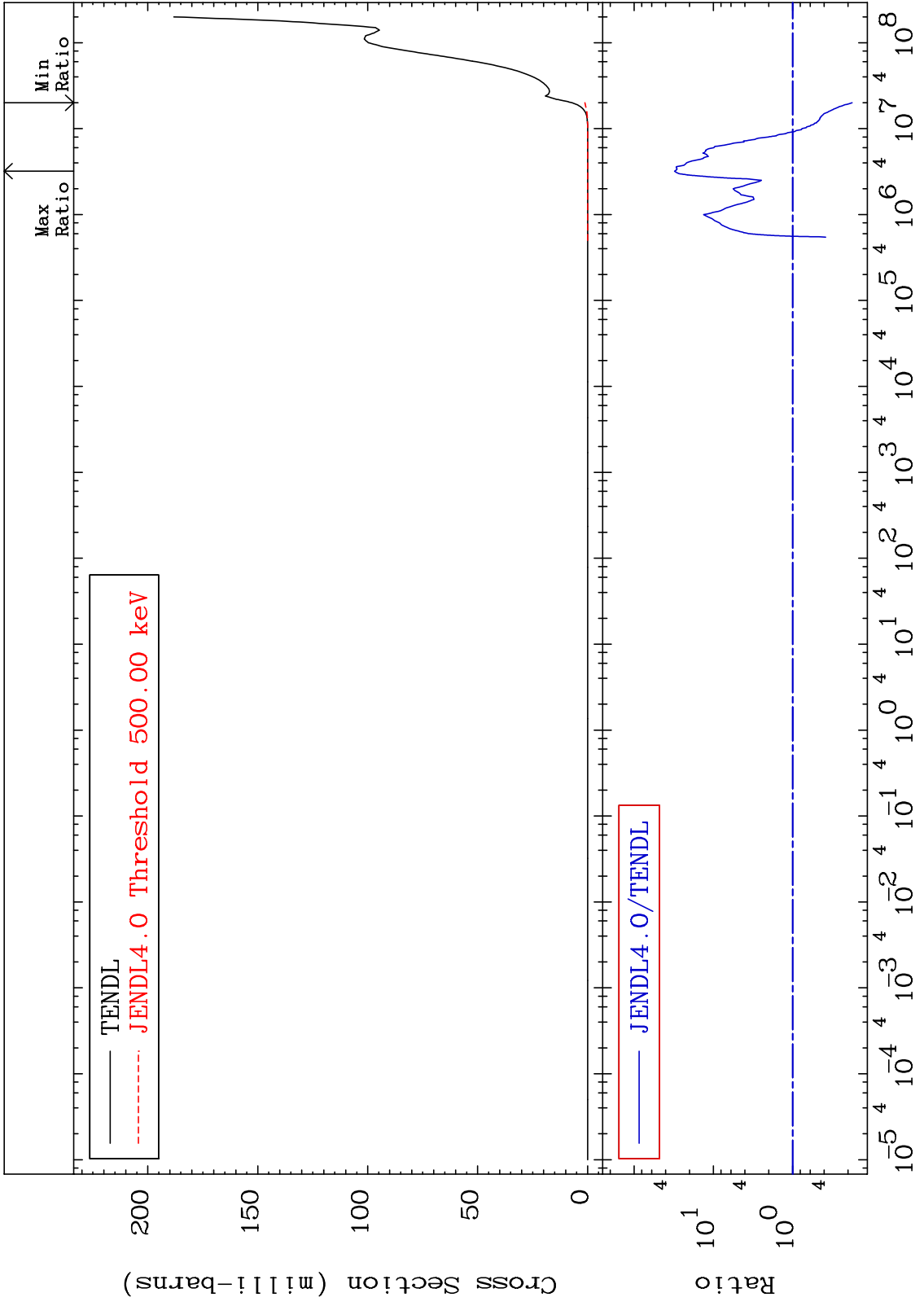




MAT 6849

He-4 Production  
Cross Section

68-Er-170  
-82.33 To 2985. %



Incident Energy (eV)

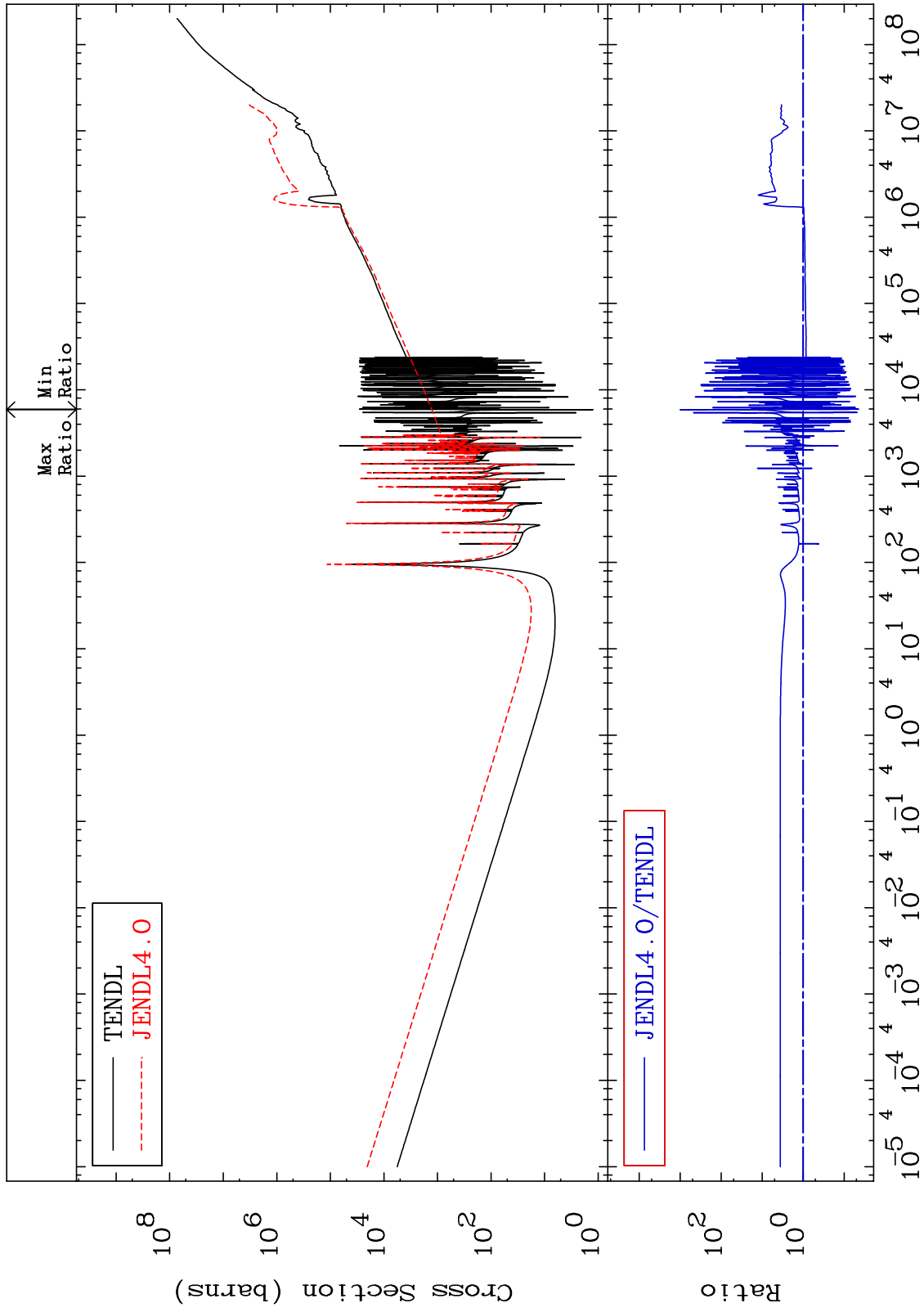
68-Er-170

32

MAT 6849

Kerma total (eV-barns)  
Cross Section

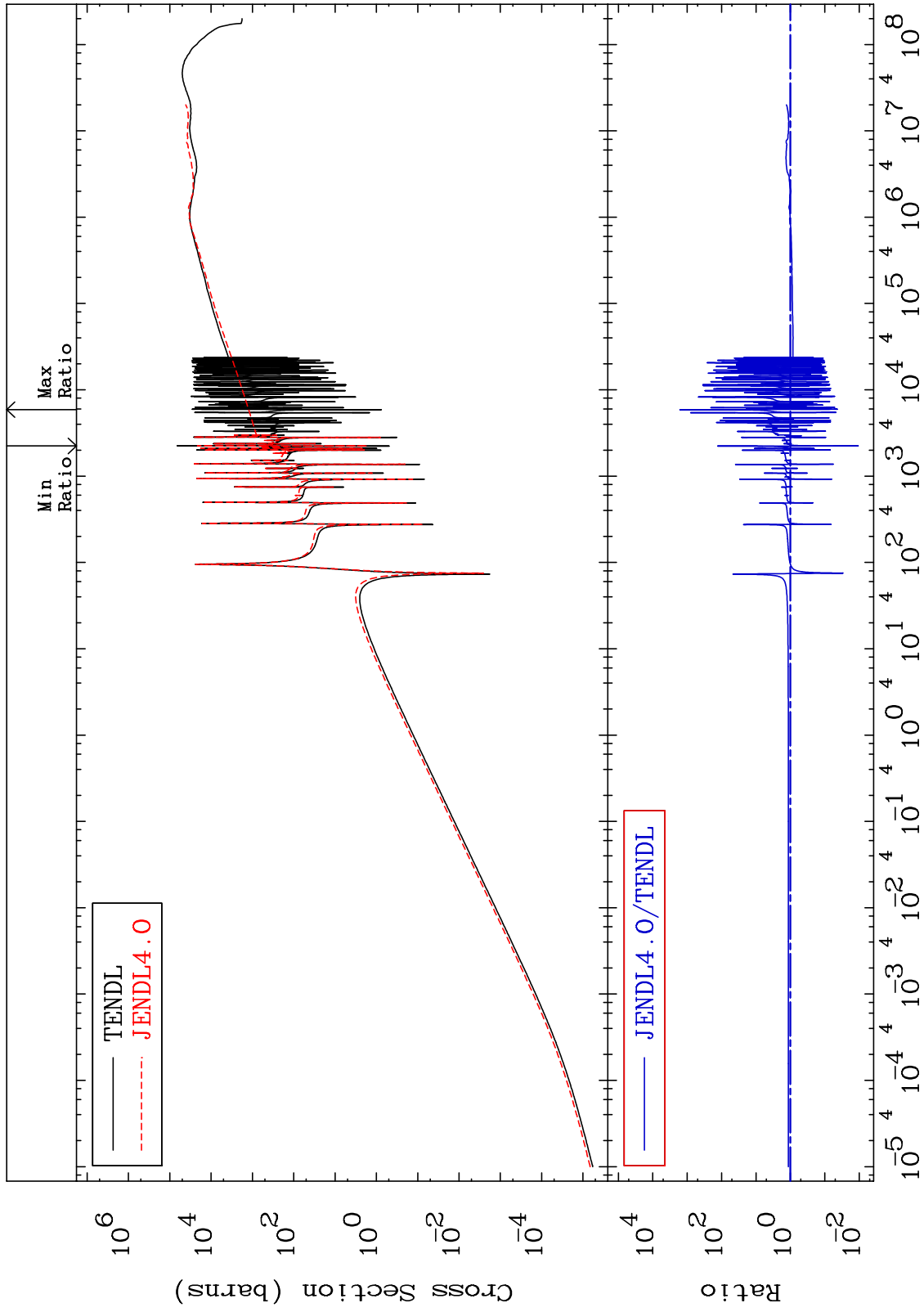
68-Er-170  
-95.52 To 9999. %



MAT 6849

Kerma elastic  
Cross Section

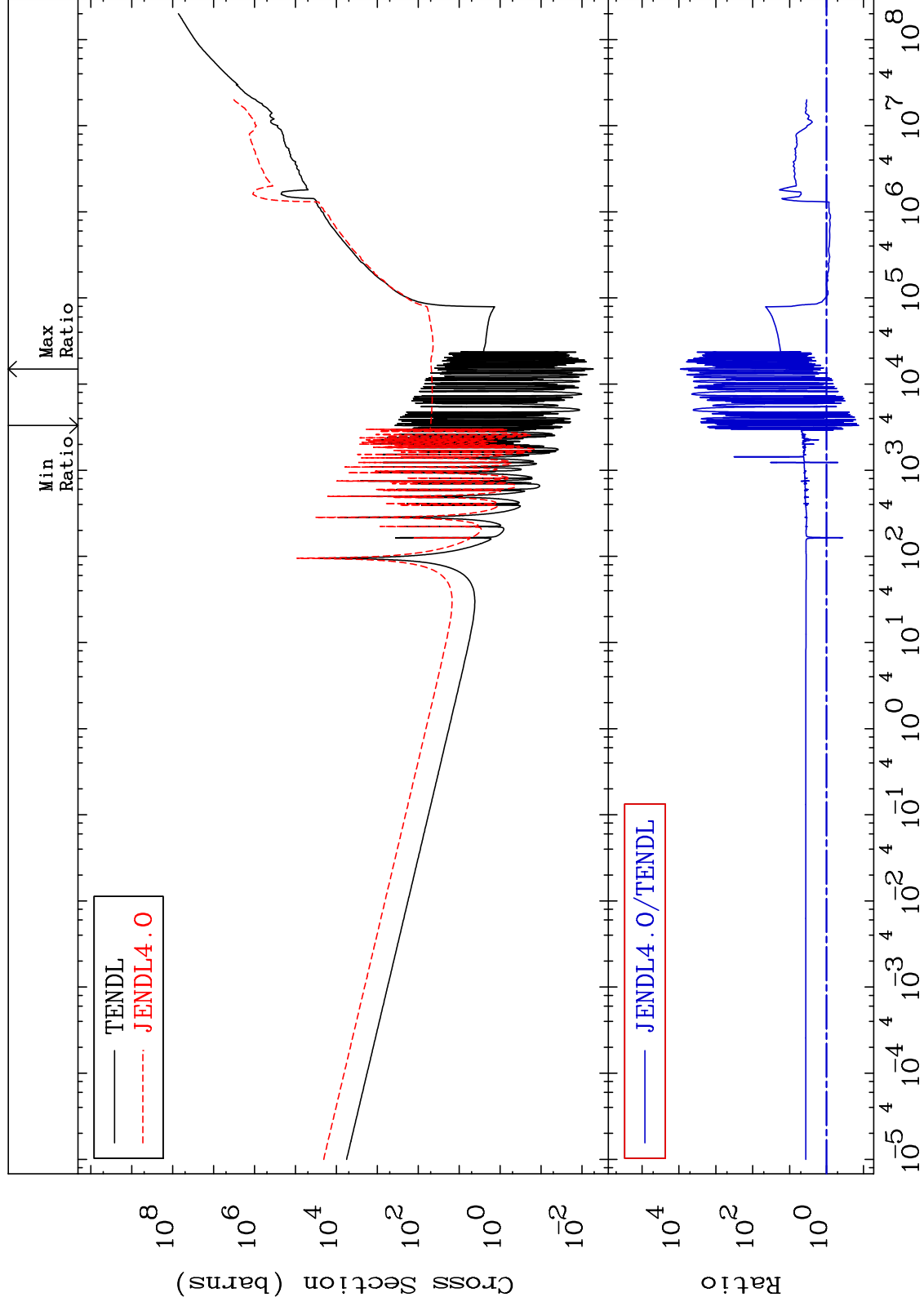
68-Er-170  
-98.94 To 9999. %



MAT 6849

Kerma non-elastic (all but mt2)  
Cross Section

68-Er-170  
-86.43 To 9999. %



35

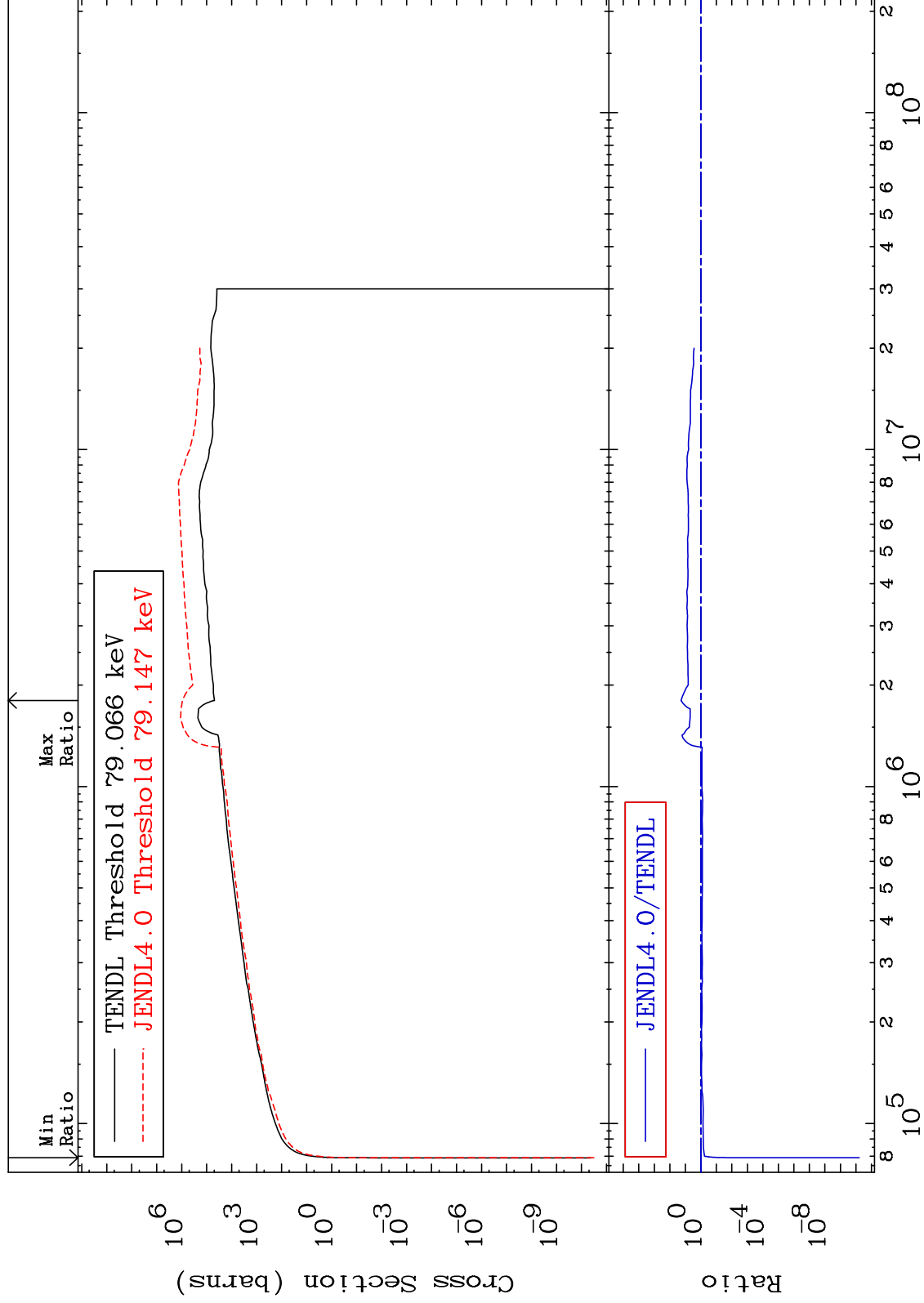
Incident Energy (eV)

68-Er-170

MAT 6849

Kerma inelastic (mt51-91)  
Cross Section

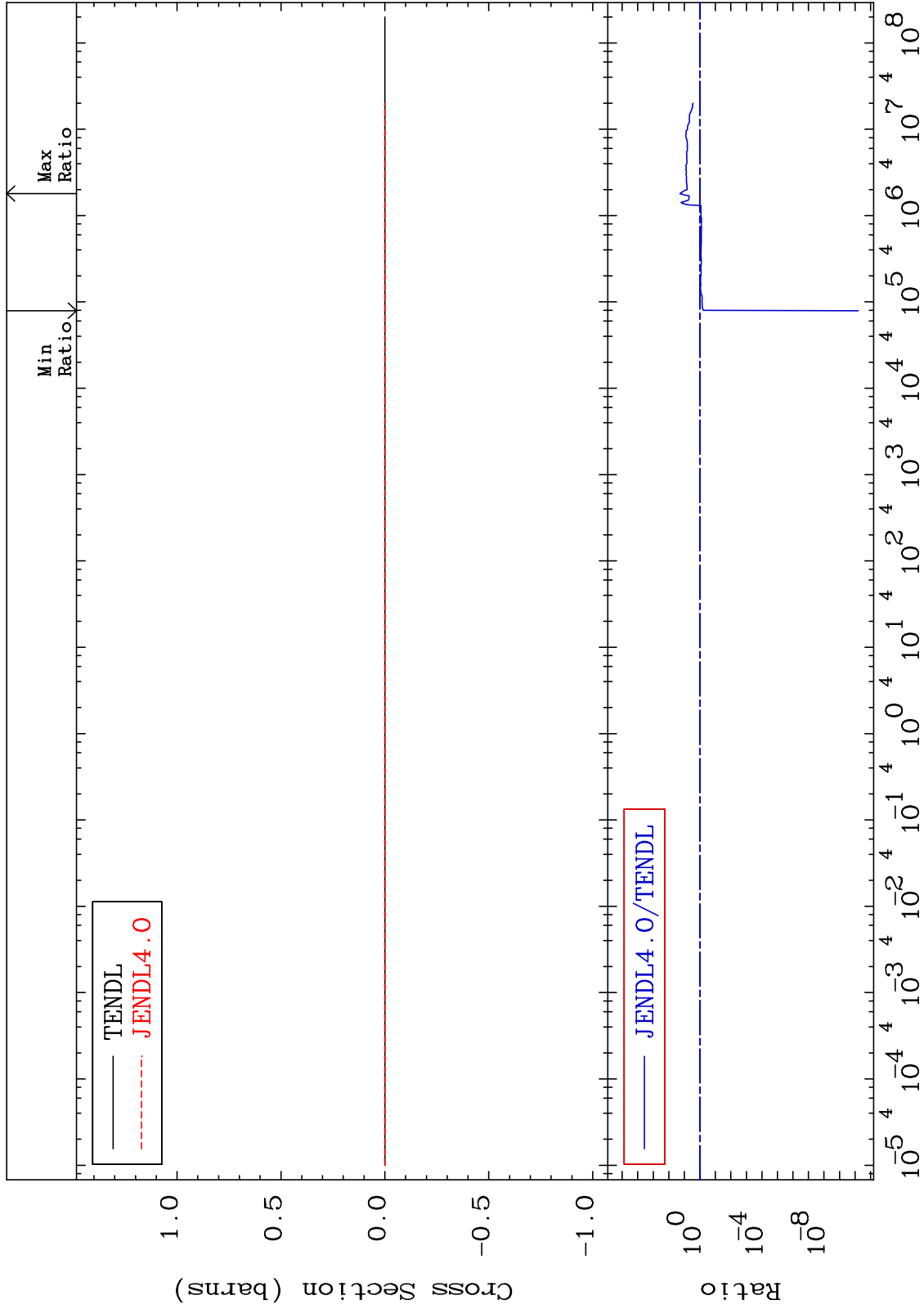
68-Er-170  
-100.0 To 1789. %



MAT 6849

Kerma fission (mt18 or mt19-20-21-38)  
Cross Section

68-Er-170  
-100.0 To 1789. %



37

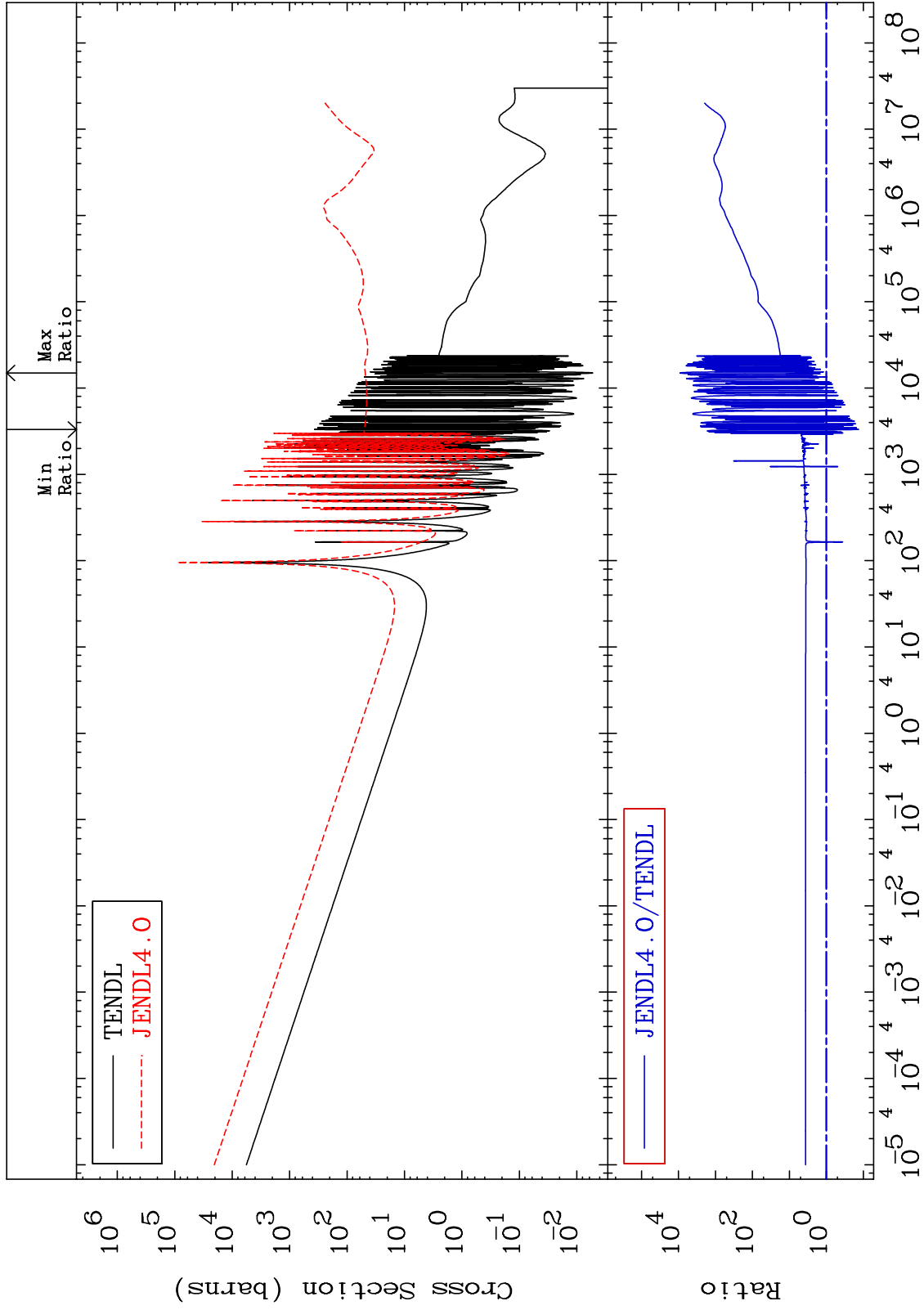
Incident Energy (eV)

68-Er-170

MAT 6849

Kerma capture (mt102)  
Cross Section

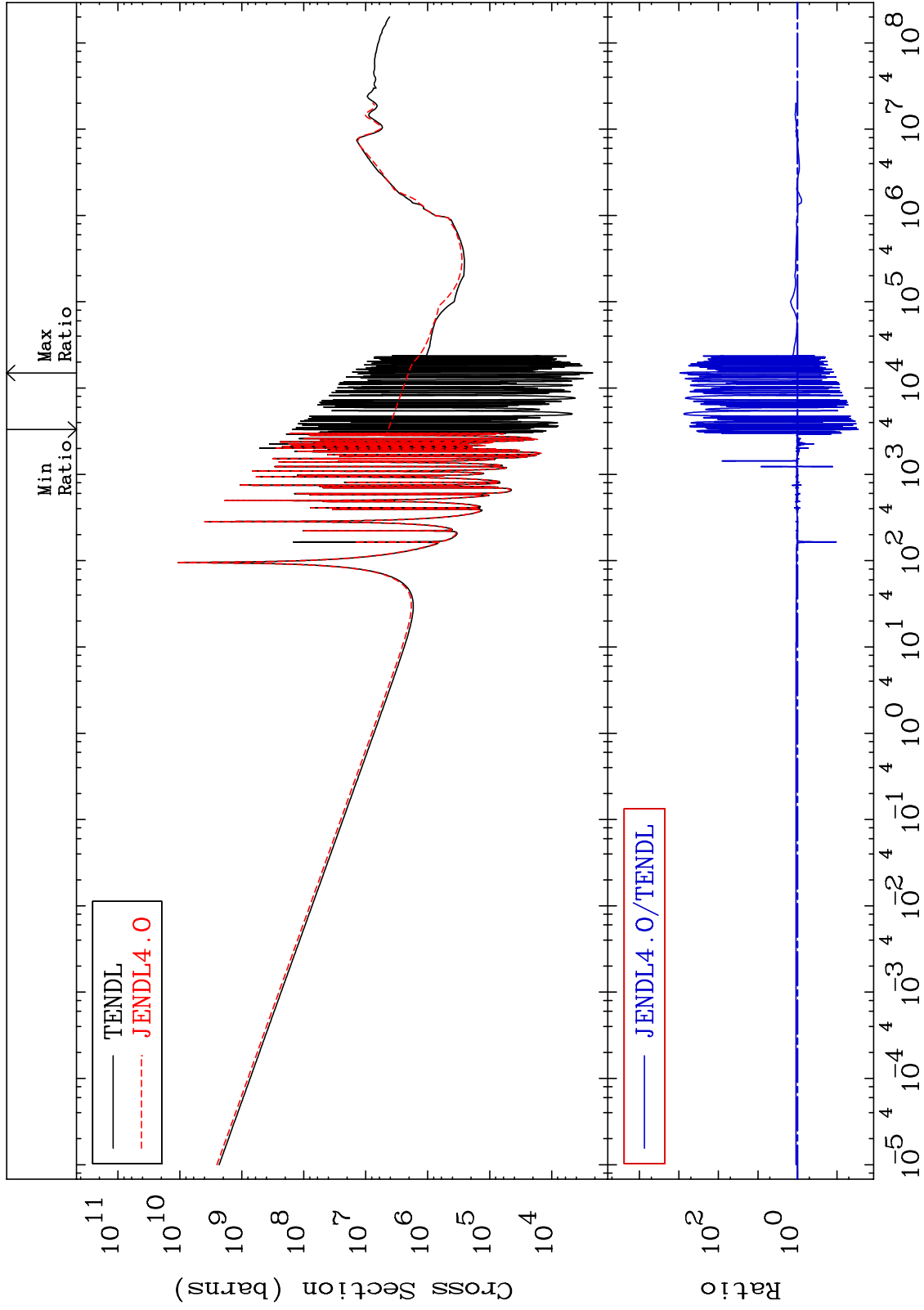
68-Er-170  
-86.43 To 9999. %



MAT 6849

Total photon (eV-barns)  
Cross Section

68-Er-170  
-97.14 To 9999. %



39

Incident Energy (eV)

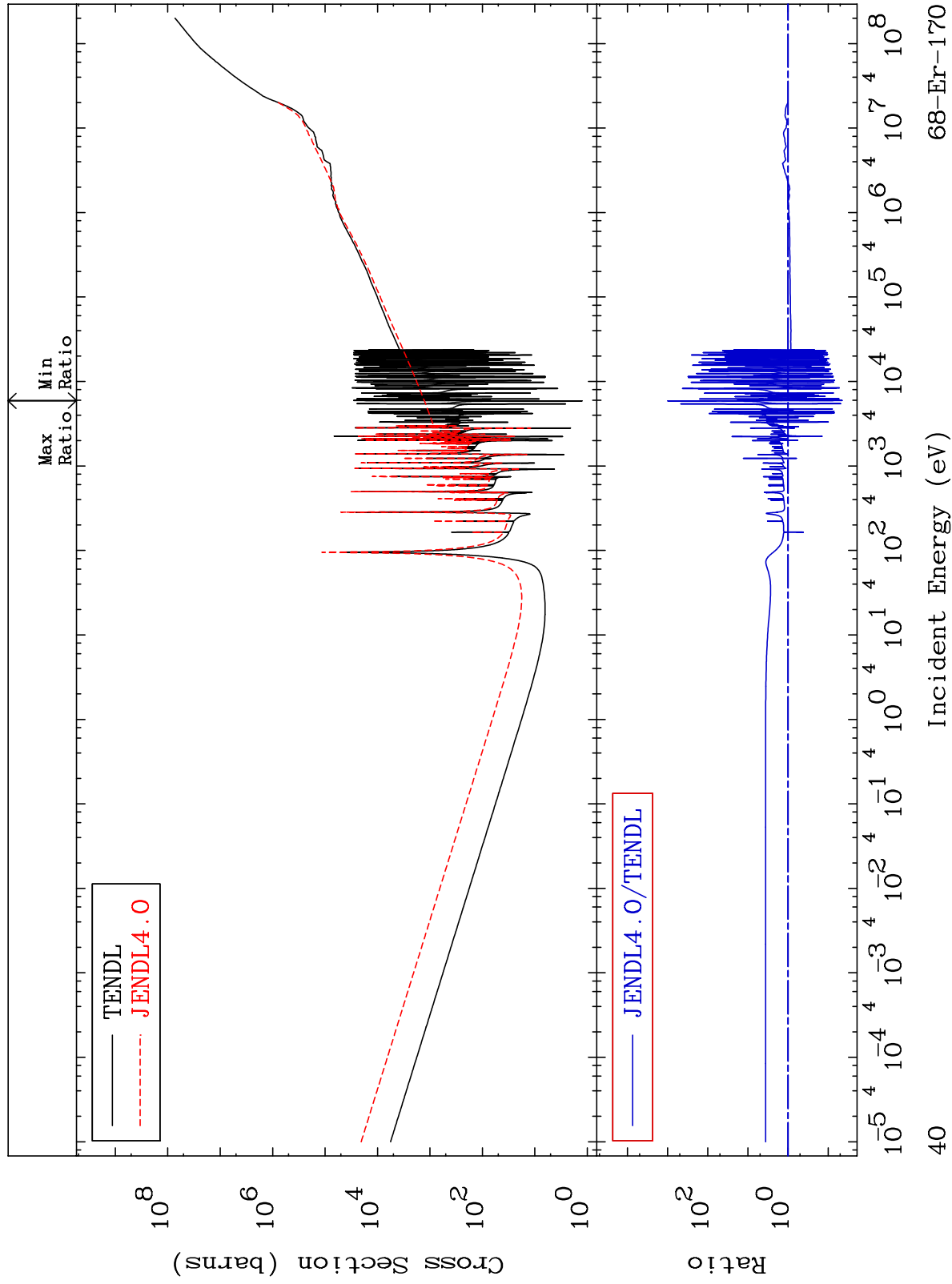
68-Er-170



MAT 6849

Total kinematic kerma (high limit)  
Cross Section

68-Er-170  
-95.52 To 9999. %



40

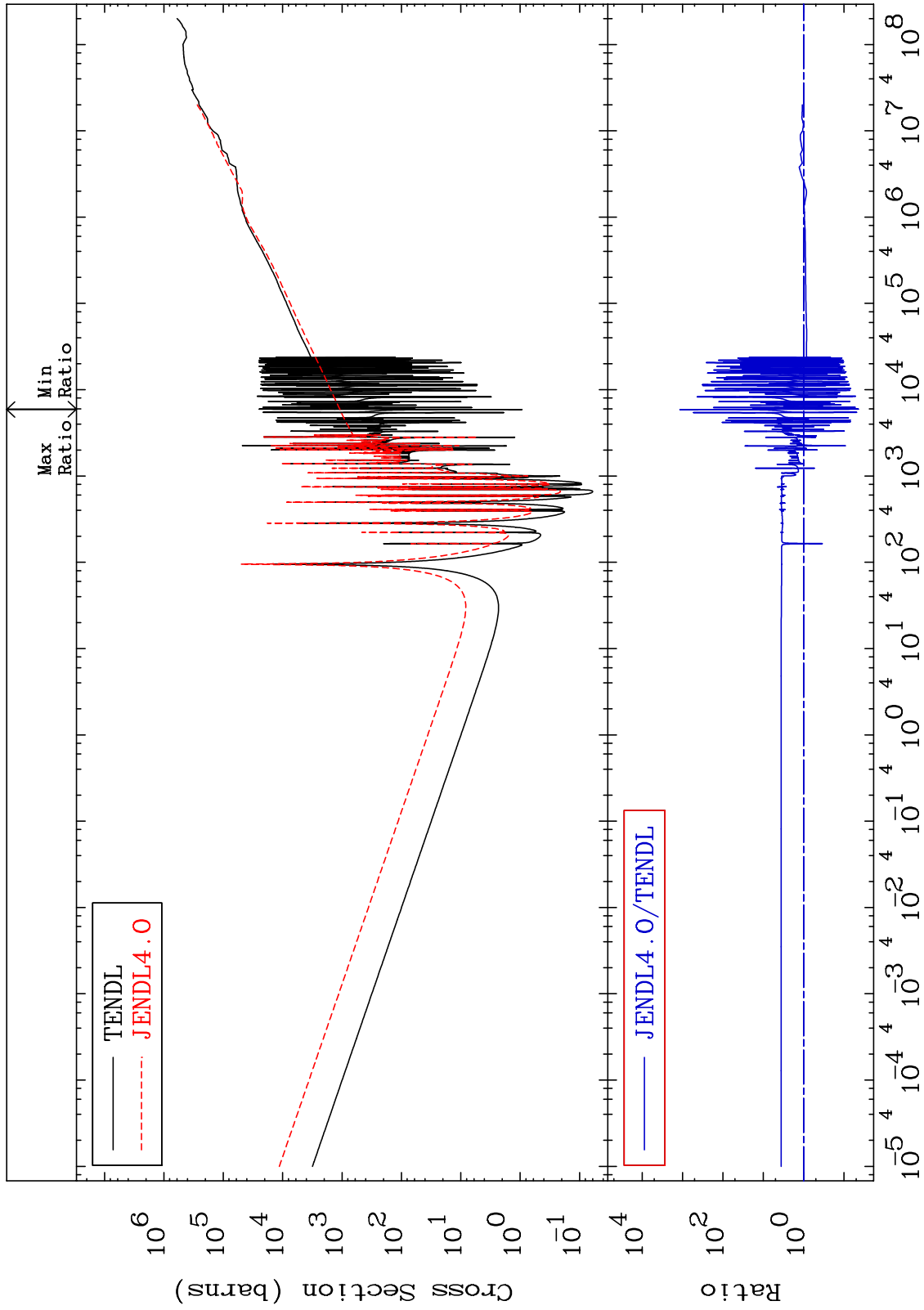
Incident Energy (eV)

68-Er-170

MAT 6849

Dpa total (eV-barns)  
Cross Section

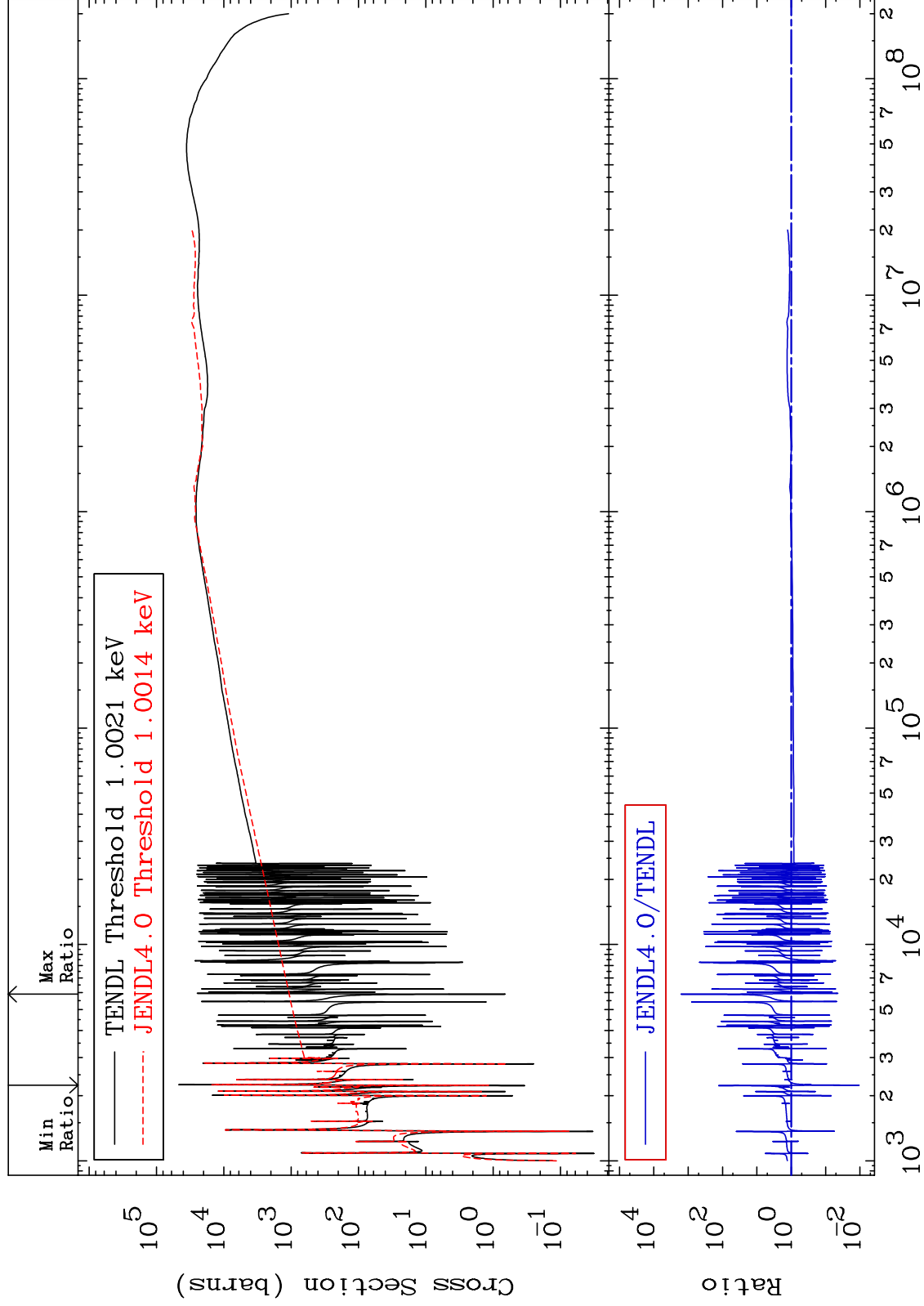
68-Er-170  
-95.62 To 9999. %



MAT 6849

Dpa elastic (mt2)  
Cross Section

68-Er-170  
-98.95 To 9999. %



42

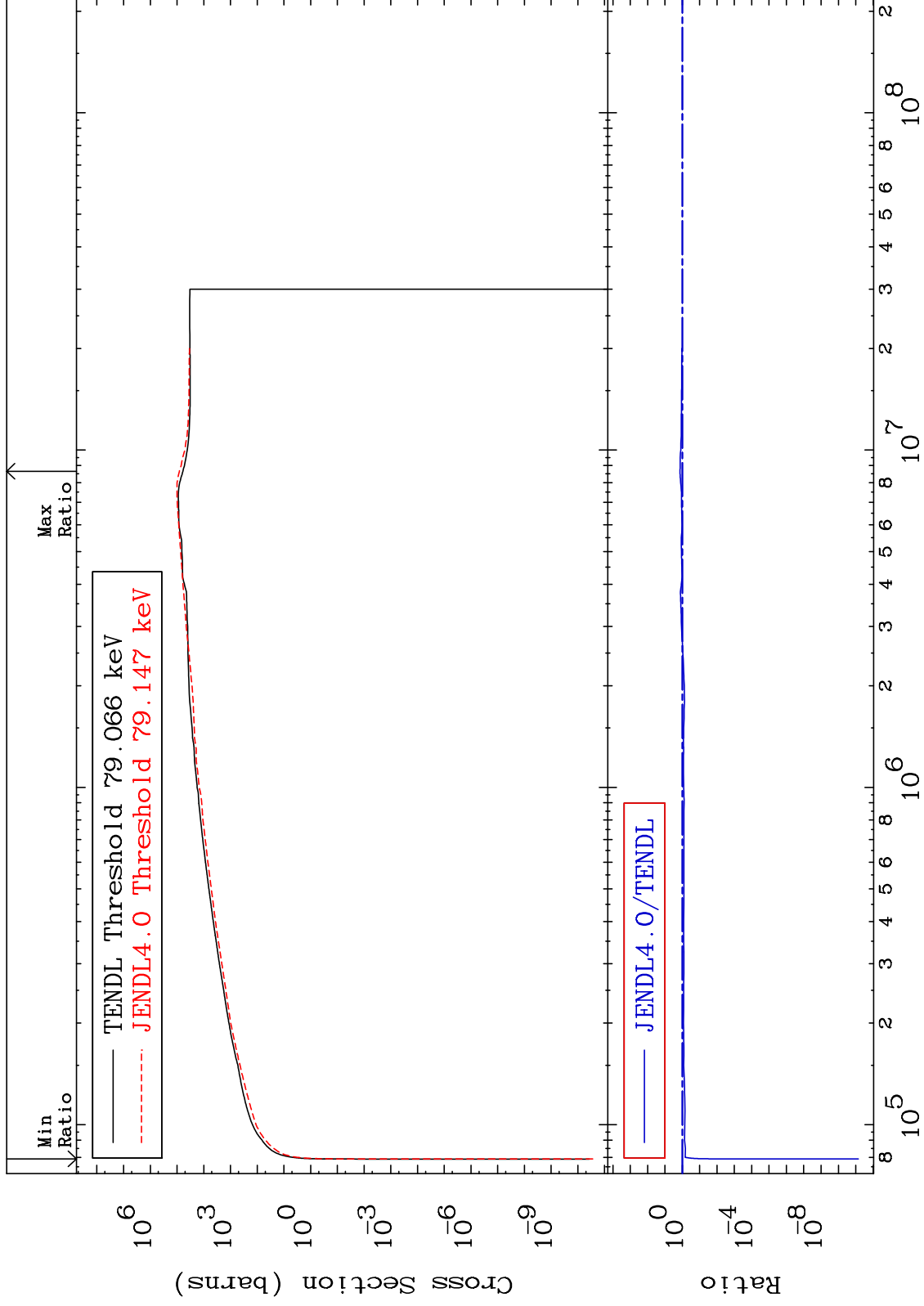
68-Er-170

68-Er-170

MAT 6849

Dpa inelastic (mt51-91)  
Cross Section

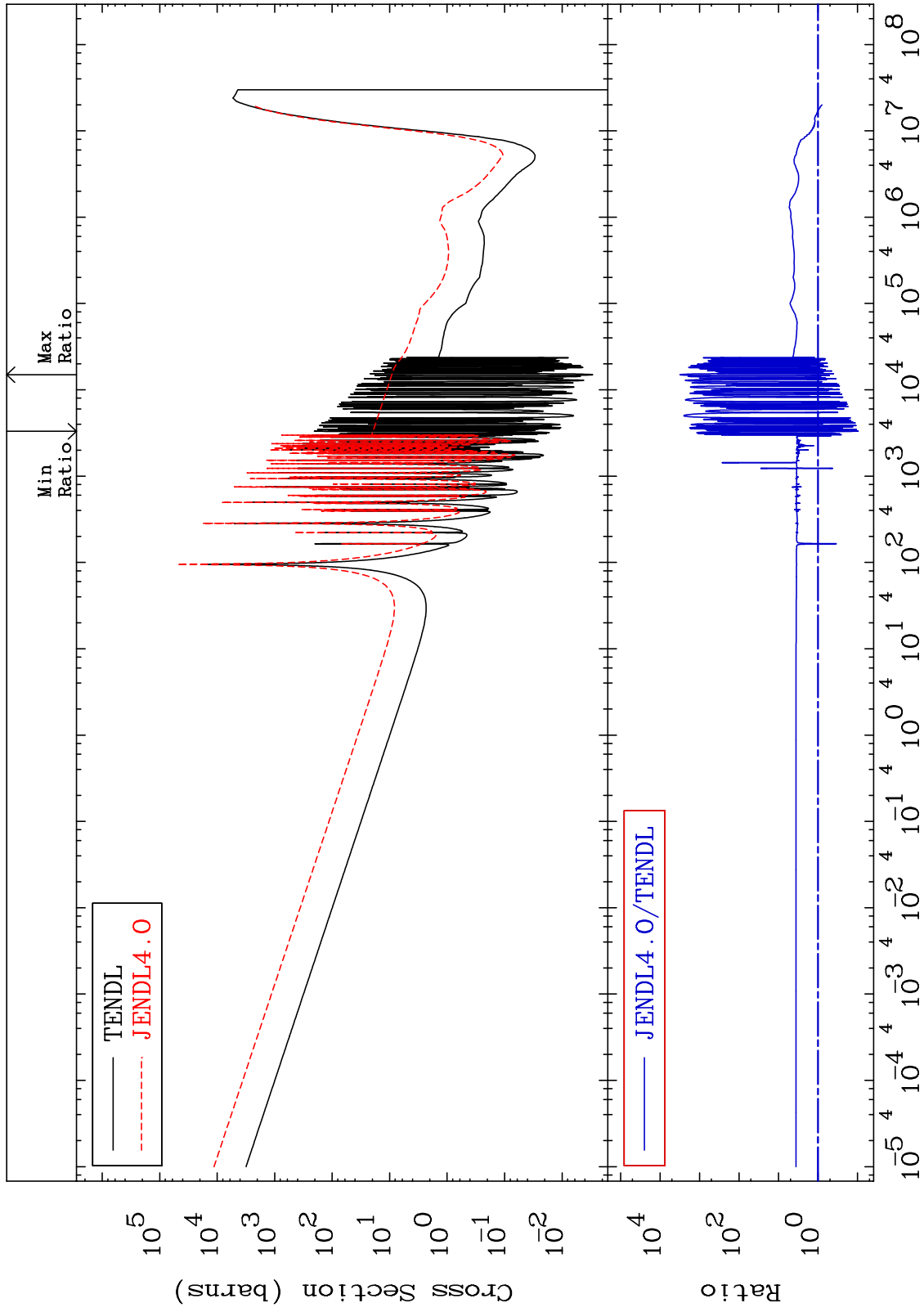
68-Er-170  
-100.0 To 35.03 %

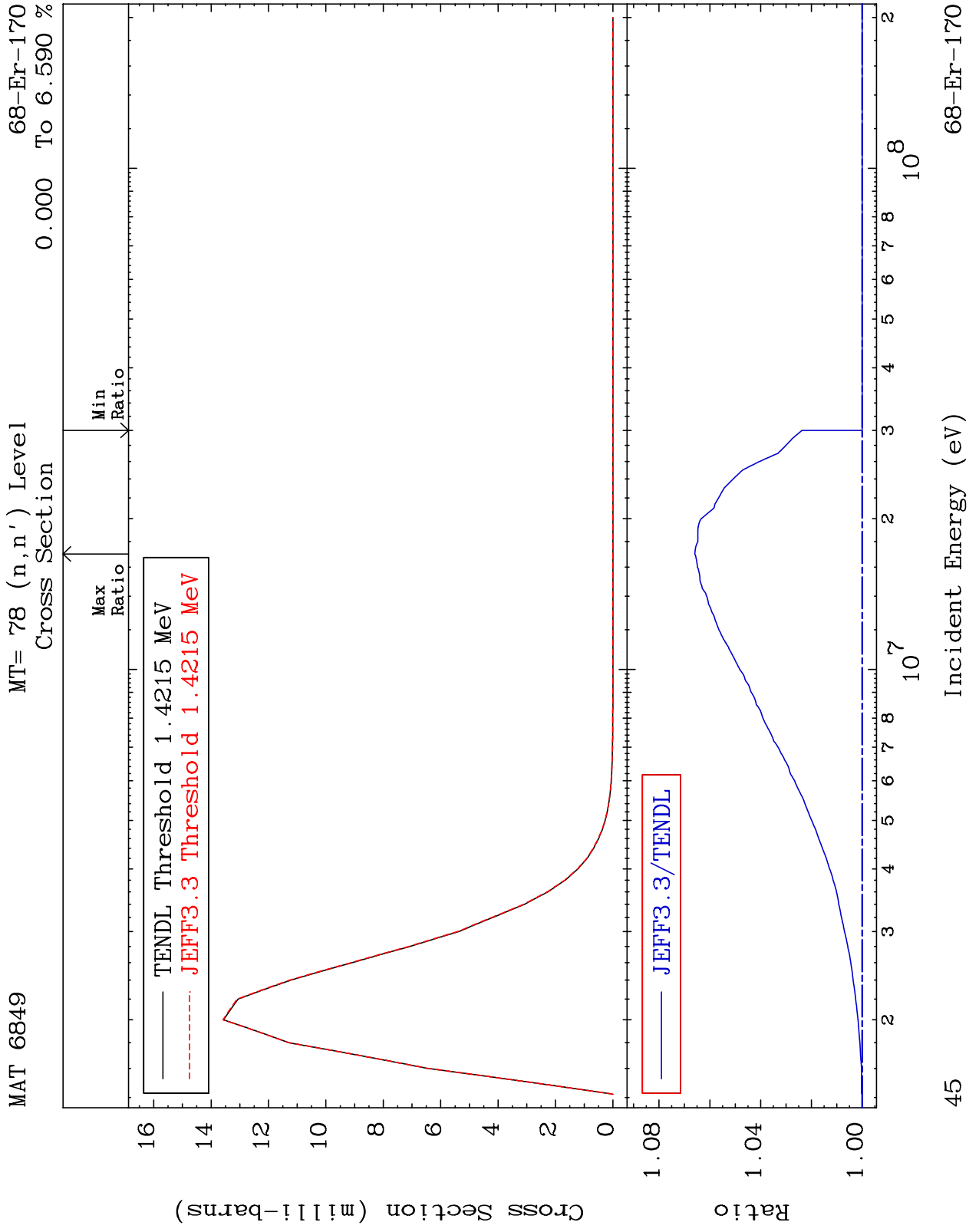


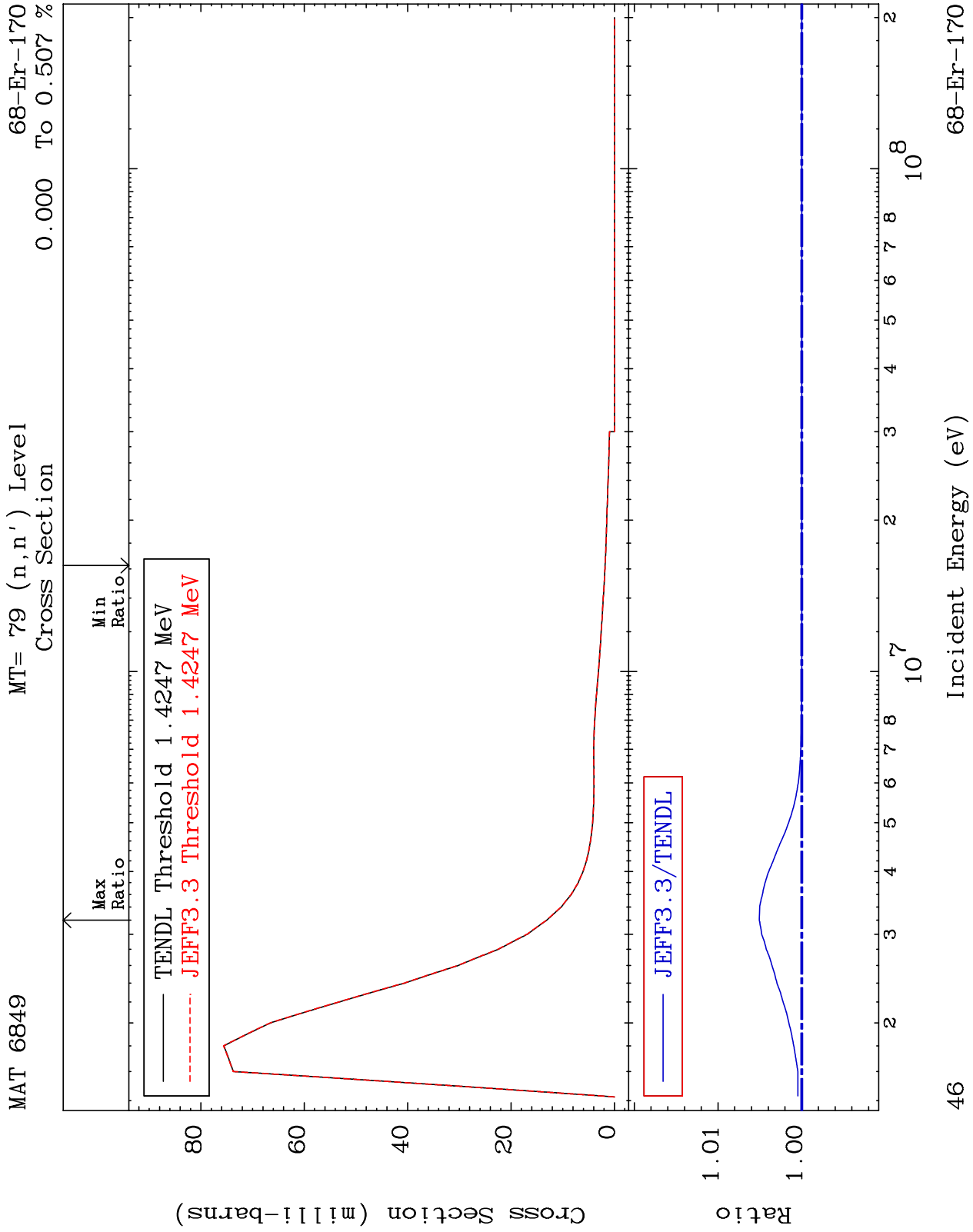
MAT 6849

Dpa disappearance (mt102 -120)  
Cross Section

68-Er-170  
-90.50 To 9999. %



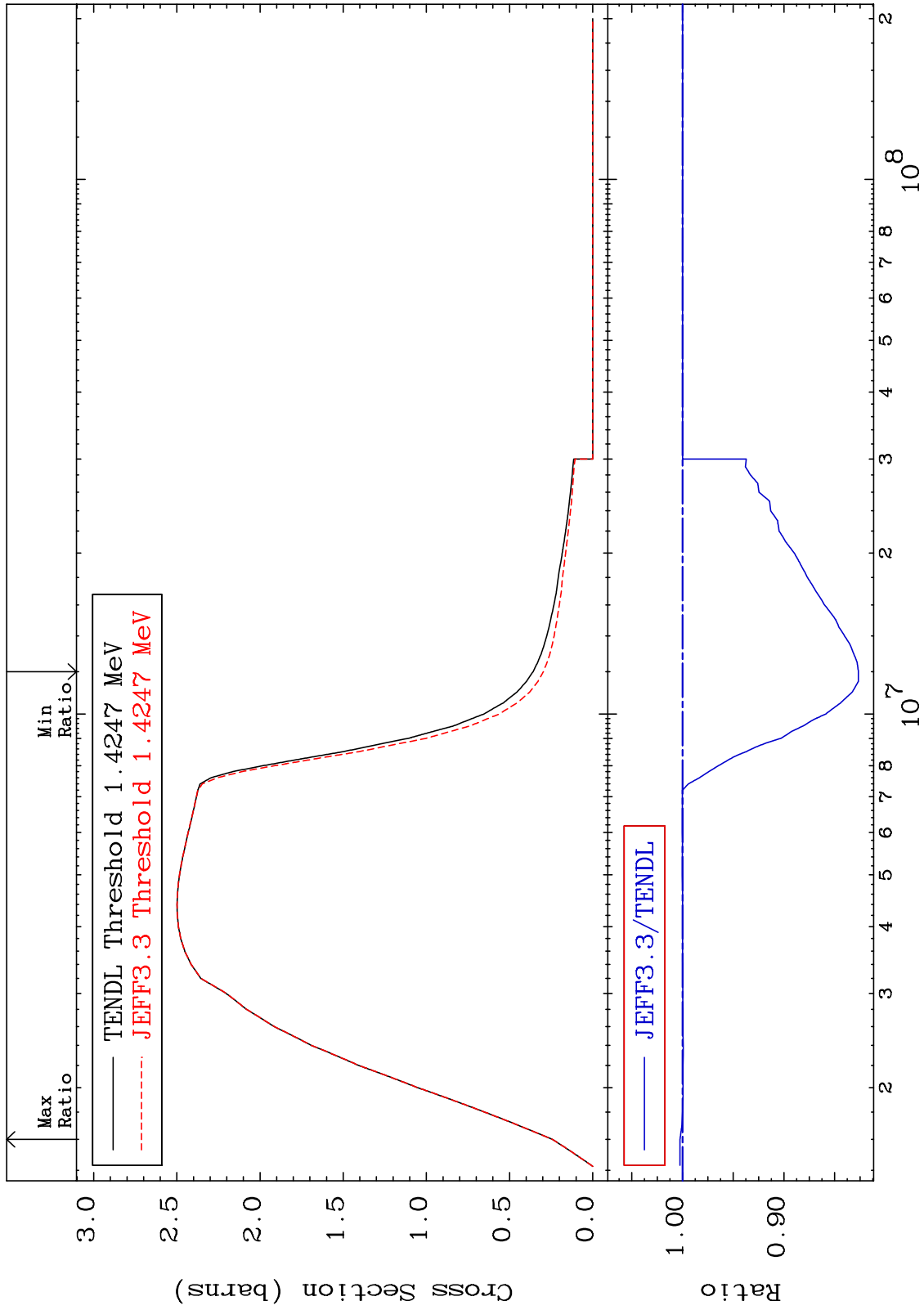




MAT 6849

(n, n') Continuum  
Cross Section

68-Er-170  
-17.34 To 0.247 %



47

Incident Energy (eV)

68-Er-170



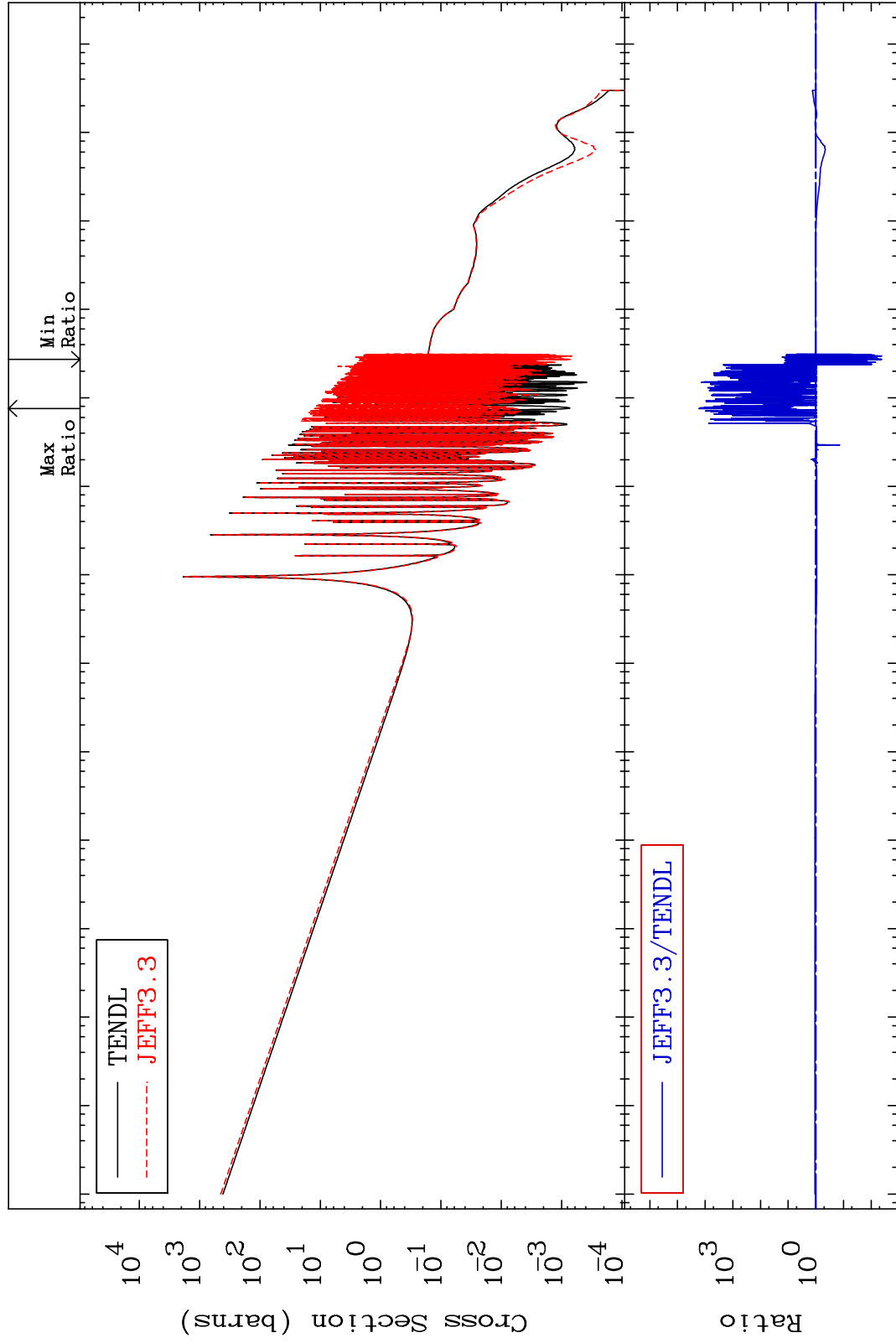
MAT 6849

(n,  $\gamma$ )

68-Er-170

Cross Section

-99.58 To 9999. %



48

Incident Energy (eV)

68-Er-170

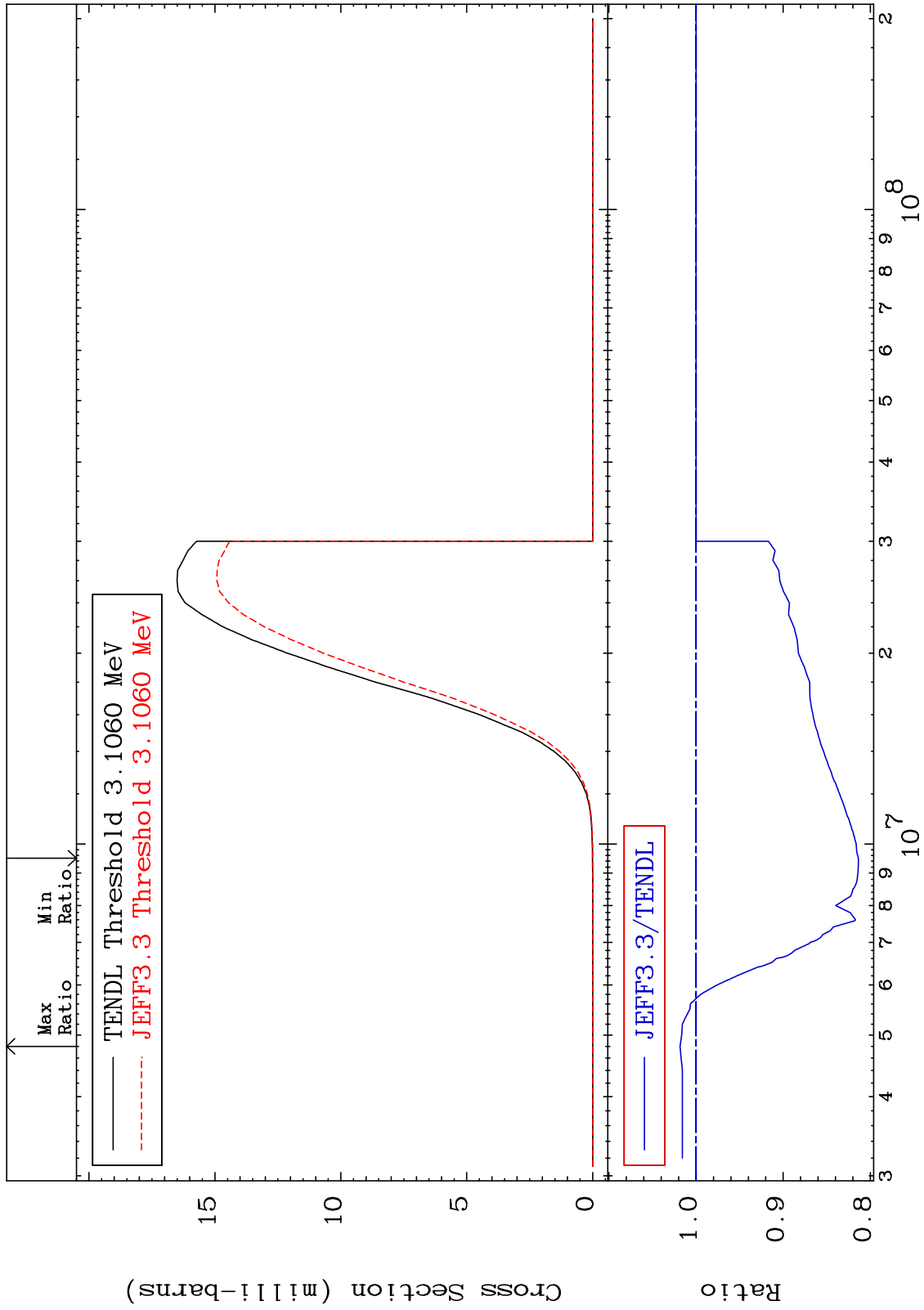
MAT 6849

(n, p)

68-Er-170

Cross Section

-18.63 To 1.840 %



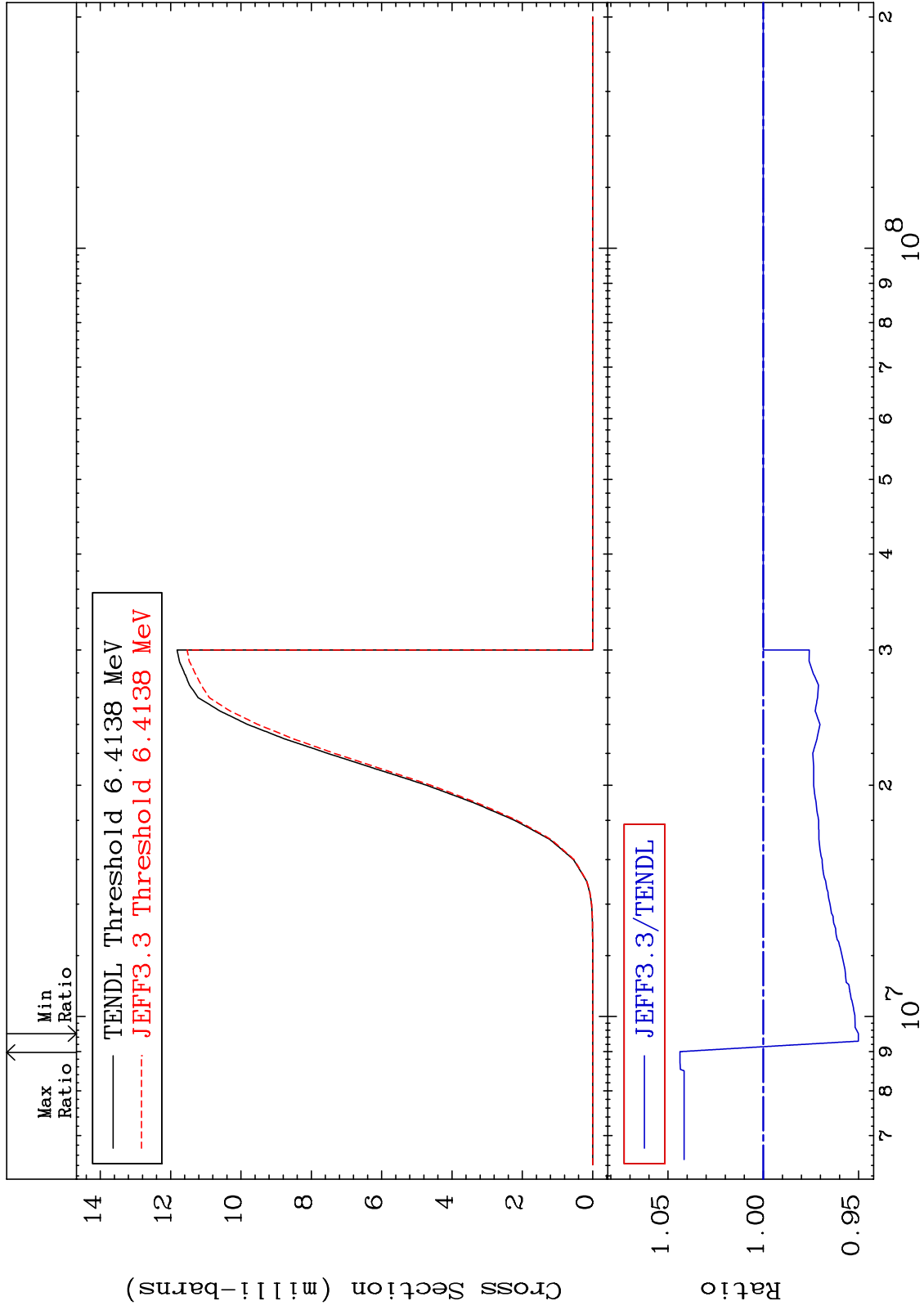
MAT 6849

(n, d)

68-Er-170

Cross Section

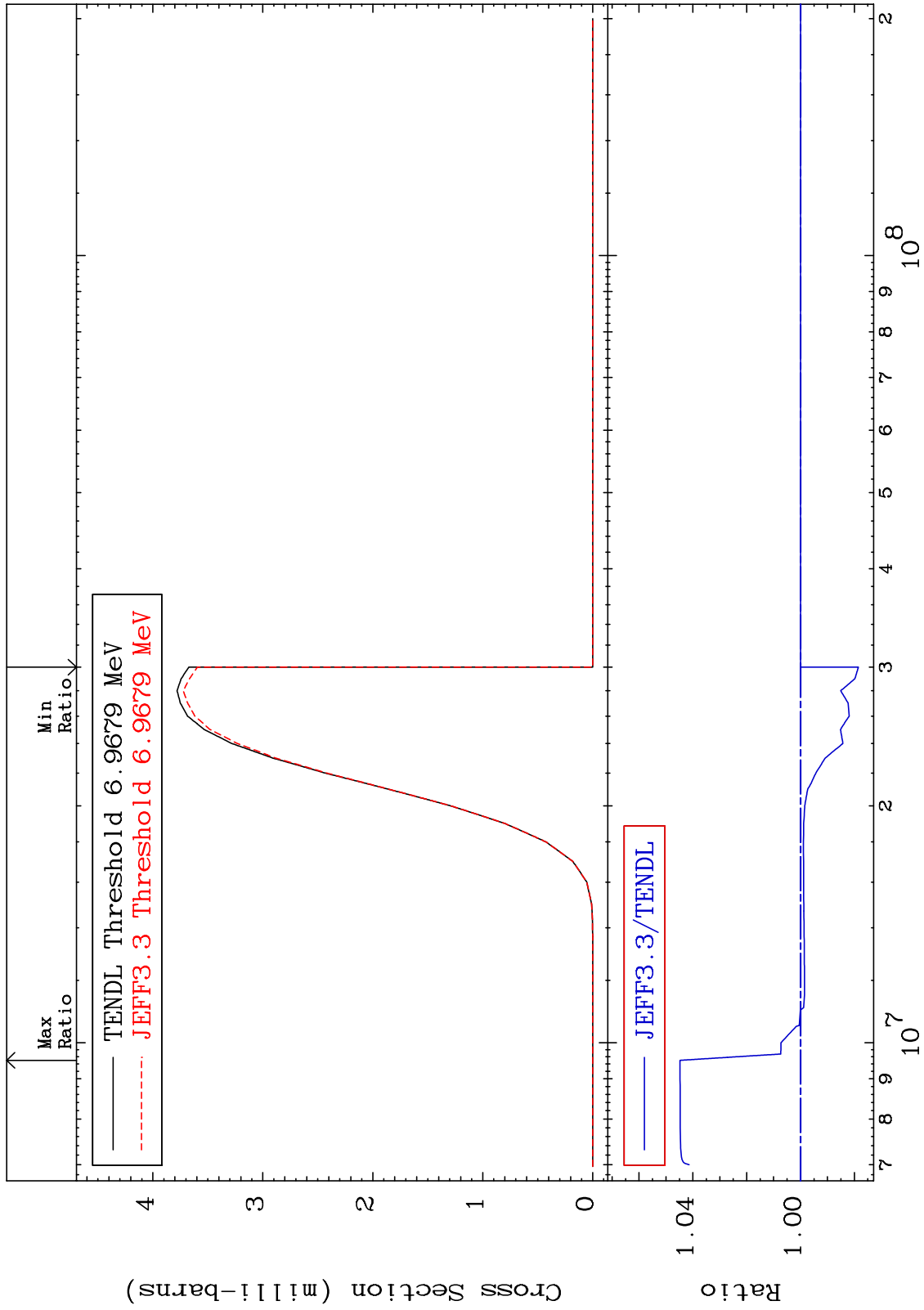
-4.991 To 4.372 %



50

Incident Energy (eV)

68-Er-170



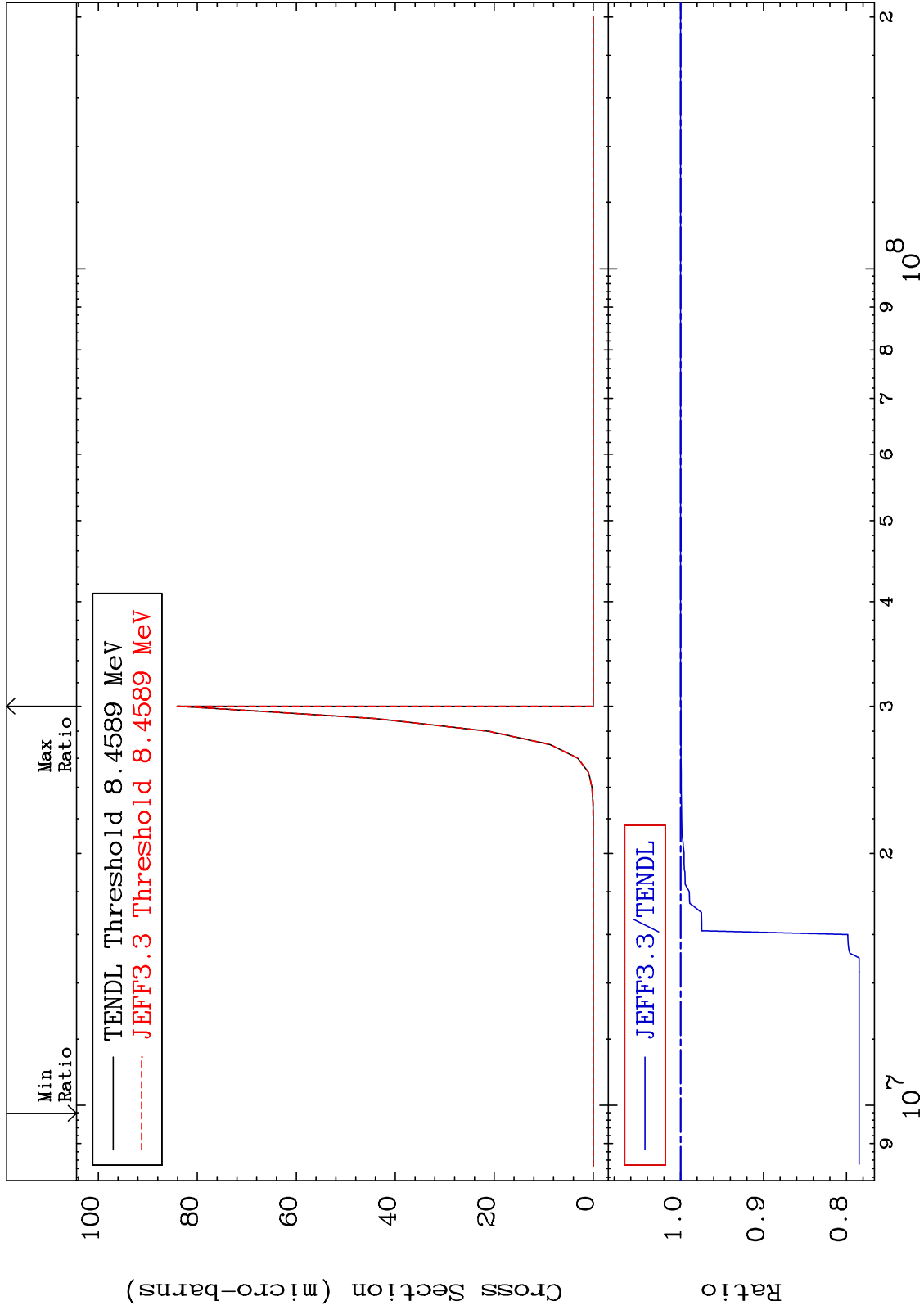
MAT 6849

(n, He-3)

68-Er-170

Cross Section

-21.53 To 0.000 %



52

Incident Energy (eV)

68-Er-170

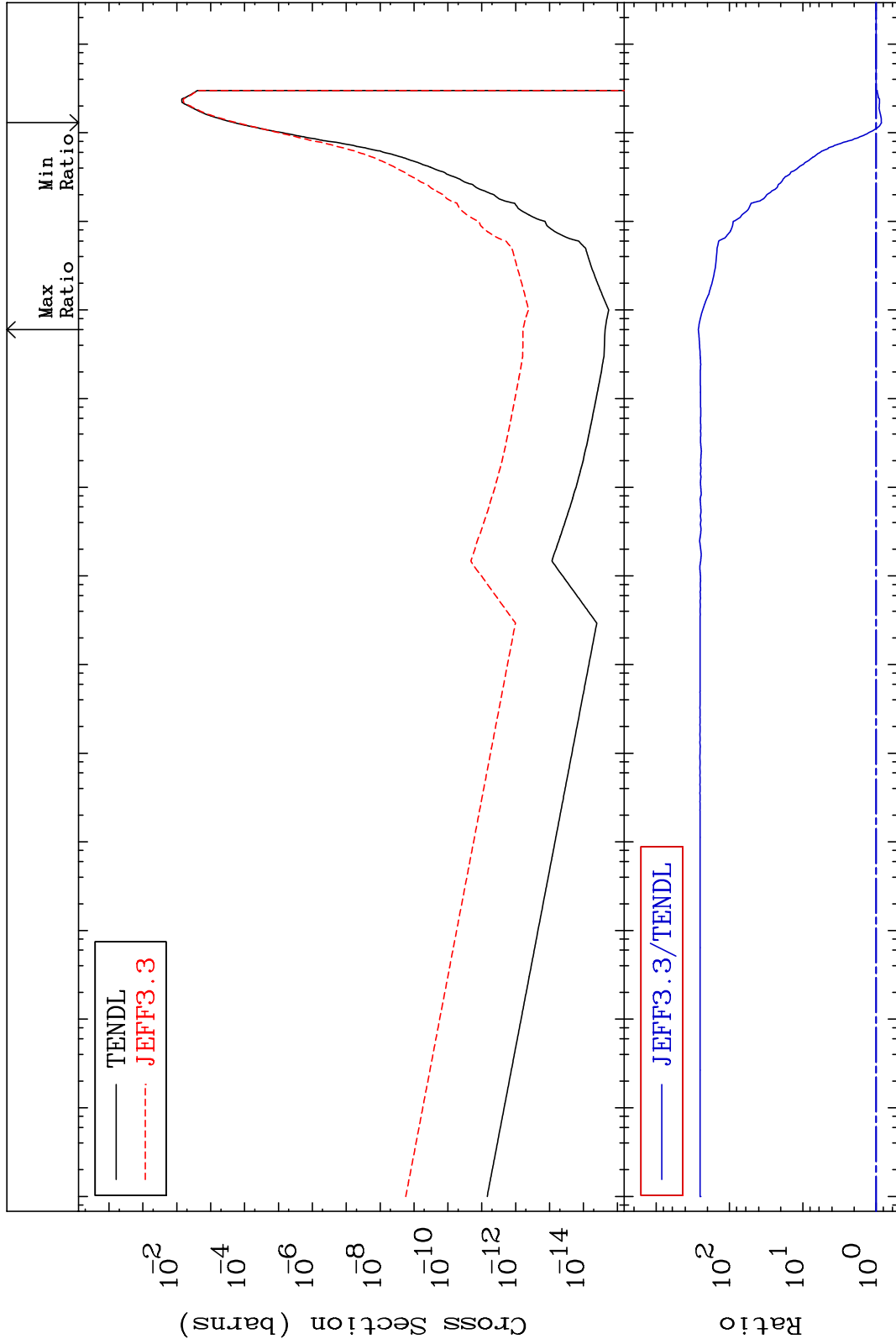
MAT 6849

(n,  $\alpha$ )

68-Er-170

Cross Section

-15.51 To 9999. %



Incident Energy (eV)

53

68-Er-170

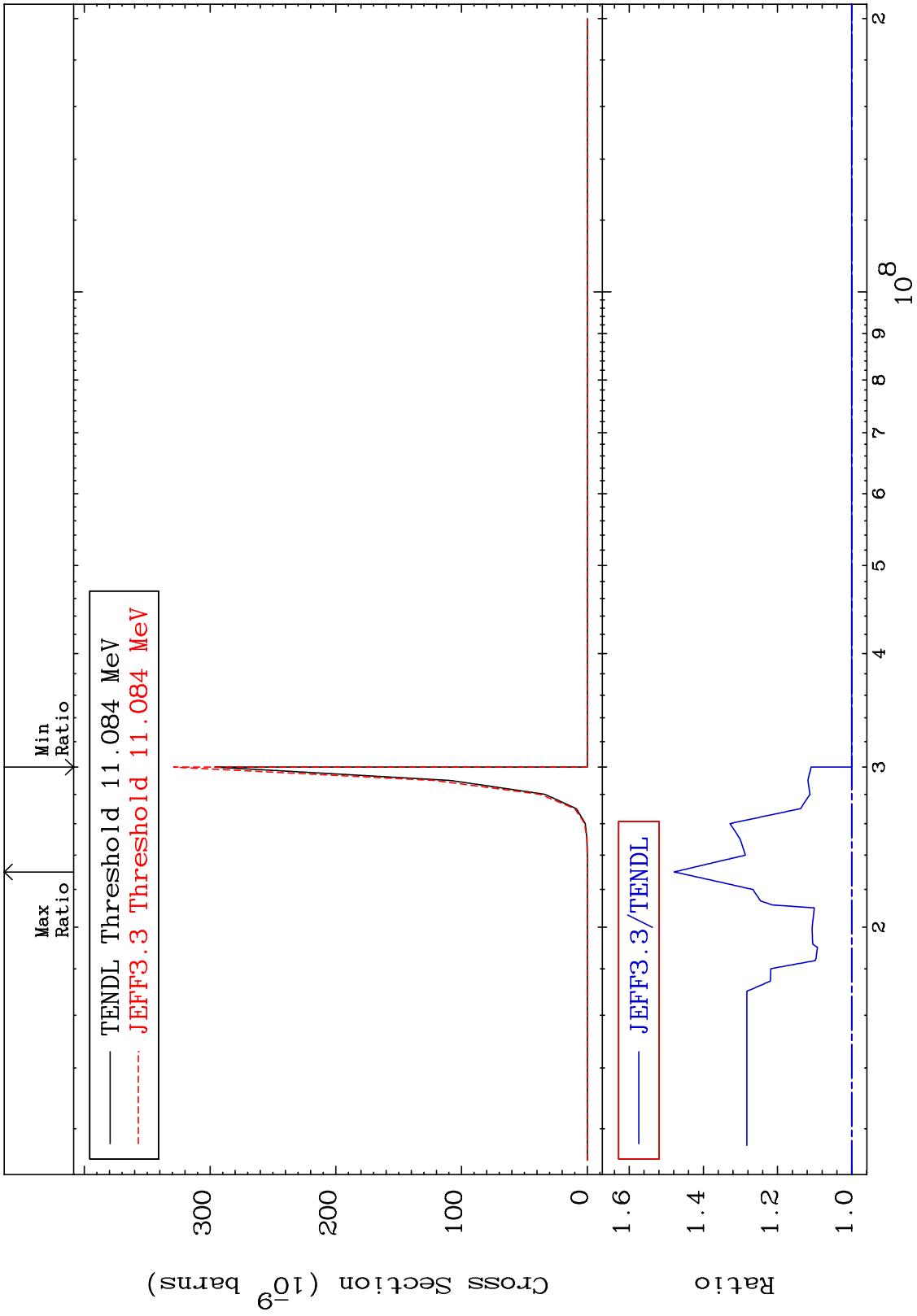
MAT 6849

(n,2p)

68-Er-170

Cross Section

0.000 To 47.87 %



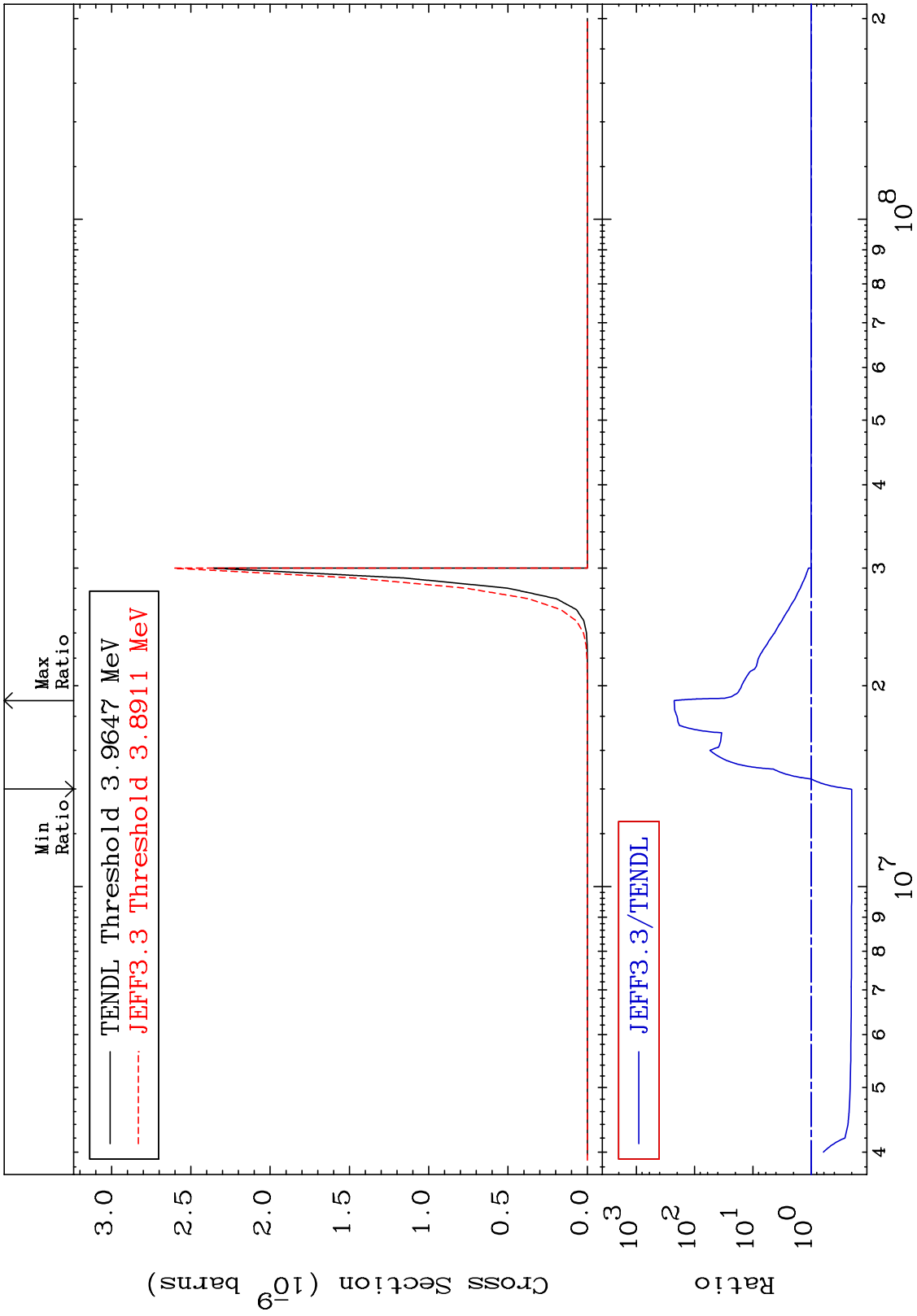
MAT 6849

(n,p)  $\alpha$

68-Er-170

-79.99 To 9999. %

Cross Section

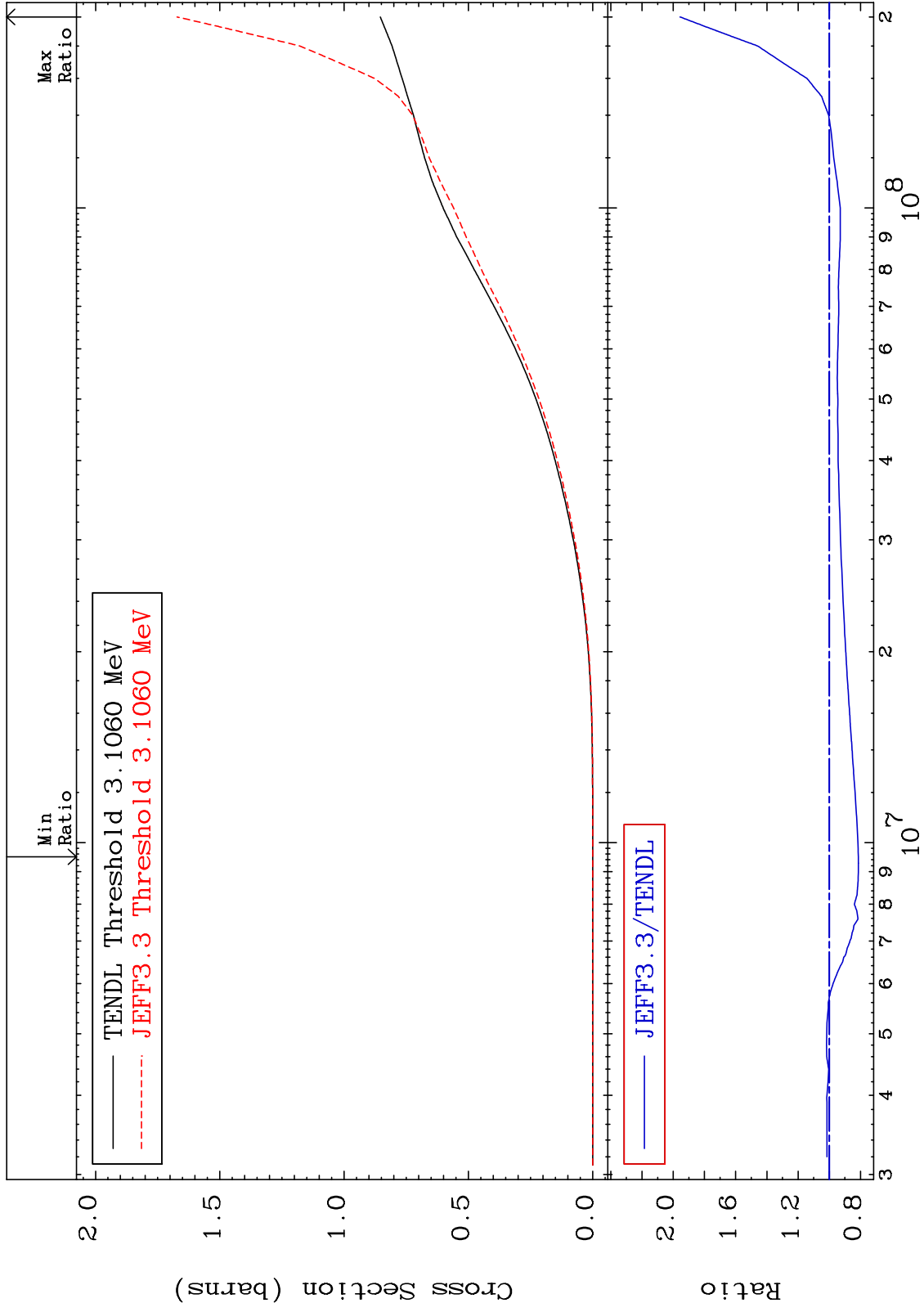




MAT 6849

Hydrogen Production  
Cross Section

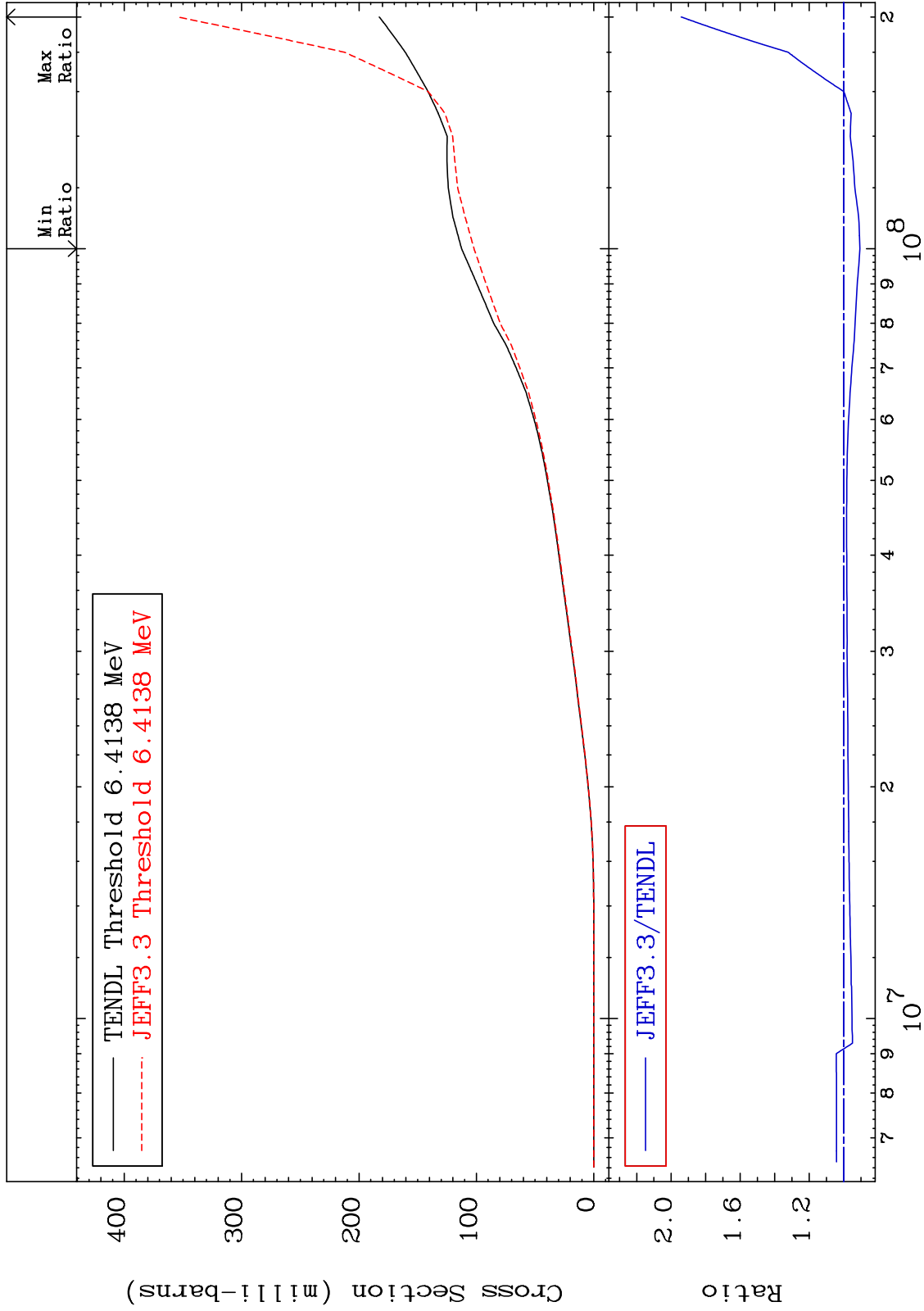
68-Er-170  
-18.63 To 95.65 %



MAT 6849

Deuterium Production  
Cross Section

68-Er-170  
-9.386 To 94.19 %



57

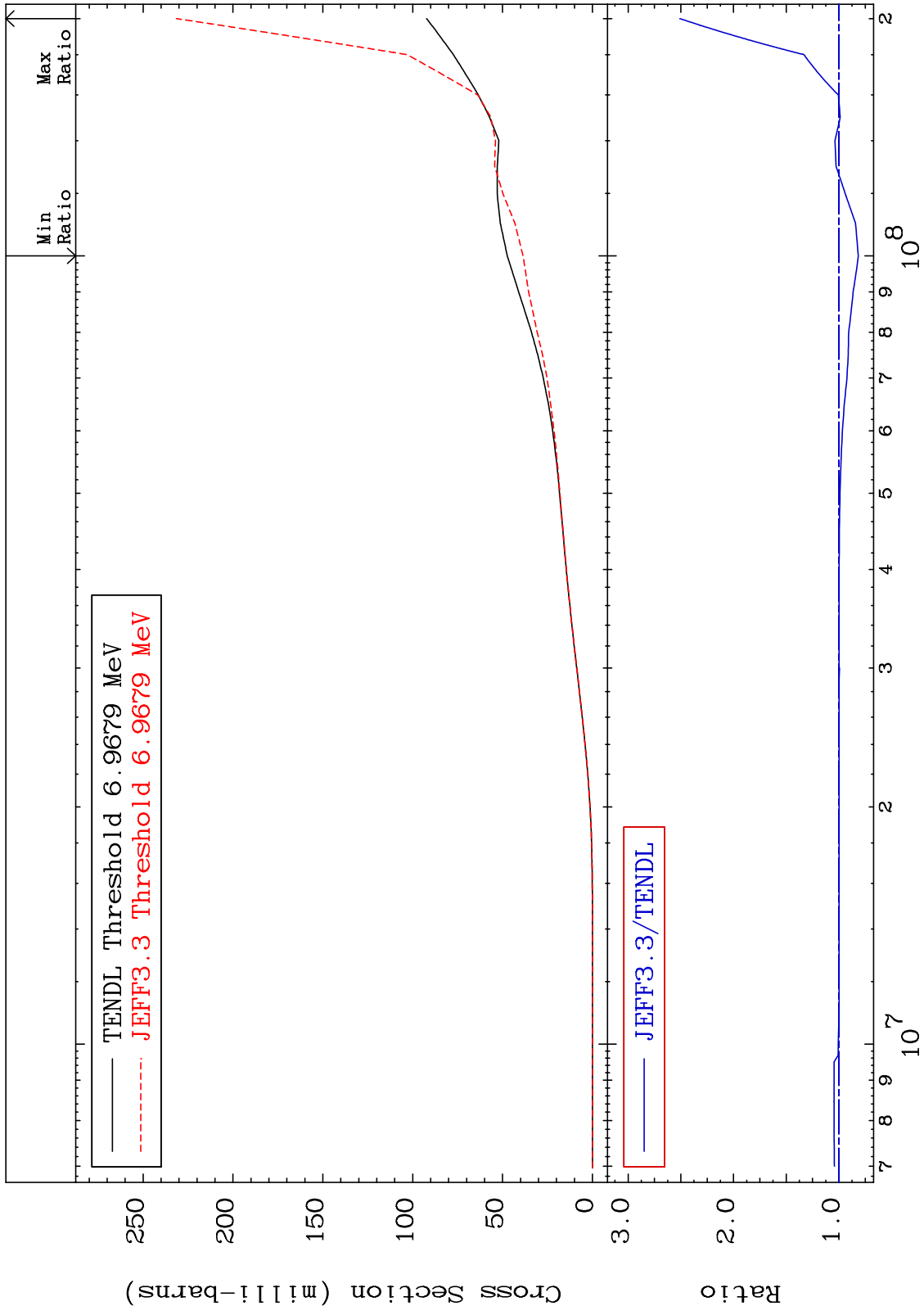
Incident Energy (eV)

68-Er-170

MAT 6849

Tritium Production  
Cross Section

68-Er-170  
-18.47 To 151.0 %



58

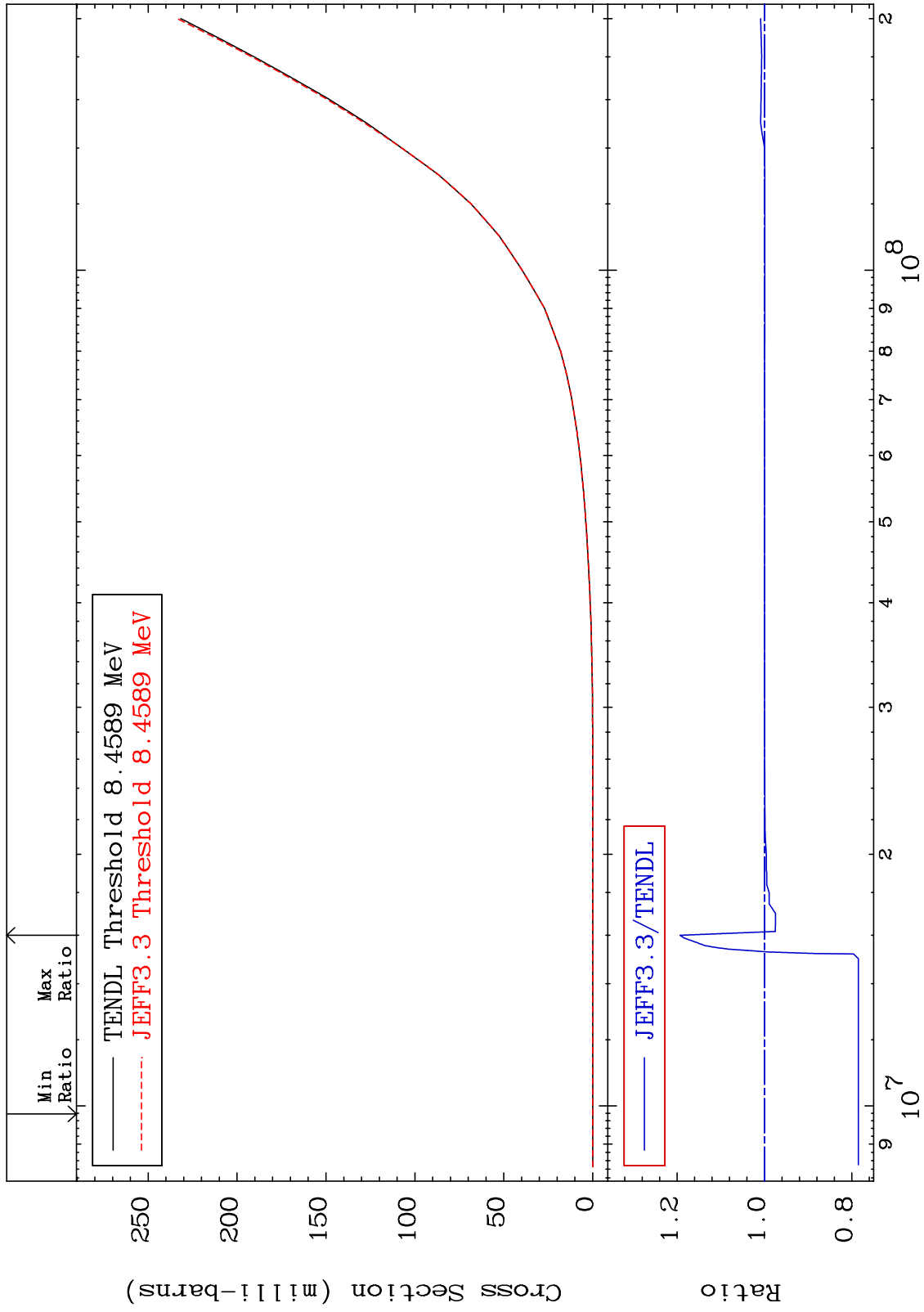
Incident Energy (eV)

68-Er-170

MAT 6849

He-3 Production  
Cross Section

68-Er-170  
-21.53 To 19.35 %



59

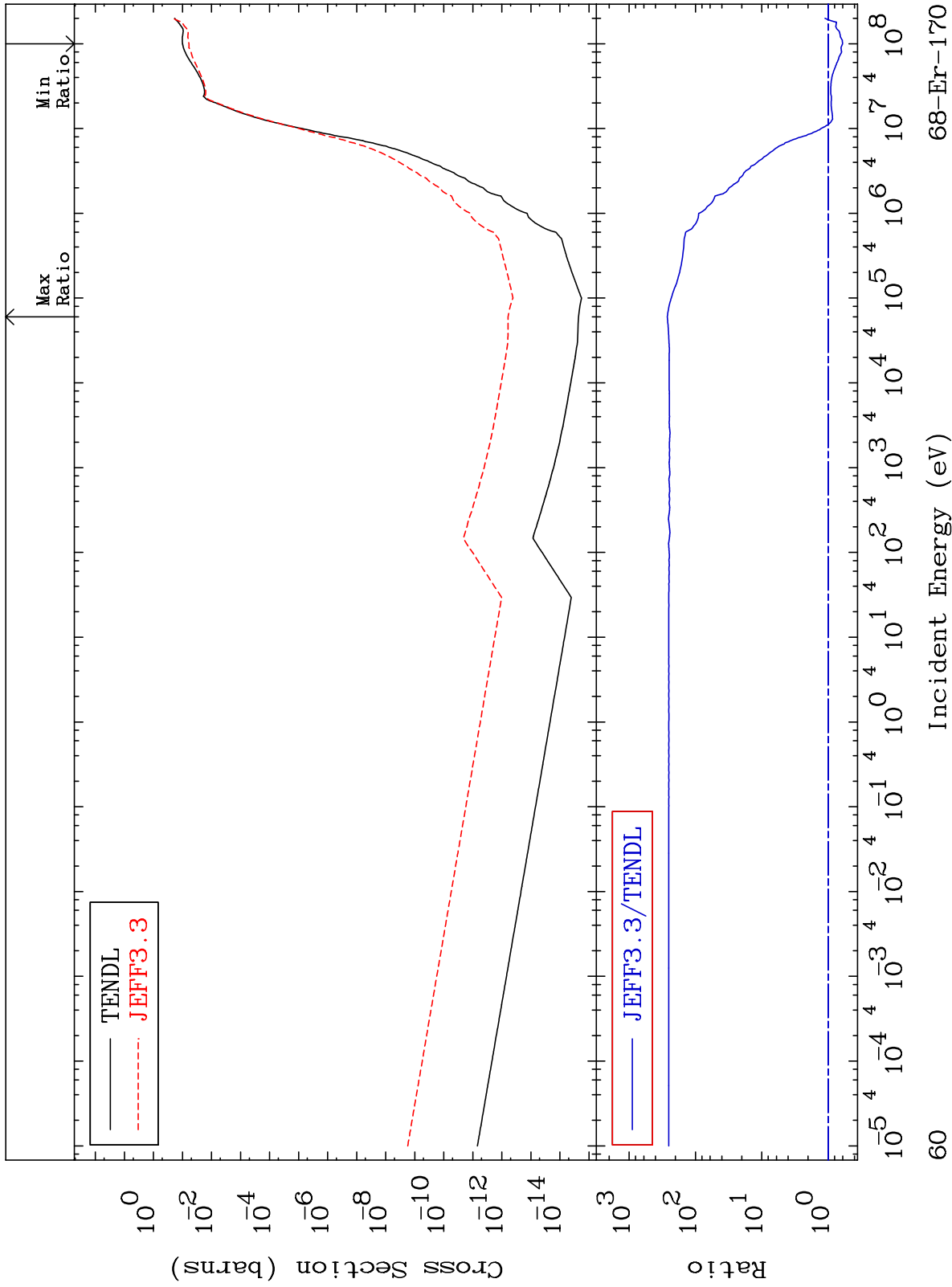
Incident Energy (eV)

68-Er-170

MAT 6849

He-4 Production  
Cross Section

68-Er-170  
-39.57 To 9999. %



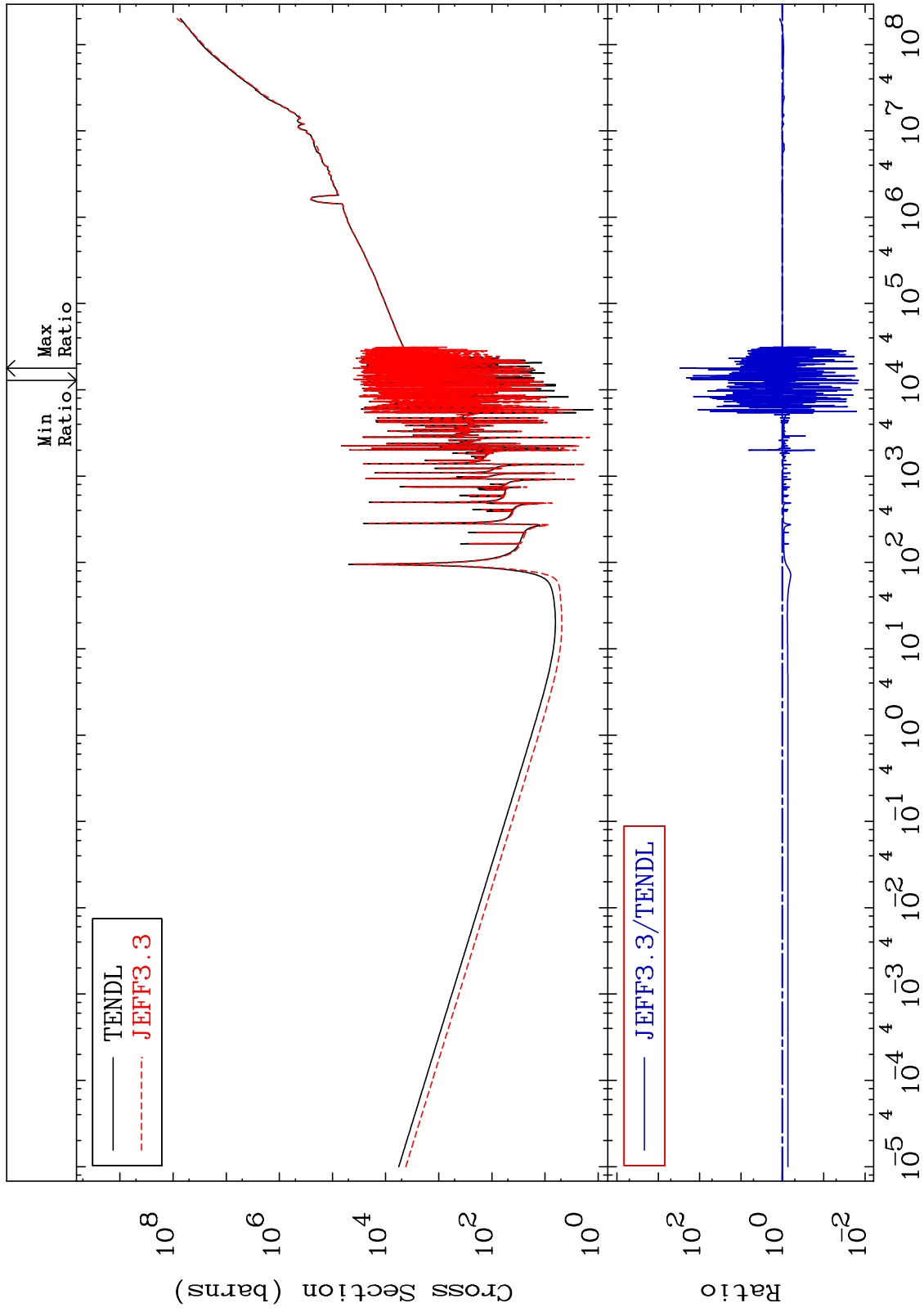
60

68-Er-170

MAT 6849

Kerma total (eV-barns)  
Cross Section

68-Er-170  
-98.55 To 9999. %



61

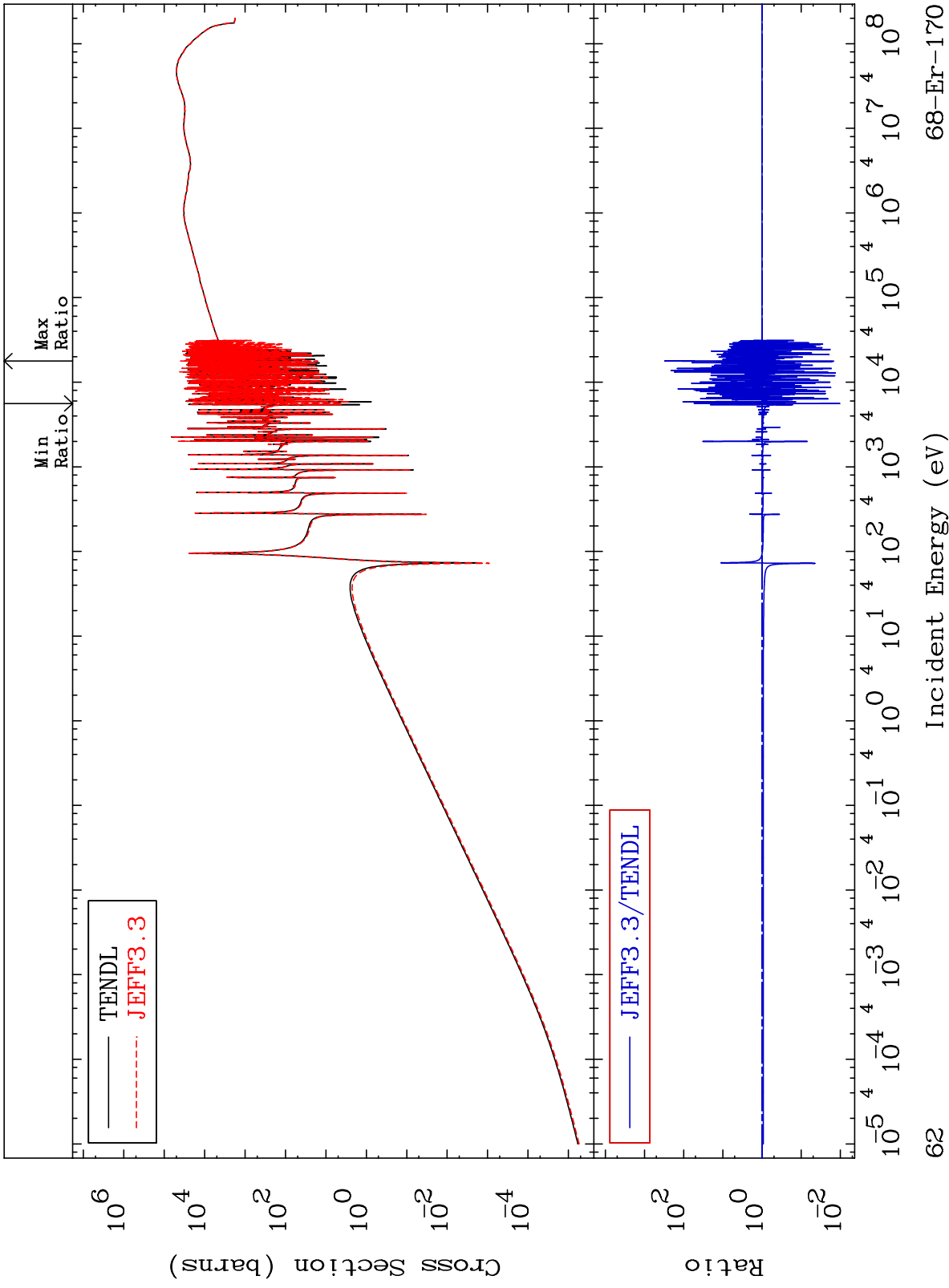
Incident Energy (eV)

68-Er-170

MAT 6849

Kerma elastic  
Cross Section

68-Er-170  
-98.96 To 9999. %



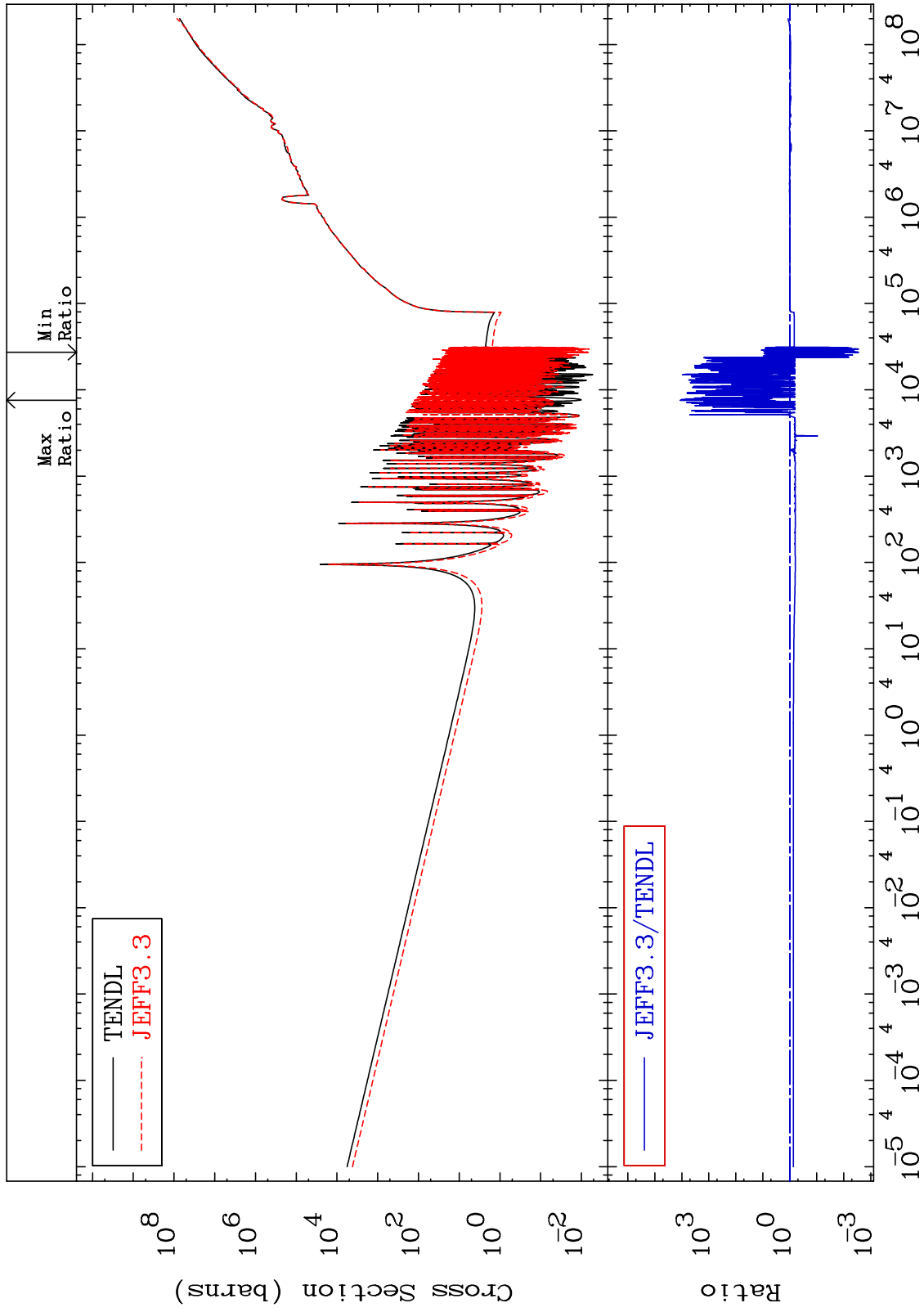
62

68-Er-170

MAT 6849

Kerma non-elastic (all but mt2)  
Cross Section

68-Er-170  
-99.71 To 9999. %



63

Incident Energy (eV)

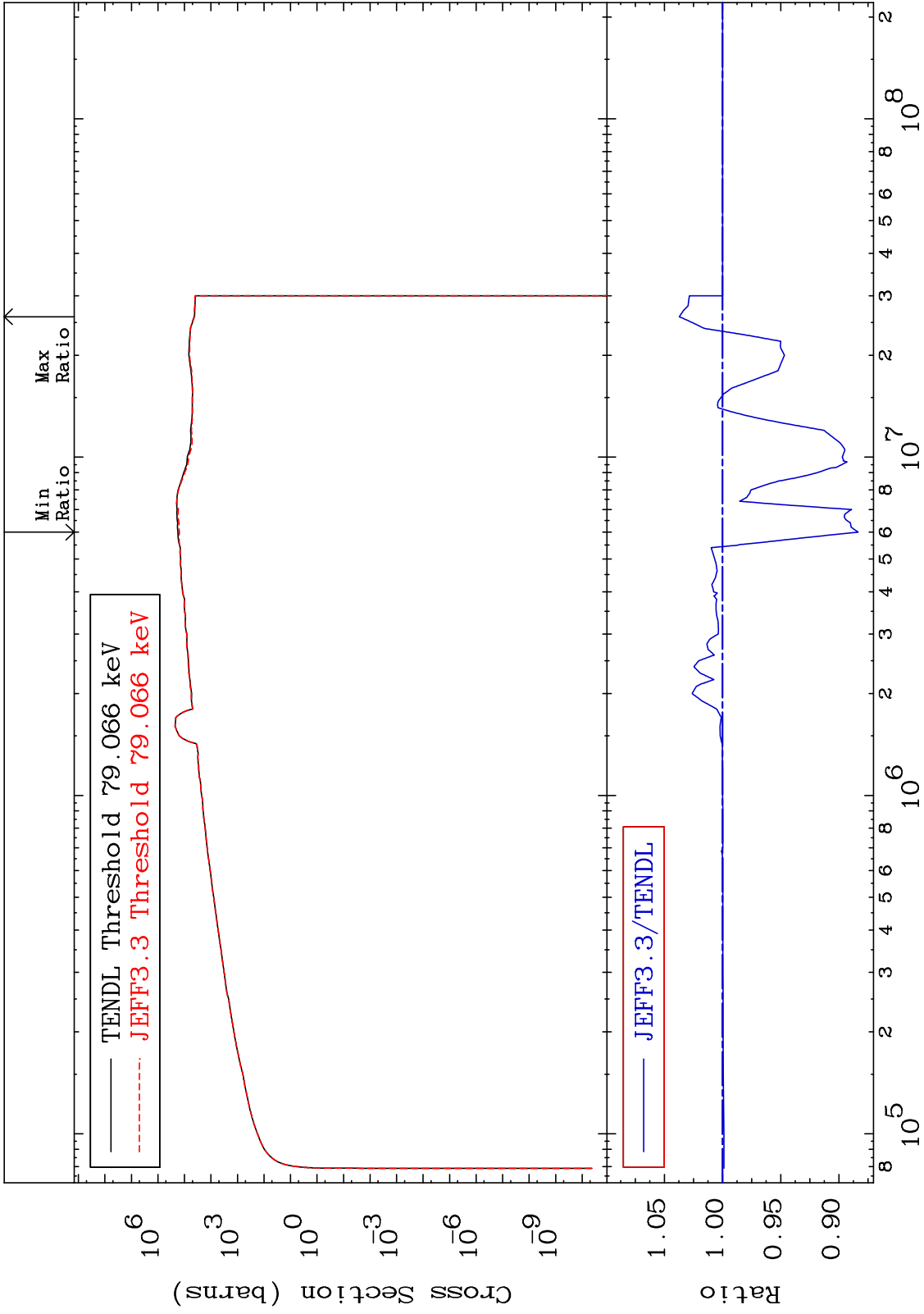
68-Er-170



MAT 6849

Kerma inelastic (mt51-91)  
Cross Section

68-Er-170  
-11.67 To 3.708 %



64

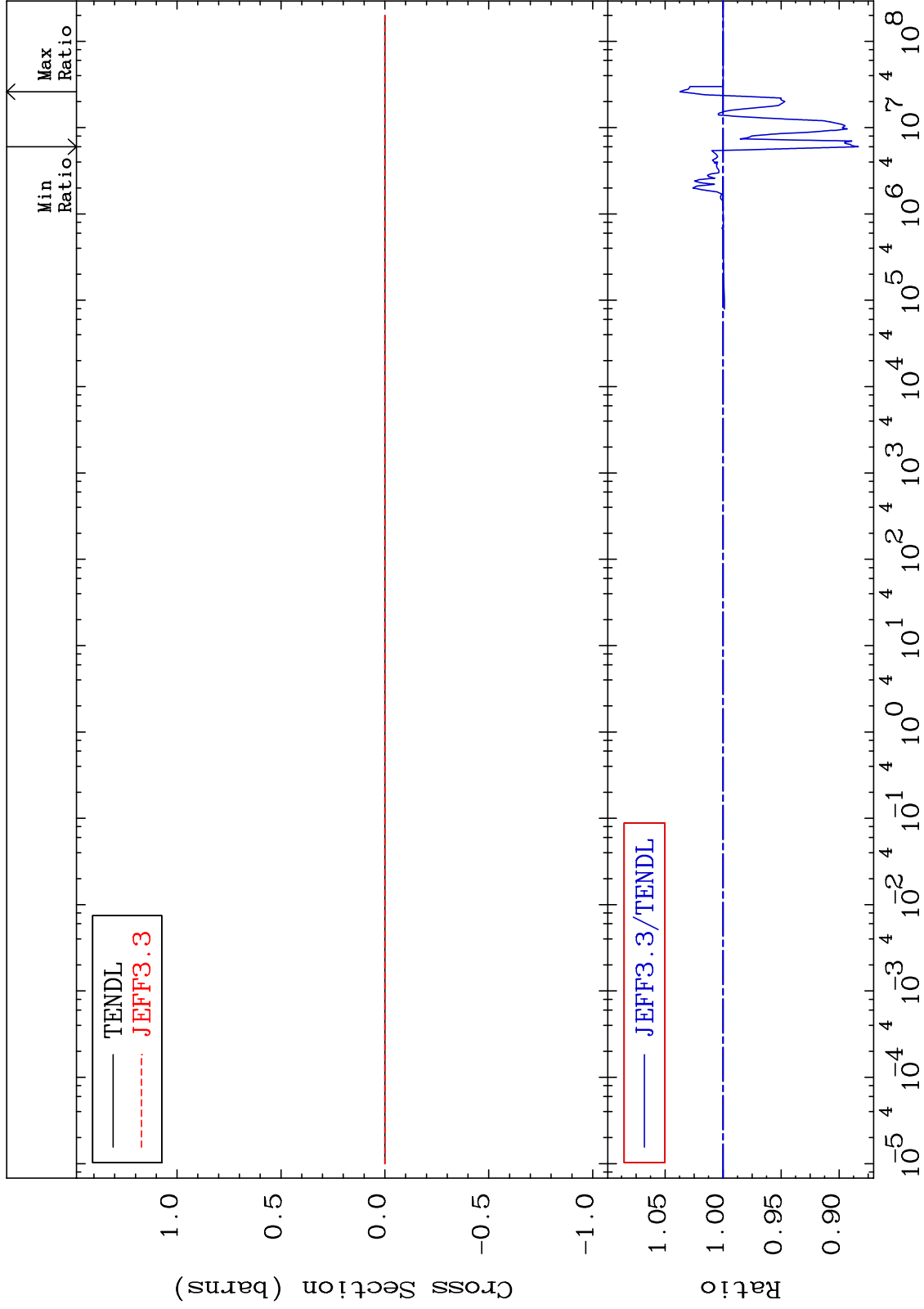
Incident Energy (eV)

68-Er-170

MAT 6849

Kerma fission (mt18 or mt19-20-21-38)  
Cross Section

68-Er-170  
-11.67 To 3.708 %



65

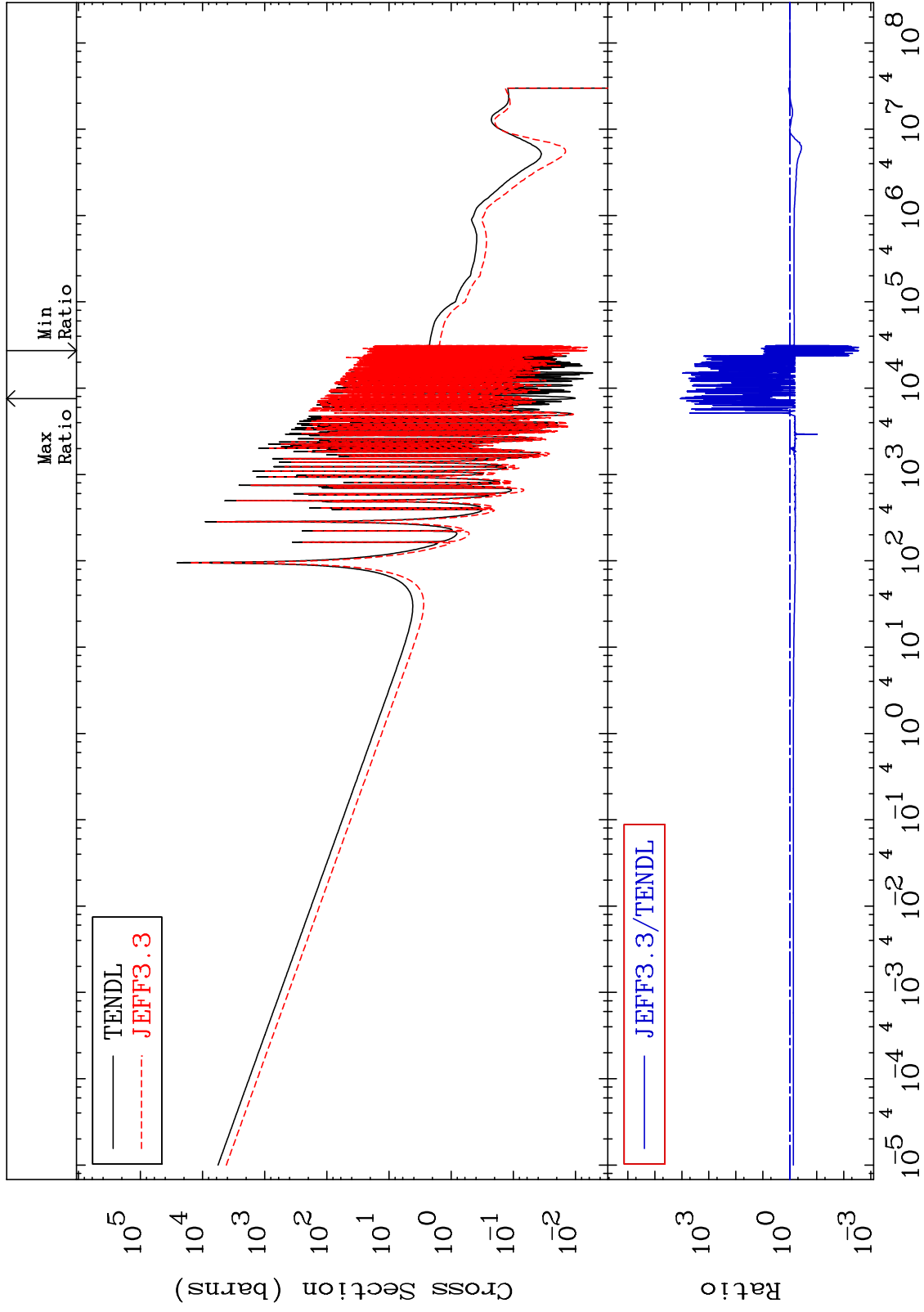
Incident Energy (eV)

68-Er-170

MAT 6849

Kerma capture (mt102)  
Cross Section

68-Er-170  
-99.71 To 9999. %



66

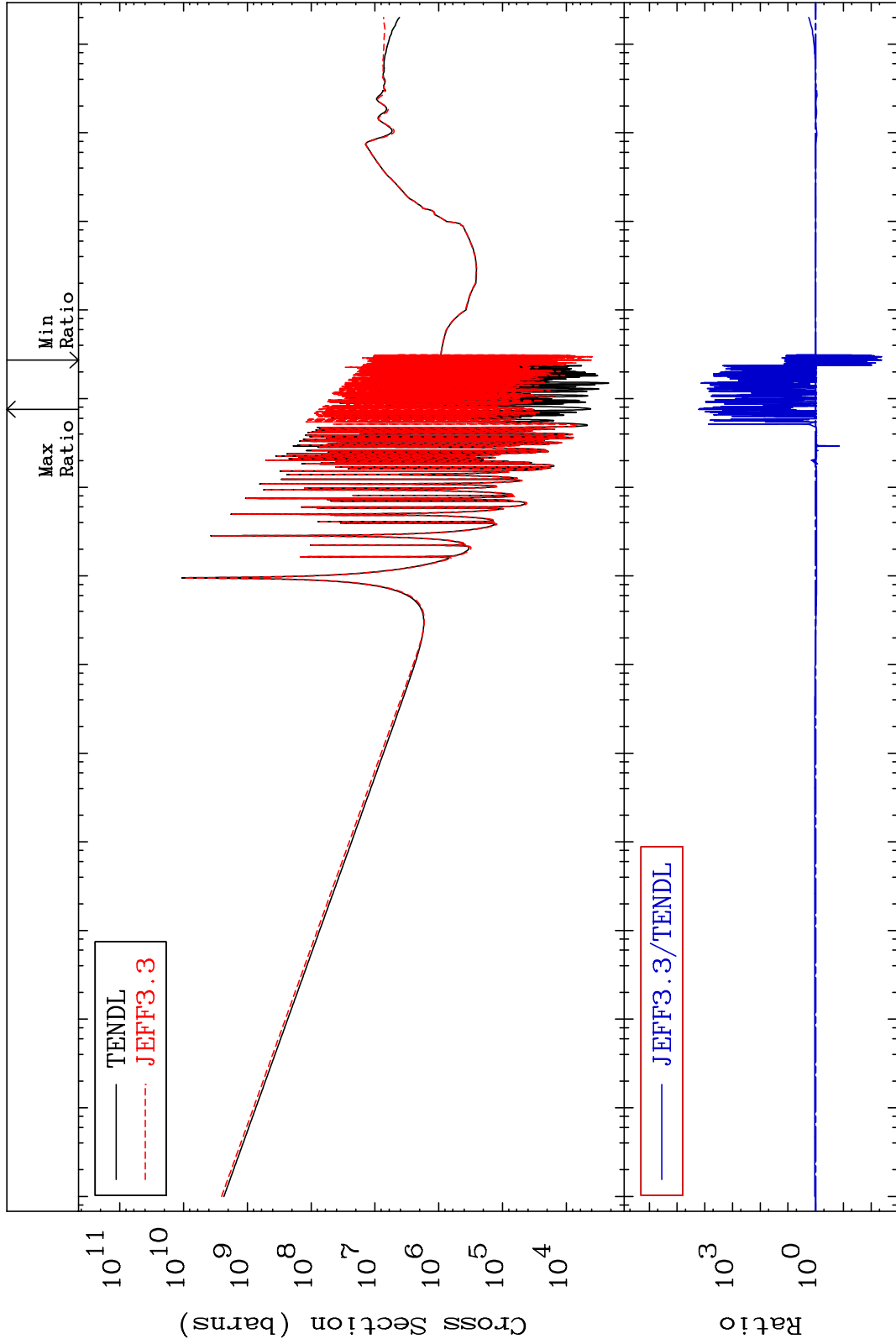
Incident Energy (eV)

68-Er-170

MAT 6849

Total photon (eV-barns)  
Cross Section

68-Er-170  
-99.58 To 9999. %



67

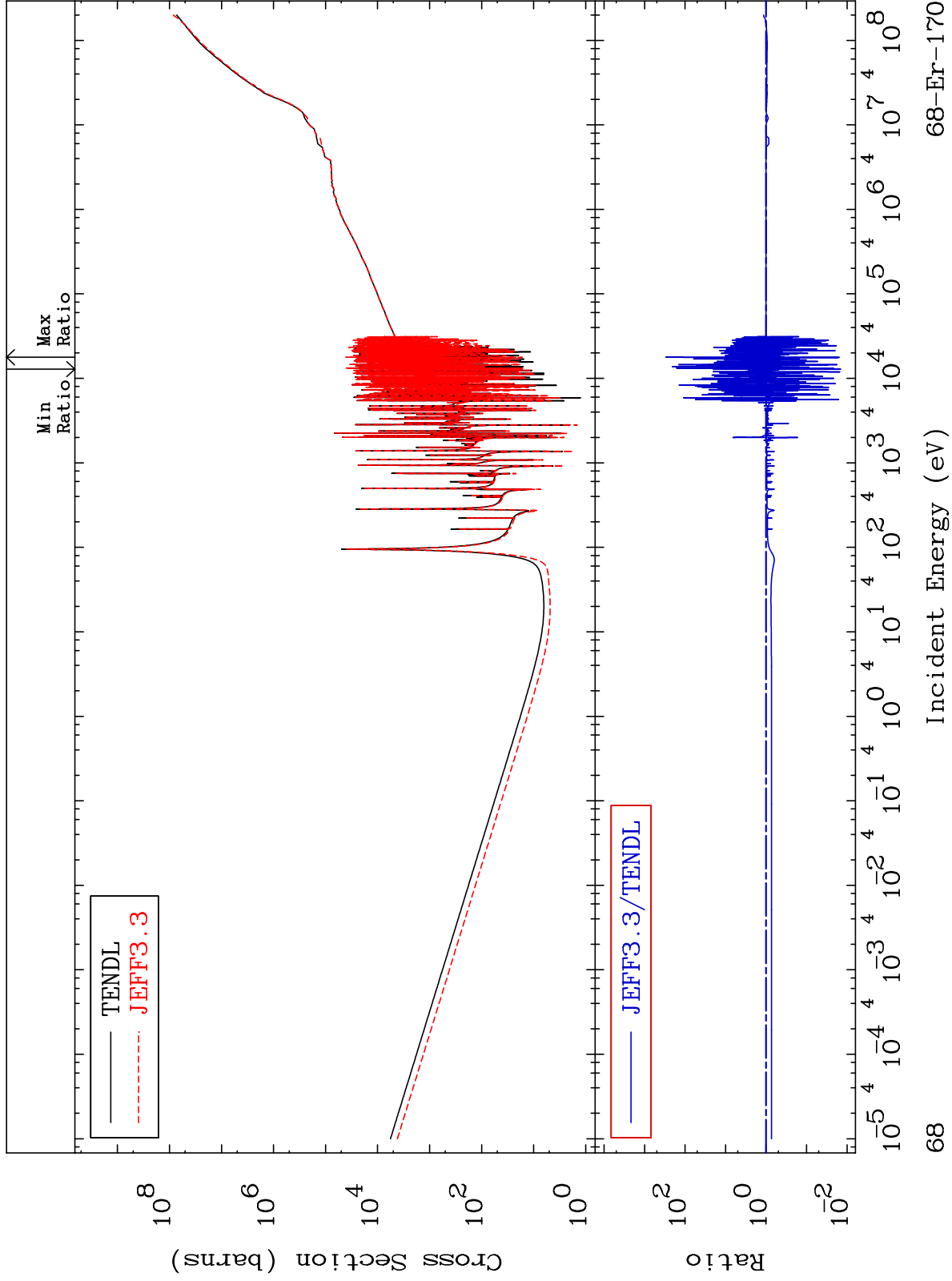
Incident Energy (eV)

68-Er-170

MAT 6849

Total kinematic kerma (high limit)  
Cross Section

68-Er-170  
-98.55 To 9999. %



68

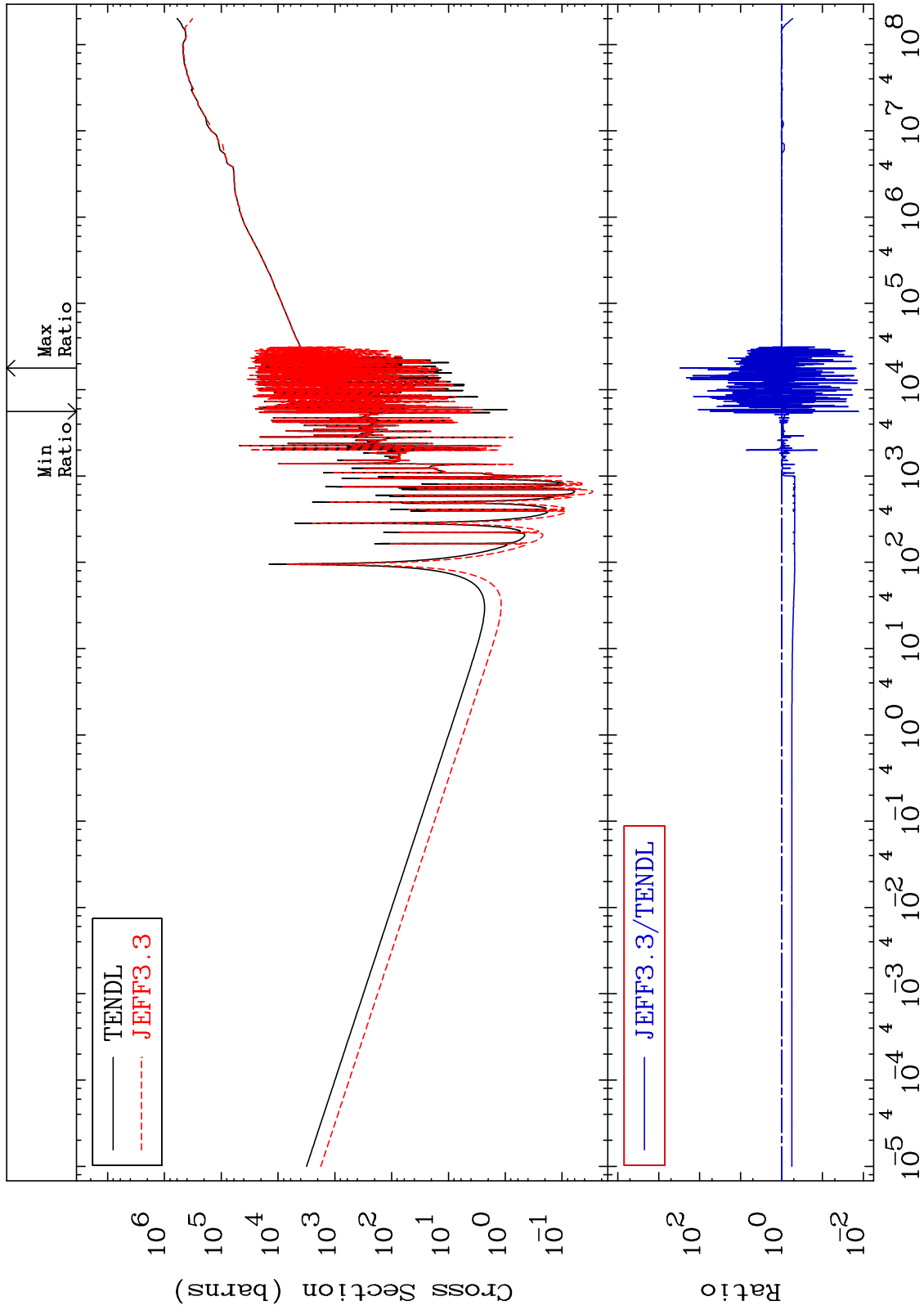
Incident Energy (eV)

68-Er-170

MAT 6849

Dpa total (eV-barns)  
Cross Section

68-Er-170  
-98.68 To 9999. %



69

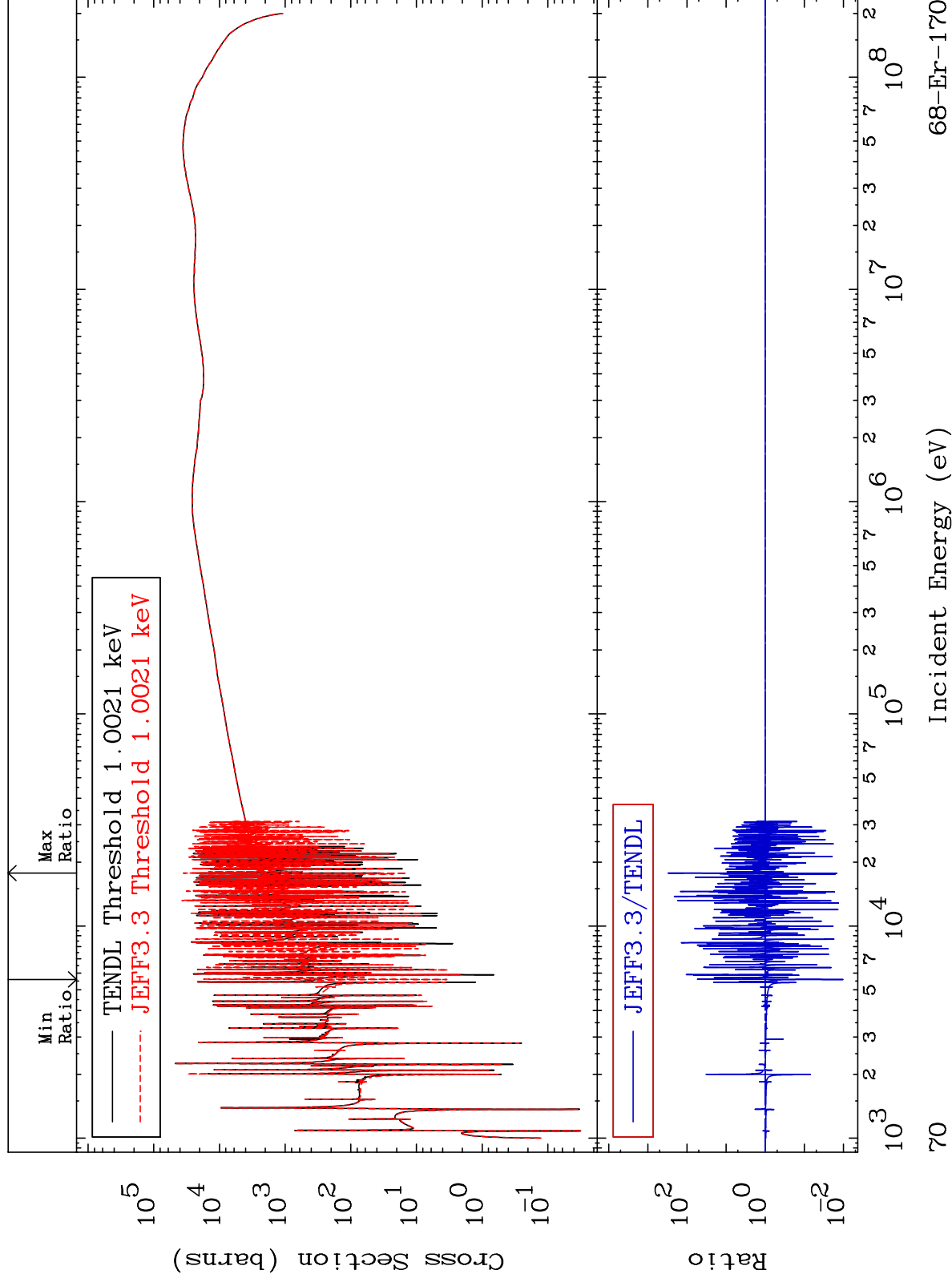
Incident Energy (eV)

68-Er-170

MAT 6849

Dpa elastic (mt2)  
Cross Section

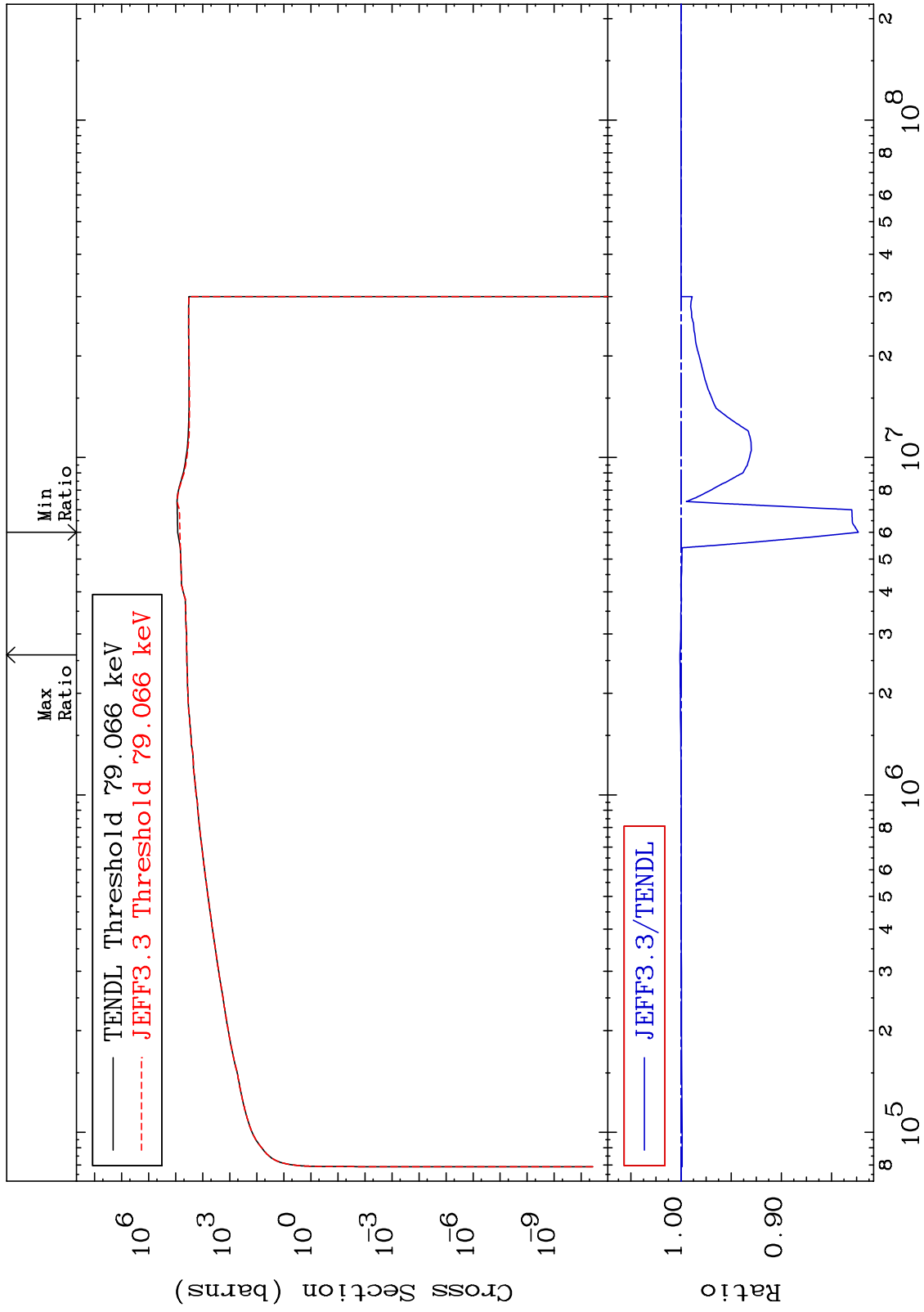
68-Er-170  
-98.96 To 9999. %



MAT 6849

Dpa inelastic (mt51-91)  
Cross Section

68-Er-170  
-17.69 To 0.101 %



71

Incident Energy (eV)

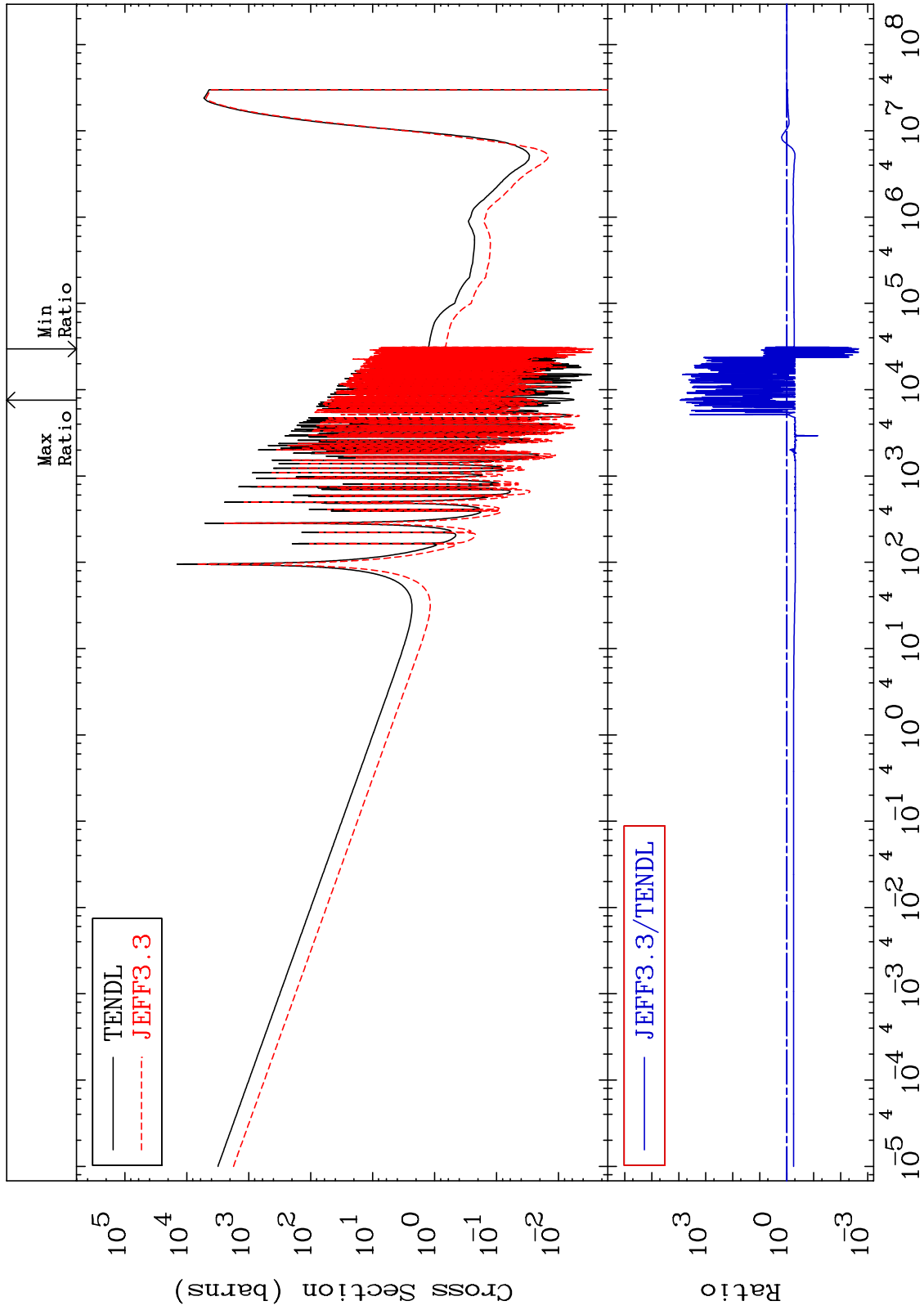
68-Er-170



MAT 6849

Dpa disappearance (mt102 -120)  
Cross Section

68-Er-170  
-99.78 To 9999. %



72

Incident Energy (eV)

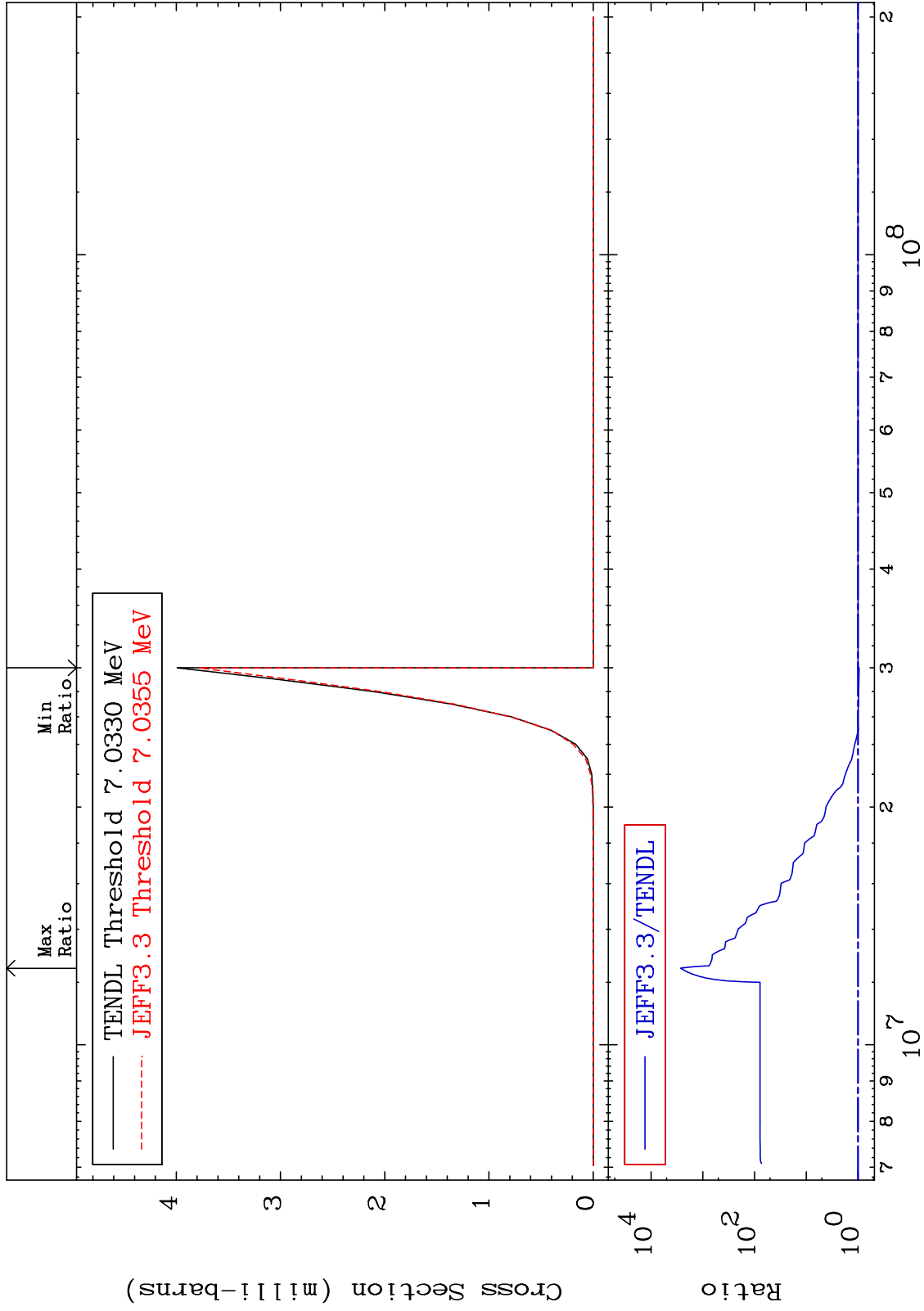
68-Er-170

MAT 6849

(n,2n)  $\alpha$ :66-Dy-165g

68-Er-170

Radionuclide Production Cross Section -5.179 To 9999. %



73

Incident Energy (eV)

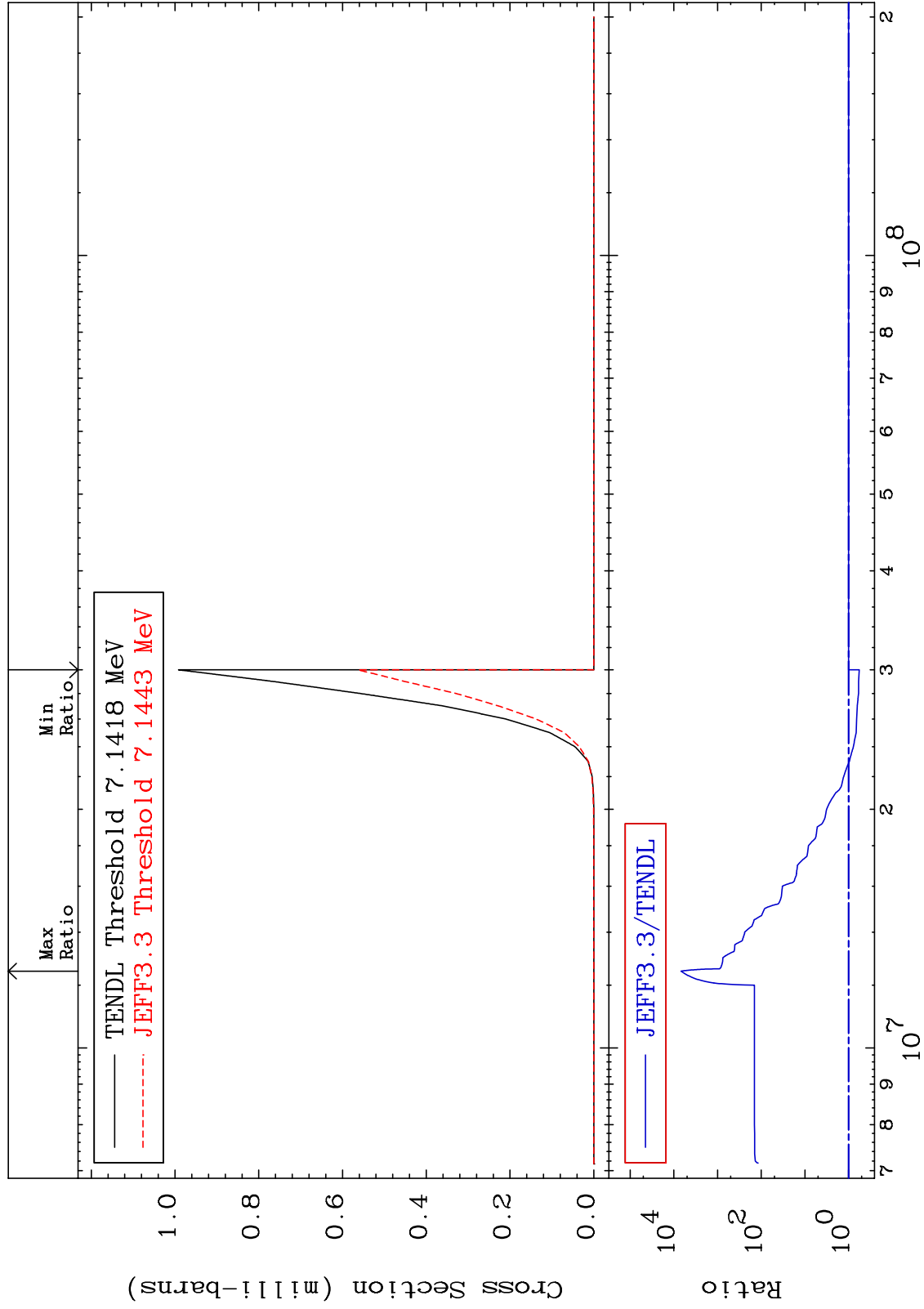
68-Er-170

MAT 6849

(n,2n)  $\alpha$ : 66-Dy-165m2

68-Er-170

Radionuclide Production Cross Section -43.21 To 9999. %



74

Incident Energy (eV)

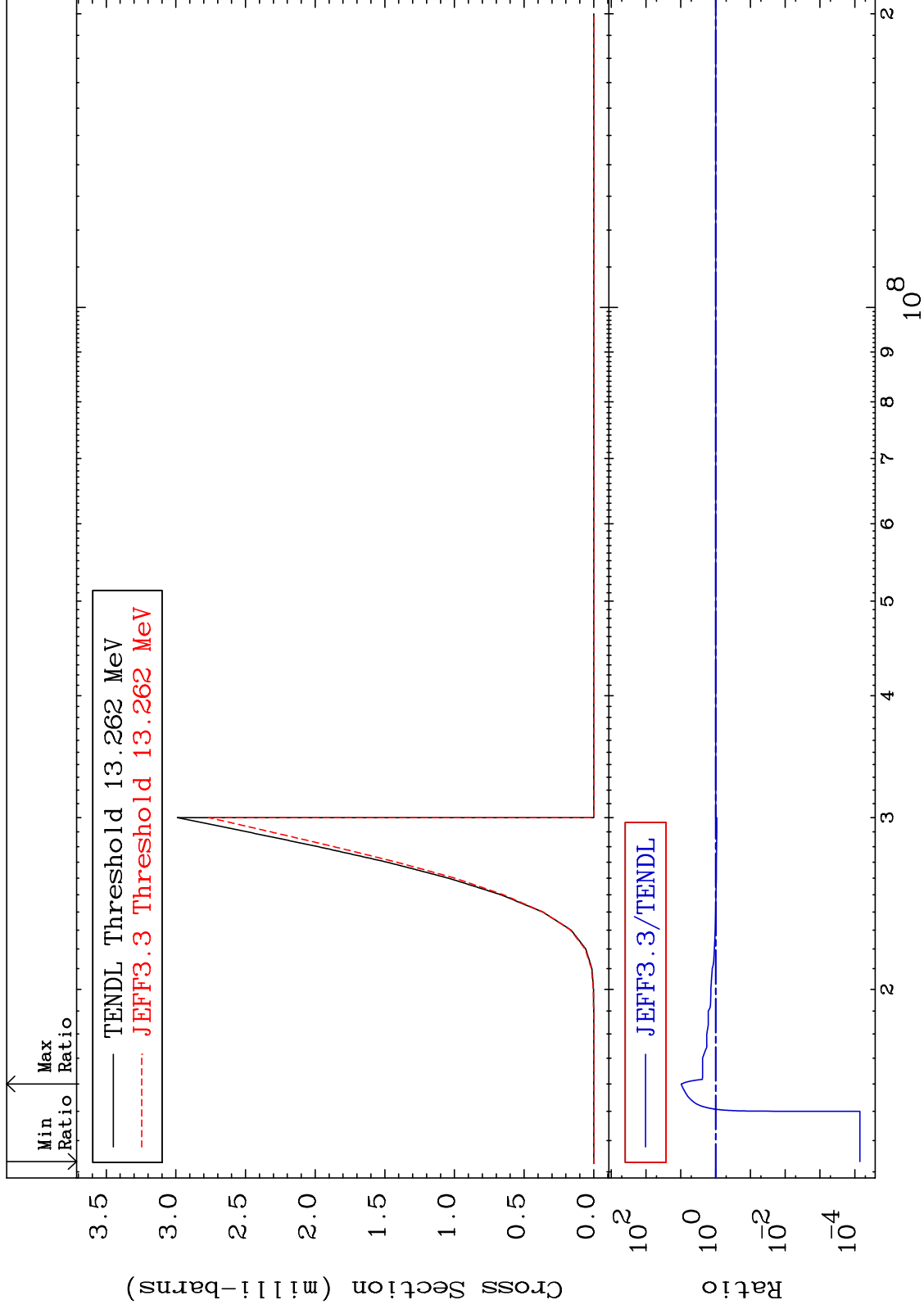
68-Er-170

MAT 6849

(n, n') d:67-Ho-168g

68-Er-170

Radionuclide Production Cross Section -99.99 To 872.7 %

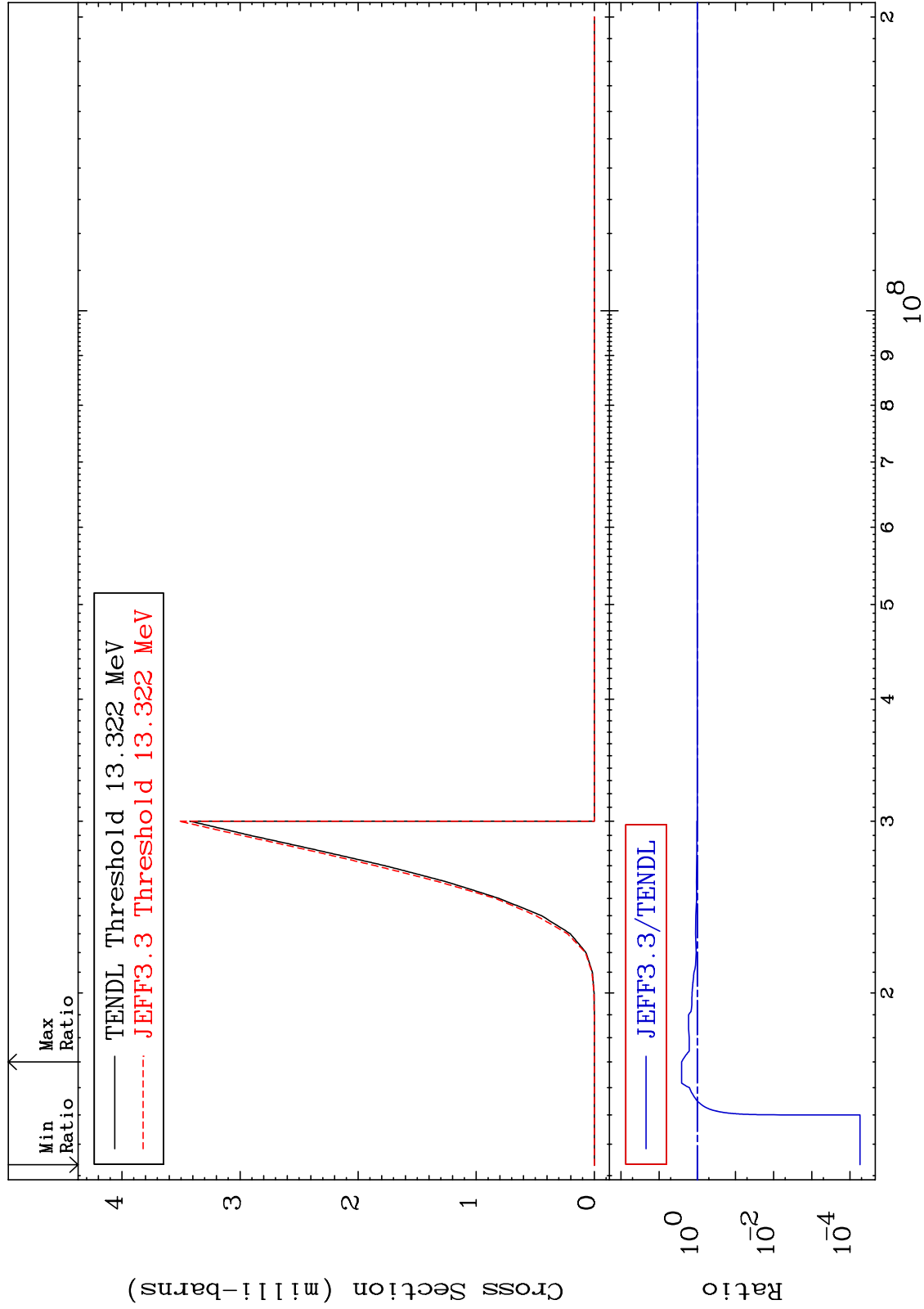


75

Incident Energy (eV)

68-Er-170

Radionuclide Production Cross Section -99.99 To 156.9 %

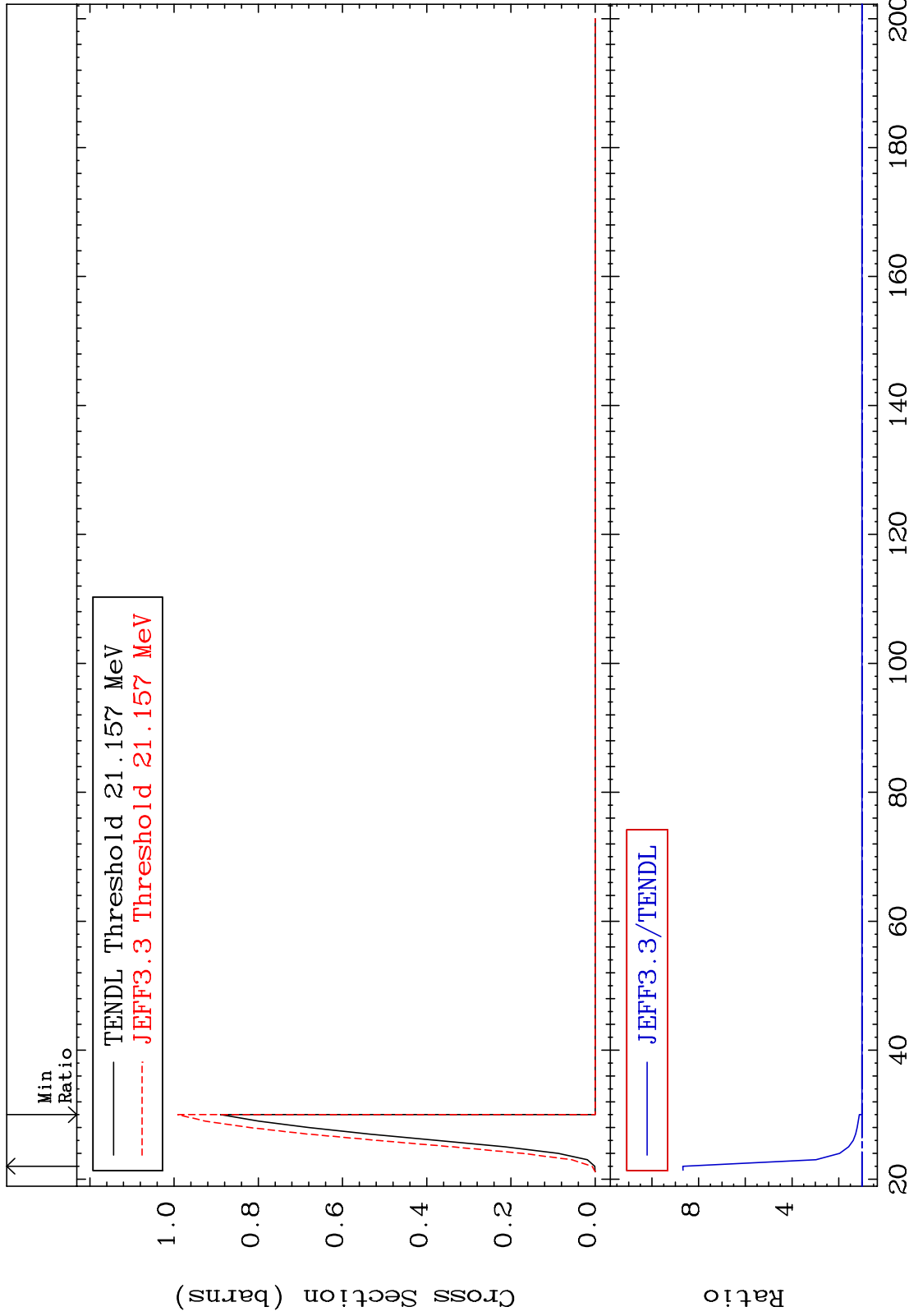


MAT 6849

(n,4n):68-Er-167g

68-Er-170

Radionuclide Production Cross Section 0.000 To 767.6 %

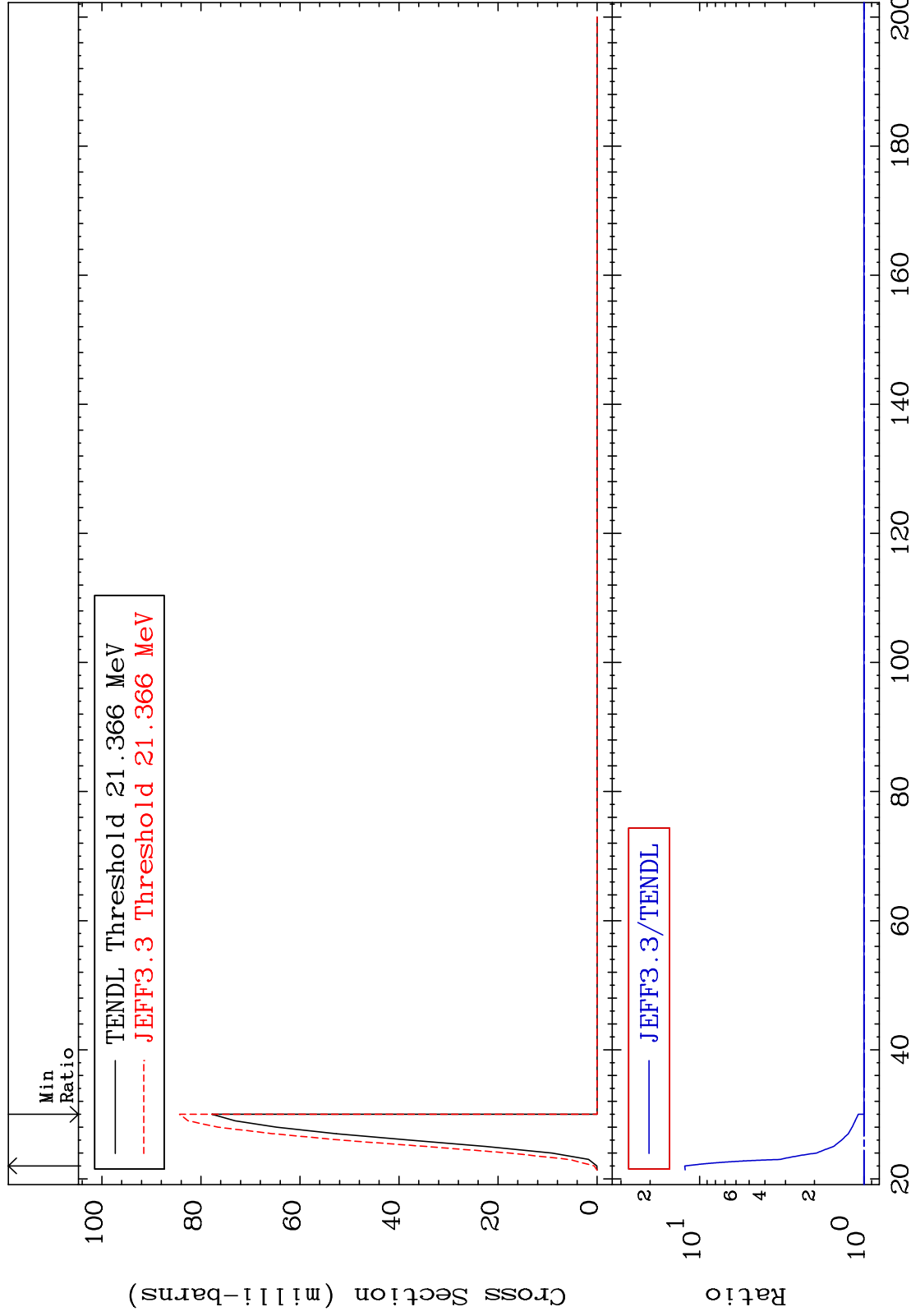


MAT 6849

(n, 4n): 68-Er-167m3

68-Er-170

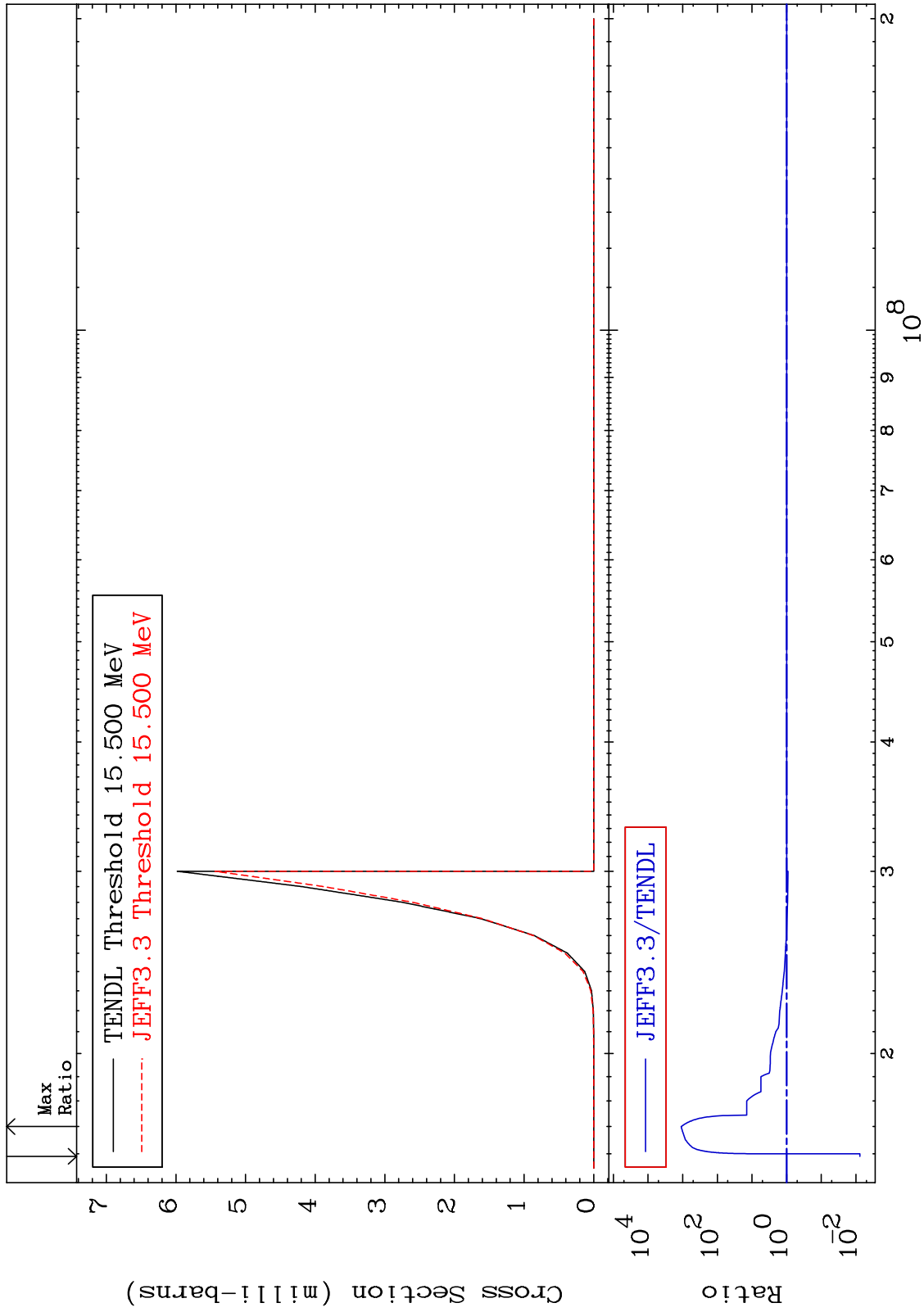
Radionuclide Production Cross Section 0.000 To 1129. %



78

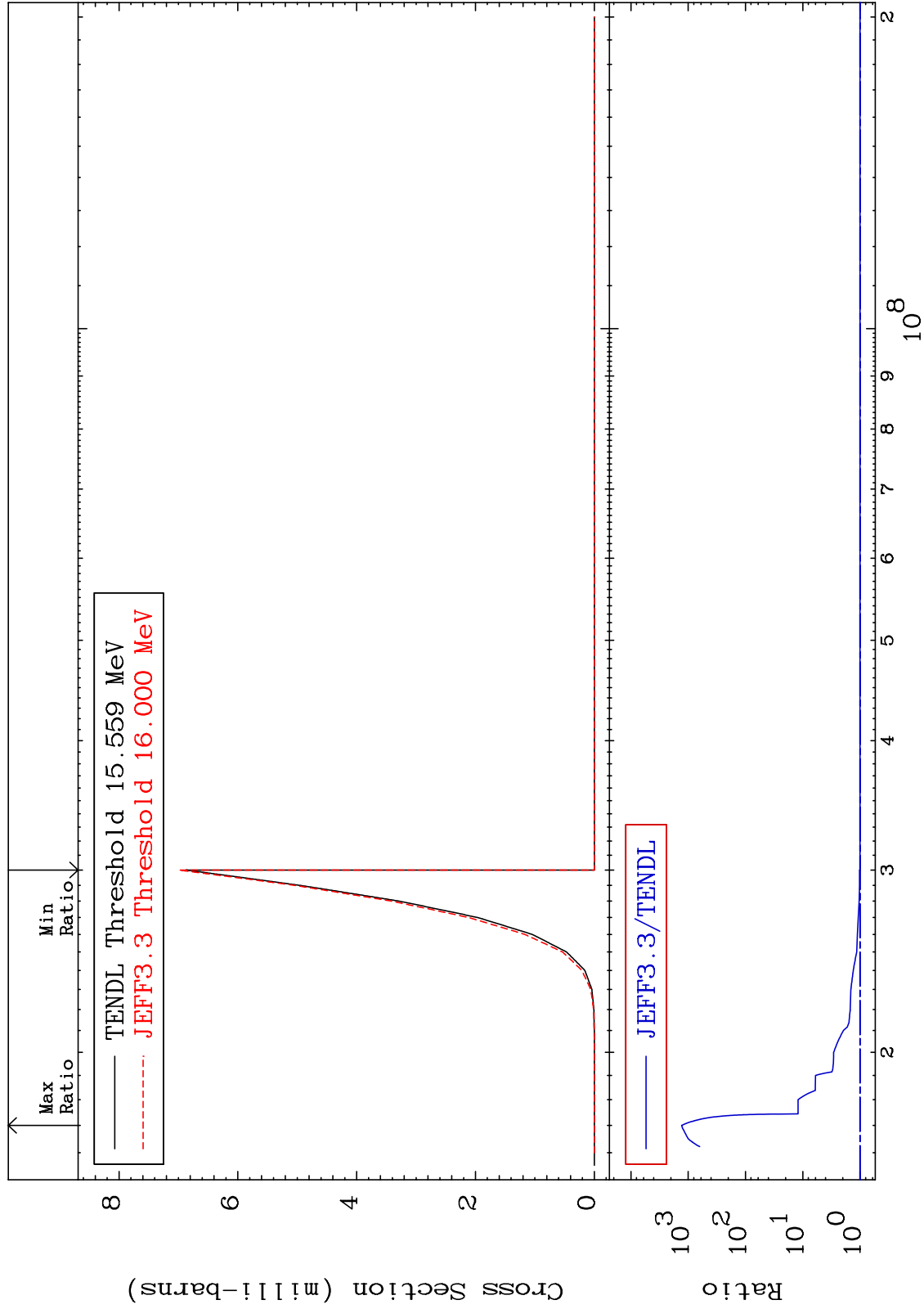
Incident Energy (MeV)

68-Er-170





Radionuclide Production Cross Section 0.000 To 9999. %

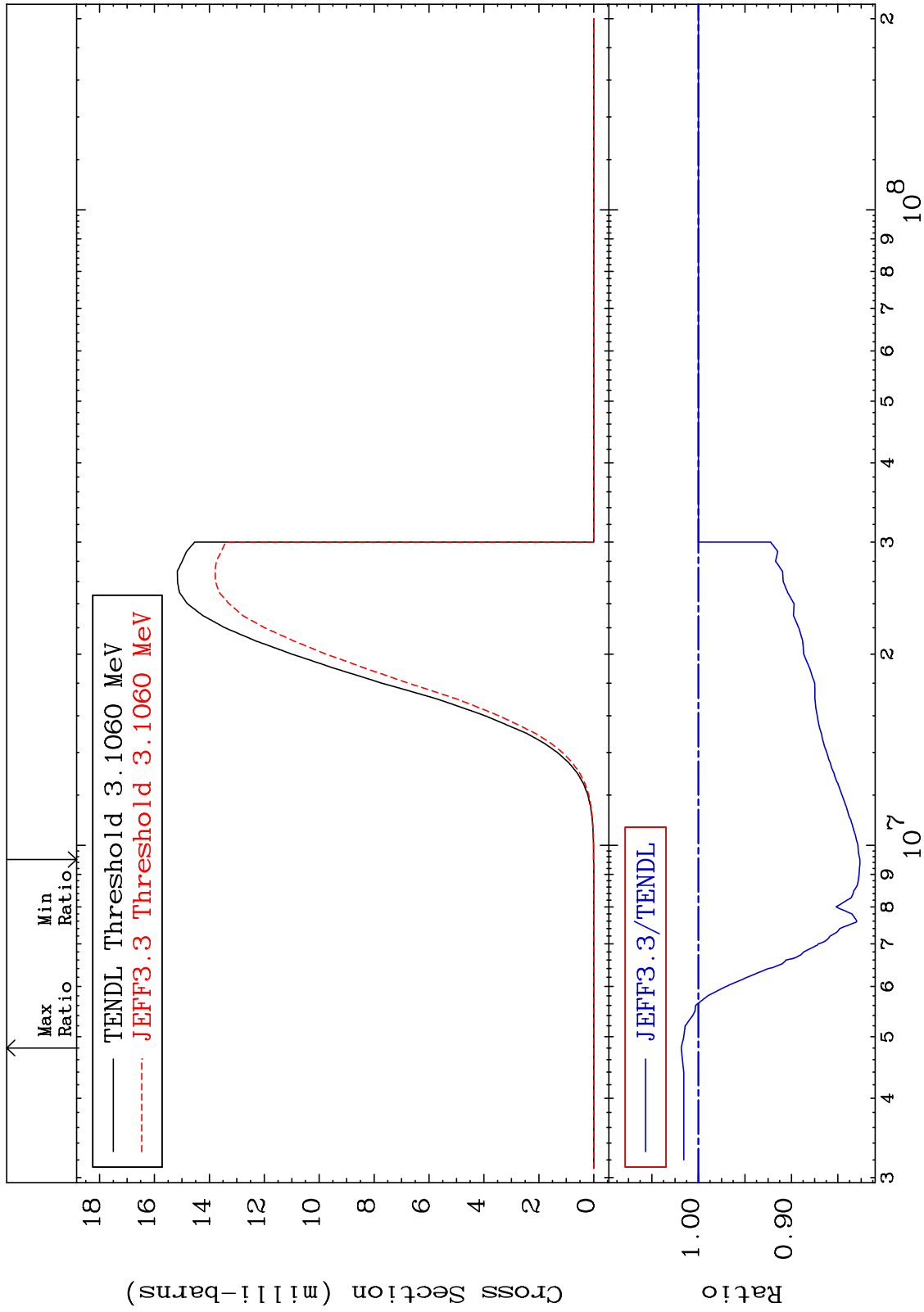


MAT 6849

(n, p) : 67-Ho-170g

68-Er-170

Radionuclide Production Cross Section -17.37 To 1.840 %



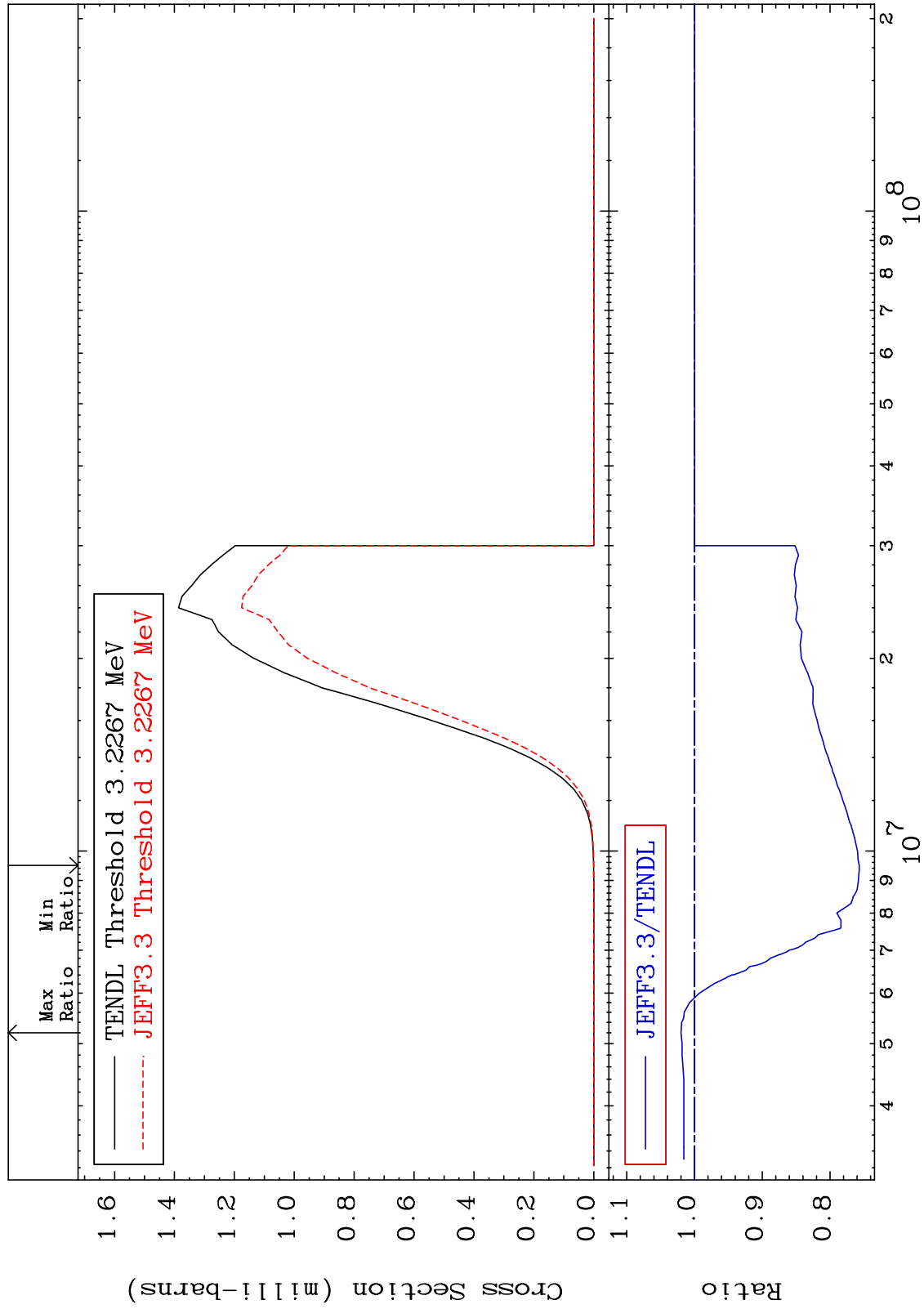
MAT 6849

(n, p) : 67-Ho-170m1

68-Er-170

Radionuclide Production Cross Section

-24.32 To 1.987 %



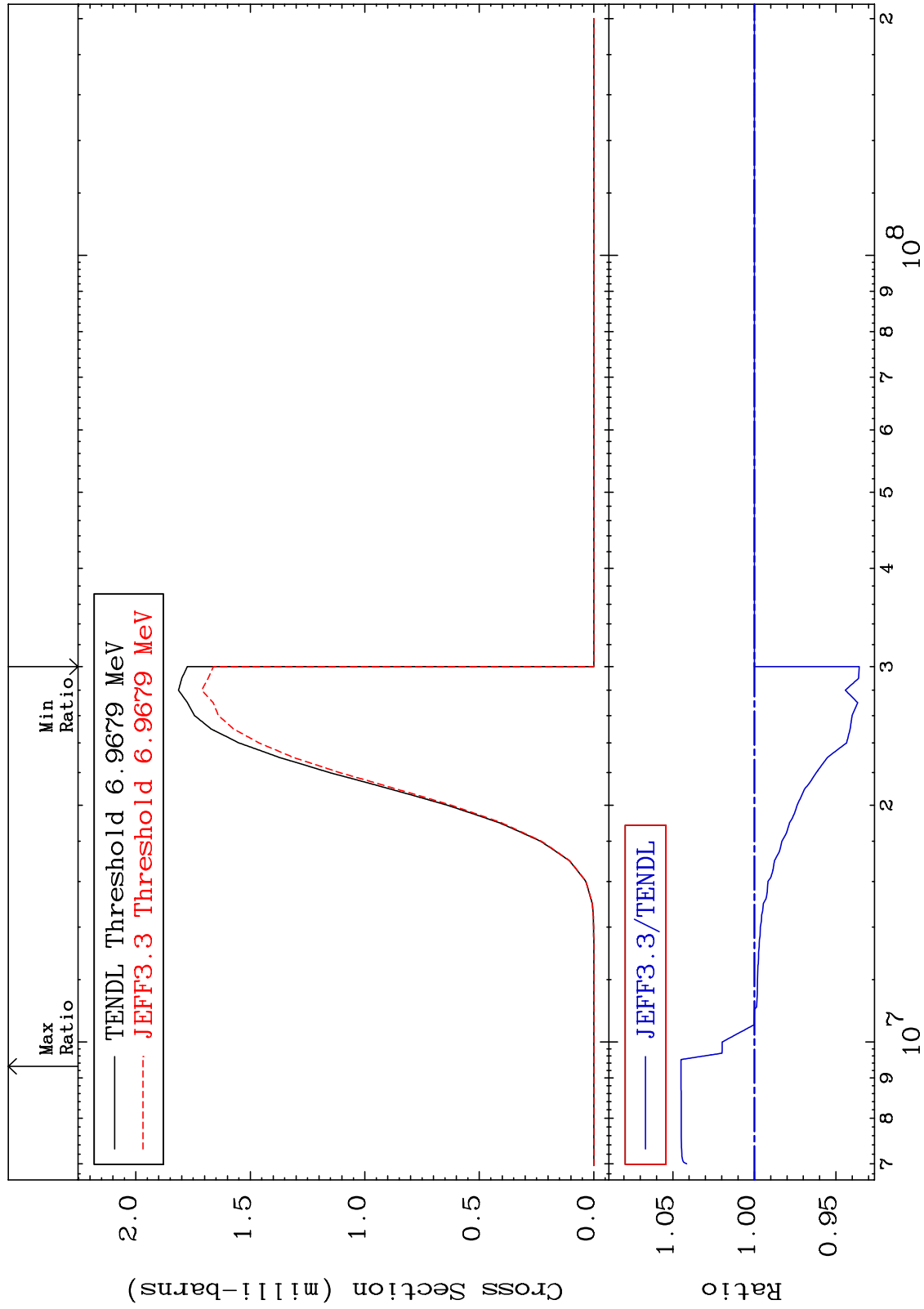
MAT 6849

(n, t): 67-Ho-168g

68-Er-170

Radionuclide Production Cross Section

-6.432 To 4.497 %



Radionuclide Production Cross Section -0.011 To 4.430 %

