Appendix
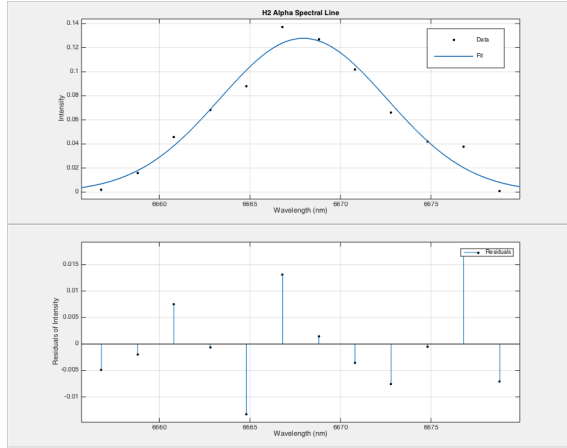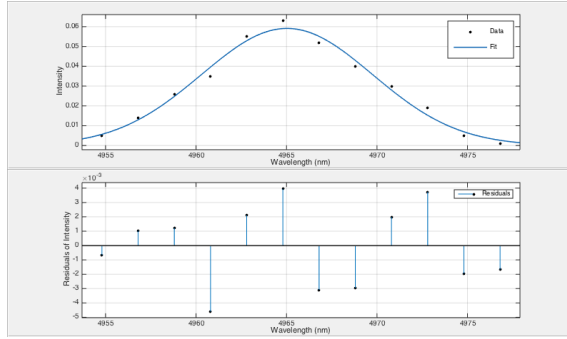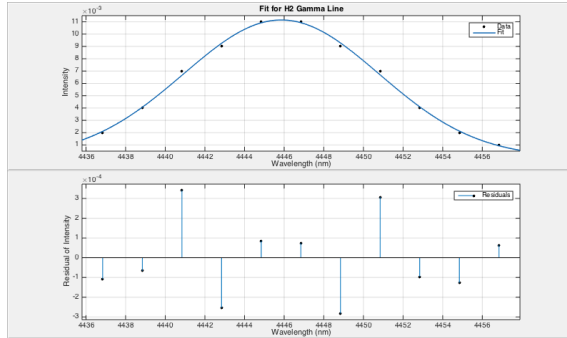

(a)Spectral Broadening in the Alpha Line. The fit is centered around 6668 (6667, 6669) with a standard deviation of 4.61599 (4.04889, 5.18309). The values in parentheses are the 95% confidence intervals.

(b)Spectral Broadening in the Beta Line. The fit is centered around 4965 (4965, 4965) with a standard deviation of 4.72347 (4.3282, 5.11875).

(c)Spectral Broadening in the Gamma Line. The fit is centered around 4446 (4446, 4446) with a standard deviation of 4.93773 (4.77156, 5.1039).

FIG. 1: Spectral Broadening exhibited in Hydrogen Balmer Series lines.