

## Spectral Fitting

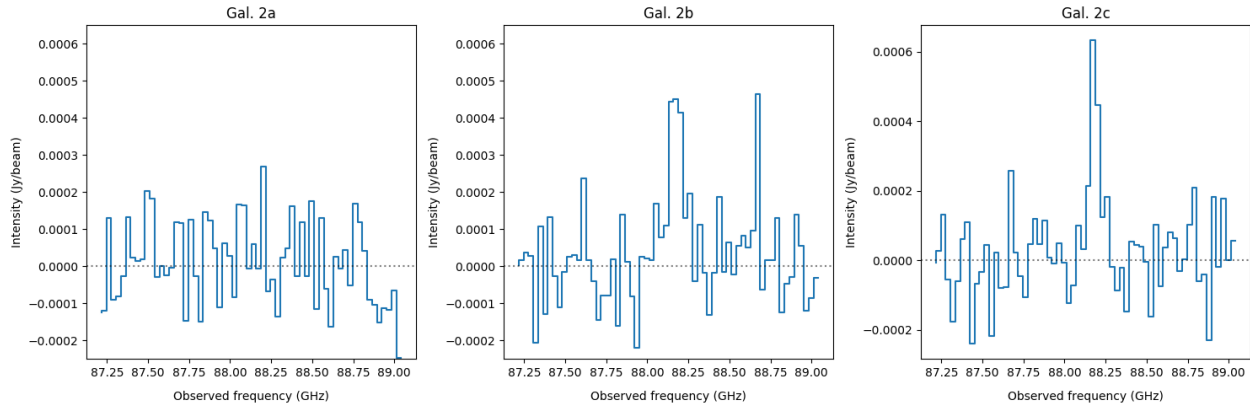


Figure 1: Plot of the extracted spectra of the multiple images of Galaxy 2.

Gal ID	Peak Frequency GHz	Line Width FWHM	RMSE	Redshift
2a	87.96	0.858	1.11E-04	2.93
2b	88.19	0.111	1.13E-04	2.92
2c	88.20	0.064	1.06E-04	2.92

Table 1: Table to test captions and labels

## Problem 2: Hot Jupiters and tidal disruption

- (a)
- (b)
- (c)
- (d)

## Problem 3:

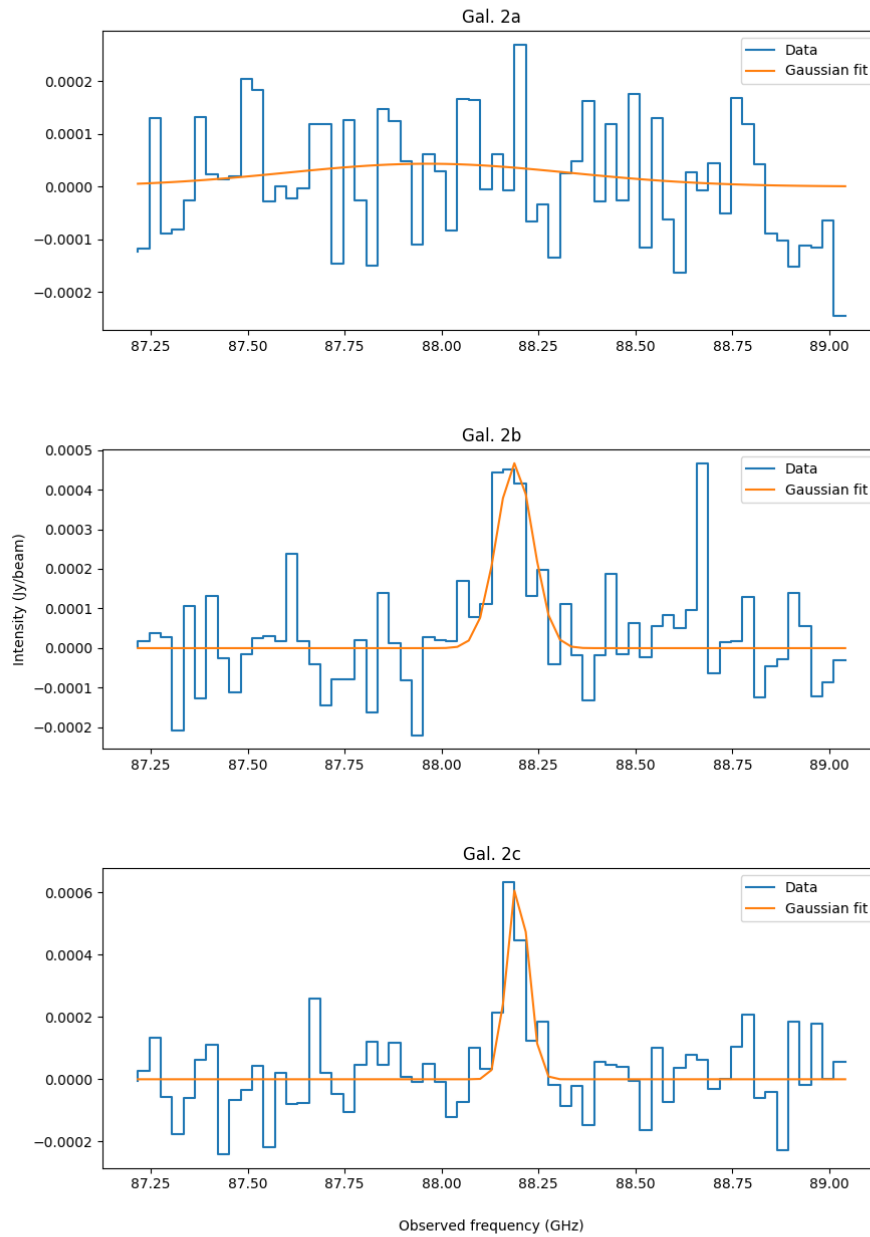


Figure 2: Plot of the spectra with a 1D Gaussian fit.

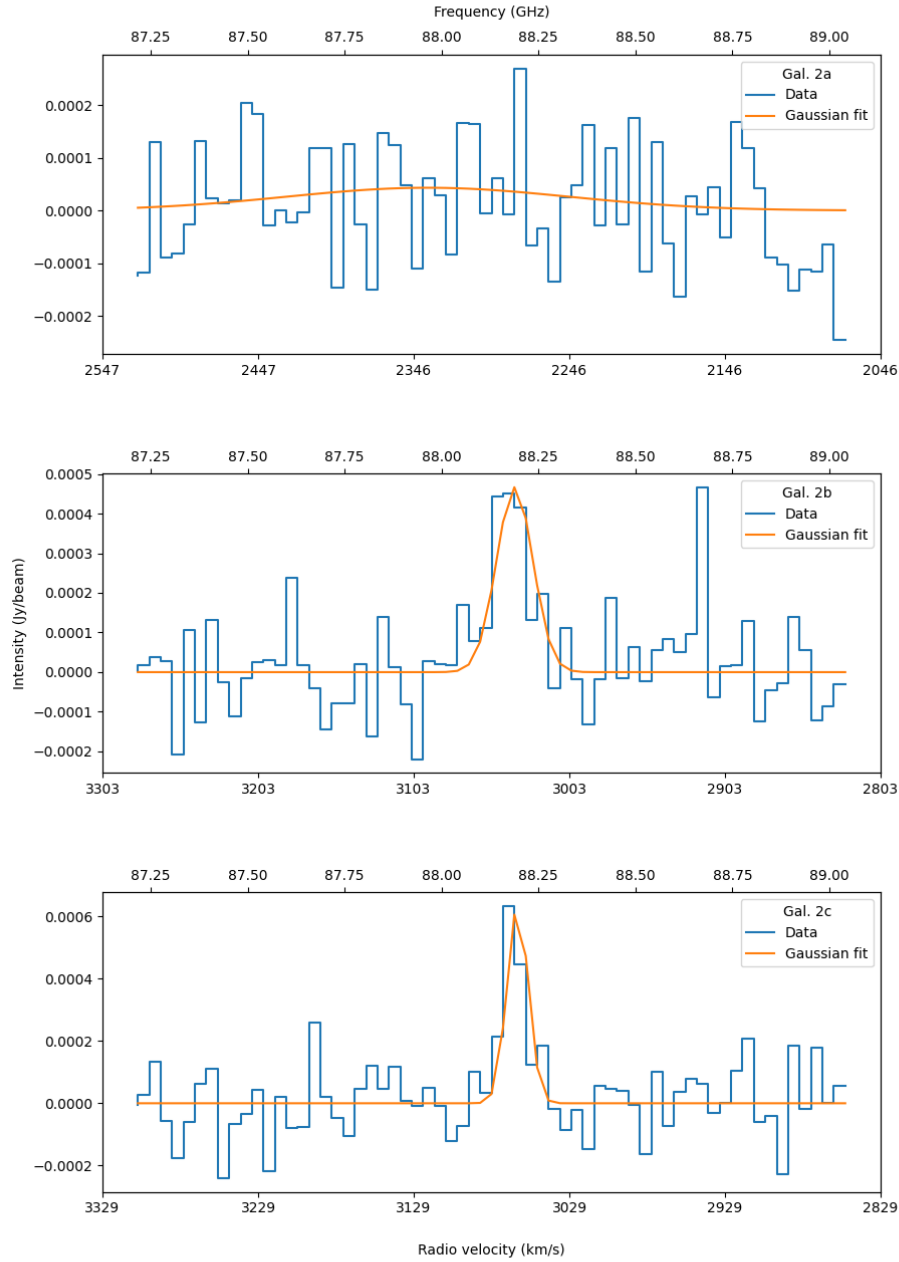


Figure 3: Plot of the spectra with a 1D Gaussian fit. Bottom x-axis is in radio velocity (km/s) with reference to the redshift to each image. Top x-axis is in observed frequency (GHz).