

Astrostatistics

Fri, 24 January 2020

- Probability & Statistics Foundations:
 - Probability: F&B Ch 2, Ivezic Ch 3
 - Ivezic Ch 4 “Classical Statistical Inference” & Ch 5 “Bayesian Statistical Inference”
 - F&B Ch 3 “Statistical Inference”

Shortcomings of Propagation of Error

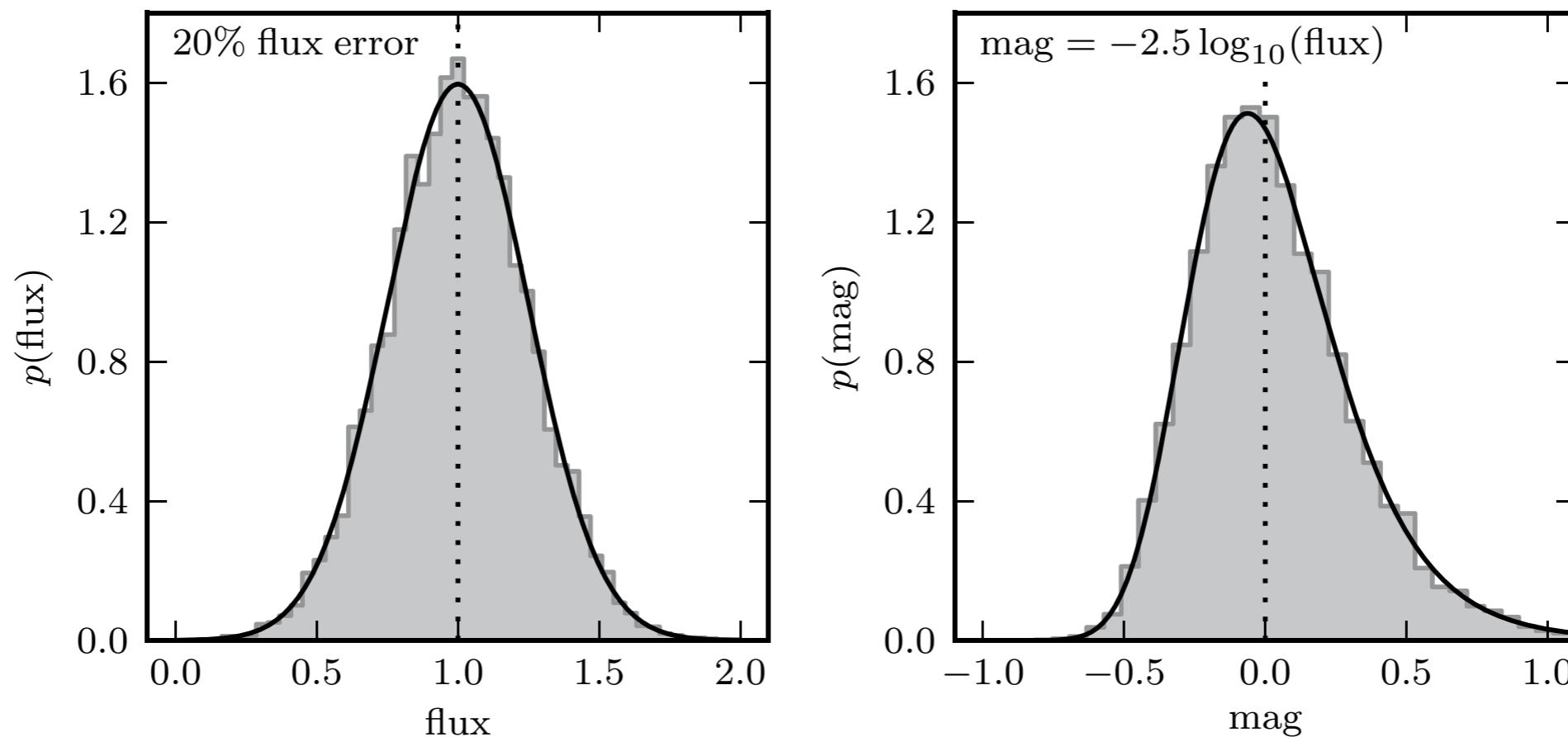
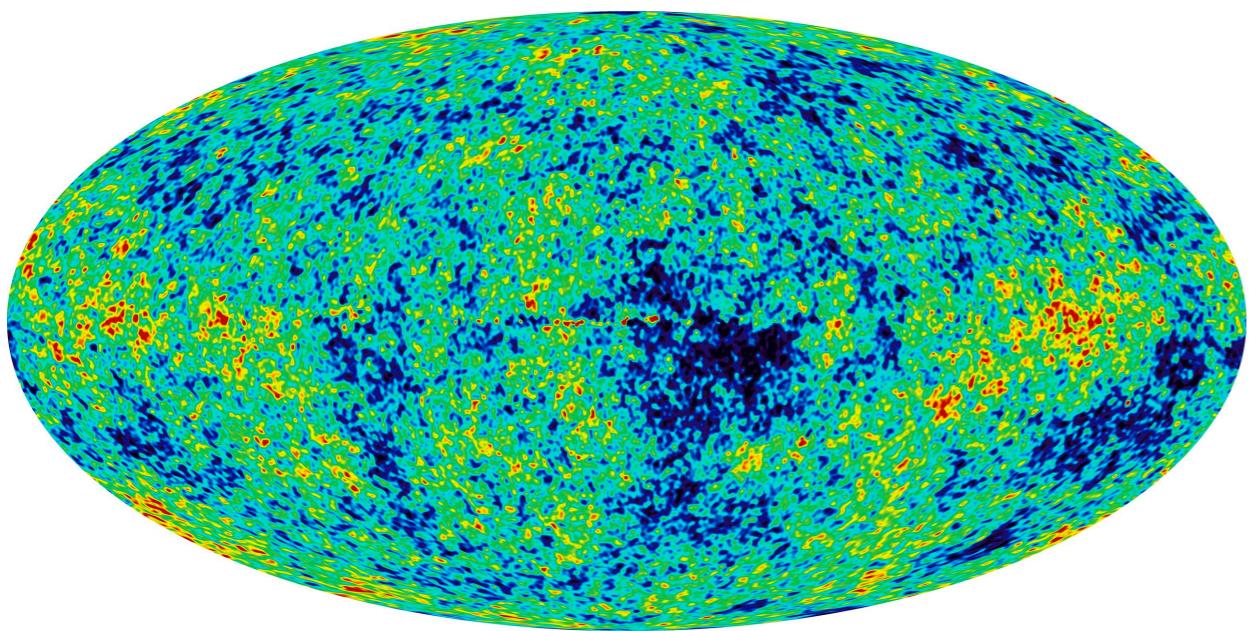
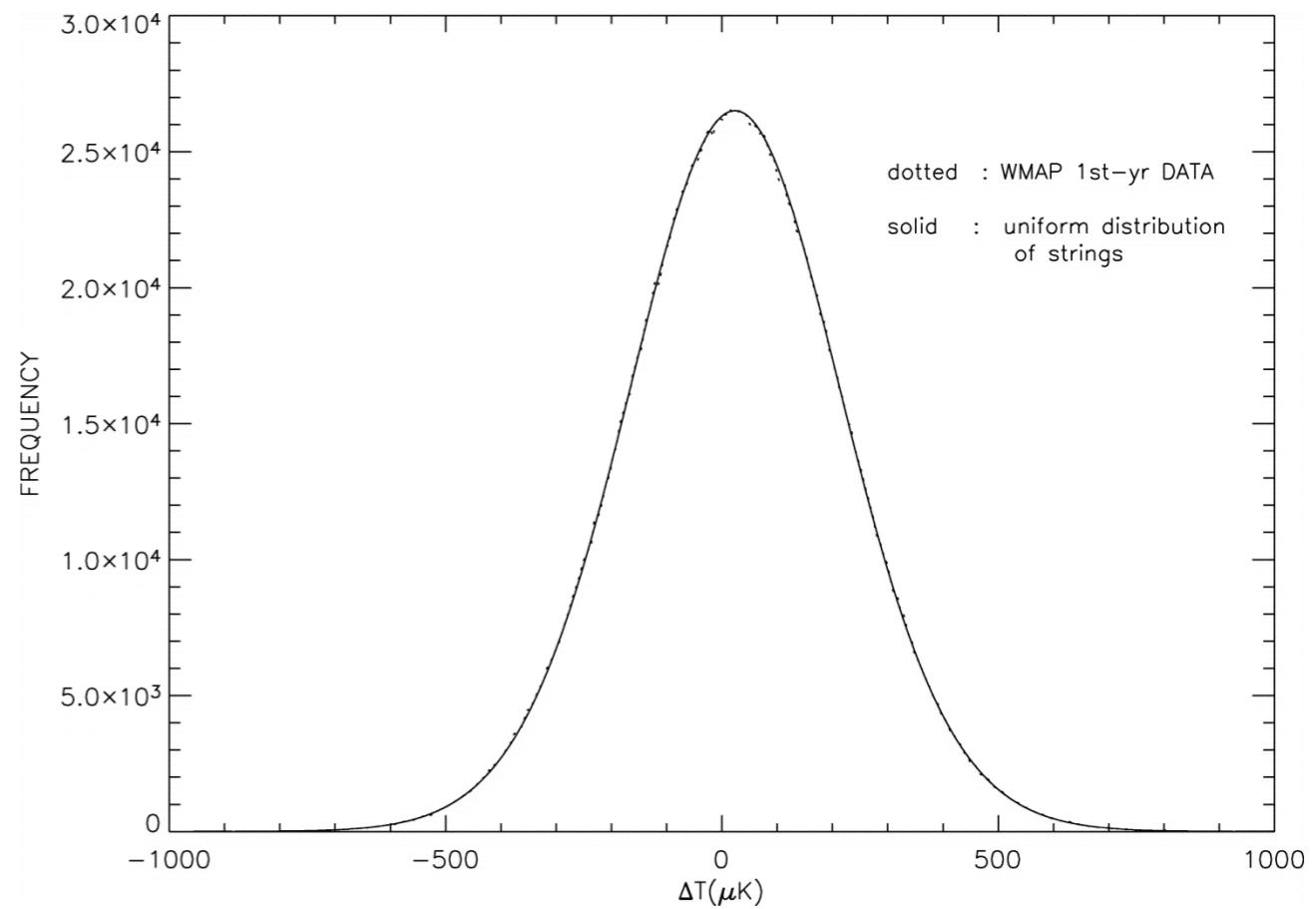


Figure 3.5. An example of Gaussian flux errors becoming non-Gaussian magnitude errors. The dotted line shows the location of the mean flux; note that this is not coincident with the peak of the magnitude distribution.

Cosmic Microwave Background



WMAP of the sky



Gaussian distribution of temperatures at each pixel