

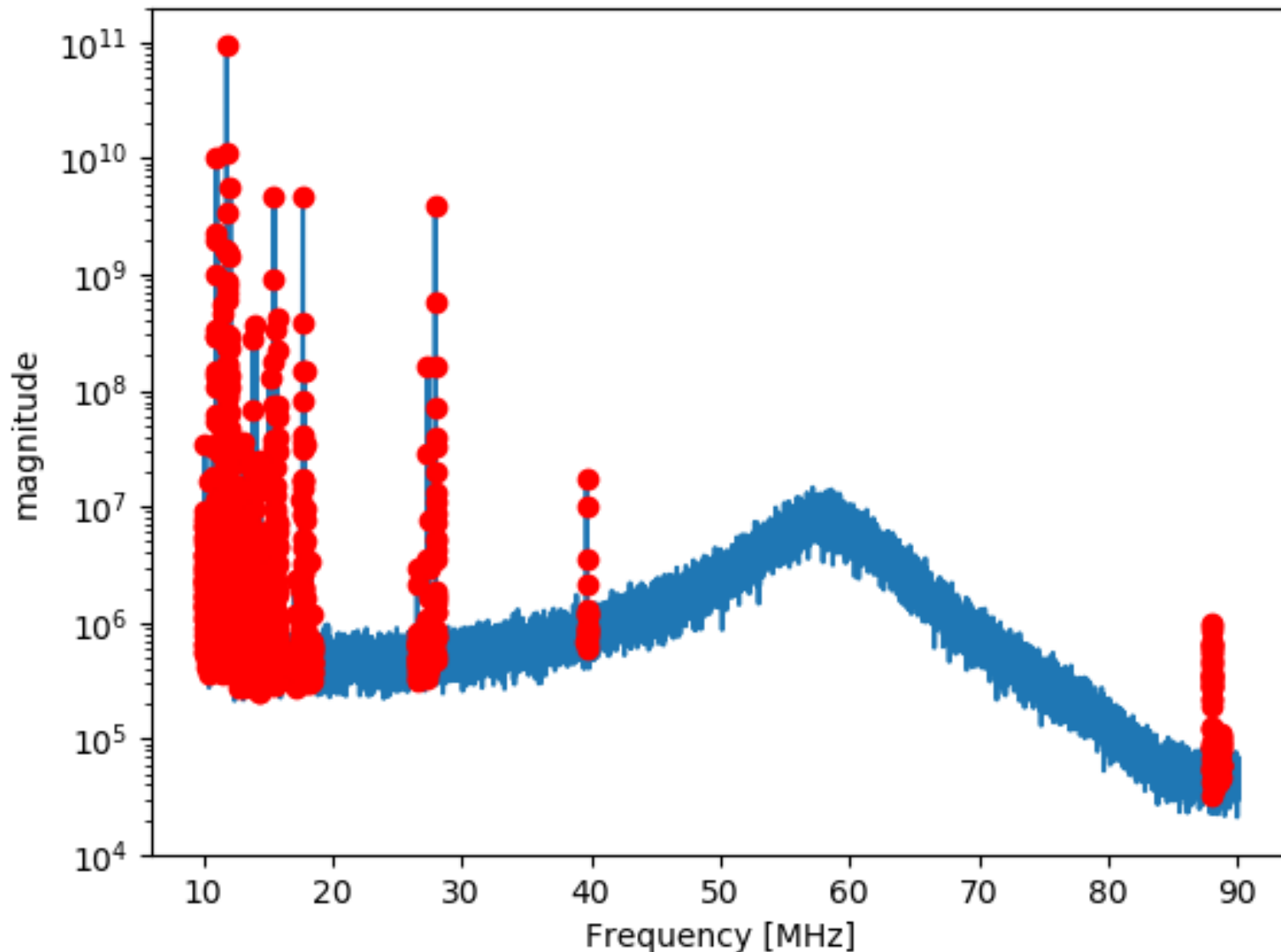
Removing RFI lines

- Data are often polluted by human RFI
- We identify RFI by looking at phase stability
 - Technique borrowed from Cosmic Ray group
- Also bandpass between 30-80 MHz due to large amount of RFI below 30 and above 80

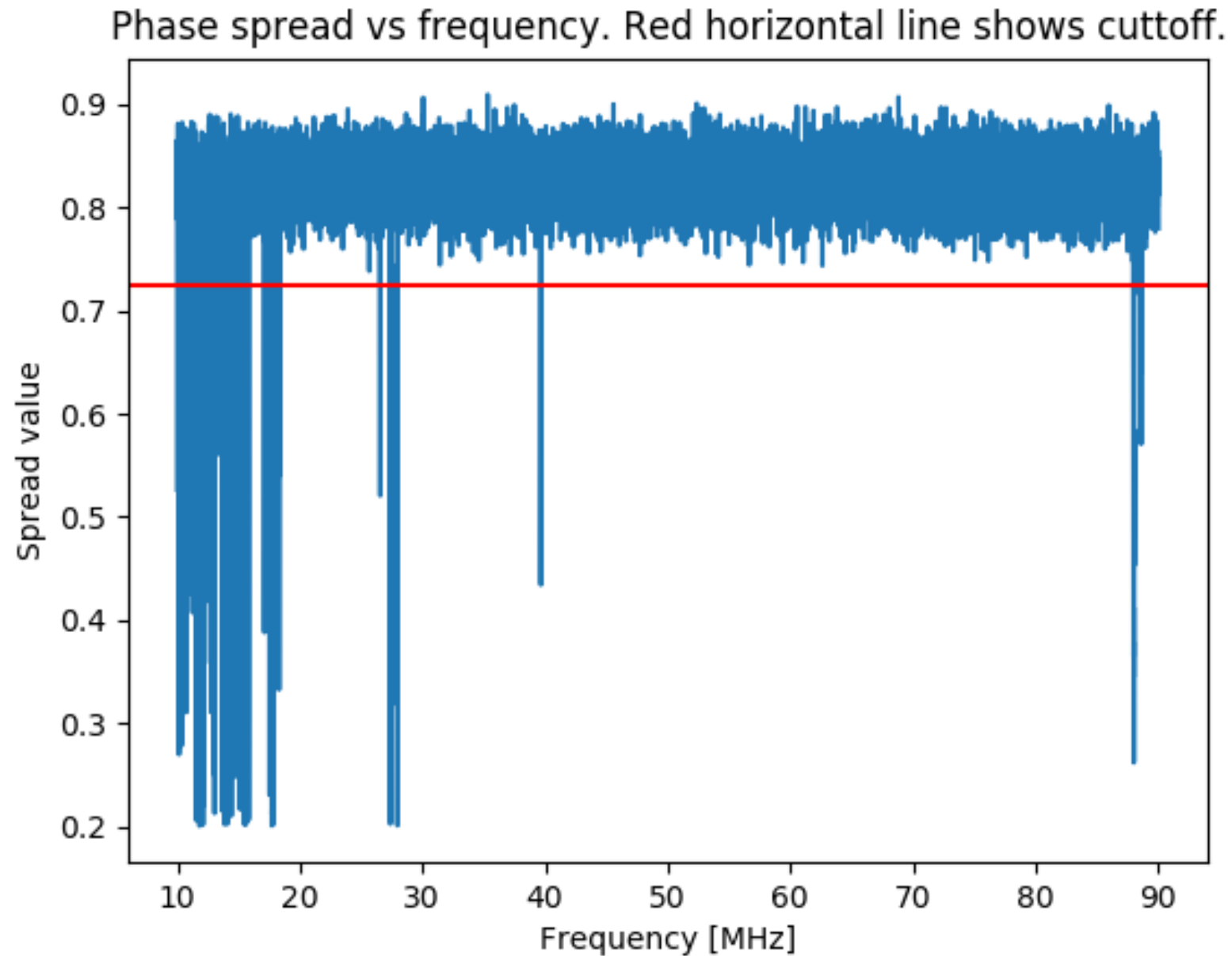
FFT spectrum before cleaning

RFI lines indicated in red

Rest of the spectrum is due to the galactic background and antenna function



Phase Stability



Task 3

Goal: Remove RFI from a block of data, and observe the result

- 1) Plot a spectrum before RFI cleaning
 - Plot logarithm of absolute value of FFT
- 2) Use a noise block to find RFI lines and build filter
- 3) Remove RFI lines from a block of lightning data and plot FFT