




Reintroduction

A decorative graphic on the left side of the slide consists of two overlapping parallelograms. The front one is blue and the back one is a light green. They are positioned diagonally, with the blue one partially covering the green one.

A search for periodic sources in Antares data



Motivation

Link & Burgio , 2005

Neutron stars of age $< 10^5$ y

50 TeV muon neutrinos coincident with radio waves

Would give insight into energetics of the Neutron star magnetosphere



Low energy Fourier analysis

~1 MeV

Not event by event basis, few hits necessary

Apply Fourier analysis on hits / time Histogram

- <http://www.fftw.org/>

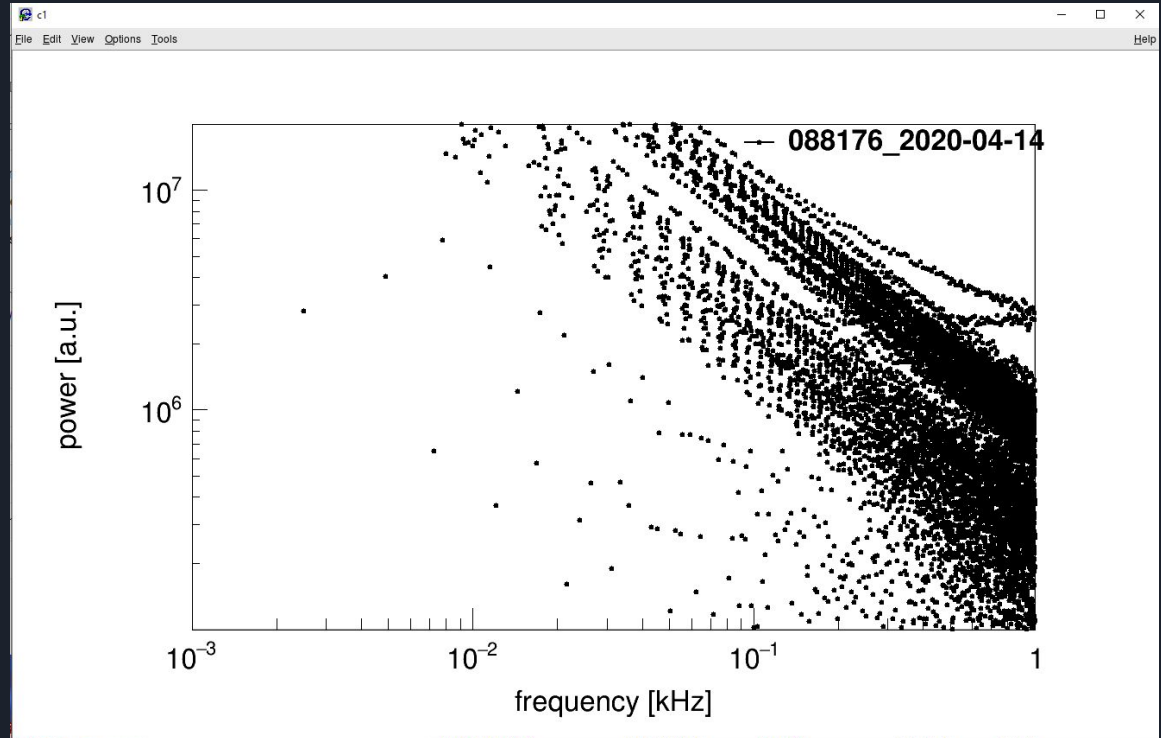
Raw data

Method & Problems

Fourier analysis

Eliminating noise

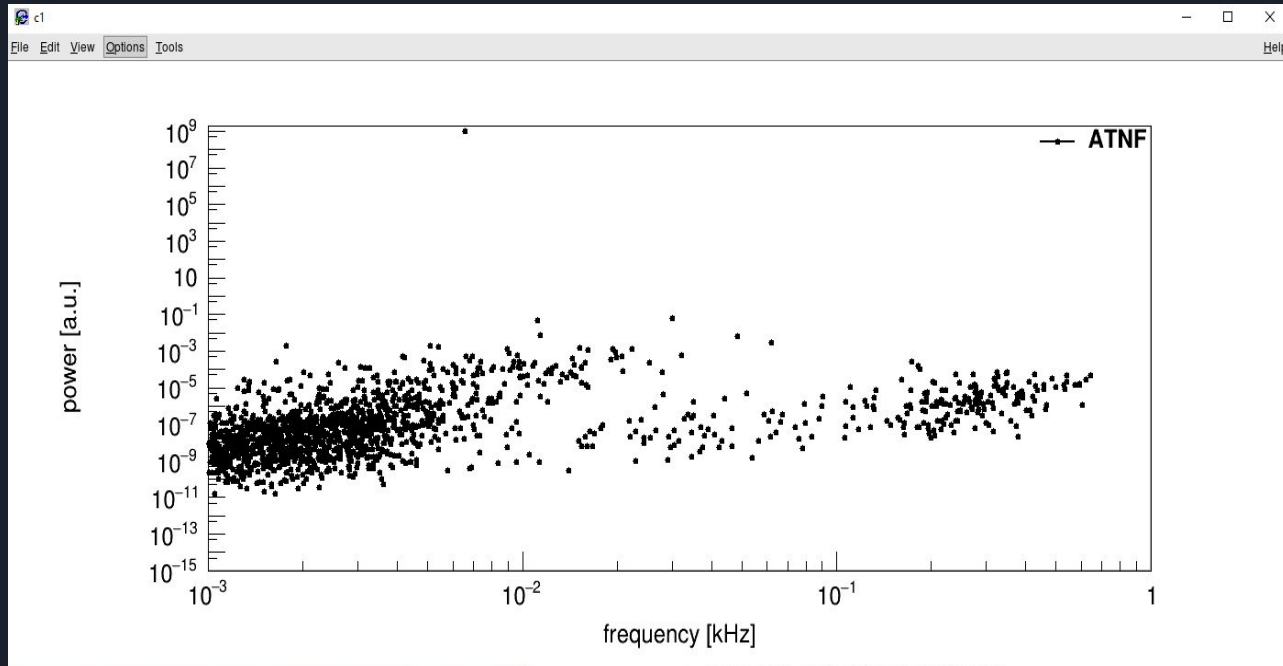
Improving Analysis



ATNF

Comparing with ATNF data

Outliers





Thank you