INTER IIT TECH MEET ANALYSIS REPORT MID PREP PROBLEM STATEMENT 2 ISRO VISUALIZATION TOOL TEAM 14

We conducted the detailed analysis for two objects:

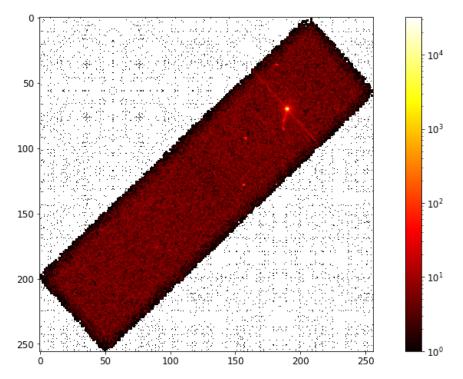
- 1. The Quasar 4C19.44
- 2. The Pulsar SMC X-1

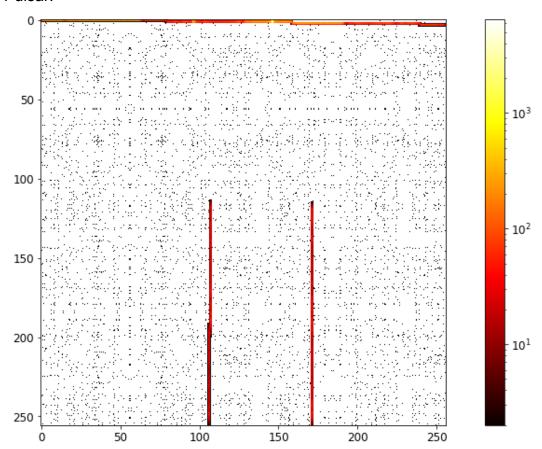
These were done by taking the following 2 observation files from the Chandra X-ray Catalog 2 (CXC 2) archives:

- 1. For the Quasar: acisf07302N003 evt2.fits (Corresponding Observation ID 7302)
- 2. For the Pulsar: acisf01023N004 evt2.fits (Corresponding Observation ID 1023)

The results of the analysis are as follows:

- 1. Plotted Image:
 - a. Quasar:

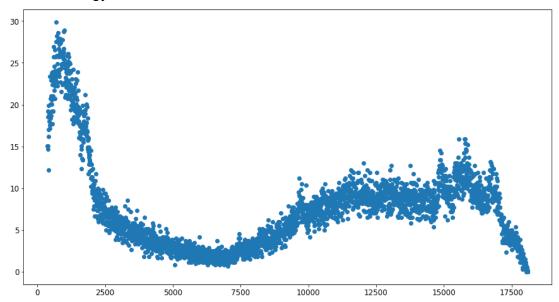




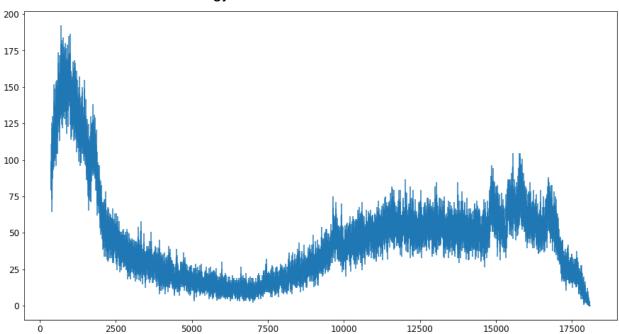
2. Obtained Spectrum:

a. Quasar:

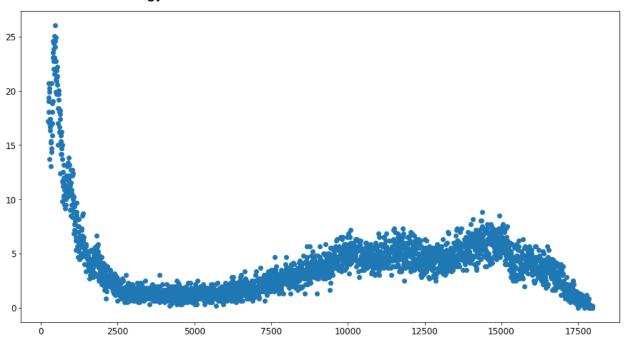
i. Flux vs Energy:



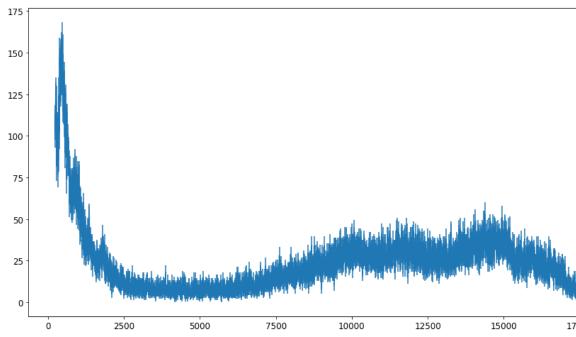
ii. Error in FLux vs Energy:



i. Flux vs Energy:

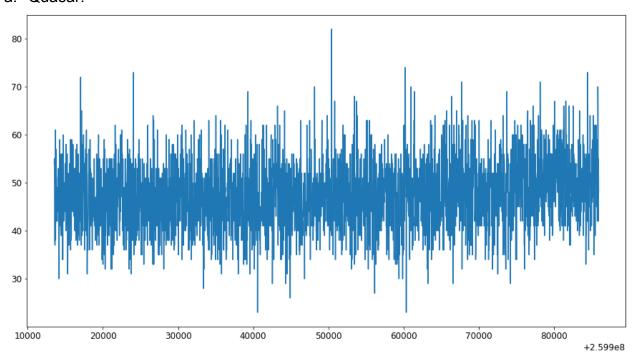


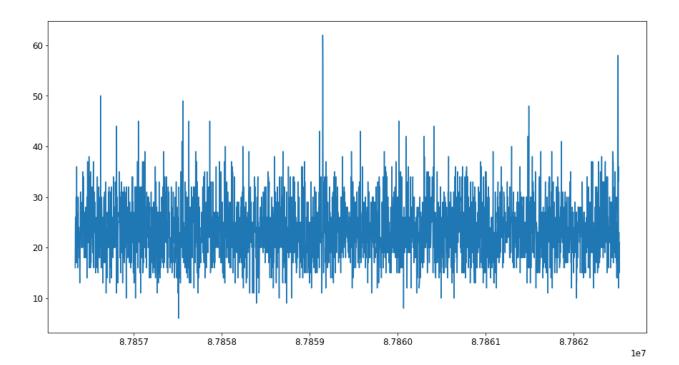
ii. Error in FLux vs Energy:



3. Light Curve:

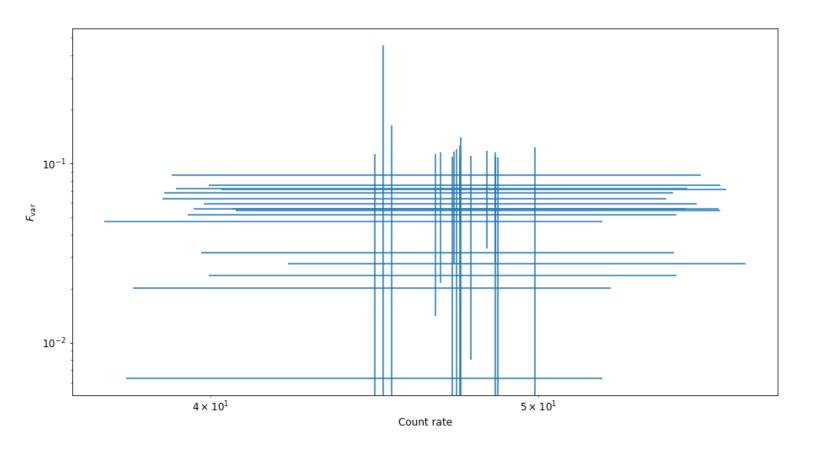
a. Quasar:

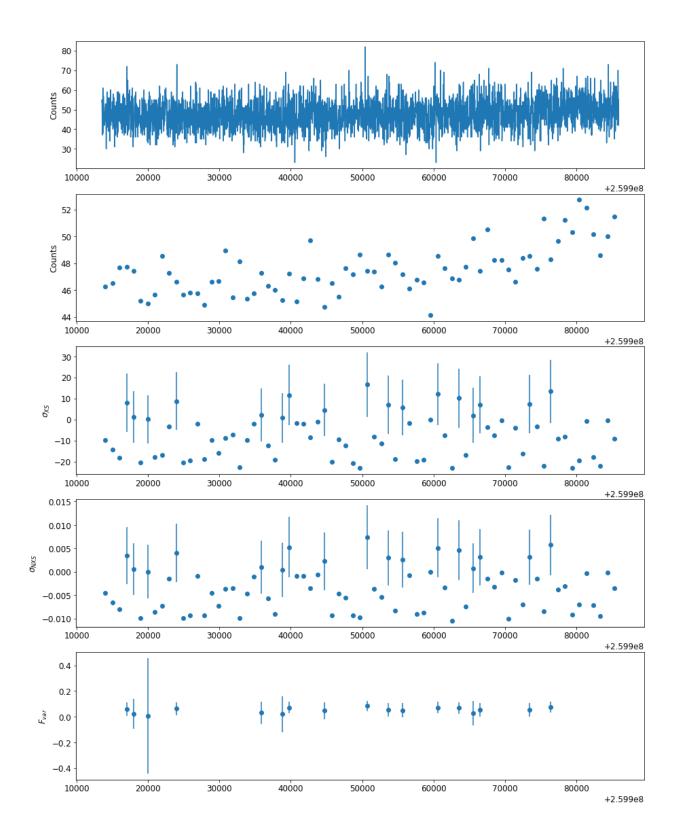


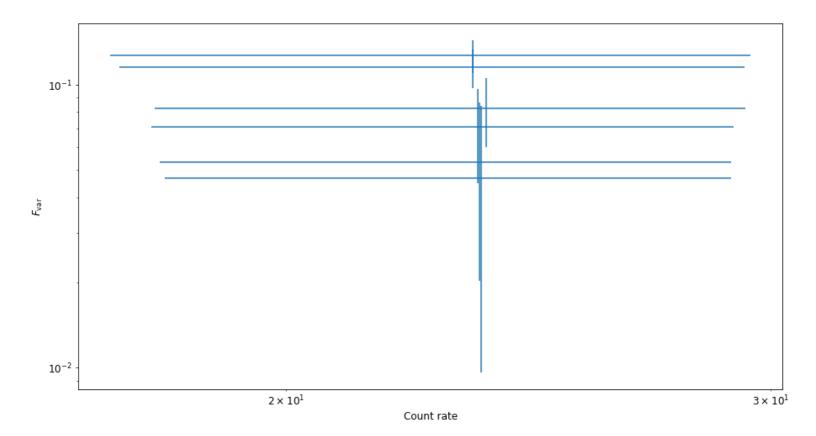


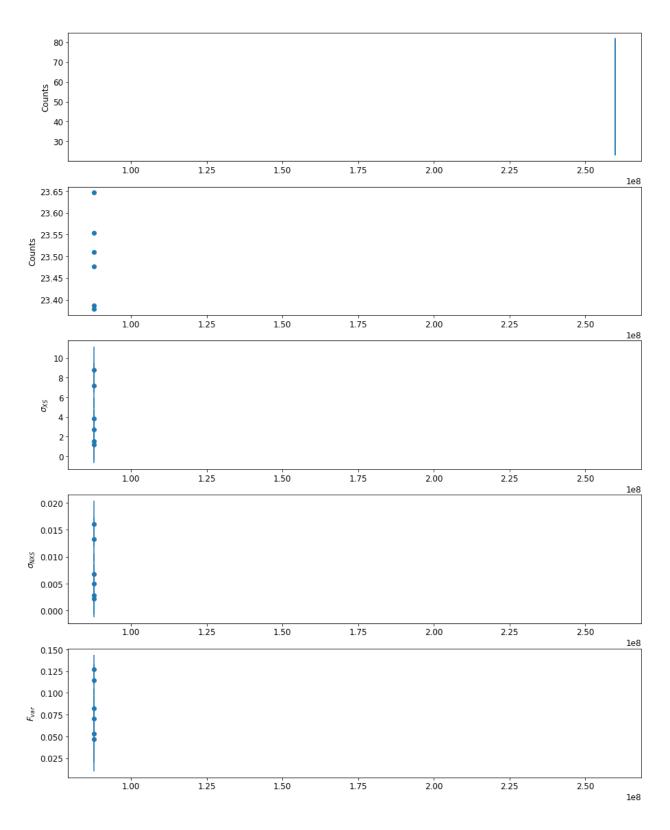
4. RMS Intensity Diagram:

a. Quasar:









- 5. Power Spectrum: (Time vs Frequency with Flux (Intensity represented by the colour)
 - a. Quasar:

