

ACTIVE GALACTIC NUCLEI

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GOALS OF RESEARCH

- DETERMINE ACTIVE VS INACTIVE
- VARIABILITY IN LIGHT CURVE
- CONTAMINATION IN DATABASE
- PARALLAX





ACTIVE GALACTIC NUCLEI

WHAT ARE THEY?

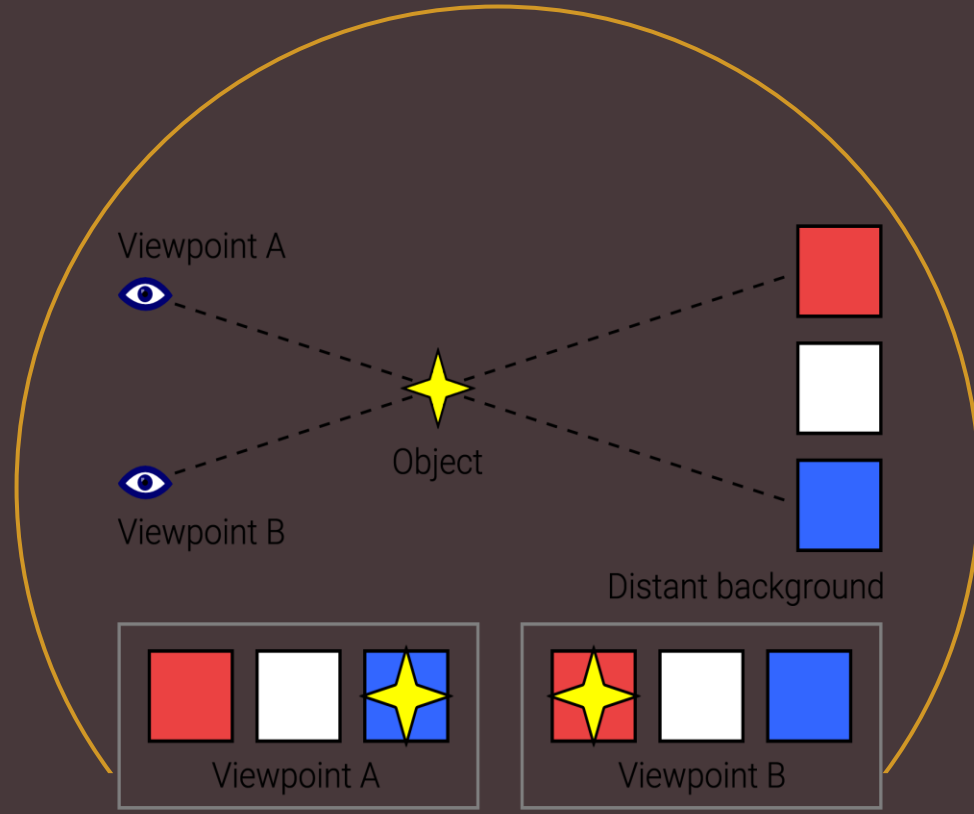
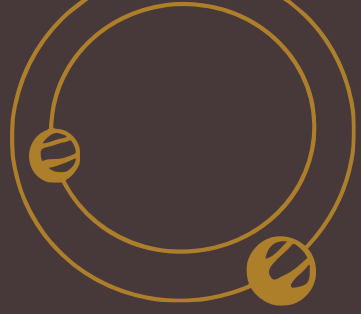
THUS FAR—PARALLAX

Gaia Database

Astronomical Data Query Language (ADQL)

Data Analysis

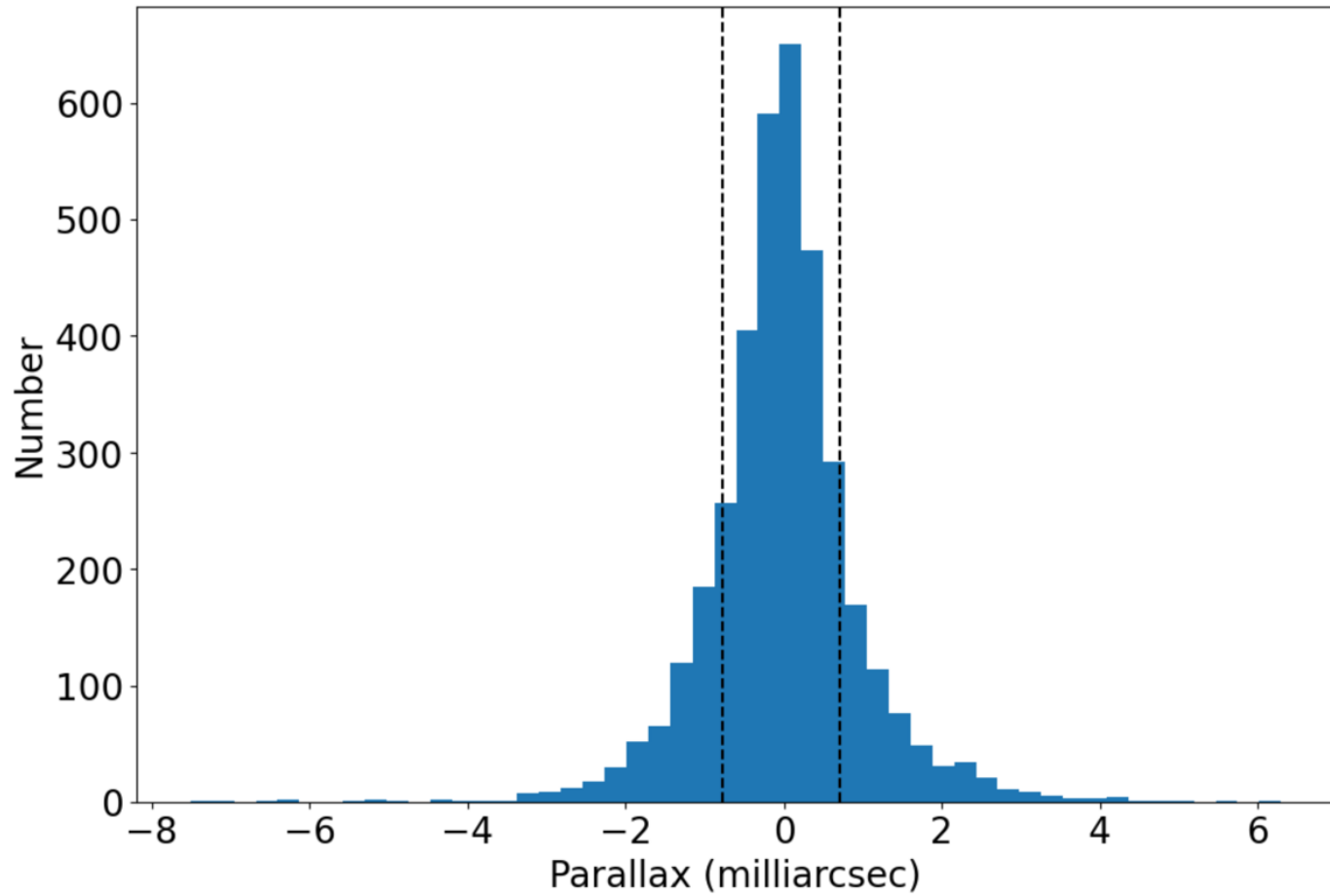




PARALLAX

QUICK EXPLANATION

Distribution of Parallaxes



PARALLAX ANALYSIS



LOOKING AHEAD

DATA ANALYSIS

Doing this now
Python
Graphs and charts and
code, oh my!

DETERMINE DISTANCE

Python part two,
electric bugaloo
This time, featuring
Math and Calculations!

ANALYZE LIGHT CURVE

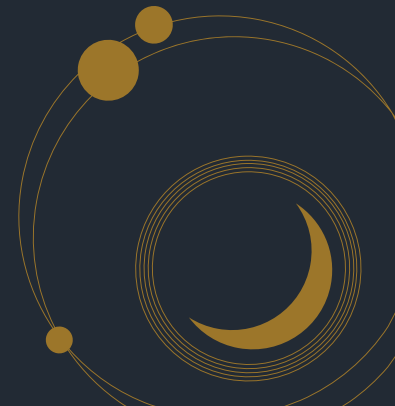
Variable AGN data –
perform variability
analysis
More code and
calculations

ACCRETION MODE

Find the “Accretion
Mode” of AGN
Most likely, more code
and calculations

FIND NEW AGN PHYSICS!

Hopefully!
Probably also involves
code and calculations



“ THANK YOU!
QUESTIONS? ”

- ME AFTER YOU LISTEN TO MY PRESENTATION

