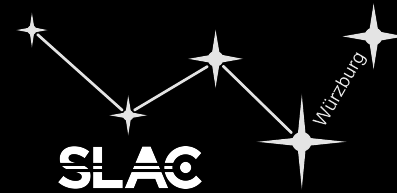
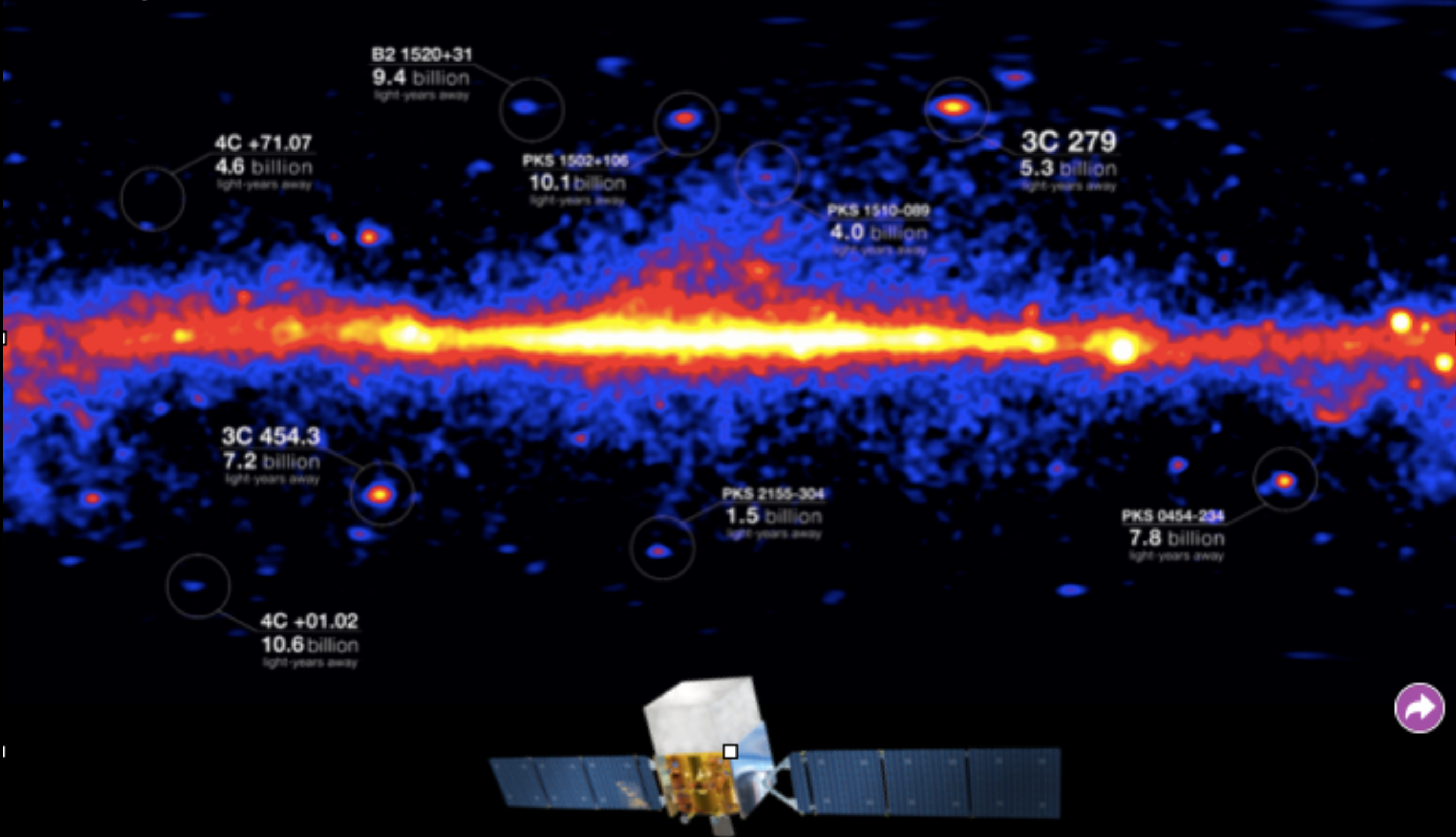


light curves

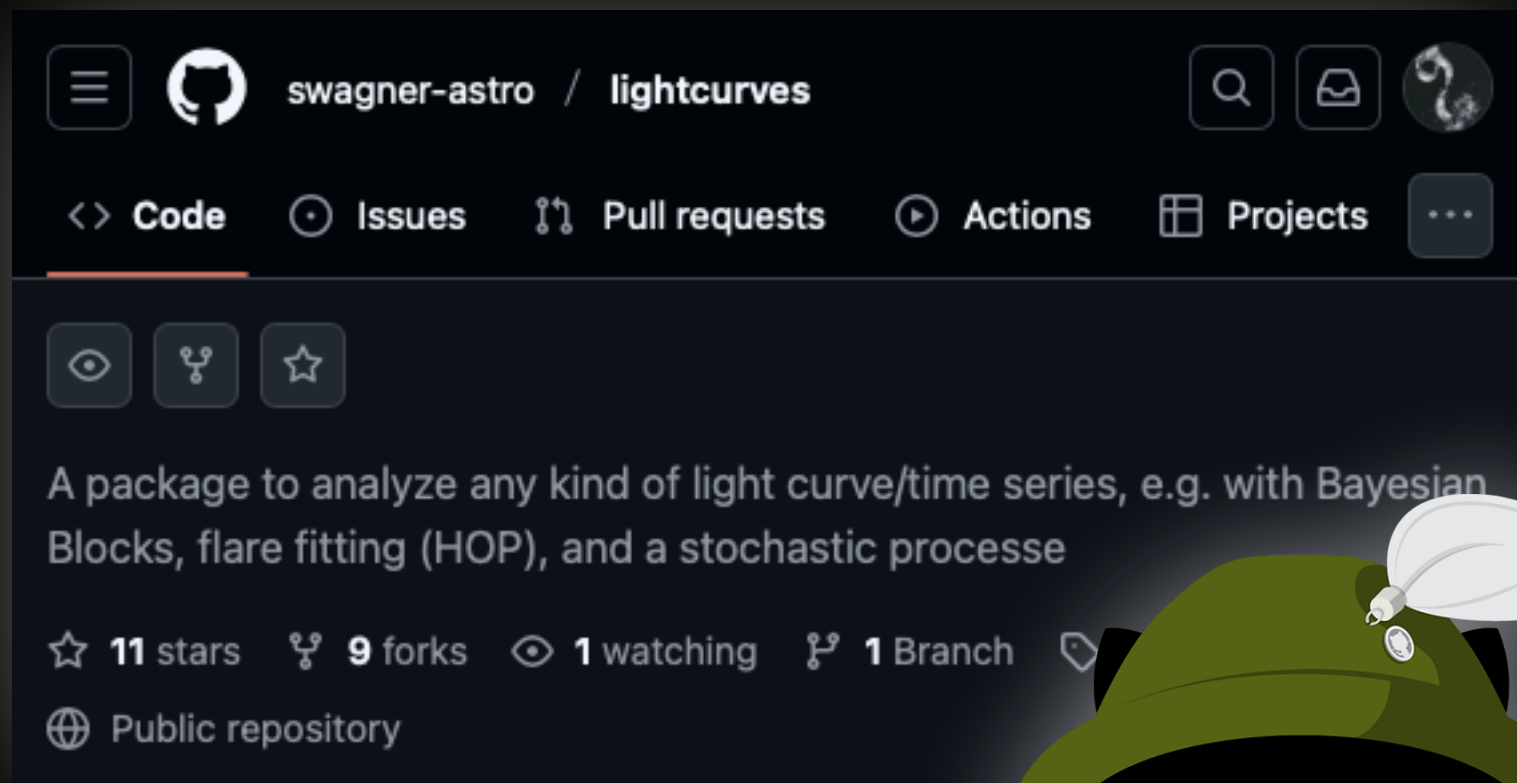
Sarah Wagner



Nov 20, 2008



lightcurves



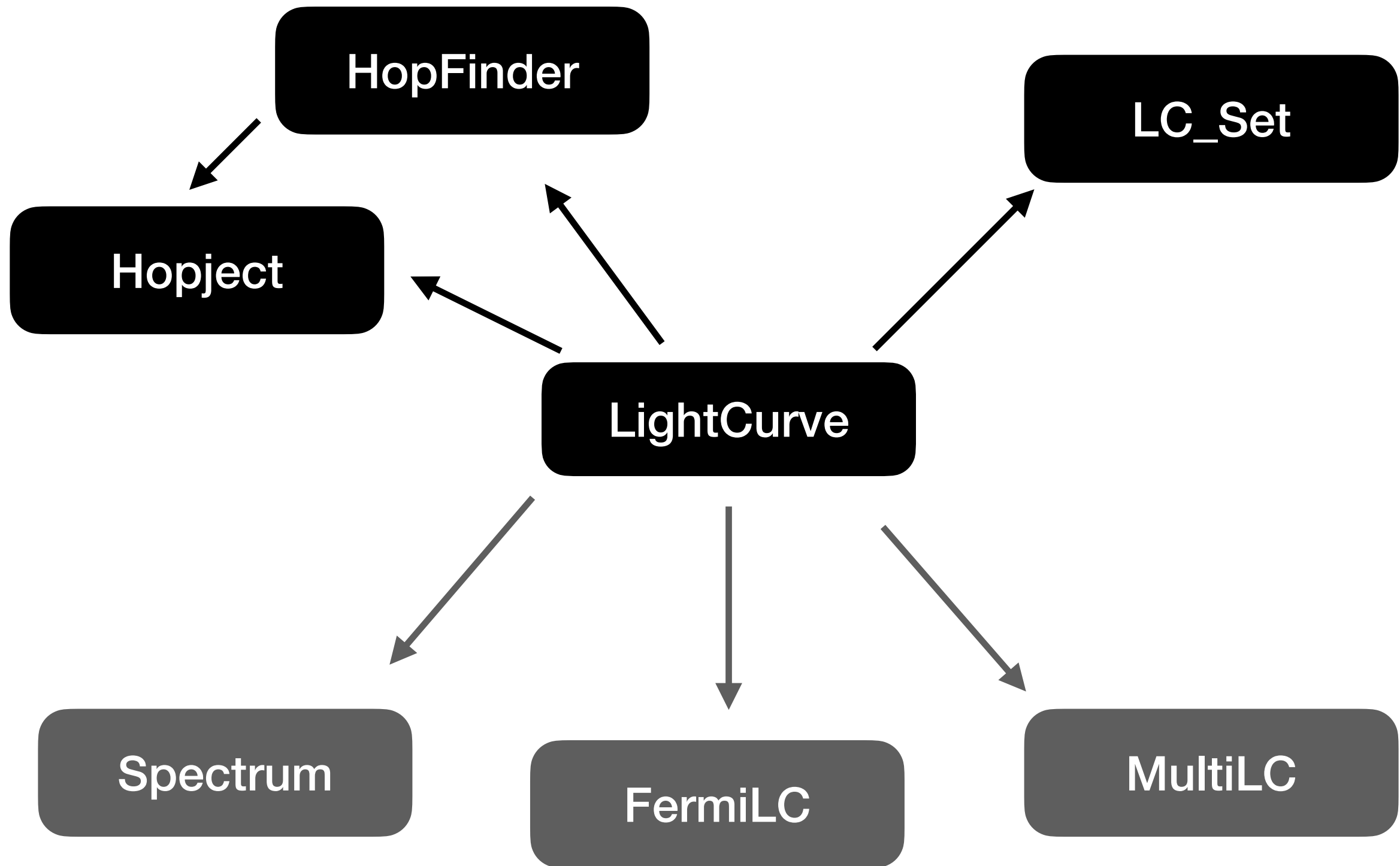
let's
connect!



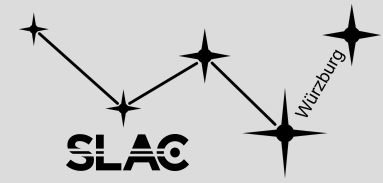
lightcurves 1.0.1

```
pip install lightcurves
```

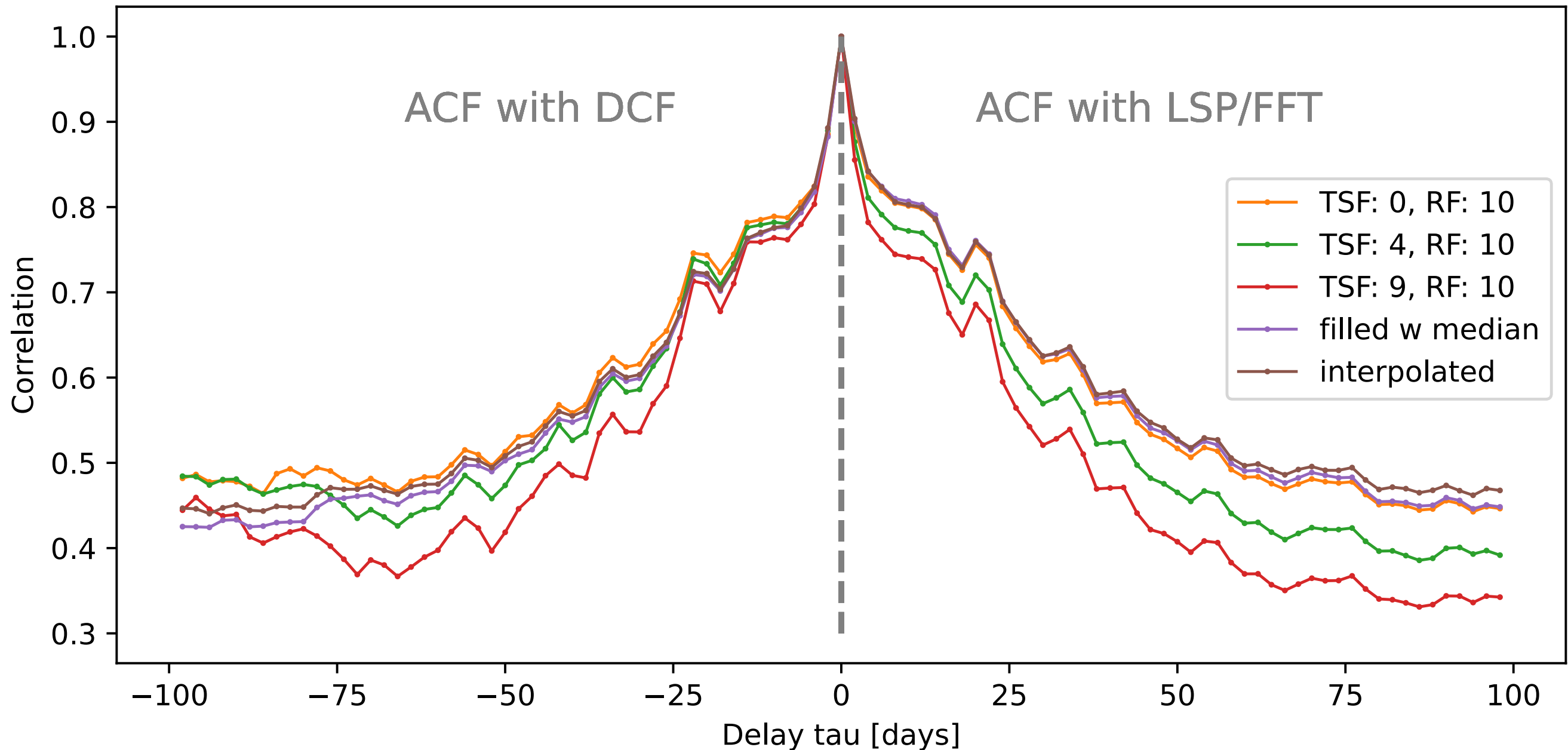




Auto-correlation



$$R_y(\tau) = \mathbf{E}[y(t) y(t + \tau)] = \int_{-\infty}^{+\infty} y(t) y(t + \tau) dt = \int_{-\infty}^{+\infty} |Y(s)|^2 e^{i2\pi st} ds$$



Systematically exclude bins with solar influence:

- separation source and sun < 5 deg
- $> 10^8$ counts in Fermi GBM solar flare catalog
- this affects five bins

