

investigate-KIC11453592

November 29, 2018

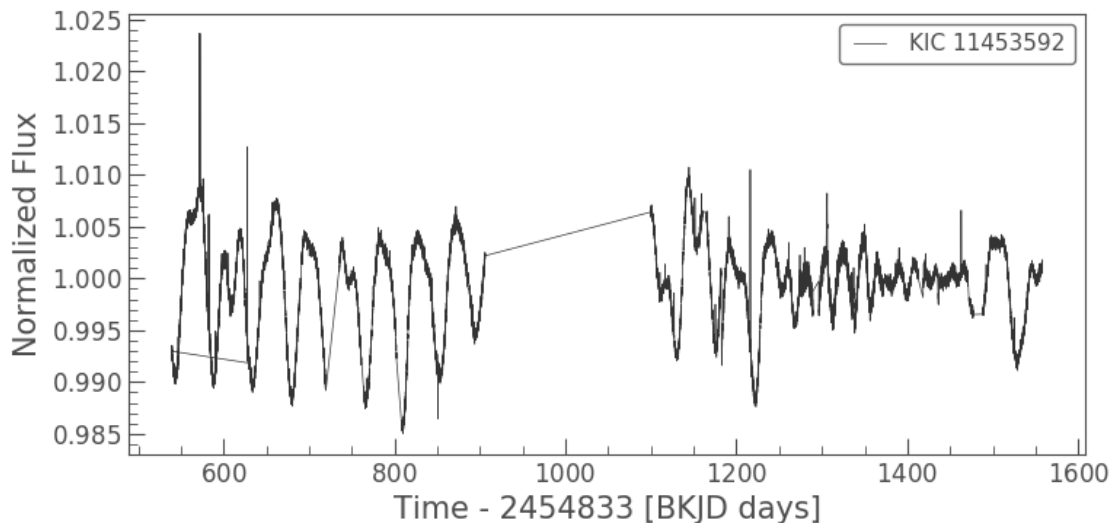
```
In [1]: from lightkurve import KeplerTargetPixelFile as ktpf
        from lightkurve import KeplerLightCurveFile
        import lightkurve
        from tqdm import tqdm
```

```
In [2]: target = 'KIC11453592'
        lc = lightkurve.search_lightcurvefile(target, quarter=6).download().PDCSAP_FLUX.normalized
        for q in tqdm(range(6, 17)):
            try:
                lc = lc.append(lightkurve.search_lightcurvefile(target, quarter=q).download().PDCSAP_FLUX.normalized)
            except:
                pass
        lc = lc.remove_nans()
```

```
36%|      | 4/11 [00:08<00:14, 2.11s/it]WARNING: NoResultsWarning: No products to download.
45%|     | 5/11 [00:09<00:11, 1.98s/it]WARNING: NoResultsWarning: No products to download. [
100%|| 11/11 [00:19<00:00, 1.75s/it]
```

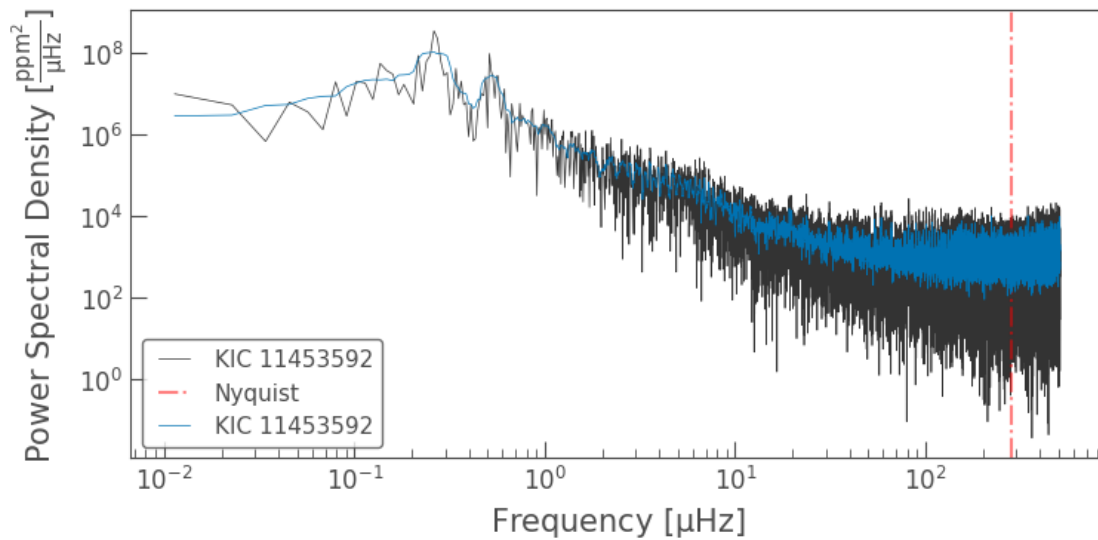
```
In [3]: lc.plot()
```

```
Out[3]: <matplotlib.axes._subplots.AxesSubplot at 0x11393d898>
```



```
In [21]: from astropy import units as u
pgl = lc.to_periodogram(freq_unit=u.microhertz, nyquist_factor=1.8)
ax = pgl.plot(scale='log')
ax.axvline(pgl.nyquist.value, c='r', linestyle='-.',label='Nyquist', alpha=.5)
pgl.smooth().plot(scale='log', ax=ax)
```

Out[21]: <matplotlib.axes._subplots.AxesSubplot at 0x118317908>



```
In [22]: snrl = pgl.flatten()
ax = snrl.plot()
ax.axvline(pgl.nyquist.value, c='r', linestyle='-.',label='Nyquist', alpha=.5)
ax.legend()
```

Out[22]: <matplotlib.legend.Legend at 0x11da90d68>

