

```
In [14]: 1 lc_split=lc.split_by_gti(min_points=1000)

WARNING:root:Segment with a single time bin! Ignoring this segment!
```

```
In [15]: 1 lc_split
```

```
Out[15]: [<stingray.lightcurve.Lightcurve at 0x7f1ecbdaa290>,  
<stingray.lightcurve.Lightcurve at 0x7f1ecbda9ab0>,  
<stingray.lightcurve.Lightcurve at 0x7f1ecbda9e10>,  
<stingray.lightcurve.Lightcurve at 0x7f1ecbdaa470>,  
<stingray.lightcurve.Lightcurve at 0x7f1ecbda93c0>,  
<stingray.lightcurve.Lightcurve at 0x7f1ecbda92a0>,  
<stingray.lightcurve.Lightcurve at 0x7f1ecbdaa320>,  
<stingray.lightcurve.Lightcurve at 0x7f1ecbda92d0>,  
<stingray.lightcurve.Lightcurve at 0x7f1ecb98dd80>,  
<stingray.lightcurve.Lightcurve at 0x7f1ecb98f190>,  
<stingray.lightcurve.Lightcurve at 0x7f1ecb98ee90>,  
<stingray.lightcurve.Lightcurve at 0x7f1ecb98f670>,  
<stingray.lightcurve.Lightcurve at 0x7f1ecb98e2c0>,  
<stingray.lightcurve.Lightcurve at 0x7f1ecb98f50>,  
<stingray.lightcurve.Lightcurve at 0x7f1ecb98ee30>,  
<stingray.lightcurve.Lightcurve at 0x7f1ecb98ed10>,  
<stingray.lightcurve.Lightcurve at 0x7f1ecad78ac0>,  
<stingray.lightcurve.Lightcurve at 0x7f1ecad79720>,  
<stingray.lightcurve.Lightcurve at 0x7f1ecad79a80>,  
<stingray.lightcurve.Lightcurve at 0x7f1ecb1611b0>,  
<stingray.lightcurve.Lightcurve at 0x7f1ecb161300>]
```

```
In [16]: 1 lc0=lc_split[0]
```

```
In [17]: 1 lc0.gti
```

```
Out[17]: array([[1.41446052e+08, 1.41447961e+08]])
```

```
In [18]: 1 lc0.gti[0][1]-lc0.gti[0][0]
```

Out[18]: 1908.9999999403954

```
In [19]: 1 len(lc0.time)
```

Out[19]: 38179

```
In [20]: 1 lc0.time[38178]-lc0.time[0]
```

Out[20]: 1908.90000000059605

```
In [21]: 1 ps0=Powerspectrum(lc0,norm='leahy')
```

[illegible]

```

File ~/.local/lib/python3.10/site-packages/stingray/fourier.py:1582, in avg_pds_from_events(times, gti, segment_size, dt, norm, use_common_mean, silent, fluxes, errors)
    1577 dt = segment_size / n_bin
    1579 flux_iterable = get_flux_iterable_from_segments(times, gti, segment_size,
    1580                                                  n_bin, fluxes=fluxes,
    1581                                                  errors=errors)
-> 1582 cross = avg_pds_from_iterable(flux_iterable, dt, norm=norm,
    1583                               use_common_mean=use_common_mean,
    1584                               silent=silent)
    1585 if cross is not None:
    1586     cross.meta["gti"] = gti

```

```

File ~/.local/lib/python3.10/site-packages/stingray/fourier.py:982, in avg_pds_from_iterable(flux_iterable, dt, norm, use_common_mean, silent)
    980 sum_of_photons = 0
    981 common_variance = None
-> 982 for flux in local_show_progress(flux_iterable):
    983     if flux is None or np.all(flux == 0):
    984         continue

```

```

File ~/.local/lib/python3.10/site-packages/stingray/fourier.py:901, in get_flux_iterable_from_segments(times, gti, segment_size, n_bin, fluxes, errors)
    897 dt = np.median(np.diff(times[:100]))
    899 fun = _which_segment_idx_fun(binned, dt)
-> 901 for s, e, idx0, idx1 in fun(times, gti, segment_size):
    902     if idx1 - idx0 < 2:
    903         yield None

```

```

File ~/.local/lib/python3.10/site-packages/stingray/gti.py:1597, in generate_indices_of_segment_boundaries_binned(times, gti, segment_size, dt)
    1595 gti = np.asarray(gti)
    1596 times = np.asarray(times)
-> 1597 startidx, stopidx = bin_intervals_from_gtis(gti, segment_size, times,
    1598                                             dt=dt)
    1600 if dt is None:
    1601     dt = 0

```

```

File ~/.local/lib/python3.10/site-packages/stingray/gti.py:1282, in bin_intervals_from_gtis(gtis, segment_size, times, dt, fraction_step, epsilon)
    1277 newbins = calculate_segment_bin_start(
    1278     startbin, stopbin, nbin, fraction_step=fraction_step)
    1279 spectrum_start_bins = \
    1280     np.append(spectrum_start_bins,
    1281              newbins)
-> 1282 assert len(spectrum_start_bins) > 0, \
    1283     ("No GTIs are equal to or longer than segment size.")
    1284 return spectrum_start_bins, spectrum_start_bins + nbin

```

AssertionError: No GTIs are equal to or longer than segment_size.