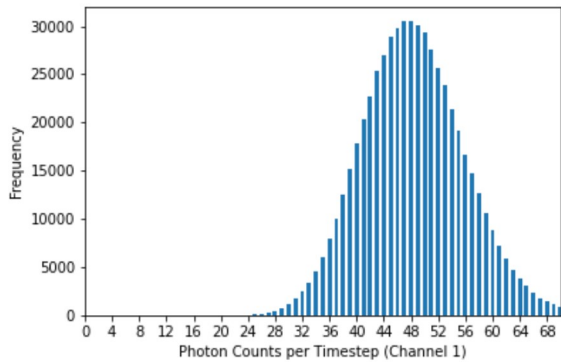


# Photon Statistics for Randomness Trial

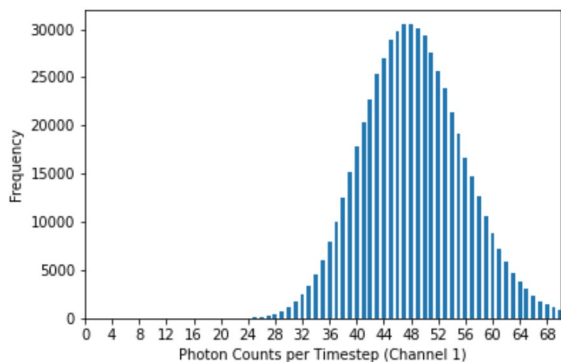
This report covers basic statistics on photon arrival times, photon counts, and coincidences. The settings used for this trial are: {'clock rate (hz)': 800.0, 'sample integration time (s)': 0.00125}. The following report was generated at: 20221011-200031

## Unnormalized Counts Across Integration Times



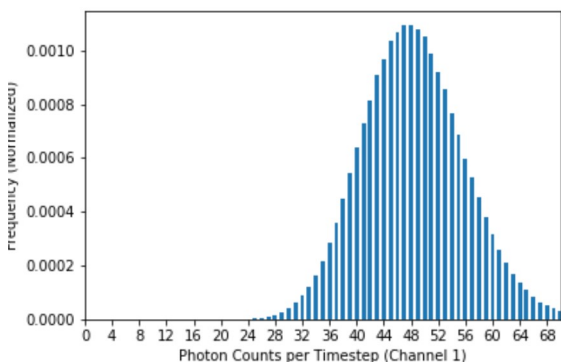
The above graph displays the distribution of counts that occur for each integration timestep (0.00125)

## Unnormalized Counts Across Integration Times



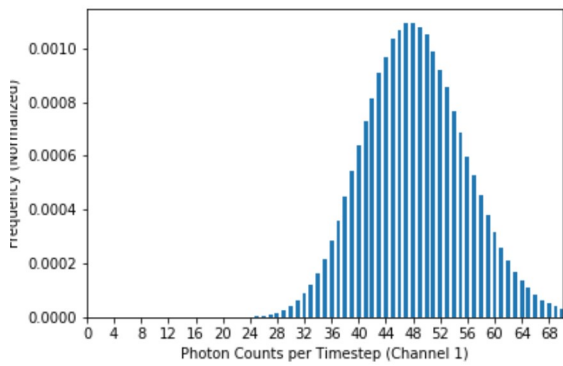
The above graph displays the distribution of counts that occur for each integration timestep (0.00125)

## Normalized Counts Across Integration Times



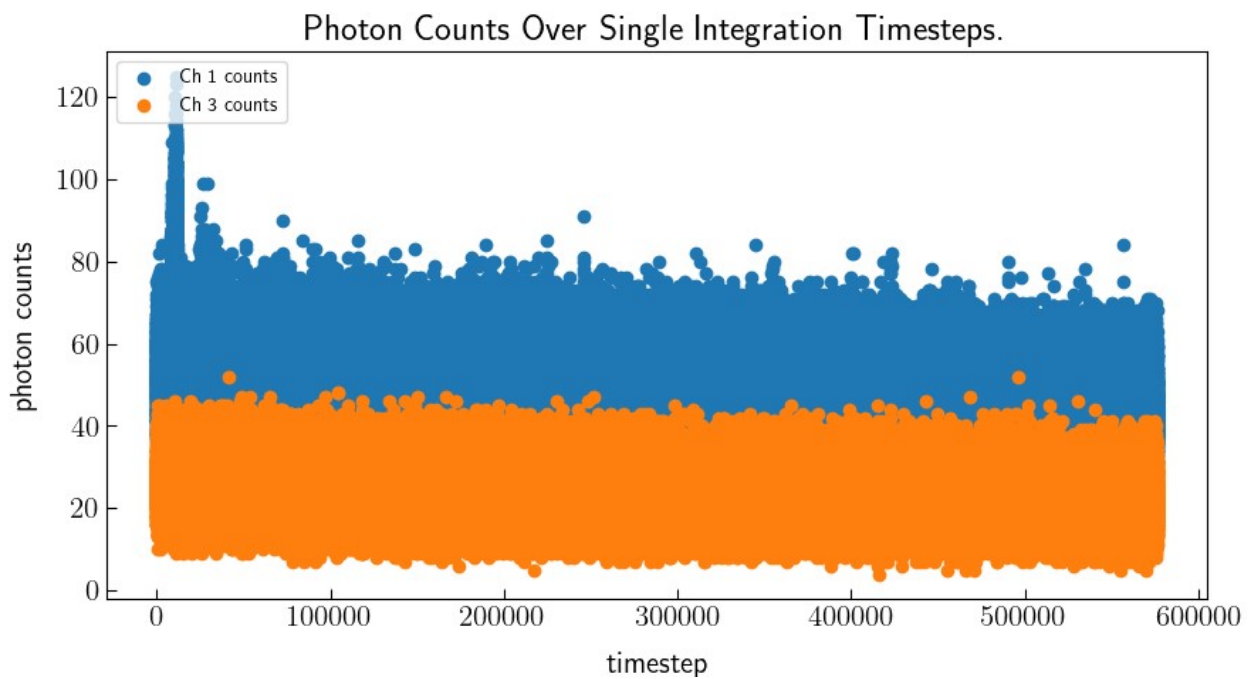
The above graph displays the distribution of counts that occur for each integration timestep (0.00125) normalized between 0 and 1

## Normalized Counts Across Integration Times



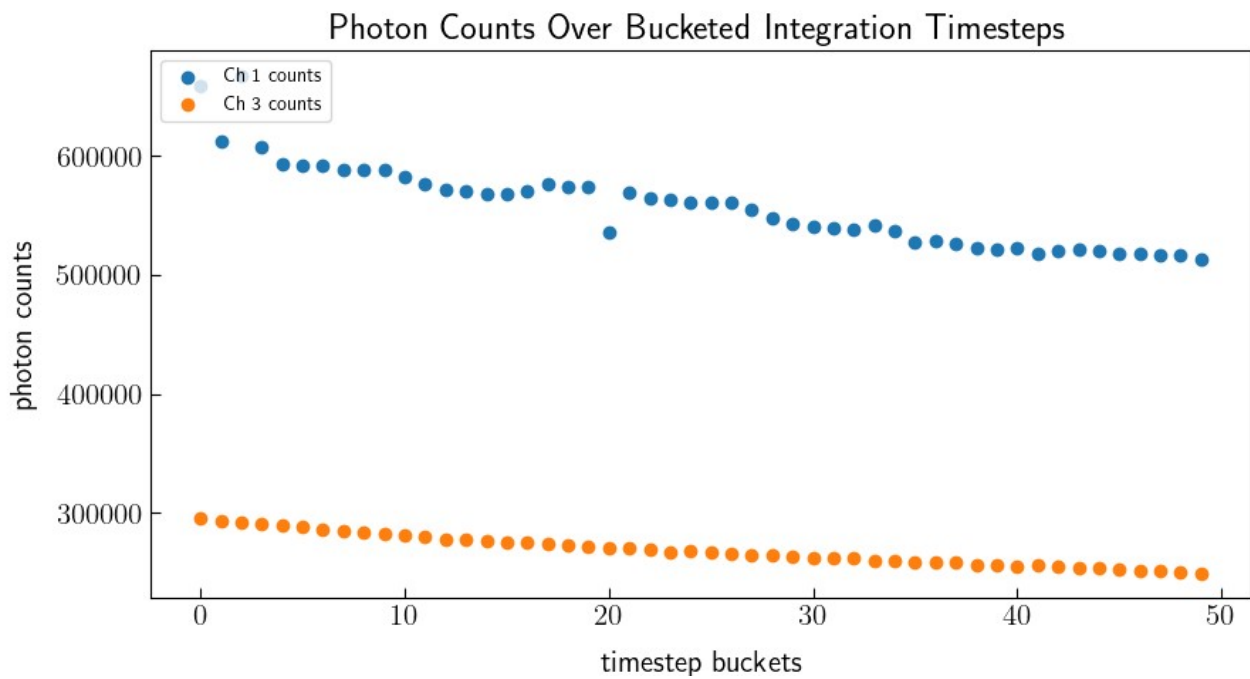
The above graph displays the distribution of counts that occur for each integration timestep (0.00125) normalized between 0 and 1

### Photon Counts Over all Integration Timesteps



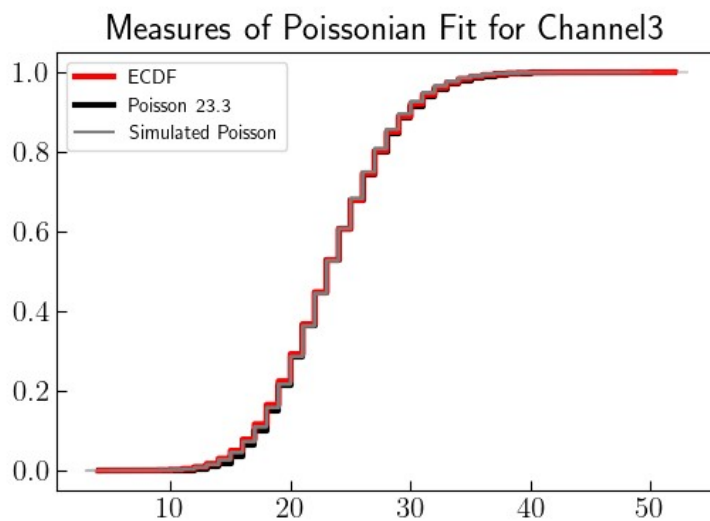
The amount of photons we count at each integration timestep

### Photon Counts Over all Bucketed Integration Timesteps



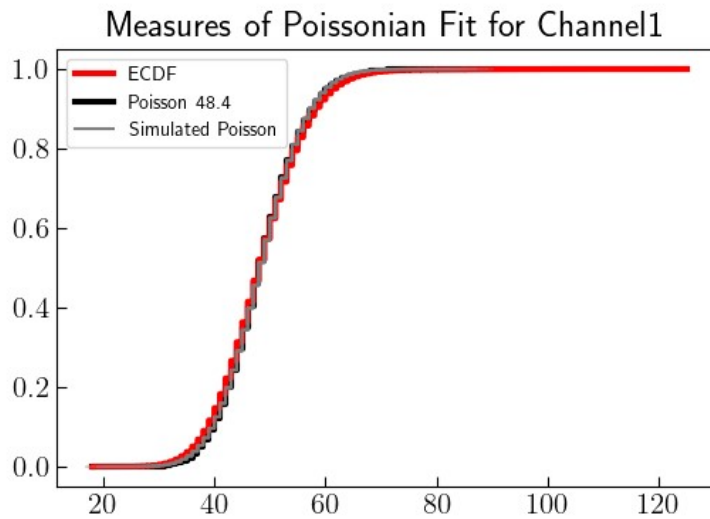
The total amount of photons we count at a summation of integration timesteps

### ECDF Tests for the given channel



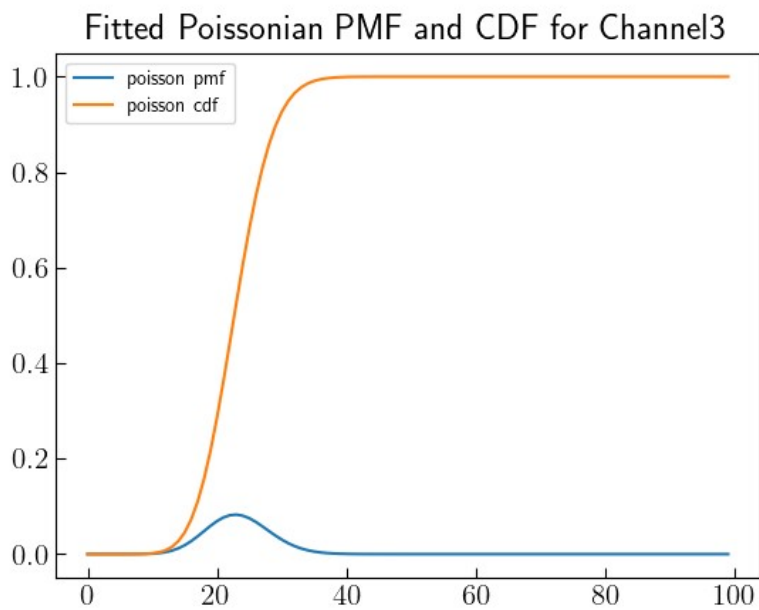
A graphical measure of how close our counts are to a Poissonian distribution

### ECDF Tests for the given channel



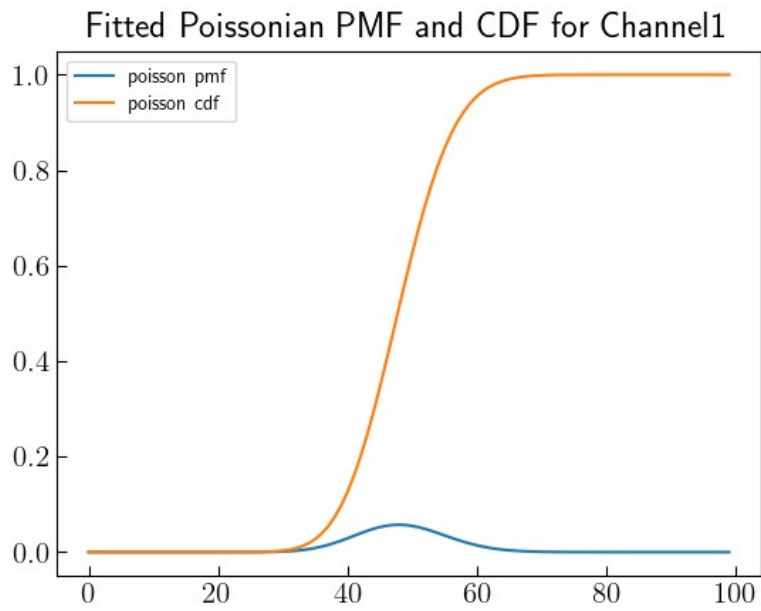
A graphical measure of how close our counts are to a Poissonian distribution

### Fitted Poissonian PMF and CDF for the given channel



The probability mass function and cumulative distribution function for a Poissonian fitted to the data for the given channel

### Fitted Poissonian PMF and CDF for the given channel



The probability mass function and cumulative distribution function for a Poissonian fitted to the data for the given channel