Work Flow Data Competition

# Initial Data Parsing

Turn list mode into integrated data

## Method

Take list mode data and integrate it into 4 or 8 Hertz spectral data files. These files will then be used as input in the “Continued Data Parsing” below.

## Scripts

* data\_parsing.R

## Input & Output

* main input is the raw list mode data:
  + the “raw” list mode data energy & time delta by photon
  + C:\Users\mooreet\_la\projects\SDRD\competition\data\trainingData\listData
  + C:\Users\mooreet\_la\projects\SDRD\competition\data\testingData\listData[[1]](#footnote-1)
* The file naming is different for the two input sets.
* Main output is the 4 or 8 Hertz data:
  + Integrated spectra by channels (or other feature) in bins
  + …\competition\data\trainingData\integrated\_32Ch25s (quarter second)
  + …\competition\data\trainingData\integrated\_32Ch125s (8th second)
  + Same for ‘testingData’

# Continued Data Parsing

Build the training, testing, & validation sets

## Method

## Scripts

## Output

# Model Building

# Notes

1. Naming convention is that the data set given to us as “training data” is called training (model building) & testing (model building testing). And the “testing data” is called validation data, used to score the methods.

1. See notes on the testing vs. training nomenclature. Here the competition language is referenced, so trainingData here is training & testing data and the testingData is the validation data. [↑](#footnote-ref-1)