## Coincidence LMFIT Example

September 8, 2022

## 1 Setup

```
[1]: import numpy as np
import matplotlib.pyplot as plt

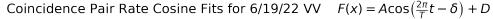
[2]: # Put your path to coinc_lmfit.py here
import sys
sys.path.insert(1, '..\..\coinc_lmfit')
import coinc_lmfit as cl
```

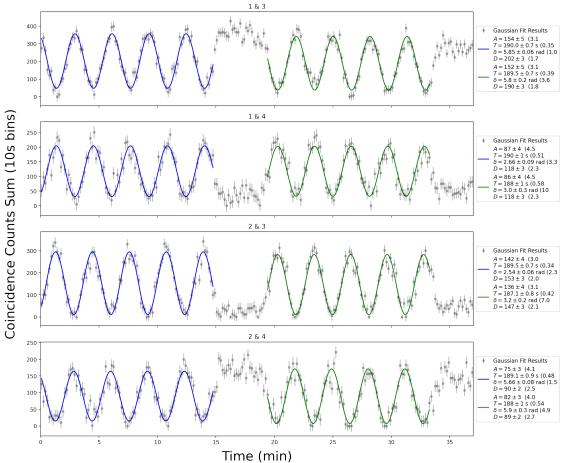
## 2 Simple example

Creating the standard plot I originally wrote these functions for.

```
[5]: res_list = []
for coinc_list in coinc_lists:
    firstrun = [x[slice1] for x in coinc_list]
    secondrun = [x[slice2] for x in coinc_list]
```

```
res1 = cl.fit_sin(*firstrun, ci_verbose=False)
res2 = cl.fit_sin(*secondrun, ci_verbose=False)
res_list.append((res1, res2))
```





## 3 Demonstration of plotting function flexibility

This is only an example, ignore the infinite uncertainties.

