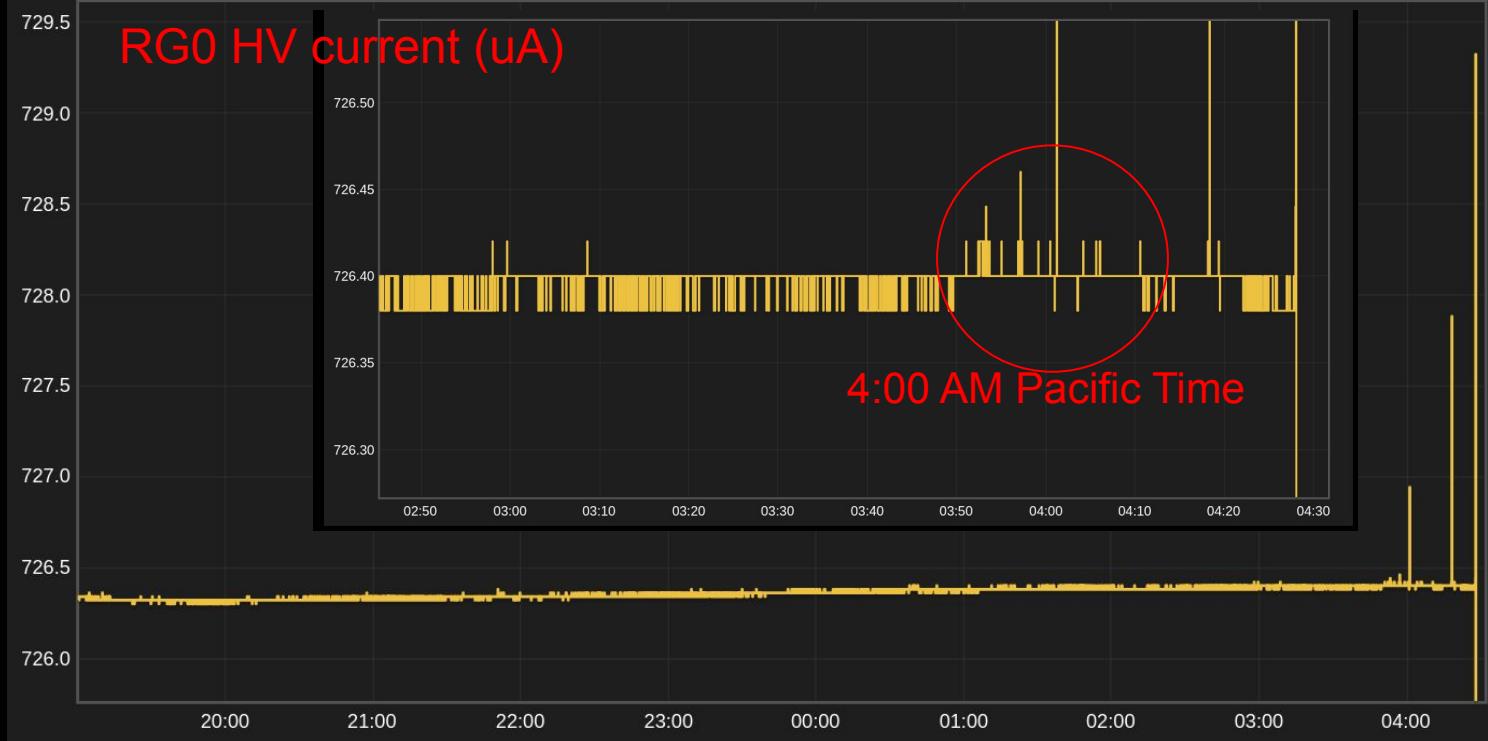


Failure of RG0  
on January 24th, 2025

## Time plot



## Data selection

Add

From: 2026-01-23 19:00

To: 2026-01-24 04:40

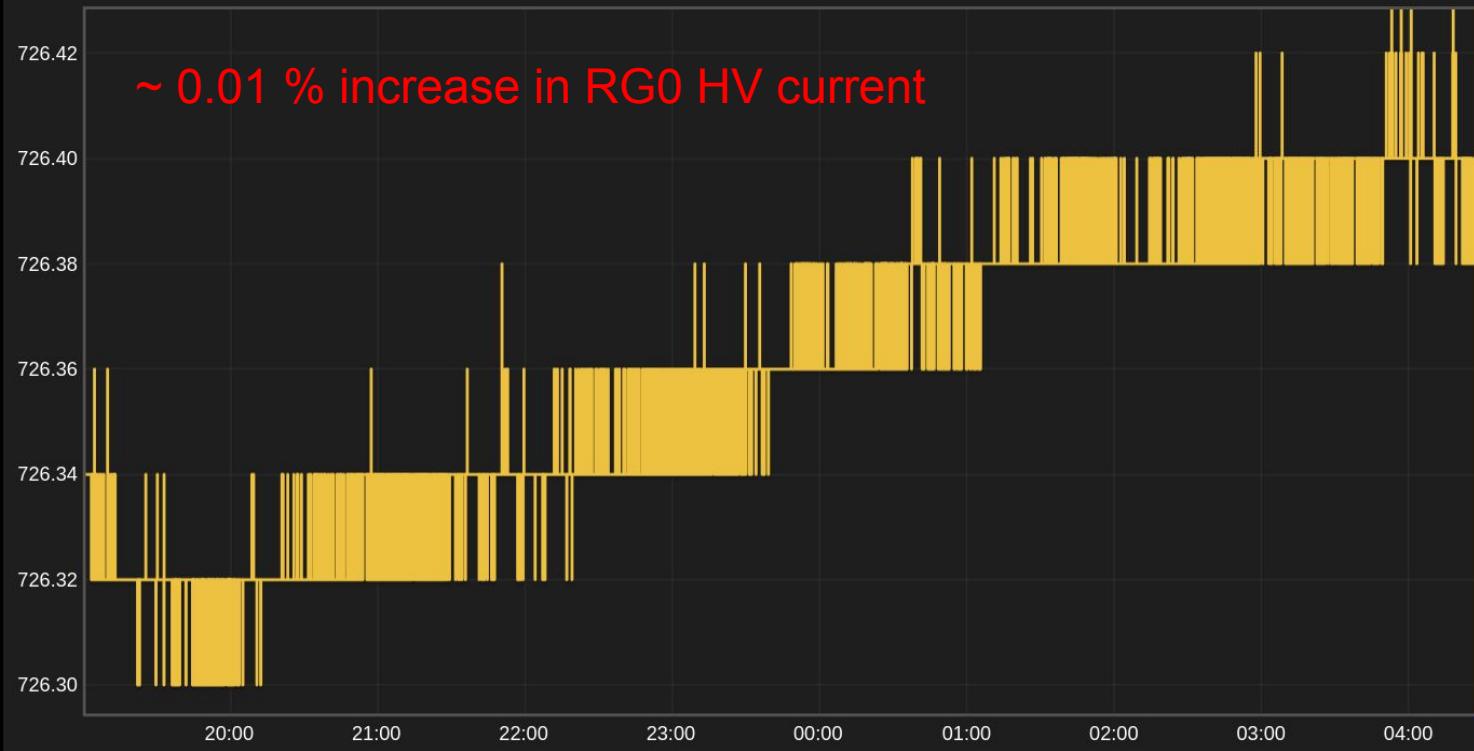
Bins: 10000

DL left right

## Legend

DL:right:gem:bottom:HV:current:cur.VAL

## Time plot



## Data selection

Add

- DL
- left
- right

From: 2026-01-23 19:00

To: 2026-01-24 04:40

Bins: 10000

## Legend

DL:right:gem:bottom:hv:current:cur.VAL

## Time plot



## Data selection

Add



From:

2026-01-23 19:00

To:

2026-01-24 04:40

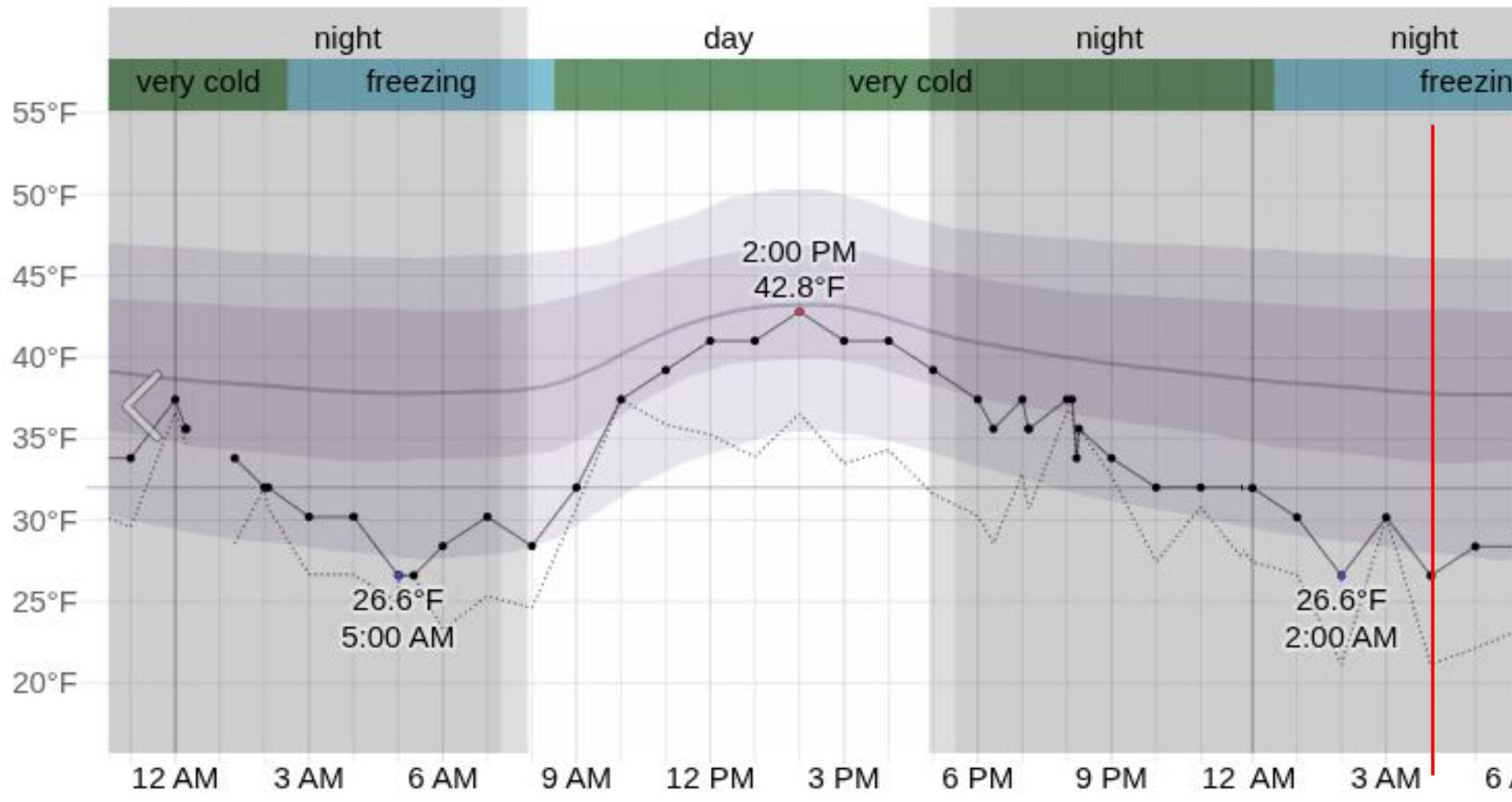
Bins:

10000

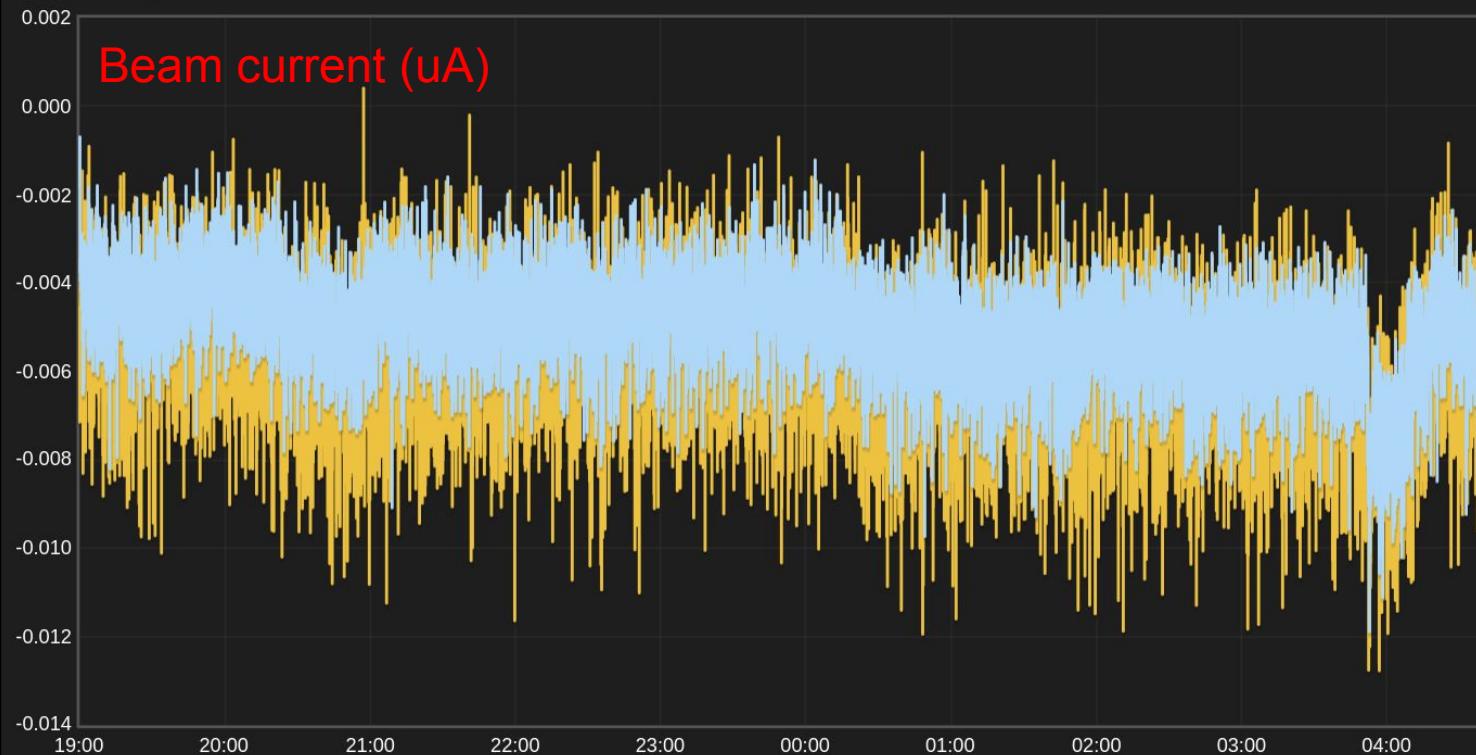
## Legend

DL:right:gem:bottom:hv:voltage:cur.VAL

# Temperature in Vancouver on Jan 23-24

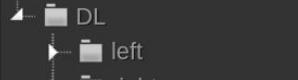


## Time plot



## Data selection

Add



From:

2026-01-23 19:00

To:

2026-01-24 04:40

Bins:

10000

## Legend

- DL:elinac:ELBT:ACCT1A:CURRAVE.VAL
- DL:elinac:ELBT:ACCT1B:CURRAVE.VAL



Time plot

110000  
100000  
90000  
80000  
70000  
60000  
50000  
40000  
30000  
20000  
10000

## Trigger rates (Left and Right)

19:00

20:00

21:00

22:00

23:00

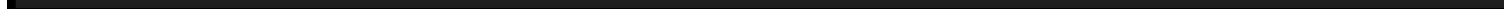
00:00

01:00

02:00

03:00

04:00



Data selection

Add



From:

2026-01-23 19:00

To:

2026-01-24 04:40

Bins:

10000



Legend

- DL:left:trigger:rate:total:cur.VAL
- DL:right:trigger:rate:total:cur.VAL

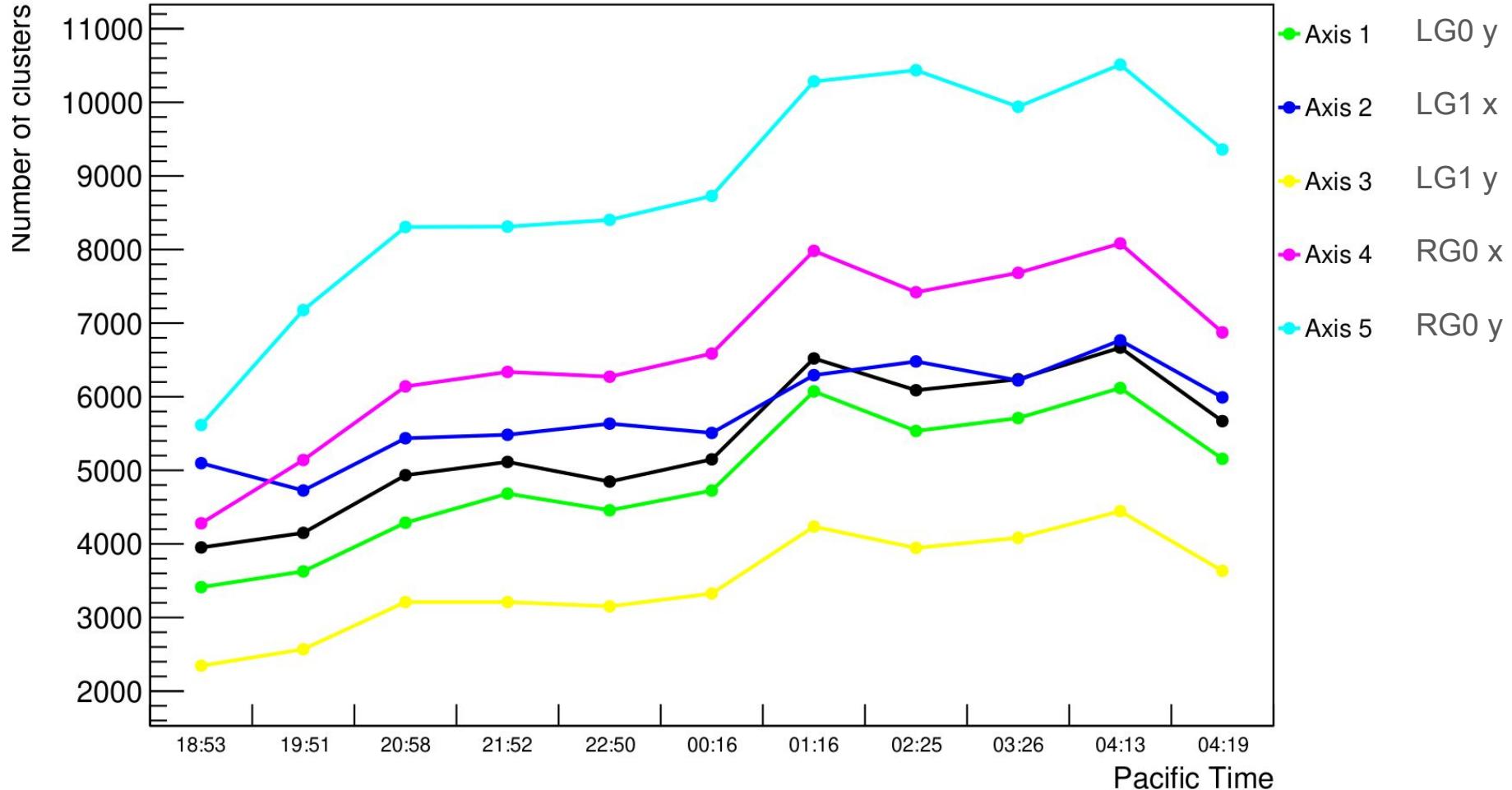
Moller Scattering: left arm at 12.3 A, right at 120 A, trigger on both arms.

Start time (PT)	Run number
18:53	4104
19:51	4107
20:58	4116
21:52	4119
22:50	4123
00:16	4128
01:16	4130
02:25	4134
03:26	4137
04:13	4140
04:19	4141

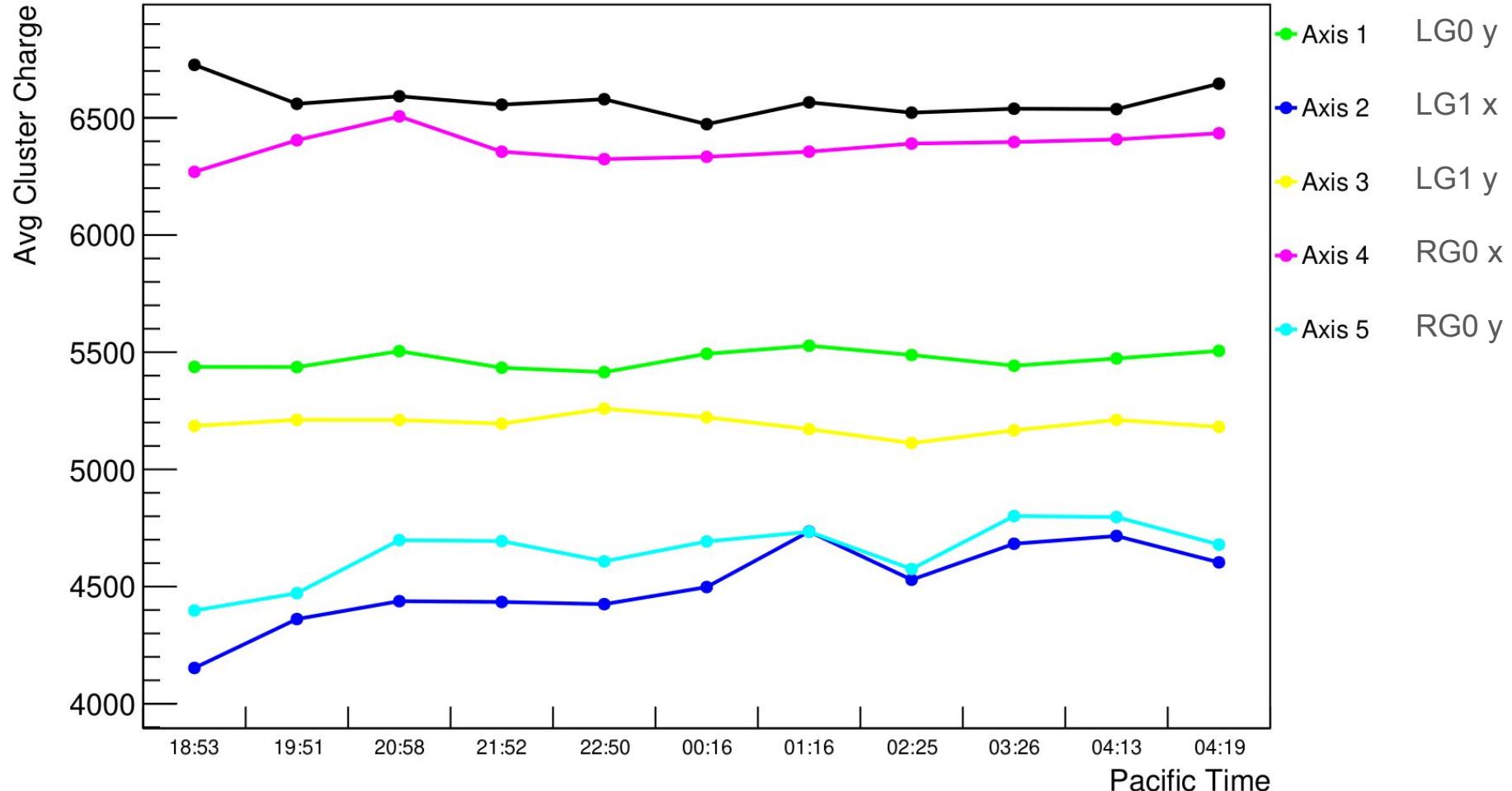
Analyzed 50k events

MIN\_PEAK\_ADC = 1000

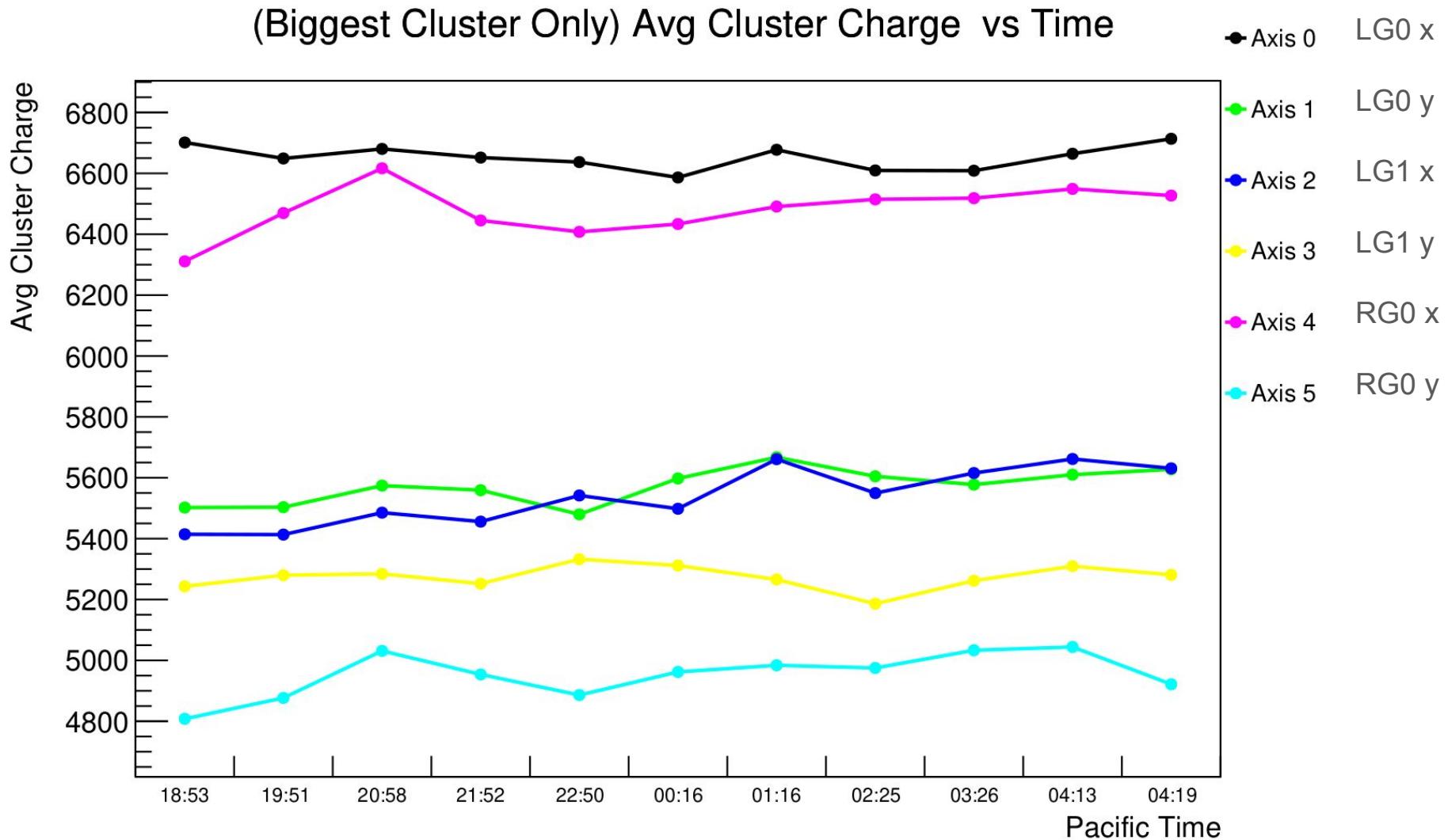
# Number of clusters vs Time



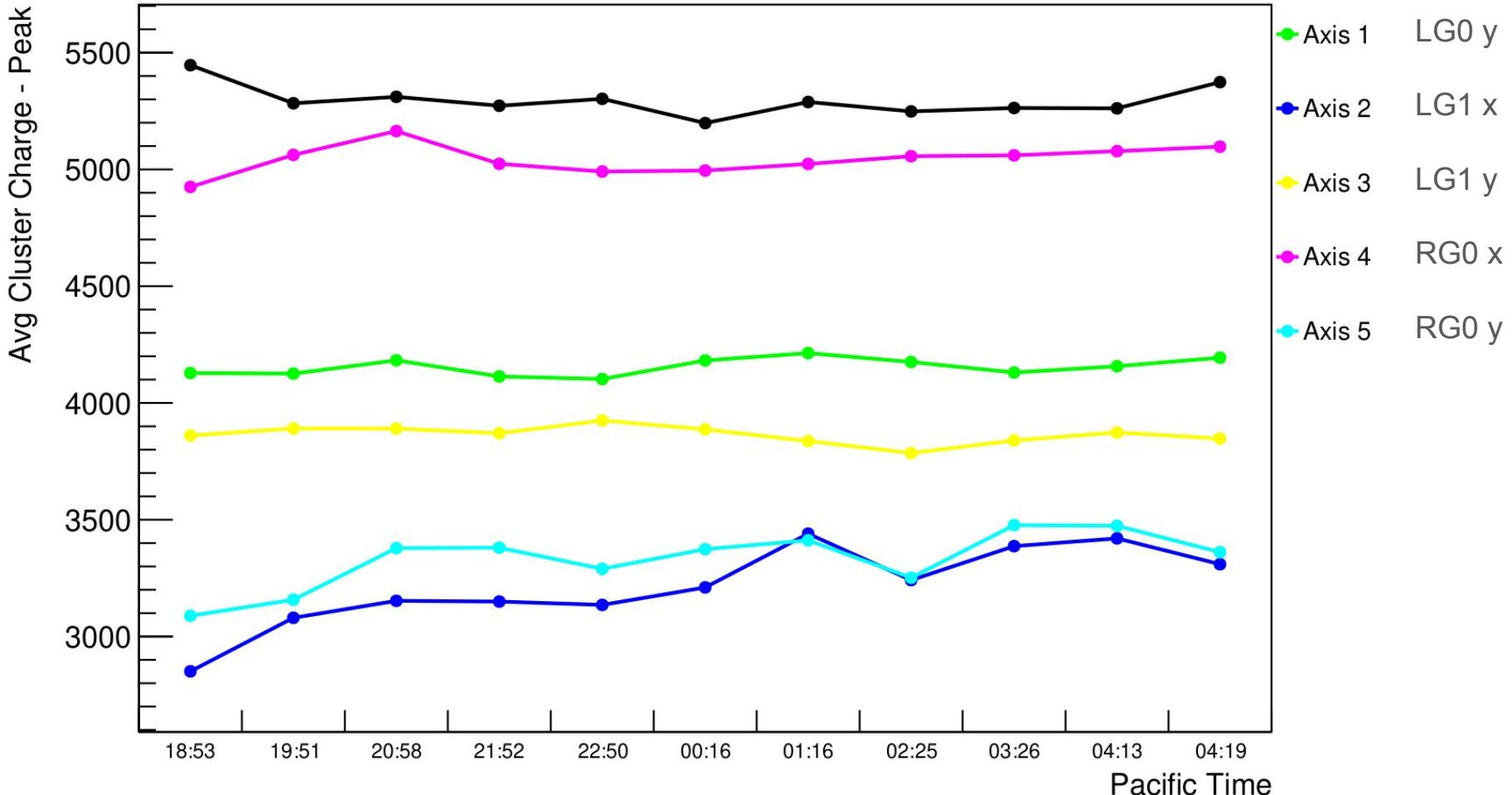
# Avg Cluster Charge vs Time



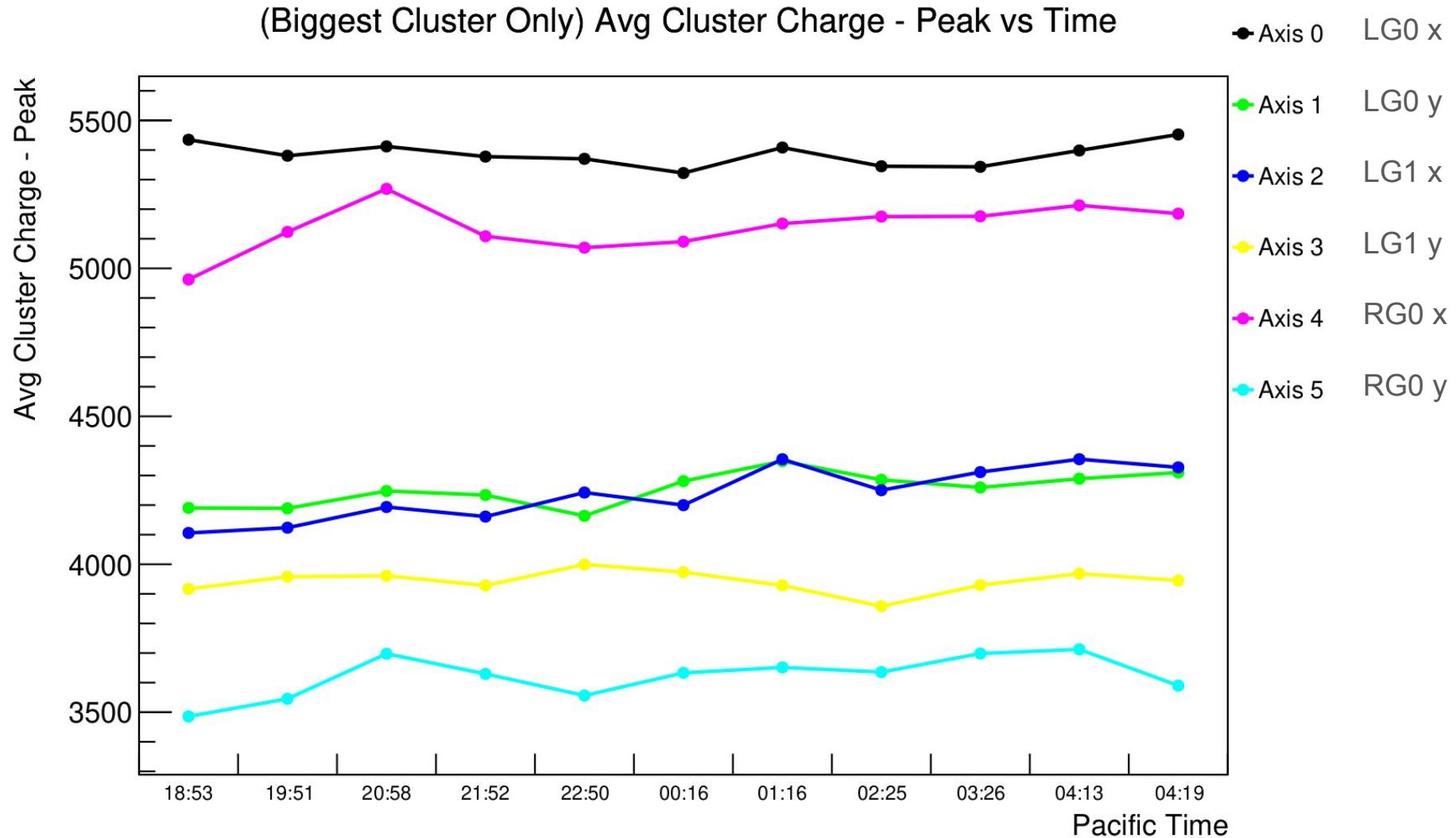
# (Biggest Cluster Only) Avg Cluster Charge vs Time



# Avg Cluster Charge - Peak vs Time



# (Biggest Cluster Only) Avg Cluster Charge - Peak vs Time



# Conclusions

- The failure coincides well with the change in beam current
- Cluster charge is axis dependent
- RG0 showed the largest number of clusters (need to compare with runs from a few days earlier)
- The average cluster charge did not change overnight