

Calibration database - proposal

All the information is kept by the google spreadsheet.

- The data is now all in the desktop of silicon lab.
- One day all the files should be uploaded to server (I guess).
- Candidate server : sphnx02 ?

Calibration data pool

```

tphx_raw_20220906-1943_0.root
tphx_raw_20220906-1907_0_config.dat
tphx_raw_20220906-1907_0.dat
tphx_raw_20220906-1919_0.dat
tphx_raw_20220906-1919_0_config.dat
tphx_raw_20220906-1924_0.dat
tphx_raw_20220906-1924_0_config.dat
tphx_raw_20220906-1924_0.root
tphx_raw_20220906-1929_0.dat
tphx_raw_20220906-1929_0_config.dat
tphx_raw_20220906-2017_0_config.dat
tphx_raw_20220906-2017_0.dat
tphx_raw_20220906-2018_0_config.dat
tphx_raw_20220906-2018_0.dat
tphx_raw_20220906-2018_0.root
tphx_raw_20220906-2037_0_config.dat
tphx_raw_20220906-2037_0.dat
tphx_raw_20220906-2052_0_config.dat
    
```

Request the information via google sheet API.

Request the plots by knowing the filename of ladder to be checked which is provided by the spreadsheet.

python

Advantage :

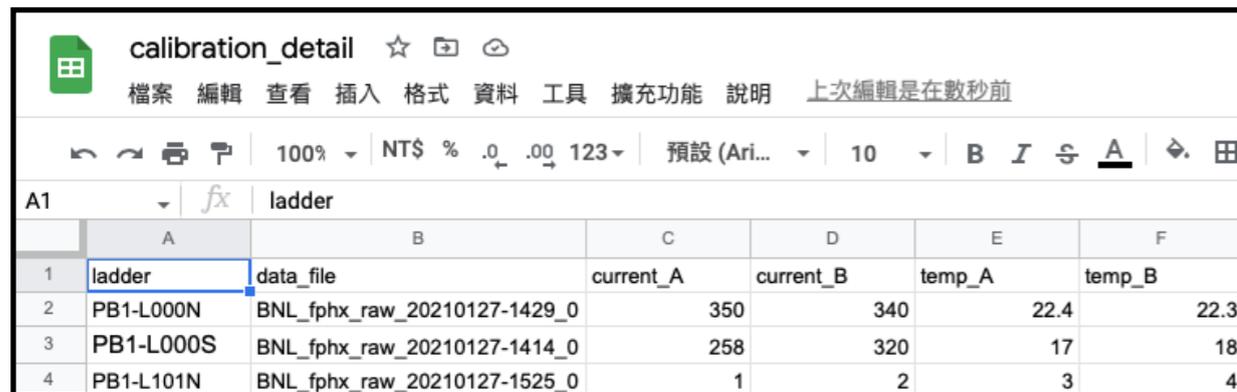
1. easy to do : python
2. always up to date (online spreadsheet)

A function to

1. request the information of the ladder to be checked from the google sheet via API.
2. finding the plots from the calibration data pool.
3. print the plot and all the information.

Plots and all the information of the ladder you want to check

Calibration database - prototype



	A	B	C	D	E	F
1	ladder	data_file	current_A	current_B	temp_A	temp_B
2	PB1-L000N	BNL_fphx_raw_20210127-1429_0	350	340	22.4	22.3
3	PB1-L000S	BNL_fphx_raw_20210127-1414_0	258	320	17	18
4	PB1-L101N	BNL_fphx_raw_20210127-1525_0	1	2	3	4

I made a prototype to check the feasibility
Use left-hand side sheet for testing

```
(3, 6)
3
available function :
def plot_request (string ladder_name, bool show_plot)

available ladder :
PB1-L000N
PB1-L000S
>>> data.plot_request("PB1-L000N", True)
Found it PB1-L000N
temp A : 22.4 temp B : 22.3
current A : 350 current B : 340

```

Access the temp., current info.
and plot with single comment.

