# Status & plans for the coming weeks / months

- ➢ This campaign is over; equipment left in place, area is secured (I hope)
  - ➢ We took the scope and the HRPPD back to 510 though
- ➢ All data copied over to SDCC
- ➢ First data quality pass is finished
- ➢ Ping has just pre-processed all runs taken last week

- ➢ Craig is going to send the scope to Tektronix for a repair
- ➢ Once it is back, we will start preparations for a short (1-2 days) femtosecond laser campaign

- ➢ INFN HRPPD B-field campaign has concluded today (?)
- ➢ Silvia is pushing for presenting preliminary results in a TIC meeting on January 12th
  - ➢ Who of us is around to process the data and populate slides by then?

My TODO list for the "filtering" script

Channels 17 and 18 as presented in the plots
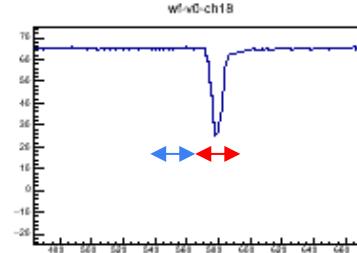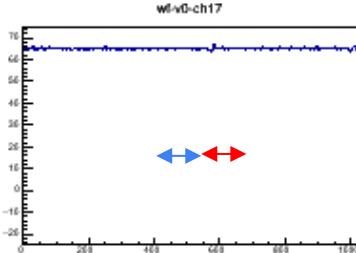
Red: our useful events (20 time bins)
Blue: any other 20 bins earlier in time

➤ Calibrate baseline wiggle on the fly

➤ Fit both Gaussians and whatever we consider a single+double photoelectron peak at once

  ➤ The latter can be either Polya fit (if it works) or bin-by-bin

➤ "Subtract" the background peak up to a ~2-3σ level for selections where signal merges into pedestal

➤ q[] -> qs[] and qb[] in the next script iteration

➤ Also, timing variables will be added in a proper way

One can clearly distinguish single-photon events on top of the pedestal peak

Red Gaussian is ~5% lower

17+18 selection charge, [fC]

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