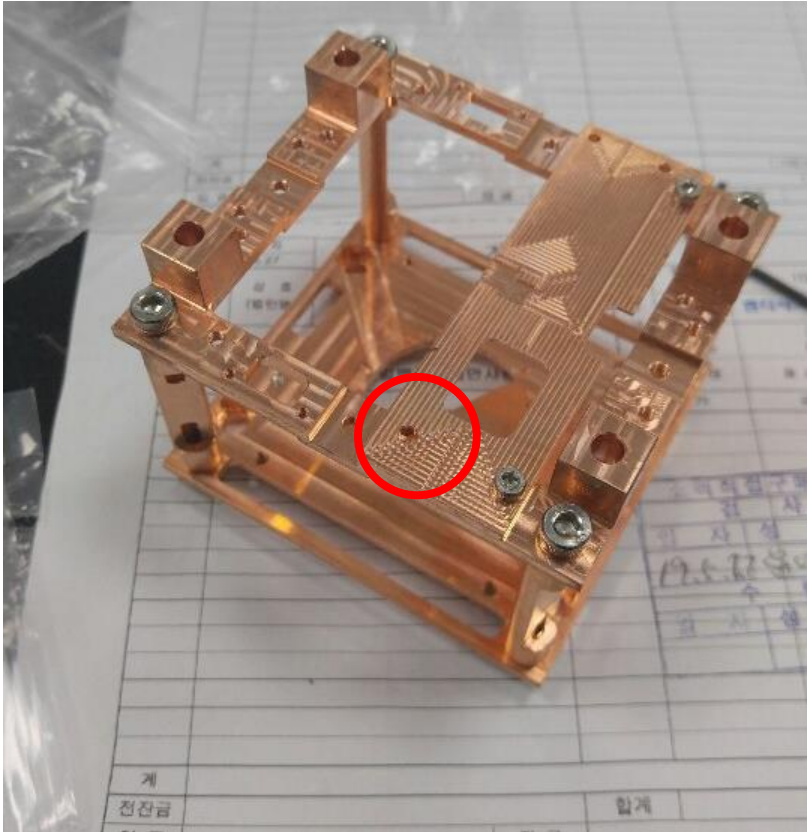


Weekly Report

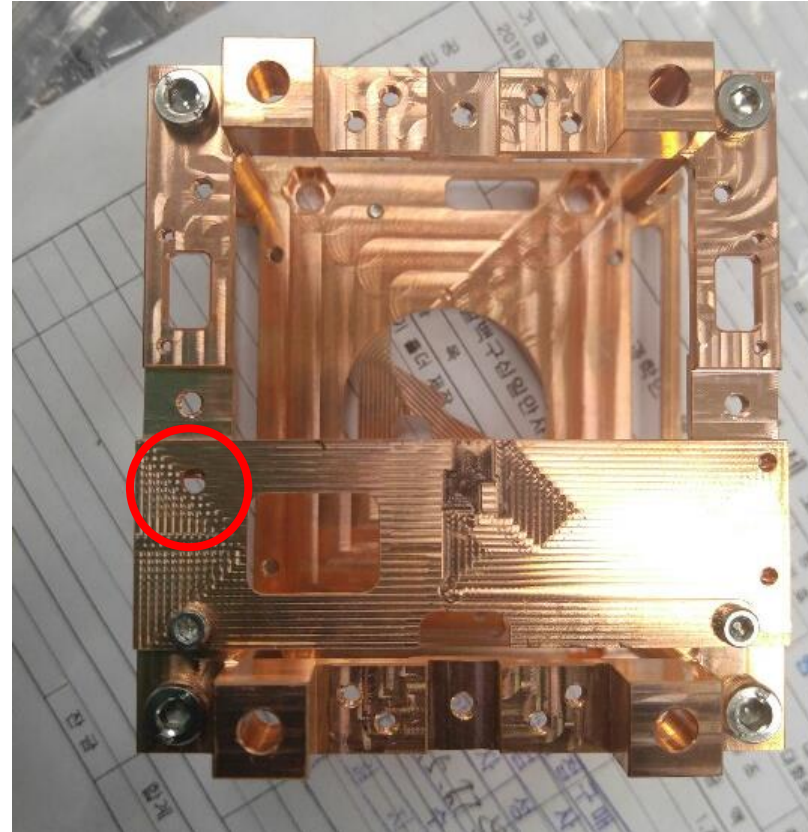
2019-06-03

Kim, Hanbeom

New detector module design - 190527

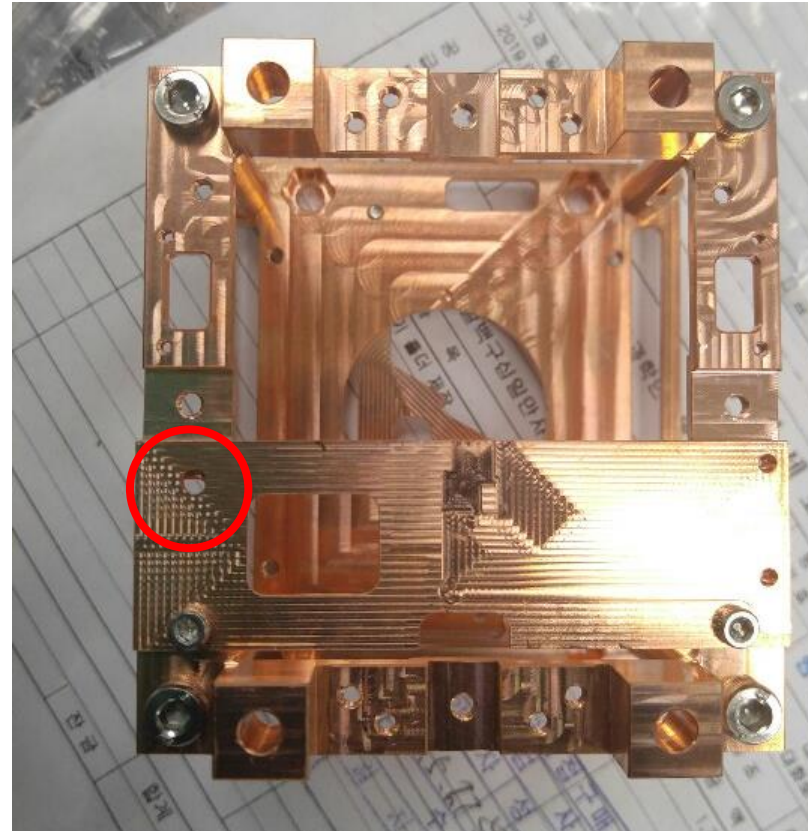


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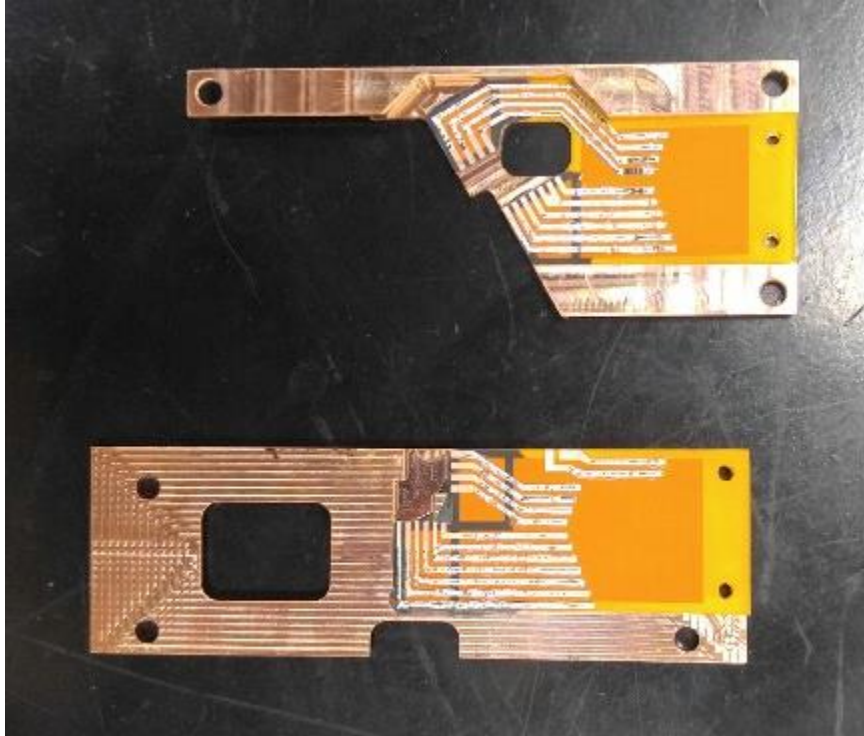


Weekly Report

New detector module design

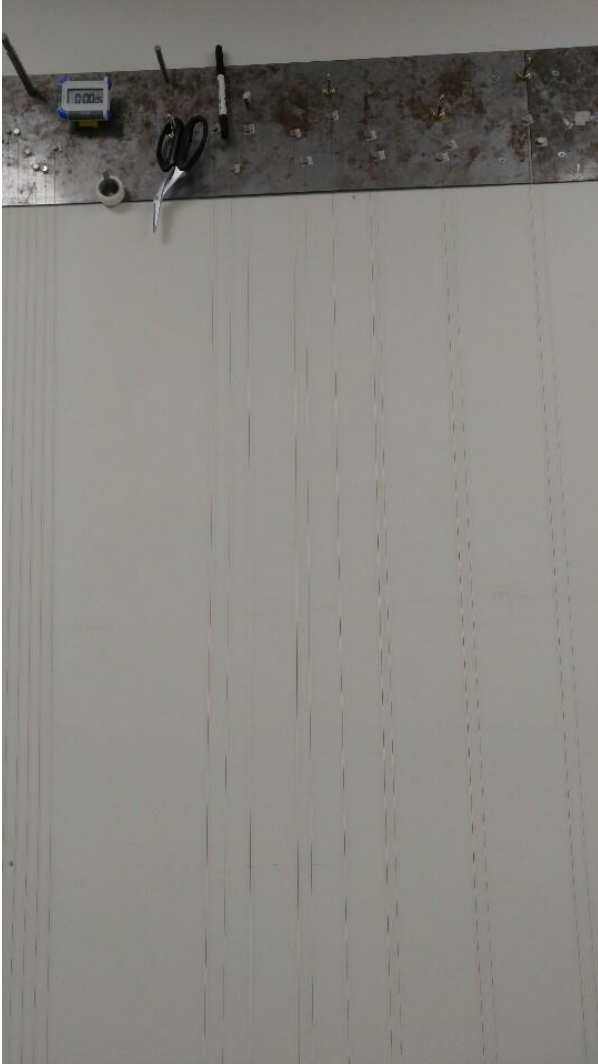


New detector module design – sensor & pcb



- Photon sensor
 - PCB design error.....
- Phonon sensor

New detector module design – wires

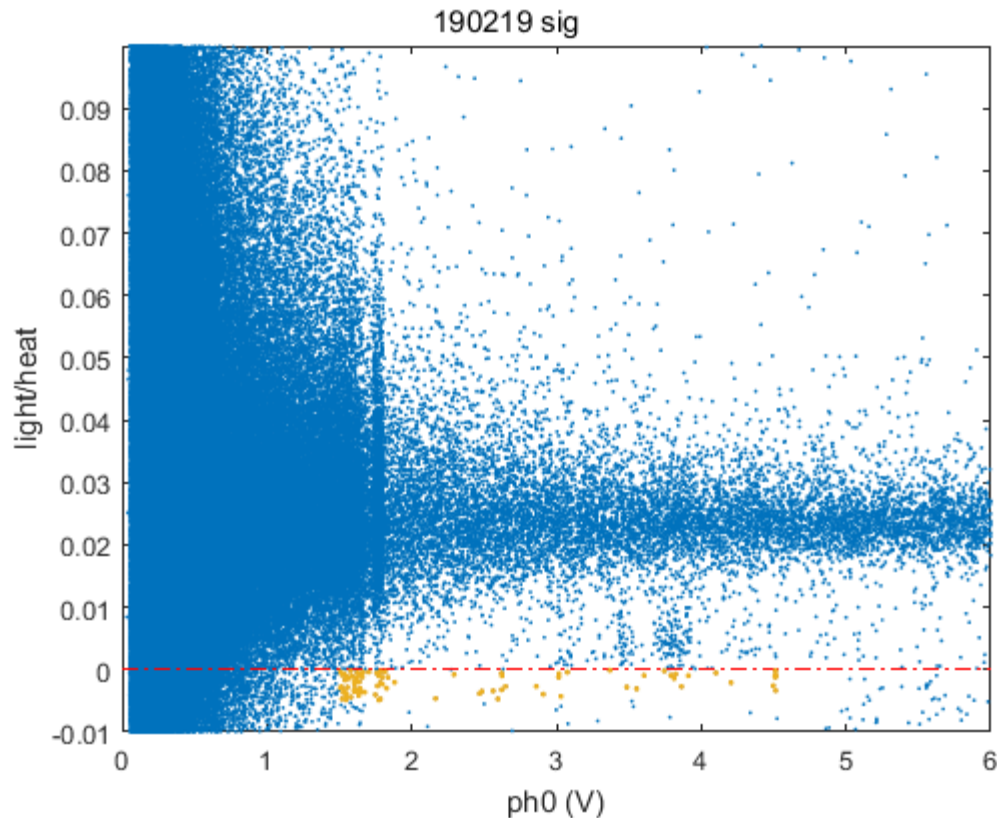


- Cu-clad NbTi Superconducting wire
 - 2 SQUID channels: 7 wires each
 - 2 MMC channels: 4 wires each
 - 1 heater channel: 2 wires

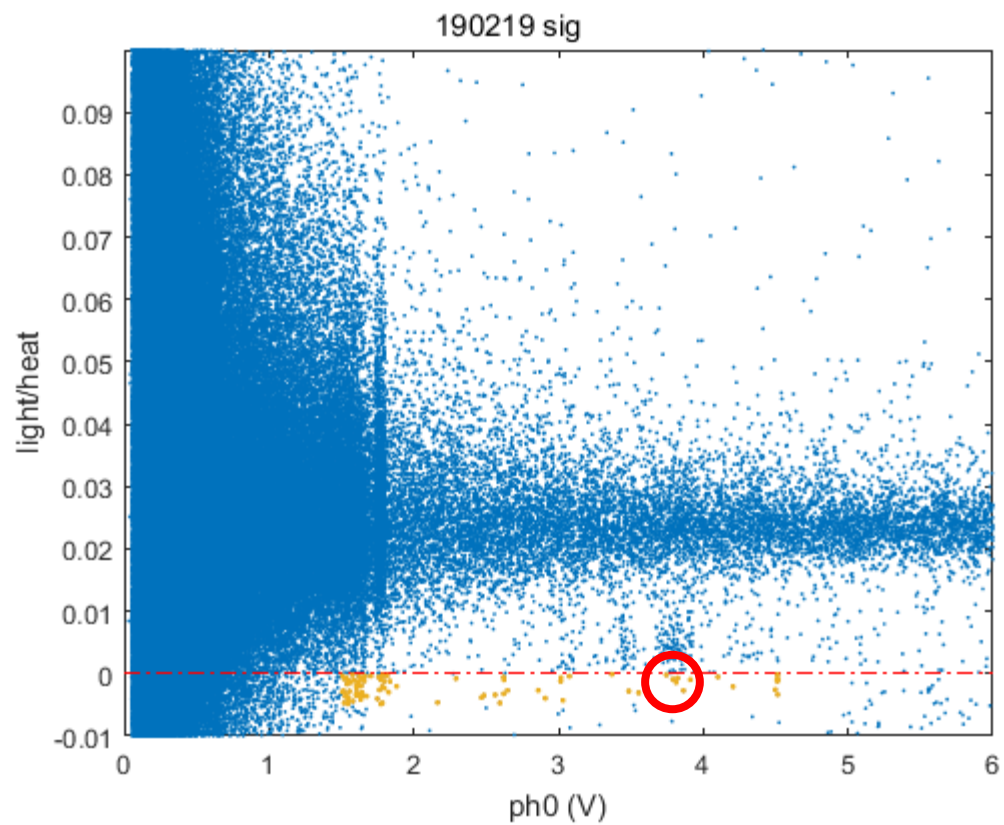
New detector module design – further plan

- Attachment of MMC & SQUID + Wiring
- 4K Test
- Assembly of detector including clamp, wafer, and crystal
- Test on RODY (refrigerator at IBS)

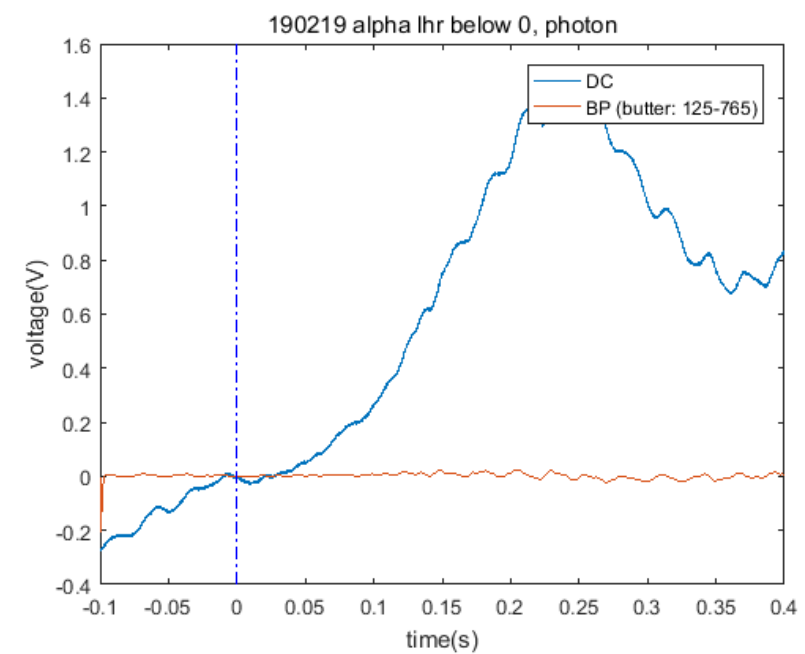
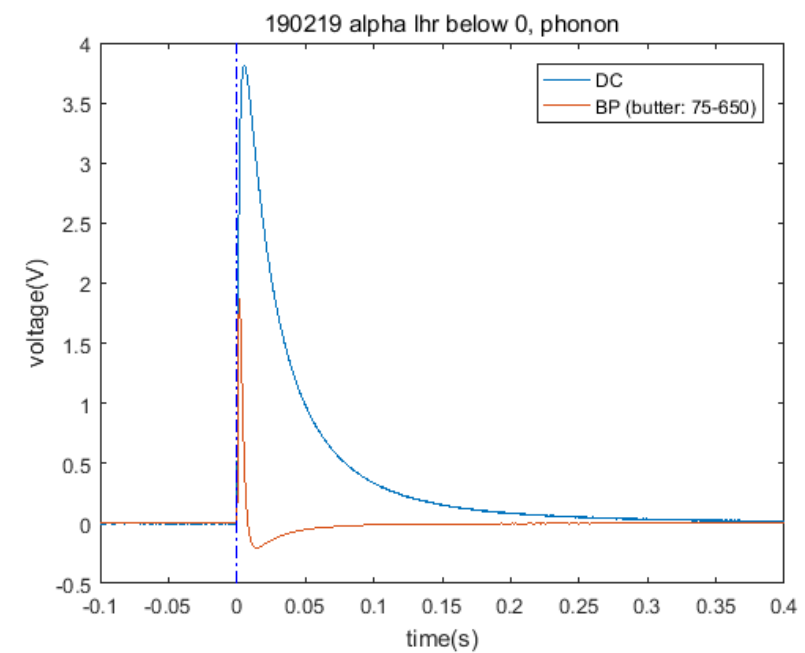
RODY scatter plot: light/heat < 0 problem



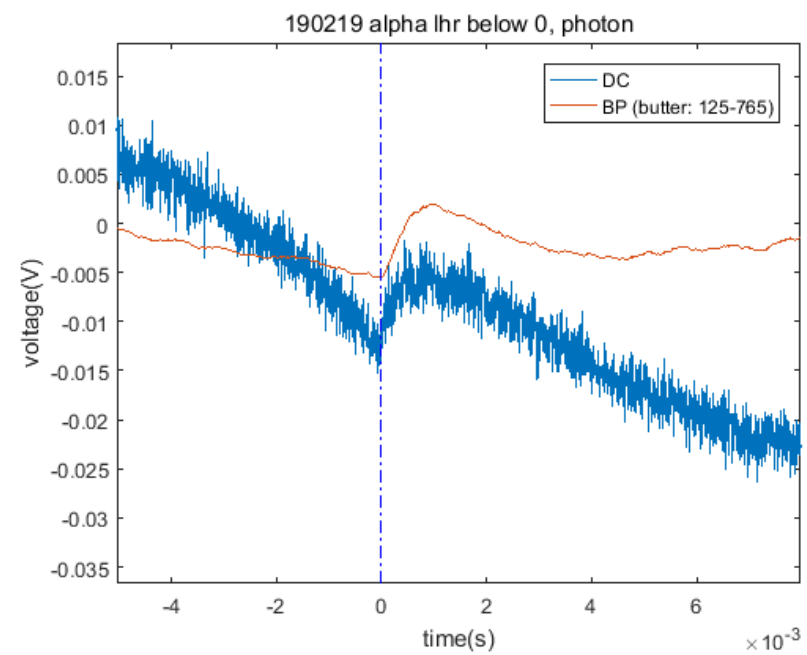
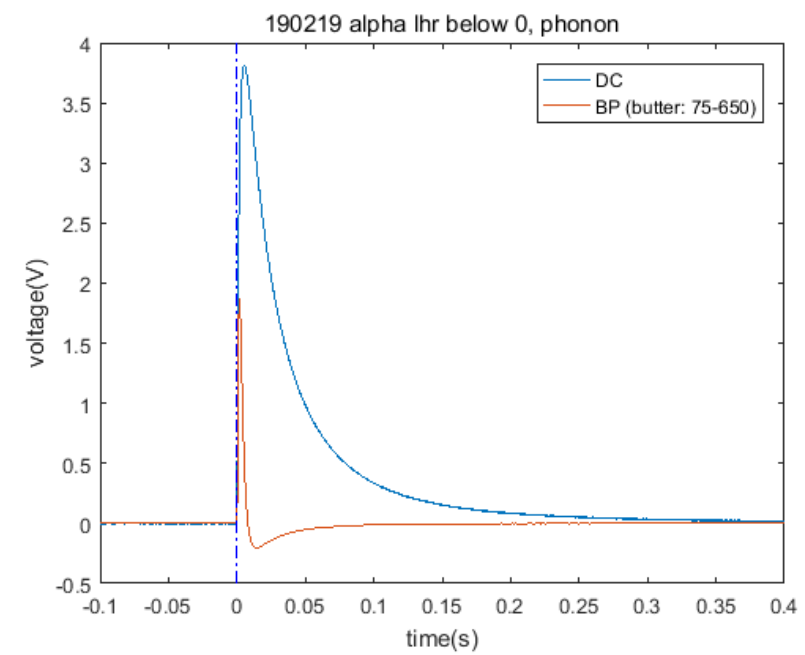
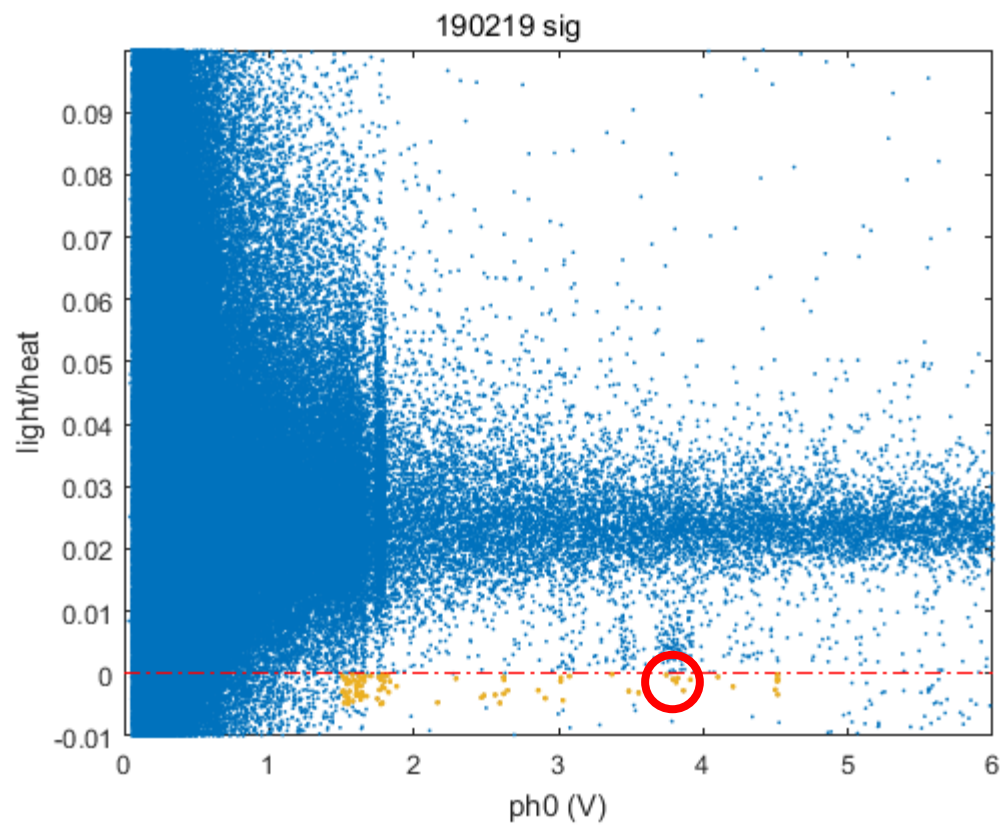
- By directly measuring pulse height
- No bandpass filter
- Some events belonging to alpha/gamma have ZERO or NEGATIVE LIGHT pulse height.

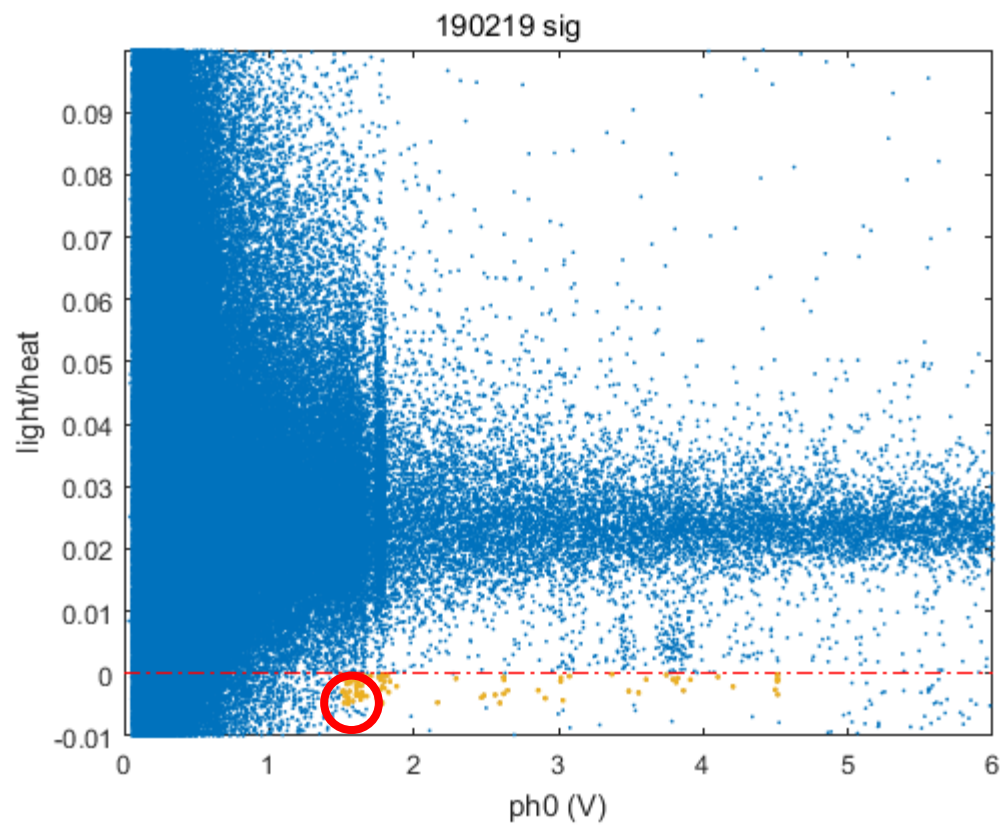


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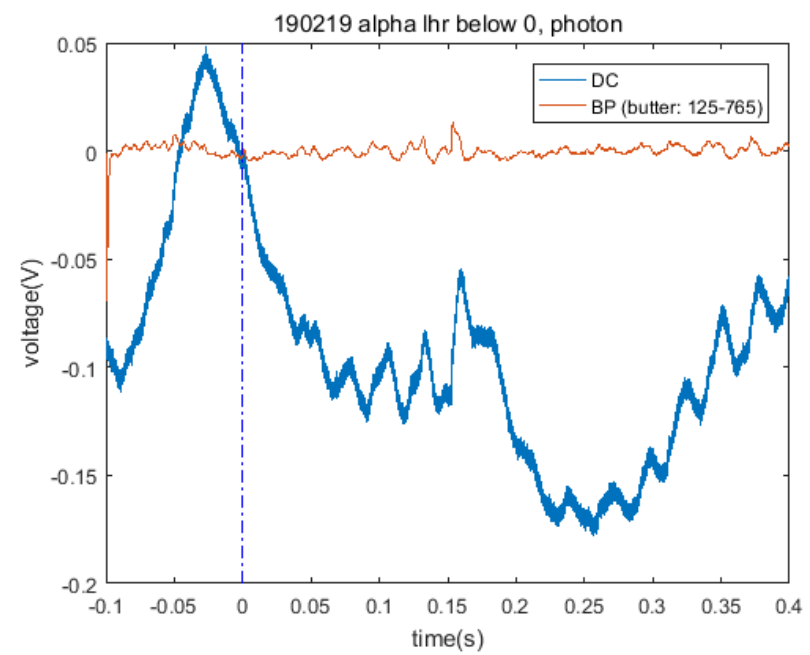
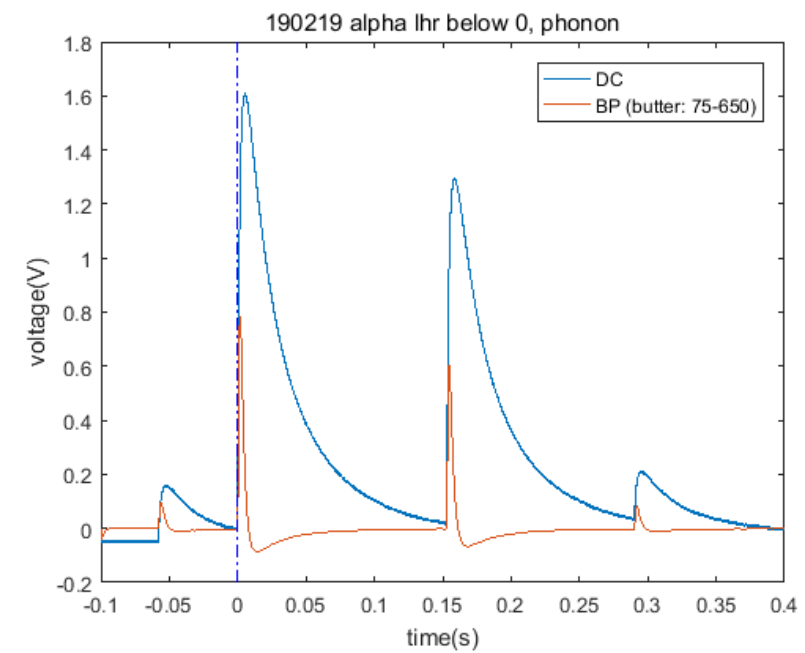


Weekly Report

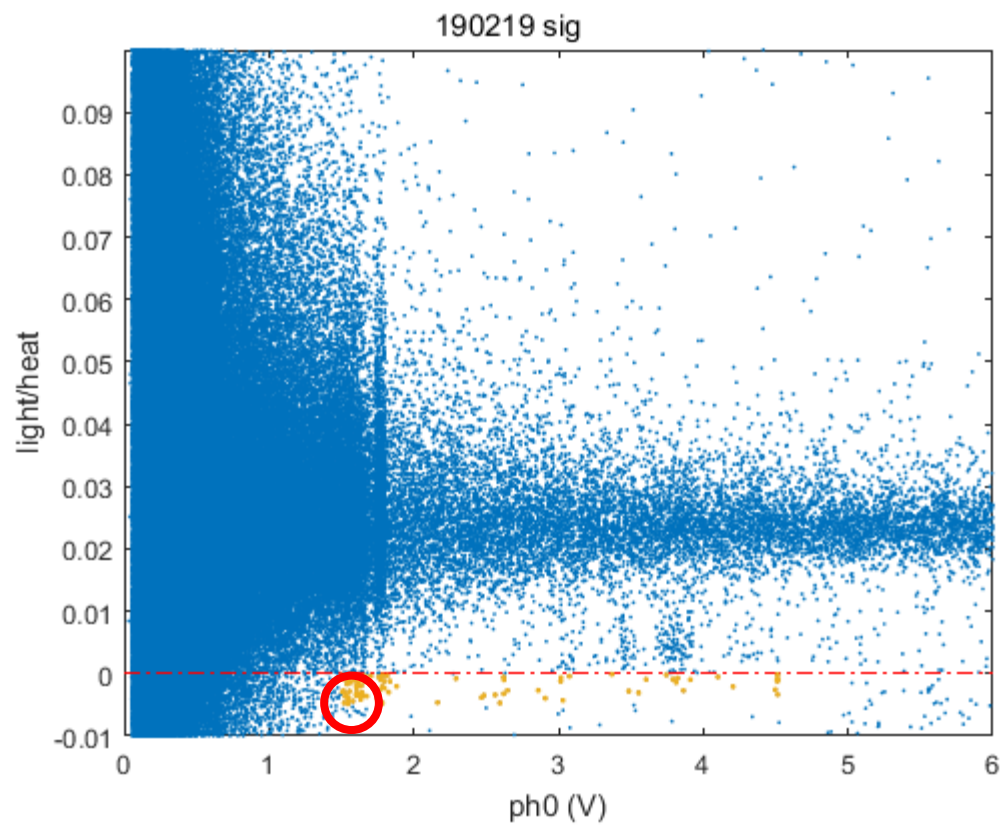




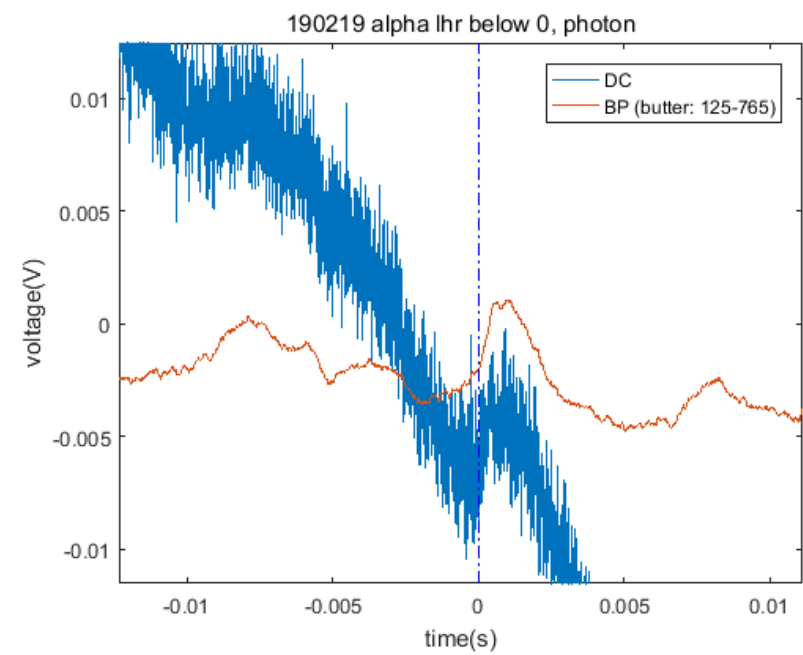
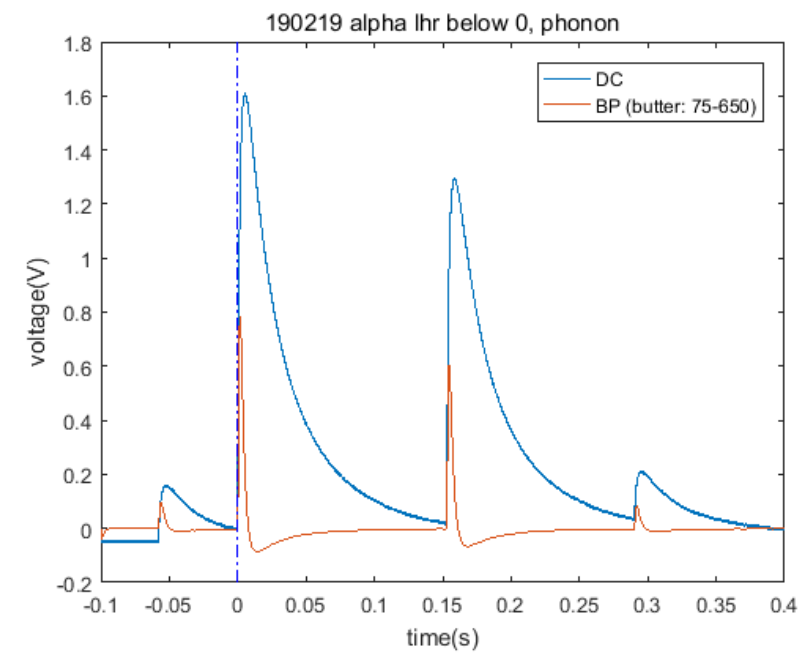
2019-06-03



Weekly Report

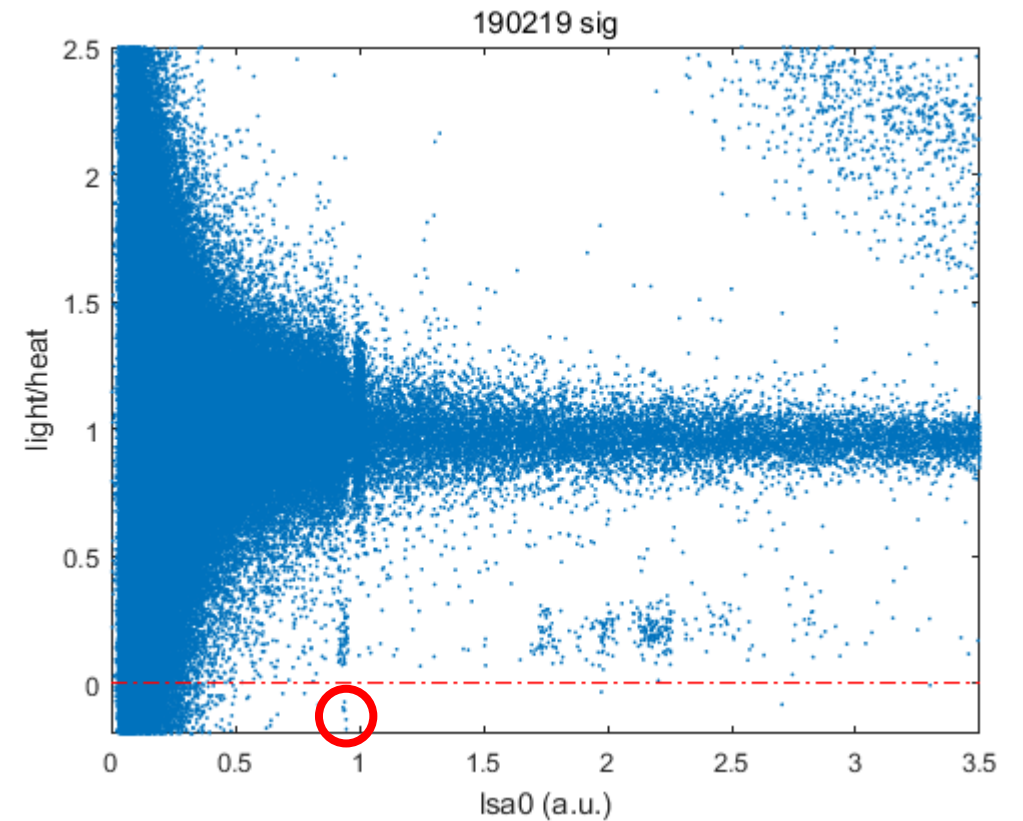
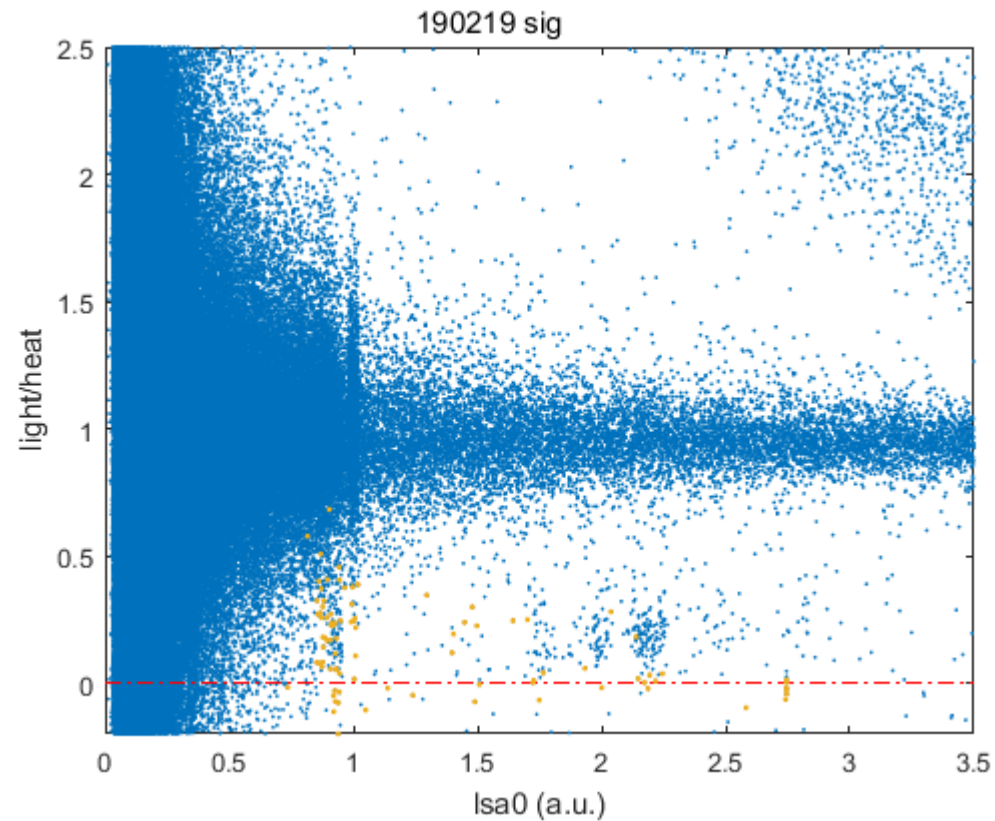


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Weekly Report

RODY scatter plot: light/heat < 0 problem



RODY scatter plot: light/heat < 0 problem

