

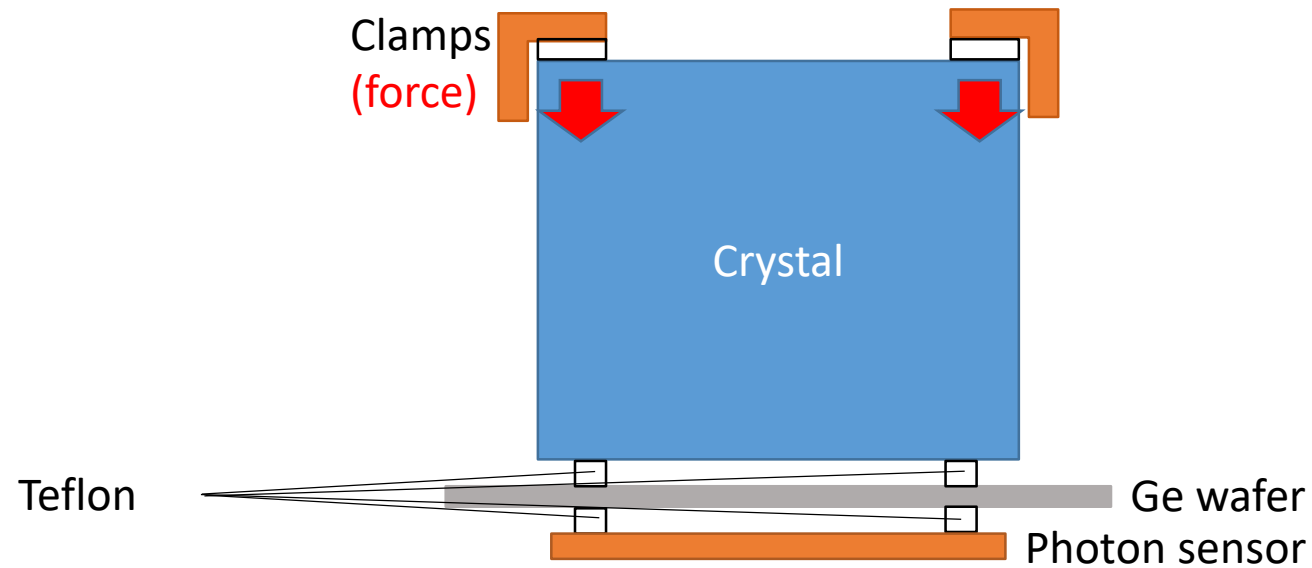
# Weekly Report

2019-06-10

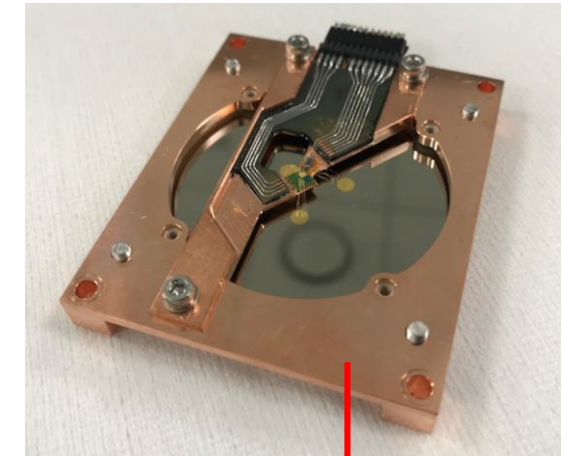
Kim, Hanbeom

# Detector Design Improvement (plan)

- New idea:

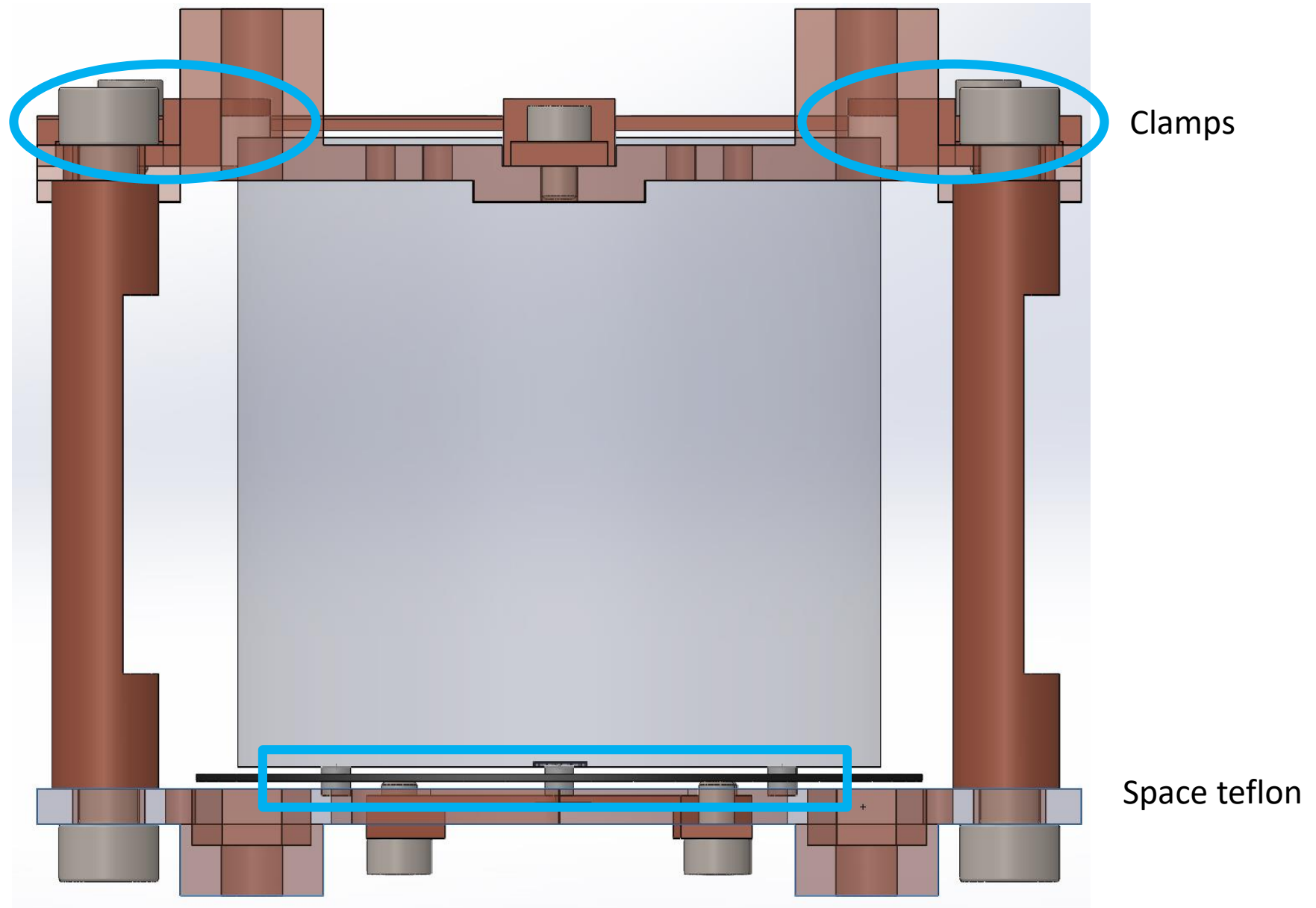


- Goal: reduce photon signal noise by vibration

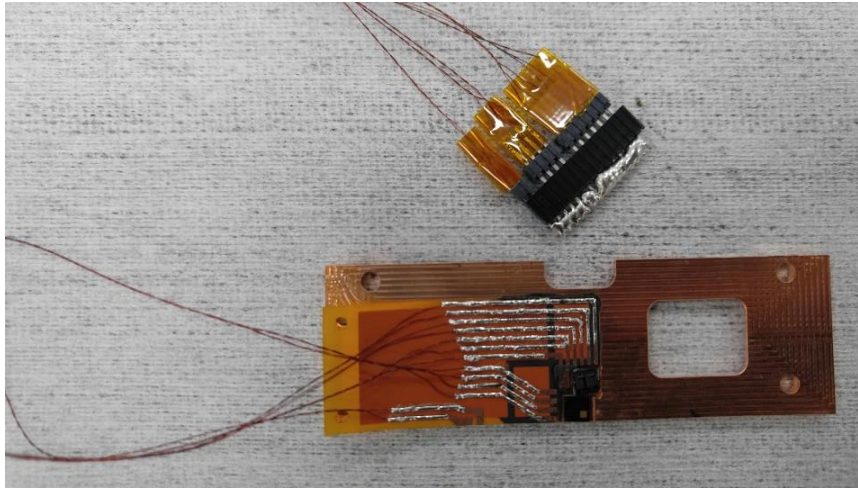


Get rid of this part  
(minor goal: Cu  
mass reduction)

# New detector module design - 190520



# New detector module design - sensors



## Phonon:

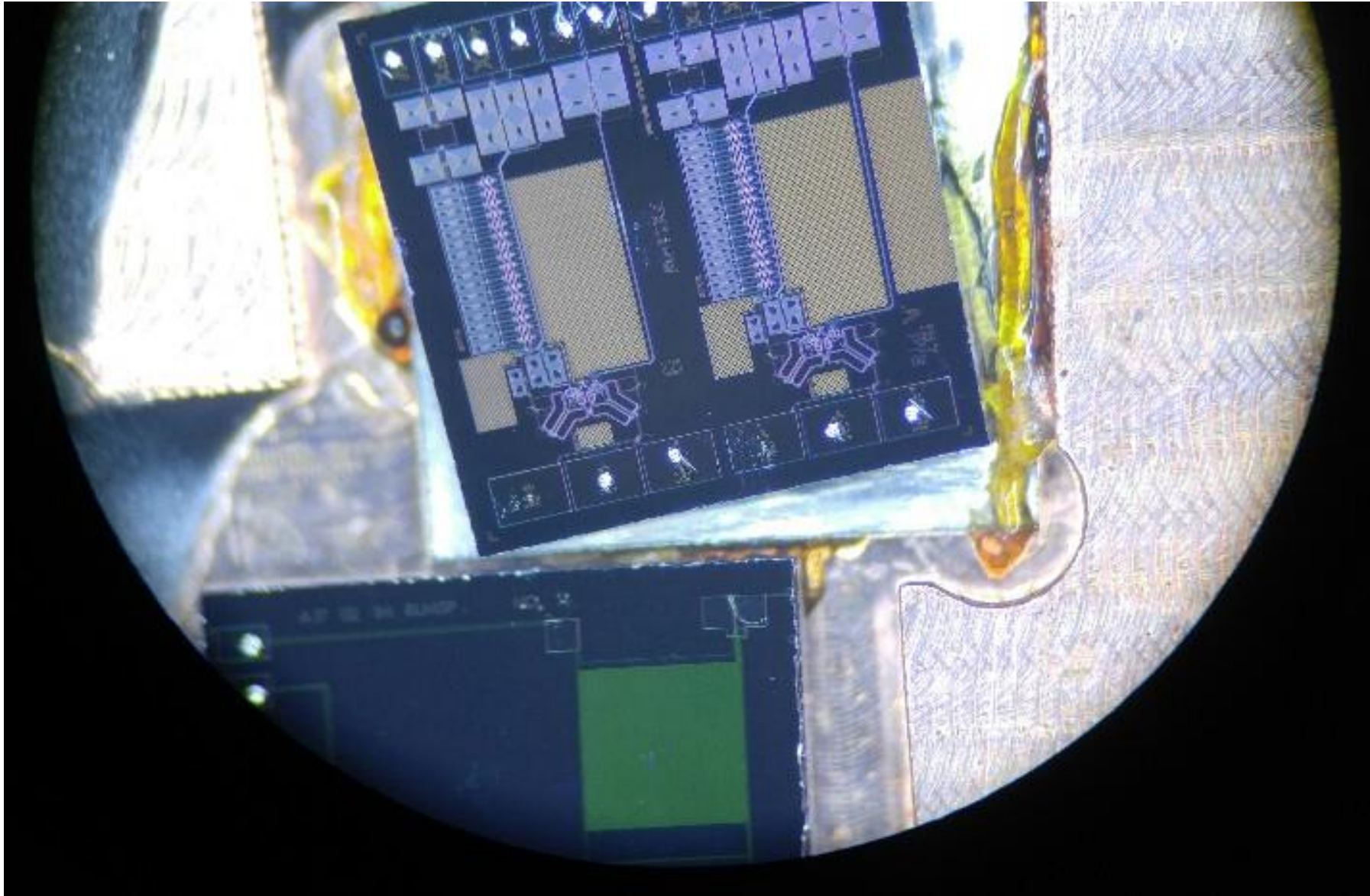
- NbTi Wiring & PCB finished
- Chips attached
  - SQUID: PTB (M17)
  - MMC: Ag:Er 1 mm × 1 mm
  - Need Al wiring for 4K test



## Photon:

- NbTi Wiring & PCB finished
- Chips not attached yet

# New detector module design - sensors

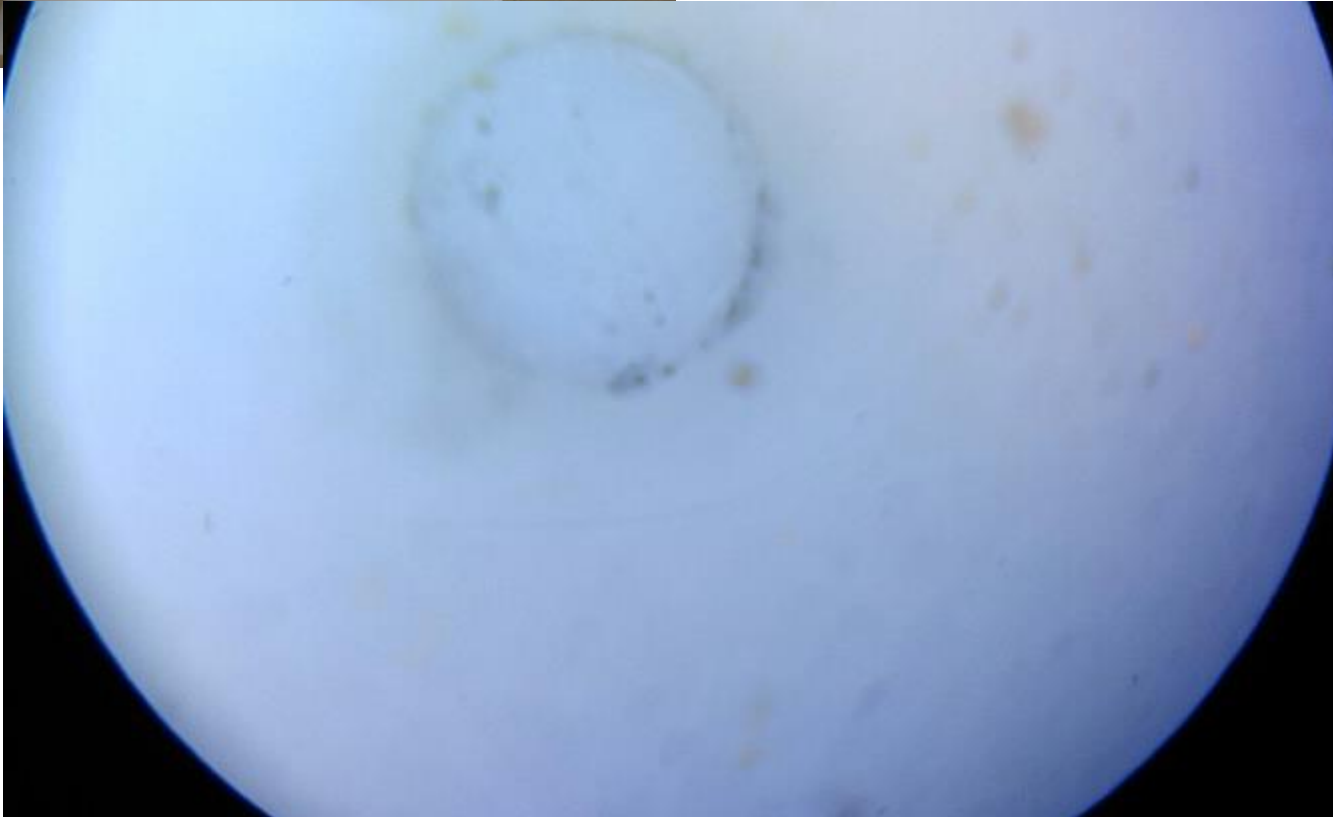




# New detector module design – space teflon



Teflon sheet: 0.5 / 1.0 mm thick

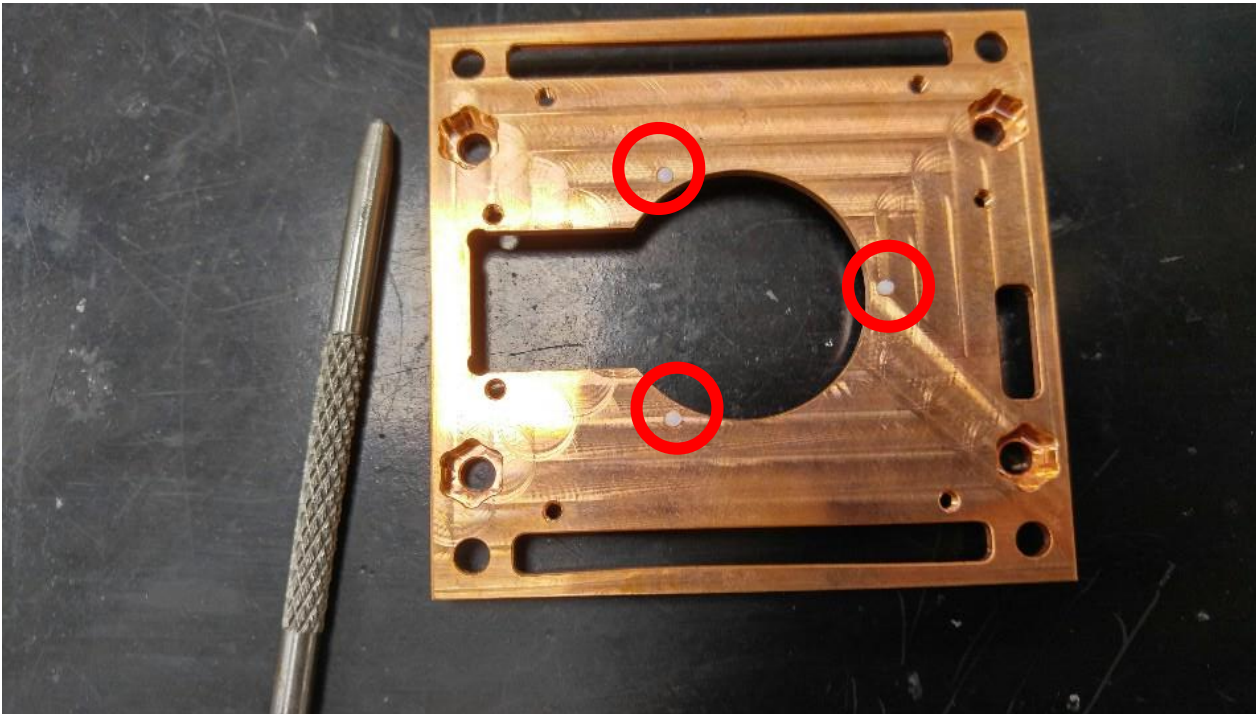


Been washed

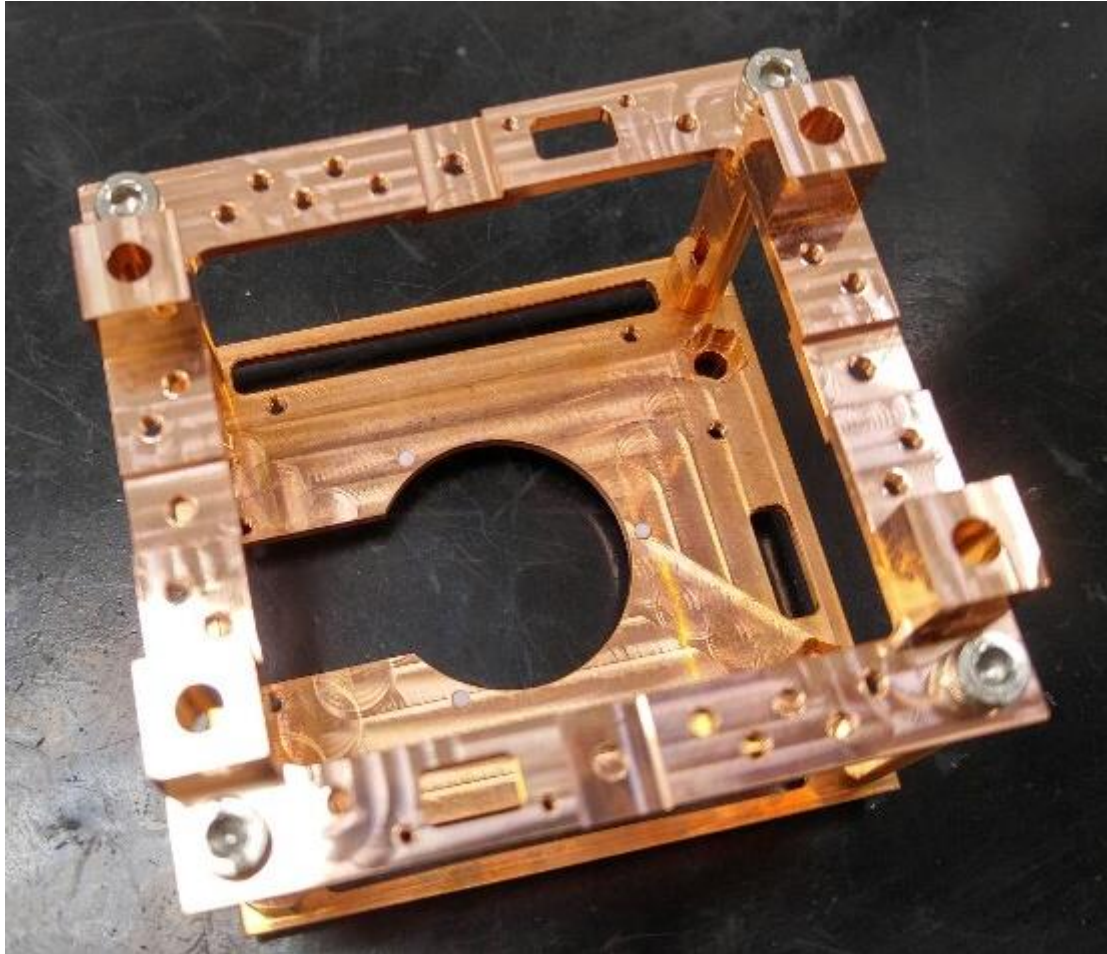
# New detector module design – space teflon



Teflon sheet: 0.5 / 1.0 mm thick



# New detector module design - assembly



Next: assemble with wafer, clamp & crystal



## New detector module design – further plan

- Attachment of MMC & SQUID + Wiring - Almost done
- 4K Test
- Assembly of detector including clamp, wafer, and crystal – plan: to finish in this week
- Test on RODY (refrigerator at IBS) – plan: to start within next week (ASAP)
  - With LMO test (being pr