

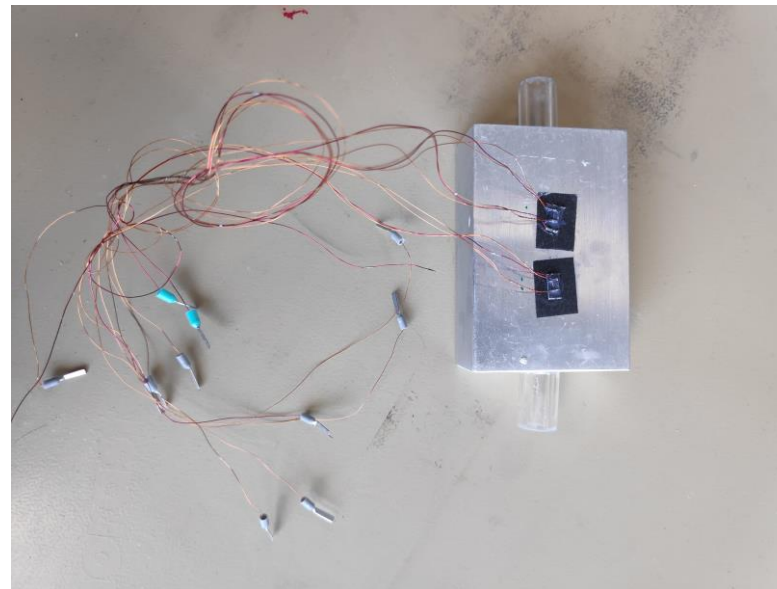
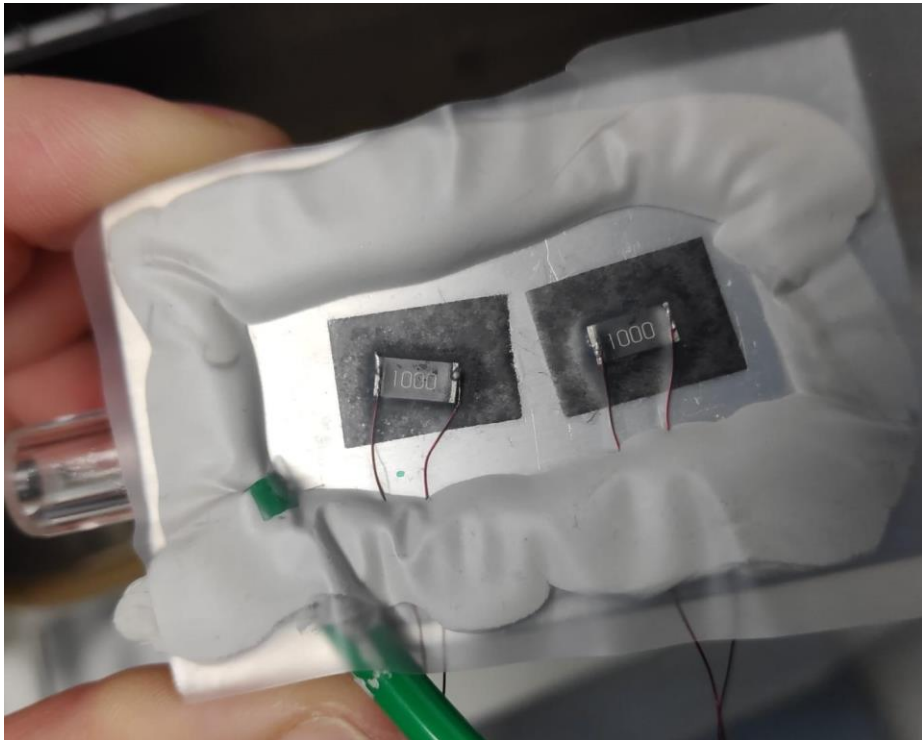
# Content

- Thermal conductivity measurements of materials used for samples
- Air cooling measurements

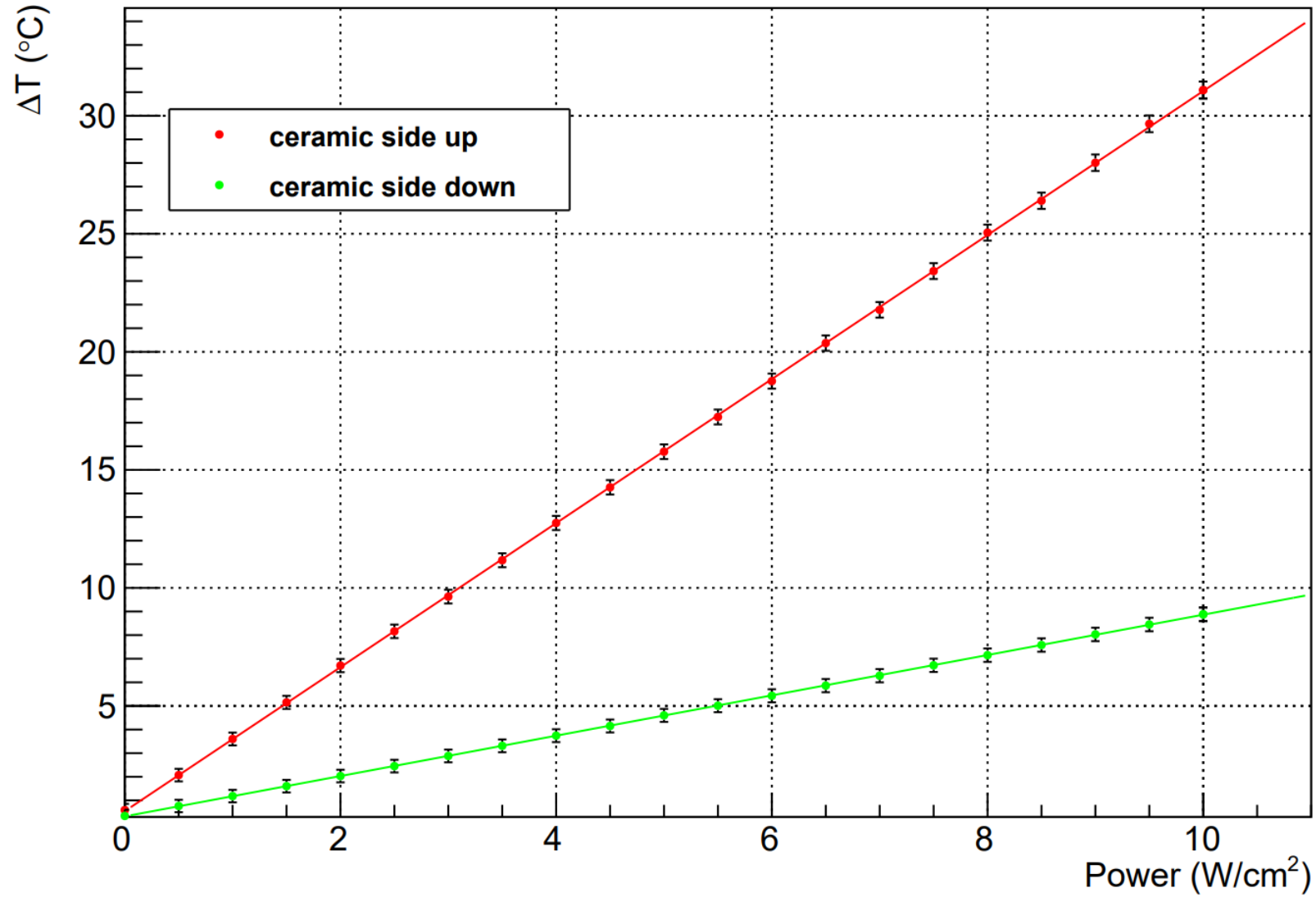
# Thermal conductivity measurements

4 combinations with carbon fleece 20g/m<sup>2</sup> and 8g/m<sup>2</sup>:

1. Carbon fleece epoxy glue, heater epoxy glue
2. Carbon fleece epoxy glue, heater TC glue
3. Carbon fleece TC glue, heater epoxy glue
4. Carbon fleece TC glue, heater TC glue

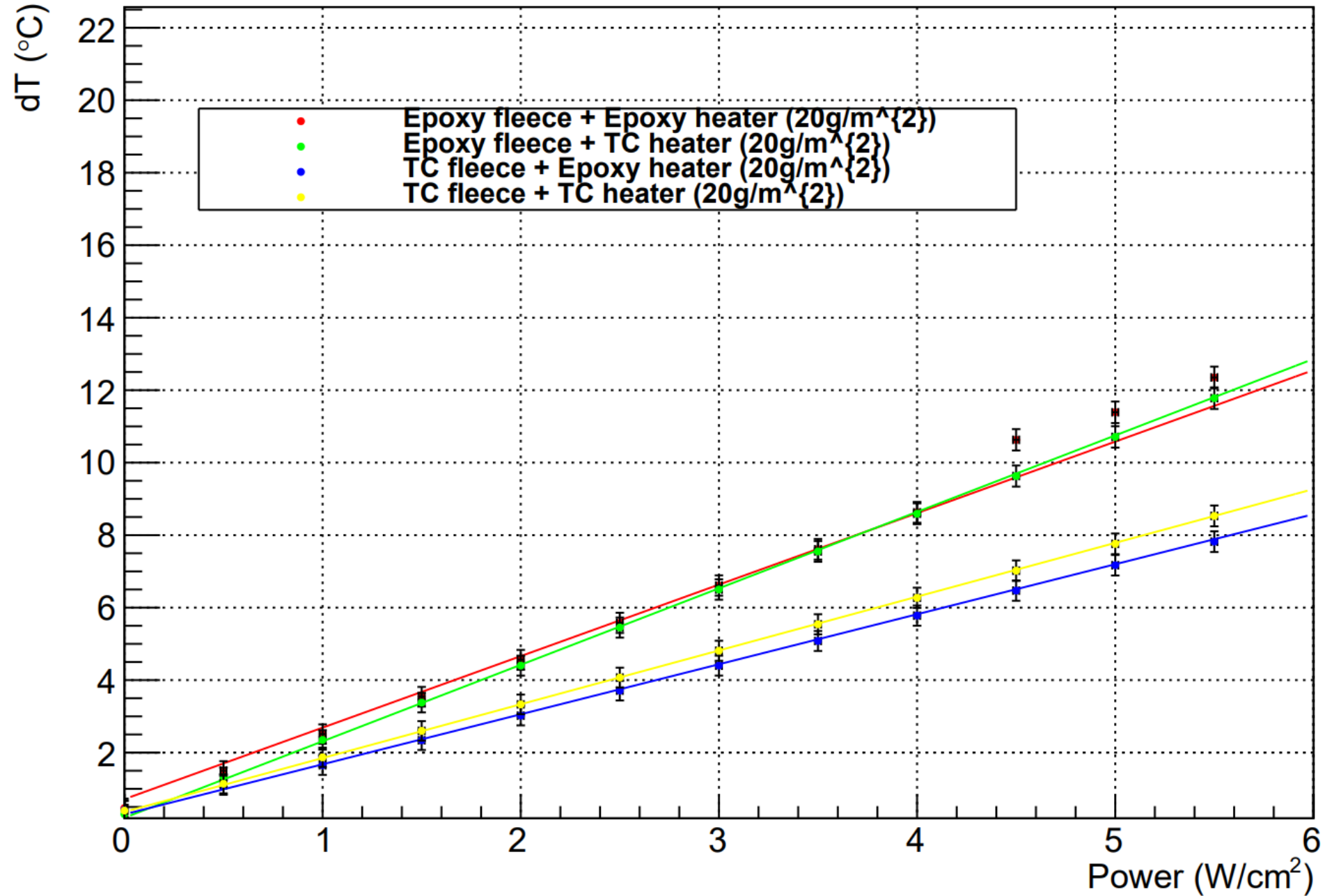


Thermal conductivity of SMD's ceramic & non-ceramic side + TC glue

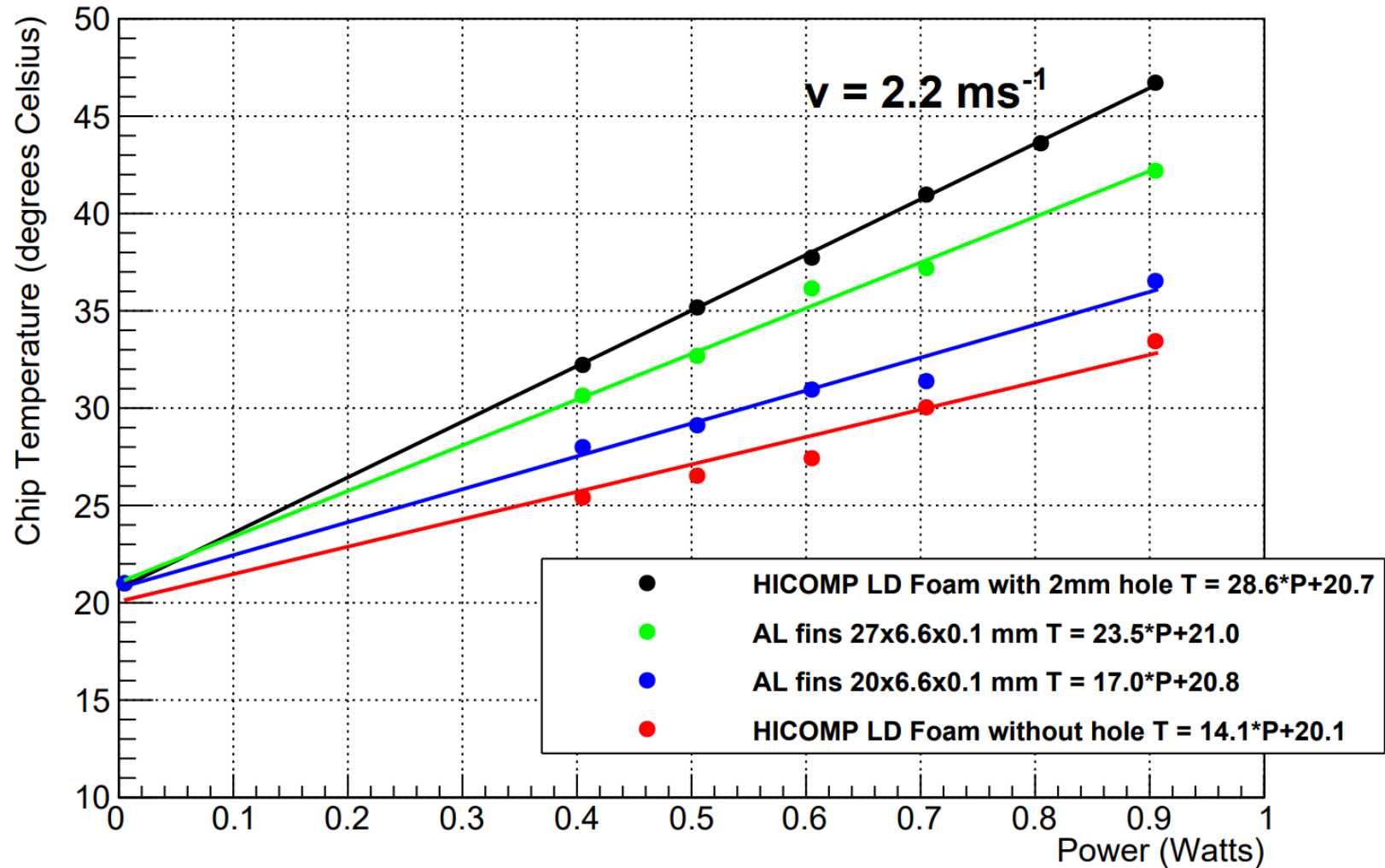


$$dT_{\text{down}} = 3.05x + 0.54$$
$$dT_{\text{up}} = 0.85x + 0.32$$
$$k \sim \frac{1}{dT}$$

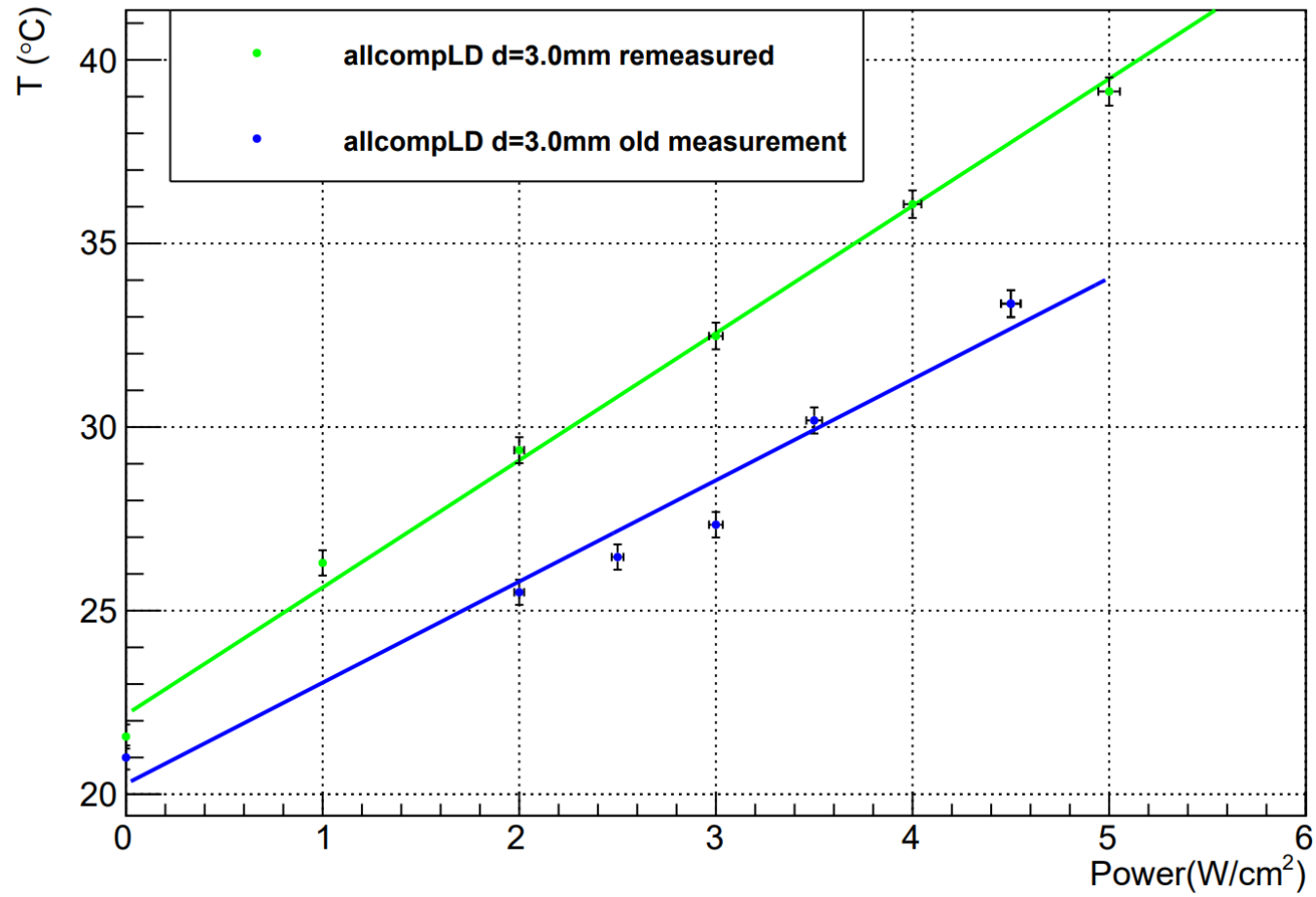
Thermal Conductivity measurements of glued carbon fleece 20g/m<sup>2</sup>



# Previous Measurements

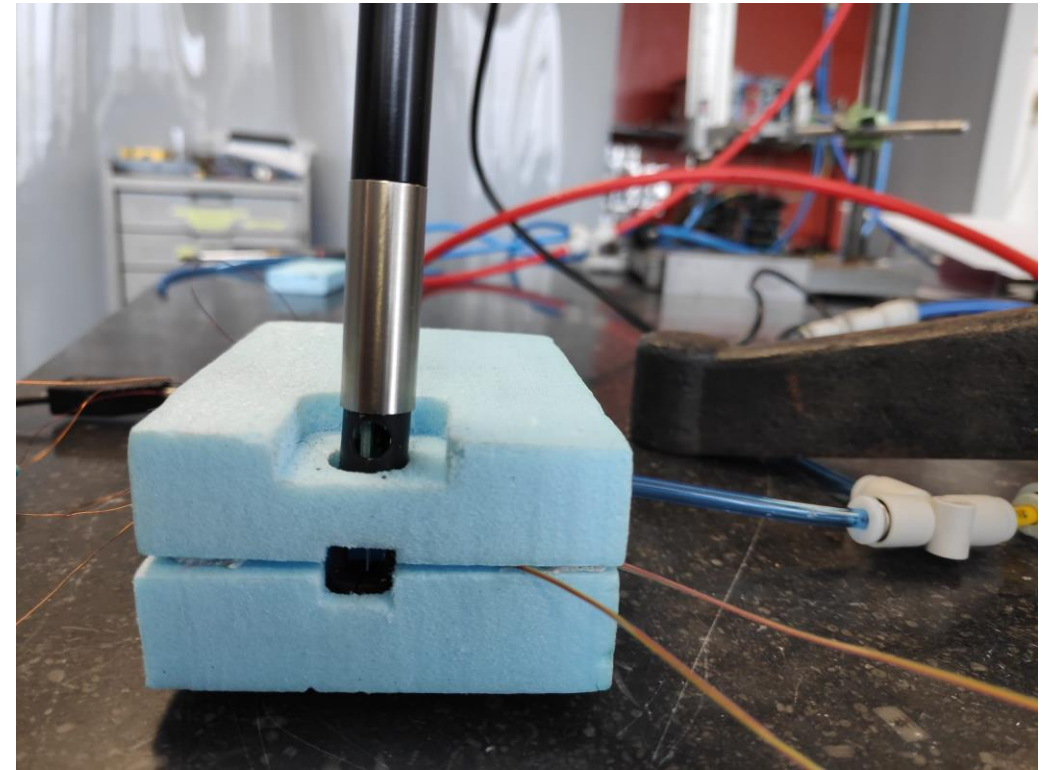
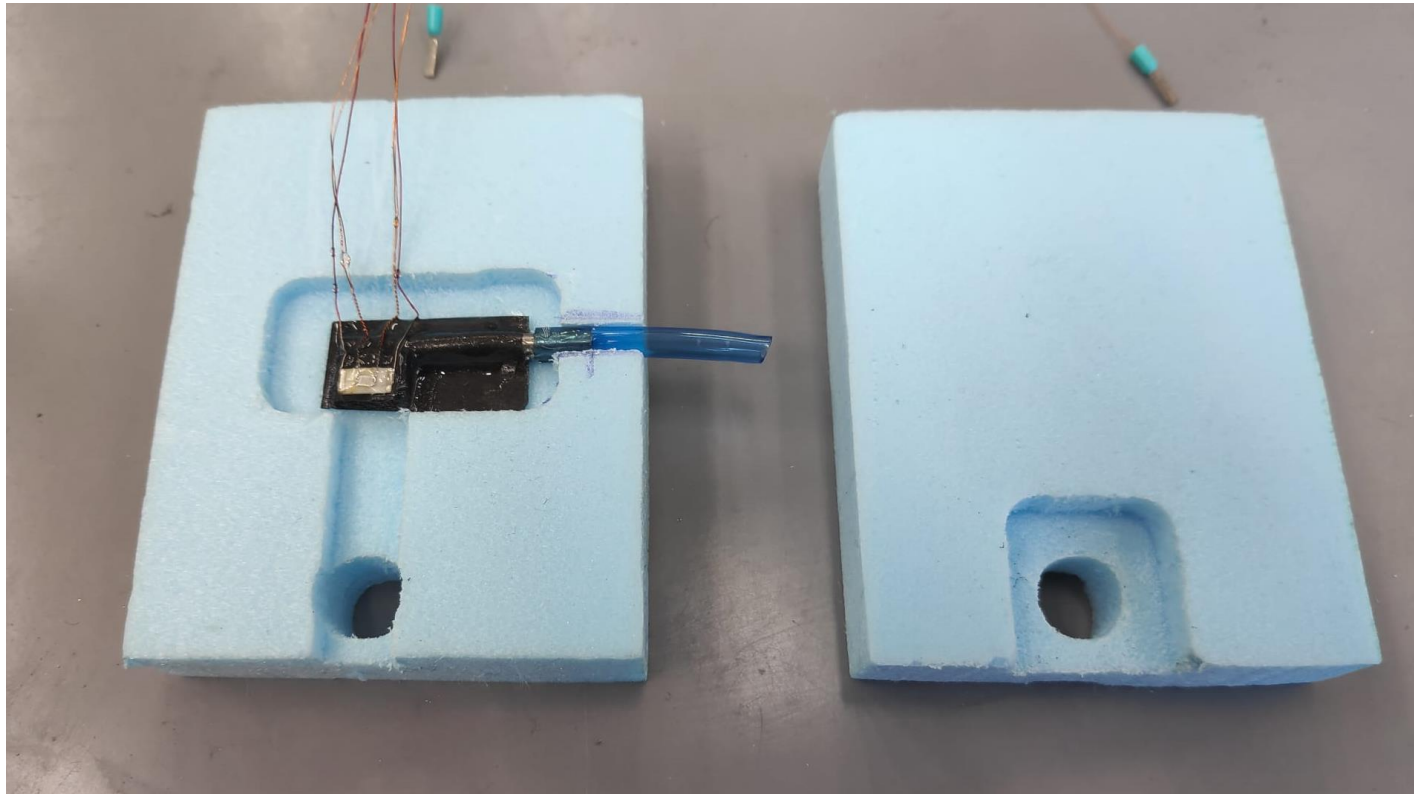


### Allcomp LD blocks old + new measurements

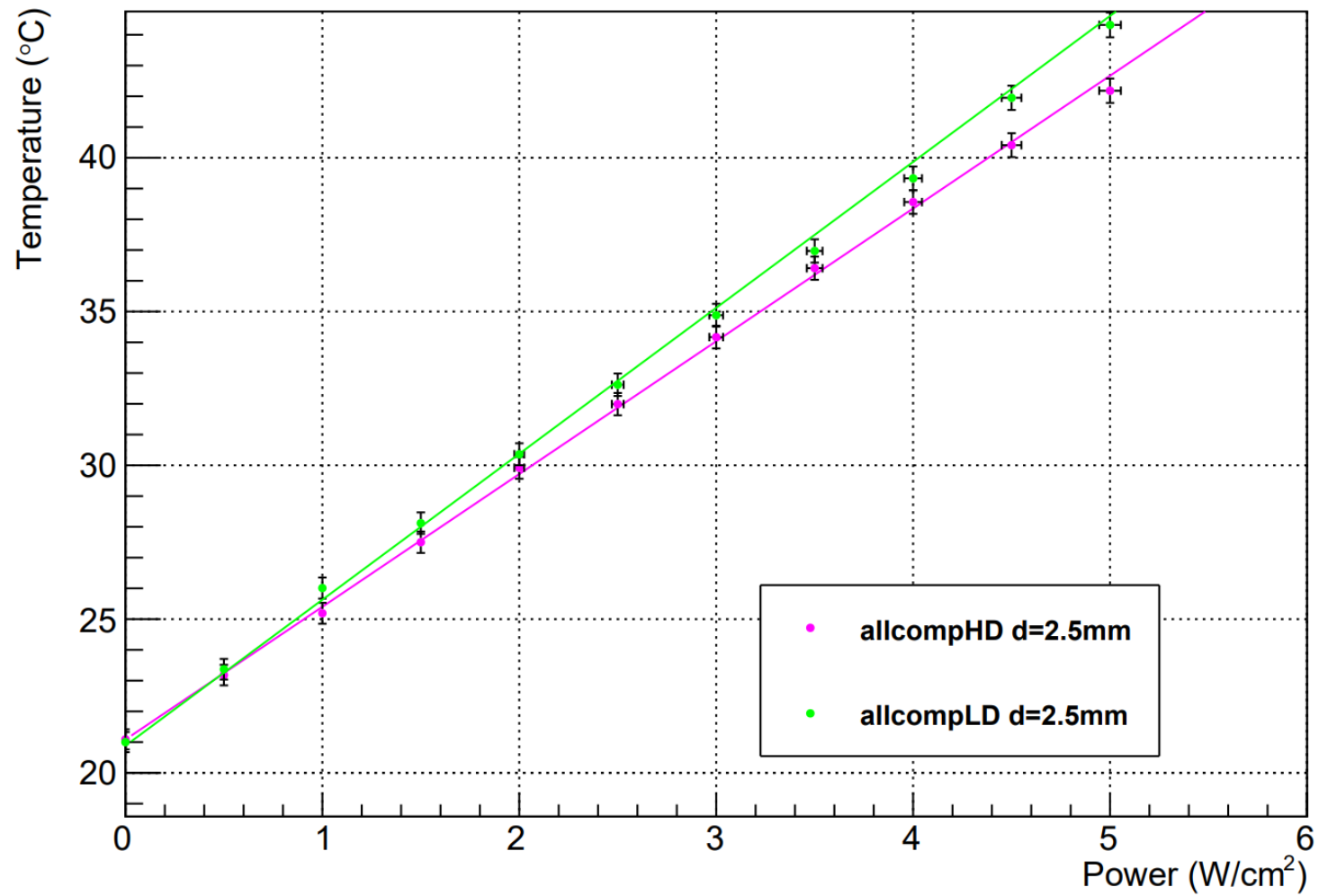


2.2m/s

# Block dummy peripherals



### allcompHD & allcompLD at 2.2 m/s



•  $dP = 0.022$  bar



# Outlook

- New kind of air supply



