# - CBPM3 -Temperature vs fan speed

**Antoine** 

CESR instr. meeting - Sept 6<sup>th</sup>, 2024

#### **Bench test**

Goal: measure CBPM3 prototype temperature as a function of fan speed

Module: sits on Will's bench (hostname: ctacf146)

Heat source: self-heating

#### **Iterative procedure:**

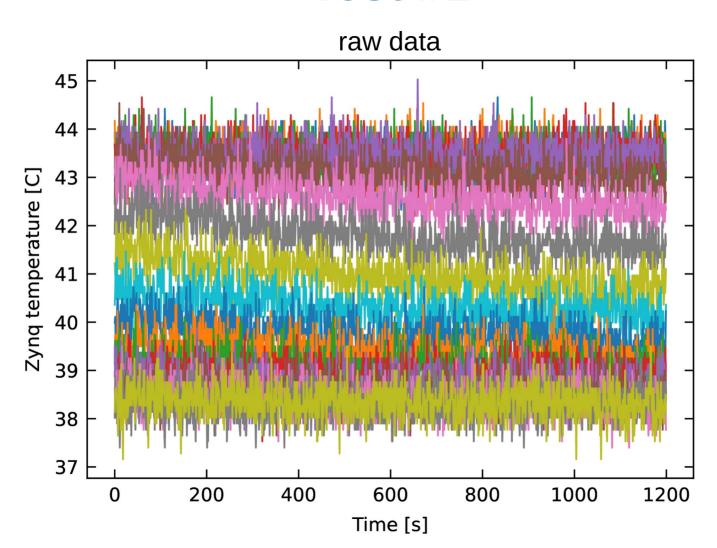
- set fan speed (in percent)
- give temperature time to settle
- poll Zynq and AFE temperatures every second while settling

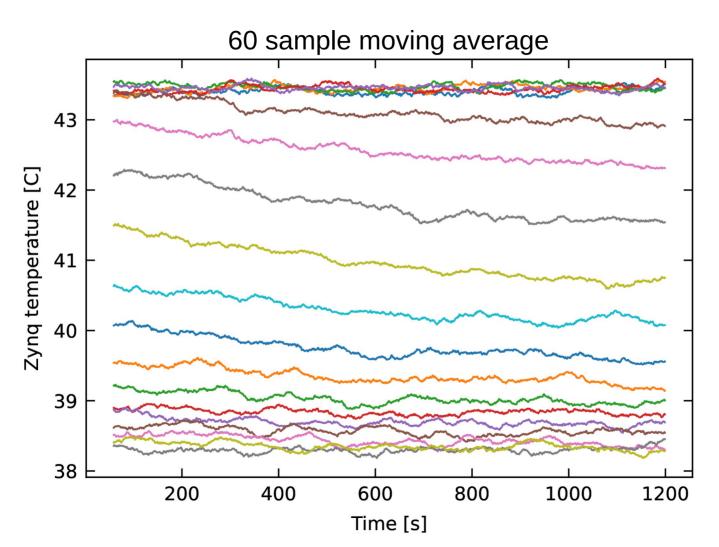
Repeat, stepping through fan speeds (from 5% to 95%)

Starting point: temperature stabilized at 5% fan speed

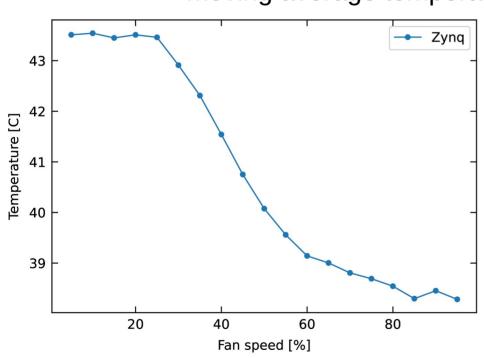
Fan speed: from 5% to 95% in steps of 5%

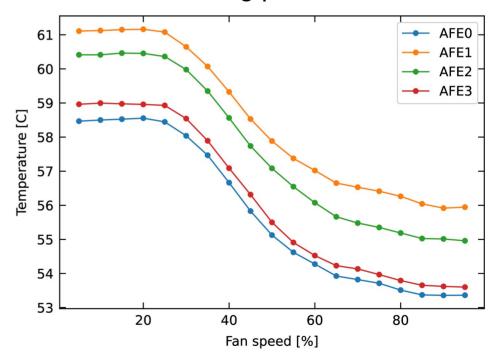
**Settling time**: 20 minutes at each fan speed



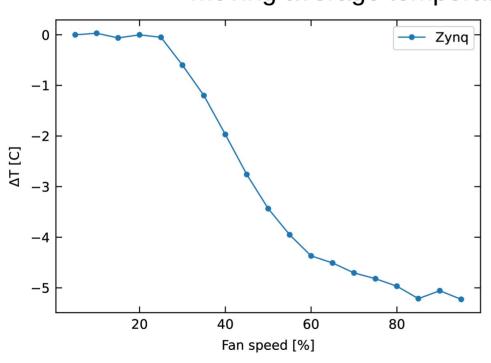


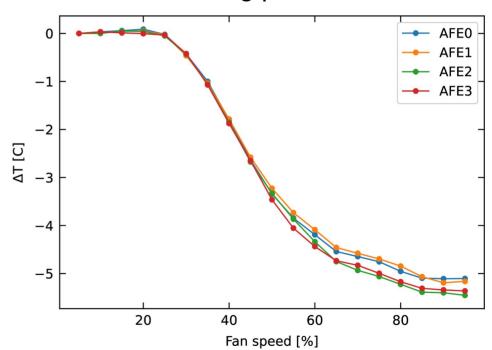
#### moving average temperature at the end of settling period





#### moving average temperature at the end of settling period





## Extras