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Summary report of work at CERN

Jeff Nelson, Zubair Dar, Oscar Moreno
On behalf of W&M DUNE group at
CERN



WILLIAM & MARY

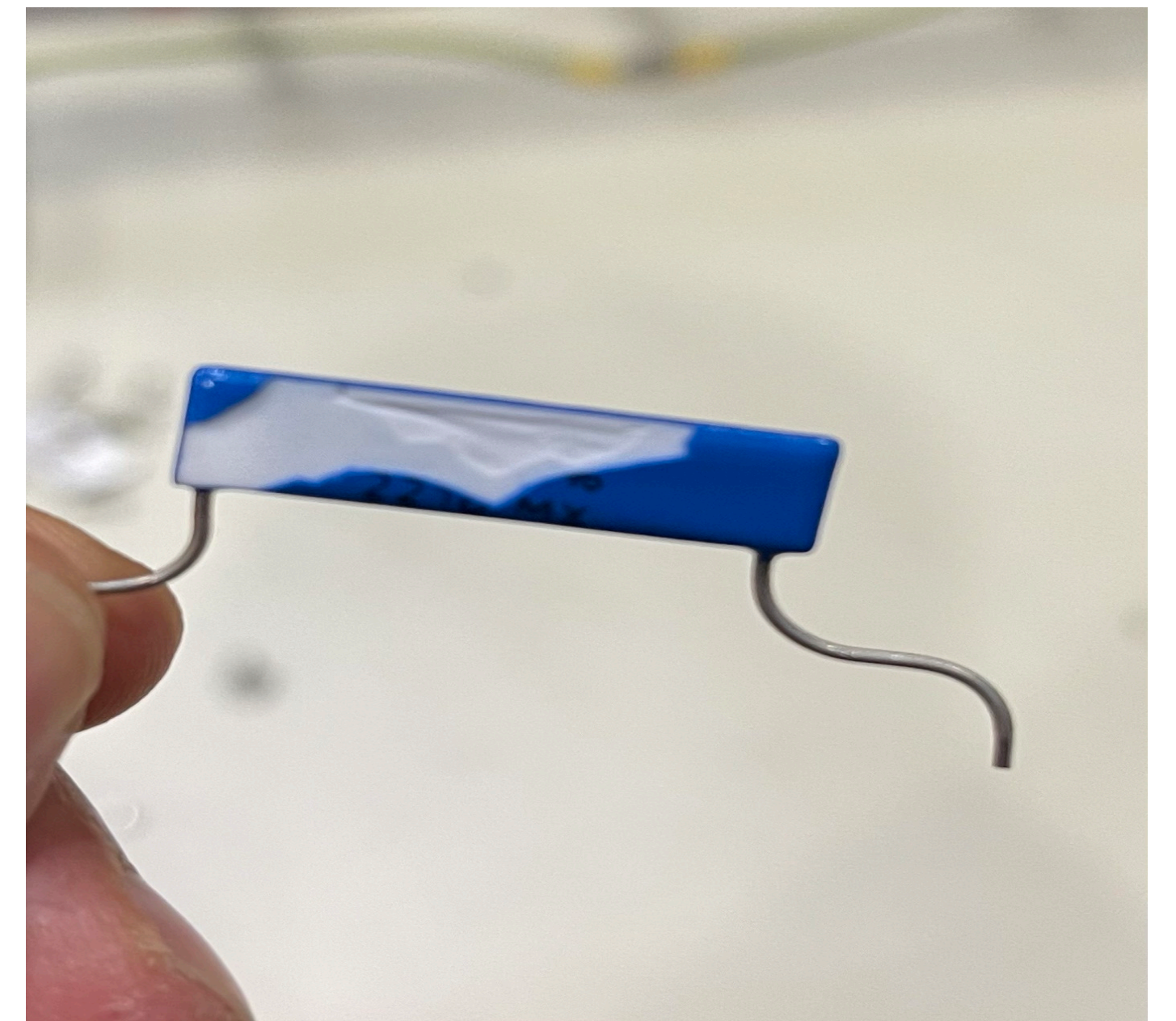
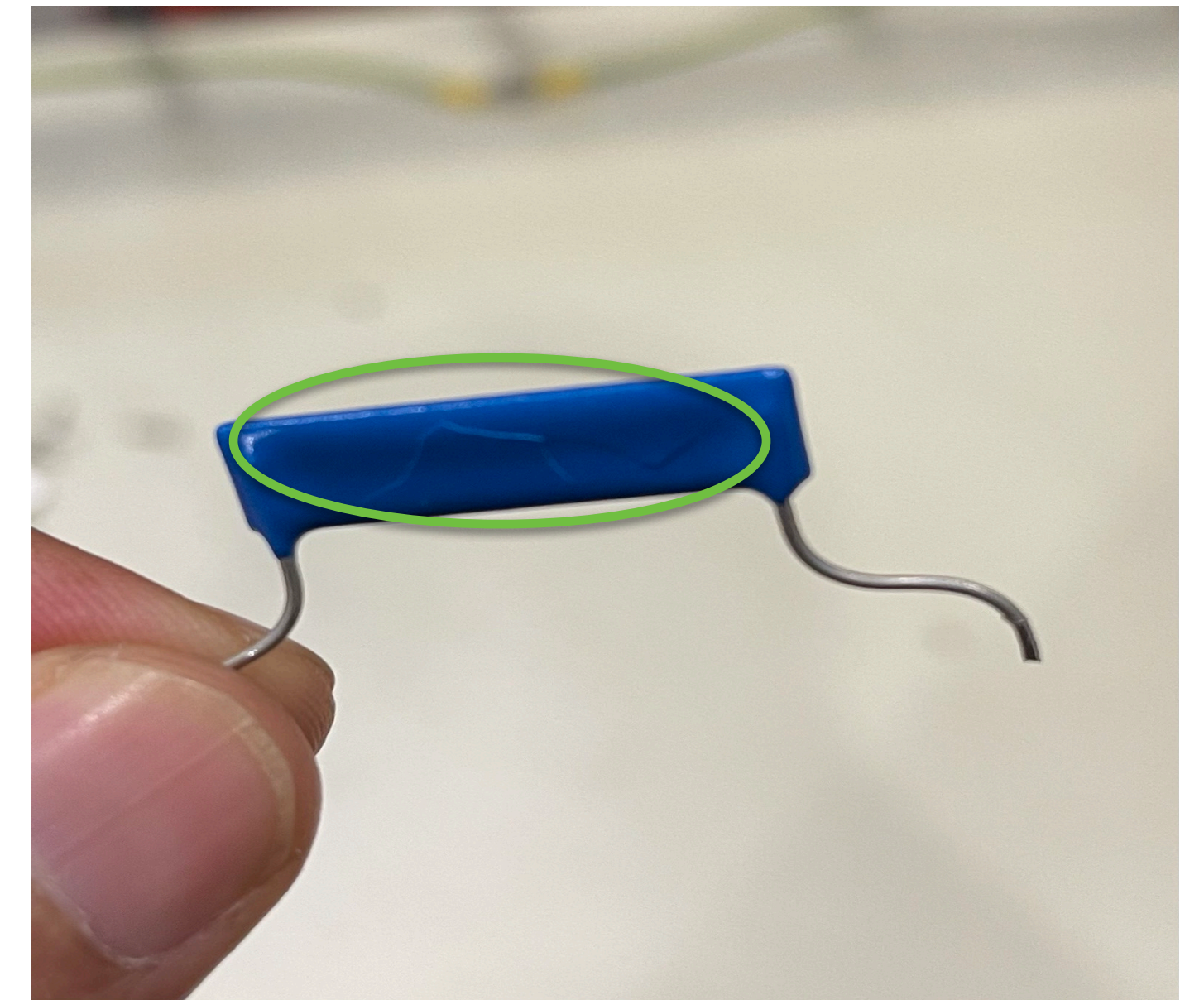
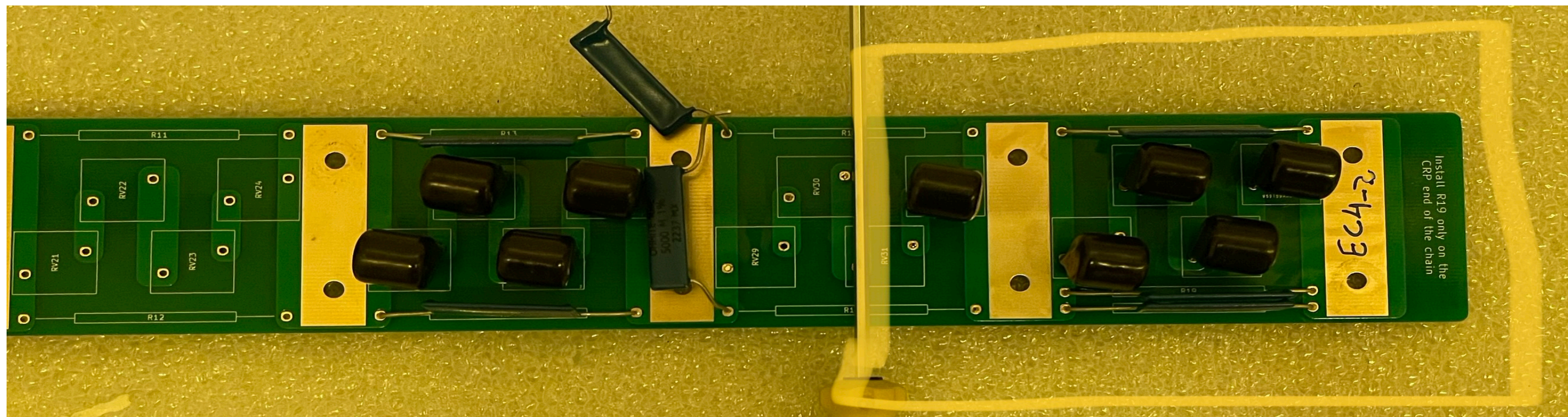
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Last week summary:

- A. Completed testing W&M boards in Liquid Argon
 - A. Out of 60 boards, two of the resistors showed cracks in Liquid Argon
 - B. One broke completely and another just showed a thin hairline fracture
 - C. The resistance measurement helped to identify the fracture
 - D. Both the resistors are replaced with good ones and boards are tested again

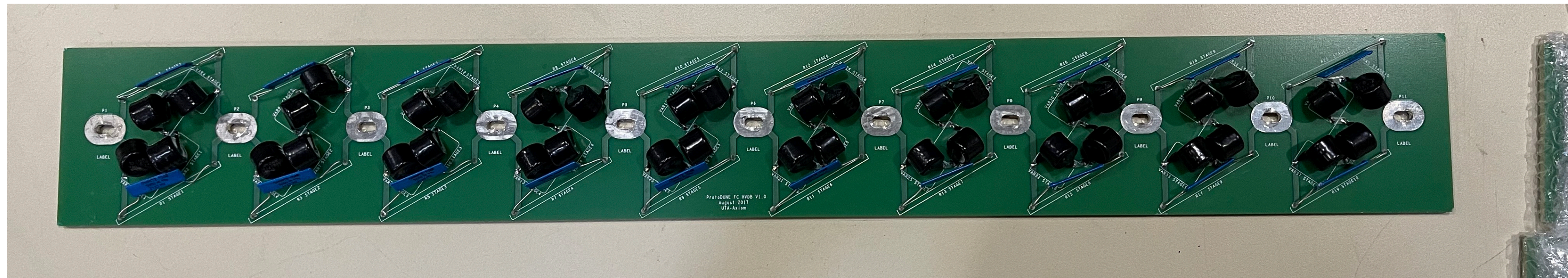
End chain boards:

- A. Modified the size of boards to just one gap instead of three gaps
 - A. All of them are cut and kept in W&M box in the clean room



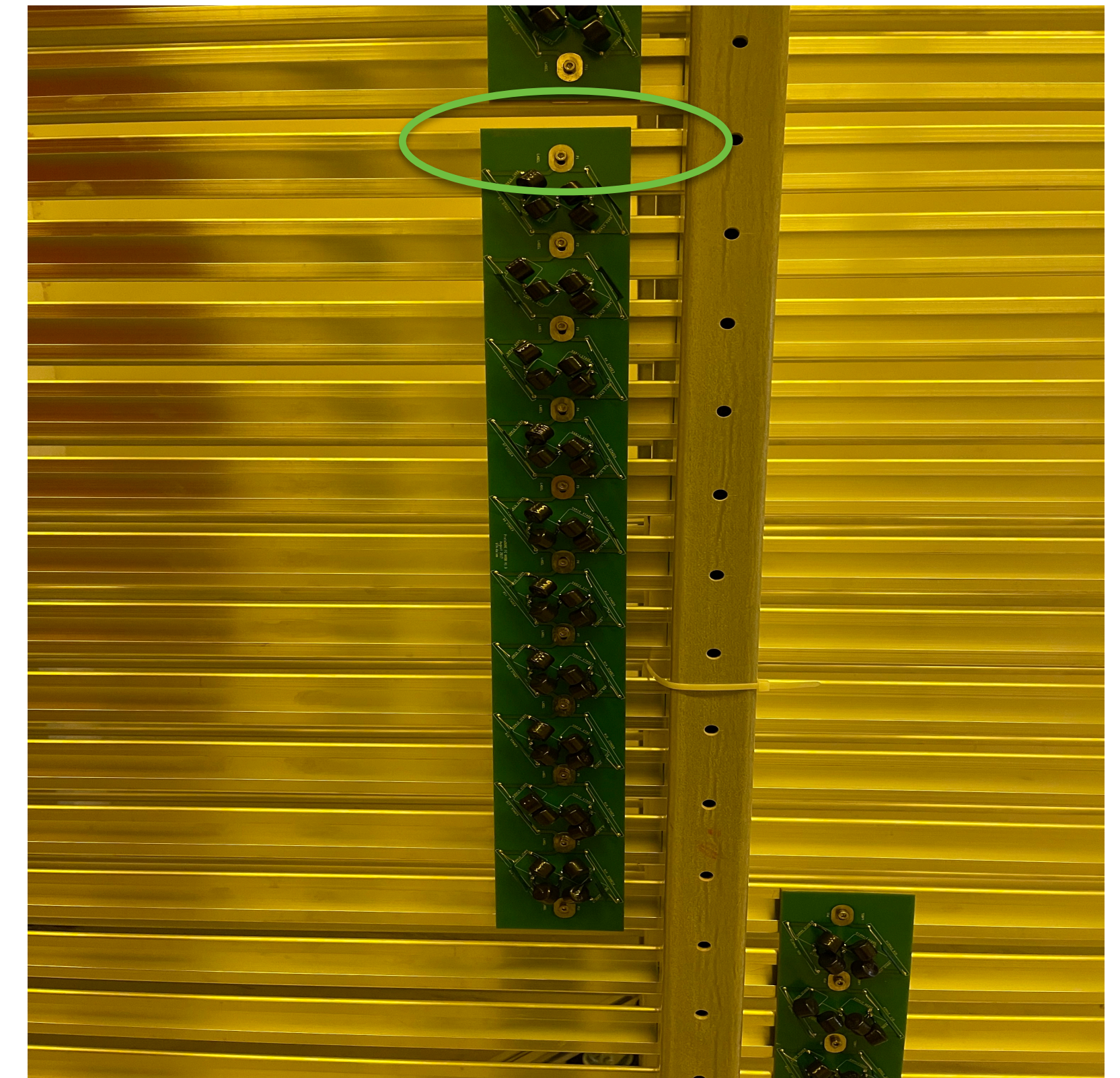
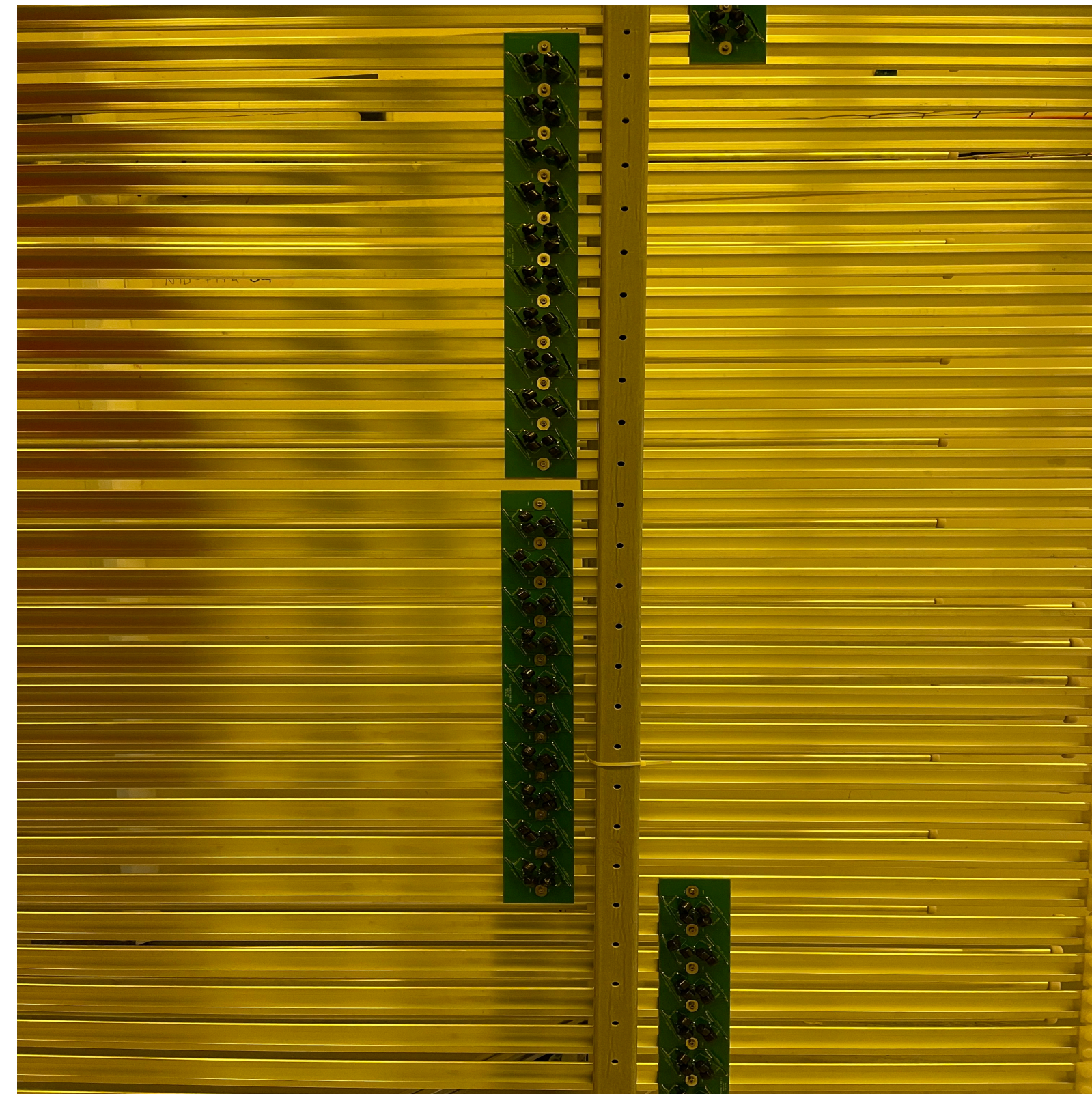
Boards from UofA Texas:

- A. Received the larger boards from UoAT
- B. Tested 10 of them in Liquid Argon
- C. All the boards seem to be working without any fracture reported on resistors
- D. Some of the varistors developed fractures
- E. Dipping time was around 5 mins per board avoiding drastic temperature difference



Installation of larger boards on thick panel:

- A. Four of the boards are installed on the thick panel
- B. Kept a gap between bottom two and upper two
- C. May need a tool to fix the position of slip nuts to help smooth the process of installation for the larger boards
 - A. A little difficult to fix the slip nuts on the profiles
- D. Careful while fixing nuts because boards slide downwards and doesn't center properly.



Summary:

- A. Boards from W&M ready and liquid argon tested
- B. End chain boards adjusted to one gap
 - A. Though we may need a little modification again
 - B. Discussed that with BO yesterday
- C. Boards from UofA Texas are ready and liquid tested
 - A. Didn't show any fractures on resistors but varistors did develop some.
- D. Completed three small profile panels and one big profile panel
- E. 12 small boards and 4 large boards installed on profiles/panels
- F. Many more to go.....

BackUp