

IFIC status report for the TB2025

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AITANA group at IFIC – CSIC/UV



VNIVERSITAT
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CORPUSCULAR



CSIC
CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS

ABRIL						
L	M	X	J	V	S	D
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14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

MAYO						
L	M	X	J	V	S	D
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5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

▷ **We are in the preparatory phase – smoothly progressing**

▷ **Jigs**

- **are validated**

▷ **Adhesive**

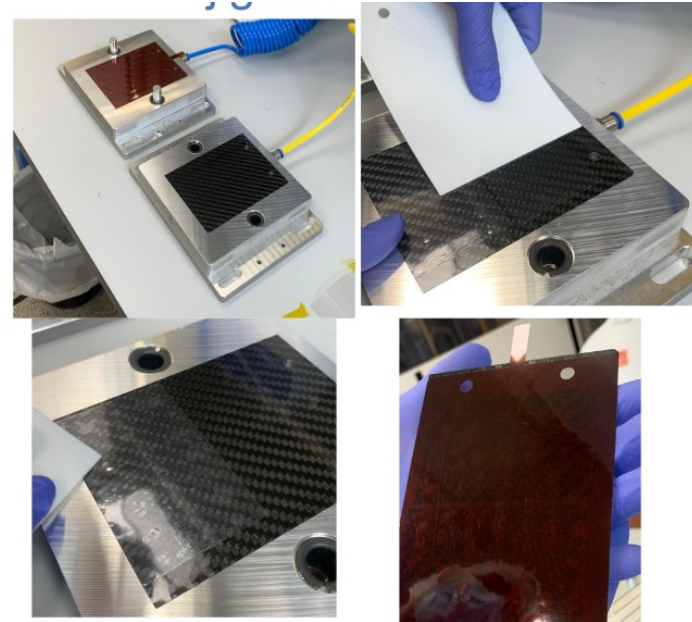
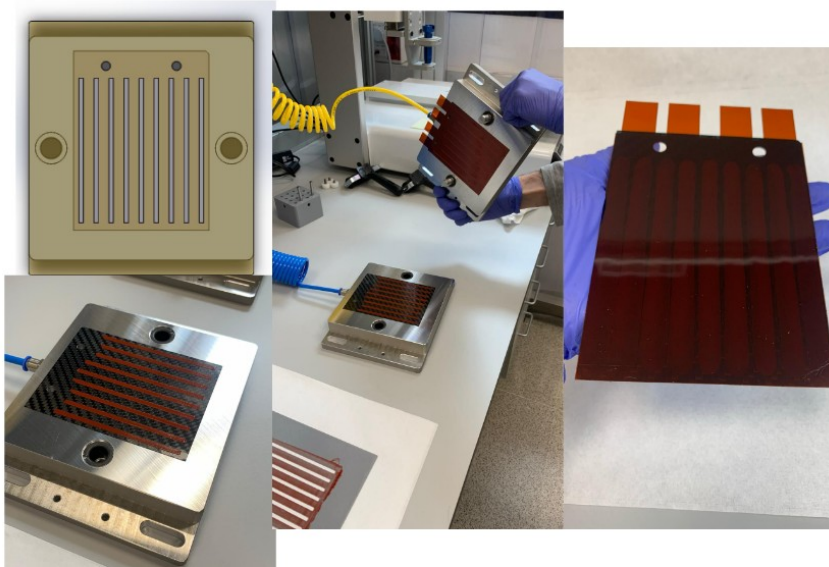
- **All bought.** We will also try the Monocomponent alternative for the conductive glue.

▷ **Sensors**

- All 20 from TAU are in the dry cabinet-
- **we need to clean** them with the plasma gun but: 1) the plasma gun is in the IFIC clean room, limited access to it and the personell; 2) the boxes that are used for transport are not optimal to keep the cleanliness.
- We will use the Hamamtsue envelopes but we have only 8 enveloppes.
- conclusion: **the cleaning progresses but slower that we expected.**

► Procedures for the glueing

- Carlos and Melissa are currently working on the optimization of the non-conductive layers of adhesive. Report to follow next week.
- Robot training will be re-optimized (or re-tested) this friday.

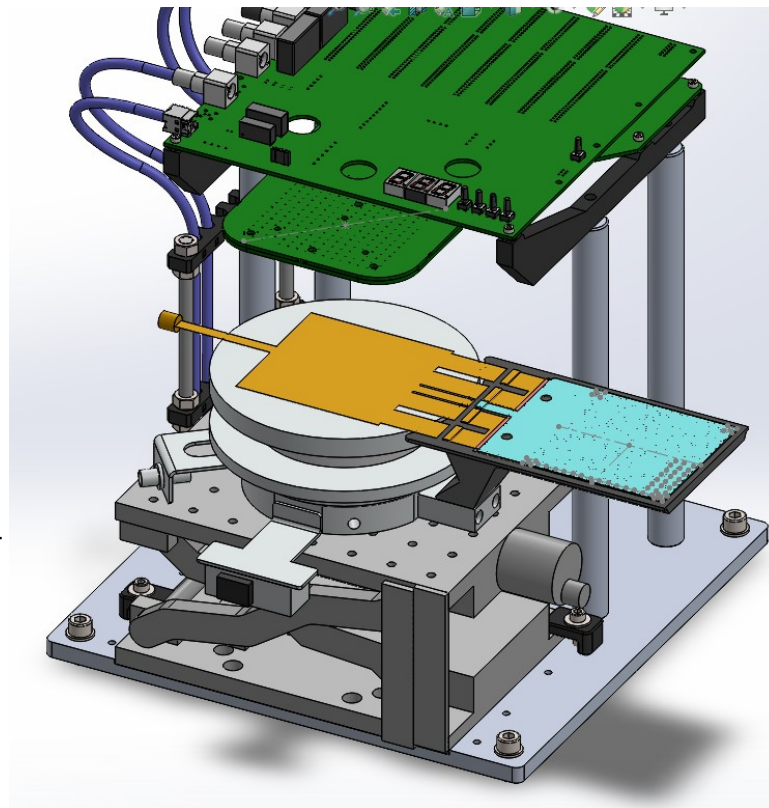


▷ Fanouts

- The mounting of the connectors took more than anticipated.
- They are travelling now from Tel Aviv to Valencia. I am hoping to get them next week (the border paperwork is slow...)
- Question for Yan: are they tested electrically?

► PCB for testing the connectivity

- Due to the delay of the fanout assembly, the design by TAU was also delayed (and hence the production).
- I discussed with IFIC if we could manufacture it, provided that we get the gerber by Yan
- To facilitate the manufacturing at IFIC, Yan is simplifying the design (the HV is decoupled from the CB and we will have a separated connection).
- IFIC can build it but I won't be sure of the timeline until next week.
- The soldering of the connectors is far from trivial, requiring special stencils and tooling provided by HIROSE --
→ but our technician claims that he can (and is willing to) solder the 64 pins by hand.
- **Conclusion: we may or not be able to test the sensors before sending them to Poland.**
- **Alternatives: X-ray inspection at IFIC?**



Irles A., 70th April 2025

Calendar 2

				10	11	12	13	14	15	16	17	18	19	20	21				
				MARCH				APRIL				MAY							
PCB for connectivity tests	Adrian/Yan/IFIC	PCB for connectivity tests	The PCB has been designed by Yan. As soon as we receive the gerbers, we are trying to manufacture it at IFIC...							?	?	?	?	?					
	Melissa/Shan/Adrian	Test and validate	depends on availability of test material								YES?	?	?	?					
				10	11	12	13	14	15	16	17	18	19	20	21				
				MARCH				APRIL				MAY							



Calendar 3

				10	11	12	13	14	15	16	17		
				MARCH				APRIL					
	FIRST PRODUCTION	Arrival of Fanouts								YES! --> once they arrive, we need to bring them to the IFIC large clean room for cleaning them (and the sensors) with the plasma gun....			
		Melissa/Shan/Adrian/Carlos	Discuss the procedure (which glues to use?)					YES	YES				
		Melissa/Shan/Adrian	Glue 2 SENSORS (H20E)							?	YES		
		Melissa/Shan/Adrian	Glue 2 SENSORS (monocomponent)							?	YES		
				10	11	12	13	14	15	16	17		
				MARCH				APRIL					

Calendar 4

[illegible]