

Pixel Commissioning

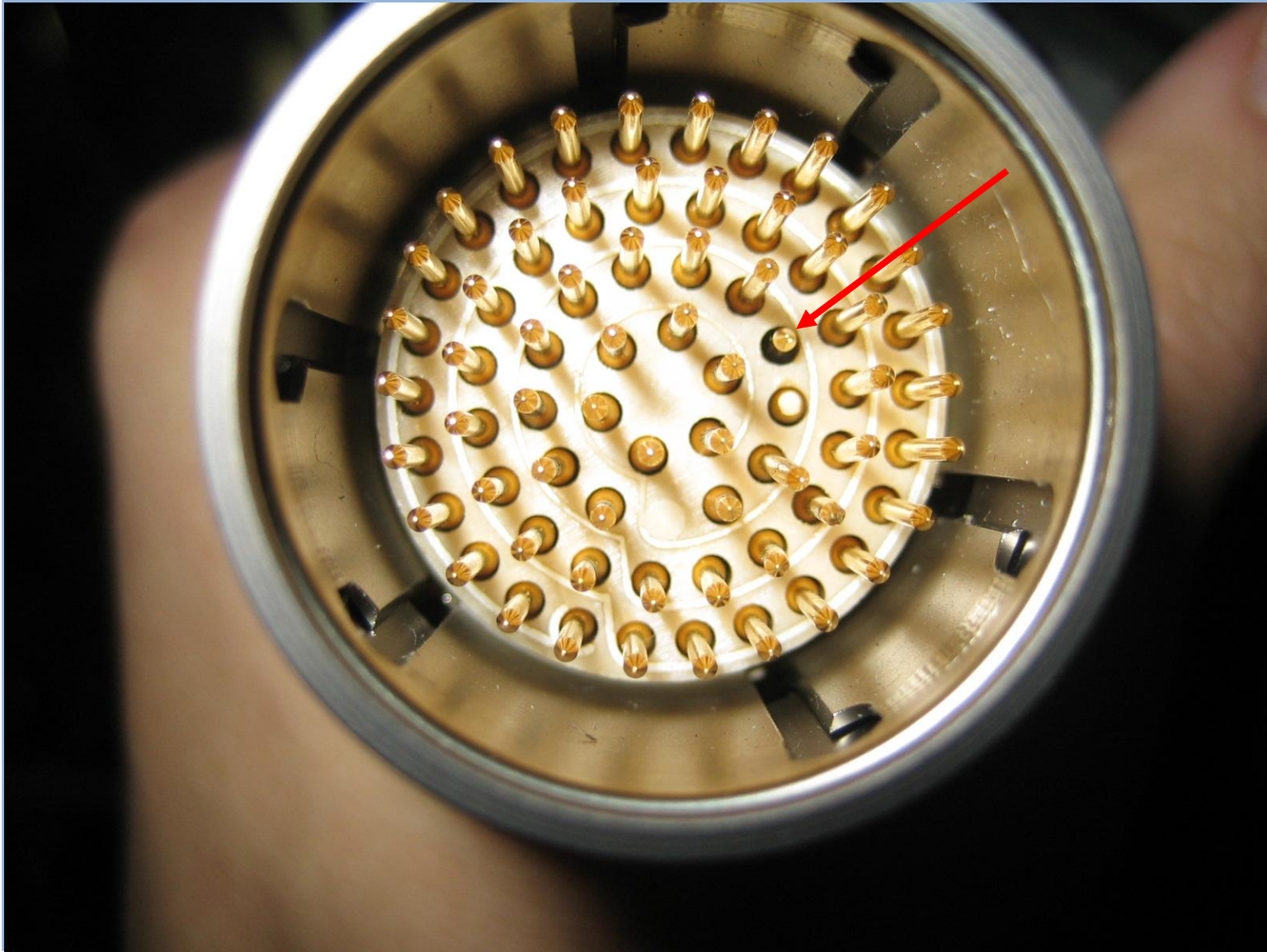
ATLAS Genova, 20 Dec 07

- **Schedule:**
 - **A side:** apertura del calorimetro a 3m prevista per la settimana del 14 Jan. Prima SCT dovrebbe finire il grosso dell'installazione e iniziare il commissioning durante il periodo di non-accesso.
 - **C side:** apertura del calorimetro e' avvenuta negli ultimi 10 gg (da allora C side non e' piu' stata accessibile). SCT ha trovato due perdite nell'EC prima dell'apertura che devono essere fissate. Questo ha ritardato l'inizio del dry out che e' necessario per poter commissionare il detector.
 - Si puo' stimare che la connessione dei servizi per il Pixel detector possa iniziare dopo il 24 Jan sul lato A e una settimana dopo sul lato C.
 - Inoltre le prime due settimane di Gennaio (7-22), operazioni di mantenimento ridurranno l'accesso in caverna e parte dei servizi, inclusa una riduzione del consumo globale.
- **Nel frattempo:** cosa abbiamo fatto e cosa faremo in Gennaio.

Sign-off of the services

- **(Electrical)** Service test: at PP1 connection of LV, NTC/opto, HV cables to a load that mimic one PP0 and check that all channels are switching on and are properly interlocked.
 - **All PP0 have been tested**, and there are no major problems remaining. Minor issues to follow up on, including getting an ISeg supply replaced, and getting the last three Wiener supplies installed.
 - Found some **retracted pins** in the LEMO connectors (there are about 15 of them): Repair procedure has been qualified and failures on A side has been repaired. -> see picture
 - A final service test will be run again in January to check the final interlock status and a failure mode in the PP2 that we realized not be caught by the Service Test (inhibit and kill of the regulators). Few days/side.
 - Missing Opto-heater Interlock boxes and the Bakeout boxes.
- **Optical services**: Fibers have been tested (OTDR) and are installed in the DAQ crates
- **Cooling**: pipes preparation is almost done, almost all heaters are at CERN, loop-back will start in January
- **DAQ crates** (Paolo): sign-off in data- taking during M5 and M5.5 (week of Dec10)

A retracted pin



Preparation at PP1

- Part of the **Environmental** cables have been temporary connected to monitor temp/humidity.
- Test of the **connection procedure** have been done: ready!
- Still to check the $\Delta T(t)$ when modules and optoboards are switched on -> impact on the connection and test time as it might affect the parallelization.
- To be approved the procedure to switch on in order to look for retracted pins. -> see picture
- Procedure for the **fiber sign-off during the connection** has been approved (it is different from the tests we run during the SQP integration in SR1). It is almost completely implemented in the code.

Sense lines open (preliminary)

