

# PACS Newsletter

Nr. 2, 7 September 2006



Fig. 1: After de-integration, inspection and re-integration of the FPU dichroics and the PhFPU the PACS lid was closed in week 35.

## Status of PACS

As described in Newsletter Nr. 1 the FPU was disassembled and re-integrated end of August. The main points were inspection and characterization of the dichroics, electrical functional check of the PhFPU, the inspection of the KT-72 coated accessible parts of the FPU and inspection of all accessible parts for visual cleanliness and inspection under UV light. The prior optical alignment affected by the swapped dichroics was re-established and verified by lasers. The state of the black-paint after the cryovibration was very good.

A delta cryovibration for the PACS FPU was not considered necessary by MPE and ESTEC PA/QA.

BOLC has arrived at MPE and was integrated into the warm electronics. It works well.

The PhFPU is currently being integrated in the test cryostat.

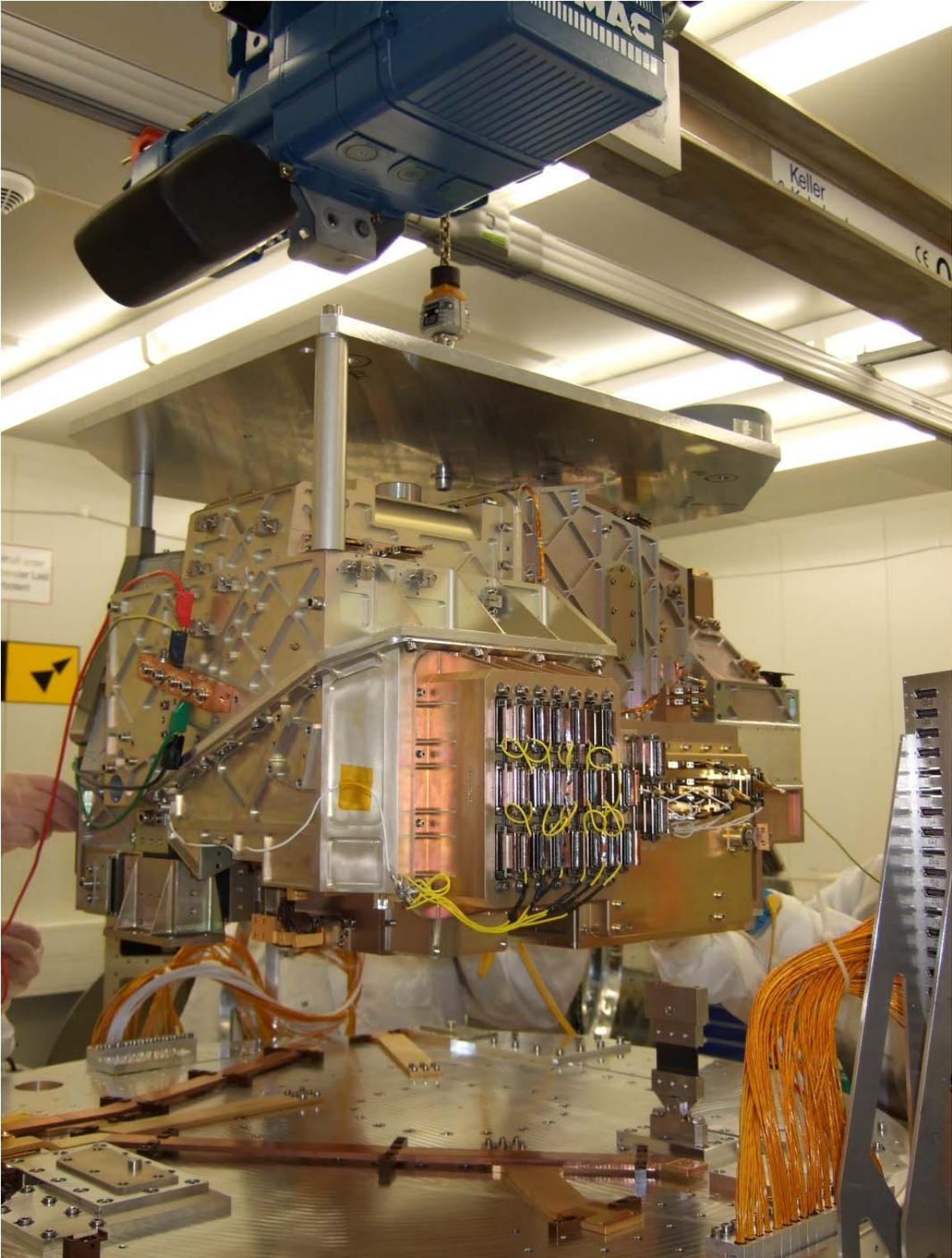


Fig. 2: Mounting of the PACS FPU to the test cryostat (today).

DECMEC FM delivery is still uncertain. Next telecon with CRISA will take place next Tuesday. This means we will definitely do some warm tests with the DECMEC QM. It is not clear, however, whether we will cool down and do cold functional tests, too, with the DECMEC QM. This depends on the as up to now uncertain delivery date of a functioning DECMEC FM. Consequently, we do NOT have a valid absolute ILT schedule (i.e. starting date) so far. Further schedule information will be made available in the next issue of the PACS Newsletter around September 13 (mid next week).

## Letters to the editor

The editor was pleased to receive some immediate responses to the Newsletter Nr. 1. Most people expressed their happiness about the Newsletter and encouraged the editor to continue this work. There were two letters with slight correction statements which we print below:

Christine Hartinger wrote referring to the section about the dichroics and the re-inspection of the FPU:

*The FPU was received back on August 19th from CSL. Due to warping, the two hotpressed dichroics of the bolometer and of the spectrometer had to be replaced with airgap dichroics. During the handling the new spectrometer airgap was touched and scratched by accident. Therefore it was necessary in an emergency action to repair it at Cardif. Another cool down verified the suitability and FTS measurements the spectral behavior. After that it could be integrated in the FPU because it has almost the same condition as supplied before.*

Jean-Marie Gillis wrote w.r.t the DECMEC section in Newsletter Nr. 1 (“...which currently has break downs every 15 minutes...”)

*Actually the DECMEC FM is not breaking down every 15 minutes, the redundant section has successfully undergone all its tests including more than 40 hours of continuous operation. It is true that the nominal section is experiencing frequent DPU links disconnections. Your 15 minutes must be an average of the two cases ...  
The DSP boards are currently back at Crisa for investigation, but at least we know one of them is flight worthy.*

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