



# SiW ECAL DAQ: plans

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*Warning/Disclaimer: I am new to the DAQ business, and still have a lot to learn...  
Apologies for mistakes & omissions*

As you know, CALICE DAQ system is developed mainly by our U.K. Collaborators

**Detector Unit:** ASICs

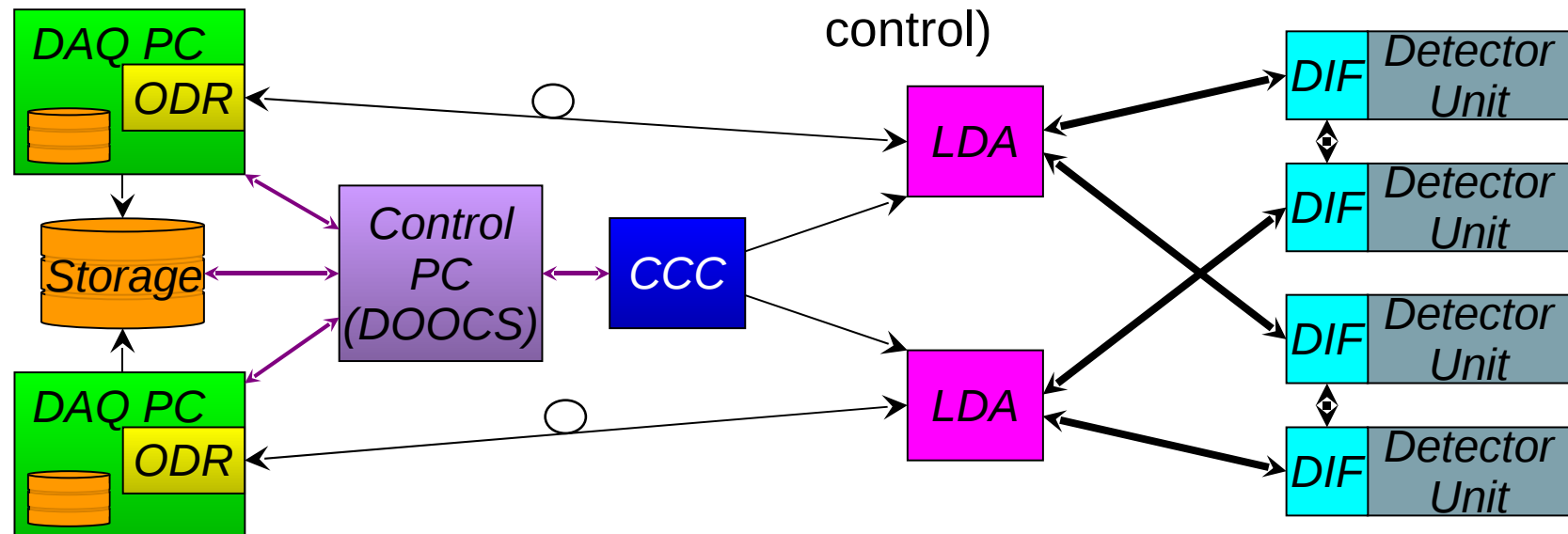
**DIF:** Detector InterFace connects  
Generic DAQ and services

**LDA:** Link/Data Aggregator – fanout/  
in DIFs and drives link to ODR

**ODR:** Off Detector Receiver – PC  
interface for system.

**CCC:** Clock & Control Card: Fanout to  
ODRs (or LDAs)

**CONTROL PC:** DOOCS GUI (run-  
control)



Matthew Wing (UCL) will give a talk on DAQ status this afternoon

Hope to have all DAQ hardware components available by ~ April

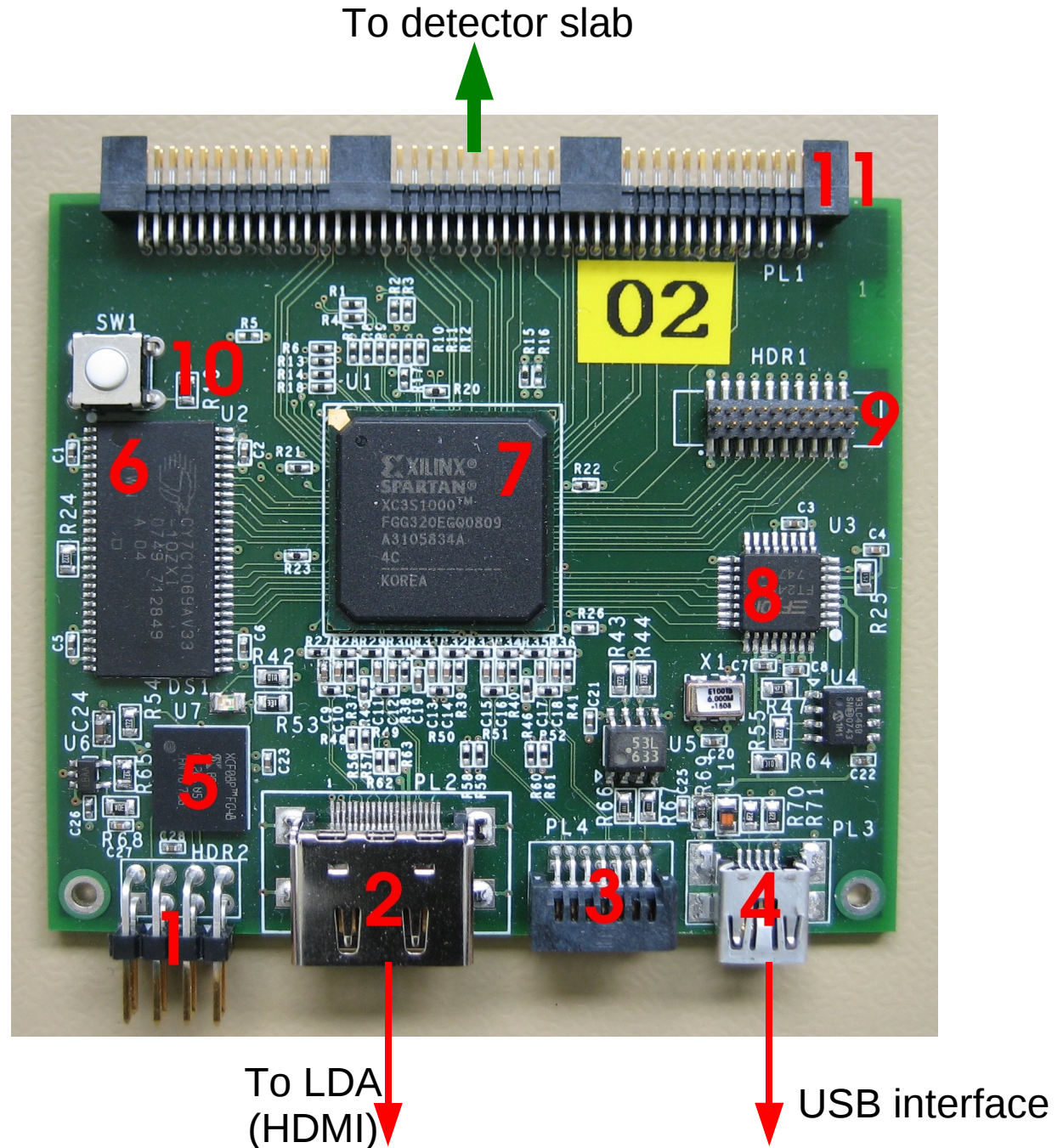
Need to have working cosmic test-bench system by June for EUDET contract  
This will be done at LLR

ECAL DIF card  
prototype ready; EUDET  
version to be produced soon...

Other hardware exists  
in some form, some still  
preliminary

Firmware for various  
pieces is under  
development

Remi Cornat has developed  
simulation of various parts  
of DAQ chain: he will present  
it this afternoon



For EUDET contract, need to detect cosmics  
Wafer + SPIROC chip (in SKIROC mode) on ASU + DAQ ....

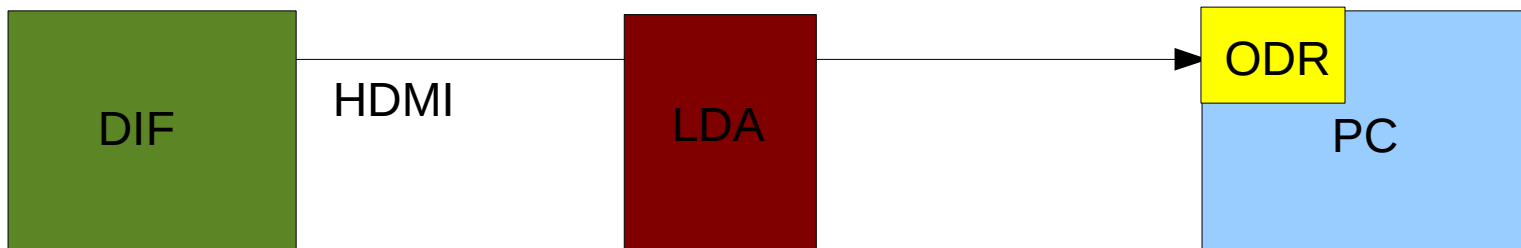
We plan to setup cosmic test-bench at LLR for this measurement

2 possible options:

- run via the USB interface on the DIF card  
easier (less useful), but “single-use”



- use the whole DIF – LDA – ODR chain  
more work, but much more useful in long-term



## Summary

Need to have working cosmic test-bench by June

DAQ hardware required are approaching completion

The firmware for these is being developed in parallel

Time is rather short...

More up-to-date & detailed information in this afternoon's session