



Status of the DHCAL 1m² GRPC Acquisition

C. Combaret

IPNL

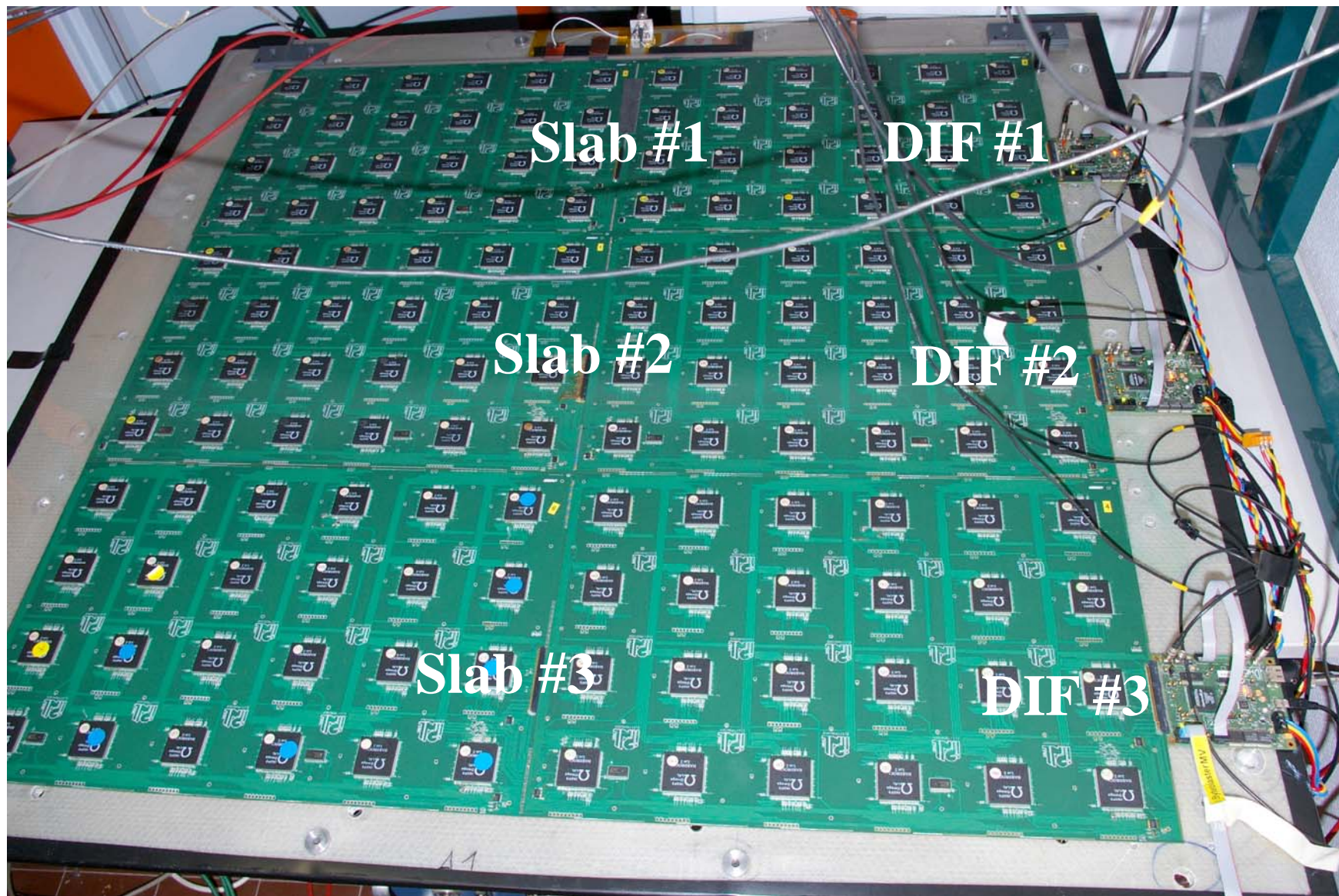


Status on march 31st

- Setup with :
 - Detector : 1m² GRPC
 - Electronics : 3 IPNL slabs (48 Hardrocs v1), made with 2 single slabs (24 Hardrocs v1 each)
 - 1 DAQ PC (Dell Poweredge 2950) running SL5
 - 1 windows PC for user interface (mostly for convinience and to run Quartus)
 - XDAQ software running on the DAQ PC

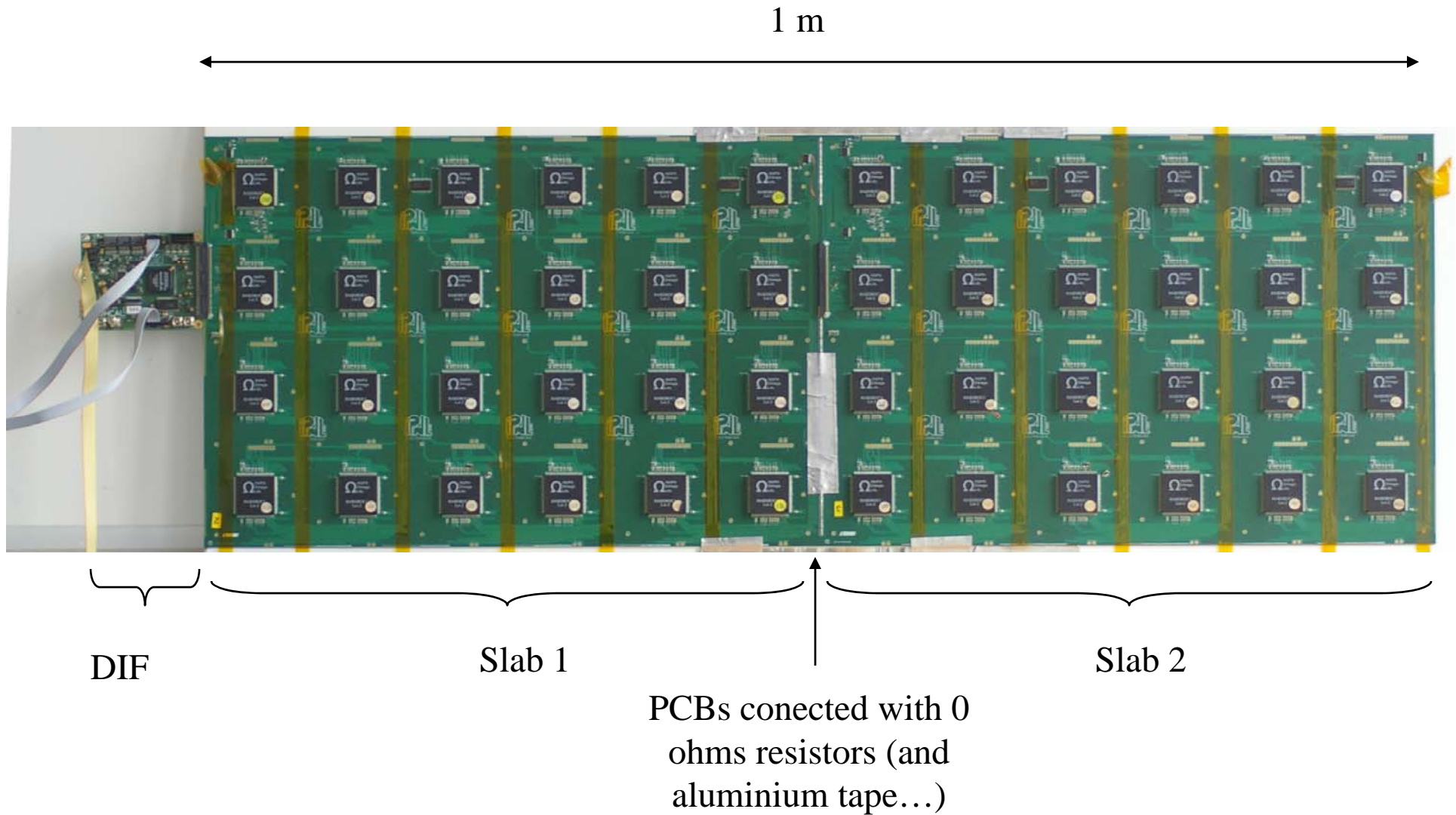


Status on march 31st : Experimental setup



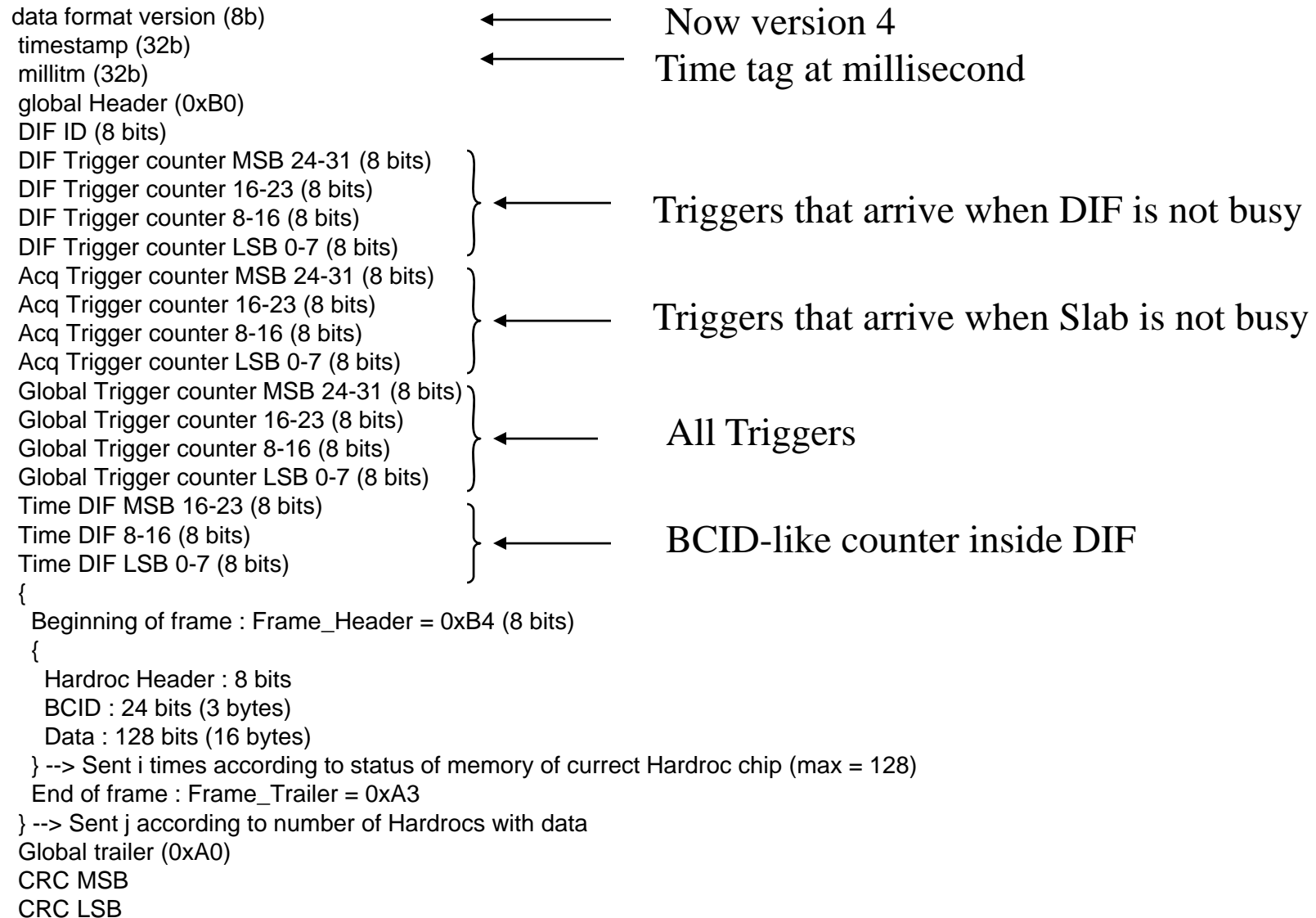


Status on march 31st : 48 Hardrocs slabs





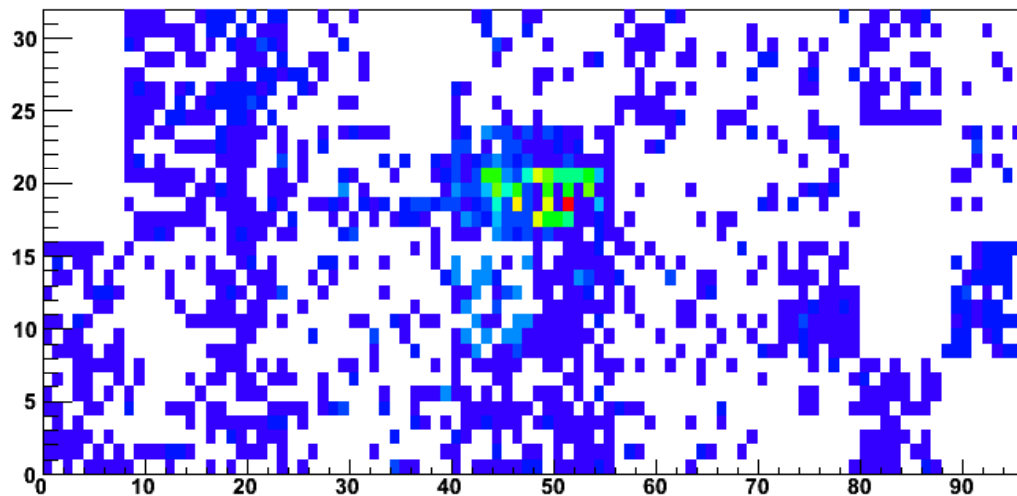
Status on march 31st : Current data format



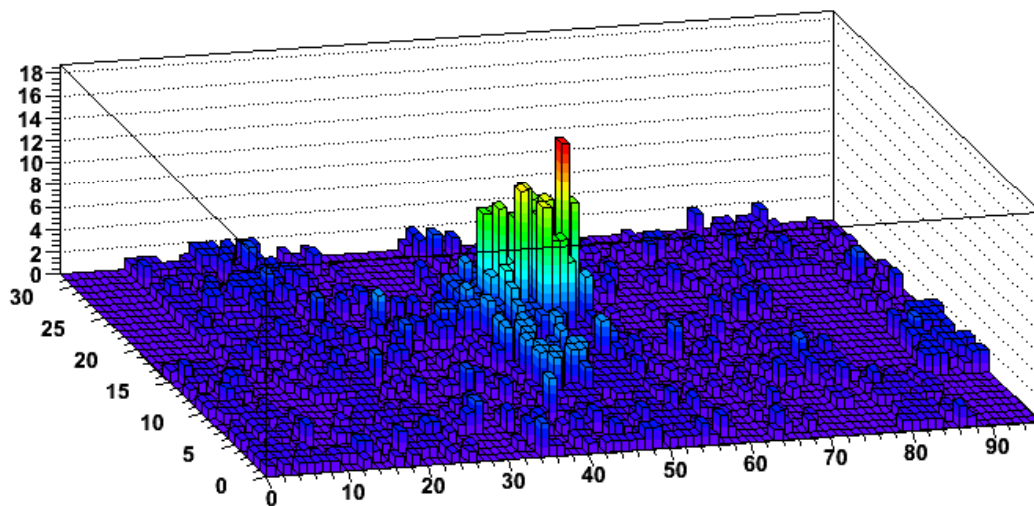


A run taken one 1slab

Board2D



Board2D



Data taken for 1 slab
with a small PM as
cosmic trigger
Limitation on 1 slab is
due to the fact that we
only have small PMs for
cosmic trigger



Status on march 31st : where are we?

Xdaq Software with Hardroc asics is functional :
Stable (tested over few hours)

DIF with one 48 Hardroc PCB is fully functional (Slow control,
digital readout)

3 DIFs (for 1 m²) used in parallel with Xdaq

Calibration package (to record S-curves) is (almost) working



Status on march 31st : What next ?

Need a few VHDL lines from Guillaume to synchronize Slabs when a ramfull occurs (Thursday?...)

Need to test, test and test before june beam test...