



Centre
de Physique
des Particules
de Marseille

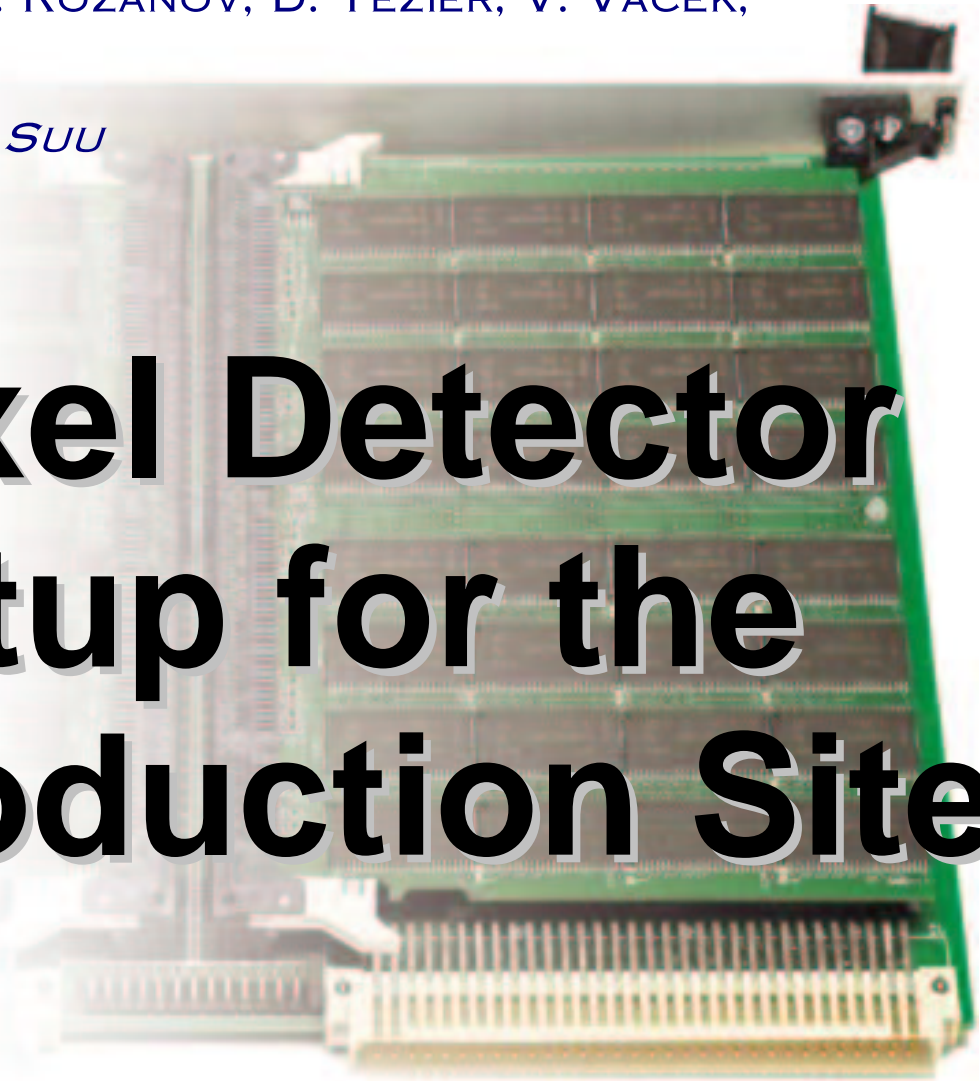
CPPM

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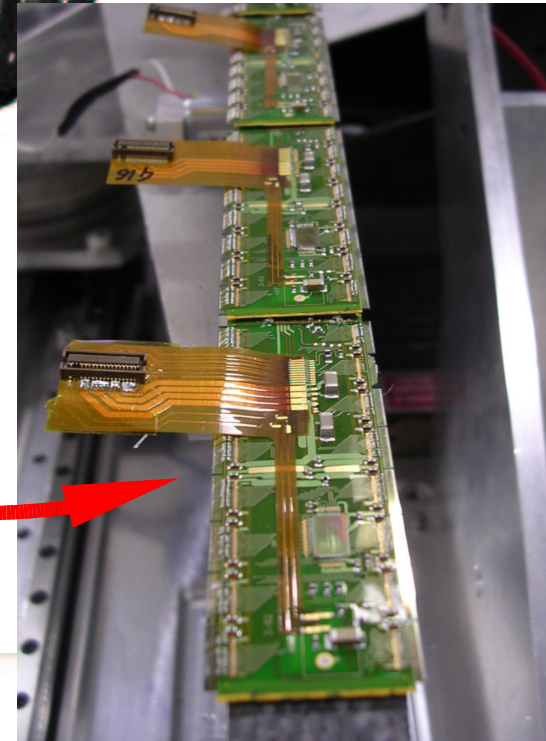
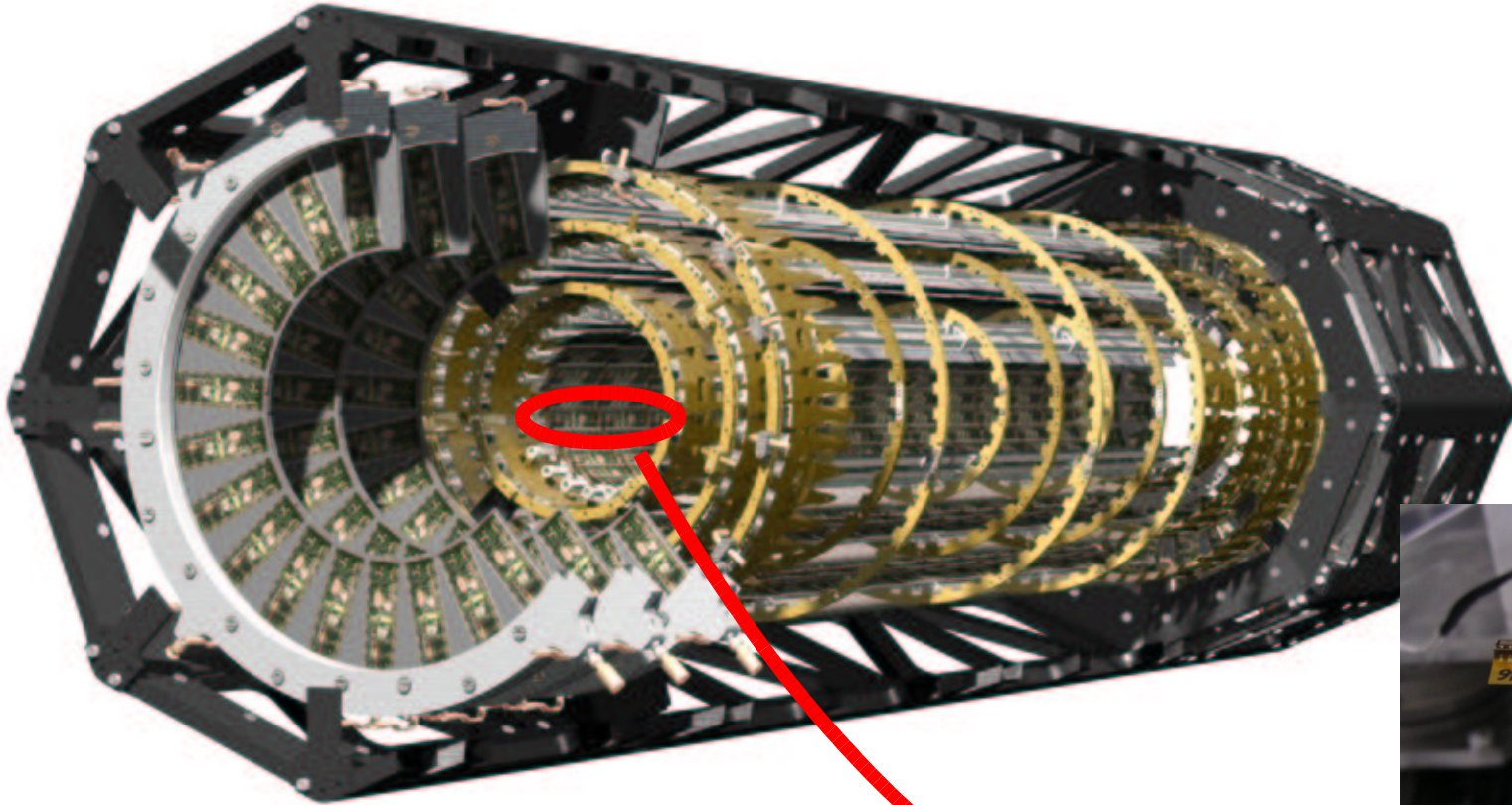
PRESENTED BY: A. LE VAN SUU



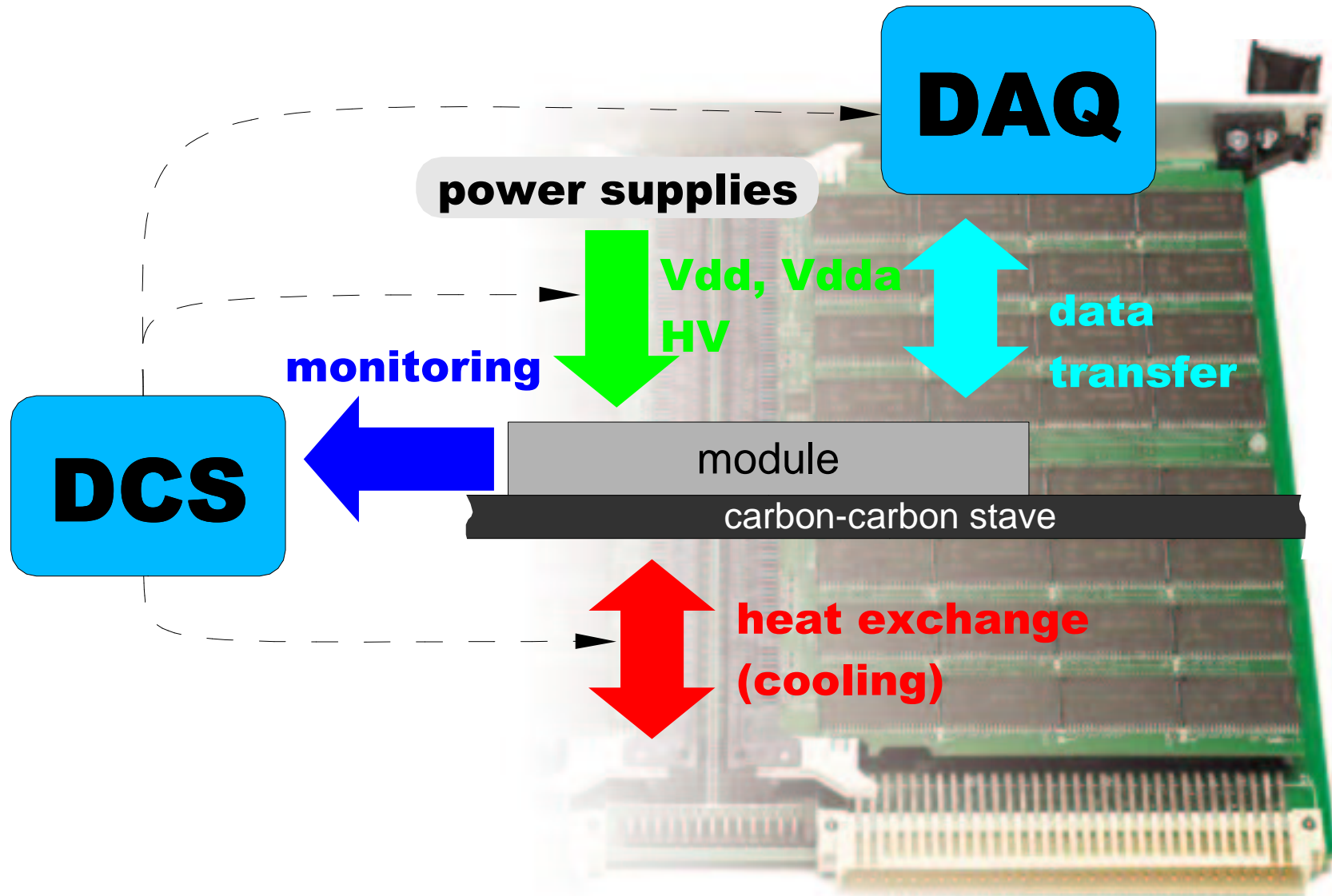
Atlas Pixel Detector Test Setup for the CPPM Production Site



The Atlas Pixel Detector

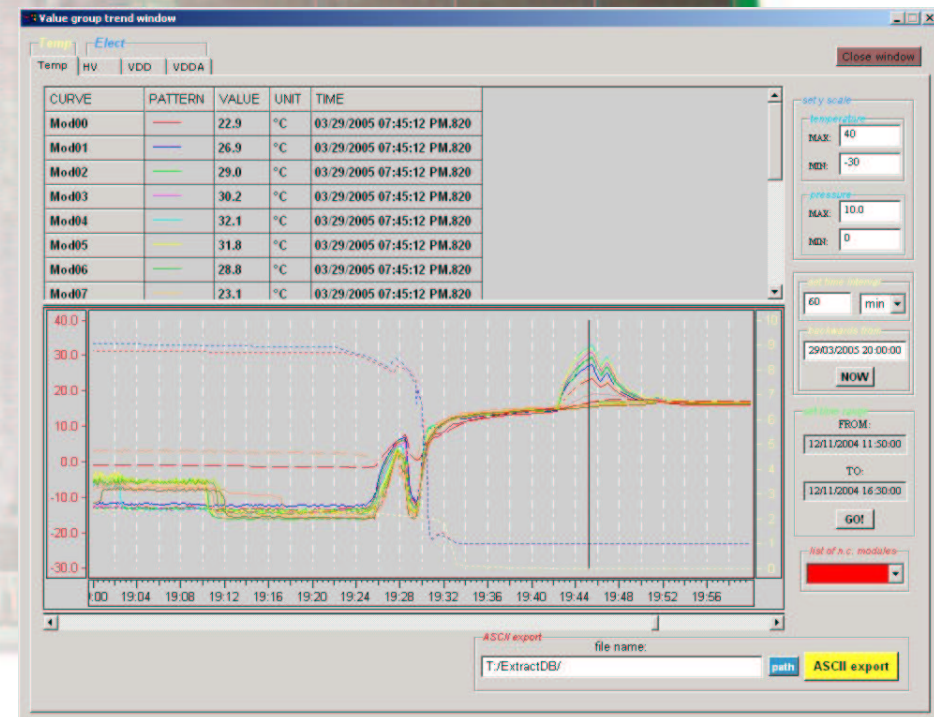
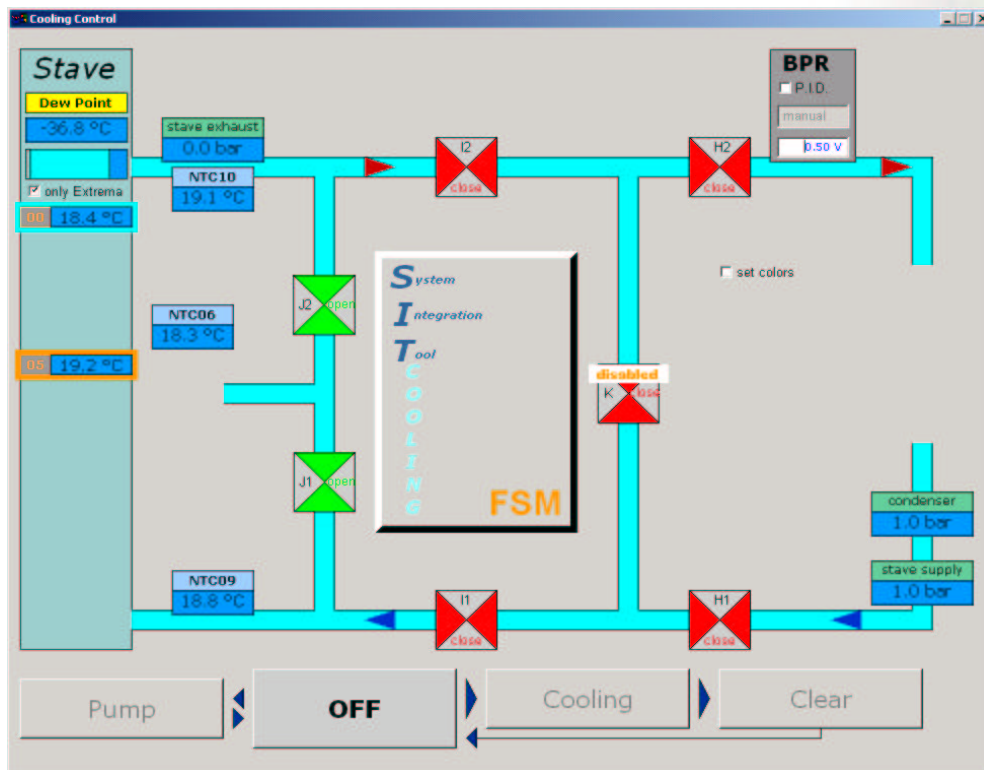


System Test Setup Architecture



Detector Control System

- CPPM contributions:
 - Graphical user interface
 - Cooling System Control and Monitoring
 - Interlock and Watchdog Electronics
- Technology: native PVSS (CTRL scripting)



First Results, Outlook

- Revelation of weaknesses of DCS (driver instability/failures) in long term (> 1 week) runs
- Revelation of problems in thermomechanical resistance of detector modules (glue dissolution, destruction of bonds)
- DAQ aspects (scalability) only superficially tested up to now
- Unique possibility to operate
 - 13 (or 26) modules in parallel with the ReadOutDriver hardware,
 - with evaporative cooling system
 - before final mounting in the experiment.
- *We have built a nice testbench, spanning all online aspects; now we want / have to use it.*

