



Centre  
de Physique  
des Particules  
de Marseille

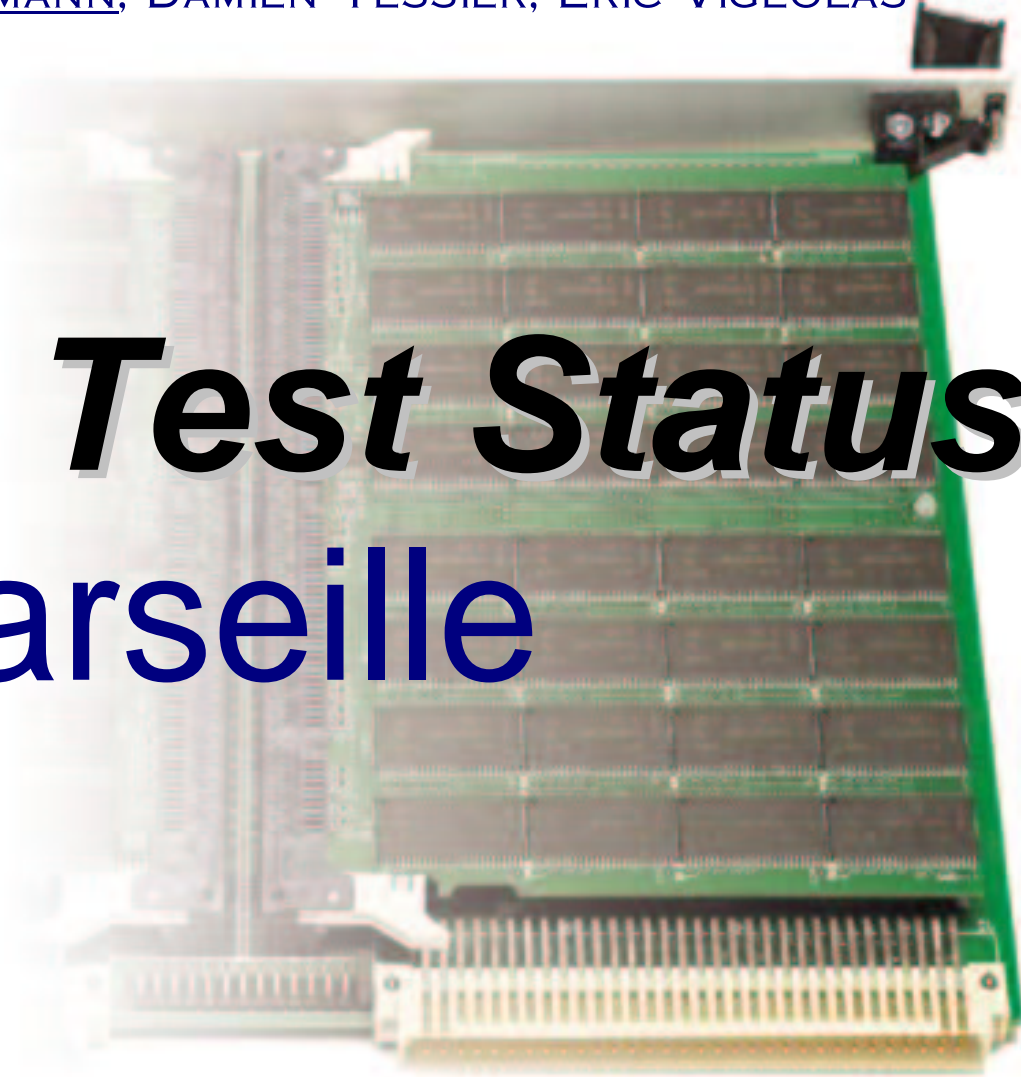
**CPPM**

PATRICK BREUGNON, JEAN-CLAUDE CLÉMENS, GREG HALLEWELL,  
TOBIAS HENSS, DIRK HOFFMANN, DAMIEN TESSIER, ERIC VIGEOLAS



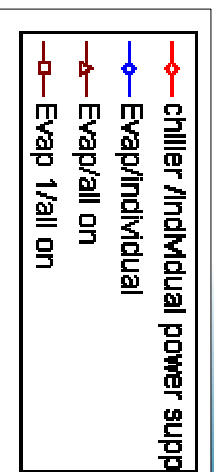
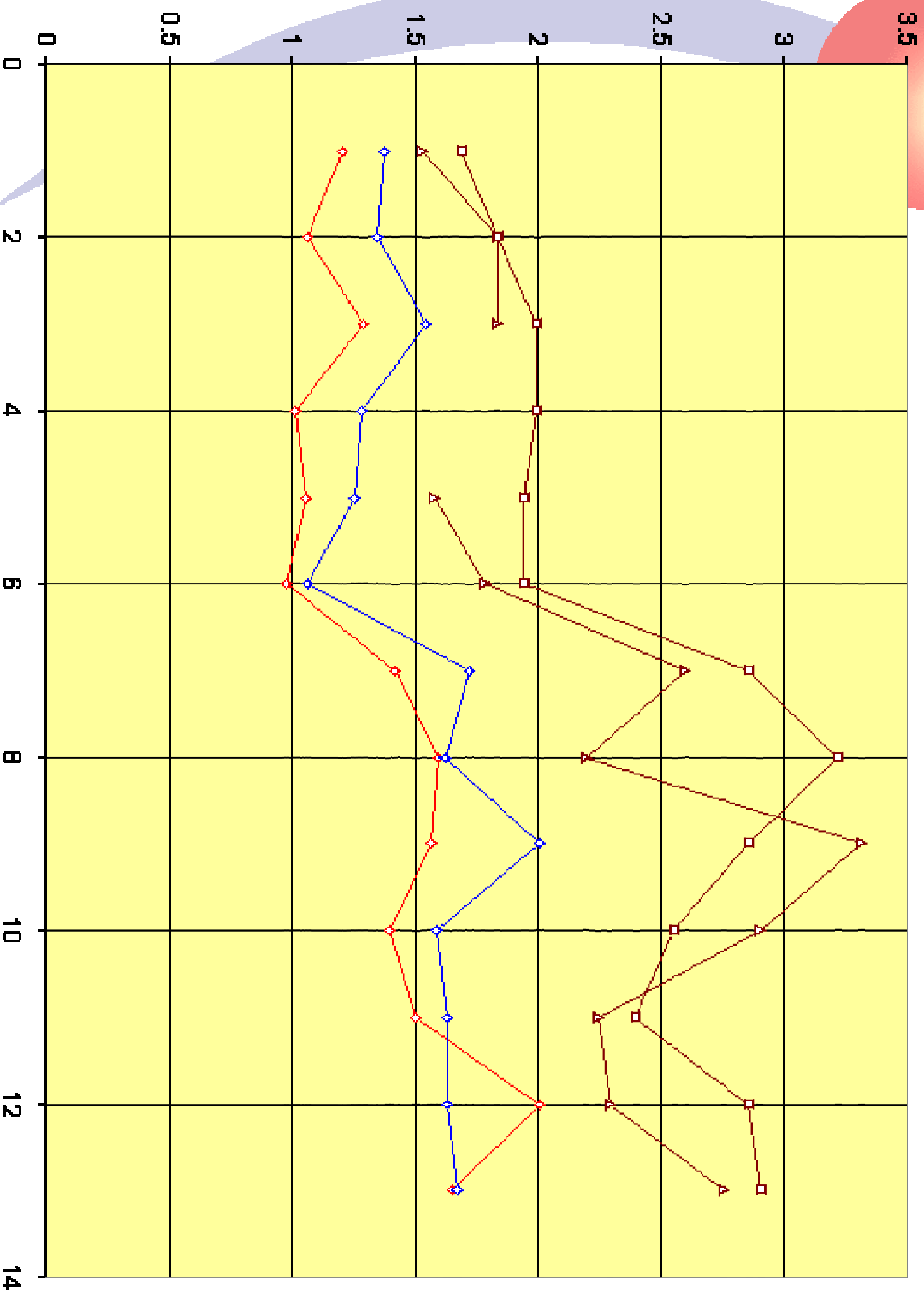
# *System Test Status*

## Marseille



# Module Temperatures

Thermal behaviour of Slave 4012 (°MW)



# Summary

## → COOLING:

Working, stable, controlled by PVSS,  $-0\dots-20^{\circ}\text{C}$  in less than 1 min

## → LOW VOLTAGE:

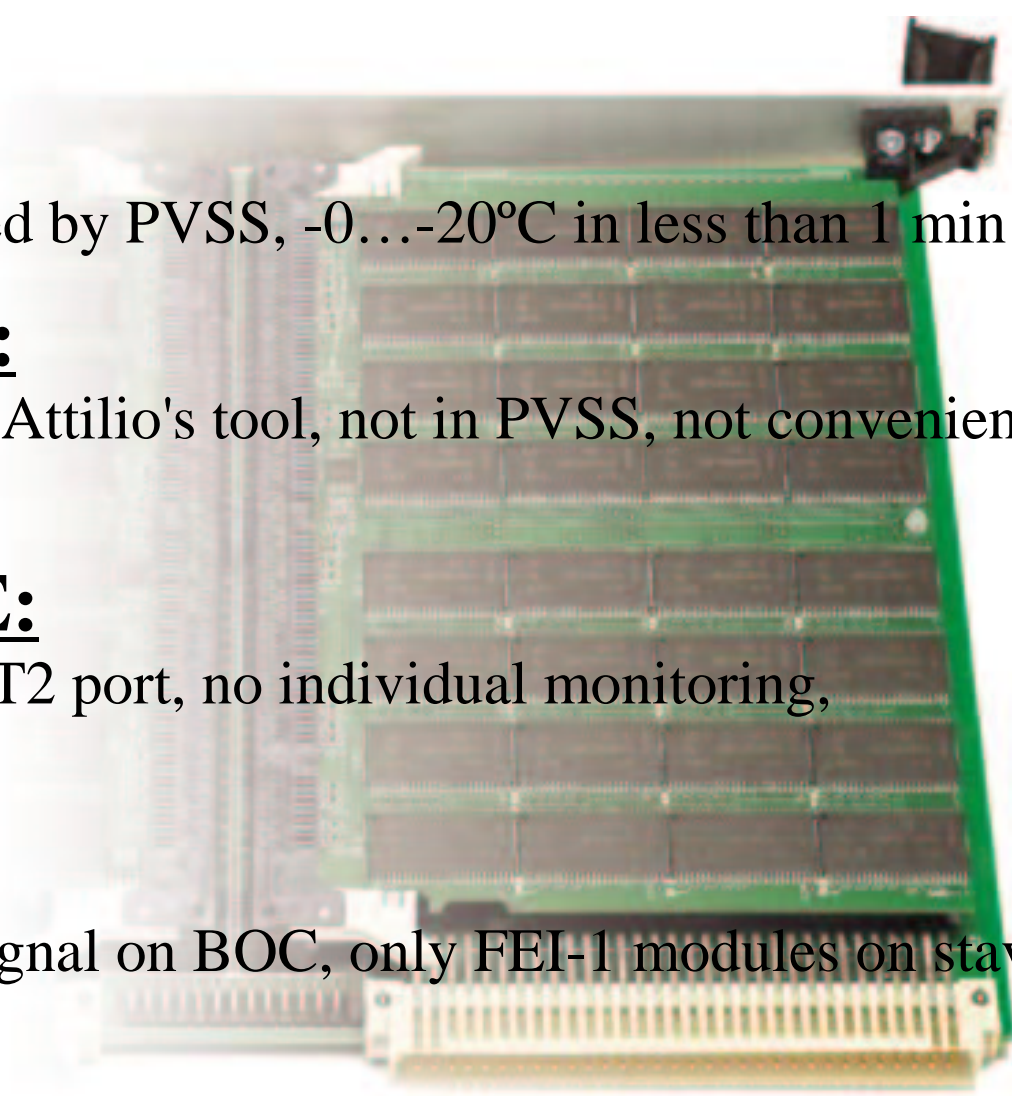
Using 2 PP2 + 2 CB with Attilio's tool, not in PVSS, not convenient, not reliable

## → HIGH VOLTAGE:

Using Iseg module on LPT2 port, no individual monitoring, 2<sup>nd</sup> ELMB needed

## → ROD DAQ:

compiled (June '04), no signal on BOC, only FEI-1 modules on stave in Marseille



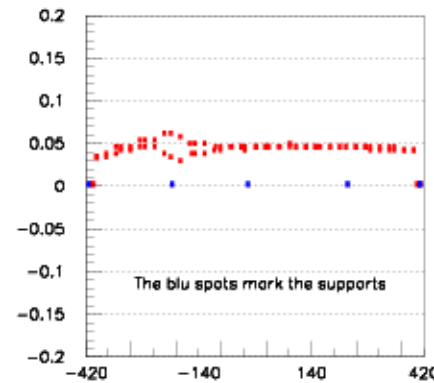
# Addendum: possible explanation

## – What's the experts' opinion?

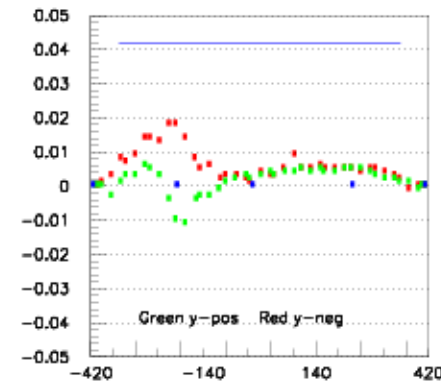
- problematic stave (4012) :
- shows temp. asymmetry

- other (typical?) stave:

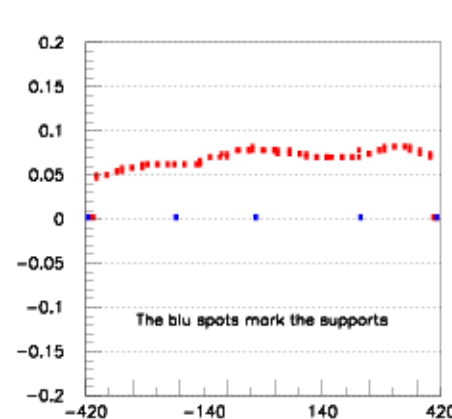
23-07-03 Stave 4012 T= -4 °C



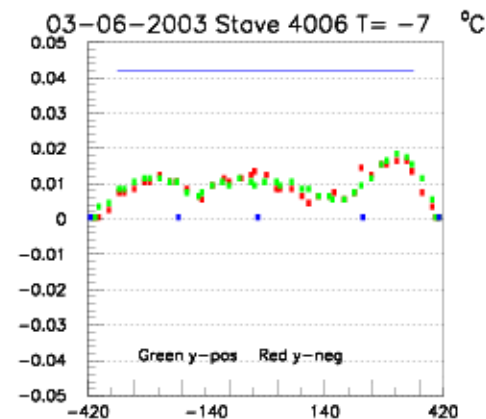
Raw thermal distortions



Corr thermal distortions y .lt 0 x



Raw thermal distortions



Corr thermal distortions y .lt 0 :

■ from: <http://www.ge.infn.it/ATLAS/Mechanics/Production/production.html>