CLIC prototype module type 0
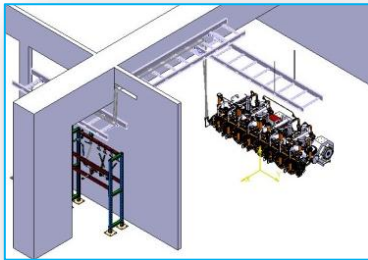
- EBW of 2 stacks: COMPLETED
- TIG welding of vacuum flanges: COMPLETED
- Installation on girders: COMPLETED

Cooling system

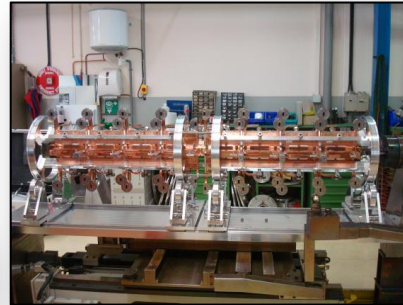- Water supply: DELIVERED
- Hydraulic parts : DELIVERED
- Control valves: DELIVERED
- Measuring devices: DELIVERED
- PRV: DELIVERED
- Safety valves: end of September
- Supporting frames: end of September
- Electric scheme: end of September
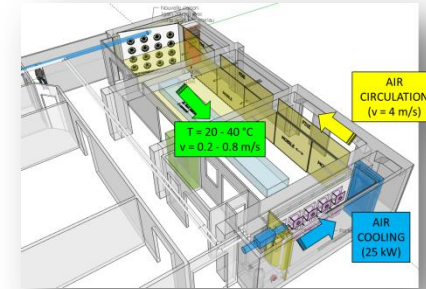
Bonding test

- Experimental tests on real disks investigating lower pressure and validation of theoretical models
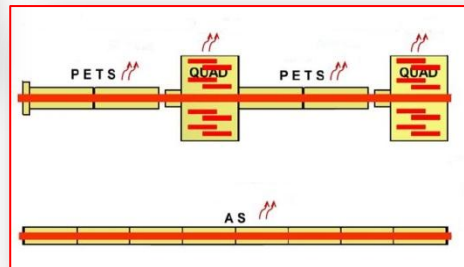
Air conditioning and ventilation system

- Final design: COMPLETED
- Installation: end of October

AIR CIRCULATION (v = 4 m/s)

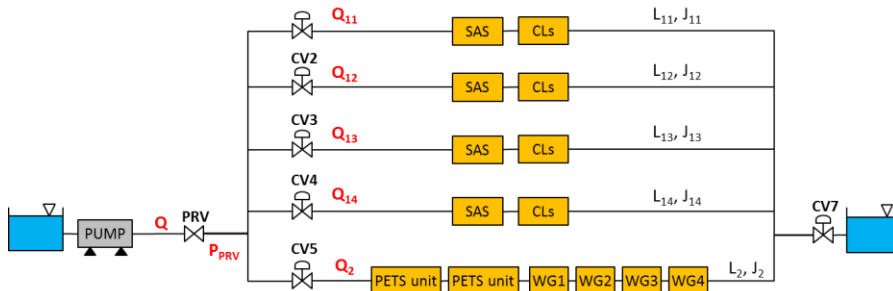T = 20 - 40 °C
v = 0.2 - 0.8 m/s

AIR COOLING (25 kW)

Heating system

- Heaters: DELIVERED
- RTD sensors: DELIVERED
- NI hardware: DELIVERED
- Improvement of electric network: COMPLETED
- Thermocouples + DAQ card: DELIVERED
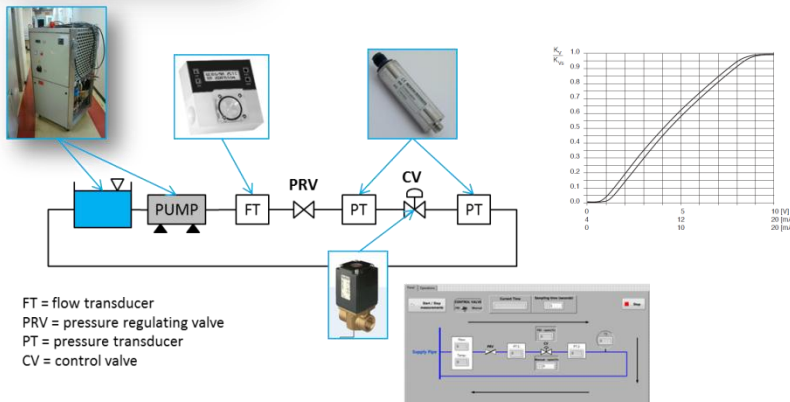- Electric scheme (IL, SSR, etc.): end of September

MeChanICs project

- Secondment to Loval Oy (Loviisa, Finland) from October 1st to November 30th

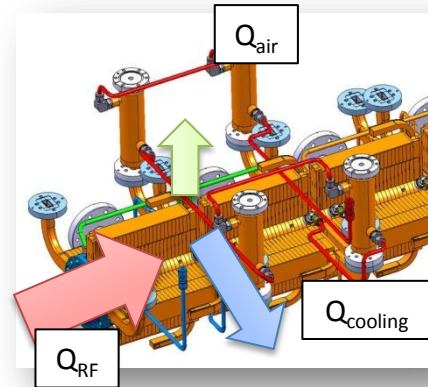- Bonding tests with H_2 using the new furnace

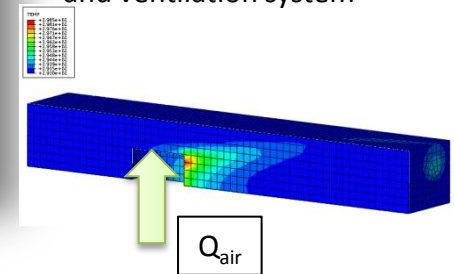## Cooling system (R. Mondello, I. Kossyvakis, J. Blanc, F. Bashir)

- Preliminary test on a simplified version of the cooling system for:

  - Testing data acquisition and control system
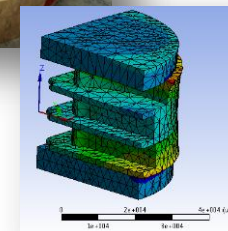 - Testing electronics
  - Measuring Kv of control valves

FT = flow transducer
PRV = pressure regulating valve
PT = pressure transducer
CV = control valve

Thermal modelling (L. Kortelainen)

- Thermal model to calculate heat dissipation to air

- CFD model of air conditioning and ventilation system

Diffusion bonding experimental program (A. Xydou)

- Diffusion bonding tests using both simple and real disks (TD24_R0.5_SiC) to investigate the effect of pressure on final bonding joint and residual deformations

- Validation of theoretical models by means of experimental tests