

# Updates on FWEC-EMC Mechanics PANDA Collaboration Meeting 20/3, GSI, Darmstadt, 2020

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# Installation of Forward Endcap @ FZ Jülich

- Lifting pedestal for pneumatic mounting arm finished
- Brought to Jülich Cosy TOF hall last week
- Pedestal necessary in order to lift mounting arm to reach topmost submodule positions in Forward endcap





### Installation of Forward Endcap @ FZ Jülich

- Mounting of arm to pedestal to be combined with test of arm adapter lifting dummy submodule
- Need to screw pedestal to hall floor?





#### **Coolant Mixer Boxes**

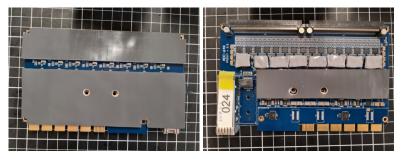
- First (of two) mixing boxes built (test of concept)
- Sitting between central cooling machine outlet and single coolant subcircuit heaters (side bores, up/down u-turn bores, one side/front-cooling)
- Ball valves for connection to outgoing flanges ordered





### **SADC Crates**

- Bochum took over the SADC cooling crate finishing from KVI, Groningen
- Thermally coupling of heat dissipating componts by silicon foam heat transfer pads to aluminum plates on top and bottom





### **SADC Crates**

 Thermal image of aluminum plates only possible after blackening (reflection)

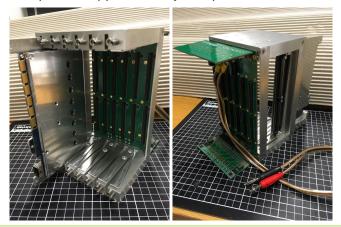


 Full size thermal tests in preparation, SADCs available, firmware needs update (continuous digitizing)



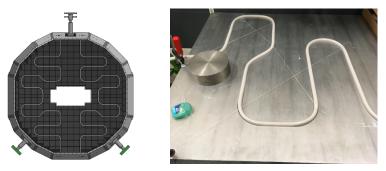
# **SADC Crates**

- Mechanical fitting of aluminum sandwiched boards to crate
- Cooling flanges (side walls) covering SADC boards and power supplies, finally complete thermal test



# **Front Cooling**

- Preparation of PA tubes: thermal conditioning w/ sand fill
- Still looking for optimum treatment and handling



- Special ATLAS (inner tracker)-approved, fast UV-ray curing glue (Dymax 6-621) to bond to aluminum front plate
- Thermal conductance paste in addition

