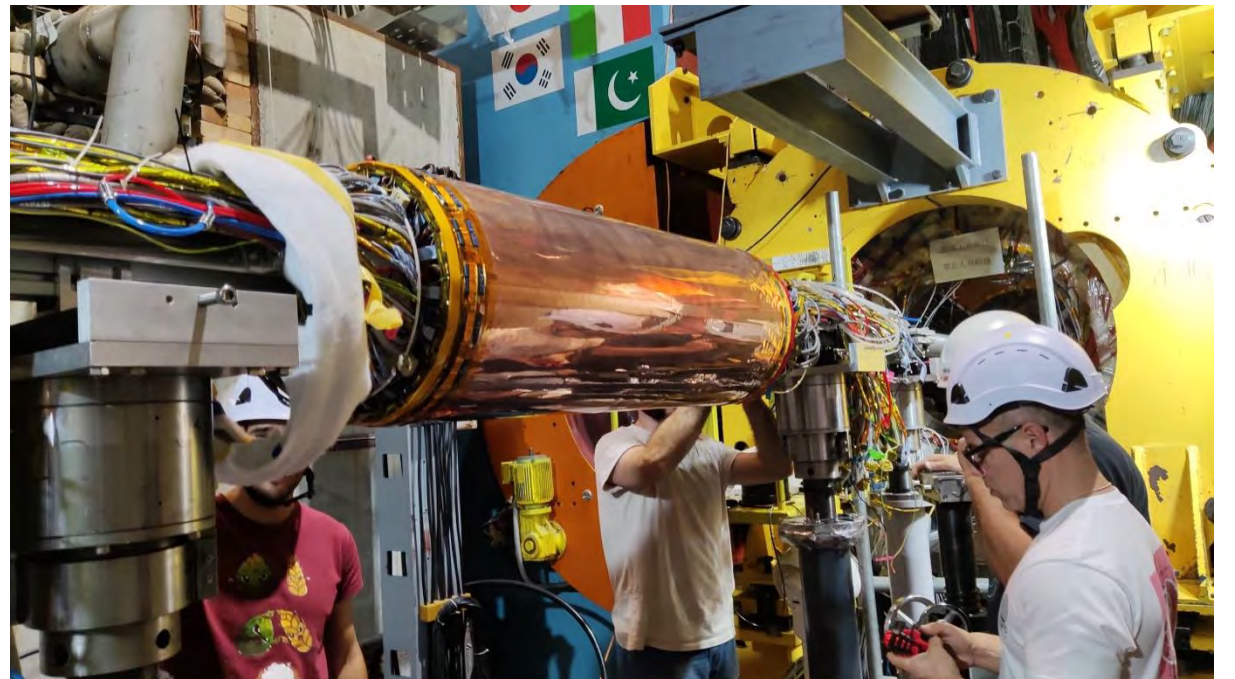


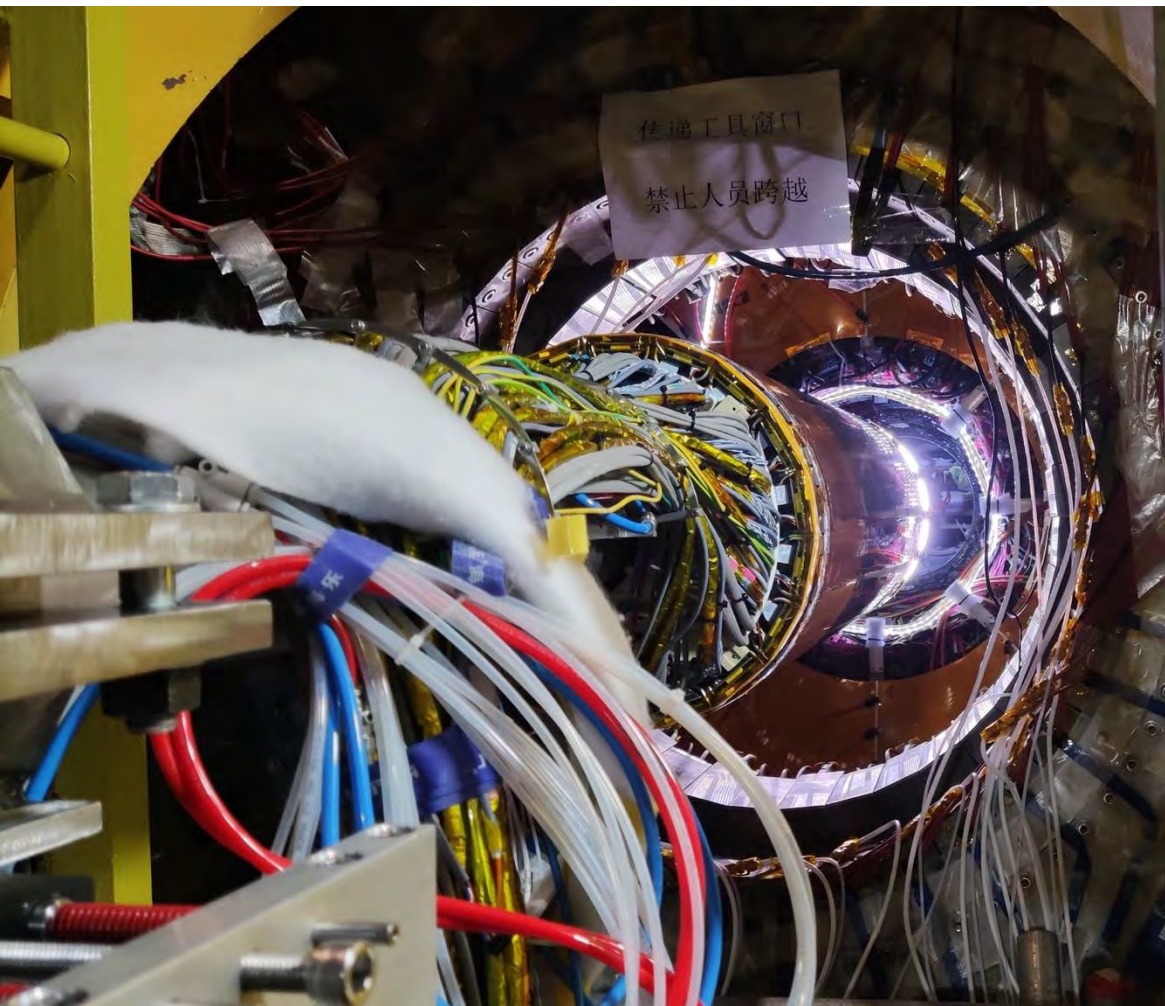
# CGEM installation report



# Activities last week I: detector installation

Day	Activity	Note
Oct 1 <sup>st</sup>	Rail pre-alignment and preparation of experimental area	
	Last day of testing of the CGEM detector	
Oct 2 <sup>nd</sup>	CGEM uncabling and preparation for the transport	
	CGEM transport to experimental hall	
	CGEM placed on the coupling rail	
Oct 3 <sup>rd</sup>	Radial measurement of the CGEM	Scrub blue plates
Oct 4 <sup>th</sup>	CGEM approached the MDC cavity	Need to replace Velcro strip with kapton
Oct 5 <sup>th</sup>	CGEM fully inserted into the cavity	Issue with MDC screw
Oct 6 <sup>th</sup>	Installed east flange	
	CGEM connected to flanges on both sides	
Oct 7 <sup>th</sup>	Insertion trolley removed	





# Issues with CGEM insertion

- We had some difficulties inserting the last cm of the detector due to cable holders and cables in the way
- We couldn't place the detector in its nominal position due to the presence of screws (+glue) on the west side which were not present in the initial design. Therefore, the detector is about 1.5 mm shifted toward east
  - This is not an issue for the angular coverage



# Activities last week II: electronics and utilities

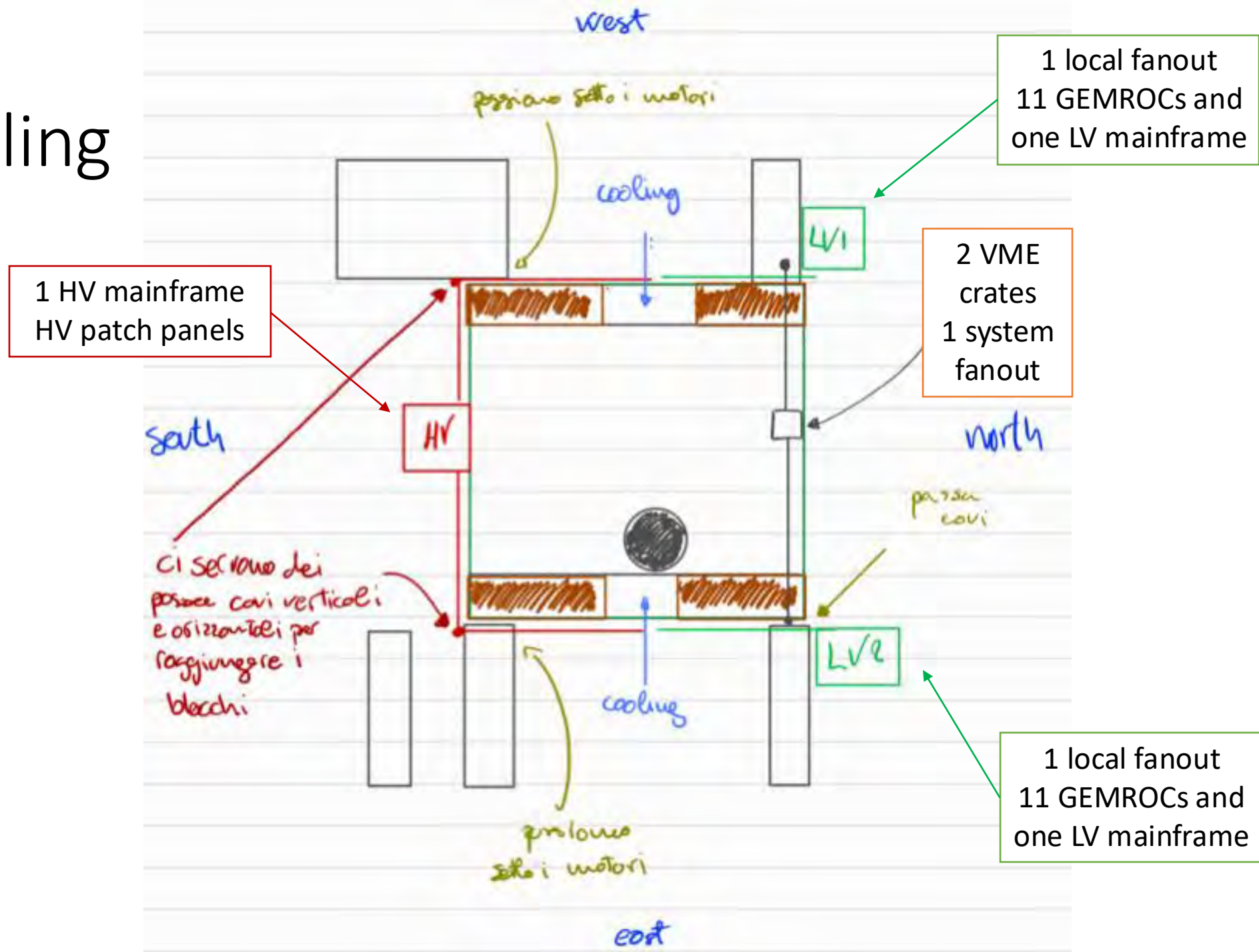
Day	Activity	Note
Oct 1 <sup>st</sup> – 3 <sup>rd</sup>	Temporary cooling system preparation	
Oct 4 <sup>st</sup> – 6 <sup>th</sup>	Final cooling lines laying	
Oct 2 <sup>nd</sup> – 7 <sup>th</sup>	Cables and electronics packing for the moving from 106 to experimental hall	Moving planned for tomorrow
Oct 3 <sup>rd</sup> – 7 <sup>th</sup>	Survey for HV and electronics installation and cable routing	A proposal has been discussed with Mingyi and will be presented here

# Activities this week

Activity	Mo	Tu	We	Th	Fr	Sa	Su	Mo
	7-Oct	8-Oct	9-Oct	10-Oct	11-Oct	12-Oct	13-Oct	14-Oct
Long rail removal								
MDC shielding installation								
Sealing MDC west side								
Laser measurement								
Cables and electronics prep & moving								
Connect electronics to cooling								
Prepare Electronics test setup								
Short haul cable preparation (parassitic)								
LV and DATA cable routing and testing								
Contingency								

HV cabling and testing will follow

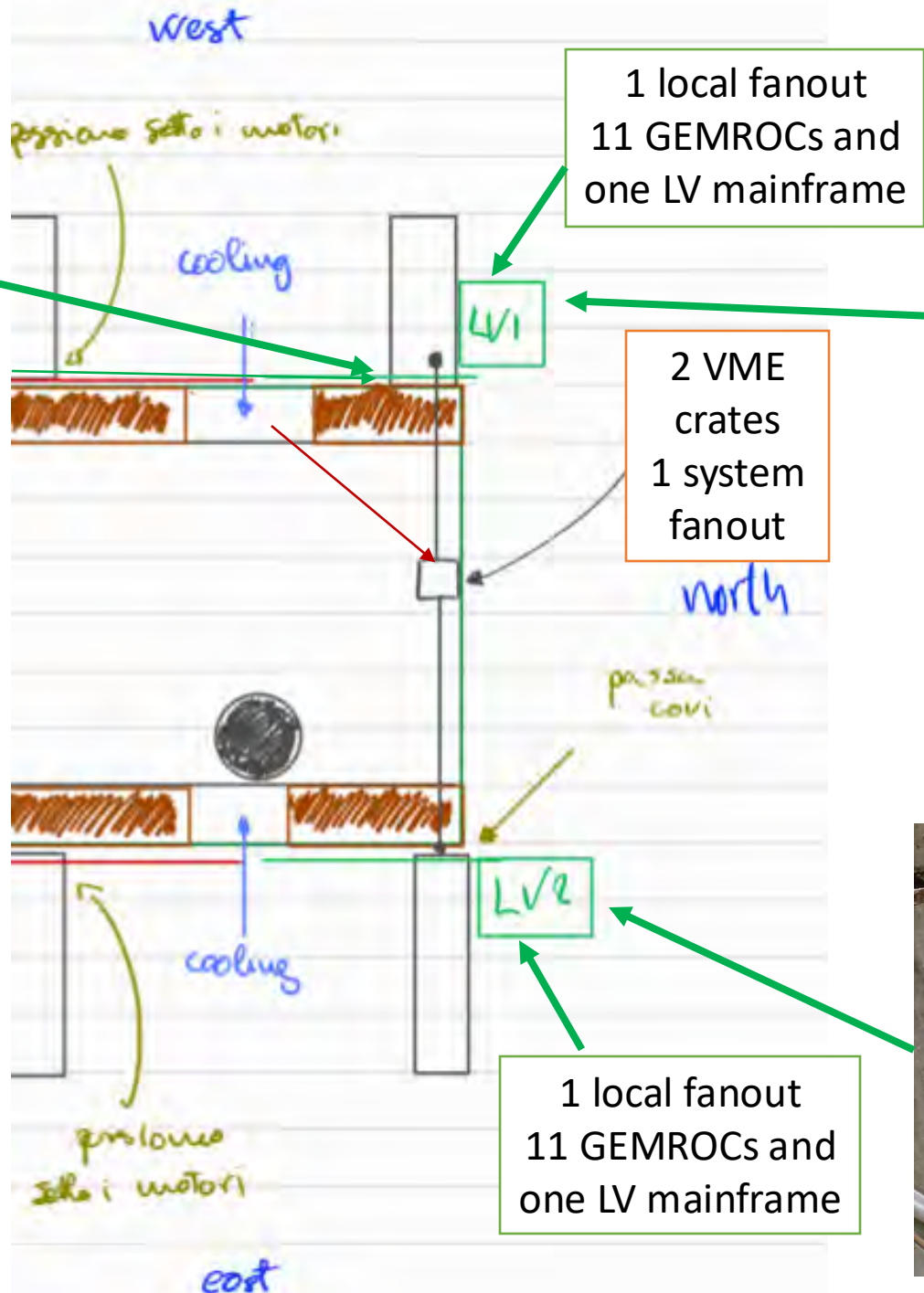
# Cabling







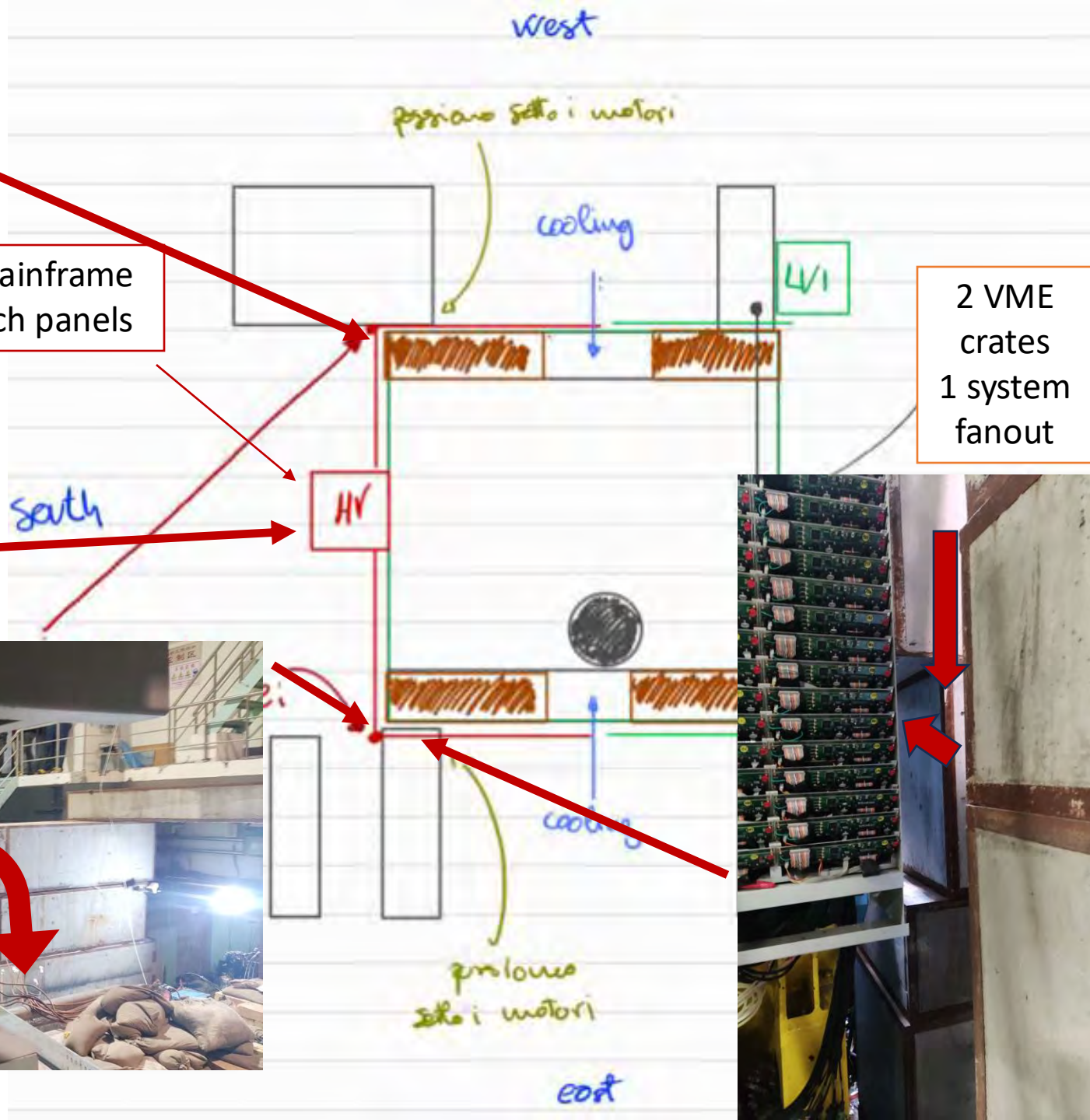
LV and DATA



# HV



1 HV mainframe  
HV patch panels



2 VME  
crates  
1 system  
fanout



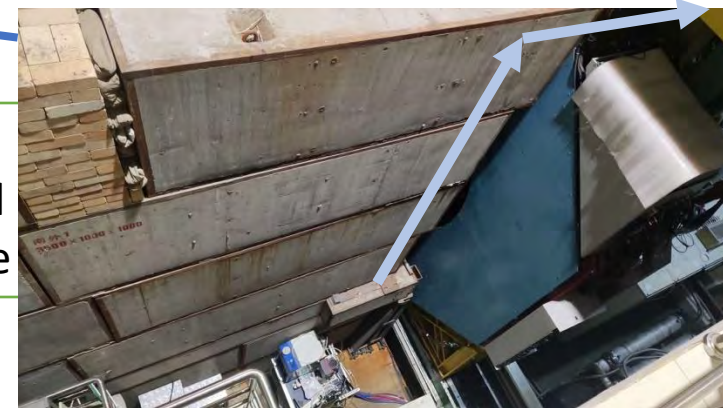
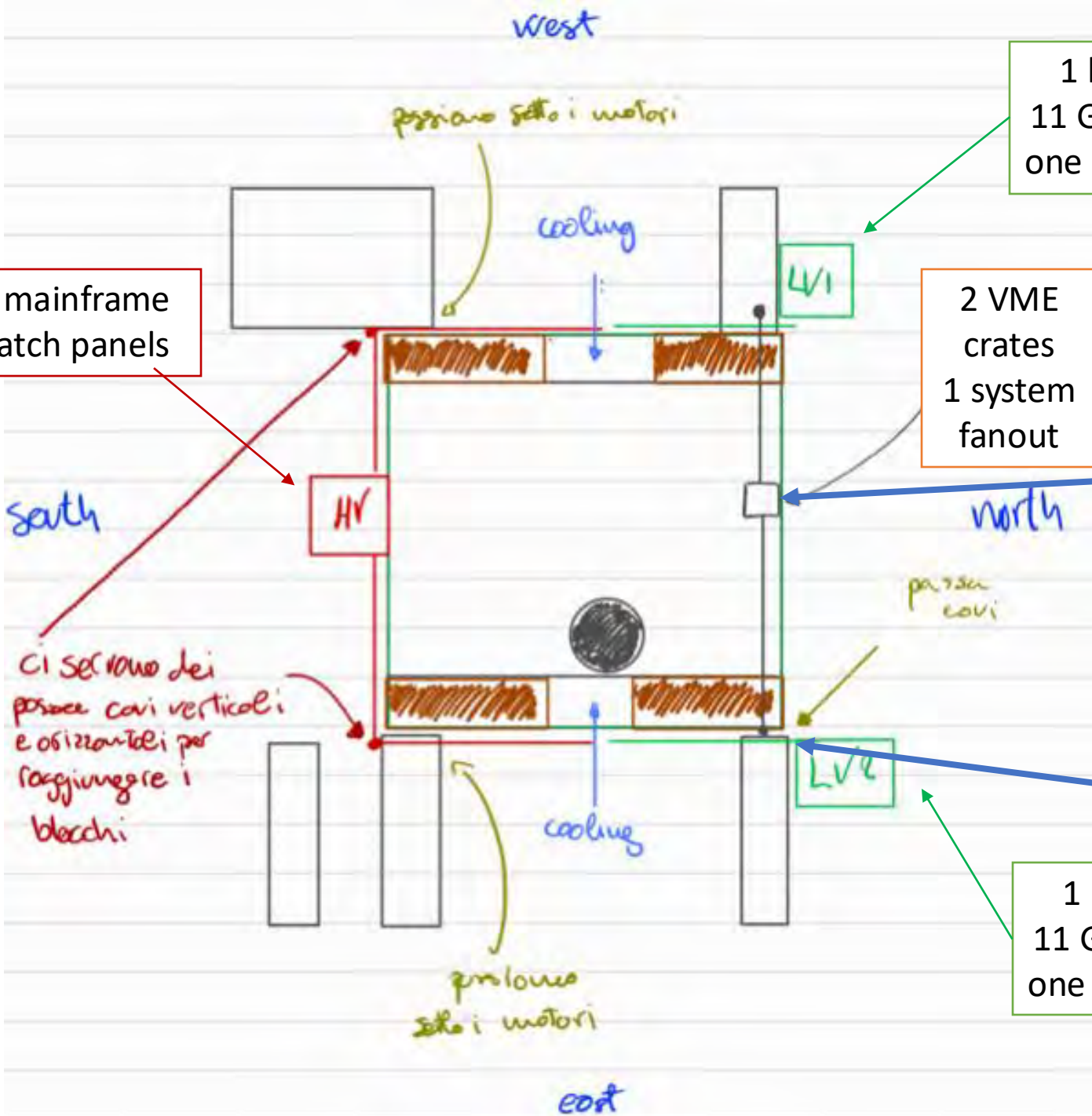
# DAQ

1 HV mainframe  
HV patch panels

1 local fanout  
11 GEMROCs and  
one LV mainframe

2 VME  
crates  
1 system  
fanout

1 local fanout  
11 GEMROCs and  
one LV mainframe



# Needs

- Platforms on south west and south east to safely install the GEMROCs (already discussed and agreed with Mingyi)
- Be able to drill the concrete blocks to place cable holders
- Doors to be removed on the north platform second floor where the HV will be placed
- Electric panels (already discussed with Mingyi)
- Feedback from DAQ people about location for VME crate
- Gas system