Towards GSI 2021

General and technical aspects and few numbers

Limitation due to Covid-19

A specific registration is requested related to Covid-19 pandemic, information can be found here:

https://www.gsi.de/work/organisation/stabsabteilungen_stellen/welcome_office

Before leaving to GSI, you will need to:

- **Get tested** against Covid-19 (<48 hours before leaving, antigenic test valid)
- Register at the following link, uploading the test certificate:

  https://einreiseanmeldung.de/#/

Important: quarantine no longer needed (since May 14th)

FOOTers @ GSI 2021

Green= already vax

Orange= 2vax june

black= no vax in july

Purple= I don't know

The indication is 2 persons per detector..when possible..

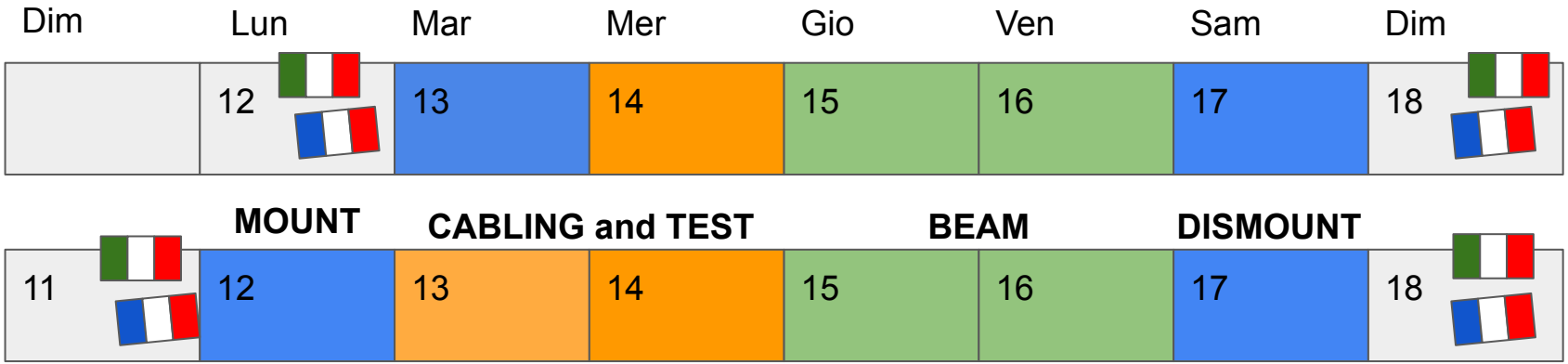
Detector	People
Margherita (2)	Giacomo Traini, Marco Toppi
TOF wall (2)	Matteo Morrocchi , Andrea Moggi (sost Maurizio Massa)
DCH (1)	Yunsheng Dong
Vertex (2)	Christian Finck*, Eleuterio ??
MSD (2)	Leonello Servoli, Keida Kanxheri/Mattia Barbanera, Gianluigi Silvestre
Calorimeter (2)	Lorenzo Scavarda, Nazar Bartosik/sostituto
DAQ coordination (2)	Riccardo Ridolfi, Mauro Villa
Software coordination (1)	Alessio Sarti
Trigger coordination (1)	Roberto Zarrella (sost: Marco Francesconi e Luca Galli)
Run coordination (2)	Michela Marafini, Francesco Tommasino (sost: Sofia Colombi)

*Marie Vanstalle, Alexandre Sécher will join exploiting a ‘not foot’ collaboration

This list contains 19 participants...too many, the agreement was on 15 people!

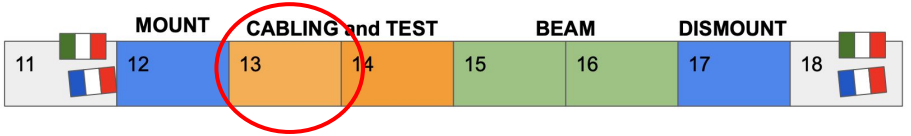
Time Schedule

- The beam has been confirmed (80%) to be 15-16 July
- While no quarantine is request we can:



- Space division in cave and control room.
- Electronic space definition in CAVE! (we can try to fix it before going to gsi)

=> Test Beam => Data Taking



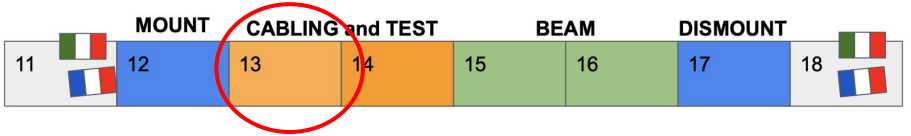
- Uli safety/general Instruction :)
- Dosimetry and co..

- **Detector setup in cave => <u>No more than 6 people at the same time..</u>**
  1) Mechanics (table and supports) (1h)
  2) TOF WALL and DCH (1h)
  3) TOF Wall and Margarita (1h)
  4) Vertex and Calo (1h)
  5) MSD and Calo (1h)

IN CAVE

- **Electronics and Cabling Detectors in cave => <u>max 6 people</u>**
  6) TOF WALL and DCH (1h)
  8) TOF Wall and Margarita (1h)
  9) Vertex and Calo (1h)
  10) MSD and Calo (1h)
  11) DAQ (1h)

=> Test Beam => Data Taking



- SETUP of the people..
- setup for DAQ/TRIGGER/GENERAL CONTROL
- **PC SETUP in control room=>**

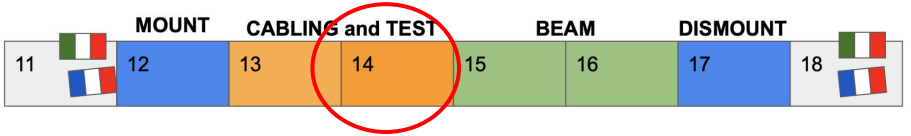
IN CONTROL ROOM

1) ..
2) Out signals.. MJ, Trigger, ..
3) 4 ch Oscilloscope in remote control (2 analog ch of DCH?, MJ)
4) Something to check the beam.. :)

No more than:

- **2+1 people Control Room**
- **8 people in “open air tables”**

=> Test Beam => Data Taking



- **Connection to software in cave => <u>max 6 people</u>**

IN CAVE

- **General system setup in cave**
  12) Trigger (2h)
  13) DAQ (2h)

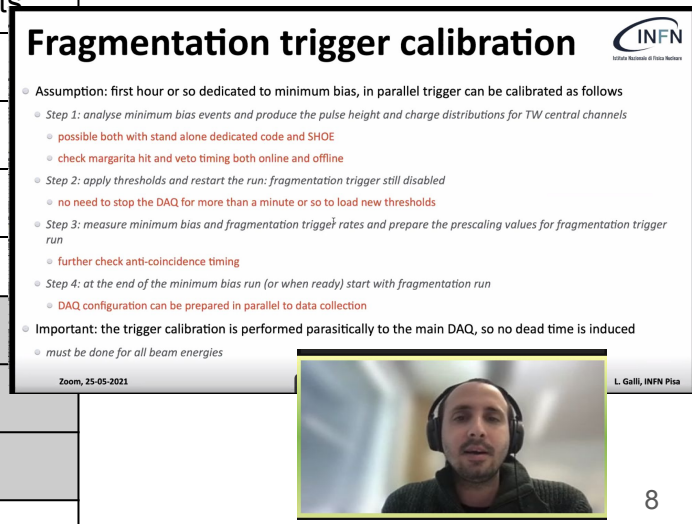
- **Switch on detector and fix problem (noise for example) in cave**
  14) TOF WALL and DCH (1h)
  15) TOF Wall and Margarita (1h)
  16) Vertex and Calo (1h)
  17) MSD and Calo (1h)

We are planning to bring a second wavedaq create to run in oscilloscope-modality outside the DAQ system ..

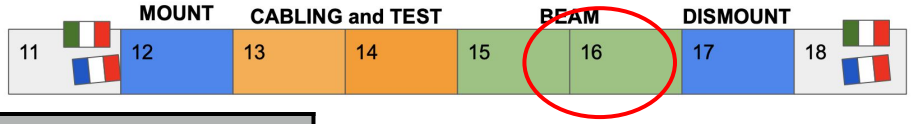
=> Test Beam => Data Taking

	Calibration with Oxygen beam		
Energy	**GSI machine energy setup**	**200 MeV/u**	
Target	Detectors must removed from the beam line	**no**	**yes**
Margarita	x	and a dedicated Delta Cable Run	
TOF wall	x	How many points?	100kevents*
DCH	x	alignment	
Vertex	x	alignment	
MSD	x	x	
Calorimeter	x	x	x
DAQ		x	x
Trigger		x	x
Software		x	x

Es.

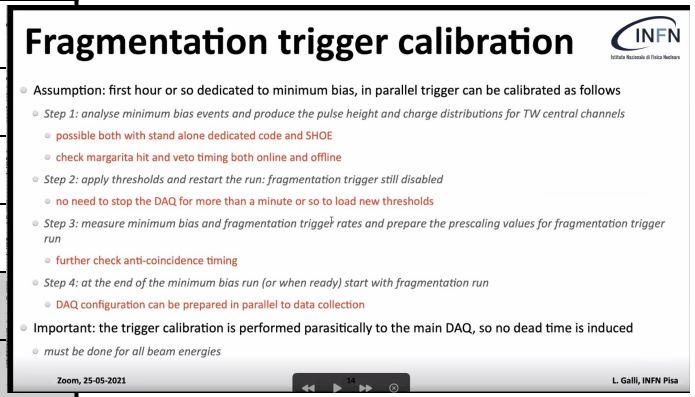


=> Test Beam => Data Taking



	Calibration with Oxygen beam		
Energy	**GSI machine energy setup**	**400 MeV/u**	
Target	Detectors must removed from the beam line	**no**	**yes**
Margarita	x	x	
TOF wall	x	x	10kevents*
DCH	x	alignment	
Vertex	x	alignment	
MSD	x	x	
Calorimeter	x	x	
DAQ			
Trigger		x	x
Software		x	

Remember that when we change energy we have to leave the beam to GSI



=> Test Beam => Data Taking

	Data Taking			
Energy	**200 MeV/u**		**400 MeV/u**	
Target	**C**	**CH**	**C**	**CH**
Thickness [mm]	5	5	5	5
Density [g/cm3]	1.83	1	1.83	1
Number of events		Tanti!		
Distance (Target-TW) [cm]	180	180	180	180
WaveDAQ frame rate				
Cross-section Measurements				

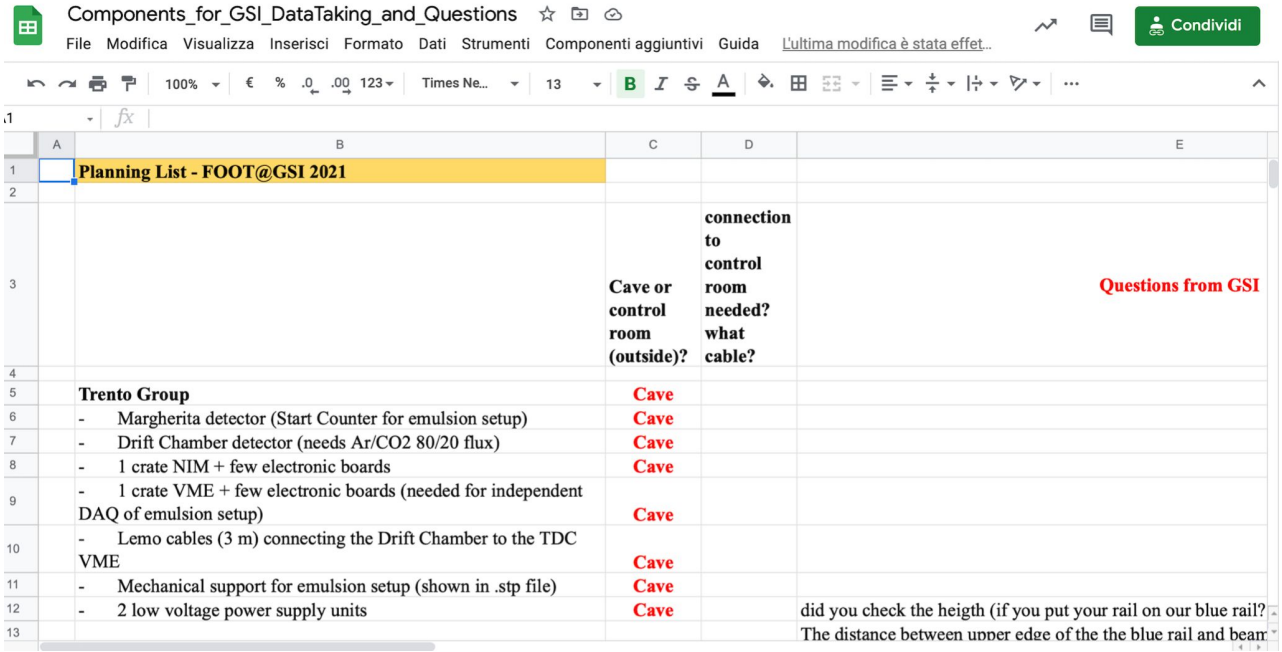
Do we agree on that? Maybe CH of 10 mm is a better choice?

Physics measurements to be discussed: when/who?

A long (but very close) way

- **Next meeting: 7th June 9:30**

Please, fill/check the online Excel sheet for logistic:



Components_for_GSI_DataTaking_and_Questions

File Modifica Visualizza Inserisci Formato Dati Strumenti Componenti aggiuntivi Guida L'ultima modifica è stata effet...

Condividi

	B	C	D	E
1	**Planning List - FOOT@GSI 2021**			
2				
3		**Cave or control room (outside)?**	**connection to control room needed? what cable?**	**Questions from GSI**
4				
5	**Trento Group**	**Cave**		
6	- Margherita detector (Start Counter for emulsion setup)	**Cave**		
7	- Drift Chamber detector (needs Ar/CO2 80/20 flux)	**Cave**		
8	- 1 crate NIM + few electronic boards	**Cave**		
9	- 1 crate VME + few electronic boards (needed for independent DAQ of emulsion setup)	**Cave**		
10	- Lemo cables (3 m) connecting the Drift Chamber to the TDC VME	**Cave**		
11	- Mechanical support for emulsion setup (shown in .stp file)	**Cave**		
12	- 2 low voltage power supply units	**Cave**		did you check the heigth (if you put your rail on our blue rail?
13				The distance between upper edge of the the blue rail and beam