

# **September CNAO data taking**

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# Tracker tests

## Summary of tests to be performed

- Check the IT cabling (detector map)
- Threshold scan
- DAQ tests

A Sr90 source (few hundreds of Bq) can be used in the Experimental Room, availability confirmed by Michele, he also confirms that irradiating again the IT on September does not change anything for the release of the object.

- Detector map and basic checks

## Beam tests

- Energy/Threshold scan with protons for VTX/IT
- 200 MeV/u C for global alignment, for IT inter/alignment, for test global tracking w/o magnetic field?
- The plan depends also on the results obtained the 3<sup>rd</sup>-5<sup>th</sup> September on IT

The following detectors will be involved

- SC, BM, VTX, IT, MSD, TW

# Detectors

All detectors should be installed on the table the 2 afternoon / 3 morning, so to finish the alignment procedures on wednesday lunchtime. Just a brief summary:

- SC: easy to install, non particular requirements
- BM: The gas bottle needs to be transported at CNAO
- VTX: Will arrive with the DAQ, installed on the table after the checks on the IT
- IT: installed on the table in the 2 morning - first thing, so to give as much time as possible for the checks
- MSD: installation depends on the preliminary activities performed on the IT
- TW: cabling can be done in parallel on Tuesday, also the alignment is independent, if lasers are not covered.

# Detailed plan

Day: 1 Sept																								Meccanici			DetectorExp			DAQ		
0:00 1:00 2:00 3:00 4:00 5:00 6:00 7:00 8:00 9:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00																																
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- No access will be possible in the weekend, except for the allocated beamtime**
- Access to the experimental room is possible from about 9:00 to about 17:30 in working days**
- The weekend of 30 - 31 of August there will be another group in the Experimental room**
- Alessio (CNAO) available in the week**

# Days for beam tuning

Day: 10 Nov Access to EXPR. ROOM	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Meccanici	DetectorExp	DAQ
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Day: 11 Nov Beam Tuning/Alignment	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Meccanici	DetectorExp	DAQ
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Day: 12 Nov Beam Tuning/Alignment	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Meccanici	DetectorExp	DAQ
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Day: 13 Nov beam Tuning/Alignment	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Meccanici	DetectorExp	DAQ
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- **No other groups in the Experimental room between these days and the data taking!**

**The discussion with Alessio about the alignment has been postponed to the beginning of the next week, in principle it has to be done the 10-11 November, but stay tuned.**



# Physics data taking (part I)

Day: 17 Nov Access to EXPR. ROOM																								Meccanici	DetectorExp	DAQ	Calo	
	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00				
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# Physics data taking (part II)

[illegible]

- ***Access in the experimental room for installation and tests only in the green slots (with some approx.)***

# Radioprotection and Safety

- All the materials that will be used in the data taking have been already used in the past at CNAO. If not, please let us know.
- Most of the medical certificates are expired, please provide us the new ones.
- The Local Coordinator (or a delegate) of each group participating in the September data taking must send us the list of people involved in the test, specifying whether or not they are exposed, so that we can verify the required documentation with CNAO. Please also indicate if any of the people involved have a different employer compared to the last data taking (e.g., postdocs with new contracts). **THIS IS URGENT BECAUSE AUGUST DOESN'T COUNT!**