

# Data-taking @ CNAO status report

The run coordinators

[giacomo.traini@roma1.infn.it](mailto:giacomo.traini@roma1.infn.it)

[giuseppe.battistoni@mi.infn.it](mailto:giuseppe.battistoni@mi.infn.it)



# Status

---

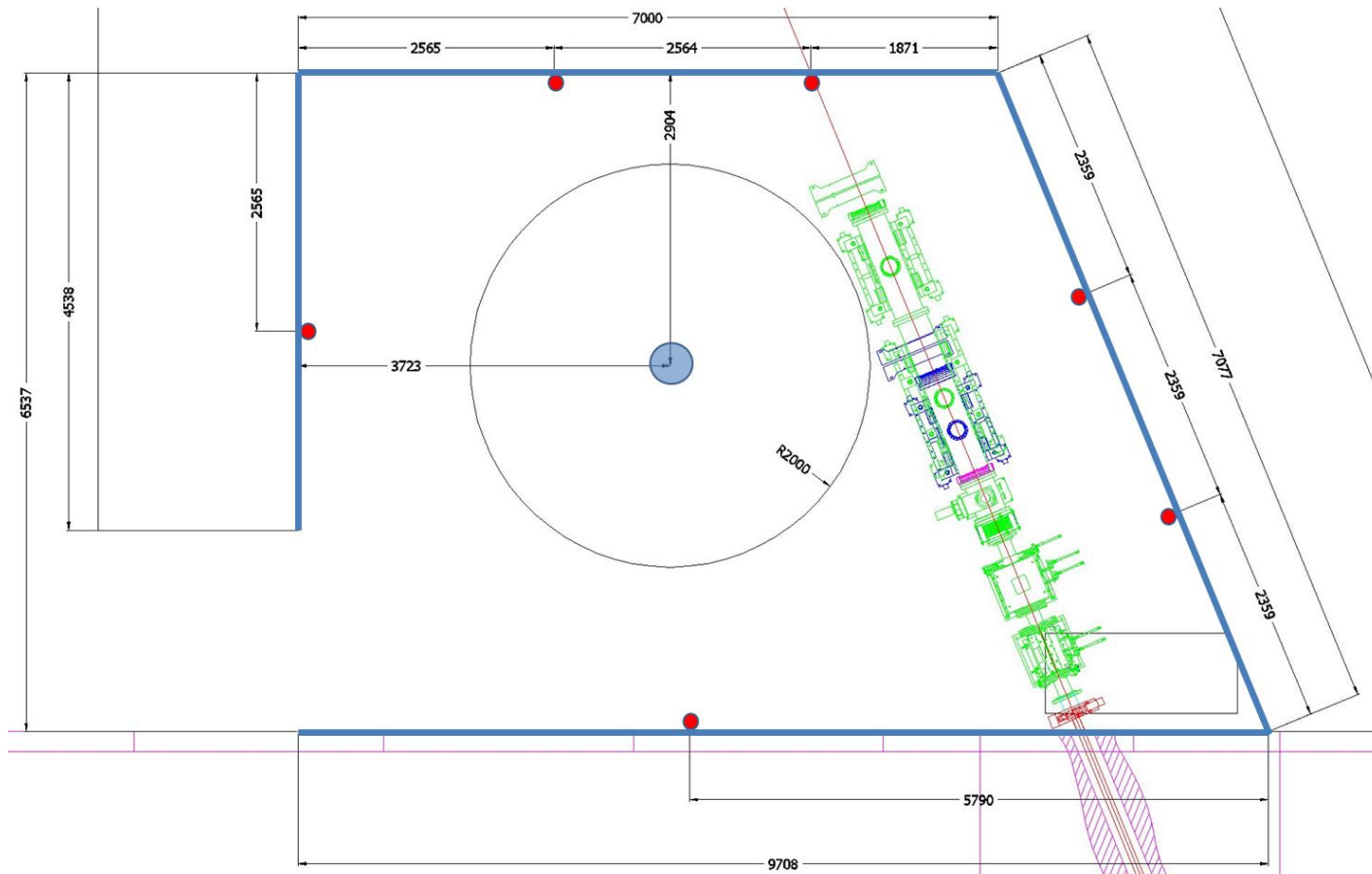


- At the end of October CNAO has announced that **all the non-health related activities are stopped** (until a still unknown date)
- However, due to a delay in the ventilation system construction, the experimental room would not been available for December, and also without COVID the data taking could not have taken place in the scheduled period.
- As discussed by the IB, a possible realistic scenario foresees a first test in **spring 2021**, mainly focused on detectors calibration and trigger test, followed by a data-taking in **autumn 2021** (hopefully with the magnet), mainly focused on physics measurements.

# Technical information



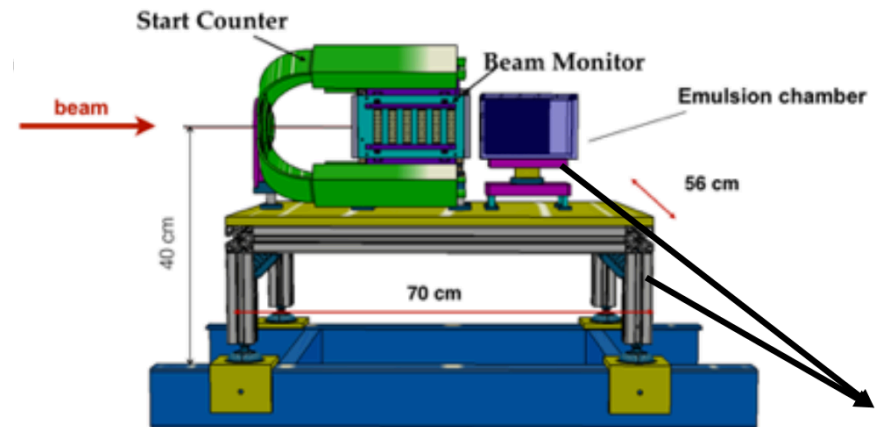
- We have collected all the technical information (detectors mechanical supports size, power absorption) needed to plan the FOOT apparatus integration in the CNAO experimental room



# Emulsion run



- We had a meeting with Marco Donetti to check the possibility to stop the beam when a certain number of particles has been counted by the ST.
- The answer is **yes**. We can gate the beam delivery using a proper signal, that has to be connected in a panel placed in the control room.



# Network



- We had a meeting with the CNAO IT responsible and the DAQ group to discuss the aspects related to the network access.
- An access to the external network outside CNAO will be setup in the exp. room to allow the copy of the collected data from the DAQ workstation on the TIER3 server.
- The wi-fi network is already present and the the use of the common software for communication (zoom, meet ecc) will be guaranteed.



# Next steps

---



- We are continuing to prepare the documents needed for the access @ CNAO. We will circulate the updated templates in the next future.
- The next meeting to be scheduled will be focused on:
  - Trigger (strategy to test in the spring data-taking)
  - Neutrons setup
  - Physics (discussion of a possible physics run time schedule on the base of the # of ions needed to perform the measurement and DAQ rate)

# A possible proposal for 2021

---



- 1) CNAO: a calibration dedicated run could be envisaged in spring
- 2) In July we have been assigned a couple of  $^{16}\text{O}$  shifts at GSI
- 3) We could schedule a full run at CNAO in autumn. At that time there could be a chance to have also Magnets and ITR

Notice that the available beam time have to be re-considered