



# COMPASS 2022 run 4<sup>th</sup> weekly meeting

Friday, May 13<sup>th</sup> 2022

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# Update on the water leak

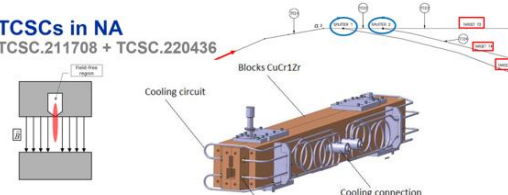
- Last week, on Friday, an intervention was foreseen to solve a water leak in a TCSC (beam splitter before T2,T4,T6 targets)
- The intervention was expected to take several days
- Estimate was: beam back on Wednesday 11/05
- Fortunately, the intervention was successfully performed already on Saturday 07/05
- Since then, stable beam (for NA64mu)
- Few accesses since then (generally ~30 minutes per day)

## Water leak issue

The issue and the proposed solution being discussed in these minutes 306<sup>th</sup> IEFC Meeting [link.indico](#)

### TCSCs in NA

TCSC.211708 + TCSC.220436



- CuCrZr masses clamped, and water cooled with shapes matching the downstream Lambertson magnets, intercepting a fraction of the incoming proton beam (35 kJ, several kW up to few tens of kW depending on splitting ratio)



### Gasket



A.M., Slide from last Weekly Meeting (06/05)

# Getting ready for the run

This week (06-13/05) in brief (more in Christophe's report – round table)

- Several activities on the spectrometer, among which

Target → polarization in - ++ - configuration

GEMs → HV switch on, pedestals, noise, inclusion in DAQ, ...

DCs → noise, investigation on srcID 259 giving errors (DC0), ...

STRAWs → broken wire near the physical hole, HV issue,

MW2 → investigation on trips, HV, TDCs issues

DAQ → inclusion of RW, MWPCs, MW2, ...

...

- SM1 and SM2 ramping test – successful

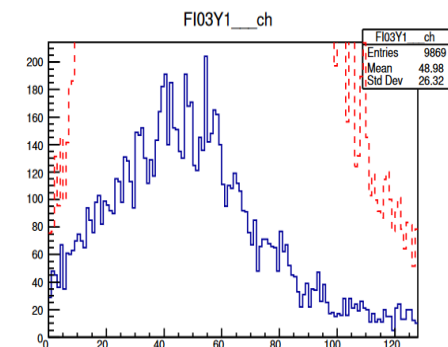
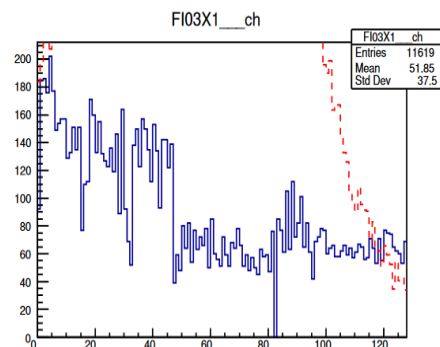
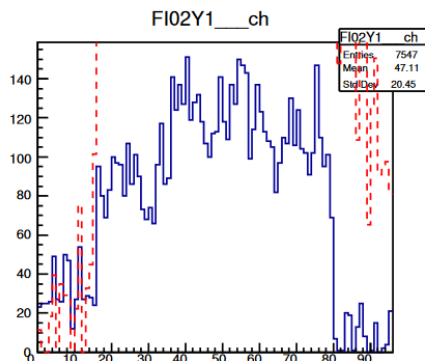
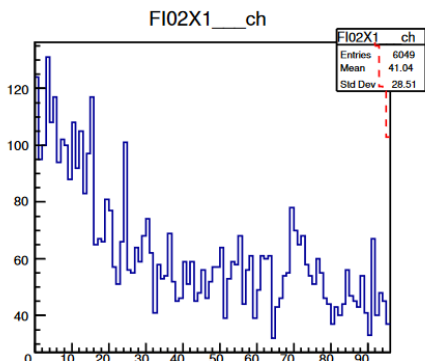
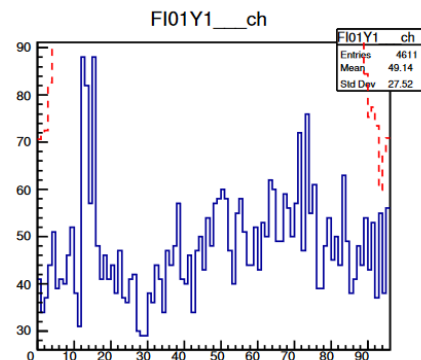
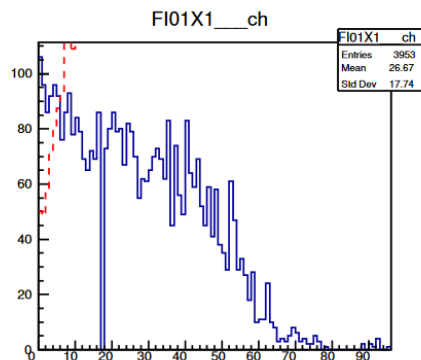
# (NA64mu) muon beam

After adjusting the currents in BEND8, BEND9 (after NA64mu dipole)

-Thanks to Moritz-

Signal on FI01, FI02 (upstream the target)  
FI03 (downstream)

Off centered in X, expected  
FI02, FI03 ~ centered in Y



# Organization of shifts and coordination

- Until the changeover (16-17/05) : one shift per day, one shifter
- AMBER tests (18-19/05) : reduced shift (one shifter)
- From Friday 20/05 : regular shifts + week coordination (Moritz)  
please sign up!

- |  |              |
|--|--------------|
| • Beam coordinator & C000L expert          | Moritz       |
| • Beam reconstruction, centering, steering | Jan          |
| • Beam monitor (scalers)                   | Jan          |
| • Online event display                     | Jan, Vincent |
| • Analysis of C000L histograms             | Andrea M     |
| • Monitors DAQ, DET                        | Vladimir F   |



# Roadmap

see attached file



# Detector round-table

Christophe