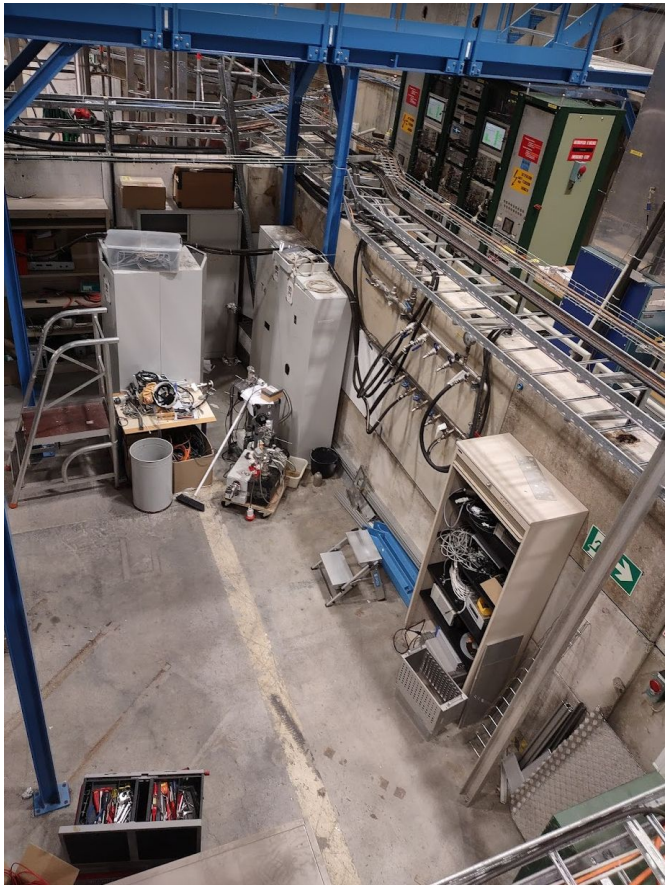
ASACUSA@SMI 27/4/21

Alina, Andi, Eric, Volkhard and Dan

General

ASACUSA is back on the demineralised water supply

We were forced to deal with the cupboard mountain due to lack of space for craning (we moved Hori’s cupboards into his area)



Cold Bore

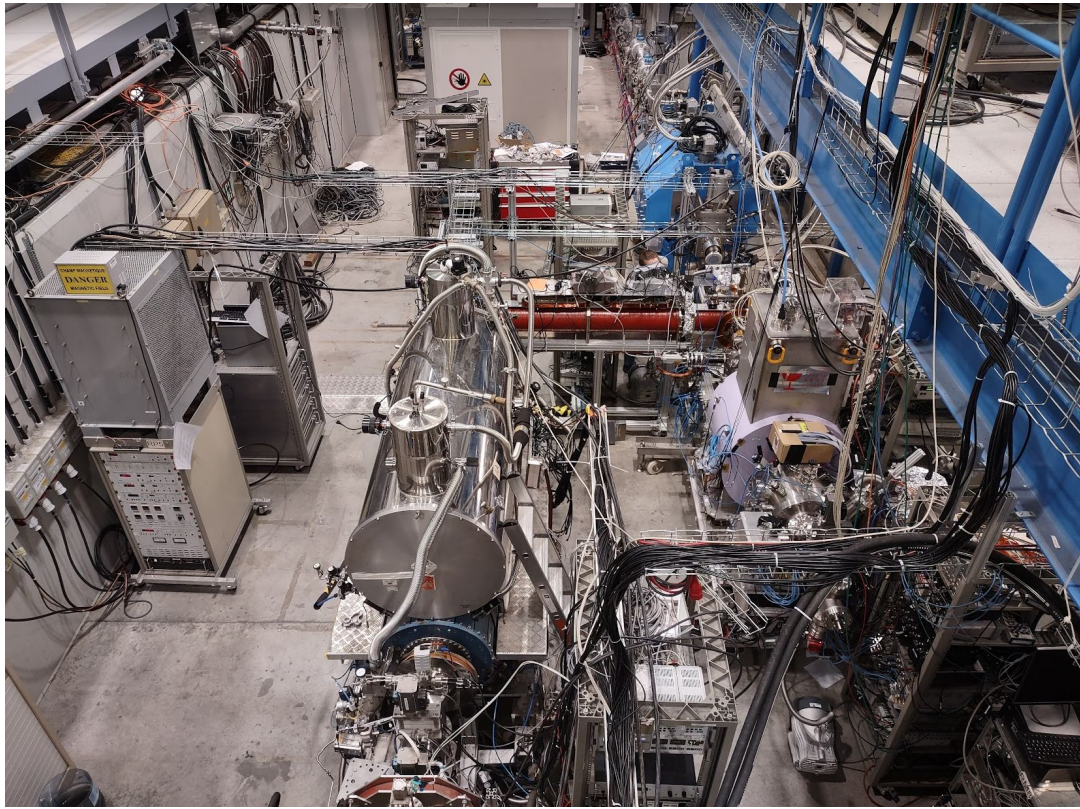
It seems Vacom have some delay and we will not receive the large outer chambers until the 23rd of August.

Doris is (angrily) investigating why this delay occurred as they were supposed to arrive at SMI this week.

The other parts will be shipped this week and we will begin construction of the trap once parts arrive at CERN.

The big push

We moved the entire experimental apparatus 1m downstream from it’s previous position allowing MUSASHI to be brought roughly onto the ELENA beam line.

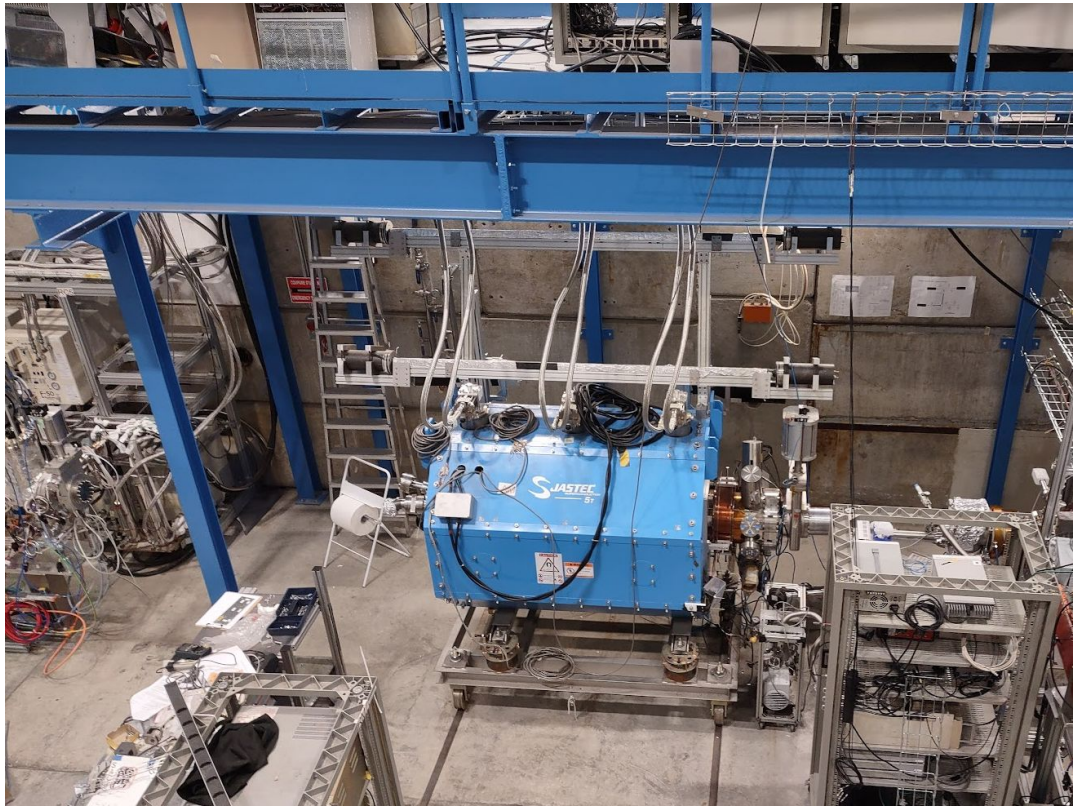


MUSASHI

The cryo-lines for MUSASHI have been connected

Kuroda will come 11th August to 13th September and Tajima 14th August to 4th September

Dan-san will be at CERN with them through this period to help and supervise.



Kuroda's start up schedule

This is Kuroda-san's schedule for bringing MUSASHI online

It seems quite optimistic and intense

We will do our best to help him to succeed but there is still a great deal to do

starting up the MUSASHI trap: Week 32

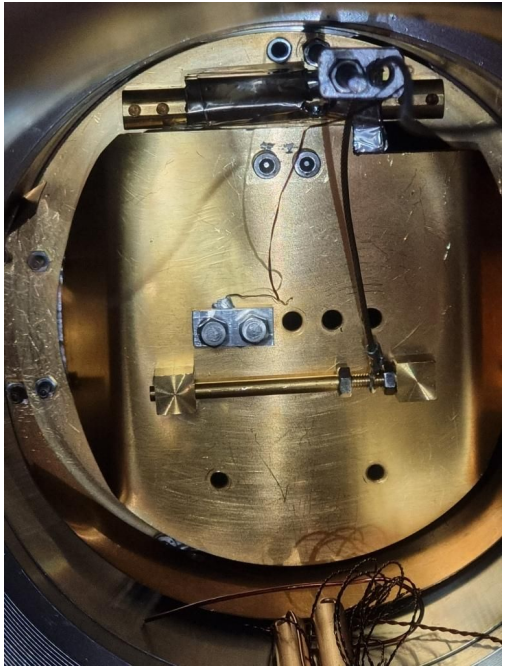
Aug.	Drift tube	MUSASHI trap	
9 – 10	drift tube at AD? open transport box, crane-in the zone		
11	alignment by surveyor connection to the LNE05 GVs (control, air)	alignment by surveyor OVC pumping	for DCUSP
12	connection to the MUSASHI start pumping leak check, TMP start	Bore pumping	NK@CERN
13	baking	leak check	He gas 60
14	baking	start cryocoolers	
15	baking		

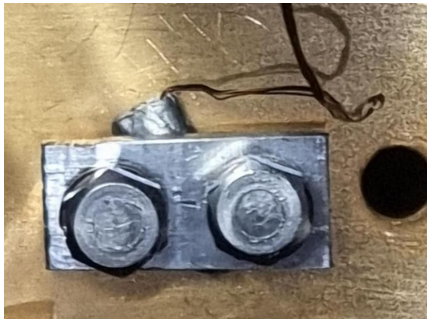
starting up the MUSASHI trap: Week 33

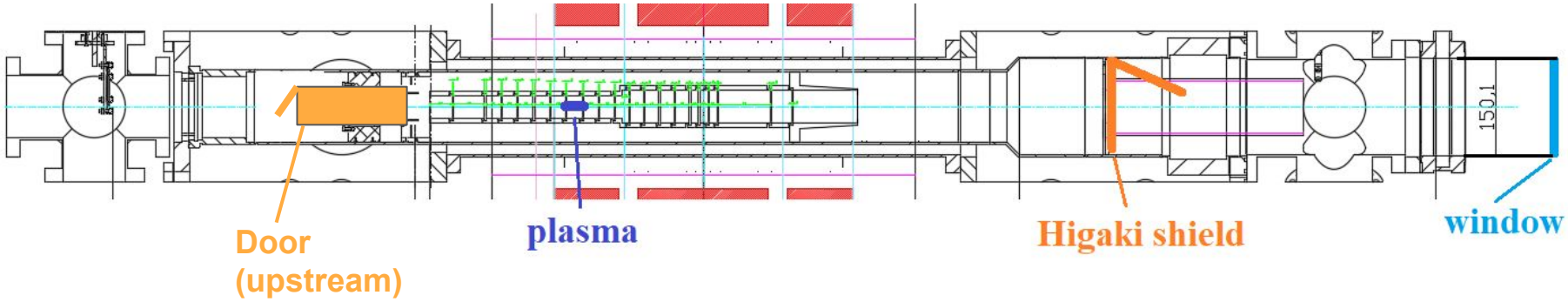
Aug.	Drift tube	MUSASHI trap	
16	assemble control box	stop OVC pumping cabling Čerenkov Scintillator paddles track detector	MT@CERN?? exchange coldhead of DCUSP?
17	assemble control box	connect pulse coils	Liq. N_2 precool
18	HV test? trigger test	trigger test	Liq. N_2 precool?
19	HV test?	energise the magnet	
20		electron trap test	
21		electron trap test	energise the magnet?
22			

Downstream

Added a temperature sensor to the downstream thermal shield (formerly known as the Higaki shield)

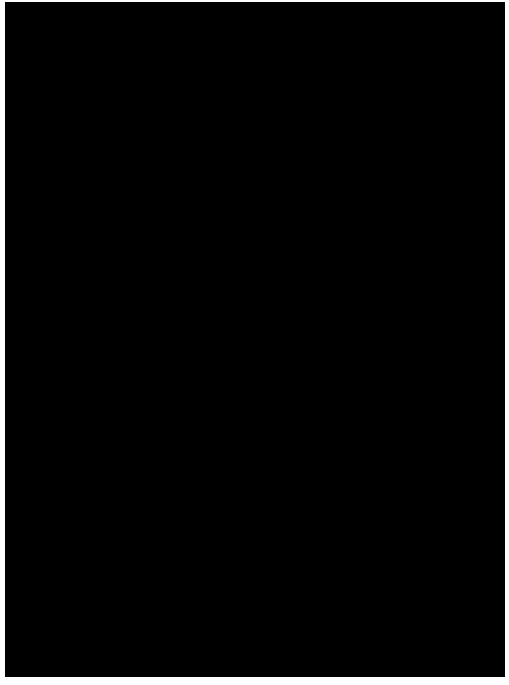


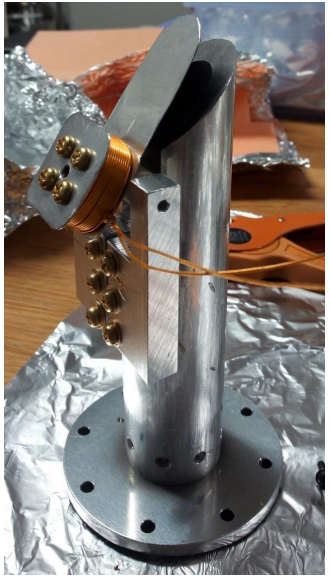


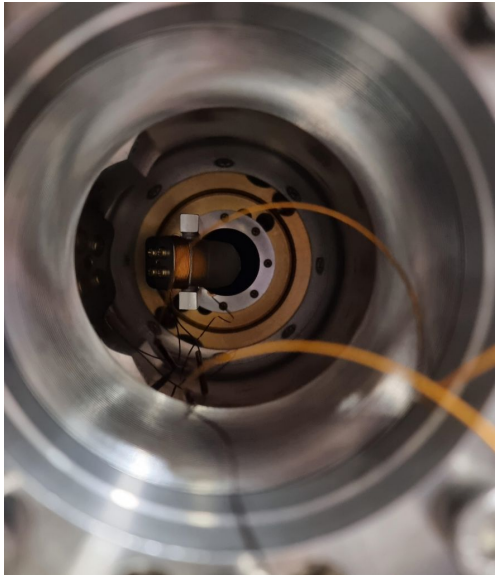


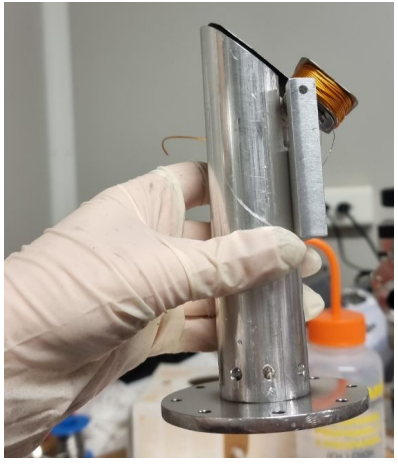
Upstream

Installed temperature sensor and door on the upstream thermal shield









Positrons

First moderator and slow beam for 2021 produced yesterday, over the next few days we will work towards trapped positrons.

The positron accumulator (annex) is expected to arrive in the next week or so from Milan and Giancarlo is here to work on it.

The aim of experiments in the trap will be to produce high repetition rate bunches to fill the accumulator before transferring to the Cusp.

Useful Links

CERN visits : Spreadsheet please enter confirmed visits by shading cells green and, planned but not confirmed visits by shading cells yellow.

eLog : Our elog is available at http://asacusa-cern.eu/HBAR/ we use a single user.

This is accessible from any computer no VPN/CERN access required.