



UPPSALA  
UNIVERSITET



# ESS weekly meeting (2021 W47)

A. Miyazaki et al.

# General planning: HL-LHC magnet under test



FREIA Planning		2021-11-04														2022			
		October				November				December				January					
Equipment	Responsible	27	4	11	18	25	1	8	15	22	29	6	13	20	27	1	8	15	22
		week #																	
		39	40	41	42	43	44	45	46	47	48	49	50	51	52	1	2	3	4
Liquefier & 2K pumps	Esat	Blue	Blue	Yellow	Yellow	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Grey	Grey	Blue	Blue	
RF power stations	Mykhailo				Green		Green		Green		Green		Green		Grey	Grey		Green	
Cryomodule test stand	Akira	CM04	Yellow	Green	CM03	Yellow	Green	Yellow	CM06	Yellow	Green	Yellow	Green	Grey	Grey	Yellow	CM07	Yellow	
Hnoss	Rocio	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	Grey	
Gersemi (plan A)		Red	Red	Red	Red	Yellow	Yellow	Yellow	Blue	Yellow	Blue	Yellow	Blue	Grey	Grey	Yellow	Yellow	Blue	
Gersemi - cavity insert	Akira													Grey	Grey				
Gersemi - magnet insert	Kevin					test magnet				test magnet				Grey	Grey		CCT China		

We are here

Akira will be back

Send CM06  
Receive CM08

- We will cool down CM06 next week
- We will try to send CM06 to ESS around Christmas



# W46 & W47 progress



week		W46											
date		MON		TUE		WED		THU		FRI		SAT	SUN
		15-Nov		16-Nov		17-Nov		18-Nov		19-Nov		20-Nov	21-Nov
		m	a	m	a	m	a	m	a	m	a		
previous CM	<b>CM03</b>	departure to ESS		preparation of documents				publish test report					
present CM	<b>CM06</b>	coupler warm conditioning											
next CM	<b>CM07</b>	departure from Orsay		transport				reception at UU morning		thermalization at UU			

week		W47											
date		MON		TUE		WED		THU		FRI		SAT	SUN
		22-Nov		23-Nov		24-Nov		25-Nov		26-Nov		27-Nov	28-Nov
		m	a	m	a	m	a	m	a	m	a		
present CM	<b>CM06</b>	Beckhoff motor driver test											
next CM	<b>CM07</b>					reception test LEMO		waiting in the docking area					
next next CM	<b>CM08</b>	preparation at Orsay											

**We are here**

- Main activity at Uppsala in W47 has been for magnet testing in the vertical cryostat & commissioning of a small cryostat CoW
- The motor driver will be at Uppsala in two weeks (?)



# W48 & W49 planning



week		W48											
date		MON		TUE		WED		THU		FRI		SAT	SUN
		29-Nov		30-Nov		1-Dec		2-Dec		3-Dec		4-Dec	5-Dec
		m	a	m	a	m	a	m	a	m	a		
present CM	<b>CM06</b>	Purging	N2 cooling	cooling down		4K filling	coupler cold conditioning	2K pumping	RF calibration at cold	MP conditioning		CTS thermalization	
next CM	<b>CM07</b>	doorknob mounting & water leak check						waiting in the docking area					
next next CM	<b>CM08</b>	preparation at Orsay											

week		W49											
date		MON		TUE		WED		THU		FRI		SAT	SUN
		6-Dec		7-Dec		8-Dec		9-Dec		10-Dec		11-Dec	12-Dec
		m	a	m	a	m	a	m	a	m	a		
present CM	<b>CM06</b>	CTS test at 2K		heat load measurements				start warming up		vent insulation vacuum		warming up	
next CM	<b>CM07</b>	doorknob mounting & water leak check						waiting in the docking area					
next next CM	<b>CM08</b>	preparation at Orsay											

**Maybe still with  
Phytron (?)**



# W50 & W51 planning



week		W50											
date		MON		TUE		WED		THU		FRI		SAT	SUN
		13-Dec		14-Dec		15-Dec		16-Dec		17-Dec		18-Dec	19-Dec
		m	a	m	a	m	a	m	a	m	a		
previous CM	<b>CM06</b>	disconnect cryogenic lines	swap modules	filling dry N2		doorknob dismounting	outgoing test (LEMO, VNA) shock sensors	activate shock sensors, close the box		waiting in the box			
present CM	<b>CM07</b>	water leak check		connect cryogenic lines	beam pumps, leak check	beam vacuum pumping			RF calibration				
next CM	<b>CM08</b>	preparation at Orsay							departure from Orsay		transport over the sea		

week		W51											
date		MON		TUE		WED		THU		FRI		SAT	SUN
		20-Dec		21-Dec		22-Dec		23-Dec		24-Dec		25-Dec	26-Dec
		m	a	m	a	m	a	m	a	m	a		
previous CM	<b>CM06</b>	<b>departure to ESS</b>		preparation of documents				publish test report					
present CM	<b>CM07</b>	coupler warm conditioning											
next CM	<b>CM08</b>	transport over the sea					<b>reception at UU morning</b>		thermalization at UU				

**Goal of this year**