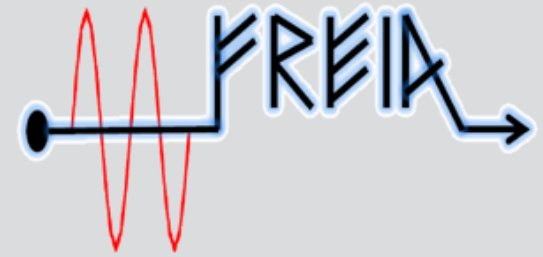




UPPSALA  
UNIVERSITET



# ESS weekly meeting (2022 W18)

A. Miyazaki, et al






# W17 & W18 progress / W19 plan



week		W17											
date		MON		TUE		WED		THU		FRI		SAT	SUN
		25-apr		26-apr		27-apr		28-apr		29-apr		30-apr	01-maj
		m	a	m	a	m	a	m	a	m	a		
present CM	<b>CM10</b>	fix Electrosys	coupler warm conditioning	LN cooling		LHe cooling		4K filling		coupler cold conditioning		thermalization	
next CM	<b>CM11</b>												
next next CM	<b>CM12</b>	Preparation at Orsay											

**We are here**

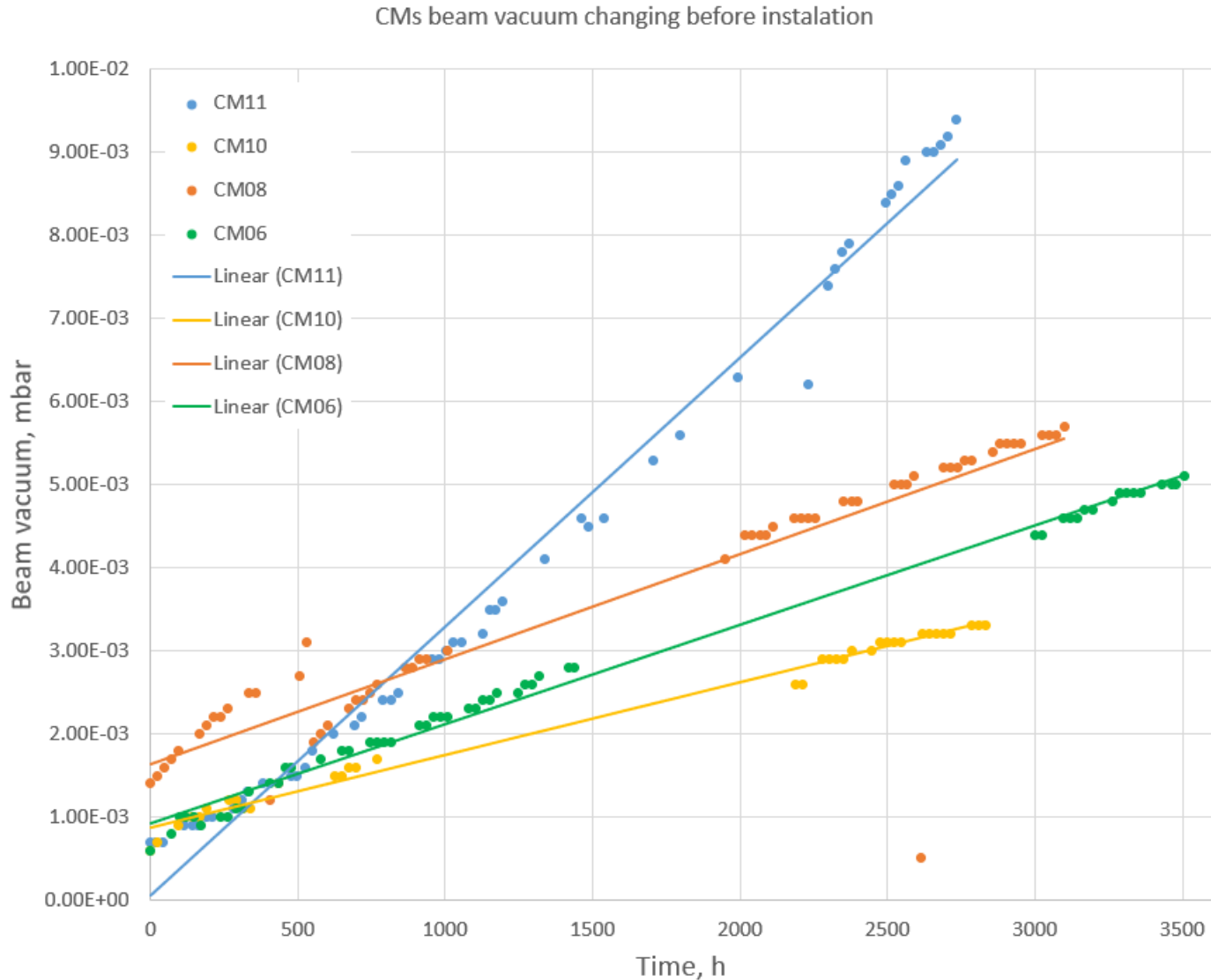
week		W18											
date		MON		TUE		WED		THU		FRI		SAT	SUN
		02-maj		03-maj		04-maj		05-maj		06-maj		07-maj	08-maj
		m	a	m	a	m	a	m	a	m	a		
present CM	<b>CM10</b>	2K pumping	RF calibration	tuner test 	tuner test continued / CTS2 disengage		RF interlock setup	CAVOUT MP conditioning	CAVIN MP conditioning				
next CM	<b>CM11</b>	leak test											
next next CM	<b>CM12</b>	preparation at Orsay											

**Goal of the test**

week		W19											
date		MON		TUE		WED		THU		FRI		SAT	SUN
		09-maj		10-maj		11-maj		12-maj		13-maj		14-maj	15-maj
		m	a	m	a	m	a	m	a	m	a		
present CM	<b>CM10</b>	heat load measurement / FREIA LLRF tests				start warming up		break insulation vacuum		warming up			
next CM	<b>CM11</b>	doorknob mounting											
next next CM	<b>CM12</b>	preparation at Orsay											

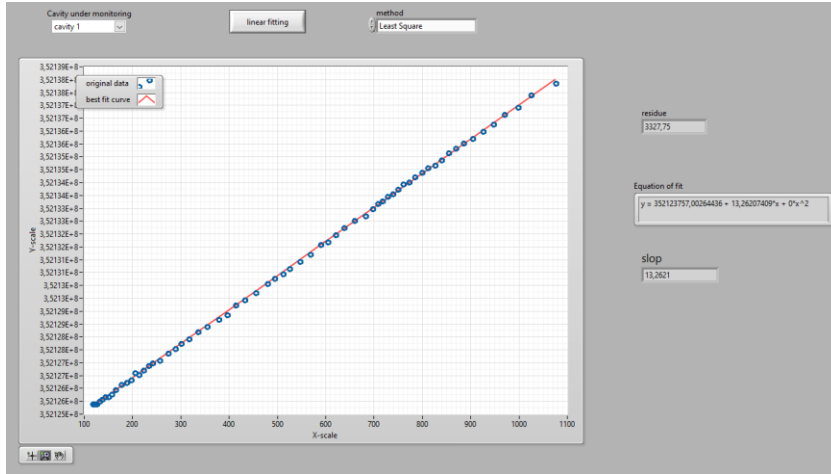
CM10 will not depart to ESS  
 → TBD: repairing at FREIA or IJCLab

# CM11: small doubt in vacuum **excluded**



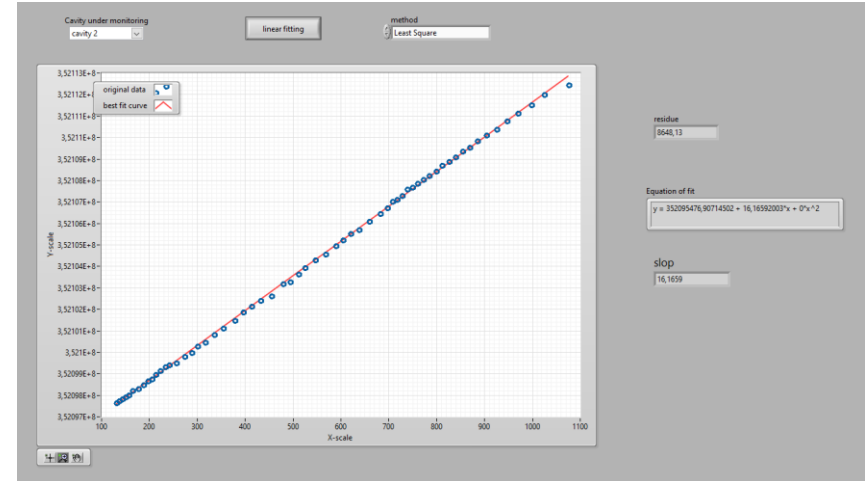
We performed a dedicated leak test (turbo + He leak detector) and confirmed no leak

## CAVIN

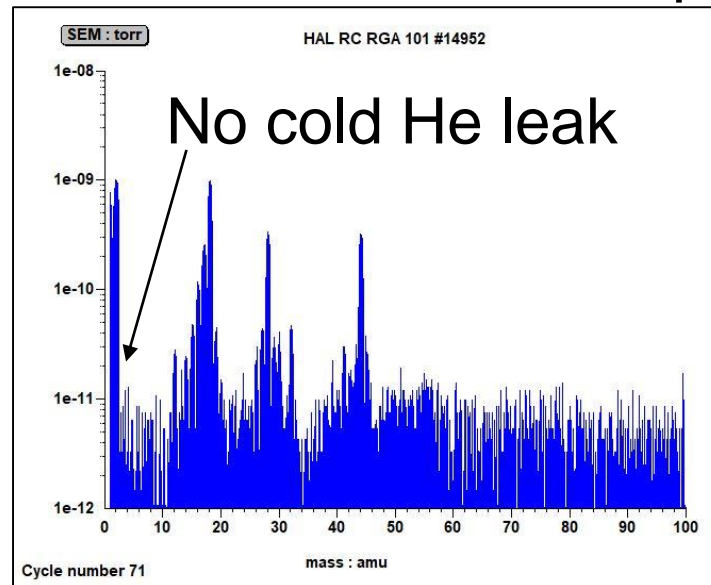


$df/dp = 13.3 \text{ Hz/mbar}$

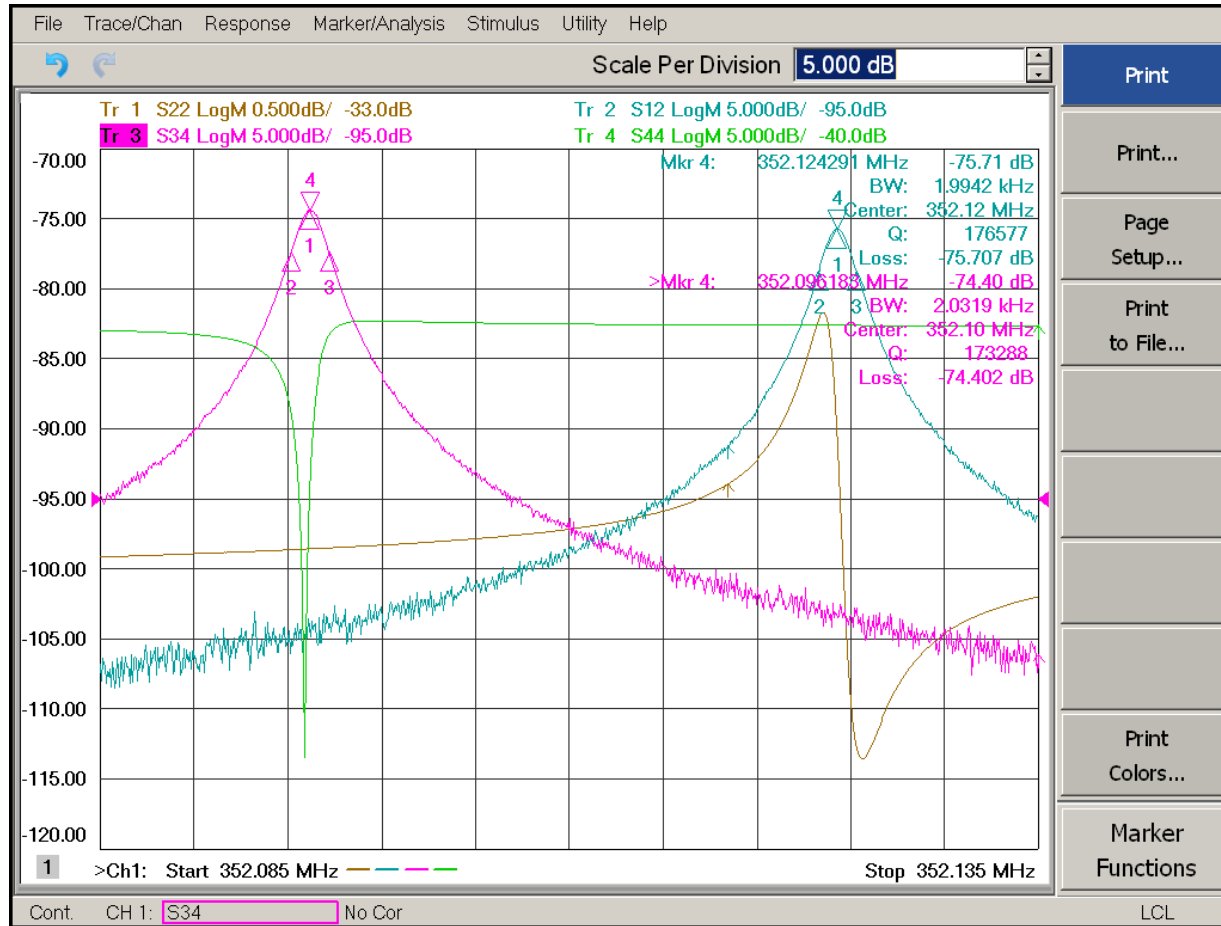
## CAVOUT



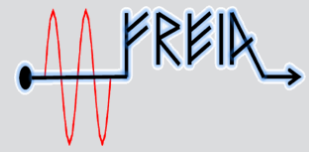
$df/dp = 16.2 \text{ Hz/mbar}$



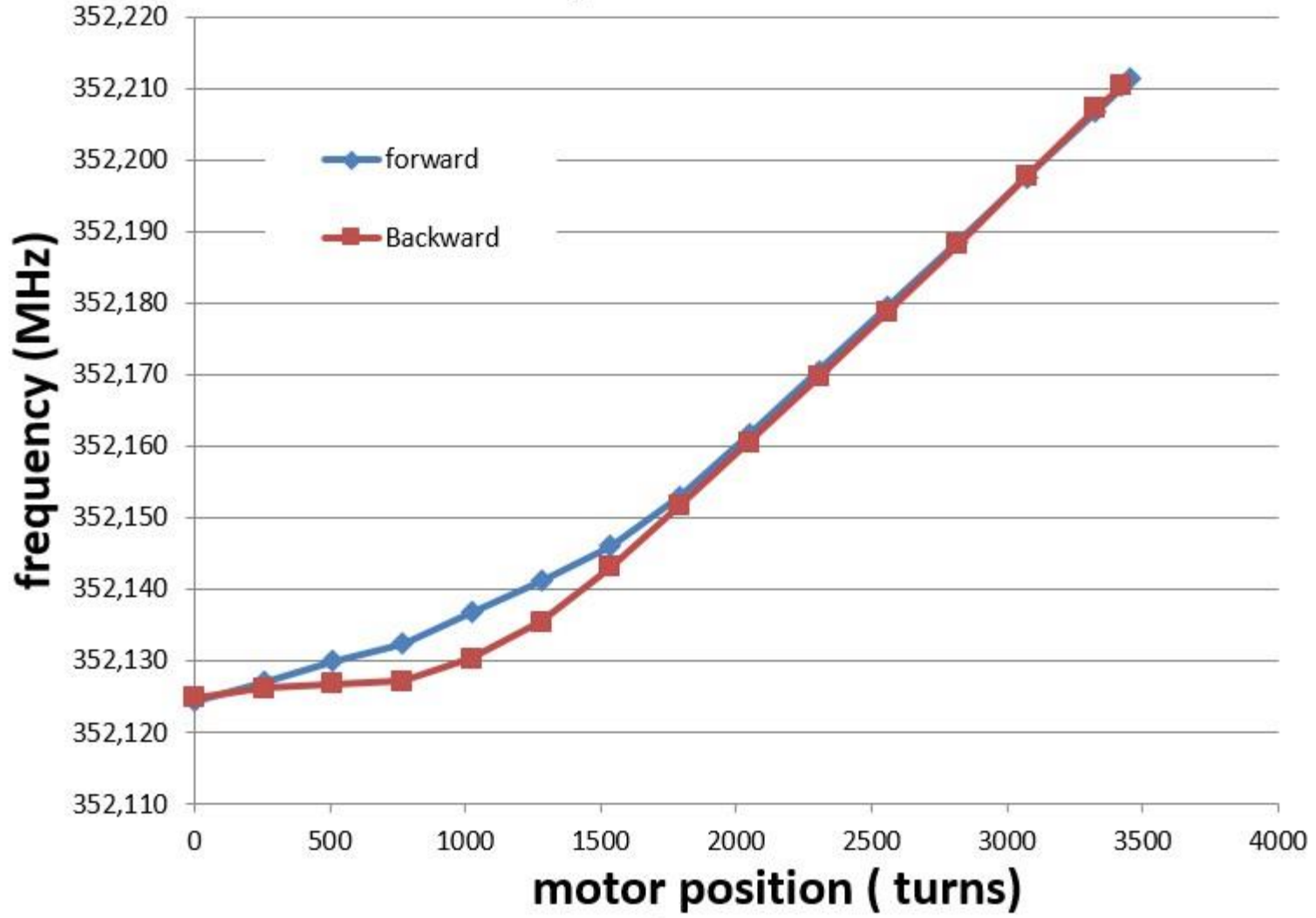
# CM10: cavity parameters at 2K home position

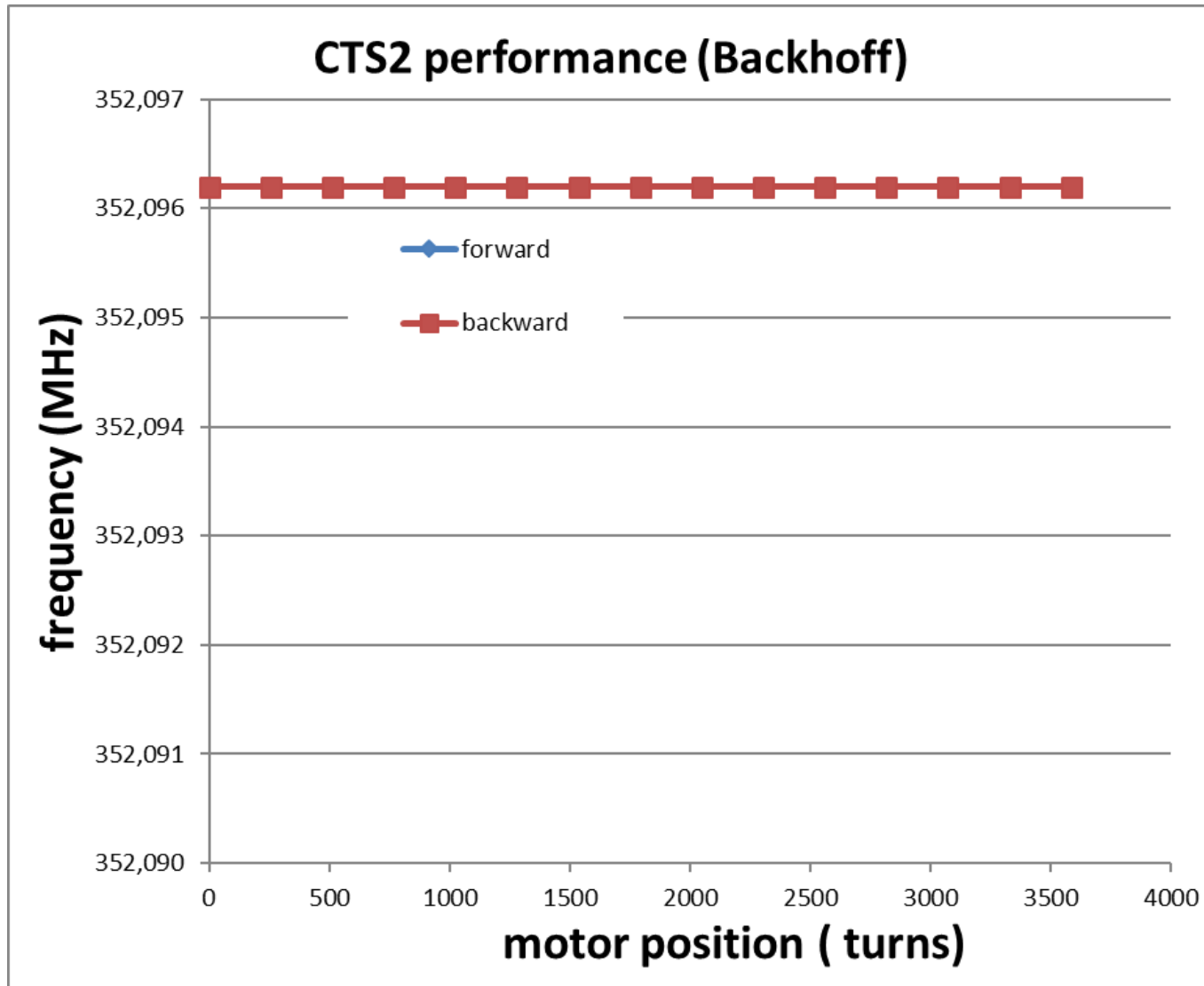


	CAVIN	CAVOUT
f0 [MHz]	352.124	352.096
QL	1.77e5	1.73e5

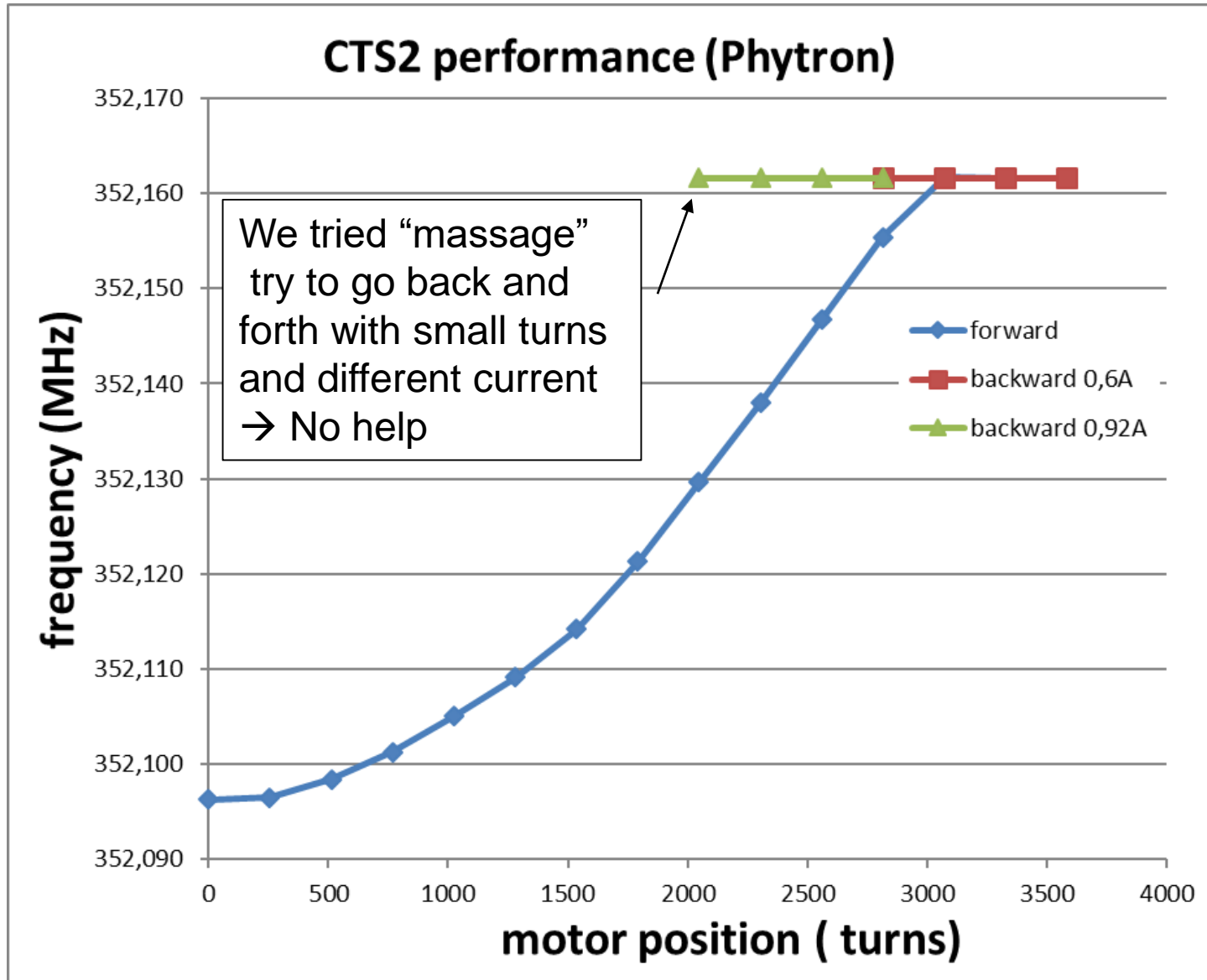


## CTS1 performance



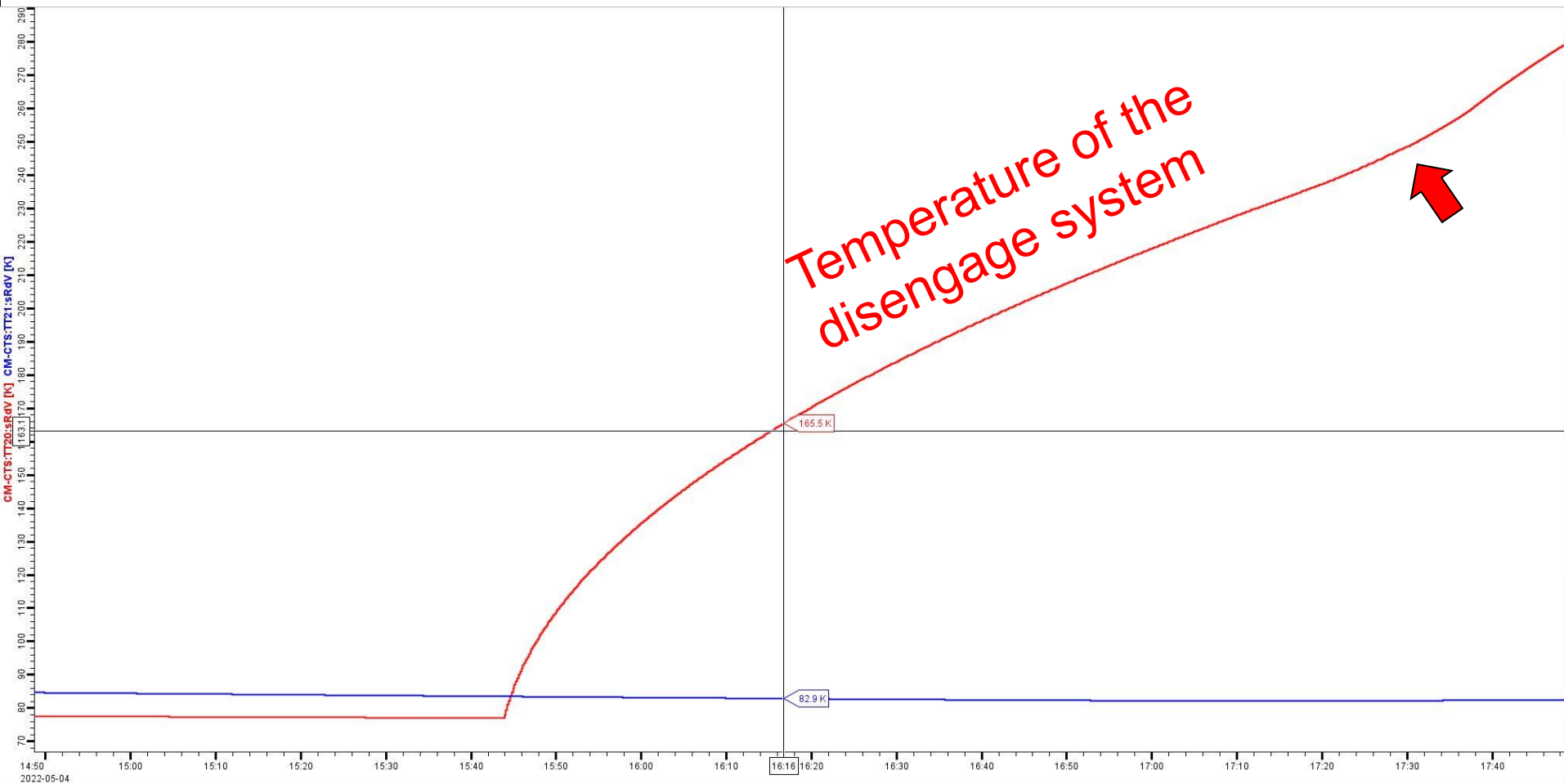








# CM10: CTS2 was disengaged



We kept it at 290K and tried to move the stepper motor back to the home position  
→ No limit switch signal even with 18 turns