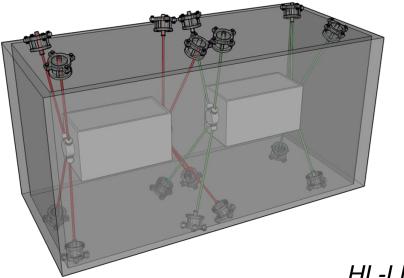


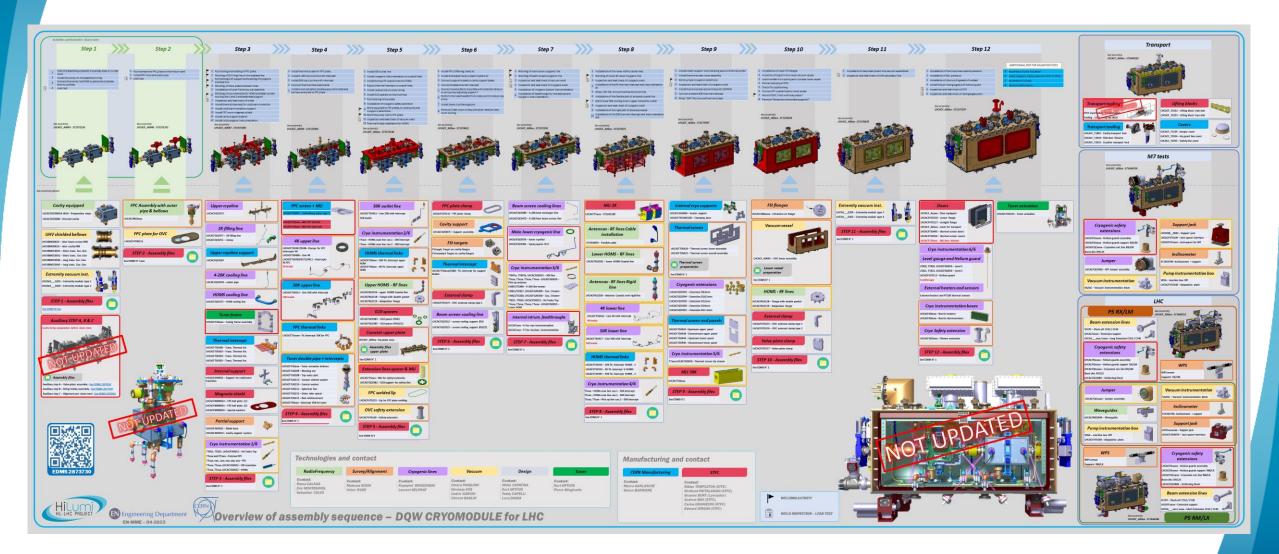
## Internal monitoring for Crab-cavities



Vivien RUDE / Mateusz Sosin 2024-07-03

HL-LHC Collaboration Triumf-CERN

## From Teddy Capelli





	Step	
Part 0 : CMM data	0	Validation of trolley
		Position of the capacitive plates w.r.t. external references $\rightarrow$ CERN
		Valve plate measurement
Part 1 : in clean room	1-2	Alignment in ISO5 (before connection in ISO4)
		Alignment in ISO5 (after connection in ISO4)
Part 2 : before cryostating	4-5	Alignment of different equipment
		Installation of FSI supports
		Measurement of FSI supports
		Installation FSI targets
Part 3 : cryostating (top plate)	6	Alignment of the cavities before cryostating
		Measurement of the top plate cryomodule
		Alignment trolley and top plate
Part 4 : cryostating (OVC cryomodule)	10	Measurement of the OVC cryomodule
		Alignment top plate and OVC cryomodule
Part 5 : after cryostating	10	Installation of FSI heads on OVC and top plate
		Measurement of FSI heads on OVC and top plate
		FSI validation (comparison with a laser tracker)
		Alignment with adjustment system
Part 6 : cold test at Triumf	12	Measurement ambient pressure
		Measurement under vacuum
		Measurement at cold
Part 7 : cold test at CERN		Measurement ambient pressure
		Measurement under vacuum
		Measurement at cold



## Thank you for your attention

