

## Linac4 action list

	action	person	status	date
<b>SM18 high-power test stand</b>				
<input type="checkbox"/>	exchange pumps in bunker, replace ion with turbo pumps when module 3 is installed	JM/Jan	in preparation	14-Nov-13
<input type="checkbox"/>	buy 2nd power meter	Han	on 69742	
<input type="checkbox"/>	need automatic frequency tuning to compensate	Marc/Jose/ Nuaman	code ready, what is missing is implementation of signal delays and then testing,	
<b>movable tuners</b>				
<input type="checkbox"/>	prepare test of DTL type coupler with inclination	Jose/Yves/JM	horizontal test in preparation	3-Oct-13
<input type="checkbox"/>	fabricate dummy pistons and measure port diameters of CCDTL using dummy pistons	Yves/JM	started	14-Nov-13
<input checked="" type="checkbox"/>	decided not to use any guidance for piston stems	all		1-Nov-13
<input checked="" type="checkbox"/>	verify if piston diameters can still be reduced at CECOM	Frank	yes	23-Oct-13
<input type="checkbox"/>	measure alignment of MEBT pistons	JM/Yves		
<input type="checkbox"/>	equipment list for welding demonstration during CECOM visit until 15. Nov.	Yves/Franck M.		
<input type="checkbox"/>	list of discussion points until 15. Nov.	Alessandro/ Marco	first tuners to come should be CCDTL type	
<input type="checkbox"/>	flight/hotel bookings for CECOM visit	Frank/Laurie		
<input type="checkbox"/>	discussion points on coupler?	Suitbert/ Alessandro		
<input type="checkbox"/>	verify if we can re-machine (cut, machine, re-weld) pistons for MEBT tuners	Yves		
<input type="checkbox"/>	modification of plans until 15. November	Yves		
<input type="checkbox"/>	movable tuner installation on bunchers in week 48		will probably only be needed from week 50 onwards	
<input type="checkbox"/>	simulation of tuner geometry without rings (for RF joints)	Shakir		
<input type="checkbox"/>	try prototype on Indian coupler to see if penetration is sufficient for matching in SM18	Rolf/Jose		
<b>3 MeV installation in Linac4</b>				
<input type="checkbox"/>	RF tests of buncher amplifiers	Han/Jose	week 49-50	
<input type="checkbox"/>	scaffolding for RF feeder line installation	Han	week 47	
<input type="checkbox"/>	install RF feeder lines for buncher cavities	db	week 48-49	
<input type="checkbox"/>	install RF feeder line for debuncher	db	week 48-49	
<input type="checkbox"/>	RF tests on buncher amplifiers	Han/Jose	after above	
<input type="checkbox"/>	slug tuners are not yet cooled	Jose	after first tests,	
<input type="checkbox"/>	interlock tests/commissioning	Jose	ongoing	
<input checked="" type="checkbox"/>	buncher pick-ups are connected	Han/Jose		3-Oct-13
<input type="checkbox"/>	re-design and fabrication of buncher pick-ups	Yves/Frank/ JM	will be ready in some days	7-Oct-13
<b>waveguide couplers</b>				
<b>construction in India</b>				
<input checked="" type="checkbox"/>	prepare CERN-India meeting on October, 11th and clarify production strategy	Frank	gave mid-November as limit date to receive a conform Linac4 coupler,	
<input type="checkbox"/>	reminder that a conform prototype is expected mid-November	Frank		
<b>construction at CECOM</b>				
<input type="checkbox"/>	packaging of raw material (series) for CECOM	JM	will be delivered after acceptance test of pre-series, delivery will take place probably in October,	
<b>jacks</b>				
<input checked="" type="checkbox"/>	complete series of 2.5 and 5 t jacks	Yves/Suitbert	received everything (apart from one)	7-Nov-13
<input type="checkbox"/>	installation of jacks (CCDTL + PIMS1) before February 2014	Frank/Benoit	install DTL and CCDTL1/2 jacks later (conflict with measurement line), wait with PIMS	
<b>CCDTL</b>				
<b>assembly in SM18</b>				
<input type="checkbox"/>	quad installation module 6	JB	probably next week	17-Oct-13
<input type="checkbox"/>	quad installation module 7	JM/JB	one quad faulty	15-Aug-13
<input type="checkbox"/>	conditioning of module 3	JM/Jose/ Frank/ Nuaman		
<input type="checkbox"/>	verify if all survey results are done	Frank	waiting for EDMS links from Jean-Frederic	14-Nov-13
<input type="checkbox"/>	collect vacuum tests (EDMS) for all measurements made, need to clarify when vacuum group makes their "reference" measurement before installation.	Frank/Jan		
<b>DTL</b>				
<b>construction</b>				
<input type="checkbox"/>	fabrication of Al covers for ports for vacuum tests,	Yves	fabrication launched	
<input type="checkbox"/>	final machining of covers tank2,3			
<input type="checkbox"/>	delivery T3S2		some repair to be done at CERN	7-Oct-13
<input type="checkbox"/>	T3S3 connection to a water channel needs modification (now it does not connect to the actual channel)			
<input type="checkbox"/>	drift tube installation in T3S4	Yves	2 leaks on pick-ups found with the same leak rate, to be investigated, for pre-assembly molikote was used on screws, some dropped on Helicoflex joint and caused the leaks, one should always use silver plated screws instead, DT installation continues	14-Nov-13
<input checked="" type="checkbox"/>	assembly of T1S1 and T1S2	Yves/Suitbert	done on rotating support, survey of half tank alignment done, seems to be just within limits, t.b.v.	29-Sep-13
<input type="checkbox"/>	low-level RF measurements of tank 1		working on tilt compensation, frequency slightly too low,	3-Oct-13
<input type="checkbox"/>	last 24 drift tubes assembly + last weld + qualification		within next month	7-Nov-13
<input type="checkbox"/>	T2S2 some problems with concentricity and module length, verify if acceptable	Suitbert		14-Nov-13
<b>PIMS</b>				
<input type="checkbox"/>	go through Patricia's work on tuning curves for tuning islands, complete simulations, calculate curves and tables the 3 different cell types for cavity M	Rolf	good progress, so far we seem to be well prepared, cavity M done, continuing with L	
<input type="checkbox"/>	qualification of disc production for series	CERN workshop	ok given for discs of cavity 3 and 4 (coaxiality problem (4 times tolerance) => waiting for metrology of fully assembled cavity, steps on nose cone tip => waiting for high power test results)	
<input type="checkbox"/>	metrology of central disc M_8-9 and ring M_9-10	Rolf	not yet received, preparation for re-machining, should be done next week	17-Oct-13
<input type="checkbox"/>	assembly and inspection of cavity M	Rolf		
<input type="checkbox"/>	if time permits, optimise tuning of PIMS cavities (Octave routines, network analyser communication, intelligent tuning suggestion)	Rolf		
<input type="checkbox"/>	determine amount of re-machining for all discs cavity M	Rolf		
<input type="checkbox"/>	re-machining of discs cavity M	Rolf		
<input type="checkbox"/>	problem with ring M11-12 prevents green light for series until	Rolf	trapped volume of air can probably be opened to cavity vacuum	
<input checked="" type="checkbox"/>	rings for 3 cavities are sent to Jülich		ready and are now sent back to Poland	7-Nov-13
<input type="checkbox"/>	2nd waveguide ring will be done after disc machining			17-Oct-13
<input type="checkbox"/>	meeting with workshop to prepare reception of first cavity	Rolf	meeting slides,	
<b>windows</b>				
<b>SPL/HOM</b>				
<b>MTF</b>				
<input type="checkbox"/>	MTF input DTL	SR/RVT	drift tube data being uploaded,	
<input type="checkbox"/>	MTF input CCDTL	SR/FG/RVT	started	
<input type="checkbox"/>	MTF input PIMS	FG/SR/RVT	?	
<input type="checkbox"/>	MTF input buncher cavities	FG/SR/RVT		
<b>A.O.B.</b>				
<input type="checkbox"/>	revision of RF structure transport into tunnel (meeting with Catherina, Rolf, Suitbert, Frank)			
<input type="checkbox"/>	Han measured too high RF radiation (for interference limits, no issue with personnel safety) close to the RFQ klystron, MV needs to be informed and a report needs to be written	Han	?	7-Oct-13

# Operations & maintenance

	action	person	status	date
<b>shut-down work</b>				
	<b>Modulator</b>	Vince	done	
	HV power supply + hazemeyer and regulation are responsibility of power group, HV line and ignitrons and interlock is with us			
<b>Frank James</b>				
<input type="checkbox"/>	prepare a complete spare amplifier (apparently all pieces are available from Linac3 spare amplifier) until beginning of June 2014	Vince/Han/ Frank	missing is the ramping up of filament system, including testing ~60 kCHF, <b>agreement by Erk that this project will be financed one way or another</b>	
<input type="checkbox"/>	RFQ cavity base: try to remove some corrosion from all the fixed parts to avoid that rust gets into the movable parts, verify if there is a water leak (internal/external) responsible for corrosion and apply some spray...	Vince/JM	needs water to fully test,	
<input type="checkbox"/>	completion of 4 FJ amps (buncher, debuncher L2), capton needs to be ordered, installed tested (CU plating to be clarified)	Han		
<b>Linac2 maintenance</b>				
<input type="checkbox"/>	tuner maintenance	Vince	basically done	18-Jul-13
<input type="checkbox"/>	1. June first beam to isolate, so mid-may beam to PSB,		motors and switches done by us, if there is a problem with moving the tuners (dirt, grease) Richards section is responsible,	
<input type="checkbox"/>	interlocks still need to be connected/verified,			
	from now on the tunnel can no longer be accessed with RF on,			7-Nov-13
	a procedure is under discussion if we can access the tunnel with source off and RF on,			7-Nov-13
<input type="checkbox"/>	2 months of interlock tests are foreseen before start-up, which coincides with our amplifier tests,			
<input type="checkbox"/>	we need at least 1 month with continuous access to the RF system, we need 3 weeks with continuous access to prepare for an exchange of a power coupler before March 1st to do the measurements on the coupler which showed the problem (tank 1). Access to the gallery, to the tunnel, to the complete power transport line. + 1 week of tests with beam	Frank/Detlef, Jose, JM, Han, Vince	<b>Monday 2. December 10:00</b> discussion on RF commissioning of lilacs with Detlef, Richard, Christiano, <b>Tuesday 10. December 16:30:</b> planning meeting for hardware/beam commissioning + Jean-Michel	
<input type="checkbox"/>	contact Andy B to coordinate FESA commissioning	Jose		
<input type="checkbox"/>	start of shift operation 22. May/call out lists need to be defined			
<b>Linac3 maintenance</b>				
<input type="checkbox"/>	Linac3 maintenance	Vince	stopped until mid-September because a big AC unit was placed before the amplifiers to replace the regular unit during maintenance work	
<b>RFQD maintenance</b>				
<input type="checkbox"/>	for RFQD, we need one month before start-up, verify date	Frank	10. Aug: start of AD, 31. Aug: start AD physics	
<input type="checkbox"/>	start RFQD maintenance, beginning of July (1 month duration)	Vince/Jose		
<b>REX upgrade</b>				
<input type="checkbox"/>	opening of RFQ	Han/Vince	measurements done, delayed because of CV works, could be shifted to beginning of 2014	
<input type="checkbox"/>	amplifier tests	Han	complete test by March 2014, installation by June 2014	
<input type="checkbox"/>	1st week of December, visit to Bertronix to qualify new amplifier work,			
	no REX Isolde operation next year,			
<b>A.O.B.</b>				
<input type="checkbox"/>	order of new network analyzer	Han		
<input type="checkbox"/>	commissioning of FESA class in Linac2			