

	Old Name	New Name	Name	WP Holder	Note
General	CLIC-001		CLIC General	S. Stappes	
	0210 001				
Parameters and design	BPH-BASE	CD-BASE	Integrated Baseline Design and Parameters	D. Schulte	
Daniel Schulte	BPH-SIM	CD-SIM	Integrated Modelling and Performance Studies	A. Latina	
	BPH-FEED	CD-LUMI	Feedback Design	D. Schulte (interim)	
	BPH-MP	CD-OP	Machine Protection & Operational Scenarios	M. Jonker	
	BPH-BCKG	CD-BCKG	Background	D. Schulte (interim)	
	BPH-POL	CD-POL	Polarization	-	
	BPH-SRC E	CD-ESRC	Main beam electron source	S. Doebert	
	BPH-SRC P	CD-PSRC	Main beam positrion source		Searching (S.Doebert interim contact point)
	BPH-DR	CD-DR	Damping Rings	Y. Papaphilippou	
	BPH-RTML	CD-RTML	Ring-To-Main-Linac	A. Latina	
	BPH-ML	CD-ML	Main Linac - Two-Beam Acceleration	D. Schulte (placeholder)	ABP request 2013 (also linked to CTF3 activities)
	BPH-BDS	CD-BDS	Beam Delivery System	R. Tomas	· · · · · · · · · · · · · · · · · · ·
	BHP-MDI	CD-MDI	Machine-Detector Interface (MDI) activities	L.Gatignon	
	BPH-DRV	CD-DRV	Drive Beam Complex	B. Jeanneret	ABP request 2014 - (also linked to CTF3 activities)
Experimental verification	CTF3-001		CTF3 Consolidation & Upgrades	F. Tecker	
Roberto Corsini	CTF3-002		Drive Beam phase feed-forward and feedbacks	P. Skowronski	
	CTF3-003		TBL+, X-band high power RF production & structure testing	S. Doebert	
	CTF3-004		Two-Beam module string, test with beam	-	ABP request 2013 (see above)
	CLICO-001		CLIC 0 drive-beam front end facility (including Photoinjector option)	S. Doebert	
	CLICO-002		Drive Beam Photo Injector	S. Doebert	
	BTS-001		Accelerator Beam System Tests (ATF, Damping Rings, FACET,)	R. Tomas	(Tasks holders: R.T., Y.P. and A.L.)
	BTS-002		Sources Beam System Tests	-	Collaborators? split in 2 ?
Technical Developments	CTC-001	CTC-WIG	Damping Rings Superconducting Wiggler	P. Ferracin	
Hermann Schmickler	CTC-002	CTC-SUR	Survey & Alignment	H. Mainaud	
	CTC-003	CTC-QUA	Quadrupole Stability	K. Artoos	
	CTC-004	CTC-TBM	Two-Beam module development	G. Riddone	
	CTC-005	CTC-WMP	Warm Magnet Prototypes	M. Modena	
	CTC-006	CTC-BDI	Beam Instrumentation	T. Lefevre	Bl request 2012
	CTC-008	CTC-PCLD	Post Collision Lines and Dumps	E. Gschwendtner	
	CTC-011	CTC-CO	Controls	M.Draper	
	CTC-012	CTC-RF	RF Systems (1 GHz klystrons & DB cavities, DR RF)	E. Jensen (placeholder)	RF request 2014?
	CTC-013	CTC-EPC	Powering (Modulators, magnet converters)	S. Pittet	
	CTC-014	CTC-VAC	Vacuum Systems	C. Garion	
	CTC-015	CTC-MM	Magnetic stray Fields Measurements	S. Russenschuck	
	CTC-016	CTC-BT	Beam Transport Equipment	M. Barnes	
	CTC-017	CTC-MME	Creation of an "In-House" TBA Production Facility	F.Bertinelli (placeholder)	
X-band Technologies	RF-DESIGN	RF-DESIGN	X-band Rf structure Design	A.Grudiev, I. Syratchev	
				GRiddone	
Walter Wuensch	RF-XPROD	PRODUCTION	X-band Rf structure Production	d.Mddone	
Walter Wuensch	RF-XPROD RF-XTESTING	PRODUCTION TESTING	X-band Rf structure Production X-band Rf structure High Power Testing	S.Doebert	
Walter Wuensch	RF-XPROD RF-XTESTING RF-XTESTFAC	PRODUCTION TESTING TEST AREAS	X-band Rf structure Production X-band Rf structure High Power Testing Creation and Operation of x-band High power Testing Facilities	S.Doebert E.Jensen (placeholder)	RF request 2012, move construction to Techncial Developments when defined
Walter Wuensch	RF-XPROD RF-XTESTING RF-XTESTFAC RF-R&D	PRODUCTION TESTING TEST AREAS HIGH-GRADIENT	X-band Rf structure Production X-band Rf structure High Power Testing Creation and Operation of x-band High power Testing Facilities Basic High Gradient R&D	S.Doebert E.Jensen (placeholder) S.Calatroni	RF request 2012, move construction to Techncial Developments when defined
Walter Wuensch	RF-XPROD RF-XTESTING RF-XTESTFAC RF-R&D	PRODUCTION TESTING TEST AREAS HIGH-GRADIENT	X-band Rf structure Production X-band Rf structure High Power Testing Creation and Operation of x-band High power Testing Facilities Basic High Gradient R&D	S.Doebert E.Jensen (placeholder) S.Calatroni	RF request 2012, move construction to Techncial Developments when defined
Implementation studies	RF-XPROD RF-XTESTING RF-XTESTFAC RF-R&D	PRODUCTION TESTING TEST AREAS HIGH-GRADIENT	X-band Rf structure Production X-band Rf structure High Power Testing Creation and Operation of x-band High power Testing Facilities Basic High Gradient R&D Civil Engineering & Services	S.Doebert E.Jensen (placeholder) S.Calatroni	RF request 2012, move construction to Techncial Developments when defined

X



Experimental Verification

Present experimental program of CTF3 (feasibility issues)
⇒ completed by end 2012

Goals for (2011-2016):

- Consolidation/upgrade of CTF3 to fully exploit its potential:
 - Verify **stability/reliability performance** in view of CLIC requirements , improve operational experience
 - Contribute to high-power RF testing, demonstrate operation of a drive -beam driven power source
 - Test with beam CLIC two-beam modules

CTF3-001, CTF3-002, CTF3-003 & CTF3-004

- New drive beam injector facility, at nominal CLIC parameters
 - Final proof of drive beam performances, long-pulse, high -power operation
 - provides a focus for development and pre-industrialization of drive beam components – all hardware reusable

BTS-001 and

BTS-002

• First step towards CLIC Zero, facility for....

CLICO-001 and CLICO-002

- Pursue and intensify experimental program in other facilities
 - ATF II
 - CesR-TA, SLS, ATF I, ANKA...
 - Facet, Asset
 - ...





CLIC Drive Beam injector schematic layout





Format of the session

- 1. Short Introduction to the Meeting: schedule, expected outcome
- 2. Presentation of work-packages by WP holders (3-4 slides). Technical description, rough schedule, resources (10 15 min each)
- 3. Each presentation will be followed by statements by collaborators about their planned/potential contributions and discussion on practical details (about 15 20 min each)
- 4. Final wrap-up, collecting all informations

N.B.: Some WPs have common aspects/overlap with other activities' work-packages. Main examples:

- CLICO-001 (CLIC Zero Front-end), with CTC-012 & CTC-014
- CTF3-004 (Modules in CTF3) with CTC-004
- ...



Aim of the session

- 1. Collect all available info on contribution from collaborators to the CLIC work program 2012-2016
 - Ongoing activities
 - Planned and funded contributions
 - Potential contributions
- 2. For each Institute and each work-package, if possible review and collect in excel-sheet format the information, including *existing and potential* resources
- 3. Such information will enable the CLIC study to review the work program, and
 - Streamline, prioritize or delay part of the program if too many resources are missing or the interest within the collaboration for some parts is not strong enough
 - Negotiate with the CERN management (Departments and Groups) the detailed resources needed for the next phase, to complement the outside effort
- 4. The meeting will also help to better focus the technical details of the program

The collected information will of course be not complete – a detailed follow-up will be done with all collaborators, especially at the work-package level







CLIC Drive Beam Front-end

Build and commission 30 MeV Drive Beam front-end with <u>nominal CLIC parameters</u>



- Build and commission 30 MeV Drive Beam injector with nominal CLIC parameters
- Build and commission a few Drive Beam accelerator nominal modules
- Contribution to Technical Design of full CLIC Zero facility

CTF3 Injector

CLICO-001 and CLICO-002

