

CTF3 Collaboration Board

22. 6. 2007

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Participants: Jean-Pierre Delahaye; Shrivastava Purushottam; Mayda Velasco; Sebastien Vilalte

Friday 22 June 2007

Friday 22 June 2007	<u>top</u> +
14:00 Welcome addressing by the Chairman (10) Marie	o Calvetti (<i>Dipartimento di Fisica</i>)
14:10 Approval of the Minutes of the last Collaboration Board held on 16 Jan 07 (10) (🝉 Minutes 🔁 🕋)	
14:20 Outcome of the X-Band Accelerating Structure Design and Test-Program Workshop held at CERN on 18-19 Jun 07 (10)	Jean-Pierre Delahaye (CERN)
14:30 Status of CTF3 (30) (🔤 slides 🔁 😫)	Gunther Geschonke (CERN)
15:00 Coffee served	
15:30 Report on the CLIC Advisory Committee (CLIC-ACE) (45) (🔤 slides 🔁 🗐)	Tor O. Raubenheimer (SLAC)
16:15 List of Contributions to CTF3 (15) (🐜 slides 🖾 🔛)	
16:30 "Tour de Table" <mark>(30)</mark>	
17:00 Discussion and Conclusion (20)	
17:20 AoB <mark>(20)</mark> • CLIC Workshop on 16-18 Oct 07 at CERN (10') Conference Room: AB Auditorium Meyrin (6-2-024)	
 Dates for the next meetings (10') 	
Proposed dates for CTF3 Collaboration Meeting: 16-18 Jan 08 (in room 40-S2-B01) or 23-25 Jan 08 (40-S2-B01)	
Proposed dates for next CTF3 Collaboration Board: 18 Jan 08 pm (in Main bldg, 6th floor conf room) or 25 Jan 08 pm (Main bldg, 6th floor conf room)	

Collaborating institutes



Countries	Funding Agencies	Laboratory							
	CERN	CERN							
FINLAND		Helsinki Inst of Phys (HIP)							
	CEA	DAPNIA Saclay							
FRANCE		LAL							
TRANCE	CNRS/IN2P3	LAPP							
		LURE							
INDIA*	Indian DAE	RRCAT, Indore							
ITALY	INFN	LNF							
PAKISTAN *	PAEC	NCP							
		Budker Inst (BINP)							
RUSSIA		IAP							
	Dubna	JINR							
	Ministry of Education &	CIEMAT							
SPAIN	Ministry of Education & Science (MEC)	UPC							
	Science (MEC)	IFIC							
SWEDEN	Swedish Research Council	Uppsala University							
SWEDEN	Wallenberg Foundation	TSL							
SWITZERLAND		Paul Scherrer Inst (PSI)							
TURKEY		Ankara Univ Group (2)							
LICA	DOE	Northwestern Univ Illinois (NWU)							
USA	DUE	SLAC							

17 members involving 22 Institutes

* India and Pakistan have not signed the CTF3 MoU, but have an agreement with CERN for the development of novel accelerator technologies

Draft MoU Addendum with J.Adams Institute London

Discussions with : Iran, UK (Cockcroft Institute), JLAB, EPFL, INFN Milan

Past collaboration with RAL within PHIN



Most collaborating institutes were present

New member: First British institute! John Adams Institute, Royal Holloway, University of London

"radiative processes from electron beams" (transition, diffraction, synchrotron radiation) Instrument test beam (EU proposal)

total 640 kCHF

Photo Injector

smaller emittance, faster phase coding, no "satellite bunches"

LAL RF input

CERN

Cs₂Te photo cathode 3% QE 40 hours life time pulse train: 1.5 μ s, charge per bunch: 2.33 nC bunch spacing 0.67 ns number of bunches: 2332

RAL



Amp 2

Phase 1: off-line testing from 2007

Phase 2: Gun in CTF3: earliest spring 2008 ?????

lensing correction



Colline)

Candred Langer For Stre





Present status:

RF gun being built, ready end 2007 ??

Laser at CERN, needs to be finished (full system has never worked, no phase coding, no control system, no feedbacks.....)

RAL does not collaborate any more strong involvement from CERN, INFN Frascati and Milan

Laser is needed also for CALIFES injector !

Action proposed by the Chairman:
meeting with CERN, INFN, other interested institutes ???
→ advance on laser high priority

Structure testing



30 GHz testing at CERN will continue for a while.

CTF3 can only produce 12 GHz. Test of PETS only possible at CTF3 (Two Beam Test Stand)

Collaboration with SLAC and KEK on structure development / fabrication as well as testing at x-band (11.4 GHz).

Stand-alone RF source at 12 GHz at CERN is mandatory.

Several labs in Europe interested as well (PSI, INFN, Elettra)

11.9942 GHz, 50 MW peak, 1.5 µs, 50 Hz

Budget: 3.5 MSFr, could be operational in 2009

A possible schedule

				200 ⁻	7				2008					2009												
	6	7	8	9	10	11	12	1	2	ω	4	თ	6	7	8	9	10	11	12	1	2	ω	4	თ	6	7
Klystron Price Enquiry																										
Finance Committee Approval																										
Order Klystron																										
Klystron design																										
1st Klystron Manufacture and Delivery																										
2nd Klystron Manufacture and Delivery																										
Modulator Price Enquiry																										
Finance Committee Approval																										
Modulator Manufacture and Delivery																										
Preparation of Modulator area																										
Procurement and preparation of auxiliaries																										
Preparation of test area																										
Procurement and manufacture of test area equipment																										
Low level RF																										
START TEST STAND COMISSIONING (single klystron)																										

CLIC resources from CERN



		2008	2009	2010	Total
	Present MTP	3485	3485	3485	10455
	Additional LTP (CLIC-PLO/06-17 and White Paper)	4000	4000	4000	12000
Material budget (kCHF)	12 GHz power test stand and structure tests	1050	1850	600	3500
	Total additional (to present MTP plans) resources	5050	5850	4600	15500
	Total needed resources (to be included in future MTP)	8535	9335	8085	25955
	Present MTP	30.5	28	26.5	85
	Additional LTP (CLIC-PLO/06-17 and White Paper)	20	20	20	60
Man-Power (FTE)	12 GHz power test stand and structure tests	3	3	3	9
	Total additional (to present MTP plans) resources	23	23	23	69
	Total needed resources (to be included in future MTP)	53.5	51	49.5	154



The collaboration will also accept members working exclusively on CLIC.

open work packages have to be distributed with dates

DG's summary:

He reminds the collaboration of the deadline. "Christmas is not at Easter....."