Review of the CLIC Physics/Detector CDR

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Manchester, 18-20 October 2011

What do we review ?

CLIC Conceptual Design Report

Vol. 2:
Physics and Detectors at CLIC

Review Committee

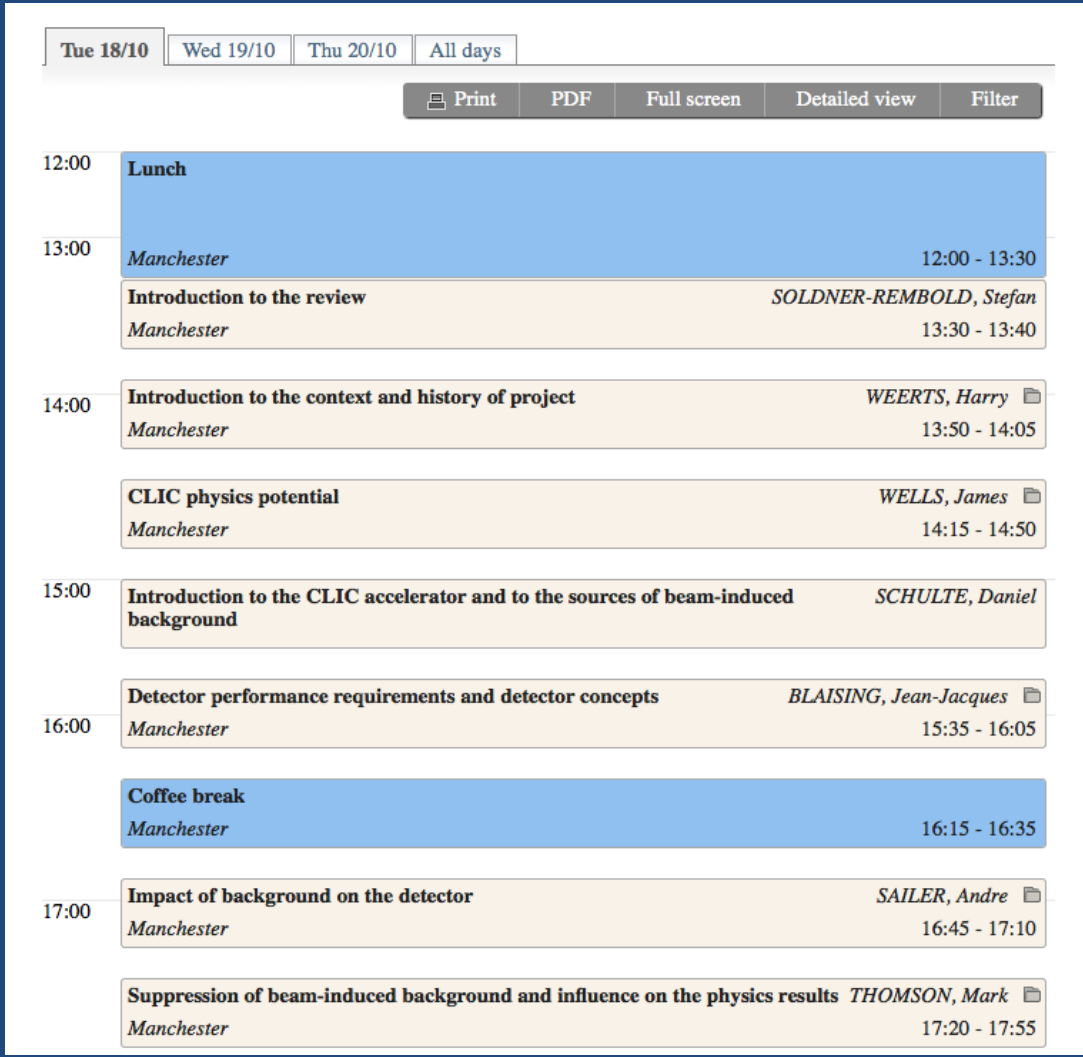
Stefan Soldner-Rembold, Manchester (chair)
Philip Bambade. LAL
Giovanni Batignani, INFN Pisa
Brigitte Bloch-Devaux, Turin
Daniel Elvira, Fermilab
Philippe Farthouat, CERN
Paul Grannis, SUNY Stony Brook
Marian Ivanov, GSI Darmstadt
Richard Nickerson, Oxford
Arnulf Quadt, Göttingen
Rob Roser, Fermilab
Nobu Toge, KEK
Yifang Wang, IHEP
Pippa Wells, CERN
Hitoshi Yamamoto , Tohoku

What is the charge ?

The main purpose of the CLIC physics/detector CDR is to present the physics potential for a CLIC multi-TeV e^+e^- collider and to demonstrate, at the conceptual level, that detector concepts and technologies can be proposed that will enable to measure the physics with adequate precision.

The review will address this question. It will determine whether the physics case that has been put forward is convincing given the current status of particle physics. It will also review the CLIC_ILD and CLIC_SiD detector concepts described in the CDR document, as well as the proposed detector technologies, including simulation. The review should also address the proposed methods for extracting physics in the presence of strong beam-induced background.

Agenda (Tuesday)



Tue 18/10 | Wed 19/10 | Thu 20/10 | All days

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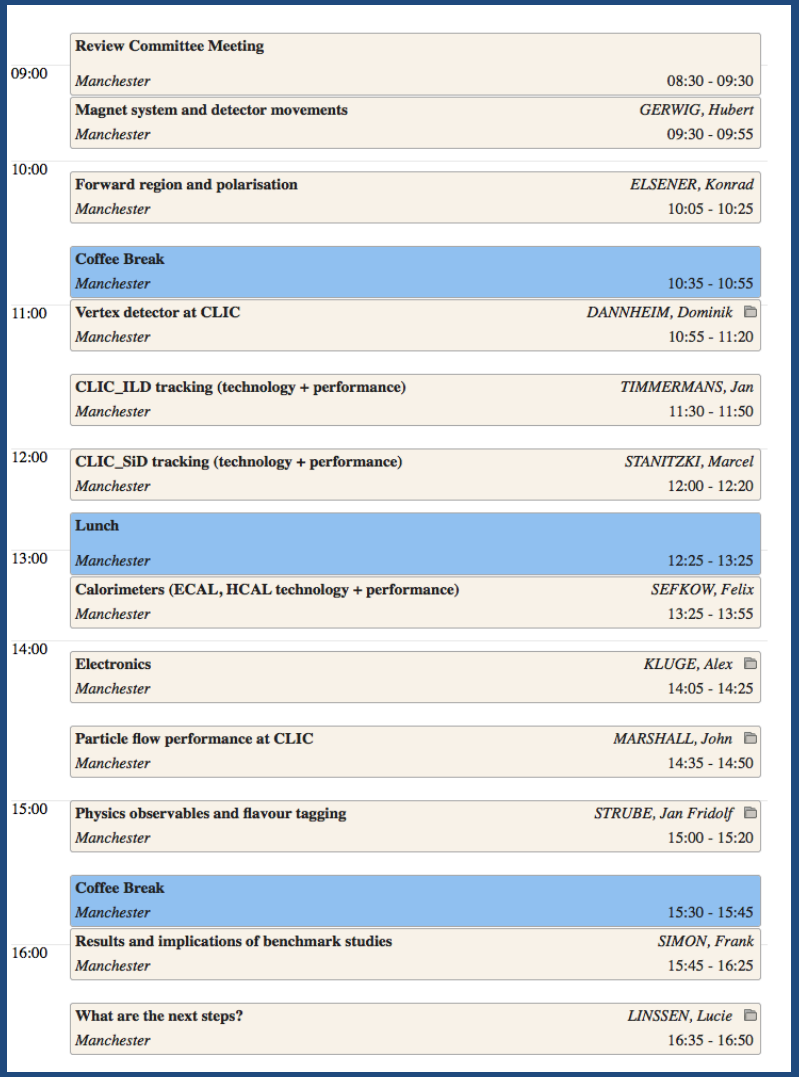
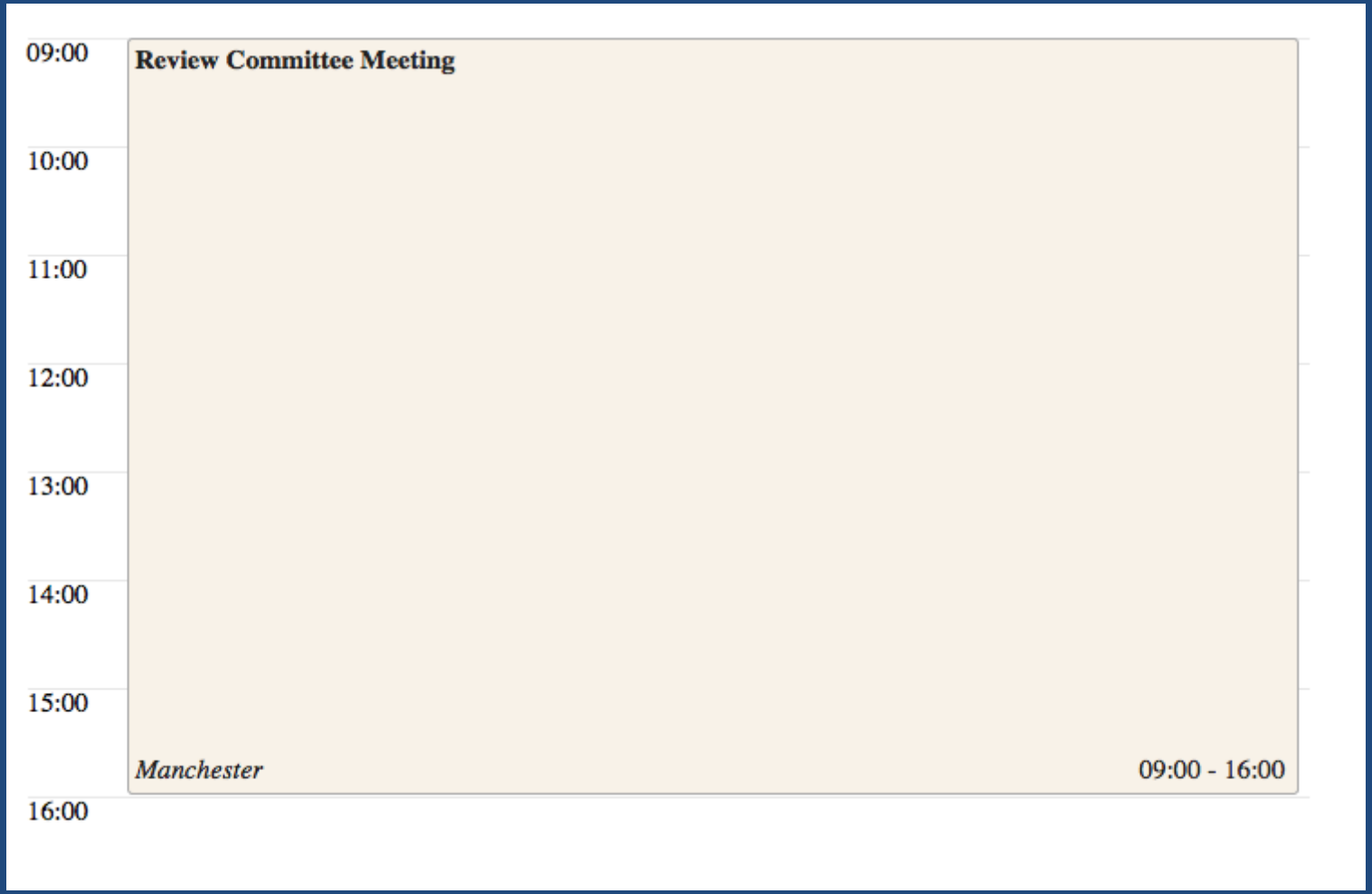
12:00	**Lunch**		
13:00	*Manchester*		12:00 - 13:30
	Introduction to the review	*SOLDNER-REMBOLD, Stefan*	
	Manchester		13:30 - 13:40
14:00	**Introduction to the context and history of project**	*WEERTS, Harry*	
	Manchester		13:50 - 14:05
	CLIC physics potential	*WELLS, James*	
	Manchester		14:15 - 14:50
15:00	**Introduction to the CLIC accelerator and to the sources of beam-induced background**	*SCHULTE, Daniel*	
	Detector performance requirements and detector concepts	*BLAISING, Jean-Jacques*	
16:00	*Manchester*		15:35 - 16:05
	Coffee break		
	Manchester		16:15 - 16:35
	Impact of background on the detector	*SAILER, Andre*	
17:00	*Manchester*		16:45 - 17:10
	Suppression of beam-induced background and influence on the physics results	*THOMSON, Mark*	
	Manchester		17:20 - 17:55

Agenda (Wednesday)



09:00	**Review Committee Meeting** *Manchester*	08:30 - 09:30
	Magnet system and detector movements *Manchester*	*GERWIG, Hubert* 09:30 - 09:55
10:00	**Forward region and polarisation** *Manchester*	*ELSENER, Konrad* 10:05 - 10:25
	Coffee Break *Manchester*	10:35 - 10:55
11:00	**Vertex detector at CLIC** *Manchester*	*DANNHEIM, Dominik* 10:55 - 11:20
	CLIC_ILD tracking (technology + performance) *Manchester*	*TIMMERMANS, Jan* 11:30 - 11:50
12:00	**CLIC_SiD tracking (technology + performance)** *Manchester*	*STANITZKI, Marcel* 12:00 - 12:20
	Lunch *Manchester*	12:25 - 13:25
13:00	**Calorimeters (ECAL, HCAL technology + performance)** *Manchester*	*SEFKOW, Felix* 13:25 - 13:55
14:00	**Electronics** *Manchester*	*KLUGE, Alex* 14:05 - 14:25
	Particle flow performance at CLIC *Manchester*	*MARSHALL, John* 14:35 - 14:50
15:00	**Physics observables and flavour tagging** *Manchester*	*STRUBE, Jan Fridolf* 15:00 - 15:20
	Coffee Break *Manchester*	15:30 - 15:45
16:00	**Results and implications of benchmark studies** *Manchester*	*SIMON, Frank* 15:45 - 16:25
	What are the next steps? *Manchester*	*LINSSEN, Lucie* 16:35 - 16:50

Agenda (Thursday)



- The review should be an interactive process, with questions asked during the presentations (within reason).
- The review committee might formulate more questions based on the discussions and presentations over the next days.
- At the end of the process, the Review Committee will send a written report to the editors of the CDR.