CLIC/ILC Collaboration Meeting: Objectives & Organization

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Introduction

- review selected subjects and define tasks which serve common interests –
  - **ILC and CLIC studies.**
  - **(or which are close enough to yield useful direct exchange)**
- Once defined, nominate contact persons for each subject (convenors)
  - **Who prepared the discussions for today's meeting**
  - **And will follow-up afterwards on listed tasks**

Meeting Format:

1. Start with a plenary session:
   - **the framework of the collaboration**
   - **(motivation, constraints...)**
2. Split in small working groups each one dedicated to a specific activity
   - **Agenda arranged by convenors prior to the meeting**
   - **Goal: Prepare the task list and develop written plan**
3. End with a plenary session:
   - **Present reports, discuss issues**
   - **Specific plans; or preparation of process**

Working Group locations:

- (Plenary 06-6-002)

1. General (management)
   - **PS Complex (alternative: meeting room of 06-6-002)**
2. Civil Engineering and Conventional Facilities
   - **Room C**
3. Beam Delivery Systems & Machine Detectors Interface
   - **Room B**
4. Detectors
   - **Room A**
5. Cost and Schedule
   - **LHC – B040-R-A10 (alternative: 06-6-002)**
6. Beam Dynamics & Beam Simulations including Low Emittance Transport
   - **Room B**

- Joint session:
  - **Detectors / BDS-MDI**
  - **Detectors / CFS**

Example tasks – to set the stage:

1. CFS
   - **Tunnel and utility details/features are quite different, BUT →**
   - **Underground construction complexity, heat removal requirements, scale of the installation are common challenges**

2. Cost & Schedule
   - **the CLIC and ILC cost/schedule groups meet for the first time**
   - **Long list of common tasks – from managing input to parametric studies**

Example tasks – to set the stage:

1. BDS
   - **This group has a long history of collaborative work**
   1. **Collimation**
   2. **Detector Integration**
   3. **Final Focus system and stabilization**
2. General - management
   - **Coordinate meetings, internal communication in an even-handed manner**
   - **Prepare report for publication and distribution to the community**
     - Including understanding of level of commitment

Other subjects

- Positron generation based on Compton Scattering
- Damping Rings,
- Klystrons (L band) & Modulators with long pulses and high efficiency
- High power beam dumps
- Operational & reliability issues
- Machine Protection System
- Others?

- NEXT TIME!

Summary

- We (Akira and Nick and Marc) are pleased with the opportunity to develop a working relationship with the CLIC team on items of mutual benefit
- Our goals are to:
  - **Work with CERN scientists and engineers on ILC / CLIC items; toward solving ILC design challenges**
  - **Establishing connections and**
  - **Mutual basis for discussion on key items**
  - **Demonstrate a functioning collaboration through presentations to CERN / ILC communities etc.**