

# **Seventh International Accelerator School for Linear Colliders**

## **Report of Contributions**

Contribution ID: 0

Type: **not specified**

## Lecture I1 –Introduction

- Tera scale physics
- Overview of future accelerators for Tera scale physics (ILC, CLIC, muon collider,  $\gamma\gamma$  collider, LEP-3, LHeC, new acceleration technologies)

**Presenter:** YOKOYA, Kaoru (KEK)

Contribution ID: 1

Type: **not specified**

## Lecture I1 –Introduction

*Wednesday, 28 November 2012 09:00 (3h 30m)*

- Tera scale physics
- Overview of future accelerators for Tera scale physics (ILC, CLIC, muon collider,  $\gamma\gamma$  collider, LEP-3, LHeC, new acceleration technologies)

**Presenter:** Prof. YOKOYA, Kaoru (KEK)

**Session Classification:** Lecture

Contribution ID: 2

Type: **not specified**

## Lecture I2 –ILC

*Wednesday, 28 November 2012 14:00 (3h 30m)*

- e- and e+ sources
- Bunch compressors and spin rotators
- Damping rings
- Main linac
- Beam delivery system
- Civil construction

**Presenter:** Prof. BARISH, Barry (GDE)

**Session Classification:** Lecture

Contribution ID: 3

Type: **not specified**

## Lecture I3 –CLIC

*Thursday, 29 November 2012 09:00 (3h 30m)*

- Klystron vs. beam driven acceleration
- CLIC layout
- Parameter choices & optimization
- Driver beam stability
- Comparison of the CLIC and ILC
- Technical challenges

**Presenter:** Dr TECKER, Frank (CERN)

**Session Classification:** Lecture

Contribution ID: 4

Type: **not specified**

## Lecture I4 – Muon Collider

*Thursday, 29 November 2012 14:00 (3h 30m)*

- Muon collider basics
- Machine layout
- Major sub-systems
- Challenges

**Presenter:** Dr PALMER, Mark (Fermilab)

**Session Classification:** Lecture

Contribution ID: 5

Type: **not specified**

## **Joint Lecture AB1 - Linac Basics**

*Friday, 30 November 2012 09:00 (3h 30m)*

**Presenter:** Dr SCHULTE, Daniel (CERN)

Contribution ID: 6

Type: **not specified**

## Site visit at RRCAT

*Friday, 30 November 2012 14:00 (3h 30m)*

- Hands-on training experiments
  1. SRF cavity measurements
  2. Characterization of RF components
  3. Beam profile measurement

**Presenter:** Dr HANNURKAR, P R (RRCAT)



Contribution ID: 7

Type: **not specified**

## **Joint lecture AB2 –Beam instrumentation**

*Saturday, 1 December 2012 09:00 (3h 30m)*

**Presenter:** Dr SCHMICKLER, Hermann (CERN)

Contribution ID: 8

Type: **not specified**

## **Accelerator physics Lecture A1 –Linac**

*Saturday, 1 December 2012 14:00 (3h 30m)*

**Presenter:** Dr SCHULTE, Daniel (CERN)

**Session Classification:** Course A

Contribution ID: 9

Type: **not specified**

## **Accelerator physics Lecture A1 –Linac**

*Sunday, 2 December 2012 09:00 (3h 30m)*

**Presenter:** Dr SCHULTE, Daniel (CERN)

**Session Classification:** Course A

Contribution ID: **10**

Type: **not specified**

## **Accelerator physics Lecture A1 –Linac**

*Monday, 3 December 2012 09:00 (3h 30m)*

**Presenter:** Dr SCHULTE, Daniel (CERN)

**Session Classification:** Course A

Contribution ID: 11

Type: **not specified**

## **Accelerator physics Lecture A2 –Sources**

*Sunday, 2 December 2012 14:00 (3h 30m)*

**Presenter:** Prof. KURIKI, Masao (Hiroshima University)

**Session Classification:** Course A

Contribution ID: 12

Type: **not specified**

## **Accelerator physics Lecture A2 –Sources**

*Monday, 3 December 2012 14:00 (3h 30m)*

**Presenter:** Prof. KURIKI, Masao (Hiroshima University)

**Session Classification:** Course A

Contribution ID: 13

Type: **not specified**

## **RF technology Lecture B1 –Room temperature RF**

*Saturday, 1 December 2012 14:00 (3h 30m)*

**Presenter:** Dr WUENSCH, Walter (CERN)

**Session Classification:** Course B

Contribution ID: 14

Type: **not specified**

## **RF technology Lecture B1 –Room temperature RF**

*Sunday, 2 December 2012 09:00 (3h 30m)*

**Presenter:** Dr WUENSCH, Walter (CERN)

**Session Classification:** Course B



Contribution ID: 15

Type: **not specified**

## **RF technology Lecture B2 –Superconducting RF**

*Sunday, 2 December 2012 14:00 (3h 30m)*

**Presenter:** Dr DELAYEN, Jean (ODU/Jlab)

**Session Classification:** Course B

Contribution ID: 16

Type: **not specified**

## **RF technology Lecture B1 –Room temperature RF**

*Monday, 3 December 2012 09:00 (3h 30m)*

**Presenter:** Dr WUENSCH, Walter (CERN)

**Session Classification:** Course B

Contribution ID: 17

Type: **not specified**

## **RF technology Lecture B2 –Superconducting RF**

*Monday, 3 December 2012 14:00 (3h 30m)*

**Presenter:** Dr DELAYEN, Jean (ODU/Jlab)

**Session Classification:** Course B

Contribution ID: **18**

Type: **not specified**

## **Accelerator physics Lecture A3 –Damping rings and ring colliders**

*Tuesday, 4 December 2012 09:00 (3h 30m)*

**Presenter:** Dr GUIDUCCI, Susanna (INFN-LNF)

**Session Classification:** Course A

Contribution ID: **19**

Type: **not specified**

## **RF technology Lecture B1 –Room temperature RF**

*Tuesday, 4 December 2012 09:00 (3h 30m)*

**Presenter:** Dr WUENSCH, Walter (CERN)

**Session Classification:** Course B

Contribution ID: 20

Type: **not specified**

## **Accelerator physics Lecture A3 – Damping rings and ring colliders**

*Wednesday, 5 December 2012 09:00 (3h 30m)*

**Presenter:** Dr GUIDUCCI, Susanna (INFN-LNF)

**Session Classification:** Course A

Contribution ID: 21

Type: **not specified**

## **RF technology Lecture B3 –LLRF & high power RF**

*Wednesday, 5 December 2012 09:00 (3h 30m)*

**Presenters:** Dr SIMROCK, Stefan (ITER); Dr GENG, Zheqiao (SLAC)

**Session Classification:** Course B

Contribution ID: 22

Type: **not specified**

## **Accelerator physics Lecture A4 – Beam delivery system and beam-beam**

*Wednesday, 5 December 2012 14:00 (3h 30m)*

**Presenter:** Prof. SERYI, Andrei (John Adams Institute)

**Session Classification:** Course A



Contribution ID: 23

Type: **not specified**

## **RF technology Lecture B2 –Superconducting RF**

*Wednesday, 5 December 2012 14:00 (3h 30m)*

**Presenter:** Dr DELAYEN, Jean (ODU/Jlab)

**Session Classification:** Course B

Contribution ID: 24

Type: **not specified**

## **Accelerator physics Lecture A3 – Damping rings and ring colliders**

*Thursday, 6 December 2012 09:00 (3h 30m)*

**Presenter:** Dr GUIDUCCI, Susanna (INFN-LNF)

**Session Classification:** Course A

Contribution ID: 25

Type: **not specified**

## **RF technology Lecture B3 –LLRF & high power RF**

*Thursday, 6 December 2012 09:00 (3h 30m)*

**Presenters:** Dr SIMROCK, Stefan (ITER); Dr GENG, Zheqiao (SLAC)

**Session Classification:** Course B

Contribution ID: 26

Type: **not specified**

## **Accelerator physics Lecture A4 – Beam delivery system and beam-beam**

*Thursday, 6 December 2012 14:00 (3h 30m)*

**Presenter:** Prof. SERYI, Andrei (John Adams Institute)

**Session Classification:** Course A

Contribution ID: 27

Type: **not specified**

## **RF technology Lecture B2 –Superconducting RF**

*Thursday, 6 December 2012 14:00 (3h 30m)*

**Presenter:** Dr DELAYEN, Jean (ODU/Jlab)

**Session Classification:** Course B

Contribution ID: 28

Type: **not specified**

## **Accelerator physics Lecture A3 – Damping rings and ring colliders**

*Friday, 7 December 2012 09:00 (3h 30m)*

**Presenter:** Dr GUIDUCCI, Susanna (INFN-LNF)

**Session Classification:** Course A

Contribution ID: 29

Type: **not specified**

## **RF technology Lecture B3 –LLRF & high power RF**

*Friday, 7 December 2012 09:00 (3h 30m)*

**Presenters:** Dr SIMROCK, Stefan (ITER); Dr GENG, Zheqiao (SLAC)

**Session Classification:** Course B