

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, November 28, 2012 9:00 AM (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, November 28, 2012 2:00 PM (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, November 29, 2012 9:00 AM (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, November 29, 2012 2:00 PM (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, November 30, 2012 9:00 AM (3h 30m)

Presenter: Dr SCHULTE, Daniel (CERN)

Contribution ID: 6

Type: **not specified**

Site visit at RRCAT

Friday, November 30, 2012 2:00 PM (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, December 1, 2012 9:00 AM (3h 30m)

Presenter: Dr SCHMICKLER, Hermann (CERN)

Contribution ID: 8

Type: **not specified**

Accelerator physics Lecture A1 – Linac

Saturday, December 1, 2012 2:00 PM (3h 30m)

Presenter: Dr SCHULTE, Daniel (CERN)

Session Classification: Course A

Contribution ID: 9

Type: **not specified**

Accelerator physics Lecture A1 – Linac

Sunday, December 2, 2012 9:00 AM (3h 30m)

Presenter: Dr SCHULTE, Daniel (CERN)

Session Classification: Course A

Contribution ID: **10**

Type: **not specified**

Accelerator physics Lecture A1 – Linac

Monday, December 3, 2012 9:00 AM (3h 30m)

Presenter: Dr SCHULTE, Daniel (CERN)

Session Classification: Course A

Contribution ID: 11

Type: **not specified**

Accelerator physics Lecture A2 – Sources

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

Presenter: Prof. KURIKI, Masao (Hiroshima University)

Session Classification: Course A

Contribution ID: 12

Type: **not specified**

Accelerator physics Lecture A2 – Sources

Monday, December 3, 2012 2:00 PM (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, December 1, 2012 2:00 PM (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, December 2, 2012 9:00 AM (3h 30m)

Presenter: Dr WUENSCH, Walter (CERN)

Session Classification: Course B

Contribution ID: 15

Type: **not specified**

RF technology Lecture B2 – Superconducting RF

Sunday, December 2, 2012 2:00 PM (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, December 3, 2012 9:00 AM (3h 30m)

Presenter: Dr WUENSCH, Walter (CERN)

Session Classification: Course B

Contribution ID: 17

Type: **not specified**

RF technology Lecture B2 – Superconducting RF

Monday, December 3, 2012 2:00 PM (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, December 4, 2012 9:00 AM (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, December 4, 2012 9:00 AM (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, December 5, 2012 9:00 AM (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, December 5, 2012 9:00 AM (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, December 5, 2012 2:00 PM (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, December 5, 2012 2:00 PM (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, December 6, 2012 9:00 AM (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, December 6, 2012 9:00 AM (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, December 6, 2012 2:00 PM (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, December 6, 2012 2:00 PM (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, December 7, 2012 9:00 AM (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, December 7, 2012 9:00 AM (3h 30m)

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

Session Classification: Course B