

3rd T4CM - Type IV ILC Cryomodule Meeting

Report of Contributions

Contribution ID: **0**

Type: **not specified**

Welcome by the INFN Milano Director

Monday, 22 January 2007 09:00 (10 minutes)

Presenter: BATTISTONI, Giuseppe

Session Classification: Opening Session

Contribution ID: 1

Type: **not specified**

Introduction to the Meeting

Monday, 22 January 2007 09:10 (20 minutes)

Presenter: PAGANI, Carlo (INFN Milano LASA)

Session Classification: Opening Session

Contribution ID: 2

Type: **not specified**

The evolving ILC: from the BCD to the RDR through the CCB

Monday, 22 January 2007 09:30 (30 minutes)

Presenter: PAGANI, Carlo (INFN Milano LASA)

Session Classification: Opening Session

Contribution ID: 3

Type: **not specified**

Summary of the FNAL training week on modeling and EDMS

Monday, 22 January 2007 10:00 (30 minutes)

Presenter: MITCHELL, Don (Fermilab)

Session Classification: Opening Session

Contribution ID: 4

Type: **not specified**

Current status of the type IV design and modeling

Monday, 22 January 2007 11:00 (30 minutes)

Presenter: ORLOV, Youri (FNAL)

Session Classification: Opening Session

Contribution ID: 5

Type: **not specified**

Status and future plans for the ILC EDMS at DESY

Monday, 22 January 2007 11:30 (30 minutes)

Presenter: Dr HAGGE, Lars (Deutsches Elektronen-Synchrotron (DESY))

Session Classification: Opening Session

Contribution ID: 6

Type: **not specified**

Plans for the XFEL Cryomodule

Monday, 22 January 2007 12:00 (30 minutes)

Presenter: LANGE, Rolf

Session Classification: Opening Session

Contribution ID: 7

Type: **not specified**

Discussion on cavity end groups and helium tank

Monday, 22 January 2007 14:00 (30 minutes)

Presenter: TBD

Session Classification: String and components around the cold mass

Contribution ID: 8

Type: **not specified**

Blade tuner developments

Monday, 22 January 2007 14:30 (30 minutes)

Presenter: PANZERI, Nicola (INFN Milano LASA)

Session Classification: String and components around the cold mass

Contribution ID: 9

Type: **not specified**

Piezo ceramics for LLRF

Monday, 22 January 2007 15:00 (30 minutes)

Presenter: BOSOTTI, Angelo (INFN Milano LASA)

Session Classification: String and components around the cold mass

Contribution ID: **10**

Type: **not specified**

Quadrupole package: status

Monday, 22 January 2007 16:00 (30 minutes)

Presenter: TBD

Session Classification: String and components around the cold mass

Contribution ID: **11**

Type: **not specified**

Bellows and Ti/SS transition joints

Monday, 22 January 2007 15:30 (30 minutes)

Presenter: PARMA, Vittorio (CERN)

Session Classification: String and components around the cold mass

Contribution ID: 12

Type: **not specified**

Cabling and sensors: inventory

Monday, 22 January 2007 16:30 (30 minutes)

No specific work has been done on ILC, but the inventory for XFEL modules is nearly complete. Rolf confirms that by mid-february the data should be available.

Presenter: TBD

Session Classification: String and components around the cold mass

Contribution ID: 13

Type: **not specified**

Magnetic shields configurations

Monday, 22 January 2007 17:00 (30 minutes)

Presenters: MONACO, Laura (INFN Milano LASA); PIERINI, Paolo (INFN Milano LASA)

Session Classification: String and components around the cold mass

Contribution ID: 14

Type: **not specified**

Measurements of inner magnetic shielding at KEK

Monday, 22 January 2007 17:30 (30 minutes)

Presenter: TBD

Session Classification: String and components around the cold mass

Contribution ID: 15

Type: **not specified**

T4CM Vibration Analysis Update

Tuesday, 23 January 2007 09:00 (30 minutes)

Presenter: MCGEE, Michael (Fermilab)

Session Classification: Mechanical aspects

Contribution ID: 16

Type: **not specified**

Activities on posts at DESY

Tuesday, 23 January 2007 11:30 (30 minutes)

Presenter: JENSCH, Kay (DESY)

Session Classification: Mechanical aspects

Contribution ID: 17

Type: **not specified**

Report from fabrication at Zanon of the type 3+ modules

Tuesday, 23 January 2007 09:30 (30 minutes)

Presenter: BARBANOTTI, Serena (INFN Milano LASA)

Session Classification: Mechanical aspects

Contribution ID: **18**

Type: **not specified**

Activities on posts at INFN and DESY

Tuesday, 23 January 2007 11:00 (30 minutes)

Presenter: BARBANOTTI, Serena (INFN Milano LASA)

Session Classification: Mechanical aspects

Contribution ID: 19

Type: **not specified**

Cryomodules as Part of the ILC Cryogenic System

Tuesday, 23 January 2007 14:00 (20 minutes)

You can download some of the most recent documents
for ILC cryogenics from
[http://www.linearcollider.org/wiki/doku.php?
id=rdr:rdr_gs:cryogenic_systems](http://www.linearcollider.org/wiki/doku.php?id=rdr:rdr_gs:cryogenic_systems)

Presenter: Mr PETERSON, Tom (FNAL)

Session Classification: Cryogenic aspects

Contribution ID: **20**

Type: **not specified**

Cryomodule heat loads – latest estimates

Tuesday, 23 January 2007 14:30 (10 minutes)

Presenter: TBD

Session Classification: Cryogenic aspects

Contribution ID: 21

Type: **not specified**

Measuring cryomodule heat on a test stand or in a string

Tuesday, 23 January 2007 14:40 (20 minutes)

Presenter: TBD

Session Classification: Cryogenic aspects

Contribution ID: 22

Type: **not specified**

General discussion and tasks drafting

Wednesday, 24 January 2007 09:00 (3h 30m)

Session Classification: Discussion on task assignments

Contribution ID: 23

Type: **not specified**

Round table discussion and conclusions

Wednesday, 24 January 2007 14:00 (2 hours)

Presenter: TBD

Session Classification: Discussion on how to proceed in further work

Contribution ID: 24

Type: **not specified**

Visit to LASA Laboratory

Wednesday, 24 January 2007 16:00 (1h 30m)

Session Classification: Discussion on how to proceed in further work

Contribution ID: 25

Type: **not specified**

Adjourn

Wednesday, 24 January 2007 17:30 (30 minutes)

Presenter: PAGANI, Carlo (INFN Milano LASA)

Session Classification: Discussion on how to proceed in further work

Contribution ID: 26

Type: **not specified**

Cryomodule test stands

Tuesday, 23 January 2007 15:00 (20 minutes)

Session Classification: Cryogenic aspects

Contribution ID: 27

Type: **not specified**

Helium flow rates and pressure drops as estimated for ILC

Tuesday, 23 January 2007 15:20 (20 minutes)

Session Classification: Cryogenic aspects

Contribution ID: **28**

Type: **not specified**

Magnet cooling within the cryomodule

Tuesday, 23 January 2007 16:00 (10 minutes)

Session Classification: Cryogenic aspects

Contribution ID: 29

Type: **not specified**

Magnet current leads

Tuesday, 23 January 2007 16:10 (10 minutes)

Session Classification: Cryogenic aspects

Contribution ID: **30**

Type: **not specified**

Are flow-induced vibrations a concern for ILC?

Tuesday, 23 January 2007 16:20 (10 minutes)

Session Classification: Cryogenic aspects

Contribution ID: 31

Type: **not specified**

Cryomodule instrumentation – both for prototype and also in the ILC

Tuesday, 23 January 2007 16:30 (10 minutes)

Session Classification: Cryogenic aspects

Contribution ID: **32**

Type: **not specified**

Cryomodule operation experience at TTF

Tuesday, 23 January 2007 15:40 (20 minutes)

Session Classification: Cryogenic aspects

Contribution ID: 33

Type: **not specified**

Cryomodule maximum allowable pressures for each circuit

Tuesday, 23 January 2007 16:40 (10 minutes)

Session Classification: Cryogenic aspects

Contribution ID: 34

Type: **not specified**

Emergency venting with loss of vacuum, spacing of vacuum breaks

Tuesday, 23 January 2007 16:50 (10 minutes)

Session Classification: Cryogenic aspects

Contribution ID: 35

Type: **not specified**

String end box features and issues

Tuesday, 23 January 2007 17:00 (10 minutes)

Session Classification: Cryogenic aspects

Contribution ID: 36

Type: **not specified**

Possible trade-offs of cryomodule complexity with refrigeration size (do we need to worry about every Watt? Or is there a beneficial trade-off with some simplification of MLI, etc.)

Tuesday, 23 January 2007 17:10 (10 minutes)

Session Classification: Cryogenic aspects

Contribution ID: 37

Type: **not specified**

Module design and R&D activities in Pisa

Tuesday, 23 January 2007 10:00 (30 minutes)

Presenter: BASTI, andrea (INFN Sezione di Pisa)

Session Classification: Mechanical aspects

Contribution ID: **38**

Type: **not specified**

ILC Cryomodule Piping

Tuesday, 23 January 2007 14:20 (10 minutes)

Presenter: TAVIAN, Laurent Jean (CERN)

Session Classification: Cryogenic aspects