

# **ILC Damping Rings Workshop (ILCDR06)**



## **Report of Contributions**

Contribution ID: 0

Type: **not specified**

## How parameters drive the kickers and septa

**Primary author:** Dr MATTISON, Thomas (UBC)

Contribution ID: 1

Type: **not specified**

## How parameters drive the kickers and septa

*Tuesday, 26 September 2006 09:10 (15 minutes)*

**Presenter:** Dr MATTISON, Thomas (UBC)

**Session Classification:** Injection/Extraction Kickers

Contribution ID: 2

Type: **not specified**

## **Baseline injection/extraction configuration**

*Tuesday, 26 September 2006 09:40 (20 minutes)*

**Primary authors:** Dr XIAO, Aimin (ANL); Dr EMERY, Louis (ANL)

**Presenter:** Dr EMERY, Louis (ANL)

**Session Classification:** Injection/Extraction Kickers

Contribution ID: 3

Type: **not specified**

## **Alternative injection/extraction configuration**

*Tuesday, 26 September 2006 10:00 (10 minutes)*

**Primary author:** Dr MATTISON, Thomas (UBC)

**Presenter:** Dr MATTISON, Thomas (UBC)

**Session Classification:** Injection/Extraction Kickers

Contribution ID: 4

Type: **not specified**

## **RF-separated bypass**

*Tuesday, 26 September 2006 10:10 (20 minutes)*

**Primary author:** Dr RUBIN, David (Cornell)

**Presenter:** Dr RUBIN, David (Cornell)

**Session Classification:** Injection/Extraction Kickers

Contribution ID: 5

Type: **not specified**

## Discussion

Contribution ID: 6

Type: **not specified**

## **Kicker R&D at Frascati**

*Tuesday, 26 September 2006 14:45 (45 minutes)*

**Primary author:** Dr MARCELLINI, Fabio (INFN-LNF)

**Presenter:** Dr MARCELLINI, Fabio (INFN-LNF)

**Session Classification:** Injection/Extraction Kickers



Contribution ID: 7

Type: **not specified**

## Inductive adder pulser

*Tuesday, 26 September 2006 11:45 (45 minutes)*

**Primary author:** Dr BURKHART, Craig (SLAC)

**Presenter:** Dr BURKHART, Craig (SLAC)

**Session Classification:** Injection/Extraction Kickers

Contribution ID: 8

Type: **not specified**

## **Development of a fast high-power pulser and ILC DR injection/extraction kicker**

*Tuesday, 26 September 2006 14:00 (45 minutes)*

**Primary author:** Dr KRASNYKH, Anatoly (SLAC)

**Presenter:** Dr BURKHART, Craig (SLAC)

**Session Classification:** Injection/Extraction Kickers

Contribution ID: 9

Type: **not specified**

## **Kicker R&D at Cornell/UIUC/FNAL**

*Tuesday, 26 September 2006 16:45 (45 minutes)*

**Primary author:** Dr MELLER, Robert (Cornell)

**Presenter:** Dr MELLER, Robert (Cornell)

**Session Classification:** Injection/Extraction Kickers

Contribution ID: 10

Type: **not specified**

## **Experiments with fast pulsers at ATF; and plans for fast extraction kicker for ATF2**

*Tuesday, 26 September 2006 16:00 (45 minutes)*

**Primary author:** Prof. URAKAWA, Junji (KEK)

**Presenter:** Prof. URAKAWA, Junji (KEK)

**Session Classification:** Injection/Extraction Kickers

Contribution ID: 11

Type: **not specified**

## **Kicker R&D at LBNL**

*Tuesday, 26 September 2006 17:30 (30 minutes)*

**Primary author:** Dr DE SANTIS, Stefano (LBNL)

**Presenter:** Dr DE SANTIS, Stefano (LBNL)

**Session Classification:** Injection/Extraction Kickers

Contribution ID: 12

Type: **not specified**

## **Kicker R&D at TRIUMF**

**Primary author:** Dr MATTISON, Thomas (UBC)

**Presenter:** Dr MATTISON, Thomas (UBC)

Contribution ID: 13

Type: **not specified**

## Plans for SLAC/LLNL

*Wednesday, 27 September 2006 09:00 (30 minutes)*

**Primary author:** Dr BURKHART, Craig (SLAC)

**Presenter:** Dr BURKHART, Craig (SLAC)

**Session Classification:** Injection/Extraction Kickers

Contribution ID: 14

Type: **not specified**

## **Plans for UIUC/FNAL/Cornell**

*Wednesday, 27 September 2006 09:30 (30 minutes)*

**Primary author:** Dr GOLLIN, George (UIUC)

**Presenter:** Dr GOLLIN, George (UIUC)

**Session Classification:** Injection/Extraction Kickers



Contribution ID: 15

Type: **not specified**

## Plans for KEK/ATF

*Wednesday, 27 September 2006 10:00 (30 minutes)*

**Primary author:** Prof. URAKAWA, Junji (KEK)

**Presenter:** Prof. URAKAWA, Junji (KEK)

**Session Classification:** Injection/Extraction Kickers

Contribution ID: 16

Type: **not specified**

## Plans for LNF

*Wednesday, 27 September 2006 11:00 (30 minutes)*

**Primary author:** Dr MARCELLINI, Fabio (INFN-LNF)

**Presenter:** Dr MARCELLINI, Fabio (INFN-LNF)

**Session Classification:** Injection/Extraction Kickers

Contribution ID: 17

Type: **not specified**

## **Plans for SLAC (DSRD)**

*Wednesday, 27 September 2006 11:30 (30 minutes)*

**Primary author:** Dr KRASNYKH, Anatoly (SLAC)

**Presenter:** Dr BURKHART, Craig (SLAC)

**Session Classification:** Injection/Extraction Kickers

Contribution ID: **18**

Type: **not specified**

## **Kicker R&D at TRIUMF and other possible technologies**

*Wednesday, 27 September 2006 12:00 (30 minutes)*

**Primary author:** Dr MATTISON, Thomas (UBC)

**Presenter:** Dr MATTISON, Thomas (UBC)

**Session Classification:** Injection/Extraction Kickers

Contribution ID: **19**

Type: **not specified**

## **Electron cloud studies at SLAC**

*Tuesday, 26 September 2006 17:00 (30 minutes)*

**Primary author:** Dr PIVI, Mauro (SLAC)

**Presenter:** Dr PIVI, Mauro (SLAC)

**Session Classification:** Electron Cloud

Contribution ID: **21**

Type: **not specified**

**tbc**

**Presenter:** Dr HARKAY, Kathy (ANL)

Contribution ID: 22

Type: **not specified**

## **Capability of WARP-POSINST for ILC electron cloud calculations**

*Wednesday, 27 September 2006 09:00 (30 minutes)*

**Primary author:** Dr CELATA, Christine (LBNL)

**Presenter:** Dr CELATA, Christine (LBNL)

**Session Classification:** Electron Cloud

Contribution ID: 23

Type: **not specified**

## Summary of CERN e-cloud activity for ILC

*Wednesday, 27 September 2006 09:30 (30 minutes)*

**Primary author:** Dr RUMOLO, Giovanni (CERN)

**Presenter:** Dr RUMOLO, Giovanni (CERN)

**Session Classification:** Electron Cloud



Contribution ID: 24

Type: **not specified**

## Wake field generated by a train of bunches in an electron cloud

*Wednesday, 27 September 2006 10:00 (30 minutes)*

**Primary author:** Dr SCHACHTER, Levi (Cornell)

**Presenter:** Dr SCHACHTER, Levi (Cornell)

**Session Classification:** Electron Cloud

Contribution ID: 25

Type: **not specified**

## **Electron cloud instability experiments at KEKB**

*Wednesday, 27 September 2006 11:00 (30 minutes)*

**Primary author:** Dr SUETSUGU, Yusuke (KEK)

**Presenter:** Dr SUETSUGU, Yusuke (KEK)

**Session Classification:** Electron Cloud

Contribution ID: 26

Type: **not specified**

## Recent electron cloud studies at CESR

*Wednesday, 27 September 2006 11:30 (30 minutes)*

**Primary author:** Dr RICE, David (Cornell)

**Presenter:** Dr RICE, David (Cornell)

**Session Classification:** Electron Cloud

Contribution ID: 27

Type: **not specified**

## **Sideband measurements and simulations as evidence of e-cloud induced head-tail instability**

*Wednesday, 27 September 2006 12:00 (30 minutes)*

**Primary author:** Dr OHMI, Kazuhito (KEK)

**Presenter:** Dr OHMI, Kazuhito (KEK)

**Session Classification:** Electron Cloud

Contribution ID: 28

Type: **not specified**

## Electron cloud in wigglers

*Wednesday, 27 September 2006 14:00 (30 minutes)*

**Primary author:** Dr WANG, Lanfa (SLAC)

**Presenter:** Dr WANG, Lanfa (SLAC)

**Session Classification:** Electron Cloud

Contribution ID: 29

Type: **not specified**

## **Fast ion instability studies at ATF**

*Wednesday, 27 September 2006 15:00 (30 minutes)*

**Primary author:** Prof. URAKAWA, Junji (KEK)

**Presenter:** Prof. URAKAWA, Junji (KEK)

**Session Classification:** Electron Cloud

Contribution ID: 31

Type: **not specified**

## **Bunch length measurements; and development of microwave detector for microwave instability experiments at ATF**

*Tuesday, 26 September 2006 11:00 (45 minutes)*

**Primary author:** Prof. URAKAWA, Junji (KEK)

**Presenter:** Prof. URAKAWA, Junji (KEK)

**Session Classification:** Impedance and Impedance-Driven Instabilities

Contribution ID: **32**

Type: **not specified**

## **New structure for a collimator with low impedance**

*Tuesday, 26 September 2006 14:00 (30 minutes)*

**Primary author:** Dr SUETSUGU, Yusuke (KEK)

**Presenter:** Dr SUETSUGU, Yusuke (KEK)

**Session Classification:** Impedance and Impedance-Driven Instabilities



Contribution ID: 33

Type: **not specified**

## **Vlasov methods to calculate instability thresholds**

*Tuesday, 26 September 2006 14:30 (30 minutes)*

**Primary author:** Dr VENTURINI, Marco (LBNL)

**Presenter:** Dr VENTURINI, Marco (LBNL)

**Session Classification:** Impedance and Impedance-Driven Instabilities

Contribution ID: **34**

Type: **not specified**

## **A new solver for microwave instability**

*Tuesday, 26 September 2006 11:45 (30 minutes)*

**Primary author:** STUPAKOV, Gennady (SLAC)

**Presenter:** STUPAKOV, Gennady (SLAC)

**Session Classification:** Impedance and Impedance-Driven Instabilities

Contribution ID: 35

Type: **not specified**

## **Simulations of coupled-bunch instability from resistive-wall and HOMs in ILC DRs**

*Tuesday, 26 September 2006 16:30 (30 minutes)*

**Primary author:** Dr WANG, Lanfa (SLAC)

**Presenter:** Dr WANG, Lanfa (SLAC)

**Session Classification:** Impedance and Impedance-Driven Instabilities

Contribution ID: **36**

Type: **not specified**

## **Joint e-cloud and impedance discussion**

Contribution ID: 37

Type: **not specified**

## **Joint impedance and kickers discussion**

*Wednesday, 27 September 2006 14:00 (45 minutes)*

**Session Classification:** Injection/Extraction Kickers and Impedance Joint Session

Contribution ID: **38**

Type: **not specified**

## **Joint e-cloud and kickers discussion**

Contribution ID: 39

Type: **not specified**

## **Discussion: Operational experience with kickers**

*Wednesday, 27 September 2006 14:45 (45 minutes)*

**Session Classification:** Injection/Extraction Kickers

Contribution ID: 40

Type: **not specified**

## **Introduction: Damping Rings R&D Status**

*Tuesday, 26 September 2006 08:30 (30 minutes)*

**Primary author:** Dr WOLSKI, Andrzej (LBNL)

**Presenter:** Dr WOLSKI, Andrzej (LBNL)

**Session Classification:** Opening Plenary Session



Contribution ID: 41

Type: **not specified**

## **CesrTF**

*Wednesday, 27 September 2006 16:00 (45 minutes)*

**Primary author:** Dr PALMER, Mark (Cornell University LEPP)

**Presenter:** Dr PALMER, Mark (Cornell University LEPP)

**Session Classification:** Test Facilities Plenary

Contribution ID: 42

Type: **not specified**

## HERA-DR

*Wednesday, 27 September 2006 16:45 (45 minutes)*

**Primary author:** Dr WILLEKE, Ferdinand (DESY)

**Presenter:** Dr WILLEKE, Ferdinand (DESY)

**Session Classification:** Test Facilities Plenary

Contribution ID: 43

Type: **not specified**

## Discussion

*Wednesday, 27 September 2006 17:30 (30 minutes)*

**Session Classification:** Test Facilities Plenary

Contribution ID: 44

Type: **not specified**

## Tracking code for microwave instability

*Tuesday, 26 September 2006 12:15 (15 minutes)*

**Primary author:** Dr HEIFETS, Sam (SLAC)

**Presenter:** STUPAKOV, Gennady (SLAC)

**Session Classification:** Impedance and Impedance-Driven Instabilities

Contribution ID: 45

Type: **not specified**

## **Multiparticle tracking as a tool for studying microwave instability**

*Tuesday, 26 September 2006 15:00 (30 minutes)*

**Primary author:** Dr BANE, Karl (SLAC)

**Presenter:** Dr BANE, Karl (SLAC)

**Session Classification:** Impedance and Impedance-Driven Instabilities

Contribution ID: 46

Type: **not specified**

## **Advance modeling of damping rings vacuum chamber components**

*Tuesday, 26 September 2006 16:00 (30 minutes)*

**Primary author:** Dr NG, Cho (SLAC)

**Presenter:** Dr NG, Cho (SLAC)

**Session Classification:** Impedance and Impedance-Driven Instabilities

Contribution ID: 47

Type: **not specified**

## Clearing electrode measurements and simulations

*Wednesday, 27 September 2006 14:30 (30 minutes)*

**Primary author:** Dr MOLVIK, Art (LBNL)

**Presenter:** Dr MOLVIK, Art (LBNL)

**Session Classification:** Electron Cloud

Contribution ID: 48

Type: **not specified**

## FID Pulsers

*Tuesday, 26 September 2006 11:00 (45 minutes)*

**Primary author:** Dr EFANOV, Vladimir (FID Technology)

**Presenter:** Dr EFANOV, Vladimir (FID Technology)

**Session Classification:** Injection/Extraction Kickers



Contribution ID: 50

Type: **not specified**

## **Injection, extraction and abort line optics**

*Tuesday, 26 September 2006 09:25 (15 minutes)*

**Primary author:** Dr REICHEL, Ina (LBNL)

**Presenter:** Dr REICHEL, Ina (LBNL)

**Session Classification:** Injection/Extraction Kickers

Contribution ID: 51

Type: **not specified**

## Integrated Modeling of Damping Rings

**Primary author:** Dr BORLAND, Michael (ANL)

Contribution ID: 52

Type: **not specified**

## Integrated Modeling of Damping Rings

*Tuesday, 26 September 2006 09:10 (20 minutes)*

**Primary author:** Dr BORLAND, Michael (ANL)

**Presenter:** Dr BORLAND, Michael (ANL)

**Session Classification:** Impedance and Impedance-Driven Instabilities

Contribution ID: 53

Type: **not specified**

## **Impedance and Instabilities at the APS storage ring**

*Tuesday, 26 September 2006 09:30 (20 minutes)*

Kathy Harkay

**Primary author:** Dr HARKAY, Kathy (ANL)

**Presenter:** Dr HARKAY, Kathy (ANL)

**Session Classification:** Impedance and Impedance-Driven Instabilities

Contribution ID: 54

Type: **not specified**

## **Electron cloud generation and trapping in PSR quadrupole**

*Tuesday, 26 September 2006 17:30 (30 minutes)*

**Primary author:** Dr MACEK, Bob (LANL)

**Presenter:** Dr MACEK, Bob (LANL)

**Session Classification:** Electron Cloud

Contribution ID: 55

Type: **not specified**

## Discussions on e-cloud R&D plan

*Thursday, 28 September 2006 11:00 (30 minutes)*

**Primary author:** Dr PIVI, Mauro (SLAC)

**Presenter:** Dr PIVI, Mauro (SLAC)

**Session Classification:** Closing Plenary Session

Contribution ID: 56

Type: **not specified**

## Discussions on fast kickers R&D plan

*Thursday, 28 September 2006 11:30 (30 minutes)*

**Primary author:** Dr ZISMAN, Michael (LBNL)

**Presenter:** Dr ZISMAN, Michael (LBNL)

**Session Classification:** Closing Plenary Session

Contribution ID: 57

Type: **not specified**

## Discussions on impedance R&D plan

*Thursday, 28 September 2006 12:00 (30 minutes)*

**Primary author:** Dr WOLSKI, Andrzej (LBNL)

**Presenter:** Dr WOLSKI, Andrzej (LBNL)

**Session Classification:** Closing Plenary Session



Contribution ID: 58

Type: **not specified**

## Utilization of KEKB for ILC R&D

*Thursday, 28 September 2006 09:00 (30 minutes)*

**Primary author:** Dr SUETSUGU, Yusuke (KEK)

**Presenter:** Dr SUETSUGU, Yusuke (KEK)

**Session Classification:** Test Facilities Plenary (continued)