# ICFA Beam Dynamics Mini-Workshop on Deflecting/Crabbing Cavity Applications in Accelerators

Report of Contributions

ICFA Beam Dyn  $\,\cdots\,$  / Report of Contributions

Welcome

Contribution ID: 1 Type: not specified

#### Welcome

**Presenter:** CHATTOPADHYAY, Swapan (Cockcroft Institute, UK)

Contribution ID: 2 Type: not specified

# **Program Overview and Local Logistics**

**Presenter:** MCINTOSH, Peter (STFC)

Contribution ID: 3 Type: not specified

# **Overview on Deflecting Cavity Applications**

**Presenter:** HOSOYAMA, kenji (KEK, High Energy Accelerator Research Organization)

Contribution ID: 4 Type: **not specified** 

## **EUCARD Collaboration Crab Cavity Research**

**Presenter:** MCINTOSH, Peter (STFC)

Contribution ID: 6 Type: not specified

## **KEK-B Operational Experience with Crab Cavities**

Wednesday 1 September 2010 11:00 (30 minutes)

**Presenter:** FUNAKOSHI, Yoshihiro (KEK)

Session Classification: Plenary Session II

Contribution ID: 7 Type: **not specified** 

# LHC Luminosity Upgrade Using Deflecting/Crabbing Cavities

Wednesday 1 September 2010 14:15 (30 minutes)

Presenter: CALAGA, Rama (BNL)

**Session Classification:** Working Group Sessions

Contribution ID: 8 Type: not specified

# **Deflecting Cavities for Electron-ion Collider**

**Presenter:** BEN-ZVI, Ilan (Brookhaven National Laboratory)

Contribution ID: 9 Type: not specified

# **Motivation and CERN Strategy for Crab Cavities**

**Presenter:** CIAPALA, Edmond (CERN)

Contribution ID: 10 Type: not specified

# Deflecting RF Cavity for Emittance Exchange Experiment at ANL

Wednesday 1 September 2010 14:45 (30 minutes)

**Presenter:** SHI, Jiaru (CERN)

**Session Classification:** Working Group Sessions

Contribution ID: 11 Type: not specified

# **Deflecting Cavity Optimization/Wakefield**

**Presenter:** WANG, Haipeng Wang (Thomas Jefferson Lab)

Contribution ID: 12 Type: not specified

## Short Pulse X-ray (SPX) Project at the APS

Wednesday 1 September 2010 16:15 (30 minutes)

**Presenter:** Dr NASSIRI, Alireza (Argonne National Laboratory - DOE)

**Session Classification:** Working Group Sessions

Contribution ID: 13 Type: not specified

# **Multipactor Simulations**

Friday 3 September 2010 10:00 (30 minutes)

**Presenter:** PETER, Stoltz (Tech-X)

**Session Classification:** Working Group 1: Cavity-Beam Interactions

Contribution ID: 14 Type: not specified

# **Deflecting Cavities at SPring8**

Thursday 2 September 2010 12:00 (30 minutes)

Presenter: NAKAZATO, Toshiharu (Spring-8)

Session Classification: Working Group 2: Cavity and Coupler Design Studies

Contribution ID: 15 Type: not specified

#### **ILC/CLIC Crab Cavities**

**Presenter:** Dr BURT, Graeme (Cockcroft Institute)

Contribution ID: 16 Type: not specified

# Deflecting structures development for XFEL and PITZ TDS

Thursday 2 September 2010 11:00 (30 minutes)

Presenter: PARAMONOV, Valentin (Institute for Nuclear Research, RAS)

Session Classification: Working Group 2: Cavity and Coupler Design Studies

Contribution ID: 17 Type: not specified

# Compact Half-wave Resonator Crab Cavity for the LHC Upgrade

Thursday 2 September 2010 11:30 (30 minutes)

Presenter: LI, Zenghai (SLAC)

Session Classification: Working Group 2: Cavity and Coupler Design Studies

Contribution ID: 18 Type: not specified

#### **X-band Deflectors**

**Presenter:** Dr DOLGASHEV, Valery (SLAC)

Contribution ID: 19 Type: not specified

#### **CLIC Crab Cavities**

Thursday 2 September 2010 12:30 (30 minutes)

**Presenter:** AMBATTU, Praveen (University of Lancaster)

Session Classification: Working Group 2: Cavity and Coupler Design Studies

Contribution ID: 20 Type: not specified

# **L-band Deflecting Cavity Design**

Contribution ID: 21 Type: not specified

# **SRF 4-rod Deflecting Cavities**

**Presenter:** Dr BURT, Graeme (Cockcroft Institute)

Contribution ID: 22 Type: not specified

# **Deflecting Cavity Designs at the APS**

Contribution ID: 23 Type: not specified

**TBC** 

Contribution ID: 24 Type: not specified

#### **ALICE & SRF Infrastructure Tours**

Contribution ID: 25 Type: not specified

# Vertical Emittance Blowup in APS Storage Ring with RF Deflection Scheme

Friday 3 September 2010 09:00 (30 minutes)

Presenter: SAJAEV, Vadim (ANL)

**Session Classification:** Working Group 1: Cavity-Beam Interactions

Contribution ID: 26 Type: not specified

# Transverse-to-Longitudinal Emittance Exchange Using an RF Deflecting Cavity

Friday 3 September 2010 12:00 (30 minutes)

**Presenter:** Dr DOLGASHEV, Valery (SLAC)

**Session Classification:** Working Group 1: Cavity-Beam Interactions

Contribution ID: 27 Type: not specified

# **On-cell Waveguide Damping Tests**

**Presenter:** WANG, Haipeng Wang (Thomas Jefferson Lab)

Contribution ID: 28 Type: not specified

# **Deflecting Cavity Applications on ALICE and NLS**

Friday 3 September 2010 11:00 (30 minutes)

**Presenter:** Dr JAMISON, Steve (STFC Daresbury Laboratory)

**Session Classification:** Working Group 1: Cavity-Beam Interactions

Contribution ID: 29 Type: not specified

## **ANL Crab Cavity Development**

Friday 3 September 2010 11:30 (30 minutes)

**Presenter:** WANG, Haipeng Wang (Thomas Jefferson Lab)

**Session Classification:** Working Group 1: Cavity-Beam Interactions

Contribution ID: 30 Type: not specified

# **TEM-type Cavities**

Friday 3 September 2010 09:30 (30 minutes)

**Presenter:** RIMMER, Bob

**Session Classification:** Working Group 1: Cavity-Beam Interactions

Contribution ID: 31 Type: not specified

## **Working Group 1 Summary**

**Presenters:** BORLAND, Michael (ANL); HOSOYAMA, kenji (KEK, High Energy Accelerator Research Organization)

Contribution ID: 32 Type: not specified

# **Working Group 2 Summary**

**Presenters:** DELAYEN, Jean (Thomas Jefferson National Accelerator Facility); CALAGA, Rama Buchi Rao

Contribution ID: 33 Type: not specified

# **Closing Remarks (Announcing 2012 Workshop)**

**Presenters:** Dr NASSIRI, Alireza (Argonne National Laboratory - DOE); MCINTOSH, Peter (STFC)

Contribution ID: 34 Type: not specified

## **Beam Dynamics of Chirp Scheme in Storage Rings**

Wednesday 1 September 2010 12:00 (30 minutes)

Presenter: EMERY, Louis (Argonne National Laboratory)

Session Classification: Plenary Session II

Contribution ID: 35 Type: not specified

# **Working Group Charges**

Wednesday 1 September 2010 14:00 (15 minutes)

**Presenter:** Dr NASSIRI, Alireza (Argonne National Laboratory - DOE)

Session Classification: Working Group Session

ICFA Beam Dyn  $\,\cdots\,$  / Report of Contributions

Registration

Contribution ID: 36 Type: not specified

# Registration

Contribution ID: 37 Type: not specified

## Science of Short Pulse X-rays in Synchrotron Light Sources

**Presenter:** YUELIN, Li (ANL)

Contribution ID: 38 Type: not specified

### **EUCARD Collaboration Crab Cavity Research**

Wednesday 1 September 2010 12:30 (30 minutes)

**Presenter:** MCINTOSH, Peter (STFC)

Session Classification: Plenary Session II

Contribution ID: 39 Type: not specified

## **Emittance Exchange Experiment at FNAL and its Applications**

Wednesday 1 September 2010 15:45 (30 minutes)

**Presenter:** YIN-E, Sun (Fermi National Accelerator Laboratory)

**Session Classification:** Working Group Sessions

Contribution ID: 40 Type: not specified

### **Deflecting Cavity Development for Project-X**

**Presenter:** NIKOLAY, Solyak (FNAL)

Contribution ID: 41 Type: not specified

# Particularities of Normal Conducting L-band Delfecting Cavities

**Presenter:** PARAMONOV, Valentin (INR)

Contribution ID: 42 Type: not specified

### Dielectric Loaded Waveguide as a Deflecting Cavity

**Presenter:** KUSTOM, Bob (ANL)

Contribution ID: 43 Type: not specified

## **Workshop Close**

Friday 3 September 2010 13:45 (15 minutes)

**Session Classification:** Working Group 1: Cavity-Beam Interactions

Contribution ID: 44 Type: **not specified** 

### **Closing Remarks (Announcing 2012 Workshop)**

Friday 3 September 2010 12:30 (15 minutes)

**Session Classification:** Working Group 1: Cavity-Beam Interactions

Contribution ID: 45 Type: not specified

### Dielectric Loaded Waveguide as a deflecting cavity

Thursday 2 September 2010 09:00 (30 minutes)

**Presenter:** Dr KUSTOM, Bob (ANL)

Session Classification: Working Group2: Cavity and coupler design studies

Contribution ID: 46 Type: not specified

### **X-band Deflectors**

Thursday 2 September 2010 09:30 (30 minutes)

**Presenter:** Dr DOLGASHEV, Valery (SLAC)

Session Classification: Working Group2: Cavity and coupler design studies

Contribution ID: 47 Type: **not specified** 

## Experimental studies for ILC and CLIC crab cavity systems

Thursday 2 September 2010 10:00 (30 minutes)

Presenter: DEXTER, Amos (Lancaster University)

Session Classification: Working Group2: Cavity and coupler design studies

Coffee break

Contribution ID: 48 Type: not specified

### **Coffee break**

Thursday 2 September 2010 10:30 (30 minutes)

Session Classification: Working Group2: Cavity and coupler design studies

Contribution ID: 49 Type: not specified

# Particularities of normal conducting L-band deflecting cavities

Thursday 2 September 2010 14:00 (30 minutes)

**Presenter:** PARAMONOV, Valentin (Institute for Nuclear Research, RAS)

Session Classification: Working Group 2: Cavity and coupler design studies

Contribution ID: 50 Type: not specified

## **SRF 4-rod Deflecting Cavities**

Thursday 2 September 2010 14:30 (30 minutes)

**Presenter:** BURT, Graeme (Cockcroft Institute)

Session Classification: Working Group 2: Cavity and coupler design studies

Contribution ID: 51 Type: not specified

## Deflecting Cavity Development for Project-X (Webex)

Thursday 2 September 2010 15:00 (30 minutes)

Presenter: SOLYAK, Nikolay (FNAL)

Session Classification: Working Group 2: Cavity and coupler design studies

Contribution ID: 52 Type: not specified

### **Coffee break**

Thursday 2 September 2010 15:30 (30 minutes)

Session Classification: Working Group 2: Cavity and coupler design studies

Contribution ID: 53 Type: not specified

#### **ALICE and SRF Infrastructure Tour**

Thursday 2 September 2010 16:00 (1h 30m)

Session Classification: Working Group 2: Cavity and coupler design studies

Contribution ID: 54 Type: not specified

### **Shuttle to hotels**

Thursday 2 September 2010 17:30 (30 minutes)

Session Classification: Working Group 2: Cavity and coupler design studies

Contribution ID: 55 Type: not specified

### **Workshop Dinner (Peckforton Castle)**

Thursday 2 September 2010 18:00 (4h 30m)

Session Classification: Working Group 2: Cavity and coupler design studies

Registration

Contribution ID: 56 Type: not specified

## Registration

Wednesday 1 September 2010 08:30 (30 minutes)

Session Classification: Plenary Session I

Welcome

Contribution ID: 57 Type: not specified

#### Welcome

Wednesday 1 September 2010 09:00 (15 minutes)

Presenter: CHATTOPADHYAY, Swapan (Cockcroft Institute, UK)

**Session Classification:** Plenary Session I

Contribution ID: 58 Type: not specified

### Program overview and local logistics

Wednesday 1 September 2010 09:15 (15 minutes)

**Presenter:** MCINTOSH, Peter (STFC)

Session Classification: Plenary Session I

Contribution ID: 59 Type: not specified

# New type of a bunch compressor and generation of a short wavelength coherent radiation

Wednesday 1 September 2010 09:30 (30 minutes)

Presenter: SAJAEV, Vadim (ANL)

Session Classification: Plenary Session I

Contribution ID: 60 Type: not specified

## Science of short pulse x-rays in synchrotron light sources

Wednesday 1 September 2010 10:00 (30 minutes)

**Presenter:** LI, Yuelin (ANL)

Session Classification: Plenary Session I

Coffee break

Contribution ID: 61 Type: not specified

### **Coffee break**

Wednesday 1 September 2010 10:30 (30 minutes)

**Session Classification:** Plenary Session I

Contribution ID: 62 Type: not specified

### **Motivation and CERN Strategy for Crab Cavities**

Wednesday 1 September 2010 11:30 (30 minutes)

**Presenter:** CIAPALA, Edmond (CERN)

Session Classification: Plenary Session II