

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

Report of Contributions

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

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

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

Contribution ID: **56**

Type: **not specified**

Registration

Wednesday 1 September 2010 08:30 (30 minutes)

Session Classification: Plenary Session I

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

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