

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

**Report of Contributions**

Contribution ID: 0

Type: **not specified**

## **Working Group 1: Cavity-Beam Interaction (Robert Rimmer)**

*Thursday, July 19, 2012 1:30 PM (1h 30m)*

Contribution ID: 1

Type: **not specified**

## **Working Group 1: Cavity-Beam Interaction (Graeme Burt)**

*Thursday, July 19, 2012 3:30 PM (1 hour)*

Contribution ID: 2

Type: **not specified**

## **Working Group 2: Cavity Design: coupler, Damper and Optimization (K. Hosoyama)**

*Thursday, July 19, 2012 4:30 PM (1h 15m)*

Contribution ID: 3

Type: **not specified**

## **Working Group 2: Cavity Design Coupler, Damper and Optimization (Genfa WU)**

Contribution ID: 4

Type: **not specified**

## Tour of IMP Facility

*Friday, July 20, 2012 10:50 AM (1h 10m)*

Contribution ID: 5

Type: **not specified**

## Welcome Speech

**Presenter:** Dr XIAO, Guoqing (Institute of Modern Physics, Director)

Contribution ID: 6

Type: **not specified**

## Registration

*Wednesday, July 18, 2012 8:30 AM (30 minutes)*



Contribution ID: 9

Type: **not specified**

## Welcome

*Wednesday, July 18, 2012 9:00 AM (10 minutes)*

**Presenter:** Dr XIAO, Guoqing

**Session Classification:** Plenary Session

Contribution ID: **10**

Type: **not specified**

## **Accelerator activities at IMP**

*Wednesday, July 18, 2012 9:20 AM (30 minutes)*

**Presenter:** Dr ZHAO, Hongwei

**Session Classification:** Plenary Session

Contribution ID: 11

Type: **not specified**

## **Science of Short Pulse x-rays in Light Sources**

*Wednesday, July 18, 2012 9:50 AM (40 minutes)*

**Primary author:** Dr NASSIRI, Ali (ANL)

**Presenter:** Dr NASSIRI, Ali (ANL)

**Session Classification:** Plenary Session

Contribution ID: 12

Type: **not specified**

# **LHC Luminosity Upgrade and Deflecting Cavities Strategy**

*Wednesday, July 18, 2012 11:00 AM (30 minutes)*

**Presenter:** Dr CALAGA, Rama

**Session Classification:** Plenary Session

Contribution ID: 13

Type: **not specified**

## Program Overview

*Wednesday, July 18, 2012 9:10 AM (10 minutes)*

**Presenter:** LI, Derun (LBNL)

**Session Classification:** Plenary Session

Contribution ID: 15

Type: **not specified**

## Experiences with KEK-B Crab cavity

*Wednesday, July 18, 2012 11:30 AM (30 minutes)*

**Presenter:** Prof. HOSOYAMA, Kenji (KEK)

**Session Classification:** Plenary Session

Contribution ID: 16

Type: **not specified**

## **Deflecting cavities development in UK**

*Wednesday, July 18, 2012 1:30 PM (30 minutes)*

**Presenter:** Dr BURT, Graeme

**Session Classification:** Plenary Session

Contribution ID: 17

Type: **not specified**

## Compact TEM-type deflecting cavities

*Wednesday, July 18, 2012 2:00 PM (30 minutes)*

**Presenter:** Prof. DELAYEN, Jean (ODU)

**Session Classification:** Plenary Session



Contribution ID: **18**

Type: **not specified**

## **Emittance-exchange-based high harmonic generation scheme for FEL**

*Wednesday, July 18, 2012 2:30 PM (30 minutes)*

**Presenter:** Dr JIANG, Bocheng (SINAP)

**Session Classification:** Plenary Session

Contribution ID: 19

Type: **not specified**

# **The Theory of Beam Manipulation and Emittance Exchange**

*Wednesday, July 18, 2012 3:20 PM (30 minutes)*

**Presenter:** Prof. KIM, Kwang-Je

**Session Classification:** Plenary Session

Contribution ID: 20

Type: **not specified**

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

*Wednesday, July 18, 2012 3:50 PM (30 minutes)*

**Presenter:** Dr SAJEAV, Vadim

**Session Classification:** Plenary Session

Contribution ID: 21

Type: **not specified**

## **Clic Crab Cavities**

**Presenter:** Dr AMBATTU, Praveen

Contribution ID: 22

Type: **not specified**

## **ANL Wakefield Accelerator Facility Update**

*Friday, July 20, 2012 9:00 AM (30 minutes)*

**Presenter:** Dr GAI, Wei

**Session Classification:** Plenary Session

Contribution ID: 23

Type: **not specified**

## **Accelerator Activities at Tsinghua University**

*Friday, July 20, 2012 9:30 AM (30 minutes)*

**Presenter:** Prof. HUANG, Wenhui

**Session Classification:** Plenary Session

Contribution ID: 24

Type: **not specified**

# **Experimental Studies for ILC and CLIC Crab Cavity System**

*Friday, July 20, 2012 10:00 AM (30 minutes)*

**Presenter:** Dr AMBATTU, Praveen

**Session Classification:** Plenary Session

Contribution ID: 25

Type: **not specified**

## **Status of the SPX R&D (SPX0)**

**Presenter:** Dr WU, Genfa



Contribution ID: 26

Type: **not specified**

## **Advanced Simulations Techniques of Deflecting/Crabbing Cavities**

*Thursday, July 19, 2012 11:00 AM (30 minutes)*

**Presenter:** Dr LI, Zenghai

**Session Classification:** Plenary Session

Contribution ID: 27

Type: **not specified**

## **Wakefield/Impedance Considerations for APS and LHC Crab Cavities**

*Friday, July 20, 2012 2:30 PM (30 minutes)*

**Presenter:** Mr WANG, Haipeng

**Session Classification:** Plenary Session

Contribution ID: 28

Type: **not specified**

## **Advanced Simulation Techniques and Multipactoring Simulations**

*Thursday, July 19, 2012 11:30 AM (30 minutes)*

**Presenter:** Dr ZHOU, Chuandong (Tech-X Corporation)

**Session Classification:** Plenary Session

Contribution ID: 29

Type: **not specified**

## **SPX Cavities and Cryomodule Development**

*Friday, July 20, 2012 2:00 PM (30 minutes)*

**Presenter:** Dr RIMMER, Robert

**Session Classification:** Plenary Session

Contribution ID: **30**

Type: **not specified**

## Closing Remarks

*Friday, July 20, 2012 3:00 PM (15 minutes)*

**Presenters:** Dr NASSIRI, Ali (ANL); LI, Derun (LBNL); Dr CHEN, Huaibi (Tsinghua University); Dr HE, Yuan (IMP)

**Session Classification:** Plenary Session

Contribution ID: 32

Type: **not specified**

## **Applications of deflecting cavities in x-ray free electron lasers**

*Wednesday, July 18, 2012 4:20 PM (30 minutes)*

**Presenter:** Dr DING, Yuantao (SLAC)

**Session Classification:** Plenary Session

Contribution ID: **33**

Type: **not specified**

## **Clic Crab Cavities**

Contribution ID: **34**

Type: **not specified**

## **Clic Crab Cavities**

**Primary author:** Dr AMBATTU, Praveen (Lancaster University)



Contribution ID: 35

Type: **not specified**

## **Status of the SPX R&D (SPX0)**

*Thursday, July 19, 2012 9:30 AM (30 minutes)*

**Presenter:** Dr WU, Genfa

**Session Classification:** Plenary Session

**Track Classification:** Plenary Sessions

Contribution ID: 36

Type: **not specified**

## **Application of shaped beam for wakefield acceleration**

*Thursday, July 19, 2012 9:00 AM (30 minutes)*

**Presenter:** Dr GAI, Wei (ANL)

**Session Classification:** Plenary Session