

# Space Charge Collaboration Meeting 2014



## Report of Contributions

Contribution ID: 7

Type: **not specified**

**welcome**

Contribution ID: 8

Type: **not specified**

## **PTC\_py-ORBIT - Release & Benchmarking**

Contribution ID: 11

Type: **not specified**

## **Synergia-Release & Benchmarking**

*Tuesday, 20 May 2014 13:30 (30 minutes)*

**Presenter:** AMUNDSON, J

**Session Classification:** Codes

Contribution ID: 14

Type: **not specified**

## **PSB Experiments, 6D Tune evolution with SC**

*Tuesday, 20 May 2014 14:00 (30 minutes)*

**Presenter:** FORTE, Vincenzo

**Session Classification:** Experiments I

Contribution ID: 15

Type: **not specified**

## **PS Experiment - Analysis with Impact & MADX-SC**

*Tuesday, 20 May 2014 14:30 (30 minutes)*

**Presenter:** WASEF, Raymond (Institut National Polytechnique de Grenoble (FR))

**Session Classification:** Experiments I

Contribution ID: 16

Type: **not specified**

## **Indirect space charge induced injection oscillation in the PS**

*Tuesday, 20 May 2014 15:00 (30 minutes)*

**Presenter:** HUSCHAUER, Alexander (Vienna University of Technology (AT))

**Session Classification:** Experiments I

Contribution ID: **18**

Type: **not specified**

## **Conclusions Codes & Experiments**

*Tuesday, 20 May 2014 16:50 (40 minutes)*

**Presenter:** ROUND TABLE

**Session Classification:** Discussion I



Contribution ID: 27

Type: **not specified**

## **PSB - Study with high Intensity Beams**

*Tuesday, 20 May 2014 15:30 (30 minutes)*

**Presenter:** KOWALSKA, Magdalena Anna (Warsaw University of Technology (PL))

**Session Classification:** Experiments I

Contribution ID: 29

Type: **not specified**

## **Space Charge Solver in pyORBIT compared to those in PATRIC and Madx**

*Tuesday, 20 May 2014 16:20 (30 minutes)*

**Presenter:** APPEL, Sabrina (GSI)

**Session Classification:** Discussion I

Contribution ID: **32**

Type: **not specified**

## Welcome Address

*Tuesday, 20 May 2014 08:00 (10 minutes)*

**Presenter:** GAROBY, Roland (CERN)

**Session Classification:** Introduction

Contribution ID: 33

Type: **not specified**

## Purpose of the meeting

*Tuesday, 20 May 2014 08:10 (20 minutes)*

**Presenter:** SCHMIDT, Frank (CERN)

**Session Classification:** Introduction

Contribution ID: **34**

Type: **not specified**

## **PSB**

*Tuesday, 20 May 2014 08:30 (15 minutes)*

**Presenter:** BENEDETTO, Elena (CERN)

**Session Classification:** Projects

Contribution ID: 35

Type: **not specified**

## **Reviewn of the understanding of PIC noise**

*Wednesday, 21 May 2014 09:00 (30 minutes)*

**Presenter:** STRUCKMEIER, Jürgen

**Session Classification:** Noise I

Contribution ID: 36

Type: **not specified**

## **Artificial collisions and scaling laws for emittance growth in computer simulations of intense beams**

*Wednesday, 21 May 2014 09:30 (30 minutes)*

**Presenter:** Dr BOINE-FRANKENHEIM, Oliver (GSI, Darmstadt, Germany)

**Session Classification:** Noise I

Contribution ID: 37

Type: **not specified**

## **Noise Analysis in very long Lines & FMM in ORBIT for Mitigation**

*Wednesday, 21 May 2014 10:30 (30 minutes)*

**Presenter:** HOLMES, Jeffrey A (O)

**Session Classification:** Noise II



Contribution ID: **38**

Type: **not specified**

**PS**

*Tuesday, 20 May 2014 08:45 (15 minutes)*

**Presenter:** Dr GILARDONI, Simone (CERN)

**Session Classification:** Projects

Contribution ID: **39**

Type: **not specified**

## **SPS**

*Tuesday, 20 May 2014 09:00 (15 minutes)*

**Presenter:** BARTOSIK, Hannes (CERN)

**Session Classification:** Projects

Contribution ID: 40

Type: **not specified**

## **Mixing of Particles due to Noise in Synergia**

*Wednesday, 21 May 2014 11:00 (30 minutes)*

**Presenter:** AMUNDSON, James

**Session Classification:** Noise II

Contribution ID: 41

Type: **not specified**

## **Numerical Model and Scaling Law of PIC Noise**

*Wednesday, 21 May 2014 11:30 (30 minutes)*

**Presenter:** KESTING, Frederik

**Session Classification:** Noise II

Contribution ID: 42

Type: **not specified**

## Leir

*Tuesday, 20 May 2014 09:15 (15 minutes)*

**Presenter:** BODENDORFER, Michael Andreas (CERN)

**Session Classification:** Projects

Contribution ID: 43

Type: **not specified**

## Elena

*Tuesday, 20 May 2014 09:30 (15 minutes)*

**Presenter:** CARLI, Christian (CERN)

**Session Classification:** Projects

Contribution ID: 45

Type: **not specified**

## **SC Simulations for 4th order Resonance**

*Wednesday, 21 May 2014 14:30 (30 minutes)*

**Presenter:** MACHIDA, Shinji (STFC/RAL)

**Session Classification:** Experiments II

Contribution ID: 46

Type: **not specified**

## **Recent Results for RHIC with frozen SC & BB (MADX-SC)**

*Wednesday, 21 May 2014 15:00 (30 minutes)*

**Presenter:** MONTAG, Christoph (BNL)

**Session Classification:** Experiments II



Contribution ID: 47

Type: **not specified**

## **PTC\_py-ORBIT - Release & Benchmarking**

*Tuesday, 20 May 2014 10:15 (30 minutes)*

**Presenter:** HOLMES, Jeffrey A

**Session Classification:** Codes

Contribution ID: 48

Type: **not specified**

## **PS Experiment - Micromap Analysis**

*Wednesday, 21 May 2014 15:30 (30 minutes)*

**Presenter:** FRANCHETTI, Giuliano (GSI - Helmholtzzentrum für Schwerionenforschung GmbH (DE))

**Session Classification:** Experiments II

Contribution ID: 49

Type: **not specified**

## **Impact - Benchmarking**

*Tuesday, 20 May 2014 10:45 (30 minutes)*

**Presenter:** QIANG, Ji (Lawrence Berkeley National Laboratory)

**Session Classification:** Codes

Contribution ID: 50

Type: **not specified**

## **Frozen SC Model in MADX-SC- Developments**

*Tuesday, 20 May 2014 11:15 (30 minutes)*

**Presenter:** KAPIN, Valery (Unknown)

**Session Classification:** Codes

Contribution ID: 51

Type: **not specified**

## **Hollow Bunch for potential SC Mitigation**

*Wednesday, 21 May 2014 16:30 (30 minutes)*

**Presenter:** OEFTIGER, Adrian (Ecole Polytechnique Federale de Lausanne (CH))

**Session Classification:** Discussion II

Contribution ID: 52

Type: **not specified**

## **Conclusions Noise & Future Work**

*Wednesday, 21 May 2014 17:00 (1h 30m)*

**Session Classification:** Discussion II

Contribution ID: 53

Type: **not specified**

## **Grid noise and entropy growth in 3D PIC simulation**

*Wednesday, 21 May 2014 14:00 (30 minutes)*

**Presenter:** HOFMANN, Ingo (GSI Darmstadt)

**Session Classification:** Noise II