

# **Advanced QED methods for future accelerators**

## **Report of Contributions**

Contribution ID: 0

Type: **not specified**

## Guinea-Pig++ Update

*Wednesday, 4 March 2009 09:00 (30 minutes)*

**Primary author:** Dr RIMBAULT, Cecile (LAL)

**Presenter:** Dr RIMBAULT, Cecile (LAL)

**Session Classification:** Session 3: Simulation of IFQED processes in colliders

Contribution ID: 1

Type: **not specified**

## **Workshop welcome and Overview**

*Tuesday, 3 March 2009 11:00 (45 minutes)*

**Primary author:** Prof. DAINTON, John

**Presenter:** Prof. DAINTON, John

**Session Classification:** Introduction

Contribution ID: 2

Type: **not specified**

## Scope of the Workshop

*Tuesday, 3 March 2009 11:45 (30 minutes)*

**Primary author:** Dr BAILEY, Ian (Cockcroft Institute/ University of Liverpool)

**Presenter:** Dr BAILEY, Ian (Cockcroft Institute/ University of Liverpool)

**Session Classification:** Introduction

Contribution ID: 3

Type: **not specified**

## Recent development of operator quasiclassical method

*Tuesday, 3 March 2009 14:30 (1 hour)*

**Primary author:** Prof. BAIER, Vladimir (Institute of Nuclear Physics, Novosibirsk)

**Presenter:** Prof. BAIER, Vladimir (Institute of Nuclear Physics, Novosibirsk)

**Session Classification:** Session 1: Intense Field QED (IFQED) methods

Contribution ID: 4

Type: **not specified**

## **The method of Nikishov and Ritus**

*Tuesday, 3 March 2009 15:30 (30 minutes)*

**Primary author:** Dr HARTIN, Anthony (DESY)

**Presenter:** Dr HARTIN, Anthony (DESY)

**Session Classification:** Session 1: Intense Field QED (IFQED) methods

Contribution ID: 5

Type: **not specified**

# The Furry Representation

*Tuesday, 3 March 2009 12:15 (45 minutes)*

**Primary author:** MOORTGAT-PICK, Gudrid (Unknown)

**Presenter:** MOORTGAT-PICK, Gudrid (Unknown)

**Session Classification:** Introduction

Contribution ID: 7

Type: **not specified**

## Workshop Summary

*Wednesday, 4 March 2009 15:30 (30 minutes)*

**Presenter:** Dr HESSELBACH, Stefan (IPPP, Durham University)

**Session Classification:** Discussion and Summary

Contribution ID: 8

Type: **not specified**

## **Vacuum polarization effects in intense laser fields**

*Tuesday, 3 March 2009 16:20 (35 minutes)*

**Primary author:** Dr DI PIAZZA, Antonino

**Presenter:** Dr DI PIAZZA, Antonino

**Session Classification:** Session 2: IFQED calculations

Contribution ID: 9

Type: **not specified**

## Compton Scattering at High Intensities

*Tuesday, 3 March 2009 16:55 (35 minutes)*

**Presenter:** Dr HEINZL, Tom

**Session Classification:** Session 2: IFQED calculations

Contribution ID: 12

Type: **not specified**

## **IFQED processes in CAIN**

*Wednesday, 4 March 2009 10:00 (30 minutes)*

**Presenter:** HARTIN, Anthony (DESY)

**Session Classification:** Session 3: Simulation of IFQED processes in colliders

Contribution ID: 13

Type: **not specified**

## **Strong fields and recycled accelerator parts as a laboratory for fundamental physics**

*Wednesday, 4 March 2009 11:00 (30 minutes)*

**Presenter:** Dr JAECKEL, Joerg (IPPP Durham)

**Session Classification:** Session 4: IFQED Applications

Contribution ID: 14

Type: **not specified**

## **Lepton pair creation in strong laser fields**

*Wednesday, 4 March 2009 11:30 (30 minutes)*

**Presenter:** Dr HATSAGORTSYAN, Karen

**Session Classification:** Session 4: IFQED Applications

Contribution ID: 15

Type: **not specified**

## Experiments on strong field QED in crystals

*Wednesday, 4 March 2009 12:00 (30 minutes)*

**Presenter:** Dr UGGERHOEJ, Ulrik

**Session Classification:** Session 4: IFQED Applications

Contribution ID: 16

Type: **not specified**

## **Geometric and Ultrarelativistic methods for accelerator physics**

*Wednesday, 4 March 2009 12:30 (30 minutes)*

**Primary author:** Dr GRATUS, Jonathon

**Presenter:** Dr GRATUS, Jonathon

**Session Classification:** Session 4: IFQED Applications