

CARE-HHH-APD BEAM'07



Report of Contributions

Contribution ID: 0

Type: **not specified**

Welcome

Contribution ID: 1

Type: **not specified**

Welcome (by Robert Aymar, CERN Director General)

Monday, 1 October 2007 09:00 (15 minutes)

Session Classification: Session 1 Introduction & overview

Contribution ID: 2

Type: **not specified**

Scenarios for the LHC Upgrade

Monday, 1 October 2007 09:15 (30 minutes)

Primary authors: ZIMMERMANN, Frank; SCANDALE, Walter

Presenter: Dr ZIMMERMANN, Frank (CERN)

Session Classification: Session 1 Introduction & overview

Contribution ID: 3

Type: **not specified**

Summary of the LARP Mini-Workshop on Beam-beam Compensation 2007

Monday, 1 October 2007 09:45 (20 minutes)

Primary author: FISCHER ET AL., Wolfram

Presenter: Dr FISCHER, Wolfram (BNL)

Session Classification: Session 2 Beam-beam & compensation schemes

Contribution ID: 4

Type: **not specified**

Electron Lenses for Compensation of Beam-beam Effects

Monday, 1 October 2007 10:05 (20 minutes)

Presenter: Dr SHILTSEV, Vladimir (Fermilab)

Session Classification: Session 2 Beam-beam & compensation schemes

Contribution ID: 5

Type: **not specified**

Beam-beam and Emittance Growth with Wire Compensators

Monday, 1 October 2007 10:25 (20 minutes)

Presenter: Mr DORDA, Ulrich (Technische Universitaet Wien (TU))

Session Classification: Session 2 Beam-beam & compensation schemes

Contribution ID: 6

Type: **not specified**

Beam-beam and Emittance Growth with Crab Cavities

Monday, 1 October 2007 11:15 (20 minutes)

Presenter: Dr CALAGA, Rama (BNL)

Session Classification: Session 2 Beam-beam & compensation schemes

Contribution ID: 7

Type: **not specified**

Beam-beam with a few long-range Encounters at Short Distance

Monday, 1 October 2007 11:35 (20 minutes)

Presenter: Mrs ABREU, Natalia (BNL)

Session Classification: Session 2 Beam-beam & compensation schemes

Contribution ID: 8

Type: **not specified**

Study of Beam-Beam Interaction with a Large Piwinski Angle at LHC

Monday, 1 October 2007 11:55 (20 minutes)

Presenter: Dr OHMI, Kazuhito (KEK)

Session Classification: Session 2 Beam-beam & compensation schemes

Contribution ID: 9

Type: **not specified**

Discussion

Contribution ID: **10**

Type: **not specified**

Discussion

Monday, 1 October 2007 12:15 (30 minutes)

Session Classification: Session 2 Beam-beam & compensation schemes

Contribution ID: 11

Type: **not specified**

Luminosity Leveling with Angle

Monday, 1 October 2007 14:00 (20 minutes)

Primary authors: STERBINI, Guido; KOUTCHOUK, Jean-Pierre

Presenter: Mr STERBINI, Guido (Universita di Roma I "La Sapienza")

Session Classification: Session 3 Luminosity performance

Contribution ID: 12

Type: **not specified**

Leveling with beta*

Monday, 1 October 2007 14:20 (20 minutes)

Presenter: Mr LEBEDEV, Valeri (FNAL)

Session Classification: Session 3 Luminosity performance

Contribution ID: 13

Type: **not specified**

Impact of noise in hadron colliders

Monday, 1 October 2007 14:40 (30 minutes)

Presenter: Dr SEN, Tanaji (FNAL)

Session Classification: Session 3 Luminosity performance

Contribution ID: 14

Type: **not specified**

Turnaround Time in Modern Hadron Colliders & Store-length Optimization

Monday, 1 October 2007 15:10 (30 minutes)

Presenter: Dr BRUNING, Oliver (CERN)

Session Classification: Session 3 Luminosity performance

Contribution ID: 16

Type: **not specified**

LARP contributions to the LHC phase-2 collimation

Monday, 1 October 2007 16:30 (20 minutes)

Presenter: Dr MARKIEWICZ, Thomas (SLAC)

Session Classification: Session 4 Advanced collimation

Contribution ID: 17

Type: **not specified**

Recent crystal experiments

Monday, 1 October 2007 16:50 (20 minutes)

Presenter: Dr SCANDALE, Walter (CERN)

Session Classification: Session 4 Advanced collimation

Contribution ID: **18**

Type: **not specified**

Collimation issues for the two LHC+ scenarios and future plans

Monday, 1 October 2007 16:10 (20 minutes)

Presenter: Dr ASSMANN, Ralph (CERN)

Session Classification: Session 4 Advanced collimation

Contribution ID: **19**

Type: **not specified**

Electron Lenses for Particle Collimation in LHC

Monday, 1 October 2007 17:10 (20 minutes)

Presenter: Dr SHILTSEV, Vladimir (Fermilab)

Session Classification: Session 4 Advanced collimation

Contribution ID: 20

Type: **not specified**

Discussion

Monday, 1 October 2007 17:30 (50 minutes)

Session Classification: Session 4 Advanced collimation

Contribution ID: 21

Type: **not specified**

LHC injector upgrade plan

Tuesday, 2 October 2007 09:00 (30 minutes)

Presenter: Mr GAROBY, Roland (CERN)

Session Classification: Session 5 LHC+ beam generation, injector upgrade & FAIR

Contribution ID: 22

Type: **not specified**

Ultimate LHC Beam

Tuesday, 2 October 2007 09:30 (20 minutes)

Presenter: Dr ARDUINI, Gianluigi (CERN)

Session Classification: Session 5 LHC+ beam generation, injector upgrade & FAIR

Contribution ID: 23

Type: **not specified**

Generation and Stability of Intense Long Flat Bunches

Tuesday, 2 October 2007 09:50 (40 minutes)

Primary authors: ZIMMERMANN, Frank; SANTIAGO-GONZALES, I.

Presenters: Dr ZIMMERMANN, Frank (CERN); Dr SANTIAGO GONZALES, I. (University of the Basque County)

Session Classification: Session 5 LHC+ beam generation, injector upgrade & FAIR

Contribution ID: 25

Type: **not specified**

Slip Stacking

Tuesday, 2 October 2007 11:00 (20 minutes)

Presenter: Dr SEIYA, Kiyomi (FNAL)

Session Classification: Session 5 LHC+ beam generation, injector upgrade & FAIR

Contribution ID: 26

Type: **not specified**

BNL upgrade plans

Tuesday, 2 October 2007 11:20 (30 minutes)

Presenter: Dr FISCHER, Wolfram (BNL)

Session Classification: Session 5 LHC+ beam generation, injector upgrade & FAIR

Contribution ID: 27

Type: **not specified**

FAIR challenges

Tuesday, 2 October 2007 11:50 (30 minutes)

Presenter: Dr SPILLER, Peter (GSI)

Session Classification: Session 5 LHC+ beam generation, injector upgrade & FAIR

Contribution ID: 28

Type: **not specified**

Discussion

Tuesday, 2 October 2007 12:20 (45 minutes)

Session Classification: Session 5 LHC+ beam generation, injector upgrade & FAIR

Contribution ID: 29

Type: **not specified**

Performance and beam losses in the SIS18 synchrotron

Tuesday, 2 October 2007 14:00 (30 minutes)

Presenter: Dr SPILLER, Peter (GSI)

Session Classification: Session 1 Beam losses, halo generation, and Collimation

Contribution ID: **30**

Type: **not specified**

Beam Losses in the PS during CT Extraction

Tuesday, 2 October 2007 14:30 (30 minutes)

Primary authors: BARRANCO, Javier; GILARDONI, Simone

Co-author: Dr GILARDONI, Simone (CERN)

Presenters: Mr BARRANCO, Javier (CERN); Dr GILARDONI, Simone (CERN)

Session Classification: Session 1 Beam losses, halo generation, and Collimation

Contribution ID: **31**

Type: **not specified**

Measured and simulated loss maps with LHC collimators in the SPS and LHC

Tuesday, 2 October 2007 15:00 (30 minutes)

Presenter: Dr REDAELLI, Stefano (CERN)

Session Classification: Session 1 Beam losses, halo generation, and Collimation

Contribution ID: 32

Type: **not specified**

Ion and Proton Loss Patterns at the SPS and LHC

Tuesday, 2 October 2007 15:30 (30 minutes)

Primary author: BRUCE ET AL., Roderik

Session Classification: Session 1 Beam losses, halo generation, and Collimation

Contribution ID: 33

Type: **not specified**

Analysis of Resonances Induced by the SIS18 Electron Cooler

Tuesday, 2 October 2007 16:30 (30 minutes)

Primary authors: FRANCHETTI, G.; BOINE-FRANKENHEIM, O.; SORGE, Stephan

Presenter: Dr SORGE, Stefan (GSI)

Session Classification: Session 1 Beam losses, halo generation, and Collimation

Contribution ID: 34

Type: **not specified**

Lattice and collimation concept for the FAIR synchrotrons

Tuesday, 2 October 2007 17:00 (30 minutes)

Presenters: Mr OMET, Carsten (GSI); Dr SPILLER, Peter (GSI)

Session Classification: Session 1 Beam losses, halo generation, and Collimation

Contribution ID: 35

Type: **not specified**

Resonance Trapping, Stochastic Diffusion and Incoherent Emittance Growth Induced by Structured Electron-cloud Pinch

Tuesday, 2 October 2007 17:30 (30 minutes)

Presenters: Dr ZIMMERMANN, Frank (cern); Dr FRANCHETTI, Giuliano (GSI)

Session Classification: Session 1 Beam losses, halo generation, and Collimation

Contribution ID: 36

Type: **not specified**

Loss maps of RHIC

Tuesday, 2 October 2007 18:00 (30 minutes)

Primary author: ROBERT-DEMOLAIZE, Guillaume

Presenter: Dr ROBERT-DEMOLAIZE, Guillaume (BNL)

Session Classification: Session 1 Beam losses, halo generation, and Collimation

Contribution ID: 37

Type: **not specified**

Discussion

Tuesday, 2 October 2007 18:30 (30 minutes)

Session Classification: Session 1 Beam losses, halo generation, and Collimation

Contribution ID: 38

Type: **not specified**

Influence of Uniform Electron Clouds on the Coupling Impedance

Wednesday, 3 October 2007 09:00 (30 minutes)

Presenters: Dr AL-KHATEEB, Ahmed (Yarmouk University and GSI); Prof. BOINE-FRANKENHEIM, Oliver (GSI); Dr HASSE, Rainer W. (GSI Darmstadt)

Session Classification: Session 2 Space charge and instabilities

Contribution ID: 39

Type: **not specified**

Transverse beam stability with space charge

Wednesday, 3 October 2007 09:30 (30 minutes)

Presenter: Dr KORNILOV, Vladimir (GSI)

Session Classification: Session 2 Space charge and instabilities

Contribution ID: 40

Type: **not specified**

Stability of coherent dipole oscillations with space charge

Wednesday, 3 October 2007 10:00 (30 minutes)

Presenters: CHORNIY, Oleksandr (GSI); Prof. BOINE-FRANKENHEIM, Oliver (GSI); Dr WEILAND, Thomas (TU Darmstadt)

Session Classification: Session 2 Space charge and instabilities

Contribution ID: 41

Type: **not specified**

Measurement and simulation and transverse Schottky signals and BTF in SIS 18

Wednesday, 3 October 2007 11:00 (30 minutes)

Presenters: Prof. BOINE-FRANKENHEIM, Oliver (GSI); Mr PARET, Stefan (GSI); Dr KORNILOV, Vladimir (GSI)

Session Classification: Session 2 Space charge and instabilities

Contribution ID: 42

Type: **not specified**

Benchmark of ACCSIM-ORBIT Codes for Space Charge and Electron-lens Compensation

Wednesday, 3 October 2007 11:30 (20 minutes)

Presenter: Dr AIBA, Masamitsu (CERN)

Session Classification: Session 2 Space charge and instabilities

Contribution ID: 43

Type: **not specified**

Space-charge Measurements at the PSB

Wednesday, 3 October 2007 11:50 (20 minutes)

Presenter: Dr CHANEL, Michel (CERN)

Session Classification: Session 2 Space charge and instabilities

Contribution ID: 44

Type: **not specified**

Transverse Mode Coupling Instability in the SPS: Headtail Simulations and Moses Calculations

Wednesday, 3 October 2007 12:10 (20 minutes)

Primary authors: SALVANT, B.; MÉTRAL, E.; RUMOLO, G.; TOMÁS, R.

Presenter: Mr SALVANT, Benoit (EPFL)

Session Classification: Session 2 Space charge and instabilities

Contribution ID: 45

Type: **not specified**

Discussion

Wednesday, 3 October 2007 12:30 (30 minutes)

Session Classification: Session 2 Space charge and instabilities

Contribution ID: 46

Type: **not specified**

Mode Coupling Instability for Localized Impedances (Francesco's Thesis)

Wednesday, 3 October 2007 14:40 (15 minutes)

Presenter: Dr ZOTTER, Bruno (CERN)

Session Classification: Francesco Ruggiero Memorial Symposium, 3 October

Contribution ID: 47

Type: **not specified**

Impedances

Wednesday, 3 October 2007 14:55 (15 minutes)

Presenter: Prof. PALUMBO, Luigi (Università di Roma)

Session Classification: Francesco Ruggiero Memorial Symposium, 3 October

Contribution ID: 48

Type: **not specified**

Analytic Approximations of Tune Shifts and Beam Coupling Impedances in the LHC

Wednesday, 3 October 2007 15:10 (15 minutes)

Presenter: Dr PETRACCA, Stefania (Università del Sannio)

Session Classification: Francesco Ruggiero Memorial Symposium, 3 October

Contribution ID: 49

Type: **not specified**

Synchrobeam mapping

Wednesday, 3 October 2007 15:25 (15 minutes)

Presenter: Prof. HIRATA, Kohji (SOKENDAI)

Session Classification: Francesco Ruggiero Memorial Symposium, 3 October

Contribution ID: 50

Type: **not specified**

MAD Programme, and Remarks from Weiren Chou

Wednesday, 3 October 2007 15:40 (15 minutes)

Presenter: Dr QIN, Qing (IHEP, Beijing)

Session Classification: Francesco Ruggiero Memorial Symposium, 3 October

Contribution ID: 51

Type: **not specified**

Some of Francesco Ruggiero's Insights into Collective Effects

Wednesday, 3 October 2007 15:55 (15 minutes)

Presenter: Dr BERG, J. Scott (BNL)

Session Classification: Francesco Ruggiero Memorial Symposium, 3 October

Contribution ID: 52

Type: **not specified**

Echoes, Zbase, e-cloud

Wednesday, 3 October 2007 16:40 (15 minutes)

Presenter: Dr BRUNING, Oliver (CERN)

Session Classification: Francesco Ruggiero Memorial Symposium, 3 October

Contribution ID: 53

Type: **not specified**

E-cloud crash programme & US-LARP

Wednesday, 3 October 2007 16:55 (15 minutes)

Presenter: Dr FURMAN, Miguel (LBNL)

Session Classification: Francesco Ruggiero Memorial Symposium, 3 October

Contribution ID: 54

Type: **not specified**

Beam wall interaction in LHC liner: a former student experience

Wednesday, 3 October 2007 17:10 (15 minutes)

Presenter: Dr MOSTACCI, Andrea (CERN)

Session Classification: Francesco Ruggiero Memorial Symposium, 3 October

Contribution ID: 55

Type: **not specified**

Luminosity optimization and nuclear collisions

Wednesday, 3 October 2007 17:25 (15 minutes)

Presenter: Dr ZIMMERMANN, Frank (CERN)

Session Classification: Francesco Ruggiero Memorial Symposium, 3 October

Contribution ID: 56

Type: **not specified**

DAFNE upgrade & EPS-IGA

Wednesday, 3 October 2007 17:40 (15 minutes)

Presenter: Dr BISCARI, Caterina (Istituto Nazionale di Fisica Nucleare (INFN))

Session Classification: Francesco Ruggiero Memorial Symposium, 3 October

Contribution ID: 59

Type: **not specified**

Linac-4

Thursday, 4 October 2007 09:00 (30 minutes)

Presenter: Dr VRETENAR, Maurizio (CERN)

Session Classification: Session 1 Superconducting Proton Linac

Contribution ID: **60**

Type: **not specified**

The Low Power SPL

Thursday, 4 October 2007 09:30 (30 minutes)

Presenter: Dr GERIGK, Frank (CERN)

Session Classification: Session 1 Superconducting Proton Linac

Contribution ID: 61

Type: **not specified**

SNS Experience with a High-energy Superconducting Proton Linac

Thursday, 4 October 2007 10:00 (30 minutes)

Primary authors: CAMPISI, I.; GALAMBOS, J.; KIM, S.H.

Presenter: Dr GALAMBOS, John (Oak Ridge National Laboratory)

Session Classification: Session 1 Superconducting Proton Linac

Contribution ID: **62**

Type: **not specified**

ESS Plans and Synergies with CERN

Thursday, 4 October 2007 11:00 (30 minutes)

Presenter: Dr BONGARDT, Klaus (Forschungszentrum Juelich)

Session Classification: Session 1 Superconducting Proton Linac

Contribution ID: **63**

Type: **not specified**

Development for laser-based H- stripping at SNS

Thursday, 4 October 2007 11:30 (30 minutes)

Presenter: Dr GALAMBOS, John (Oak Ridge National Laboratory)

Session Classification: Session 1 Superconducting Proton Linac

Contribution ID: 64

Type: **not specified**

Reliability of a s.c. linac from the ADS perspective

Thursday, 4 October 2007 12:00 (30 minutes)

Presenter: Dr PIERINI, Paolo (INFN Milano)

Session Classification: Session 1 Superconducting Proton Linac

Contribution ID: **66**

Type: **not specified**

Linear Optics Design for PS2

Thursday, 4 October 2007 14:00 (30 minutes)

Primary author: PAPAPHILIPPOU ET AL., Y.

Presenter: Dr PAPAPHILIPPOU, Yannis (CERN)

Session Classification: Section 2 PS2

Contribution ID: 67

Type: **not specified**

Impedance Estimates and Requirements for the PS2

Thursday, 4 October 2007 14:30 (30 minutes)

Presenter: Mr LEBEDEV, Valeri (FNAL)

Session Classification: Section 2 PS2

Contribution ID: **68**

Type: **not specified**

Modern schemes for transition crossing

Thursday, 4 October 2007 15:00 (30 minutes)

Presenters: Dr BAI, Mei (BNL); Dr PEGGS, Stephen (BNL)

Session Classification: Section 2 PS2

Contribution ID: 70

Type: **not specified**

E-cloud remedies and PS2 vacuum design

Thursday, 4 October 2007 16:30 (30 minutes)

Presenter: Dr JIMENEZ, Jose Miguel (CERN)

Session Classification: Section 2 PS2

Contribution ID: 71

Type: **not specified**

Discussion

Thursday, 4 October 2007 17:00 (1 hour)

Session Classification: Section 2 PS2

Contribution ID: 72

Type: **not specified**

SPS Challenges

Friday, 5 October 2007 09:00 (30 minutes)

Presenter: Dr SHAPOSHNIKOVA, Elena (CERN)

Session Classification: Session 3 SPS upgrade

Contribution ID: 73

Type: **not specified**

SPS Impedance

Friday, 5 October 2007 09:30 (30 minutes)

Primary author: MÉTRAL ET AL., S.

Presenter: Dr METRAL, Elias (CERN)

Session Classification: Session 3 SPS upgrade

Contribution ID: 74

Type: **not specified**

Experimental Studies on the SPS e-cloud

Friday, 5 October 2007 10:00 (30 minutes)

Primary author: RUMOLO, G.

Presenter: Dr RUMOLO, Giovanni (CERN)

Session Classification: Session 3 SPS upgrade

Contribution ID: 75

Type: **not specified**

SPS chamber upgrade: TiN coating

Friday, 5 October 2007 10:30 (30 minutes)

Presenters: Mr CHIGGIATO, Paolo (CERN); Mr CALATRONI, Sergio (CERN)

Session Classification: Session 3 SPS upgrade

Contribution ID: 76

Type: **not specified**

Clearing electrodes: Past experience, technological aspects and potential

Friday, 5 October 2007 11:30 (30 minutes)

Presenters: Mr CASPERS, Fritz (CERN); Dr KROYER, Tom (CERN)

Session Classification: Session 3 SPS upgrade

Contribution ID: 77

Type: **not specified**

Fast Cycled Superconducting Magnets for the Upgrade of the LHC Injector Complex

Friday, 5 October 2007 12:00 (30 minutes)

Primary author: BOTTURA ET AL., L.

Presenter: Mr BOTTURA, Luca (CERN)

Session Classification: Session 3 SPS upgrade

Contribution ID: 78

Type: **not specified**

Discussion

Friday, 5 October 2007 12:30 (30 minutes)

Session Classification: Session 3 SPS upgrade

Contribution ID: 79

Type: **not specified**

Scenarios for the LHC Upgrade

Friday, 5 October 2007 14:00 (10 minutes)

Presenter: Dr SCANDALE, Walter (CERN)

Session Classification: Session 4 BEAM'07 Summaries

Contribution ID: **80**

Type: **not specified**

Beam-Beam & Compensation Schemes : Conclusions

Friday, 5 October 2007 14:10 (20 minutes)

Presenter: Dr KOUTCHOUK, Jean-Pierre (CERN)

Session Classification: Session 4 BEAM'07 Summaries

Contribution ID: **81**

Type: **not specified**

Collimation, machine protection & INB

Friday, 5 October 2007 14:30 (20 minutes)

Presenter: Dr ASSMANN, Ralph (CERN)

Session Classification: Session 4 BEAM'07 Summaries

Contribution ID: **82**

Type: **not specified**

Luminosity performance

Friday, 5 October 2007 14:50 (20 minutes)

Presenter: Dr SHILTSEV, Vladimir (Fermilab)

Session Classification: Session 4 BEAM'07 Summaries

Contribution ID: **83**

Type: **not specified**

Beam generation

Friday, 5 October 2007 15:10 (20 minutes)

Presenter: Dr SHAPOSHNIKOVA, Elena (CERN)

Session Classification: Session 4 BEAM'07 Summaries

Contribution ID: **84**

Type: **not specified**

Summary of Session on Beam Losses, Halo Generation and Collimation

Friday, 5 October 2007 16:00 (20 minutes)

Primary author: RUMOLO ET AL., G.

Presenter: Dr RUMOLO, Giovanni (CERN)

Session Classification: Session 4 BEAM'07 Summaries

Contribution ID: 85

Type: **not specified**

Space charge & instabilities

Friday, 5 October 2007 16:20 (20 minutes)

Presenter: Prof. BOINE-FRANKENHEIM, Oliver (GSI)

Session Classification: Session 4 BEAM'07 Summaries

Contribution ID: **86**

Type: **not specified**

SPL

Friday, 5 October 2007 16:40 (20 minutes)

Presenter: Mr GAROBY, Roland (CERN)

Session Classification: Session 4 BEAM'07 Summaries

Contribution ID: 87

Type: **not specified**

PS2

Friday, 5 October 2007 17:00 (20 minutes)

Presenter: Dr BENEDIKT, Michael (CERN)

Session Classification: Session 4 BEAM'07 Summaries

Contribution ID: **88**

Type: **not specified**

SPS upgrade

Friday, 5 October 2007 17:20 (20 minutes)

Presenter: Dr ARDUINI, Gianluigi (CERN)

Session Classification: Session 4 BEAM'07 Summaries

Contribution ID: **89**

Type: **not specified**

Adjourn

Friday, 5 October 2007 17:40 (5 minutes)

Presenter: Dr SCANDALE, Walter (CERN)

Session Classification: Session 4 BEAM'07 Summaries

Contribution ID: 90

Type: **not specified**

The Lattice with Imaginary Gamma-transition for the CERN Proton Synchrotron PS2

Thursday, 4 October 2007 16:00 (30 minutes)

Presenter: Dr SENICHEV, Yuri (Forschungszentrum Juelich)

Session Classification: Section 2 PS2

Contribution ID: **91**

Type: **not specified**

Discussion

Thursday, 4 October 2007 12:30 (30 minutes)

Session Classification: Session 1 Superconducting Proton Linac

Contribution ID: 92

Type: **not specified**

Introduction

Contribution ID: 93

Type: **not specified**

Introduction

Wednesday, 3 October 2007 14:30 (10 minutes)

Presenter: Dr SCANDALE, Walter (CERN)

Session Classification: Francesco Ruggiero Memorial Symposium, 3 October