

**Introduction to Accelerator  
Physics, 25 September - 8  
October 2021, Chavannes de  
Bogis, Switzerland**



**Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Registration

*Saturday, 25 September 2021 17:30 (2 hours)*

Contribution ID: 2

Type: **not specified**

## Opening

*Sunday, 26 September 2021 08:30 (1 hour)*

**Presenter:** SCHMICKLER, Hermann (CERN)

Contribution ID: 3

Type: **not specified**

# Electromagnetic Theory I

*Sunday, 26 September 2021 09:45 (1 hour)*

**Presenter:** SHREYBER, Irina (NRC "Kurchatov Institute" (ITEP) (RU))

Contribution ID: 4

Type: **not specified**

## History of particle acceleration

*Sunday, 26 September 2021 11:15 (1 hour)*

**Presenter:** SHEEHY, Suzie (University of Oxford and University of Melbourne)

Contribution ID: 5

Type: **not specified**

## Coffee

*Sunday, 26 September 2021 10:45 (30 minutes)*

Contribution ID: 6

Type: **not specified**

## Lunch

*Sunday, 26 September 2021 12:15 (1h 30m)*

Contribution ID: 7

Type: **not specified**

## Electromagnetic Theory II

*Sunday, 26 September 2021 13:45 (1 hour)*

**Presenter:** SHREYBER, Irina (NRC "Kurchatov Institute" (ITEP) (RU))



Contribution ID: 8

Type: **not specified**

## Accelerator Applications

*Sunday, 26 September 2021 15:00 (1 hour)*

**Presenter:** SHEEHY, Suzie (University of Oxford and University of Melbourne)

Contribution ID: 9

Type: **not specified**

## Coffee

*Sunday, 26 September 2021 16:00 (30 minutes)*

Contribution ID: **10**

Type: **not specified**

## **Kinematics of Particle Beams - Relativity**

*Sunday, 26 September 2021 16:30 (1 hour)*

**Presenter:** GIANFELICE-WENDT, Eliana

Contribution ID: **11**

Type: **not specified**

## **1 slide 1 minute**

*Sunday, 26 September 2021 17:30 (1 hour)*

Contribution ID: 12

Type: **not specified**

## Welcome reception

*Sunday, 26 September 2021 18:30 (1 hour)*

Contribution ID: 13

Type: **not specified**

# Transverse Linear Beam Dynamics I

*Monday, 27 September 2021 08:30 (1 hour)*

**Presenter:** HILLERT, Wolfgang (University of Hamburg)

Contribution ID: 14

Type: **not specified**

## Transverse Linear Beam Dynamics II

*Monday, 27 September 2021 11:15 (1 hour)*

**Presenter:** HILLERT, Wolfgang (University of Hamburg)

Contribution ID: 15

Type: **not specified**

## Coffee

*Monday, 27 September 2021 10:45 (30 minutes)*



Contribution ID: **16**

Type: **not specified**

# Cyclotrons I

*Tuesday, 5 October 2021 15:00 (1 hour)*

**Presenter:** SEIDEL, Mike (PSI)

Contribution ID: 17

Type: **not specified**

## Lunch

*Monday, 27 September 2021 12:15 (1h 30m)*

Contribution ID: **18**

Type: **not specified**

## **Cyclotrons II/FFAs**

*Wednesday, 6 October 2021 08:45 (1 hour)*

**Presenter:** SEIDEL, Mike (PSI)

Contribution ID: **19**

Type: **not specified**

# Linear Accelerators I

*Monday, 27 September 2021 13:45 (1 hour)*

**Presenter:** ALESINI, David

Contribution ID: **20**

Type: **not specified**

## **Coffee**

*Monday, 27 September 2021 16:00 (30 minutes)*

Contribution ID: 21

Type: **not specified**

# Longitudinal BD in Circular Machines I

*Monday, 27 September 2021 16:30 (1 hour)*

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

Contribution ID: 22

Type: **not specified**

## Linear Accelerators II

*Monday, 27 September 2021 17:30 (1 hour)*

**Presenter:** ALESINI, David

Contribution ID: 23

Type: **not specified**

## **Longitudinal BD in Circular Machines II**

*Tuesday, 28 September 2021 08:30 (1 hour)*

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



Contribution ID: 24

Type: **not specified**

## Transverse Linear Beam Dynamics III

*Tuesday, 28 September 2021 09:45 (1 hour)*

**Presenter:** HILLERT, Wolfgang (University of Hamburg)

Contribution ID: 25

Type: **not specified**

## Coffee

*Tuesday, 28 September 2021 10:45 (30 minutes)*

Contribution ID: 26

Type: **not specified**

## **Warm Magnets / power converters**

*Tuesday, 28 September 2021 11:15 (1 hour)*

**Presenter:** DE RIJK, Gijs (CERN)

Contribution ID: 27

Type: **not specified**

## Lunch

*Tuesday, 28 September 2021 12:15 (1h 30m)*

Contribution ID: 28

Type: **not specified**

## Transverse Linear Beam Dynamics IV

*Tuesday, 28 September 2021 13:45 (1 hour)*

**Presenter:** HILLERT, Wolfgang (University of Hamburg)

Contribution ID: 29

Type: **not specified**

## Vacuum

*Wednesday, 6 October 2021 11:15 (1 hour)*

**Presenter:** SEIDEL, Mike (PSI)

Contribution ID: **30**

Type: **not specified**

## **Coffee**

*Tuesday, 28 September 2021 16:00 (30 minutes)*

Contribution ID: **31**

Type: **not specified**

# Computational tools I

*Tuesday, 28 September 2021 16:30 (1 hour)*

**Presenter:** LATINA, Andrea (CERN)



Contribution ID: 32

Type: **not specified**

# Hands-ON Lattice calculations I

*Tuesday, 28 September 2021 17:30 (1 hour)*

**Presenter:** STERBINI, Guido (CERN)

Contribution ID: 33

Type: **not specified**

## Hands-ON Lattice calculations II

*Tuesday, 28 September 2021 18:30 (1 hour)*

**Presenter:** STERBINI, Guido (CERN)

Contribution ID: 34

Type: **not specified**

## Superconducting Magnets

*Tuesday, 28 September 2021 15:00 (1 hour)*

**Presenter:** DE RIJK, Gijs (CERN)

Contribution ID: 35

Type: **not specified**

# Transverse Linear Beam Dynamics V

*Wednesday, 29 September 2021 09:45 (1 hour)*

**Presenter:** HILLERT, Wolfgang (University of Hamburg)

Contribution ID: **36**

Type: **not specified**

## Coffee

*Wednesday, 29 September 2021 10:45 (30 minutes)*

Contribution ID: 37

Type: **not specified**

# Time and Frequency domain signals I

*Monday, 27 September 2021 09:45 (1 hour)*

**Presenter:** SCHMICKLER, Hermann (CERN)

Contribution ID: **38**

Type: **not specified**

## Lunch

*Wednesday, 29 September 2021 12:15 (1h 30m)*

Contribution ID: 39

Type: **not specified**

## **Time and Frequency domain signals II**

*Monday, 27 September 2021 15:00 (1 hour)*

**Presenter:** SCHMICKLER, Hermann (CERN)



Contribution ID: 40

Type: **not specified**

## **Advanced accelerator concepts I**

*Wednesday, 29 September 2021 13:45 (1 hour)*

**Presenter:** FERRARIO, massimo (INFN-LNF)

Contribution ID: 41

Type: **not specified**

## Coffee

*Wednesday, 29 September 2021 16:00 (30 minutes)*

Contribution ID: 42

Type: **not specified**

## I Computational tools II

*Wednesday, 29 September 2021 16:30 (1 hour)*

**Presenter:** LATINA, Andrea (CERN)

Contribution ID: 43

Type: **not specified**

## **Advanced accelerator concepts II**

*Wednesday, 29 September 2021 17:30 (1 hour)*

**Presenter:** FERRARIO, massimo (INFN-LNF)

Contribution ID: 44

Type: **not specified**

## Discussion session

*Wednesday, 29 September 2021 18:30 (1 hour)*

Contribution ID: 45

Type: **not specified**

## Lunch

*Thursday, 30 September 2021 12:15 (1h 30m)*

Contribution ID: 46

Type: **not specified**

# Linear Imperfections I

*Wednesday, 29 September 2021 15:00 (1 hour)*

**Presenter:** ZIEMANN, Volker (Uppsala University (SE))

Contribution ID: 47

Type: **not specified**

## Linear Imperfections II

*Thursday, 30 September 2021 15:00 (1 hour)*

**Presenter:** ZIEMANN, Volker (Uppsala University (SE))



Contribution ID: 48

Type: **not specified**

## Coffee

*Thursday, 30 September 2021 16:00 (30 minutes)*

Contribution ID: 49

Type: **not specified**

## Hands-ON Lattice calculations III

*Thursday, 30 September 2021 16:30 (1 hour)*

**Presenter:** STERBINI, Guido (CERN)

Contribution ID: 50

Type: **not specified**

## **Hands-ON Lattice calculations IV**

*Thursday, 30 September 2021 17:30 (1 hour)*

**Presenter:** STERBINI, Guido (CERN)

Contribution ID: 51

Type: **not specified**

## Collective Effects I

*Friday, 1 October 2021 08:30 (1 hour)*

**Presenter:** LI, Kevin Shing Bruce (CERN)

Contribution ID: 52

Type: **not specified**

## Collective Effects II

*Friday, 1 October 2021 09:45 (1 hour)*

**Presenter:** LI, Kevin Shing Bruce (CERN)

Contribution ID: 53

Type: **not specified**

## Sources

*Friday, 1 October 2021 11:15 (1 hour)*

**Presenters:** FAIRCLOTH, Dan (STFC); KNIE, Klaus

Contribution ID: 54

Type: **not specified**

## Coffee

*Friday, 1 October 2021 10:45 (30 minutes)*

Contribution ID: 55

Type: **not specified**

## Secondary beams and targets

*Friday, 1 October 2021 15:00 (1 hour)*

**Presenter:** KNIE, Klaus



Contribution ID: 56

Type: **not specified**

## Coffee

*Friday, 1 October 2021 16:00 (30 minutes)*

Contribution ID: 57

Type: **not specified**

## Hands-ON Lattice calculations V

*Friday, 1 October 2021 16:30 (1 hour)*

**Presenter:** STERBINI, Guido (CERN)

Contribution ID: 58

Type: **not specified**

## Hands-ON Lattice calculations VI

*Friday, 1 October 2021 17:30 (1 hour)*

**Presenter:** STERBINI, Guido (CERN)

Contribution ID: 59

Type: **not specified**

## Lunch

*Friday, 1 October 2021 12:15 (1h 30m)*

Contribution ID: **60**

Type: **not specified**

## **Linear Imperfections - corrections**

*Friday, 1 October 2021 13:45 (1 hour)*

**Presenter:** ZIEMANN, Volker (Uppsala University (SE))

Contribution ID: **61**

Type: **not specified**

## Excursion

*Saturday, 2 October 2021 08:30 (11 hours)*

Contribution ID: **62**

Type: **not specified**

## **Dinner at Hotel**

*Saturday, 25 September 2021 19:30 (1h 30m)*

Contribution ID: **63**

Type: **not specified**

## **Dinner at Hotel**

*Sunday, 26 September 2021 19:30 (1h 30m)*



Contribution ID: **64**

Type: **not specified**

## **Dinner at Hotel**

*Monday, 27 September 2021 19:30 (1h 30m)*

Contribution ID: 65

Type: **not specified**

## Dinner at Hotel

*Tuesday, 28 September 2021 19:30 (1h 30m)*

Contribution ID: **66**

Type: **not specified**

## **Dinner at Hotel**

*Wednesday, 29 September 2021 19:30 (1h 30m)*

Contribution ID: 67

Type: **not specified**

## Dinner at Hotel

*Thursday, 30 September 2021 19:30 (1h 30m)*

Contribution ID: **68**

Type: **not specified**

## **Dinner at Hotel**

*Friday, 1 October 2021 19:30 (1h 30m)*

Contribution ID: **69**

Type: **not specified**

## **Dinner at Hotel**

*Saturday, 2 October 2021 19:30 (1h 30m)*

Contribution ID: 70

Type: **not specified**

## Collective Effects III

*Sunday, 3 October 2021 08:30 (1 hour)*

**Presenter:** LI, Kevin Shing Bruce (CERN)

Contribution ID: 71

Type: **not specified**

## Collective Effects IV

*Sunday, 3 October 2021 09:45 (1 hour)*

**Presenter:** LI, Kevin Shing Bruce (CERN)



Contribution ID: 72

Type: **not specified**

## Coffee

*Sunday, 3 October 2021 10:45 (30 minutes)*

Contribution ID: 73

Type: **not specified**

## Discussion collective effects

*Sunday, 3 October 2021 11:15 (1 hour)*

**Presenter:** LI, Kevin Shing Bruce (CERN)

Contribution ID: 74

Type: **not specified**

## Lunch

*Sunday, 3 October 2021 12:15 (1h 30m)*

Contribution ID: 75

Type: **not specified**

## RF systems I

*Sunday, 3 October 2021 13:45 (1 hour)*

**Presenter:** DAMERAU, Heiko (CERN)

Contribution ID: 76

Type: **not specified**

## **Hands-ON calculations (longitudinal) - Intro**

*Sunday, 3 October 2021 15:00 (1 hour)*

**Presenters:** LASHEEN, Alexandre (CERN); DAMERAU, Heiko (CERN); ALBRIGHT, Simon (CERN)

Contribution ID: 77

Type: **not specified**

## Coffee

*Sunday, 3 October 2021 16:00 (30 minutes)*

Contribution ID: 78

Type: **not specified**

## **Hands-ON calculations (longitudinal) - I**

*Sunday, 3 October 2021 16:30 (1 hour)*

**Presenters:** LASHEEN, Alexandre (CERN); DAMERAU, Heiko (CERN); ALBRIGHT, Simon (CERN)

Contribution ID: 79

Type: **not specified**

## **Hands-ON calculations (longitudinal) - II**

*Sunday, 3 October 2021 17:30 (1 hour)*

**Presenters:** LASHEEN, Alexandre (CERN); DAMERAU, Heiko (CERN); ALBRIGHT, Simon (CERN)



Contribution ID: **80**

Type: **not specified**

## **Dinner at Hotel**

*Sunday, 3 October 2021 19:30 (1h 30m)*

Contribution ID: **81**

Type: **not specified**

# Electron Beam Dynamics I

*Monday, 4 October 2021 08:30 (1 hour)*

**Presenter:** RIVKIN, Lenny (Paul Scherrer Institute (CH))

Contribution ID: **82**

Type: **not specified**

## **Electron Beam Dynamics II**

*Monday, 4 October 2021 09:45 (1 hour)*

**Presenter:** RIVKIN, Lenny (Paul Scherrer Institute (CH))

Contribution ID: **83**

Type: **not specified**

## Coffee

*Monday, 4 October 2021 10:45 (30 minutes)*

Contribution ID: **84**

Type: **not specified**

## **Discussion electron beam dynamics**

*Monday, 4 October 2021 11:15 (1 hour)*

**Presenter:** RIVKIN, Lenny (Paul Scherrer Institute (CH))

Contribution ID: **85**

Type: **not specified**

## Lunch

*Monday, 4 October 2021 12:15 (1h 30m)*

Contribution ID: **86**

Type: **not specified**

## **RF systems II**

*Monday, 4 October 2021 13:45 (1 hour)*

**Presenter:** DAMERAU, Heiko (CERN)

Contribution ID: 87

Type: **not specified**

# Introduction to Non- Linear longitudinal Beam Dynamics

*Monday, 4 October 2021 15:00 (1 hour)*

**Presenter:** DAMERAU, Heiko (CERN)



Contribution ID: **88**

Type: **not specified**

## Coffee

*Monday, 4 October 2021 16:00 (30 minutes)*

Contribution ID: **89**

Type: **not specified**

## **Hands-ON calculations (longitudinal) - III**

*Monday, 4 October 2021 16:30 (1 hour)*

**Presenters:** LASHEEN, Alexandre (CERN); DAMERAU, Heiko (CERN); ALBRIGHT, Simon (CERN)

Contribution ID: **90**

Type: **not specified**

## **Hands-ON calculations (longitudinal) - IV**

*Monday, 4 October 2021 17:30 (1 hour)*

**Presenters:** LASHEEN, Alexandre (CERN); DAMERAU, Heiko (CERN); ALBRIGHT, Simon (CERN)

Contribution ID: **91**

Type: **not specified**

## **Dinner at Hotel**

*Monday, 4 October 2021 19:30 (1h 30m)*

Contribution ID: 92

Type: **not specified**

## Cinema event

*Monday, 4 October 2021 21:00 (2 hours)*

Contribution ID: 93

Type: **not specified**

## Lunch

*Tuesday, 5 October 2021 12:15 (1h 30m)*

Contribution ID: 94

Type: **not specified**

## Colliders and luminosity

*Tuesday, 5 October 2021 13:45 (1 hour)*

**Presenter:** SCHMICKLER, Hermann (CERN)

Contribution ID: 95

Type: **not specified**

## Beam Instrumentation

*Wednesday, 29 September 2021 08:30 (1 hour)*

**Presenter:** FORCK, Peter (GSI)



Contribution ID: **96**

Type: **not specified**

## Coffee

*Tuesday, 5 October 2021 16:00 (30 minutes)*

Contribution ID: 97

Type: **not specified**

## Q&A/study time I

*Tuesday, 5 October 2021 16:30 (2 hours)*

Contribution ID: **98**

Type: **not specified**

## Poster session

*Tuesday, 5 October 2021 18:30 (1 hour)*

Contribution ID: 99

Type: **not specified**

## Dinner at Hotel

*Tuesday, 5 October 2021 19:30 (1h 30m)*

Contribution ID: **100**

Type: **not specified**

## **Machine & People Protection Issues**

*Thursday, 30 September 2021 13:45 (1 hour)*

**Presenter:** FORCK, Peter (GSI)

Contribution ID: **101**

Type: **not specified**

# **A first taste of Non-Linear Beam Dynamics I**

*Wednesday, 6 October 2021 09:45 (1 hour)*

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

Contribution ID: **102**

Type: **not specified**

## Coffee

*Wednesday, 6 October 2021 10:45 (30 minutes)*

Contribution ID: **103**

Type: **not specified**

## **Beam Diagnostics**

*Wednesday, 29 September 2021 11:15 (1 hour)*

**Presenter:** FORCK, Peter (GSI)



Contribution ID: **104**

Type: **not specified**

## Lunch

*Wednesday, 6 October 2021 12:15 (1h 30m)*

Contribution ID: **105**

Type: **not specified**

## **A first taste of Non- Linear Beam Dynamics II**

*Wednesday, 6 October 2021 13:45 (1 hour)*

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

Contribution ID: **106**

Type: **not specified**

# Particle motion in Hamiltonian Formalism I

*Wednesday, 6 October 2021 15:00 (1 hour)*

**Presenter:** PAPAPHILIPPOU, Yannis (CERN)

Contribution ID: **107**

Type: **not specified**

## Coffee

*Wednesday, 6 October 2021 16:00 (30 minutes)*

Contribution ID: **108**

Type: **not specified**

## **Q&A/study time II**

*Wednesday, 6 October 2021 16:30 (2 hours)*

Contribution ID: **109**

Type: **not specified**

**\*\*Seminar\*\***

*Wednesday, 6 October 2021 18:30 (1 hour)*

Contribution ID: **110**

Type: **not specified**

## **Dinner at Hotel**

*Wednesday, 6 October 2021 19:30 (1h 30m)*

Contribution ID: **111**

Type: **not specified**

## **Injection and Extraction**

*Thursday, 7 October 2021 08:30 (1 hour)*

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



Contribution ID: 112

Type: **not specified**

## Particle motion in Hamiltonian Formalism II

*Thursday, 7 October 2021 09:45 (1 hour)*

**Presenter:** PAPAPHILIPPOU, Yannis (CERN)

Contribution ID: **113**

Type: **not specified**

## Coffee

*Thursday, 7 October 2021 10:45 (30 minutes)*

Contribution ID: **114**

Type: **not specified**

# **Synchrotron light circular machines and free-electron lasers I**

*Thursday, 7 October 2021 11:15 (1 hour)*

**Presenter:** PRAT COSTA, Eduard (PSI - Paul Scherrer Institute)

Contribution ID: **115**

Type: **not specified**

## Lunch

*Thursday, 7 October 2021 12:15 (1h 30m)*

Contribution ID: **116**

Type: **not specified**

## **Synchrotron light circular machines and free-electron lasers II**

*Thursday, 7 October 2021 13:45 (1 hour)*

**Presenter:** PRAT COSTA, Eduard (PSI - Paul Scherrer Institute)

Contribution ID: **117**

Type: **not specified**

## **Designing a synchrotron - a real life example**

*Thursday, 7 October 2021 15:00 (1 hour)*

**Presenter:** PAPAPHILIPPOU, Yannis (CERN)

Contribution ID: **118**

Type: **not specified**

## Coffee

*Thursday, 7 October 2021 16:00 (30 minutes)*

Contribution ID: **119**

Type: **not specified**

## Closing

*Thursday, 7 October 2021 16:30 (1 hour)*

**Presenter:** SCHMICKLER, Hermann (CERN)



Contribution ID: **120**

Type: **not specified**

## **Banquet**

*Thursday, 7 October 2021 17:30 (1h 30m)*

Contribution ID: **121**

Type: **not specified**

## **Hands-ON calculations (longitudinal) -V**

*Monday, 4 October 2021 18:30 (1 hour)*

**Presenters:** LASHEEN, Alexandre (CERN); DAMERAU, Heiko (CERN); ALBRIGHT, Simon (CERN)