

CHART Workshop 2023



Swiss Accelerator
Research and
Technology

Report of Contributions

Contribution ID: 6

Type: **not specified**

MagAM

Wednesday, October 11, 2023 11:00 AM (15 minutes)

Additive Manufacturing for Structural Components in Superconducting Coils

Primary author: SCHÜPBACH, Aurel (pd|z ETH Zürich)

Presenter: SCHÜPBACH, Aurel (pd|z ETH Zürich)

Session Classification: Session 1

Contribution ID: 7

Type: **not specified**

MagDev1 / MagDev2

Wednesday, October 11, 2023 11:15 AM (15 minutes)

Superconducting Accelerator Magnet R&D at PSI

Primary author: AUCHMANN, Bernhard (PSI / CERN)

Presenter: AUCHMANN, Bernhard (PSI / CERN)

Session Classification: Session 1

Contribution ID: 8

Type: **not specified**

MagNum

Sustainable and Consistent Integrated Modelling of
Superconducting Magnets

Primary author: MACIEJEWSKI, Michal (ETH Zurich)

Co-author: Dr SMAJIC , Jasmin (ETHZ)

Presenter: MACIEJEWSKI, Michal (ETH Zurich)

Session Classification: Session 1

Contribution ID: 9

Type: **not specified**

MagRes

Wednesday, October 11, 2023 11:45 AM (15 minutes)

Development of optimized resin systems for SC magnet coil production

Primary author: STUDER, Pascal (ETHZ)

Co-author: TERVOORT, Theo A. (ETHZ)

Presenter: STUDER, Pascal (ETHZ)

Session Classification: Session 1

Contribution ID: **10**

Type: **not specified**

WireChar

Wednesday, October 11, 2023 2:00 PM (15 minutes)

Multiphysical characterization of Nb₃Sn wires and of REBCO coated conductors

Primary author: SENATORE, Carmine (UniGE)

Presenter: SENATORE, Carmine (UniGE)

Session Classification: Session 2

Contribution ID: **11**

Type: **not specified**

WireDev

Wednesday, October 11, 2023 1:45 PM (15 minutes)

Development of recipes and methods for the fabrication of Nb₃Sn multifilamentary wires with enhanced current carrying capabilities

Primary author: BOVONE, Gianmarco (UniGe)

Co-author: SENATORE, Carmine (UniGE)

Presenter: BOVONE, Gianmarco (UniGe)

Session Classification: Session 2

Contribution ID: 12

Type: **not specified**

FCC-hh / LHC Lumi

Wednesday, October 11, 2023 3:15 PM (15 minutes)

Luminosity Precision Measurements for Hadron Colliders

Primary authors: WANCZYK, Joanna (EPFL); WANSZYK, Joanna (CERN)

Co-author: PIELONI, Tatiana (LPAP EPFL)

Presenter: WANCZYK, Joanna (EPFL)

Session Classification: Session 3

Contribution ID: 13

Type: **not specified**

FCCee-Beam Dynamics Simulations

Wednesday, October 11, 2023 3:30 PM (15 minutes)

Accelerator design and simulation framework for FCC-ee: optics and collective effects

Primary author: VAN RIESEN-HAUPT, Léon (EPFL)

Co-author: PIELONI, Tatiana (LPAP EPFL)

Presenter: VAN RIESEN-HAUPT, Léon (EPFL)

Session Classification: Session 3

Contribution ID: 14

Type: **not specified**

FCChh Stability

Wednesday, October 11, 2023 3:45 PM (15 minutes)

Long term coherent stability and diffusion studies for the Future Circular Hadron Colliders

Primary author: SABATO, Luca (EPFL)

Co-author: PIELONI, Tatiana (LPAP EPFL)

Presenter: SABATO, Luca (EPFL)

Session Classification: Session 3

Contribution ID: 15

Type: **not specified**

FCCee Injector

Wednesday, October 11, 2023 2:30 PM (15 minutes)

FCCee pre-injector baseline and the P³ experiments at PSI

Primary author: SCHAER, Mattia (PSI)

Co-author: CRAIEVICH, Paolo (PSI)

Presenter: SCHAER, Mattia (PSI)

Session Classification: Session 2

Contribution ID: 16

Type: **not specified**

FCC Geodesy

Wednesday, October 11, 2023 2:15 PM (15 minutes)

Advances in high-precision gravity field determination, geodetic reference frames and geodetic infrastructure for the FCC region

Primary author: SOJA, Benedikt (ETHZ)

Co-author: WIESER, Andreas (ETHZ)

Presenter: SOJA, Benedikt (ETHZ)

Session Classification: Session 2

Contribution ID: 17

Type: **not specified**

FCC Geology 3D Model

Development of a high-resolution 3D geological model and associated GIS-based subsurface data set for the FCC tunnelling work

Primary author: Prof. MOSCARELLO, Andrea (Università de Genova)

Presenter: Prof. MOSCARELLO, Andrea (Università de Genova)

Session Classification: Session 2

Contribution ID: **18**

Type: **not specified**

HTS Bulk Undulator

Wednesday, October 11, 2023 10:45 AM (15 minutes)

REBCO Bulk/Tape-Stack SC Undulator

Primary author: CALVI, Marco (PSI)

Presenter: CALVI, Marco (PSI)

Session Classification: Session 1

Contribution ID: **19**

Type: **not specified**

Welcome and introduction

Wednesday, October 11, 2023 10:30 AM (15 minutes)

Primary author: OTT, Hans Rudolf (ETHZ)

Presenter: OTT, Hans Rudolf (ETHZ)

Contribution ID: 20

Type: **not specified**

Closing word

Wednesday, October 11, 2023 4:45 PM (15 minutes)

Primary author: OTT, Hans Rudolf (ETHZ)

Presenter: OTT, Hans Rudolf (ETHZ)

Contribution ID: 21

Type: **not specified**

MagComp

Wednesday, October 11, 2023 11:30 AM (15 minutes)

Mechanical Modelling and Failure Identification of Impregnated Nb3Sn Rutherford cable stacks

Primary author: KONG, Xiang (ETHZ)

Co-author: TERVOORT, Theo A. (ETH Zurich)

Presenter: KONG, Xiang (ETHZ)

Session Classification: Session 1

Contribution ID: 22

Type: **not specified**

FCCee CPES

Wednesday, October 11, 2023 12:15 PM (15 minutes)

Cryogenic Power Supply for HTS Magnets

Presenter: HUBER, Jonas (ETHZ)

Session Classification: Session 1

Contribution ID: 23

Type: **not specified**

FCCee HTS4

Wednesday, October 11, 2023 12:00 PM (15 minutes)

FCC-ee High-Temperature-Superconducting Short Straight Section

Presenter: KORATZINOS, Michael (PSI / CERN)

Session Classification: Session 1

Contribution ID: 24

Type: **not specified**

Muon Colliders Feasibility Studies

Wednesday, October 11, 2023 4:15 PM (15 minutes)

Muon Collider Feasibility Studies: Collective effects and muon cooling

Presenter: PIELONI, Tatiana (LPAP EPFL)

Session Classification: Session 3

Contribution ID: 25

Type: **not specified**

FCC-ee SPIN-POL

Wednesday, October 11, 2023 4:00 PM (15 minutes)

FCC-ee spin tracking and polarization studies

Presenter: PIELONI, Tatiana (LPAP EPFL)

Session Classification: Session 3

Contribution ID: 26

Type: **not specified**

FCCee Lumi

Wednesday, October 11, 2023 4:30 PM (15 minutes)

Optimizing FCC-ee Luminosity

Presenter: ZIMMERMANN, Frank (CERN)

Session Classification: Session 3