

SUPERCONDUCTIVITY AND SUPERCONDUCTING MAGNETS

Parallel session D2

6th October 2022/ 14:30-16:00

Albéniz room (floor -2)

Chair: Fredrik Engelman

SUPERCONDUCTIVITY AND SUPERCONDUCTING MAGNETS

- **Andrzej Siemko, CERN:** “Introduction to applications of Superconductivity and Superconducting Magnets in Big Science”
- **Sara Casalbuon, XFEL:** “Overview of tenders in the area of SCU development from European XFEL”
- **Christian Roux, FAIR:** “Superconducting Magnets for FAIR”
- **Andrzej Siemko, CERN:** "Shaping a new generation of high field magnets for future accelerators at CERN"

Andrzej Siemko
Applied physicist
CERN



- Andrzej received his M.Sc. in Solid State Physics from Warsaw University of Technology, Poland in 1984
- In 1984-1992 he worked at the Institute of Physics of the Polish Academy of Sciences where he received his PhD in Physics
- Since 1992, he has been working at the European Organization for Nuclear Research, CERN, where he is currently the Deputy Head of the Technology Department
- He also leads CERN's High Field Accelerator Magnet R&D Programme

Sara Casalbuoni
Physicist
European XFEL



- Sara received her PhD from the University of Bern in 2000
- From 2000 she worked at the University of Hamburg on Nb superconducting radiofrequency cavities and at DESY on electron bunch diagnostics
- From 2005 to 2019 she worked at the Karlsruhe Institute of Technology (KIT). At KIT she led the development of superconducting undulators, which are now commercially available from the industrial partner participating in the development program, Bilfinger Noell GmbH
- Since 2019 she is group leader Undulator Systems at European XFEL

Christian Roux
Physicist
FAIR



- Christian studied physics at University Konstanz and University Heidelberg, Germany
- Did his PhD on high-precision mass spectrometry at Max Planck Institute for Nuclear Physics, Heidelberg, Germany
- Joined the department of superconducting (SC) magnets at GSI Helmholtzzentrum für Schwerionenforschung GmbH, Darmstadt, Germany, in 2014
- Became department head of SC magnets in 2017 and coordinator of the production of SC quadrupole modules for SIS100 in 2018

