FRIDAY, SEPTEMBER 15, 2023

FRIDAY MORNING SESSION

ORAL SESSION #1A FOCUS SESSION ON NANOENGINEERED SUPERCONDUCTORS (CONFERENCE HALL "LONDON" & in ZOOM)

8:30 – 9:00AM Invited Talk 73 (Session Chair – Dobrovolskiy)

Prof. Vladimir M. Fomin, Leibniz Institute for Solid State and Materials Research (IFW) Dresden, Germany

Superconductor 3D Nanoarchitectures: Properties due to Complex Geometry and Nontrivial Topology (ID #592)

9:00 – 9:30AM Invited Talk 74 (Session Chair – Dobrovolskiy)

Dr. Rosa Córdoba, University of Valencia, Spain

Nanofabrication of Curvilinear and 3D Superconducting Architectures (ID #575)

9:30 – 9:45AM Contributed Talk 94 (Session Chair – Dobrovolskiy)

Axel Johan Marie Deenen, Arnaud Emile S. Nizet, Dirk Grundler / Time-Dependent Ginzburg-Landau Simulations of Curved 3D Nanoarchitectures (ID #727)

9:45 – 10:00AM Contributed Talk 95 (Session Chair – Dobrovolskiy)

Barbora Budinská, Volodymyr Bevz, Mikhail Mikhailov, Sebastian Lamb-Camarena, Stanislava Shpilinska, Andrii Chumak, Michal Urbanek, Markus Arndt, Wolfgang Lang, Oleksandr Dobrovolskiy / Vortex Counting and Velocimetry for Slitted Superconducting Thin Strips (ID #670)

10:00 – 10:30AM Invited Talk 72 (Session Chair – Dobrovolskiy)

Prof. Haifeng Ding, Nanjing University, China

Coherent Picture on Pure Spin Current Transport Between Ag/Bi and Ferromagnet (ID #908) (in Zoom)

10:30 – 11:00AM Coffee break (Conference room "Rome")

11:00 – 11:30AM Invited Talk 75 (Session Chair – Dobrovolskiy)

Dr. Mariia Sidorova, *Nanyang Technological University, Singapore*Mariia Sidorova, Sebastian Raupach, Alexei Semenov
Size Effects and Excess Noise in Superconducting Nanowire Single-Photon Detectors (ID #577)

11:30 – Noon Invited Talk 76 (Session Chair – Dobrovolskiy)

Dr. Mikhail Silaev, *Tampere University*, *Finland*Ultrastrong Magnon-Photon Coupling and Entanglement in Superconductor/Ferromagnet Nanostructures (ID #721)

Noon – 12:15PM *Contributed Talk 96 (Session Chair – Dobrovolskiy)*

Sandra Keppert, Bernd Aichner, Wolfgang Lang, Johannes Pedarnig David / Bi₂Sr₂CaCu₂O₈ Thin Film Fabrication for Nanostructuring to Investigate Vortex Dynamics (ID #638)

12:15 – 12:30PM Contributed Talk 97 (Session Chair – Dobrovolskiy)

Dr. Bernd Aichner, Max Karrer, Katja Wurster, Lucas Backmeister, Philipp Alexander Korner, Barbora Budinská, Oleksandr Dobrovolskiy, Reinhold Kleiner, Edward Goldobin, Dieter Koelle, Wolfgang Lang / Non-destructive Nanostructuring: Using a Focused Helium Ion Beam to Change the Properties of Cuprate Superconductors (ID #655)

12:30 – 2:00PM Lunch break (at your own expense)

2:00 – 2:30PM IEEE NAP-2023 AWARDS & CONFERENCE CLOSING CEREMONY IEEE NAP-2024 ANNOUNCEMENT (Session Chair – Cambel)