

Name	Organisation	Abstract title	Code
Wednesday			
Robert Romanofsky	NASA Glenn Research Center	Superconducting Sensors for Microwave and Optical Photon-Starved Communications	Wed-PI-01
Wed-01			
1. SQUIDs, SQIFs and SQUID Applications			
Dag Winkler	Chalmers University of Technology	High-Tc SQUIDs for biomedical applications	Wed-01-02
Shane Keenan	CSIRO	Operation of HTS SQIF arrays on a cryo-cooler	Wed-01-01
Bob Fagaly	Honeywell, Inc	Applications of Biomagnetism	Wed-01-03
Paul Sowman	Macquarie University	Using SQUIDs to conduct functional brain imaging in pre-school children	Wed-01-03
Sobhan Sepehri	Chalmers University of Technology	Ultra-Sensitive Magnetic Bioassay Using a High-TC SQUID Gradiometer	Wed-01-04
saburo tanaka	Toyohashi University of Technology	Nanoparticle Imaging by MPI Technique	Wed-01-05
Michael Paulsen	PTB Berlin	Development of a Beta Spectrometry Setup using Metallic Magnetic Calorimeters	Wed-01-06
Wed-02			
8. Other Novel Devices and Applications			
Michael Stuiber	University of Melbourne	Possible Proximity Effect in a Nanoscale-size Superconductor – Semiconductor Ring Device	Wed-02-01
Juan Trastoy	Unite Mixte de Physique CNRS/Thales	Towards tunable high-TC Josephson junctions	Wed-02-02
Antony Jones	University of Wollongong and CSIRO Manufacturing	Ratchet Effect in Superconductors for Novel Devices	Wed-02-04
Vijaya Srinivasu Vallabhapurapu	University of South Africa, Johannesburg, South Africa	Low Field Tunable Microwave Absortion in Iron Pnictides	Wed-02-05
Dimitrios Georgakopoulos	National Measurement Institute	Ac voltage measurement and harmonic analysis based on a Josephson Arbitrary Waveform Synthesizer	Wed-02-06
Wed-03			
3. Superconductor Device Fabrication/Processing/Scale-up			
Daniel Creedon	University of Melbourne	Irradiation induced modification of superconductivity in boron doped diamond	Wed-03-01
Martin Cyster	RMIT University	Simulation of Al/AlOx/Al Josephson junction fabrication with iterative molecular dynamics	Wed-03-02
zhi li	UNIVERSITY OF WOLLONGONG	High-Temperature Superconductivity in Atomically Thin FeSe Films	Wed-03-03
Wenbin Qiu	Institute for Superconducting and Electronic Materials, University of Wollongong	Interface Structure of FeSe Thin Film on CaF₂ Substrate and the Influence on the Superconducting Performance	Wed-03-04
Wendy Purches	CSIRO	The scale up of high temperature YBCO step edge Josephson junctions	Wed-03-05
Antonio D'Addabbo	Istituto Nazionale di Fisica Nucleare (INFN)	An active noise cancellation technique for Pulse Tube cryo-coolers	Wed-03-06

<u>Name</u>	<u>Organisation</u>	<u>Abstract title</u>	<u>Code</u>
Thursday			
Robert Hadfield	University of Glasgow	Infrared single-photon detection with superconducting nanowires	Th-PI-02
Th-01			
7. Quantum Information Processing and Quantum Engineering			
Jan Herrmann	National Measurement Institute		Th-01-01 (invite)
Tim Duty	University of New South Wales	Quantum physics in one dimension and the fate of the dual Josephson effect	Th-01-02 (invite)
Jared Cole	RMIT University	Electron transport inside Josephson junctions: moving beyond the cartoon picture of barrier tunnelling	Th-01-03
Arkady Fedorov	University of Queensland	Using superconducting circuits to probe quantum randomness	Th-01-04
Shuichi Nagasawa	National Institute of Advanced Industrial Science and Technology (AIST)	Fabrication process for Nb-based quantum annealing devices	Th-01-05
Th-02			
2. Superconductor Photon Detectors, e.g. SSPD, TES, STJ			
Lixing You	Shanghai Institute of Microsystem and Information Technology (SIMIT), Chinese Academy of Sciences (CAS)	Progress on SNSPDs at CENSE, CAS	Th-02-01 (invite)
Yong-Hamb Kim		tba	Th-02-02 (invite)
Flavio Gatti	University of Genova	Development and characterization of single photon TES detectors for investigating rare decay in the UV band	Th-02-03
Xiaolong Hu	Tianjin University	Two mechanisms of device timing jitter of superconducting nanowire single-photon detectors	Th-02-04
Masataka Ohkubo	AIST	Superconductor detectors overcoming the limits in conventional analytical instruments	Th-02-05
Th-03			
4. Superconductor Electronics for Microwave, THz and Communications			
Huabing Wang	Nanjing University	High temperature superconducting terahertz emitters and detectors	Th-03-01 (invite)
Jia Du	CSIRO	Recent progress of developing HTS high-frequency sensors and detectors for wireless communications and sensing applications in CSIRO	Th-03-02 (invite)
Xiang Gao	CSIRO	Novel Antenna-Coupled HTS Josephson THz Mixer of High Conversion Gain and Low Noise	Th-03-03
Eldad Holdengreber	Ariel University	THz Spatial Spectral Illumination Radar Scanning Method Based on HTSC JJs Detection	Th-03-04

Name	Organisation	Abstract title	Code
Alexander Zorin	Physikalisch-Technische Bundesanstalt, Braunschweig, Germany	Microwave quantum circuits based on non centrosymmetric Josephson metamaterial	Th-03-05
Ting Zhang	University of Technology Sydney	A Ka-band HTS MMIC Josephson Mixer with High Conversion Efficiency	Th-03-06
Friday			
Fri-O1			
2. Superconductor Photon Detectors, e.g. SSPD, TES, STJ			
Hiroyuki Shibata	Kitami Institute of Technology	Superconducting nanostrip photon detector using various materials	Fri-O1-02 (invite)
Jian Chen	Nanjing University (NJU)	Progress in superconducting high-frequency detectors at RISE, NJU	Fri-O1-01 (invite)
Go Fujii	National Institute of Advanced Industrial Science and Technology	Fabrication of 4096-pixel superconducting-tunnel-junction array X-ray detectors toward high throughput SEM-EDS analyses	Fri-O1-03
Biaobing Jin	Nanjing University	Polarization-Sensitive/Insensitive and high efficient Superconducting Nanowire Single Photon detector	Fri-O1-04
masahiro ukibe	AIST	Superconducting-Tunnel-Junction array detector for characteristic X-ray of lithium	Fri-O1-05
BIN WEI	Tsinghua University, Beijing, 100084, China	Development of HTS Wide-band Bandpass Filters in Ku-band and Low-band	Fri-O1-06
Liang Sun	Institute of Physics, Chinese Academy of Sciences	Applications of high temperature superconducting (HTS) filters and subsystems in China	Fri-O1-07
Fri-O2			
1. SQUIDs, SQIFs and SQUID Applications			
Emma Mitchell	CSIRO	Effect of array geometry on SQIF sensitivity	Fri-O2-02 (invite)
Ronny Stolz		tba	Fri-O2-01 (invite)
Victor Kornev	Moscow State University	Bi-SQUID tradeoff analysis	Fri-O2-03
Ruben van Staden	Stellenbosch University	SQIF Circuit Simulator	Fri-O2-04
Colin Pegrum	University of Strathclyde	A full inductive extraction model and Josephson simulation of small SQIFs and arrays	Fri-O2-05
NIKHIL KUMAR	IIT KANPUR	Controlling Hysteresis in Superconducting Weak Links and Nano-Superconducting Quantum Interference Devices	Fri-O2-06