AGENDA (version 5)

EURAMET TC-EM SC DCQM

Expert Meeting on DC and Quantum Metrology

Date: 2 – 3 June, 2021
On-line meeting arranged by EURAMET

Wednesday, 2 June (times in UTC)

08:00 – 08:15	Welcome, Confirmation of the agenda	
08:15 – 09:30	EURAMET - Some news from EURAMET TC-EM - EMPIR projects of SC DCQM - EURAMET projects of SC DCQM - Calibration guides etc.	Antti Manninen
09:30 – 10:00	EMN-Q Status Report	Hansjörg Scherer
10:00 – 11:30	***Break***	
11:30 – 11:50	Linking DC voltage scale up to 1000 V to quantum standards	Ilya Budovsky
11:50 – 12:20	Overview on Josephson based applications	Ralf Behr
12.20 – 12:50	Progress on PTB's 4TP impedance bridge within the GIQS project	Stephan Bauer
12:50 – 13:00	***Break***	
13:00 – 13:20	High frequency voltage errors and applications of the Josephson arbitrary waveform synthesizer	Marco Kraus
13:20 – 13:40	EMPIR Parawave project - microwave measurement systems for metrological characterization of Josephson travelling wave parametric amplifiers	Jonathan Williams
13:40 – 14:00	Driving a low critical current Josephson junction array with a mode-locked laser	Jaani Nissilä
14:00 – 14:20	Realizing a Phase Standard Based on Pulse-Driven Josephson Arrays	Stephan Bauer
14:20 – 14:40	Open source quantum traceability for AC power standards	Helge Malmbekk
14:40 –	Possibility for further discussions	All

Thursday, 3 June (times in UTC)

08:00 – 10:00	EURAMET - CCEM and BIPM comparisons - Strategic planning of EURAMET comparisons - EURAMET follow-up of CCEM-K2.2012 - Proposals for other comparisons - Discussion about the next SC DC&QM convener - Next meetings of EURAMET TC-EM SC DCQM - Other topics	Antti Manninen
10:00 – 11:30	***Break***	
11:30 – 11:50	Graphene-based Hall devices for electrical quantum resistance metrology	Mattias Kruskopf
11:50 – 12:20	Investigation of the QHE in low and high-mobility h-BN encapsulated graphene	Wilfrid Poirier
12:20 – 12:40	Improvements of the programmable quantum current generator for better traceability of electrical current measurements	Sophie Djordjevic
12:40 – 13:00	Quantum e-leaps (Toward new era of quantum electrical measurements through phase slips)	Antti Kemppinen
13:00 – 13:20	SEQUOIA - Single-electron quantum optics for metrology	Frank Hohls
13:20 –	Possibility for further discussions	All