

Göran Wendin
2005-09-21

SQUBIT-2/RSFQubit/EuroSQIP Workshop 12-14 October 2005, Karlsruhe

Program (version 2005-09-20)

Wednesday 12 October: RSFQubit presentations and discussion

8:30 - 8:45 Getting together

8:45-9.00 Anna Kidiyarova-Shevchenko. Welcome

9:00 Dr. Shinichi Yorozu, ISTECH, Japan

10:00 Dr. Quentin Herr, Northrop Grumman, USA

11:00 -11:10 Coffe break

Group presentations (25 min, incl discussion)

11:10 Alexander Zorin/ Marat Khabipov, PTB

11:35 Anna Kidiyarova-Shevchenko, Chalmers University of Technology

12:00-13:00 Lunch at the Mensa

13:00 Alexander Savin , Helsinki University of Technology

13:25 Panu Helisto, VTT

13:50 Alexander Kemp, University of Erlangen

14:15 Denis Vion, CEA Saclay

14:40 Chris Wilson, Chalmers University

15:05 - 15:30 Coffe break

15:30 Fabio Chiarello, CNR Rome

15:55 Evgeni Il'ichev, IPHT

16:20 Andreas Käck, Chalmers University

16:45 Frank Wilhelm, LMU, Munich (EuroSQIP)

17:10 Olivier Buisson, Grenoble (EuroSQIP)

17:35 CNRS-Toulouse(EuroSQIP)

17:50 UNIBASEL (EuroSQIP)

18:15 End of session

19.00 Dinner at the Gastdozentenhaus

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Thursday 13 October: SQUBIT-2 presentations of project work

The SQUBIT-2 presentations below are to be focused on the specific Tasks of the groups, describing the status and results and identifying successes and problems. Looking at the Deliverables for 2005 (see Friday program), it is clear that the issue is coupled qubits, including qubit-oscillator coupling and readout via oscillators. Note however, that the main issue is OPERATION AND MEASUREMENT OF COUPLED QUBITS.

8:30-10:30 SQUBIT-2 presentations

8:30 Chalmers, exp

9:00 Saclay

9:30 TU Delft

10:00 PTB

10:30 Coffe break and discussions

11:00-12:30 SQUBIT-2 presentations

11:00 HUT

11:30 JyU

12:00 KTH

12:30 Lunch at the Mensa

14:00-15:30 SQUBIT-2 presentations

14:00 UNIKARL

14:30 SNS

15:00 Chalmers, theory

15:30 Coffe break

16:00-16:40 EuroSQIP presentations

16:00 INN, Innsbruck

16:20 IPHT, Jena

16:40 Departure for the Museum tour

17:45 Museum tour

Buffet dinner at the Museum after the tour.

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Friday 14 October: Formulation of SQUBIT-2 deliverables D15-D20 and reports. Formulation of most urgent research tasks for the remaining 3.5 months.

Based on the previous SQUBIT-2 presentations and chaired by the WP leaders, we will go through the 2005 SQUBIT-2 final Deliverables D15-D20. This will be a very serious matter and discussion. RSFQubit and EuroSQIP participants are invited to participate. We will in practice be critically evaluating the platform for the EuroSQIP work starting 1 November 2005. We will outline/formulate the content of the Deliverables . We will also firmly establish the most urgent research tasks for the remaining 3.5 months.

09:00 D16 Report on the fabrication of first circuits with three coupled qubits (WP1)
Chair: PTB, Sasha Zorin

09:30 D17 First experiments on 3-qubit time evolution with one- and two-qubit single shot readout (WP2-3)
Chair: Daniel Esteve

10:00 Coffe break

10:30 D15 Report on measurements of margins and errors in universal gate operations on two-qubit circuits (WP3)
Chair: Gerd Schön

11:30 D18 Report on the lay-out for a complete quantum computer (WP4)
Chair: Hans Mooij

12:00 D19 Critical assessment of the potential of superconducting circuits for quantum computation (WP4)
Chair: Göran Wendin

12:30 Lunch at the Mensa

14:00 SQUBIT-2 business meeting; remaining issues.
D20 Final report on the SQUBIT-2 project (WP5)
Annual Report; Review Report; e-TIP (Technical Implementation Plan)