



9th FLUXONICS RSFQ design workshop

Engineering single-flux-quantum microelectronics

University Savoie Mont Blanc - Chambéry - France - 27 rue Marcoz - Amphitheater "Decottignies"



Preliminary agenda

September 10, 2015 | Thursday

- Arrival / check-in and social event

September 11 2015 | Friday

8:30 Opening of the workshop

8:45 Basics and physics of Rapid Single-Flux Quantum digital logic

9:15 The FLUXONICS Foundry

9:45 Overview of the design of RSFQ circuits: from simulations to layout

10:15 Coffee break

10:45 Design of RSFQ circuits with low-voltage supply

11:15 Inductance extraction of RSFQ circuits with Inductex

11:45 VHDL programming for complex RSFQ circuits

12:15 Lunch break at ...

14:00 eSFQ versus RSFQ circuits: advantages and properties

14:30 SFQ readout of a flux qubit

15:00 Canonical quantization of the Josephson effect and its modifications due to presence of large capacitance energy

15:30 Coffee break

16:00 Practicals to simulate, design and layout basic RSFQ circuits (cell library, softwares and to RSFQ file package will be made available to participants before workshop)

19:00

20:00 Dinner at ...

