Collaborative student training in Quantum Information Processing
Overview

Quantum information processing
Computing at the (sub-) atomic scale
Transformative implications for information technology

Young area of research
Research groups forming worldwide
Training primarily at the graduate level

Multi-disciplinary, multi-faceted
Physics, Mathematics, Computer Science
Theory, Experiment
Overview...

Existing connections
Scientific collaboration, student exchange
France-Canada grant

Project motivation
Provide students access to outside expertise
Develop standardized courses

Primary mechanism
Student internship and courses abroad
Faculty exchange
Project partners

Ashwin Nayak
Waterloo (Canadian leader)

Frédéric Magniez
Paris (EU leader)

Barry Sanders
Calgary

Gerd Leuchs
Erlangen

Raymond Laflamme
Waterloo

Norbert Lutkenhaus
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Iordanis Kerenidis
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Christine Silberhorn
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