QIPC projects in FP5 and FP6

6th Framework Programme

- Integrated Projects
  - EuroSQIP – European Superconducting Quantum Information Processor
  - QAP – Qubit Applications
  - SCALA – Scalable Quantum Computing with Light and Atoms

- STREPs
  - COVAQIAL - Continuous Variable Quantum Information with Atoms and Light
  - QUELE - Quantum Computing with Trapped Electrons
  - RSFQUBIT - RSFQ Control of Josephson Junctions Qubits
  - OLAQUI - Optical lattices and quantum information
  - ACDET - Acoustoelectronic single photon detector
  - MICROTRAP - Development of pan-European micro-trap technology capability for trapped ion quantum information science
  - QICS - Foundational Structures of Quantum Information and Computation
  - EQUIND - Engineered Quantum Information in Nanostructured Diamond

5th Framework Programme

- ACQP - Atom Chip Quantum Processor
- ACQUIRE - Atomics Chips for Quantum Information Research
- ATESIT - Active Teleportation and Entangled State Information Technology
- CECQDM - Control of the electronic coupling in quantum dot molecules
- EDIQIP - Effects of Decoherence and Imperfections for Quantum Information Processing
- EQUIP - Entanglement in Quantum Information Processing and Communication
• **EQUIS** - Enabling Technologies for Quantum Information Systems
  ::Project fact sheet:: - ::Project website::

• **ESQUIRE** - Experimental realisation of quantum gates and development of scalable of quantum computer schemes in rare-earth-ion-doped inorganic crystals
  ::Project fact sheet:: - ::Project website::

• **ESRQC** - Electron Spin Resonance Quantum Computing
  ::Project fact sheet:: - ::Project website::

• **MAGQIP** - Magnetic Systems as Candidates for Quantum Computing Hardware
  ::Project fact sheet:: - ::Project website::

• **NSP-SI** - Electrical Detection of nuclear spin polarization in Si/SiGe heterostructures as the first step to the Nuclear Spin Quantum Computer
  ::Project fact sheet:: - ::Project website::

• **PROSECCO** - Protocols for Secure Computations
  ::Project fact sheet:: - ::Project website::

• **Q-ACTA** - Quantum Computation: novel algorithms and their man-body implementation
  ::Project fact sheet:: - ::Project website::

• **QAIP** - Quantum Algorithms and Information Processing
  ::Project fact sheet:: - ::Project website::

• **QGATES** - Quantum Gates and Elementary Scalable Processor Using Deterministically Addressed Atoms
  ::Project fact sheet:: - ::Project website::

• **QIPD-DF** - Study for the construction of a Quantum Information Processing device using Doped Fullerenes
  ::Project fact sheet:: - ::Project website::

• **QIPPDF-ROSES** - A study for the construction of a Quantum Information Processing Device using Doped Fullerenes and with the Readout of Single Electron Spin
  ::Project fact sheet:: - ::Project website::

• **QUANTIM** - Quantum Images
  ::Project fact sheet:: - ::Project website::

• **QUBITS** - Quantum Based Information Processing and Transfer Using Single Atoms and Photons
  ::Project fact sheet:: - ::Project website::

• **QUCOMM** - Long Distance Photonic Quantum Communication
  ::Project fact sheet:: - ::Project website::

• **QUELE** - Quantum Computing with Trapped Electrons
  ::Project fact sheet:: - ::Project website::

• **QUICOV** - Quantum information with continuous variables
  ::Project fact sheet:: - ::Project website::

• **UPRODIS** - Quantum Properties of Distributed Systems
  ::Project fact sheet:: - ::Project website::

• **RAMBOQ** - Probabilistic Gates Making Binary Optical Quanta
  ::Project fact sheet:: - ::Project website::

• **REQC HARDWARE** - Development of quantum computer hardware based on rare-earth-ion-doped inorganic crystals
  ::Project fact sheet:: - ::Project website::

• **RESQ** - Resources for Quantum Information
  ::Project fact sheet:: - ::Project website::

• **S4P** - Solid State Resources for Single Photons
  ::Project fact sheet:: - ::Project website::

• **SAWPHOTON** - Single electron source generating individual photons for secure optical communications
  ::Project fact sheet:: - ::Project website::

• **SIQUIP** - Silicon Quantum Information Processing
  ::Project fact sheet:: - ::Project website::

• **SQID** - Semiconductor based implementation of quantum information devices
  ::Project fact sheet:: - ::Project website::

• **SQUBIT** - Superconducting Qubits: Quantum computing with Josephson Junctions
  ::Project fact sheet:: - ::Project website::

• **SQUBIT-2** - Superconducting Qubits: Quantum Computing with Josephson Junctions
TOPQUIP - Topological Quantum Information Processing

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