Quantum Information Theory

Lecturer
Stefano PIRONIO (Coordinator)

Course mnemonic
PHYS-F509

ECTS credits
5 credits

Language(s) of instruction
English and French

Course period
First term

Campus
Plaine

Course content

Quantum computers and algorithms, quantum communications, quantum cryptography.

Objectives (and/or specific learning outcomes)

Initiation to quantum information.

Pre-requisits and co-requisits

Required knowledge and skills

Quantum mechanics, Dirac notation.

Teaching method and learning activities

black board course

References, bibliography and recommended reading

Quantum Computation and Quantum Information Nielsen and Chuang

Lecture Notes of Preskill http://www.theory.caltech.edu/~preskill/ph229/

Other information

Place(s) of teaching

Plaine

Contact(s)

S. Pironio (stefano.pironio@ulb.be)

Evaluation method(s)

Oral examination and Oral presentation

Main language(s) of evaluation

English and French

Programmes

Programmes proposing this course at the faculty of Sciences

MA-PHYS | Master in Physics | finalité Research/unit 1 and finalité Teaching/unit 1