

Introductory Course on Quantum Information

7-11 July 2014 — Innsbruck

including a colloquium of the Innsbruck-Vienna
SFB "Foundations and Applications of Quantum Science", 10-11 July 2014

Organizers: Martí Cuquet, Ben Lanyon, Adi Makmal (Universität Innsbruck / IQOQI)
Secretary: Nicole Jorda (sp-physik@uibk.ac.at)

Scope of the Course

The short course on 07-10 July 2014 will give a basic introduction into the fascinating research field of **quantum information**, which offers many exciting research opportunities for young researchers. The course is **addressed to students early in their master program** and does not require any special knowledge on the field besides basic knowledge of quantum physics and atomic, molecular, and optical physics.

Program

Fourteen lectures given by experts from Innsbruck, Vienna and abroad will cover the main topics such as basic concepts of quantum information and implementations of quantum information processing in various systems. In addition, students will be given the opportunity to **visit state-of-the-art laboratories** at the University of Innsbruck and the Institute of Quantum Optics and Quantum Information (IQOQI). The school will start with the registration and a get-together on the evening of Monday, July the 7th.

On July the 10th, participants of the course are invited to attend a colloquium where current, ongoing (SFB) research will be presented. There will be a joint social event in the evening of the 10th. The colloquium will end on the 11th.

Participants

In addition to students from the three member universities of the SFB (University of Innsbruck, University of Vienna, and University of Technology, Vienna), **we invite external students to participate**. We will be able to sponsor the participation of about 20 external students, covering their local expenses and supporting their travel.

Application

Application forms can be downloaded at <http://sp-physik.uibk.ac.at>.

Contact and application: Ms. Jorda, sp-physik@uibk.ac.at

Application deadline: 30 May 2014

