**Introductory Course on Quantum Information**

**Innsbruck, 07-11 July 2014, including a colloquium of the Innsbruck-Vienna SFB “Foundations and Applications of Quantum Science (FoQuS)”**

Organizers:  
Martí Cuquet (Univ. Innsbruck), Ben Lanyon, Adi Makmal (IQOQI, Univ. Innsbruck), and Innsbruck Physics Research Center

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**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 7’th.

On July the 10’th, 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 the evening of the 10’th. The colloquium will end on the 11’th.

**Participants**

In addition to students from the three member universities of the SFB (Univ. Innsbruck, Univ. Vienna, and Univ. 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**

Please fill in the attached form and return it to us ([sp-physik@uibk.ac.at](mailto:sp-physik@uibk.ac.at)) before the application deadline of **30 May 2014**. Applications will be notified on their acceptance no later than 15 June 2014.