



# Trento - Innsbruck Quantum Information Tour

A complete guide for the event

**AISF Trento**

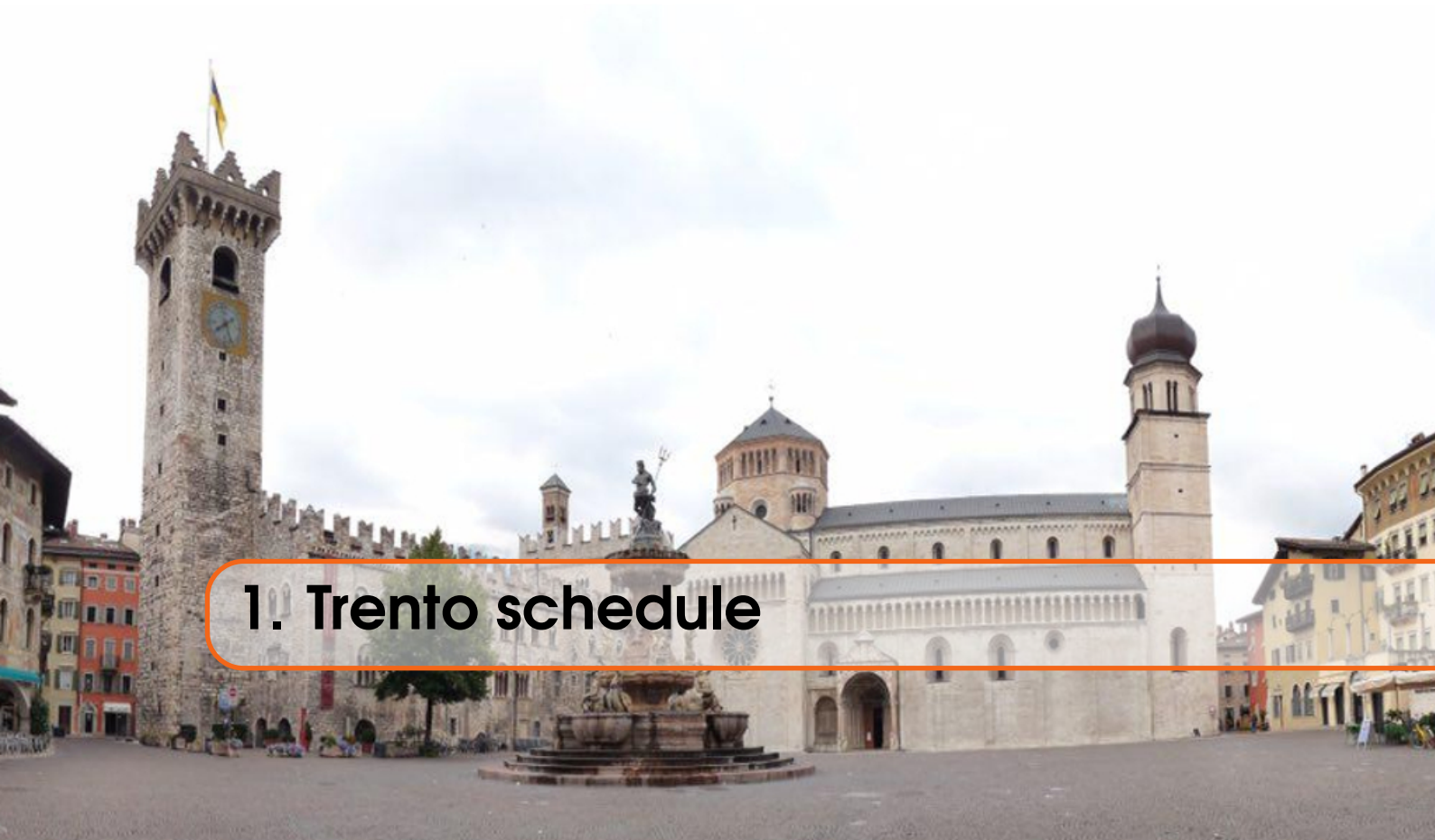




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# 1. Trento schedule

The following is a listing and brief description of all talks taking place in Trento.

## 1.1 BEC

- **Quantum mechanics applied to condensed matter** (11:00 - 11:30)  
*Franco Dalfovo: Full professor at the University of Trento and head of the INO-CNR unit in Trento*
- **Physics of vortices in superfluids** (11:30 - 12:10)  
*Giacomo Lamporesi: CNR researcher at the BEC Center*
- **Topological states of matter in cold atoms** (12:10 - 12:50)  
*Marco Di Liberto: Postdoc at INO-CNR BEC Center and physics department, University of Trento*
- *Catering lunch in the University (12.50-14.00)*

## 1.2 Nanolab

- **Optical Quantum Technologies at UniTN laboratories** (14:00 - 14:30)  
*Lorenzo Pavesi: Physics department director and full professor at Trento*
- **Quantum optics on chips** (14:30 - 15:00)  
*Massimo Borghi: Postdoc fellow*

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- **Fluid light: an analogy with ultracold condensed gases** (15:00 - 15:30)  
*Stefano Biasi and Fabio Turri: PhD students*
  - **Quantum Random Number Generation for Secure Communication and SiQuro movie** (15:30 - 16:00)  
*Zahra Bisardi: PhD student*
  - **Tour of laboratories** (16:00 - 17:20)
  - *Refreshments offered by the Trento Physics Department and orientation* (18:00 - 19.00)
  - *Dinner at Pedavena and free night* (20.30)



## 2. Innsbruck schedule

The following is the timetable of the second day

- **Welcome F. Ferlino** (10:15-10:30)  
*F. Ferlino*
- **Quantum physics with trapped ions** (10:30-11.00)  
*C. Roos*
- **Theory of Quantum Simulation and Computation** (11.00-11.30)  
*W. Lechner*
- **Dipolar quantum physics with ultracold atoms** (12.00-12.30)  
*M. Mark*
- **A tool box of ultracold atoms** (12.30-13.00)  
*B. Huang*
- **Lunch at TechCafè** (13.00-14.30)
- **Lab tour at IQOQI (Part I)** (14.30-16.30)
- **Coffee break** (16.30-17.00)
- **Lab tour at IQOQI (Part II)** (17.00-18.00)
- **A tool box of ultracold atoms** (12.30-13.00)

- **Check in at the Hostel (19.00)**
- **Dinner at Stiftskeller and free night (20.30)**

The following is a programme of the third day

- **Arrival at university (9:00)**
- **Visit to University of Innsbruck (Lab Tour (9:00-13.00))**
- **Pizza lunch with the students of Innsbruck (13.00)**
- **Returning to Trento\* (17:00 - 19.30)**

\*Participants who have other preferences (such as departing on their own from Innsbruck or at an earlier time) please contact the organizing committee personally on the first day of the event or by e-mail in order to clarify their plans.





## 3. How to reach us

### 3.1 Introduction

The first day of the TIQIT event will be held at the Polo Scientifico Tecnologico F. Ferrari (also known as Povo 1) at number 15, Via Sommarive, in classroom A221 and starting at 11:00 on Wednesday March 1<sup>st</sup>. The venue can be reached in several ways:

#### 3.1.1 By bus

City buses that reach the venue depart regularly from the bus stop just outside Trento's central train station. There are two lines you can take:

Line 5\ is the most direct mode of public transport to the venue; its route begins at the stop just outside the train station and takes it to the "Polo Scientifico Tecnologico Fabio Ferrari" stop, which is directly in front of your destination. This is also the last stop the 5\ makes.

Line 5 is slightly less direct but more regular (the 5\ does not run all day!). It also departs from the train station; the closest stop it makes to the venue is named "Povo Facoltà Scienze". To get to the venue from here, head past the roundabout and continue straight ahead along Via Sommarive as shown below. The total transit time for both lines is about 23 minutes. A city bus ticket (which is valid for 70 minutes) costs 1.20 euros and can be bought within the train station, from automatic vendors at the bus stop outside the station, or at many supermarkets or tobacco shops. Bus tickets cannot be purchased on board the bus!

#### 3.1.2 By train

Regional trains departing from Trento's central station with destination Bassano del Grappa or Borgo Valsugana Est stop at the Povo-Mesiano station. From here, the venue can be reached by passing beneath the train tracks using the staircase (to the right when getting

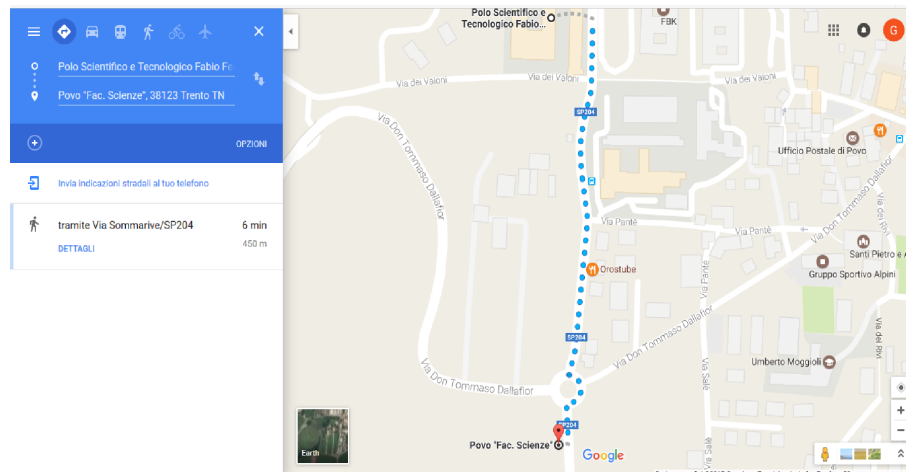


Figure 3.1: walking directions from the bus stop after taking line 5

of the train) and walking up Via Sommarive following the (uphill!) route shown in the image below.

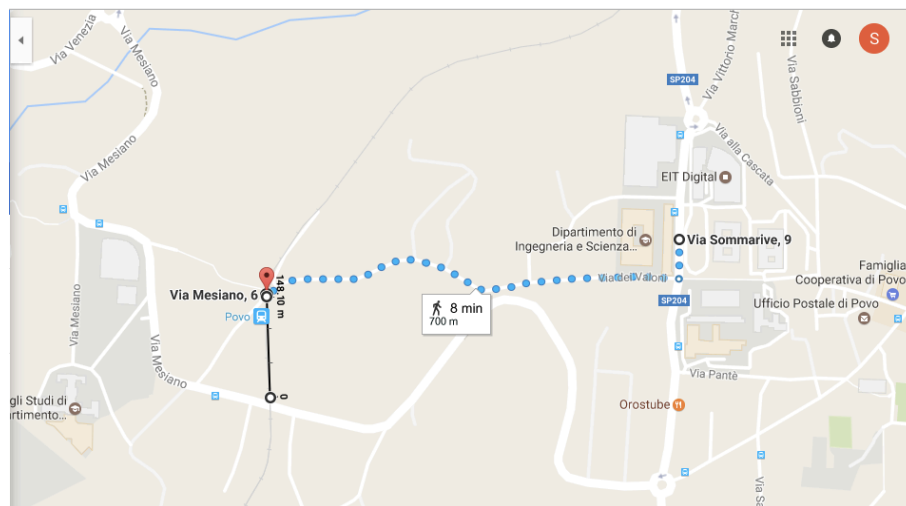


Figure 3.2: Route from the Povo-Mesiano train station to the venue

Trains depart from the central station once an hour at five minutes past the hour and arrive at the Povo-Mesiano station about 16 minutes later. City bus tickets (both single and daily) can be used to ride the train.

## 3.2 Useful links

Trento bus system: <http://www.ttesercizio.it/>

Regional trains: <http://www.ttesercizio.it/Treno/>