

# BeamLine for Schools

## Introduction



# The Program

The full (an official) program of this week can be found at:  
<https://indico.cern.ch/event/403358/>

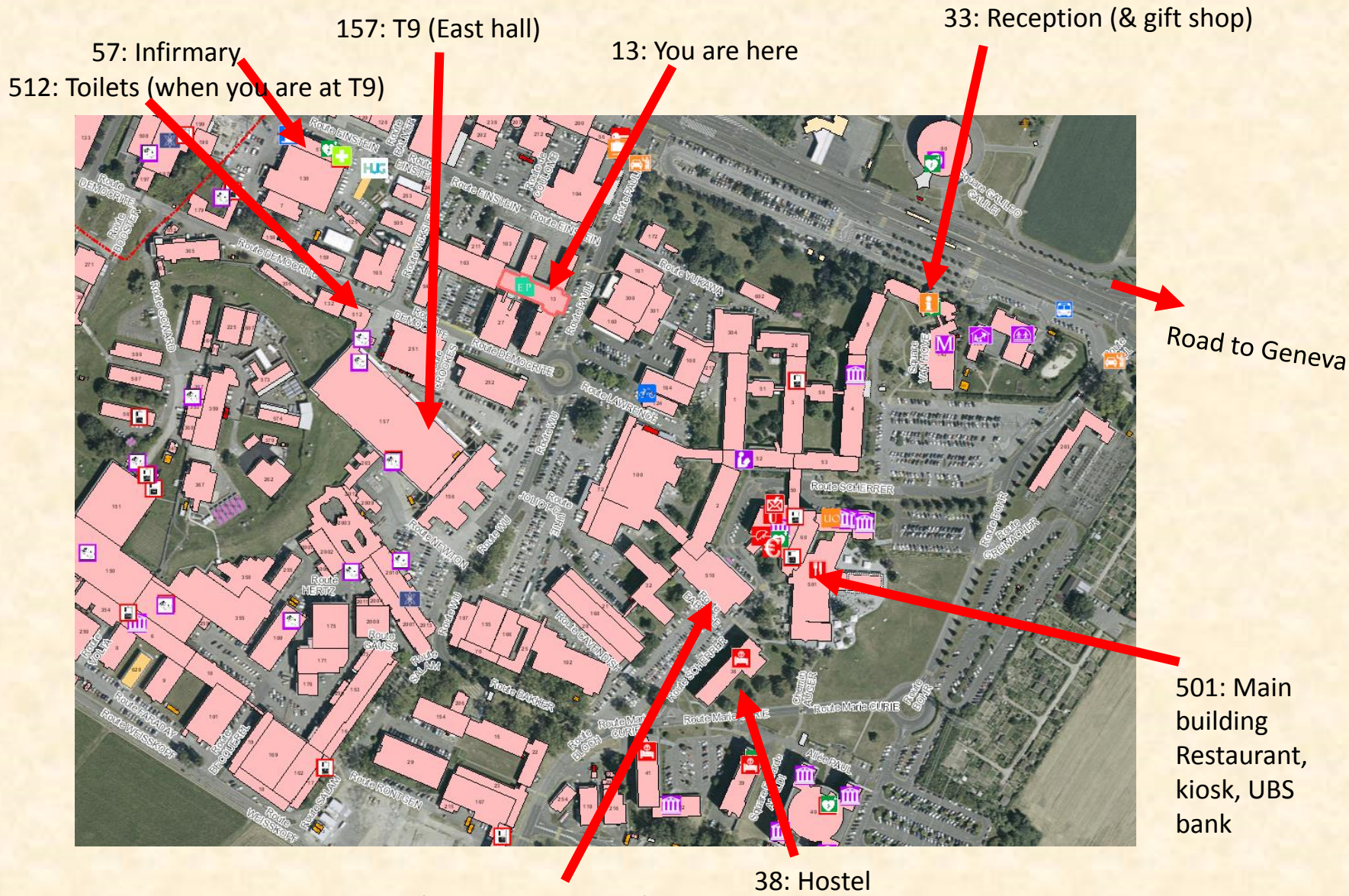
This morning

Time	Item	Speaker
8:45	Welcome & General remarks	Markus Joos
9:00	Presentation of the team from Florence	
9:30	Presentation of the team from Johannesburg	
10:00	Introduction to T9	Lau Gatignon
11:15	Organization of the experiments and shift training	Tim Brooks Candan Dozen
12:30	Lunch (finally...)	

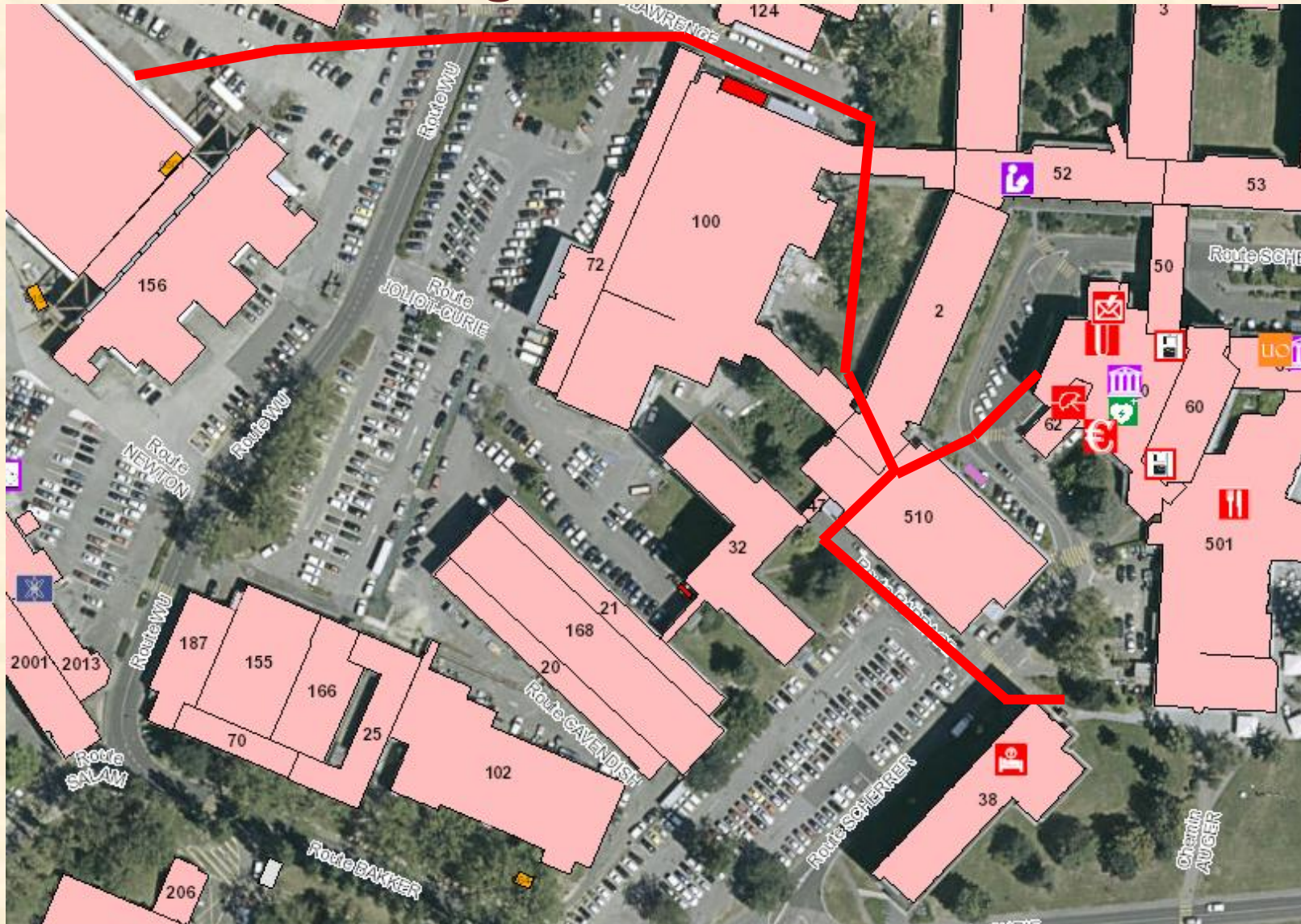
This afternoon

Time	Action
13:45	Meet in the main building (in front of the UBS bank). Then walk (5 min) to the AD hall
14:00 – 15:00	Visit of the Antiproton de-accelerator
15:00	Transport by bus to SM18
15:15 – 16:00	Visit of the cryogenic test facility
16:00	Transport to CMS
16:30 – 17:30	Visit of the CMS service cavern
17:30	Transport to CERN - Meyrin

# Finding your way



# Walking between the sites



# It you need assistance.....

Call one of these numbers from any CERN telephone:

- **Markus**: 160663
- Tim: 167969
- Candan: 167970
- Petya: 71259
- Fire brigade: **74444**

## Please respect these rules:

- Do not smoke inside of buildings
- Do not eat or drink in the hostel rooms
- Act according to the code of conduct

# What you need to know about the hostel

- Eating and drinking in the rooms is not allowed
- Smoking in the rooms is not allowed
- You can use the kitchen and the fridge (just keep it tidy)
- You can use the laundry (you team coach has a card)
- **Check out time** on 20 September: **10:00**
- Valuables should be kept in a locked drawer (there is one in every room)
- You can use the Wifi
  - But you must respect the CERN computing rules

# T9 Beam line @ PS East Area



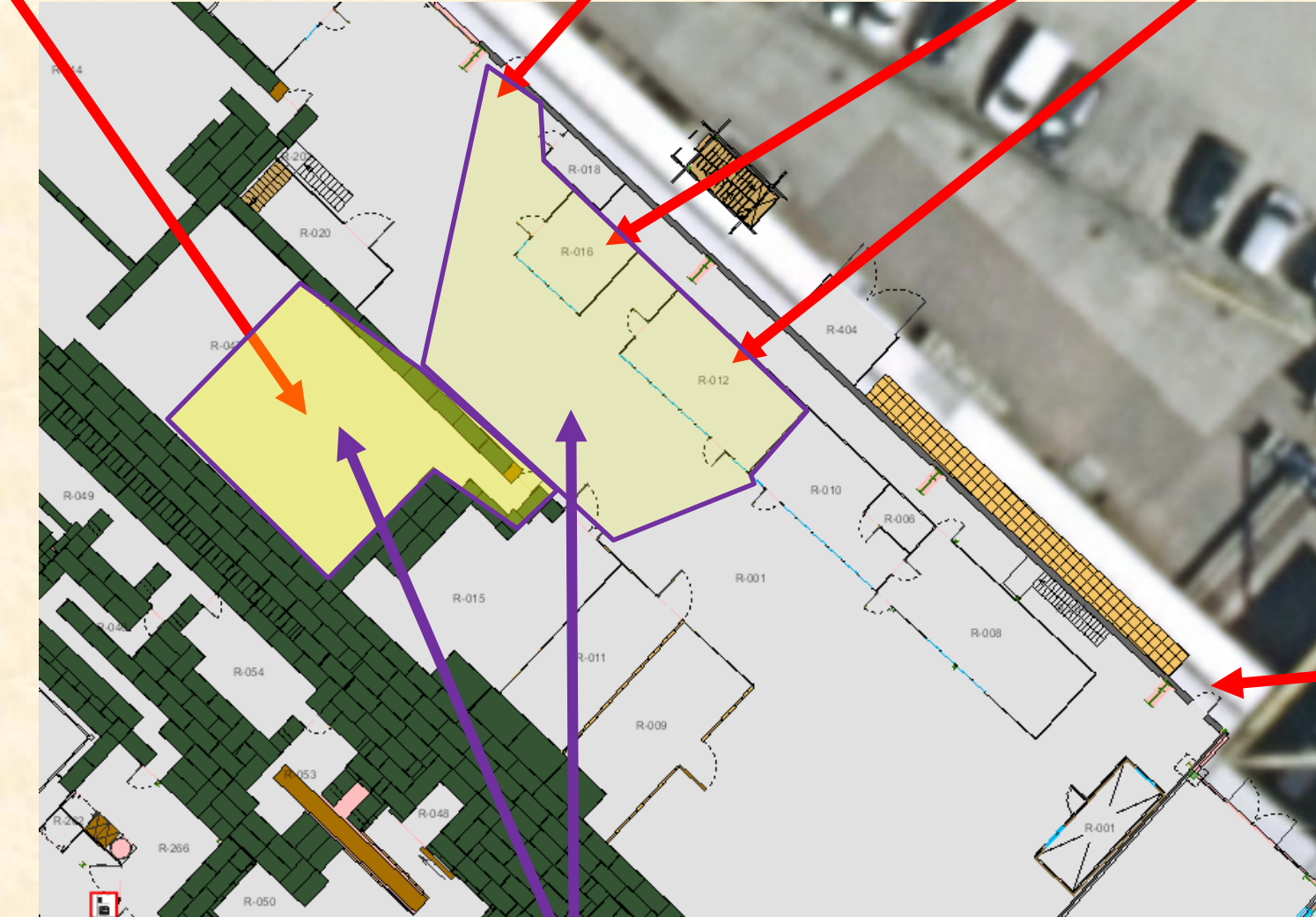
# The experimental area (building 157, East Hall)

Experimental area  
Only accessible when beam is off

Main door

Storage room

Counting room



Emergency door

Stay in these zones



# Safety in the experimental area

You need your **Dosimeter** in order to **open the door** of building 157

- Pass it in front of the reader next to the door

While **inside of building 157** you must wear at any time:

- Your **dosimeter**
- Your **safety shoes**
- Your **helmet** (except when you are in the counting room)

In addition inside of building 157 you must not:

- Consume **food or drinks**
- **Smoke** (...anyway a bad idea)

Additional rules for the **T9 experimental area**:

- **Do not bring or remove any material** to T9 unless authorized
- **Do not touch any equipment** unless authorized
- **Walk carefully!**

You can check your dosimeters at these stations  
(e.g. in the main building)

RF-ID



# While we are taking data (13 – 19 September)

Every day at 9:00 we have a **general meeting** in the room 510-R-2 in order to discuss the plan of the day

For the work in the counting room you will be divided up into **4 teams of shifters** (next slide)

- The shifters should stay in the counting room for the entire shift
  - Tasks: Control the experiment and the check the data quality
- **Times of the shifts:**
  - 9:20 – 12:00
  - 12:00 – 15:00
  - 15:00 – 18:00
  - 18:00 - 21:00
- **If you are not on shift:**
  - You can **analyze data**
    - Team Leo4G: Room 510-R-2
    - Team Accelerating Africa: Room 510-R-10
  - You have **free time**
    - Visit Geneva
    - We will organize some ad-hoc visits at CERN (see Indico page)
    - Have a look at the Microcosm (building 33)

# Shift crews and schedule (13 – 19 September)

Crew	Members
1	Kilbourn Sihoyiya Williamson Bartalesi Giorgetti
2	Mercer Copeland Boshoff Benincasa Piccolo
3	Osato Haffejee Gagliani Lastrucci Roselli
4	MacKenzie Motsoai Marrone Dittli Pacciani Russo

Day	Start time	Crew
Sunday, 13	TDB	TBD
Monday, 14	9:00	1
	12:00	2
	15:00	3
	18:00	4
Tuesday, 15	9:00	2
	12:00	3
	15:00	4
	18:00	1
Wednesday, 16	9:00	3
	12:00	4
	15:00	1
	18:00	2
Thursday, 17	9:00	4
	12:00	3
	15:00	2
	18:00	1
Friday, 18	9:00	1
	12:00	2
	15:00	3
	18:00	4
Saturday, 20	9:00	2
	12:00	3
	15:00	4
	18:00	1

# Going to Geneva

## General remarks about Geneva:

- The population tends to speak **French**....
  - Many people do speak English. Speak slowly!
- Generally speaking Geneva is safe
  - Still be careful, in particular in the **evenings**
  - Even in Geneva we have **pick-pockets**!
- It is not the cheapest city in the world
  - Let's face it: Geneva is **expensive**
- Most touristic attractions are at walking distance from the center

## Transport:

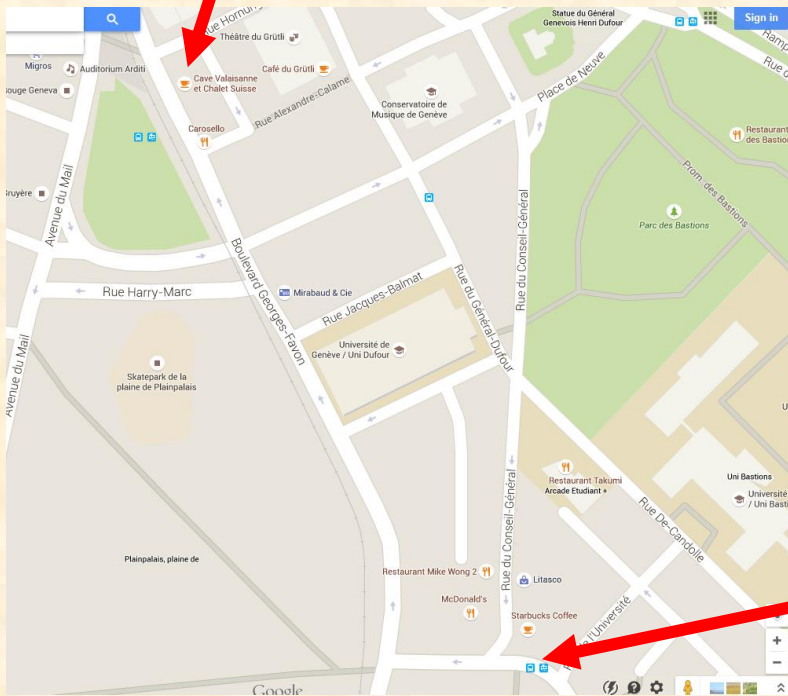
- Take **Tram 18** (stops in front of building 33) and exit at:
  - **Gare Cornavin** (main railway station)
  - **Pleace de Neuve** (city center)
  - **Plainpalais** (for the fondue)
- Duration of the trip: ~**30 minutes**
- Single fare 3 CHF (you need exact change)
  - There is a ticket vending machine at every station
- <http://www.tpg.ch/en/web/site-international>

# The Fondue (Sunday)

If you don't like cheese:  
Let me know today!

Departure from CERN: 18:00 (at the latest)  
Start of the fondue: 19:00

Restaurant Cave Valaisanne  
Boulevard Georges-Favon 23



Tram station  
Plainpalais



# Culture in Geneva

## Free museums

- 1 - Natural history
  - Route de Malagnou 1
  - See a living turtle with two heads
- 2 - Art and history
  - Rue Ch.-Galland 2
  - European painting
  - Greek, Roman & Egyptian culture
- 3 - Maison Tavel
  - Rue due Puits-St-Pierre 6
  - History of Geneva

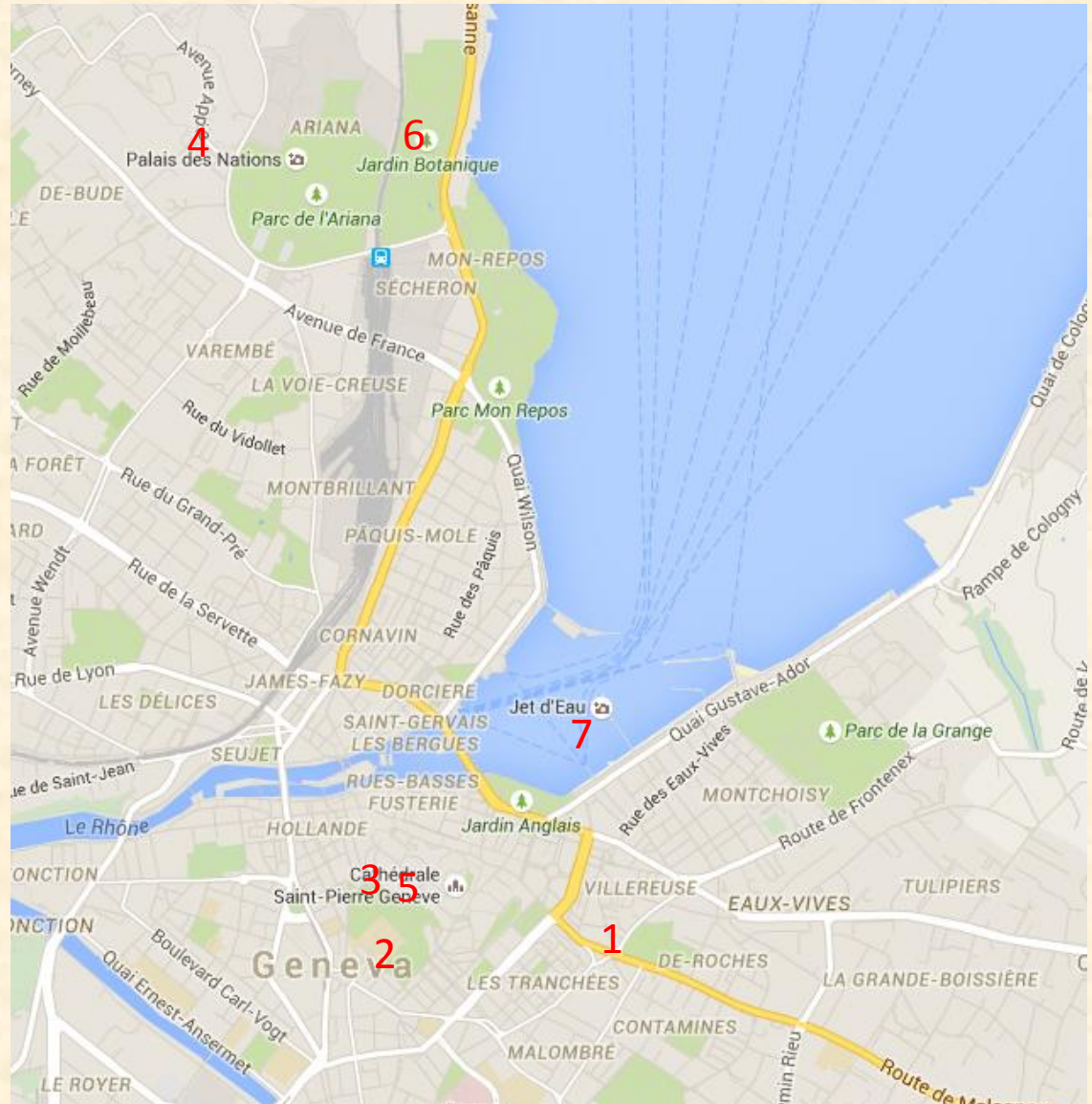
## Museums that are worth the price of the ticket

- 4 - Red cross
  - Av. de la Paix 17
  - CHF 7 (for students)
- 5 - St. Pierre archaeological site
  - Cour Saint-Pierre 6
  - CHF 4 (for students)

## Other free attractions

- 6 - Botanic garden
  - Chambesy 1292
- 7 - Jet d'eau (fountain)

Don't hesitate to ask me about other places in the region

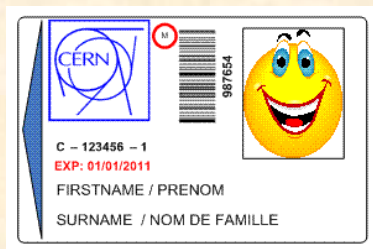


# Your departure

On 20 September:

- **Check out** from the hotel by **10:00** at the latest
  - Your luggage can be stored in the hostel
  - Remove food (if any) from the fridge
- **Return your dosimeter and CERN card to M. Joos**
- You can keep your helmet and safety shoes
- Team coaches: Return the **laundry card**
- In the afternoon we will take you to the airport

## To be returned



# Keep this in mind...

You are a scientist!

BL4S is not over on 20 September

We encourage you to:

- Continue with the analysis of the data that you will collect this week when you are back at your school
- Write a report about your experience at CERN
  - This can be published on the BL4S Web site
- Write a scientific paper about the results of your experiment
  - We will help you publishing it in a scientific journal

....and don't forget to become a physicist or engineer



# Enjoy your stay at CERN



...any questions??