

# Beamline for Schools

## Introduction



# The Program

The full (and official) program of this week can be found at:

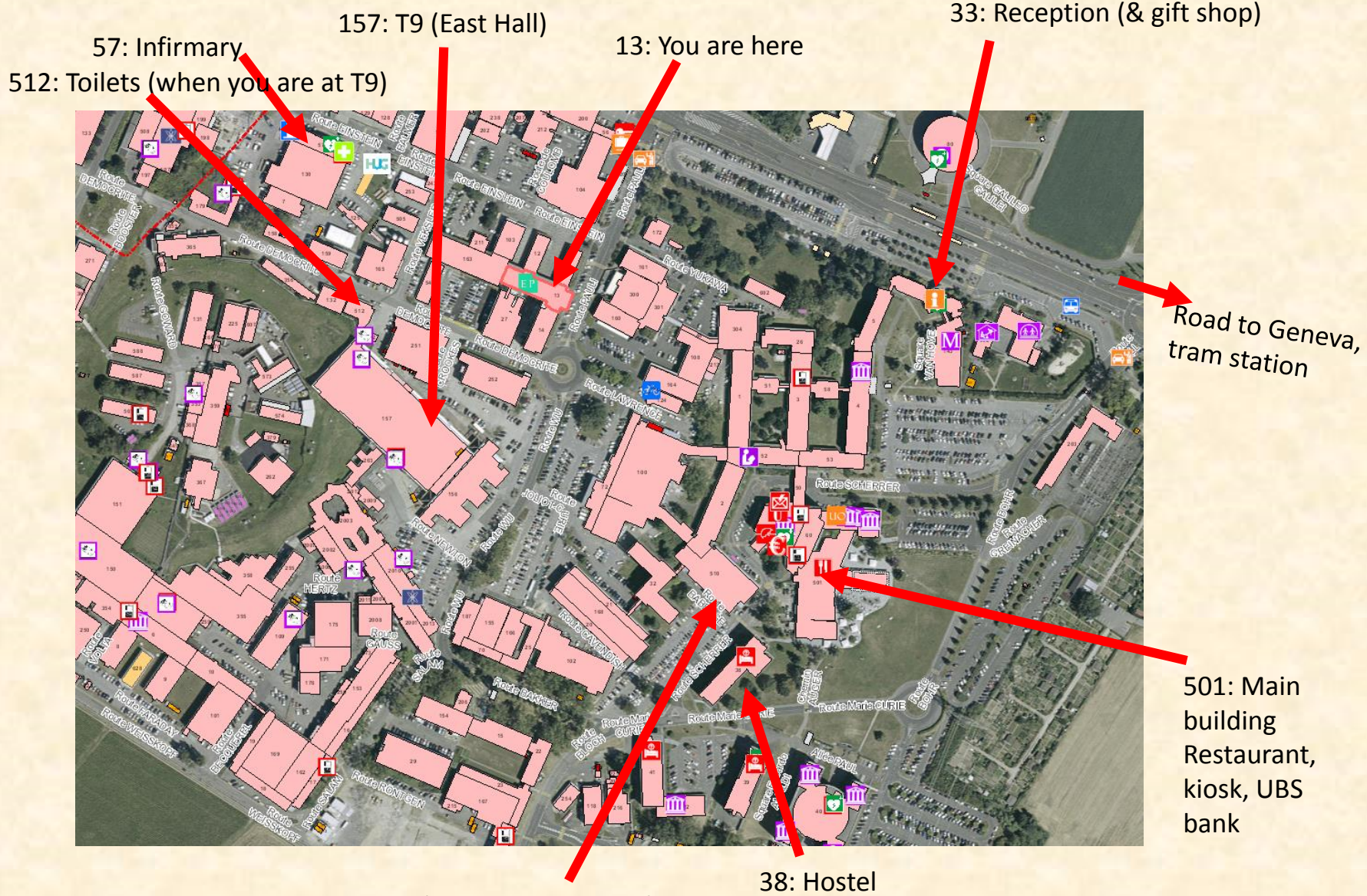
<https://indico.cern.ch/event/494809/>

Today

Time	Item	Speaker(s)
9:00	Welcome & General remarks	Markus
9:25	Presentation of the team from the UK	
9:55	Presentation of the team from Poland	
10:25	Introductory lectures	Theodoros, Sasho, Lau, Osnan
13:00	VIP visit	
14:00	Lunch ..... finally	
15:00	Setting up of the experiments, maybe <b>first beam</b>	

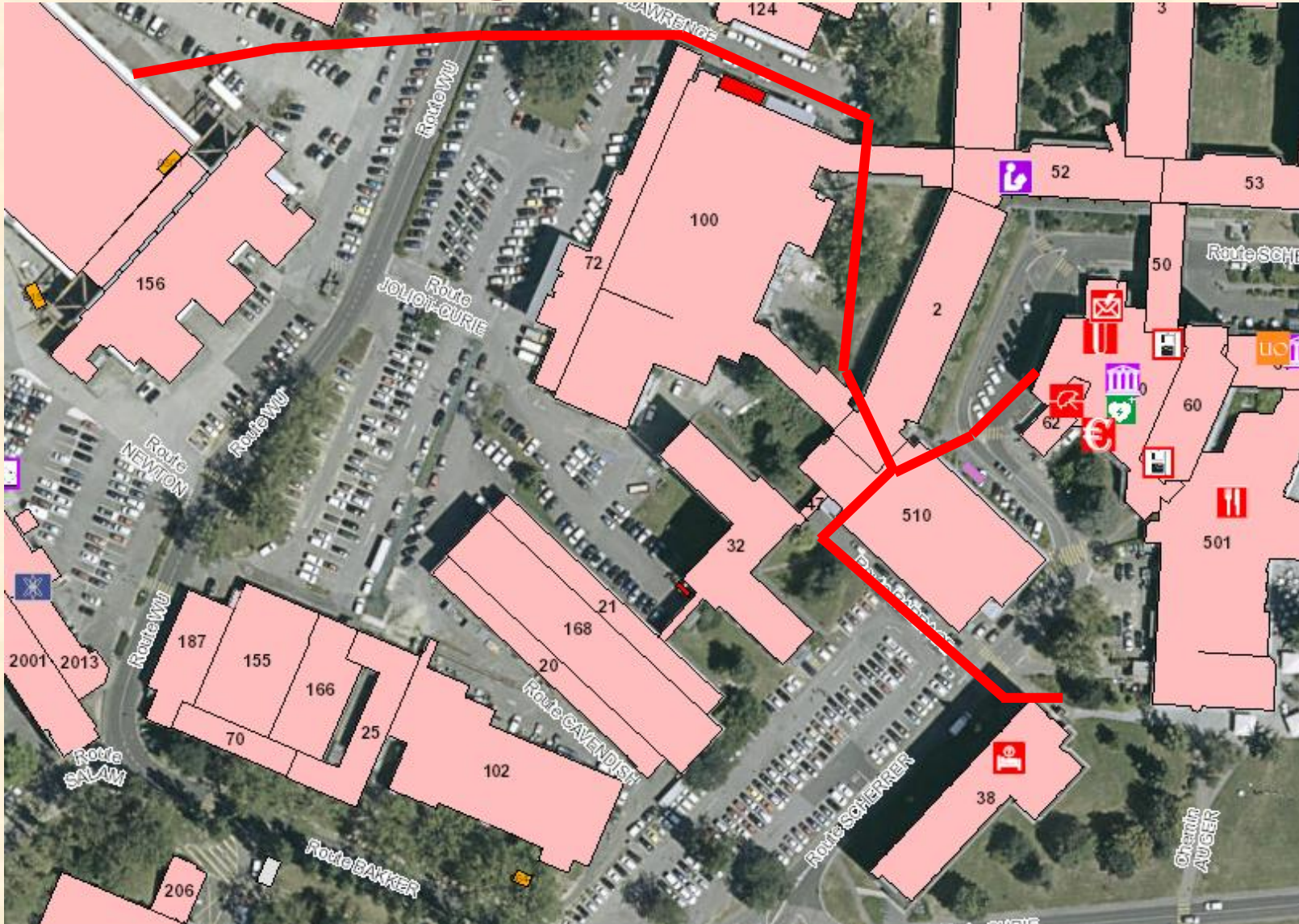


# Finding your way





# Walking between the sites



# It you need assistance.....

Call one of these numbers from any CERN telephone:

- **Markus:** 160663
- Theodoros: 162339
- Oskar: 161336
- Sasho: 160724
- Petya: 71259
- **Fire brigade:** 74444

## Please respect these rules:

- Do not smoke inside of buildings
- Do not eat or drink in the hostel rooms and in the “East Hall”
- Act according to the code of conduct (you have all signed it)

# 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 25 September: **10:00**
  - Your luggage can be stored until your departure
- 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



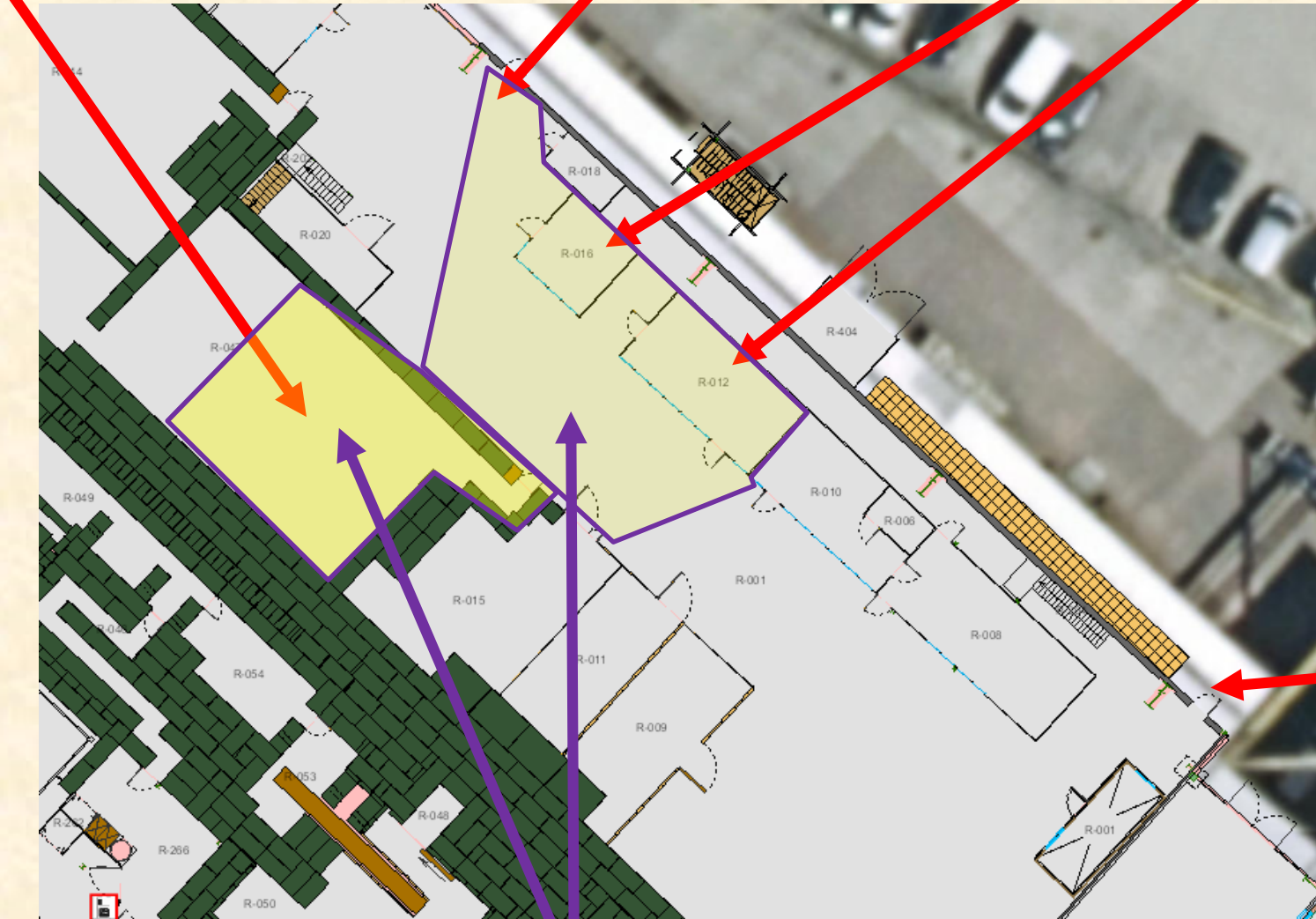
# The experimental area (building 157, East Hall)

T9 Experimental area  
Only accessible when beam is off

Main door

Storage room

Control 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

RF-ID



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

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

In addition inside of building 157 you must not:

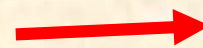
- Consume **food or drinks**
- **Smoke** (...anyway a bad idea)



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

- **Do not bring or remove any material** to / from T9 unless authorized
- **Do not touch any equipment** unless authorized
  - Be smarter than the weasel...
- **Walk carefully!**

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



# While we are taking data (17 – 25 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

- Exceptions:
  - Tomorrow the meeting will be in 13-2-5
  - There will be no meeting on 21.9.

For the work in the counting room you will be divided up into **4 crews 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 UK: Room 510-R-2
    - Team Poland: Room 510-R-10
  - You have **free time**
    - Visit Geneva
    - We can organize some ad-hoc visits at CERN
    - Have a look at the Microcosm (building 33) and the Globe



# Shift crews and schedule (17 – 24 September)

Crew	Members
1	Gutowski Li Kwok Chung
2	Komorowska Józwiak Singh Tsui
3	Piju Krakowski Hirst Harrow
4	Trojanowska Szymczak Raven Broomfield

Day	Start time	Crew
Saturday, 17	9:20	1
	12:00	2
	15:00	3
	18:00	4
Sunday, 18	9:20	2
	12:00	3
	15:00	4
	18:00	1
Monday, 19	9:20	3
	12:00	4
	15:00	1
	18:00	2
Tuesday, 20	9:20	4
	12:00	1
	15:00	2
	18:00	3
Thursday, 22	9:20	1
	12:00	2
	15:00	3
	18:00	4
Friday, 23	9:20	2
	12:00	3
	15:00	4
	18:00	1
Saturday, 24	9:20	3
	12:00	4
	15:00	2
	18:00	2

# Going to Geneva

## General remarks about Geneva:

- The population tends to speak **French**....
  - Many people do speak English too. 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 coins)
  - There is a ticket vending machine at every station
  - We provide you with a **travel card** with a credit of CHF 20
  - <http://www.tpg.ch/en/web/site-international>



Remember:  
You need your  
CERN card to re-  
enter the CERN  
site

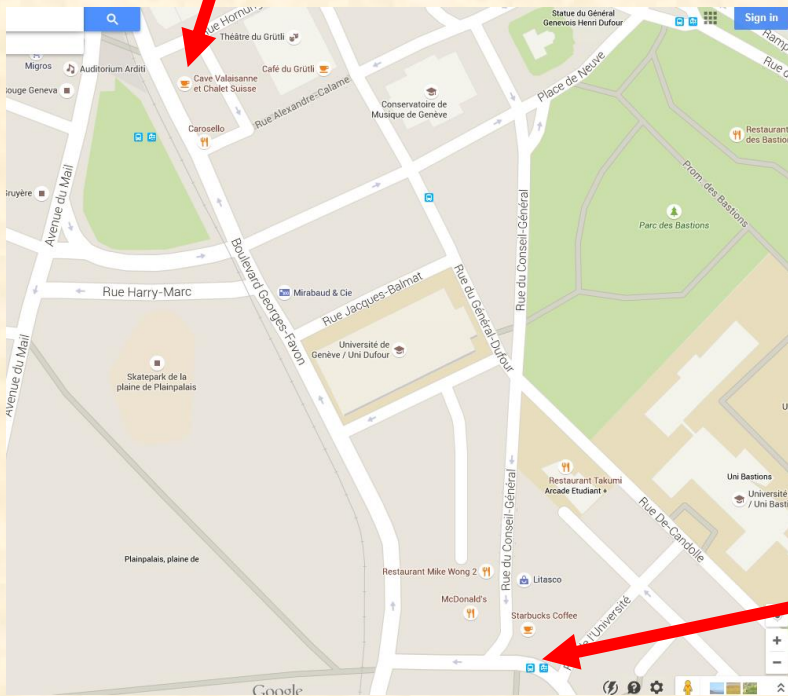


# The Fondue (Saturday, 17.9.)

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 / Chalet Suisse  
Address: 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

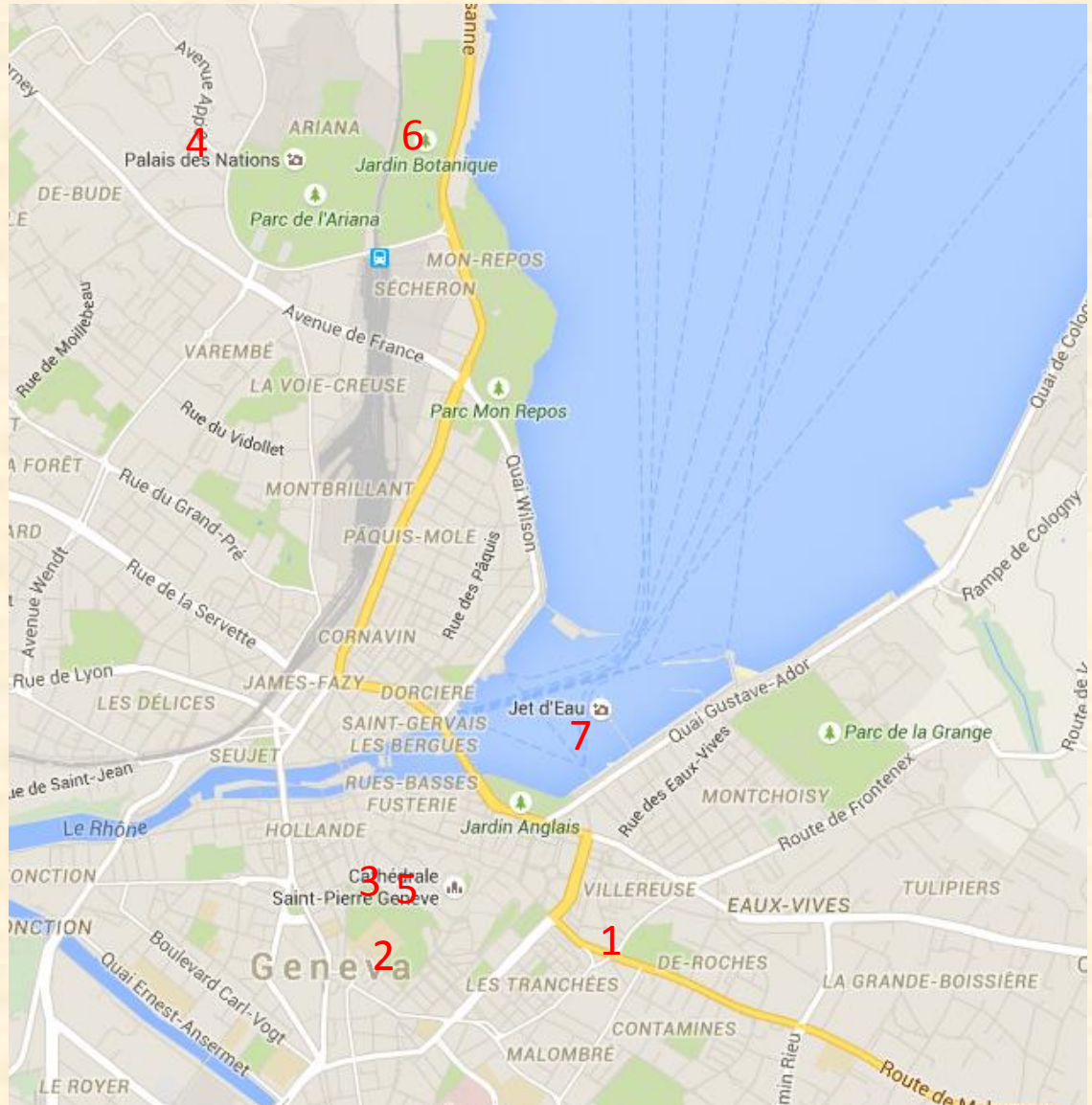
## Museums that are worth the price of the ticket

- 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



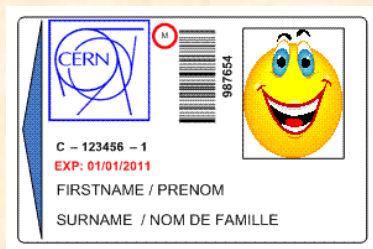


# Your departure

On 25 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 25 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



# The VIP visit this afternoon

- You have to be in the “East Hall” at 12:45 at the latest
- You must wear your protective equipment (shoes and helmet) as well as your name badge and dosimeter
- You are allowed to take photos but please be discrete
- Student guides:
  - Team UK: Markus and Theodoros
  - Team Poland: Oskar and Christoph
- After the visit we will go together to building 156 (just next door)
  - There will be a sandwich buffer (help yourself....)
  - A group picture will be taken
  - Don't hesitate to talk with the officials. They are curious about you

# Enjoy your stay at CERN



...any questions??