

Beamline for Schools

Introduction



The Program

The full (and official and up-to-dat) program of this week can be found at:

<https://indico.cern.ch/event/613534/>

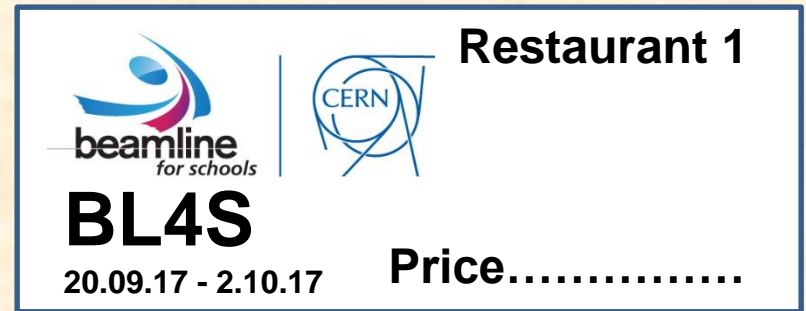
Today

Time	Item	Speaker(s) / Remarks
9:00	Welcome & General remarks	Markus
9:20	Presentation of the team from Canada	
9:50	Presentation of the team from Italy	
10:20	Introductory lectures	Lau, Ina, Bane
12:00	Lunch	
13:30	Distribution of the safety shoes	We will meet at 13:20 in front of the UBS bank in the main building (close to Restaurant 1)
14:30	Visits	

Food vouchers

How it works:

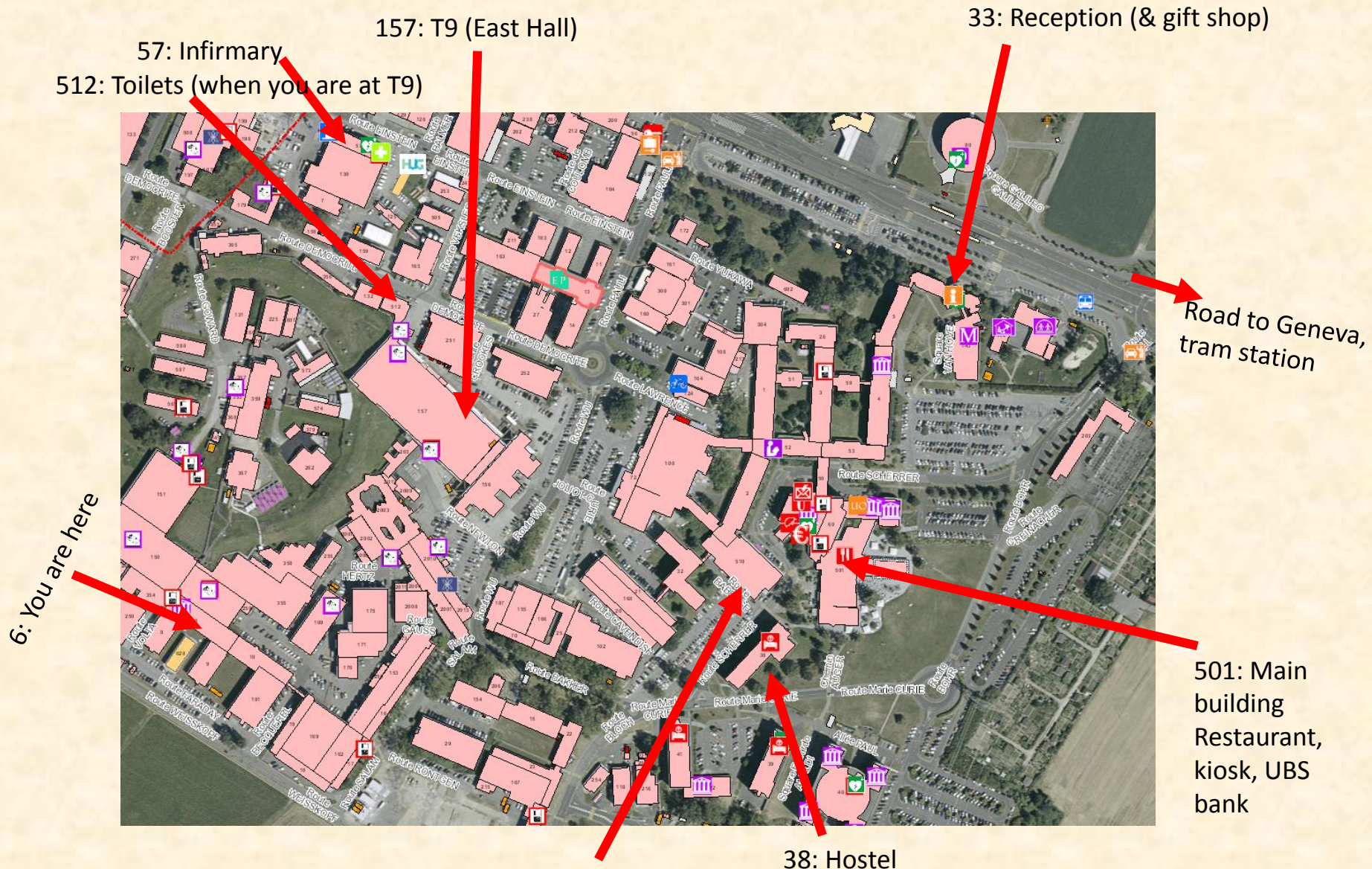
- Vouchers are only valid in **Restaurant 1**
- You will get **3 vouchers per day**
 - Exceptions:
 - Today: 2 vouchers (plus Welcome Reception at 18:00)
 - Saturday 23.9.: 2 vouchers (plus fondue in Geneva)
 - Monday 2.10.: 2 vouchers (sadly you will be leaving us...)
- You may consume food and drinks for **up to CHF 35 per day** (not per meal!)
 - We trust you. **Please be fair!**



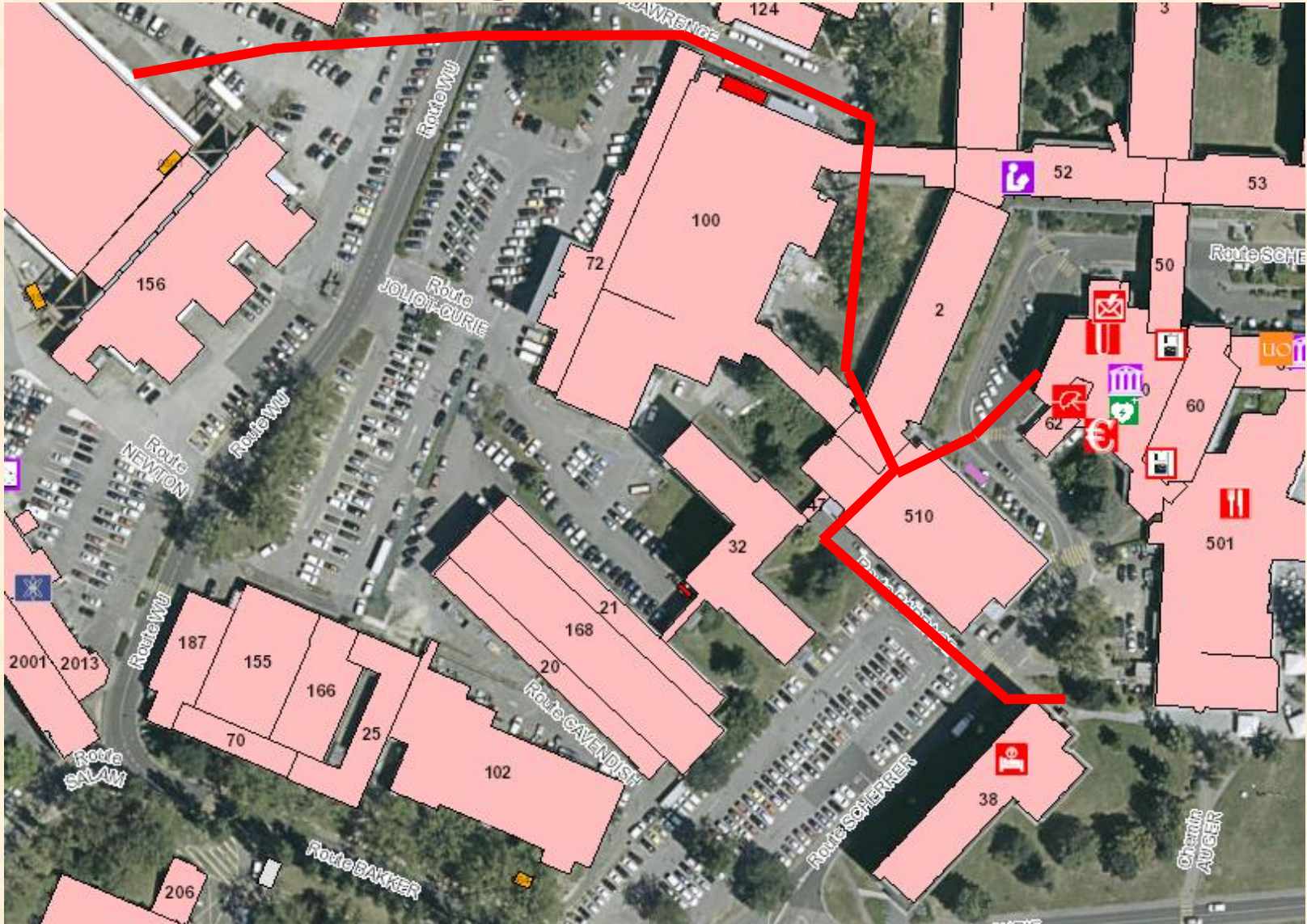
In the restaurant:

- Take what you like & eat what you take
- There is a water fountain outside the self service area
- If you want **coffee**: Ask for a “**token**” (CHF 1.50)
 - Use the token with the coffee machines next to the restaurant entrance
- **Give one voucher to the cashier** and **check** that (s)he enters the **correct price**

Finding your way



Walking between the sites



It you need assistance.....

Call one of these numbers from any CERN telephone:

- **Markus:** 160663
- Ina: 169576
- Bane: 166719
- Ines (administration): 162297
- **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 2 October: **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



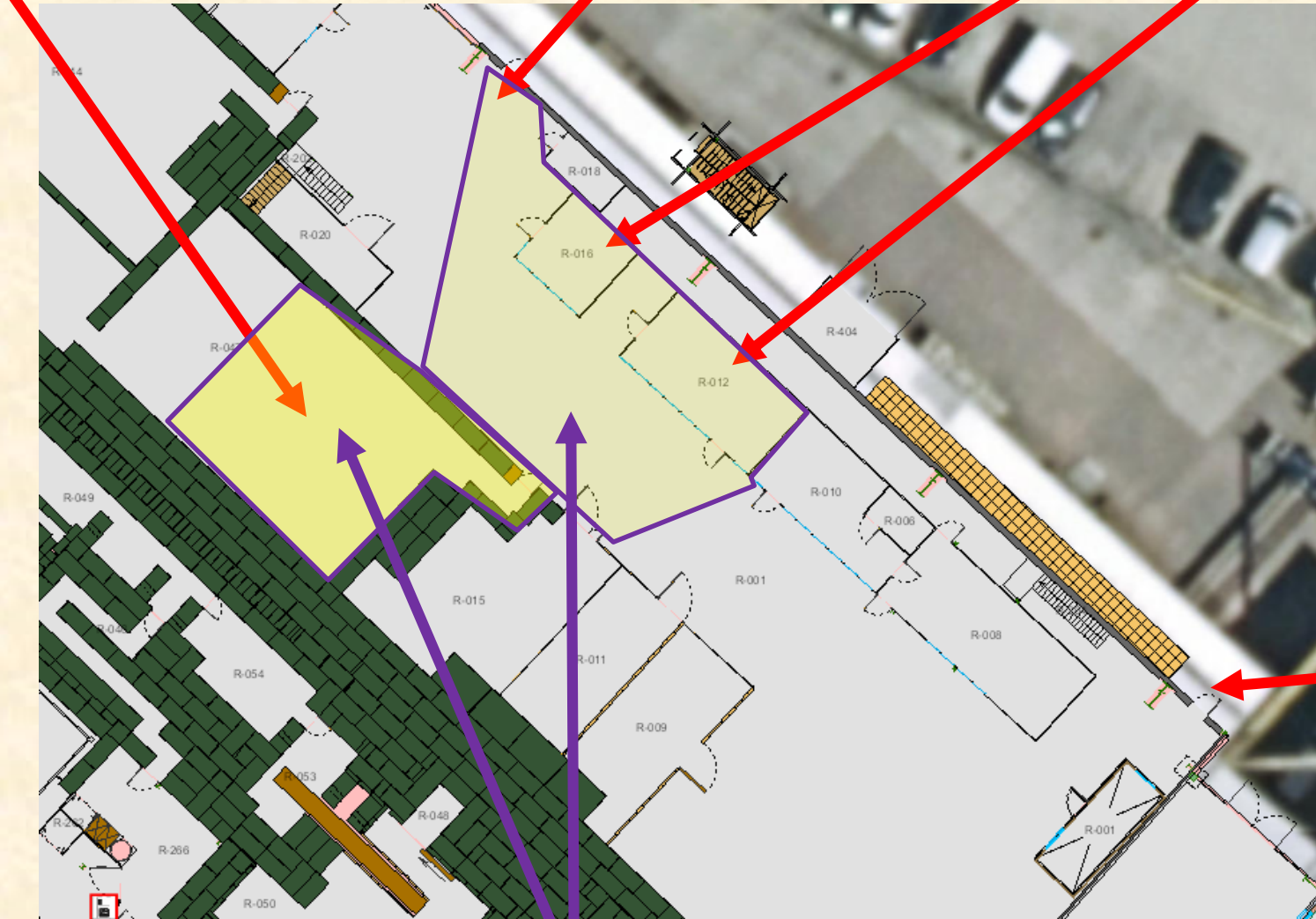
The experimental area (building 157, East Hall)

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

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 stone marten...
- (<https://www.theguardian.com/science/2017/jan/27/cerns-electrocuted-weasel-display-rotterdam-natural-history-museum>)
- **Walk carefully!**

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

RF-ID



While we are taking data (24 September – 1 October)

Every day at 9:00 we have a **general meeting** in the room 510-R-10 in order to discuss the plan of the day

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 Canada: Room 510-R-4
 - Team Italy: 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

(24.9. – 1.10.)

Crew	Members
1	Roberta Barbieri Simone Giano Caitlyn Mourcos Paul McKarris Jacob Lehmann
2	Letizia Manardi Simone Pierantozzi Emily Loke Mathieu Gilmour Marina Robin Colin Billiau
3	Davide Cartuccia Marco Ricci Dominique Morrison Mariam Ibrahim Andrew Mourcos
4	Luca Ciucci Alessandro Rongoni Denisa Logojan Mélanie Poirot Lucas Ferron

Day	Start time	Crew
Sunday, 24.9.	9:20	1
	12:00	2
	15:00	3
	18:00	4
Monday, 25.9.	9:20	2
	12:00	3
	15:00	4
	18:00	1
Tuesday, 26.9.	9:20	3
	12:00	4
	15:00	1
	18:00	2
Thursday, 27.9.	9:20	4
	12:00	1
	15:00	2
	18:00	3
Friday, 28.9.	9:20	1
	12:00	2
	15:00	3
	18:00	4
Saturday, 29.9.	9:20	2
	12:00	3
	15:00	4
	18:00	1
Saturday, 30.9.	9:20	3
	12:00	4
	15:00	1
	18:00	2
Sunday, 1.10.	9:20	4
	12:00	1
	15:00	2
	18:00	3

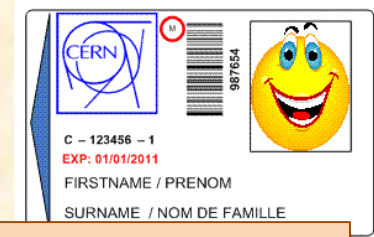
Going to Geneva

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)
 - **Place 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 VIP visit on Friday 29.9.

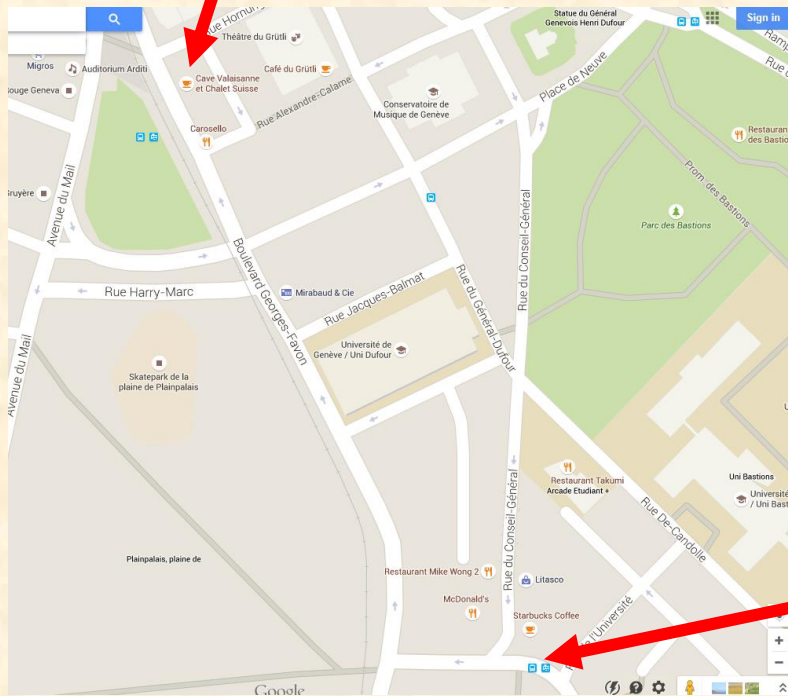
- You have to be in the “East Hall” at 12:45 at the latest
- You must wear your protective equipment (shoes and helmet) as well as your name badge and dosimeter
- You are allowed to take photos but please be discrete
- Student guides:
 - Team Canada: Markus and Bane
 - Team Italy: Christoph and Ina
- 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

The Fondue (Saturday, 23.9.)

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

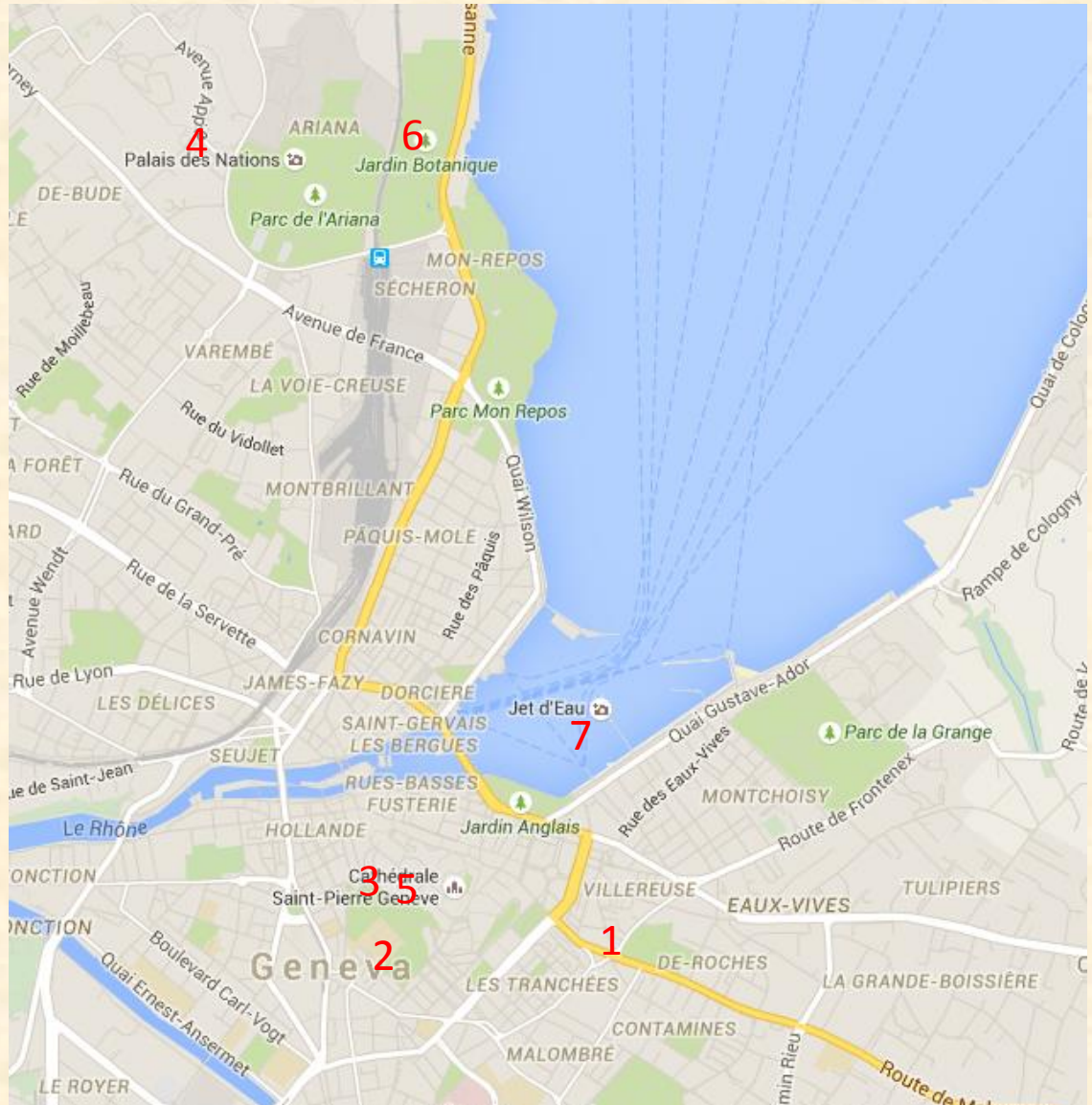
Museums that are worth the price of the ticket

- 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

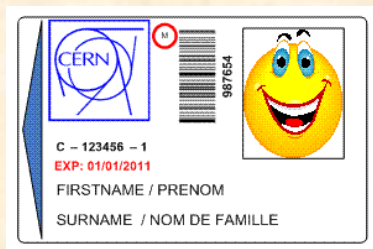


Your departure

On 2 October:

- **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 late morning / afternoon we will take you to the airport

To be returned



Keep this in mind...

You are a scientist!

BL4S is not over on 2 October

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??