

**Programme  
Idealeague Physics Trip 2018**

## Overview of the week

### **Monday** (p.4)

Arrival at *Geneva Hostel* (p.10)

Dinner in the hostel

Welcome & Teambuilding

### **Tuesday** (p.5)

Breakfast in the hostel

Two presentations/talks at the university of Geneva

Free time in Geneva

*UN* tour

Dinner in the hostel

Optional evening programme together

### **Wednesday** (p.6)

Breakfast in the hostel

*CERN* visit (tour & Microcosm)

Travel to Zurich

“Check in” *bunker* (p.10)

Joined pasta dinner with VMP\*

### **Thursday** (p.7)

Breakfast in VMP rooms

Three presentations/talks at *ETH*

Lunch in *ETH* cafeteria

BBQ dinner with VMP

Optional evening program together

### **Friday** (p.8)

Breakfast in the *PSI* cafeteria OASE

*PSI* visit (tour & talks)

Free night in Zurich

\* ETH's student association for mathematics and physics

**Saturday (p.9)**  
Late long breakfast in VMP rooms  
Final photo session  
Departure



**"Mr. Osborne, may I be excused? My brain is full."**

You can find detailed information on how we are going to get to places on p.11 in *Travel Information*.

## Monday

### Day of Arrival

Travelling is great.

We have spent most of the Monday in the train/bus. Wasn't that wonderful? So much interesting scenery to admire from your window seats, if you had one. Anyway, now that you have arrived, welcome to Geneva!

According to Wikipedia, Geneva is the home of many abbreviations, including UN, CERN, ICRC, WHO, IAO, ISO, ITU, WIPO, WMO, WOSM and the UNHCR. For everyday life, however, it is more important to know, that Geneva lies in the French-speaking part of Switzerland, so do not hesitate to reactivate remnants of school French.

Geneva Lake counts itself the second largest lake in Europe. Fun fact, it is also mentioned in the song "Smoke on the water", and also, a long time ago, in Caesar's "De bello gallico":  
Id hoc facilius iis persuasit, quod unddique loci natura Helvetii continentur:[...] tertia lacu Lemanno et flumine Rhodano, qui provinciam nostram ab Helvetiis dividit.

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5.30pm – 7pm:	Arrival at Geneva Hostel (p.10)
7pm – 8pm:	Pizza Dinner in the hostel
8.30pm:	Welcome & Teambuilding in a hostel conference room

**Tuesday**  
Université Genève & United Nations

From 6.30am:	Breakfast in the hostel
9.00am:	Departure to the university of Geneva
10.00am:	Meeting different work groups of: <ol style="list-style-type: none"><li>1.) Prof. Markus <b>Stoffel</b>: <u>Climate Change Impacts and Risks in the Anthropocene</u>. The group focuses on climate change impacts, time-series and dynamic processes, dendroecology and wood anatomy of trees and shrubs.</li><li>2.) Prof. Jérôme <b>Kasparian</b>: <u>Nonlinearity and Climate</u> Here they do research at the interface between physics and climate science. In particular, they develop analogies between non-linear physical and natural systems, e.g. modelling weather phenomena with the help of non-linear optic.</li></ol>
12.00am:	Free time <ul style="list-style-type: none"><li>• You can stay for a talk with Antonio Riotto the Head of the Physics Departement</li><li>• Visit the interactive „Musee d` historie des sciences“. It is free of charge and on the way to the United Nations</li><li>• Simply enjoy Geneva</li></ul>
3.30pm:	Visiting <b>United Nations</b>
7.00pm:	Dinner in the Geneva Hostel restaurant

## Wednesday

### CERN

CERN is the commonly used name for the European Organisation for Nuclear Research. This abbreviation is derived from the French name *Conseil européen pour la recherche nucléaire*.

On its website, it says that at CERN “physicists and engineers are probing the fundamental structure of the universe” using “the world's largest and most complex scientific instruments to study the basic constituents of matter – the fundamental particles”.

Exciting!!

Aside from the tour around the premises, you will be given time to check out the exhibition in the Microcosm, the “CERN-museum”. It is supposed to “take visitors on a journey through CERN’s key installations”, where you can “follow the path of the particles from the bottle of Hydrogen, through the network of accelerators and in to collision inside vast experiments”. In this museum we are also going to take a closer look to the history of CERN and the particle physics. „From the tiniest constituents of matter to the immensity of the cosmos, discover the wonders of science and technology at CERN“

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From 6.30am:	Breakfast in the hostel
7.30am	Departure for CERN (checked out!)
9.00am – 11am	Guided <b>tour</b> through the most fascinating parts of the CERN
12.00pm	<b>Lunch</b> at Restaurant R1 Meyrin
1.00-2.00pm	Visiting the <b>Microcosm</b>
2.00pm	Departure for Zürich from CERN
6.30pm	“Check In” Bunker
7.15pm	Pasta dinner with the VMP at ETH
After dinner:	Socializing at the student bar (optional)

**Thursday**  
Eidgenössische Technische Hochschule Zürich (ETH)

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- 9.30am      **Talk:**  
Rainer **Wallny** specializes on the Upgrade and Improvement of CMS for High Luminosity
- 11.30am      Lunch
- 1.00pm      **Talk:**  
Matt **Grau** focuses on optimizing precise measuring by using trapped ion quantum information techniques.
- 3.30pm      **Talk:**  
Günther **Dissertori** does research on a broad amount of experimental particle physics being involved in CMS and other experiments at CERN, but also keeping a strong connection to the theoretical department. He furthermore provides research on everyday physics like health care, for example through detector development for an axial pet scanner.
- 6.00pm      Delicious **Barbeque** followed by an open night of optional movies, board games or wandering to the lake

## Friday

### Paul Scherrer Institute (PSI)

According to its website the PSI is “the largest research institute in natural and engineering sciences in Switzerland, conducting cutting-edge research in three main fields: matter and materials, energy and environment, and human health”. So, here we are going to get to peak into entirely different exciting fields than we have seen in Geneva.

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7.00am	Walk from the bunker to ETH
7.30am	Departure for PSI
8.30am	Breakfast in the PSI cafeteria OASE
9.30am	Tours through the PSI, featuring <ul style="list-style-type: none"><li>- The Swiss Light Source (SLS)</li><li>- The Swiss Spallation Neutron Source (SINQ)</li><li>- Swiss Muon Source (SMS)</li></ul>
12.30pm -1pm:	Lunch break
2.30pm	Meeting different collaborations (parallelly):
4.30pm	Departure for Zurich
6pm	Arrival in Zurich and release in the night off in Zurich



**Saturday**  
Day of Departure

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From 8.30	Breakfast
Around 10.00	Goodbye Programm
1.00 p.m. – 3.00 p.m.	Departure
Later	Home Sweet Home

## **HOSTEL Geneva**

Genève Hostel

Rue Rothschild 30

1202 Genève (GE)

Tel: +41 (0)22 732 62 60

[geneve@youthhostel.ch](mailto:geneve@youthhostel.ch)

In Geneva, we are staying in a youth hostel right beside the banks of Geneva Lake, a few hundred meters from Cornavin railway station. For the duration of our stay every participant gets a Geneva Transport Card, which is valid for all public transport in Geneva and will be handed out to you during check in.

A map of the surrounding area can be found on the back of this programme.

## **Bunker Zurich**

Turnerstrasse bei 45

8006 Zürich

Telefon +41 44 362 23 62

The Züricher Bunker is originally designed for 100 people. Thus being only a third we have a lot of space to enjoy. To get to the bunker from the ETH Zurich by foot takes less than half an hour. You simply walk to Winterthurerstasse and follow it for a half kilometre then turn left to Kinkelstrasse then fifth right to Turnerstrasse. And next to the Church Unterstrass you see our bunker.

## Travel Information Switzerland

### Monday

The three groups arrive individually at Geneva Hostel before 7pm and each participant receives the Geneva Travel Card upon check in, which is valid for almost all public transport in Zone 110 (you can get a map of Geneva at the hostel reception).

### Tuesday

We use the Geneva Travel Cards to get to the University of Geneva via public transport in the morning and later to get to the UN. You can also use it for individual trips during the lunch break.

### Wednesday

We have one big coach for the transport from Geneva to Zürich for the whole group, which **departs at 2pm from CERN** and is scheduled to arrive in Zurich at 6pm. The VMP rooms are only a 15 minute walk from the bunker. So, we do not need to use public transport here.

### Thursday

We walk.

### Friday

For the transport from Zurich to Villingen, where the Paul Scherrer Institute is located, and back we have a coach for the whole group again. It **departs at 7.30am from ETH** and should arrive at 8.30am.

### Saturday

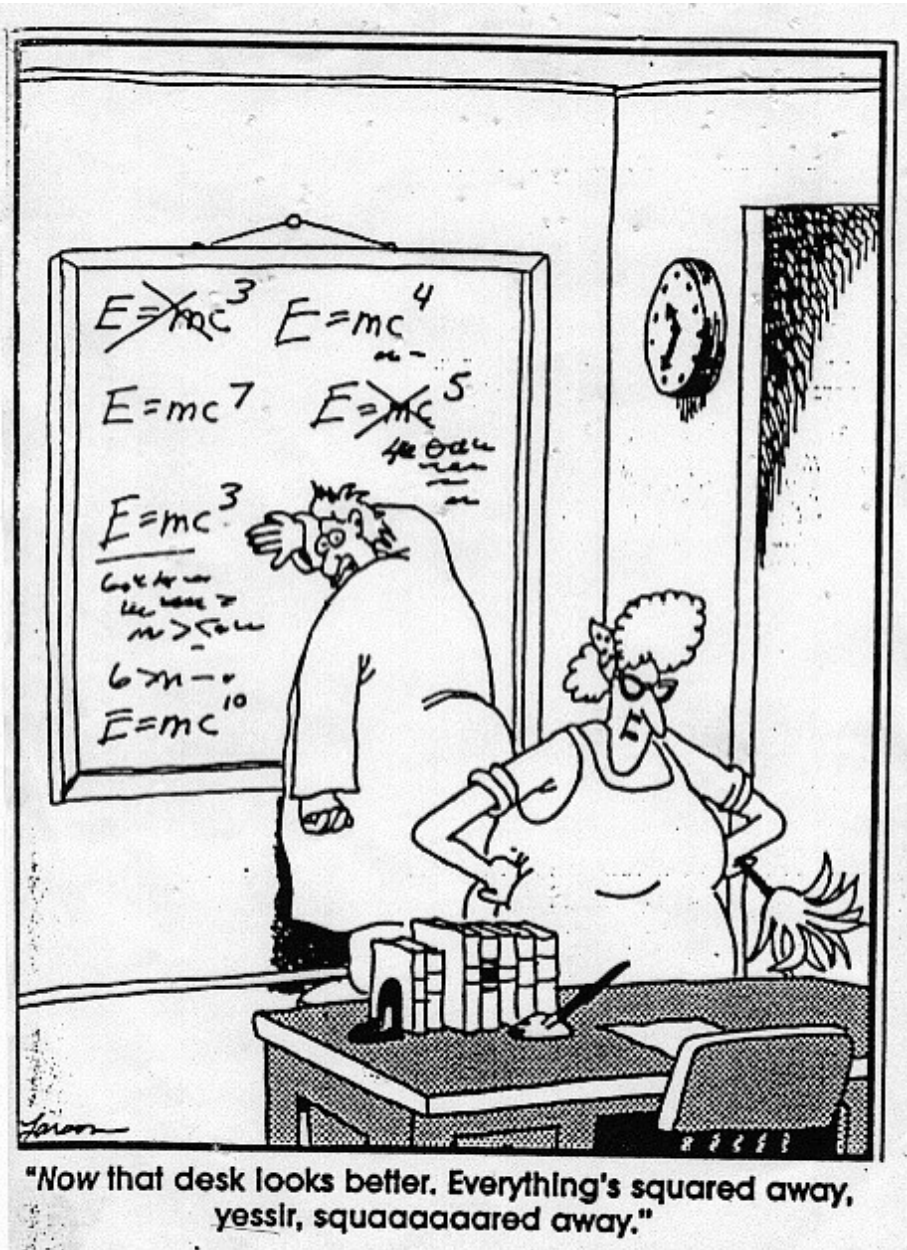
The three groups depart individually at different times past 1pm. Make sure you know when your group is leaving!

**Thank you for the support to**

**INTERNATIONAL  
ACADEMY**

**RWTHAACHEN  
UNIVERSITY**

**IDEA League**



Issued by

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## Geneva Hostel



Kartendaten © 2018 Google 200 m

## Turnerstrasse 45

Zurich



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