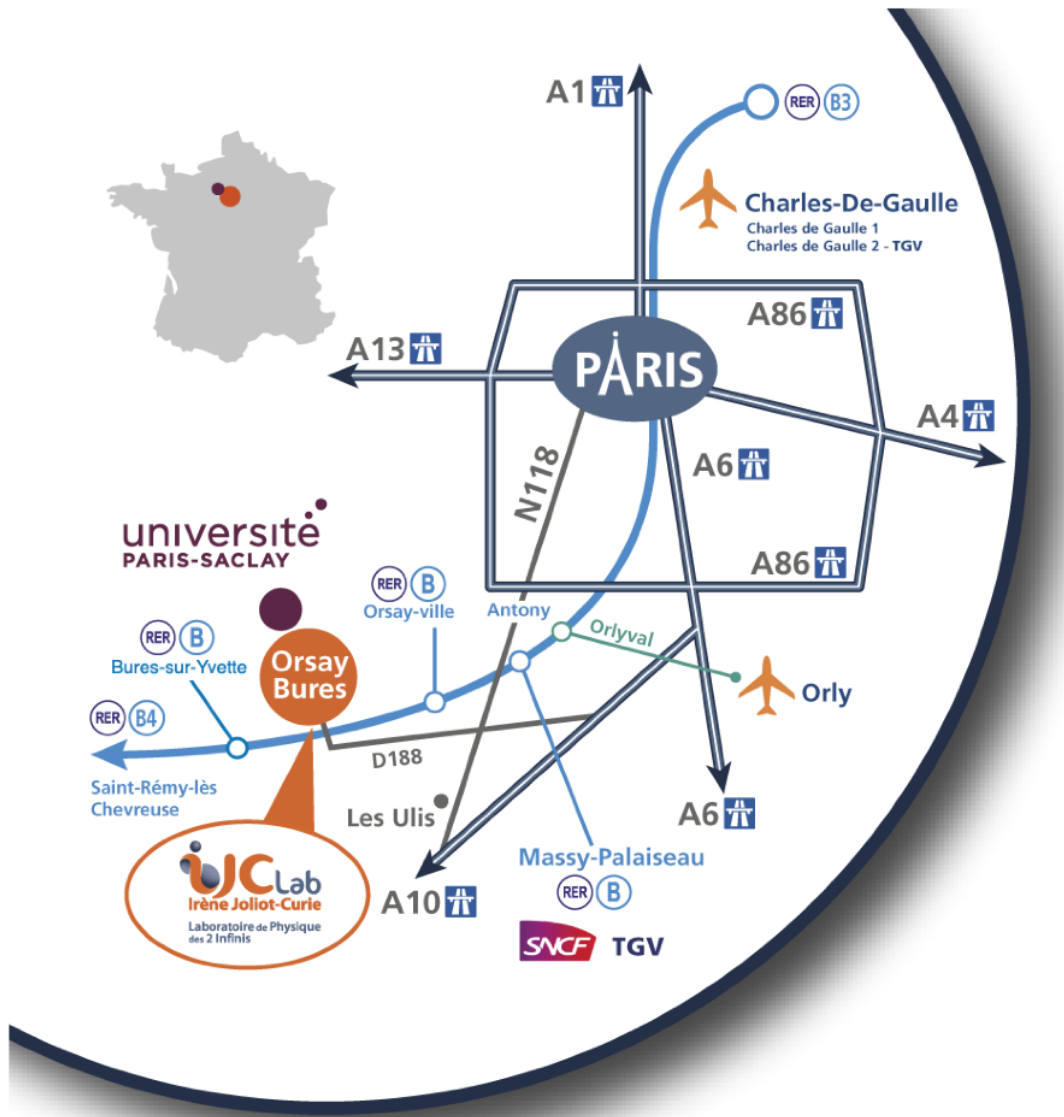


Dear Participant,

We are glad to welcome you to the [Invisibles School 22](#) that will take place at IJCLab, in Orsay (southern Paris suburb), from **13 to 17 June 2022**.

Below you can find practical information regarding your stay and your participation.



Venue

IJCLab is in the Orsay campus of Université Paris-Saclay (cf. map above), 25 km southwest from Paris downtown. The easiest way to reach the campus is by taking the local train RER-B (light blue on the map) and get off the train at the stop "**Bures-sur-Yvette**" [about 40 min from Paris and about 75 min from the Charles-De-Gaulle Airport].

Accommodation

Accommodation is arranged at the [Residhome Appart Hotel Bures la Guyonnerie](#) situated at Bures-sur-Yvette.

Since it is already arranged, there is no need for you to contact the hotel. Note that there is a 10-15min walk from the RER-B stop ``[Bures-sur-Yvette](#)`` to *Residhome Bures*, and about as much from *Residhome Bures* to the School venue.

Note also that there is a fully furnished kitchen in each room.

How to reach Bures-sur-Yvette?

- **Arrival by plane to Roissy/Charles de Gaulle:**
Follow the signs ``[Paris by train](#)`` and ``[RER-B](#)`` and walk to the local train station. You should buy a ticket to ``[Bures-sur-Yvette](#)`` and then board a train in the direction of ``[Saint Rémy-lès-Chevreuse](#)`` (see the above map).
- **Arrival by plane to Orly:**
Follow the signs ``[OrlyVal](#)`` and ``[Paris by train](#)`` and walk to the OrlyVal. Before boarding the shuttle you should buy a ticket to ``[Bures-sur-Yvette](#)``. The shuttle brings you to the RER-B stop ``[Antony](#)`` where you should get on a train heading in the direction of ``[Saint Rémy-lès-Chevreuse](#)`` (see the above map).
- **Arrival by train to Paris:**
The main train stations in Paris are connected to the local train ``[RER-B](#)``. At the *Gare du Nord* there is a RER-B stop underground. From the *Gare de Lyon*, instead, you can take the Métro (line 1) and join the RER-B at the stop ``[Châtelet Les Halles](#)``. In any case, you should buy a ticket to ``[Bures-sur-Yvette](#)`` and then board a train in the direction of ``[Saint Rémy-lès-Chevreuse](#)`` (see the above map).

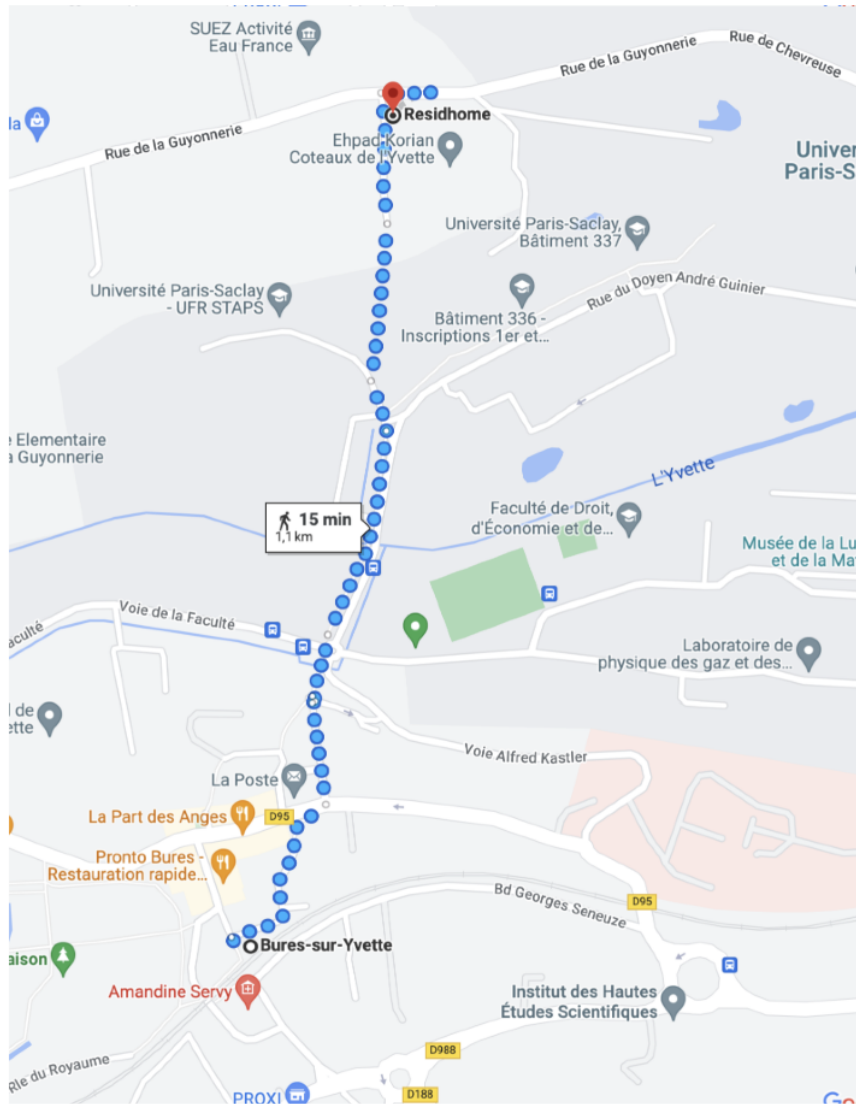
For more information regarding the public transportation in Paris please see <https://www.ratp.fr/>

How to reach the hotel Residhome?

The address of the [Residhome AppartHotel](#) is

1A, rue de la Guyonnerie, 91440 Bures-sur-Yvette.

The easiest way is to walk from the RER-B stop ``[Bures-sur-Yvette](#)`` following the map appended below. The same map is available on <https://goo.gl/maps/Edqrq4xc3aNHX7nq9>
There will be signs to help you along the way and you should be at the hotel within 15 min.



Those who prefer to take a cab anyway, besides Uber there is a local Taxi service that you should book well in advance on <https://www.itaxis.fr/bures-sur-yvette-91440.htm> (by “*in advance*” we mean in the morning if you arrive late in the afternoon).

Invisibles School – Lectures

- Neutrino Probes of New Physics - **Joachim Kopp**
- Primordial Black Holes and Dark Matter - **Joseph Silk**
- Monte-Carlo Tools for LHC - **Eleni Vryonidou**
- Theory and Phenomenology of the SMEFT - **Adam Falkowski**
- Physics of Axions - **Giovanni Villadoro**
- Flavor Physics - **Svjetlana Fajfer**

Lectures will take place in the **Amphitheatre Pierre Lehmann [Campus Building 200]**. The program is available on the Indico page <https://indico.ijclab.in2p3.fr/e/school-invisibles22> and, for your convenience, also in this bulletin:

Invisibles School 22 - Orsay (France)					
Week of:	June 13				
	6/13	6/14	6/15	6/16	6/17
	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
	<i>Neutrinos (ph) and Cosmo</i>	<i>Neutrinos (exp) and Cosmo</i>	<i>SMEFT and MC Tools</i>	<i>SMEFT and MC Tools</i>	<i>Axions and Flavors</i>
9:30 AM	Neutrino probes of New Physics Joachim Kopp	Neutrino probes of New Physics Joachim Kopp	SMEFT Adam Falkowski	SMEFT Adam Falkowski	Axions Giovanni Villadoro
11:00 AM	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
11:30 AM	Primordial Black Holes and DM Joe Silk	Primordial Black Holes and DM Joe Silk	MC Tools for LHC Eleni Vryonidou	MC Tools for LHC Eleni Vryonidou	Flavors Svetlana Fajfer
13:00 PM					
	Lunch	Lunch	Lunch	Lunch	Lunch
	<i>Neutrinos (ph) and Cosmo</i>	<i>Neutrinos (exp) and Cosmo</i>	<i>Axions and MC Tools</i>	<i>Free afternoon</i>	<i>SMEFT and MC Tools</i>
2:30 PM	Study time / tutorial	Study time / tutorial	Study time / tutorial	Free afternoon / Outreach	Study time / tutorial
3:00 PM	Tutorial Groups 1/2: Cosmo/Standard probes Groups 3/4: Neutrinos	Tutorial Groups 1/2: Neutrinos Groups 3/4: Cosmo/Standard probes	Tutorial Groups 1/2: MC Tools Groups 3/4: MC Tools		Tutorial Groups 1/2: SMEFT Groups 3/4: MC Tools
4:30 PM	Coffee Break	Coffee Break	Coffee Break		Coffee Break
5:00 PM	Poster Session (Reception Cocktail)	Discussion/seminar TBC	Tutorial Groups 1/2: MC Tools Groups 3/4: SMEFT	Free afternoon / Outreach	Discussion/seminar Sterile Neutrinos
6:00 PM					
7:00 PM			Social diner (et le Buron)		Closing

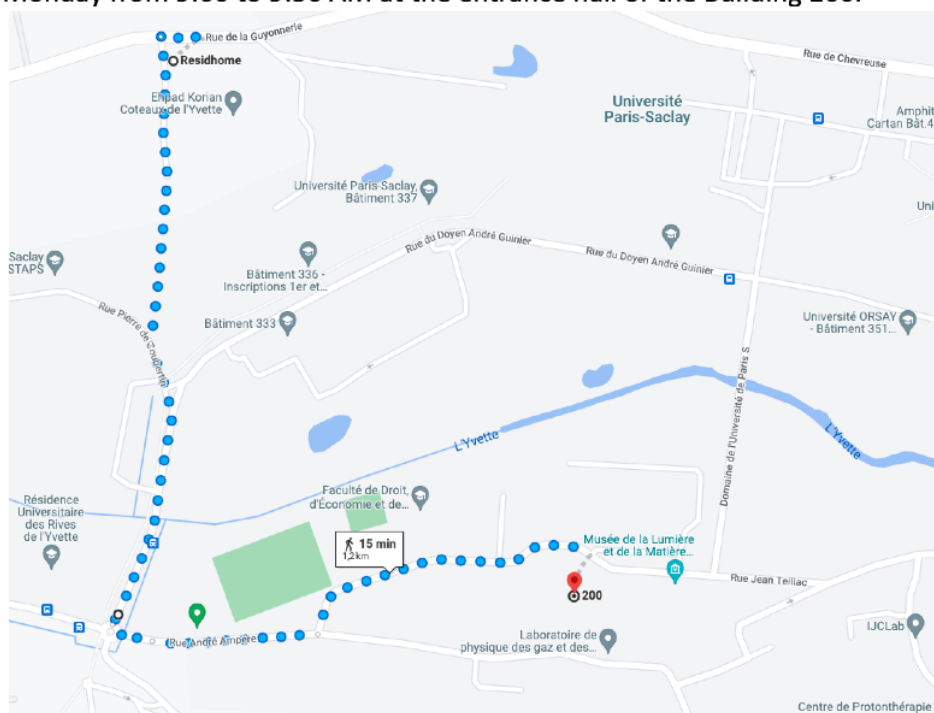
Invisibles School – Tutorials

Tutorials will be organized in Building 200 and 210 (5min walk from 200). The designated tutors are:

- Neutrino Probes of New Physics - **Patrick Bolton** and **Salvador Rosauero**
- Primordial Black Holes and Dark Matter - **Nicolas Bernal** and **Giacomo Landini**
- Monte-Carlo Tools for LHC - **Xabier Marcano** and **Basabendu Barman**
- Theory and Phenomenology of the SMEFT - **Jason Aebischer** and **Maria Ramos**

Information and registration desk

To walk from your hotel to the Building 200 please follow the map below, which is also available on <https://goo.gl/maps/N8ysCZe2WrXdX2gq6>. Notice that the **Registration** will take place on Monday from 9:00 to 9:30 AM at the entrance hall of the Building 200.



Poster Session

The Poster Session will take place **on Monday from 5:00 to 6:00 PM in the cafeteria of Building 200**. Posters should be of the A0 or A1 size, and preferably in the *portrait* format. We will have a poster prize!

Please note that you should bring your poster with you and that no printing facilities for posters will be available during the School.

Meals during the School

- Breakfast will be served in the hotel.
- Lunch will be provided in the CESFO cafeteria on the Campus. See map below, also available on <https://goo.gl/maps/2wCnQyEd8QTmNqCx5>



- Dinner will not be provided during the school. Here are a few suggestions of restaurants around Bures-sur-Yvette and Orsay:
 - Restaurant le 63: <https://goo.gl/maps/kwXvhhDeQooiPgtJ8>
 - Bud's Deli: <https://goo.gl/maps/oNGbFwgSKW6p38os7>
 - Le Buron: <https://g.page/LeBuronRestaurant?share>
 - Mangata Restaurant: <https://g.page/MangataRestaurantPatisserieFine?share>
 - ...

Many more options are, of course, available in Paris or in the area around the RER-B stop "**Massy-Palaiseau**" [cf. the map on p1 of this bulletin].

Important: There are a few options for dinner in Bures-sur-Yvette/Orsay on Sunday evening. However, we advise the participants to come with a salad or sandwich before taking the RER-B to Bures-sur-Yvette. Otherwise, it is always possible to find open restaurants in Paris or Massy-Palaiseau [RER-B stop "[Massy-Palaiseau](#)", cf. map on p1].

Social Events

- A welcome cocktail will be held at IJCLab [building 200 - cafeteria] on June 13th.
- The social dinner is planned for June 15th at the Restaurant "[Le Buron](#)" starting from 7:00 PM.

Public lecture

[The public outreach lecture](#) (*in French*) by Yann Mambrini (IJCLab) is scheduled for Thursday June 16th at 5:30 PM in the amphitheatre Yoccoz at the Mathematics Institute (IMO).

Connectivity WiFi

Wifi connection is available in all buildings through the **Eduroam** network.

Important: Please make sure that you can access Eduroam with your institutional credentials before coming to the school.

WhatsApp group

A WhatsApp group has been created to facilitate communication among students. It is possible to join it via the following link: <https://chat.whatsapp.com/JQOyzvMs8uZ32dHHRoLIJt>

For any problem you might encounter before or during the school please write on the [WhatsApp chat](#) indicated above or contact one of the organizers:

Asmaa Abada: asmaa.abada@ijclab.in2p3.fr

Olcyr Sumensari: olcyr.sumensari@ijclab.in2p3.fr

Damir Becirevic: damir.becirevic@ijclab.in2p3.fr

Rebeca Bello: rebeca.bello@uam.es

Local organizers: event@IJCLAB.IN2P3.FR

We are looking forward to welcoming you in Orsay !



IN2P3

