EUROPHOTONICS
SPRING SCHOOL 2022
SITGES, BARCELONA
28 – 30 of March, 2022
<table>
<thead>
<tr>
<th>Time</th>
<th>Sunday, March 27th</th>
<th>Monday, March 28th</th>
<th>Tuesday, March 29th</th>
<th>Wednesday, March 30th</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.00 - 9.15</td>
<td>Opening words</td>
<td>Openning words</td>
<td>Carsten Rockstuhl (Karlsruhe Institute of Technology)</td>
<td>Time-resolved spectroscopy (Universidad Nacional Autónoma de México)</td>
</tr>
<tr>
<td>9.15 - 9.30</td>
<td>Patrick Ferrand (Université Aix Marseille) Phase imaging by computational microscopy</td>
<td>Patrick Ferrand (Université Aix Marseille) A multipolar theory for metasurfaces and metamaterials</td>
<td>Uli Lemmer (Karlsruhe Institute of Technology) Nanoophotonic devices fabricated by inkjet printing</td>
<td></td>
</tr>
<tr>
<td>9.30 - 10.15</td>
<td>Robert Fickler (Tampere University) Structured photons in quantum photonics applications</td>
<td>Goery Genty (Tampere University) Real-time measurements of ultrafast nonlinear dynamics</td>
<td>Uli Lemmer (Karlsruhe Institute of Technology) Nanoophotonic devices fabricated by inkjet printing</td>
<td></td>
</tr>
<tr>
<td>10.15 - 11.00</td>
<td>coffee break</td>
<td>coffee break</td>
<td>coffee break</td>
<td>coffee break</td>
</tr>
<tr>
<td>11.00 - 11.30</td>
<td>Jorge Alejandro Reyes (Universidad Nacional Autónoma de México) Strong coupling in conjugated Fibonacci porous Si array doped with Cds/In quantum dots</td>
<td>Maria García-Parajo (ICFO, Barcelona) Photonic antennas for nanoscale biology</td>
<td>Mario Montes (University of Barcelona) Observing and manipulating the microworld: confocal microscopy and optical trapping for cell mechanics</td>
<td></td>
</tr>
<tr>
<td>11.30 - 12.15</td>
<td>Kestutis Stallinien (UPC &amp; Vilnius University) Microlasers and spatial filters</td>
<td>Kestutis Stallinien (UPC &amp; Vilnius University) Gender balance in Photonics</td>
<td>Mario Montes (University of Barcelona) Observing and manipulating the microworld: confocal microscopy and optical trapping for cell mechanics</td>
<td></td>
</tr>
<tr>
<td>12.15 - 13.00</td>
<td>lunch</td>
<td>lunch</td>
<td>lunch</td>
<td>lunch</td>
</tr>
<tr>
<td>13.00 - 13.15</td>
<td>lunch</td>
<td>lunch</td>
<td>lunch</td>
<td>lunch</td>
</tr>
<tr>
<td>13.15 - 14.30</td>
<td>lunch</td>
<td>lunch</td>
<td>lunch</td>
<td>lunch</td>
</tr>
<tr>
<td>14.30 - 15.15</td>
<td>Hugues Giovannini (Université Aix Marseille) Can the past influence the future? Or how collective behaviours modify our decisions</td>
<td>Aidas Matijaus (Vilnius University) Modern femtosecond lasers and their applications</td>
<td>Verónica Ahufinger (Autonomous Univ. of Barcelona) Supersymmetry and topology in coupled optical waveguides</td>
<td>lunch</td>
</tr>
<tr>
<td>15.15 - 16.00</td>
<td>Jasmene Kaur (former student) École Polytechnique - ENSTA ParisTech - CNRS Attosecond control of relativistic plasma mirrors</td>
<td>Verónica Ahufinger (Autonomous Univ. of Barcelona) Supersymmetry and topology in coupled optical waveguides</td>
<td>Verónica Ahufinger (Autonomous Univ. of Barcelona) Supersymmetry and topology in coupled optical waveguides</td>
<td>lunch</td>
</tr>
<tr>
<td>16.00 - 16.30</td>
<td>coffee break</td>
<td>coffee break</td>
<td>coffee break</td>
<td>coffee break</td>
</tr>
<tr>
<td>16.30 - 16.45</td>
<td>Sergio Sáez South Europe Cluster in Photonics (SECPhO) Look inside</td>
<td>DEOP Ruano Juan &quot;Control of energy absorption using electromagnetic fields: from molecules to nanoparticle&quot;</td>
<td>DEOP Ruano Juan &quot;Control of energy absorption using electromagnetic fields: from molecules to nanoparticle&quot;</td>
<td></td>
</tr>
<tr>
<td>16.45 - 17.00</td>
<td>MEDINA David &quot;Silicon photonics for quantum applications&quot;</td>
<td>HUO Ran &quot;Single Molecule Diffusion of Integrin Receptors in the Presence of Mechanical Force&quot;</td>
<td>HUO Ran &quot;Single Molecule Diffusion of Integrin Receptors in the Presence of Mechanical Force&quot;</td>
<td></td>
</tr>
<tr>
<td>18.00 - 18.15</td>
<td>Free time social interaction</td>
<td>Kevin Schädler (former student) (Lead Optical Engineer at Near Space Labs) From Nano to Near Space: My Path in Photonics</td>
<td>Kevin Schädler (former student) (Lead Optical Engineer at Near Space Labs) From Nano to Near Space: My Path in Photonics</td>
<td></td>
</tr>
<tr>
<td>18.15 - 18.30</td>
<td>Free time social interaction</td>
<td>Free time for the students</td>
<td>Free time for the students</td>
<td></td>
</tr>
<tr>
<td>18.45 - 20.00</td>
<td>Free time for the students</td>
<td>Consortium Meeting (only for the consortium members)</td>
<td>Consortium Meeting (only for the consortium members)</td>
<td></td>
</tr>
<tr>
<td>20.00-22.00</td>
<td>dinner</td>
<td>dinner</td>
<td>dinner</td>
<td>dinner</td>
</tr>
</tbody>
</table>
Sitges – Barcelona

Sitges is a Mediterranean coastal town, located in the Garraf area in the province of Barcelona, in Catalonia, Spain. Sheltered by the Garraf mountains and due to its geographical position in the Mediterranean, Sitges has a warm "micro-climate" that makes it possible to enjoy outdoor activities almost every day of the year.

Location for the Spring School: Hotel Sunway Playa Golf

The Hotel is located on the promenade of Sitges, in front of the sea.
http://en.sunway.es/hotel-sunway-playa-golf-in-sitges/
Address: Paseo Maritimo 92-94, Sitges
Sunway Arizona Apartments

Sunway Arizona Apartments, with full kitchens and all the facilities.
https://sunway.es/blockPrices/ARI-apartments-sunway-arizona

**Address:** Carrer d'Anselm Clavé, 35-25, 08870 Sitges, Barcelona

Details: 2 bedrooms with 2 single beds each (0.90m), a living room with a double sofa bed (1.35m), 2 bathrooms, kitchen and balcony-terrace. The kitchen includes a refrigerator and a natural gas hob with an oven. It does not have a microwave. It does not have air conditioning/heating. Bath towels and bed linen are included.

**Área:** 60 m²  
**Capacity:** 2-6 pax
TO GET FROM THE AIRPORT TO SITGES YOU CAN CHOOSE FROM THE FOLLOWING TRANSPORT SERVICE

Train.

Spanish railway company Renfe [www.renfe.es](http://www.renfe.es) offers its services from the Airport Terminal 2 to Sitges with one transfer.

If you landed in the Terminal 2 you only have to walk about 200m/656ft to get to the train stop through the airport covered corridor.

If you landed in the Terminal 1, you have to take a free shuttle to get to the Terminal 2 and then take a train.

Spanish railway network is divided geographically in several zones, depending on the distance you have to run to get to your destination. From the airport to Sitges you have to cross 3 zones, therefore you have to buy a single ticket from Airport to Sitges or you can consider purchasing a “T-10” ticket for 10 trips in 3 zones, if you are going to use train during your stay when going to Barcelona for sightseeing. T10 tickets are quiet more economic than one/2 way tickets.

Once you bought a ticket you have to take a train and get to the station Prat de Llobregat (about 5-7 mins away). In Prat de Llobregat you have to transfer to the train line R2 Sud with stop in Sitges.

For further information about time tables and seasonal changes, please visit railway company web: [www.renfe.es](http://www.renfe.es)

Bus.

Bus Garraf company offers its services from the airport Terminal 1 to Sitges without transfers. The line you have to take is Barcelona-Vilanova i la Geltru with stop in Sitges. In Sitges there are 5 Garraf Bus stops, you can stop in “La Masia” that is 15 mins walking from the Hotel Playa Golf & SPA – Arizona Apartments.

There are direct buses from Barcelona Airport to Sitges. The Bus Garraf departs from outside Terminal 1 (T1).

If your flight arrives at T2, you will need to take the free shuttle service from T2 to T1. Once you are at T1, you can take the coach to Sitges. For details of Bus Garraf bus timetables and ticket prices, please see the website. Click on ‘Timetable Finder’ and then type in ‘Airport’ to ‘Sitges-La Masia’. The timetables offered are Monday to Friday, Saturday, Sunday or night.

Please, consult bus time tables and ticket price on the company web as the time table varies depending on week day and season: [https://www.busgarraf.cat/en/horaris/](https://www.busgarraf.cat/en/horaris/)
To get from Sitges city center to Hotel Playa Golf for check-in:

**Public Bus**

Once you get to Sitges city center by train or bus, you can take a public bus line L2 with destination Terramar to get to the Hotel Playa Golf for check-in. The bus stop is on the right hand side when exit from the train station. Please, find the exact location following the link: https://www.google.es/maps/place/Sitges/@41.2390671,1.8096937,15z/data=!4m5!3m4!1s0x0:0xbbe57086c84e237e8m213d41.2390671!4d1.8096937

The L2 bus time table is the following:
- Weekdays from 06:45am till 8:45pm every 30 mins
- Weekends and holidays from 08:45am till 08:45pm every 30 mins
- The bus departs from Sitges railway station stop every hour at xx:15 min and xx:45 min.
- You can pay in cash directly in the bus. Approximate price is €1.50 per way, subject to update annually. Bear in mind that the driver usually accepts only the bills up to €10.00.
- Another way of payment is T-10 ticket previously mentioned, in this case 1 zone ticket is enough to move through the city. You can buy T-10 ticket for 1 zone at the railway station.
- When hop off from the bus you only have to walk about 3 mins (260m/853ft) to get to the Hotel Playa Golf & SPA.

**Taxi**

Public taxi stop is located on the right hand side when exit from the train station or another one, just 25m away from MonBus stop “Parc Can Robert”.
- The approximate price for taxi from city center to Hotel Playa Golf is €8-€9 + luggagesupplement. At night time there is an additional supplement of €2.

The client can take a taxi from the airport to Sitges. Taxis are located in front of the terminals. The approximate price is between 65-70.- €.
TO GET FROM THE SANTS STATION TO SITGES YOU CAN CHOOSE FROM THE FOLLOWING TRANSPORT SERVICE

Train + Public Bus (Sitges)

Spanish railway company Renfe [www.renfe.es](http://www.renfe.es) offers its services from the Sants Station to Sitges. At Sants Station you can take the train R2S - Direction - Sant Vicenç De Calders, with stop in Sitges village.

For further information about time tables and seasonal changes, please visit railway company web: [www.renfe.es](http://www.renfe.es)

Public Bus (Sitges)

Once you get to Sitges city center by train or bus, you can take a public bus line L2 with destination Terramar to get to the Hotel Playa Golf for check-in. The bus stop is on the right hand side when exit from the train station. Please, find the exact location following the link: [https://www.google.es/maps/place/Sitges/@41.2390671,1.8096937,15z/data=!4m5!3m4!1s0x0:0xbbe57086c858e237e!8m2!3d41.2390671!4d1.8096937](https://www.google.es/maps/place/Sitges/@41.2390671,1.8096937,15z/data=!4m5!3m4!1s0x0:0xbbe57086c858e237e!8m2!3d41.2390671!4d1.8096937)

The L2 bus time table is the following:
Weekdays from 06:45am till 8:45pm every 30 mins
Weekends and holidays from 08:45am till 08:45pm every 30 mins

The bus departs from Sitges railway station stop every hour at xx:15 min and xx:45 min. You can pay in cash directly in the bus. Approximate price is €1.50 per way, subject to update annually. Bear in mind that the driver usually accepts only the bills up to €10.00.

Another way of payment is T-10 ticket previously mentioned, in this case 1 zone ticket is enough to move through the city. You can buy T-10 ticket for 1 zone at the railway station.

When hop off from the bus you only have to walk about 3 mins (260m/853ft) to get to the Hotel Playa Golf & SPA.

Taxi

The client can take a taxi from the Sants Station to Sitges. Taxis are located in front of the Station. The approximate price is between 60-65 €.
Learn about all the requirements before, during and after your trip to Spain.

To protect your health, the Government of Spain has implemented a series of measures to protect the general public’s health, including health control of passengers upon arrival in Spain.

https://www.spth.gob.es/