

# AMCOS

Conference and Tutorial on  
Analysis and Modelling of Complex Oscillatory Systems

March 19-23, 2018  
**PRBB, Barcelona**



Universitat  
Pompeu Fabra  
Barcelona



The electronic version of this booklet can be found at:  
<https://amcosconference.com/>

The open-source L<sup>A</sup>T<sub>E</sub>X template, AMCOS\_booklet, used to generate this booklet is  
available at [https://github.com/maximelucas/AMCOS\\_booklet](https://github.com/maximelucas/AMCOS_booklet)

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# About

This is a generic version of the real AMCOS conference booklet for which this L<sup>A</sup>T<sub>E</sub>X template was generated. All information about the use and distribution of this template, and all related codes, can be found at [https://github.com/maximelucas/AMCOS\\_booklet](https://github.com/maximelucas/AMCOS_booklet).

## AMCOS

The conference on Analysis and Modeling of Complex Oscillatory Systems (AMCOS) aims to bring together theoretical and experimental researchers working on the state of the art in the field of complex oscillatory systems.

The main topics of the conference comprise both (a) the modeling of complex systems and the emergence of collective behavior, as well as (b) the analysis of complex data sets in order to infer the underlying structure and functionality of networks. Particular focus will be put on oscillatory phenomena in neuroscience.

## COSMOS

The AMCOS Conference is organized by the Early Stage Researchers (ESRs) of the Marie Curie Initial Training Network led by Arkady Pikovsky of Potsdam University. COSMOS trains 15 ESRs at the interface between Physics, Applied Mathematics, and Life Sciences, integrating theoretical and data-driven methods, in 7 universities across Europe.

## Organizing committee

Gloria Cecchini	Marco Faggian	Aleksandra Pidde
Rok Cestnik	R. Janis Goldschmidt	Bastian Pietras
Pau Clusella	Marc Grau Leguia	Eero Satuvuori
Nicolás Deschle	Maxime Lucas	Çağdaş Topçu
Federico Devalle	Irene Malvestio	Clément Zankoc

# Timetable

CT: Contributed Talk, IS: Invited Speaker, KL: Keynote Lecture, IT: Invited Talk.

## Tuesday, 20 of March

8:30–9:00	<b>Registration</b>		
9:00–9:10	<b>Welcome remarks</b>		
9:10–10:05	KL	<b>Leon Tremblay</b> Montreal, Canada	Title of a keynote lecture
10:05–10:30	CT	<b>Marc Fournier</b> Brussels, Belgium	Title of contributed talk
10:30–11:00	<b>Coffee</b>		
11:00–11:40	IS	<b>Hiroya Sato</b> Tokyo, Japan	Title of invited speaker
11:40–12:45	CT	<b>Marc Smith</b> Brussels, Belgium	Title of contributed talk with math and paragraphs
12:45–14:00	<b>Lunch</b>		
14:00–14:30	CT	<b>Marc Rodriguez</b> Barcelona, Spain	Title of contributed talk with math and references
14:30–15:05	IS	<b>Hiroya Sato</b> Tokyo, Japan	Title of invited speaker
15:05–15:30	<b>Coffee</b>		
15:30–16:00	CT	<b>Marc Jansen</b> Amsterdam, The Netherlands	Title of contributed talk and references and a figure
16:00–17:10	IS	<b>Hiroya Sato</b> Tokyo, Japan	Title of invited speaker
17:10–19:30	<b>Poster session with Wine &amp; Cheese</b>		

## Wednesday, 21 of March

9:00-9:40	IS	<b>Hiroya Sato</b> Tokyo, Japan	Title of invited speaker
9:40-10:10	CT	<b>Marc Fournier</b> Brussels, Belgium	Title of contributed talk
10:10–12:45	IS	<b>Hiroya Sato</b> Tokyo, Japan	Title of invited speaker
10:45–11:10	<b>Coffee</b>		
11:10–11:40	CT	<b>Marc Jansen</b> Amsterdam, The Netherlands	Title of contributed talk and references and a figure
11:40–12:10	CT	<b>Marc Jansen</b> Amsterdam, The Netherlands	Title of contributed talk and references and a figure
12:10–12:45	IS	<b>Hiroya Sato</b> Tokyo, Japan	Title of invited speaker
12:45–14:00	<b>Lunch</b>		
14:00–14:30	CT	<b>Marc Fournier</b> Brussels, Belgium	Title of contributed talk
14:30-15:00	CT	<b>Marc Fournier</b> Brussels, Belgium	Title of contributed talk
16:30–18:00	<b>Excursion</b>		
20:00	<b>Conference Dinner</b>		

## Thursday, 22 of March

9:00 – 9:40	IS	<b>Hiroya Sato</b> Tokyo, Japan	Title of invited speaker
9:40–10:20	IS	<b>Hiroya Sato</b> Tokyo, Japan	Title of invited speaker
10:20–10:45	IT	<b>Franck Schmidt</b> Munich, Germany	A Special Talk about Diversity in Science
10:45–11:10	<b>Coffee</b>		
11:10-11:40	CT	<b>Marc Jansen</b> Amsterdam, The Netherlands	Title of contributed talk and references and a figure
11:40–12:35	KL	<b>Leon Tremblay</b> Montreal, Canada	Title of a keynote lecture
12:35–12:45	<b>Poster Prize &amp; Conclusion</b>		
12:45–14:00	<b>Lunch</b>		

# List of Abstracts – Talks

**Tuesday 20th**

**Title of a keynote lecture**

**L. Tremblay**

KL

McGill University, Montreal, Canada

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## Title of contributed talk

**M. Fournier<sup>1</sup>, D. Dupont<sup>1,2,3</sup>**

<sup>1</sup> Physics Department, Université Libre de Bruxelles, Brussels, Belgium

<sup>2</sup> Physics Department, Lancaster University, Lancaster, UK

<sup>3</sup> CSDC, University of Florence, Florence, Italy

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## Title of invited speaker

H. Sato

IS

Department of Physics, Tokyo Institute of Technology, Tokyo, Japan

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## Title of contributed talk with math and paragraphs

**M. Smith<sup>1</sup>, D. Dupont<sup>1,2,3</sup>**

<sup>1</sup> Physics Department, Université Libre de Bruxelles, Brussels, Belgium

<sup>2</sup> Physics Department, Lancaster University, Lancaster, UK

<sup>3</sup> CSDC, University of Florence, Florence, Italy

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## Title of contributed talk with math and references

**M. Rodriguez<sup>1</sup>, D. Dupont<sup>1,2,3</sup>**

<sup>1</sup> Physics Department, Université Libre de Bruxelles, Brussels, Belgium

<sup>2</sup> Physics Department, Lancaster University, Lancaster, UK

<sup>3</sup> CSDC, University of Florence, Florence, Italy

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- [2] Capone C., Rebollo B., Muñoz A., Illa X., Del Giudice P., Sanchez-Vives M.V., Mattia M. (2017). Cereb Cortex, 28:1-17.

## Title of contributed talk and references and a figure

**M. Jansen<sup>1</sup>, D. Dupont<sup>1,2,3</sup>**

<sup>1</sup> Physics Department, Université Libre de Bruxelles, Brussels, Belgium

<sup>2</sup> Physics Department, Lancaster University, Lancaster, UK

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**Thursday 22nd**

## A Special Talk about Diversity in Science

F. Schmidt

IT

Physics Department, Technical University of Munich, Germany

One of the most consistent global trends in science over the last decades concerns the move from individual efforts of scientists to collaborative projects among several researchers. Across most scientific disciplines the solitary researcher has been replaced by collective efforts between individuals often distributed across organizations and countries. Accompanying this trend are efforts to understand the “ingredients” of excellent research teams. Social sciences, but also social psychology as well as social networks analysis have all contributed to the understanding of successful collaborations. This contribution will review the elements of excellent teams as well as highlighting how bias and stereotypes can undermine optimal group performance. The presentation will be rounded up by examples how diversity not only affects research collaboration but also improves the quality of the produced science and engineering knowledge.

# List of Posters

## Tuesday Session

### A random abstract title

**J. Doe<sup>1</sup>, M. Smith<sup>2,3</sup>**

<sup>1</sup> Faculty of Science and Technology, Bournemouth University, UK

<sup>2</sup> Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona, Spain

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# List of Participants

John1 Doe1	Barcelona, Spain
John2 Doe2	Barcelona, Spain
John3 Doe3	Barcelona, Spain
John4 Doe4	Barcelona, Spain
John5 Doe5	Barcelona, Spain
John6 Doe6	Barcelona, Spain
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John28 Doe28	Barcelona, Spain
John29 Doe29	Barcelona, Spain

# Useful Information

**Talks** will be held at the **Conference Hall-Auditorium** of PRBB. It is situated on the first floor of the central courtyard and has independent access from the rest of the building (through stairs located at the ground floor, main entrance of PRBB).

**Coffee breaks and lunches** will be offered in the half-covered terrace in front of the main entrance of the conference hall.

The **poster session** will be held on Tuesday and Wednesday night on the **ground floor** of the PRBB.

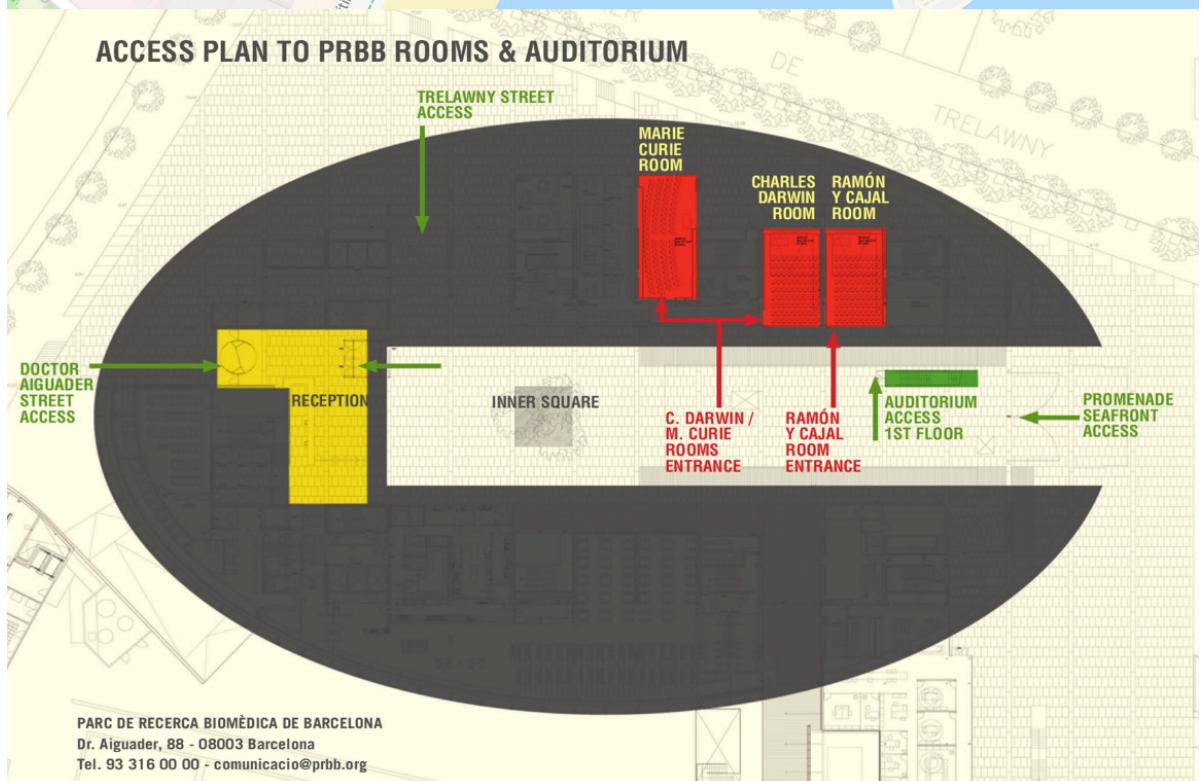
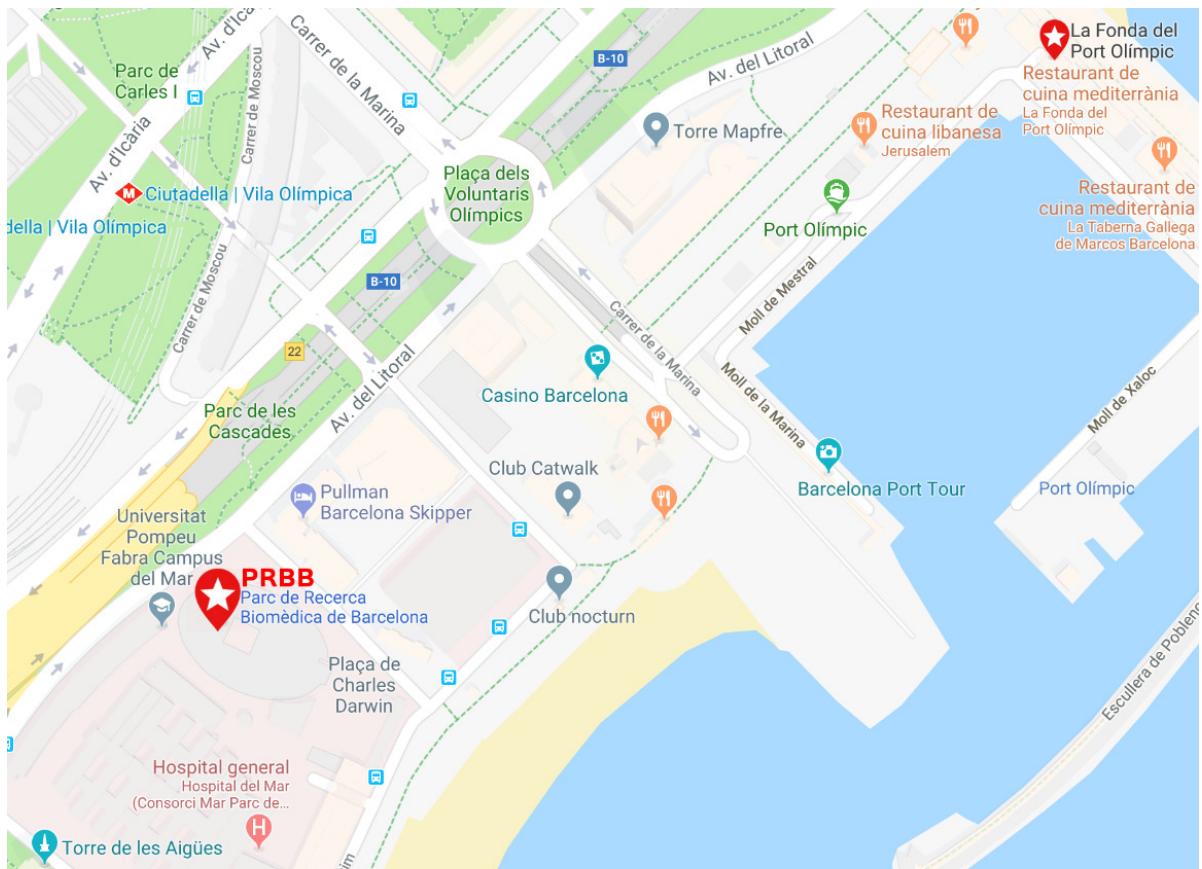
Wi-Fi will be available during the conference. The PRBB also provides access to an eduroam network.

The **conference dinner** will be held at the "The best restaurant", at Some Street, 39, Barcelona.

## How to get to the PRBB?

The PRBB building overlooks the Ronda del Litoral and is next to the twin towers of the Olympic Village: Torre Mapfre and Arts Hotel. The address is Carrer del Dr. Aiguader, 88, 08003 Barcelona, Spain. and can be reached by:

- **Subway:** yellow line, L4, station Ciutadella/Vila Olímpica,
- **Bus:** lines V21, 14, 36, 41, 45, 59, 71, 92, D20,
- **Tram:** line 4, stop Vila Olímpica.



# Partner Institutions and Sponsors

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## Sponsors

