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2022-T1 MATHEMATICAL MODELING OF ORGANIZATION IN LIVING MATTER

Mathematical modeling of organization in living matter, Paris

IHP-Darboux
Amphitheater Darboux
11, Rue Pierre et Marie Curie
75005 Paris

INSCRIPTION

Thematic trimester program at Institut Henri Poincaré, Paris

Mathematical modeling of organization in living matter January 10th to April 1st, 2022.

Abstract: Despite the immense progresses made over the last decades in mathematical biology, the multifaceted nature of biological processes still represents an enormous challenge for mathematical modeling. Technological advances lead to many new experimental observations, which can then be used to improve the accuracy of modeling. As a result, sophisticated mathematical methods have become crucial for addressing the key questions and paradigms in diverse biological systems, for making predictions of the effects of system perturbations and for their control.

URL de la page : <https://www.ihp.fr/fr/agenda/mathematical-modeling-organization-living-matter-paris>

Courses: Available on line

Next courses: March 21st at Jussieu. Room 15-16-309.

Odo Diekmann: Mathematical Epidemiology of Infectious Diseases **Course material** Monday 10am to Noon.

Past

course: [Jan.17th](#) [Jan.24th](#) [Jan.31st](#) [Feb.7th](#) [Feb.14th](#) [Feb.21st](#) [Mar.7th](#) [Mar.14th](#) [Mar.21st](#)

King Yeung Lam: Reaction-diffusion equations and the evolution of dispersal **Abstract** Monday 2pm to 4pm -(March 21st at Jussieu). Lecture notes, homeworks and slides available [HERE](#)

Past

course: [Jan.17th](#) [Jan.24th](#) [Jan.31st](#) [Feb.7th](#) [Feb.14th](#) [Feb.21st](#) [Mar.7th](#) [Mar.14th](#) [Mar.21st](#)

Workshops :

Jan. 10th to 14th (IHP, Paris): [Tissue growth and movement](#) **Video here**

Jan. 31st to Feb. 4th (IHP, Paris): [Mathematical modeling and statistical analysis in neuroscience](#)

March 21st to 25th (IHP, Paris): [Mathematical models in ecology and evolution](#)

Meetings :

February 7th to 9th (IHP, Paris): [Mathematical epidemiology](#)

February 14th to 16th (Jussieu, Paris): [Math. challenges in modelling population dynamics](#)

March 7th to 9th (IHP, Paris): [Inverse problems in biology](#)

Post-school: March 28th to April 1st: [CIRM Closing School \(Marseille\)](#)

Comité d'organisation scientifique :

- Luis Almeida
- Vincent Calvez
- Marie Doumic
- Benoît Perthame
- Patricia Reynaud-Bouret

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75231 Paris Cedex 05

HORAIRES

L'institut :

- lundi au vendredi de 8h30 à 18h,
- fermé les jours fériés.

Le musée - Maison Poincaré :

- lundi, mardi, jeudi et vendredi de 9h30 à 17h30,
- samedi de 10h à 18h,
- fermé le mercredi et le dimanche.