



## PROGRAMME, PAST

### T3-2023 Recent trends in computer algebra

**Start date** : 18 September 2023 - **End date** : 11 December 2023

September 18 to December 11, 2023

Organizers:  
 Alin Bostan (Inria, Saclay), Mark Giesbrecht (University of Waterloo)  
 Christoph Koutschan (RICAM, Linz), Mari Mišina (STU, Bratislava)  
 Mahabadi Sayar (Sorbonne Université), Bruno Salvy (Inria, Lyon)  
 Gilles Villard (CNRS, Lyon)

**Recent Trends in Computer Algebra**  
 Thematic program with courses, workshops and topical days

**CIRM Preparatory School**  
 March 6-10, 2023  
 Fundamental Algorithms and Algorithmic Complexity  
 Special week: September 18-22  
 Workshop: September 25-29

**Geometry of Polynomial System Solving, Optimization and Topology**  
 Special week: October 9-13  
 Workshop: October 16-20  
 Topical days: October 23-24

**Computer Algebra for Functional Equations in Combinatorics & Physics**  
 Special week: Nov. 27-Dec 1  
 Workshop: December 4-8  
 Topical day: December 11

Program coordinated by the Centre Emile Borel (CEB) at IHP (Paris) and also accessible online.  
 Participation of postdocs and PhD students is strongly encouraged.  
 Registration is free however mandatory.

Scientific program and registration on: <https://indico.math.cnrs.fr/category/666>  
 Deadline for financial support: March 15<sup>th</sup>, 2023  
 Contact: [RTA2023-Parade@ihp.fr](mailto:RTA2023-Parade@ihp.fr)

CEB organization assistant: Sofia Miskovic  
 CEB manager: Sylvie Chénier  
[www.ihp.fr](http://www.ihp.fr)

With support by:

URL of the page: [https://www.ihp.fr/en/news-research-activities/t3-2023-recent-trends-computer-algebra&is\\_pdf=true](https://www.ihp.fr/en/news-research-activities/t3-2023-recent-trends-computer-algebra&is_pdf=true)

### Organisers:

A. Bostan, M. Giesbrecht, C. Koutschan, M. Mishna, M. Safey El Din, B. Salvy, G. Villard

### Administrative, financial and logistic organisation:

Sofiia Minasian

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### Scientific programme:

Detailed programme: <https://indico.math.cnrs.fr/category/588/>

#### 1. Fundamental algorithms and algorithmic complexity

- Special week: September 18-22
- Workshop: September 25-29

#### 2. Geometry of polynomial system solving, optimization and topology

- Special week: October 9-13
- Workshop: October 16-20
- Topical days: October 23-24

#### 3. Computer algebra for functional equations in combinatorics and physics

- Special week: November 27-December 1
- Workshop: December 4-8
- Topical day: December 11

carmin.tv

**Videos of the trimester are now available on Carmin.tv**



### **CIMPA-CARMIN programme:**

Through the CIMPA-CARMIN programme the organisers wish to fund, with the support of the Labex CARMIN, the CIMPA and IHP, the participation of several young mathematicians from developing countries to the activities of the trimester.

Young scientists (master students soon looking for a PhD, PhD students, postdocs) meeting those criteria and interested in the topics are much encouraged to apply for a support to participate on [the CIMPA web page](#).



### **INSTITUT HENRI POINCARÉ**

Sorbonne Université / CNRS  
11 rue Pierre et Marie Curie  
75231 Paris Cedex 05

### **TIMETABLE**

The institute:

- Monday to Friday from 8:30am to 6pm,
- closed on public holidays.

The museum - Maison Poincaré :

- Monday, Tuesday, Thursday and Friday from 9:30am to 5:30pm,
- Saturday from 10am to 6pm,
- closed on Wednesday and Sunday.