Lectures Sophie Kowalevski

In 2020, with **Susanna Zimmermann** (Angers), we have tried to define actions to promote gender equality in mathematics. Among the ideas that we have discussed and tried to implement, the **Lectures Sophie Kowalevski** have an important role. My personal motivation follows reading Michèle Audin's remarkable work on the life and work of Sophie Kowalevski in which I was particularly interested when I returned from a long stay at Mittag-Leffler (early 2019). I was indeed deeply impressed by the story of this brilliant mathematician, told by the librarian of the Institute. The Lectures help preserving the memory of this exceptional woman, whom we can hope is always a source of inspiration for the students of our time. Let us present our idea, which is also described here

https://femmes-et-maths.fr/2021/05/01/lectures-sophie-kowalevski/

The lectures are intended to (first year) Master's students and they target particularly female students from French universities. The registration is free and mandatory. Everyone is welcome. The number of participants is limited to 50. The lectures are given in French. They take place **every year** in Angers (at least for the first sessions). Each session lasts 3 days in Spring. Depending on the success and the funding, one could also imagine to go from university to university (in memory of the travels of Sophie Kowalevski). They are given by **two women mathematicians** in Analysis/Probability and Algebra/Geometry. The lectures must be accessible to motivated students having a standard background (at the end of a first year of Master). Each lecture is an introduction to subjects close to current research or to subjects that all Mathematics departments are not always able to offer their students.

Each lecture lasts about 8h (spread on 3 days), and each student has the possibility to follow the lectures on Analysis **and** Geometry. We also want to offer a possibility of **mentoring** (with a committee of mathematician godmothers). **The travel and accomodation costs are covered for (at least) 30 participants, with a priority for women.** In other words, if x women apply, at least $\min(30, x)$ will be funded. The cost is about **15000 euros**. The first edition of the Lectures took place physically from May 31 to June 2, 2021

The lecturers, students and godmothers encouraged us to repeat the experience each year. Our initiative was welcomed and supported by the **gender equality commission of the University of Angers** which offers us logistical support. During a discussion with a member of this commission, we had the idea to **open a one-hour talk of the Lectures to the general public**. It is given by a historian or a sociologist, and it is related to the place of women in science (and in particular in mathematics).

Lectures
SOPHIE KOWALEVSKI

Masterclass M1

3-5 mai, Université d'Angers

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Clotilde FERMANIAN KAMMERER
(Université Paris-Est)

GÉOMÉTRIE TORIQUE ET SINGULARITÉS

Liana HEUBERGER
(Université d'Angers)

Inauguration par Michèle AUDIN (Université de Strasbourg)

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Masterclass M1

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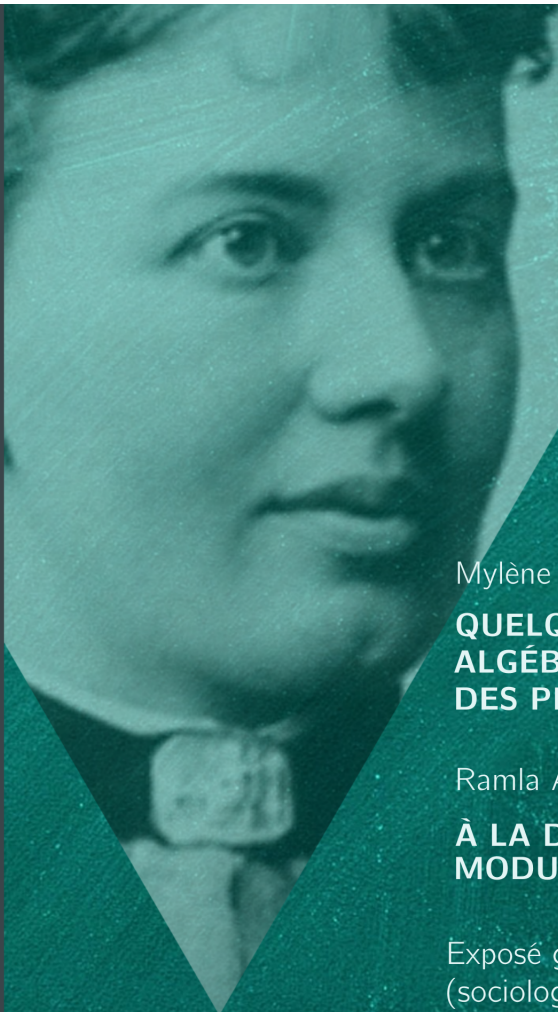
Lectures

SOPHIE KOWALEVSKI

Masterclass M1

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Université d'Angers

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