

Master 2
Fundamental Mathematics
Rennes 2021-22

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Tasks of the second semester

1. Lectures of the second semester
2. Internship
3. Search for a PhD

Lectures of the second semester

14 courses structured in 3 parcours :

Randomness, algebra & geometry, analysis & applications.

<https://math.univ-rennes1.fr/master-2-maths-fundamentales>

1. Choose **at least two courses**
2. No thematic constraint
3. Possibility to attend **more courses** (recommended) while keeping only **best grades**
4. Possibility to attend **M2 lectures in Nantes** with travel expenses payback and compatible schedule

Internship

- ▶ At least from April to June.
- ▶ Internship grants **before** internship conventions
- ▶ Form and type quite free
(literature or research)
- ▶ Defense in presence of advisors at the end of June
before **M2 jury of July**, otherwise jury in October.

Search for a PhD

- ▶ Find a **PhD advisor** and a **PhD grant**.
- ▶ Ideally, the PhD is coupled to the internship.
- ▶ There are **many kinds of grants**
 - ▶ Academic institutions (Universities, research units,...)
 - ▶ private companies (CIFRE);
 - ▶ Labex (CHL,...);
 - ▶ national research institutes (INRIA, CNRS,...);
 - ▶ personal grants (ANR, ERC,...);
 - ▶ regions;
 - ▶ abroad (Germany, Italy, UK,...)
 - ▶ ...

Search for a PhD (continued)

- ▶ Visit web pages of **math departments**

IRMAR (Rennes),
LMJL (Nantes),

LMBA (Brest-Vannes),
LAREMA (Angers),...

For IRMAR visit

<https://irmar.univ-rennes1.fr/propositions-de-sujets-de-these-lirmar>

- ▶ **Involve faculty members** (teachers and chairs)
as **guides** and as scientific **guarantors**
for here and elsewhere!

Other activities

- ▶ **Doctoral courses** in Rennes (often in February-March)
<https://irmar.univ-rennes1.fr/cours-doctoraux-lirmar>
- ▶ **PhD students seminar**, in Rennes, all year long
- ▶ **The days Louis Antoine**, two-days Masterclasses, in Rennes
Expenses payback for students from Nantes (and elsewhere)
10-11th March *Surfaces minimales & variétés hyperboliques*
- ▶ **Schools** over 1 or 2 weeks, in the CHL Thematic semester
In 2022, *Machine Learning and Artificiel Intelligence*
- ▶ **5 minutes Lebesgue** all year long - to be announced

An important task for today

You need to choose your courses today. Please fill out and sign the form and return it to me after the reunion.

Thank you for your attention !