

2 weekly

Exercises
Number of
positions

MATH-416	Analysis on groups				
	Monod Nicolas				
Cursus		Sem.	Type	Language of teaching Credits Session	English
Ingmath		MA1, MA3	Opt.		Liigiisii
Mathématicien		MA1, MA3	Opt.		5 Winter
				Semester Exam Workload	Fall Oral 150h
				Weeks Hours Courses	14 4 weekly 2 weekly

Summary

We study analytic phenomena on groups, notably paradoxical decompositions and fixed point properties.

Content

Paradoxical decompositions Fixed point theorems Harmonic analysis

Learning Prerequisites

Recommended courses

Topology I, II

Learning Outcomes

By the end of the course, the student must be able to:

• The students will demonstrate a deep understanding of the concepts introduced in the lecture. They will understand paradoxicality. They will prove fundamental results. Rigor is a paramount skill to be demonstrated and creativity a key asset to be displayed.

Teaching methods

Ex cathedra lecture and exercises in the classroom

Expected student activities

- Follow the lectures
- Attend the exercise sessions
- Attempt to solve all exercises and write up the result of these attempts
- Work over the lecture

Assessment methods

Exam oral

Dans le cas de l'art. 3 al. 5 du Règlement de section, l'enseignant décide de la forme de l'examen qu¿il communique aux étudiants concernés.

Supervision

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Office hours Yes
Assistants Yes
Forum No

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