

	Nguyên Hoài-Minh				
Cursus		Sem.	Туре	l anguage of	English
Ingmath		MA2, MA4	Opt.	teaching	Linglish
Mathématicien		MA2	Opt.	Credits Session	10 Summer
				Semester Exam Workload Weeks Hours Courses Exercises Project Number of positions	Spring Written 300h 14 8 weekly 4 weekly 2 weekly 2 weekly

Summary

We discuss various inequalities related to the Sobolev, Poincare inequalities et the trace theory.

Content

Poincare's inequality Sobolev's inequality. Gagliardo Nirenberg's inequality. Caffareli, Kohn, Nirenberg's inequality. Trace theory Applications.

Keywords

Inequalities, trace theory.

Learning Prerequisites

Required courses Analyse III + IV Parabolic and hyperbolic PDEs

Important concepts to start the course Sobolev spaces

Learning Outcomes

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

- Inequalities
- Use inequalities
- trace theory

Teaching methods

Course + seminars



Written

Supervision

Office hours	No
Assistants	Yes
Forum	No