

MATH-802 Optimization, interpolation and modular forms

Viazovska Maryna				
Cursus	Sem.	Туре	Language of	English
Mathematics		Opt.	teaching	English
			Credits	2
			Session	
			Exam	Project report
			Workload	60h
			Hours	42
			Courses	14
			Exercises	6
			Project	22
			Number of	
			positions	

Frequency

Only this year

Remark

24-28.08.2020

Summary

This summer school will explore basic concepts as well as recent developments in optimization, interpolation, and modular forms. There will be short courses as well as several standalone lectures by invited researchers. The school is aimed toward masterâ##s and PhD students and early-stage postdocs.

Content

Main lectures:

Henry Cohn (MIT): Packing, coding, and ground states David de Laat (TU Delft): Semidefinite programming hierarchies for packing and energy minimization Danylo Radchenko (ETH Zürich) : Modular forms and their applications Frank Vallentin (Universität zu Köln): Optimization for lattices, packings, and coverings

Assessment methods

Project report

Resources

Websites

• https://www.epfl.ch/labs/tn/number-theory-tn/optimistic-summer-school/