

# Fine-Grained and Parameterized Complexity

MATH 683 course logistics



**EPFL**

# Links

All materials on the website

<https://www.epfl.ch/labs/disopt/teaching/spring-2021-courses/fine-grained/>

All announcements via the mailing list

[fine-grained-2021-subscribe@listes.epfl.ch](mailto:fine-grained-2021-subscribe@listes.epfl.ch)

Questions via Piazza (or just send me an email)

<https://piazza.com/epfl.ch/spring2021/math683>

Zoom link always the same

- Shall I re-send before each meeting?

# Schedule

## Tuesdays 10:15-11:45 – Open problem sessions

- We'll try to prove new theorems!
- Optional (does not affect your grade)
- Come and see for yourself – next Tuesday, March 2nd

## Thursdays, 9:15-12:30 – Exercise sessions + lectures/Q&A

- Flexible timing, breaks as needed

## At the end of each week you'll find on the website:

- Homework problems, for you to solve and present during the next exercise session
- Reading and/or watching material, which we'll recap during lecture/Q&A
  - *Flipped classroom* (sort of)

Your grade =

50 % homework  
+ 50 % presentation

(No exam)

# Homework a.k.a. Problem Sets

- 1 problem = 1 point
- You **declare** which problems you can solve
- **Everyone who declared** a problem **get a point** for it
- **Selected person presents** it to the class
- Please **play fair**
  - Declare only problems you thought through, do not try to solve ad-hoc
  - Gross violations may result in negative points
- **Not sure about your solution? Declare with ‘?’**
  - You get a point only if asked to present, but no negative consequences of failing
- You are free (and encouraged!) to **collaborate** with others on the problems, and **use any resources**
  - You just need to understand the solution and be able to present it by yourself during the live session
- **Cannot attend** a live session, but want points? Send an email with **solutions in pdf** (by Thu, 9:15!)
- Each problem set comes with two numbers – points for grade 4.0 and for grade 6.0
  - The final thresholds for grades 4.0 and 6.0 are respective sums over all problem sets
  - Thresholds for remaining grades scale linearly

# Presentations

Details to come in 3-4 weeks

Either read a paper, or tackle an open problem

Two presentations: middle of the semester (plan), and at the end (results)

Can change topic/type during semester