



MINICOURSE ON **CONVEX GEOMETRY**

July 5 – 16, 2021

This mini-course covers the basics of convex geometry with a focus on combinatorial and algebraic structures. Optimization serves as motivation. Lectures and exercise sessions on the fundamentals lead into problem-solving sessions that explore research questions.

Currently all sessions are planned to be virtual. Familiarity with basics on convex sets, discrete geometry, and algebraic methods is a plus, but will not be assumed. Fundamentals will be covered in the lectures. This includes introductions to:

- Convex optimization
- Facial structure of convex bodies
- Non-polyhedral convex bodies such as spectrahedra

Participants will be given an opportunity to present research questions they are interested in or working on.

SCIENTIFIC ORGANIZERS

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The link to the virtual event will be made available via email to the registered participants in due time.

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online registration via www.mis.mpg.de/congeo21