

LMS internal discussion

Architected materials and microstructures

Moderator: Kostas Danas

Speakers: Kostas Danas, Basile Audoly, Andrei Constantinescu

Date and Time: December 04, 2025 (2 – 3 pm)

Venue: Amphi 104 (Pole Meca)

Abstract

This internal seminar will be presented by Basile Audoly, Andrei Constantinescu and Kostas Danas, moderated by Kostas.

Basile will discuss recent theoretical advances on the effects of gradients in lattice and truss structures. **Andrei** will discuss optimization and numerical geometry design techniques for periodic and disordered materials. **Kostas** will discuss some aspects on random and periodic architectures including a wide number of experiments and numerical simulations.

The seminar will conclude with a general discussion on open questions and future research directions in the field of architected materials and microstructures.

Format

Each speaker will have 10 minutes for a presentation, followed by 5 minutes for questions. The last 10 - 15 minutes will be allocated for the lab to engage in a larger discussion about exciting new open questions in the field.