



UNIVERSITÀ
DI TRENTO

Dipartimento di
Matematica

DOTTORATO



CYCLE 38th
ORAL DEFENCE OF THE PHD THESIS

Thursday, April 30, 2026 - 3.00 pm

Department of Mathematics
Room A207 - Povo 1

The event will take place in presence and online through the ZOOM platform
To get the access codes, please contact the secretary office

Gianmarco Caldini

PhD Student in Mathematics

On smooth approximation of generalized surfaces

Abstract:

The natural question of how much smoother integral currents are with respect to their initial definition goes back to the late 1950s and to the origin of the theory with the seminal article of Federer and Fleming. I will explain how closely one can approximate both integral and mod 2 currents representing a given homology class with smooth submanifolds.

Supervisors: William Browder, Camillo De Lellis, Andrea Marchese.

CONTACTS

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