



UNIVERSITÀ  
DI TRENTO  
Dipartimento di  
Matematica

# DOTTORATO



**Friday 10 November 2023 – at 10.00 am**  
Seminar Room 1  
Department of Mathematics

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### A variation on a theorem by Fremlin for doubling Radon measures

**Abstract:**

We will start by proving a theorem by Fremlin: by assuming a fragment of Martin's Axiom, in particular Martin's Axiom for partial order with the Knaster property, then every Radon measure on a locally compact separable metric space is continuum-additive on measurable sets. Afterwards, we will prove a variation of this result: if the measure is doubling, then a weaker fragment of Martin's Axiom is needed: indeed, Martin's Axiom for sigma-linked partial orders is enough.

**Contact person:** Andrea Marchese

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*The seminar corresponds to the final exam of "Geometric Measure Theory"*

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**CONTATTI**

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