

# Recent advances on BV and Sobolev spaces in metric measure spaces

*Introduce:*

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*Interviene:*

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*Abstract:*

There are several equivalent definitions for Sobolev spaces in metric measure spaces: I will try to focus on the most general ones, explaining the relationship between curves, relaxation and integration by parts formula. If time permits, we will also give a proof of reflexivity of  $W^{1,p}$  whenever  $p > 1$  and the space is doubling.

## Seminario

**Mercoledì 6 dicembre 2017**  
**Sala Riunioni, ore 15.00**  
Via dei Musei 41 - Brescia

