

Contents

Introduction to the Notes of the School on Analysis and Geometry in Metric Spaces	1
Luigi Ambrosio, Bruno Franchi, Irina Markina, and Francesco Serra Cassano	
Geometric Inequalities on Riemannian and Sub-Riemannian Manifolds by Heat Semigroups Techniques	7
Fabrice Baudoin	
Differentiation of Measures in Metric Spaces	93
Séverine Rigot	
Sobolev Spaces in Extended Metric-Measure Spaces	117
Giuseppe Savaré	
Brief Survey on Functions of Bounded Variation (BV) in Metric Setting	277
Nageswari Shanmugalingam	
Index	305