

Sphere theorems for RCD and stratified spaces

SHOUHEI HONDA AND ILARIA MONDELLO

Abstract. We prove topological sphere theorems for $\text{RCD}(n-1, n)$ spaces which generalize Colding's results and Petersen's result to the RCD setting. We also get an improved sphere theorem in the case of Einstein stratified spaces.

Mathematics Subject Classification (2010): 53C23 (primary); 53C21 (secondary).