

**Ranjbar-Motlagh, Alireza**

**A note on the Poincaré inequality.** (English) Zbl 1037.26012  
*Stud. Math.* 154, No. 1, 1-11 (2003).

The author introduces the notion of a bounded geometry in a metric space  $(X, d)$ , where  $X$  is a set and  $d$  a metric. Let  $\mu$  be a measure. The main result of the paper is a Poincaré inequality on uniformly doubling metric spaces  $(X, d, \mu)$  with bounded geometry.

Reviewer: [Hans Triebel \(Jena\)](#)

**MSC:**

**26D10** Inequalities involving derivatives and differential and integral operators  
**46E35** Sobolev spaces and other spaces of “smooth” functions, embedding theorems, trace theorems

Cited in **2** Documents

**Keywords:**

[Sobolev spaces on metric spaces](#); [Poincaré inequality](#)

**Full Text:** [DOI](#)