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Steve - Smale* (smale@math.berkeley.edu) and **Nat Smale**. *Hodge Theory for Singular Spaces*.

It is useful to have the power of Hodge theory on spaces which are not manifolds and the measure is not uniform. A prime example of such a space is the space of images, important in the theory of pattern recognition. A Hodge decomposition result for square integrable forms on a metric space will be presented. (Received September 15, 2008)