

A uniqueness property for analytic functions on metric measure spaces

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Abstract. We give a characterization of real analytic functions only in terms of integral means over Euclidean balls. The characterization justifies introduction of a definition of analytic functions on metric measure spaces. Next we prove that analytic functions on MMS possess the following uniqueness property: *If a function vanishes on a nonempty open subset of a connected set Ω , then it vanishes on Ω .*