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A Marstrand Theorem for measures with polytope density

## Abstract

We will give a sketch of some methods used to prove classic theorems in Geometric Measure theory related to (and precursors of) Preiss rectifiability theorem. In particular we will focus on Marstrand Theorem that a measure in Euclidean space whose s-density exists and is positive finite everywhere has to be such that s is an integer and the measure has weak s tangents almost everywhere. We will state a recent theorem which generalises the first part of Marstrands theorem for a wide class of finite dimensional normed vector spaces.