## **GEOMETRIC ANALYSIS SEMINAR**

## "Fine structure of measures satisfying a PDE constraint"

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Abstract: In this talk I will present some new result concerning the structure of measure satisfying a linear PDE constraint. In 2016, in collaboration with Filip Rindler, we prove a first structural result concerning the singular part of measure subject to PDE constraint. This turned out to have several applications in GMT and in Geometric Analysis. Recently, in a joint work with Adolfo Arroyo Rabasa, Jonas Hirsch and Filip Rindler we improve upon this result proving a more precise structure on the "low" dimensional part of the measure. As a corollary we recover several known rectifiability results. In this talk I will try to give an overview of both these results and of their applications.

## Wednesday, April 17<sup>th</sup>, 2019 MIT, Room 2-131 Time: 4:00 PM

