

1126-46-137          **Nick Edelen\***, 182 Memorial Dr, Cambridge, MA 02142. *Quantitative Reifenberg for Measures.*

In joint work with Aaron Naber and Daniele Valtorta, we demonstrate a quantitative structure theorem for measures in  $R^n$  under assumptions on the Jones  $\beta$ -numbers, which measure how close the support is to being contained in a subspace. Measures with this property have arisen in several interesting scenarios: in obtaining measure estimates on the singular set of minimal surfaces; in characterizing  $L^2$ -boundedness of Calderon-Zygmund operators; and as an “analyst’s” formulation of the traveling salesman problem. (Received January 09, 2017)