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Matthew Badger* (matthew.badger@uconn.edu). *Rectifiable and purely unrectifiable measures in the absence of absolute continuity.*

This talk will survey recent progress by the speaker and R. Schul on the problem of identifying necessary and sufficient conditions for a Radon measure μ on \mathbb{R}^n to be m -rectifiable ($1 \leq m \leq n - 1$) or purely m -unrectifiable in the sense of Federer. The interesting aspect of this program is to study the rectifiability of μ without assuming an *a priori* relationship between μ and the m -dimensional Hausdorff measure as has been done in the past. (Received August 31, 2015)