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## Quantitative rectifiability of metric planes

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In Euclidean space, the relationship between rectifiability and density is well understood, as is the link between uniform rectifiability and quantitative density information. For arbitrary metric spaces, the picture is far less clear, and the corresponding Euclidean results are even false in such generality. In this talk we will discuss these quantitative relationships in the setting of metric spaces, focusing in particular on geodesic planes. Along the way, we examine spaces with quantitative bounds on local linear contractibility constants. We conclude by providing a characterization of uniformly rectifiable metric planes in terms of these quantities. This is joint work with D. Bate and R. Schul.