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Abstracts

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On the Locally Euclidean Metric Gauge

I will describe how the theory of quasiregular maps and the fundamental ideas of Yu. G. Reshetnyak in particular could be used in deciding when a given metric space is a Lipschitz manifold; we use the differential forms of Whitney, recent advances in analysis in singular spaces, and a generalization of Reshetnyak's theorem about discreteness and openness of quasiregular maps. This is joint work with Dennis Sullivan.