

POLYLIPSCHITZ FORMS, METRIC CURRENTS AND BLD-MAPS

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ABSTRACT. To study homological boundedness of spaces admitting a BLD-map from Euclidean space, we introduce polylipschitz forms. Metric currents can be seen as acting on polylipschitz forms, and this enables one to define a pull-back of a metric current by a BLD-map. This machinery, together with an equidistribution theorem for BLD-maps from Euclidean space, allows one to obtain mass estimates, leading to bounds on the dimension of the homology groups (defined by currents) of the target space in question.

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