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Moduli and Capacities in Mapping Theory

We establish module and capacity inequalities for mappings more general than quasiconformal in higher dimensions. The main results relate to the remarkable problem on estimates of measures of balls raised by M.A.Lavrentiev. Such estimates involve a modern method which rely on Q -homeomorphisms with respect to p -moduli. In particular, if $n-1 < p < n$ and the mean of Q over all infinitesimal balls centered at the origin is finite, we obtain lipschitz mappings.