

APPROXIMATION OF MAPS INTO SPHERES BY REGULOUS MAPS

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Let X be a compact real algebraic set of dimension n . A regulous map on X is a (Euclidean) continuous map which is regular when restricted to any of the subsets of some partition of X into Zariski locally closed sets. We prove that every continuous map from X into the unit n -sphere can be approximated by regulous maps. This strengthens and generalizes previously known results.