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On generalized manifolds obtained by Mardešić and Segal

Let X be a compact metric ANR-space of finite dimension. Suppose that for any $\epsilon > 0$ there exist a closed triangulated manifold M of dimension n and a surjective map $f : X \rightarrow M$ such that for any $y \in M$, the preimage of y under f has diameter less than ϵ (for short, f is an ϵ -map). Sibe Mardešić and Jack Segal proved in 1963 that X is then a generalized manifold of dimension n . We are going to show that X is resolvable, i.e. that there exists a cell-like map $F : N \rightarrow X$, where N is a closed n -manifold.