

On nerves of coverings of some acyclic spaces

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Abstract

We prove that cellular subspaces of R^n admit arbitrary small open coverings nerves of which are homeomorphic to n -dimensional cube I^n . In particular every planar compact acyclic space has arbitrarily small coverings nerves of which homeomorphic to square.

We prove that there exists acyclic with respect to Čech homology locally compact planar space nerves of all small coverings of which are non acyclic.