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Ian J Leary* (leary@math.ohio-state.edu), Department of Mathematics, The Ohio State University, 231 W 18th Avenue, Columbus, OH 43210. *A metric Kan-Thurston theorem.* Preliminary report.

We show that for every simplicial complex X there is a locally CAT(0)-cube complex T_X and a map from T_X to X which induces an isomorphism on homology. The construction has good naturality properties. (Received January 22, 2007)