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Raeyong Kim* (kimr@math.ohio-state.edu), 231 West 18th Avenue, Columbus, OH 43210.

Generalizations of the Kan-Thurston Theorem.

The Kan-Thurston theorem says that every complex X has the homology of some group G . In this talk, we study two generalizations of the Kan-Thurston Theorem : (1) If X is finite, G can be taken as a CAT(0) cubical group. (2) Every finite complex is homotopy equivalent to classifying space for proper bundles of a virtual Poincaré duality group. (Received September 17, 2013)