

# APPROXIMATE HOMOGENEITY OF $C^*$ -ALGEBRAS WITH FINITELY MANY IDEALS

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## ABSTRACT

A number of questions regarding closure properties of the class of approximately homogeneous  $C^*$ -algebras were resolved in the negative by our examples with Dădărlat. Since these examples were  $C^*$ -algebras with infinitely many ideals, it remains to be determined whether good closure properties can be found for  $C^*$ -algebras with only finitely many ideals.

We offer positive results in this direction, based on an analysis of the interplay between the order on  $K$ -theory with coefficients and the splitting maps for Künneth sequences provided by Bödigheimer.